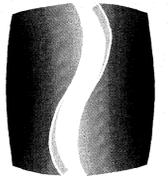


DIAMONDS DIRECT

INTERIOR TENANT IMPROVEMENT

CONSTRUCTION DOCUMENTS

2600 N MAYFAIR RD
WAUWATOSA, WI, 53226



PHILLIPS

CONSULTANT

MATERIALS	SYMBOLS	TEAM MEMBERS	CODE ANALYSIS	DRAWING INDEX								
<p>CMU</p> <p>BRICK</p> <p>CONCRETE</p> <p>RIGID INSULATION</p> <p>BATT INSULATION</p> <p>GRAVEL</p> <p>EARTH</p> <p>WOOD BLOCKING</p>	<p>FACE OF STRUCTURE</p> <p>CENTERLINE OF COLUMN</p> <p>NOTE TAG REFERENCING GENERAL NOTES ON PLANS</p> <p>DOOR NUMBER, SEE DOOR SCHEDULE</p> <p>ELEVATION MARK</p> <p>ENLARGED PLAN DETAIL MARK</p> <p>SECTION MARK 'SIM' - SIMILAR 'OH' - OPPOSITE HAND 'TP' - TYPICAL</p>	<p>LANDLORD: BROOKFIELD PROPERTIES RETAIL LLC 350 N ORLEANS ST #300 CHICAGO IL, 60654 BRIAN CONTNEY TEL: 312.960.2863 EMAIL: BRAIN.CONTNEY@BPRETAIL.COM</p> <p>TENANT: DIAMONDS DIRECT USA INS. 4521 SHARON ROAD, SUITE 101 CHARLOTTE, NC 28211 JEFFERY BAER TEL: 404.900.8315</p> <p>ARCHITECT: PHILLIPS PARTNERSHIP 5901 PEACHTREE DUNWOODY RD BUILDING A - SUITE 450 ATLANTA, GA 30328 JERRY CRAIN TEL: (770)394-1616 FAX: (770)394-1314</p> <p>MECHANICAL /PLUMBING: SAVANT ENGINEERING 5064 ROSWELL ROAD, SUITE D-301 SANDY SPRINGS, GA 30342 TROY NEDDERMAN, PE TEL: 770.319.7400 FAX: 770.319.7499 EMAIL: TNEDDERMAN@SAVANTENG.COM</p> <p>ELECTRICAL: SAVANT ENGINEERING 5064 ROSWELL ROAD, SUITE D-301 SANDY SPRINGS, GA 30342 JON GENTRY, PE TEL: 770.319.7400 FAX: 770.319.7499</p> <p>GENERAL CONTRACTOR: T.B.D. T.B.D.</p> <p>BUILDING DEPT: CITY OF WAUWATOSA 7725 W NORTH AVE, WAUWATOSA, WI, 53213 PHONE : (414) 479-8900</p>	<p>LOCATION: WAUWATOSA, WI</p> <p>SITE ZONING: C-3 (COMMERCIAL DISTRICT)</p> <p>WIND SPEED: 115 SEISMIC DESIGN CATEGORY: CATEGORY D (ASSUMED)</p> <p>APPLICABLE CODES: INTERNATIONAL BUILDING CODE (IBC): 2015 IBC WITH WI AMENDMENTS INTERNATIONAL EXISTING BUILDING CODE (IEBC): 2015 IEBC WITH WI AMENDMENTS INTERNATIONAL FIRE CODE (IFC): 2015 IFC WITH WI AMENDMENTS NATIONAL ELECTRICAL CODE (NEC): NFPA 70 2017 NEC WITH WI AMENDMENTS</p> <p>INTERNATIONAL FUEL GAS CODE: 2015 IFGC WITH WI AMENDMENTS INTERNATIONAL MECHANICAL CODE: 2015 IMC WITH WI AMENDMENTS INTERNATIONAL PLUMBING CODE: 2018 WISCONSIN UNIFORM PLUMBING CODE</p> <p>INTERNATIONAL ENERGY CONSERVATION CODE: 2015 IECC WITH WI AMENDMENTS</p> <p>OCCUPANCY CLASSIFICATION: MIXED; BUSINESS GROUP B - OFFICE AND MERCHANTILE GROUP M</p> <p>TYPE OF CONSTRUCTION: TYPE I B SPRINKLERED PER NFPA 13</p> <p>ALLOWABLE HEIGHT: 180'-0" (SEE IBC 504.2)</p> <p>BUILDING STORIES: 11 STORY (EXISTING)</p> <p>PROJECT NUMBER OF STORIES: 1 STORY (GROUND FLOOR)</p> <p>OCCUPANT SEPARATION: N/A</p> <p>TENANT SEPARATION: N/A</p> <p>TRAVEL DISTANCE: 250'-0" MAX. SPRINKLERED</p> <p>PROJECT AREA: 6588 SF</p> <p>EXITS PROVIDED: 2</p>	<p>SHEET NUMBER SHEET NAME</p> <p>TI PERMIT REV 1 07/20/23 07/31/23</p> <p>TYPICAL</p> <p>G-0.0 COVER SHEET</p> <p>G-0.1 GENERAL INFORMATION</p> <p>G-0.2 LIFE SAFETY PLAN</p> <p>G-9.0 ARCHITECTURAL SPECIFICATIONS</p> <p>G-9.1 ARCHITECTURAL SPECIFICATIONS</p> <p>G-9.2 ARCHITECTURAL SPECIFICATIONS</p> <p>G-9.3 ARCHITECTURAL SPECIFICATIONS</p> <p>SP-1.0 ARCHITECTURAL SITE PLAN</p> <p>ARCHITECTURAL</p> <p>A-0.0 GENERAL NOTES / DOOR SCHEDULES / FINISH SCHEDULE</p> <p>A-1.0 FIRST FLOOR PLAN</p> <p>A-1.1 DIMENSIONED FIRST FLOOR PLAN</p> <p>A-1.2 DIMENSIONED BASEMENT FLOOR PLAN</p> <p>A-1.3 ROOF FLOOR PLAN</p> <p>A-2.0 REFLECTED CEILING PLAN</p> <p>A-2.1 LIGHT FIXTURE SCHEDULE & RCP NOTES</p> <p>A-3.0 INTERIOR ELEVATIONS</p> <p>A-4.0 INTERIOR ELEVATIONS</p> <p>A-5.0 INTERIOR ELEVATIONS</p> <p>A-6.0 INTERIOR ELEVATIONS</p> <p>A-7.0 INTERIOR ELEVATIONS</p> <p>A-8.0 INTERIOR WALL SECTIONS</p> <p>A-9.0 GENERAL DETAILS</p> <p>MECHANICAL</p> <p>M0.00 SCHEDULES - HVAC</p> <p>M1.10 FLOOR PLAN - HVAC</p> <p>M3.10 ROOF PLAN - HVAC</p> <p>M4.01 DETAILS - HVAC</p> <p>M7.10 SPECIFICATIONS - HVAC</p> <p>PLUMBING</p> <p>P-0.1 SCHEDULES, DETAILS, - WASTE & VENT</p> <p>P-1.1 FLOOR PLAN - WASTE AND VENT</p> <p>P-1.2 FLOOR PLAN - WATER & GAS</p> <p>ELECTRICAL</p> <p>E0.00 LEGENDS AND SPECIFICATIONS - ELECTRICAL</p> <p>E1.10 LIGHTING PLAN</p> <p>E1.20 POWER PLAN</p> <p>E2.10 ROOF POWER PLAN</p> <p>E3.10 SCHEDULES AND DETAILS - ELECTRICAL</p> <p>E3.11 COMCHECK</p>								
GENERAL NOTES	VICINITY & SITE PLAN	INTERIOR FINISH REQUIREMENTS										
<p>1 GENERAL CONTRACTOR SHALL FIELD VERIFY SURVEY LOCATION AND ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER (IF APPLICABLE) AND ARCHITECT.</p> <p>2 THE GENERAL CONTRACTOR SHALL OBTAIN PERMITS, APPROVALS, INSPECTIONS, CERTIFICATE FOR COMPLIANCE AND CERTIFICATE OF OCCUPANCY AS REQUIRED.</p> <p>3 GENERAL CONTRACTOR SHALL CHECK IN WITH AND COORDINATE ALL WORK WITH THE LANDLORD'S PROJECT PERSONNEL.</p> <p>4 GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY POWER, LIGHT, AND TELEPHONE IN ACCORDANCE WITH THE LANDLORD'S REQUIREMENTS. GENERAL CONTRACTOR SHALL REMOVE ALL THESE ITEMS AT THE COMPLETION OF WORK OR AS REQUIRED.</p> <p>5 GENERAL CONTRACTOR SHALL MAINTAIN ON SITE AT ALL TIMES, ALL APPROVED DRAWINGS INCLUDING ALL REVISIONS AND ADDENDA.</p> <p>6 GENERAL CONTRACTOR SHALL COMPLETE ALL WORK IN A NEAT AND PROFESSIONAL MANNER.</p>		<p>SEE 2018 IBC SECTION 803.1.2 AND TABLE 803.13</p> <table border="1"> <thead> <tr> <th>LOCATIONS</th> <th>INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS AND EXIT PASSAGEWAYS</th> <th>CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS</th> <th>ROOMS AND ENCLOSED SPACES</th> </tr> </thead> <tbody> <tr> <td>MINIMUM INTERIOR WALL AND CEILING FINISH REQUIREMENTS FOR B, E, M, R-1 OCCUPANCY GROUPS (SPRINKLERED)</td> <td>CLASS: B</td> <td>CLASS: C</td> <td>CLASS: C</td> </tr> </tbody> </table> <p>CLASS A = FLAME SPREAD INDEX 0-25; SMOKE DEVELOPED INDEX 0-450 CLASS B = FLAME SPREAD INDEX 26-75; SMOKE DEVELOPED INDEX 0-450 CLASS C = FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450</p>	LOCATIONS	INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS AND EXIT PASSAGEWAYS	CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS	ROOMS AND ENCLOSED SPACES	MINIMUM INTERIOR WALL AND CEILING FINISH REQUIREMENTS FOR B, E, M, R-1 OCCUPANCY GROUPS (SPRINKLERED)	CLASS: B	CLASS: C	CLASS: C		
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MINIMUM INTERIOR WALL AND CEILING FINISH REQUIREMENTS FOR B, E, M, R-1 OCCUPANCY GROUPS (SPRINKLERED)	CLASS: B	CLASS: C	CLASS: C									
DEFERRED SUBMITTALS	SCOPE OF WORK											
<p>FIRE ALARM</p> <p>FIRE PROTECTION</p> <p>TENANT SIGNAGE</p> <p>ACCESS CONTROL</p>	<ul style="list-style-type: none"> UPDATED INTERIOR TENANT LAYOUT ; PROVIDE NEW INTERIOR FINISHES, CEILING GRID, LIGHTING, INTERIOR DOOR/HARDWARE, REWORKED MECHANICAL/PLUMBING AND ELECTRICAL WORK AS PER IMPROVEMENT FLOOR PLAN. 											

