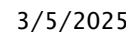
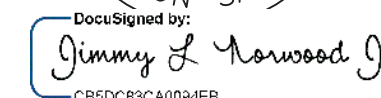




1848 Wake Forest Road
Raleigh, NC 27608
t. 919-985-4483
www.wdesignus.com



TENANT FIT UP FOR:
**CELTIC CRAWLERS OFF
ROAD GARAGE**
214 FISH DRIVE
ANGIER, NC 27504

PROJECT NUMBER
225100

DATE
MARCH 4, 2025

REVISIONS:

[illegible]

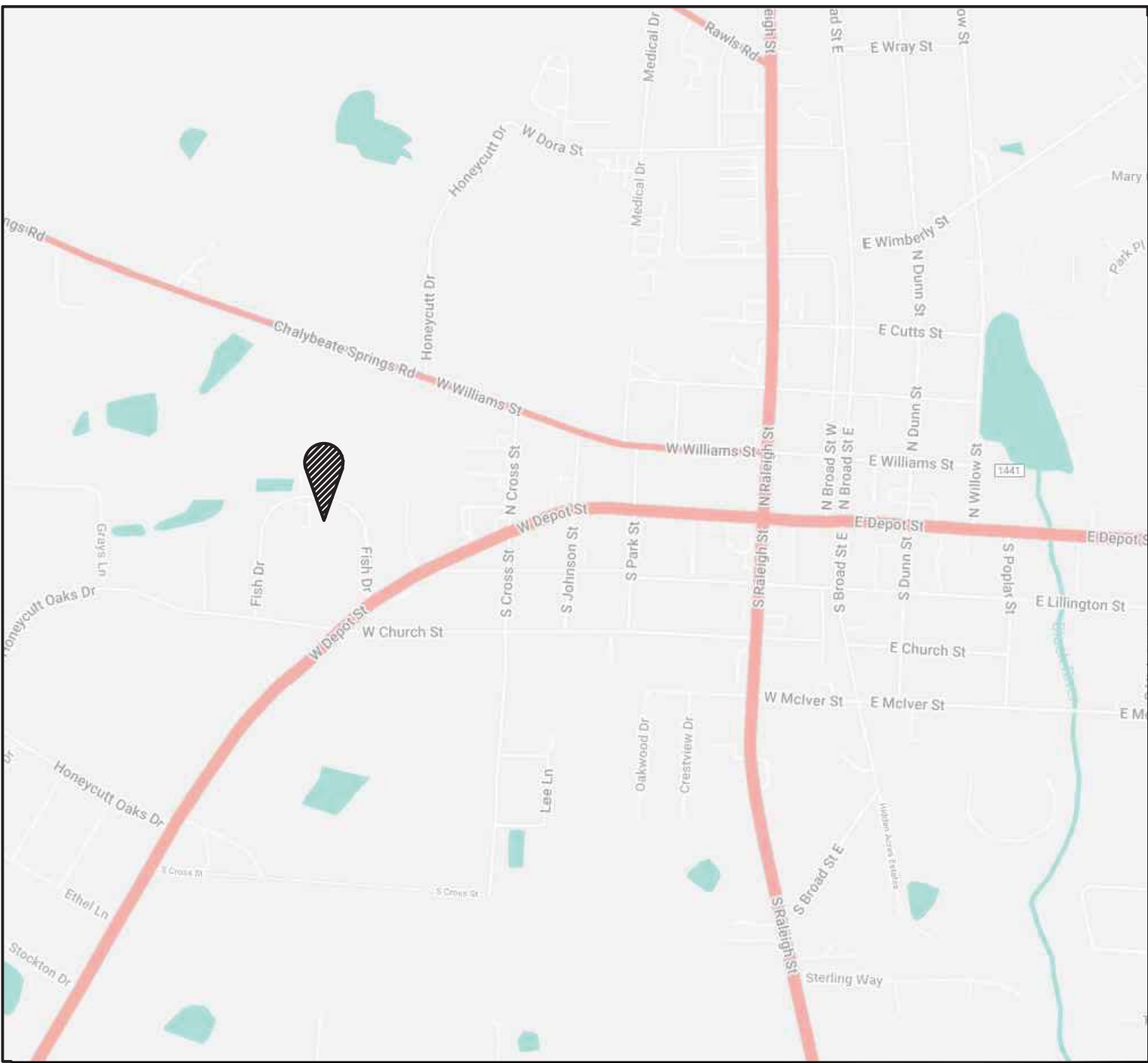
TITLE
SHEET

T001

214 FISH DRIVE
ANGIER, NORTH CAROLINA
PERMIT SET - 3/4/2025

Architect:
Wilkinson Design, PLLC

PM&E Engineer:
WILLIAM H. CLARK, P.E.



T001	TITLE SHEET
C001	BUILDING CODE SUMMARY
C002	UL ASSEMBLIES

ARCHITECTURAL

A100	FLOOR PLAN
A400	REFLECTED CEILING PLAN
A500	FINISH PLAN
A501	INTERIOR ELEVATIONS
A600	DOOR SCHEDULES
A700	SECTIONS

PLUMBING:

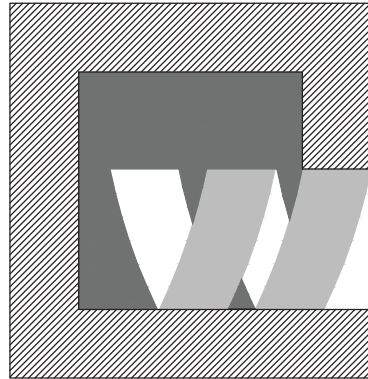
P0.1	PLUMBING SPECIFICATIONS, NOTES & LEGEND
P0.2	FIXTURE SCHEDULE, NOTES & LEGEND
P1.1	FLOOR PLANS - WASTE & VENT
P1.2	FLOOR PLANS - DOMESTIC WATER
P4.1	DETAILS

MECHANICAL

M0.1 SPECIFICATIONS - HVAC
M0.2 NOTES & LEGEND - HVAC
M1.1 FLOOR PLAN - HVAC

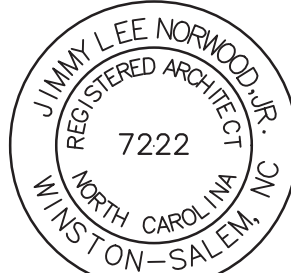
ELECTRICAL

E0.1	SPECIFICATIONS - ELECTRICAL
E0.2	NOTES, LEGEND & LIGHT FIXTURE SCHEDULES
E1.1	PARTIAL FLOOR PLAN - LIGHTING
E2.1	PARTIAL FLOOR PLAN - POWER/IT
E4.1	DETAILS



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DocuSigned by:
Jimmy Lee Norwood, Jr.
0B5DCE8C8A9A8F8



3/5/2025

TENANT FIT UP FOR:
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GARAGE**
214 FISH DRIVE
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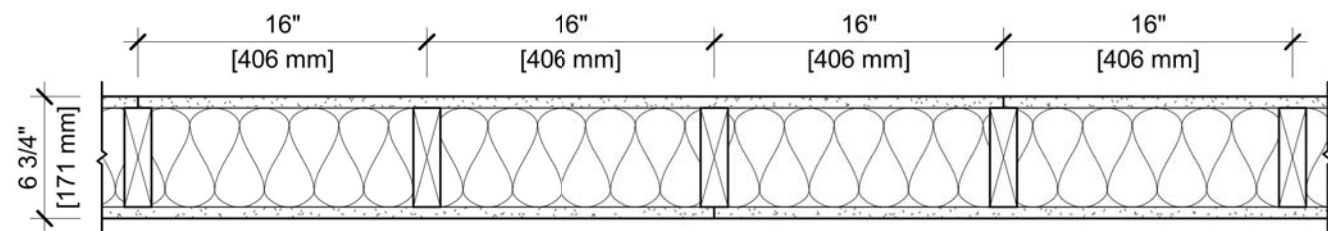
REVISIONS

UL LISTING

ASSEMBLIES

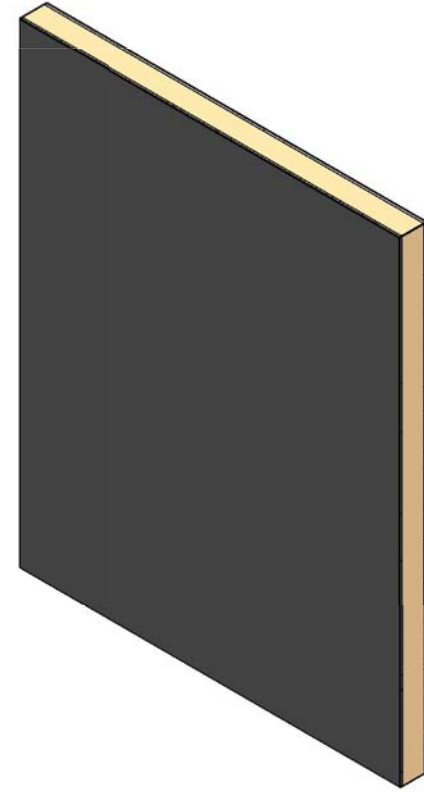
C002

DESIGN NO. UL U305
FIRE RATING: 1 HOUR
STC RATING: 35
SOUND TEST: US3-161214
SYSTEM THICKNESS: 6-3/4" [171 mm]
LOCATION: INTERIOR
FRAMING TYPE: WOOD STUD (LOAD-BEARING)



ASSEMBLY REQUIREMENTS:

GYPSUM PANELS: ONE LAYER 5/8" [15.9 MM] SHEETROCK® GYPSUM PANEL (UL TYPE SCX)
WOOD STUDS: 2" X 6" [38 X 140 MM] WOOD STUDS, 16" [406 MM] O.C.
INSULATION: 6-1/4" [158 MM] FIBERGLASS INSULATION
GYPSUM PANELS: ONE LAYER 5/8" [15.9 MM] SHEETROCK® GYPSUM PANEL (UL TYPE SCX)



- GENERAL WALL NOTES:**
1. REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO CONSTRUCTION.
 2. FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED DESIGN.
 3. WHERE DESIGN NO. INDICATES "PER", THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES.
 4. STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
 5. STUD AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
 6. PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED DESIGN.
 7. FIRE-RATINGS ARE FROM BOTH SIDES UNLESS OTHERWISE STATED.
 8. FIRE-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, INCREASE STUD MATERIAL THICKNESS, DECREASE STUD SPACING, DECREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH.
 9. WHERE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE, THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES.
 10. SOUND-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, DECREASE STUD MATERIAL THICKNESS, INCREASE STUD SPACING, INCREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH. MODIFICATIONS MUST NOT EXCEED LIMITATIONS OF FIRE RATING.

USG CGC
USG Corporation
500 West Adams Street
Chicago, IL 60661 USA
www.usg.com
T. 800.USAUSG

DISCLAIMER: THE USG PRODUCT INFORMATION CONTAINED HEREIN ARE INTENDED FOR USE AS PRODUCT REFERENCE MATERIAL BY ARCHITECTS, ENGINEERS, AND OTHER DESIGN PROFESSIONALS. CONTRACTORS, BUILDING CODE OFFICIALS, OR OTHER COMPETENT CONSTRUCTION INDUSTRY TRADE PROFESSIONALS SHOULD BE INTERESTED IN THE SELECTION, APPLICATION, AND USE OF PRODUCTS AS TECHNICAL SUPPORT INCIDENT TO THE SALE AND USE OF USG PRODUCTS AND NOT INTENDED TO BE A SUBSTITUTE FOR THE DESIGN REVIEW AND APPROVAL OF THE LICENSED DESIGN PROFESSIONAL. ELECTRONICALLY SIGNED BY THE USER BECAUSE CAN ELECTRONIC FILED AND AM BUILDING INFORMATION MODELING FILED HAVE SIGNED BY OTHER PARTIES. WITHOUT NOTICE OR RECORDATION OF SUCH RESPONSIBILITY, SIGNATURE OF USG PRODUCT CAD DRAWINGS IS THE SOLE RESPONSIBILITY OF THE DESIGN PROFESSIONAL.

UL U305

**ISSUE
RECORD:**

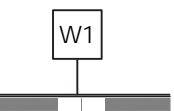
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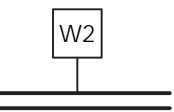
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W-P-1-13

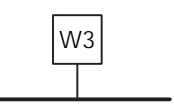
WALL ASSEMBLY LEGEND



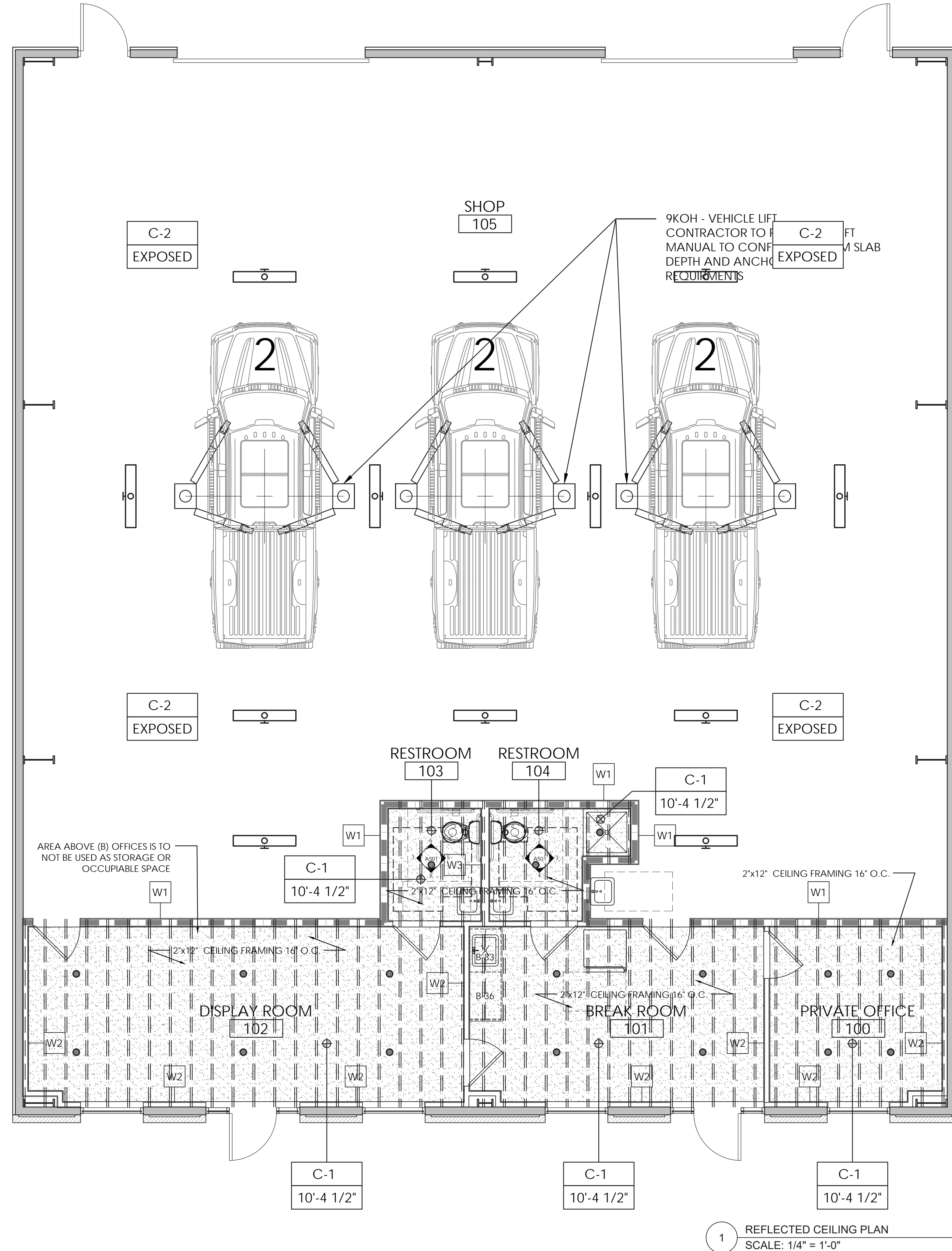
NEW WALL: UL U305
5-1/2" WOOD STUDS WITH 5/8" TYPE
"X" GYP ON BOTH SIDES W/
FIBERGLASS BATT INSULATION BUILT
FROM SLAB TO THE BOTTOM OF ROOF
STRUCTURE.



