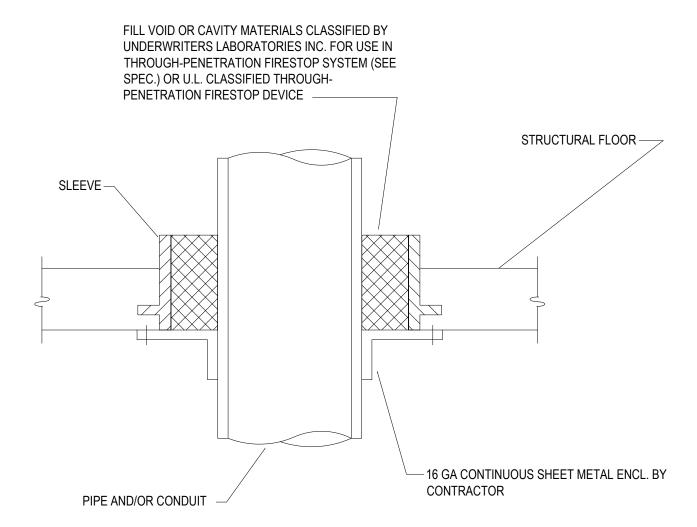


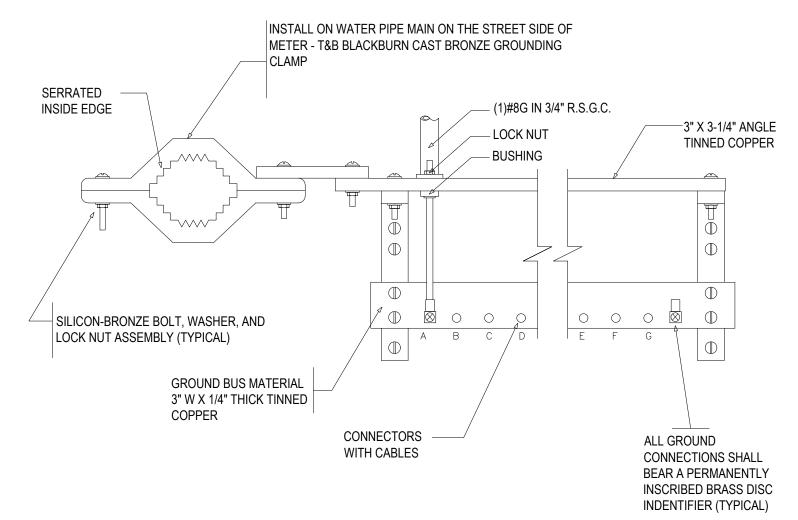
E-001 ELECTRICAL & LIGHTING LEGEND AND DETAILS E-200 ELECTRICAL POWER & LIGHTING PLAN E-300 POWER RISER DIAGRAMS & SCHEDULE E-301 ELECTRICAL LOAD CALCULATIONS & LIGHTING CONTROL SCHEDULE E-400 SPECIFICATIONS I