SEAL



ISSUE & REVISION RECORD

#	DATE	DESCRIPTION
	07/20/2023	TI PERMIT SET
△	07/31/2023	OWNER'S COMMENT

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DIAMONDS DIRECT
2600 N Mayfair RD
Wauwatosa, WI 53226

CLIENT

DIAMONDS DIRECT

PHILLIPS JOB NUMBER 2336402
ISSUE DATE 08/30/2023
DRAWN BY/CHECKED BY DT/GC
DRAWING TITLE

COVER SHEET

SHEET NUMBER

G-0.0

ISSUED FOR CONSTRUCTION

5901 PEACHTREE DUNWOODY RD
BUILDING A - SUITE 450
ATLANTA, GEORGIA 30328



PHILLIPS
CONSULTANT

SEAL



ISSUE & REVISION RECORD

#	DATE	DESCRIPTION
	07/20/2023	TI PERMIT SET

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DIAMONDS DIRECT
2600 N Mayfair RD
Wauwatosa, WI 53226

CLIENT



DIAMONDS DIRECT

PHILLIPS JOB NUMBER 2336402

ISSUE DATE 06/30/2023

DRAWN BY/CHECKED BY DT/GC

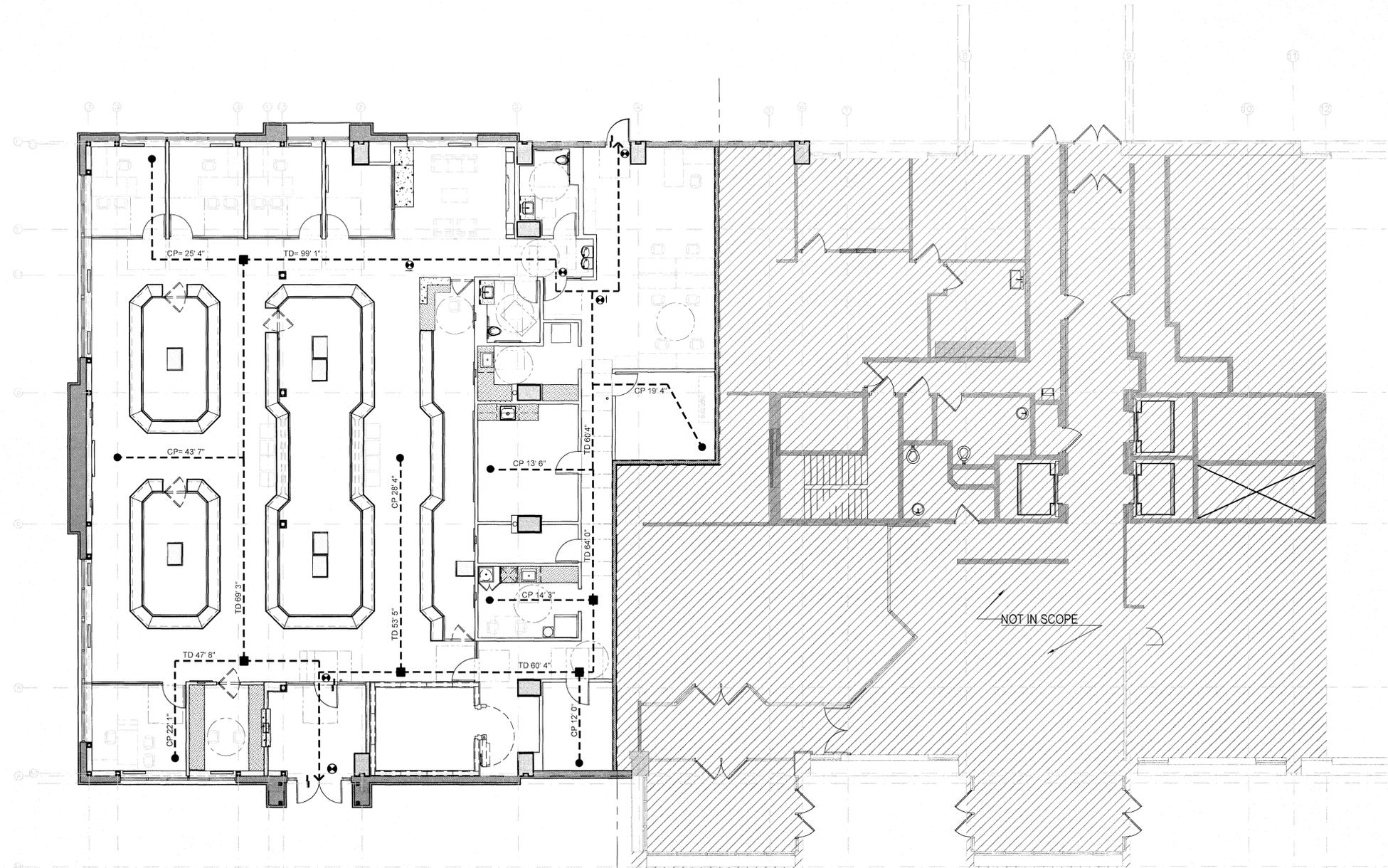
DRAWING TITLE

LIFE SAFETY PLAN

SHEET NUMBER

G-0.2

ISSUED FOR CONSTRUCTION



LIFE SAFETY PLAN

SCALE: 1/8"=1'-0"

LIFE SAFETY GENERAL NOTES:

A. 36 INCHES REQUIRED EGRESS CORRIDOR WIDTH FOR OCCUPANCIES UNDER 50. IBC SEC 1020.2

B. NO DEAD END CORRIDORS OVER 20'-0" IN LENGTH. IBC SEC 1020.4

C. MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE TO AN EXIT IS 75'-0" MEASURED AT THE MOST REMOTE POINT ALONG THE NATURAL AND UNOBSTRUCTED PATH OF HORIZONTAL AND VERTICAL TRAVEL TO THE EXIT. IBC TABLE 1006.2.1. THE COMMON PATH OF TRAVEL DISTANCE MUST BE LESS THAN 20 FEET WHERE THE PATH OF TRAVEL SERVES 50 OR MORE OCCUPANTS PER NFPA 101.

