SCOPE OF WORK

 $\overline{1}$

1

REUSE ONE EXISTING 5.0 TON ELECTRIC ROOF TOP UNITS. PROVIDE NEW DUCTWORK AND NECESSARY ACCESSORIES FOR COMPLETE HVAC SYSTEM.

PROVIDE 1 NEW BATHROOM EXHAUST FAN & 1 NEW OTHER EXHAUST FANS AS SHOWN IN PLAN.

COORDINATE WITH GC ANY ADDITIONAL REFRIGERATION WORK REQUIRED AND WITH GC AND PLUMBING CONTRACTOR PROVIDING CONDENSATE LINES FOR MECHANICAL EQUIPMENT.

MECHANICAL PLAN NOTES

- REUSE ONE EXISTING 5.0 TON ELECTRIC ROOF TOP UNITS. PROVIDE NEW DUCTWORK AND NECESSARY ACCESSORIES FOR COMPLETE HVAC SYSTEM. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCTWORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO AC UNIT SCHEDULES FOR ADDITIONAL REQUIREMENTS.
- FOR SYSTEM OVER 2,000 CFM CHECK FOR DUCT MOUNTED AIR SMOKE DETECTORS AND THAT MEET THE REQUIREMENTS OF U.L. 268A, INTERLOCKED TO SHUTDOWN A/C UNIT UPON DETECTION OF SMOKE. IF NECESSARY PROVIDE SMOKE DETECTOR WITH AN ANNUNCIATOR, ALARM AND POWER L.E.D.'S FOR VISIBLE AND AUDIBLE ALARM SIGNAL, AND VISIBLE TROUBLE SIGNAL. MOUNT ANNUNCIATOR ON ROOM SIDE OF CEILING.
- ALL DUCTS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA/ANSI-HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, LATEST EDITION, SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL LATEST EDITION, NAIMA FIBROUS GLASS DUCT CONSTRUCTION STANDARD AND 2020 FLORIDA BUILDING CODE, SECTION 603. THE MORE STRINGENT REQUIREMENT OF ANY CODES SHALL APPLY.
- FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOW OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE.
- THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE TYPE. MOUNT THERMOSTAT 48" A.F.F. IF EXISTING THERMOSTAT AND REMOTE SENSOR ARE NOT REUSABLE THEN PROVIDE NEW THERMOSTAT WITH LOCKABLE COVER. COORDINATE LOCATION OF THERMOSTAT. PROVIDE REMOTE SENSOR LOCATED 72" ABOVE FINISHED FLOOR NEAR LOCATION INDICATED. SEAL WALL OPENINGS WITH CAULK. COORDINATE LOCATION ON SITE WITH GENERAL CONTRACTOR AND EQUIPMENT.
- ALL INDOOR DUCT AND PLENUM INSULATION SCHEDULE;

EXTERIOR OF BUILDING:

CONCEALED, RECTANGULAR, ROUND AND FLAT-OVAL, SUPPLY-RETURN, OUTDOOR-AND EXHAUST-AIR DUCT AND AIR PLENUM INSULATION: 2. FLEXIBLE ELASTOMERIC, MINERAL-FIBER BLANKET, MINERAL-FIBER BOARD OR POLYOLEFIN WITH MINIMUM

INSTALLED THERMAL RESISTANCE AS FOLLOWS:							
	SA PLENUM	RA PLENUM					
UNCONDITIONED SPACES:	R-4.2	R-4.2					
UNVENTED ATTIC ABOVE INSULATED CEILING	R-6	R-4.2					

ALL SEAMS, JOINTS, ETC WILL BE SEALED TO MAKE AIR DUCT AIRTIGHT. PRESSURE SENSITIVE MATERIALS AND OTHERS APPROVED BY LATEST SMACNA. SEALING MATERIALS WILL BE USED.

R-6 R-4.2

- ALL EVAPORATOR UNITS SHALL HAVE A FLOAT SWITCH TO CONTROL OVERFLOW THAT WILL AUTOMATICALLY SHUT DOWN THE HVAC SYSTEM. THE DEVICE SHALL BE ATTACHED TO THE SECONDARY DRAIN OUTLET ON THE UNIT.
- ALL CONDENSATE DRAINS WILL BE PVC FULL DIAMETER OF OUTLET AND WILL TERMINATE IN THE NEAREST APPROVED PLACE OF DISPOSAL.
- ALL EQUIPMENT AND MATERIALS WILL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND ACCORDING TO THE BEST PRACTICE.
- TESTING AND BALANCING SHALL BE DONE IN ACCORDANCE WITH 2020 FBC ENERGY CONSERVATION, 7TH EDITION SECTION C408.2.2. BALANCING PROCEDURES SHALL BE IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (N.E.B.B.). THE ASSOCIATED AIR BALANCE COUNCIL (A.A.B.C) NATIONAL STANDARDS OR EQUIVALENT PROCEDURES.
- HANGER ATTACHMENTS TO THE STEEL STRUCTURE WILL BE RATED POWDER ACTUATED FASTENERS, "C" CLAMPS, WELDED STUDS, CLAMP HANGERS, JOIST CLAMPS OR OTHER METHODS RECOMMENDED BY SMACNA'S "METAL AND FLEXIBLE STANDARDS", CHAPTER 4, AND WILL HAVE A MINIMUM SAFETY MARGIN OF 4:1. SUSPENDED FROM TOP CHORD OF JOISTS, NOTHING FROM DECK OR CROSS BRACING.
- PROVIDE FIRE/SMOKE +SMOKE COMBINATION DAMPERS WHEREVER REQUIRED.COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SMOKE/FIRE RATING OF THE WALLS/SLABS/ROOF.COORDINATE ELECTRICAL POWER REQUIREMENT FOR DAMPER ACTUATORS WITH ELECTRICAL CONTRACTOR.
- ALL HVAC CONTROLS AND CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
- FACTORY-MADE FLEXIBLE AIR DUCTS, BOTH METALLIC AND NONMETALLIC, SHALL BE TESTED IN ACCORDANCE WITH UL 181. SUCH DUCTS SHALL BE LISTED AND LABELED AS CLASS 0 OR CLASS 1 FLEXIBLE AIR DUCTS AND SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 304.1, 2020 FLORIDA MECHANICAL CODE 7TH EDITION.

CORAL SPRINGS BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF THE 2020 FLORIDA BUILDING CODE 7TH EDITION, AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

- ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.
- VENTILATION FOR ALL AREA SHALL COMPLY WITH 2020 FLORIDA MECHANICAL CODE 7TH EDITION, CHAPTER 4.
- THE LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND REPORTS OF TESTS THAT THE SYSTEM COMPLIES WITH THE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS.
- TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE 2020 FLORIDA MECHANICAL CODE 7TH EDITION: A. VENTILATION SYSTEM BALANCING 2020 FLORIDA MECHANICAL CODE 7TH EDITION - 403.3
- THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:
- A. STANDARDS OF HEATING 2020 FLORIDA MECHANICAL CODE 7TH EDITION 309.1
- B. DUCT CONSTRUCTION AND INSTALLATION 2020 FLORIDA MECHANICAL CODE 7TH EDITION 603 C. AIR INTAKES, EXHAUSTS AND RELIEF 2020 FLORIDA MECHANICAL CODE 7TH EDITION - 401.5
- AIR FILTERS 2020 FLORIDA MECHANICAL CODE 7TH EDITION 605
- MANUAL AND AUTOMATIC FIRE AND SMOKE CONTROLS FOR AIR DISTRIBUTION SYSTEMS 2020 FLORIDA MECHANICAL F CODE 7TH EDITION - 606
- MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.
- A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATION SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS REQUIRED BY 2020 FLORIDA MECHANICAL CODE 7TH EDITION
- REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION A LOCATION.
- THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
-). VENTILATION SYSTEMS SHALL BE BALANCED TO MAINTAIN THE MINIMUM VENTILATION AIRFLOW RATE AS SHOWN IN VENTILATION REQUIREMENT TABLE. THIS SYSTEM SHALL BE BALANCED BY APPROVED METHOD - 2020 FLORIDA MECHANICAL CODE 7TH EDITION 403.3.1.5. CONTRACTOR TO SUBMIT THE AIR - BALANCE REPORT TO INSPECTOR. OF RESPECTIVE BUILDING DEPARTMENT PRIOR FINAL INSPECTION.

GENERAL NOTES

- INCLUDED IN YOUR SCOPE OF WORK AND CONTRACT AMOUNT.
- BIDDING, ORDERING, OR PROCEEDING WITH WORK.
- WORK, AND CHECK/COORDINATE DRAWINGS OF ALL TRADES.
- ANY DISCREPANCIES BEFORE STARTING WORK.
- FOR A COMPLETE SYSTEM.
- BY CODE.
- PLENUM RATED.
- UNEXPECTED DIFFICULTIES.
- CEILINGS MAY BE SHEET METAL WITH EXTERNAL INSULATION.
- PENETRATIONS TO MAINTAIN ROOFING WARRANTY.
- LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

MECHANI	CAL SYMBOLS
EXH4	AUST FAN
\bowtie	SUPPLY OR OUTSIDE AIR DU
	RETURN OR EXHAUST AIR D
	INSULATED RIGID DUCTWO
	MANUAL VOLUME DAMPER
••••••••	FLEX DUCT
	ROOF MOUNTED EXHAUST FAN OUTLET
	ROOFTOP UNIT
BD	BACK DRAFT DAMPER
	SUPPLY DIFFUSER REFER TO DIFFUSER SCHEE FOR SPECIFICATIONS
NOTE: THIS PR	OJECT MAY NOT USE EVERY SY

CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET. PAY SPECIAL ATTENTION TO THE RESPONSIBILITY SCHEDULE. WORK DESIGNATED ON SCHEDULE SHALL BE CONSIDERED

CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT NOTIFY ARCHITECT/ENGINEER BEFORE

DRAWINGS/DETAILS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT

COORDINATE WITH THE WORK OF OTHERS SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DRIPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF

DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY

ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED

A. USE OF COMBUSTIBLE MATERIALS IS NOT ALLOWED IN THE RETURN AIR PLENUM. MATERIALS USED IN THE PLENUM SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25, AND SMOKE DEVELOPED RATING NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL EXPOSED WIRING IN THE PLENUM SHALL BE

VERIFY LOCATION OF PERMISSIBLE NEW STRUCTURAL ROOF PENETRATIONS AND ADAPT THE REQUIRED DUCTS ACCORDINGLY. THE OPENINGS MUST BE LOCATED USING A REBAR LOCATOR, TRYING TO LEAVE A TRANSVERSE BAR WITHIN 4" FROM THE OPENING. LOCATE OPENINGS AT MID-DISTANCE BETWEEN THE STEMS OF THE DOUBLE TEE AND LONGITUDINAL REINFORCEMENT SHALL NEVER BE CUT. CALL THE ARCHITECT'S OFFICE IN CASE OF

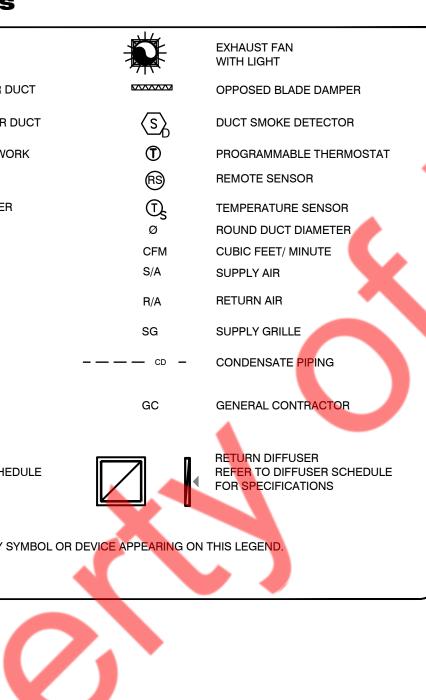
ALL EXPOSED DUCTS WILL BE SPIRAL GALVANIZED AND READY FOR PAINTING. ALL RECTANGULAR DUCTS OVER

G.C. SHALL CONTRACT LANDLORD-APPROVED ROOFING CONTRACTOR TO FLASH AND SEAL ALL ROOF

REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC

CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE AND PROVIDE COPY TO LL.

M. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.



ROOF TOP UN	IIT SCHEDULE
TAG	RTU-1(E)
QUANTITY	1
UNIT	ELECTRIC HEAT
MANUFCATURER	RHEEM
MODEL	RACA14060CJT (V.I.F.)
STATUS	EXISTING
MOUNTING	ROOF
NOMINAL CAPACITY	5.0 TON
TOTAL COOLING CAPACITY	S.A.E.
SENSIBLE CAPACITY	S.A.E.
EER/SEER	S.A.E.
ELECTRIC HEAT(kW)/MODEL	7.2 (V.I.F.)/RXQJ-B10J (V.I.F.)
SUPPLY CFM	2000
OUTDOOR AIR CFM	510
V/HZ/P	208/60/1 (V.I.F.)
MCA (A)	53 (V.I.F.)
MCB (A)	60 (V.I.F.)
WEIGHT (LBS)	S.A.E.
	<u></u>

NOTES FOR EXISTING RTU-

- . EXISTING RTU WITH ALL ACCESSORIES TO REMAIN SAME AND TO BE REUSED. 2. CONTRACTOR TO FIELD VERIFY IF ALL RTU ARE
- WORKING AT THEIR 100% RATED CAPACITIES / LOADS. INFORM TO DESIGN ENGINEER IF ANY DISCREPANCIES ARE FOUND IN PERFORMANCE PRIOR TO CONSTRUCTION. 3. CONTRACTOR TO FIELD VERIFY EXACT LOCATION
- AND CONFIGURATION OF UNIT ON SITE. 4. IF REQUIRED, PROVIDE NEW THERMOSTAT AND TEMPERATURE SENSOR COMPATIBLE WITH EXISTING RTU. CO-ORDINATE FINAL LOCATION OF
- T-SENSOR WITH ARCHITECT / OWNER. 5. CONTRACTOR TO BALANCE OUTSIDE AIR & RETURN AIR DAMPERS ON EXISTING RTU TO MATCH VALUES
- MENTIONED IN ABOVE TABLE. 6. REPLACE FILTERS, IF REQUIRED. CONTRACTOR SHALL VERIFY EXACT ELECTRICAL

CONNECTIONS, WIRE SIZES, BREAKERS, DISCONNECT ETC. PRIOR TO ORDERING AND BID.

CONTRACTOR TO FIELD VERIFY THE EXACT POWER REQUIREMENT FOR THE REPLACEMENT OF THE INBUILT ELECTRIC KIT AND COORDINATE WITH THE E.C. FOR EXACT CAPACITY AND NUMBER OF BREAKERS AND CONTROLS.

00	CUPANC		ULATION PE	R 2020 FB	C -			FAN SCHEDUL	.E
			EDITION, TAI		-		DESIGNATION	EF-1 (N)	KEF-1 (N)
LOUNGE AF	REA	140 SQ. F	T. @70 PEOPLE	/1000SQ.FT.	10 PEOP	PLE	STATUS	NEW	NEW
DINING ARE	EA	441 SQ. F	T. @70 PEOPLE	/1000SQ.FT.	31 PEOP	PLE	QUANTITY	1	1
SERVICE A	REA	163 SQ. F	T. @20 PEOPLE	/1000SQ.FT.	4 PEOP				
BOH AREA		144 SQ. F	T. @20 PEOPLE	/1000SQ.FT.	3 PEOP	PLE	MANUFACTURER	GREENHECK	GREENHECK
OFFICE		22 SQ. F	T. @5 PEOPLE/	1000SQ.FT.	1 PEOP	PLE	MODEL	SP-A90	SQ-90
				TOTAL	49 PEOF	PLE	CFM	70@ 0.3" W.C. ESP	270@ 0.5" W.C ESP
VEN			IREMENTS P 7TH EDITION		BC -	G	НР	-	1/10
	DE4	66 SQ.	FT. X 0.18 CFM/S	Q. FT. =	12 CF	FM 🔺	AMPS	0.17	-
	KEA	10 PEOP	LE. X 7.5 CFM/PE	OPLE. =	75 CF	FM	ACCESSORIES	BDD,LITE KIT	BDD,LITE KIT
DINING ARI	EA		FT. X 0.18 CFM/S LE. X 7.5 CFM/PE		79 CF 233 CF		WEIGHT (LBS)	12	50
SERVICE A	REA		FT. X 0.12 CFM/S		20 CF		V/P/HZ	115/60/1	115/60/1
			LE. X 7.5 CFM/PE		30 CF		NOTE: 1. PROVIDE DISC	CONNECT SWITCH.	
BOH AREA			FT. X 0.12 CFM/S LE. X 7.5 CFM/PE		17 CF 23 CF		 2. EF-1 (N) SHALL BE INTERLOCKED WITH RTU-1 3. PROVIDE BACK DRAFT DAMPER. 		
			FT. X 0.06 CFM/S		20 CF			RLOCK WITH RTU-1	(E).
OFFICE			LE. X 5 CFM/PEO		5 CF				
HALLWAY		90 SQ. 1	FT. X 0.06 CFM/S	Q. FT. =	6 CF	FM			
OUTSIDE A		D			502 CF	FM			
SERVICE A			Q. FT. X 0.7 CFM,		114 CF				
BOH AREA			Q. FT. X 0.7 CFM		101 CF				
UNISEX RE			O CFM PER FIXTU		70 CF 50 CF				
		Đ			335 CF				
OUTSIDE A	IR PROVIDE	D			510 CF				
EXHAUST F					340 CF	FM			
AIR BALAN	<u>CE</u> DED THROU	GH RTU-1	(E)		+510 CF	FM			
EF-1(N)			× /		-70 CF				
KEF-1(N)					-270 CF				
BUILDING F	PRESSURE				+170 CF	,FIVI			
$\widehat{\Lambda}$									
`									
SCHEDU	JLE					NECK	SIZE TABLE -	A	
SCHEDU TITUS	JLE ΤΙΤΙ	JS	TITUS	TITUS		NECK SIZ			
		JS	R1	TITUS E					
TITUS	TITU				N	NECK SIZ	E DIA CFM RANG	GE	
TITUS A2	TITU	RN	R1 RETURN/	E	N	NECK SIZI Ø6"	E DIA CFM RANG 0-100 101-200	GE	
TITUS A2 SUPPLY	TITU R RETU	AA	R1 RETURN/ EXHAUST	E	N	NECK SIZ Ø6" Ø8"	E DIA CFM RANG 0-100 101-200 201-400	GE	
TITUS A2 SUPPLY 300FS	TITU R RETU TDC-	IRN AA NG	R1 RETURN/ EXHAUST 56FL	E EXHAUST TDC-AA		NECK SIZI Ø6" Ø8" Ø10"	E DIA CFM RANG 0-100 101-200 201-400	GE	

		DIFFU	SER SCHEDUI	E		
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
DESIGNATION	А	A1	A2	R	R1	E
USE	SUPPLY	SUPPLY	SUPPLY	RETURN	RETURN/ EXHAUST	EXHAUST
MODEL	TDC-AA	TDC-AA	300FS	TDC-AA	56FL	TDC-AA
MOUNTING	CEILING	CEILING	DUCT/WALL	CEILING	WALL	CEILING
LOCATION	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN
FACE SIZE	24" X 24"	12"X12"	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN
NECK SIZE	REFER TABLE - A	REFER TABLE - A	-	REFER TABLE - A	-	REFER TABLE - A
FRAME TYPE	LAY IN	LAY IN/ FLANGED	FLANGED	LAY IN/ FLANGED	FLANGED	LAY IN
FINISH	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE
NOISE CRITERIA	<30	<30	<30	<30	<30	<30
ACCESSORIES	VOLUME DAMPER	VOLUME DAMPER	VOLUME DAMPER	-	VOLUME DAMPER	VOLUME DAMPER

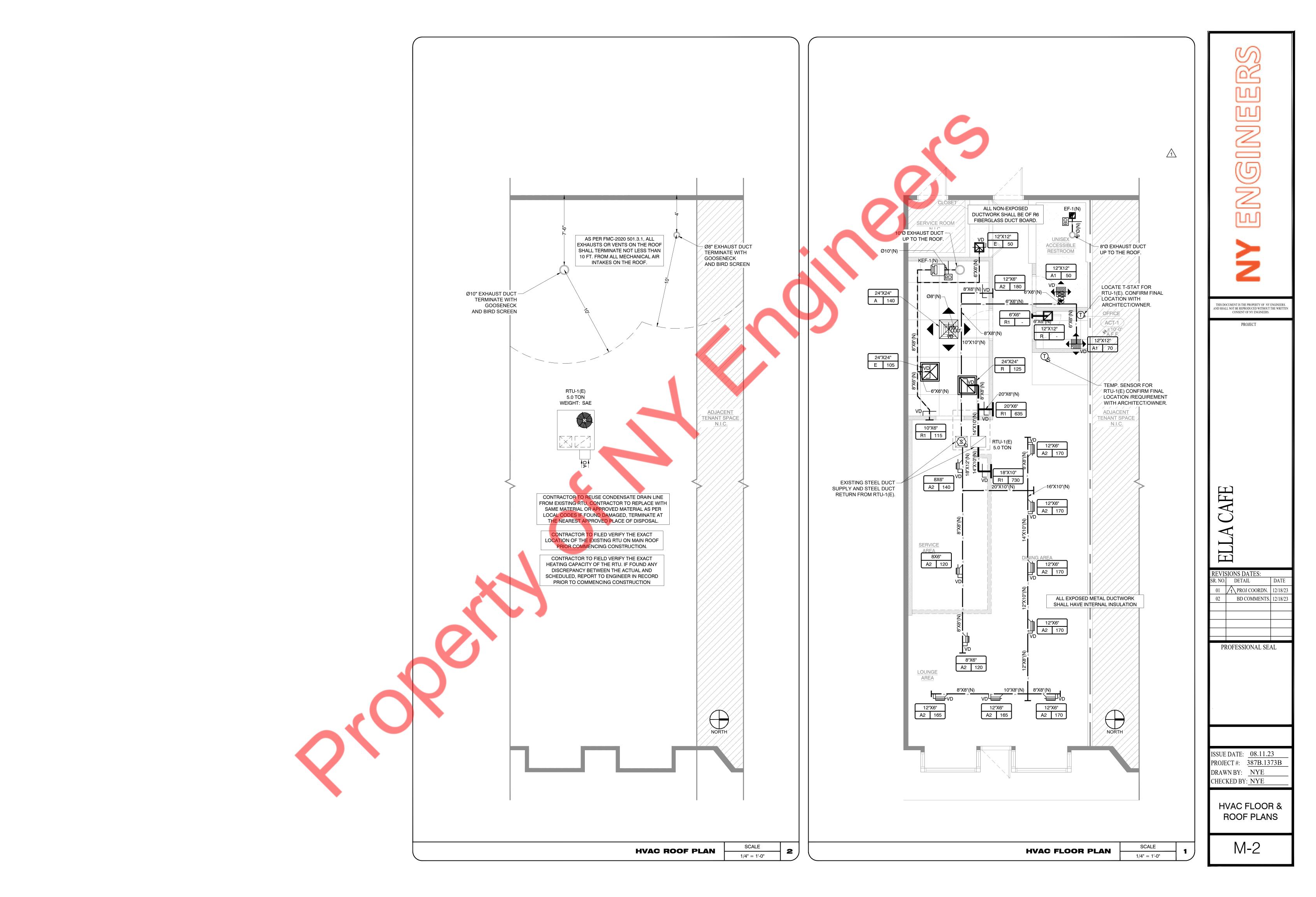
NOTES : 1. MAX. NC LEVEL 30 OR LESS.

