

**GENERAL NOTES:**

- DO NOT SCALE DRAWINGS.
- THE WORK COMPRISES THE COMPLETED CONSTRUCTION REQUIRED BY THE DRAWINGS AND INCLUDES ALL LABOR NECESSARY TO PROVIDE SUCH CONSTRUCTION, AND ALL MATERIALS, AND EQUIPMENT INCORPORATED OR TO BE INCORPORATED IN SUCH CONSTRUCTION.
- THE WORD "PROVIDE" AS USED IN THE DRAWINGS SHALL BE UNDERSTOOD TO MEAN "PROVIDE COMPLETE AND IN PLACE", THAT IS "FURNISHED AND INSTALLED."
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES PRIOR TO STARTING WITH ANY WORK. COMMENCEMENT OF THE WORK SHALL CONSTITUTE ACCEPTANCE OF THE EXISTING CONDITIONS AND THE UNDERSTANDING OF THE EXTENT OF THE WORK NECESSARY FOR COMPLETION.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ADDITIONAL INFORMATION THAT THE CONTRACTOR FEELS IS REQUIRED TO SUBMIT A COMPLETE AND ACCURATE BID.
- GENERAL CONTRACTOR IS TO BID PROJECT AS A COMPLETE PROJECT IF ADDITIONAL INFORMATION IS NEEDED FOR BIDDING PROCESS THE CONTRACTOR IS TO NOTIFY ARCHITECT PRIOR TO SUBMITTING BIDS.
- THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING BEST SKILL AND ATTENTION. BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, & PROCEDURES, AND FOR COORDINATING ALL PORTION OF THE WORK.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED CODES OF THE LOCAL, STATE AND FEDERAL AUTHORITIES.
- EACH SUB-CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE KNOWLEDGE OF THE CONSTRUCTION DOCUMENTS AND THE APPLICABLE BUILDING CODES.
- PROVIDE AND PAY FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT & MACHINERY, WATER AND TRANSPORTATION FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK, WHETHER TEMPORARY OR PERMANENT, AND WHETHER OR NOT INCORPORATED OR TO BE INCORPORATED IN THE WORK. DO NOT BRING TO THE PROJECT NOR TO THE PROJECT SITE, NEITHER TEMPORARILY NOR PERMANENTLY, FOR INCORPORATION OR NON-INCORPORATION INTO THE WORK, ANY ASBESTOS PCB.
- ALL MATERIALS AND EQUIPMENT INCORPORATED INTO THE WORK SHALL BE NEW UNLESS OTHERWISE INDICATED. ALL WORK SHALL BE OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND DEFECTS AND IN CONFORMANCE WITH THE DRAWINGS. ALL WORK NOT CONFORMING TO THESE REQUIREMENTS, INCLUDING SUBSTITUTIONS NOT PROPERLY APPROVED & AUTHORIZED, IN WRITING, BY THE TENANT, MAY BE CONSIDERED DEFECTIVE.
- PAY ALL SALES, CONSUMER USE AND SIMILAR TAXES FOR THE WORK.
- SECURE AND PAY FOR ALL PERMITS AND GOVERNMENTAL FEES, LICENSES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.
- PROVIDE PRODUCTS BY THE MANUFACTURERS INDICATED, OF THE MODEL, COLOR, AND FINISH INDICATED, UNLESS OTHERWISE APPROVED BY THE TENANT AND OWNER BEFORE INSTALLATION.
- ALL BUILDING FACILITIES SHALL BE KEPT CLEAN AT ALL TIMES PER THE BUILDING OWNER'S REQUIREMENTS AND DIRECTION.
- ALL FINISHED AREAS ADJACENT TO THE AREAS OF CONSTRUCTION SHALL BE PROTECTED FROM DUST BY THE USE OF OWNER - APPROVED DUSTPROOF PROTECTION.
- ALL RUBBISH, DEBRIS, AND EXCESS CONSTRUCTION MATERIALS SHALL BE IMMEDIATELY REMOVED FROM THE PROJECT SITE AFTER OBTAINING THE GENERAL CONTRACTOR'S AUTHORIZATION. EACH SUB-CONTRACTOR WILL BE RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF HIS OWN DEBRIS DAILY. THE PREMISES AND THE JOB SITE SHALL BE MAINTAINED IN A REASONABLY NEAT AND ORDERLY CONDITION AT ALL TIMES.
- ALL NEW WORK AND CONSTRUCTION MATERIALS SHALL BE SUCCESSFULLY INTEGRATED WITH THE EXISTING CONSTRUCTION AND MATERIALS SO AS NOT TO APPEAR DIFFERENT OR TO BE OF DIFFERENT QUALITY.
- ALL WORK THAT NECESSITATES THE SHUTTING DOWN OF THE BUILDING SYSTEMS FOR TIE-IN OR ALTERATION PURPOSES SHALL BE COORDINATED WITH THE BUILDING OWNER AND AS PER HIS DIRECTION.
- THE CONTRACTOR SHALL INCLUDE ALL OWNER FURNISHED AND INSTALLED ITEMS AND OWNER FURNISHED AND CONTRACTOR INSTALLED ITEMS IN THE CONSTRUCTION AND SHALL COORDINATE WITH THE OWNER TO ACCOMMODATE THOSE ITEMS.
- THE CONTRACTOR MUST VERIFY AND COORDINATE (WITHIN REASON) ALL OPERATIONAL REQUIREMENTS AND CLEARANCE DIMENSIONS OF THE PROJECT COMPONENTS. THIS INCLUDES BUT IS NOT LIMITED TO: REFRIGERATORS, MICROWAVES, OTHER APPLIANCES, COFFERS, DESKS, TABLES, CHAIRS, ETC. FOR CABINETS, COORDINATE AND ENSURE COMPLETE AND CLEAR OPERATION OF DRAWERS AND DOORS. PROVIDE 1"-1/4" SCRIBE AT THE END OF ALL CABINET RUNS ADJUTING WALL ASSEMBLIES TO ENSURE PROPER CLEARANCE.
- THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF PRODUCTS STORED ON THE PREMISES AND PROVIDE PROPER INSURANCE REQUIREMENTS IN THE EVENT OF DAMAGE OR THEFT.
- THE CONTRACTOR SHALL MAINTAIN ADEQUATE SERVICE, PARKING AND ACCESS TO THE FACILITY.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT THE OWNER'S PROPERTY FROM DAMAGE DURING THE PROGRESS OF THE WORK. ANY DAMAGE TO THE OWNER'S PROPERTY SHALL BE RESTORED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE AND IN A MANNER SATISFACTORY TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- THE ARCHITECT CANNOT ACCEPT ANY RESPONSIBILITY FOR SUPERVISION PERFORMED BY OTHERS. THE AGREEMENT BETWEEN THE ARCHITECT AND ANY OTHER PARTY DOES NOT INCLUDE ON SITE SUPERVISION OR INSPECTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUB-CONTRACTOR'S SUBMISSION OF "AS-BUILT" DRAWINGS UPON THE COMPLETION OF THE PROJECT.

- CONTRACTOR AGREES TO BE RESPONSIBLE FOR ANY AND ALL INJURY DUE TO DAMAGE TO ANY PERSON AND/OR PROPERTY ARISING DIRECTLY OR INDIRECTLY FROM OR IN CONNECTION WITH WORK PERFORMED UNDER THIS CONTRACT, INCLUDING EXTRA WORK, AND SHALL HOLD OWNER AND ARCHITECT HARMLESS OF ANY AND ALL LOSS OR DAMAGE FROM SUCH INJURY, DAMAGE OR DEATH.
- THE ARCHITECT AND OWNER SHALL BE HELD AND REMAIN HARMLESS THROUGHOUT THE SCOPE OF CONSTRUCTION.
- BEFORE TO FINAL OCCUPANCY, ALL KEYS FOR THE SPACE SHALL BE PROVIDED TO THE OWNER.
- BEFORE TO FINAL OCCUPANCY, ALL EQUIPMENT MANUALS AND MAINTENANCE RECOMMENDATIONS SHALL BE PROVIDED TO THE OWNER.

**SHOP DRAWINGS & SAMPLES:**

- UNLESS SPECIFICALLY INDICATED IN THE DRAWINGS OR OTHERWISE REQUIRED BY THE ARCHITECT'S SERVICE AGREEMENT, SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS ARE NOT REQUIRED TO BE SUBMITTED TO THE ARCHITECT FOR ANY PURPOSE. UNSOLICITED SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER SIMILAR SUBMITTALS MAY BE RETURNED BY THE ARCHITECT WITHOUT COMMENT.

**ACCESSIBLE SIGNAGE:**

- ALL ACCESSIBLE SIGNAGE SHALL BE IN ACCORDANCE WITH ANSI 4-28-5 AND CURRENT THE ILLINOIS ACCESSIBILITY CODE.
- ALL EXITS AND THEIR COMPONENTS SHALL BE PROPERLY IDENTIFIED BY ILLUMINATED SIGNS WITH EMERGENCY BACKUP CAPABILITIES. ADDITIONAL DEVICES MAY BE REQUIRED DEPENDING ON THE FINAL FLOOR LAYOUT. THESE SHALL BE FIELD VERIFIED BY THE LOCAL BUILDING AUTHORITY AND LOCAL FIRE MARSHAL.
- EMERGENCY LIGHTING UNITS SHALL BE PROVIDED FOR ALL EXISTS AND THEIR COMPONENTS THROUGHOUT THE ENTIRE SPACE. ADDITIONAL DEVICES MAY BE REQUIRED DEPENDING ON THE FINAL FLOOR LAYOUT. THESE SHALL BE FIELD VERIFIED BY THE LOCAL BUILDING AUTHORITY AND LOCAL FIRE MARSHAL.

**FIRE SPRINKLER & FIRE ALARM NOTES:**

- EXISTING BUILDING DOES NOT HAVE A FIRE SPRINKLER SYSTEM.
- THE FIRE SPRINKLER SYSTEM IS TO BE DESIGN AND INSTALLED BY THE BUILDING OWNER'S FIRE SPRINKLER CONTRACTOR WHO IS TO BE AN ILLINOIS LICENSED FIRE SPRINKLER CONTRACTOR. THE FIRE SPRINKLER CONTRACTOR IS TO SUBMIT FIRE SPRINKLER SHOW DRAWINGS, HYDRAULIC CALCULATIONS, AND EQUIPMENT CUT SHEETS TO THE LOCAL AUTHORITY, INCLUDING THE FIRE MARSHAL. THIS INFORMATION MUST BE SUBMITTED PRIOR TO PERFORMING ANY FIRE SPRINKLER WORK AND PRIOR TO ROUGH FRAMING INSPECTIONS.
- FIRE ALARM WORK SHALL BE REQUIRED. CONTRACTOR TO SUBMIT FIRE ALARM SHOP DRAWINGS WITH POINT TO POINT WIRE DIAGRAMS, BATTERY LOAD CALCULATIONS AND EQUIPMENT CUT SHEETS. THIS INFORMATION MUST BE SUBMITTED PRIOR TO PERFORMING ANY FIRE SPRINKLER WORK & PRIOR TO ROUGH FRAMING INSPECTIONS.
- EXIT SIGNS SHALL BE LOCATED AT EXIT DOORS OR EXISTING ACCESS AREAS. EXITS SHALL BE MARKED BY APPROVED SIGNS READILY VISIBLE FROM ANY DIRECTION OF EXISTING ACCESS. SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN THE EXIST ACCESS CORRIDOR IS MORE THAN 100 FEET FROM THE NEAREST SIGN.
- EMERGENCY LIGHTING SHALL BE PROVIDED IN ALL EGRESS CORRIDORS, ALL STAIRWELLS (IF ANY), ALL RESTROOMS, AND ALL PUBLIC AREAS OF THE BUILDING.
- ALL EGRESS DOORS ARE TO USE KEYLESS LOCKSETS ON THE EGRESS SIDE. NO FLUSH BOLTS, DEAD OR DRAW BOLTS, ETC SHALL BE ALLOWED.
- CONTRACTOR TO PROVIDE FIRE EXTINGUISHERS WITH A MINIMUM RATING OF 3a:40BC. EVERY REQUIRED FIRE EXTINGUISHER SHALL BE INSTALLED IN A LOCATION VISIBLE TO THE OCCUPANTS AND THE GENERAL PUBLIC AND EASILY ACCESSIBLE. THE NUMBER AND PLACEMENT OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS.
- BUILDING ADDRESS (IF NOT ALREADY PROVIDED) MUST BE VISIBLE USING NUMBERS CONTRACTING IN COLOR TO ITS BACKGROUND & WHITE IF ON GLASS. ADDRESSES SHALL BE A MINIMUM OF 5" IN HEIGHT.
- FIRE ALARM SHALL BE IN FULL COMPLIANCE WITH LOCAL BUILDING AUTHORITY AND THE LOCAL FIRE DEPARTMENT OR FIRE PROTECTION DISTRICT REQUIREMENTS FOR SPRINKLERED BUILDINGS, NFPA 72, AND THE INTERNATIONAL FIRE CODE.
- THE BUILDING FIRE ALARM AND DETECTION SYSTEM SHALL BE UPGRADED WITH THE PROPER NUMBER OF DEVICES. THE CONTRACTOR OR THE CONTRACTOR'S FIRE ALARM CONTRACTOR SHALL SUBMIT PLANS, BATTERY CALCULATIONS, AND CUT SHEETS TO BOTH THE LOCAL BUILDING AUTHORITY AND THE LOCAL FIRE MARSHAL FOR REVIEW AND APPROVAL.
- LOW VOLTAGE FIRE ALARM INSTALLER TO PROVIDE LOCAL FIRE DEPARTMENT WITH DEVICE LOCATION LAYOUT DRAWINGS, SPECS AND SAMPLE OF FIRE ALARM WIRE. THE LOCAL FIRE DEPARTMENT SHALL BE RESPONSIBLE FOR APPROVAL AND TESTING OF DEDICATED FIRE ALARM (TELEPHONE LINE) CIRCUIT, HVAC DUCT AND ROOFTOP UNIT DETECTOR SHUTDOWN DEVICES AS WELL AS SUPRA-MAX. LOCATE FIRE DEPARTMENT OUTSIDE KEY LOCK BOX UNDER DIRECTION OF LOCAL FIRE DEPARTMENT (IF ANY & AS REQUIRED).
- PROVIDE PORTABLE, WALL OR CABINET MOUNTED FIRE EXTINGUISHERS IN ALL BUILDINGS AND SHALL BE LOCATED AS REQUIRED BY INTERNATIONAL BUILDING CODE AND THE INTERNATIONAL FIRE CODE. THE LOCAL BUILDING INSPECTOR SHALL DETERMINE ACTUAL SIZE, NUMBER AND PLACEMENT OF FIRE EXTINGUISHERS.
- A MINIMUM OF ONE (1) 10 LBS TYPE ABC PORTABLE FIRE EXTINGUISHERS SHALL BE ASSUMED AND PROVIDED AND PROPERLY INSTALLED AND MOUNTED.

**PROJECT DESCRIPTION:**

- THIS PROJECT IS TO BE A COMMERCIAL BUILD OUT STARTING WITH AN EXISTING BUILDING AND RENOVATING AS NEEDED TO CREATE NEW UNSEX BATHROOMS PLUS CREATING WORKOUT ROOM, LACROSSE ROOM AND STORAGE ROOM. THIS PROJECT IS FOR PRIVATE USE ONLY. NOT OPEN TO PUBLIC.
- EXISTING EXTERIOR CMU WALLS ARE TO REMAIN BUT FILL WHERE NEED BE, WITH CMU, STEEL FRAMED WINDOWS TO BE ADDED, REPLACE WINDOWS, AND DOORS. THE EXISTING ROOFS ARE TO REMAIN.
- EXISTING WATER, SEWER, ELECTRIC, GAS SERVICES SHALL REMAIN AND EXISTING SERVICES TO THE BUILDING SHALL BE UPGRADED AS NEEDED.
- NEW BATHROOM PLUMBING, SEWER LINES AND WATER LINES SHALL BE RUN AS NEEDED TO THE NEW TOILET ROOMS.
- THE FIRE ALARM SYSTEM SHALL BE CHECKED AND UPDATED BY THE CONTRACTOR'S FIRE ALARM CONTRACTOR.
- ALL SECURITY SYSTEMS & AUDIO/VIDEO SYSTEMS SHALL BE BY TENANT AND BY TENANTS OWN PROVIDER/INSTALLER AND IS NOT INCLUDED UNDER THIS PROJECT. WORK MAY BE PERFORMED DURING THIS PROJECT WITH THE AGREEMENT OF THE CONTRACTOR AND OBTAINING ANY REQUIRED PERMITS FROM THE LOCAL AUTHORITY PRIOR TO STARTING ANY OF THIS WORK.

**PROJECT CONTACTS:**

ARCHITECT: CRAFTSTONE ARCHITECTS, INC.  
14150 S. ROUTE 30, SUITE 201  
PLAINFIELD, IL 60544  
P: 815.609.1997

GENERAL CONTRACTOR: TO BE DETERMINED

**PROJECT SUMMARY:**

PROJECT ADDRESS:..... SEE TITLE BLOCK

CONSTRUCTION TYPE:..... III

FULLY SPRINKLERED:..... NO

ZONING USE:..... B3

AREA OF SPACE (FIRST FLOOR):..... 6,467 S.F.

NUMBER OF STORIES OF BUILDING:..... 1 STORY

FIRE RESISTANCE OF STRUCTURAL MEMBERS:..... 0 HOURS

OCCUPANT LOAD (BUILDING CODE):..... 116

OCCUPANT LOAD (ILLINOIS PLUMBING CODE):..... 30

NUMBER OF EMPLOYEES:..... N/A

BATHROOM(S) REQUIRED:..... 1 MEN/1 WOMEN

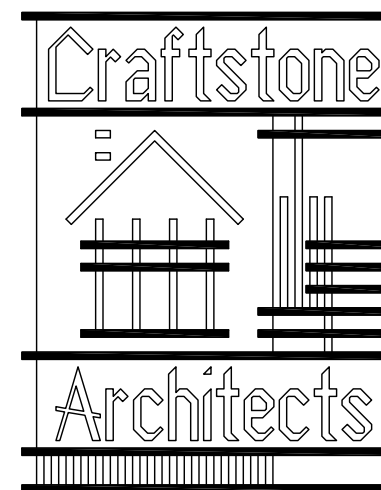
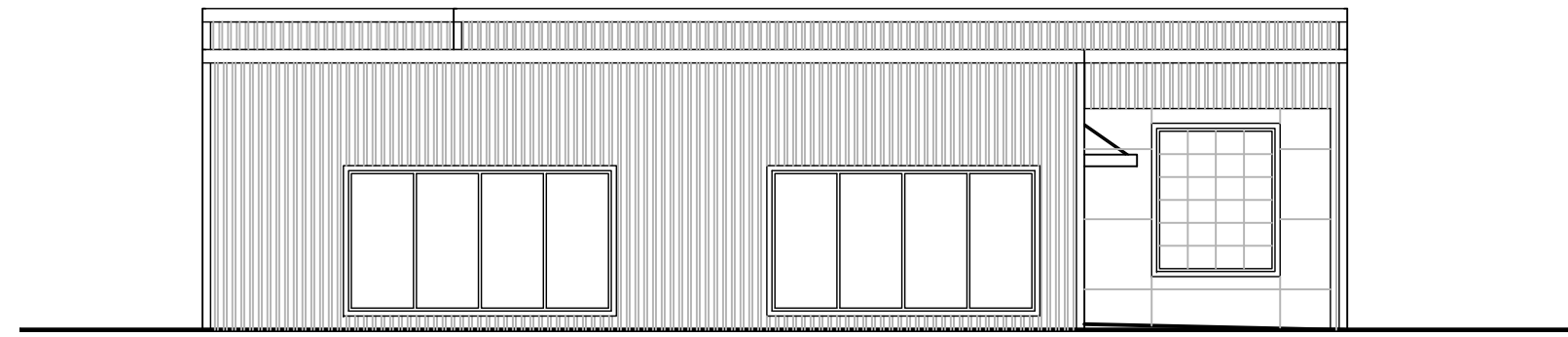
MEN'S TOILET/LAVATORY REQUIRED:..... 1 TOILET/1 LAV

WOMEN'S TOILET/LAVATORY REQUIRED:..... 1 TOILET/1 LAV

BUILDING USE GROUP:..... A-3

# Bonnet Washington Building

655 N. WASHINGTON ST. NAPERVILLE, IL 60540



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ARCHITECT

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BUILDER

STATE OF ILLINOIS

LICENSED ARCHITECT

MICHAEL A. BURR  
001-015688

03-10-2026 | 11-30-2026  
DATED | EXPIRES

DATE	ISSUANCE
03/10/2026	PERMIT COMMENTS DATED 07/26/2026
12/29/25	PERMIT SET

BONNET WASHINGTON BUILDING  
655 N. WASHINGTON ST.  
NAPERVILLE, IL 60540

for  
Brett Bonnett

**TITLE SHEET-INDEX OF DRAWINGS-NOTES**

DRAWN BY:  
EJP/AAM

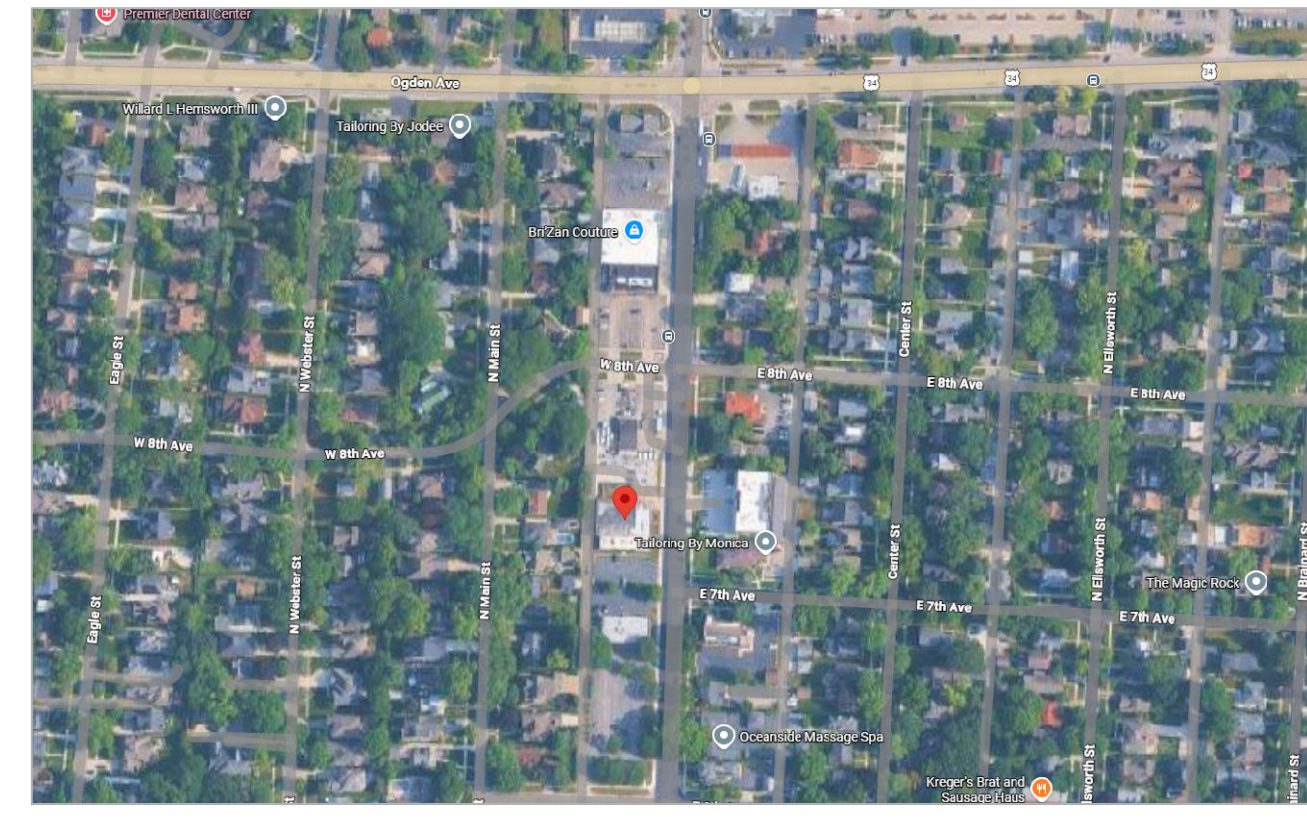
CHECKED BY:  
MAB

PROJECT NUMBER:  
2510140

SHEET NUMBER:  
**A0.10**

OF 9 SHEETS

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ELECTRICAL SYMBOLS		ABBREVIATIONS	
	CABLE/ANTENNA JACK	#	NUMBER
	LIGHT FIXTURE: SURFACE MOUNTED WITH PULL CHAIN	FIRST	FIRST
	LIGHT FIXTURE: WALL MOUNTED	2ND	SECOND
	ETHERNET PORT	BSMT	BASEMENT
	ETHERNET PORT: RECESSED IN FLOOR	CAB.	CABINET(S)
	INTERNET & SPEAKER TERMINATION	CFM	CUBIC FEET PER MINUTE
	DETECTOR: CARBON MONOXIDE	CLG	CEILING
	DETECTOR: SMOKE	CO	CASED OPENING
	EXHAUST FAN (REQ'D CFM OF FAN)	COL	COLUMN
	EXHAUST FAN & LIGHT (REQ'D CFM OF FAN)	CPT	CARPET / CARPETING
	LIGHT FIXTURE UNDERCABINET LIGHT	CT	CERAMIC TILE
	JUNCTION BOX (POWER CONNECTION)	D	DEEP / DEPTH
	LIGHT FIXTURE: RECESSED HALOGEN	DED.	DEDICATED
	LIGHT FIXTURE: RECESSED INCANDESCENT	DISP.	DISHWASHER
	LIGHT FIXTURE: SURFACE MOUNTED	DN	DOWN
	LIGHT FIXTURE: PENDENT MOUNTED	EX	EXIST / EXISTING
	FLOOR DRAIN	FL	FLOOR
	GAS CONNECTION WITH SHUT-OFF VALVE	FND	FOUNDATION
	STRUCTURAL BEAM/HEADER (SIZE AS NOTED)	F.P.	FROST PROOF
	GAS KEY LOCATION	FT	FEET
	FROST PROOF HOSE BIBB	GA	GAUGE
	SWITCH WIRING	GAL	GALLON
	WALL SWITCH	GFI	GROUND FAULT INTERRUPT
	WALL SWITCH: 3-WIRE (IF 4, THEN 4-WIRE)	HWOD	HARDWOOD
	SPEAKER: RECESSED IN CEILING	H	HIGH
	SPEAKER: RECESSED IN CEILING	HT	HEIGHT
	SPEAKER: RECESSED IN CEILING	H.W.L.	HIGH WATER LEVEL IN CONSTRUCTION
	SPEAKER: RECESSED IN CEILING	I.C.	IN CONSTRUCTION
	SPEAKER: RECESSED IN CEILING	LB	POUND
	SPEAKER: RECESSED IN CEILING	L.T.	LAUNDRY TUB
	SPEAKER: RECESSED IN CEILING	LVL	LAMINATED VENEER LUMBER
	SPEAKER: RECESSED IN CEILING	MAX.	MAXIMUM
	SPEAKER: RECESSED IN CEILING	MIN.	MINIMUM
	SPEAKER: RECESSED IN CEILING	O.H.	OVERHEAD
	SPEAKER: RECESSED IN CEILING	PK	POCKET
	SPEAKER: RECESSED IN CEILING	PR	PAIR
	SPEAKER: RECESSED IN CEILING	R/D	REMOVE AND DISPOSE
	SPEAKER: RECESSED IN CEILING	R/R	REMOVE AND REINSTALL
	SPEAKER: RECESSED IN CEILING	R/S	REMOVE AND SAVE
	SPEAKER: RECESSED IN CEILING	REFR.	REFRIGERATOR
	SPEAKER: RECESSED IN CEILING	REQ.	REQUIRED
	SPEAKER: RECESSED IN CEILING	REQ'D	REQUIRED
	SPEAKER: RECESSED IN CEILING	RO	ROUGH OPENING
	SPEAKER: RECESSED IN CEILING	S&R	SHELF AND ROD
	SPEAKER: RECESSED IN CEILING	S.F.	SQUARE FEET
	SPEAKER: RECESSED IN CEILING	SQ.	SQUARE
	SPEAKER: RECESSED IN CEILING	STL	STEEL
	SPEAKER: RECESSED IN CEILING	STRU.	STRUCTURE / STRUCTURAL
	SPEAKER: RECESSED IN CEILING	TYP.	TYPICAL / TYPICALLY
	SPEAKER: RECESSED IN CEILING	U.N.O.	UNLESS NOTED OTHERWISE
	SPEAKER: RECESSED IN CEILING	VAN.	VANITY
	SPEAKER: RECESSED IN CEILING	VOL.	VOLUME
	SPEAKER: RECESSED IN CEILING	W	WIDE / WIDTH
	SPEAKER: RECESSED IN CEILING	W/W	WITH
	SPEAKER: RECESSED IN CEILING	W/D	WASHER AND DRYER
	SPEAKER: RECESSED IN CEILING	W/O	WITHOUT
	SPEAKER: RECESSED IN CEILING	WP	WATER PROOF

+72" THIS NUMBER DESIGNATION TIED TO A SYMBOL SIGNIFIES THAT THE FIXTURE TO BE MOUNTED AT A SPECIFIC HEIGHT (IN INCHES) ABOVE THE FINISHED FLOOR. MEASUREMENT IS TO CENTERLINE OF THE FIXTURE. IF NO NUMBER IS GIVEN, THEN THE FIXTURE TO BE MOUNTED AT A STANDARD BUILDING PRACTICE HEIGHT AND MUST MEET ALL APPLICABLE CODES.

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BY SIGNING & SEALING THIS FIRST SHEET OF THE SET, THE ARCHITECT CERTIFIES THAT ALL SHEETS LISTED IN THIS INDEX OF DRAWINGS AND WHICH ALSO BEAR THE ARCHITECT'S SEAL, SHALL BE CERTIFIED

CODES for CITY OF NAPERVILLE	
ALL WORK IS TO CONFORM TO THE FOLLOWING CODES:	
2018	INTERNATIONAL BUILDING CODE
2018	INTERNATIONAL PROPERTY MAINTENANCE CODE
2018	INTERNATIONAL FIRE CODE
2018	INTERNATIONAL FUEL GAS CODE
2018	INTERNATIONAL MECHANICAL CODE
2018	INTERNATIONAL PLUMBING CODE
2018	INTERNATIONAL EXISTING BUILDING CODE
2018	INTERNATIONAL SWIMMING POOL AND SPA CODE
2017	NATIONAL ELECTRIC CODE (NFPA 70)
2006	INTERNATIONAL CODE COUNCIL ELECTRICAL ADMINISTRATIVE PROVISIONS
2018	LIFE SAFETY CODE (NFPA 101)
ILLINOIS	ENERGY CONSERVATION CODE, CURRENT EDITION
NATIONAL	FIRE CODE (NFPA), CURRENT EDITION
ILLINOIS	STATE PLUMBING CODE, CURRENT EDITION
ILLINOIS	ACCESSIBILITY CODE, CURRENT EDITION
LOCAL	AMENDMENTS PER NAPERVILLE MUNICIPAL CODE

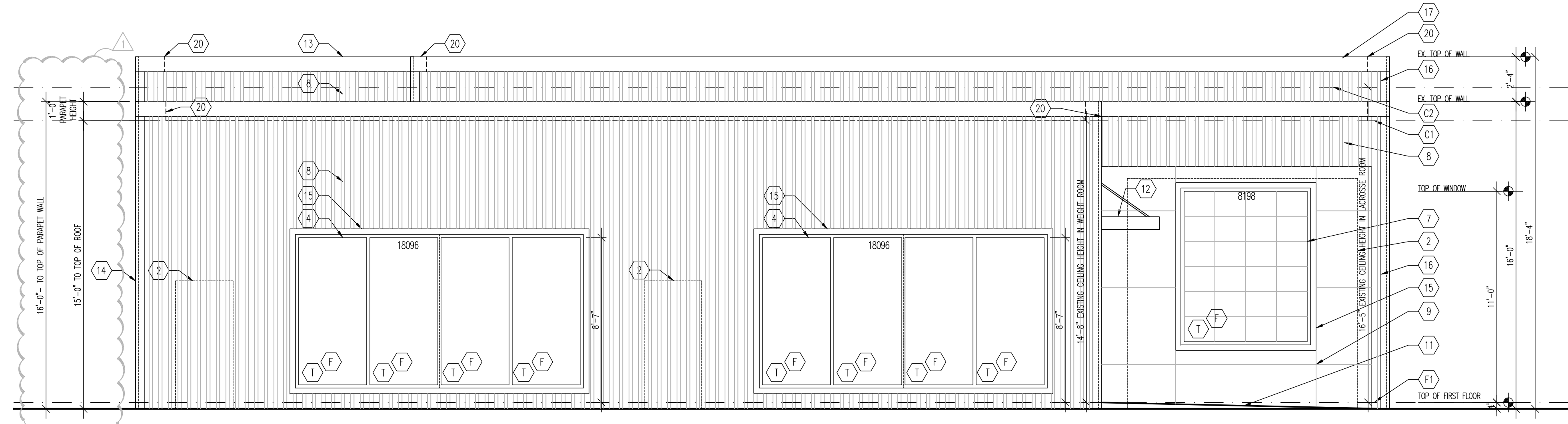
A: ABBREVIATION FOR CODE IS IN PARENTHESIS (XX).

**CERTIFICATION OF THE DRAWINGS**

BY SIGNING AND SEALING THESE DRAWINGS, I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY PERSONAL SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLY WITH THE ACCESSIBILITY STANDARDS OF THE STATE OF ILLINOIS AND COMPLY WITH THE ORDINANCES OF THE CITY OF NAPERVILLE, ILLINOIS

D

C



**C1** FRONT ELEVATION- EAST  
1/4" = 1'-0"

**EXTERIOR ELEVATION KEYNOTE LEGEND:**

- 1 WINDOW TO BE REMOVED AND FILLED
- 2 DOOR TO BE REMOVED AND FILLED
- 3 EXISTING CONCRETE FOUNDATION
- 4 WINDOW TO BE REPLACED
- 5 DOOR TO BE REPLACED
- 6 NEW DOOR
- 7 NEW WINDOW
- 8 HARDE BOARD AND BATTEN - MANUFACTURER: JAMES HARDE / STYLE: BOX RIB 1 / SIZE: 4" BOARD 2" BATTEN (FULL HEIGHT) / COLOR: WHITE BLACK TO MATCH PAC CLAD. (BATTENS TO MATCH SAME DENSITY/FREQUENCY OF BOX RIB 1.)
- 9 HARDE ARCHITECTURAL PANELS- MANUFACTURER: JAMES HARDE
- 10 NOT USED
- 11 ADJUST SIDEWALK AS REQUIRED TO BE FLUSH FROM FLOOR
- 12 ROOF CANOPY DESIGNED BY OTHERS, CANOPY TO BE METAL AND BLACK
- 13 EXISTING ROOF TO REMAIN AS IS
- 14 EXISTING GAU DEMISING WALL
- 15 WINDOWS AND DOOR TRIM- MANUFACTURER: JAMES HARDE / COLOR: MIDNIGHT BLACK
- 16 HARDE BOARD CORNER TRIM- MANUFACTURER: JAMES HARDE / COLOR: MIDNIGHT BLACK
- 17 HARDE BOARD CORNICE- MANUFACTURER: JAMES HARDE / COLOR: MIDNIGHT BLACK
- 18 AC UNITS
- 19 BOLLARDS BY OTHERS- TO PROTECT AC UNITS
- 20 PARAPET WALL
- 21 ROOF LINE
- 22 AC UNIT SCREENING: TREX FENCE- STEEL HORIZONTAL FENCE FRAME SYSTEM. COLOR: CHARCOAL BLACK.

EX EXISTING F0 BASEMENT FLOOR LINE C1 CEILING LINE IN WEIGHT ROOM  
 E EGRESS F1 FIRST FLOOR LINE C2 CEILING LINE LACROSSE ROOM  
 F FIXED F2 SECOND FLOOR LINE  
 T TEMPERED F3 ENTRY FLOOR LINE

NUMBERS ON WINDOWS/DOORS INDICATE THE SIZE OF WINDOW (WIDTH x HEIGHT)

**EGRESS WINDOW NOTE:**  
 EGRESS WINDOWS SHALL HAVE AT LEAST 5.7 SF OF CLEAR OPENING (EXCEPT GRADE LEVEL WINDOWS WHICH CAN HAVE 5.0 SF) AND HAVE A MINIMUM CLEAR WIDTH OF 20" AND A MINIMUM CLEAR HEIGHT OF 24" AND THE TOP OF THE SILL CAN NOT BE ANY MORE THAN 44" ABOVE THE FLOOR. (SEE WINDOW SILL NOTE).

**WINDOW SILL NOTE:**  
 WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE THE FINISHED GRADE, THE LOWEST PART OF THE CLEAR OPENING SHALL BE AT LEAST 24" AFF. - ADJUST WINDOW HEIGHT AS REQUIRED.

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ARCHITECT

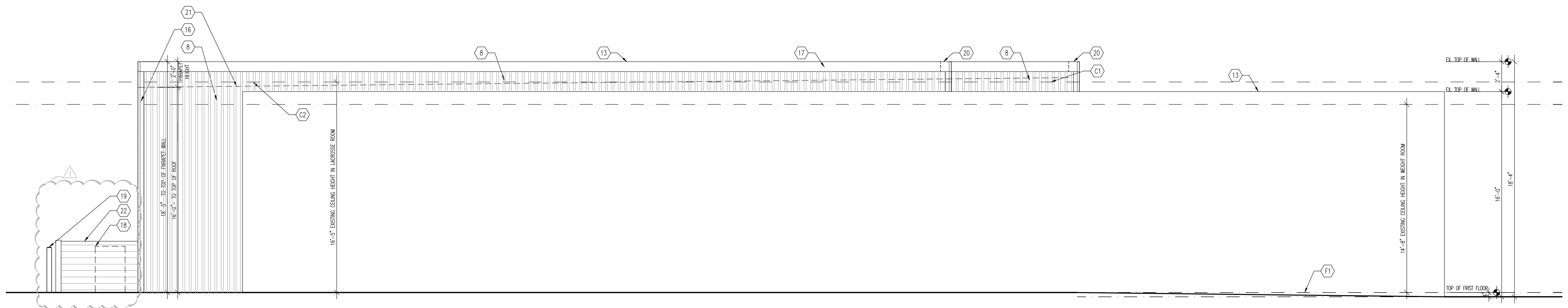
BUILDER

STATE OF ILLINOIS  
 LICENSED ARCHITECT  
 MICHAEL A. BURR  
 001-015688

03-10-2026 | 11-30-2026  
 DATED | EXPIRES

03/10/2026	PERMIT COMMENTS DATED 07/26/2026	ISSUANCE
12/29/25	PERMIT SET	DATE

B



**A1** LEFT SIDE ELEVATION- SOUTH  
1/4" = 1'-0"

BONNET WASHINGTON BUILDING  
 655 N. WASHINGTON ST.  
 NAPERVILLE, IL 60540

for  
 Brett Bonnett

**EXTERIOR ELEVATIONS - FRONT & LEFT SIDE**

DRAWN BY:  
 EJP/AAM

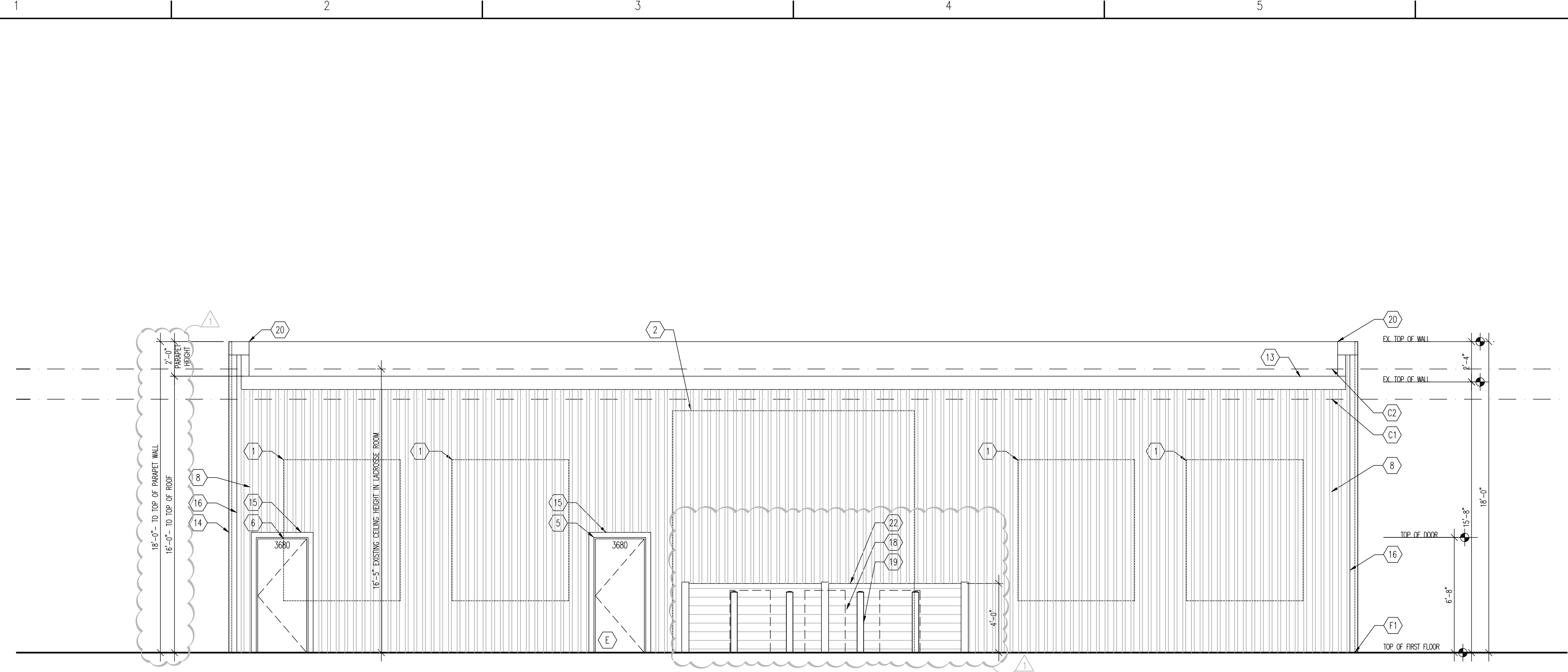
CHECKED BY:  
 MAB

PROJECT NUMBER:  
 2510140

SHEET NUMBER:  
**A1.10**

OF 9 SHEETS

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 Revise No. 2510140-18  
 The Name: 2510140-A1.10.dwg



**C1 REAR ELEVATION- WEST**  
1/4" = 1'-0"

- EXTERIOR ELEVATION KEYNOTE LEGEND:**
- 1 WINDOW TO BE REMOVED AND FILLED
  - 2 DOOR TO BE REMOVED AND FILLED
  - 3 EXISTING CONCRETE FOUNDATION
  - 4 WINDOW TO BE REPLACED
  - 5 DOOR TO BE REPLACED
  - 6 NEW DOOR
  - 7 NEW WINDOW
  - 8 HARDE BOARD AND BATTEN - MANUFACTURER: JAMES HARDE / STYLE: BOX RIB 1 / SIZE: 4" BOARD 2" BATTEN (FULL HEIGHT) / COLOR: WHITE BLACK TO MATCH PAC LEAD. (BATTELS TO MATCH SAME DENSITY/FREQUENCY OF BOX RIB 1.)
  - 9 HARDE ARCHITECTURAL PANELS- MANUFACTURER: JAMES HARDE
  - 10 NOT USED
  - 11 ADJUST SIDEWALK AS REQUIRED TO BE FLUSH FROM FLOOR
  - 12 ROOF CANOPY DESIGNED BY OTHERS, CANOPY TO BE METAL AND BLACK
  - 13 EXISTING ROOF TO REMAIN AS IS
  - 14 EXISTING COAL DEMISING WALL
  - 15 WINDOWS AND DOOR TRIM- MANUFACTURER: JAMES HARDE / COLOR: MIDNIGHT BLACK
  - 16 HARDE BOARD CORNER TRIM- MANUFACTURER: JAMES HARDE / COLOR: MIDNIGHT BLACK
  - 17 HARDE BOARD CORNICE- MANUFACTURER: JAMES HARDE / COLOR: MIDNIGHT BLACK
  - 18 AC UNITS
  - 19 BOLLARDS BY OTHERS- TO PROTECT AC UNITS
  - 20 PARAPET WALL
  - 21 ROOF LINE
  - 22 AC UNIT SCREENING: TREX FENCE- STEEL HORIZONTAL FENCE FRAME SYSTEM. COLOR: CHARCOAL BLACK.
- EX EXISTING F0 BASEMENT FLOOR LINE C1 CEILING LINE IN WEIGHT ROOM  
 E EGRESS F1 FIRST FLOOR LINE C2 CEILING LINE LACROSSE ROOM  
 F FIXED F2 SECOND FLOOR LINE  
 T TEMPERED F3 ENTRY FLOOR LINE
- NUMBERS ON WINDOWS/DOORS INDICATE THE SIZE OF WINDOW (WIDTH x HEIGHT)
- EGRESS WINDOW NOTE:**  
 EGRESS WINDOWS SHALL HAVE AT LEAST 5.7 SF OF CLEAR OPENING (EXCEPT GRADE LEVEL WINDOWS WHICH CAN HAVE 5.0 SF) AND HAVE A MINIMUM CLEAR WIDTH OF 20" AND A MINIMUM CLEAR HEIGHT OF 24" AND THE TOP OF THE SILL CAN NOT BE ANY MORE THAN 44" ABOVE THE FLOOR. (SEE WINDOW SILL NOTE).
- WINDOW SILL NOTE:**  
 WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE THE FINISHED GRADE, THE LOWEST PART OF THE CLEAR OPENING SHALL BE AT LEAST 24" A.F.F. - ADJUST WINDOW HEIGHT AS REQUIRED.

