

**SCOPE OF WORK**

REUSE EXISTING HVAC UNIT SERVING THE REMODELED SPACE. REUSE THE ENTIRE EXISTING DUCTWORK. RELOCATE AND REUSE THE EXISTING DIFFUSERS AS SHOWN AND PROVIDE NEW DUCTWORK WHERE NECESSARY AND PROVIDE NECESSARY ACCESSORIES FOR COMPLETE HVAC SYSTEMS.

PROVIDE 1 NEW RESTROOM EXHAUST FAN

**GENERAL NOTES**

- A. CONTRACTORS AND SUB-CRONTACTORS 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 INCLUDED IN YOUR SCOPE OF WORK AND CONTRACT AMOUNT.
- B. 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 PROCEEDING WITH WORK.
- C. 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 WORK, AND CHECK/COORDINATE DRAWINGS OF ALL TRADES.
- D. 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 ANY DISCREPANCIES BEFORE STARTING WORK.
- E. 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 MANUFACTURERS STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- F. 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 BY CODE.
- G. 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 PLENUM RATED.
- H. 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 UNEXPECTED DIFFICULTIES.
- I. ALL A/C AND FRESH AIR ROUND EXPOSED DUCTS WILL BE SPIRAL GALVANIZED AND READY FOR PAINTING. ALL RECTANGULAR DUCTS OVER CEILINGS MAY BE SHEET METAL WITH EXTERNAL INSULATION. ALL SG SUPPLY GRILLES WILL BE DOUBLE DEFLECTION WITH VOLUME CONTROLS.
- J. G.C. SHALL CONTRACT LANDLORD-APPROVED ROOFING CONTRACTOR TO FLASH AND SEAL ALL ROOF PENETRATIONS TO MAINTAIN ROOFING WARRANTY.
- K. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- L. 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.
- N. CONTRACTOR TO REUSE THE EXISTING DUCTWORK AS MUCH AS POSSIBLE
- O. ALL INTERIOR AIR DUCTS WITH INSULATION SHALL HAVE A MINIMUM OF THICKNESS OF 1.5", R-6 INSULATION AND EXTERNAL AIR DUCTS SHALL HAVE R-8 INSULATION ACCORDING TO INTERNATIONAL ENERGY CONSERVATION CODE - 2018.
- P. ALL DUCTS WILL MINIMUM 26 GAUGE SHEET METAL WITH EXTERNAL DUCT WRAP INSULATION. ALL DUCTS TO BE MANUFACTURED AND INSTALLED ACCORDING TO ASHRAE AND SMACNA METAL DUCT CONSTRUCTION STANDARD, LATEST EDITION. ALL MATERIALS WILL CONFORM TO NFPA 90A. NO DUCT BOARD ALLOWED.

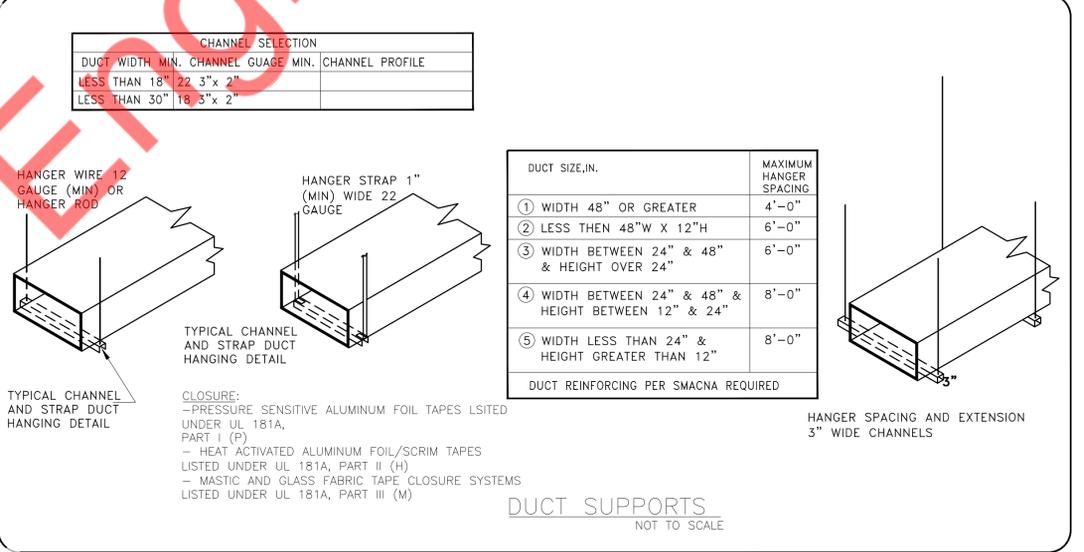
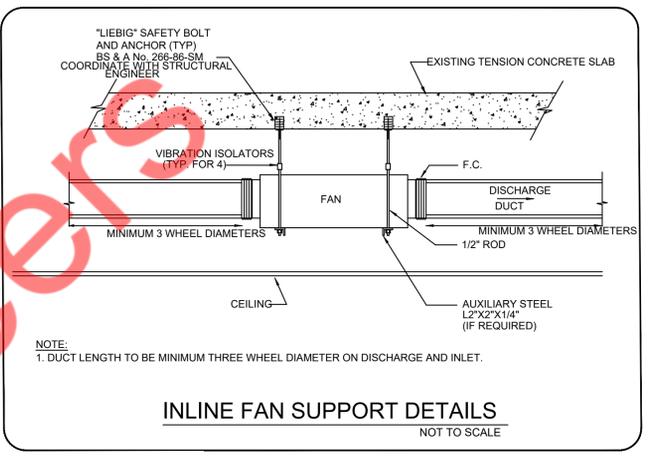
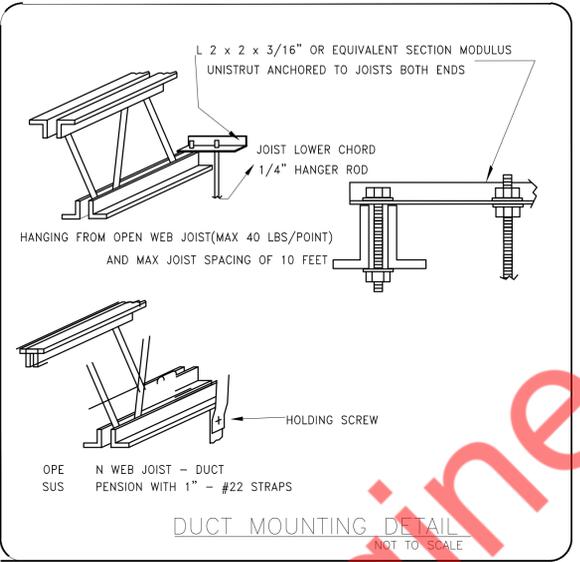
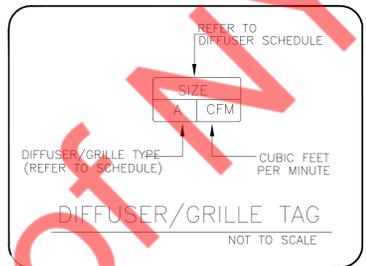
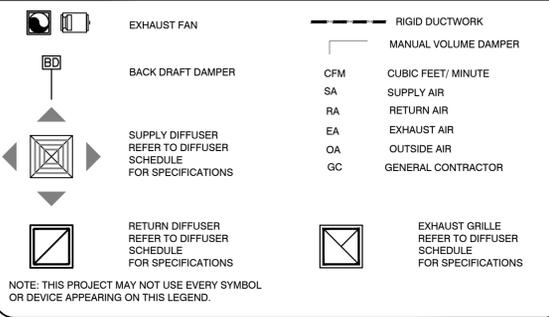
FAN SCHEDULE									
DESIGNATION	STATUS	MANUFACTURER	MODEL	CFM	E.S.P (IN. WG)	FLA (AMPS)	WEIGHT (LBS)	V/Ph/Hz	NOTES
BEF-1(N)	NEW	GREENHECK	SQ-90	280	0.3	0.04(hp)	50	115/1/60	1,2,3

NOTES:  
 1. PROVIDE DISCONNECT SWITCH.  
 2. PROVIDE BACK DRAFT DAMPER.  
 4. FAN SHALL INTERLOCK WITH ROOM LIGHT.

DIFFUSER SCHEDULE		
MANUFACTURER	S.A.E.	TITUS
DESIGNATION	E	C
USE	SUPPLY/RETURN/EXHUAUST	EXHUAUST
MODEL	S.A.E.	56 FL
MOUNTING	S.A.E.	CEILING
LOCATION	S.A.E.	BATHROOM
FACE SIZE	S.A.E.	12"x12"
NECK SIZE	S.A.E.	-
FRAME TYPE	S.A.E.	FLANGED
FINISH	S.A.E.	FIELD PAINTED
NOISE CRITERIA	<30	<30
ACCESSORIES	VOLUME DAMPER	VOLUME DAMPER
NOTES	4,5,6	1,2,3
S.A.E. : SAME AS EXISTING		

