



Frankenmuth[®]

INSURANCE

Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

List of Drawings

Cover

ARCHITECTURAL

- AR.0 Architectural Reference Information
- LS0.1 Building and Code Information and First Floor Composite Life Safety Plan
- A1.1 First Floor Demolition Plan
- A1.1A First Floor Demolition Reflected Ceiling Plan
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- A3.1 First Floor Reflected Ceiling Plan
- A3.2 Enlarged Board Room Reflected Ceiling Plan
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- A8.1 Interior Elevations
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- A9.3 Interior Sections and Details
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- A10.1 First Floor - Finish Plan
- F2.1 First Floor Furniture Plan

MECHANICAL

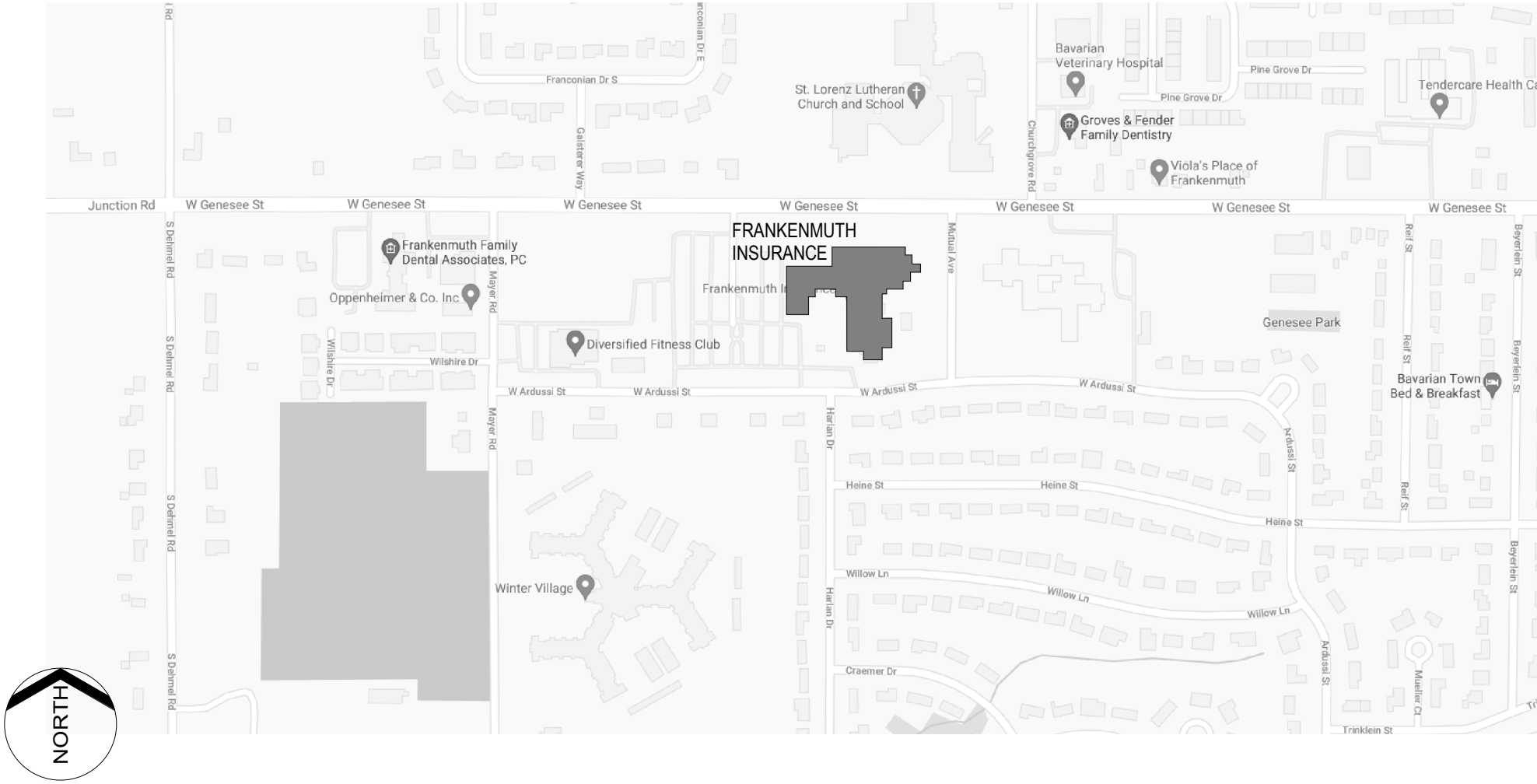
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Site Map

Refer to Drawing LS0.1 for Code Information



Registration Seal

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Design Development 02-26-2021
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[illegible]

SECTION OR DETAIL TITLE

SECTION OR DETAIL IDENTIFICATION
DETAIL SCALE

SECTION OR DETAIL LOCATOR

SECTION OR DETAIL IDENTIFICATION
SHEET WHERE DETAIL IS REFERENCED OR CUT

BUILDING SECTION LOCATOR

BUILDING SECTION IDENTIFICATION
SHEET WHERE BUILDING SECTION IS DRAWN

EXTERIOR WALL SECTION LOCATOR

WALL SECTION IDENTIFICATION
SHEET WHERE WALL SECTION IS DRAWN

LARGE SCALE PLAN OR DETAIL

PLAN OR DETAIL IDENTIFICATION
SHEET WHERE PLAN OR DETAIL IS DRAWN

INTERIOR ELEVATION SYMBOL

ELEVATION IDENTIFICATION
SHEET WHERE ELEVATION IS DRAWN

EXTERIOR ELEVATION SYMBOL

ELEVATION IDENTIFICATION
SHEET WHERE ELEVATION IS DRAWN

MATERIAL KEYNOTE

PROJECT MANUAL SECTION IDENTIFICATION

ROOM NAME AND NUMBER

ROOM NAME
ROOM FLOOR
BUILDING OR UNIT (IF ANY)

PARTITION TYPE

PARTITION TYPE IDENTIFICATION (REFER TO FLOOR PLAN)

DOOR NUMBER

BUILDING OR UNIT (IF ANY)
ROOM FLOOR
EXISTING DOOR
NEW DOOR

[illegible]

Architectural Reference Information

CODE INFORMATION

APPLICABLE CONSTRUCTION CODES AND STANDARDS

Building:	Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, 2015 Michigan Building Code, Incorporating the 2015 Edition of the International Building Code as referenced by the 2015 Michigan Rehabilitation Code for Existing Buildings
Barrier Free:	Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, 2015 Michigan Rehabilitation Code for Existing Buildings, Incorporating the 2015 Edition of the International Existing Building Code Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, 2009 ICC A117.1 - Accessible and Usable Buildings and Facilities U.S. Department of Justice and Architecture and Transportation Barriers Compliance Board, American with Disabilities Act (ADA) 2010 - Standards for Accessible Design
Energy:	Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, Part 10a - Michigan Energy Code for Buildings and Structures, Not Including Residential Buildings, Incorporating the 2013 Edition of the ANSI/ASHRAE/IESNA Standard 90.1
Structural:	Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, 2015 Michigan Building Code, Incorporating the 2015 Edition of the International Building Code
Mechanical:	Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, Mechanical Division, 2015 Michigan Mechanical Code, Incorporating the 2015 Edition of the International Mechanical Code
Plumbing:	Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, Plumbing Division, 2015 Michigan Plumbing Code, Incorporating the 2015 Edition of the International Plumbing Code
Fire Protection:	Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, 2015 Michigan Building Code, Incorporating the 2013 Edition of NFPA 13 - Installation of Sprinkler Systems
Electrical:	Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, Electrical Division, 2017 Michigan Electrical Code, Incorporating the 2017 Edition of the National Electrical Code
Fire Alarm:	Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, Electrical Division, Incorporating the 2013 Edition of NFPA 72 - National Fire Alarm and Signaling Code

BUILDING INFORMATION

SINGLE USE AND OCCUPANCY

Type of Construction		MBC	NFPA
Occupancy Group		B	--
Tabular Building Area (MBC Table 506.2) (A)	NS S (1 or M)	23,000 SF story 69,000 SF story	
Frontage Increase (MBC Section 506.3) (F)		0.75	
Building Perimeter that fronts a public way or open space		2,110 feet	
Perimeter of entire building		2,110 feet	
Width of public way or open space		30 feet	
Allowable Area (Aa)	Non-sprinklered Fully Sprinklered	40,250 SF story 86,250 SF story	
Project Floor Area	Existing	Proposed	Level 2 Alteration
Lower Level	89,036 SF	0 SF	0 SF
First Floor	71,316 SF	40 SF	3,371 SF 5%
Second Floor	16,774 SF	0 SF	0 SF
Sub-total	177,126 SF	40 SF	3,371 SF 2%
Tabular Allowable Building Height (MBC Table 504.3)		MBC	
Tabular Story Limitations (MBC Table 504.4)		75 Feet 4 Stories above grade plane	
Project Building Height		31 Feet	
Project Number of Stories above grade plane		2 Stories above grade plane	

LEGEND

LIFE SAFETY
NOTE: NOT ALL SYMBOLS MAY BE USED

EXIT	EXIT CAPACITY / TABULAR OCCUPANT LOAD
000/000	
---	1-HR FIRE-RATED PARTITION
- - -	2-HR FIRE-RATED PARTITION
---	3-HR FIRE-RATED PARTITION
.....	SMOKE TIGHT PARTITION
[Pattern]	AREA OF LEVEL 2 ALTERATION



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Key Plan



Project Administrator	
Administrator	
Project Designer	
K. Litwin/T. Easthope	
Project Architect / Engineer	
K. Marshall	
Drawn By	
K. Marshall	
Q.M. Review	
N. LaForest	
Approved	
B. Sundberg	
Drawing Scale	
1/16" = 1'-0"	

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Building and Code Information and First
Floor Composite Life Safety Plan

103 Project Number Drawing Number

20120-2000

LS0.1

GENERAL NOTES

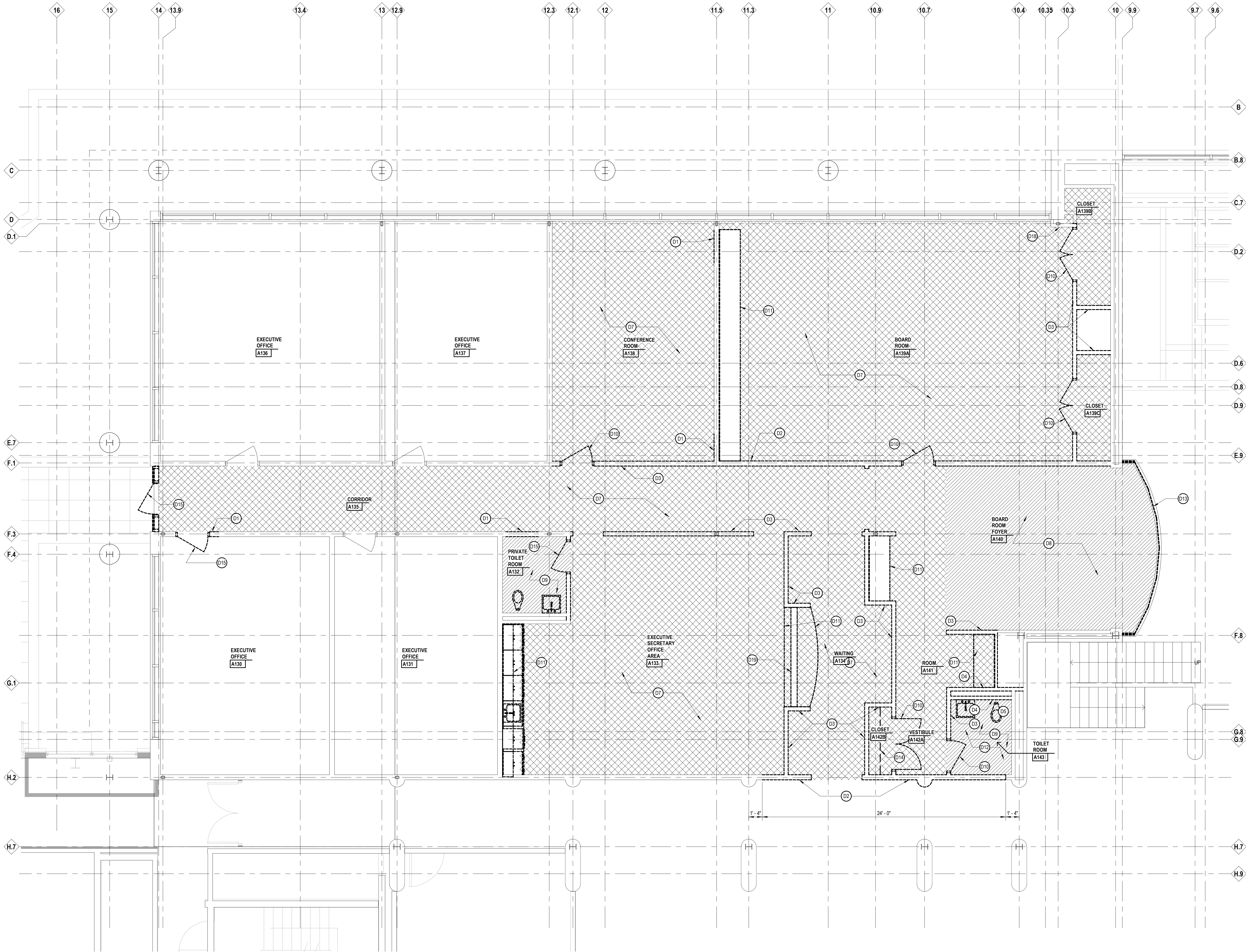
- DEMOLITION PLAN
- A. ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLAN. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS AS REQUIRED TO FACILITATE NEW CONSTRUCTION.
- B. CONTRACTOR SHALL PROVIDE TEMPORARY DUSTPROOF PARTITIONS WITH DOORS AT LOCATIONS INDICATED AND/OR AS REQUIRED TO ADEQUATELY SEPARATE OCCUPIED AREAS FROM CONSTRUCTION HAZARDS, NOISE AND/OR DUST. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE ALL LOCATIONS WITH ARCHITECT'S/OWNER'S REPRESENTATIVE.
- C. CONTRACTOR SHALL PROVIDE DUST MATS AT ALL CONSTRUCTION AREA ENTRANCES AND EXIT LOCATIONS. COORDINATE ALL LOCATIONS WITH ARCHITECT'S/OWNER'S REPRESENTATIVE.
- D. CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL MEANS OF EGRESS AND ALL FIRE PROTECTION FEATURES FOR PORTIONS OF THE BUILDING THAT REMAIN OCCUPIED DURING CONSTRUCTION.
- E. COORDINATE SCOPE AND EXTENT OF DEMOLITION WITH NEW WORK PLANS AND DETAILS.
- F. REFER TO MECHANICAL AND ELECTRICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.

LEGEND

- DEMOLITION PLAN
NOTE: NOT ALL SYMBOLS MAY BE USED
- EXISTING TO BE REMOVED
- EXISTING TO REMAIN
- EXISTING ACOUSTIC LAY-IN CEILING TO BE REMOVED AS NOTED BY KEYNOTE
- EXISTING FLOORFINISH TO BE REMOVED AS NOTED BY KEYNOTE
- EXISTING CARPETING/FINISH TO BE REMOVED AS NOTED BY KEYNOTE

KEYNOTES

- DEMOLITION PLAN
SHADED ITEMS HAVE BEEN REVISED FROM PREVIOUS
NOTE: NOT ALL KEYNOTES MAY BE USED
- LEGEND SYMBOL INDICATOR
- D1 REMOVE PORTION OF GYPSUM BOARD / METAL STUD PARTITION. COORDINATE WITH NEW WORK PLANS
- D2 REMOVE GYPSUM BOARD / METAL STUD PARTITION TO UNDERSIDE OF STRUCTURE (2+1 LAYERS OF GYPSUM BOARD)
- D3 REMOVE GYPSUM BOARD / METAL STUD PARTITION TO UNDERSIDE OF STRUCTURE (1+1 LAYERS OF GYPSUM BOARD)
- D4 REMOVE GYPSUM BOARD / METAL STUD PARTITION TO UNDERSIDE OF STRUCTURE (1 LAYER OF GYPSUM BOARD)
- D5 REMOVE ACOUSTICAL CEILING PANELS, GRID AND SUSPENSION SYSTEM
- D6 REMOVE GYPSUM BOARD / METAL STUD CEILING AND/OR CEILING DROP AND SUSPENSION SYSTEM
- D7 REMOVE CARPET, BASE AND ADHESIVE DOWN TO STRUCTURAL SLAB
- D8 REMOVE WOOD FLOORING, BASE AND ADHESIVE DOWN TO STRUCTURAL SLAB
- D9 REMOVE CERAMIC TILE, TILE BASE, MARBLE SILL AND THIN SET TO TOP OF STRUCTURAL SLAB
- D10 REMOVE DOOR AND FRAME IN ITS ENTIRETY
- D11 REMOVE COUNTER, BASE CABINETS AND / OR WALL MOUNTED CABINETS IN THEIR ENTIRETY
- D12 REMOVE TOILET ACCESSORIES: MIRROR, SOAP DISPENSER, PAPER TOWEL DISPENSER, TOILET PAPER HOLDER, GRAB BARS, SHELVES, DOORSTOPS, ETC....
- D13 REMOVE GLASS RAILING PANELS AND TOP CAP IN THEIR ENTIRETY - RAILING BASE TO REMAIN. COORDINATE WITH NEW WORK PLANS
- D14 REMOVE SHELVING AND COAT ROD IN ITS ENTIRETY
- D15 SALVAGE DOOR, FRAME AND HARDWARE FOR REINSTALLATION
- D17 REMOVE PORTION OF CEMENT PLASTER SOFFIT TO NEAREST CONTROL JOINT. REMAINING SOFFIT TO BE PROTECTED FROM DAMAGE.
- D18 REMOVE GYPSUM BOARD FROM METAL FRAMING (FRAMING TO REMAIN) AS REQUIRED TO INSTALL NEW FINISHES - COORDINATE WITH NEW WORK PLAN
- D19 REMOVE PARTIAL HEIGHT GYPSUM BOARD AND METAL FRAMING PARTITION IN ITS ENTIRETY
- D20 REMOVE RAISED LIGHT COVE AND GRILL IN ITS ENTIRETY



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Project Designer
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Drawn By
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Q.M. Review
N. LaForest
Approved
B. Sundberg
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1/4" = 1'-0"

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First Floor Demolition Plan

103 Project Number
Drawing Number

20120-2000

A1.1

GENERAL NOTES

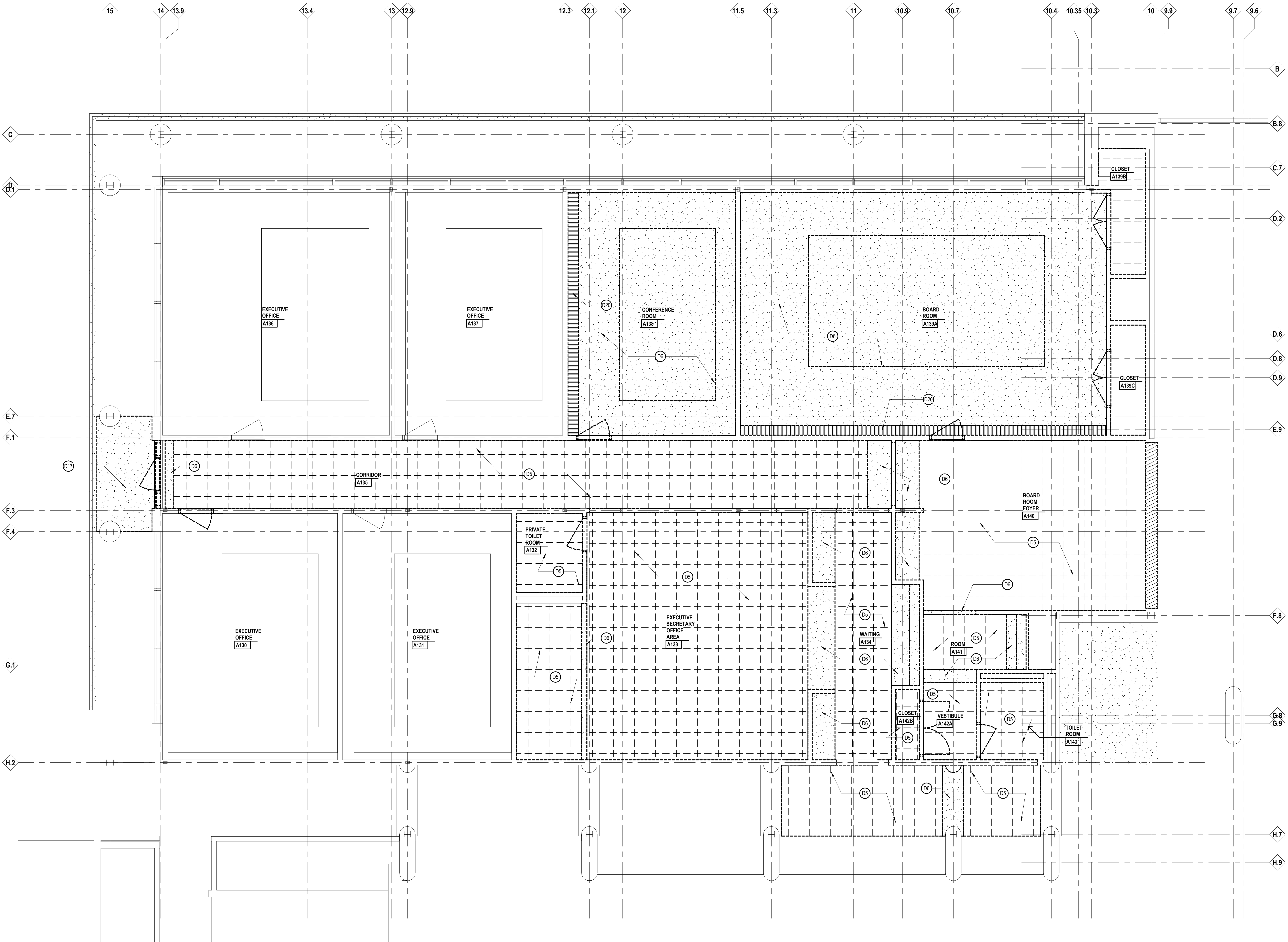
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Drawing Scale	
1/4" = 1'-0"	
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GENERAL NOTES

NEW WORK PLAN

- A. REFER TO SHEET A9.1 FOR DOOR SCHEDULE AND COLORS.
- B. REFER TO SHEET A9.1 FOR FINISH SCHEDULE AND COLORS.
- C. REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS.
- D. PARTIAL WALL POCHING IS SHOWN THROUGHOUT THIS PLAN AND THE TERMINATION OF SAME SHALL NOT BE CONSTRUED TO REPRESENT A CHANGE IN WALL MATERIAL. VERIFY WALL MATERIALS WITH PARTITION TYPES AND SCHEDULES.
- E. PATCH AND/OR REPAIR ALL EXISTING FLOOR, WALL AND OR CEILING FINISHES AS REQUIRED TO MATCH EXISTING OR TO ACCEPT NEW FINISHES AS SCHEDULED AT ALL AREAS AFFECTED BY THE DEMOLITION WORK. REFER TO MECHANICAL AND ELECTRICAL SHEETS FOR ADDITIONAL SCOPE OF WORK.
- F. INFILL ALL OPENINGS IN EXISTING WALLS ABOVE CEILINGS THAT ARE THE RESULT OF MECHANICAL OR ELECTRICAL DEMOLITION. OPENINGS IN MASONRY WALLS SHALL BE FILLED WITH MASONRY OF SIMILAR TYPES AND THICKNESS AS EXISTING. OPENINGS IN OTHER TYPES OF WALL CONSTRUCTION SHALL MATCH EXISTING MATERIALS, FINISHES AND WALL THICKNESS. REFER TO MECHANICAL AND ELECTRICAL SHEETS FOR SCOPE OF WORK.
- G. PROVIDE POSITIVE SLOPE TO ALL FLOOR DRAINS WHILE KEEPING FLOOR LEVEL AT WALL BASE.
- H. COORDINATE SIZE AND LOCATION OF ALL ACCESS DOORS WITH TRADES REQUIRING SAME. QUANTITIES SHOWN DO NOT NECESSARILY REPRESENT ALL ACCESS DOORS REQUIRED FOR ACCESSIBILITY.

LEGEND

NEW WORK PLAN

NOTE: NOT ALL SYMBOLS MAY BE USED

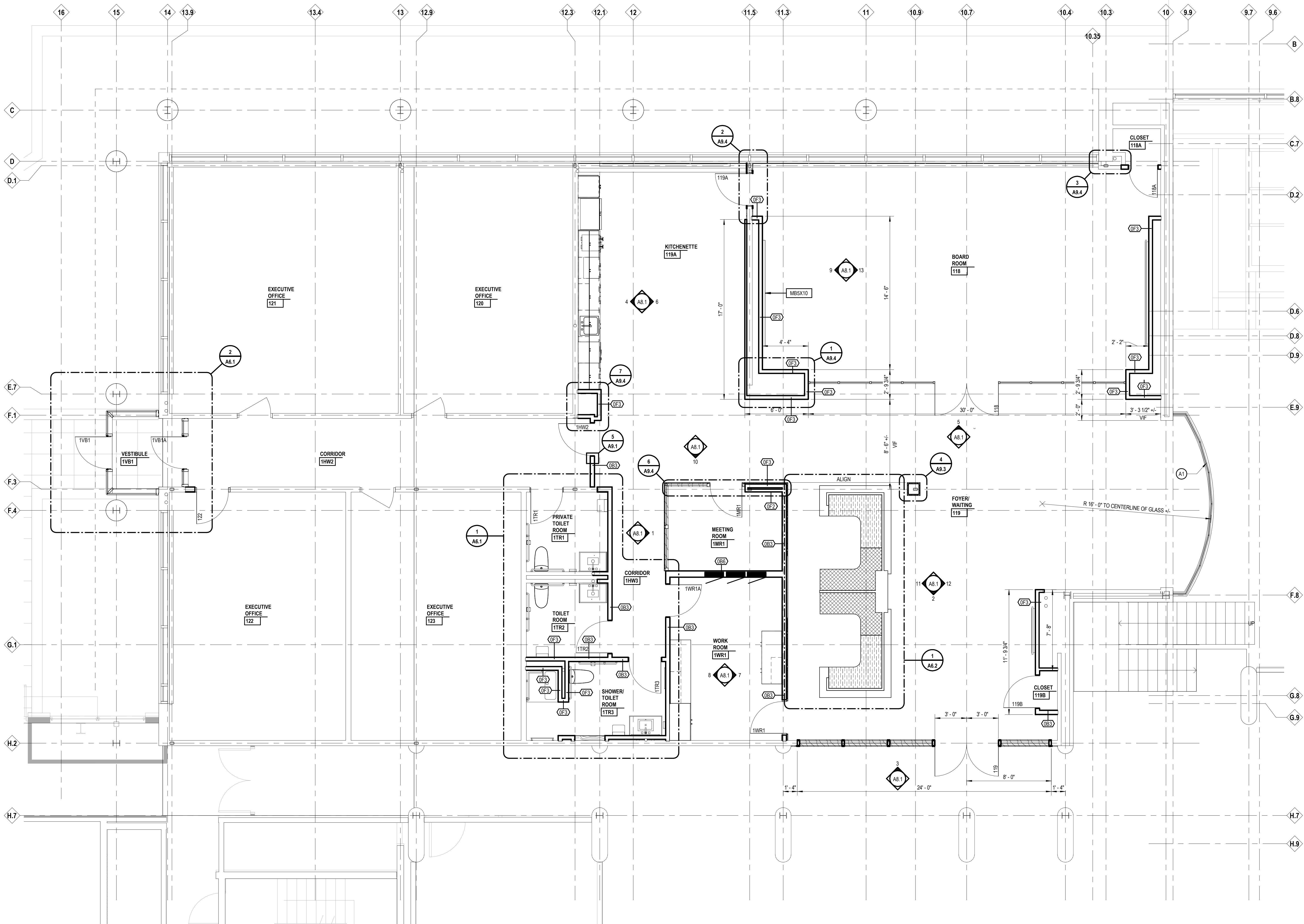
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION
- XXXX PARTITION TYPE - REFER TO PARTITION DETAILS SHEET A9.2
- SHALL COMPLY WITH BARRIER FREE REQUIREMENTS
- XXXX CASEWORK/ MILLWORK TAG
- XXXX SIGN NUMBER - REFER TO SCHEDULE SHEET A9.1
- L CORNER GUARD

KEYNOTES

NEW WORK FLOOR PLAN

SHADED ITEMS HAVE BEEN REVISED FROM PREVIOUS NOTE: NOT ALL KEYNOTES MAY BE USED

- LEGEND SYMBOL INDICATOR
- A1 08 800 1/2" TEMPERED, CURVED GLASS SET IN EXISTING CURVED TRACK AT BASE AND FRAMED INTO SOFFIT ABOVE



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Project Architect / Engineer

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Drawn By

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IDS Drawing Title

First Floor New Work Plan

103 Project Number

Drawing Number

20120-2000

A2.1

KEYNOTES

- NEW WORK ROOF PLAN
SHADED ITEMS HAVE BEEN REVISED FROM PREVIOUS
NOTE: NOT ALL KEYNOTES MAY BE USED
- LEGEND SYMBOL INDICATOR
- R1 PATCH AND REPAIR EFIS WALL SURFACE UPON REMOVAL OF EF#20
- R2 EXISTING EXHAUST FAN OUTLETS EF#7, EF#8 AND EF#9 TO REMAIN
- REPAIR ANY DAMAGE TO EFIS SURFACE UPON COMPLETION OF MECHANICAL WORK IN CEILING PLENUM BEYOND
- R3 NEW EXHAUST FAN OUTLET FOR EF#1 - CREATE NEW OPENING IN EFIS WALL FOR OUTLET LOUVER



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As Noted

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IDS Drawing Title

Roof New Work Plan

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Drawing Number

20120-2000
A2.2

GENERAL NOTES

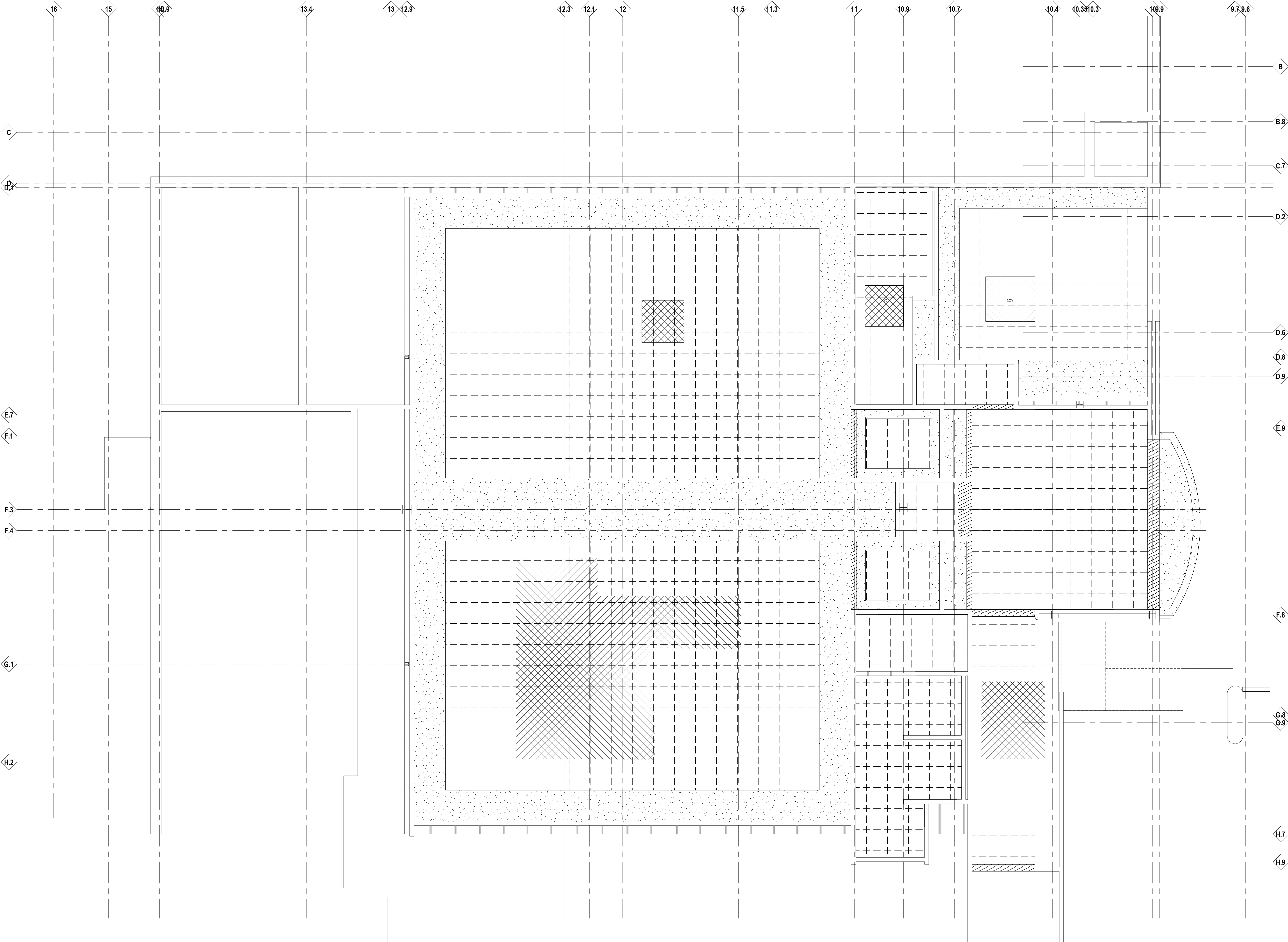
- REFLECTED CEILING PLAN
- A. CEILING HEIGHT 10'-0" AFF UNLESS OTHERWISE NOTED.
- B. ACOUSTICAL CEILING PANELS AND/OR TILES SHALL BE CENTERED WITHIN THE ROOM OR BORDER UNLESS OTHERWISE NOTED.
- C. REFER TO FLOOR PLANS FOR PARTITION TYPE DESIGNATION.
- D. COORDINATE CEILING SUSPENSION SYSTEMS WITH OTHER CEILING SPACE EQUIPMENT SUPPORTING DEVICES.
- E. UNLESS OTHERWISE NOTED LOCATION OF ITEMS SHOWN IN AREAS WITHOUT FINISH CEILINGS IS APPROXIMATE. COORDINATE EXACT LOCATION BETWEEN TRADES.
- F. COORDINATE SIZE AND LOCATION OF ALL ACCESS DOORS WITH TRADES REQUIRING SAME. QUANTITIES SHOWN DO NOT NECESSARILY REPRESENT ALL ACCESS DOORS REQUIRED FOR ACCESSIBILITY.

LEGEND

- REFLECTED CEILING PLAN
NOTE: NOT ALL SYMBOLS MAY BE USED
- LAY-IN CEILING
- EXISTING LAY-IN CEILING
- GYPSUM BOARD CEILING
- 06 4023 HARDWOOD VENEER
PLYWOOD CEILING
- AREA OF EXISTING CEILING
TO BE REMOVED AND REPLACED
- COORD WITH MECH AND ELEC
- RECESSED DOWNLIGHT
- RECESSED LINEAR LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- PENDANT LINEAR LIGHT FIXTURE
- LIGHT FIXTURES
- INDUSTRIAL LIGHT FIXTURE
- LINEAR RETURN DIFFUSER
- LINEAR SUPPLY DIFFUSER
- EXHAUST AIR DIFFUSER
- RETURN AIR REGISTER/GRILLS
- SUPPLY AIR REGISTER/GRILLS
- ACCESS PANEL (24X24 UON)
- RADIANT CEILING PANEL
- SPRINKLER HEAD
- SENSORS
- FIRE ALARM DEVICES
- SPEAKERS
- MICROPHONE
- EXIT SIGNS
- JUNCTION BOX
- RECEPTACLES
- WIRELESS ACCESS POINT
- CAMERA
- PROJECTOR
- FLAT PANEL MONITOR

KEYNOTES

- REFLECTED CEILING PLAN
SHADED ITEMS HAVE BEEN REVISED FROM PREVIOUS
NOTE: NOT ALL KEYNOTES MAY BE USED
- LEGEND SYMBOL INDICATOR
- C1 08 3113 10"x10" SOFFIT/WALL ACCESS PANEL - PAINT 09 9100 (PT-04)
- C2 09 9100 PAINT (PT-04)
- C3 09 9100 PAINT (PT-02)
- C4 09 2400 CEMENT PLASTER SOFFIT TO MATCH EXISTING ADJACENT
- C5 EXISTING GYPSUM BOARD CEILING TO REMAIN - NO WORK
- C6 09 2900 GYPSUM BOARD SOFFIT - COORDINATE LIMITS WITH UPPER CABINETS
- C7 08 3113 24"x24" CEILING ACCESS PANEL - PAINT TO MATCH EXISTING CEILING



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Lower Level Reflected Ceiling Plan

103 Project Number
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A3.01

GENERAL NOTES

- REFLECTED CEILING PLAN
NOTE: NOT ALL SYMBOLS MAY BE USED
- A. CEILING HEIGHT 10'-0" AFF UNLESS OTHERWISE NOTED.
 - B. ACOUSTICAL CEILING PANELS AND/OR TILES SHALL BE CENTERED WITHIN THE ROOM OR BORDER UNLESS OTHERWISE NOTED.
 - C. REFER TO FLOOR PLANS FOR PARTITION TYPE DESIGNATION.
 - D. COORDINATE CEILING SUSPENSION SYSTEMS WITH OTHER CEILING SPACE EQUIPMENT SUPPORTING DEVICES.
 - E. UNLESS OTHERWISE NOTED LOCATION OF ITEMS SHOWN IN AREAS WITHOUT FINISH CEILINGS IS APPROXIMATE. COORDINATE EXACT LOCATION BETWEEN TRADES.
 - F. COORDINATE SIZE AND LOCATION OF ALL ACCESS DOORS WITH TRADES REQUIRING SAME. QUANTITIES SHOWN DO NOT NECESSARILY REPRESENT ALL ACCESS DOORS REQUIRED FOR ACCESSIBILITY.

LEGEND

- REFLECTED CEILING PLAN
NOTE: NOT ALL SYMBOLS MAY BE USED
- LAY-IN CEILING
 - EXISTING LAY-IN CEILING
 - GYPSUM BOARD CEILING
 - 06 4023 HARDWOOD VENEER PLYWOOD CEILING
 - AREA OF EXISTING CEILING TO BE REMOVED AND REPLACED - COORD WITH MECH AND ELEC
 - RECESSED DOWNLIGHT
 - RECESSED LINEAR LIGHT FIXTURE
 - PENDANT LIGHT FIXTURE
 - PENDANT LINEAR LIGHT FIXTURE
 - LIGHT FIXTURES
 - INDUSTRIAL LIGHT FIXTURE
 - LINEAR RETURN DIFFUSER
 - LINEAR SUPPLY DIFFUSER
 - EXHAUST AIR DIFFUSER
 - RETURN AIR REGISTER/GRILLS
 - SUPPLY AIR REGISTER/GRILLS
 - ACCESS PANEL (24X24 UON)
 - RADIANT CEILING PANEL
 - SPRINKLER HEAD
 - SENSORS
 - FIRE ALARM DEVICES
 - SPEAKERS
 - MICROPHONE
 - EXIT SIGNS
 - JUNCTION BOX
 - RECEPTACLES
 - WIRELESS ACCESS POINT
 - CAMERA
 - PROJECTOR
 - FLAT PANEL MONITOR

KEYNOTES

- REFLECTED CEILING PLAN
NOTE: NOT ALL KEYNOTES MAY BE USED
- LEGEND SYMBOL INDICATOR
 - 08 3113 10"X10" SOFFIT/WALL ACCESS PANEL - PAINT 09 9100 (PT-04)
 - 09 9100 PAINT (PT-04)
 - 09 9100 PAINT (PT-02)
 - 09 2400 CEMENT PLASTER SOFFIT TO MATCH EXISTING ADJACENT
 - EXISTING GYPSUM BOARD CEILING TO REMAIN - NO WORK
 - 09 2900 GYPSUM BOARD SOFFIT - COORDINATE LIMITS WITH UPPER CABINETS
 - 08 3113 24"X24" CEILING ACCESS PANEL - PAINT TO MATCH EXISTING CEILING

Project Title



Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan



Project Administrator
Administrator
Project Designer
K. Litwin/T. Easthope
Project Architect / Engineer
K. Marshall
Drawn By
K. Marshall
Q.M. Review
N. LaForest
Approved
B. Sundberg
Drawing Scale
1/4" = 1'-0"

Issued for
Design Development
Quality Management Review
Bids
Issue Date
02-26-2021
04-21-2021
07-15-2021

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IDS Drawing Title

First Floor Reflected Ceiling Plan

103 Project Number
Drawing Number

20120-2000

A3.1

GENERAL NOTES

- REFLECTED CEILING PLAN
- A. CEILING HEIGHT 10'-0" AFF UNLESS OTHERWISE NOTED.
- B. ACOUSTICAL CEILING PANELS AND/OR TILES SHALL BE CENTERED WITHIN THE ROOM OR BORDER UNLESS OTHERWISE NOTED.
- C. REFER TO FLOOR PLANS FOR PARTITION TYPE DESIGNATION.
- D. COORDINATE CEILING SUSPENSION SYSTEMS WITH OTHER CEILING SPACE EQUIPMENT SUPPORTING DEVICES.
- E. UNLESS OTHERWISE NOTED LOCATION OF ITEMS SHOWN IN AREAS WITHOUT FINISH CEILINGS IS APPROXIMATE. COORDINATE EXACT LOCATION BETWEEN TRADES.
- F. COORDINATE SIZE AND LOCATION OF ALL ACCESS DOORS WITH TRADES REQUIRING SAME. QUANTITIES SHOWN DO NOT NECESSARILY REPRESENT ALL ACCESS DOORS REQUIRED FOR ACCESSIBILITY.

LEGEND

- REFLECTED CEILING PLAN
NOTE: NOT ALL SYMBOLS MAY BE USED
- LAY-IN CEILING
- EXISTING LAY-IN CEILING
- GYPSUM BOARD CEILING
- 06 4023 HARDWOOD VENEER
PLYWOOD CEILING
- AREA OF EXISTING CEILING
TO BE REMOVED AND REPLACED
- COORD WITH MECH AND ELEC
- RECESSED DOWNLIGHT
- RECESSED LINEAR LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- PENDANT LINEAR LIGHT FIXTURE
- LIGHT FIXTURES
- INDUSTRIAL LIGHT FIXTURE
- LINEAR RETURN DIFFUSER
- LINEAR SUPPLY DIFFUSER
- EXHAUST AIR DIFFUSER
- RETURN AIR REGISTER/GRILLS
- SUPPLY AIR REGISTER/GRILLS
- ACCESS PANEL (24X24 UON)
- RADIANT CEILING PANEL
- SPRINKLER HEAD
- SENSORS
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- SPEAKERS
- MICROPHONE
- EXIT SIGNS
- JUNCTION BOX
- RECEPTACLES
- WIRELESS ACCESS POINT
- CAMERA
- PROJECTOR
- FLAT PANEL MONITOR

KEYNOTES

- REFLECTED CEILING PLAN
SHADED ITEMS HAVE BEEN REVISED FROM PREVIOUS
NOTE: NOT ALL KEYNOTES MAY BE USED
- LEGEND SYMBOL INDICATOR
- C1 06 3113 10'X10' SOFFIT/WALL ACCESS PANEL - PAINT 09 9100 (PT-04)
- C2 09 9100 PAINT (PT-04)
- C3 09 9100 PAINT (PT-02)
- C4 09 2400 CEMENT PLASTER SOFFIT TO MATCH EXISTING ADJACENT
- C5 EXISTING GYPSUM BOARD CEILING TO REMAIN - NO WORK
- C6 09 2900 GYPSUM BOARD SOFFIT - COORDINATE LIMITS WITH UPPER CABINETS
- C7 08 3113 24'X24' CEILING ACCESS PANEL - PAINT TO MATCH EXISTING CEILING

iDS

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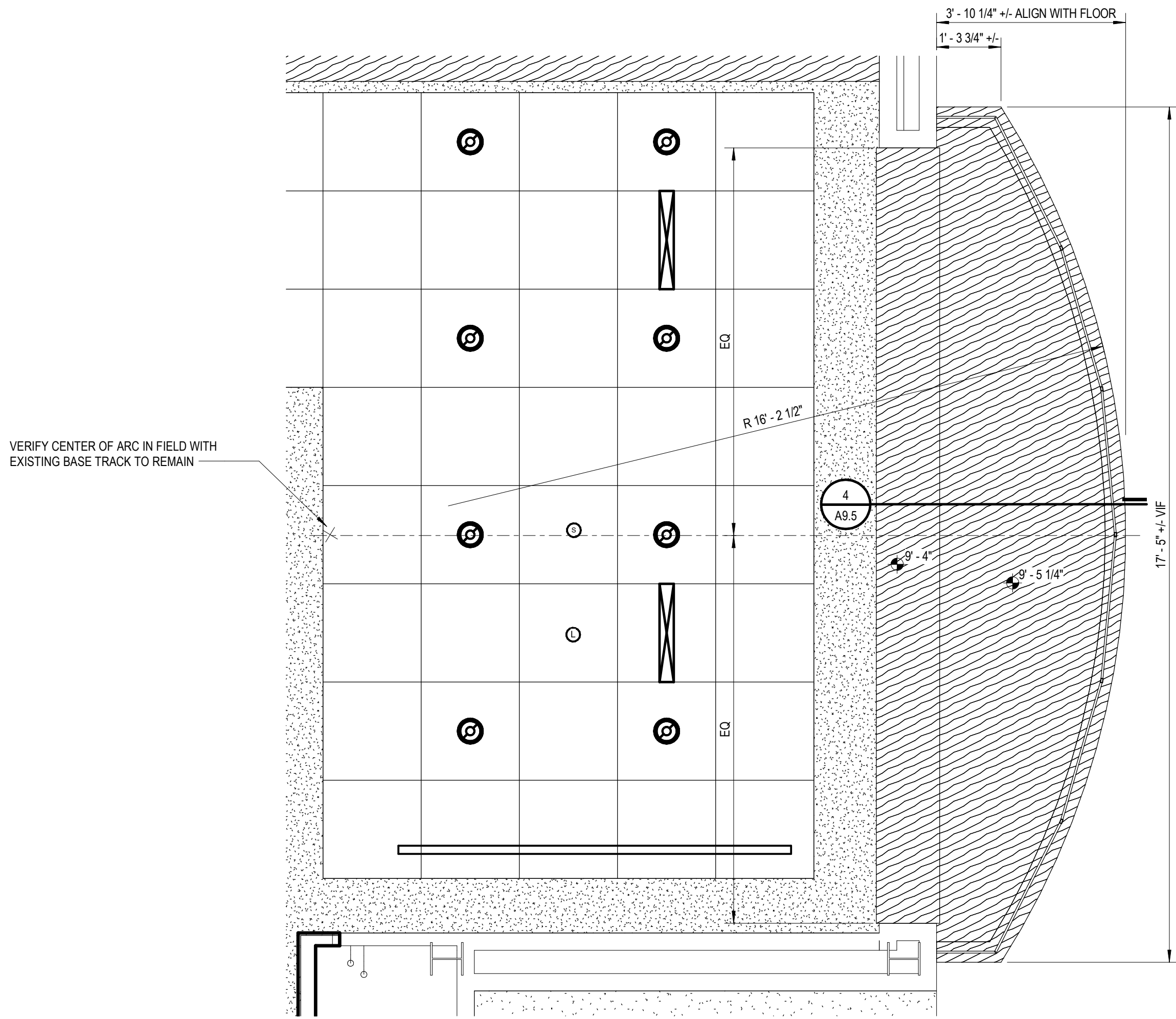
Project Title



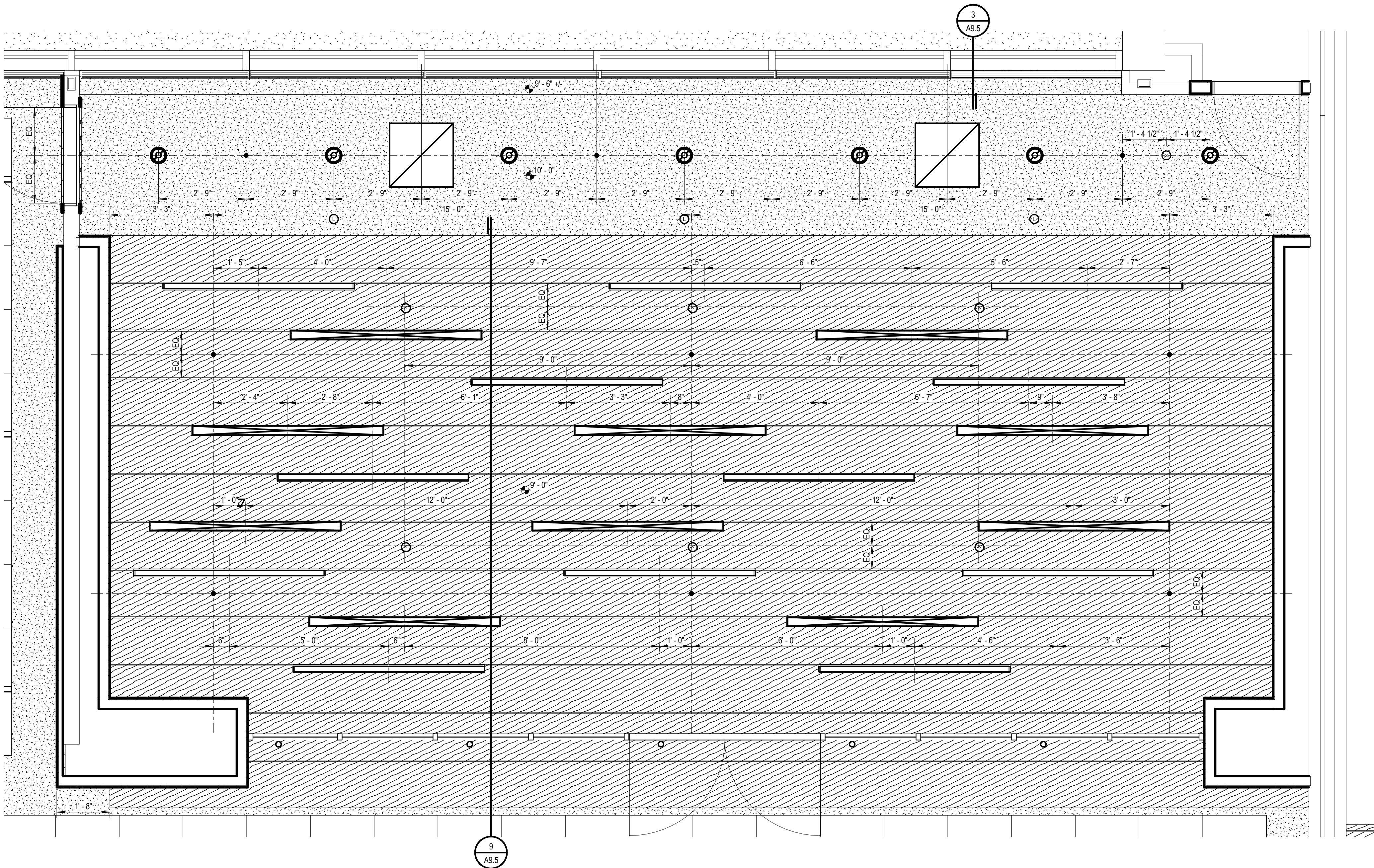
Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan



2 ENLARGED LOBBY BALCONY REFLECTED CEILING PLAN
1/2" = 1'-0"



1 ENLARGED BOARD ROOM REFLECTED CEILING PLAN
1/2" = 1'-0"

Project Administrator	
Administrator	
Project Designer	
K. Litwin/T. Easthope	
Project Architect / Engineer	
K. Marshall	
Drawn By	
K. Marshall	
Q.M. Review	
N. LaForest	
Approved	
B. Sundberg	
Drawing Scale	
As Noted	
Issued for	Issue Date
Quality Management Review	04-21-2021
Bids	07-15-2021