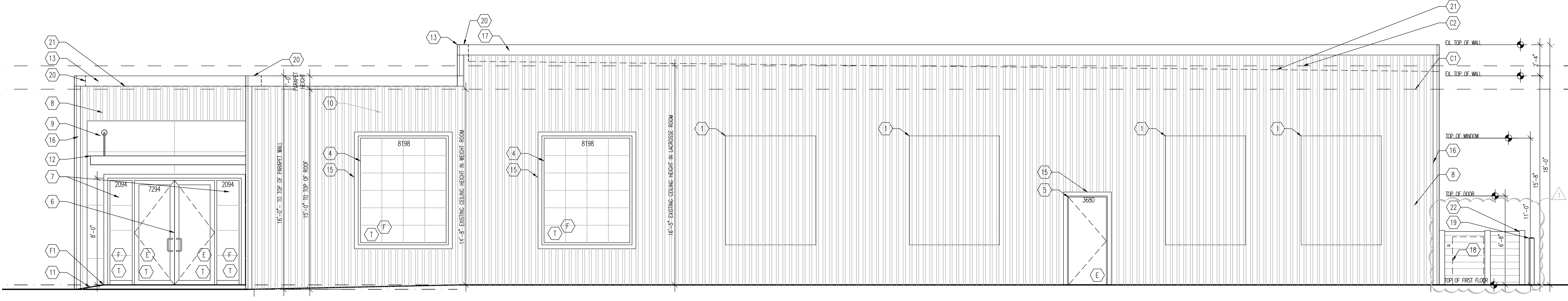
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ARCHITECT

**Michael A. Buhner**  
 LICENSED ARCHITECT  
 STATE OF ILLINOIS  
 001-015688

03-10-2026 | 11-30-2026  
 DATED | EXPIRES



**A1 RIGHT SIDE ELEVATION- NORTH**  
1/4" = 1'-0"

BUILDER

03/10/2026 | 12/29/25 | PERMIT COMMENTS DATED 01/26/2026  
 DATE | PERMIT SET | ISSUANCE

BONNET WASHINGTON BUILDING  
 655 N. WASHINGTON ST.  
 NAPERVILLE, IL 60540  
 for  
 Brett Bonnett

**EXTERIOR ELEVATIONS- REAR & RIGHT SIDE**

DRAWN BY:  
EJP/AAM

CHECKED BY:  
MAB

PROJECT NUMBER:  
2510140

SHEET NUMBER:  
**A1.20**

OF 9 SHEETS

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 Revise No. 2025-02-18  
 The Name: 2510140-A1.20.dwg



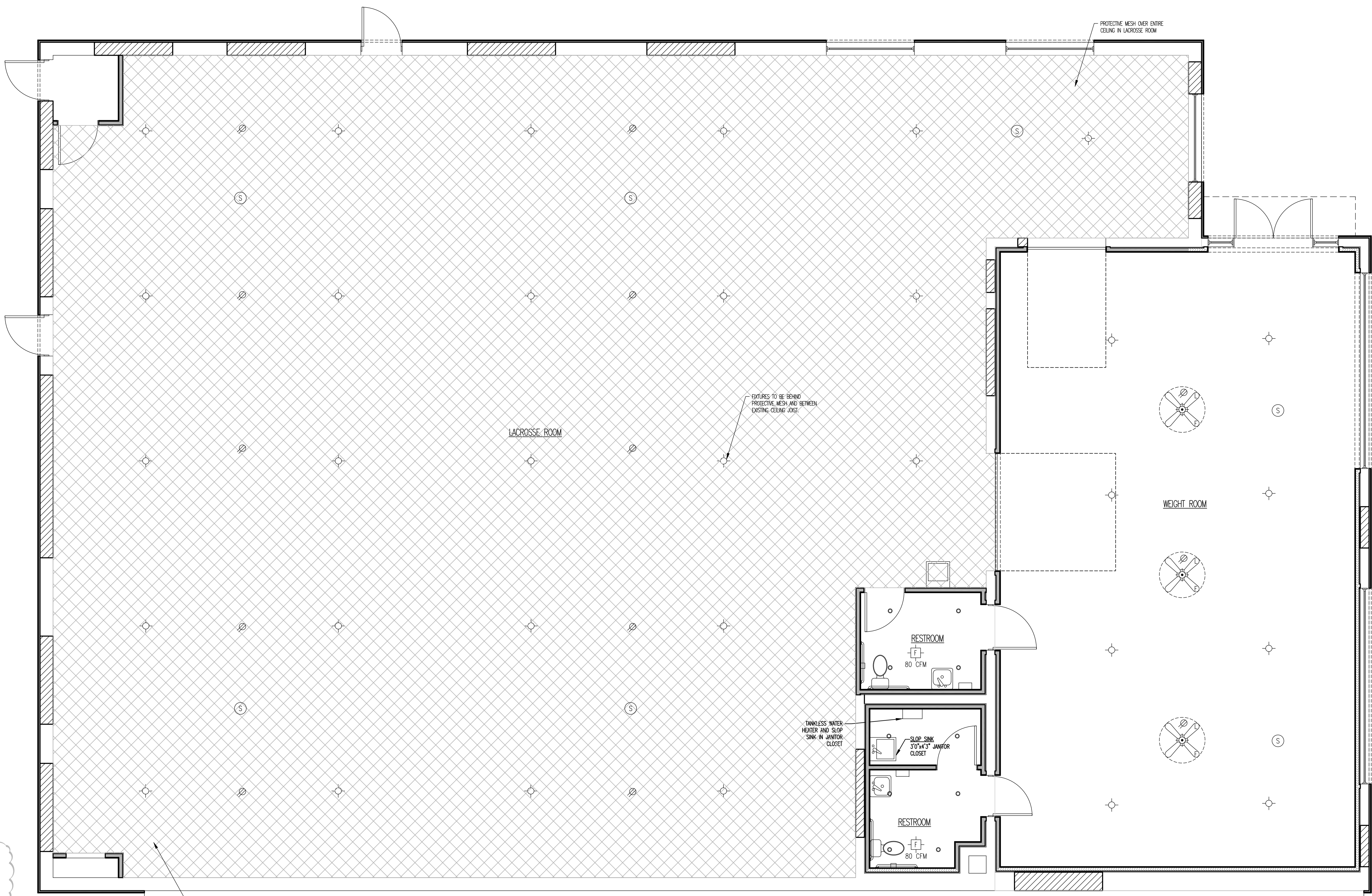




REFLECTED CEILING SCHEDULE

	DECORATIVE WALL ART LIGHT		HANGING LED LIGHT		WALL LIGHT SWITCH @ 48" AFF (IF SWITCH IS CONTROLLING INCANDESCENT LIGHTING, IT SHOULD BE RHEOSTATIC)		MANUAL PULL STATION
	4" CAN LIGHT		IN WALL SHELVING LED LIGHT		EXHAUST FAN 80 CFM		HEAT DETECTOR (110V WITH BATTERY BACKUP)
	LED SHELF LIGHT		IN WALL STAIR LIGHT		HORN STROBE		TRACK HEAD WITH LED BULB (16W EACH)
	DECORATIVE WALL SCONCE		IN FLOOR LED LIGHT		STROBE		HVAC SUPPLY GRILL (2'x2')
	DECORATIVE HANGING LIGHT FIXTURE		BATTERY BACK-UP EXIT SIGN (32W)		HVAC RETURN GRILL (2'x2')		
	IN CEILING LED LIGHT		BATTERY BACK-UP EMERGENCY LIGHTING				

PHONE & INTERNET CONNECTIONS BY OTHERS



2510140-001 (2510140-001) | 2510140-002 (2510140-002) | 2510140-003 (2510140-003) | 2510140-004 (2510140-004) | 2510140-005 (2510140-005) | 2510140-006 (2510140-006) | 2510140-007 (2510140-007) | 2510140-008 (2510140-008) | 2510140-009 (2510140-009) | 2510140-010 (2510140-010) | 2510140-011 (2510140-011) | 2510140-012 (2510140-012) | 2510140-013 (2510140-013) | 2510140-014 (2510140-014) | 2510140-015 (2510140-015) | 2510140-016 (2510140-016) | 2510140-017 (2510140-017) | 2510140-018 (2510140-018) | 2510140-019 (2510140-019) | 2510140-020 (2510140-020) | 2510140-021 (2510140-021) | 2510140-022 (2510140-022) | 2510140-023 (2510140-023) | 2510140-024 (2510140-024) | 2510140-025 (2510140-025) | 2510140-026 (2510140-026) | 2510140-027 (2510140-027) | 2510140-028 (2510140-028) | 2510140-029 (2510140-029) | 2510140-030 (2510140-030) | 2510140-031 (2510140-031) | 2510140-032 (2510140-032) | 2510140-033 (2510140-033) | 2510140-034 (2510140-034) | 2510140-035 (2510140-035) | 2510140-036 (2510140-036) | 2510140-037 (2510140-037) | 2510140-038 (2510140-038) | 2510140-039 (2510140-039) | 2510140-040 (2510140-040) | 2510140-041 (2510140-041) | 2510140-042 (2510140-042) | 2510140-043 (2510140-043) | 2510140-044 (2510140-044) | 2510140-045 (2510140-045) | 2510140-046 (2510140-046) | 2510140-047 (2510140-047) | 2510140-048 (2510140-048) | 2510140-049 (2510140-049) | 2510140-050 (2510140-050) | 2510140-051 (2510140-051) | 2510140-052 (2510140-052) | 2510140-053 (2510140-053) | 2510140-054 (2510140-054) | 2510140-055 (2510140-055) | 2510140-056 (2510140-056) | 2510140-057 (2510140-057) | 2510140-058 (2510140-058) | 2510140-059 (2510140-059) | 2510140-060 (2510140-060) | 2510140-061 (2510140-061) | 2510140-062 (2510140-062) | 2510140-063 (2510140-063) | 2510140-064 (2510140-064) | 2510140-065 (2510140-065) | 2510140-066 (2510140-066) | 2510140-067 (2510140-067) | 2510140-068 (2510140-068) | 2510140-069 (2510140-069) | 2510140-070 (2510140-070) | 2510140-071 (2510140-071) | 2510140-072 (2510140-072) | 2510140-073 (2510140-073) | 2510140-074 (2510140-074) | 2510140-075 (2510140-075) | 2510140-076 (2510140-076) | 2510140-077 (2510140-077) | 2510140-078 (2510140-078) | 2510140-079 (2510140-079) | 2510140-080 (2510140-080) | 2510140-081 (2510140-081) | 2510140-082 (2510140-082) | 2510140-083 (2510140-083) | 2510140-084 (2510140-084) | 2510140-085 (2510140-085) | 2510140-086 (2510140-086) | 2510140-087 (2510140-087) | 2510140-088 (2510140-088) | 2510140-089 (2510140-089) | 2510140-090 (2510140-090) | 2510140-091 (2510140-091) | 2510140-092 (2510140-092) | 2510140-093 (2510140-093) | 2510140-094 (2510140-094) | 2510140-095 (2510140-095) | 2510140-096 (2510140-096) | 2510140-097 (2510140-097) | 2510140-098 (2510140-098) | 2510140-099 (2510140-099) | 2510140-100 (2510140-100)

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ARCHITECT  
**CraftStone Architects, Inc.**  
 ARCHITECT

LICENSED ARCHITECT  
 MICHAEL A. BURR  
 001-015688  
 STATE OF ILLINOIS  
 DATED 03-10-2026 | 11-30-2026  
 EXPIRES

03/10/2026	PERMIT COMMENTS DATED 01/26/2026	ISSUANCE
12/29/25	PERMIT SET	DATE

BONNET WASHINGTON BUILDING  
 655 N. WASHINGTON ST.  
 NAPERVILLE, IL 60540  
 for  
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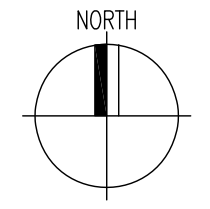
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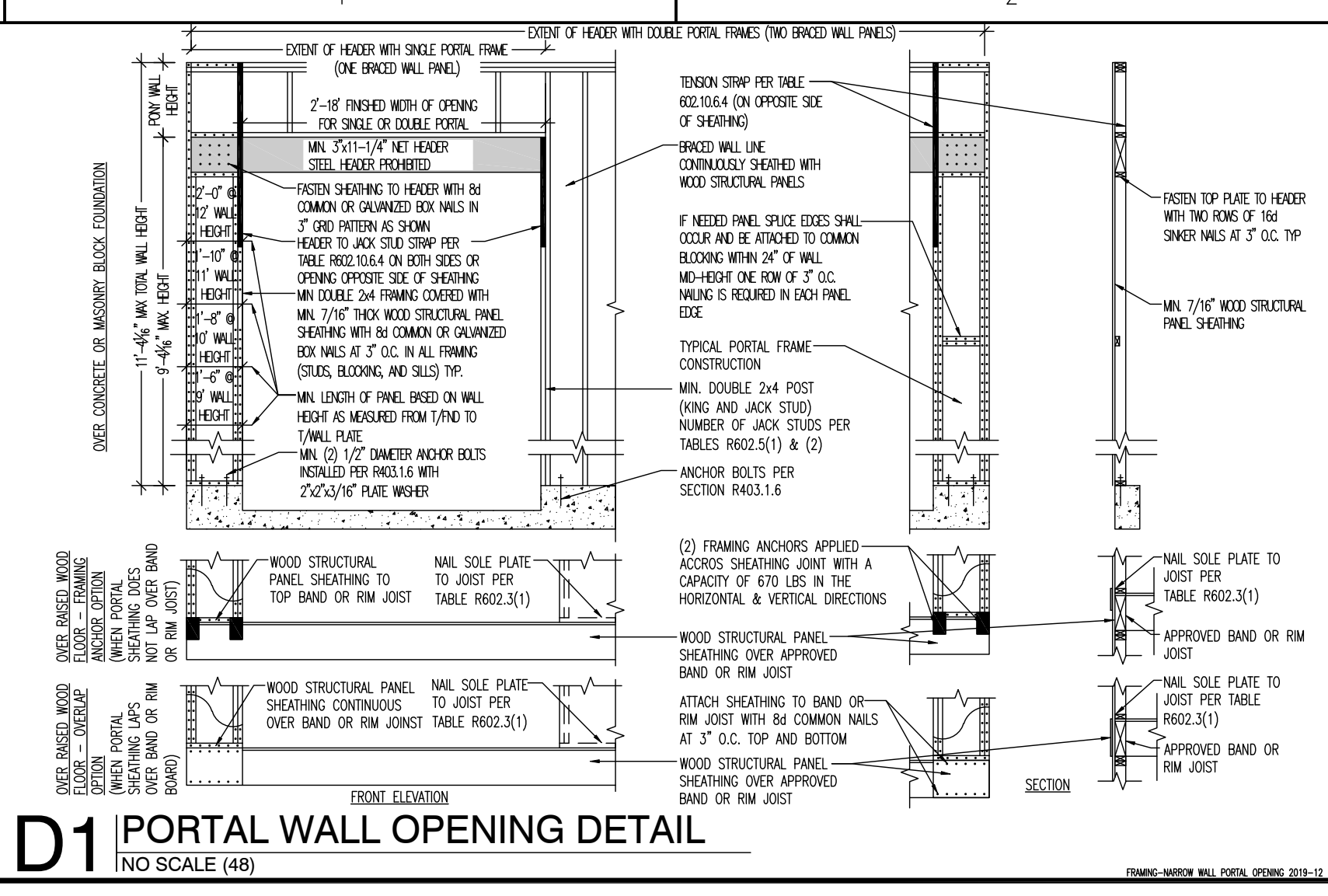
DRAWN BY:  
 EJP/AAM  
 CHECKED BY:  
 MAB

PROJECT NUMBER:  
 2510140

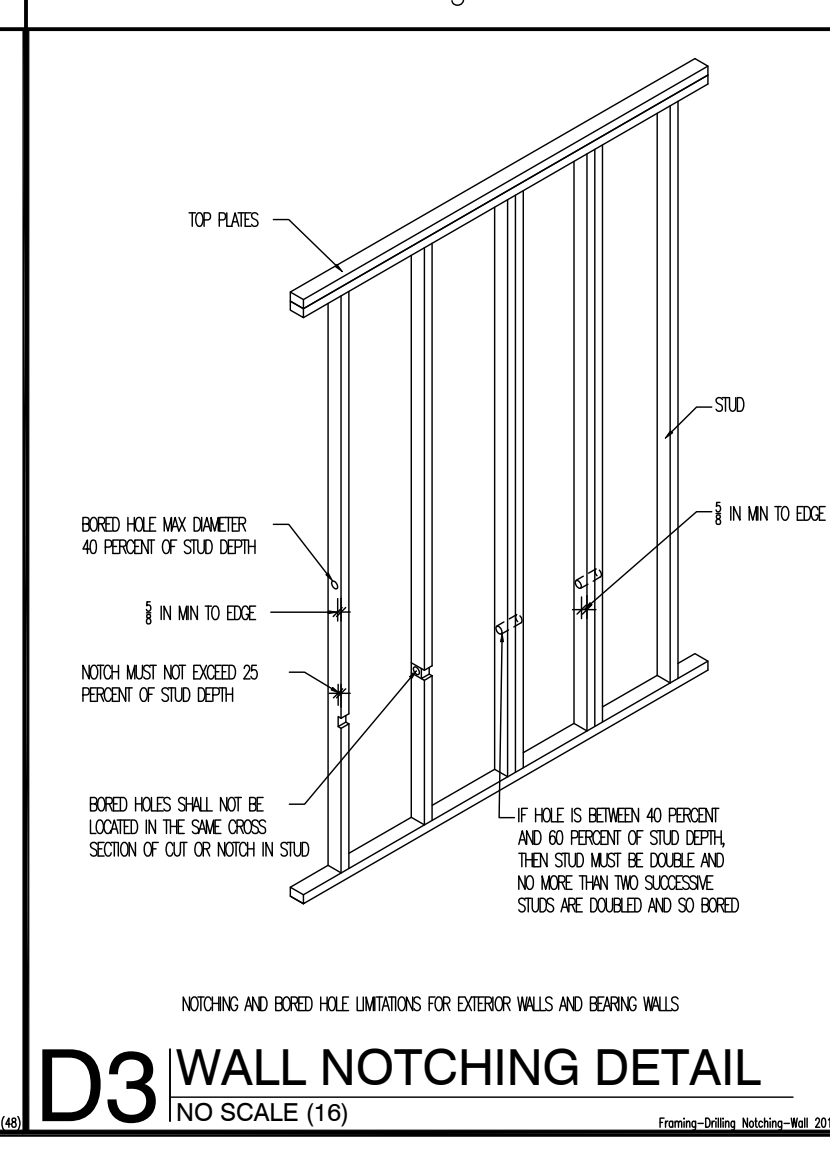
SHEET NUMBER:  
**A2.40**

**A6** FIRST FLOOR REFLECTED CEILING PLAN  
 1/4" = 1'-0"

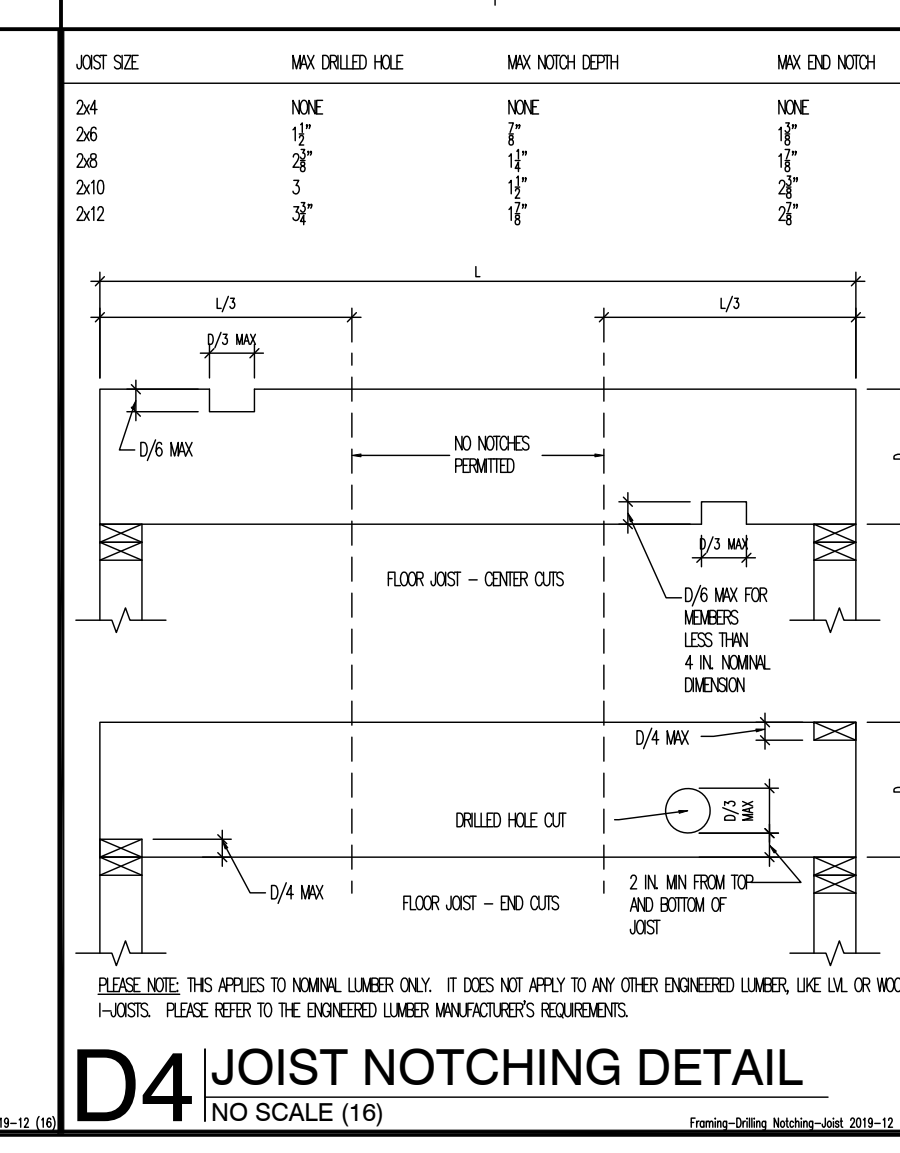




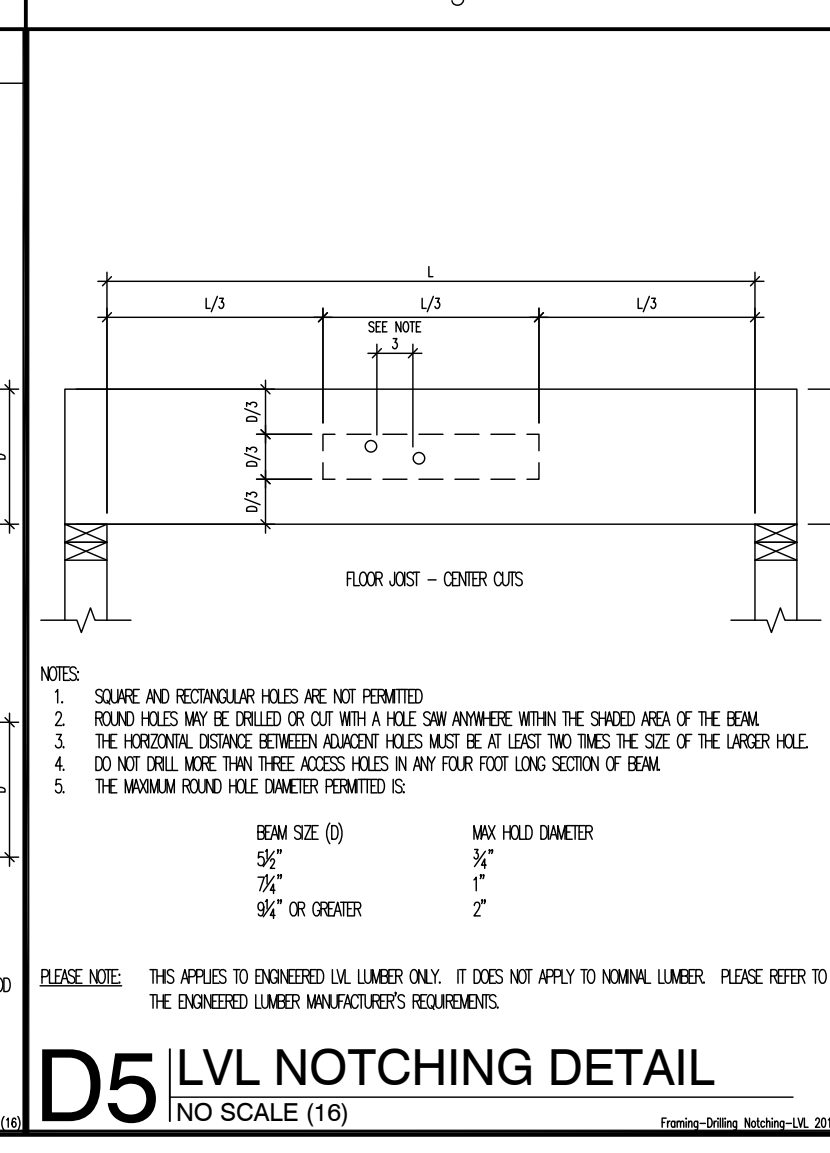
**D1 PORTAL WALL OPENING DETAIL**  
NO SCALE (48)



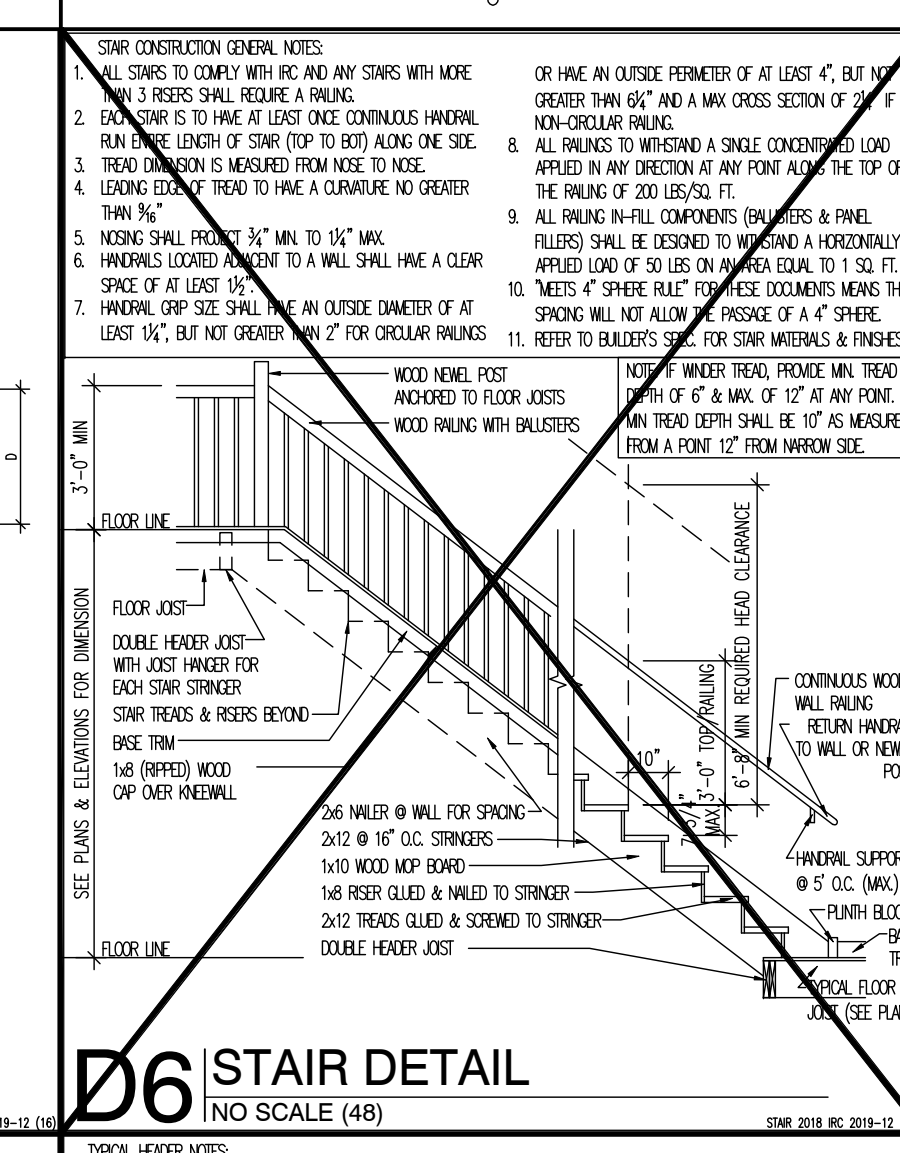
**D3 WALL NOTCHING DETAIL**  
NO SCALE (16)



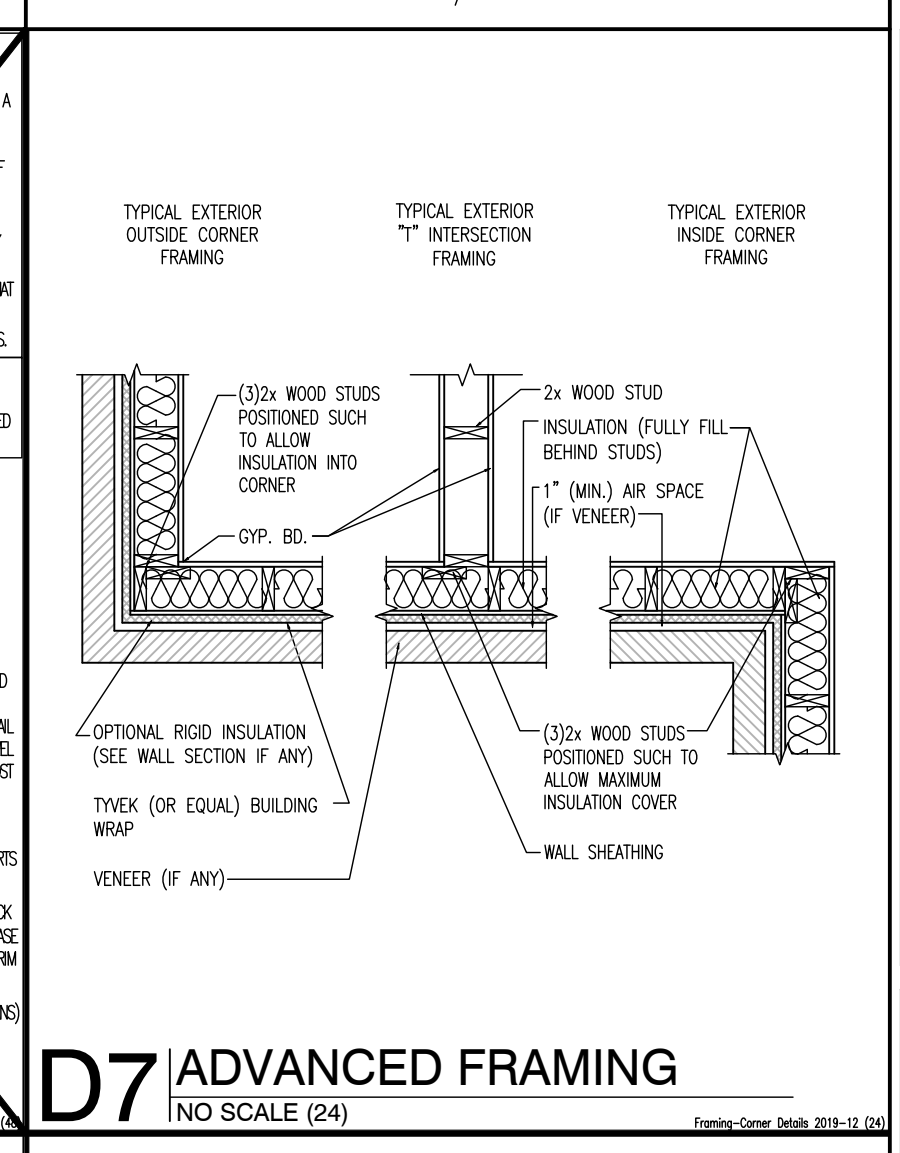
**D4 JOIST NOTCHING DETAIL**  
NO SCALE (16)



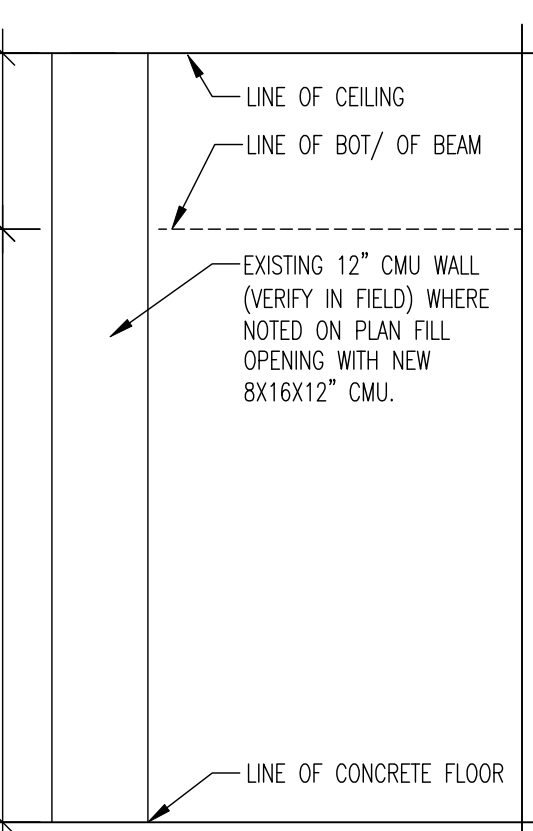
**D5 LVL NOTCHING DETAIL**  
NO SCALE (16)



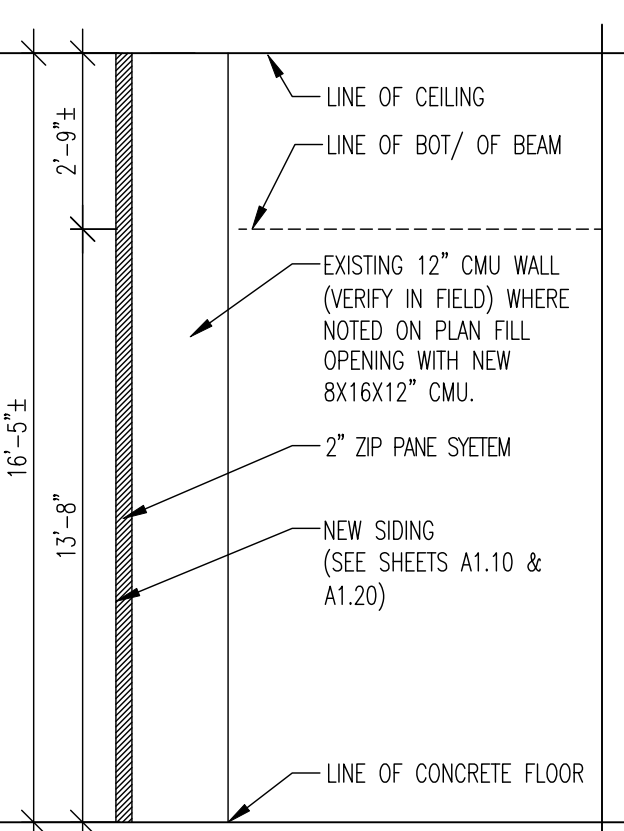
**D6 STAIR DETAIL**  
NO SCALE (48)



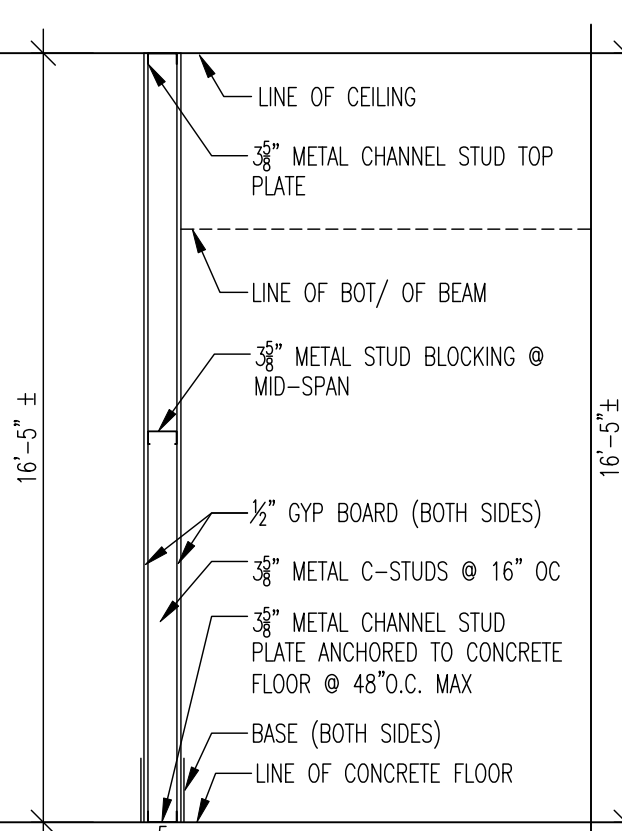
**D7 ADVANCED FRAMING**  
NO SCALE (24)