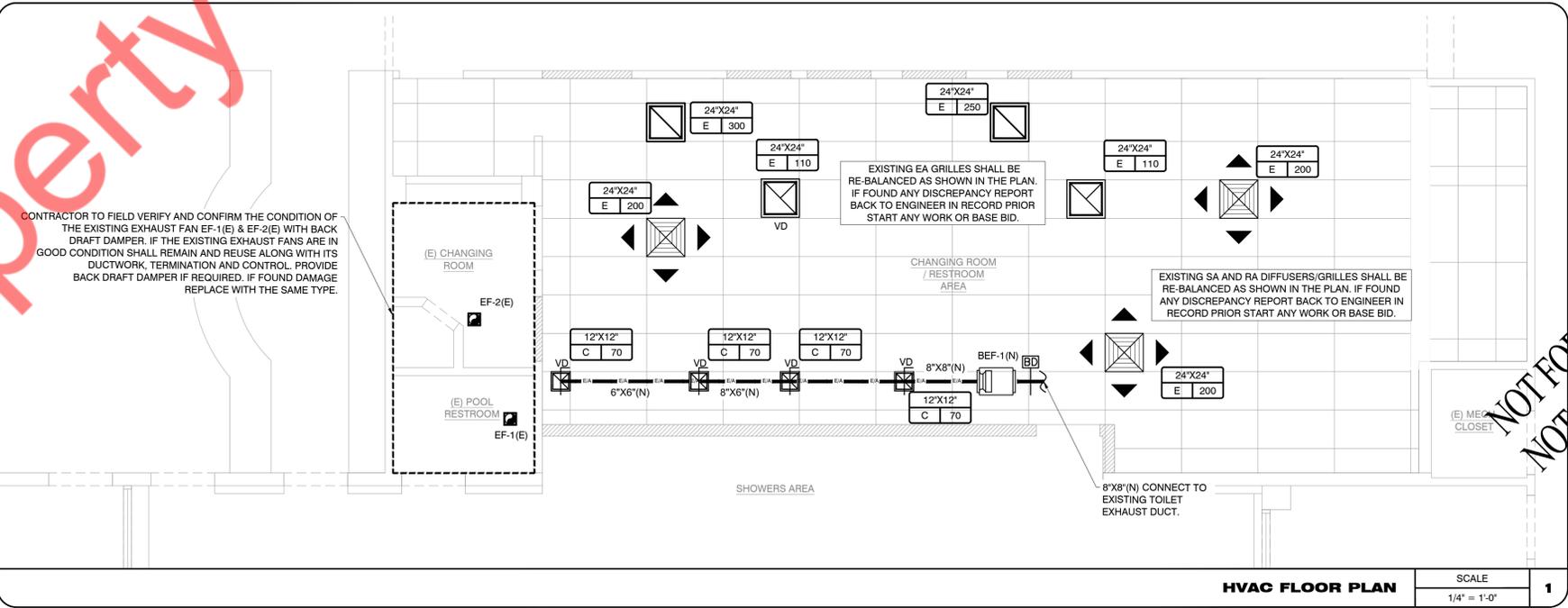
NOTES:  
 1. MAX. NC LEVEL 30 OR LESS.  
 2. PROVIDE SQUARE TO ROUND NECK ADAPTOR.  
 3. SEE ARCHITECTURAL DRAWINGS FOR PAINT AND FINISH.  
 4. PROVIDE VOLUME DAMPER FOR THE EXISTING DIFFUSERS IF EXISTING IS NOT AVAILABLE OR NOT IN GOOD SHAPE.  
 5. CLEAN AND REUSE THE EXISTING DIFFUSERS/GRILLES.  
 6. IF EXISTING DIFFUSERS/GRILLES NOT IN GOOD CONDITION REPAIR/REPLACE WITH SAME TYPE.

**MECHANICAL SYMBOLS**



**HVAC PLAN NOTES**

1. CONTRACTOR TO FIELD VERIFY AND CONFIRM THE EXACT LOCATION OF THE EXISTING HVAC UNIT SERVING OUR SPACE.
2. ALL EXISTING DUCTWORK, DIFFUSERS AND DAMPERS TO REMAIN AND TO BE REUSED. CONTRACTOR SHALL CLEAN AND MAKE THE DUCTWORK AND DIFFUSERS/GRILLES DUST FREE PRIOR STARTING ANY WORK.
3. CONTRACTOR TO FIELD VERIFY THE CONDITION OF THE EXISTING DAMPERS, DIFFUSERS AND PROVIDE WITH NEW ONE OF SAME TYPE IF DAMAGED.
4. CONTRACTOR TO FIELD VERIFY IF ANY PART OF THE DUCTWORK INSULATION IS DAMAGED SHOULD BE REPLACED WITH SAME R VALUE.
5. CONTRACTOR SHALL RELOCATE AS SHOWN AND REUSE ALL THE EXISTING SUPPLY, RETURN AND EXHAUST DIFFUSERS/GRILLES.
6. CONTRACTOR TO RE-BALANCE THE EXISTING DIFFUSERS/GRILLES AS AS SHOWN IN THE PLAN.
7. CONTRACTOR SHALL AIR BALANCE THE SYSTEM TO MAINTAIN POSITIVE PRESSURE IN THE ENTIRE BUILDING.
8. CONTRACTOR TO FIELD VERIFY AND CONFIRM THE SPACE HAS MINIMUM OF 50 CFM OF OUTSIDE AIR TO THE EXISTING UNIT SERVING OUR SPACE.



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HVAC NOTES, SCHEDULES, DETAILS AND FLOOR PLAN

M-1

**SCOPE OF WORK**

EXISTING (1) 200A(MCB), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "A" TO BE REUSED. PROVIDE ALL NECESSARY EQUIPMENT, WIRING AND LIGHTING FOR THE PROPOSED SPACE.

**ELECTRICAL PLAN NOTES**

- ELECTRICAL 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 PROCEEDING WITH WORK.
- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE 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 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 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.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2014 EDITION 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 OWNERS 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.
- ALL EQUIPMENT SHALL BE APPROVED BY UL OR OTHER NATIONALLY RECOGNIZED TESTING COMPANY.
- ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY NEC 250.146
- SUBMIT SERVICE ENTRANCE EQUIPMENT FOR SEPARATE APPROVAL.
- ALL LOW VOLTAGE MUST BE IN CONDUIT TO ABOVE THE DROP CEILING. BRIDAL RINGS OR "J" HOOKS REQUIRED.
- SEPARATE PERMITS ARE REQUIRED FOR ALL LOW VOLTAGE SUCH AS TELEPHONE, DATA, THERMOSTAT, MUSIC, ALARMS ETC.
- SEPARATE PERMIT REQUIRED FOR SIGNAGE.
- PRIOR TO ANY CONSTRUCTION WORK BEGINNING AN ON-SITE MEETING WITH GENERAL CONTRACTORS IS REQUIRED.
- ELECTRICIAN MUST BE ON SITE FOR ALL INSPECTIONS.
- MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING. ALL CONDUCTORS SHALL BE COPPER AND UNLESS OTHERWISE NOTED THHN INSULATION.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, PLASTIC AND CAST ALLOY WITH THREADED BUSH IN WET OR DAMP LOCATIONS, AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- 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.
- ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE N.E.C. OR LOCAL CODES.
- ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE THAT CERTIFICATE OF OCCUPANCY IS ISSUED. WARRANTY SHALL BE PROVIDED IN WRITING. PROVIDE COPY TO LL.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.
- THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES.
- CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
- ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR

- TYPE CIRCUIT BREAKERS.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, DEVICES, ETC. FOR ALL OUTLETS AS INDICATED.
  - 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 IEC.
  - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.
  - ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRED CAULKING REQUIRED OF HIS WORK.
  - ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH WRITTEN DIRECTORIES.
  - ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 24" A.F.F. UNLESS NOTED OTHERWISE, AND VERTICALLY MOUNTED.
  - ALL LIGHT SWITCHES TO BE AT 42" A.F.F.
  - 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.
  - BREAKER AND PANELS - ALL CURRENT CARRYING BUSES SHALL BE COPPER. ALL GROUND BUS BARS SHALL BE COPPER. PANEL BOARD ENCLOSURES SHALL BE FURNISHED WITHOUT PRE-PUNCHED CONCENTRIC HOLES. ALL C.R. RATINGS SHALL BE AS INDICATED ON PANEL BOARD SCHEDULES.
  - DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY EXPOSURE.
  - MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, WITH OVERLOAD RELAYS IN EACH HOT LEG.
  - THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS INDICATES THE CONTRACT SHALL FURNISH AND INSTALL.
  - 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.
  - VOLTAGE DROP FOR ALL BRANCH CONDUCTORS SHALL NOT EXCEED 3%. WHERE VOLTAGE DROP EXCEEDS 3%, CONTRACTOR SHALL INCREASE SIZE OF CONDUCTORS.
  - CONTRACTOR SHALL PROVIDE GFI TYPE BREAKER FOR ALL EXTERIOR 120V CIRCUITS OR GFI PROTECTION -- FOR THE WHOLE CIRCUIT.
  - GAS PIPING SHALL BE BONDED.
  - ELECTRICAL CONTRACTOR SHALL COORDINATE SERVICE ENTRY WITH SERVICE PROVIDER PRIOR TO DETERMINING EXACT LOCATION OF THE METER BOX IN ORDER TO AVOID DISCREPANCIES BETWEEN DRAWINGS AND JOB CONDITIONS.
  - ALL OUTDOOR EQUIPMENT SHALL BE WEATHERPROOF.
  - 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.
  - OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.
  - ABSOLUTELY NO FLEXIBLE CONDUIT IS PERMITTED IN DEMISING WALLS. FLEXIBLE CONDUIT IS PERMITTED FOR SHORT FINAL CONNECTIONS ONLY (6'-0" OR LESS).
  - EXPOSED CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL OR IN RIGHT ANGLES TO THE BUILDING STRUCTURE. DO NOT LOOP EXCESS FLEXIBLE CONDUIT IN CEILING SPACE OR WALL CAVITY. NO CONDUIT TO BE SUPPORTED FROM THE ROOF DECK.
  - CABLE TYPES AC AND NM CABLES ARE NOT ACCEPTABLE. TYPE MC CABLE, ELECTRIC METALLIC TUBING (EMT) AND RIGID GALVANIZED CONDUIT ARE PERMITTED.
  - ALL EQUIPMENT, DEVICES AND FIXTURES SHALL BE GROUNDED IN COMPLIANCE WITH NEC AND UL REQUIREMENTS.
  - ALL PANELS TO BE UL LABELED WITH BOLT-ON TYPE CIRCUIT BREAKERS.
  - 7-DAY 24-HOUR TIME CLOCK IS REQUIRED TO CONTROL STOREFRONT ENTRY LIGHTS, SHOW WINDOW LIGHTS, SHOW WINDOW RECEPTACLES AND STOREFRONT SIGNAGE. ILLUMINATED STOREFRONT SIGNS MUST REMAIN LIT DURING ALL MALL BUSINESS HOURS.
  - 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/TENANTS GC AT TENANT'S SOLE EXPENSE.
  - ALL ELECTRICAL PANELS TO BE MOUNTED ON PLYWOOD BACKER BOARD.
  - PANEL PHASE LOADS TO BE BALANCED WITHIN 10%.

**GENERAL LIGHTING NOTES**

- WHERE LIGHT FIXTURE IS FOLLOWED BY "NL", THIS FIXTURE IS DESIGNATED AS A NIGHT LIGHT AND SHALL BE CONNECTED TO AN UNSWITCHED HOT CONDUCTOR.
- UPPER CASE LETTER NEXT TO LIGHT FIXTURE DENOTES FIXTURE TYPE AND LOWER CASE LETTER DENOTES SWITCHING SCHEME.
- ALL EMERGENCY FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED HOT CONDUCTOR.