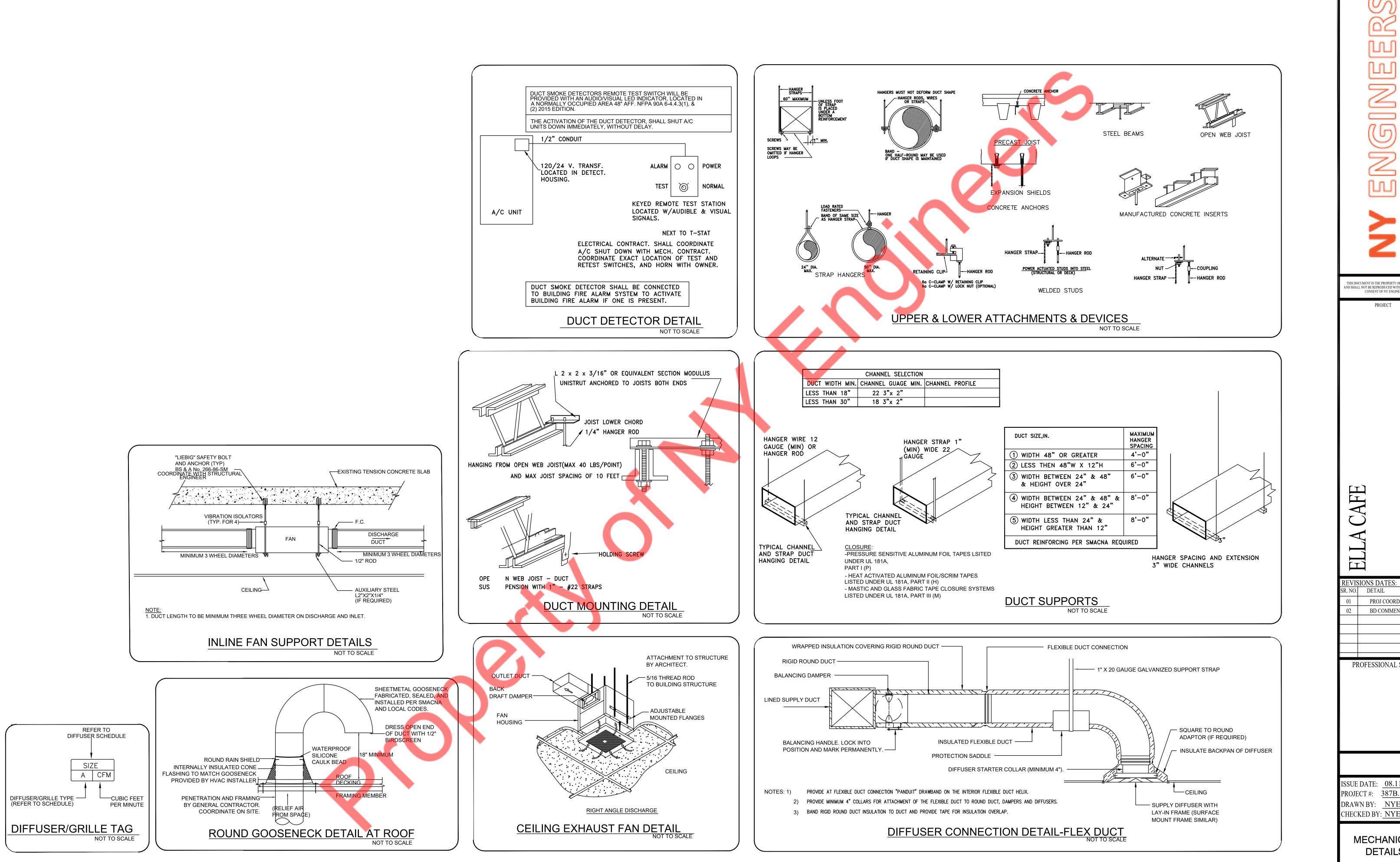
2. PROVIDE SQUARE TO ROUND NECK ADAPTOR.

3. CO-ORDINATE WITH ARCHITECT FOR FINAL MOUNTING, FRAME TYPE, PAINT AND FINISH. 4. PROVIDE 4-WAY AIR THROW PATTERN UNLESS NOTED OR INDICATED.

5. PROVIDE INSULATED BACKS ON ALL DIFFUSERS.

AND SHALL NOT BE REPRODUCED WITHOUT THE WRITTEN CONSENT OF NY ENGINEERS. PROJECT
REVISIONS DATES: SR. NO. DETAIL DATE 01 /1 PROJ COORDN. 12/18/23 02 BD COMMENTS. 12/18/23 12
ISSUE DATE: <u>08.11.23</u> PROJECT #: <u>387B.1373B</u>
DRAWN BY: <u>NYE</u> CHECKED BY: <u>NYE</u>
MECHANICAL NOTES & SCHEDULES
M-1





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THIS DOCUMENT IS THE PROPERTY OF NY AND SHALL NOT BE REPRODUCED WITHOUT CONSENT OF NY ENGINEERS.	
ELLA CAFE	
REVISIONS DATES: SR. NO. DETAIL	DATE
01 PROJ COORDN. 02 BD COMMENTS.	12/18/23 12/18/23
	12,10,20
PROFESSIONAL SEA	ΑL.
ISSUE DATE: 08.11.2 PROJECT #: 387B.13 DRAWN BY: NYE CHECKED BY: NYE	
MECHANICA DETAILS	AL
M-3	

SCOPE OF WORK

I. REUSE EXISTING 200A, 120/208V, 3-PHASE, 4-WIRE ELECTRICAL SERVICE FOR THE PROJECT SPACE. 2. PROVIDE NEW (1) 225A(M.L.O.), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A" FOR THE PROJECT SPACE. ALL NECESSARY EQUIPMENT, WIRING AND LIGHTING FOR THE PROJECT SPACE INCLUDING WIRING FOR VENTILATION EQUIPMENT. COORDINATE WITH G.C FOR LOW VOLTAGE WIRING.

GENERAL LIGHTING NOTES

- A. UPPER CASE LETTER NEXT TO LIGHT FIXTURE DENOTES FIXTURE TYPE.
- B. ALL EMERGENCY FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED HOT CONDUCTOR.

ELECTRICAL LEG

SYMBOL	DESCRIPTION
S	EXHAUST FAN
	COMBINATION I
\bigcirc	JUNCTION BOX
	BATTERY BACK
<u>0</u> _0	BATTERY BACK
\$	WALL SWITCH (
\$ ₃	WALL SWITCH (
S _M	MOTOR SWITCH
\$ ⁰	DIMMER WALL S
\$ ₁	WALL SWITCH (
\$ _{os}	OCCUPANCY SE
0	SINGLE RECEPT
e	DUPLEX RECEP
t	DUPLEX RECEP
¢	HALF SWITCHEI
۲	230 VOLT RECE
€	QUADRUPLEX R
o	FLOOR MOUNTE
	FLOOR MOUNT
	FLOOR MOUNT
CL	CEILING MOUN
\sim	ELECTRICAL PA
	DISCONNECT S
\equiv \left	USB CHARGER
	TELEVISION OU
	TELEPHONE OL
\mathbf{A}	TELEPHONE/DA
${\bf k}$	DATA OUTLET
	FLOOR MTD. FL
	QUAD. DATA OL
	NON FUSED DIS

ABBREVIATIONS:

ABOVE FINISH FLOOR=
COUNTER TOP LEVEL=
GROUND FAULT INTER
VERIFY PRIOR TO INST
WEATHER PROOF= WF
KITCHEN EXHAUST FAI
WATER HEATER= WH
AUTHORITY HAVING JU
EXHAUST FAN=EF

ELECTRICAL PLAN NOTES

- . ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING AND SCHEDULES. IF DIFFERENT, NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING, OR PROCEEDING WITH WORK.
- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT 35. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PORTION OF THE WORK UNTIL OWNER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
- ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING 37. ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 24" A.F.F. CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC.. THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID.
- OF THE NATIONAL ELECTRIC CODE AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
- DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION FOR ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE
- ALL ELECTRICAL NOT BEING REUSED MUST BE REMOVED IN ITS ENTIRETY. ALL CONDUIT IN OR UNDERGROUND OR IN CONCRETE MUST BE RIGID GALVANIZED STEEL.
- . CIRCUIT BREAKERS AND PANELS TO BE BOLT ON TYPE.
- 0. ALL EQUIPMENT SHALL BE APPROVED BY UL OR OTHER NATIONALLY RECOGNIZED TESTING COMPANY.
- 1. ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY NEC 250.146.
- 12. SUBMIT SERVICE ENTRANCE EQUIPMENT FOR SEPARATE APPROVAL.
- 13. ALL LOW VOLTAGE MUST BE IN CONDUIT TO ABOVE THE DROP CEILING. BRIDAL RINGS OR "J" HOOKS REQUIRED.
- 4. SEPARATE PERMITS ARE REQUIRED FOR ALL LOW VOLTAGE SUCH AS TELEPHONE, DATA, THERMOSTAT, MUSIC, ALARMS ETC.
- 15. SEPARATE PERMIT REQUIRED FOR SIGNAGE.
- GENERAL CONTRACTORS IS REQUIRED.
- 17. ELECTRICIAN MUST BE ON SITE FOR ALL INSPECTIONS.
- 8. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING. ALL 48. ELECTRICAL CONTRACTOR SHALL COORDINATE SERVICE ENTRY WITH CONDUCTORS SHALL BE COPPER AND UNLESS OTHERWISE NOTED THHN INSULATION.
- 19. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, PLASTIC AND CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND 49. ALL OUTDOOR EQUIPMENT SHALL BE WEATHERPROOF. SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- 0 IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- 1. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS 52. ABSOLUTELY NO FLEXIBLE CONDUIT IS PERMITTED IN DEMISING WALLS. REQUIRED BY THE N.E.C. OR LOCAL CODES.
- 22. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
- 3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR FLEXIBLE CONDUIT IN CEILING SPACE OR WALL CAVITY. NO CONDUIT TO BE IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
- 24. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- 25. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE COMPLIANCE WITH NEC AND UL REQUIREMENTS. YEAR FROM DATE THAT CERTIFICATE OF OCCUPANCY IS ISSUED. WARRANTY SHALL BE PROVIDED IN WRITING. PROVIDE COPY TO LL.
- 6. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL 57. 7-DAY 24-HOUR TIME CLOCK IS REQUIRED TO CONTROL STOREFRONT ENTRY CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- 7. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK
- 8. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.
- 29. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES.
- 30. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
- 1. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE CIRCUIT BREAKERS.