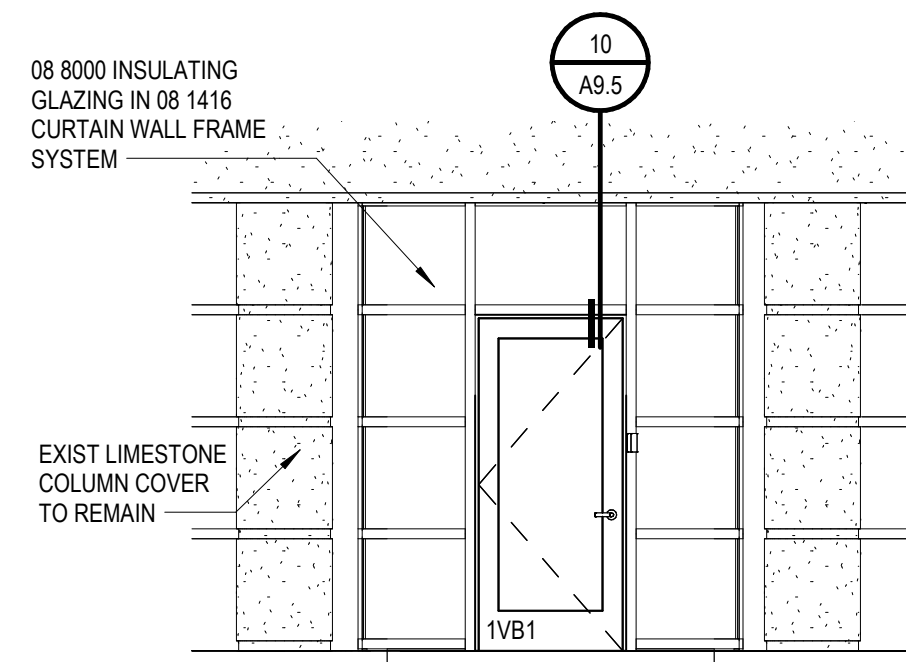
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IDS Drawing Title

Enlarged Board Room Reflected Ceiling
Plan

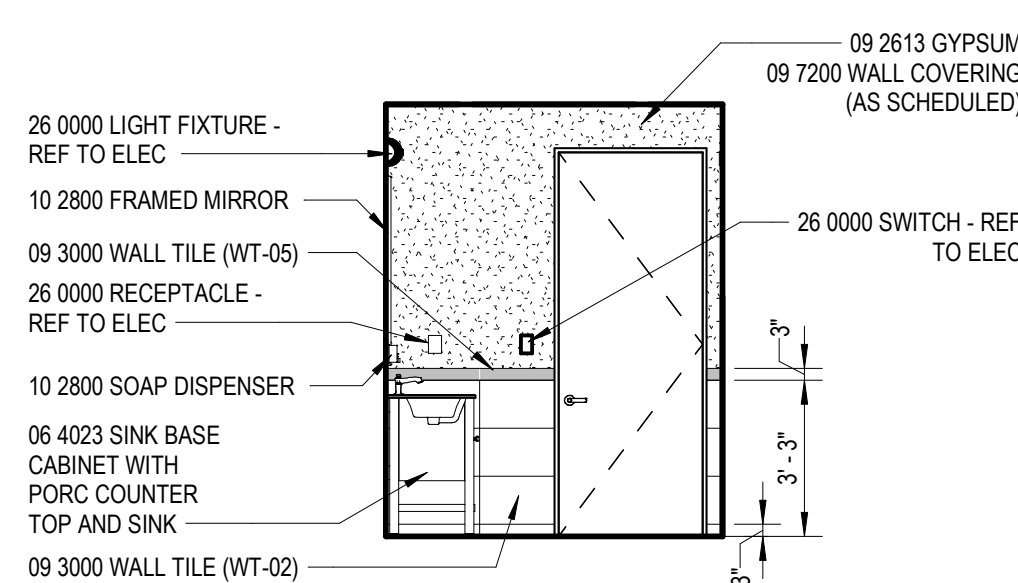
103 Project Number Drawing Number

20120-2000

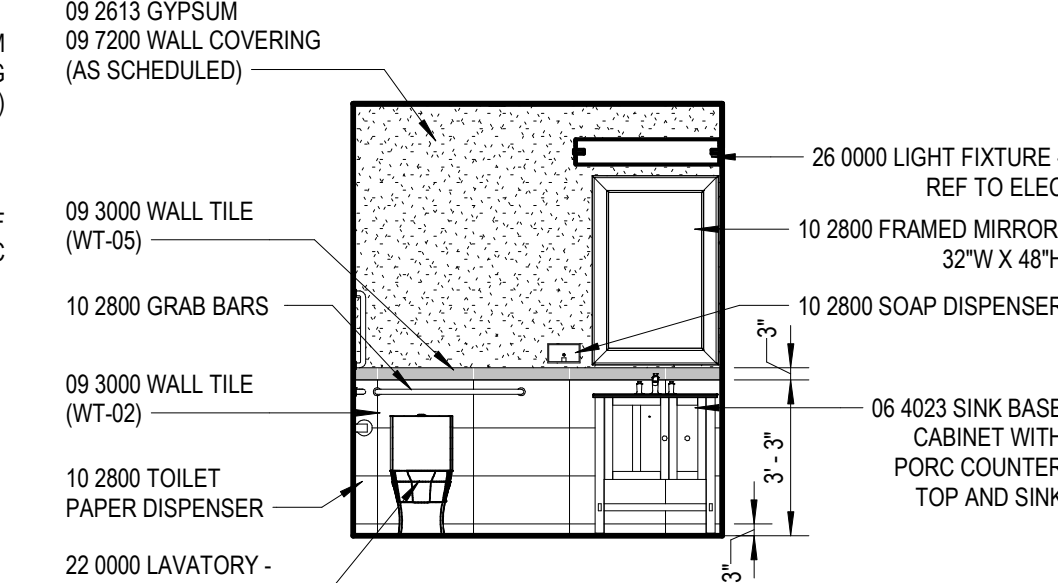
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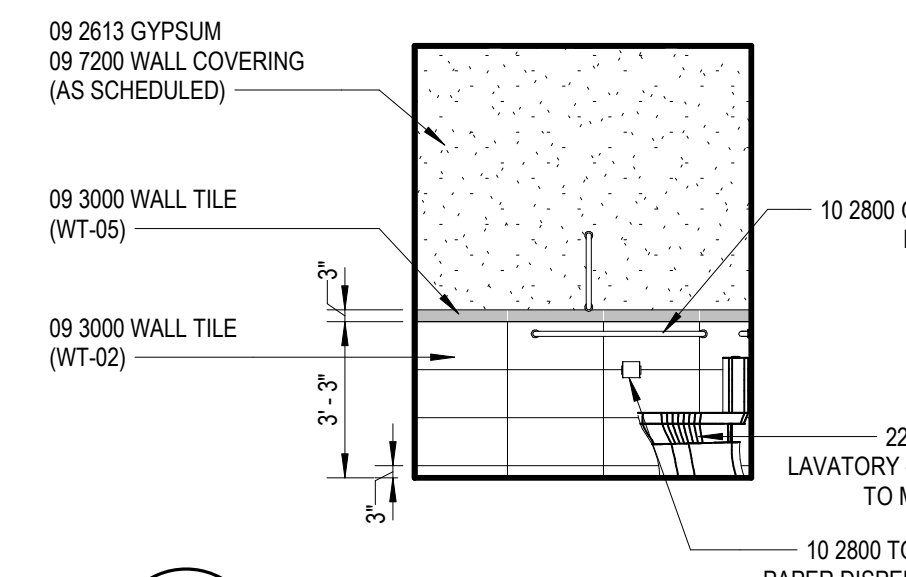
12 VESTIBULE ELEVATION
A6.1 1/4" = 1'-0"



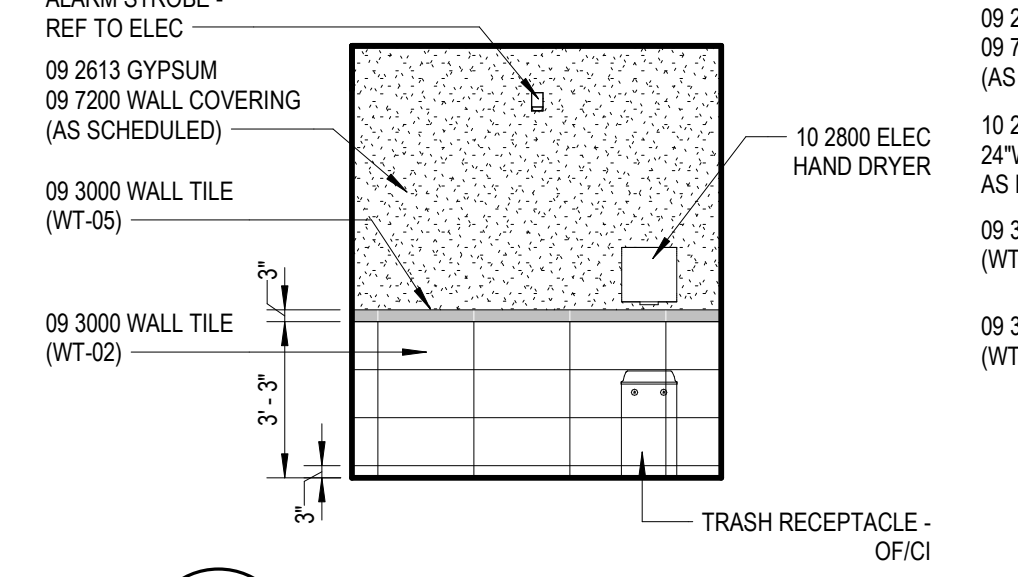
11 TOILET RM
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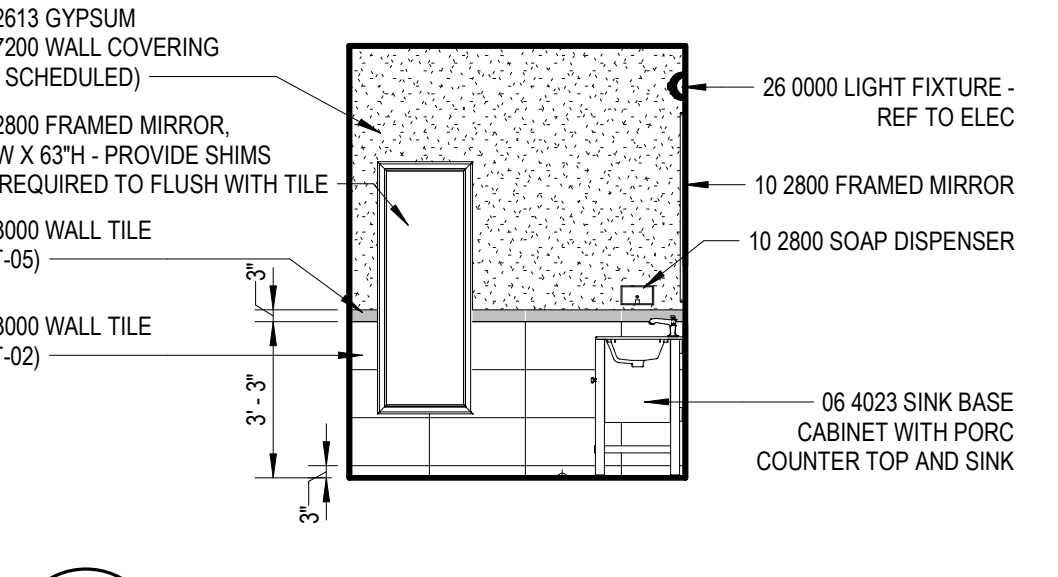
10 TOILET RM
A6.1 1/4" = 1'-0"



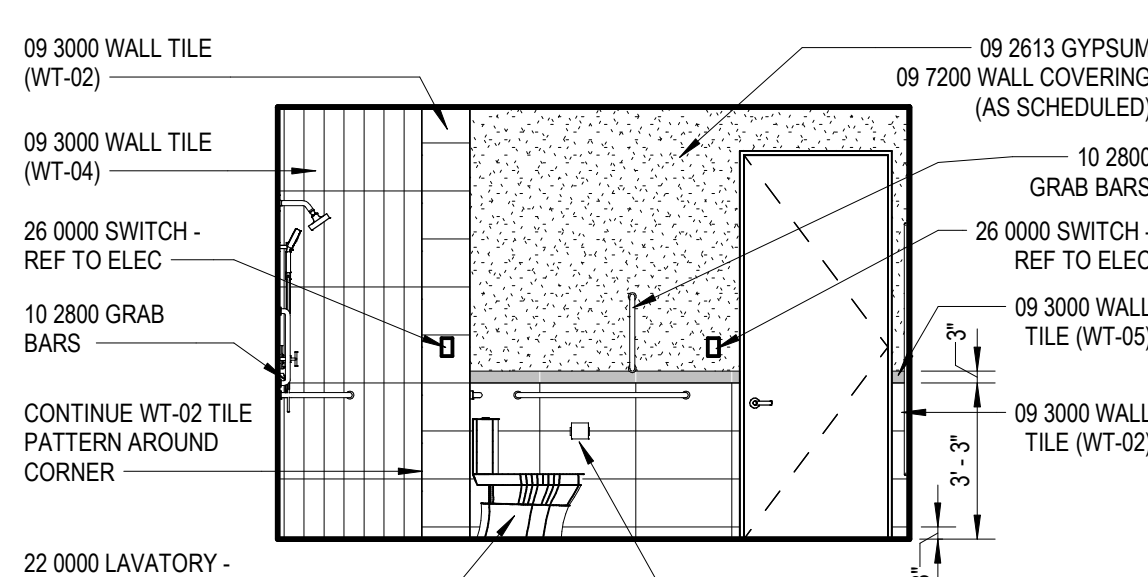
9 TOILET RM
A6.1 1/4" = 1'-0"



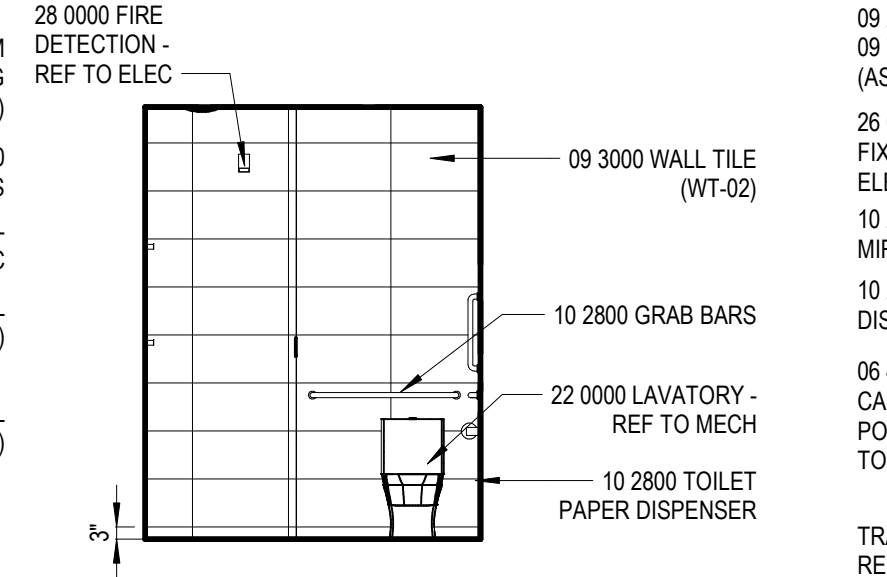
8 TOILET RM
A6.1 1/4" = 1'-0"



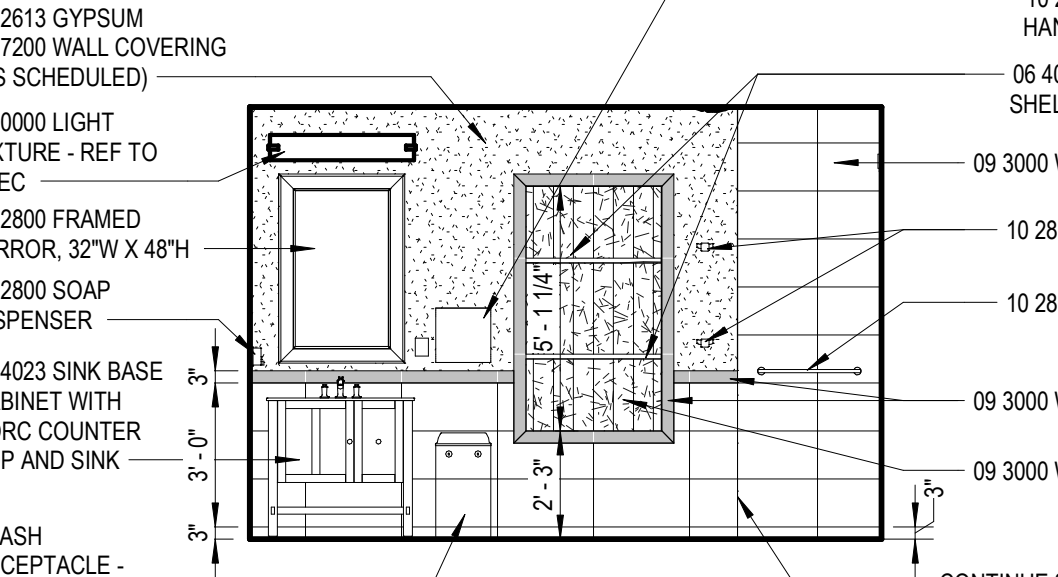
7 SHOWER/TOILET RM
A6.1 1/4" = 1'-0"



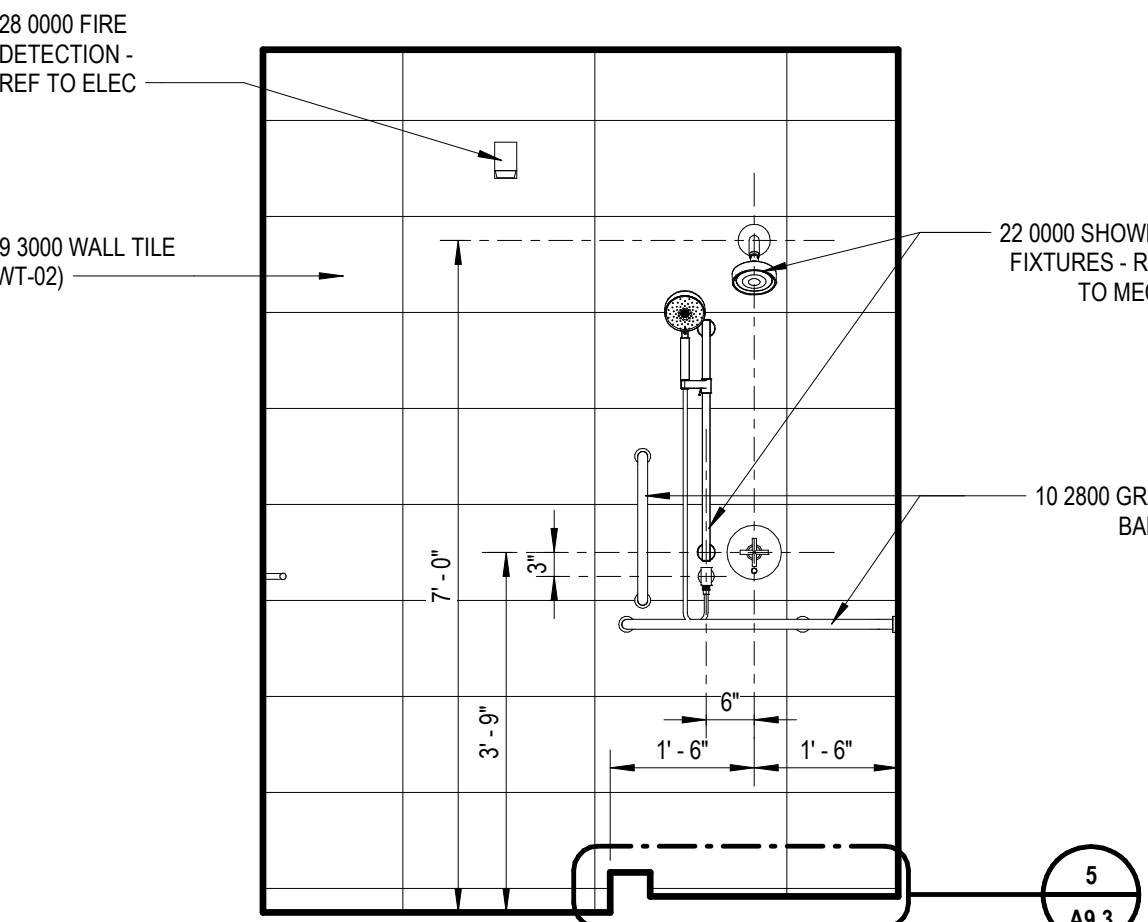
6 SHOWER/TOILET RM
A6.1 1/4" = 1'-0"



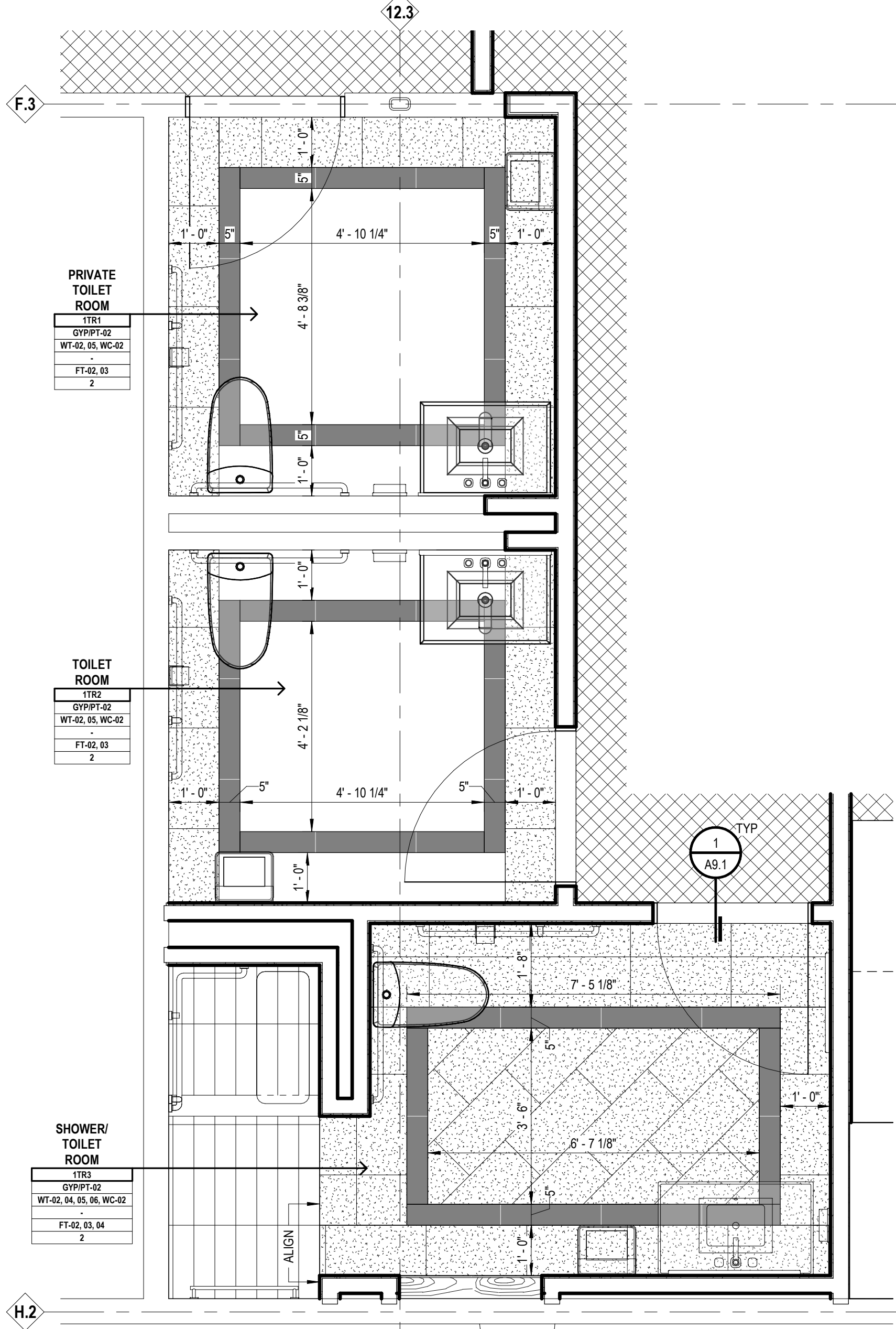
5 SHOWER/TOILET RM
A6.1 1/4" = 1'-0"



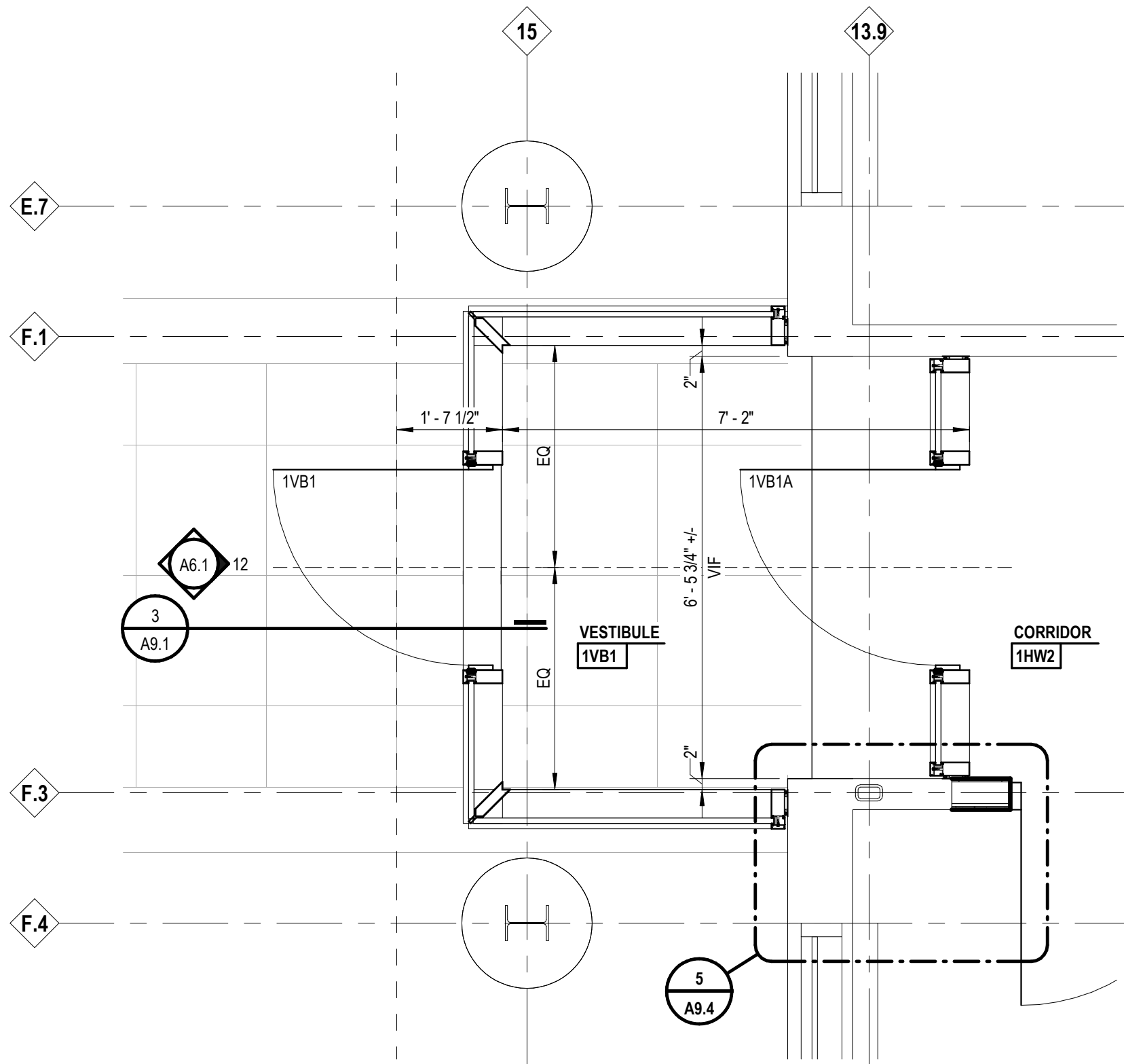
4 SHOWER/TOILET RM
A6.1 1/4" = 1'-0"



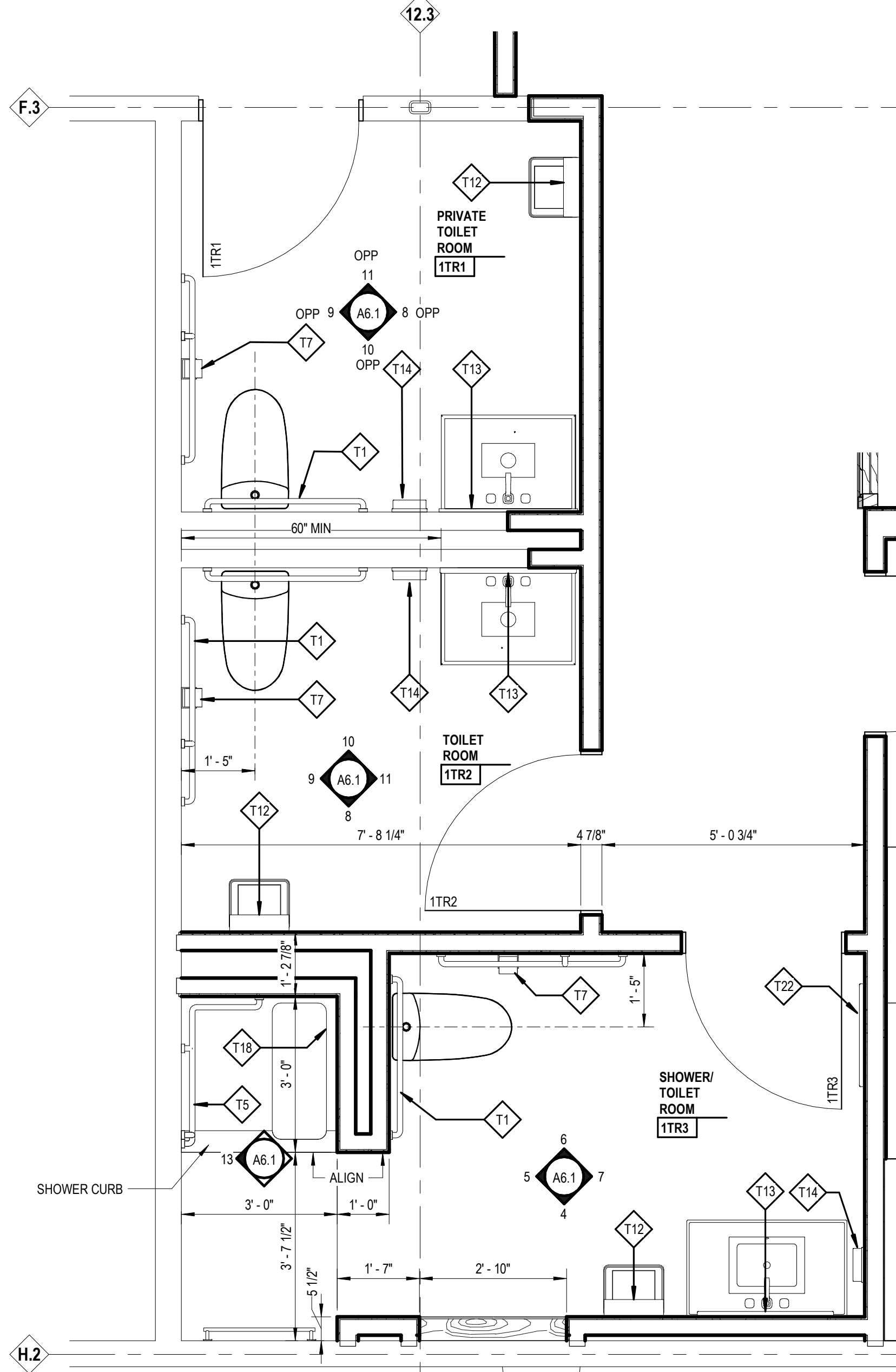
13 SHOWER - WEST
A6.1 1/2" = 1'-0"



3 ENLARGED TOILET ROOM FINISH PLAN
A10.1 1/2" = 1'-0"



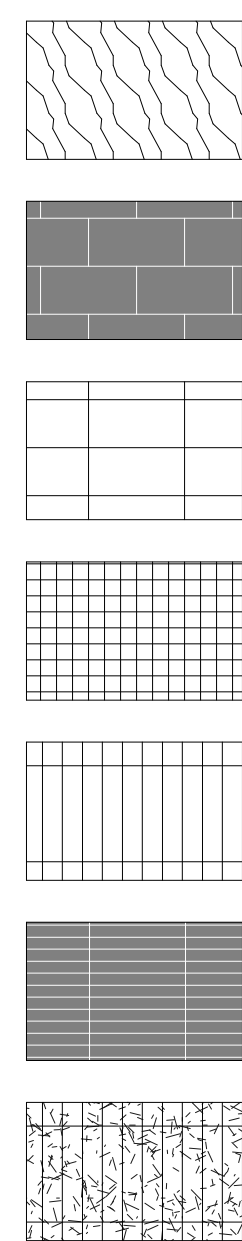
2 ENLARGED WEST VESTIBULE NEW WORK PLAN
A2.1 1/2" = 1'-0"



1 ENLARGED TOILET ROOM NEW WORK PLAN
A2.1 1/2" = 1'-0"

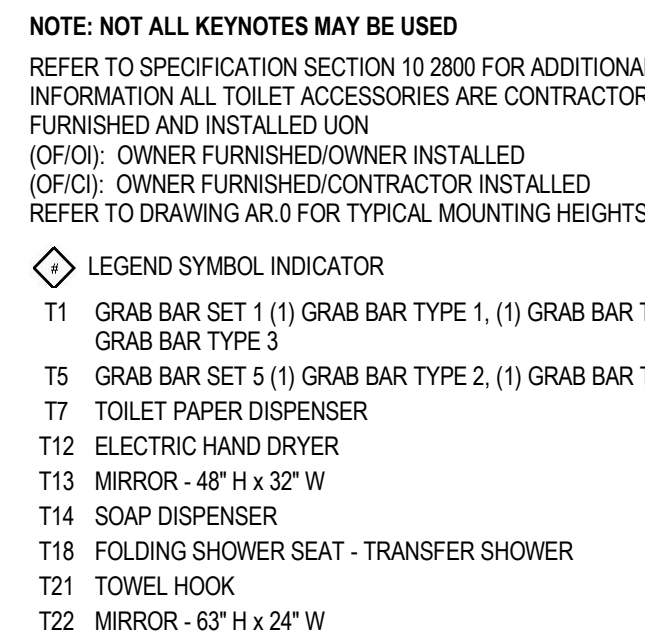
LEGEND

ELEVATION MATERIALS
NOTE: NOT ALL SYMBOLS MAY BE USED



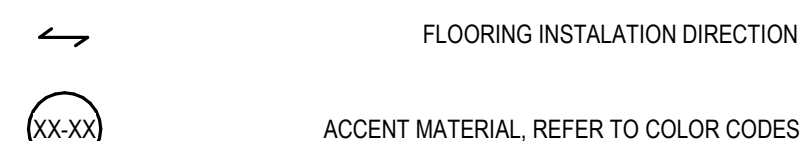
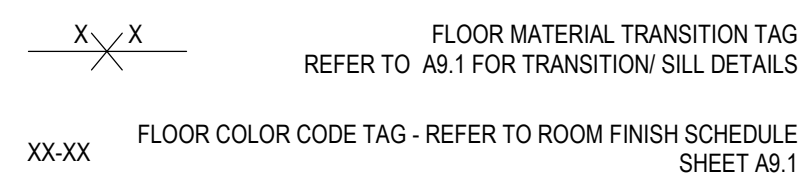
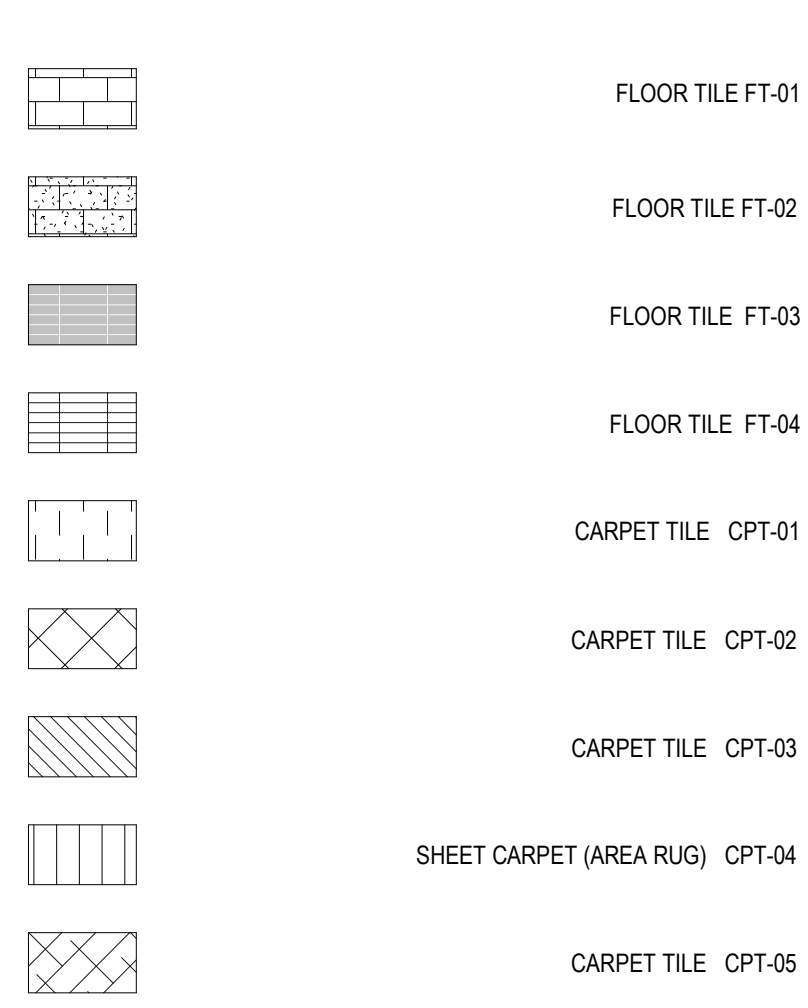
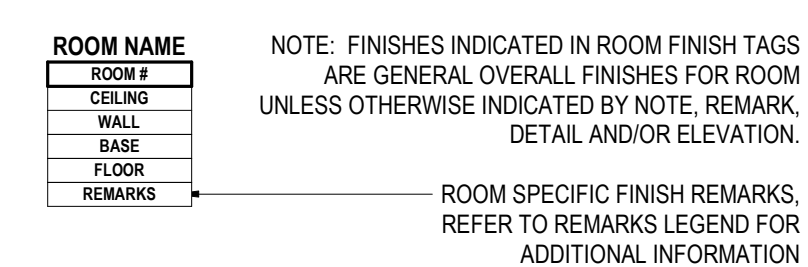
LEGEND

TOILET ACCESSORIES
SHADED ITEMS HAVE BEEN REVISED FROM PREVIOUS
NOTE: NOT ALL KEYNOTES MAY BE USED



LEGEND

FINISH PLAN
NOTE: NOT ALL SYMBOLS MAY BE USED



GENERAL NOTES

FINISH PLAN
A. REFER TO ROOM FINISH SCHEDULE AND COLOR CODES FOR MORE INFORMATION.

GENERAL NOTES

INTERIOR ELEVATIONS
A. ALL DIMENSIONS ARE TO FACE OF GYP BOARD UON.
B. COORDINATE THE INTERFACING OF ALL TRADES WITH RESPECT TO DELIVERY AND INSTALLATION OF ALL FIXTURES AND EQUIPMENT.
C. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BEFORE INSTALLATION. CONSULT ARCHITECT WHEN ACTUAL FIELD CONDITIONS VARY FROM THOSE SHOWN ON CONSTRUCTION DOCUMENTS.
D. COORDINATE LOCATIONS OF ALL REQUIRED UTILITIES WITH THE TRADE PROVIDING THE SAME. REFER TO MECHANICAL AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
E. FASTEN ALL TALL CASES TO THE ADJOINING WALL THROUGH THE BACK OR SIDE OF THE UNIT.
F. ALL COUNTERTOPS INSTALLED ALONG A WALL OR EQUIPMENT ARE TO HAVE 4" BACKSPLASH AND SIDE SPLASH UON.
G. FINISH ALL EXPOSED ENDS AND BACKS OF FREESTANDING CASEWORK/ MILLWORK.
H. PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS UON. ALL LOCKS SHOULD BE KEyed ALIKE BY ROOM, PROVIDE MASTER KEYING.
I. REFER TO A6.1 ROOM FINISH SCHEDULE FOR COLORS AND FINISHES OF MATERIALS.
J. REFER TO PLANS, SECTIONS AND DETAILS FOR CASEWORK DEPTH.
K. PROVIDE CABINET FILLERS AS NEEDED.
L. FURNITURE AND SPECIALTY EQUIPMENT BY OTHERS SHOWN FOR REFERENCE ONLY.
M. FURNITURE SHOWN AT HALFTONE BY OWNER.
N. PROVIDE PARTITION REINFORCEMENT AT LOCATIONS OF WALL MOUNTED EQUIPMENT. REFER TO DETAIL S98.1 FOR TYPICAL REQUIREMENTS AT NEW CONSTRUCTION. CONDITIONS MAY VARY AT EXISTING PARTITIONS.
O. NOT ALL SIGN LOCATIONS ARE ELEVATED.
P. COORDINATE LOCATIONS OF ALL REQUIRED UTILITY CONNECTIONS AND/OR REQUIREMENTS WITH THE TRADE PROVIDING THE SAME.

Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48767

Key Plan

Project Administrator	
Administrator	
Project Designer	
K. Litwin/T. Easthope	
Project Architect / Engineer	
K. Marshall	
Drawn By	
T. Easthope, K. Marshall	
Q.M. Review	
N. LaForest	
Approved	
B. Sundberg	
Drawing Scale	
1/2" = 1'-0"	
Issued for	Issue Date
Design Development	02-26-2021
Quality Management Review	04-21-2021
Bids	07-15-2021

Enlarged Toilet Room and Vestibule Plans,
Elevations, Sections and Details



6 LOBBY MILLWORK SECTION
A6.2 1 1/2" = 1'-0"

7 LOBBY MILLWORK PLAN DETAIL



1 FIRST FLOOR NEW WORK PLAN - CASEWORK
A2.1 3/4" = 1'-0"



Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan

Project Administrator	
Administrator	
Project Designer	
K. Litwin/T. Easthope	
Project Architect / Engineer	
K. Marshall	
Drawn By	
K. Marshall	
Q.M. Review	
N. LaForest	
Approved	
B. Sundberg	
Drawing Scale	
As Noted	
Issued for	Issue Date
Quality Management Review	04-21-2021
Bids	07-15-2021

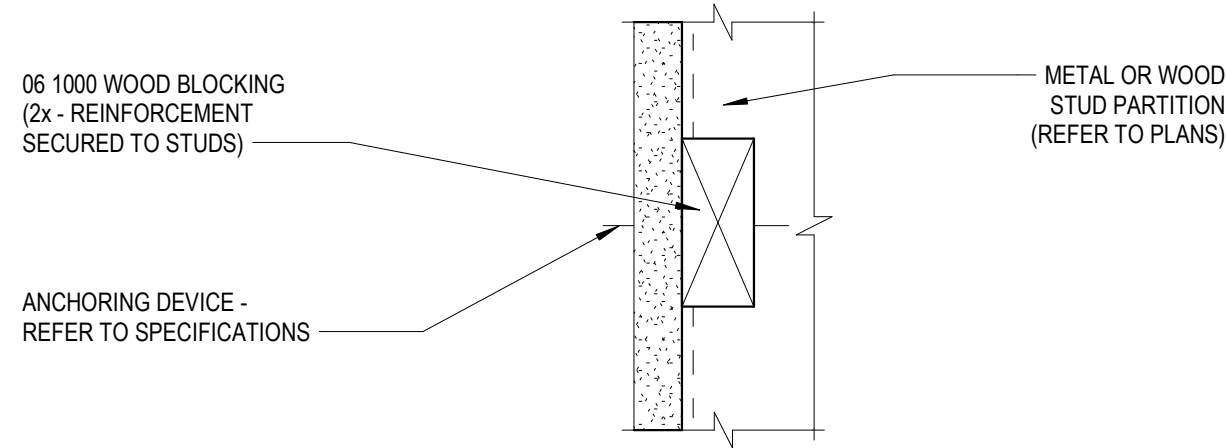
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IDS Drawing Title

Lobby Millwork Plan, Elevations and Details

DS Project Number Drawing Number

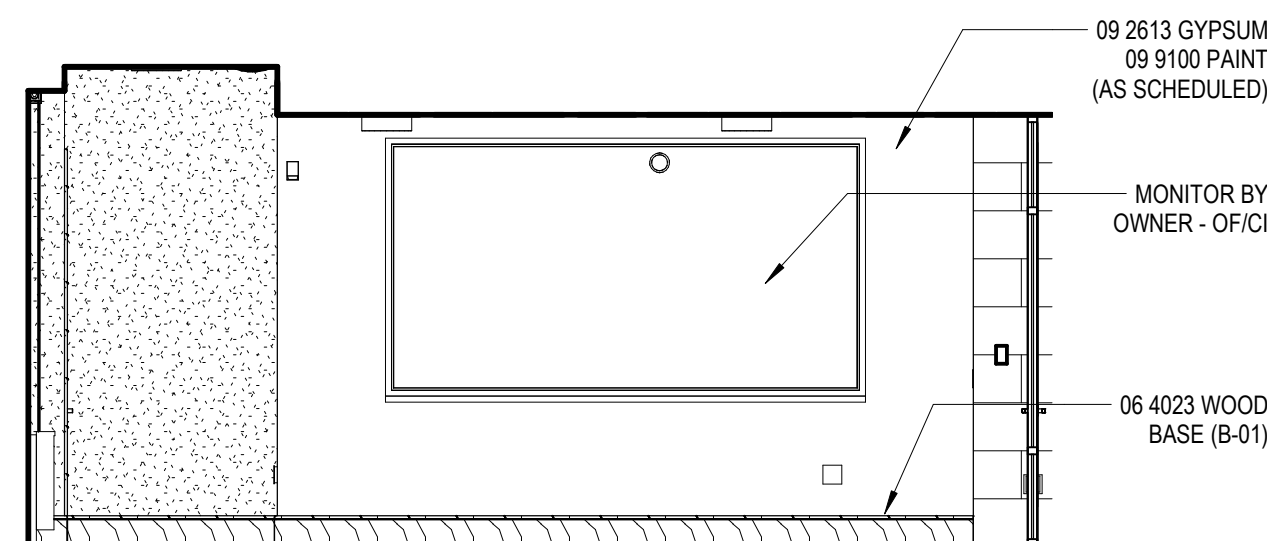
20120-2000

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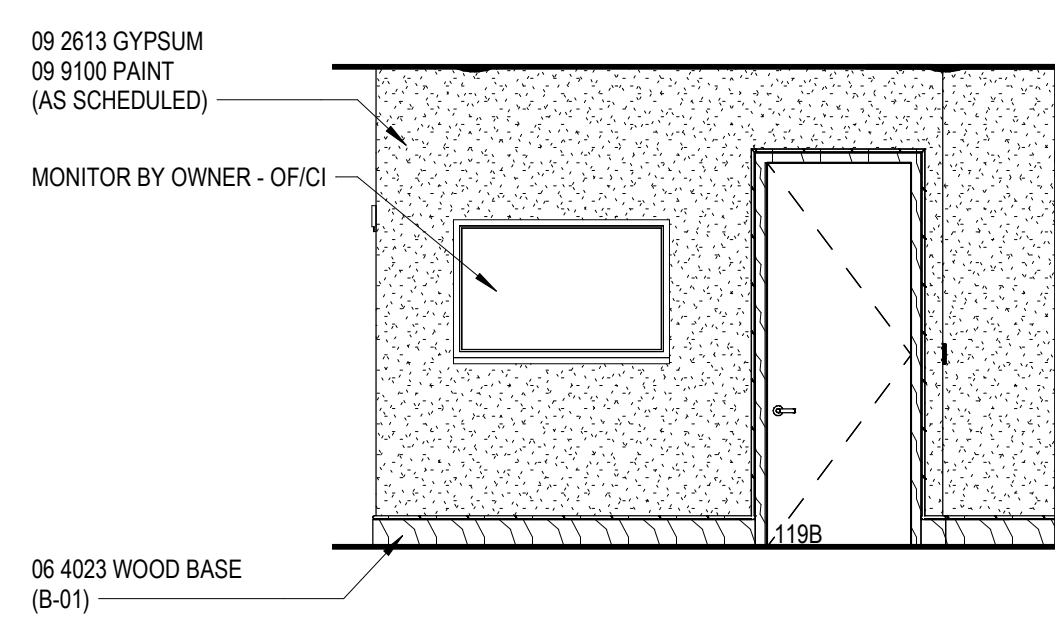
14
A8.1
3" = 1'-0"

TYPICAL PARTITION REINFORCEMENT



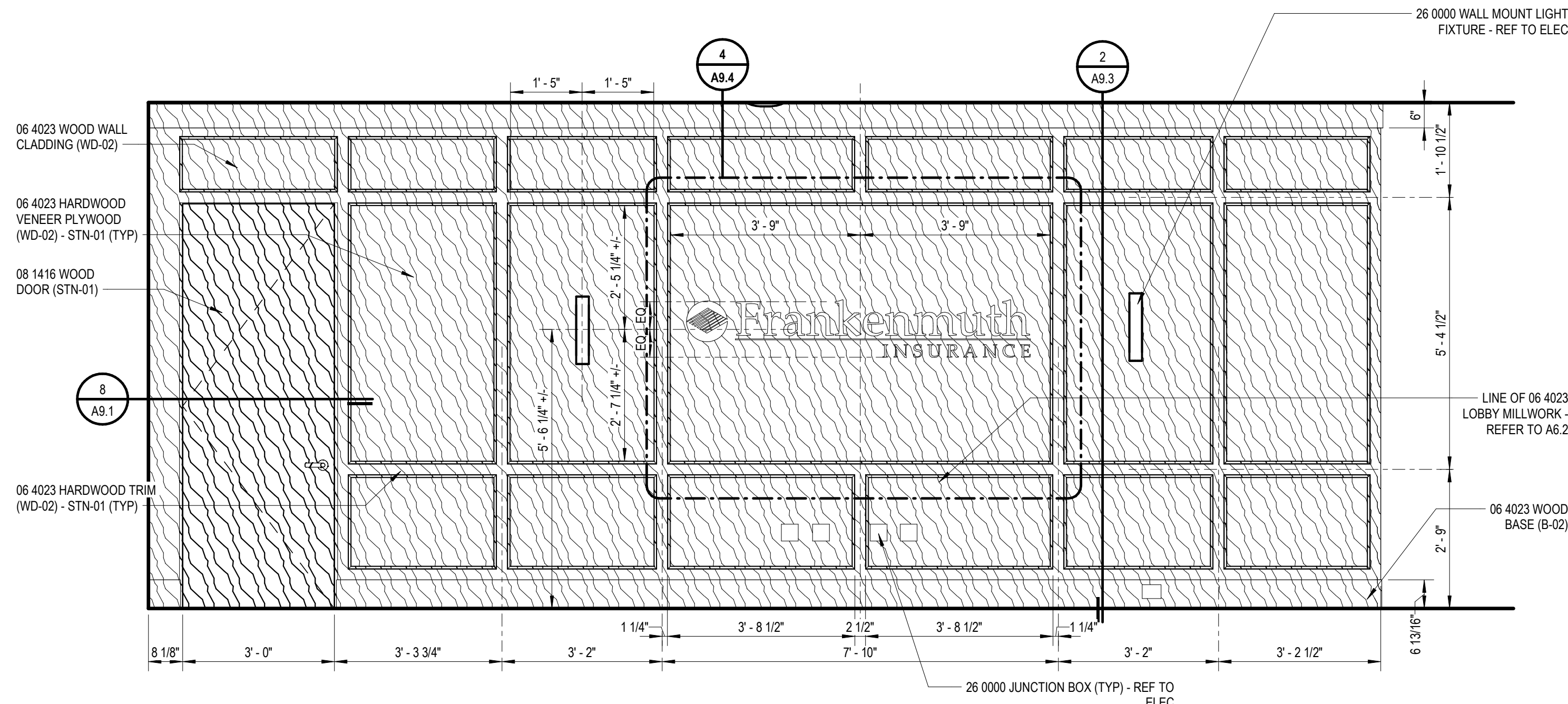
13
A2.1
1/4" = 1'-0"