**ELECTRICAL LEGEND**

SYMBOL	DESCRIPTION
	EXHAUST FAN
	COMBINATION EXHAUST FAN/LIGHT (REFER TO MECHANICAL PLANS)
	SPEAKERS @ CEILING
	JUNCTION BOX
	CEILING MOUNTED SMOKE DETECTOR 110V., INTERCONNECTED W/ BATT. BACKUP. SMOKE DETECTOR SHALL COMPLY WITH NFPA 72, AND FBC 905.2.
	BATTERY BACK UP EXIT LIGHT
	BATTERY BACK UP EMERGENCY LIGHT
	WALL SWITCH (SINGLE, DOUBLE, )
	WALL SWITCH (3 WAY, 4 WAY)
	WALL SWITCH (TIMER)
	DIMMER WALL SWITCH
	OCCUPANCY SENSOR WALL SWITCH
	DUPLEX RECEPTACLE
	QUADRUPEX RECEPTACLE
	FLOOR MOUNTED, FLUSH DUPLEX RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	ELECTRICAL PANEL
	DISCONNECT SWITCH
	TELEVISION OUTLET
	TELEPHONE/DATA OUTLET
	DATA OUTLET
	30A/240V NON FUSED DISCONNECT SWITCH
	60A/240V NON FUSED DISCONNECT SWITCH
	100A/240V NON FUSED DISCONNECT SWITCH
	MANUAL MOTOR SWITCH

**ABBREVIATIONS:**

ABOVE FINISH FLOOR= A.F.F.  
 BC  
 COUNTER TOP LEVEL= C  
 GROUND FAULT INTERRUPTER= GFCI  
 VERIFY PRIOR TO INSTALL= VH  
 WEATHER PROOF= WP

BELOW COUNTER=  
 PUSH BUTTON= PB  
 UNDER CABINET= UC  
 VAPOR PROOF= VP  
 SALVAGED= S

**EXISTING CONTIDITONS NOTES**

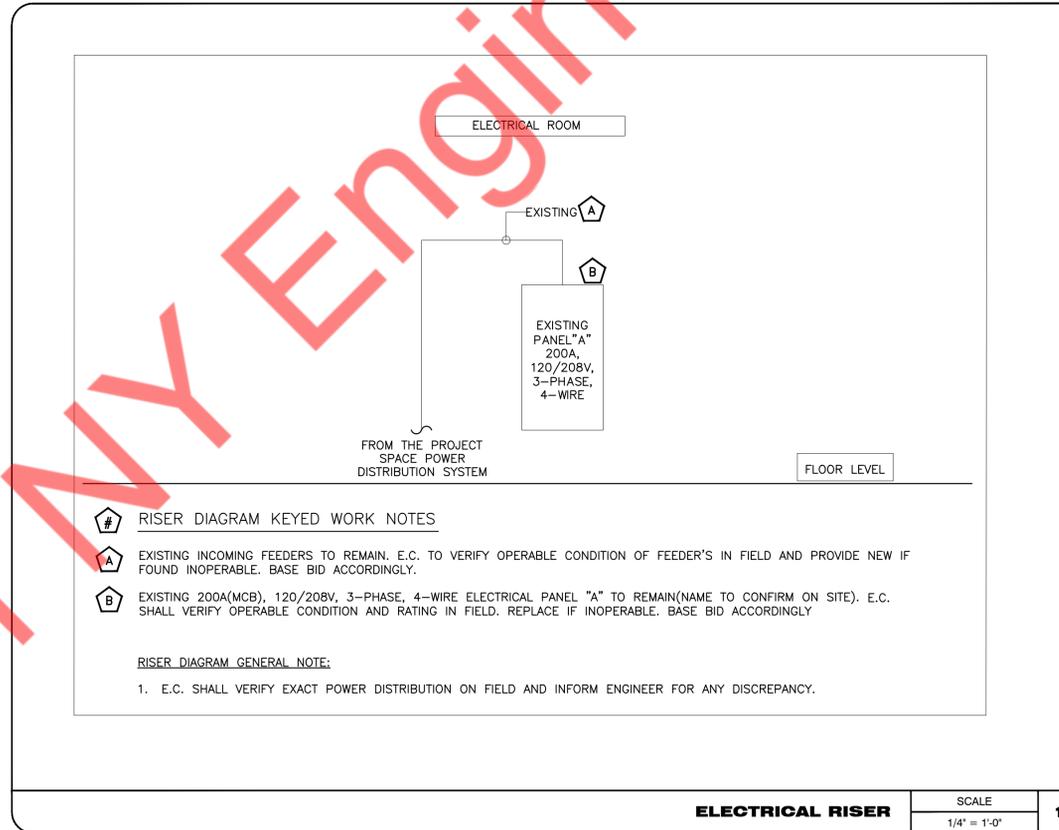
**STOP AND READ**  
 THE CONTRACTOR AND SUB-CONTRACTORS **SHALL NOT INITIATE ANY WORK UNTIL EXISTING FIELD CONDITIONS ARE PROPERLY VERIFIED.** THIS SHALL HOLD TRUE FOR FIRST GENERATION AND 2ND GENERATION SPACES. WHEN DEMOLITION IS REQUIRED, THAT WILL BE PERMITTED TO EXPOSE CONDITIONS. THESE VERIFICATIONS SHALL INCLUDE BUT NOT LIMITED TO: DIMENSIONS BOTH HORIZONTALLY AND VERTICAL, ELECTRICAL SERVICE /PANELS LOCATION AND VOLTS/PHASE, LOCATION/QTY OF ROOF MOUNTED HVAC EQUIPMENT, CONFIRM THAT INTERIOR HVAC HUNG UNITS HAVE PROPER SUPPORT CONNECTIONS FOR EXISTING STRUCTURE, FIRE SPRINKLER MAIN RUNS, TOILET ROOM DIMENSIONS, DOOR SWING FOR DOORS TO REMAIN AND ETC. IF NOT VERIFIED AND DISCOVERED AT A LATER TIME, THE CONTRACTOR SHALL REIMBURSE THE ARCHITECT FOR THE REDESIGN FEE. THIS DOES NOT INCLUDE HIDDEN WORK I.E. PITCH OF SANITARY LINES, ACTUAL CONDITIONS OF EXISTING HVAC EQUIPMENT, STRUCTURAL COLUMNS/BEARING WALLS OR CONDITIONS OF GREASE INTERCEPTORS AND ETC.

**LIGHTING SCHEDULE**

SYMBOL	TYPE	DESCRIPTION	MANUFACTURER	CATALOGUE NUMBER	VOLT	NUMBER OF FIXTURES	WATTS PER LAMP	TOTAL WATTS
	A	2X4 RECESSED LED TROFFER	TBD	TBD	120	15	50 W	120
	(E)	CEILING/WALL MOUNTED EXIT SIGN	TBD	TBD	120	3	5 WATTS LED	5
	X1	EXIT SIGN-EMERGENCY LIGHT COMBO	TBD	TBD	120	2	1 WATTS LED	2
	Y5	EMERGENCY LIGHT	TBD	TBD	120	1	3.6 WATTS LED	18
	Y2	CEILING MOUNTED EMERGENCY LIGHT	TBD	TBD	120	2	2.2 WATTS	-
	-	OCCUPANCY SENSOR	TBD	TBD	-	-	-	-
	(E)	EXISTING FIXTURE SHALL REMAIN	-	-	-	-	-	-

**GENERAL NOTES:**

- REFER TO SHEET A-2 REFLECTED CEILING PLAN IN ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON COLORS AND TRIMS REQUIRED
- (\*) EXISTING FIXTURES ARE ACCEPTABLE. IF THEY NEED TO BE REPLACED, REPLACE WITH EXACT MATCH OR MATCH SCHEDULE



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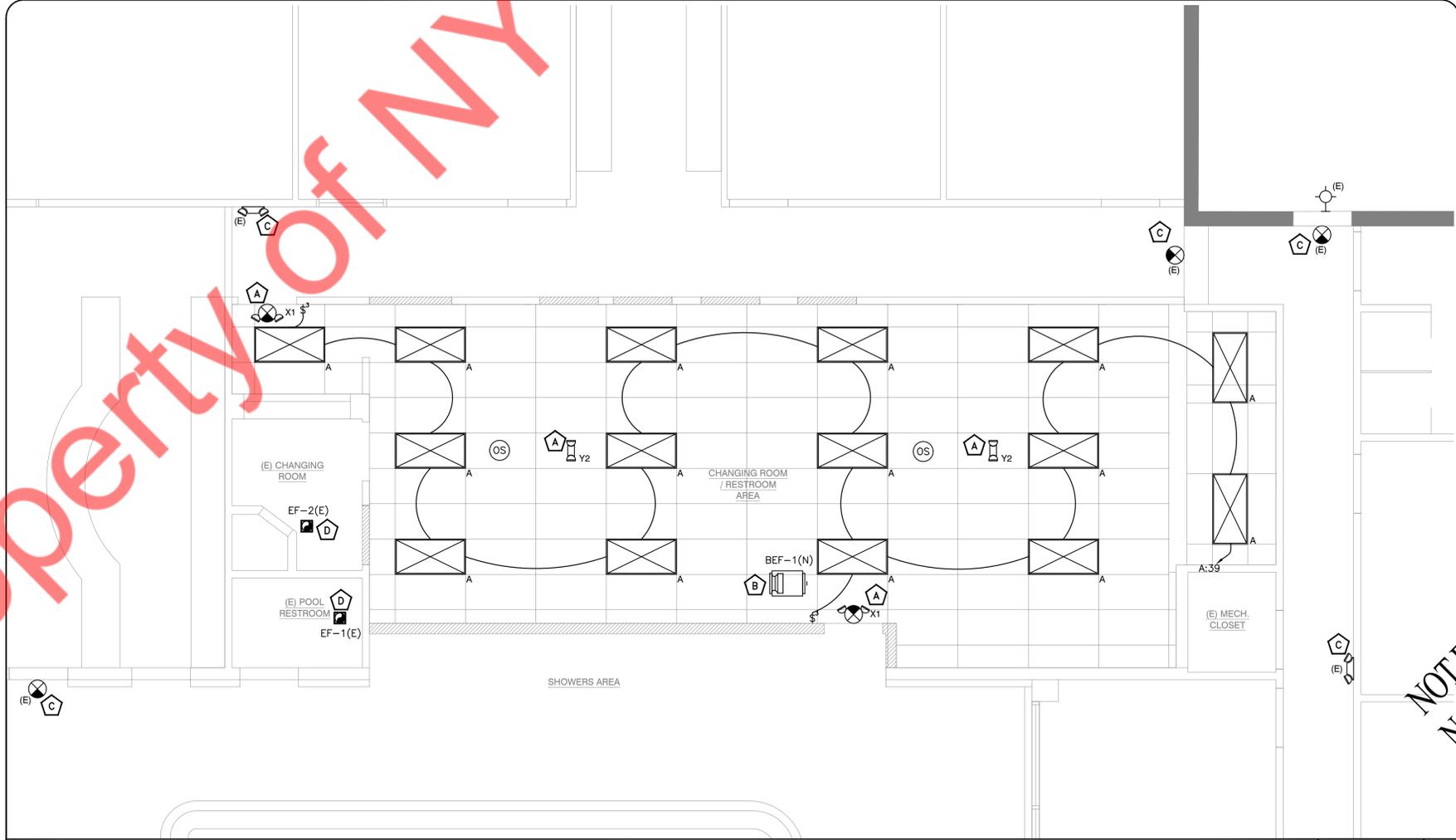
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ELECTRICAL PLAN  
 NOTES AND RISER  
 DIAGRAM

