




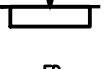
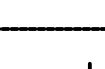
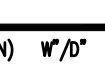
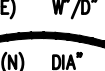


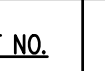












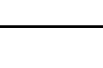


MECHANICAL NOTES

1. **SCOPE OF WORK**
 - A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
 - B. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE FLORIDA BUILDING CODE 2020, ALL LOCAL CODES AND ALL OTHER REGULATION GOVERNING WORK OF THIS NATURE.
 - C. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
 - D. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.
2. **PERMITS**
 - A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.
3. **SHOP DRAWINGS**
 - A. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT FIVE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.
4. **FLEXIBLE TYPE DUCT**
 - A. SHALL BE OF TWO ELEMENT SPIRAL CONSTRUCTION COMPOSED OF A CORROSION RESISTANT METAL SUPPORTING SPIRAL AND COATED FABRIC WITH A MINERAL BASE. FLEXIBLE DUCT CONNECTORS SHALL BE LISTED BY U.L., CLASS 1 DUCTS, AND SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50.
 - B. NOT USED
 - C. CONTRACTOR SHALL BE CAREFUL SO AS NOT TO KINK OR COLLAPSE FLEXIBLE DUCT.
5. **REFRIGERENT PIPING**
 - A. CONTRACTOR SHALL PROVIDE AND INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN SUCH A WAY AS TO BE INCONSPICUOUS AND FREE FROM ANY POSSIBLE CONDENSATION. INSULATE REFRIGERANT LINES WITH ARMOUR-FLEX TYPE INSULATION.
 - B. SHALL BE TYPE "K" COPPER TUBING, WITH WROUGHT COPPER SOLDER TYPE FITTINGS SUITABLE FOR CONNECTION WITH SILVER SOLDER.
6. **DUCTWORK**
 - A. THE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "NAAMA" APPLICABLE MANUALS. ALL DUCTWORK SHALL BE THE LOW VELOCITY TYPE, UNLESS SPECIFIED OTHERWISE.
 - B. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCTWORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON DRAWINGS.
 - C. ALL BRANCH DUCTS TO HAVE VOLUME DAMPERS.
 - D. SMOOTH TURN RADIUS DUCTWORK OR TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 150 CFM.
 - E. ALL DUCT JOINTS TO BE SEALED IN ACCORDANCE WITH "SMACNA" STANDARDS AND ACCEPTED GOOD PRACTICE.
 - F. ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE VALUES. DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE AREA IS MAINTAINED.
 - G. ALL AIR CONDITIONING DUCTWORK ABOVE CEILING SHALL BE OF 1" (R-4) HEAVY DUTY FOIL REINFORCED FIBERGLASS. ALL FLEXIBLE DUCT SHALL BE R-4.
 - H. ALL AIR CONDITIONING DUCTWORK EXPOSED SHALL BE GALVANIZED SHEETMETAL WITH SEALED SEAMS AND JOINTS. INSTALL WITH 1" (R-4) INTERNAL INSULATION. ALL RIGID DUCT SHALL BE R-4.
 - I. ALL OUTSIDE AIR DUCTWORK EXPOSED SHALL BE GALVANIZED SHEETMETAL WITH SEALED SEAMS AND JOINTS. INTERNALLY LINED WITH 1.5" (R-6) INSULATION.
7. **DRAINAGE PIPING (CONDENSATE)**
 - A. SHALL BE SCHEDULE 40 PVC PIPE WITH SOLVENT JOINTS. PITCH HORIZONTAL LINES 1" IN 10'-0". CONDENSATE DRAINS SHALL BE ROUTED TO FLOOR DRAIN OR INDIRECT WASTE DRAIN.
8. **HVAC CONTROLS**
 - A. CONTRACTOR TO SUPPLY AND INSTALL ALL CONTROL WIRING AND THERMOSTATS AS REQUIRED.
9. **ELECTRICAL**
 - A. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATION OF WIRING FOR EACH HVAC UNIT.
10. **PIPE SUPPORTS**
 - A. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE OR METAL STRAP TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL NOT EXCEED 8 FEET FOR ALL PIPING. PLASTIC PIPING TO BE SUPPORTED EVERY 4 FEET.
11. **GAS PIPING**
 - A. NOT USED
12. **MISCELLANEOUS**
 - A. ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE.
 - B. NOT USED
 - C. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
 - D. THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.
13. **TESTING AND BALANCING**
 - A. PROVIDE TEST AND BALANCE REPORT GENERATED BY INDEPENDENT THIRD PARTY NEBB OR AABC CERTIFIED T&B FIRM TO OWNER.
14. **GUARANTEE**
 - A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
 - B. FOR THE SAME PERIOD, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.
14. **PIPE**
 - A. CONDENSER WATER PIPING SHALL BE BLACK STEEL SCH. 40 OR TYPE "L" HARD DRAWN COPPER.

MECHANICAL LEGEND

 SUPPLY AIR CEILING DIFFUSER  RETURN AIR CEILING DIFFUSER  EXISTING SUPPLY AIR CEILING DIFFUSER  EXISTING RETURN AIR CEILING DIFFUSER  SUPPLY AIR SIDEWALL REGISTER  RETURN AIR SIDEWALL GRILLE  FIRE DAMPER  EXISTING  VOLUME CONTROL DAMPER  NEW RIGID DUCT (DIMENSIONS IN INCH)  EXISTING RIGID DUCT (DIMENSIONS IN INCH)  NEW FLEXIBLE DUCT (DIMENSIONS IN INCH)	 CEILING EXHAUST FAN  EXISTING CEILING EXHAUST FAN  DUCT TAKE OFF WITH DAMPER  THERMOSTAT  HUMIDISTAT  KEY REMOTE WITH AUDIOVISUAL LED  WALL MOUNTED REMOTE BULB SENSOR  SMOKE DETECTOR  AIR DEVICE TAG & AIR FLOW DATA  DUCT SMOKE DETECTOR  MOTORIZED DAMPER  RELOCATED  EXISTING
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MECHANICAL SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
M0	MECHANICAL SPECIFICATIONS LEGEND & SHEET INDEX
M1	MECHANICAL PLAN
M-1-1	MECHANICAL ROOF PLAN
M2	MECHANICAL SCHEDULES & CALCULATIONS

Architect Seal

JOSE RUBEN JIMENEZ
 FLORIDA REGISTERED ARCHITECT
 No. AR 94903
NOT VALID UNLESS IT BEARS SEAL AND ORIGINAL SIGNATURE
 Submittal / Revision No. date
 DD1 07 / 09 / 21
 FOR ENGINEERS 10 / 13 / 21

PROPOSED OUTDOOR DINING PATIO
 ENCLOSURE AT:
FLASHBACK DINER
 1424 N. FEDERAL HIGHWAY
 BOCA RATON, FLORIDA 33432

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Project Number 21-0603

Date 07 / 09 / 2021

Drawing Name

HVAC SPECIFICATIONS

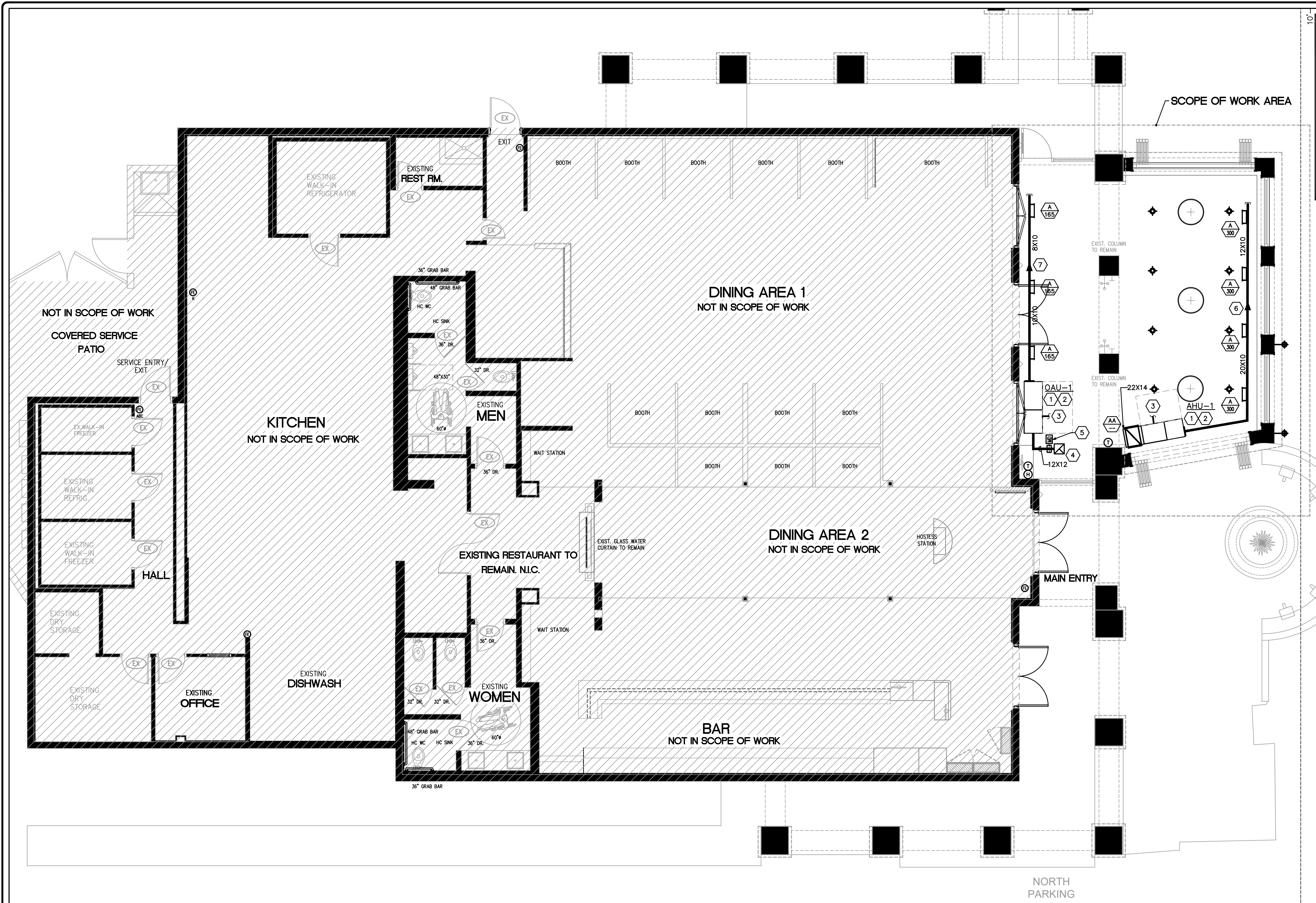
Sheet Number

M-0

DRAWING ISSUED FOR: PERMIT
 DRAWING NO: 2021-110 DATE: 11/9/2021

ENGINEER OF RECORD
 MARTIN WHITELOCKE
 FLORIDA LICENSE NO. 53899
 11/9/2021
 DATE

Whitelocke & Williams
 CONSULTING ENGINEERS, LLC
 18446 OLD PRINCETON LANE,
 BOCA RATON, FL 33498
 TEL: 561-703-0625
 FAX: 360-851-8720
 EMAIL: INFO@ANDWICE.COM
 CERTIFICATE OF AUTHORIZATION # 29076



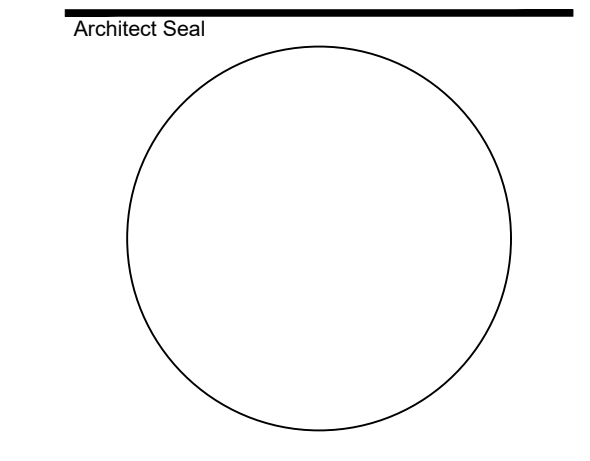
GENERAL NEW WORK NOTES

1. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT. CONTRACTOR SHALL REPAIR EXISTING UNITS AS NEEDED.
2. ALL WORK SHALL BE DONE IN COMPLY WITH THE LATEST EDITION OF ALL APPLICABLE CODES AND AUTHORITY HAVING JURISDICTION.
3. ALL INFORMATION CONTAINED IN THESE DRAWINGS IS ACCORDING TO THE ORIGINAL CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER AND LIMITED FIELD OBSERVATIONS. THE ENGINEER MAKES NO REPRESENTATION FOR THE ACCURACY OF SUCH INFORMATION AND ALL MATERIALS, EQUIPMENT, DIMENSIONS, CONDITIONS, ETC. SHALL BE FIELD VERIFIED.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH ALL OTHER TRADES AND FOR ANY REPAIRS DUE TO ACCIDENTAL DAMAGES OR FAULTY WORKMANSHIP.
6. ALL R/A GRILLES SHALL BE PROVIDED WITH PROTECTIVE CONSTRUCTION FILTERS AND ALL A/C UNITS SHALL HAVE THEIR FILTERS REPLACED WITH NEW ONES AT THE END OF THE CONSTRUCTION PERIOD.
8. FOR ALL ADDITIONAL INFORMATION REGARDING SCOPE OF WORK AND BUILDING CONDITION, COORDINATE WITH ARCHITECTURAL PLANS.

KEY NOTES

- 1 PROVIDE SERVICE AND REPLACEMENT CLEARANCE PER MANUFACTURER REQUIREMENTS, NEC AND FSCM SECTION 306.1. (COORDINATE EXACT LOCATION OF UNIT WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS). PROVIDE ACCESS PANEL AS NEEDED.
- 2 CONTRACTOR SHALL FIELD COORDINATE AHU HANGING METHOD WITH EXISTING CONDITIONS.
- 3 CONTRACTOR SHALL FIELD COORDINATE EXACT ROUTING OF REFRIGERANT LINES. CONTRACTOR TO FIELD COORDINATE PENETRATION INTO BUILDING AND PATCH AS NEEDED.
- 4 12X12 O/A DUCT UP TO GRAVITY INTAKE HOOD ON ROOF.
- 5 INTER-LOCK MOTORIZED DAMPER WITH O/A UNIT.
- 6 DUCTWORK SHALL BE GALVANIZED SHEET METAL INTERNALLY LINED WITH R-4 INSULATION. SEE NOTE 6H ON SHEET M-0.
- 7 OUTSIDE AIR DUCTWORK SHALL BE GALVANIZED SHEET METAL INTERNALLY LINED WITH R-6 INSULATION. SEE NOTE 6I ON SHEET M-0.

r-method
r-method, inc. # AA26002053
residential + retail
architectural
1522 SW 13th Court
Pompano Beach, FL 33069
e: info@r-method.net p: 305.914.5355



JOSE RUBEN JIMENEZ
FLORIDA REGISTERED ARCHITECT
No. AR 94903
DD1 07 / 09 / 21
FOR ENGINEERS 10 / 13 / 21

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Project Number 21-0603
Date 07 / 09 / 2021
Drawing Name

HVAC PLAN

Sheet Number

M-1

HVAC PLAN 3/16" = 1'-0"