D. MAXIMUM EXIT ACCESS TRAVEL DISTANCE 250'-0" WITH SPRINKLERS. IBC TABLE 1017.2

E. DOORS, WHEN FULLY OPENED, SHALL NOT REDUCE THE REQUIRED MEANS OF EGRESS WIDTH BY MORE THAN 7 INCHES. DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN ONE HALF. IBC SEC 1005.7.1

F. DISTANCE BETWEEN TWO POINTS OF EGRESS (MEASURED IN A STRAIGHT LINE BETWEEN THE TWO) SHALL NOT BE LESS THAN 1/2 THE DIAGONAL SPACE BEING SERVED FOR THE EGRESS PATH. IBC SEC. 1007.1.1

G. HANDRAIL HEIGHT SHALL BE MEASURED FROM THE FINISH FLOOR SURFACE OR STAIR NOSING. HEIGHT SHALL BE UNIFORM, NOT LESS THAN 34" AND NOT MORE THAN 38" HIGH. IBC SEC 1014.2

H. GUARD RAIL HEIGHT SHALL BE MEASURED FROM THE ADJACENT WALKING SURFACE AND SHALL BE NOT LESS THAN 42" HIGH. IBC SEC 1015.3

I. SPACE BETWEEN DOORS IN A SERIES SHALL BE 48" MINIMUM PLUS THE WIDTH OF A DOOR SWINGING INTO THE SPACE. IBC SEC 1010.1.8

J. PROVIDE AND INSTALL OCCUPANCY SIGN IN A CONSPICUOUS LOCATION IN ACCORDANCE WITH STATE & LOCAL CODES.

K. ALL LIGHT SWITCHES, THERMOSTATS, SECURITY ALARMS, AND ELECTRICAL OUTLETS, ETC. MUST BE MOUNTED TO MEET ALL GOVERNING ACCESSIBILITY REQUIREMENTS FOR FLOOR & HEIGHT CLEARANCES AND ONE HAND GRASPING OPERATION.

FIRE EXTINGUISHER NOTES:

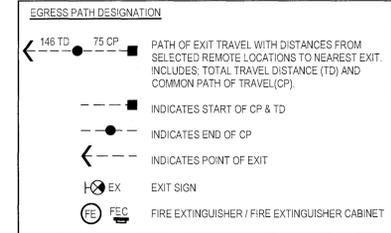
A. GC TO PROVIDE MIN. OF TWO (2) FIRE EXTINGUISHERS. INSTALL AT 44" AFF TO PERIPHERAL PART/BRACKET. LOCATIONS SHOWN ARE FOR REFERENCE ONLY. GC MUST VERIFY/COORDINATE ALL LOCATIONS AND QUANTITIES WITH LOCAL FIRE MARSHAL.

B. PER IFC, THE MINIMUM REQUIRED IS A 2A10BC EXTINGUISHER WITHIN 75'-0" OF TRAVEL DISTANCE OF ALL AREAS.

C. NFPA INSPECTION TAGS SHALL BE ATTACHED TO ALL FIRE EXTINGUISHERS.

CODED NOTES

1. INSTALL OWNER FURNISHED TACTILE EXIT SIGN TO GLASS WITH PRESSURE SENSITIVE FOAM TAPE.
2. INSTALL OWNER FURNISHED BLANK SIGN BACKPLATE TO GLASS WITH PRESSURE SENSITIVE FOAM TAPE. ALIGN WITH INTERIOR TACTILE SIGN LOCATION.
3. INSTALL OWNER FURNISHED BUSINESS HOURS SIGN BACKPLATE TO GLASS WITH PRESSURE SENSITIVE FOAM TAPE. ALIGN WITH INTERIOR TACTILE SIGN LOCATION.
4. PROPOSED FIRE EXTINGUISHER LOCATION. VERIFY/COORDINATE WITH LOCAL FIRE MARSHAL & OWNER.



ARCHITECTURAL SPECIFICATIONS

DIVISION 00: CONDITIONS OF THE CONTRACT

SECTION 00 7000 - GENERAL CONDITIONS

- A. GENERAL CONDITIONS: THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AIA DOCUMENT A201, 2007 EDITION, IS A PART OF THIS CONTRACT, AND SHALL GOVERN WORK.
1. A COPY WILL BE MADE AVAILABLE BY ARCHITECT UPON REQUEST.

DIVISION 01: GENERAL REQUIREMENTS

SECTION 01 1000 - SUMMARY OF WORK

- A. THE CONTRACTOR'S RESPONSIBILITIES TO EACH OF THE FOLLOWING ARE DESCRIBED IN THE SPECIFICATIONS AND DOCUMENTS BELOW.
1. UNLESS OTHERWISE NOTED, THE "OWNER" REFERS TO THE PERSONS, ORGANIZATION, AND/OR BUSINESS ENTERING INTO AN AGREEMENT WITH THE CONTRACTOR TO EXECUTE THE WORK INDICATED IN THE CONTRACT DOCUMENTS.
 2. THE "LANDLORD" REFERS TO THE PERSON, ORGANIZATION, AND/OR BUSINESS THAT OWNS OR IS RESPONSIBLE FOR MANAGING THE PROPERTY ON WHICH THE WORK IS TO BE EXECUTED.
- B. SCOPE: PROJECT CONSISTS OF THE CONSTRUCTION OF A INTERIOR RETAIL TENANT SPACE AS INDICATED IN THE CONTRACT DOCUMENTS.
1. HAZARDOUS MATERIALS: NOT IN CONTRACT; OWNER WILL PROVIDE FOR HANDLING OF HAZARDOUS MATERIALS UNDER SEPARATE CONTRACT PRIOR TO THIS PROJECT. IF HAZARDOUS MATERIALS ARE SUSPECTED, NOTIFY OWNER IMMEDIATELY.
- C. PERMITS AND INSPECTIONS
1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK.
 2. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTIONS REQUIRED FOR THE JURISDICTION IN WHICH THE WORK IS PERFORMED. VERIFY EXACT NUMBER, TYPE, AND SCHEDULE OF INSPECTIONS REQUIRED FOR THE WORK WITH THE LOCAL REGULATORY AGENCY PRIOR TO COMMENCING WITH THE WORK.
 3. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH DOCUMENTATION AND SCHEDULING NECESSARY FOR OCCUPANCY PERMIT.
 4. THE BUILDING PERMIT WILL BE OBTAINED BY THE CONTRACTOR.
- D. LINES AND LEVELS ENGINEERING
1. THE CONTRACTOR IS TO ESTABLISH LINES AND LEVELS BY USE OF RECOGNIZED ENGINEERING PRACTICES.
 2. THE CONTRACTOR IS TO LOCATE AND PROTECT CONTROL AND REFERENCE POINTS.
- E. THE WORK SHALL COMPLY WITH APPLICABLE CODES, AMENDMENTS, RULES, REGULATIONS, ORDINANCES, LAWS, ORDERS, APPROVALS, ETC, THAT ARE REQUIRED BY PUBLIC AUTHORITIES. IN THE EVENT OF A CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN. REQUIREMENTS INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, THE CURRENTLY APPLICABLE EDITIONS OR PUBLICATIONS OF THOSE LISTED ON G0.00.
- F. STANDARDS: COMPLY WITH THE STANDARDS REFERENCED EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE REQUIRED BY CODE. DATE OF STANDARD IS THAT IN EFFECT AS OF DATE DOCUMENTS ARE ISSUED, EXCEPT WHEN A SPECIFIC DATE IS SPECIFIED.
- G. OWNER FURNISHED CONTRACTOR INSTALLED ITEMS: OWNER WILL ARRANGE FOR AND PAY FOR PRODUCT AS INDICATED ON DRAWINGS TO BE DELIVERED TO PROJECT SITE FOR CONTRACTOR INSTALLATION.
1. CONTRACTOR SHALL INSPECT, RECEIVE, UNLOAD, STORE, INSTALL, AND FINISH.

SECTION 01 3000 - ADMINISTRATIVE REQUIREMENTS

- A. CONSTRUCTION PROGRESS SCHEDULE: PROVIDE BAR CHARTS OR CONTRACTOR'S STANDARD COMPUTERIZED SCHEDULES, UPDATED REGULARLY, BUT NO LESS THAN MONTHLY.
- B. SCHEDULE OF VALUES: AIA FORM G703 OR APPROVED FORMAT.
- C. COORDINATION: COORDINATE USE OF PREMISES & ACCESS TO SITE UNDER DIRECTION OF LANDLORD/OWNER; COORDINATE WORK TO ASSURE EFFICIENT & ORDERLY SEQUENCE OF INSTALLATION OF CONSTRUCTION ELEMENTS.
1. MAKE PROVISIONS FOR OWNER INSTALLED ITEMS AND FOR SEPARATE CONTRACTS.
 2. VERIFY THAT CHARACTERISTICS OF INTERRELATED OPERATING EQUIPMENT ARE COMPATIBLE; COORDINATE WORK HAVING INTERDEPENDENT RESPONSIBILITIES FOR INSTALLING, CONNECTION TO, AND PLACING SUCH EQUIPMENT IN SERVICE.
 3. COORDINATE SPACE REQUIREMENTS & INSTALLATION OF MECHANICAL & ELECTRICAL WORK; CONCEAL PIPES, DUCTS, AND WIRING IN FINISHED AREAS; COORDINATE LOCATIONS OF FIXTURES & OUTLETS WITH FINISHES.
- D. PROJECT MEETINGS: SCHEDULE AND ADMINISTER MEETINGS, MAKE PHYSICAL ARRANGEMENT, PREPARE AGENDA, PRESIDE AT MEETINGS, AND RECORD MINUTES.
- E. PROJECT PROGRESS PICTURES: PROVIDE WEEKLY PHOTOS OF PROJECT INDICATIVE OF THE PROGRESS MADE & OVERALL STAGE OF DEVELOPMENT.

