

CAMDEN COUNTY LIBRARY SYSTEM

M. ALLAN VOGELSON LIBRARY RENOVATION

203 LAUREL ROAD
VOORHEES, NEW JERSEY
CAMDEN COUNTY, NEW JERSEY



304 White Horse Pike
Haddon Heights, New Jersey 08035

Tel 856-546-8611
Fax 856-546-8612

www.BachDesignGroup.com

Code Review Data:

APPLICABLE BUILDING CODES & GUIDELINES

2021 INTERNATIONAL BUILDING CODE - NEW JERSEY EDITION
2021 NATIONAL STANDARD PLUMBING CODE
2020 NATIONAL ELECTRIC CODE (NFPA 70)
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL FUEL GAS CODE
2017 ICC/ANSI A117.1
ASHRAE 90.1-2019

USE GROUP CLASSIFICATION (304.1)

(MAIN OCCUPANCY) A-3 ASSEMBLY
(PROJECT SPACE) B-BUSINESS

TYPE OF CONSTRUCTION (TABLE 601)

TYPE - 2B

AREA, HEIGHT, STORIES:

(MAIN OCCUPANCY) A3-ASSEMBLY: 3-STORY, SPRINKLERED
(PROJECT SPACE) B-BUSINESS (ON FIRST FLOOR): 1,607 +/- SF, 1-STORY, SPRINKLERED

HEIGHT LIMITATIONS (TABLE 504.3)

A-3 / B-BUSINESS USES, 75' (SPRINKLERED)

ALLOWABLE STORIES ABOVE GRADE PLANE (TABLE 504.4)

A-3 ASSEMBLY USE, 3 STORIES (SPRINKLERED)
B-BUSINESS USE, 4 STORIES (SPRINKLERED)

AREA LIMITATIONS (TABLE 506.2)

(MAIN OCCUPANCY) A3-ASSEMBLY, 28,500 SQUARE FEET (SPRINKLERED, 4-ST)
(PROJECT SPACE) B-BUSINESS USE, 92,000 SQUARE FEET (SPRINKLERED, 1-ST)

OCCUPANT LOADS (TABLE 1004.5)

B-BUSINESS (PROJECT SPACE)- 1,607 GROSS SF BASEMENT / 150 GROSS SF PER OCCUPANT = 10 OCCUPANTS MAXIMUM

COMMON PATH OF EGRESS TRAVEL (1006.2.1)

(B USE) WITH SPRINKLER SYSTEM: 100'

REMOTENESS OF EXITS (1007.1.1)

NOT LESS THAN ONE HALF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED

TRAVEL DISTANCE (TABLE 1017.2)

(B USE) WITH/WITHOUT SPRINKLER SYSTEM: 200'/300'

DEAD END CORRIDORS (1020.5)

LENGTH SHALL NOT EXCEED 50'-0"

NOTE TO ALL BIDDERS AND SUBS:
"BID PACKAGE" IS INCLUSIVE OF ALL DRAWING SHEETS LISTED ON THIS COVER SHEET, ALL SPECIFICATIONS LISTED IN SPECIFICATION TABLE OF CONTENTS, AND ALL ADDENDA ISSUED PRIOR TO BID OPENING. BIDS SUBMITTED ARE ASSUMED TO BE COMPREHENSIVE AND ACCOUNTING FOR INFORMATION CONTAIN THROUGHOUT ENTIRE "BID PACKAGE". IT IS THE RESPONSIBILITY OF BIDDER TO PROVIDE ALL SUBCONTRACTORS, VENDORS, MATERIAL AND LABOR SUPPLIERS, ETC, WITH COMPLETE BID PACKAGE. FAILURE TO DO SO WILL NOT RELIEVE RESPONSIBILITY TO PROVIDE ALL WORK DESCRIBED IN THE "BID PACKAGE".

CONTRACTOR NOTE:
CONTRACTOR MUST CONTACT ARCHITECT/ENGINEER PRIOR TO STARTING CONSTRUCTION TO VERIFY THAT THE MOST CURRENT AND ARCHITECT/ENGINEER APPROVED REVISION SET OF PLANS ARE BEING USED. ANY CORRECTIONS AND OR CHANGES TO THE PLAN SET WHICH ARE NECESSARY DUE TO USE OF INVALID PLAN SETS ARE AT THE SOLE EXPENSE OF THE OWNER/CONTRACTOR. ARCHITECT/ENGINEER ASSUMES NO RESPONSIBILITY/LIABILITY FOR ANY WORK PERFORMED BASED ON INVALID PLAN SETS.

Index of Drawings:

C-1	COVER SHEET AND INDEX OF DRAWINGS
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A-3	DETAILS
A-4	DETAILS
A-5	SCHEDULES AND DETAILS
EC1	ELECTRICAL COVER SHEET
E-1.0	ELECTRICAL FLOOR PLAN
E-2.0	ELECTRICAL SPECIFICATIONS
E-2.1	ELECTRICAL SPECIFICATIONS
MC1	MECHANICAL COVER SHEET
M-1.0	MECHANICAL FLOOR PLAN
M-3.0	MECHANICAL DETAILS
M-4.0	MECHANICAL SPECIFICATIONS
M-4.1	MECHANICAL SPECIFICATIONS
FP-1.0	FIRE PROTECTION COVER SHEET
FP-2.0	FIRE PROTECTION FLOOR PLAN



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NOT FOR CONSTRUCTION
FOR REVIEW ONLY

STEVEN M. BACH, PE, RA, PP, CME
NJ PROFESSIONAL ENGINEER No. GE 41507
NJ REGISTERED ARCHITECT No. AI 14872
NJ PROFESSIONAL PLANNER No. LI 05557

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

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REVISIONS		
NO.	DESCRIPTION	DATE
1	ISSUE FOR BID	11-14-22

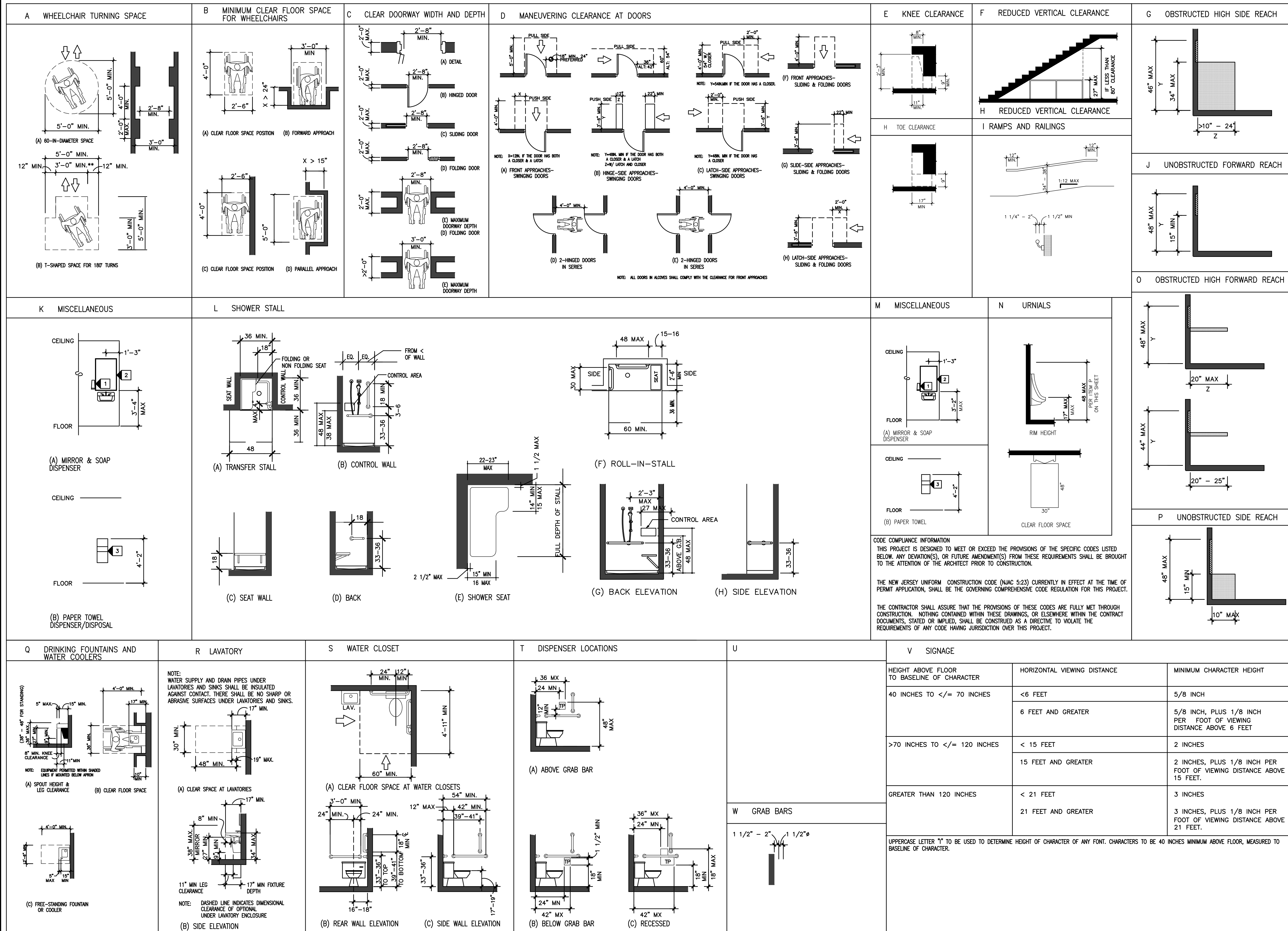
DRAWING TITLE:
COVER SHEET AND INDEX OF DRAWINGS

JOB NO: C02A2022-01	DESIGNED BY: DMS
DATE: 10-5-22	DRAWN BY: AAW
SCALE: AS NOTED	CHECKED BY: SMB

DRAWING NUMBER:

C-1

BARRIER FREE GUIDELINES FOR CONSTRUCTION – ICC/ANSI A117.1 – 2009



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DRAWING TITLE:
ADA GUIDELINES

JOB NO: C02A2022-01	DESIGNED BY: DMS
DATE: 10-5-22	DRAWN BY: AW
SCALE: AS NOTED	CHECKED BY: SMB
DRAWING NUMBER:	



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DRAWING TITLE:
DEMOLITION PLAN

JOB NO: C02A2022-01	DESIGNED BY: DMS
DATE: 10-5-22	DRAWN BY: AAW
SCALE: AS NOTED	CHECKED BY: SMB

DRAWING NUMBER:
D-1

EXISTING CONSTRUCTION NOTES:

BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING BUILDING, THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO STRUCTURAL, EGRESS, LIGHT, LIFE SAFETY, HVAC.

THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, AND CONDITIONS NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE WORK. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.

DEMOLITION NOTES:

ANY AND ALL DEMOLITION OF EXISTING STRUCTURES AND/OR PORTIONS OF EXISTING STRUCTURES SHALL BE PERFORMED AS NECESSARY TO ACCOMPLISH THE WORK AS INDICATED ON THE DRAWINGS.

THE CONTRACTOR SHALL MAKE ALL PROVISIONS AS NECESSARY TO PROTECT UNAFFECTED OR ADJACENT AREAS FROM DUST, TRASH, DEBRIS AS WELL AS DAMAGED, SOILING, PAINT OVERSPRAY, ETC. BY USE OF A FULLY SEALED CONSTRUCTION BARRIER SUCH AS "ZIPWALL" OR OTHER APPROVED METHOD OF PROTECTION. SYSTEM MUST BE PROVIDED AS A SUBMITTAL BEFORE CONSTRUCTION BEGINS. CONTRACTOR TO COORDINATE WITH TENANT FOR PLACEMENT OF CONSTRUCTION BARRIERS TO ALLOW FOR CONTINUED OPERATION OF AREAS NOT AFFECTED BY CONSTRUCTION.

EVACUATION ROUTES AND SIGNAGE MUST BE MAINTAINED DURING CONSTRUCTION.

NO CONSTRUCTION MATERIALS ARE TO BE KEPT OUTSIDE OF THE ENCLOSED AREA.

WALKOFF MATS OR OTHER MEANS OF DUST CONTROL TO BE USED TO ENSURE ADJACENT AREAS ARE NOT DAMAGED OR CONTAMINATED DURING CONSTRUCTION.

CONTRACTOR TO COORDINATE WITH OWNER AND ARCHITECT WEEKLY, AND DAILY TO DISCUSS CONSTRUCTION ACTIVITIES THAT MAY DISRUPT LIBRARY VISITOR BEHAVIOR.

ALL SOILED AND/OR DAMAGED PORTIONS OF THE EXISTING STRUCTURE SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.

TEMPORARY BRACING SHALL BE PROVIDED AS DEEMED NECESSARY BY THE CONTRACTOR AND LEFT IN PLACE UNTIL WORK IS PERMANENTLY STABILIZED.

A FULL SET OF CONSTRUCTION DOCUMENTS SHALL BE ON SITE AT ALL TIMES.

ALL DEMOLITION TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

NOTES:

ALL WORK SHALL COMPLY TO THE NEW JERSEY UNIFORM CONSTRUCTION CODE AND ALL ADOPTED SUBCODES, INCLUDING THE CURRENT ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE.

CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS.

ALL WORK IS TO BE PERFORMED TO THE HIGHEST STANDARDS OF THE TRADES.

CONTRACTOR SHALL PROVIDE FOR THE SAFETY OF ALL JOB RELATED PERSONNEL.

PATCH AND REPAIR ANY DAMAGED PARTITIONS AND/OR FLOORING DUE TO DEMOLITION WORK.

DETAILS ON THE DRAWINGS ARE SHOWN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SHOW GENERAL REQUIREMENTS THROUGHOUT. DETAILS NOTED "TYPICAL" IMPLY ALL CONDITIONS TREATED SIMILARLY. MODIFICATIONS TO BE MADE BY CONTRACTOR TO ACCOMMODATE MINOR VARIATIONS.

THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE SAFETY AND CONSTRUCTION PROCEDURES, TECHNIQUES, OR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, OR THE REQUIRED CODES.

CONTRACTOR SHALL BRING ERRORS AND OMISSIONS WHICH MAY OCCUR IN THE CONTRACT DOCUMENTS TO THE ATTENTION OF THE ARCHITECT IN WRITING AND WRITTEN INSTRUCTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY ERRORS, DISCREPANCIES, OR OMISSIONS IN THE RESPONSIBLE CONTRACT DOCUMENTS, OF WHICH THE CONTRACTOR FAILED TO NOTIFY THE ARCHITECT BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK.

THE CONTRACTOR AND THEIR SUBCONTRACTOR(S) SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AT THE JOB SITE SUFFICIENTLY IN ADVANCE OF WORK TO BE PERFORMED TO ASSURE THE ORDERLY PROGRESS OF THE WORK.

CONTRACTOR SHALL MAINTAIN THE PREMISES CLEAN AND FREE OF ALL TRASH, DEBRIS AND SHALL PROTECT ALL ADJACENT WORK FROM DAMAGE, SOILING, PAINT OVERSPRAY, ETC. ALL FIXTURES EQUIPMENT, GLAZING, FLOORS, ETC., SHALL BE LEFT CLEAN AND READY FOR OCCUPANCY UPON COMPLETION OF THE PROJECT. ALL TRASH AND DEBRIS IS TO BE REMOVED FROM THE SITE.

ALL MANUFACTURER'S PRINTED WARNINGS FOR HANDLING OF PRODUCTS MUST BE STRICTLY OBSERVED. THE WORDS "OR EQUAL" OR "OR EQUIVALENT" ARE TO BE ASSUMED WHENEVER A SPECIFIC MANUFACTURER IS NOTED.

CONTRACTOR TO PREP AND PAINT WALLS WITH 2 COATS OF PRIMER AND 2 COATS OF PAINT OR AS REQUIRED IN SPECIFICATIONS. COLOR DETERMINED BY OWNER OR AS SPECIFIED.

EXISTING ELECTRICAL COMPONENTS TO REMAIN EXCEPT AS NOTED. ANY ELECTRICAL COMPONENTS DISCONNECTED AND/OR REMOVED DURING CONSTRUCTION SHALL BE REINSTALLED IN THE SAME LOCATION BY A LICENSED ELECTRICAL CONTRACTOR UNLESS NOTED TO BE DEMOLISHED OR RELOCATED.

CONCRETE SLAB TO BE RESTORED TO MATCH EXISTING IF DAMAGED.

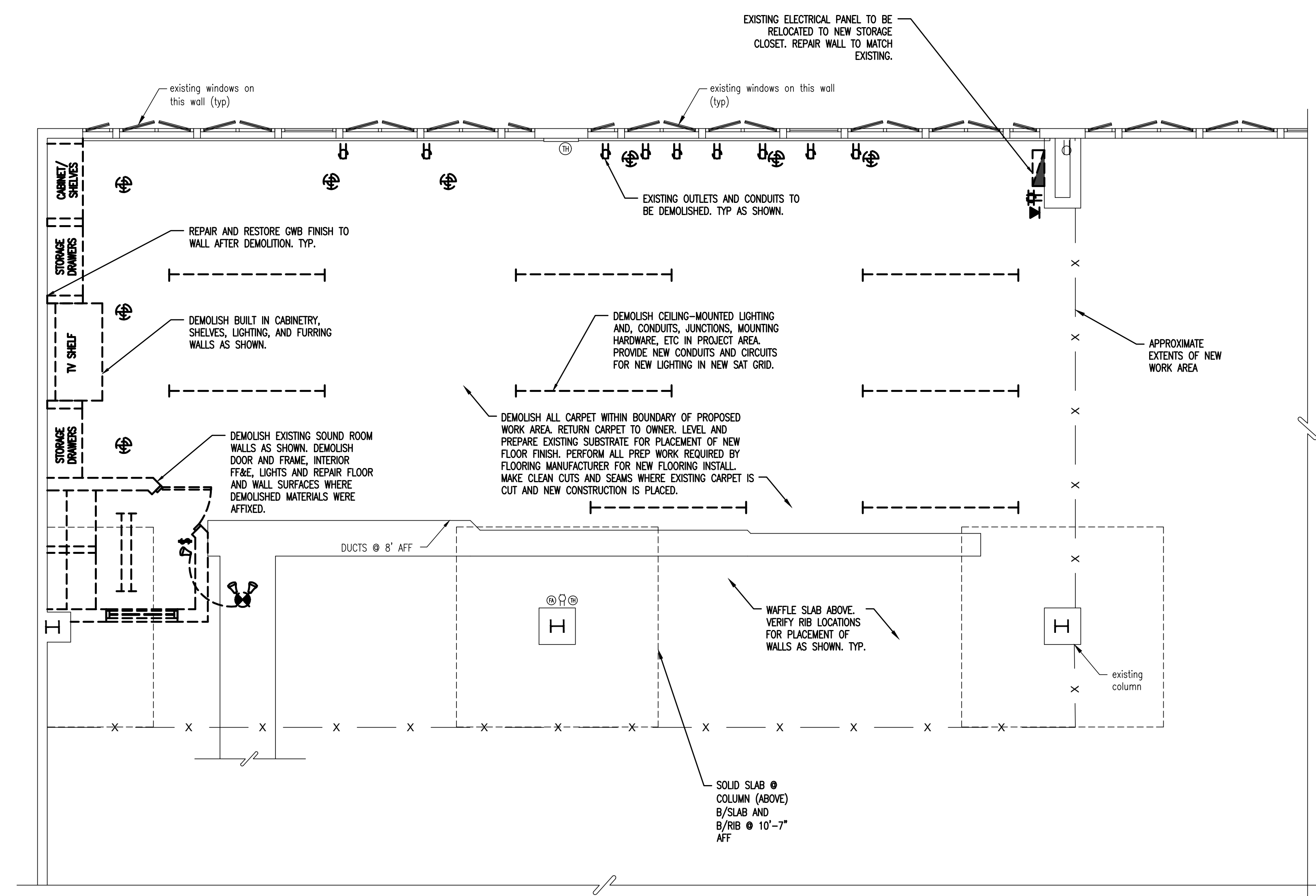
FINISH NOTES:

PROVIDE AND INSTALL GYPSUM WALLBOARD IN ACCORDANCE WITH "AMERICAN STANDARD SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM WALLBOARD" AS APPROVED BY THE AMERICAN STANDARDS ASSOCIATE, LATEST EDITION.

APPLICATION OF PAINT OR OTHER COATING SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. READY-MIXED PAINT SHALL NOT BE THINNED, EXCEPT AS PERMITTED IN THE APPLICATION INSTRUCTIONS.

FLOOR PLAN LEGEND:

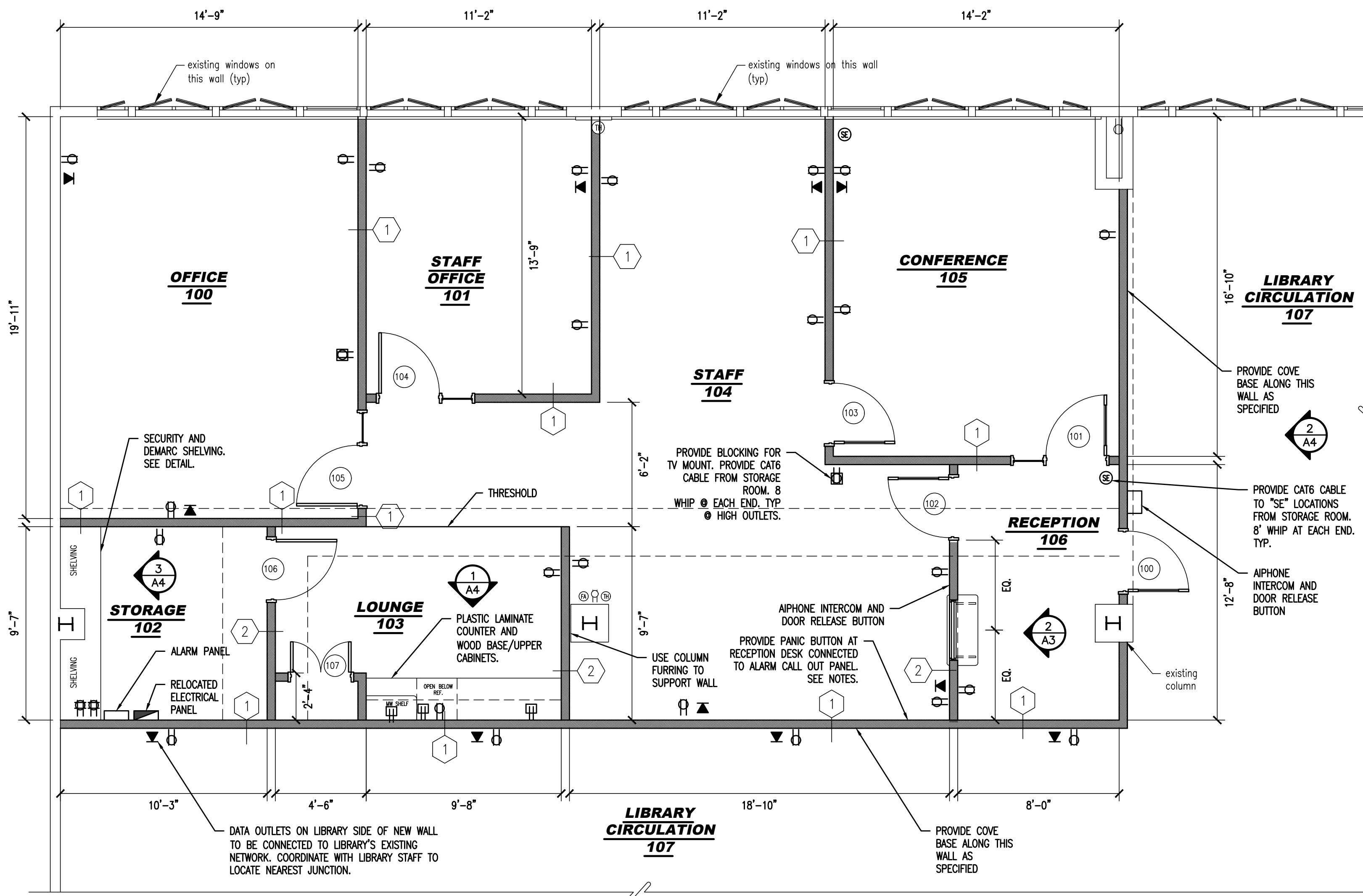
- PARTITION TO BE DEMOLISHED
- /// NEW INTERIOR PARTITION
- EXISTING PARTITION
- ⌋ NEW DOOR AND FRAME
- ⌋ EXISTING DOOR AND FRAME
- ⊕ EXISTING DUPLEX RECEPTACLE OUTLET
- ⊕ NEW DUPLEX RECEPTACLE OUTLET
- ⊕ NEW QUAD RECEPTACLE OUTLET
- ⊕ NEW DUPLEX RECEPTACLE OUTLET 1'-0" FROM CEILING FOR EQUIPMENT MOUNT DATA PORT
- GFI ⊕ DUPLEX RECEPTACLE OUTLET-GROUND FAULT INTERRUPTER
- WPGFI ⊕ WATER PROOF DUPLEX RECEPTACLE OUTLET-GROUND FAULT INTERRUPTER
- ⊕ SURFACED MOUNTED OUTLET
- ⊕ LED LIGHT FIXTURE
- ⊕ SWITCH
- ⊕ DIMMER SWITCH
- ⊕ 3-WAY SWITCH
- ⊕ 4-WAY SWITCH
- ⊕ SMOKE DETECTOR - HARDWIRE & INTERCONNECTED
- ⊕ CARBON MONOXIDE DETECTOR HARDWIRE & INTERCONNECTED
- ⊕ SPRINKLER
- ⊕ FIRE STROBE/ALARM
- ⊕ FIRE PULL STATION
- ⊕ CEILING MOUNTED SPEAKER
- ⊕ SECURITY EQUIPMENT/CAMERA
- ⊕ EMERGENCY PULL SWITCH
- ⊕ EMERGENCY EXIT SIGN WITH DIRECTION INDICATOR
- ⊕ EMERGENCY LIGHT WITH BATTERY BACKUP
- ⊕ EMERGENCY EXIT LIGHT WITH DIRECTION INDICATOR AND BATTERY BACKUP
- ⊕ SECTION TAG
- ⊕ ELEVATION TAG
- ⊕ PARTITION TYPE
- ⊕ DOOR IDENTIFICATION



1 DEMOLITION FLOOR PLAN
SCALE: 1/2" = 1'-0"

DEMOLISH ALL CARPET WITHIN BOUNDARY OF PROPOSED WORK AREA. RETURN CARPET TO OWNER. LEVEL AND PREPARE EXISTING SUBSTRATE FOR PLACEMENT OF NEW FLOOR FINISH. PERFORM ALL PREP WORK REQUIRED BY FLOORING MANUFACTURER FOR NEW FLOORING INSTALL.