DRAWING ISSUED FOR: PERMIT
WORK#: 2021-110 DATE: 11/9/2021

ENGINEER OF RECORD
MARTIN WHITELOCKE
FLORIDA LICENSE NO. 53899
11/9/2021
DATE

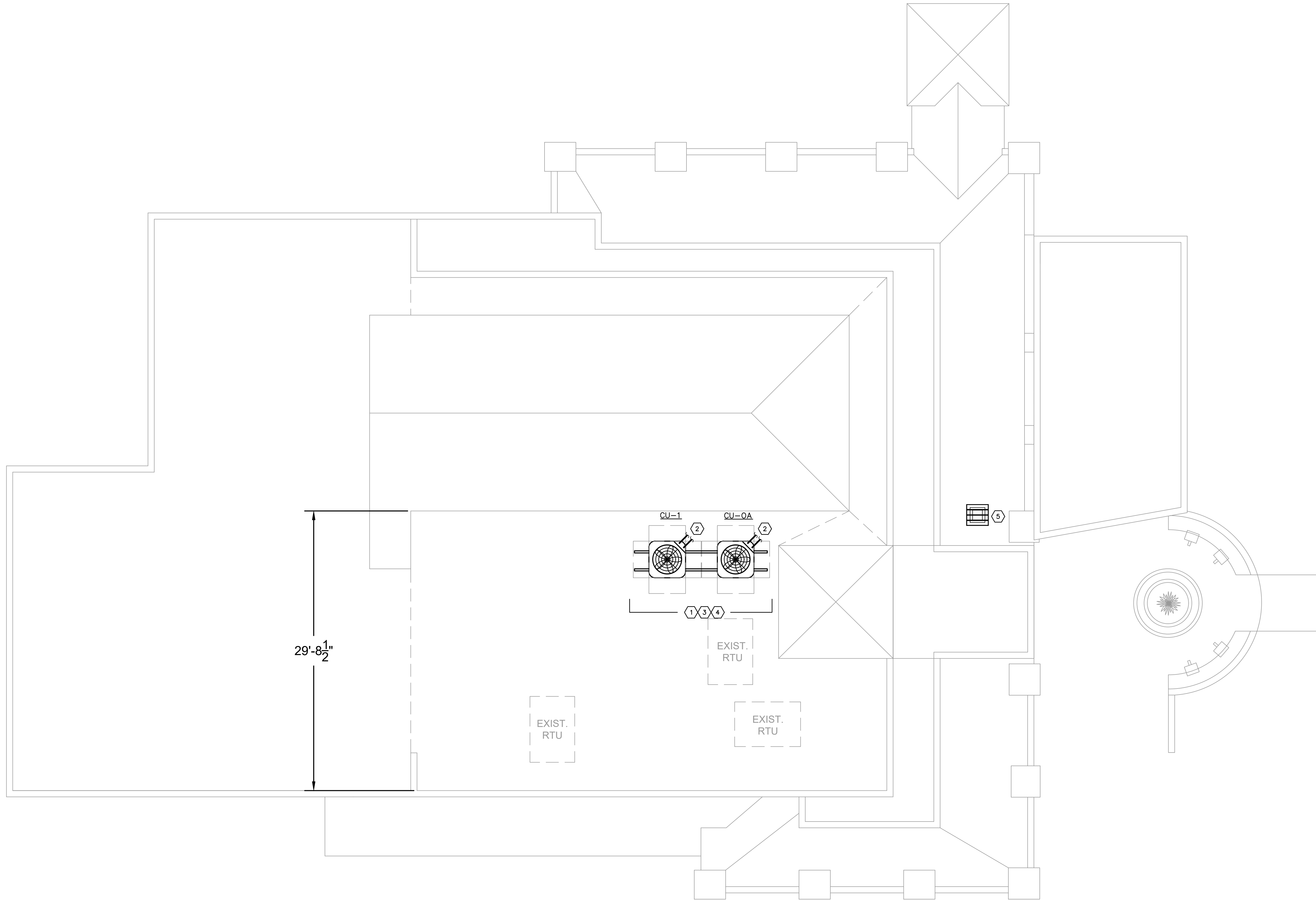
Whitelocke & Williams
CONSULTING ENGINEERS, LLC
18446 OLD PRINCETON LANE,
BOCA RATON, FL 33498
TEL: 561-703-0625
FAX: 360-851-8720
EMAIL: INFO@ANDWICE.COM
CERTIFICATE OF AUTHORIZATION # 29076

SOUTH
PARKING

NORTH
PARKING

KEY NOTES

- ① PROVIDE SERVICE AND REPLACEMENT CLEARANCE PER MANUFACTURER REQUIREMENTS, NEC AND FBCM SECTION 306.1. (COORDINATE EXACT LOCATION OF UNIT WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS). PROVIDE ACCESS PANEL AS NEEDED.
- ② REF. LINES (FIELD COORDINATE EXACT ROUTE). CONTRACTOR SHALL FIELD COORDINATE PENETRATION INTO BUILDING AND PATCH AS NEEDED. CONTRACTOR SHALL COORDINATE REFRIG. LINE LENGTHS WITH MANUFACTURER PRIOR TO INSTALLATION.
- ③ CONTRACTOR SHALL FIELD COORDINATE THE EXACT MOUNTING LOCATION OF THE CONDENSING UNITS WITH FIELD CONDITIONS AND BUILDING OWNER.
- ④ CONDENSING UNITS TO BE MOUNTED ON EQUIPMENT RACK.
- ⑤ GRAVITY INTAKE HOOD GREENHECK FGI 12X12. MINIMUM OF 10'-0" FROM ANY EXHAUST VENT OR EXHAUST FANS.



29'-8 1/2"

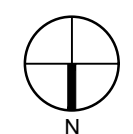
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CU-1

CU-0A



HVAC ROOF PLAN 3/16" = 1'-0"

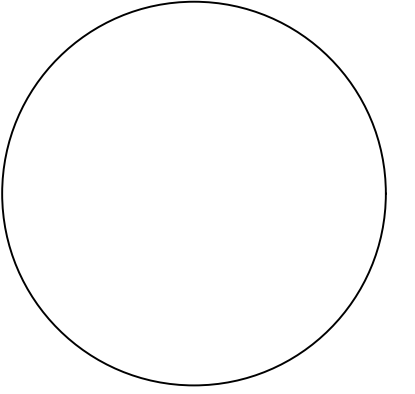
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Project Number 21-0603
Date 07 / 09 / 2021
Drawing Name

HVAC
ROOF PLAN

Sheet Number

M-1-1

OUTSIDE AIR CALCULATIONS								
AREA SERVED OR UNIT TAG	NET OCCUPIABLE AREA SQ.FT.	VENTILATION RATE O/A CFM/SQ.FT.	MAX. OCCUPANCY P/1000 SQ.FT.	ACTUAL OCCUP. NO. OF PEOPLE	VENTILATION RATE O/A CFM/PERSON	COMBINED TOTAL CFM O/A REQ'D	COMBINED TOTAL CFM O/A PROV'D	NOTES
DINING	750	0.18	-	40	7.5	435	500	1,2
						TOTAL	435	500

NOTES:
1. CALCULATIONS ARE BASED ON ESTIMATED MAX. OCCUPANCY RATES PER ARCHITECTURAL PLANS04;

SUPPLY & RETURN AIR GRILLE SCHEDULE											
TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
A	TITUS 301FS	NECK + 1-3/4"	14X6	ALUM.	SURFACE	OFF WHITE	OBD	-	MAX. 25	SEE SCH.	*
AA	TITUS 350 FL	NECK + 1-3/4"	24X16	ALUM.	SURFACE	OFF WHITE	OBD	-	MAX. 25	SEE SCH.	*

(*) EQUIVALENT MANUFACTURER: METALAIRE, PRICE, CARNES, T & B, NAILOR

GENERAL NOTES:
1. REFER TO ARCHITECT PLANS FOR CEILING TYPE.
2. FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL.
3. PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE
4. PROVIDE VOLUME CONTROL DAMPERS FOR ALL RETURN GRILLES OR REGISTERS TO BALANCE AIRFLOW PER FBC 2020, PAR. 601.4.

AIR CONDITIONING SPLIT SYSTEM EQUIPMENT SCHEDULE																	
CONDENSING UNIT																	
CU TAG	MANUFACTURER & MODEL	NOMINAL TONNAGE	CAP. STAGES	(S)EER/PLV	REFRIG./LBS	LIQ./SUCT.	NO. FANS	FAN FLA(EA)	NO. COMP.	COMP. RLA	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES		
CU-1	CARRIER/24ABC836-3	3.0	1	(16.0)/-	R-410A/-	3/8 / 7/8	1	0.5	1	14.1	208/1	17.5/30	204	35X35X29	SEE NOTES		
AIR HANDLING UNIT																	
AHU TAG	MANUFACTURER & MODEL	TOTAL MBH	SENSIBLE MBH	TOTAL CFM	O/A CFM	E.S.P. (*W.G.)	ENT. DB/WB	LEAV. DB/WB	REHEAT LEAV. DB	ROWS/FPI	FAN HP/FLA	HEATER KW	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES
AHU-1	CARRIER/FX4DNF037	31.9	26.9	1200	-	0.5	76.1/63.6	53.6/52.5	-	-/4.1	7	208/1	44.7/45	157	22X22X50	SEE NOTES	

NOTES:
1. UNITS RATED PER ARI 210, 240 AND 270, APPROVED EQUAL: AAO, CARRIER, LENNOX, TRANE, YORK
2. PROVIDE WITH THERMAL EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES
3. PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY
4. PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION.
5. PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SIDE SERVICE ACCESS
6. PROVIDE SINGLE POINT POWER ENTRY AND HEAVY DUTY NICKEL-CHROMIUM ELEMENT HEATER
7. PROVIDE MERV 8 FILTER AND VIBRATION ISOLATION FOR AHU
8. PROVIDE FACTORY MOUNTED FUSIBLE DISCONNECT/STARTER FOR A.H.U., COORDINATE PRIOR TO PURCHASING
9. PROVIDE DISCONNECT FOR C.U. (INSTALLED BY ELECTRICAL) COORDINATE PRIOR TO PURCHASING
10. PROVIDE FACTORY PROGRAMMABLE THERMOSTAT TO MATCH CAPACITY STAGES.
11. PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER, NOT TO EXCEED 150 FT. EQUIV. LENGTH FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK.
12. PROVIDE A LIQUID LINE SOLENOID VALVE INSTALLED AT THE AHU IF THE INSTALLED LINEAL LENGTH OF THE REFRIGERANT LIQUID LINES EXCEEDS 75 FT (FIELD VERIFY).
13. PROVIDE A SUCTION LINE ACCUMULATOR IF THE INSTALLED LINEAL LENGTH OF THE REFRIGERANT SUCTION LINES EXCEEDS 100 FT (FIELD VERIFY).
14. PROVIDE CORROSION PROTECTION COATING FOR CONDENSER COIL WITH MIN. 5-YEAR WARRANTY COATING BY SURFSIL, LUVATA, THERMOGUARD OR BYGOLD.
15. PROVIDE AUTOMATIC SHUT OFF FLOAT SWITCH OR SENSOR SWITCH IN UNIT'S DRAIN PAN SECONDARY CONNECTION, EQUAL TO "WATER GARD"
16. PROVIDE ELECTRIC HEATER WITH MIN. 2 STAGES IF OVER 10 KW CAPACITY.
17. PROVIDE MOTORIZED OUTSIDE AIR DAMPER INTERLOCK WITH COMPRESSOR
18. AS APPLICABLE, MANUFACTURE AND INSTALLATION SHALL COMPLY W/FMC 301.12 FOR WIND RESISTANCE

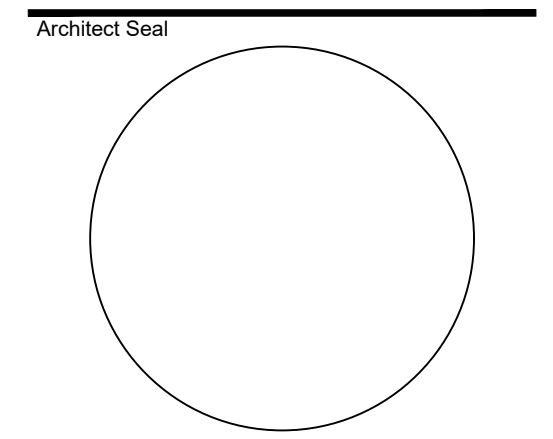
100% OUTSIDE AIR SPLIT SYSTEM EQUIPMENT SCHEDULE																
CONDENSING UNIT																
CU TAG	MANUFACTURER & MODEL	NOMINAL TONNAGE	CAP. STAGES	(S)EER/PLV	REFRIG./LBS	LIQ./SUCT.	NO. FANS	FAN FLA(EA)	NO. COMP.	COMP. RLA(EA)	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES	
CU-OA	CARRIER/JDC-AC60	5.0	1	12.5/-	R-410A	3/8 / 7/8	1	1.2	1	21.4	230/1	27.9/45	430	35X35X29	SEE NOTES	
AIR HANDLING UNIT																
AHU TAG	MANUFACTURER & MODEL	TOTAL MBH	SENSIBLE MBH	TOTAL CFM	O/A CFM	E.S.P. (*W.G.)	ENT. DB/WB	LEAV. DB/WB	REHEAT LEAV. DB	FAN HP/FLA	HEATER KW	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES
AHU-1	CARRIER/JDC-FB6	57.5	26.6	-	500	0.5	91/79	49.7/49.5	70.0	-/3.2	5.0	208/1	29/30	430	22X22X61	SEE NOTES

NOTES:
1. UNITS RATED PER ARI 210, 240 AND 270, APPROVED EQUAL: AAO, CARRIER, LENNOX, TRANE, YORK
2. PROVIDE WITH THERMAL EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES
3. PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY
4. PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION.
5. PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SIDE SERVICE ACCESS
6. PROVIDE SINGLE POINT POWER ENTRY AND HEAVY DUTY NICKEL-CHROMIUM ELEMENT HEATER
7. PROVIDE MERV 8 FILTER AND VIBRATION ISOLATION FOR AHU
8. PROVIDE COASTAL CORROSION PROTECTION FOR CONDENSING UNIT, FULLY DIPPED COIL (BY MANUFACTURER)
9. PROVIDE HOT GAS RE-HEAT (OR/AND BY-PASS IF REQUIRED), MAX. REFRIGERANT RUN 75 FEET OR AS REQUIRED BY MANUFACTURER.
10. PROVIDE FACTORY MOUNTED FUSIBLE DISCONNECT/STARTER FOR A.H.U., COORDINATE PRIOR TO PURCHASING
11. PROVIDE DISCONNECT FOR C.U. (INSTALLED BY ELECTRICAL) COORDINATE PRIOR TO PURCHASING
12. PROVIDE FACTORY PROGRAMMABLE THERMOSTAT TO MATCH CAPACITY STAGES.
13. PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER, NOT TO EXCEED 150 FT. EQUIV. LENGTH FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK.
16. PROVIDE A LIQUID LINE SOLENOID VALVE INSTALLED AT THE AHU IF THE INSTALLED LINEAL LENGTH OF THE REFRIGERANT LIQUID LINES EXCEEDS 75 FT (FIELD VERIFY).
17. PROVIDE A SUCTION LINE ACCUMULATOR IF THE INSTALLED LINEAL LENGTH OF THE REFRIGERANT SUCTION LINES EXCEEDS 100 FT (FIELD VERIFY).
18. PROVIDE CORROSION PROTECTION COATING FOR CONDENSER COIL WITH MIN. 5-YEAR WARRANTY COATING BY SURFSIL, LUVATA, THERMOGUARD OR BYGOLD.
19. PROVIDE AUTOMATIC SHUT OFF FLOAT SWITCH OR SENSOR SWITCH IN UNIT'S DRAIN PAN SECONDARY CONNECTION, EQUAL TO "WATER GARD"
20. PROVIDE ELECTRIC HEATER WITH MIN. 2 STAGES IF OVER 10 KW CAPACITY.
21. AS APPLICABLE, MANUFACTURE AND INSTALLATION SHALL COMPLY W/FMC 301.12 FOR WIND RESISTANCE

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 ENGINEER OF RECORD
 MARTIN WHITELOCKE
 FLORIDA LICENSE NO. 53899
 11/8/2021
 DATE

Whitelocke & Williams
 CONSULTING ENGINEERS, LLC
 18446 OLD PRINCETON LANE,
 BOCA RATON, FL 33498
 TEL: 561-703-0625
 FAX: 360-851-8720
 EMAIL: INFO@ANDWICE.COM
 CERTIFICATE OF AUTHORIZATION # 29076

r-method, inc. # AA26002053
 residential + retail
 architectural
 1522 SW 13th Court
 Pompano Beach, FL 33069
 e: info@r-method.net p: 305.914.5355



