

# REVISION NO.04

## MOBETTAH'S – LEE'S SUMMIT, MO

Thursday, 9 June 2022

Project #: MO-53LEE



This Revision forms a part of the Contract Documents and modifies the original Procurement Documents dated May 4, 2021, and consists of the attached drawing(s) as indicated below.

### CHANGES TO DRAWINGS

1. Architectural (General)
  - G001 – Occupancy Load Calculation updated. Electrical sheet index updated
  - G101 – Updated Code plan and Furniture count
2. Architectural (Shell)
  - AS111 & AS112 – Updated shear walls and drive-up window due to layout change
  - AS121 – Updated canopy over drive up window
  - AS201 – Updated exterior light location
  - AS202 – Updated canopy over drive up window
3. Architectural (TI)
  - A111 – Relocated drains/floor sinks and HSS due to layout change
  - A112 & A113 – Revised plan, ceiling and keynotes due to layout change
  - A114 – Finish plan updated with Elevations added.
  - A115 – Furniture layout updated per new plan.
  - A401 – Bathroom location updated per new layout.
  - A402 – Updated Beverage and Office elevations
  - A403 – Updated POS elevations
  - A501 – removed detail from sheet
  - A502 – Updated soffit detail
  - A513 – Updated Jalousie wall details
  - A514 – Updated wall elevation
  - A551 – Removed unused details and updated sneeze guard detail
  - A631 – Updated door schedule
4. Kitchen
  - K1 – Updated kitchen equipment per new layout
5. Structural
  - S101–shear walls, located near Grid 4, have moved two feet and five inches to the left, towards Grid 2.
  - S-102 – canopy that is along grid A between grid 3 and 5 has been extended south 25 inches. An additional post has been added at the new location of the end of the canopy
6. Mechanical / Plumbing
  - ME503, ME504, ME506, ME507, ME508, ME601, MH101, MH102 –design updated per new layout
  - PE601, PL101, PL102, PL103, PL104 – design updated per new layout
7. Electrical

- EE001 – index updated
- ES101 – keynotes updated
- EP101, EP401, EP602, EP603 – Lighting updated per new layout
- EL101, EL501, EL601 – Lighting updated per new layout
- EL602 – sheet added to set

END OF REVISION



Project Information  
Energy Code: 2018 IECC  
Project Title: MO-53LEE  
Location: Lees Summit, Missouri  
Climate Zone: 4a  
Project Type: New Construction  
Vertical Glazing / Wall Area: 8%

Construction Site: Overlagent  
Northwest Chippewa Road & Lees Summit, MO 64114  
Additional Efficiency Package(s): High-efficiency HVAC Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Building Area: Floor Area: 2706  
1-Retail / Nonresidential

Assembly	Gross Area of Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Floor 1: Slab-On-Grade Unheated (Bldg. Use 1 - Retail) (c)	240	—	—	0.750	0.540
Roof 1: Insulation Entirely Above Deck (Bldg. Use 1 - Retail)	2983	—	30.0	0.032	0.032
NORTH EFR: Wood-Framed, 16" o.c. (Bldg. Use 1 - Retail)	480	19.0	7.5	0.043	0.064
Window 1: Metal Frame with Thermal Break/Frad. Perf. Space Product ID Pending, SHGC 0.36, VT 0.60 (Bldg. Use 1 - Retail) (b)	37	—	—	0.280	0.380
NORTH BRCK: Wood-Framed, 16" o.c. (Bldg. Use 1 - Retail)	443	19.0	0.0	0.067	0.064
Window 2: Metal Frame with Thermal Break/Frad. Perf. Space Product ID Pending, SHGC 0.36, VT 0.60 (Bldg. Use 1 - Retail) (b)	180	—	—	0.280	0.380
EAST EFR: Wood-Framed, 16" o.c. (Bldg. Use 1 - Retail)	637	19.0	7.5	0.043	0.064
Door 1: Insulated Metal, Sliding (Bldg. Use 1 - Retail)	27	—	—	0.095	0.150
EAST BRCK: Wood-Framed, 16" o.c. (Bldg. Use 1 - Retail)	82	19.0	0.0	0.067	0.064
SOUTH EFR: Wood-Framed, 16" o.c. (Bldg. Use 1 - Retail)	342	19.0	7.5	0.043	0.064
Window 3: Metal Frame with Thermal Break/Frad. Perf. Space Product ID Pending, SHGC 0.36, VT 0.60 (Bldg. Use 1 - Retail) (b)	117	—	—	0.280	0.380
SOUTH BRCK: Wood-Framed, 16" o.c. (Bldg. Use 1 - Retail)	437	19.0	0.0	0.067	0.064
Window 4: Metal Frame with Thermal Break/Frad. Perf. Space Product ID Pending, SHGC 0.36, VT 0.60 (Bldg. Use 1 - Retail) (b)	216	—	—	0.280	0.380
SOUTH BRCK: Wood-Framed, 16" o.c. (Bldg. Use 1 - Retail)	477	19.0	0.0	0.067	0.064
WEST	—	—	—	—	—

Project Title: MO-53LEE  
Data Filename: P:\MOBETTAHS\MO-53LEE - Lees Summit MO1 - Project Information\03 - Reports & Code Info\MO Page 1 of 10  
Report date: 11/08/21  
SLEE Lees Summit IECC 2018.04

Envelope Compliance Certificate

Envelope Passes: Design 9% better than code

Envelope Compliance Statement  
Compliance Statement: The proposed envelope design represented in this document is consistent with the building code, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMCHECK Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

ShoeLee - BIM Tech  
Name: Title: Signature: Date:

CODE REVIEW - GENERAL NOTES

- DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
- SEE SHEET G001 FOR GENERAL CODE AND PROJECT SPECIFIC CODE INFORMATION.
- SEE SHEET G002 FOR GENERAL NOTES
- HIGHER RATED FIRE WALLS TAKE PRECEDENCE OVER LOWER RATED WALLS AND ARE TO CONTINUE THROUGH ALL SUCH INTERSECTIONS.
- SEE A100 SHEETS FOR WALL TYPE DESIGNATIONS.
- SEE A500 SHEETS FOR FIRE PROOFING DETAILS.
- SEE A600 SHEETS FOR WALL ASSEMBLIES, TOP OF WALL DETAILS, UL LISTINGS, ETC.
- ALL DOORS ON THE ACCESSIBLE ROUTE OR CIRCULATION PATH BE TESTED FOR A MAX OPENING FORCE OF 5LBS.

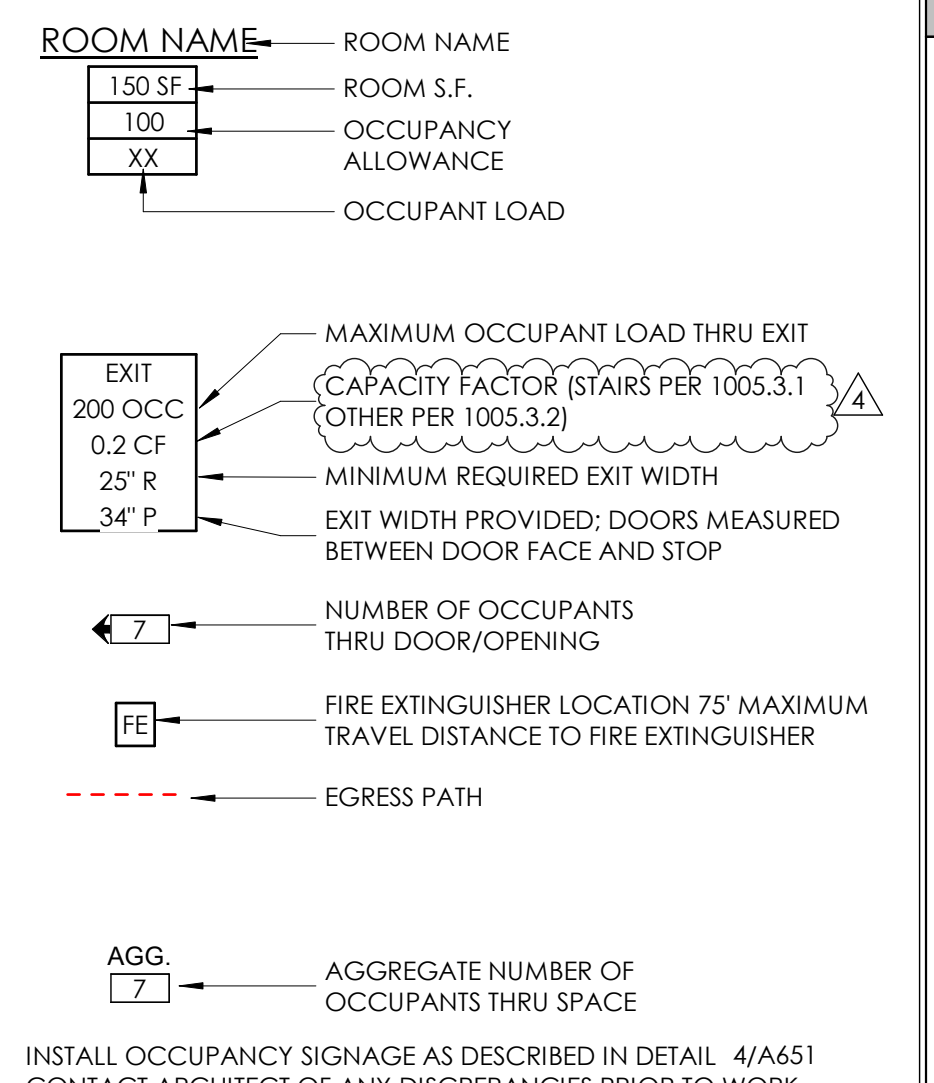
FURNITURE COUNT

TYPE	TABLE SIZE	COUNT	TOTAL NUMBER OF SEATS
INTERIOR			
1 - SEAT	30X30 TABLE	X 4	= 8 SEATS
2 - SEAT		X 3	= 6 SEATS
2 - SEAT	30X48 TABLE	X 2	= 4 SEATS
4 - SEAT		X 3	= 12 SEATS
6 - SEAT	30X48 TABLE	X 5	= 30 SEATS
LINEAR FEET OF BENCH	24 LF		= 12 SEATS
LINEAR FEET OF BOOTH	4LF X 4 = 16 LF		= 8 SEATS
INTERIOR SEAT COUNT			= 80 SEATS
EXTERIOR			
2 - SEAT	30X30 TABLE	X 0	= 0 SEATS
4 - SEAT	30X48 TABLE	X 3	= 12 SEATS
EXTERIOR SEAT COUNT			= 12 SEATS
<b>TOTAL SEAT COUNT</b>			<b>= 92 SEATS</b>
MINIMUM REQUIREMENT ACCESSIBLE SEATING (51 TO 100) = 4 SEATS REQUIRED ACCESSIBLE SEATING (INTERIOR) = 4 SEATS			

FIRE RATING LEGEND

- NON RATED
  - 1 HR FIRE BARRIER
- KEYNOTES
- ACCESSIBLE CUSTOMER TRANSACTION COUNTER
  - MAXIMUM AREA OCCUPANT LOAD SIGN. SEE 4/A651
  - PROVIDE "EMERGENCY ACCESS" KEY IN THE KNOX BOX; KNOX BOX TO BE LOCATED IN APPROVED AREA BY FIRE DEPARTMENT KEY BOX

EGRESS PLAN LEGEND



EXIT ACCESS DOORWAY CONFIGURATION (SECTION 1007.1.1)  
[EXCEPTION 2] REQUIRED DISTANCE BETWEEN INTERIOR EXITS  
MAXIMUM OVERALL DIAGONAL DIMENSION / 3  
REQUIRED DISTANCE = 23'-9.5" = (71'-4" / 3)  
PROVIDED DISTANCE = 28' - 5"

MAXIMUM DIAGONAL DIMENSION IN DINING AREA / 3  
REQUIRED DISTANCE = 18'-7" = (55' - 8.5" / 3)  
PROVIDED DISTANCE = 28' - 5"

PROJECT INFORMATION

CODE SUMMARY AND PROJECT INFORMATION:

APPLICABLE CODES AND STANDARDS  
2018 INTERNATIONAL BUILDING CODE (IBC)  
2018 INTERNATIONAL PLUMBING CODE (IPC)  
2018 INTERNATIONAL MECHANICAL CODE (IMC)  
2017 NATIONAL ELECTRICAL CODE (NEC)  
2006 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)  
2018 INTERNATIONAL FIRE CODE (IFC)  
2009 ANSI A117.1

PROJECT DESCRIPTION  
THIS PROJECT IS A SHELL BUILDING AND INTERIOR BUILT OUT FOR A RESTAURANT INCLUDING DINING SPACE, COMMERCIAL KITCHEN, RESTROOMS AND AN OFFICE.  
THIS BUILDING DOES NOT INCLUDE A FIRE SPRINKLER SYSTEM.

PROJECT AREA:  
FUTURE MOBETTAHS 2,800 SF

USE AND OCCUPANCY CLASSIFICATION (IBC CHAPTER 3)  
GROUP(S): A-2

GENERAL BUILDING HEIGHTS AND AREAS (IBC CHAPTER 5)  
CONSTRUCTION TYPE: V-B

	ALLOWABLE	ACTUAL
BUILDING HEIGHT IN FEET (Table 504.3):	40	XX
BUILDING HEIGHT IN STOREYS (Table 504.4):	1	1
AREA PER FLOOR (Table 506.2):	x	x

MIXED OCCUPANCIES: NOT APPLICABLE

FIRE RESISTIVE RATING REQUIREMENTS FOR BUILDING ELEMENTS (IBC CHAPTER 6)  
CONSTRUCTION TYPE: V-B

STRUCTURAL FRAME: 0 HR  
BEARING WALLS EXTERIOR: 0 HR  
BEARING WALLS INTERIOR: 0 HR  
NONBEARING WALLS INTERIOR: 0 HR  
FLOOR CONSTRUCTION: 0 HR  
ROOF CONSTRUCTION: 0 HR

FIRE AND SMOKE PROTECTION FEATURES (IBC CHAPTER 7)  
ALLOWABLE AREA OF OPENINGS:  
FIRE SEPARATION DISTANCE: x FEET  
OPENING PROTECTION: UNPROTECTED, NONSPRINKLERED  
ALLOWABLE AREA: 70%

FIRE PROTECTION SYSTEMS (IBC CHAPTER 9)  
AUTOMATIC SPRINKLER SYSTEM: NOT PROVIDED

ADDITIONAL REQUIREMENTS OR DESCRIPTIVE INFORMATION

MEANS OF EGRESS (IBC CHAPTER 10)  
OCCUPANT LOAD (1004): XX TOTAL OCCUPANTS (SEE OCCUPANT LOAD CALCULATIONS ON SHEET G001)

EGRESS SIZING (1005):  
STAIRWAYS = OCCUP. LOAD x 0.3 "/OCC. = XX INCHES REQUIRED = N/A INCHES PROVIDED  
OTHER EGRESS COMPONENTS = OCCUP. LOAD x 0.2 "/OCC. = XX INCHES REQUIRED = XX INCHES PROVIDED

COMMON PATH OF EGRESS TRAVEL: XXX FEET  
EXIT ACCESS TRAVEL DISTANCE: XXX FEET

PLUMBING FIXTURE REQUIREMENTS (IBC CHAPTER 29)  
SEE PLUMBING FIXTURE CALCULATIONS ON SHEET: G001

THERMAL ENVELOPE (IECC)  
STUD CAVITY INSULATION R-VALUE: R-19  
ROOF INSULATION R-VALUE: R-38  
CONTINUOUS INSULATION R-VALUE: R-7.5 WHERE IT OCCURS

EXTERIOR GLAZING INFORMATION:  
BASIS OF DESIGN PRODUCT: PPG SOLARBAN 60  
SUMMER U-FACTOR: 0.29 MINIMUM  
WINTER U-FACTOR: 0.27 Btu/(hr x sqft) MAXIMUM  
SHGC: 0.39 MAXIMUM

NOTES:  
ALL DEFERRED SUBMITTALS TO BE PROVIDED TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW A MINIMUM OF TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.  
ALL DEFERRED SUBMITTALS TO BE REVIEWED BY THE ARCHITECT PRIOR TO SUBMITTAL TO THE AUTHORITY HAVING JURISDICTION.

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sheet information

revisions:

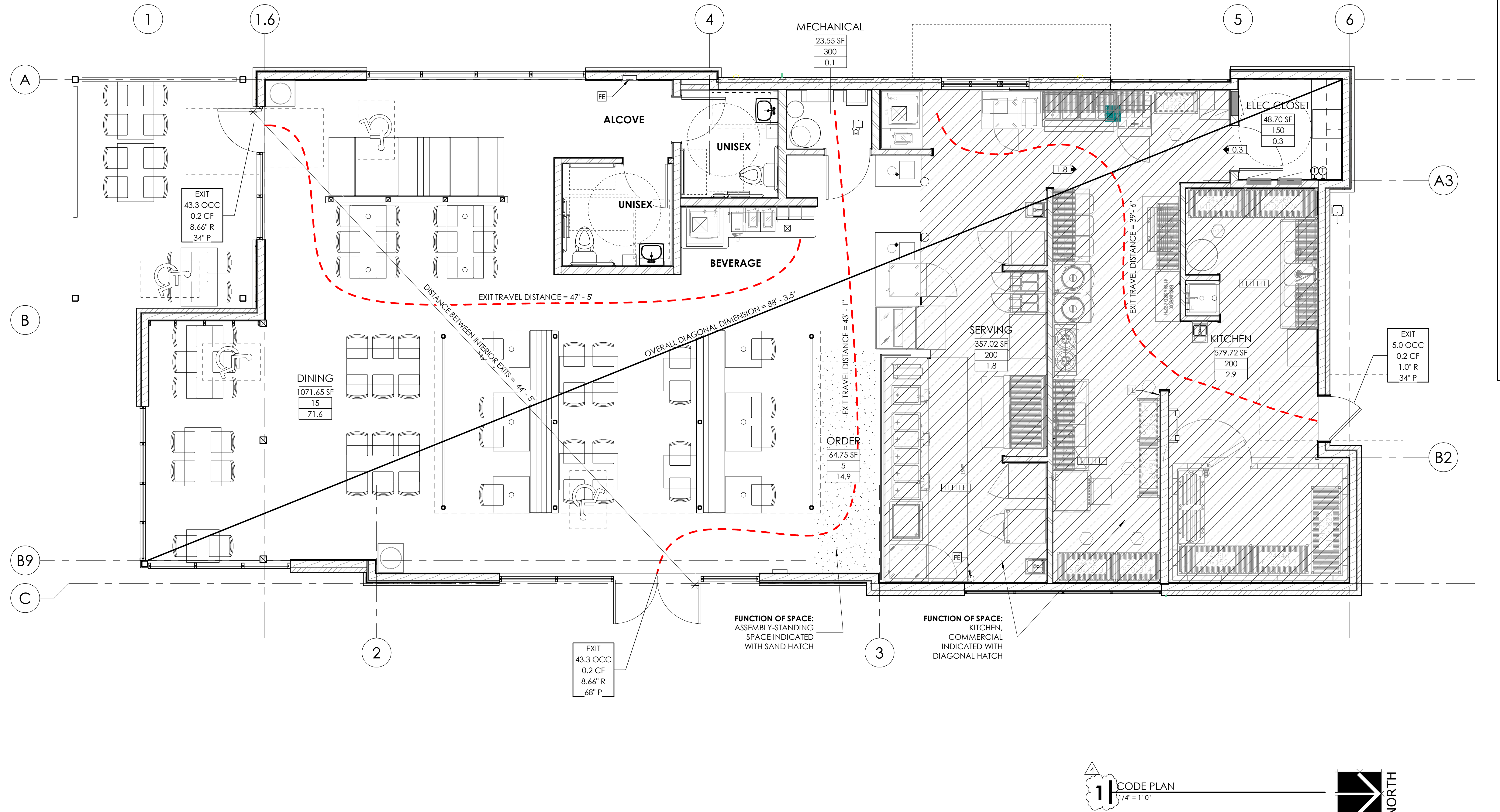
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3	REVISION 03	05-06-22
4	REVISION 04	06-07-22

date: 1-23-2022  
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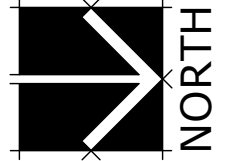
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MOBETTAHS (TI) for LEE'S SUMMIT  
520 NW Chipman Rd  
Lee's Summit, MO 64086



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



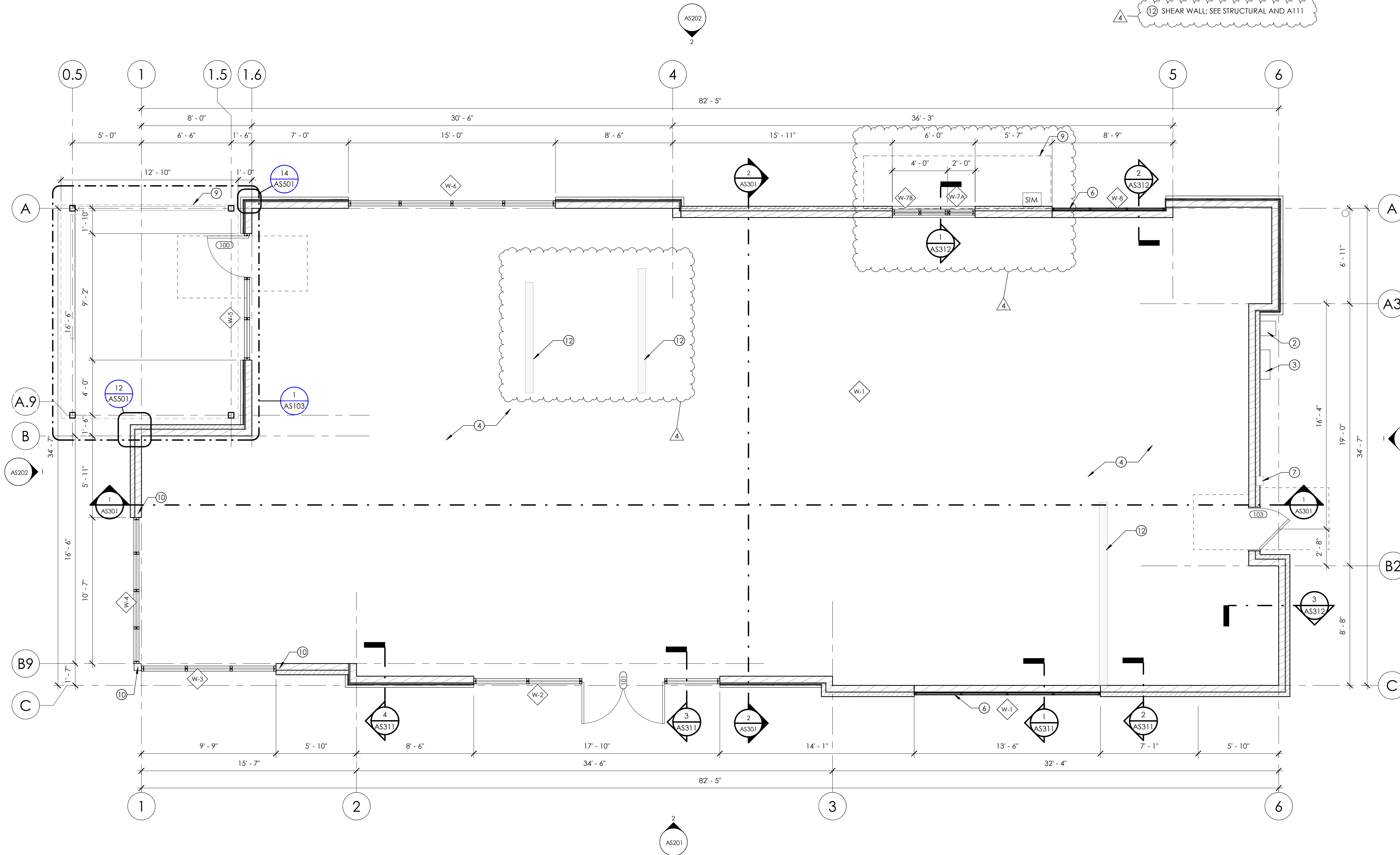


KEYNOTES

- 1 HOSE BIB - COORDINATE WITH MECHANICAL
- 2 PROPOSED LOCATION OF GAS METER - COORDINATE WITH MECHANICAL
- 3 ELECTRICAL GEAR - COORDINATE WITH ELECTRICAL
- 4 CONCRETE SLAB OVER GRAVEL BASE AND OVER VAPOR BARRIER (REFER TO SHEET A112 FOR INTERIOR IMPROVEMENTS) - COORDINATE WITH SLAB PLAN AND STRUCTURALLY
- 5 **NOT IN USE** - INTERIOR ROOF ACCESS LADDER - SEE DETAILS
- 6 2 X 2 - 1/4" DEEP VENEER GLAZING FRAME
- 7 CO2 INFILL BOX; COORDINATE WITH OWNER
- 8 ROOF DRAINS - COORDINATE WITH MECHANICAL
- 9 CANOPY ABOVE - SEE ROOF PLAN AND DETAILS ON SHEET AS503
- 10 STEEL COLUMN - COORDINATE WITH STRUCTURAL
- 11 INTERIOR WALL TO BE USED FOR SHEAR; SEE STRUCTURAL AND A112
- 12 SHEAR WALL; SEE STRUCTURAL AND A111

FLOOR PLAN GENERAL NOTES:

1. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS. REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
2. DO NOT SCALE DRAWINGS. IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION BEFORE PROCEEDING WITH CONSTRUCTION. ALL DIMENSIONS ARE TO COLUMN CENTERLINES, TO GRIDLINES OR TO FACE OF FRAMING UNLESS NOTED OTHERWISE.
3. UNLESS NOTED OTHERWISE CLEAR DIMENSIONS INDICATE DIMENSION BETWEEN FINISHES.
4. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF DISCREPANCIES IN THE DOCUMENTS, AND OF ANY FIELD CONDITIONS THAT DEVIATE FROM THE DOCUMENTS.
5. THE ARCHITECT'S APPROVAL MUST BE OBTAINED FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO CHANGES IN DIMENSIONS, DESIGN, MATERIALS, PRODUCTS, AND FINISHES. IN NO CASE MAY THE CONTRACTOR MAKE THESE CHANGES WITHOUT THE APPROVAL OF THE ARCHITECT. SHOP DRAWINGS AND OTHER SUBMITTALS ARE TO BE PRESENTED TO THE ARCHITECT FOR REVIEW PRIOR TO EXECUTION OF WORK. ALLOW APPROPRIATE TIME FOR REVIEW.
6. SEE DOOR AND WINDOW SCHEDULES FOR SIZES, TYPES, AND FINISHES, HARDWARE, ETC.
7. FOR BUILDING CODE REQUIREMENTS OR FIRE/SMOKE REQUIREMENTS, SEE 'G' SHEETS.
8. ALL FIRE RATED WALLS TO BE LABELED AS FIRE RATED. LABEL TO BE PLACED ABOVE CEILING LINE.
9. ANY COLUMN FURRING TO BE TIGHT TO COLUMN UNDO.
10. ALL CONSTRUCTION SHALL CONFORM TO AND STRICTLY COMPLY WITH ALL APPLICABLE CODES, COVENANTS, RESTRICTIONS, AND OTHER REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION OVER THE PROJECT.
11. IN NO EVENT SHALL THE CONTRACTOR SUBMIT A STANDARD CONSTRUCTION DETAIL FOR A DETAIL SPECIFIED IN THESE DOCUMENTS WITHOUT THE APPROVAL IN WRITING FROM THE ARCHITECT. THE CONTRACTOR SHALL BRING ALL WORK INTO CONFORMITY WITH THE CONSTRUCTION DOCUMENTS, AS THE ARCHITECT ORDERS, BEFORE APPROVAL OF THAT PORTION OF THE PROJECT WILL BE GRANTED.
12. CONTRACTOR TO COORDINATE ALL FLOOR PENETRATIONS WITH ALL TRADES.
13. COORDINATE WITH ELECTRICAL DRAWINGS FOR POWER, DATA, AND OTHER SYSTEM LOCATIONS AND REQUIREMENTS.
14. THE FURNITURE AND OTHER F.F.E. SHOWN ON DRAWINGS IS SCHEMATIC AND IS ONLY TO BE USED FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF ELECTRICAL OUTLETS AND OTHER NEEDS WITH THE OWNER AND ARCHITECT, PRIOR TO INSTALLATION.



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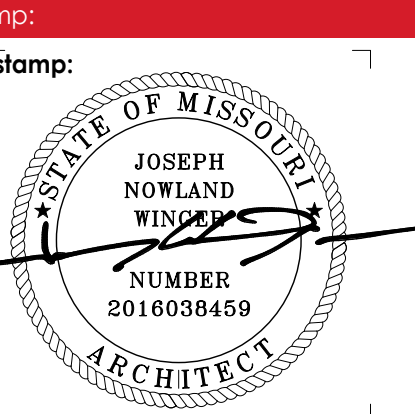
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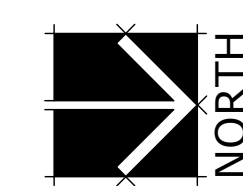
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sheet number:  
**MO-53 LEE - LEE'S SUMMIT**  
 for  
**MOBETTAH'S (SHELL)**  
 NORTHWEST CHIPMAN ROAD & NORTHWEST WARD ROAD  
 LEE'S SUMMIT, MO, USA

1 LEVEL 1 - SHELL PLAN  
 1/4" = 1'-0"



THIS SHEET DESCRIBES THE CORE AND SHELL FOR THIS PROJECT; COORDINATE WITH SHEET A112 AS FOR INTERIOR IMPROVEMENTS

sheet number:  
**AS112**

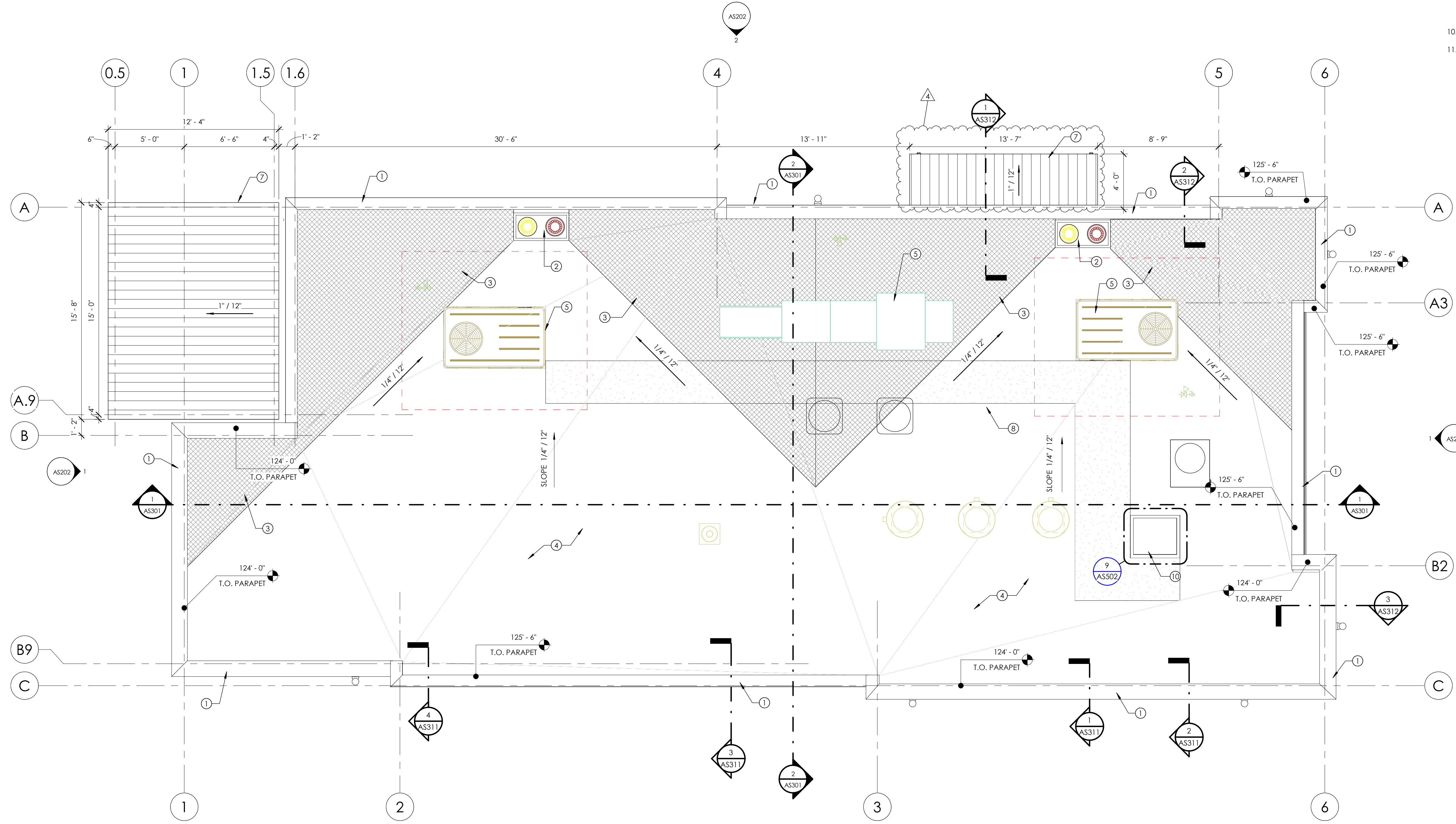
sheet title:  
**LEVEL 1 SHELL PLAN**

KEYNOTES

- 1 PRE-FINISHED METAL PARAPET CAP
- 2 ROOF DRAIN - COORDINATE WITH MECHANICAL
- 3 TAPERED CRICKET INSULATION
- 4 SINGLE-PLY ROOF MEMBRANE - RUN CONTINUOUS OVER TOP OF PARAPET UNDERNEATH COPING
- 5 ROOF TOP EQUIPMENT; COORDINATE WITH MECHANICAL
- 6 LOCKABLE EXTERIOR ROOF ACCESS LADDER - SEE DETAILS
- 7 WELDED STEEL CANOPY STRUCTURE (PAINTED) W/ PREFINISHED 1" CORRUGATED METAL ROOF (WAVE PANEL) - COORDINATE WITH STRUCTURAL
- 8 TRAFFIC MEMBRANE - LAYOUT SHOWN IS CONCEPTUAL ONLY - PROVIDE PATHWAY AS REQUIRED TO ACCESS AND SERVICE ALL ROOF TOP EQUIPMENT
- 9 ANGLE SUPPORT WITH SHAPED PLATES PER STRUCTURAL
- 10 36" x 30" ROOF ACCESS HATCH

ROOF PLAN GENERAL NOTES

1. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS. REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
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10. COORDINATE PENETRATION LOCATIONS FOR EQUIPMENT INSIDE BUILDING W/ MECHANICAL, ELECTRICAL, & PLUMBING.
11. PROVIDE CRICKETING AS REQUIRED TO REDIRECT WATER FLOW AROUND ALL ROOFTOP EQUIPMENT AND PREVENT ANY POOLING OF WATER, NOT OPTIONAL.



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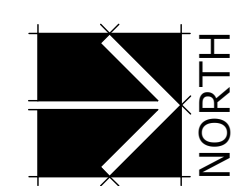
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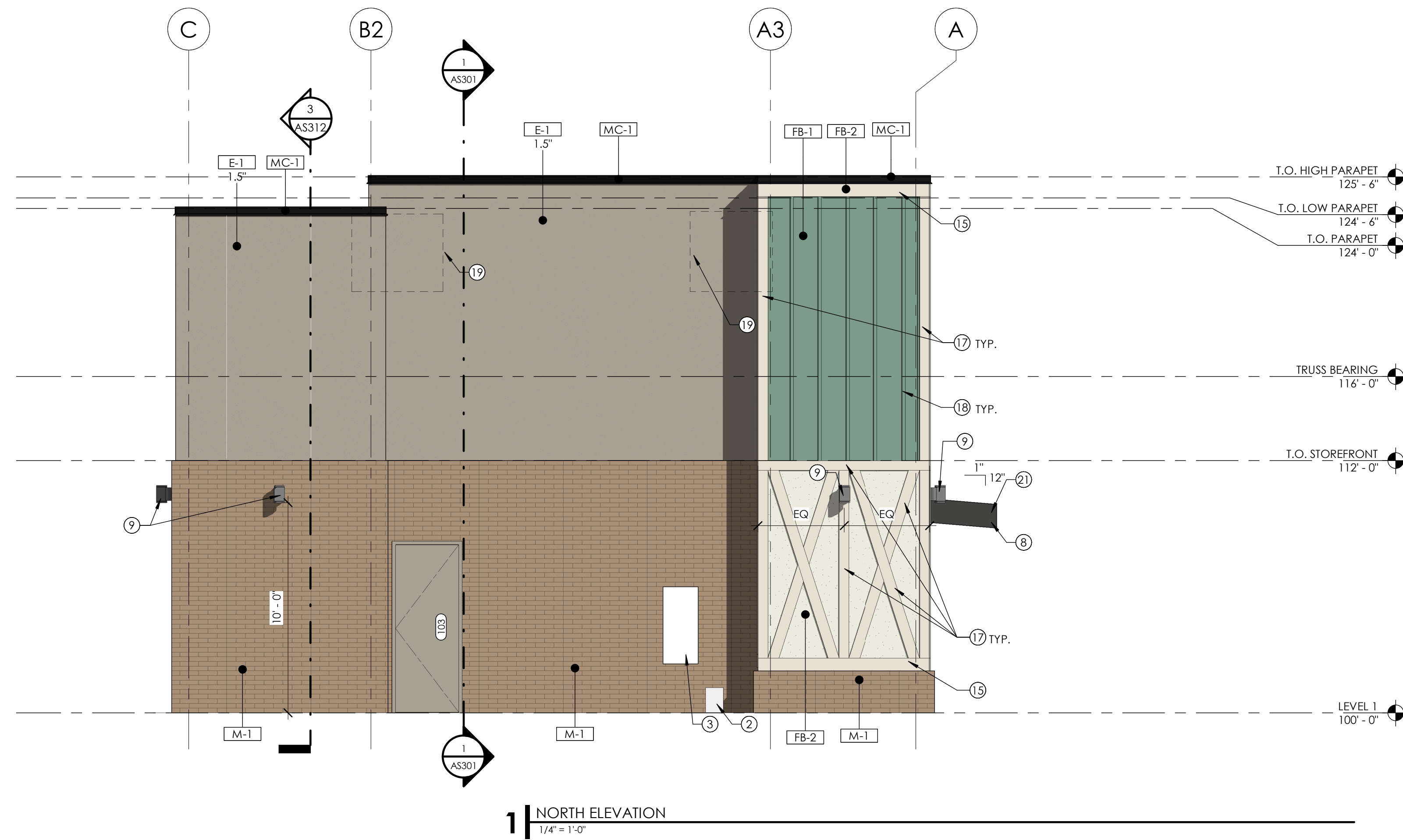
**MO-53 LEE - LEE'S SUMMIT**  
 for  
**MOBETTAH'S (SHELL)**  
 NORTHWEST CHIPMAN ROAD & NORTHWEST WARD ROAD  
 LEE'S SUMMIT, MO, USA

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



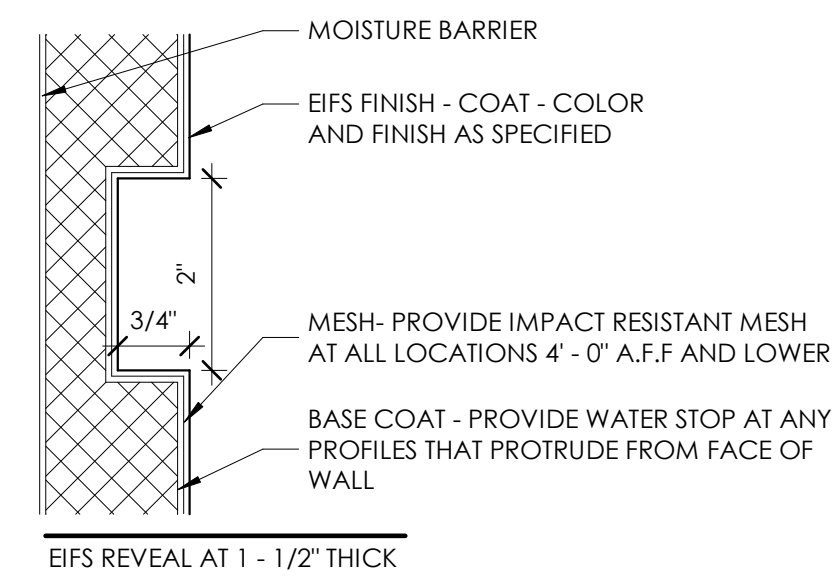
sheet title: ROOF PLAN

sheet number: AS121



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

MATERIAL SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER	PATTERN	COLOR	SIZE	FINISH	COMMENTS
AL-1	ALUMINUM STOREFRONT SYSTEM			EXTRA DARK BRONZE	2X4 1/2"		
E-1	EIFS	SHERWIN WILLIAMS		SW 7045 INTELLECTUAL GRAY			
EC-1	EXPOSED CONCRETE FOUNDATION WALL			NATURAL CONCRETE			PROVIDE PLASTER FINISH AT ALL EXPOSED CONCRETE FOUNDATION WALLS
FB-1	FIBER CEMENT BOARD	SHERWIN WILLIAMS		SW 9041 PARISIAN PATINA			
FB-2	FIBER CEMENT BOARD	SHERWIN WILLIAMS		SW 7570 EGRET WHITE			
GL-1	1" INSULATED - LOW E - CLEAR GLASS	PPG SOLARBAN 60		CLEAR			
GL-1T	1" INSULATED - LOW E - TEMPERED CLEAR GLASS	PPG SOLARBAN 60		CLEAR			
GL-3	1" INSULATED - TINTED SPANDREL GLASS	PPG SOLARBAN 60		WARM GRAY			
GL-3T	1" INSULATED - TINTED SPANDREL GLASS	PPG SOLARBAN 60		WARM GRAY			
M-1	BRICK VENEER	AMCOR	1/2 STACKING BOND	TUMBLEWEED	4" X 16"		MASONRY
MC-1	PREFINISHED METAL CAP			COLOR TO BE MBCI MIDNIGHT BRONZE			
P-2	PAINT	SHERWIN WILLIAMS		SW 7046 ANONYMOUS			
P-3	PAINT	SHERWIN WILLIAMS		MATCH 7069 IRO ORE			GALVANIZED AND PAINTED
P-4	PAINT	SHERWIN WILLIAMS		SW 9041 PARISIAN PATINA			
P-5	PAINT	SHERWIN WILLIAMS		SW 7570 EGRET WHITE			GALVANIZED AND PAINTED

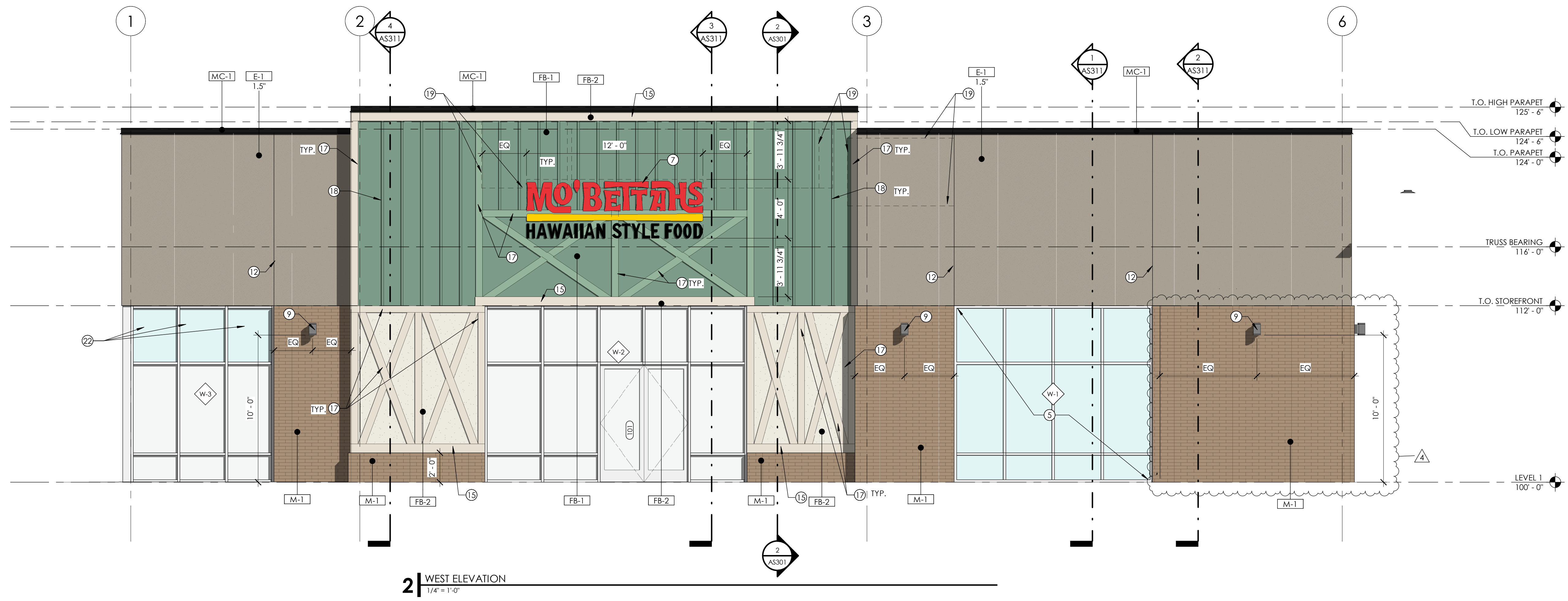


**EXTERIOR ELEVATION GENERAL NOTES**

- REFER TO THE MATERIAL AND FINISH SCHEDULES ON SHEET A201 FOR FURTHER INFORMATION.
- CONTRACTOR TO LEAVE A 1/2" GAP BETWEEN ALL DISSIMILAR MATERIAL TYP. TO BE FILLED WITH BACKER ROD AND SEALANT, COLOR AS SELECTED.
- ALL EXPOSED EXTERIOR STEEL TO BE GALVANIZED AND PAINTED (I.E. LINTELS, ETC.).
- CONTRACTOR TO PAINT ALL VENT PIPES, EXHAUST FANS AND OTHER ROOF EQUIPMENT AND PENETRATIONS THAT ARE VISIBLE FROM THE SURROUNDING BUILDING'S STREET FRONTAGE.
- SEE ELECTRICAL DRAWINGS FOR EXTERIOR POWER LOCATIONS, LIGHTING, HORN STROBES, CARD READERS, ETC.
- SEE PLUMBING DRAWINGS FOR DOWNSPOUT NOZZLE, HOSE BIB, AND FDC CONNECTION LOCATIONS, ETC.
- ROOFTOP EQUIPMENT IS SHOWN DASHED.

**KEYNOTES**

- HOSE BIB - COORDINATE WITH MECHANICAL
- PROPOSED LOCATION OF GAS METER - COORDINATE WITH MECHANICAL
- ELECTRICAL GEAR - COORDINATE WITH ELECTRICAL
- NOT IN USE**
- 2 X 2 - 1/4" DEEP VENEER GLAZING FRAME
- ROOF DRAINS - COORDINATE WITH MECHANICAL
- NEW BUILDING SIGNAGE
- STEEL CANOPY STRUCTURE GALVANIZED AND PAINTED
- WALL MOUNTED LIGHTING - COORDINATE WITH ELECTRICAL
- LIGHTING MOUNTED WITHIN CANOPY FRAMING - COORDINATE WITH ELECTRICAL
- BRICK CONTROL JOINT - COORDINATE WITH STRUCTURAL
- EIFS REVEAL - SEE DETAIL
- DASHED LINE INDICATES EQUIPMENT ON ROOF BEYOND - COORDINATE WITH MECHANICAL
- ALL FIBER BOARD TRIM TO BE 1X6 UNLESS NOTED OTHERWISE
- 1X8 FIBER BOARD TRIM
- NOT USED**
- 1X6 FIBER BOARD TRIM TYPICAL
- VERTICAL 1.75" X 3/4" FIBER BOARD TRIM @ 16" O.C.
- DASHED LINE INDICATES EQUIPMENT ON ROOF BEYOND - COORDINATE WITH MECHANICAL
- RAILING PER AS103; PAINTED
- PREFINISHED 1" CORRUGATED METAL ROOF (WAVE PANEL); COLOR TO BE MBCI EVERGLADE
- SCHEDULED SPANDREL GLAZING PANEL



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

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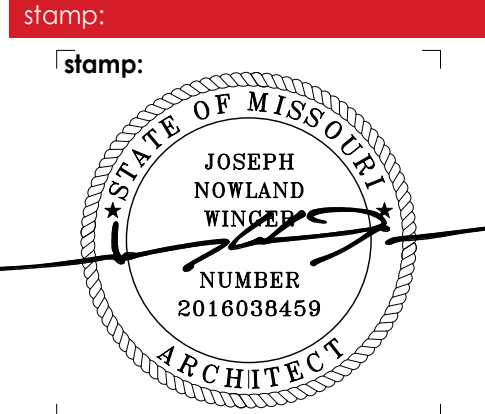
revisions:  $\Delta$

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1	REVISION 01	03-11-22
2	REVISION 02	04-06-22
4	REVISION 04	06-07-22

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sheet number:  
**MO-53 LEE - LEE'S SUMMIT**  
for:  
**MOBETTAH'S (SHELL)**  
NORTHWEST CHIPMAN ROAD & NORTHWEST WARD ROAD  
LEE'S SUMMIT, MO, USA

sheet title:  
**EXTERIOR ELEVATIONS**

sheet number:  
**AS201**



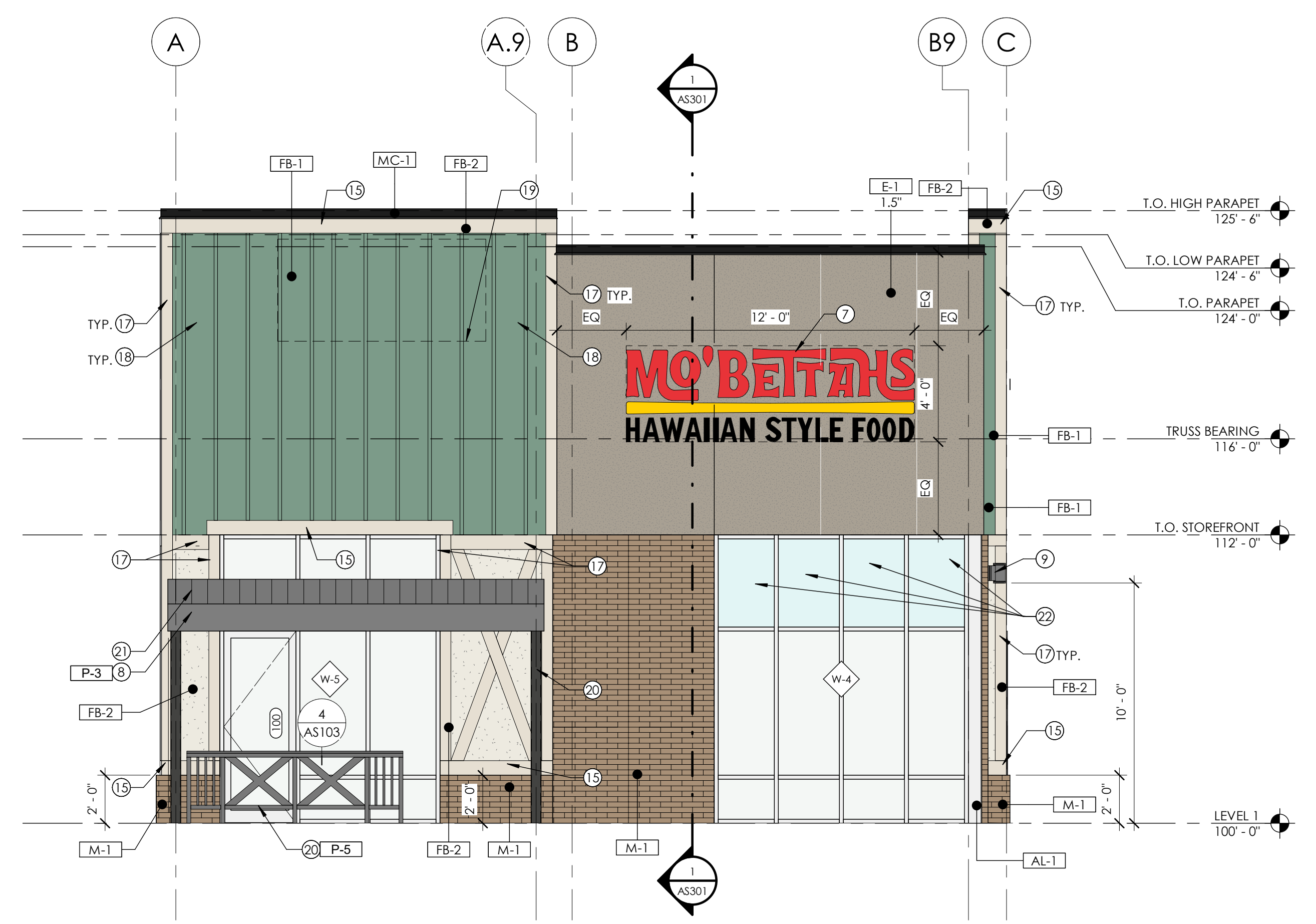
MATERIAL SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER	PATTERN	COLOR	SIZE	FINISH	COMMENTS
AL-1	ALUMINUM STOREFRONT SYSTEM			EXTRA DARK BRONZE	2X4 1/2"		
E-1	EFS	SHERWIN WILLIAMS		SW 7045 INTELLECTUAL GRAY			
EC-1	EXPOSED CONCRETE FOUNDATION WALL			NATURAL CONCRETE			PROVIDE PLASTER FINISH AT ALL EXPOSED CONCRETE FOUNDATION WALLS
FB-1	FIBER CEMENT BOARD	SHERWIN WILLIAMS		SW 9041 PARISIAN PATINA			
FB-2	FIBER CEMENT BOARD	SHERWIN WILLIAMS		SW 7570 EGRET WHITE			
GL-1	1" INSULATED - LOW E - CLEAR GLASS	PPG SOLARBAN 60		CLEAR			
GL-1T	1" INSULATED - LOW E - TEMPERED CLEAR GLASS	PPG SOLARBAN 60		CLEAR			
GL-3	1" INSULATED - TINTED SPANDREL GLASS	PPG SOLARBAN 60		WARM GRAY			
GL-3T	1" INSULATED - TINTED TEMPERED SPANDREL GLASS	PPG SOLARBAN 60		WARM GRAY			
M-1	BRICK VENEER	AMCOR	1/2 STACKING BOND	TUMBLEWEED	4" X 16"		MASONRY
MC-1	PREFINISHED METAL CAP			COLOR TO BE MCCI MIDNIGHT BRONZE			
P-2	PAINT	SHERWIN WILLIAMS		SW 7046 ANONYMOUS			
P-3	PAINT	SHERWIN WILLIAMS		MATCH 7069 IRO ORE			GALVANIZED AND PAINTED
P-4	PAINT	SHERWIN WILLIAMS		SW 9041 PARISIAN PATINA			
P-5	PAINT	SHERWIN WILLIAMS		SW 7570 EGRET WHITE			GALVANIZED AND PAINTED

**EXTERIOR ELEVATION GENERAL NOTES**

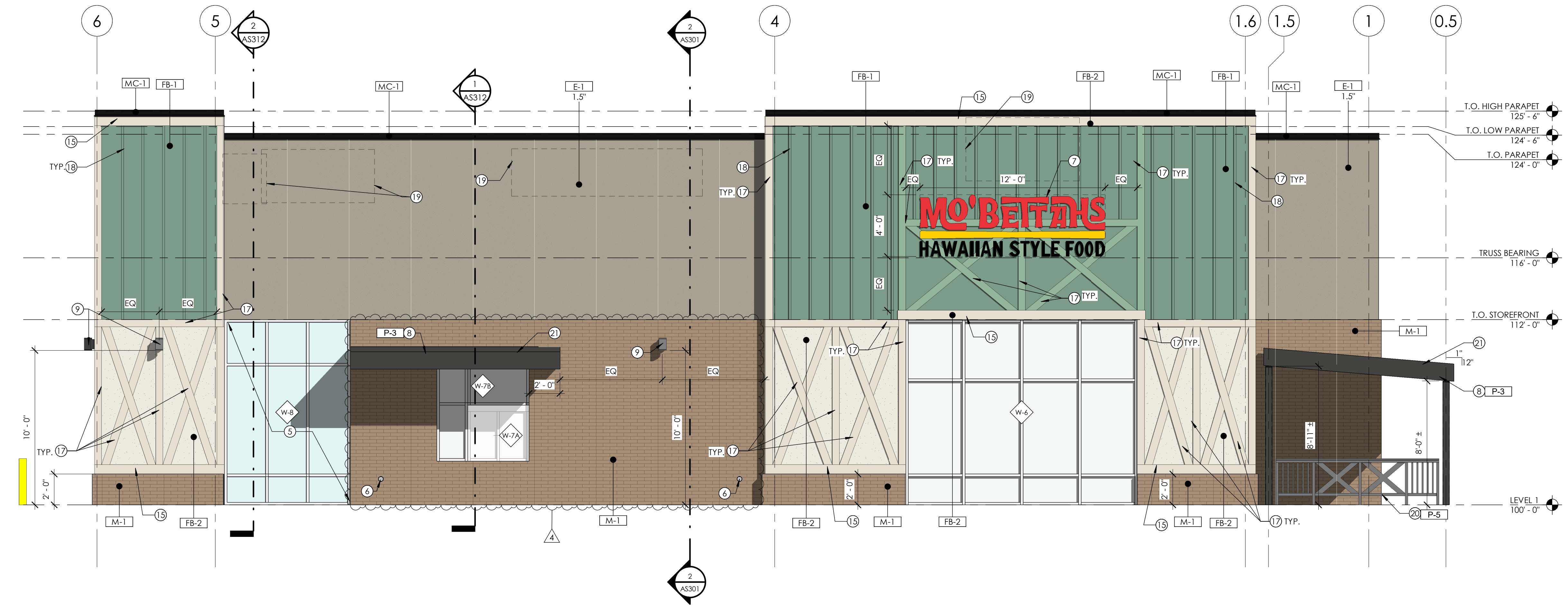
- REFER TO THE MATERIAL AND FINISH SCHEDULES ON SHEET A201 FOR FURTHER INFORMATION.
- CONTRACTOR TO LEAVE A 1/2" GAP BETWEEN ALL DISSIMILAR MATERIAL TYP. TO BE FILLED WITH BACKER ROD AND SEALANT, COLOR AS SELECTED.
- ALL EXPOSED EXTERIOR STEEL TO BE GALVANIZED AND PAINTED (I.E. LINTELS, ETC.).
- CONTRACTOR TO PAINT ALL VENT PIPES, EXHAUST FANS AND OTHER ROOF EQUIPMENT AND PENETRATIONS THAT ARE VISIBLE FROM THE SURROUNDING BUILDING'S STREET FRONTAGE.
- SEE ELECTRICAL DRAWINGS FOR EXTERIOR POWER LOCATIONS, LIGHTING, HORN STROBES, CARD READERS, ETC.
- SEE PLUMBING DRAWINGS FOR DOWNSPOUT NOZZLE, HOSE BIB, AND FDC CONNECTION LOCATIONS, ETC.
- ROOFTOP EQUIPMENT IS SHOWN DASHED.

**KEYNOTES**

- HOSE BIB - COORDINATE WITH MECHANICAL
- PROPOSED LOCATION OF GAS METER - COORDINATE WITH MECHANICAL
- ELECTRICAL GEAR - COORDINATE WITH ELECTRICAL
- NOT IN USE**
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- 1X8 FIBER BOARD TRIM
- NOT USED**
- 1X6 FIBER BOARD TRIM TYPICAL
- VERTICAL 1.75" X 3/4" FIBER BOARD TRIM @ 16" O.C.
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- SCHEDULED SPANDREL GLAZING PANEL



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



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

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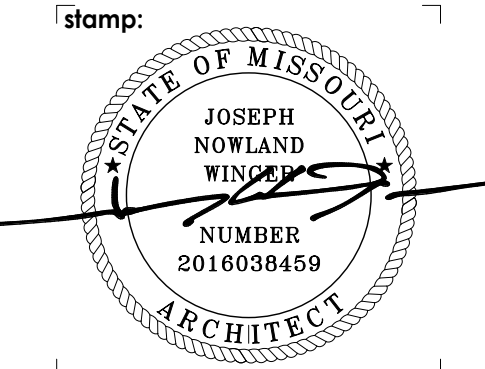
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**MO-53 LEE - LEE'S SUMMIT**  
for  
**MOBEITAH'S (SHELL)**  
NORTHWEST CHIPMAN ROAD & NORTHWEST WARD ROAD  
LEE'S SUMMIT, MO, USA

sheet title:  
**EXTERIOR ELEVATIONS**

sheet number:  
**AS202**

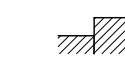
**DIMENSION NOTES**

- ALL PLAN DIMENSIONS, UNLESS OTHERWISE NOTED, ARE TO:
  - COLUMN GRID ON CENTERLINES.
  - FACE OF GYP. BD. OR SHEATHING
  - FACE OF CONCRETE.
- DOOR LOCATIONS NOT DIMENSIONED ARE:
  - JAMB FACE 4" FROM FACE OF STUD.
  - CENTERLINE OF DOOR ON CENTERLINE OF ROOM OR CORRIDOR.
- NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE DIMENSIONS; DETAILS OVER SMALLER SCALE DRAWINGS.
- "FINISH FLOOR" REFERS TO TOP OF CONCRETE SLABS. FOR DEPRESSED FLOORS AND CURBS, SEE STRUCTURAL DRAWINGS.
- VERIFY ALL ROUGH-IN, CONCRETE PAD, OR PLATFORM DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS PROJECT, OR BY OTHERS.
- FINISHED FLOOR ELEVATIONS ARE TO TOP OF CONCRETE OR GYPCRETE, UNLESS NOTED OTHERWISE.
- CEILING HEIGHT DIMENSIONS ARE TO FINISHED SURFACES, UNLESS NOTED OTHERWISE.

**SLAB PLAN GENERAL NOTES**

- ARCHITECTURAL SLAB PLANS SHALL DETERMINE SLAB EDGES; NOTIFY ARCHITECT OF ANY DETAILS INCONSISTENT WITH BUILT CONDITIONS PRIOR TO WORK.
- CONTRACTOR TO COORDINATE THE LOCATION OF ALL FLOOR DRAINS AND FLOOR SINKS WITH PLUMBING DRAWINGS AND KITCHEN DRAWINGS.
- CONTRACTOR TO COORDINATE THE LOCATION OF ALL ROOF DRAINS IN THE FIELD PRIOR TO WORK; NOTIFY ARCHITECT OF ANY DETAILS INCONSISTENT WITH BUILT CONDITIONS PRIOR TO WORK.
- CONTRACTOR TO COORDINATE THE LOCATION OF ALL FLOOR OUTLETS WITH OWNER, ARCHITECT AND ELECTRICAL DRAWINGS.
- INSTALL VAPOR BARRIER UNDER SLAB ON GRADE TO MATCH EXISTING.
- CONCRETE FOUNDATION WALLS RETAINING EARTH TO RECEIVE TWO COATS OF BITUMINOUS DAMP PROOFING MATERIAL

**STEP IN SLAB**



**KEYNOTES**

- APPROXIMATE LOCATION OF FLOOR SINK; COORDINATE WITH PLUMBING - DO NOT SLOPE TO THE SINK OWNER TOLERANCE: SET FLUSH OR UP TO MAXIMUM 1/8" ABOVE FINISH FLOOR.
- APPROXIMATE LOCATION OF FLOOR DRAIN; COORDINATE WITH PLUMBING - DO NOT SLOPE TO THE DRAIN OWNER TOLERANCE: SET FLUSH OR UP TO MAXIMUM 1/8" ABOVE FINISH FLOOR.
- APPROXIMATE LOCATION OF FLOOR TROUGH; COORDINATE WITH PLUMBING DRAWINGS
- INTERIOR CONCRETE SLAB ON GRADE PER AS111
- INTERIOR FACE OF STUD
- APPROXIMATE LOCATION OF MOP SINK; COORDINATE WITH PLUMBING
- KEYNOTE REMOVED - NOT IN USE
- FLOOR SINK INSTALLED WITHIN BASE CABINET; PER DETAIL 1/A511
- 4" VERTICAL CONDUIT FROM UNDERSLAB STUBBED OUT IN FRONT OF WALL (WITHIN BASE CABINET) COORDINATE WITH PLUMBING; CONDUITS SHALL NOT RUN THRU CONCRETE FOUNDATION WALLS. COORDINATE WITH SAVORY CONSTRUCTION MANAGER PRIOR TO WORK.
- HSS 3"x3"x3/16" WITH STEEL BASE PLATE ANCHORED INTO CONCRETE FOR PARTIAL HEIGHT WALL SUPPORT; COORDINATE WITH DETAIL 4/A613



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**revisions:**

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**date:** 1-23-2022

**project number:** MO-53LEE

**project status:** ISSUED FOR CONSTRUCTION

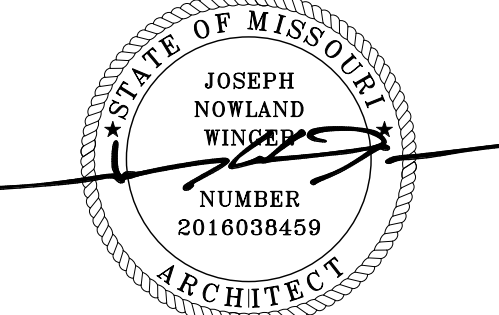
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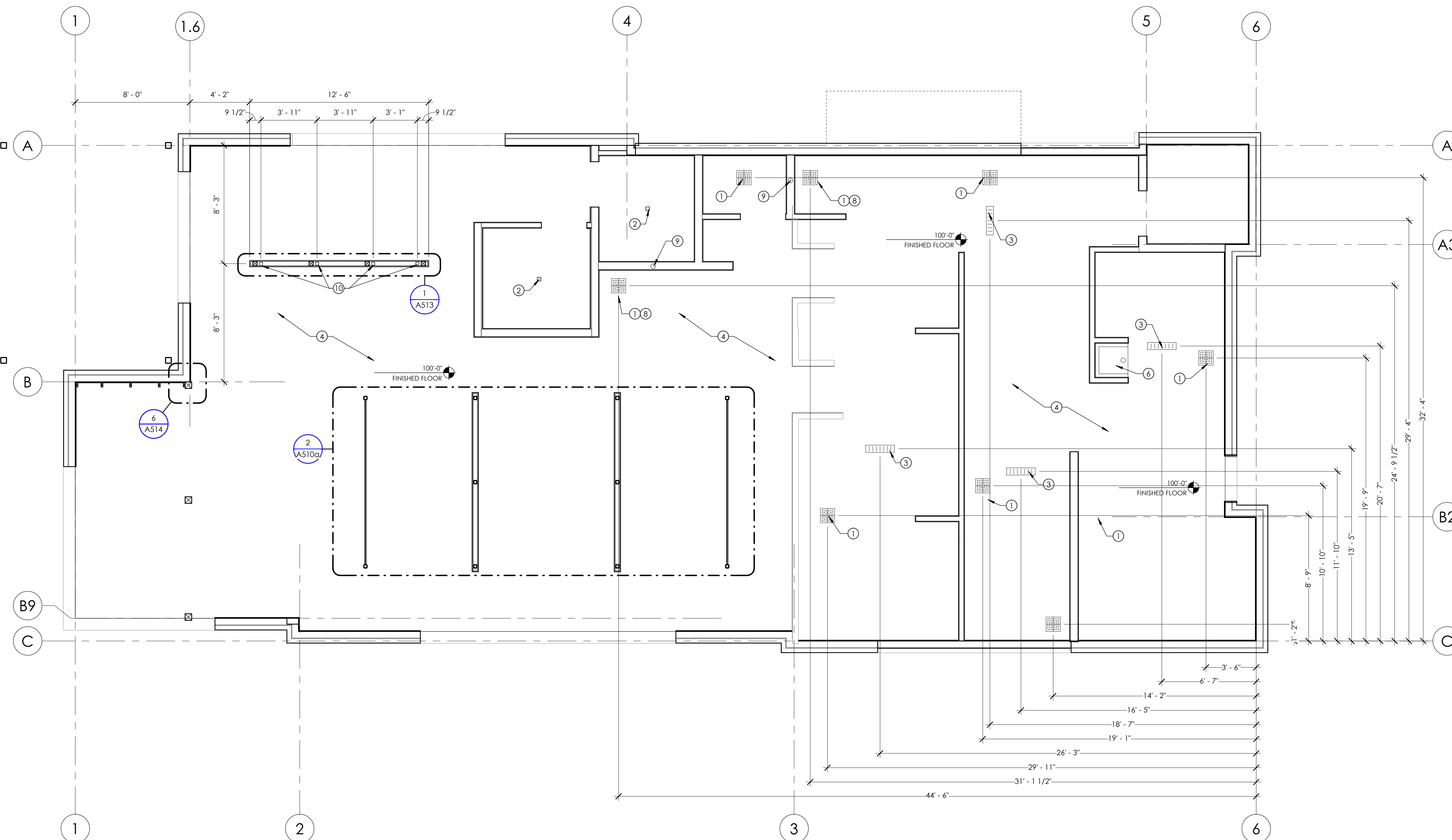
**sheet number:**

**MOBETTAHS (TI)**  
for  
**LEE'S SUMMIT**  
520 NW Chipman Rd  
Lee's Summit, MO 64086

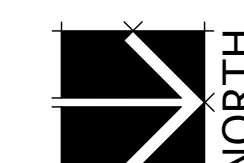
**sheet number:**

**A111**  
sheet title:  
**SLAB PLAN**

THIS SHEET DESCRIBES INTERIOR IMPROVEMENTS FOR THIS PROJECT; COORDINATE WITH SHEET AS111 AS OR THE CORE AND SHELL

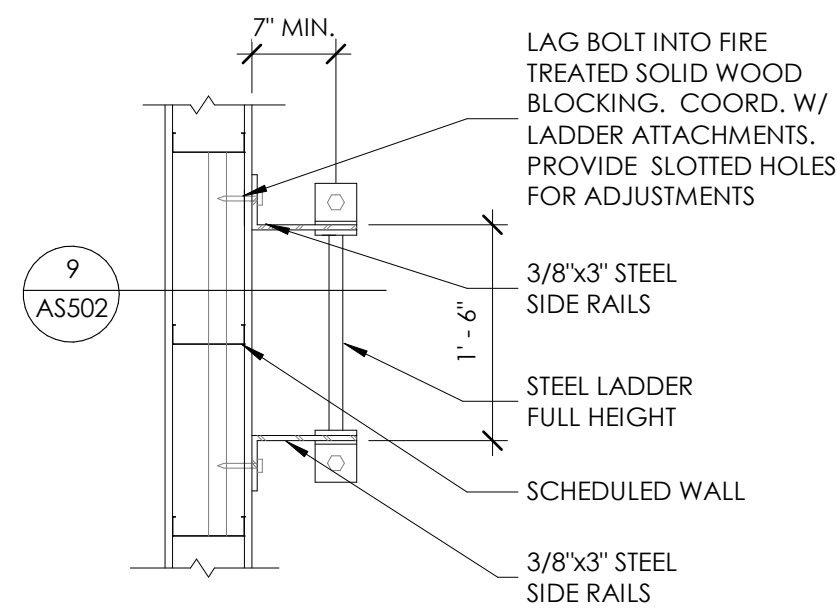


**1** SLAB PLAN  
1/4" = 1'-0"



**sheet number:**

**A111**



**2** ROOF LADDER PLAN  
3/4" = 1'-0"

**1** KEYNOTES

- 1 WALL MOUNTED CLASS "K" FIRE EXTINGUISHER; COORDINATE WITH EQUIPMENT SHEETS, CONFIRM LOCATION WITH FIRE MARSHALL.
- 2 MOP SINK; COORDINATE WITH PLUMBING DRAWINGS AND EQUIPMENT SHEETS
- 3 2A108C FIRE EXTINGUISHER IN SEMI-RECESSED CABINET; COORDINATE WITH EQUIPMENT SHEETS; SEE DETAIL, CONFIRM LOCATION WITH FIRE MARSHALL, CONTINUE RATING BEHIND CABINET PER DETAIL 5/A501
- 4 4" VERTICAL CONDUIT FROM UNDERSLAB STUBBED OUT IN FRONT OF WALL (WITHIN BASE CABINET); COORDINATE WITH PLUMBING; CONDUITS SHALL NOT RUN THRU CONCRETE FOUNDATION WALLS, COORDINATE WITH SAVORY CONSTRUCTION MANAGER PRIOR TO WORK.
- 5 LIGHTING CONTROL PANEL; COORDINATE WITH ELECTRICAL
- 6 ELECTRICAL CONTROL PANELS; COORDINATE WITH ELECTRICAL
- 7 CLEAR-HOLD TO-DIMENSION TO INTERIOR FACE OF PONY WALL
- 8 WATER SOFTENER; COORDINATE WITH EQUIPMENT SHEETS AND PLUMBING, COORDINATE WITH PLUMBING & ELECTRICAL
- 9 WATER HEATER; COORDINATE WITH EQUIPMENT SHEETS; SEE PLUMBING
- 10 BULK CO2 TANK; COORDINATE WITH EQUIPMENT SHEETS AND PLUMBING
- 11 SYRUP RACK (BIB "BAG IN BOX"); COORDINATE WITH EQUIPMENT, PLUMBING AND ELECTRICAL
- 12 WATER FILTER; COORDINATE WITH EQUIPMENT, PLUMBING AND ELECTRICAL
- 13 A/V RACK ABOVE LOCKERS; COORDINATE WITH ELECTRICAL
- 14 WALL MOUNTED TV; COORDINATE WITH ELECTRICAL; PROVIDE MIN 3'-0" W X 3'-0" BLOCKING, CENTERED ON TV; BOTTOM OF TV MOUNTED AT 84" A.F.F.
- 15 CO2 FILL BOX; COORDINATE WITH OWNER
- 16 PROVIDE BLOCKING IN WALL AS REQUIRED FOR RESTROOM GRAB BARS (INDICATED WITH DASHED LINE)
- 17 PROPOSED GAS METER LOCATION - COORDINATE WITH UTILITY PROVIDER & PLUMBING DRAWINGS
- 18 ELECTRICAL EQUIPMENT - COORDINATE WITH ELECTRICAL DRAWINGS
- 19 AREA OF ROOF DRAINS; HOLD FURRING STUDS AS TIGHT AS POSSIBLE
- 20 EXTERIOR METAL CANOPY; COORDINATE WITH STRUCTURAL AND AS112
- 21 INTERIOR WALL TO BE USED FOR SHEAR; SEE STRUCTURAL

**DIMENSION NOTES**

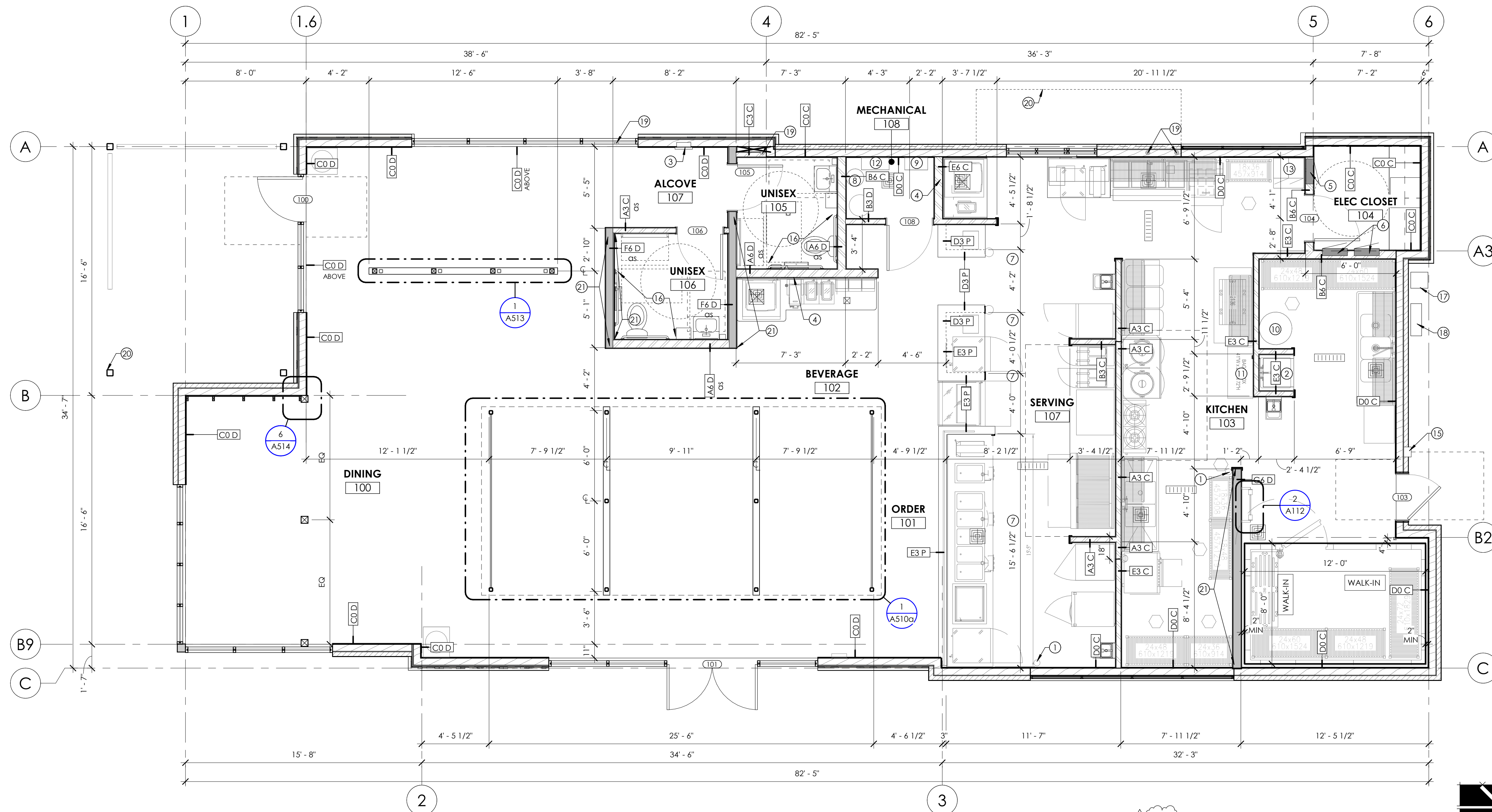
1. ALL PLAN DIMENSIONS, UNLESS OTHERWISE NOTED, ARE TO:
  - A. COLUMN GRID ON CENTERLINES.
  - B. FACE OF GYP. BD. OR SHEATHING
  - C. FACE OF CONCRETE.
2. DOOR LOCATIONS NOT DIMENSIONED ARE:
  - A. JAMB FACE 4" FROM FACE OF STUD.
  - B. CENTERLINE OF DOOR ON CENTERLINE OF ROOM OR CORRIDOR.
3. NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE DIMENSIONS; DETAILS OVER SMALLER SCALE DRAWINGS.
4. "FINISH FLOOR" REFERS TO TOP OF CONCRETE SLABS. FOR DEPRESSED FLOORS AND CURBS, SEE STRUCTURAL DRAWINGS.
5. VERIFY ALL ROUGH-IN, CONCRETE PAD, OR PLATFORM DIMENSIONS FOR EQUIPMENT ELEVATIONS IN THIS PROJECT, OR BY OTHERS.
6. FINISHED FLOOR ELEVATIONS ARE TO TOP OF CONCRETE OR GYPCRETE, UNLESS NOTED OTHERWISE.
7. CEILING HEIGHT DIMENSIONS ARE TO FINISHED SURFACES, UNLESS NOTED OTHERWISE.