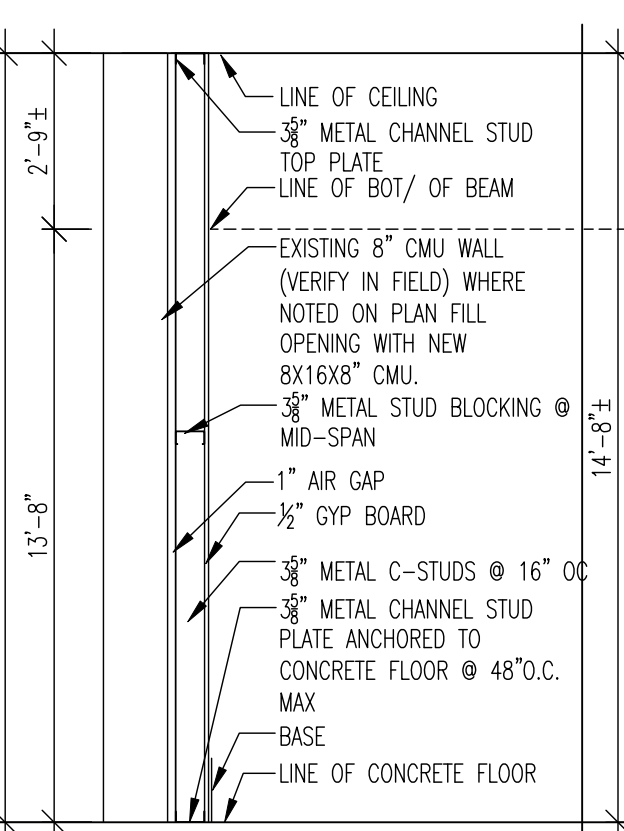
**E1 PARTITION TYPE EXISTING**



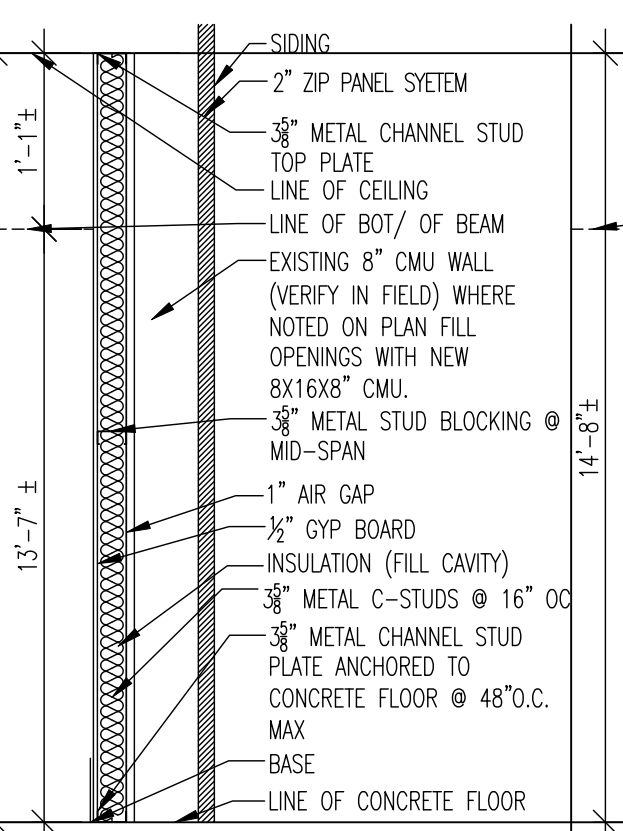
**P1 PARTITION TYPE EXTERIOR**



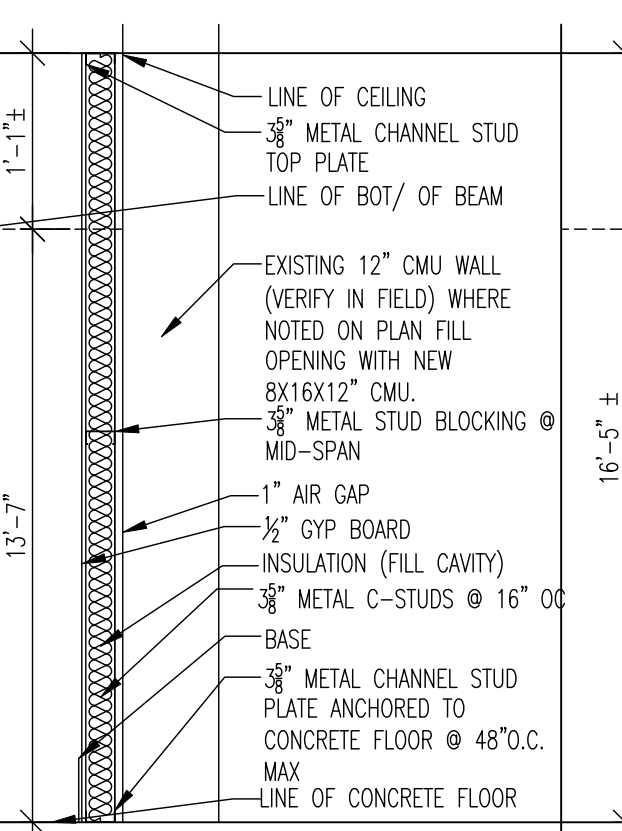
**P2 PARTITION TYPE**



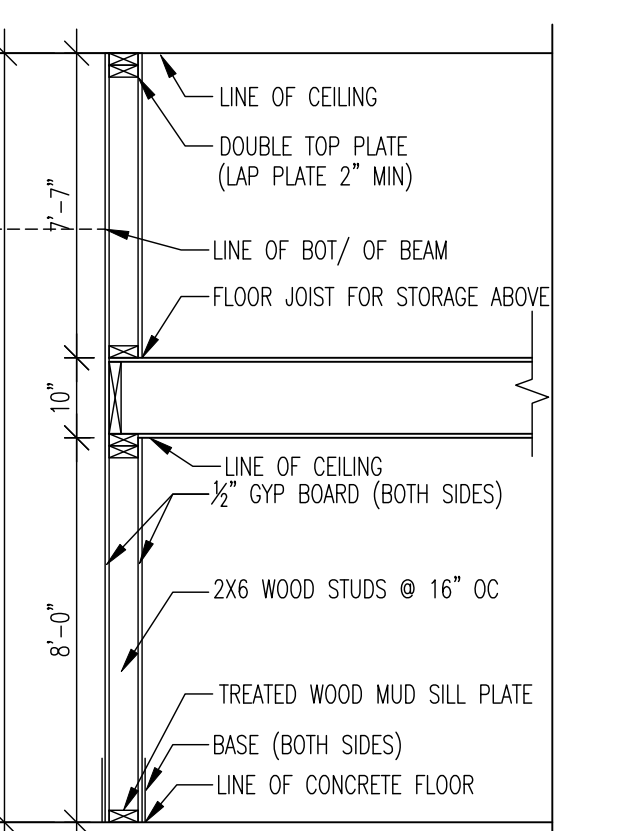
**P3 PARTITION TYPE**



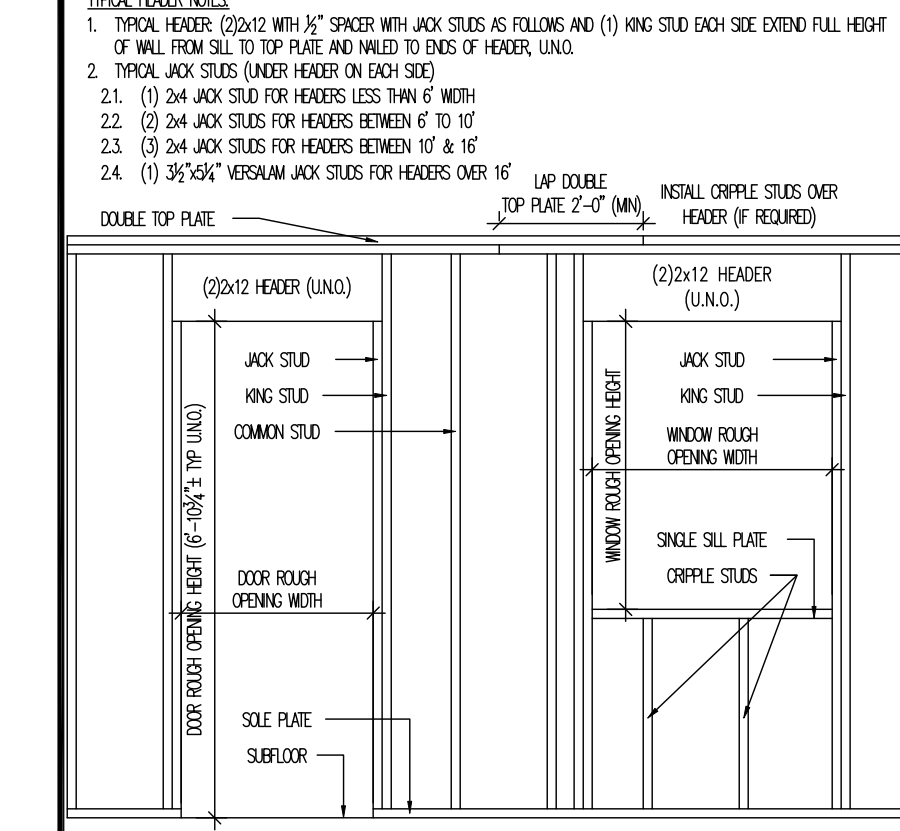
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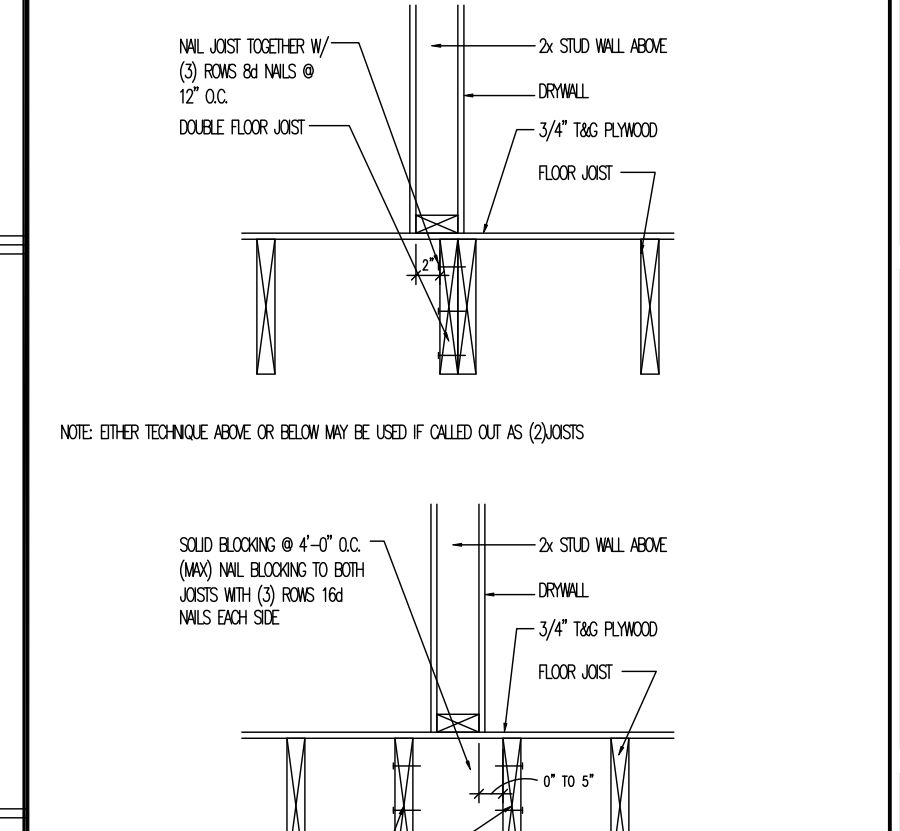
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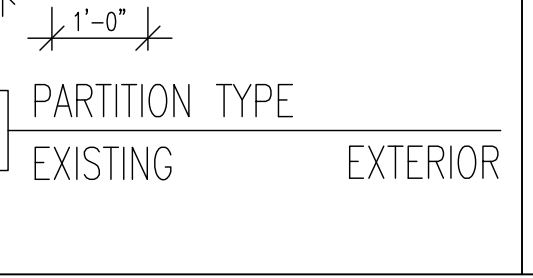
**P6 PARTITION TYPE**



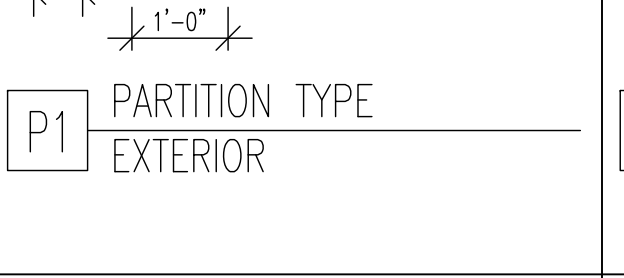
**C6 FRAMING DETAIL**  
NO SCALE (32)



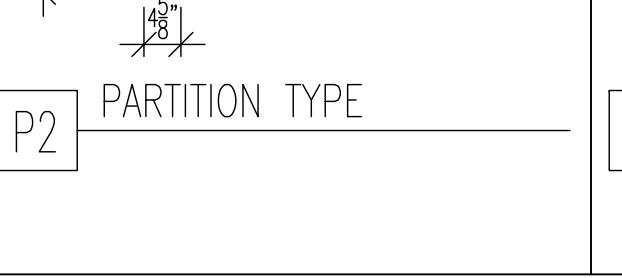
**C7 DOUBLE JOIST DETAIL**  
3/4" = 1'-0"



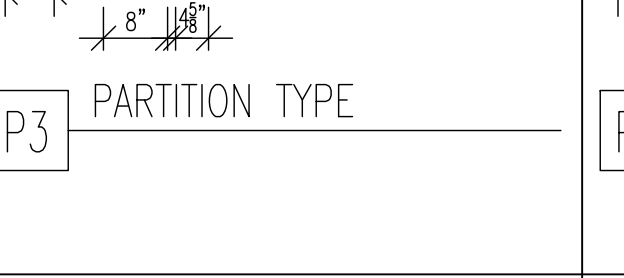
**E1 PARTITION TYPE EXISTING**



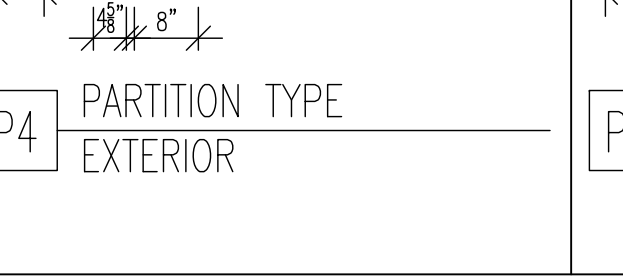
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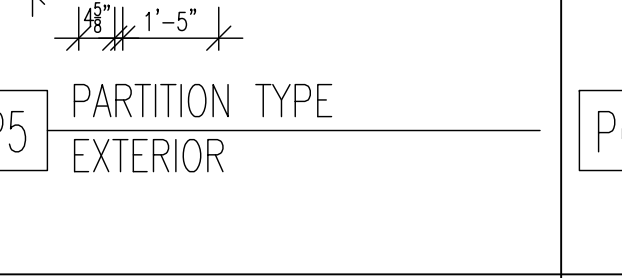
**P2 PARTITION TYPE**



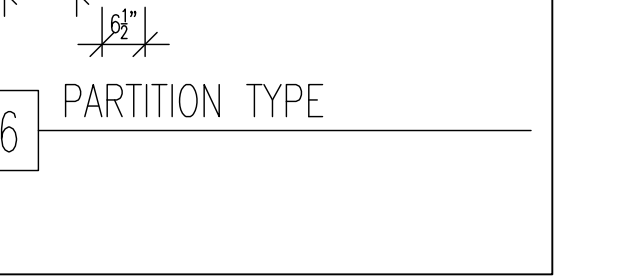
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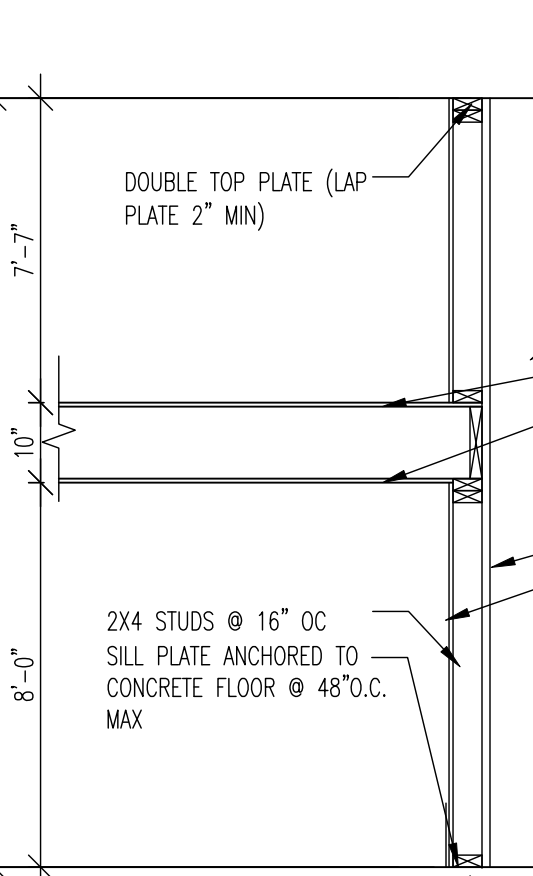
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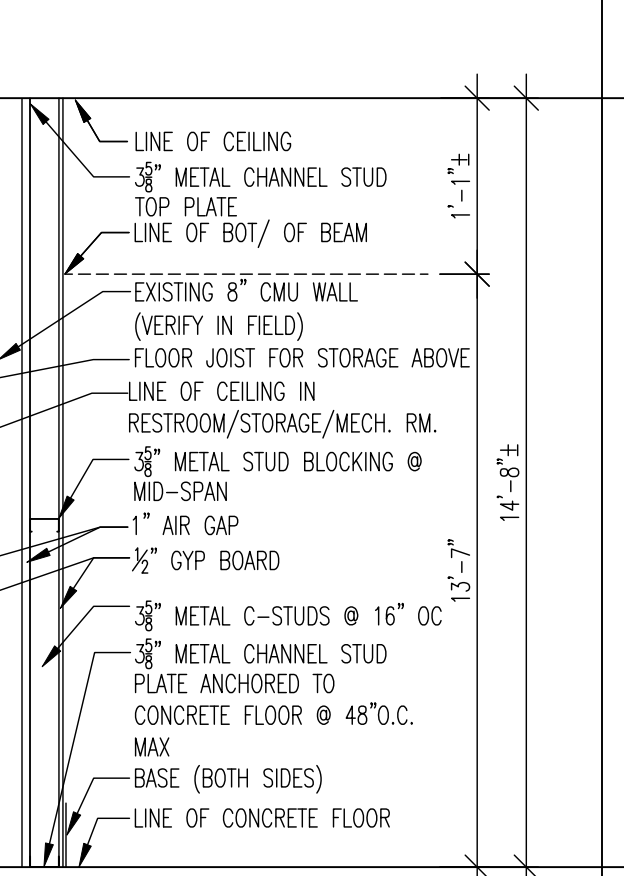
**P5 PARTITION TYPE EXTERIOR**



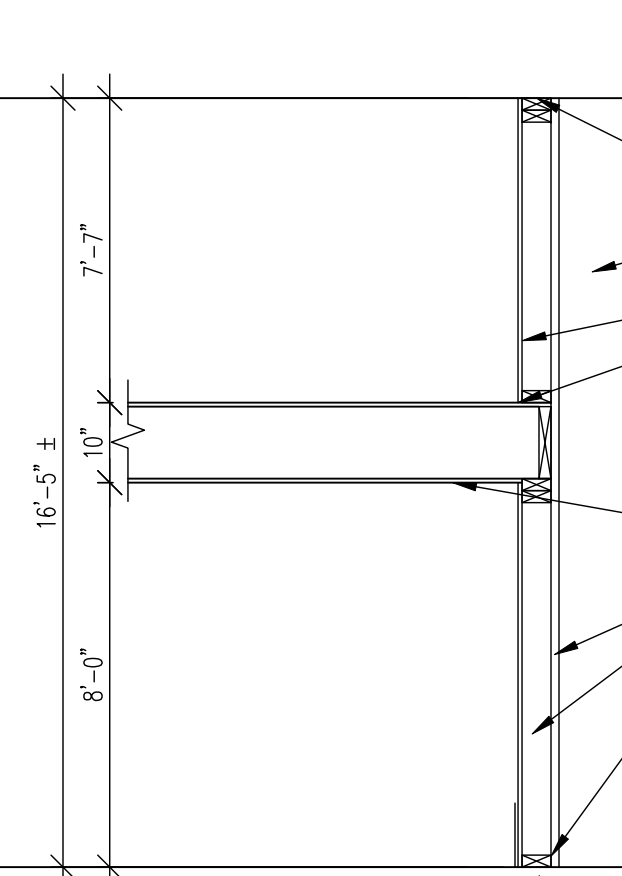
**P6 PARTITION TYPE**



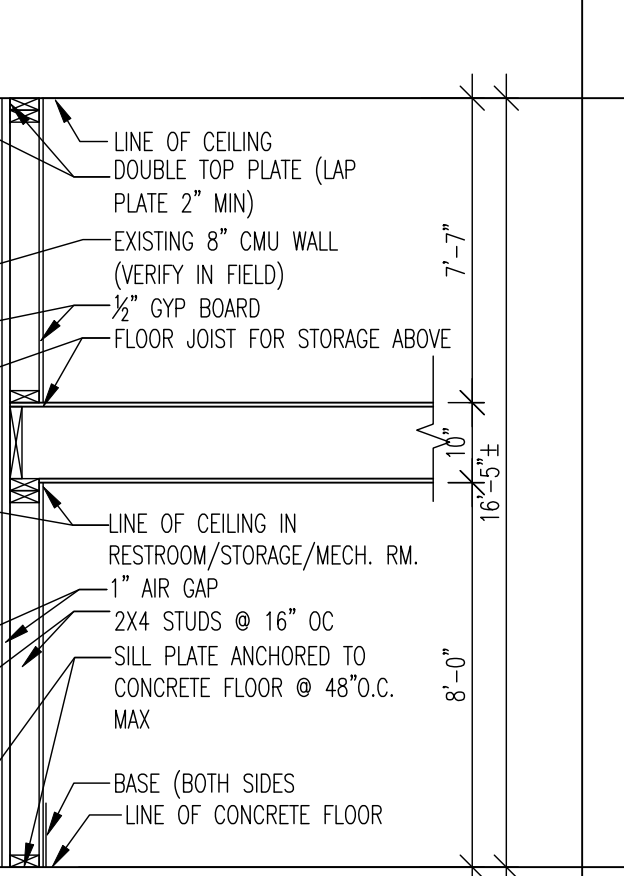
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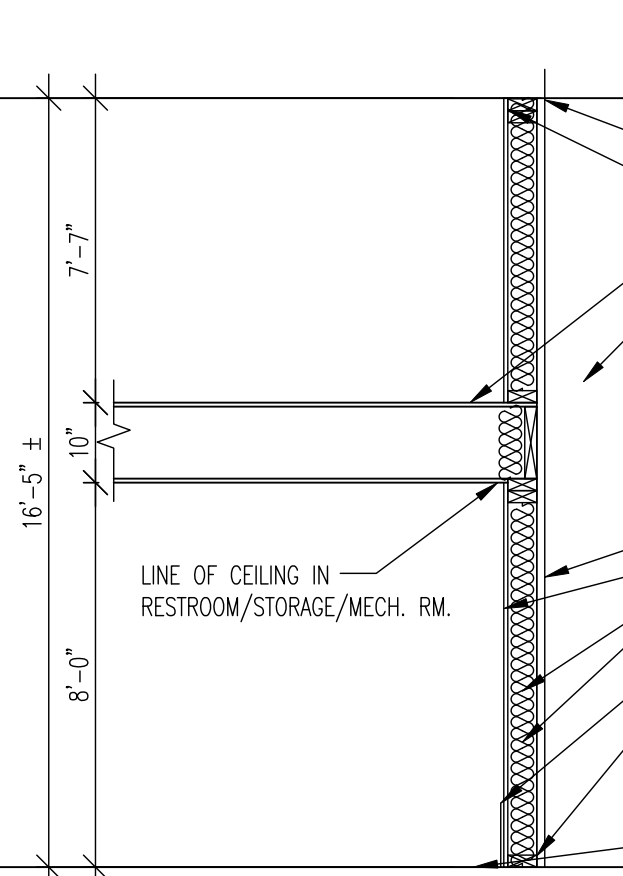
**P8 PARTITION TYPE**



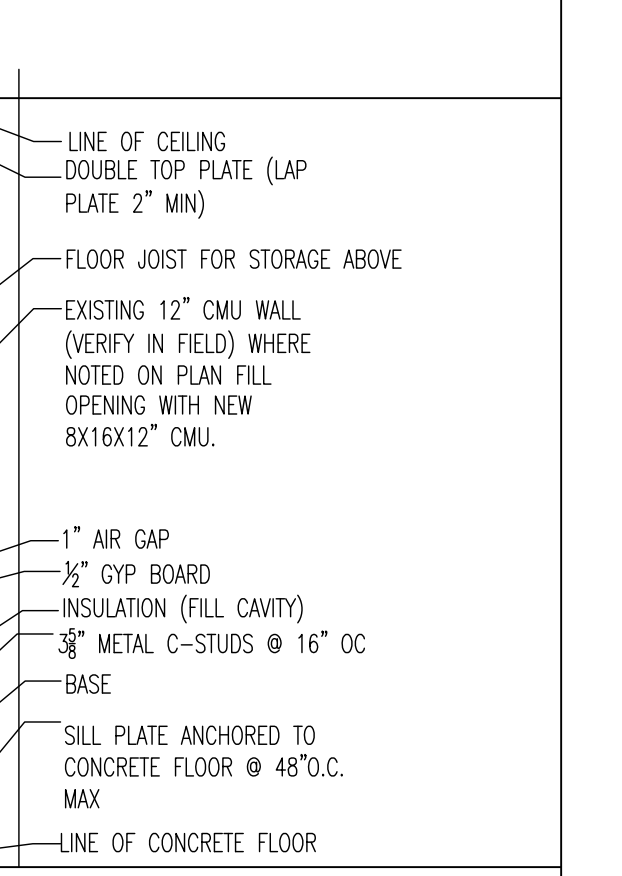
**P9 PARTITION TYPE EXTERIOR**



**P9 PARTITION TYPE EXTERIOR**



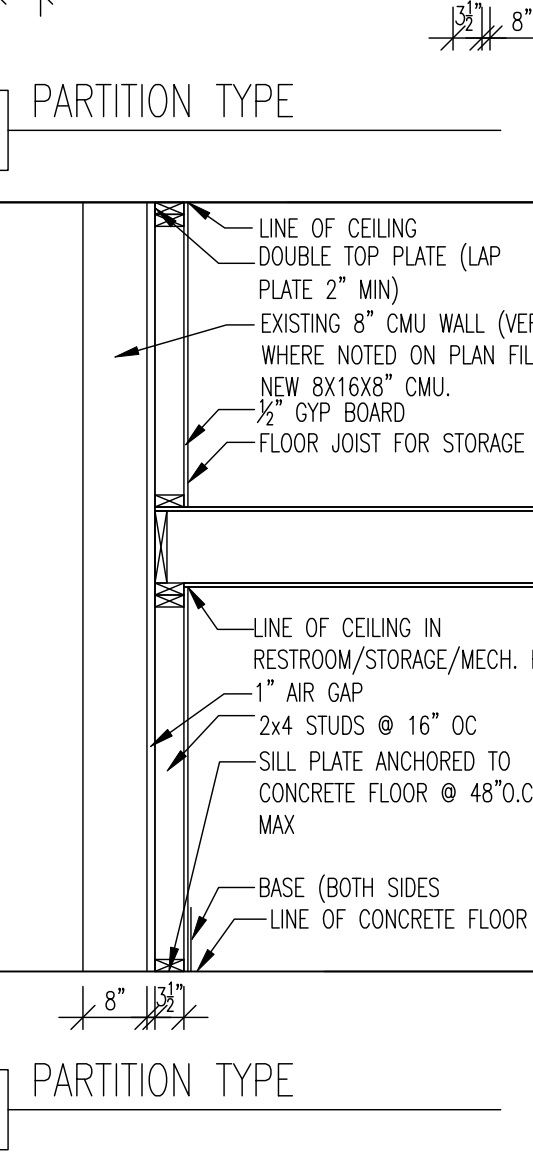
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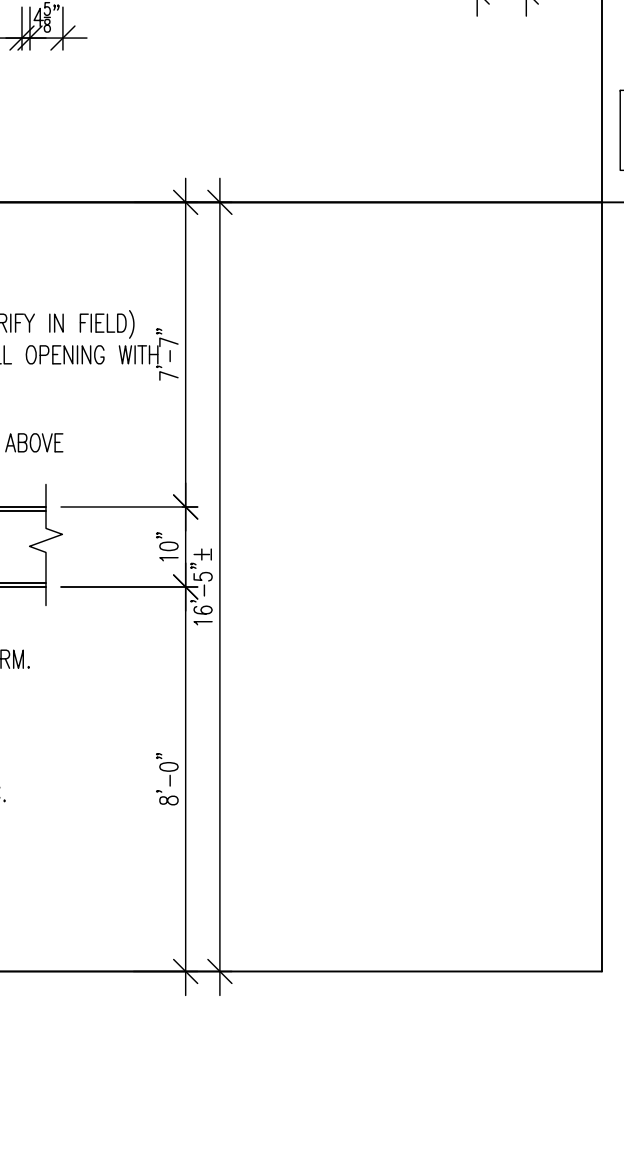
**P9 PARTITION TYPE EXTERIOR**



**P9 PARTITION TYPE EXTERIOR**



**A1 WALLS TYPES**  
N.T.S.



**A1 WALLS TYPES**  
N.T.S.



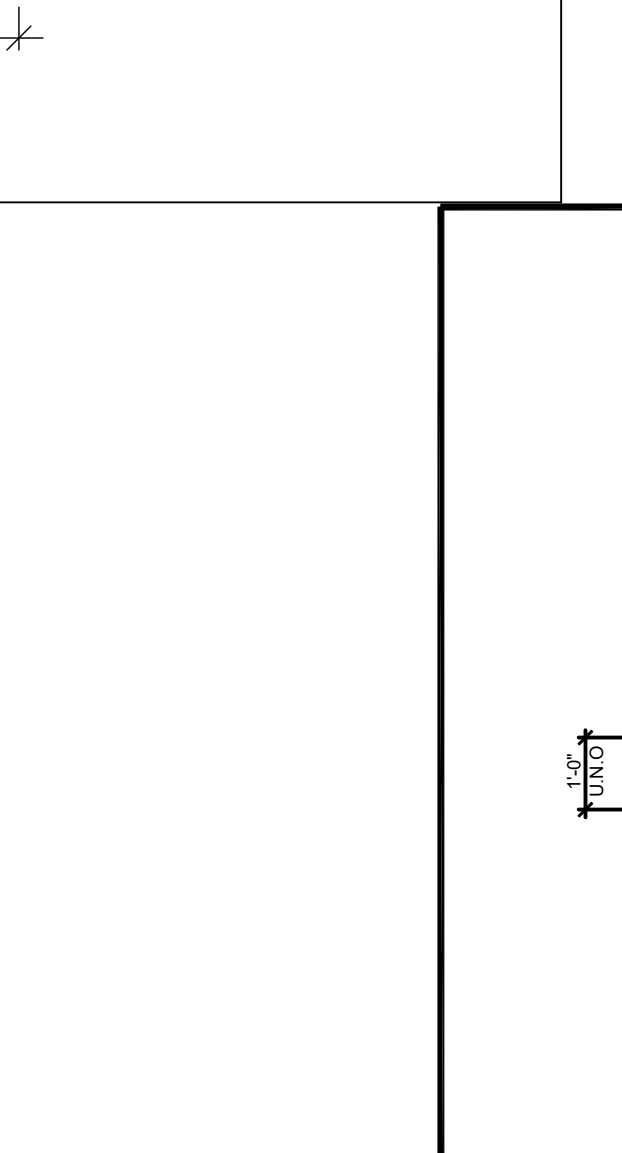
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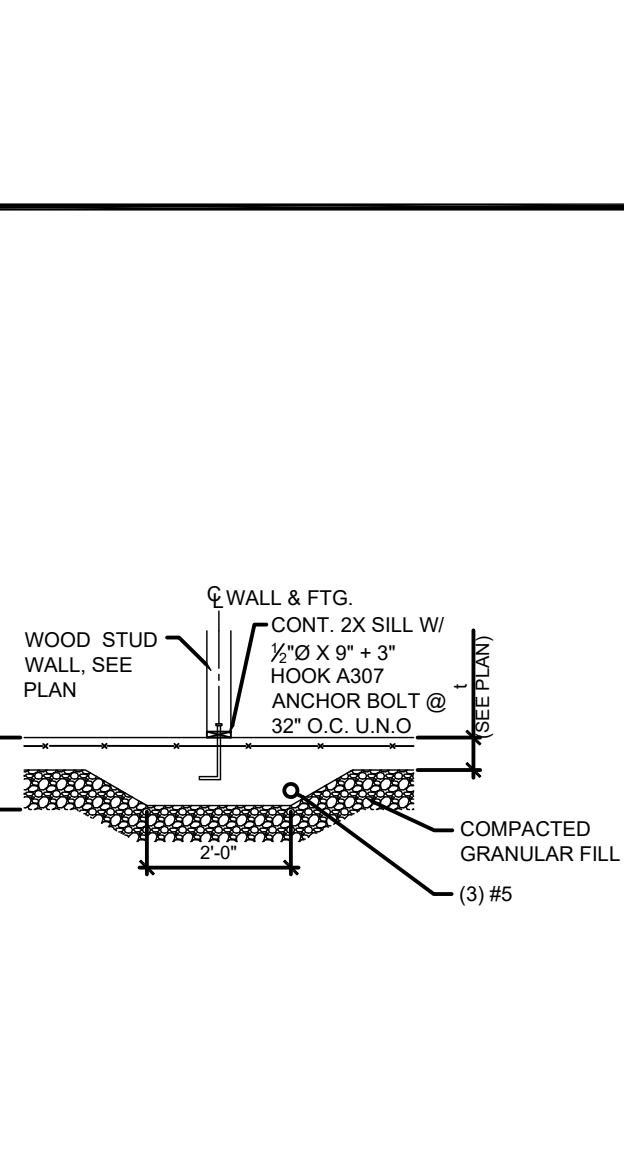
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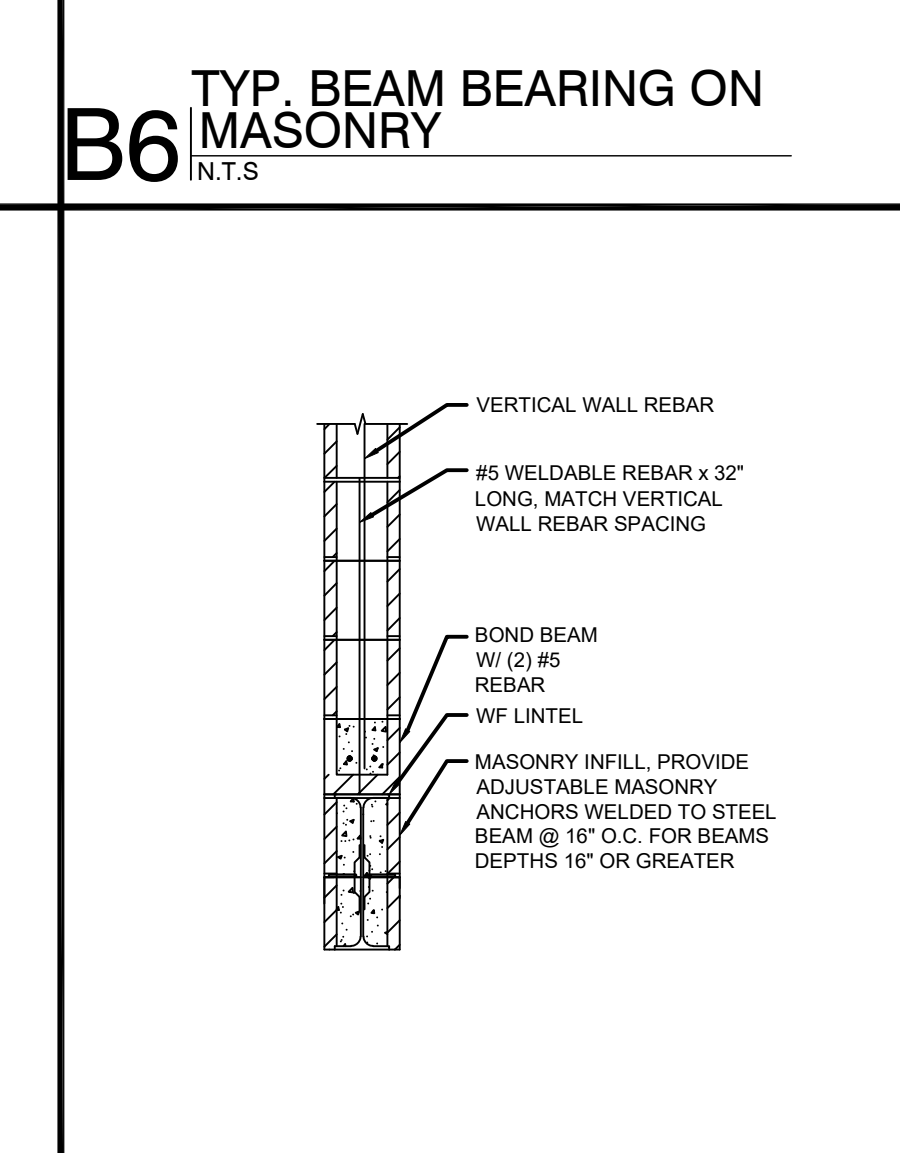
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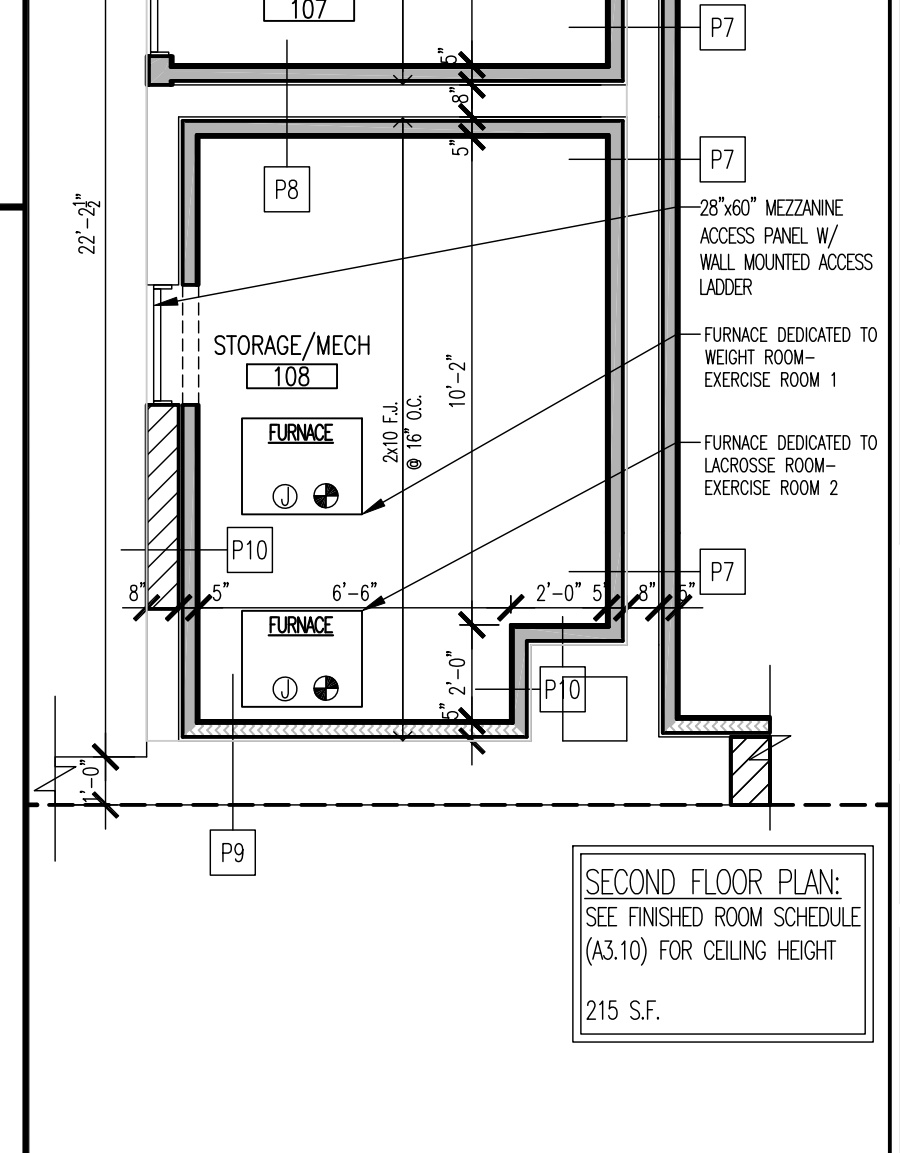
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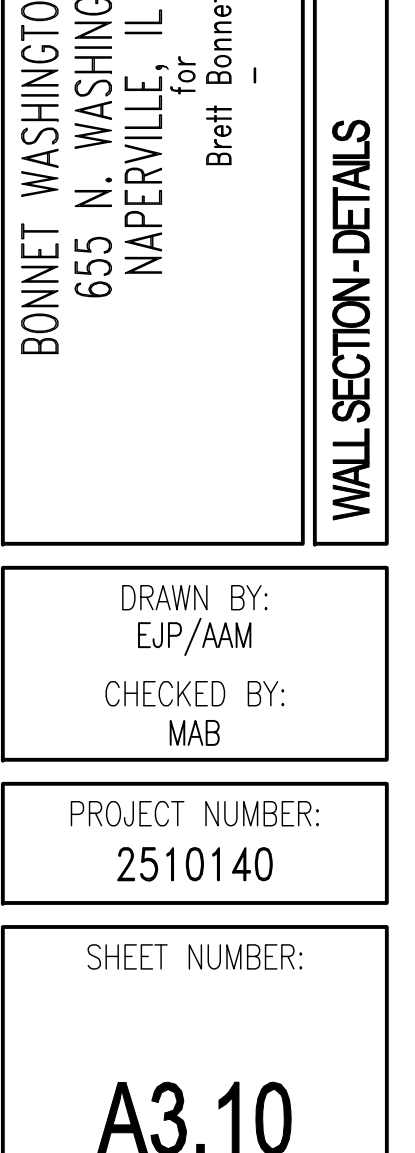
**A1 WALLS TYPES**  
N.T.S.