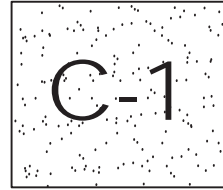
NEW WALL: NEW FRAMING BY GC.
3-1/2" WOOD STUDS WITH 5/8" GYP
ON BOTH SIDES BUILT TO BOTTOM
SIDE OF CEILING FRAMING



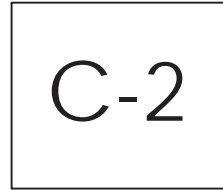
NEW WALL: NEW FRAMING BY GC.
5-1/2" WOOD STUDS WITH 5/8" GYP
ON BOTH SIDES BUILT TO BOTTOM
SIDE OF CEILING FRAMING



CEILING LEGEND:



CEILING - INSTALLATION @
10'-4 1/2" A.F.F. UNLESS
OTHERWISE NOTED ON PLAN.
5/8" GYP BOARD MOUNTED
TO WOOD CEILING JOISTS



EXISTING CEILING AND
STRUCTURE LEFT EXPOSED
AND NON-PAINTED

LIGHTING LEGEND:

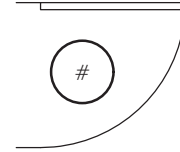


LED CAN LIGHT



LED SHOP LINEAR LIGHT

SYMBOLS LEGEND



DOOR/FRAME LOCATION TYPICAL
4" WALL OFFSET FROM FACE OF
STUD TO DOOR OPENING @ HINGE
SIDE OF DOOR UNLESS OTHERWISE
NOTED - SEE DOOR SCHEDULE



ALIGN FINISH MATERIALS

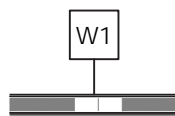


WALL MOUNTED FIRE-EXTINGUISHER
GC TO COORDINATE FINAL
LOCATION IN FIELD W/ FIRE
MARSHALL.

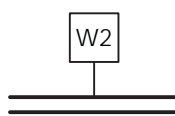
GENERAL NOTES:

1. DIMENSIONS ARE TO FINISH FACE OF STUD, UNLESS NOTED OTHERWISE
2. INTERIOR WALLS ARE DIMENSIONED TO FACE OF STUD UNLESS NOTED OTHERWISE. DRAWINGS DEPICT ACTUAL STUD WIDTH.
3. GC TO COORDINATE FINAL LOCATION OF ELECTRICAL & PHONE OUTLETS WITH OWNER PRIOR TO INSTALLATION.
4. GC TO PROVIDE NECESSARY BLOCKING AND METAL STRAPPING IN WALLS FOR ALL MILLWORK, SHELVING, & EQUIPMENT SUPPLIED BY OWNERS MILLWORK INSTALLER.

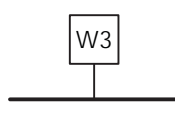
WALL ASSEMBLY LEGEND



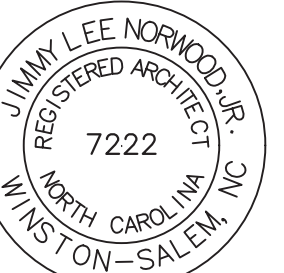
NEW WALL: UL U305
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"X" GYP ON BOTH SIDES W/
FIBERGLASS BATT INSULATION BUILT
FROM SLAB TO THE BOTTOM OF ROOF
STRUCTURE.



NEW WALL: NEW FRAMING BY GC.
3-1/2" WOOD STUDS WITH 5/8" GYP
ON BOTH SIDES BUILT TO BOTTOM
SIDE OF CEILING FRAMING



NEW WALL: NEW FRAMING BY GC.
5-1/2" WOOD STUDS WITH 5/8" GYP
ON BOTH SIDES BUILT TO BOTTOM
SIDE OF CEILING FRAMING



DocuSigned by:
Jimmy L Norwood Jr



5/5/2025

TEENANI HIT UP FOR:

CELTIC CRAWLERS OFF ROAD GARAGE

214 FISH DRIVE
ANGIER, NC 27504

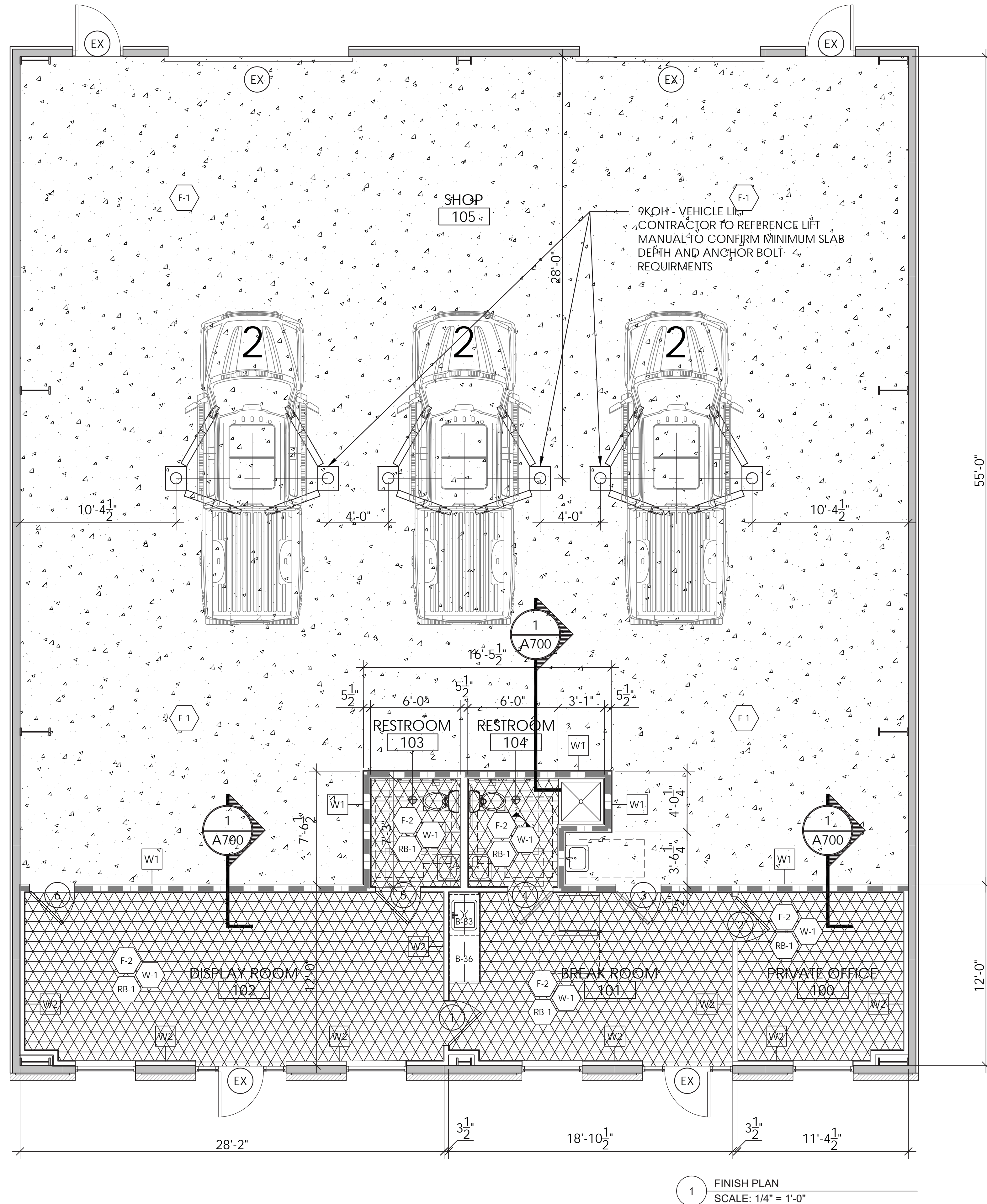
PROJECT NUMBER
225100

DATE
MARCH 4, 2025

REVISIONS

FINISH PLAN & SCHEDULE

A500



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FINISH NOTES:

1. GENERAL CONTRACTOR TO PROVIDE ACTUAL FINISH SAMPLES OF ALL PRODUCTS TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING ANY MATERIALS.
2. DEFAULT WALL FINISH TO BE W1 UNLESS NOTED OTHERWISE
3. PROVIDE A 1 / 8" SCHLUTER-SCHIENE AE STRIP WITH STAIN ANODIZED FINISH AT ALL FLOOR MATERIAL TRANSITIONS

WALL FINISH LEGEND:

W1

PRODUCT: WALL PAINT
MANUF.: SHERWIN WILLIAMS
COLOR: DRIFT OF MIST SW-9166
EGGSHELL


DR1

PRODUCT: DOOR AND FRAME PAINT
MANUF.: SHERWIN WILLIAMS
COLOR: DRIFT OF MIST SW-9166
EGGSHELL


FLOOR FINISH LEGEND:

PRODUCT: SEALED CONCRETE

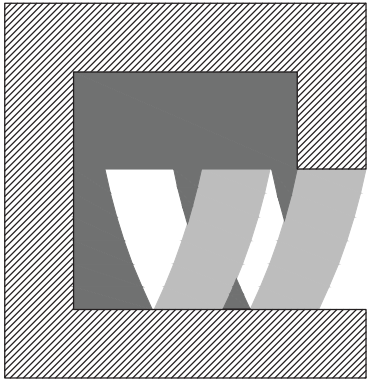
EXISTING SLAB TO BE
PREPPED AND
CLEANED FOR
TENANT



PRODUCT: VINYL COMPOSITE TILE
MANUF.: ARMSTRONG
COLOR: SMOKEY BROWN 51868
SIZE: 12"x12"

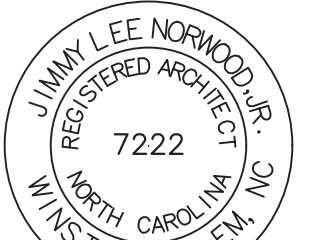


PRODUCT: RUBBER BASE
MANUF.: TBD
COLOR: BLACK
SIZE: 4"
SUPPLIER
CONTACT:



**WILKINSON
DESIGN PLLC**

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www.wdesignus.com



Designed by:
Jimmy L. Lee



TOILET ACCESSORIES:

TA-01 - FRAMELESS MIRROR	PLATE GLASS MIRROR
TA-02 - CHANNEL FRAMED MIRROR	ASI-0620 24" x 36"
TA-03 - SOAP DISPENSER	ASI-0390
TA-04 - TWO PIECE ADA VINYL SHOWER	AQUATIC ACRYLX #727149390839
TA-05 - SURFACE MOUNED SEAT COVER DISPENSER	ASI-0477-SM
TA-06 - SURFACE MOUNTED TOILET TISSUE DISPENSER	ASI-0030
TA-07 - SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	ASI-0473-A

TA-18	GRAB BAR
	18" VERTICAL
TA-36	GRAB BAR
	36" HORIZONTAL
TA-42	GRAB BAR
	42" HORIZONTAL

*NOTE: GC MUST SUBMIT PRODUCT DATA/CUTSHEETS TO ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.
*NOTE: ALL DIMENSIONS TAKEN FROM FINISH FACE OF SHEET ROCK.
*NOTE: ENLARGED TOILET ROOM AREA PLAN SHOWN FOR IDENTIFICATION OF TOILET ACCESSORIES AND PLAN CLEARANCES ONLY. REFER TO FLOOR PLANS FOR ADDITIONAL DIMENSIONS.
*NOTE: BASIS OF DESIGN IS AMERICAN SPECIALTIES, INC.

FINISH NOTES:

- GENERAL CONTRACTOR TO PROVIDE ACTUAL FINISH SAMPLES OF ALL PRODUCTS TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING ANY MATERIALS.
- DEFAULT WALL FINISH TO BE W1 UNLESS NOTED OTHERWISE
- PROVIDE A 1 / 8" SCHLUTER-SCHIENE AE STRIP WITH STAIN ANODIZED FINISH AT ALL FLOOR MATERIAL TRANSITIONS

WALL FINISH LEGEND:

W1	PRODUCT:	WALL PAINT
	MANUF.:	SHERWIN WILLIAMS
	COLOR:	DRIFT OF MIST SW-9166 EGGSHELL

DR1	PRODUCT:	DOOR AND FRAME PAINT
	MANUF.:	SHERWIN WILLIAMS
	COLOR:	DRIFT OF MIST SW-9166 EGGSHELL

FLOOR FINISH LEGEND:

F1	PRODUCT:	SEALED CONCRETE
		EXISTING SLAB TO BE PREPPED AND CLEANED FOR TENANT

F2	PRODUCT:	VINYL COMPOSITE TILE
	MANUF.:	ARMSTRONG
	COLOR:	SMOKEY BROWN 51868
	SIZE:	12"x12"

RB1	PRODUCT:	RUBBER BASE
	MANUF.:	TBD
	COLOR:	BLACK
	SIZE:	4"
	SUPPLIER	
	CONTACT:	

TENANT FIT UP FOR:

**CELTIC CRAWLERS OFF
ROAD GARAGE**

214 FISH DRIVE
ANGIER, NC 27504

PROJECT NUMBER
225100

DATE
MARCH 4, 2025

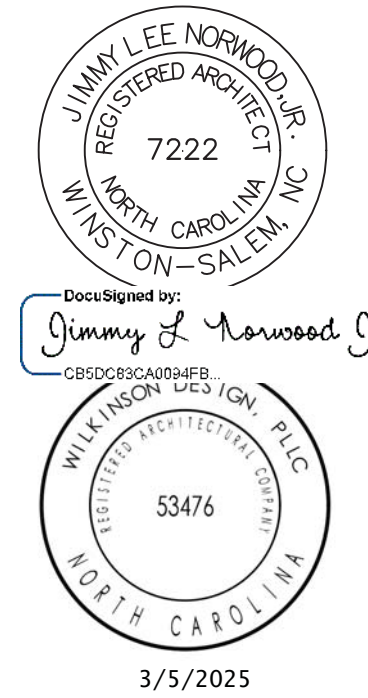
REVISIONS

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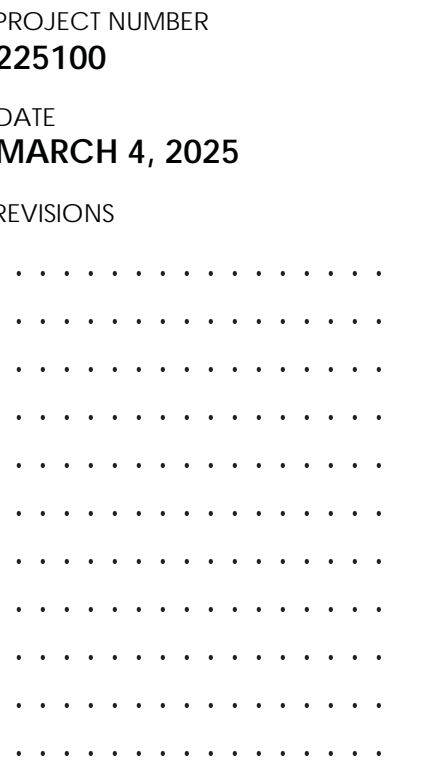
**FINISH
PLAN &
SCHEDULE**

A501

1

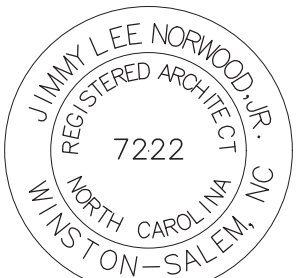


TENANT! HI UP FOR:
CELTIC CRAWLERS OFF
ROAD GARAGE
 2114 FISH DRIVE
 ANGIER, NC 27504



1

A600



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Jimmy L Norwood Jr.