JOSE RUBEN JIMENEZ
 FLORIDA REGISTERED ARCHITECT
 No. AR 94903
 NOT VALID UNLESS IT BEARS SEAL AND ORIGINAL SIGNATURE
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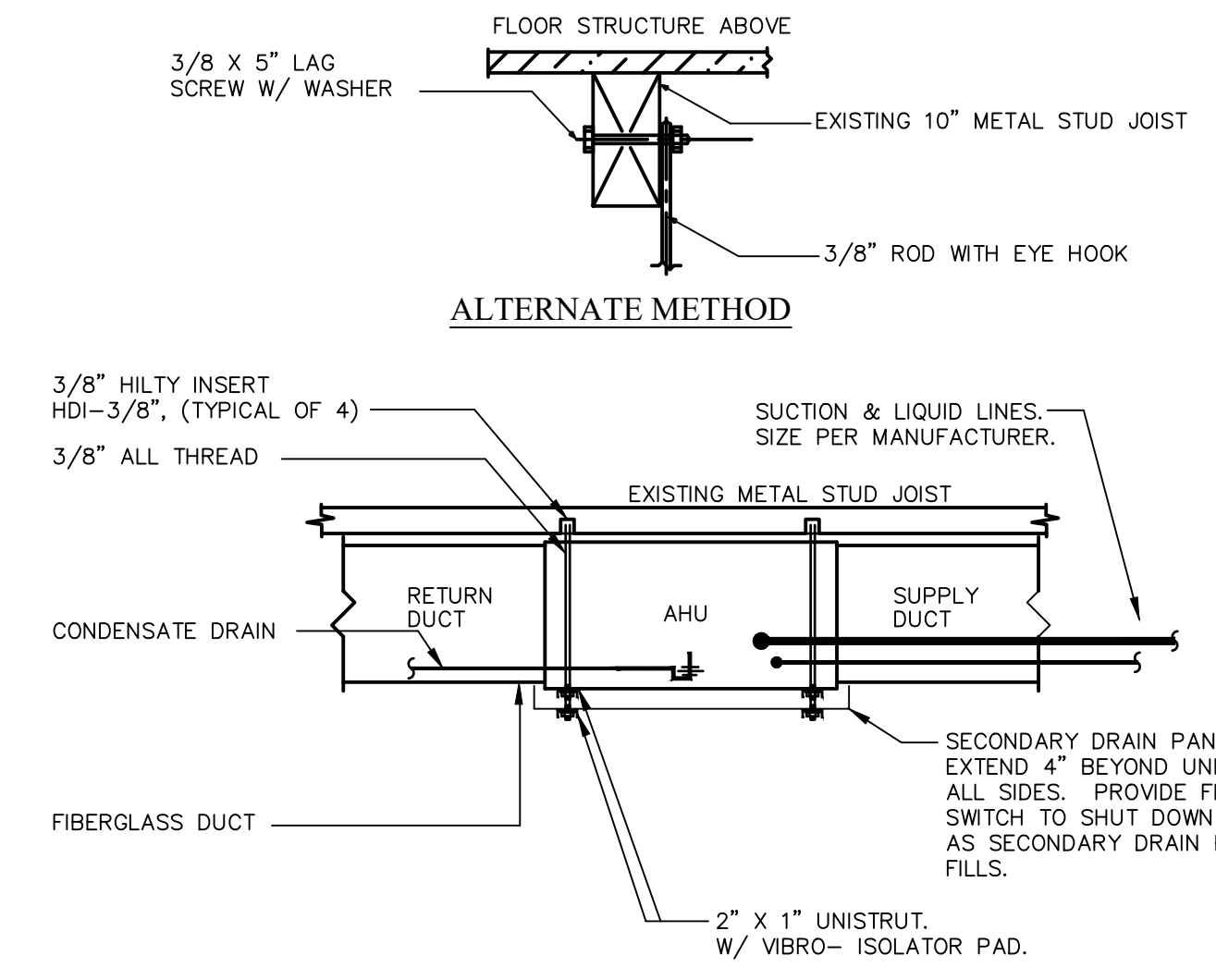
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 Drawing Name

HVAC SCHEDULES

Sheet Number

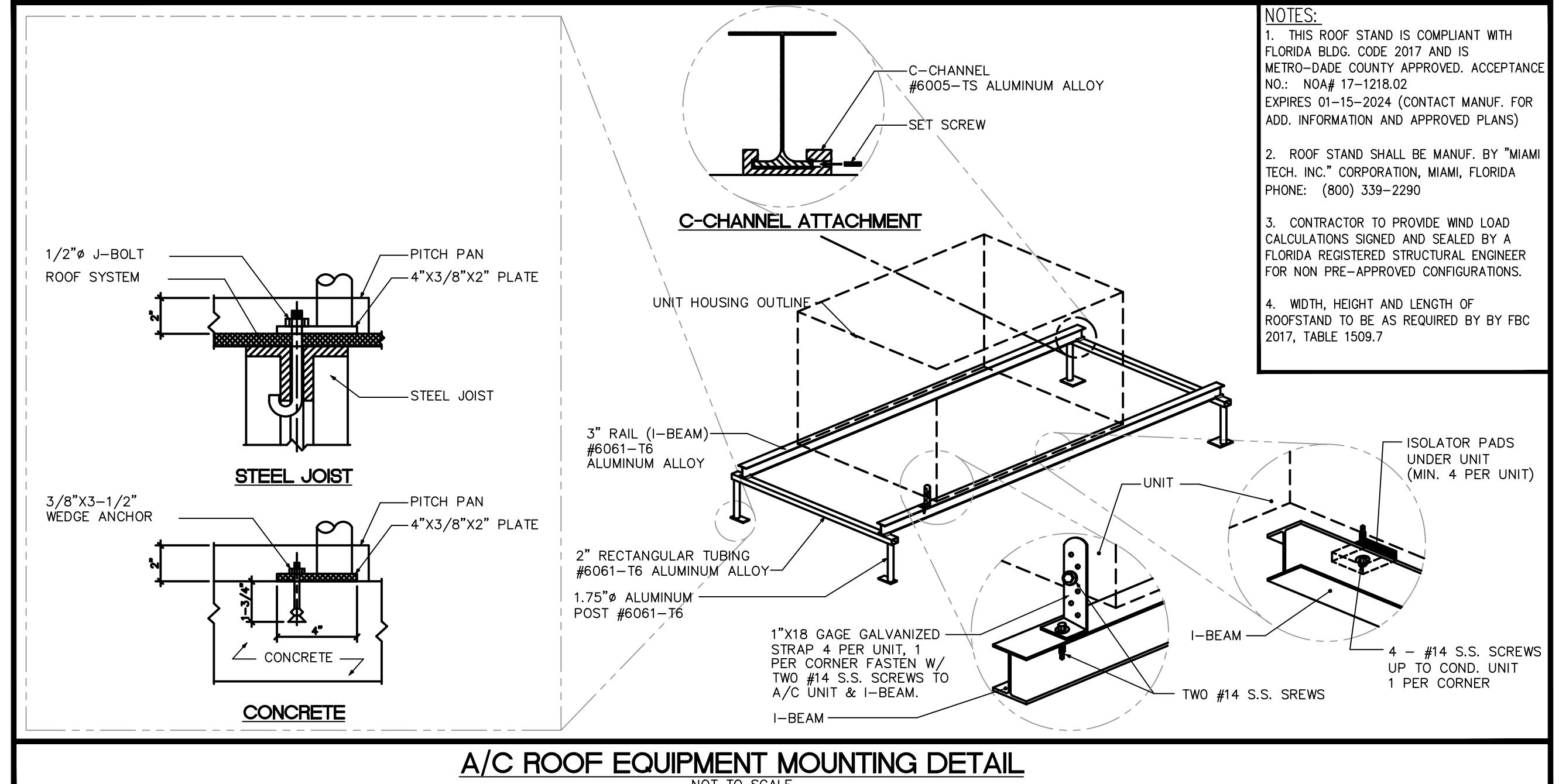
NOTE
DETAIL SHOWN FOR REFERENCE ONLY. CODE COMPLIANCE FOR ATTACHMENT PURPOSES SHALL BE DETERMINED AND VERIFIED BY A LICENSED STRUCTURAL ENGINEER PER FBC 2020, SEC. 1620.



AIR HANDLER MOUNTING DETAIL
NOT TO SCALE

ROOFTOP EQUIP. CLEARANCE TABLE
FLORIDA BUILDING CODE 2017, TABLE 1509.6.5

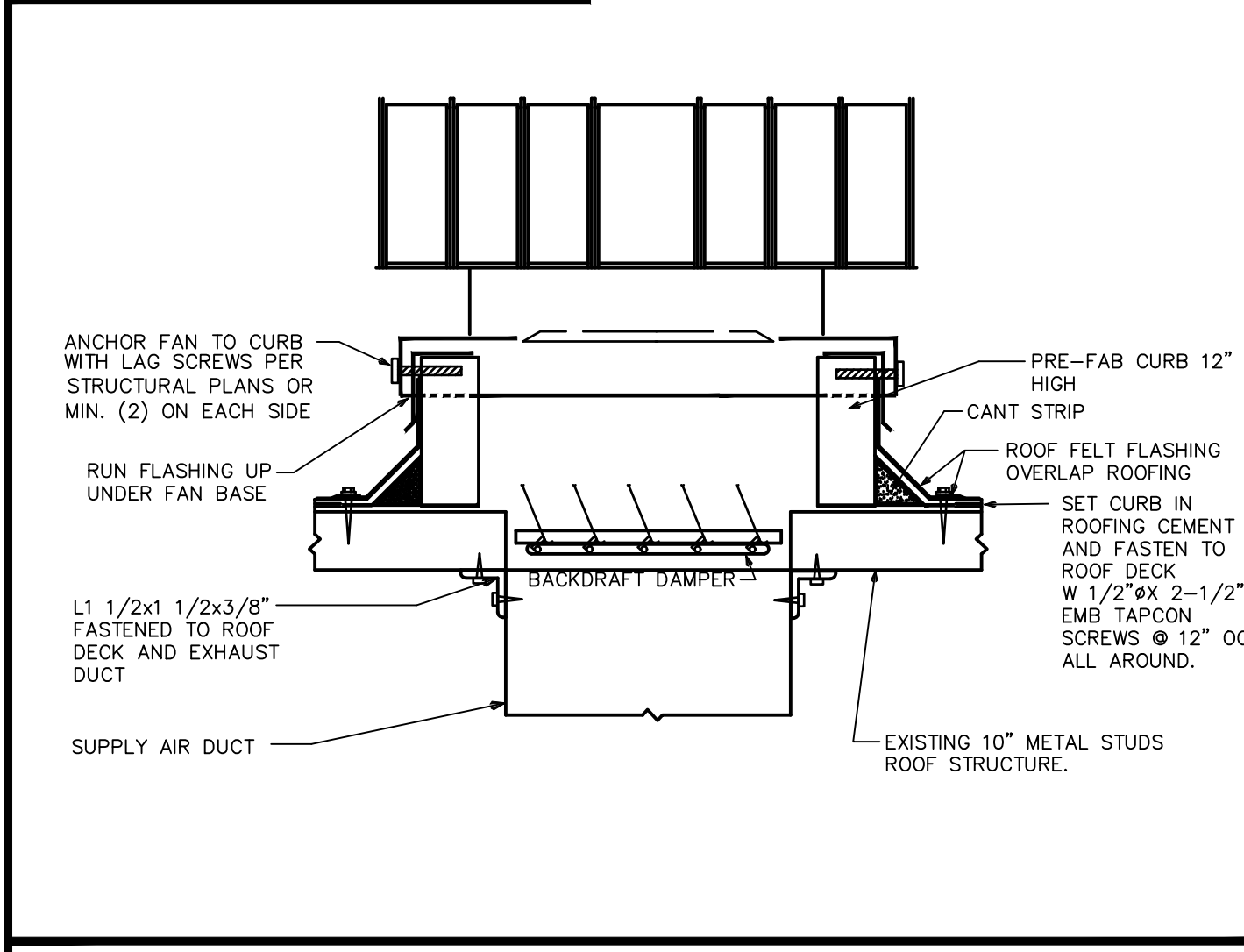
WIDTH OF MECHANICAL UNIT (INCHES)	MIN. CLEARANCE ABOVE ROOF SURFACE (INCHES)
< 24	14
24 < 36	18
36 < 48	24
48 < 60	30
≥ 60	48



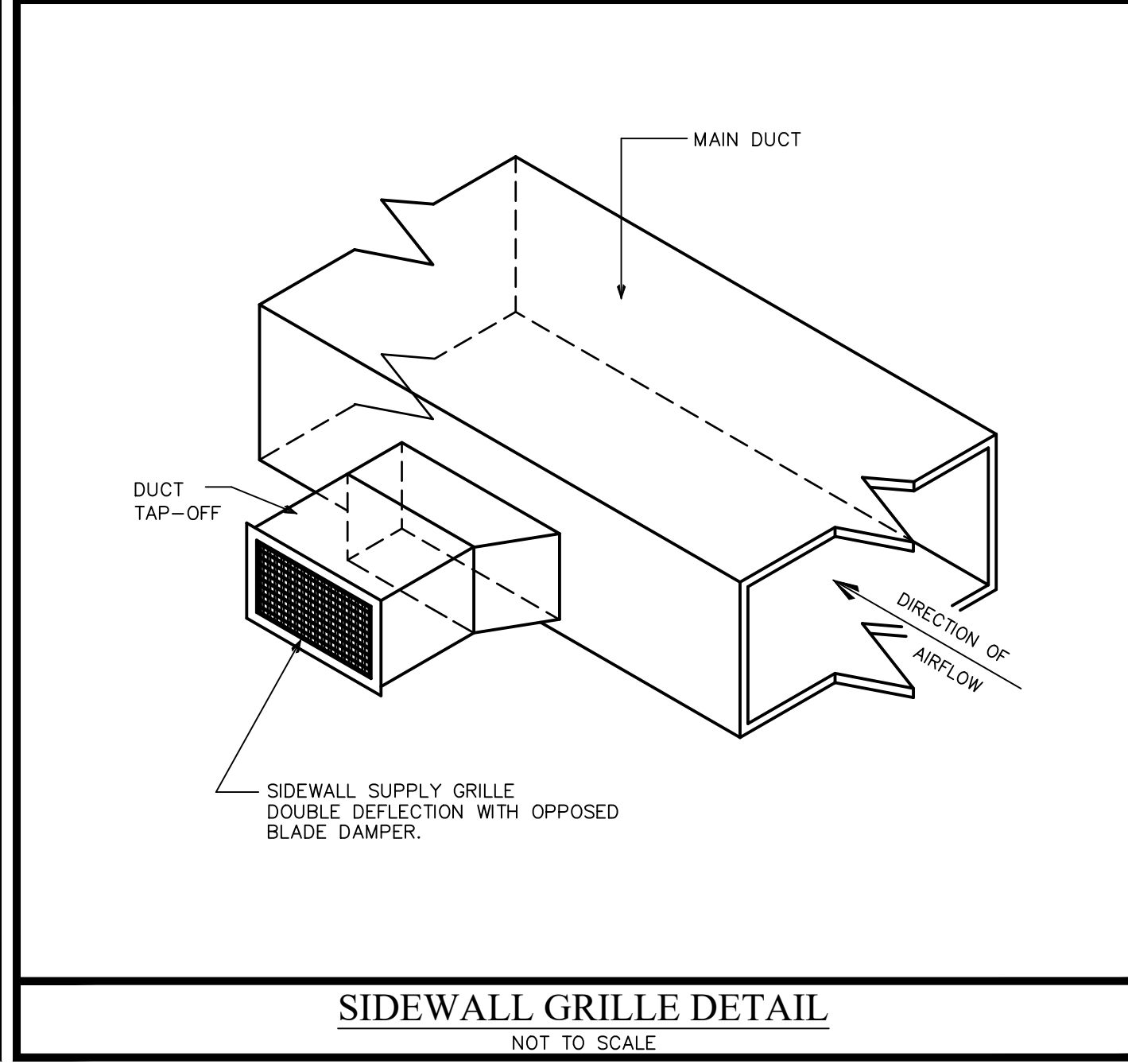
A/C ROOF EQUIPMENT MOUNTING DETAIL
NOT TO SCALE

NOTES:
1. THIS ROOF STAND IS COMPLIANT WITH FLORIDA BLDG. CODE 2017 AND IS METRO-DADE COUNTY APPROVED. ACCEPTANCE NO.: NDA# 17-1218.02 EXPIRES 01-15-2024 (CONTACT MANUF. FOR ADD. INFORMATION AND APPROVED PLANS)
2. ROOF STAND SHALL BE MANUF. BY "MIAMI TECH. INC." CORPORATION, MIAMI, FLORIDA PHONE: (800) 339-2290
3. CONTRACTOR TO PROVIDE WIND LOAD CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER FOR NON PRE-APPROVED CONFIGURATIONS.
4. WIDTH, HEIGHT AND LENGTH OF ROOFSTAND TO BE AS REQUIRED BY FBC 2017, TABLE 1509.7