E-401

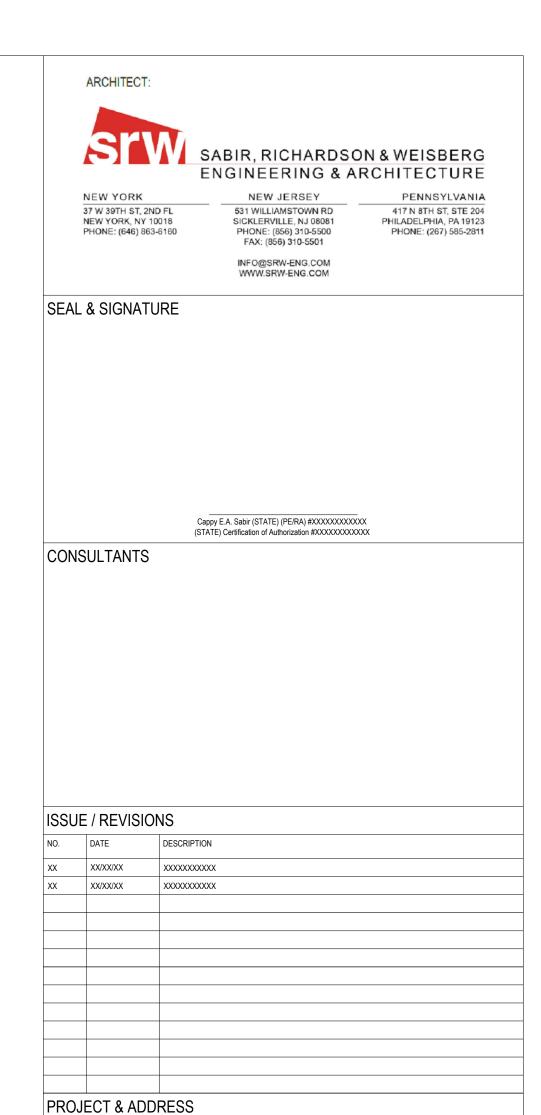
SPECIFICATIONS II



TYPICAL PIPE AND/OR CONDUIT FLOOR PENETRATION



GROUNDING
WATER PIPE GROUND CONNECTIONS AND GROUND BUS



NEW HODGES AVE 39-45 HODGES AVE LAWNSIDE NJ 08045

PLOT PLAN

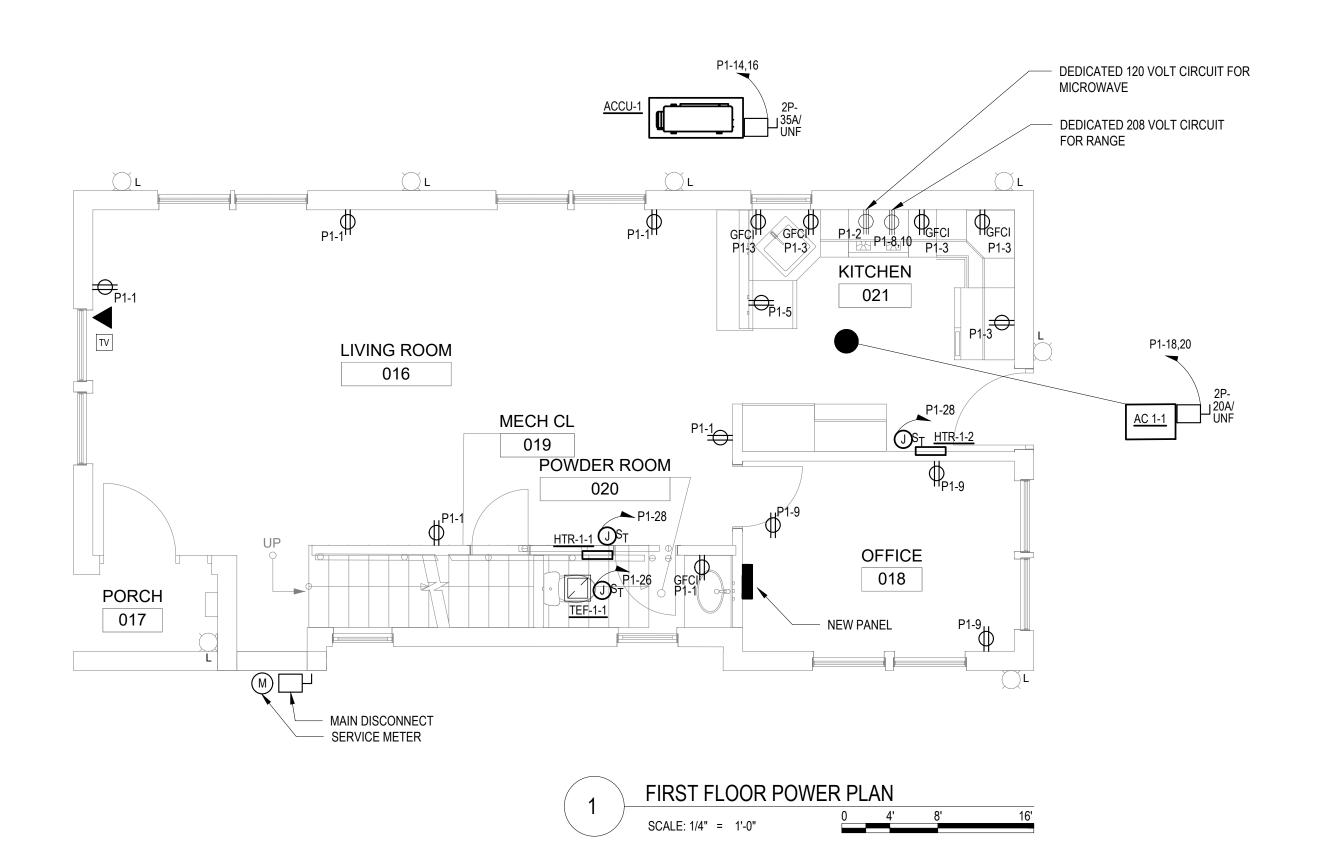
EQUIMAX DEVELOPMENT
COMPANY, LLC
170 WARWICK RD, N

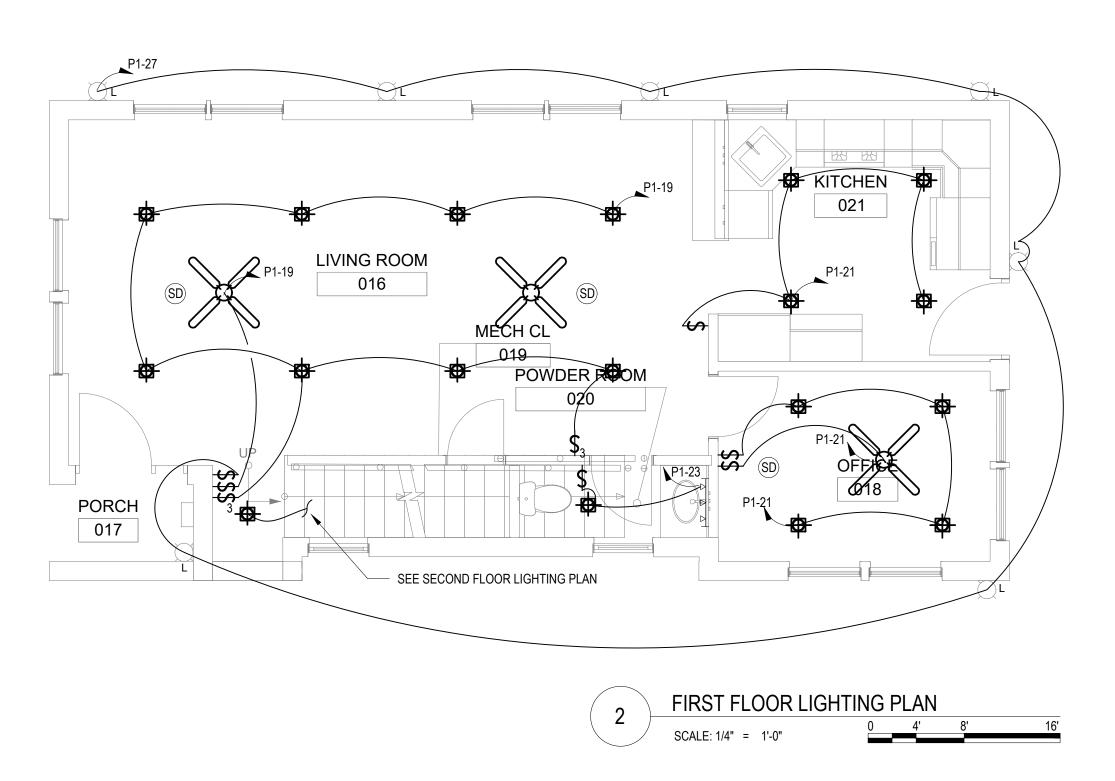
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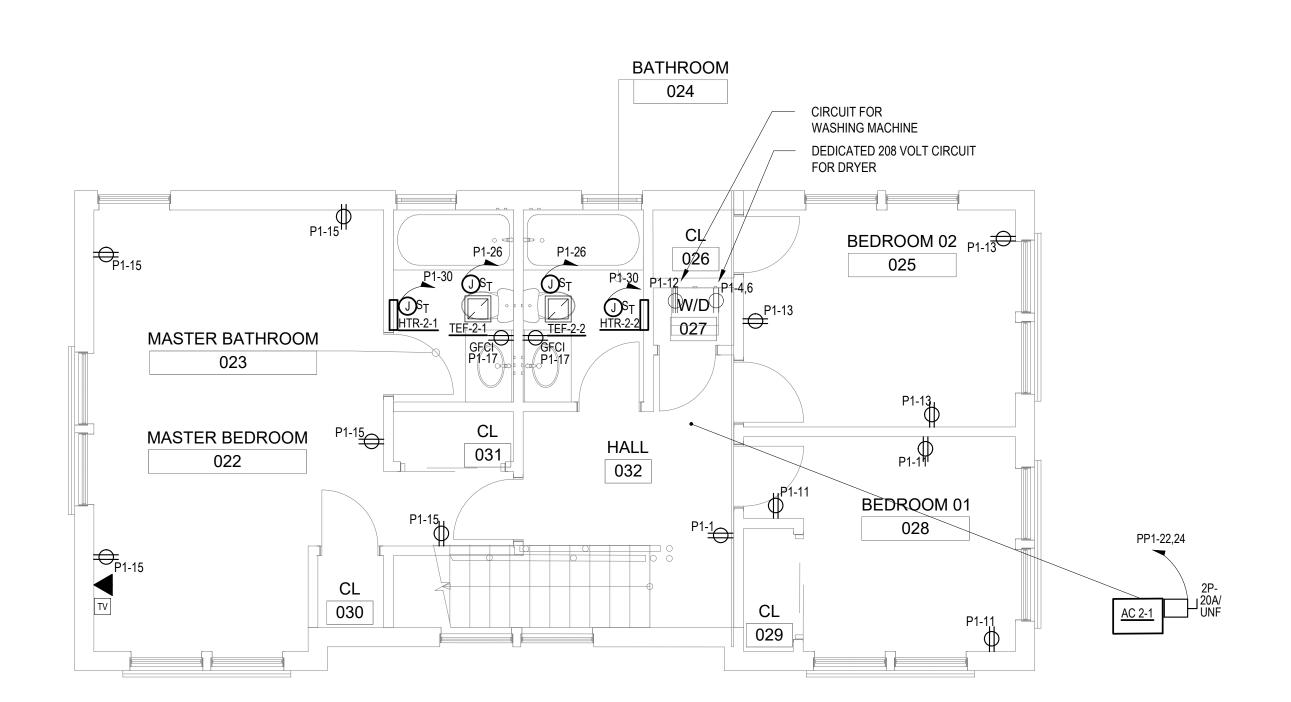
ELECTRICAL & LIGHTING LEGEND AND DETAILS

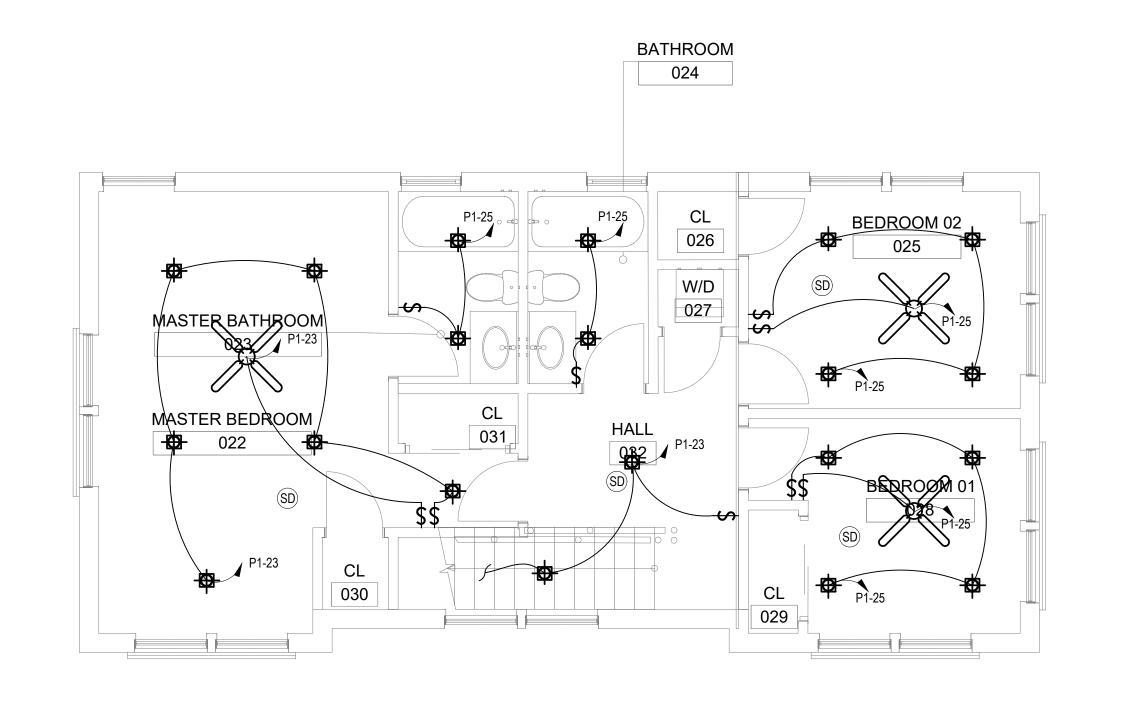
LAWNSIDE, NJ 08045

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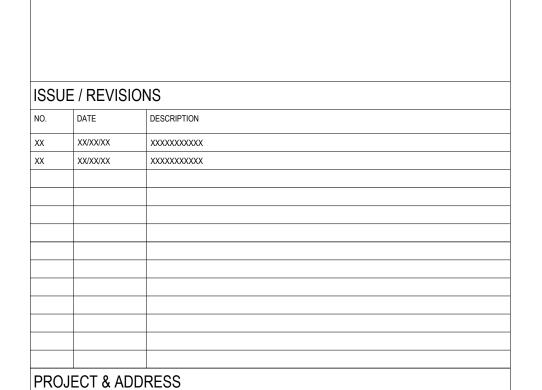


SECOND FLOOR LIGHTING PLAN

SCALE: 1/4" = 1'-0"

0 4' 8' 16'





NEW HODGES AVE 39-45 HODGES AVE LAWNSIDE NJ 08045

PLOT PLAN

CONSULTANTS

EQUIMAX DEVELOPMENT
COMPANY, LLC
170 WARWICK RD, N
LAWNSIDE, NJ 08045

DRAWING TITLE

FIRST FLOOR POWER & LIGHTING PLAN

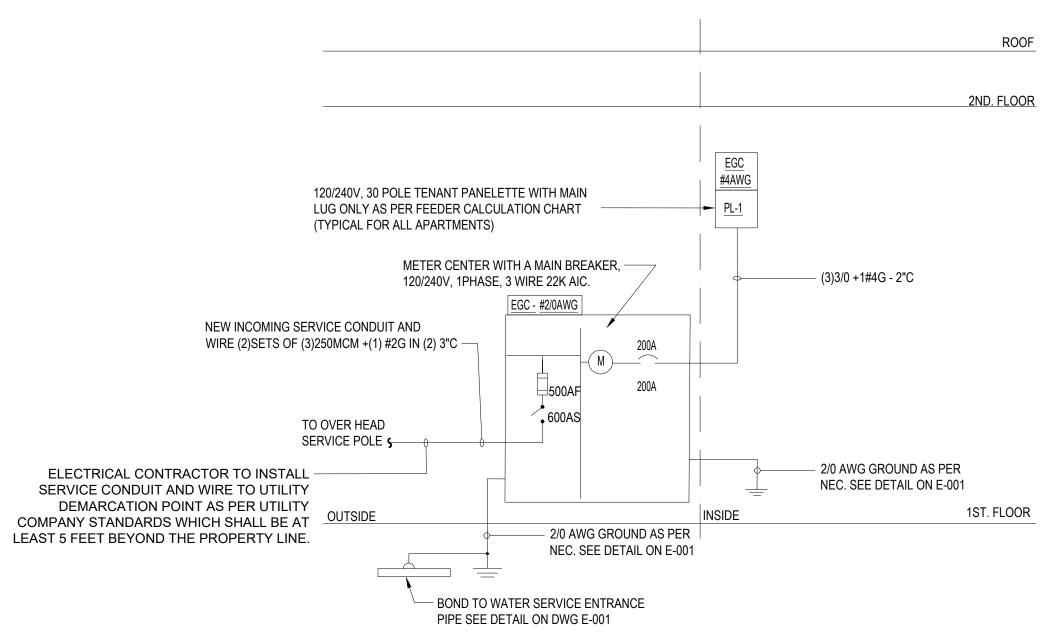
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TYPICAL FLOOR LIGHTING NOTES:

- 1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES, SWITCHES AND JUNCTION BOXES, SEE ARCHITECTURAL DRAWINGS
- 2. CIRCUITS ARE DESIGNATED BY THE NUMBER SHOWN ADJACENT TO EACH LIGHTING FIXTURE OR JUNCTION BOX. WIRING IS SHOWN ONLY UNDER SPECIAL CIRCUMSTANCES PROVIDE ALL CONDUIT, WIRE AND BOXES AS WELL AS CEILING OUTLETS AND WHIPS REQUIRED TO ENERGIZE LIGHTING FIXTURES AS SHOWN.
- 3. CIRCUIT NUMBERS ARE FOR GROUPING PURPOSES AND REFERENCE ONLY. FIELD CONDITIONS PREVAIL.
- 4. U.O.N. ALL BRANCH CIRCUIT WIRING SHALL BE RUN CONCEALED IN WALLS AND ABOVE CEILING IN AREAS WITH CEILING, AND EXPOSED IN EMT CONDUITS IN AREAS WITHOUT CEILING. FINAL CONNECTIONS TO LIGHTING FIXTURES SHALL BE MADE WITH WIRING HAVING 90°C RATED INSULATION. CONTRACTOR TO RUN CONDUIT IN CEILING SLAB WITHIN APARTMENT WHEN WITHOUT FINISHED CEILING.
- 5. WHERE EMERGENCY LIGHTING IS PROVIDED VIA INTEGRAL EMERGENCY PACKS, FURNISH AN UNSWITCHED HOT LEG TO THE EMERGENCY PACK. EMERGENCY PACK SHALL PRODUCE NOT LESS THAN 1400 LUMENS AND SHALL BE SIMILAR TO LIGHT ALARMS AM-10.
- COORDINATE LIGHTING FIXTURE TYPES AND SPECIFICATIONS WITH ARCHITECT. REFER TO LIGHTING FIXTURE SCHEDULE ON ARCHITECTURAL DRAWINGS.
- 7. FOR GENERAL NOTES AND SYMBOL LIST, SEE DRAWING E-001. FOR ADDITIONAL LIGHTING NOTES, SEE ARCHITECTURAL DRAWINGS.
- 8. MOUNTING LOCATION OF ALL LIGHT FIXTURES IN MECHANICAL, ELECTRICAL.
- 9. BOILER & EQUIPMENT ROOMS AND THROUGHOUT THE CELLAR LEVEL MUST BE COORDINATED WITH ALL TRADES AND ARCHITECT PRIOR TO INSTALLATION.
- 10. WHEN GANGING DIMMERS, INSTALL WITH ALL FINS INTACT. PROVIDE CUSTOM MULTI-GANG PLATES. CONSULT MANUFACTURER'S LITERATURE FOR SPACING AND BOX REQUIREMENTS. WHEN GANGING DIMMERS WITH SWITCHES, UTILIZE LUTRON 1PS MATCHING SWITCHES

TYPICAL FLOOR POWER NOTES:

- 1. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL POWER OUTLETS, SEE ARCHITECTURAL AND TELECOMMUNICATION CONSULTANT DRAWINGS.
- 2. CIRCUITS ARE DESIGNATED BY THE NUMBER SHOWN ADJACENT TO EACH RECEPTACLE. WIRING IS SHOWN ONLY UNDER SPECIAL CIRCUMSTANCES. PROVIDE CONDUITS, WIRES, METAL CLAD CABLE, AND BOXES REQUIRED TO ENERGIZE THE EQUIPMENT AS SHOWN.
- 3. ALL BRANCH WIRING SHALL BE RUN CONCEALED IN WALLS AND ABOVE CEILING, U.ON. ALL BRANCH WIRING IN EXPOSED AREAS SHALL BE IN EMT CONDUIT WITH DUAL SET SCREW TYPE FITTINGS. CONTRACTOR TO RUN CONDUIT IN CEILING/FLOOR SLAB WITHIN APARTMENT WHEN WITHOUT FINISHED CEILING.
- 4. 3/4" SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED. NO. 12 THHN SHALL BE MINIMUM WIRE SIZE AND SHALL BE USED FOR ALL BRANCH WIRING UNLESS OTHERWISE NOTED. ALL CIRCUITS TO LENGTH LONGER THAN 80FT SHALL UTILIZE NO. 10 THHN MINIMUM. ALL CIRCUITS TO LENGTH LONGER THAN 175 FT SHALL UTILIZE NO. 8 THHN MINIMUM. MOUNTING LOCATION OF POWER OUTLET WITHIN MECHANICAL
- 5. EQUIPMENT ROOMS AND THROUGHTOUT THE CELLAR LEVEL MUST BE COORDINATED WITH ALL TRADES AND ARCHITECT PRIOR TO INSTALLATION.



NEW POWER RISER DIAGRAM NOT TO SCALE

- 1. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH LOCAL UTILITY. PROVIDE ALL CONDUIT, WIRING, METERING, PULL BOXES, ETC. AS DIRECTED AND/OR AS REQUIRED FOR A COMPLETE INSTALLATION.
- 2. PROVIDE 2" SAND BACKFILL BELOW ALL UNDERGROUND CONDUITS.
- 3. PROVIDE 3" CLEAN BACKFILL (i.e. NO ROCKS OVER 1"D) ABOVE ALL UNDERGROUND CONDUITS IN ADDITION TO COVER OF CONDUIT BANK.
- 4. ALL UNDERGROUND CONDUITS MUST BE INSTALLED MINIMUM 30" BENEATH FINISHED GRADE PROVIDE 3" ONCRETE COVER WHERE CONDUITS ARE INSTALLED BENEATH ROADWAYS AND/OR DRIVEWAY. CONCRETE TO EXTEND 3" ON SIDES OF CONDUITS AND 12" AT BOTH END BEYOND PAVED SURFACE.
- 5. PROVIDE 2" MINIMUM SEPARATION BETWEEN ADJACENT CONDUITS UNLESS OTHERWISE
- 6. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT PANEL BOARD AND EQUIPMENT DIMENSIONS WITH EQUIPMENT TO BE INSTALLED PRIOR TO INSTALLATION OF CONDUITS.

ELECTRICAL SERVICE NOTES

- ELECTRICAL CONTRACTOR SHALL MAKE APPLICATION TO THE UTILITY COMPANY
 FOR THE NEW ELECTRICAL SERVICE. REFER TO LOAD CALCULATIONS PROVIDED
 ON DRAWING E-301.
- 2. ALL DEVICES AND EQUIPMENT SHALL BE RATED FOR THE AVAILABLE SHORT CIRCUIT CURRENT. ELECTRICAL CONTRACTOR REQUEST AND OBTAIN SHORT CIRCUIT AVAILABILITY FROM THE UTILITY COMPANY.
- 3. WHERE TAPS ARE INDICATED, FOLLOW NEC TAP RULE REQUIREMENTS. IF FINAL EQUIPMENT LOCATIONS FALL OUTSIDE OF THE TAP LIMITATIONS, FULL SIZE FEEDERS SHALL BE RUN TO THE DOWNSTREAM PROTECTIVE DEVICES.
- 4. ELECTRICAL CONTRACTOR SHALL INSTALL SYSTEM GROUND AND EQUIPMENT GROUND AS PER DETAILS ON DRAWING E-001. EQUIPMENT GROUNDING CONDUCTORS SHALL BE COPPER ONLY, SIZED AS INDICATED ON THE RISER DIAGRAM OR AS PER NEC.

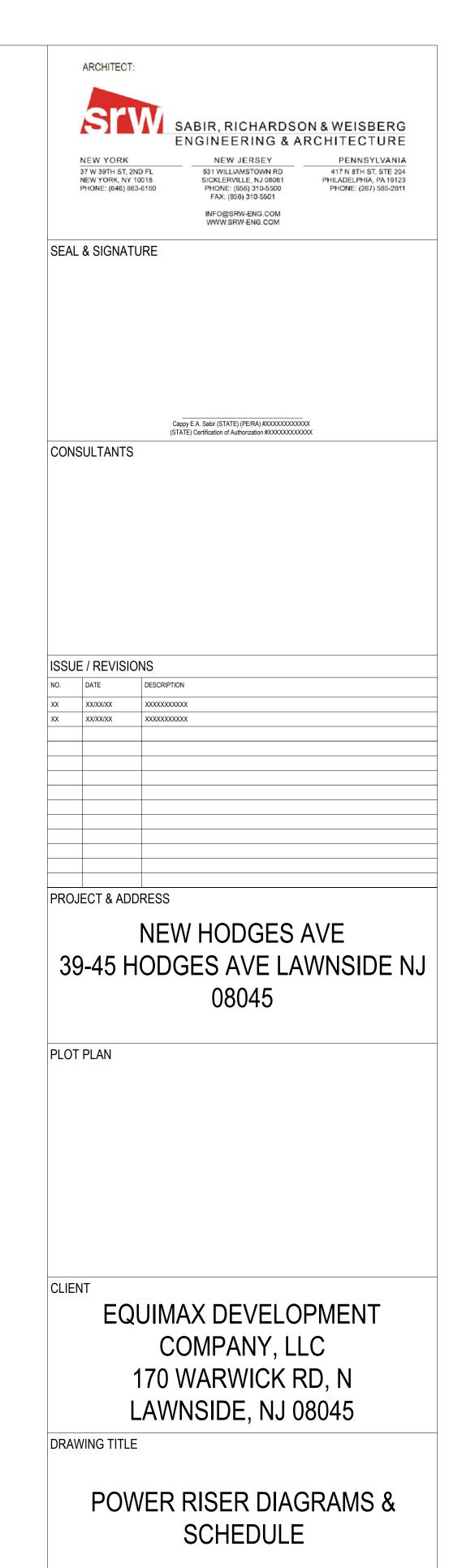
LIGHTING CONTROL SCHEDULE		
CONTROL DEVICE	DESCRIPTION	
	LIVING ROOM	
	OFFICE	
	BEDROOMS	
	BATHROOMS	
LIGHT SWITCH	KITCHEN	
	MECHANICAL CLOSET	
	EXTERIOR LIGHTS	