TENANT HI UP FOR:
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ROAD GARAGE
 214 FISH DRIVE
 ANGIER, NC 27504

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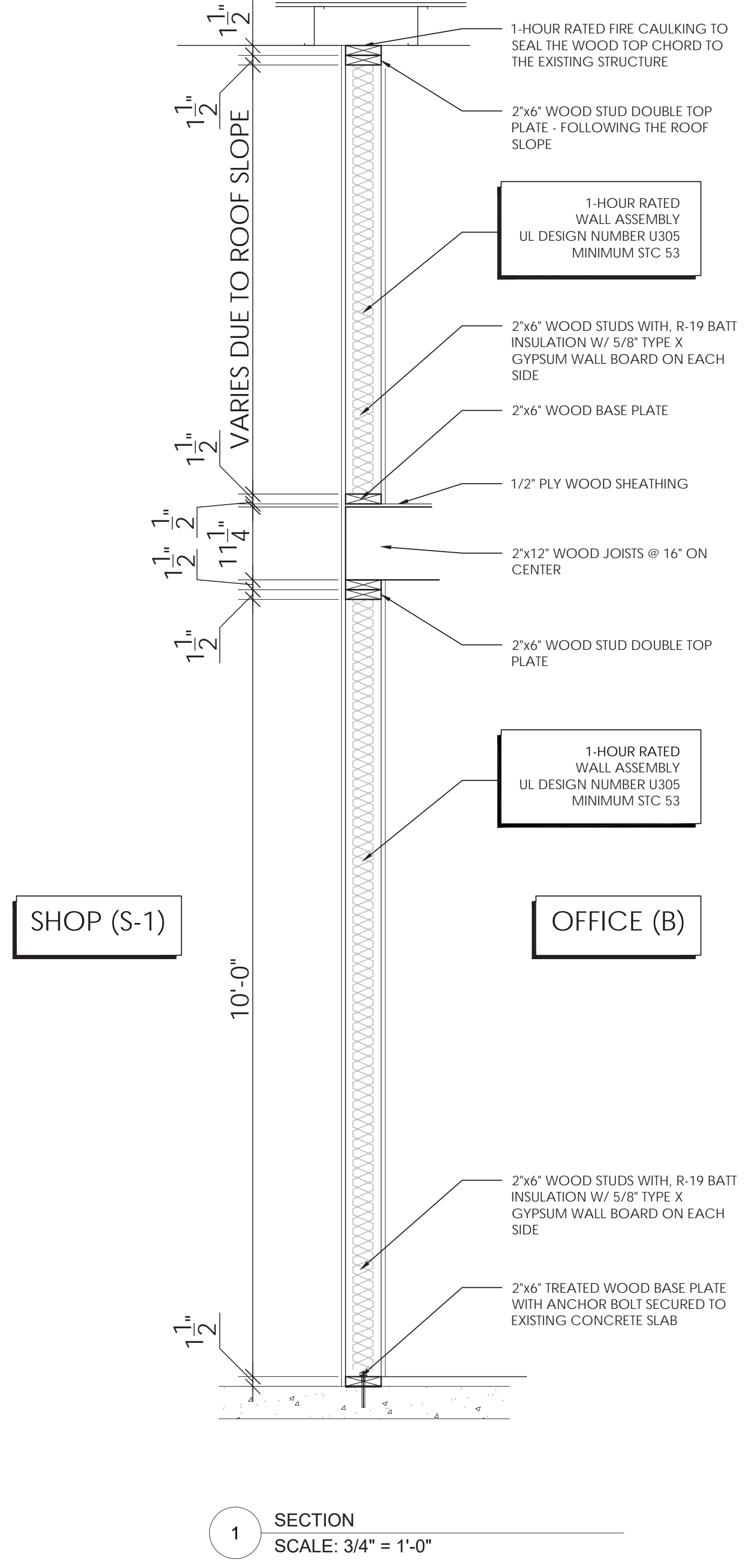
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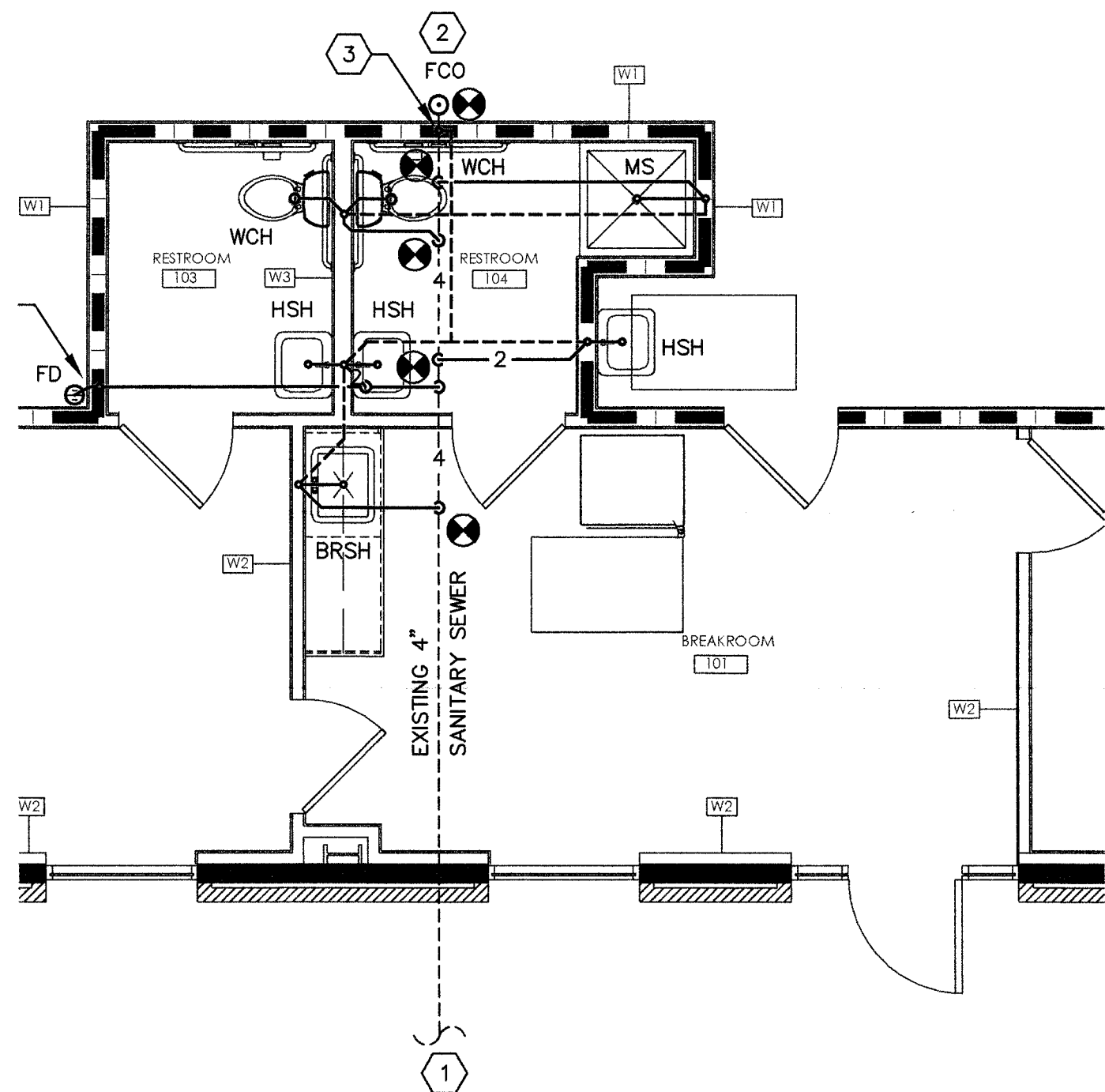
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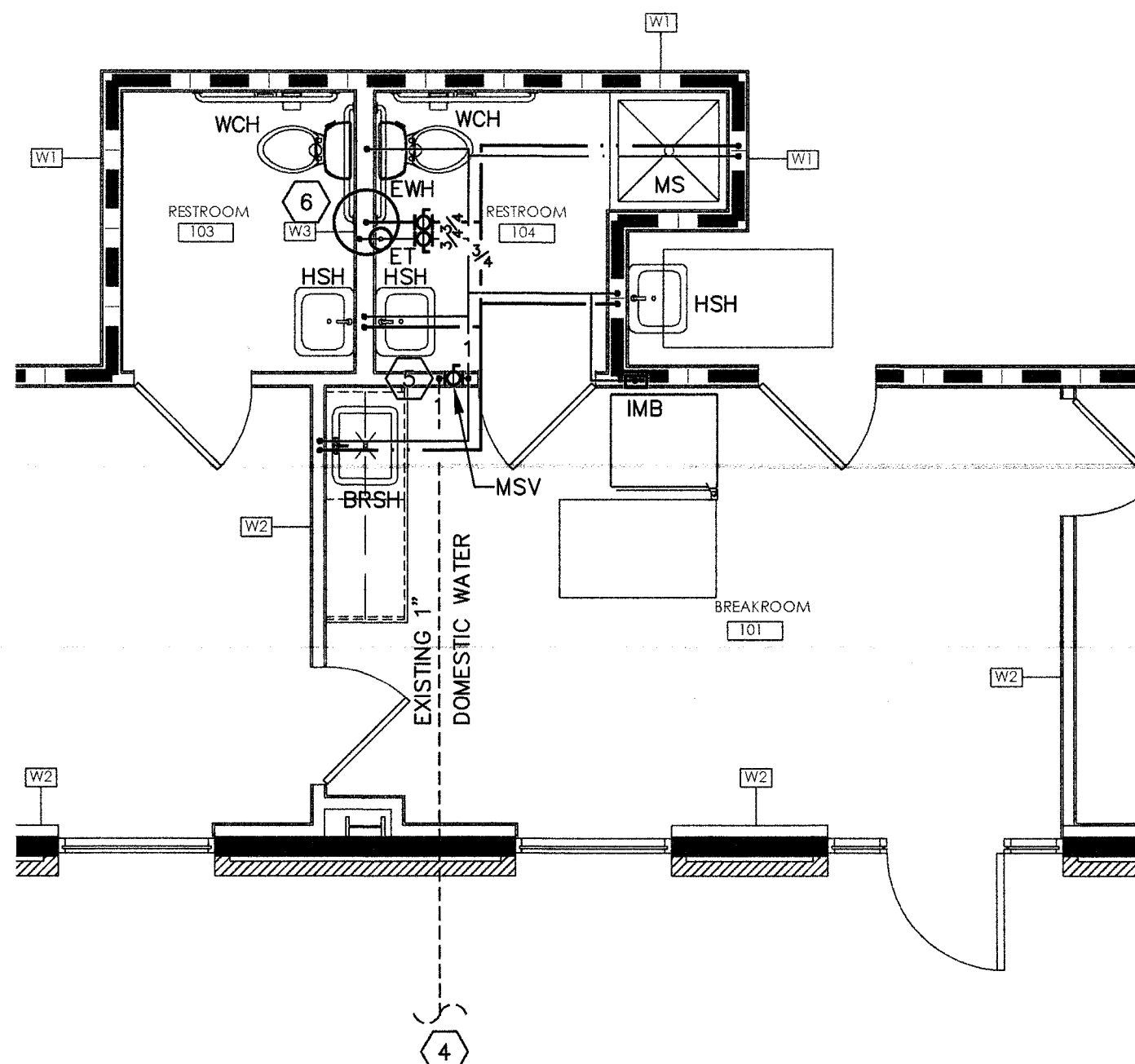
SECTIONS

A700





1 FLOOR PLAN - WASTE AND VENT
P1 1/4" = 1'-0"



2 FLOOR PLAN - DOMESTIC WATER
P1 1/4" = 1'-0"

WALL ASSEMBLY LEGEND	
	NEW WALL: UL-1305 5-1/2" WOOD STUDS WITH 5/8" TYPE "X" GYP ON BOTH SIDES W/ FIBERGLASS BATT INSULATION BUILT FROM SLAB TO THE BOTTOM OF ROOF STRUCTURE.
	NEW WALL: NEW FRAMING BY GC. 3-1/2" WOOD STUDS WITH 5/8" GYP ON BOTH SIDES BUILT TO BOTTOM SIDE OF CEILING FRAMING
	NEW WALL: NEW FRAMING BY GC. 3-1/2" WOOD STUDS WITH 5/8" GYP ON BOTH SIDES BUILT TO BOTTOM SIDE OF CEILING FRAMING

PLUMBING LEGEND	
-----	NEW VENT PIPING
=====	NEW SANITARY SEWER PIPING
- - - - -	EXISTING WASTE PIPING
=====	NEW COLD WATER PIPING
=====	NEW HOT WATER PIPING
- - - - -	EXISTING WATER PIPING
	BALL VALVE
	FLOOR CLEANOUT
	KEY NOTE NUMBER
	CONNECT TO EXISTING PIPING
	EXISTING
	BACKFLOW PREVENTER
	MAIN SHUTOFF VALVE
	ADA HAND SINK
	ADA WATER CLOSET
	MOP SINK
	FLOOR DRAIN
	ELECTRIC WATER HEATER
	ADA BREAKROOM SINK
	EXPANSION TANK

NOTE TO SUBCONTRACTOR

IN COOPERATION WITH THE TENANT, PREPARE PLUMBING SUBMITTALS FOR EQUIPMENT, FIXTURES, FAUCETS, AND PIPING. SUBMIT TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.