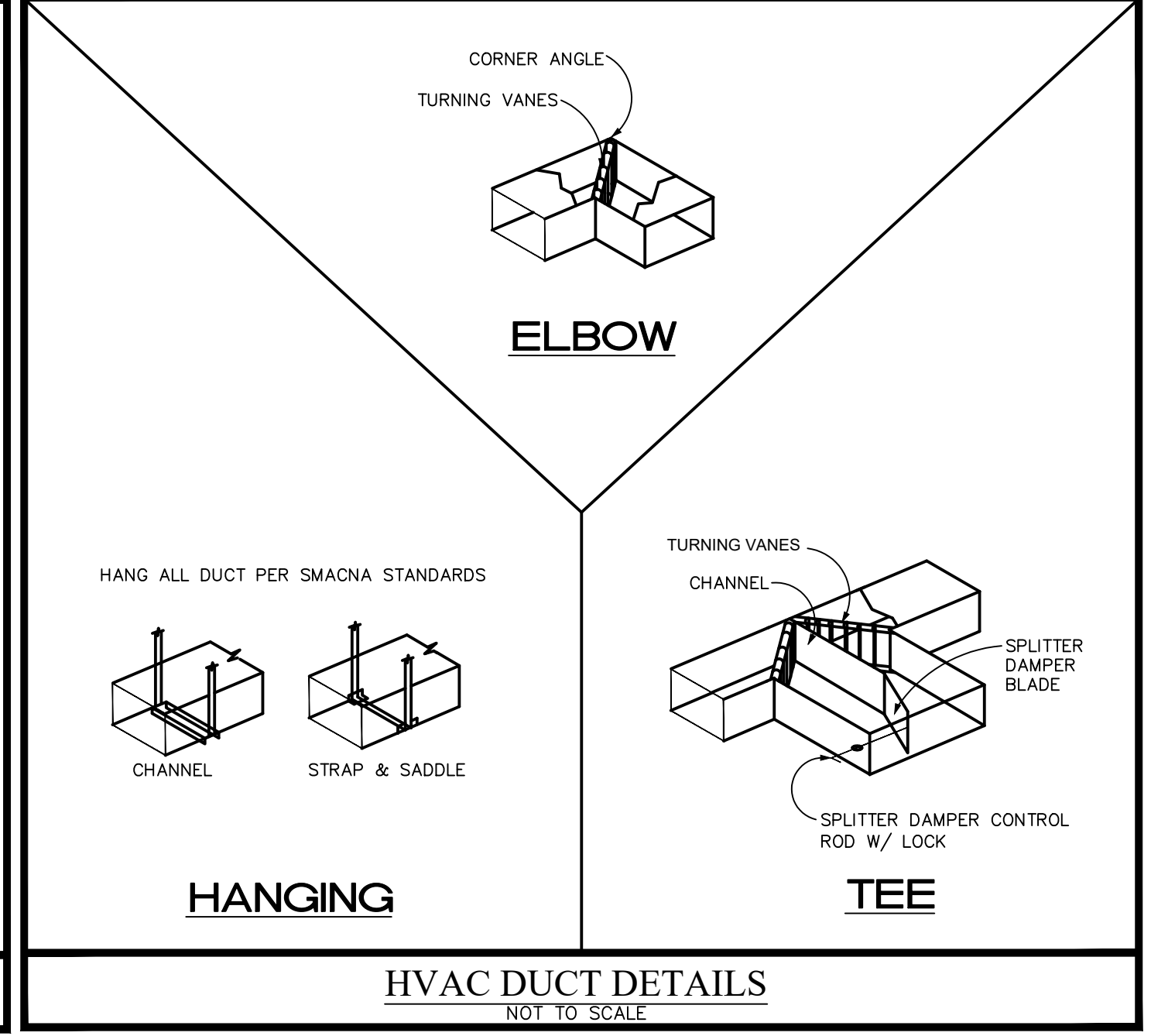
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GRAVITY INTAKE HOOD DETAIL
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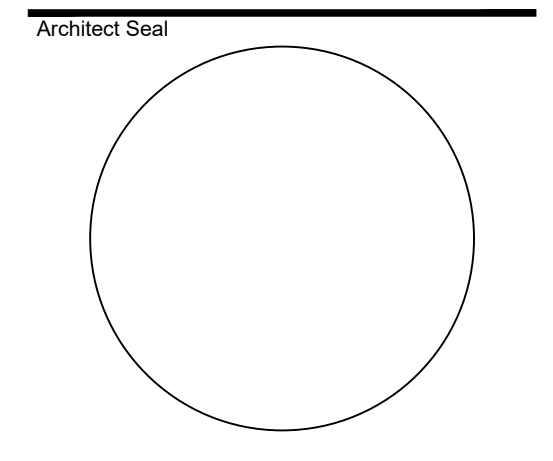


SIDEWALL GRILLE DETAIL
NOT TO SCALE



HVAC DUCT DETAILS
NOT TO SCALE

r-method
r-method, inc. # AA26002053
residential + retail
architectural
1522 SW 13th Court
Pompano Beach, FL 33069
e: info@r-method.net p: 305.914.5355



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HVAC DETAILS

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M-3

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Whitlocke & Williams
CONSULTING ENGINEERS, LLC
18446 OLD PRINCETON LANE,
BOCA RATON, FL 33498
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ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

- 1.01 RELATED DOCUMENTS:
THE GENERAL DOCUMENTS APPLY TO WORK SPECIFIED IN THIS SECTION; CONSULT THEM IN DETAIL FOR APPLICABLE INSTRUCTIONS.
- 1.02 WORK INCLUDED:
PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE ALL WORK OF THIS SECTION WITHOUT RESTRICTING THE GENERALITY OF THE FOREGOING; THE FOLLOWING ITEMS OF WORK ARE INCLUDED:
- A. PERMITS AND FEES
 - B. TEMPORARY POWER AND LIGHT
 - C. TELEPHONE PROVISIONS
 - D. RACEWAYS
 - E. BOXES
 - F. WIRING
 - G. GROUNDING
 - H. WIRING DEVICES AND PLATES
 - I. CONNECTIONS TO EQUIPMENT
 - J. DIRECTORIES AND NAMEPLATES
 - K. TESTING
 - L. CLEANING AND REMOVAL OF RUBBISH

- 1.03 RELATED WORK OF OTHER SECTIONS
- A. CONCRETE AND MASONRY
 - B. PAINTING

- 1.04 QUALITY ASSURANCE
- A. USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR THE PROPER PERFORMANCE OF THE WORK OF THIS SECTION.
 - B. ALL WORK SHALL BE OF THE HIGHEST QUALITY IN CONFORMANCE WITH THE BEST PRACTICES OF THE TRADE AND IN COMPLIANCE WITH ALL GOVERNING CODES.

- 1.05 CODES, PERMITS, FEES, AND REGULATIONS
- A. ALL WORK SHALL BE CARRIED OUT IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND OF THE VARIOUS LOCAL AGENCIES HAVING JURISDICTION.
 - B. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL GOVERNMENTAL TAXES, FEES, DEPOSITS AND OTHER COSTS IN CONNECTION WITH HIS WORK. FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN NECESSARY APPROVALS OF ALL AGENCIES HAVING JURISDICTION; OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION AND APPROVALS FOR HIS WORK AND DELIVER SAME TO THE ARCHITECT BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.

- 1.06 STORAGE OF MATERIALS
- A. STORE MATERIALS AND EQUIPMENT ON THE PREMISES WHERE DIRECTED BY THE OWNER.

- 1.07 OTHER TRADES
- A. BIDDERS SHALL EXAMINE THE SITE AND THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. THEY SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTION AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM.
 - B. THIS CONTRACTOR SHALL COOPERATE TO THE FULLEST WITH ALL OTHER TRADES. HE SHALL PLAN HIS WORK IN SUCH A WAY, AND FURNISH ALL NECESSARY EQUIPMENT AND INFORMATION TO THE OTHER TRADES SO AS NOT TO DELAY ANY OTHER TRADE OR HINDER THE PROGRESS OF THE WORK.

- 1.08 VOLTAGE DROP
1. CONDUCTORS FOR ALL FEEDERS SHALL BE INCREASED FROM SIZES INDICATED ON DRAWINGS TO PREVENT VOLTAGE DROP EXCEEDING 3%.
 2. CONDUCTORS FOR ALL BRANCH CIRCUITS SHALL BE INCREASED FROM SIZES INDICATED ON DRAWINGS TO PREVENT VOLTAGE DROP EXCEEDING 3% FROM THE FURTHEST DEVICE.
 3. DETERMINING CONDUCTOR SIZES SHALL BE BASED ON 80% OF THE BREAKER RATING.
 4. FOR DETERMINATION OF WIRE SIZE FOR BID PURPOSES:
 - * INCREASE WIRE BY 1 WIRE SIZE FOR RUNS 60 FT. TO 100 FT.
 - * INCREASE WIRE BY 2 WIRE SIZES FOR RUNS 100 FT. TO 150 FT.
 - * INCREASE WIRE BY 3 WIRE SIZES FOR RUNS FROM 150 FT. TO 230 FT.

PART 2 - PRODUCTS

- 2.01 GENERAL
- A. ALL MATERIAL, EQUIPMENT, AND INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES:
 1. NATIONAL ELECTRICAL CODE (NFPA-70) - 2017 EDITION
 2. CODE FOR LIFE SAFETY (NFPA-101) - 2018 EDITION
 3. STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72) - 2016 EDITION
 4. UNDERWRITER'S LABORATORIES (UL)
 5. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA)
 6. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
 7. FEDERAL SPECIFICATION (FED. SPEC.)
 8. INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
 9. FLORIDA BUILDING CODE, 2020 EDITION (AS AMENDED)
 10. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
 11. CITY OF BOCA RATON CODE.
 12. OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA)

- 2.02 WIRING DEVICES
- A. FURNISH AND INSTALL QUALITY DEVICES BEARING UL LABEL FOR THE SERVICE AND ELECTRICAL RATING WHERE USED.

- 2.03 RACEWAYS
- A. ALL BRANCH CIRCUIT WIRING SHALL BE IN RIGID GALVANIZED CONDUIT WHERE EXPOSED TO DAMAGE AND PUBLIC. E.M.T. WITHIN BUILDING INTERIOR PROVIDED SAME IS FREE FROM EXPOSURE DAMAGE.
 - B. FLEXIBLE METAL CONDUIT WITH APPROVED TYPE FITTINGS MAY BE USED IN LIMITED LENGTHS FOR CONNECTIONS TO MOTORS AND RECESSED FIXTURES WHERE IT IS NECESSARY TO PROVIDE FLEXIBLE CONNECTIONS. IT MAY ALSO BE USED WHERE THE STRUCTURE PRECLUDES THE USE OF E.M.T. OR CONDUIT.
 - C. ALL RACEWAYS SHALL BE 1/2" MINIMUM SIZE.

- 2.04 OUTLET AND JUNCTION BOXES
- A. CONCEALED OUTLET BOXES FOR WALL BRACKETS, SWITCHES, AND RECEPTACLES SHALL BE A 4" SQUARE GALVANIZED STEEL BOX WITH RAISED COVER OF SUFFICIENT DEPTH TO ACCOMMODATE WALL SURFACE MATERIAL.
 - B. EXPOSED OUTLET BOXES IN DRY LOCATIONS FOR SWITCHES AND RECEPTACLES SHALL BE A 4" CAST BOX WITH HEAVY DUTY COVER.
 - C. BOXES SHALL BE FORMED OF HOT DIPPED GALVANIZED SHEET STEEL WHERE INSTALLED FLUSH. WHERE BOXES ARE INSTALLED EXPOSED THEY SHALL BE OF THE CAST TYPE.

- 2.05 WIRES AND CABLES
- A. PROVIDE AND INSTALL ALL WIRING AND CABLE AS REQUIRED TO CONNECT ALL ELECTRICAL EQUIPMENT AND DEVICES INDICATED ON THE PLANS.
 - B. ALL WIRES #10 GAUGE AND SMALLER SHALL BE SOLID COPPER 75 DEGREE C, AND 600 VOLT INSULATION.
 - C. ALL WIRES #8 GAUGE AND LARGER SHALL BE STRANDED COPPER, 75 DEGREE C, AND 600 VOLT INSULATION.
 - D. FIXTURE WIRES SHALL NOT BE LESS THAN #14 GAUGE, AND SHALL BE TYPE SFF-2.
 - E. UNLESS INDICATED OTHERWISE ALL LIGHT AND POWER CONDUCTORS SHALL BE #12 GAUGE MINIMUM.

- 2.06 PANELBOARDS, SWITCHBOARDS & SERVICE EQUIPMENT
- A. ALL PANELBOARDS/SWITCHBOARDS SHALL BE FURNISHED WITH PLASTIC LAMINATE NAMEPLATES WITH 1/4" ENGRAVED LETTERING FOR PANEL IDENTIFICATION.
 - B. ALL PANELBOARDS/SWITCHBOARDS SHALL BE PROVIDED WITH AN "UP-TO-DATE", TYPE WRITTEN DIRECTORY OF BRANCH CIRCUIT/FEEDER DESIGNATIONS.
 - C. SERVICE EQUIPMENT IN OTHER THAN DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
 - D. ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE OF THE EQUIPMENT.

PART 3 - EXECUTION

- 3.01 WORKMANSHIP
- A. ALL WORK SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER BY COMPETENT MECHANICS THOROUGHLY SKILLED IN THEIR RESPECTIVE TRADES AND IN STRICT ACCORDANCE WITH CODE REQUIREMENTS AND THE RESPECTIVE MANUFACTURERS INSTRUCTIONS.

- 3.02 SUPPORTS
- A. PROVIDE ALL MATERIALS AND LABOR REQUIRED TO ADEQUATELY SUPPORT, BRACE AND STRENGTHEN EQUIPMENT AND MATERIALS FURNISHED AS PART OF THIS WORK.
 - B. ALL RACEWAYS, BOXES, ETC., SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE, INDEPENDENT OF DUCT, PIPING OR OTHER WORK.
 - C. ALL CONDUITS SHALL BE SECURELY AND INDEPENDENTLY SUPPORTED SO THAT NO STRAIN WILL BE TRANSMITTED TO OUTLET BOX AND PULL BOX SUPPORTS, ETC.

- 3.03 BRANCH CIRCUITS
- A. PROVIDE ALL CONDUITS, OUTLETS, BOXES, WIRES, RECEPTACLES, ETC., FOR A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS.
 - B. BRANCH CIRCUIT CONDUCTORS SHALL BE IDENTIFIED, AT ALL JUNCTIONS OR PULL POINTS, BY EITHER SEPARATE COLOR CODING, MARKING TAPE, TAGGING, OR OTHER APPROVED MEANS.
 - C. CONTRACTOR SHALL CAREFULLY CHECK THE MECHANICAL DRAWINGS AND SPECIFICATIONS TO ESTABLISH THE EXTENT OF POWER AND CONTROL WIRING TO BE PROVIDED. CONTROL WIRING SHALL BE THE RESPONSIBILITY OF OTHERS.

- 3.04 GROUNDING
- A. THE ELECTRICAL SYSTEMS SHALL BE COMPLETELY AND EFFECTIVELY GROUNDING AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. ALL GROUND SYSTEMS AND CONNECTIONS SHALL BE MECHANICALLY SECURE AND ELECTRICALLY CONTINUOUS.