BOARDROOM 118 - EAST ELEVATION



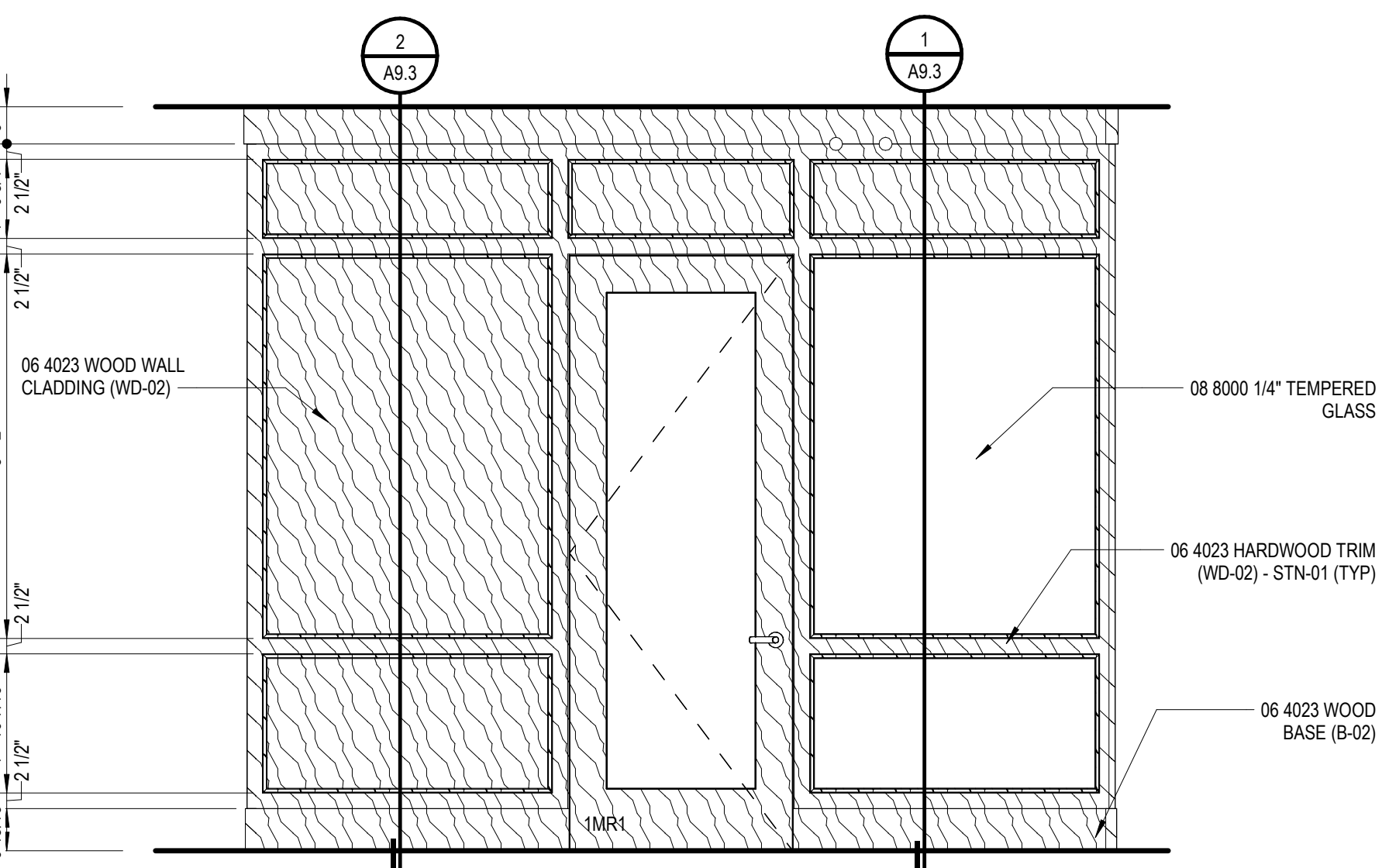
12
A2.1
1/4" = 1'-0"

WAITING - 119 EAST ELEVATION



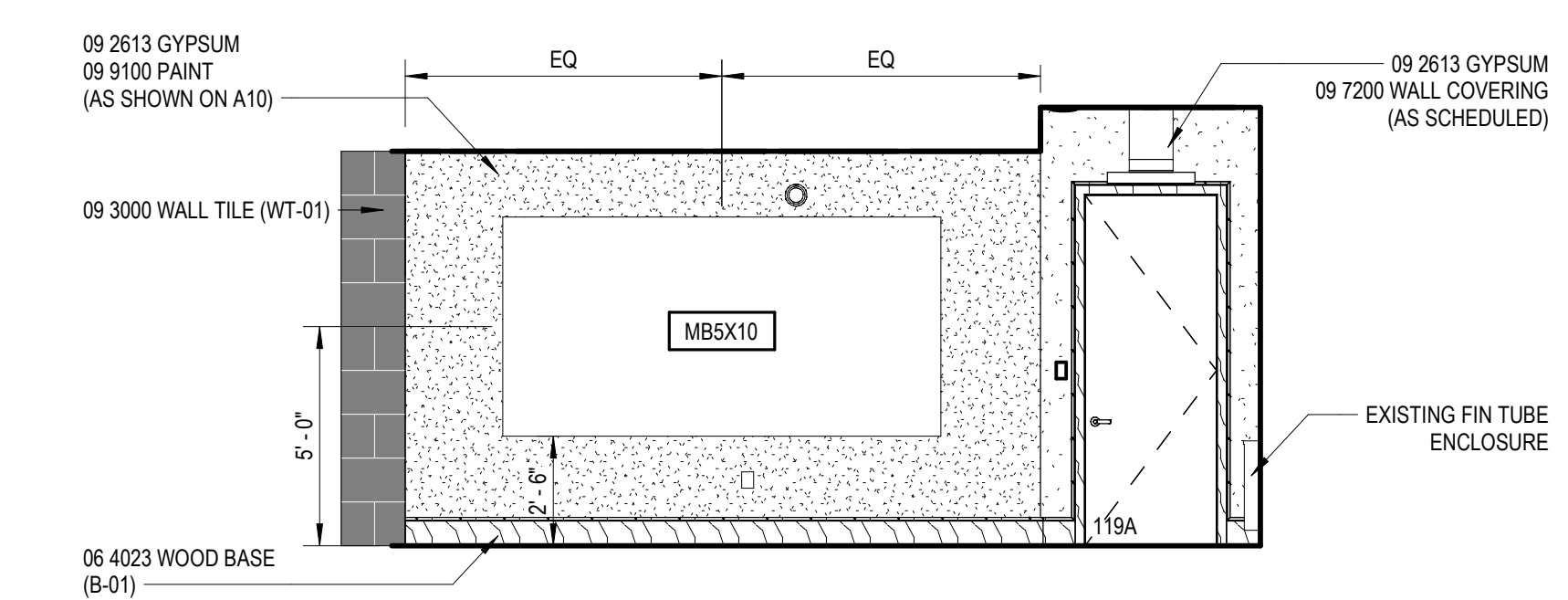
11
A2.1
1/2" = 1'-0"

WAITING - 119 WEST ELEVATION



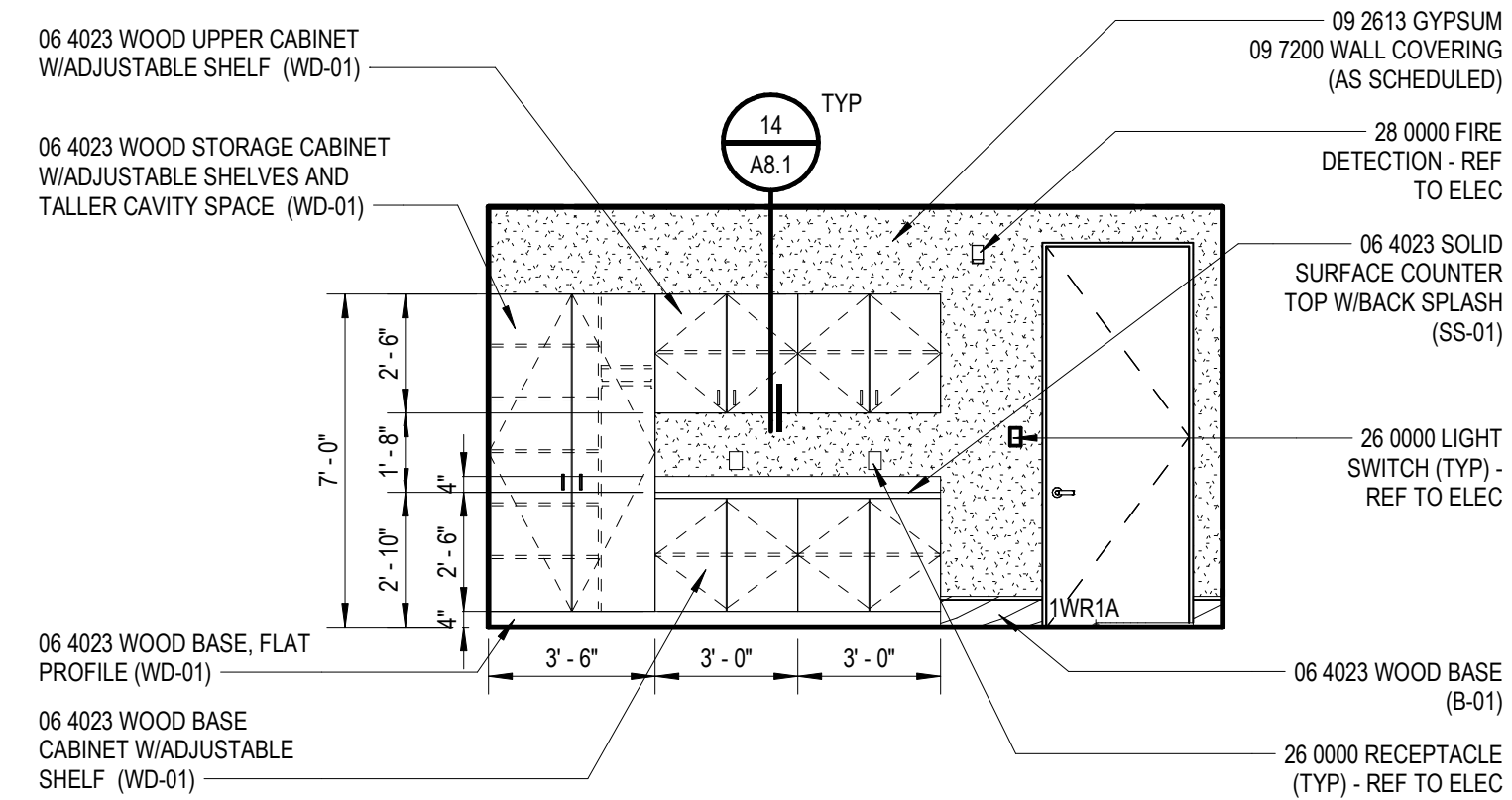
10
A2.1
1/2" = 1'-0"

WAITING - 140 SOUTH ELEVATION



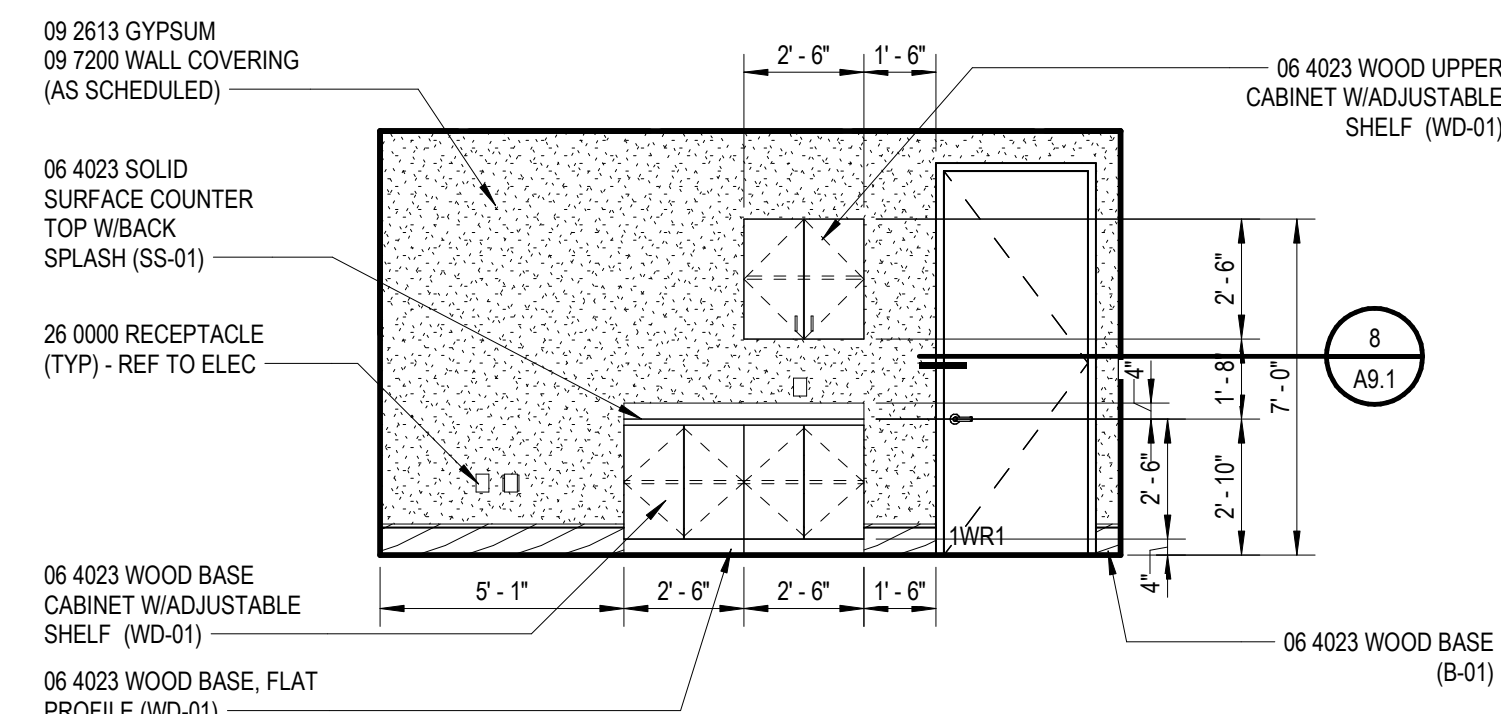
9
A2.1
1/4" = 1'-0"

BOARDROOM 118 - WEST ELEVATION



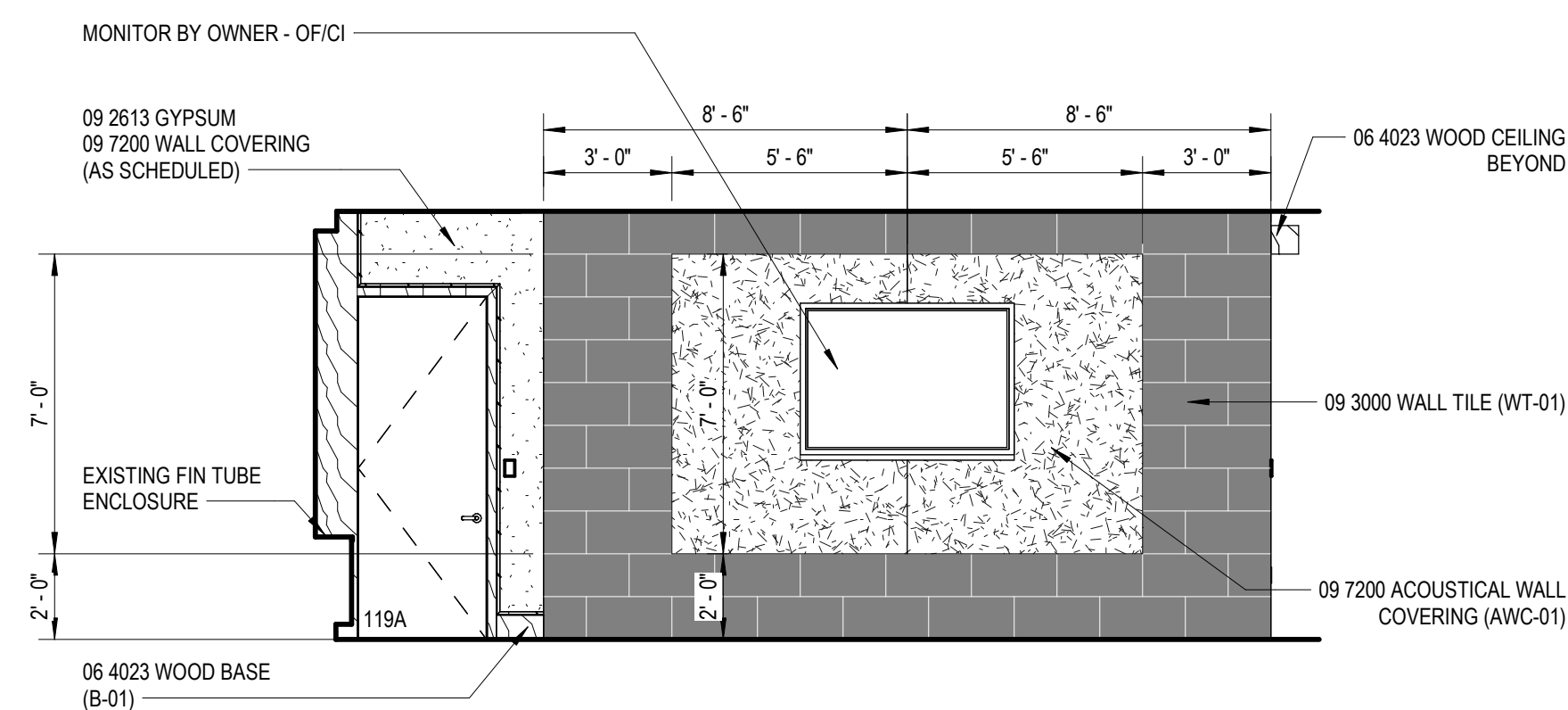
8
A2.1
1/4" = 1'-0"

WORK ROOM - 1WR1 WEST ELEVATION



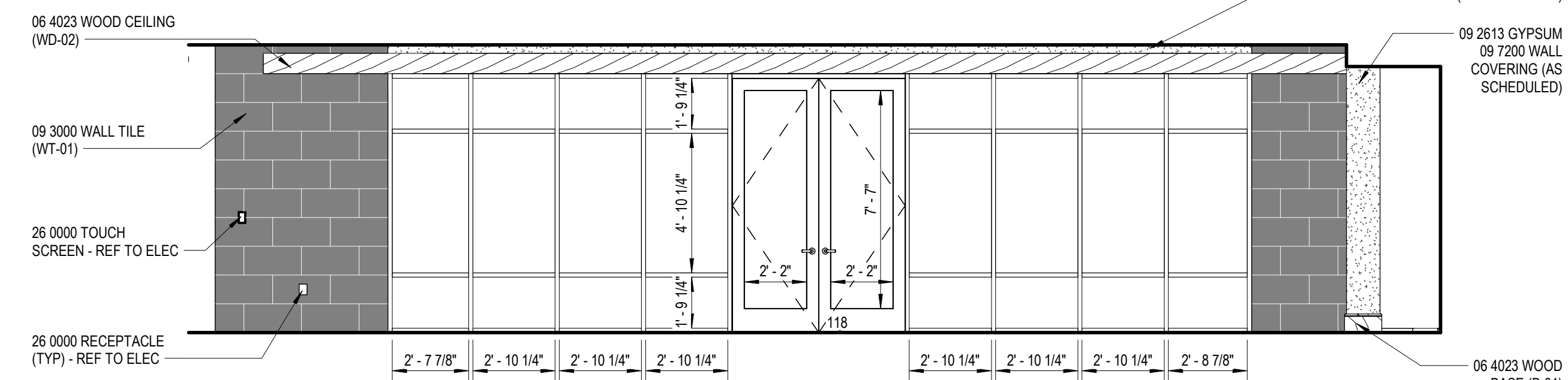
7
A2.1
1/4" = 1'-0"

WORK ROOM - 1WR1 EAST ELEVATION



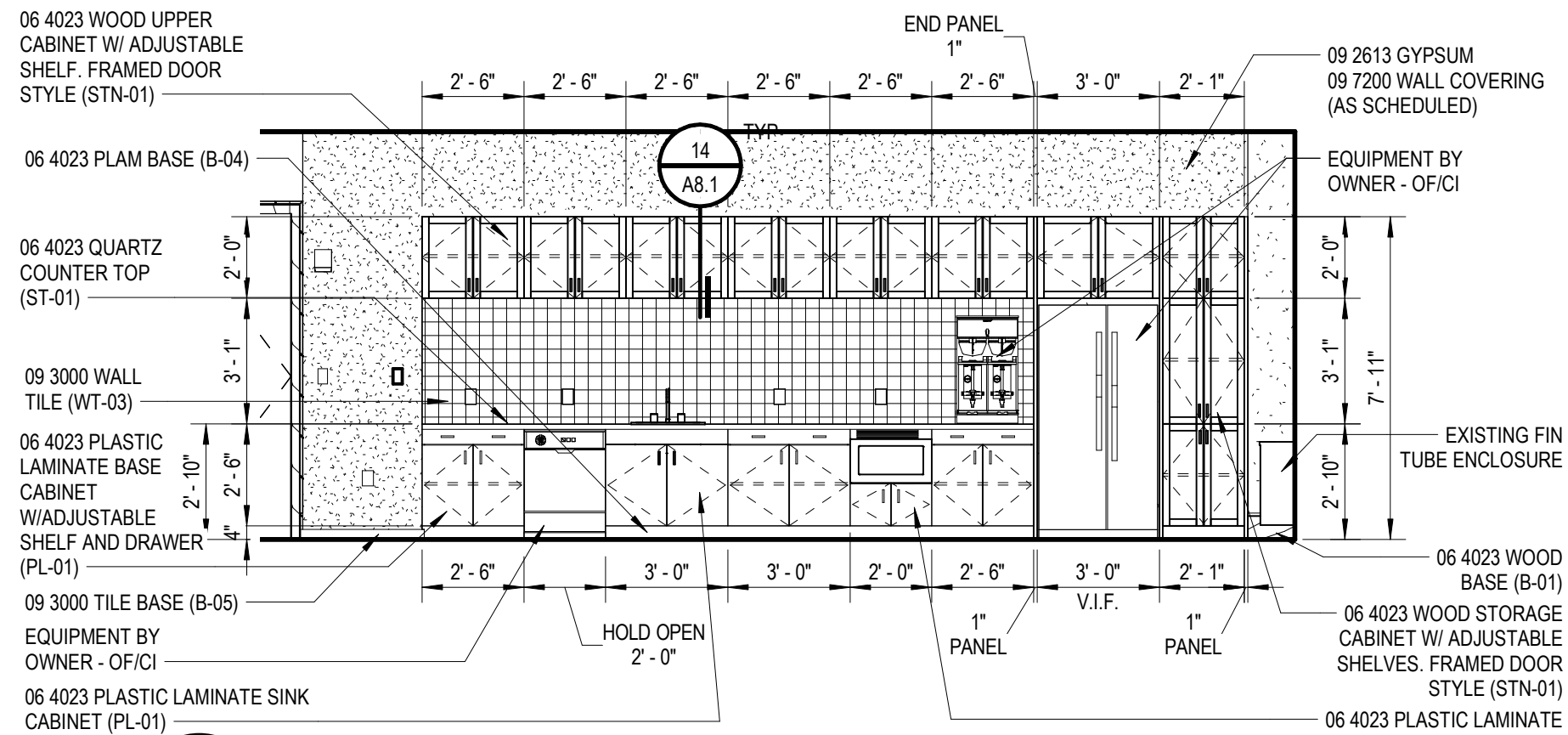
6
A2.1
1/4" = 1'-0"

KITCHENETTE - 119A EAST ELEVATION



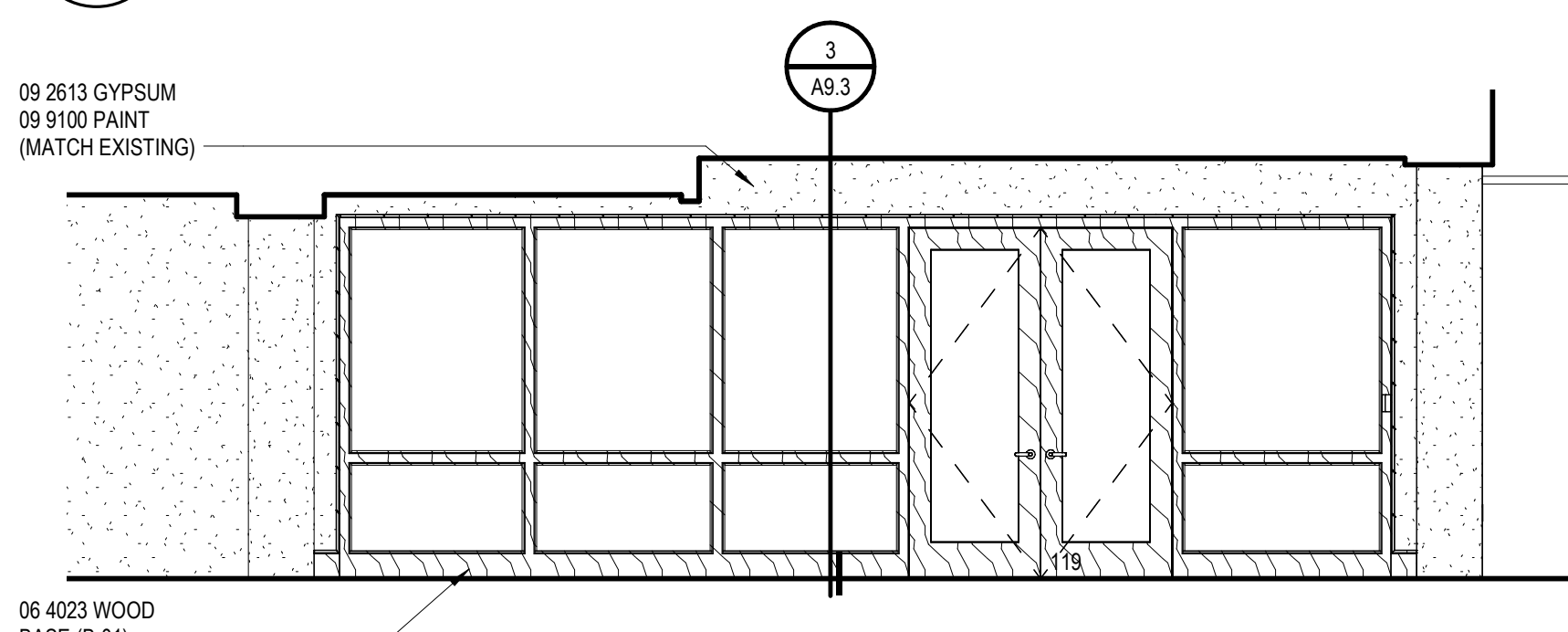
5
A2.1
1/4" = 1'-0"

WAITING - 119 NORTH ELEVATION



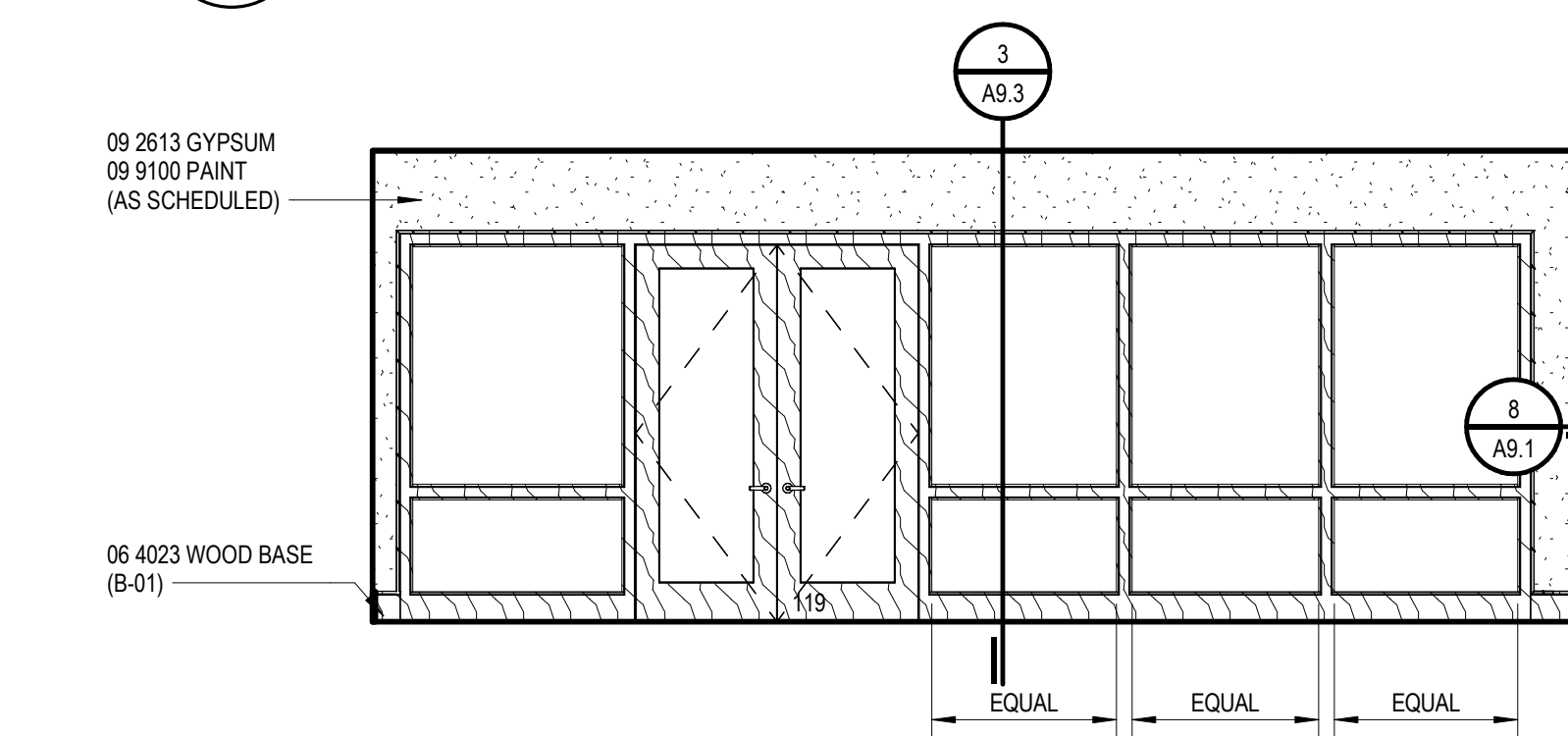
4
A2.1
1/4" = 1'-0"

KITCHENETTE - 119A WEST ELEVATION



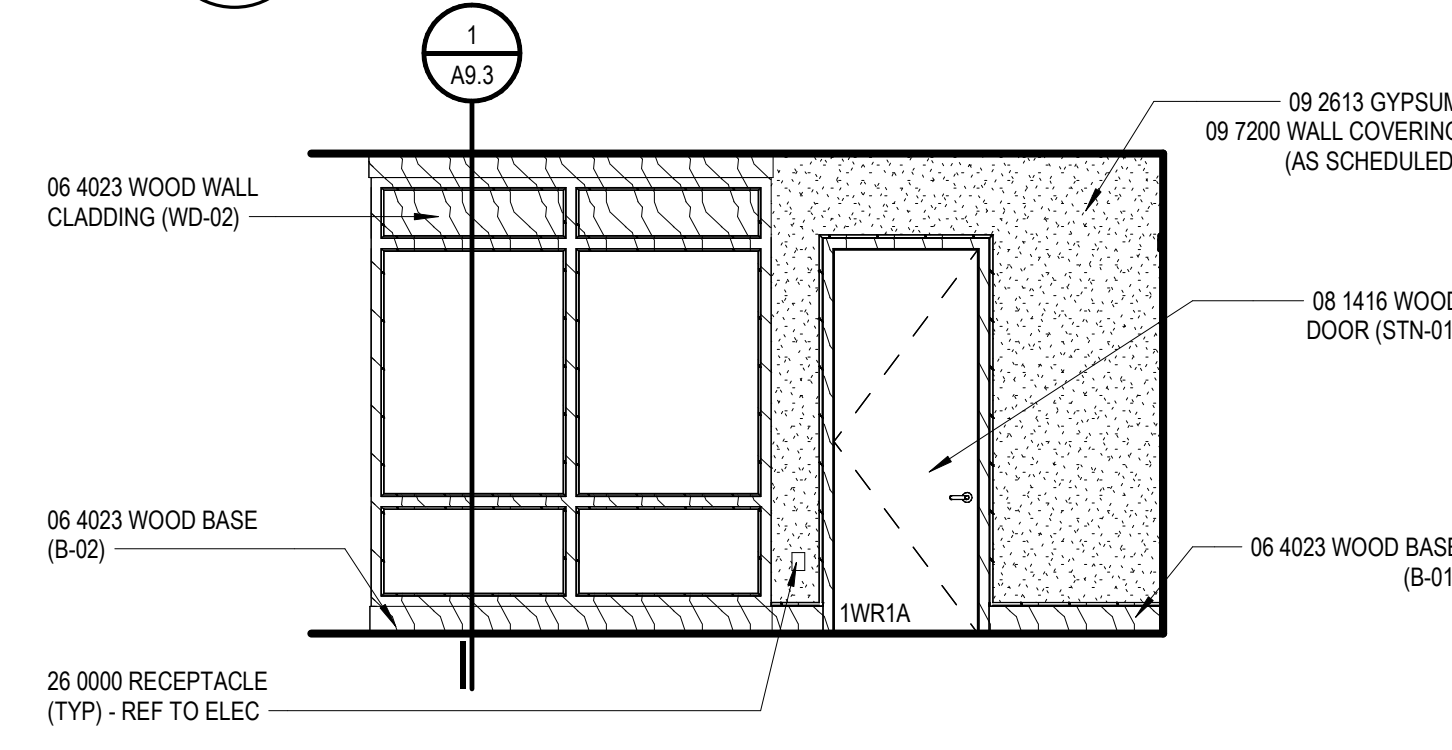
3
A2.1
1/4" = 1'-0"

CORRIDOR - 1HW1 NORTH ELEVATION



2
A2.1
1/4" = 1'-0"

WAITING - 119 SOUTH ELEVATION



1
A2.1
1/4" = 1'-0"

CORRIDOR - 1HW3 EAST ELEVATION

GENERAL NOTES

INTERIOR ELEVATIONS

- ALL DIMENSIONS ARE TO FACE OF GYP BOARD UN.
- COORDINATE THE INTERFACING OF ALL TRADES WITH RESPECT TO DELIVERY AND INSTALLATION OF ALL FIXTURES AND EQUIPMENT.
- CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BEFORE INSTALLATION. CONSULT ARCHITECT WHEN ACTUAL FIELD CONDITIONS VARY FROM THOSE SHOWN ON CONSTRUCTION DOCUMENTS.
- COORDINATE LOCATIONS OF ALL REQUIRED UTILITIES WITH THE TRADE PROVIDING THE SAME. REFER TO MECHANICAL AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.
- FASTEN ALL TALL CASES TO THE ADJOINING WALL THROUGH THE BACK OR SIDE OF THE UNIT.
- ALL COUNTERTOPS INSTALLED ALONG A WALL OR EQUIPMENT ARE TO HAVE 4" BACKSPLASH AND SIDE SPLASH UN.
- FINISH ALL EXPOSED ENDS AND BACKS OF FREESTANDING CASEWORK/ MILLWORK.
- PROVIDE LOCKS ON ALL CABINET DOORS AND DRAWERS UN. ALL LOCKS SHOULD BE KEYPED ALIKE BY ROOM. PROVIDE MASTER KEYING.
- REFER TO A8.1 ROOM FINISH SCHEDULE FOR COLORS AND FINISHES OF MATERIALS.
- REFER TO PLANS, SECTIONS AND DETAILS FOR CASEWORK DEPTH.
- PROVIDE CABINET FILLERS AS NEEDED.
- FURNITURE AND SPECIALTY EQUIPMENT BY OTHERS SHOWN FOR REFERENCE ONLY.
- FURNITURE SHOWN AT HALFTONE BY OWNER.
- PROVIDE PARTITION REINFORCEMENT AT LOCATIONS OF WALL MOUNTED EQUIPMENT. REFER TO DETAIL A8.1 FOR TYPICAL REQUIREMENTS AT NEW CONSTRUCTION. CONDITIONS MAY VARY AT EXISTING PARTITIONS.
- NOT ALL SIGN LOCATIONS ARE ELEVATED.
- COORDINATE LOCATIONS OF ALL REQUIRED UTILITY CONNECTIONS AND/OR REQUIREMENTS WITH THE TRADE PROVIDING THE SAME.

LEGEND

INTERIOR ELEVATIONS

NOTE: NOT ALL SYMBOLS MAY BE USED

- XXXX 06 4023 CASEWORK / MILLWORK TAG
- XXXX 10 1100 VISUAL DISPLAY SURFACE MB-MARKERBOARD, TK-TACKBOARD XXXX INDICATES BOARD SIZE
- XXXX SPECIALTY EQUIPMENT BY OTHERS REFER TO FF&E OR TECHNOLOGY PACKAGES
- XX-XX ACCENT MATERIAL. REFER TO COLOR CODES

LEGEND

ELEVATION MATERIALS

NOTE: NOT ALL SYMBOLS MAY BE USED

- WOOD WD-01
- WALL TILE WT-01
- WALL TILE WT-02
- WALL TILE WT-03
- WALL TILE WT-04
- WALL TILE WT-05
- WALL TILE WT-06

Project Title



Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan

Project Administrator	
Administrator	
Project Designer	
K. Litwin/T. Easthope	
Project Architect / Engineer	
K. Marshall	
Drawn By	
T. Easthope, K. Marshall	
Q.M. Review	
N. LaForest	
Approved	
B. Sundberg	
Drawing Scale	
As Noted	

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Bids	07-15-2021

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IDS Drawing Title

Interior Elevations

103 Project Number

Drawing Number

20120-2000

A8.1

ABBREVIATIONS

ROOM FINISH SCHEDULE

AC PANEL	ACOUSTICAL PANEL
AC TILE	ACOUSTICAL WALL PANEL
AC WP	COLOR CODE
CC	COLOR CODE
CMU	CONCRETE MASONRY UNIT
CT	CERAMIC TILE
CEM PLAS	CEMENT PLASTER
CONC	CONCRETE
DEFS	DIRECT APPLIED EXTERIOR FINISH SYSTEM
EPS	EXISTING FINISH
E PT	EXTERIOR INSULATION FINISH SYSTEM
E TERR	EPOXY TERRAZZO
ENTR MAT	ENTRY MAT SYSTEM
EXP CONST	EXPOSED CONSTRUCTION
FWC	FABRIC WALL COVERING
GF CMU	GROUND FACE CONCRETE MASONRY UNIT
GL CMU	GLAZED CONCRETE MASONRY UNIT
GYP BD	GYPSUM BOARD
HDSLR	HARDENER SEALER
R GYP BD	R GYP BD
LIMEST	LIMESTONE
LIN MET	LINEAR METAL
LINO	LINOLEUM
MCC	MULTI-COLORED COATING
MET PANEL	METAL PANEL
PLAM	PLASTIC LAMINATE
PAVER T	PAVER TILE
PLAS	PLASTER
POC CONC	POLISHED CONCRETE
PORC T	PORCELAIN TILE
PT	PAINT
QT	QUARRY TILE
RT	RUBBER TILE
RESIN FLR	RESINUS FLOORING
RESIL	RESILIENT
SOFT	STRUCTURAL GLAZED FACING TILE
SHT V	SHEET VINYL
SS	SOLID SURFACE MATERIAL
STN	STAINLESS STEEL
TC	TRAFFIC COATING
TERR	TERRAZZO
VCT	VINYL COMPOSITION TILE
VVC	VINYL WALLCOVERING
VEN PLAS	VEENER PLASTER
WD	WOOD

GENERAL NOTES

ROOM FINISH SCHEDULE

- * REFER TO ABBREVIATIONS LIST FOR MATERIAL CODE DESCRIPTIONS
- A. "ROOM NUMBER AND ROOM NAME" CORRESPOND TO THE NUMBER AND NAMES INDICATED ON THE SHEETS.
- B. "MATERIAL/FINISH" INDICATE THE SPECIFIC MATERIALS AND FINISHES TO BE USED TO CONSTRUCT AND FINISH THE FLOORS, BASE, WALLS AND CEILINGS.
- C. "CC" INDICATES THE COLOR CODE FOR EACH MATERIAL AND/OR FINISH. REFER TO "COLOR CODES".
- D. "REMARKS" INDICATES ANY SPECIAL REQUIREMENTS FOR THE MATERIAL AND FINISH IN A ROOM - SEE "ROOM FINISH SCHEDULE REMARKS".
- E. "CEILING" IS THE MATERIAL AND FINISH AT THE UNDERSIDE OF THE FLOOR OR ROOF ABOVE. "SOFFIT" IS THE MATERIAL AND FINISH AT THE UNDERSIDE OF THE STAIR RUN.
- F. REFER TO A10 SERIES FOR FLOOR TILE PATTERNS AND MATERIALS.
- G. REFER TO A8 SERIES FOR INTERIOR ELEVATIONS.
- H. "E" PREFIX TO THE "PT" CODE REFER TO EPOXY PAINT MATERIAL (E PT-XX).

REMARKS

ROOM FINISH SCHEDULE

1. PLASTIC LAMINATE BASE (B-04) TO BE INSTALLED AT KITCHEN CABINETS ONLY
2. INCLUDE (1) ROBE HOOK ON BACK OF DOOR

GENERAL NOTES

DOOR SCHEDULE

- A. REFER TO THE DRAWINGS FOR DOOR LOCATIONS
- B. "DOOR NUMBER" CORRESPONDS TO THE DOOR NUMBER INDICATED ON THE DRAWINGS. NOTE: AT EXISTING WALL OPENINGS, FIELD VERIFY SIZE OF DOORS AND FRAMES.
- C. (DOOR) "SIZE" INDICATES THE NOMINAL WIDTH AND HEIGHT OF THE DOOR IN FEET AND INCHES. ALL DOORS ARE 1 3/4" THICK UNLESS OTHERWISE NOTED.
- D. "DOOR AND FRAME TYPE/MATL/FINISH" INDICATES THE CODES FOR TYPE (INDICATED ON THE DRAWINGS), MATERIAL AND FINISH.
- E. "CC" INDICATES THE COLOR CODE FOR FINISHES OF DOORS AND FRAMES. SEE "SCHEDULE - COLOR CODES".
- F. "DETAILS HEAD - JAMB-SILL" INDICATES THE DETAIL NUMBER INDICATED ON THE DRAWINGS.
- G. "HARDWARE SET" INDICATES HARDWARE SET NUMBERS SPECIFIED IN 08 7100 - DOOR HARDWARE.
- H. "DOOR ASSEMBLY RATING" INDICATES THE MINIMUM FIRE RESISTANCE RATING FOR FIRE DOORS AND/OR SIDELITES.
- I. "WALL RATINGS" INDICATES THE FIRE RESISTANCE RATINGS OF THE WALL CONTAINING THE DOOR.
- J. "FRGM" INDICATES FIRE-RATED GLAZING MARKINGS.
- K. "REMARKS" INDICATES ANY SPECIAL REQUIREMENTS FOR A DOOR AND FRAME - SEE "DOOR SCHEDULE - REMARKS".

REMARKS

DOOR SCHEDULE

1. ACCESS CONTROL SYSTEM
2. REMOVABLE MULLION
3. LOW ENERGY POWER OPERATED DOOR
4. DOOR, FRAME AND HARDWARE SALVAGED FROM EXISTING - SEE DEMOLITION PLAN
5. HOLLOW METAL ASTRAHAL
6. 08 7100 FLOOR STOPS MOUNTED TO WOOD CEILING

SCHEDULE - ROOM FINISH

NUMBER	NAME	FLOOR	BASE	WALL	CEILING	REMARKS
1HW1	CORRIDOR	(E)	B-01	PT-05	GYPPT-05, AC-01	
1HW2	CORRIDOR	CPT-02	B-01	WC-01	AC-01	
1HW3	CORRIDOR	CPT-02	B-01, 02	WD-01, WC-01	GYPPT-02, AC-01	
1MR1	MEETING ROOM	CPT-03	B-01	PT-03	AC-01	
1TR1	PRIVATE TOILET ROOM	FT-02, 03	-	WT-02, 05, WC-02	GYPPT-02	2
1TR2	TOILET ROOM	FT-02, 03	-	WT-02, 05, WC-02	GYPPT-02	2
1TR3	SHOWER/ TOILET ROOM	FT-02, 03, 04	-	WT-02, 04, 05, 06, WC-02	GYPPT-02	2
1VB1	VESTIBULE	CPT-05	B-03	PT-01	GYPPT-02	
1WR1	WORK ROOM	CPT-03	B-01	WC-01	AC-01	
118	BOARD ROOM	CPT-03, FT-01	B-01	PT-03, WC-01, WT-01	GYP-01, WD-03	
118A	CLOSET	FT-01	B-01	PT-01	EXP	
119	FOYER/ WAITING	CPT-01, 02, 03, 04, FT-01	B-01, 02	PT-04, WC-01, WT-01	GYPPT-02, 04, AC-01	
119A	KITCHENETTE	FT-01	B-01, 04, 05	WC-01, WT-01	GYPPT-02, AC-01	1
119B	CLOSET	CPT-01	B-01	PT-01	GYPPT-02	
122	EXECUTIVE OFFICE	(E)	(E)	(E), WC-01	(E)	

SCHEDULE - COLOR CODES

COLOR CODES	PRODUCT / MATERIAL	MANUFACTURER	PRODUCT NAME / NUMBER	COLOR NAME / NUMBER	SIZE	FINISH	NOTES
AC-01	ACOUSTICAL CEILING TILE	USG	ASTRO FIRE CODE/8722	WEI 150	24" X 24"	ROLL	USG FINELINE 1/8 DXFF 9/16" GRID
AWC-01	ACOUSTICAL WALL COVERING	FILZFELT	3MM WOOL DESIGN FELT	STAIN TO MATCH EXISTING			KITCHEN
B-01	WOOD BASE			STAIN TO MATCH WD-02			WOOD WALL INTEGRATED BASE
B-03	RESIL BASE	TARKETT	TRADITIONAL	MOONROCK / 29	4"H		VESTIBULE ONLY
B-04	PLASTIC LAMINATE BASE	FORMICA	NEUTRAL WHITE	WHITE/ FALDA	4"H		KITCHEN LOWER CASEWORK
B-05	TILE BASE	ERGON	STONE PROJECT	WHITE/ FALDA	3" X 24"		RECTIFIED BULLNOSE
CPT-01	CARPET TILE	MILLIKEN	COUNTERCULTURE / FREETHINKER	DIVERGENCE / 218 FTR79	20" X 20"		INSTALL ASHLAR
CPT-02	CARPET TILE	MILLIKEN	COUNTERCULTURE / PHENOM	DIVERGENCE / 218 FTR79	20" X 20"		INSTALL ASHLAR
CPT-03	CARPET TILE	PATCRAFT	URBAN RELIEF / SUBURBAN	TRANSIT / 00400	24" X 24"		INSTALL MONOLITHIC
CPT-04	SHEET CARPET	SHAW CONTRACT	RIBBONS / 5A266	SHINE / 66155	15'-0" X 12'-0"		INSTALL AS AREA RUG
CPT-05	CARPET TILE	MILLIKEN	OBEX ENTRANCE FLOORING/CUT	FIZZ / GREY	19.7" X 19.7"		WALK OFF CARPET, INSTALL MONOLITHIC
EXP	EXPOSED						
FT-01	FLOOR TILE	ERGON	STONE PROJECT	WHITE/ FALDA	12" X 24"		REF TO FINISH PLANS AND ELEVATIONS FOR INSTALL DIRECTION
FT-02	FLOOR TILE	CAESAR	JOIN	LEVITY	12" X 24"		REF TO FINISH PLANS AND ELEVATIONS FOR INSTALL DIRECTION
FT-03	FLOOR TILE	CAESAR	JOIN	INK	5" X 24"		REF TO FINISH PLANS AND ELEVATIONS FOR INSTALL DIRECTION
FT-04	FLOOR TILE	CAESAR	JOIN	LEVITY	5" X 24"		REF TO FINISH PLANS AND ELEVATIONS FOR INSTALL DIRECTION
GR-01	GROUT	TEC	INCOLOR	STERLING 909			INSTALL IN FT-01
GR-02	GROUT	TEC	INCOLOR	MST 939			INSTALL IN TOILET ROOMS
GR-03	GROUT	TEC	INCOLOR	DOVE GRAY 908			INSTALL IN WT-01
GR-03	GROUT	TEC	INCOLOR	RAVEN 941			INSTALL IN WT-03
GYP	GYP BOARD/CEILING						
PL-01	PLASTIC LAMINATE	FORMICA	NEUTRAL WHITE	GRAYSTONE			KITCHEN LOWER CASEWORK
PL-02	PLASTIC LAMINATE	FORMICA	GRAYSTONE	PEARLY WHITE / SW 7009			INTERIOR OF MILLWORK DESK
PT-01	PAINT	SHERWIN WILLIAMS	WHITE	WHITE			GENERAL
PT-02	PAINT	SHERWIN WILLIAMS	WHITE	WHITE			CEILING
PT-03	PAINT	SHERWIN WILLIAMS	SMOXY BLUE / SW 7604	ACCENT BLUE			ACCENT NEUTRAL
PT-04	PAINT	SHERWIN WILLIAMS	SHITAKE / SW 9173	ACCENT NEUTRAL			ACCENT NEUTRAL
PT-05	PAINT	SHERWIN WILLIAMS	WHITE	MATCH EXISTING			FIELD VERIFY
SC-01	SHADE CLOTH	DRAPER	SHEERWEAVE - BASIC 3%	WHITE			ACOUSTICAL FABRIC
SS-01	SOLID SURFACE	LG HAUSYS	H-IMACS	BIRCH BARK NR G714			KITCHEN COUNTER
ST-01	QUARTZ	LG HAUSYS	VATERRA	ROCCOCO			MILLWORK DESK
ST-02	QUARTZ	LG HAUSYS	VATERRA	MICA			MILLWORK DESK
STN-01	WOOD STAIN			MATCH EXISTING			GENERAL
WC-01	WALL COVERING	MAHARAM	ERA / 300662	POETIC / 001			GENERAL
WC-02	WALL COVERING	ARCCOM	INTUITION / ACW-53518	MIDNIGHT BLUE #6			TOILET ROOMS
WD-01	WOOD			STAIN TO MATCH EXISTING			REF TO SPECIFICATIONS
WD-02	WOOD			STAIN TO MATCH EXISTING			REF TO SPECIFICATIONS
WD-03	WOOD CEILING			STAIN TO MATCH EXISTING			CEILING IN BOARD ROOM, REF TO SPECIFICATIONS
WT-01	WALL TILE	ERGON	STONE PROJECT	GREIGE / FALDA	12" X 24"		REF TO FINISH PLANS AND ELEVATIONS FOR INSTALL DIRECTION
WT-02	WALL TILE	CAESAR	JOIN	LEVITY	12" X 24"		REF TO FINISH PLANS AND ELEVATIONS FOR INSTALL DIRECTION
WT-03	WALL TILE	MARAZZI	ZELLIGE	CHINA	4" X 4"		REF TO FINISH PLANS AND ELEVATIONS FOR INSTALL DIRECTION
WT-04	WALL TILE	CAESAR	JOIN	LEVITY	5" X 24"		REF TO FINISH PLANS AND ELEVATIONS FOR INSTALL DIRECTION
WT-05	WALL TILE	CAESAR	JOIN	LEVITY	3" X 24"		REF TO FINISH PLANS AND ELEVATIONS FOR INSTALL DIRECTION
WT-06	WALL TILE	CAESAR	JOIN	INK	5" X 24"		REF TO FINISH PLANS AND ELEVATIONS FOR INSTALL DIRECTION

SCHEDULE - WINDOW SHADES

TYPE	LENGTH	WIDTH	HOUSING	MANUFACTURER	MATERIAL	MECHANISM	MOUNTING
W1	7'-6 1/2"	5'-3 1/2"	0"	DRAPER	SC-01	MOTORIZED- SINGLE ROLLER	TOP MOUNT, SMALL HEAD BOX
W1.2							
W2	7'-6 1/2"	5'-5"	0"	DRAPER	SC-01	MOTORIZED- SINGLE ROLLER	TOP MOUNT, SMALL HEAD BOX
W2.1							
W3	7'-6 1/2"	5'-3 1/2"	0"	DRAPER	SC-01	MOTORIZED- SINGLE ROLLER	TOP MOUNT, SMALL HEAD BOX
W3.1							
W4	7'-6 1/2"	5'-6"	0"	DRAPER	SC-01	MOTORIZED- SINGLE ROLLER	TOP MOUNT, SMALL HEAD BOX
W4.4							
W5	7'-6 1/2"	5'-4 3/4"	0"	DRAPER	SC-01	MOTORIZED- SINGLE ROLLER	TOP MOUNT, SMALL HEAD BOX
W5.1							

