

THE DOCK AT BRADFORD BEACH I LINCOLN MEML DR, MILWAUKEE, WI 53211

2400 N

PERMIT

ARCHITECT: Scalaplus 1147 W Ohio St, Suite 102 Chicago, IL

GENERAL NOTES:

1. THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY THE ARCHITECT FOR THIS PROJECT ARE INSTRUMENTS OF THE ARCHITECTS SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT AND UNLESS OTHERWISE PROVIDED THE ARCHITECT SHALL BE DEEMED THE AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT. REPRODUCTION IS PROHIBITED. COPYRIGHT 2018 SCALAPLUS INC.

Revision Schedule

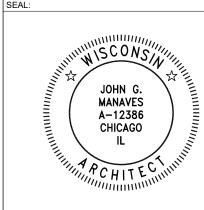
04/03/2020

Description
ISSUE FOR PERMIT

2. CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL FIGURED DIMENSIONS AND CONDITIONS AT THE JOBSITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATION OF ANY WORK, NO REFERENCE OR DESIGNATION WITHIN THESE DOCUMENTS SHALL BE CONSIDERED TO ESTABLISH A CONSTRUCTIONTOLERANCE

ESTABLISH A CONSTRUCTIONTOLERAN

3. DO NOT SCALE THESE DRAWINGS.



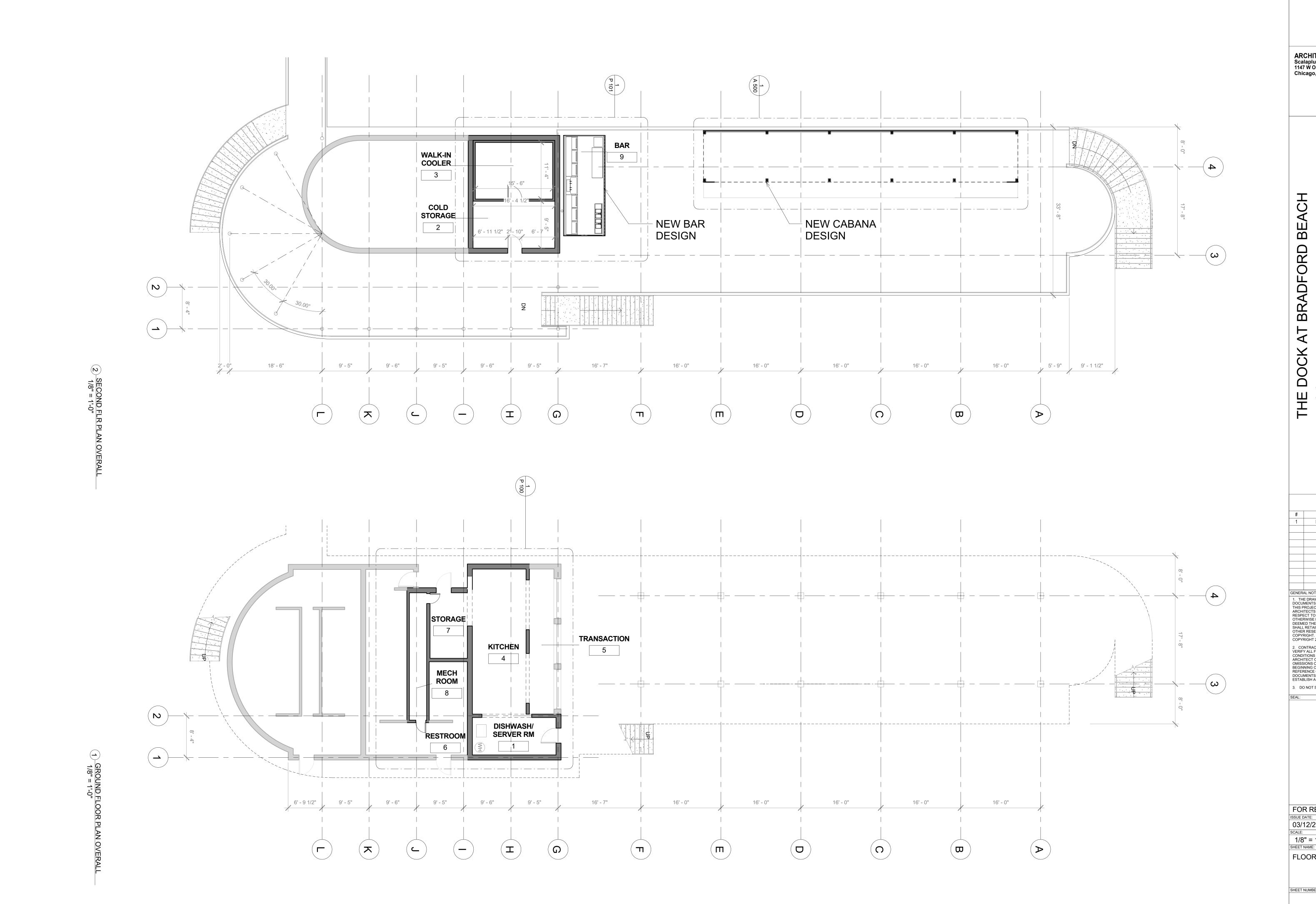
FOR REVIEW
ISSUE DATE:
03/13/20
SCALE:

As indicated

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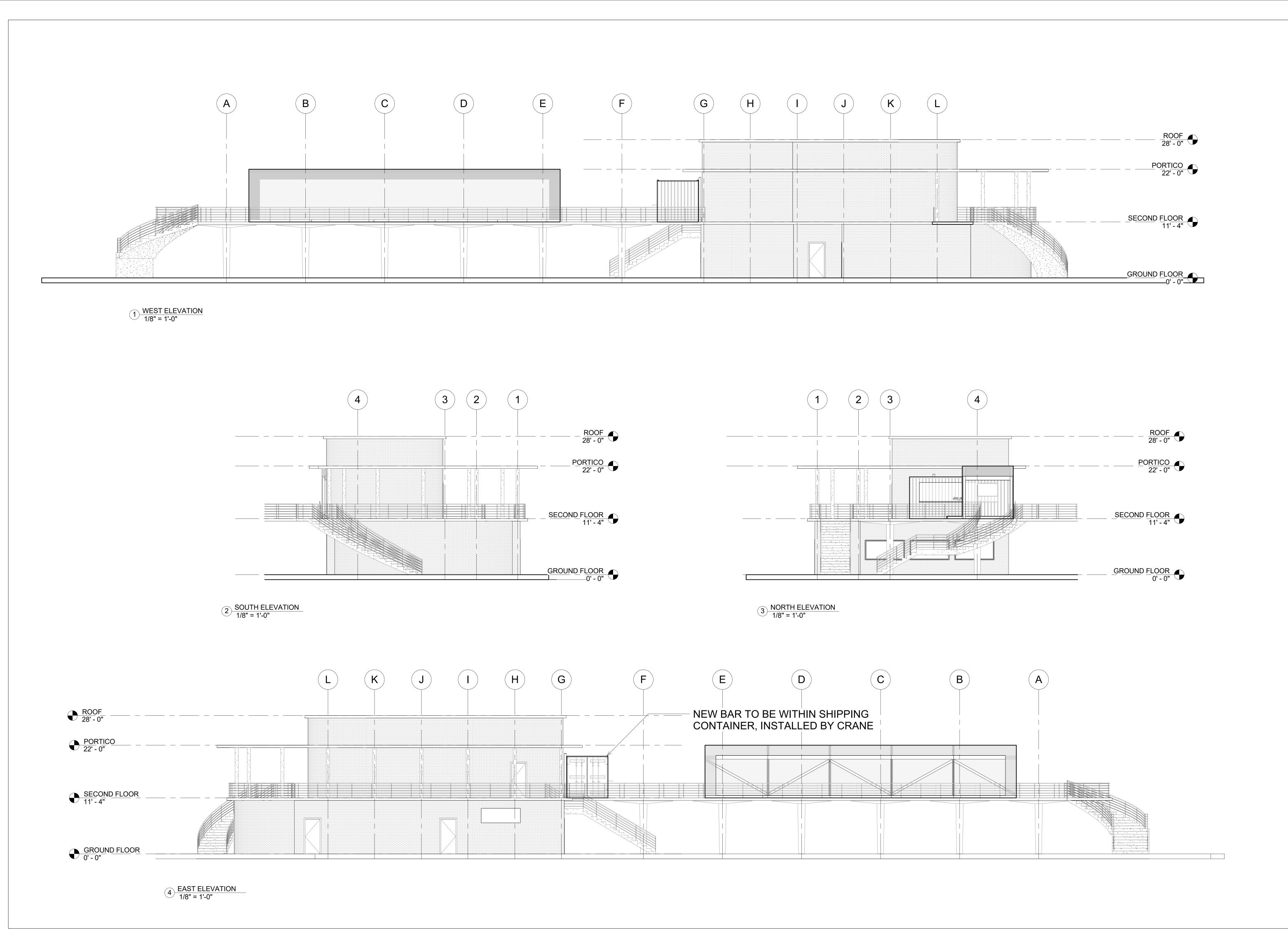
ISSUE

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FOR REVIEW 03/12/20 1/8" = 1'-0" SHEET NAME: FLOOR PLANS

A 100



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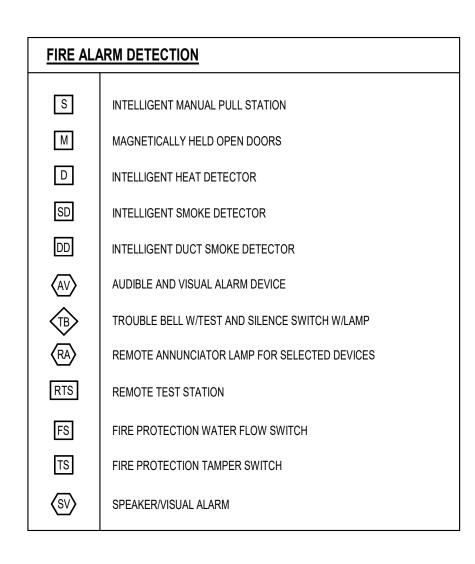
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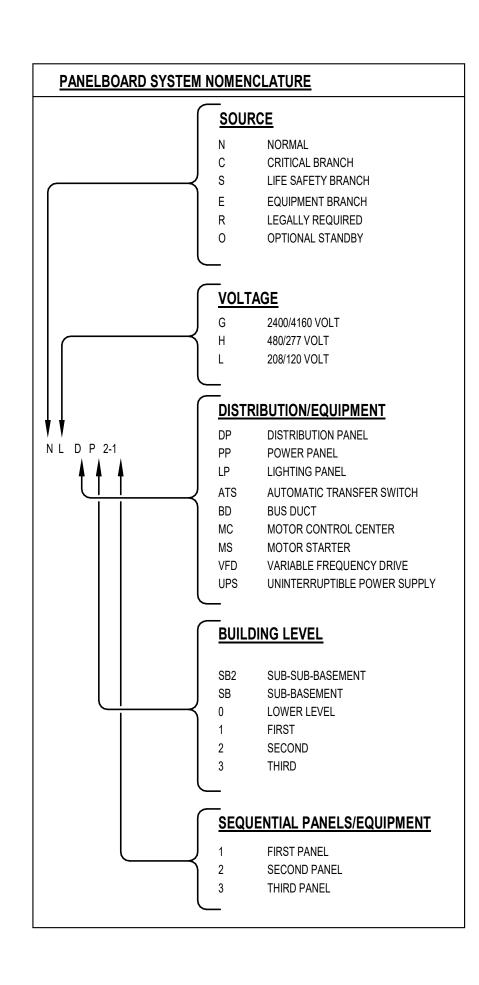
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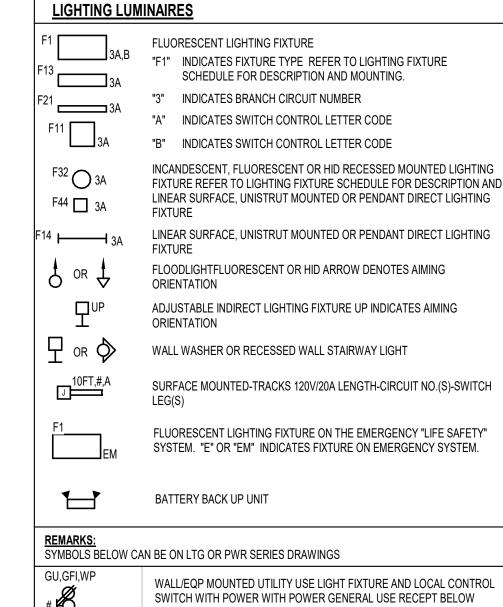
FOR REVIEW ISSUE DATE: 03/13/20 1/8" = 1'-0"

EXTERIOR ELEVATIONS

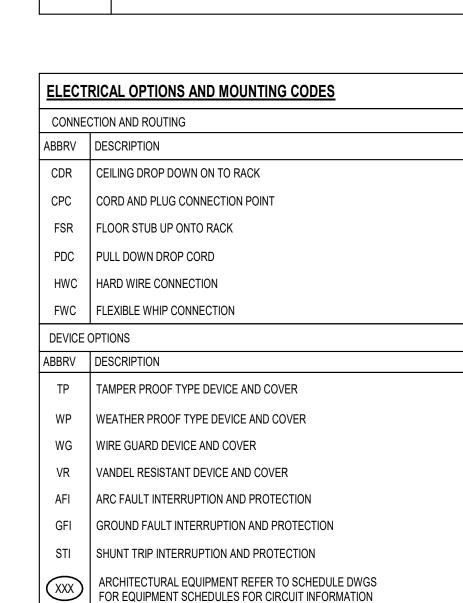
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RISER ELE	CTRICAL DIAGRAM/SYMBOLS						
<u>}</u> {	POLY PHASE TRANSFORMER						
36	POTENTIAL TRANSFORMER						
	CURRENT TRANSFORMER						
	GROUND						
	CONTACTOR						
- ⊶	CIRCUIT BREAKER						
_~	SINGLE THROW SWITCH						
	FUSE						