**A5 SECTION @ INTERIOR BEARING WOOD STUD WALL**  
N.T.S.



**A6 STEEL BEAM LINTEL**  
N.T.S.



**A7 MEZZANINE PLAN**  
1/4" = 1'-0"

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**ARCHITECT**

**BUILDER**

**STATE OF ILLINOIS**  
MICHAEL A. BURR  
001-015688  
03-10-2026 | 11-30-2026  
DATED | EXPIRES

03/10/2026 | 12/29/25 | PERMIT SET | PERMIT SET | DATE | ISSUANCE

**BONNET WASHINGTON BUILDING**  
655 N. WASHINGTON ST.  
NAPERVILLE, IL 60540  
for  
Brett Bonnett

**WALL SECTION - DETAILS**

DRAWN BY:  
EJP/AAM  
CHECKED BY:  
MAB

PROJECT NUMBER:  
2510140

SHEET NUMBER:  
**A3.10**

DOOR SCHEDULE										
DOOR #	DOOR			FRAME			HWDR. SET	COMMENTS	DOOR TAG	
	TYPE	WIDTH	HEIGHT	MATERIAL	FINISH	TYPE				MATERIAL
100-1	B	6'-0"	7'-10"	MTL/GLASS	PT-BLK	-	MTL	PT-BLK	2	EXISTING (REPLACED)
100-2	C	6'-0"	9'-0"	-	-	-	-	-	-	PROPOSED OVERHEAD METAL ROLL UP DOOR
100-3	C	9'-0"	9'-0"	-	-	-	-	-	-	EXISTING (REPLACED) OVERHEAD METAL ROLL UP DOOR
101-1	A	3'-0"	6'-8"	MTL	PT-BLK	-	MTL	PT-BLK	3	EXISTING (REPLACED)
102-1	A	3'-0"	6'-8"	MTL	PT-BLK	-	MTL	PT-BLK	3	PROPOSED
103-1	A	3'-0"	6'-8"	MTL	PT-BLK	-	MTL	PT-BLK	3	PROPOSED
103-2	A	3'-0"	6'-8"	MTL	PT-BLK	-	MTL	PT-BLK	3	PROPOSED
104-1	A	3'-0"	6'-8"	MTL	PT-BLK	-	MTL	PT-BLK	2	EXISTING (REPLACED)
104-2	A	3'-0"	6'-8"	MTL	PT-BLK	-	MTL	PT-BLK	2	EXISTING (REPLACED)
104-3	A	3'-0"	6'-8"	-	-	-	-	-	-	PROPOSED DRY WALL OPENING
105-1	A	3'-0"	6'-8"	MTL	PT-BLK	-	MTL	PT-BLK	3	PROPOSED
105-2	A	3'-0"	6'-8"	MTL	PT-BLK	-	MTL	PT-BLK	2	PROPOSED

LEGEND: SEE THIS SHEET FOR DOOR TYPES & FRAME TYPES (IF ANY)			
ALUM	ALUMINUM	HM	HOLLOW METAL
CMU	CONCRETE MASONRY UNIT	MTL	METAL - MANUFACTURER P/C CLAD COLOR: MATTE BLACK
EX	EXISTING	PT	PAIN - COLOR BLACK

LEGEND: EX EXISTING FLOORS / BASES:		WALLS:		CEILING:	
F-1	CONCRETE	P-1	PAIN (WASHABLE)	C-1	DRYWALL
F-2	SHEET VINYL FLOORING	T-1	CERAMIC TILE TO 48" AFF. (SIZE/COLOR TO BE DETERMINED) PAIN (WASHABLE) ABOVE WASHABLE FRP PANEL	C-2	2"x4" SUSPENDED ACT
B-1	CARPET	R-1		C-3	UNFINISHED
V-1	4" VINYL CORE BASE				
V-2	CERAMIC TILE BASE				

- GENERAL FINISH NOTES:**
- ALL NEW DOOR HARDWARE TO MEET ADA & IAC REQUIREMENTS & NOT TO NEED ANY SPECIAL KNOWLEDGE OR KEY TO EXIT SPACE.
  - EXISTING DOOR HARDWARE TO BE REUSED WHERE POSSIBLE, BUT IT MUST MEET ALL EGRESS, ADA & IAC REQUIREMENTS. IF NOT, IT SHALL BE CORRECTED.
  - ALL DOORS SHALL BE KEYLESS IN THE DIRECTION OF EGRESS.
  - CONTROL AND OPERATING MECHANISM SHALL BE OPERATED WITH ONE HAND AND NOT REQUIRE THE TWISTING OF THE WRIST AND HAVE A MAXIMUM FORCE OF 5 LBS TO OPERATE THE CONTROLS.
  - VERIFY ALL LOCK FUNCTIONS & KEY ASSIGNMENTS W/OWNER.
  - ALL LOCK FUNCTIONS SHALL BE KEYLESS IN DIRECTION OF EGRESS.
  - WHERE POSSIBLE & IF NO CLOSER, ALLOW ALL DOORS 180° OPERATION.
  - VERIFY EXISTING EXIT HARDWARE & DOOR CLOSER IS FUNCTIONING PROPERLY AND IN GOOD WORKING ORDER & THRESHOLD MEETS CURRENT ADA & IAC REQUIREMENTS. IF NOT, THEN REPLACE @ ADDITIONAL COST TO OWNER.
  - CONTRACTOR TO VERIFY ALL OPENING SIZES & JAMB, HEAD, & SILL CONDITIONS PRIOR TO ORDERING. ADJUST H.M. FRAME SIZES AS REQUIRED TO FIT INTO EXISTING CMU OPENING. HOWEVER DO NOT REDUCE DOOR SIZE.
  - ALL DOOR LATCHES (NEW & EXISTING) SHALL SINGLE ACTION. BOLTS SHALL BE AUTO.
  - MAXIMUM FORCE FOR ALL DOOR CLOSERS TO BE 4 LB PULL AT INTERIOR DOORS & 8 LB PULL AT EXTERIOR DOORS.
  - ALL DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO AN OPEN POSITION OF 12 DEGREES.
  - CONTRACTOR SHALL VERIFY ALL DOOR CLOSERS CLOSE AND LATCH DOOR CLOSER.
  - ALL DOOR CLOSERS SHALL MEET OPENING FORCE AND SWEEP PERIOD REQUIREMENTS. IF EXISTING DOOR CLOSERS DO NOT MEET, THEN THEY SHALL BE REPLACED @ ADDITIONAL COST TO OWNER.
  - PROVIDE THRESHOLDS AT ALL INTERIOR DOORS WHERE THERE IS A CHANGE IN FLOOR MATERIAL.
  - ALL THRESHOLDS TO BE 1/2" MAX ADA. DOOR THRESHOLD IN EXCESS OF 1/2" IN HEIGHT SHALL HAVE A 1/2 BEVEL.
  - EXTERIOR THRESHOLDS TO REMAIN, UNLESS THEY DO NOT MEET ADA EGRESS REQUIREMENTS. THEN THEY SHALL BE REMOVED AT ADDITIONAL COST TO OWNER.
  - ALL INTERIOR DOORS KNOBS SHALL BE ADA APPROVED LEVER TYPE KNOBS.
  - ALL DOOR HARDWARE TO BE RATED FOR HEAVY DUTY USE.
  - PROVIDE 3 SETS OF KEYS TO OWNER WITH MASTER & CONSTRUCTION MASTER.
- DOOR HARDWARE SETS:**
- HARDWARE SET 1:**
- HINGES..... 3 PAIR
  - KNOB SET..... PUSH/PULL BAR PASSAGE (ADA COMPLIANT)
  - CLOSER..... (2) 3-LB FORCE/3 SECOND SWEEP PERIOD
  - WEATHERSTRIPPING..... YES
  - DEAD BOLTS..... KEY W/HUMB TURN (ADA COMPLIANT)
  - THRESHOLD..... YES (ADA COMPLIANT)
- HARDWARE SET 2:**
- HINGES..... 1 1/2 PAIR
  - KNOB SET..... PUSH/PULL BAR PASSAGE (ADA COMPLIANT)
  - CLOSER..... (1) 3-LB FORCE/3 SECOND SWEEP PERIOD
  - WEATHERSTRIPPING..... YES
  - WALL STOP..... YES
  - THRESHOLD..... NONE
- HARDWARE SET 3:**
- HINGES..... 1 1/2 PAIR
  - KNOB SET..... (1) LEVER (PRIVACY) W/KEY (ADA COMPLIANT)
  - WALL STOP..... YES
  - THRESHOLD..... NONE
- HARDWARE SET 4:**
- HINGES..... 1 1/2 PAIR
  - KNOB SET..... (1) LEVER (PRIVACY) (ADA COMPLIANT)
  - CLOSER..... (1) 3-LB FORCE/3 SECOND SWEEP PERIOD
  - WEATHERSTRIPPING..... YES
  - WALL STOP..... YES (ADA COMPLIANT)
  - THRESHOLD..... YES (ADA COMPLIANT)
- HARDWARE SET 5:**
- HINGES..... 1 1/2 PAIR
  - KNOB SET..... (1) PULL/PUSH PLATE (PASSAGE) (ADA COMPLIANT)
  - CLOSER..... (1) 3-LB FORCE/3 SECOND SWEEP PERIOD
  - WALL STOP..... YES
  - THRESHOLD..... NONE

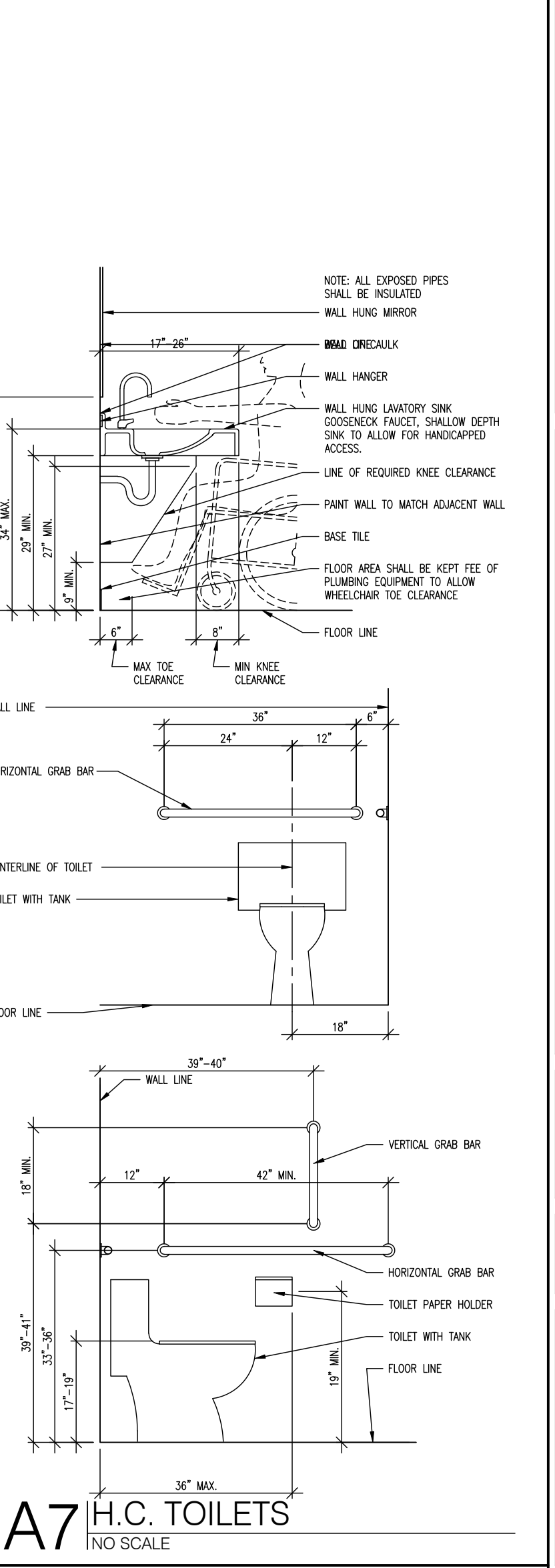
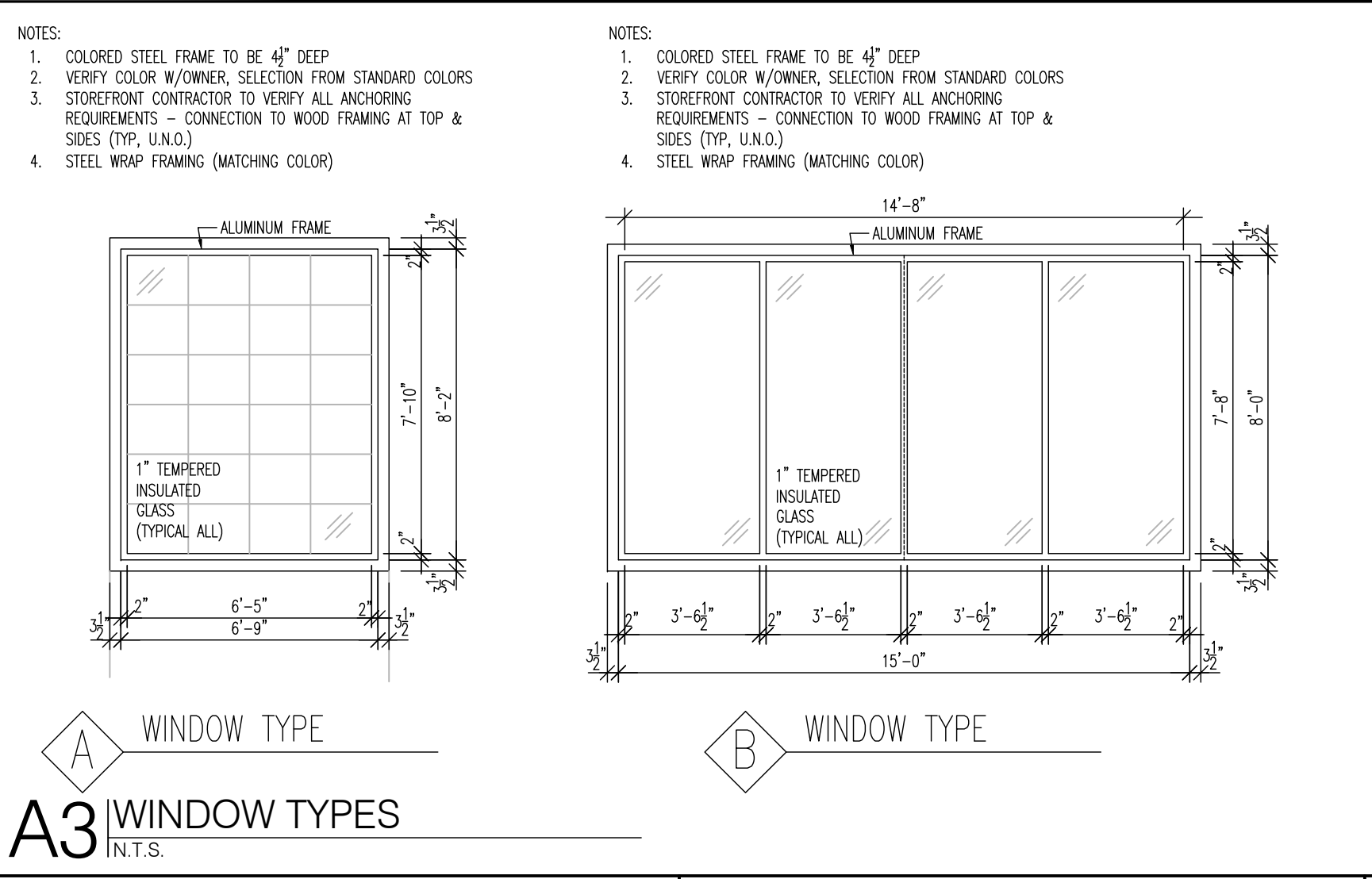
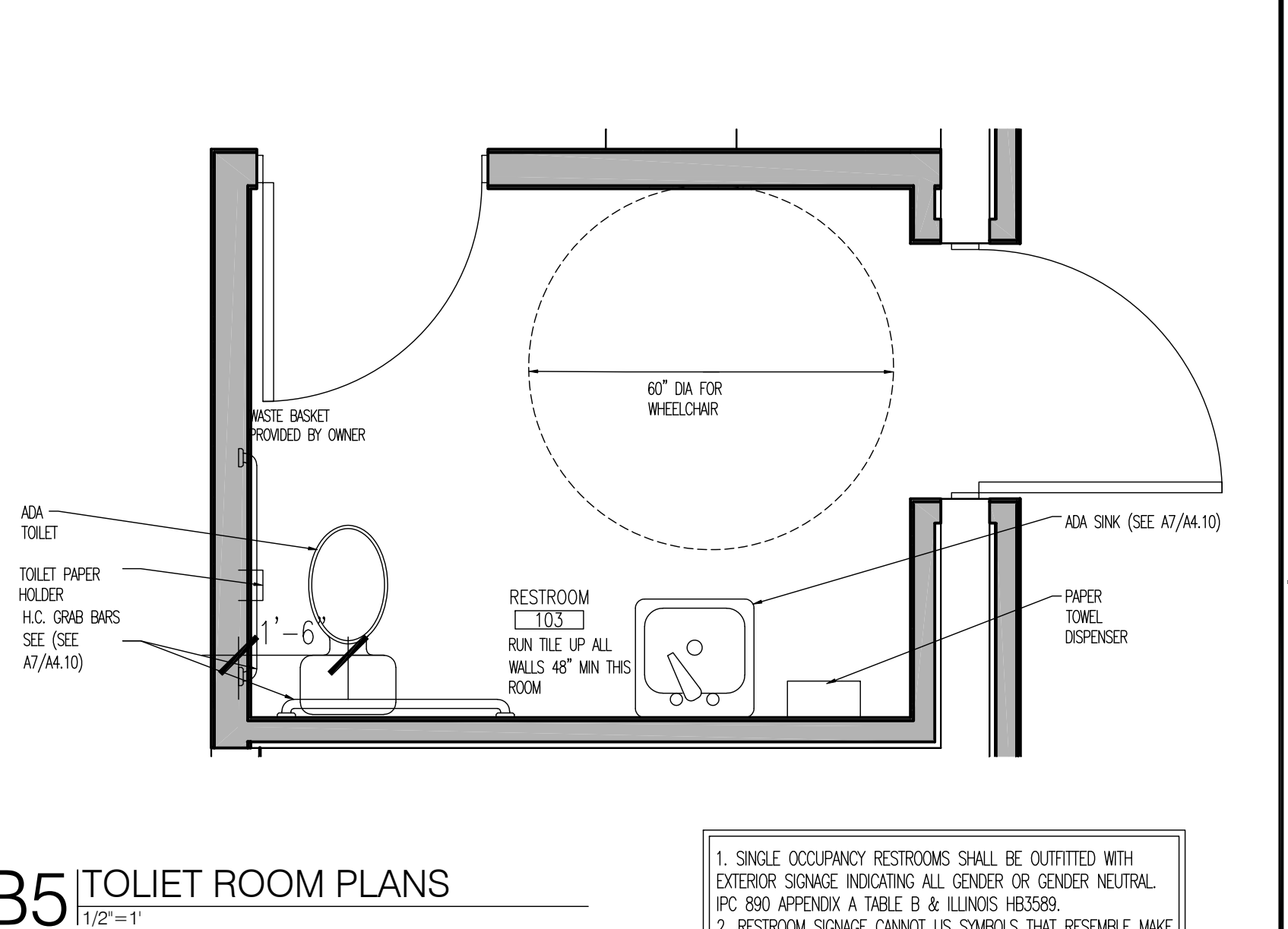
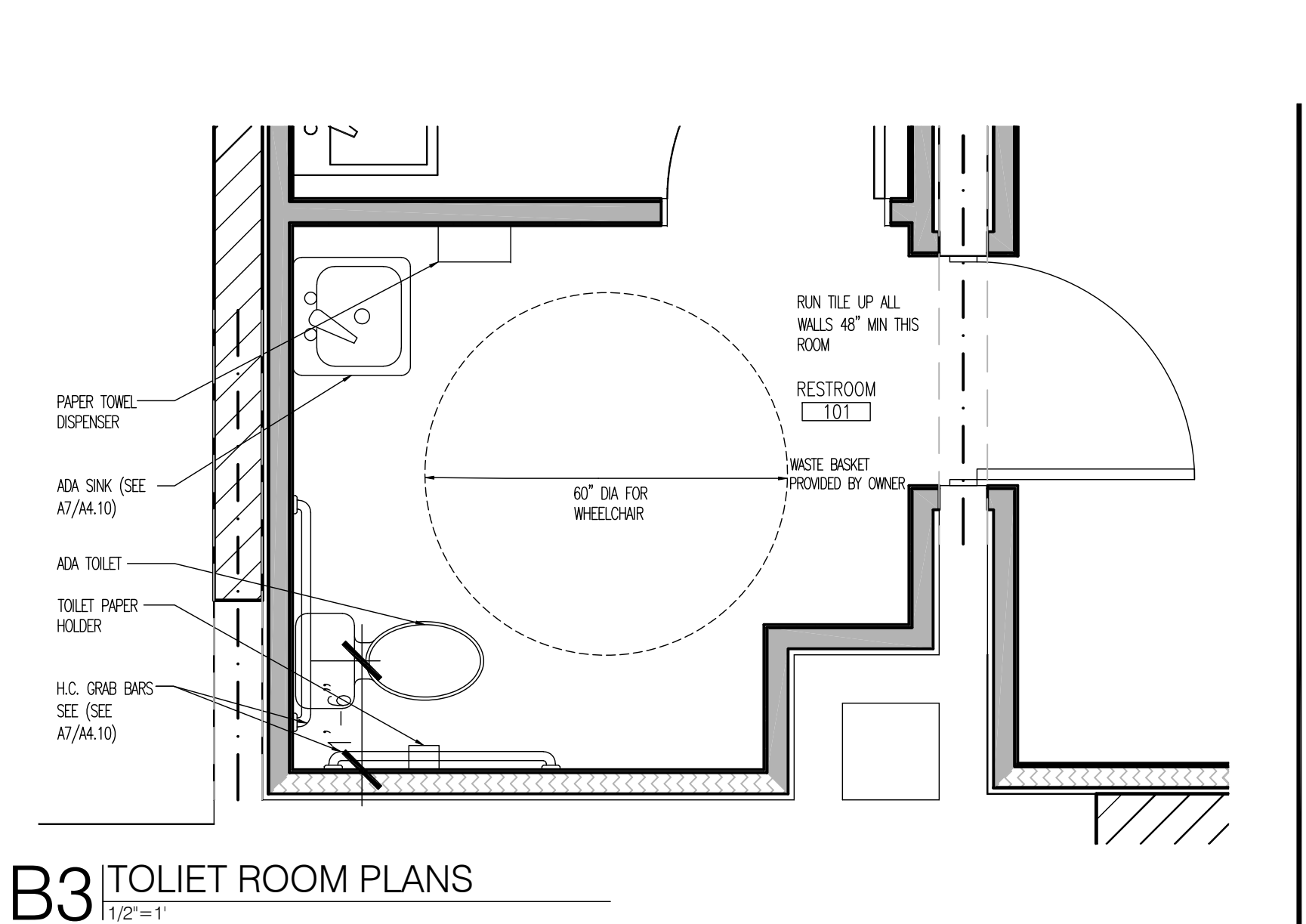
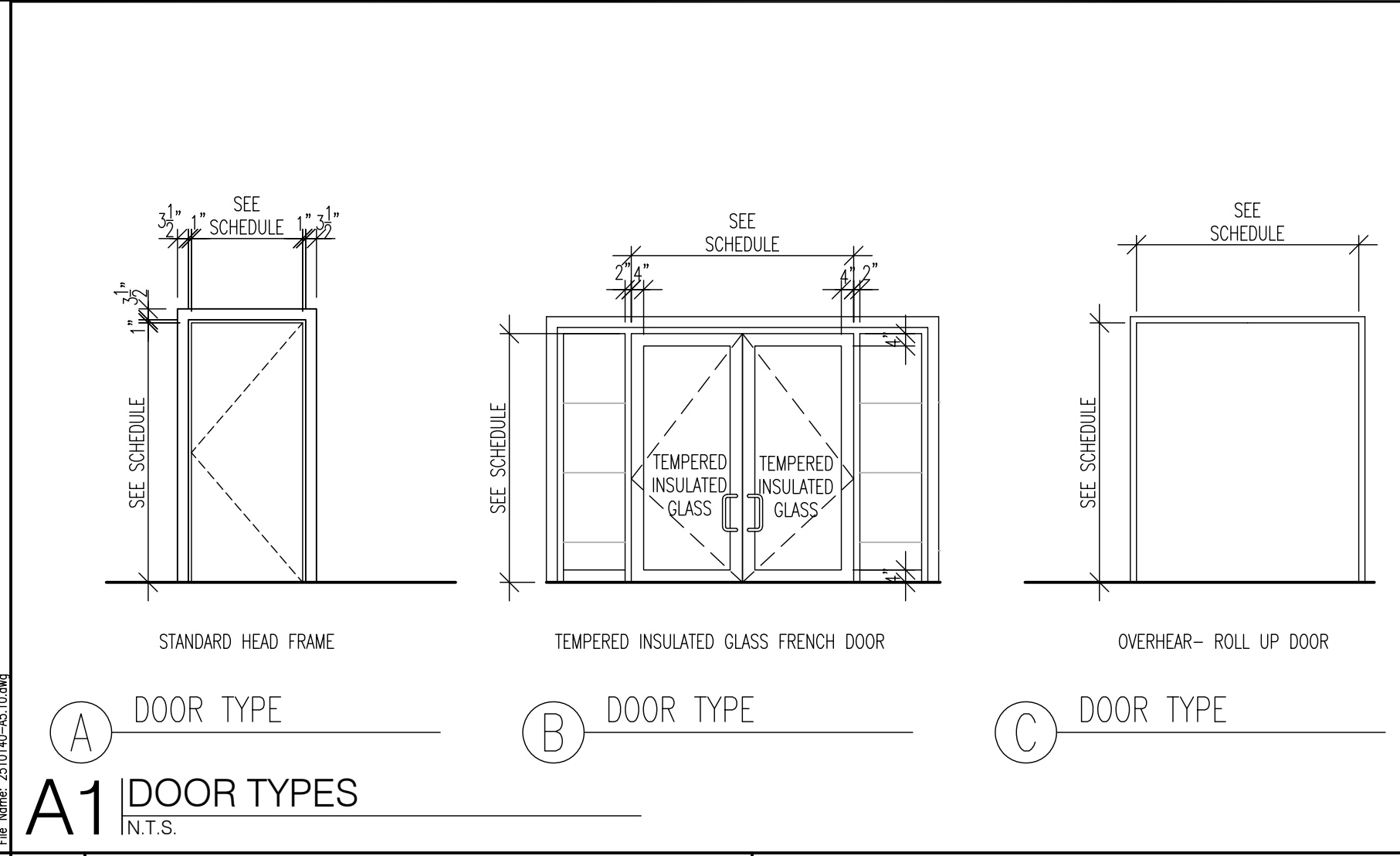
ROOM FINISH SCHEDULE									
ROOM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING	HEIGHT	TRIM	COMMENTS	
100	WEIGHT ROOM	F-1	V-1	P-1	C-3	14'-4"	-	RAISE FLOOR IN ROOM (SAME HEIGHT AS LACROSSE RM.)	
101	RESTROOM	F-1	V-1	T-1	C-1	8'-0"	-	MECHANICAL/ STORAGE ABOVE	
102	STORAGE	F-1	V-1	R-1	C-1	8'-0"	-	MECHANICAL/ STORAGE ABOVE	
103	RESTROOM	F-1	V-1	T-1	C-1	8'-0"	-	MECHANICAL/ STORAGE ABOVE	
104	NOT USED	-	-	-	-	-	-	-	
105	LACROSSE ROOM	F-1	V-1	P-1	C-3	16'-5"	-	PROTECTIVE MESH OVER ENTIRE CEILING/ WALL PADDING	
106	SPRINKLER	F-1	V-1	P-1	C-3	16'-5"	-	-	
107	STORAGE/MECH.	F-2	V-1	P-1	C-3	7'-7"	-	MEZZANINE	
108	STORAGE/MECH.	F-2	V-1	P-1	C-3	7'-7"	-	MEZZANINE	

- LEGEND: EX EXISTING FLOORS / BASES:**
- WALLS:**
- CEILING:**
- SCHEDULE NOTES:**
- ALL COLORS TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS. ANY BASE TRIM (PAINTED) OWNER TO SELECT FROM STANDARD PROFILES.
  - PROVIDE USG 15/116" Dlx/DLX2 ACoustical SUSPENSION METAL GRID SYSTEM WITH USG EQUIPE ILLUSION AND PEDESTALS ACoustical PANELS WITH 2"x4" SCORED PATTERN AND SHADOWLINE TAPERED EDGE (OR APPROVED EQUAL) (COLORS SELECTED BY TENDANT FROM STANDARD COLORS)

- GENERAL FINISH NOTES:**
- OWNER SHALL SELECT ALL INTERIOR FINISHES WITH CONTRACTOR.
  - CONTRACTOR TO PROVIDE FULL SIZE SAMPLES OF ALL FINISHED PRODUCTS FOR OWNER APPROVAL. PROVIDE 1"x1" PAINT SQUARES ON ACTUAL WALL OR ON SAME MATERIAL WITH SAME PRIMER FOR OWNER APPROVAL. PICTURES AND SWATCH SAMPLES MAY BE USED FOR PRELIMINARY APPROVAL BUT THEY ARE NOT ACCEPTABLE FOR FINAL OWNER APPROVAL.
  - CONTRACTOR TO COORDINATE ALL FINISH WORK WITH VARIOUS TRADES AND AVOID PAINTING OF FINISHES DUE TO IMPROPER SEQUENCING OF INSTALLATIONS.
  - ALL INTERIOR FINISH MATERIALS ON THE WALLS AND CEILING SHALL HAVE A SMOKE DEVELOPMENT RATING OF 450 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84
  - ALL INTERIOR FINISH MATERIALS FOR FLOORS, WALLS AND CEILING SHALL HAVE A FLAME SPREAD RATING OF 75 OR LESS.
- FRAMING NOTES:**
- ALL WALLS ARE ASSUMED TO BE NON-STRUCTURAL, U.N.O.
  - ALL PARTITION FRAMING MEMBERS SHALL BE STEEL STUDS (18 GA OR BETTER).
  - ALL WOOD (IF ANY) IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
  - ALL FRAMED WALLS SHALL HAVE METAL PLATE WITH LAPPED JOISTS.
  - SET ROUGH CARPENTRY TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB, TRUE TO LINE, CUT AND FITTED. LOCATE WALLS, BLOCKING, AND SIMILAR SUPPORTS TO COMPLY WITH REQUIREMENT FOR ATTACHING OTHER CONSTRUCTION, INCLUDING BLOCKING FOR STAIR RAILS, CABINERY, CLOSET ROOFS, SHOWERS, SHOWER WALLS, TUBS, MIRRORS, BATHROOM ACCESSORIES, ETC. THE LOCATION OF BATHROOM ACCESSORIES, MIRRORS, & CLOSET ROOFS SHALL BE VERIFIED WITH OWNER.
  - FIRE-STOP ALL FURRING, PARTITIONS AND STUD WALLS AT BOTH FLOOR AND CEILING OF EACH FLOOR LEVEL AND JUNCTION OF ROOF RAFTERS AND WALLS.
  - FRAMING CARPENTER TO INSTALL ALL FRAMING FOR SOFFITS AND DROPPED OR LOWERED CEILING. SEE DRAWINGS FOR LOCATIONS.
  - PROVIDE CONTINUOUS (2)x10 BLOCKING FOR REINFORCING SUPPORT FOR ALL WALL HUNG ITEMS, INCLUDING BUT NOT LIMITED TO DOOR STOPS, SHELVES, WASHROOM ACCESSORIES, CLOSET ROOFS, CABINERY, SINKS, ETC. BLOCKING SHALL BE PLACED TIGHT TO FACE OF WALL STUDS AND ANCHORED TO WALL STUDS ON EACH SIDE.
- INSULATION (IF ANY):**
- INSULATION MATERIALS (IF ANY) INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, CRAWL SPACES AND ATTICS SHALL HAVE A FLAME-SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- GYPSONUM BOARD / CEMENT BOARD:**
- PROVIDE 1/2" GYPSONUM BOARD.
  - GYPSONUM BOARD MAY ALSO BE REFERRED TO AS DRYWALL AND SHALL BE ASSUMED TO BE SAME.
  - ALL GYPSONUM BOARD TO BE GLEED AND SCREWED (USING 1 1/2" DRYWALL SCREWS), PROVIDE THREE (3) SANDED TAPE COATS.
  - SINK WALL OF BATHROOMS TO RECEIVE GREEN BOARD 2'-0" ABOVE COUNTER ABOVE COUNTER HEIGHT AND 4'-0" OUT AT WALLS PERPENDICULAR AND ADJACENT TO SINKS. REMAINING BATHROOM AREAS TO RECEIVE STANDARD GYPSONUM BOARD.
  - DURROCK OR WONDER BOARD SHALL BE INSTALLED OVER WOOD SUB-FLOOR AS UNDERLAYMENT FOR ALL TILE AND STONE FLOORS. ON WALLS IN SHOWER AREAS, DURROCK SHALL BE INSTALLED OVER DRYWALL AS BACKER BOARD FOR TILE. INSTALL GLASS MESH MORTAR UNITS ACCORDING TO MANUFACTURER'S INSTRUCTIONS. IF FLOOR IS CONCRETE OR WALLS ARE CONCRETE, OR CMU, TILE AND STONE FINISHES MAY BE INSTALLED DIRECTLY TO THAT MATERIAL WITHOUT AN UNDERLAYMENT LAYER.
  - ALL BARREL VALLUED CEILING, ARCHED OPENINGS AND NICHES TO BE PLASTER.
  - PROVIDE GALVANIZED METAL CORNER BEADS AT ALL OUTSIDE CORNERS, INCLUDING ALL ANGLED CORNERS. PROVIDE GLEED AND STAPLED PLASTIC CORNER BEADS AT ALL INTERIOR ANGLED CORNERS AND CEILING WHERE A TAPED JOINT WOULD NOT BE IN-LINE AND TRUE.
  - PROVIDE ALL LABOR AND MATERIAL TO PERFORM WORK AS REQUIRED TO PROVIDE A FINISHED PRODUCT READY FOR PAINTING.
  - WORK TO BE PERFORMED BY TRADESMAN THAT IS QUALIFIED IN INSTALLING AND FINISHING GYPSONUM BOARD.

- CONCRETE**
- THE CONCRETE CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING THE BID AND VERIFY ALL EXISTING CONDITIONS. NO PLEA OF EXISTING CONDITIONS WILL BE ACCEPTED.
  - ALL CONCRETE TO BE MIXED AND PLACED IN ACCORDANCE WITH A.C.I. STANDARDS, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ASTM C150. ALL CONCRETE SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. ALL PORCHES, STEPS, AND GARAGE FLOOR SLABS SHALL BE A MINIMUM OF 3500 PSI AND A MINIMUM OF 5% AND A MAXIMUM OF 7% AIR ENTRAINMENT.
  - ALL CONCRETE WORK SHALL BE POURED CONTINUOUSLY WHENEVER POSSIBLE.
  - PROVIDE CONCRETE CONTROL JOINTS RADIATING OUT FROM ALL INTERIOR STEEL COLUMNS AND AS REQUIRED IN ALL LARGE POUR BASEMENT, GARAGE AND DRIVEWAY SLABS, APPROXIMATELY 20 FT EACH WAY.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND PLACING OF ALL SLEEVES IN THE FOUNDATION WALL, FOOTINGS, AND SLABS FOR PERIMETER DRAIN TILE, PLUMBING, ELECTRICAL AND MECHANICAL INCOMING AND OUTGOING SERVICES.
  - THE CONCRETE CONTRACTOR SHALL INSTALL REINFORCING STEEL, ANCHOR BOLTS OR STRAPS IN CONFORMANCE WITH SIZES AND SHAPES INDICATED ON THE DRAWINGS AND MAY BE REQUIRED BY THE NATURE OF THE WORK.
  - NO CONCRETE SHALL BE POURED WHEN THERE IS EXCESSIVE OR STANDING WATER OR WHEN THE TEMPERATURE OF THE SURROUNDING AIR IS LESS THAN 40 DEGREES F (WITHOUT CHEMICAL ADDITIVES). DO NOT USE ANY ADDITIVES WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. ALL FORMS, GROUND AND OTHER MATERIALS WITH WHICH CONCRETE WILL COME INTO CONTACT SHALL BE FREE OF FROST BEFORE POURING. PROTECT THE CONCRETE AND SOIL FROM FREEZING AND HEAT SHALL BE PROVIDED IF NEEDED.
  - ALL CONCRETE SHALL CURE A MINIMUM OF SEVEN DAYS BEFORE A LOAD MAY BE PLACED ON IT OR BACKFILL CAN OCCUR.
  - THE CONCRETE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE AN ALLOWANCE FOR ALL GRANULAR FILL THAT WILL BE REQUIRED DUE TO TYPICAL OVER DIG DURING EXCAVATION.
  - ALL REBAR SHALL BE PER ASTM A615-GRADE 60 AND WELD WIRE REINFORCING SHALL BE PER ASTM A185. (IF ANY)
  - FINISH CONCRETE AS FOLLOWS: VERTICAL EXPOSED FOUNDATION WALLS BY REMOVING FORMS AND FILL ALL HOLES; EXTERIOR WALKS AND STOOPS WITH BROOM FINISH; AND INTERIOR SLABS WITH TROWEL FINISH.

- PAINTING NOTES:**
- PRIME ALL DRYWALL TO STOP DUST SEEDING.
  - PAINTING CONTRACTOR TO PUTTY, SAND AND CALK ALL PRIMED WORK.
  - CLEAN ALL SURFACES TO BE PAINTED AS REQUIRED TO REMOVE DUST, SURT, AND GREASE. SAND AS NECESSARY TO PROPERLY PREPARE THE SURFACES TO RECEIVE PAINT.
  - PAINTING CONTRACTOR TO PREP AND PAINT THE FOLLOWING ITEMS WITH COLORS SELECTED BY THE OWNER:
    - EXTERIOR PAINTED WOOD: 1 COAT PRIMER & 2 COATS PAINT
    - EXTERIOR STAINED WOOD: 2 COATS SEMI-TRANSPARENT STAIN & SEALER
    - EXTERIOR METALS: 1 COAT PRIMER & 2 COATS ENAMEL
    - NEW & EXISTING DRYNALL: 1 COAT PRIMER/SEALER & 2 COATS PAINT
    - ALL PAINTED WOOD: 1 COAT PRIMER & 2 COATS PAINT
    - NATURAL FINISH WOOD: 1 COAT SEALER & 2 COATS POLYURETHANE
    - STAINED WOOD: 1 OR 2 COATS SEMI-TRANSPARENT STAIN & 2 COATS POLYURETHANE
    - METALS: 1 COAT PRIMER & 2 COATS ENAMEL
    - CABINERY: SHOP FINISHED.
- FLOORING NOTES:**
- CONTRACTOR TO EXAMINE ALL SURFACES TO RECEIVE THE PARTS OF THE WORK SPECIFIED. INSTALLATION OF THE MATERIAL SIGNIFIES CONTRACTOR'S ACCEPTANCE OF THE SUBSTRATE.
  - CONTRACTOR TO VERIFY ALL DIMENSIONS AND SUBSEQUENT CONSTRUCTION OR FINISHES TO VERIFY IT ACCURATELY FITS WITH OTHER CONSTRUCTION OR FINISHES.
  - EVERY ATTEMPT SHALL BE MADE SUCH THAT THE FINISHING SURFACE OF FLOORING IS NEARLY FLUSH WITH ANY ADJACENT FLOORING, WHETHER THE SAME OR OFFERING MATERIALS, AND ALL CHANGES IN ELEVATION (IF ANY) SHALL BE APPROVED BY THE OWNER PRIOR TO INSTALLING ANY FLOORING.
  - ALL FLOOR FINISHES TO HAVE ADA SLIP COEFFICIENT OF 0.6 MINIMUM.
- FINISHED TRIM WORK NOTES:**
- CASEWORK IS TO BE INSTALLED PLUMB, LEVEL AND STRAIGHT, NAILS SET AND PUTTIED. SAND WOOD SURFACES IF NECESSARY TO REMOVE IRREGULARITIES OR MARKS MADE IN THE INSTALLATION PROCESS.
  - USE FINISHING NAILS FOR FINISH WORK. SELECT FASTENERS OF SIZE THAT WILL NOT PENETRATE MEMBERS WHERE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR WILL RECEIVE FINISH MATERIALS. MAKE TIGHT CONNECTIONS BETWEEN MEMBERS. INSTALL FASTENERS WITHOUT SPLITTING OF WOOD; PRE-DRILL AS REQUIRED. COUNTERSINK WALL HEADS AND SCREWS ON EXPOSED CARPENTRY WORK AND FILL HOLES.
  - ALL CABINERY TO BE SELECTED BY OWNER AND TO BE INSTALLED BY TRIM CARPENTER CONTRACTOR OR CABINET MAKER.
  - TRIM TO BE SELECTED BY OWNER.
- TILE NOTES:**
- CONTRACTOR SHALL PROVIDE THE OWNER WITH EXTRA MATERIAL EQUAL TO HALF TO A FULL BOX OF FULL PIECES (DISCARD ANY CUT OR DAMAGED TILES).
- ACoustICAL CEILING NOTES (IF ANY):**
- EXISTING METAL GRID AND CEILING TILE TO REMAIN WHERE POSSIBLE.
  - WHERE REQUIRED: PROVIDE 1 1/2" METAL GRID SUSPENDED AND SUPPORTED BY THE EXISTING ROOF STRUCTURE. THE CEILING SHALL BE LEVELED USING LASER LEVELING.
  - REPLACE ANY CRACKED OR DAMAGED CEILING TILES PRIOR TO TURN OVER OF SPACE.



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**ARCHITECT**

**BUILDER**

**STATE OF ILLINOIS**  
MICHAEL A. BURR  
001-015688  
03-10-2026 | 11-30-2026  
DATED | EXPIRES

03/10/2026 | 11-30-2026  
DATE | EXPIRES

03/10/2026 | 11-30-2026  
DATE | EXPIRES

**BONNET WASHINGTON BUILDING**  
655 N. WASHINGTON ST.  
NAPERVILLE, IL 60540  
for  
Brett Bonnett

**SCHEDULES - DETAILS - NOTES**

DRAWN BY:  
EUP/AAM  
CHECKED BY:  
MAB

PROJECT NUMBER:  
2510140

SHEET NUMBER:  
**A4.10**

OF 9 SHEETS

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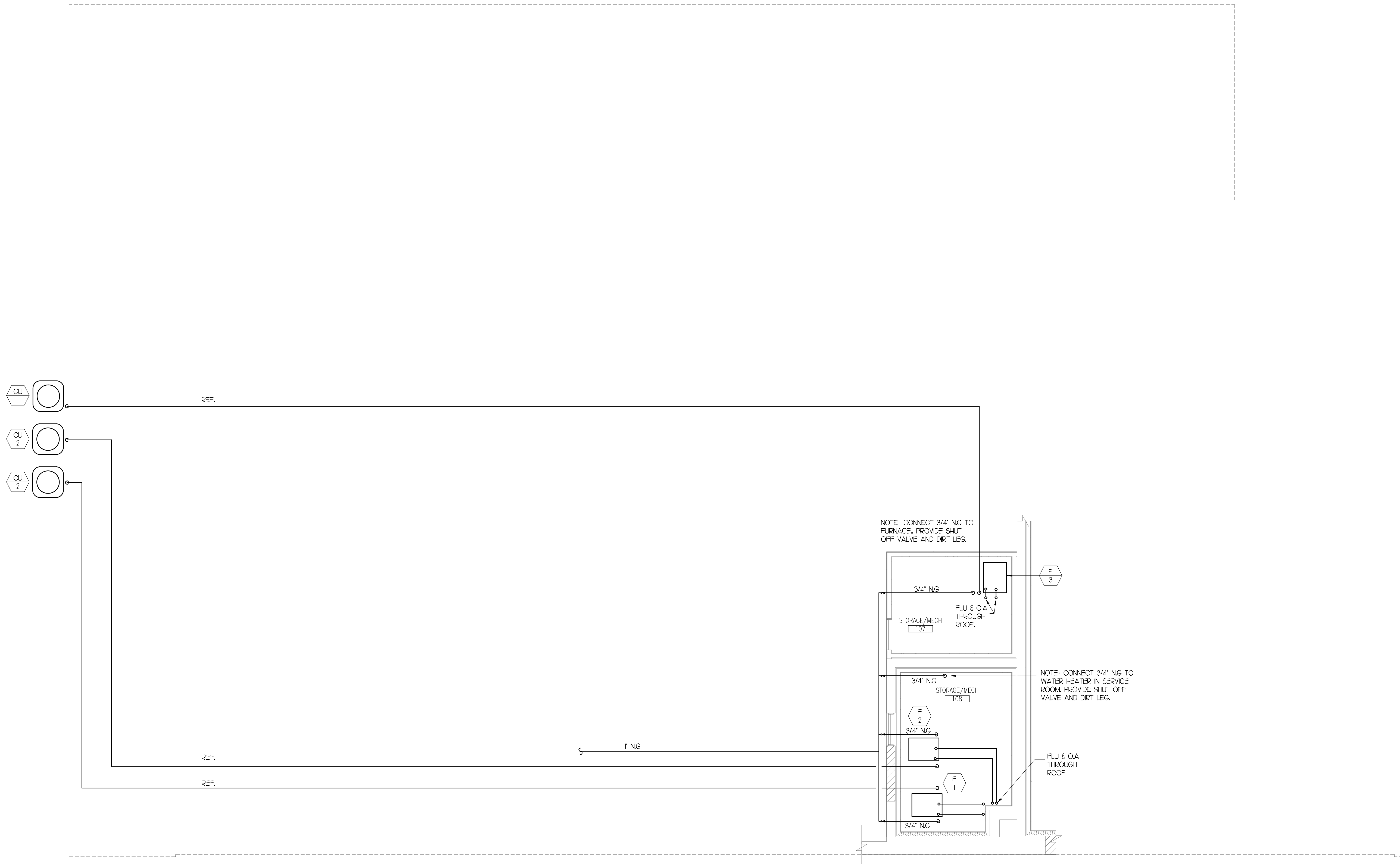
DATE	ISSUANCE
-/-/-	PERMIT SET

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 665 N. WASHINGTON ST.  
 NAPERVILLE, IL 60540  
 for  
 Brett Bonnett

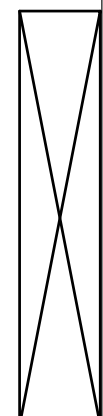
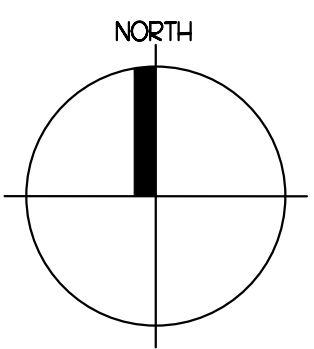
DRAWN BY:  
 AP,RT  
 CHECKED BY:  
 JKN

PROJECT NUMBER:  
 2025-221

SHEET NUMBER:  
**M1-1**



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







SPECIFICATIONS

SCOPE: THIS SPECIFICATION REQUIRES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO MAKE A COMPLETE AND ACCEPTABLE MECHANICAL INSTALLATION AS SPECIFIED HEREIN AND SHOWN ON DRAWINGS.