DOOR SCHEDULE

DOOR NUMBER	SIZE			DOOR				FRGM	FRAME			FRGM	DETAILS			HARDWARE SET	DOOR ASSEMBLY RATING	WALL RATING	REMARKS
	WIDTH	LEAF 1	LEAF 2	HEIGHT	TYPE	MATERIAL	FINISH / CC		TYPE	MATERIAL	FINISH / CC		HEAD	JAMB	SILL				
1HW2	3'-0"	3'-0"		8'-0"	N	WD	STN-01	A	WD	STN-01		5/8A.1 SIM	5/8A.1	---	1		1		
1MR1	3'-0"	3'-0"		8'-0"	FG	WD	STN-01	A	WD	STN-01		1/8A.3 SIM	12/8A.4	---	2				
1TR1	3'-0"	3'-0"		8'-0"	F	WD	STN-01	A	WD	STN-01		5/8A.1 SIM	5/8A.1	1/8A.1	3				
1TR2	3'-0"	3'-0"		8'-0"	F	WD	STN-01	A	WD	STN-01		5/8A.1 SIM	5/8A.1	1/8A.1	3				
1TR3	3'-0"	3'-0"		8'-0"	F	WD	STN-01	A	WD	STN-01		5/8A.1 SIM	5/8A.1	1/8A.1	3				
1VB1	3'-0"	3'-0"		6'-11 1/8"	FGW	AL	PVF-01	SEE ELEV.	AL	PVF-01		5/8A.1	4/8A.1	3/8A.1	4		1		
1VB1A	3'-0"	3'-0"		6'-11 1/8"	(E)	AL	(E)	(E)	AL	(E)		5/8A.1	4/8A.1	---	5		1.4		
1WR1	3'-0"	3'-0"		8'-0"	F	WD	STN-01	A	WD	STN-01		8/8A.1 SIM	8/8A.1	---	6				
1WR1A	3'-0"	3'-0"		8'-0"	F	WD	STN-01	A	WD	STN-01		5/8A.1 SIM	5/8A.1	---	7				
118	6'-0"	3'-0"	3'-0"	8'-10"	FGW	AL	ANOD-01	SEE ELEV.	AL	ANOD-01		5/8A.1 SIM	5/8A.1	---	8		6		
118A	2'-8"	2'-8"		8'-0"	F	WD	STN-01	A	WD	STN-01		5/8A.1 SIM	3/8A.4	---	7				
119	6'-0"	3'-0"	3'-0"	8'-0"	FG	WD	STN-01	SEE ELEV.	A	WD	STN-01		5/8A.1 SIM	---	9		1		
119A	3'-0"	3'-0"		8'-0"	F	WD	STN-01	A	WD	STN-01		5/8A.1 SIM	5/8A.4	---	10				
119B	3'-0"	3'-0"		8'-0"	F	WD	STN-01	A	WD	STN-01		5/8A.1 SIM	5/8A.1	---	2				
122	3'-0"	3'-0"		8'-0"	(E)	WD	(E)	(E)	WD	(E)		5/8A.1 SIM	11/8A.4	---	5		4		

09 3000 METAL EDGE STRIP

09 3000 CERAMIC TILE (THINSET)

09 6813 CARPET TILE

09 6513 TAPERED SUBSTRATE TRANSITION STRIPS

T.O. FLR SLAB

09 6813 CARPET TILE

T.O. FLR SLAB

09 3000 MARBLE THRESHOLD (W/ 1/2 BEVEL - TYP)

09 6813 CARPET TILE

09 3000 CERAMIC TILE (THINSET)

T.O. FLR SLAB

09 3000 METAL EDGE STRIP

09 3000 CERAMIC TILE (THINSET)

09 6813 CARPET TILE

T.O. FLR SLAB

09 3000 METAL EDGE STRIP

09 3000 CERAMIC TILE (THINSET)

09 6813 CARPET TILE

T.O. FLR SLAB

09 3000 METAL EDGE STRIP

09 3000 CERAMIC TILE (THINSET)

09 6813 CARPET TILE

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09 3000 METAL EDGE STRIP

09 3000 CERAMIC TILE (THINSET)

09 6813 CARPET TILE

T.O. FLR SLAB

09 3000 METAL EDGE STRIP

09 3000 CERAMIC TILE (THINSET)

09 6813 CARPET TILE

T.O. FLR SLAB

09 3000 METAL EDGE STRIP

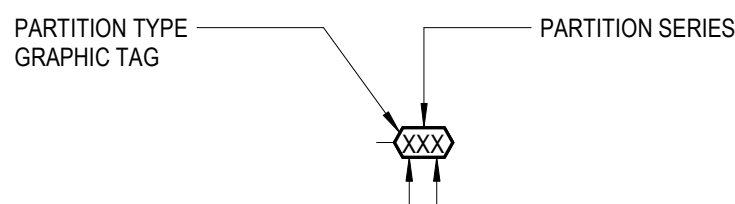
09 3000 CERAMIC TILE (THINSET)

09 6813 CARPET TILE

T.O. FLR SLAB

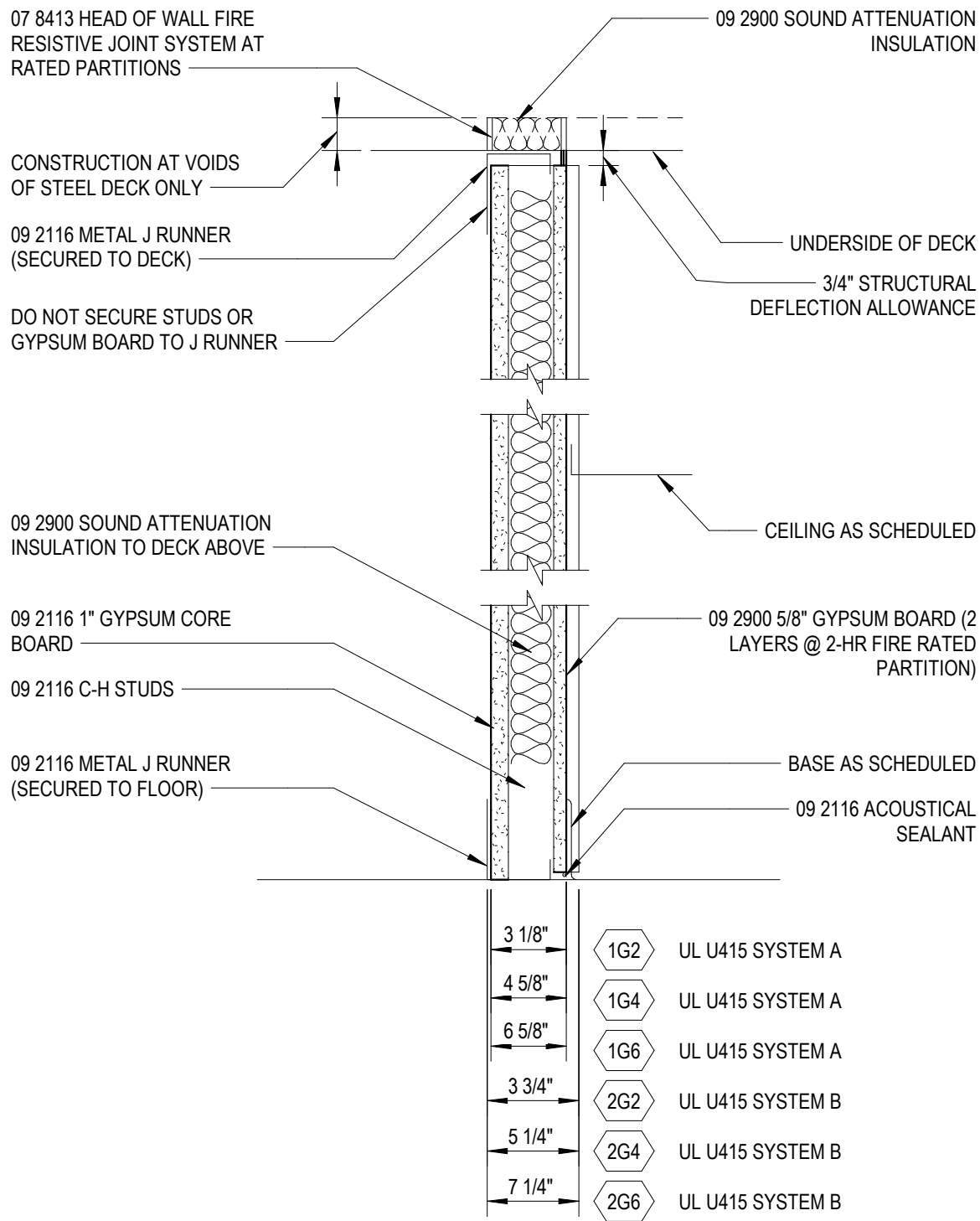
GENERAL NOTES

- INTERIOR PARTITIONS
- "WALL" AND "PARTITION" ARE USED TO DENOTE EITHER WALLS OR PARTITIONS INTERCHANGEABLY.
 - REFER TO SHEET AR-0 - ARCHITECTURAL REFERENCE INFORMATION FOR ABBREVIATIONS, SYMBOLS, AND GRAPHIC INDICATIONS.
 - REFER TO COMPOSITE LIFE SAFETY PLANS FOR PARTITION FIRE RATINGS.
 - REFER TO ROOM FINISH SCHEDULE FOR WALL FINISHES AND WALL BASE.

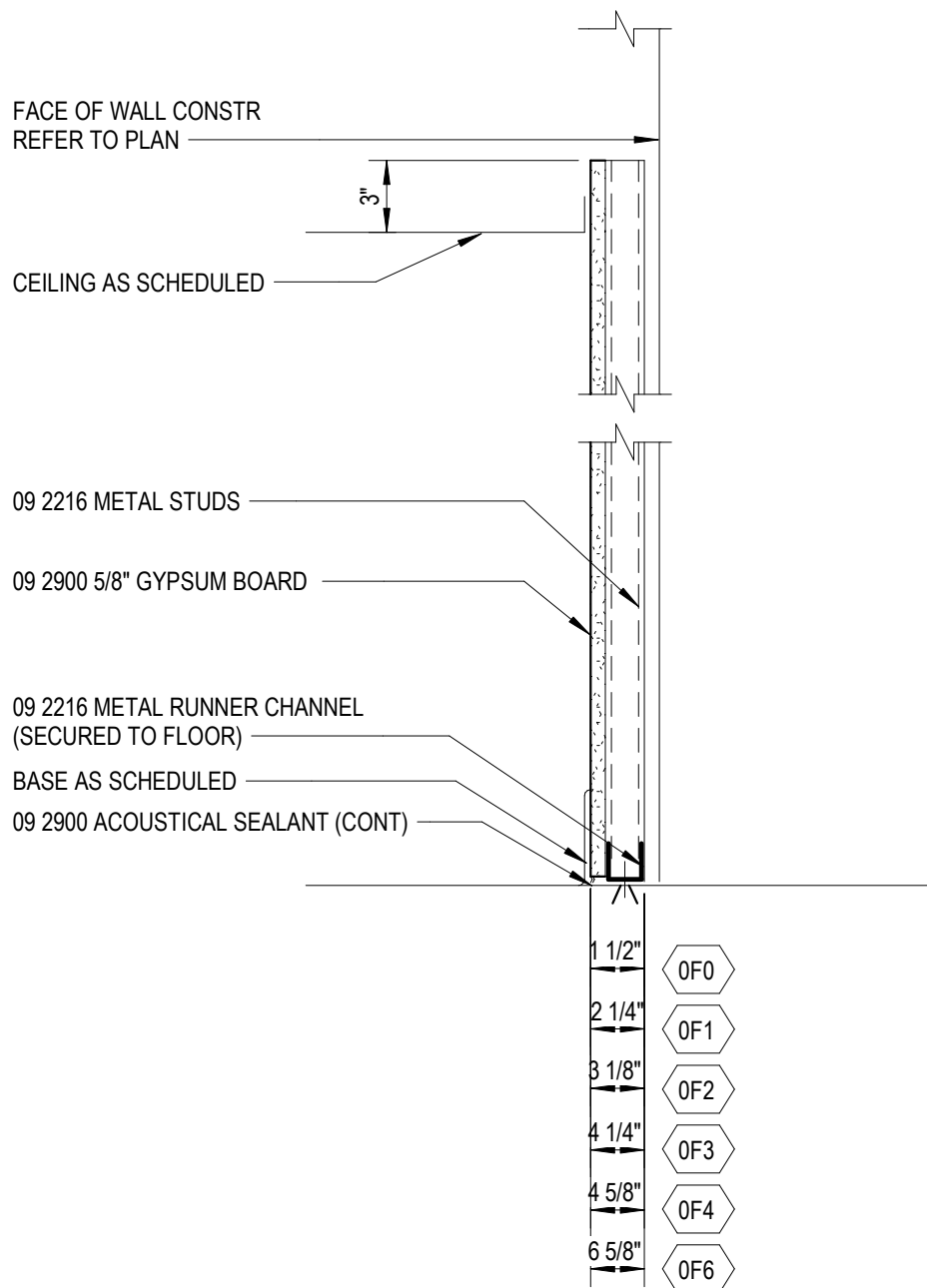


MATERIAL	DESIGNATION	SIZE	ACTUAL SIZE	SPACING
MASONRY	4	3 5/8"	N/A	16" OC
	6	5 5/8"		
	8	7 5/8"		
	12	11 5/8"		
STEEL STUDS	1	1 5/8"		16" OC
	2	2 1/2"		
	3	3 5/8"		
	4	4"		
FURRING	0	7/8"		16" OC
	1	1 5/8"		
	2	2 1/2"		
	3	3 5/8"		
SHAFTWALL C-H STUDS	2	2 1/2"		24" OC
	4	4"		
	6	6"		

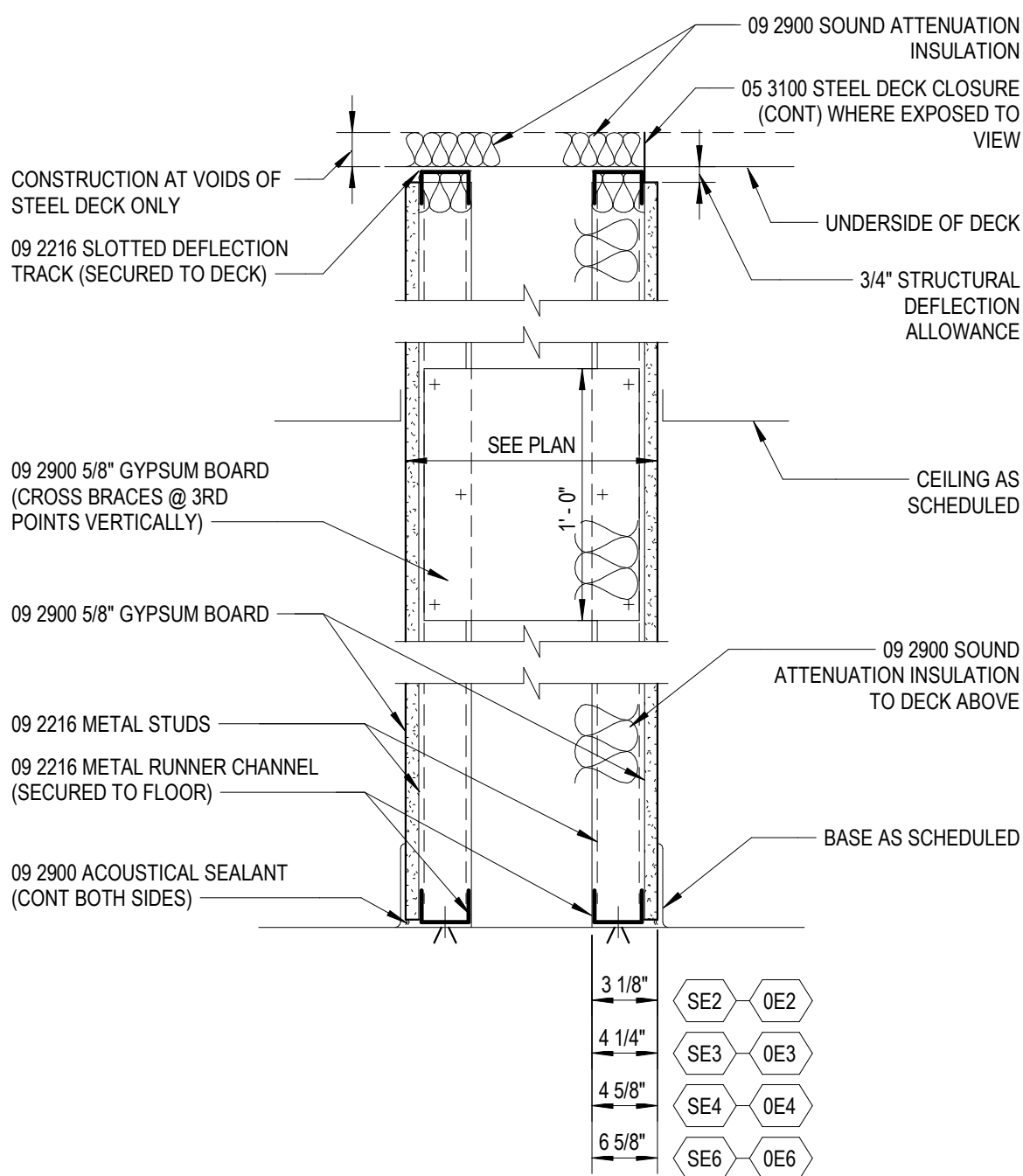
- SUBSTITUTE 09 2900 - TILE BACKING BOARD AT LOCATIONS TO RECEIVE A TILE WALL FINISH.
- ALL NON-LOAD BEARING METAL WALL FRAMING SHALL BE BASED ON TOTAL STUD HEIGHT. REFER TO SPECIFICATION SECTIONS 05 4000 - COLD-FORMED METAL FRAMING, 09 2116 - GYPSUM BOARD SHAFT WALL ASSEMBLIES AND 09 2216 - NON-STRUCTURAL METAL FRAMING FOR ADDITIONAL REQUIREMENTS.
- WHERE ROOMS WITH DIFFERENT PARTITION REQUIREMENTS ARE ADJACENT, THE PARTITION WITH THE GREATER FIRE-RATING AND/OR STC SHALL BE USED BETWEEN THEM.
- AT INTERSECTIONS OF DIS-SIMILAR PARTITION TYPES, THE HIGHEST RATED PARTITION IS TO RUN THROUGH THE INTERSECTION TO MAINTAIN ENCLOSURE. MAINTAIN RATING OF RATED PARTITION AT INTERSECTION WITH COLUMN ENCLOSURES BY EXTENDING RATED CLOSURE AS REQUIRED.
- FIRE-RATED PARTITIONS SHALL BE CONSTRUCTED ACCORDING TO THE FIRE TEST INDICATED. NO SUBSTITUTIONS OF MATERIALS OR DEVIATIONS FROM CONSTRUCTION ARE ALLOWED. ADDITIONAL LAYERS MAY BE REQUIRED FOR ACOUSTICAL OR OTHER REASONS AND MUST BE EXECUTED AS SHOWN.
- STC RATINGS ARE MINIMUM ACOUSTICAL PERFORMANCE REQUIREMENT. SPECIFIC ACOUSTICAL TESTS ARE GIVEN FOR REFERENCE ONLY. SOUND ATTENUATION BLANKET THICKNESS SHALL BE AS FOLLOWS:
 - 1 1/2" FOR PARTITIONS WITH 1 5/8" AND 2 1/2" STUDS (INCLUDING SHAFTWALLS).
 - 3" FOR PARTITIONS WITH 3 5/8", 4" OR 6" STUDS.
 - 3" FOR SHAFTWALLS WITH 4" OR 6" STUDS UNO.
 - AS REQUIRED FOR FIRE RATING.
- DETAILS ARE DIAGRAMMATIC - PRECISE REQUIREMENTS OF TESTS ASSEMBLIES SHALL GOVERN.



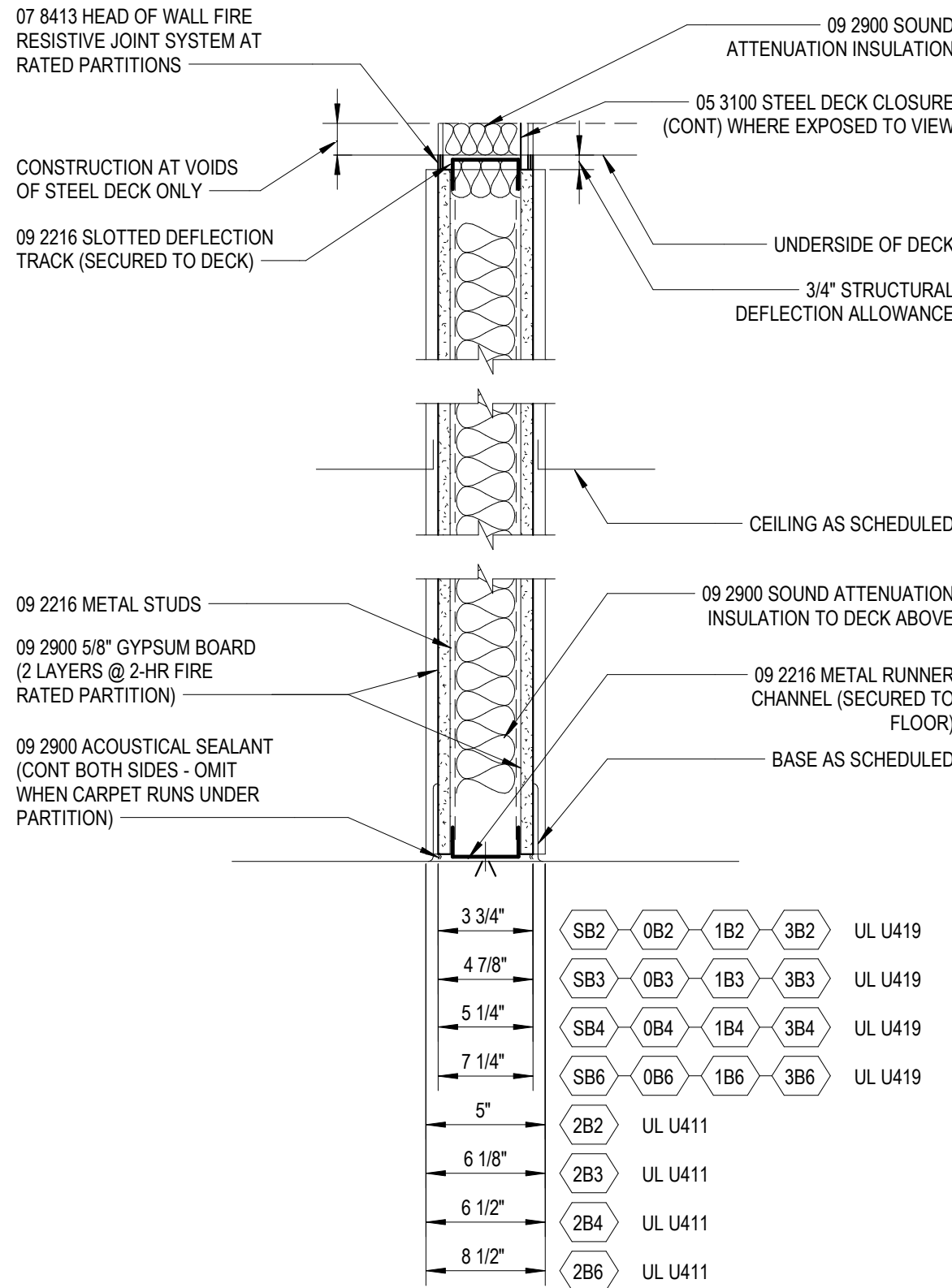
PARTITION SERIES 'G'



PARTITION SERIES 'F'



PARTITION SERIES 'E'



PARTITION SERIES 'B'

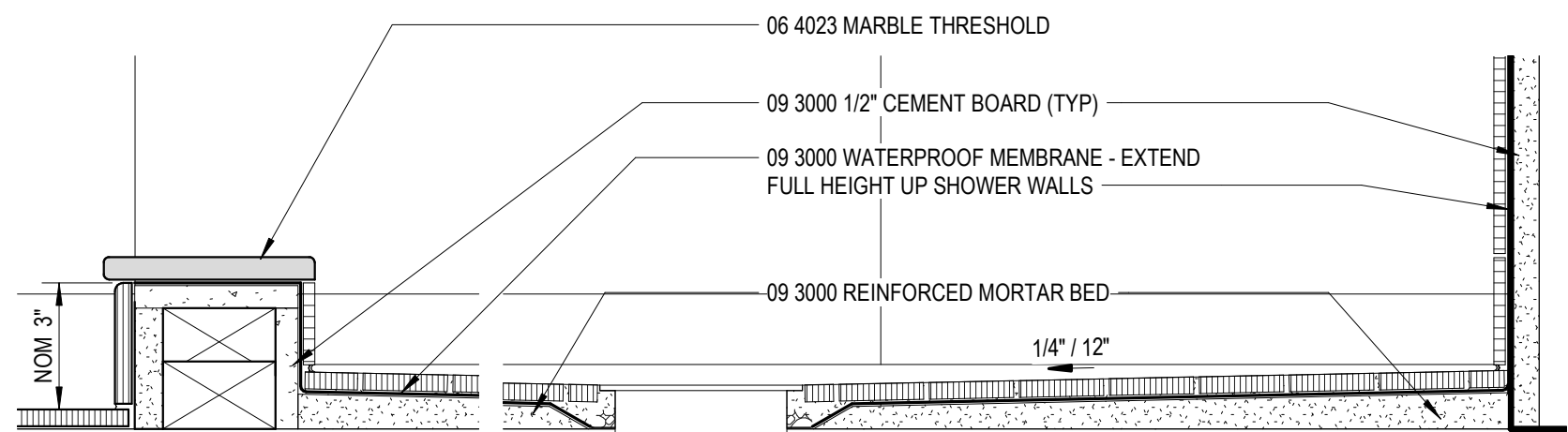
Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

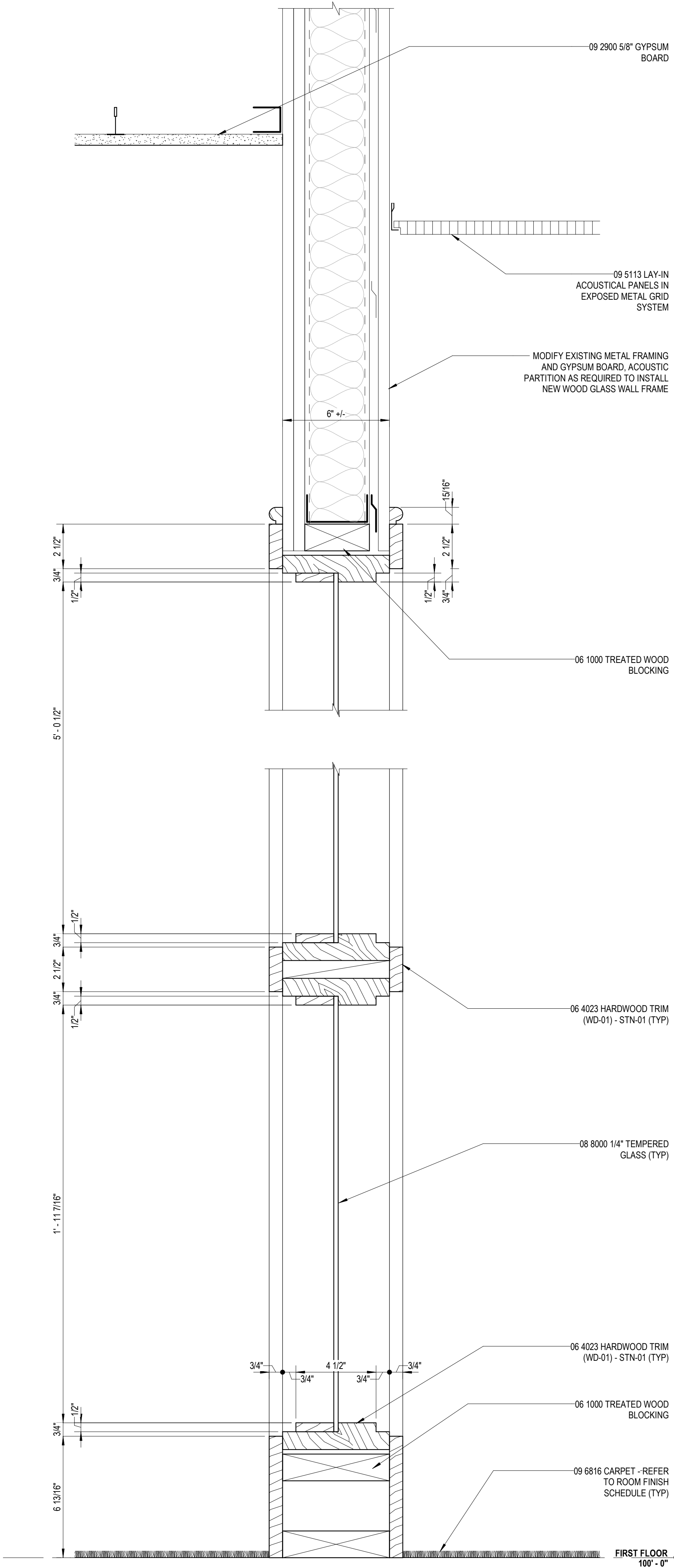
Key Plan

Project Administrator	Administrator
Project Designer	K. Litwin/T. Easthope
Project Architect / Engineer	K. Marshall
Drawn By	K. Marshall
Q.M. Review	N. LaForest
Approved	B. Sundberg
Drawing Scale	As Noted

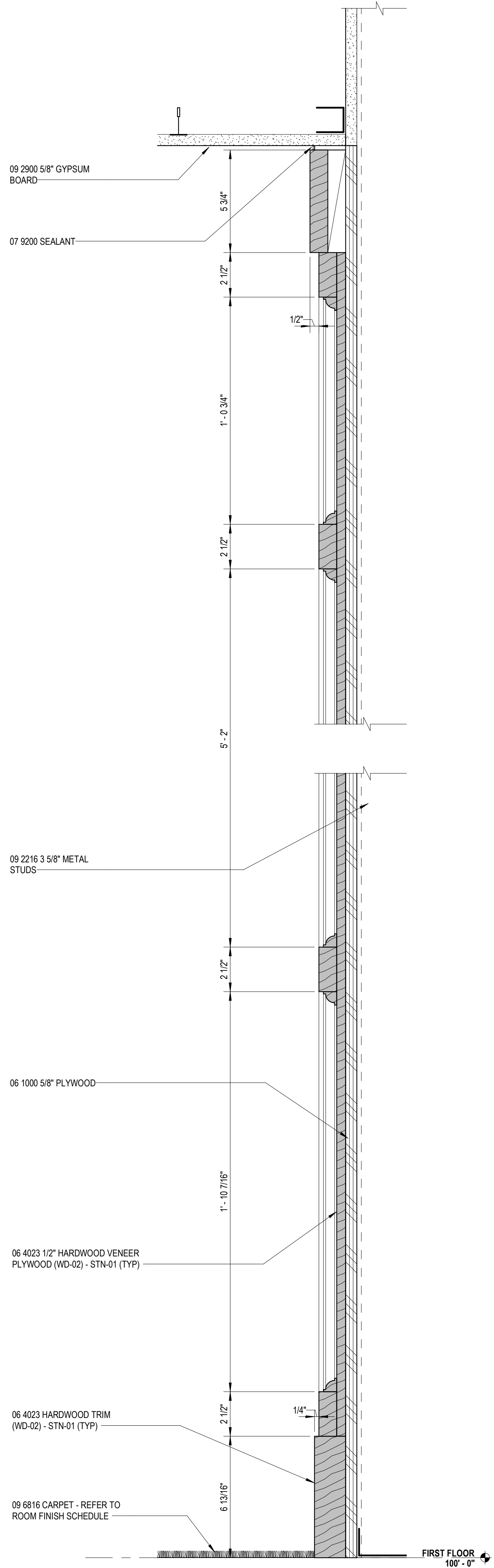
Issued for	Issue Date
Design Development	02-26-2021
Quality Management Review	04-21-2021
Bids	07-15-2021



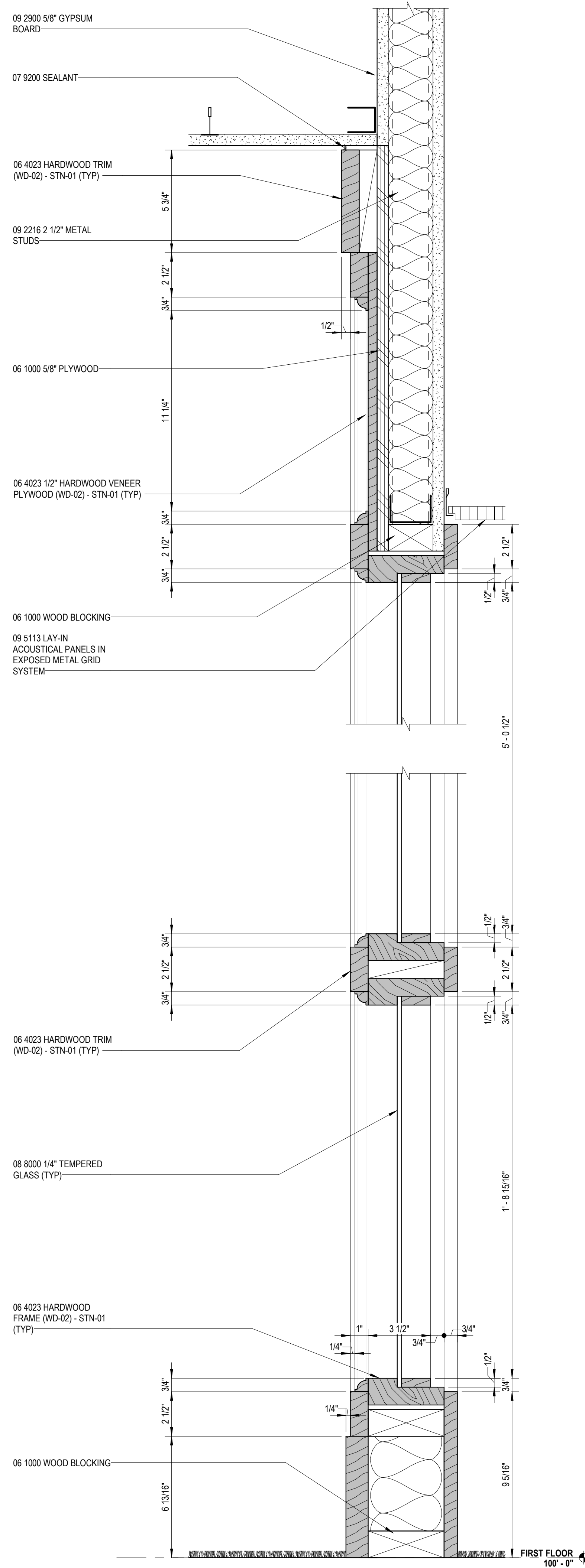
5 SHOWER BASE DETAIL
A6.1 3" = 1'-0"



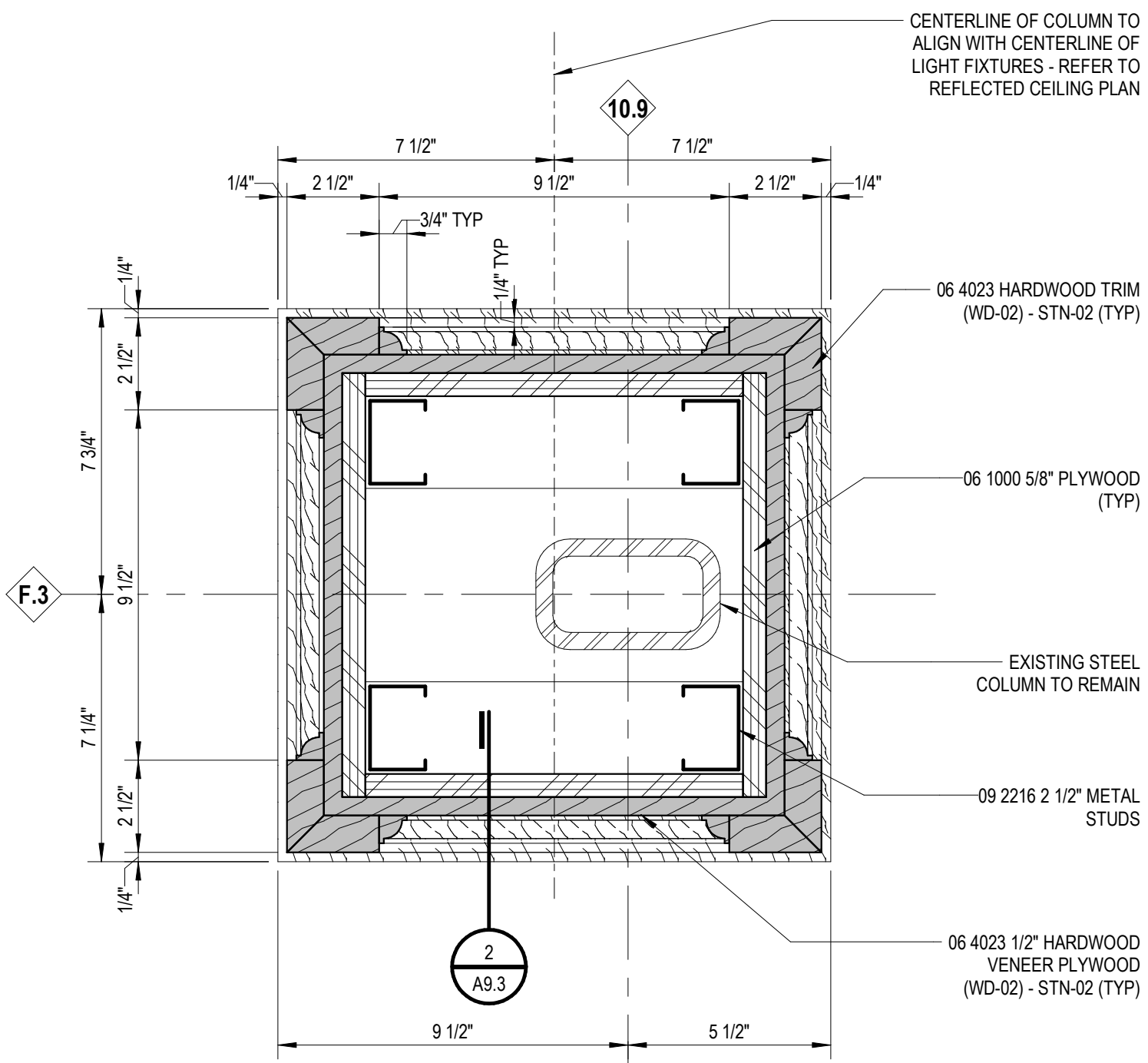
3 WING ENTRANCE INTERIOR WALL SECTION
A8.1 3" = 1'-0"



2 LOBBY/WAITING WAINSCOT WALL SECTION
A8.1 3" = 1'-0"



1 MEETING ROOM INTERIOR WALL SECTION
A8.1 3" = 1'-0"



4 ENLARGED COLUMN DETAIL
A2.1 3" = 1'-0"

Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48767

Key Plan

Project Administrator	
Administrator	
Project Designer	
K. Litwin/T. Easthope	
Project Architect / Engineer	
K. Marshall	
Drawn By	
K. Marshall	
Q.M. Review	
N. LaForest	
Approved	
B. Sundberg	
Drawing Scale	
As Noted	
Issued for	Issue Date
Design Development	02-26-2021
Quality Management Review	04-21-2021
Bids	07-15-2021

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan

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IDS Drawing Title

Key Plan



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IDS Project Number Drawing Number

A9.5

GENERAL NOTES

FINISH PLAN

A. REFER TO ROOM FINISH SCHEDULE AND COLOR CODES FOR MORE INFORMATION.

LEGEND

FINISH PLAN

NOTE: NOT ALL SYMBOLS MAY BE USED

ROOM NAME	ROOM #
CORRIDOR	1000
TOILET	1100
TOILET ROOM	1200
SHOWER/TOILET ROOM	1300
WORK ROOM	1400
MEETING ROOM	1500
KITCHENETTE	1600
BOARD ROOM	1700
FOYER/WAITING	1800
VESTIBULE	1900
CLOSET	2000

NOTE: FINISHES INDICATED IN ROOM FINISH TAGS ARE GENERAL OVERALL FINISHES FOR ROOM UNLESS OTHERWISE INDICATED BY NOTE, REMARK, DETAIL AND/OR ELEVATION.

ROOM SPECIFIC FINISH REMARKS REFER TO REMARKS LEGEND FOR ADDITIONAL INFORMATION

	FLOOR TILE FT-01
	FLOOR TILE FT-02
	FLOOR TILE FT-03
	FLOOR TILE FT-04
	CARPET TILE CPT-01
	CARPET TILE CPT-02
	CARPET TILE CPT-03
	SHEET CARPET (AREA RUG) CPT-04
	CARPET TILE CPT-05
	FLOOR MATERIAL TRANSITION TAG REFER TO A9.1 FOR TRANSITION/ SILL DETAILS
	FLOOR COLOR CODE TAG - REFER TO ROOM FINISH SCHEDULE SHEET A9.1
	FLOORING INSTALLATION DIRECTION
	ACCENT MATERIAL, REFER TO COLOR CODES
	09 6813 TILE CARPETING INSTALLATION METHOD - ASHLAR
	09 6813 TILE CARPETING INSTALLATION METHOD - MONOLITHIC
	09 6813 TILE CARPETING INSTALLATION METHOD - QUARTER TURN
	09 6813 TILE CARPETING INSTALLATION METHOD - NON-DIRECTIONAL

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Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48767

Key Plan

Project Administrator	Issue Date
Administrator	02-26-2021
Project Designer	04-21-2021
K. Litwin/T. Easthope	Bids 07-15-2021
Project Architect / Engineer	
K. Marshall	
Drawn By	
T. Easthope	
Q.M. Review	
N. LaForest	
Approved	
B. Sundberg	
Drawing Scale	
1/4" = 1'-0"	
Issued for	
Design Development	
Quality Management Review	
Bids	

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IDS Drawing Title

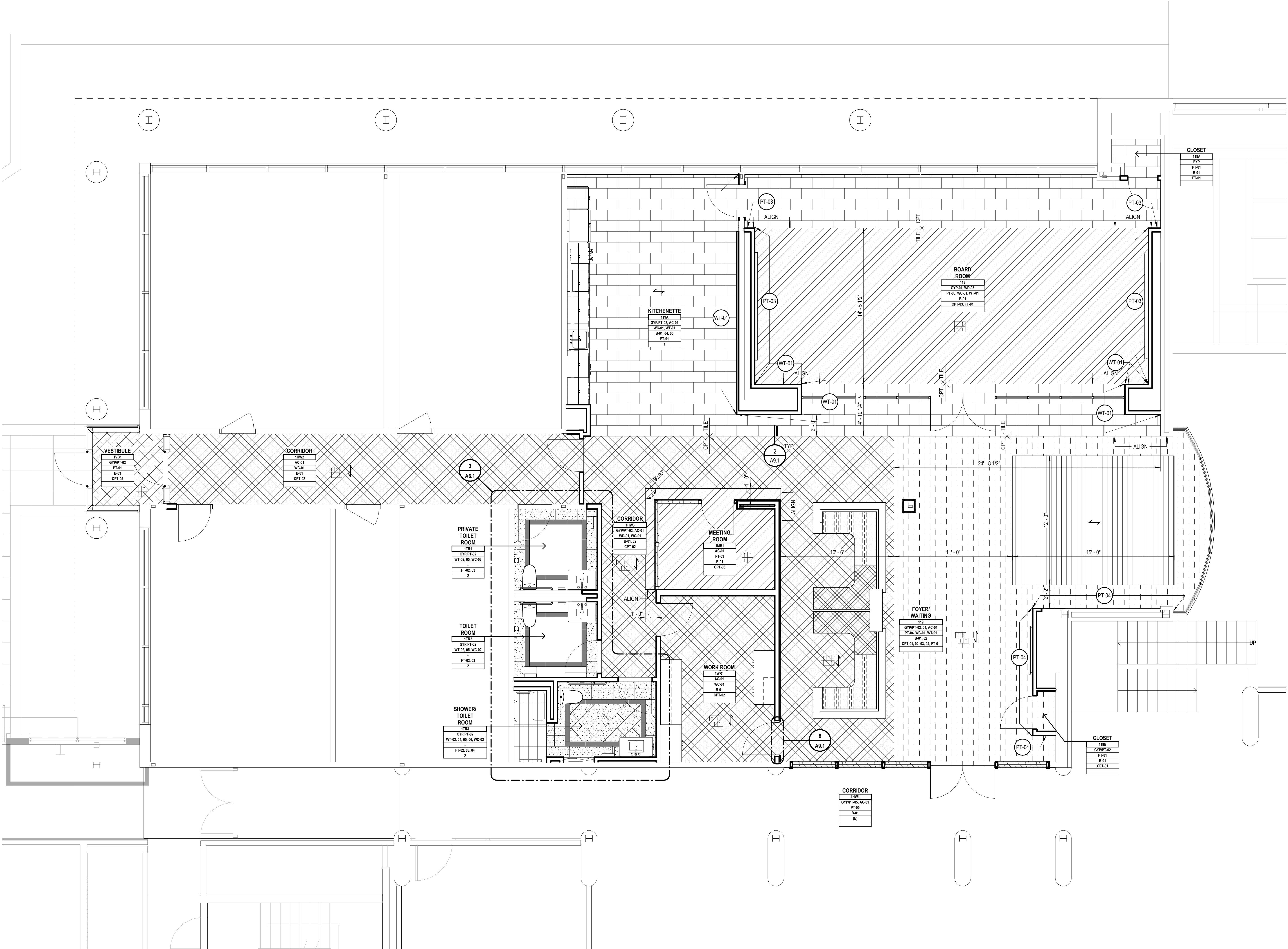
First Floor - Finish Plan

103 Project Number

Drawing Number

20120-2000

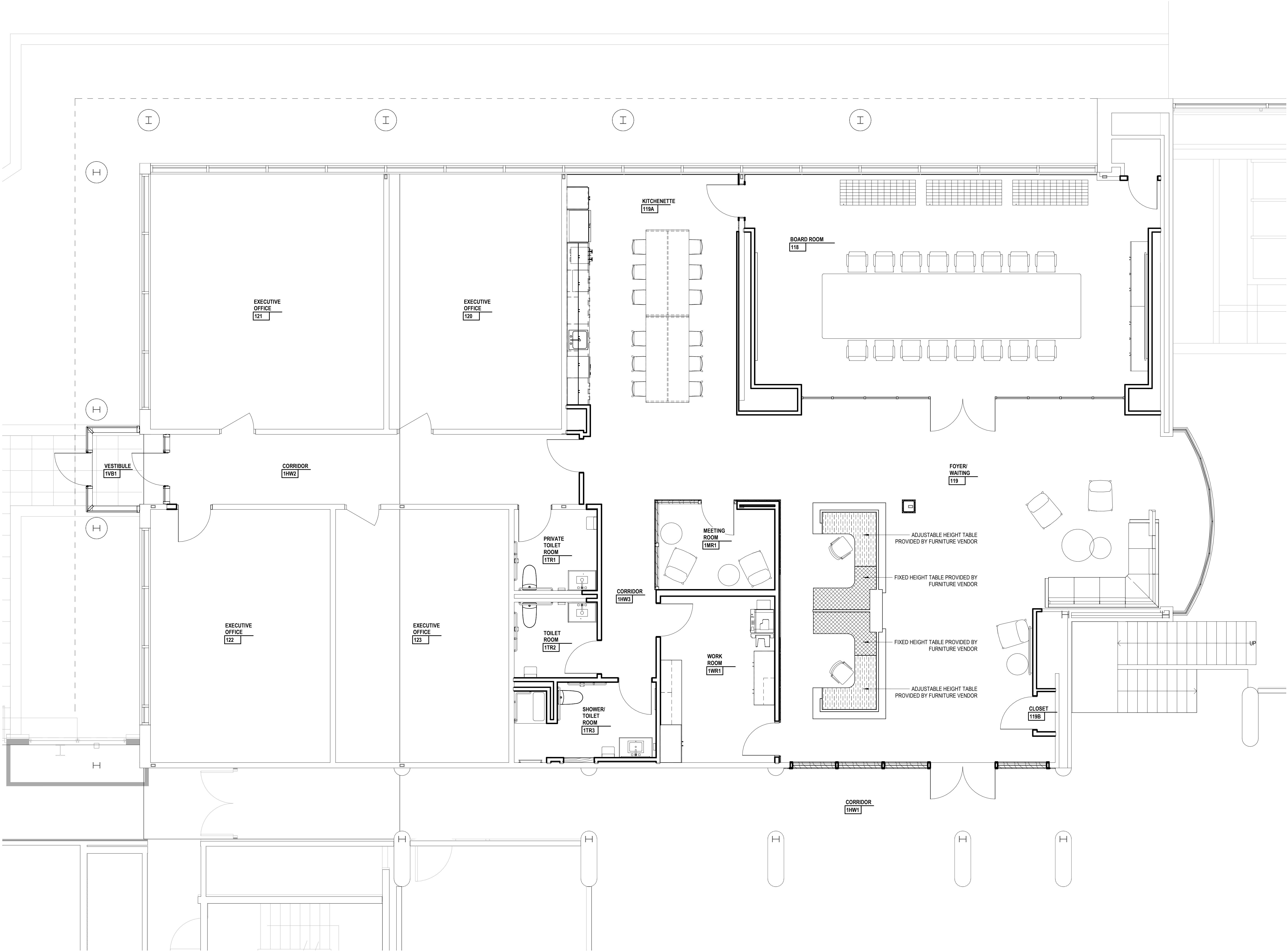
A10.1



GENERAL NOTES

FURNITURE FIXTURE AND EQUIPMENT PLAN

- A. ITEMS SHOWN IN GRayscale ARE FOR REFERENCE ONLY.
- B. COORDINATE THE INTERFACING OF ALL TRADES WITH RESPECT TO DELIVERY AND INSTALLATION OF ALL FURNITURE, FIXTURES AND EQUIPMENT.
- C. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BEFORE INSTALLATION. CONSULT ARCHITECT WHEN ACTUAL FIELD CONDITIONS VARY FROM THOSE SHOWN ON CONSTRUCTION DOCUMENTS.
- D. COORDINATE LOCATIONS OF ALL REQUIRED UTILITIES WITH THE TRADE PROVIDING THE SAME. REFER TO MECHANICAL AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION.