CAUTION:
CONTRACTOR TO TEMPORARILY BRACE ALL EXISTING STRUCTURAL MEMBERS INCLUDING FOUNDATIONS, COLUMNS, BEAMS, JOISTS, WALLS, FLOORS AND CEILINGS, ETC. AS NECESSARY PRIOR TO DEMOLITION & CONSTRUCTION!



1 FLOOR PLAN
SCALE: 1/2" = 1'-0"

FLOOR PLAN LEGEND:

- PARTITION TO BE DEMOLISHED
- /// NEW INTERIOR PARTITION
- EXISTING PARTITION
- NEW DOOR AND FRAME
- EXISTING DOOR AND FRAME
- EXISTING DUPLEX RECEPTACLE OUTLET
- NEW DUPLEX RECEPTACLE OUTLET
- NEW QUAD RECEPTACLE OUTLET
- NEW DUPLEX RECEPTACLE OUTLET 1'-0" FROM CEILING FOR EQUIPMENT MOUNT DATA PORT
- GFI DUPLEX RECEPTACLE OUTLET-GROUND FAULT INTERRUPTER
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- SURFACED MOUNTED OUTLET
- LED LIGHT FIXTURE
- SWITCH
- DIMMER SWITCH
- 3-WAY SWITCH
- 4 4-WAY SWITCH
- Ⓢ SMOKE DETECTOR - HARDWIRE & INTERCONNECTED
- Ⓢ CARBON MONOXIDE DETECTOR HARDWIRE & INTERCONNECTED
- Ⓢ SPRINKLER
- Ⓢ FIRE STROBE/ALARM
- Ⓢ FIRE PULL STATION
- Ⓢ CEILING MOUNTED SPEAKER
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- Ⓢ EMERGENCY PULL SWITCH
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- Ⓢ EMERGENCY LIGHT WITH BATTERY BACKUP
- Ⓢ EMERGENCY EXIT LIGHT WITH DIRECTION INDICATOR AND BATTERY BACKUP
- Ⓢ SECTION TAG
- Ⓢ ELEVATION TAG
- Ⓢ PARTITION TYPE
- Ⓢ DOOR IDENTIFICATION

REFLECTED CEILING LEGEND:

- 24x48 LED LIGHT FIXTURE
- 24x24 LED LIGHT FIXTURE
- 4x8 LED LIGHT FIXTURE
- DIFFUSER (SIZE VARIES)
- RETURN (SIZE VARIES)
- LINEAR LED FIXTURE

EXISTING CONSTRUCTION NOTES:

BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING BUILDING, THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE EXISTING STRUCTURAL AND OTHER CONDITIONS.

THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, AND CONDITIONS NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE WORK. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.

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PANIC BUTTON SYSTEM TO INCLUDE THE FOLLOWING COMPONENTS:

- MANUFACTURER: BEC INTEGRATED SOLUTIONS
1. WIRELESS DESK CONSOLE MV200
 2. WIRELESS SECURITY BUTTON STATION UNDER COUNTER/SURFACE MOUNT WNC-SB
 3. BEC INDOOR/OUTDOOR SIREN AND STROBE PR-DOBERMAN
 4. AUTO VOICE DIALER TWO INPUT VOICE ALARM DIALER K-202-DVA

CONTRACTOR SHALL BRING ERRORS AND OMISSIONS WHICH MAY OCCUR IN THE CONTRACT DOCUMENTS TO THE ATTENTION OF THE ARCHITECT IN WRITING AND WRITTEN INSTRUCTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR WILL BE HELD FOR THE RESULTS OF ANY ERRORS, DISCREPANCIES, OR OMISSIONS IN THE RESPONSIBLE CONTRACT DOCUMENTS, OF WHICH THE CONTRACTOR FAILED TO NOTIFY THE ARCHITECT BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK.

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CONCRETE SLAB TO BE RESTORED TO MATCH EXISTING IF DAMAGED.

FINISH NOTES:

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REVISIONS		
NO.	DESCRIPTION	DATE
1	ISSUE FOR BID	11-14-22

DRAWING TITLE:

FLOOR PLAN

JOB NO: C0A2022-01	DESIGNED BY: DMS
DATE: 10-5-22	DRAWN BY: AAW
SCALE: AS NOTED	CHECKED BY: SMB
DRAWING NUMBER:	

CAUTION:
CONTRACTOR TO TEMPORARILY BRACE ALL EXISTING STRUCTURAL MEMBERS INCLUDING FOUNDATIONS, COLUMNS, BEAMS, JOISTS, WALLS, FLOORS AND CEILINGS, ETC. AS NECESSARY PRIOR TO DEMOLITION & CONSTRUCTION!



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STEVEN M. BACH, PE, RA, PP, CME
NJ PROFESSIONAL ENGINEER No. GE 41507
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NJ PROFESSIONAL PLANNER No. LI 05557

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PROJECT:

CAMDEN COUNTY LIBRARY SYSTEM
M. ALLAN VOGELSON
LIBRARY RENOVATION
203 LAUREL ROAD
VOORHEES, NEW JERSEY 08043
CAMDEN COUNTY, NEW JERSEY

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REVISIONS

NO.	DESCRIPTION	DATE
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DRAWING TITLE:
REFLECTED CEILING PLAN

JOB NO: C02A2022-01	DESIGNED BY: DMS
DATE: 10-5-22	DRAWN BY: AAW
SCALE: AS NOTED	CHECKED BY: SMB
DRAWING NUMBER:	

A-2

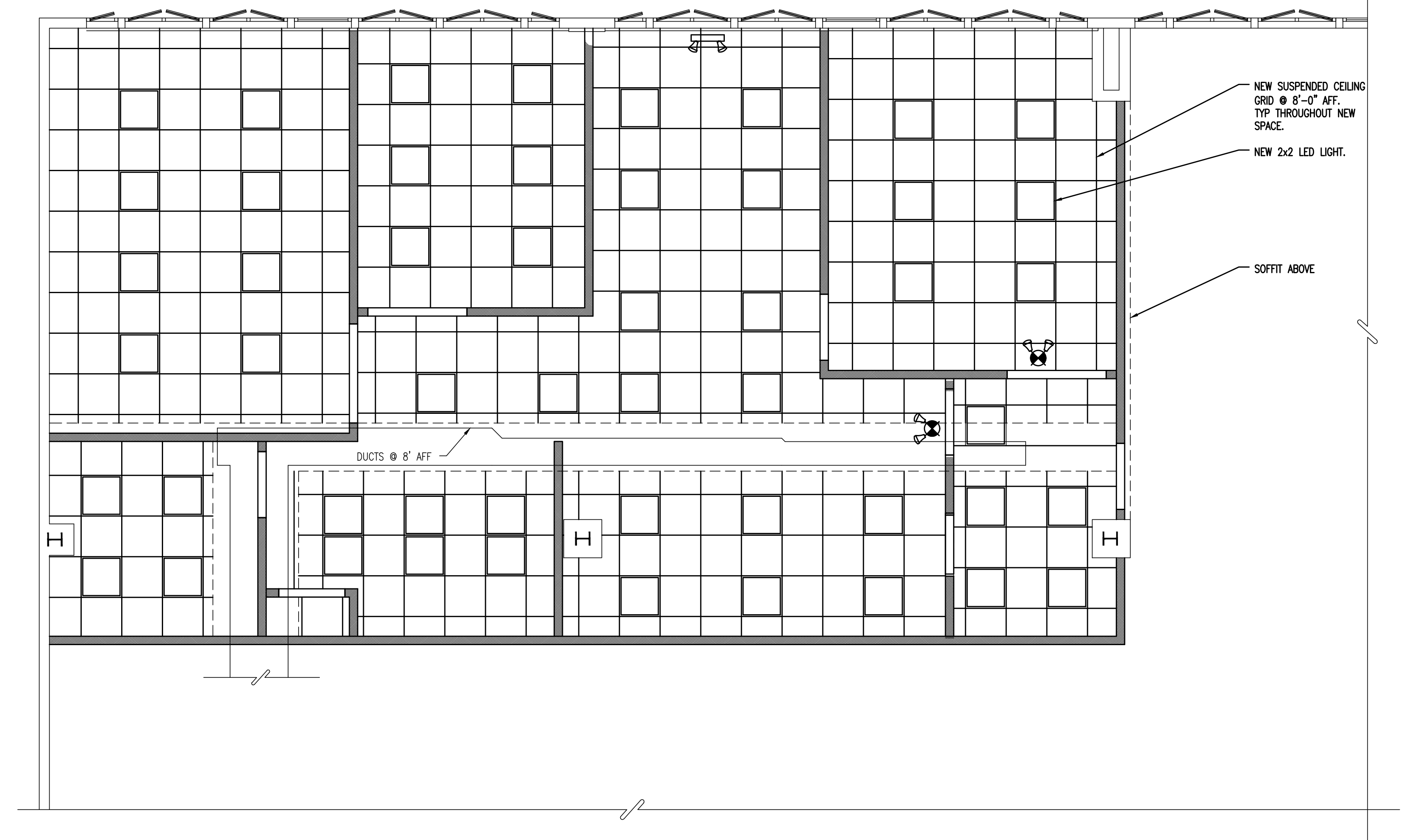
NOTES:
NEW DROPS FOR SPRINKLER HEADS TO BE ADDED TO EXISTING SUPPLY PIPES TO COVER AREA UNDER NEW SUSPENDED CEILING. CONTRACTOR TO SUBMIT ENGINEERED FIRE PROTECTION PLANS SHOWING NEW SPRINKLER HEAD LOCATIONS ABOVE AND BELOW NEW CEILING.

FLOOR PLAN LEGEND:

- PARTITION TO BE DEMOLISHED
- NEW INTERIOR PARTITION
- EXISTING PARTITION
- NEW DOOR AND FRAME
- EXISTING DOOR AND FRAME
- EXISTING DUPLEX RECEPTACLE OUTLET
- NEW DUPLEX RECEPTACLE OUTLET
- NEW QUAD RECEPTACLE OUTLET
- NEW DUPLEX RECEPTACLE OUTLET 1'-0" FROM CEILING FOR EQUIPMENT MOUNT DATA PORT
- DUPLEX RECEPTACLE OUTLET-GROUND FAULT INTERRUPTER
- WATER PROOF DUPLEX RECEPTACLE OUTLET-GROUND FAULT INTERRUPTER
- SURFACED MOUNTED OUTLET
- LED LIGHT FIXTURE
- SWITCH
- DIMMER SWITCH
- 3-WAY SWITCH
- 4-WAY SWITCH
- SMOKE DETECTOR - HARDWIRE & INTERCONNECTED
- CARBON MONOXIDE DETECTOR HARDWIRE & INTERCONNECTED
- SPRINKLER
- FIRE STROBE/ALARM
- FIRE PULL STATION
- CEILING MOUNTED SPEAKER
- SECURITY EQUIPMENT/CAMERA
- EMERGENCY PULL SWITCH
- EMERGENCY EXIT SIGN WITH DIRECTION INDICATOR
- EMERGENCY LIGHT WITH BATTERY BACKUP
- EMERGENCY EXIT LIGHT WITH DIRECTION INDICATOR AND BATTERY BACKUP
- SECTION TAG
- ELEVATION TAG
- PARTITION TYPE
- DOOR IDENTIFICATION

REFLECTED CEILING LEGEND:

- 24x48 LED LIGHT FIXTURE
- 24x24 LED LIGHT FIXTURE
- 4x48 LED LIGHT FIXTURE
- DIFFUSER (SIZE VARIES)
- RETURN (SIZE VARIES)
- LINEAR LED FIXTURE
- RECESSED LIGHT FIXTURE



1 REFLECTED CEILING PLAN
SCALE: 1/2" = 1'-0"



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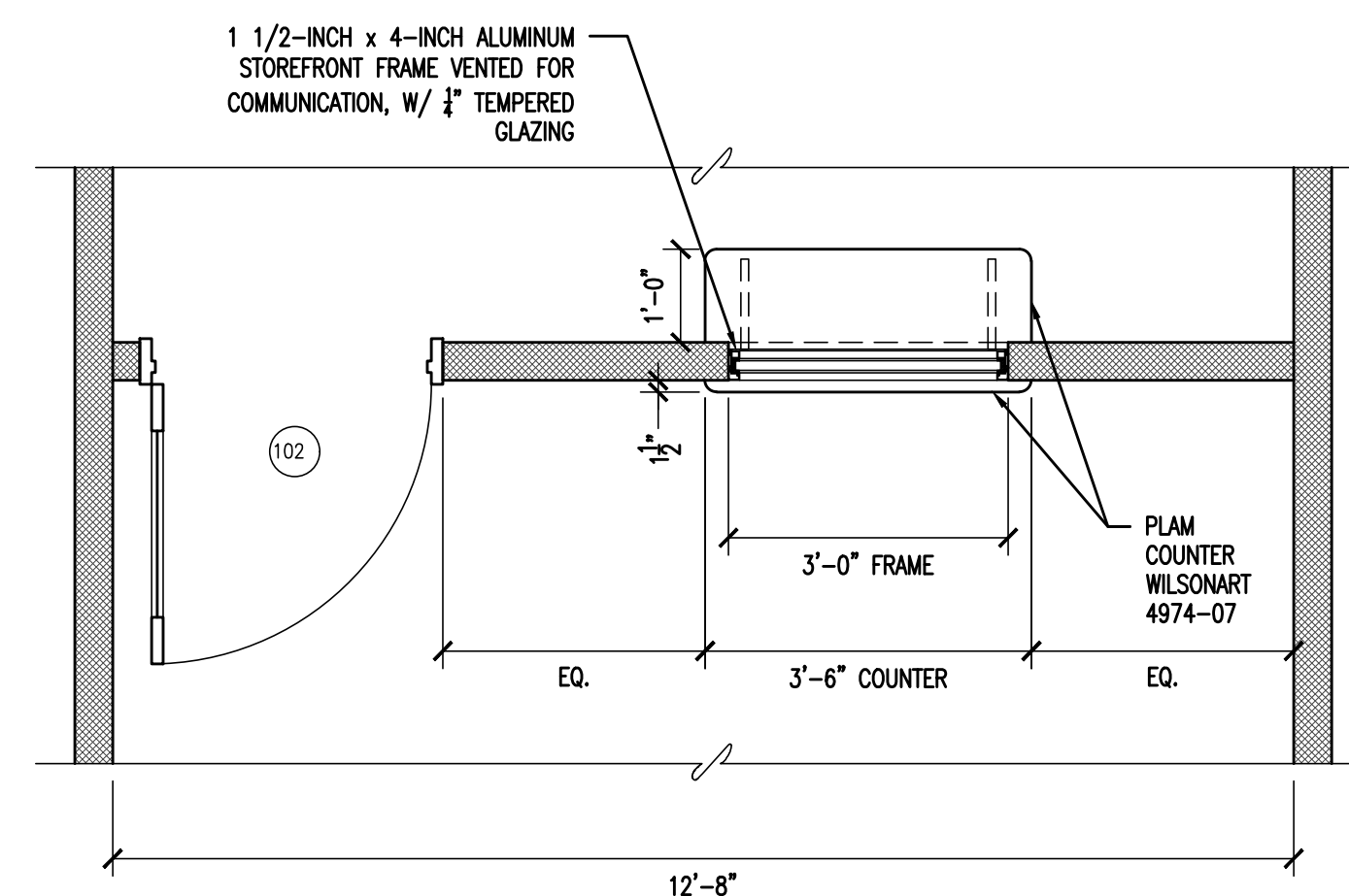
DRAWING TITLE:

DETAILS

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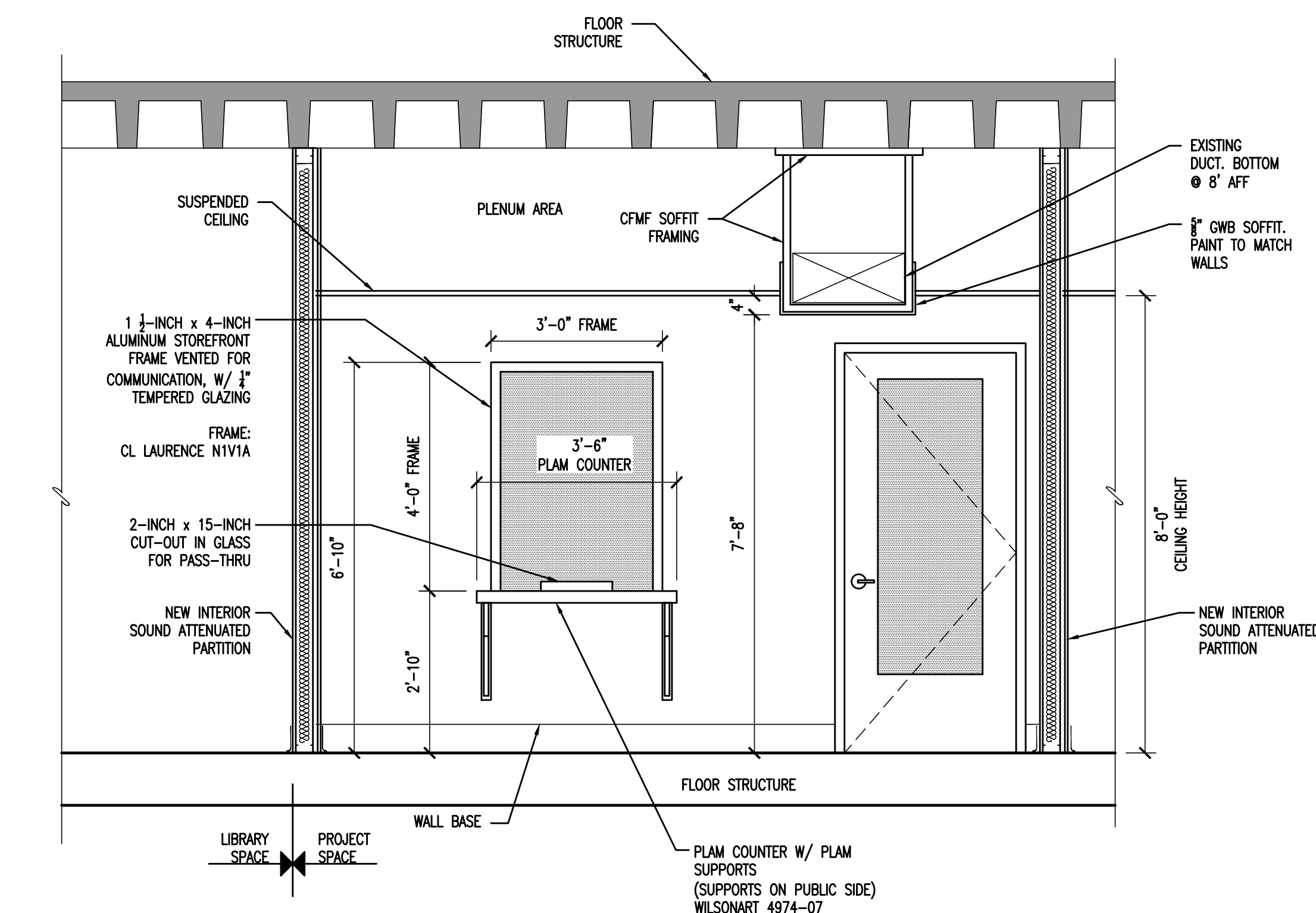
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A-3