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**ELECTRICAL LIGHTING PLAN KEYED WORK NOTES:**

- A** CONNECT ALL EMERGENCY, EGRESS AND NIGHT LIGHTING FIXTURES TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHING AND CONTROLS AS PER STATE AND LOCAL CODES.
- B** INTERCONNECT EXHAUST FAN BEF-1(N) WITH ROOM LIGHT. COORDINATE WITH MECHANICAL CONTRACTOR.
- C** EXISTING LIGHT FIXTURE & EMERGENCY LIGHTS IN THIS AREA DENOTED BY (E) SHALL REMAIN CONNECTED TO THE RESPECTIVE EXISTING ELECTRICAL PANEL ALONG WITH THEIR CONTROLS. E.C. SHALL VERIFY THE CONTROLS IN FIELD AND REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- D** EXISTING MECHANICAL UNIT SHALL REMAIN CONNECTED TO THE EXISTING ELECTRICAL PANEL. E.C. TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY REQUIREMENT BASED ON FIELD CONDITION. E.C. SHALL VERIFY THE OPERABLE CONDITION OF EXISTING ELECTRICAL CONNECTION. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.



**ELECTRICAL LIGHTING PLAN** SCALE 1/4" = 1'-0" **1**

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ELECTRICAL LIGHTING PLAN

E-2

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PROJECT

MILLER SWIM SCHOOL

REVISIONS DATES:

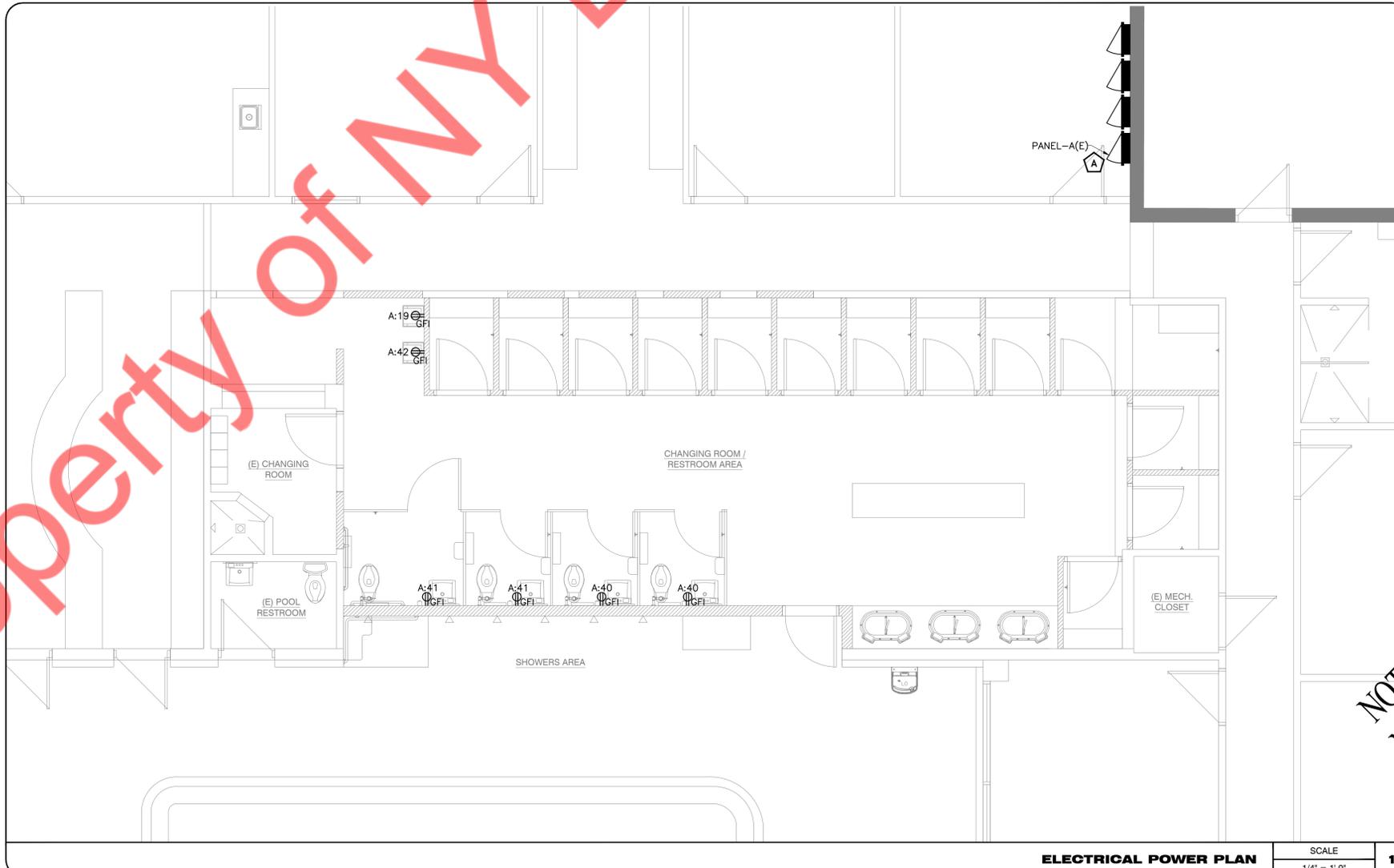

PROFESSIONAL SEAL

**NOT FOR PERMIT OR BID  
NOT FOR CONSTRUCTION**

DATE: 11.16.23  
PROJECT #: 257.1245A20  
DRAWN BY: NYE  
CHECKED BY: NYE

ELECTRICAL POWER PLAN

**ELECTRICAL POWER PLAN KEYED WORK NOTES:**  
 ⚡ 200A(MCB), 120/208V, 3-PH, 4W EXISTING ELECTRICAL PANEL "A" SHALL REMAIN(NAME TO VERIFY ON SITE). CO-ORDINATE LOCATION OF PANEL WITH ARCHITECT/OWNER.



**ELECTRICAL POWER PLAN** SCALE 1/4" = 1'-0" 1

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**ELECTRICAL  
PANEL  
SCHEDULES**

PANEL:	A (E)										MOUNTING:	RECESSED		
208Y/120	VOLTS,	3		PHASE,	4			WIRE						
MAIN CB	200A	MLO	NA		BUS	EXISTING			MIN,	FED FROM:				
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT	PER PHASE (KVA)			MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
						A	B	C						
1	3P-30	EXISTING			EXISTING	0.00			EXISTING			EXISTING	2P-20	2
3							0.00		EXISTING			EXISTING		4
5								0.00		EXISTING				EXISTING
7	20	EXISTING			EXISTING	0.00			EXISTING			EXISTING	20	8
9	20	EXISTING			EXISTING		0.00		EXISTING			EXISTING	20	10
11	20	EXISTING			EXISTING			0.00	EXISTING			EXISTING	20	12
13	20	EXISTING			EXISTING	0.00			EXISTING			EXISTING	20	14
15	20	EXISTING			EXISTING		0.00		EXISTING			EXISTING	20	16
17	20	EXISTING			EXISTING			0.00	EXISTING			EXISTING	20	18
19	20	SWIMSUIT DRYER	E	0.99	2#12, #12G, 3/4"C	0.99			EXISTING			EXISTING	2P-20	20
21	20	EXISTING			EXISTING		0.00		EXISTING			EXISTING	2P-20	22
23	20	EXISTING			EXISTING			0.00	EXISTING			EXISTING	2P-20	24
25	20	EXISTING			EXISTING	0.00			EXISTING			EXISTING	2P-20	26
27	20	EXISTING			EXISTING		0.00		EXISTING			EXISTING	20	28
29	20	EXISTING			EXISTING			0.00	EXISTING			EXISTING	20	30
31	3P-100	SUB PANEL			EXISTING	0.00			EXISTING			EXISTING	2P-40	20
33							0.00		EXISTING			EXISTING		20
35								0.00		EXISTING				EXISTING
37	20	EXISTING			EXISTING	0.00			EXISTING			EXISTING	20	38
39	20	LIGHTING- CHANGING ROOM/ RESTROOMS, BEF-1(N)	L	0.75	2#12, #12G, 3/4"C		1.11		2#12, #12G, 3/4"C	0.36	R	RECEPTACLE- RESTROOM	20	40
41	20	RECEPTACLE- RESTROOM	R	0.36	2#12, #12G, 3/4"C			1.35	2#12, #12G, 3/4"C	0.99	E	SWIMSUIT DRYER	20	42
TOTAL LOAD (KVA)						0.99	1.11	1.35						