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First Floor Furniture Plan

For Reference Only

103 Project Number Drawing Number

20120-2000 F2.1

ABBREVIATIONS

A	AAV AIR ADMITTANCE VALVE	DB DRY BULB
AC AIR COMPRESSOR	DDC DIRECT DIGITAL CONTROL	FDAMP FIRE DAMPER
ACCU AIR COOLED CONDENSING UNIT	DEG DEGREES	FH FIRE HYDRANT
AD ACCESS DOOR	DN DOWN	FHC FIRE HOSE CABINET
AE AIR EXTRACTOR	DN DAY/NIGHT	FHV FIRE HOSE VALVE
AFF ABOVE FINISHED FLOOR	DPR DAMPER	FL FIRE LINE
AFT AIR FLOW TRANSMITTED	DRT DRIP & TRAP	FLA FULL LOAD AMPS
AHU AIR HANDLING UNIT	DTIC DRAIN TILE CONNECTION	FPM FLOW MEASUREMENT STATION
APD AIR PRESSURE DROP	DX DIRECT EXPANSION	FT FEET PER MINUTE
AL ACTIVE LENGTH		FTR FLOAT & THERMOSTATIC STEAM TRAP
APPROX APPROXIMATELY		FTH FINISHED TUBE RADIATION
ARCH ARCHITECTURAL		FVC FIRE VALVE CABINET
ASR AUTOMATIC SPRINKLER RISER		
B		
BAS BUILDING AUTOMATION SYSTEM		
BBD BOILER BLOWDOWN		
BF BARRIER FREE		
BFP BOILER FEEDWATER PUMP		
BHP BRAKE HORSEPOWER		
BP BACKFLOW PREVENTER		
BTU BRITISH THERMAL UNIT		
BWV BACKWATER VALVE		
C		
CAP CAPACITY		
CC COILING COIL		
CD COLD DECK		
CFM CUBIC FEET PER HOUR		
CFM CUBIC FEET PER MINUTE		
CI CAST IRON		
CLG CLEANOUT		
COND CONDENSATE (COOLING)		
CONN CONNECTION		
CONT CONTINUATION		
CONTR CONTRACTOR		
CONV CONVECTOR		
CPU CENTRAL PROCESSING UNIT		
CR CONDENSATE RETURN (STEAM)		
CT COOLING TOWER		
CJH CABINET UNIT HEATER		
CV CONTROL VALVE		
CW COLD WATER		
D		
DB DRY BULB		
DDC DIRECT DIGITAL CONTROL		
DEG DEGREES		
DN DOWN		
DN DAY/NIGHT		
DPR DAMPER		
DRT DRIP & TRAP		
DTIC DRAIN TILE CONNECTION		
DX DIRECT EXPANSION		
E		
EA EXHAUST AIR		
EAT ENTERING AIR TEMPERATURE		
EDB ENTERING DRY BULB		
EF EXHAUST FAN		
EG EXHAUST GRILLE		
EHG ELECTRIC HEATING COIL		
EIH ELECTRIC INFRARED HEATER		
EJ EXPANSION JOINT		
ELEV ELEVATION		
ELEC ELECTRICAL		
EMCS ENERGY MONITORING AND CONTROL SYSTEM		
ENT ENTERING		
ER EXHAUST REGISTER		
ERU ENERGY RECOVERY UNIT		
ES EMERGENCY SHOWER		
ESP EXTERNAL STATIC PRESSURE		
ET EXPANSION TANK		
EWB ENTERING WET BULB		
EWC ELECTRIC WATER COOLER		
EWT ENTERING WATER TEMPERATURE		
EXH EXHAUST		
(E) EXISTING		
EXP EXPANSION		
F		
F FA FARENHEIT		
F & BD FACE AND BYPASS DAMPER		
FCU FAN COIL UNIT		
FCO FLOOR CLEANOUT		
FD FLOOR DRAIN		
FDC FIRE DEPARTMENT CONNECTION		
G		
GA GAGE/GAUGE		
GALV GALVANIZED		
GPM GALLONS PER MINUTE		
GPH GALLONS PER HOUR		
GR GRILLE		
GV GATE VALVE		
H		
HUMD HUMIDIFIER		
HB HOSE BIBB		
HD HOT DECK		
HO NOT IN CONTRACT		
HOA HAND-OFF-AUTO		
HP HORSEPOWER		
HP STM HIGH PRESSURE STEAM		
HVAC HEATING AND VENTILATION UNIT		
HEATING, VENTILATION & AIR CONDITIONING		
I		
ID INSIDE DIAMETER		
IE INVERT ELEVATION		
IW INDIRECT WASTE		
J		
K		
L		
LAT LEAVING AIR TEMPERATURE		
LAV LAVATORY		
LBSHR POUNDS PER HOUR		
LP LINEAR DIFFUSER		
LP LIGHTING PANEL		
LRA LOOKED ROTOR AMPS		
LWT LEAVING WATER TEMPERATURE		
M		
MAT MIXED AIR TEMPERATURE		
MAV MANUAL AIR VENT		
MAX MAXIMUM		
MBH THOUSAND BRITISH THERMAL UNITS PER HOUR		
MCC MOTOR CONTROL CENTER		
MECH MECHANICAL		
MFR MANUFACTURER		
MGV MASTER GAS VALVE		
MH MAN HOLE		
MIN MINIMUM		
MS MOTOR STARTER		
MZ MULTI-ZONE UNIT		
N		
NC NORMALLY CLOSED		
NCR NOISE CRITERION		
NIC NOT IN CONTRACT		
NO NORMALLY OPEN		
No NUMBER		
NTS NOT TO SCALE		
O		
OA OUTSIDE AIR		
OAT OUTSIDE AIR TEMPERATURE		
OD OUTSIDE DIAMETER		
OD OPEN ENDED DUCT		
OSY OUTSIDE SCREW AND YOKE		
OV OUTLET VELOCITY		
P		
P PUMP		
PA PIPE ANCHOR		
PAC PACKAGED AIR CONDITIONING UNIT		
PCR PUMPED CONDENSATE RETURN		
PD PRESSURE DROP		
PG PIPE GUIDE		
PLBG PLUMBING		
PSI POUNDS PER SQUARE INCH		
PSH PRESSURE REDUCING VALVE		
PVC POLYVINYL CHLORIDE PLASTIC		
R		
RA RETURN AIR		
RAD RADIATOR		
RAG RETURN AIR GRILLE		
RCP RADIANT CEILING PANEL		
RH RELATIVE HUMIDITY		
RF RETURN FAN		
RM ROOM		
RPBP REDUCED PRESSURE BACKFLOW PREVENTER		
RR REVOLUTIONS PER MINUTE		
RS RETURN REGISTER		
RS ROOF SUMP		
RTU ROOF TOP UNIT		
S		
SA SUPPLY AIR		
SAG SUPPLY AIR GRILLE		
SAN SANITARY		
SAT SUPPLY AIR TEMPERATURE		
SC STEAM COIL		
SF SUPPLY FAN		
SH SHEET		
SHT SPRING HANGER		
SP SPECIFICATIONS		
SPHD SPRINKLER HEAD		
SPKR SPRINKLER		
SS SERVICE SINK		
SV SOLENOID VALVE		
SWS SAFE WASTE SINK		
T		
TC TEMPERATURE CONTROL		
TD TRENCH DRAIN		
TV TURNING VANES		
TW TEMPERED WATER		
TYP TYPICAL		
U		
UH UNIT HEATER		
UL UNDERWRITERS LABORATORY		
UR URINAL		
UV UNIT VENTILATOR		
V		
V VAV		
VD VOLUME DAMPER		
VI VIBRATION ISOLATOR		
VRF VARIABLE REFRIGERANT FLOW		
VS VENT STACK		
VTR VENT THROUGH ROOF		
W		
W WASTE		
WV WASTE AND VENT		
WB WET BULB		
WC WATER CLOSET		
WCO WALL CLEANOUT		
WG WATER GAUGE		
WH WALL HYDRANT (FREEZE PROTECTED)		
WS WASTE STACK		
X		
Y		
Z		

NOTATION METHODS

	SUPPLY DIFFUSER, TYPE 'A', 10" NECK, 350 CFM
	SUPPLY DIFFUSER (3-WAY)
	RETURN REGISTER, TYPE 'A', 350 CFM
	EXHAUST REGISTER, TYPE 'A', 350 CFM
	SIDEWALL SUPPLY REGISTER, TYPE 'A', 350 CFM
	SUPPLY AIR DIFFUSER, TYPE 'A' WITH FLEXIBLE DUCT CONNECTION (TWO WAY THROW)
	BELL MOUTH AIR INLET AREA SHALL BE EQUAL TO 2 TIMES DUCT AREA
	AIR HANDLING UNIT No. 1
	EXHAUST FAN No. 1
	SUPPLY AIR BRANCH CONNECTION SPIN-IN FITTING WITH VOLUME DAMPER
	RETURN AIR/EXHAUST AIR BRANCH CONNECTION WITH VOLUME DAMPER
	SOUNT TRAP (ATTENUATOR)
	FINNED TUBE RADIATION TYPE 'A', 5' 0" ELEMENT, 5.7 TOTAL MBH (REFER TO EQUIPMENT SCHEDULES)
	CABINET UNIT HEATER, TYPE 'A'
	CONVECTOR, TYPE 'A'
	TERMINAL VARIABLE OR CONSTANT VOLUME BOX AHU OR RTU SERVING THE VAV OR CAV, ROOM NUMBER, A.B.C. ETC. IF MULTIPLE COILS SERVE THE SAME SPACE (HEATING COIL, REFER TO EQUIPMENT SCHEDULES)
	TERMINAL VARIABLE OR CONSTANT VOLUME BOX AHU OR RTU SERVING THE VAV OR CAV, ROOM NUMBER, A.B.C. ETC. IF MULTIPLE COILS SERVE THE SAME SPACE (NO HEATING COIL, REFER TO EQUIPMENT SCHEDULES)
	DUAL DUCT CONSTANT VOLUME MIXING BOX (REFER TO EQUIPMENT SCHEDULES)
	REHEAT COIL, ROOM NUMBER (REFER TO EQUIPMENT SCHEDULES)
	POINT WHERE CHANGE IN DUCT SIZE OR PIPE PITCH TAKES PLACE
	POINT WHERE DEMOLITION ENDS/POINT OF NEW CONSTRUCTION
	NEW MECHANICAL
	EXISTING MECHANICAL

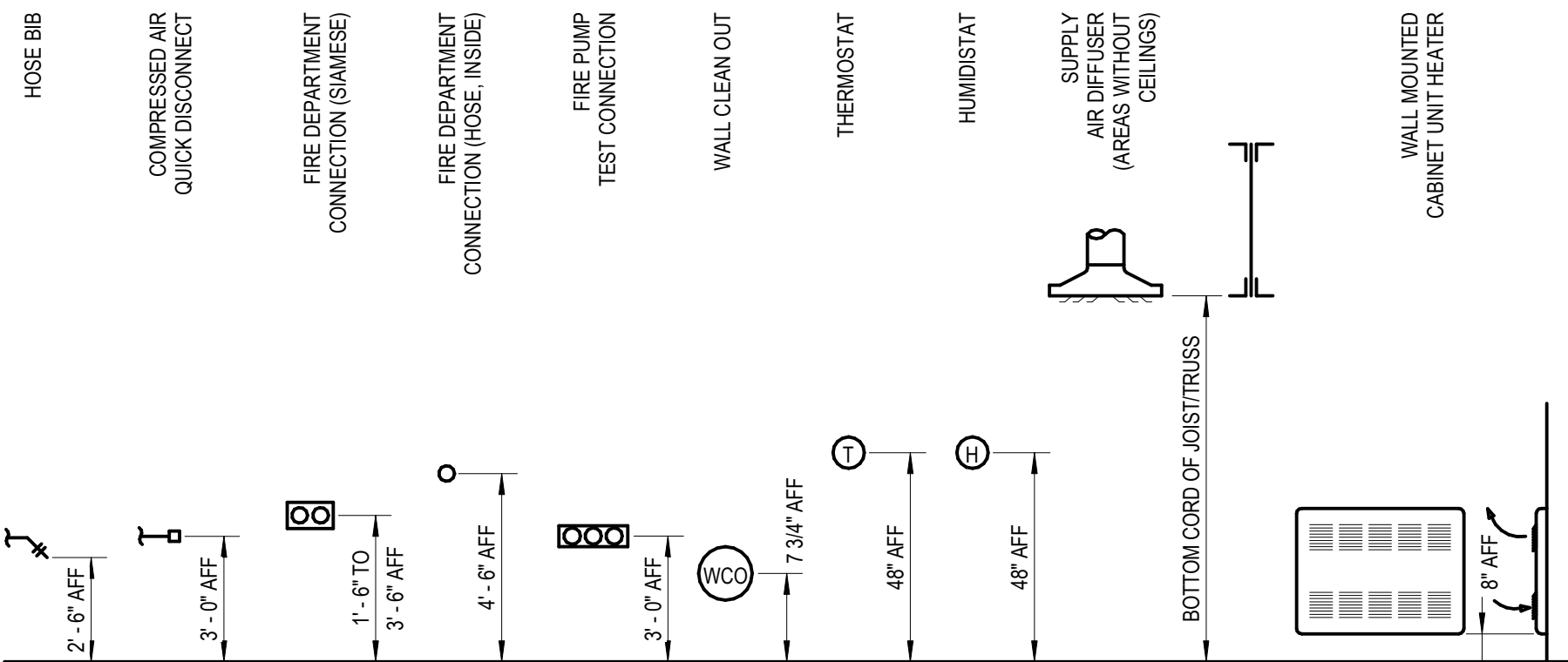
SYMBOLS

	FIRE DAMPER		EXPANSION COMPENSATOR/EXPANSION JOINT		REVERSE OSMOSIS WATER
	SMOKE DAMPER		SPRING HANGER		DEIONIZED WATER SUPPLY
	SMOKE DAMPER AND FIRE DAMPER		FLOOR CLEANOUT		TEMPERED WATER
	VOLUME DAMPER WITH REMOTE OPERATOR		WALL CLEANOUT		NATURAL GAS PIPING
	FLEXIBLE DUCT		MANHOLE		NATURAL GAS PIPING (EMERGENCY POWER SUPPLY)
	CUH OR CONVECTOR (SURFACE)		FLOOR DRAIN		NITROUS OXIDE PIPING
	FINNED TUBE RADIATION		CATCH BASIN		OXYGEN PIPING
	TERMINAL VOLUME BOX (W/O HEATING COIL)		PENDANT SP HD (FLUSH MOUNTED TYPE)		COMPRESSED AIR
	TERMINAL VOLUME BOX (W/ HEATING COIL)		SIAMESE CONNECTION		COMPRESSED AIR PIPING PRESSURE INDICATED
	FLEXIBLE PIPE CONNECTION		PRESSURE INDICATOR		CARBON DIOXIDE GAS
	INDICATES FLAT OVAL DUCT SIZE		TEMPERATURE INDICATOR		FUEL OIL RETURN
	INDICATES RECTANGULAR DUCT SIZE		THERMOMETER		FUEL OIL SUPPLY
	INDICATES ROUND DUCT SIZE		MANUAL AIR VENT		SANITARY SEWER
	ANGLE RELIEF VALVE		FLOW MEASURING DEVICE		PUMPED SANITARY SEWER
	ANGLED STOP CHECK VALVE		FLOW ELEMENT (GRIFICE PLATE)		VENT PIPING
	BALANCE VALVE		POINT OF NEW CONNECTION		ACID VENT PIPING
	BUTTERFLY VALVE (SEE SPECIFICATION FOR TYPE)		TO BE DEMOLISHED AND REMOVED		VACUUM PIPING
	BALL GAS, GATE, GLOBE, PLUG VALVE (SEE SPECIFICATION FOR TYPE)		PLUMBING RISER TAG		ACID WASTE
	CHECK VALVE W/ ARROW INDICATING FLOW		MASTER GAS SHUT-OFF VALVE		STORM SEWER
	CONTROL VALVE		PRESSURE REDUCING STATION		OVERFLOW STORM
	LINEAR STOP CHECK VALVE		REDUCED PRESSURE BACKFLOW PREVENTER		PUMPED STORM WATER
	MIXING VALVE		FIRE PROTECTION PIPING		DRAIN TILE
	PRESSURE REDUCING VALVE		DOMESTIC COLD WATER PIPING		CHILLED WATER SUPPLY PIPING
	PRESSURE RELIEF VALVE		HIGH PRESSURE COLD WATER		CHILLED WATER RETURN PIPING
	STRAINER		DOMESTIC HOT WATER PIPING		CONDENSER WATER SUPPLY PIPING
	UNION		DOMESTIC HOT WATER RETURN PIPING		CONDENSER WATER RETURN PIPING
	PIPE ANCHOR		NON-POTABLE WATER PIPING		PUMPED CONDENSATE RETURN PIPING
	PIPE GUIDE		DISTILLED WATER		CONDENSATE RETURN PIPING (GRAVITY)

SYMBOL LEGEND

DETAIL SYMBOL	ELEVATION SYMBOL
PLAN OR DETAIL ENLARGEMENT	COLUMN CENTERLINE
SECTION LOCATOR	ROOM NAME AND NUMBER

MOUNTING HEIGHTS



GENERAL NOTES

1. VERIFY ALL CONDITIONS IN FIELD BEFORE START OF CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS.
2. COORDINATE ALL WORK WITH APPROPRIATE TRADES.
3. COORDINATE ANY REQUIRED SHUTDOWN OF SERVICES OR EQUIPMENT WITH OWNER'S REPRESENTATIVE.
4. PROVIDE ALL MISC. STEEL AND ITEMS REQUIRED FOR THE PROPER INSTALLATION OF ALL PIPE, SHEET METAL AND EQUIPMENT.
5. COORDINATE FLOOR, WALL & ROOF PENETRATIONS ETC. WITH ARCHITECTURAL TRADES.
6. INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE IN AREA WITHOUT A CEILING UNLESS INDICATED OTHERWISE.
7. DUCT CONNECTED TO EQUIPMENT SHALL EQUAL EQUIPMENT CONNECTION SIZE UNLESS NOTED OTHERWISE.
8. MAXIMUM LENGTH ON FLEXIBLE DUCT SHALL BE 5'-0".
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT DIFFUSER LOCATIONS IN AREAS WITH A CEILING.
10. ALL HOT WATER FIN TUBE RADIATION COVERS SHALL RUN WALL TO WALL (OR COLUMN).
11. DO NOT RUN ANY PIPING OR DUCTWORK INTO AN ELECTRICAL ROOM THAT DOES NOT SERVE THAT ROOM.

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Executive Suite Renovation

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Frankenmuth, MI 48787

Key Plan

MECHANICAL DRAWING INDEX

MR.0	Mechanical Reference Information
M1.01	Basement Demolition Plan
M1.1	First Floor Demolition Plan
M2.1	First Floor Sheet Metal Plan
M3.01	Basement Plumbing & HVAC Piping Plan
M3.01	First Floor Plumbing, HVAC Piping & Fire Protection Plan
M3.1	Details & Schedules
M5.1	Mechanical Systems Controls

THIS PROJECT MAY NOT UTILIZE ALL THE SYMBOLS, MATERIALS, ABBREVIATIONS AND STANDARD INFORMATION SHOWN ON THIS SHEET.

Project Administrator

C. Azar

Project Designer

P. Carmella

Project Architect / Engineer

B. Partak

Drawn By

P. Carmella

Q.M. Review

M. Perez

Approved

J. Schwartz

Drawing Scale

No Scale

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IDS Drawing Title

Mechanical Reference Information

103 Project Number

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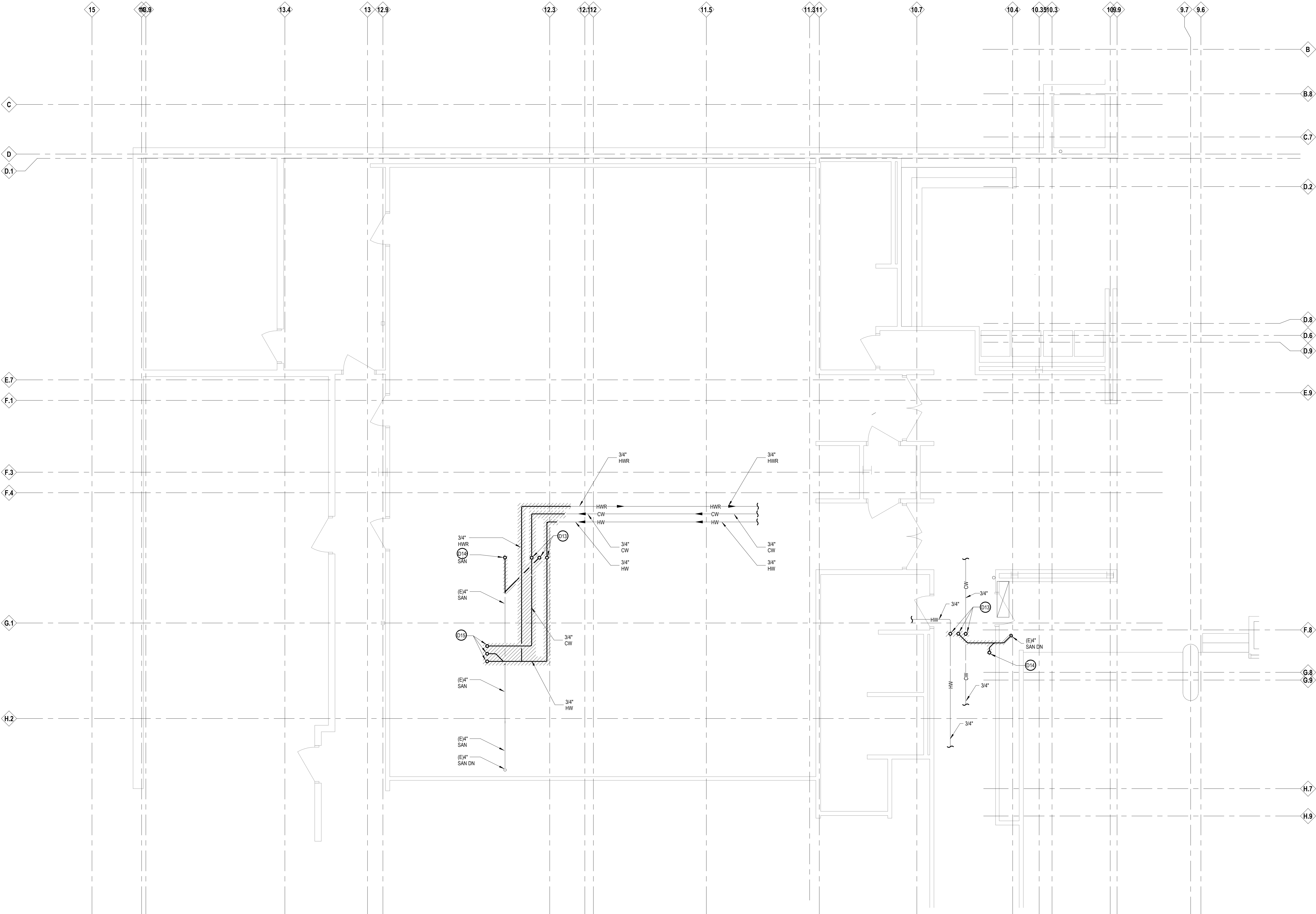
MR.0

KEYNOTES

DEMOLITION
NOTE: NOT ALL KEYNOTES MAY BE USED

- LEGEND SYMBOL INDICATOR
- D1 REMOVE VAV BOX, INCLUDING ALL CONTROLS, HWHS & R PIPING BACK TO MAINS AND CAP
- D2 REMOVE EXISTING DUCTWORK, INCLUDING DIFFUSERS AS INDICATED.
- D3 REMOVE VAV BOX, INCLUDING ALL CONTROLS, HWHS & R PIPING AND DUCTWORK AS REQUIRED TO REPLACE VAV BOX, PROVIDE NEW CONTROLS AND VALVING.
- D4 REMOVE EXISTING VALVING ABOVE CEILING SERVING EXISTING FIN-TUBE RADIATION AS INDICATED.
- D5 REMOVE EXISTING LINEAR SUPPLY AIR DIFFUSER AND ASSOCIATED DUCTWORK BACK TO MAIN AND CAP AS REQUIRED BY CORRIDOR CEILING REPLACEMENT.
- D6 REMOVE EXISTING IN-LINE EXHAUST FANS EF # 7, 8 & 9 AS REQUIRED FOR RE-INSTALLATION, REFER TO NEW WORK ON DRAWING M2.1.
- D7 REMOVE EXISTING IN-LINE EXHAUST FANS EF #20 & 21 COMPLETELY, INCLUDING ALL CONTROLS, INLET AND OUTLET DUCTWORK AND EXHAUST GRILLES.
- D8 REMOVE EXISTING FLOOR MOUNTED WATER CLOSET COMPLETELY, INCLUDING ALL SANITARY, AND CW FROM BASEMENT AS INDICATED.

- D9 REMOVE EXISTING LAVATORY COMPLETELY, INCLUDING ALL H & CW AND SANITARY PIPING FROM BASEMENT AND VENT PIPING UP TO ABOVE CEILING AS INDICATED.
- D10 REMOVE EXISTING KITCHEN SINK COMPLETELY, INCLUDING DISHWASHER ADJACENT, INCLUDING SANITARY, H & CW FROM BASEMENT BELOW ABD VENT PIPING UP TO ABOVE CEILING ABOVE AS INDICATED.
- D11 REMOVE PORTION OF EXISTING 4" HWHS & R LINES WITH SHUT OFF VALVES, REFER TO NEW WORK.
- D12 REMOVE FIRE PROTECTION SPRINKLER HEADS IN AREAS OF CEILING DEMOLITION, REFER TO ARCH. DRAWINGS.
- D13 REMOVE EXISTING 3/4" H & CW, 2" SANITARY PIPING UP TO LAVATORY ABOVE CAP PIPING AS INDICATED.
- D14 REMOVE EXISTING 4" SANITARY PIPING UP TO WATER CLOSET ABOVE, CAP 4" SANITARY PIPING AS INDICATED.
- D15 REMOVE EXISTING 3/4" H & CW, 2" SANITARY PIPING UP TO KITCHEN SINK ABOVE, CAP PIPING AS INDICATED.



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Project Architect / Engineer

B. Pantak

Drawn By

P. Carmella

Q.M. Review

M. Perez

Approved

J. Schwartz

Drawing Scale

As Noted

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Basement Demolition Plan

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M1.01

KEYNOTES

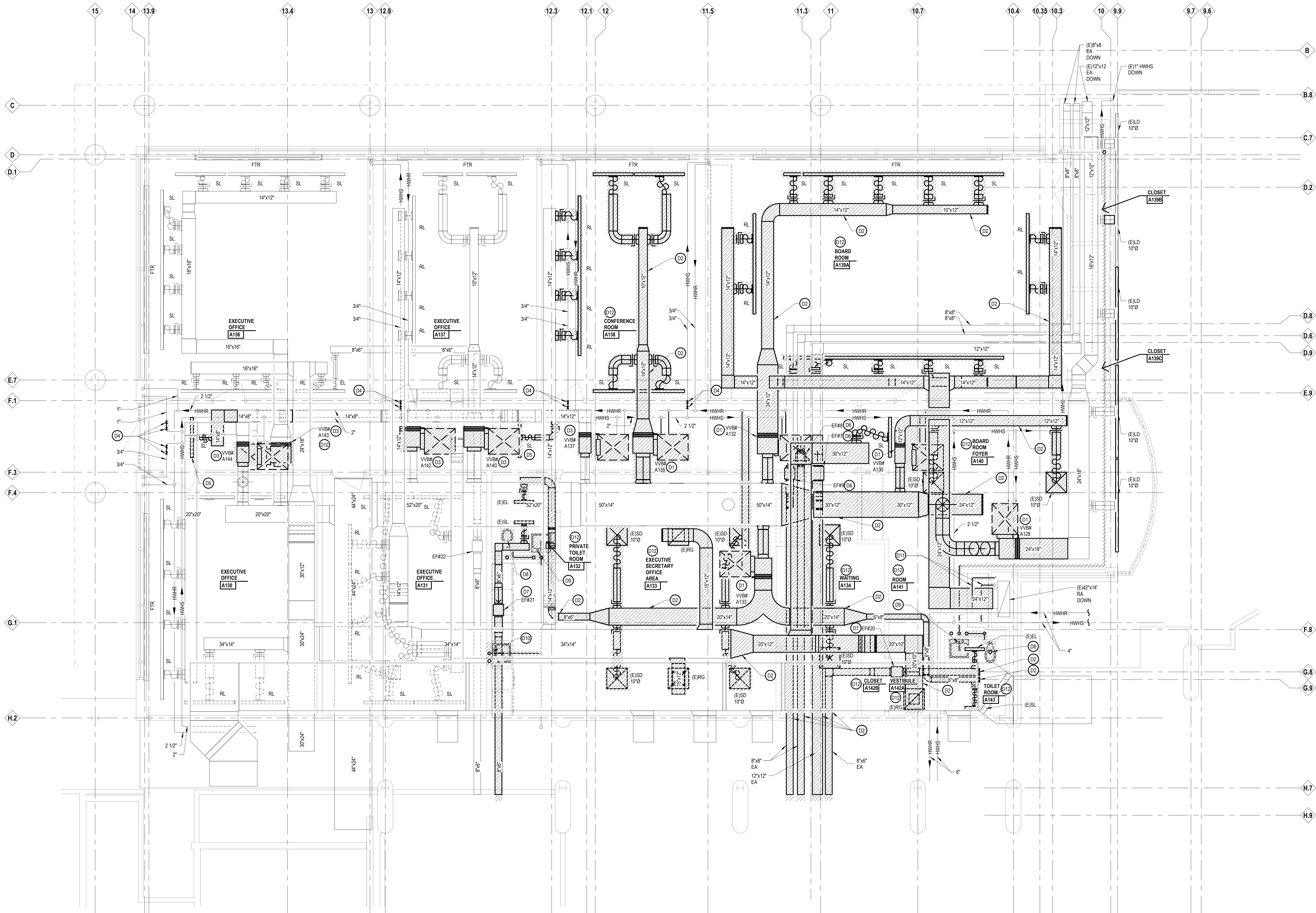
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- D4 REMOVE EXISTING VALVING ABOVE CEILING SERVING EXISTING FIN-TUBE RADIATION AS INDICATED.
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- D11 REMOVE PORTION OF EXISTING 4" HWHS & R LINES WITH SHUT OFF VALVES, REFER TO NEW WORK.
- D12 REMOVE FIRE PROTECTION SPRINKLER HEADS IN AREAS OF CEILING DEMOLITION, REFER TO ARCH. DRAWINGS.
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First Floor Demolition Plan

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M1.1

KEYNOTES

SHEET METAL
NOTE: NOT ALL KEYNOTES MAY BE USED

LEGEND SYMBOL INDICATOR

- S1 NEW VAV BOX IN SAME LOCATION AS PREVIOUSLY REMOVED, PROVIDE DUCT TRANSITIONS AS REQUIRED TO RECONNECT TO EXISTING DUCTWORK.
- S2 NEW VAV BOX IN NEW LOCATION, PROVIDE NEW INLET/OUTLET DUCTWORK AS INDICATED.
- S3 NEW CUH-A RECESSED ABOVE CEILING PROVIDE 30"x4" S.A. & R.A. DISCHARGE/INLET AIR PLENUM CONNECTIONS.
- S4 10" DIA. S.A. DUCT FROM 30"x4" S.A. PLENUM TO LD-B.
- S5 10" DIA. R.A. DUCT FROM 30"x4" R.A. PLENUM PENETRATE VESTIBULE CEILING BALANCE OPEN ENDED 10" DIA. R.A. DUCT TO 24S CFM.
- S6 6" DIA. R.A. DUCT FROM 30"x4" R.A. PLENUM IN CORRIDOR CEILING BALANCE OPEN ENDED 6" DIA. R.A. DUCT TO 100 CFM.
- S11 CONNECT NEW (2) 8"x8" AND (1) 12"x12" TO EXISTING (2) 8"x8" AND (1) 12"x12" EXISTING EXHAUST AIR DUCTS, OFFSET NEW DUCTWORK UP AND OVER NEW CEILING COVE BY ARCHITECTURAL TRADES, REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
- S12 RE-INSTALL RELOCATED IN-LINE EXHAUST FAN EF-9, 8 AND 7 AS INDICATED IN NEW EXHAUST AIR DUCTWORK, EXTEND EXISTING CONTROLS AS REQUIRED.
- S13 RECONNECT (2) 8"x8" AND (1) 12"x12" NEW EXHAUST AIR DUCTS TO EXISTING SIDEWALL EXHAUST GRILLE AT LOW ROOF SIDEWALL EXHAUST.
- S14 CONNECT NEW 8"x14" EXHAUST AIR DISCHARGE DUCT FROM NEW EF-1 TO EXISTING SIDEWALL EXHAUST GRILLE AT LOW ROOF SIDEWALL EXHAUST.



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IDS Drawing Title

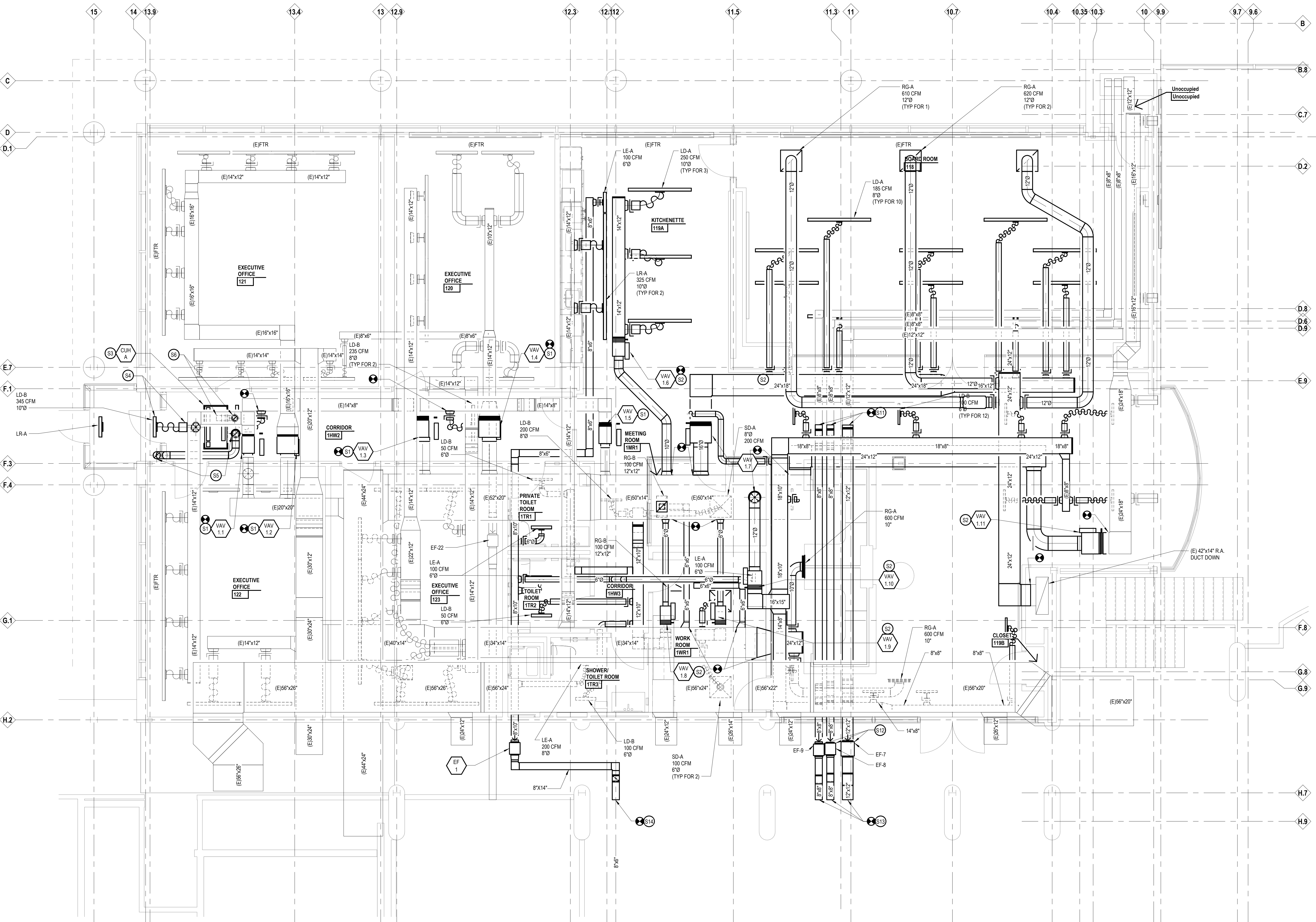
First Floor Sheet Metal Plan

103 Project Number

Drawing Number

20120-1000

M2.1



KEYNOTES

PLUMBING & HVAC PIPING

NOTE: NOT ALL KEYNOTES MAY BE USED

LEGEND SYMBOL INDICATOR

- P1 NEW 3/4" H & CW, 2" SANITARY PIPING UP TO LAV-1 ABOVE.
- P2 NEW 3/4" CW, 4" SANITARY PIPING UP TO WC-1 ABOVE.
- P3 NEW 3/4" H & CW, 2" SANITARY PIPING UP TO SH-1 ABOVE.
- P4 NEW 3/4" H & CW, 2" SANITARY PIPING UP TO KS-1 ABOVE.
- P5 NEW 1/2" CW UP TO COFFEE MAKER ABOVE.
- P6 NEW 1/2" CW FROM BELOW CONNECT TO NEW COFFEE MAKER, EXTEND 1/2" CW TO ADJACENT REFRIGERATOR WITH ICE MAKER.
- P7 NEW 3/4" H & CW, 2" SANITARY FROM BELOW WITH 2" VENT UP IN WALL TO ABOVE CEILING FROM KS-1, EXTEND 3/4" HW AND DRAIN FROM ADJACENT DISHWASHER.
- P8 NEW 3/4" H & CW, 2" SANITARY FROM BELOW WITH A 2" VENT UP IN WALL TO ABOVE CEILING FROM LAV-1.
- P9 NEW 3/4" CW, 4" SANITARY FROM BELOW TO WC-1..
- P10 NEW 3/4" H & CW, 2" SANITARY FROM BELOW TO SH-1.
- P11 PROVIDE NEW 4" HWHS & R PIPING IN STAIRS WITH SHUT OFF VALVES RECONNECT TO EXISTING 4" HWHS & R PIPING DOWN TO BASEMENT.
- P12 NEW 3/4" HWHS & R PIPING CONNECT TO NEW CUH-A, CONNECT TO EXISTING HWHS & R PIPING.
- P13 PROVIDE NEW SHUT OFF AND CONTROL VALVE IN EXISTING HWHS PIPING SERVING EXISTING FTR SIZED AS INDICATED.
- P14 NEW VAV BOX IN SAME LOCATION AS PREVIOUSLY REMOVED, RECONNECT EXISTING HWHS & R PIPING TO NEW VAV BOX, PROVIDE NEW VALVING AS INDICATED ON DETAIL ON DRAWING M6.1.
- P15 NEW VAV BOX IN NEW LOCATION PROVIDE NEW 3/4" HWHS & R PIPING AND VALVING AS INDICATED ON DETAIL ON DRAWING M6.1.
- P16 CONNECT NEW 3/4" HWHS & R PIPING TO EXISTING HWHS & R PIPING.

iDS

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Project Title



Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan



Project Administrator

C. Azar

Project Designer

P. Carmella

Project Architect / Engineer

B. Pantak

Drawn By

P. Carmella

Q.M. Review

M. Perez

Approved

J. Schwartz

Drawing Scale

As Noted

Issued for Issue Date

Quality Management Review 04-21-2021

Bids 07-15-2021

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IDS Drawing Title

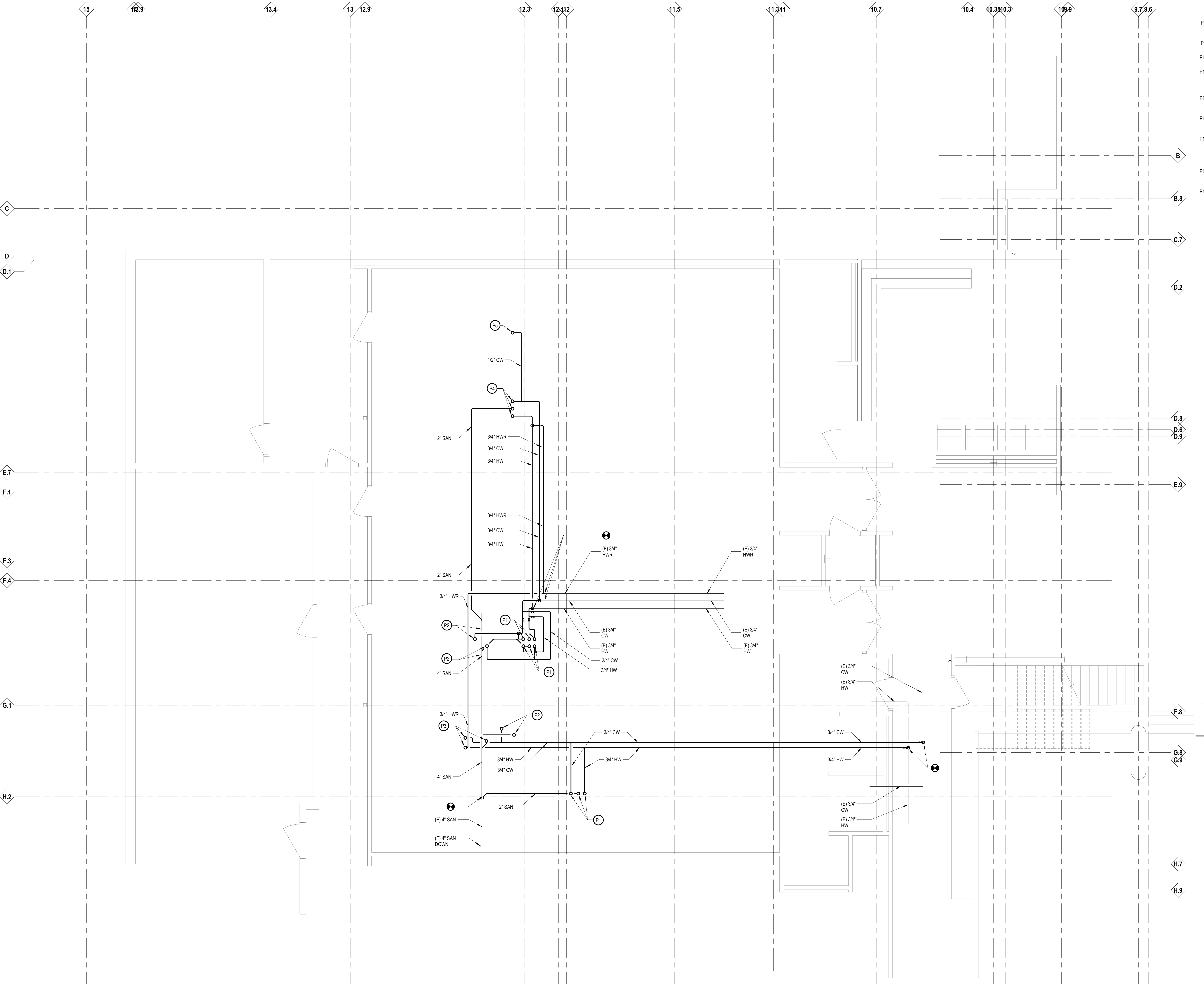
Basement Plumbing & HVAC Piping Plan

103 Project Number

Drawing Number

20120-1000

M3.01



GENERAL NOTES

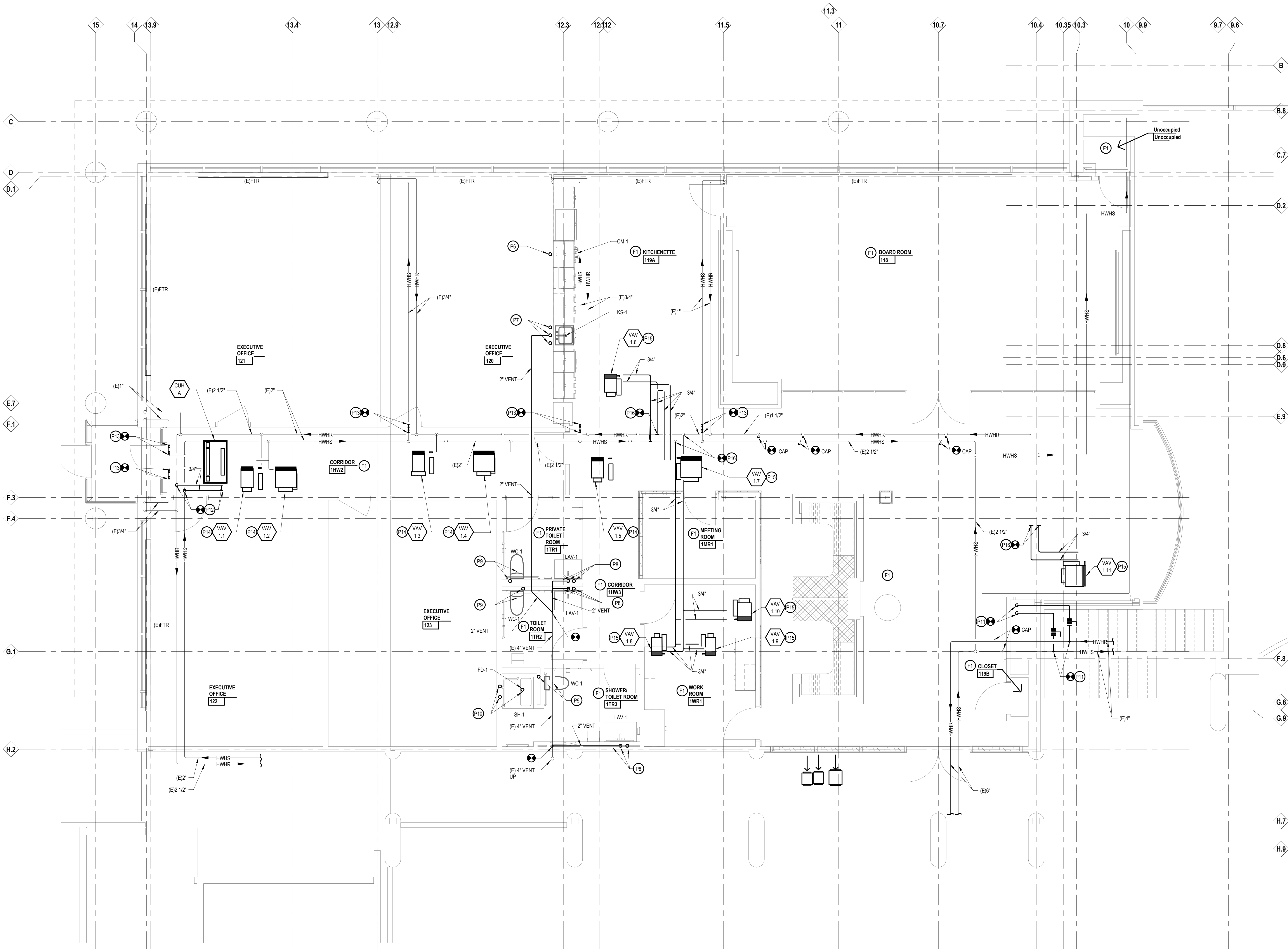
- FIRE PROTECTION**
1. ALL MATERIAL AND WORKMANSHIP SHALL CONFIRM TO ALL LOCAL REGULATIONS
 2. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS RECOMMENDATIONS AND APPROPRIATE CODES. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, MISS, STEEL AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
 3. MARKABLE LABELS SHALL BE AFFIXED TO ALL FIRE PROTECTION EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO THE OWNER.
 4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 5. COORDINATE ANY REQUIRED SHUTDOWN OF SERVICES OR EQUIPMENT WITH THE OWNER'S REPRESENTATIVE.

KEYNOTES

- FIRE PROTECTION**
NOTE: NOT ALL KEYNOTES MAY BE USED
- LEGEND SYMBOL INDICATOR
- F1 PROVIDE WET SPRINKLER FIRE PROTECTION COVERAGE TO ALL ROOMS WITH NEW CEILING. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS. SEE ADDITIONAL FIRE PROTECTION NOTES ON THIS DRAWING.