REGULATIONS, CODES, AND STANDARDS: CURRENT CODE REQUIREMENTS SHALL BE SATISFIED, WHERE REQUIRED BY LOCAL, STATE, OR FEDERAL AUTHORITY HAVING JURISDICTION, NO EQUIPMENT WILL BE ACCEPTED UNLESS IT BEARS THE ACCEPTANCE LABEL OF AN APPROPRIATE TESTING AGENCY.

SHOP DRAWINGS: ASUBMIT TO THE PROJECT ENGINEER, FOR APPROVAL, SHOP DRAWINGS FOR ALL EQUIPMENT LISTED IN THE CONSTRUCTION DOCUMENTS WITH THE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS.

- A. PRODUCT DATA: MANUFACTURER'S LITERATURE DESCRIBING ITEM, MODEL NUMBERS PROPOSED SHALL BE IDENTIFIED WHEN THE LITERATURE DESCRIBES MORE THAN 10 ITEM.
B. OPERATION CURVES: FOR ALL FANS SHOWING CAPACITIES, PRESSURES, HORSEPOWER, AND EFFICIENCY SHALL BE PROVIDED.
C. MANUFACTURER'S SUBMITTAL: SHOWING ELECTRICAL AND MECHANICAL REQUIREMENTS AND CONNECTION LOCATIONS SHALL BE PROVIDED.
D. MAINTENANCE DATA: SUBMIT MAINTENANCE DATA AND PARTS LIST FOR EACH TYPE OF EQUIPMENT REQUIRING PERIODIC MAINTENANCE.

AS-BUILT DRAWINGS: THE CONTRACTOR SHALL SUBMIT AT COMPLETION ONE (1) SET OF MARKED-UP CONTRACT DRAWINGS WHICH SHOW ALL MODIFICATIONS TO THE CONTRACT AND CHANGES OF LOCATIONS, MATERIALS, OR CONFIGURATIONS. THIS SET SHALL BE SUBMITTED WITH THE OPERATING MANUALS TO THE PROJECT ENGINEER.

OPERATING MANUALS: PROVIDE THREE (3) MANUALS, EACH WITH A COMPLETE SET OF COPIES OF SHOP DRAWINGS REQUIRED FOR THE PROJECT AS WELL AS VALVE CHARTS, MANUFACTURER'S TESTING, CLEANING AND MAINTENANCE INSTRUCTIONS, LIST OF MATERIALS FOR MAINTENANCE, PARTS LIST, WIRING DIAGRAMS, AND NAME AND ADDRESS OF AUTHORIZED SERVICE ORGANIZATIONS AND SUPPLIERS. INFORMATION SHALL BE BOUND IN 8 1/2" X 11" THREE-RING, LOOSE-LEAF BINDER, AND INDEXED IN ACCORDANCE WITH THESE SPECIFICATIONS.

SYSTEM START-UP: AT A TIME SET BY THE CONTRACTOR, AND AGREED TO BY THE OWNER, ARRANGE TO PLACE EQUIPMENT IN OPERATION. HAVE A FACTORY AUTHORIZED TECHNICIAN ASSIST IN THE EQUIPMENT START-UP AND MAKE NECESSARY ADJUSTMENTS TO PROVIDE SATISFACTORY OPERATION PRIOR TO TURNING FACILITY OVER TO OWNER.

OWNER INSTRUCTION: CONTRACTOR SHALL ARRANGE, IN WRITING, WITH THE OWNER, PRIOR TO FINAL INSPECTION, A DATE OR DATES TO INSTRUCT THE OWNER, AND THE OWNER'S DESIGNATED REPRESENTATIVES, IN THE OPERATION AND MAINTENANCE OF THE SYSTEM.

FINAL INSPECTION: UPON COMPLETION OF ALL WORK, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE FOLLOWING DATA:

- 1. BALANCE REPORTS
2. MAINTENANCE MANUALS

AFTER RECEIVING APPROVAL OF THE ABOVE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING AND MAKE ARRANGEMENTS FOR A FINAL INSPECTION. AFTER THE FINAL INSPECTION IS MADE, THE CONTRACTOR WILL RECEIVE A LIST OF ITEMS REQUIRING ADJUSTMENT, CORRECTION, REPLACEMENT, OR COMPLETION. THE CONTRACTOR SHALL COMPLY COMPLETELY WITH ALL THE LISTED REQUIREMENTS WITHIN THIRTY (30) DAYS OF THE RECEIPT OF LIST.

DISPOSAL: ALL MATERIALS AND EQUIPMENT SHOWN OR INDICATED TO BE REMOVED AND NOT REINSTALLED OR RELOCATED, SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE OWNER'S PROPERTY UNLESS SPECIFIED TO THE CONTRARY.

GUARANTEE: THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS SUPPLIED BY HIM FOR ONE (1) YEAR AFTER ACCEPTANCE OF THE WORK IN HIS CONTRACT. IF, DURING THE GUARANTEE PERIOD, ANY DEFECTS OF FACILITY MATERIALS ARE FOUND, HE SHALL CORRECT IMMEDIATELY AND REPAIR ANY DAMAGE TO OTHER MATERIALS OR INSTALLATIONS CAUSED BY THE DEFECT.

EXTENDED WARRANTIES: WHEN EQUIPMENT IS FURNISHED BY THE CONTRACTOR, OR MANUFACTURER, WITH A WARRANTY LONGER THAN ONE (1) YEAR, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY ALONG WITH RECEIPTS OR OTHER DOCUMENTS NECESSARY FOR FUTURE WARRANTY REPAIRS. UNLESS OTHERWISE REQUIRED, EXTENDED WARRANTIES ARE FOR EQUIPMENT ONLY, NOT MATERIALS OR LABOR TO INSTALL.

MATERIALS AND EQUIPMENT: ALL EQUIPMENT AND MATERIALS TO BE INCORPORATED IN THIS CONTRACT WORK SHALL BE NEW AND OF THE MAKES AND TYPES AS SPECIFIED AND CONTRACTED FOR. NO REMOVED EQUIPMENT SHALL BE RE-INSTALLED OR RE-USED.

PROPOSED EQUIPMENT AND MATERIALS: THIS CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF PROPOSED EQUIPMENT AND MATERIALS, DESIGNATING MANUFACTURER'S NAME AND MODEL NUMBER OR TYPE, FOR PROJECT ENGINEER'S APPROVAL. CONTRACTOR SHALL MAKE SUCH SUBMITTAL WITHIN 15 DAYS AFTER NOTICE TO PROCEED AND BEFORE ORDERING ANY MATERIAL OR EQUIPMENT.

MECHANICAL SIGNS AND LABELS: WHERE SPECIFIED, THESE SHALL BE 1/2" THICK PLASTIC LAMINATE WITH ENGRAVED LETTERING AND ADHESIVE BACKING. ADDITIONALLY THEY SHALL BE PUNCHED FOR MECHANICAL FASTENERS, UNLESS OTHERWISE SPECIFIED, COLOR SHALL BE BLACK WITH WHITE LETTERING.

INSTALLATION: INSTALLATION OF ALL MATERIAL, ITEMS OR EQUIPMENT AS SHOWN ON DRAWINGS OR DESCRIBED IN SPECIFICATIONS SHALL CONFORM AS NEARLY AS POSSIBLE TO MANUFACTURER'S RECOMMENDED PROCEDURE, UNLESS DESIGNATED OTHERWISE. SHOULD SELECTION OF APPROVED ALTERNATE EQUIPMENT REQUIRE REVISIONS, THIS CONTRACTOR SHALL MAKE ALL CHANGES TO ACCOMMODATE SUCH EQUIPMENT. CONTRACTOR SHALL PREPARE DRAWINGS OF REVISIONS FOR APPROVAL BY PROJECT ENGINEER PRIOR TO BEGINNING WORK. CHANGES AND DRAWINGS SHALL BE MADE AT NO CHANGE IN CONTRACT AMOUNT.

REGULATIONS, CODES AND STANDARDS: THIS CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES AND PAY ALL FEES IN CONNECTION WITH SAME FOR WORK PERFORMED UNDER DIVISION 15.

IDENTIFICATION: ACCESS PANELS SHALL HAVE ENGRAVED PLASTIC MARKERS INDICATING WHAT ACCESS DOOR IS PROVIDED FOR. PIPING SHALL HAVE MARKERS NEAR EACH BRANCH VALVE AND PIECE OF EQUIPMENT AND WHERE PIPE PASSES THROUGH WALLS, FLOORS, AND CEILINGS, SPACE MARKERS AT A MAXIMUM 25' INTERVALS.

OPENINGS, CHASES AND RECESSES: THIS CONTRACTOR SHALL GIVE GENERAL CONTRACTOR, IN SUFFICIENT TIME, ALL DIMENSIONS NEEDED FOR THE PROPER CONSTRUCTION AND LOCATION OF FORMS, CHASES AND OTHER OPENINGS WHICH MAY BE REQUIRED FOR THE INSTALLATION OF ALL EQUIPMENT, PPE, DUCTS AND MATERIALS UNDER THIS CONTRACT.

PROTECTION OF EQUIPMENT: PROTECT AGAINST INJURY FROM WEATHER ALL BUILDING MATERIALS, SUPPLIES, TOOLS, EQUIPMENT, AND FIXTURES INSTALLED OR TO BE INSTALLED, WITH SUITABLE AND SUBSTANTIAL COVERS. COST OF

REPLACING OR REPAIRING EQUIPMENT AND FIXTURES MADE NECESSARY BY FAILURE TO PROVIDE SUITABLE PROTECTION SHALL BE PAID BY THIS CONTRACTOR. RESPONSIBILITY FOR THE CARE AND PROTECTION OF MECHANICAL EQUIPMENT AND WORK SHALL REMAIN WITH THIS CONTRACTOR UNTIL IT HAS BEEN TESTED AND ACCEPTED. PROTECT EQUIPMENT OUTLETS, PPE, DUCT, AND CONDUIT OPENINGS WITH TEMPORARY PLUGS, CAPS, OR APPROVED DEVICES.

PROTECT DEVICES: ALL GEARS, BELTS, AND MOVING PARTS ARE TO BE AMPLY PROTECTED BY SUBSTANTIAL, NEAT, AND APPROVED PERMANENT GUARDS, CASINGS, OR BAILINGS AS THE CASE MAY REQUIRE AND IN SUCH MANNER AS TO FULLY COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

CLEANING: AFTER ALL FIXTURES, MATERIALS, AND APPARATUS HAVE BEEN SET AND READY FOR USE, AND BEFORE THIS CONTRACTOR LEAVES THE JOB, HE SHALL THOROUGHLY CLEAN ALL EQUIPMENT FURNISHED AND SET BY HIM REMOVING ALL STICKERS, RUST STAINS, GREASE, CEMENT, AND OTHER FOREIGN MATTER OR DISCOLORATION ON EQUIPMENT. LEAVING EVERY PART IN ACCEPTABLE CONDITION, READY FOR USE. CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS RESULTING FROM HIS WORK, LEAVING BUILDING IN CLEAN CONDITION, SUITABLE FOR OCCUPANCY. VACUUM CLEAN INTERIOR OF ALL AIR HANDLING UNITS BEFORE COMPLETION AND PROVIDE NEW FILTERS JUST BEFORE TURNING OVER TO OWNER.

UTILITY COMPANIES: CONTACT UTILITY COMPANIES AND ADVISE OF PROPOSED WORK PRIOR TO THE START OF THE EXCAVATION.

ACTIVE UTILITIES: WHEN ENCOUNTERED IN WORK, PROTECT, BRACE, AND SUPPORT EXISTING ACTIVE SEWERS, GAS, ELECTRIC, AND OTHER SERVICES WHERE REQUIRED FOR PROPER EXECUTION OF WORK. IF EXISTING ACTIVE UTILITIES ARE ENCOUNTERED THAT ARE NOT INDICATED, AND WHICH REQUIRE RELOCATION, MAKE REQUEST IN WRITING FOR DETERMINATION. DO NOT PROCEED WITH WORK UNTIL WRITTEN DIRECTIONS ARE RECEIVED. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES THAT ARE TO REMAIN.

INACTIVE UTILITIES: WHEN ENCOUNTERED IN WORK, REMOVE, CAP, OR PLUG INACTIVE SERVICES. NOTIFY UTILITY COMPANIES OR MUNICIPAL AGENCIES HAVING JURISDICTION, PROTECT OR REMOVE THESE SERVICES AS DIRECTED.

INTERRUPTION OF UTILITIES: WHERE WORK MAKES TEMPORARY SHUTDOWN OF SERVICES UNAVOIDABLE, SHUT DOWN AT NIGHT, OR AT SUCH TIMES AS APPROVED BY OWNER, WHICH WILL CAUSE LEAST INTERFERENCE WITH ESTABLISHED OPERATING ROUTINE. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME IF REQUIRED, SO AS TO MAKE THE SHUTDOWN OF SERVICES THE LEAST AMOUNT OF TIME.

GAS PIPING: GAS PIPING SHALL BE STEEL, PPE WITH MALLEABLE-IRON FITTINGS AND THREADED JOINTS FOR PIPE SIZES 2" AND SMALLER AND STEEL PIPE WITH WROUGHT-STEEL FITTINGS AND WELDED JOINTS FOR SIZES 2-1/2" AND LARGER. PIPE SHALL BE ASTM A 53/A 53M BLACK STEEL, SCHEDULE 40. MALLEABLE-IRON THREADED FITTINGS SHALL BE ASME B16.3, CLASS 150 STANDARD PATTERN. WROUGHT-STEEL WELDING FITTINGS SHALL BE ASTM A 234/A 234M FOR BUTT WELDING AND SOCKET WELDING. INDOOR MOVABLE-APPLIANCE FLEXIBLE CONNECTORS TO COMPLY WITH ANSI Z317.5. PROVIDE ORTLEGS, UNION, AND ONE-PIECE BRONZE BALL VALVES AT ALL EQUIPMENT CONNECTIONS. PROVIDE PRESSURE REGULATORS AT ALL DROPS IN PRESSURE. ALL PIPING ON ROOF TO BE SUPPORTED BY MICRO ADJUSTABLE PPE SUPPORTS. ROLLER PAINT ALL EXTERIOR GAS PIPING WITH TWO COATS GREY OIL-BASED ENAMEL PAINT. PREPARE SURFACE BY SCRAPING OR BRUSHING ANY LOOSE PAINT OR DEBRIS. TYP.

ALL NEW GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH SECTION 406 OF THE FGC. THE SYSTEM SHALL BE PURGED, VISUALLY AND PRESSURE TESTED. SOAP TESTING IS NOT ACCEPTABLE. MECHANICAL GAUGES USED TO MEASURE TEST PRESSURES SHALL HAVE A RANGE SUCH THAT THE HIGHEST END OF THE SCALE IS NOT GREATER THAN FIVE TIMES THE TEST PRESSURE. THE TEST SHALL BE WITNESSED AND REPORT PROVIDED. PROVIDE 25 PSI GAS TEST FOR THE NEW GAS PIPING AT THE TIME OF ROUGH INSPECTION.

ANY BURIED GAS PIPING (REINFORCED LESS THAN 36" BELOW GRADE) SHALL BE PE PIPE AND PE FITTINGS JOINED BY HEAT FUSION OR MECHANICAL COUPLINGS.

GAS-FIRED CONDENSING FURNACES: GAS FURNACES ARE CERTIFIED TO ANSI Z21.47 FOR NATURAL GAS. SOLID STATE CONTROLS WHICH CONTINUOUSLY MONITOR FOR PRESENCE OF FLAME WHEN THE SYSTEM IS IN THE HEATING MODE OF OPERATION. DUAL SOLENOID COMBINATION GAS VALVE AND REGULATOR. MULTIPORT IN-SHOT ALUMINIZED STEEL BURNERS. FOUR SPEED, DIRECT DRIVE BLOWER MOTOR. BLOWER DOOR SAFETY SWITCH. HEAVY GAUGE STEEL CABINET CONSTRUCTION. HEAT EXCHANGER SECTION OF THE CABINET TO BE COMPLETELY LINED WITH FOL FACED FIBERGLASS INSULATION. BUILT IN BOTTOM PAN AND ALTERNATE BOTTOM, LEFT OR RIGHT-SIDE RETURN AIR CONNECTION PROVISION. HOT SURFACE IGNITION. INDUCED DRAFT BLOWER. CONVERTIBLE TO HORIZONTAL. 29-4C STAINLESS STEEL SECONDARY HEAT EXCHANGER. PVC VENTING.

CONDENSING UNITS: 25-5-TON UNITS, FACTORY TESTED AND ASSEMBLED, AIR COOLED CONDENSING UNIT FULLY CHARGED AT FACTORY, DESIGNED TO OPERATE AT AMBIENT TEMPERATURES AS HIGH AS 107°. HEAVY GAUGE GALVANIZED STEEL AND PAINTED CASING, HIGH AND LOW PRESSURE CONTROLS, COMPRESSOR WITH INTERNAL OVER TEMPERATURE AND PRESSURE PROTECTOR, TOTAL DIPPED HERMETIC MOTOR AND THERMOSTATICALLY CONTROLLED SUMP HEATER. COIL SHALL BE CONTINUOUSLY WRAPPED, CORROSION RESISTANT, ALL ALUMINUM WITH MINIMUM BRAZED JOINTS. ACCEPTABLE MANUFACTURERS: CARRIER, TRANE, YORK, LENOX.

6-20 TON UNITS, FACTORY ASSEMBLED AND TESTED, AIR COOLED, CONSISTING OF CASING, COMPRESSORS, CONDENSER COILS, CONDENSER FANS AND MOTORS, AND UNIT CONTROLS. ACCEPTABLE MANUFACTURERS: CARRIER, TRANE, YORK, LENOX.

AIR DISTRIBUTION: PROVIDE AND INSTALL ALL RIGID DUCTWORK AS SHOWN ON THE DRAWINGS AND AS HEREIN SPECIFIED. CONSTRUCT DUCTWORK AND APPARATUS CASINGS OF GALVANIZED STEEL, CONFORMING TO SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS 2020. CONSTRUCT DIVIDED FLOW FITTINGS WITH SADDLE TAP WELDED TO DUCT FITTING BODY. ALL CONNECTIONS SHALL BE BELL-MOUTHED AND SMOOTH WITH LONG RADIUS BENDS.

INSULATED FLEXIBLE DUCT SHALL BE INSULATED, SOUND ATTENUATING, LOW VELOCITY TYPE, AND SHALL COMPLY WITH NFPA 90A AND 90B, AND BE US 181 CLASS LABELED. DUCT SHALL BE FACTORY FORMED COMPOSED OF A SPIRAL WOUND, CORROSION RESISTANT WIRE BONDED TO AN INNER FABRIC LINER, INSULATED WITH FIBERGLASS WITH A G FACTOR OF 0.23 OR LESS, AND WITH AN OUTER VAPOR BARRIER OF FIBERGLASS REINFORCED METALLIZED FILM. OUTER VAPOR BARRIER CONSTRUCTED OF POLYETHYLENE IS NOT ACCEPTABLE. THE DUCT SHALL BE RATED FOR 6" OF POSITIVE PRESSURE AND SHALL NOT EXCEED 6' IN LENGTH.

PROVIDE MANUAL, SINGLE OR MULTI-BLADE BALANCING DAMPERS AS INDICATED CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. DAMPERS SHALL HAVE A PROTECTIVE COAT OF RED ZINC CHROMATE PRIMER OVER A BOND COAT.

PROVIDE MANUFACTURED TURNING VANES IN ALL ELBOWS CONSTRUCTED OF 1/2" WIDE CURVED BLADES SET AT 3/4" O.C., SUPPORTED WITH BARS PERPENDICULAR TO BLADES SET AT 2" O.C. AND SET INTO SIDE STRIPS SUITABLE FOR MOUNTING IN DUCTWORK.

PROVIDE FLEXIBLE DUCT CONNECTIONS WHEREVER DUCTWORK CONNECTS TO VIBRATION ISOLATED EQUIPMENT AND WHERE SHOWN OR NOTED. CONSTRUCT FLEXIBLE CONNECTIONS OF NEOPRENE-COATED FLAMEPROOF FABRIC. COMPRIED INTO DUCT FLANGES FOR ATTACHMENT TO DUCT AND EQUIPMENT. PROVIDE ADEQUATE JOINT FLEXIBILITY TO ALLOW FOR THERMAL, AXIAL, TRANSVERSE, AND TORSIONAL MOVEMENT, AND ALSO CAPABLE OF ABSORBING VIBRATIONS OF CONNECTED EQUIPMENT.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MISCELLANEOUS ITEMS NECESSARY TO PROVIDE A COMPLETE AND PROPER INSTALLATION IN THE TYPES OF WALLS AND CEILINGS USED IN THE PROJECT AS SHOWN IN THE GENERAL CONSTRUCTION PLANS.

PROVIDE MANUFACTURER'S STANDARD CEILING AIR DIFFUSERS AND GRILLES WHERE SHOWN, OF SIZE, SHAPE, CAPACITY, AND TYPE INDICATED, CONSTRUCTED OF MATERIALS AND COMPONENTS AS INDICATED, AND AS REQUIRED FOR COMPLETE INSTALLATION. PROVIDE DIFFUSERS AND GRILLES WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT CEILING SYSTEMS, AND THAT ARE SPECIFICALLY MANUFACTURED TO FIT INTO THE CEILING MODULE WITH ACCURATE FIT AND ADEQUATE SUPPORT.

FIRE DAMPERS: STATIC AND DYNAMIC FIRE DAMPERS SHALL BE RATED AND LABELED ACCORDING TO UL 555. DAMPERS SHALL HAVE FIRE RATING OF 1/2 HOURS AND CLOSING RATING IN DUCTS UP TO 4" STATIC PRESSURE CLASS AND MINIMUM 2000 FPM VELOCITY. FIRE DAMPERS SHALL BE CURTAIN TYPE WITH BLADES OUTSIDE AIRSTREAM.

DUCT INSULATION AND ACOUSTICAL LINING:

FURNISH AND INSTALL INSULATION AND/OR LINING WHERE SHOWN ON PLANS OR SPECIFIED BELOW. ALL DUCT SIZES NOTED ON DRAWINGS ARE AIRWAY SIZES WITHOUT SOUND LINING INCLUDED. ADJUST SHEET METAL SIZES ACCORDINGLY. INSULATION PRODUCTS SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING MANUFACTURERS:

- 1. MANVILLE CORP.

- 2. OWENS-CORNING FIBERGLASS CORP.
3. CERTAIN-TEED CORP.
4. KNAUF

A. DUCT SOUND LINING:

- 1. RECTANGULAR SUPPLY, EXHAUST/RETURN AND RELIEF AIR DUCTS: 1" FLEXIBLE GLASS FIBER TYPE, 15 PCF DENSITY. SURFACES EXPOSED TO AIR STREAM SHALL BE COATED TO PREVENT EROSION OF GLASS FIBERS.
2. DUCT LINER SHALL HAVE A MAXIMUM FLAME-SPREAD INDEX OF 25 AND SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO ASTM E 84, MEET THE REQUIREMENTS OF NFPA 90A, AND SHALL BE LABELED BY UL.
3. ALL DUCTWORK DIMENSIONS SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS.

B. DUCT INSULATION:

- 1. ALL OUTDOOR AIR DUCTWORK NOT SOUND LINED AND RUN-OUTS TO AIR DIFFUSERS: 1/2" FLEXIBLE GLASS FIBER WITH ALL SERVICE VAPOR BARRIER JACKET, MINIMUM 0.75 PCF DENSITY.
2. ALL INTERIOR EXHAUST AIR DUCTWORK BETWEEN BACKDRAFT DAMPER AND DISCHARGE OF BUILDING: 1/2" FLEXIBLE GLASS FIBER WITH ALL SERVICE VAPOR BARRIER JACKET, MINIMUM 0.75 PCF DENSITY.
3. ALL RETURN DUCTWORK NOT LINED: 1/2" FLEXIBLE GLASS FIBER DUCT WRAP WITH ALL SERVICE VAPOR BARRIER JACKET, MINIMUM 0.75 PCF DENSITY.
4. INSULATED FLEXIBLE DUCT: UL 181 CLASS 1 2-PLY VINYL FILM, BLACK POLYMER FILM, MULTIPLE LAYERS OF ALUMINUM LAMINATE OR ALUMINUM LAMINATE AND POLYESTER FILM WITH LATEX ADHESIVE, SUPPORTED BY HELICALLY WOUND, SPRING-STEEL WIRE, FIBROUS-GLASS INSULATION, POLYETHYLENE OR ALUMINIZED VAPOR BARRIER FILM. ALL SUPPLY AND RETURN AIR DUCTWORK CONNECTIONS TO EACH AIR SUPPLY OUTLET AND RETURN INLET: 5' LENGTH MAXIMUM LENGTH, AND NOT PENETRATE WALLS, FLOORS, OR CEILINGS.

TEST AND BALANCE

TEST AND ADJUST ALL MECHANICAL SYSTEMS AND EQUIPMENT TO ASSURE PROPER BALANCE AND OPERATION. PERFORM TESTS IN ACCORDANCE WITH NEBB OR AABC, AND ASHRAE STANDARDS. SUBMIT COMPLETED TEST AND BALANCE REPORT TO OWNER'S REPRESENTATIVE. BALANCE CONTRACTOR SHALL BE AN INDEPENDENT CERTIFIED TEST AND BALANCE CONTRACTOR, WITH NEBB OR AABC CERTIFICATION. BALANCE ALL SYSTEMS TO WITHIN 5% OF AIRFLOWS INDICATED ON DRAWINGS, AND REPORT ALL DISCREPANCIES TO HVAC INSTALLER FOR CORRECTION. MARK FINAL BALANCE POSITIONS ON DAMPERS WITH PERMANENT MARKER.

ENERGY CODE

ALL MECHANICAL SYSTEMS TO MEET THE REQUIREMENTS OF THE 2021 ECCC.

DEMAND CONTROL VENTILATION PROVIDED FOR SPACES GREATER THAN 500 SF, AND GREATER THAN 15 PEOPLE PER 1000 SF, OCCUPANT DENSITY AND SERVED BY SYSTEMS WITH AIR SIDE ECONOMIZER, AUTO MODULATING OUTSIDE AIR DAMPER CONTROL, OR DESIGN AIRFLOW GREATER THAN 3000 CFM.

SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH A MINIMUM OF R-2 INSULATION.

LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS OF SUPPLY AND RETURN DUCTS OPERATING AT A STATIC PRESSURE LESS THAN OR EQUAL TO 2 INCHES WATER GAUGE SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS, MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.

PROVIDE BALANCING DAMPERS AT EACH BRANCH DUCT.

PROVIDE O&M INSTRUCTIONS FOR SYSTEMS AND EQUIPMENT TO THE BUILDING OWNER OR DESIGNATED REPRESENTATIVE. MANUALS TO BE PROVIDED WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.

HVAC SYSTEMS AND EQUIPMENT CAPACITY DOES NOT EXCEED CALCULATED LOADS.

HEATING AND COOLING TO EACH ZONE IS CONTROLLED BY A THERMOSTAT CONTROL. MINIMUM ONE HUMIDITY CONTROL DEVICE PER INSTALL. HUMIDIFICATION/DEHUMIDIFICATION SYSTEM. THERMOSTATIC CONTROLS TO HAVE A 5F DEADBAND. WHERE A ZONE HAS A SEPARATE HEATING AND A SEPARATE COOLING THERMOSTATIC CONTROL LOCATED WITHIN THE ZONE, A LIMIT SWITCH, MECHANICAL STOP OR DIRECT DIGITAL CONTROL SYSTEM WITH SOFTWARE PROGRAMMING SHALL BE PROVIDED WITH THE CAPABILITY TO PREVENT THE HEATING SET POINT FROM EXCEEDING THE COOLING SET POINT AND TO MAINTAIN A DEADBAND. EACH ZONE SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM. AUTOMATIC START CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM. THE CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY ADJUSTING THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.

SYSTEM COMMISSIONING: PRIOR TO FINAL INSPECTION, CONTRACTOR MUST PROVIDE A SYSTEM COMMISSIONING REPORT.



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Seal of the State of Illinois, Professional Engineer, John K. Neville, License No. 111-10005

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Table with 12 columns for ISSUANCE and DATE tracking.

BONNET WASHINGTON BUILDING 665 N. WASHINGTON ST. NAPERVILLE, IL 60540 for Brett Bonnett

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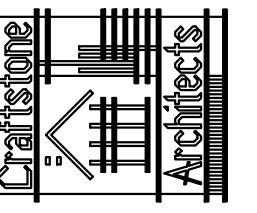
PROJECT NUMBER: 2025-221

SHEET NUMBER: M3-1 OF 4 SHEETS 14



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BUILDER



*John K. Neville*

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 665 N. WASHINGTON ST.  
 NAPERVILLE, IL 60540

for  
**Brett Bonnett**

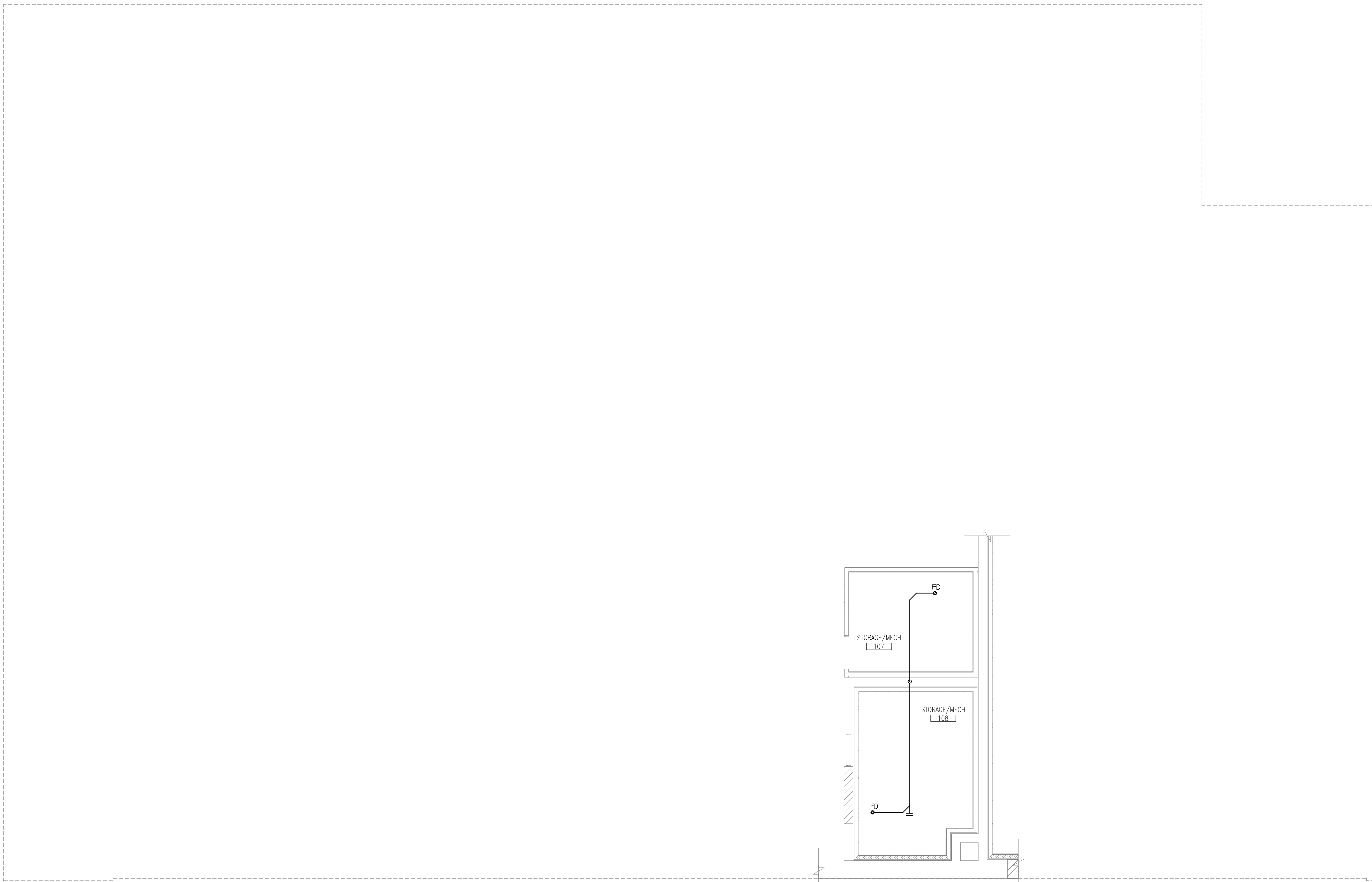
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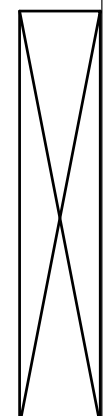
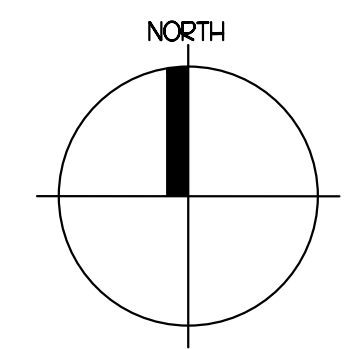
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OF 5 SHEETS 14



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



A  
 B  
 C  
 D

1 2 3 4 5 6 7

1 2 3 4 5 6 7



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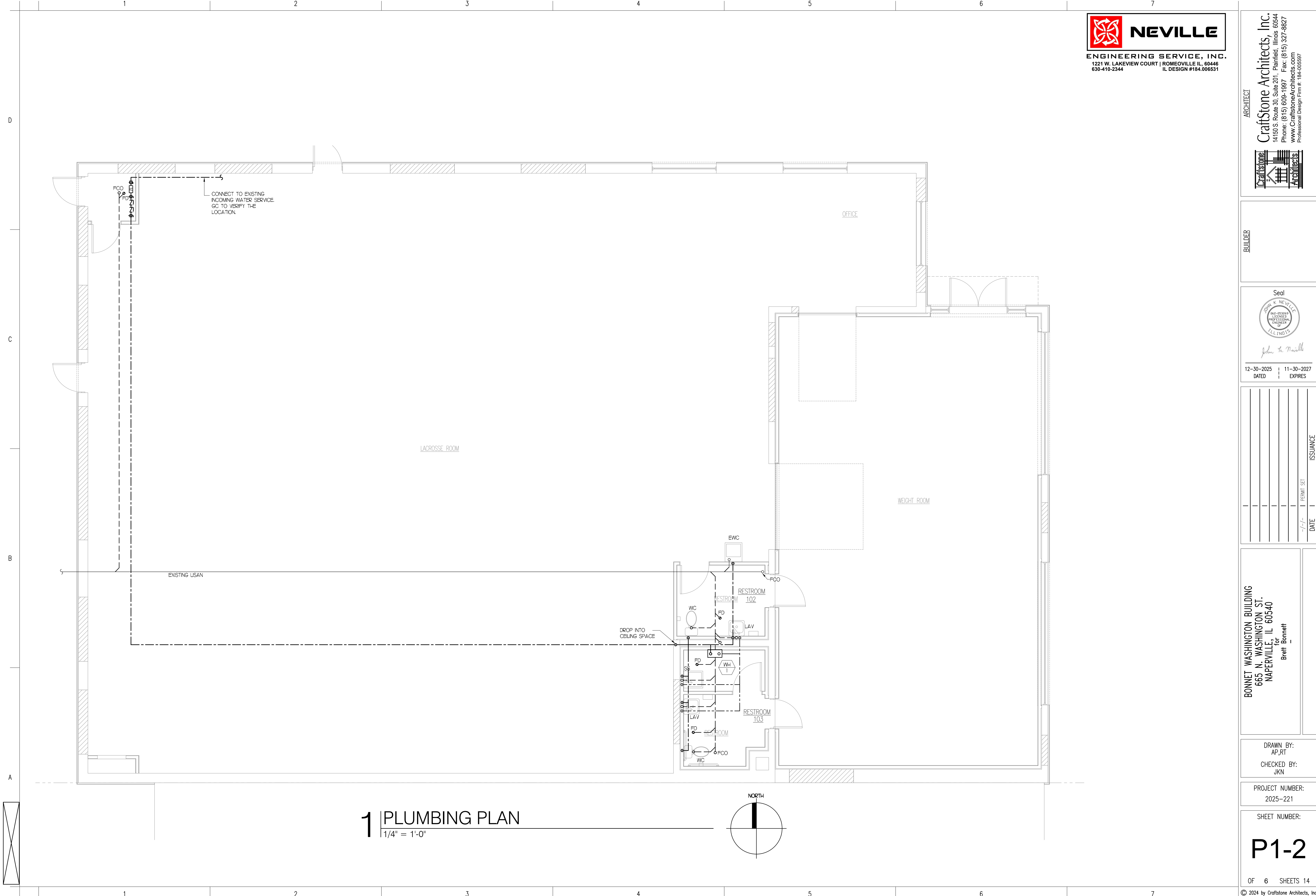
BONNET WASHINGTON BUILDING  
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 NAPERVILLE, IL 60540  
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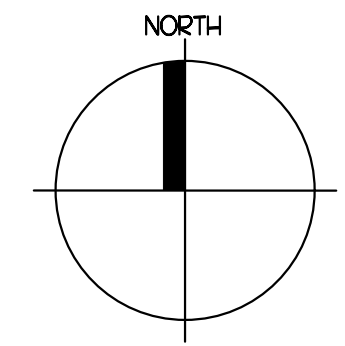
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OF 6 SHEETS 14  
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**1 PLUMBING PLAN**  
 1/4" = 1'-0"



PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	MATERIAL	MANUFACTURER	MODEL	MOUNTING	FAUCET/FLUSH VALVE		NOTES
						MANUFACTURER	MODEL	
WC-1	WATER CLOSET ADA	WHITE VITREOUS CHINA	AMERICAN STANDARD	209AA138.020	FLOOR	-	-	FLOOR-MOUNT FLUSH TANK TOILET, 128 GPF, VITREOUS CHINA, MANUAL FLUSH, ANTIMICROBIAL OPEN FRONT SEAT, WATERSENSE LISTED.
LAV-1	LAVATORY SINK	WHITE VITREOUS CHINA	AMERICAN STANDARD	0954.004	WALL MOUNTED	SYMMONS	S-20-G	WALL HUNG LAVATORY, VITREOUS CHINA, REAR OVERFLOW, RECESSED SELF-DRAINING DECK WITH OPTIONAL KNEE SHROUD SINGLE-HANDLE MANUAL FAUCET, CHROME FINISH, 0.5 GPM, GRID DRAIN.
SS	SERVICE SINK	MOLDED STONE	FIAT PRODUCTS	FLI	FREE STANDING	AMERICAN STANDARD	AI	FREE STANDING FLOOR MOUNTED UTILITY SINK WITH LEGS, S.S. STRAINER, 1.5 GPM FAUCET, 23x21/2 NOMINAL DIMENSIONS.
TMV	THERMOSTATIC MIXING VALVE	-	CASH ACME	HEATGUARD HG35	-	-	-	COMPACT THERMOSTATIC MIXING VALVE FOR INDIVIDUAL FAUCETS, ACCURATE TEMPERATURE CONTROL WITH FLOWS AS LOW AS 0.25 GPM, INLET STRAINER.
FD-1	FLOOR DRAIN	HDPE	JOSAM WADE ZURN	J-3000A W-100STD Z-4B	FLOOR MOUNTED	-	-	CAST IRON BODY, BOTTOM OUTLET, ADJUSTABLE COLLAR, POLISHED NICKEL BRONZE, LIGHT DUTY STRAINER.
EWC	ELECTRIC WATER COOLER	STAINLESS STEEL	ELKAY	LZS8WSKZ20	WALL MOUNTED	-	-	SINGLE STATION, SELF-CONTAINED, WALL HUNG ELECTRIC REFRIGERATED WATER COOLER WITH BOTTLE FILLER, ADA COMPLIANT, 5.0 A, 120V.

TANKLESS GAS WATER HEATER SCHEDULE

TAG	LOCATION	INPUT (MBH)	GPM @ 90° RISE	EFFICIENCY	MIN. GPM	VOLT.	MFR.	MODEL	NOTES
WH-1	ELEC./MECH.	199.0	42	94%	0.4	120V	RHEEM	RTGH-950V	1

NOTES:  
1. INDOOR DIRECT VENT NATURAL GAS TANKLESS WATER HEATER WITH 94% EFFICIENT STAINLESS STEEL CONDENSING HEAT EXCHANGER, 2-PIPE DIRECT VENT SYSTEM. PROVIDE 2" PVC VENTING THROUGH ROOF WITH CONCENTRIC VENT PER MANUFACTURER'S RECOMMENDATIONS.