	OARDS AND CONTROLLERS
5	FLUSH MOUNTED PANEL - SEE DESCRIPTION FOR TYPE
<u> </u>	SURFACE MOUNTED PANEL - SEE DESCRIPTION FOR TYPE
	FREE STANDING RACK/CABINET/HOUSING
CONDUIT	S RACEWAYS WIREWAYS & J-BOXES
	TWO CHANNEL MULTI-OUTLET RACEWAY FOR SURFACE MOUNT POWER & TOPENINGS
	CABLE TRAY SEE SPECIFICATION FOR TYPE
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$\left\langle \begin{array}{c} \chi \chi \chi \chi \\ \chi \end{array} \right\rangle$	MOTOR-LISTED EQUIPMENT REFER TO SCHEDULE DWGS FOR EQUIPMENT SCHEDULES FOR CIRCUIT INFORMATION
X	MOTOR CONNECTION
\boxtimes	ENCLOSED MAGNETIC MOTOR STARTER
STR	COMBO MAGNETIC MOTOR STARTER W/ OCPD & LOCK-OUT TAG-OUT DISCONNECT SWITCH
VFC	COMBINATION VARABLE FREQUENCY CONTROLLER W/OCPD & LOCK-OUT T/OUT DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH & LOCK-OUT TAG-OUT

JUNCTION BOX - WALL MOUNTED

MOTORS & LISTED EQUIPMENT CONTROLLERS

LIGHT FIXTURE MOTOR, LISTED-EQUIPMENT, SWITCHES-OPERATORS

3 \$ A	"A-Z"	SWITCH LEG CONTROL LETTER CODE(S)
LCC K	"D"	DIMMER 1,000W CONTROL SWITCH
	"2"	DOUBLE-POLE TOGGLE SWITCH
	"3"	TRIPPLE POLE TOGGLE SWITCH
	"3W"	THREE WAY SWITCH
	"4W"	FOUR WAY SWITCH
	"K"	KEY OPERATED SWITCH
	"O"	OCCUPANCY SENSOR SWITCH
	"P"	TOGGLE SWITCH WITH PILOT LIGHT
	"TM"	ROTARY SWITCH WITH TIMER CONTROL
	"T"	THERMAL SWITCH
	"WS"	WALL SWITCH
	"T/S"	TEMP/SENSOR SWITCH
	"W-STAT"	WALL LINE VOLTAGE STAT
	"LV(2)"	LOW VOLTAGE SWITCHING SYSTEM # QUANTITY OF LV SWITCHES

FUSED DISCONNECT SWITCH & LOCK-OUT TAG-OUT

"LM" MASTER SWITCH FOR LOW VOLTAGE SWITCHING SYSTEM "MC" MOMENTARY CONTACT SWITCH

"LCC" SWITCH LEG TO LTG CONTACTOR COIL "LCC"

LTG SWITCHES SHOWN ON LTG PLAN VIEWS, EQP SWITCHES SHOWN ON PWR PLAN VIEWS

SINGLE POLE TWO-POSITION 20A TOGGLE SWITCH U.N.O. ON THE DWGS WITH

SINGLE POLE TWO-POSITION 20A TOGGLE SWITCH U.N.O. ON THE DWGS WITH

CEILING MOUNTED DUAL TECHNOLOGY 360° OCCUPANCY SENSOR, UNLESS NOTED OTHERWISE

WALL SWITCH MOUNTED PASSIVE INFRARED 180° OCCUPANCY SENSOR

(LC) 4-ZONE PRE-SET LIGHTING CONTROL STATION WITH FADERS

(FL) JUNCTION BOXES FOR FLUSH SENSORS. CONTRACTOR TO PROVIDE CIRCUIT SHOWN AND ALL ASSOCIATED CONDUIT AND WIRING FOR A COMPLETE AND OPERATING SYSTEM. TYPICAL FOR EVERY LAVATORY, URINAL AND TOILET FLUSH LOCATION. MULTIPLE LAVATORIES AT TOILETS REQUIRED A SINGLE CONNECTION. PROVIDE TRANSFORMERS ABOVE CEILING W/ ACCESS PANELS AND PROVIDE GFI CKT BREAKER AT CORRESPONDING BREAKER.

GENERAL ELECTRICAL NOTES

1. DEFINITIONS

"FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO DELIVERY OF AN ITEM OF EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION. EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION. "INSTALL" MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER.

PROVIDE" MEANS TO "FURNISH" AND "INSTALL". "FUTURE", "BY OTHERS", "REFER (DISCIPLINE) DIVISION" AND SIMILAR EXPRESSIONS INDICATE WORK THAT MAY BE PERFORMED UNDER THE CONTRACT DOCUMENTS BUT, NOT NECESSARILY UNDER THE DIVISION OR DISCIPLINE ON WHICH THE NOTE APPEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS. EMPLOYEES, ETC. SHOULD CLARIFICATION OF ANY PORTION OF THE WORK BE REQUIRED, CONTACT THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID.

2. CODES

THE WORK SHALL COMPLY WITH LATEST EVANSTON BUILDING CODE. THIS WOULD INCLUDE. BUT IS NOT LIMITED TO, THE CURRENT CITY BUILDING CODE. AMMENDMENTS, NFPA, ANSI, OSHA, AND ALL OTHER LOCAL OR MUNICIPAL BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT; ANYTHING IN THESE CONTRACT THIS SHALL NOT BE CONSTRUED AS WAIVING COMPLIANCE WITH ANY REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF ANY REQUIREMENTS OF THESE CODES.

3. INTERPRETATION OF THE DOCUMENTS

THE CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING THE MEASUREMENTS AND CONDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS AND/OR SPECIFICATIONS, THE DISPUTED ISSUE SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO-STATED IN THE CONTRACTOR'S PROPOSAL, ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL.

4. COORDINATION

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. TO THIS EXTENT, DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES. WHERE THERE ARE POTENTIAL CONFLICTS. THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS. MEASUREMENTS. LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL FIELD CONDITIONS. REFER TO ARCHITECTURAL/MECHANICAL DRAWINGS FOR PLANS, ELEVATIONS AND DETAILS INDICATING THE LOCATIONS OF CEILING ELEMENTS (E.G., LIGHTS, SPRINKLERS, DIFFUSERS, ETC.) AND WALL ELEMENTS. CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.

5. SITE EXAMINATION

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE IMPLEMENTED. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELEIVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE

THE CONTRACTOR SHALL SECURE, OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TAXES, LICENCES, AND FEES TO ALL GOVERNMENT AGENCIES REQUIRED FOR THE EXECUTION AND COMPLETION OF THE ELECTRICAL WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE GOVERNMENTAL AGENCIES AND UTILITY COMPANIES FOR THEIR APPROVAL.

7. SAFETY

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLIENT'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, EQUIPMENT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.

8. CONTRACTOR'S DRAWING REVIEW

ALL CONTRACTORS/BIDDERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. CONDUIT LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION, OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES OR COMMUNICATION CONDUITS. THE CONTRACTOR SHALL CONFIRM THAT CONDUIT LOCATE SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONFLICTS EXIST BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE.

9. STATEMENT OF WORK

THE CONTRACTOR SHALL PROVIDE THE COMPLETE ELECTRICAL INSTALLATION OF WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS. PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, ANY SEQUENCE OF WORK, MOP'S (METHOD OF PROCEDURE) AND/OR COORDINATION SHOP DRAWINGS FOR THE INTENDED WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.

10. WORK PERFORMANCE REQUIREMENTS

ANY PENETRATIONS OR OPENINGS IN FIRE-RATED PARTITIONS (WALLS OR FLOORS) SHALL BE CLOSED AT THE END OF EACH WORK DAY, OR WHENEVER IT IS ANTICIPATED THAT NO FURTHER WORK WILL OCCUR IN THAT OPENING DURING THE DAY. THIS INCLUDES ALL TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING END OF EACH WORK DAY. ALL TEMPORARY WALL AND FLOOR OPENINGS SHALL BE PROTECTED AND MARKED AT ALL TIMES. PAINTING SHALL BE SCHEDULED SUCH THAT DRYING TIME OCCURS DURING NON-WORKING HOURS FOR OPERATIONS PERSONNEL COMFORT. NO WELDING SHALL TAKE PLACE INSIDE OF OPERATING FACILITY WITHOUT THE WRITTEN AUTHORIZATION OF THE OWNER'S PROJECT REPRESENTATIVE. WELDING SHALL NOT TAKE PLACE WITHIN 5 FEET OF ANY TELECOM EQUIPMENT RACK WITHOUT ADEQUATE PROTECTIVE MEASURES, AS DEEMED APPROPRIATE BY THE OWNER'S PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL CHECK, VERIFY AND LABEL PHASE ROTATION ANY TIME LEADS ARE CONNECTED TO A NEW OR EXISTING AC SERVICE, GENSET, RECTIFIER OR ANY MOTOR-EQUIPPED. 3-PHASE EQUIPMENT. ALL THREE-PHASE PANELS SERVING SINGLE-PHASE LOADS SHALL BE BALANCED WITHIN 10 PERCENT, USING AMMETER READINGS. MEASUREMENTS SHALL BE TAKEN AT THE END OF CONSTRUCTION AND AGAIN AFTER 30 DAYS IN SERVICE.

11. CUTTING AND PATCHING

ALL CUTTING, DRILLING AND PATCHING OF MASONRY STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTIONS OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE.

12. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE ALL "AS-BUILT" DRAWINGS SACLED 1/4" MINIMUM AND SUBMIT FOR APPROVAL TO THE ARCHITECT/ENGINEER.

13. FIRESTOPPING

ALL PENETRATIONS IN WALLS, FLOORS, OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH A FIRE-STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. ONLY PRODUCTS MANUFACTURED BY HILTI SHALL BE PREFERRED (NO SUBSTITUTIONS).

14. TEMPORARY POWER AND LIGHTING

THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR THIS WORK DURING CONSTRUCTION. TEMPORARY LIGHTING SHALL AT LEAST BE THE EQUAL OF (1)100-WATT FIXTURE EVERY 100 SQUARE FEET, WITH A MINIMUM ONE FIXTURE PER ROOM. TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL. COORDINATE TEMPORARY POWER REQUIREMENTS WITH THE OTHER TRADES AND PROVIDE ADEQUATE PROVISIONS. THE CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD AND UTILITY COMPANY.

15. SWITCH AND RECEPTACLE IDENTIFICATION

PROVIDE MACHINE-PRINTED, PRESSURE SENSITIVE, ABRASION RESISTANT LABEL TAPE ON FACE OF ALL DEVICE PLATES TO IDENTIFY THE PANELBOARD AND CIRCUIT NUMBER FROM WHICH EACH DEVICE IS SERVED.

17. PANELBOARDS

ALL PANELBOARDS IN WHICH WORK OCCURS PER THESE DOCUMENTS, SHALL BE PROVIDED WITH UPDATED-TYPEWRITTEN DIRECTORIES. GIVEN ONLY FOR CLARITY AND QUANTITY. CIRCUIT NUMBERS SHOWN IN THE PLANS MAY NOT NECESSARILY REPRESENT ACTUAL CIRCUIT NUMBERS IN PANELBOARD. FROM FLUSH-MOUNTED PANELBOARDS, STUB-OUT ONE 3/4" CONDUIT INTO THE CEILING CAVITY FOR EACH SET OF 3 SPARES AND/OR SPACES OR FRACTION THEREOF.

18. WIRING

UNLESS NOTED OTHERWISE, ALL WIRE AND CABLE SHALL BE 600-VOLT COPPER CONDUCTORS WITH TYPE "THHN/THWN" INSULATION. MINIMUM WIRE SIZE SHALL BE #12 AWG FOR LIGHTING AND POWER CIRCUITS AND #14 AWG FOR CONTROL CIRCUITS. PROVIDE GROUNDING FOR CIRCUITS PER MILWAKEE BUILDING CODE, UNLESS SPECIFICALLY NOTED OTHERWISE IN THE PLANS, ALL CABLING SHALL BE (2) #12 AND (1) #12 G IN 3/4" C. (NO SHARED NEUTRALS).

19. CONDUIT/RACEWAY SYSTEMS

THE CONDUIT ROUTINGS INDICATED ARE ONLY DIAGRAMMATIC IN NATURE. FIELD CONDITIONS SHALL DICTATE THE CONTRACTOR'S EXACT CONDUIT ROUTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER THE CBC AND FOR COORDINATION WITH OTHER DISCIPLINES. ALL EXPOSED RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS, SUCH AS TO FOLLOW STRUCTURAL SURFACE CONTOURS AND NOT OBSTRUCT PASSAGEWAYS. MULTIPLE RACEWAYS SHALL BE RUN TOGETHER, IN GROUPING. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT SHALL BE COORDINATED WITH THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED DUE TO LACK OF COORDINATION. ALL CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT) AND MINIMUM SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. CONNECTORS AND COUPLINGS SHALL BE INSULATED-THROAT COMPRESSION TYPE ONLY. RIGID GALVANIZED-STEEL (RGS) CONDUIT SHALL BE USED WHEN CONDUIT IS INSTALLED IN OUTDOOR AREAS OR WHERE OTHERWISE EXPOSED TO PHYSICAL HARM. EMERGENCY SYSTEMS SHALL BE RUN IN SEPARATE RACEWAY/CONDUIT SYSTEM(S). A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS, WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY OR CABLE ARMOR/SHEATH SHALL NOT BE USED AS THE PRIMARY EQUIPMENT GROUNDING CONDUCTOR. RACEWAY SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS AND SHALL BE BONDED AT ALL POINTS TO THE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH THE APPLICABLE PROVISIONS IN ARTICLE 250 OF MILWAKEE BUILDING CODE.