HSH	ADA WALL-HUNG HAND SINK W/SINGLE CONTROL FAUCET
WCH	ADA FLOOR-MTD TANK WATER CLOSET W/OPEN SEAT
MS	FLOOR-MTD MOP SINK W/FAUCET, HOSE CONNECTION, AND BUCKET HOOK
BRSH	ADA DROP-IN SELF-RIMMING STAINLESS SINK WITH SINGLE CONTROL AND STRAINER
IMB	FIRE-RATED ICE MAKER BOX IN WALL
EWH	50-GALLON "LOW BOY" ELECTRIC WATER HEATER W/DRAIN PAN 240V/4.5 KW ELECTRIC, UEF=92
ET	NOMINAL 3-GALLON EXPANSION TANK

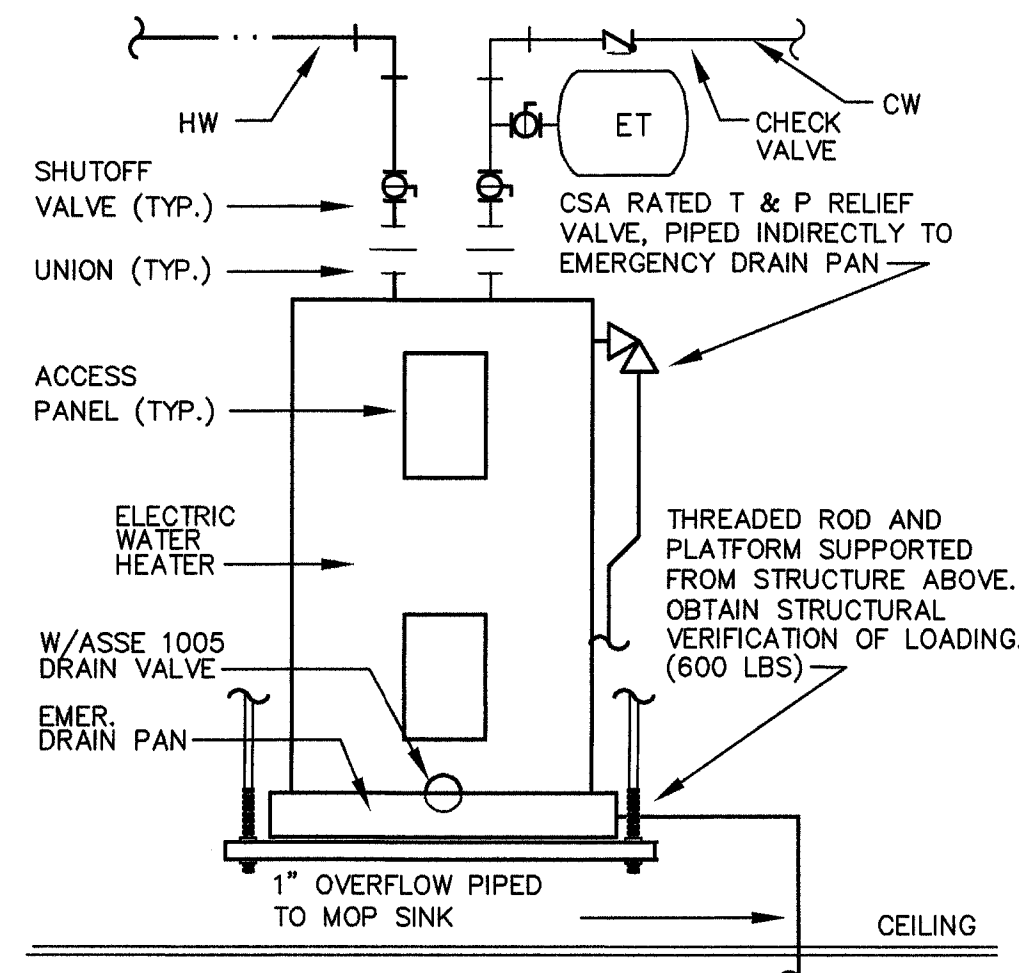
PROVIDE P-TRAPS AND WATER SUPPLY STOPS
PROVIDE TEMPERING VALVES (90F) FOR ALL SINKS
PROVIDE TRAP PRIMER ON HUB DRAIN
1/2" WATER CONNECTIONS SERVING FIXTURES
3/4" WATER CONNECTIONS SERVING EWH

NOTES KEYED TO PLAN

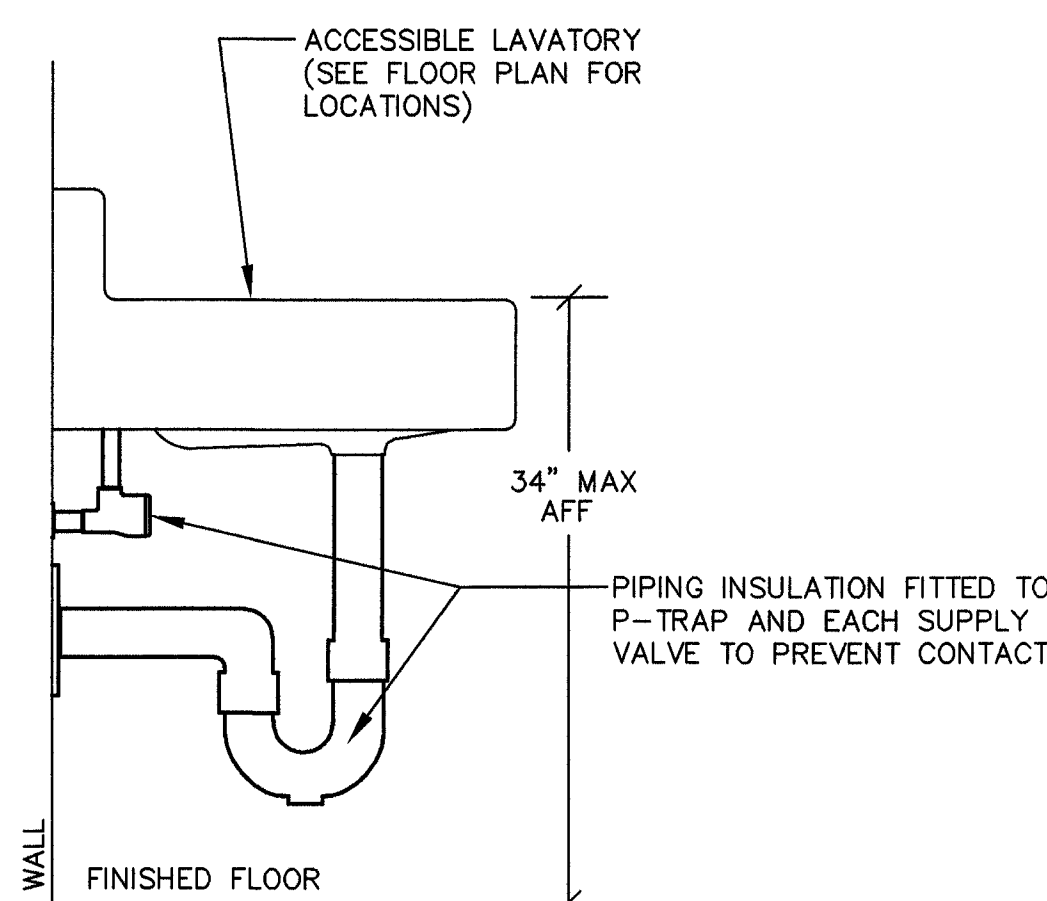
- EXISTING 4" INCOMING MAIN SANITARY SEWER STUBBED UP IN THE SPACE. VERIFY EXACT LOCATION IN THE FIELD.
- EXTEND AS NECESSARY THE INCOMING SANITARY SEWER PIPING TO MISS THE PROPOSED NEW WALL. INSTALL FLOOR CLEANOUT ON PIPING.
- PROVIDE 3" MAIN VENT PIPING AND ROUTE THROUGH ROOF. SEAL ROOF PENETRATION WATER-TIGHT. SEAL ANY RATED WALL PENETRATION WITH 2-HR HILTI PRODUCT LISTED FOR PVC PIPING.
- EXISTING 1" INCOMING MAIN DOMESTIC WATER PIPING FROM RPZ AND HOT BOX ON SITE AND STUBBED UP IN THE SPACE. VERIFY EXACT LOCATION IN THE FIELD.
- INTERCEPT INCOMING 1" DOMESTIC WATER PIPING AND TURN UP INTO VALVE BOX IN WALL. PROVIDE FOR MAIN SHUTOFF VALVE AND TURN PIPING UP INSIDE WALL TO CEILING CAVITY FOR CONTINUATION TO FIXTURES.
- LOCATE EWH AND ET ABOVE CEILING BUT ACCESSIBLE FROM THE TOILET AREA. PROVIDE DRAIN PAN, EXPANSION TANK, HOT AND COLD ISOLATION SHUTOFF VALVES, AND CHECK VALVE. PROVIDE 1" DRAINAGE PIPING FROM DRAIN PAN TO HUB DRAIN IN SHOP FOR INDIRECT DISCHARGE. SEAL ANY RATED WALL PENETRATION WITH 2-HR HILTI PRODUCT LISTED FOR PVC PIPING.
- HUB DRAIN FOR AHU AND EWH. PROVIDE 2" VTR.

RATED WALL LEGEND

--- EXISTING 1-HR RATED WALL



3 WATER HEATER ABOVE CEILING
P1 NOT TO SCALE



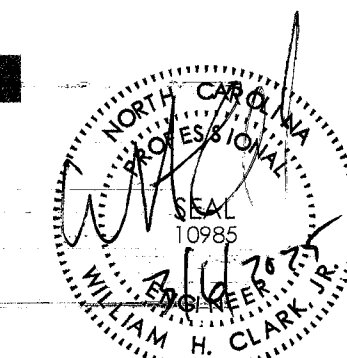
4 ACCESSIBLE SINK
P1 NO SCALE

PLUMBING NOTES:

- PROVIDE AS NECESSARY ALL WORK, COORDINATION AMONG TRADES, EQUIPMENT, FIXTURES, DEVICES, MATERIALS, AND LABOR FOR THE INSTALLATION OF THE PLUMBING WORK AS SHOWN OR IMPLIED BY THESE PLANS.
- ALL WORK AND MATERIALS SHALL COMPLY WITH APPROVED, APPLICABLE STATE, LOCAL, AND NATIONAL CODES INCLUDING THE 2018 NC PLUMBING CODE AND THE NC STATE BUILDING CODE.
- REVIEW THE CONTRACT DOCUMENTS OF OTHER TRADES AND ACTUAL FIELD CONDITIONS TO AVOID CONFLICTS AND INTERFERENCES.
- RESOLVE ALL CONFLICTS PRIOR TO INCURRING ANY MATERIAL OR LABOR EXPENSES. ADVISE THE ENGINEER OF ANY UNRESOLVED CONFLICTS AND INTERFERENCES, AND OBTAIN A RESOLUTION BEFORE PROCEEDING.
- PREPLAN ALL WORK PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY PART OF THE WORK DESCRIBED BY THIS DRAWING.
- VERIFY PLUMBING FIXTURES TO BE INSTALLED AGAINST THE ARCHITECT'S ROOM FINISHES AND RESOLVE ALL CONFLICTS AND CLEARANCE ISSUES BEFORE ORDERING FIXTURES.
- COORDINATE WITH GENERAL TRADE TO ENSURE THAT ACCESSIBLE FIXTURE PLACEMENTS COMPLY WITH THE ADA AND ACCESSIBLE PROVISIONS OF THE CODE. INSTALL ACCESSIBLE SINKS AND LAVATORIES NO HIGHER THAN 34" AFF. ALL ACCESSIBLE SINK DEPTHS SHALL NOT EXCEED 6". INSTALL HANDLES ON WATER CLOSETS SO THAT THE HANDLE IS ON THE WIDE SIDE OF THE ROOM OR STALL. CONTRACTOR SHALL CONFIRM IN FIELD.
- IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING FIELD CONDITIONS OR THE WORK OF OTHER TRADES.
- PROVIDE ONLY NEW PRODUCTS, DEVICES, AND MATERIALS LISTED AND LABELED (FOR THE USE INTENDED) BY AN APPROVED THIRD PARTY LABORATORY SERVICE SUCH AS UNDERWRITER'S LABORATORIES, INC. SEE DEMOLITION NOTES FOR REUSE OF EXISTING EQUIPMENT, DEVICE, AND CABLING.
- PROVIDE ALL CUTTING AND PATCHING. RESTORE CUT AREAS TO PRE- CONSTRUCTION CONDITIONS.
- LOCATE ALL WORK GENERALLY AS SHOWN ON THIS DRAWING; HOWEVER, COORDINATE FIXTURE AND DEVICE LOCATIONS WITH ACTUAL FIELD CONDITIONS.
- COMPLY WITH THE MANUFACTURER'S TECHNICAL INSTRUCTIONS WHEN INSTALLING EQUIPMENT, FIXTURES, FAUCETS, VALVES, PIPING, AND PLUMBING MATERIALS. PROVIDE ALL APPURTENANCES NECESSARY FOR A PROPER INSTALLATION.
- COORDINATE ROUTING OF ALL PIPING WITH BUILDING STRUCTURE AND WITH THE WORK OF OTHER TRADES. INSTALL PIPING SO AS TO PREVENT STRAINS AND STRESSES THAT WOULD BREAK PIPING OR CHANGE SLOPE. SUPPORT PIPING PASSING THROUGH OR UNDER WALLS AS NECESSARY TO PREVENT BREAKAGE. OFFSET VENT PIPING AROUND BEAMS AND JOISTS AS NECESSARY.
- FOR HORIZONTAL WASTE PIPING, INSTALL 2 1/2" OR SMALLER PIPING WITH A SLOPE OF 1/8" PER LINEAR FOOT OR MORE. INSTALL 3" OR LARGER PIPING WITH A SLOPE OF 1/8" PER LINEAR FOOT OR MORE.
- COORDINATE WITH GENERAL AND MECHANICAL TRADES TO LOCATE ALL VENTS THROUGH THE ROOF AT LEAST 10' - 0" AWAY FROM ANY HVAC AIR INTAKES.
- MINIMIZE ALL ROOF PENETRATIONS. ALL JOINTS AT THE ROOF AROUND VENT PIPES SHALL BE MADE WATER TIGHT BY USE OF APPROVED FLASHINGS AND FLASHING MATERIALS THAT CONFORM TO THE ROOF INSTALLER'S REQUIREMENTS. EXTERIOR WALL OPENINGS SHALL BE MADE WATER TIGHT.
- PROVIDE SHUTOFF BALL VALVES FOR EVERY BRANCH WATER LINE. COORDINATE WITH THE GENERAL CONTRACTOR FOR ACCESS PANELS IN GYP. BOARD CEILINGS.
- WHEN METALLIC PIPING IS INSTALLED FOR DOMESTIC WATER DISTRIBUTION, PROVIDE WATER HAMMER ARRESTORS AT THE END OF EACH COLD AND HOT WATER BRANCH RISER. SIZE ARRESTORS APPROPRIATELY.
- THE BASIS-OF-DESIGN FOR SANITARY SEWER AND VENT PIPING IS PVC AND ABS PRODUCTS. PROVIDE SCHEDULE 40 SOLID WALL PIPING AND FITTINGS CONFORMING TO ASTM D2665. WHEN MAKING JOINTS, FOLLOW THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS INCLUDE USE OF PURPLE PRIMER CONFORMING TO ASTM F656 FOLLOWED BY NON-PURPLE SOLVENT CEMENT CONFORMING TO ASTM D2564.
- PROVIDE 3" SANITARY SEWER PIPING AND 2" VENT PIPING SIZES UNLESS OTHERWISE NOTED ON THE PIPING PLAN.
- THE BASIS-OF-DESIGN FOR DOMESTIC WATER DISTRIBUTION PIPING IS C-PVC PIPING AND APPROVED FITTINGS CONFORMING TO THE STANDARDS LISTED IN TABLES 605.4 AND 605.5.
- PROVIDE 1" MAIN AND 3/4" DISTRIBUTION PIPING SIZES UNLESS OTHERWISE SHOWN ON THE PIPING PLAN.
- THE BASIS-OF-DESIGN FOR DOMESTIC WATER BRANCH PIPING IS PEX TUBING AND APPROVED METAL FITTINGS CONFORMING TO THE STANDARDS LISTED IN TABLES 605.4 AND 605.5.
- FURNISH AND INSTALL ANY MISCELLANEOUS METAL SUPPORTS, FASTENERS, MOUNTS, HANGERS, SIDE BRACES, ETC., WHICH MAY BE REQUIRED TO SECURELY ANCHOR AND SUPPORT PLUMBING EQUIPMENT, FIXTURES, AND PIPING MATERIALS.
- SEE ARCHITECTURAL COVERSHEET FOR MINIMUM FACILITIES CALCULATION.