- 3.05 LOCATION OF OUTLETS AND ELECTRICAL EQUIPMENT
- A. THE PLANS SHOW CONDITIONS AS ACCURATELY AS POSSIBLE BUT DO NOT NECESSARILY SHOW ALL THE FITTINGS, ETC., NECESSARY TO SUIT BUILDING CONDITIONS. LOCATIONS OF OUTLETS, APPLIANCES, ETC., ARE APPROXIMATE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATIONS IN ORDER TO MAKE THEM FIT WITH THE ARCHITECTURAL DETAILS AND ALSO INSTRUCTIONS FROM THE ARCHITECT/ARCHITECT'S REPRESENTATIVE ON THE JOB SITE.
 - B. BEFORE INSTALLATION OF CONDUIT FOR RECEPTACLES, THE OWNER/ARCHITECT SHALL RESERVE THE RIGHT TO MOVE EACH OUTLET LOCATION TO BETTER ADAPT THEM FOR USAGE. PRIOR TO INSTALLATION, WITHIN A DISTANCE OF THREE FEET AS PRESENTLY INDICATED, AT NO ADDITIONAL COST TO THE OWNER.

- C. UNLESS INDICATED OTHERWISE ON THE DRAWINGS, ALL DEVICES SHALL BE MOUNTED AT A HEIGHT TO CONFORM TO THE AMERICAN DISABILITY ACT.
- D. THE CONTRACTOR SHALL CAREFULLY CHECK WITH OTHER CONTRACTORS TO COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT WITH WORK OF OTHER TRADES.
- F. ALL ELECTRICAL INSTALLATIONS IN AREA OF NEW CONSTRUCTION MUST BE FLUSH MOUNTED.

- 3.06 CLEANING AND REMOVAL OF RUBBISH
- A. CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ALL WASTE, SURPLUS MATERIALS, RUBBISH OR DEBRIS WHICH IS CAUSED BY HIS EMPLOYEES OR RESULTING FROM HIS WORK.
 - B. AFTER ALL EQUIPMENT AND DEVICES HAVE BEEN INSTALLED, REMOVE ALL LABELS, STICKERS, STAINS, TEMPORARY COVERS, ETC. IDENTIFICATION PLATES ON ALL EQUIPMENT

- 3.07 SUBMITTALS
- A. SUBMIT ELECTRONIC (PDF) COPIES OF SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, AUTOMATIC LIGHTING CONTROL SYSTEM FUNCTIONAL TESTING RESULTS AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE ENGINEER/ARCHITECT.
 - B. CONTROLS FOR AUTOMATIC LIGHTING SYSTEMS SHALL BE FUNCTIONALLY TESTED AND SHALL COMPLY WITH THE FLORIDA BUILDING CODE, SECTION C408.3. PRIOR TO FINAL INSPECTION, THE RESULTS SHALL BE PROVIDED TO THE ENGINEER.
 - C. WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:
 1. A SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
 2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
 - D. OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
 1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
 2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTING MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
 3. NAMES AND ADDRESSES OF ATLEAST ONE QUALIFIED SERVICE AGENCY.

ELECTRICAL SHEET INDEX	
SHEET NO.	SHEET DESCRIPTION
E-0	ELECTRICAL SPECIFICATIONS & SHEET INDEX
E-1	LIGHTING PLAN
E-2	POWER PLAN
E-2-1	ELECTRICAL ROOF PLAN
E-3	RISER DIAGRAM & PANEL SCHEDULE

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 DRAWING NO: 2021-110 DATE: 11/9/2021

ENGINEER OF RECORD

MARTIN WHITELOCKE
 FLORIDA LICENSE NO. 53899

11/8/2021
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Whitelocke & Williams
 CONSULTING ENGINEERS, LLC

18446 OLD PRINCETON LANE,
 BOCA RATON, FL 33498
 TEL: 561-703-0625
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 EMAIL: INFO@ANDWICE.COM
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Architect Seal

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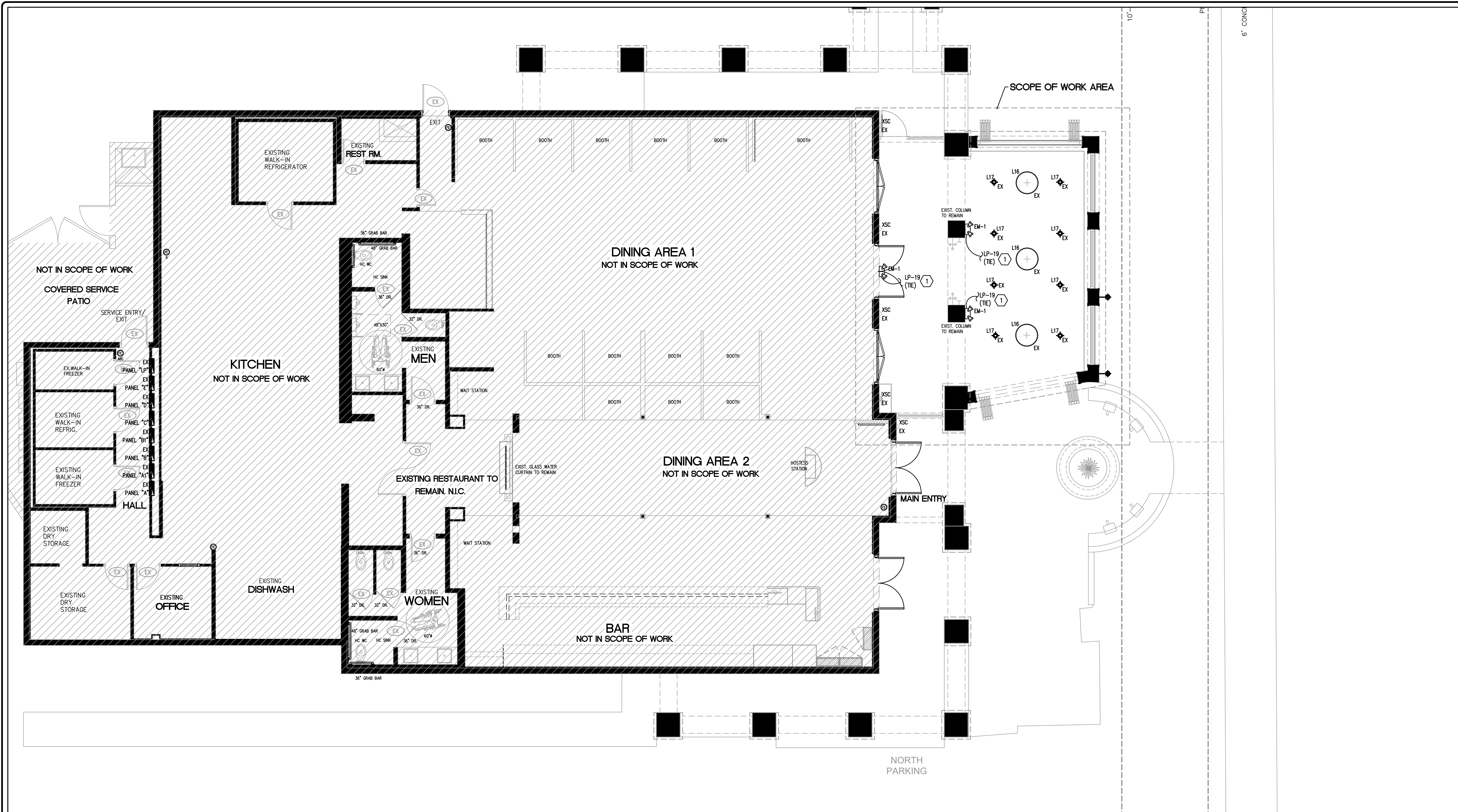
Project Number
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Date
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Drawing Name

ELECTRICAL SPECIFICATIONS & SHEET INDEX

Sheet Number



LIGHTING FIXTURE SCHEDULE							
SYMBOL	TYPE	DESCRIPTION	INPUT WATTS	MANUFACTURER/ MODEL #	LAMP		REMARKS
					QTY	TYPE	
(+)	L16	EXISTING PENDANT FIXTURE	40.0	EX/	2	20W LED	UNV (1)
(+)	L17	EXISTING DOWNLIGHT	20.0	EX/	1	LED	UNV (1)
(+)	XSC	EXISTING WALL SCONCE UL LISTED FOR WET LOCATION	20.0	EX/	1	LED	UNV (1)
(+)	EM-1	DUAL HEAD EMERGENCY LIGHT WITH EMERGENCY BATTERY PACK	2.0	ELM4L LITHONIA LIGHTING/	-	LED	UNV

NOTES:
 (1) EXISTING LAMPS SHALL BE REPLACED WITH LED TYPE AS REQUIRED. FIELD VERIFY EXISTING TYPE REQUIRED.

- GENERAL NOTES**
- (A) CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS/EMERGENCY BATTERY PACKS IN EMERGENCY LIGHT FIXTURES AHEAD OF LIGHTING CONTROL DEVICE.
 - (B) CLEAN AND RE-LAMP ALL EXISTING/RELOCATED LIGHT FIXTURES WITH LED LAMPS.
 - (C) UNO, ALL LIGHT FIXTURES IN THE PROJECT AREA. MAINTAIN EXISTING BRANCH CIRCUIT AND LIGHTING CONTROLS. TRACE AND VERIFY EXISTING BRANCH CIRCUIT (LP-19) PRIOR TO THE START OF CONSTRUCTION.

- SHEET NOTES**
- (1) INTERCEPT EXISTING BRANCH CIRCUIT IN NEW JUNCTION BOX ABOVE FINISHED CEILING AND EXTEND TO NEW LIGHT FIXTURES AS INDICATED. RECONNECT FOR OPERATION.

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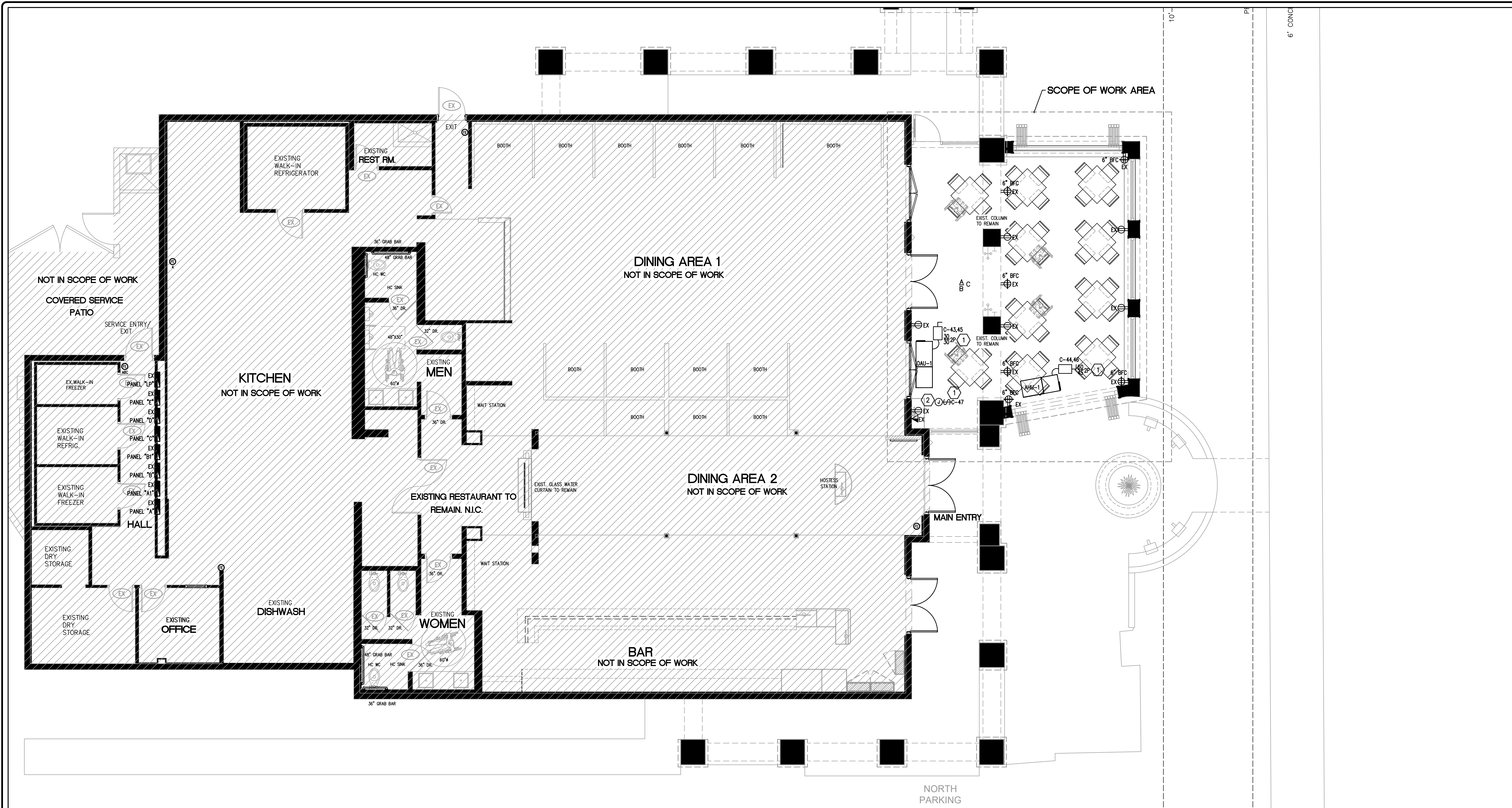
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 Date 07 / 09 / 2021
 Drawing Name
 LIGHTING PLAN
 Sheet Number



SHEET NOTES

1 MOUNT DISCONNECT ON ADJACENT TO EQUIPMENT SERVED. LOCATE DISCONNECT TO PROVIDE CLEARANCE AND ACCESS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.

2 PROVIDE JUNCTION BOX FOR ELECTRICAL CONNECTION TO MOTORIZED DAMPER. FIELD COORDINATE EXACT LOCATION WITH MECHANICAL PRIOR TO ROUGH IN.

GENERAL NOTES

A UNO, ALL A/C UNITS AND THEIR ASSOCIATED DISCONNECTS AND BRANCH CIRCUITS ARE EXISTING TO REMAIN. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES ENCOUNTERED.