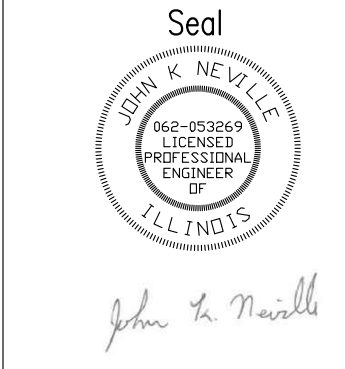
HANGER SPACING SCHEDULE

PIPING MATERIAL	MAXIMUM HORIZONTAL SPACING (FT)	MAXIMUM VERTICAL SPACING (FT)
COPPER / COPPER ALLOY 1/4" AND SMALLER	6	10
COPPER / COPPER ALLOY 1/2" AND LARGER	10	10



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**Builder**



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 NAPERVILLE, IL 60540  
 for Brett Bonnett

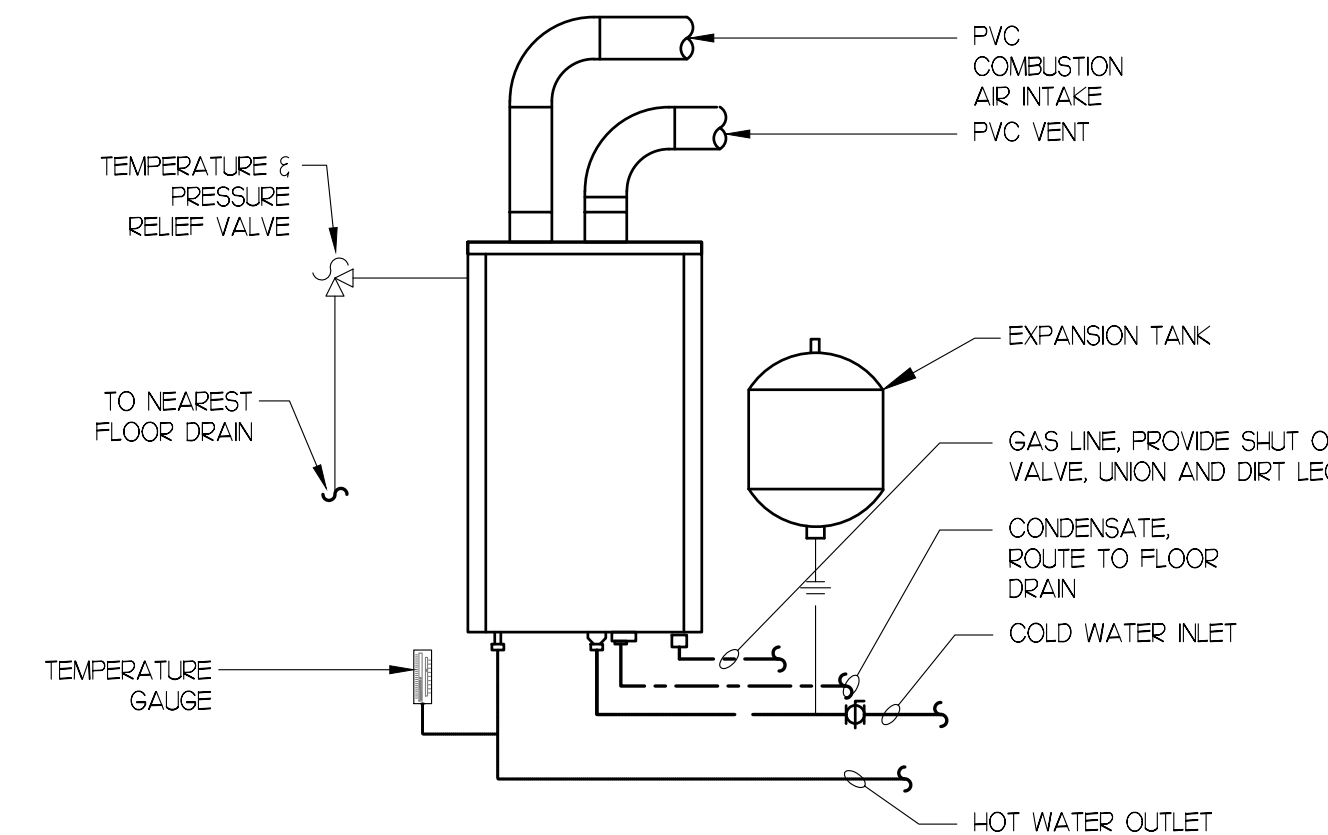
DRAWN BY: AP,RT  
 CHECKED BY: JKN

PROJECT NUMBER: 2025-221

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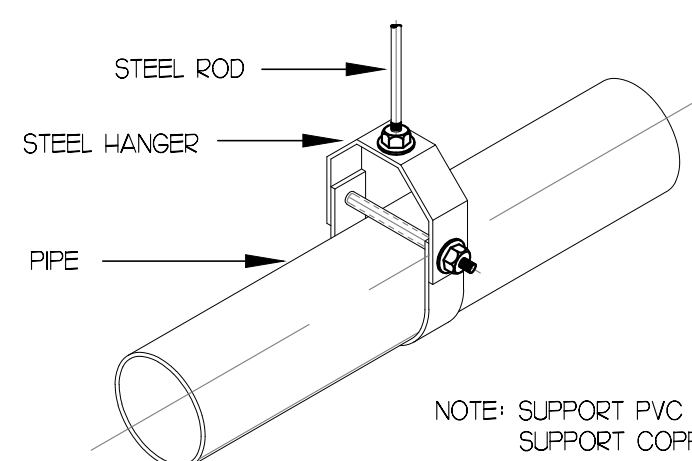
**P2-1**

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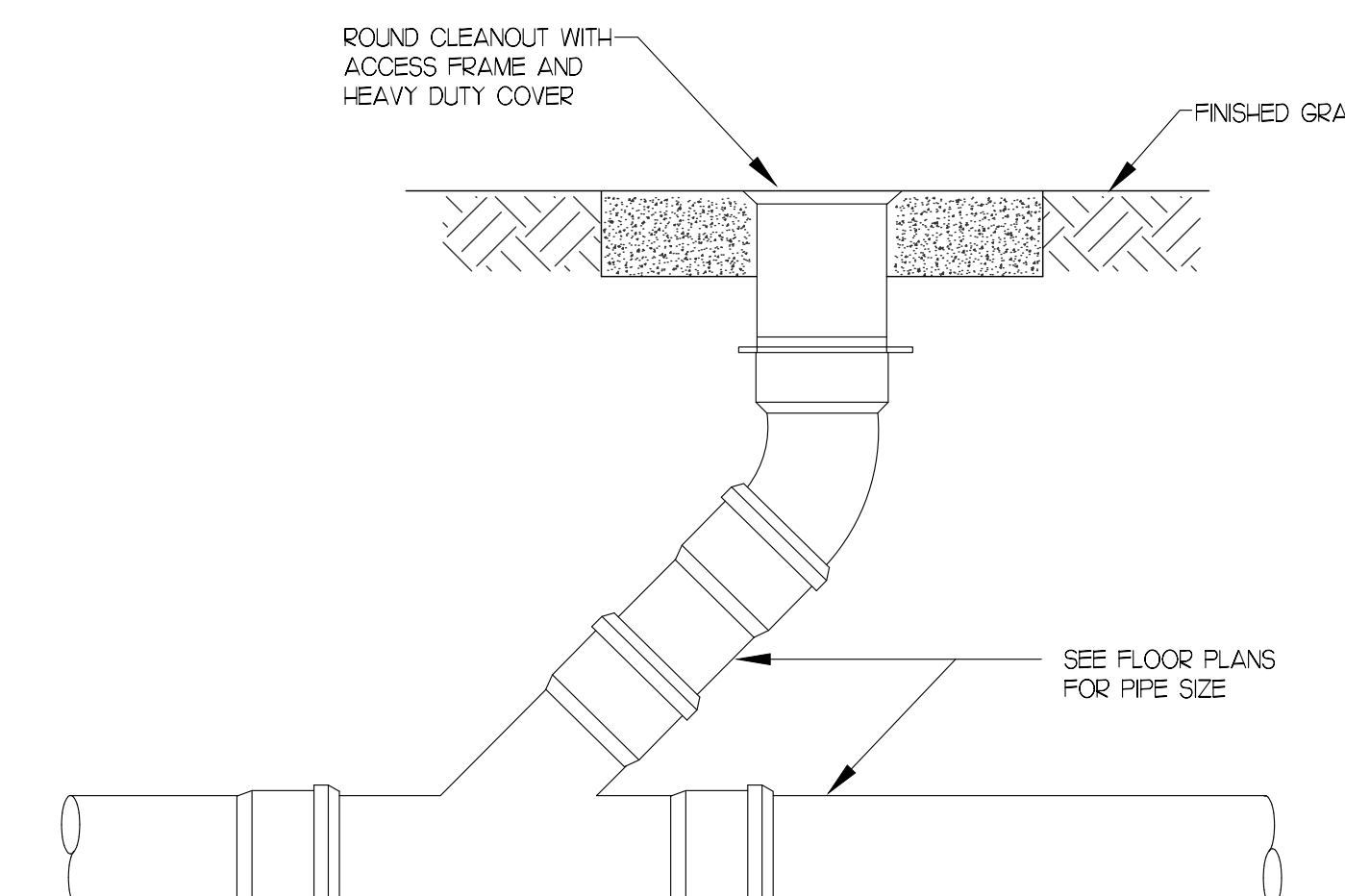
1 INSTANTANEOUS WATER HEATER DETAIL

P-2.1 NO SCALE



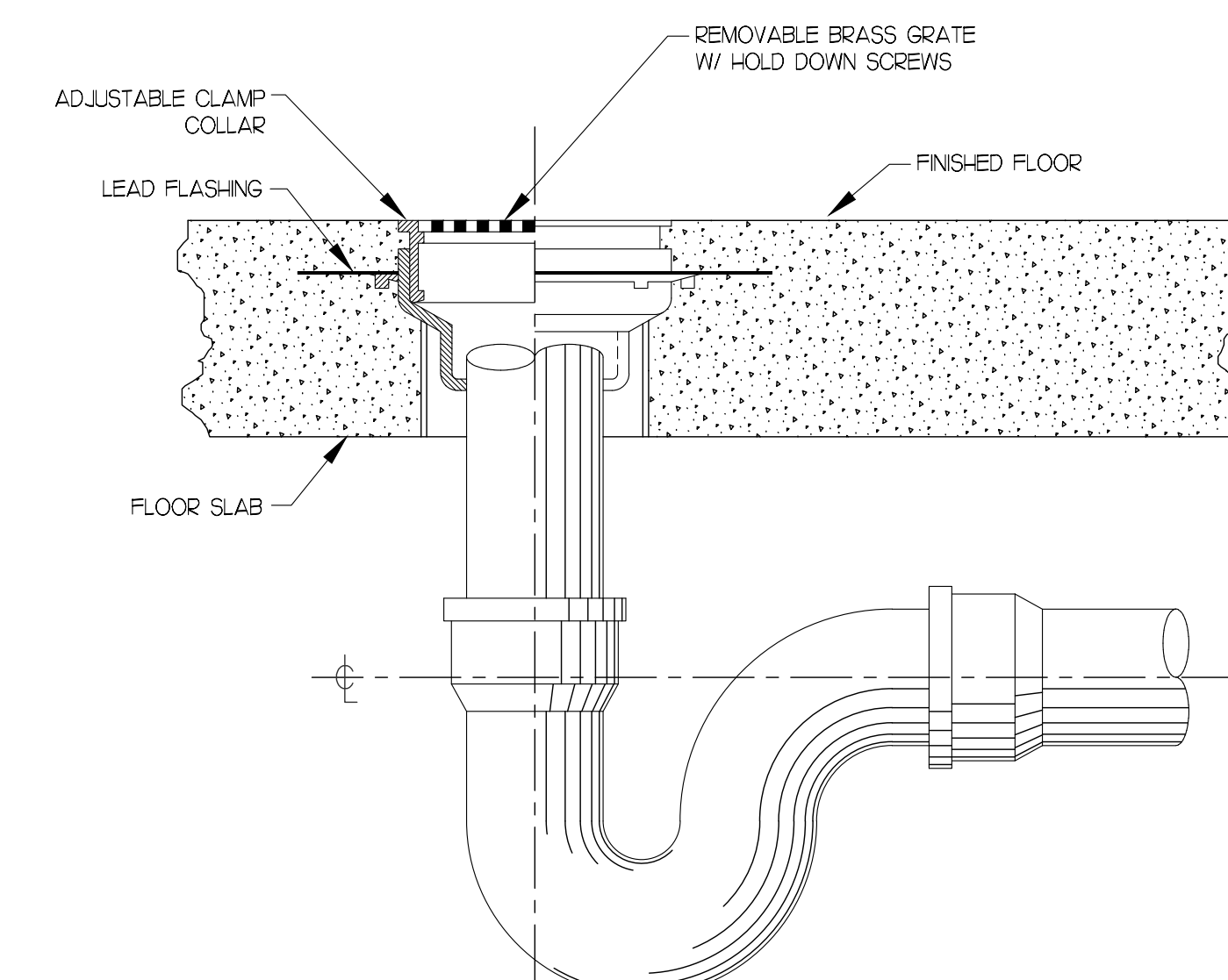
4 PIPE HANGER DETAIL

P-2.1 NO SCALE



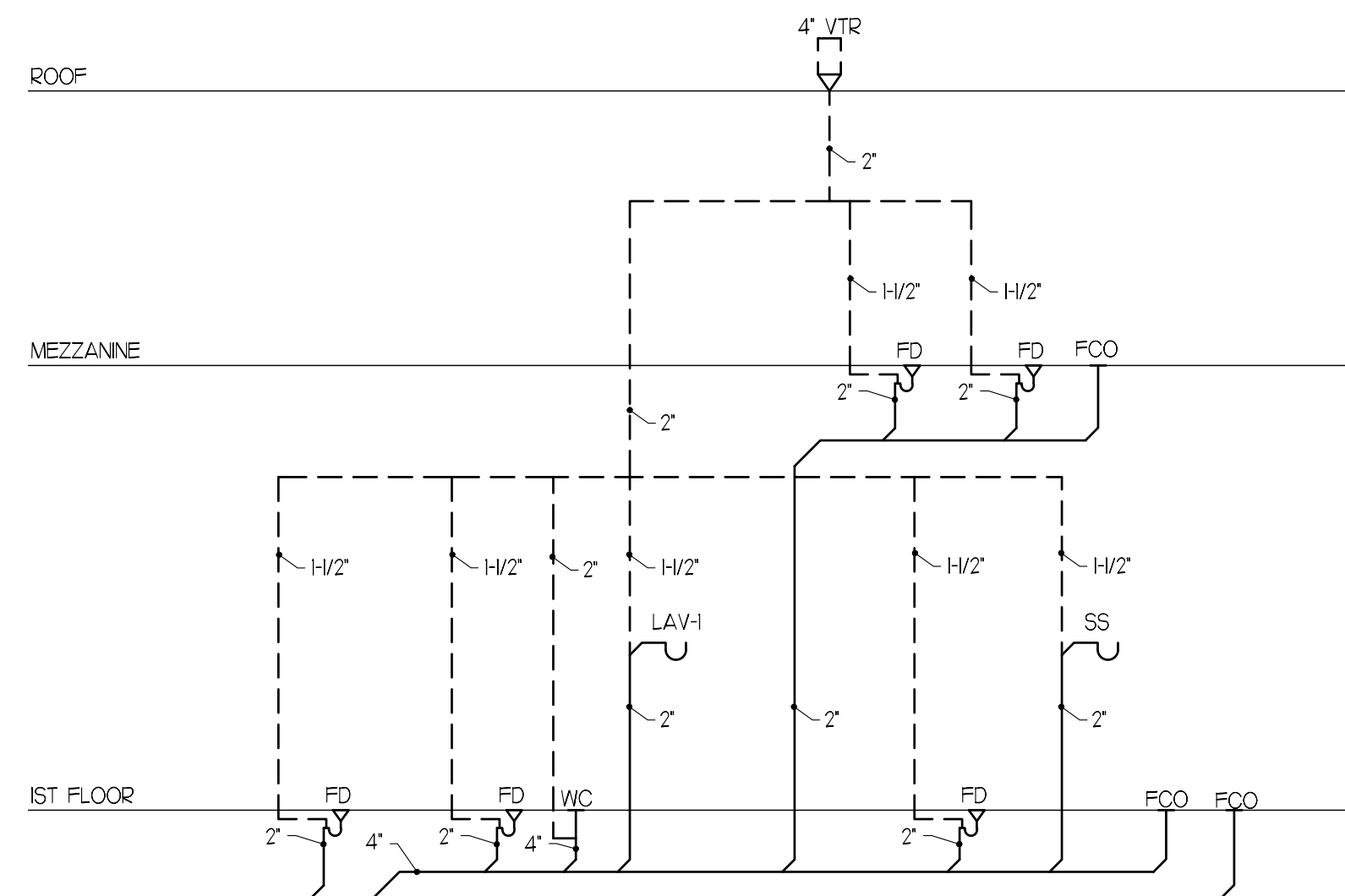
2 FLOOR CLEANOUT DETAIL

P-2.1 NO SCALE



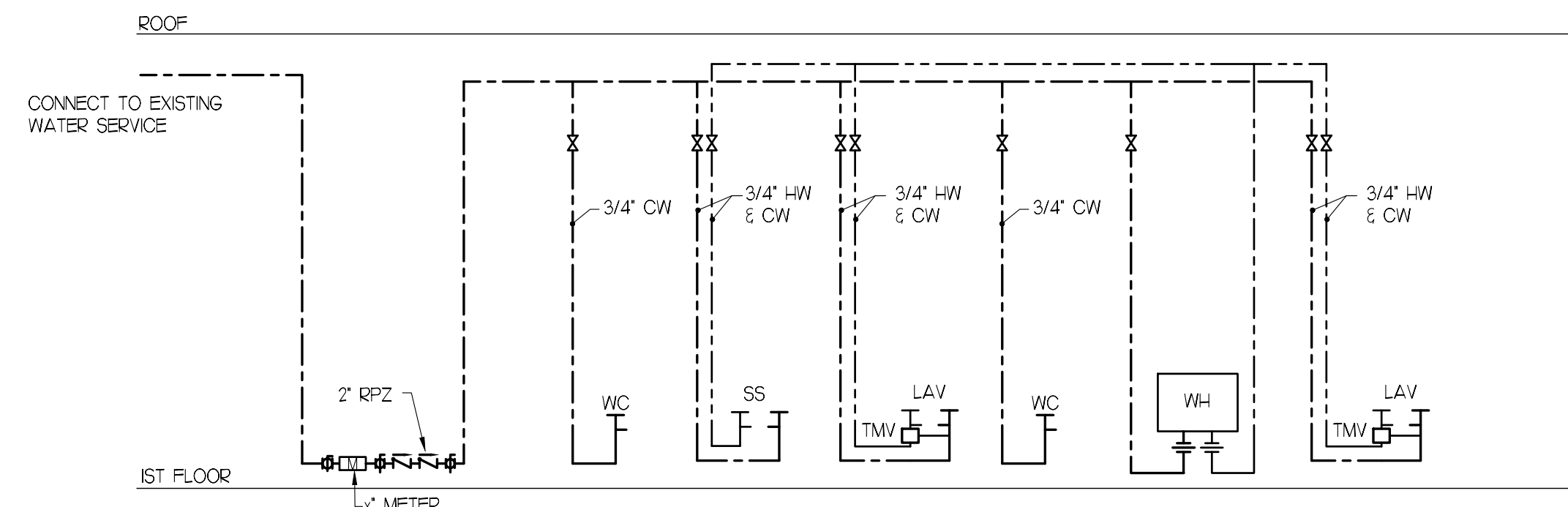
3 FLOOR DRAIN DETAIL

P-2.1 NO SCALE



2 SANITARY RISER DIAGRAM

P201 NO SCALE



1 DOMESTIC WATER RISER DIAGRAM

P201 NO SCALE

WATER SERVICE FIXTURE UNIT CALCULATIONS

QTY.	FIXTURE	USE	SUPPLY TYPE	W.S.F.U. EACH			W.S.F.U. TOTAL			D.F.U. EACH	D.F.U. TOTAL
				Cold	Hot	Total	Cold	Hot	Total		
2	WATER CLOSET	PUBLIC	FLUSH TANK	3	0	3	6	0	6	4	8
2	LAVATORY	PUBLIC	FAUCET	1.5	1.5	2	3	3	4	1	2
1	SERVICE SINK	OFFICES, ETC.	FAUCET	2.25	2.25	3	2.25	2.25	3	3	3
4	2" FLOOR DRAIN			0	0	0	0	0	0	3	12
1	4" FLOOR DRAIN			0	0	0	0	0	0	6	6
PER ILLINOIS STATE PLUMBING CODE				TOTAL W.S.F.U.			11.25	5.25	13.00		
				TOTAL D.F.U.							31.00

WATER SIZE FOR PREDOMINANTLY FLUSH TANKS

Pipe Size 3/4"  
 Meter Size 3/4"

PLUMBING SPECIFICATIONS

SCOPE: THIS SPECIFICATION REQUIRES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO MAKE A COMPLETE AND ACCEPTABLE MECHANICAL INSTALLATION AS SPECIFIED HEREIN AND SHOWN ON DRAWINGS.

REGULATIONS, CODES, AND STANDARDS: CURRENT CODE REQUIREMENTS SHALL BE SATISFIED, WHERE REQUIRED BY LOCAL, STATE, OR FEDERAL AUTHORITY HAVING JURISDICTION, NO EQUIPMENT WILL BE ACCEPTED UNLESS IT BEARS THE ACCEPTANCE LABEL OF AN APPROPRIATE TESTING AGENCY.

SHOP DRAWINGS: SUBMIT TO THE PROJECT ENGINEER, FOR APPROVAL, SHOP DRAWINGS FOR ALL EQUIPMENT LISTED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS, ALLOW 10 DAYS FOR REVIEW BY ARCHITECT/ENGINEER. SUBMITTALS SHALL INCLUDE AS A MINIMUM THE FOLLOWING:

- A. PRODUCT DATA: MANUFACTURER'S LITERATURE DESCRIBING ITEM, MODEL NUMBERS PROPOSED SHALL BE IDENTIFIED WHEN THE LITERATURE DESCRIBES MORE THAN ONE ITEM.
B. OPERATION CURVES: FOR ALL FANS SHOWING CAPACITIES, PRESSURES, HORSEPOWER, AND EFFICIENCY SHALL BE PROVIDED.
C. MANUFACTURER'S SUBMITTAL: SHOWING ELECTRICAL AND MECHANICAL REQUIREMENTS AND CONNECTION LOCATIONS SHALL BE PROVIDED.
D. MAINTENANCE DATA: SUBMIT MAINTENANCE DATA AND PARTS LIST FOR EACH TYPE OF EQUIPMENT REQUIRING PERIODIC MAINTENANCE.

ALL SHOP DRAWINGS SUBMITTED SHALL BE STAMPED, DATED, AND SIGNED BY THE CONTRACTOR TO CERTIFY THAT THEY HAVE BEEN CHECKED BY HIM AS TO CAPACITIES, DIMENSIONS, SPACE REQUIREMENTS AND LIMITATIONS, AND ANY AND ALL OTHER REQUIREMENTS, AND FOUND ACCEPTABLE APPROVAL OF SHOP DRAWINGS BY THE PROJECT ENGINEER SHALL NOT RELIEVE CONTRACTOR FROM FULFILLING OPERATIONAL REQUIREMENTS, OR FURNISHING ALL MATERIAL AND EQUIPMENT SPECIFIED OR NOTED, WHETHER OR NOT SPECIFICALLY SHOWN ON THE SHOP DRAWINGS. THE QUANTITY TO BE SUBMITTED SHALL BE THE NUMBER REQUIRED BY THE GENERAL CONTRACTOR.

AS-BUILT DRAWINGS: THE CONTRACTOR SHALL SUBMIT AT COMPLETION ONE (1) SET OF MARKED-UP CONTRACT DRAWINGS WHICH SHOW ALL MODIFICATIONS TO THE CONTRACT AND CHANGES OF LOCATIONS, MATERIALS, OR CONFIGURATIONS. THIS SET SHALL BE SUBMITTED WITH THE OPERATING MANUALS TO THE PROJECT ENGINEER.

OPERATING MANUALS: PROVIDE THREE (3) MANUALS, EACH WITH A COMPLETE SET OF COPIES OF SHOP DRAWINGS REQUIRED FOR THE PROJECT AS WELL AS VALVE CHARTS, MANUFACTURER'S TESTING, CLEANING AND MAINTENANCE INSTRUCTIONS, LIST OF MATERIALS FOR MAINTENANCE, PARTS LIST, WIRING DIAGRAMS, AND NAME AND ADDRESS OF AUTHORIZED SERVICE ORGANIZATIONS AND SUPPLIERS. INFORMATION SHALL BE BOUND IN 8 1/2" X 11" THREE-RING, LOOSE-LEAF BINDER, AND INDEXED IN ACCORDANCE WITH THESE SPECIFICATIONS. BINDER COVER SHALL IDENTIFY JOB NAME, DATE, AND NAME AND ADDRESS OF CONTRACTOR, ARCHITECT, AND ENGINEER. MANUALS SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW OF MATERIAL PRIOR TO THE FINAL INSPECTION. MANUALS WILL BE RETURNED TO THE CONTRACTOR FOR THE SUBMITTAL TO THE OWNER AT THE TIME OF SYSTEM INSTRUCTION.

SYSTEM START-UP: AT A TIME SET BY THE CONTRACTOR, AND AGREED TO BY THE OWNER, ARRANGE TO PLACE EQUIPMENT IN OPERATION. HAVE A FACTORY AUTHORIZED TECHNICIAN ASSIST IN THE EQUIPMENT START-UP AND MAKE NECESSARY ADJUSTMENTS TO PROVIDE SATISFACTORY OPERATION PRIOR TO TURNING FACILITY OVER TO OWNER. ALL EQUIPMENT SHALL BE RUN FOR THREE (3) HOUR TEST PERIODS. ANY REGULATIONS, PARTS LIST, EQUIPMENT, ETC., SHALL BE REPAIRED PRIOR TO FINAL INSPECTION AND ACCEPTANCE. AFTER TESTING, ALL EQUIPMENT SHALL BE FRESHLY OILED, FILTERS REPLACED WITH CLEAN MEDIA, AND INSTALLATION COMPLETELY FINISHED PRIOR TO ACCEPTANCE.

OWNER INSTRUCTION: CONTRACTOR SHALL ARRANGE, IN WRITING, WITH THE OWNER, PRIOR TO FINAL INSPECTION, A DATE OR DATES TO INSTRUCT THE OWNER, AND THE OWNER'S DESIGNATED REPRESENTATIVES, IN THE OPERATION AND MAINTENANCE OF THE SYSTEM.

FINAL INSPECTION: UPON COMPLETION OF ALL WORK, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE FOLLOWING DATA:

- I. MAINTENANCE MANUALS

AFTER RECEIVING APPROVAL OF THE ABOVE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING AND MAKE ARRANGEMENTS FOR A FINAL INSPECTION. AFTER THE FINAL INSPECTION IS MADE, THE CONTRACTOR WILL RECEIVE A LIST OF ITEMS REQUIRING ADJUSTMENT, CORRECTION, REPLACEMENT, OR COMPLETION. THE CONTRACTOR SHALL COMPLY COMPLETELY WITH ALL THE LISTED REQUIREMENTS WITHIN THIRTY (30) DAYS OF THE RECEIPT OF LIST. SHOULD THE CONTRACTOR FAIL TO PERFORM WITHIN THIS TIME LIMIT, THE PROJECT ENGINEER AND/OR OWNER RESERVES THE RIGHT TO HAVE THE WORK COMPLETED BY OTHERS AND THE COST DEDUCTED FROM THE CONTRACT PRICE.

DISPOSAL: ALL MATERIALS AND EQUIPMENT SHOWN, OR INDICATED TO BE REMOVED AND NOT REINSTALLED OR RELOCATED, SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE OWNER'S PROPERTY UNLESS SPECIFIED TO THE CONTRARY.

EQUIPMENT PADS, FOUNDATIONS, AND PITS: PROVIDE ALL NECESSARY EQUIPMENT PADS, FOUNDATIONS, AND PITS WHICH ARE REQUIRED AS PART OF THIS PROJECT. COST OF CONSTRUCTING THESE SHALL BE A PART OF THE RESPECTIVE MECHANICAL INSTALLATION. EACH FLOOR MOUNTED PIECE OF EQUIPMENT SHALL BE PROVIDED WITH A 4" HIGH CONCRETE BASE. PLUMB AND SMOOTH CONCRETE SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT, TWO PARTS CLEAN, SHARP SAND, AND FOUR PARTS CRUSHED STONE OR GRAVEL, 1/2" TO 3/4" IN SIZE, MINIMUM 3500 PSI STRENGTH ACHIEVED IN 28 DAYS. BASES SHALL BE ATTACHED TO THE BUILDING FLOOR WITH EXPANSION BOLTS ON 3" CENTERS, MINIMUM OF TWO BOLTS PER BASE. EXPANSION BOLTS SHALL BE SET PRIOR TO POURING SUCH THAT BOLT HEADS WILL BE CONCEALED WITHIN THE PORED BASE. BASE EXPANSION BOLTS SET IN MEMBRANE FLOORS SHALL BE PLACED SO AS NOT TO IMPAIR INTEGRITY OF THE WATERPROOF MEMBRANE. PROVIDE ALL NECESSARY ANCHOR BOLTS FOR EQUIPMENT SUPPLIED. PROVIDE LAYOUT DIMENSIONS AND ANCHOR BOLT INSERTS FOR ANY OTHER CONTRACTOR REQUIRED TO CONSTRUCT THESE.

GUARANTEE: THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS SUPPLIED BY HIM FOR ONE (1) YEAR AFTER ACCEPTANCE OF THE WORK IN HIS CONTRACT. IF, DURING THE GUARANTEE PERIOD, ANY DEFECTS OF FAULTY MATERIALS ARE FOUND, HE SHALL CORRECT IMMEDIATELY AND REPAIR ANY DAMAGE TO OTHER MATERIALS OR INSTALLATIONS CAUSED BY THE DEFECT.

EXTENDED WARRANTIES: WHEN EQUIPMENT IS FURNISHED BY THE CONTRACTOR, OR MANUFACTURER, WITH A WARRANTY LONGER THAN ONE (1) YEAR, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY ALONG WITH RECEIPTS OR OTHER DOCUMENTS NECESSARY FOR FUTURE WARRANTY REPAIRS. UNLESS OTHERWISE REQUIRED, EXTENDED WARRANTIES ARE FOR EQUIPMENT ONLY, NOT MATERIALS OR LABOR TO INSTALL.

MATERIALS AND EQUIPMENT: ALL EQUIPMENT AND MATERIALS TO BE INCORPORATED IN THIS CONTRACT WORK SHALL BE NEW AND OF THE MAKES AND TYPES AS SPECIFIED AND CONTRACTED FOR. NO REMOVED EQUIPMENT SHALL BE RE-INSTALLED OR RE-USED.

PROPOSED EQUIPMENT AND MATERIALS: THIS CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF PROPOSED EQUIPMENT AND MATERIALS, DESIGNATING MANUFACTURER'S NAME AND MODEL NUMBER OR TYPE FOR PROJECT ENGINEER'S APPROVAL. CONTRACTOR SHALL MAKE SUCH SUBMITTAL WITHIN 15 DAYS AFTER NOTICE TO PROCEED AND BEFORE ORDERING ANY MATERIAL OR EQUIPMENT. APPROVAL OF SUCH A LIST SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM RESPONSIBILITY OF SUBMITTING SHOP DRAWINGS, NOR SHALL IT CONSTITUTE FINAL APPROVAL. SHOULD THE SHOP DRAWINGS BE FOUND TO BE PARTIALLY OR WHOLLY NOT IN FULL AGREEMENT WITH SPECIFICATION REQUIREMENTS.

INSTALLATION: INSTALLATION OF ALL MATERIAL, ITEMS OR EQUIPMENT AS SHOWN ON DRAWINGS OR DESCRIBED IN SPECIFICATIONS SHALL CONFORM AS NEARLY AS POSSIBLE TO MANUFACTURER'S RECOMMENDED PROCEDURE, UNLESS DESIGNATED OTHERWISE. SHOULD SELECTION OF APPROVED ALTERNATE EQUIPMENT REQUIRE REVISIONS, THIS CONTRACTOR SHALL MAKE ALL CHANGES TO ACCOMMODATE SUCH EQUIPMENT. CONTRACTOR SHALL PREPARE DRAWINGS OF REVISIONS FOR APPROVAL BY PROJECT ENGINEER PRIOR TO BEGINNING WORK. CHANGES AND DRAWINGS SHALL BE MADE AT NO CHANGE IN CONTRACT AMOUNT.

REGULATIONS, CODES AND STANDARDS: THIS CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES AND PAY ALL FEES IN CONNECTION WITH SAME FOR WORK PERFORMED UNDER DIVISION 15.

MECHANICAL SIGNS AND LABELS: WHERE SPECIFIED, THESE SHALL BE 1/8" THICK PLASTIC LAMINATE WITH ENGRAVED LETTERING AND ADHESIVE BACKING. ADDITIONALLY THEY SHALL BE PUNCHED FOR MECHANICAL FASTENERS, UNLESS OTHERWISE SPECIFIED. COLOR SHALL BE BLACK WITH WHITE LETTERING.

IDENTIFICATION: ACCESS PANELS SHALL HAVE ENGRAVED PLASTIC MARKERS INDICATING WHAT ACCESS DOOR IS PROVIDED FOR. PIPING SHALL HAVE MARKERS NEAR EACH BRANCH VALVE AND

PIECE OF EQUIPMENT AND WHERE PIPE PASSES THROUGH WALLS, FLOORS, AND CEILINGS. SPACE MARKERS AT A MAXIMUM 25' INTERVALS.

OPENINGS, CHASES, AND RECESSES: THIS CONTRACTOR SHALL GIVE GENERAL CONTRACTOR, IN SUFFICIENT TIME, ALL DIMENSIONS NEEDED FOR THE PROPER CONSTRUCTION AND LOCATION OF FORMS, CHASES AND OTHER OPENINGS WHICH MAY BE REQUIRED FOR THE INSTALLATION OF ALL EQUIPMENT, PIPE, DUCTS AND MATERIALS UNDER THIS CONTRACT.

PROTECTION OF EQUIPMENT: PROTECT AGAINST INJURY FROM WEATHER ALL BUILDING MATERIALS, SUPPLIES, TOOLS, EQUIPMENT, AND FIXTURES INSTALLED OR TO BE INSTALLED, WITH SUITABLE AND SUBSTANTIAL COVERS. COST OF REPLACING OR REPAIRING EQUIPMENT AND FIXTURES MADE NECESSARY BY FAILURE TO PROVIDE SUITABLE PROTECTION SHALL BE PAID BY THIS CONTRACTOR. RESPONSIBILITY FOR THE CARE AND PROTECTION OF MECHANICAL EQUIPMENT AND WORK SHALL REMAIN WITH THIS CONTRACTOR UNTIL IT HAS BEEN TESTED AND ACCEPTED. PROTECT EQUIPMENT OUTLETS, PIPE, DUCT, AND CONDUIT OPENINGS WITH TEMPORARY PLUGS, CAPS, OR APPROVED DEVICES.

PROTECT DEVICES: ALL GEARS, BELTS, AND MOVING PARTS ARE TO BE AMPLY PROTECTED BY SUBSTANTIAL, NEAT, AND APPROVED PERMANENT GUARDS, CASINGS, OR RAILINGS AS THE CASE MAY REQUIRE AND IN SUCH MANNER AS TO FULLY COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

CLEANING: AFTER ALL FIXTURES, MATERIALS, AND APPARATUS HAVE BEEN SET AND READY FOR USE, AND BEFORE THIS CONTRACTOR LEAVES THE JOB, HE SHALL THOROUGHLY CLEAN ALL EQUIPMENT FINISHED AND SET BY HIM REMOVING ALL STICKERS, RUST STAINS, GREASE, CEMENT, AND OTHER FOREIGN MATTER OR DISCOLORATION ON EQUIPMENT, LEAVING EVERY PART IN ACCEPTABLE CONDITION, READY FOR USE. CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS RESULTING FROM HIS WORK, LEAVING BUILDING IN CLEAN CONDITION, SUITABLE FOR OCCUPANCY, VACUUM CLEAN INTERIOR OF ALL AIR HANDLING UNITS BEFORE COMPLETION AND PROVIDE NEW FILTERS JUST BEFORE TURNING OVER TO OWNER.

UTILITY COMPANIES: CONTACT UTILITY COMPANIES AND ADVISE OF PROPOSED WORK PRIOR TO THE START OF THE EXCAVATION.

ACTIVE UTILITIES: WHEN ENCOUNTERED IN WORK, PROTECT, BRACE, AND SUPPORT EXISTING ACTIVE SEWERS, GAS, ELECTRIC, AND OTHER SERVICES WHERE REQUIRED FOR PROPER EXECUTION OF WORK. IF EXISTING ACTIVE UTILITIES ARE ENCOUNTERED THAT ARE NOT INDICATED, AND WHICH REQUIRE RELOCATION, MAKE REQUEST IN WRITING FOR DETERMINATION. DO NOT PROCEED WITH WORK UNTIL WRITTEN DIRECTIONS ARE RECEIVED. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES THAT ARE TO REMAIN.

INACTIVE UTILITIES: WHEN ENCOUNTERED IN WORK, REMOVE, CAP, OR PLUG INACTIVE SERVICES, NOTIFY UTILITY COMPANIES OR MUNICIPAL AGENCIES HAVING JURISDICTION, PROTECT OR REMOVE THESE SERVICES AS DIRECTED.

INTERRUPTION OF UTILITIES: WHERE WORK MAKES TEMPORARY SHUTDOWN OF SERVICES UNAVOIDABLE, SHUT DOWN AT NIGHT, OR AT SUCH TIMES AS APPROVED BY OWNER, WHICH WILL CAUSE LEAST INTERFERENCE WITH ESTABLISHED OPERATING ROUTINE. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME IF REQUIRED, SO AS TO MAKE THE SHUTDOWN OF SERVICES THE LEAST AMOUNT OF TIME.

MATERIALS

- A. COPPER TUBE AND FITTINGS
1. COPPER DWV TUBE: ASTM B 306, DRAINAGE TUBE, DRAWN TEMPER.
B. PVC PIPE AND FITTINGS
1. SOLID-WALL PVC PIPE: ASTM D 2665, DRAIN WASTE, AND VENT.
2. ADHESIVE PRIMER: ASTM F 656.
3. SOLVENT CEMENT: ASTM D 2564.
C. HIGH TEMPERATURE CPVC
1. CPVC TYPE IV, GRADE I
2. NSF 61 E 14 CERTIFIED
3. ASTM F441
4. WORKING TEMPERATURE: 33F TO 200F

PIPE AND FITTINGS:

- A. POTABLE WATER IN BUILDING ABOVEGROUND, COLD, HOT, TEMPERED, AND RE-CIRCULATING
1. COPPER, TYPE L, 3" AND SMALLER, HARD TEMPER WITH CAST BRONZE OR WROUGHT COPPER FITTINGS, OR WITH BRASS OR BRONZE FLARE FITTINGS. JOINTS SHALL BE MADE WITH 95/5 TIN/ANTIMONY SOLDER OR BRAZED. SOLDER CONTAINING LEAD SHALL NOT BE USED. FLUX SHALL BE NON-CORROSIVE TYPE.
B. POTABLE WATER, UNDERGROUND
1. COPPER, 3" AND SMALLER, TYPE K, SOFT TEMPER WITH BRASS OR BRONZE (25 LB. HEAVY DUTY LONG COLLAR FLARED TYPE FITTINGS. JOINTS INSIDE BUILDING MAY BE CAST BRONZE AND WROUGHT SOLDER JOINT FITTINGS WITH 63 SILVER BRAZING ALLOY AND SILVER BRAZING FLUX.
C. UNDERGROUND WASTE AND VENT
1. SOLID WALL PVC PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.
D. UNDERGROUND WASTE DISCHARGE FROM HIGH TEMPERATURE APPLIANCES
1. PROVIDE HIGH TEMPERATURE CPVC OR HLB AND SPIGOT CAST IRON SOL PIPE, FOR A MINIMUM DISTANCE OF 20' FROM DISCHARGE OF HIGH TEMPERATURE APPLIANCES SUCH AS DISHWASHERS.
E. ABOVEGROUND WASTE AND VENT
1. COPPER DWV TUBE, COPPER DRAINAGE FITTINGS, AND SOLDERED JOINTS.
2. SOLID WALL PVC PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.

VALVES: ALL VALVES OF ONE TYPE SHALL BE OF ONE MANUFACTURER AND WITH NAME OR TRADEMARK OF MANUFACTURER CAST OR STAMPED ON BODY OF VALVE.

- VALVES FOR WATER 3" AND SMALLER SHALL BE BALL TYPE VALVES WITH A MINIMUM PRESSURE RATING OF 600 WOG, BRONZE BODY MATERIAL, SCREWED ENDS, TWO-PIECE CONSTRUCTION, STEM SHALL HAVE BRASS/TEFLON SEALS, AND CHROME PLATED VALVE.

FURNISH AND INSTALL REQUIRED VALVES FOR PROPER FLOW CONTROL, ISOLATION FOR INSPECTION, MAINTENANCE AND REPAIR OF EACH PIECE OF EQUIPMENT, EACH MAIN, AND BRANCH SERVICE LINE.

UNIONS: PROVIDE UNIONS IN ALL PIPING CONNECTING TO EQUIPMENT SUBJECT TO REPAIR OR REMOVAL.

UNIONS SHALL BE OF THE SAME MATERIAL AND FINISH AS THE PIPING SYSTEM. AVOID UNIONS IN STRAIGHT PIPE RUNS OR IN CONCEALED LOCATIONS.

- STEEL PIPING SIZES 2" AND SMALLER: MALLEABLE IRON UNIONS WITH GROUND JOINT BRASS TO IRON SEAT, 150 LB. WORKING PRESSURE, GRINNELL 463, STOCKHAM 694, BLACK OR GALVANIZED.
2. COPPER PIPING: ALL PIPE SIZES: COPPER, GROUND JOINT UNION CHASE 402, MUELLER WC407.

MAKE ALL REDUCTIONS IN PIPE SIZE WITH ECCENTRIC OR CONCENTRIC, AS APPROPRIATE, REDUCING FITTINGS TO ALLOW FOR COMPLETE GRAVITY DRAINING OF LINES. USE NO BUSHINGS. ALL PIPE NIPPLES SHALL BE OF THE SAME MATERIAL AS LINES IN WHICH THEY OCCUR. MINIMUM SIZE OF WATER PIPING SHALL BE 1/2" EXCEPT WITHIN 12" OF PLUMBING FIXTURE. SUPPORT ALL PIPING ADEQUATELY TO PREVENT SAG AND POCKETING.

- CONCEALED PIPING: ALL PIPING SHALL BE CONCEALED EXCEPT AS OTHERWISE SHOWN OR SPECIFIED. PIPING TO BE CONCEALED MUST BE ROUGHED IN AND INSULATED, IF REQUIRED, BEFORE PERMANENT WALLS OR CEILINGS ARE INSTALLED.
B. EXPOSED PIPING: INSTALL EXPOSED PIPING AS CLOSE TO CEILINGS AND BEAMS AS POSSIBLE, MAINTAINING HIGHEST POSSIBLE HEADROOM CONSISTENT WITH THE CORRECT PITCHING OF THE PIPE.
C. THREADED PIPE: ALL SCREW THREADS SHALL BE AMERICAN STANDARD TAPER PIPE THREAD. USE GRAPHITE OR TEFLON TAPE AS LUBRICANT FOR ASSEMBLING. LUBRICATION OF THREADED JOINTS WILL BE ALLOWED ONLY ON THE MALE PIPE THREADS.

SANITARY WASTE PIPING SPECIALTIES:

- FLOOR DRAINS: FLOOR DRAINS SHALL BE THE DEEP SEAL TYPE AND FILLED WITH VEGETABLE OIL WHERE SUBJECT TO EVAPORATION.