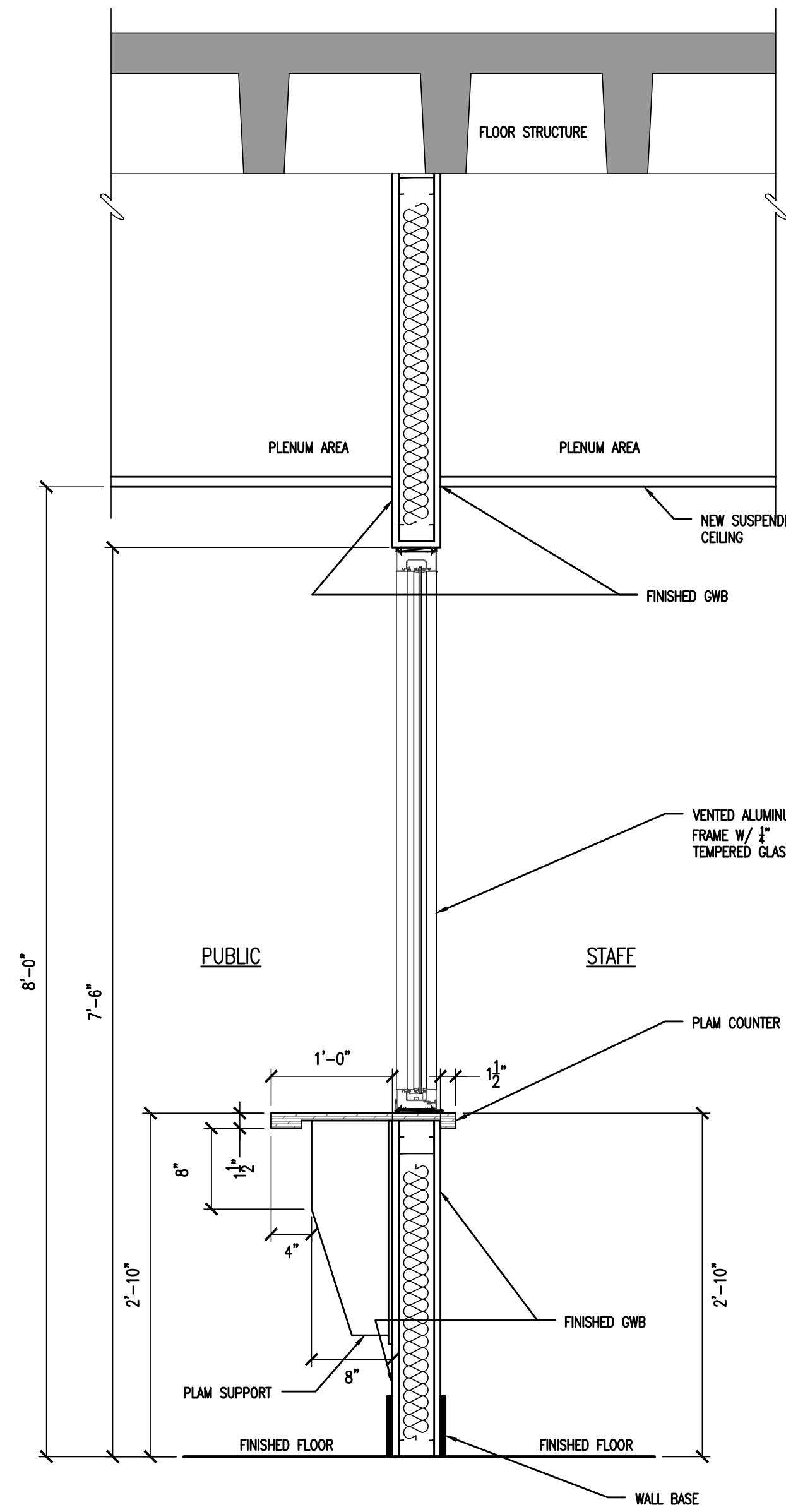


1 PLAN - SERVICE WINDOW
SCALE: 1/2" = 1'-0"

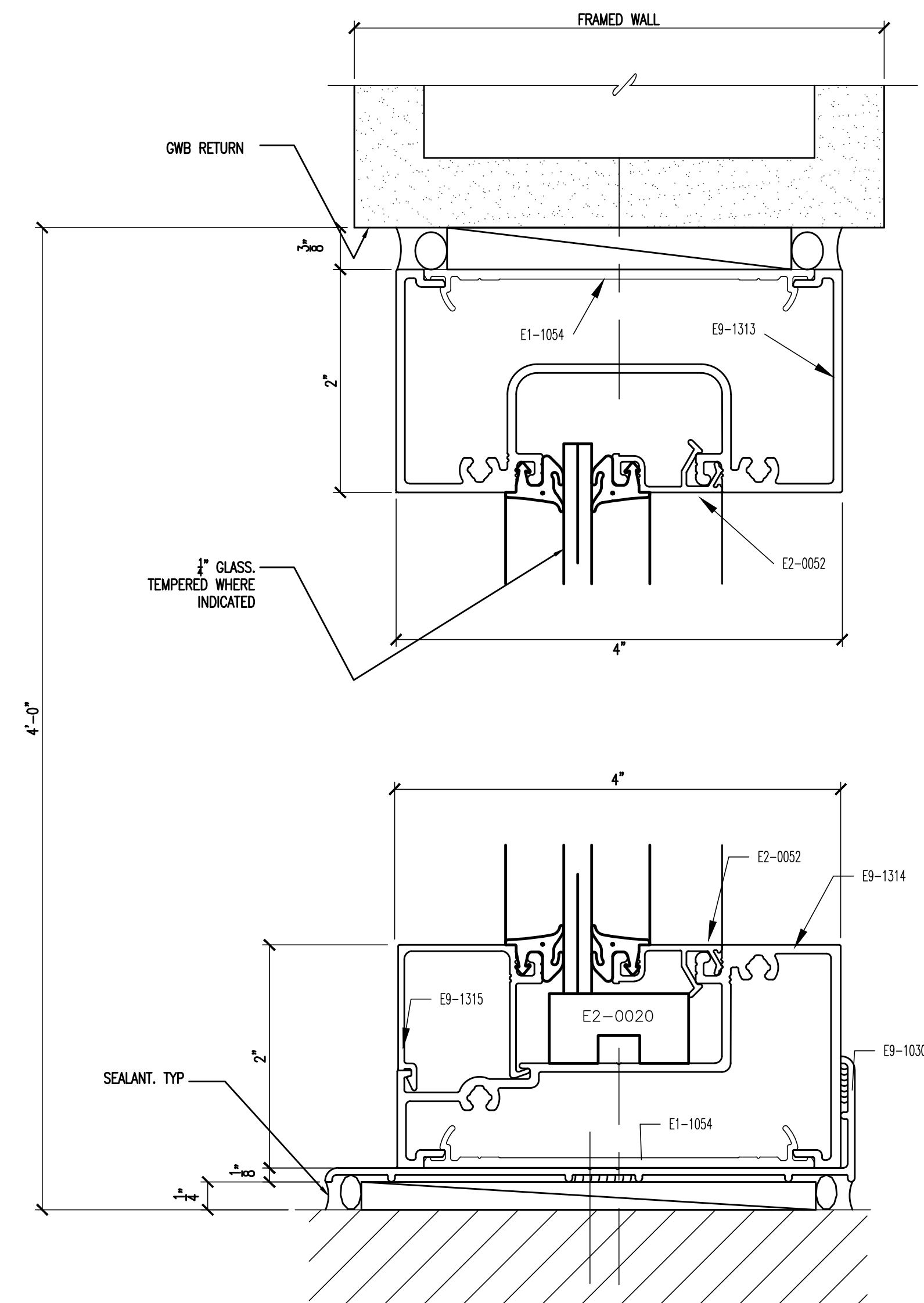
SERVICE COUNTER NOTES:
COORDINATE WITH OWNER FOR FINAL LOCATION OF PANIC BUTTON, CONNECTED TO ALARM CALL OUT PANEL.
COORDINATE WITH OWNER FOR FINAL LOCATION OF MASTER STATION MODULE FOR ACCESS SENTRY SYSTEM IN STORAGE 102. OBSERVE MAXIMUM LOW VOLTAGE RUN LENGTH FOR LOCATION OF ACCESS SENTRY SYSTEM POWER SUPPLY. PROVIDE FULL VOLTAGE TO TRANSFORMER IF LOW-VOLTAGE RUN EXCEEDS MAXIMUM ALLOWABLE.
COORDINATE WITH OWNER FOR FINAL LOCATION OF SURFACE MOUNT AIRPHONE DOOR STATION FOR ACCESS SENTRY SYSTEM LOCATED AT DOOR 100.



2 ELEVATION - SERVICE WINDOW
SCALE: 1/2" = 1'-0"



3 SECTION - SERVICE WINDOW
SCALE: 1" = 1'-0"



NOTE:
REFERENCES TO INDIVIDUAL COMPONENTS TAKEN FROM MANUFACTURER'S DETAILS. CONFIRM ASSEMBLY WITH MANUFACTURER

SECTION - ALUMINUM STOREFRONT
4 @ SERVICE WINDOW
SCALE: NOT TO SCALE



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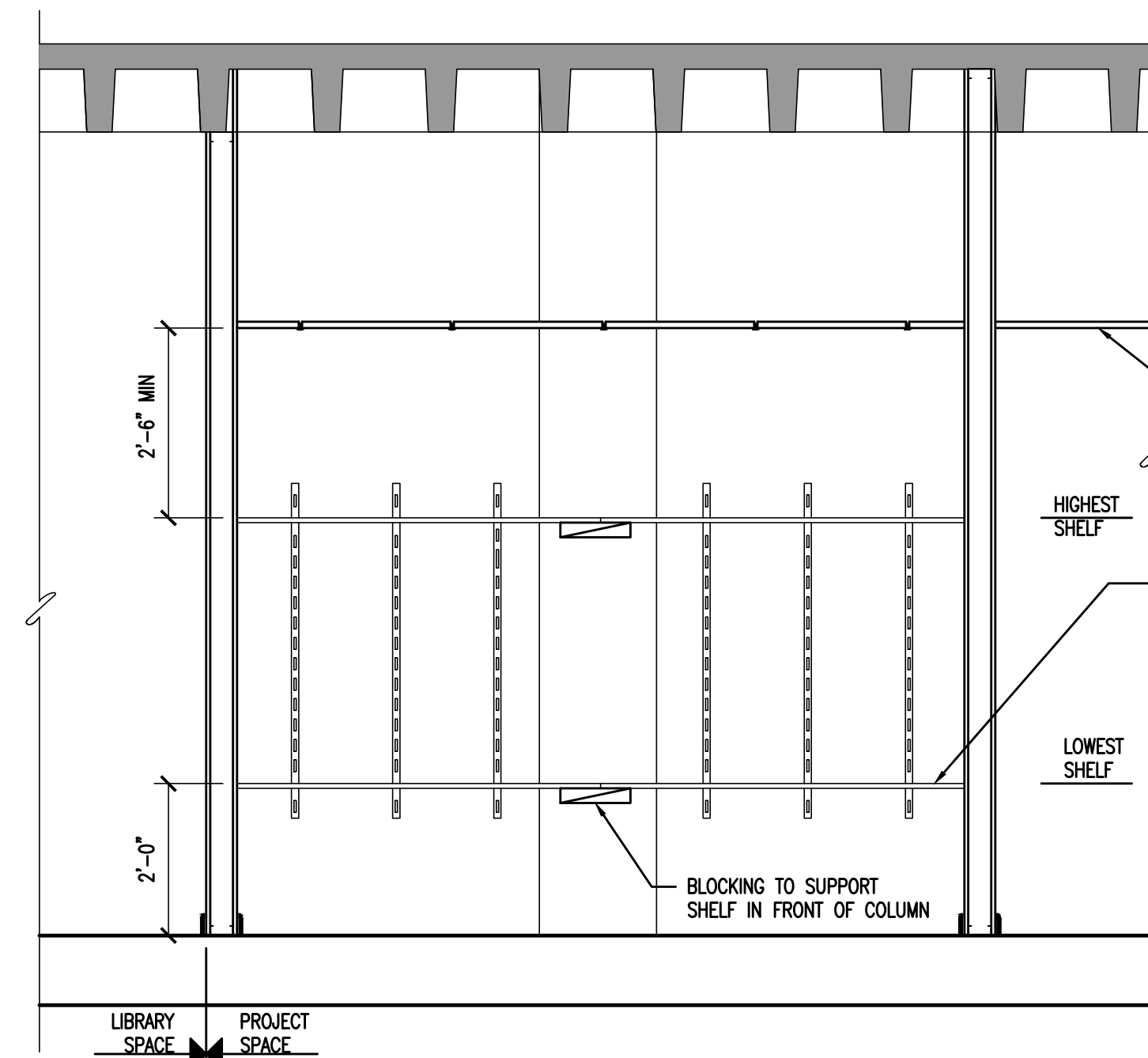
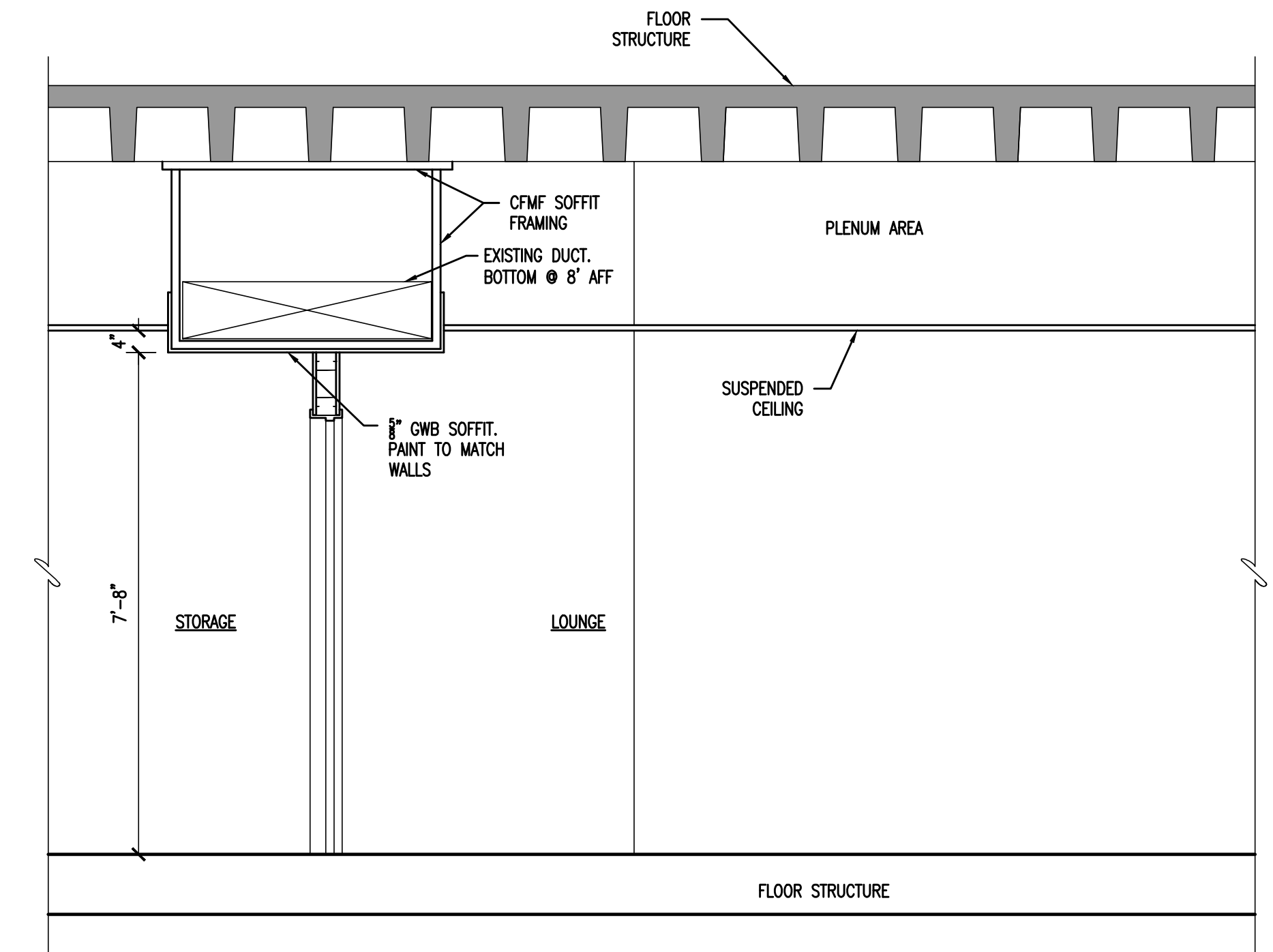
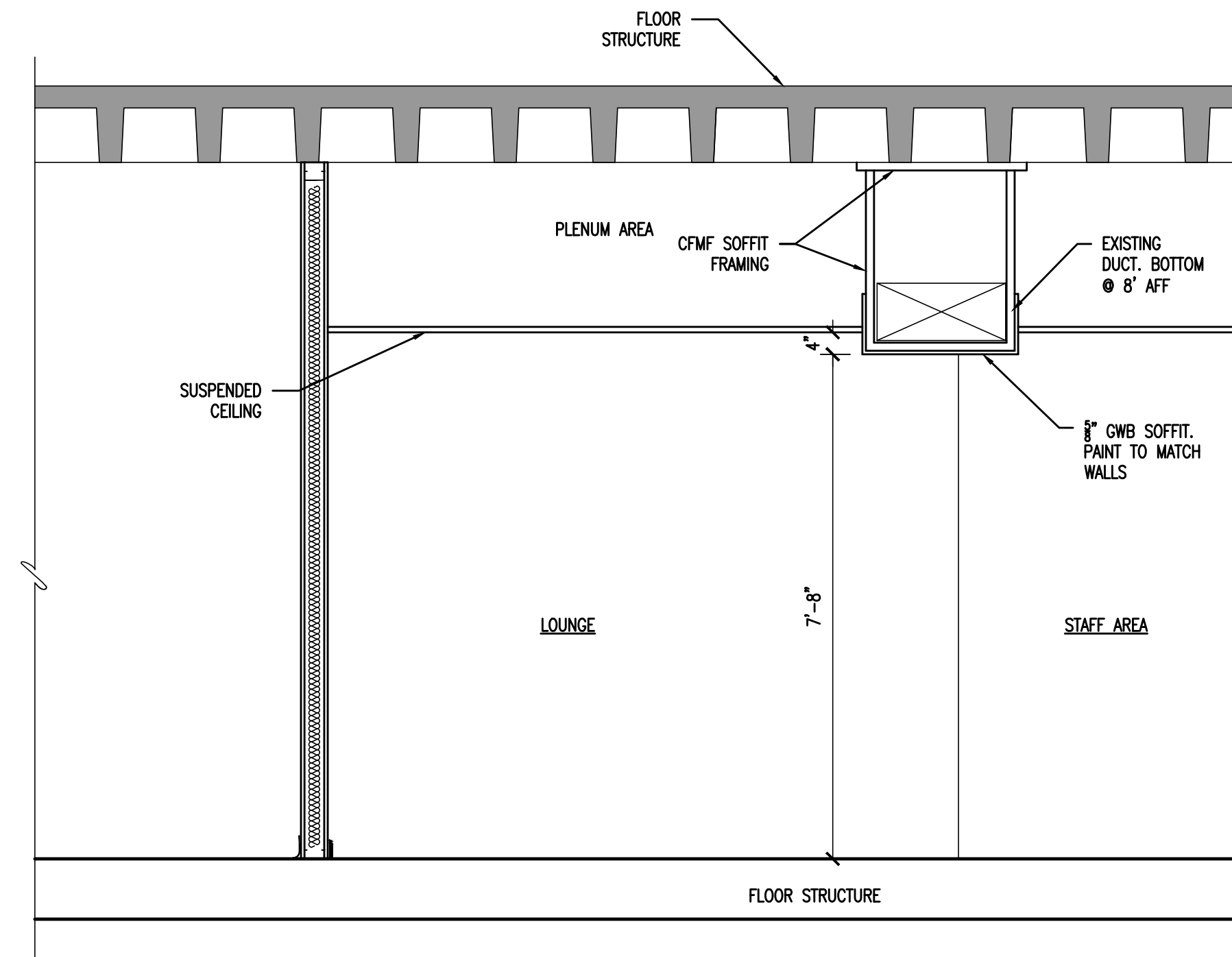
NO.	DESCRIPTION	DATE
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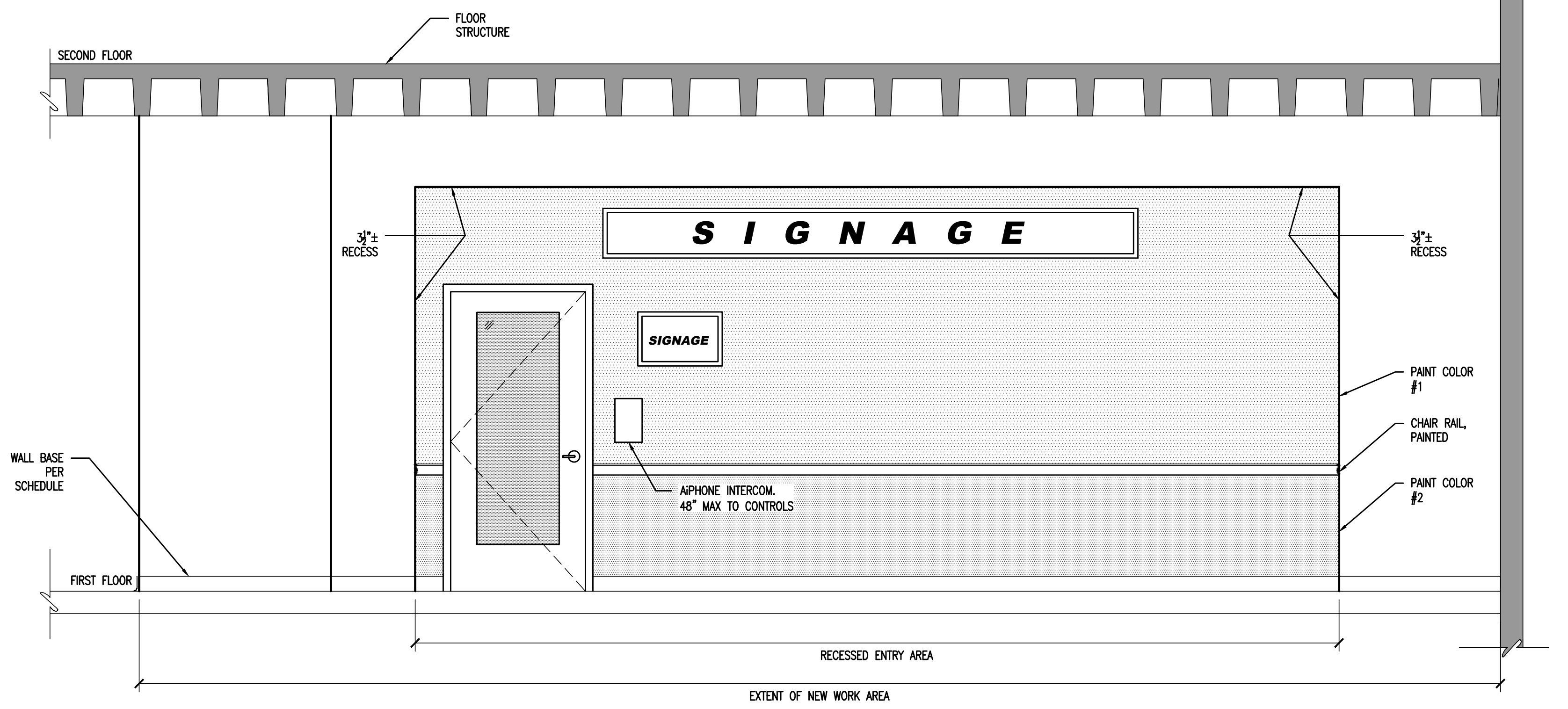
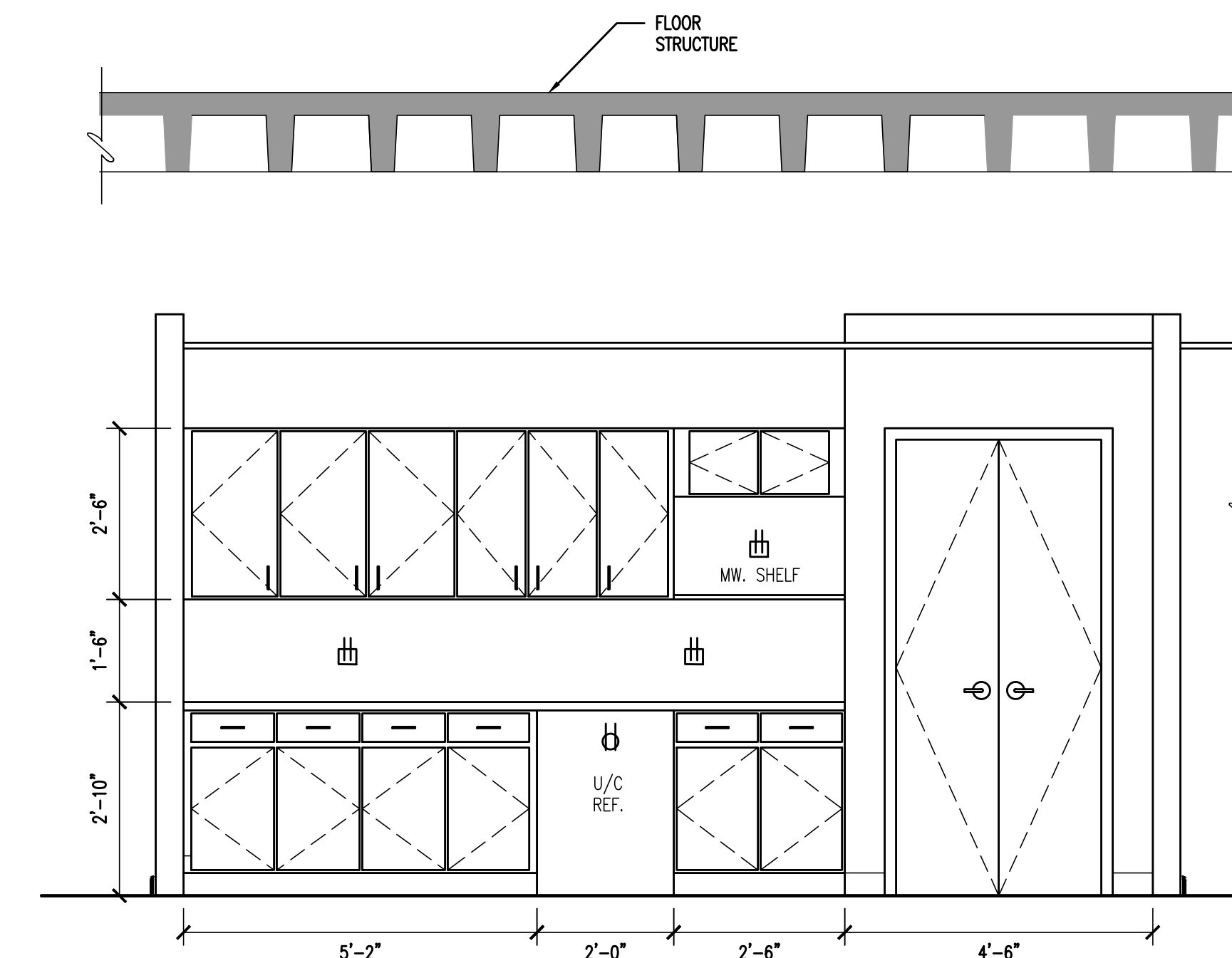
DETAILS

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A-4



ADJUSTABLE SHELF SYSTEM. BASIS OF DESIGN KNAPE AND VOGT 82/182 SERIES, 24" BRACKETS. SHELVING: PLASTIC LAMINATE WILSONART 4974K-07 PER MANUFACTURER: EACH PAIR OF BRACKETS MOUNTED ON A PAIR OF STANDARDS THAT ARE SPACED AT 16" HAVE A CAPACITY OF 400 LBS. LOAD CAPACITY IS NOT CHANGED FOR ARRANGEMENT AS SHOWN WITH 3 STANDARDS. (3 BRACKETS MOUNTED ON 3 STANDARDS SPACED AT 16" STILL HAVE A 400 LB CAPACITY). STANDARDS MUST BE ANCHORED INTO WOOD BLOCKING BETWEEN METAL STUDS.