KEYNOTES

- PLUMBING & HVAC PIPING**
NOTE: NOT ALL KEYNOTES MAY BE USED
- LEGEND SYMBOL INDICATOR
- P1 NEW 3/4" H & CW, 2" SANITARY PIPING UP TO LAV-1 ABOVE.
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- P8 NEW 3/4" H & CW, 2" SANITARY FROM BELOW WITH A 2" VENT UP IN WALL TO ABOVE CEILING FROM LAV-1.
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Executive Suite Renovation

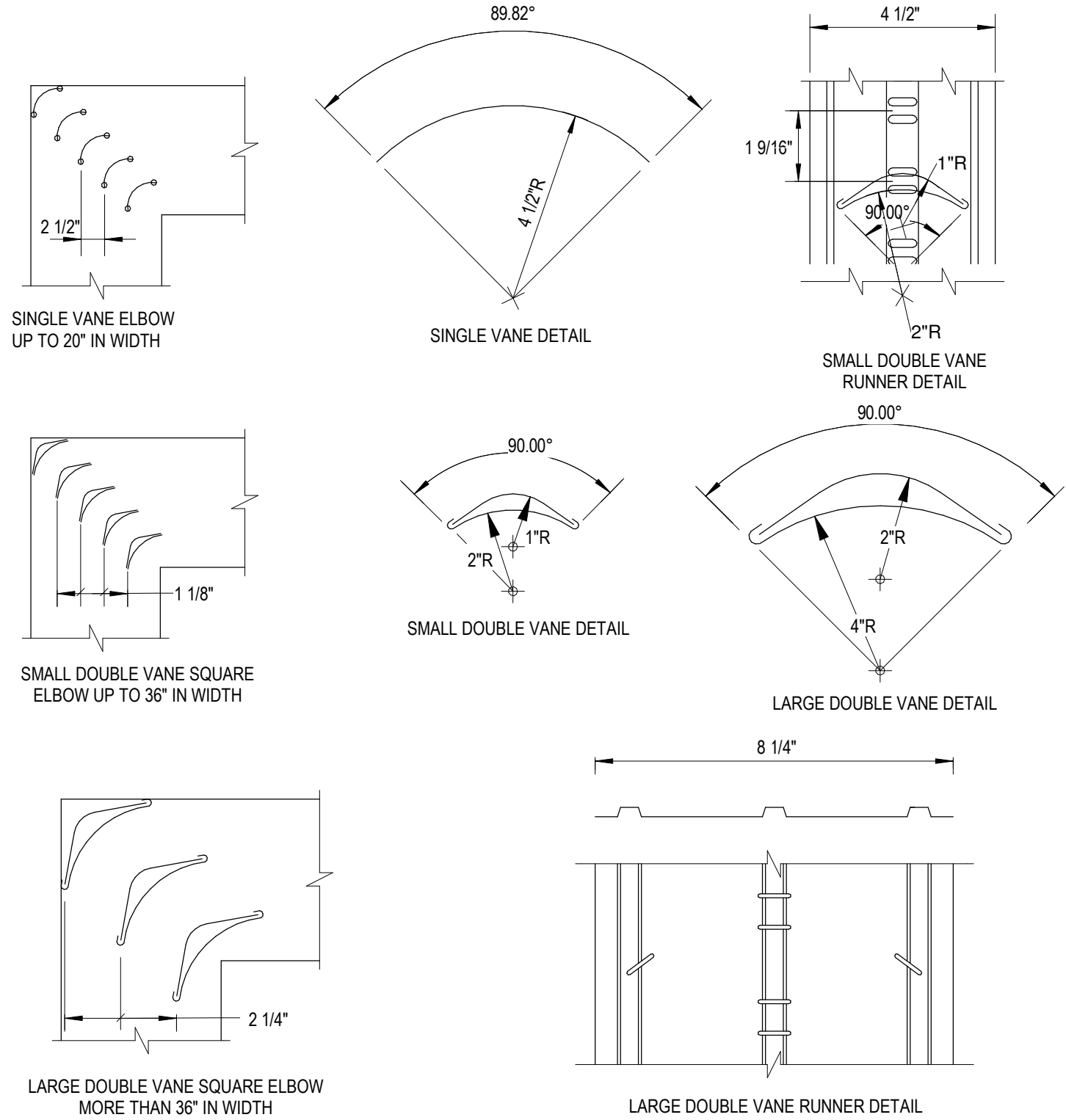
1 Mutual Avenue
Frankenmuth, MI 48787



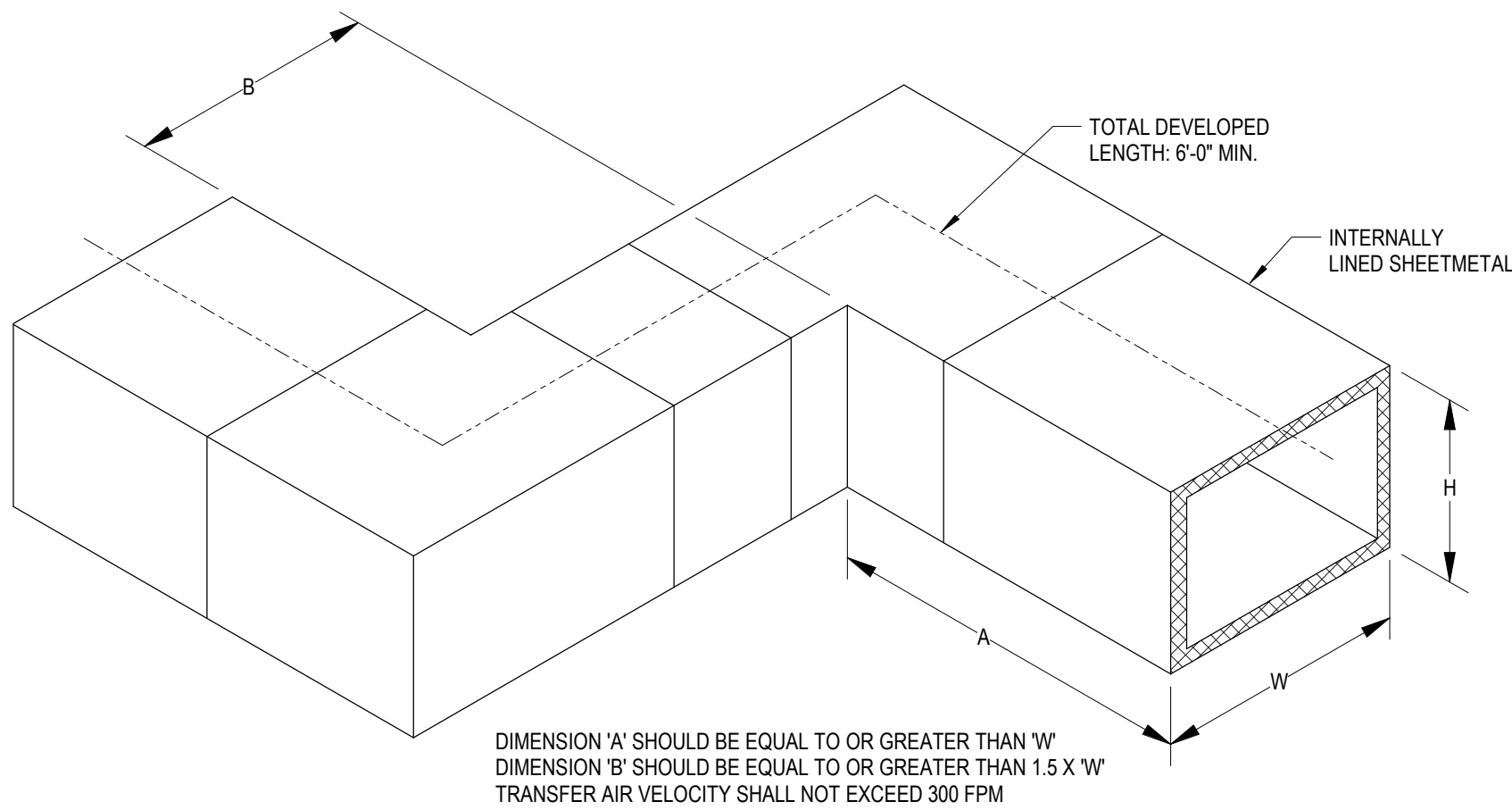
Project Administrator	
C. Azar	
Project Designer	
P. Carmella	
Project Architect / Engineer	
B. Pantak	
Drawn By	
P. Carmella	
Q.M. Review	
M. Perez	
Approved	
J. Schwartz	
Drawing Scale	
1/4" = 1'-0"	
Issued for	Issue Date
Design Development	02-19-2021
Quality Management Review	04-21-2021
Bids	07-15-2021

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IDS Drawing Title

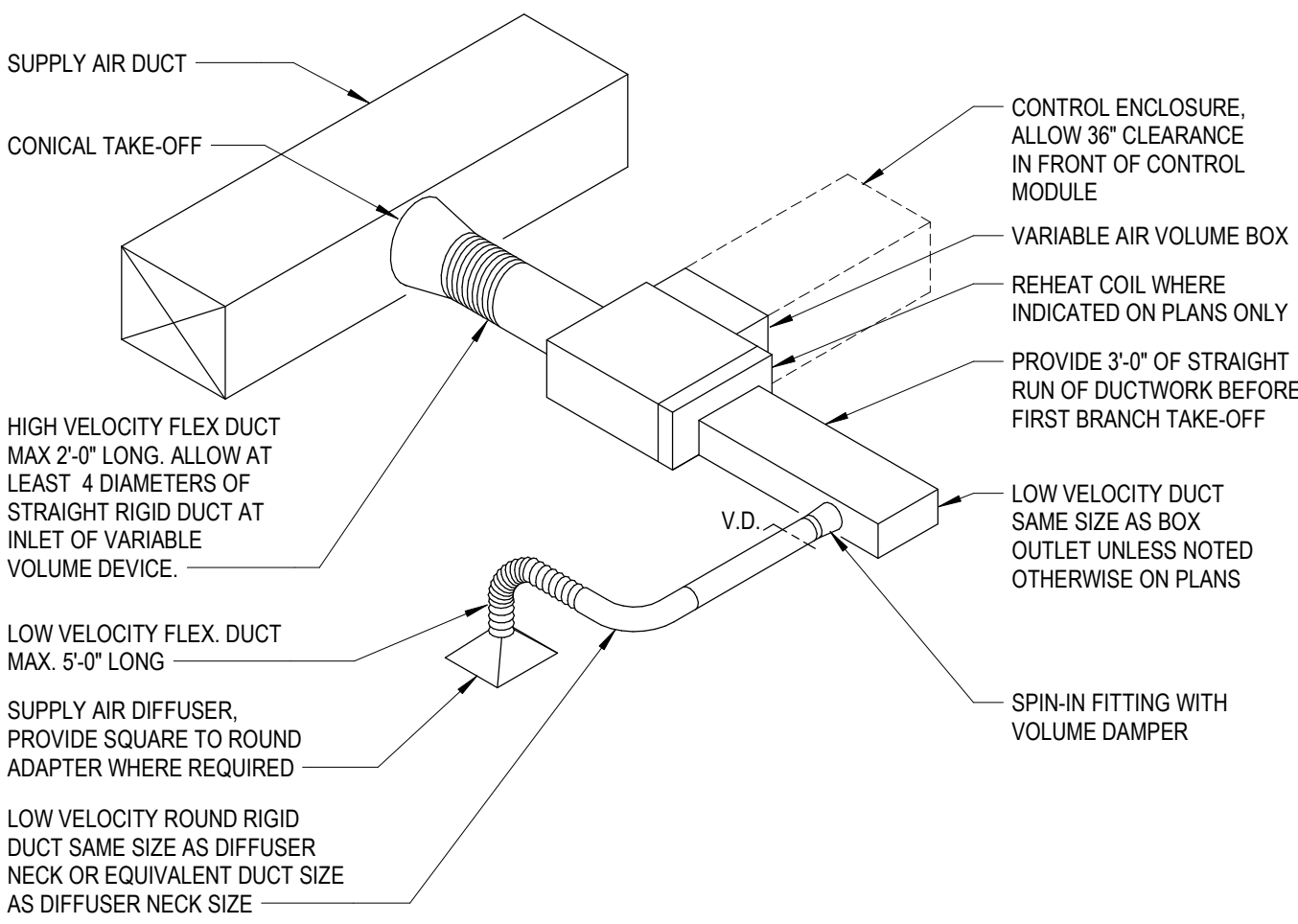
First Floor Plumbing, HVAC Piping & Fire Protection Plan



SQUARE AND RECTANGULAR ELBOWS - LOW VELOCITY
NO SCALE



TYPICAL TRANSFER AIR 'Z-DUCT' DETAIL
NO SCALE



TYPICAL VAV BOX DETAIL
NO SCALE

FAN SCHEDULE																							
MARK	LOCATION	AREA SERVED	DESIGN AIRFLOW (CFM)	INITIAL COIN. AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN. WG.)	FAN DATA				MOTOR DATA			ELECTRICAL V/PH/Hz	INLET SOUND POWER LEVEL								"GREENHECK" MODEL No.	REMARKS
						TYPE	DRIVE	FAN CLASS	FAN RPM	HP	BHP	RPM		63	125	250	500	1K	2K	4K	8K		
														HZ	H2	H2	H2	H2	HZ	HZ	HZ		
EF-1	INLINE ABOVE CEILING	TOILETS, WORK RM, KITCHENETTE	600	600	0.50	INLINE	DIRECT		1696	1/6	0.13	1725	115/160	80	79	74	67	61	51	42	40	SQ 95-VG	WEIGHT= 59 LBS.

NOTES:
1. PROVIDE ALL FANS WITH FACTORY MOUNTED AND WIRED DISCONNECT.

VARIABLE VOLUME TERMINAL WITH TEMPERING COIL SCHEDULE																						
MARK	HVAC SYSTEM	ROOM		MAX COOLING AIRFLOW (CFM)	MAX HEATING AIRFLOW (CFM)	MIN AIRFLOW (CFM)	INLET SIZE	OUTLET DUCT SIZE	MIN SP TO OPER. BOX	MAX NC	HOT WATER TEMPERING COIL										"PRICE" MODEL NO.	REMARKS
		No.	NAME								FLOW (GPM)	CAPACITY (MBH)	EWI (°F)	LWT (°F)	EAT (°F)	LAT (°F)	MAX PD (FT HD)	COIL RUNOUT (IN.)				
VAV - 1.1	1	122	EXECUTIVE OFFICE	1,140	570	570	12"	16"x15"	0.26	28	0.9	18.5	180	140	55	85	3	12	SDV			
VAV - 1.2	1	121	EXECUTIVE OFFICE	1,705	855	855	16"	24"x18"	0.20	32	1.4	27.7	180	140	55	85	3	3/4	SDV			
VAV - 1.3	1	123	EXECUTIVE OFFICE	915	460	460	10"	14"x12.5"	0.25	25	0.7	14.9	180	140	55	85	3	1/2	SDV			
VAV - 1.4	1	120	EXECUTIVE OFFICE	915	460	460	10"	14"x12.5"	0.25	25	0.7	14.9	180	140	55	85	3	1/2	SDV			
VAV - 1.5	1	1HW2	CORRIDOR	470	235	235	8"	12"x10"	0.25	27	0.5	7.6	180	140	55	85	3	1/2	SDV			
VAV - 1.6	1	119A	KITCHENETTE	750	375	375	10"	14"x12.5"	0.25	25	0.6	12.2	180	140	55	85	3	1/2	SDV			
VAV - 1.7	1	118	BOARD ROOM	1,850	925	925	16"	24"x18"	0.20	32	1.5	30.0	180	140	55	85	3	3/4	SDV			
VAV - 1.8	1	1MR1	MEETING ROOM	600	600	600	8"	12"x10"	0.25	27	1.0	19.4	180	140	55	85	3	1/2	SDV			
VAV - 1.9	1	1WR1	WORK ROOM	200	100	100	6"	12"x8"	0.25	25	0.5	3.2	180	140	55	85	3	1/2	SDV			
VAV - 1.10	1	119	FOYER/WAITING	1,200	600	600	12"	16"x15"	0.26	28	1.0	19.4	180	140	55	85	3	1/2	SDV			
VAV - 1.11	1	---	EXIST 2 STORY AREA	1,975	990	990	16"	24"x18"	0.20	32	1.6	32.1	180	140	55	85	3	3/4	SDV			

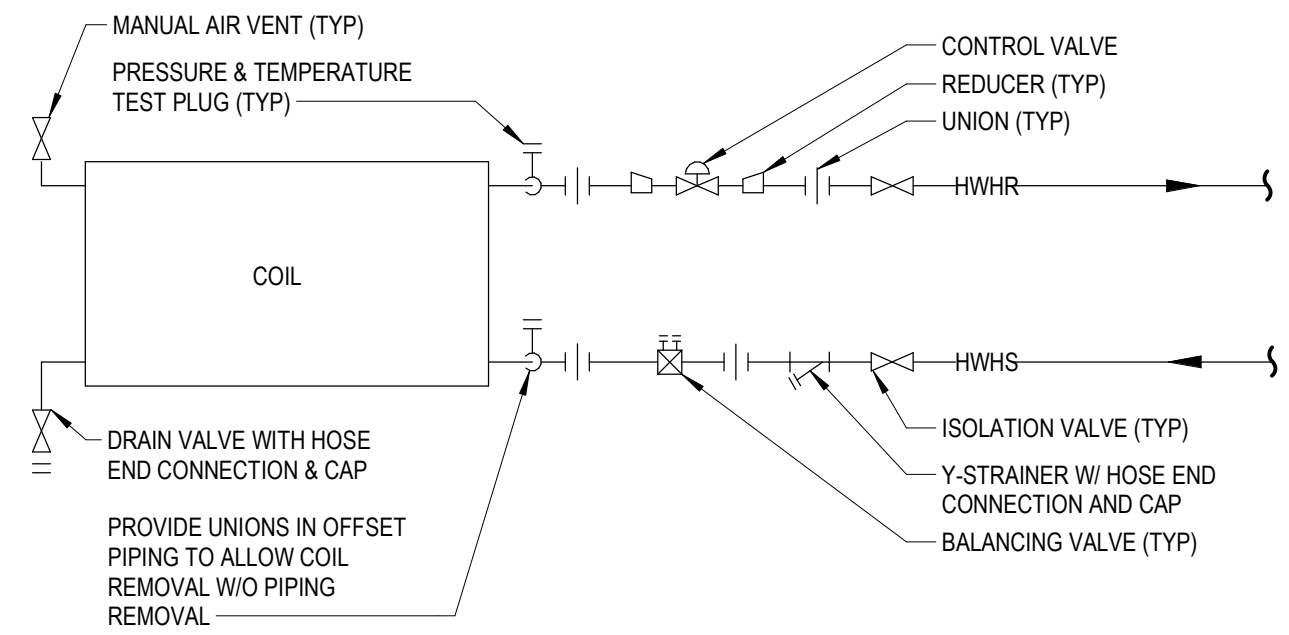
NOTES:
1. MAX NC LEVEL BASED ON 1.5' INLET SP WITH NO ALLOWANCE FOR EXTERNAL ATTENUATION.
2. PROVIDE A 24"x24" CEILING MOUNTED ACCESS DOOR FOR ALL VARIABLE BOXES MOUNTED ABOVE INACCESSIBLE CEILINGS.

HOT WATER CABINET UNIT HEATER SCHEDULE																	
MARK	HEATING CAPACITY (MBH)	FLUID FLOW (GPM)	EWT (°F)	LWT (°F)	EAT (°F)	LAT (°F)	FAN			FILTER		ENCLOSURE	ELECTRICAL		"MANUFACTURER" MODEL No.	REMARKS	
							CFM	HP	RPM	TYPE	AREA (SF)	L X D X H (IN.)	V/PH/Hz	AMPS			
CU-H-A	29.8	2.0	180	150	65	95	345	1/10	1050	PERM	1.9	47"x9 1/2"x25"	120/160	1.40	STERLING RC-1200 SIZE 04		

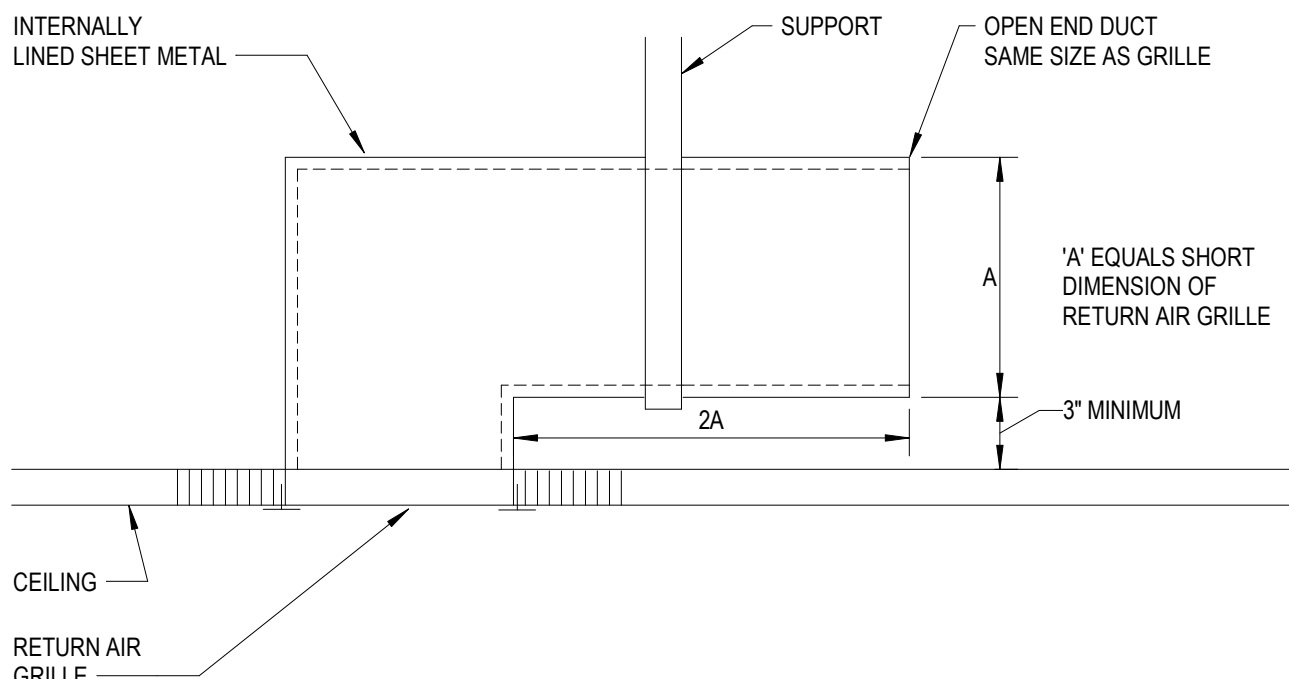
NOTES:
1. PROVIDE WITH FACTORY MOUNTED AND WIRED DISCONNECT.
2. PROVIDE WITH INTEGRAL RETURN AIR THERMOSTAT.

GRILLE, REGISTER AND DIFFUSER SCHEDULE							
MARK	CORE STYLE	BORDER FRAME TYPE	MODULE SIZE	FINISH	ACCESSORY	CONSTRUCTION	"TITUS" MODEL No.
SD-A	PANEL	NOTE 1	24"x24"	WHITE	NONE	STEEL	OMNI
RG-A	LOUVER	PLASTER FRAMES	24"x24"	BY ARCH.	NONE	STEEL	350RL
RG-B	LOUVER	NOTE 1	24"x12"	WHITE	NONE	STEEL	350RL
LD-A	LINEAR SLOT	NOTE 1	72" LONG	BLACK FOR BOARDROOM..	MPL-39 PLENUM INSULATED	ALUMINUM	ML-39 1" SLOTS
LD-B	LINEAR SLOT	NOTE 1	24" LONG	WHITE	MPL-39 PLENUM INSULATED	ALUMINUM	ML-39 1" SLOTS
LR-A	LINEAR SLOT	NOTE 1	72" LONG OR 24" LONG	WHITE	MP-39 PLENUM UNINSULATED	ALUMINUM	MLR-39 1" SLOTS
LE-A	LINEAR SLOT	NOTE 1	24" LONG	WHITE	MP-39 PLENUM UNINSULATED	ALUMINUM	MLR-39 1" SLOTS

NOTES:
1. COORDINATE MOUNTING FRAMES WITH REFLECTED CEILING PLANS.
2. ALL WALL AND DUCT MOUNTED GRILLES SHALL HAVE COUNTER-SUNK SCREWS.
3. COORDINATE LENGTH OF ALL LINEAR SUPPLIES AND RETURNS WITH ARCHITECTURAL FLOOR PLANS AND REFLECTED CEILING PLANS.
4. LD-A FOR NON BOARDROOM AREAS SHALL BE WHITE.
5. RG-A FOR FOYER AREA SHALL BE PAINTED BY ARCH. TRADES



TERMINAL HOT WATER HEATING COIL WITH 2 - WAY CONTROL VALVE
NO SCALE



TYPICAL CEILING RETURN AIR GRILLE SOUND TRAP
NO SCALE

Project Title



Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan

Project Administrator		Issue Date
C. Azar		
Project Designer		Design Development
P. Carmella		02-19-2021
Project Architect / Engineer		Quality Management Review
B. Pantak		04-21-2021
Drawn By		Bids
P. Carmella		07-15-2021
Q.M. Review		
M. Perez		
Approved		
J. Schwartz		
Drawing Scale		
No Scale		
Issued for		
Design Development		
Quality Management Review		
Bids		



SEQUENCE OF OPERATION

GENERAL

1. THE OPERATING MODE OF THE TERMINAL BOX SHALL BE AUTOMATICALLY CYCLED BETWEEN OCCUPIED AND UNOCCUPIED MODE BASED ON THE ASSOCIATED CENTRAL UNIT OCCUPANCY SCHEDULE.
 2. REHEAT COIL CONTROL SHALL BE LIMITED SUCH THAT THE REHEAT COIL LEAVING AIR TEMPERATURE DOES NOT EXCEED 20°F GREATER THAN THE SPACE TEMPERATURE SETPOINT.
- OCCUPIED MODE OPERATION
1. THAT SHALL CONTROL HEATING AND COOLING TO MAINTAIN THE SPACE TEMPERATURE WITHIN ± 1°F OF THE USER SET TEMPERATURE SETPOINT.
 2. ON A DEMAND FOR HEATING OR COOLING, THE DAMPER SHALL CONTROL AIRFLOW TO MAINTAIN THE SPACE TEMPERATURE WITHIN ± 1°F OF THE USER SET TEMPERATURE SETPOINT.
 3. ON A DEMAND FOR COOLING, THE DAMPER SHALL CONTROL TOWARDS THE MAXIMUM COOLING AIRFLOW CFM SETPOINT.
 4. ON A DEMAND FOR HEATING, FIRST THE REHEAT CONTROL VALVE SHALL INCREASE HEATING TOWARDS MAXIMUM. UPON A FURTHER DEMAND FOR HEATING, THE DAMPER SHALL CONTROL AIRFLOW TOWARDS THE MAXIMUM HEATING AIRFLOW CFM SETPOINT.
- UNOCCUPIED MODE OPERATION
1. THE REHEAT COIL CONTROL VALVE SHALL CLOSE.



SEQUENCE OF OPERATION

GENERAL

1. THE OPERATING MODE OF THE TERMINAL BOX SHALL BE AUTOMATICALLY CYCLED BETWEEN OCCUPIED AND UNOCCUPIED MODE BASED ON THE ASSOCIATED CENTRAL UNIT OCCUPANCY SCHEDULE
 2. REHEAT COIL CONTROL SHALL BE LIMITED SUCH THAT THE REHEAT COIL LEAVING AIR TEMPERATURE DOES NOT EXCEED 20°F GREATER THAN THE SPACE TEMPERATURE SETPOINT
 3. THE FINned TUBE RADIATION CONTROL VALVE SHALL BE REMAIN CLOSED WHEN THE OUTSIDE AIR TEMPERATURE IS GREATER THAN 65°F.
- OCCUPIED MODE OPERATION
1. THE UNIT SHALL CONTROL HEATING AND COOLING TO MAINTAIN THE SPACE TEMPERATURE WITHIN +/- 1°F OF THE USER SET TEMPERATURE
 2. FOR HEATING AND COOLING, THE DAMPER SHALL CONTROL AIRFLOW TO THE MINIMUM AIRFLOW CFM SETPOINT
 3. FOR A DEMAND FOR COOLING, THE DAMPER SHALL CONTROL TOWARDS THE MAXIMUM COOLING AIRFLOW CFM SETPOINT
 4. FOR A DEMAND FOR HEATING, FIRST THE REHEAT CONTROL VALVE AND FINned TUBE RADIATION CONTROL VALVE SHALL INCREASE HEATING TOGETHER TOWARDS MAXIMUM TOWARD A FURTHER DEMAND FOR HEATING, THE DAMPER SHALL CONTROL AIRFLOW TOWARDS THE MAXIMUM HEATING AIRFLOW CFM SETPOINT.
- UNOCCUPIED MODE OPERATION
1. THE REHEAT COIL CONTROL VALVE SHALL CLOSE
 2. THE FINned TUBE RADIATION CONTROL VALVE SHALL CONTROL TO MAINTAIN THE UNOCCUPIED HEATING TEMPERATURE SETPOINT (60°F).



NOTES

1. DIAGRAM IS APPLICABLE TO EXHAUST FAN EF-1, 7, 8, AND 9.

SEQUENCE OF OPERATION

1. THE EF SHALL BE SET TO ACTIVATE AND DEACTIVATE ACCORDING TO THE SET OPERATION TIME SCHEDULE FOR OCCUPIED AND UNOCCUPIED TIME PERIODS.



SEQUENCE OF OPERATION

1. THE CABINET UNIT HEATER FAN AND VALVE SHALL CYCLE TO MAINTAIN THE INTEGRAL THERMOSTAT TEMPERATURE SETPOINT.
2. APPLICABLE TO UNITS LOCATED IN BUILDING VESTIBULES OR NEAR EXTERIOR DOORS, WHEN THE OUTSIDE AIR TEMPERATURE IS GREATER THAN 45°F (ADJ), THE BAS SHALL DISABLE THE UNIT.



NOTES

1. THE MECHANICAL SYSTEMS CONTROLS CONTRACTOR (MSCC) SHALL PROVIDE A NEW BUILDING AUTOMATION SYSTEM (BAS) CONTROLLER/GATEWAY DEVICE OR DEVICES, POWER SUPPLIES, AND NEMA 1 ENCLOSURES AS NECESSARY TO INTEGRATE ALL IDENTIFIED FIELD DEVICES AND DEVICE NETWORKS TO THE EXISTING COMMON FRANKENMUTH INSURANCE BAS FRONT END SERVER.
2. MSCC SHALL PROVIDE ETHERNET IP DATA CONNECTION(S) AS NECESSARY AND SHALL LOCATE DEVICE(S) IN COORDINATION WITH OWNER.

Project Administrator	C. Azari
Project Designer	C. Murphy
Project Architect / Engineer	B. Partak
Drawn By	C. Murphy
Q.M. Review	M. Perez
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Drawing Scale	As Noted
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A		D	
AC	AMPERES	DA	DIGITAL
ACJ	ALTERNATING CURRENT	DC	
ACQ	AIR CONDITIONING UNIT	DEMO	DEMONSTRATION
AF	ABOVE FINISH FLOOR	DEPT	
AHJ	AIR HANDLING UNIT	DIA	
AIC	AMPERES INTERRUPTING CAPACITY	DISC	
ALT	ALTERNATE	DN	
AP	AMPERE PLUG	DP	
ARCH	ARCHITECT, ARCHITECTURAL	DT	DISPATCH
AS	AMPERE SENSOR	DWG	
AT	AMPERE TRIP		
ATS	AUTOMATIC TRANSFER SWITCH		
AV	AUDIOVISUAL		
AWG	AMERICAN WIRE GAUGE	EA	
		EC	ELECTRIC CODE
B		EDH	ELECTRICIAN
BLDG	BUILDING	EF	
BOT	BOTTOM	ELEC	
BSMT	BASEMENT	ELEV	
		EM	
C		EMT	ELECTRIC METAL TUBING
CAB	CABINET	EP	ELECTRIC PANEL
CB	CIRCUIT BREAKER	EQU	ELECTRIC EQUIPMENT
CCTV	CLOSED CIRCUIT TELEVISION	EW	ELECTRIC WIRE
CD	CANDELA	EWI	ELECTRIC WIRE INSULATION
CKT	CIRCUIT	EXIST	
CLG	CEILING		
COMP	COMPUTER		
CON	CONTROL PANEL		
CT	CABLE TRAY		
CUH	CABINET UNIT HEATER		

DETAIL SYMBOL

DETAIL IDENTIFICATION

DETAIL

DETAIL SCALE

DRAWING WHERE DETAIL IS REFERENCED OR CUT

PLAN OR DETAIL ENLARGEMENT

PLAN OR DETAIL IDENTIFICATION

DRAWING WHERE PLAN OR DETAILS IS DRAWN

SECTION LOCATOR

SECTION IDENTIFICATION

DRAWING WHERE PLAN OR DETAIL IS DRAWN

ELEVATION SYMBOL

ELEVATION NUMBER

EXISTING

NEW

COLUMN CENTERLINE

ROOM NAME AND NUMBER

ROOM NAME

FLOOR

ROOM BUILDING OR UNIT (IF ANY)

LIGHTING

	LIGHTING FIXTURE, RECESSED OR SURFACE MOUNTED		LINE VOLTAGE
	LIGHTING FIXTURE, RECESSED OR SURFACE MOUNTED ON NIGHT LIGHT OR EMERGENCY CIRCUIT		LINE VOLTAGE
	LIGHTING FIXTURE, PENDANT MOUNTED		LINE VOLTAGE
	LIGHTING FIXTURE, PENDANT MOUNTED ON NIGHT LIGHT OR EMERGENCY CIRCUIT		LINE VOLTAGE
	STRIP LIGHTING FIXTURE		LINE VOLTAGE
	STRIP LIGHTING FIXTURE ON NIGHT LIGHT OR EMERGENCY CIRCUIT		LINE VOLTAGE
	LIGHTING FIXTURE, RECESSED AMIABLE OR WALL WASH		LINE VOLTAGE
	LIGHTING FIXTURE, RECESSED OR PENDANT MTD		LINE VOLTAGE
	LIGHTING FIXTURE, RECESSED OR PENDANT MTD ON NIGHT LIGHT OR EMERGENCY CIRCUIT		LINE VOLTAGE
	LIGHTING FIXTURE, SURFACE MOUNTED		LINE VOLTAGE
	LIGHTING FIXTURE, SURFACE MOUNTED ON NIGHT LIGHT OR EMERGENCY CIRCUIT		LINE VOLTAGE
	TRACK LIGHTING		LINE VOLTAGE
	LIGHTING FIXTURE, WALL MOUNTED		LINE VOLTAGE
	LIGHTING FIXTURE, WALL MOUNTED ON NIGHT LIGHT OR EMERGENCY CIRCUIT		LINE VOLTAGE
	LIGHTING FIXTURE, UNDERCABINET MOUNTED		LINE VOLTAGE
	LIGHTING FIXTURE, COVE MOUNTED		LINE VOLTAGE
	EXIT LIGHTING FIXTURE SINGLE OR DOUBLE FACE WITH DIRECTIONAL ARROWS - CEILING OR PENDANT MOUNTED		LINE VOLTAGE
	WALL MOUNTED EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS		LINE VOLTAGE
	CEILING MOUNTED SELF-CONTAINED EMERGENCY LIGHTING UNIT		LINE VOLTAGE
	WALL MOUNTED SELF-CONTAINED EMERGENCY LIGHTING UNIT		LINE VOLTAGE
	POLE MOUNTED AREA LIGHTING FIXTURE, QUANTITY OF LUMINAIRES AS INDICATED		LINE VOLTAGE
	SITE LIGHTING, BOLLARD		LINE VOLTAGE
	POST TOP POLE MOUNTED AREA LIGHTING FIXTURE		LINE VOLTAGE
	SITE LIGHTING FIXTURE, ADJUSTABLE FLOOD		LINE VOLTAGE

MOUNTING HEIGHTS	
<p>BATTERY OPERATED EMERGENCY LIGHTING</p> <p>CLOCKS</p> <p>SPEAKERS</p> <p>EXTINGUISHER LIGHTS</p> <p>ALL TYPES OF SWITCHES</p> <p>FIRE ALARMS</p> <p>PULL STATION</p> <p>VOLUME CONTROLS</p> <p>CARD ACCESS SYSTEMS</p> <p>KEY SWITCH</p> <p>TELEPHONE</p> <p>OUTLET-WALL MOUNTED</p> <p>INTERCOM</p> <p>CALL BUTTON</p> <p>AUDIO FREQUENCY INDICATING DEVICES</p> <p>AUDIO VISUAL FREQUENCY INDICATING DEVICES</p> <p>VISUAL FREQUENCY INDICATING DEVICES</p> <p>QUICK RECEPTACLE OUTLET FOR TV MONITOR</p> <p>TELEVISION OUTLET FOR TV MONITOR</p> <p>WALL MOUNTED TELEVISION</p> <p>RECEPTACLE OUTLET</p> <p>COMMON PHONE OUTLET</p> <p>MICROPHONE OUTLET</p>	<p>7'-6" AFF</p> <p>7'-6" AFF TO BOTTOM</p> <p>4'-7" AFF</p> <p>7'-6" AFF</p> <p>NOTE 3</p> <p>7'-6" AFF</p> <p>7'-6" AFF UNO</p> <p>1'-6" AFF</p>
<p>COMMUNICATIONS OUTLET MOUNTED ABOVE COUNTER</p> <p>DUPLEX RECEPTACLE ABOVE COUNTER</p> <p>COMMUNICATIONS OUTLET MOUNTED ABOVE COUNTER</p> <p>DUPLEX RECEPTACLE ABOVE COUNTER</p> <p>GF DUPLEX RECEPTACLE ABOVE SINK</p> <p>DISCONNECT SWITCHES</p> <p>MOTOR STARTERS</p> <p>200/120/480VTTV PANELBOARDS</p>	<p>36" AFF</p> <p>48" AFF</p> <p>36" AFF</p> <p>36" AFF</p> <p>44" AFF</p> <p>5'-0" AFF TO TOP</p> <p>6'-0" AFF TO TOP</p>
<p>MOUNTING HEIGHT NOTES:</p> <ol style="list-style-type: none"> 1. MOUNTING HEIGHTS ARE TYPICAL UNLESS OTHERWISE NOTED ON DRAWINGS. 2. FOR CEILING HEIGHTS BELOW 8'-4" REFER TO DRAWINGS FOR CLOCKS, SPEAKERS, EXIT LIGHTS AND EGRESS LIGHTS MOUNTING HEIGHTS. 3. WALL MOUNTED FIRE ALARM VISUAL INDICATING DEVICES AND COMBINATION XRAY DEVICES SHALL BE INSTALLED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80° AND NOT GREATER THAN 96° AFF. 	

SINGLE RECEPTACLE OUTLET		SINGLE PHASE MOTOR
DUPLEX RECEPTACLE OUTLET		THREE PHASE MOTOR
CIRCLE OUTLET FLUSH MOUNTED IN CEILING		MAGNETIC MOTOR STARTER
UNTERMINATED POWER ONLY FLOOR BOX		COMBINATION MAGNETIC MOTOR STARTER & FUSE
		DISCONNECT SWITCH - SWITCH SIZE / FUSE SIZE

CEILING MOUNTED SINGLE FACED CLOCK	
CEILING MOUNTED DOUBLE FACED CLOCK	
WALL MOUNTED SINGLE FACED CLOCK	
WALL MOUNTED DOUBLE FACED CLOCK	
COMBINATION WALL MOUNTED SPEAKER/CLOCK	
WALL MOUNTED COMBINATION SPEAKER/CLOCK	
WALL MOUNTED DIGITAL CLOCK	
CEILING MOUNTED SPEAKER	
CEILING MOUNTED SPEAKER CLUSTER	
WALL MOUNTED SPEAKER	
CEILING MOUNTED MICROPHONE OUTLET	
WALL MOUNTED MICROPHONE OUTLET	
WALL MOUNTED AUXILIARY OUTLET	
WALL MOUNTED VOLUME CONTROL	
WALL MOUNTED BELL	
WALL MOUNTED CHIME	
WALL MOUNTED HORN SPEAKER	

ALL MOUNTED AREA SMOKE DETECTOR
ING MOUNTED AREA SMOKE DETECTOR
MOUNTED AREA SMOKE/CO DETECTOR
G MOUNTED TEMPERATURE DETECTOR
DUCT SMOKE DETECTOR
ED MAGNETIC DOOR HOLDER/RELEASE
WATER FLOW SWITCH
TAMPER SWITCH
FIRE FIGHTER TELEPHONE JACK
FIRE ALARM CONTROL PANEL
UPPRESSION SYSTEM CONTROL PANEL
ALARM REMOTE ANNUNCIATOR PANEL
SINGLE BED STATION - NURSE CALL
DOUBLE BED STATION - NURSE CALL
BATHROOM STATION - NURSE CALL
STATION PULL CORD - NURSE CALL
CODE BLUE PUSHBUTTON - NURSE CALL

ANALOG AMPERE/VOLTS METER
ANALOG ENERGY USAGE METER
DIGITAL MULTI-FUNCTION METER
KIRK KEY INTERLOCK
CIRCUIT BREAKER
SWITCH
FUSE
TRANSFORMER
TRANSFER SWITCH
THERMAL OVERLOAD
CONTACTS
INDICATES WIRE SIZE AND CONDUIT SIZE
DRAWOUT CIRCUIT BREAKER
AIR-MAG / VACUUM CIRCUIT BREAKER
ENGINE GENERATOR
SYSTEM OR EQUIPMENT GROUND

EXOTHERMIC WELD OR BRAZED CONNECTION
CONDUIT IN OR BELOW FLOOR SLAB OR BELOW GRADE
RACEWAY TURNED UP
RACEWAY TURNED DOWN
SEAL-OFF - CONDUIT SEAL
CABLE TRAY
UNDERFLOOR DUCT - POWER
UNDERFLOOR HEADER DUCT - POWER
UNDERFLOOR DUCT - COMM
UNDERFLOOR HEADER DUCT - COMM

FLUSH IN-GRADE HAND HOLE
UNDERGROUND ELECTRICAL
UNDERGROUND COMMUNICATIONS
UNDERGROUND FIBER OPTIC
COMMUNICATIONS
UNDERGROUND LIGHTING
EMERGENCY "CODE BLUE" BOLLARD

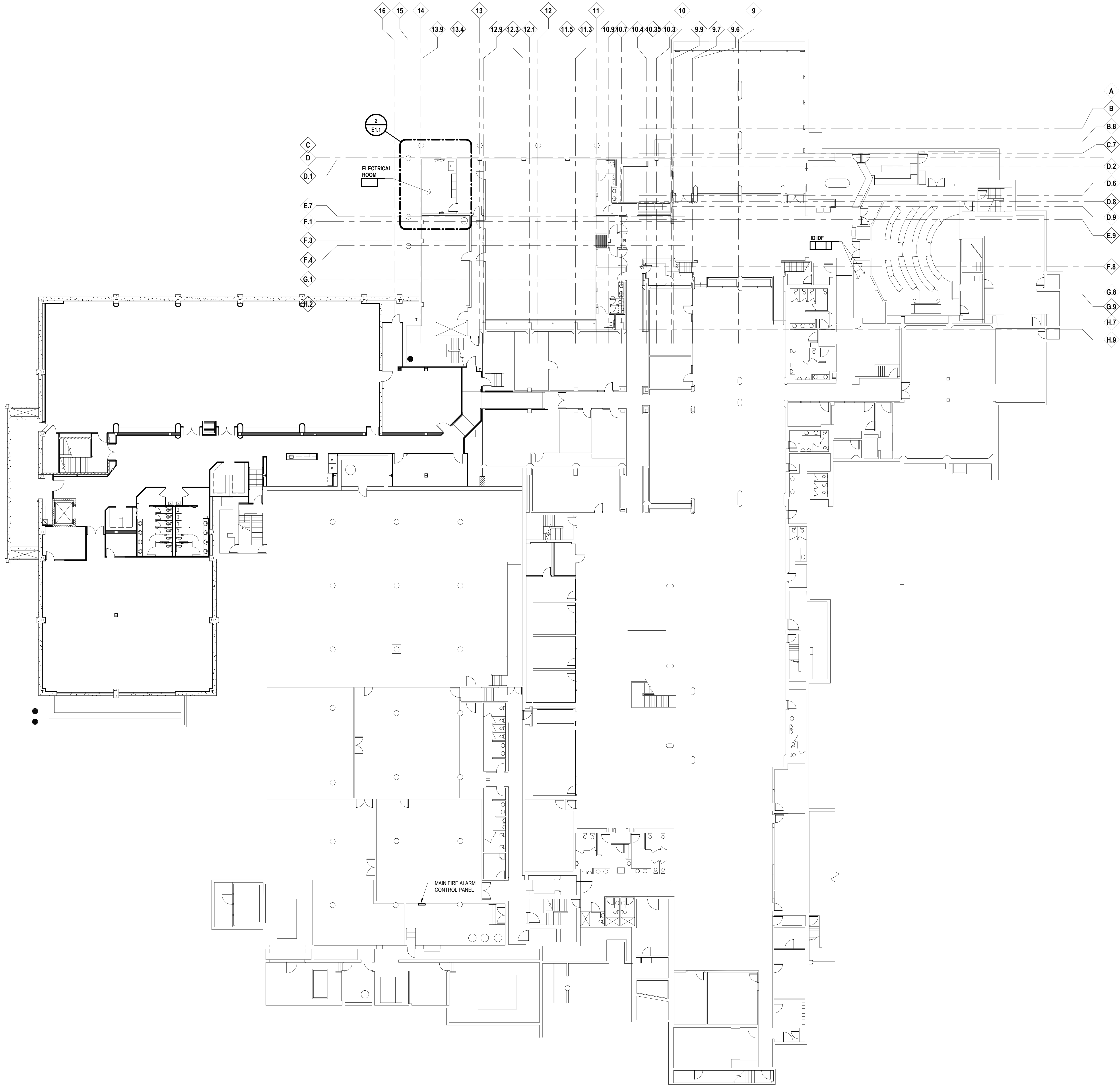
ER.0	Electrical Reference Information
E0.01	Basement Composite Plan
E0.1	First Floor Composite Plan
E1.1	Partial Technology and Electrical Demolition Plans
E2.1	Partial First Floor Lighting Plan
E3.1	Partial First Floor Power & Auxiliary Systems Plan
E6.1	Panel Schedules & Partial One-Line Diagram
E7.1	Details
E8.1	Lighting Fixture Schedule & Lighting Controls Risers

1. ALL ITEMS SHOWN AS HATCHED SHALL BE DISCONNECTED AND REMOVED. LIGHT LINE WEIGHT INDICATES EXISTING EQUIPMENT TO REMAIN. HEAVY LINE WEIGHT INDICATES NEW EQUIPMENT TO BE INSTALLED.
2. ITEMS DENOTED BY THE LETTER "R" INDICATE EXISTING EQUIPMENT TO BE RELOCATED. THESE ITEMS SHALL BE DISCONNECTED, REMOVED AND STORED FOR REINSTALLATION IN NEW LOCATIONS AS INDICATED ON NEW WORK SHEETS.
3. WHERE APPLICABLE AND NOT SPECIFICALLY INDICATED OTHERWISE, EXISTING IN PLACE CONDUTTS, JUNCTION BOXES, PULL BOXES AND HANGERS MAY BE REUSED FOR NEW POWER PROVIDING THAT THE INSTALLATION IS IN ACCORDANCE WITH THE PROJECT'S SPECIFICATIONS.
4. WHERE CONDUTTS ARE ROUTED CONCEALED IN WALL CAVITIES FOR ELECTRICAL SERVICE, THE CONDUTTS SHALL BE REMOVED. ABANDON THE CONDUTT CONCEALED IN THE WALL CAVITY. REMOVE ALL EXISTING OR CUTTING EXISTING CONDUTTS INTO AND OUT OF THE WALL CAVITY. REMOVE ALL CUTTING OR JUNCTION BOX. REMOVE ALL SURFACE MOUNTED OUTLET BOXES ASSOCIATED WITH THE CONDUTT SYSTEM. ABANDON ALL FLUSH MOUNTED OUTLET BOXES ASSOCIATED WITH THE CONDUTT SYSTEM IN PLACE AND PROVIDE NEW BLANK COVER PLATES.
5. DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT AS INDICATED INCLUDING HANGERS, PULL BOXES, JUNCTION BOXES, CONDUTT AND WIRING FROM THE POWER SOURCE TO THE UTILIZATION EQUIPMENT.
6. WHERE REMOVAL OF CONDUTT AND WIRING EFFECTS THE OPERATION OF THE EQUIPMENT TO BE REMOVED, THE EQUIPMENT WHICH WAS NOT INDICATED TO BE REMOVED, PROVIDE ADDITIONAL CONDUTT AND WIRING TO THE EQUIPMENT AND "DOWNSTREAM" UTILIZATION EQUIPMENT TO ITS NORMAL OPERATION.

1 Mutual Avenue
Frankenmuth, MI 48787

THIS PROJECT MAY NOT UTILIZE ALL THE SYMBOLS,
MATERIALS, ABBREVIATIONS AND STANDARDS INFORMATION
SHOWN ON THIS SHEET

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	Project Designer N. Furgason
	Project Architect / Engineer N. Furgason
	Drawn By N. Furgason
	Q.M. Review T. Carron
	Approved T. Carron
	Drawing Scale As Noted
Issued for	Issue Date
Design Development	02-26-2021
Quality Management Review	04-21-2021
Bids	07-15-2021



Project Title



Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan

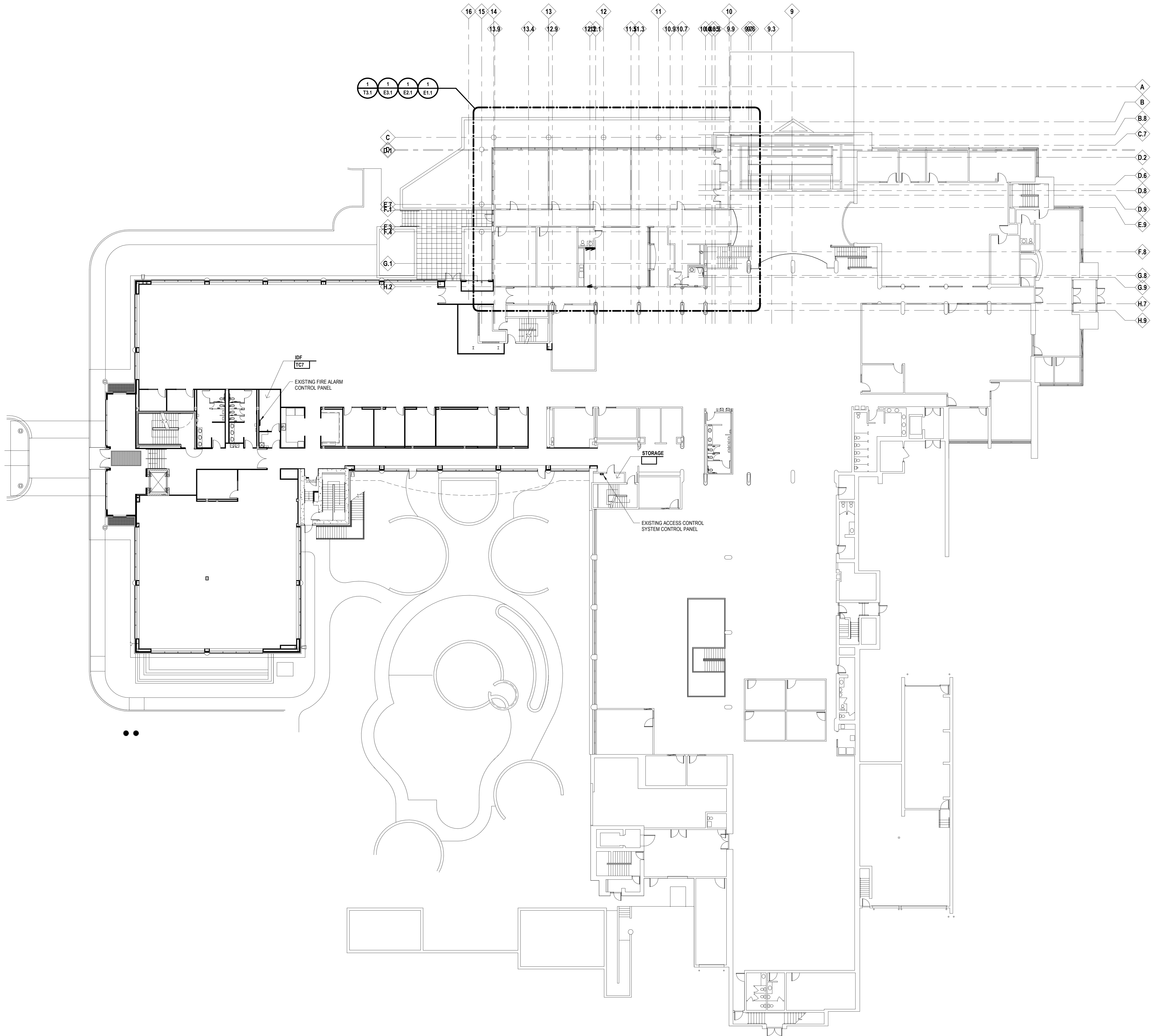


Project Administrator
C. Azar
Project Designer
N. Furgason
Project Architect / Engineer
N. Furgason
Drawn By
N. Furgason
Q.M. Review
T. Carron
Approved
T. Carron
Drawing Scale
1/16" = 1'-0"

Issued for Issue Date
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Basement Composite Plan



Project Title



Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48767

Key Plan



Project Administrator

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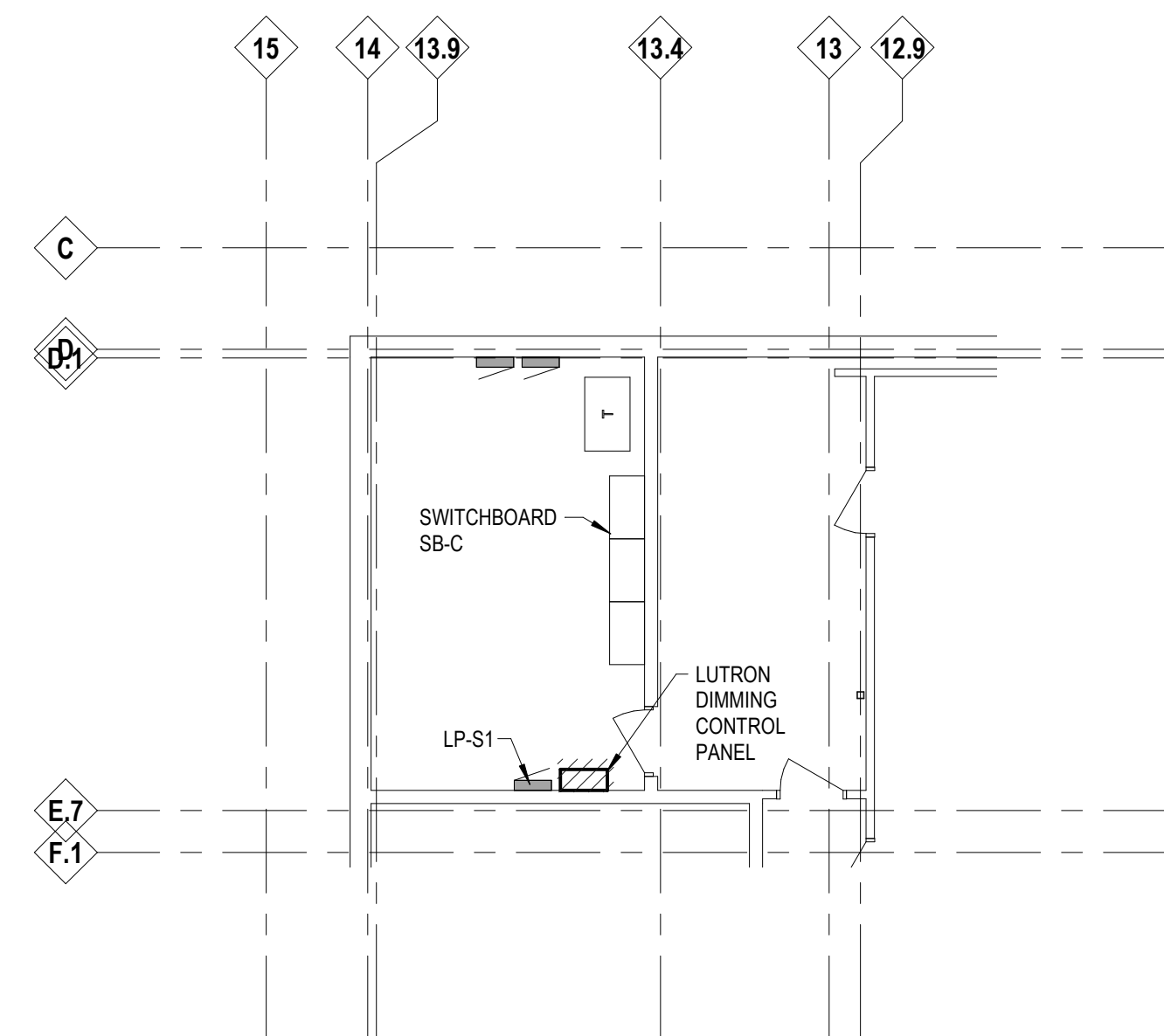
First Floor Composite Plan

103 Project Number

Drawing Number

20120-1000

E0.1



2 PARTIAL BASEMENT DEMOLITION PLAN
E0.01 1/8" = 1'-0"



GENERAL NOTES

1. DISCONNECT ALL ELECTRICAL CONNECTIONS FOR MECHANICAL EQUIPMENT BEING RELOCATED OR REMOVED (VAV BOXES, EXHAUST FANS, ETC) AS INDICATED ON MECHANICAL DRAWINGS.