FLOOR CLEANOUTS: ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATER TIGHT ABS TAPERED THREAD PLUG AND ROUND SCORATED CAST IRON EXTRA-HEAVY-DUTY SECURED TOP ADJUSTABLE TO FLOOR FINISH. TURN 2-1400 OR EQUA

PRESSURE TESTS: ALL PIPING AND RELATED EQUIPMENT SHALL PROVE TIGHT UNDER REQUIRED TESTS. CONTRACTOR SHALL PROVIDE ALL NECESSARY INSTRUMENTS, GAUGES, APPARATUS, AND PERSONNEL TO PERFORM THE TESTS. ALL TESTS FOR PIPING SYSTEMS, EXCEPT FINAL TESTS OF COMPLETE SYSTEM, SHALL BE MADE BEFORE PIPE IS COVERED, CONCEALED, OR CONNECTED TO FIXTURES AND EQUIPMENT. REMOVE OR PROTECT FROM DAMAGE EQUIPMENT NOT INTENDED TO BE SUBJECT TO TEST PRESSURES REQUIRED. ALL TEST PRESSURES SHALL REMAIN CONSTANT FOR THE REQUIRED PERIOD WITHOUT ADDITION TO THE TESTING MEDIUM. ALL TESTS SHALL BE MADE IN THE PRESENCE OF THE PROJECT ENGINEER'S DULY AUTHORIZED REPRESENTATIVE. TESTS REQUIRED SHALL NOT BE LESS THAN THE FOLLOWING AND NOT LESS THAN THE APPLICABLE CODES:

- INTERIOR SEWER AND VENTS: STACK TEST, 10 FEET OF WATER, 15 MINUTES
B. POTABLE WATER: HYDROSTATIC, 60 PSIG, 15 MINUTES

ALL PIPE SHALL PROVE ABSOLUTELY TIGHT FOR THE ENTIRE DURATION OF THE TEST AS EVIDENCED BY BOTH VISUAL INSPECTION AND PRESSURE GAUGE READABLE TO ONE PSIG INCREMENTS. IF ANY LEAK OCCURS, THE CONTRACTOR SHALL MAKE REPAIR OR OTHER CORRECTIVE ACTION AND CONDUCT THE TEST AGAIN.

DISINFECTING AND CLEANING: ALL PIPING SYSTEMS SHALL BE THOROUGHLY CLEANED AND DISINFECTED PRIOR TO OPERATION AND/OR CONNECTION TO EXISTING SYSTEMS, WHERE NEW SYSTEMS CONNECT TO TO EXISTING, PROVIDE VALVES, DRAINS, ETC., TO ISOLATE THE NEW FOR PROPER CLEANING.

PLUMBING INSULATION: INSULATION SHALL COMPLY WITH ASHRAE, NFPA, ANSI/ASTM, AND FEDERAL SPECIFICATIONS. INSULATION PRODUCTS SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING MANUFACTURERS:

- MANVILLE CORP.
OWENS-CORNING FIBERGLASS CORP.
CERTAIN-TEED CORP.
KNAUF

REFERENCES: ASTM C547, STANDARD SPECIFICATION FOR MINERAL FIBER PIPE INSULATION. ASTM E24, STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS. UL 723, TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.

PRODUCTS SHALL NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS.

INSULATION SCHEDULE:
DOMESTIC COLD WATER PIPING: ALL SIZES, 1" INSULATION WITH ASJ JACKET
DOMESTIC HOT WATER PIPING: ALL SIZES, 1" INSULATION WITH ASJ JACKET
DOMESTIC HOT WATER RETURN PIPING: ALL SIZES, 1" INSULATION WITH ASJ JACKET
STORM WATER PIPING: ALL SIZES, 1" INSULATION WITH ASJ JACKET

INSULATION TO HAVE A Q24 BTU/IN-HR-FT2-F. ALL INSULATION TYPES SHALL HAVE FIRE AND SMOKE HAZARD CLASSIFICATION RATINGS FOR EACH INSULATION TYPE AS A COMPOSITE UNIT ASSEMBLY. COMPOSITE ASSEMBLY SHALL CONSIST OF BASIC INSULATION BODY, JACKET OR FACING, AND ADHESIVE BONDING JACKET OF FACING TO INSULATION BODY. RATINGS SHALL NOT EXCEED A FLAME SPREAD CLASSIFICATION OF 25 AND SMOKE DEVELOPED CLASSIFICATION OF 50. ALL INSULATION PRODUCTS, OR THEIR SHIPPING CARTONS OR PACKAGES SHALL BEAR A LABEL INDICATING THAT FLAME AND SMOKE RATINGS DO NOT EXCEED THE STATED REQUIREMENTS.

WHERE PIPE IS SUPPORTED FROM THE INSULATION SUCH AS WITH CLEVIS HANGERS, INSTEAD OF FROM THE PIPE ITSELF, INSERTS AND PROTECTION SHIELDS SHALL BE UTILIZED.

INSULATE ALL PVC PIPING IN PLENUM CEILINGS WITH INSULATION HAVING A FLAME SPREAD CLASSIFICATION OF 25 AND SMOKE DEVELOPED CLASSIFICATION OF 50. AVOID INSTALLING PVC PIPING IN PLENUM CEILINGS.

REDUCED-PRESSURE BACKFLOW PREVENTORS: TWO IN-LINE, INDEPENDENT CHECK VALVES, CAPTURED SPRINGS AND REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE. SEATS AND SEAT DISCS SHALL BE REPLACEABLE IN BOTH CHECK MODULES AND THE RELIEF VALVE. NO THREADS OR SCREWS IN THE WATERWAY EXPOSED TO LINE FLUIDS. SERVICE OF ALL INTERNAL COMPONENTS SHALL BE THROUGH A SINGLE ACCESS BRONZE COVER SECURED WITH STAINLESS STEEL BOLTS. THE ASSEMBLY SHALL ALSO INCLUDE TWO RESILIENT SEATED ISOLATION VALVES, FOR RESILIENT SEATED TEST COCKS AND AN AIR CAP DRAIN FITTING. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF USC,ASSE STD. 105, AWWA STD. C501-92. INSTALL DRAIN FOR BACKFLOW PREVENTERS WITH ATMOSPHERIC-VENT DRAIN CONNECTION WITH AIR-GAP FITTING, FIXED AIR-GAP FITTING, OR EQUIVALENT POSITIVE PIPE SEPARATION OF AT LEAST TWO PIPE DIAMETERS IN DRAIN PIPING AND PIPE TO FLOOR DRAIN.

ALL BACKFLOW DEVICES SHALL BE TESTED AND APPROVED BY A CROSS CONNECTION CONTROL DEVICE INSPECTOR (CCDDI) BEFORE INITIAL OPERATION.

PLUMBING FIXTURES AND TRIM: COMPLY WITH ALL APPLICABLE PORTIONS OF THE PLUMBING CODE, ANSI STANDARDS, PDI STANDARDS, FEDERAL STANDARDS, UL COMPLIANCE, STATE STANDARDS, LOCAL STANDARDS, AND AMERICANS WITH DISABILITIES ACT (ADA).

APPROVED MANUFACTURERS' LIST: AMERICAN STANDARD, ELKAY, UNIVERSAL-RUNDE, KOHLER, CHICAGO FAUCET, DELTA FAUCET, SPEAKMAN, SLOAN VALVE, BENEKE, FORBES-WRIGHT, OLSONITE AND HYDROTOK.

WATER CLOSETS INSTALLED IN ACCESSIBLE STALLS SHALL HAVE THE FLUSH HANDLE MOUNTED ON THE WIDE SIDE OF THE ROOM AT NO MORE THAN 44" ABOVE THE FLOOR. ALL WATER CLOSETS SHALL BE EQUIPPED WITH SEATS OF SMOOTH, NON-ABSORBENT MATERIAL. ALL SEATS OF WATER CLOSETS PROVIDED FOR PUBLIC USE SHALL BE ANTIMICROBIAL PLASTIC MATERIAL AND OPEN-FRONT STYLE. NOW WATER CLOSET SEAT SHALL BE MORE THAN 1 1/2 INCHES THICK.

WATER SUPPLIES & TRAPS: FURNISH ALL NECESSARY SUPPLIES, WASTES, TRAPS, STOPS, AND CONNECTORS FROM THE ROUGH-IN SERVICE TO FIXTURES, EXPOSED FLUSH WASTE, AND SUPPLY PIPES AT THE FIXTURES SHALL BE POLISHED CHROMIUM PLATED BRASS PIPE, STOP VALVES, FLUSH VALVES, ESCUTO-CONS, ETC., SHALL BE HEAVY CAST BRASS WITH POLISHED CHROMIUM PLATING. WATER LINES TO EACH FIXTURE SHALL BE EQUIPPED WITH CHROME PLATED BRASS, LOOSE KEY STOP VALVES, SCREW DRIVER STOPS SHALL BE PROVIDED WITH ALL FLUSH VALVES. PROVIDE VACUUM BREAKERS FOR FLUSH VALVES.

TANKLESS GAS WATER HEATERS: HIGH EFFICIENCY CONDENSING TANKLESS GAS WATER HEATERS DESIGNED FOR CONTINUOUS HOT WATER USE. STAINLESS STEEL CONDENSING HEAT EXCHANGER, BUILT-IN CONDENSATE NEUTRALIZER.

ARRANGE UNITS SO CONTROLS AND DEVICES THAT REQUIRE SERVICING ARE ACCESSIBLE. INSTALL GAS SHUTOFF VALVES ON GAS SUPPLY PIPING. INSTALL COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE. USE RELIEF VALVES WITH SENSING ELEMENTS THAT EXTEND INTO TANKS. EXTEND COMMERCIAL WATER HEATER RELIEF VALVE OUTLET WITH DRAIN PIPING SAME AS DOMESTIC WATER PIPING IN CONTINUOUS DOWNWARD PITCH, AND DISCHARGE BY POSITIVE AIR GAP ONTO CLOSEST FLOOR DRAIN. ROUTE PVC VENTING UP THROUGH ROOF WITH CONCENTRIC ROOF KIT.



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BUILDER

Seal
DORA K. NEVILLE
PROFESSIONAL ENGINEER
ILLINOIS
12-30-2025 DATED 11-30-2027 EXPIRES

Table with 12 columns and 1 row for ISSUANCE, with sub-columns for PERMIT SET and DATE.

BONNET WASHINGTON BUILDING
665 N. WASHINGTON ST.
NAPERVILLE, IL 60540
for Brett Bonnett

DRAWN BY: AP,RT
CHECKED BY: JKN

PROJECT NUMBER: 2025-221

SHEET NUMBER: P3-1
OF 8 SHEETS 14

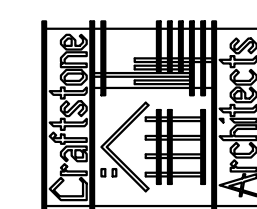




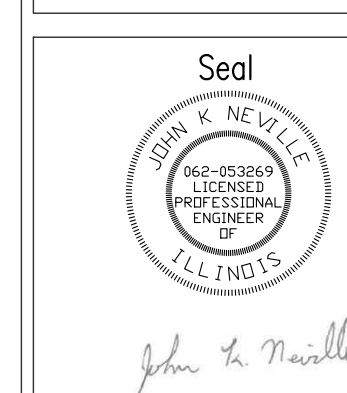
ENGINEERING SERVICE, INC.  
1221 W. LAKEVIEW COURT | ROMEOVILLE, IL, 60446  
630-410-2344 IL DESIGN #184.006531

ARCHITECT

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BUILDER



12-30-2025 DATED 11-30-2027 EXPIRES

DATE	PERMIT SET	ISSUANCE
-/-/-	-/-/-	-/-/-

BONNET WASHINGTON BUILDING  
665 N. WASHINGTON ST.  
NAPERVILLE, IL 60540  
for  
Brett Bonnett

DRAWN BY:  
AP,RT  
CHECKED BY:  
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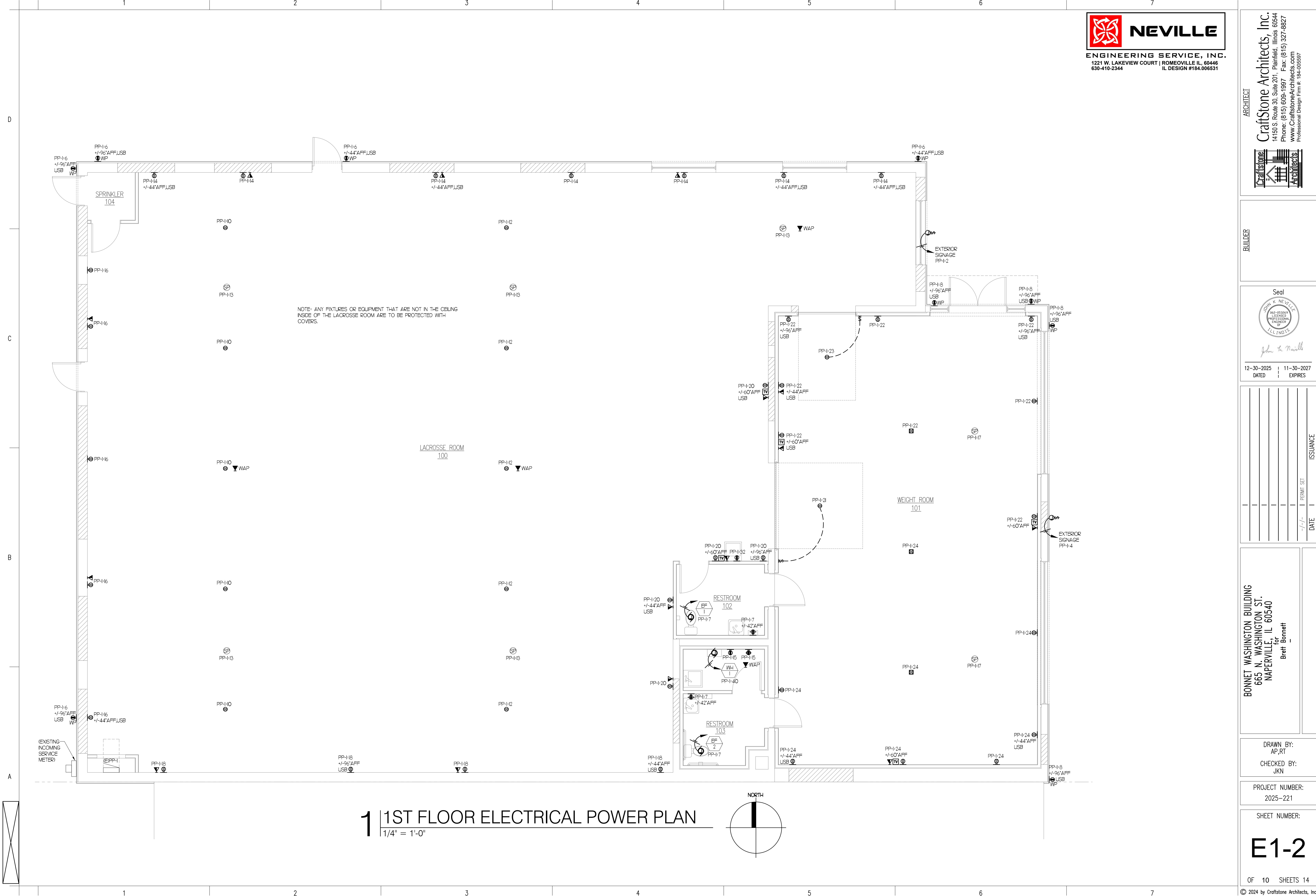
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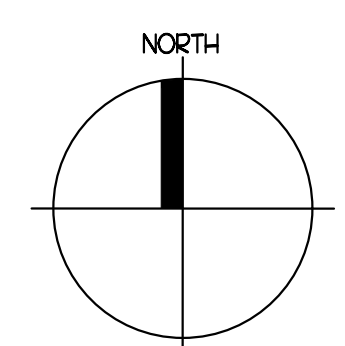
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OF 10 SHEETS 14

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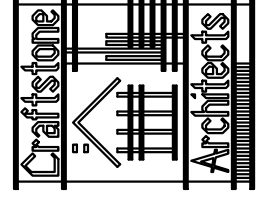
**1 | 1ST FLOOR ELECTRICAL POWER PLAN**  
1/4" = 1'-0"



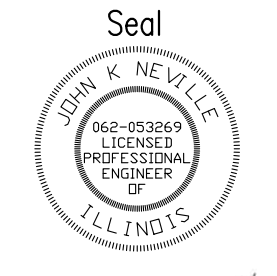


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BUILDER



*John K. Neville*

12-30-2025 DATED | 11-30-2027 EXPIRES

DATE	ISSUANCE
-/-	PERMIT SET

BONNET WASHINGTON BUILDING  
 665 N. WASHINGTON ST.  
 NAPERVILLE, IL 60540

Brett Bonnett

DRAWN BY:  
AP,RT  
 CHECKED BY:  
JKN

PROJECT NUMBER:  
2025-221

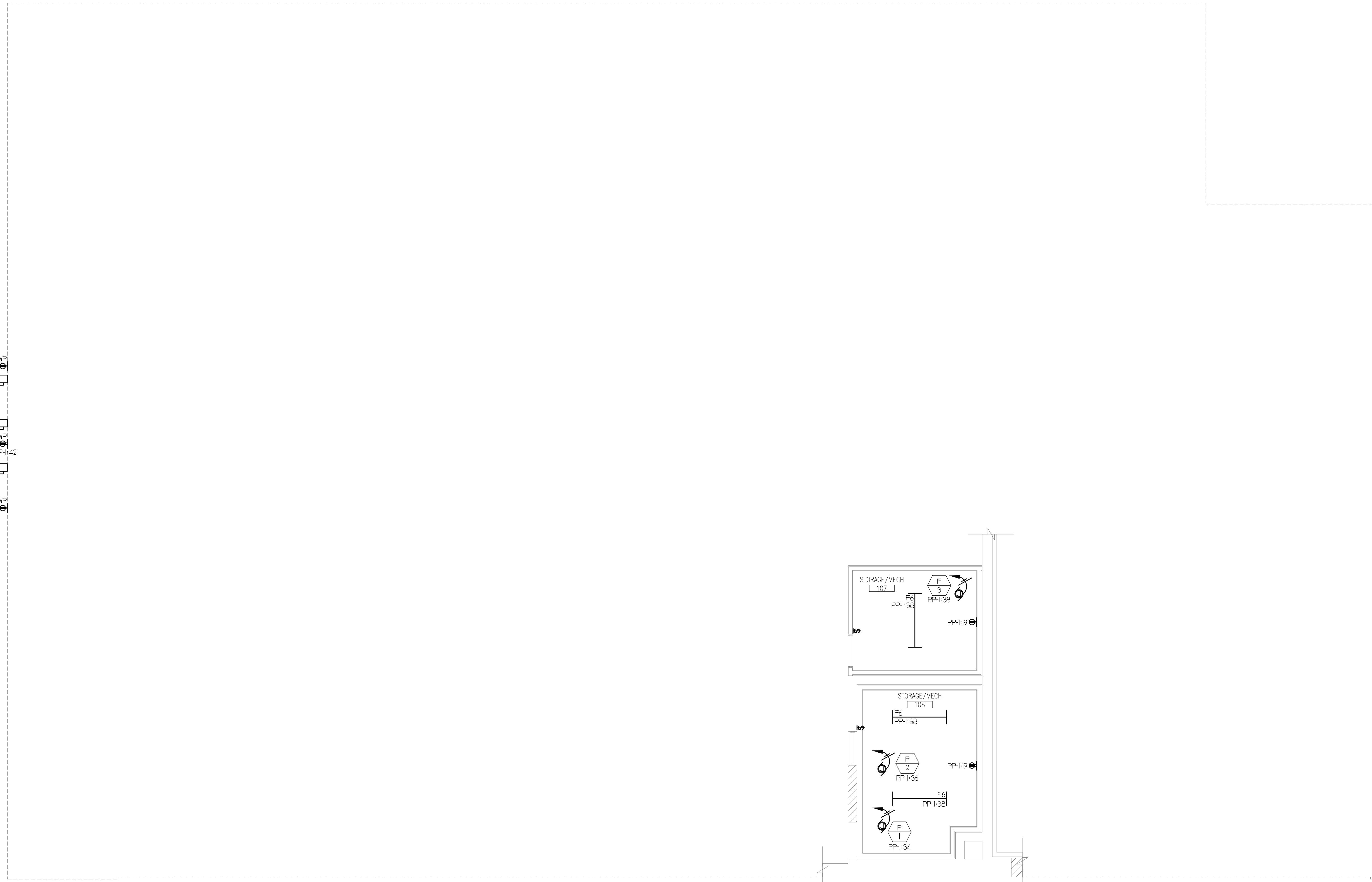
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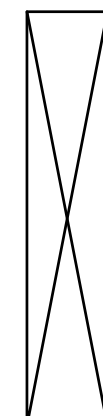
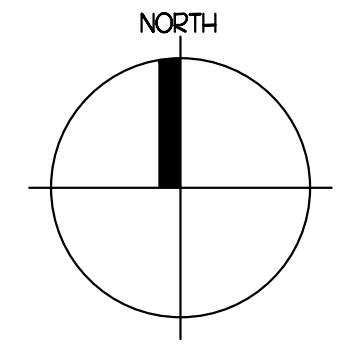
OF 11 SHEETS 14

A B C D

1 2 3 4 5 6 7



**1** MEZZANINE LIGHTING & POWER PLAN  
 1/4" = 1'-0"



# LED LIGHT FIXTURE SCHEDULE

FXLT. NO.	DESCRIPTION	MANUFACTURER & MODEL NUMBER	VOLTAGE	LAMP QTY. & TYPE	REMARKS
F1	LED UFO HIGH BAY	PLT PLT-H2703	MULTI-VOLT	100W LED	LED UFO HIGH BAY, SELECTABLE WATTAGE & COLOR TEMPERATURE, 80 CRI, 0-10V DIMMING DRIVER, MULTI-VOLT, BLACK FINISH.
F2	4' LED DOWNLIGHT	LITHONIA LDN4 ALO2 SWW/LO4 AR LSS MVOLT	MULTI-VOLT	13W LED	4' LED DOWNLIGHT, SELECTABLE LUMENS & COLOR TEMPERATURE, CLEAR TRIM COLOR, SEMI-SPECULAR TRIM FINISH, MULTI-VOLT.
F3	LED IN FLOOR LIGHT	BLUEGATE ALLUNC2-96	24-VOLT	3W LED/FT	LED IN FLOOR LIGHT, 24-VOLT, 3W LED/FT, 8' IN LENGTH, FROSTED LENS.
F4	CEILING FAN	BY OWNER	MULTI-VOLT	500W	CEILING FAN BY OWNER.
F5	EXTERIOR WALL MOUNTED LED	LITHONIA WDE3 LED PO 40K 80CRI RFT MVOLT SRM	MULTI-VOLT	4W LED	EXTERIOR WALL MOUNTED LED, 4000K COLOR TEMPERATURE, 80 CRI FORWARD THROW DISTRIBUTION, MULTI-VOLT, SURFACE MOUNTING BRACKET, 4W LED, BLACK FINISH.
F6	LED STRPLIGHT	LITHONIA ZLN L48 5000LM FST MVOLT 40K 80CRI WH	MULTI-VOLT	34W LED	COLD ROLLED STEEL, HIGH GLOSS BAKED WHITE ENAMEL, STANDARD DIFFUSE SNAP ON ACRYLIC LENS 4,700 LM, 4000K 80 CRI
F7	6' LED DOWNLIGHT	CREE LIGHTING LR6-1BL-35K-DRRC6-GJ24	120-VOLT	20W LED	6' LED DOWNLIGHT, 20W LED, 90 CRI, 3500K COLOR TEMPERATURE, 120-VOLT.
E1	COMBINATION EXIT/EM LIGHT	LITHONIA LHQM LED	MULTI-VOLT	4.3W LED	6" TALL THERMOPLASTIC HOUSING, INTERCHANGEABLE FACEPLATE, TWIN LED LAMP HEADS, INTEGRATED TEST SWITCH/PILOT LIGHT, SHORT CIRCUIT PROTECTION, 90-MINUTE BATTERY LIFE.
E2	EMERGENCY LIGHT	LITHONIA ELM2-LED	MULTI-VOLT	LED	SURFACE MOUNT LED EMERGENCY LIGHT, 6V NICKEL CADMIUM BATTERY, WHITE POLYCARBONATE HOUSING, FULLY ADJUSTABLE LAMP HEADS, AC ON LIGHT, TEST SWITCH, OVERLOAD AND SHORT CIRCUIT PROTECTION 90 MINUTE BATTERY LIFE.
E3	EXTERIOR EMERGENCY LIGHT	LITHONIA AFF-W-PWD	MULTI-VOLT	10.8W LED	DIE-CAST ALUMINUM HOUSING, FORWARD THROW LED LAMPS, INTEGRATED TEST SWITCH/PILOT LIGHT, SHORT CIRCUIT PROTECTION, 90-MINUTE BATTERY LIFE.

NOTE: ALL LAMPS TO BE 3500K, UNLESS OTHERWISE NOTED.

## ELECTRICAL SYMBOL LIST

	L-1'0	1'-0" INDICATES FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MOUNTING
	L-1'3	1'-3" INDICATES FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MOUNTING
	L-1'6	1'-6" INDICATES FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MOUNTING
	L-1'9	1'-9" INDICATES FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MOUNTING
	L-2'0	2'-0" INDICATES FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MOUNTING
	L-2'3	2'-3" INDICATES FIXTURE TYPE, REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MOUNTING
		WALL MOUNTED LED EMERGENCY LIGHT WITH BATTERY BACK-UP
		WALL MOUNTED EXTERIOR EMERGENCY LIGHT WITH BATTERY BACK-UP
		LED EXIT SIGN WITH BATTERY BACK-UP - CEILING MOUNTED - HATCHED REGION INDICATES EXIT FACE ORIENTATION
		LED EXIT SIGN WITH BATTERY BACK-UP - WALL MOUNTED - HATCHED REGION INDICATES EXIT FACE ORIENTATION
		COMBINATION EGRESS FIXTURE
		SINGLE POLE SWITCH
		SINGLE POLE SWITCH - THREE (3) WAY
		SINGLE POLE SWITCH - LETTER INDICATES SWITCH CONTROL
		DIMMING SWITCH
		WALL SWITCH WITH OCCUPANCY SENSOR (HEAT/MOTION)
		WALL SWITCH WITH DIMMING VACANCY SENSOR (HEAT/MOTION)
		CEILING MOUNT OCCUPANCY SENSOR: AUTO ON/OFF, MAX. 20 MIN DELAY.
		CEILING MOUNT SPEAKER (WIRING AND DEVICE BY OTHERS)
		LIGHTING CONTROL TIME CLOCK
		DUPLEX RECEPTACLE
		DEDICATED DUPLEX RECEPTACLE
		DUPLEX RECEPTACLE - SWITCHED
		DOUBLE DUPLEX RECEPTACLE (QUAD)
		DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
		DUPLEX RECEPTACLE - GFCI TYPE
		SIMPLEX RECEPTACLE
		DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - GFCI TYPE, 44" AFF UNLESS NOTED OTHERWISE
		ELECTRICAL J-BOX, CIRCUIT & WHIP FOR POWERED DESK/FURNITURE.
		JUNCTION BOX OR RECEPTACLE CONTROLLED BY LOCAL LIGHTING OCCUPANCY SENSOR.
		LINE VOLTAGE WALL SWITCH OCCUPANCY SENSOR FOR RECEPTACLE CONTROL IN ACCORDANCE WITH IECC 405.11
		LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR FOR RECEPTACLE CONTROL IN ACCORDANCE WITH IECC 405.11
		ELECTRICAL J-BOX, WALL MOUNTED
		VOICE/DATA ROUGH-IN W/ 1" CONDUIT STUBBED TO ABOVE CEILING ROUGH-IN ONLY (WIRING BY OTHERS)
		DATA ROUGH-IN W/ 1" CONDUIT STUBBED TO ABOVE CEILING ROUGH-IN ONLY, WIRELESS ACCESS POINT (WIRING BY OTHERS)
		NON-FUSED DISCONNECT SWITCH - SEE EQUIPMENT CONNECTION SCHEDULE
		TELEVISION OUTLET - ROUGH-IN ONLY (WIRING BY OTHERS)
		CARD READER, ROUGH-IN WITH 1" CONDUIT STUBBED TO ABOVE CEILING ROUGH-IN ONLY (WIRING AND DEVICE BY OTHERS)
		ELECTRIC STRIKE, ROUGH-IN WITH 1" CONDUIT STUBBED INTO DOOR FRAME FOR ACCESS (WIRING AND DEVICE BY OTHERS)
		ELECTRIC CONTACTOR, ROUGH-IN WITH 1" CONDUIT STUBBED INTO WALL (WIRING AND DEVICE BY OTHERS)

NOTE: NOT ALL SYMBOLS IN THIS LIST MAY BE REFERENCED ON PLANS.

## MOUNTING HEIGHTS FOR ELECTRICAL DEVICES

DEVICE	MOUNTING HEIGHTS
LIGHT SWITCHES, WALL MOUNTED OCCUPANCY SENSORS	48" TO CENTERLINE OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
DISCONNECT SWITCHES, MOTOR STARTERS, MOTOR PUSH BUTTON STATIONS	60" TO CENTERLINE.
WALL MOUNTED EXIT SIGNS	90" TO CENTERLINE OF SIGN OR CENTERED IN WALL AREA BETWEEN TOP OF DOOR AND CEILING.
CEILING MOUNTED EXIT SIGNS	80" TO BOTTOM FIXTURE.
RECEPTACLES	16" TO BOTTOM OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
SPECIAL OUTLETS OR RECEPTACLES	16" TO BOTTOM OF BOX OR AS NOTED ON DRAWINGS. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20"-25"D.
DATA/COMMUNICATION OR TELEPHONE OUTLETS	16" TO BOTTOM OF BOX.
FIRE ALARM MANUAL PULL STATIONS	48" TO CENTERLINE OF BOX - NOT MORE THAN 5'-0" FROM EXIT.
FIRE ALARM AUDIBLE ONLY DEVICE	NOT LESS THAN 90" TO TOP OR 6' BELOW CEILING, WHICH EVER IS HIGHER.
FIRE ALARM VISUAL ONLY DEVICE OR A COMBINATION AUDIBLE AND VISUAL DEVICE	80" TO BOTTOM OF DEVICE OR NOT MORE THAN 96" TO TOP.
WALL MOUNTED REMOTE INDICATOR LIGHT	80" TO CENTERLINE OF DEVICE OR 6' BELOW CEILING, WHICHEVER IS LOWER.

**NOTES:**  
 1. ALL DIMENSIONS ARE CONSIDERED FROM FINISHED FLOOR AND, UNLESS NOTED OTHERWISE, SHALL NOT VARY. RAISED FLOORS SHALL BE CONSIDERED FINISHED FLOOR.  
 2. ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL DETAILS AND MAY BE ADJUSTED TO CONFORM WITH ARCHITECTURAL REQUIREMENTS AS LONG AS NO CODE RESTRICTION IS VIOLATED.  
 3. OUTLETS INSTALLED LOWER THAN 15" AFF (FORWARD REACH) AND 9" AFF (SIDE REACH) ARE IN VIOLATION OF ADA.

**SPECIAL NOTES:**  
 1. EXIT SIGNS SHALL NOT BE INSTALLED SO THAT IT BLOCKS FIRE ALARM VISUAL DEVICES.  
 2. FOR LIGHTING FIXTURES MOUNTING HEIGHTS SEE SCHEDULE AND DRAWINGS.

## LIGHTING SWITCH NOTES

3W	3-WAY SWITCH
D	DIMMER SWITCH
VS	VACANCY SENSING DEVICE (HEAT/MOTION)
VSD	DIMMING VACANCY SENSING DEVICE (HEAT/MOTION)
OS	OCCUPANT SENSING DEVICE
OSD	OCCUPANT SENSING DEVICE (HEAT/MOTION)
(E)	EXISTING TO REMAIN

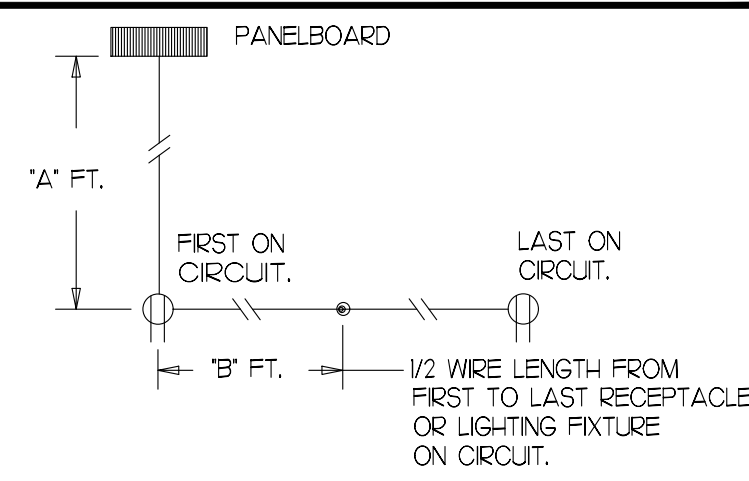
NOTE: NOT ALL SYMBOLS MAY BE USED IN THIS DRAWING.

## FIRE ALARM SYSTEM

FIRE ALARM SYSTEM IS TO BE DONE BY PROJECT FIRE ALARM CONTRACTOR, SELECTED BY OWNER AND BE DONE UNDER A SEPARATE PERMIT.

## WIRE SIZING TABLE

FOR MULTIVOLT-20A BRANCH CIRCUITS ONLY (UNLESS NOTED OTHERWISE)		
IF DISTANCE (A-B) IN FEET IS: (SEE DIAGRAM AT RIGHT)		USE COPPER WIRE IN METALLIC CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AND SIZE CONDUIT ACCORDINGLY.
0' TO 45'		#12 AWG (MIN)
45' TO 72'		#10 AWG
72' TO 100'		#8 AWG
100' TO 150'		#6 AWG (MAX)

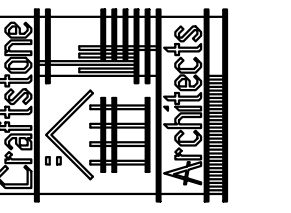


## ELECTRICAL NOTES:

- CODES**  
THE WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, MUNICIPAL AND NATIONAL CODES WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS THE CONSTRUCTION DOCUMENTS SHALL GOVERN. HOWEVER, THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE AND CODE OR REGULATION.
- DRAWINGS AND SPECIFICATIONS**  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND COMPLYING WITH BOTH THE DRAWINGS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN THE DRAWINGS, NOTES, SPECIFICATIONS, OR CODES, THE REFERENCE WHICH PROVIDES THE MORE COMPLETE OR HIGHER STANDARD SHALL PREVAIL.
- INTERPRETATION OF THE DOCUMENTS**  
CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING MEASUREMENTS AND CONDITIONS UNDER WHICH THIS INSTALLATION IS TO BE MADE FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS, BETWEEN DRAWINGS OR SPECIFICATION, OR BETWEEN SECTIONS OF THE SPECIFICATION. THE MATTER SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS A COMPLETE, READY TO USE INSTALLATION. IF NOT STATED IN THE PROPOSAL, IT WILL NOT BE CONSIDERED EXTRA.
- ELECTRICAL DRAWINGS**  
THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL DOORS, WALLS, FURNITURE, EQUIPMENT, ETC. THE LOCATION OF RACEWAY SYSTEM COMPONENTS IS SCHEMATIC. THE EXACT LOCATION OF RACEWAY SYSTEM COMPONENTS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL CONFIRM THE DIMENSIONS OF THE ACTUAL EQUIPMENT TO BE SUPPLIED FOR THIS PROJECT, AND VERIFY CLEARANCES AND ROUGH-INS PRIOR TO STARTING WORK.
- SITE EXAMINATION**  
BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE EXISTING CONDITIONS. THE SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE OR FOR LATER CLAIMS FOR LABOR, EQUIPMENT, MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN SITE EXAMINATION BEEN MADE.
- COORDINATION WITH OTHER TRADES**  
THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF ARCHITECTURAL AND ENGINEERING DOCUMENTS AND COORDINATE WITH MECHANICAL, PLUMBING, ARCHITECTURAL, AND OTHER TRADES FOR EXACT DIMENSIONS, CLEARANCES, ROUGH-IN LOCATIONS, AND OTHER ADDITIONAL SCOPES OF WORK THAT MAY NOT BE SHOWN ON THE ELECTRICAL PLANS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL 120 VOLT (AND HIGHER) AC POWER TO OTHER TRADES EQUIPMENT AND HARDWARE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONTROLS, FIRE AND SECURITY SYSTEMS, MOTORIZED DOORS, DAMPERS, LIFTS, AND OTHER SYSTEMS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL PLANS. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL SAFETY DISCONNECT SWITCHES TO MECHANICAL EQUIPMENT.
- PERMITS, APPLICATIONS AND RELEASES**  
THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, APPLICATIONS, RELEASES AND FEES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES FOR THE EXECUTION OF THIS WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- FIRE STOPPING**  
ALL PENETRATIONS IN WALL, FLOOR OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH AN INTUMESCENT FIRE STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. FIRE STOPPING PRODUCTS SHALL BE MANUFACTURED BY 3M CO.
- OWNER FURNISHED EQUIPMENT**  
EQUIPMENT THAT WILL BE FURNISHED BY THE OWNER WILL BE INDICATED ON A SEPARATE SCHEDULE. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR DELIVERY SCHEDULES. THE CONTRACTOR IS TO ASSUME THAT ON SITE STORAGE MAY NOT BE AVAILABLE WHEN COORDINATING DELIVERY OF EQUIPMENT. THE CONTRACTOR IN COORDINATION WITH THE OWNER'S REPRESENTATIVE, WILL INSPECT THE DELIVERY FOR ACCURACY AND SHIPMENT DAMAGE AND ACCEPTING THE EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO STORE, PROTECT AND ULTIMATELY INSTALL THE EQUIPMENT.
- EQUIPMENT**  
ALL MATERIALS AND EQUIPMENT USED IN THIS INSTALLATION SHALL BE NEW, AND HAVE THE APPROPRIATE UL LISTING AND LABEL.
- MISCELLANEOUS SUPPORTING MEMBERS**  
ALL ANGLES CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, RODS, ETC. REQUIRED TO SUPPORT LIGHT FIXTURE, CONDUIT, RACEWAY, LADDER TRAY, OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- PANEL BOARDS**  
ALL PANEL BOARDS SHALL BE PROVIDED WITH TYPEWRITTEN DIRECTORIES. SEE PANEL SCHEDULES ON THE DRAWINGS FOR COMPLETE IDENTIFICATION AND LABELING REQUIREMENTS. PANEL DIRECTORIES SHALL HAVE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. ADDITIONALLY, THE PANEL LABEL SHALL INCLUDE THE SOURCE OF FEED.
- SAFETY**  
THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE OWNERS EMPLOYEES, BUILDING EMPLOYEES AND GUESTS, AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CONDUCTORS, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.
- EQUIPMENT CONNECTIONS**  
PROVIDE FINAL CONNECTIONS FOR ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS AND FOR ALL OWNER FURNISHED EQUIPMENT. PROVIDE A FLEXIBLE LIQUID TIGHT CONNECTION TO ALL VIBRATION PRODUCING EQUIPMENT.
- UTILITY POWER COORDINATION**  
THE CONTRACTOR SHALL PERFORM ALL COORDINATION AND SO-EDDLING OF LOCAL UTILITY POWER COMPANY WORK EFFORT. ANY EXCESS FACILITIES CHARGES WILL BE PAID BY THE OWNER WITHOUT MARK-UP. CONTRACTOR SHALL WORK REQUIRED FOR THE NEW SERVICE.
- CABLING**  
BRANCH CIRCUITS TO RECEPTACLES, LIGHTING AND MISC. SMALL LOADS (15 OR 20 AMP CIRCUITS), UNLESS SPECIFICALLY NOTED OTHERWISE, SHALL BE 2 - #12, 1 - #12 GND, 3/4" C. A SEPARATE NEUTRAL AND GROUND SHALL BE RUN FOR EACH CIRCUIT. SEE NOTE BELOW FOR ADDITIONAL REQUIREMENTS.  
GENERAL BRANCH CIRCUITS SHALL BE PERMITTED AS MULTIWIRE CIRCUITS. ALL CONDUCTORS OF A MULTIWIRE BRANCH CIRCUIT SHALL ORIGINATE FROM THE SAME PANELBOARD OR SIMILAR DISTRIBUTION EQUIPMENT.  
EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.
- FIRE ALARM**  
ALL FIRE ALARM DEVICES ARE TO BE DESIGN AND INSTALLED BY THE FIRE ALARM CONTRACTOR.
- EXIT / EM LIGHTING**  
BRANCH CIRCUIT FEEDING EMERGENCY LIGHTING SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.
- ARC-FLASH HAZARD**  
ARC-FLASH HAZARD WARNING MARKINGS SHALL BE PROVIDED ON ELECTRICAL EQUIPMENT LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS IN ACCORDANCE WITH (NEC 106).  
APPLIES TO ≥ 50% OF RECEPTACLES IN ENCLOSED OFFICES, CONFERENCE ROOMS, COPY/PRINT ROOMS, BREAKROOMS, CLASSROOMS, INDIVIDUAL WORKSTATIONS AND 25% OF FEEDERS FOR MODULAR FURNITURE NOT ON PLANS  
• AUTO OFF BY EITHER:  
- TIME SCHEDULE, ≤ 2 HOUR OVERRIDE, CONTROL AREA ≤ 5,000FT<sup>2</sup>  
- OCCUPANCY SENSOR WITH 20 MINUTE OFF DELAY  
- AUTOMATED SIGNAL THAT SHALL AUTO OFF RECEPTACLES WITHIN 20 MINUTES OF OCCUPANTS LEAVING.  
• EITHER TOP DUPLEX RECEPTACLE CONTROLLED OR CONTROLLED RECEPTACLE WITHIN 12 INCHES OF UNCONTROLLED RECEPTACLE  
• CONTROLLED RECEPTACLES PERMANENTLY MARKED IN ACCORDANCE WITH NFPA 70 PLUG IN CONTROLLED POWER STRIPS AND DEVICES DO NOT COMPLY.
- LIGHTING & RECEPTACLE CONTROL TESTING**  
LIGHTING SYSTEMS & RECEPTACLE CONTROLS TO BE TESTED TO ENSURE PROPER CALIBRATION, ADJUSTMENT, PROGRAMMING, & OPERATION IN ACCORDANCE WITH C408.3.11 THROUGH C408.3.16.