POWER PLAN 3/16" = 1'-0"

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18446 OLD PRINCETON LANE,
 BOCA RATON, FL 33498
 TEL: 561-703-0625
 FAX: 360-851-8720
 EMAIL: INFO@ANDWICE.COM
 CERTIFICATE OF AUTHORIZATION # 29076

r-method
 r-method, inc. # AA26002053
 residential + retail
 architectural
 1522 SW 13th Court
 Pompano Beach, FL 33069
 e: info@r-method.net p: 305.914.5355

Architect Seal

JOSE RUBEN JIMENEZ
 FLORIDA REGISTERED ARCHITECT
 No. AR 94903
 NOT VALID UNLESS IT BEARS SEAL AND ORIGINAL SIGNATURE

Submittal / Revision No. date
 DD1 07 / 09 / 21
 FOR ENGINEERS 10 / 13 / 21

PROPOSED OUTDOOR DINING PATIO
 ENCLOSURE AT:
FLASHBACK DINER
 1424 N. FEDERAL HIGHWAY
 BOCA RATON, FLORIDA 33432

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Project Number 21-0603
 Date 07 / 09 / 2021
 Drawing Name
POWER PLAN
 Sheet Number

E-2

SOUTH
PARKING

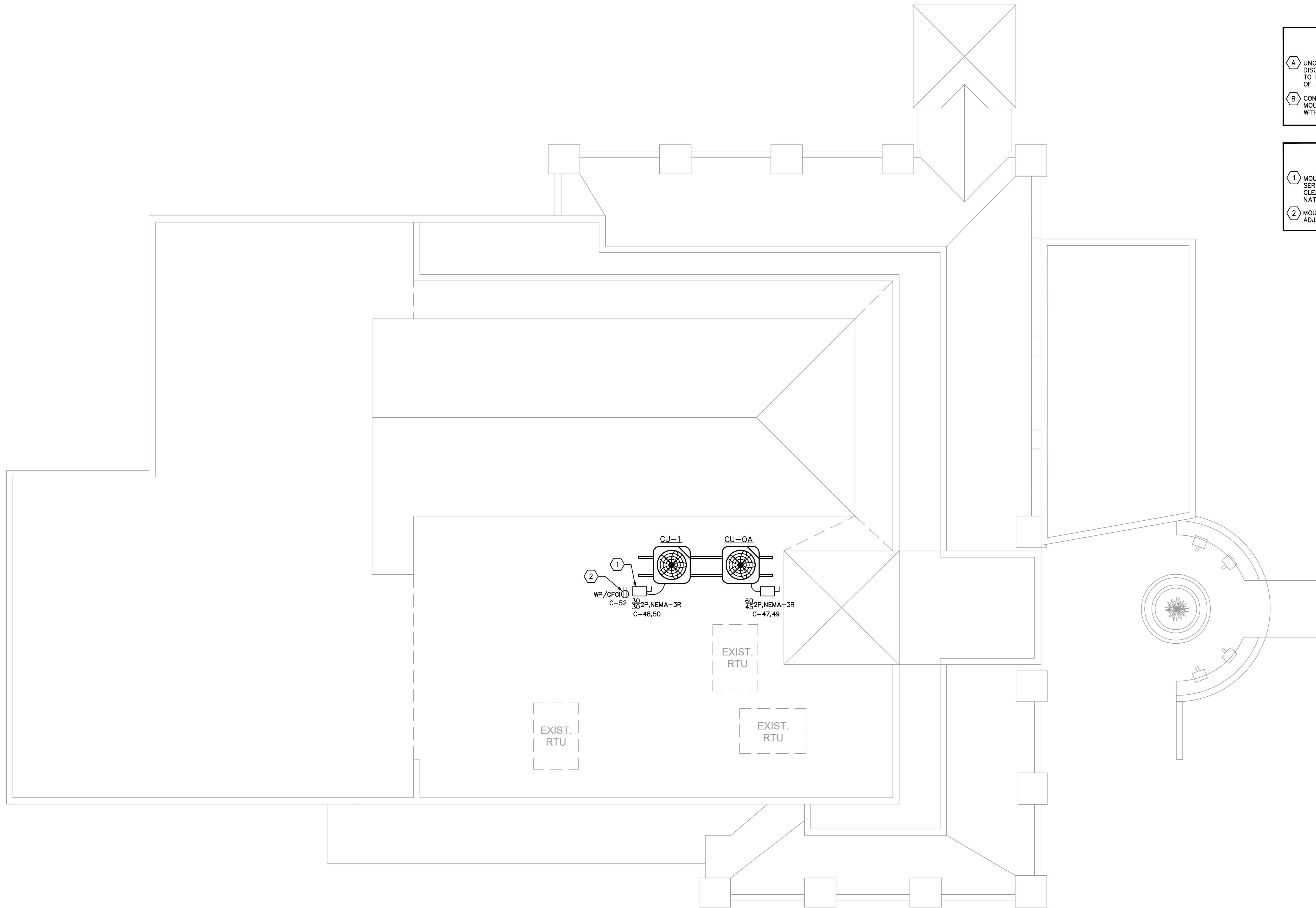
NORTH
PARKING

GENERAL NOTES

- A UNO. ALL A/C UNITS AND THEIR ASSOCIATED DISCONNECTS AND BRANCH CIRCUITS ARE EXISTING TO REMAIN. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES ENCOUNTERED.
- B CONTRACTOR SHALL FIELD COORDINATE THE EXACT MOUNTING LOCATION OF THE CONDENSING UNITS WITH FIELD CONDITIONS AND BUILDING OWNER.

SHEET NOTES

- 1 MOUNT DISCONNECT ON/ADJACENT TO EQUIPMENT SERVED. LOCATE DISCONNECT TO PROVIDE CLEARANCE AND ACCESS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- 2 MOUNT RECEPTACLE TO UNISTRUT CHANNEL RACK ADJACENT TO HVAC UNIT.



r-method
r-method, inc. # AA26002053
residential + retail
architectural
1522 SW 13th Court
Pompano Beach, FL 33069
elinfo@r-method.net p 305.914.5355

Architect Seal

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FLORIDA REGISTERED ARCHITECT
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Project Number 21-0603
Date 07 / 09 / 2021
Drawing Name

**ELECTRICAL
ROOF PLAN**

Sheet Number

E-2-1

ELECTRICAL ROOF PLAN 3/16" = 1'-0"

DRAWING ISSUED FOR: PERMIT
AWAC# 2021-110 DATE: 11/9/2021

ENGINEER OF RECORD
MARTIN WHITELOCKE
FLORIDA LICENSE NO. 53899
11/8/2021
DATE

Whitelocke & Williams
CONSULTING ENGINEERS, LLC
18446 OLD PRINCETON LANE,
BOCA RATON, FL 33498
TEL: 561-703-0625
FAX: 360-851-8720
EMAIL: INFO@ANDWICE.COM
CERTIFICATE OF AUTHORIZATION # 29076

ELECTRICAL SYMBOLS

ABBREVIATIONS

AC ABOVE COUNTER
 AFF ABOVE FINISHED FLOOR.
 BFC BELOW FINISHED CEILING.
 GFCI GROUND FAULT CIRCUIT INTERRUPTER.
 GND GROUND.
 EX EXISTING TO REMAIN
 RE RELOCATED
 NEC NATIONAL ELECTRICAL CODE.
 NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
 T/S ASTRONOMIC TIME SWITCH
 VP VAPOR PROOF
 UON UNLESS OTHERWISE NOTED.
 WP WEATHER PROOF.

SWITCHES

20 AMPERE SWITCH; MOUNTED 48" AFF UON; SINGLE POLE UON;
 LOWER CASE LETTER, WHEN PRESENT, INDICATES OUTLETS CONTROLLED.
 * ABBREVIATIONS FOR SWITCH OUTLETS
 3 3-WAY SWITCH
 4 4-WAY SWITCH
 K KEY OPERATED SWITCH
 D DIMMER SWITCH

RECEPTACLES

⊖ GROUNDED DUPLEX RECEPTACLE (NEMA 5-20R); MOUNTED 18" AFF UON; NUMBER INDICATES CIRCUIT.
 ⊕ GROUNDED DUPLEX RECEPTACLE (NEMA 5-20R); MOUNTED 42" ABOVE FINISHED FLOOR.

PANELS AND MISC.

▭ PANELBOARD
 ▭^A/_B/_C FUSED SAFETY (DISCONNECT) SWITCH. A=FRAME SIZE, B=FUSE SIZE, C=#OF POLES.
 ⊙ JUNCTION BOX
 ▽ TELEPHONE AND DATA OUTLET - WALL PROVIDE 4X4 OUTLET BOX IN WALL WITH 3/4" CONDUIT TO 6" ABOVE CEILING WITH PULL WIRE. WRING BY OTHERS.

PANEL NOTES

- INTERCEPT EXISTING BRANCH CIRCUIT IN NEW JUNCTION BOX AND EXTEND TO NEW LOCATION OF PANEL AS INDICATED ON FLOOR PLAN. RECONNECT CIRCUIT FOR OPERATION.
- PROVIDE CIRCUIT BREAKER WITH CLASS 'A' (4-6ma) GROUND FAULT PROTECTION.
- EXISTING BRANCH CIRCUIT AND CIRCUIT BREAKER TO REMAIN.
- EXISTING BRANCH CIRCUIT WITH LOAD MODIFIED FOR THIS PROJECT.

BRANCH CIRCUIT PANEL "C" SCHEDULE

LOAD		BRANCH CIRCUIT				PHASE A			PHASE B			PHASE C			BRANCH CIRCUIT				LOAD DESCRIPTION		LOAD
		WIRE	GND	COND	TRIP	CKT	KVA	KVA	KVA	CKT	TRIP	COND	GND	WIRE							
3.0	AC #3	3 #8	1 #10	3/4"	50/3	1	3.2			2	20	1/2"	1 #12	2 #12						ROOF SERVICE REC	0.2
3.0	EXISTING LOAD					5				6	20	1/2"	1 #12	2 #12						FOOD WARMER	1.0
0.2	EXISTING LOAD	2 #12	1 #12	1/2"	20	7	0.4			8	20	1/2"	1 #12	2 #12						EXTERIOR LTS	0.4
4.0	AC #4	3 #8	1 #10	3/4"	60/3	11	13.0			10	20	1/2"	1 #12	2 #12						EXISTING LOAD	0.2
4.0	EXISTING LOAD					13				14										PANEL A	12.0
0.2	HOSTESS REC	FLON SIG	1 #12	1/2"	20	15				16	20	1/2"	1 #12	2 #12						LIGHTS/EM	0.8
1.2	PYLON SIGN	2 #10	1 #10	3/4"	30	17				18	20	1/2"	1 #12	2 #12						EMPLOYEE RESTRM LTGEM	0.3
0.5	PARKING LOT LIGHTING	2 #8	1 #10	3/4"	40/2	19	1.0			20	20/2	1/2"	1 #12	2 #12						FOOD WARMER	0.5
0.4	KITCHEN REC	2 #12	1 #12	1/2"	20	23				24	20/2	1/2"	1 #12	2 #12						EXISTING LOAD	0.5
0.4	WAITRESS STATION REC	2 #12	1 #12	1/2"	20	25	0.9			26										EXISTING LOAD	0.5
0.5	NORTH SIDE PARKING LOT LTS	2 #12	1 #12	1/2"	20	27				28	20/2	1/2"	1 #12	2 #12						EXISTING LOAD	0.5
0.5	NORTH SIDE PARKING LOT LTS	2 #10	1 #10	3/4"	30/2	29				30										EXISTING LOAD	0.5
0.4	COVE LIGHTS	2 #12	1 #12	1/2"	20	31	0.7			32	20	1/2"	1 #12	2 #12						LUTRON SYSTEM	0.2
0.4	BAR REC	2 #12	1 #12	1/2"	20	33				34	20	1/2"	1 #12	2 #12						OIL DISPLAY TANK	0.2
0.4	UNDER BAR RECEP	2 #12	1 #12	1/2"	20	35				36	20	1/2"	1 #12	2 #12						EXTERIOR COOLER	0.4
0.4	EXISTING LOAD	2 #10	1 #10	3/4"	25	38	0.8			38	20	1/2"	1 #12	2 #12						EXTERIOR COOLER	0.4
0.5	MIXER	2 #12	1 #12	1/2"	20	41				42	20	1/2"	1 #12	2 #12						WATER FALL	0.4
3.0	OAU-1	2 #10	1 #10	3/4"	30/2	43	7.6			44	45/2	3/4"	1 #10	2 #8						AHU-1	4.6
3.0	EXISTING LOAD					45				46										EXISTING LOAD	4.6
2.9	CU-OA	2 #8	1 #10	3/4"	45/2	47				48	30/2	3/4"	1 #10	2 #10						CU-1	1.8
0.2	MOTORIZED DAMPER	2 #12	1 #12	1/2"	20	51				52										SPACE	0.0
0.0	SPACE					53				54										SPACE	0.0

NOTES:
 Continuous loads are shown at 125%.
 () Denotes Non-Coincident Load.
 ** Denotes load shown is manufacturer's min. circuit ampacity.

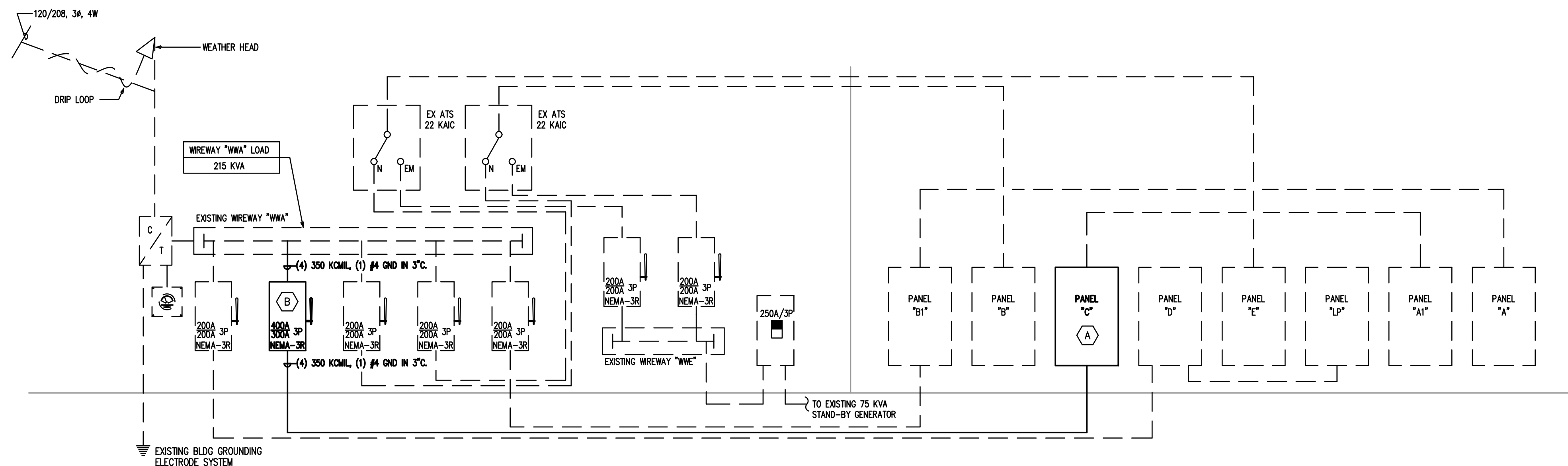
34.2	32.0	31.1	KVA PER PHASE
285	267	259	AMPS PER PHASE
			TOTAL KVA
			TOTAL AMPS

EX BRANCH CIRCUIT PANEL "L1A" SCHEDULE

LOAD		BRANCH CIRCUIT				PHASE A			PHASE B			PHASE C			BRANCH CIRCUIT				LOAD DESCRIPTION		LOAD
		WIRE	GND	COND	TRIP	CKT	KVA	KVA	KVA	CKT	TRIP	COND	GND	WIRE							
0.2	RECEP	EX	EX	EX	EX	20	1	0.6		2	20	EX	EX	EX	EX	EX	EX	EX	EX	LTS KITCHEN HALL EM	0.4
1.0	FOOD WARMER	EX	EX	EX	EX	20	3	1.8		4	20	EX	EX	EX	EX	EX	EX	EX	EX	LIGHTS REAR	0.8
1.0	FOOD WARMER	EX	EX	EX	EX	20	5			6	20	EX	EX	EX	EX	EX	EX	EX	EX	LIGHTING KITCHEN	0.5
0.2	KITCHEN REC	EX	EX	EX	EX	20	7	0.7		8	20	EX	EX	EX	EX	EX	EX	EX	EX	LIGHTS KITCHEN/EM	0.5
0.2	KITCHEN REC	EX	EX	EX	EX	20	9			10	20	EX	EX	EX	EX	EX	EX	EX	EX	SPARE	0.0
0.2	REC MEN BATH	EX	EX	EX	EX	20	11			12	20	EX	EX	EX	EX	EX	EX	EX	EX	REC KITCHEN ISLE	0.2
0.2	DIMMER PANEL	EX	EX	EX	EX	20	13	0.6		14	20	EX	EX	EX	EX	EX	EX	EX	EX	REC OUTSIDE	0.4
0.4	REC REAR PATIO	EX	EX	EX	EX	20	15			16	20	EX	EX	EX	EX	EX	EX	EX	EX	DIMMER PANEL	0.2
0.2	EXISTING LOAD	EX	EX	EX	EX	20	17			18	20	EX	EX	EX	EX	EX	EX	EX	EX	REC PATIO	0.4
1.5	PATIO LTS	2 #12	1 #12	1/2"	20	19	1.9			20	20	EX	EX	EX	EX	EX	EX	EX	EX	DIMMER PANEL/BATH	0.4
0.5	EXISTING LOAD	EX	EX	EX	EX	20	21			22	20	EX	EX	EX	EX	EX	EX	EX	EX	DIMMER PANEL/EM	0.4
1.0	DIMMER PANEL	EX	EX	EX	EX	30/3	23			24	20	EX	EX	EX	EX	EX	EX	EX	EX	RECEP WOMEN BATH	0.2
1.0	DIMMER PANEL	EX	EX	EX	EX	30/3	25	1.5		26	20	EX	EX	EX	EX	EX	EX	EX	EX	RECEP DINING RM	0.5
1.0	DIMMER PANEL	EX	EX	EX	EX	30/3	27			28	20	EX	EX	EX	EX	EX	EX	EX	EX	RECEP OFFICE	0.4
0.0	SPARE	-	-	-	-	20	29			30	20	EX	EX	EX	EX	EX	EX	EX	EX	RECEP KITCHEN	0.5
0.5	EXISTING LOAD	EX	EX	EX	EX	20	31	1.0		32	20	EX	EX	EX	EX	EX	EX	EX	EX	RECEP KITCHEN HALL	0.5
0.5	EXISTING LOAD	EX	EX	EX	EX	20	33			34	20	EX	EX	EX	EX	EX	EX	EX	EX	IG RECEP	0.2
0.5	EXISTING LOAD	EX	EX	EX	EX	20	35			36	20	EX	EX	EX	EX	EX	EX	EX	EX	IG RECEP	0.2
0.5	EXISTING LOAD	EX	EX	EX	EX	20	37	0.7		38	20	EX	EX	EX	EX	EX	EX	EX	EX	IG RECEP	0.2
0.0	SPARE	-	-	-	-	20/2	39			40	30	EX	EX	EX	EX	EX	EX	EX	EX	RECEP OFFICE	0.5
0.0	SPARE	-	-	-	-	20/2	41			42	15	EX	EX	EX	EX	EX	EX	EX	EX	AUDIO RACK	0.4

NOTES:
 Continuous loads are shown at 125%.
 () Denotes Non-Coincident Load.
 ** Denotes load shown is manufacturer's min. circuit ampacity.