PLATES, DEVICES, ETC. FOR ALL OUTLETS AS INDICATED. MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS 33. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF N.E.C. NEMA, AND IECE.

32. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER

- ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE 34. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.
 - PATCHING AND FIRED CAULKING REQUIRED OF HIS WORK.
 - 36. ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/TYPE WRITTEN DIRECTORIES.
 - UNLESS NOTED OTHERWISE, AND VERTICALLY MOUNTED.
 - 38. ALL LIGHT SWITCHES TO BE AT 42" A.F.F.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 EDITION 39. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL WIRING FOR HVAC SYSTEM INCLUDING CONTROLS, THERMOSTATS, POWER, ETC. SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
 - 40. BREAKER AND PANELS -- ALL CURRENT CARRYING BUSSES SHALL BE COPPER ALL GROUND BUS BARS SHALL BE COPPER PANEL BOARD ENCLOSURES SHALL BE FURNISHED WITHOUT PRE-PUNCHED CONCENTRIC HOLES. A.I.C. RATINGS SHALL BE AS INDICATED ON PANEL BOARD SCHEDULES.
 - 41. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY EXPOSURE.
 - 42. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, WITH OVERLOAD RELAYS IN EACH HOT LEG.
 - 43. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS INDICATES THE CONTRACT SHALL FURNISH AND INSTALL.
 - 44. CONTRACTOR SHALL CONFIRM WITH ANY AND ALL REQUIREMENTS SUCH AS: LUG SIZE RESTRICTIONS CONDUIT ENTRY TRANSFORMER SIZE SCHEDULED. DOWN TIME FOR OWNERS CONFIRMATION, ETC. ANY CONFLICTS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
 - 45. VOLTAGE DROP FOR ALL BRANCH CONDUCTORS SHALL NOT EXCEED 3%. WHERE VOLTAGE DROP EXCEEDS 3%, CONTRACTOR SHALL INCREASE SIZE OF CONDUCTORS.
- 16. PRIOR TO ANY CONSTRUCTION WORK BEGINNING AN ON-SITE MEETING WITH 46. CONTRACTOR SHALL PROVIDE GFI TYPE BREAKER FOR ALL EXTERIOR 120V CIRCUITS OR GFI PROTECTION -- FOR THE WHOLE CIRCUIT.
 - 47. GAS PIPING SHALL BE BONDED.
 - SERVICE PROVIDER PRIOR TO DETERMINING EXACT LOCATION OF THE METER BOX IN ORDER TO AVOID DISCREPANCIES BETWEEN DRAWINGS AND JOB CONDITIONS.

 - 50. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE. PROVIDE A COPY TO LL.
 - 51. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.
 - FLEXIBLE CONDUIT IS PERMITTED FOR SHORT FINAL CONNECTIONS ONLY (6'-0" OR LESS).
 - 53. EXPOSED CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL OR IN RIGHT ANGLES TO THE BUIDING STRUCTURE. DO NOT LOOP EXCESS SUPPORTED FROM THE ROOF DECK.
 - 54. CABLE TYPES AC AND NM CABLES ARE NOT ACCEPTABLE. TYPE MC CABLE, ELECTRIC METALLIC TUBING (EMT) AND RIGID GALVANIZED CONDUIT ARE PERMITTED
 - 55. ALL EQUIPMENT, DEVICES AND FIXTURES SHALL BE GROUNDED IN
 - 56. ALL PANELS TO BE UL LABELED WITH BOLT-ON TYPE CIRCUIT BREAKERS. LIGHTS, SHOW WINDOW LIGHTS, SHOW WINDOW RECEPTACLES AND STOREFRONT SIGNAGE. ILLUMINATED STOREFRONT SIGNS MUST REMAIN
 - 58. TENANT IS REQUIRED TO MAKE A FIELD SURVEY OF THE EXISTING ELECTRICAL SERVICE TO ENSURE THAT THE TOTAL CONNECTED LOAD DOES NOT EXCEED THE ELECTRIC SERVICE. ANY/ALL MODIFICATIONS OR UPGRADES NEEDED ARE SUBJECT TO LANDLORD'S PRIOR APPROVAL AND
 - WILL BE COMPLETED BY TENANT/TENANT'S GC AT TENANT'S SOLE EXPENSE. 59. ALL ELECTRICAL PANELS TO BE MOUNTED ON PLYWOOD BACKER BOARD.
 - 60. PANEL PHASE LOADS TO BE BALANCED WITHIN 10%

LIT DURING ALL MALL BUSINESS HOURS.

SHALL BE CONNECTED TO AN UNSWITCHED HOT	\square	А	2x2 RECESSED LED FLAT PANEL	LITHONIA LIGHTING	CPX-2X2-AL07-SWW7-M4	120
		A1	2x4 RECESSED LED FLAT PANEL	LITHONIA LIGHTING	CPX-2X4-AL08-SWW7-M2	120
		В	DECORATIVE PENDENT LED	TBD	TBD	120
		С	TRACK LIGHTS	ABL-JUNO	R600L-G2-16623	120
	888				TBD	
	0	D	6" RECESSED DOWNLIGHT	TBD		120
XHAUST FAN/LIGHT (REFER TO MECHANICAL PLANS)		X1 Y1	EXIT SIGN EMERGENCY LIGHTS	TBD	TBD	120 120
JP EXIT LIGHT JP EMERGENCY LIGHT	\$₽	DS	DIMMER WALL SWITCH	TBD	TBD	120
SINGLE, DOUBLE,)	\$ _T	т	TIMER WALL SWITCH	TBD	TBD	120
WAY, 4 WAY)	\$ _{os}	OS	OCCUPANCY WALL SWITCH	TBD	TBD	120
WITCH IMER)	(OS)	OS	CEILING OCCUPANCY SENSOR	ТВD		120
NSOR WALL SWITCH		(E)	EXISTING LIGHTING FIXTURE		TBD	-
ACLE	NOTE:		TO REMAIN			
D. FLUSH DUPLEX RECEPTACLE D. FLUSH QUAD. RECEPTACLE D. FLUSH 230 VOLT RECEPTACLE ED DUPLEX RECEPTACLE ED DUPLEX RECEPTACLE VITCH RECEPTACLE LET TLET TA OUTLET JSH TELEPHONE/DATA OUTLET TLET RJ45 CONNECT SWITCH F.F. BELOW COUNTER= BC PUSH BUTTON= PB PTER= GFCI UNDER CABINET= UC L= VH VAPOR PROOF= VP ELECTRICAL CONTRACTOR=E.C. KEF BATHROOM EXHAUST FAN=BEF RECIRCULATION PUMP=RCP SDICTION= A.H.J. ROOF TOP UNIT= RTU					KISTING	
		(1) (2) (3) A. B. C. D.	ELECTRICAL RISER KEY EXISTING 200A, 120/208V, 3– BASE BUILDING DISTRIBUTION BASE BUILDING/LANDLORD/OW ANY DISCREPANCIES. BASE BIE NEW 200A(M.L.O), 120/208V, OF PANEL WITH ARCHITECT/OV EXISTING INCOMING FEEDER TO FIELD AND PROVIDE NEW IF FO RISER DIAGRAM GENER/ ABOVE RISER DIAGRAM IS FOR POWER DISTRIBUTION IN FIELD E.C. SHALL VERIFY INCOMING S ELECTRICAL CONTRACTOR TO C COMPANY AND AHJ PRIOR TO E.C. TO VERIFY OPERABLE CON FOUND IN OPERABLE. BASE BI EXISTING ELECTRICAL DISTRIBUT SPACE. POWER RISER DIAGRAM	PHASE, 4-WIRE INCOMING TO THE PROJECT'S SPACE NER FOR EXACT POWER D O ACCORDINGLY. 3-PHASE, 4-WIRE ELECTR WNER. O REMAIN. E.C. TO VERIFY OUND UNDERSIZE OR INOF AL NOTES: REFERENCE PURPOSES C AND INFORM ENGINEER O SERVICE AMPERAGE, WIRE COORDINATE FAULT CURREN COMMENCING ANY WORK. NDITIONS OF EXISTING DEV D ACCORDINGLY. TION TO BE MAINTAINED AN	SHALL REMAIN. E.C. SHAL ISTRIBUTION. REPORT TO E ICAL PANEL "A". E.C. TO EXACT SIZE AND OPERABL PERABLE. BASE BID ACCOR PERABLE. BASE BID ACCOR SIZING AND DISTRIBUTION. IT (Isc) RATING WITH UTILI ICES IN FIELD. REPLACE/R ND UTILIZED TO SERVE PR	L COORDINA NGINEER OI COORDINATE E CONDITION DINGLY. XACT REPANCY.