**ARCHITECT**  
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**BUILDER**



12-30-2025 DATED | 11-30-2027 EXPIRES

ISSUANCE

BONNET WASHINGTON BUILDING  
 665 N. WASHINGTON ST.  
 NAPERVILLE, IL 60540  
 for  
 Brett Bonnett

DRAWN BY:  
AP,RT  
CHECKED BY:  
JKN

PROJECT NUMBER:  
2025-221

SHEET NUMBER:

# E2-1

OF 12 SHEETS 14

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PANEL SCHEDULE

(EXISTING) PANEL PP-1

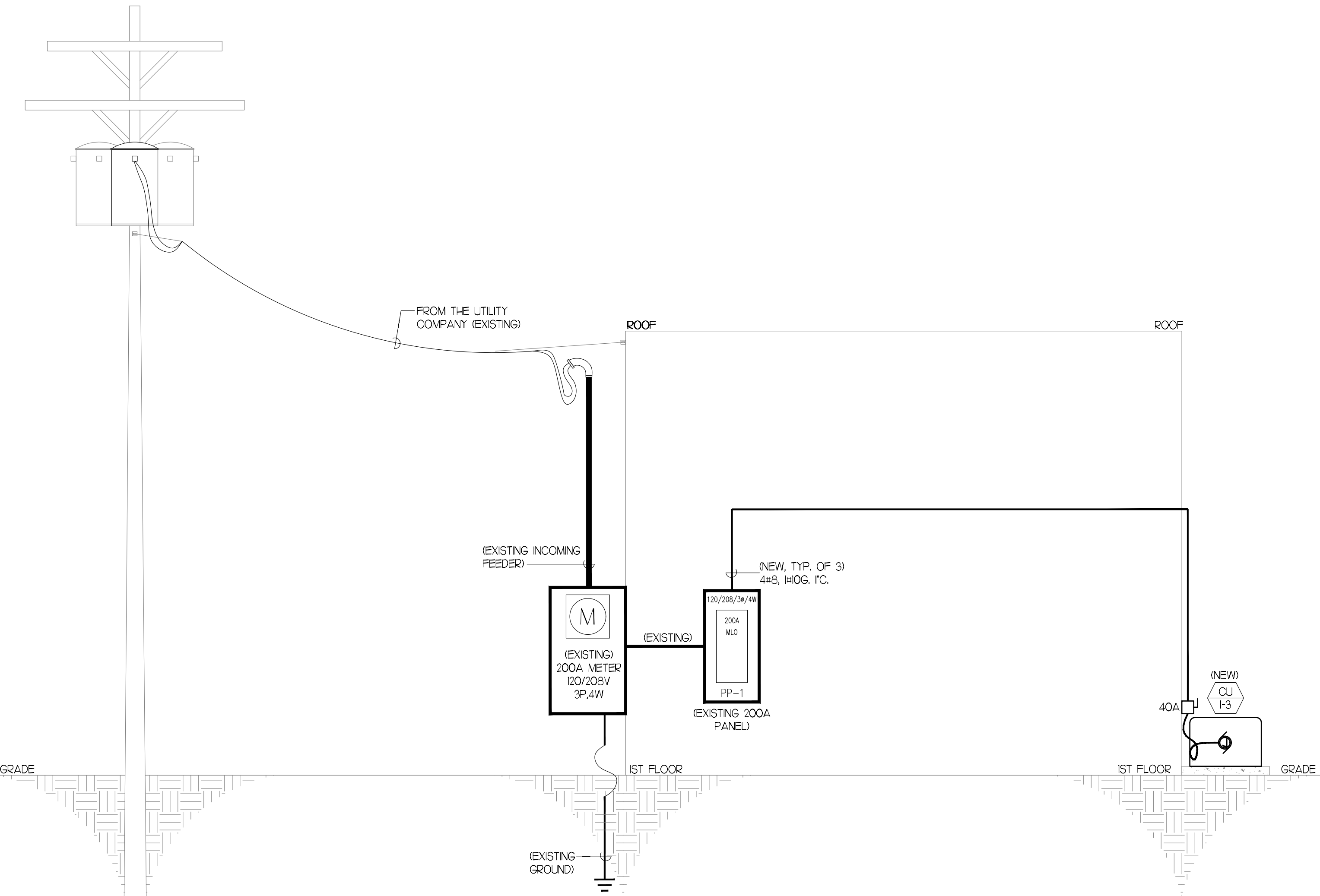
X SURFACE MOUNT  
 X FLUSH MOUNT  
 MAIN BREAKER 200 AMPS  
 MAIN LUG ONLY \_\_\_\_\_ AMPS  
 DOUBLE MAIN LUGS

PANEL JOB NO. BONNET BUILDING  
 MAIN BUS 200 AMPS  
 VOLTAGE 120/208 V  
 PHASE 3 P  
 WIRE 4 W  
 AIC RATING 22K AMPS

CKT. NO.	BREAKER			DESCRIPTION	LOAD			CKT. NO.	BREAKER			DESCRIPTION	LOAD		
	POLE	AMP	CLASS		LTG	REC	MTR		POLE	AMP	CLASS		LTG	REC	MTR
1	1	20		LACROSSE ROOM LIGHTING	1.10			A 2	1	20	EXTERIOR SIGNAGE	1.20			
3	1	20		LACROSSE ROOM LIGHTING	1.30			B 4	1	20	EXTERIOR SIGNAGE	1.20			
5	1	20		WEIGHT ROOM LIGHTING	0.80			C 6	1	20	EXTERIOR RECEPTACLES		0.90		
7	1	20		RESTROOM LTG/REC/EX	0.13	0.36	0.06	A 8	1	20	EXTERIOR RECEPTACLES		0.72		
9	1	20		EXTERIOR LIGHTING	0.55			B 10	1	20	CEILING RECEPTACLES		0.90		
11	1	20		WEIGHT ROOM CEILING FANS		1.50		C 12	1	20	CEILING RECEPTACLES		0.90		
13	1	20		CEILING SPEAKERS		1.80		A 14	1	20	GENERAL RECEPTACLES		1.26		
15	1	20		JANITOR RECEPTACLES		0.54		B 16	1	20	GENERAL RECEPTACLES		0.90		
17	1	20		CEILING SPEAKERS		0.72		C 18	1	20	GENERAL RECEPTACLES		0.72		
19	1	20		LOFT STORAGE/MECH RECEPTS.		0.36		A 20	1	20	GENERAL RECEPTACLES		0.90		
21	1	20		GARAGE DOOR OPENER		1.00		B 22	1	20	WEIGHT ROOM RECEPTACLES		1.44		
23	1	20		GARAGE DOOR OPENER		1.00		C 24	1	20	WEIGHT ROOM RECEPTACLES		1.44		
25						2.81		A 26	1	20	LOFT STORAGE/MECH LIGHTING		0.10		
27	3	40		CU-1				B 28	1	20	SPARE				
29						2.81		C 30	1	20	SPARE				
31						2.81		A 32	1	20	DRINKING FOUNTAIN		0.50		
33	3	40		CU-2				B 34	1	15	F-1			1.48	
35						2.81		C 36	1	15	F-2			1.48	
37						2.81		A 38	1	20	F-3			1.48	
39	3	40		CU-3				B 40	1	20	WH-1			0.50	
41						2.81		C 42	1	20	CU EXTERIOR RECEPTACLES		0.54		
					CONNECTED LOAD - PHASE A			2.53	5.9	9.97					
					CONNECTED LOAD - PHASE B			3.05	4.78	10.41					
					CONNECTED LOAD - PHASE C			0.8	7.72	9.91					
					TOTALS			6.4	18.4	30.3					
					TOTAL CONNECTED LOAD (KVA)			55.1							
					PHASE LOADING			PH A	PH B	PH C					
					CONNECTED LOAD (KVA)			18.4	18.2	18.4					
					CONNECTED LOAD (AMPS)			153.2	151.9	153.5					

NOTES  
EXISTING PANEL & ELECTRICAL SERVICE TO REMAIN. **BOLDDED** CIRCUITS ARE NEW.

ITEM	CONNECTED LOAD (KW)	DEMAND FACTOR	DEMAND LOAD
LIGHTING	6.38	125%	7.98
HVAC	30.29	100%	30.29
REFRIGERATION	0.00	100%	0.00
KITCHEN EQUIPMENT	0.00	65%	0.00
RECEPTACLES FIRST 10KW	10.00	100%	10.00
RECEPTACLES OVER 10KW	8.40	50%	4.20
TOTAL (KVA)	55.07		52.47
TOTAL (AMPS)	153.04		145.80



1 SINGLE LINE ELECTRICAL DIAGRAM  
SCALE: NO SCALE



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 Professional Design Firm # 18-068597

SEAL  
 JOHN K. NEVILLE  
 NO. 0252  
 LICENSED PROFESSIONAL ENGINEER  
 ILLINOIS  
 John K. Neville

12-30-2025 DATED | 11-30-2027 EXPIRES  
 PERMIT SET | DATE

BONNET WASHINGTON BUILDING  
 665 N. WASHINGTON ST.  
 NAPERVILLE, IL 60540  
 for  
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DRAWN BY: AP,RT  
 CHECKED BY: JKN  
 PROJECT NUMBER: 2025-221  
 SHEET NUMBER: E2-2

OF 13 SHEETS 14  
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ELECTRICAL SPECIFICATIONS:

SCOPE: THIS SPECIFICATION REQUIRES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO MAKE A COMPLETE AND ACCEPTABLE ELECTRICAL INSTALLATION AS SPECIFIED HEREIN AND SHOWN ON DRAWINGS. PROVIDE ALL ITEMS, ARTICLES, OPERATIONS, OR METHODS LISTED, MENTIONED, OR SCHEDULED HEREIN OR ON THE DRAWINGS, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY AND REQUIRED FOR COMPLETION OF THE WORK.

REGULATIONS, CODES AND STANDARDS: CURRENT CODE REQUIREMENTS SHALL BE SATISFIED, WHERE REQUIRED BY LOCAL, STATE, OR FEDERAL AUTHORITY HAVING JURISDICTION, NO EQUIPMENT WILL BE ACCEPTED UNLESS IT BEARS THE ACCEPTANCE LABEL OF AN APPROPRIATE TESTING AGENCY.

SHOP DRAWINGS: SUBMIT TO THE PROJECT ENGINEER FOR APPROVAL. SHOP DRAWINGS FOR ALL EQUIPMENT LISTED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS. ALLOW 10 BUSINESS DAYS FOR REVIEW BY ARCHITECT/ENGINEER. SUBMITTALS SHALL INCLUDE AS A MINIMUM THE FOLLOWING:

- A. PRODUCT DATA: MANUFACTURER'S LITERATURE DESCRIBING ITEM, MODEL NUMBERS PROPOSED SHALL BE IDENTIFIED WHEN THE LITERATURE DESCRIBES MORE THAN 01 ITEM.
B. MANUFACTURER'S SUBMITTAL: SHOWING ELECTRICAL REQUIREMENTS AND CONNECTION LOCATIONS SHALL BE PROVIDED.
C. MAINTENANCE DATA: SUBMIT MAINTENANCE DATA AND PARTS LIST FOR EACH TYPE OF EQUIPMENT REQUIRING PERIODIC MAINTENANCE.

ALL SHOP DRAWINGS SUBMITTED SHALL BE STAMPED, DATED, AND SIGNED BY THE CONTRACTOR TO CERTIFY THAT THEY HAVE BEEN CHECKED BY HIM AS TO CAPACITIES, DIMENSIONS, SPACE REQUIREMENTS AND LIMITATIONS, AND ANY AND ALL OTHER REQUIREMENTS, AND FOUND ACCEPTABLE. APPROVAL OF SHOP DRAWINGS BY THE PROJECT ENGINEER SHALL NOT RELIEVE CONTRACTOR FROM FULFILLING OPERATIONAL REQUIREMENTS, OR FURNISHING ALL MATERIAL AND EQUIPMENT SPECIFIED OR NOTED, WHETHER OR NOT SPECIFICALLY SHOWN ON THE SHOP DRAWINGS. THE QUANTITY TO BE SUBMITTED SHALL BE THE NUMBER REQUIRED BY THE GENERAL CONTRACTOR.

AS-BUILT DRAWINGS: THE CONTRACTOR SHALL SUBMIT AT COMPLETION ONE (1) SET OF MARKED-UP CONTRACT DRAWINGS WHICH SHOW ALL MODIFICATIONS TO THE CONTRACT AND CHANGES OF LOCATIONS, MATERIALS, OR CONFIGURATIONS. THIS SET SHALL BE SUBMITTED WITH THE OPERATING MANUALS TO THE PROJECT ENGINEER.

OPERATING MANUALS: PROVIDE THREE (3) MANUALS, EACH WITH A COMPLETE SET OF COPIES OF SHOP DRAWINGS REQUIRED FOR THE PROJECT INCLUDING MANUFACTURER'S TESTING, CLEANING AND MAINTENANCE INSTRUCTIONS, LIST OF MATERIALS FOR MAINTENANCE, PARTS LIST, WIRING DIAGRAMS, AND NAME AND ADDRESS OF ALL FLOODED SERVICE ORGANIZATIONS AND SUPPLIERS. INFORMATION SHALL BE BOUND IN 8 1/2" X 11" THREE-RING, LOOSE-LEAF BINDER, AND INDEXED IN ACCORDANCE WITH THESE SPECIFICATIONS. BINDER COVER SHALL IDENTIFY JOB NAME, DATE, AND NAME AND ADDRESS OF CONTRACTOR, ARCHITECT, AND ENGINEER. MANUALS SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW OF MATERIAL PRIOR TO THE FINAL INSPECTION. MANUALS WILL BE RETURNED TO THE CONTRACTOR FOR THE SUBMITTAL TO THE OWNER AT THE TIME OF SYSTEM INSTRUCTION.

OWNER INSTRUCTION: CONTRACTOR SHALL ARRANGE IN WRITING WITH THE OWNER PRIOR TO FINAL INSPECTION, A DATE OR DATES TO INSTRUCT THE OWNER, AND THE OWNER'S DESIGNATED REPRESENTATIVES, IN THE OPERATION AND MAINTENANCE OF THE SYSTEM.

FINAL INSPECTION: UPON COMPLETION OF ALL WORK, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE FOLLOWING DATA:

- 1. TESTING REPORTS
2. MAINTENANCE MANUALS

AFTER RECEIVING APPROVAL OF THE ABOVE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING AND MAKE ARRANGEMENTS FOR A FINAL INSPECTION. AFTER THE FINAL INSPECTION IS MADE, THE CONTRACTOR WILL RECEIVE A LIST OF ITEMS REQUIRING ADJUSTMENT, CORRECTION, REPLACEMENT, OR COMPLETION. THE CONTRACTOR SHALL COMPLY COMPLETELY WITH ALL THE LISTED REQUIREMENTS WITHIN THIRTY (30) DAYS OF THE RECEIPT OF LIST. SHOULD THE CONTRACTOR FAIL TO PERFORM WITHIN THIS TIME LIMIT, THE PROJECT ENGINEER AND/OR OWNER RESERVES THE RIGHT TO HAVE THE WORK COMPLETED BY OTHERS AND THE COST DEDUCTED FROM THE CONTRACT PRICE.

GUARANTEE: THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS SUPPLIED BY HIM FOR ONE (1) YEAR AFTER ACCEPTANCE OF THE WORK IN HIS CONTRACT. DURING THE GUARANTEE PERIOD, ANY DEFECTS OF FAULTY MATERIALS ARE FOUND, HE SHALL CORRECT IMMEDIATELY AND REPAIR ANY DAMAGE TO OTHER MATERIALS OR INSTALLATIONS CAUSED BY THE DEFECT.

EXTENDED WARRANTIES: WHEN EQUIPMENT IS FURNISHED BY THE CONTRACTOR, OR MANUFACTURER, WITH A WARRANTY LONGER THAN ONE (1) YEAR, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY ALONG WITH RECEIPTS OR OTHER DOCUMENTS NECESSARY FOR FUTURE WARRANTY REPAIRS. UNLESS OTHERWISE REQUIRED, EXTENDED WARRANTIES ARE FOR EQUIPMENT ONLY, NOT MATERIALS OR LABOR TO INSTALL.

MATERIALS AND EQUIPMENT: ALL EQUIPMENT AND MATERIALS TO BE INCORPORATED IN THIS CONTRACT WORK SHALL BE NEW AND OF THE MAKES AND TYPES AS SPECIFIED AND CONTRACTED FOR. NO REMOVED EQUIPMENT SHALL BE RE-INSTALLED OR RE-USED.

INSTALLATION: INSTALLATION OF ALL MATERIAL, ITEMS OR EQUIPMENT AS SHOWN ON DRAWINGS OR DESCRIBED IN SPECIFICATIONS SHALL CONFORM AS NEARLY AS POSSIBLE TO MANUFACTURER'S RECOMMENDED PROCEDURE, UNLESS DESIGNATED OTHERWISE. SHOULD SELECTION OF APPROVED ALTERNATE EQUIPMENT REQUIRE REVISIONS, THIS CONTRACTOR SHALL MAKE ALL CHANGES TO ACCOMMODATE SUCH EQUIPMENT. CONTRACTOR SHALL PREPARE DRAWINGS OF REVISIONS FOR APPROVAL BY PROJECT ENGINEER PRIOR TO BEGINNING WORK. CHANGES AND DRAWINGS SHALL BE MADE AT NO CHANGE IN CONTRACT AMOUNT.

REGULATIONS, CODES AND STANDARDS: THIS CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES AND PAY ALL FEES IN CONNECTION WITH SAME FOR WORK PERFORMED UNDER DIVISION 15.

OPENINGS, CHASES AND RECESSES: THIS CONTRACTOR SHALL GIVE GENERAL CONTRACTOR IN SUFFICIENT TIME, ALL DIMENSIONS NEEDED FOR THE PROPER CONSTRUCTION AND LOCATION OF FORMS, CHASES AND OTHER OPENINGS WHICH MAY BE REQUIRED FOR THE INSTALLATION OF ALL EQUIPMENT, PIPE, DUCTS AND MATERIALS UNDER THIS CONTRACT.

PROTECTION OF EQUIPMENT: PROTECT AGAINST INJURY FROM WEATHER ALL BUILDING MATERIALS, SUPPLIES, TOOLS, EQUIPMENT, AND FIXTURES INSTALLED OR TO BE INSTALLED, WITH SUITABLE AND SUBSTANTIAL COVERS. COST OF REPLACING OR REPAIRING EQUIPMENT AND FIXTURES MADE NECESSARY BY FAILURE TO PROVIDE SUITABLE PROTECTION SHALL BE PAID BY THIS CONTRACTOR. RESPONSIBILITY FOR THE CARE AND PROTECTION OF MECHANICAL EQUIPMENT AND WORK SHALL REMAIN WITH THIS CONTRACTOR UNTIL IT HAS BEEN TESTED AND ACCEPTED. PROTECT EQUIPMENT, OUTLETS, PIPE, DUCT, AND CONDUIT OPENINGS WITH TEMPORARY PLUGS, CAPS, OR APPROVED DEVICES.

CLEANING: AFTER ALL FIXTURES, MATERIALS, AND APPARATUS HAVE BEEN SET AND READY FOR USE, AND BEFORE THIS CONTRACTOR LEAVES THE JOB, HE SHALL THOROUGHLY CLEAN ALL EQUIPMENT FURNISHED AND SET BY HIM REMOVING ALL STICKERS, RUST STAINS, GREASE, CEMENT, AND OTHER FOREIGN MATTER OR DISCOLORATION ON EQUIPMENT, LEAVING EVERY PART IN ACCEPTABLE CONDITION READY FOR USE. CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS RESULTING FROM HIS WORK, LEAVING BUILDING IN CLEAN CONDITION, SUITABLE FOR OCCUPANCY.

CONDUIT AND FITTINGS:

ALL CONDUIT SHALL BE THINWALL WITH SET SCREW FITTINGS. ALL CONNECTORS SHALL HAVE INSULATED BUSHINGS OR THROAT-TYPE BUSHINGS.

SURFACE RACEWAY SHALL BE WIREMOLD NO. 500 OR NO. 700.

UNDERGROUND RACEWAY:

RVC, TYPE EPC-40-PVC COMPLYING WITH NEMA TC2 AND UL 651 DIRECT BURIED. MINIMUM BURIAL DEPTH OF 18".

BOXES AND COVERS:

ALL BOXES SHALL BE OF PROPER SIZE AND SHAPE FOR ALL CONDUITS AND CONDUCTORS ENTERING THEM.

CABLE AND WIRE:

ALL WIRE SHALL HAVE COPPER CONDUCTORS AND BE LISTED BY UNDERWRITERS LABORATORIES, INC. ALL WIRE SHALL BE TYPE THWN 75C, INSULATION FOR SIZES NO. 6 TO 500 MCM AND TYPE THHN 90C, INSULATION FOR SIZES NO. 12 TO NO. 8.

ELECTRICAL WIRING DEVICES:

SCHEDULE OF ALL ELECTRICAL DEVICES-

MANUFACTURER'S NAME

DEVICE AND CATALOG NUMBER RATING

Table with 3 columns: DEVICE AND CATALOG NUMBER, RATING, and specific device details like HUBBELL #1231, BRYANT #4901H, etc.

FLOOR BOXES SHALL BE TAMPER RESISTANT COMBINATION POP-UP BOX WITH DUPLEX RECEPTACLE AND DATA PORTS. WATER TIGHT GASKET, NICKEL PLATE BRASS FINISH.

WET LOCATION RECEPTACLES SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED.

ALL DEVICES AND COVERS TO BE WHITE.

WIRING DEVICE PLATES:

ALL DEVICE PLATES SHALL BE FURNISHED WITH PROPER OPENINGS FOR THE DEVICE WITH WHICH IT IS BEING USED. WHERE REQUIRED, MULTIPLE GANG PLATES FOR CORRECT COMBINATION SHALL BE USED WITH THE PROPER OPENING FOR THE DEVICE WITH WHICH THEY ARE BEING USED. THE PLATES SHALL BE COLOR AS SELECTED BY ARCHITECT.

OPENINGS IN CONSTRUCTION:

OPENINGS BETWEEN CONDUIT AND FLOORS OR WALLS THROUGH FIRE OR SMOKE BARRIERS SHALL BE CLOSED WITH FIRE STOP MATERIAL TO MAINTAIN FIRE OR SMOKE BARRIER RATING. FIRE STOP MATERIAL SHALL BE DOW CORNING 3-6548 SILICONE RTV FOAM, CHASE TECHNOLOGY CORP. CTC FR-855 FIRE RESISTANT FOAM SEALANT, 3M, 303 FIRE BARRIER, T E B 3-FOI FIRE BARRIER OR NELSON FLAMESEAL.

INSTALLATION OF RACEWAYS AND CONDUITS:

ALL CONDUIT SHALL BE CONCEALED IN WALL CONSTRUCTION AND/OR ABOVE CEILING CONSTRUCTION EXCEPT IN MECHANICAL EQUIPMENT ROOMS, WHERE IT MAY BE EXPOSED AT THE CEILING OR ON WALLS. THE ROUTING OF CONDUIT SHOWN ON THE DRAWINGS IS DIAGNOSTIC ONLY, AND THIS CONTRACTOR SHALL INSTALL CONDUIT AS REQUIRED TO COMPLETE THE SYSTEMS SO AS NOT TO INTERFERE WITH OTHER TRADES IN BOTH ELEVATION AND LOCATION. INSTALL FLEXIBLE CONDUIT FOR FINAL CONNECTIONS FOR ALL RECESSED LIGHTING FIXTURES, (FLUORESCENT AND INCANDESCENT), AND ALL VIBRATION GENERATING EQUIPMENT EXCEPT WHERE FLEXIBLE LIQUID-TIGHT IS SPECIFICALLY CALLED FOR. A MAXIMUM LENGTH OF FLEXIBLE STEEL CONDUIT SHALL BE LIMITED TO 6'-0".

INDOOR OCCUPANCY / VACANCY SENSORS:

OCCUPANT SENSOR CONTROLS WILL BE INSTALLED IN THE FOLLOWING SPACE TYPES, CLASSROOMS, LECTURE/TRAINING ROOMS, CONFERENCE/MEETING/MULTIPURPOSE ROOMS, COPY/PRINT ROOMS, LOUNGES/BREAK ROOMS, ENCLOSED OFFICES, OPEN PLAN OFFICE AREAS, RESTROOMS, STORAGE ROOMS, LOCKER ROOMS, OTHER SPACES 300 SQUARE FEET OR LESS THAT ARE ENCLOSED BY FLOOR TO CEILING HEIGHT PARTITIONS, AND WAKE-UP/CLUSES. THESE CONTROLS SHALL AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE. SHALL TURN THE LIGHTING ON TO NOT MORE THAN 50 PERCENT POWER, AND HAVE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN LIGHTS OFF.

WALL-SWITCH SENSOR: 180 DEGREE FIELD OF VIEW, WITH A MINIMUM COVERAGE AREA OF 2100 SQ. FT. PIR SENSING TECHNOLOGY. SP SWITCH, VACANCY SENSOR MANUAL ON. ACCEPTABLE MANUFACTURERS: COOPER HUBBELL, LEVITON, SENSOR SWITCH, LUTRON, NSI, WATT STOPPER

CEILING SENSOR - STANDARD RANGE: 360 DEGREE FIELD OF VIEW, WITH A MINIMUM COVERAGE AREA OF 450 SQ. FT. PIR SENSING TECHNOLOGY, ACCEPTABLE MANUFACTURERS: COOPER HUBBELL, LEVITON, SENSOR SWITCH, LUTRON, NSI, WATT STOPPER.

CEILING SENSOR - EXTENDED RANGE: 360 DEGREE FIELD OF VIEW, WITH A MINIMUM COVERAGE AREA OF 2400 SQ. FT. PIR SENSING TECHNOLOGY, ACCEPTABLE MANUFACTURERS: COOPER HUBBELL, LEVITON, SENSOR SWITCH, LUTRON, NSI, WATT STOPPER.

CEILING SENSOR - HIGH BAY: 360 DEGREE FIELD OF VIEW, WITH A MINIMUM COVERAGE AREA OF 2800 SQ. FT. AT MOUNTING HEIGHTS OF UP TO 45 FT. PIR SENSING TECHNOLOGY, ACCEPTABLE MANUFACTURERS: COOPER HUBBELL, LEVITON, SENSOR SWITCH, LUTRON, NSI, WATT STOPPER.

LIGHTING TIMER CONTROLS

INTERMATIC ETIQC OR SIMILAR 24-HOUR I-CIRCUIT ELECTRONIC CONTROL, 120-277 VAC, 60 HZ, SPST INDOOR METAL ENCLOSURE TO ALLOW FOR UP-TO-THE-MINUTE PROGRAMMING, 7-DAY ASTRONOMIC, BATTERY BACKUP FOR POWER LOSS, UP TO 28 EVENTS TOTAL, AND AUTOMATIC DAYLIGHT SAVING TIME CORRECTIONS WITHOUT THE NEED OF USER INTERVENTION.

WIRING JOINTS:

MAKE ALL BRANCH CIRCUIT JOINTS FOR WIRE UP TO AND INCLUDING NO. 10 AWG WITH EXPANDABLE STEEL SPRING AND POLYPROPYLENE BODY-TYPE CONNECTORS AND WIRE NUTS MANUFACTURED BY IDEAL, SCOTCH, BUCHANAN OR ARCHITECT/ENGINEER APPROVED EQUAL.

HEIGHTS OF WALL SWITCHES AND RECEPTACLES:

FOR ADDITIONS OR ALTERATIONS, DETERMINE THE EXACT HEIGHT OF EACH LIGHT, RECEPTACLE OUTLETS, AND OUTLET BOXES ON THE PREMISES AND EXAMINE THE GENERAL DRAWINGS AND DETAILS TO SEE THAT OUTLETS ARE PROPERLY SPACED AND LOCATED WITH RELATION TO THE INTERIOR FINISH AND TREATMENT. MOUNTING HEIGHTS SHALL BE HELD AS NEAR AS POSSIBLE TO THE CENTERLINE OF THE EQUIPMENT. FOR NEW CONSTRUCTION, SEE TABLE ON FIRST 9-9-EE7.

TELEPHONE/DATA CONDUIT SYSTEM:

IN GENERAL, ALL OUTLETS SHOWN SHALL HAVE A T EMPTY CONDUIT STUBBED INTO CORRIDOR CEILING OR INTO CEILING SPACE WHERE THE CEILING TILE IS REMOVABLE. THE CONDUITS SHALL BE STUBBED INTO AREAS THAT ARE ACCESSIBLE FOR INSTALLATION OF TELEPHONE CABLES. THE CONDUIT STUBS SHALL BE FURNISHED WITH PLASTIC BUSHINGS.

IN CERTAIN AREAS WHERE THE CEILINGS ARE PLASTER OR CONCEALED SPLINE TILE, A COMPLETE CONDUIT SYSTEM FROM OUTLET TO TERMINAL CABINETS SHALL BE INSTALLED. ALL TELEPHONE/DATA OUTLETS SHALL BE FURNISHED WITH BLANK COVERPLATES. THE COVERPLATES SHALL BE OF THE SAME MATERIAL AND FINISH AS OTHER DEVICE PLATES IN THE PROJECT.

ALL TELEPHONE/DATA OUTLETS SHALL BE 4" X 4" X 2-1/8" DEEP BOXES WITH SINGLE SQUARE CUT COVER. INSTALL ALL CONDUITS WITH NYLON FISH LINES TO FACILITATE THE EASY INSTALLATION OF TELEPHONE CABLES. ALL OUTLETS SHALL BE MOUNTED AS NOTED ELSEWHERE IN THIS SPECIFICATIONS, EXCEPT FOR UNITS INDICATED AS WALL OUTLETS WHICH SHALL BE MOUNTED 48" ABOVE THE FLOOR. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DATA AND PHONE CABLING.

GROUNDING:

PROVIDE A GROUND WIRE IN ALL RACEWAYS. PROVIDE A NEUTRAL WIRE AT EACH SWITCH BOX LOCATION. ALL RECEPTACLES REQUIRE A PIGTAIL GROUNDING WIRE TO THE BOX.

INSTALL ALL OUTLETS WITH A GREEN JUMPER WIRE FROM THE GROUND TERMINAL OF THE OUTLET TO A GROUNDING LUG IN THE OUTLET BOX. INSTALL SEPARATE GREEN GROUND WIRE (IN ADDITION TO BRANCH CIRCUIT CONDUCTORS) AND BOND TO ELECTRICAL EQUIPMENT WHERE FLEXIBLE METAL CONDUIT AND LIQUID TIGHT FLEXIBLE CONDUIT IS USED AS A FINAL CONNECTION TO ELECTRICAL EQUIPMENT, BOND THE GREEN CONDUCTOR TO CONDUIT SYSTEM IN THE LAST JUNCTION BOX AND TO ALL ELECTRICAL EQUIPMENT, I.E., LIGHTING FIXTURES, MOTORS AND OTHER EQUIPMENT.

THE COMPLETE GROUNDING SYSTEM SHALL BE DONE WITH GROUNDING CONDUCTORS THROUGHOUT THE ENTIRE PROJECT INSTALLATION. SEPARATE GROUNDING CONDUCTORS FOR ALL BRANCH CIRCUITS ARE NOT SHOWN ON THE DRAWINGS, BUT SHALL BE INCLUDED IN ALL RACEWAYS AS IF SET FORTH ON THE DRAWINGS. SEPARATE GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL BRANCH CIRCUITS. GROUNDING CONDUCTORS SHALL BE INSTALLED IN THE SAME CONDUIT RUNS AS THE PHASE AND NEUTRAL CONDUCTORS. THE SIZE OF THE GROUNDING CONDUCTORS SHALL BE IN STRICT ACCORDANCE WITH TABLE NO. 250-122 OF THE NATIONAL ELECTRICAL CODE.

BONDING:

PROVIDE BONDING JUMPER BETWEEN HOT AND COLD WATER PIPES WITH A JUMPER SIZED ACCORDING TO NEC TABLE 250.02.

DISCONNECT SWITCHES:

ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY MULTIPLE POLE ENCLOSED-TYPE SAFETY SWITCHES. ALL SWITCHES SHALL BE THE FUSIBLE TYPE WITH REJECTION-TYPE FUSE CLIPS.

ALL SWITCHES SHALL BE NEMA 1 OR 3R ENCLOSURES AND SHALL BE UL LISTED.

EACH DISCONNECT SWITCH SHALL BE FURNISHED WITH AN ENGRAVED PLASTIC OR METAL STRIP AS SPECIFIED UNDER IDENTIFICATION OF EQUIPMENT PERMANENTLY ATTACHED TO OUTSIDE COVER, INDICATING DEVICE USAGE OR EQUIPMENT CONTROLLED, SUCH AS FAN OFF. NUMBER SHALL BE THE SAME AS THOSE ON DRAWINGS AND TEMPERATURE CONTROL DIAGRAM.

ENCLOSED CIRCUIT BREAKERS:

PROVIDE INDIVIDUALLY ENCLOSED MOLDED CASE CIRCUIT BREAKERS AS SHOWN ON THE PLANS. ALL CIRCUIT BREAKERS SHALL MEET FEDERAL SPECIFICATION W-C-375B AND BOTH CIRCUIT BREAKER AND THE ENCLOSURE SHALL BE UL LISTED.

MOLDED CASE CIRCUIT BREAKERS SHALL HAVE OVERCENTER TOGGLE-TYPE MECHANISMS, PROVIDING QUICK-MAKE, QUICK-BREAK ACTION. BREAKERS SHALL BE CALIBRATED FOR OPERATION IN AN AMBIENT TEMPERATURE OF 40° C. EACH CIRCUIT BREAKER SHALL HAVE TRIP INDICATION BY HANDLE POSITION AND SHALL BE TRIP-FREE. THREE POLE BREAKERS SHALL BE COMMON TRIP. EACH CIRCUIT BREAKER SHALL HAVE A PERMANENT TRIP UNIT CONTAINING INDIVIDUAL THERMAL AND MAGNETIC TRIP ELEMENTS IN EACH POLE.

CIRCUIT BREAKERS WITH FRAME SIZES GREATER THAN 100 AMPERES SHALL HAVE VARIABLE MAGNETIC TRIP ELEMENTS WHICH ARE SET BY A SINGLE ADJUSTMENT. A BUTTON SHALL BE PROVIDED ON THE COVER FOR MECHANICALLY TRIPPING THE CIRCUIT BREAKER. THE CIRCUIT BREAKERS SHALL BE CONSTRUCTED TO ACCOMMODATE THE SUPPLY CONNECTIONS AT EITHER END OF THE CIRCUIT BREAKER.

BREAKER SHALL BE UL LISTED WITH A SHORT CIRCUIT CURRENT RATING OF 42,000 RMS SYMMETRICAL AMPERES.

NEUTRALS SHALL BE FURNISHED IN DEVICE ENCLOSURE. NEUTRALS SHALL BE INSULATED AND ARE TO BE GROUNDABLE FOR USE IN SERVICE ENTRANCE APPLICATIONS.

ENCLOSURES SHALL BE NEMA 1, FURNISHED WITH KNOCKOUTS WHERE PRACTICAL, AND SHALL BE FABRICATED FROM SHEET STEEL WHICH CONFORMS TO UL 50. THE ENCLOSURE SHALL BE GIVEN AN ELECTRO DEPOSITED, GRAY BAKED ENAMEL FINISH. PADLOCKING PROVISIONS SHALL BE PROVIDED TO ALLOW LOCKING THE CIRCUIT BREAKER IN THE "OFF" POSITION. ENCLOSURES SHALL BE UL LISTED.

ENCLOSED BREAKERS SHALL BE MANUFACTURED BY SQUARE D, GENERAL ELECTRIC OR SIEMENS ITC.

FORWARD SUBMITTALS TO ARCHITECT/ENGINEER FOR REVIEW.

INTERIOR LIGHT FIXTURES:

FURNISH EACH FIXTURE WITH LAMPS AS NOTED ON THE FIXTURE SCHEDULE. ALL FIXTURES SHALL BE CSA LISTED.

PROVIDE ALL LIGHT FIXTURES AS SHOWN ON THE DRAWINGS AND AS HEREINAFTER SPECIFIED.

ALL RECESSED FIXTURES SHALL BE SUITABLE FOR INSTALLATION IN THE CEILING AND/OR THE SUSPENSION SYSTEM THEY ARE TO BE INSTALLED IN. CHECK THE FIXTURE TYPES AGAINST THE APPROVED TYPE OF CEILING MATERIAL IN EACH ROOM AND INSTALL THE PROPER FLUORESCENT FIXTURE TRIMS TO FIT THE CEILING SUSPENSION SYSTEM.

ALL FIXTURES SHALL BE SUITABLE FOR OPERATION AT 120 VOLT, (277 VOLT) 60 HERTZ UNLESS OTHERWISE NOTED ON THE FIXTURE SCHEDULE.

FIXTURES SHALL HAVE SPECIFIED FINISH. WHERE FINISH IS NOT MENTIONED, IT SHALL BE OBTAINED FROM THE ARCHITECT/ENGINEER.

FORWARD A BOUND BROCHURE OF ALL LIGHTING FIXTURES INDICATING FIXTURE TYPES, FINISHES, LAMPS, DETAILS, ETC. TO THE ARCHITECT/ENGINEER FOR REVIEW. SEE LIGHT FIXTURE SCHEDULE ON THE DRAWINGS FOR ADDITIONAL INFORMATION.

LED FIXTURES:

LED FLAT PANEL FIXTURES: SEAMLESS ALUMINUM FRAME, SATIN WHITE LENS WITH FULLY LUMINOUS APPEARANCE. T-BAR CLIPS FOR INSTALLATION INTO 15/16" T-GRID CEILINGS. LONG-LIFE LED'S, HIGH-EFFICIENCY DRIVER, 70% LED LUMEN MAINTENANCE AT 60,000 HOURS. 0-10V DIMMING DRIVER, DIMS TO 10%.

LOW PROFILE VOLUMETRIC FIXTURES: CENTER BASKET DESIGN. HIGH REFLECTIVE MATTE WHITE POWDER PAINT FINISHED REFLECTOR. END PLATES WITH T-BAR CLIPS. 80% LED LUMEN MAINTENANCE AT 60,000 HOURS.

CSA CERTIFIED TO MEET US AND CANADIAN STANDARDS. 5-YEAR LIMITED WARRANTY.

EXIT LIGHTING SYSTEM:

CONNECT ALL EXIT LIGHTING UNITS TO AN UNSWITCHED CIRCUIT ORIGINATED FROM THE SAME BRANCH CIRCUIT AS THAT SERVING NORMAL LIGHTING IN THE LOCAL AREA.

ALL EXIT FIXTURES AS NOTED IN LIGHT FIXTURE SCHEDULE ON THE DRAWINGS SHALL BE OF THE SELF-CONTAINED TYPE WITH THE FOLLOWING ITEMS:

- 1. MAINTENANCE FREE, RECHARGEABLE, NICKEL CADMIUM BATTERY HAVING A 10 YEAR LIFE RATING AND WARRANTY AND CAPABLE OF POWERING THE CONNECTED LAMPS FOR 1 1/2 HOURS TO 87-1/2% OF INITIAL NOMINAL BATTERY VOLTAGE.
2. AUTOMATIC CHARGER WITH MULTI-RATE, SOLID-STATE RECTIFIER WITH SENSING DEVICE AND CHARGE TRANSFORMER TO CHARGE THE BATTERY TO 100% OF BATTERY CAPACITY WITHIN 12 HOURS FOLLOWING FULL RATED LOW DISCHARGE TO 87-1/2% NORMAL VOLTAGE.
3. TEST SWITCH TO SIMULATE A POWER FAILURE AND TO CYCLE THE CHARGING CIRCUIT.
4. AUTOMATIC TRANSFER SWITCH TO IMMEDIATELY ENERGIZE ALL LAMPS CONNECTED TO UNIT UPON FAILURE OF NORMAL POWER.
5. PILOT AND READY LIGHT.
6. MOUNT INTEGRAL BATTERY AND CHARGER EMERGENCY PACK WITHIN THE EXIT HOUSING AND ACCESSIBLE FOR SERVICE WITHOUT REMOVING EXIT SIGN FROM ITS MOUNTING.
7. LED LAMPS.

THESE UNITS SHALL BE FULLY AUTOMATIC WITH SOLID-STATE SWITCHING. UPON NORMAL AC POWER FAILURE, TWO EMERGENCY LAMPS WILL OPERATE ON BATTERY POWER FOR THE MINIMUM REQUIRED 1 1/2 HOURS WITHOUT REDUCING BATTERY VOLTAGE LOWER THAN 87-1/2% OF NOMINAL RATED VOLTAGES AS REQUIRED BY NEC AND OSHA. UPON RESTORATION OF REGULAR POWER SUPPLY, THE UNIT SHALL SWITCH BACK TO NORMAL MODE AND CHARGER SHALL RECHARGE BATTERY WITHIN 24 HOURS.

FORWARD SUBMITTALS TO ARCHITECT/ENGINEER FOR REVIEW.

BATTERY-OPERATED EMERGENCY LIGHT (SURFACE):

CONNECT ALL BATTERY OPERATED EMERGENCY LIGHTING UNITS TO AN UNSWITCHED CIRCUIT ORIGINATED FROM THE SAME BRANCH CIRCUIT AS THAT SERVING NORMAL LIGHTING IN THE LOCAL AREA.

PROVIDE WHERE SHOWN ON THE DRAWINGS, SURFACE SELF-CONTAINED, BATTERY-OPERATED EMERGENCY LIGHTING UNIT.

THE SURFACE, BATTERY-OPERATED EMERGENCY LIGHTING UNITS SHALL BE SUITABLE FOR CEILING MOUNTING WITH PROPER MOUNTING BRACKETS AT A HEIGHT AS INDICATED ON THE DRAWINGS. UNIT SHALL HOUSING SHALL BE THERMOPLASTIC. UNIT SHALL HAVE REMOVABLE COVER TO PROVIDE FULL ACCESS TO BATTERY, CHARGER, FUSES, WIRING AND OTHER COMPONENTS. FINISH SHALL BE MATTE WHITE AND CHROME LAMP-HEADS.

THE SURFACE BATTERY-OPERATED, EMERGENCY LIGHTING UNITS SHALL BE COMPLETE WITH THE FOLLOWING:

- 1. TWO ADJUSTABLE LED LAMP-HEADS.
2. 3.6V PREMIUM GRADE, NICKEL CADMIUM BATTERY WITH 10 YEAR EXPECTED LIFE.
3. ENVIRONMENTALLY COATED, SOLID STATE CHARGER, LOW VOLTAGE DISCONNECT.
4. FULLY ADJUSTABLE 15WATT, GLARE-FREE LIGHTING HEADS.
5. INJECTION-MOLDED, FLAME RETARDANT, HIGH IMPACT, THERMOPLASTIC HOUSING.
6. LOW-PROFILE TEST SWITCH AND LED CHARGE RATE INDICATOR LIGHT.
7. REGULATED CHARGE VOLTAGE.
8. AC LOCKOUT.
9. OVERLOAD/SHORT CIRCUIT PROTECTION.
10. BROWN OUT PROTECTION.

IL UL 924 LISTED.

CONNECT UNIT TO AN UNSWITCHED 120 VOLT CIRCUIT. THIS CIRCUIT SHALL BE THE SAME CIRCUIT THAT SERVES THE CORRIDOR OR AREA LIGHTING.

FORWARD SUBMITTALS TO ARCHITECT/ENGINEER FOR REVIEW.

SUPPORT FOR LIGHT FIXTURES:

SUPPORT ALL FIXTURES FROM THE BUILDING STRUCTURE AND NOT FROM THE CEILING SUSPENSION SYSTEM (SUCH AS A T-BAR SYSTEM FOR A SUSPENDED ACOUSTICAL TILE CEILING). SUPPORT THE FIXTURES FROM THE BAR JOISTS, FLOOR STRUCTURE OR ROOF STRUCTURE ABOVE WITH 1/2 GAUGE ZINC COATED STEEL WIRE. INSTALL MINIMUM OF TWO HANGERS FOR EACH FIXTURE. WHERE A FIXTURE OCCURS UNDER DUCTS, THE WIDTH OF DUCT SHALL BE SPANNED WITH METAL FRAMING CHANNEL, SUSPENDED AND SUPPORTED AT BOTH ENDS AND THE FIXTURE ATTACHED TO THE METAL FRAMING CHANNEL.

WHERE RECESSED FIXTURES OCCUR IN GRID SYSTEM FIXTURES SHALL BE SECURELY FASTENED TO THE GRID SYSTEM MEMBERS WITH SAFETY TIE BAR CLIPS. FURNISH AND INSTALL 4 CLIPS PER FIXTURE.

FIRE ALARM DEVICES:

VISUAL SIGNAL APPLIANCES SHALL BE PROVIDED IN EACH OF THE FOLLOWING AREAS: MEETING ROOMS, RESTROOMS, HALLWAYS, LOBBIES, AND ANY OTHER GENERAL OR COMMON USE AREAS. BATH-ROOMS SHALL ALSO REQUIRE VISUAL ALARMS.



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Seal: JOHN K. NEVILLE 602-DESIGN LICENSED PROFESSIONAL ENGINEER ILLINOIS

12-30-2025 DATED 11-30-2027 EXPIRES

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