20. EQUIPMENT

ALL MATERIALS AND EQUIPMENT PROVIDED IN THIS WORK SHALL BE NEW AND SHALL HAVE THE APPROPRIATE UL LISTING AND/OR FM APPROVAL. UNLESS NOTED OTHERWISE, DISCONNECT/SAFETY SWITCHES SHALL BE NON-FUSED HEAVY-DUTY 600-VOLT TYPE. INDOOR ENCLOSURES SHALL BE NEMA 1 AND OUTDOOR ENCLOSURES SHALL BE NEMA 3R.

21. MECHANICAL EQUIPMENT

ALL MECHANICAL EQUIPMENT WILL BE INSTALLED BY THE DIVISION 22 & 23 CONTRACTOR. COORDINATE THE EXACT LOCATION AND NATURE OF ANY REQUIRED ELECTRICAL CONNECTION TO BE PROVIDED FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN. VERIFY THE ELECTRICAL SERVICE REQUIRED FOR EACH ITEM OF MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FURNISHING SUCH POWER. REFER TO MECHANICAL DRAWING FOR MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. MAKE CONNECTION AND PROVIDE APPROPRIATE WIRE, CONDUIT AND OVER CURRENT PROTECTION FOR EQUIPMENT. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE CLEARANCES AS REQUIRED BY THE CBC. MOTORS SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 22 & 23 WORK. WITH POWER CONNECTED UNDER DIVISION 16 WORK. FINAL CONNECTION SHALL BE MADE WITH SUITABLE LENGTH OF LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT. ALL MOTOR BRANCH CIRCUITS, ETC., SHALL BE FIELD-VERIFIED FOR PROPER SEQUENCE AND MOTOR ROTATION, PHASE SEQUENCE SHALL BE A-B-C (VIEWED FROM FRONT: LEFT TO RIGHT, TOP TO BOTTOM, FRONT TO REAR). REFER TO MECHANICAL DRAWINGS FOR MOTORS THAT ARE TO BE INTERLOCKED.

22. MISCELLANEOUS SUPPORTING MEMBERS

UNLESS NOTED OTHERWISE.

ALL ANGLES, CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, THREADED RODS, ETC., REQUIRED TO SUPPORT LIGHT FIXTURES, LADDER TRAY OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL THREADED RODS SHALL BE A MINIMUM OF 3/8" IN DIAMETER. ALL LIGHTING FIXTURES AT SUSPENDED CEILINGS SHALL BE PROPERLY SUPPORTED.

23. ELECTRICAL AND TECHNOLOGY ALTERATION AND DEMOLITION:

- A. A COMPLETE AND ACCURATE DESCRIPTION OF ALL ELECTRICAL WORK WITHIN THE AFFECTED AREAS CANNOT BE ACCOMPLISHED THROUGH THE MEDIA OF DRAWINGS AND SPECIFICATIONS. IN EVERY CASE WHERE SUCH EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, PERFORM WHATEVER WORK AND PROVIDE WHATEVER MATERIALS ARE REQUIRED IN ORDER TO REMOVE, REROUTE, RELOCATE OR IN OTHER WAYS ALTER THAT EXISTING INTERIOR AND/OR SITE ELECTRICAL AND TECHNOLOGY WORK. SUCH PERFORMANCE AS GENERALLY OUTLINED HEREIN AND AS IS FOUND NECESSARY UNDER FIELD CONDITIONS SHALL BE CONSIDERED IS INCLUDED UNDER THE CONTRACT.
- B. THE ELECTRICAL DRAWINGS ARE GENERALLY INSTRUCTIVE OF THE ALTERATIONS WHICH INVOLVE THE EXISTING ELECTRICAL WORK. IT IS NOT INTENDED THAT SUCH ALTERATIONS BE LIMITED TO THESE INSTRUCTIONS.
- C. WHERE EXISTING INTERIOR AND/OR SITE ELECTRICAL WORK MUST BE REMOVED AS A RESULT OF THE ALTERATIONS, IT SHALL BE COMPLETELY REMOVED, BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFFECTED BY THE REVISION. ALL CONDUIT, WIRE, SUPPORTS, HANGERS, ETC. ARE INCLUDED. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, ALL WIRE SHALL BE PULLED OUT OF CONDUIT AND THE CONDUIT ITSELF
- D. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING INTERIOR AND/OR SITE LIGHTING FIXTURES, SWITCHES, RECEPTACLES, SIGNAL LIGHTS, SPEAKERS, INTERCOM EQUIPMENT, EMERGENCY CALL PHONES, CONTROLS, CONDUIT OUTLETS, FITTINGS, WIRE, CABLE AND OTHER DEVICES WHICH AREA REMOVED AS A RESULT OF THE ALTERATIONS SHALL BE STORED ON THE SITE AS DIRECTED.
- E. ALL ITEMS OF EXISTING EQUIPMENT, MATERIALS, FIXTURES, ETC. SHALL REMAIN THE PROPERTY OF THE BUILDING OWNER ALL REUSABLE ITEMS SALVAGED DURING DEMOLITION SHALL BE RETAINED AND TURNED OVER TO THE BUILDING OWNER.
- F. LEGALLY DISPOSE ALL ITEMS REJECTED OR UNWANTED BY THE BUILDING OWNER. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, WITH THE EXCEPTION OF WIRE AND CABLE, AS GENERALLY OUTLINED IN THE PREVIOUS PARAGRAPH, SHALL BE REUSED AS COMPLETELY AS IS FOUND PRACTICAL. EXAMINE THE CONDITION OF SUCH MATERIALS AND EQUIPMENT AND MAKE A PRIOR DETERMINATION OF WHETHER IT IS SUITABLE FOR REUSE, PRESENT FINDINGS PERIODICALLY TO THE ARCHITECT WHO IN TURN WILL MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE SHALL BE NEW.
- G. THIS CONTRACTOR SHALL REPAIR ALL DAMAGES TO EXISTING CONSTRUCTION DUE TO DEMOLITION, ALTERATIONS, OPERATION OR INSTALLATION OF NEW WORK.
- H. THIS CONTRACTOR SHALL PERFORM ALL INTERIOR AND/OR SITE CUTTING AND PATCHING FOR ELECTRICAL AND TECHNOLOGY WORK

ABBREVI	IATIONS		
AC	ABOVE COUNTER	JB	JUNCTION BOX
AFF	ABOVE FINISHED FLOOR	KV	KILOVOLT
BPS	BOLTED PRESSURE SWITCH	KW	KILOWATT
BFP	BLOWN FUSE PROTECTION	LTG	LIGHTING
СВ	CIRCUIT BREAKER	MCB	MAIN CIRCUIT BREAKER
ССТ	CIRCUIT	MMD	MULTI-METERING DEVICE
со	CONDUIT ONLY	MLO	MAIN LUGS ONLY
СР	CONTROL PANEL	NC	NORMALLY CLOSED (CONTACTS)
DISC	DISCONNECT	NIC	NOT IN CONTRACT
DN	DOWN	NO	NORMALLY OPEN (CONTACTS)
DPDT	DOUBLE POLE DOUBLE THROW	NTS	NOT TO SCALE
E	EXISTING TO REMAIN	PNL	PANEL
EM	EMERGENCY	PRI	PRIMARY
EPO	EMERGENCY POWER OFF	R	EXISTING TO BE REMOVED
ESP	ELEVATOR STATUS PANEL	RCP	REFLECTED CEILING PLAN
EWC	ELECTRIC WATER COOLER	SEC	SECONDARY
FA	FIRE ALARM	SW	SWITCH
FAA	FIRE ALARM ANNUNCIATOR	Т	TELEPHONE
FCU	FAN COIL UNIT	TP	TAMPER PROOF
FPB	FAN POWERED BOX	UH	UNIT HEATER
GFI	GROUND FAULT INTERRUPTER	WP	WEATHERPROOF
GRD	GROUND	WT	WATERTIGHT
HP	HORSEPOWER		

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Chicago, IL 60642

Revision Schedule

Description ISSUE FOR PERMIT 04.03.2020

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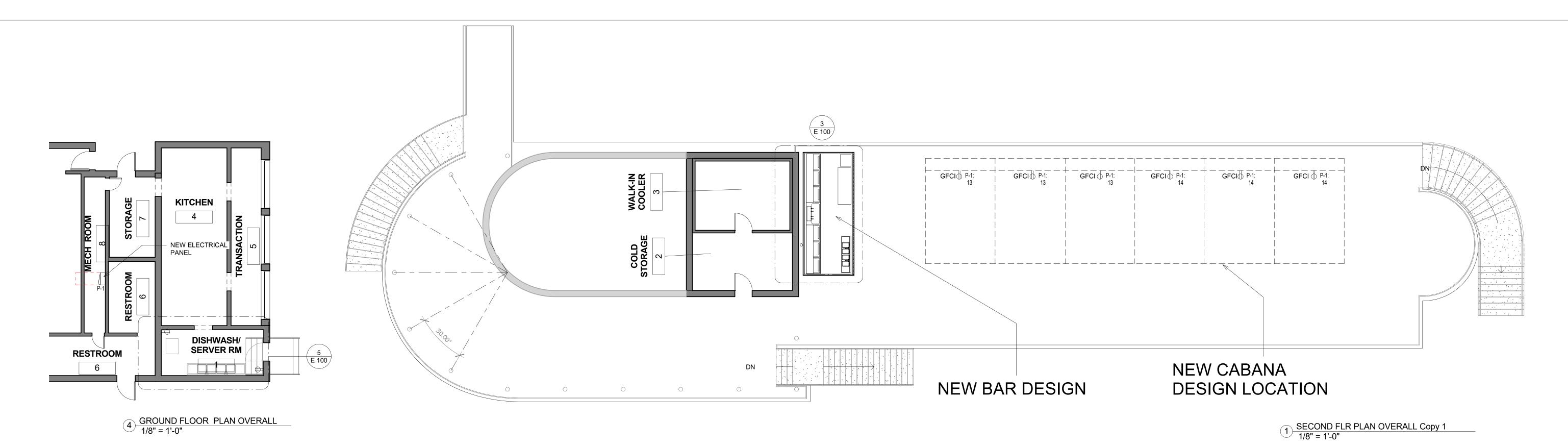
2. CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL FIGURED DIMENSIONS AND CONDITIONS AT THE JOBSITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS. BEGINNING OR FABRICATION OF ANY WORK, NO DOCUMENTS SHALL BE CONSIDERED TO

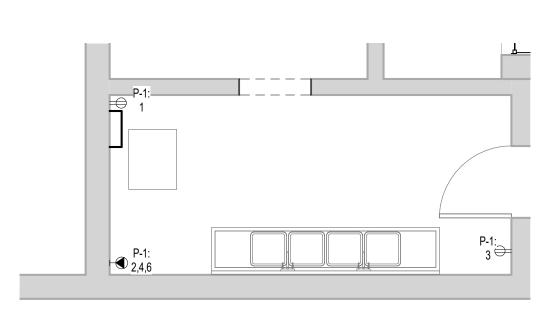
ESTABLISH A CONSTRUCTIONTOLERANCE 3. DO NOT SCALE THESE DRAWINGS.

FOR REVIEW ISSUE DATE: 04/03/20

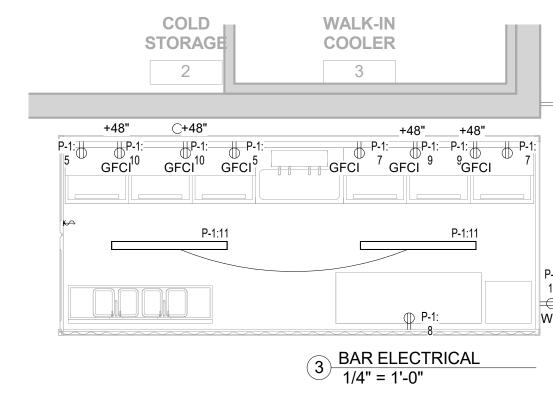
12" = 1'-0"

ELECTRICAL SYMBOLS. NOTES & ABBREVIATIONS









INTING TYPE: SUBSACE MOUNTED	LOCATION: MECHANICAL ROOM			120/208 V	v y C		A.I.C. Rating		10			L BUS: STANDAR	
MOUNTING TYPE: SURFACE MOUNTED			PHASES:				MAINS TYPE:			GROUNI	D BUS: STANDAR	D, COPPER	
ENCLOSURE: NEMA 1 PANEL													
FED FROM: MAIN PANEL		MC	CB TYPE:	COPPER			MCB RATING	:					
Load Name	TRIP	POLES	,	A		В	C	:	POLES	TRIP	L	oad Name	CCT
ANKLESS GAS WATER HEATERS	20 A	1	180 VA	667 VA					3	40 A	DISHWASHER		2
BUG ZAPPER	20 A	1			180 VA	667 V							4
		1					360 VA	667 VA					6
		1	360 VA	180 VA					1				8
		1			360 VA	360 V			1	20 A	COUNTER REC	EPTACLE	10
		1					104 VA						12
	20 A	1	540 VA	540 VA					1	20 A	CABANAS REC	EPTACLE	14
EXTERIOR RECEPTACLE	20 A	1			180 VA								16
													18
													20
		TOTAL LOAD:	246	7 VA	174	7 VA	1131	VA					
		TOTAL AMPS:	21	1 A	15	5 A	9.	A					
LASSIFICATIONS:		CONN	ECTED LC	DAD I	DEMAND FA	CTOR	ESTIMATED	DEMAND			PANEL T	OTALS	
ICAL HEATING			0 VA		0.00%		0 VA		TOTAL CONNE		ECTED LOAD: 5344 VA		
		104 VA			100.00%		104 V	/ A	TOTAL EST. DEMAN		EST. DEMAND: 2	. DEMAND : 2724 VA	
EQUIPT.			0 VA		0.00%		0 VA	4		•	TOTAL CONN.:	15 A	
ACLE			5240 VA		50.00%)	2620 VA		1	TOTAL EST. DEMAND: 8 A		3 A	
	Load Name CANKLESS GAS WATER HEATERS BUG ZAPPER UNDERCOUNTER COOLER UNDERCOUNTER COOLER RECEPTACLE ABOVE COUNTER LIGHTING CABANAS RECEPTACLE EXTERIOR RECEPTACLE EXTERIOR RECEPTACLE EXTERIOR RECEPTACLE EXTERIOR RECEPTACLE LASSIFICATIONS: ICAL HEATING	Load Name TRIP TANKLESS GAS WATER HEATERS BUG ZAPPER JINDERCOUNTER COOLER JINDERCOUNTER COOLER RECEPTACLE ABOVE COUNTER CABANAS RECEPTACLE EXTERIOR RECEPTACLE LASSIFICATIONS: ICAL HEATING EQUIPT.	Load Name TRIP POLES ANKLESS GAS WATER HEATERS BUG ZAPPER JINDERCOUNTER COOLER JINDERCOUNTER COOLER JINDERCOUNTER COOLER JINDERCOUNTER COUNTER RECEPTACLE ABOVE COUNTER LIGHTING CABANAS RECEPTACLE EXTERIOR RECEPTACLE TOTAL LOAD: TOTAL LOAD: LASSIFICATIONS: ICAL HEATING EQUIPT.	Load Name	NCB TYPE: COPPER	TRIP POLES TRIP TRIP	Name	NCB TYPE: COPPER MCB RATING	NAME	NCB TYPE: COPPER MCB RATING:	Name	Note	FED FROM: MAIN PANEL MCB TYPE: COPPER MCB RATING:

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THE DOCK AT BRADFORD BEACH 2400 N LINCOLN MEML DR, MILWAUKEE, WI 53211

PERMIT

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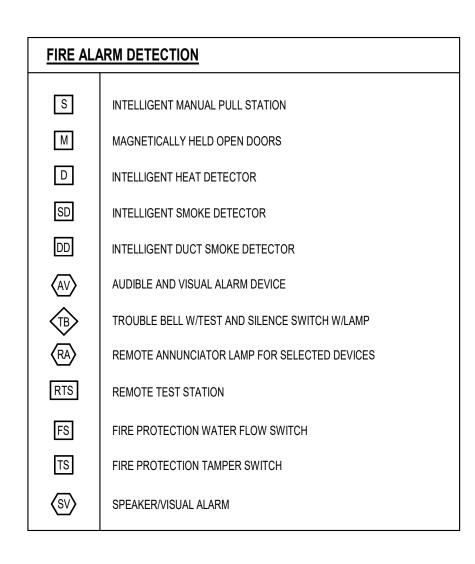
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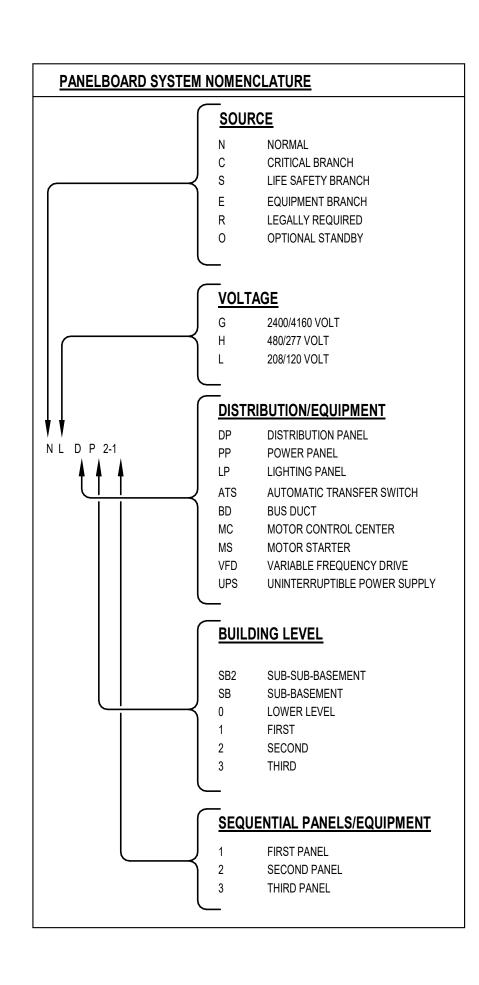
BOCUMENTS SHALL BE CONSIDERED TO ESTABLISH A CONSTRUCTIONTOLERANCE

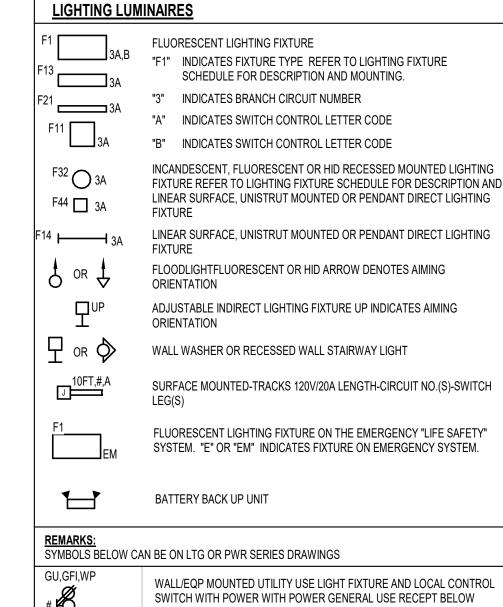
3. DO NOT SCALE THESE DRAWINGS.

SEAL:

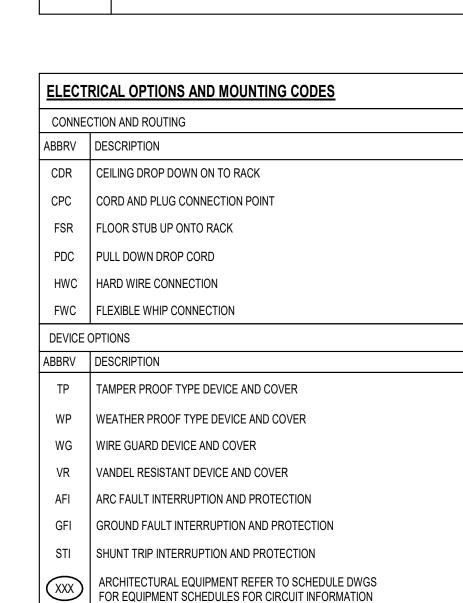
FOR REVIEW
ISSUE DATE:
04/03/20
SCALE:
As indicated
SHEET NAME:
ELECTRICAL FLOOR PLAN







RISER ELE	CTRICAL DIAGRAM/SYMBOLS						
<u>}</u> {	POLY PHASE TRANSFORMER						
36	POTENTIAL TRANSFORMER						
	CURRENT TRANSFORMER						
	GROUND						
	CONTACTOR						
- ⊶	CIRCUIT BREAKER						
_~	SINGLE THROW SWITCH						
	FUSE						



	OARDS AND CONTROLLERS
5	FLUSH MOUNTED PANEL - SEE DESCRIPTION FOR TYPE
<u> </u>	SURFACE MOUNTED PANEL - SEE DESCRIPTION FOR TYPE
	FREE STANDING RACK/CABINET/HOUSING
CONDUIT	S RACEWAYS WIREWAYS & J-BOXES
	TWO CHANNEL MULTI-OUTLET RACEWAY FOR SURFACE MOUNT POWER & TOPENINGS
	CABLE TRAY SEE SPECIFICATION FOR TYPE
Ī	
	INDICATES GROUND CONDUCTOR IN CONDUIT
	INDICATES GROUND CONDUCTOR IN CONDUIT INDICATES GROUND AND TWO UNGROUNDED CONDUCTORS IN CONDUIT
+ +	
★ ≠ ≠	INDICATES GROUND AND TWO UNGROUNDED CONDUCTORS IN CONDUIT INDICATES GROUND AND THREE UNGROUNDED CONDUCTORS IN CONDUIT
(+ + + +	INDICATES GROUND AND TWO UNGROUNDED CONDUCTORS IN CONDUIT INDICATES GROUND AND THREE UNGROUNDED CONDUCTORS IN CONDUIT INDICATES GROUND, GROUNDED AND ONE UNGROUNDED CONDUCTORS IN CONDUIT
\(\frac{\pm}{\pm}\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	INDICATES GROUND AND TWO UNGROUNDED CONDUCTORS IN CONDUIT INDICATES GROUND AND THREE UNGROUNDED CONDUCTORS IN CONDUIT INDICATES GROUND, GROUNDED AND ONE UNGROUNDED CONDUCTORS IN CONDUIT INDICATES GROUND, GROUNDED AND TWO UNGROUNDED CONDUCTORS IN

$\left\langle \begin{array}{c} \chi \chi \chi \chi \\ \chi \end{array} \right\rangle$	MOTOR-LISTED EQUIPMENT REFER TO SCHEDULE DWGS FOR EQUIPMENT SCHEDULES FOR CIRCUIT INFORMATION
X	MOTOR CONNECTION
\boxtimes	ENCLOSED MAGNETIC MOTOR STARTER
STR	COMBO MAGNETIC MOTOR STARTER W/ OCPD & LOCK-OUT TAG-OUT DISCONNECT SWITCH
VFC	COMBINATION VARABLE FREQUENCY CONTROLLER W/OCPD & LOCK-OUT T/OUT DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH & LOCK-OUT TAG-OUT

JUNCTION BOX - WALL MOUNTED

MOTORS & LISTED EQUIPMENT CONTROLLERS

LIGHT FIXTURE MOTOR, LISTED-EQUIPMENT, SWITCHES-OPERATORS

3 \$ A	"A-Z"	SWITCH LEG CONTROL LETTER CODE(S)
LCC K	"D"	DIMMER 1,000W CONTROL SWITCH
	"2"	DOUBLE-POLE TOGGLE SWITCH
	"3"	TRIPPLE POLE TOGGLE SWITCH
	"3W"	THREE WAY SWITCH
	"4W"	FOUR WAY SWITCH
	"K"	KEY OPERATED SWITCH
	"O"	OCCUPANCY SENSOR SWITCH
	"P"	TOGGLE SWITCH WITH PILOT LIGHT
	"TM"	ROTARY SWITCH WITH TIMER CONTROL
	"T"	THERMAL SWITCH
	"WS"	WALL SWITCH
	"T/S"	TEMP/SENSOR SWITCH
	"W-STAT"	WALL LINE VOLTAGE STAT
	"LV(2)"	LOW VOLTAGE SWITCHING SYSTEM # QUANTITY OF LV SWITCHES

FUSED DISCONNECT SWITCH & LOCK-OUT TAG-OUT

"LM" MASTER SWITCH FOR LOW VOLTAGE SWITCHING SYSTEM "MC" MOMENTARY CONTACT SWITCH

"LCC" SWITCH LEG TO LTG CONTACTOR COIL "LCC"

LTG SWITCHES SHOWN ON LTG PLAN VIEWS, EQP SWITCHES SHOWN ON PWR PLAN VIEWS

SINGLE POLE TWO-POSITION 20A TOGGLE SWITCH U.N.O. ON THE DWGS WITH

SINGLE POLE TWO-POSITION 20A TOGGLE SWITCH U.N.O. ON THE DWGS WITH

CEILING MOUNTED DUAL TECHNOLOGY 360° OCCUPANCY SENSOR, UNLESS NOTED OTHERWISE

WALL SWITCH MOUNTED PASSIVE INFRARED 180° OCCUPANCY SENSOR

(LC) 4-ZONE PRE-SET LIGHTING CONTROL STATION WITH FADERS

(FL) JUNCTION BOXES FOR FLUSH SENSORS. CONTRACTOR TO PROVIDE CIRCUIT SHOWN AND ALL ASSOCIATED CONDUIT AND WIRING FOR A COMPLETE AND OPERATING SYSTEM. TYPICAL FOR EVERY LAVATORY, URINAL AND TOILET FLUSH LOCATION. MULTIPLE LAVATORIES AT TOILETS REQUIRED A SINGLE CONNECTION. PROVIDE TRANSFORMERS ABOVE CEILING W/ ACCESS PANELS AND PROVIDE GFI CKT BREAKER AT CORRESPONDING BREAKER.

GENERAL ELECTRICAL NOTES

1. DEFINITIONS

"FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO DELIVERY OF AN ITEM OF EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION. EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION. "INSTALL" MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER.

PROVIDE" MEANS TO "FURNISH" AND "INSTALL". "FUTURE", "BY OTHERS", "REFER (DISCIPLINE) DIVISION" AND SIMILAR EXPRESSIONS INDICATE WORK THAT MAY BE PERFORMED UNDER THE CONTRACT DOCUMENTS BUT, NOT NECESSARILY UNDER THE DIVISION OR DISCIPLINE ON WHICH THE NOTE APPEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS. EMPLOYEES, ETC. SHOULD CLARIFICATION OF ANY PORTION OF THE WORK BE REQUIRED, CONTACT THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID.

2. CODES

THE WORK SHALL COMPLY WITH LATEST EVANSTON BUILDING CODE. THIS WOULD INCLUDE. BUT IS NOT LIMITED TO, THE CURRENT CITY BUILDING CODE. AMMENDMENTS, NFPA, ANSI, OSHA, AND ALL OTHER LOCAL OR MUNICIPAL BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT; ANYTHING IN THESE CONTRACT THIS SHALL NOT BE CONSTRUED AS WAIVING COMPLIANCE WITH ANY REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF ANY REQUIREMENTS OF THESE CODES.

3. INTERPRETATION OF THE DOCUMENTS

THE CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING THE MEASUREMENTS AND CONDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS AND/OR SPECIFICATIONS, THE DISPUTED ISSUE SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO-STATED IN THE CONTRACTOR'S PROPOSAL, ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL.