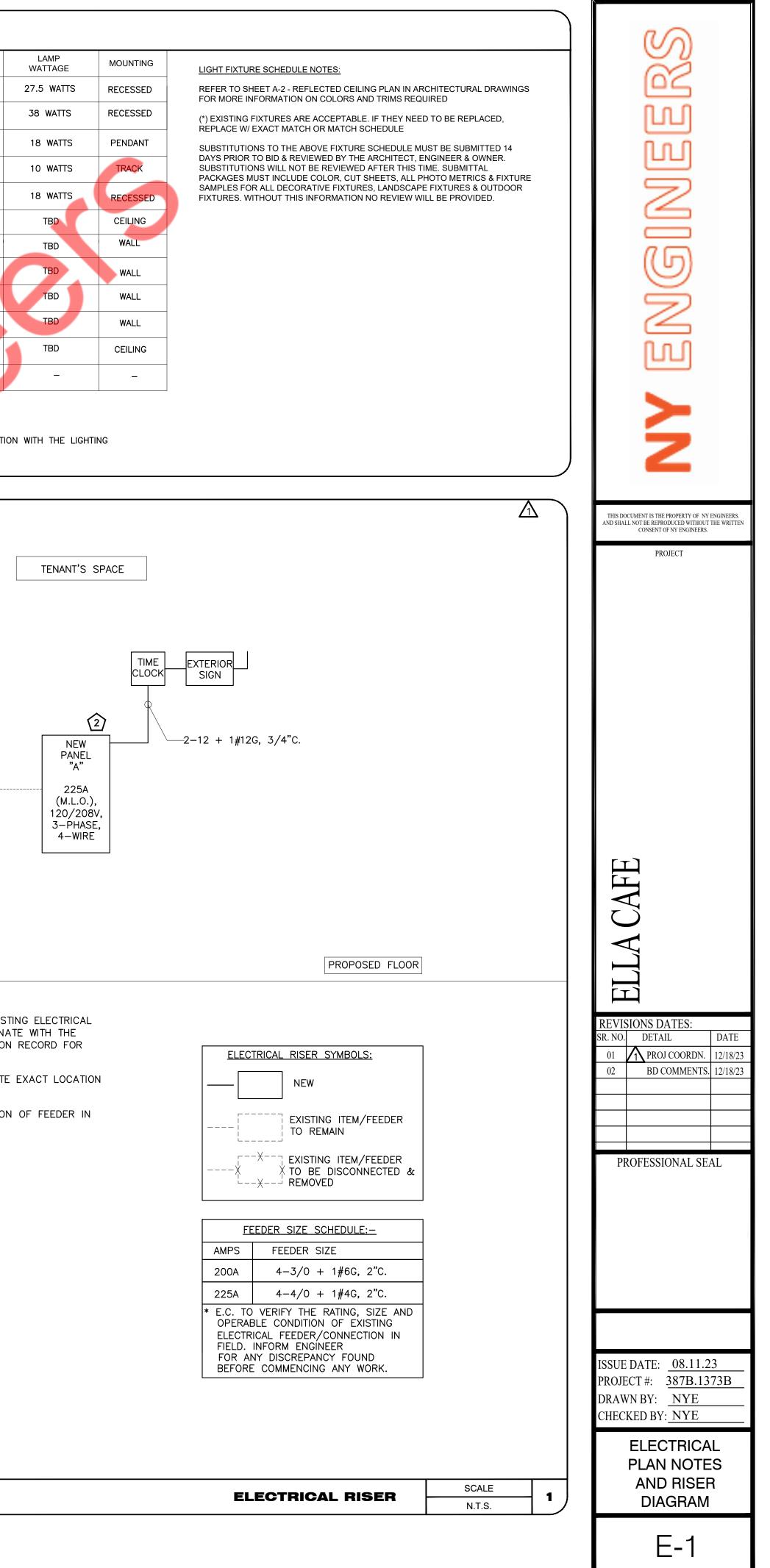
MANUFACTURER

SYMBOL TYPE DESCRIPTION

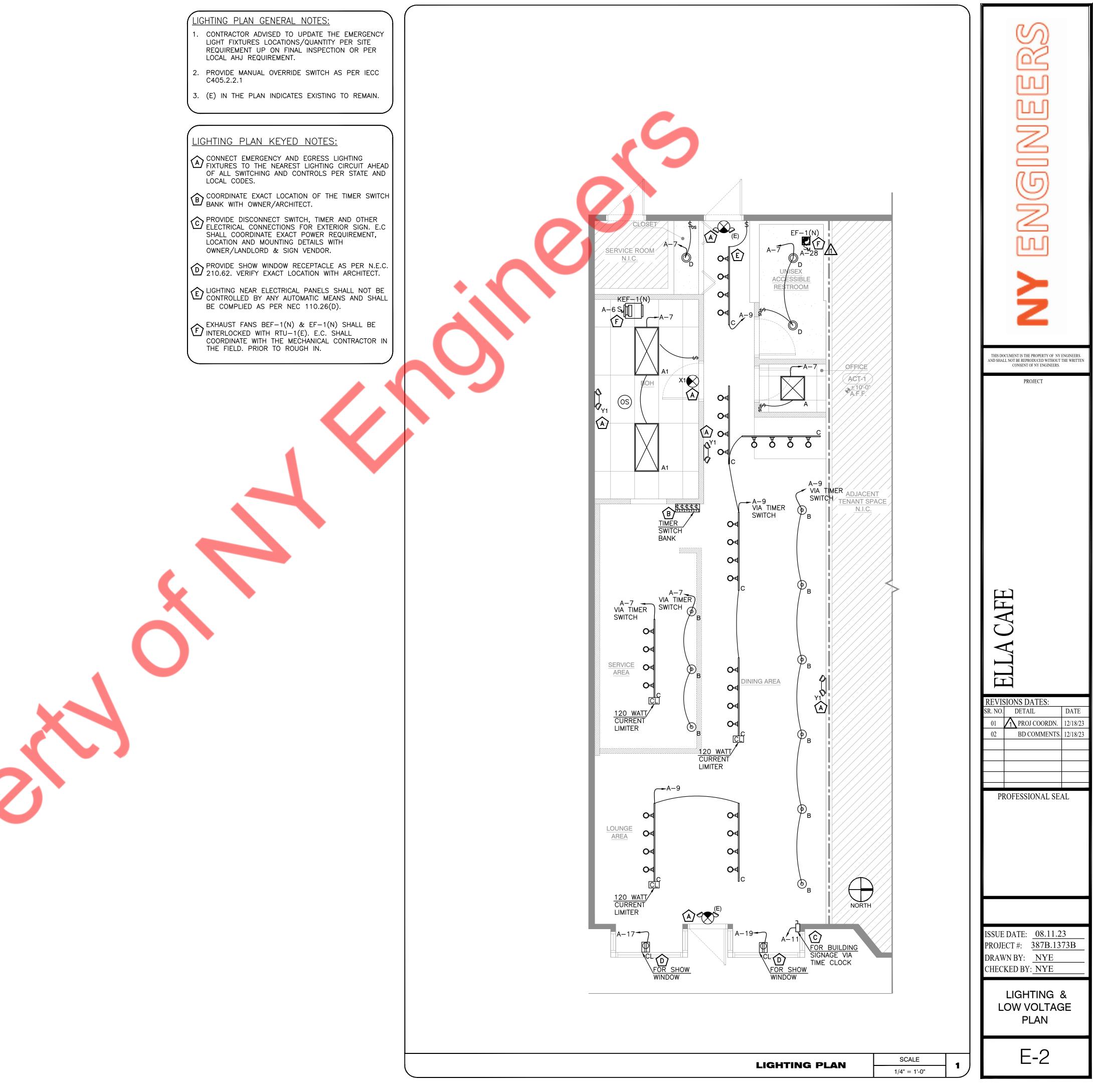
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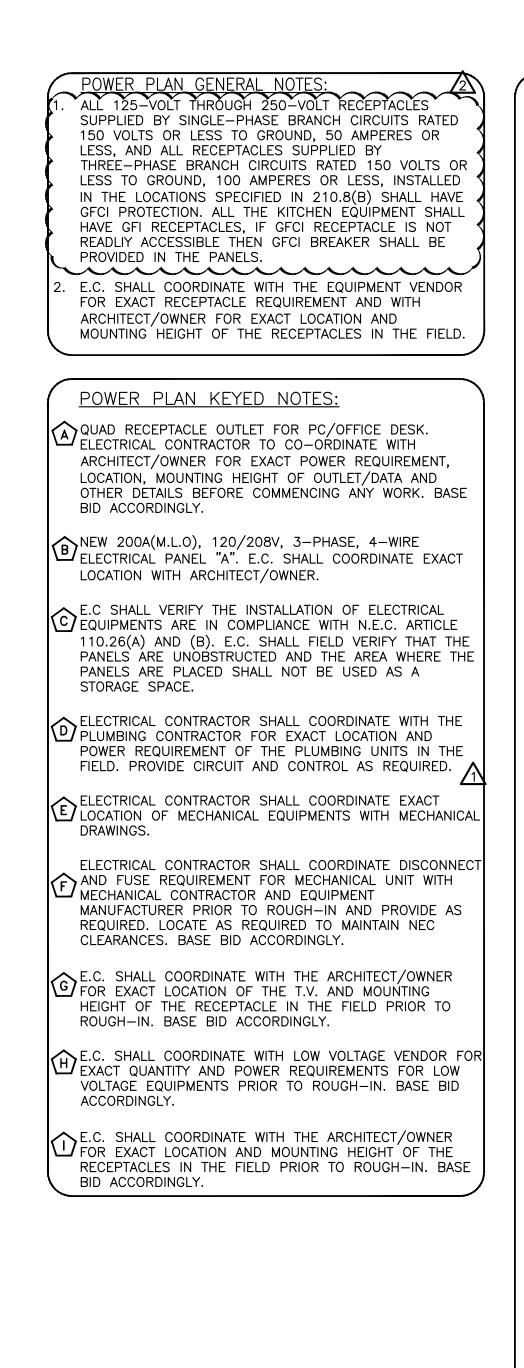
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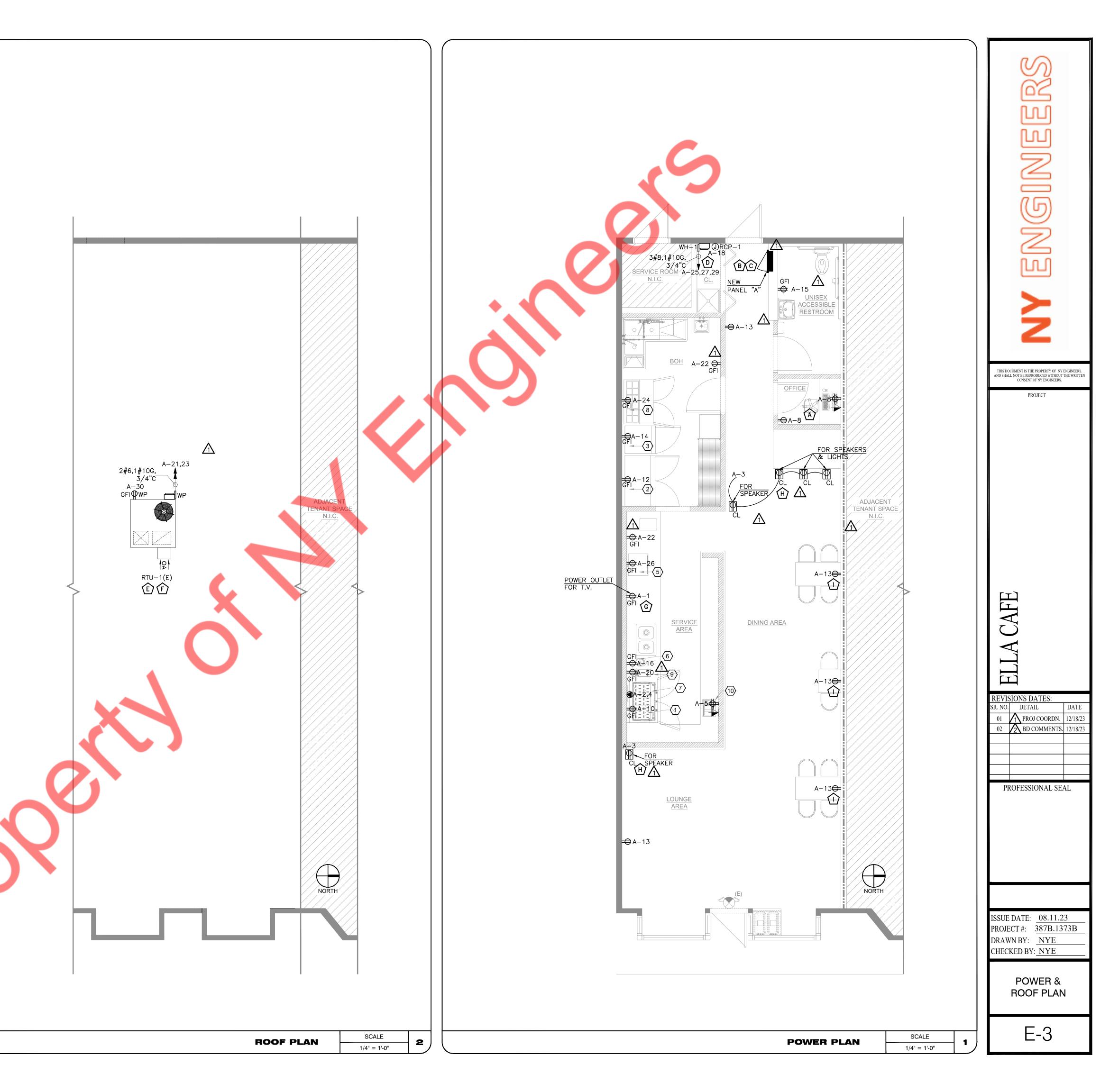
VOLT