ELEC	CTRICA	L PANEL: P1												VOLTS: 120/208 PHASE: 3 10,000 AIC					
		Branch Circuit												Branch Circuit					
Ciro Brea		Load	Co	nductor	Co	onduit			MCB: 200A			Circuit Breaker		Load	Co	Conductor		onduit	
Pole #	Trip AMP	Designation	No.	AWG MCM	No.	Size	W	,	A B 	C	Pole	- 1	rip MP	Designation	No.	AWG MCM	No.	Size	W
1	20	LIVING ROOM	2	#12	1	3/4"	1260		<u> </u>	-		2	20	MICROWAVE	2	#12	1	3/4"	1920
3	20	KITCHEN	2	#12	1	3/4"	1080	7	-	- -^-	- 4	2P		CLOTHES DRYER	3	#12	1	3/4"	2800
5	20	DISHWASHER	2	#12	1	3/4"	1200	$\overline{}$	-		- 6	7/	20	CLOTHES DRYER	°	#12	'	3/4	2000
7	20	OFFICE	2	#12	1	3/4"	540	-	•— -		- 8	2P	/ /	Tauras		110		4/411	7000
9	20	OFFICE	2	#12	1	3/4"	540	\sim	-		- 10	\mathbb{I}	40	RANGE	3	#8	1	1/4"	7800
11	20	BEDROOM 01	2	#12	1	3/4"	540	\sim	-	$\overline{}$	- 12	2	20	WASHING MACHINE	2	#12	1	3/4"	1200
13	20	BEDROOM 02	2	#12	1	3/4"	540	-	•— -		- 14	2P	· /						
15	20	BEDROOM 03	2	#12	1	3/4"	900	$\overline{}$	-		16	7/	35	ACCU-1	3	#12		3/4"C	7280
17	20	BATHROOM 023 & 024	2	#12	1	3/4"	360	\triangle	<u> </u>	<u> </u>		2P	· /						
19	20	LIGHTING	2	#12	1	3/4"	200	\triangle	•— -			7/	20	AC-1-1	3	#12	1	3/4"C	3120
21	20	LIGHTING	2	#12	1	3/4"	200	\sim	-			2P		1004	٦,	"40	,	0/4110	0400
23	20	LIGHTING	2	#12	1	3/4"	200	\sim	- -	1	- 24	7/	20	AC-2-1	3	#12	1	3/4"C	3120
25	20	LIGHTING	2	#12	1	3/4"	200	-	 		26	2	20	TEF 1-1,1-2, 2-2	2	#12	1	3/4"	690
27	20	LIGHTING	2	#12	1	3/4"	200	\sim	-		_ 28	2	20	HTR 1-1, 1-2	2	#12	1	3/4"	690
29	20	HOT WATER HEATER	2	#12	1	3/4"	500	\sim	 -	\leftarrow		2	20	HTR 2-1, 2-2	2	#12	1	3/4"	690

ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKER AS INDICATED IN SCHEDULES.
 ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL BRANCH WIRING FOR NEW CIRCUITS AS

REQUIRED

TOTAL LOAD: 15 KW - 42 AMPS



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PROJECT NO.

2023-225

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11/13/2024

E-300 <#LayNoInSubset> OF <38>

GENERAL SPECIFICATIONS GENERAL SPECIFICATIONS (CONTINUED) BID / PROPOSAL INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHERE THESE GENERAL SPECIFICATIONS ARE TO BE READ AND ADHERED TO BY THE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN ELECTRCAL CONTRACTOR. ITEMS ARE LOOSELY CATEGORIZED BY TRADE, BUT THIS DOES NOT LIMIT THE RESPONSIBILITY OF THE CONTRACTOR TO ANY SINGLE FROM BUILDING OWNER AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE CATEGORY. MOVED THROUGH ALL AREAS. 2. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY 2. PROTECT ALL EQUIPMENT FROM THE WEATHER AND DAMAGE AT ALL TIMES DURING PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF SHIPMENT, STORAGE AND CONSTRUCTION. THESE SPECIFICATIONS. THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM PROPER FIRE PROTECTION MEASURES, SATISFACTORY TO THE LOCAL FIRE THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIAL DEPARTMENT, SHALL BE TAKEN WHEN WELDING OR CUTTING WITH TORCHES OR WHICH VIOLATES ANY OF THE ABOVE LAWS AND REGULATIONS. ELECTRIC ARC. CONTRACTOR TO PROVIDE OPEN FLAME PERMIT IF REQUIRED. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE 2. ALL WORK SHALL BE DONE IN A NEAT WORKMANLIKE MANNER, LEFT CLEAN AND FREE CORRECTED BY THE CONTRACTOR. FROM DEFECTS, AND COMPLETELY OPERABLE. THE CONTRACTOR SHALL PROVIDE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS ALL EQUIPMENT AS SCHEDULED ON THE DRAWINGS. AND WORK. DRAWINGS DO NOT NECESSARILY INDICATE THE ACTUAL LOCATION OR 3. ALL WORK SHALL BE CAREFULLY COORDINATED WITH ALL TRADES INVOLVED, AND ROUTING OF EQUIPMENT, CONDUIT, PIPING, RACEWAY OR DUCTWORK. DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS CONDITIONS ALLOW TO COMPLETE THE INTENT THE CONTRACTOR SHALL PROVIDE PROPER CONNECTIONS, FITTINGS, VALVES, OF THE CONTRACT. MAINTAIN HEADROOM AND SPACE CONDITIONS. PIPING, ETC. FOR ALL EQUIPMENT FURNISHED BY THE OWNER OR THE TRADES INVOLVED IN THIS CONTRACT. 4. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE BASED ON THE INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN DIRECTED, AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH HOWEVER, THE CONTRACTORS SHALL INSTALL WORK DURING OVERTIME HOURS AND AT THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT "PREMIUM" PORTION OF THOSE WAGES PAID. COORDINATE WITH OTHER TRADES AND OWNER FOR EQUIPMENT LOCATIONS AND 5. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL CLEARANCES REQUIRED FOR EQUIPMENT. CONTRACTOR TO COORDINATE AND EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC, WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT MODIFY LAYOUT ACCORDINGLY. THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. **CUTTING AND PATCHING** 6. "FURNISH AND INSTALL" OR "PROVIDE" MEANS TO SUPPLY, ERECT, INSTALL AND 1. THE ELECTRICAL CONTRACTORS SHALL PERFORM ALL CUTTING AND PATCHING AS REQUIRED FOR THEIR RESPECTIVE WORK, EXCEPT THAT STRUCTURALLY FRAMED CONNECT UP TO COMPLETE FOR READINESS FOR REGULAR OPERATION, THE OPENINGS SHALL BE CUT AND FRAMED BY THE GENERAL CONTRACTOR. ALL HOLES IN PARTICULAR WORK REFERRED TO. MASONRY FLOORS AND WALLS SHALL BE CORE DRILLED. PATCH AND PAINT TO 7. ALL WORK SHALL BE PERFORMED BY AN ELECTRICIAN LICENSED IN THE JURISDICTION MATCH ADJACENT SURFACES. WHERE THE WORK IS LOCATED. ALL PENETRATIONS OF FLOORS (WHETHER OR NOT FIRE RESISTANCE RATED) AND ALL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH A CONTRACT / ADMINISTRATIVE THROUGH PENETRATION PROTECTION SYSTEM (FIRESTOPPING). EACH THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION AIA DOCUMENT THROUGH-PENETRATION PROTECTION SYSTEM SHALL BE TESTED IN ACCORDANCE A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE ARE PART OF WITH ASTM E814 AND BE LISTED FOR THE TYPE OF FLOOR OR WALL ASSEMBLY PENETRATED AND THE TYPE OF PROTECTION SYSTEM. THIS CONTRACT. ALL APPLICABLE ITEMS SHALL BEAR THE UNDERWRITERS LABORATORIES (UL) LABEL. AND/OR BE FACTORY MUTUAL APPROVED. ALL SUPPORT SYSTEMS (SUPPORTS, HANGERS, ANCHORS, GUIDES, BRACING, FASTENERS, WELDS, ETC.) FOR EQUIPMENT AND SYSTEMS INSTALLED OR REVISED AS 3. ALL MATERIAL, EQUIPMENT AND WORKMANSHIP SHALL BE NEW, U.O.N. AND SHALL BE PART OF THIS CONTRACT SHALL BE DESIGNED, SELECTED AND INSTALLED BY THE IN ACCORDANCE WITH BUILDING STANDARDS. CONTRACTOR TO RESIST ALL SEISMIC, WIND AND GRAVITY LOADS. INSURANCE: IN ACCORDANCE WITH OWNER REQUIREMENT AND SHALL INCLUDE A A. THE CODES LISTED UNDER THE APPLICABLE CODES AND REFERENCE SECTION HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER. OF THESE DOCUMENTS HAVE SPECIFIC REQUIREMENTS CONCERNING THE 5. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, TRANSPORTATION, FACILITIES, APPLICATION OF THESE LOADS AS WELL AS OTHER DESIGN REQUIREMENTS. UNDER CERTAIN CONDITIONS, THE APPLICABLE CODES REQUIRE THESE LOADS, OR A MANUFACTURERS NAMES GIVEN FOR EQUIPMENT ARE USED FOR THE BASIS OF COMBINATION OF THESE LOADS, BE CONSIDERED AS "COINCIDENTAL". THE SELECTION, NOT WITH INTENT TO LIMIT COMPETITION. EQUIVALENT EQUIPMENT OF CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CONFIRMING THAT THE OTHER MANUFACTURERS WILL BE CONSIDERED BASED ON SUBSTITUTION SECTION COMPONENT OF THE BUILDING STRUCTURE WHERE THESE SUPPORT SYSTEMS ARE OF SPECIFICATION. NO SUBSTITUTIONS ARE ALLOWED WHERE NEW EQUIPMENT ATTACHED IS ABLE TO RESIST THE DESIGN LOADS TRANSFERRED TO THIS BUILDING MUST MATCH EXISTING. CONTRACTOR SHALL PROVIDE ALL NECESSARY MISCELLANEOUS STEEL FOR THE **EXISTING CONDITIONS** SUPPORT OF ALL EQUIPMENT, PIPING, CONDUIT AND DUCTWORK SUSPENDED FROM REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK MAY BE NECESSARY FOR SLAB, STEEL, WALL, TRUSSWORK, AND ROOF OPENINGS. THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTORS SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES AND CHARGES IN MAKING UP THE WORK PROPOSAL. THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED 2. CONNECTIONS TO EXISTING WORK: INSTALL NEW WORK AND CONNECT TO EXISTING HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS OF SERVICE SHALL BE PERFORMED AT NO ADDITIONAL CHARGES. AT THE REQUIRED CERTIFICATES OF INSPECTIONS AND APPROVAL. TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES AND ONLY WITH WRITTEN CONSENT OF OWNER. ALARM AND EMERGENCY SYSTEMS SHALL PROVIDE THE OWNER WITH AN EQUIPMENT AND MAINTENANCE BINDER INCLUDING EACH SYSTEM MANUFACTURER'S INSTRUCTIONS, MAINTENANCE REQUIREMENTS, NOT BE INTERRUPTED. GUARANTEES AND WARRANTEE INFORMATION. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. PROMPTLY AND ASSUME RESPONSIBILITY FOR: CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING A. ALL EXPENSES INCLUDED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH MAINTENANCE OF WIRING CONTINUITY AS REQUIRED. DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OR ACTUAL USE OF EQUIPMENT OR 4. WORK WILL BE CONDUCTED IN A LIVE WORKING ENVIRONMENT. PROVIDE TWO WEEK OCCUPANCY OF SPACES BY OWNER INCLUDED UNDER THE VARIOUS PARTS OF LOOK AHEAD SCHEDULE TO OWNER THROUGHOUT THE PROJECT. COORDINATE AND THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE COORDINATED OBTAIN APPROVAL FROM OWNER FOR ANY WORK THAT WILL AFFECT LIVE PORTIONS OF THE WORKING ENVIRONMENT PRIOR TO STARTING WORK. WITH THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE **DEMOLITION** CONTRACTOR WILL ASSUME RESPONSIBLY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS. DISCONNECT, REMOVE AND / OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW WORK. REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR. 2. THE CONTRACTOR SHALL REMOVE ANY AND ALL OBSOLETE, UNUSED OR UNNECESSARY ITEMS AS CALLED OUT ON DRAWINGS OR HEREIN SPECIFIED. ANY SUCH ITEMS INTENDED FOR SUCH REMOVAL SHALL BE COMPLETELY VERIFIED AND APPROVED BY THE OWNER AND ENGINEER. **CONSTRUCTION ADMINISTRATION** 3. ANY EXISTING EQUIPMENT THAT MAY BE RELOCATED TO ACCOMMODATE NEW WORK MAY BE ACCOMPLISHED BY THE CONTRACTOR, PROVIDED IT IS DONE SO AT NO