SECTION 01 3300 - SUBMITTALS

- A. SUBMITTALS SHALL INCLUDE BUT ARE NOT LIMITED TO:
1. STRUCTURAL SHOP DRAWINGS
 2. DOORS, FRAMES, AND HARDWARE
 3. STOREFRONTS AND ENTRANCES
 4. GLASS
 5. METALS
 6. ROOFING
 7. FIRE ALARM AND SPRINKLER SHOP DRAWINGS
 8. MECHANICAL EQUIPMENT, ETC.
 9. ELECTRICAL EQUIPMENT, ETC.
 10. PLUMBING EQUIPMENT, FIXTURES, DEVICES, ETC.
 11. MILLWORK
 12. ALL FINISHES (PAINT COLORS, COUNTERTOPS, CEILING TILES, ETC.)
 13. CEILING ACCESS PANELS
 14. SAFE AND SAFE DOOR SHOP DRAWINGS, HARDWARE, ETC.
 15. SIGNAGE
- B. PROCEDURES: CONTRACTOR SHALL REVIEW AND APPROVE, BY STAMP, ALL SUBMITTALS PRIOR TO SUBMITTING TO OWNER'S PROJECT MANAGER; INFORM OWNER'S PROJECT MANAGER, IN WRITING, AT TIME OF SUBMISSION OF ANY PROPOSED DEVIATION FROM CONTRACT DOCUMENTS.
1. SUBMITTAL BY CONTRACTOR REPRESENTS THAT FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, CATALOG NUMBERS, AND SIMILAR DATA HAVE BEEN DETERMINED AND VERIFIED BY CONTRACTOR.
 2. REVIEW OF SUBMITTALS BY OWNER'S PROJECT MANAGER SHALL BE FOR DESIGN CONCEPT ONLY AND SHALL NOT BE CONSTRUED AS APPROVING DEPARTURES FROM CONTRACT DOCUMENTS.
- C. SHOP DRAWINGS: SUBMIT IN DIGITAL PDF FORMAT OR ONE (1) HARD COPY SET AS APPLICABLE; PROVIDE FOR CUSTOM PRODUCTS AND PRODUCTS NOT FULLY IDENTIFIED BY PRODUCT DATA WHEN DIRECTED TO IN CONTRACT DOCUMENTS.
- D. PRODUCT DATA: SUBMIT QUANTITY REQUIRED BY CONTRACTOR PLUS TWO (2) FOR OWNER'S PROJECT MANAGER; INDICATE ITEM TO BE USED WHERE DATA FOR MORE THAN ONE (1) PRODUCT OR OPTION IS INCLUDED; PROVIDE FOR EACH STOCK MANUFACTURED ITEM WHEN DIRECTED TO IN CONTRACT DOCUMENTS.
- E. SAMPLES: PROVIDE SAMPLES FOR EACH TYPE OF EXPOSED FINISH, COLOR, AND TEXTURE; MINIMUM SIZE 6", MAXIMUM SIZE 12" UNLESS OTHERWISE SPECIFIED; SUBMIT ONE (1) SAMPLE FOR ARCHITECT TO RETAIN, ONE (1) SAMPLE FOR FIELD OFFICE, AND QUANTITY REQUIRED BY CONTRACTOR WHEN DIRECTED TO IN CONTRACT DOCUMENTS.

SECTION 01 4000 - QUALITY CONTROL

- A. GENERAL: MAINTAIN QUALITY CONTROL OVER SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS, AND WORKMANSHIP.
- B. DIMENSIONS AND TOLERANCES
1. **DO NOT SCALE DRAWINGS:** DIMENSIONS GOVERN. VERIFY DIMENSIONS WITH FIELD CONDITIONS. IF DISCREPANCIES ARE DISCOVERED BETWEEN FIELD CONDITIONS AND DRAWINGS OR BETWEEN DRAWINGS, CONTACT THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING.
 2. FLOOR TOLERANCE: THE CONTRACTOR IS TO IMMEDIATELY VERIFY SLOPE AND REPORT ANY DEVIATION OVER A 1/4 INCH SLOPE IN 10 FEET TO THE ARCHITECT PRIOR TO COMMENCING WORK. **THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEVELING ALL AREAS TO ACHIEVE A SLOPE DEVIATION OF LESS THAN 1/4 INCH SLOPE IN 10 FEET. THE CONTRACTOR SHALL ENSURE AN ABSOLUTE LEVEL FLOOR UNDER ALL SWINGING AND SLIDING DOORS.**
 3. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF THE ARCHITECT UNLESS NOTED (E).
 4. DIMENSIONS INDICATED WITH "CLEAR", "CLR", OR "HOLD" SHALL BE MAINTAINED. ANY DISCREPANCIES OR VARIATIONS IN THESE DIMENSIONS SHALL BE REVIEWED WITH THE ARCHITECT BEFORE BEGINNING CONSTRUCTION.
 5. ANY DIMENSION NOTED "VERIFY" OR "V.I.F." MUST BE REVIEWED WITH THE ARCHITECT BEFORE BEGINNING CONSTRUCTION.
 6. THE CONTRACTOR SHALL CONTINUOUSLY CHECK ARCHITECTURAL AND STRUCTURAL CLEARANCES FOR ACCESSIBILITY OF EQUIPMENT AND MECHANICAL AND ELECTRICAL SYSTEMS. NO ALLOWANCE OF ANY KIND WILL BE MADE FOR THE CONTRACTOR'S FAILURE TO FORESEE MEANS OF INSTALLING EQUIPMENT INTO POSITION INSIDE STRUCTURES.
- C. OBSERVATION OF WORK:
1. THE ARCHITECT, ACTING AS THE OWNER'S DESIGNATED AGENT FOR DESIGN OF THIS PROJECT, WILL EXERCISE SOLE AUTHORITY FOR DETERMINING CONFORMANCE OF MATERIALS, EQUIPMENT, AND SYSTEMS WITH THE INTENT OF THIS DESIGN. REVIEW AND ACCEPTANCE OF ITEMS PROPOSED BY CONTRACTOR FOR INCORPORATION INTO THE WORK WILL BE BY THE ARCHITECT. THIS FUNCTION OF THE ARCHITECT WILL APPLY BOTH TO CONTRACT, AS INITIALLY SIGNED, AND TO THE CHANGES TO CONTRACT BY MODIFICATION DURING PROGRESS OF WORK.
 2. IF AT ANY TIME BEFORE COMMENCEMENT OF WORK, OR DURING PROGRESS THEREOF, THE CONTRACTOR'S METHODS, EQUIPMENT, OR APPLIANCES ARE INEFFICIENT OR INAPPROPRIATE FOR SECURING QUALITY OF WORK OR RATE OF PROGRESS INTENDED BY CONTRACTOR DOCUMENTS, THE OWNER MAY ORDER THE CONTRACTOR TO IMPROVE THEIR QUALITY OR INCREASE THEIR EFFICIENCY. THIS WILL NOT RELIEVE THE CONTRACTOR OR HIS SURETIES FROM THEIR OBLIGATION TO SECURE QUALITY OF WORK AND RATE OF PROGRESS SPECIFIED IN CONTRACT.
- D. REFERENCE TO STANDARDS:
1. MATERIALS AND WORKMANSHIP SPECIFIED BY REFERENCE TO NUMBER SYMBOL, TO TITLE OF A SPECIFICATION SUCH AS COMMERCIAL STANDARDS, FEDERAL SPECIFICATIONS, TRADE ASSOCIATIONS STANDARD, OR OTHER SIMILAR STANDARD SHALL COMPLY WITH REQUIREMENTS IN LATEST EDITION OR REVISION THEREOF AND WITH ANY AMENDMENT OR SUPPLEMENT THERETO IN EFFECT ON DATE OF ORIGIN OF THIS PROJECT'S CONTRACT DOCUMENT, SUCH STANDARD, EXCEPT AS MODIFIED HEREIN SHALL HAVE FULL FORCE AND EFFECTS AS THOUGH PRINTED IN CONTRACT DOCUMENTS.
 2. THE CONTRACTOR SHALL WAIVE "COMMON PRACTICE" AND "COMMON USAGE" AS CONSTRUCTION CRITERIA WHEREVER DETAILS AND CONTRACT DOCUMENTS OR GOVERNING CODES, ORDINANCES, ETC, REQUIRE GREATER QUANTITY OR BETTER QUALITY THAN COMMON PRACTICE OR COMMON USAGE WOULD REQUIRE.
- E. EXISTING CONDITIONS:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS, AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. CLARIFICATION REGARDING ANY CONFLICTS SHALL BE RECEIVED PRIOR TO RELATED WORK BEING STARTED.
 2. **THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF ANY DEFICIENCIES IN BASE BUILDING CONSTRUCTION PRIOR TO THE COMMENCEMENT OF THIS WORK. ANY UNREPORTED DEFICIENCIES WILL BECOME THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT.**
- F. **IN THE EVENT OF CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE SPECIFICATIONS SHALL GOVERN. DETAIL DRAWINGS TAKE PRECEDENCE OVER DRAWINGS OF LARGER SCALE. SHOULD THE CONTRACTOR AT ANY TIME DISCOVER AN ERROR IN A DRAWING OR SPECIFICATION, OR A DISCREPANCY OR VARIATION BETWEEN DRAWINGS, OR A DISCREPANCY OR VARIATION BETWEEN DIMENSIONS AND MEASUREMENTS AT SITE, OR LACK OF DIMENSIONS OR OTHER INFORMATION, THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK AFFECTED UNTIL CLARIFICATION HAS BEEN MADE.**
- G. THE CONTRACTOR SHALL FOLLOW MANUFACTURERS' RECOMMENDED SPECIFICATION & INSTALLATION PROCEDURES. IF THESE ARE CONTRARY TO THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING, IMMEDIATELY, TO RESOLVE ANY DISCREPANCIES PRIOR TO PROCEEDING.
- H. ONLY NEW ITEMS OF RECENT MANUFACTURE OF THE HIGHEST QUALITY, FREE FROM DEFECTS, WILL BE PERMITTED ON THE WORK. REJECTED ITEMS SHALL BE REMOVED IMMEDIATELY FROM THE WORK AND REPLACED WITH ITEMS OF THE QUALITY SPECIFIED. FAILURE TO REMOVE REJECTED MATERIALS AND EQUIPMENT SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR QUALITY AND CHARACTER OF ITEMS USED NOR FROM ANY OTHER OBLIGATION IMPOSED BY THE CONTRACT.