4. COORDINATION

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. TO THIS EXTENT, DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES. WHERE THERE ARE POTENTIAL CONFLICTS. THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS. MEASUREMENTS. LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL FIELD CONDITIONS. REFER TO ARCHITECTURAL/MECHANICAL DRAWINGS FOR PLANS, ELEVATIONS AND DETAILS INDICATING THE LOCATIONS OF CEILING ELEMENTS (E.G., LIGHTS, SPRINKLERS, DIFFUSERS, ETC.) AND WALL ELEMENTS. CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.

5. SITE EXAMINATION

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE IMPLEMENTED. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELEIVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE

THE CONTRACTOR SHALL SECURE, OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TAXES, LICENCES, AND FEES TO ALL GOVERNMENT AGENCIES REQUIRED FOR THE EXECUTION AND COMPLETION OF THE ELECTRICAL WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE GOVERNMENTAL AGENCIES AND UTILITY COMPANIES FOR THEIR APPROVAL.

7. SAFETY

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLIENT'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, EQUIPMENT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.

8. CONTRACTOR'S DRAWING REVIEW

ALL CONTRACTORS/BIDDERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. CONDUIT LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION, OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES OR COMMUNICATION CONDUITS. THE CONTRACTOR SHALL CONFIRM THAT CONDUIT LOCATE SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONFLICTS EXIST BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE.

9. STATEMENT OF WORK

THE CONTRACTOR SHALL PROVIDE THE COMPLETE ELECTRICAL INSTALLATION OF WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS. PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, ANY SEQUENCE OF WORK, MOP'S (METHOD OF PROCEDURE) AND/OR COORDINATION SHOP DRAWINGS FOR THE INTENDED WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.

10. WORK PERFORMANCE REQUIREMENTS

ANY PENETRATIONS OR OPENINGS IN FIRE-RATED PARTITIONS (WALLS OR FLOORS) SHALL BE CLOSED AT THE END OF EACH WORK DAY, OR WHENEVER IT IS ANTICIPATED THAT NO FURTHER WORK WILL OCCUR IN THAT OPENING DURING THE DAY. THIS INCLUDES ALL TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING END OF EACH WORK DAY. ALL TEMPORARY WALL AND FLOOR OPENINGS SHALL BE PROTECTED AND MARKED AT ALL TIMES. PAINTING SHALL BE SCHEDULED SUCH THAT DRYING TIME OCCURS DURING NON-WORKING HOURS FOR OPERATIONS PERSONNEL COMFORT. NO WELDING SHALL TAKE PLACE INSIDE OF OPERATING FACILITY WITHOUT THE WRITTEN AUTHORIZATION OF THE OWNER'S PROJECT REPRESENTATIVE. WELDING SHALL NOT TAKE PLACE WITHIN 5 FEET OF ANY TELECOM EQUIPMENT RACK WITHOUT ADEQUATE PROTECTIVE MEASURES, AS DEEMED APPROPRIATE BY THE OWNER'S PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL CHECK, VERIFY AND LABEL PHASE ROTATION ANY TIME LEADS ARE CONNECTED TO A NEW OR EXISTING AC SERVICE, GENSET, RECTIFIER OR ANY MOTOR-EQUIPPED. 3-PHASE EQUIPMENT. ALL THREE-PHASE PANELS SERVING SINGLE-PHASE LOADS SHALL BE BALANCED WITHIN 10 PERCENT, USING AMMETER READINGS. MEASUREMENTS SHALL BE TAKEN AT THE END OF CONSTRUCTION AND AGAIN AFTER 30 DAYS IN SERVICE.

11. CUTTING AND PATCHING

ALL CUTTING, DRILLING AND PATCHING OF MASONRY STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTIONS OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE.

12. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE ALL "AS-BUILT" DRAWINGS SACLED 1/4" MINIMUM AND SUBMIT FOR APPROVAL TO THE ARCHITECT/ENGINEER.

13. FIRESTOPPING

ALL PENETRATIONS IN WALLS, FLOORS, OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH A FIRE-STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. ONLY PRODUCTS MANUFACTURED BY HILTI SHALL BE PREFERRED (NO SUBSTITUTIONS).

14. TEMPORARY POWER AND LIGHTING

THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR THIS WORK DURING CONSTRUCTION. TEMPORARY LIGHTING SHALL AT LEAST BE THE EQUAL OF (1)100-WATT FIXTURE EVERY 100 SQUARE FEET, WITH A MINIMUM ONE FIXTURE PER ROOM. TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL. COORDINATE TEMPORARY POWER REQUIREMENTS WITH THE OTHER TRADES AND PROVIDE ADEQUATE PROVISIONS. THE CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD AND UTILITY COMPANY.

15. SWITCH AND RECEPTACLE IDENTIFICATION

PROVIDE MACHINE-PRINTED, PRESSURE SENSITIVE, ABRASION RESISTANT LABEL TAPE ON FACE OF ALL DEVICE PLATES TO IDENTIFY THE PANELBOARD AND CIRCUIT NUMBER FROM WHICH EACH DEVICE IS SERVED.

17. PANELBOARDS

ALL PANELBOARDS IN WHICH WORK OCCURS PER THESE DOCUMENTS, SHALL BE PROVIDED WITH UPDATED-TYPEWRITTEN DIRECTORIES. GIVEN ONLY FOR CLARITY AND QUANTITY. CIRCUIT NUMBERS SHOWN IN THE PLANS MAY NOT NECESSARILY REPRESENT ACTUAL CIRCUIT NUMBERS IN PANELBOARD. FROM FLUSH-MOUNTED PANELBOARDS, STUB-OUT ONE 3/4" CONDUIT INTO THE CEILING CAVITY FOR EACH SET OF 3 SPARES AND/OR SPACES OR FRACTION THEREOF.

18. WIRING

UNLESS NOTED OTHERWISE, ALL WIRE AND CABLE SHALL BE 600-VOLT COPPER CONDUCTORS WITH TYPE "THHN/THWN" INSULATION. MINIMUM WIRE SIZE SHALL BE #12 AWG FOR LIGHTING AND POWER CIRCUITS AND #14 AWG FOR CONTROL CIRCUITS. PROVIDE GROUNDING FOR CIRCUITS PER MILWAKEE BUILDING CODE, UNLESS SPECIFICALLY NOTED OTHERWISE IN THE PLANS, ALL CABLING SHALL BE (2) #12 AND (1) #12 G IN 3/4" C. (NO SHARED NEUTRALS).

19. CONDUIT/RACEWAY SYSTEMS

THE CONDUIT ROUTINGS INDICATED ARE ONLY DIAGRAMMATIC IN NATURE. FIELD CONDITIONS SHALL DICTATE THE CONTRACTOR'S EXACT CONDUIT ROUTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER THE CBC AND FOR COORDINATION WITH OTHER DISCIPLINES. ALL EXPOSED RACEWAYS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS, SUCH AS TO FOLLOW STRUCTURAL SURFACE CONTOURS AND NOT OBSTRUCT PASSAGEWAYS. MULTIPLE RACEWAYS SHALL BE RUN TOGETHER, IN GROUPING. ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT SHALL BE COORDINATED WITH THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL. NO ADDITIONAL COST TO OWNER WILL BE ALLOWED DUE TO LACK OF COORDINATION. ALL CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT) AND MINIMUM SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. CONNECTORS AND COUPLINGS SHALL BE INSULATED-THROAT COMPRESSION TYPE ONLY. RIGID GALVANIZED-STEEL (RGS) CONDUIT SHALL BE USED WHEN CONDUIT IS INSTALLED IN OUTDOOR AREAS OR WHERE OTHERWISE EXPOSED TO PHYSICAL HARM. EMERGENCY SYSTEMS SHALL BE RUN IN SEPARATE RACEWAY/CONDUIT SYSTEM(S). A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS, WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY OR CABLE ARMOR/SHEATH SHALL NOT BE USED AS THE PRIMARY EQUIPMENT GROUNDING CONDUCTOR. RACEWAY SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS AND SHALL BE BONDED AT ALL POINTS TO THE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH THE APPLICABLE PROVISIONS IN ARTICLE 250 OF MILWAKEE BUILDING CODE.

20. EQUIPMENT

ALL MATERIALS AND EQUIPMENT PROVIDED IN THIS WORK SHALL BE NEW AND SHALL HAVE THE APPROPRIATE UL LISTING AND/OR FM APPROVAL. UNLESS NOTED OTHERWISE, DISCONNECT/SAFETY SWITCHES SHALL BE NON-FUSED HEAVY-DUTY 600-VOLT TYPE. INDOOR ENCLOSURES SHALL BE NEMA 1 AND OUTDOOR ENCLOSURES SHALL BE NEMA 3R.

21. MECHANICAL EQUIPMENT

ALL MECHANICAL EQUIPMENT WILL BE INSTALLED BY THE DIVISION 22 & 23 CONTRACTOR. COORDINATE THE EXACT LOCATION AND NATURE OF ANY REQUIRED ELECTRICAL CONNECTION TO BE PROVIDED FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN. VERIFY THE ELECTRICAL SERVICE REQUIRED FOR EACH ITEM OF MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FURNISHING SUCH POWER. REFER TO MECHANICAL DRAWING FOR MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. MAKE CONNECTION AND PROVIDE APPROPRIATE WIRE, CONDUIT AND OVER CURRENT PROTECTION FOR EQUIPMENT. THE DISCONNECTING MEANS FOR ALL MECHANICAL EQUIPMENT SHALL BE ACCESSIBLE AND HAVE CLEARANCES AS REQUIRED BY THE CBC. MOTORS SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 22 & 23 WORK. WITH POWER CONNECTED UNDER DIVISION 16 WORK. FINAL CONNECTION SHALL BE MADE WITH SUITABLE LENGTH OF LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT. ALL MOTOR BRANCH CIRCUITS, ETC., SHALL BE FIELD-VERIFIED FOR PROPER SEQUENCE AND MOTOR ROTATION, PHASE SEQUENCE SHALL BE A-B-C (VIEWED FROM FRONT: LEFT TO RIGHT, TOP TO BOTTOM, FRONT TO REAR). REFER TO MECHANICAL DRAWINGS FOR MOTORS THAT ARE TO BE INTERLOCKED.

22. MISCELLANEOUS SUPPORTING MEMBERS

UNLESS NOTED OTHERWISE.

ALL ANGLES, CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, THREADED RODS, ETC., REQUIRED TO SUPPORT LIGHT FIXTURES, LADDER TRAY OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL THREADED RODS SHALL BE A MINIMUM OF 3/8" IN DIAMETER. ALL LIGHTING FIXTURES AT SUSPENDED CEILINGS SHALL BE PROPERLY SUPPORTED.

23. ELECTRICAL AND TECHNOLOGY ALTERATION AND DEMOLITION:

- A. A COMPLETE AND ACCURATE DESCRIPTION OF ALL ELECTRICAL WORK WITHIN THE AFFECTED AREAS CANNOT BE ACCOMPLISHED THROUGH THE MEDIA OF DRAWINGS AND SPECIFICATIONS. IN EVERY CASE WHERE SUCH EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, PERFORM WHATEVER WORK AND PROVIDE WHATEVER MATERIALS ARE REQUIRED IN ORDER TO REMOVE, REROUTE, RELOCATE OR IN OTHER WAYS ALTER THAT EXISTING INTERIOR AND/OR SITE ELECTRICAL AND TECHNOLOGY WORK. SUCH PERFORMANCE AS GENERALLY OUTLINED HEREIN AND AS IS FOUND NECESSARY UNDER FIELD CONDITIONS SHALL BE CONSIDERED IS INCLUDED UNDER THE CONTRACT.
- B. THE ELECTRICAL DRAWINGS ARE GENERALLY INSTRUCTIVE OF THE ALTERATIONS WHICH INVOLVE THE EXISTING ELECTRICAL WORK. IT IS NOT INTENDED THAT SUCH ALTERATIONS BE LIMITED TO THESE INSTRUCTIONS.
- C. WHERE EXISTING INTERIOR AND/OR SITE ELECTRICAL WORK MUST BE REMOVED AS A RESULT OF THE ALTERATIONS, IT SHALL BE COMPLETELY REMOVED, BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFFECTED BY THE REVISION. ALL CONDUIT, WIRE, SUPPORTS, HANGERS, ETC. ARE INCLUDED. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, ALL WIRE SHALL BE PULLED OUT OF CONDUIT AND THE CONDUIT ITSELF
- D. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING INTERIOR AND/OR SITE LIGHTING FIXTURES, SWITCHES, RECEPTACLES, SIGNAL LIGHTS, SPEAKERS, INTERCOM EQUIPMENT, EMERGENCY CALL PHONES, CONTROLS, CONDUIT OUTLETS, FITTINGS, WIRE, CABLE AND OTHER DEVICES WHICH AREA REMOVED AS A RESULT OF THE ALTERATIONS SHALL BE STORED ON THE SITE AS DIRECTED.
- E. ALL ITEMS OF EXISTING EQUIPMENT, MATERIALS, FIXTURES, ETC. SHALL REMAIN THE PROPERTY OF THE BUILDING OWNER ALL REUSABLE ITEMS SALVAGED DURING DEMOLITION SHALL BE RETAINED AND TURNED OVER TO THE BUILDING OWNER.
- F. LEGALLY DISPOSE ALL ITEMS REJECTED OR UNWANTED BY THE BUILDING OWNER. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, WITH THE EXCEPTION OF WIRE AND CABLE, AS GENERALLY OUTLINED IN THE PREVIOUS PARAGRAPH, SHALL BE REUSED AS COMPLETELY AS IS FOUND PRACTICAL. EXAMINE THE CONDITION OF SUCH MATERIALS AND EQUIPMENT AND MAKE A PRIOR DETERMINATION OF WHETHER IT IS SUITABLE FOR REUSE, PRESENT FINDINGS PERIODICALLY TO THE ARCHITECT WHO IN TURN WILL MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE SHALL BE NEW.
- G. THIS CONTRACTOR SHALL REPAIR ALL DAMAGES TO EXISTING CONSTRUCTION DUE TO DEMOLITION, ALTERATIONS, OPERATION OR INSTALLATION OF NEW WORK.
- H. THIS CONTRACTOR SHALL PERFORM ALL INTERIOR AND/OR SITE CUTTING AND PATCHING FOR ELECTRICAL AND TECHNOLOGY WORK