THIS SECTION CONTAINS REQUIREMENTS FOR CONSTRUCTION ADMINISTRATION OF

MEP/FP WORK. THESE REQUIREMENTS ARE IN ADDITION TO ANY REQUIREMENTS

LISTED ELSEWHERE IN THE CONTRACT DOCUMENTS. WHERE CONFLICTS EXIST

BETWEEN THIS SECTION AND OTHER SECTIONS, THE MORE STRINGENT

1. REQUESTS FOR INFORMATION (RFI) ARE QUESTIONS POSED BY THE CONTRACTOR

REQUIREMENT SHALL APPLY

REQUEST FOR INFORMATION

ADDITIONAL EXPENSE TO THE OWNER AND WRITTEN PERMISSION HAS BEEN

4. ALL ITEMS REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER, BUT SHALL BE

ANY ITEM INDICATED FOR DEMOLITION SHALL BE REMOVED, INCLUSIVE OF ANY

RACEWAY, BOXES, WIRING, ETC., BACK TO ITS ORIGINATING SOURCE, IF ENTIRE

CIRCUITS ARE REMOVED, PANEL SCHEDULES SHALL BE UPDATED AND BREAKERS

DISPOSED OF, IF SO DIRECTED BY THE OWNER AND ENGINEER. ITEMS SO DIRECTED

SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTOR AT HIS EXPENSE.

OBTAINED FROM THE OWNER AND ENGINEER.

PLACED IN "OFF" POSITION.

DELIVERY / HANDLING

INTENDED TO RESOLVE VAGUENESS AND CONFLICTS DURING CONSTRUCTION.

- 2. TO SUBMIT A RFI, THE CONTRACTOR MUST FILL OUT A REQUEST FOR INFORMATION FORM. ONLY A WRITTEN RFI FORM WILL BE ACKNOWLEDGED.
- 3. PRIOR TO SUBMITTING A RFI, THE CONTRACTOR MUST THOROUGHLY REVIEW THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS AND FORWARD THE RFI ONLY IF THE ISSUE IN QUESTION CANNOT BE RESOLVED. IF A RFI QUESTIONS A CLEARLY NOTED ITEM OR STANDARD CONSTRUCTION METHOD WHICH SHOULD BE KNOWN BY THE CONTRACTOR, THE ENGINEER MAY BACK CHARGE THE CONTRACTOR FOR TIME SPENT RESPONDING TO THE RFI.

SUBSTITUTIONS

GENERAL SPECIFICATIONS (CONTINUED)

- 1. SUBSTITUTIONS FOR SPECIFIED EQUIPMENT MUST INCLUDE A DETAILED COMPARISON CHECKLIST IDENTIFYING ALL PERTINENT SIMILARITIES AND DIFFERENCES BETWEEN THE TWO ITEMS. SUBSTITUTED ITEMS WITHOUT A COMPARISON CHECKLIST WILL NOT BE CONSIDERED.
- A. WHERE SUBSTITUTED ITEMS AFFECT OTHER TRADES, THIS CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE INSTALLATION AS REQUIRED TO ACCOMMODATE THE SUBSTITUTION. THIS INCLUDES, BUT IS NOT LIMITED TO, CHANGES IN ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS. THIS CONTRACTOR WILL PAY FOR ALL ASSOCIATED COSTS FOR FIELD CHANGES AND PROFESSIONAL SERVICES.
- 2. INCOMPLETE SUBMITTALS WILL BE RETURNED REJECTED.

CLIDMITTALO

1. SCHEDULES AND LISTS

A. SCHEDULE OF VALUES

- 1) PRIOR TO INITIATING ANY WORK, THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF VALUES ON AN AIA G-703 CONTINUATION SHEET OUTLINING MATERIAL AND LABOR COSTS FOR EACH ITEM. THIS SCHEDULE OF VALUES SHALL BE SUBMITTED AS THE FIRST SHOP DRAWING.
- 2) INCLUDE IN THE SCHEDULE OF VALUES A LINE ITEM FOR RESOLVING PUNCHLIST ISSUES EQUAL TO 5% OF THE TOTAL CONTRACT VALUE.
- 3) NO PAYMENT APPLICATIONS WILL BE PROCESSED UNTIL THE SCHEDULE OF VALUES FORM HAS BEEN APPROVED BY THE ENGINEER.

B. EQUIPMENT MANUFACTURER LIST

1) WITHIN TEN (10) BUSINESS DAYS OF THE CONTRACT AWARD DATE, THE CONTRACTOR SHALL SUBMIT A LIST OF EQUIPMENT MANUFACTURERS, FOR THE ENGINEER'S REVIEW AND APPROVAL, THAT HE INTENDS TO USE ON THIS PROJECT.

C. SHOP DRAWING SUBMISSION SCHEDULE

- 1) PRIOR TO SUBMITTING ANY SHOP DRAWINGS, THE CONTRACTOR SHALL ISSUE A SHOP DRAWING SUBMISSION SCHEDULE. THE PURPOSE OF THIS SCHEDULE IS TO IDENTIFY WHICH ITEMS REQUIRE SHOP DRAWINGS AND WHEN THESE SHOP DRAWINGS WILL BE SUBMITTED TO THE ENGINEER.
- a. BY AGREEING TO THIS SCHEDULE AT THE BEGINNING OF THE PROJECT, SHOP DRAWINGS WILL BE REVIEWED IN A TIMELY FASHION AND LONG LEAD ITEMS CAN BE PRIORITIZED AND REVIEWED FIRST.
- 2) THE CONTRACTOR SHALL LIST ALL THE ITEMS THAT REQUIRE SUBMITTALS PER THE CONTRACT DOCUMENTS AND SPECIFICATIONS. THE CONTRACTOR SHALL FILL OUT THE SUBMITTAL DATE COLUMN FOR EACH ITEM AND RETURN THE COMPLETED FORM TO THE ENGINEER FOR REVIEW. THE CONTRACTOR MAY USE A DIFFERENT FORM OF HIS CHOOSING PROVIDED THE REQUIRED INFORMATION IS PROVIDED.
- 3) NO SHOP DRAWINGS WILL BE REVIEWED UNTIL THE SHOP DRAWING SUBMISSION SCHEDULE IS APPROVED BY THE ENGINEER.

D. SERVICE INTERRUPTION SCHEDULE

- 1) WITHIN TEN (10) BUSINESS DAYS OF THE CONTRACT AWARD DATE, THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF SHUTDOWNS OF EQUIPMENT AND/OR SYSTEMS FOR OWNER AND ENGINEER REVIEW.
- 2) THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER IN WRITING AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO EACH EQUIPMENT AND/OR SYSTEM SHUTDOWN.