PANEL:	A(N)												MOUNTING: R	RECESSED											
208Y/120		VOLTS,	3	PHASE,		4	WIRE						LOCATION: B	30H											
MAIN CB	ΝΔ		MLO:	225A	BUS:	225A	MIN,						FED FROM:	XISTING ELECTRICAL UTILITY	,										
			: MOTOR LOAD, R : REC				,																		
	1				-	-	PF	R PHASE (K\	(Δ)					7010											
CKT NO.	TRIP AMPS	DES	CRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT		B	C C						MINIMUM BRANCH CIRCUIT						LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	D TRIP AMPS	CKT NO.
1	20	RECEPTACLE-T.V.		R	0.18	2-12,#12G,3/4"C	2.88		-		2.70	F			2										
3	20		AKERS & LIGHTS	R	0.90	2-12,#12G,3/4"C		3.60		2-12,#12G,3/4"C	2.70	E	3 WAVE ESPRESSO COFFEE MACHINE_	_(#7) 40/2P	4										
5	20	POS_(#10)		R	1.20	2-12,#12G,3/4"C			1.22	2-12,#12G,3/4"C	0.02	м	KEF-1(N)	20	6										
7	20	LIGHTING-SERVIO OFFICE, RESTROO		L	0.50	2-12,#12G,3/4"C	1.04			2-12,#12G,3/4"C	0.54	R	RECEPTACLES-OFFICE	20	8										
9	20	LIGHTING-DINING	G AREA, HALLWAY	L	0.50	2-12,#12G,3/4"C		0.65		2-12,#12G,3/4"C	0.15	E	UNDERCOUNTER REFRIGERATOR_(#1)	20* 2	A 10										
11	20	EXTERIOR SIGNA	GE/TIMECLOCK	L	1.20	2-12,#12G,3/4"C			1.56	2-12,#12G,3/4"C	0.36	E	REACH-IN REFRIGERATOR_(#2)	20	12										
13	20	CONVENIENCE R	ECEPTACLES	R	0.72	2-12,#12G,3/4"C	0.90			2-12,#12G,3/4"C	0.30	E	REACH-IN FREEZER_(#3)	20	14										
15	20	RECEPTACLE-RES	TROOM	R	0.18	2-12,#12G,3/4"C		0.43		2-12,#12G,3/4"C	0.25	E	ESPRESSO COFFEE MACHINE_(#6)	20	16										
17	20	SHOW WINDOW	RECEPTACLE	L	1.80	2-12,#12G,3/4"C			1.89	2-12,#12G,3/4"C	0.09	М	RECIRCULATION PUMP(RCP-1)	20	18										
19	20	SHOW WINDOW	RECEPTACLE	L	1.80	2-12,#12G,3/4"C	3.12			2-12,#12G,3/4"C	1.32	E	BLACK BULK COFFEE GRINDER_(#9)	20	20										
21	60/2P	RTU-1(E)		н	5.51	2-6,#10G,3/4"C		5.87		2-12,#12G,3/4"C	0.36	R	RECEPTACLES-BOH & SERVICE AREA	20	22										
23	00/21			н	5.51	2 0,#100,574 C			5.79	2-12,#12G,3/4"C	0.28	E	REFRIGERATED SANDWICH PREP TABL	.E_(#8) 20	24										
25				E	4.10		5.70			2-12,#12G,3/4"C	1.60	E	COUNTERTOP CONVECTION OVEN_(#5	5) 20	26										
27	50/3P	WATER HEATER(ATER HEATER(WH-1) E 4.10		3-8,#10G,3/4"C	4.1			2-12,#12G,3/4"C	0.02	М	EF-1(N)	20	28											
29				E	4.10				4.28	2-12,#12G,3/4"C	0.18	R	RECEPTACLE-ROOF	20	30										
31	20	SPARE					0.00						SPARE	20	32										
33	20	SPARE						0.00					SPARE	20	34										
35		SPACE							0.00				SPACE		36										
37		SPACE					0.00						SPACE		38										
39		SPACE						0.00					SPACE		40										
41		SPACE							0.00				SPACE		42										
			TOTAL CONNECTED	LOAD (KVA)			13.64	14.67	14.73																



ITEM NO.	DESCRIPTION	VOLTAGE	PHASE	AMPS	KVA	PLUG TYPE
1	UNDERCOUNTER REFRIGERATOR	115	1	1.33	0.15	NEMA 5-15P
2	REACH-IN REFRIGERATOR	115	1	3.14	0.36	NEMA 5-15P
3	REACH-IN FREEZER	115	1	2.62	0.30	NEMA 5-15P
5	COUNTERTOP CONVECTION OVEN	120	1	13.30	1.60	NEMA 5-15P
6	ESPRESSO COFFEE MACHINE	110	1	3.00	0.25	NEMA 5-15P
7	3 WAVE ESPRESSO MACHINE	208	2	25.00	5.40	L6-30
8	REFRIGERATED SANDWICH PREP TABLE	115	1	2.40	0.28	NEMA 5-15P
9	BLACK BULK COFFEE GRINDER	115	1	11.00	1.32	NEMA 5-15P
10	POS	120	1	10.00	1.20	NEMA 5-15P
PAN	EL SCHEDULE NOTES:	~~~~				

* INDICATES GFCI BREAKER PROVISION

	GINEE	
	UMENT IS THE PROPERTY OF NY EN NOT BE REPRODUCED WITHOUT TH CONSENT OF NY ENGINEERS.	
	PROJECT	
REVIS SR. NO.	IONS DATES:	DATE
01 02 PR	* 	2/18/23 2/18/23
PROJE DRAW	DATE: <u>08.11.23</u> CT #: <u>387B.137</u> N BY: <u>NYE</u> XED BY: <u>NYE</u>	<u>3B</u>
	PANEL SCHEDULES E-4	

PANEL SCHEDULE & EQUIPMENT SCHEDULE

1

PLUMBING NOTES

1.	ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
2.	PLUMBING CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING OR PRECEDING WITH WORK.
3.	ALL EQUIPMENT WHICH IS TO REMAIN MUST BE REFURBISHED TO A LIKE NEW CONDITION.
4.	PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
5.	ALL MATERIALS SHALL BE NEW.
6.	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.
7.	REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
8.	PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
9.	DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
10.	ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
11.	VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
12.	EXPOSED WATER PIPING SHALL BE TYPE "L" COPPER FOR 2" AND UNDER. WATER PIPING IN WALLS AND UNDERGROUND MAY BE "PEX" TYPE PIPING THAT MEETS ANSI/NSF STANDARD 61.
13.	SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE PVC BUT MAY NOT RUN THRU RATED ASSEMBLIES OR IN PLENUMS.
14.	ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
15.	FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE GROUP AS PER CODE AND WITH GOOD ENGINEERING PRACTICE.
16.	DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS; EXCEPT AT WATER HEATER AS PER CODE.
17.	ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD.
18.	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 AS PART OF THE PLUMBER'S WORK.

19. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFE PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY. CORRECTION DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE WITHIN 72 HOURS OF NOTIFICATION SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAN BEEN DAMAGED. PROVIDE COPY TO LL.

20. STUDOR MINI/MAXI AIR ADMITTANCE VALVES MAY NOT BE USED AS AN ALTERNATE TO VENT PIPIN ROOF

21. PROVIDE CHROME PLATED COMBINATION COVER PLATE AND CLEAN OUT PLUG OR ACCESS PANEL FOR CLEANOUTS.

22. NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE US RETURN AIR PLENUMS.

23. NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL OR ELEVATOR EQUIPMENT F

24. WATER PIPING INSULATION SHALL BE 1" THICK ARMAFLEX INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR ALL HOT WATER PIPING. WHERE DOMESTIC WATER TEMPERA CAN CAUSE SWEATING, ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX INSULATION.

25. CONDENSATE DRAIN LINES TO BE RUN UNDER SLAB IN PVC SCH40 PIPE AND STUBBED OUT OF WALL TIE-IN OF A/C TO BE BY OTHERS. PVC PIPING WITH 1/2" THICK ARMAFLEX INSULATION MAY BE USED LOCATIONS WHERE ALLOWED BY LOCAL CODES. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATION PIPING. PVC WILL BE MIN. SCHEDULE 40 FOR SIZE AND LOCATION OF PIPING. PVC WILL BE MIN. SCHE

- 26. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF. 27. NO JOINTS UNDERGROUND FOR COPPER.
- 28. PLUMBING FIXTURES SHALL COMPLY WITH FBC-PLUMBING, 7TH EDITION(2020).
- 29. WATER HAMMER ARRESTORS AS PER FBC-PLUMBING, 7TH EDITION(2020).
- 30. PLUMBING CONTRACTOR SHALL REVIEW ALL BID DOCUMENTATION.

31. PLUMBING CONTRACTOR SHALL REVIEW WALL FINISHES @ LOCATION REQUIRING BARRIER-FREE CO (EXAMPLE: CENTER LINE TO TOILET).

32. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WIT DAYS AFTER THE DATE OF ACCEPTANCE. PROVIDE A COPY TO LL.

33. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNE PROVIDE A COPY TO LL.

PLUMBING REQUIREMENTS

•ANY BELOW GRADE WATER LINES TO BE PEX (NO JOINTS BELOW GRADE) AND SLEEVED, OR AS PER AHJ.

•ALL FLOOR DRAINS/SINKS TO HAVE A TRAP PRIMER OR TRAP GUARD.

•PROVIDE FCO'S AT ANY SANITARY SEWER AND GREASE LINE CONNECTIONS TO THE MAIN LINE (OR EXISTING RISERS). •EXTEND VTRS (NEW & EXISTING) TO ALIGN WITH NEAREST PARAPET HEIGHT OR 60" ABOVE ROOF SURFACE, WHICHEVER IS LOWER

•CONSOLIDATE SEWER LINES (SAN. & GREASE) AND OTHER BELOW GRADE UTILITIES/INFRASTRUCTURE INTO AS FEW TRENCHES (12" MIN.) AND BRANCH LINES AS POSSIBLE, OR AS PER AHJ, AND REINFORCE AS PER LL'S INSTRUCTIONS.