**FIRE RATING LEGEND**

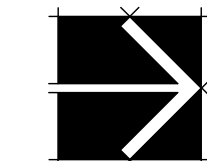


**FLOOR PLAN GENERAL NOTES:**

- A. GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ARCHITECT.
- B. PROVIDE 18" MINIMUM CLEAR FLOOR SPACE AT PULL SIDE OF ALL DOORS, PROVIDE 12" MINIMUM CLEAR FLOOR SPACE AT PUSH SIDE OF ALL DOORS
- C. CONCRETE FOUNDATION WALLS RETAINING EARTH TO RECEIVE TWO COATS OF BITUMINOUS DAMP PROOFING MATERIAL.
- D. SEE MECHANICAL AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
- E. ALL COLORS SELECTIONS AND FINISH MATERIALS AND STYLES SHALL BE COORDINATED WITH OWNER.
- F. SEE INTERIOR ELEVATIONS ON A400 SERIES SHEETS AND MILLWORK DETAILS ON A550 SERIES SHEETS FOR FINISHES OF MILLWORK BASES, AND COUNTERTOPS.
- G. FOR REFLECTED CEILING PLAN SEE A113
- H. FOR FINISH INFORMATION SEE SHEET A621 FOR DOOR AND WINDOW INFORMATION.
- I. SEE CUT SHEETS IN SUBMITTAL BOOK FOR ADDITIONAL INFORMATION.
- J. COORDINATE WITH G000 SERIES SHEETS FOR LEGENDS, SYMBOLS, ABBREVIATIONS AND OTHER ARCHITECTURAL GENERAL INFORMATION.
- K. SEE SHEET A611 FOR WALL TYPES.
- L. DO NOT SCALE DRAWINGS.
- M. SEE SHEET A115 FOR FURNITURE PLAN.
- N. SEE KITCHEN SHEETS FOR EQUIPMENT PLAN
- O. PROVIDE BLOCKING IN WALLS FOR WALL MOUNTED EQUIPMENT/ACCESSORIES (SHOWN WITH DASHED LINE)
- P. IN ACCORDANCE WITH IFC 607.4, PROVIDE CABLE TO RESTRAIN GAS-FIRED COOKING APPLIANCES FROM DAMAGING THE GAS CONNECTOR; COORDINATE WITH MECHANICAL DRAWINGS AND THE CONNECTOR/APPLIANCE MANUFACTURER'S INSTRUCTIONS.
- Q. DATA AND POWER UNDER ALL CABINETS TO STUB OUT IN TOE KICKS AND BE SURFACE MOUNTED TO BACK OF CABINET; COORDINATE WITH ELECTRICAL.
- R. GAS UNDER HOODS TO STUB OUT AT 18" A.F.F.
- S. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH FIRE STOPPING, I.E. 3M BRAND CAULK, PUTTY, STRIP AND SHEET FORMS, DOW CORNING 3-6548 SILICONE RTV FOAM.



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



**THIS SHEET DESCRIBES INTERIOR IMPROVEMENTS FOR THIS PROJECT; COORDINATE WITH SHEET AS112 AS FOR THE CORE AND SHELL**

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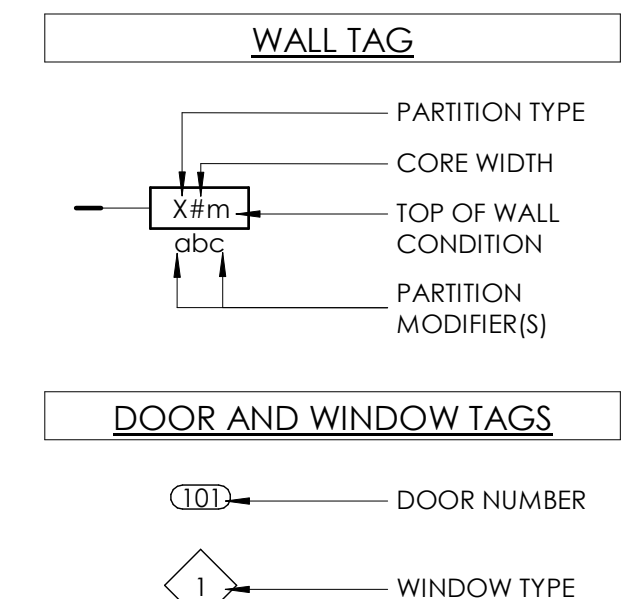
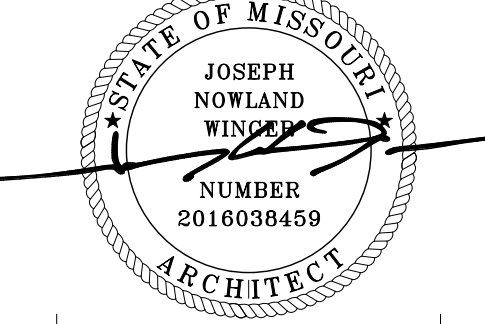
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**AT WALKING SURFACE OR CIRCULATION ROUTE NO SUSPENDED LIGHT FIXTURE, DECORATIVE ITEM OR SIMILAR DECORATIVE ITEMS SHALL BE INSTALLED LOWER THAN 80" A.F.F.**

**NO DEVICE OR DECORATIVE OBJECT LESS THAN 80" A.F.F. SHALL PROJECT MORE THAN 4" FROM ANY WALL IN ANY CIRCULATION PATH OR ACCESSIBLE ROUTE**

sheet number: **MOBETTAHS (TI)** for **LEE'S SUMMIT**

520 NW Chipman Rd  
Lee's Summit, MO 64086

sheet title: **FLOOR PLAN**

sheet number: **A112**



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sheet information

revisions:  $\Delta$

num.	description	date
2	REVISION 02	04-06-22
3	REVISION 03	05-06-22
4	REVISION 04	06-07-22

KEYNOTES

- FULL SOUND BATT ATTENUATION ABOVE CEILING
- TYPE I HOOD: SEE MECHANICAL DRAWINGS; NO COMBUSTIBLE MATERIALS INCLUDING COUNTERS, EQUIPMENT OR APPLIANCES SHALL BE PLACED ADJACENT ANY COOKING APPLIANCE UNDER THE TYPE I HOODS OR AGAINST ANY GREASE HOOD OR GREASE DUCT; ACOUSTICAL CEILING TILES, GYP. BD. CEILINGS, LIGHT FIXTURES AND DUCTWORK WITH COMBUSTIBLE INSULATION SHALL NOT BE PLACED WITHIN 18" OF TYPE I HOOD. STOP GRID CEILING AT HOOD PERIMETER.
- LIGHTING AT WALK-IN: COORD. WITH ELECTRICAL
- PROVIDE CIRCUIT & SWITCHES RECEPTACLES FOR LED ROPE LIGHTING UNDER DINING CANOPY; PROVIDE CIRCUIT AND CONTROLS FOR LED ROPE LIGHTING UNDER DINING CANOPY; COORDINATE LOCATION OF OWNER PROVIDED SURFBOARD ABOVE CANOPY.
- STAINLESS STEEL SHROUD AT WALK-IN BOX PERIMETER TO CLOSE GAP BETWEEN TOP OF BOX AND GRID CEILING; STOP GRID CEILING AT WALK-IN BOX PERIMETER
- CAN LIGHT IN GRID ABOVE CANOPY; TO BE COORDINATED WITH ELEC.
- SIGNAGE/MENU BOARDS, OFOI
- ALIGN THE FACE OF GYP. BD. ON THIS SIDE OF WALL
- FESTOON LIGHTING MOUNTED TO WALL ABOVE STOREFRONT AT 12'-6"
- FESTOON LIGHTING MOUNTED TO POST AT 10'-6" PROVIDE 12" SAG
- LIGHT FIXTURE MOUNTED TO UNDERSIDE OF CANOPY - ALL CONDUIT UNDER CANOPY SHALL BE PAINTED TO MATCH CANOPY COLOR.
- GENERAL LIGHTING 11'-0" A.F.F.
- INSTALL 2X2 ACCESS PANEL IN CEILING IN THIS LOCATION FOR ACCESS TO GREASE DUCT CLEANOUT, SEE MECHANICAL.
- CLUSTER OF MEDIUM / SMALL RATAN PENDANTS; HEIGHT VARIES (8'-0", 8'-6", 9'-0")
- LARGE RATAN PENDANTS; CENTERED ON TABLES BELOW

ELECTRICAL/MECHANICAL LEGEND

- NOTE:  
1. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS
- LIGHT IN CEILING GRID
  - RECESSED LIGHT, PLEASE SEE DETAIL -/--- FOR TYPICAL CAN LIGHT PLACEMENT WITHIN CEILING TILE
  - SUPPLY DIFFUSER
  - RETURN AIR DIFFUSER
  - EXHAUST FAN
  - SECURITY CAMERA; CEILING MOUNTED; NOT SHOWN; COORDINATE WITH ELECTRICAL
  - SECURITY CAMERA; WALL MOUNTED; NOT SHOWN; COORDINATE WITH ELECTRICAL
  - CEILING MOUNTED SPEAKER; NOT SHOWN; COORDINATE WITH ELECTRICAL
  - DIRECTIONAL FIXTURES; COORD. WITH ELECTRICAL; DINING TRIMS TO BE BLACK

REFLECTED CEILING PLAN GENERAL NOTES

- GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS, AND ASSEMBLIES PRIOR TO CONSTRUCTION. REPORT ANY SIGNIFICANT DISCREPANCIES TO THE OWNER AND ARCHITECT.
- MECHANICAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, AND CEILING SUBCONTRACTORS SHALL COORDINATE THEIR WORK. IN CASE OF CONFLICT, THE REFLECTED CEILING PLAN SHALL TAKE PRECEDENCE.
- COORDINATE WITH MECHANICAL AND ELECTRICAL FOR ADDITIONAL REQUIREMENTS.
- FOR TYPICAL SEISMIC BRACING SEE DETAILS 3/A502 4/A502
- FOR TYPICAL SEISMIC LIGHT BRACING SEE DETAIL 2/A502
- FOR TYPICAL WALL BRACING SEE DETAIL 8/A612
- CEILING HEIGHTS SHOWN ARE ABOVE FINISH FLOOR
- DO NOT SCALE DRAWINGS.
- ALL ELECTRICAL EQUIPMENT SHALL BE NEW. SUB-CONTRACTOR TO PROVIDE COPY OF DATED SALES RECEIPT IF REQUIRED BY THE OWNER.
- IF FIRE SPRINKLER SYSTEM IS REQUIRED; GENERAL CONTRACTOR SHALL PROVIDE THREADED RECESSED FIRE SPRINKLER ESCUTCHEONS AT ALL LOCATIONS; COORDINATE WITH PLUMBING.
- COORDINATE FINAL SECURITY AND SPEAKER LOCATIONS WITH OWNER
- THE USE OF NON-METALLIC SHEATHED CABLE (ROMEX) IS NOT PERMITTED TO BE INSTALLED WITHIN DROPPED OR SUSPENDED CEILING ASSEMBLIES, NEC 334.12.
- INSTALLATION OF CEILING GRID SYSTEM MUST COMPLY WITH ASTM E580, C436; INCLUDING THE SECURING OF THE LIGHTING FIXTURES AND HVAC TERMINALS, (HEAVY DUTY GRID ONLY); COORDINATE WITH NOTES D AND E ABOVE.

CEILING TAG

- C-1 CEILING MATERIAL
- 1'-0" CEILING HEIGHT
- 1'-0" CEILING HEIGHT

MATERIAL TAG

- E-1 MATERIAL TYPE PER SCHEDULE

REFLECTED CEILING PLAN GENERAL NOTES

- NOTE:  
1. PAINT ALL GRILLES / DIFFUSERS IN CEILING TO MATCH ADJACENT CEILING COLOR  
2. SEE SHEET A114 FOR FINISH SCHEDULE AND PAINT COLORS

- ACT-1 2x4 ROCKFON SUSPENDED CEILING TILE IN 2x4 GRID SYSTEM; COLOR STUCCO; SEE DETAILS 6/A502 4/A502  
**BASE BID: ROCKFON SQUARE LAY-IN (#11101) GRID AND TILE COLOR STUCCO-720**  
**ALTERNATE: ARMSTRONG FINE FISURED SQUARE LAY-IN 1228 GRID AND TILE COLOR IVORY LIVI**
- ACT-2 2x4 VINYLROCK GYP LAY-IN PANELS NON-PERFORATED STIPPLE WHITE FACE - NONABSORBENT SURFACE SUSPENDED CEILING TILE IN 2x4 GRID SYSTEM; COLOR WHITE; SEE DETAILS 6/A502 4/A502
- GB-1 5/8" TYPE "X" GYPSUM BOARD WITH SMOOTH FINISH
- W-1 CEILING PANELS PROVIDED BY WALK-IN COOLER/FREEZER MANUFACTURER
- C-1 FAUX STUD WALL; PAINT P-2; SEE DETAILS 9/A514
- COST-1 OPEN TO STRUCTURE. PAINT EXPOSED STRUCTURE, PIPING, WIRING, JUNCTION BOXES, DUCT WORK AND WALLS ABOVE 12'-0" P-2  
**BASE BID: APPLY SPRAYED ACOUSTIC INSULATION TO DECKING PER SPECIFICATION ON SHEET A152 IN LEIU OF PAINTING DECK**  
**ALTERNATE: PAINT EXPOSED DECKING P-2 IN LEIU OF SPRAYED ACOUSTIC INSULATION**

**AT WALKING SURFACE OR CIRCULATION ROUTE NO SUSPENDED LIGHT FIXTURE, DECORATIVE ITEM OR SIMILAR DECORATIVE ITEMS SHALL BE INSTALLED LOWER THAN 80" A.F.F.**

**NO DEVICE OR DECORATIVE OBJECT LESS THAN 80" A.F.F. SHALL PROJECT MORE THAN 4" FROM ANY WALL IN ANY CIRCULATION PATH OR ACCESSIBLE ROUTE**

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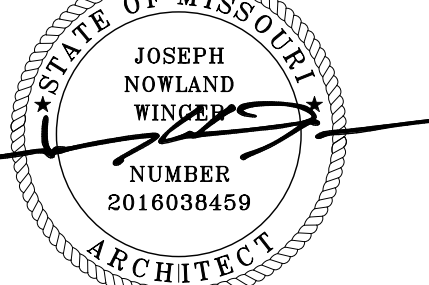
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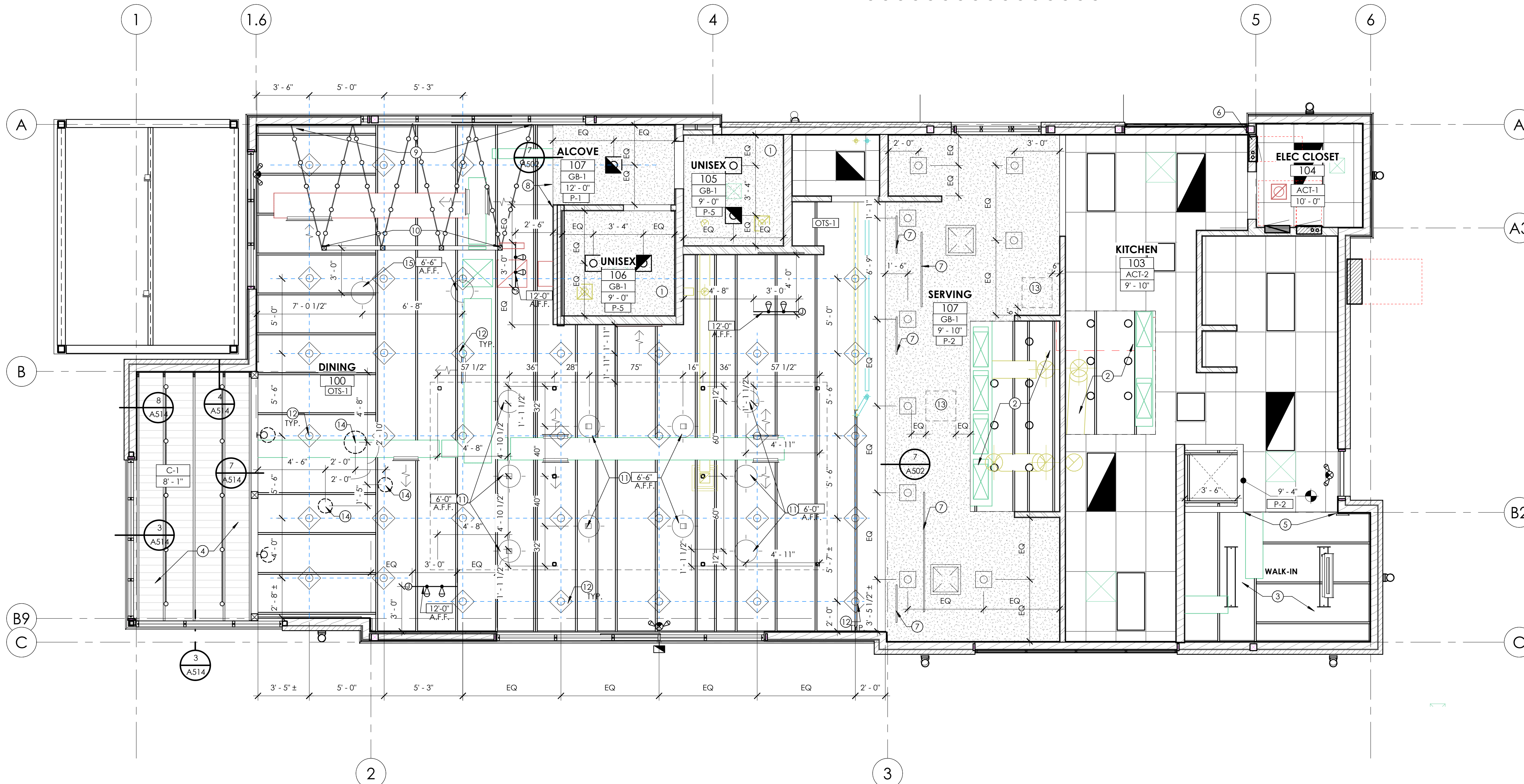
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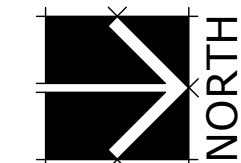
REFLECTED CEILING PLAN

sheet number:

A113



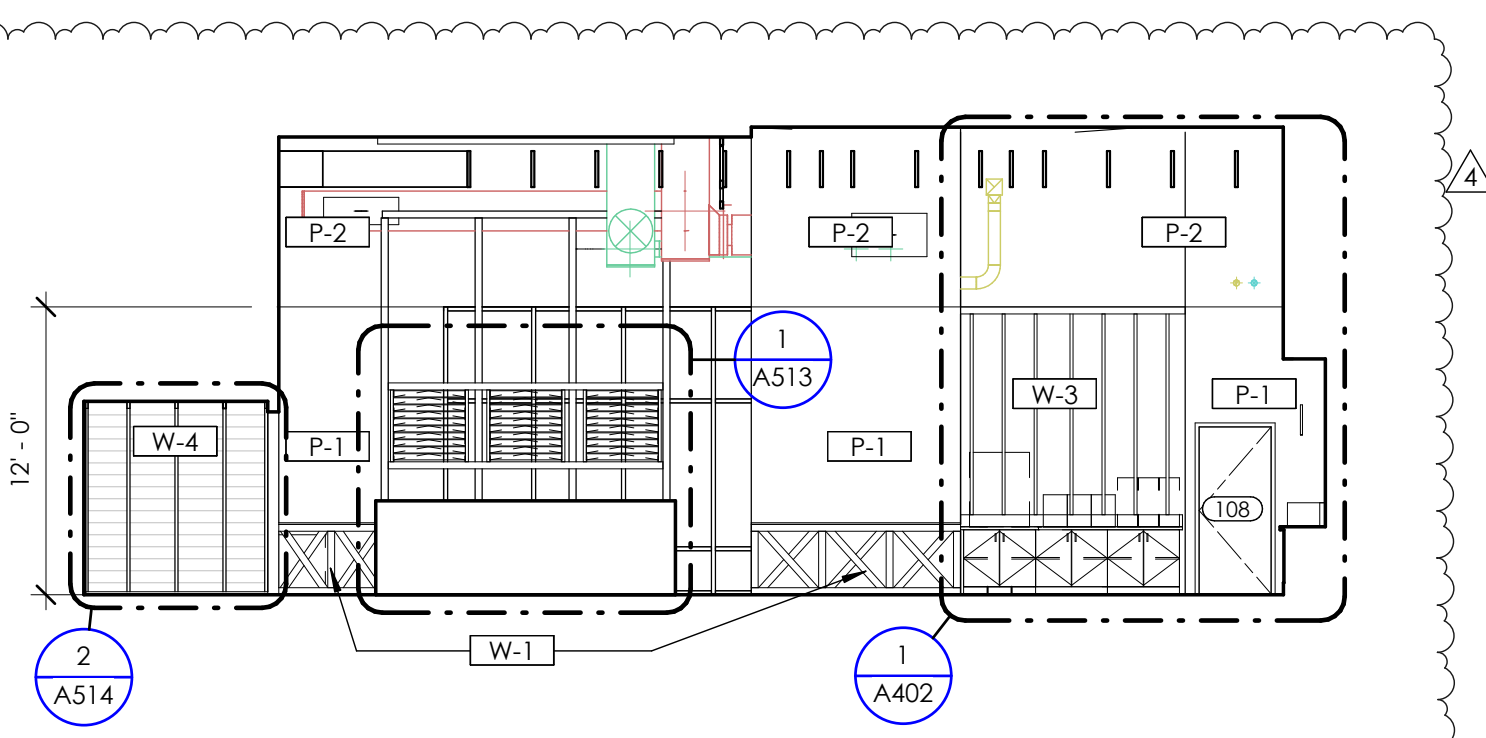
3 REFLECTED CEILING PLAN  
1/4" = 1'-0"



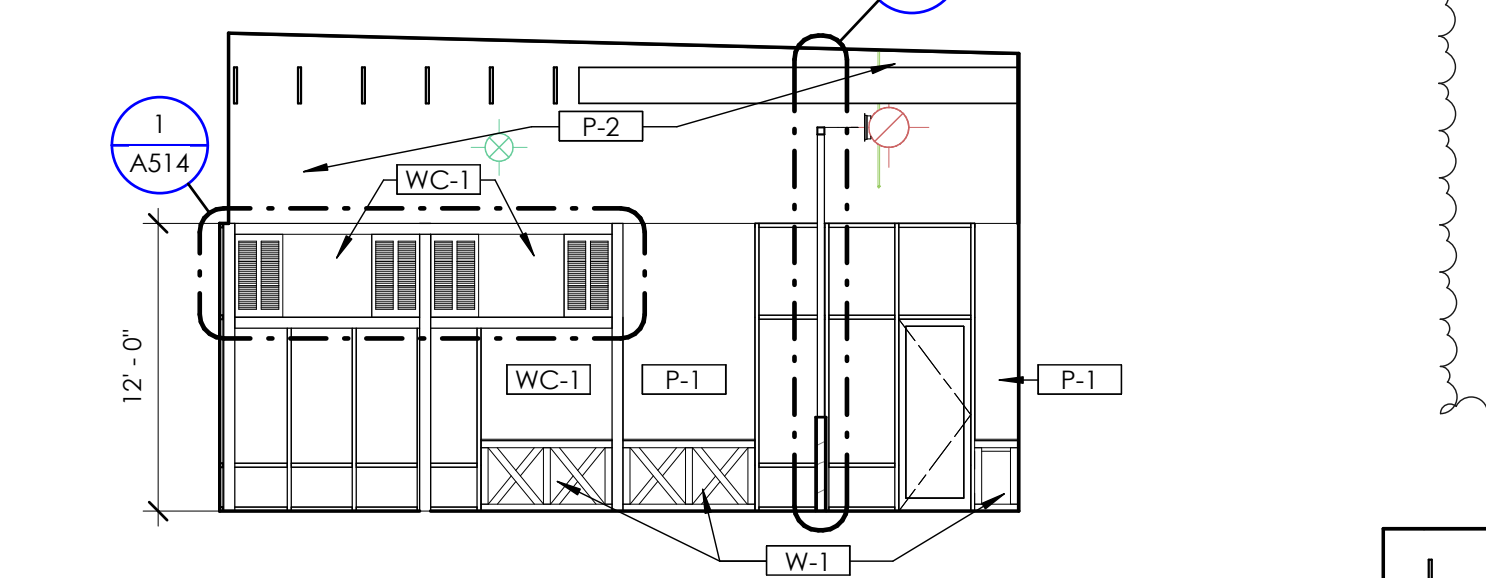
sheet title:

sheet number:

A113



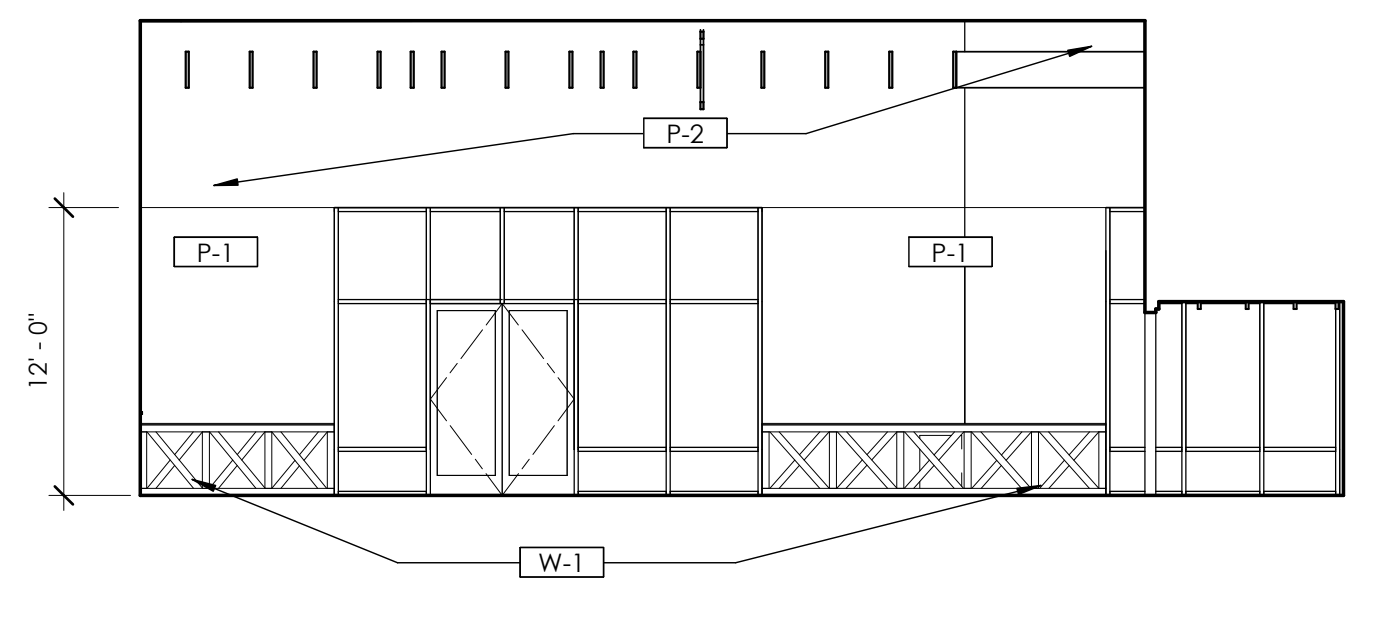
3 WEST ELEVATION  
1/8" = 1'-0"



4 SOUTH ELEVATION  
1/8" = 1'-0"



5 SAMPLE OF MILD DISTRESSED PAINT FINISH  
1/4" = 1'-0"



2 EAST ELEVATION  
1/8" = 1'-0"

**REFLECTED FINISH FLOOR PLAN GENERAL NOTES**

- FLOOR FINISHES ARE CONTINUOUS. ALL FLOORING IS TO CONTINUE BENEATH ALL ELEMENTS IN CONTACT WITH THE FLOOR. CONTRACTOR TO COORDINATE OPENINGS AND PROVIDE FLOORING WITHIN OPENINGS NOT SPECIFICALLY IDENTIFIED.
- ALL PRODUCTS ARE TO BE PROVIDED AND INSTALLED PER MANUFACTURERS PUBLISHED REQUIREMENTS AND FASTENED AND ADHERED ACCORDING TO APPROVED METHODS.
- ALL EXPOSED SURFACES ARE TO BE PREPARED TO RECEIVE NEW FINISHES.
- ALL WIRE FRAMES, CONDUIT, ACCESS PANELS, GILLES, FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS AND MECHANICAL DEVICES SHALL BE FINISHED TO MATCH THE ADJACENT SURFACE UNLESS NOTED OTHERWISE.
- ALL PAINT IS TO CONTINUE FROM BASE OF WALL TO TOP OF WALL AND EDGE OF WALL TO EDGE OF WALL UNLESS NOTED OTHERWISE.
- CONTRACTOR TO REPORT ANY DISCREPANCIES IN PRODUCT QUALITY TO ARCHITECT FOR REVIEW AND APPROVAL.
- COMMENCEMENT OF WORK ON ANY SURFACE BY THE CONTRACTOR MEANS ACCEPTANCE OF THOSE SURFACES. REFER TO SHEET A500 SERIES SHEETS FOR INTERIOR DETAILS.
- REFER TO SHEET A400 SERIES SHEETS FOR INTERIOR ELEVATIONS.
- REFER TO SHEET A113 FOR REFLECTED CEILING PLANS.
- FLOOR TRANSITION HEIGHTS NOT TO EXCEED 1/4" MAXIMUM. PROVIDE APPROPRIATE TRANSITION AT EACH LOCATION WHERE FLOOR MATERIAL CHANGES.
- EQUIPMENT NOT SHOWN FOR CLARITY
- RUN FLOORING UP TO MILLWORK AND UNDER OPEN COUNTERTOPS.
- SEE SHEET A111 FOR FLOOR DRAINS, FLOOR SINKS, AND TROUGH DRAIN LOCATIONS

**WALL & PAINT FINISH SCHEDULE**

MARK	MATERIAL	DESCRIPTION
GB-1	GYP. BD.	MUD/TAPE/SANDED -NO PAINT
FRP-1	FRP (SMOOTH WHITE)	SMOOTH WHITE; PEBBLED; FULL HEIGHT OR AS SHOWN SEE DETAIL 1/A501
MG-#	METAL GUARD	SEE INTERIOR METAL; SCHEDULE ON SHEET A114
MP-#	METAL PANEL	SEE INTERIOR METAL; SCHEDULE ON SHEET A114
MS-#	METAL SURFACE	SEE INTERIOR METAL; SCHEDULE ON SHEET A114
P-1	PAINT (LIGHT GREEN)	SW #6178 "CLARY SAGE"; 2 COATS ACRYLIC ENAMEL OVER 1 COAT BLOCKING PRIMER; EGGSHELL
P-2	PAINT (OFF WHITE)	SW #7571 "CASA BLANCA"; 2 COATS ACRYLIC ENAMEL OVER 1 COAT BLOCKING PRIMER; EGGSHELL
P-3	PAINT (OFF WHITE)	SW #7571 "CASA BLANCA"; SEMI-GLOSS AT DOOR AND FRAME
P-4	PAINT (SIMULATED RUST DINING CANOPY)	SIMULATED RUST FINISH ON DINING CANOPY CORRUGATED PANELS; SIMULATE RUST WITH VINEGAR-PEROXIDE-SALT SOLUTION (TOP ONLY); ALLOW TIME FOR CORROSION TO BE REVIEWED BY ARCHITECT AND OWNER BEFORE INSTALLATION;
P-5	PAINT (PURE WHITE)	SW #7005 "PURE WHITE"; 2 COATS ACRYLIC ENAMEL OVER 1 COAT BLOCKING PRIMER; EGGSHELL
P-6	PAINT (BLACK)	SW #6258 "TRICORN BLACK"; SEMI-GLOSS AT DOOR AND FRAME
P-7	PAINT (CANOPY STEEL)	SW #7047 "PORPOISE"; 2 COATS ACRYLIC ENAMEL OVER 1 COAT BLOCKING PRIMER; EGGSHELL
W-1	DINING WAINSCOT (STANDARD)	DINING WAINSCOT; "X" FRAME; PAINT P-1; SEE DETAILS 1/A512 3/A512
W-2	DINING WAINSCOT PARTIAL HEIGHT	DINING WAINSCOT; PAINT P-2; HARDWOOD CAP STAIN TO MATCH WILSONART ACORN VELVET ELM15602-31; SEE DETAILS 1/A511
W-3	DINING BOARD AND BATTEN	DINING BOARD AND BATTEN; PAINT P-1; PROVIDE 1/2" PLYWOOD BACKING IN WALL FOR BATTENS SEE DETAILS: 4/A512 3/A512
W-4	DINING FAUX STUD WALL	FAUX STUD WALL; PAINT P-2; SEE DETAILS 2/A514
W-5	POS WAINSCOT	POS WAINSCOT; STAIN TO MATCH WILSONART ACORN VELVET ELM 15602-31; SEE DETAILS 3/A551
WC-1	WALLCOVERING	WALL COVERING ABOVE WAINSCOT; WOLF GORDON; SAMOA PALM; G0H 32260677
WP-1	WALK-IN PANEL	WALL PANELS PROVIDED BY WALK-IN COOLER/MANUF.
WT-1	WALL TILE (FIELD)	WALL TILE: DAL TILE; MYTHOLOGY; COLOR SANTORINI MY90; 4" X 12" UNDLUST; GROUT-MAPEI #27 SILVER
SE-1	SCHLUTER EDGE	JOLLY A 80 AT; SATIN NICKEL ANODIZED ALUMINUM
	*TYPICAL	SEAL ALL GROUT WITH COMMERCIAL SEALER

**INTERIOR METAL SCHEDULE**

MARK	LOCATION	TYPE	NO. OF SURFACES	SHEET SIZE	NO. OF SHEETS	GAUGE	FINISH	REMARKS
MP-01	KITCHEN	WALL FLASHING	1	4x10	3	18	#4 SATIN	INSTALL TRIM AT PERIMETER EDGES AND FIELD JOINTS
MP-02	SERVICE	WALL FLASHING	3	4x10	AS REQ	18	#4 SATIN	INSTALL TRIM AT PERIMETER EDGES AND FIELD JOINTS
MP-03	BEVERAGE	BASE FINISH	3		AS REQ	18	SATIN	BLACK POWDER COAT
MP-04	KITCHEN (MOP SINK)	WALL FLASHING	3	36" x REQ	AS REQ	18	#4 SATIN	INSTALL TRIM AT PERIMETER EDGES AND FIELD JOINTS
MG-01	KITCHEN / SERVICE	U-CHANNEL	10'-0"	2"	PER PLAN	18	#4 SATIN	90° ANGLES
MG-02	KITCHEN / SERVICE	CORNER GUARD	10'-0"	2"	PER PLAN	18	#4 SATIN	90° ANGLE
MG-03	KITCHEN / SERVICE	U-CHANNEL	-	2"	PER PLAN	18	#4 SATIN	FULL WRAP EDGES OF OPENING; STAINLESS STEEL
MG-04	SERVICE (HOOD CLOSURE)	VERTICAL TRIM	40"x	2"	2	18	#4 SATIN	90° ANGLE TO CLOSE GAP AT HOOD AND WING WALL
MG-05	SERVING LINE	U-CHANNEL	2'-8 1/2"	2"	PER PLAN	18	#4 SATIN	90° ANGLES
MS-01	BEVERAGE	COUNTER	PER PLAN	VARIES	1 1/2"	16	#4 SATIN	6" BACKSPLASH; 3 SIDES; BUILT IN TRASH HOLE; COORDINATE WITH SHEET A403
MS-02	BEVERAGE (FLOOR SINK)	COLLAR	-	-	2"	16	#4 SATIN	COORDINATE WITH MILLWORK SUPPLIER
MS-03	STAINLESS STEEL CAP	CAP	PER PLAN	8"	1"	16	#4 SATIN	

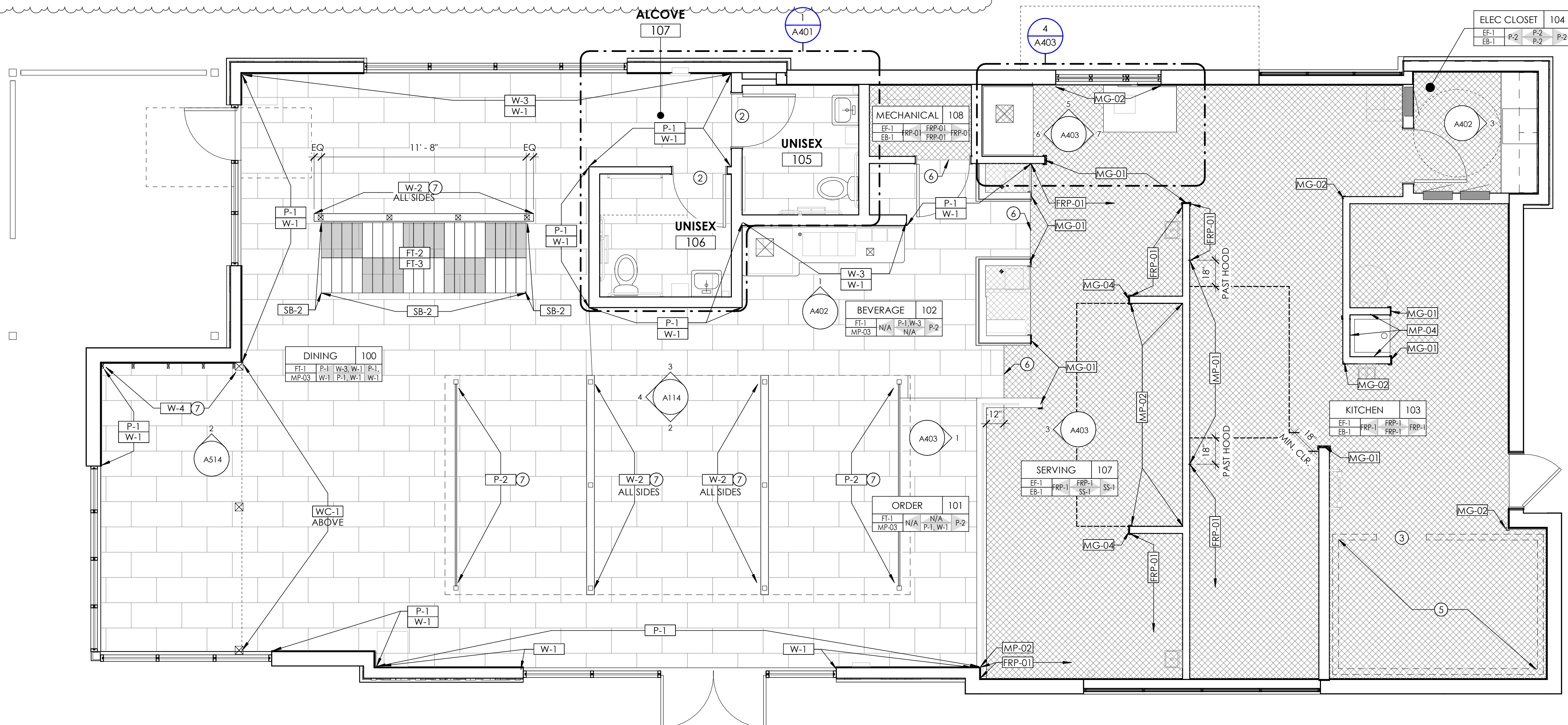
- INTERIOR METAL SCHEDULE GENERAL NOTES:
- METAL SHALL BE SURFACE-LAMINATED TO WALLS; MECHANICAL FASTENING IS NOT PERMITTED UNLESS NOTED OTHERWISE.
  - SHEET SIZES LISTED ARE APPROXIMATE; FIELD VERIFY ALL CONDITIONS PRIOR TO ORDERING MATERIALS.
  - CAULK ALL EXPOSED EDGES AND SEAMS AS REQUIRED; COLOR-CLEAR

**BASE FINISH SCHEDULE**

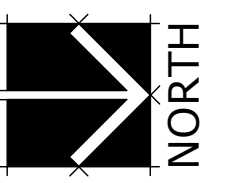
MARK	MATERIAL	DESCRIPTION
EB-1	EPOXY BASE	6" HIGH BASE; MATCH FLOOR; SEE SPEC. SEE DETAIL 1/A501
MP-03	BLACK METAL	SEE INTERIOR METAL SCHEDULE ON SHEET A114
SB-1	SCHLUTER COVE	DILEX @AHKABOAT, 3/8" RADIUS; SATIN NICKEL ANODIZED ALUMINUM
SB-2	SCHLUTER	DECO; AE 80D; 5/16"; SATIN ANODIZED ALUMINUM
MB-1	WALK-IN BASE	WALK-IN MANUF. SUPPLIED BASE

**KEYNOTES**

- NOT USED IN PROJECT
- NO THRESHOLD IN THIS LOCATION; COORDINATE WITH FINISH SCHEDULE
- NO THRESHOLD AT THIS LOCATION; FOLLOW MANUFACTURE'S INSTRUCTION FOR ADJUSTABLE DOOR SWEEP
- TERMINATE FRP EDGE AT EMPLOYEE SIDE OF SERVING LINE SOFFIT ABOVE
- SCHEDULED ECO-GRIP BASE ON INTERIOR AND EXTERIOR OF WALK-IN COOLER.
- FLOOR FINISH TRANSITION; COORDINATE WITH DETAIL 2/A514



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

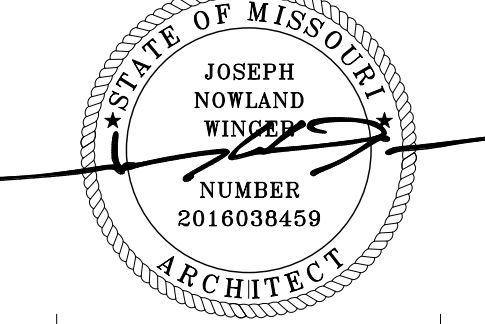


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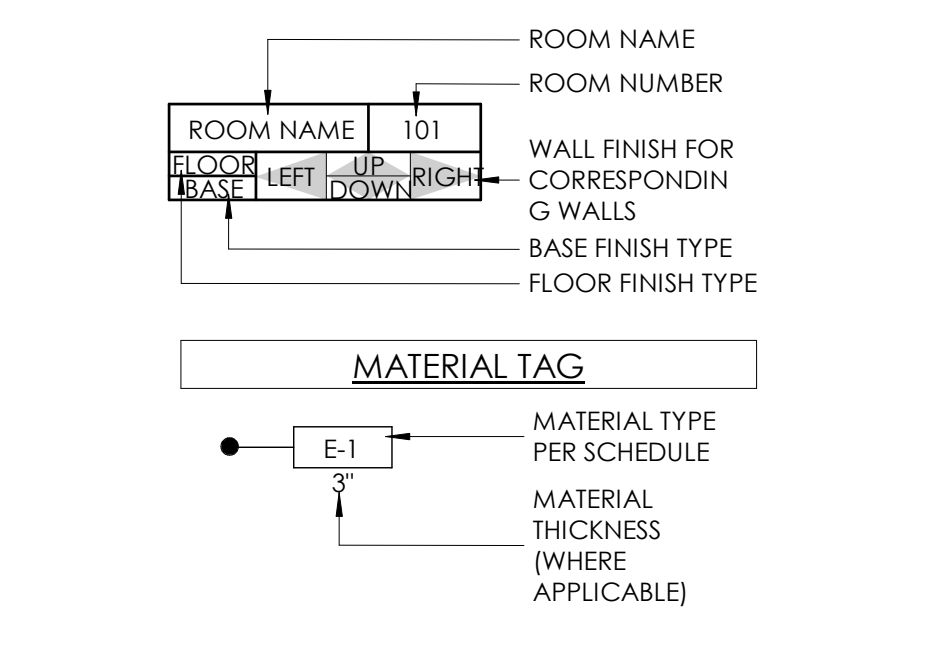
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1	REVISION 01	03-11-22
2	REVISION 02	04-06-22
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4	REVISION 04	08-07-22

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**INTERIOR FINISH LEGEND**



**COUNTERTOP / MILLWORK SCHEDULE**

MARK	MATERIAL	DESCRIPTION
CB-01	P-LAM	BASE CABINET; WILSONART; ACORN VELVET ELM
CT-01	P. LAM.	COUNTERTOP; WILSONART BRONZE LEGACY
CT-02	STAINLESS STEEL	COORDINATE WITH INTERIOR METAL SCHEDULE ON SHEET A114 & DETAILS ON A400 SERIES SHEETS
CT-03	QUARTZ	COUNTERTOP; CORIAN; CARBON CEMENT; 3CM

**FLOOR FINISH SCHEDULE**

MARK	MATERIAL	LEGEND	DESCRIPTION
EF-1	EPOXY	[Pattern]	EPOXY FLOOR; SEE SPEC.
FT-1	PORCELAIN	[Pattern]	FLOOR TILE; AMERICAN OLEAN; THEORETICAL; COLOR CREATIVE GRAY 1196; 11-5/8" X 23-3/8"; GROUT-MAPEI #27 SILVER; ASHLAR INSTALLATION
FT-2	PORCELAIN	[Pattern]	FLOOR TILE; DAL TILE; GAINESWOOD; PINE GW04; 6" X 24"; GROUT-MAPEI #04 BAHAMA BEIGE
FT-3	PORCELAIN	[Pattern]	FLOOR TILE; DAL TILE; GAINESWOOD; HICKORY GW05; 6" X 24"; GROUT-MAPEI #04 BAHAMA BEIGE
PC-1	POLISHED CONC.	[Pattern]	POLISHED CONCRETE FLOOR & PROVIDE CODE MINIMUM SLIP RESISTANCE CLEAR COLOR; NATURAL FINISH COORDINATE WITH SHEET A153
SC-1	SEALED CONC.	[Pattern]	EXISTING SEALED CONC. TO REMAIN

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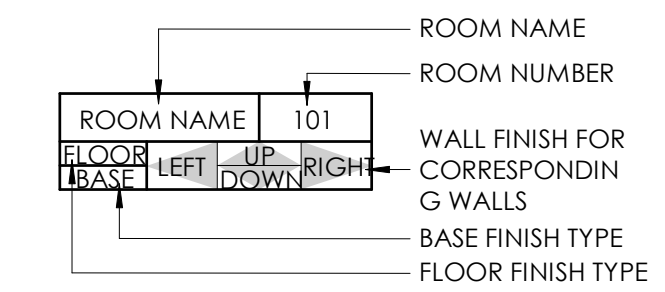
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**A114**

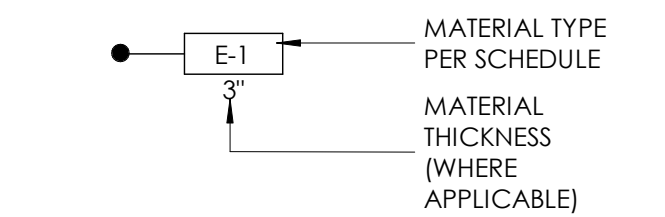
**FURNITURE PLAN GENERAL NOTES**

- A. GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ARCHITECT.
- B. ALL COLORS SELECTIONS AND FINISH MATERIALS AND STYLES SHALL BE COORDINATED WITH OWNER.
- C. MILLWORK SHOWN DASHED CLARITY.
- D. EQUIPMENT NOT SHOWN FOR CLARITY.
- E. RUN FLOORING UP TO MILLWORK AND UNDER OPEN COUNTERTOPS.
- F. COORDINATE COUNTERTOP FINISHES WITH
- G. COORDINATE WITH INTERIOR ELEVATIONS ON A250 SERIES SHEETS AND MILLWORK DETAILS ON A550 SERIES SHEETS
- H. PAINTED DOOR TRIM COLOR SEE DOOR SCHEDULE.

**INTERIOR FINISH LEGEND**



**MATERIAL TAG**



**COUNTERTOP / MILLWORK SCHEDULE**

MARK	MATERIAL	DESCRIPTION
CB-01	P-LAM	BASE CABINET; WILSONART; ACORN VELVET ELM
CT-01	P. LAM.	COUNTERTOP; WILSONART BRONZE LEGAXY
CT-02	STAINLESS STEEL COUNTER	COORDINATE WITH INTERIOR METAL SCHEDULE ON SHEET A114 & DETAILS ON A400 SERIES SHEETS
CT-03	QUARTZ	COUNTERTOP; CORIAN; CARBON CEMENT; 3CM



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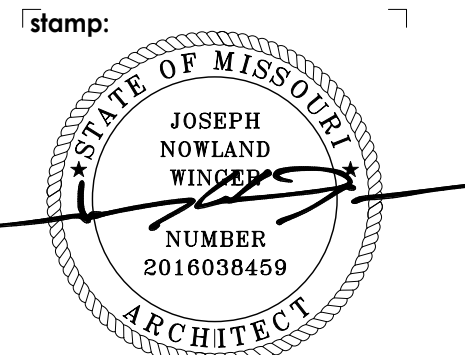
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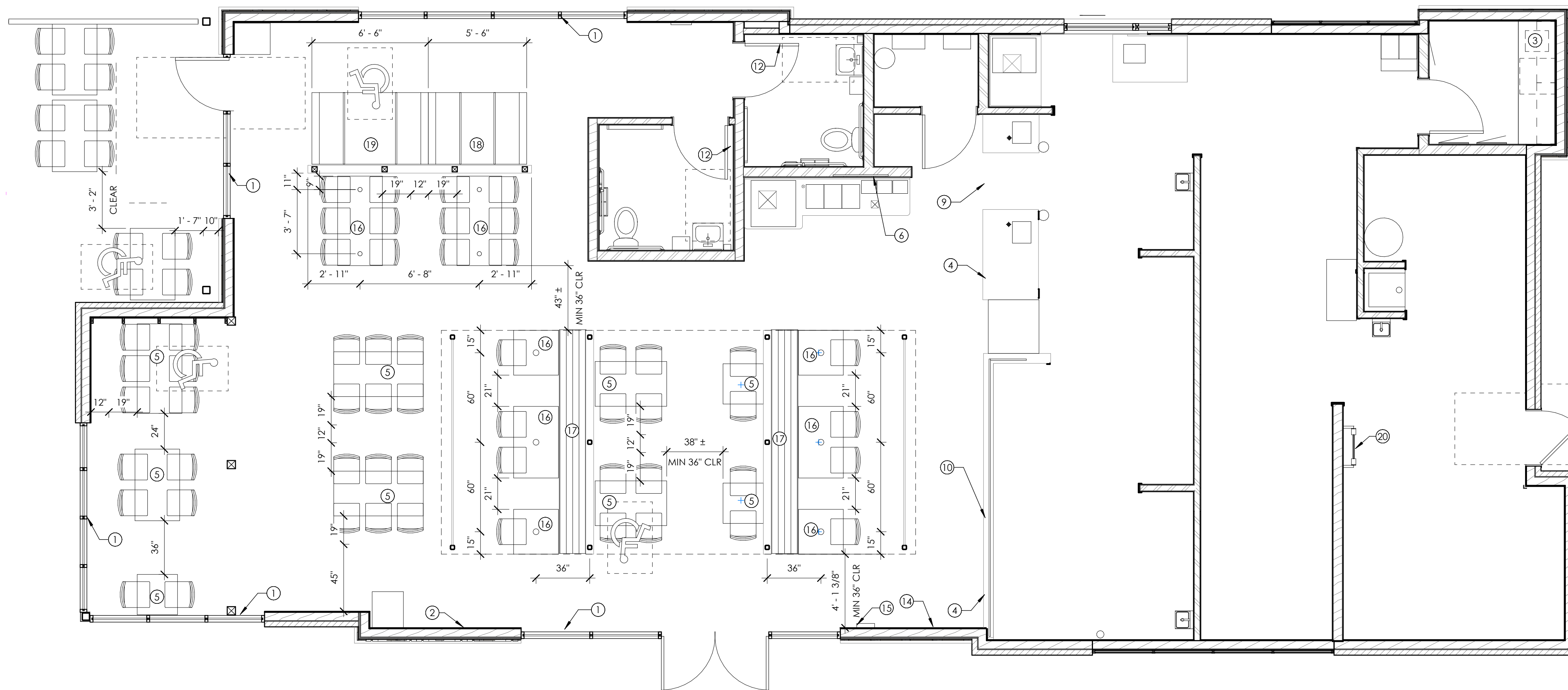
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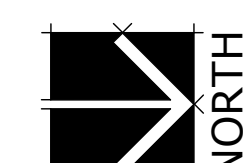
**FURNITURE PLAN**

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**FURNITURE PLAN**  
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### sheet information

revisions:  $\Delta$   
num. description date  
4 REVISION 04 06-07-22

date: 1-23-2022

project number: MO-53LEE

project status: ISSUED FOR CONSTRUCTION

original drawing is 24" x 36"

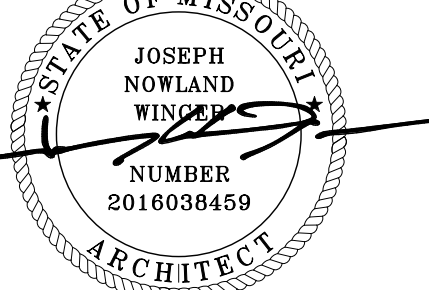
current as of: 6/29/2022 9:59:57 AM

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sheet number:

MOBETTAHS (TI) for LEE'S SUMMIT  
520 NW Chipman Rd  
Lee's Summit, MO 64086

sheet title:

ENLARGED FLOOR PLANS (RESTROOMS)

sheet number:

4 A401

KEYNOTES	
1	ADA COMPLIANT SINK & FAUCET; SEE PLUMBING DRAWINGS
2	ADA COMPLIANT TOILET; SEE PLUMBING DRAWINGS
3	WALL MOUNTED HAND WASH SIGNAGE
4	ACCESSIBLE CLEAR FLOOR SPACE PER ICC/ANSI
5	FLOOR DRAIN/FLOOR TROUGH/FLOOR SINK; COORDINATE WITH PLUMBING DRAWINGS
6	INSTALL PLYWOOD ON THIS SIDE OF WALL; COORDINATE WITH A112 AND A611

ACCESSORY LEGEND	
AC-2	ACCESSORY TAG (REFERENCES FIRST COLUMN IN ACCESSORY LEGEND)
MARK	DESCRIPTION
AC-1	ADA COMPLIANT SOAP DISPENSER; SURFACE MOUNTED
AC-2	ADA COMPLIANT TOILET PAPER DISPENSER; SURFACE MOUNTED
AC-3	ADA COMPLIANT PAPER TOWEL DISPENSER/SURFACE MOUNTED
AC-4	BABY CHANGING STATION; COORDINATE WITH EQUIPMENT PLAN
AC-5	ADA COMPLIANT NAPKIN DISPOSAL; SURFACE MOUNTED BOBRICK-MODEL B-270; STAINLESS STEEL
AC-6	ADA COMPLIANT SEAT COVER DISPENSER; SURFACE MOUNTED BOBRICK-MODEL B-221; STAINLESS STEEL
AC-7	ADA COMPLIANT GRAB BARS AT TOILET; COORDINATE WITH DETAIL 3/G202
AC-8	ADA COMPLIANT MIRROR; STAINLESS STEEL FRAME 18"x36"; WALL MOUNTED

GENERAL NOTES	
A.	GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS, AND ASSEMBLIES PRIOR TO CONSTRUCTION. REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ARCHITECT.
B.	COORDINATE INSTALLATIONS OF ALL AFTER CONTRACT ASSEMBLIES WITH OWNER PRIOR TO CONSTRUCTION OF ADJOINING OR RELATED STRUCTURES.
C.	SEE C4/G002, D1/G002, AND D4/G002 FOR EQUIPMENT BLOCKING AND WALL-MOUNTED ACCESSORIES
D.	5' DIAMETER ACCESSIBLE CLEAR FLOOR SPACE PER ICC/ANSI SHOWN ON PLAN FOR REFERENCE

MATERIAL TAG	
E-1	MATERIAL TYPE PER SCHEDULE
3"	MATERIAL THICKNESS (WHERE APPLICABLE)

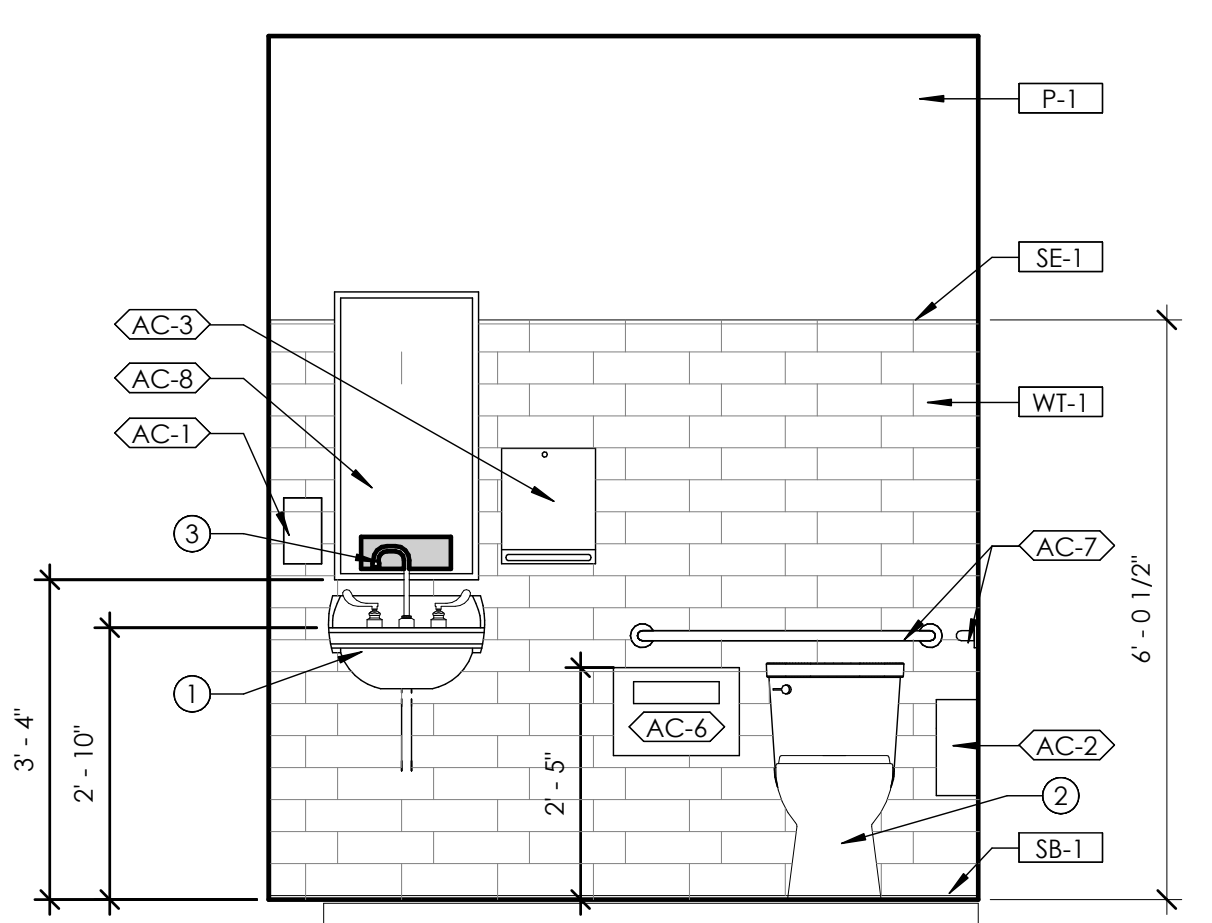
  

ACCESSORY TAG	
A	ACCESSORY MARK PER SCHEDULE
#	EQUIPMENT PER SCHEDULE ON SHEET Q102

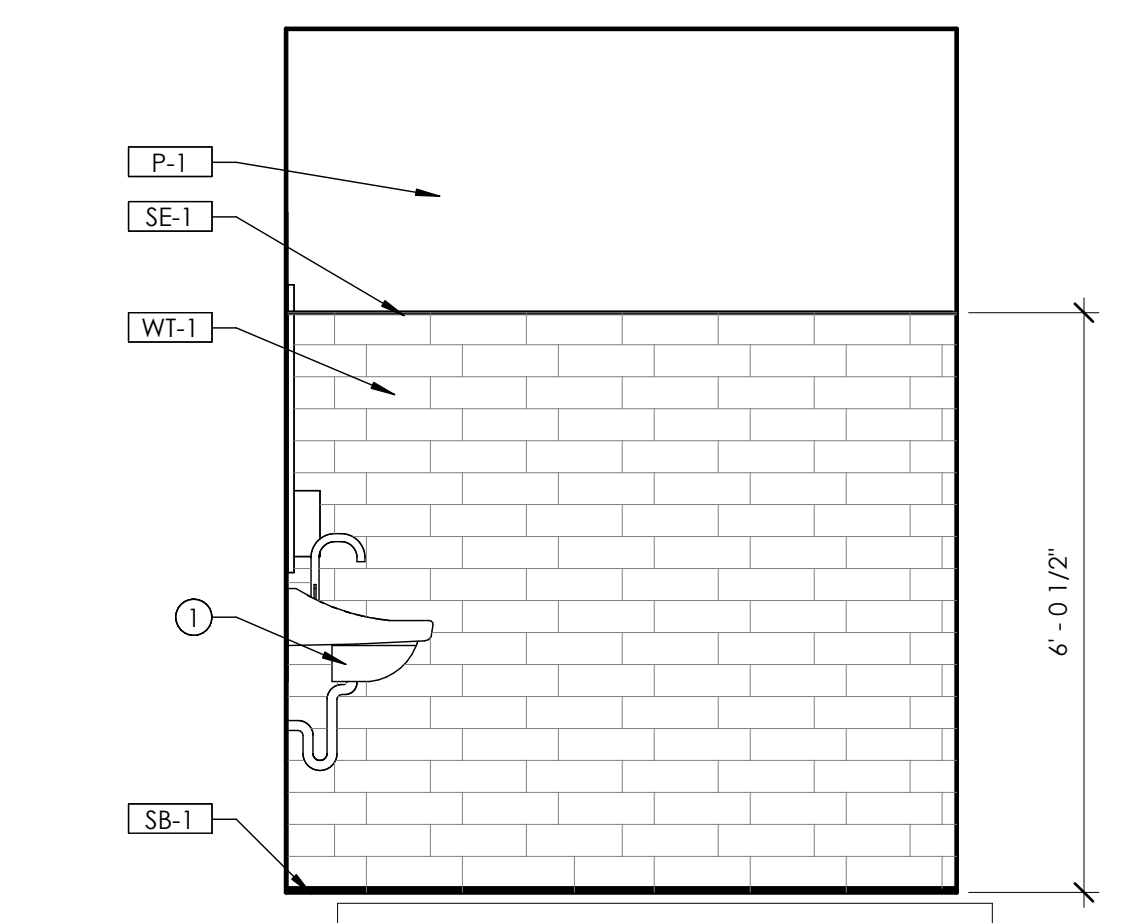
WALL & PAINT FINISH SCHEDULE		
MARK	MATERIAL	DESCRIPTION
GB-1	GYP. BD.	MUD/TAPE/SANDED-NO PAINT
FRP-1	FRP (SMOOTH WHITE)	SMOOTH WHITE; PEBBLED; FULL HEIGHT OR AS SHOWN SEE DETAIL 1/A501
MG-#	METAL GUARD	SEE INTERIOR METAL; SCHEDULE ON SHEET A114
MP-#	METAL PANEL	SEE INTERIOR METAL; SCHEDULE ON SHEET A114
MS-#	METAL SURFACE	SEE INTERIOR METAL; SCHEDULE ON SHEET A114
P-1	PAINT (LIGHT GREEN)	SW #6178 "CLARY SAGE"; 2 COATS ACRYLIC ENAMEL OVER 1 COAT BLOCKING PRIMER; EGGSHELL
P-2	PAINT (OFF WHITE)	SW #7571 "CASA BLANCA"; 2 COATS ACRYLIC ENAMEL OVER 1 COAT BLOCKING PRIMER; EGGSHELL
P-3	PAINT (OFF WHITE)	SW #7571 "CASA BLANCA"; SEMI-GLOSS AT DOOR AND FRAME
P-4	PAINT (SIMULATED RUST DINING CANOPY)	SIMULATED RUST FINISH ON DINING CANOPY CORRUGATED PANELS; SIMULATE RUST WITH VINEGAR-PEROXIDE-SALT SOLUTION (TOP ONLY); ALLOW TIME FOR CORROSION TO BE REVIEWED BY ARCHITECT AND OWNER BEFORE INSTALLATION;
P-5	PAINT (PURE WHITE)	SW #7005 "PURE WHITE"; 2 COATS ACRYLIC ENAMEL OVER 1 COAT BLOCKING PRIMER; EGGSHELL
P-6	PAINT (BLACK)	SW #6258 "TRICORN BLACK"; SEMI-GLOSS AT DOOR AND FRAME
P-7	PAINT (CANOPY STEEL)	SW #7047 "PORPOISE"; 2 COATS ACRYLIC ENAMEL OVER 1 COAT BLOCKING PRIMER; EGGSHELL
W-1	DINING WAINSCOT (STANDARD)	DINING WAINSCOT; "X" FRAME; PAINT P-1; SEE DETAILS 1/A512 3/A512
W-2	DINING WAINSCOT PARTIAL HEIGHT	DINING WAINSCOT; PAINT P-2; HARDWOOD CAP STAIN TO MATCH WILSONART ACORN VELVET ELM 15602-31; SEE DETAILS 1/A511
W-3	DINING BOARD AND BATTEN	DINING BOARD AND BATTEN; PAINT P-1; PROVIDE 1/2" PLYWOOD BACKING IN WALL FOR BATTENS SEE DETAILS: 4/A512 3/A512
W-4	DINING FAUX STUD WALL	FAUX STUD WALL; PAINT P-2; SEE DETAILS 2/A514
W-5	POS WAINSCOT	POS WAINSCOT; STAIN TO MATCH WILSONART ACORN VELVET ELM 15602-31; SEE DETAILS 3/A551
WC-1	WALLCOVERING	WALL COVERING ABOVE WAINSCOT; WOLF GORDON; SAMOA PALM; GOH 32260677
WP-1	WALK-IN PANEL	WALL PANELS PROVIDED BY WALK-IN COOLER/MANUF.
WT-1	WALL TILE* (FIELD)	WALL TILE: DALTILE: MYTHOLOGY; COLOR SANTORINI MY90; 4" X 12" UNULATED; GROUT-MAPEI #27 SILVER
SE-1	SCHLUTER EDGE	JOLLY A 80 AT; SATIN NICKEL ANODIZED ALUMINUM
	*TYPICAL	SEAL ALL GROUT WITH COMMERCIAL SEALER

FLOOR FINISH SCHEDULE			
MARK	MATERIAL	LEGEND	DESCRIPTION
EF-1	EPOXY		EPOXY FLOOR; SEE SPEC.
FT-1	PORCELAIN		FLOOR TILE: AMERICAN OLEAN; THEORETICAL; COLOR CREATIVE GRAY TH96; 11-5/8" X 23-3/8"; GROUT-MAPEI #27 SILVER; ASHLAR INSTALLATION
FT-2	PORCELAIN		FLOOR TILE: DALTILE: GAINESWOOD; PINE GW04; 6" X 24"; GROUT-MAPEI #04 BAHAMA BEIGE
FT-3	PORCELAIN		FLOOR TILE: DALTILE: GAINESWOOD; HICKORY GW05; 6" X 24"; GROUT-MAPEI #04 BAHAMA BEIGE
PC-1	POLISHED CONC.		POLISHED CONCRETE FLOOR & PROVIDE CODE MINIMUM SLIP RESISTANCE CLEAR COLOR; NATURAL FINISH COORDINATE WITH SHEET A153
SC-1	SEALED CONC.		EXISTING SEALED CONC. TO REMAIN

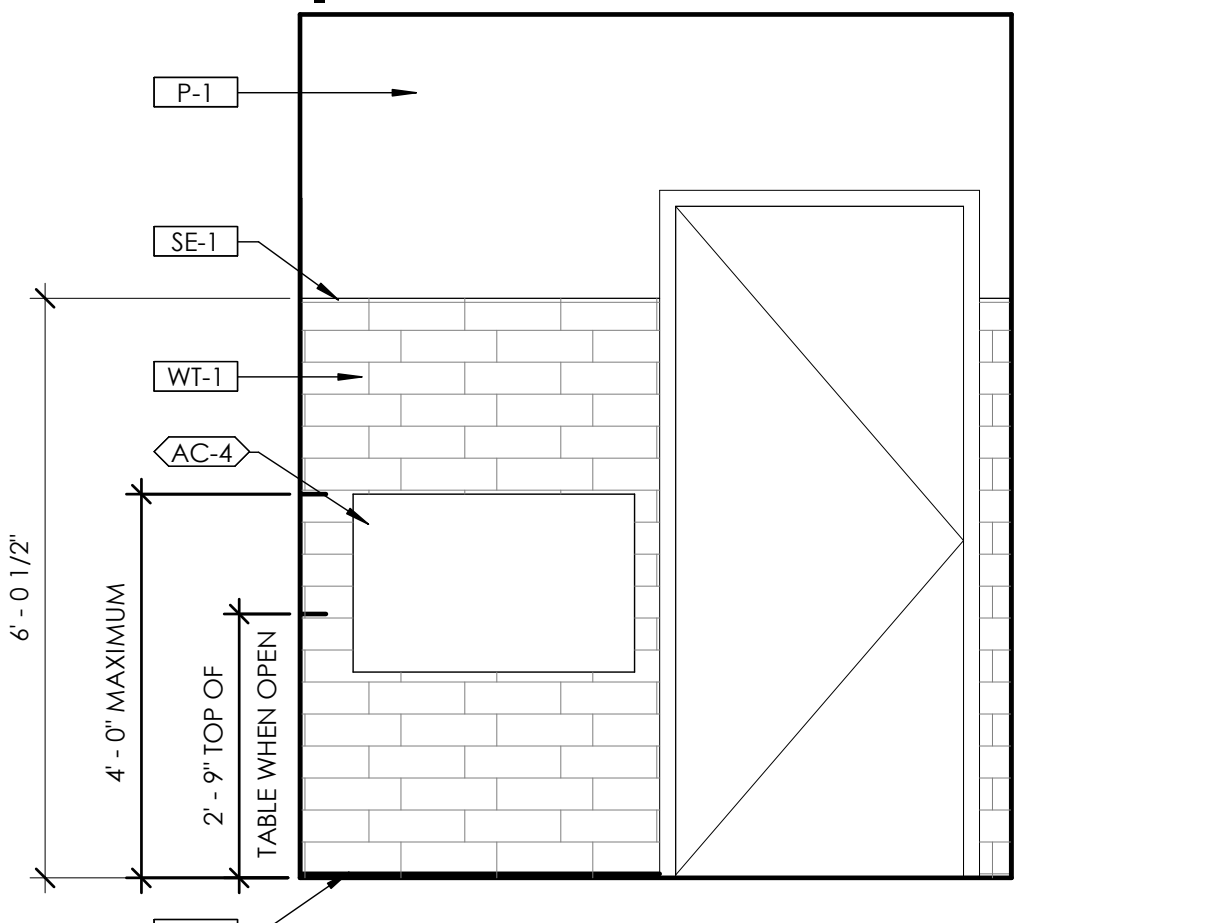
BASE FINISH SCHEDULE		
MARK	MATERIAL	DESCRIPTION
EB-1	EPOXY BASE	6" HIGH BASE; MATCH FLOOR; SEE SPEC. SEE DETAIL 1/A501
MP-Q3	BLACK METAL	SEE INTERIOR METAL SCHEDULE ON SHEET A114
SB-1	SCHLUTER COVE	DILEX @AHKA80AT, 3/8" RADIUS; SATIN NICKEL ANODIZED ALUMINUM
SB-2	SCHLUTER	DECO; AE 80D; 5/16"; SATIN ANODIZED ALUMINUM
MB-1	WALK-IN BASE	WALK-IN MANUF. SUPPLIED BASE



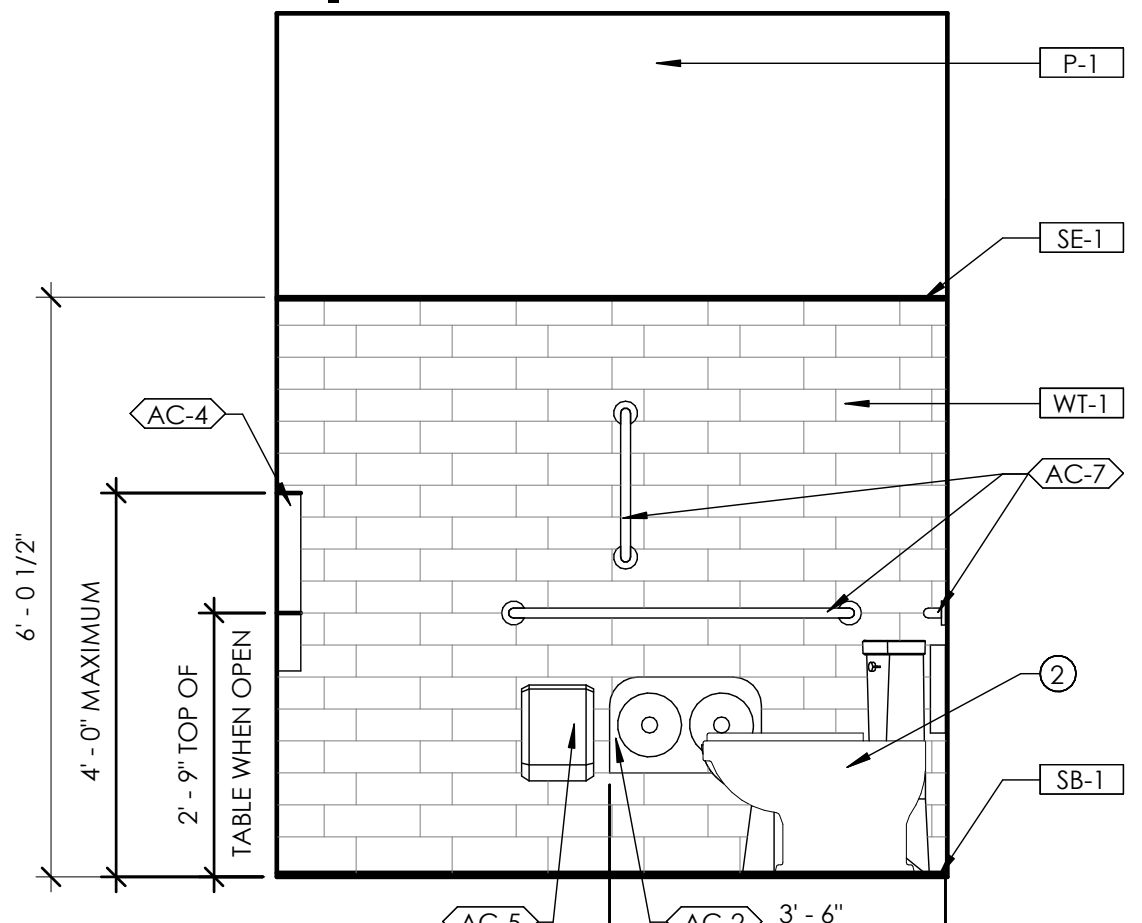
6 RESTROOM ELEVATION - TOILET WALL - 1  
1/2" = 1'-0"



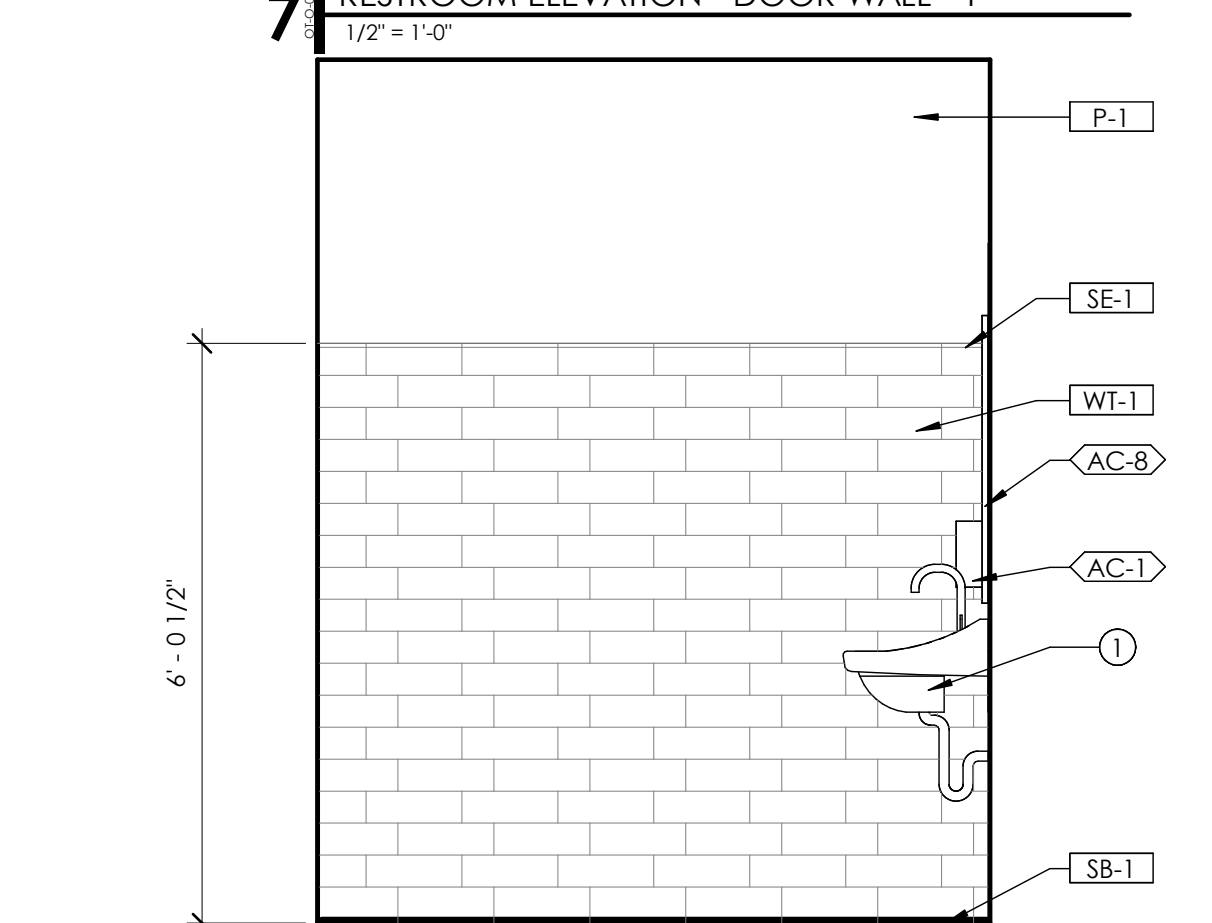
2 RESTROOM ELEVATION - SIDE WALL - 1  
1/2" = 1'-0"



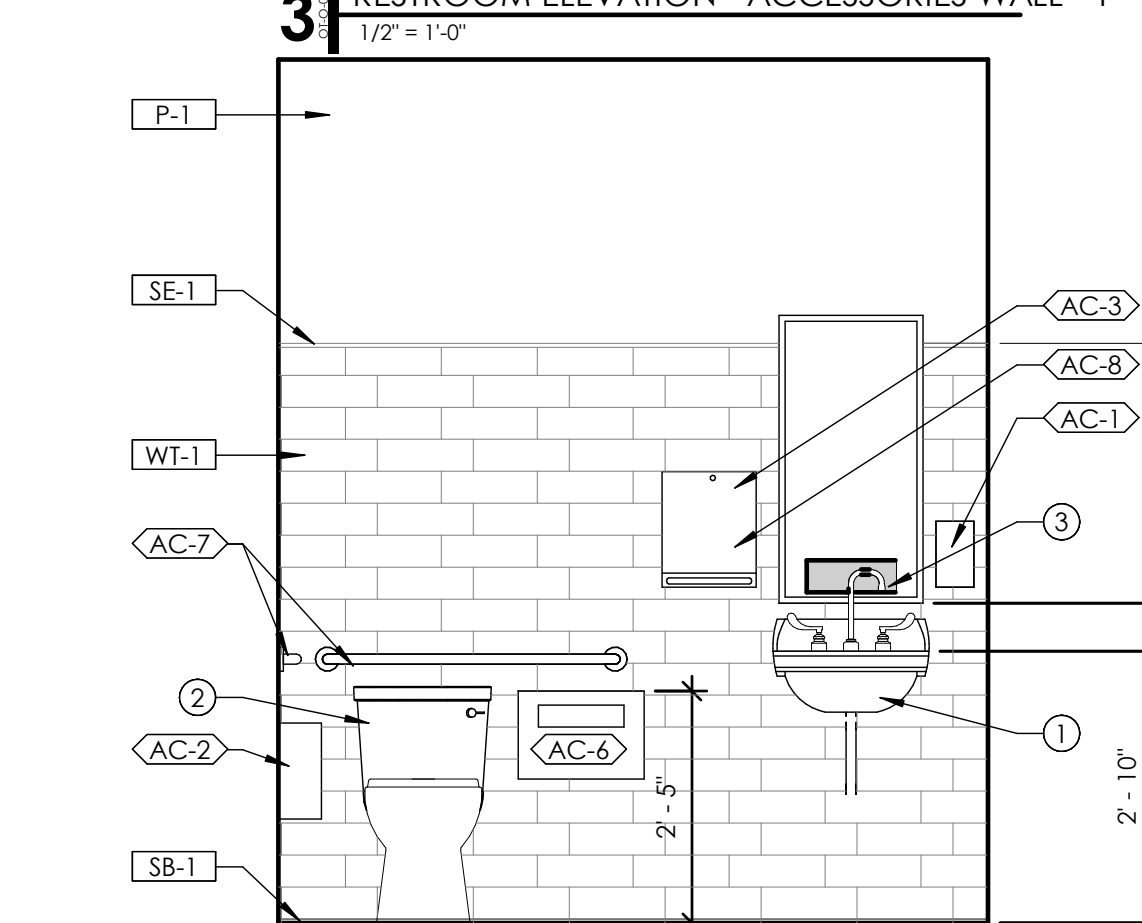
7 RESTROOM ELEVATION - DOOR WALL - 1  
1/2" = 1'-0"