2. SHOP DRAWINGS

- A. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT, CONTRACTOR SHALL PROVIDE COMPLETE SETS OF COORDINATED SHOP DRAWINGS OF ALL NEW AND EXISTING EQUIPMENT, INDICATING CAPACITY, DIMENSIONS AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.
- B. SHOP DRAWINGS WILL NOT BE REVIEWED UNTIL THE EQUIPMENT
 MANUFACTURER LIST AND SHOP DRAWING SUBMISSION SCHEDULE HAVE BEEN
 SUBMITTED TO, AND APPROVED BY, THE ENGINEER.
- C. SHOP DRAWINGS MUST INCLUDE A COMPLETED COPY OF THE SHOP DRAWING SUBMITTAL FORM.
- 1) THE CONTRACTOR MUST REVIEW AND STAMP ALL SHOP DRAWINGS PRIOR TO SUBMISSION. SPACE HAS BEEN PROVIDED FOR THE CONTRACTOR'S APPROVAL STAMP ON THE SHOP DRAWING SUBMITTAL FORM. SUBMITTALS WITHOUT THE CONTRACTOR'S APPROVAL STAMP WILL BE RETURNED UNCHECKED.
- D. THE CONTRACTOR SHALL PROVIDE A MAXIMUM OF SIX (6) COPIES OF SUBMITTALS TO THE ENGINEER FOR REVIEW. ADDITIONAL SHOP DRAWINGS MAY BE MARKED-UP AND PROCESSED FOR AN ADDITIONAL FEE TO THE CONTRACTOR
 - 1) SUBMITTED ITEMS SHALL BE CLEARLY IDENTIFIED ON ALL COPIES OF THE SHOP DRAWINGS. THE ENGINEER WILL RETURN ANY SHOP DRAWINGS THAT ARE NOT CLEARLY MARKED.
- E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE EVERY ATTEMPT TO ENSURE THOROUGHNESS AND ACCURACY OF HIS SUBMITTALS. IF SHOP DRAWINGS ARE NOT APPROVED FOLLOWING A MAXIMUM OF TWO (2) REVIEWS, THE CONTRACTOR WILL BE BACKCHARGED FOR THE ENGINEER'S EFFORT.
 F. SUBMISSIONS:

1) SUBMISSIONS 11" X 17" OR SMALLER: IF THE SUBMISSION IS A CATALOG CUT, THEN CONTRACTOR SHALL SUBMIT FOUR COPIES. THE ARCHITECT WILL FORWARD THREE COPIES TO THE ENGINEER. ALL CATALOG CUTS SHALL BE COMPLETE.

- 2) SUBMISSIONS LARGER THAN 11" X 17": SUBMIT TWO PRINTS AND ONE PAPER SEPIA TO THE ARCHITECT, THE ARCHITECT WILL FORWARD ONE PRINT AND THE PAPER SEPIA TO THE ENGINEER.
- 3) ALL SUBMISSIONS SHALL BE CLEARLY LEGIBLE. IF MULTIPLE PRODUCTS ARE ON THE SAME CATALOG CUT, THE PRODUCT THAT WILL BE UTILIZED ON THIS PROJECT SHALL BE CLEARLY INDICATED.

3. AS - BUILT DRAWINGS AND EQUIPMENT OPERATION INSTRUCTIONS

- A. REPRODUCIBLE "AS-BUILT" DRAWINGS SHALL BE PROVIDED INDICATING THE INSTALLED CONDITIONS OF THE WORK. "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF THE INSTALLATION.
- B. UPON COMPLETION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL FURNISH TYPE-WRITTEN UPDATED PANEL SCHEDULES FOR ANY PANEL IN WHICH WORK WAS DONE. PROVIDE A HARD AND SOFT COPY TO THE OWNER.

4. OPERATION AND MAINTENANCE MANUALS

GENERAL SPECIFICATIONS (CONTINUED)

A. FURNISH THREE COPIES OF COMPLETE OPERATIONS AND MAINTENANCE MANUALS TO THE ARCHITECT-ENGINEER, FOR APPROVAL AND FOR THE OWNER, ON ALL EQUIPMENT AND SYSTEMS. THE MANUALS SHALL BE BOUND IN HARDBACK, THREE RING LOOSE-LEAF BINDERS. THE FOLLOWING SHALL BE

1) NON-TECHNICAL CONTENT

- a. TITLE SHEET WITH JOB NAME, AND THE NAMES, ADDRESSES AND PHONE NUMBERS OF THE CONTRACTOR, SUBCONTRACTOR, CONTROL SUBCONTRACTOR, RELATED CONTRACTORS AND MATERIAL AND EQUIPMENT SUPPLIERS.
- b. INCLUDE A COMPREHENSIVE TABLE OF CONTENTS FOR ALL SECTIONS.
- c. GUARANTEES, INCLUDING EXTENDED GUARANTEES (WHERE APPLICABLE). ALL MATERIALS SHALL BE NEW AND ALL WORK AND MATERIALS SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE BY THE OWNER.

2) TECHNICAL CONTENT

- a. A COPY OF ACKNOWLEDGMENT OF INSTRUCTION TO THE OWNERS OPERATING PERSONNEL IN THE OPERATION OF ALL MECHANICAL EQUIPMENT AND SYSTEMS, SIGNED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE.
- b. TYPEWRITTEN OPERATING INSTRUCTIONS FOR THE OWNER'S PERSONNEL DESCRIBING HOW TO OPERATE (START, STOP, AND PERFORM NORMAL AND EMERGENCY OPERATING PROCEDURES) EACH PIECE OF EQUIPMENT; HOW TO SET THE TEMPERATURE CONTROL SYSTEM FOR NORMAL OPERATION AND NORMAL RESTARTING PROCEDURES, CAUTION AND WARNING NOTICES.
- APPROVED SHOP DRAWINGS, PRODUCT DATA AND PARTS AND MAINTENANCE BOOKLET FOR EACH ITEM OF MATERIAL AND EQUIPMENT FURNISHED UNDER MEP/FP SCOPE OF WORK.
- d. RECORD DRAWINGS OF ALL SYSTEMS INCLUDED IN THE PROJECT.
- e. TEST AND BALANCE REPORT.
- f. COPIES OF CERTIFICATES OF INSPECTION.
- B. DELIVER THE MANUALS TO THE OWNER PRIOR TO SUBMITTING APPLICATION FOR FINAL PAYMENT.

5. LETTERS

A. SUBSTANTIAL COMPLETION LETTER

- 1) THE PURPOSE OF THIS LETTER IS TO INFORM THE ENGINEER THAT THE CONTRACTOR HAS REACHED SUBSTANTIAL COMPLETION.
- 2) UPON SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL CREATE A SUBSTANTIAL COMPLETION LETTER ON COMPANY LETTERHEAD, COMPLETE THE LETTER AND SEND IT TO THE ENGINEER.
- 3) THIS LETTER SHALL BE RECEIVED AT THE ENGINEER'S OFFICE NO LATER THAN FOUR (4) WEEKS BEFORE THE PROJECT COMPLETION DATE. UPON RECEIVING THE LETTER, THE ENGINEER WILL PERFORM A PUNCH LIST. THE CONTRACTOR SHALL HAVE TWO (2) WEEKS TO COMPLETE THE PUNCH LIST ITEMS UPON RECEIVING THE PUNCH LIST.

B. PUNCHLIST COMPLETION LETTER

- THE PURPOSE OF THIS LETTER IS TO INFORM THE ENGINEER THAT THE CONTRACTOR HAS COMPLETED ALL PUNCHLIST ITEMS. THE CONTRACTOR MUST ENSURE THAT ALL PUNCHLIST ITEMS ARE INDEED COMPLETE PRIOR TO SUBMITTING THIS LETTER.
- 2) UPON COMPLETION OF PUNCHLIST ITEMS, THE CONTRACTOR SHALL CREATE A PUNCHLIST COMPLETION LETTER ON COMPANY LETTERHEAD, COMPLETE THE LETTER AND SEND IT TO THE ENGINEER.
- 3) THIS LETTER SHALL BE RECEIVED AT THE ENGINEER'S OFFICE NO LATER THAN ONE (1) WEEK BEFORE THE PROJECT COMPLETION DATE. UPON RECEIVING THIS LETTER, THE ENGINEER WILL PERFORM A FINAL WALKTHROUGH.
- 4) SHOULD THE ENGINEER DISCOVER DURING THE FINAL WALKTHROUGH THAT ALL OF THE PUNCHLIST ITEMS HAVE NOT BEEN COMPLETED, THE TIME AND EXPENSES ASSOCIATED WITH A RETURN VISIT BY THE ENGINEER SHALL BE CHARGEABLE TO THE CONTRACTOR.