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whcPE
WILLIAM H. CLARK, JR., PE
1441 E. BROAD ST., STE 323
FLOQUAT-VARINA, NC 27526

TENANT FIT UP FOR:
CELTIC CRAWLERS OFF
ROAD GARAGE
214 FISH DRIVE
ANGIER, NC 27504

PROJECT NUMBER
225100

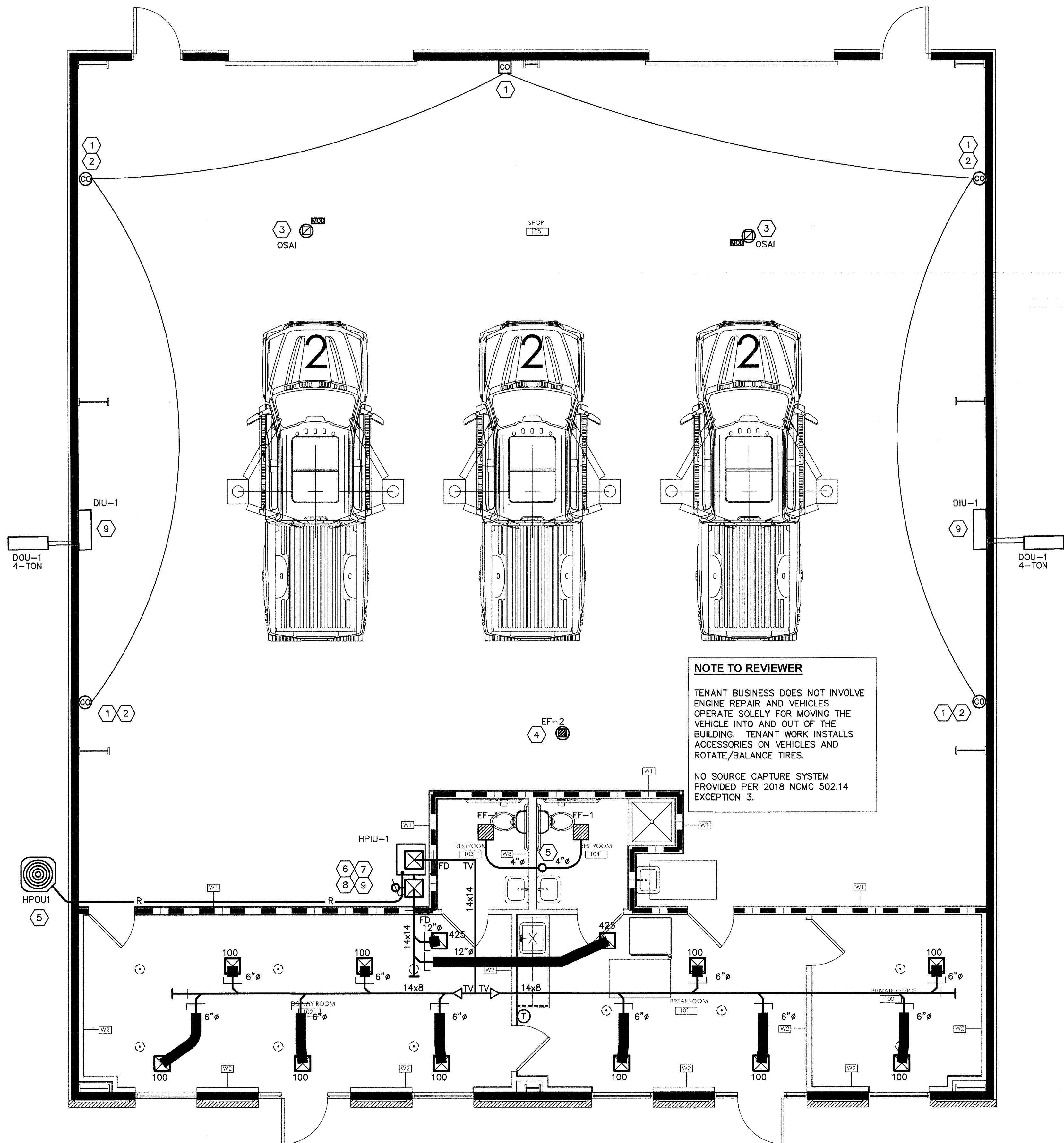
DATE
MARCH 4, 2025

REVISIONS

PME_2519
WHC WHC

FLOOR PLAN -
PLUMBING

P1



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

WALL ASSEMBLY LEGEND

- W1 NEW WALL: UL L2005
5-1/2" WOOD STUDS WITH 5/8" TYPE
"X" GYP ON BOTH SIDES W/
FIBERGLASS BATT INSULATION BUILT
FROM SLAB TO THE BOTTOM OF ROOF
STRUCTURE.
- W2 NEW WALL: NEW FRAMING BY GC.
3-1/2" WOOD STUDS WITH 5/8" GYP
ON BOTH SIDES BUILT TO BOTTOM
SIDE OF CEILING FRAMING.
- W3 NEW WALL: NEW FRAMING BY GC.
5-1/2" WOOD STUDS WITH 5/8" GYP
ON BOTH SIDES BUILT TO BOTTOM
SIDE OF CEILING FRAMING.

NOTES KEYED TO PLAN

- 1 PROVIDE CONTROL PANEL FOR 120V CO/NO2 SENSOR SYSTEM TO CONTROL OF THE EXHAUST FAN AND OUTSIDE AIR INTAKES TO VENTILATE THE SPACE WHEN DETECTING HIGH CO GAS CONCENTRATIONS. REQUIRED VENTILATION = 0.75 CFM/SF = 2350 CFM. PROVIDED VENTILATION 2425 CFM EXHAUST.
- 2 MOUNT SENSOR AT 46" AFF. PROVIDE THE ELECTRICAL TRADE WITH THE INFORMATION NECESSARY FOR THAT TRADE TO INTERLOCK THE OUTSIDE AIR INTAKES AND EXHAUST FAN WITH THE CO MONITORING SYSTEM.
- 3 COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR TO INSTALL GRAVITY VENTILATOR FOR MAKEUP AIR FOR THE REQUIRED VENTILATION BY EF-2. PROVIDE 18x18 NECK, MOTORIZED DAMPER, AND SCREENING. INTERCONNECT DAMPER TO EXHAUST FAN EF-2 TO OPEN WHEN OPERATING.
- 4 COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR TO INSTALL ROOF-MTD EXHAUST FAN EF-2. THIS FAN PROVIDES FOR REQUIRED VENTILATION BY EF-2. PROVIDE CONTROLS FOR INTERCONNECTING CO/N2 MONITORING SYSTEM AND MAKEUP AIR INTAKE DAMPERS.
- 5 ROUTE EXHAUST DUCTS TO VERTICAL DUCT RISER AND TERMINATE IN DISCHARGE CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN ON ROOF. MAINTAIN MINIMUM 10' DISTANCE FROM ALL AIR INTAKES. FAN OPERATED BY SWITCH.
- 6 OUTSIDE AIR DUCT FROM ROOF INTAKE TO RETURN AIR DUCT. PROVIDE BALANCING DAMPER AND SET FOR 150 CFM.
- 7 ROUTE CONDENSATE PIPING FROM AIR HANDLER TO HUB DRAIN.
- 8 ROUTE REFRIGERANT LINES ON WALL APPROXIMATELY 7'-6" AFF. AND DIRECTLY TO THE EXTERIOR. PENETRATE WALL AND DROP DOWN TO HPOU. INSULATE ALL REFRIGERANT WITH 1.5" THICK INSULATION FROM HPIU-1 TO HPOU-1.
- 9 MOUNT INDOOR UNIT 24" AFF.

RATED WALL LEGEND



EQUIPMENT SPECIFICATIONS

HPIU-1: GOODMAN AMST30CP13*/HKTSN601*, R-32 COIL, MULTI-POSITION, MULTI-SPEED, ECM-BASED AIR HANDLER NOMINAL 1,000 CFM @ 0.9 S.P. AT MID-SETTING, 6 kW HEAT STRIP, AND INTERNAL TXV. (MCA/MOCP = 37/40)

HPIU FEATURES AND ACCESSORIES: SINGLE-POINT ELECTRICAL CONNECTION, FRONT ACCESSIBLE FOR SERVICING, FRONT CONTROLS, FILTER RACK, R-32 REFRIGERANT LINE SET AND CONNECTIONS W/1.5" INSULATION, DRAIN PAN, 1" GRAVITY DRAIN PIPE TO EXTERIOR WALL, CONDENSATE P-TRAP W/SHUTOFF SWITCH, AND PROGRAMMABLE THERMOSTAT.

HPOU-1: GOODMAN GLZ4S4BA3010A* R-32 SPLIT SYSTEM OUTDOOR HEAT PUMP, NOMINALLY-RATED WITH HPIU INDOOR UNIT FOR 27.6 MBH TOTAL, 22.1 SENSIBLE, AND 5.5 MBH LATENT, (MCA/MOCP = 15/25)

HPOU FEATURES AND ACCESSORIES: TOP AND SIDE MAINTENANCE ACCESS, HIGH-EFFICIENCY COMPRESSOR, SINGLE-SPEED PSC CONDENSOR FAN MOTOR, FILTER DRIER, SUCTION LINE ACCUMULATOR, COMPRESSOR CRANKCASE HEATER, HIGH-CAPACITY MUFFLER, HIGH- AND LOW-PRESSURE SWITCHES, OUTDOOR LOCKOUT OF SUPPLEMENTARY HEAT STRIPS (35F-40F), AND PAD.

* VERIFY HEAT PUMP EQUIPMENT SELECTIONS AND EXACT MODEL NUMBERS WITH SUPPLIER BASED ON 75F INDOOR DRY BULB, 63F WB, AND 95F OUTDOOR DB.

DIU/DOU-1: DUCTLESS MINI-SPLIT HEAT PUMP SYSTEM W/ 1 INDOOR UNIT, 4-TON, 48 MBH COOLING, 50 MBH HEATING (MCA/MOCP = 27/30). BOD INDOOR UNIT - BLUERIDGE BM48MFCC, OUTDOOR UNIT - BM148UC

EF-1: BROAN HBB0RL CEILING-MOUNTED EXHAUST FAN 80 CFM, 120V/1P

EF-2: TWIN CITIES 150B DCRD ROOFTOP EXHAUSTER, 2425 CFM @ 0.125 ESP. 115V/1P, 1/4 HP W/BACKDRAFT DAMPER, ROOF CURB, CURB HINGE, CHAIN, INSECT SCREEN, AND NEMA 3R DISCONNECT.

OSAI: TWIN CITIES GRV 180B ROOF AIR INTAKE. 1300 CFM @ 0.125 ESP. PROVIDE MOTORIZED DAMPER, ROOF CURB, INSECT SCREEN, AND NEMA 3R DISCONNECT FOR DAMPER.

GENERAL MECHANICAL NOTES:

1. PREPLAN ALL WORK PRIOR TO PURCHASING, ORDERING, OR FABRICATING ANY PART OF THE WORK DESCRIBED ON THESE DRAWINGS.
2. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING FIELD CONDITIONS OR THE WORK OF OTHER TRADES.
3. RESOLVE ALL CONFLICTS PRIOR TO INCURRING ANY MATERIAL OR LABOR EXPENSES.
4. COMPLY WITH THE MANUFACTURER'S TECHNICAL INSTRUCTIONS WHEN INSTALLING MECHANICAL EQUIPMENT, DEVICES, DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, AND OTHER MATERIALS.
5. PROVIDE ALL APPURTENANCES NECESSARY TO PROPERLY INSTALL EQUIPMENT, DEVICES, DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, AND OTHER MATERIALS.
6. VERIFY EACH GRILLE, REGISTER, AND DIFFUSER TO BE INSTALLED AGAINST THE OWNER'S ROOM FINISHES AND RESOLVE ALL CONFLICTS BEFORE ORDERING.
7. LOCATE NEW DEVICES, DUCTWORK, GRILLES, DIFFUSERS, AND OTHER MATERIALS GENERALLY AS SHOWN ON THE PLANS; HOWEVER, COORDINATE LOCATIONS WITH ACTUAL FIELD CONDITIONS TO PRESERVE ALL CODE-REQUIRED AND MANUFACTURER-REQUESTED SERVICE CLEARANCES.
8. COORDINATE THE ROUTING OF ALL NEW DUCTWORK AND PIPING WITH THE BUILDING STRUCTURE AND WITH THE WORK OF OTHER TRADES.
9. ALL DUCTWORK DIMENSIONS ARE GIVEN IN INCHES AND ARE NET CLEAR, INTERIOR DIMENSIONS.
10. ALL NEW DUCTWORK NOT WITHIN THE CONDITIONED SPACE SHALL BE INSULATED WITH R-8.0.
11. PROVIDE AIR TURNING DEVICES AT EACH SUPPLY DUCT ELBOW AND BRANCH TAKE OFF. PROVIDE BALANCING AND SPLITTER DAMPERS AS SHOWN ON THE PLANS AND WHERE NECESSARY FOR SYSTEM BALANCING. ALL TURNING VANES SHALL BE DOUBLE-THICKNESS.
12. PROVIDE PROGRAMMABLE THERMOSTAT CONTROLS FOR PROPER AND SATISFACTORY SYSTEM OPERATION. ALL PORTIONS OF WALL-MOUNTED THERMOSTATS SHALL BE NO HIGHER THAN 46" AFF.
13. PROVIDE OUTSIDE AIR INTAKE HOODS AND EXHAUST AIR DISCHARGE HOODS THAT ARE COMPATIBLE WITH THE EXISTING WALL CONSTRUCTION. PROVIDE INSECT SCREENS AND BACKDRAFT DAMPERS FOR OUTSIDE AIR HOODS AND BACKDRAFT DAMPERS ONLY FOR EXHAUST AIR HOODS. DAMPERS SHALL CLOSE WHEN THE AIR HANDLING UNIT OR EXHAUST FAN IS "OFF".
14. BALANCE HVAC SYSTEMS TO THE CFM QUANTITIES SHOWN ON THESE DRAWINGS. PROVIDE A CONTRACTOR-GENERATED REPORT OF FINAL UNIT SETTINGS AND AIRFLOW VALUES. ALTERNATIVELY, THE CONTRACTOR CAN COORDINATE WITNESSING BY THE ENGINEER-OF-RECORD.
15. UPON COMPLETION OF THE PROJECT, TEST AND VERIFY ALL EQUIPMENT AS OPERATING SATISFACTORILY.