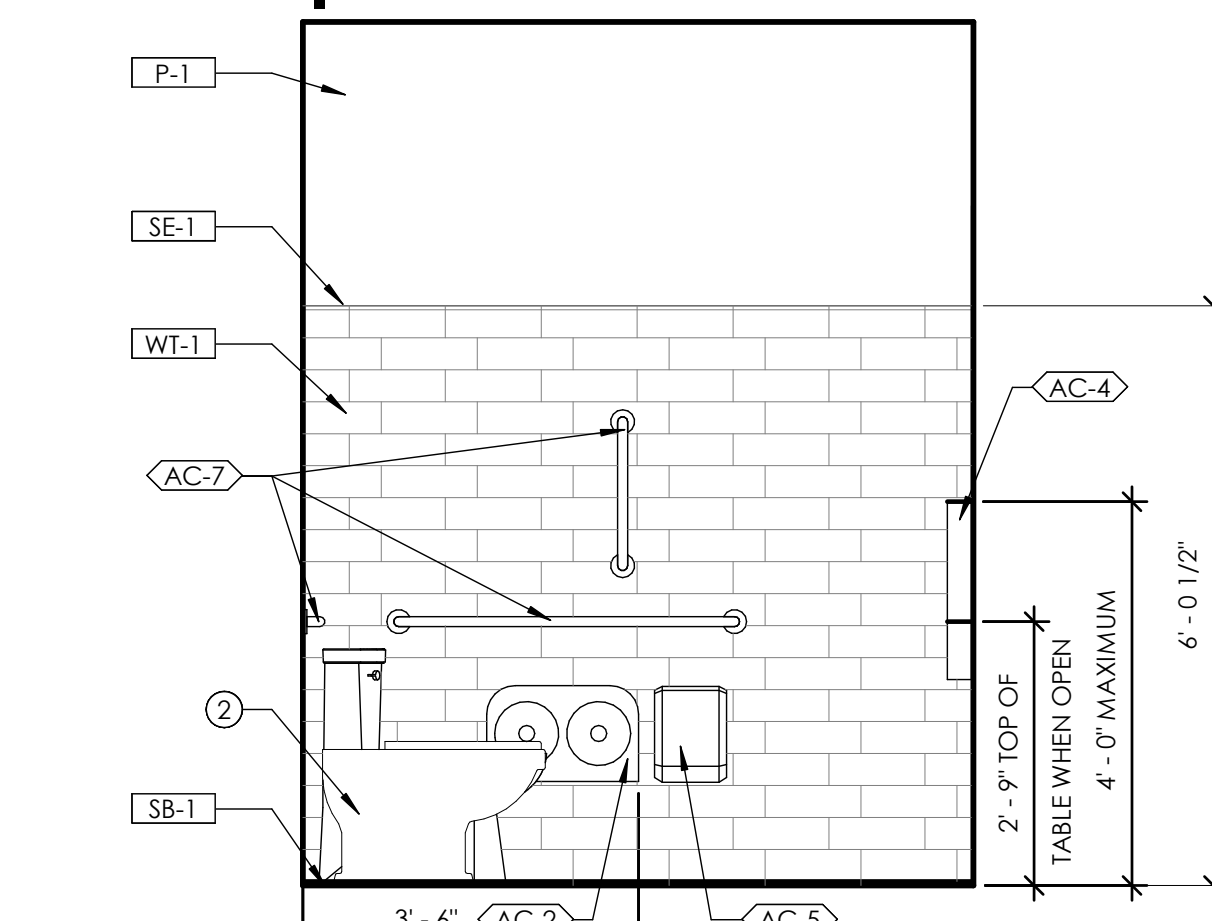
3 RESTROOM ELEVATION - ACCESSORIES WALL - 1  
1/2" = 1'-0"



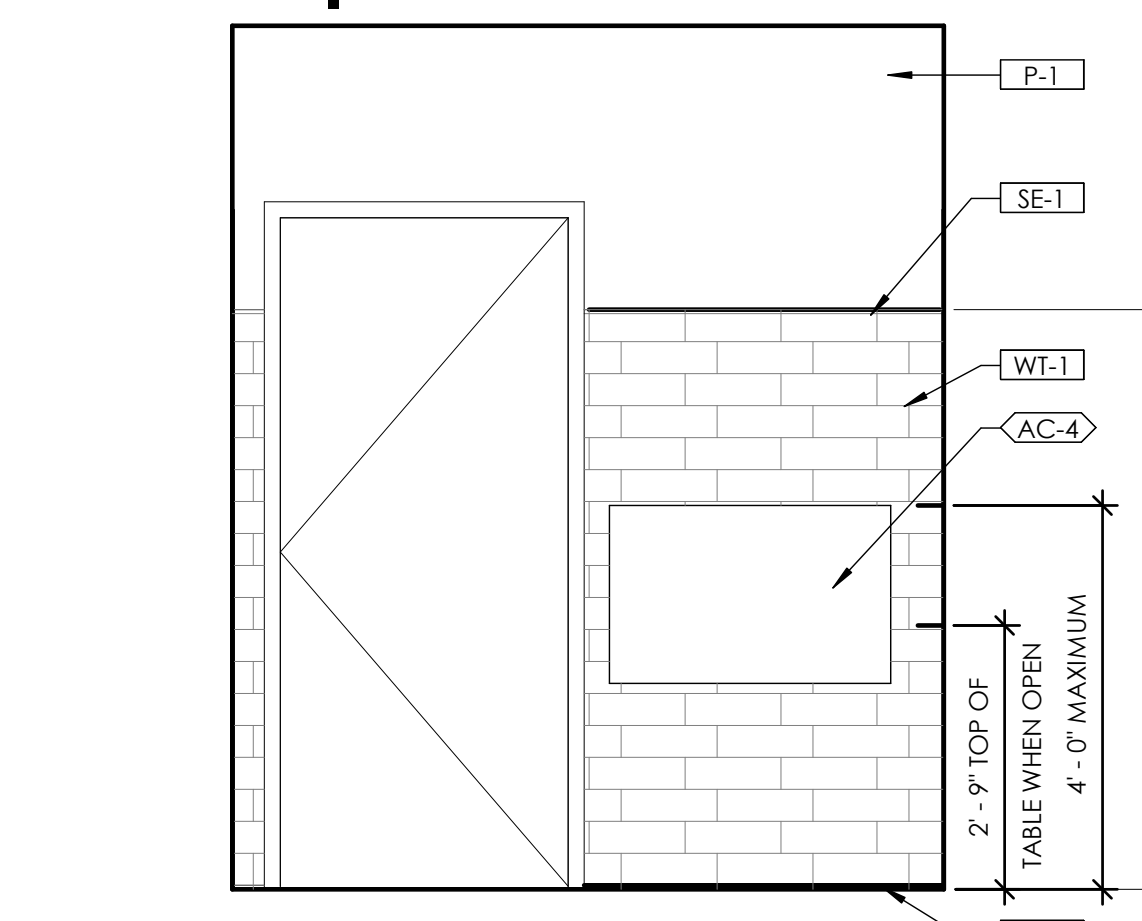
8 RESTROOM ELEVATION - SIDE WALL - 2  
1/2" = 1'-0"



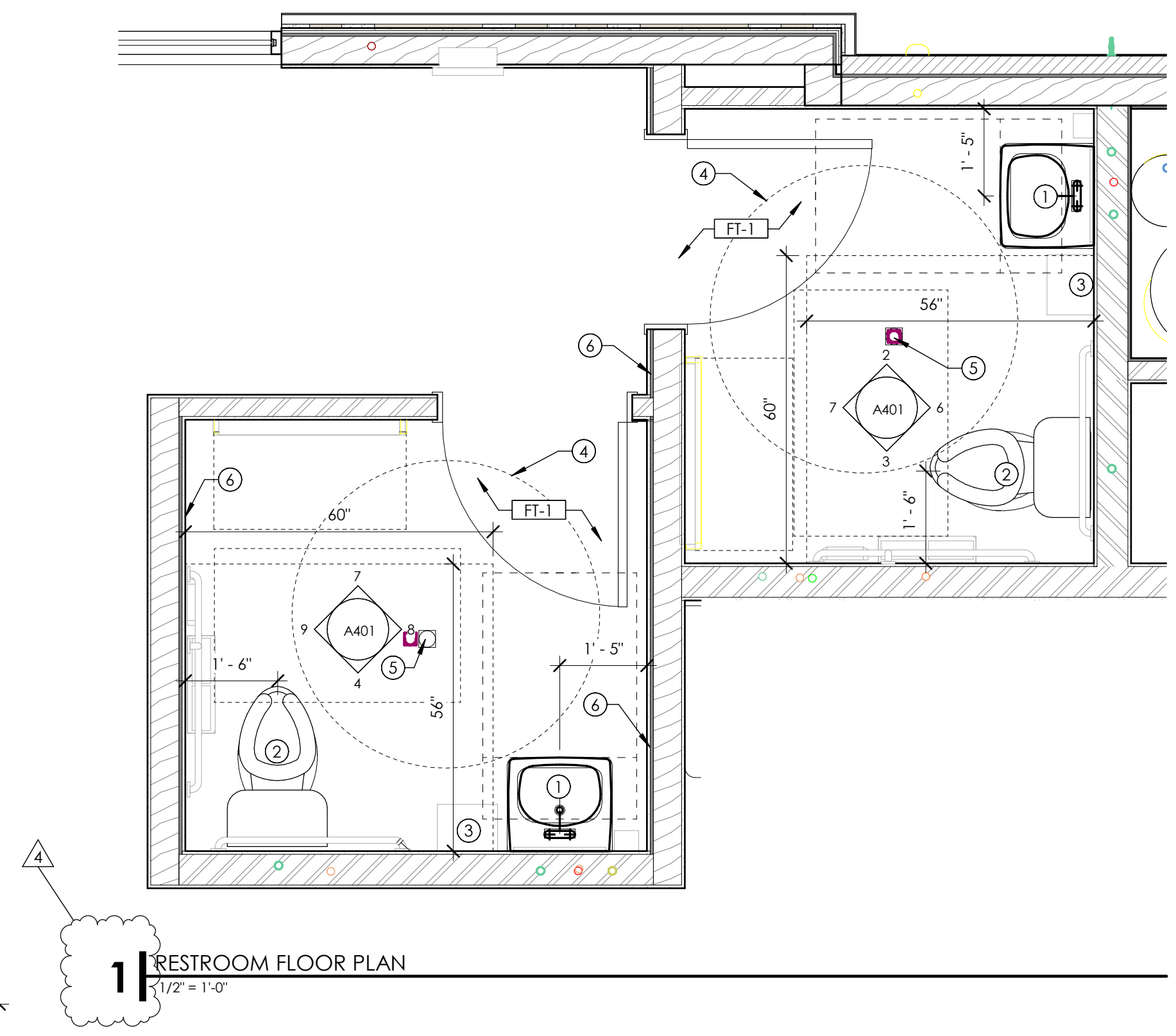
4 RESTROOM ELEVATION - TOILET WALL - 2  
1/2" = 1'-0"



9 RESTROOM ELEVATION - ACCESSORIES WALL - 2  
1/2" = 1'-0"



5 RESTROOM ELEVATION - DOOR WALL - 2  
1/2" = 1'-0"



1 RESTROOM FLOOR PLAN  
1/2" = 1'-0"







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### sheet information

num.	description	date
2	REVISION 02	04-06-22
4	REVISION 04	06-07-22

revisions:  $\Delta$

date: 1-23-2022

project number: MO-53LEE

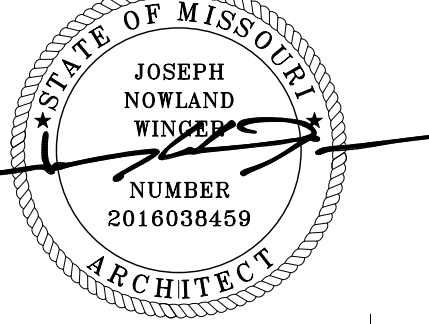
project status: ISSUED FOR CONSTRUCTION

original drawing is 24" x 36"  
current is 6/8/2022 11:50:24 AM

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**MOBETTAHS (TI)** for **LEE'S SUMMIT**

520 NW Chipman Rd  
Lee's Summit, MO 64086

sheet number:

sheet title:

# INTERIOR ELEVATIONS (POS)

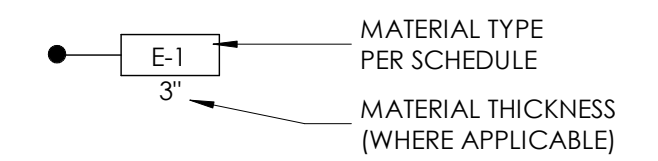
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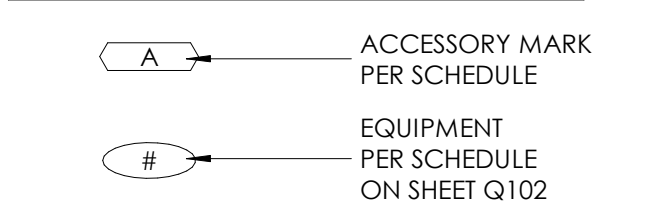
### GENERAL NOTES

- GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS, AND ASSEMBLIES PRIOR TO CONSTRUCTION. REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ARCHITECT.
- COORDINATE INSTALLATIONS OF ALL AFTER CONTRACT ASSEMBLIES WITH OWNER PRIOR TO CONSTRUCTION OF ADJOINING OR RELATED STRUCTURES.
- SEE C4/G002, D1/G002, AND D4/G002 FOR EQUIPMENT BLOCKING AND WALL-MOUNTED ACCESSORIES
- 5" DIAMETER ACCESSIBLE CLEAR FLOOR SPACE PER ICC/ANSI SHOWN ON PLAN FOR REFERENCE

### MATERIAL TAG



### ACCESSORY TAG



### WALL & PAINT FINISH SCHEDULE

MARK	MATERIAL	DESCRIPTION
GB-1	GYP. BD.	MUD/TAPE/SANDED -NO PAINT
FRP-1	FRP (SMOOTH WHITE)	SMOOTH WHITE; PEBBLED; FULL HEIGHT OR AS SHOWN SEE DETAIL 1/A501
MG-##	METAL GUARD	SEE INTERIOR METAL; SCHEDULE ON SHEET A114
MP-##	METAL PANEL	SEE INTERIOR METAL; SCHEDULE ON SHEET A114
MS-##	METAL SURFACE	SEE INTERIOR METAL; SCHEDULE ON SHEET A114
P-1	PAINT (LIGHT GREEN)	SW #6178 "CLARY SAGE"; 2 COATS ACRYLIC ENAMEL OVER 1 COAT BLOCKING PRIMER; EGGSHELL
P-2	PAINT (OFF WHITE)	SW #7571 "CASA BLANCA"; 2 COATS ACRYLIC ENAMEL OVER 1 COAT BLOCKING PRIMER; EGGSHELL
P-3	PAINT (OFF WHITE)	SW #7571 "CASA BLANCA"; SEMI-GLOSS AT DOOR AND FRAME
P-4	PAINT (SIMULATED RUST DINING CANOPY)	SIMULATED RUST FINISH ON DINING CANOPY CORRUGATED PANELS; SIMULATE RUST WITH VINEGAR-PEROXIDE-SALT SOLUTION (TOP ONLY); ALLOW TIME FOR CORROSION TO BE REVIEWED BY ARCHITECT AND OWNER BEFORE INSTALLATION;
P-5	PAINT (PURE WHITE)	SW #7005 "PURE WHITE"; 2 COATS ACRYLIC ENAMEL OVER 1 COAT BLOCKING PRIMER; EGGSHELL
P-6	PAINT (BLACK)	SW #6258 "TRICORN BLACK"; SEMI-GLOSS AT DOOR AND FRAME
P-7	PAINT (CANOPY STEEL)	SW #7047 "PORPOISE"; 2 COATS ACRYLIC ENAMEL OVER 1 COAT BLOCKING PRIMER; EGGSHELL
W-1	DINING WAINSCOT (STANDARD)	DINING WAINSCOT; "X" FRAME; PAINT P-1; SEE DETAILS 1/A512 3/A512
W-2	DINING WAINSCOT (PARTIAL HEIGHT)	DINING WAINSCOT; PAINT P-2; HARDWOOD CAP STAIN TO MATCH WILSONART ACORN VELVET ELM 15602-31; SEE DETAILS 1/A511
W-3	DINING BOARD AND BATTEN	DINING BOARD AND BATTEN; PAINT P-1; PROVIDE 1/2" PLYWOOD BACKING IN WALL FOR BATTENS SEE DETAILS: 4/A512 3/A512
W-4	DINING FAUX STUD WALL	FAUX STUD WALL; PAINT P-2; SEE DETAILS 2/A514
W-5	POS WAINSCOT	POS WAINSCOT; STAIN TO MATCH WILSONART ACORN VELVET ELM 15602-31; SEE DETAILS 3/A551
WC-1	WALLCOVERING	WALL COVERING ABOVE WAINSCOT; WOLF GORDON; SAMOA PALM; GOH 32260677
WP-1	WALK-IN PANEL	WALL PANELS PROVIDED BY WALK-IN COOLER/MANUF.
WT-1	WALL TILE* (FIELD)	WALL TILE; DALTILE; MYTHOLOGY; COLOR SANTORINI MY90; 4" X 12" UNGLAZED; GROUT-MAPEI #27 SILVER
SE-1	SCHLUTER EDGE	JOLLY A 80 AT; SATIN NICKEL ANODIZED ALUMINUM
*TYPICAL		SEAL ALL GROUT WITH COMMERCIAL SEALER

### KEYNOTES

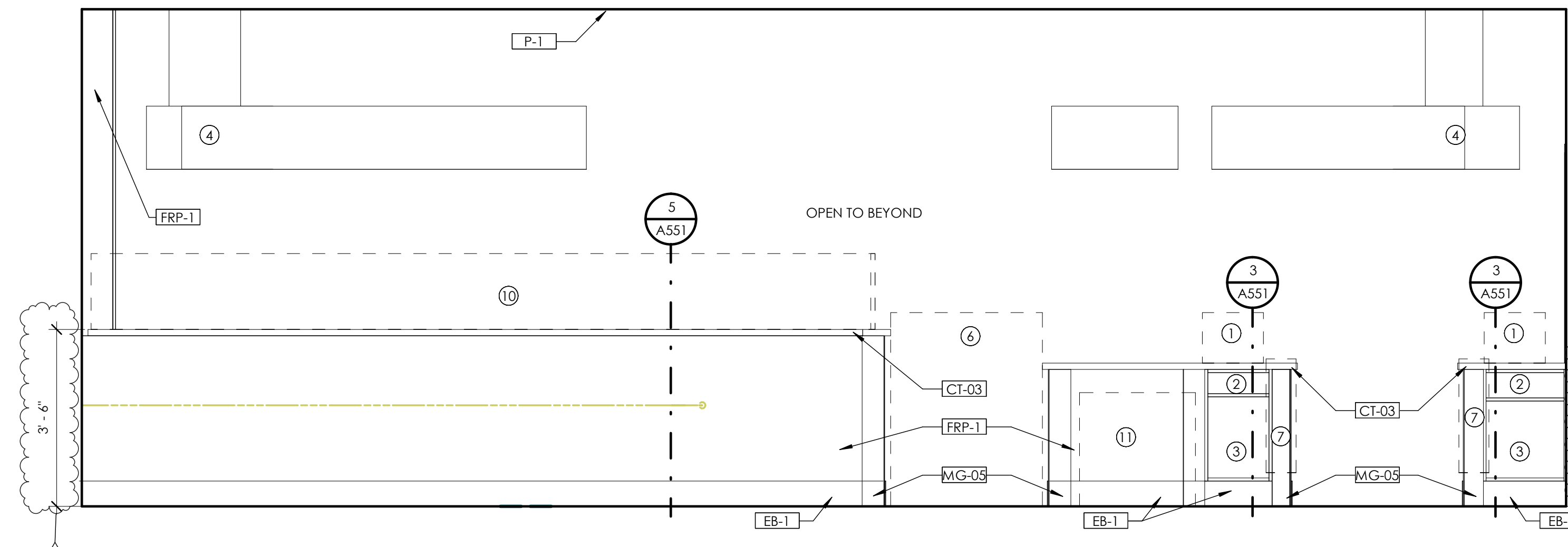
- CASH REGISTER - SEE EQUIPMENT PLAN.
- 6" CLEAR HEIGHT FOR CASH DRAWER
- WHITE MELAMINE BASE CABINETS W/ ADJ. MELAMINE SHELVES
- SIGNAGE/MENU BOARDS, OFOI
- 2 1/2" HOLE
- DISPLAY CABINET - SEE EQUIPMENT PLAN.
- SURFACE MOUNTED CUP DISPENSERS.
- DASHED LINE REPRESENTS BULKHEAD ABOVE, SEE RCP.
- TERMINATE FRP AT EMPLOYEE SIDE OF SERVING LINE.
- CUSTOMER QUEUE SNEEZE GUARD, SEE 8/A551
- UNDERCOUNTER FRIDGE - SEE EQUIPMENT PLAN
- FRP AT EQUIPMENT ALCOVE UNDERNEATH COUNTER
- KITCHEN EQUIPMENT - SEE EQUIPMENT PLAN. USE ONLY CLEAR SILICONE AT CUSTOM TABLE
- POS KITCHEN EQUIPMENT - SEE EQUIPMENT FLOOR PLAN
- DRIVE-UP WINDOW, SEE SHELL DRAWINGS
- DRINK DISPENSER AND ICE MACHINE - COORDINATE WITH EQUIPMENT PLANS
- CORRUGATED METAL MURAL; TBD
- PROVIDE MELAMINE END PANEL; RUN BASE UP PANEL TO MATCH ADJACENT HEIGHT

### BASE FINISH SCHEDULE

MARK	MATERIAL	DESCRIPTION
EB-1	EPOXY BASE	6" HIGH BASE; MATCH FLOOR; SEE SPEC. SEE DETAIL 1/A501
MP-03	BLACK METAL	SEE INTERIOR METAL SCHEDULE ON SHEET A114
SB-1	SCHLUTER COVE	DILEX @AHK80AT, 3/8" RADIUS; SATIN NICKEL ANODIZED ALUMINUM
SB-2	SCHLUTER	DECO; AE 80D; 5/16"; SATIN ANODIZED ALUMINUM
MB-1	WALK-IN BASE	WALK-IN MANUF. SUPPLIED BASE

### COUNTERTOP / MILLWORK SCHEDULE

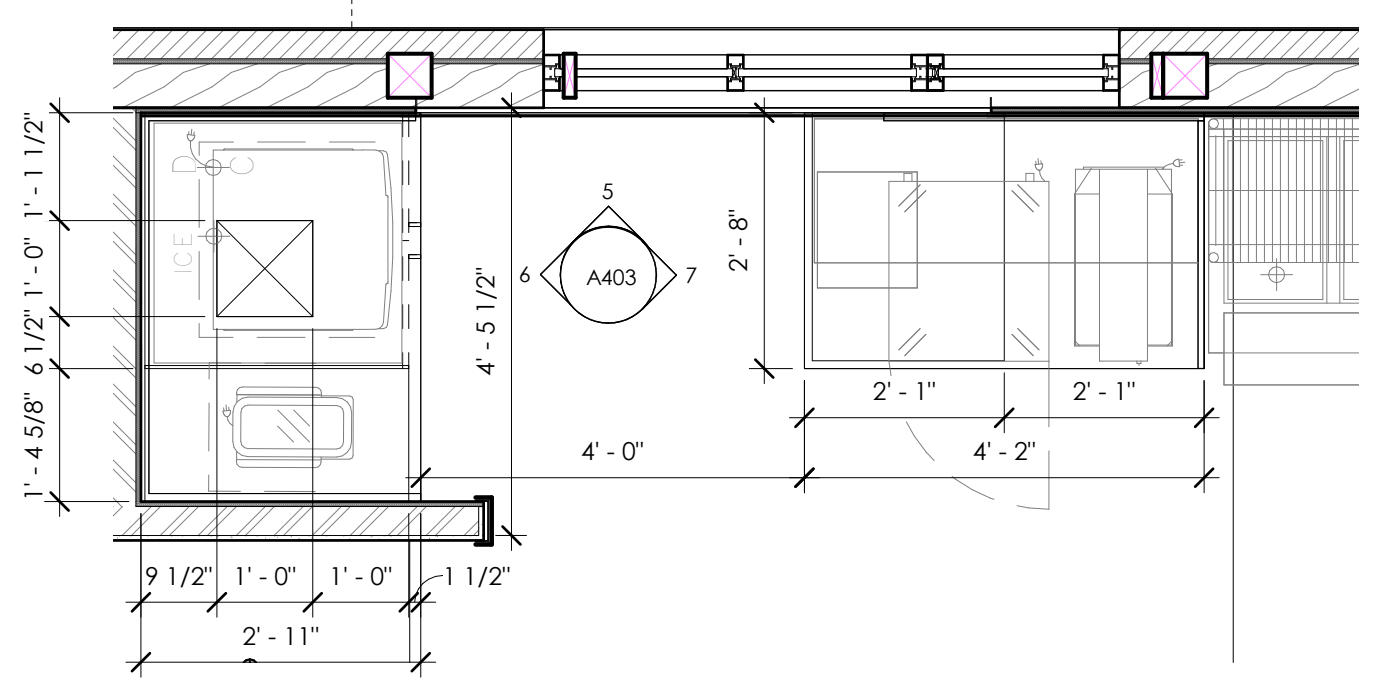
MARK	MATERIAL	DESCRIPTION
CB-01	P-LAM	BASE CABINET; WILSONART; ACORN VELVET ELM
CT-01	P. LAM.	COUNTERTOP; WILSONART BRONZE LEGAXY
CT-02	STAINLESS STEEL COUNTER	COORDINATE WITH INTERIOR METAL SCHEDULE ON SHEET A114 & DETAILS ON A400 SERIES SHEETS
CT-03	QUARTZ	COUNTERTOP; CORIAN; CARBON CEMENT; 3CM



NOTE: ALL DIMENSIONS ARE TO THE FACE OF FINISH COORDINATE WITH FLOOR PLAN FOR ORIENTATION

### 3 POS BACK ELEVATION

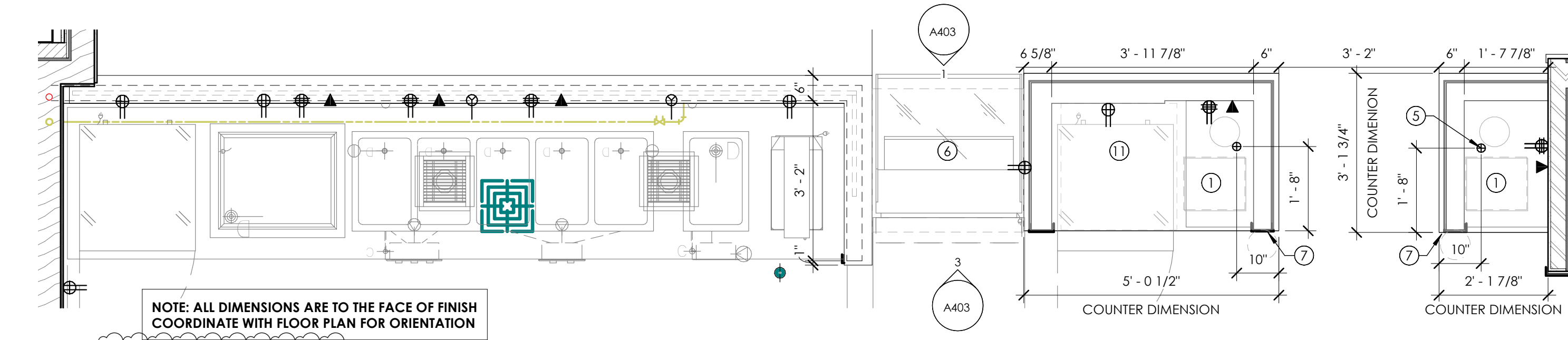
1/2" = 1'-0"



NOTE: ALL DIMENSIONS ARE TO THE FACE OF FINISH COORDINATE WITH FLOOR PLAN FOR ORIENTATION

### 4 DRIVE THRU PLAN VIEW

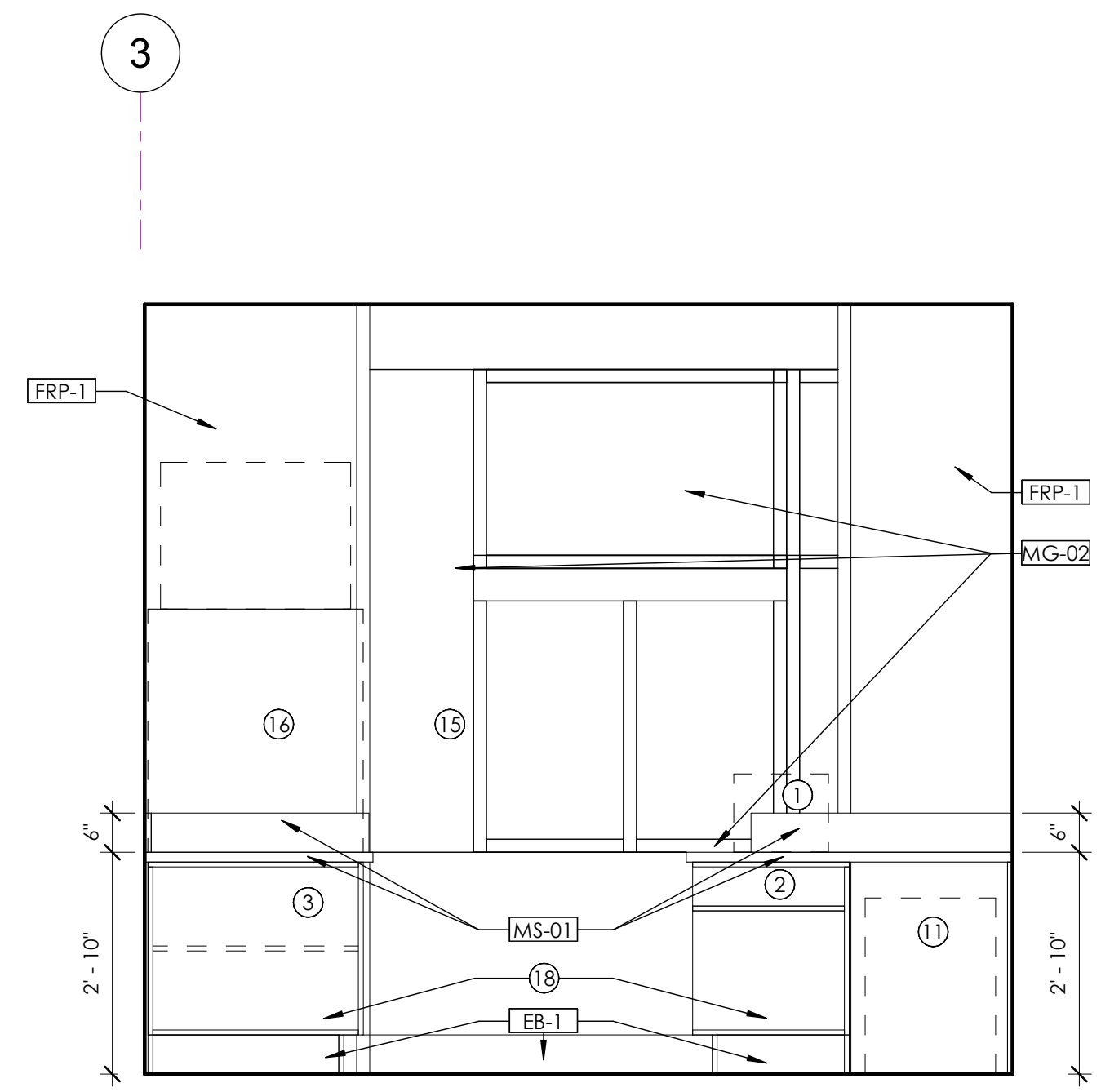
1/2" = 1'-0"



NOTE: ALL DIMENSIONS ARE TO THE FACE OF FINISH COORDINATE WITH FLOOR PLAN FOR ORIENTATION

### 2 POS PLAN VIEW

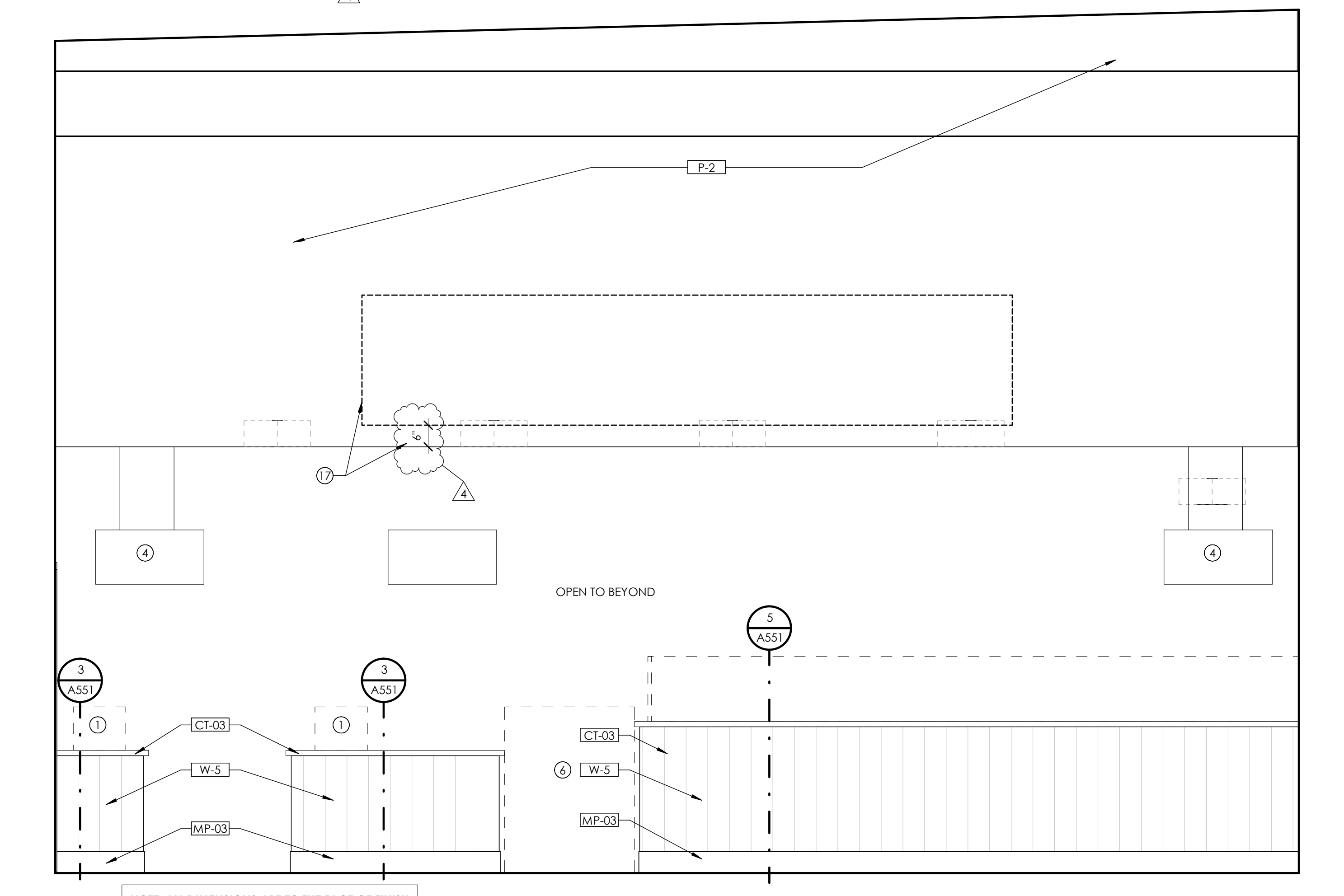
1/2" = 1'-0"



NOTE: ALL DIMENSIONS ARE TO THE FACE OF FINISH COORDINATE WITH FLOOR PLAN FOR ORIENTATION

### 5 DRIVE THRU ELEVATION - A

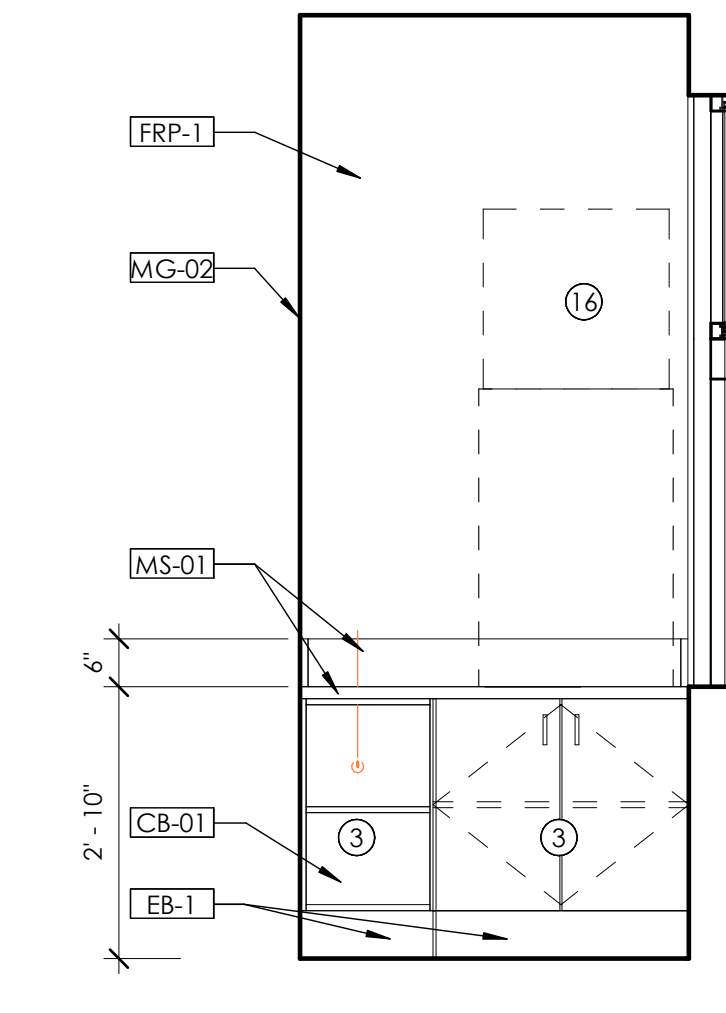
1/2" = 1'-0"



NOTE: ALL DIMENSIONS ARE TO THE FACE OF FINISH COORDINATE WITH FLOOR PLAN FOR ORIENTATION

### 1 POS FRONT ELEVATION

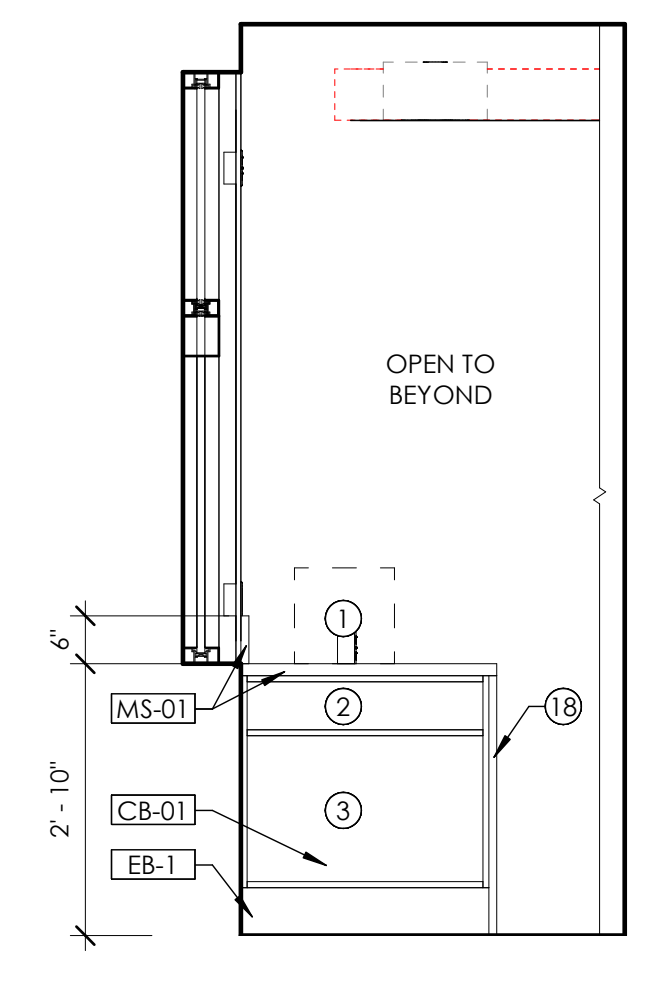
1/2" = 1'-0"



NOTE: ALL DIMENSIONS ARE TO THE FACE OF FINISH COORDINATE WITH FLOOR PLAN FOR ORIENTATION

### 6 DRIVE THRU ELEVATION - B

1/2" = 1'-0"



NOTE: ALL DIMENSIONS ARE TO THE FACE OF FINISH COORDINATE WITH FLOOR PLAN FOR ORIENTATION

### 7 DRIVE THRU ELEVATION - C

1/2" = 1'-0"



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4	REVISION 04	06-07-22

date: 1-23-2022

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project status: ISSUED FOR CONSTRUCTION

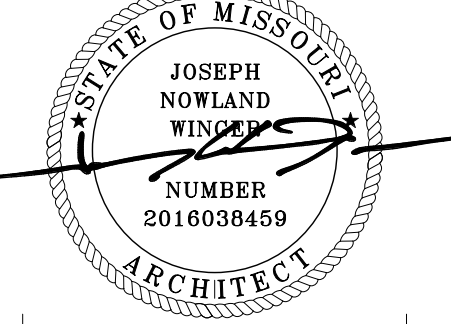
original drawing is 24" x 36"  
current as of: 6/29/2022 11:53:02 AM

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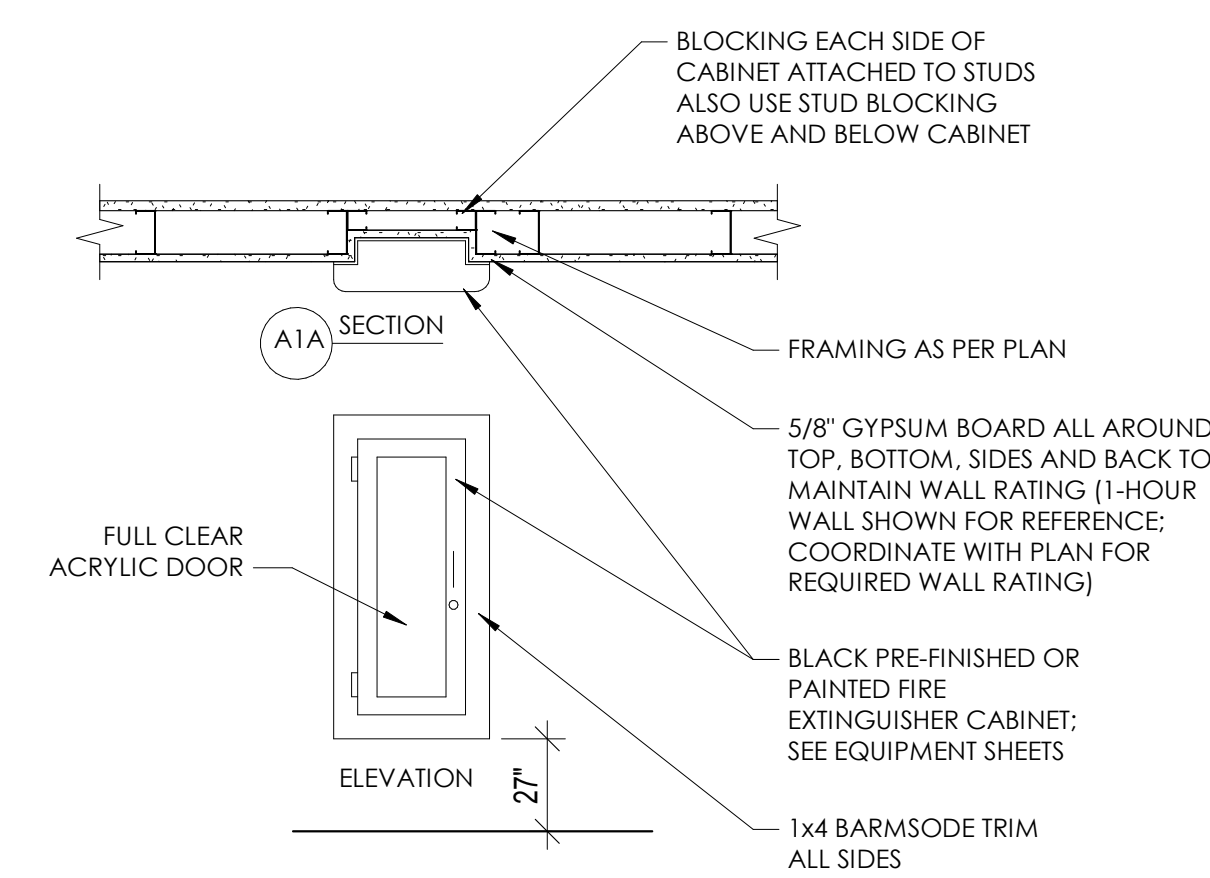
**MOBETTAHS (TI)** for  
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520 NW Chipman Rd  
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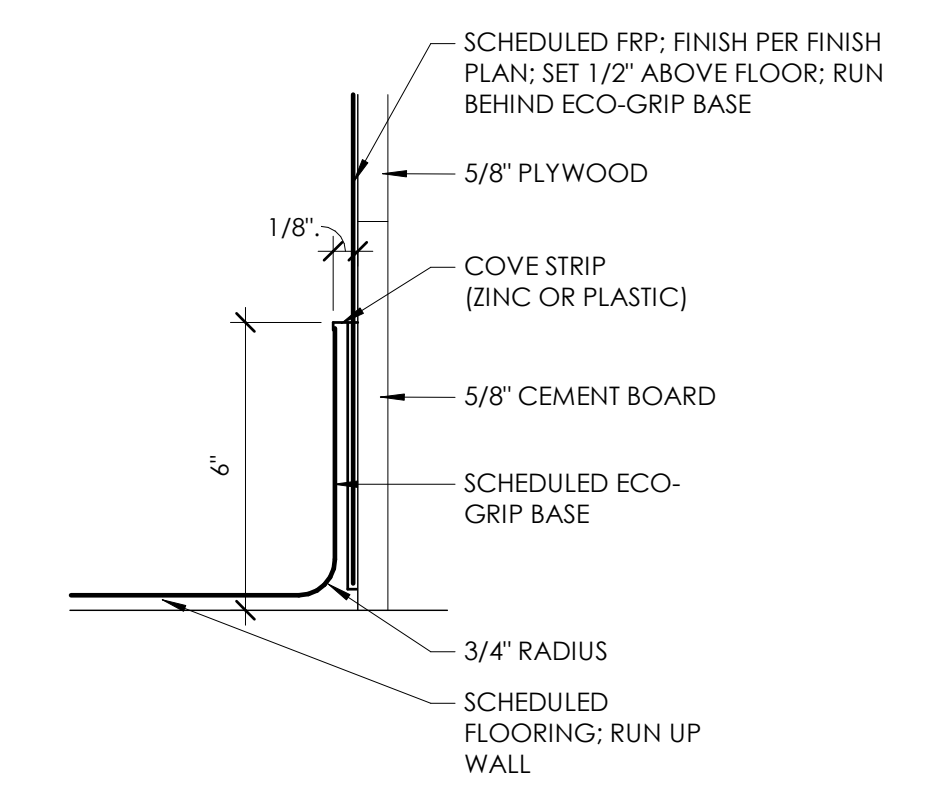
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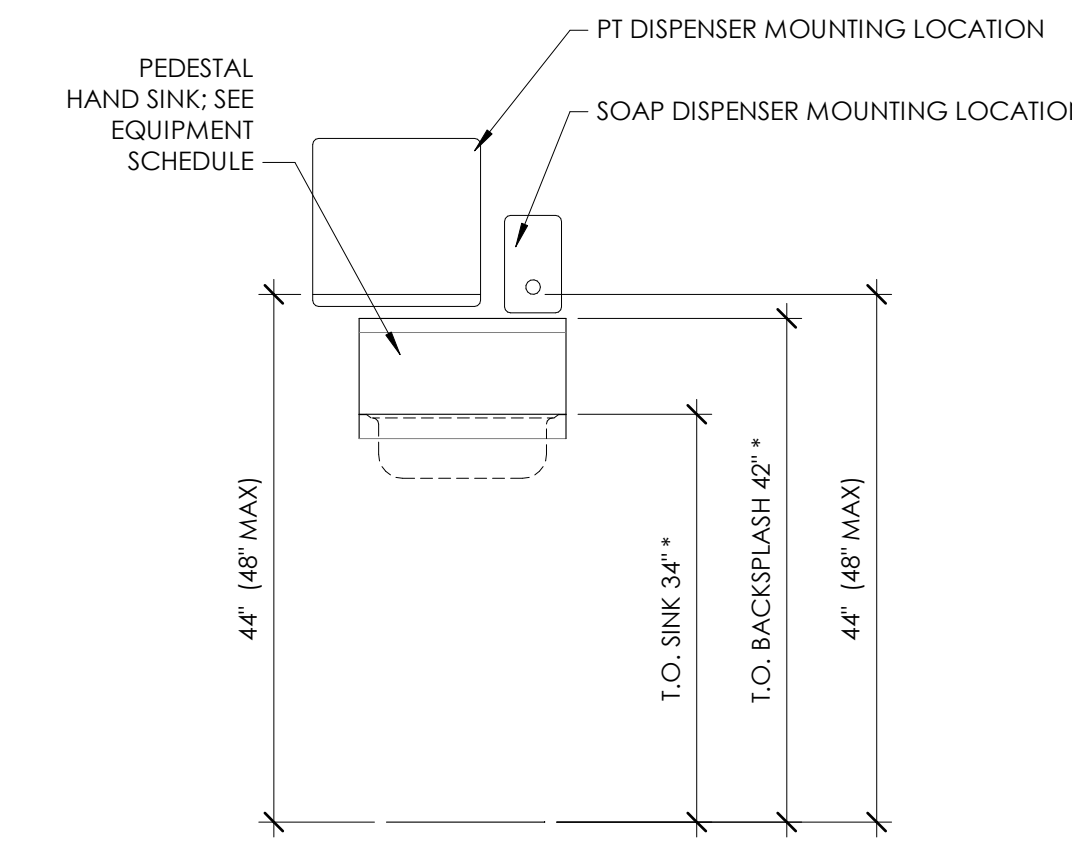
INTERIOR DETAILS



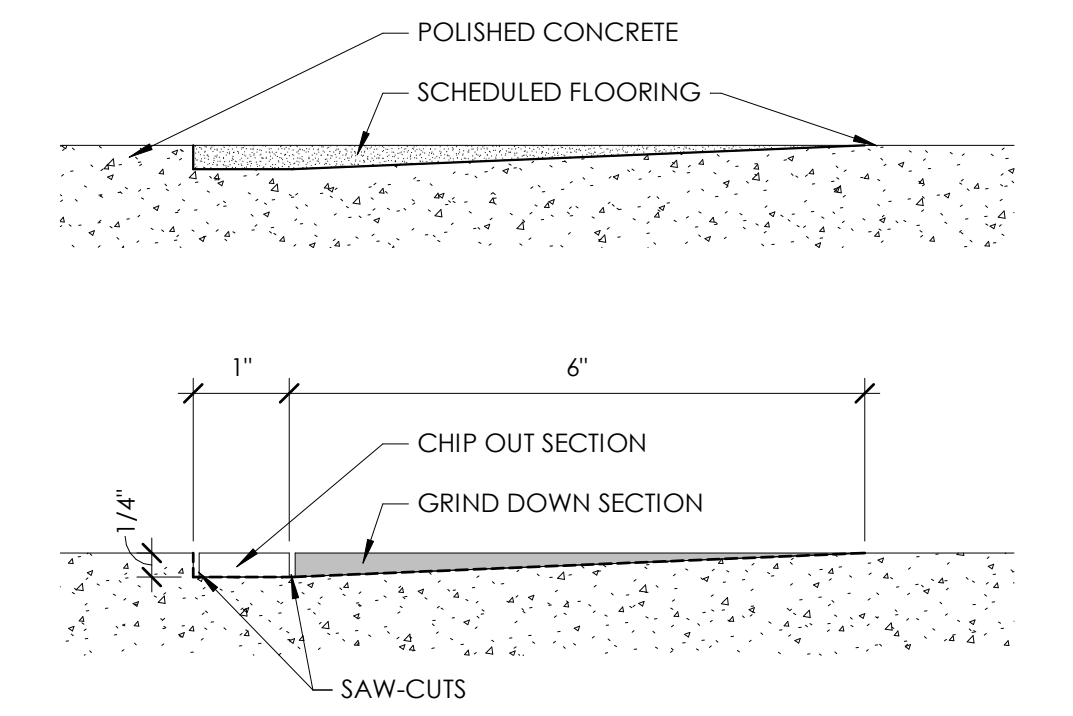
**5** SEMI RECESSED FIRE EXTINGUISHER  
3/4" = 1'-0"



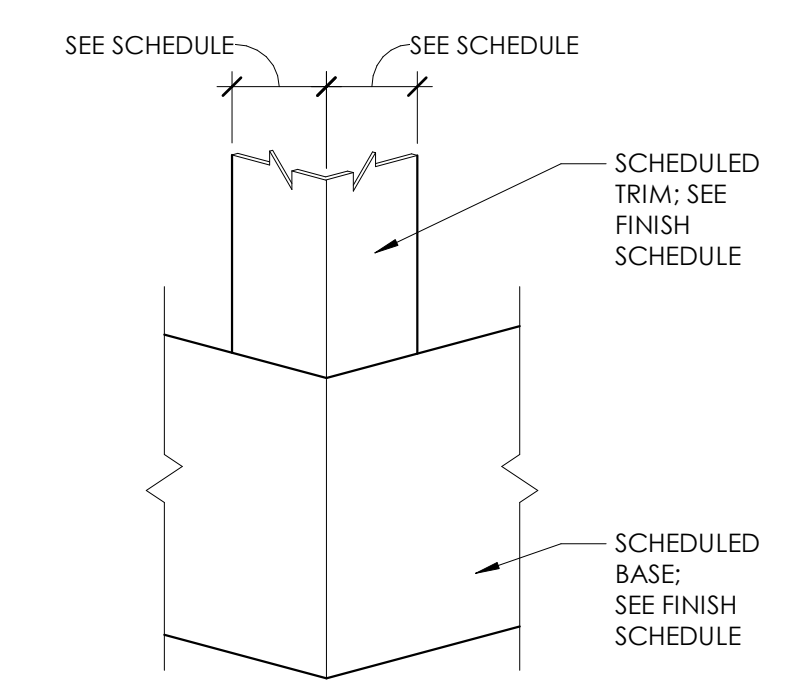
**1** FLOOR - ECO-GRIP BASE DETAIL  
3\"/>



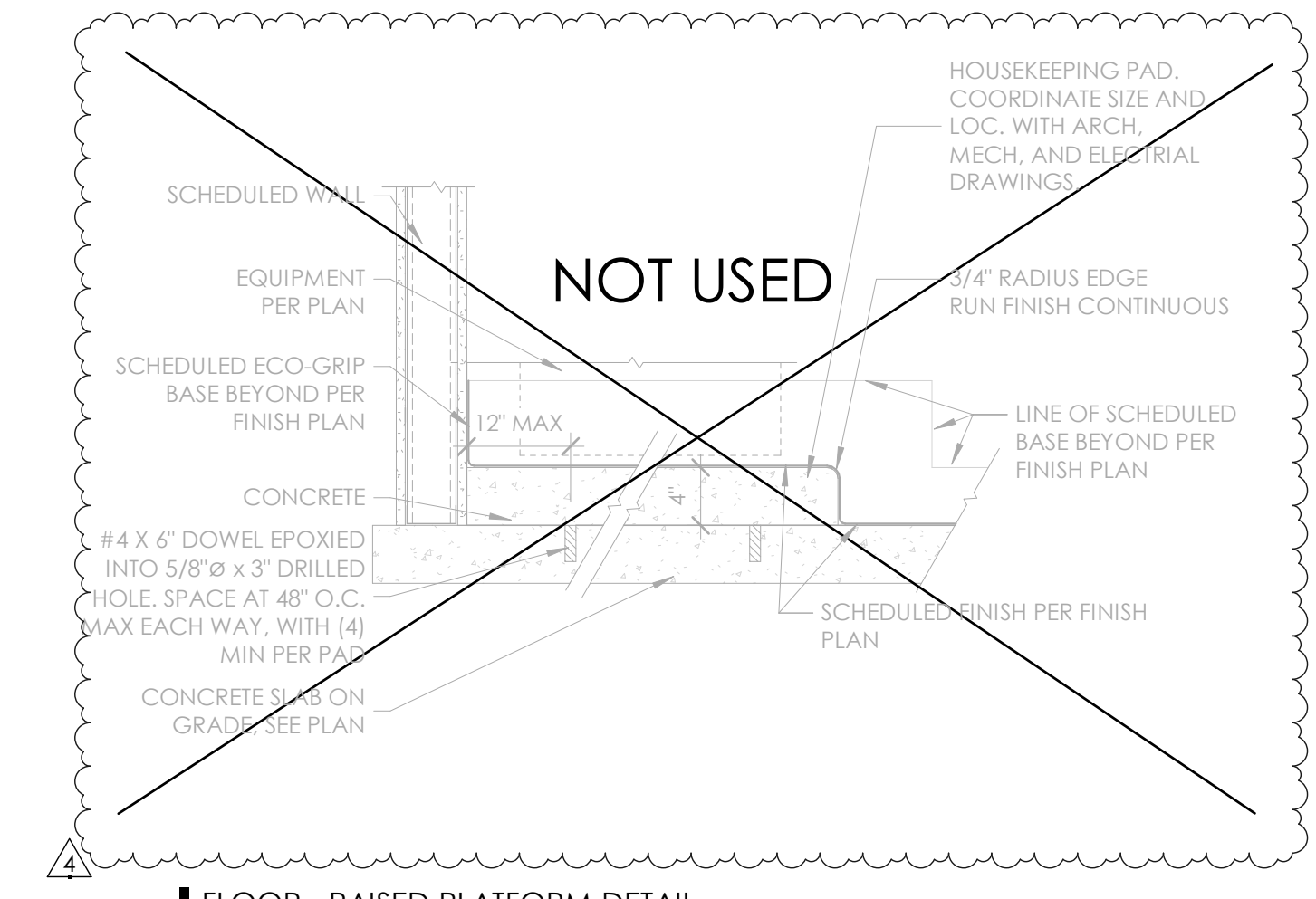
**6** HAND SINK ELEVATION  
3/4\"/>



**2** FLOOR - ECO-GRIP FLOORING TO CONCRETE TRANSITION  
6\"/>



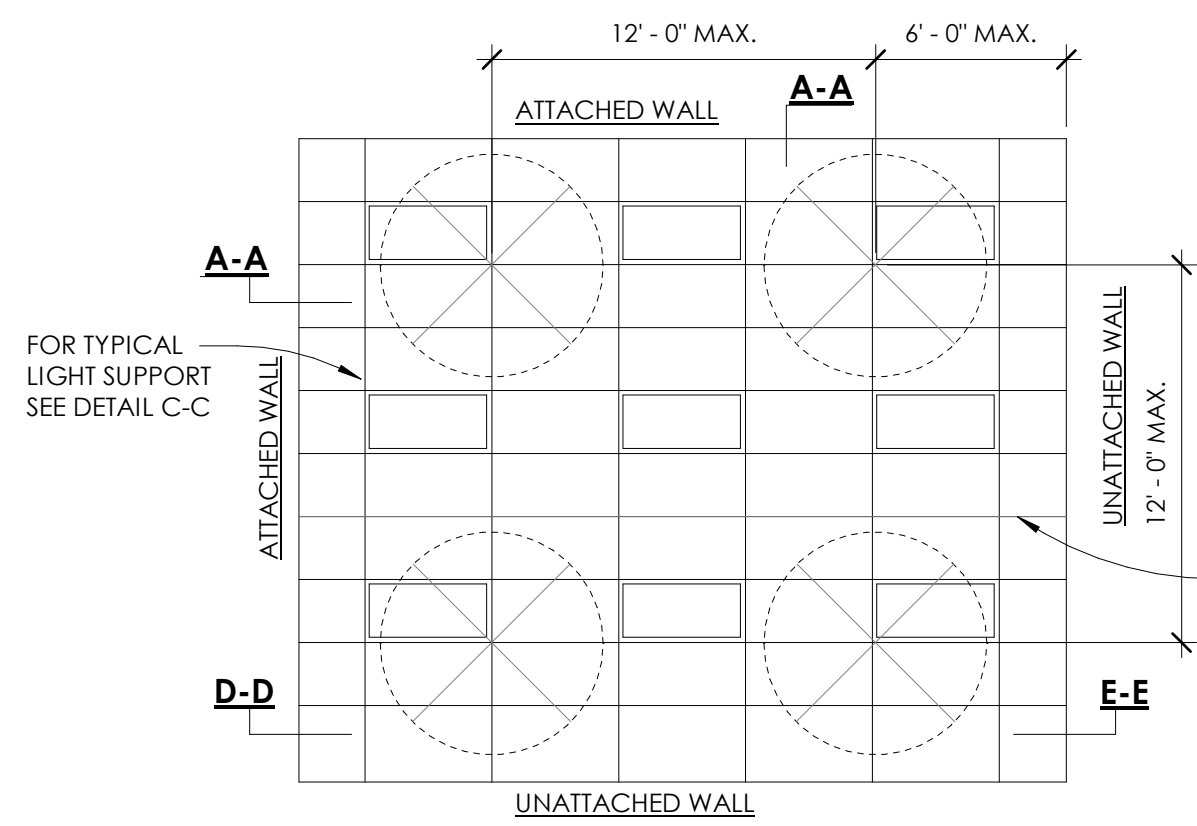
**3** CORNER GAURD DETAIL  
3\"/>



**4** FLOOR - RAISED PLATFORM DETAIL  
1\"/>

NOT USED

sheet number:



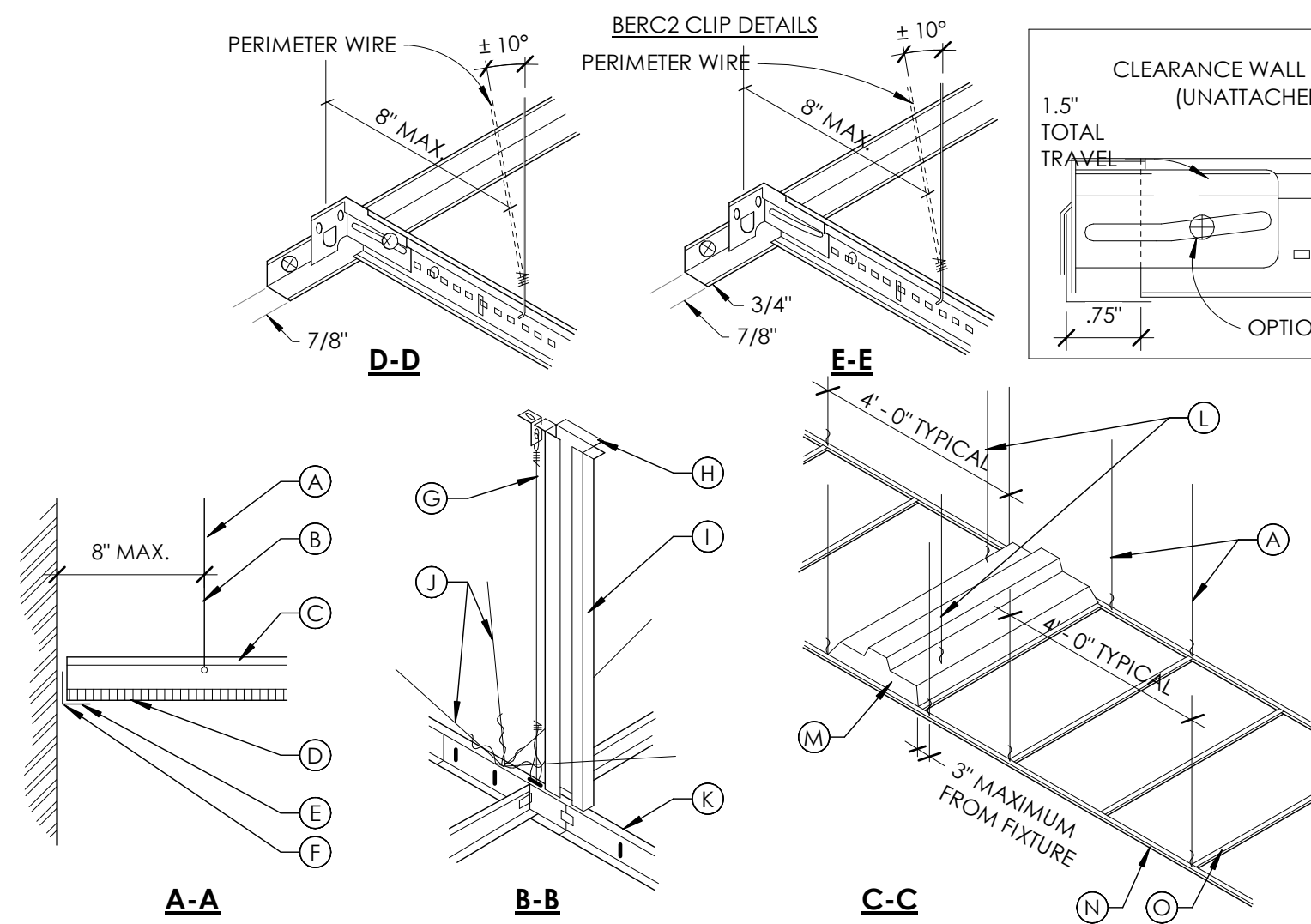
**DETAIL GENERAL NOTES**

1. USE HEAVY DUTY SUSPENSION SYSTEM.
2. CEILING MUST BE ATTACHED ON TWO ADJACENT WALLS.
3. CEILINGS SUBJECT TO SPECIAL INSPECTION.
4. WITH APPROVAL OF AUTHORITIES HAVING JURISDICTION, INSTALL SUSPENSION SYSTEM AND PANELS IN ACCORDANCE WITH THE IBC SECTION 1621.5 WITH THE FOLLOWING EXCEPTIONS:
5. USE OF BERC2 CLIPS WHICH ELIMINATES THE NEED FOR STABILIZER BARS.
6. 7/8" WALL MOLDING INSTEAD OF THE 2" WALL MOLDING.
7. CEILING AREAS LESS THAN 144 SQ. FT. ARE EXEMPT FROM SEISMIC REQUIREMENTS.

VERIFY INSTALLATION OF CEILING TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

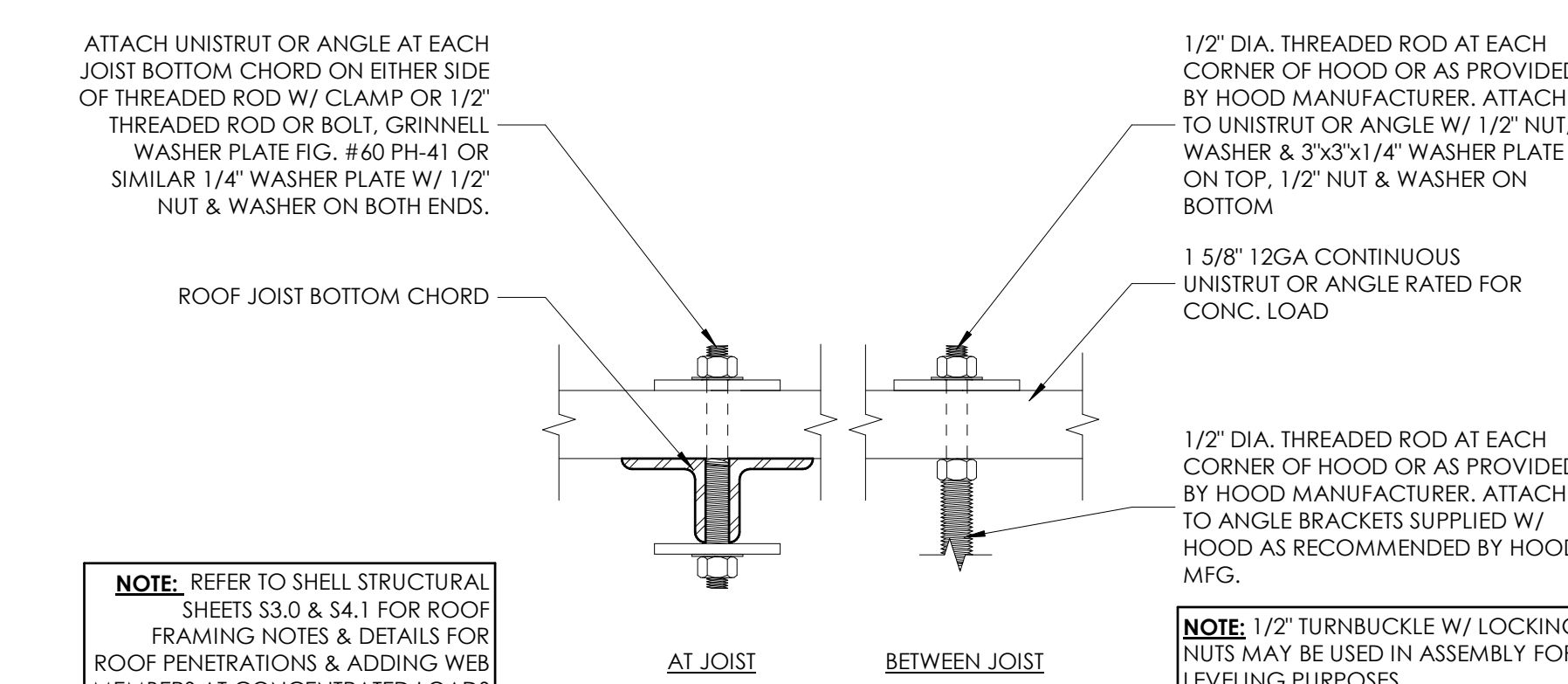
SEISMIC EXPANSION JOINT SEPARATING CEILINGS LARGER THAN 2,500 SQ. FT. SEE DETAIL F-F

**LATERAL FORCE BRACING:**  
 SUSPENDED CEILING BRACING SHALL BE AS PER IBC 2506.2.1 AND SECTION 13.5.6 OF ASCE 7 WHERE HORIZONTAL RESTRAINT IS REQUIRED (CEILING SF EXCEEDING 1,000 SF) HORIZONTAL RESTRAINT SHALL BE AFFECTED BY FOUR NO. 12 GAUGE WIRES SECURED TO THE MAIN RUNNER WITHIN 2" OF THE CROSS RUNNER INTERSECTION AND SPAYED 90° FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45° FROM THE PLANE OF THE CEILING. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12'-0" O.C. MAX. IN BOTH DIRECTIONS W/ THE FIRST POINT WITHIN 8'-0" FROM EACH WALL AT ONE CORNER OF THE ROOM AND NOT TO EXCEED 6'-0" MAX. FROM ANY WALL AT THE PERIMETER OF APPLICATION. ATTACHMENT OF ALL RESTRAINT WIRES SHALL BE AS PER CISCA STANDARDS AND SHALL BE ADEQUATE FOR THE LOAD IMPOSED, 400LBS. MINIMUM. (SEE ABOVE GENERAL NOTE)

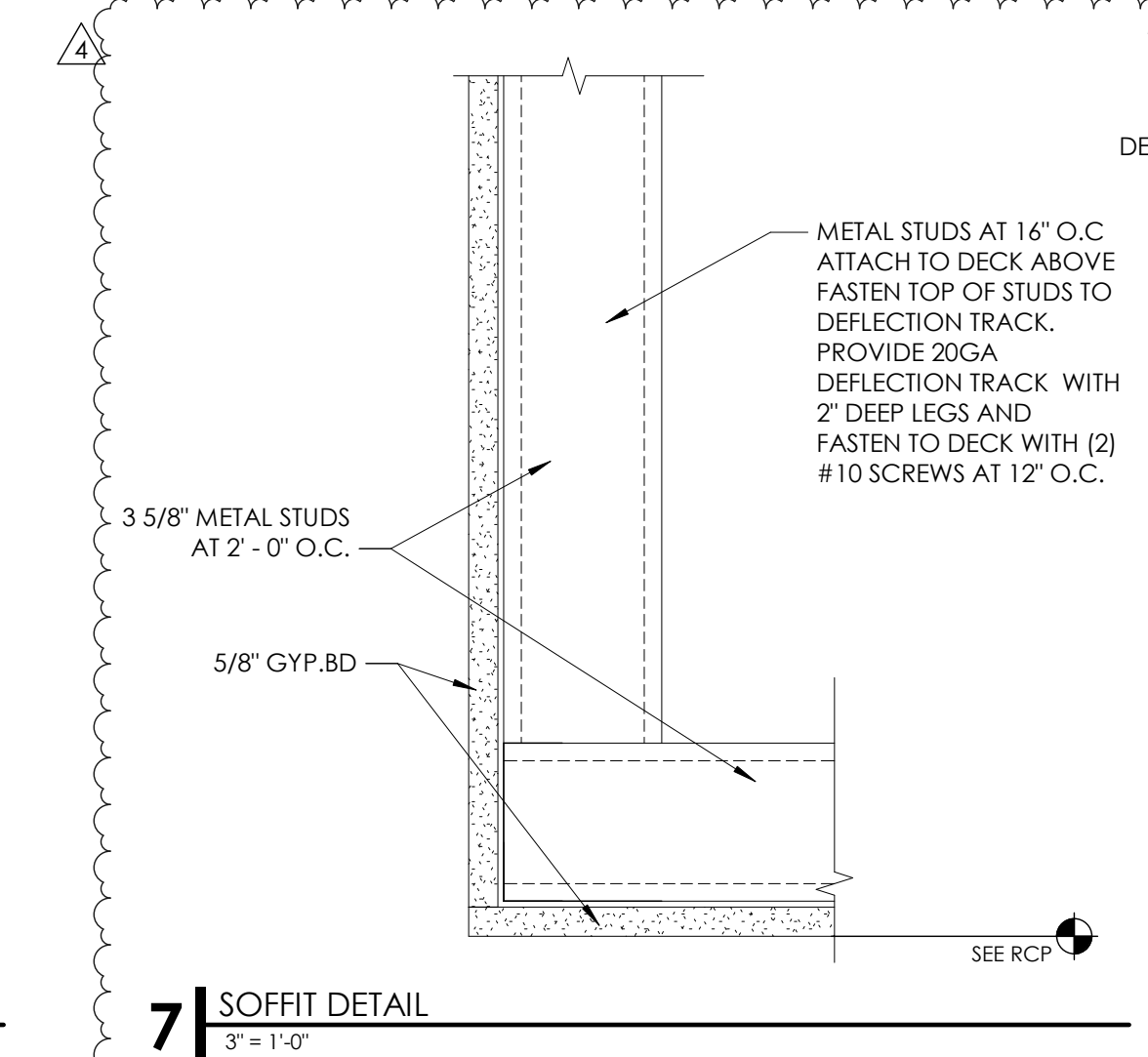


**DETAIL KEY NOTES**

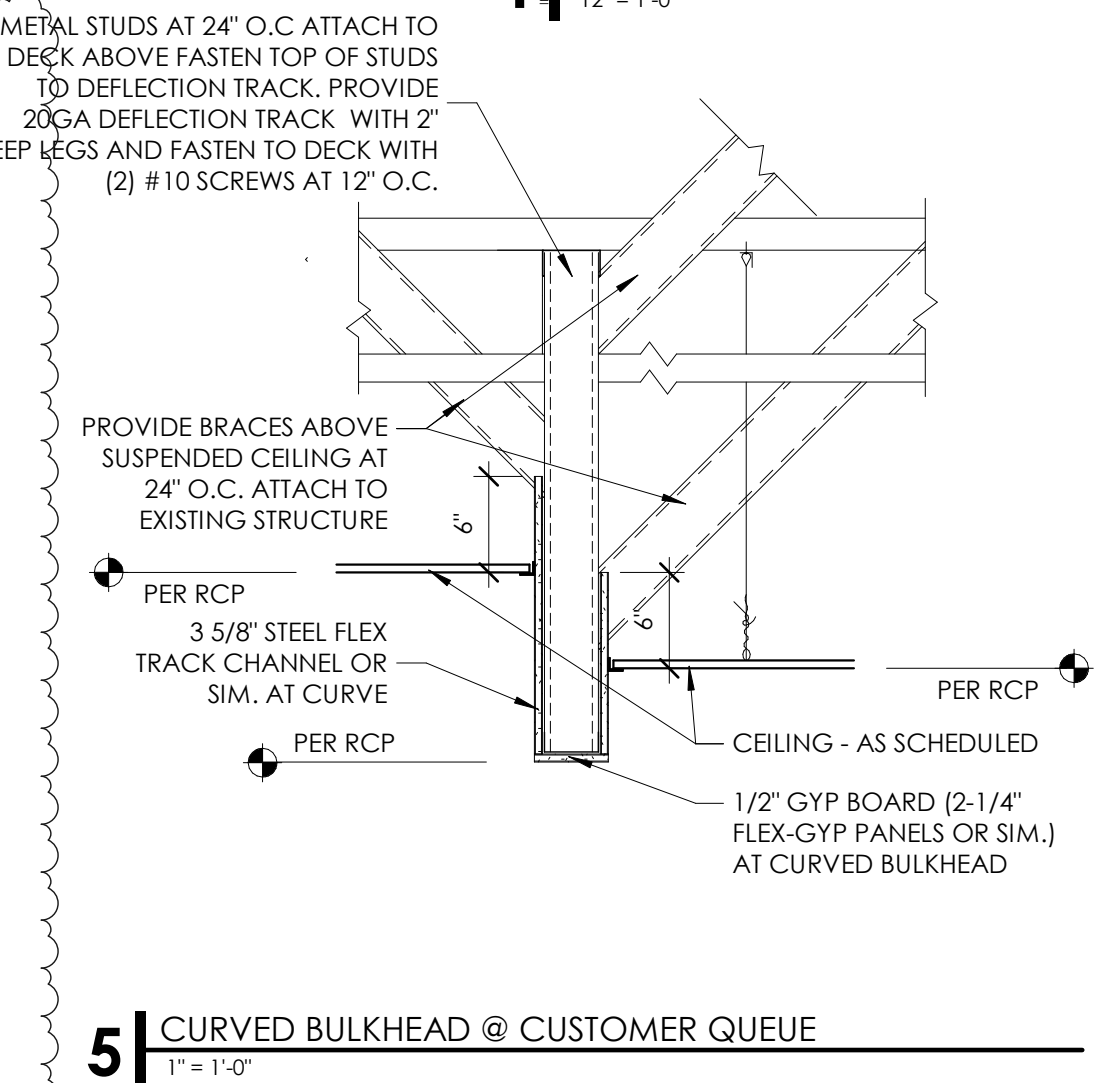
- (A) 12 GA. HANGER WIRE (EVERY 16 SQ. FT. MIN.)
- (B) 3 TURNS MIN. (1-1/2" RUN)
- (C) MAIN RUNNER OR CROSS TEE AS SCHEDULED
- (D) CEILING AS SCHEDULED
- (E) WALL ANGLE
- (F) WALL CONNECTION, ANCHOR TO STRUCTURAL ELEMENT
- (G) ACOUSTICAL CEILING SUSPENSION WIRE (TEST FOR 400 LBS.)
- (H) FASTEN TO DECK
- (I) 2" x 18 GA. STEEL STUD (OR ACCEPTED ALTERNATE) SCREW ATTACHED TO MAIN TEE AND TO STRUCTURE ABOVE AT EACH SEISMIC RESTRAINT LOCATION
- (J) 12 GA. SPAYED SEISMIC BRACING WIRES (45° OFF OF HORIZ., EVERY 144 SQ. FT. MIN.) SECURED TO STRUCTURE PER CISCA STANDARDS, DO NOT INSTALL PERPENDICULAR TO JOISTS
- (K) MAIN TEE
- (L) SLACK WIRES
- (M) LIGHT FIXTURE AS SELECTED
- (N) HEAVY DUTY MAIN 3" MAX. RUNNER
- (O) CROSS TEE
- (P) JOIST WEB MEMBERS
- (Q) BOTTOM JOIST CHORD