7.0	6.0	5.3	KVA PER PHASE
59	50	44	AMPS PER PHASE
			TOTAL KVA
			TOTAL AMPS



EXISTING POWER RISER DIAGRAM

NOT TO SCALE

RISER NOTES

- EXISTING PANEL SHALL BE REPLACED WITH NEW AT EXISTING LOCATION. MAINTAIN ALL EXISTING BRANCH CIRCUITS AND EXTEND TO NEW PANEL AS REQUIRED. RECONNECT FOR OPERATION.
- PROVIDE NEW OVERCURRENT PROTECTION DEVICE AT EXISTING SPACE AND CONNECT NEW BRANCH CIRCUIT FOR OPERATION.

LEGEND

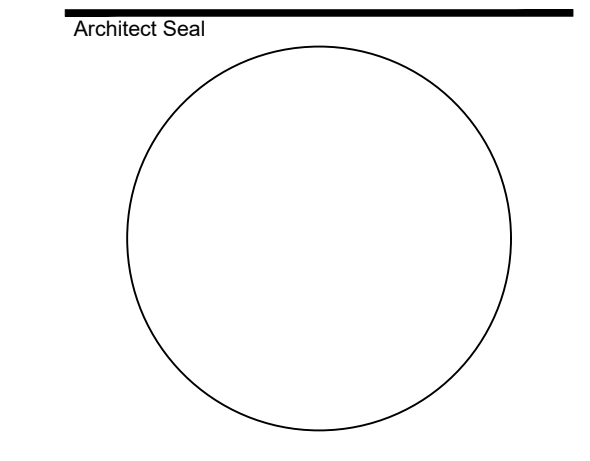
--- EXISTING TO REMAIN
 --- NEW

DRAWING ISSUED FOR: PERMIT
 WANCE# 2021-110 DATE: 11/9/2021

ENGINEER OF RECORD
 MARTIN WHITELOCKE
 FLORIDA LICENSE NO. 53899
 11/9/2021
 DATE

Whitelocke & Williams
 CONSULTING ENGINEERS, LLC
 18446 OLD PRINCETON LANE,
 BOCA RATON, FL 33498
 TEL: 561-703-0625
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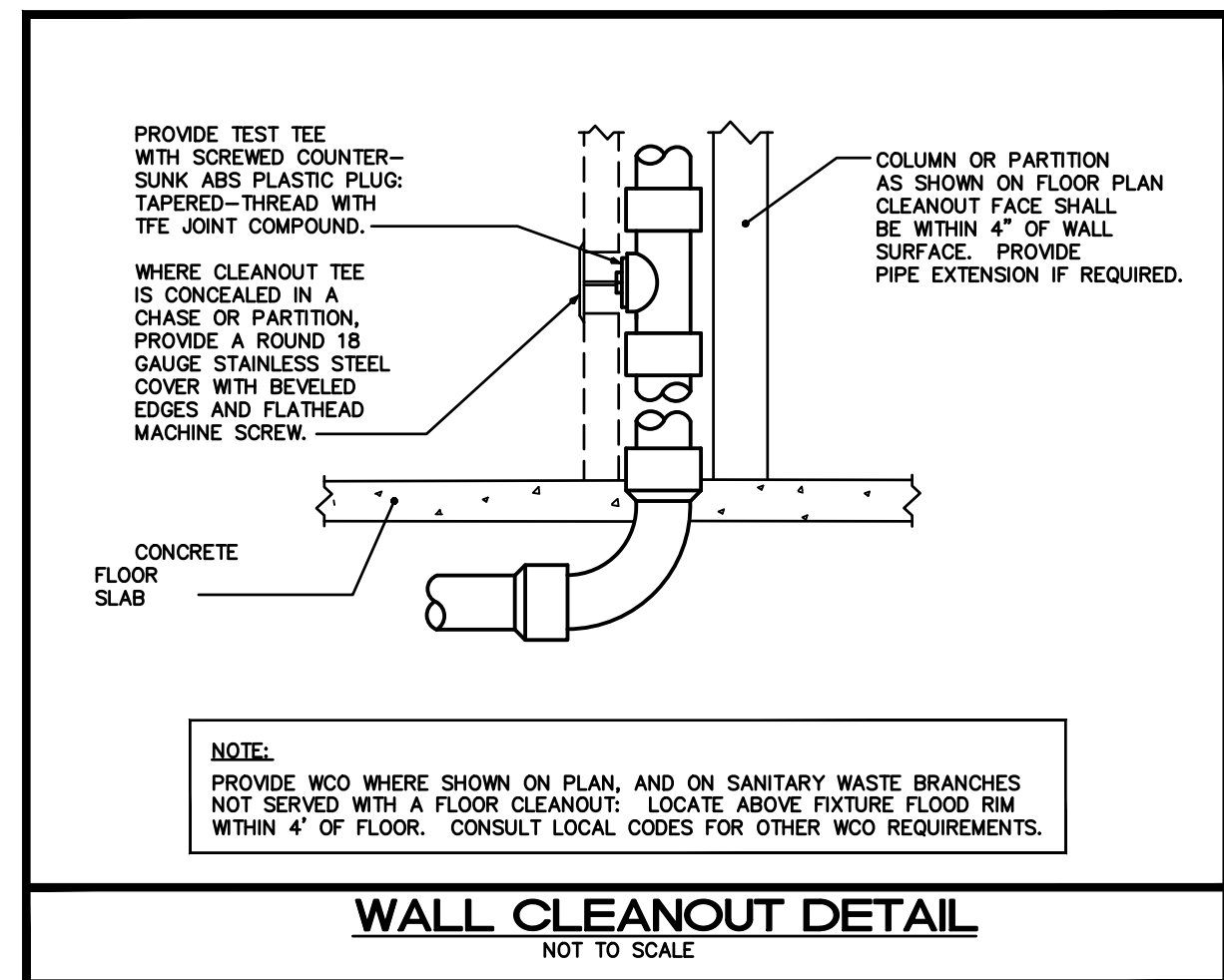
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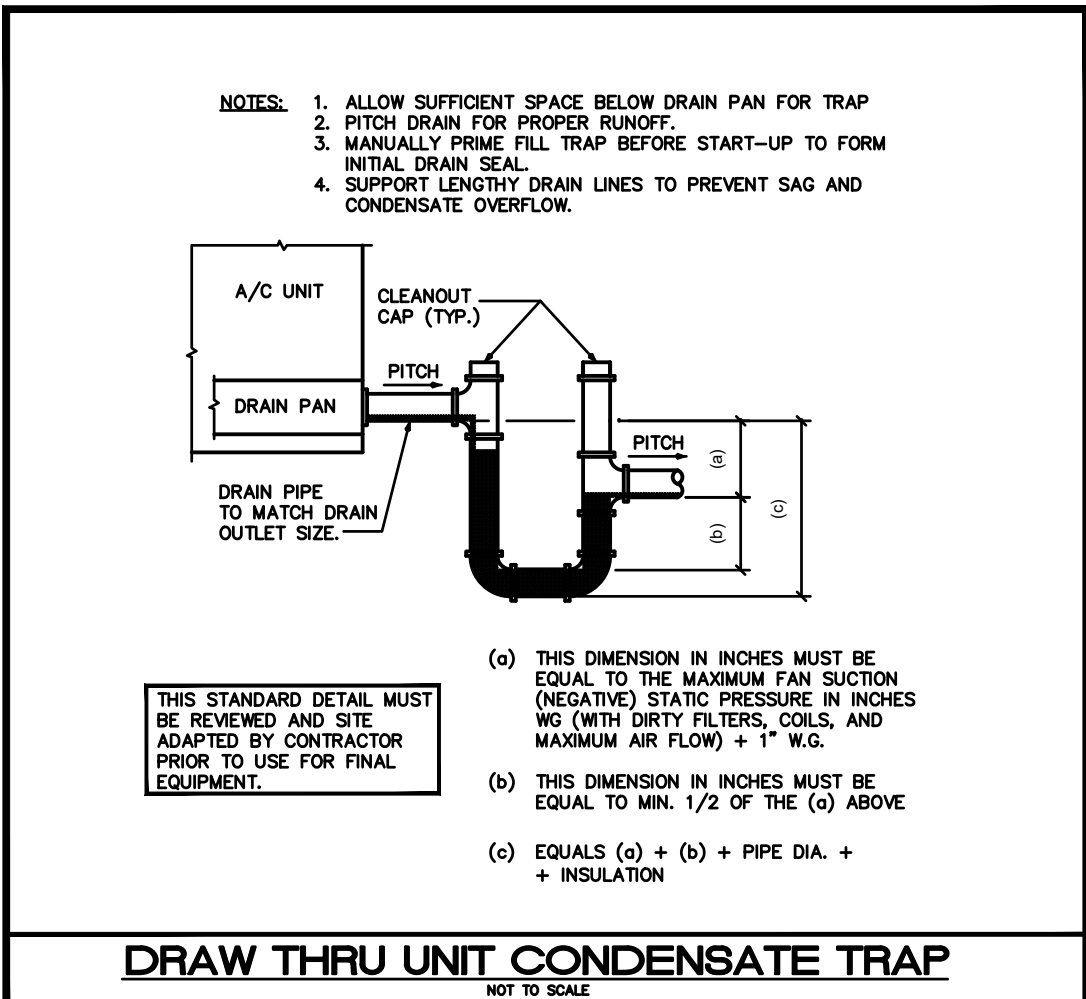
Project Number 21-0603
 Date 07 / 09 / 2021
 Drawing Name

RISER DIAGRAM & PANEL SCHEDULE

Sheet Number



WALL CLEANOUT DETAIL
NOT TO SCALE



DRAW THRU UNIT CONDENSATE TRAP
NOT TO SCALE

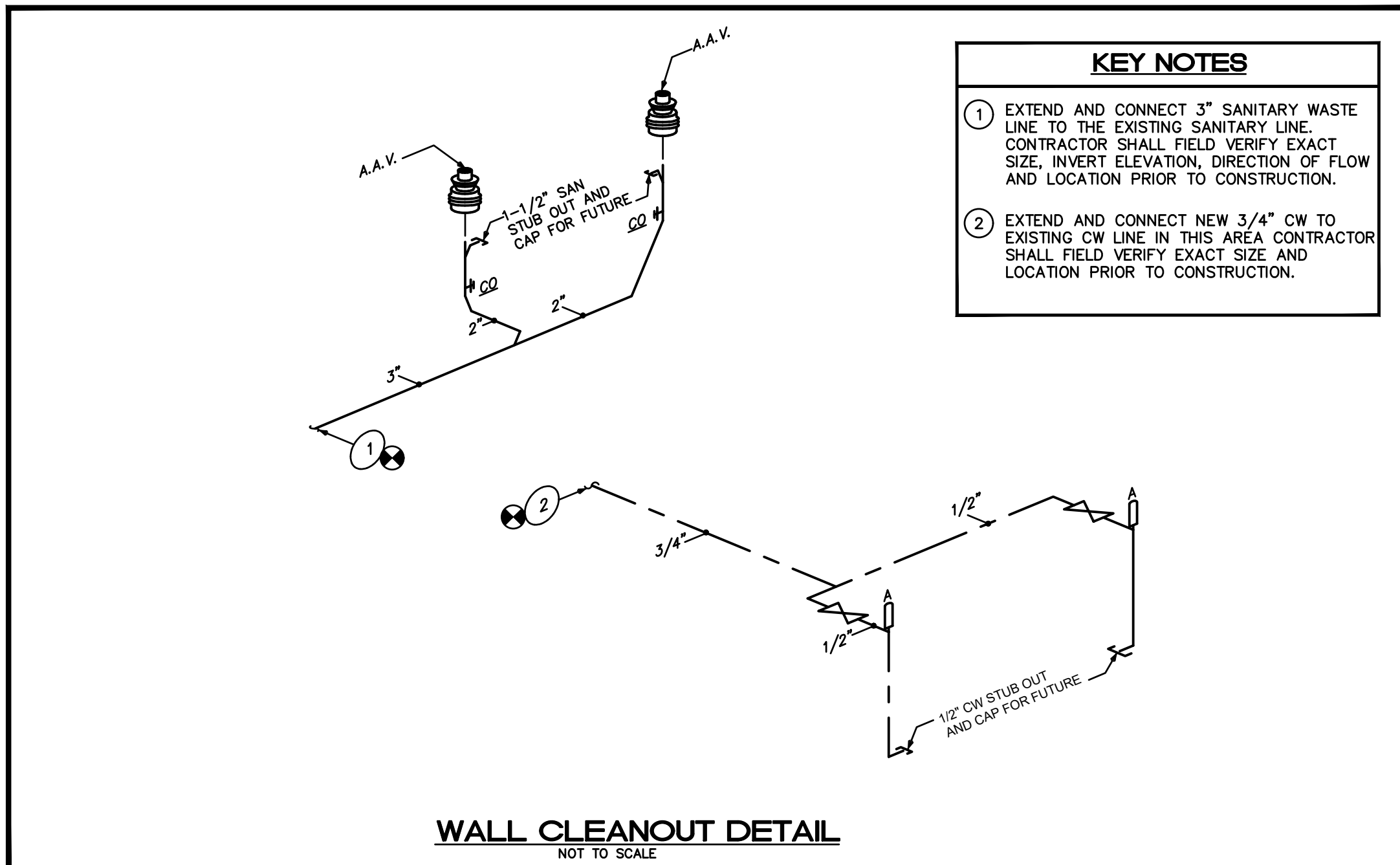
EQUIPMENT CAPABILITY	MINIMUM CONDENSATE PIPE DIAMETER (inch)
UP TO 20 TONS OF REFRIGERATION	1"
OVER 21 TONS TO 40 TONS OF REFRIGERATION	1-1/4"
OVER 41 TONS TO 60 TONS OF REFRIGERATION	1-1/2"
OVER 61 TONS TO 100 TONS OF REFRIGERATION	2"
OVER 101 TONS TO 250 TONS OF REFRIGERATION	3"
OVER 251 TONS & LARGER OF REFRIGERATION	4"

CONDENSATE DRAIN PIPE SIZING

SYMBOL LEGEND	
	SANITARY SEWER PIPING
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING (120°)
	EXISTING PIPING
	CONDENSATE PIPING
	TEMPERATURE AND PRESSURE RELIEF
	PIPE RISE UP
	PIPE DOWN OR DROP
	CAPPED END OF PIPE
	POINT OF CONNECTION
	P-TRAP
	WATER HAMMER ARRESTOR (POT No.)
	CLEAN OUT
	WALL CLEAN OUT
	SHUT-OFF VALVE
	AIR ADMITTANCE VALVE
	FLOOR DRAIN
	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATING
	HOSE BIBB
	VENT THRU ROOF
	POINT OF CONNECTION
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BALANCING VALVE
	FLOOR DRAIN
	BALL VALVE

SLOPE OF HORIZ. DRAINAGE PIPE		
SIZE (inches)	MINIMUM SLOPE (Inch per foot)	
2-1/2" or less	1/4"	
3" to 6"	1/8"	
8" or larger	1/16"	

TABLE 704.1 OF THE 2020 FLORIDA BUILDING CODE PLUMBING



WALL CLEANOUT DETAIL
NOT TO SCALE

PLUMBING SHEET INDEX	
SHEET NUMBER	SHEET TITLE
P-0	PLUMBING NOTES, SCHEDULE, DETAILS AND PLUMBING ISOMETRICS
P-1	PLUMBING PLAN

FIXTURE SCHEDULE	
WCO	WALL CLEANOUT, WADE MODEL 6590 TAPPED PLUG WITH 8480R.
A.A.V.	DATY MODEL #39010 SUREVENT AAV WALL BOX AND METAL GRILLE FACEPLATE

GENERAL NOTES

- FIXTURES SHALL BE AS INDICATED OR APPROVED EQUAL.
- ALL FIXTURES SHALL COMPLY WITH 2017 FLORIDA BUILDING CODE - PLUMBING TABLE 604.4.
- ALL FIXTURE TRIM PACKAGES INCLUDING BUT NOT LIMITED TO TRAP, ANGLE STOP, FLUSH VALVE, SUPPLY TUBES, AND CLEANOUT COVER PLATES SHALL BE SAME FINISH AS THE ABOVE SPECIFIED FAUCET AND PER ARCHITECTURAL FINISH SCHEDULE.
- ALL FIXTURES SHALL BE ROUGHED IN PER MANUFACTURER INSTRUCTIONS.
- HOT WATER IS REQUIRED AT ALL SINKS.
- VERIFY WATER SERVICE SIZE AND LOCATION.
- VERIFY SANITARY SEWER SIZE AND LOCATION.