**ELECTRICAL PANEL SCHEDULE GENERAL NOTES:**

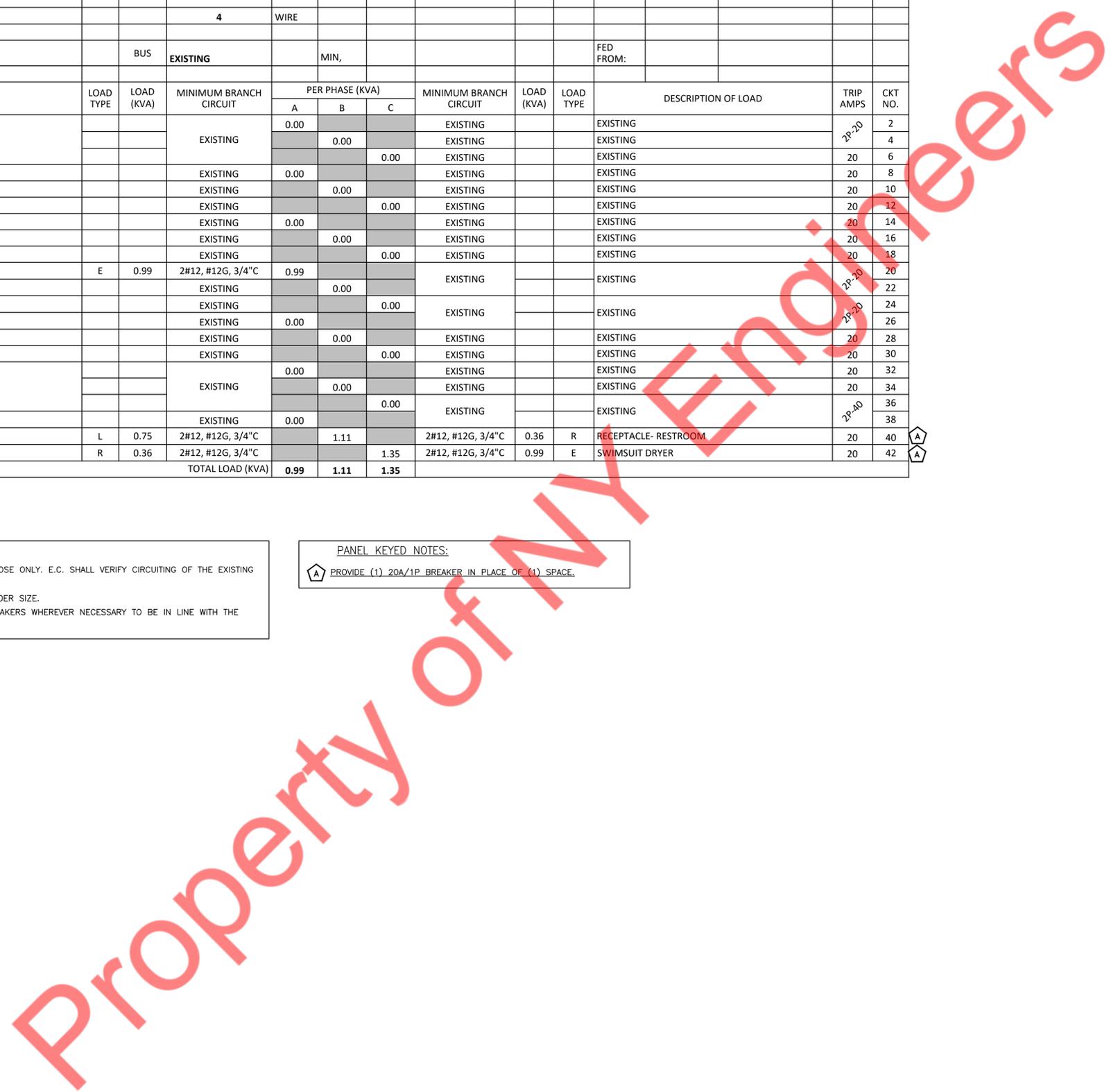
A. ALL CIRCUITING SHOWN IN FOR ELECTRICAL PANEL "A" IS FOR REFERENCE PURPOSE ONLY. E.C. SHALL VERIFY CIRCUITING OF THE EXISTING DEVICES IN FIELD AND INFORM ENGINEER FOR DISCREPANCIES.

B. ELECTRICAL CONTRACTOR TO VERIFY THE EXACT PANEL SIZES AND INCOMING FEEDER SIZE.

C. E.C. SHALL PROVIDE NEW CIRCUIT BREAKERS IN PLACE OF EXISTING CIRCUIT BREAKERS WHEREVER NECESSARY TO BE IN LINE WITH THE PANEL SCHEDULE.

**PANEL KEYED NOTES:**

**A** PROVIDE (1) 20A/1P BREAKER IN PLACE OF (1) SPACE.



**PLUMBING NOTES**

**GENERAL**  
 A) THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS.  
 B) REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.

**SCOPE**  
 EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DETAILS, BOTH AS ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO, BEFORE SUBMITTING HIS BID AS NO ALLOWANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PAGE OF THE GENERAL CONSTRUCTION. INSPECTION OF SITE ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOB SITE, CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

**PERMITS**  
 ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.  
**CODE REQUIREMENTS**  
 ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS OR AS DIRECTED BY THE OWNER, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES WHETHER SO SHOWN OR NOT. ALL MODIFICATIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

**MATERIALS AND WORKMANSHIP**  
 A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHERWISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.  
 B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES. DO NOT JUST ABANDON.

**CODE AND REGULATIONS**  
 EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCONTRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

**PROTECTION OF WORK AND PROPERTY**  
 A) EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT ALL HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.  
 B) EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED TO PROTECT HIMSELF, OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

**CHANGES IN THE WORK**  
 THE TENANT WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK. THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.  
**COOPERATION**  
 ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CONJUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFERENCE SHALL BE MADE TO THE OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

**SUBSTITUTION OF MATERIALS**  
 MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY. THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED.

**SHOP DRAWINGS**  
 SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.  
**DRAWINGS AND SPECIFICATIONS**  
 A) THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.  
 B) SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DESCRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

**RESPONSIBILITY**  
 A) THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PROVIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.  
 B) CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR BOTH REMODELED AND NEW STORES.

**GENERAL PROVISIONS**  
 A) SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING PLUMBING SYSTEM FOR THE BUILDING, OBTAIN WATER, SEWER, GAS TAPS AND ANY OTHER REQUIRED UTILITIES AND EXTEND SERVICE FROM SAME TO BUILDING AS SHOWN ON DRAWINGS. VISIT THE SITE FOR UNDERSTANDING OF THE WORK TO BE DONE BEFORE SUBMITTING BID. COORDINATE THIS WORK WITH THE WORK OF THE OTHER TRADES ON THE PROJECT. ALL PLUMBING IS TO BE ROUGHED IN WHILE THE BUILDING IS BEING CONSTRUCTED AT SUCH TIMES AS NOT TO DELAY THE GENERAL CONTRACTOR ON THE BUILDING.

B. GENERAL REQUIREMENTS: COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS, CODES, RULES, AND ORDINANCES GOVERNING WORK OF THIS CHARACTER. PAY FOR AND OBTAIN NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.

1. DRAWINGS: THE LOCATION OF THE PIPING RUNS ARE APPROXIMATE AND THE CONTRACTOR MUST MAKE ANY NECESSARY CHANGES IN THE PIPING RUNS ETC. AT NO ADDITIONAL COST TO THE OWNER. OUTLET LOCATIONS ARE CRITICAL AND MUST BE LOCATED EXACTLY ACCORDING TO THE PLUMBING PLAN. COORDINATE THIS WORK WITH THE INSTALLERS OF EQUIPMENT FURNISHED AND INSTALLED BY OTHERS. REFER TO THE OTHER DRAWINGS FOR DETAILS OF THE BUILDING CONSTRUCTION AND THE OTHER MECHANICAL, ELECTRICAL, AND EQUIPMENT FEATURES.

2. COORDINATION AND WORKMANSHIP: SCHEDULE THIS WORK SO THAT IT WILL BE PROPERLY COORDINATED WITH ALL OTHER TRADES. WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE FOR THE CLASS OF WORK INVOLVED. WORKMANSHIP SHALL ALLOW THE APPLIANCE TO OPERATE AS INTENDED AND BE INSTALLED TO BEST PROTECT THE PUBLIC AND OPERATORS FROM INJURY OR DAMAGE, AND TO PRESENT A NEAT, PLEASING, AND ORDERLY APPEARANCE.

**GUARANTEE**  
 MATERIALS GUARANTEE AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. DEFECTIVE WORK AND ALL DAMAGES CAUSED THEREBY WHICH MAY OCCUR DURING THE TERM OF THE AFOREMENTIONED GUARANTEE WILL BE REPAIRED AND/OR REPLACED AT NO EXPENSE TO THE OWNER.

**MATERIAL AND PERFORMANCE**  
 A) MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE BRAND NAMES. SUBSTITUTIONS OF MATERIALS OF EQUAL QUALITY BY OTHER FIRST-LINE MANUFACTURES MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING. A SUBSTITUTIONS LIST SHALL BE SUBMITTED IN TRIPLICATE WITHIN FIVE (5) DAYS AFTER CONTRACT IS LET.

B) BACKFILLING: PERFORM ALL NECESSARY EXCAVATING AND BACKFILLING REQUIRED FOR THIS INSTALLATION. PREPARE BED OF SAND OR GRAVEL OR EQUIVALENT IN ROCK SCREENINGS SO AS TO ELIMINATE SHIMMING AND VOID SPACES UNDER ANY OF THE UTILITY SERVICE PIPES. BENDING OF ANY HARD PIPE WILL NOT BE PERMITTED. WHERE A CHANGE IN DIRECTION IS NECESSARY ON PRESSURE PIPES, "COMBINATION" COUPLINGS OR EQUAL SHALL BE USED, AND BENDS MAY NOT EXCEED 90 DEGREES. ALL EXCAVATION BELOW THE BOTTOM OF FOOTINGS SHALL BE BACKFILLED WITH 2000 PSI CONCRETE. OTHER BACKFILL SHALL CONSIST OF 2-3" OF SAND OR ROCK SCREENINGS AND EARTH TO A FINAL LEVEL EQUAL TO ITS ORIGINAL CONDITION. IN THE EVENT THE BACKFILL SHOULD SETTLE BEFORE THE FINAL TOP SURFACE IS APPLIED, APPLY ADDITIONAL BACKFILL TO SUSTAIN THE ORIGINAL LEVEL. CARE SHOULD BE TAKEN TO MINIMIZE THE DUST LEVEL WHEN EXCAVATING AND BACKFILLING SO AS TO COMPLY WITH FEDERAL AND STATE E.P.A REGULATIONS RELATING TO THIS TYPE OF WORK (FUGITIVE DUST).

C) PIPING INSTALLATION: CLEAN-OUTS MUST BE INSTALLED ON MINIMUM DROP LINES EVEN THOUGH NOT SHOWN ON THE BLUEPRINTS. USE REDUCING FITTINGS IN MAKING REDUCTIONS IN SIZE OF PIPE. REAM ALL PIPE AFTER CUTTING. THEN TURN PIPES ON END AND KNOCK OUT ALL LOOSE DIRT AND SCALE BEFORE INSTALLING. MAKE CHANGES IN HORIZONTAL DIRECTION OF SOIL AND WASTE PIPES WITH LONG RADIUS FITTINGS OR WITH V BRANCHES AND 1/8 OR 1/16 BENDS. CONNECT SOIL STACKS AT BASE TO HORIZONTAL RUNS WITH "Y" CONNECTIONS. WATER SUPPLY PIPES TO FIXTURES AND WASTE PIPES FROM FIXTURES SHALL BE CENTERED IN THE PROPER PLACE RELATIVE TO THE CENTER LINE OF THE FIXTURE. NO OFFSETS WILL BE ALLOWED. ALL PIPES SHALL BE RUN MECHANICALLY STRAIGHT AND SQUARE WITH BUILDING LINES. EXCEPT FOR REQUIRED PITCH ON HORIZONTAL LINES. AND ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS. WATER PIPING TO BE ROUTED IN WALLS, UNDER THE FLOOR SLAB, AND ABOVE SUSPENDED CEILINGS AS NOTED. WHERE WATER LINES ARE ROUTED UNDER THE FLOOR SLAB, NO MECHANICAL JOINTS SHALL BE MADE UNDER THE SLAB EXCEPT AS LISTED BELOW. WATER PIPING SHALL BE INSTALLED NOT TO EXERT VERTICAL NOR HORIZONTAL STRESSES ON THE SEATING OF UNIONS. UNIONS SHALL BE COPPER TYPE NIBCO #733 OR EQUAL.