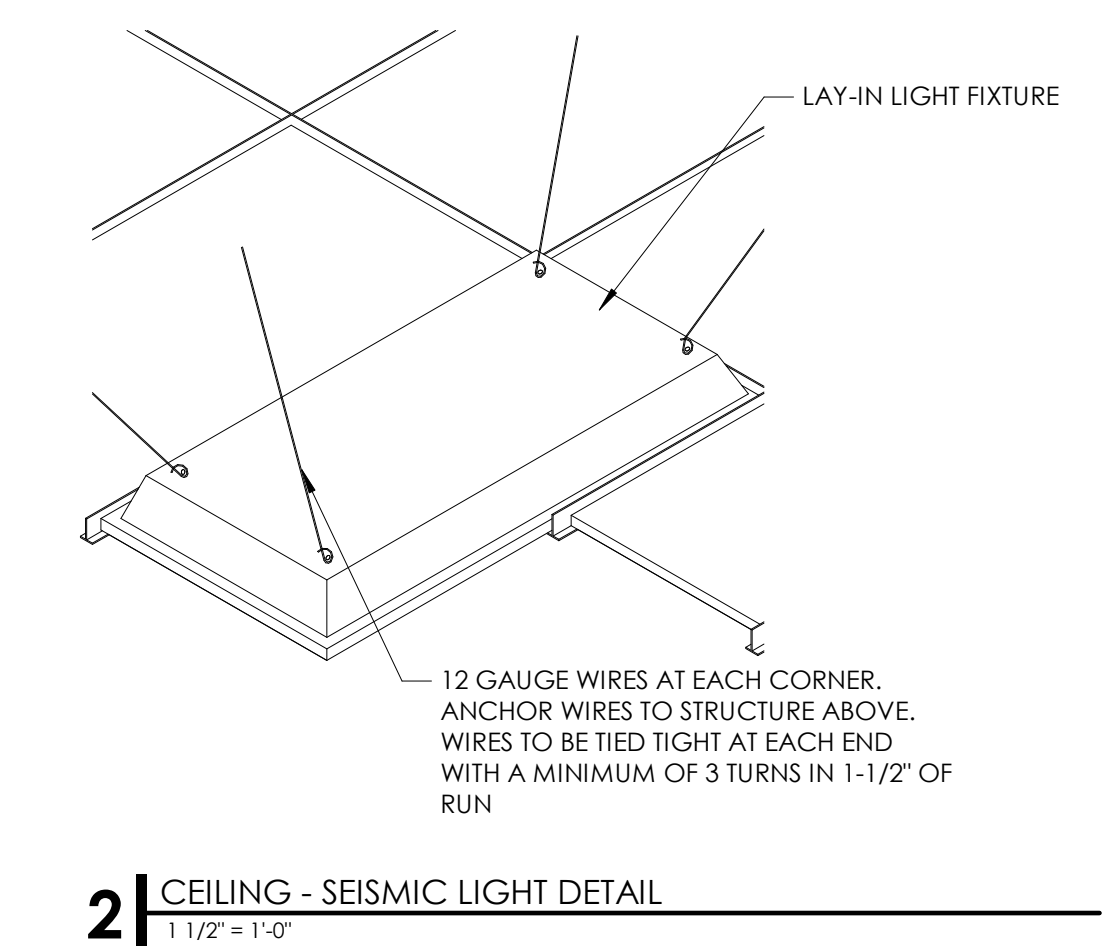
**9 | HOOD SUPPORT**  
3'-1'-0"



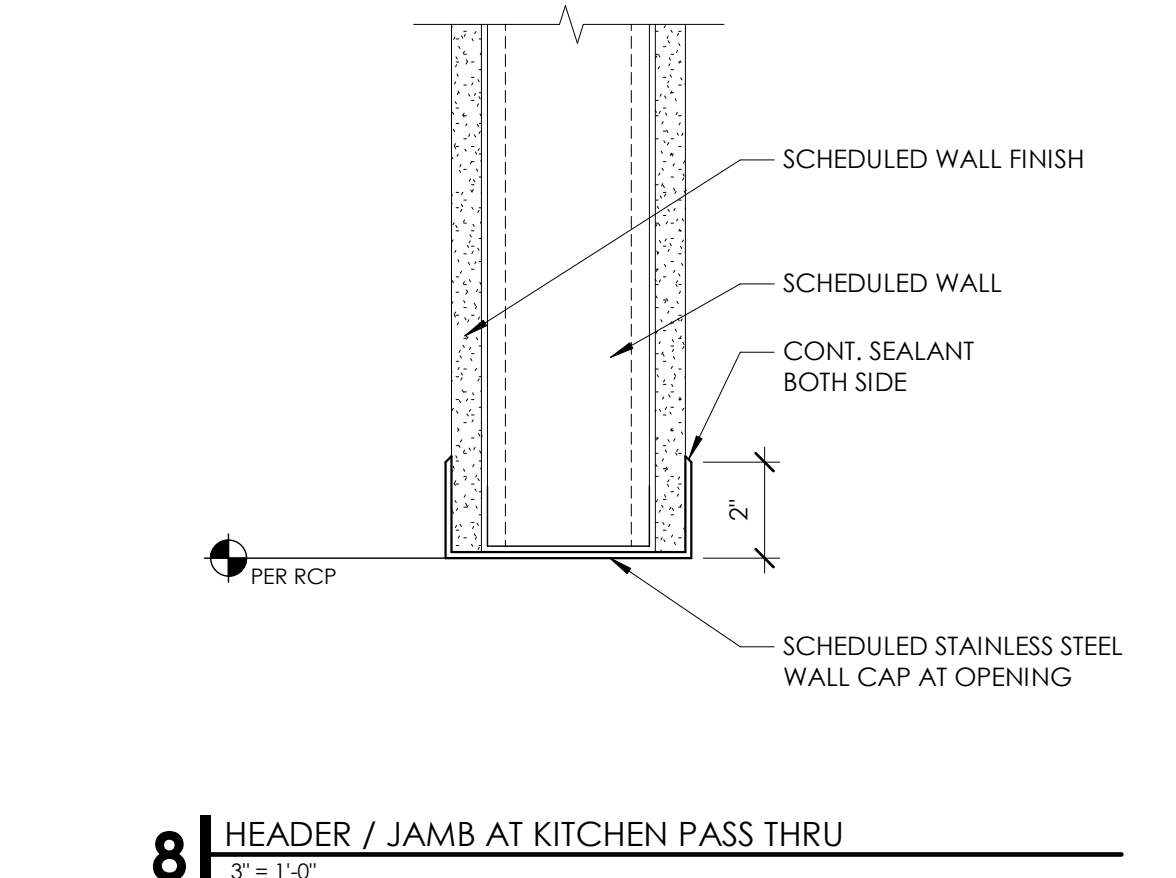
**7 | SOFFIT DETAIL**  
3'-1'-0"



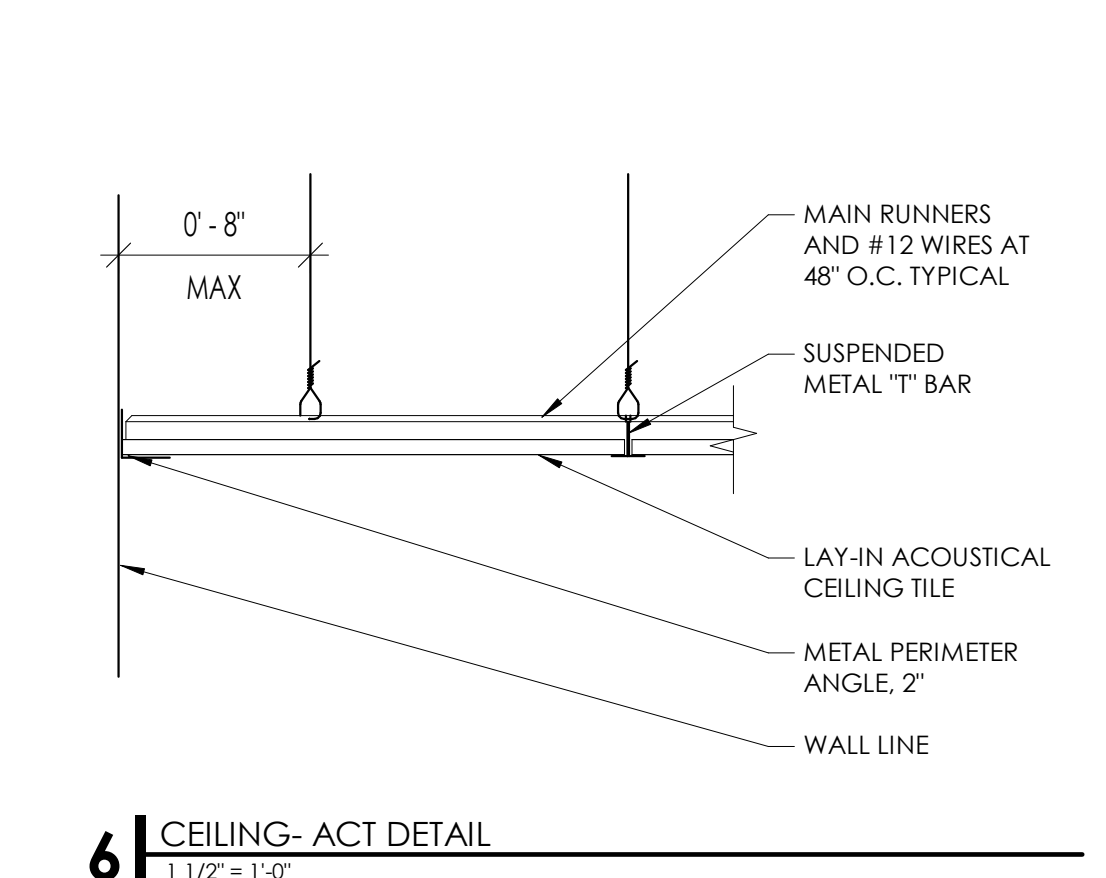
**5 | CURVED BULKHEAD @ CUSTOMER QUEUE**  
1'-1'-0"



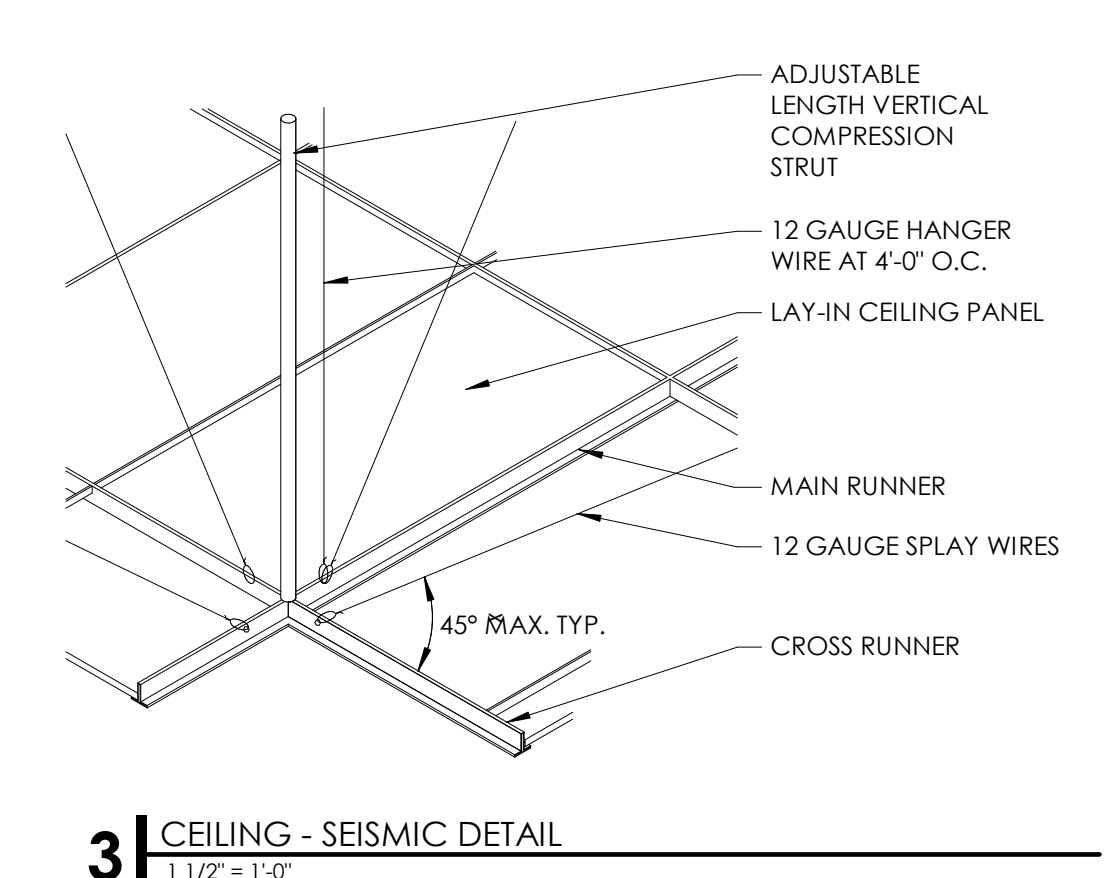
**2 | CEILING - SEISMIC LIGHT DETAIL**  
1'-1'-0"



**8 | HEADER / JAMB AT KITCHEN PASS THRU**  
3'-1'-0"



**6 | CEILING - ACT DETAIL**  
1'-1'-0"



**3 | CEILING - SEISMIC DETAIL**  
1'-1/2'-1'-0"

**SUSPENDED CEILING SYSTEM NOTES:**

- 1- SUSPENDED CEILING SYSTEMS SHALL BE INSTALLED IN COMPLIANCE WITH IBC, ASCE 7-05, 13.5.6 AND ASTM E580
- 2- ALL CEILINGS ARE TO HAVE VERTICAL COMPRESSION STRUTS, SEISMIC BRACING, HANGERS, ETC., AS REQUIRED BY IBC, ASCE 7-05, 13.5.6 AND ASTM E580
- 3- HEAVY DUTY T-BAR GRID SYSTEM REQUIRED. WITH OF PERIMETER SUPPORTING CLOSURE ANGLE TO BE 7/8" PERIMETER CLOSURE ANGLE WITH CODE APPROVED SEISMIC CLIPS. ATTACH ONE END OF THE CEILING GRID TO THE CLOSURE ANGLE IN EACH DIRECTION. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE 3/4" CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON THE CLOSURE ANGLE. WITH HORIZONTAL STRUT STABILIZERS TO PREVENT THE SPREADING OF THE RUNNERS.
- 4- SPAY WIRES AS REQUIRED BY IBC, ASCE 7, AND CISCA 3-4. ALL SPAY WIRES ARE TO BE IN LINE WITH ATTACHED COMPONENT AND ARE TO BE TIED TIGHT AT EACH END WITH A MINIMUM OF 3 TURNS IN 1-1/2" OF RUN.
- 5- ANCHOR WIRES ONLY TO STRUCTURAL MEMBERS, NOT TO ROOF DECK OR BRIDGING. WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT, NOT SHALL THEY BE LESS THAN 6" TO ANY UNBRACED HORIZONTAL PIPING OR DUCTWORK. A TRAPEZOID OR SIMILAR DEVICE SHALL BE USED WHERE OBSTRUCTIONS OCCUR.

- 6- SUPPORT ALL RUNNERS AT 8" MAXIMUM FROM WALL OR CEILING DISCONTINUITY.
- 7- FOUR-WAY DIAGONAL BRACING AND COMPRESSION STRUTS 12'-0" O.C. EACH WAY.
- 8- PROVIDE CEILING HORIZONTAL RESTRAINT TO THE STRUCTURE ABOVE FOR CEILING AREAS GREATER THAN 1,000 SQUARE FEET TO MINIMIZE DIAPHRAGM LOADS.
- 9- PROVIDE SEISMIC SEPARATION JOINTS OR FULL HEIGHT PARTITIONS FOR CEILING AREAS GREATER THAN 2,500 SQUARE FEET.
- 10- CHANGES IN CEILING PLANE ELEVATION SHALL BE PROVIDED WITH POSITIVE BRACING.
- 11- CABLE TRAYS AND ELECTRICAL CONDUITS SHALL BE SUPPORTED AND BRACED INDEPENDENT FROM THE SUSPENDED CEILING SYSTEM.
- 12- PROVIDE 2" OVERSIZE RINGS, SLEEVES OR ADAPTERS THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT FOR AT LEAST 1" MOVEMENT IN ALL DIRECTIONS FOR FIRE SPRINKLER HEADS AND OTHER SIMILAR PENETRATIONS.

**4 | CEILING - SUSPENDED CEILING NOTES**  
1'-1'-0"

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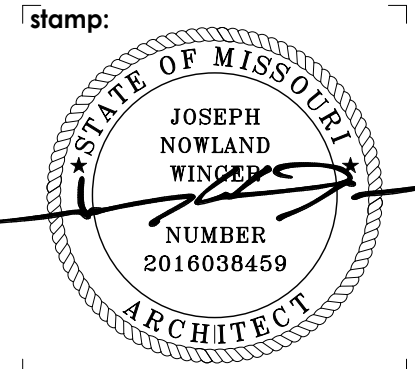
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revision:	description	date
4	REVISION 04	06-07-22

date: 1-23-2022  
 project number: MO-53LEE  
 project status: ISSUED FOR CONSTRUCTION  
 original drawing is 24" x 36"  
 current as of: 6/29/2022 10:00:04 AM

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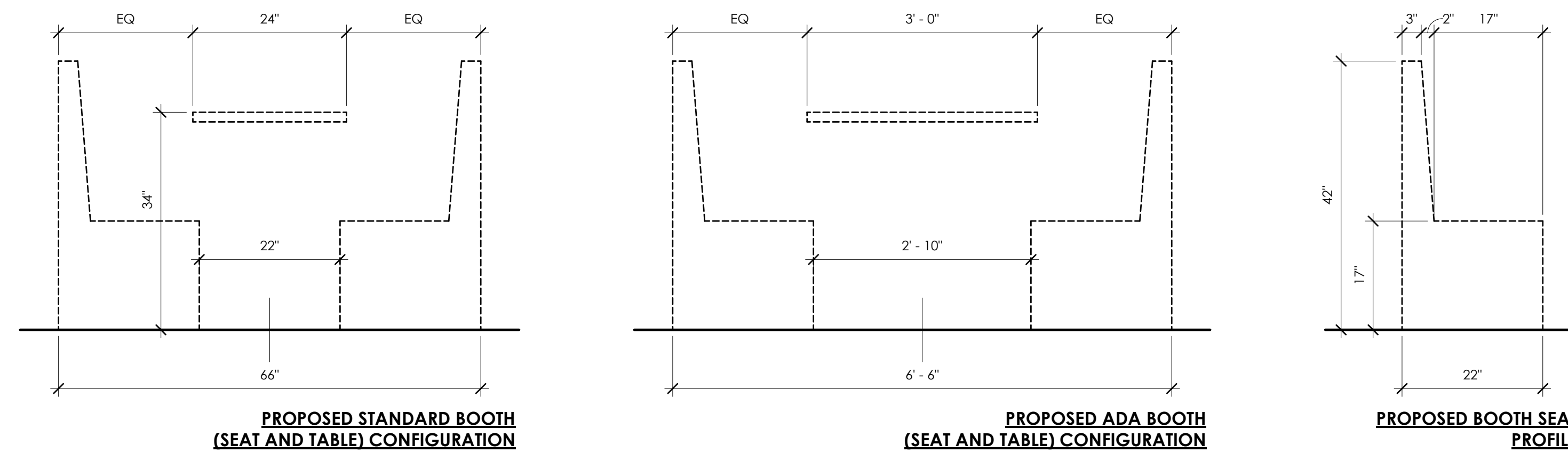
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sheet number:  
**MOBETTAHS (TI)**  
 for  
**LEE'S SUMMIT**  
 520 NW Chipman Rd  
 Lee's Summit, MO 64086

interior details (ceilings)

sheet title:  
**A502**



- GENERAL NOTES:**  
 JALOUSIE WINDOW  
 (BASIS OF DESIGN - OR APPROVED EQUAL)
- CRL -10 BLADE WITH LOUVER STRIP HARDWARE IN BLACK FINISH
  - LOUVER WINDOW SECURITY CLIP
  - CLEAR 3/16" x 4" WIDE LOUVER GLASS
  - PROVIDE SET SCREW(S) TO MAKE BLADES FIXED

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**2** BOOTH DIMENSIONS  
 3/4" = 1'-0"

sheet information

revisions:  $\Delta$

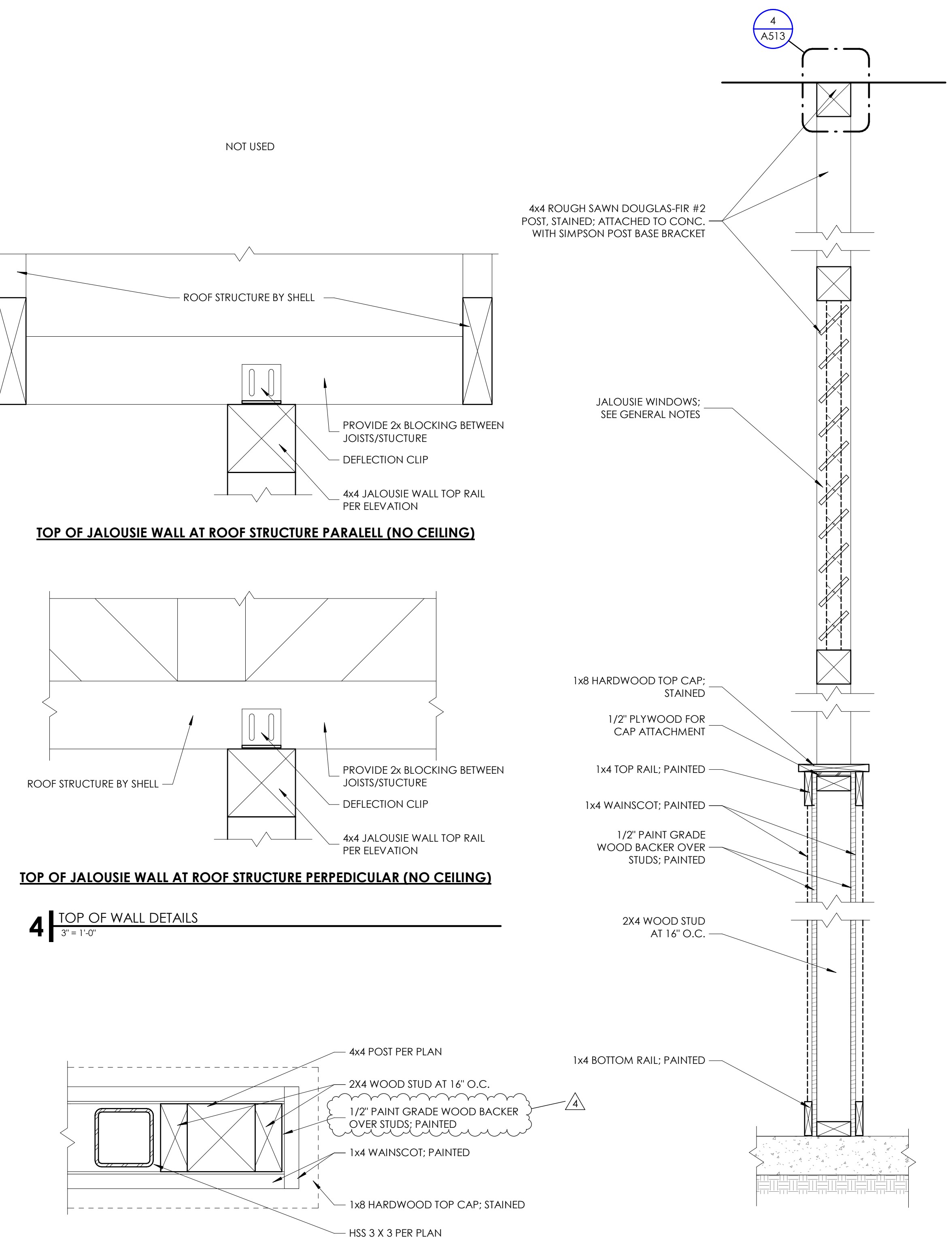
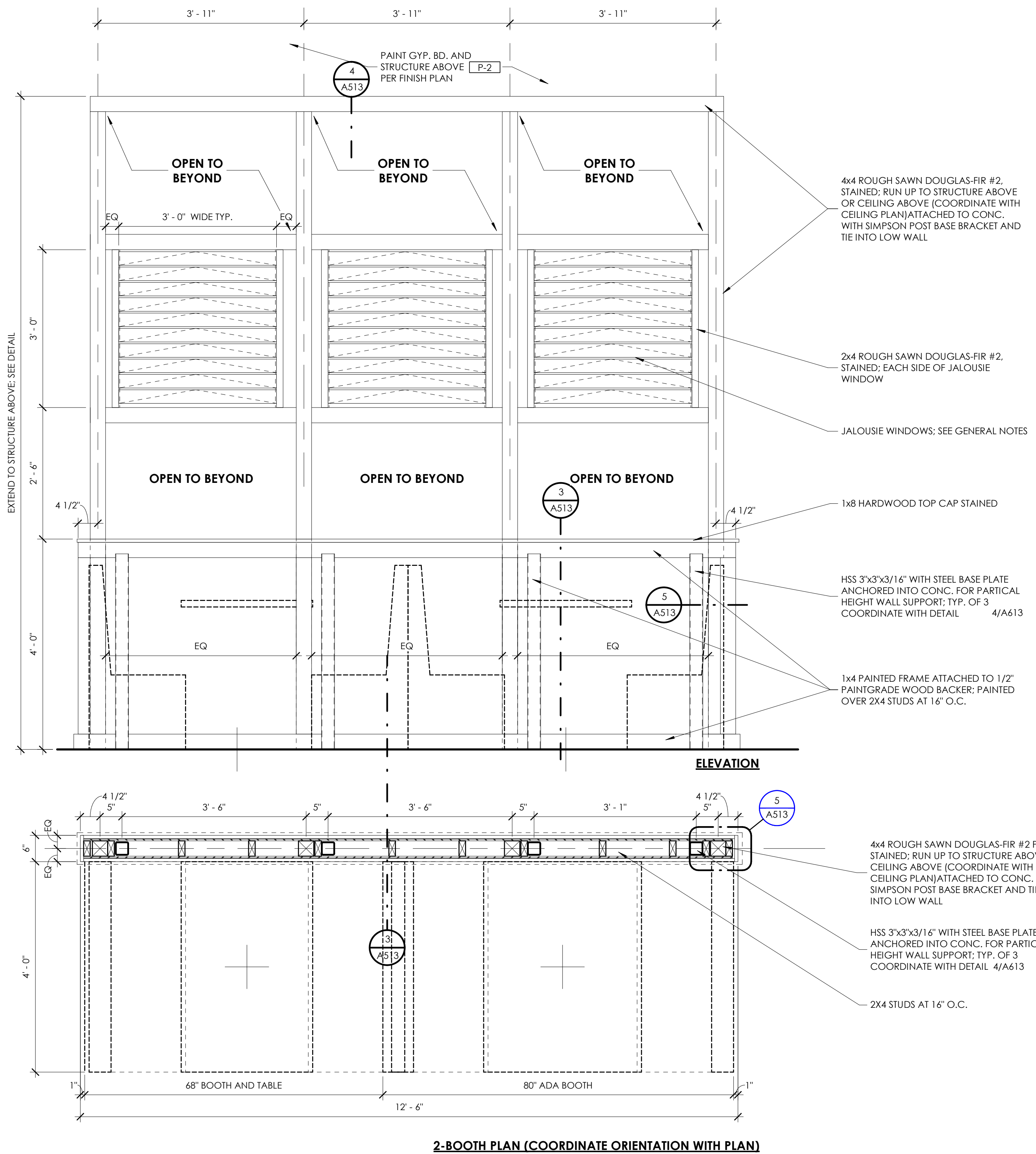
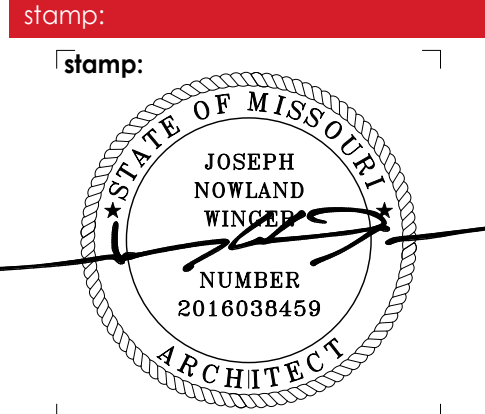
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4	REVISION 04	06-07-22

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**4** TOP OF WALL DETAILS  
 3" = 1'-0"

**3** INTERIOR JALOUSIE WALL SECTION  
 1 1/2" = 1'-0"

**1** WALL FINISH TYPE "W-2" (DINING WAINSCOT AT JALOUSIE)  
 3/4" = 1'-0"

**5** ENLARGED PLAN AT JALOUSIE  
 3" = 1'-0"

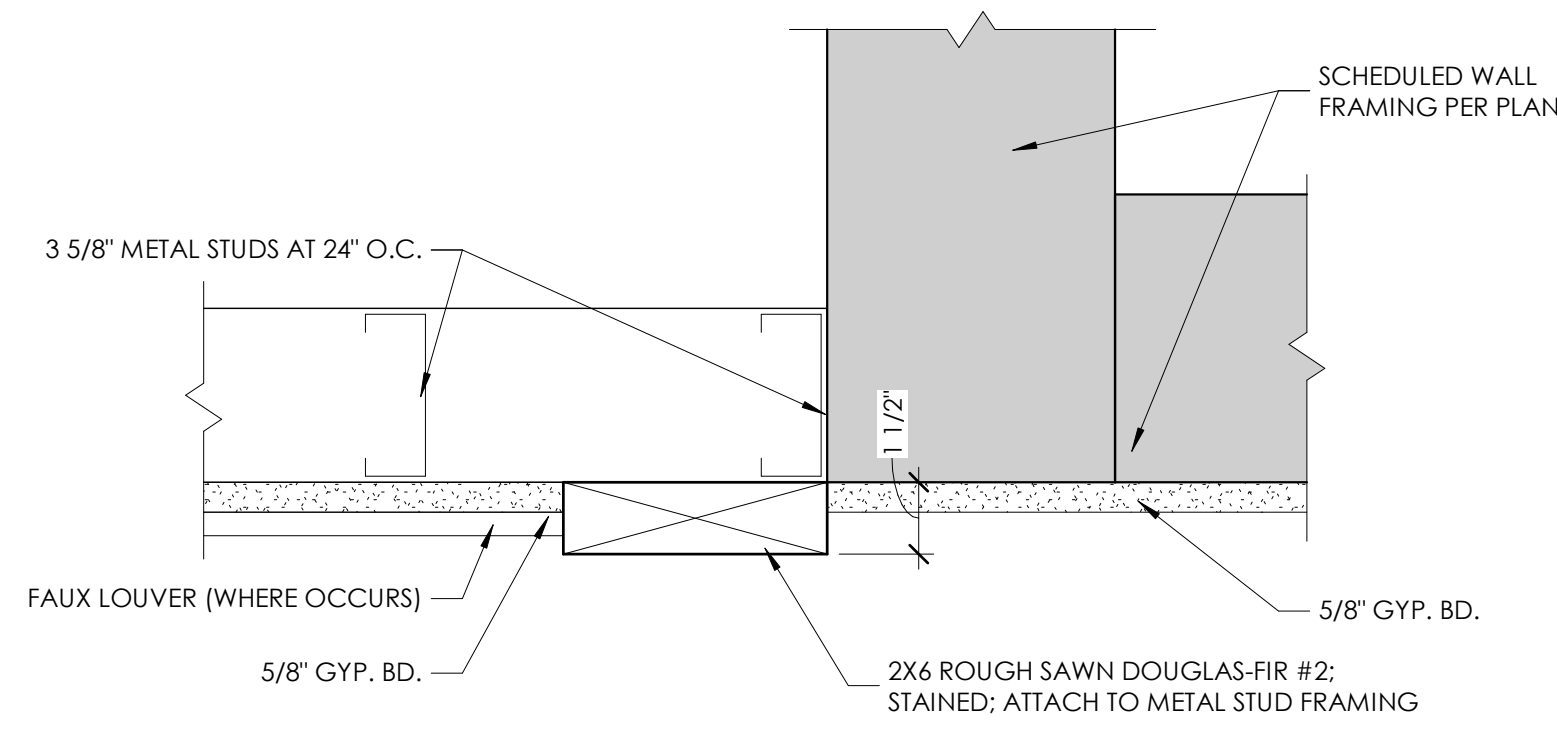
sheet number: MOBETTAHS (TI) for LEE'S SUMMIT

520 NW Chipman Rd  
 Lee's Summit, MO 64086

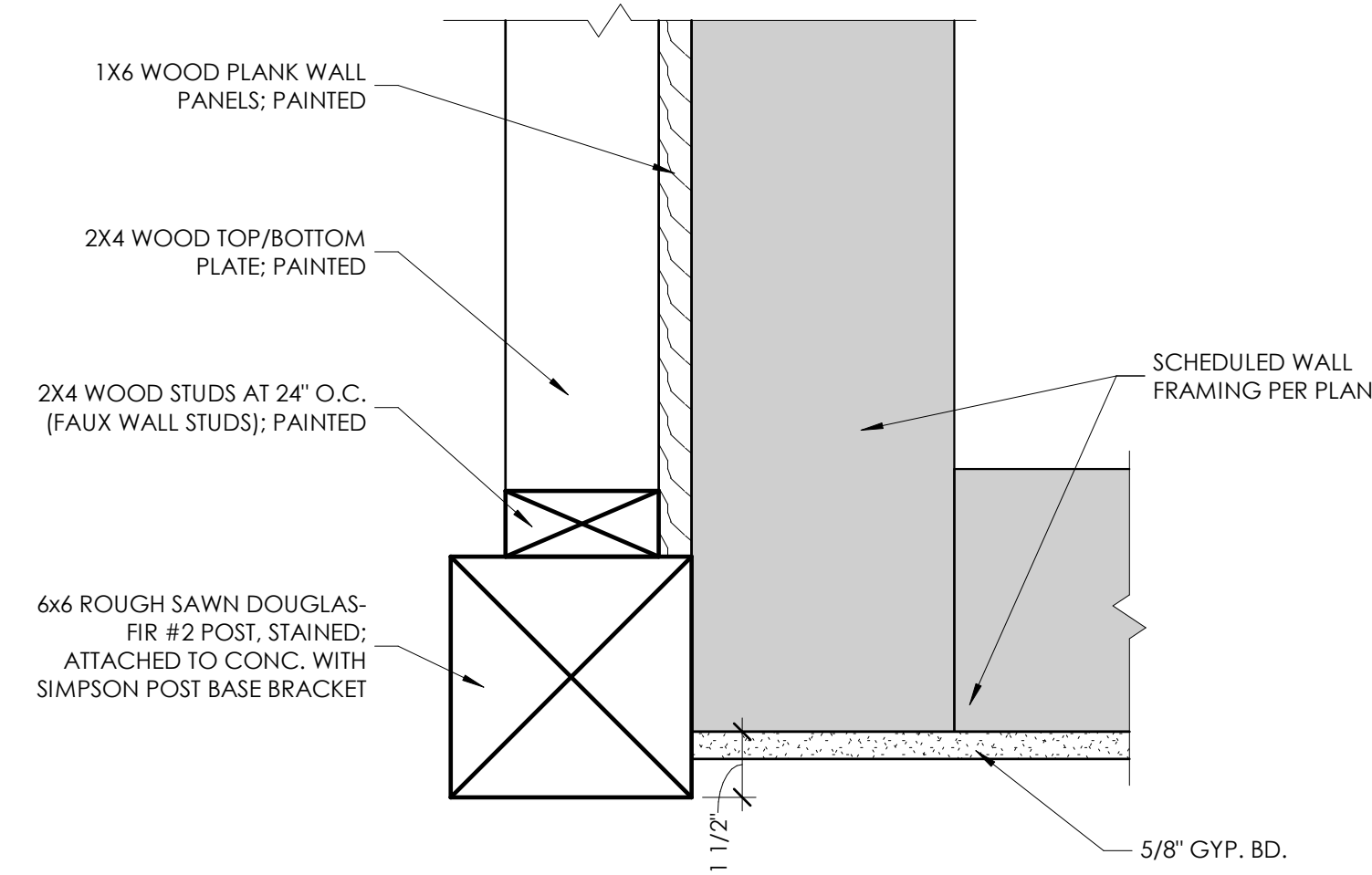
**JALOUSIE WALL**

sheet title: JALOUSIE WALL

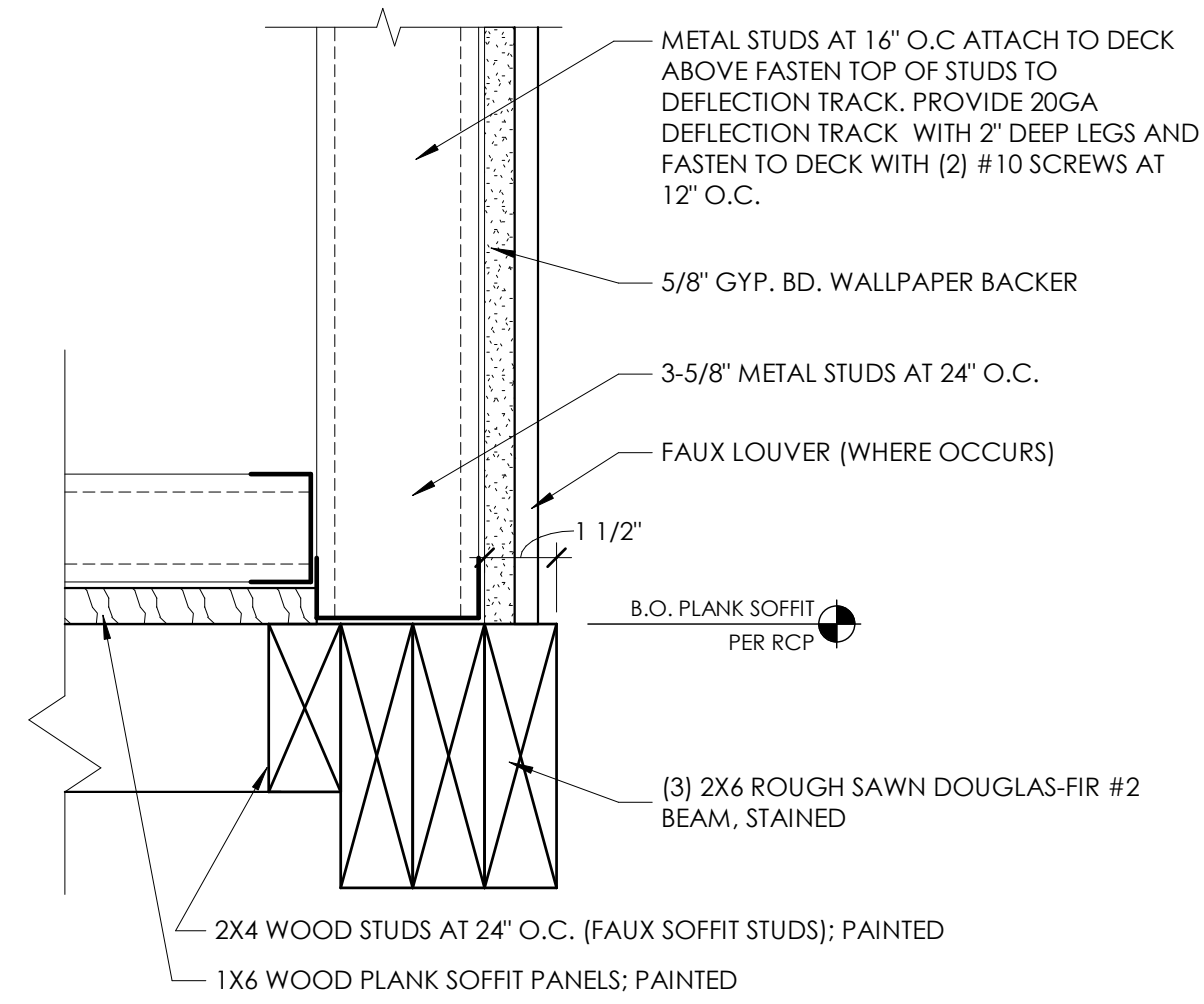
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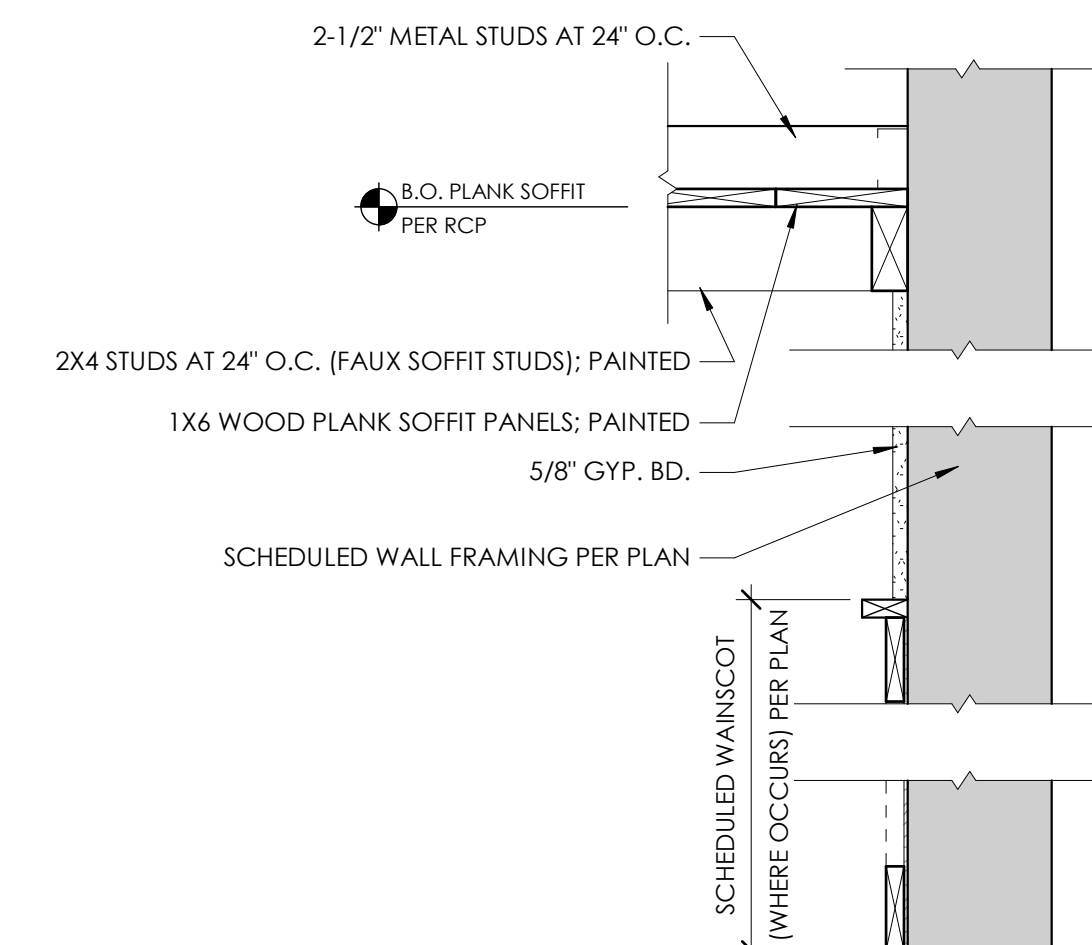
5 | SLAT WALL CEILING SECTION @ SOFFIT WALL  
3/8" = 1'-0"



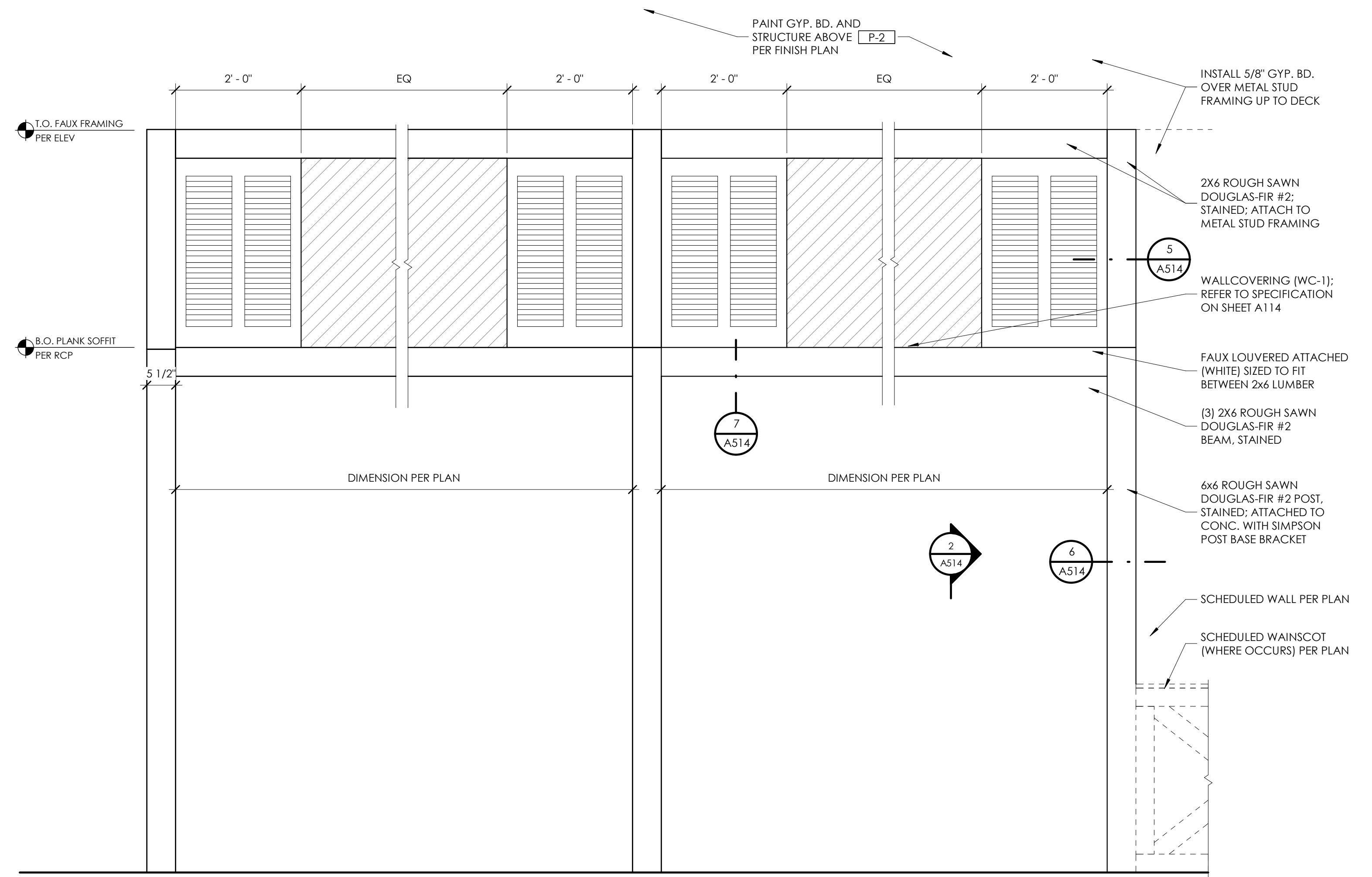
6 | SLAT WALL CORNER PLAN DETAIL  
3/4" = 1'-0"



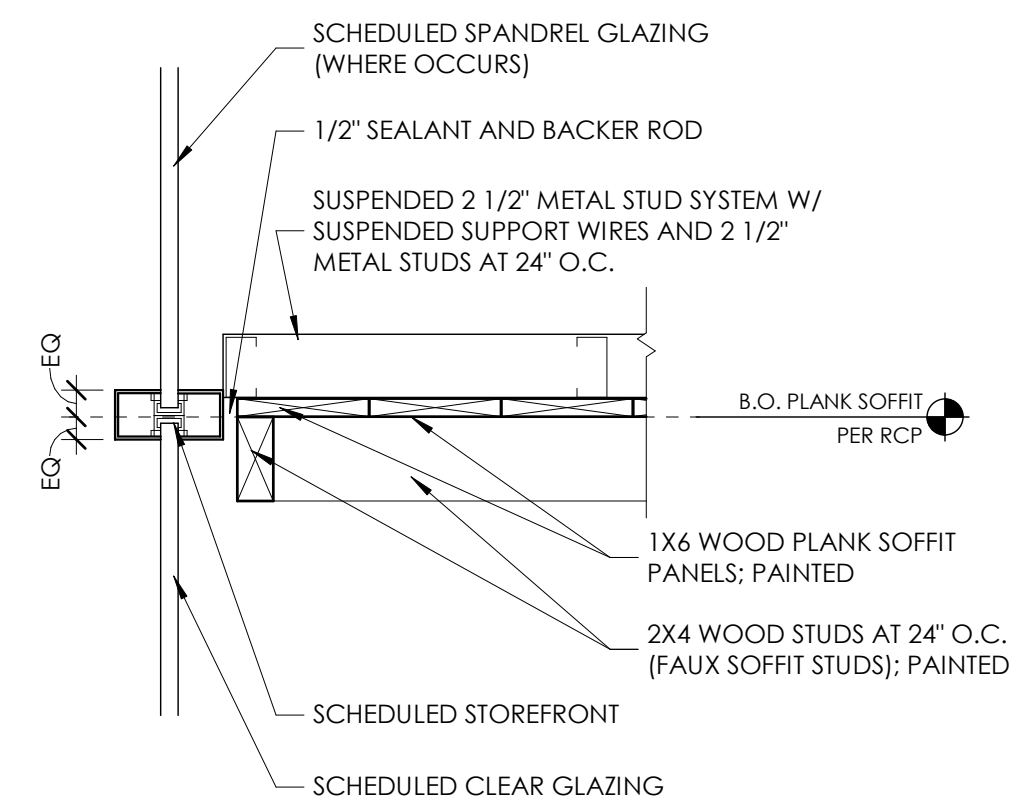
7 | FAUX BEAM SECTION  
3/8" = 1'-0"



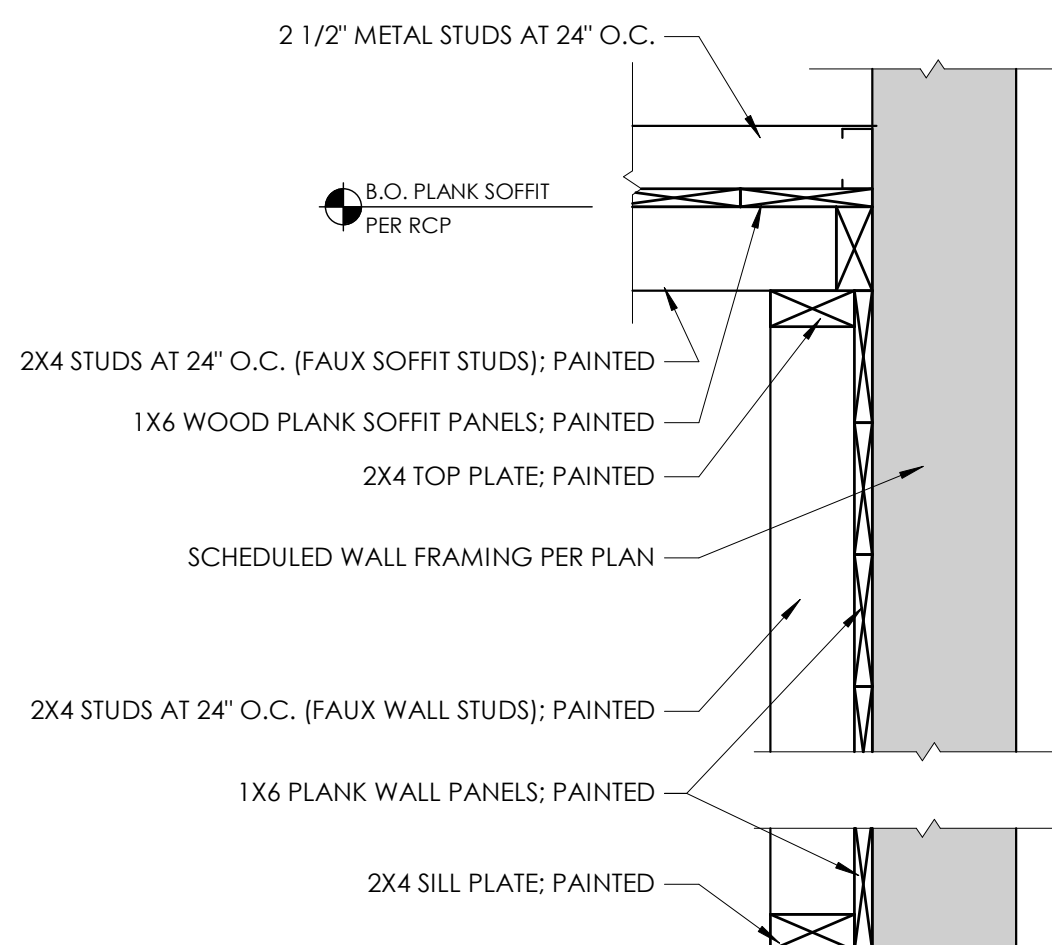
8 | FAUX STUD SOFFIT AT WAINSCOT  
3/8" = 1'-0"



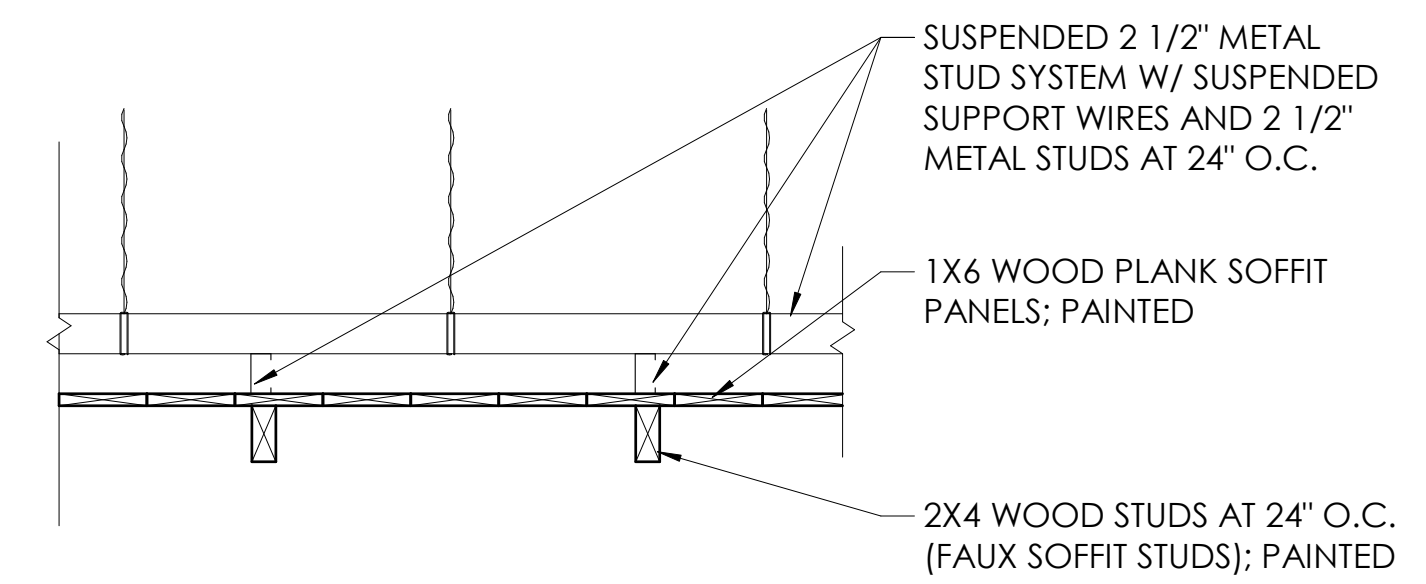
1 | TYPICAL ELEVATION @ INTERIOR "PATIO WALL AREA"  
3/4" = 1'-0"



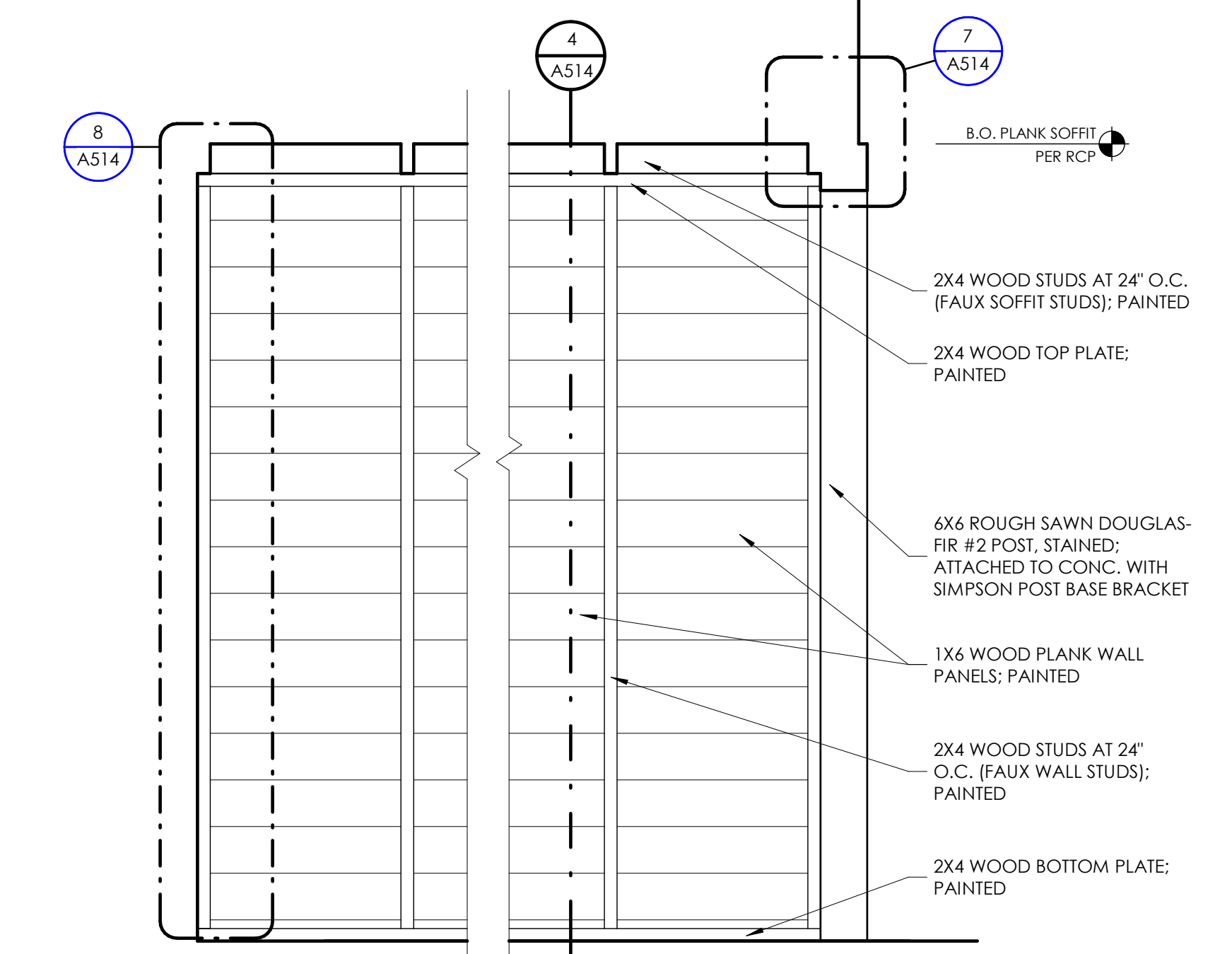
3 | FAUX STUD SOFFIT AT STOREFRONT  
1 1/2" = 1'-0"



4 | FAUX STUD SOFFIT AT FAUX STUD WALL  
1 1/2" = 1'-0"



9 | SUSPENDED FAUX WALL CEILING SECTION  
1" = 1'-0"



2 | WALL FINISH TYPE "W-4" (FAUX STUD WALL)  
3/4" = 1'-0"



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date: 1-23-2022

project number: MO-53LEE

project status: ISSUED FOR CONSTRUCTION

original drawing is 24" x 36"

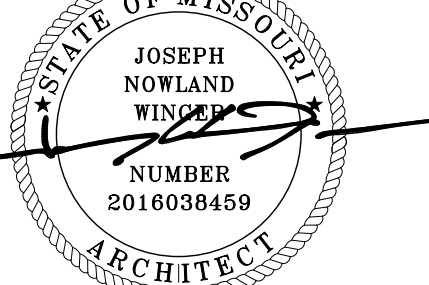
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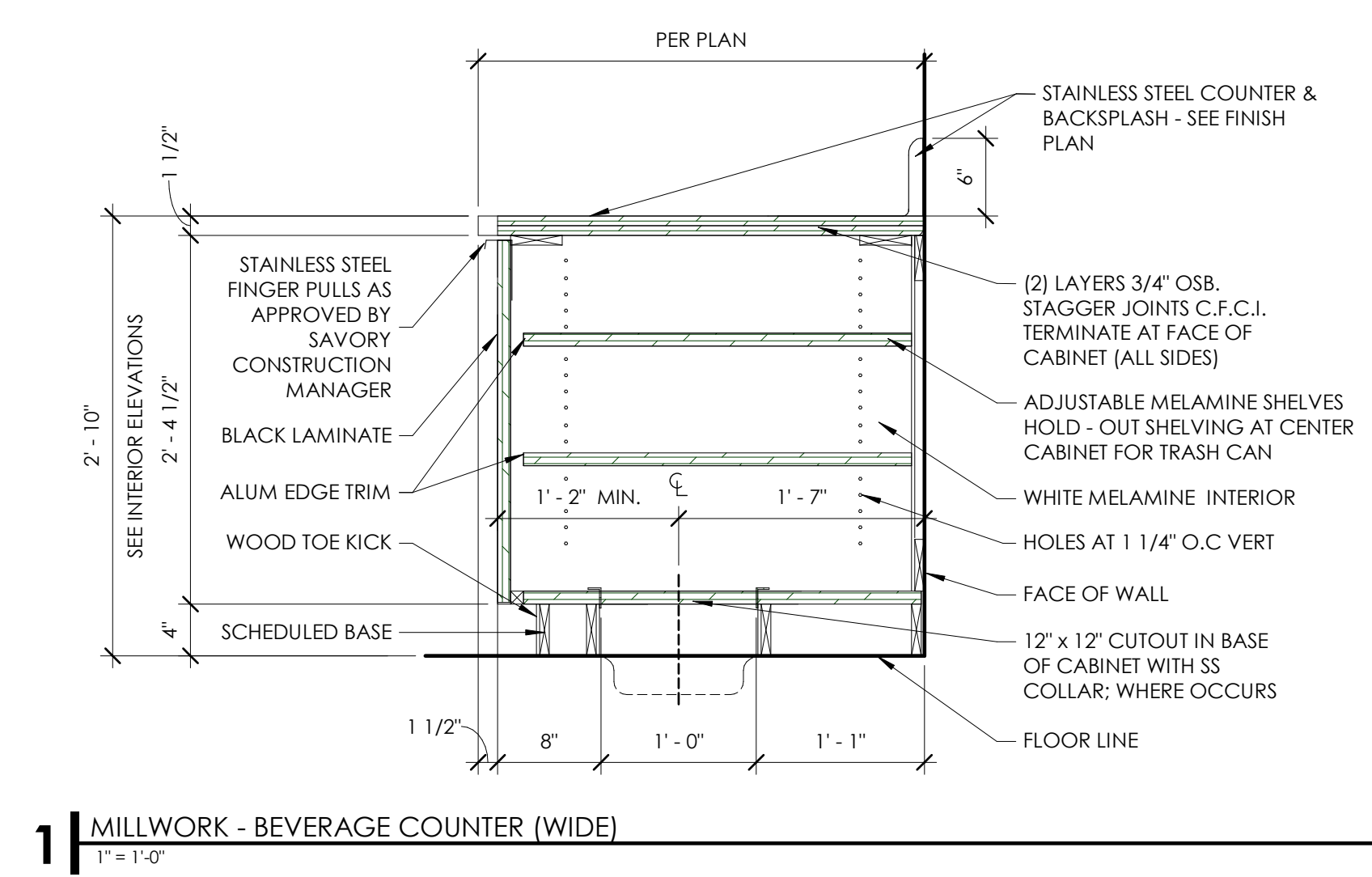
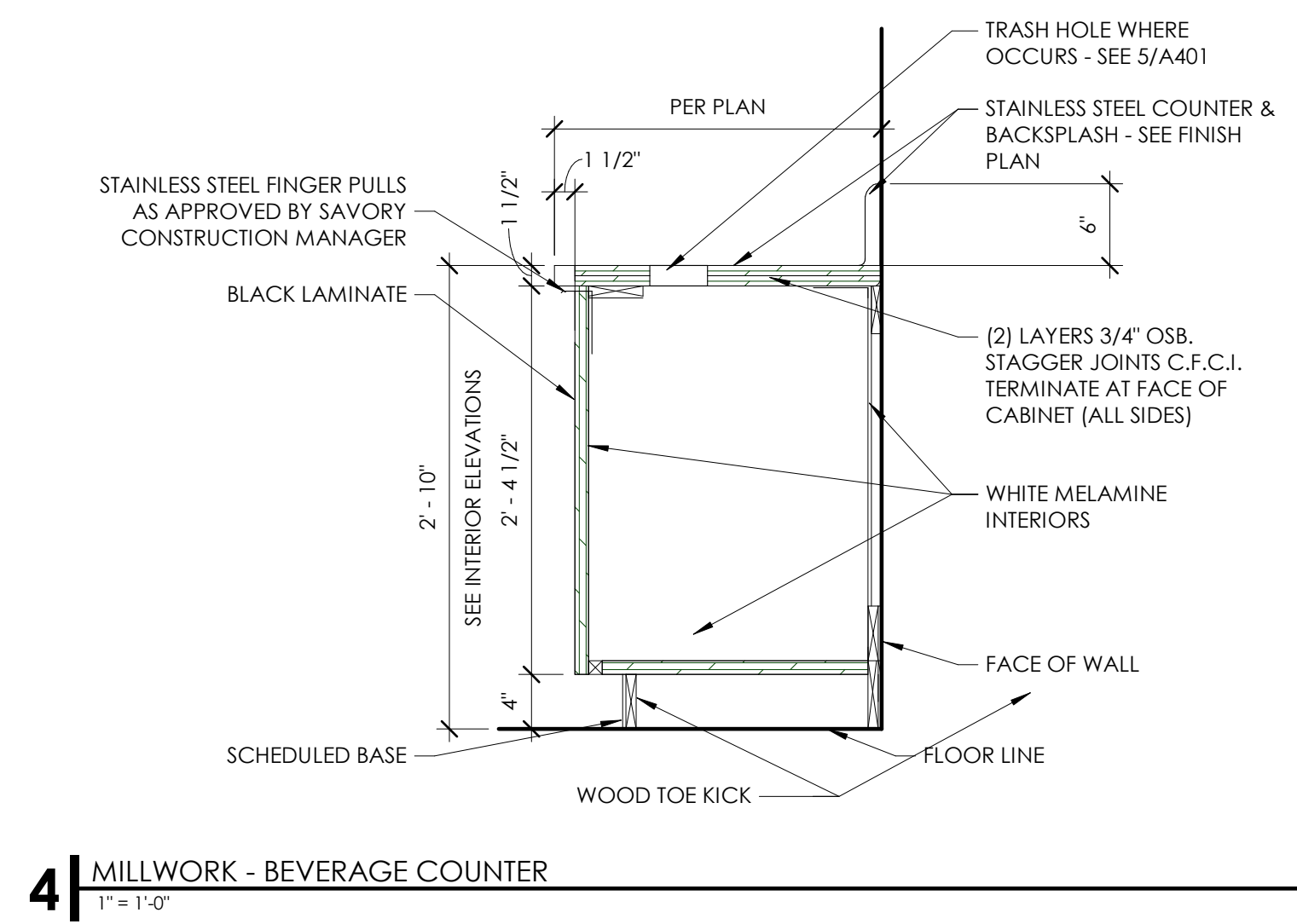
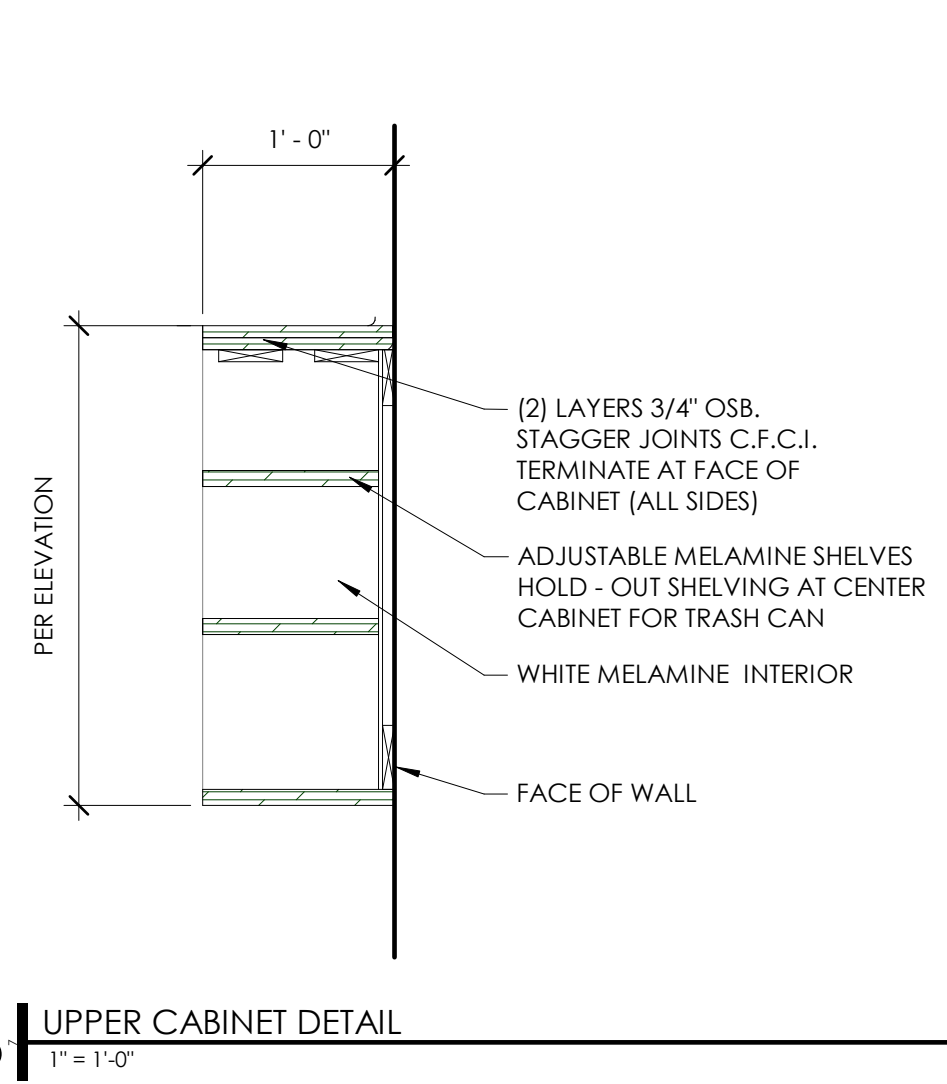
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sheet title:  
**INDOOR PATIO**

sheet number:

**A514**



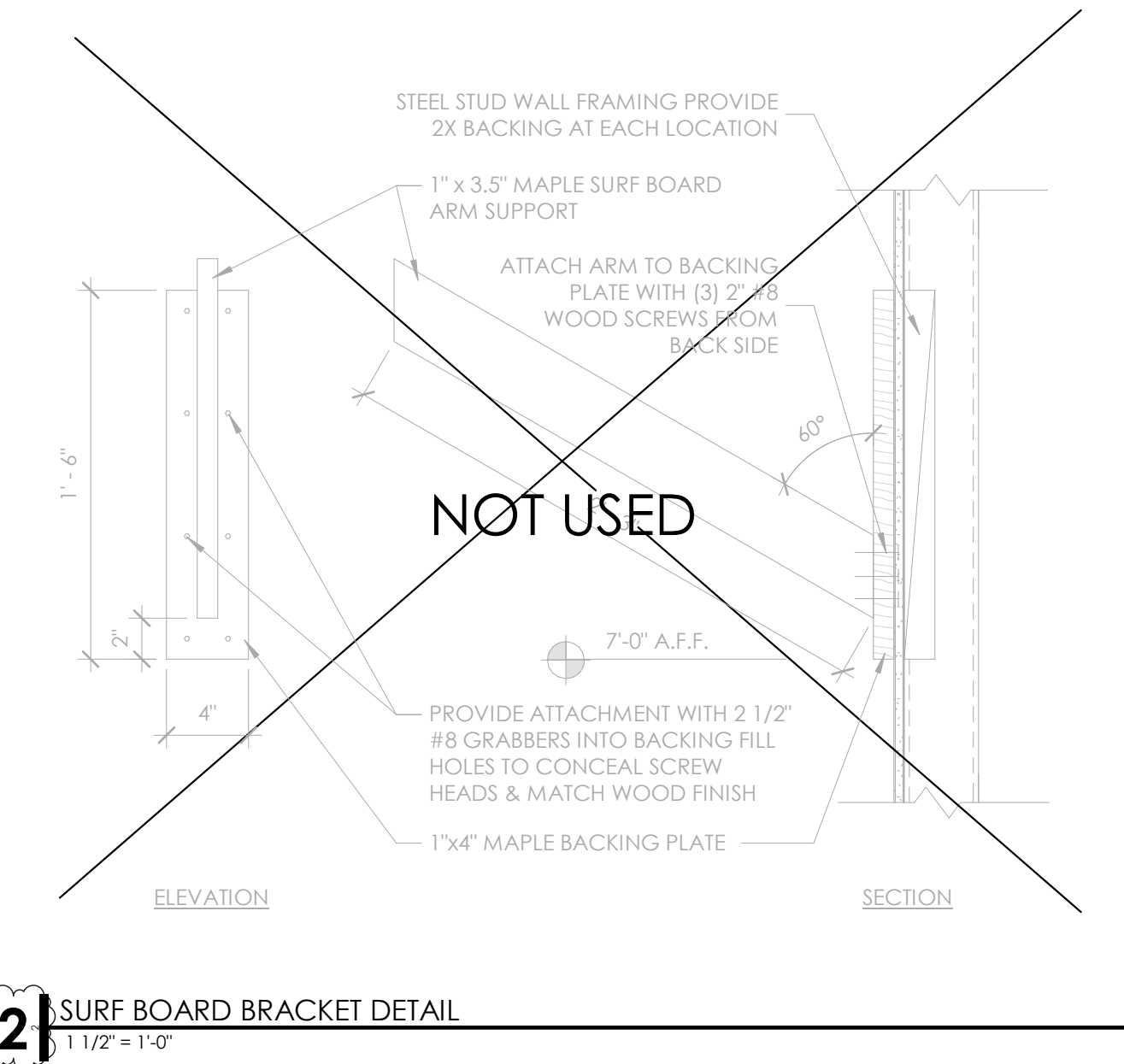
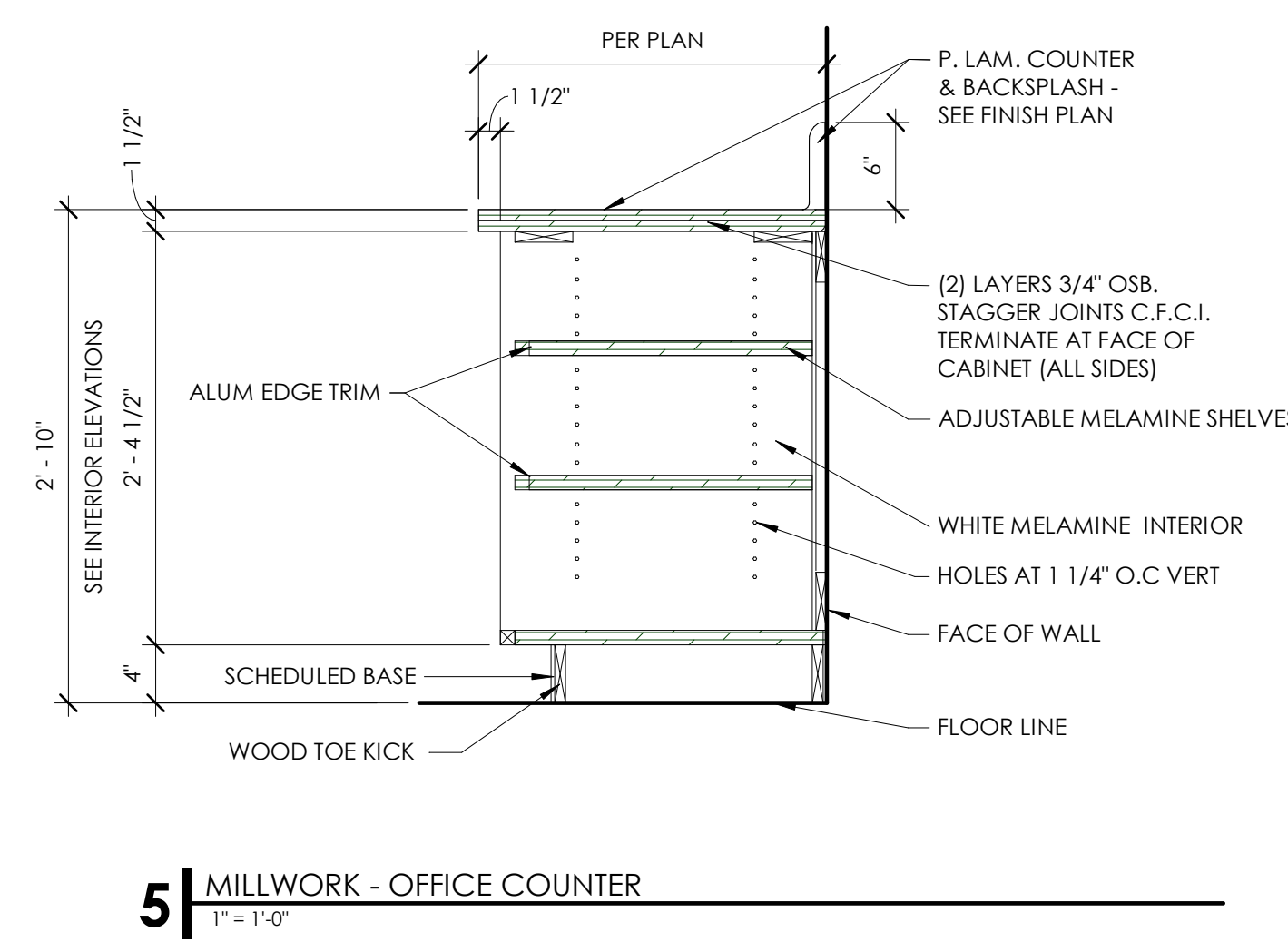
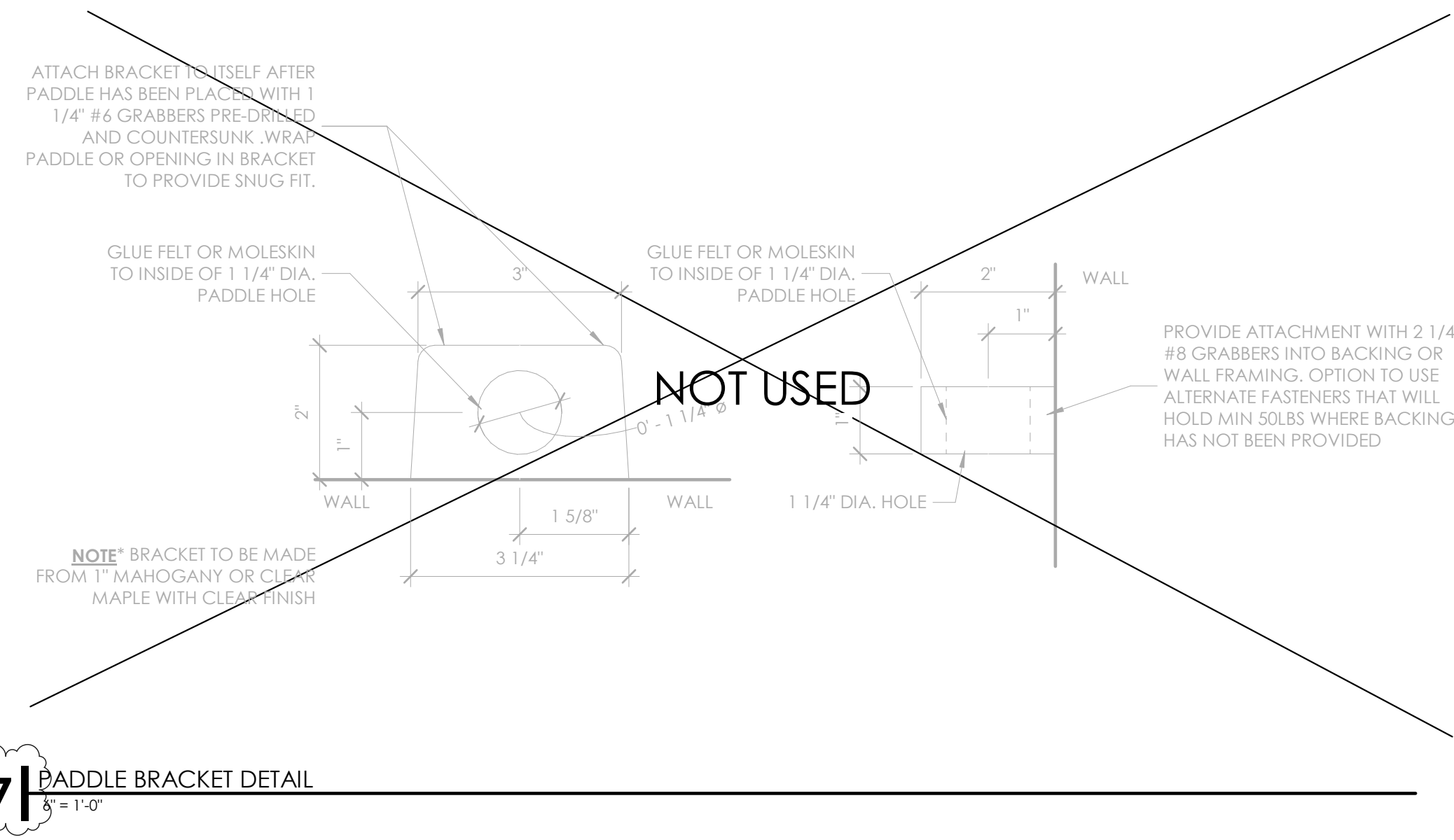
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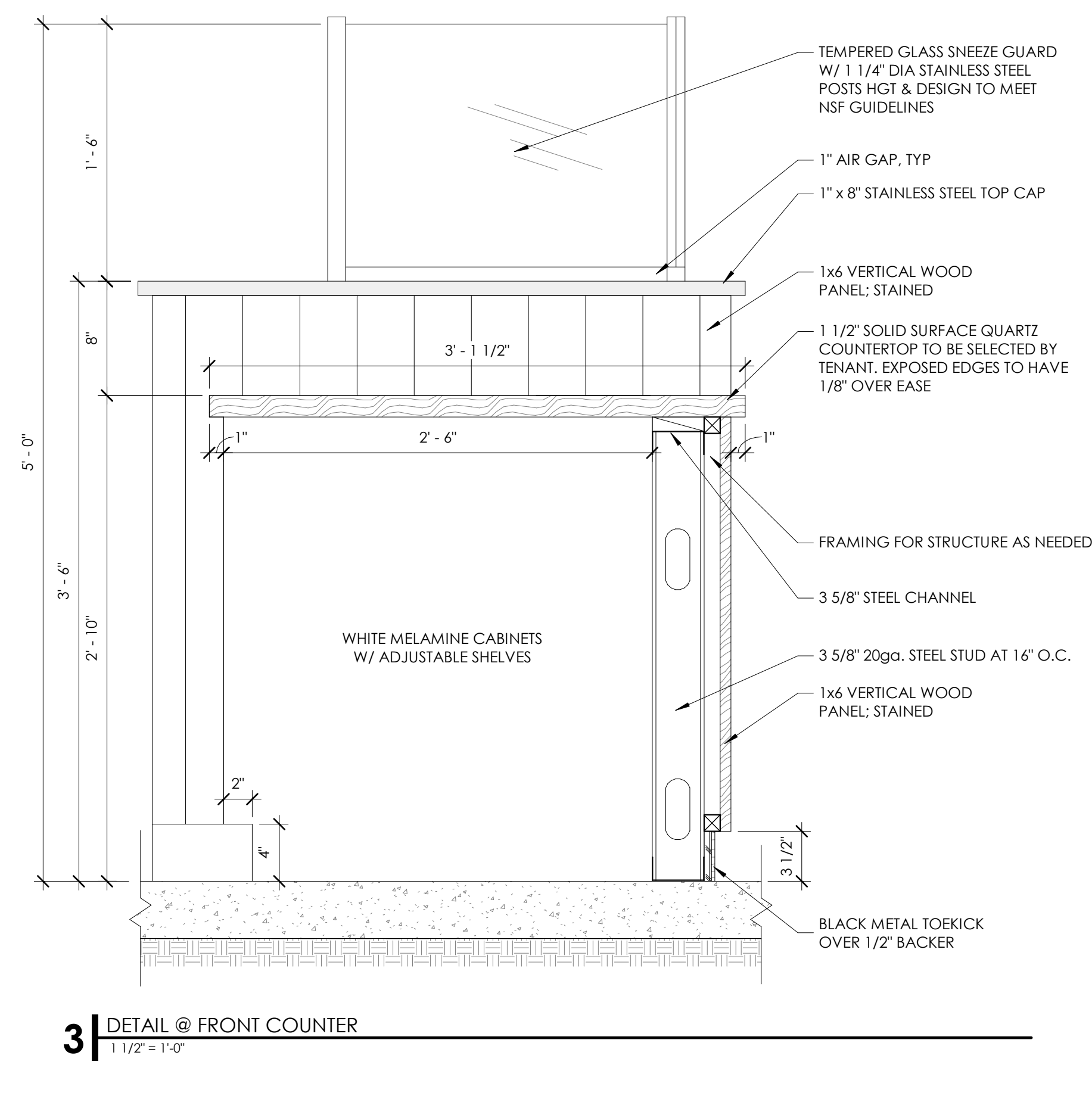
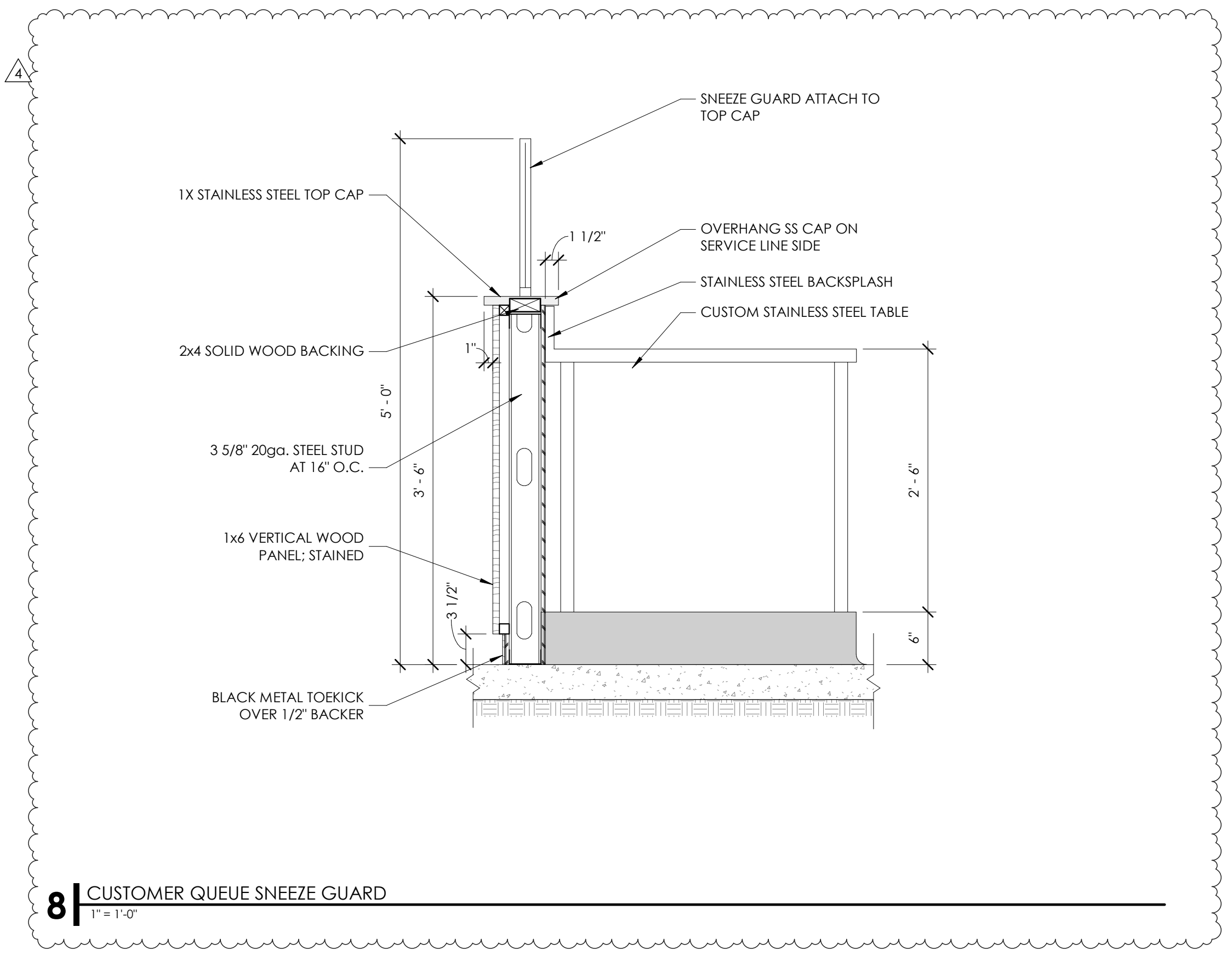
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sheet title:  
**MILLWORK DETAILS**

sheet number:  
**A551**



DOOR AND FRAME SCHEDULE																	
DOOR #	ROOM NAME	DIMENSIONS			PANEL				FRAME					FIRE RATING	HARDWARE SET	NOTES	
		W	H	T	NO. OF PANELS	TYPE	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH	FRAME DETAIL				
												HEAD	JAMB	SILL			
100	DINING	3'-0"	8'-0"	0'-2"	1	AM	AL	DB	GL-2T		AL	DB	13/AS561	13/AS561	7/AS561		GROUP 01
101	DINING	6'-0"	8'-0"	0'-1 3/4"	2	AM / AM	AL	DB	GL-2T		AL	DB	13/AS561	13/AS561	7/AS561		GROUP 02
103	KITCHEN	3'-0"	8'-0"	0'-1 3/4"	1	F	HM	PT (E-1)		1	HM	PT (E-1)			7/AS561		GROUP 06
104	ELEC CLOSET	3'-0"	7'-0"	0'-1 3/4"	1	F	HM	P-6			HM	P-6	3/A631	1/A631			GROUP 04 3
105	UNISEX	3'-0"	7'-0"	0'-1 3/4"	1	F	HM	P-3			HM	P-3	3/A631	2/A631			GROUP 05 3
106	UNISEX	3'-0"	7'-0"	0'-1 3/4"	1	F	HM	P-3			HM	P-3	3/A631	2/A631			GROUP 05 3
108	MECHANICAL	3'-0"	7'-0"	0'-1 3/4"	1	F	HM	P-3			HM	P-3	3/A631	1/A631			GROUP 04 3

**DOOR & FRAME SCHEDULE NOTES:**

- CONTRACTOR TO DETERMINE EXISTING HARDWARE AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO WORK.
- ELIASON SCP-8 BLACK W/ STAINLESS STEEL EDGE TRIM & KICK PLATES TRAFFIC DOUBLE ACTING DOOR; PROVIDE CASED FRAME (DETAILS REFERENCED ARE SIMILAR).
- PROVIDE SEMI-GLOSS PAINT; COORD WITH SHEET A114 FOR PAINT COLORS.