SABIR, RICHARDSON & WEISBERG ENGINEERING & ARCHITECTURE

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CONSULTANTS	

PROJECT & ADDRESS

NEW HODGES AVE 39-45 HODGES AVE LAWNSIDE NJ 08045

OT PLAN	

ISSUE / REVISIONS

XX/XX/XX

XXXXXXXXXX

NO. DATE

EQUIMAX DEVELOPMENT COMPANY, LLC 170 WARWICK RD, N

DRAWING TITLE

ELECTRICAL LOAD
CALCULATIONS & LIGHTING
CONTROL SCHEDULE

LAWNSIDE, NJ 08045

E-301
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GENERAL SPECIFICATIONS GENERAL SPECIFICATIONS (CONTINUED) BID / PROPOSAL INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHERE THESE GENERAL SPECIFICATIONS ARE TO BE READ AND ADHERED TO BY THE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN ELECTRCAL CONTRACTOR. ITEMS ARE LOOSELY CATEGORIZED BY TRADE, BUT THIS DOES NOT LIMIT THE RESPONSIBILITY OF THE CONTRACTOR TO ANY SINGLE FROM BUILDING OWNER AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE CATEGORY. MOVED THROUGH ALL AREAS. 2. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY 2. PROTECT ALL EQUIPMENT FROM THE WEATHER AND DAMAGE AT ALL TIMES DURING PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF SHIPMENT, STORAGE AND CONSTRUCTION. THESE SPECIFICATIONS. THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM PROPER FIRE PROTECTION MEASURES, SATISFACTORY TO THE LOCAL FIRE THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIAL DEPARTMENT, SHALL BE TAKEN WHEN WELDING OR CUTTING WITH TORCHES OR WHICH VIOLATES ANY OF THE ABOVE LAWS AND REGULATIONS. ELECTRIC ARC. CONTRACTOR TO PROVIDE OPEN FLAME PERMIT IF REQUIRED. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE 2. ALL WORK SHALL BE DONE IN A NEAT WORKMANLIKE MANNER, LEFT CLEAN AND FREE CORRECTED BY THE CONTRACTOR. FROM DEFECTS, AND COMPLETELY OPERABLE. THE CONTRACTOR SHALL PROVIDE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS ALL EQUIPMENT AS SCHEDULED ON THE DRAWINGS. AND WORK. DRAWINGS DO NOT NECESSARILY INDICATE THE ACTUAL LOCATION OR 3. ALL WORK SHALL BE CAREFULLY COORDINATED WITH ALL TRADES INVOLVED, AND ROUTING OF EQUIPMENT, CONDUIT, PIPING, RACEWAY OR DUCTWORK. DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS CONDITIONS ALLOW TO COMPLETE THE INTENT THE CONTRACTOR SHALL PROVIDE PROPER CONNECTIONS, FITTINGS, VALVES, OF THE CONTRACT. MAINTAIN HEADROOM AND SPACE CONDITIONS. PIPING, ETC. FOR ALL EQUIPMENT FURNISHED BY THE OWNER OR THE TRADES INVOLVED IN THIS CONTRACT. 4. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE BASED ON THE INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN DIRECTED, AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH HOWEVER, THE CONTRACTORS SHALL INSTALL WORK DURING OVERTIME HOURS AND AT THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT "PREMIUM" PORTION OF THOSE WAGES PAID. COORDINATE WITH OTHER TRADES AND OWNER FOR EQUIPMENT LOCATIONS AND 5. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL CLEARANCES REQUIRED FOR EQUIPMENT. CONTRACTOR TO COORDINATE AND EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC, WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT MODIFY LAYOUT ACCORDINGLY. THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. **CUTTING AND PATCHING** 6. "FURNISH AND INSTALL" OR "PROVIDE" MEANS TO SUPPLY, ERECT, INSTALL AND 1. THE ELECTRICAL CONTRACTORS SHALL PERFORM ALL CUTTING AND PATCHING AS REQUIRED FOR THEIR RESPECTIVE WORK, EXCEPT THAT STRUCTURALLY FRAMED CONNECT UP TO COMPLETE FOR READINESS FOR REGULAR OPERATION, THE OPENINGS SHALL BE CUT AND FRAMED BY THE GENERAL CONTRACTOR. ALL HOLES IN PARTICULAR WORK REFERRED TO. MASONRY FLOORS AND WALLS SHALL BE CORE DRILLED. PATCH AND PAINT TO 7. ALL WORK SHALL BE PERFORMED BY AN ELECTRICIAN LICENSED IN THE JURISDICTION MATCH ADJACENT SURFACES. WHERE THE WORK IS LOCATED. ALL PENETRATIONS OF FLOORS (WHETHER OR NOT FIRE RESISTANCE RATED) AND ALL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH A CONTRACT / ADMINISTRATIVE THROUGH PENETRATION PROTECTION SYSTEM (FIRESTOPPING). EACH THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION AIA DOCUMENT THROUGH-PENETRATION PROTECTION SYSTEM SHALL BE TESTED IN ACCORDANCE A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE ARE PART OF WITH ASTM E814 AND BE LISTED FOR THE TYPE OF FLOOR OR WALL ASSEMBLY PENETRATED AND THE TYPE OF PROTECTION SYSTEM. THIS CONTRACT. ALL APPLICABLE ITEMS SHALL BEAR THE UNDERWRITERS LABORATORIES (UL) LABEL. AND/OR BE FACTORY MUTUAL APPROVED. ALL SUPPORT SYSTEMS (SUPPORTS, HANGERS, ANCHORS, GUIDES, BRACING, FASTENERS, WELDS, ETC.) FOR EQUIPMENT AND SYSTEMS INSTALLED OR REVISED AS 3. ALL MATERIAL, EQUIPMENT AND WORKMANSHIP SHALL BE NEW, U.O.N. AND SHALL BE PART OF THIS CONTRACT SHALL BE DESIGNED, SELECTED AND INSTALLED BY THE IN ACCORDANCE WITH BUILDING STANDARDS. CONTRACTOR TO RESIST ALL SEISMIC, WIND AND GRAVITY LOADS. INSURANCE: IN ACCORDANCE WITH OWNER REQUIREMENT AND SHALL INCLUDE A A. THE CODES LISTED UNDER THE APPLICABLE CODES AND REFERENCE SECTION HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER. OF THESE DOCUMENTS HAVE SPECIFIC REQUIREMENTS CONCERNING THE 5. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, TRANSPORTATION, FACILITIES, APPLICATION OF THESE LOADS AS WELL AS OTHER DESIGN REQUIREMENTS. UNDER CERTAIN CONDITIONS, THE APPLICABLE CODES REQUIRE THESE LOADS, OR A MANUFACTURERS NAMES GIVEN FOR EQUIPMENT ARE USED FOR THE BASIS OF COMBINATION OF THESE LOADS, BE CONSIDERED AS "COINCIDENTAL". THE SELECTION, NOT WITH INTENT TO LIMIT COMPETITION. EQUIVALENT EQUIPMENT OF CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CONFIRMING THAT THE OTHER MANUFACTURERS WILL BE CONSIDERED BASED ON SUBSTITUTION SECTION COMPONENT OF THE BUILDING STRUCTURE WHERE THESE SUPPORT SYSTEMS ARE OF SPECIFICATION. NO SUBSTITUTIONS ARE ALLOWED WHERE NEW EQUIPMENT ATTACHED IS ABLE TO RESIST THE DESIGN LOADS TRANSFERRED TO THIS BUILDING MUST MATCH EXISTING. CONTRACTOR SHALL PROVIDE ALL NECESSARY MISCELLANEOUS STEEL FOR THE **EXISTING CONDITIONS** SUPPORT OF ALL EQUIPMENT, PIPING, CONDUIT AND DUCTWORK SUSPENDED FROM REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK MAY BE NECESSARY FOR SLAB, STEEL, WALL, TRUSSWORK, AND ROOF OPENINGS. THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTORS SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES AND CHARGES IN MAKING UP THE WORK PROPOSAL. THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED 2. CONNECTIONS TO EXISTING WORK: INSTALL NEW WORK AND CONNECT TO EXISTING HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS OF SERVICE SHALL BE PERFORMED AT NO ADDITIONAL CHARGES. AT THE REQUIRED CERTIFICATES OF INSPECTIONS AND APPROVAL. TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES AND ONLY WITH WRITTEN CONSENT OF OWNER. ALARM AND EMERGENCY SYSTEMS SHALL PROVIDE THE OWNER WITH AN EQUIPMENT AND MAINTENANCE BINDER INCLUDING EACH SYSTEM MANUFACTURER'S INSTRUCTIONS, MAINTENANCE REQUIREMENTS, NOT BE INTERRUPTED. GUARANTEES AND WARRANTEE INFORMATION. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. PROMPTLY AND ASSUME RESPONSIBILITY FOR: CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION, INCLUDING A. ALL EXPENSES INCLUDED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH MAINTENANCE OF WIRING CONTINUITY AS REQUIRED. DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OR ACTUAL USE OF EQUIPMENT OR 4. WORK WILL BE CONDUCTED IN A LIVE WORKING ENVIRONMENT. PROVIDE TWO WEEK OCCUPANCY OF SPACES BY OWNER INCLUDED UNDER THE VARIOUS PARTS OF LOOK AHEAD SCHEDULE TO OWNER THROUGHOUT THE PROJECT. COORDINATE AND THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE COORDINATED OBTAIN APPROVAL FROM OWNER FOR ANY WORK THAT WILL AFFECT LIVE PORTIONS OF THE WORKING ENVIRONMENT PRIOR TO STARTING WORK. WITH THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE **DEMOLITION** CONTRACTOR WILL ASSUME RESPONSIBLY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS. DISCONNECT, REMOVE AND / OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW WORK. REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR. 2. THE CONTRACTOR SHALL REMOVE ANY AND ALL OBSOLETE, UNUSED OR UNNECESSARY ITEMS AS CALLED OUT ON DRAWINGS OR HEREIN SPECIFIED. ANY SUCH ITEMS INTENDED FOR SUCH REMOVAL SHALL BE COMPLETELY VERIFIED AND APPROVED BY THE OWNER AND ENGINEER. **CONSTRUCTION ADMINISTRATION** 3. ANY EXISTING EQUIPMENT THAT MAY BE RELOCATED TO ACCOMMODATE NEW WORK MAY BE ACCOMPLISHED BY THE CONTRACTOR, PROVIDED IT IS DONE SO AT NO

THIS SECTION CONTAINS REQUIREMENTS FOR CONSTRUCTION ADMINISTRATION OF

MEP/FP WORK. THESE REQUIREMENTS ARE IN ADDITION TO ANY REQUIREMENTS

LISTED ELSEWHERE IN THE CONTRACT DOCUMENTS. WHERE CONFLICTS EXIST

BETWEEN THIS SECTION AND OTHER SECTIONS, THE MORE STRINGENT

1. REQUESTS FOR INFORMATION (RFI) ARE QUESTIONS POSED BY THE CONTRACTOR

REQUIREMENT SHALL APPLY

REQUEST FOR INFORMATION

ADDITIONAL EXPENSE TO THE OWNER AND WRITTEN PERMISSION HAS BEEN

4. ALL ITEMS REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER, BUT SHALL BE

ANY ITEM INDICATED FOR DEMOLITION SHALL BE REMOVED, INCLUSIVE OF ANY

RACEWAY, BOXES, WIRING, ETC., BACK TO ITS ORIGINATING SOURCE, IF ENTIRE

CIRCUITS ARE REMOVED, PANEL SCHEDULES SHALL BE UPDATED AND BREAKERS

DISPOSED OF, IF SO DIRECTED BY THE OWNER AND ENGINEER. ITEMS SO DIRECTED

SHALL BE REMOVED FROM THE PREMISES BY THE CONTRACTOR AT HIS EXPENSE.

OBTAINED FROM THE OWNER AND ENGINEER.

PLACED IN "OFF" POSITION.

DELIVERY / HANDLING

INTENDED TO RESOLVE VAGUENESS AND CONFLICTS DURING CONSTRUCTION.