NO WAX, PUTTY, OR VARNISH WILL BE PERMITTED. CRACKED FITTINGS SHALL BE REMOVED AND REPLACED WITH NEW FITTINGS. MAKE THREADED JOINTS IN BRASS PIPE AND FITTINGS WITH PIPE THREADING TO THE SHOULDER OF THE FITTINGS. NO SUP JOINTS OR COUPLING JOINTS IN BRASS PIPE WILL BE PERMITTED, EXCEPT ON THE FIXTURE SIDE OF THE TRAP.

**WATER PIPES**  
 JOINTS SHALL BE CLEANED AND DEBURRED AS RECOMMENDED BY THE MANUFACTURER AND FEDERAL, STATE AND LOCAL CODES AND SOLDERED AS LISTED BELOW. FLUX SHALL BE NON-CORROSIVE.  
 A. ABOVE GRADE: WHERE FITTINGS ARE SOLDERED BOTH FITTINGS AND TUBING SHALL BE CLEANED AS DESCRIBED ABOVE. UNDER NO CIRCUMSTANCES SHALL DISSIMILAR METALS COME INTO DIRECT CONTACT WITH COOPER TUBING, E.G., GALVANIZED STRAPPING, HANGERS, OR CLAMPS TO SECURE THE TUBING.  
 B. BELOW GRADE/ FLOOR SLAB ON EARTH OR STONE FILL: HIGH TEMPERATURE, SOLDER, 1200°F OR GREATER MELTING POINT.

NOTE: WATER PIPE TO BE PROPERLY SECURED AND ALIGNED SO AS NOT TO EXERT VERTICAL OR HORIZONTAL STRESSES ON THE SEATING OF THE MATING (MALE AND FEMALE) SURFACES OF THE UNIONS.  
 A. MATERIALS - UNDERGROUND: TYPE "L" COPPER TUBE, SOFT TEMPER  
 B. MATERIALS - ABOVEGROUND: TYPE "L" COPPER TUBE, HARD DRAWN  
 C. INSULATION: INSULATION FOR HOT AND COLD WATER & HOT WATER RETURN PIPING SHALL BE 1/2" ( 1" ON 1ST 8FT FROM TANK) THICK ARMAFLEX UL LABELED OR FIBERGLASS 25 WITH AS/JSSL FOIL/VINYL JACKET OR EQUAL. INSULATE ALL PIPING AND FITTINGS.

**WASTE PIPING**  
 PVC SCH. 40, CAST IRON - HUB TYPED WITH NEOPRENE JOINTS - WITH STAINLESS STEEL CONNECTORS ON ALL PIPES WHEN PVC IS NOT ALLOWED PER LOCAL CODE. INSTALL HORIZONTAL DRAIN AND SLOPE OF DRAINAGE PIPING SHALL BE 1/4" PER FOOT OF RUN FOR PIPE 2-1/2" & SMALLER, 1/8" PER FOOT OF RUN FOR PIPE 3" TO 6".  
**PIPE SLEEVES/ESCUTCHEONS**  
 PROVIDE CHROME-PLATED ESCUTCHEONS ON ALL PIPES PASSING THROUGH WALLS, FLOORS, OR CEILINGS OF FINISHED ROOMS. ESCUTCHEONS TO BE BEATON & CADWELL, #10, 40, 6A OR EQUIVALENT WITH SET-SCREWS. PROVIDE ESCUTCHEONS ON ALL WASTE LINES FROM PLUMBING FIXTURES, WHETHER THROUGH WALLS, FLOORS, AND WHETHER CONCEALED BEHIND COUNTERS OR EXPOSED. PIPE SLEEVES SHALL BE PROVIDED WHEN PIPES PENETRATE FOUNDATION AND SHALL BE 1" LARGER THAN PIPE, SEAL SLEEVE W/CAULKING.

**PLUMBING FIXTURES**  
 FURNISH AND INSTALL PLUMBING FIXTURES AS SHOWN ON DRAWINGS WITH ALL ACCESSORIES AND TRIM AS LISTED. ALL FIXTURES SHALL BE PROTECTED THROUGH THE COURSE OF THE CONSTRUCTION, ANY FIXTURE DAMAGED SHALL BE REPLACED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. CONNECTION TO OTHER FIXTURES CONNECT BUILDING SERVICE PIPING, INCLUDING BUT NOT LIMITED TO WATER, DRAIN, AND GAS PIPES TO EQUIPMENT AS INDICATED IN EQUIPMENT SPECIFICATIONS. PROVIDE BACKFLOW PROTECTION ON COFFEE MACHINES AND BEVERAGE EQUIPMENT SUPPLY CONNECTIONS.

**TESTS**  
 A. DRAINAGE AND VENT PIPING- DRAINAGE AND VENT PIPING SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE INSTALLED BY CAPPING THE OPENINGS AND FILLING THE ENTIRE SYSTEM WITH WATER AND ALLOWING IT TO STAND THUS FILLED NOT LESS THAN ONE (1) HOUR. INSPECT WATER LEVEL TO DETERMINE IF PIPING IS TIGHT.  
 B. WATER PIPING - THE WATER SUPPLY PIPING LINES SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE CONNECTED BY FILLING THE ENTIRE SYSTEM WITH POTABLE WATER AND APPLYING HYDROSTATIC PRESSURE OF 100 PSI AND ALLOWING TO STAND FOR NOT LESS THAN FOUR (4) HOURS AT THIS PRESSURE TO PROVE PLUMBING INTEGRITY.

**DISINFECTING OF POTABLE WATER SYSTEM**  
 UPON COMPLETION OF INSTALLATION DISINFECT THE WATER SYSTEM BY FLUSHING IT WITH SOLUTION CONTAINING 50 PARTS PER MILLION OF CHLORINE AND ALLOW IT TO STAND FOR 24 HOURS OR THE WATER SYSTEM BY FLUSHING IT WITH SOLUTION CONTAINING 200 PARTS PER MILLION OF CHLORINE AND ALLOW IT TO STAND FOR 3 HOURS OR BEFORE FLUSHING THOROUGHLY AND RETURNING TO SERVICE. FURNISH CLEAN WATER SAMPLES TO THE LOCAL AUTHORITY FOR TESTING AFTER THE LINES HAVE BEEN DISINFECTED. THIS PROCEDURE TO BE IN ACCORDANCE WITH 2018 INTERNATIONAL PLUMBING CODE.

**CLEAN-UP**  
 CLEAN ALL PLUMBING FIXTURES AND EQUIPMENT THOROUGHLY BEFORE FINAL INSPECTION LEAVING ALL READY FOR USE. .  
**OWNER'S MANUAL**  
 PROVIDE THE OWNER AT THE COMPLETION OF THIS CONTRACT WITH AN "OWNER'S MANUAL" SO LABELED. THE MANUAL SHALL CONSIST OF A THREE-RING LOOSE-LEAF BINDER CONTAINING ALL PRINTED MATTER SUCH AS: GUARANTEE CARDS, CLEANING INSTRUCTIONS, NOTICES TO OWNER, OPERATING MANUALS, AND MAINTENANCE INSTRUCTIONS THAT MAY BE CONTAINED IN THE SHIPPING CARTONS OR EQUIPMENT HOUSINGS.

**PLUMBING LEGENDS**

	SANITARY SEWER PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	PIPE RISE
	PIPE DROP
S.O.V.	SHUT - OFF VALVE
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
WCO	WALL CLEAN OUT
TD	TRENCH DRAIN
HD	HUB DRAIN
EX	EXISTING
	CAPPED END OF PIPE
FCO	FLOOR CLEAN OUT
	P-TRAP
	GATE VALVE
	WATER HAMMER ARRESTER
	FLOOR DRAIN
	BALANCING VALVE
	POINT OF CONNECTION
	THERMOSTATIC MIXING VALVE

**SCOPE OF WORK**

PROVIDE ALL PLUMBING FOR THE CHANGING ROOM/ RESTROOMS/ SHOWERS AREAS WHICH IS BEING REMODELED WITHIN AN EXISTING SWIM SCHOOL FACILITY, INCLUDING ALL WATER & SANITARY LINES AND CONNECT TO EXISTING UTILITIES, REUSE EXISTING STORAGE TYPE WATER HEATER.

COORDINATE WITH GC AND MECHANICAL CONTRACTOR FOR ANY REQUIRED CONDENSATE LINES.

**FIXTURE BRANCH SCHEDULES**

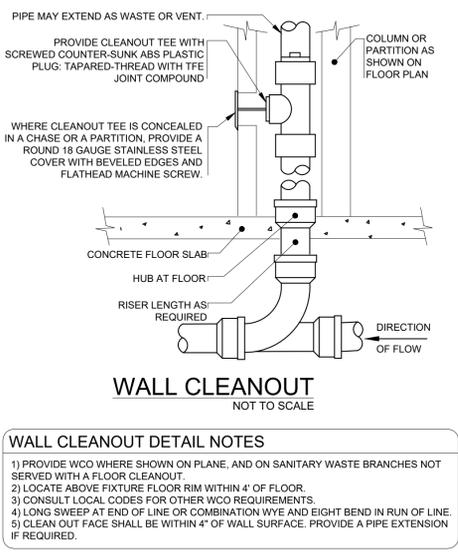
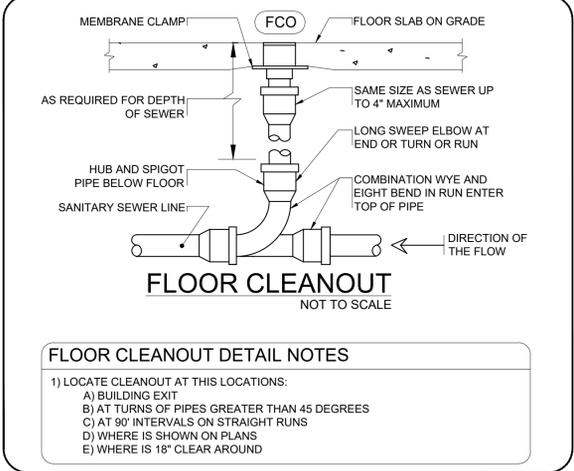
FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET (VALVE)	1"	--	4"	2"
LAVATORY	1/2"	1/2"	2"	1-1/2"
NEW FLOOR DRAIN	--	--	3"	2"
DRINKING FOUNTAIN	E	E	E	E