ABBREVI	IATIONS		
AC	ABOVE COUNTER	JB	JUNCTION BOX
AFF	ABOVE FINISHED FLOOR	KV	KILOVOLT
BPS	BOLTED PRESSURE SWITCH	KW	KILOWATT
BFP	BLOWN FUSE PROTECTION	LTG	LIGHTING
СВ	CIRCUIT BREAKER	MCB	MAIN CIRCUIT BREAKER
ССТ	CIRCUIT	MMD	MULTI-METERING DEVICE
со	CONDUIT ONLY	MLO	MAIN LUGS ONLY
СР	CONTROL PANEL	NC	NORMALLY CLOSED (CONTACTS)
DISC	DISCONNECT	NIC	NOT IN CONTRACT
DN	DOWN	NO	NORMALLY OPEN (CONTACTS)
DPDT	DOUBLE POLE DOUBLE THROW	NTS	NOT TO SCALE
E	EXISTING TO REMAIN	PNL	PANEL
EM	EMERGENCY	PRI	PRIMARY
EPO	EMERGENCY POWER OFF	R	EXISTING TO BE REMOVED
ESP	ELEVATOR STATUS PANEL	RCP	REFLECTED CEILING PLAN
EWC	ELECTRIC WATER COOLER	SEC	SECONDARY
FA	FIRE ALARM	SW	SWITCH
FAA	FIRE ALARM ANNUNCIATOR	Т	TELEPHONE
FCU	FAN COIL UNIT	TP	TAMPER PROOF
FPB	FAN POWERED BOX	UH	UNIT HEATER
GFI	GROUND FAULT INTERRUPTER	WP	WEATHERPROOF
GRD	GROUND	WT	WATERTIGHT
HP	HORSEPOWER		

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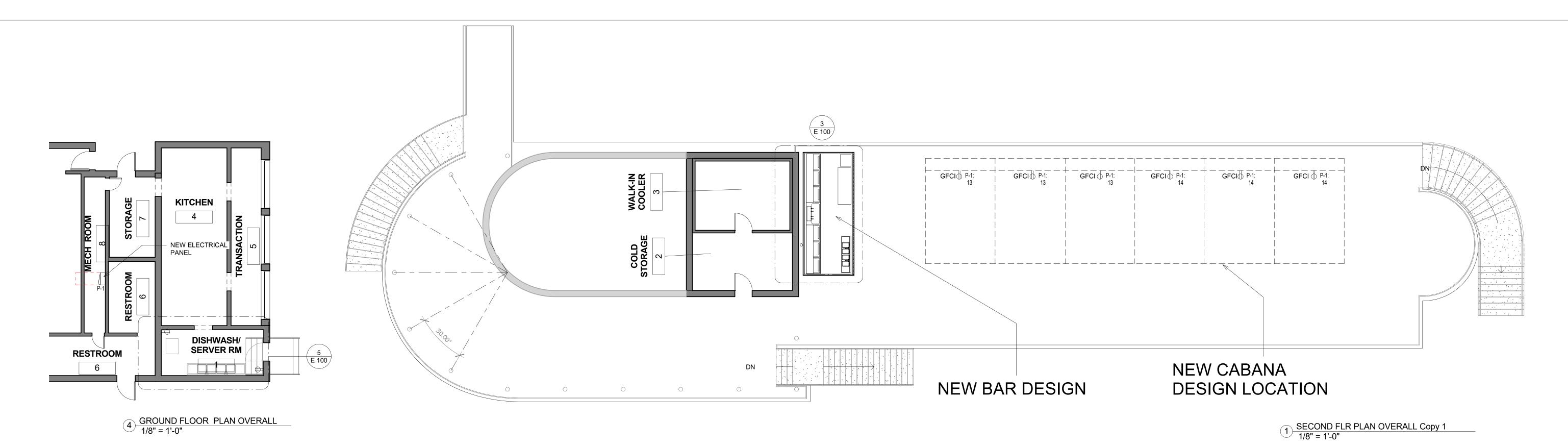
2. CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL FIGURED DIMENSIONS AND CONDITIONS AT THE JOBSITE AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS. BEGINNING OR FABRICATION OF ANY WORK, NO DOCUMENTS SHALL BE CONSIDERED TO

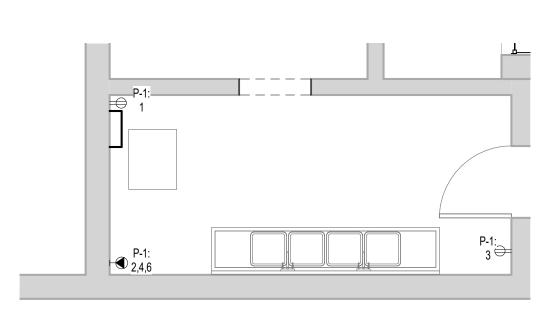
ESTABLISH A CONSTRUCTIONTOLERANCE 3. DO NOT SCALE THESE DRAWINGS.

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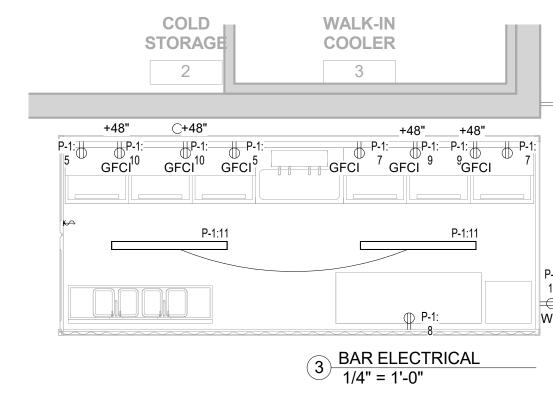
12" = 1'-0"

ELECTRICAL SYMBOLS. NOTES & ABBREVIATIONS









INTING TYPE: SUBSACE MOUNTED	LOCATION: MECHANICAL ROOM			120/208 V	v y C		A.I.C. Rating		10			L BUS: STANDAR	
MOUNTING TYPE: SURFACE MOUNTED			PHASES:				MAINS TYPE:			GROUNI	D BUS: STANDAR	D, COPPER	
ENCLOSURE: NEMA 1 PANEL													
FED FROM: MAIN PANEL		MC	CB TYPE:	COPPER			MCB RATING	:					
Load Name	TRIP	POLES	,	A		В	C	:	POLES	TRIP	L	oad Name	CCT
ANKLESS GAS WATER HEATERS	20 A	1	180 VA	667 VA					3	40 A	DISHWASHER		2
BUG ZAPPER	20 A	1			180 VA	667 V							4
		1					360 VA	667 VA					6
		1	360 VA	180 VA					1				8
		1			360 VA	360 V			1	20 A	COUNTER REC	EPTACLE	10
		1					104 VA						12
	20 A	1	540 VA	540 VA					1	20 A	CABANAS REC	EPTACLE	14
EXTERIOR RECEPTACLE	20 A	1			180 VA								16
													18
													20
		TOTAL LOAD:	246	7 VA	174	7 VA	1131	VA					
		TOTAL AMPS:	21	1 A	15	5 A	9.	A					
LASSIFICATIONS:		CONN	ECTED LC	DAD I	DEMAND FA	CTOR	ESTIMATED	DEMAND			PANEL T	OTALS	
ICAL HEATING			0 VA		0.00%		0 VA		TOTAL CONNE		ECTED LOAD: 5344 VA		
		104 VA			100.00%		104 VA		TOTAL EST. DEMAN		EST. DEMAND: 2	. DEMAND : 2724 VA	
EQUIPT.			0 VA		0.00%		0 VA	4		•	TOTAL CONN.:	15 A	
ACLE			5240 VA		50.00%)	2620 VA		1	TOTAL EST. DEMAND: 8 A		3 A	
	Load Name CANKLESS GAS WATER HEATERS BUG ZAPPER UNDERCOUNTER COOLER UNDERCOUNTER COOLER RECEPTACLE ABOVE COUNTER LIGHTING CABANAS RECEPTACLE EXTERIOR RECEPTACLE EXTERIOR RECEPTACLE EXTERIOR RECEPTACLE EXTERIOR RECEPTACLE LASSIFICATIONS: ICAL HEATING	Load Name TRIP TANKLESS GAS WATER HEATERS BUG ZAPPER JINDERCOUNTER COOLER JINDERCOUNTER COOLER RECEPTACLE ABOVE COUNTER CABANAS RECEPTACLE EXTERIOR RECEPTACLE LASSIFICATIONS: ICAL HEATING EQUIPT.	Load Name TRIP POLES ANKLESS GAS WATER HEATERS BUG ZAPPER JINDERCOUNTER COOLER JINDERCOUNTER COOLER JINDERCOUNTER COOLER JINDERCOUNTER COUNTER RECEPTACLE ABOVE COUNTER LIGHTING CABANAS RECEPTACLE EXTERIOR RECEPTACLE TOTAL LOAD: TOTAL LOAD: LASSIFICATIONS: ICAL HEATING EQUIPT.	Load Name	NCB TYPE: COPPER	TRIP POLES TRIP TRIP	Name	NCB TYPE: COPPER MCB RATING	NAME	NCB TYPE: COPPER MCB RATING:	Name	Note	FED FROM: MAIN PANEL MCB TYPE: COPPER MCB RATING:

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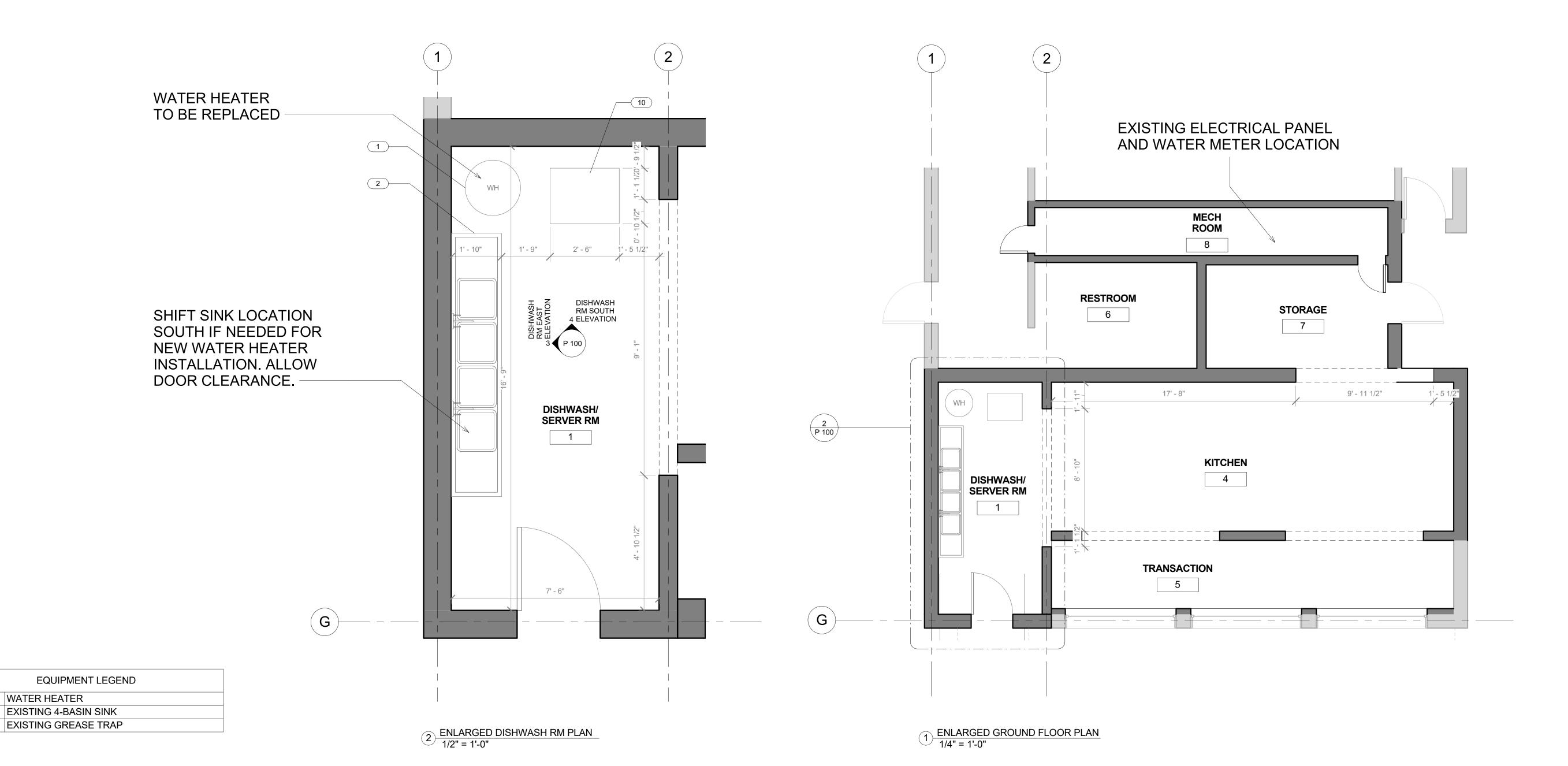
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ELECTRICAL FLOOR PLAN



PLUMBING NOTES:

1. ALL PLUMBING WORK TO BE DONE IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.

2. ALL HOT & COLD WATER SUPPLY PIPING SHALL BE INSULATED WITH A MIN. 1/2" FIBERGLASS INSULATION AND FACTORY APPLIED VAPOR BARRIER WHERE REQUIRED.