**DOOR STOP GENERAL NOTES:**

- FLOOR MOUNTED STOPS AT EXTERIOR DOORS**
  - CENTER STOP ON THE DOOR LEAF WHEN OPENED
  - ALLOW FOR 90 DEGREE OPEN WHEN ADJACENT TO AN OBSTRUCTION
- FLOOR MOUNTED STOPS AT INTERIOR DOORS**
  - CENTER STOP ON THE DOOR LEAF WHEN OPENED
  - ONLY ALLOW FOR 90 DEGREE OPEN.

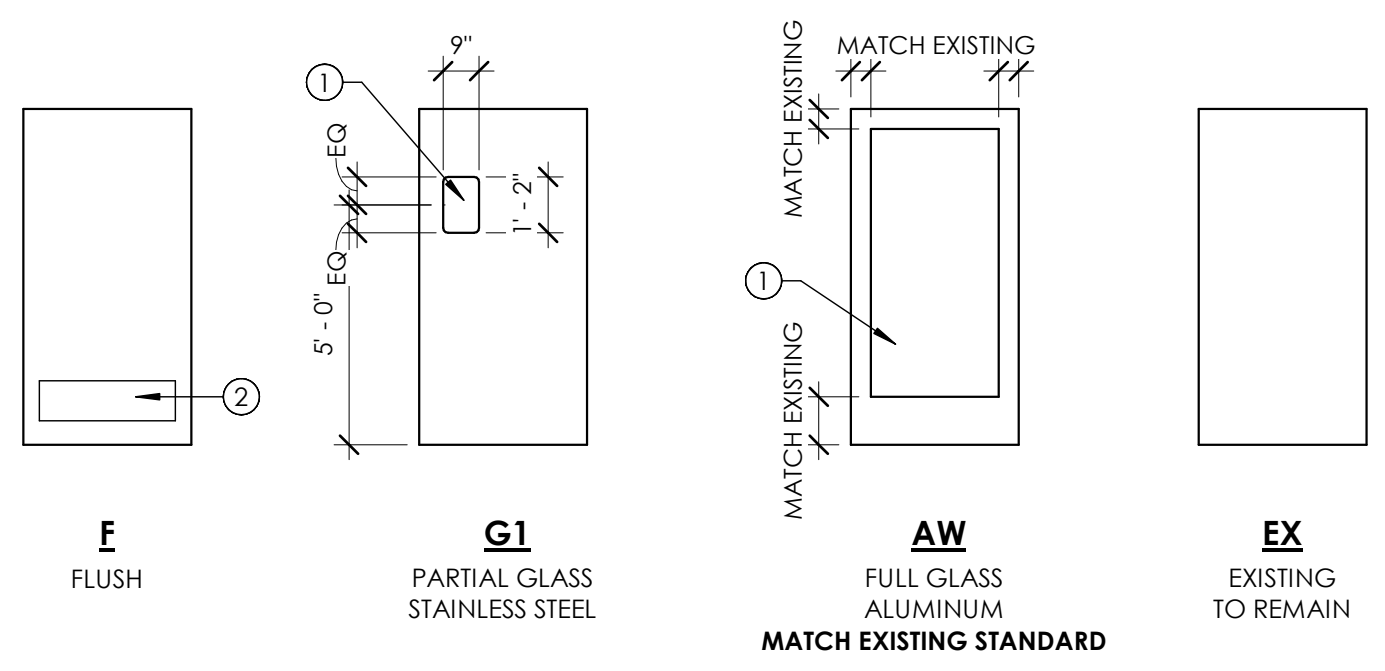
**GLAZING TYPES:**

- GL-1** CLEAR ACRYLIC SAFETY WINDOW SET IN BLACK RUBBER MOLDING
- GL-2** 1" INSULATED GLAZING TO MATCH EXISTING BUILDING STANDARD
- GL-2T** 1" TEMPERED INSULATED GLAZING TO MATCH EXISTING BUILDING STANDARD

**DOOR TYPE - GRAPHICAL SCHEDULE**

SCALE: 1/4" = 1'-0"

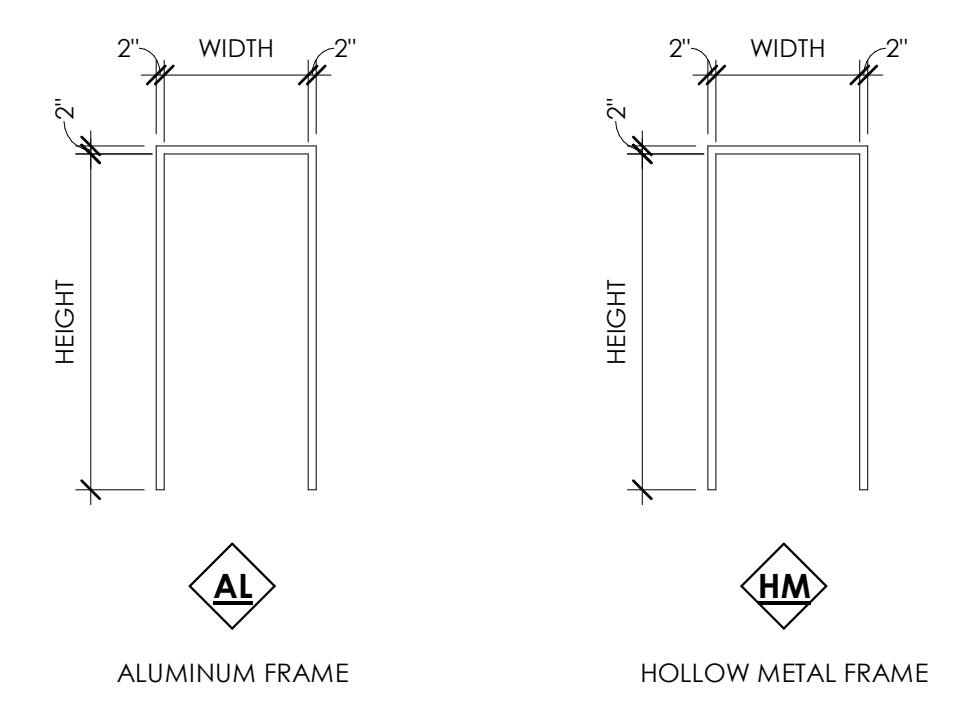
NOTE: SEE DOOR SCHEDULE TO MATCH APPROPRIATE FRAME TYPE WITH DOOR TYPES.



**DOOR FRAME TYPE - GRAPHICAL SCHEDULE**

SCALE: 1/4" = 1'-0"

NOTE: SEE DOOR SCHEDULE TO MATCH APPROPRIATE FRAME TYPE WITH DOOR TYPES.



**KEYNOTES**

- ① SCHEDULED GLAZING
- ② SCHEDULED KICK PLATE BOTH SIDES

**DOOR AND WINDOW FINISH LEGEND**

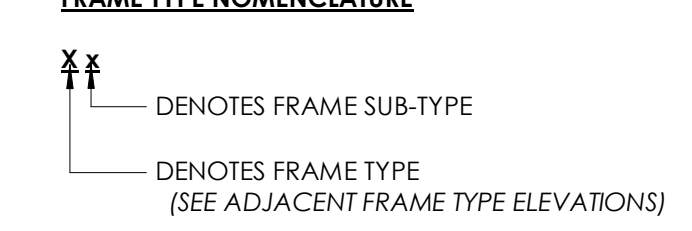
P-6	BLACK SEMI GLOSS
DB	DARK BRONZE TO MATCH EXISTING
EX	EXISTING FINISH TO REMAIN / MATCH EXISTING BUILDING STANDARD
ST	SATIN

**DOOR AND WINDOW GENERAL NOTES:**

- THE CONTRACTOR IS TO VERIFY THE DIMENSIONS OF ALL OPENINGS PRIOR TO THE FABRICATION OF ALL DOORS AND FRAMES.
- DUE TO MULTIPLE USE, SOME OF THE DETAILS REFERRED TO ON THE DOOR SCHEDULE ARE REVERSED OR TURNED FROM THE DIRECTION SHOWN ON THE FLOOR PLANS. THE INTENT OF THE DETAILS IS TO BE FOLLOWED. CONSULT THE ARCHITECT WHEN QUESTIONS ARISE.
- ALL EXIT ACCESS DOORS AND EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR EFFORT. USE OF MANUAL FLUSH BOLTS, EDGE BOLTS, TOP OR BOTTOM BOLTS, ETC., IS PROHIBITED.
- DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES WILL BE 5 SECONDS MINIMUM.
- FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE REQUIRED FORCE FOR PUSHING OPEN OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL BE 5 POUNDS. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR IN A CLOSED POSITION.
- THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC DOORS, POWER ASSISTED DOORS, AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHEN NARROW STILE AND RAIL DOORS ARE USED, A 10" MINIMUM, SMOOTH PANEL, EXTENDING THE FULL WIDTH OF THE DOOR, SHALL BE INSTALLED ON THE PUSH SIDE(S) OF THE DOOR WHICH ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. CAVITIES CREATED BY KICK PLATES SHALL BE CAPPED.
- ALL DOOR LOCKSETS AND PANIC DEVICES SHALL BE ADA COMPLIANT.
- CAULK HEAD, JAMBS, AND SILLS OF ALL DOORS AND WINDOWS WITH SEALANT CONTINUOUSLY APPLIED TO BOTH SIDES OF THE FRAMES.
- ALL DOOR CLOSURES TO BE SET IN ACCORDANCE WITH THE ADA REDUCED OPENING FORCE REQUIREMENTS.
- DOOR HARDWARE SUBSTITUTIONS SHALL BE PERMITTED. (MANUFACTURER ONLY) WITH OWNER'S WRITTEN APPROVAL.
- KEYING FOR ALL SCHEDULED LOCKSETS SHALL BE PROVIDED BY OWNER; COORDINATE WITH RESPONSIBILITY SCHEDULE ON SHEET G000.
- PROVIDE SOLID BACK FRAMES FOR ALL STOREFRONT SYSTEMS.
- PROVIDE END DAMS AT BOTTOM OUTSIDE CORNERS OF ALUMINUM STOREFRONT SYSTEMS. INSTALL PER MANUFACTURERS STANDARDS AND REQUIREMENTS.
- FRAME DIMENSIONS SHOWN ARE NOMINAL. ACTUAL DIMENSIONS MAY VARY DEPENDING ON WINDOW MANUFACTURER AND SYSTEM.
- COORDINATE THRESHOLDS WITH FINISH PLAN
- ALL DOORS ON THE ACCESSIBLE ROUTE OR CIRCULATION PATH BE TESTED FOR A MAX OPENING FORCE OF 5LBS.

**DOOR PANEL TYPES**

**FRAME TYPE NOMENCLATURE**



**FRAME SUB-TYPES**

- M MASONRY HEAD
- (SEE ADJACENT FRAME SUB-TYPES ELEVATIONS)
- MT MASONRY HEAD AND TERMINATED STOPS
- (SEE ADJACENT FRAME SUB-TYPES ELEVATIONS)
- R RADIATION RESISTANT (SEE SPECIFICATIONS)
- T TERMINATED STOP
- (SEE ADJACENT FRAME SUB-TYPES ELEVATIONS)

**NOTES**

- SEE DOOR SCHEDULE FOR DOOR WIDTH AND HEIGHT
- INSET FRAME DEPTH/THROAT IS 6" UNLESS OTHERWISE NOTED
- INSET FRAME'S HEAD WIDTH IS 2" UNLESS DENOTED AS MASONRY HEAD
- WRAPPED FRAME'S HEAD WIDTH IS 2"

**DOOR HARDWARE**

HARDWARE GROUP - 01 MAIN ENTRY		FINISH	MANF
2	SET PIVOT HINGES AND INTERMEDIATE - EXISTING TO REMAIN		
1	EA LOCKSET, 3 POINT LOCKING DEVICE - REMOVE/MODIFY AS REQUIRED TO PROVIDE LOCK BELOW		
2	EA CLOSER - EXISTING TO REMAIN		
2	EA PUSH/PULL HANDLES - EXISTING TO REMAIN		
1	EA THRESHOLD - EXISTING TO REMAIN		
1	SET WEATHERSTRIP - EXISTING TO REMAIN		
2	EA HEADER/THRESH BOLT - 4015 X 4085	628	ADA
1	EA DEADLOCK - MS18515 1-18 B5	628	ADA
1	EA MORTISE CYLINDER - 20-001 118	626	SCH
1	EA EXIT INDICATOR - 4089	628	ADA
2	EA DEADBOLT LEVER - 4550	628	ADA
2	EA MOUNTING PLATE - 4110-18	689	LCN
2	EA CUSH SHOE SUPPORT - 4110-30	689	LCN
2	EA BLADE STOP SPACER - 4110-61	689	LCN
1	EA SIGN "THIS DOOR TO REMAIN UNLOCKED DURING..."		ADA
2	EA FLOOR STOP 1462		BLACK DO

NO PANIC HARDWARE IS PROVIDED AT THIS DOOR IN ACCORDANCE WITH IBC SECTION 1010.1.10 EXCEPTION #1 AND SECTION 1010.1.9.4 ITEM #2

**HARDWARE GROUP - 02 SIDE ENTRY**

HARDWARE GROUP - 02 SIDE ENTRY		FINISH	MANF
1	SET PIVOT HINGES AND INTERMEDIATE - EXISTING TO REMAIN		
1	EA PANIC HARDWARE -99A-NL-OP-388	626	VON
1	EA RIM BULLINDER -20-057	626	SCH
1	EA ENTRANCE LOCK - LEVER VON996L	626	VON
1	EA INTERCHANGEABLE CORE - 23-030 "C" KEYWAY	626	SCH
1	EA CLOSER - EXISTING TO REMAIN		
1	EA MOUNTING PLATE - 4110-18	689	LCN
1	EA CUSH SHOE SUPPORT - 4110-30	689	LCN
1	EA BLACE STOP SPACER - 4110-61	689	LCN
1	SET WEATHERSTRIP - EXISTING TO REMAIN		
1	EA THRESHOLD - EXISTING TO REMAIN		
1	EA FLOOR STOP 1462		BLACK DO

**HARDWARE GROUP - 03 KITCHEN**

HARDWARE GROUP - 03 KITCHEN		FINISH	MANF
	MANUFACTURER SUPPLIED HARDWARE		

**HARDWARE GROUP - 04 OFFICE**

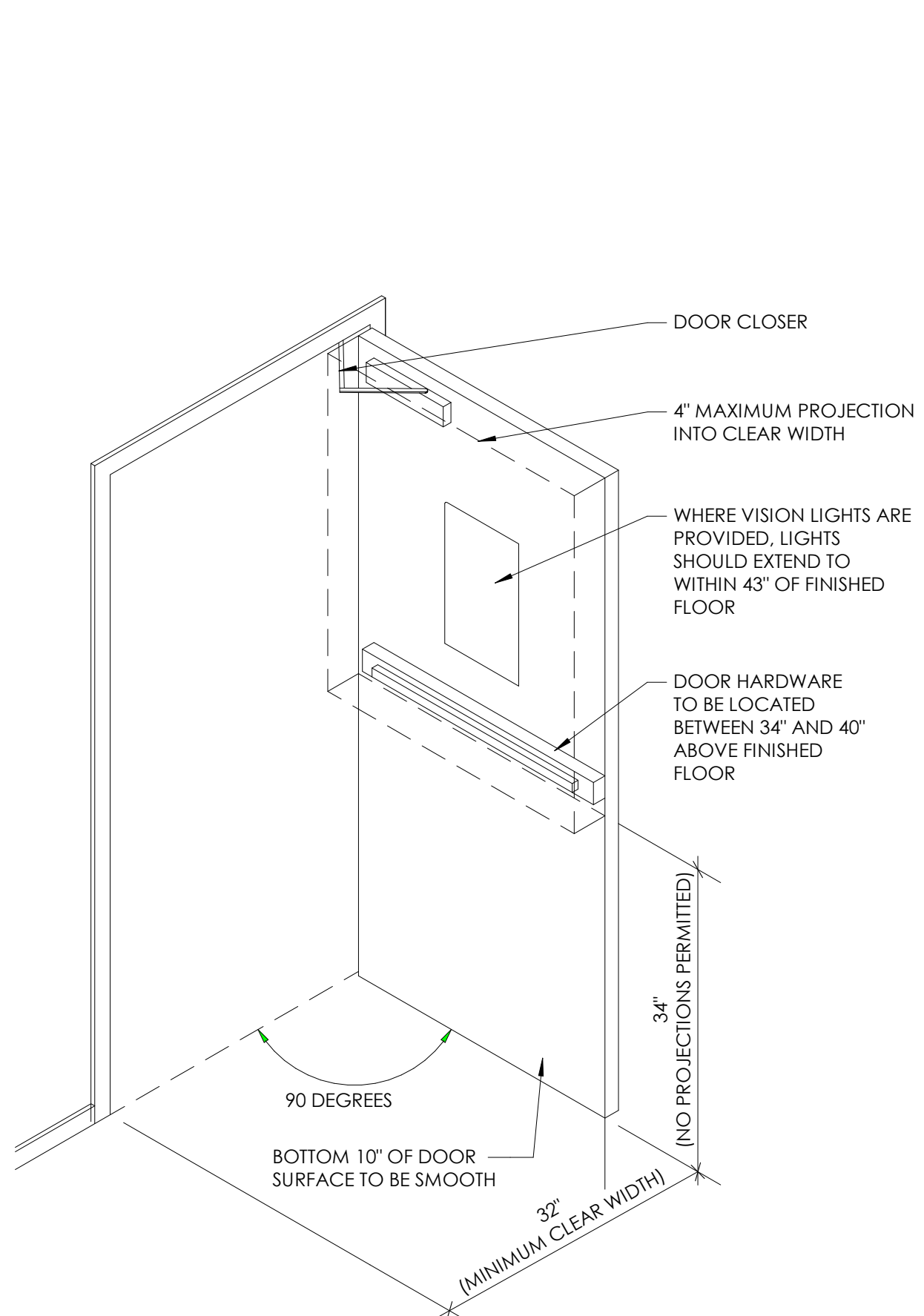
HARDWARE GROUP - 04 OFFICE		FINISH	MANF
3	EA HW HINGES - 5881HW 4.5 X 4.5 NRP	652	IVE
1	EA ENTRANCE LOCK - ND53PD RHO	626	SCH
1	EA INTERCHANGEABLE CORE - 23-030 "C" KEYWAY	626	SCH
2	EA KICK PLATE (18 GAUGE) - 90 10"x34"	US108	DON
1	EA WALL STOP 1401		BLACK DO
3	EA SILENCER - SR64	GRAY	IVE

**HARDWARE GROUP - 05 RESTROOM**

HARDWARE GROUP - 05 RESTROOM		FINISH	MANF
3	EA HW HINGES - 5881HW 4.5 X 4.5 NRP	652	IVE
1	EA CLOSER - REGULAR ARM - 4011 (MOUNT CLOSER AT INTERIOR - RESTROOM SIDE)	627	LCN
1	EA PUSH PLATE - 70 3 1/2" x 15"	628	DON
1	EA PULL HANDLE - 7014 3 1/2" x 15"	628	DON
2	EA KICK PLATE (18 GAUGE) - 90 10" x 34"	628	DON
1	EA DEAD BOLT - B571	626	SCH
1	EA INTERCHANGEABLE CORE - 23 - 030 "C" KEYWAY (IF AVAILABLE)	626	SCH
1	EA FLOOR STOP - 1462		BLACK DO
3	EA SILENCER - SR64	GRAY	IVE

**HARDWARE GROUP - 06 EXTERIOR KITCHEN**

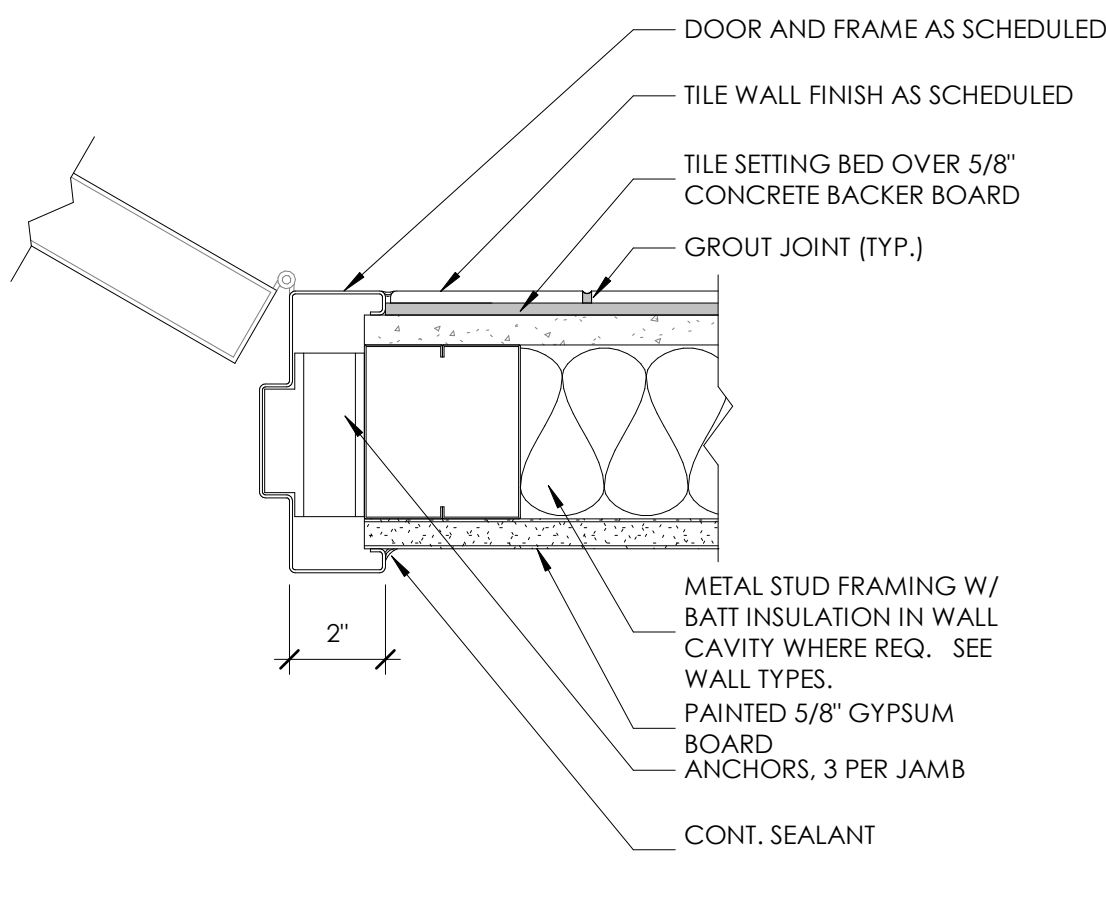
HARDWARE GROUP - 06 EXTERIOR KITCHEN		FINISH	MANF
1	SET HINGES - EXISTING TO REMAIN		
1	EA CYLINDER PULL 1874	626	DON
1	EA DOOR PANIC - VON DUPRIN 99A-NL-OP-388 SOFT TOUCH EXPOSED VERTICAL ROD TOUCH BAR PANIC WITH HEX DOGGING	626	VON
1	EA CYLINDER 20-062-1CX	US26D	SCH
1	EA INTERCHANGEABLE CORE - 23-030 "C" KEYWAY	US26D	SCH
1	EA CLOSER - EXISTING TO REMAIN		
1	SET WEATHERSTRIP - EXISTING TO REMAIN		
1	EA THRESHOLD - EXISTING TO REMAIN		
1	EA FLOOR STOP 1462		BLACK DO
1	EA DOOR VIEWER ULDV180 (IF APPLICABLE)	626	DO
1	EA EXTERIOR LEVER - VON996L	626	VON



**4** TYPICAL ACCESSIBLE DOOR DETAIL  
1/4" = 1'-0"

**3** INTR. HOLLOW METAL HEAD @ GYP. BD.  
3" = 1'-0"

**1** INTERIOR HM JAMB @ GYP.BD  
3" = 1'-0"



**2** INTR. HOLLOW METAL JAMB @ GYP. BD. & TILE  
3" = 1'-0"

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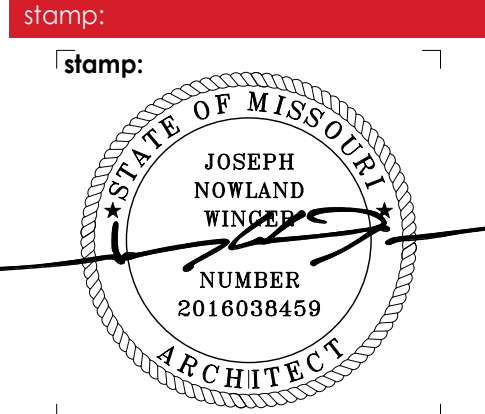
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4	REVISION 04	06-07-22

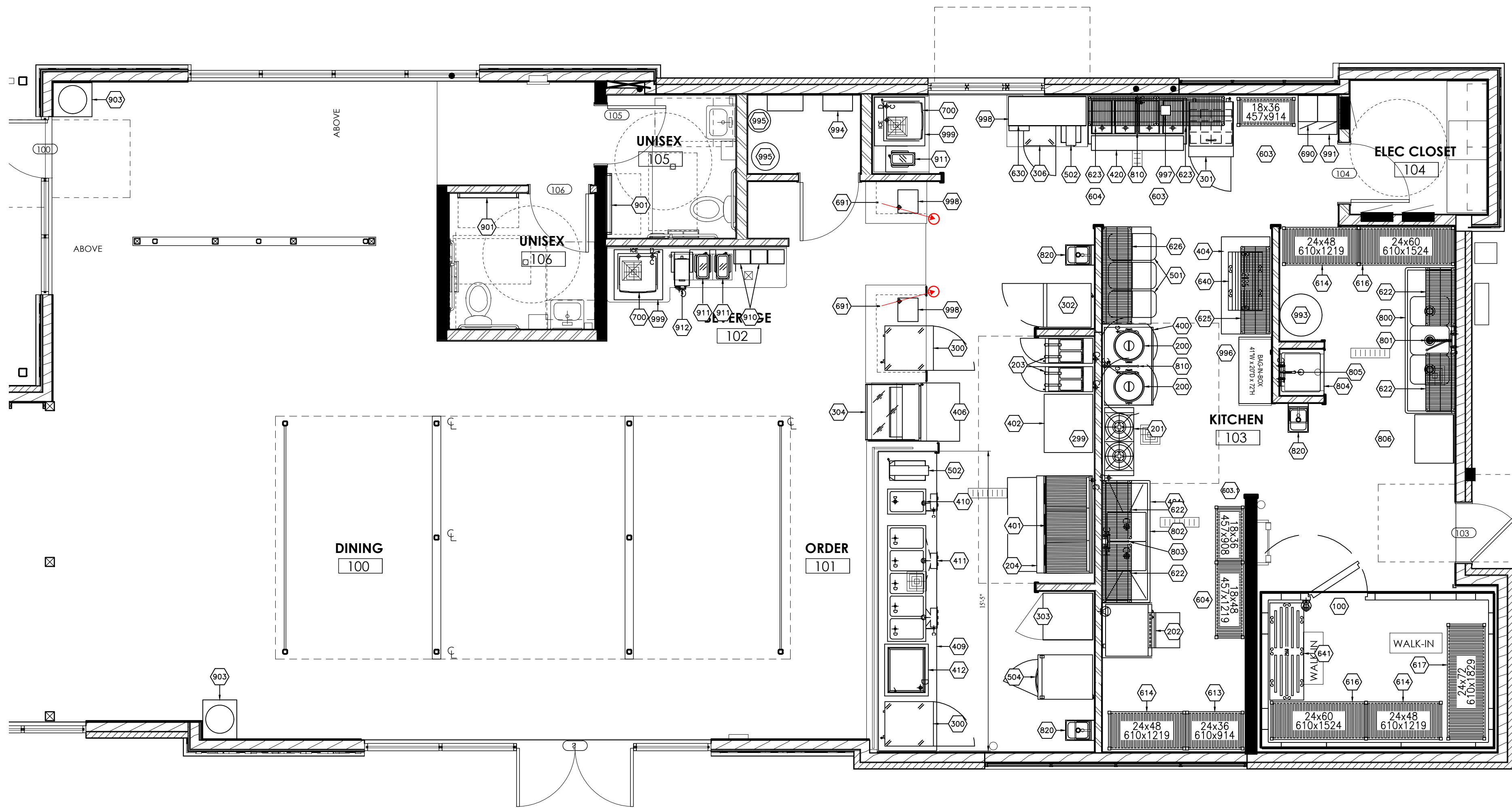
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sheet number:  
**MOBETTAHS (TI)**  
for  
**LEE'S SUMMIT**  
520 NW Chipman Rd  
Lee's Summit, MO 64086



EQUIPMENT SCHEDULE

Item No	Qty	Equipment Category	Equipment Remarks	Model Number
100	1	REFRIGERATOR, WALK-IN UNIT	FLOORLESS, DOOR HINGED LEFT	12'-0" x 8'-0"
200	2	COOKER, RICE		RM-55N-R
201	1	HOT PLATE, GAS	(2)BURNER, CAST IRON GRATES, ADJUSTABLE LEGS	ISPA-18-2
202	1	OVEN, CONVECTION, ELECTRIC	STACKED UNITS W/ DOUBLE OVEN STAND	E28M4-2
203	2	FRYER, DEEP FAT, GAS		SR142G
204	1	BROILER, UNDER-FIRED, GAS, COUNTER	(3) STEEL GRIDS, 4" LEGS	APM-RMB-660
299	6	FLEXIBLE GAS LINE, 48"		1675KIT48
300	2	REFRIGERATOR, UNDERCOUNTER, LOW PROFILE	(1) RIGHT HINGED, (1) LEFT HINGED, 3" CASTERS	MUR-28L-N6
301	1	REFRIGERATOR, SANDWICH/SALAD PREP	(2) HINGED RIGHT, 5" CASTERS	MST-28-12-N
302	1	REFRIGERATOR/FREEZER, DUAL-TEMP	HINGED LEFT, 5" CASTERS	M3RF19-2-N
303	1	REFRIGERATOR, REACH-IN	HINGED RIGHT, 5" CASTERS	M3R24-1-N
304	1	DISPLAY CASE, SELF-SERVE, REFRIGERATED		ELPRSS3
306	1	REFRIGERATOR, UNDERCOUNTER, LOW PROFILE		MUR-20S-N6
400	1	STAND, EQUIPMENT	16 GA. STAINLESS, 1" UPTURN REAR AND SIDES, UNDERSHELF	EG-LG-304
401	1	STAND, EQUIPMENT	16 GA. STAINLESS, 1" UPTURN REAR AND SIDES, UNDERSHELF	EG-LG-305
402	1	TABLE, WORK, 16 GAUGE, 1.5" UPTURN, W/ UNDERSHELF	16 GA. STAINLESS STEEL, 1-1/2" REAR UPTURN, UNDERSHELF	FAG-303
404	1	TABLE, WORK, 16 GAUGE, 1.5" UPTURN, W/O UNDERSHELF		TFLAG-305
406	1	TABLE, WORK, 16 GAUGE, FLAT TOP W/ UNDERSHELF		AG-243
408	1	BACK ISLAND SERVING TABLE	CUSTOM TABLE, FIELD MEASUREMENTS REQUIRED	CUSTOM
409	1	FRONT LINE SERVICE TABLE- CUSTOM	CUSTOM TABLE, FIELD MEASUREMENTS REQUIRED	CUSTOM
410	1	DROP-IN, HOT WELLS, INSULATED		HWBI-1DA
411	1	DROP-IN, HOT WELLS, INSULATED	40A DEDICATED LINE REQUIRED FOR POWER	HWBI-5MA
412	1	DROP-IN, COLD WELL		CWB-2
420	1	BUFFET/CAFETERIA, HOT FOOD-SOUP STATION		38118
501	3	BIN, INGREDIENT	CASTERS	IBS27148
502	1	WARMER, FOOD OVERHEAD		GRFFB
504	1	CABINET, HEATED, PASS THRU	HINGED LEFT, 6" CASTERS	STG1H-1S
603	1	SHELVING UNIT, STARTER, PLASTIC, LOUVERED		ESU183684V5580
603.1	1	SHELVING UNIT, STARTER, PLASTIC, LOUVERED		EA183684V5580
604	1	SHELVING UNIT, STARTER, PLASTIC, LOUVERED		ESU184884V5580
613	1	SHELVING UNIT, STARTER, PLASTIC, LOUVERED		ESU243684V5580
614	3	SHELVING UNIT, STARTER, PLASTIC, LOUVERED		ESU244884V5580
616	2	SHELVING UNIT, STARTER, PLASTIC, LOUVERED		ESU246084V5580
617	1	SHELVING UNIT, STARTER, PLASTIC, LOUVERED		ESU247284V5580
622	2	SHELVING, WIRE		J1836K
623	2	SHELVING, WIRE		J1842K
625	1	SHELVING, WIRE		J1854K
626	1	SHELVING, WIRE		J1860K
630	1	SHELF, WALL MOUNT		WS-18-48
640	1	RACK, DUNNAGE		DRS36480
641	1	RACK, DUNNAGE		DRS600480
690	2	LOCKERS		ELS-6DR
691	2	CUP DISPENSER	STAINLESS STEEL	SLR-2
700	2	ICE MACHINE, COMPRESSED STYLE	SELF CONTAINED, 710LB./24 HR ICE PRODUCTION	HMC710AHT
800	1	SINK, NSF, 3 COMP, 18 GAUGE	18" DRAIN BOARDS L R, BACKSPLASH	FE-3-1824-18RL
801	1	PRE-RINSE FAUCET, WALL MOUNT	12" NOZZLE, 3" NIPPLE, SPRING ACTION, SPLASH MOUNT	B-0133-01
804	1	SINK, MOP	16 GA. STAINLESS STEEL	PBMS2424-12
805	1	FAUCET, WALL MOUNT	VACUUM BREAKER, 3/4" HOSE THREAD	B-0665-BSTP
806	1	WORKTABLE, 16 GAUGE, BACK SPLASH w/ UNDERSHELF		FAG-240
810	2	FAUCET, WALL MOUNT	SINGLE HOLE WALL MOUNT	B-0592
820	3	SINK, HAND, WALL MOUNT	SIDE SPLASHES, ADA FAUCET, WALL MOUNT BRACKET	HS-1217S
901	2	BABY CHANGING STATION		KB200-05
902	2	HIGH CHAIRS		KB105-02
903	2	TRASH CAN	BLACK	FG256B00BRN
910	3	UTENSIL HOLDER	56 GAL., COLOR-BROWN, HOODED LID	SSFHWDSP08, BY OTHERS
911	3	DISPENSER, BEVERAGE/NON-CARBONATED		D15-3, BY OTHERS
912	1	DISPENSER, ICE TEA		G4RSTB
991	1	A/V RACK		BY OTHERS
992	1	SECURITY SAFE		BY OTHERS
993	1	CO2		BY OTHERS
994	1	WATER HEATER		BY OTHERS
995	1	WATER SOFTNER		BY OTHERS
996	1	BAG-IN-BOX SHELVING		BY OTHERS
997	1	RECEIPT PRINTER		BY OTHERS
998	4	CASH REGISTER (P.O.S.)		BY OTHERS
999	2	8-VALVE BEVERAGE DISPENSER		BY OTHERS

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

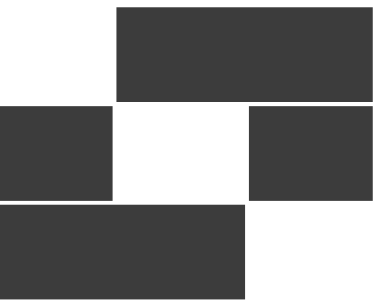
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SHEET TITLE: FOOD SERVICE EQUIPMENT PLAN  
 EQUIPMENT FLOOR PLAN  
 SCALE: 1/4" = 1'-0"  
 DRAWN BY: LOGAN LYBBERT  
 PRODUCT NO:  
 REVISION 1:  
 REVISION 2:  
 DATE: 06/07/2022

SHEET NUMBER  
**K1**  
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2	Revision 2	04-06-22
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**FOOTING AND FOUNDATION PLAN**  
sheet title:

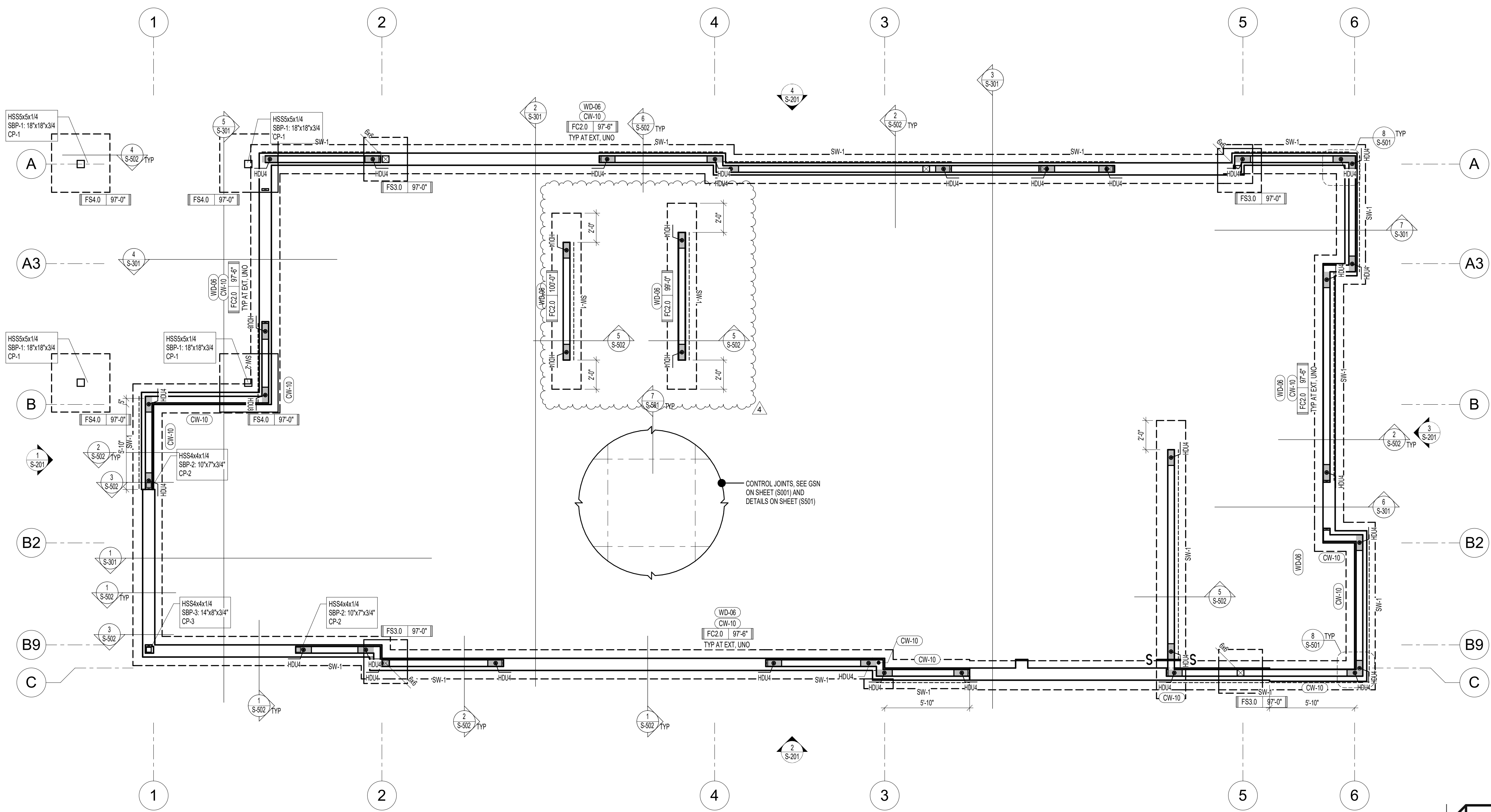
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- ### FOOTING AND FOUNDATION PLAN NOTES:
- FLOOR SLAB SHALL BE 4" UNREINFORCED CONCRETE SLAB ON GRADE OVER 4" FREE-DRAINING GRAVEL.
  - SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND NON-BEARING WALL LOCATIONS. SEE ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS FOR SLAB ELEVATIONS, SLOPED SLABS, DEPRESSED SLABS, FLOOR DRAINS, ETC. SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
  - SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION
  - SEE SCHEDULES ON (S-800) SHEETS FOR:
    - FOOTINGS
    - BASE PLATES
    - CONCRETE WALLS
    - CONCRETE PIERS
    - REINFORCING SPLICE LENGTHS
    - SHEAR WALLS AND HOLD-DOWNS
    - MASONRY FREE STANDING WALL
    - WOOD BEARING WALLS
  - SEE TYPICAL FOOTING AND FOUNDATION DETAILS ON (S-500) SHEETS FOR:
    - SLAB CONSTRUCTION AND CONTROL JOINTS
    - FOOTING STEPS
    - CORNER BARS
    - PIES PERPENDICULAR AND PARALLEL TO FOOTINGS
    - DEPRESSED SLABS
    - REINFORCING AT MISCELLANEOUS OPENINGS
    - REINFORCING AT SLAB DISCONTINUITIES
    - FROST COVER AND STRUCTURAL FILL
    - SOLE PLATE ANCHOR BOLTS
    - FLOOR OFFSETS
    - NON-BEARING WALLS

- ### MARKS AND SYMBOLS LEGEND
- SECTION MARK SHEET NUMBER
  - FTG | EL | FOOTING DESIGNATION TOF ELEVATION
  - DEPRESSED FOUNDATION WALL POUR SLAB OVER
  - S - S FOOTING STEP, SEE DETAILS
  - FLOOR OFFSET, SEE DETAILS
  - DEPRESSED SLAB, SEE ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION
  - CONCRETE WALL
  - SHEAR WALL ABOVE, DASHED LINE INDICATES SIDE OF SHEATHING, CIRCLE INDICATES HOLD-DOWN, RECTANGULAR SHADED REGION INDICATES ESTIMATED COMPRESSION POST ASSEMBLY WIDTH (NO MECH PEN), SEE SCHEDULE
  - WOOD WALL
  - WOOD POST ABOVE, 6x6 BEARING POST, UNO
  - STEEL COLUMN
  - CONTROL JOINT
  - CONTINUOUS FOOTING, SEE SCHEDULE
  - SPOT FOOTING, SEE SCHEDULE
  - HOLD-DOWN TYPE, SEE SCHEDULE
  - WOOD SHEAR WALL, SEE SCHEDULE
  - CONCRETE WALL, SEE SCHEDULE
  - WOOD WALL, SEE SCHEDULE



**1 FOOTING AND FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

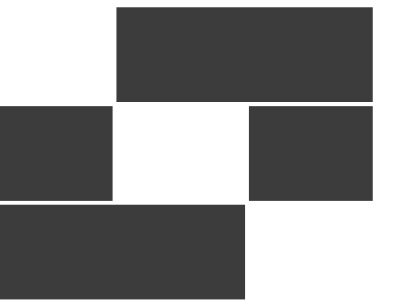
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06/08/2022  
PROFESSIONAL ENGINEER

1-21-22  
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NOTE:  
THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED 12.09.2021

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**MOBETTAHS** for  
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sheet title:  
**ROOF FRAMING PLAN**

sheet number:

**S-102**

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**ROOF FRAMING PLAN NOTES:**

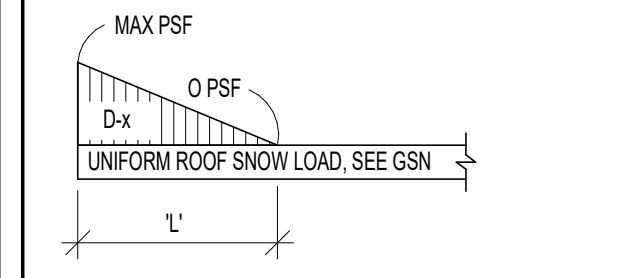
- TYPICAL ROOF FRAMING IS WOOD TRUSSES AT 32"oc (MAX) UNO. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
- ALL EXTERIOR WALLS SHALL BE SHEATHED WITH 7/16" SHEATHING AND NAILED WITH 8d NAILS AT 8"oc AT PANEL EDGES AND AT 24"oc IN THE FIELD, TYPICAL, UNLESS NOTED OTHERWISE. SEE SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- TRUSSES, INCLUDING ALL TRUSS CONNECTIONS, SHALL BE PER THE PRE-FABRICATED WOOD TRUSS NOTES SECTION OF THE GENERAL STRUCTURAL NOTES.
- WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE SUBMITTED TO ARCHITECT IN WRITING FOR REVIEW PRIOR TO FABRICATION OF OR PLACEMENT OF TRUSSES OR OTHER FRAMING MEMBERS.
- ALL GIRDERS BEARING LOCATIONS SHALL HAVE MULTIPLE STUDS OR POSTS, AND SHALL BE OF CONTINUOUS FRAMING TO THE FOUNDATION LEVEL BELOW, INCLUDING FULL HEIGHT, FULL DEPTH SQUASH BLOCKING WITHIN THE FLOOR FRAMING.
- WALL STUDS SHALL BE CONTINUOUS BETWEEN POINTS OF LATERAL SUPPORT SUCH AS ROOFS AND FLOORS. PROVIDE TOP PLATES FOR WALLS AT TRUSS BEARING AND/OR AT LATERAL BRACING LOCATIONS ONLY. DO NOT PLACE TOP PLATES AT UNBRACED LOCATIONS.
- BEAMS SHOWN ON THIS SHEET OCCUR WITHIN THE ROOF FRAMING SHOWN (FLUSH-FRAMED), UNO.
- SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES, DRAINS, PARAPETS, DECK BEARING ELEVATIONS, CEILING ELEVATIONS, AND SOFFIT ELEVATIONS.
- SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
- SEE SCHEDULES ON (S-800) SHEETS FOR:
  - HEADERS
  - SHEAR WALLS
  - HOLD-DOWNS AND TIE-DOWNS
  - MINIMUM NAILING
  - ROOF SHEATHING
  - BEARING WALLS AND RIM BOARD
  - FREESTANDING MASONRY WALLS
- SEE TYPICAL FRAMING DETAILS ON (S-700) SHEETS FOR:
  - BUILT-UP BEAMS AND COLUMNS
  - TOP PLATE SPLICES / STRAPS
  - HOLES AND NOTCHES
  - SHEATHING JOINTS
- SEE TYPICAL FRAMING DETAILS ON (S-700) SHEETS FOR:
  - FRAMING AT ROOF OPENINGS
  - NON-BEARING WALL CONNECTIONS

**MARKS & SYMBOLS LEGEND**

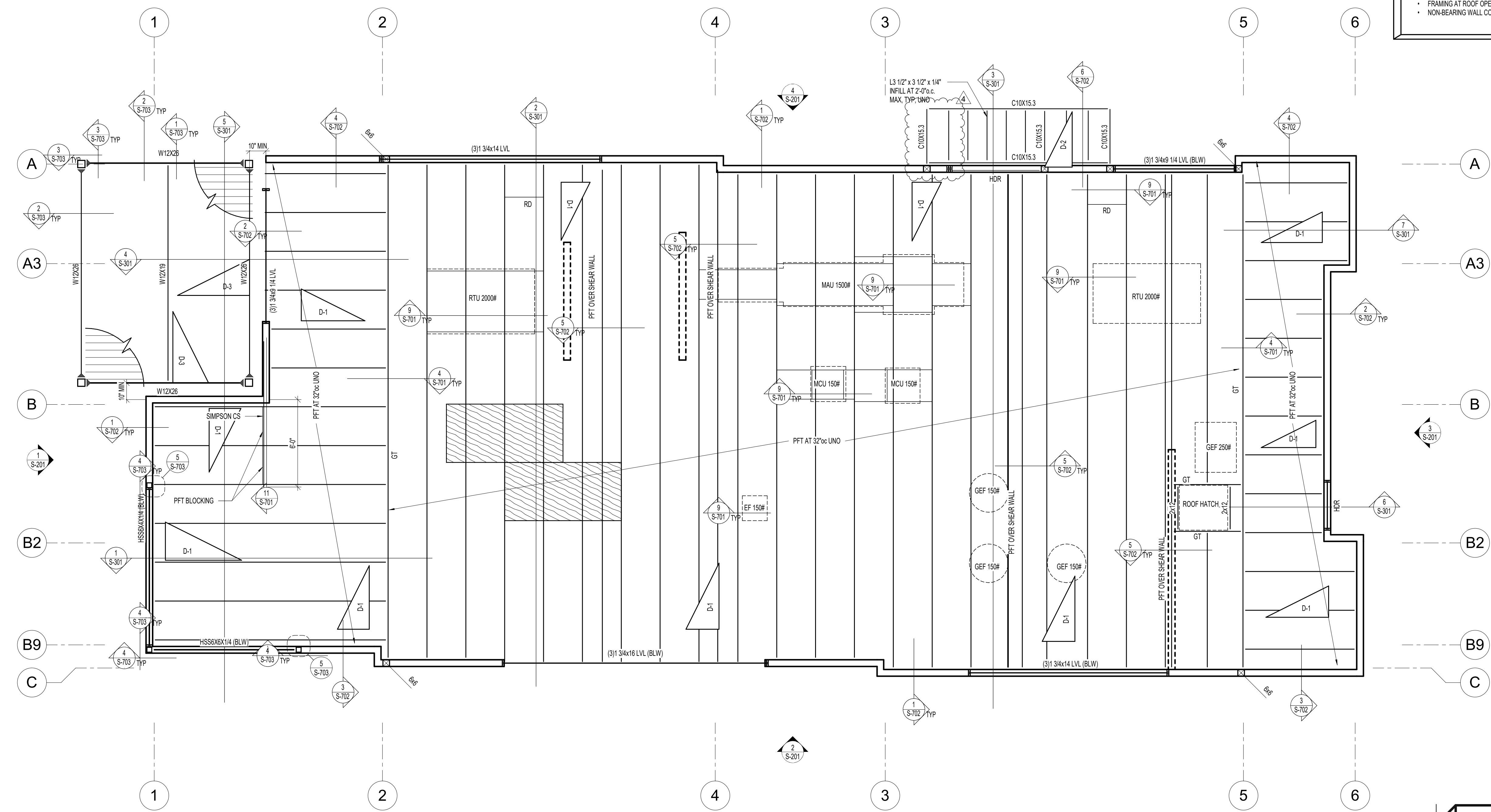
- SECTION MARK SHEET NUMBER
- ROOF OR FLOOR SHEATHING ORIENTATION, SEE SCHEDULE AND GENERAL STRUCTURAL NOTES
- WOOD WALL BELOW
- SHEAR WALL ABOVE, DASHED LINE INDICATES SIDE OF SHEATHING, CIRCLE INDICATES HOLD-DOWN, RECTANGULAR SHADED REGION INDICATES ESTIMATED COMPRESSION POST ASSEMBLY WIDTH (NO MECH PEN), SEE SCHEDULE
- WOOD POST ABOVE, 6x6 BEARING POST, UNO
- STEEL COLUMN
- SIMPSON COIL STRAP TIE-DOWN, SEE SCHEDULE
- BEAM OCCURS BELOW FRAMING AT THIS LEVEL
- WOOD HEADER BELOW FRAMING AT THIS LEVEL, SEE SCHEDULE
- PREFAB TRUSS OVER SHEAR WALL BELOW, TRUSS SHALL BE DESIGNED TO TRANSFER 450 PLF IN-PLANE
- PREFAB TRUSSES, SEE GENERAL STRUCTURAL NOTES
- ROOF DRAIN, SEE ARCHITECTURAL AND MECHANICAL FOR EXACT LOCATION

**SNOW DRIFT LOADING DIAGRAM**

D-1	MAX = 36 PSF L = 8' - 7"	D-2	MAX = 29.7 PSF L = 7' - 2"
D-3	MAX = 59 PSF L = 10' - 10"		



WHERE 'L' EXCEEDS LENGTH OF LOWER ROOF, DRIFT TAPERS TO 0 PSF AT THE FAR END OF LOWER ROOF



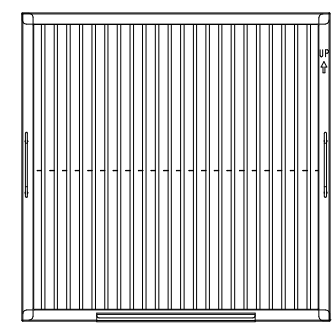
**1 ROOF PLAN**  
S-102 SCALE: 1/4" = 1'-0"

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STATE OF MISSOURI  
RONALD J. DUNN  
PE, 240524487  
06/08/2022  
PROFESSIONAL ENGINEER

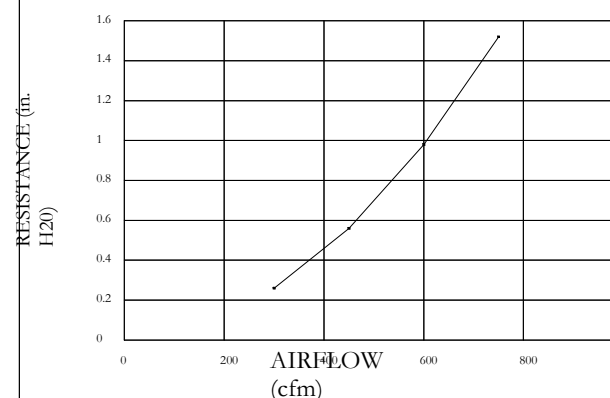
1-21-22  
**PERMIT SET**

NOTE:  
THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS DATED 12.09.2021  
DIMENSIONS AND ELEVATIONS, AS THEY RELATE TO THE BUILDING IN GENERAL, I.E. GRID TO GRID DIMENSIONS OR DECK BEARING ELEVATIONS, ARE SUPPLIED BY THE ARCHITECT. THEY ARE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVIENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.



Grease-Stop Solo Filter

RESISTANCE VS. AIRFLOW



Filter Detail

CAPTRATE

EXHAUST CFM=LENGTH OF HOOD X CFM/LINEAL FOOT

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

TOTAL DUCT AREA=144 CFM

DUCT LENGTH= TOTAL DUCT AREA / DUCT DIA

CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1000-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM

PLEASE CONSULT FACTORY FOR MAXIMUM ALLOWABLE DUCT SIZES

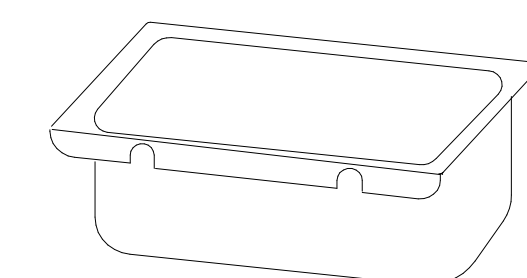
CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

- 1. NFPA #96
2. ETL SANITATION
3. ETL LISTED 304304-001
4. ETL IS USED TO ILC STANDARDS
5. NSF

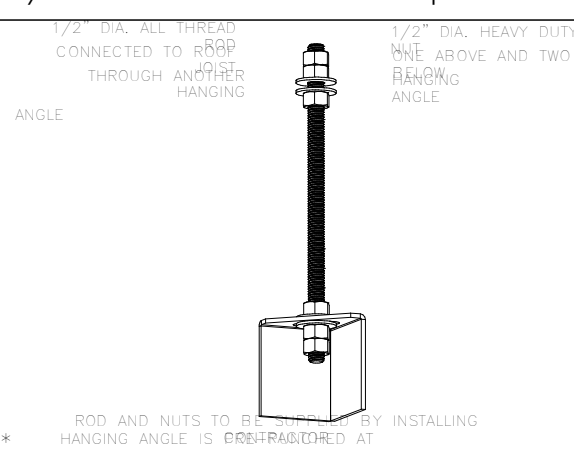


BUILDING CODES



Grease Cup will be supported by 2 studs on the inside wall of the hood. The grease will drain through a concealed grease trough and into this removable cup.

1/2 Pint Grease Cup Detail



NR-2 HANGING ANGLE DETAIL

THE FOLLOWING FOR WALLS AND CANOPIES

Table with columns: HOOD STYLE, DIM FROM REAR, DIM FROM FRONT (24" High Hood), DIM FROM FRONT (30" High Hood). Rows include Wall (Exhaust Only, With MUA), Back Shelf (Exhaust Only, With MUA), and Condensate.

HANGING ANGLE LOCATIONS

FOR QUESTIONS, CALL THE Utah Office REGION #7 PHONE: (801) 878-3677 EMAIL: reg87@captivaire.com

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2. AC-PSP WALL (CANADA) - CA PATENT 2820509. AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#5504584

Table with columns: HOOD NO, TAG, MODEL, MANUFACTURER, LENGTH, MAX COOKING TEMP, TYPE, APPLIANCE DUTY, DESIGN CFM/FT, TOTAL EXH CFM, EXHAUST PLENUM RISER(S) (WIDTH, LENG, HEIGHT, DIA, CFM, VEL, SP), TOTAL SUPPLY CFM, HOOD CONSTRUCTION, HOOD CONFIG (END TO END, ROW).

HOOD INFORMATION

Table with columns: HOOD NO, TAG, FILTER(S) (TYPE, QTY, HEIGHT, LENGTH, EFFICIENCY @ 7 MICRONS, QTY), LIGHT(S) (TYPE, WIRE GUARD, LOCATION, SIZE), UTILITY CABINET(S) (FIRE SYSTEM, ELECTRICAL, SWITCHES), FIRE SYSTEM HANGING WEIGHT.

HOOD OPTIONS

Table with columns: HOOD NO, TAG, OPTION. Lists various options for hood configuration, including field wrapper, backsplash, splash, end standoffs, structural front panel, riser sensor, and wall panels.

PERFORATED SUPPLY PLENUM(S)

Table with columns: HOOD NO, TAG, POS, LENGTH, WIDTH, HEIGHT, TYPE, RISER(S) (WIDTH, LENG, DIA, CFM, SP). Lists perforated supply plenum specifications for hood 1 and 2.

GREASE DUCT & CHIMNEY SPECIFICATIONS: PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE. PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS. IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

VERIFY CEILING HEIGHT. HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS.

HVAC DISTRIBUTION NOTE. HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

CUSTOMER APPROVAL TO MANUFACTURE: APPROVED AS NOTED, APPROVED WITH NO EXCEPTION TAKEN, REVISE AND RESUBMIT.

TYPE 1 HOOD NOTES. 1. HOOD(S), ANSUL SYSTEM, MAKE UP AIR UNIT(S), EXHAUST FAN(S) AND GREASE DUCT ARE PROVIDED BY OWNER AND INSTALLED BY MECHANICAL CONTRACTOR. 2. GREASE EXHAUST FANS SHALL BE INSTALLED SUCH THAT THE DISCHARGE IS A MINIMUM OF 40' ABOVE ROOF. 3. MECHANICAL CONTRACTOR IS TO PROVIDE/INSTALL A HEAT SENSOR IN EACH HOOD AND OVEN THAT WILL BE INTERLOCKED WITH THE HOOD EXHAUST FAN AND CORRESPONDING MAKE UP AIR UNIT. 4. ALL EXHAUST DUCTWORK SERVING TYPE 1 HOODS IS TO BE PRE-MANUFACTURED DUCT RATED AND LISTED FOR GREASE HOOD APPLICATION WITH 18" TO COMBUSTIBLE RATING. 5. ALL HORIZONTAL SECTIONS OF GREASE DUCT SHALL BE SLOPED BACK TO THE HOOD AT A MINIMUM SLOPE OF 1/4" PER FOOT. 6. PROVIDE GREASE DUCT ACCESS DOORS AT EACH ELBOW AND EVERY 20'. 7. GREASE FANS SHALL BE PROVIDED WITH UL 782 LISTING FOR GREASE, PROVIDED WITH A HINGED, VENTED CURB AND FLEXIBLE ELECTRICAL CONNECTION FOR CLEANING ACCESS. 8. PLUMBING CONTRACTOR IS TO INSTALL AND MAKE ALL FINAL CONNECTIONS TO EMERGENCY NATURAL GAS SHUT OFF VALVE. VALVE WILL BE PROVIDED WITH ANSUL SYSTEM.

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

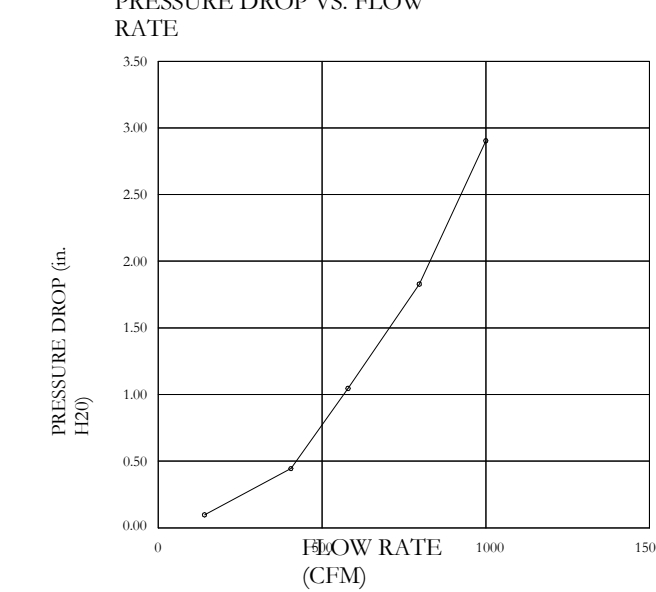
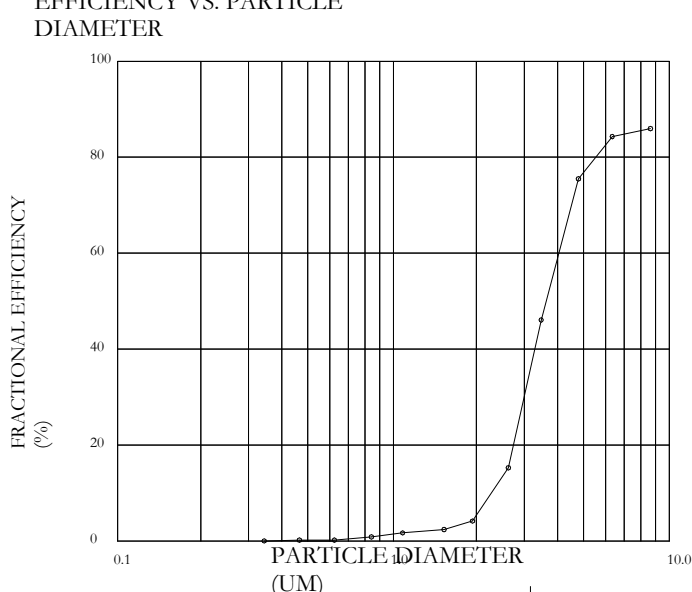
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER EFFICIENCY VS. PARTICLE DIAMETER.



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH: NFPA #96, NSF STANDARD #2, UL STANDARD #1046, INT. MECH. CODE (IMC), ULC-S649.



Mo' Bettahs Lee's Summit R1, 520 NW Chipman Rd., Lee's Summit, MO, 64086

6/7/2022, 5504584, SLS

3/4" = 1'-0"

MASTER DRAWING

sheet number:

CAPTIVEAIRE logo and Utah Office contact information.

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sheet information

revisions: description date

Table with 3 columns: num., description, date. Row 1: 4, REV04, 06.07.22

date: 01/17/2022

project number: MO-53LEE

project status: ISSUED FOR CONSTRUCTION

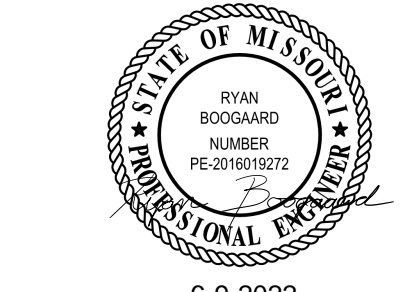
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MOBETTAHS (TI) for LEE'S SUMMIT

520 NW Chipman Rd, Lee's Summit, MO 64086

Mo' Bettahs Lee's Summit R1, 520 NW Chipman Rd., Lee's Summit, MO, 64086

6/7/2022, 5504584, SLS

3/4" = 1'-0"

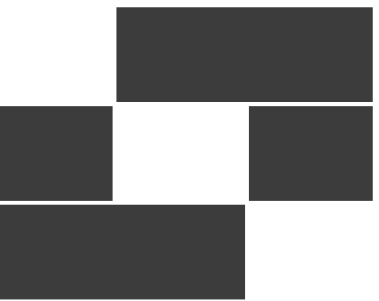
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SPECTRUM ENGINEERS, 324 S. State St., Suite 400, Salt Lake City, UT 84111, 801-328-5151, www.spectrum-engineers.com

sheet title:

KITCHEN MECHANICAL EQUIPMENT

ME503



**Babcock Design**

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num.	description	date
4	REV04	06.07.22

date: 01/17/2022

project number: MO-53LEE

project status: ISSUED FOR CONSTRUCTION

original drawing is 34" x 36"

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520 NW Chipman Rd, Lee's Summit, MO 64086

Mo' Bettahs Lee's Summit R1

520 NW Chipman Rd, Lee's Summit, MO, 64086

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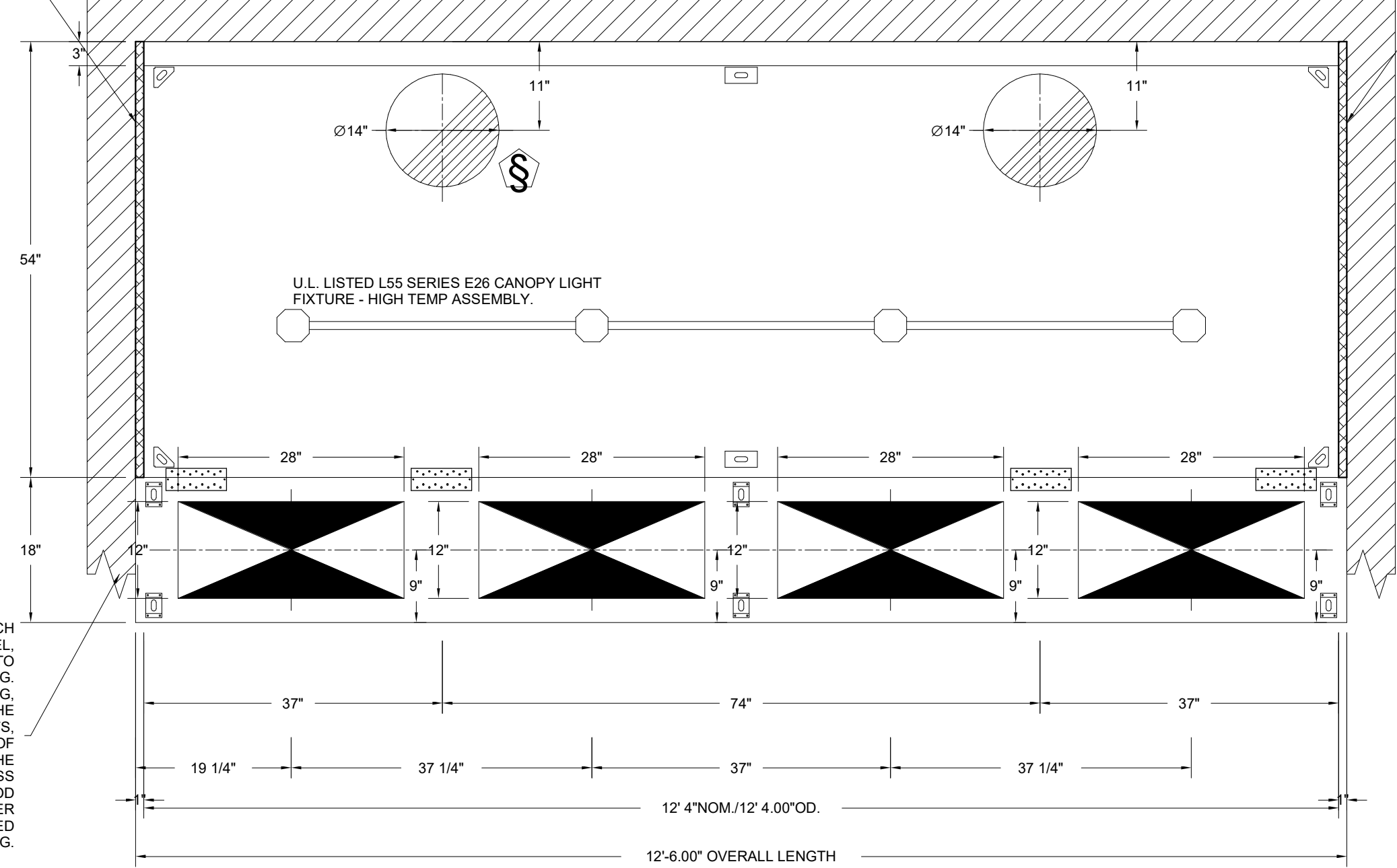
fax: 801-328-5155

www.spectrum-engineers.com

sheet title: KITCHEN MECHANICAL EQUIPMENT

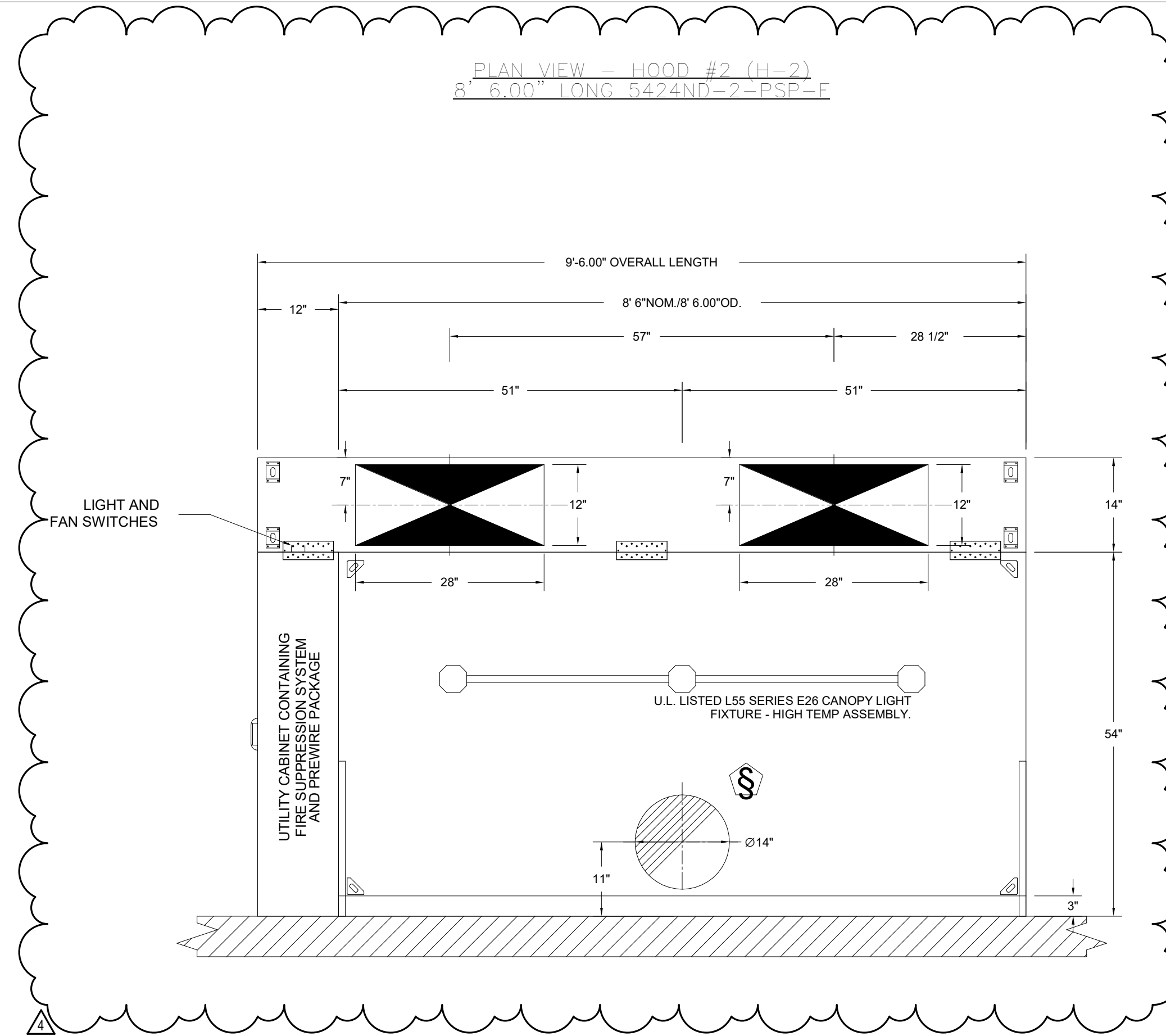
sheet number: ME504

1" LAYER OF INSULATION FACTORY INSTALLED IN 1.00" END STANDOFF MEETS 0" REQUIREMENTS CLEARANCE TO COMBUSTIBLE SURFACES.