SHOCK ARRESTOR SCHEDULE			
P.D.I. DESIGNATION	MANUF. & MODEL	FIXTURE UNITS	CONNECTION
A	SIoux CHIEF 652-A	1-11	1/2"
B	SIoux CHIEF 653-B	12-32	3/4"
C	SIoux CHIEF 654-C	33-80	1"

SIoux CHIEF SHOCK ARRESTORS APPROVED FOR INSTALLATION WITH NO ACCESS DOOR REQUIRED. CONFORMS TO ANS/ASSE 1010

- KEY NOTES**
- EXTEND AND CONNECT 3" SANITARY WASTE LINE TO THE EXISTING SANITARY LINE. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE, INVERT ELEVATION, DIRECTION OF FLOW AND LOCATION PRIOR TO CONSTRUCTION.
 - EXTEND AND CONNECT NEW 3/4" CW TO EXISTING CW LINE IN THIS AREA CONTRACTOR SHALL FIELD VERIFY EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION.

- PLUMBING NOTES**
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH 2020 FLORIDA BUILDING CODE - PLUMBING, NFPA 99 2012 EDITION, NFPA 98 2011 EDITION, ALONG WITH NATIONAL, STATE AND ALL APPLICABLE LOCAL CODES AND AUTHORITIES HAVING JURISDICTION. ALL MATERIALS SHALL BE NEW AND FREE OF DEFECTS. ALL REFERENCED STANDARDS SHALL BE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE - PLUMBING BUILDING CHAPTER 35.
 - ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
 - PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT.
 - PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED AT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
 - STATE REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE PROJECT.
 - DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ALL REQUIREMENTS.
 - CONTRACTOR SHALL PROVIDE SUBMITTALS OF ALL MATERIALS, EQUIPMENT AND FIXTURES FOR AUTHORIZATION PRIOR TO ORDERING OR COMMENCING WORK. SUBMITTALS SHALL BE TRANSMITTED IN ELECTRONIC FORM VIA EMAIL TO THE ARCHITECT OF RECORD FOR DISTRIBUTION TO THE DESIGN TEAM.
 - THE CONTRACTOR SHALL PROVIDE THE OWNER WITH "AS-BUILT" DRAWINGS.
 - PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS. PLUMBING CONTRACTOR TO OBTAIN PERMITS AND AUTHORIZED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
 - FIELD VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS. SERVICE SIZES SHALL BE VERIFIED PRIOR TO BEGINNING THE PROJECT. ANY DISCREPANCIES IN EXISTING SERVICE SIZES TO BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO PRESENTING A FINAL BID ON THE PROJECT.
 - ALL WORK SHALL BE COORDINATED BETWEEN TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY AND/OR CONFLICT (CODE OR PHYSICAL) TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
 - CONTRACTOR SHALL CREATE COORDINATION DRAWINGS DEMONSTRATING FULL COORDINATION BETWEEN ALL TRADES INVOLVED IN THE PROJECT. FIELD CONFLICTS ARE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE AT NO ADDITIONAL EXPENSE TO THE DESIGN TEAM AND THE PROJECT OWNER.
 - WATER DISTRIBUTION PIPING SHALL BE TYPE "L" COPPER OR CPVC. COPPER WATER DISTRIBUTION PIPING BELOW GROUND SHALL BE A PVC SLEEVE DESIGNED TO PREVENT GROUND WATER CONTACT WITH THE COPPER PIPING. COORDINATE WITH LOCAL JURISDICTION FOR ADDITIONAL REQUIREMENTS. CONTRACTOR SHALL PERFORM A WATER TEST TO DETERMINE WATER CHEMISTRY PRIOR TO ANY WORK OR PIPING INSTALLATION AND SHALL SUBMIT TEST RESULTS TO ENGINEER FOR REVIEW AND APPROVAL.
 - SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE CAST IRON OR PVC, WHERE CODE ALLOWS. COMBUSTIBLE MATERIALS MAY NOT BE USED IN MECHANICAL ROOMS OR RETURN AIR PLenums. INSULATE ALL BATH WATER DRAINAGE PIPING ABOVE THE FLOOR SLAB WITH 1" AP ARMAFLEX.
 - PROVIDE CLEANOUT AT BASE OF ALL SOIL AND WASTE STACKS.
 - PROVIDE COMBINATION COVER PLATE AND CLEANOUT PLUG OR ACCESS PANEL FOR ALL WALL CLEANOUTS. FINISH TO MATCH FIXTURE TRIM. REFER TO ARCHITECTURAL.
 - ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
 - PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTORS. ACCESS PANELS IN RATED WALLS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
 - DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.
 - ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PADS OR MATERIAL.
 - ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE RATED FOAM, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS.
 - NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.
 - ALL CONTROL VALVES SHALL BE TAGGED AND PROPERLY MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE PROVIDED FOR OWNER/OPERATOR.
 - PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES OR MECHANICAL EQUIPMENT PER 2020 FBC PLUMBING 606.2.
 - HOT WATER PIPING INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH 2017 FLORIDA BUILDING CODE PLUMBING 607.5 AND INSULATED IN ACCORDANCE WITH ENERGY CONSERVATION TABLE C404.4. CONTRACTOR SHALL USE ARMAFLEX OR EQUAL, WHERE APPLICABLE. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING ALL COLD WATER PIPING SHALL BE INSULATED WITH ARMAFLEX INSULATION, THICKNESS AS PER TABLE C403.2.10 OF 2020 FLORIDA BUILDING CODE - ENERGY. ALL CONDENSATE DRAIN PIPING SHALL BE PVC, CPVC, POLYETHYLENE, POLYBUTYLENE PIPE OR ANY OF THE MATERIALS LISTED IN 2020 FBC SECTION 307.2.2 OF THE 2020 FLORIDA BUILDING CODE - MECHANICAL. WHERE USED IN A RETURN AIR PLenum PVC PIPING WITH ARMAFLEX INSULATION MAY BE USED IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATION OF PIPING.
 - CONDENSATE LINES SHALL NOT DRAIN ON THE ROOFING SYSTEM OR ANY OF ITS COMPONENTS AND CONDENSATE LINES NEED NOT COMPLY WITH MIN. CLEARANCE REQUIREMENTS PER 2020 FBC - BUILDING, PAR. 152.3.5.
 - ABOVE AND BEYOND COMPLYING WITH INSULATION REQUIREMENTS OUTLINED HEREIN, INSULATE ALL DOMESTIC HOT WATER PIPING AND DOMESTIC COLD WATER PIPING IN WALLS OR CEILING SPACE, AS WELL AS CONDENSATE DRAINS WITHIN THE BUILDING. PIPE INSULATION WITHIN THE BUILDING SHALL BE ASTM C547-07e1, CLASS 1 PREFORMED FIBERGLASS PIPE INSULATION WITH AN ALL-SERVICE VAPOR-BARRIER JACKET, MINIMUM 1/2-INCH THICK.
 - CONTRACTOR SHALL SUPPLY INSULATION KIT "PLUMBEREX 433T" OR EQUAL TO ALL EXPOSED P-TRAPS.
 - REFER TO DOMESTIC WATER ISOMETRICS FOR ALL BRANCH PIPING WITHIN WALLS.
 - REFER TO SANITARY ISOMETRIC FOR ALL VENT PIPING.

r-method
r-method, inc. # AA26002053
residential + retail
architect + ure
1522 South 13th Court
Pompano Beach, FL 33069
info@r-method.net p 305.914.5355

Architect Seal

JOSE RUBEN JIMENEZ
FLORIDA REGISTERED ARCHITECT
No. AR 94903
NOT VALID UNLESS IT BEARS SEAL AND ORIGINAL SIGNATURE

Submital / Revision No. date
DD1 07 / 09 / 21
FOR ENGINEERS 10 / 13 / 21

PROPOSED OUTDOOR DINING PATIO
ENCLOSURE AT:
FLASHBACK DINER
1424 N. FEDERAL HIGHWAY
BOCA RATON, FLORIDA 33432

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Project Number 21-0603
Date 07 / 09 / 2021
Drawing Name

PLUMBING SPECIFICATIONS

Sheet Number

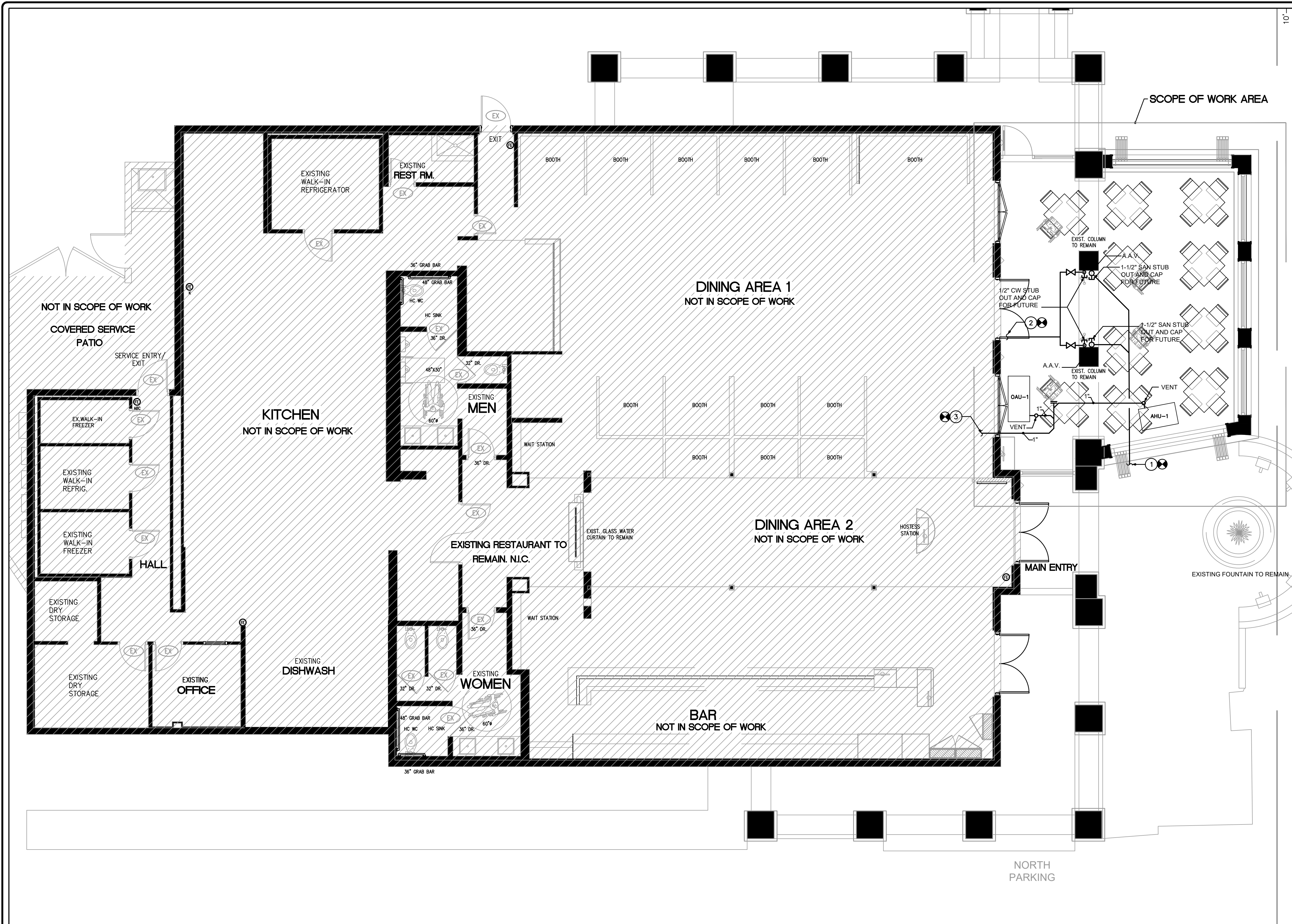
P-0

DRAWING ISSUED FOR: PERMIT
AWWC# 2021-110 DATE: 11/9/2021

ENGINEER OF RECORD
MARTIN WHITELOCKE
FLORIDA LICENSE NO. 53899
11/9/2021 DATE

Whitelocke & Williams
CONSULTING ENGINEERS, LLC

18446 OLD PRINCETON LANE,
BOCA RATON, FL 33498
TEL: 561-703-0625
FAX: 360-851-8720
EMAIL: INFO@ANDWCE.COM
CERTIFICATE OF AUTHORIZATION # 28076



NOTE
 CONTRACTOR TO TEST THE GAS LANTERNS (SEE THE ARCHITECT'S RCP) FOR PROPER OPERATION AND REPAIR OR REPLACE AS NEEDED.

- KEY NOTES**
- 1 EXTEND AND CONNECT 3" SANITARY WASTE LINE TO THE EXISTING SANITARY LINE. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE, INVERT ELEVATION, DIRECTION OF FLOW AND LOCATION PRIOR TO CONSTRUCTION.
 - 2 EXTEND AND CONNECT NEW 3/4" CW TO EXISTING CW LINE IN THIS AREA. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION.
 - 3 EXTEND AND CONNECT NEW 1" CONDENSATE BRANCH TO EXISTING CONDENSATE LINE. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION.

r-method
 r-method, inc. # AA26002053
 residential + retail
 architectural
 1522 SW 13th Court
 Pompano Beach, FL 33069
 e: info@r-method.net p: 305.914.5355

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Project Number 21-0603
 Date 07 / 09 / 2021
 Drawing Name
PLUMBING PLAN
 Sheet Number

PLUMBING PLAN 3/16" = 1'-0"

DRAWING ISSUED FOR: PERMIT
 WORK#: 2021-110 DATE: 11/9/2021

ENGINEER OF RECORD
 MARTIN WHITELOCKE
 FLORIDA LICENSE NO. 53899
 11/9/2021
 DATE

Whitelocke & Williams
 CONSULTING ENGINEERS, LLC

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 BOCA RATON, FL 33498
 TEL: 561-703-0625
 FAX: 360-851-8720
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