- I. MANUFACTURER'S FIELD SERVICES: WHEN SPECIFIED IN RESPECTIVE SPECIFICATION SECTIONS, REQUIRE MFR. OR SUPPLIER TO HAVE QUALIFIED PERSONNEL PROVIDE ON-SITE OBSERVATIONS & RECOMMENDATIONS.
1. REPRESENTATIVE SHALL:
 - a. OBSERVE FIELD CONDITIONS, INCLUDING CONDITIONS OF SURFACES.
 - b. OBSERVE QUALITY OF WORKMANSHIP AND METHODS OF INSTALLATION.
 - c. PROVIDE RECOMMENDATIONS FOR INSTALLATION AND WORKMANSHIP.
 - d. WHERE REQUIRED, START, TEST, AND ADJUST EQUIPMENT AS APPLICABLE.
 - e. SUBMIT WRITTEN REPORT OF OBSERVATIONS TO OWNER'S PROJECT MANAGER.

SECTION 01 5000 - TEMPORARY FACILITIES AND CONTROLS

- A. GENERAL: PROVIDE TEMPORARY CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS AS REQUIRED TO COMPLETE PROJECT IN ACCORDANCE WITH CONTRACT DOCUMENTS AND TO CONFORM WITH REQUIREMENTS OF APPLICABLE AUTHORITIES.
1. CONTACT GOVERNING AUTHORITIES TO ESTABLISH EXTENT OF TEMPORARY FACILITIES AND TEMPORARY CONTROLS REQUIRED BY AUTHORITIES.
- B. TEMPORARY POWER: PROVIDE POWER SERVICE AND LIGHTING REQUIRED FOR OPERATIONS WITH BRANCH WIRING AND DISTRIBUTION BOXES LOCATED TO ALLOW SERVICE AND LIGHTING BY MEANS OF CONSTRUCTION-TYPE POWER CORDS.
- C. TEMPORARY WATER AND SANITARY SERVICES: PROVIDE AND MAINTAIN REQUIRED DRINKING WATER AND SANITARY FACILITIES WITH ENCLOSURES.
- D. NOISE, DUST, AND POLLUTION CONTROL: PROVIDE MATERIALS AND EQUIPMENT NECESSARY TO COMPLY WITH LOCAL REQUIREMENTS FOR NOISE, DUST, AND POLLUTION CONTROL.
- E. BARRIERS: PROVIDE AS REQUIRED TO PROTECT ADJACENT PROPERTIES FROM DAMAGE FROM OPERATIONS; AND AS REQUIRED BY GOVERNING AUTHORITIES.
- F. CLEANING: CONTROL ACCUMULATION OF WASTE MATERIALS AND RUBBISH; DISPOSE OF OFF-SITE AT INTERVALS APPROVED BY OWNER'S PROJECT MANAGER AND ACCEPTABLE TO APPLICABLE AUTHORITIES.
- G. SIGNS: SUBJECT TO APPROVAL OF OWNER'S PROJECT MANAGER.
- H. FIELD OFFICE: PROVIDE WEATHER-TIGHT FIELD OFFICE, WITH LIGHTING, ELECTRICAL OUTLETS, HEATING, AND VENTILATING EQUIPMENT, AND EQUIPPED WITH FURNITURE.
1. TELEPHONE SERVICE: PROVIDE TELEPHONE SERVICE & FAX SERVICE TO SITE DURING ON-SITE CONSTRUCTION OPERATIONS.
 2. TELEPHONE SERVICE: PROVIDE CELLULAR PHONE WITH ON-SITE PERSON IN CHARGE; PROVIDE PHONE NUMBER TO OWNER'S PROJECT MANAGER.
- I. STORAGE: LIMIT ON-SITE STORAGE TO AREAS DESIGNATED FOR CONSTRUCTION OPERATIONS AND APPROVED IN WRITING IN ADVANCE BY OWNER; PROVIDE ADDITIONAL WEATHER-TIGHT, SECURED, OFF-SITE STORAGE AS REQ'D.

SECTION 01 6000 - PRODUCT REQUIREMENTS

- A. CONTRACT AMOUNT: BASED ON MATERIALS AND PRODUCTS IN CONTRACT DOCUMENTS; WHERE LISTED IN CONTRACT DOCUMENTS, MATERIALS AND PRODUCTS BY MANUFACTURERS NOT LISTED SHALL NOT BE USED WITHOUT WRITTEN APPROVAL.
- B. PRODUCTS: PROVIDE NEW MATERIALS UNLESS OTHERWISE DIRECTED IN CONTRACT DOCUMENTS.
- C. INSTALLATION: INSTALL ITEMS PLUMB, LEVEL, SECURE, AND IN CORRECT RELATION TO ADJACENT PRODUCTS; SECURE IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED AND SIZED TO WITHSTAND STRESSES, VIBRATION, AND RACKING.
1. COMPLY WITH MANUFACTURER RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SPECIFIED.
- D. TRANSPORTATION: TRANSPORT PRODUCTS TO AVOID PRODUCT DAMAGE. DELIVER IN UNDAMAGED CONDITION IN MANUFACTURER'S UNOPENED CONTAINERS OR PACKAGINGS.
- E. HANDLING: PROVIDE EQUIPMENT AND PERSONNEL TO HANDLE PRODUCTS BY METHODS TO PREVENT SOILING AND DAMAGE; PROMPTLY INSPECT TO ASSURE PRODUCTS ARE CORRECT, COMPLETE, UNDAMAGED, AND QUANTITIES ARE CORRECT.
- F. STORAGE: STORE MATERIAL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS, WITH SEALS AND LABELS INTACT AND LEGIBLE.
- G. PROTECTION: PROVIDE COVERINGS TO PROTECT PRODUCTS FROM DAMAGE FROM TRAFFIC AND CONSTRUCTION OPERATIONS, REMOVE WHEN NO LONGER NEEDED.
- H. SPECIFIED PRODUCTS: FOR PRODUCTS SPECIFIED BY NAMING ONE (1) OR MORE PRODUCTS OR MANUFACTURERS, SELECT PRODUCTS OF ANY NAMED MANUFACTURER MEETING SPECIFICATIONS.