ROOM FINISH SCHEDULE

ROOM #:	ROOM NAME:	FLOOR:	BASE:	WALLS:				CEILING	CEILING HEIGHT:	REMARKS:
				NORTH	EAST	SOUTH	WEST			
BASEMENT										
100	OFFICE	CPT	WOOD	PAINT	PAINT	PAINT	PAINT	ACT	8'-0"	1, 2, 3
101	STAFF OFFICE	CPT	WOOD	PAINT	PAINT	PAINT	PAINT	ACT	8'-0"	1, 2, 3
102	STORAGE	LVP	WOOD	PAINT	PAINT	PAINT	PAINT	ACT	8'-0"	1, 2, 3
103	LOUNGE	LVP	WOOD	PAINT	PAINT	PAINT	PAINT	ACT	8'-0"	1, 2, 3
104	STAFF	CPT	WOOD	PAINT	PAINT	PAINT	PAINT	ACT	8'-0"	1, 2, 3
105	CONFERENCE	CPT	WOOD	PAINT	PAINT	PAINT	PAINT	ACT	8'-0"	1, 2, 3
106	RECEPTION	CPT	WOOD	PAINT	PAINT	PAINT	PAINT	ACT	8'-0"	1, 2, 3
107	LIBRARY CIRCULATION	EXG.	COVE	PAINT	EXG.	EXG.	PAINT	EXG.	EXISTING	4, 5

LEGEND:
 VCT: VINYL COMPOSITION TILE ACT: ACOUSTICAL CEILING TILE CPT: CARPET TILE COVE: VINYL COVE BASE
 RUB: RUBBER BASE PT: PORCELAIN TILE LVT: LUXURY VINYL TILE

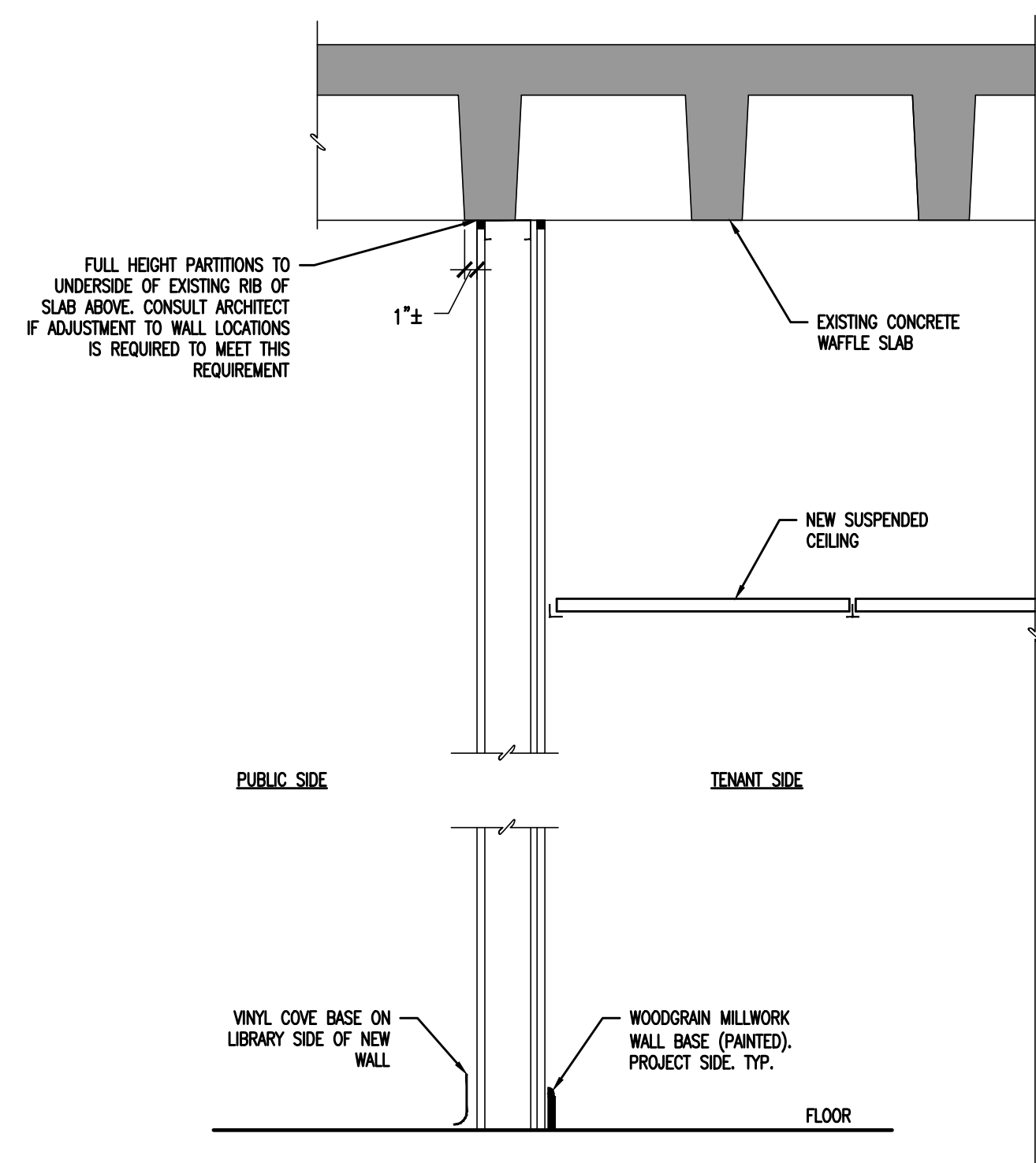
NOTE:
 1. EXISTING GYPSUM SURFACES DAMAGED DURING CONSTRUCTION TO BE CUT OUT AND REPLACE DAMAGED GYPSUM, SPACKLE AND SAND SMOOTH, PAINT TO MATCH EXISTING.
 2. PATCH AND REPAIR ALL WALLS / CEILINGS AND FLOORING AS A RESULT OF DEMOLITION AND/OR CONSTRUCTION, MATCH ADJACENT MATERIALS.
 3. WOODGRAIN MILLWORK WM 623 9/16" x 3 1/4" SOLID PINE WALL BASE. PAINT WITH SHERWIN WILLIAMS PURE WHITE 255-C1 SW7005 IN SEMI-GLOSS FINISH. PROVIDE QUARTER ROUND TRIM @ LVP FLOORING.
 4. COVE BASE TO MATCH EXISTING IN LIBRARY. SEE SPECIFICATION 096514 FOR MANUFACTURER AND STYLE.
 5. PAINT ALL NEW WALL SURFACES AND ALL EXISTING ADJACENT SURFACES AFFECTED BY WORK. COLOR TO MATCH EXISTING ADJACENT.

DOOR SCHEDULE

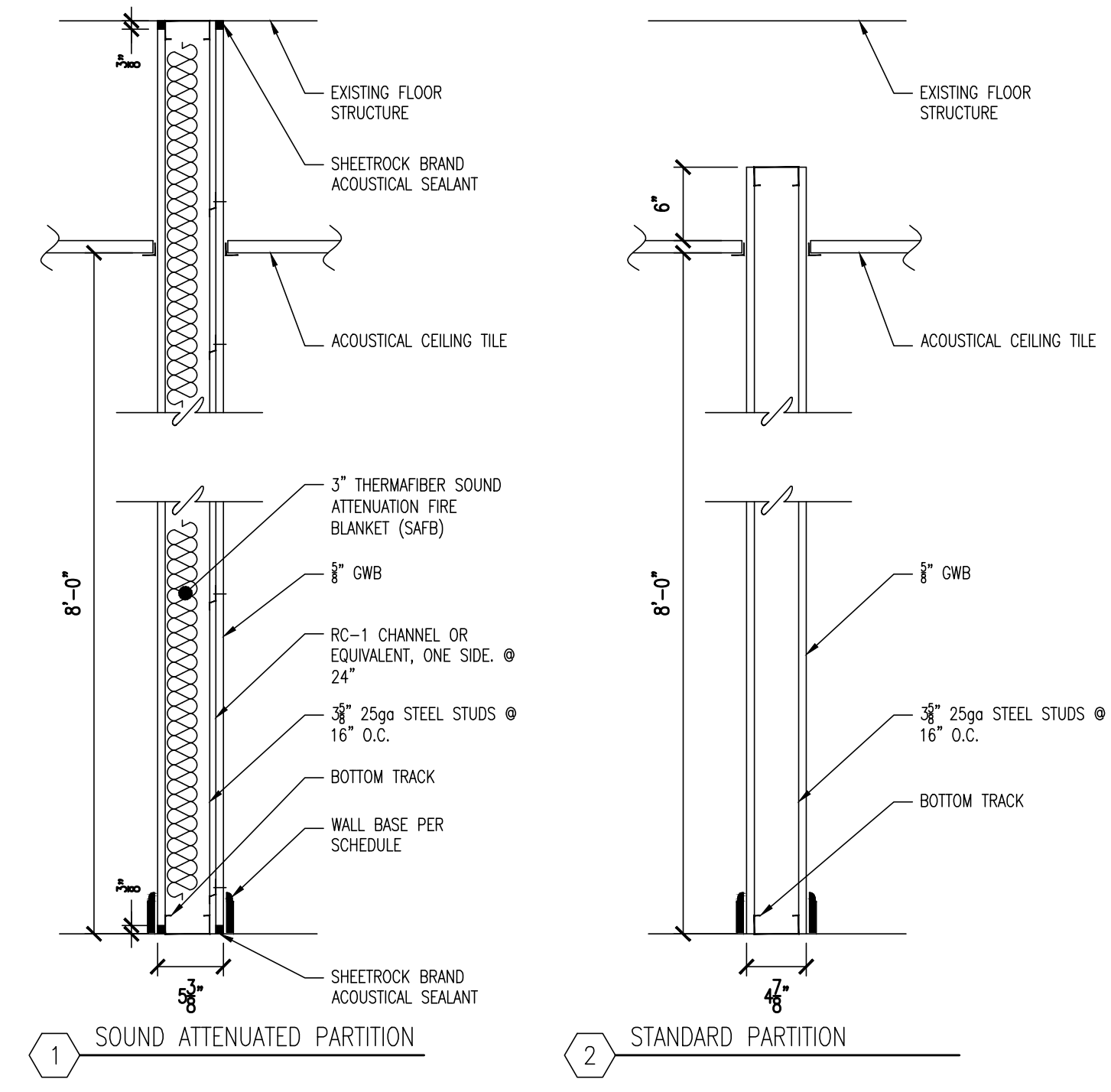
DOOR NUMBER	DOOR				FRAME			FRAME DETAIL	HARDWARE SET	DOOR THRESHOLD	FIRE RATING	REMARKS
	SIZE	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH					
100	3'-0" x 6'-8"	1	WD	POLY	1	HM	PM	1	100	-	-	CARD READER, ELECTRIC STRIKE, 4,
101	3'-0" x 6'-8"	1	WD	POLY	2	HM	PM	1	101	-	-	CARD READER, ELECTRIC STRIKE, 4, 5
102	3'-0" x 6'-8"	1	WD	POLY	1	HM	PM	1	101	-	-	CARD READER, ELECTRIC STRIKE, 4
103	3'-0" x 6'-8"	1	WD	POLY	1	HM	PM	1	102	-	-	CARD READER, ELECTRIC STRIKE, 4
104	3'-0" x 6'-8"	2	WD	POLY	2	HM	PM	1	103	-	-	5
105	3'-0" x 6'-8"	2	WD	POLY	2	HM	PM	1	104	-	-	5, 6
106	3'-0" x 6'-8"	2	WD	POLY	1	HM	PM	1	105	-	-	-
107	(2) 1'-6" x 6'-8"	3	WD	POLY	1	HM	PM	1	106	-	-	-

LEGEND:
 AL ALUMINUM CLR CLEAR ANODIZED RES RESCUE HARDWARE PB PANIC BAR MAR MARBLE RUB RUBBER PC POWDER COAT
 WD WOOD PM PAINTED METAL CL CLASSROOM LOCKET PRV PRIVACY LOCKET FF FACTORY FINISH FF FACTORY FINISH
 ME MATCH EXISTING EX EXISTING PAS PASSAGE LATCH STL STEEL FG ALL FIBERGLASS FG ALL FIBERGLASS
 POLY STAINED HM HOLLOW METAL ST STORE ROOM LOCKET IP PAINT FRP FIBER REINFORCED PLASTIC FRP FIBER REINFORCED PLASTIC

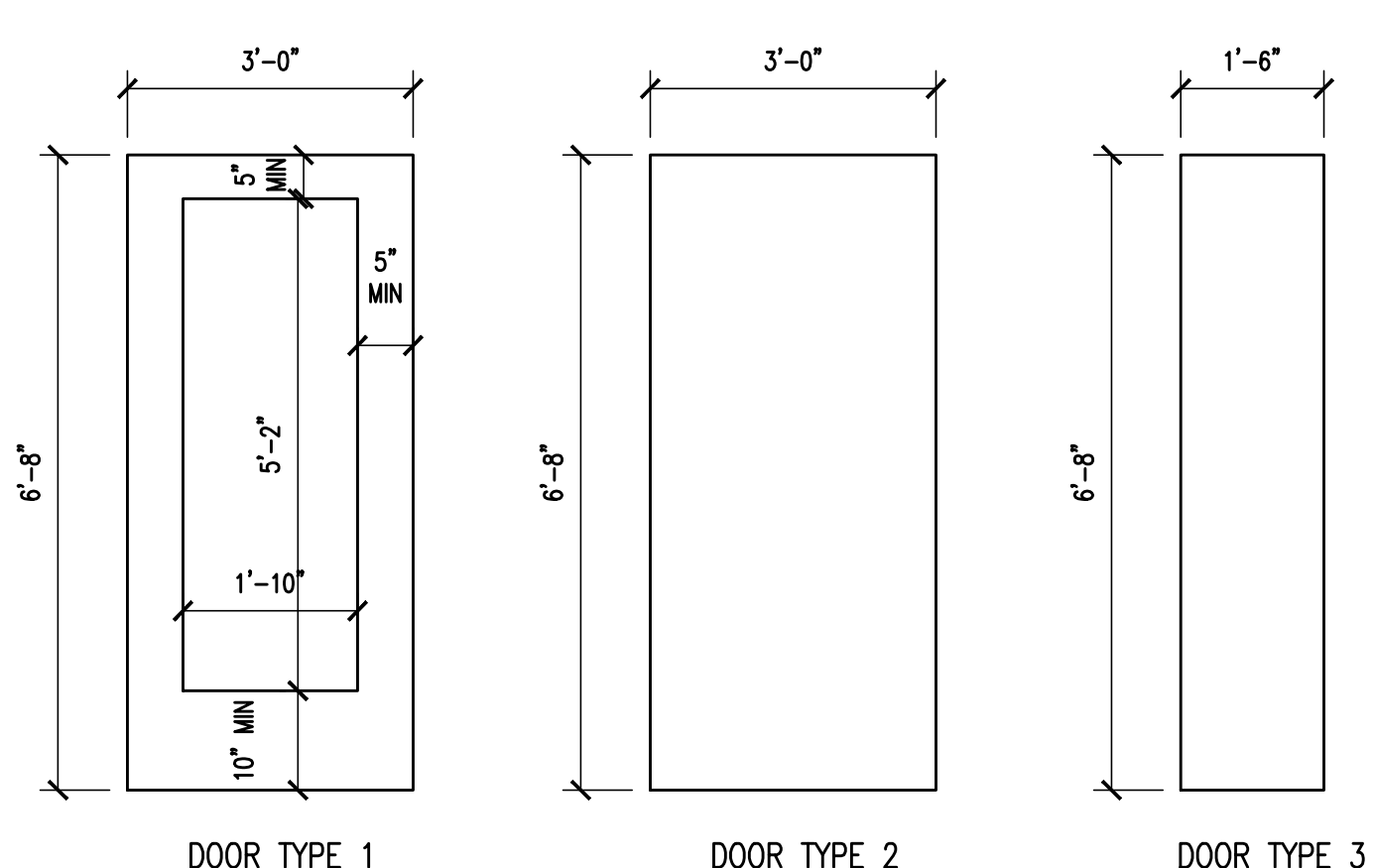
NOTES:
 1. ALL GLAZING FOR DOOR AND WINDOW SHALL BE TEMPERED PLATE GLASS UNLESS NOTED OTHERWISE
 2. WHERE INDICATED, FIRE RATING TO BE APPLIED TO BOTH DOOR AND FRAME CONSTRUCTION.
 3. GENERAL CONTRACTOR TO SUBMIT ALL DOOR FRAME & HARDWARE FOR ARCHITECT REVIEW AND APPROVAL
 4. KEYLESS ENTRY SYSTEM INCLUDES HARDWIRED ELECTRIC STRIKE AND REQUIRED POWER SUPPLY WITH COMPATIBLE EXIT DEVICE, HARDWIRED CARD READER WITH REQUIRED POWER SUPPLY TO ACTIVATE STRIKE, ENTRY HARDWARE, CYLINDER FOR MANUAL RETRACTION OF LATCH, ALL REQUIRED POWER AND LOW VOLTAGE WIRING TO ALLOW FOR COMPLETE OPERATION OF LOCK, INTERCONNECTED ACCESS SENTRY SYSTEM WITH LOCK RELEASE BUTTON WHERE NOTED.
 5. ADJACENT, INTEGRAL-FRAME SIDE LITE 1'-6" x 5'-0".
 6. PROVIDE MINI-BLINDS ON INTERIOR OF OFFICE DOOR WITH GLASS KIT.



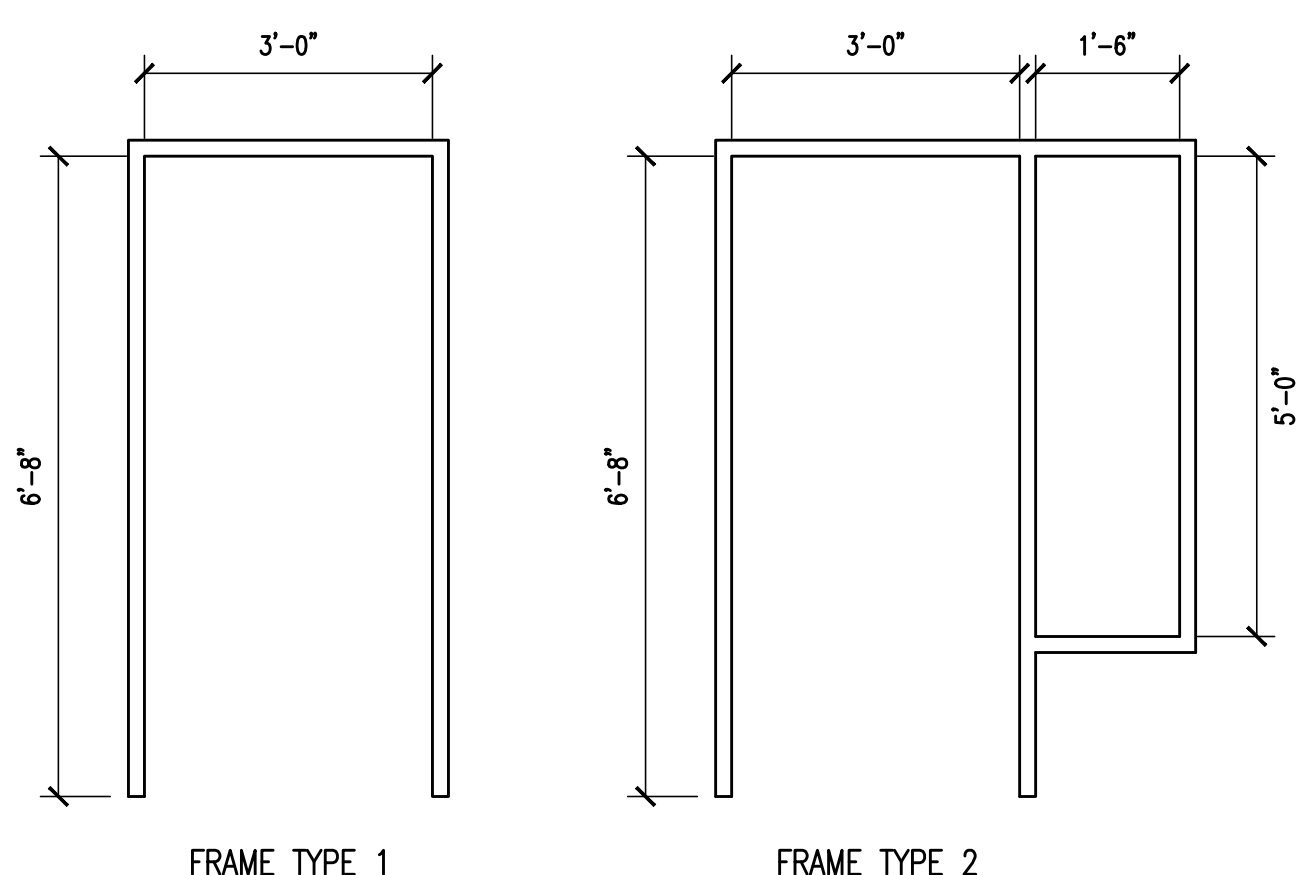
1 TENANT WALL TERMINATION
 SCALE: 1" = 1'-0"