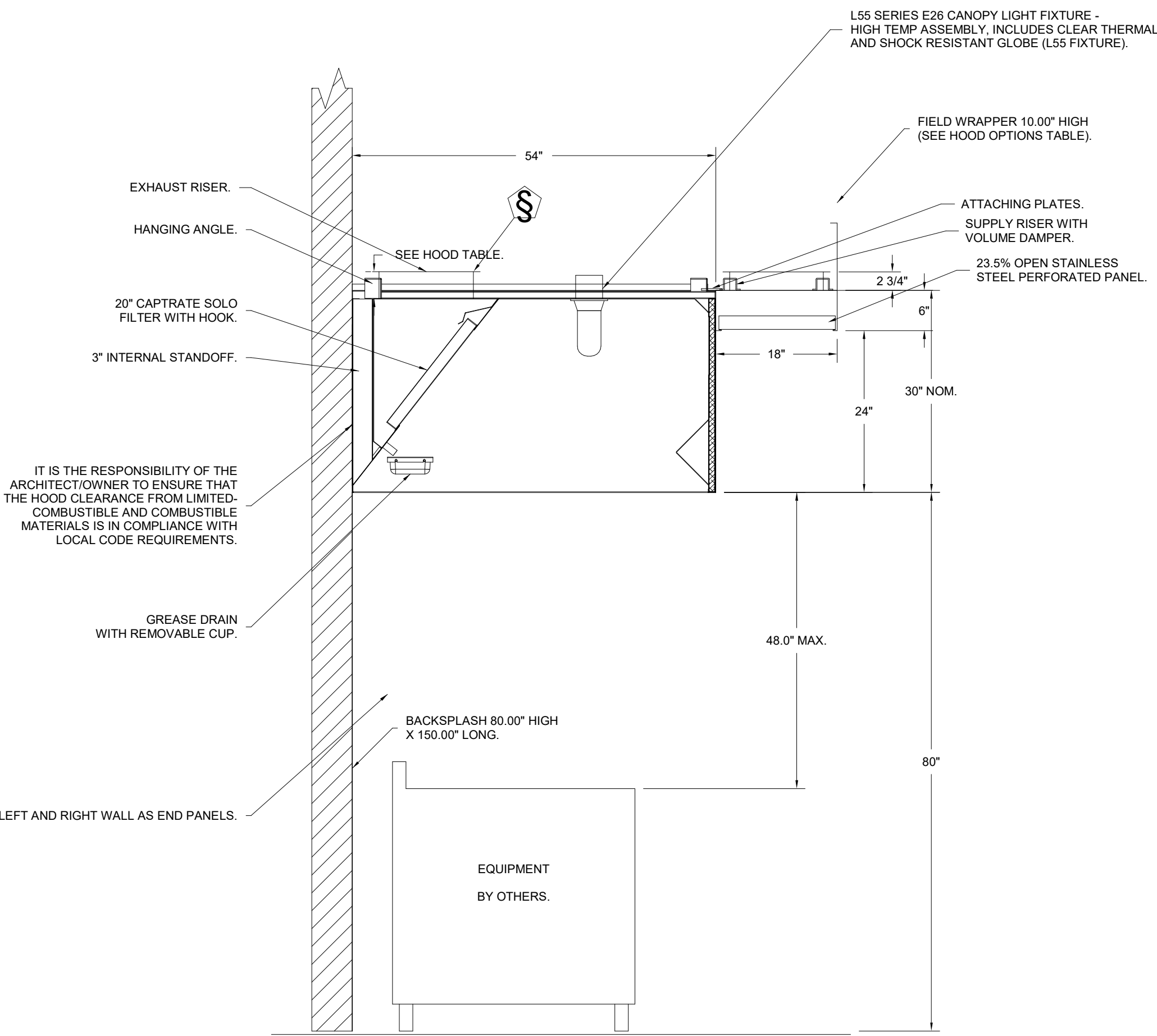
PLAN VIEW - HOOD #1 (H-1)  
12' 4.00" LONG 54' 3.00" ND-2-PSP-F  
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

1" LAYER OF INSULATION FACTORY INSTALLED IN 1.00" END STANDOFF MEETS 0" REQUIREMENTS CLEARANCE TO COMBUSTIBLE SURFACES.

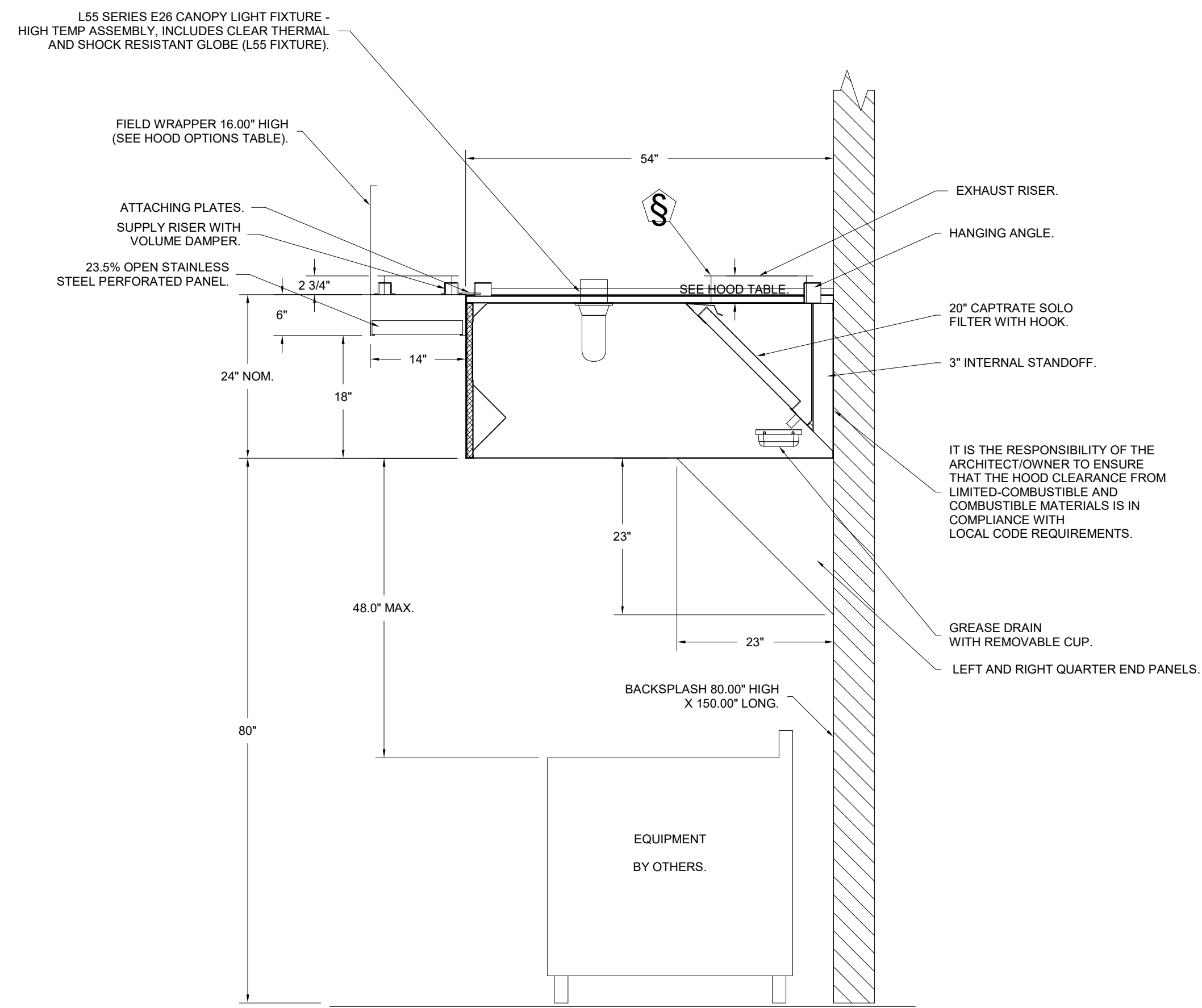


PLAN VIEW - HOOD #2 (H-2)  
8' 6.00" LONG 54' 2.00" ND-2-PSP-F

INSTALLER MUST CONFIRM HOOD IS INSTALLED SUCH THAT THE SPECIFIED WALL, ACTING AS AN END PANEL, IS MATED TIGHT TO THE CORRECT END OF HOOD TO ACHIEVE A REDUCED MINIMUM EXHAUST CFM LISTING. NON-COMPLIANCE WILL NULLIFY THE ETL LISTING. VOID THE MANUFACTURER'S WARRANTY, AND HOLD THE CONTRACTOR LIABLE FOR ANY AND ALL LOSSES, COSTS, AND EXPENSES RELATED TO THE NON-COMFORMANCE OF THE MANUFACTURER'S SPECIFIED INSTRUCTION. THE WALL ACTING AS AN END PANEL MUST EXTEND NO LESS THAN 20" FROM THE INTERSECTING WALL ON WHICH HOOD IS MOUNTED AND MUST EXTEND NO LESS THAN 20" UNDER BOTTOM OF HOOD TO BE ELIGIBLE FOR REDUCED MINIMUM EXHAUST CFM LISTING.



SECTION VIEW - MODEL 5430ND-2-PSP-F  
HOOD - #1 (H-1)



SECTION VIEW - MODEL 5424ND-2-PSP-F  
HOOD - #2 (H-2)

**CAPTIVE**  
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Mo' Bettahs Lee's Summit R1

520 NW Chipman Rd,  
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6/7/2022

5504584

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3/4" = 1'-0"

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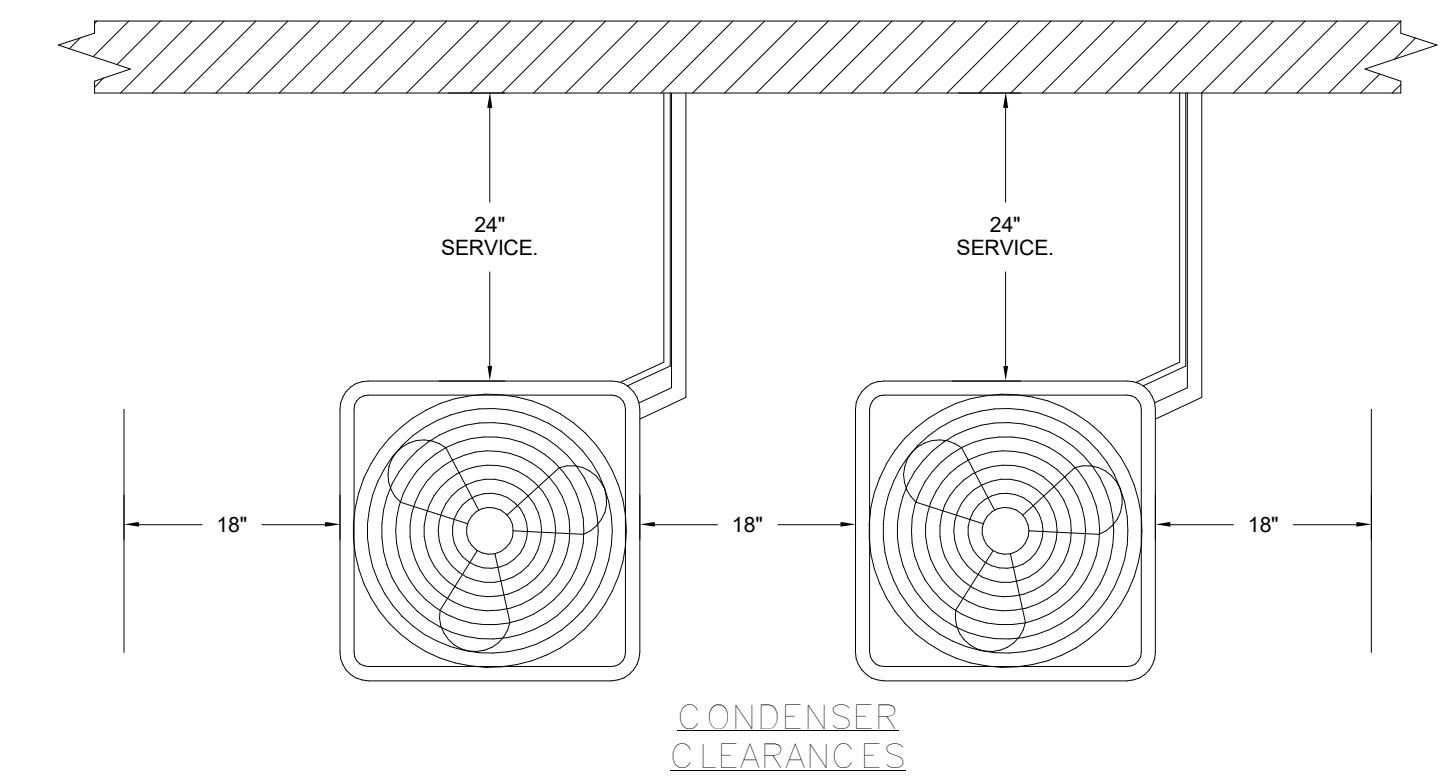
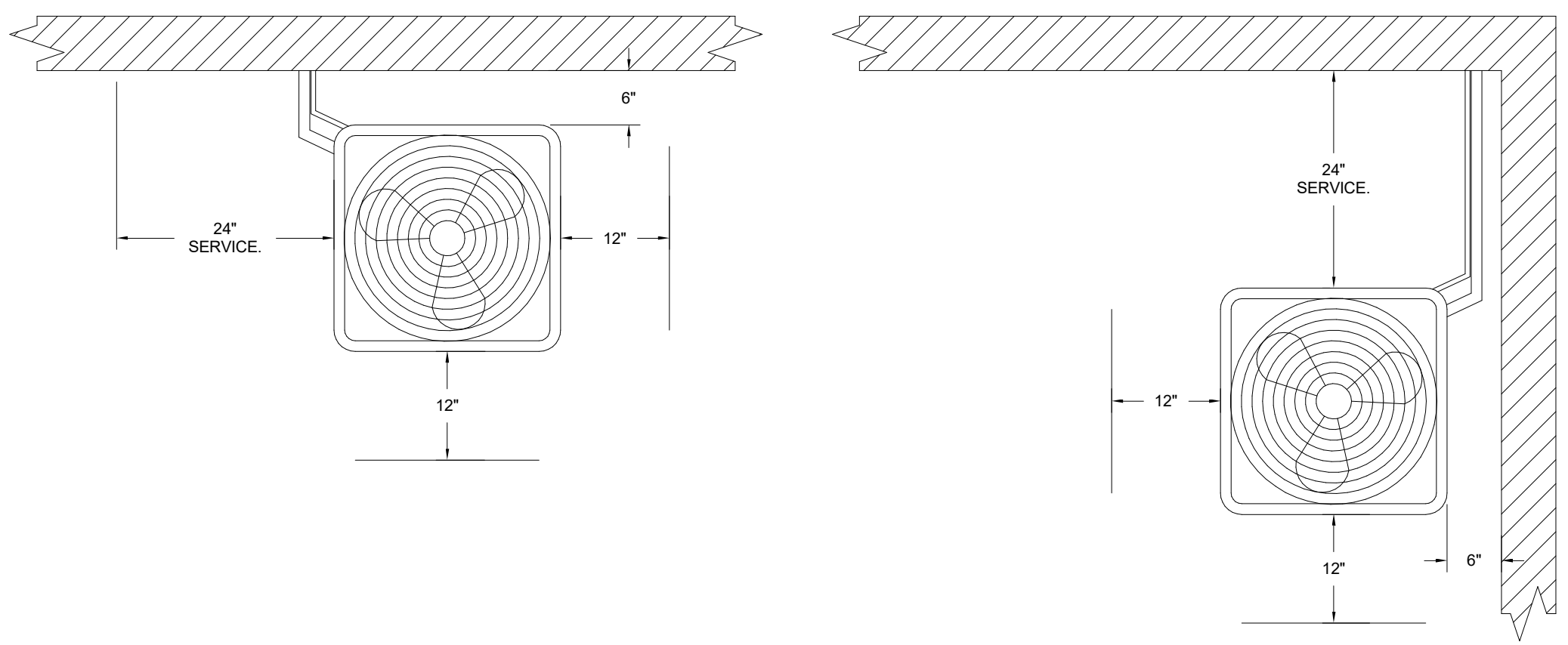
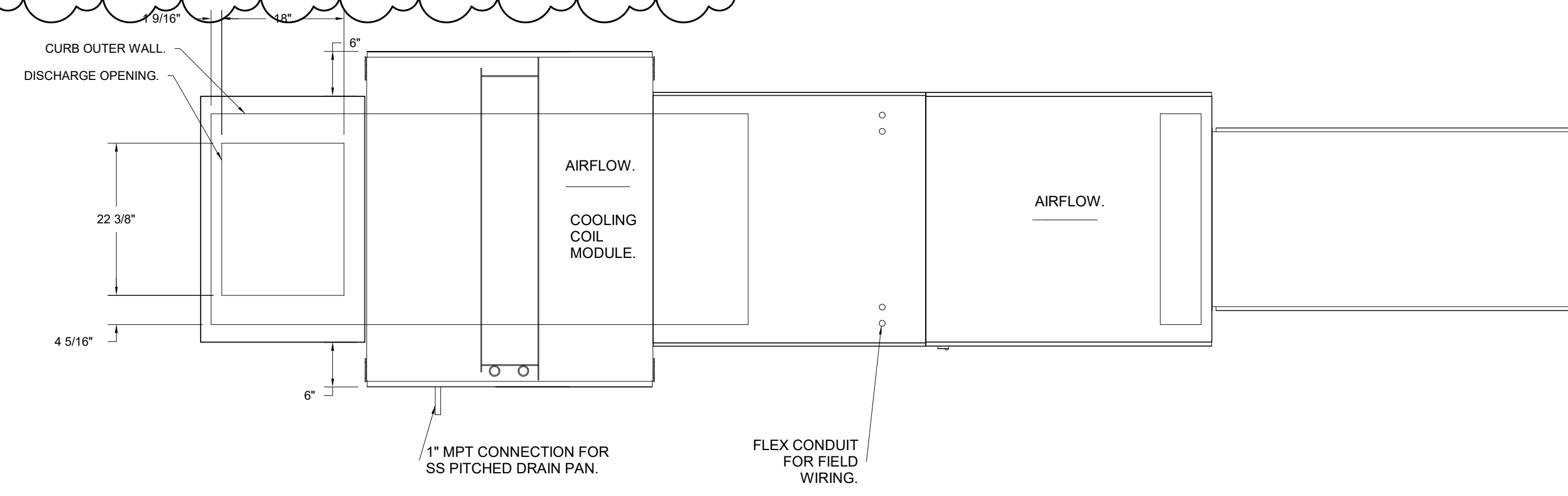


- FAN #4 A2-D-500-200-MPU - HEATER
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN.
  2. INTAKE HOOD WITH EZ FILTERS.
  3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
  4. GAS PRESSURE GAUGE, 0-35" 2.5" DIAMETER, 1/4" THREAD SIZE.
  5. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE.
  6. MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, LF120S ACTUATOR INCLUDED.
  7. 8 TON, DUAL CIRCUIT (3/8) MODULAR PACKAGED COOLING OPTION FOR SIZE 2 DF/EFH MODULAR PACKAGED UNIT, INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING, (2,900 TO 4,800 CFM) WHEN ORDERED WITH OPPOSITE AIRFLOW CONDENSERS ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION, DRAIN AND SLEDS WILL MOVE TO THE OPPOSITE SIDE. ANY OTHER CHANGE WILL REQUIRE CUI. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION, COIL = 3E21101C.
  8. DOWNTURN PLENUM FOR SIZE 2 COOLING COIL MODULE - REQUIRED FOR DOWN DISCHARGE COOLING COIL APPLICATIONS.
  9. LOW FIRE START - ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
  10. SHIP CONDENSERS LOOSE. THE REFRIGERATION LINES WILL NEED TO BE STUBBED OUT 12 INCHES. THE SUCTION LINES NEEDS TO BE INSULATED INSIDE THE COIL MODULE. ROTARY DISCONNECT SHOULD NOT BE INSTALLED ON THE POST, BLANK POST SHOULD BE USED IN PLACE.
  11. DX COOLING INTAKE AIR THERMOSTAT AND RELAYS MOUNTED IN UNIT - SET POINT FOR THERMOSTAT SHOULD BE 85°F.
  12. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
  13. UNIT MOUNTED DCV FOR USE WITH ECPM03.
  14. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/MPU SECTION).
  15. 2 YEAR PARTS WARRANTY.

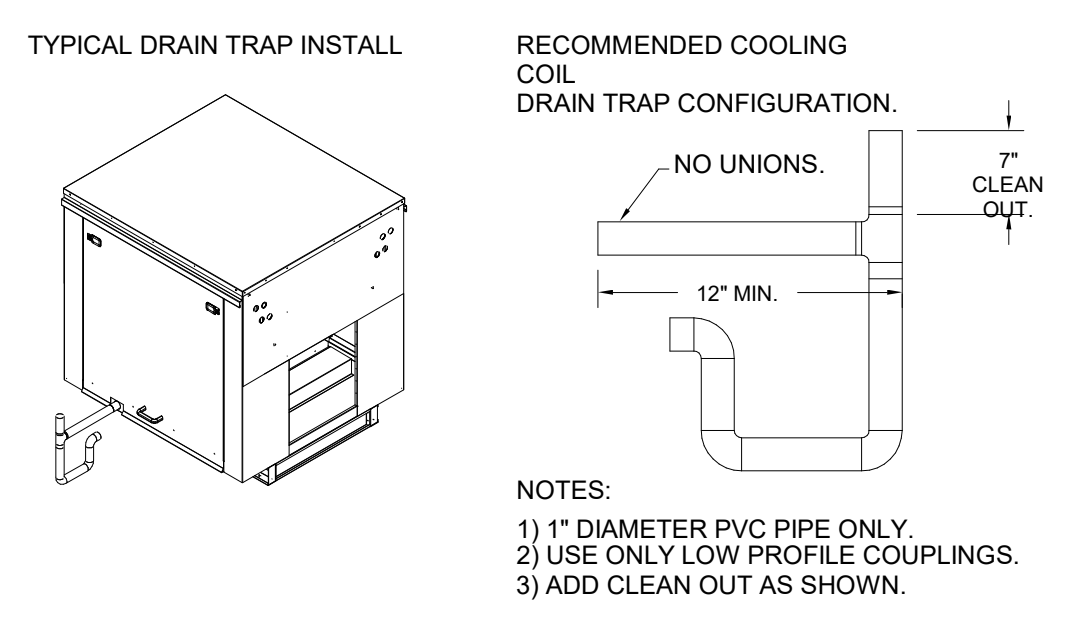
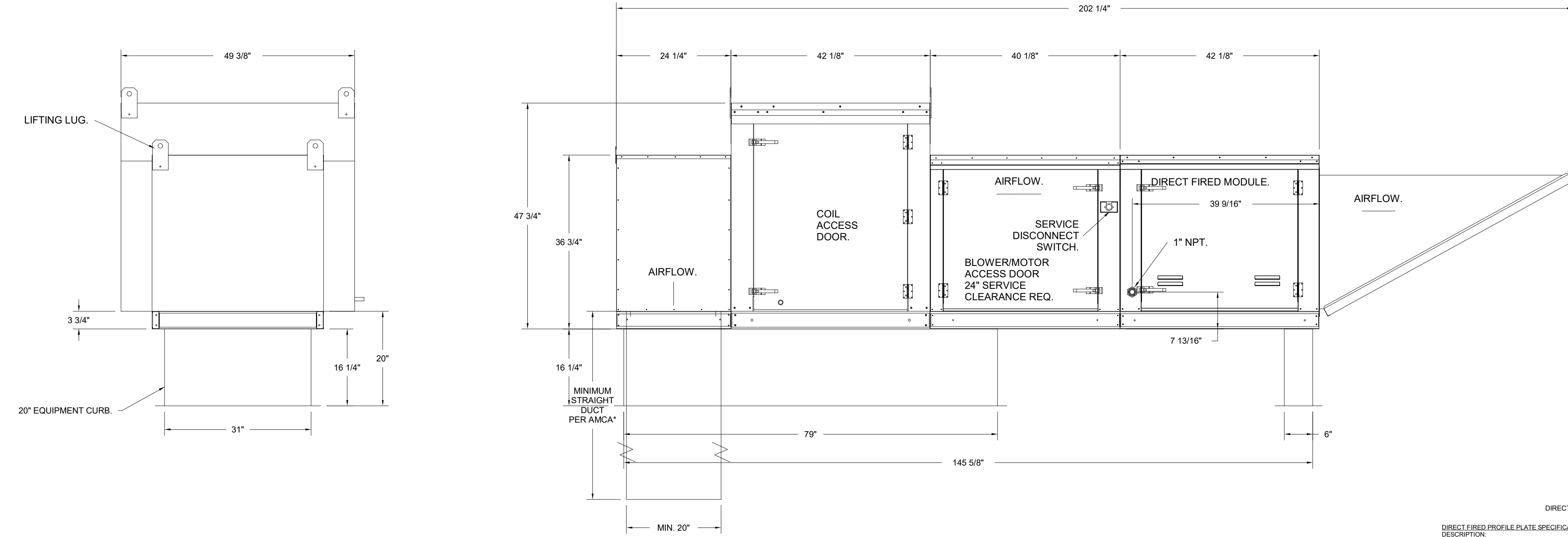
\*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRAMATICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" X 20".

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 9°F. TEMP. RISE = 76°F.  
 BTUS CALCULATED OFF ACTUAL AIR DENSITY.  
 OUTPUT BTUS AT ALTITUDE OF 0.0 FT. = 357967.  
 INPUT BTUS AT ALTITUDE OF 0.0 FT. = 388986.  
 OUTPUT BTUS AT ALTITUDE OF 751 FT. = 348261.  
 INPUT BTUS AT ALTITUDE OF 751 FT. = 378545.



48" CLEARANCE REQUIRED ABOVE CONDENSERS.  
 (NOTE: \*\*CONDENSERS SHOWN HERE ARE NOT DRAWN AT SCALE.)



- NOTES:
- 1) 1" DIAMETER PVC PIPE ONLY.
  - 2) USE ONLY LOW PROFILE COUPLINGS.
  - 3) ADD CLEAN OUT AS SHOWN.

**DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY**

**DIRECT FIRED PROFILE PLATE SPECIFICATIONS:**

**DESCRIPTION:**  
 DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US5662952B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 5PPM OF CARBON MONOXIDE (CO) AND 0.5PPM OF NITROGEN DIOXIDE (NO2).  
 UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

**APPLICATION:**  
 SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM WITH THIS FEATURE. ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

**CERTIFICATIONS:**  
 ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z39.4 AND CSA 3.7 (NON-RECIRCULATING OF HEATERS) AND ANSI Z39.18 (RECIRCULATING OF HEATERS).

**GENERAL CONSTRUCTION:**  
 -PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.  
 -PROFILE PLATES SHALL VARY IN SIZE PER UNIT.  
 -PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.  
 -DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGERS.  
 -SPRING HINGERS SHALL BE MADE FROM PLATED STEEL.

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11/18/2021	5194064	SLS	3/4" = 1'-0"
<b>MASTER DRAWING</b>			

Mo' Bettahs Lee's Summit MO  
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sheet information		
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4	REV04	06.07.22

date: 01/17/2022  
 project number: MO-S3LEE  
 project status: ISSUED FOR CONSTRUCTION  
 original drawing is 34" x 36"  
 current as of: 6/8/2022 11:21:50 AM

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stamp:  
 stamp:  
 RYAN BOGGARD  
 NUMBER  
 PE-2018910272  
 6-9-2022

project information:  
**MOBETTAHS (TI)**  
 for  
**LEE'S SUMMIT**  
 520 NW Chipman Rd  
 Lee's Summit, MO 64086

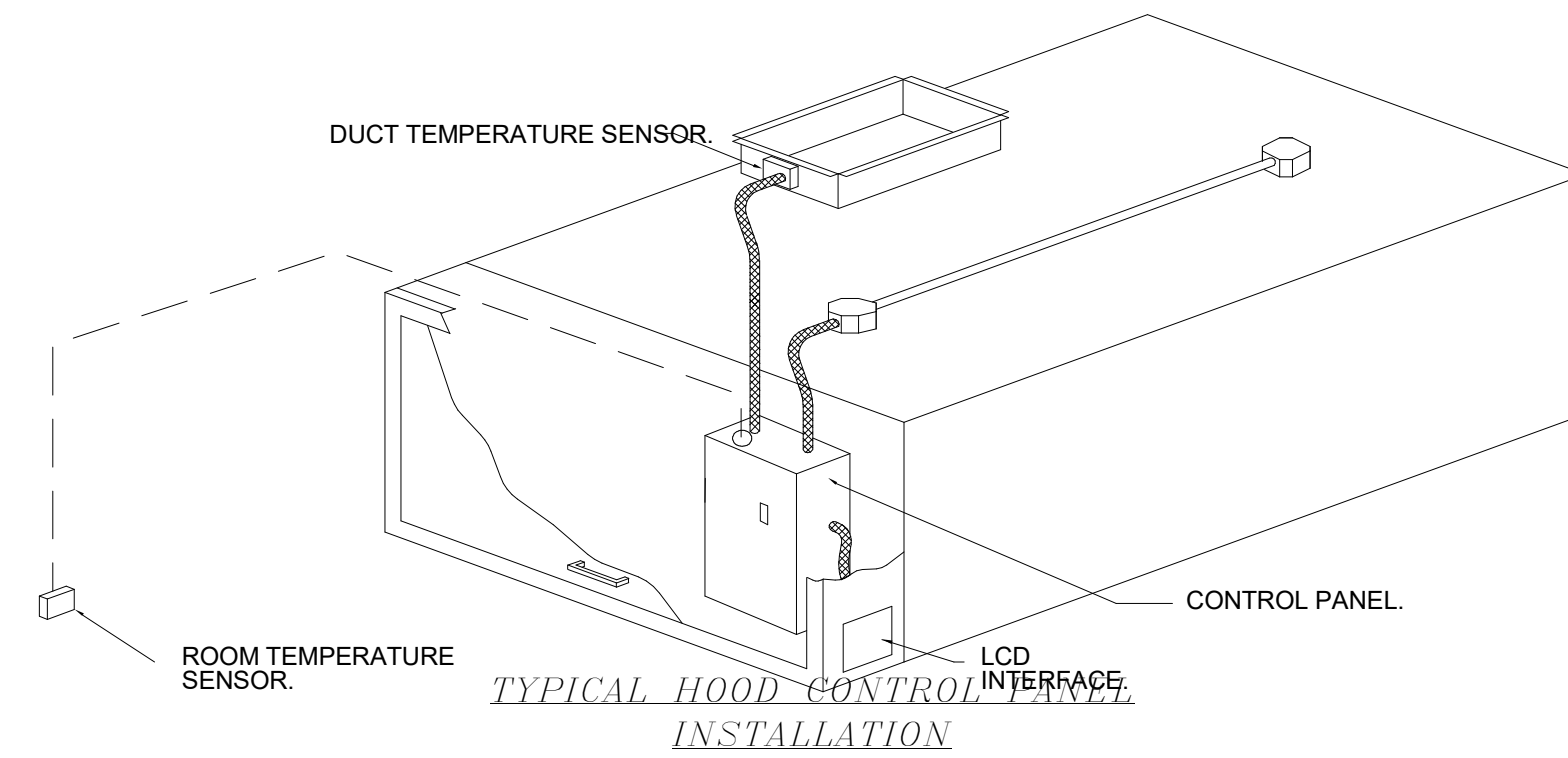
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sheet title:  
**KITCHEN MECHANICAL EQUIPMENT**

sheet number:  
**ME507**

**DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:**

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.2.8 (2015).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDs) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDs BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED ON A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  - A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  - B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  - C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  - F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  - G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDs.



**SEQUENCE OF OPERATIONS:**

- THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:
  - **AUTOMATIC:** THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.2.8.
  - **MANUAL:** THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
  - **SCHEDULE:** WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
  - **OTHER:** THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
  - **FIRE:** UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

**ELECTRICAL PACKAGE - JOB#5504584**

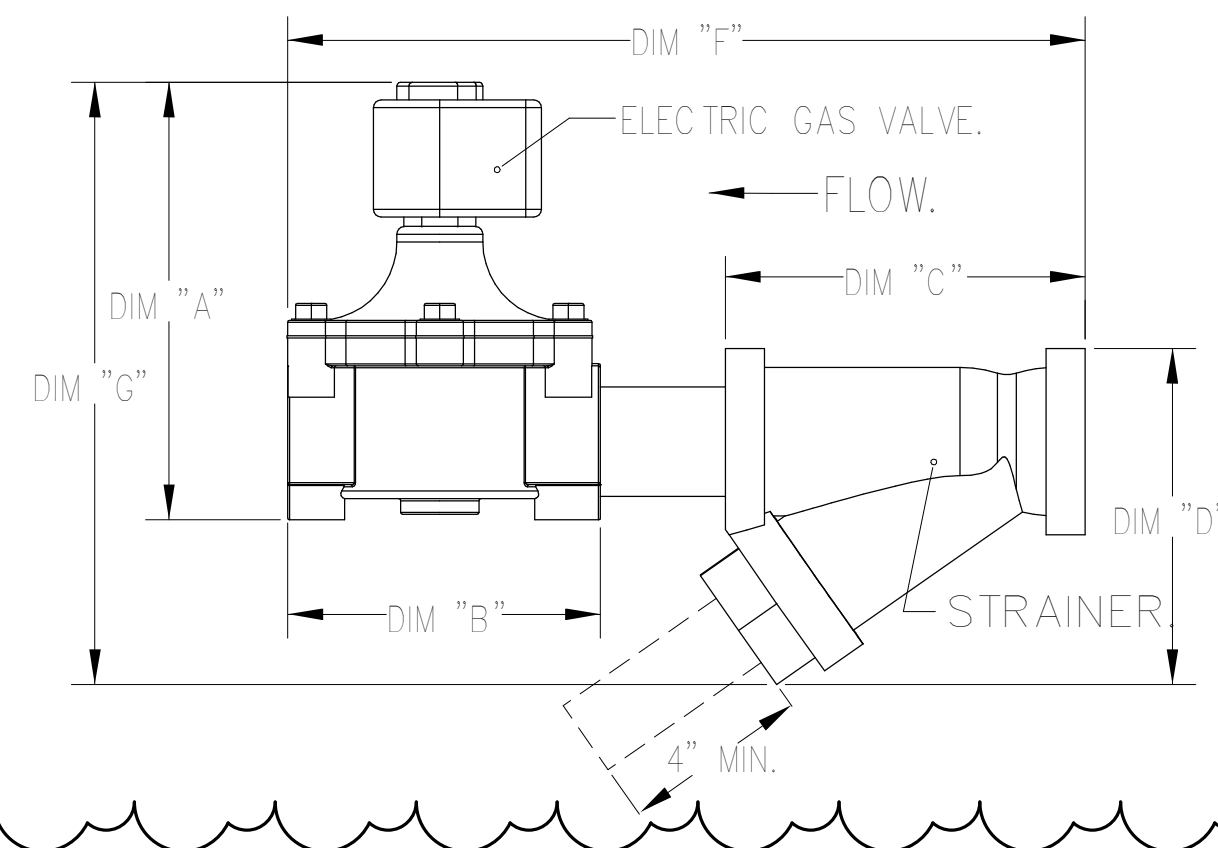
NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	HP	VOLT	FLA	
1		DCV-3111	UTILITY CABINET RIGHT	04 - UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS DCV	EF-1	EXHAUST	1	1,000	208	6.9
				HOOD # 2	1 FAN		EF-2	EXHAUST	1	1,000	208	6.9
							EF-3	EXHAUST	1	1,000	208	6.9
							MAU-1	SUPPLY	3	5,000	208	15.0

**GAS VALVES AND STRAINERS**

TYPE	SIZE	VOLTAGE	GAS VALVE SIZING		GAS VALVE DIMENSIONS					INSTALLATION	PART NUMBERS			
			MIN. INLET PRESSURE (0 IN.W.C.)	MAX. INLET PRESSURE (138 IN.W.C.)	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"		DIM "G"	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
ELECTRICAL	1"	120 VAC	5 PSI (0 IN.W.C.)	1,132,300 (138 IN.W.C.)	6-15/16"	5-15/16"	4-7/8"	5-3/16"	12-13/16"	10-11/16"	HORIZONTAL/VERTICAL	8214250	4417KA5	(SC)E0VA1

**ALL GAS VALVES/STRAINERS**  
 PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS. A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER. CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING. SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

**CALCULATIONS**  
 TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP:  
 NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP<sup>0.85</sup>  
 TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY:  
 NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)<sup>0.85</sup>



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6/7/2022

5504584

SLS

3/4" = 1'-0"

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sheet information

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date:	01/17/2022
project number:	MO-53LEE
project status:	ISSUED FOR CONSTRUCTION

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sheet title:  
**KITCHEN MECHANICAL EQUIPMENT**

sheet number:  
**ME508**

## ROOFTOP UNIT SCHEDULE

LABEL	SERVES	TONS	TOTAL CFM	EXT. S.P. (IN. WG.)	MINIMUM O.A. CFM	EER	NOMINAL COOLING CAPACITY (MBH)	HOT GAS REHEAT			MAX HEATING CAPACITY (MBH)		WEIGHT (LBS)	SUPPLY FAN HP	VOLTAGE	PHASE	Hz	# STAGES	MCA	MOCP	MANUFACTURER	MODEL	REMARKS
								DEHUMIDIFICATION/HOT GAS REHEAT CAPACITY	REHEAT TEMPERATURE RISE	MOISTURE REMOVAL RATE	INPUT	OUTPUT											
RTU-1	DINING AREA	10	4000	0.6	950	12.4	116.0	94 MBH	22° F	2.27 GPH	200.0	160.0	1950	2.75	208	3	60	2	53.4	70	Trane	YHC120F	1-14
RTU-2	KITCHEN & SERVING AREAS	10	3600	0.6	500	12.4	116.0	94 MBH	22° F	2.27 GPH	200.0	160.0	1950	2.75	208	3	60	2	53.4	70	Trane	YHC120F	1-13

1. PROVIDE ECOBEE3 THERMOSTAT WITH REMOTE TEMPERATURE SENSOR
2. 100% ECONOMIZER WITH DRY BULB CONTROL WITH LOW LEAK DAMPERS AND FAULT DETECTION DIAGNOSTICS.
3. 100% MODULATING POWERED EXHAUST
  - A. CONTRACTOR TO PROVIDE A DEDUCTIVE BID ALTERNATE FOR A STANDARD POWERED EXHAUST.
4. PROVIDE MODULATING SUPPLY FAN MOTOR AND TWO STAGE HEATING AND COOLING.
5. SMOKE DETECTORS IN THE RETURN DUCT OF ALL UNITS OVER 2000 CFM. UNIT TO SHUTDOWN UPON SENSING SMOKE. (COORDINATE WITH AHJ PRIOR TO INSTALLATION TO CONFIRM IF NEEDED IN SUPPLY OR RETURN) - MANUFACTURER DEFAULTS TO RETURN)
6. PROVIDE WITH 14" ROOF CURB WITH HOLD DOWN CLIPS.
7. PROVIDE WITH FACTORY MOUNTED CIRCUIT BREAKER SIZED IN ACCORDANCE WITH CURRENT NEC.
8. CONTRACTOR TO PROVIDE CONDENSATE DRAIN TRAP PER MANUFACTURER'S RECOMMENDATIONS.
9. PROVIDE CONDENSER COIL HAIL GUARD GRILLE.
10. ACCEPTABLE MANUFACTURERS: TRANE, YORK, LENNOX, CARRIER OR PRIOR APPROVED EQUAL.
11. PROVIDE WITH MERV 8 FILTERS.
12. PROVIDE FACTORY AUTHORIZED STARTUP OF EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING.
13. PROVIDE UNIT WITH MODULATING HOT GAS REHEAT FOR DEHUMIDIFICATION.
14. PROVIDE CO2 SENSOR TO ALLOW OUTSIDE AIR DAMPER TO SHUT WHEN READINGS INDICATE ROOM IS UNOCCUPIED.

## EXHAUST FAN SCHEDULE

LABEL	CFM	STATIC PRESSURE	FAN RPM	SOUND RATING	WEIGHT (LBS)	HP	WATTS	MCA	FLA	VOLTAGE	PHASE	Hz	MOCP	DISCONNECT		MANUFACTURER	MODEL	REMARKS
														FURN BY ELEC	FURN BY MECH			
EF-1	1863	1.050 in-wg	1378	13.3 SONES	150	1	-	-	6.9 A	208	1	60	-	NO	FACTORY INSTALLED	Captiveaire	DU85HFA	1-3.7
EF-2	1863	1.360 in-wg	1487	15 SONES	150	1	-	-	6.9 A	208	1	60	-	NO	FACTORY INSTALLED	Captiveaire	DU85HFA	1-3.7
EF-3	1444	0.950 in-wg	1363	13.3 SONES	150	1	-	-	6.9 A	208	1	60	-	NO	FACTORY INSTALLED	Captiveaire	DU85HFA	1-3.7
EF-4	170	0.250 in-wg	1550	4.6 SONES	35	.05	79 W	1	0.0 A	115	1	60	15	YES	NO	Loren Cook Company	70C15DH	4-7

1. SEE EXHAUST FAN REQUIREMENTS, OPTIONS, AND ACCESSORIES ON SHEETS ME506 AND ME507.
2. TYPE I HOOD EXHAUST FANS SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED.
3. NO MANUFACTURER SUBSTITUTIONS.
4. PROVIDE TIME CLOCK AND RUN CONTINUOUSLY DURING BUSINESS HOURS.
5. ACCEPTABLE MANUFACTURERS: COOK, GREENHECK, PENN BARRY OR PRIOR APPROVED EQUAL.
6. PROVIDE VARIABLE SPEED CONTROLLER FOR ALL DIRECT DRIVE FANS. TEST AND BALANCE CONTRACTOR SHALL MARK BALANCED POSITION ON CONTROLLER.
7. PROVIDE FACTORY AUTHORIZED STARTUP OF EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS.

EQUIPMENT FURNISHED/INSTALLED

REFERENCE "RESPONSIBILITY SCHEDULE" ON ARCHITECTURAL COVER SHEET (S001) FOR SCOPE OF WORK CLARIFICATIONS.

sheet information

revisions: description date

num. description date

4 REV04 06.07.22

4 REV04 06.07.22

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## MAKEUP AIR UNIT SCHEDULE

LABEL	UNIT TYPE	BLOWER	HOUSING	MIN CFM	DESIGN CFM	INPUT BTU	OUTPUT BTU	TEMP RISE	EXTERNAL S.P.	WEIGHT W/O CU'S (LBS)	CONDENSING UNIT WEIGHTS	CURB ASSEMBLY	SOUND RATING (SONES)	ENTERING DB TEMP	ENTERING WB TEMP	LEAVING DB TEMP	LEAVING WB TEMP	BURNER EFFICIENCY (%)	GAS TYPE	HP	BHP	FLA	MCA	VOLTAGE	PHASE	Hz	MOCP	DISCONNECT		STARTER		MANUFACTURER	MODEL	REMARKS
																												FURN BY ELEC	FURN BY MECH	FURN BY ELEC	FURN BY MECH			
MAU-1	GAS FIRED	20MF-2-MOD	A2-D.500	2900	4490	378000	348000	76° F	0.50 in-wg	1573	141 & 198 LBS	31"W X 79"L X 20"H INSULATED	20	94° F	76° F	78° F	70° F	92	NATURAL	5	3.37	15 A	18.8 A	208	3	60	30	NO	FACTORY INSTALLED	NO	FACTORY INSTALLED	Captiveaire	A2-D.500-20D-MPU	1,2

1. SEE MAU REQUIREMENTS, OPTIONS, AND ACCESSORIES ON SHEETS ME506 AND ME507.
2. \*\*\*THIS MAU HAS (2) REMOTE CONDENSERS ASSOCIATED WITH IT THAT HAVE SEPARATE ELECTRICAL CONNECTIONS. SEE SHEET ME506 FOR CONDENSER SCHEDULE.

### WALK-IN COOLER CONDENSER

LABEL	MANUFACTURER	MODEL	REMARKS
CU-1	BY OWNER	BY OWNER	COORDINATE EXACT SPECS AND ELECTRICAL REQUIREMENTS WITH OWNER

1. COORDINATE WALK-IN COOLER WITH OWNER AND ARCHITECT.

### WALK-IN COOLER FAN COIL

LABEL	MANUFACTURER	MODEL
FC-1	BY OWNER	BY OWNER

1. PROVIDE FAN COIL WITH CONDENSATE PUMP.



COMcheck Software Version 4.1.4.1

## Mechanical Compliance Certificate

### Project Information

Energy Code: 2018 IECC  
 Project Title: MoBettah's Lees Summit, MO  
 Location: Lees Summit, Missouri  
 Climate Zone: 4a  
 Project Type: New Construction

Construction Site: 520 NW Chipman Rd.  
 Owner/Agent: Lee's Summit, MO 64086  
 Designer/Contractor: MOBETTAHS (TI) for LEE'S SUMMIT

### Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

### Mechanical Systems List

#### Quantity System Type & Description

- 1 RTU-1 (Single Zone):  
 Heating: 1 each - Central Furnace, Gas, Capacity = 200 kBtu/h  
 Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE  
 Cooling: 1 each - Single Package DX Unit, Capacity = 116 kBtu/h, Air-Cooled Condenser, Air Economizer  
 Proposed Efficiency = 12.40 EER, Required Efficiency: 11.00 EER + 12.6 IEER  
 Fan System: 4000 -- Compliance (Motor nameplate HP method) : Passes  
 Fans:  
 4000 Supply, Constant Volume, 4000 CFM, 2.8 motor nameplate hp, 0.0 fan efficiency grade
- 1 RTU-2 (Single Zone):  
 Heating: 1 each - Central Furnace, Gas, Capacity = 200 kBtu/h  
 Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE  
 Cooling: 1 each - Single Package DX Unit, Capacity = 116 kBtu/h, Air-Cooled Condenser, Air Economizer  
 Proposed Efficiency = 12.40 EER, Required Efficiency: 11.00 EER + 12.6 IEER  
 Fan System: 3600 -- Compliance (Motor nameplate HP method) : Passes  
 Fans:  
 3600 Supply, Constant Volume, 3600 CFM, 2.8 motor nameplate hp, 0.0 fan efficiency grade
- 1 Water Heater:  
 Gas Instantaneous Water Heater, Capacity: 0 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump  
 No minimum efficiency requirement applies

### Mechanical Compliance Statement

*Compliance Statement:* The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.4.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Sean Johnson - P.E.

Name - Title

Signature

11.18.2021

Date

## REGISTER - GRILLE- DIFFUSER SCHEDULE

LABEL	TYPE	BLOW PATTERN	AIR FLOW (CFM)	FACE SIZE	NECK SIZE	NC	PRESSUR E DROP (in-wg)	THROW	MANUFACTURER	MODEL	REMARKS
EG-1	EXHAUST GRILLE - CEILING MOUNTED	N/A	300	10" X 10"	N/A	30	0.050	N/A	PRICE	80	1,2,3,4,5
R-1	RETURN GRILLE - LAY IN	N/A	< 400	12" X 12"	N/A	30	0.050	N/A	PRICE	535	1,2,3,4,5
R-2	RETURN GRILLE - LAY IN	N/A	< 2000	24" X 24"	N/A	30	0.100	N/A	PRICE	535	1,2,3,4,5
R-3	WALL MOUNTED RETURN GRILLE	N/A	2000	36" X 20"	N/A	30	0.100	N/A	PRICE	535	1,3,5
R-4	DUCT MOUNTED RETURN GRILLE	N/A	2000	36" X 12"	N/A	30	0.250	N/A	PRICE	SDGR	1,3,5
S-1	SUPPLY DIFFUSER - CEILING MOUNTED	4-WAY	< 195	12" X 12"	8"Ø	30	0.150	7-10-16	PRICE	SMD	1,2,3,4,5
S-2	SUPPLY DIFFUSER - LAY IN	4-WAY	490-675	24" X 24"	12"Ø	30	0.100	13-18-24	PRICE	SMD	1,2,3,4,5
S-3	SUPPLY DIFFUSER - LAY IN	STRAIGHT DOWN - NO DIRECTIONAL VANES	750	24" X 24"	14"Ø	30	0.100	STRAIGHT DOWN	PRICE	PDDR	1,2,3,4,5
S-4	DUCT MOUNTED SUPPLY DIFFUSER	ADJUSTABLE VANES	500	20" X 10"	N/A	30	0.050	12-18-33	PRICE	SDG	1,3,5,6

1. PROVIDE TRANSITION AS NECESSARY
2. PROVIDE LAY-IN MODULE AS NECESSARY
3. COLOR BY ARCHITECT
4. PROVIDE WITH WITH LAY-IN TO HARD LID ADAPTER AS NECESSARY.
5. ACCEPTABLE MANUFACTURERS: PRICE, KRUEGER, TITUS OR PRIOR APPROVED EQUAL.
6. PROVIDE WITH AIR-SCOOP FOR BALANCING.

MINIMUM OUTSIDE AIR CALCS PER IMC								O.A. PROVIDED
ROOM	SQ FT	TOTAL PEOPLE	OA CFM/PERSON	TOTAL OA CFM FOR PEOPLE	OA / SQ FT	OA FOR SQ FT	SUM OF PEOPLE AND SQ FT OA	
RESTAURANT DINING	1430	66	7.5	495	0.18	257	752	940
KITCHEN	1015	9	7.5	68	0.12	122	190	238
<b>TOTAL OA REQUIRED</b>							1178	1450

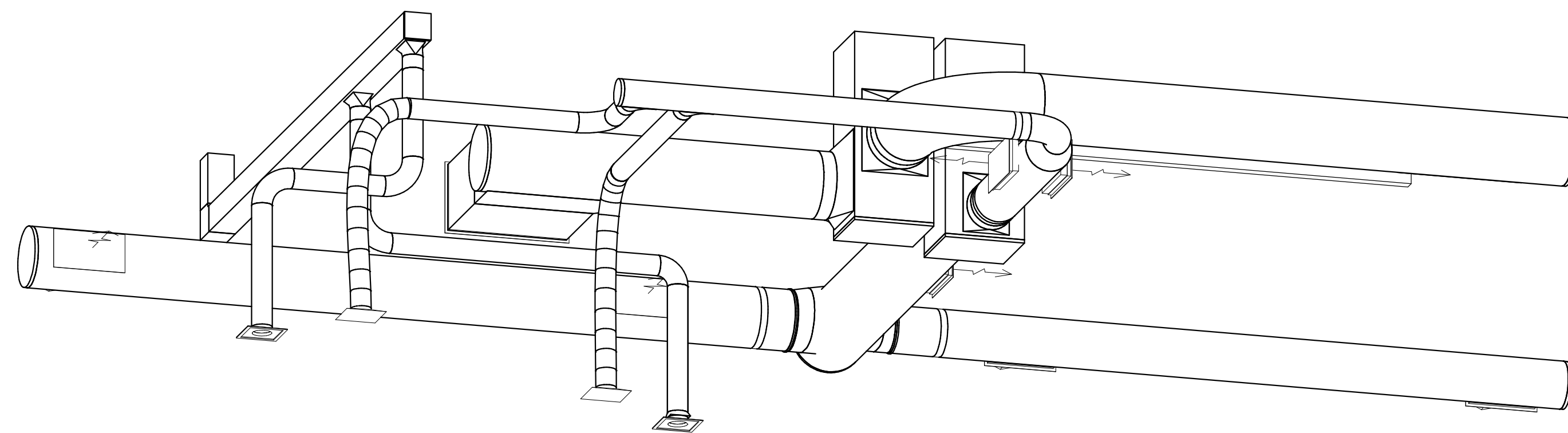
  

MINIMUM EXHAUST AIR CALCS PER IMC					EXHAUST PROVIDED
ROOM	SQ FT	EXHAUST CFM / SQ FT	EXHAUST / UNIT	UNITS	
RESTROOMS	120	-	50	2	100
KITCHEN	1015	0.7	-	-	711
<b>TOTAL EXHAUST REQUIRED</b>					811

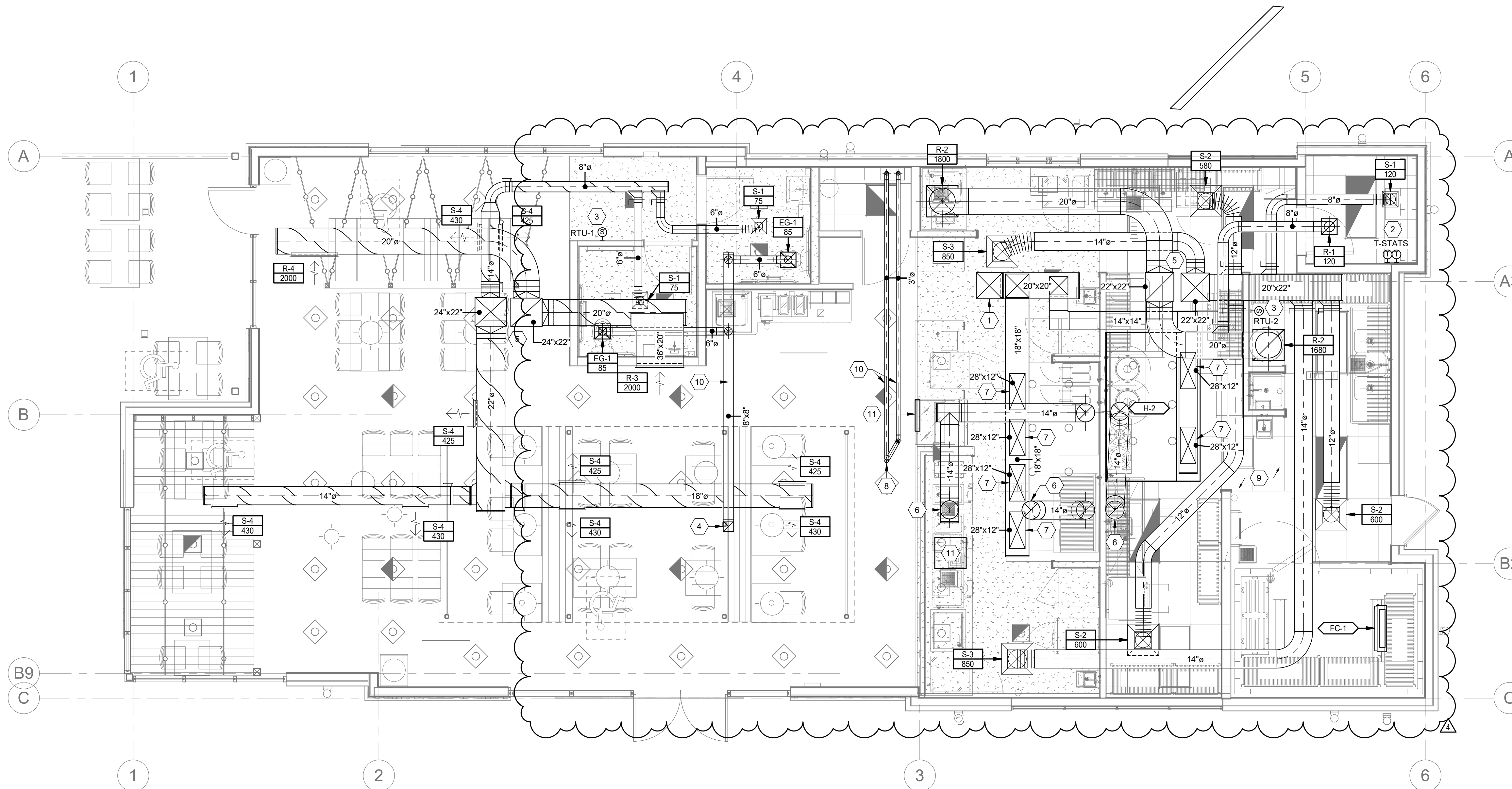
NEGATIVE BALANCE (EXHAUST - MAKEUP AIR)  
 1205 - 811 = 394 CFM

AIR BALANCE CALCS - BOH KITCHEN			
EQUIPMENT	SUPPLY CFM	OA CFM	EXHAUST AIR CFM
RTU-2	3		

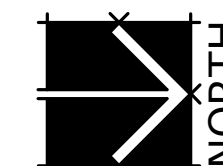




3 | DINING AREA DUCTING - 3D VIEW



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



## GENERAL SHEET NOTES

- ALL RETURN DUCTWORK TO BE ACCOUSTICALLY LINED.
- LOUVERED FACE RETURNS ONLY.
- PROVIDE BALANCING DAMPERS WITH LOCKING QUADRANT IN EACH BRANCH DUCT FOR BALANCING, INCLUDING SUPPLY, RETURN, AND EXHAUST.
- GO TO HIRE NEBB CERTIFIED THIRD PARTY TEST AND BALANCE (TAB) CONTRACTOR. TAB CONTRACTOR SHALL ADJUST SHEAVES, BELTS, DAMPERS, ETC AS NECESSARY TO BALANCE SYSTEM TO AIRFLOWS REQUIRED AT LOWEST POSSIBLE SPEEDS. TAB CONTRACTOR SHALL VERIFY THE OUTSIDE AIR AT EACH RTU IS AS SCHEDULED. FOLLOW PROCEDURES AS LAID FORTH IN THE CURRENT VERSION OF "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING AND BALANCING OF ENVIRONMENTAL SYSTEMS" BY NEBB. PROVIDE REPORT ON NEBB FORMS.
- PRIOR TO CONCEALMENT OF ANY PORTION OF THE GREASE DUCT PERFORM A LEAKAGE TEST AND A LIGHT TEST PER 2018 IMC 506.3.2.5. PRIOR TO CONCEALMENT AN INSPECTION OF THE GREASE DUCT WRAP IS REQUIRED WITH A BUILDING DEPARTMENT WITNESS PRESENT. PROVIDE GREASE DUCTS WITH CLEANOUTS NO MORE THAN 20 FT. APART AND NO MORE THAN 10 FT. FROM A CHANGE IN DIRECTION GREATER THAN 45° COORDINATE ALL AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
- PROVIDE CAPTURE & CONTAINMENT TESTS PRIOR TO FINAL INSPECTION AND GIVE RESULTS TO BUILDING DEPARTMENT.
- COORDINATE ALL AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
- DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
- ALL RTU'S, MAU'S, HOODS, EF'S AND DIFFUSERS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE BALANCE REPORT TO ENGINEER PRIOR TO PROJECT CLOSOUT.
- CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
- CONTRACTOR SHALL USE SMACNA DUCT CONSTRUCTION STANDARDS FOR SHEET METAL DUCTS. ALL DUCTWORK (UNLESS OTHERWISE NOTED ON FLOOR PLANS) SHALL BE CONSTRUCTED OF 1.5" W.C. SEAL CLASS "A".
- CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
- ALL TAKE-OFFS THROUGHOUT THE ENTIRE BUILDING SHALL BE HIGH EFFICIENCY TAKE-OFFS (HET'S). NO EXCEPTIONS TAKEN.
- ALL DUCTWORK IS TO BE INSTALLED INSIDE TRUSS BAYS. ALL DUCTWORK MUST BE INSTALLED NO LOWER THAN 12" FROM WHERE IT IS BEING SUPPORTED OR SEISMIC BRACING WILL BE REQUIRED. IF DUCTWORK IS INSTALLED BELOW 12" FROM WHERE IT IS SUPPORTED, IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO HAVE SEISMIC SUPPORTS ENGINEERED FOR THE JOB BY A LICENSED ENGINEER.
- ALL THERMOSTAT LOCATIONS ON THE PLANS SHALL BE COORDINATED WITH FURNITURE PLANS AND VERIFIED WITH OWNER PRIOR TO ROUGH IN. IF THERMOSTAT NEEDS TO BE INSTALLED IN A LOCATION OTHER THAN SHOWN ON THE PLANS, THIS CONTRACTOR SHALL MAKE ADJUSTMENTS AT NO ADDITIONAL COST.
- THIS CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH KITCHEN EQUIPMENT, ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
- DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- M.C. MUST PROVIDE AND INSTALL ALL ACCESS DOORS FOR VALVES, FLOW METERS, ETC. COORDINATE LOCATION WITH GENERAL CONTRACTOR. ACCESS PANELS SHALL NOT BE VISIBLE TO CUSTOMERS AND SHALL BE PAINTED TO MATCH THE WALL IN WHICH THEY ARE INSTALLED.
- WHERE THE JURISDICTION REQUIRES, CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEISMIC RESTRAINT AND SUPPORT ENGINEERED BY A LICENSED STRUCTURAL ENGINEER. PROVIDE DESIGN DRAWINGS TO AUTHORITY HAVING JURISDICTION AND MECHANICAL ENGINEER FOR REVIEW.
- ALL EXPOSED DUCTWORK TO BE SPIRAL ROUND OR FLAT OVAL WITH CLEAR SILICON DUCT SEALANT. DUCT TO BE FREE OF ANY COATINGS OR FILMS TO ALLOW FOR PAINTING.
- FLEXIBLE DUCT MAY BE USED AT FINAL TERMINATION OF DUCT TO DIFFUSER OR GRILLE WHERE CONCEALED ABOVE DROPPED CEILING. MAXIMUM FLEXIBLE DUCT LENGTH IS 5'-0". PROVIDE DUCT SUPPORTS EVERY 3 FEET.
- GRILLES AND DUCTWORK ARE SIZED INDEPENDENTLY. THE NECK SIZE OF GRILLES MAY NOT MATCH THE ASSOCIATED DUCT SIZE. PROVIDE TRANSITION TO GRILLES AS NECESSARY.
- PROVIDE REMOTE CABLE OPERATED DAMPERS FOR ALL DUCTWORK ABOVE HARD LID CEILINGS OR WHERE DAMPER IS INACCESSIBLE OR PROVIDE OPPOSED BLADE DAMPER WITH NYLON BUSHINGS AT GRILLE.
- DUCTWORK SHALL BE INSULATED AS FOLLOWS:
 

	LINED OR WRAPPED	R-VALUE
CONCEALED ROUND DUCTWORK:	WRAPPED	R-6
LOW PRESSURE RECTANGULAR DUCTWORK:	LINED	R-6
ROUND FLEXIBLE DUCT (MAX 6' LONG)	N/A	R-6
DUCTWORK INSTALLED OUTSIDE THE BUILDING	DOUBLE WALL	R-12

\*ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. NO DUCTBOARD ALLOWED.

## SHEET KEYNOTES

- DUCT UP THROUGH ROOF TO MAU. COORDINATE WITH TRUSSES AND ROOF PLAN.
- INSTALL THERMOSTATS IN MANAGER'S OFFICE. TEMPERATURE SENSOR TO BE INSTALLED IN AREA SERVED BY ASSOCIATED EQUIPMENT. LABEL EACH THERMOSTAT WITH AREA SERVED AND RTU NUMBER.
- PROVIDE TEMPERATURE SENSOR FOR RTU AT 7'-0" AFF. COORDINATE PLACEMENT WITH OWNER. ALL SENSORS IN CUSTOMER VIEW TO MATCH COLOR OF MOUNTING SURFACE - COORDINATE WITH ARCHITECT AND OWNER. CONTROLLING THERMOSTAT TO BE PLACED IN OFFICE.
- DUCT UP TO ROOFTOP EXHAUST FAN.
- SUPPLY AND RETURN DROPS FROM RTU ABOVE.
- GREASE EXHAUST DUCT UP THROUGH ROOF TO EXHAUST FAN. COORDINATE DUCT ROUTING WITH TRUSSES. WHEREVER DUCTING IS WITHIN 18" OF COMBUSTIBLE MATERIALS, WRAP PER DETAILS ON SHEET ME509 FOR ZERO INCH CLEARANCE TO COMBUSTIBLES.
- CONNECT MAKE UP AIR DUCT TO VOLUME DAMPER PROVIDED WITH HOOD. PROVIDE ALL FINAL CONNECTIONS. SEE HOOD DETAILS. ADJUST AND BALANCE EACH VOLUME DAMPER SO THAT MAKEUP AIR FOR EACH HOOD IS EVENLY DISTRIBUTED ACROSS SUPPLY PLENUM.
- 3" COMBUSTION AIR AND 3" VENT UP FROM WATER HEATER. COMBINE INTO CONCENTRIC VENT UP THROUGH ROOF. COORDINATE EXACT ROOFTOP PENETRATION LOCATION WITH ROOF PLAN.
- DIFFUSERS/GRILLES IN BACK OF HOUSE TO MATCH CEILING COLOR - COORDINATE WITH ARCHITECT AND OWNER.
- ROUTE DUCT UP HIGH IN BETWEEN TRUSSES.
- INSTALL ACCESS PANEL IN FOR GREASE DUCT CLEANOUT.

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sheet information

revisions:	description	date
4	REV04	06.07.22

date: 01/17/2022  
 project number: MO-53LEE

project status: ISSUED FOR CONSTRUCTION

original drawing is 34" x 36"  
 current as of: 6/9/2022 10:11:10 AM

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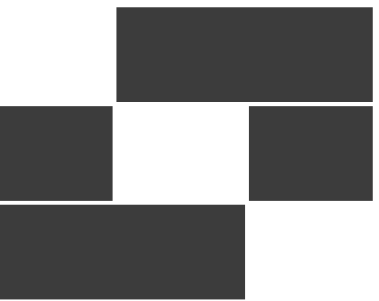
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sheet title:

sheet number:

**MH101**

MECHANICAL PLAN



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#### sheet information

num.	description	date
4	REV04	06.07.22

### GENERAL SHEET NOTES

1. MAINTAIN ALL EXHAUSTS AND VENTS A MINIMUM OF 10' FROM ANY FRESH AIR INTAKE.
2. ROOF TOP EQUIPMENT CONDENSATE PIPING SHALL BE ROUTED TO ROOF DRAINS AND TERMINATED WITH AN AIR GAP. SUPPORT PIPING PER SPECS.
3. ALL DUCTS PENETRATING THE ROOF SHALL BE ROUTED STRAIGHT UP FROM APPLIANCE SERVED (WHERE POSSIBLE).

### SHEET KEYNOTES

- 1 FRESH AIR INTAKE. MAINTAIN 10' CLEARANCE TO ALL EXHAUST OUTLETS.
- 2 WATER HEATER CONCENTRIC VENT THROUGH ROOF. TERMINATE AT LEAST 18" ABOVE ROOF PER MANUFACTURER REQUIREMENTS. MUST BE A MINIMUM OF 10' AWAY FROM ALL FRESH AIR INTAKES.
- 3 DUCT UP THROUGH ROOF TO MAU. COORDINATE WITH TRUSSES AND ROOF PLAN.
- 4 LOCATE GREASE EXHAUST FAN SO THAT DUCT DROP IS LOCATED BETWEEN TRUSSES. EXHAUST FAN DISCHARGE MUST BE SLIGHTLY HIGHER THAN TOP OF ANY ADJACENT STRUCTURE WITHIN 10 FEET, AND NOT LESS THAN 40" ABOVE THE ROOF SURFACE (IMC 506.5.6 AND IMC 506.3.13.1).

date: 01/17/2022

project number: MO-53LEE

project status: ISSUED FOR CONSTRUCTION

original drawing is 36" x 36"

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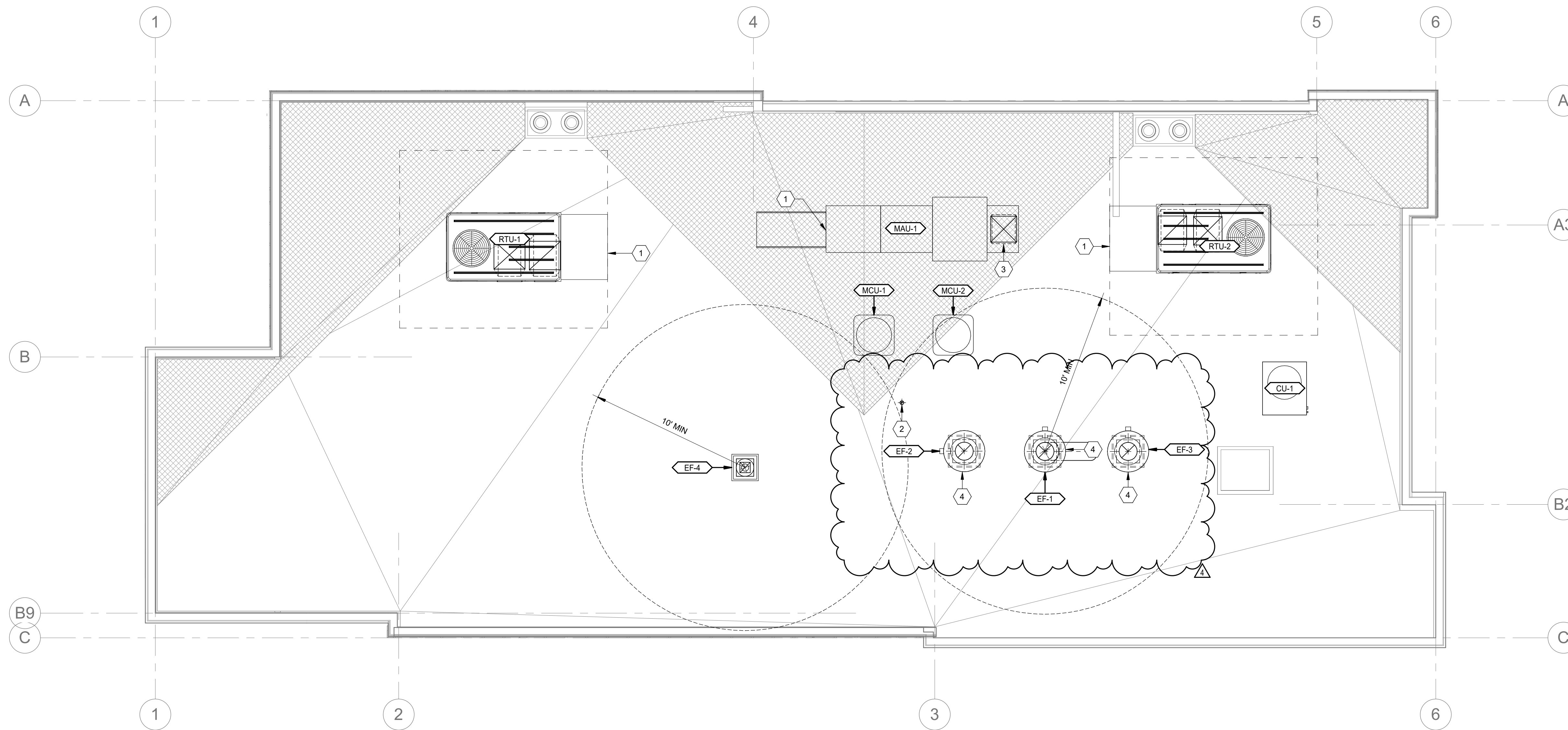
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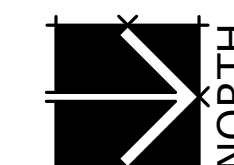
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sheet title:

sheet number: **MH102**



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



WATER HAMMER ARRESTER SCHEDULE				
SYMBOL	INLET SIZE (INCHES)	PDI SYMBOL	CAPACITY (DFU)	BASIS OF DESIGN MANUFACTURER & MODEL
WHA-A	3/4	A	1-11	J.R. SMITH 5005
WHA-B	1	B	12-32	J.R. SMITH 5010
WHA-C	1	C	33-60	J.R. SMITH 5020
WHA-D	1	D	61-113	J.R. SMITH 5030
WHA-E	1	E	114-154	J.R. SMITH 5040
WHA-F	1	F	155-330	J.R. SMITH 5050
ACCEPTABLE MANUFACTURERS		NOTES / REMARKS		
SIOUX CHIEF "HYDRA-ARRESTER" MIFAB "MWH" J.R. SMITH "SOXX" WATTS LFO2		(1) ANSI / ASSE 1010 LISTED (2) LEAD FREE CONSTRUCTION (3) COPPER TUBE BODY; POLY PISTON, EPDM O-RING (4) MIP THREADED INLET		

**NOTES:**

1. WATER HAMMER ARRESTER SHALL BE SIZED AND INSTALLED PER PLUMBING AND DRAINAGE INSTITUTE (STANDARD PDI-WH 201) REQUIREMENTS IN ACCESSIBLE LOCATIONS ON THE COLD WATER AND HOT WATER PIPING AND WHERE FLUSH VALVES AND ANY OTHER QUICK CLOSING VALVES ARE USED.

VALVE SCHEDULE			
SERVICE	VALVE TYPE	PIPE SIZE	DESCRIPTION
DOMESTIC WATER SERVICE	BALL VALVE	2" & SMALLER	COPPER ALLOY, 2-PIECE, STANDARD PORT, CHROME PLATED BALL, TFE SEAT, LEVER HANDLE, 400 PSIG WOG, MSS SP-110, SOLDERED OR THREADED END
	CHECK VALVE	2" & SMALLER	BRONZE BODY, SPRING TYPE, TFE SEAT, BRONZE DISC, SOLDERED OR THREADED ENDS, MSS SP-80
	UNION	2" & SMALLER	ASTM B16.39, CLASS 150, MALLEABLE IRON, HEXAGONAL STOCK BODY, BRONZE-TO-BRONZE SEAT
NATURAL GAS	BALL VALVE	2" & SMALLER	COPPER ALLOY, 2-PIECE, STANDARD PORT, CHROME PLATED BALL, TFE SEAT, LEVER HANDLE, 400 PSIG WOG, MSS SP-110, ASA APPROVED, ASME B26.33, THREADED END
	UNION	2" & SMALLER	ASTM B16.39, CLASS 150, MALLEABLE IRON, HEXAGONAL STOCK BODY, BRONZE-TO-BRONZE SEAT

GAS PRESSURE REGULATOR SCHEDULE						
SYMBOL	LOCATION	MANUFACTURER	MODEL NO.	REGULATOR SIZE (INCHES)	CAPACITY (CFH)	NOTES
GPR	INDOOR/OUTDOOR	PF REGULATOR	F30051	1/2	928	(1)(2)(3)(4)(5)
			F30052	3/4	1115	
			F30053	1	1501	
			F3013	1-1/4	7894	
ACCEPTABLE MANUFACTURERS		NOTES:				
PIETRO FIORENTINI MAXITROL		(1) 2.0 PSIG INLET PRESSURE . 850 BTU PER CF (2) 4.0Z (7" W.C.) OUTLET PRESSURE (3) DIE CAST ALUMINUM BODY, NITRILE DIAPHRAGM (4) NPT THREADED INLET & OUTLET (5) BALL CHECK AUTOMATIC VENT LIMITING DEVICE				

DOMESTIC WATER DEMAND						
EQUIPMENT	TYPE OF SUPPLY CONTROL	QUANTITY	COLD WATER SUPPLY FIXTURE UNITS PER FIXTURE (WSFU)	HOT WATER SUPPLY FIXTURE UNITS PER FIXTURE (WSFU)	TOTAL WATER SUPPLY FIXTURE UNITS PER FIXTURE (WSFU)	TOTAL WATER SUPPLY FIXTURE UNITS (WSFU)
LAVATORY	FAUCET	2	1.50	1.50	2.00	4.00
WATER CLOSET (1.28 GPF)	FLUSH TANK	2	2.20	0	2.20	4.40
KITCHEN SINK	FAUCET	2	3.00	3.00	4.00	8.00
SERVICE SINK	FAUCET	1	2.25	2.25	3.00	3.00
HAND WASHING SINK	FAUCET	3	1.50	1.50	2.00	6.00
BEVERAGE DISPENSER	1/2" VALVE	2	0.25	0	0.25	0.50
HOSE BIBB - HOT WATER	VALVE	3	0	2.50	2.50	7.50
HOSE BIBB - COLD WATER	VALVE	2	2.50	0	2.50	5.00
OTHER KITCHEN FAUCETS	FAUCET	2	0.00	1.50	2.00	4.00
			TOTAL COLD (WSFU)	TOTAL HOT (WSFU)		
			25.65	26.25		
TOTAL (WSFU):						42.4
2018 INTERNATIONAL PLUMBING CODE - TABLE E103.3(3) ESTIMATED PEAK DEMAND (GPM):						26.5
PIPE SIZE (COLD WATER SUPPLY TO BUILDING):						1-1/4"
2018 INTERNATIONAL PLUMBING CODE - FIGURE E103.3(4) PIPE FRICTION (PSI / 100 FT):						6.0
PIPE VELOCITY (FEET / SECOND):						7.0

TANKLESS WATER HEATER (GAS)															
LABEL	LOCATION	TYPE	FLOW RATE AT 45° F (GPM)	FLOW RATE AT 67° F (GPM)	FLOW RATE AT 90° F (GPM)	HIGH GAS INPUT(BTUH)	LOW GAS INPUT(BTUH)	DESIGN PRESSURE	VOLTS	PHASE	AMPS	FULL WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
WH-1	KITCHEN	TANKLESS, GAS-FIRED	8.7	5.6	4.4	19900.0	19900	100.00 psi	120	1	4	125	NAVIEN	NPE-240S	1,2,3,4
1. PROVIDE WITH CONCENTRIC VENT KIT. 2. ELECTRICAL OUTLET TO BE PROVIDED ON ELECTRICAL PLANS. 3. PROVIDE WITH EXPANSION TANK THERM-X-TROL ST-12. 4. ACCEPTABLE MANUFACTURERS: HTP, RINNAI OR APPROVED EQUAL.															