PLUMBING EQUIPMENT SCHEDULE					WATER		WASTE	
Item No.	Qty.	Description	MANUFACTURER	MODEL	Hot	Cold	Direct	Indirect
1	4	LAVATORY	AMERICAN STANDARD	LUCERNE 0355.027				2"
1A	4	LAVATORY FAUCET**	DELTA	2529LF-HDF	1/2"	1/2"		
1B	4	LAVATORY PIPE COVER	LAV-GUARD	102				
	4	THERMAL MIXING VALVES	WATTS	LFMMV	1/2"	1/2"		
2	4	WATER CLOSET	AMERICAN STANDARD	MADERA 2857.016				4"
	4	ELONGATED SEAT	AMERICAN STANDARD	EXTRA HD COMMERCIAL TOILET SEAT 5905.100				
	4	FLUSH VALVE	SLOAN	REGAL 111XL			1"	
14	2	SWIM SUIT DRYER	SUITEMATE	115V/60HZ UNIT				HD
17	1	DRINKING FOUNTAIN	EXISTING TO REMAIN	EXISTING TO REMAIN			E	E
18	6	SHOWER HEAD & HANDLE**	MOEN	L2352	1/2"	1/2"		TD
	6	MIXING VALVE	MOEN	8370HD	1/2"	1/2"		
FD	2	NEW FLOOR DRAINS*	ZURN	ZS415 W/ TYPE BS STRAINER				3"
TD		TRENCH DRAIN	STEGMEIER	FLOWMASTER COMMERCIAL DRAIN W/PC GRILL				3"

\*PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS. \*\*MIXING VALVE REQUIRED.

**GENERAL NOTES**

- SOIL, WASTE AND VENT PIPING SHALL BE PVC BUT MAY NOT RUN THRU RATED ASSEMBLIES OR IN PLENUMS.
- ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE GROUP AS PER CODE AND WITH GOOD ENGINEERING PRACTICE.
- DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS, EXCEPT AT WATER HEATER AS PER CODE.
- ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD.
- STUDDOR MINIMAXI AIR ADMITTANCE VALVES MAY NOT BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF.
- PROVIDE CHROME PLATED COMBINATION COVER PLATE AND CLEAN OUT PLUG OR ACCESS PANEL FOR ALL CLEANOUTS.
- NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
- NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.
- CONDENSATE DRAIN LINES TO BE RUN UNDER SLAB IN PVC SCH40 PIPE AND STUBBED OUT OF WALL TO UNIT. TIE-IN OF A/C TO BE BY OTHERS. PVC PIPING WITH 1/2" THICK ARMAFLEX INSULATION MAY BE USED IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATION OF PIPING. PVC WILL BE MIN. SCHEDULE 40 FOR SIZE AND LOCATION OF PIPING. PVC WILL BE MIN. SCHEDULE 40.
- PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
- PLUMBING FIXTURES SHALL COMPLY WITH 2018 INTERNATIONAL PLUMBING CODE.
- WATER HAMMER ARRESTORS AS PER 2018 INTERNATIONAL PLUMBING CODE.
- PLUMBING CONTRACTOR TO PROVIDE ANTI-SCALDING VALVE FOR SHOWERS.
- PLUMBING CONTRACTOR SHALL REVIEW WALL FINISHES @ LOCATION REQUIRING BARRIER-FREE COMPLIANCE (EXAMPLE: CENTER LINE TO TOILET).



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PROJECT

MILLER SWIM SCHOOL

REVISIONS DATES:


PROFESSIONAL SEAL

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DATE: 11.16.23  
 PROJECT #: 257.1245A.20  
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PLUMBING NOTES, DETAILS & SCHEDULE

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SANITARY PLAN & RISER

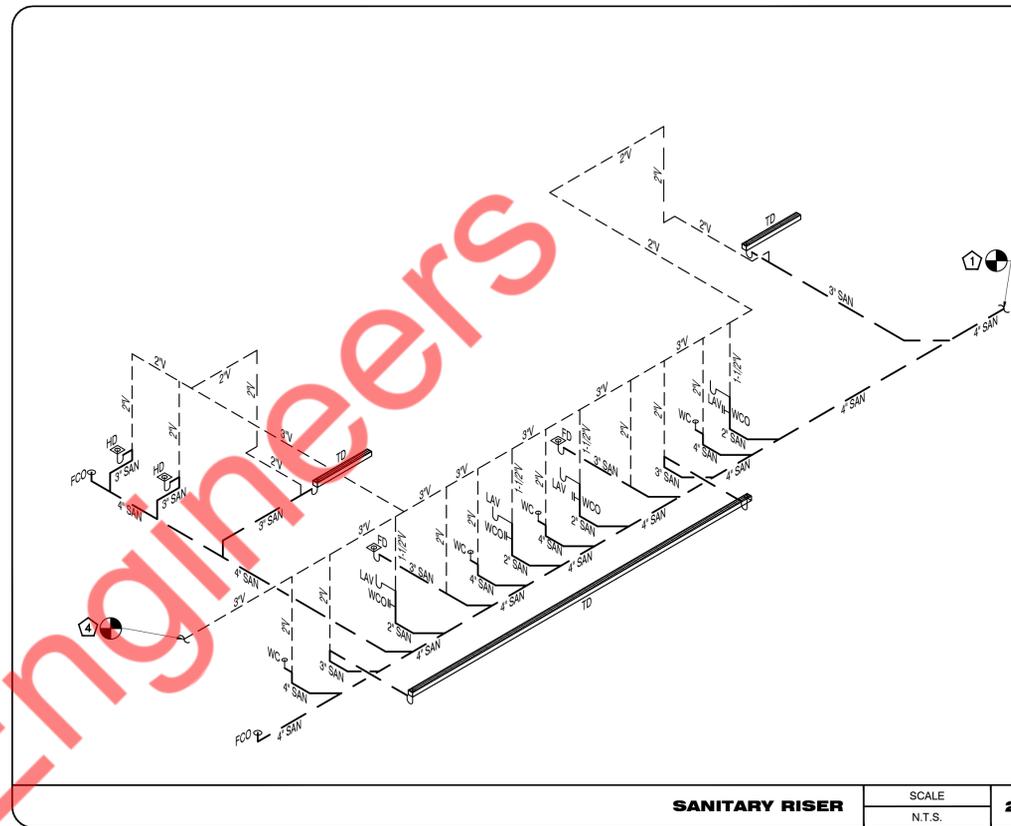
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**SANITARY PLAN & RISER KEY NOTES**

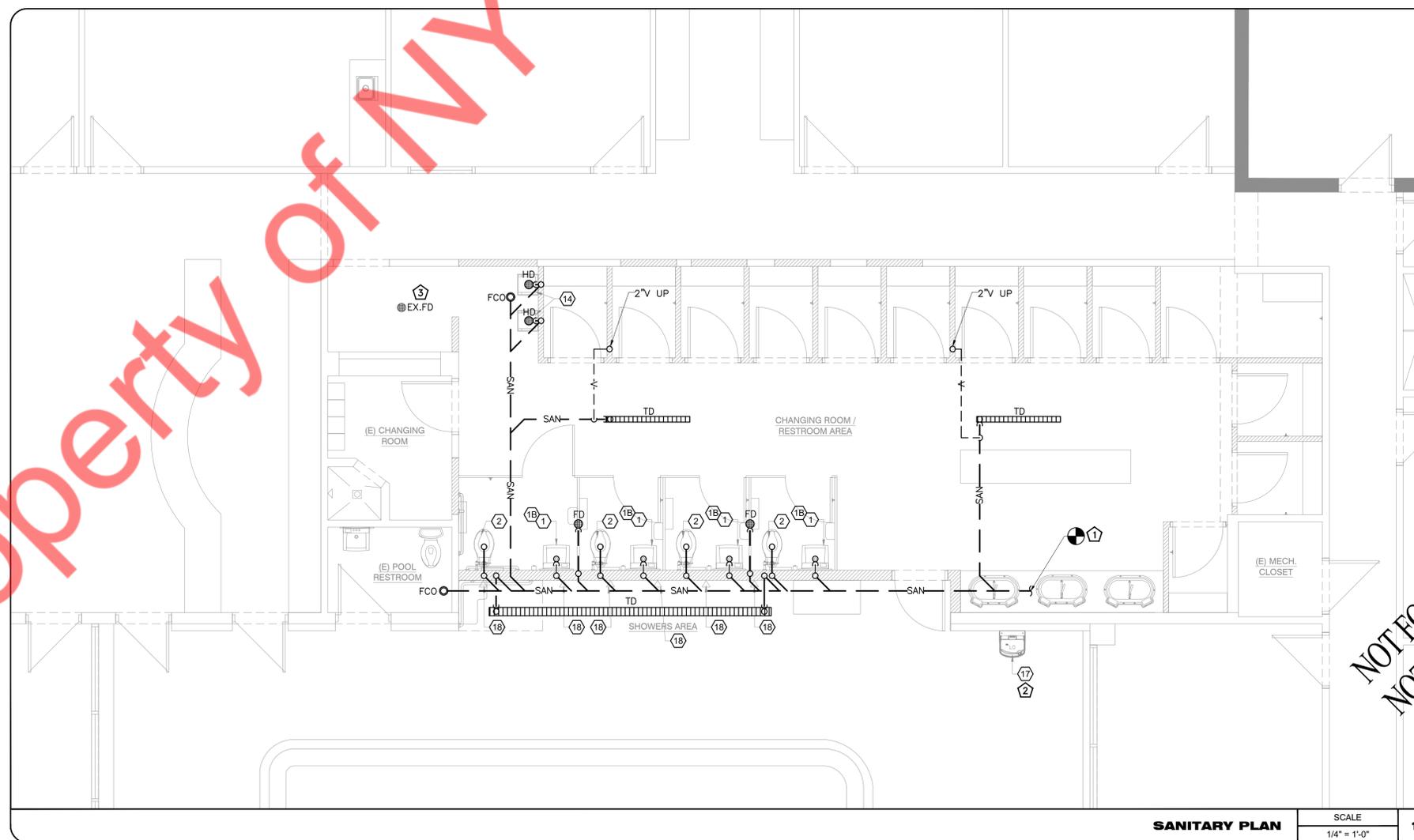
- 1 EXTEND & CONNECT NEW 4" SANITARY WASTE PIPING TO EXISTING SANITARY MAIN LINE OF ADEQUATE SIZE IN SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION, ROUTING & INVERT OF EXISTING SANITARY MAIN LINE AND MAKE NECESSARY CHANGES / UPGRADE EXISTING SANITARY LINE IF REQUIRED.
- 2 EXISTING DRINKING FOUNTAIN TO REMAIN WITH EXISTING SANITARY & VENT CONNECTIONS, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- 3 EXISTING FLOOR DRAIN TO REMAIN WITH EXISTING SANITARY & VENT CONNECTIONS, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- 4 EXTEND & CONNECT NEW 3" VENT LINE TO EXISTING VENT MAIN LINE OF ADEQUATE SIZE IN SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE & LOCATION OF EXISTING VENT MAIN LINE AND MAKE NECESSARY CHANGES / UPGRADE EXISTING VENT LINE IF REQUIRED.