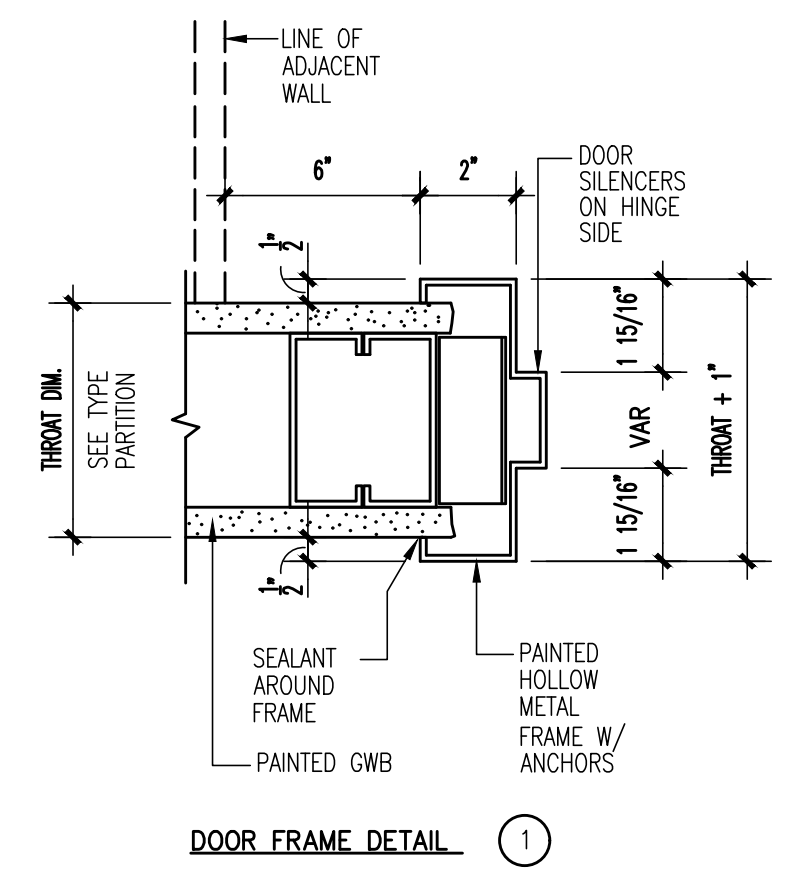
5 PARTITION TYPES
 SCALE: NOT TO SCALE



2 DOOR TYPES
 SCALE: NOT TO SCALE



3 FRAME TYPES
 SCALE: NOT TO SCALE



4 FRAME DETAIL
 SCALE: NOT TO SCALE



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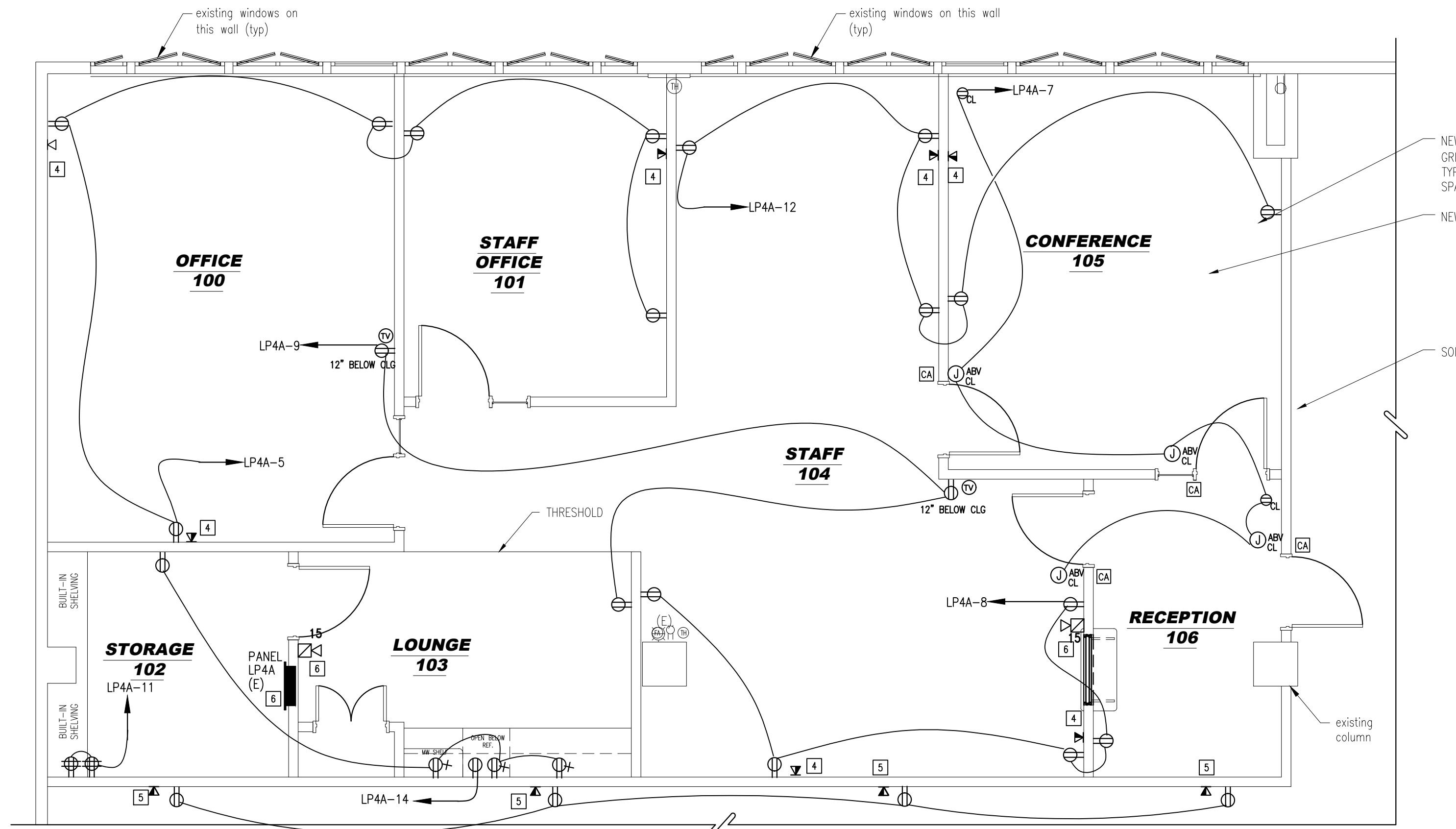
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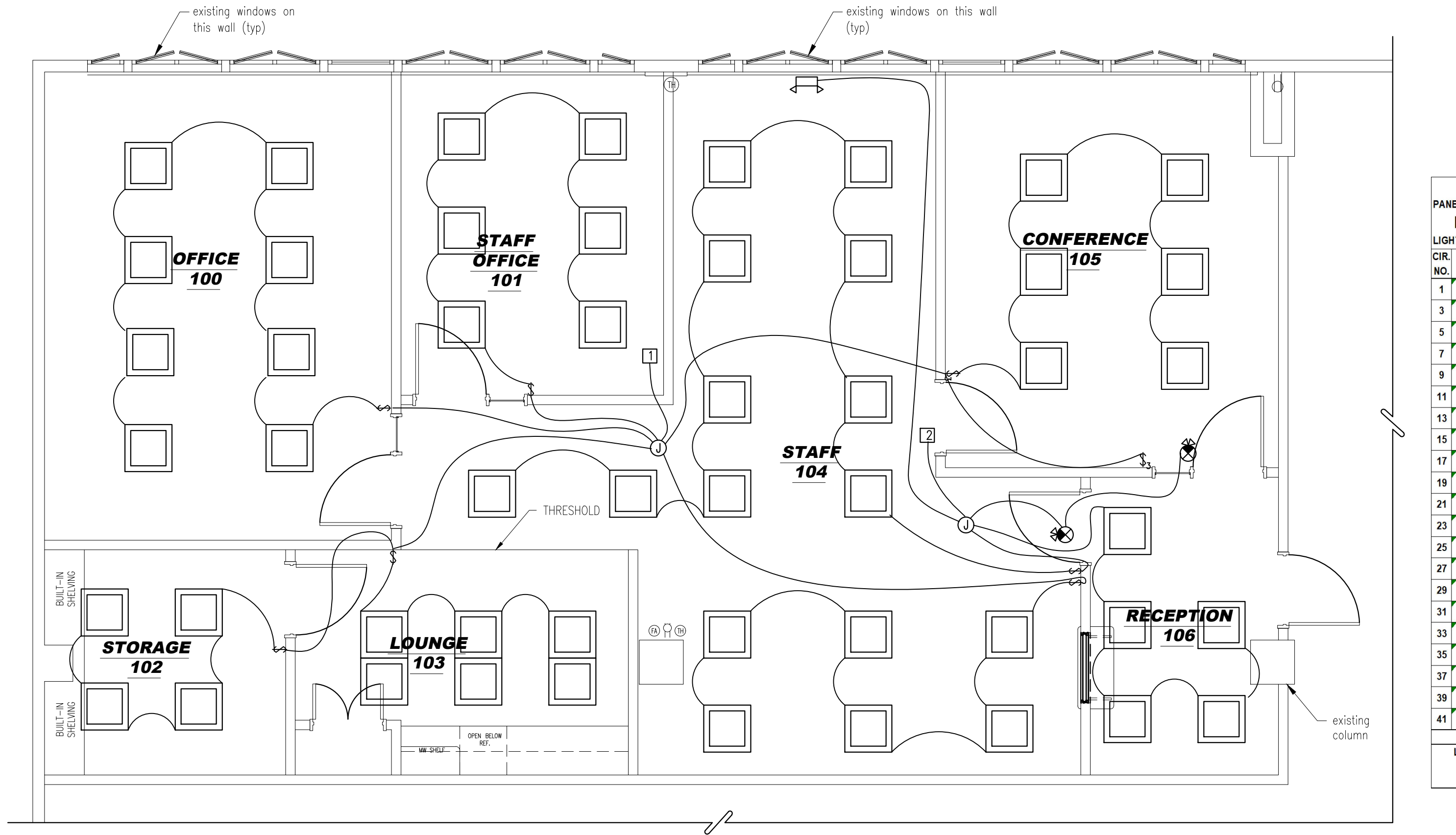
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DRAWING TITLE:
SCHEDULES AND DETAILS

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1 ELECTRICAL POWER PLAN
E-1.0 SCALE: 1/8" = 1'-0"



GENERAL REQUIREMENTS FOR ELECTRICAL WORK

- CONTRACTOR SHALL PROVIDE LABOR, MATERIAL, EQUIPMENT AND SERVICES FOR THE PROPER INSTALLATION AND OPERATION OF THE ELECTRICAL WORK AS INDICATED ON THE DRAWINGS AND AS SPECIFIED.
- LABOR, MATERIAL, EQUIPMENT AND SERVICE OBVIOUSLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF ELECTRICAL SYSTEMS, ALTHOUGH NOT SPECIFICALLY MENTIONED OR SHOWN, SHALL BE PROVIDED.
- ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE NATIONAL ELECTRIC CODE AND APPLICABLE LAWS, CODES AND REGULATIONS OF MUNICIPAL, COUNTY, STATE, FEDERAL AUTHORITIES, UTILITY COMPANIES, INSURANCE AGENCIES AND OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK.
CONTRACTOR AND ALL EMPLOYEES SHALL FAMILIARIZE THEMSELVES WITH OWNERS, STATE, LOCAL AND FEDERAL CONSTRUCTION SAFETY GUIDELINES PRIOR TO THE COMMENCEMENT OF WORK.
- OBTAIN, PAY FOR AND DELIVER PERMITS AND CERTIFICATES OF INSPECTION AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. DELIVER CERTIFICATES TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK. AN ELECTRICAL INSPECTION CERTIFICATE, FOR EACH CLASS OF WORK REQUIRING INSPECTION, MUST BE SUBMITTED PRIOR TO OR WITH THE FINAL PAYMENT INVOICE. CONTRACTOR MUST MAKE APPLICATION FOR THE INSPECTION, COORDINATE SAME, AND PAY THE REQUIRED INSPECTION FEE.
- BEFORE SUBMITTING HIS BID, TRADE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD. FAILURE TO DO SO SHALL NOT RELIEVE TRADE CONTRACTOR OF HIS OBLIGATION TO PAY FOR COSTS THAT MAY BE INCURRED DUE TO CONDITIONS THAT MAY AFFECT THE COST OF INSTALLING HIS WORK.
- DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. HOWEVER, CERTAIN RACEWAYS, BENDS, FITTINGS, BOXES, SYSTEM COMPONENTS, APPURTENANCES AND RELATED SPECIALTIES ARE NOT SHOWN, BUT SHALL BE PROVIDED TO INSURE A COMPLETE INSTALLATION.
- CONSULT THE DRAWINGS FOR EXACT LOCATION OF FIXTURES AND EQUIPMENT. WHERE SAME ARE NOT DEFINITELY LOCATED, OBTAIN THIS INFORMATION FROM THE ARCHITECT/ENGINEER.
- INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED OR SHOWN, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK, THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN REVIEW.
- NO CONSIDERATION OR ALLOWANCE SHALL BE GRANTED FOR ALLEGED MISUNDERSTANDING OF MATERIALS AND EQUIPMENT TO BE FURNISHED FOR WORK TO BE ACCOMPLISHED.
- WORK FURNISHED UNDER THE CONTRACT SHALL BE WARRANTED AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR, OR AS OTHERWISE SPECIFIED, FROM THE DATE OF FINAL ACCEPTANCE.
- MATERIAL AND EQUIPMENT IN THE WORK SHALL BE NEW, HOSPITAL GRADE, FIRST CLASS, THE BEST OF THEIR RESPECTIVE KINDS AND APPROPRIATE FOR THE APPLICATION AND ENVIRONMENT.
- EQUIPMENT OR APPARATUS FOR ANY ONE SYSTEM SHALL BE THE PRODUCT OF ONE MANUFACTURER. THE TERM "MANUFACTURER" SHALL BE UNDERSTOOD AS APPLYING TO A COMPANY OF ESTABLISHED REPUTATION IN THE MANUFACTURE OF A PARTICULAR PIECE OF EQUIPMENT OR APPARATUS FROM PRODUCTS OF HIS OWN MAKE OR OTHERS, AND WHO ASSUMES FULL RESPONSIBILITY FOR PRODUCTS USED IN SUCH EQUIPMENT OR APPARATUS. THE MANUFACTURER MUST SUBMIT EVIDENCE OF FIVE (5) YEARS OR MORE MANUFACTURING EXPERIENCE IN THE PRODUCTION OF THESE PRODUCTS.
- MATERIAL OR EQUIPMENT SPECIFIED BY MANUFACTURER, BRAND NAME, TYPE, OR CATALOG NUMBER ARE DESIGNED TO ESTABLISH STANDARDS OF DESIRED QUALITY, STYLE, PERFORMANCE, ELECTRICAL, MECHANICAL AND PHYSICAL CHARACTERISTICS, AND DIMENSIONS.
- WHERE CABLE PASSES THROUGH FIRE RATED STRUCTURES PROVIDE FIREPROOF FITTINGS.
- RACEWAYS SHALL BE CONCEALED IN THE CONSTRUCTION EXCEPT AS OTHERWISE SPECIFIED OR SHOWN.
- WHERE CONDUIT TERMINATES IN A CABINET, BOX OR AUXILIARY GUTTER, THE CONDUCTORS SHALL BE PROTECTED BY AN INSULATING BUSHING. LOCKNUTS SHALL BE PROVIDED BOTH INSIDE AND OUTSIDE THE ENCLOSURE.
- A PULL WIRE SHALL BE INSTALLED IN EMPTY RACEWAYS. PULL WIRE SHALL BE 200 POUND TEST NYLON. BOTH ENDS SHALL BE IDENTIFIED BY MEANS OF LABELS OR TAGS, READING "PULL WIRE" AND GIVING THE ORIGIN AND TERMINATION POINTS.
- GENERALLY, WIRING (OTHER THAN EMERGENCY) SHALL BE DONE WITH INSULATED COPPER CONDUCTORS IN CONTINUOUSLY GROUNDED ELECTRICAL METALLIC TUBING (EMT). CONDUCTORS AND RACEWAYS SHALL BE HOSPITAL GRADE, INSTALLED CONCEALED IN THE CONSTRUCTION EXCEPT IN MECHANICAL OR ELECTRICAL SPACES, OPEN CONSTRUCTION AREAS OR WHERE SHOWN ON THE DRAWINGS.
LINE VOLTAGE AND LOW VOLTAGE WIRING SHALL BE RUN IN SEPARATE RACEWAYS.
ALL EMERGENCY WIRING SHALL BE INSTALLED IN NONFLEXIBLE METAL RACEWAY PER NATIONAL ELECTRICAL CODE ARTICLE 517.30.C.3. USE HOSPITAL GRADE GRS CONDUIT, IMC CONDUIT, ETC. PER NATIONAL ELECTRICAL CODE REQUIREMENTS. NO OTHER WIRING FOR ANY OTHER SYSTEMS SHALL BE INSTALLED WITHIN THE SAME RACEWAYS AS EMERGENCY WIRING.

TELE/DATA NOTES:

- ALL TELEPHONE AND DATA SYSTEMS WORK MUST COMPLY WITH ANSI/TIA/EIA 569A COMMERCIAL BUILDING STANDARDS FOR TELECOMMUNICATIONS PATHWAYS AND SPACES.
- ALL RECESSED AND SURFACE MOUNTED BOXES SHALL BE FURNISHED WITH A SINGLE LENGTH OF 1" DIAMETER HOSPITAL GRADE EMT FIXED TO THE TOP OF THE BOX AND EXTENDING A MINIMUM OF 6" ABOVE THE NEAREST ACCESSIBLE CEILING LEVEL.
- BOTH OPEN ENDS OF THE EMT SHALL BE FURNISHED WITH A 1" DIAMETER SET SCREW CONNECTOR AND THREADED PLASTIC BUSHING.
- EACH LENGTH OF EMT SHALL BE FURNISHED WITH A PULL STRING EXTENDING AT LEAST 18" BEYOND EACH OPEN END OF EMT.

PANEL NO. LP4A (EXISTING)		NEUTRAL BUS: 100%				VOLTAGE: 208Y/120V, 1PH, 3W & G					
LIGHTING AND RECEPTACLE PANEL SCHEDULE		GROUND BUS: YES				MAINS: 125A					
CIR. NO.	DESCRIPTION	WIRE SIZE	BREAKER AMPS	POLES	A (VA)	B (VA)	POLES	BREAKER AMPS	WIRE SIZE	DESCRIPTION	CIR. NO.
1	SPARE	#12	20	1	0	0	1	20	#12	SPARE	2
3	SPARE	#12	20	1	0	0	1	20	#12	SPARE	4
5	RECEPTACLES	#12	20	1	900	0	1	20	#12	SPARE	6
7	SECURITY RECEP	#12	20	1	1500	1500	1	20	#12	RECEPTACLES	8
9	RECEPTACLES	#12	20	1	1500	1500	1	20	#12	RECEPTACLES	10
11	IT RECEP	#12	20	1	1500	1500	1	20	#12	RECEPTACLES	12
13	SPARE				800	0	1	20	#12	REFRIGERATOR	14
15	SPARE				0	0				SPARE	16
17	SPARE				0	0				SPARE	18
19	SPARE				0	0				SPARE	20
21	NOT USED				0	0				NOT USED	22
23	NOT USED				0	0				NOT USED	24
25	NOT USED				0	0				NOT USED	26
27	NOT USED				0	0				NOT USED	28
29	NOT USED				0	0				NOT USED	30
31	NOT USED				0	0				NOT USED	32
33	NOT USED				0	0				NOT USED	34
35	NOT USED				0	0				NOT USED	36
37	NOT USED				0	0				NOT USED	38
39	NOT USED				0	0				NOT USED	40
41	NOT USED				0	0				NOT USED	42
SUB TOTAL					4700	5300				SUB TOTAL	

- SHEET NOTES**
- CONNECT TO THE CLOSEST NORMAL LIGHTING CIRCUIT
 - CONNECT TO THE CLOSEST EMERGENCY LIGHTING CIRCUIT
 - RELOCATE EXISTING EXISTING PANEL TO THIS LOCATION
 - PROVIDE (2) PAIRS OF CAT 6 CABLE FROM STORAGE CLOSET #102
 - PROVIDE (2) PAIRS OF CAT 6 CABLE FROM MAIN IDF. CONFIRM LOCATION WITH OWNER PRIOR TO BIDDING
 - EXISTING DEVICE TO BE REINSTALLED

LEGEND: ** 6mA GROUND FAULT CIRCUIT BREAKER
* 30mA GROUND FAULT CIRCUIT BREAKER
LOCK-ON CIRCUIT BREAKER HANDLE

CONNECTED LOAD 10 KVA
DEMAND LOAD 6.8 KVA
MIN AMPS 33 AMPS 1 PH.

REMARKS:

BACH Associates, PC
ENGINEERS • ARCHITECTS • PLANNERS

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NOT FOR CONSTRUCTION
FOR REVIEW ONLY

STEVEN M. BACH, PE, RA, PP, CME
NJ PROFESSIONAL ENGINEER No. GE 41507
NJ REGISTERED ARCHITECT No. AI 14872
NJ PROFESSIONAL PLANNER No. LI 05557

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:
CAMDEN COUNTY LIBRARY SYSTEM
M. ALLAN VOGELSON
LIBRARY RENOVATION
203 LAUREL ROAD
VOORHEES, NEW JERSEY 08043
CAMDEN COUNTY, NEW JERSEY

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REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUE FOR BID	11-14-22

DRAWING TITLE:
ELECTRICAL FLOOR PLANS

JOB NO: CCA2022-01
DESIGNED BY: DMS
DATE: 10-5-22
DRAWN BY: AAW
SCALE: AS NOTED
CHECKED BY: SMB
DRAWING NUMBER:

E-1.0



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Table with columns: NO., DESCRIPTION, DATE, REVISIONS

DRAWING TITLE:

ELECTRICAL SPECIFICATIONS

Table with columns: JOB NO., DESIGNED BY, DATE, DRAWN BY, SCALE, CHECKED BY, AS NOTED, SMG

FEEDER SCHEDULE table with columns: 4, TYPE, 1, 2, 3, 4 and rows for various conductor sizes and types.

ALUMINUM FEEDER SCHEDULE table with columns: 4, TYPE, 1, 2 OR 3, 4, 4W and rows for aluminum conductor sizes.

THE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE IN NATURE ONLY... THE LOCATIONS SHOWN ON THE WORKING DRAWINGS ARE APPROXIMATE AND THE ELECTRICAL CONTRACTOR SHALL USE MANUFACTURERS' SHOP DRAWINGS FOR ROUGHING IN ACTUAL CONSTRUCTION.

SUPERVISION OF SYSTEMS INSTALLATION ALL WORK ON MAJOR SYSTEMS SUCH AS THE SOUND, CLOCK, EMERGENCY GENERATOR AND FIRE ALARM SYSTEM SHALL BE PERFORMED UNDER THE SUPERVISION OF FACTORY ACCREDITED ENGINEERS...

INSTRUCTION AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL INSTRUCT THE PERSONNEL WHO WILL HAVE CHARGE OF THE EQUIPMENT IN THE CARE, ADJUSTMENT AND OPERATION OF ALL PARTS OF ELECTRICAL SYSTEM.

PROJECT COMPLETION AT THE COMPLETION OF THE WORK, ALL PARTS OF THE ELECTRICAL SYSTEM SHALL BE TESTED FOR GROUNDS AND OTHER DEFECTS... ALL OVERLOAD DEVICES INCLUDE THE OVERLOAD TRIP COILS OF THE STARTERS AND AUXILIARIES THAT ARE ADJUSTED FOR THE LOAD CONTROLLED AND NOT THE MOTOR SIZE.

GUARANTEE THIS CONTRACTOR SHALL GUARANTEE ALL MATERIAL, EQUIPMENT AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE BY THE ARCHITECT AND OWNER...

BIDDING PROCEDURE ALL BIDDERS SHALL SUBMIT FOR THE ELECTRICAL CONSTRUCTION OF THIS PROJECT AS OUTLINED IN THE FOLLOWING PARAGRAPHS. THESE BIDS SHALL BE ENTERED IN THE PROPER SPACES OF THE "PROPOSAL FORM."

AS-BUILT DRAWING UPON COMPLETION PRIOR TO TURN OVER CONTRACTOR SHALL, PROVIDE CADD DRAWING SHOWING ANY DEVIATIONS FROM CONTRACT AND ALL CIRCUITING IN AN AS-BUILT CONDITION.

END OF SPECIFICATION

MOTOR CONNECTIONS EACH SOCKET IN MULTIPLE SOCKET FIXTURES SHALL BE PROVIDED WITH A LAMP OF PROPER TYPE AND WATTAGE TO CONFORM AS NEAR AS POSSIBLE WITH THE TOTAL WATTAGE LISTED ON THE DRAWINGS...