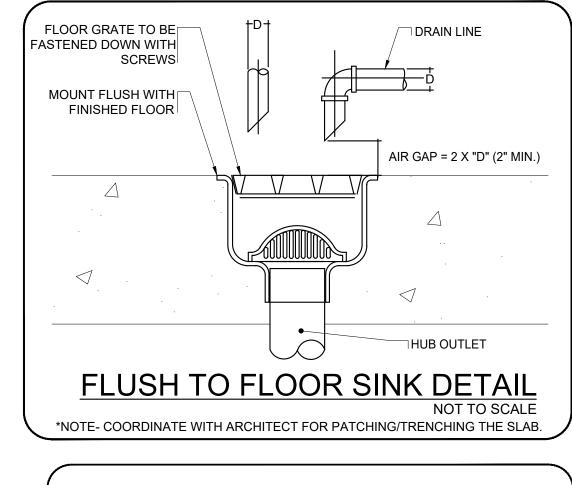
•WATER LINES WITHIN DEMISING WALLS TO BE COPPER, PEX, OR PER AHJ, WHICHEVER IS MORE STRINGENT.

•ENSURE WATER SUBMETER IS IN WORKING ORDER AND REPAIR/REPLACE AS NECESSARY. IF ONE IS NOT ALREADY IN PLACE, PROVIDE AND INSTALL WATER SUBMETER, AS PER PROPERTY MANAGEMENT'S REQUIREMENTS WITH SHUTOFF VALVE TO IMMEDIATELY FOLLOW, MUST HAVE A NON-RESETTABLE, REMOTE READER, PLACED AT A LEVEL THAT CAN BE READ WITHOUT USE OF A LADDER OR STEPSTOOL, AND HAVE A MULTIPLIER OF 1.

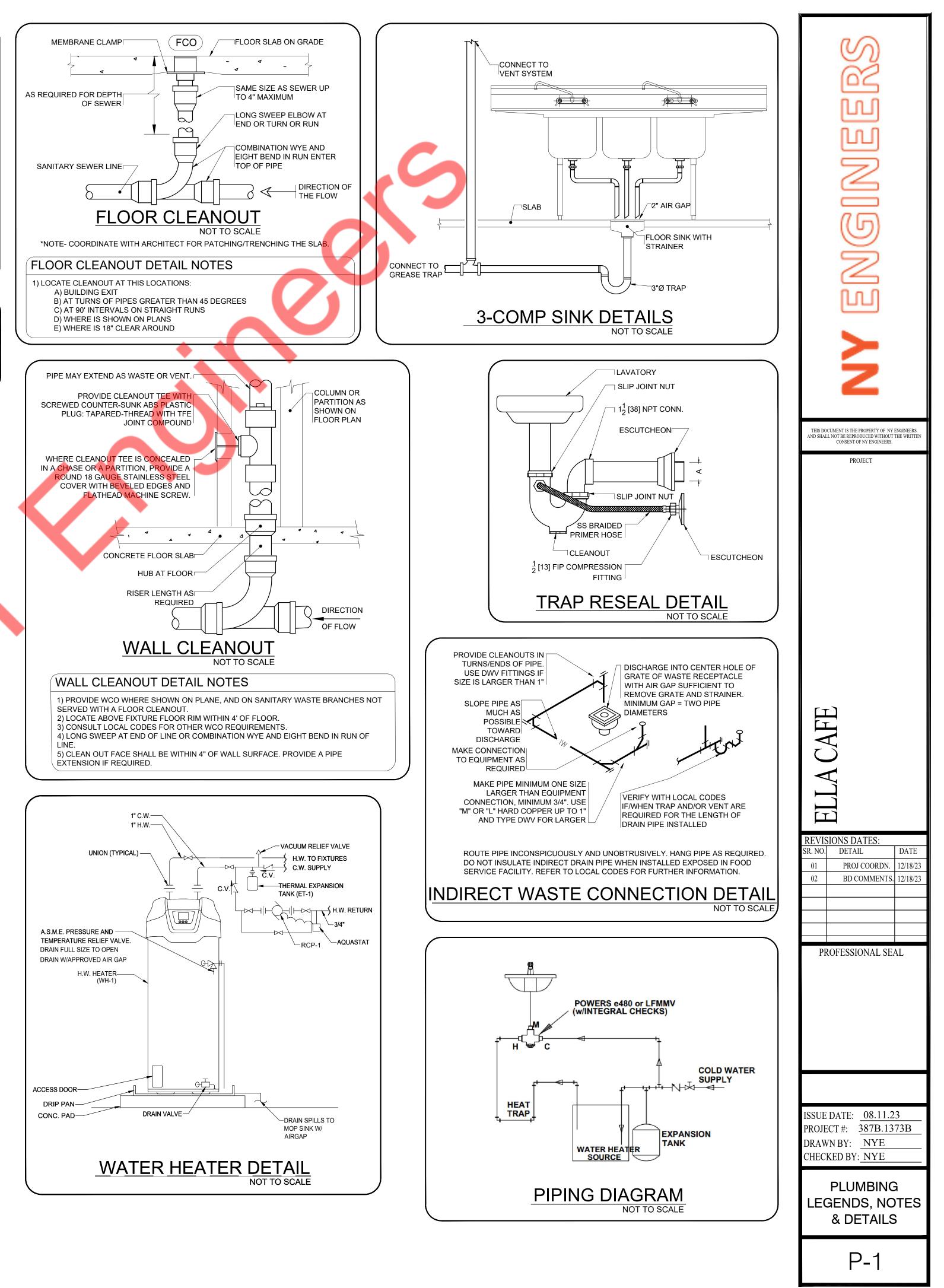
PLUN	IBING L	EGEND			
<u> </u>	√— —√	SANITARY SEWER PIPING			
∽—- v	- — — -5	VENT PIPING			
∽ -gsa	м — — у	GREASE SANITARY SEWER PIPING			
<u> </u>	<u> </u>	DOMESTIC COLD WATER PIPING			
ç	<u></u>	HOT WATER PIPING			
ç	<u>\</u>	HOT WATER RETURN PIPING			
<u>۲</u>)	PIPE UP			
<u> </u>)	PIPE DROP			
<u></u> - −EΧ.0	cw\$	EXISTING DOMESTIC COLD WATER PIPING			
E		CAPPED END OF PIPE			
FCO 🕤)	FLOOR CLEAN OUT			
-	-xx	P-TRAP			
S.C	D.V.	SHUT-OFF VALVE			
C'	W	DOMESTIC COLD WATER			
н	W	DOMESTIC HOT WATER			
HV	WR	DOMESTIC HOT WATER RETURN			
DC	2VA	DOUBLE CHECK VALVE ASSEMBLY			
	\triangleleft	GATE VALVE			
		CHECK VALVE			
		BALANCING VALVE			
Д		WATER HAMMER ARRESTER			
I.W.		INDIRECT WASTE			
		FLOOR SINK			
		POINT OF CONNECTION			
		THERMOSTATIC MIXING VALVE			

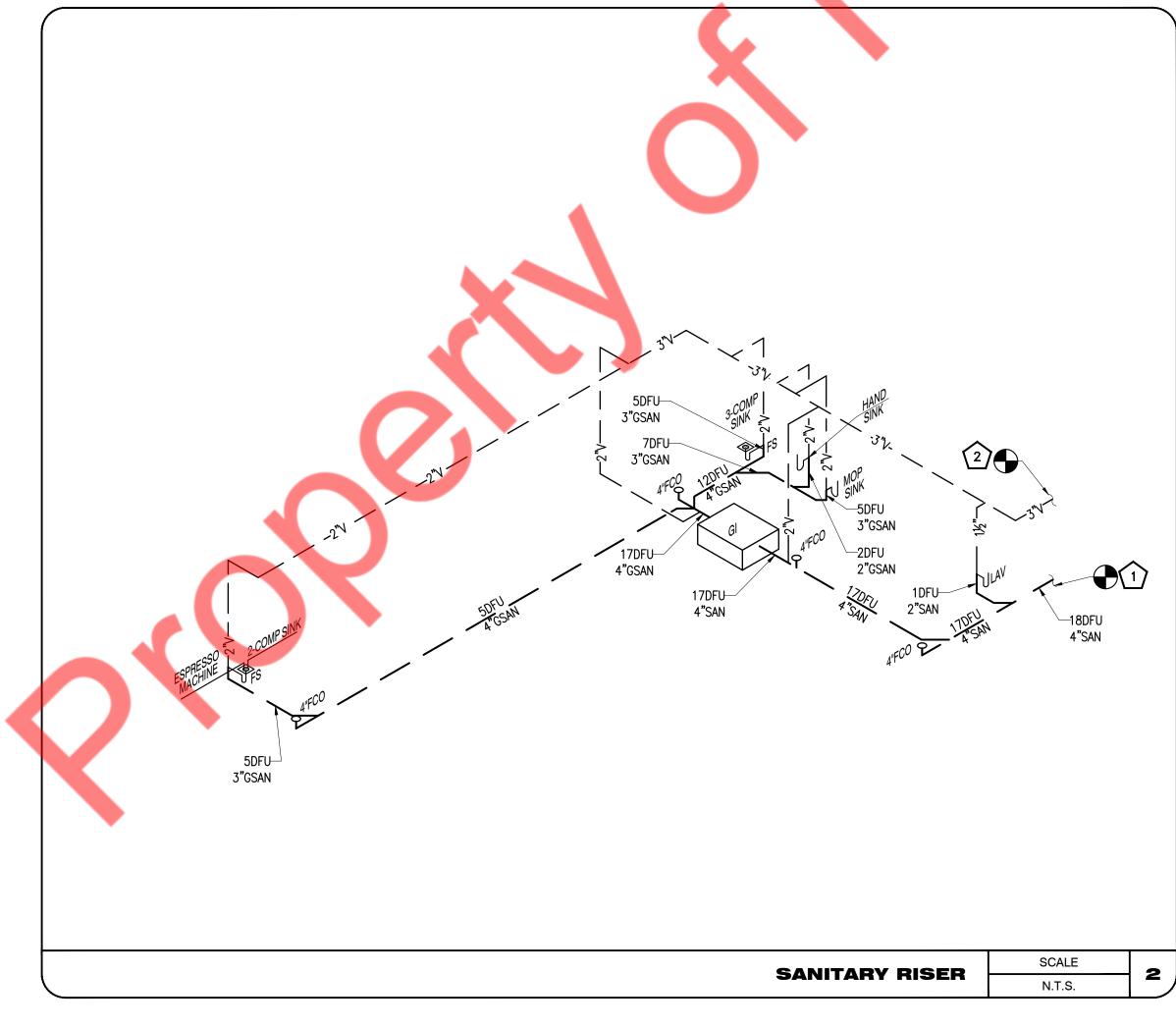
GRE	ASE INTE	RCEPTOR	SCI
ITEM	SERVICE	FLOW RATE (GPM)	GREASE
REASE INTERCEPTOR (GI)	KITCHEN WASTE	50	2
NOTE- CONTRACTOR TO GREASE TRAP AS	PROVIDE ALL REQ PER SITE CONDITI		S FOR SA