KEY NOTES

1. PANEL IS BEING RELOCATED/REPLACED. DISCONNECT FEEDER AND ALL REMAINING BRANCH CIRCUITS. PULL BACK TO ACCESSIBLE LOCATION FOR EXTENSION TO NEW LOCATION. REFER TO NEW WORK PLANS.
2. ELECTRICAL DEVICE TO BE REPLACED IN-PLACE. REMOVE ELECTRICAL DEVICE AND FACEPLATE. WIRE TO REMAIN FOR USE WITH NEW DEVICE.
3. LIGHTING BRANCH CIRCUIT SWITCH LEG TO BE REMOVED TO INCORPORATE NEW LIGHTING CONTROLS AND LAYOUT. SEE NEW WORK PLANS.



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Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan



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Partial Technology and Electrical Demolition
Plans

IDS Project Number Drawing Number

20120-1000

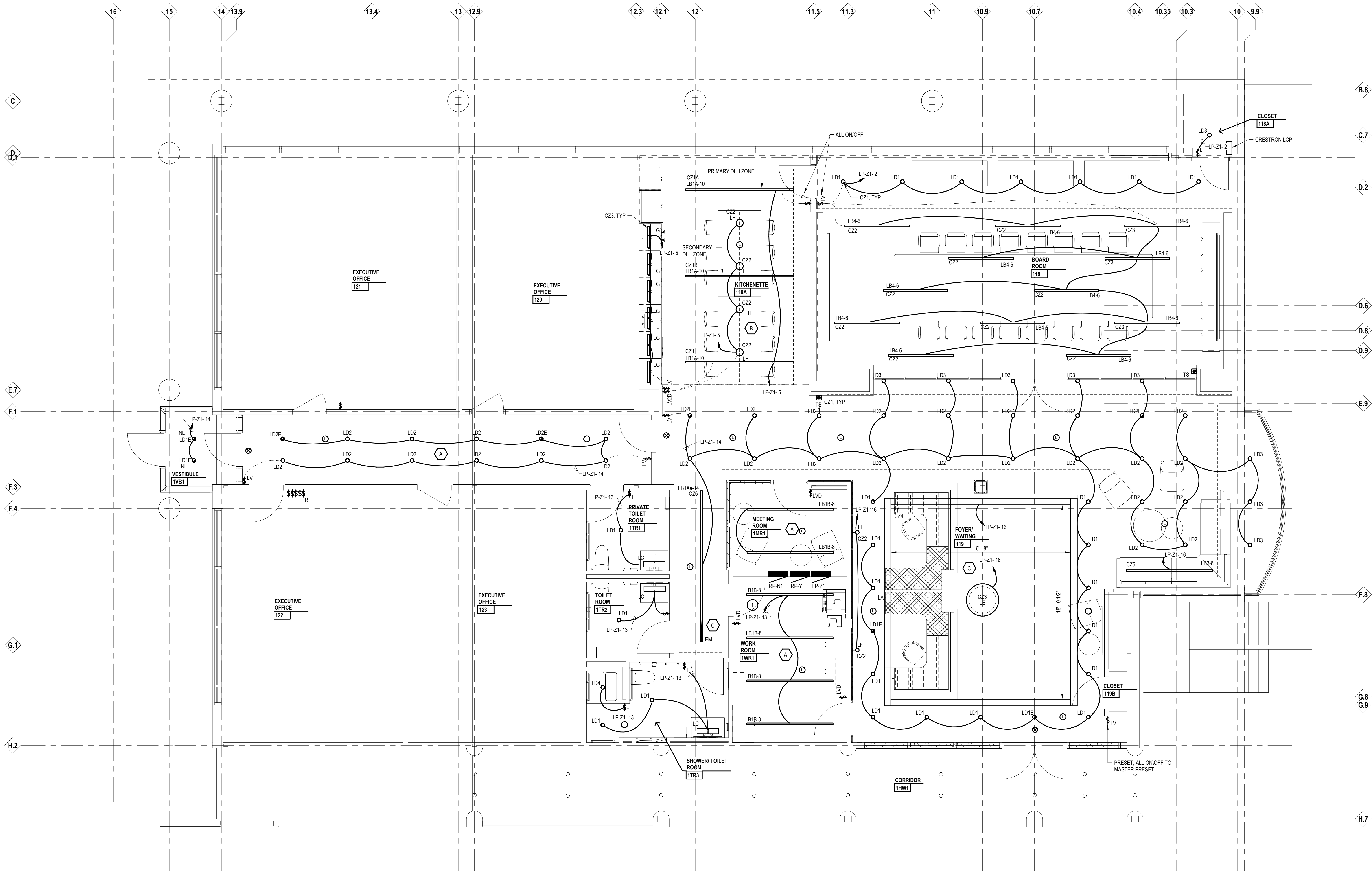
E1.1

GENERAL NOTES

1. MODIFY AND EXTEND EXISTING LOCAL BRANCH LIGHTING CIRCUIT AS REQUIRED FOR NEW LIGHTING CONTROLS AND LAYOUT. CIRCUIT NUMBERS SHOWN ARE INTENDED TO COMMUNICATE DESIGN INTENT ONLY AND ARE BASED ON OWNER PROVIDED RECORD DRAWINGS. EC TO FIELD VERIFY EXISTING CIRCUITING AND ADJUST ACCORDINGLY.
2. ALL EXIT SIGNS ARE TYPE X1, UON, AND SHALL BE CIRCUITED TO THE UNSWITCHED SIDE OF THE LOCAL BRANCH LIGHTING CIRCUIT.
3. ALL EMERGENCY LIGHTING FIXTURES CONTAIN AN EMERGENCY BATTERY PACK THAT REQUIRES AN UNSWITCHED "HOT" TO THE LOCAL BRANCH LIGHTING CIRCUIT FOR VOLTAGE SENSING. WIRE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. COORDINATE LIGHTING FIXTURES TRIMS AND INSTALLATION WITH ARCHITECTURAL DETAILS.



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Project Title



Executive Suite Renovation

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Frankenmuth, MI 48787

Key Plan



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Partial First Floor Lighting Plan

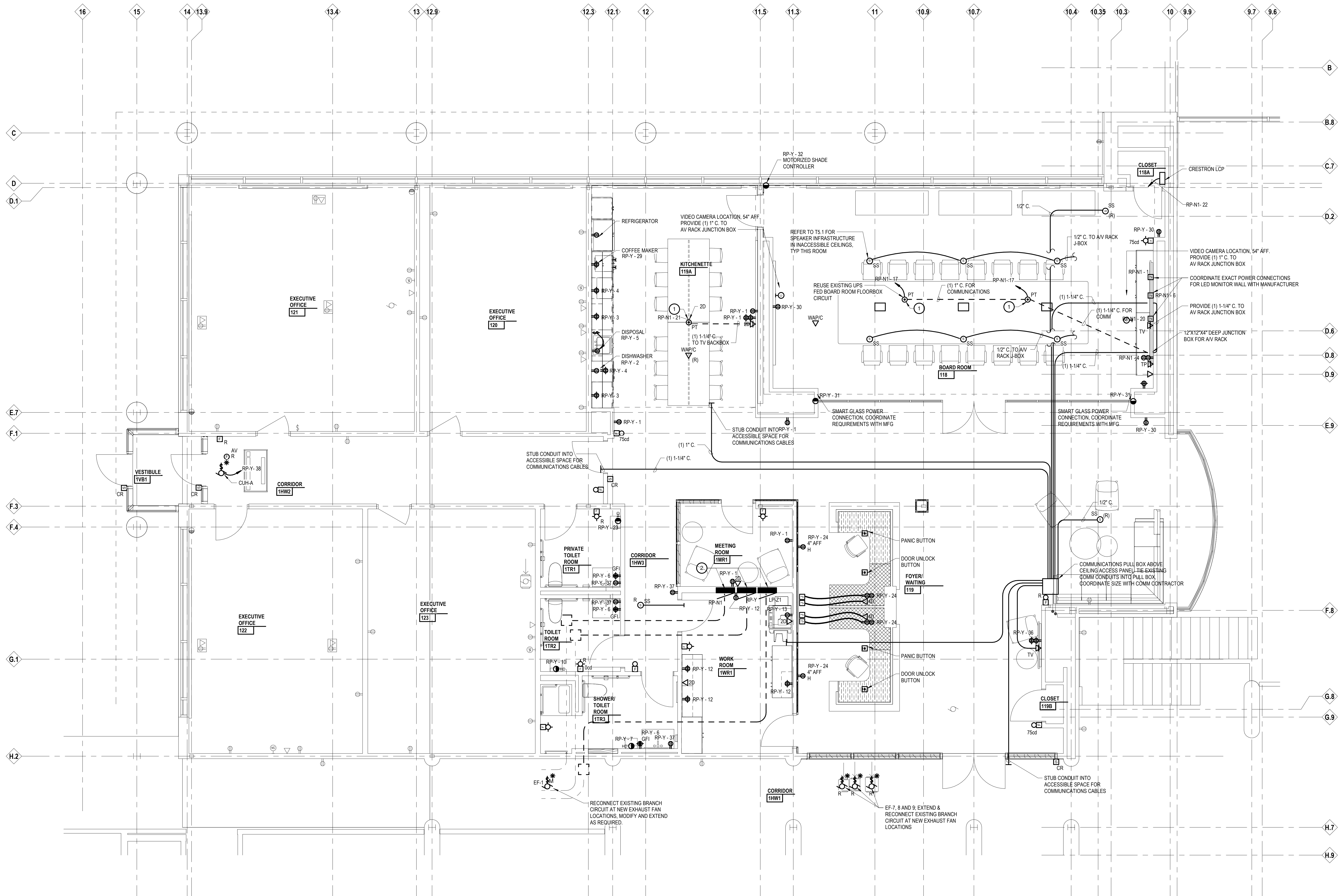
103 Project Number Drawing Number

20120-1000

E2.1

KEY NOTES

1. INSTALL NEW 6" MULTI-SERVICE POKE THROUGH IN EXISTING CONCRETE AND METAL DECK FLOOR. COORDINATE EXACT LOCATION WITH BOARD ROOM TABLE LEG LOCATIONS AND STRUCTURE BELOW.
2. RELOCATE EXISTING SALVAGED RECEPTACLE AND LIGHTING PANELS. MODIFY AND EXTEND EXISTING FEEDERS TO NEW LOCATIONS. MODIFY AND EXTEND EXISTING REMAINING BRANCH CIRCUITS TO NEW PANEL LOCATIONS. FIELD VERIFY EXACT WIRE SIZE AND OVERCURRENT PROTECTION.



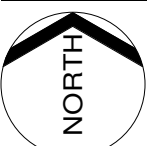
Project Title



Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan



Project Administrator

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Project Architect / Engineer

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Q.M. Review

T. Carron

Approved

T. Carron

Drawing Scale

1/4" = 1'-0"

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02-26-2021

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Partial First Floor Power & Auxiliary
Systems Plan

103 Project Number

Drawing Number

20120-1000

E3.1

Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48767

Key Plan

Project Administrator

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T. Carron

Drawing Scale

As Noted

Issued for Issue Date

Design Development 02-26-2021

Quality Management Review 04-21-2021

Bids 07-15-2021

PANELBOARD SCHEDULE												RP-Y	
200 AMPS MLO													
S.	CKT.	LOAD	CB	A	B	C	CB	LOAD	CKT.	S.			
	1	Receptacle Room 119, 11R1, 119A	20	1260	500		20	Dishwasher KITCHENETTE 119A	2				
	3	Receptacle KITCHENETTE 119A	20		360	360	20	Counter Receptacle KITCHENETTE 119A	4				
	5	Receptacle KITCHENETTE 119A	20			500	540	General Receptacle Room 11R2, 11R3, 11R1	6				
	7	Equipment SHOWER/ TOILET ROOM 11R3	20	1100	360		20	Existing Receptacle	8				
	9	Existing Receptacle	20			180	1100	HAND DRYER TOILET ROOM 11R2	10				
	11	Existing FB and Receptacles	20				180	720	Receptacle WORK ROOM 1WR1	12			
	13	Receptacle WORK ROOM 1WR1	20	1000	360		20	Existing Recept	14				
	15	Existing Receptacle	20		360	540	20	Existing Floorbox. Recepts	16				
	17	Existing Floorbox	20				540	360	Existing Receptacle	18			
	19	Existing Receptacles	20	180	720		20	Existing Floorbox. Recepts	20				
	21	Existing Receptacles	20			180	1176	EP-22	22				
	23	Hand Dryer PRIVATE TOILET ROOM 11R1	20				1100	720	RECEPTION DESK FOYER/ WAITING 119	24			
	25	Existing Motorized Blinds	20	500	360		20	Existing Receptacle	26				
	27	Existing Motorized Blinds	20		500	0	20	Spare	28				
	29	Coffee Maker; KITCHENETTE 119A	20				180	720	Receptacle Room 118, 119	30			
	31	Equipment	20	2200	1100		20	Spare	32				
	33	Spare	20		0	0	20	Spare	34				
	35	Spare	20				0	360	TV FOYER/ WAITING 119	36			
	37	Receptacle CORRIDOR 1HW3	20	720	1100		20	FCU; CORRIDOR 1HW2	38				
--	39	Space	--	--	0	0	--	Space	40	--			
--	41	Space	--	--		0	0	--	Space	42	--		

Panel Information			Symbols			Load Classification		Total Connected Load
Volts:	208/120 Wye			Note: All Symbols May Not Be Used		Equipment	10376 VA	
Mounting:	Flush		*	PROVIDE LOCK ON ATTACHMENT		Kitchen Equipment	0 VA	
A.I.C. (RMS Symmetrical):	22,000		#	PROVIDE SWD RATED BREAKER		Lighting	0 VA	
Phase:	3		@	PROVIDE AFCI TYPE BREAKER		Receptacle	11760 VA	
Wire:	4		+	PROVIDE GFCI TYPE BREAKER				
Hertz:	60							
			PHASE A CONNECTED LOAD:			11460 VA		
			PHASE B CONNECTED LOAD:			4756 VA		
			PHASE C CONNECTED LOAD:			5920 VA	NOTE: EXISTING RELOCATED RECEPTACLE PANEL. NO CONNECTED LOAD IS BEING ADDED TO THIS PANEL.	
			TOTAL CONNECTED LOAD:			22136 VA		
			TOTAL ESTIMATED DEMAND LOAD:			21256 VA		
			TOTAL ESTIMATED DEMAND AMPS:			59.0 A		

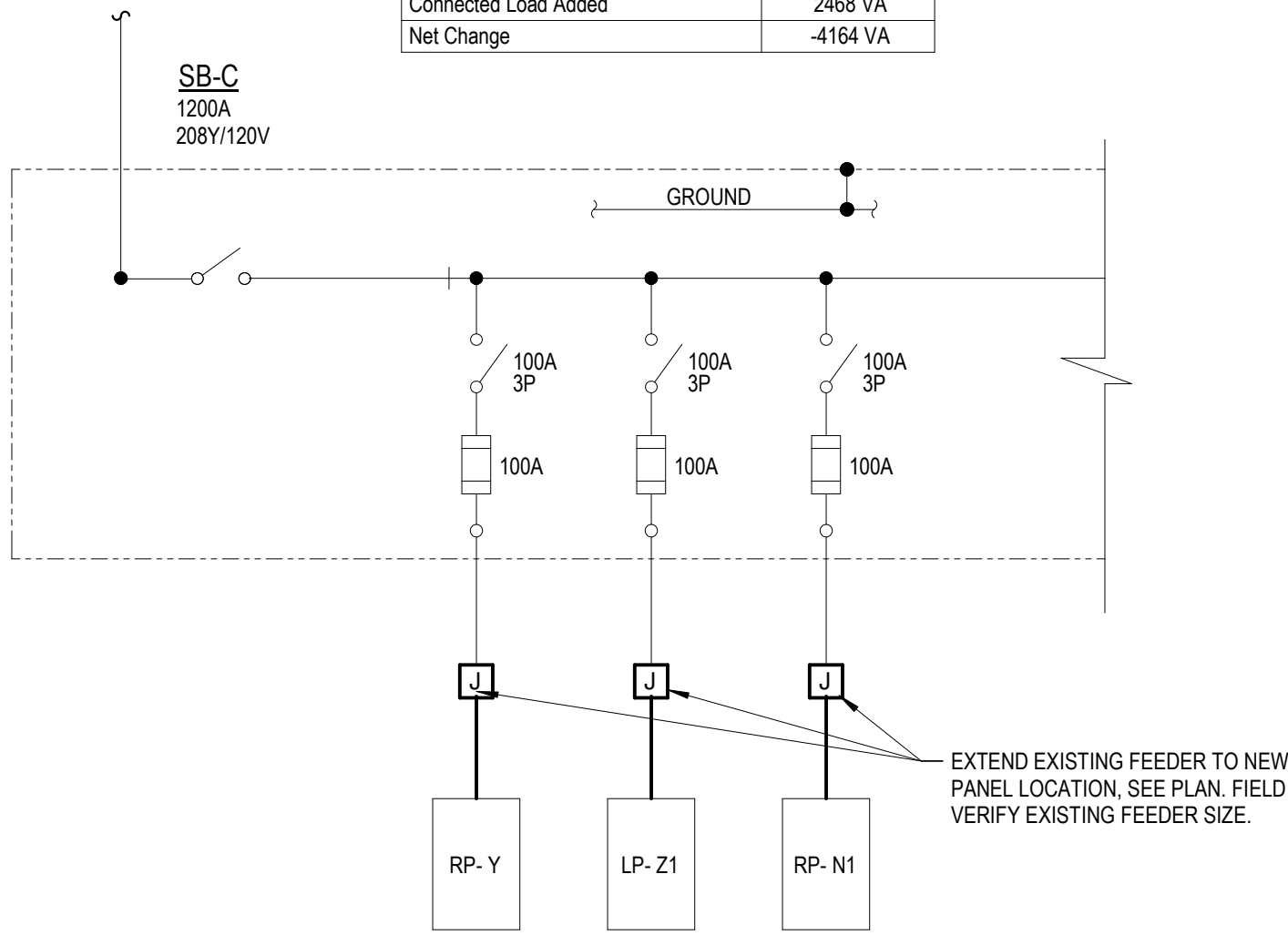
PANELBOARD SCHEDULE												RP-N1	
100 AMPS MLO													
S.	CKT.	LOAD	CB	A	B	C	CB	LOAD	CKT.	S.			
	1	tv; BOARD ROOM 118	20	500	540		20	Existing Recept 130, 136, 137	2				
	3	Existing Recept 131	20		180	1000	20	AV RACK BOARD ROOM 118	4				
	5	Existing PT	20				360	500	20	tv; BOARD ROOM 118	6		
	7	Spare	20	0	360			Existing PT Open Office	8				
	9	Existing PT Open Office	20		360	360		Existing PT Open Office	10				
	11	Existing PT Open Office	20			360	360	Existing PT Open Office	12				
	13	Existing PT Open Office	20	360	360		20	Existing PT Open Office	14				
	15	Existing PT Open Office	20		360	360	20	Existing PT Open Office	16				
	17	Conference Table; BOARD ROOM 118	20				720	360	20	Existing Recept; Conf Room 106	18		
	19	Spare	20	0	500		20	tv; BOARD ROOM 118	20				
	21	PT; KITCHENETTE 119A	20		360	50	20	Equipment; Crestron LCP	22				
--	23	Space	--	--		0	0	--	Space	24	--		
--	25	Space	--	0	0		--	Space	26	--			
--	27	Space	--		0	0	--	Space	28	--			
--	29	Space	--	--		0	0	--	Space	30	--		

Panel Information			Symbols			Load Classification		Total Connected Load
Volts:	208/120 Wye			Note: All Symbols May Not Be Used		Equipment	1050 VA	
Mounting:	Flush		*	PROVIDE LOCK ON ATTACHMENT		Kitchen Equipment	0 VA	
A.I.C. (RMS Symmetrical):	22,000		#	PROVIDE SWD RATED BREAKER		Lighting	0 VA	
Phase:	3		@	PROVIDE AFCI TYPE BREAKER		Receptacle	3300 VA	
Wire:	4		+	PROVIDE GFCI TYPE BREAKER				
Hertz:	60							
			PHASE A CONNECTED LOAD:			2620 VA		
			PHASE B CONNECTED LOAD:			3030 VA		
			PHASE C CONNECTED LOAD:			2660 VA	NOTE: EXISTING RELOCATED RECEPTACLE PANEL. NO CONNECTED LOAD IS BEING ADDED TO THIS PANEL.	
			TOTAL CONNECTED LOAD:			8310 VA		
			TOTAL ESTIMATED DEMAND LOAD:			8310 VA		
			TOTAL ESTIMATED DEMAND AMPS:			23.1 A		

PANELBOARD SCHEDULE												LP-Z1	
100 AMPS MLO													
S.	CKT.	LOAD	CB	A	B	C	CB	LOAD	CKT.	S.			
1	Ltg; Existing Room A130	20	800	732			20	Lighting; Board Room	2				
3	Ltg; Existing Exit Signs	20			150	600		Ltg; Existing NL	4				
5	Lighting Room Kitchenette 119A	20					253	600	Ltg; Existing Room A137, 138	6			
7	Ltg; Existing Room A137	20	1248	1120				Ltg; Existing Room A136	8				
9	Ltg; Existing Room A136	20			800	1120		Ltg; Existing Room A130	10				
11	Ltg; Existing Room A130, 131	20					1056	920	Ltg; Existing Room A131	12			
13	Ltg;11R1,11R2,11R3,11WR1,11MR1	20	512	641				Lighting CORRIDOR	14				
15	Ltg; Existing Corr 127	20			640	604		Lighting FOYER WAITING 119	16				
17	Ltg; Existing Ltg	20					500	500	Ltg; Existing Room A06 Conference	18			
19	Ltg; Existing Ltg	20	500	500				Ltg; Existing Ltg	20				
21	Ltg; Existing Ltg	20			500	500		Ltg; Existing Ltg	22				
23	Space	--	--	--	--	--	0	0	Space	24	--		
25	Space	--	--	0	0		--	Space	26	--			
27	Space	--	--		0	0	--	Space	28	--			
29	Space	--	--	--	--		0	0	Space	30	--		

Panel Information			Symbols			Load Classification		Total Connected Load
Volts:	208/120 Wye			Note: All Symbols May Not Be Used		Equipment	0 VA	
Mounting:	Flush		*	PROVIDE LOCK ON ATTACHMENT		Kitchen Equipment	0 VA	
A.I.C. (RMS Symmetrical):	22,000		#	PROVIDE SWD RATED BREAKER		Lighting	2742 VA	
Phase:	3		@	PROVIDE AFCI TYPE BREAKER		Receptacle	0 VA	
Wire:	4		+	PROVIDE GFCI TYPE BREAKER				
Hertz:	60							
			PHASE A CONNECTED LOAD:			6053 VA		
			PHASE B CONNECTED LOAD:			4914 VA		
			PHASE C CONNECTED LOAD:			3829 VA	NOTE: EXISTING RELOCATED LIGHTING PANEL. NO CONNECTED LOAD IS BEING ADDED TO THIS PANEL. EXISTING CONNECTED LOAD IS BEING REDUCED.	
			TOTAL CONNECTED LOAD:			14796 VA		
			TOTAL ESTIMATED DEMAND LOAD:			14796 VA		
			TOTAL ESTIMATED DEMAND AMPS:			41.1 A		

LOAD SUMMARY SB-C	
Description	Connected Load
Connected Load Removed	-6632 VA
Connected Load Added	2468 VA
Net Change	-4164 VA



PARTIAL ONE LINE DIAGRAM

Not To Scale

Project Title



Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48767

Key Plan

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Project Designer
Designer
Project Architect / Engineer
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Author
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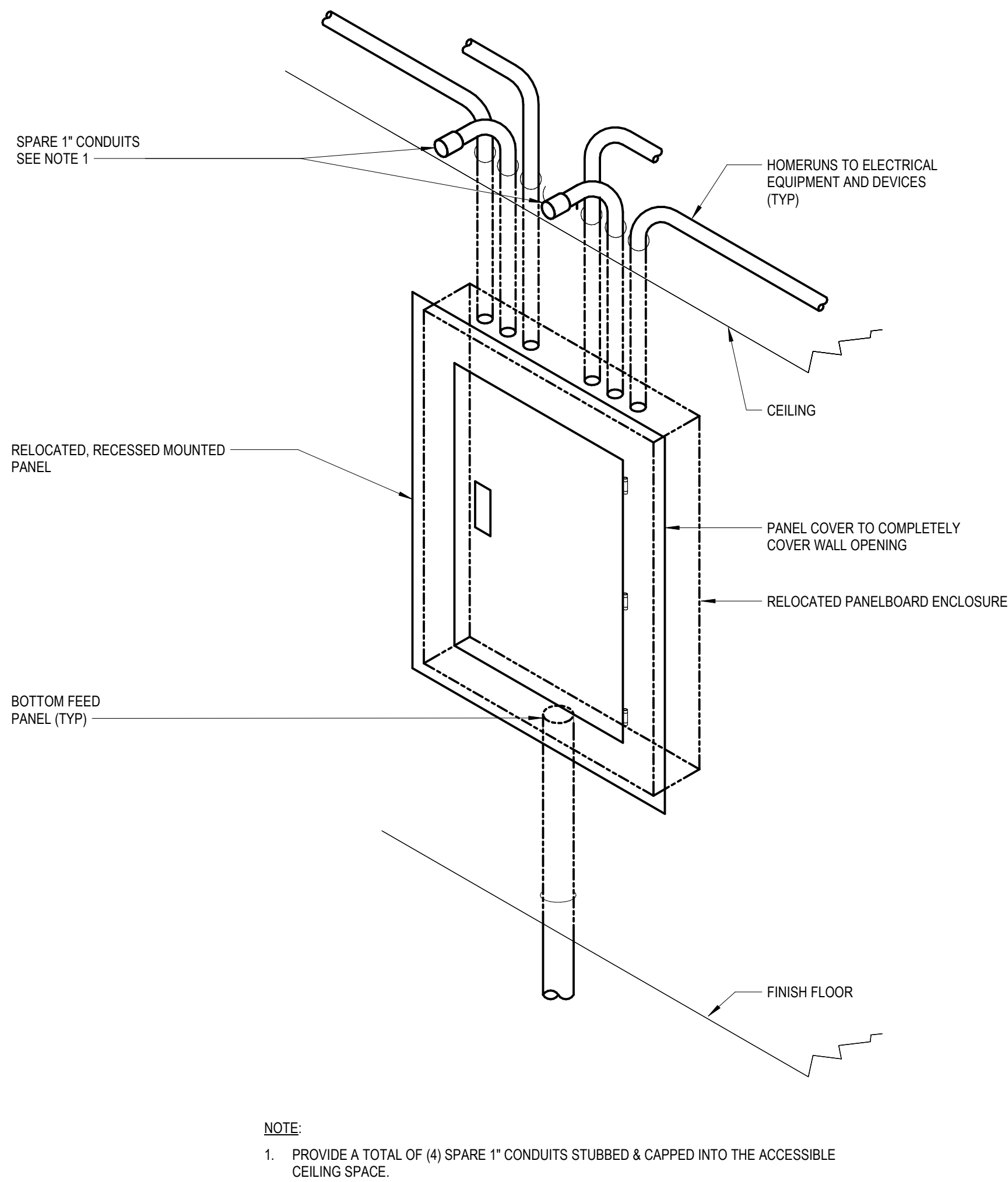
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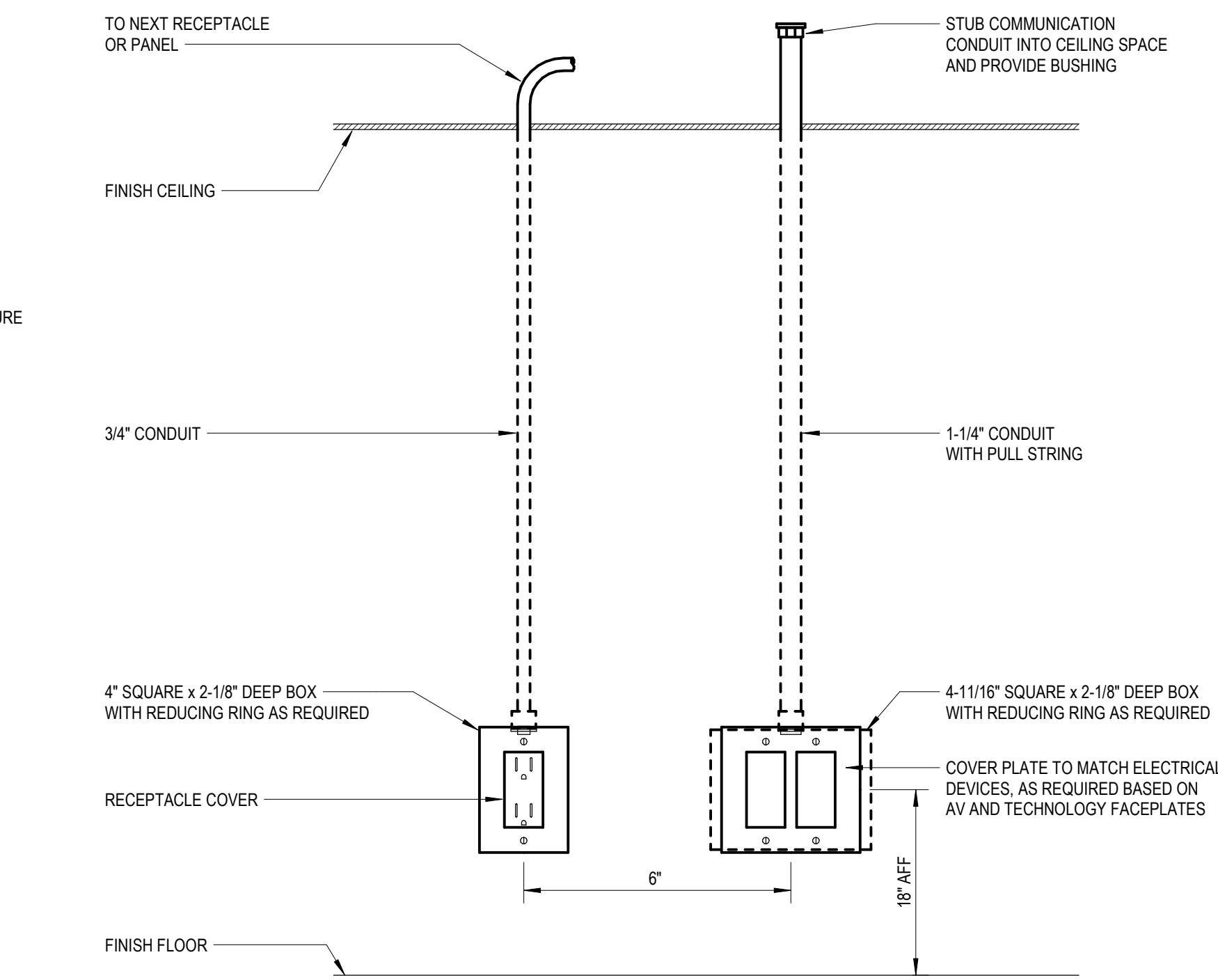
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20120-1000
E7.1



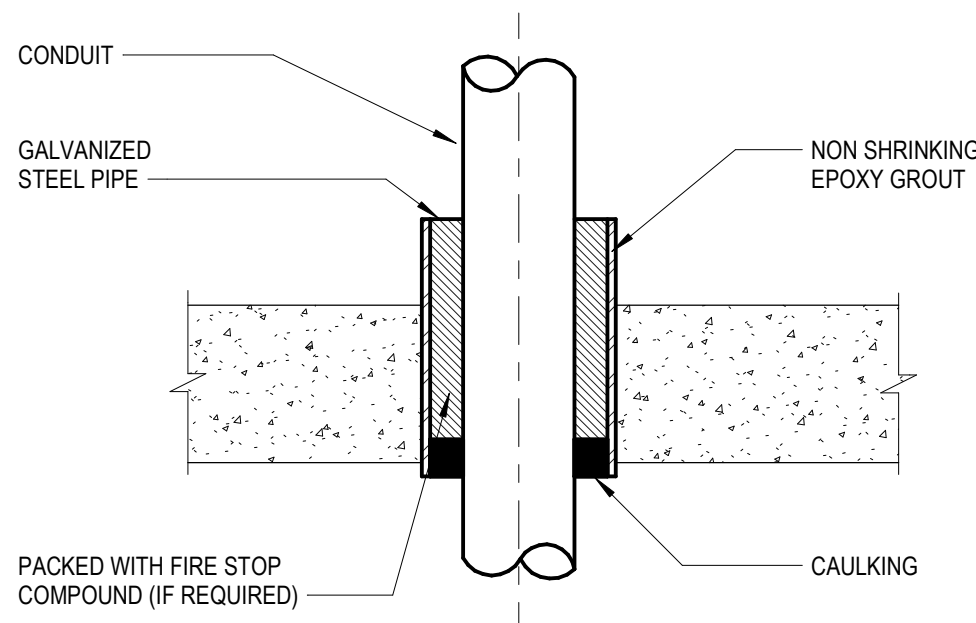
6 RECESSED PANELBOARD DETAIL

Not To Scale



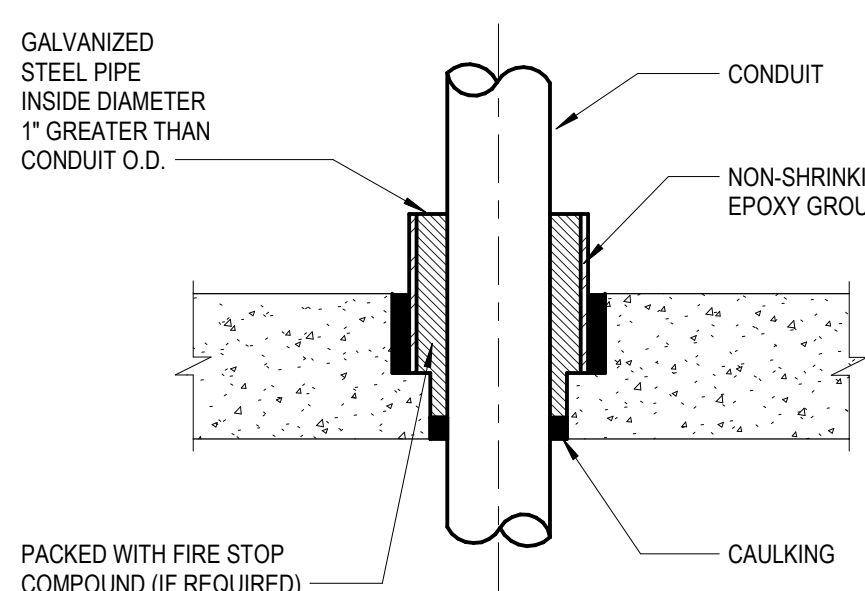
5 TYPICAL WALL MOUNTED POWER AND COMMUNICATION OUTLET DETAIL

Not To Scale



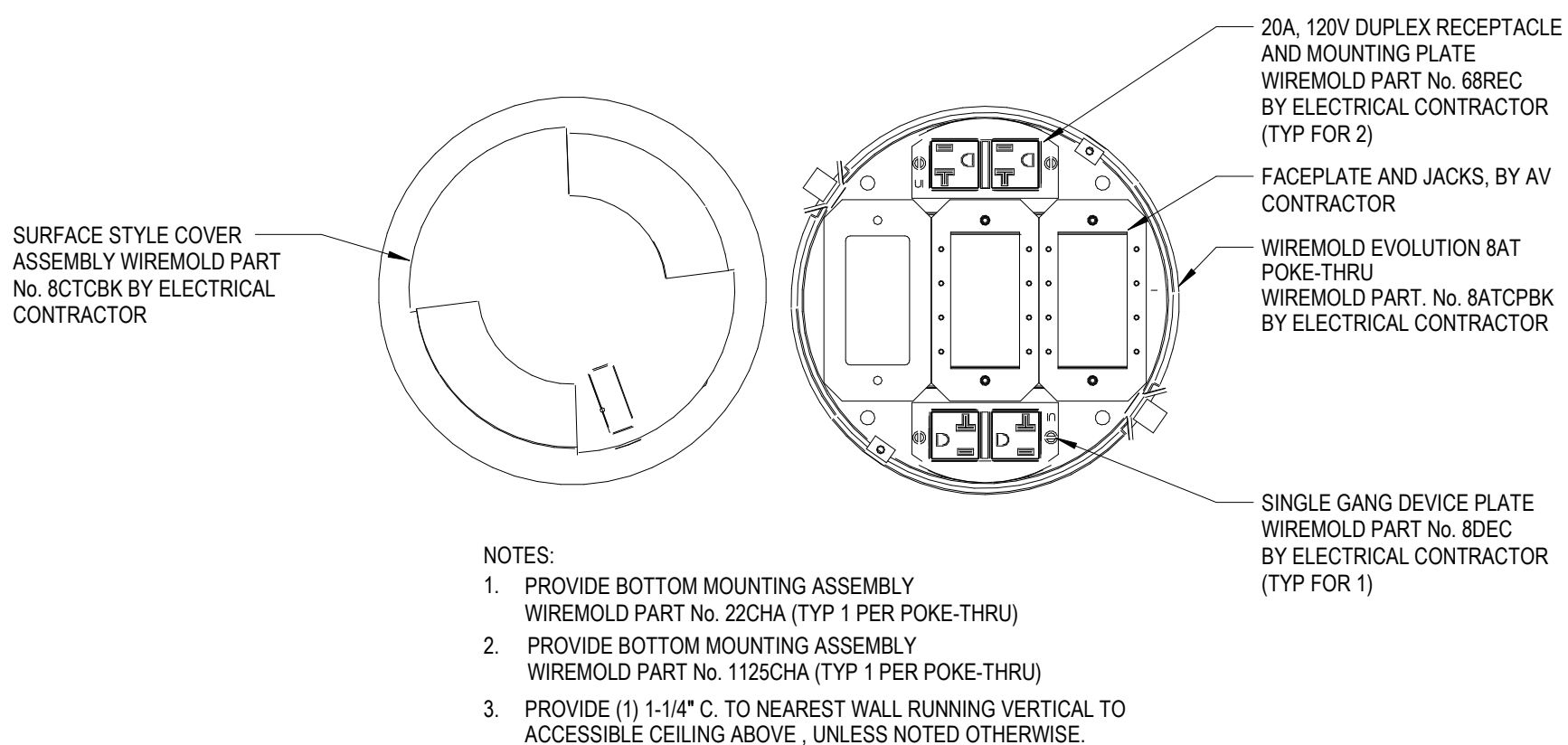
2 CONDUIT PENETRATION THRU NEW FLOOR OR WALL

Not To Scale



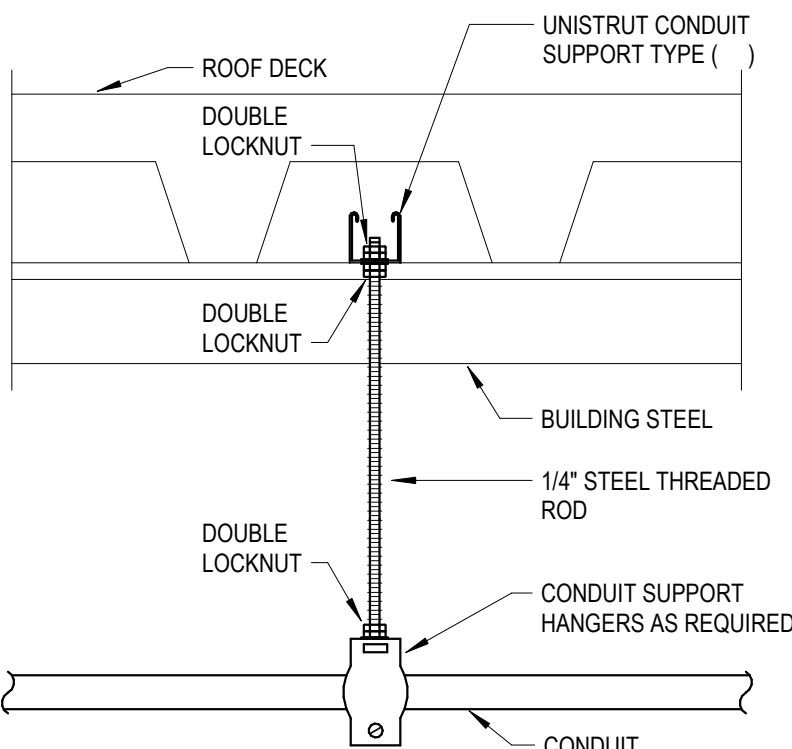
1 CONDUIT PENETRATION THRU EXISTING FLOOR OR WALL

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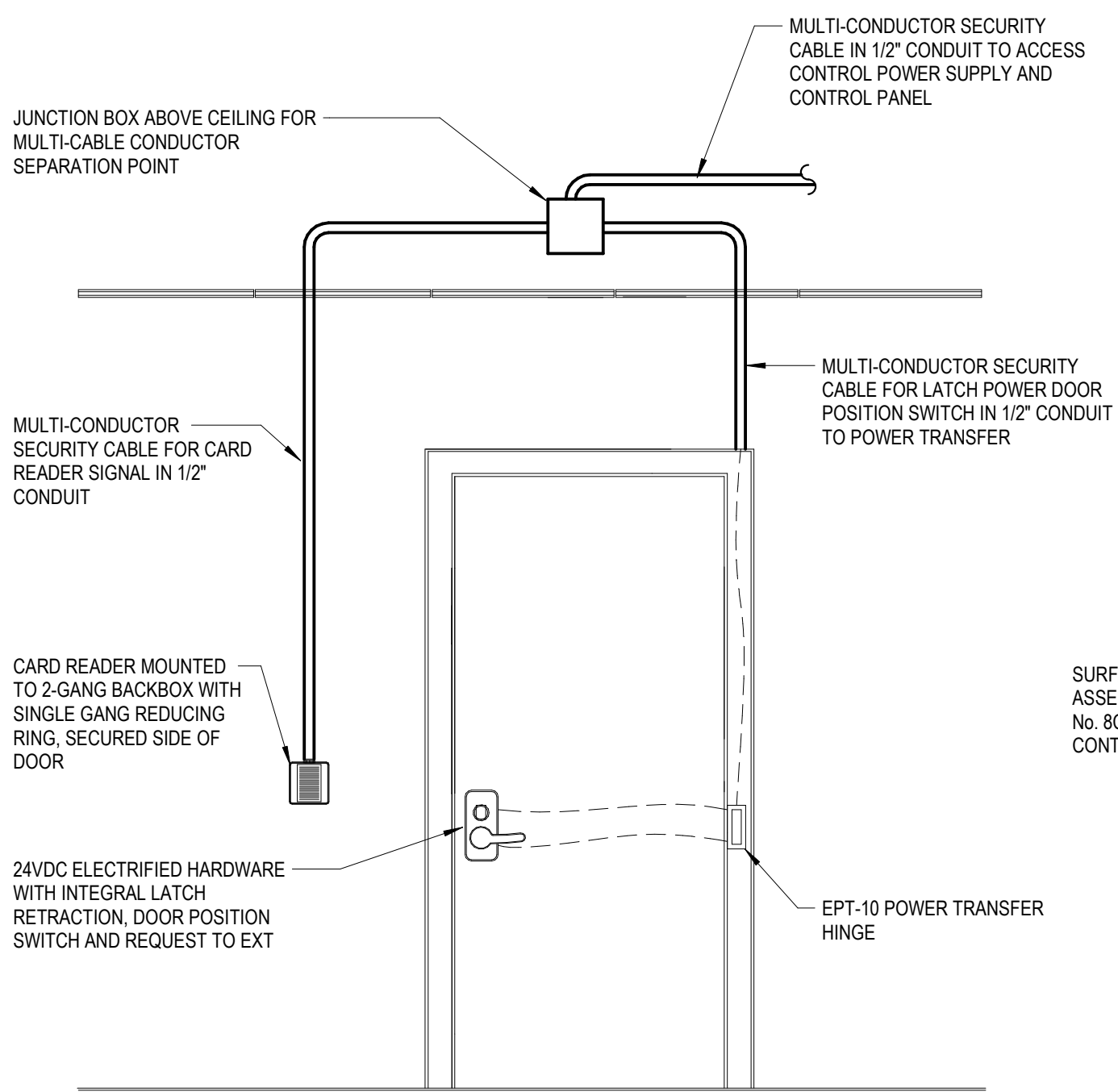
7 POKE-THRU DETAIL

Not To Scale



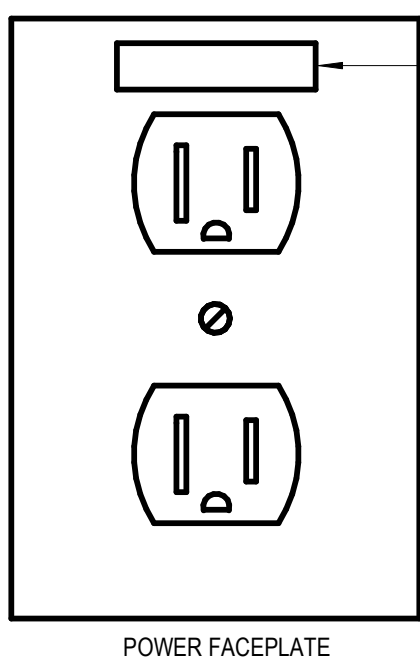
3 DETAIL TYPICAL CONDUIT HANGER DETAIL CONDUITS UP TO 2\"/>

Not To Scale



8 ACCESS CONTROLS DETAIL

Not To Scale



4 TYPICAL FACEPLATE - LABELING DETAIL

Not To Scale

1.	RENOVATED AREA LIGHTING CONTROLS SYSTEMS CONSIST OF LOCALLY NETWORKED DIGITAL LOW VOLTAGE LIGHTING CONTROLS.	6.	ALL EMERGENCY LIGHTING WITHIN A SPACE SHALL BE CONTROLLED IN TANDEM WITH NORMAL LIGHTING IN THE SAME SPACE. UPON LOSS OF NORMAL POWER, ALL EMERGENCY LIGHTING SHALL COME TO FULL BRIGHTNESS. EMERGENCY CONTROL DEVICES SHALL BE UL924 LISTED.
2.	THE LOCALLY NETWORKED DISTRIBUTED LIGHTING CONTROL SYSTEM SHALL BE PROVIDED WITH DUK, TECHNOLOGY OCCUPANCY SENSORS, LOW VOLTAGE PHOTOSENSORS, DIMMERS, AND SWITCHING RELAYS. DEVICES ARE CONNECTED BY GREEN CABLES CARRYING A COMPLETE, FULLY PROGRAMMABLE SYSTEM. ACTUITY BRANDS /LIGHT OR SPECIFIED EQUAL.	7.	ALL LIGHTING FIXTURES PROVIDED WITH POWER SUPPLIES, DRIVER OR BALLASTS, WITH DIMMING CAPACITIES, SHALL BE WIRED WITH AND CONNECTED TO DIMMING CAPABLE POWER PACKS, ETC.
3.	ALL LIGHTING CONTROL SYSTEM POWER PACKS, ROOM CONTROLLERS, ETC SHALL BE LOCATED IN AN ACCESSIBLE SPACE, WHERE POSSIBLE, LOCATE WITHIN CEILING SPACE ABOVE AREA SERVED. REFER TO REFLECTED CEILING PLAN FOR ACCESS PANEL LOCATIONS.	8.	ALL OCCUPANCY SENSORS SHALL BE PROVIDED WITH AN ISOLATED RELAY FOR USE BY MECHANICAL CONTROLS CONTRACTOR.
4.	THE LIGHTING CONTROLS SYSTEM SHALL BE FINAL, PROGRAMMED WITH THE ASSISTANCE OF THE SPECIFICATIONS REPRESENTATIVE. THE BASIC CONTROLS SETUP AND INITIAL SEQUENCE OF OPERATIONS SHALL AS BE INDICATED WITHIN THE SPECIFICATION AND AS NOTED ON DRAWINGS.	9.	ALL LOW VOLTAGE LIGHTING CONTROLS CABLES SHALL BE IN CONDUIT IN EXPOSED CONSTRUCTION AREAS, IN WALLS AND ABOVE INACCESSIBLE CEILINGS. ABOVE ACCESSIBLE CEILINGS, UTILITY HOOKS, BRIDAL RINGS AND CABLE TRAY TO SUPPORTS AND RIGGING CABLES, ALL PENETRATIONS THROUGH WALL CONSTRUCTION SHALL BE THROUGH CONDUIT SLEEVES.
5.	OCCUPANCY SENSORS SHALL BE PROVIDED FOR 100% FULL COVERAGE OF SPACES SHOWN WITH OCCUPANCY SENSORS. QUANTITIES SHOWN ON PLAN ARE FOR REFERENCE ONLY. FINAL LOCATIONS (ADHERING TO PLACEMENT GUIDELINES) AND QUANTITIES TO BE DETERMINED BY PRODUCT MANUFACTURER AND/OR VENDOR.	10.	ALL AUTOMATIC DIMMING TRANSITIONS SHALL OCCUR OVER A 3 SECOND FADE UP OR DOWN.
		11.	RISE DRAWINGS ARE FOR REFERENCE ONLY AND ARE INCLUDED TO CONVEY DESIGN INTENT ONLY. NOT ALL PARTS AND PIECES ARE SHOWN. ACTUAL RISERS, COMPONENTS



SEQUENCE OF OPERATIONS:

1. MULTI-ZONE CONTINUOUS DIMMING TO 1% OR 10 % PER FIXTURE SCHEDULE.
2. OCCUPANCY SENSOR IN VACUANCY MODE, MANUAL ON/AUTO OFF FOR ALL ZONES 15 MINUTES AFTER NO MOTION DETECTED.
3. PRIMARY AND SECONDARY DAYLIGHT HARVESTING ZONES TO AUTOMATICALLY MAINTAIN 5FC AT TASK HEIGHT. DAYLIGHT HARVESTING SHALL ONLY BE APPLIED TO C21 FIXTURES.
4. C21 - GENERAL DOWNLIGHT LIGHTING
5. C22 - WALL SCONCES
6. C23 - DECORATIVE PENDANT
7. C24 - COVE LIGHTING
8. C25 - LOBBY WALL WASH
9. C26 - CORRIDOR WALL WASH



SEQUENCE OF OPERATIONS:

1. MULTI-ZONE CONTINUOUS DIMMING TO 1% OR 10 % PER FIXTURE SCHEDULE.
2. OCCUPANCY SENSOR IN VACANCY MODE. MANUAL ON/AUTO OFF FOR ALL ZONES 15 MINUTES AFTER NO MOTION DETECTED.
3. PRIMARY AND SECONDARY DAYLIGHT HARVESTING ZONES TO AUTOMATICALLY MAINTAIN 50FC AT TASK HEIGHT. DAYLIGHT HARVESTING SHALL ONLY BE APPLIED TO C21 FIXTURES.
4. C21x - GENERAL LIGHTING
C22 - DECORATIVE PENDANTS
C23 - UNDERCABINET LIGHTING

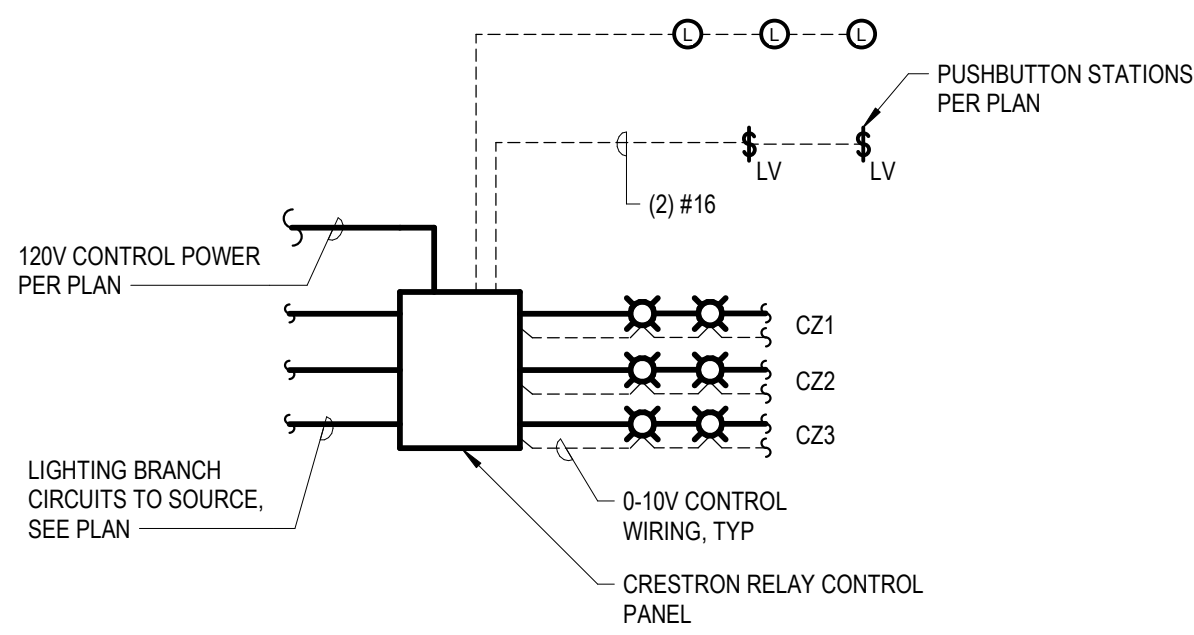
-----	LINE VOLTAGE EMERGENCY POWER SENSING CIRCUIT
_____	LINE VOLTAGE
-----	LOW VOLTAGE CABLING (PER MANUFACTURER)
	LOW VOLTAGE CONTROL STATION WITH SINGLE-ZONE DIMMING CONTROL
	GRAPHIC TOUCHSCREEN CONTROL PANEL
	LOW VOLTAGE PRESET STATION
	POWER PACK/POWER HANDLING EQUIPMENT(CONTACTOR WITH DIMMING FUNCTIONALITY, ETC).
	JUNCTION BOX
	LIGHT FIXTURE (NORMAL OR EMERGENCY, REFER TO PLANS)
	OCCUPANCY SENSOR



SEQUENCE OF OPERATIONS:

1. MULTI-ZONE CONTINUOUS DIMMING TO 1% OR 10 % PER FIXTURE SCHEDULE
2. OCCUPANCY SENSOR IN VACANCY MODE, MANUAL ON/AUTO OFF 15 MINUTE AFTER NO MOTION DETECTED.