EACH CONTRACTOR WILL PROVIDE NECESSARY STARTERS AS REQUIRED FOR OPERATION OF THE MOTORS PROVIDED UNDER THEIR CONTRACT...

THIS ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DIRECTION OF ROTATION OF ALL MOTORS AND SHALL CHANGE CONNECTIONS AS REQUIRED TO PROVIDE FOR PROPER ROTATION.

WHERE MOTORS ARE ARRANGED ON RAILS, OR ARE OTHERWISE ADJUSTABLE FOR PROPERLY TENSIONING BELT DRIVES, A PIECE OF FLEXIBLE GALVANIZED OR SHERARDIZED CONDUIT WITH SUITABLE FITTINGS AND NOT OVER 18" LONG WILL BE PERMITTED BETWEEN THE END OF THE RIGID CONDUIT OR "EMT" AND THE MOTOR TERMINAL BOX...

LIGHTING FIXTURES FIXTURE NUMBERS, AS SPECIFIED, HAVE BEEN TAKEN FROM THE CATALOGS OF FIXTURE MANUFACTURERS.

METAL GAUGE OF FIXTURES SHALL BE HEAVY GAUGE AND FIXTURES MANUFACTURED OF LIGHT GAUGE METAL WITH EXCESSIVE FLEXIBILITY WILL NOT BE ACCEPTABLE.

FINISH: ALL METAL PARTS OF FIXTURES SHALL BE PAINTED. INTERIOR REFLECTIVE SURFACES SHALL BE OF BAKED-ON WHITE ENAMEL UNLESS FIXTURE SPECIFIED IS NORMALLY FURNISHED WITH POLISHED REFLECTIVE METAL SURFACES.

A FIXTURE SHALL BE PROVIDED FOR EACH AND EVERY OUTLET INDICATED WHETHER THE TYPE HAS BEEN GIVEN OR OMITTED, AND THE FIXTURE MUST BE COMPATIBLE. INCANDESCENT FIXTURES SHALL BE FITTED WITH 130 VOLT LAMPS OF PROPER TYPE AND CAPACITY.

DISCONNECT SWITCHES FUSED AND NO-FUSED DISCONNECT SWITCHES SHALL BE FURNISHED AT LOCATIONS SHOWN ON PLAN OR FOR EQUIPMENT MOUNTED IN REMOTE AREAS AS REQUIRED BY CODE.

ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE GENERAL CONTRACTOR OF EXACT LOCATIONS WHERE RECESSED FIXTURES AND BOXES WILL BE INSTALLED...

INSTALLATION THE CONTRACTOR SHALL PROVIDE AND INSTALL SUSPENSION STUD "SCISSOR CLIPS" ON THE "T" BAR CONSTRUCTION FOR INSTALLATION OF SURFACE-MOUNTED FLUORESCENT FIXTURES.

FLUORESCENT FIXTURES USED FOR LIGHT IN CEILING SHALL HAVE ADDITIONAL SUPPORT AS REQUIRED AND SHALL HAVE ALL CLIPS INSTALLED TO ENSURE RIGID INSTALLATION.

EQUIPMENT HOOK UP THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR AND MATERIAL REQUIRED FOR THE FINAL CONNECTION, COMPLETE HOOK UP AND WIRING OF ALL EQUIPMENT FURNISHED UNDER OTHER CONTRACTORS.

FIXTURES INSTALLED IN OPEN STEEL AREAS SHALL BE INSTALLED ON "KINDORF" SYSTEM AS MANUFACTURED BY STEEL CITY COMPANY OR APPROVED EQUAL.

OTHER FIXTURES SHALL BE RIGIDLY SUPPORTED FROM MAIN BUILDING STRUCTURE WITH APPROVED SUPPORTING DEVICES.

THE ELECTRICAL CONTRACTOR SHALL SPACE ALL LIGHTING FIXTURES EVENLY ON CENTERS OR JOINTS OF CEILING TILES OR OTHER CONSTRUCTION.

TUMBLER SWITCHES SHALL BE THE A.C. HEAVY DUTY, 120/277 VOLTS, FLUSH TOGGLE-TYPE SWITCH RATED AT 20 AMPERES AND U.L. APPROVED... COMMUNICATION, SOUND AND OTHER LOW-VOLTAGE WIRING SHALL BE OF SIZE AND INSULATION RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT BEING SERVED.

CONVENIENCE OUTLETS RECEPTACLES FOR CONVENIENCE OUTLETS SHALL MATCH EXISTING IN TYPE, MANUFACTURER AND COLOR.

AT EACH SPECIAL PURPOSE OUTLET SHOW, FURNISH AND INSTALL A SUITABLE RECEPTACLE WITH A STAINLESS STEEL PLATE. OUTLETS RATED FROM 1,600 TO 3,000 WATTS SHALL BE PROVIDED WITH 50 AMPERE RECEPTACLES.

RECEPTACLES OUTLETS FOR EQUIPMENT RATED OVER 10,000 WATTS SHALL BE CONNECTED THROUGH FUSED SAFETY SWITCHES WITHOUT RECEPTACLES.

WALL PLATES SWITCH, RECEPTABLES, PUSH BUTTONS, BLANK TELEPHONE AND OTHER OUTLET PLATES SHALL MATCH EXISTING IN TYPE, MANUFACTURER AND COLOR.

AL PLACING SHALL BE DONE IN OUTLET BOXES, JUNCTION BOXES AND IN THE CONDUIT.

RACEWAY ACCESSORIES ALL OUTLET BOXES SHALL BE OF GALVANIZED STEEL, AT LEAST 1-1/2" DEEP AND CAREFULLY SIZED AS TO THE NUMBER OF CONDUCTORS AND DEVICES AND ACCORDING TO APPROPRIATE SECTIONS OF THE NEC.

OUTLET AND SWITCH BOXES OUTLET AND SWITCH BOXES SHALL BE OF PROPER TYPE AND SIZE AS REQUIRED BY THE NEC AND SHALL BE SECURED FIRMLY IN PLACE AND SET TRUE AND SQUARE AND FLUSH WITH THE FINISHED SURFACE.

CONCEALED BOXES SHALL BE OF PRESSED STEEL NOT LESS THAN 4" OCTAGON OR SQUARE, ZINC COATED AND PROVIDED WITH THE PROPER SIZE KNOCKOUTS.

WHEN OUTLETS ARE REQUIRED IN TILE CONSTRUCTION, RECTANGULAR BOXES MADE FOR THE PURPOSE SHALL BE PROVIDED.

THE CONTRACTOR SHALL PROVIDE AND INSTALL SUSPENSION STUD "SCISSOR CLIPS" ON THE "T" BAR CONSTRUCTION FOR INSTALLATION OF SURFACE-MOUNTED FLUORESCENT FIXTURES.

FLUORESCENT FIXTURES USED FOR LIGHT IN CEILING SHALL HAVE ADDITIONAL SUPPORT AS REQUIRED AND SHALL HAVE ALL CLIPS INSTALLED TO ENSURE RIGID INSTALLATION.

SURFACE-MOUNTED INCANDESCENT FIXTURES SHALL HAVE THE BASE SLOTTED TO RECEIVE THE "T" BAR TILE AND FIT SNUG AGAINST THE CEILING.

RECESSED DOWNLIGHT FIXTURE HOUSINGS SHALL BE FREELY SUPPORTED THROUGH THE USE OF CHANNELS AND ADJUSTED TO PUT FRAME FLUSH WITH FINISHED CEILING.

THE ARCHITECT AND THE OWNER RESERVE THE RIGHT TO CHANGE THE LOCATION OF ANY OUTLET BEFORE IT HAS BEEN INSTALLED, WITHOUT ADDITIONAL COST TO THE OWNER.

TELEPHONE, TELEVISION AND MISCELLANEOUS EMPTY CONDUIT SYSTEMS

THE CONTRACTOR SHALL FURNISH MIDDING AND PULLSTRING AT EACH TELEPHONE/DATA OUTLET SHOWN ON PLAN.

ELECTRICAL SPECIFICATIONS (CONTINUED)

ALL BURRS, SHARP EDGES AND DEFECTS BEFORE WIRE IS PULLED. FIXTURE CONDUCTORS SHALL BE TYPE THHN FROM THE ADJACENT JUNCTION BOX.

ALL WIRE AND CABLE SHALL BE MARKED WITH IDENTIFICATION IN ACCORDANCE WITH THE REGULATIONS OF THE U.L.

THE CONTRACTOR SHALL REFER TO THE GENERAL HEATING-VENTILATING AND PLUMBING SPECIFICATIONS AND INCORPORATE ALL ELECTRICAL WORK REQUIRED BY THESE CONTRACTS INTO THIS CONTRACT.

FISH LINE THE CONTRACTOR SHALL INSTALL, IN EACH EMPTY UNDERGROUND AND INTERIOR CONDUIT, ONE (1) NYLON FISH LINE FOR THE FUTURE INSTALLATION OF WIRE AND CABLE.

SPICES - SECONDARY ALL SPLICING SHALL BE DONE IN OUTLET BOXES, JUNCTION BOXES AND IN THE CONDUIT.

WALL PLATES SWITCH, RECEPTABLES, PUSH BUTTONS, BLANK TELEPHONE AND OTHER OUTLET PLATES SHALL MATCH EXISTING IN TYPE, MANUFACTURER AND COLOR.

RACEWAY ACCESSORIES

ALL OUTLET BOXES SHALL BE OF GALVANIZED STEEL, AT LEAST 1-1/2" DEEP AND CAREFULLY SIZED AS TO THE NUMBER OF CONDUCTORS AND DEVICES AND ACCORDING TO APPROPRIATE SECTIONS OF THE NEC.

OUTLET BOXES FOR WIRING DEVICES IN FINISHED WALLS SHALL BE ONE PIECE STANDARD GANG TYPE OF SIZE TO ACCOMMODATE NUMBER OF DEVICES NOTED. BOXES SHALL HAVE PLASTER COVERS TO BRING BOXES' OPENINGS FLUSH WITH FINISHED WALL AND NOT MORE THAN 1/4" BACK OF SAME.

BOXES FOR FLOOR OUTLETS SHALL BE CAST-METAL, THREADED CONDUIT-ENTRANCE, WATERPROOF TYPE WITH MEANS FOR ADJUSTING COVERPLATE TO FINISH FLOOR LEVEL.

DIMENSIONS FOR OUTLET BOXES SHOWN IN A GENERAL MANNER, GIVEN THE SCHEDULE, WILL BE PERMITTED SLIGHT ADJUSTMENT TO SATISFY BLOCK CONSTRUCTION ON THE PROJECT.

OUTLET AND FLOOR BOXES SHALL BE AS MANUFACTURED BY RACO OR APPROVED EQUAL.

JUNCTION AND PULL BOXES NOT OVER 100 CUBIC INCH SHALL BE STANDARD OUTLET BOXES.

JUNCTION BOXES SHALL NOT BE LESS THAN 1-1/2" BY 4" SQUARE. REMOVABLE COVERS SHALL BE ACCESSIBLE AT ALL TIMES.

BOXES SHALL BE ACCESSIBLE, HOWEVER, IF ON CONCEALED CONDUITS, THEY SHALL BE SET WITH COVERS FLUSH WITH FINISH PLASTER LINE.

ALL SWITCHES MOUNTED VERTICALLY SHALL HAVE THE "ON" POSITION AT THE TOP AND ALL HORIZONTALLY MOUNTED SWITCHES SHALL HAVE THE "ON" POSITION AT THE LEFT.

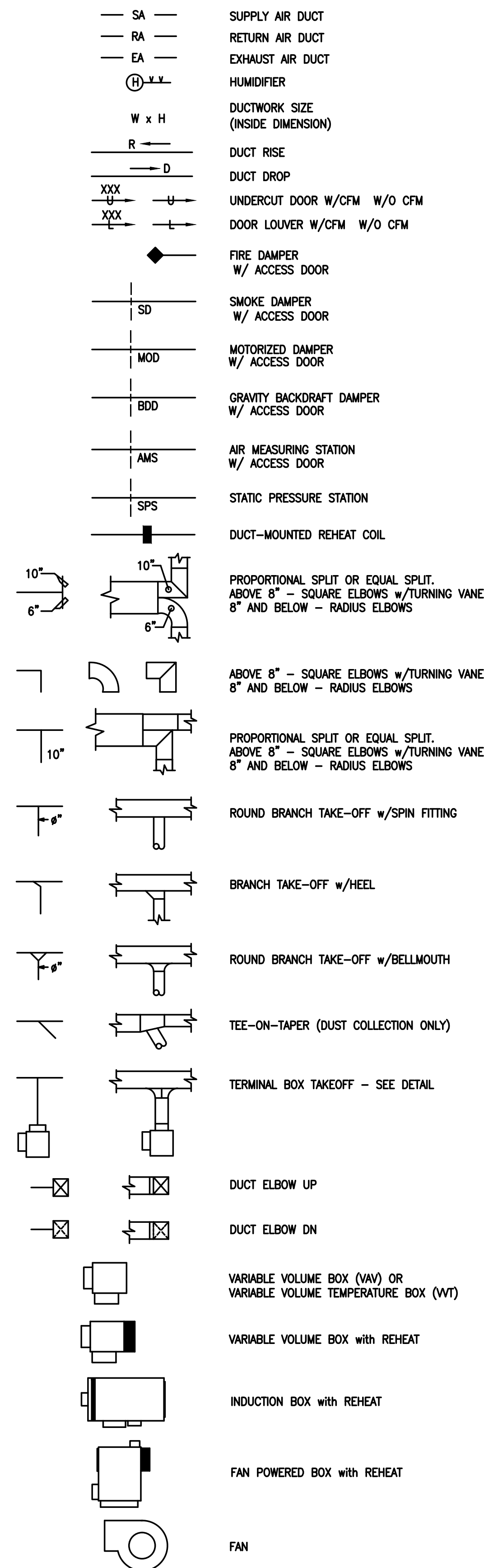
(D)	DEMOLISH
(E)	EXISTING
(F)	REFURBISH
(N)	NEW
(R)	RELOCATE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
ACFM	ACTUAL CUBIC FEET PER MINUTE
AD	ACCESS DOOR
AF	AIRFOIL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AL	ACOUSTICAL LINING
AMB	AMBIENT
AMS	AIR FLOW MEASURING STATION
AO	ANALOG OUTPUT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
ASC	APPLICATION SPECIFIC CONTROLLER
ATC	AUTOMATIC TEMPERATURE CONTROL
AVG	AVERAGE
AWT	AVERAGE WATER TEMPERATURE
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BDS	BLOWDOWN SEPARATOR
BFP	BACK FLOW PREVENTOR OR BOILER FEED PUMP
BFU	BOILER FEED UNIT
BHP	BRAKE HORSEPOWER OR BOILER HORSEPOWER
BI	BACKWARD INCLINED
BI	BINARY INCLINED
BLD	BUILDING
BO	BINARY OUTPUT
BOD	BOTTOM OF DUCT OR BASIS OF DESIGN
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BT	BLOWDOWN TANK
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
C	CONVECTOR
CAP	CAPACITY
CB	CONCRETE BASE
CC	COOLING COIL
CCO	CAPPED CURB OPENING
CD	CEILING DIFFUSER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CL	COOLING
CLG	CEILING
CMPR	COMPRESSOR
CO	CLEAN OUT
COL	COLUMN
CONC	CONCENTRATION OR CONCRETE
COND	CONDENSATE (STEAM OR COOLING COIL)
CONN	CONNECTION
CONT	CONTINUATION
CP	CONDENSATE PUMP
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	COEFFICIENT OF CAPACITY
D	DROP
DA	DEAERATOR
DB	DRY BULB
DC	DRY COOLER
DDC	DIRECT DIGITAL CONTROL
DEFL	DEFLECTION
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DISCH	DISCHARGE
DI	DIGITAL INPUT
DN	DOWN
DO	DIGITAL OUTPUT
DR	DRAIN
DS	DISCONNECT SWITCH
DWG	DRAWING
EA	EXHAUST AIR OR EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECH	ELECTRIC CEILING HEATER
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
ELEC	ELECTRIC
ELEV	ELEVATION
EM	EQUIPMENT MANUFACTURER
FMFR	FMFRGENCY

ABBREVIATIONS NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED.

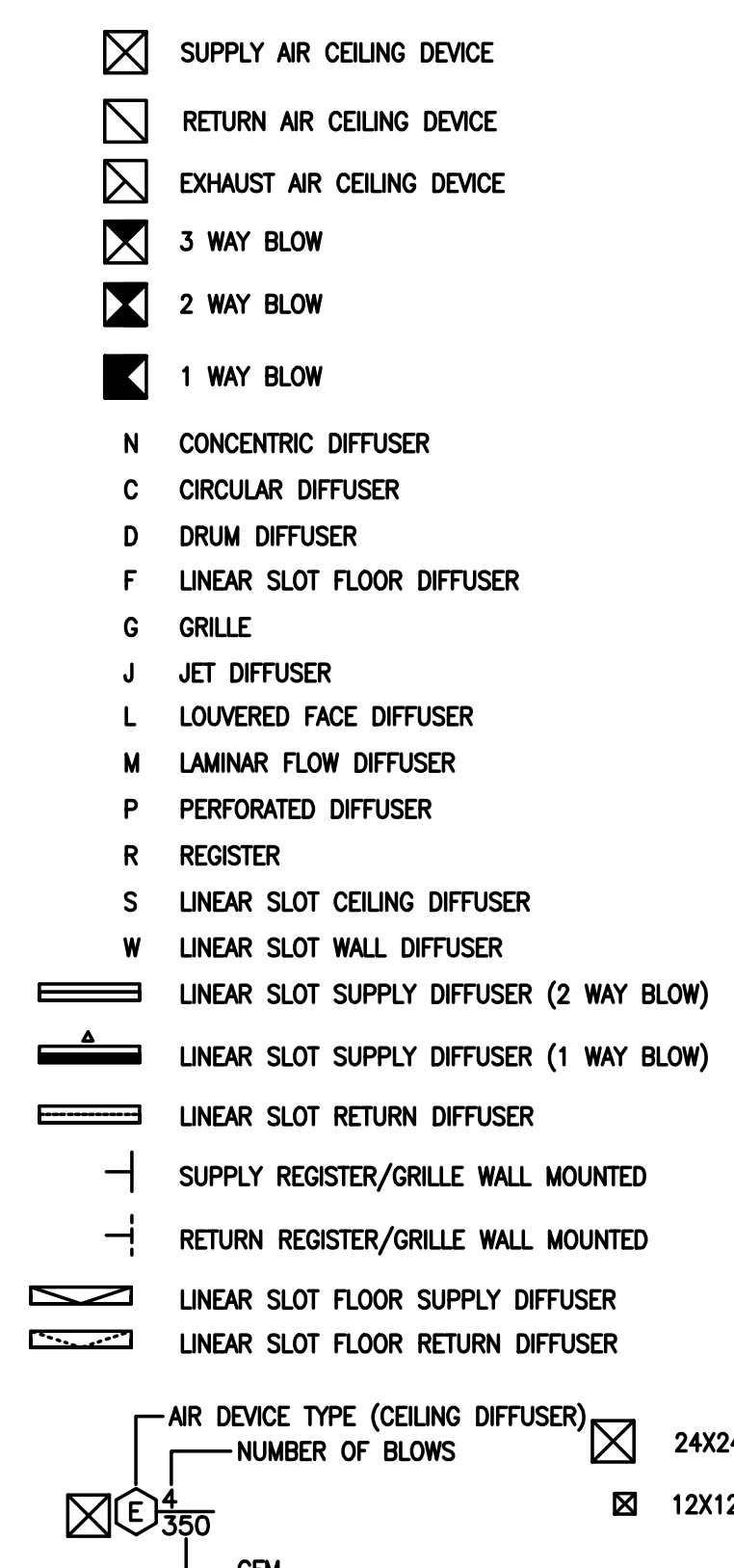
ENT	ENTERING
ER	EXHAUST REGISTER
ERAD	ELECTRIC RADIATION
ERC	EXHAUST ENERGY RECOVERY COIL
ERU	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EVC	EVAPORATIVE COOLER
EWB	ENTERING WET BULB TEMPERATURE
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
EXT	EXTERNAL
F	FILTER
F&T	FLOAT AND THERMOSTATIC STEAM TRAP
FA	FACE AREA
FA	FROM ABOVE
FAS	FIRE ALARM SYSTEM
FB	FROM BELOW
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER OR FLOOR DRAIN
FIN	FINAL
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FLTR	FILTER
FM	FLOW METERING DEVICE
FO	FUEL OIL
FOB	FLAT ON BOTTOM
FOF	FUEL OIL FILL
FOO	FUEL OIL OVERFLOW
FOP	FUEL OIL PUMP
FOS	FUEL OIL SUPPLY
FOT	FLAT ON TOP
FPB	FAN POWERED BOX
FFM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FLASH TANK OR FOOT OR FEET
FTR	FINNED TUBE RADIATION
FUT	FUTURE
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRILLE
GRV	GRAVITY ROOF VENT
GV	GRAVITY VENT
H	HUMIDIFIER
HAV	HEAT ACTUATED SHUTOFF VALVE
HC	HEATING COIL
HG	MERCURY
HO	HUB OUTLET
HP	HORSEPOWER
HTG	HEATING
HV	HEATING & VENTILATING UNIT
HWG	HOT WATER GENERATOR
HX	HEAT EXCHANGER
ID	INSIDE DIAMETER
IN	INCHES
INT	INITIAL
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LD	LINEAR DIFFUSER
LDB	LEAVING DRY BULB TEMPERATURE
LF	LINEAR FOOT
LG	LINEAR GRILLE
LOC	LOCATION
LP	PROPANE
LRA	LOCKED ROTOR AMPS
LVG	LEAVING
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBC	MODULAR BUILDING CONTROLLER
MBH	1000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM OR MINUTE
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MOD	MOTOR OPERATED DAMPER
MODU	MODULATING
MXB	MIXING BOX
N	NEW
NC	NORMALLY CLOSED
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR

OAH	OUTSIDE AIR ENTHALPY
OAI	OUTSIDE AIR INTAKE
OAT	OUTSIDE AIR TEMPERATURE
OB	OPPOSED BLADE DAMPER
OC	ON CENTER
OED	OPEN ENDED DUCT
OEM	ORIGINAL EQUIPMENT MANUFACTURER
OPER	OPERATING
OPNG	OPENING
P	PUMP
PBD	PARALLEL BLADE DAMPER
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PFHX	PLATE & FRAME HEAT EXCHANGER
PHC	PREHEAT COIL
PLN	PLENUM
POS	POSITION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH- ABSOLUTE
PSIG	POUNDS PER SQUARE INCH- GAUGE
QUAN	QUANTITY
R	RISE
RA	RETURN OR RELIEF AIR
RAH	RETURN AIR ENTHALPY
RAT	RETURN AIR TEMPERATURE
RCP	RADIANT CEILING PANEL
REQ	REQUIRED
RET	RETURN
REV	REVISION
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELIEF HOOD OR RELATIVE HUMIDITY
RHC	REHEAT COIL
RHW	ROTARY HEAT WHEEL
RLA	RUN LOAD AMPS
RM	ROOM
RP	RECIRCULATION PUMP
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RTU	ROOFTOP UNIT
RV	RELIEF VALVE
SA	SUPPLY AIR
SB	STRUCTURAL BASE
SCU	SELF CONTAINED UNIT
SD	SMOKE DAMPER OR DETECTOR
SEC	SECOND
SEER	EFFICIENCY RATING
SENS	SENSIBLE
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SI	SPRING HANGER
SO	SCREENED OPENING
SP	STATIC PRESSURE IN WG
SPD	STEAM PRESSURE DROP
SR	SUPPLY REGISTER
SRC	SUPPLY ENERGY RECOVERY COIL
SRV	SAFETY RELIEF VALVE
SSV	SAFETY RELIEF VALVE
SSF	SIDE-STREAM FILTER
ST	SOUND ATTENUATOR
STBY	STANDBY
STM	STEAM
SUP	SUPPLY
SUT	SURGE TANK
TEC	TERMINAL EQUIPMENT CONTROLLER
TG	TRANSFER GRILLE
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TOT	TOTAL
TP	TRANSFER PUMP
TSP	TOTAL STATIC PRESSURE
TTS	TIGHT TO STRUCTURE
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VIB	VIBRATION
VIV	VARIABLE INLET VALVES
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT
WB	WET BULB
WCU	WATER COOLED CONDENSING UNIT
WG	WATER GAUGE
WHP	WATER SOURCE HEAT PUMP
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP

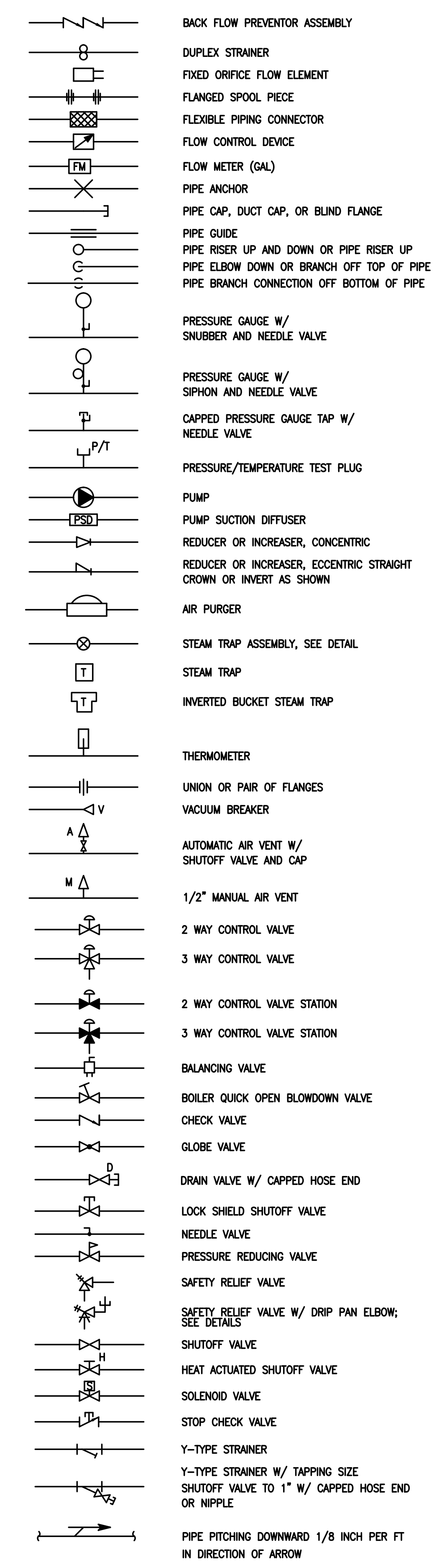
DUCT SYMBOLS



AIR DEVICE LEGEND



PIPE SYMBOLS



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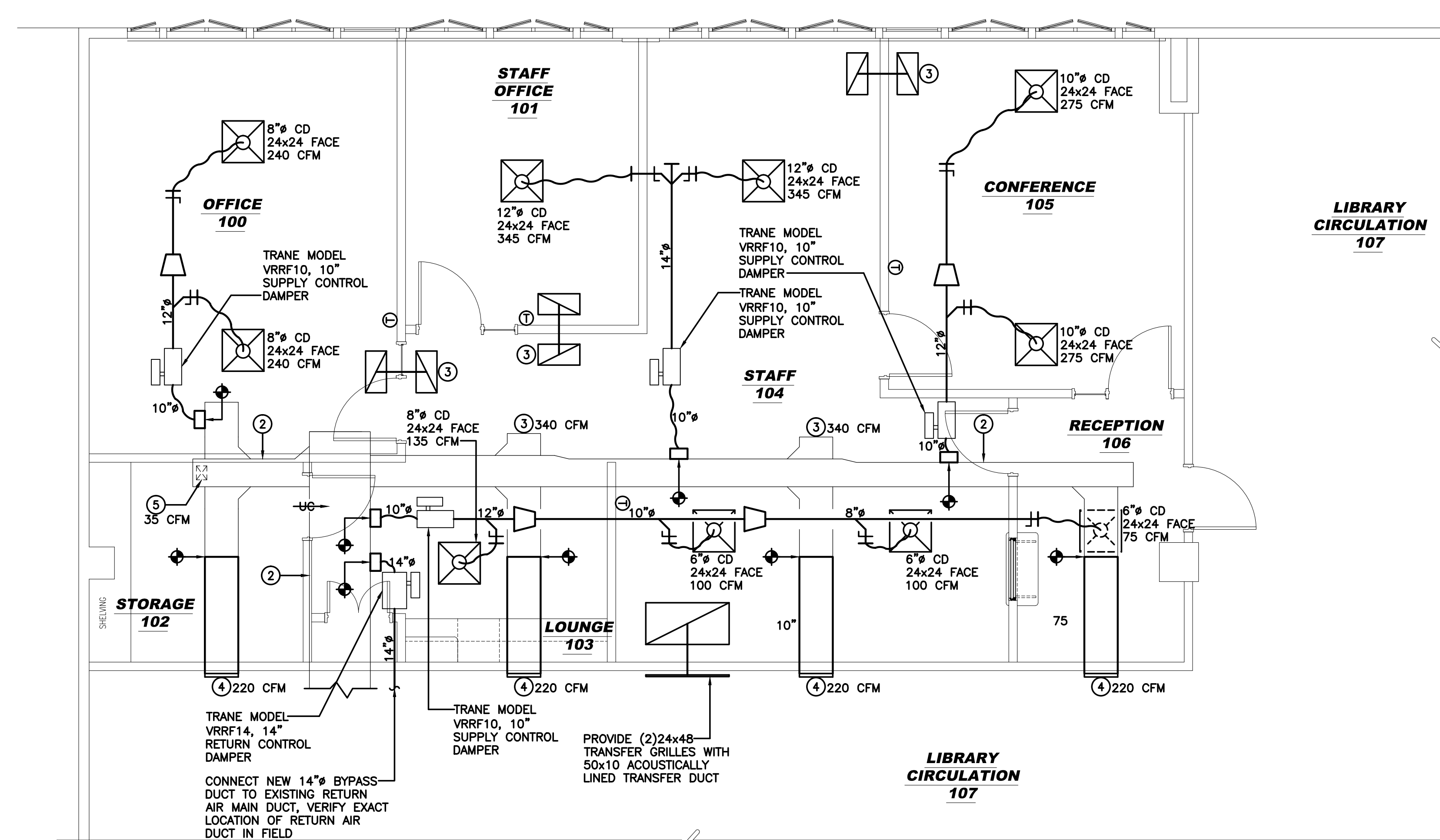
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DRAWING TITLE:
MECHANICAL COVER SHEET

JOB NO: C242022-01	DESIGNED BY: DM3
DATE: 10-5-22	DRAWN BY: AM
SCALE: AS NOTED	CHECKED BY: SMB
DRAWING NUMBER:	

MC1



1
M2.0
1/4"=1'-0"

MECHANICAL SHEET NOTES:

- ① NOT USD.
- ② EXISTING DUCTWORK TO REMAIN, VERIFY EXACT LOCATION IN FIELD, PROTECT DURING CONSTRUCTION.
- ③ PROVIDE (2) 24x12 TRANSFER GRILLES WITH 14x10 ACOUSTICALLY LINED TRANSFER DUCT.
- ④ EXISTING REGISTER TO RELOCATED, EXTEND DUCTWORK AS REQUIRED FOR NEW LOCATION, VERIFY EXACT LOCATION IN FIELD, PROTECT DURING CONSTRUCTION, REBALANCE REGISTER AS INDICATED ON PLAN.
- ⑤ EXISTING SUPPLY AIR REGISTER TO REMAIN, EXTEND TO NEW CEILING LOCATION AS REQUIRED. RE-BALANCE AIR DEVICE AS SHOWN ON PLAN.



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MECHANICAL FLOOR PLAN

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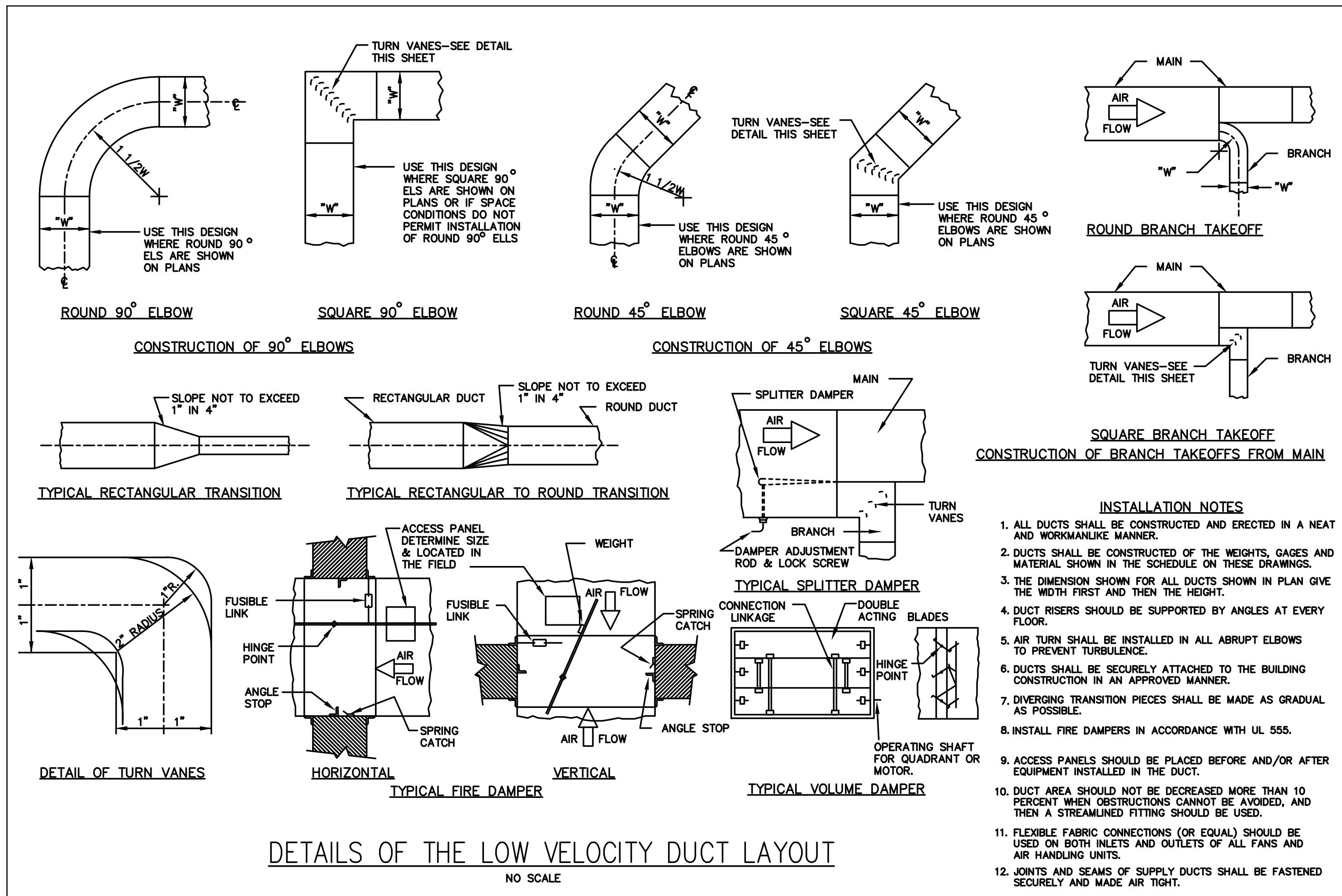
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DRAWING TITLE:

MECHANICAL DETAILS

JOB NO: CCH2022-01
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- INSTALLATION NOTES**
- ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMANLIKE MANNER.
 - DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS, GAGES AND MATERIAL SHOWN IN THE SCHEDULE ON THESE DRAWINGS.
 - THE DIMENSION SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
 - DUCT RISERS SHOULD BE SUPPORTED BY ANGLES AT EVERY FLOOR.
 - AIR TURN SHALL BE INSTALLED IN ALL ABRUPT ELBOWS TO PREVENT TURBULENCE.
 - DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
 - DIVERGING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
 - INSTALL FIRE DAMPERS IN ACCORDANCE WITH UL 555.
 - ACCESS PANELS SHOULD BE PLACED BEFORE AND/OR AFTER EQUIPMENT INSTALLED IN THE DUCT.
 - DUCT AREA SHOULD NOT BE DECREASED MORE THAN 10 PERCENT WHEN OBSTRUCTIONS CANNOT BE AVOIDED, AND THEN A STREAMLINED FITTING SHOULD BE USED.
 - FLEXIBLE FABRIC CONNECTIONS (OR EQUAL) SHOULD BE USED ON BOTH INLETS AND OUTLETS OF ALL FANS AND AIR HANDLING UNITS.
 - JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE FASTENED SECURELY AND MADE AIR TIGHT.

DUCT CONSTRUCTION MINIMUM SHEET METAL THICKNESSES	
RECTANGULAR DUCTS	
MAXIMUM SIZE (INCHES)	STEEL (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.022 INCH (26 GAGE, GALV.)
13 THROUGH 30	0.028 INCH (24 GAGE, GALV.)
31 THROUGH 54	0.034 INCH (22 GAGE, GALV.)
55 THROUGH 84	0.040 INCH (20 GAGE, GALV.)
OVER 84	0.052 INCH (18 GAGE, GALV.)
ROUND DUCTS	
MAXIMUM SIZE (INCHES)	SPIRAL SEAM DUCT
	STEEL (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.019 INCH (28 GAGE, GALV.)
13 THROUGH 18	0.022 INCH (26 GAGE, GALV.)
19 THROUGH 28	0.028 INCH (24 GAGE, GALV.)
29 THROUGH 36	0.034 INCH (22 GAGE, GALV.)
37 THROUGH 52	0.040 INCH (20 GAGE, GALV.)
MAXIMUM SIZE (INCHES)	LONGITUDINAL SEAM DUCT
	STEEL (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.022 INCH (26 GAGE, GALV.)
13 THROUGH 18	0.028 INCH (24 GAGE, GALV.)
19 THROUGH 28	0.034 INCH (22 GAGE, GALV.)
29 THROUGH 36	0.040 INCH (20 GAGE, GALV.)
37 THROUGH 52	0.052 INCH (18 GAGE, GALV.)
MAXIMUM SIZE (INCHES)	FITTINGS
	STEEL (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.022 INCH (26 GAGE, GALV.)
13 THROUGH 18	0.028 INCH (24 GAGE, GALV.)
19 THROUGH 28	0.034 INCH (22 GAGE, GALV.)
29 THROUGH 36	0.040 INCH (20 GAGE, GALV.)
37 THROUGH 52	0.052 INCH (18 GAGE, GALV.)

DUCT CONSTRUCTION SCHEDULE					
DUCT SYSTEM	SMACNA PRESSURE CLASS	SMACNA SEALING CLASS	DUCT MATERIAL	JOINING METHOD	INSUL TYPE & THICKNESS
SUPPLY	+ 1 INCH	C	GALV. STL.	DUCTMATE	1.5" BATT
RETURN	- 1 INCH	C	GALV. STL.	DUCTMATE	1.5" BATT
GENERAL EXHAUST	- 1 INCH	C	GALV. STL.	DUCTMATE	

NOTE:
EXISTING DUCTWORK REQUIRING DEMOLITION SHALL BE TERMINATED PROPERLY IN ACCORDANCE WITH SMACNA STDS. FOR +2 OR -2 PRESSURE RATING.

RESIDENTIAL AHU

- 1 ACCEPTABLE MANUFACTURERS: TRANE, CARRIER, YORK.
- 2 STATIC INDEPENDENT MOTOR, TXV, PRE-PAINTED METAL CABINET, HIGH DENSITY INTERNAL INSULATION, 30% FILTER, PRIMARY AND SECONDARY DRAIN CONNECTIONS, CONTROL TRANSFORMER, ELECTRIC HEATER, DISCONNECT, PROGRAMMABLE THERMOSTAT.

FANS AND VENTILATORS

- 1 FANS SHALL BE CAPABLE OF AUTOMATED TURNDOWN THROUGH DESIGN RANGE FROM MAXIMUM TO MINIMUM CONDITIONS SHOWN WITHOUT STALL, SURGE OR INCREASED VIBRATION FOR SMOOTH TROUBLE FREE OPERATION.
- 2 QUALITY ASSURANCE: FAN PERFORMANCE RATINGS: AMCA 210. PRODUCT SHALL BEAR AMCA CERTIFIED RATING SEAL. SOUND RATINGS: AMCA 301 AND AMCA 300. PRODUCT SHALL BEAR AMCA CERTIFIED SOUND RATING SEAL. FABRICATION: AMCA 99.
- 3 GENERAL:
 - A. PROVIDE DAMPERS WHERE SCHEDULED.
 - B. WHERE DAMPERS ARE INDICATED, PROVIDE DAMPER ACTUATORS IN ACCORDANCE WITH CONTROL DRAWINGS.
- 4 INSTALLATION:
 - A. INSTALL FANS ON VIBRATION ISOLATORS IN ACCORDANCE WITH EQUIPMENT SCHEDULES.
 - B. SECURE ROOF MOUNTED EXHAUST FANS TO ROOF CURBS AND SUPPORTS WITH CORROSION RESISTANT LAG SCREWS.
 - C. UNLESS OTHERWISE SPECIFIED, INSTALL FLEXIBLE SLEEVE BETWEEN FAN INLET AND DISCHARGE DUCTWORK.
 - D. DO NOT OPERATE FANS FOR ANY PURPOSE UNTIL DUCTWORK IS CLEAN, (FILTERS ARE IN PLACE), BEARINGS LUBRICATED AND FANS HAVE BEEN TEST RUN UNDER OBSERVATION.
- 6 ROOF AND WALL MOUNTED CENTRIFUGAL EXHAUST FANS
 - A. MANUFACTURERS: COOK MODEL AC, PENN VENTILATOR, ILG.
 - B. HOUSING: BOLTED AND WELDED CONSTRUCTION UTILIZING CORROSION RESISTANT FASTENERS, MINIMUM 16 GAUGE MARINE ALLOY SPUN ALUMINUM STRUCTURAL BOLTED TO A RIGID ALUMINUM SUPPORT STRUCTURE, ROLL BEAD ON DISCHARGE BAFFLE. ONE-PIECE ALUMINUM BASE, WITH CONTINUOUSLY WELDED CURB CAP CORNERS.
 - C. WHEEL: CENTRIFUGAL, BACKWARD INCLINED, NON-OVERLOADING, ALUMINUM CONSTRUCTION, WITH DEEP SPUN VENTURI INLET AND CAST

AIR FILTERS

- 1 ACCEPTABLE MANUFACTURERS: CAMBRIDGE, FLANDERS, FARR.
- 2 PRE-FILTERS:
 - A. 30 PERCENT EFFICIENT (ASHRAE 52) ; UL CLASS 2; 2 INCH DEEP; 0.08 INCH W.G. AT 250 FPM AND 0.28 INCH W.G. AT 500 FPM, INITIAL PRESSURE DROP. CHANGE OUT PRESSURE DROP: 0.90 INCH W.G.
 - B. PLEATED, NON-WOVEN COTTON FABRIC WITH ALUMINUM SCREEN BONDED TO THE MEDIA.
 - C. CONSTRUCT FRAME OF RIGID, HIGH WET DIAGONAL SUPPORT MEMBERS DIAGONAL SUPPORT MEMBERS BONDED TO INSIDE PERIPHERY OF ENCLOSURE STRENGTH FIBERBOARD WITH AIR SIDES OF EACH PLEAT.

DUCTWORK SYSTEMS

- 1 DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF THE WORK. CAREFULLY EXAMINE THE DRAWINGS AND BE RESPONSIBLE FOR PROPER FITTING OF THE WORK WITHOUT SUBSTANTIAL ALTERATION OF THE INDICATED LAYOUT. VERIFY DIMENSIONS AND ROUTING SHOWN WITH RELATION TO EXISTING WORK AND THE WORK OF OTHER TRADES OR CONTRACTS . VERIFY LOCATION AND INTERFERENCES PRIOR TO FABRICATION AND ERECTION. SIZES SHOWN ON PLANS ARE INSIDE DIMENSIONS.
- 2 DESIGN DUCT SYSTEMS FOR 2% LEAKAGE.
- 3 FABRICATE AND INSTALL DUCTWORK SYSTEMS IN CONFORMANCE WITH SMACNA STANDARDS AND ANY ASSOCIATE MANUFACTURER GUIDELINES.
- 4 SHOP DRAWINGS:
 - A. INDICATE DUCT FITTINGS, GAUGES, SIZES, WELDS AND CONFIGURATIONS. SUBMIT ASSEMBLY AND INSTALLATION INSTRUCTIONS FOR PROPRIETARY MECHANICAL DUCT CONNECTION SYSTEM.
 - B. PREPARE PLANS AND SECTION AT SCALE OF 3/8 INCH TO 1 FOOT.
 - C. SHOW AIR OUTLETS, INLETS, LIGHT FIXTURES, STRUCTURAL ELEMENTS, LINTELS, PARTITIONS AND OTHER ELEMENTS AFFECTING ROUTING OF DUCTWORK. COORDINATE AIR DEVICE LOCATIONS WITH CEILING INSTALLER. SHOW ROOM NUMBERS, NAMES AND COLUMN LINES
 - D. SHOW ACTUAL EQUIPMENT SIZES. (AHUS, TERMINAL BOXES, DIFFUSERS, FANS, ETC.)
 - E. COORDINATE AND SHOW WORK OF OTHER TRADES. INDICATED ANY AREAS OF CONFLICT AND BRING TO A/E'S ATTENTION.
- 5 MATERIALS:
 - A. STEEL: GALVANIZED SHEET, LOCK-FORMING QUALITY, G90 FINISH, ASTM A527.
 - E. CARBON STEEL: MIN .054 INCH THICK (16 MSG)
- 6 FABRICATION - GENERAL REQUIREMENTS
 - A. SQUARE THROAT ELBOWS LARGER THAN 8 INCHES; DOUBLE THICKNESS TURNING VANES. SECURELY FASTEN VANES TO RUNNERS FOR QUIET, VIBRATION FREE OPERATION.
 - B. SQUARE THROAT ELBOWS 8 INCHES AND SMALLER; RADIUS ELBOWS. MINIMUM CENTER LINE RADIUS OF 1-1/2 TIMES DUCT WIDTH.
 - C. WHERE DUCTS ARE LOCATED OUTDOORS, LOCATE LONGITUDINAL SEAMS ON THE BOTTOM OF THE DUCT AND CROSS BREAK TOP SURFACES TO SHED WATER.
 - D. DUCT TRANSITIONS: 15 DEGREE MINIMUM.
 - E. FASTENERS SHALL GENERALLY BE STEEL, WITH ZINC OR CADMIUM COATING, BUT SHALL MATCH THE DUCTWORK MATERIAL. FASTENERS SHALL NOT PROJECT MORE THEN 1/2-INCH INTO DUCTWORK
 - G. DUCT SEALANT SHALL BE UL CLASSIFIED, 25 OR LESS FLAME SPREAD, 50 OR LESS SMOKE SPREAD, 70 PERCENT MIN SOLID CONTENT, REQUIRE NO SURFACE PREPARATION. EQUAL TO UNITED MCGILL.
- 7 GENERAL CONSTRUCTION
 - A. RECTANGULAR, SEALED JOINTS, SEAMS AND CONNECTIONS:
 - (1) SEAMS: PITTSBURGH LOCK.
 - (2) JOINTS: FLANGED MECHANICAL DUCT CONNECTION SYSTEM FOR DUCTS 8 INCHES AND LARGER. POCKET LOCK TYPE FOR DUCTS SMALLER THAN 8 INCHES.
 - (3) SEAL CLASS: A UNLESS OTHERWISE NOTED.
 - B. ROUND SEALED JOINTS, SEAMS AND CONNECTIONS:
 - (1) SEAMS: LOCK TYPE, RL-1 OR RL-5.
 - (2) JOINTS: RT-1, RT-6.
 - (3) FITTINGS: SLIP TYPE; PLEATED OR CONTINUOUSLY WELDED STAMPED OR SEGMENTED. CONTINUOUSLY WELDED FITTINGS SUCH AS CONICAL TEES, 45 DEGREE LATERALS OR WYES MAY BE USED.
 - (4) SEAL CLASS: A UNLESS OTHERWISE NOTED.
 - C. RECTANGULAR, ROUND AND FLAT OVAL: CONTINUOUSLY WELDED JOINTS, SEAMS AND CONNECTIONS AS SPECIFIED:
 - (1) ROUND SEAMS: RL-4.
 - (2) RECTANGULAR JOINTS: T-21 OR T-21A.
 - (3) ROUND JOINTS: RT-4 OR WELDED FLANGE.
 - D. CARBON STEEL, WELDED CONSTRUCTION
 - (1) ROUND SEAMS: RL-4.
 - (2) RECTANGULAR JOINTS: BELL TYPE OR TELESCOPIC
 - (3) ROUND JOINTS: RT-4
- 8 FLANGED MECHANICAL DUCT CONNECTION SYSTEM: ACCEPTABLE MANUFACTURERS: LOCKFORMER TDC, ENGLE TDC, WARD DUCT CONNECTOR INDUSTRIES, AND DUCTMATE.
- 9 FLEXIBLE DUCTWORK:
 - A. ACCEPTABLE MANUFACTURER: WAGNER CORP.
 - B. NON-METALLIC, EXPOSED TO VIEW IN FINISHED AREAS:

- FLEXIBLE TECHNOLOGIES MODEL SPIRATUBE NC-1; NEOPRENE IMPREGNATED POLYESTER FABRIC, ENCLOSED SPRING STEEL WIRE HELIX, INTEGRAL LINER.
- C. NON-METALLIC, CONCEALED AND UNFINISHED AREAS: THERMAFLEX INSULATED TYPE M-KC AND NON-INSULATED TYPE S-TL; UL181, CLASS 1, RATED FOR 6000 FPM VELOCITY, GLASS FIBER CLOTH, COATED SPRING STEEL WIRE HELIX, 1 INCH THICK GLASS FIBER INSULATION WITH VAPOR BARRIER. USE INSULATED TYPE WHERE REQUIRED IN ACCORDANCE WITH SECTION 15250. FLEXIBLE TECHNOLOGIES, FLEXAUST,
- 10 FLEXIBLE DUCTWORK CONNECTOR
 - A. ACCEPTABLE MANUFACTURER: VENTGLASS BY VENTBARICS
 - B. EIGHT INCH WIDE, 30 OZ FLASS FABRIC, DOUBLE COATED WITH NEOPRENE, 25 OR LESS FLAME SPREAD, 12 GAUGE GALV STEEL SECURING BAND
- 11 FIRE DAMPERS:
 - A. ACCEPTABLE MANUFACTURERS: RUSKIN, AIR BALANCE, PREFCO.