**GENERAL NOTES**

1. SLOPE OF DRAINAGE PIPING SHALL BE 1/8" PER FOOT OF RUN FOR PIPE 3" TO 6" AND 1/4" PER FOOT OF RUN FOR PIPE 2-1/2" AND SMALLER. VENT PIPING SHALL BE PITCHED TO DRAIN.
2. CONTRACTOR TO FIELD VERIFY FEASIBILITY OF SLAB PENETRATION AS PER STRUCTURAL REQUIREMENT.
3. ALL MATERIAL INDICATED AND IMPLIED ON THESE DRAWINGS SHALL BE NEW UNLESS OTHERWISE NOTED.
4. ALL CLEANOUTS TO BE ACCESSIBLE.
5. PROVIDE ACCESS PANELS FOR CLEANOUTS AS REQUIRED.
6. CONTRACTOR TO PROPERLY INSPECT THE EXISTING SITE CONDITIONS BEFORE COMMISSIONING OF BID. CONSIDER ALL THE ADDITIONAL COST IN THE ESTIMATION/BID DUE TO THE DISCREPANCY IN THE DRAWINGS AND EXISTING CONDITIONS IF ANY.
7. CONTRACTOR TO VERIFY THE EXISTING SANITARY & VENT LOCATION, INVERT, SIZE & ROUTING. MAKE NECESSARY CHANGES TO NEW PIPING AS PER THE EXISTING SITE CONDITION AND LET THE ENGINEER KNOW ABOUT THE CHANGES MADE ON SITE.
8. DEMOLISH ALL FIXTURES FROM EXISTING DEMOLISHING RESTROOM AND PROPERLY CAP ALL THE EXISTING PLUMBING LINES FROM THE EVERY FIXTURE.



**SANITARY RISER** SCALE N.T.S. 2



**SANITARY PLAN** SCALE 1/4" = 1'-0" 1

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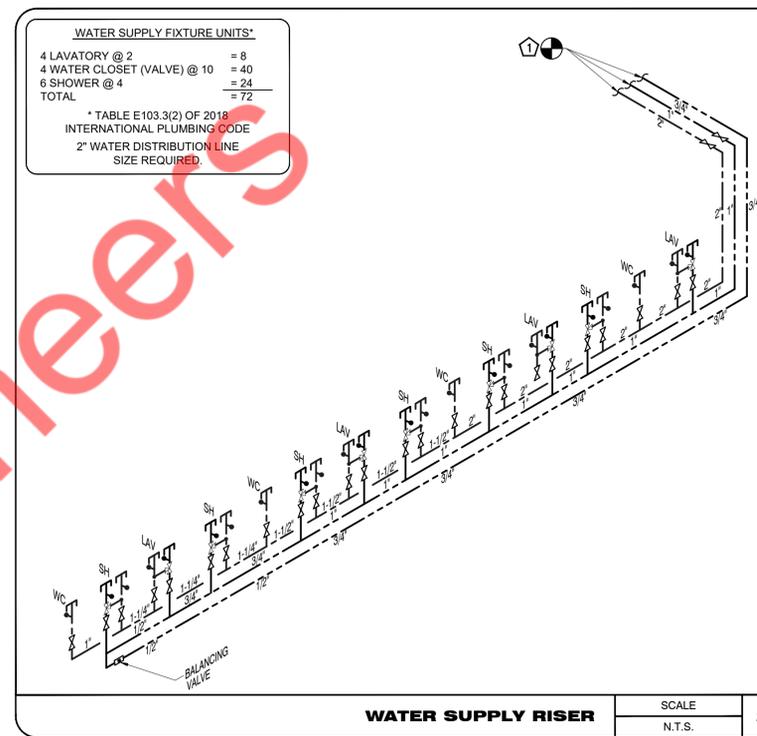
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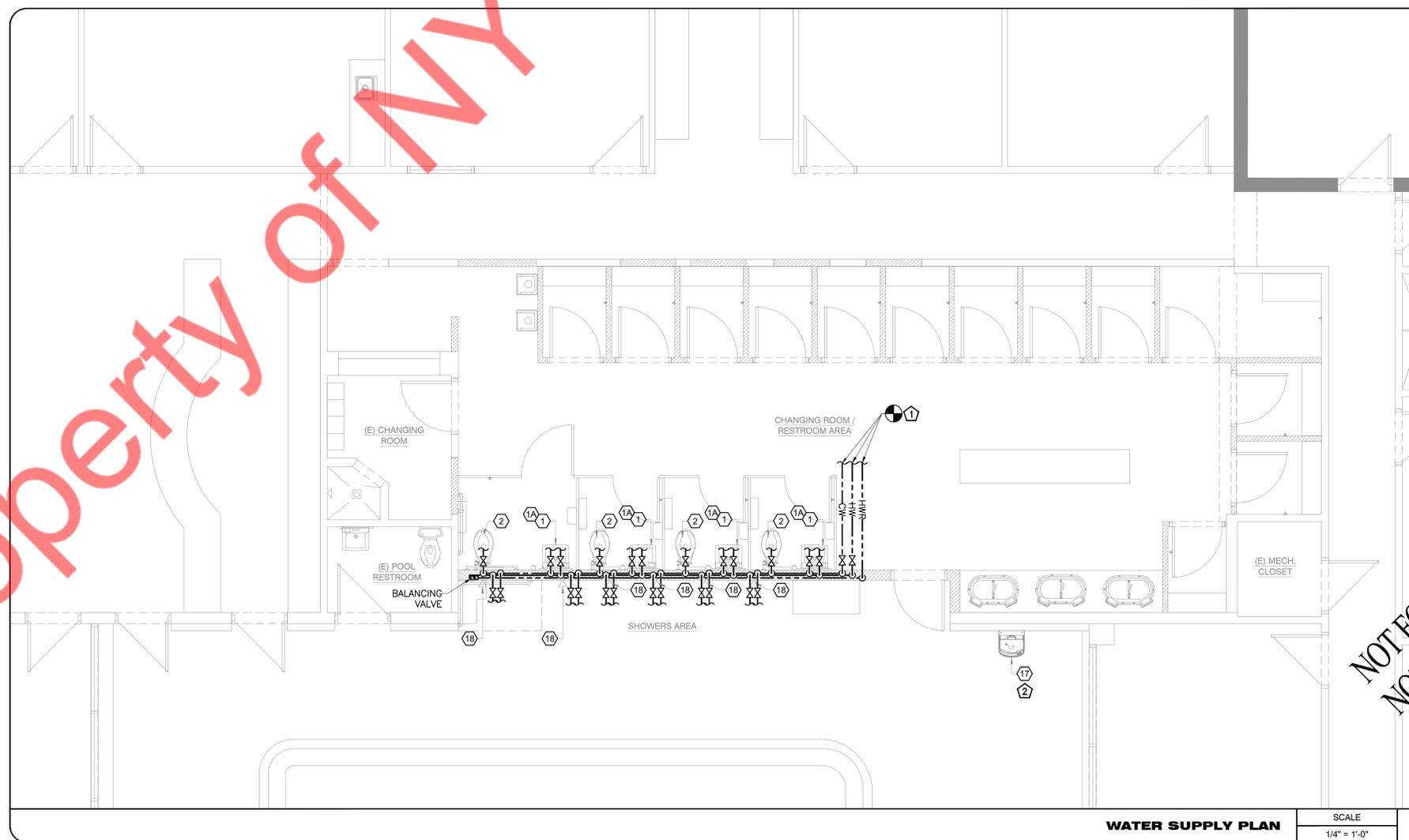
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WATER SUPPLY  
PLAN & RISER



- WATER SUPPLY PLAN & RISER KEY NOTES**
1. EXTEND & CONNECT NEW 2" CW / 1" HW & 3/4" HW. PIPING TO EXISTING CW/HWHWR WATER MAIN LINES OF ADEQUATE SIZE IN SPACE. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION & ROUTING OF EXISTING WATER MAIN LINES AND MAKE NECESSARY CHANGES / UPGRADE EXISTING WATER LINES IF REQUIRED.
  2. EXISTING DRINKING FOUNTAIN TO REMAIN WITH EXISTING CW CONNECTIONS, ASSOCIATED ACCESSORIES AND FITTINGS. CONTRACTOR TO FIELD VERIFY THE CONDITION OF EXISTING PIPING AND REPLACE IF REQUIRED.
- GENERAL NOTES**
1. CW/HWHWR PIPING TO BE PROVIDED WITH INSULATION AS PER 2018 INTERNATIONAL ENERGY CONSERVATION CODE.
  2. PROVIDE BRANCH PRV IF PRESSURE EXCEEDS 80 PSI.
  3. PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTOR & SHUT-OFF VALVES AS REQUIRED.
  4. EXISTING WATER HEATER AND WATER MAIN WITH EXISTING ACCESSORIES TO REMAIN SAME.
  5. ALL MATERIAL INDICATED AND IMPLIED ON THESE DRAWINGS SHALL BE NEW UNLESS OTHERWISE NOTED.
  6. CONTRACTOR TO PROPERLY INSPECT THE EXISTING SITE CONDITIONS BEFORE COMMISSIONING OF BID. CONSIDER ALL THE ADDITIONAL COST IN THE ESTIMATION/BID DUE TO THE DISCREPANCY IN THE DRAWINGS AND EXISTING CONDITIONS IF ANY.
  7. CONTRACTOR TO VERIFY THE EXISTING CW/HWHWR PIPING LOCATION, SIZE & ROUTING. MAKE NECESSARY CHANGES TO NEW PIPING AS PER THE EXISTING SITE CONDITION AND LET THE ENGINEER KNOW ABOUT THE CHANGES MADE ON SITE.
  8. DEMOLISH ALL EXISTING RESTROOM FIXTURES WHICH ARE NOT SHOWN IN THIS DRAWING AND PROPERLY CAP ALL THE EXISTING PLUMBING LINES FROM THAT ASSOCIATED FIXTURE.



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