ROOM		CONTROLS SYSTEM	CONTROLS SEQUENCE
NUMBER	NAME	TYPE	
1HW2	CORRIDOR	NON-NETWORKED	A
1HW3	CORRIDOR	NON-NETWORKED	C
1W1	MEETING ROOM	NON-NETWORKED	A
1TR1	PRIVATE TOILET ROOM	LINE VOLTAGE	N/A
1TR2	TOILET ROOM	LINE VOLTAGE	N/A
1TR3	SHOWER TOILET ROOM	LINE VOLTAGE	N/A
1VB1	VESTRIBULE	NON-NETWORKED	A
1WR1	WORK ROOM	NON-NETWORKED	A
1B	BOARD ROOM	CRESTON	N/A
118A	CLOSET	LINE VOLTAGE	N/A
119	COFFEE/ HATINGS	NON-NETWORKED	C
119A	KITCHENETTE	NON-NETWORKED	B
119B	CLOSET	N/A	N/A

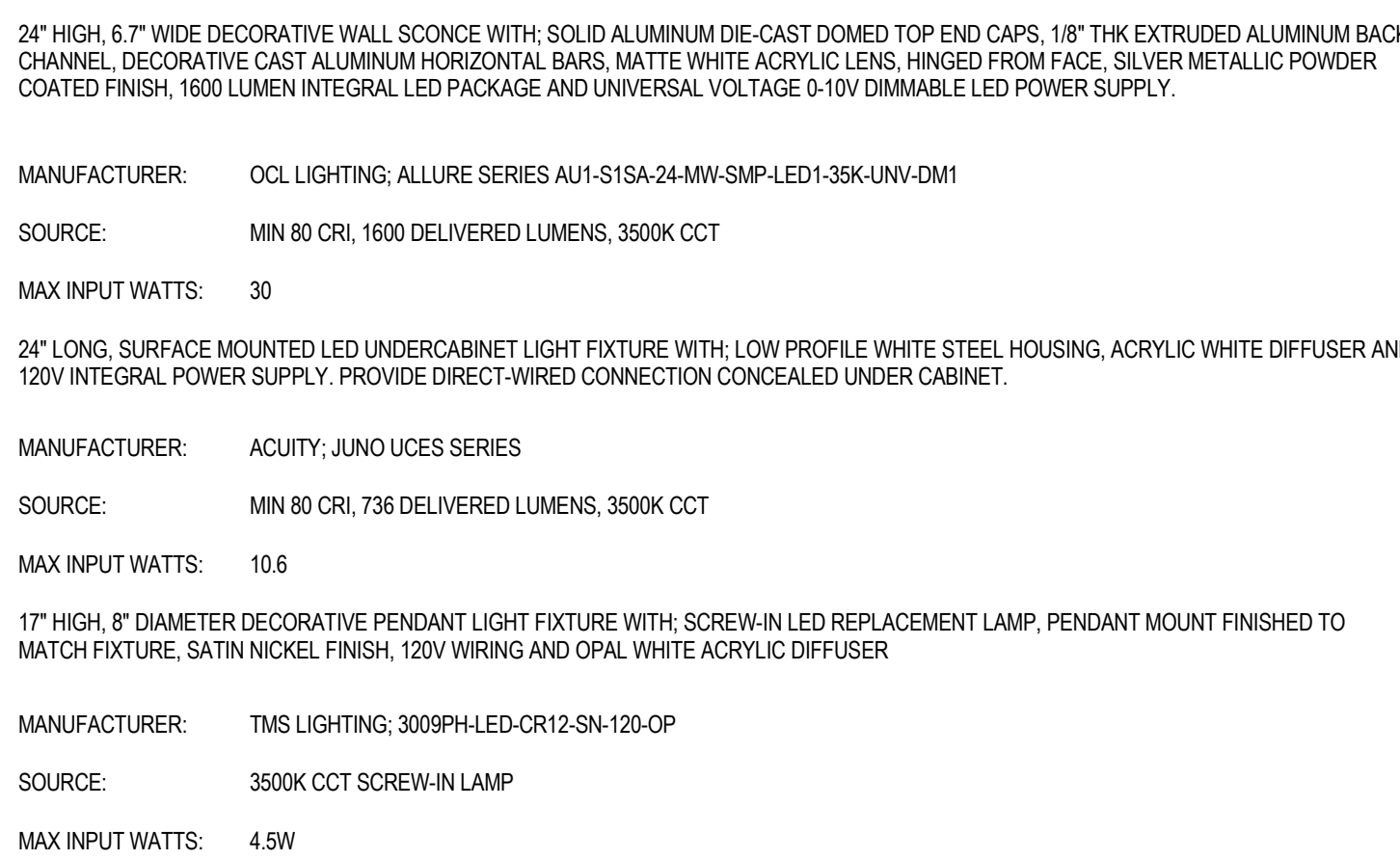


1. PROVIDE CRESTRON BASED DEDICATED LIGHTING CONTROLS SYSTEM WITH:
 - 3 ZONES OF 0-10V DIMMING
 - 7" COLOR GRAPHIC TOUCHSCREEN CAPABLE OF ACCESSING AND PROGRAMMING ALL SYSTEM FUNCTIONS.
 - AV SYSTEM INTEGRATION WITH CRESTON AV SYSTEM.
 - REMOTE PUSHBUTTON STATION

CONTACT DENNIS WALKER OF MLS-EAST: 734-732-2552

ZONE 1 - PERIMETER DOWNLIGHTS
ZONE 2 - GENERAL LINEAR LIGHTING
ZONE 3 - TV WALL LINEAR LIGHTING

	LINEAR ASYMMETRIC KNIFE-EDGE COVE LED LUMINAIRE WITH: NOMINAL 7" WIDE X 2.5" DEEP EXTRUDED ALUMINUM HOUSING, NOMINAL 6W/FT AND CUSTOM 650 LUMENS/FT LED PACKAGE, ASYMMETRIC DISTRIBUTION WITH ADJUSTABLE OPTICS AND DIFFUSE LENS, MUD-IN STYLE FLANGE, WHITE POWDER-COATED FINISH, INTEGRAL WIRING COMPARTMENT, UL LISTING AND FIELD REPLACEMENT INTEGRAL 0-10V DIMMABLE 120V POWER SUPPLY WITH THERMAL AND SURGE PROTECTION, FIXTURE SHALL BE PROVIDED WITH CONTINUOUS RUNS AND 90 DEGREE CORNERS FOR LAYOUT SHOWN ON PLAN DRAWINGS. HOUSING SHALL BE MANUFACTURED OR FIELD CUT/ADJUSTED TO MATCH ACTUAL FIELD DIMENSION OF COVE.		
	MANUFACTURERS:	LF ILLUMINATION, ENBK-C SERIES WITH EF600	
	LIGHT SOURCE:	650 DELIVERED LUMEN/FT, 80 CRI MIN, 3500K CCT	
	MAX INPUT WATTS: LOCATION:	432 TOTAL WATTS FOYER/HALLWAY COVE CEILING	
LB1A-X	X-0" LONG, 2" APERTURE, RECESSED LINEAR LED LUMINAIRE WITH: EXTRUDED ALUMINUM BODY, 650 NOMINAL LUMENS/FT DIRECT SYMMETRIC OPTIC, CONTINUOUS FLUSH FROST WHITE SNAP-IN DOWNLIGHT DIFFUSER, HIGH REFLECTANCE WHITE POWDER COATED STEEL REFLECTOR, WHITE POWDER COATED FINISH, INTEGRAL WIRING COMPARTMENT, UL LISTING AND FIELD REPLACEMENT INTEGRAL 0-10V DIMMABLE 120V POWER SUPPLY EXTERNAL TO DRIVER, INTEGRAL DRIVER SURGE PROTECTION, INTEGRAL DRIVER DISCONNECT, UL LISTING AND REPLACEABLE 120V 0-10V DIMMABLE (TO 1%) POWER SUPPLY. CONTINUOUS ROW MOUNTED FIXTURE SHALL BE PROVIDED WITH MAXIMUM LENGTH LENSES AND JOINED TOGETHER WITH AN INTEGRAL JONER SYSTEM AND WIRED TOGETHER WITH FACTORY INSTALLED WIRING HARNESSSES.		
	MANUFACTURER:	FINELITE: HP-2 R... CORONET LTG, LSR2 LED AXIS LIGHTING, BRLED LUX ILLUMINAIRE, EOS 2.0R SERIES	
	SOURCE:	MINIMUM 80 CRI, 650 LUMENS/FT MIN, 3500K CCT	
	MAX INPUT WATTS:	8 WATTS/FT MAX	
	LOCATION:	KITCHENETTE	
LB1Ae-X	SAME AS LB1A-X, EXCEPT: PROVIDE 24" SECTION WITH 1600 LUMEN EMERGENCY BATTERY PACK AS INDICATED ON PLAN.		
	MANUFACTURER:	FINELITE: HP-2 R... CORONET LTG, LSR2 LED AXIS LIGHTING, BRLED LUX ILLUMINAIRE, EOS 2.0R SERIES	
	SOURCE:	MINIMUM 80 CRI, 650 LUMENS/FT MIN, 3500K CCT	
	MAX INPUT WATTS:	8 WATTS/FT MAX	
	LOCATION:	KITCHENETTE	
LB1B-X	SAME AS LB1A, EXCEPT: 825 NOMINAL LUMENS/FT LUMEN PACKAGE		
	MANUFACTURER:	FINELITE: HP-2 R... CORONET LTG, LSR2 LED AXIS LIGHTING, BRLED LUX ILLUMINAIRE, EOS 2.0R SERIES	
	SOURCE:	MINIMUM 80 CRI, 825 NOMINAL LUMENS/FT LUMENS, 3500K CCT	
	MAX INPUT WATTS:	10 WATTS/FT MAX	
	LOCATION:	MEETING ROOM, WORK ROOM	
LB3-B	SAME AS LB1A, EXCEPT: 8'-0" LONG, TRIM FOR FLANGELESS MUD-IN INSTALLATION IN A DRYWALL CEILING AND WALL WASH ASYMMETRIC...		
	MANUFACTURER:	FINELITE: HP-2 R... CORONET LTG, LSR2 LED AXIS LIGHTING, BRLED LUX ILLUMINAIRE, EOS 2.0R SERIES	
	SOURCE:	MINIMUM 80 CRI, 650 LUMENS/FT MIN, 3500K CCT	
	MAX INPUT WATTS:	8 WATTS/FT MAX	
LB4-X	SAME AS LB1B, EXCEPT: TRIM FOR FLUSH INSTALLATION IN A WOOD CEILING.		
	MANUFACTURER:	FINELITE: HP-2 R... CORONET LTG, LSR2 LED AXIS LIGHTING, BRLED LUX ILLUMINAIRE, EOS 2.0R SERIES	
	SOURCE:	MINIMUM 80 CRI, 825 NOMINAL LUMENS/FT LUMENS, 3500K CCT	
	MAX INPUT WATTS:	10 WATTS/FT MAX	
LC	3'-0" LONG, 6" WIDE LINEAR WALL MOUNTED DECORATIVE LED LIGHT FIXTURE WITH: EXTRUDED ALUMINUM HOUSING, ROUNDED PROFILE ACRYLIC FROSTED LENS, SILVER METALLIC FINISH, DIE-CAST ALUMINUM END CAPS, INTEGRAL 120V 0-10V DIMMABLE (TO 10%) POWER SUPPLY AND UL LISTING.		
	MANUFACTURER:	OCL: HD1-S15A-24-MW-SMP-LED1-35K-UVN-DMM1	
	SOURCE:	MINIMUM 80 CRI, 2000 LUMEN, 3500K CCT	
	INPUT WATTS:	45 WATTS	
LD1	4" (NOMINAL) ROUND APERTURE, RECESSED ARCHITECTURAL LED DOWNLIGHT LUMINAIRE WITH: 6" MAXIMUM HOUSING DEPTH, MATTE WHITE REFLECTOR FINISH, 50 DEGREE WIDE DISTRIBUTION, REGRESSED DIFFUSE LENS, TRIM FOR MUD-IN FLANGELESS INSTALLATION, ACCOMMODATIONS FOR CEILING THICKNESS TO 1-1/2", LEDS AND POWER SUPPLY SERVICEABLE FROM BELOW, 0-10V DIMMABLE (TO 10%) ELECTRONIC POWER SUPPLY WIRED FOR DIMMING, OVERLOAD AND SHORT CIRCUIT PROTECTION, INTEGRAL DRIVER DISCONNECT, INTEGRAL FUSING EXTERNAL TO THE DRIVER, ENERGY STAR CERTIFIED, UL LISTING FOR DAMP LOCATIONS, 120 VOLT OPERATION.		
	MANUFACTURER:	USA1 LIGHTING, B4RD, SERIES	
	SOURCE:	MIN 80 CRI, 775 DELIVERED LUMENS, 3500K CCT	
	MAX INPUT WATTS:	9W	
LD1E	SAME AS LD1, EXCEPT: PROVIDE INTEGRAL EM BATTERY PACK WITH INTEGRAL TEST SWITCH PROVIDING 575 LUMENS FOR 90 MINUTES		
	MANUFACTURER:	USA1 LIGHTING, B4RD, SERIES	
	SOURCE:	MIN 80 CRI, 775 DELIVERED LUMENS, 3500K CCT	
	MAX INPUT WATTS:	9W	
LD2	SAME AS LD1, EXCEPT WHITE PAINTED FLANGE/TRIM FOR INSTALLATION IN A LAY-IN CEILING.		
	MANUFACTURER:	USA1 LIGHTING, B4RDF	
LD2E	SAME AS LD2, EXCEPT: PROVIDE INTEGRAL EM BATTERY PACK WITH INTEGRAL TEST SWITCH PROVIDING 575 LUMENS FOR 90 MINUTES		
	MANUFACTURER:	USA1 LIGHTING, B4RDF SERIES	
	SOURCE:	MIN 80 CRI, 775 DELIVERED LUMENS, 3500K CCT	
	MAX INPUT WATTS:	9W	
LD3	SAME AS LD1, EXCEPT BLACK PAINTED REFLECTOR AND TRIMLESS MILLWORK INSTALLATION HARWARE FOR INSTALLATION IN A WOOD CEILING		
	MANUFACTURER:	USA1 LIGHTING, B4RDM	
	SOURCE:	MIN 80 CRI, 775 DELIVERED LUMENS, 3500K CCT	
	MAX INPUT WATTS:	9W	
LD4	6" (NOMINAL) ROUND APERTURE, RECESSED LED DOWNLIGHT LUMINAIRE WITH: 1-1/2" MAXIMUM HOUSING DEPTH, DEAD FRONT SHOWER LIGHT BODY AND TRIM, FLUSH ACRYLIC FROSTED LENS, LEDS AND POWER SUPPLY SERVICEABLE FROM BELOW, 0-10V DIMMABLE (TO 10%) ELECTRONIC POWER SUPPLY WIRED FOR DIMMING, OVERLOAD AND SHORT CIRCUIT PROTECTION, INTEGRAL DRIVER DISCONNECT, INTEGRAL FUSING EXTERNAL TO THE DRIVER, ENERGY STAR CERTIFIED, UL LISTING, IP65 RATING, 120 VOLT OPERATION.		
	MANUFACTURER:	SPECTRUM LIGHTING: SGOFL6EDFA SERIES VANTAGE LED, 40V-LED COOPER, HALO P06 SERIES HE WILLIAMS, 60R-IP SERIES	
	SOURCE:	MIN 80 CRI, 1500 DELIVERED LUMENS, 3500K CCT	
	MAX INPUT WATTS:	21	
LE	33" DIAMETER DECORATIVE BOWL PEND		



Project Title



1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan

[illegible]

Lighting Fixture Schedule & Lighting Controls Risers

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MI	MN	MO	MP	MQ	MR	MS	MT	MTG	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PIR	POS	PROJ	PT	PTZ	PVC	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RO	RP	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SW	TA	TB	TC	TD	TE	TF	TG	TH	TI	TIR	TTB	TTX	TVSS	TX	TY	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	XG	XH	XI	XJ	XK	XL	XM	XN	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	XZ	YA	YB	YC	YD	YE	YF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS
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TR.0	Technology Reference Information
T3.1	Partial First Floor Technology Systems Plan
T5.1	Technology Resers
T5.2	Technology Details



INTEGRATED design SOLUTIONS
 architecture engineering interiors & technology
 1411 west long lake, suite 200
 troy, michigan 48068
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 grand rapids, michigan 49546
 248.823.2100
www.ids-michigan.com

DETAIL SYMBOL

DETAIL IDENTIFICATION

2
Tb.1

DETAIL SCALE

DRAWING WHERE DETAIL IS REFERENCED OR CUT

PLAN OR DETAIL ENLARGEMENT

PLAN OR DETAIL IDENTIFICATION

2
Tb.1

DRAWING WHERE PLAN OR DETAILS IS DRAWN

SECTION LOCATOR

SECTION IDENTIFICATION

2
Tb.1

DRAWING WHERE PLAN OR DETAIL IS DRAWN

ELEVATION SYMBOL

ELEVATION NUMBER

4
Tb.1

1

2

DRAWING WHERE ELEVATION IS DRAWN

COLUMN CENTERLINE

1

EXISTING

1

NEW

ROOM NAME AND NUMBER

ROOM NAME

A101

ROOM
FLOOR
BUILDING OR UNIT (IF ANY)

<p>CLOCKS</p> <p>7'-8" AFF</p> <p>SPEAKERS</p> <p>TO BOTTOM</p>	<p>VOLUME CONTROL</p> <p>4'-10" AFF</p> <p>CARD ACCESS SYSTEM</p> <p>8"</p> <p>CARD READER</p> <p>4"</p> <p>KEY SWITCH</p> <p>4"</p> <p>INTERCOM</p> <p>4"</p> <p>CALL BUTTON</p> <p>4"</p>	<p>QUAD RECEPTACLE OUTLET FOR TV MONITOR</p> <p>7'-8" AFF</p> <p>TELEVISION OUTLET</p> <p>7'-8" AFF</p> <p>TV MONITOR</p> <p>7'-8" AFF</p> <p>- WALL MOUNTED</p>	<p>RECEPTACLE OUTLET</p> <p>1'-6" AFF</p> <p>COMMUNICATIONS OUTLET</p> <p>1'-6" AFF</p> <p>MICROPHONE OUTLET</p> <p>1'-6" AFF</p>
<p>COMMUNICATIONS OUTLET MOUNTED ABOVE COUNTER</p> <p>38" AFF</p> <p>DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER</p> <p>48" AFF</p>			
<p>COMMUNICATIONS OUTLET MOUNTED ABOVE COUNTER</p> <p>30" AFF</p> <p>DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER</p> <p>38" AFF</p>			

MOUNTING HEIGHT NOTES:

1. MOUNTING HEIGHTS ARE TYPICAL UNLESS OTHERWISE NOTED ON DRAWINGS.
2. FOR CEILING HEIGHTS BELOW 8'-4" REFER TO DRAWINGS FOR CLOCKS, SPEAKERS, EXIT LIGHTS AND EGRESS LIGHTS MOUNTING HEIGHTS.

[illegible]

1. LIGHT LINE WEIGHT INDICATES EXISTING EQUIPMENT TO REMAIN OR EQUIPMENT PROVIDED BY CONTRACTOR. HEAVY LINE WEIGHT INDICATES NEW EQUIPMENT.
2. NETWORK DEVICE PLATES AND THE CABLING FOR THESE AREAS SHALL BE PROVIDED BY THE TECHNOLOGY CONTRACTOR.
3. TECHNOLOGY CONTRACTOR SHALL COORDINATE DEVICE OUTLET LOCATIONS WITH THE ARCHITECTURAL AND CASEWORK DRAWINGS PRIOR TO ROUGH-IN. REPORT ANY CONFLICTS TO THE CONSTRUCTION MANAGER FOR RESOLUTION.
4. TECHNOLOGY CONTRACTOR SHALL COORDINATE CLOSET ROOM EQUIPMENT DEVICE LOCATIONS WITH THE GENERAL CONTRACTOR.
5. TECHNOLOGY CONTRACTOR SHALL NOT PLACE ANY DISTRIBUTION CABLING ALONGSIDE POWERLINES, OR SHARE THE SAME CONDUIT, CHANNEL OR SLEEVE WITH ELECTRICAL APPARATUS.
6. ALL CABLES SHALL BE INSTALLED IN "J" HOOKS, CONDUITS, CABLE TRAY OR AN APPROVED RACEWAY SYSTEM. WHERE CABLE TRAY IS NOT AVAILABLE, SUPPORT HORIZONTAL CABLE EVERY FIVE FEET WITH "J" HOOKS SUFFICIENT IN SIZE TO HANDLE ALL TRAYED CABLES WHILE MINIMIZING CRUSHING. IF CABLE SLACK EXCEEDS TWELVE (12) INCHES BETWEEN SUPPORTS, ADDITIONAL SUPPORTS SHALL BE INSTALLED TO TAKE UP SLACK AND RELIEVE CABLE STRESS. ALL CABLES SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING STEEL. ALL COMMUNICATION CABLES SHALL BE LOCATED AND FASTENED TO GUARANTEE THERE SHALL BE NO INTERFERENCE FROM MAGNETIC FIELDS GENERATED FROM FIXTURE BALLASTS, MOTORS OR SIMILAR ELECTRICAL LOADS.
7. INSTALL ALL CABLES MAINTAINING CABLE MANUFACTURERS RADIUS OF CURVATURE AND PROTECT AT BENDS AND CORNERS. MAINTAIN MINIMUM BEND RADIUS AND TENSION LIMITATIONS AS SPECIFIED BY IATIA FOR ALL COMMUNICATION CABLES.
8. LOOSELY BUNDLE CABLES WITH VELCRO TIES SUITABLE FOR PLENUM ENVIRONMENTS, EVERY TWENTY FEET.
9. THE TECHNOLOGY CONTRACTOR SHALL ASSURE THAT THE COMPLETION OF CABLE INSTALLATION, CABLES ARE FREE FROM TWISTS, KINKS, SHARP BENDS, CUTS, GOUGES OR ANY OTHER PHYSICAL DAMAGE.
10. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK. THE TECHNOLOGY CONTRACTOR SHALL PROVIDE ALL INCIDENTAL MATERIALS AND LABOR OR A COMPLETE, FULLY FUNCTIONAL SYSTEM AND VERIFYING FIELD PASSWAYS.
11. NOTIFY CM OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND TECHNOLOGY DRAWINGS.
12. ALL WORK AND EQUIPMENT SHALL CONFORM TO NEC, THE MEANS AND METHODS USED BY TECHNOLOGY CONTRACTOR SHALL CONFORM TO NEW SECTION 110-3 (A AND B).

Project Title



Frankenmuth[®]

INSURANCE

Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan

THIS PROJECT MAY NOT UTILIZE ALL THE SYMBOLS, MATERIALS, ABBREVIATIONS AND STANDARDS INFORMATION SHOWN ON THIS SHEET

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan

THIS PROJECT MAY NOT UTILIZE ALL THE SYMBOLS,
MATERIALS, ABBREVIATIONS AND STANDARDS INFORMATION
SHOWN ON THIS SHEET

Project Administrator	C. Azari
Project Designer	Designer
Project Architect / Engineer	N. Furgason
Drawn By	N. Furgason
Q.M. Review	T. Carron
Approved	T. Carron
Drawing Scale	As Noted
Issued for	Issue Date
Quality Management Review	04-21-2021
Bids	07-15-2021

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IDS Drawing Title

Technology Reference Information

GENERAL NOTES

1. REFER TO PROJECT ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS INCLUDING PATHWAYS AND INFRASTRUCTURE BEING PROVIDED FOR TECHNOLOGY CABLING. COORDINATE ADDITIONAL REQUIREMENTS WITH EC.

KEY NOTES

1. REINSTALL SALVAGED BUILDING SOUND SYSTEM MUSIC SPEAKER AT NEW LOCATION. MODIFY AND EXTEND EXISTING SPEAKER CABLING AS REQUIRED.
2. REINSTALL SALVAGED SOUND MASKING SYSTEM SPEAKER AT NEW LOCATION ABOVE ACCESSIBLE CEILING. MODIFY AND EXTEND EXISTING SPEAKER CABLING AS REQUIRED.



Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan

Project Administrator	C. Azar
Project Designer	S. Robinson
Project Architect / Engineer	N. Furgason
Drawn By	N. Furgason
Q.M. Review	T. Carron
Approved	T. Carron
Drawing Scale	As Noted

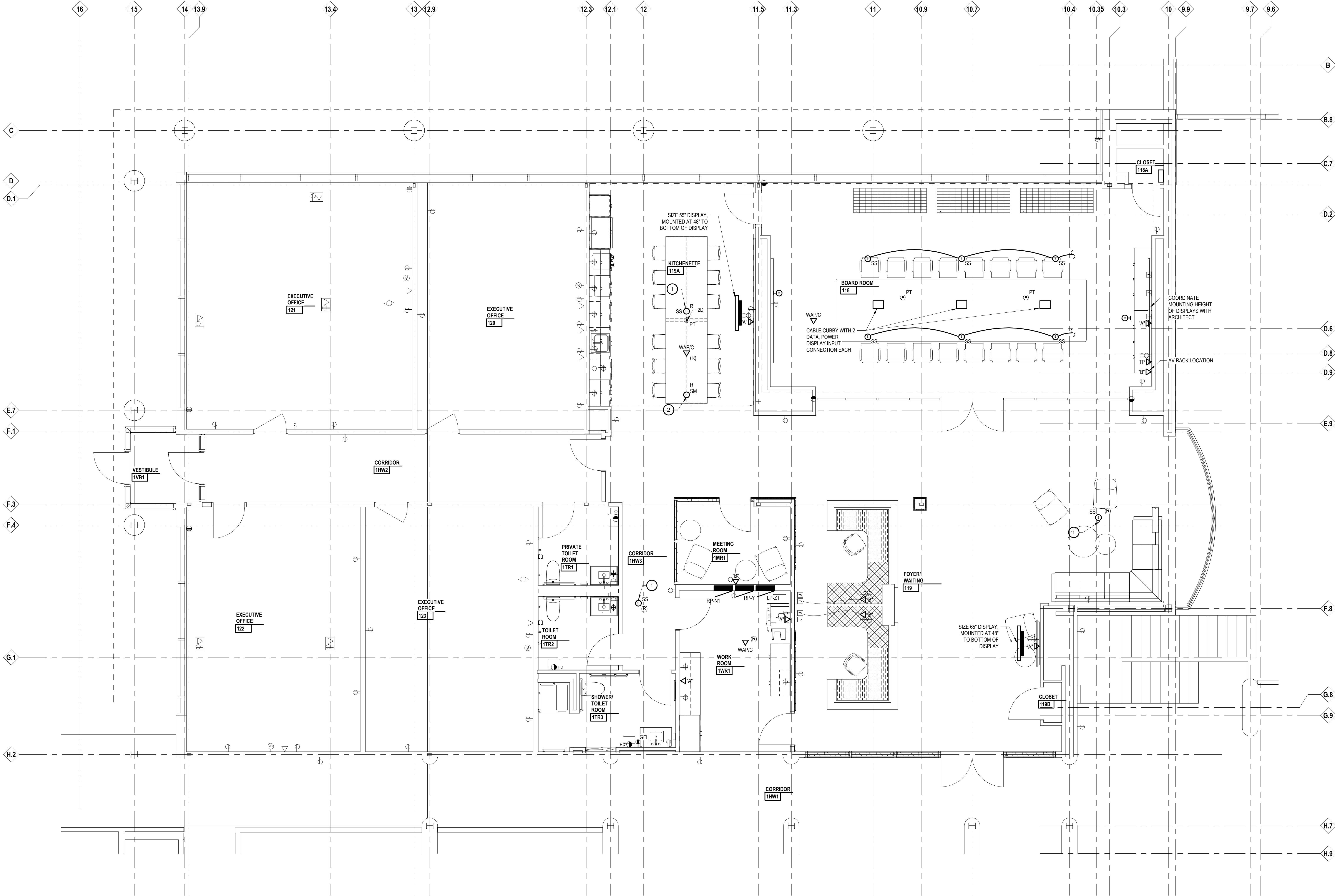
Issued for	Issue Date
Quality Management Review	04-21-2021
Bids	07-15-2021

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IDS Drawing Title

Partial First Floor Technology Systems Plan

103 Project Number Drawing Number

20120-1000 T3.1





	Project Administrator C. Azari
	Project Designer N. Furgason
	Project Architect / Engineer N. Furgason
	Drawn By N. Furgason
	Q.M. Reviewer T. Carron
	Approved T. Carron
	Drawing Scale As Noted
Issued for	Issue Date
Design Development	02-26-2021
Quality Management Review	04-21-2021
Bids	07-15-2021

Project Title



Executive Suite Renovation

1 Mutual Avenue
Frankenmuth, MI 48787

Key Plan

Project Administrator
C. Azar
Project Designer
Designer
Project Architect / Engineer
N. Furgason
Drawn By
Author
Q.M. Review
T. Carron
Approved
T. Carron
Drawing Scale
As Noted

Issued for
Bids
Issue Date
07-15-2021

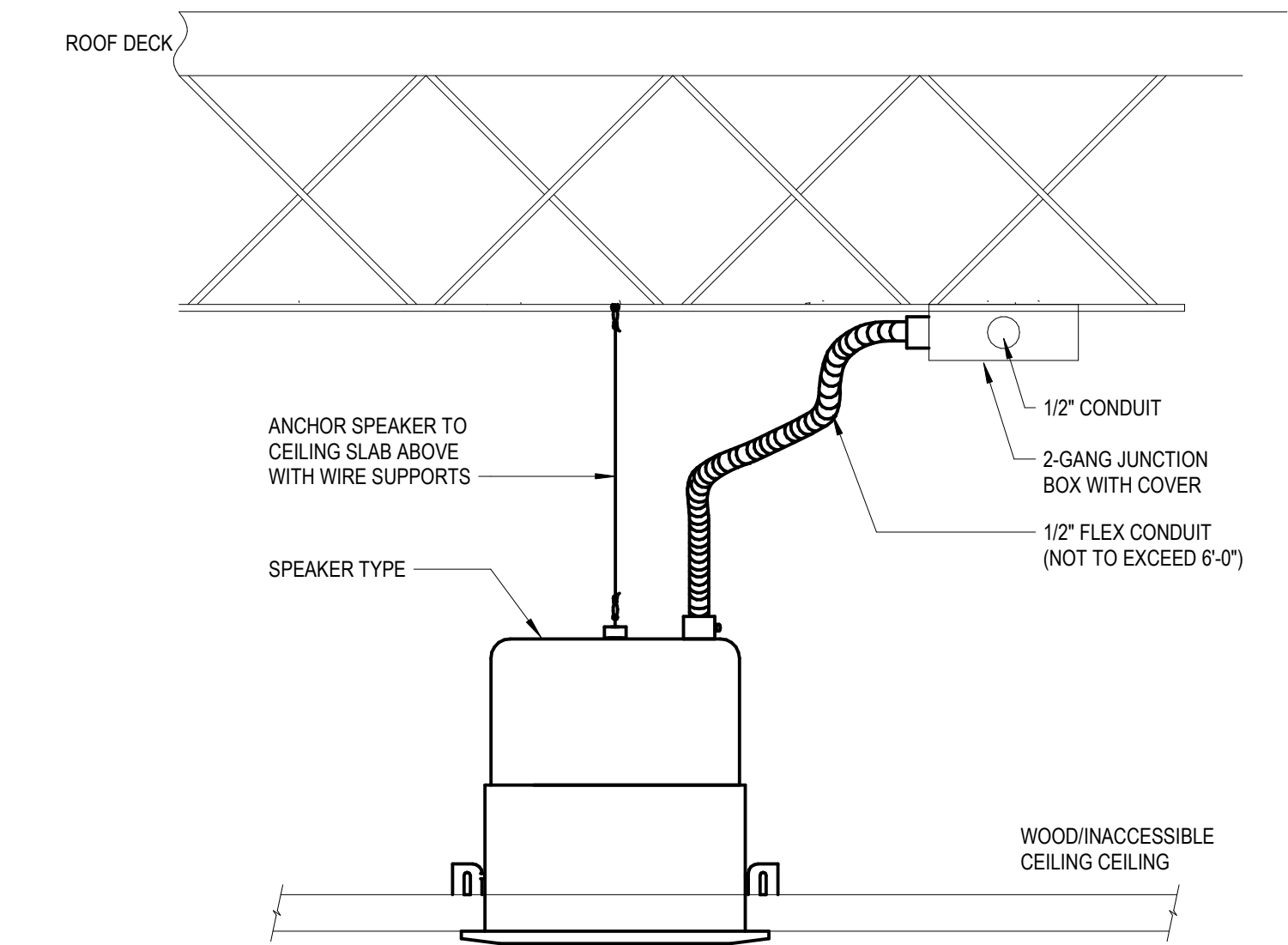
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IDS Drawing Title

Technology Details

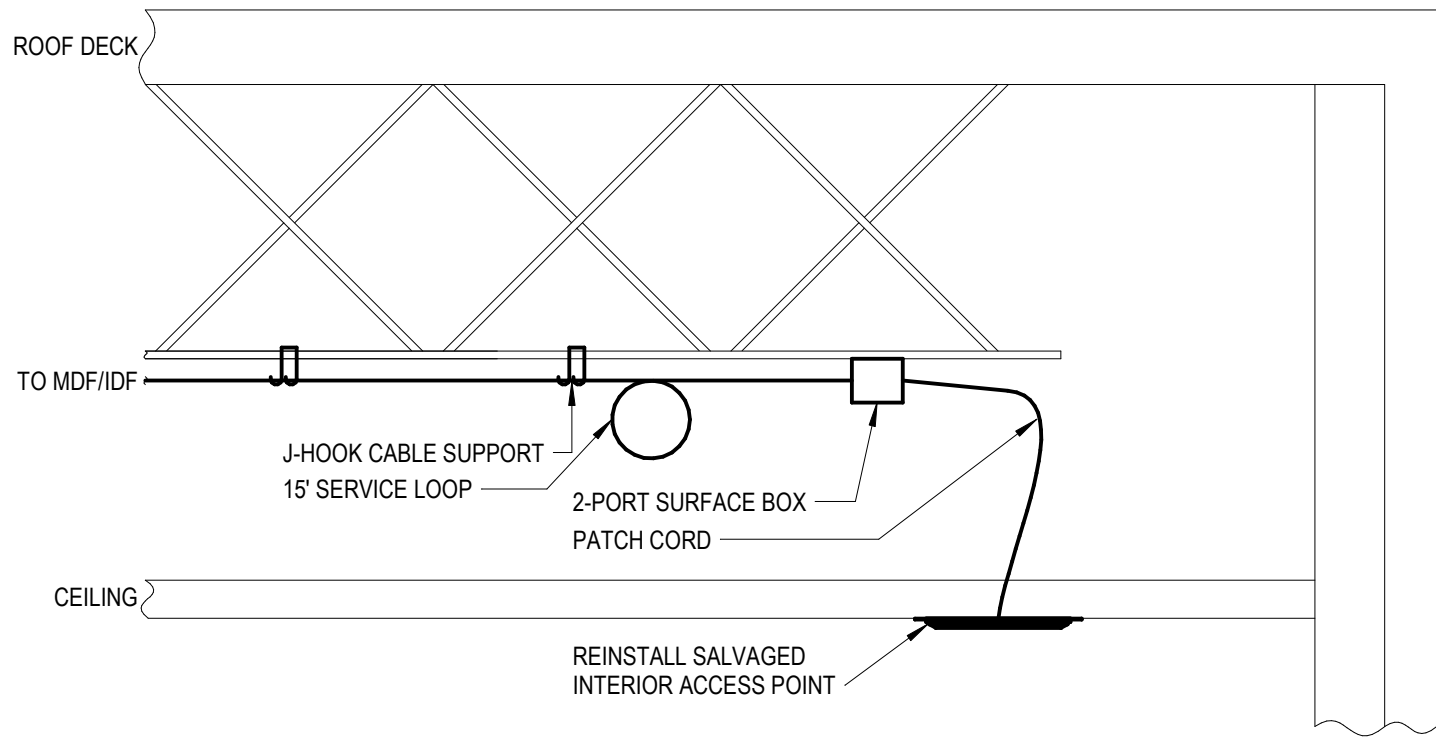
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Drawing Number

20120-1000

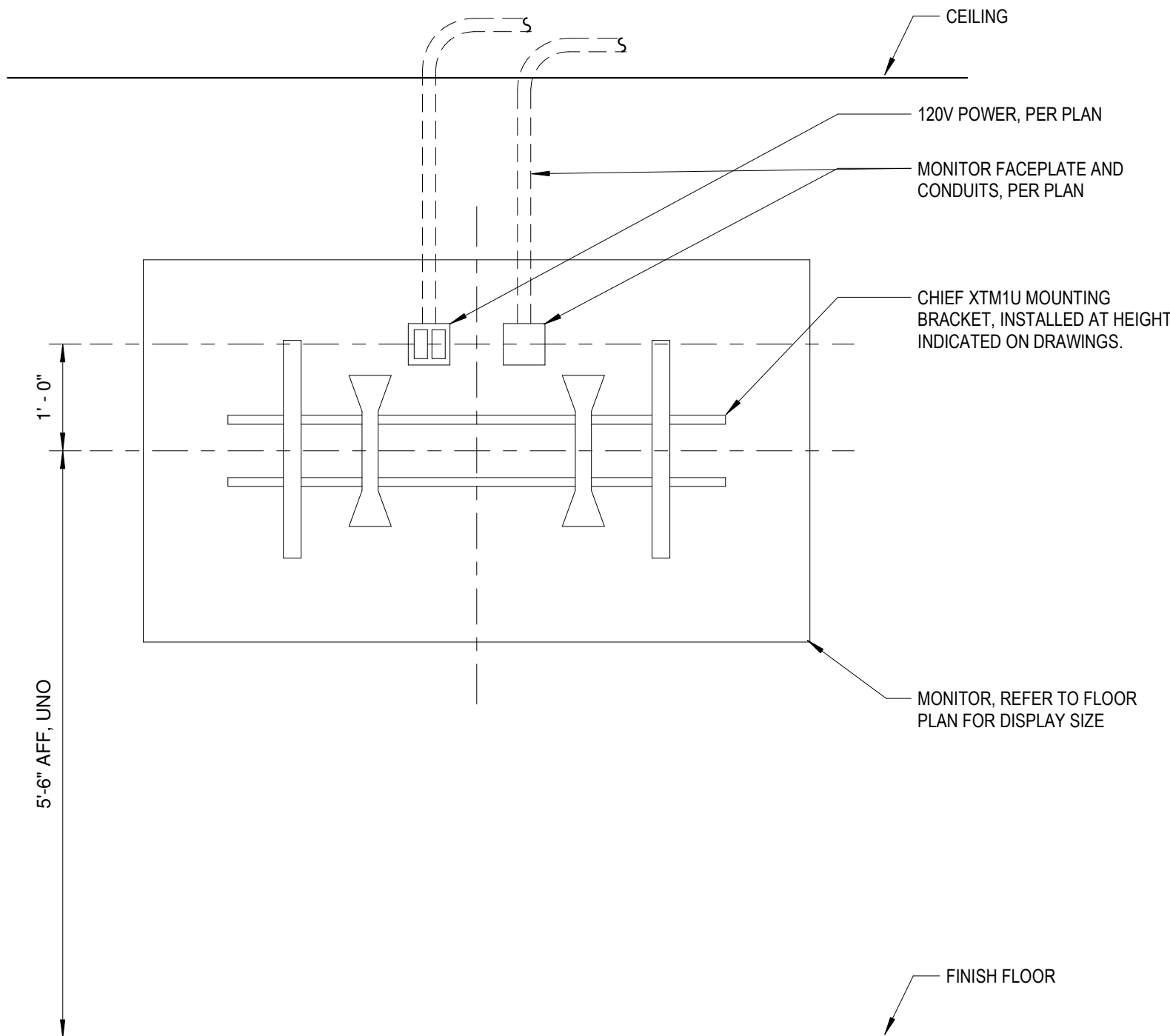
T5.2



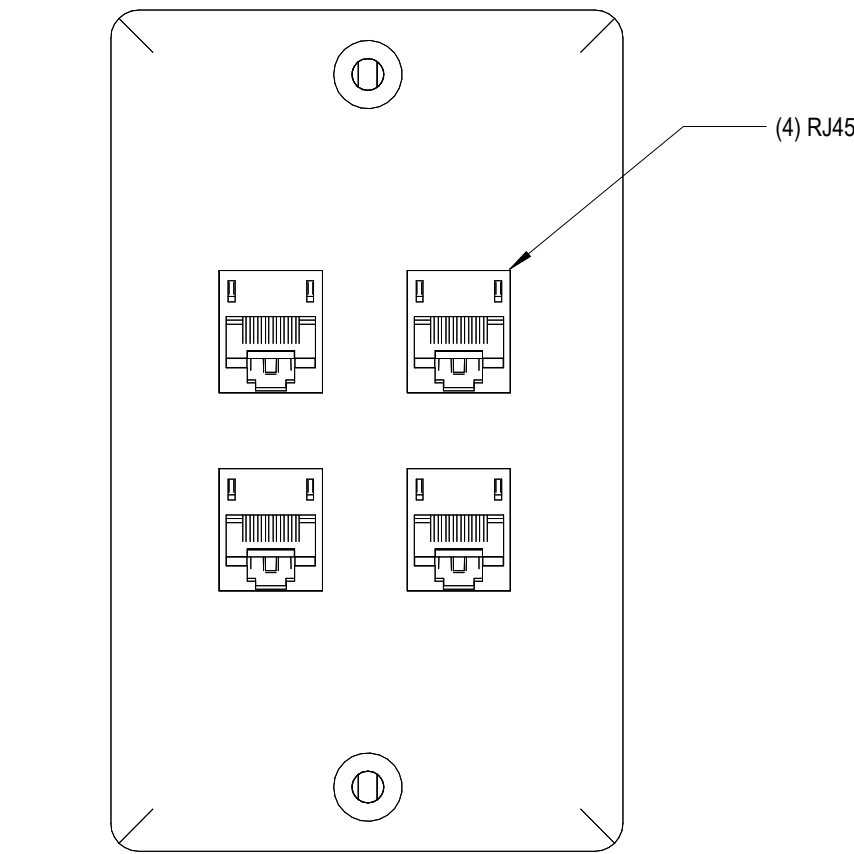
5 TYPICAL INACCESSIBLE CEILING SPEAKER
Not To Scale



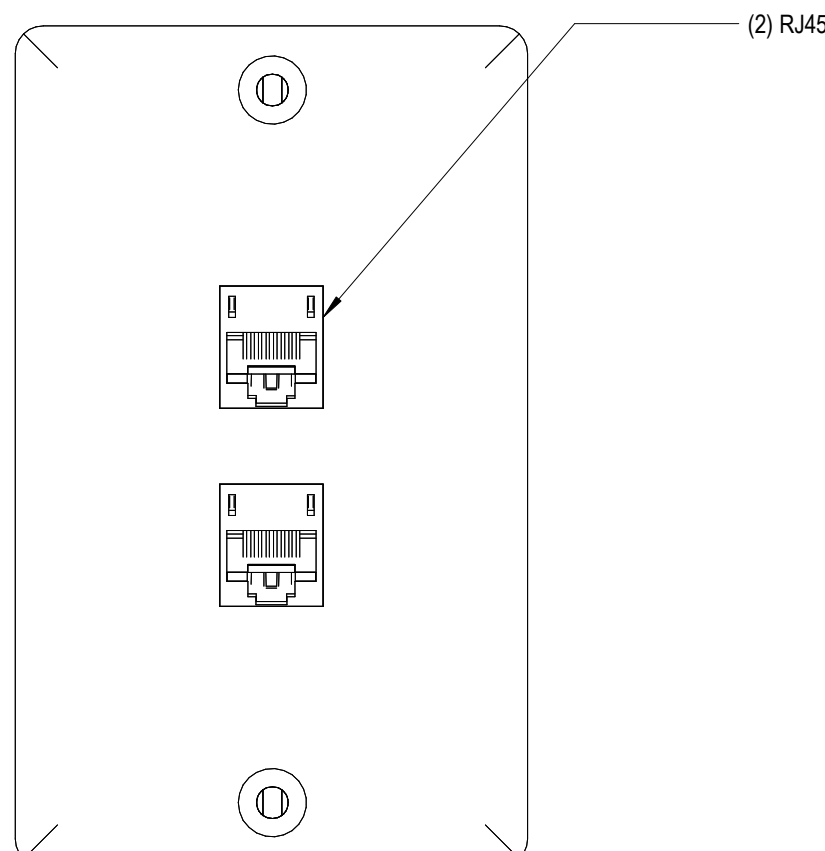
4 TYPICAL WAP NSTALLATION DETAIL
Not To Scale



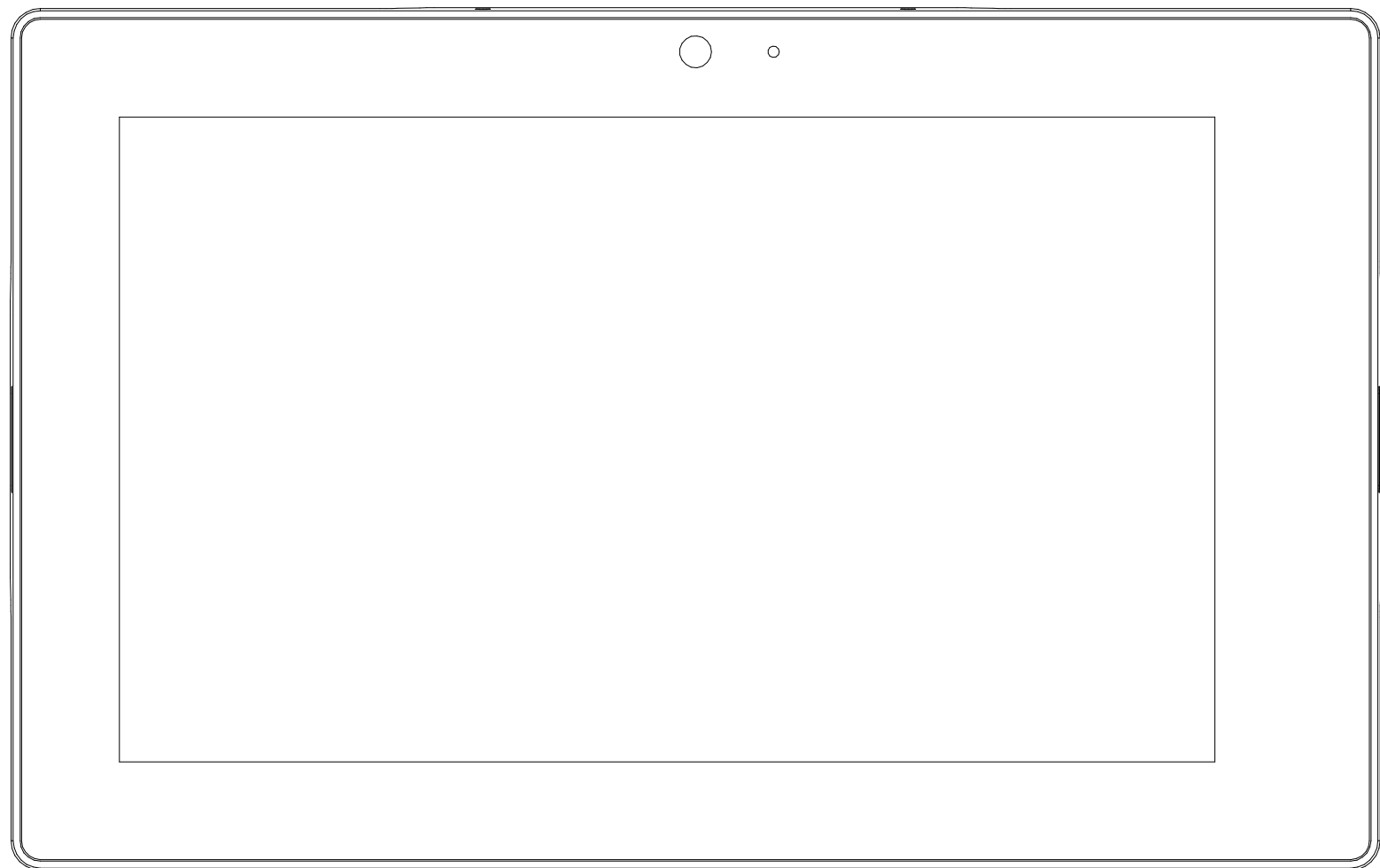
3 TYPICAL MONITOR INSTALLATION DETAIL
Not To Scale



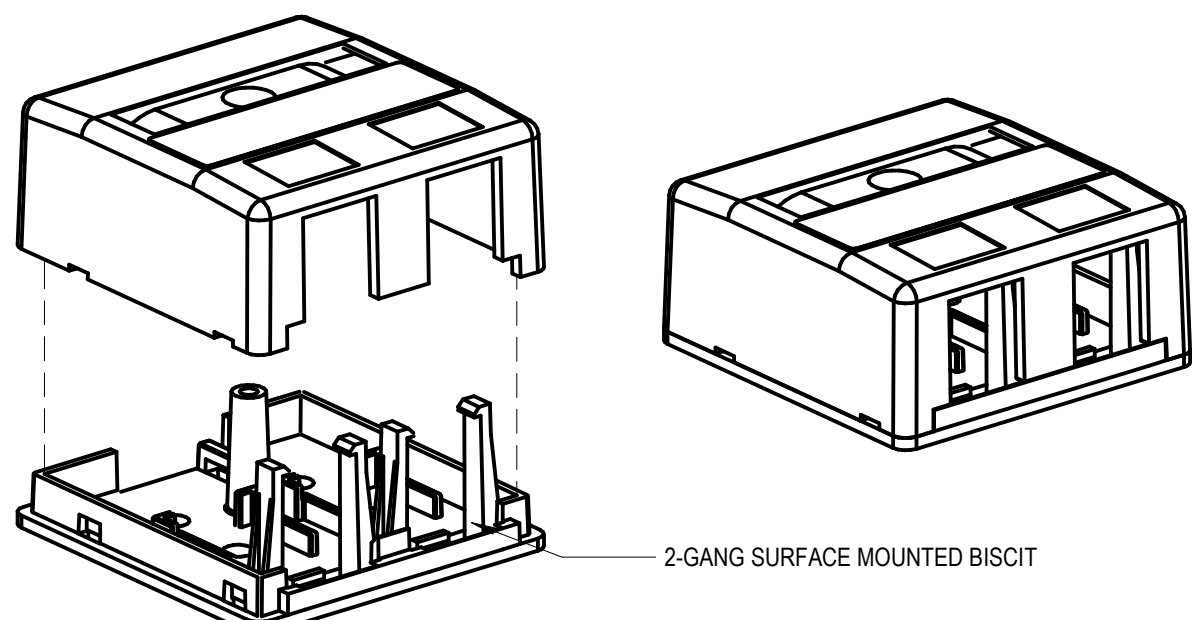
2 FACEPLATE TYPE "B"
Not To Scale



1 FACEPLATE TYPE "A"
Not To Scale



7 TOUCHPANEL CONTROL (TP)
Not To Scale



6 TYPICAL SURFACE DATA DROP BOX
Not To Scale