WATER SOFTENER SCHEDULE															
LABEL	MANUFACTURER & MODEL NUMBER	NOMINAL SYSTEM FLOW	MAXIMUM SYSTEM FLOW	BACKWASH/ RINSE FLOW	OPERATING TEMPERATURE RANGE	OPERATING PRESSURE RANGE	INLET / OUTLET PIPE CONNECTION	BRINE TANK SIZE	MEDIA TANK SIZE	MEDIA TANK CAPACITY	MEDIA VOLUME	MEDIA QUANTITY	SALT CAPACITY	OPERATING WEIGHT	REMARKS
WS-1	SENTRY II SERIES A952SM-60-2441	23 GPM	31 GPM	2.7 GPM	40°F-100°F	30-120 PSI	1" / 1"	24"X41"	12"X52"	60,000 GRAINS	2.0 CU. FT.	1	670 LBS	1110 LBS	PROVIDED AND INSTALLED BY CONTRACTOR
1. REQUIRES 120V OUTLET WITHIN 12'															

WATER FILTER SCHEDULE							
LABEL	EQUIPMENT TYPE	INCOMING WATER LINE SIZE	INCOMING WATER TEMPERATURE	APPROXIMATE MAXIMUM GPM	MODEL	REMARKS	
WF-1	WATER FILTER	3/4"	40°F - 70°F	ECOLAB	SPLIT TWIN HEAD - FILTERS SELECTED BY OWNER	PROVIDED BY OWNER, INSTALLED BY CONTRACTOR	

RECIRCULATION PUMP SCHEDULE											
LABEL	MANUFACTURER & MODEL NUMBER	PUMP TYPE	SYSTEM SERVED	LIQUID TYPE	GPM	FT. HD.	TEMP RANGE (F)	V/PH/Hz	WATTS	AMPS	ACCESSORIES & REMARKS
RCP-1	BELL & GOSSETT ECOCIRC 19-16	CIRCULATOR, INLINE	SOFTENED DHW	WATER	1	3	36-203	115/1/60	60	.5	6 FT. LINE CORD WITH PLUG, OUTLET PROVIDED ON ELECTRICAL PLANS.
1. RUN IN CONSTANT PRESSURE MODE IN CONJUNCTION WITH CALEFFI MODEL 116 THERMAL BALANCING VALVES TO ALLOW PUMP TO RUN AT LOWER SPEED WHEN HOT WATER IS RUNNING.											

PLUMBING FIXTURE SCHEDULE									
LABEL	DESCRIPTION	WASTE	VENT	CW	HW	MANUFACTURER	MODEL	REMARKS	
DS-1	PRIMARY RAINWATER DOWNSPOUT	4"	0"	0"	0"	ZURN	Z199	SIZE TO MATCH RAINWATER PIPE SIZE.	
DS-2	SECONDARY RAINWATER DOWNSPOUT	4"	0"	0"	0"	ZURN	Z199	SIZE TO MATCH RAINWATER PIPE SIZE.	
FD-1	FLOOR DRAIN	2"	1 1/4"	0"	0"	ZURN	FD-2322	PROVIDE TRAP GUARD, PRO-SET OR APPROVED EQUAL. FLOOR DRAIN SIZE TO MATCH PIPE SIZE SHOWN ON PLANS.	
FS-1	FLOOR SINK	3"	1 1/2"	0"	0"	JAY R. SMITH	3150Y	PROVIDE DOME STRAINER AND HALF GRATE COVER ON ALL FLOOR SINKS. PROVIDE TRAP GUARD, PRO-SET OR APPROVED EQUAL.	
HB-1	HOSE BIB - INTERIOR	0"	0"	0"	1/2"	JAY R. SMITH	5670-H	PROVIDE WITH VACUUM BREAKER	
HB-2	HOSE BIB - EXTERIOR	0"	0"	3/4"	0"	JAY R. SMITH	5509QT	RECESSED BOX TYPE, NON-FREEZE, INTEGRAL VACUUM BREAKER, "T" HANDLE KEY	
LAV-1	LAVATORY - WALL MOUNTED - ADA	2"	1 1/4"	1/2"	1/2"	KOHLER & CHICAGO FAUCETS	K-2032 & 420-E2805ABCP	MOUNT AT ADA HEIGHT. PROVIDE ADA FAUCET. OWNER PROVIDED.	
PRD-1	PRIMARY ROOF DRAIN	4"	0"	0"	0"	ZURN	Z100		
SRD-1	SECONDARY ROOF DRAIN	4"	0"	0"	0"	ZURN	Z100	PROVIDE WITH 2" DAM.	
TD-1	TRENCH DRAIN - SLOPED	3"	1 1/2"	0"	0"	WATTS	DEAD LEVEL	PROVIDE STAINLESS STEEL GRATES. PROVIDE TRAP GUARD, PRO-SET OR APPROVED EQUAL.	
WC-1	WATER CLOSET - TANK TYPE - ADA	4"	2"	3/4"	0"	KOHLER	K-3999-U HIGHLINE	PROVIDE WITH ELONGATED "NO SLAM" TOILET SEAT	

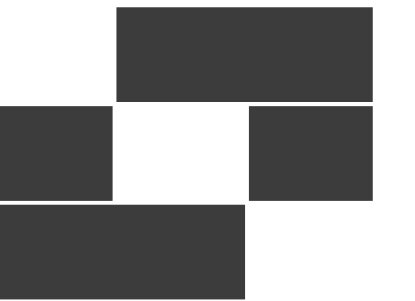
**MINIMUM PIPE INSULATION THICKNESS FOR WATER AND REFRIGERANT SYSTEMS**

FIELD OPERATING TEMP RANGE (F)	INSULATION CONDUCTIVITY		INSULATION THICKNESS (INCHES) BASED ON NOMINAL PIPE SIZE				
	CONDUCTIVITY BTU*IN/(H*T^2*F)	MEAN RAITING TEMPERATURE, F	LESS THAN 1" DIA.	1"-1 1/2" DIA.	1 1/2"-4" DIA	4"-8" DIA.	8" DIA. AND ABOVE
>350	0.32-0.34	250	4.5	5.0	5.0	5.0	5.0
251-350	0.29-0.32	200	3.0	4.0	4.5	4.5	4.5
201-250	0.27-0.30	150	2.5	2.5	2.5	3.0	3.0
141-200	0.25-0.29	125	1.5	1.5	2.0	2.0	2.0
105-140	0.22-0.28	100	1.0	1.0	1.5	1.5	1.5
40-60	0.27-0.30	75	0.5	0.5	1.0	1.0	1.0
<40	0.20-0.26	50	0.5	1.0	1.0	1.0	1.5

NATURAL GAS REQUIREMENTS					
EQUIPMENT	QUANTITY	SEA LEVEL FUEL GAS INPUT CAPACITY (BTUH)	JOB SITE FUEL GAS REQUIREMENTS (CFH)	TOTAL FUEL GAS CAPACITY (CFH)	BRANCH PIPE SIZES - EACH PIECE OF EQUIP. (INCHES)
					2 PSIG @ 150 FT.   4 OZ @ 10 FT.
WATER HEATER (WH-1)	1	199,000	209	209	1/2"   3/4"
MAKEUP AIR UNIT (MAU-1)	1	378,000	398	398	1/2"   1"
RICE COOKER	2	36,000	36	72	1/2"   1/2"
RADIANT CHARBROILER	1	195,000	205	205	1/2"   3/4"
GAS RANGE	1	180,000	189	189	1/2"   3/4"
FRYER	2	105,000	111	222	1/2"   1/2"
RTU-1	1	200,000	211	211	1/2"   3/4"
RTU-2	1	200,000	211	211	1/2"   3/4"
TOTAL		1,632,000	211	1,718	1 1/4"   ----
BASIS OF DESIGN		NOTES:			
2018 INTERNATIONAL FUEL GAS CODE		(1) PROVIDE GAS SHUT-OFF VALVE AND PRESSURE REGULATOR AT EACH PIECE OF EQUIPMENT. INSTALL IN AN ACCESSIBLE LOCATION ROUGHLY 10 FT FROM EQUIPMENT.			
HEAT CONTENT OF GAS (BTUH/CU. FT):		950.0			
GAS PRESSURE AT METER (LB):		2.0			
DISTANCE FROM GAS METER TO MOST REMOTE GAS REG. (FEET):		150.0			
DISTANCE FROM GAS PRES. REG. TO APPLIANCE (FEET):		10.0			

SANITARY SEWER DEMAND				
EQUIPMENT	MINIMUM TRAP AND TRAP ARM	QUANTITY	INDIVIDUAL DRAINAGE FIXTURE UNIT	TOTAL DRAINAGE FIXTURE UNITS
WATER CLOSET, FLUSH TANK (PUBLIC 1.6 GPF)	4"	2	4.0	8.00
LAVATORY	1-1/4"	2	1.0	2.00
FLOOR DRAIN	2"	2	2.0	4.00
FLOOR SINK	3"	4	2.0	8.00
HAND WASHING SINK	1-1/2"	3	2.0	6.00
GREASE WASTE	4"	1	28.0	28.00
TOTAL (DFU):				56.00
BASIS FOR DESIGN:				
2018 INTERNATIONAL PLUMBING CODE CHAPTER 7, TABLE 710.1(2) - PIPE SIZE:				4"

GREASE WASTE DEMAND				
EQUIPMENT	MINIMUM TRAP AND TRAP ARM	QUANTITY	INDIVIDUAL DRAINAGE FIXTURE UNIT	TOTAL DRAINAGE FIXTURE UNITS
FLOOR DRAIN	2"	5	2.0	10.00
FLOOR SINK	3"	4	4.0	16.00
SERVICE SINK	1-1/2"	1	2.0	2.00
TOTAL (DFU):				28.00



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sheet information

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1	IFP_ADD-01	03.11.22
4	REV04	06.07.22

date: 01/17/2022

project number: MO-53LEE

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original drawing is 34" x 36"

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MOBETTAHS (TI) for LEE'S SUMMIT

520 NW Chipman Rd  
Lee's Summit, MO 64086



sheet title:

sheet number:

**PE601**

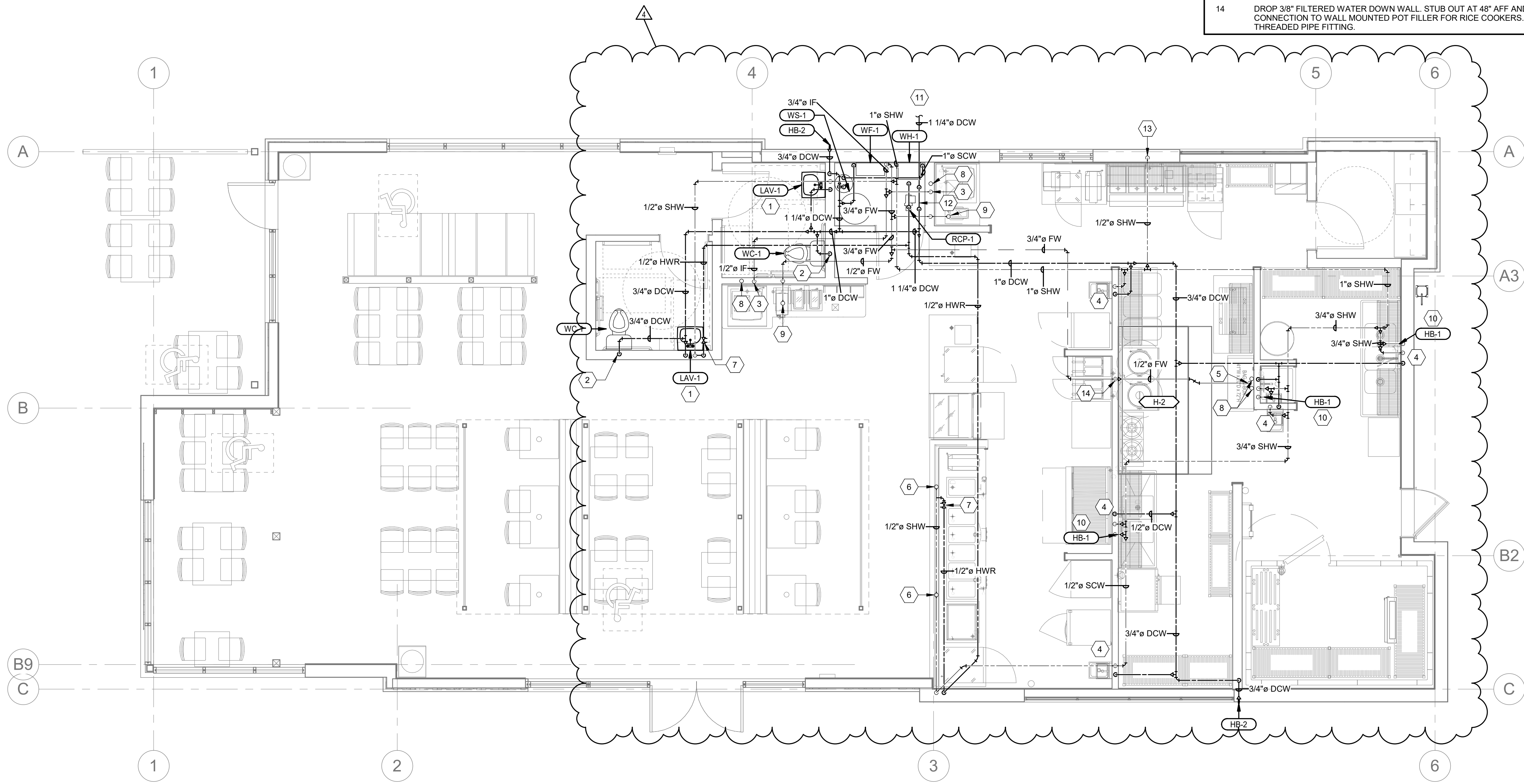
PLUMBING SCHEDULES

## SHEET KEYNOTES

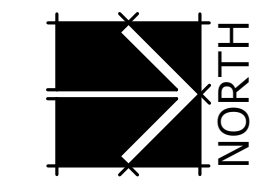
- 1 DROP 1/2" DCW / SHW DOWN WALL. STUB OUT AT 24" AFF. PROVIDE THERMOSTATIC MIXING VALVE AND HW / CW CONNECTIONS TO SINK. FOR FINAL CONNECTIONS, USE DROP EAR AND COPPER SWEEP STUB OUT AT WALL WITH BRAIDED HOSES TO LAVATORY. DO NOT USE PEX STUB OUTS.
- 2 DROP 3/4" DCW DOWN WALL TO WATER CLOSET. FOR FINAL CONNECTIONS, USE DROP EAR AND COPPER SWEEP STUB OUT AT WALL WITH BRAIDED HOSE TO WATER CLOSET. DO NOT USE PEX STUB OUTS.
- 3 DROP 1/2" FILTERED WATER LINE TO ICE MACHINE. PROVIDE ISOLATION VALVE, DOUBLE CHECK VALVE OR RPZ BACKFLOW PREVENTER IF REQUIRED BY JURISDICTION, AND PRV (20-80 PSI) INSIDE CABINET BELOW COUNTER. SEE DETAIL ON SHEET PE502 FOR ICE MACHINE CONNECTION DETAIL.
- 4 DROP 1/2" DCW / SHW DOWN WALL. STUB OUT AT 24" AFF. PROVIDE HW / CW CONNECTIONS TO SINK FAUCET.
- 5 3/4" FILTERED COLD WATER TO CARBONATOR(S). INSTALL RPZ BACKFLOW PREVENTER. TERMINATE PIPING WITH (2) 3/8" COMPRESSION FITTINGS. CONNECTION TO BE MADE AT 8'-0" AFF BY COKE VENDOR. COKE VENDOR TO RUN LINE FROM CARBONATOR TO COKE MACHINES (BOTH CARBONATED AND NONCARBONATED).
- 6 1/2" SHW STUBOUT FOR CONNECTION TO AUTO FILL ACCESSORY FOR POT WELL. INSTALL PER CODE AND PER MANUFACTURER INSTALLATION INSTRUCTIONS. INSTALL DOUBLE CHECK VALVE ON WATER LINE PRIOR TO CONNECTION TO EQUIPMENT.
- 7 PROVIDE CALEFFI 116 THERMOSETTER WHERE HOT WATER RECIRCULATING PIPING CONNECTS TO HOT WATER PIPING. ESTIMATED FLOW OF 0.35 GPM.
- 8 PROVIDE 4" CHASE WITH LONG SWEEPING ELBOWS UNDERGROUND FOR SYRUP LINES.
- 9 FILTERED COLD WATER STUB OUT UNDER COUNTER FOR BEVERAGE MACHINE. INSTALL DOUBLE CHECK VALVE ON WATER LINE PRIOR TO FINAL EQUIPMENT CONNECTIONS.
- 10 HOSE BIB TO ECOLAB CHEMICAL STATION AT 18" AFF (CONNECT TO SHW). PROVIDE WITH MIFAB MI-CAG CAST IRON FIXED AIR GAP TO COMPLY WITH ASME A112.1.2. A VERTICAL AIR GAP TWICE THE OUTLET CONNECTION SIZE IS REQUIRED.
- 11 MAIN WATER LINE TO BUILDING CONTINUED UNDERGROUND FROM CIVIL PLANS.
- 12 PROVIDE PRV STATION PER DETAIL.
- 13 1/2" SHW TO WALL MOUNTED PANTRY FAUCET.
- 14 DROP 3/8" FILTERED WATER DOWN WALL. STUB OUT AT 48" AFF AND PROVIDE CONNECTION TO WALL MOUNTED POT FILLER FOR RICE COOKERS. PROVIDE THREADED PIPE FITTING.

## GENERAL SHEET NOTES

1. PC SHALL COORDINATE FIXTURE CONNECTION ELEVATIONS WITH KITCHEN EQUIPMENT CONTRACTOR'S PLANS.
2. WATER LINES FOR DRINK DISPENSING SHALL HAVE BACKFLOW PROTECTION THAT MEETS THE ASSE 1022 STANDARD.
3. ALL TUBING / PIPING FOR DRINK DISPENSING EQUIPMENT SHALL BE NSF STAMPED.
4. PROVIDE HOT / COLD WATER CHECK VALVES FOR ALL MOP SINKS, 3-COMPARTMENT SINKS, PREP SINKS, AND ANY SINK WITH AN OVERHEAD SPRAYER.
5. ANY PIPING WHICH PENETRATES A COUNTER TOP SHALL BE ROUTED THROUGH A STAINLESS STEEL GROMMET WHICH IS TO BE ADHERED TO THE COUNTER TOP WITH A CLEAR, NON-SHRINKING, MILDEW RESISTANT SILICONE.
6. MAIN PIPE ROUTING SHALL BE ABOVE CEILING. WHERE DROPS OCCUR, PIPES SHALL BE CONCEALED INSIDE WALLS.
7. ALL DOMESTIC HOT / COLD PIPING SHALL BE UPONOR AQUAPEX OR EQUAL AND COLOR CODED ACCORDING TO THE FOLLOWING:  
 \*RED - SOFT HOT WATER (SHW)  
 \*BLUE - SOFT COLD WATER (SCW)  
 \*WHITE - FILTERED COLD WATER (FW)  
 \*WHITE - INHIBITOR FILTERED WATER (IF)
8. PROVIDE WATER HAMMER ARRESTORS AT ALL FIXTURES WITH QUICK ACTING WATER SHUT OFF INCLUDING, ICE MAKERS, DISHWASHERS, METER FAUCETS, ETC.
9. RUN ALL WATER AND FIRE PROTECTION PIPING ABOVE CEILING INSIDE TRUSS WEBBING.
10. WHERE MULTIPLE FIXTURE IN CLOSE PROXIMITY ARE SERVED BY THE SAME WATER LINE, PROVIDE MANIFOLD SECURELY FASTENED TO WALL WITH ISOLATION VALVES.
11. ALL WATER SUPPLY STUBOUTS OCCURRING INSIDE CABINETS TO BE 24" AFF.
12. INSPECTION AND PERMIT BY STATE OR COUNTY HEALTH DEPARTMENT IS REQUIRED FOR CHEMICAL DISPENSER STATIONS AT MOP SINK AND 3-COMP SINK.
13. ALL ACCESS COVERS IN RESTROOMS TO BE LOCATED BENEATH SINKS OR ADJACENT TO TOILETS, HIDDEN FROM VIEW WHERE POSSIBLE. PAINTED BLACK. ANY ACCESS COVERS OUTSIDE OF THESE REQUIREMENTS SHALL BE STAINLESS STEEL.
14. DISSIMILAR METAL PIPING CONNECTIONS SHALL HAVE DIELECTRIC ISOLATORS.
15. BALL VALVES SHALL BE FULL PORT AND LEAD FREE. PROVIDE WITH HANDLE/STEM EXTENSIONS FOR PROPER FUNCTION WHEN FULLY INSULATED. EXTENSIONS TO BE SEALED AND VAPOR PROOF.
16. ALL DOMESTIC WATER PIPING TO BE LOCATED ON WARM SIDE OF BUILDING ENVELOPE.
17. PROVIDE BALANCE REPORT OF DOMESTIC WATER RECIRCULATING SYSTEM TO ENGINEER. PROVIDE P&T PORTS AND PRESSURE GAUGES ON EACH SIDE OF RECIRCULATING PUMP. PROVIDE THERMOMETER ON DISCHARGE SIDE OF PUMP.
18. COORDINATE NECESSARY SAW CUTTING, BACKFILL, AND NEW CONCRETE WITH GENERAL CONTRACTOR.
19. PROVIDE A SAND BED WITH SIX (6") INCHES MINIMUM COVERAGE AROUND ALL BELOW GRADE PIPES. PROVIDE BACKFILL FREE OF BOULDERS LARGER THAN TWO (2") INCHES. COMPACT AND TEST ALL BACKFILL ACCORDING TO ASTM COMPACTION STANDARDS OR PROVIDE PEA GRAVEL BACKFILL. PROVIDE MINIMUM TRENCH WIDTH OF NOT LESS THAN 1.5 TIMES THE PIPE OUTSIDE DIAMETER, PLUS 12 INCHES.
20. ALL PIPING THROUGH A FOUNDATION WALL OR UNDER A FOOTING TO BE PROVIDED WITH PIPE SLEEVE 2 PIPE SIZES LARGER THAN PIPE PASSING THROUGH WALL OR UNDER FOOTING. SEAL WITH CAULK OR FOAM. PIPE SLEEVE UNDER FOOTING TO BE A MINIMUM OF 2" BELOW FOOTING. PIPE TO BE IRON AND EXTEND BEYOND THE WIDTH OF THE FOOTING AT A 45 DEGREE ON BOTH SIDES OF FOOTING.
21. PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING WITHIN 12" FROM SUPPORTING STRUCTURE.
22. CONTRACTOR SHALL FIELD VERIFY ALL PLUMBING ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
23. DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
24. THIS CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH KITCHEN EQUIPMENT, ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
25. INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25 INCH THICKNESS AT 75°F.
26. P.C. MUST PROVIDE AND INSTALL ALL ACCESS DOORS FOR VALVES, FLOW METERS, ETC. COORDINATE LOCATION WITH GENERAL CONTRACTOR. ACCESS PANELS SHALL NOT BE VISIBLE TO CUSTOMERS AND SHALL BE PAINTED TO MATCH THE WALL IN WHICH THEY ARE INSTALLED.
27. ALL PIPING EXPOSED TO THE OUTDOORS IS TO BE INSULATED AND WEATHERPROOFED.
28. WHERE THE JURISDICTION REQUIRES, CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEISMIC RESTRAINT AND SUPPORT ENGINEERED BY A LICENSED STRUCTURAL ENGINEER. PROVIDE DESIGN DRAWINGS TO AUTHORITY HAVING JURISDICTION AND MECHANICAL ENGINEER FOR REVIEW.
29. ALL DOMESTIC WATER PIPING TO BE PRESSURE TESTED, CLEANED, AND DISINFECTED. PRESSURE TEST: CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 120 PSIG FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED. PROVIDE RESULTS IN WRITTEN REPORT TO ENGINEER UPON COMPLETION. CLEAN AND DISINFECT: FLUSH PIPING SYSTEM, FILL SYSTEM WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE FOR 24 HOURS. THOROUGHLY FLUSH SYSTEM. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. PROVIDE REPORT TO ENGINEER STATING PROCEDURE FOLLOWED AND SIGNATURES OF GC AND THAT OF PERSONS PERFORMING PROCEDURE.
30. PIPING SHALL BE INSULATED AS FOLLOWS:  
 A. DOMESTIC HOT WATER PIPING: 1" THICK FOR ALL PIPE SIZES.  
 B. DOMESTIC COLD WATER PIPING: 1/2" THICK FOR ALL PIPE SIZES (PROVIDE CONTINUOUS VAPOR BARRIER.)



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



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sheet information

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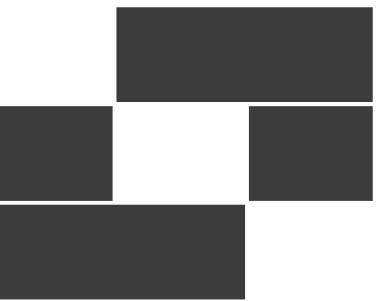
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sheet title:  
**PLUMBING PLAN - WATER**

sheet number:  
**PL101**



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date: 01/17/2022

project number: MO-53LEE

project status: ISSUED FOR CONSTRUCTION

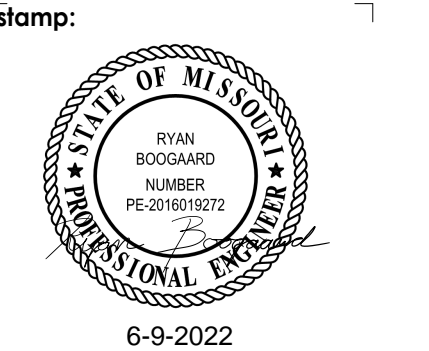
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sheet title:

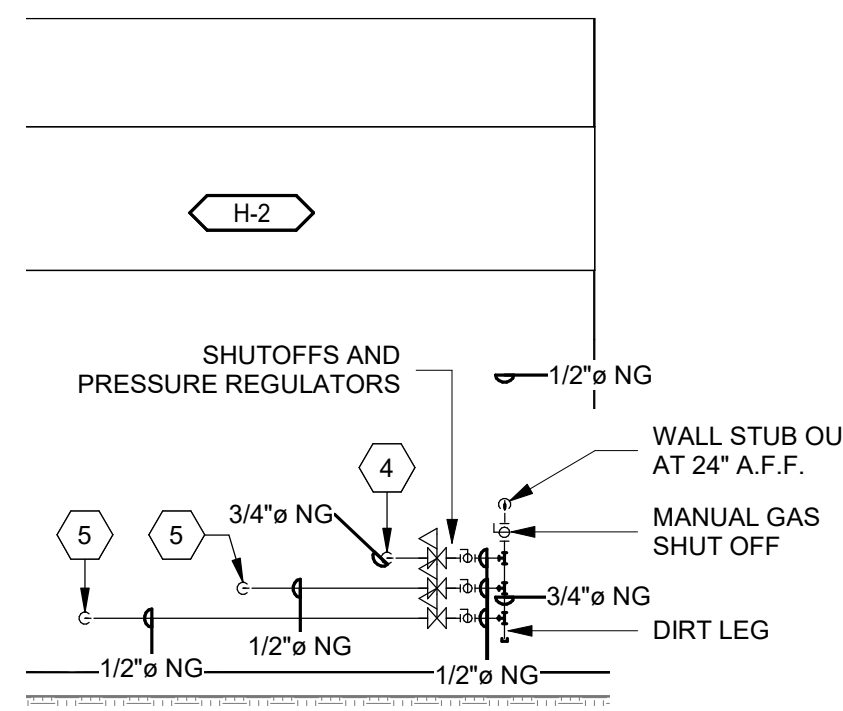
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**PLUMBING PLAN - GAS**

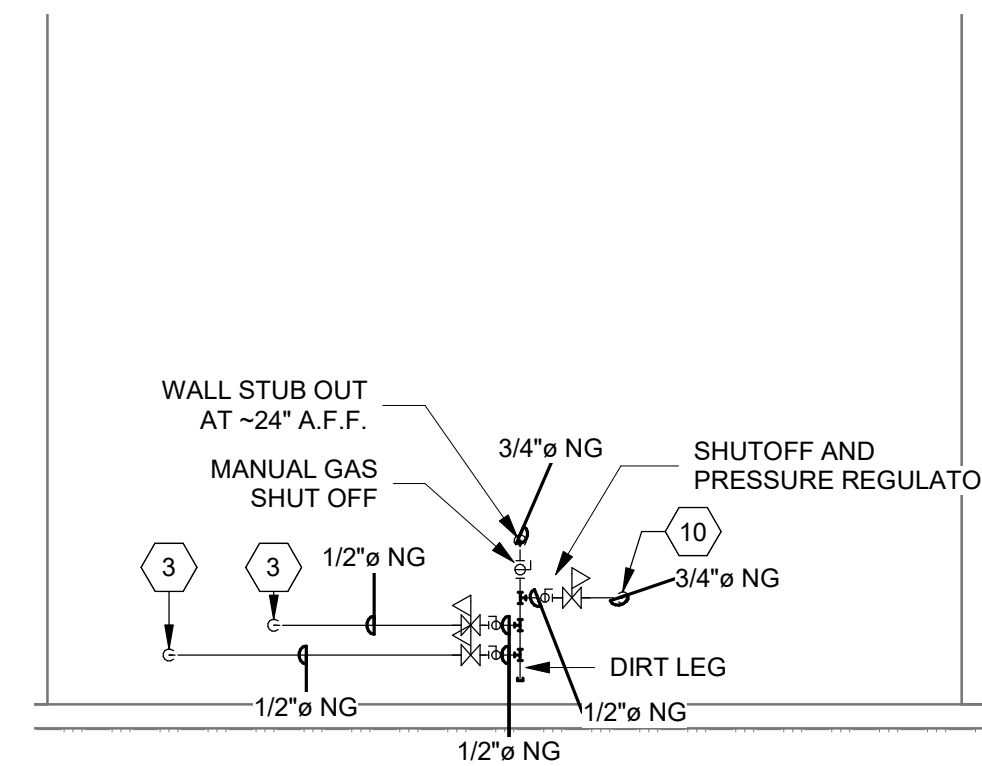
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### GENERAL SHEET NOTES

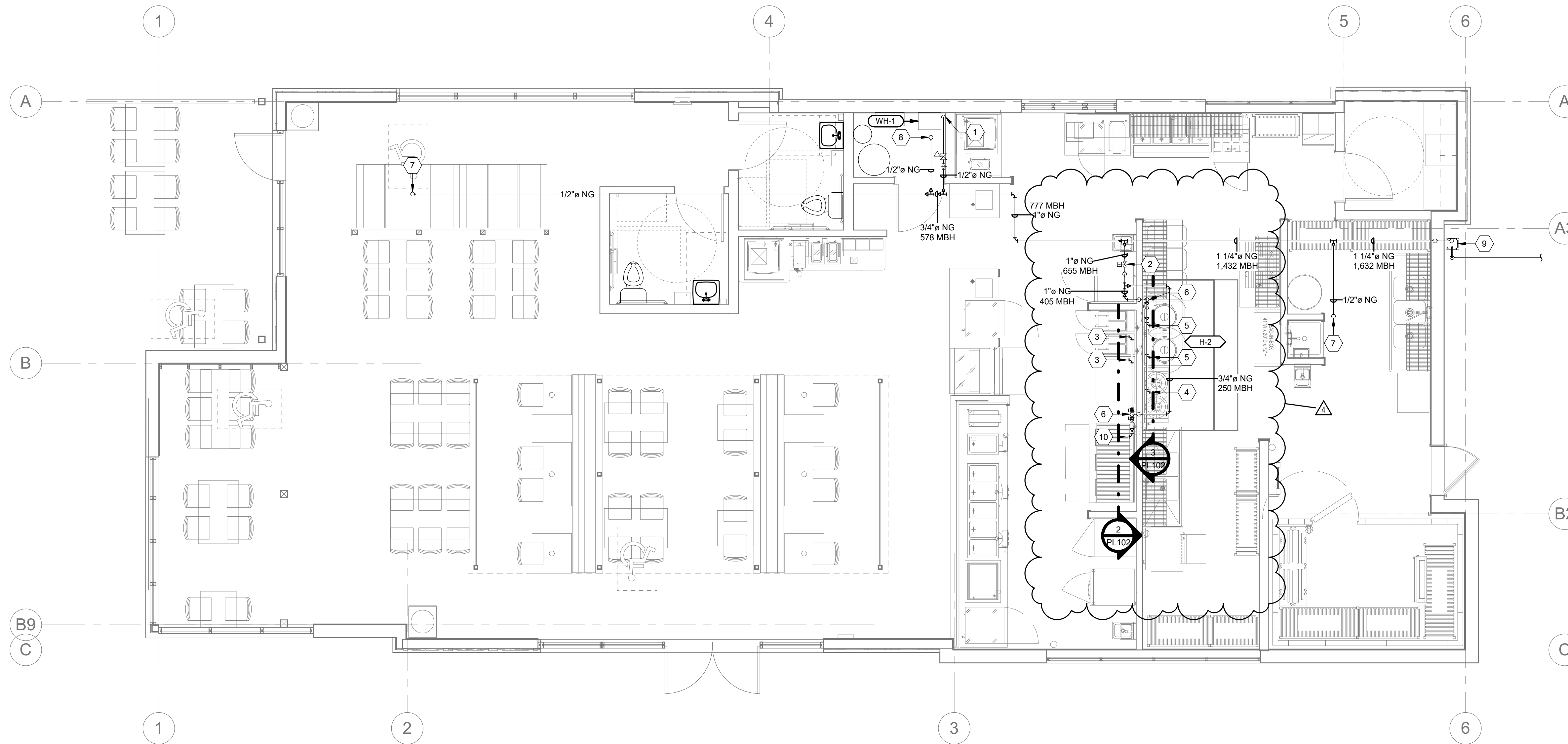
- ALL GAS REGULATORS TO BE 2LB TO 4 OZ TYPE WITH ADJUSTMENT FROM 5" - 12" WATER COLUMN. INSTALL APPROXIMATELY 10' UPSTREAM OF EQUIPMENT CONNECTION.
- RUN ALL GAS PIPING ABOVE CEILING INSIDE TRUSS WEBBING.
- ALL NATURAL GAS PIPING 2-1/2" AND OVER OR 5 PSI OR GREATER TO BE WELDED.
- GAS PIPING SCHEDULE
  - NATURAL GAS PIPING 2" AND SMALLER = SCHEDULE 40 STEEL PIPE - THREADED
  - NATURAL GAS PIPING 2-1/2" AND LARGER = SCHEDULE 40 STEEL PIPE - WELDED
  - NATURAL GAS PIPING BELOW GRADE = POLYETHYLENE PIPE - FUSION WELDED
- PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING WITHIN 12" FROM SUPPORTING STRUCTURE.
- CONTRACTOR SHALL FIELD VERIFY ALL PLUMBING ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
- DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- THIS CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH KITCHEN EQUIPMENT, ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
- INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25 INCH THICKNESS AT 75°F.
- P.C. MUST PROVIDE AND INSTALL ALL ACCESS DOORS FOR VALVES, FLOW METERS, ETC. COORDINATE LOCATION WITH GENERAL CONTRACTOR. ACCESS PANELS SHALL NOT BE VISIBLE TO CUSTOMERS AND SHALL BE PAINTED TO MATCH THE WALL IN WHICH THEY ARE INSTALLED.
- ALL GAS PRESSURE REGULATORS ARE TO BE VENTED TO THE OUTSIDE OF THE BUILDING BY THE MECHANICAL CONTRACTOR OR PROVIDE/INSTALL VENTLESS REGULATORS IF ALLOWED BY THE LOCAL JURISDICTION. NONE OF THE VENT PIPING OFF THE REGULATORS ARE SHOWN ON THE PLANS. IF VENTED REGULATORS ARE REQUIRED, SIZE VENTS PER MANUFACTURER'S RECOMMENDATION FOR THE GIVEN DISTANCE.
- WHERE THE JURISDICTION REQUIRES, CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEISMIC RESTRAINT AND SUPPORT ENGINEERED BY A LICENSED STRUCTURAL ENGINEER. PROVIDE DESIGN DRAWINGS TO AUTHORITY HAVING JURISDICTION AND MECHANICAL ENGINEER FOR REVIEW.



**3** HOOD "H-2" GAS PIPING TO EQUIPMENT  
3/8" = 1'-0"

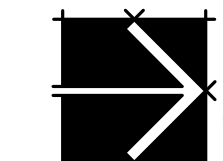


**2** HOOD "H-1" GAS PIPING TO EQUIPMENT  
3/8" = 1'-0"

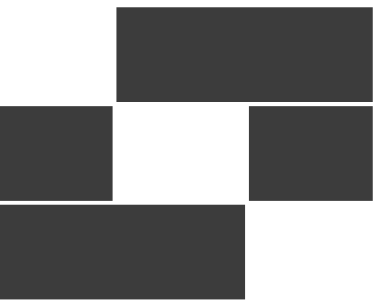


ALL GAS STUB OUTS TO EQUIPMENT UNDER HOODS TO BE AT 18" AFF.

**1** PLUMBING PLAN - GAS  
1/4" = 1'-0"







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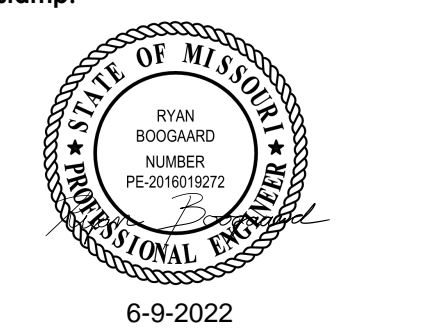
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MOBETTAHS (TI) for LEE'S SUMMIT

520 NW Chipman Rd Lee's Summit, MO 64086

sheet title: ROOF PLUMBING PLAN

sheet number: PL104

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### GENERAL SHEET NOTES

- ALL GAS REGULATORS TO BE 2LB TO 4 OZ TYPE WITH ADJUSTMENT FROM 5" - 12" WATER COLUMN. INSTALL APPROXIMATELY 10' UPSTREAM OF EQUIPMENT CONNECTION.
- RUN ALL GAS PIPING ABOVE CEILING INSIDE TRUSS WEBBING. STUB GAS PIPING UP AT EACH ROOFTOP MOUNTED GAS-FIRED UNIT.
- PAINT ALL EXPOSED CAST IRON PIPING.
- CONTRACTOR SHALL FIELD VERIFY ALL PLUMBING ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
- DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- THIS CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH KITCHEN EQUIPMENT, ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
- INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25/INCH THICKNESS AT 75°F.
- ALL PIPING EXPOSED TO THE OUTDOORS IS TO BE INSULATED AND WEATHERPROOFED.
- ALL GAS PRESSURE REGULATORS ARE TO BE VENTED TO THE OUTSIDE OF THE BUILDING BY THE MECHANICAL CONTRACTOR OR PROVIDE/INSTALL VENTLESS REGULATORS IF ALLOWED BY THE LOCAL JURISDICTION. NONE OF THE VENT PIPING OFF THE REGULATORS ARE SHOWN ON THE PLANS. IF VENTED REGULATORS ARE REQUIRED, SIZE VENTS PER MANUFACTURER'S RECOMMENDATION FOR THE GIVEN DISTANCE.
- WHERE THE JURISDICTION REQUIRES, CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEISMIC RESTRAINT AND SUPPORT ENGINEERED BY A LICENSED STRUCTURAL ENGINEER. PROVIDE DESIGN DRAWINGS TO AUTHORITY HAVING JURISDICTION AND MECHANICAL ENGINEER FOR REVIEW.
- ALL HORIZONTAL PIPING SHOWN IS RUN IN CEILING SPACE BELOW.
- ALL VENT PIPING TO BE A MINIMUM OF 10' FROM ANY INTAKE.
- PROVIDE CONDENSATE TRAP ON ALL ROOFTOP UNITS AND TERMINATE TOWARD ADJACENT ROOF DRAIN.
- ALL INDIRECT WASTE PIPING THAT EXCEEDS 30" IN DEVELOPED LENGTH MEASURED HORIZONTALLY OR 54" IN TOTAL DEVELOPED LENGTH SHALL BE TRAPPED.
- ALL WASTE AND VENT PIPING SHALL BE ABS. ALL ROOF AND OVERFLOW DRAINAGE PIPING TO BE PVC.
- ROOF AND OVERFLOW DRAIN INSULATION TO BE 1" THICK FOR ALL PIPE SIZES. INSULATION ONLY REQUIRED ON HORIZONTAL PRIMARY DRAINS AND ALL DRAIN BOWLS.

### SHEET KEYNOTES

- PROVIDE ISOLATION VALVE, PRESSURE REGULATOR (2 LB TO 4 OZ) AND ALL FINAL CONNECTIONS TO MAU.
- PROVIDE ISOLATION VALVE, PRESSURE REGULATOR (2 LB TO 4 OZ) AND ALL FINAL CONNECTIONS TO RTU.
- 3" VENT UP THROUGH ROOF. COORDINATE EXACT ROOFTOP PENETRATION LOCATION WITH ROOFTOP EQUIPMENT. MAINTAIN 10' MINIMUM CLEARANCE TO ALL FRESH AIR INTAKES.
- 2" VENT UP THROUGH ROOF. COORDINATE EXACT ROOFTOP PENETRATION LOCATION WITH ROOFTOP EQUIPMENT. MAINTAIN 10' MINIMUM CLEARANCE TO ALL FRESH AIR INTAKES.

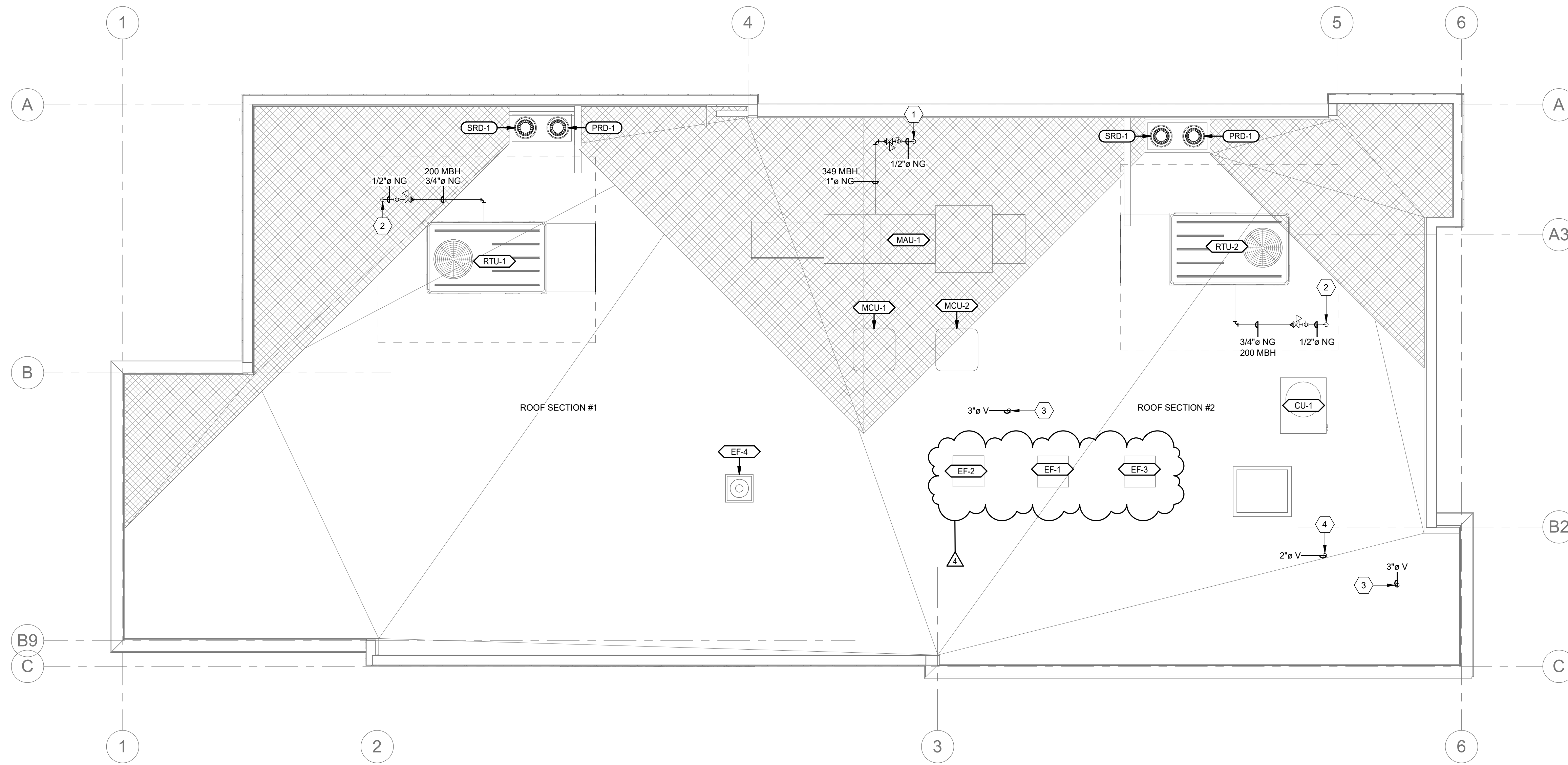
#### ROOF DRAIN CALCULATIONS

ROOF SECTION #1  
1,650 FT<sup>2</sup> \* 3.6 IN. \* 1 FT \* 7.48 GAL. = 62 GPM  
60 MIN 12 IN. 1 FT<sup>3</sup>

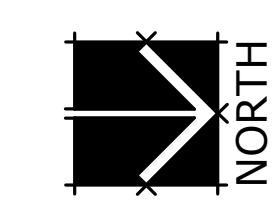
ROOF SECTION #2  
1,500 FT<sup>2</sup> \* 3.6 IN. \* 1 FT \* 7.48 GAL. = 56 GPM  
60 MIN 12 IN. 1 FT<sup>3</sup>

PER 2018 IPC TABLE 1106.2(1) AND TABLE 1106.3, A 3" HORIZONTAL ROOF DRAIN IS SUFFICIENT FOR EACH ROOF SECTION IF SLOPED AT 1/4" PER FOOT OR 1/2" PER FOOT. IF SLOPED AT 1/8" PER FOOT, A 4" ROOF DRAIN IS REQUIRED. THIS DESIGN ASSUMES A 1/8" PER FOOT HORIZONTAL ROOF DRAIN SLOPE.

FOR VERTICAL PIPE SECTIONS, A 3" ROOF LEADER IS ALLOWED.



1 ROOF PLUMBING PLAN - WATER & GAS  
1/4" = 1'-0"



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SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING
	BREAK, ROUND
	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
	NEW LINE: MEDIUM LINE.
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE
	PROPERTY LINE: DASHED, WIDE LINE.
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
	ELECTRICAL EQUIPMENT INDICATOR. "XXX" INDICATES TYPE OF EQUIPMENT OR EQUIPMENT ID. "EF-X" IDENTIFIES MECHANICAL EQUIPMENT BEING SERVED. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "1LA-3" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
WIRING METHODS	
	WIRING.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
	FLEXIBLE WIRING.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
	JUNCTION BOX.
	EARTH GROUND (ONE-LINE DIAGRAM).
	JUNCTION BOX, CEILING.
	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.
LIGHTING CONTROL	
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
	HOUSE RELAY SCHEDULE INDICATOR.
	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
	TRANSFORMER (ONE-LINE DIAGRAM).
	PANELBOARD (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	METER.
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
LIGHTING	
	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	EMERGENCY.
	EGRESS DIRECTION ARROW (EXIT SIGNS).
	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
TECHNOLOGY SYSTEMS	
	VOLUME CONTROL.
WIRING DEVICES	
	RECEPTACLE, DUPLEX: NEMA 5-20R.
	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE": NEMA 5-20R.
	RECEPTACLE, DUPLEX, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, QUADRPLEX: NEMA 5-20R.
	RECEPTACLE, QUADRPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	SWITCH, DIMMER.
	SWITCH, SINGLE POLE ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, DOUBLE POLE ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, THREE-WAY ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, FOUR-WAY ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, DOOR.
	SWITCH, OCCUPANCY SENSOR.
	RECEPTACLE, DUPLEX, TAMPER RESISTANT: NEMA 5-20R.
	RECEPTACLE, SINGLE PLEX, WITH USB OUTLET

ABBREVIATIONS			
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.			
1P	SINGLE POLE	KV	KILOVOLT
1PH	SINGLE-PHASE	KVA	KILOVOLT AMPERE
1WAY	ONE-WAY	KVAR	KILOVOLT AMPERE REACTIVE
2/C	TWO-CONDUCTOR	KW	KILOWATT
2WAY	TWO-WAY	KWh	KILOWATT HOUR
3/C	THREE-CONDUCTOR	LED	LIGHT EMITTING DIODE
3WAY	THREE-WAY	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
4OUT	QUADRUPLE RECEPTACLE OUTLET	LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
4PDT	FOUR-POLE DOUBLE THROW	LPS	LOW PRESSURE SODIUM
4PST	FOUR-POLE SINGLE THROW	LRA	LOCKED ROTOR AMPS
4W	FOUR-WIRE	LTG	LIGHTING
4WAY	FOUR-WAY	LV	LOW VOLTAGE
A	ABOVE COUNTER	MATV	MASTER ANTENNA TELEVISION SYSTEM
AC	ARMORED CABLE	MAX	MAXIMUM
ADA	AMERICANS WITH DISABILITIES ACT	MC	METAL CLAD
ADJ	ADJACENT	MCA	MINIMUM CIRCUIT AMPS
AF	ABOVE FINISHED FLOOR	MCC	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MCCB	MOTOR CONTROL CENTER
AIC	AMPERE INTERRUPTING CAPACITY	MCP	MOTOR CIRCUIT PROTECTION
ALUM	ALUMINUM	MDP	MAIN DISTRIBUTION PANEL
AMP	AMPERE	MG	MOTOR GENERATOR
ANN	ANNUNCIATOR	MH	MANHOLE
AP	ACCESS POINT (WIRELESS DATA)	MIN	MINIMUM
AR	AS REQUIRED	MLO	MAIN LUGS ONLY
ASC	AMPS SHORT CIRCUIT PROTECTION	MOC	MAXIMUM OVERCURRENT
ATS	AUTOMATIC TRANSFER SWITCH	MTS	MANUAL TRANSFER SWITCH
AV	AUDIO VISUAL	NA	NOT APPLICABLE
AWG	AMERICAN WIRE GAGE	NC	NORMALLY CLOSED
BB	BUCK-BOOST TRANSFORMER	NEC	NATIONAL ELECTRICAL CODE
XFMR	TRANSFORMER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
C	CEILING MOUNTED	NFC	NATIONAL FIRE CODE
CATV	COMMUNITY ANTENNA TELEVISION	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NL	NIGHT LIGHT
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	NTS	NOT TO SCALE
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	OC	ON CENTER
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	OCP	OVER CURRENT PROTECTION
CKT	CIRCUIT	OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
CM	CONSTRUCTION MANAGER	OF/OI	OWNER FURNISHED/ OWNER INSTALLED
CO	CONDUIT	OFF	OBTAIN FROM PLANS
CND	CONVENIENCE OUTLET	OH DR	OVERHEAD (COILING) DOOR
CO	CONTRACTING OFFICER'S REPRESENTATIVE	OL	OVERLOAD
COR	CORNER	PB	PUSHBUTTON
CP	CONTROL PANEL	PF	POWER FACTOR
CT	CURRENT TRANSFORMER	PH	PHASE
CTV	CABLE TELEVISION	PNL	PANEL
CU	COPPER	PT	POTENTIAL TRANSFORMER
dB	UNIT OF SOUND LEVEL	PTZ	PAN/TILT/ZOOM
DPDT	DOUBLE POLE, DOUBLE THROW	QTY	QUANTITY
DS	DISCONNECT SWITCH	R	REMOVE
EA	EACH	RCP	REFLECTED CEILING PLAN
EM	EMERGENCY	RMC	RIGID METAL CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RNC	RIGID NONMETAL CONDUIT
ENT	ELECTRIC NONMETALLIC TUBING	RPM	REVOLUTIONS PER MINUTE
EPO	EMERGENCY POWER OFF EQUIPMENT	RR	REMOVE AND RELOCATE
EQUIP	EQUIPMENT	S/S	START/STOP
EX	EXISTING	SCA	SHORT CIRCUIT AMPS
FA	FIRE ALARM	SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
FCP	FIRE ALARM CONTROL PANEL	SF	SQUARE FOOT (FEET)
FLA	FULL LOAD AMPS	SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
FMC	FLEXIBLE METAL CONDUIT	SPD	SURGE PROTECTIVE DEVICE
FOB	FREIGHT ON BOARD	SPDT	SINGLE POLE, DOUBLE THROW SPECIFICATION
FVNR	FULL VOLTAGE NON-REVERSING	SPST	SINGLE POLE, SINGLE THROW
FVR	FULL VOLTAGE REVERSING	ST	SINGLE THROW
GEN	GENERATOR	SWBD	SWITCHBOARD
GFCI	GROUND FAULT INTERRUPTER	SWGR	SWITCHGEAR
GFP	GROUND FAULT PROTECTION	TL	TWIST LOCK
GND	GROUND	TP	TELEPHONE POLE
HD	HEAVY DUTY	TP	TWISTED PAIR
HID	HIGH INTENSITY DISCHARGE	TB	TELEPHONE TERMINAL BOARD
HOA	HAND-OFF-AUTOMATIC	TV	TELEVISION
HP	HORSE POWER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HPP	HIGH POWER FACTOR	TYP	TYPICAL
HPS	HIGH PRESSURE SODIUM	UF	UNDERFLOOR
HV	HIGH VOLTAGE	UGND	UNDERGROUND
HZ	HERTZ	LPS	UNINTERRUPTIBLE POWER SUPPLY
I/O	INPUT/ OUTPUT	V	VOLTS
IG	ISOLATED GROUND	V	VOLT AMPERE
IMC	INTERMEDIATE METAL CONDUIT	VFC/VF	VARIABLE FREQUENCY MOTOR CONTROLLER
IN/IS	INSULATED/ ISOLATED	W	WITH
IR	INFRARED	W/O	WITHOUT
J-BOX	JUNCTION BOX	WP	WEATHERPROOF
		XFMR	TRANSFORMER

GENERAL ELECTRICAL NOTES	
1.	CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC., SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.
2.	OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM. <ul style="list-style-type: none"> <li>A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.</li> <li>B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.</li> <li>C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.</li> </ul>
3.	EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
4.	SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED, JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
5.	REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.
6.	ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

ELECTRICAL SHEET INDEX	
EE001	SHEET INDEX, ABBREV., AND GENERAL NOTES
EE501	ELECTRICAL DETAILS
EE701	TYPICAL MOUNTING HEIGHT DETAILS
ES101	ELECTRICAL SITE PLAN
EP101	LEVEL 1 POWER PLAN
EP102	ROOF POWER PLAN
EP401	ENLARGED POWER PLANS
EP601	ONE-LINE DIAGRAM
EP602	EQUIPMENT SCHEDULE
EP603	PANEL SCHEDULES
EL101	LEVEL 1 LIGHTING PLAN
EL501	RELAY PANEL CUTSHEETS AND SCHEDULE
EL601	INTERIOR LIGHTING FIXTURE SCHEDULE
EL602	EXTERIOR LIGHTING FIXTURE SCHEDULE

DEFINITIONS	
NOTE: ALL DEFINITIONS MAY NOT BE USED.	
INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.	
DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.	
APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.	
FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."	
INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."	
PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."	
INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.	
TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...	



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sheet information

revisions:

num.	description	date
4	REV04	06.07.22

date:	1-23-2022
project number:	MO-53LEE
project status:	ISSUED FOR CONSTRUCTION

original drawing is 34" x 36"  
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LEE S SUMMIT  
PROFESSIONAL ENGINEER  
01-23-2022

sheet number:

**MOBETTAHS (TI)**  
LEE'S SUMMIT

520 NW Chipman Rd  
Lee's Summit, MO 64086

**SAVORY**  
MANAGEMENT

SHEET INDEX, ABBREV., AND GENERAL NOTES

sheet number:

**EE001**

**SPECTRUM**  
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Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	B	11	Liton Lighting Inc	WD2340B-L15-BD45-BU45UE-DUN	4" ROUND 2-DIRECTION WALL MOUNT (IP64) - 2 X 1500LM		1	WD2340B-L15-BD45-BU45UE-DUN.ies	3827	0.8	37.42
	A	6	Lithonia Lighting	DSX0 LED P4 40K BLC MVOLT	DSX0 LED P4 40K BLC MVOLT	LED	1	DSX0_LED_P4_40K_BLC_MVOLT.ies	8656	0.9	92
	C	1	Lithonia Lighting	DSX0 LED P4 40K T5S MVOLT	DSX0 LED P4 40K T5S MVOLT	LED	1	DSX0_LED_P4_40K_T5S_MVOLT.ies	10989	0.9	92

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
DRIVE AISLE	+	1.8 fc	4.1 fc	0.5 fc	8.2:1	3.6:1

### SHEET KEYNOTES

- POWER FOR DRIVE-THRU MENU SIGNAGE AND DRIVE THRU COMMUNICATIONS. PROVIDE SEPARATE CONDUIT & CABLE FOR COMMUNICATIONS PER MANUFACTURER'S WRITTEN INSTRUCTION. COORDINATE WITH ARCHITECTURAL PLANS FOR MORE DETAIL.
- PRE-ORDER MENU BOARD. PROVIDE (2) 3/4" CONDUIT FOR DATA AND POWER STUBBED OUT AT BASE OF BOARD. SEE ARCHITECTURAL SITE PLAN FOR EXACT LOCATION.
- DRIVE-THRU ENTRANCE SIGN. PROVIDE (2) 1" CONDUIT STUBBED OUT AT BASE OF SIGN. SEE ARCHITECTURAL SITE PLAN FOR EXACT LOCATION.
- EMERGENCY LIGHTING FIXTURE. PROVIDE AND INSTALL UL924 LISTED EMERGENCY BATTERY BACKUP (BASIS OF DESIGN: CENTRALIZED INVERTER IN ELECTRICAL ROOM). PROVIDE ALL CONNECTIONS TO BATTERY BACKUP DEVICES INCLUDING CONSTANT HOT WIRE FROM PANEL TO INITIATE IN POWER FAILURE.

### GENERAL SHEET NOTES

- THE ELECTRICAL CONTRACTOR SHALL MEET WITH AND COORDINATE WITH ALL SERVICE PROVIDERS (POWER, COMMUNICATION, CABLE/SATELLITE, ETC.) TO THE FACILITY ON SITE PRIOR TO ANY WORK BEING PERFORMED. CONFIRM WITH EACH SERVICE PROVIDER EXACT LOCATIONS EQUIPMENT AND ROUTING. COMPLY WITH ALL SERVICE PROVIDER'S CURRENT STANDARDS AND REQUIREMENTS. PROVIDE THE REQUIRED EQUIPMENT, RACEWAYS, BOXES, CABLE, ETC. AS REQUIRED BY THE SERVICE PROVIDER WHETHER SHOWN ON THE DRAWINGS OR NOT.
- FOR ALL LIGHT FIXTURES, POLE LIGHTS, AND ALL OTHER ELECTRICAL DEVICES THE CONTRACTOR SHALL COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS WITH ARCHITECT, OWNER, ENGINEER, AND ALL OF THE CONTRACT DOCUMENTS PRIOR TO ROUGH IN AND TRENCHING.
- CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, BACKFILL, AND COMPACTION ASSOCIATED TO ALL ELECTRICAL UNDERGROUND RACEWAYS AND CABLES COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS. SEE UNDERGROUND RACEWAY DETAILS FOR REQUIREMENTS FOR EACH TRENCH.
- CONTRACTOR SHALL INSTALL POLE MOUNTED LIGHTS IN STRAIGHT LINES, SQUARE, AND PLUMB. COORDINATE WITH ARCHITECT AND CIVIL DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL HAVE ANY AND ALL CONCRETE POLE BASES AND SLABS REVIEWED BY A STRUCTURAL ENGINEER AND SHALL MODIFY DESIGN PER STRUCTURAL ENGINEER'S AND/OR AHJ'S RECOMMENDATIONS.
- PROVIDE WITH UL 942 LISTED EMERGENCY BATTERY BACKUP ALL EXTERIOR FIXTURES ADJACENT TO EGRESS DOORS.
- ALL EXTERIOR RECEPTACLES SHOWN SHALL BE NEMA 5-20R GFCI "WEATHER RESISTANT" RECEPTACLE WITH "WEATHER PROOF IN-USE COVER."
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONCRETE/ASPHALT CUTTING AND REPLACEMENT OF CONCRETE/ASPHALT TO MATCH EXISTING ASSOCIATED WITH UNDERGROUND RACEWAYS PROVIDED AS PART OF THIS PROJECT.
- REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
- PROVIDE SERVICE RATED EQUIPMENT AT EACH SERVICE ENTRANCE.
- SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. VERIFY OR RE-CALCULATE THE AVAILABLE FAULT CURRENT AT THE SERVICE WHERE MODIFICATIONS TO THE ELECTRICAL INSTALLATION OCCUR. PLEASE INCLUDE NOTES IN THE ELECTRICAL DRAWINGS OR SUPPLY CALCULATIONS WHERE APPLICABLE SEE NEC 110.24 (B)

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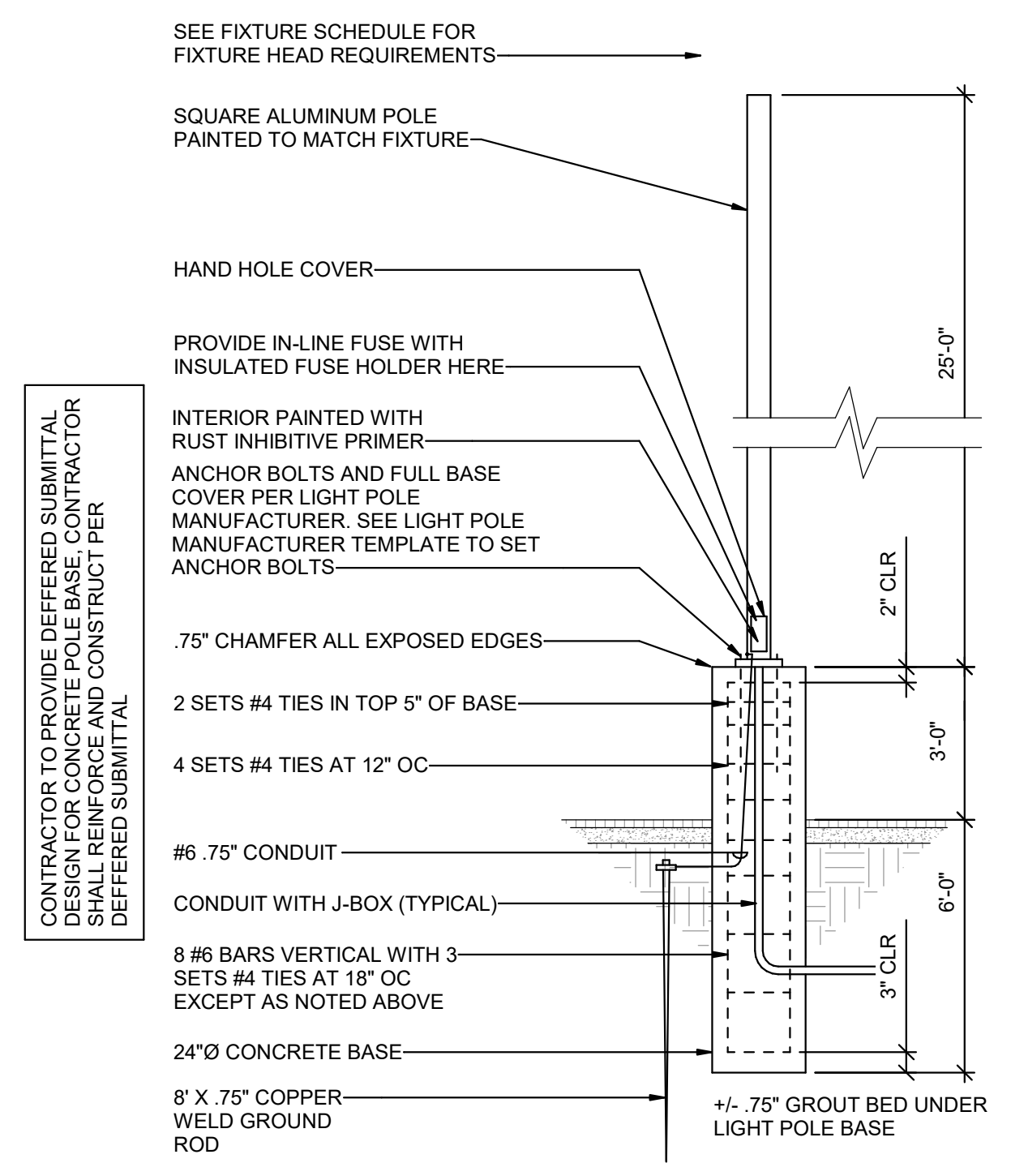
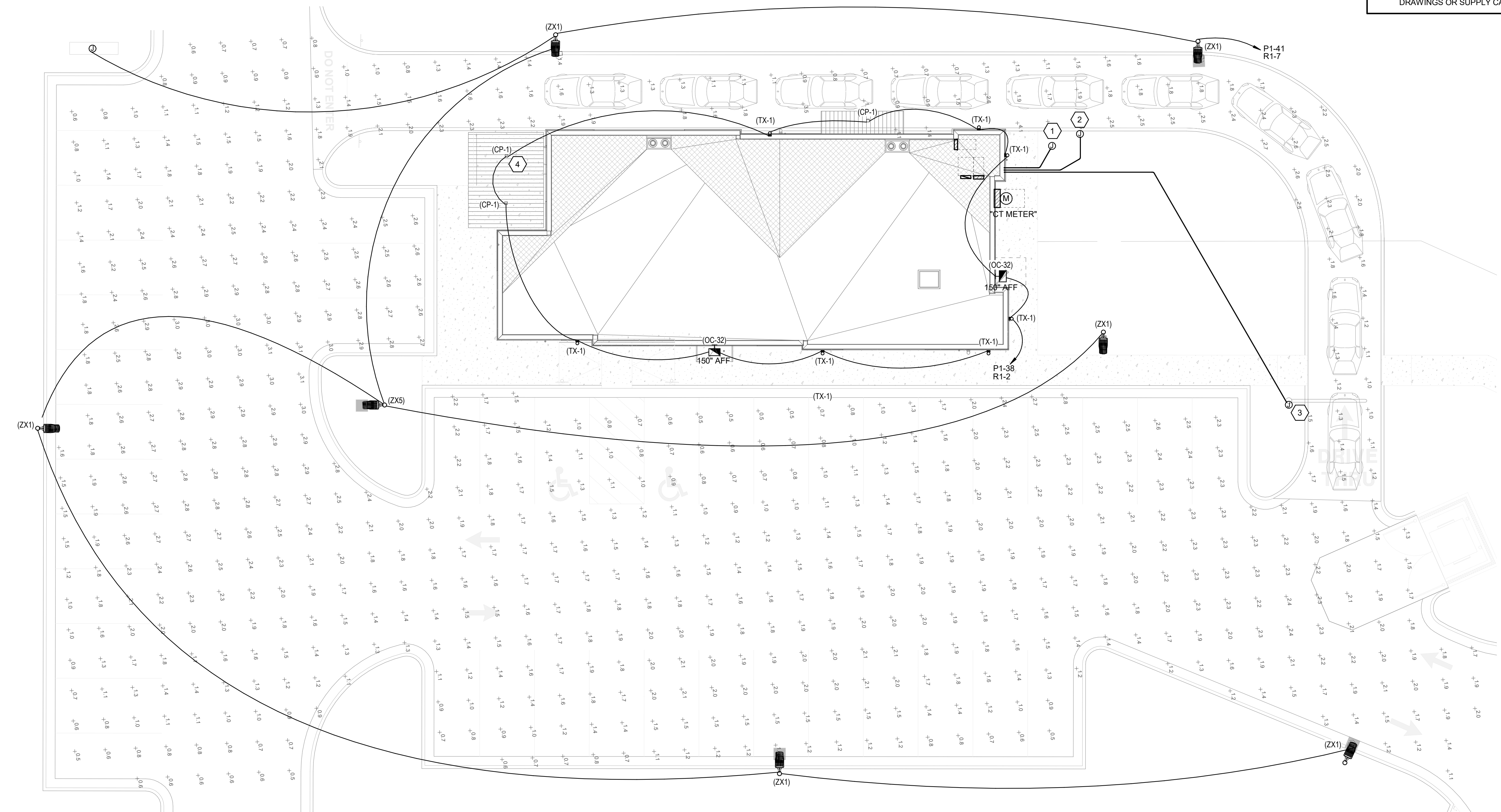
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1	IFP_ADD-01	03-11-22
3	REVISION 03	05-06-22
4	REV04	06-07-22



1 | PARKING LOT LIGHT POLE BASE DETAIL  
 NOT TO SCALE

2 | SITE ELECTRICAL PLAN  
 1" = 10'-0"

date: 1-23-2022  
 project number: MO-53LEE  
 project status: ISSUED FOR CONSTRUCTION

original drawing is 34" x 36"  
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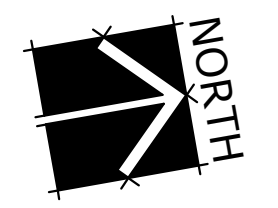
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 WILLIAM N. FEAT  
 LICENSE NUMBER: 16454500000  
 PROFESSIONAL ENGINEER  
 01-23-2022

sheet number:  
**MOBETTAHS (TI)**  
 for  
**LEE'S SUMMIT**  
 520 NW Chipman Rd  
 Lee's Summit, MO 64086

**SAVORY MANAGEMENT**  
 ELECTRICAL SITE PLAN

sheet number:  
**ES101**

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### SHEET KEYNOTES

- 1 OPEN/CLOSE SIGN AND TIE TO LIGHTING CONTROL PANEL IN UTILITY ROOM. OPEN/CLOSE OUTLET ARE TO BE MOUNTED ABOVE CEILING. COORDINATE WITH OWNER AND ARCHITECT FOR EXACT LOCATION.
- 2 CONTRACTOR SHALL LOCATE ANY EXISTING EXTERIOR LIGHTING CIRCUITS AND TRACE BACK CONDUIT TO NON EXPOSED LOCATION. EXTEND CONDUIT AND CONDUCTORS TO NEW ELECTRICAL PANEL P1 CIRCUITING THROUGH LIGHTING CONTROL PANEL.
- 3 WORKING SPACE IS REQUIRED TO BE MAINTAINED IN FRONT OF PANELS AND SWITCHBOARDS IN ACCORDANCE WITH NEC 110.26.
- 4 PROVIDE POWER AND DATA FOR MAKE-LINE. COORDINATE WITH KITCHEN EQUIPMENT PROVIDER FOR RACEWAYS AND MOUNTING LOCATIONS.

### GENERAL SHEET NOTES

- 1 PROVIDE TYPEWRITTEN PANEL SCHEDULES AT THE COMPLETION OF THE PROJECT.
- 2 ALL KITCHEN AND FOOD PREP AREA OUTLETS SHALL BE GFCI PROTECTED.
- 3 PROVIDE DEDICATED NEUTRAL FOR ALL BRANCH CIRCUITS.
- 4 VERIFY ALL EQUIPMENT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE FINAL CONNECTIONS FOR OWNER SUPPLIED EQUIPMENT. VERIFY OUTLETS ARE NOT PLACED BEHIND LEG OF TABLE OR EQUIPMENT.
- 5 ALL OUTLETS UNMARKED ARE +18" AFF.
- 6 SEE KITCHEN DRAWINGS FOR EXACT LOCATION AND HEIGHT OF ALL KITCHEN EQUIPMENT.
- 7 CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL CORD AND PLUG FOR EQUIPMENT THAT DOES NOT COME WITH CORD AND PLUG.
- 8 RECEPTACLES TO BE COORDINATED WITH FINAL FURNITURE AND EQUIPMENT PLAN. DINING CONVENIENCE OUTLETS ARE TO BE ACCESSIBLE AND CENTERED BETWEEN FURNITURE WHERE POSSIBLE.
- 9 ALL EQUIPMENT UNDER HOOD ARE TO BE SUPPLIED WITH SHUNT-TRIP CIRCUIT BREAKERS CONNECTED TO ANSUL SYSTEM.
- 10 COORDINATE WITH ARCHITECT AND OWNER TO DESIGNATE OUTLET AND PLATE COVER COLORS. (WHITE IN KITCHEN AND BLACK EVERYWHERE ELSE.)
- 11 PROVIDE BLACK OUTLETS IN ALL SERVICE AND DINING AREAS.
- 12 ALL RECEPTACLES IN THE DINING AREA, 5'-6" AND BELOW SHALL BE TAMPER-RESISTANT.



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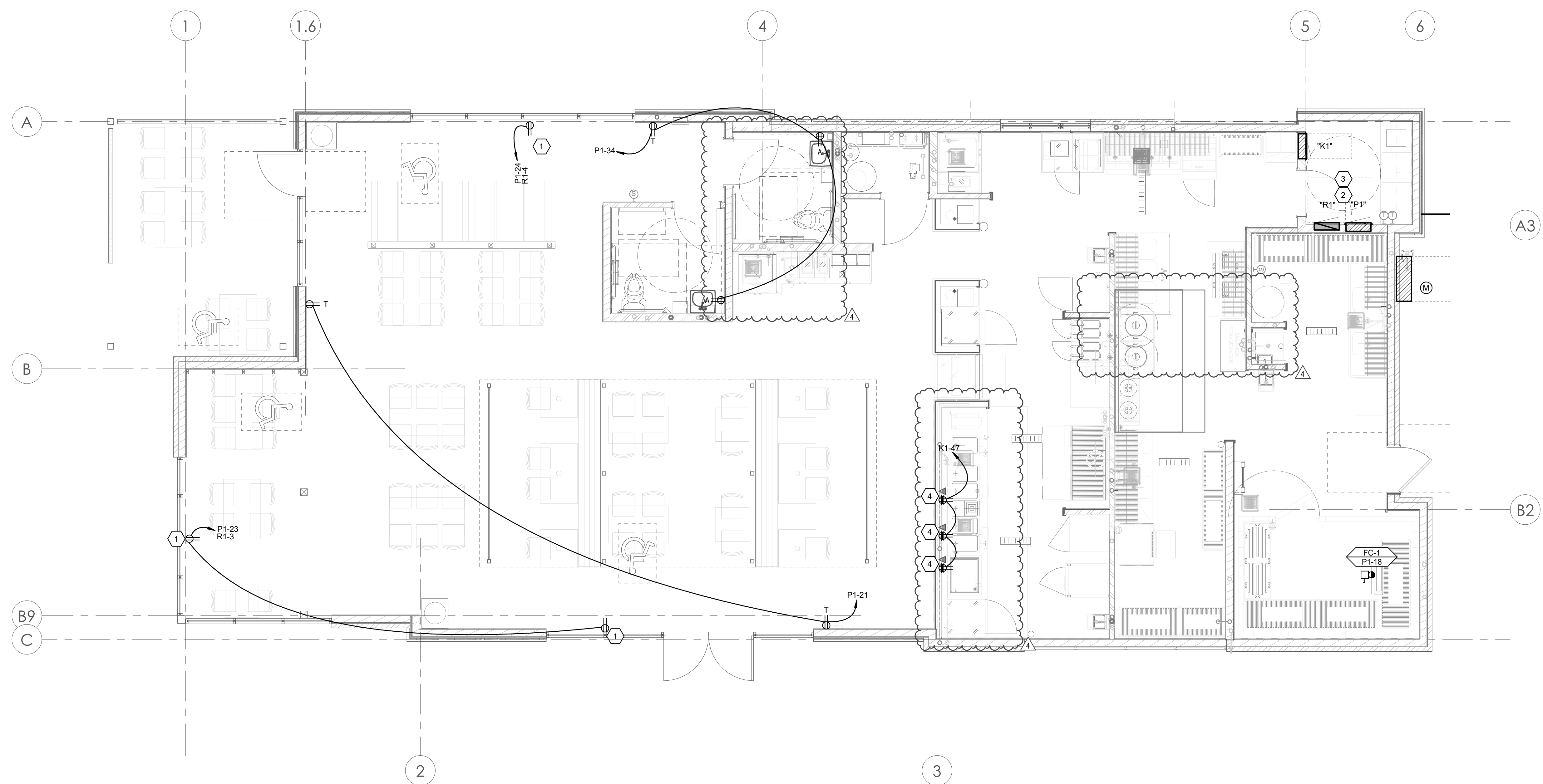
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4	REV04	06-07-22



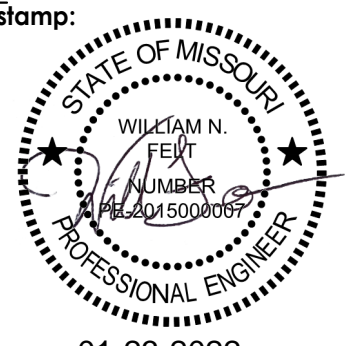
**1** LEVEL 1 POWER PLAN  
 1/4" = 1'-0"

date: 1-23-2022  
 project number: MO-53LEE  
 project status: ISSUED FOR CONSTRUCTION

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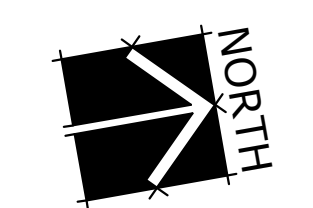
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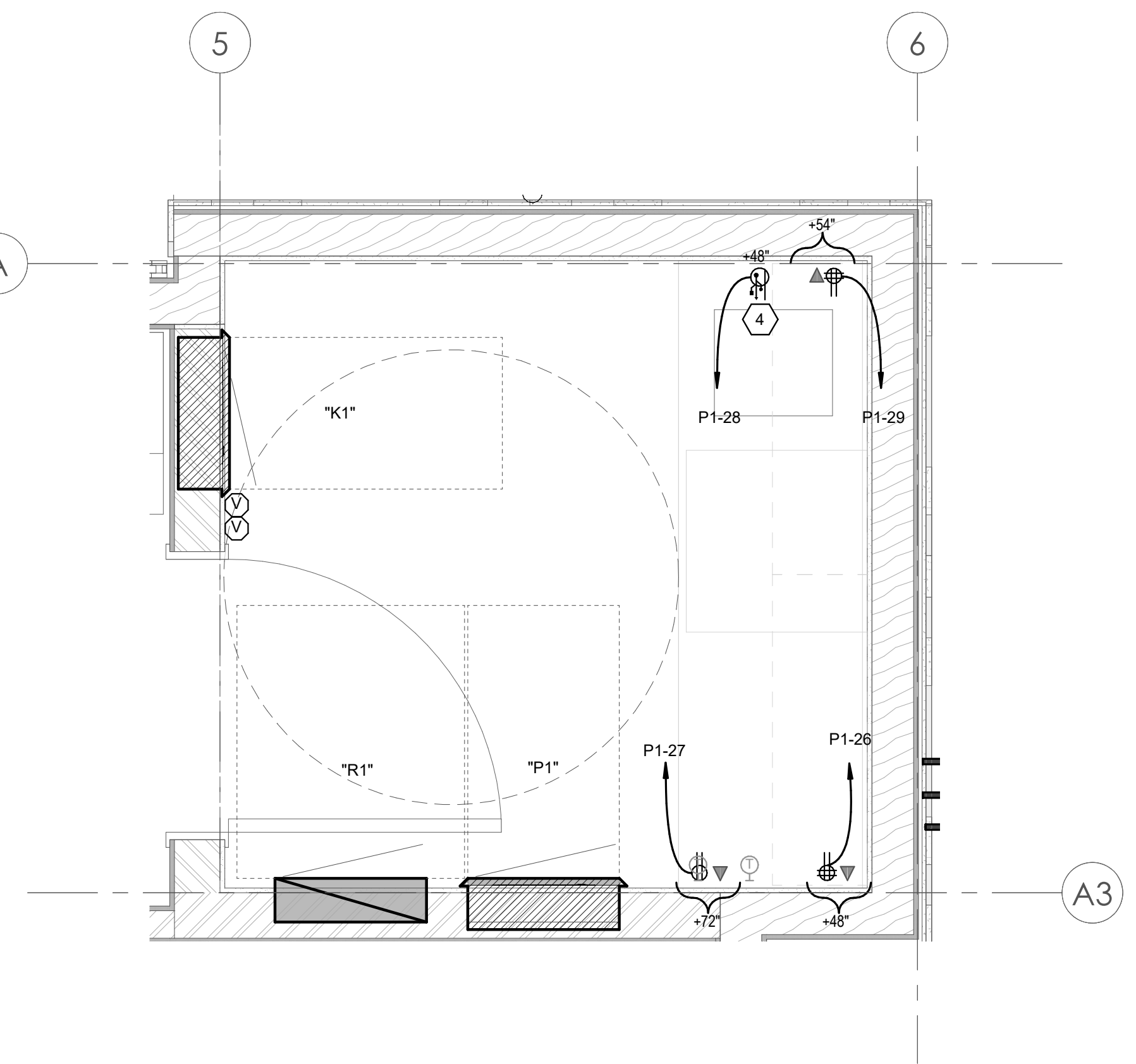
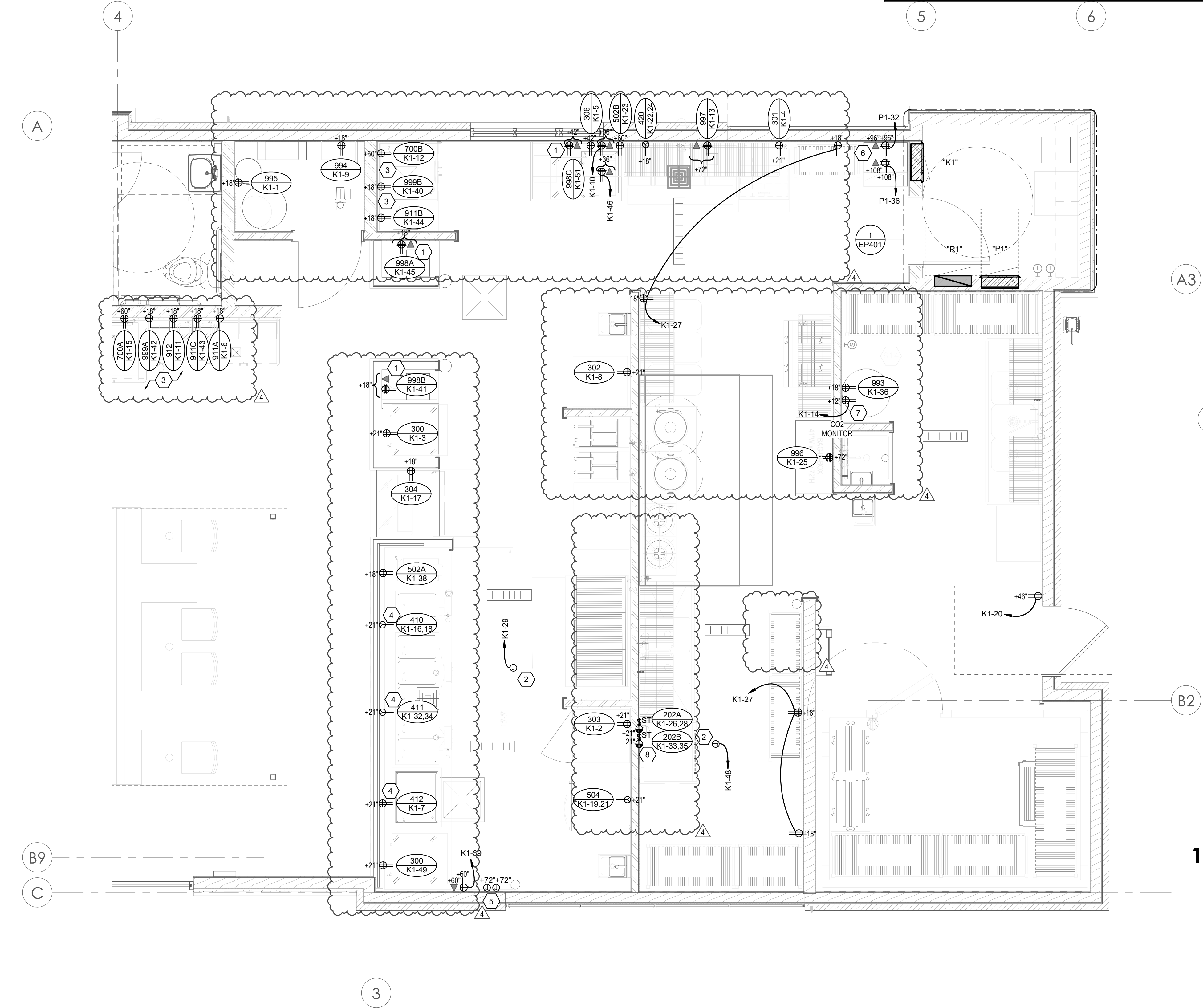
**SAVORY MANAGEMENT**  
 LEVEL 1 POWER PLAN  
 sheet number:  
**EP101**

### SHEET KEYNOTES

- 1 INSTALL (2) 1" FLEX CONDUIT (1 POWER, 1 DATA) FROM UNDERGROUND TO EACH OF THE POS LOCATIONS. MOUNTING HEIGHT TBD; COORDINATE WITH MILLWORK PROVIDER.
- 2 PROVIDE 120 VOLT POWER ABOVE FINISHED CEILING AND TERMINATE FOR CONTROL POWER TO HOOD, CONTRACTOR RESPONSIBLE TO PROVIDE FIRE SHUT OFF, SHUNT TRIP, CONNECTED CONTROLS, AND COORDINATION WITH BUILDING OWNER TO CONNECT CONTROLS TO FIRE ALARM SYSTEM PER CODE REQUIREMENTS.
- 3 COORDINATE WITH MILLWORK AND COUNTER INSTALLER FOR EXACT PLACEMENT AND REQUIREMENTS.
- 4 RUN WIRING IN BUILT-IN CHASE UNDERNEATH CUSTOM TABLE.
- 5 PROVIDE RACEWAY BETWEEN AV CABINET AND J-BOXES.
- 6 PROVIDE CONDUIT AND CONDUCTORS STUBBED TO AV CABINET LOCATION. AFTER AV CABINET HAS BEEN INSTALLED PROVIDE SURFACE MOUNTED OUTLETS INSIDE AV CABINET. COORDINATE WITH OWNER AND AV INSTALLERS FOR EXACT OUTLET PLACEMENT. AV RACK MOUNTED AT 9'-0" AFF.
- 7 PROVIDE ELECTRICAL CONNECTION AND SYSTEM FOR CO2 MONITORING. BASIS OF DESIGN: LOGICO2 ALERT SYSTEM BY NUCO2.
- 8 DOUBLE STACKED OVENS, COORDINATE EXACT HEIGHT WITH KITCHEN EQUIPMENT INSTALLER.