APPENDIX B

2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN
MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE
SYSTEMS, AND EQUIPMENT

Thermal Zone 4A

Winter Dry Bulb: 16F
Summer Dry Bulb: 92F

Interior Design Conditions

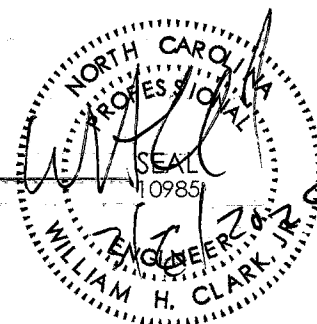
Winter Dry Bulb: 72F
Summer Dry Bulb: 75F
Relative Humidity: 50%

Building Heating Load: 42.4 MBH
Building Cooling Load: 83.8 MBH

Mechanical Space Conditioning System:
See Equipment Descriptions



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TENANT FIT UP FOR:
CELTIC CRAWLERS OFF
ROAD GARAGE
1441 E. BROAD ST., STE 323
FUQUAY-VARINA, NC 27526
ANGIER, NC 27504

PROJECT NUMBER
225100

DATE
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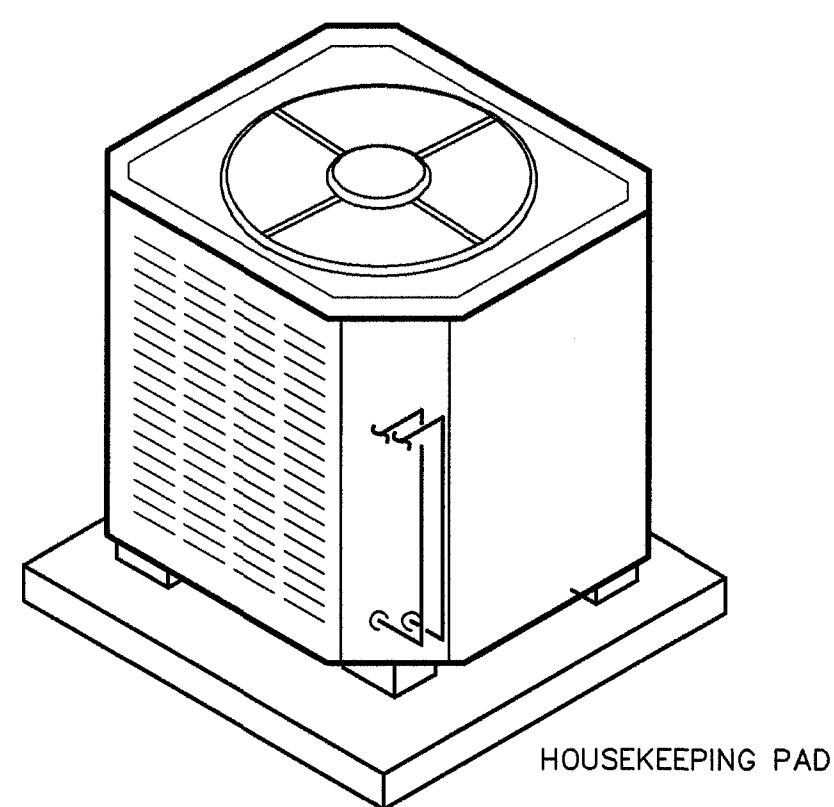
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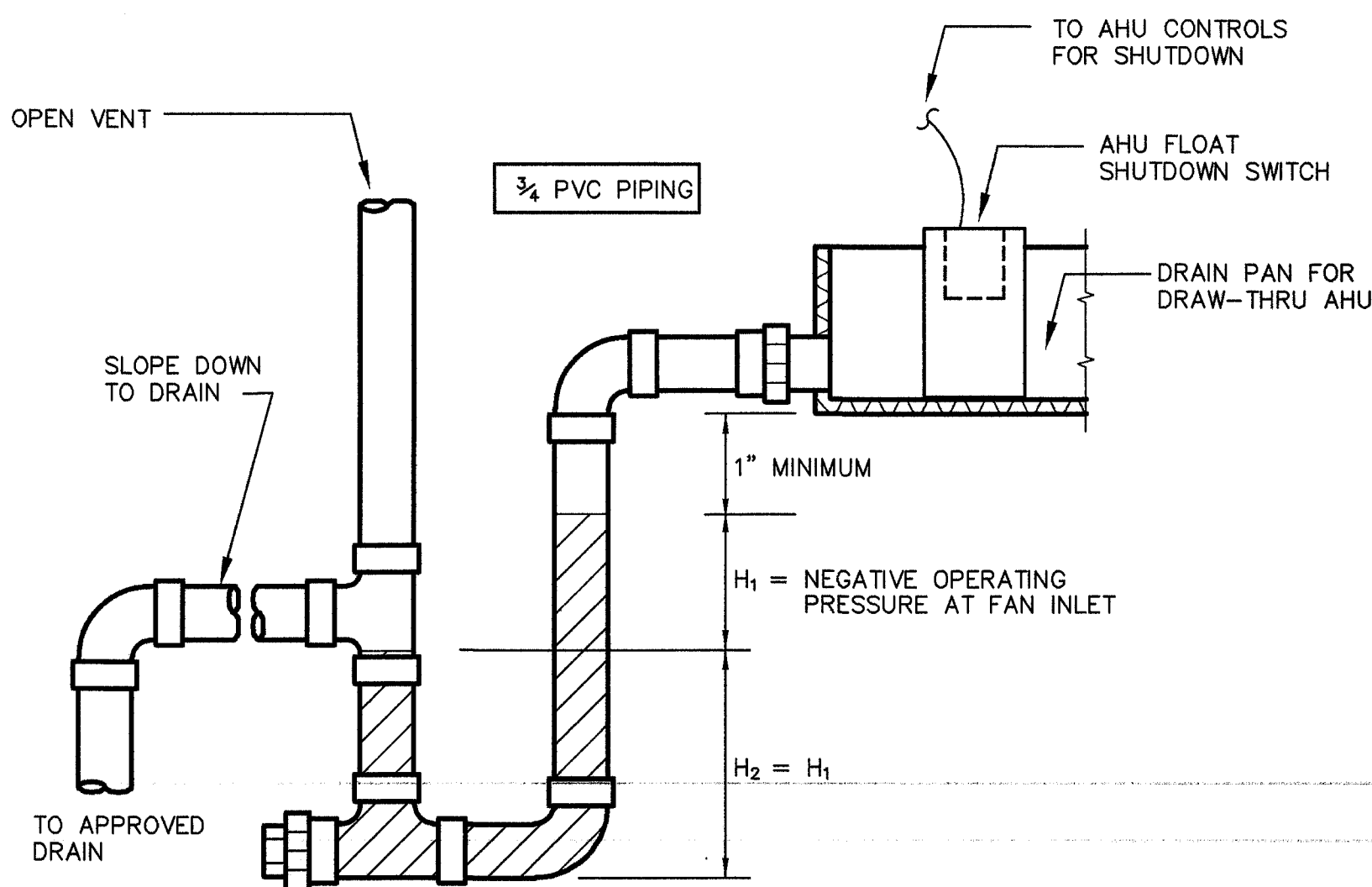
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FLOOR PLAN -
HVAC

M1



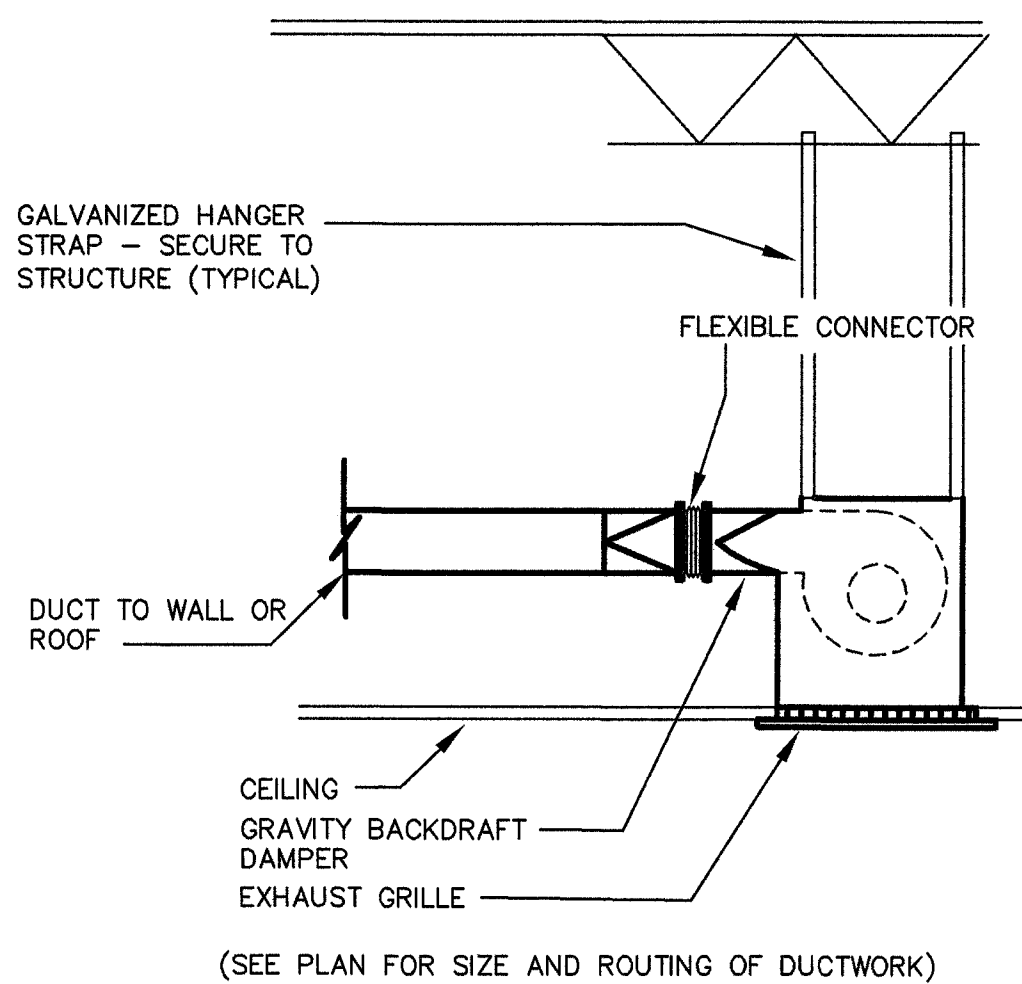
1 TYPICAL OUTDOOR HEAT PUMP
M2 NOT TO SCALE:



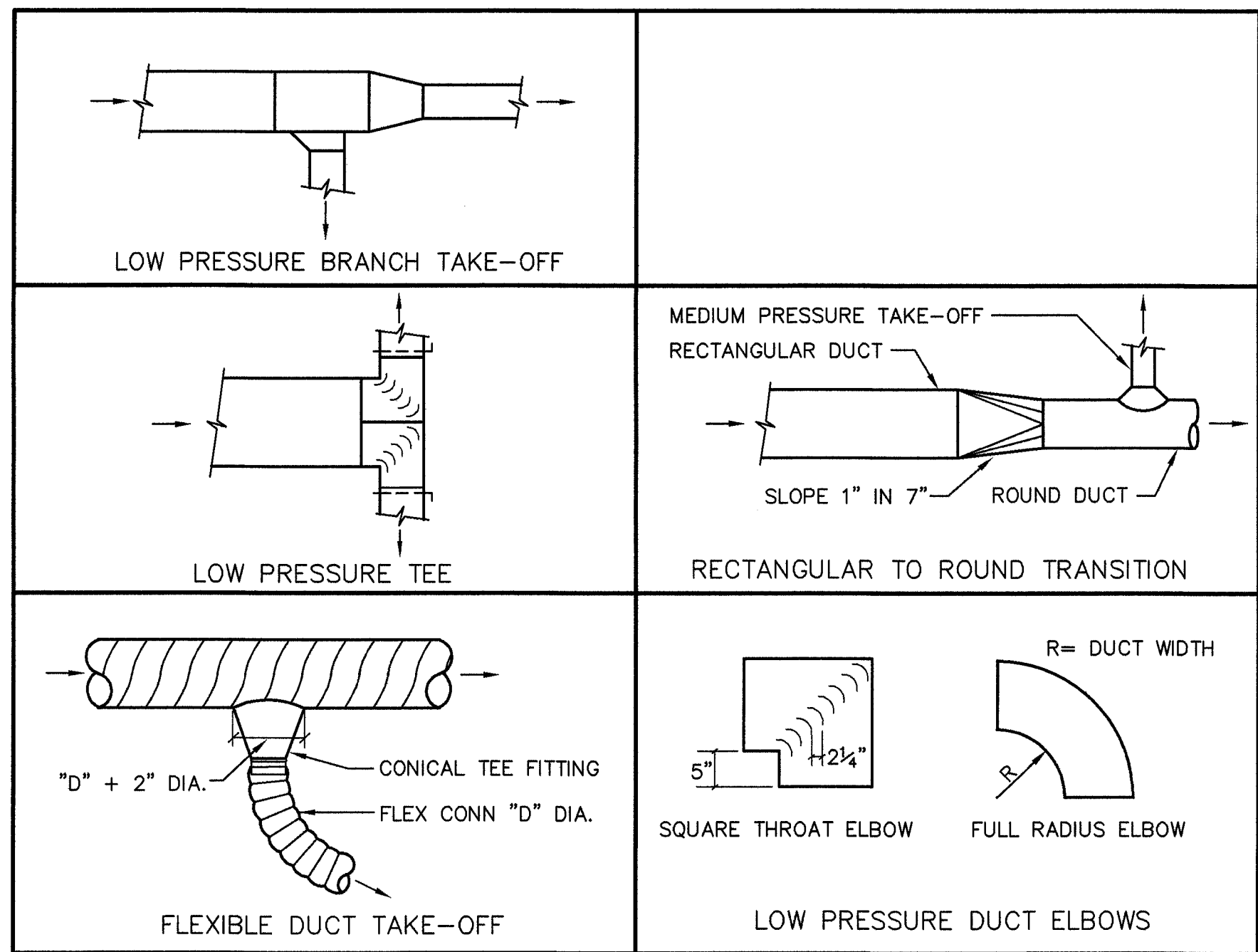
H ₁ PIPE DISTANCE	
MIN. PIPE SIZE	MAX. COIL LOAD (TONS)
3/4"	2
1"	5
1 1/4"	30

PITCH HORIZONTAL DRAIN LINE 1" IN 10 FEET

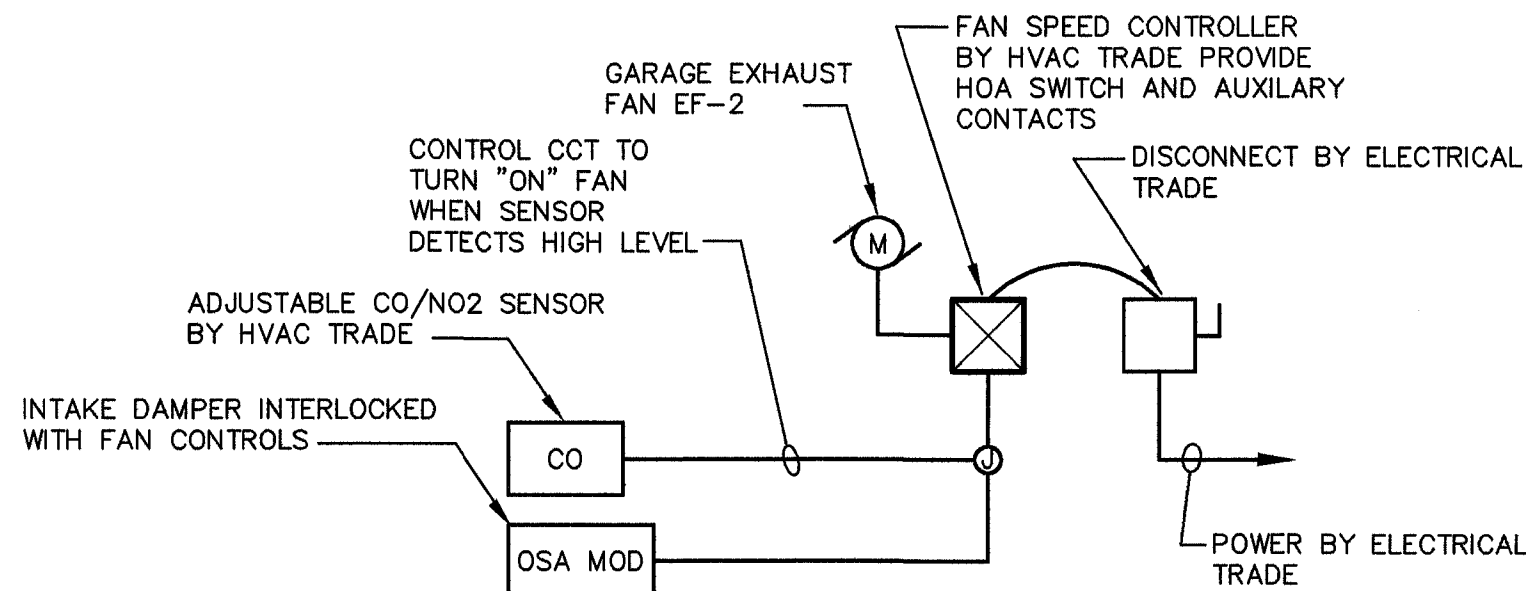
2 CONDENSATE PIPING - DRAW THRU AHU
M2 NO SCALE



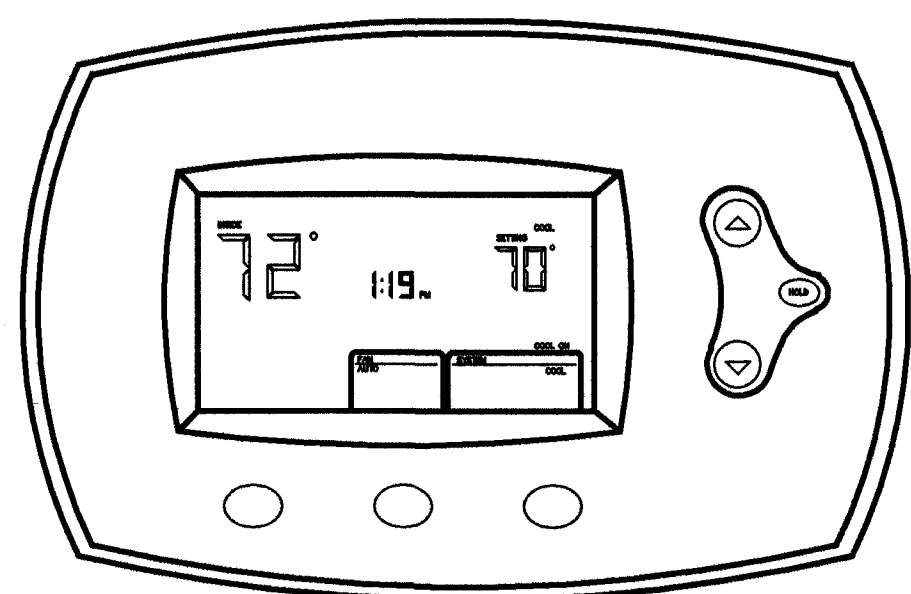
5 CEILING EXHAUST FAN
M2 NO SCALE



6 DUCT FITTINGS
M2 NO SCALE

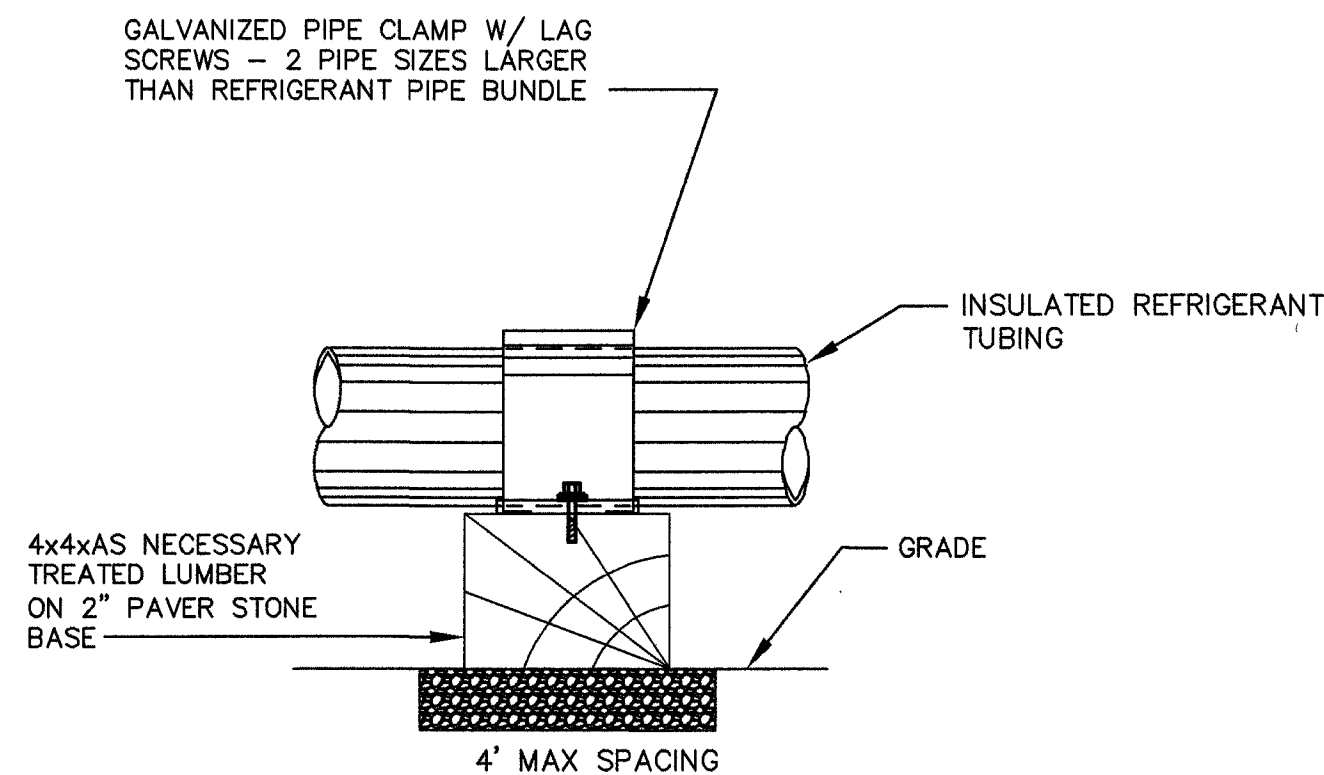


8 SHOP VENTILATION CONTROL
M2 NO SCALE



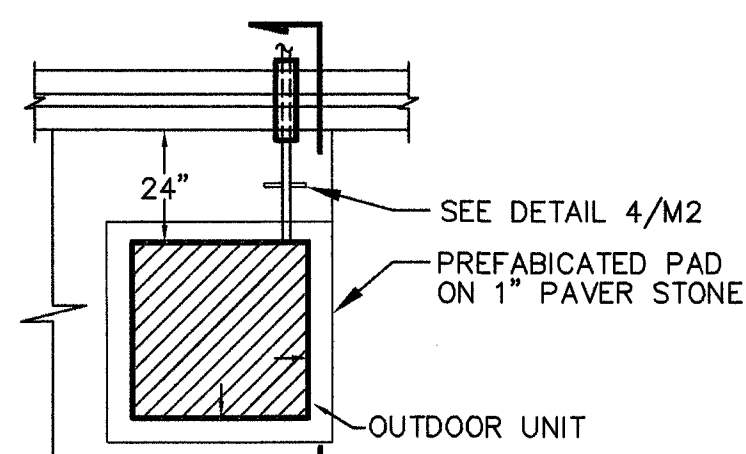
NOTES:
1. DIGITAL AND PROGRAMMABLE.
2. ADAPTIVE RECOVERY
3. HEAT PUMP OPERATION

3 DIGITAL/PROGRAMMABLE THERMOSTAT (TYP)
M2 NO SCALE



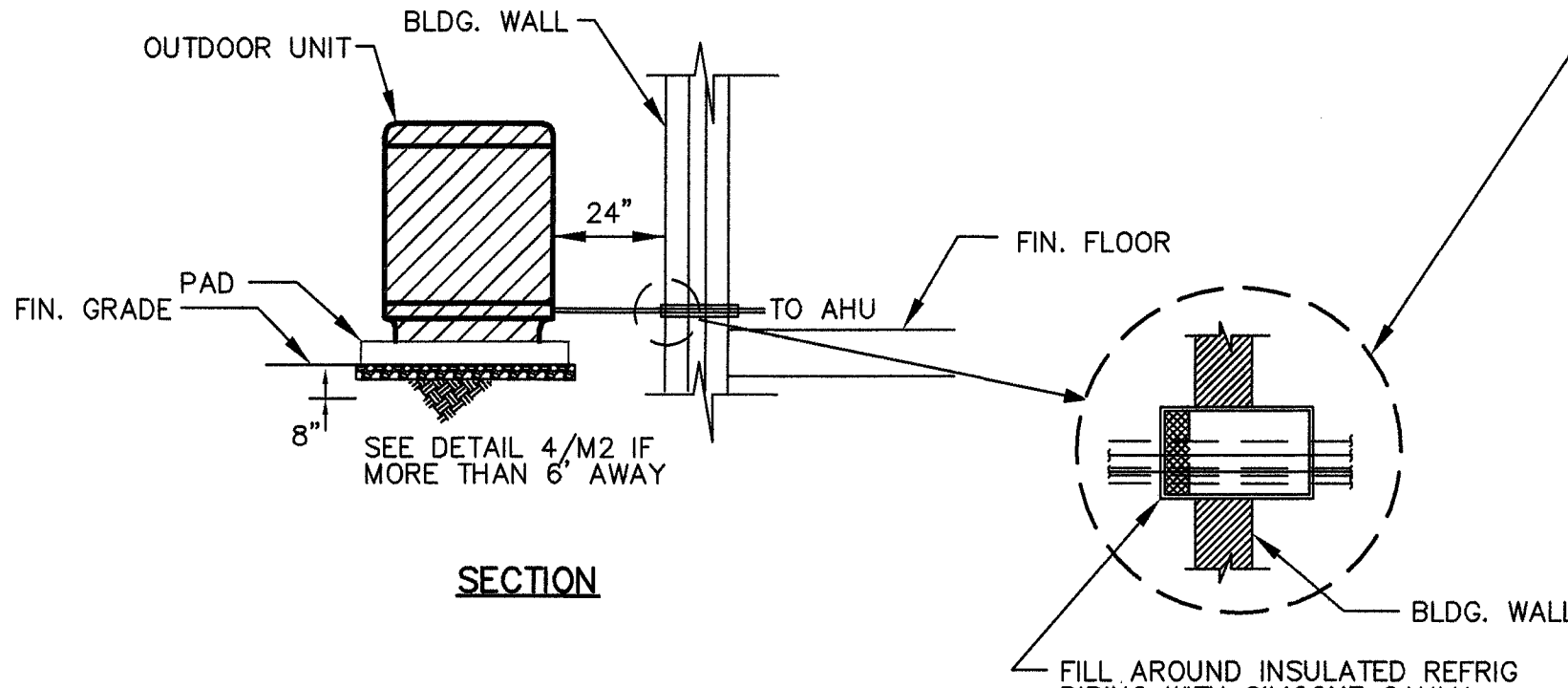
4 REFRIGERANT TUBING SUPPORT
M2 NO SCALE