SECTION 01 6300 - SUBSTITUTIONS AND PRODUCT OPTION

- A. SUBSTITUTIONS AND PRODUCT OPTIONS: PROVIDE PRODUCTS INDICATED OR APPROVED; NO SUBSTITUTIONS OF ANY ITEM SPECIFIED SHALL BE PERMITTED UNLESS NOTED. WHEN NOTED, REQUESTS FOR SUBSTITUTIONS OF OTHER PRODUCTS WILL BE CONSIDERED IF SUBMITTED IN WRITING.
1. CONTRACTOR OPTIONS: PROVIDE PRODUCTS AND MANUFACTURERS NAMED IN SPECIFICATIONS, SUBMIT REQUEST FOR SUBSTITUTION FOR PRODUCTS AND MANUFACTURERS NOT SPECIFICALLY NAMED WHERE NAMES ARE LISTED.
 2. SUBSTITUTIONS: CONTRACTOR SHALL INVESTIGATE PROPOSED SUBSTITUTIONS AND DETERMINE IF EQUIVALENT TO PRODUCTS SPECIFIED. SUBMITTALS SHALL INCLUDE COST OR TIME BENEFITS FOR SUBSTITUTIONS; FAILURE TO INDICATE COST OR TIME BENEFIT IS JUSTIFICATION FOR REJECTION.
 3. CONTRACTOR'S REPRESENTATION: REQUESTS CONSTITUTE THAT CONTRACTOR HAS INVESTIGATED PROPOSED PRODUCTS AND DETERMINES IT MEETS OR EXCEEDS SPECIFIED PRODUCTS AND WAIVES CLAIMS FOR ADDITIONAL COSTS THAT SUBSEQUENTLY BECOME APPARENT.
 4. ARCHITECT'S DUTIES: OWNER'S PROJECT MANAGER SHALL BE JUDGE OF ACCEPTABILITY AND RESERVES RIGHT TO REJECT PROPOSED SUBSTITUTION BASED ON INSUFFICIENT INFORMATION; USE ONLY SUBSTITUTIONS APPROVED IN WRITING. OWNER'S PROJECT MANAGER HAS THE RIGHT TO EMPLOY ARCHITECT TO EVALUATE AND APPROVE SUBSTITUTIONS.

SECTION 01 7000 - EXECUTION REQUIREMENTS

- A. INSTALLER QUALIFICATIONS: INSTALLERS TO HAVE MINIMUM FIVE (5) YEARS SUCCESSFUL EXPERIENCE INSTALLING ITEMS SIMILAR TO THOSE REQUIRED FOR PROJECT, EXCEPT FOR INDIVIDUALS IN TRAINING UNDER DIRECT SUPERVISION OF EXPERIENCED INSTALLER.
- B. EXAMINATION: BEGINNING INSTALLATION OF A PRODUCT SIGNIFIES INSTALLER HAS EXAMINED SUBSTRATES, AREAS, AND CONDITIONS FOR COMPLIANCE WITH MANUFACTURER REQUIREMENTS FOR TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE.
- C. MANUFACTURER'S INSTRUCTIONS: WHEN WORK IS SPECIFIED TO COMPLY WITH MANUFACTURERS' RECOMMENDATIONS OR INSTRUCTIONS, DISTRIBUTE COPIES TO PERSONS INVOLVED, AND MAINTAIN ONE (1) SET IN FIELD OFFICE.
- D. INSTALLATION: COMPLY WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS UNLESS MORE RESTRICTIVE REQUIREMENTS ARE SPECIFIED.
- E. PROTECTION: COVER PRODUCTS SUBJECT TO DETERIORATION WITH IMPERVIOUS SHEET AND PROVIDE VENTILATION TO AVOID CONDENSATION AND TRAPPING WATER.
- F. CUTTING AND PATCHING: CUT AND FIT COMPONENTS AS REQUIRED; PATCH DISTURBED AREAS TO MATCH ADJACENT MATERIALS AND FINISHES.
1. REFINISHING: REFINISH ENTIRE SURFACES AS NECESSARY TO PROVIDE EVEN FINISH TO MATCH ADJACENT FINISHES. FOR CONTINUOUS SURFACES, REFINISH TO NEAREST INTERSECTION. FOR AN ASSEMBLY, REFINISH ENTIRE UNIT.
- G. FINAL CLEANING: REMOVE PROTECTIVE COATINGS, COVERINGS, ANY TAGS, LABELS, OR OTHER MARKINGS FROM MATERIALS FIXTURES, AND EQUIPMENT. CLEAN WALL, FLOOR, AND CEILING SURFACES INCLUDING TRIM, OUTLET, SWITCH PLATES, WINDOWS, WINDOW SILLS, AND WINDOW TREATMENTS. CLEAN PLUMBING FIXTURES TO A SANITARY CONDITION.
- H. SUBSTANTIAL COMPLETION: PROVIDE DOCUMENTATION STATING WORK HAS BEEN SUBSTANTIALLY COMPLETED. WHERE OWNER REQUIRES USE OF SPACE PRIOR TO FINAL COMPLETION, PROVIDE LIST OF ITEMS TO BE COMPLETED.
1. OWNER'S PROJECT MANAGER WILL REVIEW LIST OF ANY ITEMS TO BE COMPLETED AND SUPPLEMENT LIST WITH ITEMS CONSIDERED TO BE INCOMPLETE OR UNACCEPTABLE.
- I. FINAL COMPLETION: PROVIDE WRITTEN CERTIFICATION INDICATING WORK IS IN COMPLIANCE WITH CONTRACT DOCUMENTS, SYSTEMS HAVE BEEN TESTED AND ARE OPERATIONAL, AND WORK IS READY FOR FINAL INSPECTION.
- J. PROJECT RECORD DOCUMENTS: MAINTAIN COMPLETE AND UP-TO-DATE RECORD DOCUMENTS; KEEP SEPARATE FROM FIELD DOCUMENTS. SUBMIT PROJECT RECORD DOCUMENTS, MATERIAL AND FINISH DATA, OPERATION AND INSTRUCTION MANUALS, AND WARRANTIES AND BONDS AT COMPLETION.
1. SUBMIT BOUND IN 8-1/2" X 11" THREE (3) RING BINDERS WITH DURABLE PLASTIC COVERS. ARRANGE IN FORMAT SIMILAR TO SPECIFICATIONS.
- K. WARRANTIES: PROVIDE WARRANTIES AS INDICATED, SIGNED BY CONTRACTOR AND MANUFACTURER; FORM AS APPROVED BY OWNER PRIOR TO EXECUTION.
1. WARRANTIES SHALL BE IN ADDITION TO AND NOT A LIMITATION OF OTHER RIGHTS OWNER MAY HAVE AGAINST CONTRACTOR UNDER CONTRACT DOCUMENTS AND AS PRESCRIBED BY LAW, REGARDLESS OF WORDING OF WARRANTY.
- L. CERTIFICATE OF OCCUPANCY: OBTAIN CERTIFICATE OF OCCUPANCY SO AS NOT TO DELAY OWNER'S POSSESSION OF THE SPACE AND/OR AFFECT OPENING DATE.

SECTION 01 7500 - CONTRACT CLOSEOUT

- A. **WHEN THE CONTRACTOR CONSIDERS THAT THE WORK IS SUBSTANTIALLY COMPLETE, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ARCHITECT A LIST OF ITEMS TO BE COMPLETED OR CORRECTED. THE ARCHITECT SHALL VISIT THE SITE TO DETERMINE THE STATUS OF COMPLETION AND AMEND THE CONTRACTOR'S LIST AS REQUIRED. ONCE THE LISTED ITEMS HAVE BEEN COMPLETED OR CORRECTED AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT WRITTEN CONFIRMATION THAT ALL LISTED ITEMS HAVE BEEN COMPLETED OR CORRECTED TO THE OWNER.**
- B. THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE OWNER BY THE CONTRACTOR BEFORE REQUESTING FINAL PAYMENT:
1. COMPLETE RELEASE OR WAIVER OF LIENS DOCUMENTATION SHALL BE NOTARIZED AND SIGNED.
 2. CERTIFICATES OF INSPECTION APPROVALS FOR REQUIRED OCCUPANCY PERMIT AND SIMILAR APPROVALS OR CERTIFICATIONS BY GOVERNING AUTHORITIES, ASSURING THE OWNERS FULL ACCESS AND USE OF COMPLETED WORK.
 3. A NOTEBOOK CONTAINING WARRANTIES, BONDS, GUARANTEES, AFFIDAVITS, AND CERTIFICATES REQUIRED BY THE CONTRACT DOCUMENTS. INCLUDE ANY OPERATING AND CLEANING INSTRUCTIONS FOR APPLIANCES, MATERIALS, FINISHES, SYSTEMS, AND EQUIPMENT INSTALLED AS PART OF THE WORK.



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PROJECT

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CLIENT



DIAMONDS DIRECT

PHILLIPS JOB NUMBER 2336402

ISSUE DATE 06/30/2023

DRAWN BY/CHECKED BY DT/SC

DRAWING TITLE ARCHITECTURAL SPECIFICATIONS

SHEET NUMBER

G-9.0

ISSUED FOR CONSTRUCTION

500 PHILADELPHIA BUILDING, 4TH FLOOR
ATLANTA, GEORGIA 30308

DIVISION 02: SITE CONSTRUCTION

SECTION 02 0000 - GENERAL REQUIREMENTS

- A. GENERAL: SITE WORK IS THE RESPONSIBILITY OF THE LANDLORD UNDER SEPARATE PERMIT. THE CONTRACTOR IS TO COORDINATE WITH THE LANDLORD'S CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION AND IDENTIFY, IN WRITING, TO THE OWNER'S PROJECT MANAGER ANY SCOPE THE LANDLORD'S CONTRACTOR HAS NOT COMPLETED, IS IN THE PROCESS OF COMPLETING, OR HAS COMPLETED BUT IS FOUND TO HAVE DEFECTS OR DAMAGE REQUIRING REPAIR.