3. PROVIDE ROOF OPENINGS AND FLASH ALL PIPING EXTENDED THROUGH ROOF.

4. THE PLUMBING CONTRACTOR SHALL INCLUDE ALL NECESSARY MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION OF THE WATER AND SEWERAGE SYSTEM. PROVIDE ALL ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL PLUMBING FIXTURES. PROVIDE P-TRAPS, AIR CHAMBERS, SUPPLIES AND STOPS, HANGARS, CARRIERS AND MISC.

5. PROVIDE CLEANOUTS IN WASTE AND SOIL LINES FOR EACH CHANGE IN DIRECTION GREATER THAN 45 DEGREES AND AT THE TOP OF EACH STACK.

6. ALL WATER PIPE FIXTURES TO BE VALVED.

7. WATER CLOSETS TO BE MAX. 4 GPF, LAVS TO BE .5 GPM AT 80 PSI, SINK TO BE 2.5 GPM AT 60 PSI AND URINALS TO BE 1GAL/FLUSHING CYCLE.

8. PROVIDE PLUMBING FIXTURES WITH TRAPS AND STOPS AS REQUIRED OR INDICATED.

9. PROVIDE ALL EXCAVATION AND BACKFILL FOR INSTALLATION OF WORK AS NEEDED.

10. PROVIDE AND INSTALL VENTS AS REQUIRED BY CODE.

11. PROVIDE AIR CHAMBERS AND SHUTOFF VALVES FOR ALL PLUMPING FIXTURES.

12. EACH PIPING SYSTEM TO BE SUPPORTED BY THE BUILDING STRUCTURE USING APPROVED TYPE HANGERS AND ATTACHMENTS. HANGARS AND ATTACHMENTS TO BE OF STEEL AND/OR

COPPER COATED CONSTRUCTION, PROVIDED W/ MEANS OF ADJUSTMENTS AFTER ERECTION OF

THE PIPING. HANGER RODS SHALL BE SOLID STEEL AND COMPATIBLE W/ HANGER MATERIAL. 13. PROVIDE SHUT-OFF AND CHECKVALVES AS REQUIRED. 14. WHERE TWO DISSIMILAR METALS ARE JOINED TO MAKE A HOT OR COLD WATER

CONNECTION, PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL A DIELECTRIC UNIT TO PREVENT ELECTROLYSIS.

15.CONTRACTOR TO PROVIDE STEEL PIPE SLEEVES WHERE PIPES PASS THROUGH WALLS AND FLOORS.

16. TEST ALL HOT AND COLD WATER SUPPLY PIPING HYDROSTATICALLY AT 100PSI FOR 2 HOURS.

TEST ALL SEWERAGE AND DRAINAGE PIPING BY FILLING WITH WATER UP TO THE HIGHEST POINT.

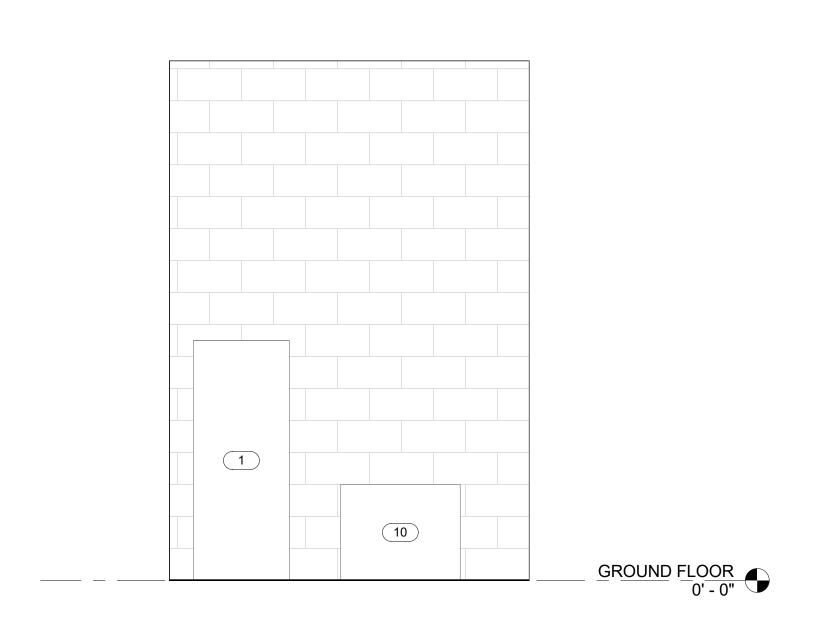
TEST ALL SEWERAGE AND DRAINAGE PIPING BY FILLING WITH WATER UP TO THE HIGHEST POINT IN THE SYSTEM AND ALLOW TO REMAIN FOR 24 HOURS. REWORK, REPAIR AND RETEST ALL JOINTS SHOWING EVIDENCE OF LEAKS.

17. CLEAN ALL HOT AND COLD WATER PIPING SYSTEM CHLORINATE IN ACCORDANCE WITH METHOD PRESCRIBED BY AWWA PRIOR TO TURNING OVER TO OWNER.

18. SERVICE WATER HEATER ON TO BE SET TO 90°F FOR EQUIPMENT.
19. OUTLET TEMPERATURE ON LAVS TO BE MAXIMUM 110°F.

20. ALL LAVATORY FAUCETS ARE PROVIDED WITH AN AUTOMATIC SAFETY WATER MIXING

21. HOT WATER PIPES ARE INSULATED TO ≥R-3



4 DISHWASH RM SOUTH ELEVATION 1/2" = 1'-0"

3 DISHWASH RM EAST ELEVATION 1/2" = 1'-0"

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GROUND FLOOR

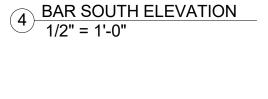
PLUMBING

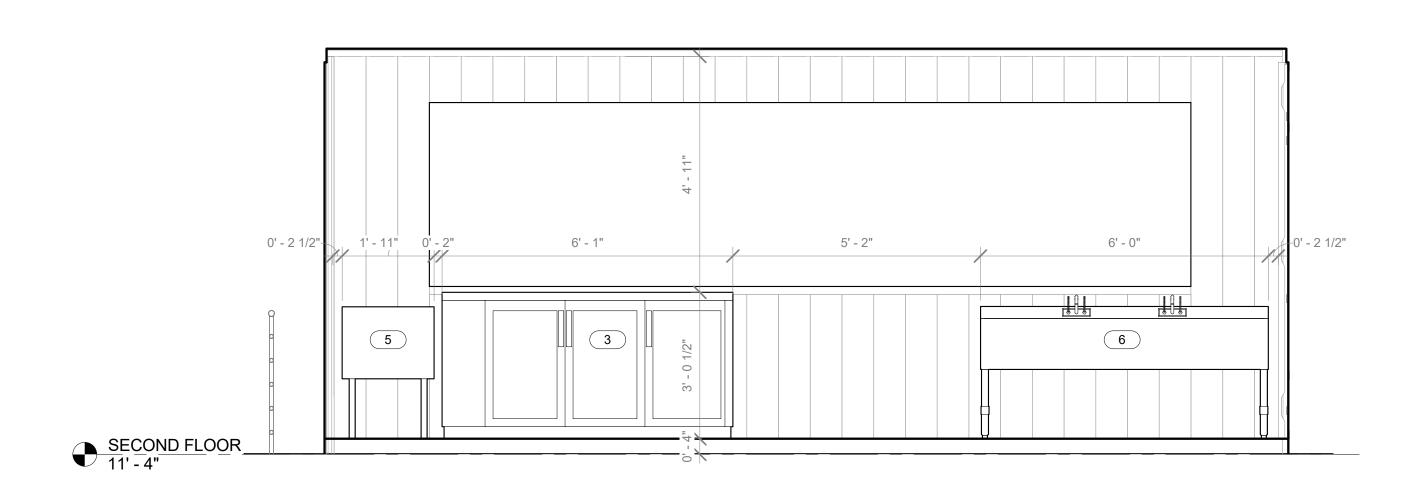
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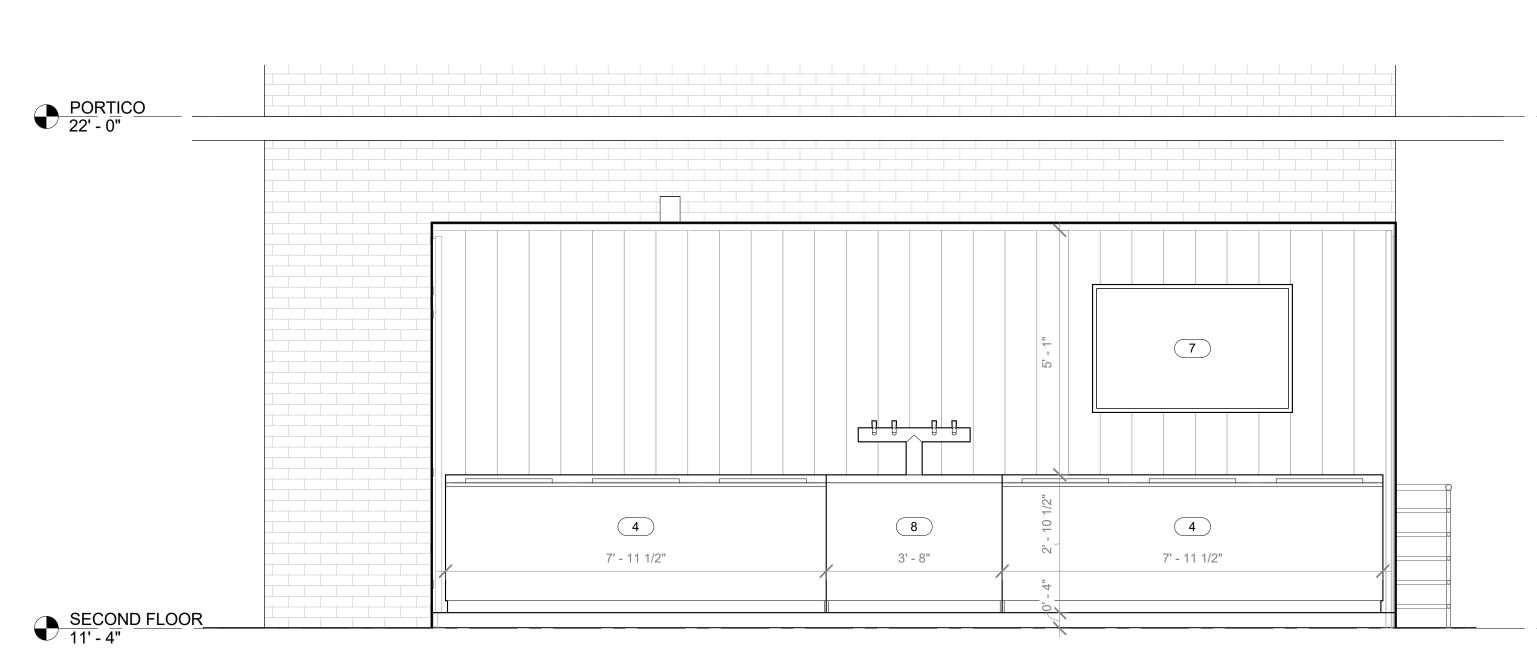
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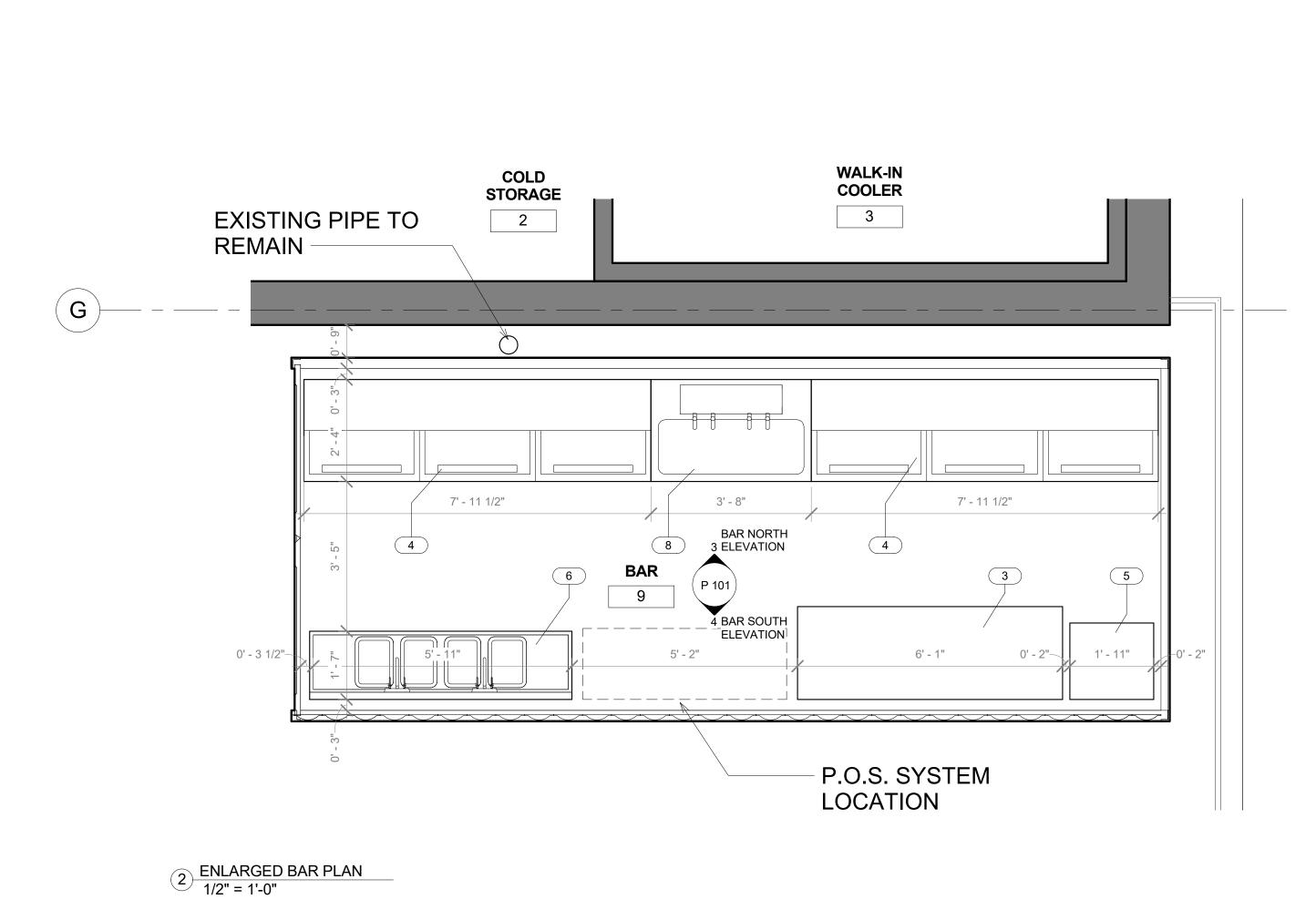