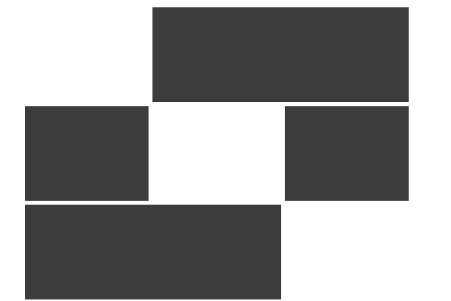
### GENERAL SHEET NOTES

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- 12 ALL RECEPTACLES IN THE DINING AREA, 5'-6" AND BELOW SHALL BE TAMPER-RESISTANT.



2 | ENLARGED KITCHEN POWER PLAN  
3/8" = 1'-0"

1 | ENLARGED ELEC CLOSET POWER PLAN  
3/4" = 1'-0"



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4	REV04	06-07-22

date: 1-23-2022

project number: MO-53LEE

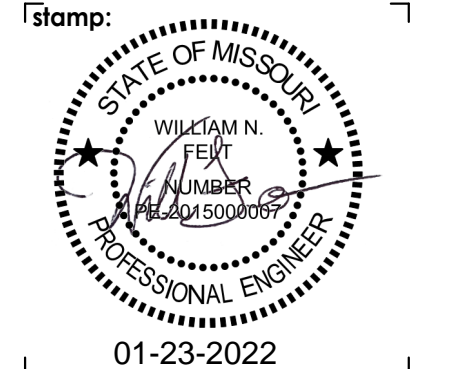
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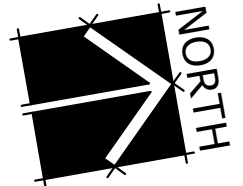
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**SAVORY**  
MANAGEMENT  
sheet title:  
ENLARGED POWER PLANS

sheet number:

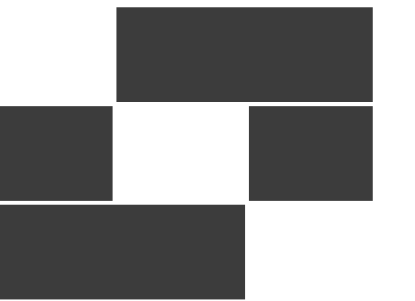
**EP401**

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## EQUIPMENT SCHEDULE

MARK	QTY	ITEM DESCRIPTION	LOAD DATA							WIRE AND CONDUIT SIZE	OVERCURRENT PROTECTION			DISCONNECT			STARTER					NOTES	MARK		
			HP	KW	MCA	FLA	VOL T	PH	Hz		FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	SIZES	SELECTOR SWITCH	PILOT LAMP			NORMALLY OPEN CONTACT	NORMALLY CLOSED CONTACT
CU-1	1	CONDENSING UNIT	1	-	-	13.6	208	1	60	3 #10, 10 GR 0.75" CND	E	30/2 CB	P1	E	30A/2P FRS-20	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	CU-1
EF-1	1	EXHAUST FAN	1	-	-	6.9	208	1	60	3 #12, 12 GR 0.75" CND	E	15/2 CB	P1	Q	TOGGLE SWITCH	ADJ TO EQUIP	E	-	-	-	-	-	-	EF-1	
EF-2	1	EXHAUST FAN	1	-	-	6.9	208	1	60	3 #12, 12 GR 0.75" CND	E	15/2 CB	P1	Q	TOGGLE SWITCH	ADJ TO EQUIP	E	-	-	-	-	-	-	EF-2	
EF-3	1	EXHAUST FAN	1	-	-	6.9	208	1	60	3 #12, 12 GR 0.75" CND	E	15/2 CB	P1	Q	TOGGLE SWITCH	ADJ TO EQUIP	E	-	-	-	-	-	-	EF-3	
EF-4	1	EXHAUST FAN	.05	-	1	0.8	120	1	60	2 #12, 12 GR 0.75" CND	E	15/1 CB	P1	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	EF-4	
FC-1	1	FAN COIL UNIT	-	-	-	0.8	120	1	60	2 #12, 12 GR 0.75" CND	E	15/1 CB	P1	E	30A/2P NF	ADJ TO EQUIP	Q	-	-	-	-	-	-	FC-1	
MAU-1	1	MAKE UP AIR UNIT	5	-	18.8	15	208	3	60	4 #10, 10 GR 0.75" CND	E	30/3 CB	P1	Q	30A/3P FRN-25	ADJ TO EQUIP	Q	-	-	-	-	-	-	MAU-1	
MCU-1	1	CONDENSING UNIT	3	-	14.5	11.9	208	3	60	4 #10, 10 GR 0.75" CND	E	30/3 CB	P1	E	30A/3P FRS-20	ADJ TO EQUIP	Q	-	-	-	-	-	-	MCU-1	
MCU-2	1	CONDENSING UNIT	5	-	21.4	17.4	208	3	60	4 #8, 10 GR 1" CND	E	40/3 CB	P1	E	60A/3P FRS-30	ADJ TO EQUIP	Q	-	-	-	-	-	-	MCU-2	
RTU-1	1	ROOF TOP UNIT	2.75	-	53.4	42.7	208	3	60	4 #4, #8 GR 1.25" CND	E	70/3 CB	P1	Q	100A/3P FRN-80	ADJ TO EQUIP	Q	-	-	-	-	-	-	RTU-1	
RTU-2	1	ROOF TOP UNIT	2.75	-	53.4	42.7	208	3	60	4 #4, #8 GR 1.25" CND	E	70/3 CB	P1	Q	100A/3P FRN-80	ADJ TO EQUIP	Q	-	-	-	-	-	-	RTU-2	



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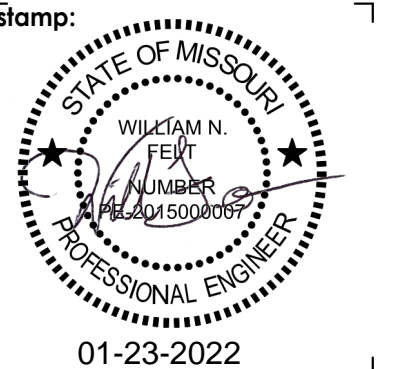
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**MOBETTAHS (TI)**  
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## FOOD SERVICE EQUIPMENT SCHEDULE

ITEM NO.	QTY	DESCRIPTION	ELEC. CONN.	PANEL	CKT #	VOLT	POL E	AFF	HP	AMPS	KW	WIRE AND CONDUIT SIZE	ELECTRICAL REMARKS
202A	1	CONVECTION OVEN	SWITCH CONTROLS	K1	26,28	208 V	2	21"	-	25.8	5.4	3 #10 #10 GR 0.75" CND	DIRECT WIRE, THERMAL SWITCH, 40A/2P CB, SHUNT TRIP
202B	1	CONVECTION OVEN	SWITCH CONTROLS	K1	33,35	208 V	2	21"	-	25.8	5.4	3 #10 #10 GR 0.75" CND	DIRECT WIRE, THERMAL SWITCH, 40A/2P CB, SHUNT TRIP
300	2	UNDERCOUNTER REFRIGERATOR	DUPLEX RECEPTACLE	K1		120 V	1	21"		2.5	0.3	2 #12, #12 GR 0.75" CND	NEMA 5-20R
301	1	REFRIGERATED PREP TABLE (27x34)	DUPLEX RECEPTACLE	K1	4	120 V	1	21"	1/5	3.3	0.4	2 #12, #12 GR 0.75" CND	NEMA 5-20R
302	1	REACH-IN DUAL TEMP CABINET	DUPLEX RECEPTACLE	K1	8	120 V	1	21"	3/8	4.8	0.6	2 #12, #12 GR 0.75" CND	NEMA 5-20R
303	1	REACH-IN REFRIGERATOR	DUPLEX RECEPTACLE	K1	2	120 V	1	21"	1/4	2.5	0.3	2 #12, #12 GR 0.75" CND	NEMA 5-20R
304	1	REFRIGERATED DISPLAY CASE	DUPLEX RECEPTACLE	K1	17	120 V	1	18"	1/3	16.0	1.9	2 #10, #10 GR 0.75" CND	NEMA 5-20R
306	1	UNDERCOUNTER REFRIGERATOR	DUPLEX RECEPTACLE	K1	5	120 V	1	21"	1/5	2.3	0.3	2 #12, #12 GR 0.75" CND	NEMA 5-20R
410	1	SINGLE PAN DROP-IN HOT WELL	SPECIAL PURPOSE RECEPTACLE	K1	16,18	208 V	2	21"	-	5.9	1.2	3 #12, #12 GR 0.75" CND	NEMA 6-20R
411	1	DROP-IN HOT WELL	SPECIAL PURPOSE RECEPTACLE	K1	32,34	208 V	2	21"	-	27.3	5.7	3 #10 #10 GR .75" CND	NEMA 6-50R
412	1	DROP-IN COLD WELL	DUPLEX RECEPTACLE	K1	7	120 V	1	21"	1/5	3.8	0.5	2 #12, #12 GR 0.75" CND	NEMA 5-20R
420	1	HOT FOOD-SOUP STATION	SPECIAL PURPOSE RECEPTACLE	K1	22,24	208 V	2	18"	-	16.6	3.5	3 #12 #12 GR 0.75" CND	NEMA 6-20R
502A	1	WARMER, FOOD OVERHEAD	DUPLEX RECEPTACLE	K1	38	120 V	1	18"	-	6.3	0.8	2 #12, #12 GR 0.75" CND	NEMA 5-20R
502B	1	WARMER, FOOD OVERHEAD	DUPLEX RECEPTACLE	K1	23	120 V	1	18"	-	6.3	0.8	2 #12, #12 GR 0.75" CND	NEMA 5-20R
504	1	CABINET, HEATED, REACH-IN	SPECIAL PURPOSE RECEPTACLE	K1	19,21	208 V	2	21"	-	7.2	1.5	3 #12, #12 GR 0.75" CND	NEMA 6-20R
700A	1	ICE MACHINE	DUPLEX RECEPTACLE	K1	15	120 V	1	60"	-	6.5	0.8	2 #12, #12 GR 0.75" CND	NEMA 6-20R
700B	1	ICE MACHINE	DUPLEX RECEPTACLE	K1	12	120 V	1	60"	-	6.5	0.8	2 #12, #12 GR 0.75" CND	NEMA 6-20R
911A	1	DISPENSER, BEVERAGE	DUPLEX RECEPTACLE	K1	6	120 V	1	18"	-	6.5	0.8	2 #12, #12 GR 0.75" CND	NEMA 5-20R
911B	1	DISPENSER, BEVERAGE	DUPLEX RECEPTACLE	K1	44	120 V	1	18"	-	6.5	0.8	2 #12, #12 GR 0.75" CND	NEMA 5-20R
911C	1	DISPENSER, BEVERAGE	DUPLEX RECEPTACLE	K1	43	120 V	1	18"	-	6.5	0.8	2 #12, #12 GR 0.75" CND	NEMA 5-20R
912	1	DISPENSER, ICE TEA	DUPLEX RECEPTACLE	K1	11	120 V	1	18"	-	13.8	1.7	2 #12, #12 GR 0.75" CND	NEMA 5-20R
993	1	BULK CO2 TANK	DUPLEX RECEPTACLE	K1	38	120 V	1	18"	-	3.0	0.4	2 #12, #12 GR 0.75" CND	NEMA 5-20R
994	1	WATER HEATER	DUPLEX RECEPTACLE	K1	9	120 V	1	18"	-	4.0	0.5	2 #12, #12 GR 0.75" CND	NEMA 5-20R
995	1	WATER SOFTENER	DUPLEX RECEPTACLE	K1	1	120 V	1	18"	-	1.0	0.1	2 #12, #12 GR 0.75" CND	NEMA 5-20R
996	1	BAG-IN-BOX SHELIVING	QUADRAPLEX RECEPTACLE	K1	25	120 V	1	72"	-	7.9	0.9	2 #12, #12 GR 0.75" CND	NEMA 5-20R
997	1	RECEIPT PRINTER	DUPLEX RECEPTACLE	K1	13	120 V	1	72"	-	4.2	0.5	2 #12, #12 GR 0.75" CND	NEMA 5-20R
998A	1	CASH REGISTER	QUADRAPLEX RECEPTACLE	K1	45	120 V	1	18"	-	3.0	0.4	2 #12, #12 GR 0.75" CND	NEMA 5-20R
998B	1	CASH REGISTER	QUADRAPLEX RECEPTACLE	K1	41	120 V	1	18"	-	3.0	0.4	2 #12, #12 GR 0.75" CND	NEMA 5-20R
998C	1	CASH REGISTER	QUADRAPLEX RECEPTACLE	K1	51	120 V	1	42"	-	3.0	0.4	2 #12, #12 GR 0.75" CND	NEMA 5-20R
999A	1	8 - VALVE BEVERAGE DISPENSER	DUPLEX RECEPTACLE	K1	42	120 V	1	18"	-	3.0	0.4	2 #12, #12 GR 0.75" CND	NEMA 5-20R
999B	1	8 - VALVE BEVERAGE DISPENSER	DUPLEX RECEPTACLE	K1	40	120 V	1	18"	-	3.0	0.4	2 #12, #12 GR 0.75" CND	NEMA 5-20R

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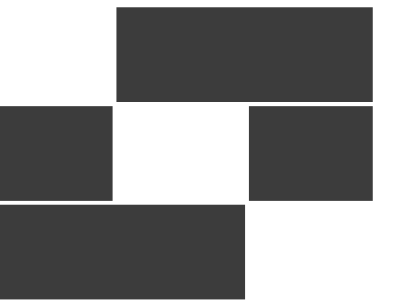
**SAVORY MANAGEMENT**  
EQUIPMENT SCHEDULE

sheet number:

**EP602**

PANEL: "P1"																	
VOLTS/PHASE/WIRE:			PANEL SIZE & TYPE:			MAIN SIZE AND TYPE:			FED FROM:	CABINET:	LOCATION:	NOTES:					
120/208V, 3 PH 4 WIRE			22" W x 6" D, BOLT-ON			400 AMPERE MAIN CB				RECESSED	UTILITY ROOM						
ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR AIC RATING: 35,000																	
CKT NO	AMP	POLE	BKR	LOAD (kVA)			PHASE LOAD			DESCRIPTION	LOAD (kVA)			BKR	POLE	AMP	CKT NO
				LTG	PWR	CO	A	B	C		CO	PWR	LTG				
1	70	3		0.0	13.8	0.0				RTU-1	4.6	4.0					2
3	--	--	--	--	--	--				--							4
5	--	--	--	--	--	--				--							6
7	15	2		0.0	1.3	0.0				EF-1	0.6	0.6					8
9	--	--	--	--	--	--				--							10
11	15	2		0.0	1.3	0.0				EF-3			0.6	0.1			12
13	--	--	--	--	--	--				--	0.6	0.8					14
15	30	3		0.0	5.4	0.0				MAU-1		1.8	0.5				16
17	--	--	--	--	--	--				--			1.8	0.1			18
19	--	--	--	--	--	--				--							20
21	20	1		0.0	0.0	0.4				ENTRANCE IPADS		1.8	1.4				22
23	20	1		0.0	0.0	1.4				OPEN/CLOSE SIGNAGE		0.4	1.4				24
25	20	1		0.0	0.0	0.2				SPARE	0.0	0.4					26
27	20	1		0.0	0.0	0.2				CO	0.2	0.1					28
29	20	1		0.0	0.0	0.4				CO		0.4	0.7				30
31	20	1		0.8	0.0	0.0				DINING LIGHTING	1.0	0.4					32
33	200	3		0.0	12.2	3.1				K1		12.2	0.5				34
35	--	--	--	--	--	--				--			16.0	0.4			36
37	--	--	--	--	--	--				--							38
39	20	1		0.1	0.0	0.0				RESTROOM & ELEC CLOSET LTG		0.1	0.8				40
41	20	1		1.4	0.2	0.0				SITE LIGHTING			1.6	0.2			42
43	30	3		0.0	4.3	0.0				MCU-1	1.4	2.1					44
45	--	--	--	--	--	--				--			1.4	2.1			46
47	--	--	--	--	--	--				--							48
49	20	1		0.0	0.0	0.4				SPARE	0.0	0.0					50
51	20	1		0.0	0.0	0.4				SPARE		0.0	0.0				52
53	20	1		0.0	0.0	0.4				SPARE		0.0	0.0				54
55	20	1		0.0	0.0	0.4				SPARE	0.0	0.0					56
57	20	1		0.0	0.0	0.4				SPARE		0.0	0.0				58
59	20	1		0.0	0.0	0.4				SPARE		0.0	0.0				60
<b>TOTALS:</b>				CONNECTED kVA PER PHASE			34	31	36	CONNECTED TOTAL kVA =			101				
				CONNECTED AMPS PER PHASE			283	261	303	AVERAGE CONNECTED AMPS PER PHASE =			280				
<b>NEC DIVERSIFIED LOAD CALCULATIONS</b>																	
LIGHTING & CONTINUOUS LOADS: 3.9 kVA @ 125% = 4.9 kVA					- 100% CONNECTED LOAD PLUS 25%					DIVERSIFIED TOTAL kVA = 96							
RECEPTACLES: 8.3 kVA @ 100% = 8.3 kVA					- FIRST 10kVA @ 100%, REMAINDER @ 50%					AVERAGE AMPS PER PHASE = 267							
ALL OTHER LOADS @ 100% : 65.4 kVA					- MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC												
KITCHEN EQUIP. LOADS @ 65% : 17.2 kVA																	
BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI																	
NOTES:																	

PANEL: "K1"																	
VOLTS/PHASE/WIRE:			PANEL SIZE & TYPE:			MAIN SIZE AND TYPE:			FED FROM:	CABINET:	LOCATION:	NOTES:					
120/208V, 3 PH 4 WIRE			22" W x 6" D, BOLT-ON			200 AMPERE MAIN LUGS			P1	RECESSED	UTILITY ROOM						
ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR AIC RATING: 35,000																	
CKT NO	AMP	POLE	BKR	LOAD (kVA)			PHASE LOAD			DESCRIPTION	LOAD (kVA)			BKR	POLE	AMP	CKT NO
				LTG	PWR	CO	A	B	C		CO	PWR	LTG				
1	20	1		0.0	0.0	0.0				995 - WATER SOFTNER	0.1	0.3					2
3	20	1		0.0	0.0	0.0				300 - UNDERCOUNTER REF		0.3	0.4				4
5	20	1		0.0	0.0	0.0				306 - UNDERCOUNTER REF			0.3	0.8			6
7	20	1		0.0	0.0	0.0				412 - DROP-IN COLD WELLS	0.5	0.6					8
9	20	1		0.0	0.0	0.0				994 - WATER HEATER		0.5	0.4				10
11	20	1		0.0	0.0	0.0				912 - DISPENSER, ICE TEA			1.7	0.8			12
13	20	1		0.0	0.0	0.0				997 - RECEIPT PRINTER	0.5	0.2					14
15	20	1		0.0	0.0	0.0				700A - ICE MACHINE		0.8	0.6				16
17	30	1		0.0	0.0	0.0				304 - REFRIGERATED DISPLAY...			1.9	0.6			18
19	20	2		0.0	1.5	0.0				504 - HEATED CABINET	0.7	0.2					20
21	--	--	--	--	--	--				--			0.7	1.7			22
23	20	1		0.0	0.0	0.0				502 - FOOD WARMER, OVERHEAD			0.8	1.7			24
25	20	1		0.0	0.0	0.0				996 - BAG-IN-BOX	0.9	2.7					26
27	20	1		0.0	0.0	0.7				KITCHEN CO		0.7	2.7				28
29	20	1		0.0	0.2	0.0				HOOD (1)			0.2	0.0			30
31	--	--	--	--	--	--				SPACE (SHUNT TRIP COIL)	--	2.8					32
33	40	2		0.0	0.0	0.0				202B - CONVECTION OVEN		2.7	2.8				34
35	--	--	--	--	--	--				--			2.7	0.4			36
37	20	1		0.0	0.0	0.0				SPARE	0.0	0.8					38
39	20	1		0.0	0.0	0.2				VC POWER		0.2	0.4				40
41	20	1		0.0	0.0	0.0				998 - POS			0.4	0.4			42
43	20	1		0.0	0.0	0.0				911 - BEVERAGE DISPENSER	0.8	0.8					44
45	20	1		0.0	0.0	0.0				998 - POS			0.4	0.4			46
47	20	1		0.0	0.0	1.1				MAKE LINE POWER			1.1	0.2			48
49	20	1		0.0	0.0	0.0				300 - UNDERCOUNTER REF	0.3	--					50
51	20	1		0.0	0.0	0.0				998 - POS			0.4	0.0			52
53	20	1		0.0	0.0	0.0				SPARE			0.0	0.0			54
55	20	1		0.0	0.0	0.0				SPARE	0.0	0.0					56
57	20	1		0.0	0.0	0.0				SPARE (SHUNT TRIP)		0.0	0.0				58
59	20	1		0.0	0.0	0.0				SPARE (GFI)		0.0	0.0				60
<b>TOTALS:</b>				CONNECTED kVA PER PHASE			12	16	14	CONNECTED TOTAL kVA =			42				
				CONNECTED AMPS PER PHASE			101	135	116	AVERAGE CONNECTED AMPS PER PHASE =			116				
<b>NEC DIVERSIFIED LOAD CALCULATIONS</b>																	
LIGHTING & CONTINUOUS LOADS:					- 100% CONNECTED LOAD PLUS 25%					DIVERSIFIED TOTAL kVA = 33							
RECEPTACLES: 3.1 kVA @ 100% = 3.1 kVA					- FIRST 10kVA @ 100%, REMAINDER @ 50%					AVERAGE AMPS PER PHASE = 90							
ALL OTHER LOADS @ 100% : 12.2 kVA					- MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC												
KITCHEN EQUIP. LOADS @ 65% : 17.2 kVA																	
BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI																	
NOTES:																	



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sheet information

revisions:	description	date
1	IFP_ADD-01	03-11-22
2	REVISION 02	04-06-22
4	REV04	06-07-22

date: 1-23-2022

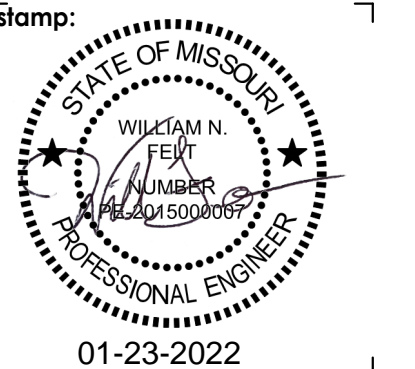
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**SAVORY MANAGEMENT**  
PANEL SCHEDULES

sheet number:

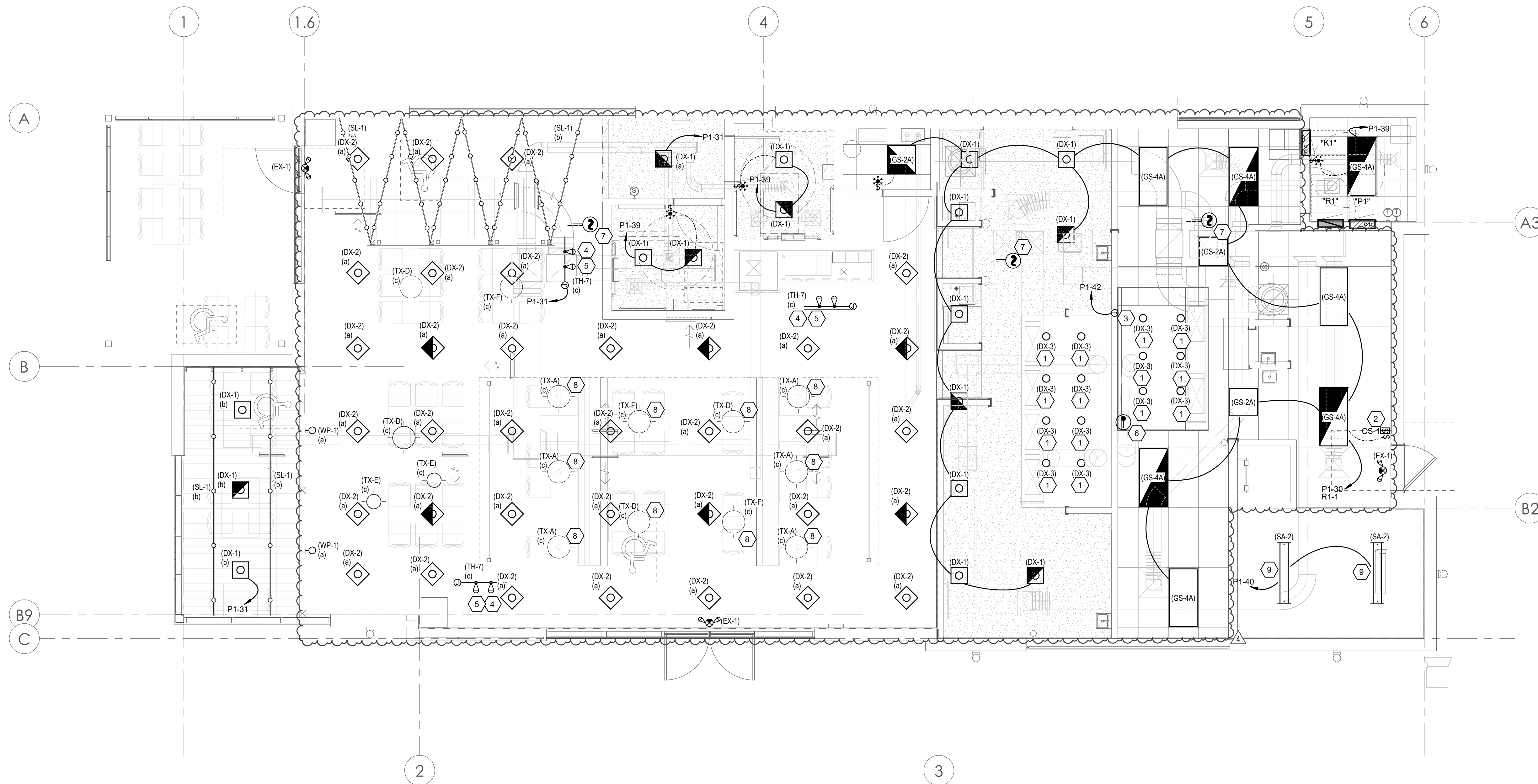
**EP603**

## SHEET KEYNOTES

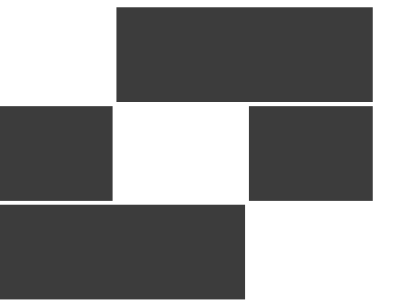
- ELECTRICIAN TO PROVIDE AND INSTALL 15 WATT, 3000K, 1500 LUMEN LED LAMPS FOR USE IN MECHANICAL HOODS. PAINT ON CONDUIT UNDER CANOPY BLACK
- FOUR BUTTON SWITCH "CS-1" TIED TO RELAY PANEL. LABEL SWITCH 1 AS "SERVICE AREA", SWITCH 2 AS "DINING", SWITCH 3 AS "DINING EXHIBITS", AND SWITCH 4 AS "DINING ROOM CANOPY".
- PROVIDE POWER TO ANSUL SYSTEM IF PRESENT.
- PROVIDE 2 AMP CURRENT LIMITING DEVICE FOR ALL TRACK LIGHTING.
- VERIFY WITH INSTALLER THE PLACEMENT OF TRACK LIGHTING OVER ART.
- CONNECT HEAT DETECTOR TO BUILDING FIRE ALARM SYSTEM (IF PRESENT). PROVIDE WITH KEYED REMOTE TEST SWITCH WITH LED INDICATOR LIGHT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. COORDINATE WITH HOOD ANSUL SYSTEM IF PRESENT.
- CONNECT DUCT SMOKE DETECTOR TO BUILDING FIRE ALARM SYSTEM (IF PRESENT). PROVIDE WITH KEYED REMOTE TEST SWITCH WITH LED INDICATOR LIGHT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN
- LIGHT FIXTURE MOUNTED TO UNDER SIDE OF CANOPY. COORDINATE MOUNTING HEIGHT OF FIXTURES WITH ARCHITECT/OWNER. ALL CONDUIT UNDER CANOPY SHALL BE PAINTED TO MATCH CANOPY COLOR.
- WALK-IN COOLER LIGHTING. COORDINATE WITH INSTALLERS.

## GENERAL SHEET NOTES

- RUN UNSWITCHED LEG OF LIGHTING CIRCUIT TO ALL EXIT SIGNS, BATTERY PACKS AND EMERGENCY EGRESS LIGHTING.
- VERIFY ALL EQUIPMENT LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE FINAL CONNECTIONS FOR OWNER SUPPLIED EQUIPMENT.
- SEE ARCHITECTURAL DRAWINGS FOR ALL LIGHTING FIXTURE HEIGHTS AND SPECIALTY PENDANT HEIGHTS.
- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL SEVEN (7) 12 WATT, 3000K, 1575 LUMEN LED LAMPS FOR USE IN MECHANICAL HOODS.
- REPAIR OR REPLACE EXISTING POLE MOUNTED FIXTURES. CONTRACTOR SHALL DISCONNECT EXISTING CIRCUITING FROM EXISTING PANEL(S) AND REROUTE TO NEW PANELS AND CIRCUIT THROUGH NEW LIGHTING CONTROL PANEL. PROVIDE CONDUIT AND CONDUCTORS TO EXTEND CIRCUITING AS NEEDED.
- DEMO ALL EXISTING EXTERIOR BUILDING MOUNTED LIGHT FIXTURES. PROVIDE NEW LIGHT FIXTURES IN LOCATIONS AS SHOWN ON DRAWINGS.
- LIGHTING CONTROL PANEL SHALL BE PROGRAMMED SUCH THAT THE LIGHTING SHALL REMAIN ON WHILE THE SPACE IS OCCUPIED (DURING BUSINESS HOURS) IN ACCORDANCE WITH IFC 1008 (2015).
- EMERGENCY LIGHTING SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE, AND A MINIMUM AT ANY POINT OF 0.1 FOOT-CANDLE MEASURED ALONG THE PATH OF EGRESS AT THE FLOOR LEVEL. IBC 1008.3.5.



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



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sheet information

revisions:	num.	description	date
	2	REVISION 02	04.06.22
	4	REV04	06.07.22

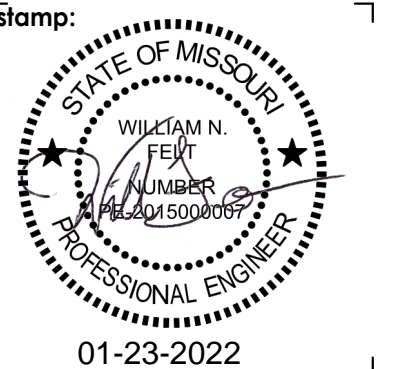
date: 1-23-2022

project number: MO-53LEE

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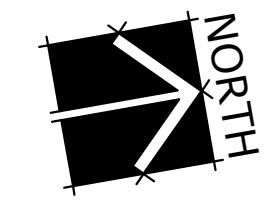
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**SAVORY MANAGEMENT**  
LEVEL 1 LIGHTING PLAN

sheet number:

**EL101**



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revisions: description date

4	REV04	06.07.22
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date: 1-23-2022

project number: MO-53LEE

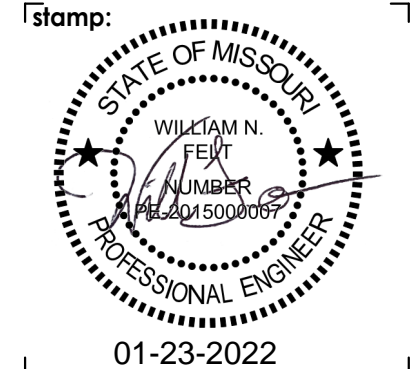
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original drawing is 34" x 36"  
current as of: 6/9/2022 10:48:32 AM

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stamp:



01-23-2022

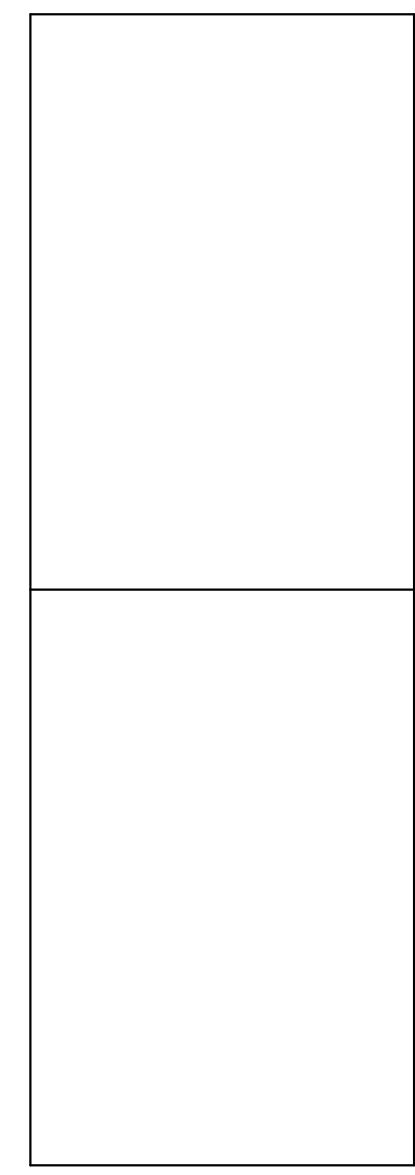
sheet number:

MOBETTAHS (TI) for LEE'S SUMMIT  
520 NW Chipman Rd  
Lee's Summit, MO 64086

SAVORY MANAGEMENT  
RELAY PANEL CUTSHEETS AND SCHEDULE  
sheet title:

sheet number:

# EL501



Catalog Number	Date	Project
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### OVERVIEW

The nLIGHT Relay Panel family delivers cost effective 0-10V dimming and switching for your building design needs. The panel communicates with an nLight network and supports up to 128 digital devices per nLight control zone. Offering a full range of panel sizes, the nLight Relay Panel is ideal for spaces that require full circuit control, with the optional flexibility of configuring single pole relays into a two or three-pole relays in the field.

Also included on each panel is a programmable input that can be connected to a photo-cell, for example, and a separate dry contact "alarm" input that overrides all relays until the contact is released.

**nLIGHT OPERATION**  
The nLight Relay Panel is nLight enabled, meaning it has the ability to communicate over an nLight network. When daisy chain wired with other nLight enabled sensors, power packs, or WallPods™ using CAT5e cabling, an nLight control zone is created. Connecting the panel to an nLight network backbone and nLight™ ECLYPSE™ system controller enables time-based control, remote programming and monitoring from SensorView™ software, and BMS integration capabilities.

The digital time clock (DTC) option allows for on-screen configuration and control of connected devices, while introducing scheduling to standalone panel. When connected to nLight backbone and nLight ECLYPSE system controllers the panels relinquish all time clock functionality.

### FEATURES

- Communicates with an nLight network
- Up to 128 digital devices per nLight control zone - each nLight Relay Panel utilizes 9 device addresses per 8 relays/dimming outputs:
  - 1 address per relay/dimming output
  - 1 address for the programmable input
- All relays include local manual override lever
- All relays are individually programmable
- One 0-10V dimming output per relay
- Create and control up to 32 schedules - Normal & Holiday (DTC version)
- Programmable "dry contact/pull high" input (with provided 24VDC source)
  - Input is programmable to preset/profile scene, photo-sensor signal, wallpod toggle (maintain or momentary)
- Contact input for "alarm" override (requires maintain contact signal)
- All relays communicate with switch/occupancy/photo-cell channel 1 out of the box (programmable through SensorView)
- FCR type relays capable of being field configured to 2 and 3-pole relay configurations with included hardware:
  - 4/8 Relay Panel: 2x2 Pole and 1x3 Pole Hardware Included
  - 12/16 Relay Panel: 4x2 Pole and 2x3 Pole Hardware Included
  - 24/32/48 Relay Panel: 6x2 Pole and 3x3 Pole Hardware Included
- Supplies auxiliary 24VDC power and nLight network bus power (40mA per RJ45 port)
- Removable back plate for ease of installation
- UL 924 panel listing for Switching Emergency Circuits
- Optional field installed voltage barrier(s) for normal/emergency use, or mixed voltage use
- Remotely Configurable/Upgradeable

### Warranty

Five-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/customerresources/terms\\_and\\_conditions](http://www.acuitybrands.com/customerresources/terms_and_conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



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Catalog Number	Date	Project
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### OVERVIEW

The nPDOM xS Series WallPods are single gang nLight enabled devices that provide one, two, and four scene control. These units provide a convenient method of selecting a custom lighting control scene for the room in which it is installed, or requesting a global profile scene be run across several remote zones. By default, however, the buttons of an nPDOM xS are configured as on/off toggle switches. Scenes are programmed to these units utilizing available SensorView software.

The nPDOM xS has soft click push buttons with a green LED indicator for each button. These buttons are field replaceable and can be custom engraved. Two RJ 45 connectors allow the nPDOM xS to be daisy-chain wired with CAT 5e cabling to other nLight network devices.

The nPDOM xSB offers individual on/off buttons for each scene. Pressing the "on" button will reset the expiration time of a scene back to the original programmed time.\*

\*In order to utilize a blink warning, system gateway and additional programming is required. nPDOM xSB WallPods are not recommended for use with "preset" style scenes.

### FEATURES

- Communicates w/ nLight network
- Remotely configurable/upgradeable
- Capable of Programming 4 Different Scene Types
  - Local "Profile" Scene - Modifies the operational configuration of up to 80 devices in the local zone. Stopping scene will revert devices to default settings.
  - Local "Preset" Scene - Modifies on/off levels for up to 16 local switch groups. Exit scene through additional "preset" scene or WallPod control.
  - Global "Profile" Scene - Modifies the operational configuration of any devices on the system. Stopping scene will revert devices to default settings. Scene is stored on the system Gateway, model nGW2v2 KIT.
  - Global "Preset" Scene - Modifies on/off levels for up to 128 global switch groups. Exit scene through additional "preset" scene or WallPod control.
- Explosion timer programmable to each scene
- Programmable to initiate sec. sensor time delay sweep
- "Dynamic" options for custom button names when pairing with Acuity Brands nTUNE features

### Warranty

Five-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/customerresources/terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/customerresources/terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



### ORDERING INFORMATION

Series	# of Scenes	Dimming Control	Dynamic	Color	Temp/Humidity
nPDOM 1SB	1 Scene control (2 buttons)	[blank] Standard	[blank] Standard	WH White	[blank] Standard
nPDOM 2S	2 Scene control (2 buttons)	EDJTW On/Off + pulse/ lower control	EDJTW Tunable White	IV Ivory	LT Low temp
nPDOM 2S(B)	2 Scene control (4 buttons)	GSC	GSC	GY Gray	
nPDOM 4S	4 Scene control (4 buttons)	CSL	COLOR Color control	AL Almond	
nPDOM 4S(B)	4 Scene control (8 buttons)			BK Black	
				RD Red	

Notes:  
1. Available with 2S and 4S versions  
2. Available with 4S and 4S(B) versions  
3. Available with 4S(B) version only

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### SPECIFICATIONS

#### ENCLOSURE DIMENSIONS

Note: Enclosure is NEMA 1 rated

#### 8 Relay Enclosure

- BACKBOX ONLY: 14.25"H x 14.25"W x 4.00"D
- SURFACE MOUNT SCREEN COVER (standard offering): 14.41"H x 14.41"W x 4.05"D
- FLUSH MOUNT SCREW COVER: 15.65"H x 15.65"W x 4.09"D (IN-WALL DEPTH: 4.0")

#### 16 Relay Enclosure

- BACKBOX ONLY: 22.25"H x 14.25"W x 4.00"D
- SURFACE MOUNT SCREEN COVER (standard offering): 22.45"H x 14.45"W x 4.06"D
- FLUSH MOUNT SCREW COVER: 23.65"H x 15.65"W x 4.09"D (IN-WALL DEPTH: 4.0")

#### 32 Relay Enclosure

- BACKBOX ONLY: 32.10"H x 20.13"W x 6.00"D
- SURFACE MOUNT HINGED DOOR w/ KEYLOCK: 32.10"H x 20.13"W x 6.68"D

#### 48 Relay Enclosure

- BACKBOX ONLY: 40.10"H x 20.13"W x 6.00"D
- SURFACE MOUNT HINGED DOOR w/ KEYLOCK: 40.10"H x 20.13"W x 6.68"D

#### Patent

- 10,129,950
- 9,691,578
- 9,368,306

#### RELAYS

\*FCR Type Relays - Field Configurable for 2 Pole and 3 Pole Relays

- Magnetic/Standard Ballast:
  - 40A @ 120-277VAC (Single pole)
  - 40A @ 480VAC (Multi-pole)
- Electronic Ballast:
  - 16A @ 120-277VAC
- Tungsten:
  - 20A @ 120-277VAC
- Horsepower Ratings:
  - 2HP @ 120VAC
  - 3HP @ 240-277VAC
- DC:
  - 20A @ 48VDC
- SCCR:
  - 45KA @ 277/480VAC with:
    - Screw Cover (SC) option for 8 & 16 relay enclosure
    - Hinge Locking (HLK) option for 32 & 48 relay enclosure
  - 14KA @ 277/480VAC with:
    - Hinge Locking (HLK) option for 8 & 16 relay enclosure

#### INPUTS (1 PER 8 RELAYS)

- (1) Programmable Input for contact closure or photo-sensor signal (see photo-sensor accessories above)
- (1) Override input (requires maintained signal)
- 24VDC/200mA auxiliary power available (per 8 relays)
- Connectors accept 16 to 24 AWG wire

#### OUTPUTS

- 0-10V Capable of Class 1 or Class 2 Wiring
- 100mA Sink Per Dimming Output
- Note:
  - Low trim default: 1V adjustable down to 0.7V
  - High trim default: 10V, 10V max
  - Off mode: < 0.7V
- Connectors accept 16 to 24 AWG wire

#### POWER SUPPLY INPUTS

- 120-277VAC
- 347VAC Option
- 50/60 Hz
- Max 0.5 Amps for 8/16 relay enclosure
- Max 1.0 Amp for 32/48 relay enclosure

#### PROGRAMMING

- Via SensorView Software

#### ENVIRONMENT

- Ambient, 8 & 16 relay enclosure: 32-122F (0-50C)
- Ambient, 32 & 48 relay enclosure: 32-113F (0-45C)
- Relative Humidity: 90% non-condensing

#### STANDARDS

- UL and cUL 916 listed
- UL 924 listed (for emergency circuit use)
- UL 2043 (Plenum) Rated for Surface Mount Screw cover "SC SM" option (8 & 16 relay enclosure only)

#### BUS CONNECTOR

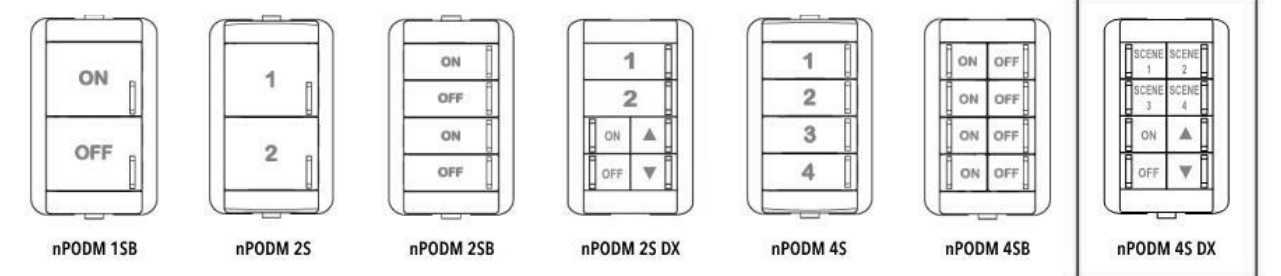
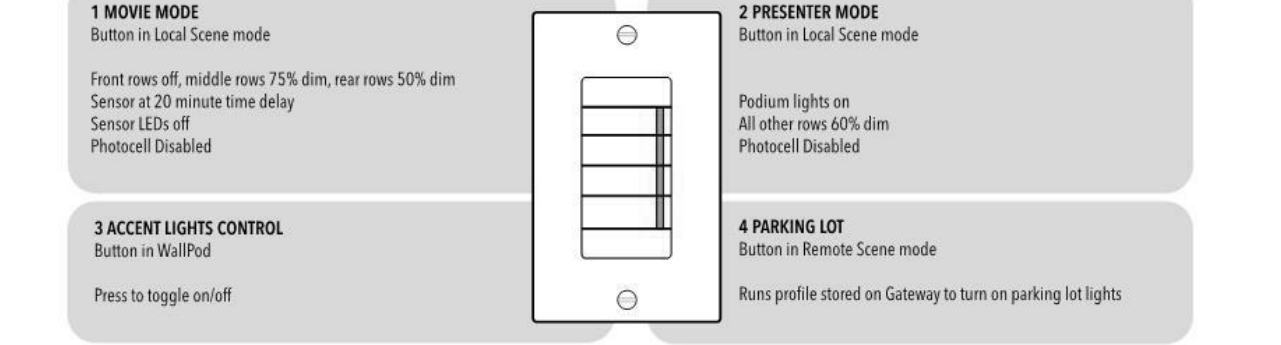
- (2) RJ45 connectors
- 40mA Bus Power per RJ45 (80mA total)

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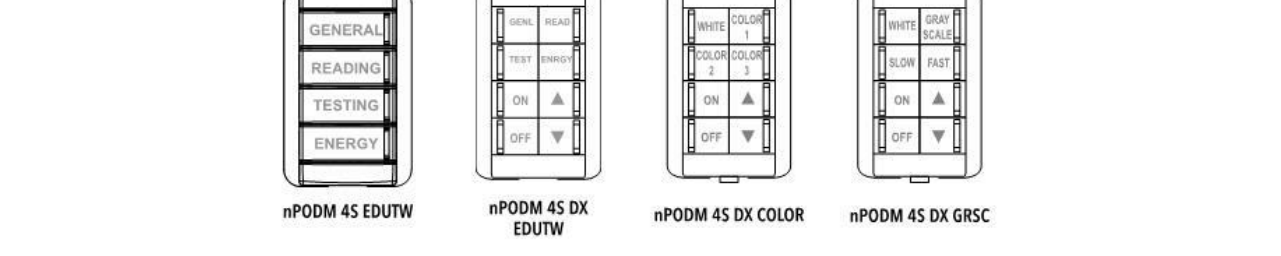
### OVERVIEW

Below is an outline of example scene configurations for the nPDOM 4S. When no local scene is selected, the user configurable device default settings are active.

DEFAULT SETTINGS (example)  
All lights on, dimming photocell enabled  
Sensors at 10 minute time delay & in AUTO ON/AUTO OFF mode



Dynamic wallpods below are paired with Acuity Brands nTUNE features for out of box operation. Reference feature cut sheets for additional details.

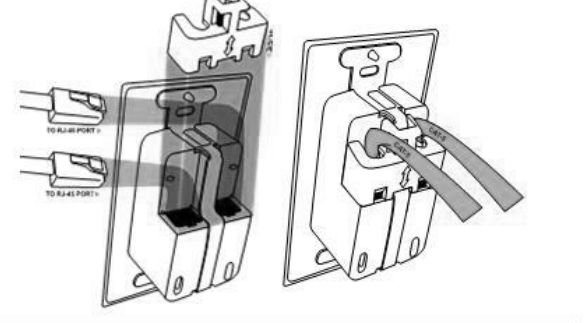


Custom engraved lettering for WH, IV, AL, and GR units can be specified and ordered at: <http://www.acuitybrands.com/imedia/Files/Acuity/Products/Controls/nLight/NGBMFC/2015/150320p01.pdf#11=em>

### INSTALLATION

- Mount WallPod using holes that align with standard single gang switch box or low voltage ring
- Access RJ 45 ports by sliding plastic guard up
- Insert CAT 5e cables (1568B wiring convention recommended)
- Slide guard back onto metal strip
- Interconnect unit with other nLight devices in lighting zone using CAT 5e cables
- Once power is received via CAT 5e connection, all devices in zone will automatically begin functioning together according to respective device's defaults

Attention! Only use non-booted CAT5e cables.



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### RELAY PANEL: R1

(RELAY PANEL TO HAVE INTERNET BASE REMOTE CAPABILITY WITH A SUPPORTED WEB BASE CONTROL INTERFACE WITH ASSOCIATED ANDROID & APPLE APPLICATIONS)

CONTROL SCHEDULE LOCATION: UTILITY ROOM

RELAY#	DESCRIPTION	LOCATION	BRANCH	LOAD (WATTS)	CNTL SWITCH	OCC SENSOR	TIME CLOCK GROUP	PHOTOCELL
1	SERVICE AREA MOUNTED BUILDING LIGHTING	KITCHEN	P1-30	700	CS1		2B	
2	OPEN / CLOSE SIGN	EXTERIOR BUILDING	P1-38	750			1	
3	OPEN / CLOSE SIGN	DINING ROOM	P1-23	1400			1	
4	OPEN / CLOSE SIGN	DINING ROOM	P1-24	1400			1	
5	EF-4	ROOF (SERVES RESTROOMS)	P1-12	100			1	
6	BUILDING SIGNAGE	EXTERIOR	P1-14	500			3	
7	SITE LIGHTING	EXTERIOR	P1-41	1400			3	
(a)	GENERAL DINING	DINING ROOM AREA	P1-31	400	CS1		2	
(b)	DINING FESTOONS	DINING ROOM AREA	P1-31	20	CS1		2	
(c)	DINING WICKER PENDANTS	DINING ROOM AREA	P1-31	30	CS1		2	

- NOTES:
- TIME CLOCK GROUPS -
    - 1 - TIME CLOCK OR MANUAL ON, TIME CLOCK OFF (Mon-Sat): ON 10:30am/OFF 9:00pm, (Sunday): OFF
    - 2 - MANUAL ON, TIME CLOCK OFF (Everyday): MANUAL ON (AUTO ON Disabled)/OFF 10:00pm; PHOTOCCELL DIMMABLE
    - 2B - MANUAL ON, TIME CLOCK OFF (Everyday): MANUAL ON (AUTO ON Disabled)/OFF 10:00pm TO SUNSET, OFF AT 15 MIN PRIOR TO SUNRISE.
    - 3 - TIE TO BUILDING SHELL CONTROL PANEL, IF ONE DOESN'T EXIST: EVERY DAY ON AT 15 MIN PRIOR TO SUNSET, OFF AT 15 MIN PRIOR TO SUNRISE.
  - PHOTOCCELL ON/PHOTOCCELL OFF

2. TIME CLOCK SETTINGS SHALL BE VERIFIED BY OWNER PRIOR TO COMMISSIONING. PROGRAMMING MUST BE COMPLETED BY A TECHNICIAN APPROVED BY THE MANUFACTURER. ELECTRICIAN IS RESPONSIBLE FOR SCHEDULING ON SITE MEETING.
3. REFER TO DRAWINGS FOR LOCATIONS AND QUANTITIES OF MASTER SWITCHES.
4. PROVIDE DIMMING CARDS FOR DIMMABLE CIRCUITS

### RELAY PANEL SCHEDULE

6" = 1'-0"

SPECTRUM ENGINEERS  
324 S. State St., Suite 400  
Salt Lake City, UT 84111  
800-678-7077  
801-328-5151  
fax: 801-328-5155  
[www.spectrum-engineers.com](http://www.spectrum-engineers.com)

COMcheck Software Version 4.1.5.2  
Interior Lighting Compliance Certificate

Project Information  
Energy Code: 2018 IECC  
Project File: Mobettahs Lees Summit, MO  
Project Type: New Construction

Construction Site: 520 NW Chipman Rd, Lee's Summit, MO 64086  
Owner/Agent: BABCOCK DESIGN, 52 EXCHANGE PLACE, SALT LAKE CITY, UT 84111  
Designer/Contractor: Michael Rackrell, Spectrum Engineers, 248 S State Street, Salt Lake City, UT 84111

Additional Efficiency Package(s):  
Control: 1.0 (Required), 1.0 (Optional)  
Reduced Lighting Power: 1.0 credit

Allowed Interior Lighting Power		B		C		D	
Area Category		Floor Area (sq ft)	Allowed Watts / sq ft	Floor Area (sq ft)	Allowed Watts / sq ft	Floor Area (sq ft)	Allowed Watts / sq ft
1. Dwelling Family		2792	0.70	1932			
Total Allowed Watts =							1551

Proposed Interior Lighting Power		B		C		D		E	
Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast	Lamp / Fixture	# of Fixtures	Fixture Watt	Fixture Watt	Fixture Watt	Fixture Watt	Fixture Watt	Fixture Watt	Fixture Watt
1. Dwelling Family									
LED 1 (DX-1) DOWNLIGHT, LED A Lamp 2.9W		1	8	10	83				
LED 2 (DX-2) PENDANT DOWNLIGHT, LED A Lamp 2.9W		1	36	18	630				
LED 3 (DX-3) HOOD DOWNLIGHT, LED A Lamp 3W		1	14	10	140				
LED 4 (GS-4A) 2x4 TROFFER, LED Panel 19W		1	3	45	135				
LED 5 (GS-2A) 2x2 TROFFER, LED Panel 19W		1	2	39	78				
LED 6 (GS-4B) 2x4 TROFFER, LED Panel 19W		1	8	52	416				
LED 7 (GS-2A) 2x2 TROFFER, LED Panel 19W		1	2	45	90				
Track lighting 1 (TH-7) TRACK LIGHTING, Wattage based on low-voltage transformer capacity		0	0	30	30				
LED 8 (TX-A) METAL PENDANT, LED A Lamp 12W		1	4	12	72				
LED 9 (TX-E) PENDANT LAMP, LED A Lamp 12W		1	4	10	40				
LED 10 (TX-E) PENDANT LAMP, LED A Lamp 12W		1	2	10	20				
LED 11 (TX-F) PENDANT LAMP, LED A Lamp 12W		1	2	10	20				
LED 12 (WP-1) PENDANT LAMP, LED A Lamp 12W		1	2	12	24				
LED 13 (SL-1) FESTOON LIGHTING, Other		1	2	36	72				
Total Proposed Watts =									1887

Project Title: Mobettahs Lees Summit, MO  
Data filename: P:\2021\12106092\Design\COMcheck\Mobettahs Lees Summit MO Elec COMcheck.ccx  
Report date: 01/24/2022  
Page: 1 of 8

Interior Lighting PASSES: Design 2% better than code

Interior Lighting Compliance Statement  
Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.2 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

MICHAEL FACKRELL - PROJECT MANAGER  
Signature: [Signature]  
Date: 01/24/2022

Project Title: Mobettahs Lees Summit, MO  
Data filename: P:\2021\12106092\Design\COMcheck\Mobettahs Lees Summit MO Elec COMcheck.ccx  
Report date: 01/24/2022  
Page: 2 of 8

COMcheck Software Version 4.1.5.2  
Exterior Lighting Compliance Certificate

Project Information  
Energy Code: 2018 IECC  
Project File: Mobettahs Lees Summit, MO  
Project Type: New Construction  
Covered Lighting Zone: 2 (Residential mixed use area (L2))

Construction Site: 520 NW Chipman Rd, Lee's Summit, MO 64086  
Owner/Agent: BABCOCK DESIGN, 52 EXCHANGE PLACE, SALT LAKE CITY, UT 84111  
Designer/Contractor: Michael Rackrell, Spectrum Engineers, 248 S State Street, Salt Lake City, UT 84111

Allowed Exterior Lighting Power		B		C		D		E	
Area/Surface Category	Quantity	Allowed Watts / Unit	Tradeoff Watts	Allowed Watts	Tradeoff Watts	Allowed Watts	Tradeoff Watts	Allowed Watts	Tradeoff Watts
Parking area	23000 sq ft	0.04	Yes	920					
Total Tradeoff Watts (a) =				920					
Total Allowed Watts =				920					
Total Allowed Supplemental Watts (b) =				400					

(a) Wattage tradeoffs are only allowed between tradeable areas/surfaces.  
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradeable and tradeable areas/surfaces.

Proposed Exterior Lighting Power		B		C		D		E	
Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast	Lamp / Fixture	# of Fixtures	Fixture Watt	Fixture Watt	Fixture Watt	Fixture Watt	Fixture Watt	Fixture Watt	Fixture Watt
Parking area (23000 sq ft, Tradeoff Wattage)									
LED 1 (TX-1) ROUND 3-DIRECTIONAL WALL MOUNT, Other		1	8	45	360				
LED 2 (TX-1) CANYON LUMINAIRE, Other		1	3	27	81				
LED 3 (TX-1) CANYON LUMINAIRE, Other		1	6	125	750				
LED 4 (TX-2) DEKO LED P1 40W BULB MOUNT, Other		1	1	125	125				
LED 5 (TX-2) DEKO LED P1 40W BULB MOUNT, Other		1	1	125	125				
Total Tradeoff Proposed Watts =					1316				

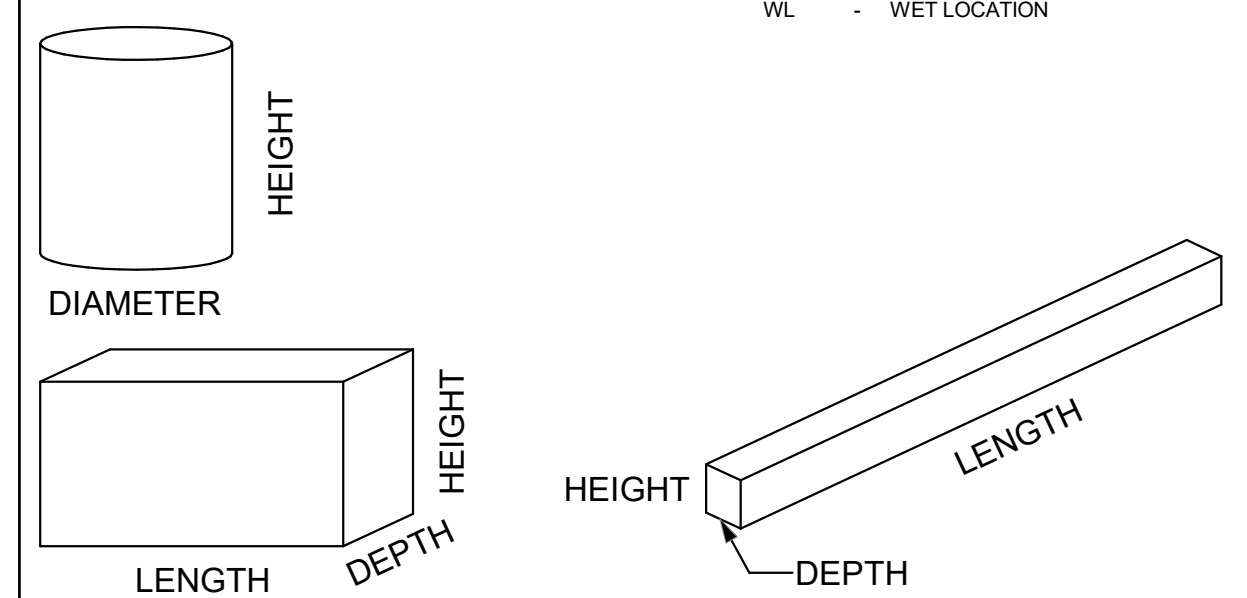
Exterior Lighting PASSES: Design 0.3% better than code

Exterior Lighting Compliance Statement  
Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.2 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

MICHAEL FACKRELL - PROJECT MANAGER  
Signature: [Signature]  
Date: 01/24/2022

Project Title: Mobettahs Lees Summit, MO  
Data filename: P:\2021\12106092\Design\COMcheck\Mobettahs Lees Summit MO Elec COMcheck.ccx  
Report date: 01/24/2022  
Page: 3 of 8

ABBREVIATIONS		GENERAL NOTES	
<b>MOUNTING</b>	<b>LUMINAIRE OPTIONS</b>	<b>FINISH</b>	<b>DIFFUSER/LENS</b>
B - BASE C - CEILING F - FLANGE G - GRID P - PENDANT PL - POLE R - RECESSED S - SURFACE W - WALL	ARRR - AIR RETURN AND HEAT REJECTION DL - DAMP LOCATION EQC - EARTHQUAKE CLIPS F - FUSING HLD - HINGED AND LATCHED DOOR HS - HOUSE SIDE SHIELD PS - PHOTOCELL SWITCH QRS - QUARTZ RESTRIKE ST - STAIAC WG - WIRE GUARD WL - WET LOCATION	MW - MATTE WHITE BL - BLACK SL - SILVER GL - GOLD CL - CLEAR PW - PAINTED WHITE EA - EXTRUDED ALUMINUM S - STEEL GS - GALVANIZED STEEL C - CAST CBA - COLOR BY ARCHITECT SCBA - STANDARD COLOR BY ARCHITECT CCA - CUSTOM COLOR BY ARCHITECT FS - MEETS FEDERAL STANDARD 209D TP - THERMALLY PROTECTED FL - FLUSH R - REGRESS M - MITERED	#A - ACRYLIC #THICK #OA - ACRYLIC #THICK (OPAL) GC - GLASS (CLEAR) GO - GLASS (OPAL) GF - GLASS (FROSTED) SGL - SOFT GLOW LENS HPL - HIGH PERFORMANCE LENS DO - DROP OPAL DGL - CONVEX GLASS LENS S - SATIN LENS
			<b>REFLECTOR</b>
			OP - NONE/OPEN SP - SPECULAR SS - SEMI-SPECULAR D - DIFFUSE (WHITE ENAMEL) SC - SPECULAR (COLORED) PR - PRISMATIC FDR - FULL DEPTH REFLECTOR DS - DIFFUSE (SEMI SPECULAR) SILVER LI - LOW IRIDESCENT IR - IRIDESCENT SL - SILVER GL - GOLD CA - CLEAR ALZAK
			<b>NOTES</b>
			1. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. 2. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. 3. SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING, THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING. 4. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES. 5. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION. 6. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. 7. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS. 8. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS. 9. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.



LIGHTING FIXTURE SCHEDULE - INTERIOR													
ID	Type Image	LUMINAIRE TYPE	MOUNTING	LAMP TYPE	LAMP COLOR	BALLAST CONFIGURATION	VOLTAGE	CONNECTION WATTS	OPTICS LUMINAIRE LUMENS	OPTIONS	MANUFACTURER (CATALOG SERIES)		
											OPTION 1	OPTION 2	OPTION 3
(DX-1)		LED DOWNLIGHT, 0-10V DIMMABLE, SELF FLANG; PROVIDE WITH UL 924 LISTED EMERGENCY BATTERY BACKUP AS INDICATED ON DRAWINGS. MAXIMUM RECESS DEPTH 7", WHITE FINISH	CR	LED	3000K	LED DRIVER (0-10V DIMMING)	120/277	10	1000		LITHONIA (LDN6 30/10 L06WR MVOLT GZ10)		
(DX-2)		ILLUMINATION CYLINDER PENDANT, PROVIDE WITH UL 924 LISTED EMERGENCY BATTERY BACKUP AS INDICATED ON DRAWINGS. WHITE FINISH	CP	LED	3000K	LED DRIVER (0-10V DIMMING)	120/277	18	1500		LITHONIA (LDN4CYL 30/15 L04WR MVOLT GZ10)		
(DX-3)		HOOD LIGHT REPLACEMENT BULB. (PROVIDE AS REQUIRED BY HEALTH DEPARTMENT TO MAINTAIN FOOT CANDLE REQUIREMENTS UNDER HOOD - 50 FC)		LED	3000K		120/277	15	1500				
(EX-1)		COMBO EMERGENCY DIE-CAST ALUMINUM LED EXIT SIGN, WITH 2 LED LAMPS, SINGLE FACE, RED LETTERS, WHITE BACKGROUND BRUSHED ALUMINUM FINISH, NICKEL-CDMIUM BATTERY, CEILING/BACK MOUNTING		LED			120/277	26	0		LITHONIA (LHGM-LED-R-M6)		
(GS-2A)		2x2 LED RECESSED LENSED TROFFER, 0.125" THICK PATTERN #12 ACRYLIC LENS, FLUSH STEEL DOOR WITH MITERED CORNERS; MAXIMUM 3-1/4" FIXTURE DEPTH; PROVIDE WITH UL 924 LISTED EMERGENCY BATTERY BACKUP AS INDICATED ON DRAWINGS.	CG	LED	3000K	LED DRIVER (0-10V DIMMING)	120/277	39	4400		LITHONIA (CPANL 2X4 24/33/44 LM 35K M4)		
(GS-4A)		2x4 LED RECESSED LENSED TROFFER, 0.125" THICK PATTERN #12 ACRYLIC LENS, FLUSH STEEL DOOR WITH MITERED CORNERS; MAXIMUM 3-1/4" FIXTURE DEPTH; PROVIDE WITH UL 924 LISTED EMERGENCY BATTERY BACKUP AS INDICATED ON DRAWINGS.	CG	LED	3000K	LED DRIVER (0-10V DIMMING)	120/277	52	6000		LITHONIA (CPANL 2X4 40/50/60 LM 35K M2)		
(SA-2)		LED STRIP; VAPOR TIGHT; COORDINATE WITH WALK-IN INSTALLER, SCBA	CS	LED	3500K	LED DRIVER (0-10V DIMMING)	120/277	41	5000		LITHONIA (CSVT L48 5000LM MVOLT 35K 80CRI SCBA)	OR APPROVED EQUAL	
(SL-1)		LED FESTOON LIGHTING; 12" LAMP SPACING; CLEAR GLOBE; BLACK CABLE; PROVIDE WITH DURALED TECN VINTAGE G25 BULBS		LED	2200K			216	16560		TARGETTI DURALED CABLE LIGHT (DLD-CL-MD-12-BK-G25)	OR APPROVED EQUAL	
(TH-7)		LED TRACK HEAD, ELV DIMMING; WIDE FLOOD OPTICS, 0-10V DIMMING, WHITE FINISH	CP	LED	3000K		120/277	15	1073		JUNO (T381L-30K-80CRI-PDIM-FL-WH)	HALO L65X-MB-LC901CB120	CONTECH LT-X-B / LA-23-RN-B / REG-I-B
(TX-A)		18" DIAMETER METAL PENDANT, PROVIDE WITH DIMMABLE CLEAR BULB, YELLOW FINISH					120	12	0		CDS LIGHTING (DODSON-B-YW-BLANK-USV)		
(TX-D)		18" DIAMETER PEDANT LAMP, PROVIDE WITH DIMMABLE LED BULB, NATURAL FINISH	CP	LED	3000K		120	60	900		KOUBOO (WICKER BALL PENDANT LAMP)		
(TX-E)		11.5" DIAMETER PENDANT LAMP, PROVIDE WITH 60 WATT CLEAR BULB					120	60	0		KOUBOO (WICKER POD PENDANT LAMP)		
(TX-F)		18" DIAMETER PENDANT LAMP, PROVIDE WITH CLEAR DIMMABLE LED BULB, NATURAL FINISH	CP	LED	3000K		120	60	900		KOUBOO (WICKER PEAR-SHAPED PENDANT LAMP)		
(WP-1)		12" DIAMETER ALUMINUM DECORATIVE BARN LIGHT, PROVIDE WITH DIMMABLE LED BULB	WS	LED	3000K		120	75	1100		GENERATION LIGHTING (8637401-12; MEDIUM ONE LIGHT OUTDOOR WALL LANTERN)		

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**SAVORY MANAGEMENT**  
Interior Lighting Fixture Schedule  
sheet title:

sheet number:  
**EL601**



# LIGHTING FIXTURE SCHEDULE

## ABBREVIATIONS

### MOUNTING

B - BASE  
C - CEILING  
F - FLANGE  
G - GRID  
P - PENDANT  
PL - POLE  
R - RECESSED  
S - SURFACE  
W - WALL

### LUMINAIRE OPTIONS

ARHR - AIR RETURN AND HEAT REJECTION  
DL - DAMP LOCATION  
EQC - EARTHQUAKE CLIPS  
F - FUSING  
HLD - HINGED AND LATCHED DOOR  
HS - HOUSE SIDE SHIELD  
PS - PHOTOCELL SWITCH  
QRS - QUARTZ RESTRIKE  
ST - STATIC  
WG - WIRE GUARD  
WL - WET LOCATION

### FINISH

MW - MATTE WHITE  
BL - BLACK  
SL - SILVER  
GL - GOLD  
CL - CLEAR  
PW - PAINTED WHITE  
EA - EXTRUDED ALUMINUM  
S - STEEL  
GS - GALVANIZED STEEL  
C - CAST  
CBA - COLOR BY ARCHITECT  
SCBA - STANDARD COLOR BY ARCHITECT  
CCA - CUSTOM COLOR BY ARCHITECT  
FS - MEETS FEDERAL STANDARD 209D  
TP - THERMALLY PROTECTED  
FL - FLUSH  
R - REGRESS  
M - MITERED

### DIFFUSER/LENS

#A - ACRYLIC #THICK  
#OA - ACRYLIC #THICK (OPAL)  
GC - GLASS (CLEAR)  
GO - GLASS (OPAL)  
GF - GLASS (FROSTED)  
SGL - SOFT GLOW LENS  
HPL - HIGH PERFORMANCE LENS  
DO - DROP OPAL  
COL - CONVEX GLASS LENS  
S - SATIN LENS

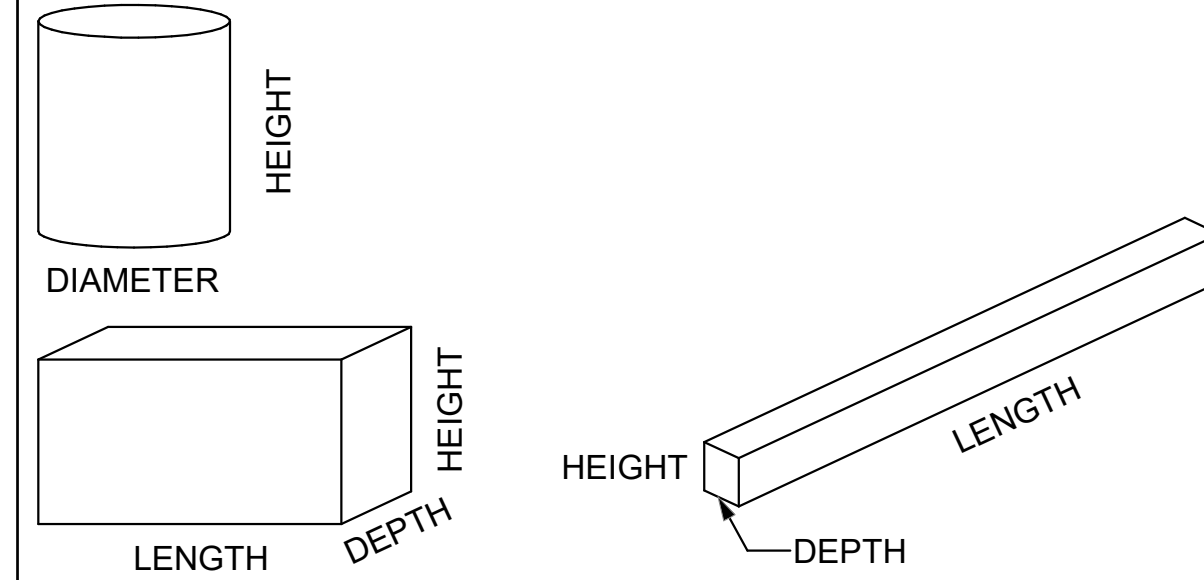
### REFLECTOR

OP - NONE/OPEN  
SP - SPECULAR  
SS - SEMI-SPECULAR  
D - DIFFUSE (WHITE ENAMEL)  
SC - SPECULAR (COLORED)  
PR - PRISMATIC  
FDR - FULL DEPTH REFLECTOR  
DS - DIFFUSE (SEMI SPECULAR) SILVER  
LI - LOW IRIDESCENT  
IR - IRIDESCENT  
SL - SILVER  
GL - GOLD  
CA - CLEAR ALZAK

### NOTES

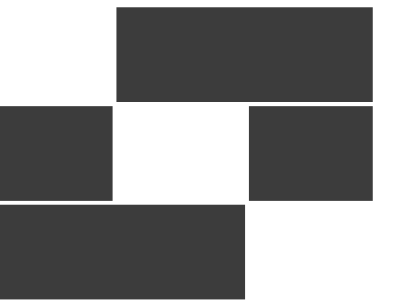
## GENERAL NOTES

- PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER.
- CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.
- SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING, THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING.
- SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES.
- ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION.
- VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
- COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS.
- REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS.
- ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.



### LIGHTING FIXTURE SCHEDULE - EXTERIOR

ID	Type Image	LUMINAIRE TYPE	MOUNTING	LAMP		BALLAST		OPTICS		MANUFACTURER (CATALOG SERIES)				
				TYPE	LAMP COLOR	CONFIGURATION	VOLTAGE	CONNEC TED WATTS	LUMINAIRE LUMENS	OPTIONS	OPTION 1	OPTION 2	OPTION 3	
(CP-1)		CANOPY LUMINAIR	CS	LED	4000K	LED DRIVER (0-10V DIMMING)	120/277	27	3500			LITHONIA (CNY LED P0-40K)	OR APPROVED EQUAL	
(OC-32)		TRAPEZOID EXTERIOR WALL PACK, TYPE III OPTICS, B1-U0-G1; PROVIDE WITH UL 924 LISTED EMERGENCY BATTERY BACKUP	WS	LED	4000K		120/277	20	1500			LITHONIA (WST LED SERIES)		
(TX-1)		ROUND 2-DIRECTIONAL WALL MOUNT LED FIXTURE; IP64 RATED;	WS	LED	3500K	LED DRIVER (0-10V DIMMING)	120/277	45	2000			LITON (WD2340-B-15-BD45-BUWW-UE-DUN-T35)		
(ZX1)		MODERN STYLE, LED POLE LIGHT, CUTOFF SINGLE HEAD	PL	LED	4000K	LED DRIVER (0-10V DIMMING)	120/277	125	14182			LITHONIA (DSX0-P4-40K-BLC)	BEACON (VP-L)	COOPER LIGHTING (GALLEON LED)
(ZX5)		MODERN STYLE, LED POLE LIGHT, CUTOFF SINGLE HEAD	PL	LED	4000K	LED DRIVER (0-10V DIMMING)	120/277	125	14182			LITHONIA (DSX1-P4-40K-T4M)	BEACON (VP-L)	COOPER LIGHTING (GALLEON LED)



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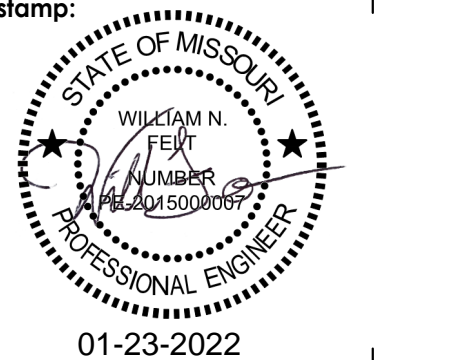
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**SAVORY**  
MANAGEMENT  
sheet title:  
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