DIVISION 05: METALS

SECTION 05 4000 - COLD-FORMED METAL FRAMING

- A. GENERAL: PROVIDE COLD-FORMED METAL FRAMING IN ACCORDANCE WITH THE GENERAL STRUCTURAL NOTES AND STRUCTURAL DRAWINGS AND DETAILS.
1. STANDARDS: MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING:
a. AISI S602.2-01 "DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
b. AWS "STRUCTURAL WELDING CODES, D1.3-SHEET STEEL."
c. USG "SA923 DRYWALL/STEEL FRAMED SYSTEMS."
B. MATERIALS:
1. MATERIALS COMPLIANCE: WHEN REQUESTED, SUBMIT ACCEPTABLE DATA DOCUMENTING MATERIALS COMPLIANCE FOR EACH TYPE OF MATERIAL REQUIRED.
2. LOAD-BEARING COLD-FORMED METAL FRAMING: ASTM A1003, GAGE, GRADE, AND TYPE INDICATED.
a. COMPONENTS: PROVIDE SIZES AND SHAPES INDICATED.
b. FINISH: GALVANIZED COMPLYING WITH ASTM A653, MINIMUM G60 COATING.
3. METAL FRAMING: COMPLY WITH ASTM C 754 AND ASTM C 645 FOR MATERIALS AND SIZES.
a. PARTITION METAL FRAMING:
i. STUDS: GALVANIZED STEEL, C-SHAPED, SIZES INDICATED, 20 GAGE "ST20"
ii. RUNNERS: MATCH STUDS, TYPE RECOMMENDED BY STUD MANUFACTURER FOR FLOOR AND CEILING SUPPORT OF STUDS. PROVIDE FLEXIBLE CEILING RUNNERS FOR FULL HEIGHT METAL STUD FRAMED PARTITIONS CONTINUOUS FROM FLOOR TO UNDERSIDE OF STRUCTURAL MEMBERS OR DECK ABOVE.
4. CEILING AND SOFFIT METAL FRAMING/SUSPENSION SYSTEMS:
a. SMALL AREAS: METAL STUD FRAMING OF APPROPRIATE SIZE AND GAGE FOR SPANS INDICATED.
b. LARGE AREAS: FURRING CHANNEL "GRILLAGE" OR "DIRECT SUSPENSION SYSTEM" DESIGNED FOR CONCEALED SUPPORT OF GYPSUM BOARD CEILINGS, OF PROPER TYPE FOR USE INDICATED.
c. FURRING MEMBERS: 20 GAGE, GALVANIZED STEEL SCREW TYPE, HAT-SHAPED FURRING.
5. FABRICATION:
a. COLD-FORMED METAL FRAMING MAY BE PRE-FABRICATED INTO PANELS BEFORE ERECTION. FABRICATE PANELS PLUMB, SQUARE, TRUE TO LINE, AND BRACED AGAINST RACKING WITH JOINTS WELDED.
i. PROVIDE ONE-PIECE FULL-LENGTH COLD-FORMED METAL FRAMING MEMBERS. SPICING NOT PERMITTED. ATTACH AND JOIN OTHER COMPONENTS BY WELDING OR SCREW FASTENERS, AS INDICATED. WIRE TYING OF FRAMING COMPONENTS IS NOT PERMITTED.
b. CUT FRAMING TO FIT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR ANGULAR FIT AGAINST ABUTTING MEMBERS. HOLD MEMBERS SECURELY IN POSITION UNTIL PROPERLY FASTENED.
c. SAW CUT FIELD CUT FRAMING. TORCH CUTTING NOT ACCEPTABLE.

SECTION 05 4000 - COLD-FORMED METAL FRAMING (CONTINUED)

- C. INSTALLATION:
1. ERECTION: ERECT COLD-FORMED METAL FRAMING MEMBERS OF GAGE AND AT SPACING INDICATED ON STRUCTURAL DRAWINGS. ALIGN AND SECURE STUDS TO TOP AND BOTTOM RUNNER TRACKS BY WELDING OR SCREW FASTENERS AT BOTH INSIDE AND OUTSIDE FLANGES.
2. TOLERANCE ACCEPTANCE: INSTALL COLD-FORMED METAL FRAMING MEMBERS AS INDICATED ON THE PLANS. INSTALL TO 1/16" TOLERANCE.
3. INSTALL METAL WALL AND PARTITION FRAMING AND CEILING SUSPENSION/ SUPPORT SYSTEMS IN ACCORDANCE WITH USG BULLETIN SA 923 AND COMPLYING WITH ASTM C754.
a. CEILING SUSPENSION/ SUPPORT SYSTEMS: METAL FURRING SYSTEM/DIRECT SUSPENSION OR STEEL STUD FRAMING SYSTEM.
b. WALL AND PARTITION FRAMING:
i. INSTALL STEEL STUDS PER SCHEDULE OR AT SPACING INDICATED WITH BOTTOM AND TOP RUNNER TRACKS ANCHORED TO SUBSTRATES. PROVIDE FLEXIBLE CEILING RUNNER TRACKS AT FULL HEIGHT PARTITIONS.
ii. TERMINATE PARTITION STUD SYSTEM 4" ABOVE CEILINGS, EXCEPT WHERE INDICATED TO BE EXTENDED TO STRUCTURAL SUPPORT OR ROOF DECK ABOVE. BRACE TOPS OF PARTITION FRAMING TO STRUCTURE OR ROOF DECK AT MAXIMUM 4'-0" ON CENTER SPACING.
iii. FRAME OPENINGS MORE THAN 2'-0" WIDE WITH TWO 20 GAGE STUDS AT EACH JAMB.
iv. COORDINATE THE INSTALLATION OF SUPPLEMENTARY BLOCKING AND NAILERS, PROVIDED UNDER SECTION 06100 WORK, TO SUPPORT SHELVING, MILLWORK, TOILET ACCESSORIES, AND SIMILAR WORK THAT CANNOT BE ADEQUATELY SUPPORTED BY GYPSUM BOARD ALONE.

SECTION 05 5000 - METAL FABRICATIONS

- A. GENERAL: PROVIDE RAILING, MISCELLANEOUS METAL SHAPES AND FABRICATIONS AS REQUIRED AND NOT INCLUDED AS PART OF OTHER SECTIONS, WITH ANCHORS AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION.
B. SUBMITTALS: FURNISH SHOP DRAWINGS FOR CUSTOM FABRICATIONS AND PRODUCT DATA FOR MANUFACTURED ITEMS; PROVIDE TEMPLATES FOR ANCHOR INSTALLATION BY OTHERS.
C. STEEL SHAPES: ASTM A36 STEEL.
D. GROUT: PROVIDE NON-SHRINK, NON-METALLIC, PRE-MIXED, FACTORY PACKAGED, NON-STAINING, NON-CORROSIVE, NON-GASEOUS GROUT; TYPE SPECIFICALLY RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED.
E. FASTENERS AND ROUGH HARDWARE: TYPE REQUIRED FOR SPECIFIC USAGE; PROVIDE ZINC-COATED FASTENERS FOR EXTERIOR USE OR WHERE BUILT INTO EXTERIOR WALLS.
F. WELDING MATERIALS: AWS D1.1, TYPE REQUIRED FOR MATERIALS BEING WELDED.
G. PAINT: PROVIDE PRIMERS AS RECOMMENDED BY PAINT MANUFACTURERS FOR SUBSTRATES AND PAINTS SPECIFIED IN SECTION 09 9000 - PAINTING.
1. GALVANIZING REPAIR PAINT: HIGH ZINC-DUST CONTENT PAINT FOR REGALVANIZING WELDS IN GALVANIZED STEEL.
H. FABRICATION: FABRICATE ITEMS WITH JOINTS NEATLY FITTED AND PROPERLY SECURED; GRIND EXPOSED WELDS CONTINUOUS, SMOOTH AND FLUSH WITH ADJACENT FINISHED SURFACES, AND EASE EXPOSED EDGES TO APPROXIMATE 1/32" UNIFORM RADIUS.
1. MAKE EXPOSED JOINTS FLUSH BUTT TYPE, HAIRLINE JOINTS WHERE MECHANICALLY FASTENED.
2. FIT AND SHOP ASSEMBLE IN LARGEST PRACTICAL SECTIONS FOR DELIVERY.
I. FINISHES: GALVANIZE AND PRIME PAINT EXTERIOR MISCELLANEOUS METAL, PRIME PAINT INTERIOR MISCELLANEOUS METAL; GALVANIZE COATING MINIMUM G90 COATING, GALVANIZED AFTER FABRICATION.
1. CLEAN SURFACES OF RUST, SCALE, GREASE, AND FOREIGN MATTER PRIOR TO APPLYING GALVANIZED OR PAINTED FINISH.
J. INSTALLATION: INSTALL ITEMS SQUARE AND LEVEL, ACCURATELY FITTED AND FREE FROM DISTORTION OR DEFECTS DETRIMENTAL TO APPEARANCE OR PERFORMANCE; ENSURE ALIGNMENT WITH ADJACENT CONSTRUCTION; COORDINATE WITH RELATED WORK TO ENSURE NO INTERRUPTION IN INSTALLATION.
1. SUPPLY ITEMS REQUIRING TO BE CAST INTO OR EMBEDDED IN OTHER MATERIALS TO APPROPRIATE TRADES.
2. AFTER INSTALLATION, TOUCH-UP FIELD WELDS AND SCRATCHED AND DAMAGED SURFACES; USE PRIMER CONSISTENT WITH SHOP COAT OR RECOMMENDED FOR GALVANIZED SURFACES, AS APPLICABLE.