USE IF OUTDOOR UNIT LOCATED MORE THAN 6" AWAY FROM EXTERIOR WALL



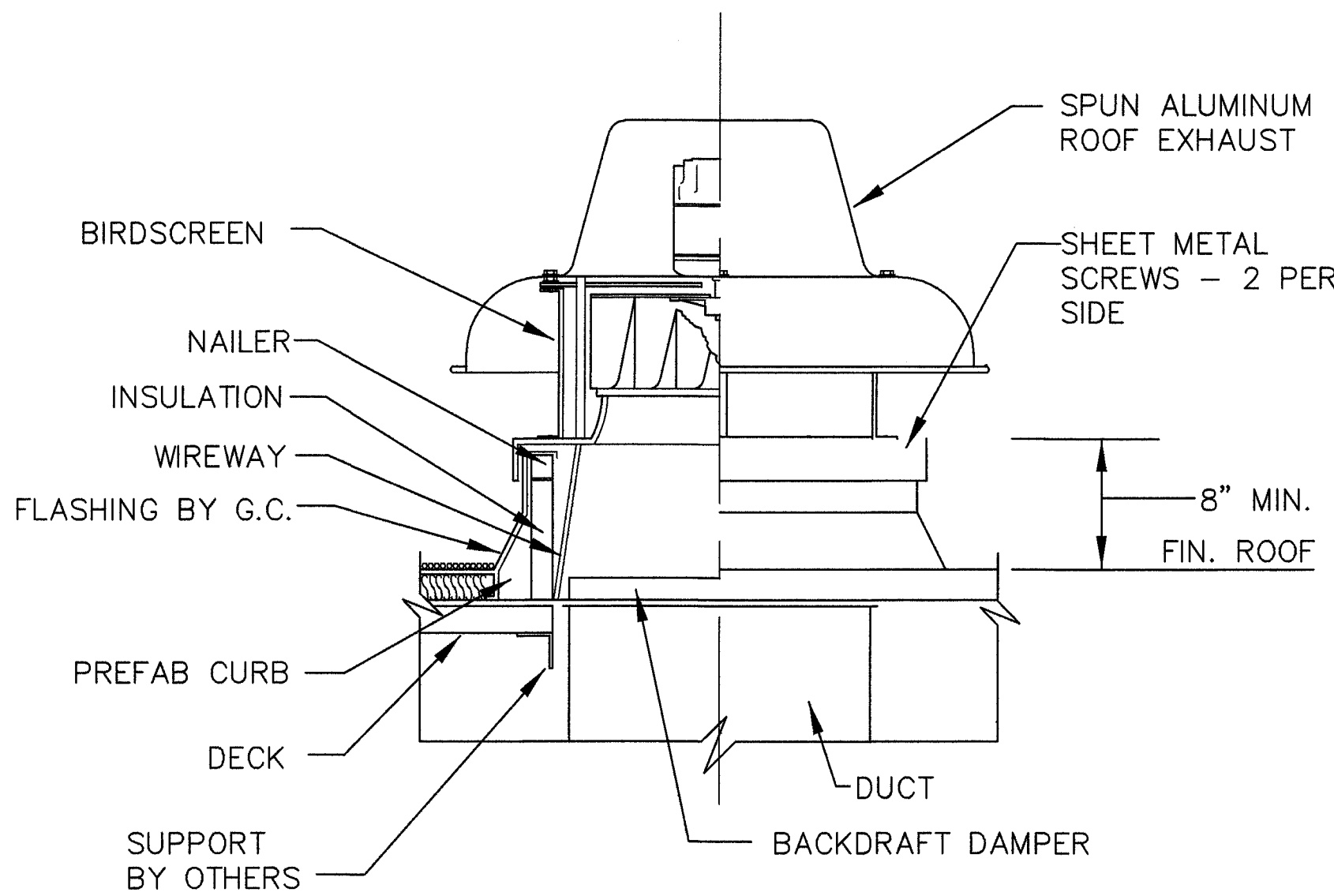
PLAN VIEW

LEAVE A NOMINAL 1/4" SPACE AT PIPING FACE AND FILL WITH CLOSED CELL NEOPRENE FOAM INSULATION TO PROVIDE BACKING FOR SILICONE CAULKING



SECTION

7 OUTDOOR CONDENSING UNIT AND REFRIGERANT PIPING
M2 NOT TO SCALE:



9 SHOP ROOF-MTD EXHAUST FAN
M2 NO SCALE

- ELECTRICAL NOTES:**
1. PROVIDE AS NECESSARY ALL WORK, COORDINATION AMONG TRADES, EQUIPMENT, FIXTURES, DEVICES, MATERIALS, AND LABOR FOR THE INSTALLATION OF THE PLUMBING WORK AS SHOWN OR IMPLIED BY THESE PLANS.
 2. ALL WORK AND MATERIALS SHALL COMPLY WITH APPROVED, APPLICABLE STATE, LOCAL, AND NATIONAL CODES INCLUDING THE 2020 NATIONAL ELECTRICAL CODE AND THE NC STATE BUILDING CODE.
 3. REVIEW THE CONTRACT DOCUMENTS OF OTHER TRADES AND ACTUAL FIELD CONDITIONS TO AVOID CONFLICTS AND INTERFERENCES.
 4. PREPLAN ALL WORK PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY PART OF THE WORK DESCRIBED BY THIS DRAWING.
 5. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING FIELD CONDITIONS OR THE WORK OF OTHER TRADES.
 6. RESOLVE ALL CONFLICTS PRIOR TO INCURRING ANY MATERIAL OR LABOR EXPENSES. ADVISE THE ENGINEER OF ANY UNRESOLVED CONFLICTS AND INTERFERENCES, AND OBTAIN A RESOLUTION BEFORE PROCEEDING.
 7. PROVIDE ONLY NEW PRODUCTS, DEVICES, AND MATERIALS LISTED AND LABELED (FOR THE USE INTENDED) BY AN APPROVED THIRD PARTY LABORATORY SERVICE SUCH AS UNDERWRITER'S LABORATORIES, INC.
 8. PROVIDE ALL CUTTING AND PATCHING. RESTORE CUT AREAS TO PRE-CONSTRUCTION CONDITIONS.
 9. VERIFY NEW LIGHTING FIXTURE LOCATIONS WITH EXISTING CONDITIONS. RESOLVE ALL CONFLICTS AND CLEARANCE ISSUES. EXIT SIGNS SHALL HAVE DIRECTIONAL ARROWS AS SHOWN ON THE DRAWING.
 10. CONNECT EXIT SIGNS AND EGRESS LIGHT FIXTURES DIRECTLY TO THE LOCAL LIGHTING CIRCUIT BUT AHEAD OF ANY SWITCHES OR DIMMERS.
 11. PROVIDE IMC CONDUITS AND APPROVED FITTINGS FOR EXTERIOR WORK AND EMT CONDUITS WITH SET SCREW CONNECTIONS FOR INSIDE WORK. ALL CONDUITS ALL CONDUITS STUBBED THROUGH A WALL SHALL BE CAPPED OR SEALED WITH FOAM.
 12. ALL CONDUIT AND PIPING PENETRATIONS OF NONRATED ASSEMBLIES SHALL BE DRAFT-STOPPED USING DRYWALL COMPOUND AND OR MINERAL WOOL.
 13. ALL JUNCTION AND PULL BOXES SHALL BE SECURELY INSTALLED WITH COVERS INSTALLED.
 14. PROVIDE TYPE THHN/THWN COPPER CONDUCTORS SIZED AS SHOW FOR FEEDERS AND #12 AWG FOR OTHER CIRCUITRY. INFORMATION TECHNOLOGY (IT) LOW VOLTAGE CABLING SHALL BE SECURED UP IN THE CEILING SPACE AND NOT LAID OVER TOP OF THE CEILING TILES.
 15. LOCATE ALL WORK GENERALLY AS SHOWN ON THIS DRAWING. HOWEVER, COORDINATE PANEL, FIXTURE, AND DEVICE LOCATIONS WITH ACTUAL FIELD CONDITIONS.
 16. COMPLY WITH THE MANUFACTURER'S TECHNICAL INSTRUCTIONS WHEN INSTALLING EQUIPMENT, FIXTURES, DEVICES, AND MATERIALS. PROVIDE ALL APPURTENANCES NECESSARY FOR A PROPER INSTALLATION.
 17. FURNISH AND INSTALL ANY MISCELLANEOUS METAL SUPPORTS, FASTENERS, MOUNTS, HANGERS, SIDE BRACES, ETC., WHICH MAY BE REQUIRED TO SECURELY ANCHOR AND SUPPORT PLUMBING FIXTURES, DEVICES, AND MATERIALS.
 18. COORDINATE ROUTING OF ALL CONDUITS WITH THE BUILDING STRUCTURE AND WITH THE WORK OF OTHER TRADES.
 19. SUPPORT CONDUITS PASSING THROUGH WALLS AS NECESSARY TO PREVENT BREAKAGE. OFFSET CONDUITS AROUND COLUMNS, BEAMS, AND JOISTS AS NECESSARY.
 20. STARTERS, CONTROLS, AND CONTROLS WIRING FOR EQUIPMENT FURNISHED BY OTHER TRADES SHALL BE PROVIDED BY THE TRADE FURNISHING THE EQUIPMENT UNLESS OTHERWISE NOTED ON THE ELECTRICAL DRAWINGS. THE ELECTRICAL TRADE SHALL WIRE THROUGH ANY LINE VOLTAGE CONTROLS DEVICES TO MAKE FINAL CONNECTIONS AT EQUIPMENT FURNISHED BY OTHERS.
 21. THE ELECTRICAL TRADE SHALL PROVIDE DISCONNECTS FOR ALL EQUIPMENT FURNISHED BY OTHERS. FUSE ALL DISCONNECTS AT THE EQUIPMENT NAMEPLATE MAXIMUM OVER CURRENT PROTECTION RATING (MOCR). COORDINATE THE MOUNTING OF DISCONNECTS TO SIDES OF HVAC EQUIPMENT WITH THE HVAC TRADE SO AS TO MAINTAIN ACCESS TO THE EQUIPMENT.

- NOTES KEYED TO PLAN**
1. EXISTING EXTERIOR LIGHTING TO REMAIN. SERVED FROM HOUSE COMBINATION METER/BREAKER PANEL AT ELECTRIC SERVICE TROUGH.
 2. VERIFY EXISTING EXIT SIGN CONDITION AND SPECIFICATIONS. REUSE IF IT CONFORMS TO THESE REQUIREMENTS. REPLACE IF IT DOES NOT. MOUNT ABOVE DOOR.
 3. PROVIDE EMERGENCY EGRESS FIXTURE FOR THE PATH OF EGRESS AROUND THE PERIMETER OF THE SPACE. MTD AT 7'6" AFF.
 4. COORDINATE WITH THE TENANT FOR THE SUSPENSION HEIGHT OF THE FIXTURE ABOVE THE FINISHED FLOOR.
 5. EQUALLY SPACE FIXTURES BETWEEN LIFTS. COORDINATE WITH TENANT FOR MAXIMUM ILLUMINATION OF WORKING SPACE AROUND VEHICLES.
 6. EXISTING 20A/1P CIRCUIT FROM PANEL 'A' FOR INTERIOR LIGHTING. REWORK AND EXTEND THE CIRCUIT TO NEW LIGHTING FIXTURES AS SHOWN IN THE SHOP.
 7. NEW CIRCUIT FOR FRONT OFFICE LIGHTING. HOMERUN TO PANEL 'A' AND EXISTING 20A/1P SPARE BREAKER.
- RATED WALL LEGEND**
- EXISTING 1-HR RATED WALL

APPENDIX B	
2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS	
ELECTRICAL DESIGN ELECTRICAL SUMMARY	
ELECTRICAL SYSTEMS AND EQUIPMENT	
Method of Compliance:	
Energy Code:	■ Prescriptive □ Performance
ASHRAE 90.1:	□ Prescriptive □ Performance
Lighting Schedule:	
Temporary lighting only	
Additional Prescriptive Compliance:	
□ 406.1 More Efficient Mechanical Performance	
■ 406.2 Reduced Lighting Power Density System	
□ 406.3 Enhanced Lighting Controls	
□ 406.4 On-Site Supply of Renewable Energy	
□ 406.5 Provision of a Dedicated Outdoor Air System	
□ 406.6 High-Efficiency Service Water Heating	

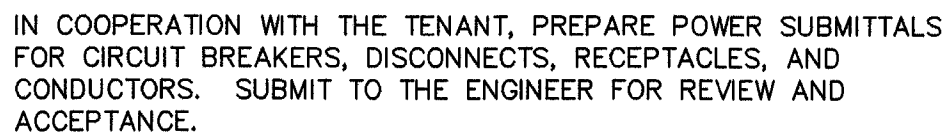
ELECTRICAL LEGEND	
	CIRCUIT HOMERUN
	1x8 SUSPENDED LED FIXTURE
	RECESSED/FLUSH-MOUNT LED FIXTURE
	EXIT SIGN WITH 90-MIN BATTERY AND EGRESS ILLUMINATION LAMPS (ARROWS DENOTE DIRECTION ARROW)
	EMERGENCY EGRESS LIGHTING FIXTURE
	SINGLE POLE OCCUPANCY SWITCH
	3-WAY OCCUPANCY SWITCH
	4-WAY SWITCH
	EXISTING SURFACE MOUNTED PANELBOARD
	KEY NOTE

WALL ASSEMBLY LEGEND	
	NEW WALL: ULL U05 5-1/2" WOOD STUDS WITH 5/8" TYPE 'X' GYP ON BOTH SIDES W/ FIBERGLASS BATT INSULATION BUILT FROM SLAB TO THE BOTTOM OF ROOF STRUCTURE.
	NEW WALL: NEW FRAMING BY GC. 3-1/2" WOOD STUDS WITH 5/8" GYP ON BOTH SIDES BUILT TO BOTTOM SIDE OF CEILING FRAMING
	NEW WALL: NEW FRAMING BY GC. 5-1/2" WOOD STUDS WITH 5/8" GYP ON BOTH SIDES BUILT TO BOTTOM SIDE OF CEILING FRAMING


- NOTE TO SUBCONTRACTOR**
- IN COOPERATION WITH THE TENANT, PREPARE LIGHTING SUBMITTALS FOR FIXTURES AND SWITCHES. SUBMIT TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
- A RECESSED, FLUSH MOUNT, 12W LED DOWNLIGHT
B SUSPENDED, LED 8' LONG STRIP LIGHT, SELECTABLE 50-90W
EX WALL-MTD EXIT SIGN RED LETTER, 90-MINUTE BATTERY RECHARGER, AND TEST BUTTON
EG WALL-MTD EMERGENCY EGRESS LIGHTING UNIT WITH LED HEADS, 90-MINUTE BATTERY, RECHARGER, AND TEST BUTTON
- EXISTING EXTERIOR LIGHTING TO REMAIN AND CONNECTED TO HOUSE POWER AT METER.

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

- WIRING DEVICE MOUNTING HEIGHTS:**
- IN GENERAL, MOUNT ALL WIRING DEVICES AT:
- 48" MAX ABOVE FINISHED FLOOR (AFF) TO HIGHEST OPERABLE PART FOR ALL THERMOSTATS AND INTERCOMS.
 - 48" MAX AFF TO HIGHEST OPERABLE PART IN "ON" POSITION FOR ALL LIGHT SWITCHES.
 - 15" MIN AFF TO CENTERLINE OF LOWEST RECEPTACLE (OR 18" MIN TO CENTERLINE OF BOX) FOR ALL WALL RECEPTACLES.
 - 48" MAX AFF TO CENTERLINE OF HIGHEST RECEPTACLE.




- W1**




NEW WALL: UI U305
 5-1/2" WOOD STUDS WITH 5/8" TYPE "X" GYP ON BOTH SIDES W/ FIBERGLASS BATT INSULATION BUILT FROM SLAB TO THE BOTTOM OF ROOF STRUCTURE.

W2



NEW WALL: NEW FRAMING BY GC.
 3-1/2" WOOD STUDS WITH 5/8" GYP ON BOTH SIDES BUILT TO BOTTOM SIDE OF CEILING FRAMING

W3



NEW WALL: NEW FRAMING BY GC.
 5-1/2" WOOD STUDS WITH 5/8" GYP ON BOTH SIDES BUILT TO BOTTOM SIDE OF CEILING FRAMING

1. BENDS ALL CONDUCTORS WITH A UNIFORM RADIUS.
2. BEND CONDUCTORS TO THE BACK COVER OF THE PANEL ENCLOSURE AND THEN FORWARD TO THE CIRCUIT BREAKER TERMINAL.
3. THE WRAP CONDUCTORS IN GROUPS AND AT REGULAR INTERVALS TO FORM NEAT, ORDERLY WIRE BUNDLES.
4. CLEAN THE ENCLOSURE OF ALL DEBRIS AND UNUSED MATERIALS.
5. PROVIDE A TYPED DIRECTORY OF CIRCUITS ACCURATELY DENOTING ROOMS SERVED.
6. WHEN FINISHED, PANEL SHALL PRESENT A CLEAN, NEAT, AND ORDERLY APPEARANCE.



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