AIR OUTLETS AND INLETS

- 1 ACCEPTABLE MANUFACTURERS: TITUS, KRUEGER, TUTTLE & BAILEY.
- 2 GENERAL REQUIREMENTS: FINISH EXPOSED SURFACES WITH BAKED OFF-WHITE EPOXY ENAMEL (UNLESS NOTED OTHERWISE) . COORDINATE DIFFUSER MOUNTING STYLE, WITH CEILING REQUIREMENTS, REFER TO ARCHITECTURAL CEILING PLANS. PERFORMANCE ADA CERTIFIED. SIZES, LENGTHS AND NECK SIZES AS SHOWN ON PLANS.
- 3 SQUARE PERFORATED FACE SUPPLY CEILING DIFFUSERS: ANEMOSTAT MODEL (PR) : STEEL CONSTRUCTION, REMOVABLE CORE, HINGED DISTRIBUTION PLATE, FIELD ADJUSTABLE HORIZONTAL TO VERTICAL AIR FLOW, FIELD CHANGEABLE AIR PATTERN, ROUND NECK, WHITE PERFORATED DISTRIBUTION PLATE, BLACK BACK PAN, EQUALIZING DEFLECTOR.
- 4 SQUARE LOUVERED SUPPLY CEILING DIFFUSERS: ANEMOSTAT MODEL (E#), THREE OR MORE EXPANDED FLARED MEMBERS, HORIZONTAL AIR PATTERN, REMOVABLE INNER ASSEMBLY, STAMPED STEEL CONES, ROUND NECK, EQUALIZING GRID.



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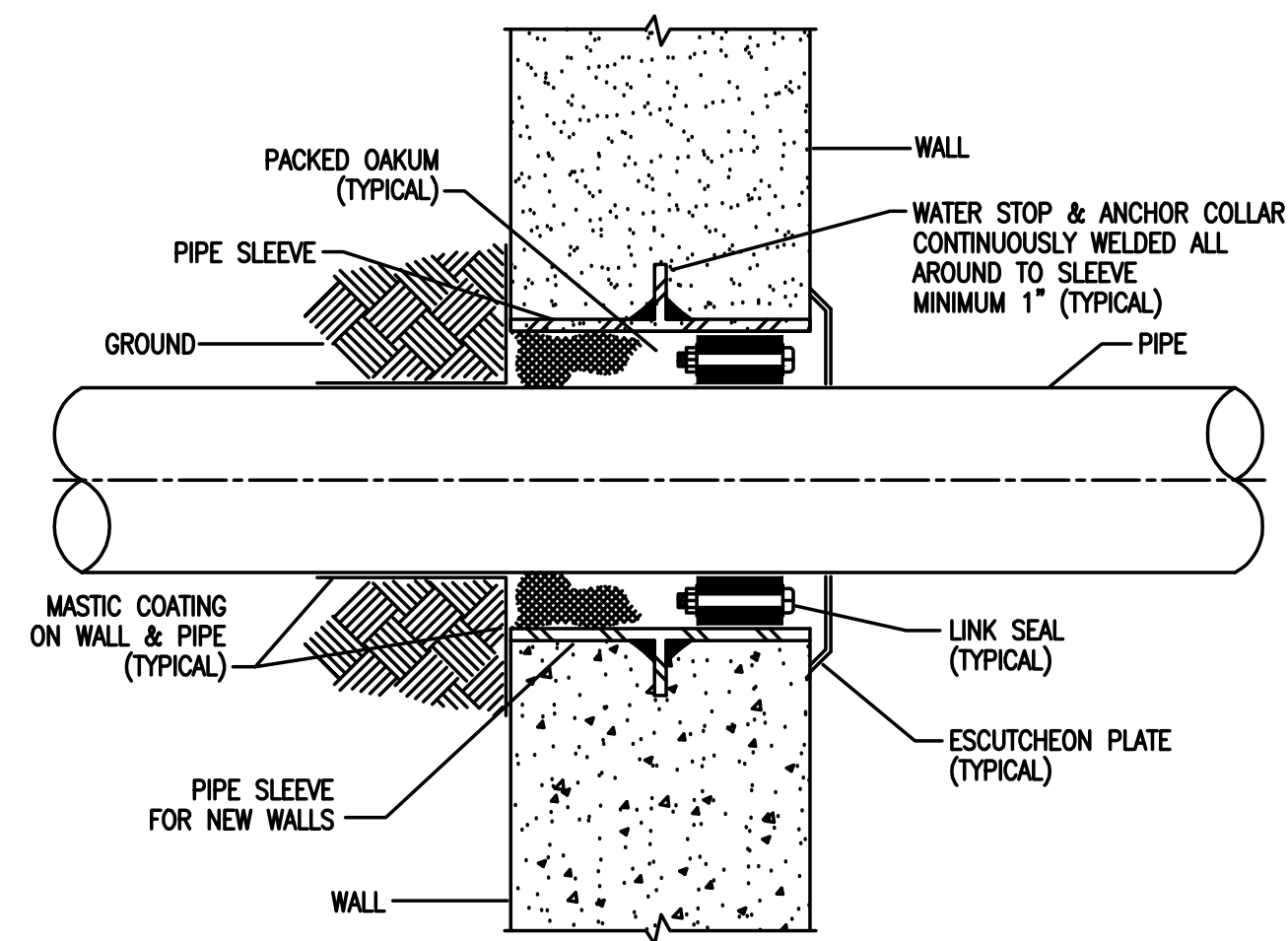
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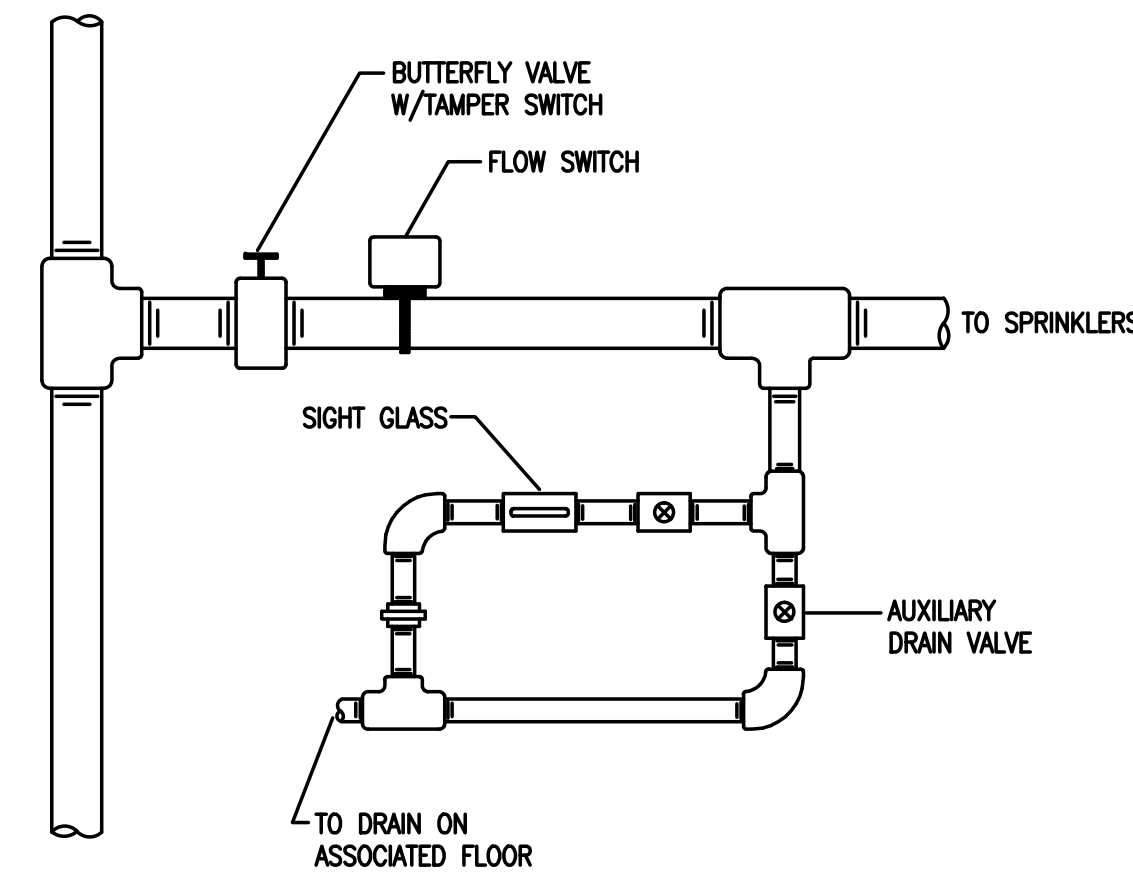
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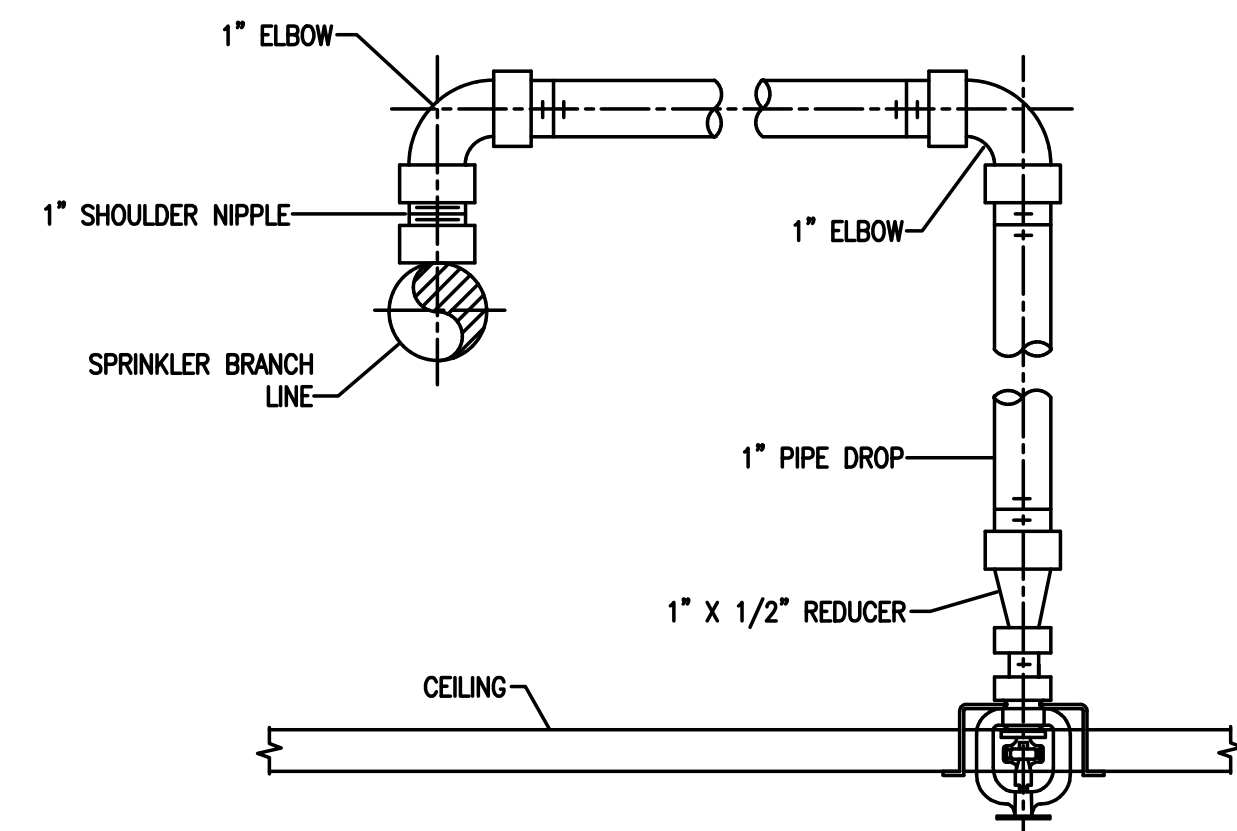
M-4.1



9 PIPING PENETRATION DETAIL
NOT TO SCALE



8 TEST HEADER ASSEMBLY
NOT TO SCALE



7 DETAIL-TYPICAL RECESSED SPRINKLER HEAD-PIPE DROP
NOT TO SCALE

FIRE PROTECTION SYMBOLS

	GATE VALVE
	VALVE IN PIT
	POST INDICATOR VALVE
	KEY-OPERATED VALVE
	OS&Y VALVE
	BUTTERFLY VALVE
	NON INDICATING VALVE (NONRISING-STEM VALVE)
	CHECK VALVE
	BACKFLOW PREVENTER (DOUBLE CHECK VALVE ASSEMBLY)
	BACKFLOW PREVENTER (REDUCED PRESSURE ZONE-RPZ)
	ALARM CHECK VALVE
	DRY PIPE VALVE
	DRY PIPE VALVE
	DELUGE VALVE
	PREACTION VALVE
	INSPECTORS TEST STATION
	FIRE DEPT. HOSE VALVE
	FLOW SWITCH
	TAMPER SWITCH
	WATER MOTOR GONG
	DELUGE RISER
	PREACTION RISER
	SPRINKLER RISER
	PENDENT-CONCEALED
	PENDENT-SEMI-RECESSED
	PENDENT-SEALED/CONCEALED
	PENDENT-RECESSED
	PENDENT-DRY
	UPRIGHT
	UPRIGHT W/GUARD
	SIDEWALL-HORIZONTAL
	SIDEWALL-EXTENDED COVERAGE
	SIDEWALL-DRY, EXTENDED COVERAGE
	PRIVATE HYDRANT ONE HOSE OUTLET
	PUBLIC HYDRANT TWO HOSE OUTLET
	PUBLIC HYDRANT TWO HOSE OUTLET AND PUMPER CONNECTION
	WALL HYDRANT
	SIAMESE FIRE DEPT. CONN.
	FREESTANDING SIAMESE TWO HOSE OUTLET
	SIAMESE FIRE DEPT. CONN.
	CONNECT TO EXISTING
	POINT OF DEMOLITION
	EXISTING FIRE PROTECTION PIPING
	NEW FIRE PROTECTION PIPING

GENERAL NOTES:

- SCOPE OF WORK SHALL INCLUDE BUT BE NOT LIMITED TO THE FOLLOWING: INSTALLATION OF NEW SPRINKLER PIPING, HEADS & ACCESSORIES.
- MATERIALS, INSTALLATION, AND PERFORMANCE SHALL COMPLY WITH NFPA 13, 231C, LOCAL REQUIREMENTS, AND OWNERS UNDERWRITER.
- DESIGN SYSTEM ON A HYDRAULICALLY CALCULATED BASIS. REFER TO SPRINKLER DESIGN CRITERIA, SPRINKLER HEAD COVERAGE, AND SPRINKLER TEMPERATURES IN DIVISION 13 MECHANICAL SPECIFICATIONS SECTION 13900.
- CONTRACTOR SHALL OBTAIN A FLOW TEST BEFORE STARTING WORK ON WATER SUPPLY INDICATING STATIC PRESSURE, INSTANTANEOUS GALLONS PER MINUTE (GPM) WITH RESULTANT RESIDUAL PRESSURE PRIOR TO DESIGN.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL BUILDING CONDITIONS AND NECESSARY INFORMATION AT THE JOB SITE TO PERFORM AND EXECUTE THE REQUIRED WORK. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ENTIRE SYSTEM WITH PIPING, DUCTWORK, DIFFUSERS, LIGHTING FIXTURES AND ALL OTHER TRADES.
- PROVIDE SPRINKLER HEADS OVER AND UNDER ALL EXPOSED DUCTWORK OR OBSTRUCTIONS LARGER THEN 48" IN WIDTH PER NFPA GUIDELINES.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT ROOM LAYOUTS, ROOM DIMENSIONS, CEILING HEIGHTS, BUILDING CONSTRUCTION AND ALL OTHER ARCHITECTURAL AND STRUCTURAL DETAILS IMPACTING DESIGN.
- CONTRACTOR SHALL TEST SYSTEM WITH PRESSURIZED AIR PRIOR TO FINAL TESTING. FINAL TESTING SHALL BE IN ACCORDANCE WITH NFPA 13, & LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS (PER NFPA 13) WHICH INCLUDES HYDRAULIC CALCULATIONS AND EQUIPMENT CUT SHEETS FOR SUBMITTAL TO LOCAL BUILDING PERMIT OFFICE AND ENGINEER FOR APPROVAL.
- CONTRACTOR SHALL PROVIDE PIPE MARKERS EVERY (TEN) 10'-0" INDICATING DIRECTION OF FLOW.
- SPRINKLER PIPING SHALL BE BLACK STEEL PIPE SCHEDULE 40 (1"-2") AND SCHEDULE 10 FOR (2-1/2" AND LARGER).
- ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE PROTECTED WITH THE APPROPRIATE UL RATED PENETRATION SEALING SYSTEM.



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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:
CAMDEN COUNTY LIBRARY SYSTEM
M. ALLAN VOGELSON
LIBRARY RENOVATION
203 LAUREL ROAD
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CAMDEN COUNTY, NEW JERSEY

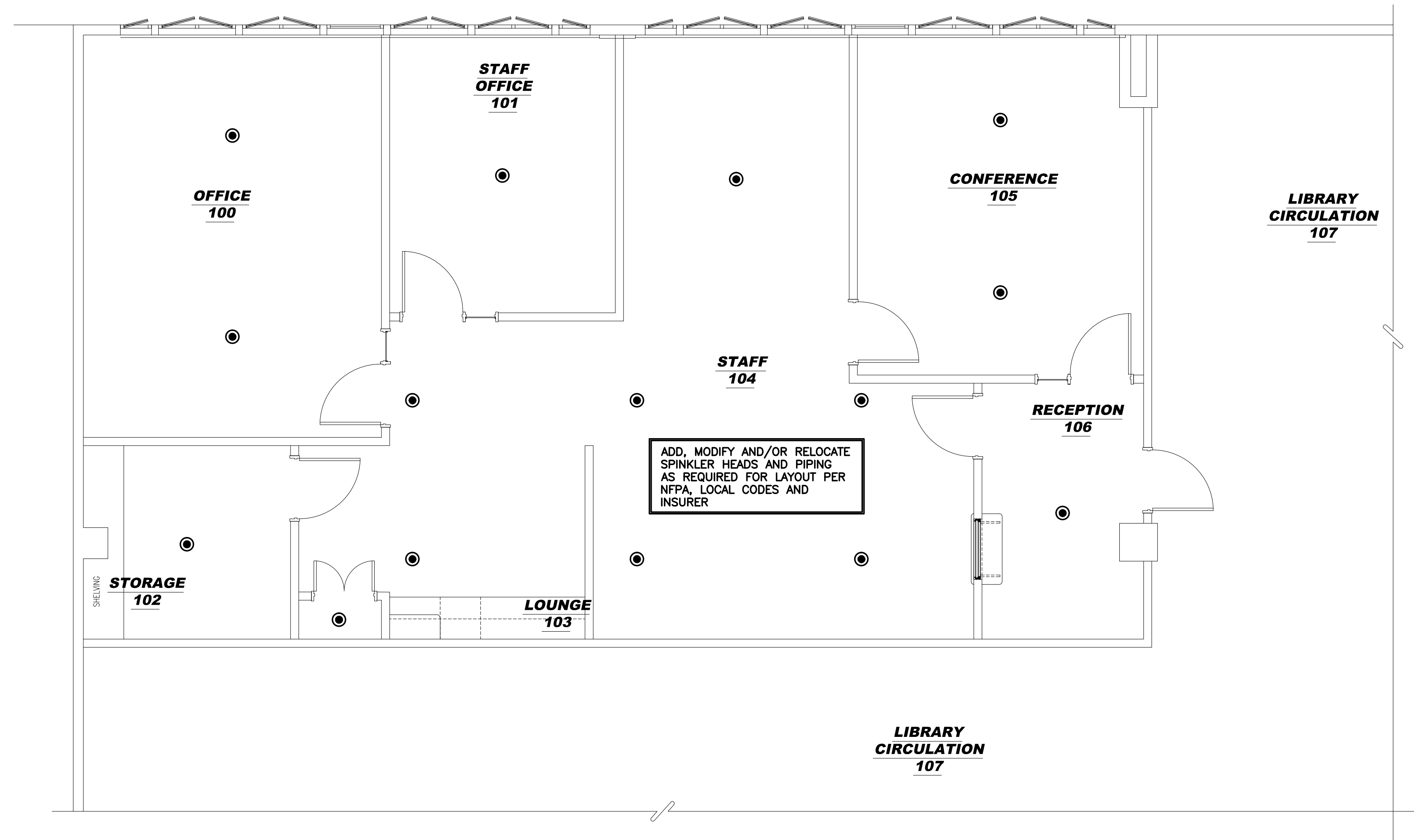
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1	ISSUE FOR BID	11-14-22

DRAWING TITLE:
FIRE PROTECTION COVER SHEET

JOB NO: CCH2022-01	DESIGNED BY: DM3
DATE: 10-5-22	DRAWN BY: AM
SCALE: AS NOTED	CHECKED BY: SMB
DRAWING NUMBER:	

FP-1.0



1 FIRE PROTECTION FLOOR PLAN
 FP2.0 1/4"=1'-0"



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NO.	DESCRIPTION	DATE
1	ISSUE FOR BID	11-14-22

DRAWING TITLE:

FIRE PROTECTION FLOOR PLAN

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