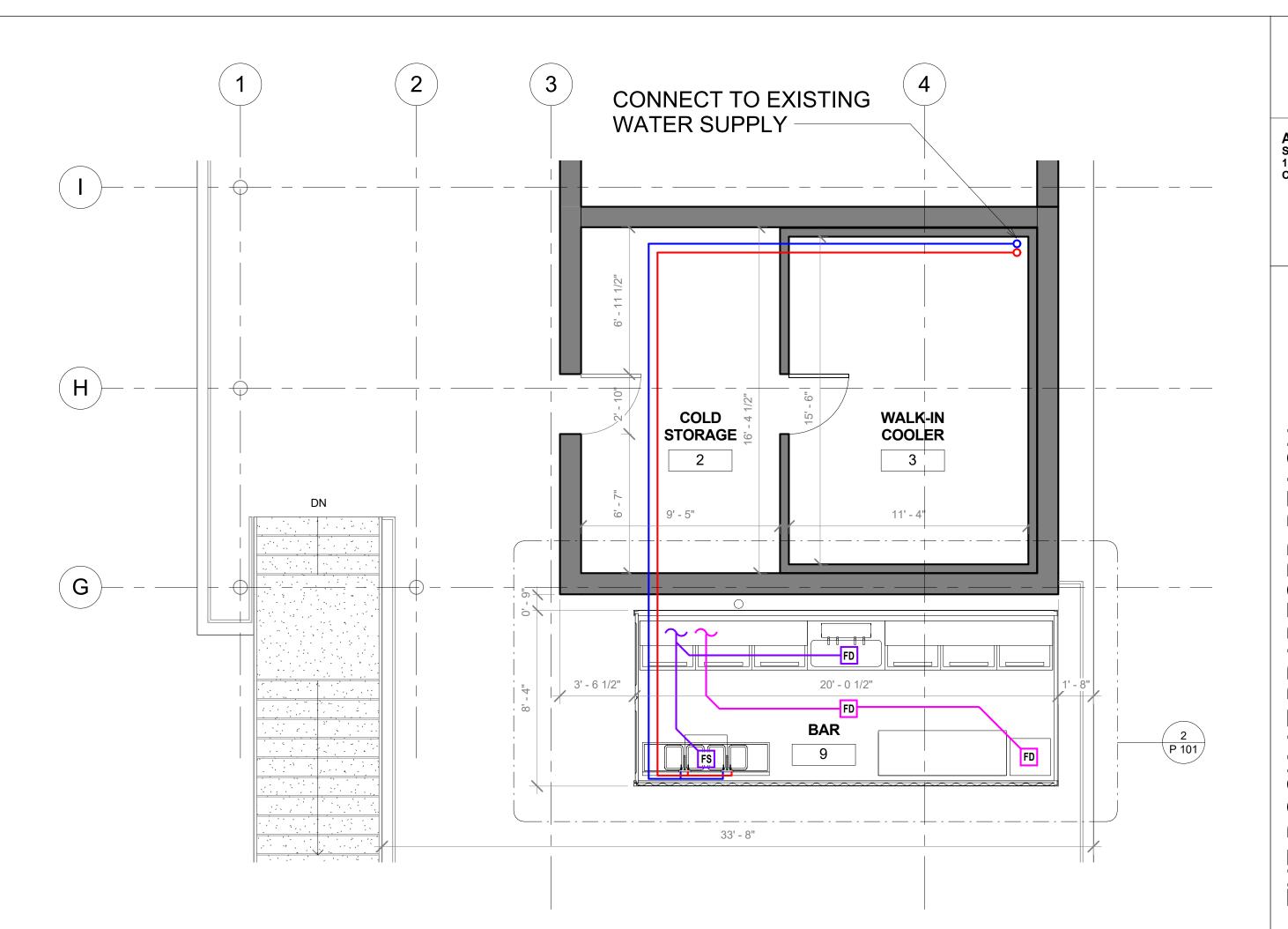


3 BAR NORTH ELEVATION
1/2" = 1'-0"





1 SECOND FLR PLUMBING PLAN 1/4" = 1'-0"



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SHEET NAME:

PLUMBING

SECOND FLOOR

03/11/20

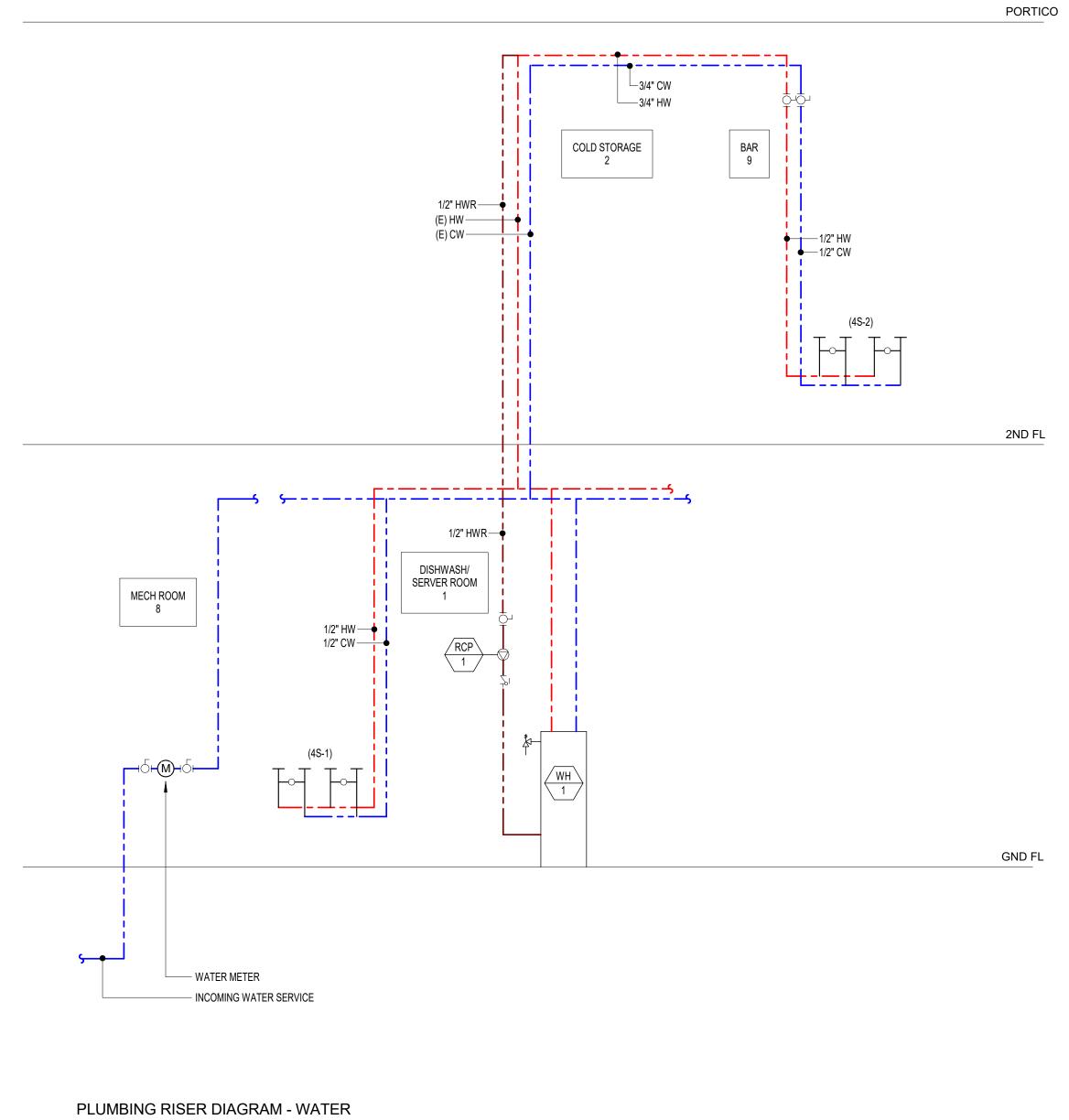
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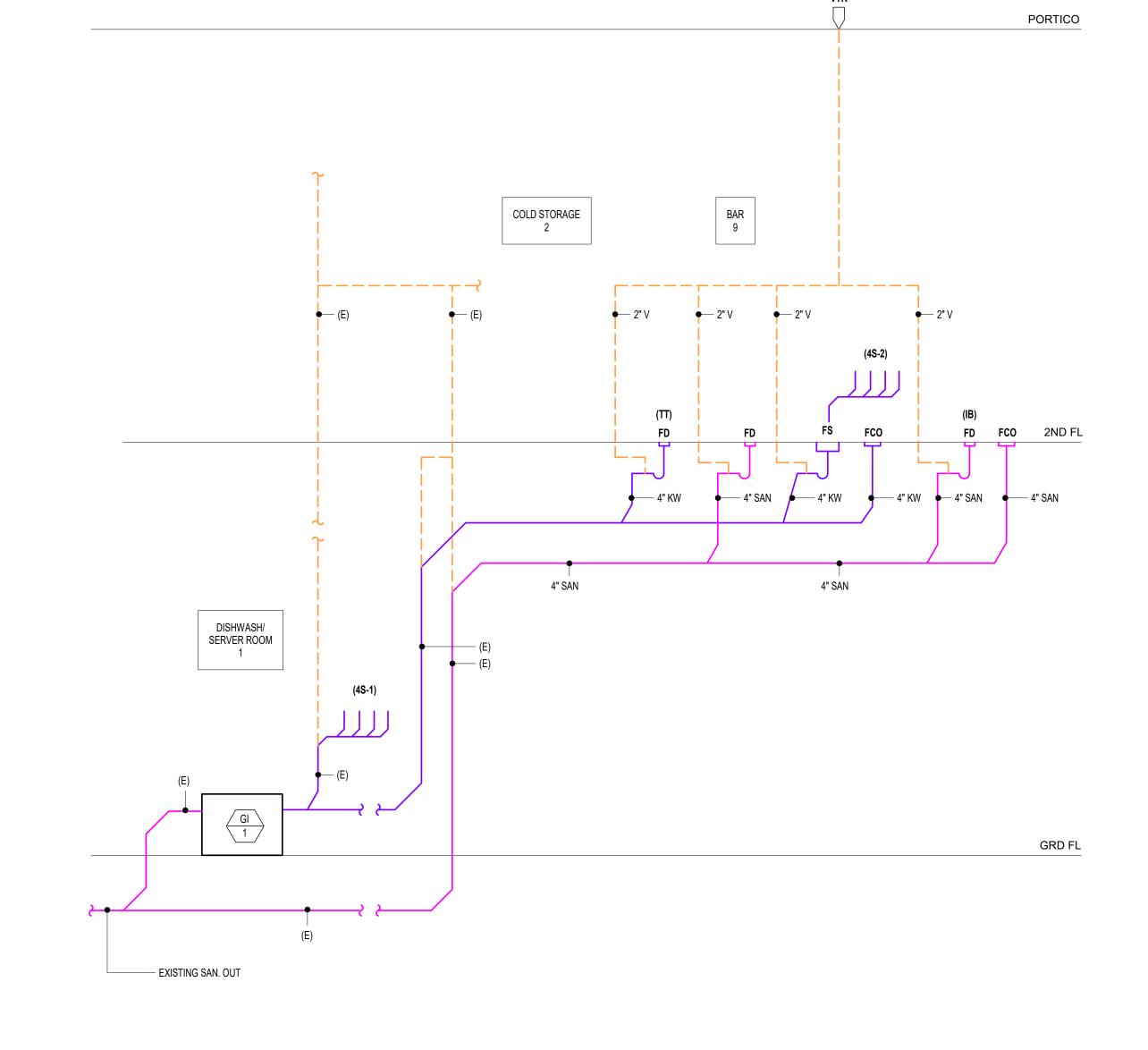
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PLUMBING RISER DIAGRAM - WATER
SUPPLY
1/8" = 1'-0"

	PLUMBING RISER DIAGRAM - WASTE,
(2)	VENT 1/8" = 1'-0"
4	1/8" = 1'-0"

PLUMBING SYMBOLS LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		
	VENT THROUGH ROOF	RCP 1	RECIRCULATION PUMP		
701	CHECK VALVE	WH	WATER HEATER		
151	BALL VALVE / ISOLATION VALVE				
\bigcirc	PUMP	GI 1	GREASE INTERCEPTOR		

PLUMBING SYSTEMS LEGEND				
SYMBOL	DESCRIPTION			
	HOT WATER			
	COLD WATER			
	VENT			
	KITCHEN WASTE			

PLUMBING TAG LEGEND								
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION			
FCO	FLOOR CLEAN OUT	(4S-2)	4-BASIN UNDERBAR SINK	(TT)	TAP TOWER			
FD	FLOOR DRAIN	(E)	EXISTING	(IB)	ICE BIN			
FS	FLOOR SINK	SAN	SANITARY	V	VENT			
(4S-1)	4-BASIN SINK	KW	KITCHEN WASTE	VTR	VENT THROUGH ROOF			

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PLUMBING RISER
DIAGRAMS

P 200