- 2. TO SUBMIT A RFI, THE CONTRACTOR MUST FILL OUT A REQUEST FOR INFORMATION FORM. ONLY A WRITTEN RFI FORM WILL BE ACKNOWLEDGED.
- 3. PRIOR TO SUBMITTING A RFI, THE CONTRACTOR MUST THOROUGHLY REVIEW THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS AND FORWARD THE RFI ONLY IF THE ISSUE IN QUESTION CANNOT BE RESOLVED. IF A RFI QUESTIONS A CLEARLY NOTED ITEM OR STANDARD CONSTRUCTION METHOD WHICH SHOULD BE KNOWN BY THE CONTRACTOR, THE ENGINEER MAY BACK CHARGE THE CONTRACTOR FOR TIME SPENT RESPONDING TO THE RFI.

SUBSTITUTIONS

GENERAL SPECIFICATIONS (CONTINUED)

- 1. SUBSTITUTIONS FOR SPECIFIED EQUIPMENT MUST INCLUDE A DETAILED COMPARISON CHECKLIST IDENTIFYING ALL PERTINENT SIMILARITIES AND DIFFERENCES BETWEEN THE TWO ITEMS. SUBSTITUTED ITEMS WITHOUT A COMPARISON CHECKLIST WILL NOT BE CONSIDERED.
- A. WHERE SUBSTITUTED ITEMS AFFECT OTHER TRADES, THIS CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE INSTALLATION AS REQUIRED TO ACCOMMODATE THE SUBSTITUTION. THIS INCLUDES, BUT IS NOT LIMITED TO, CHANGES IN ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS. THIS CONTRACTOR WILL PAY FOR ALL ASSOCIATED COSTS FOR FIELD CHANGES AND PROFESSIONAL SERVICES.
- 2. INCOMPLETE SUBMITTALS WILL BE RETURNED REJECTED.

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1. SCHEDULES AND LISTS

A. SCHEDULE OF VALUES

- 1) PRIOR TO INITIATING ANY WORK, THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF VALUES ON AN AIA G-703 CONTINUATION SHEET OUTLINING MATERIAL AND LABOR COSTS FOR EACH ITEM. THIS SCHEDULE OF VALUES SHALL BE SUBMITTED AS THE FIRST SHOP DRAWING.
- 2) INCLUDE IN THE SCHEDULE OF VALUES A LINE ITEM FOR RESOLVING PUNCHLIST ISSUES EQUAL TO 5% OF THE TOTAL CONTRACT VALUE.
- 3) NO PAYMENT APPLICATIONS WILL BE PROCESSED UNTIL THE SCHEDULE OF VALUES FORM HAS BEEN APPROVED BY THE ENGINEER.

B. EQUIPMENT MANUFACTURER LIST

1) WITHIN TEN (10) BUSINESS DAYS OF THE CONTRACT AWARD DATE, THE CONTRACTOR SHALL SUBMIT A LIST OF EQUIPMENT MANUFACTURERS, FOR THE ENGINEER'S REVIEW AND APPROVAL, THAT HE INTENDS TO USE ON THIS PROJECT.

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- 1) PRIOR TO SUBMITTING ANY SHOP DRAWINGS, THE CONTRACTOR SHALL ISSUE A SHOP DRAWING SUBMISSION SCHEDULE. THE PURPOSE OF THIS SCHEDULE IS TO IDENTIFY WHICH ITEMS REQUIRE SHOP DRAWINGS AND WHEN THESE SHOP DRAWINGS WILL BE SUBMITTED TO THE ENGINEER.
- a. BY AGREEING TO THIS SCHEDULE AT THE BEGINNING OF THE PROJECT, SHOP DRAWINGS WILL BE REVIEWED IN A TIMELY FASHION AND LONG LEAD ITEMS CAN BE PRIORITIZED AND REVIEWED FIRST.
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- 2) SUBMISSIONS LARGER THAN 11" X 17": SUBMIT TWO PRINTS AND ONE PAPER SEPIA TO THE ARCHITECT, THE ARCHITECT WILL FORWARD ONE PRINT AND THE PAPER SEPIA TO THE ENGINEER.
- 3) ALL SUBMISSIONS SHALL BE CLEARLY LEGIBLE. IF MULTIPLE PRODUCTS ARE ON THE SAME CATALOG CUT, THE PRODUCT THAT WILL BE UTILIZED ON THIS PROJECT SHALL BE CLEARLY INDICATED.

3. AS - BUILT DRAWINGS AND EQUIPMENT OPERATION INSTRUCTIONS

- A. REPRODUCIBLE "AS-BUILT" DRAWINGS SHALL BE PROVIDED INDICATING THE INSTALLED CONDITIONS OF THE WORK. "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF THE INSTALLATION.
- B. UPON COMPLETION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL FURNISH TYPE-WRITTEN UPDATED PANEL SCHEDULES FOR ANY PANEL IN WHICH WORK WAS DONE. PROVIDE A HARD AND SOFT COPY TO THE OWNER.

4. OPERATION AND MAINTENANCE MANUALS

GENERAL SPECIFICATIONS (CONTINUED)

A. FURNISH THREE COPIES OF COMPLETE OPERATIONS AND MAINTENANCE MANUALS TO THE ARCHITECT-ENGINEER, FOR APPROVAL AND FOR THE OWNER, ON ALL EQUIPMENT AND SYSTEMS. THE MANUALS SHALL BE BOUND IN HARDBACK, THREE RING LOOSE-LEAF BINDERS. THE FOLLOWING SHALL BE

1) NON-TECHNICAL CONTENT

- a. TITLE SHEET WITH JOB NAME, AND THE NAMES, ADDRESSES AND PHONE NUMBERS OF THE CONTRACTOR, SUBCONTRACTOR, CONTROL SUBCONTRACTOR, RELATED CONTRACTORS AND MATERIAL AND EQUIPMENT SUPPLIERS.
- b. INCLUDE A COMPREHENSIVE TABLE OF CONTENTS FOR ALL SECTIONS.
- c. GUARANTEES, INCLUDING EXTENDED GUARANTEES (WHERE APPLICABLE). ALL MATERIALS SHALL BE NEW AND ALL WORK AND MATERIALS SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE BY THE OWNER.

2) TECHNICAL CONTENT

- a. A COPY OF ACKNOWLEDGMENT OF INSTRUCTION TO THE OWNERS OPERATING PERSONNEL IN THE OPERATION OF ALL MECHANICAL EQUIPMENT AND SYSTEMS, SIGNED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE.
- b. TYPEWRITTEN OPERATING INSTRUCTIONS FOR THE OWNER'S PERSONNEL DESCRIBING HOW TO OPERATE (START, STOP, AND PERFORM NORMAL AND EMERGENCY OPERATING PROCEDURES) EACH PIECE OF EQUIPMENT; HOW TO SET THE TEMPERATURE CONTROL SYSTEM FOR NORMAL OPERATION AND NORMAL RESTARTING PROCEDURES, CAUTION AND WARNING NOTICES.
- APPROVED SHOP DRAWINGS, PRODUCT DATA AND PARTS AND MAINTENANCE BOOKLET FOR EACH ITEM OF MATERIAL AND EQUIPMENT FURNISHED UNDER MEP/FP SCOPE OF WORK.
- d. RECORD DRAWINGS OF ALL SYSTEMS INCLUDED IN THE PROJECT.
- e. TEST AND BALANCE REPORT.
- f. COPIES OF CERTIFICATES OF INSPECTION.
- B. DELIVER THE MANUALS TO THE OWNER PRIOR TO SUBMITTING APPLICATION FOR FINAL PAYMENT.

5. LETTERS

A. SUBSTANTIAL COMPLETION LETTER

- 1) THE PURPOSE OF THIS LETTER IS TO INFORM THE ENGINEER THAT THE CONTRACTOR HAS REACHED SUBSTANTIAL COMPLETION.
- 2) UPON SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL CREATE A SUBSTANTIAL COMPLETION LETTER ON COMPANY LETTERHEAD, COMPLETE THE LETTER AND SEND IT TO THE ENGINEER.
- 3) THIS LETTER SHALL BE RECEIVED AT THE ENGINEER'S OFFICE NO LATER THAN FOUR (4) WEEKS BEFORE THE PROJECT COMPLETION DATE. UPON RECEIVING THE LETTER, THE ENGINEER WILL PERFORM A PUNCH LIST. THE CONTRACTOR SHALL HAVE TWO (2) WEEKS TO COMPLETE THE PUNCH LIST ITEMS UPON RECEIVING THE PUNCH LIST.

B. PUNCHLIST COMPLETION LETTER

- THE PURPOSE OF THIS LETTER IS TO INFORM THE ENGINEER THAT THE CONTRACTOR HAS COMPLETED ALL PUNCHLIST ITEMS. THE CONTRACTOR MUST ENSURE THAT ALL PUNCHLIST ITEMS ARE INDEED COMPLETE PRIOR TO SUBMITTING THIS LETTER.
- 2) UPON COMPLETION OF PUNCHLIST ITEMS, THE CONTRACTOR SHALL CREATE A PUNCHLIST COMPLETION LETTER ON COMPANY LETTERHEAD, COMPLETE THE LETTER AND SEND IT TO THE ENGINEER.
- 3) THIS LETTER SHALL BE RECEIVED AT THE ENGINEER'S OFFICE NO LATER THAN ONE (1) WEEK BEFORE THE PROJECT COMPLETION DATE. UPON RECEIVING THIS LETTER, THE ENGINEER WILL PERFORM A FINAL WALKTHROUGH.
- 4) SHOULD THE ENGINEER DISCOVER DURING THE FINAL WALKTHROUGH THAT ALL OF THE PUNCHLIST ITEMS HAVE NOT BEEN COMPLETED, THE TIME AND EXPENSES ASSOCIATED WITH A RETURN VISIT BY THE ENGINEER SHALL BE CHARGEABLE TO THE CONTRACTOR.

SABIR, RICHARDSON & WEISBERG ENGINEERING & ARCHITECTURE

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CONSULTANTS	

PROJECT & ADDRESS

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OT PLAN	

ISSUE / REVISIONS

XX/XX/XX

XXXXXXXXXX

NO. DATE

EQUIMAX DEVELOPMENT COMPANY, LLC 170 WARWICK RD, N

DRAWING TITLE

ELECTRICAL LOAD
CALCULATIONS & LIGHTING
CONTROL SCHEDULE

LAWNSIDE, NJ 08045

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