	$\mathbf{k}_{\mathbf{k}}$	CHECK VALVE	Ξ			OONGEI))/A T		NOT	EC			
AND		BALANCING V	/ALVE		ENERGY	CONSEI	IVAI		NUT	LЭ			
AM,			IER ARRESTER		1. AS PER 2020 FBC FROM A WATER H	-ENERGY CON			E (ADOP) C404	.4, Pll
FOR A ANY	 I.W.	INDIRECT WAS			PIPE SHALL BE INSULATION THICK	SULATED IN AC							
VE			012							29			
RU	FLOOR SINK POINT OF CONNECTION				FLUID	PE INSULATION THICKNESS ION CONDUCTIVITY NOMINAL PIPE OR TU SIZE (INCHES)					BE		
					OPERATING TEMPERATURE RANGE AND			MEAN		4 70	1½ TC		
AS		THERMOSTATI	IC MIXING VALV	Έ	USAGE (°F)	BTU· IN./ (H· FT2· °F		RATING PERATU °F	RE, <1	<1½		<8	<u>≥</u> 8
					141-200	0.25-0.29		125	1.5	1.5	2	2	2
MS.					105-140	0.21-0.28		100	1.0	1.0	1.5	1.5	1.5
RES				$\overline{}$	40-60	0.21-0.27		75	0.5	0.5	1.0	1.0	1.0
	OPE OF \	NORK			2.AS PER 2020 FBC- AUTOMATIC CONT	ENERGY CONS	ERVATIO	ON CODE	E(ADOPT	SIECO	C 2018),	C404.6	5.1,
COORDI		ASE INTERCEPTC			3.AS PER 2020 FBC- SHALL HAVE CON A. THE CONTROL ACTION OF A U USER OF A FIX FIXTURE FITTIN	TROLS THAT CO SHALL START 1 SER OF A FIXT TURE OR SENS IG OR APPLIAN	OMPLY W THE PUM JRE OR J ING THE CE.	VITH BOT P UPON APPLIAN FLOW O	TH OF TH RECEIVI CE, SEN F HOT C	HE FOL ING A S ISING DR TEN	LOWIŃ SIGNAL THE PR IPEREL	G: FROM ESENC WATE	THE CE OF ER TC
					B. THE CONTROL	SHALL LIMIT TH PIPING TO 104°F	E TEMPE ⁻ (40°C).	ERATURE	E OF THI	E WAT	ER ENT	ERING	THE
30	GREAS	SE INTER	CEPTOR	GREASE CARAC		R	(
0 IT GREASE IN (NOTE- COP	EM TERCEPTOR KIT GI) NTRACTOR TO PRO	SERVICE FI	LOW RATE (GPM) 50 RED ACCESSORIE	GREASE CAPAC (LBS) 439.5	ITY MANUFACTURE							Ň	
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FIXTURE BRANCH SCHEDULES						
COLD WATER	HOT WATER	WASTE	VENT			
E		E	E			
1/2"	1/2"	2"	1-1/2"			
1/2"	1/2"	3"	2"			
-	WATER E 1/2"	WATER WATER E 1/2" 1/2"	WATER WATER WASTE E E 1/2" 1/2" 2"			





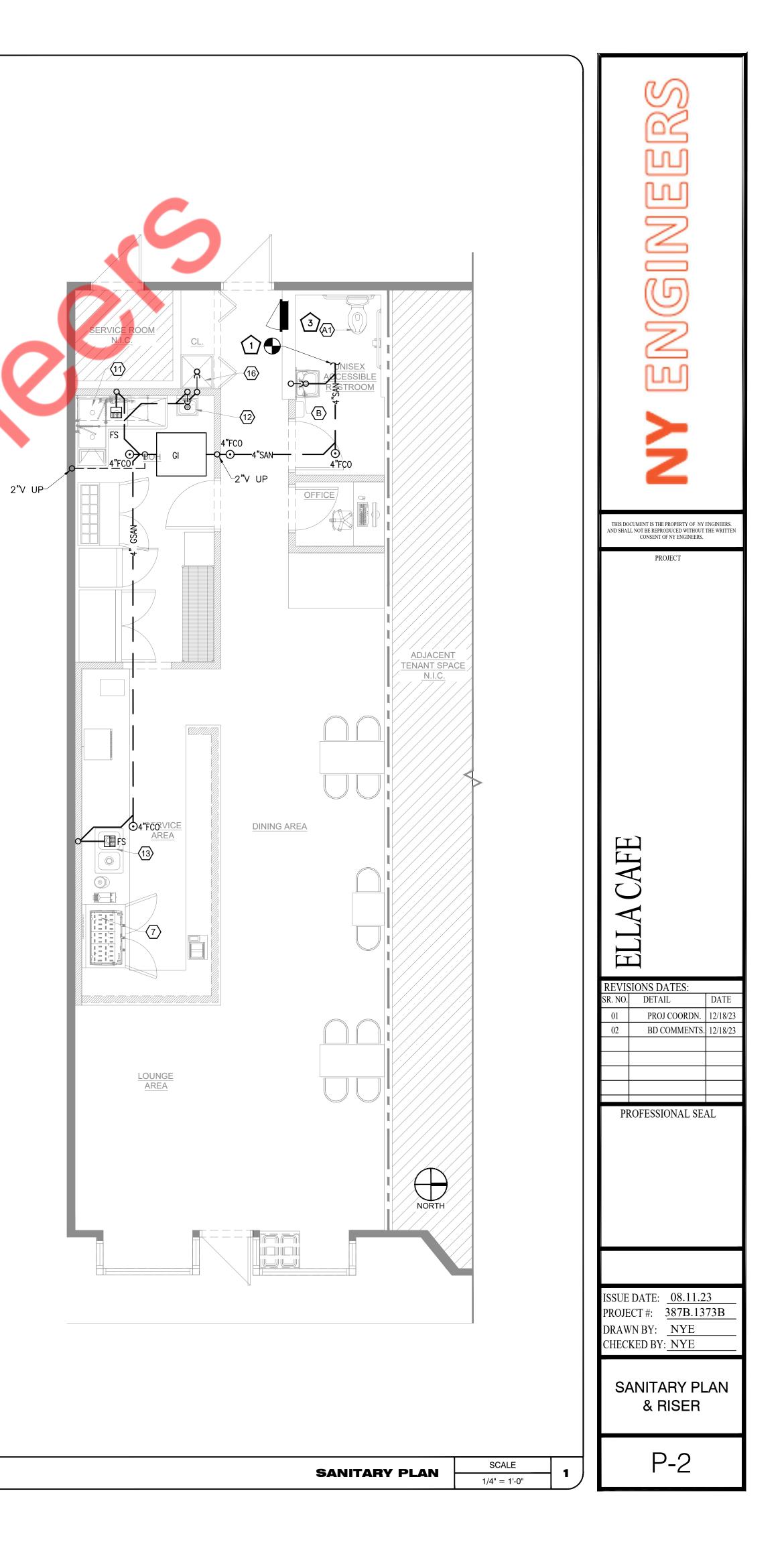
SANITARY PLAN & RISER KEY NOTE

- CONNECT NEW 4" SANITARY WASTE PIPING TO EXISTING SANITARY LINE OF ADEQUATE SIZE IN SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION, ROUTING AND INVERT OF EXISTING SANITARY LINE AND MAKE NECESSARY CHANGES IF REQUIRED.
- CONNECT NEW 3" VENT PIPING TO EXISTING VENT LINE OF ADEQUATE SIZE IN SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION AND ROUTING OF EXISTING VENT LINE AND UPGRADE IF REQUIRED.
- EXISTING WATER CLOSET TO BE REMAIN WITH EXISTING SANITARY AND VENT PIPING. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.

GENERAL NOTES

- UNLESS OTHERWISE NOTED, SLOPE OF DRAINAGE SYSTEM TO BE 1/16" PER FOOT OF RUN FOR PIPE 8" AND OVER, 1/8" PER FOOT FOR PIPE 3" TO 6" and 1/4" PER FOOT FOR PIPE 2-1/2" AND SMALLER.
- CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT.
- ALL MATERIAL INDICATED AND IMPLIED ON THESE DRAWINGS SHALL BE NEW UNLESS OTHERWISE NOTED.
- 3. ALL CLEANOUTS TO BE ACCESSIBLE.

SANITARY RISER	SCALE
SANITART RISER	N.T.S.





WATER PLAN &

		RECIRCULATION F	UMP SCHEDULE	
		MANUFACTURER & MODEL EQUIPMENT TAG	GRUNDFOS UP 15-18 B5 RCP-1	
		STATUS GPM WATER TEMP.(°F) PUMP TYPE	NEW 2 140 INLINE	
		MHP V/PH/HZ RPM	85 WATTS 115/1/60 2280	
		SERVICE FACTOR NOTE: PROVIDE AQUA STAT TIMER KIT FOR THE T CONTROL OF HOT W. COORDINATE ELECT REQUIREMENTS FOR ELECTRICAL CONTRA	EMPERATURE	
		NEW STORAG	GE WATER	
		MANUFACTURER MODEL EQUIPMENT TAG	AO SMITH DSE-30A WH-1	
		STATUS CAPACITY QUANTITY	NEW 30 GALLONS 1	
		KW FLOW RATE STANDBY LOSS	12.3 71 GPH* 0.85	
		VOLTAGE AMPERAGE WEIGHT	208/3/60 34.2 218 LBS	
		1. *ELEMENT OPERA TEMPERATURE RISE 2. INSTALL NEW EXPA AMTROL MODEL TH ST-5C-DD, 2.0 (ET-1) CODE REQUIREMEN	NSION TANK ERM-X-TROL	
	GENERAL NO			
	1. CW/HW/HWR PIPING 2020 FLORIDA ENERG ON SHEET P-1).	TO BE PROVIDED WITH IN SY CONSERVATION CODE	ISULATION AS PER (REFER NOTES	
INE TO EXISTING WATER LINE WITH EXISTING WATER METER. ERIFY EXACT LOCATION AND SIZE OF EXISTING WATER LINE & UPGRADE THE SIZE OF EXISTING LINE AND WATER METER IF	 PROVIDE BRANCH PR PROVIDE ACCESS PA SHUT-OFF VALVES AS 	NELS FOR WATER HAMM		
TO BE REMAIN WITH EXISTING CW PIPING. CONTRACTOR TO F EXISTING PIPING. REPLACE IF REQUIRED.	 NEW WATER HEATER CONTRACTOR TO FIE SIZE BEFORE COMME 		WATER SERVICE	
CW PIPING TO THE EXISTING WATER CLOSET PIPING.	SMALLER THAN THE F	NOW IF THE EXISTING SE PROPOSED. CONSIDER L E AND BASE BID ACCORE	PGRADING OF	
				BALA
	1 WATER CLO 1 LAVATORY 1 HAND SINK 2-COMP SINK 3-COMP SINK 1 MOP SINK 1 MOP SINK 1**MISC. @ 0 TOTAL *AS PER 20 **[1-1/4"Ø WATER CONTRACTOR	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 2 4 8 3 0.25 24.25 CODE CE LINE XISTING	
Alt Internet in the second sec	WH-1 1/2" ND SINK 1" 1" 3/4" SIN 1" 1" 3/4" SIN 1" 1" 1" 1" 1" 1" 1" 1" 1" 1"	$\frac{\text{RCP}-1}{\text{ET}-1}$		
COMPLIANT TIC MIXING TO 110°F ORIES AND AND 120°F MP SINK	WATER		SCALE 2	
			N.T.S.	