DIVISION 06: WOOD AND PLASTICS

SECTION 06 1000 - ROUGH CARPENTRY

- A. GENERAL: PROVIDE ROUGH CARPENTRY WORK AS SHOWN AND SPECIFIED.
B. STANDARDS: COMPLY WITH REQUIREMENTS OF AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC), AMERICAN PLYWOOD ASSOCIATION (APA), AND APPLICABLE CODE REQUIREMENTS.

- C. LUMBER, BLOCKING, NAILERS, AND SIMILAR MEMBERS: DRESSED, SEASONED DIMENSION LUMBER, S4S, AIR-DRIED, DIMENSIONS INDICATED.
1. GRADE: GRADED BY AN AGENCY CERTIFIED BY NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA). MINIMUM GRADE S-DRY.
2. TYPE: AS RECOMMENDED FOR APPLICATION INVOLVED.
3. MOISTURE CONTENT: MAXIMUM 19% MOISTURE CONTENT COMPLYING WITH P5-20.
4. SPECIES: STANDARD GRADE WESTERN DIMENSION LUMBER, DOUGLAS FIR, OR SOUTHERN PINE.
5. TREATMENT: PROVIDE PRESERVATIVE TREATED LUMBER WHERE INDICATED.
D. PLYWOOD: PROVIDE MINIMUM APA C-D EXTERIOR (CDX) PLYWOOD; STRESS RATED WHERE SPANNING SUPPORTING MEMBERS; MINIMUM 3/4" THICK UNLESS OTHERWISE INDICATED.
1. PLYWOOD STANDARD: COMPLY WITH PS1 (ANSI A199.1).
2. PLYWOOD EDGE: SQUARE
3. PLYWOOD PANEL BOARDS: PROVIDE PANEL BOARDS FOR ELECTRICAL AND COMMUNICATION PANEL BOARDS; APA C-D PLUGGED, INTERIOR TYPE PLYWOOD WITH EXTERIOR GLUE; MINIMUM 1/2" THICK.
a. PROVIDE EXTERIOR GRADE (EXT) PLYWOOD WHERE INDICATED.
b. PROVIDE FIRE-RETARDANT TREATED PLYWOOD WHERE REQUIRED BY BUILDING CODE.
E. ORIENTED STRAND BOARD (OSB): FACTORY GRADE-MARKED, COMPLYING WITH PS-2, SQUARE EDGE, 5/8" THICK UNLESS OTHERWISE INDICATED.
F. TREATED WOOD:
1. PRESSURE TREATMENT: COMPLY WITH APPLICABLE REQUIREMENTS OF AWPA STANDARDS C2 AND C9.
a. PRESSURE PRESERVATIVE TREAT LUMBER WITH WATER-BORNE PRESERVATIVES, ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, TO A MINIMUM RETENTION OF 0.25 PCF.
b. TREAT WOOD BLOCKING, NAILERS, AND SIMILAR MEMBERS IN CONNECTION WITH ROOFING AND FLASHING.
c. TREAT WOOD PLATES, BLOCKING, FURRING, AND SIMILAR CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.
2. FIRE-RETARDANT TREATMENT: COMPLY WITH APPLICABLE REQUIREMENTS OF AWPA STANDARDS C27. IDENTIFY "FIRE-RETARDANT-TREATED PLYWOOD" WITH APPROPRIATE UL CLASSIFICATION MARKING.
a. TREATED MATERIALS SHALL MEET "INTERIOR TYPE A" FR-5 RATING OF NOT MORE THAN 25 FOR FLAME SPREAD, SMOKE DEVELOPED AND FUEL CONTRIBUTED WHEN TESTED IN ACCORDANCE WITH UL 723 OR ASTM E84, WITH NO INCREASE IN FLAME SPREAD AND EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION UPON CONTINUATION OF TEST FOR ADDITIONAL THIRTY (30) MINUTES.
3. MOISTURE CONTENT: KILN-DRY TREATED WOOD TO 19% MOISTURE CONTENT AND DISCARD WARPED AND DAMAGED PIECES.
G. FASTENERS: PROVIDE FASTENERS AS REQUIRED FOR COMPLETE, SECURE INSTALLATION OF ROUGH CARPENTRY; GALVANIZED AT EXTERIOR LOCATIONS AND PRESSURE TREATED WOOD; SIZE AND TYPE TO SUIT APPLICATION; PROVIDE WASHERS FOR NUTS AND BOLTS.
H. INSTALLATION: COMPLY WITH REFERENCED STANDARDS AND APPLICABLE CODE REQUIREMENTS.
1. PLYWOOD: COMPLY WITH RECOMMENDATIONS OF AMERICAN PLYWOOD ASSOCIATION (APA) FOR FABRICATION AND INSTALLATION OF PLYWOOD WORK.
2. PROVIDE WOOD BLOCKING, NAILERS, AND SIMILAR MEMBERS WHERE SHOWN AND WHERE REQUIRED FOR ATTACHMENT OF OTHER WORK AND SURFACE APPLIED ITEMS. ATTACH TO SUBSTRATE AS REQUIRED TO SUPPORT APPLIED LOADING.
3. PLACE MISCELLANEOUS ROUGH CARPENTRY TRUE TO LINES AND LEVELS.

SECTION 06 1000 - ROUGH CARPENTRY (CONTINUED)

- 4. CORRELATE LOCATION SO ATTACHED WORK WILL COMPLY WITH DESIGN REQUIREMENTS AND BE PROPERLY LOCATED.
5. CONSTRUCT MEMBERS OF CONTINUOUS PIECES OF LONGEST PRACTICAL LENGTHS AND SIZES TO MINIMIZE JOINTS.
6. USE ONLY SOUND, SEASONED MATERIALS, FREE OF WARP.
7. FIT CARPENTRY WORK TO OTHER WORK WITH TIGHT CONNECTIONS BETWEEN MEMBERS; SCRIBE AND COPE AS REQUIRED FOR ACCURATE FIT.
8. SECURELY ATTACH CARPENTRY WORK TO SUBSTRATES BY ANCHORING AND FASTENING AS REQUIRED BY RECOGNIZED STANDARDS.
9. PROVIDE WASHERS UNDER BOLT HEADS AND NUTS IN CONTACT WITH WOOD.

DIVISION 07: THERMAL AND MOISTURE PROTECTION

SECTION 07 2100 - BUILDING INSULATION

- A. GENERAL: PROVIDE THERMAL INSULATION WITH ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION.
B. MATERIALS:
1. BATT INSULATION (THERMAL):
a. MANUFACTURER: OWENS CORNING CORPORATION
b. PRODUCT: TYPE I UNFACED THERMAL BATT FIBERGLASS INSULATION
c. R-VALUE: AS INDICATED IN DRAWINGS
d. THICKNESS: AS INDICATED IN DRAWINGS
e. CONTACT: 800-438-7465, WWW.OWENSCORNING.COM
2. BATT INSULATION (SOUND):
a. MANUFACTURER: OWENS CORNING CORPORATION
b. PRODUCT: SOUND ATTENUATION BATT INSULATION
c. STC (ASSEMBLY): 49 (TEST NUMBER TL-99-325)
d. THICKNESS: AS INDICATED IN DRAWINGS
e. CONTACT: 800-438-7465, WWW.OWENSCORNING.COM
3. BATT INSULATION (FIRE RATED) - FOR FIRE RATED EXTERIOR WALL ASSEMBLY SEE A1.16:
a. MANUFACTURER: ROXUL, INC.
b. PRODUCT: ROXUL(R) SAFE MINERAL FIBER INSULATION
c. R-VALUE: COMPLIANT WITH ASTM C518
d. FIRESTOPPING: COMPLIANT WITH ASTM E2307/E119
e. CONTACT: 800-265-6878, WWW.RSPEC.COM
4. RIGID INSULATION (ROOF):
a. MANUFACTURER: DOW CHEMICAL COMPANY
b. PRODUCT: STYROFOAM DECKMATE PLUS FA FLAT AND TAPERED EXTRUDED POLYSTYRENE INSULATION
c. R-VALUE: 5.0 PER INCH OF THICKNESS
d. THICKNESS: 5 IN. MINIMUM THICKNESS AT ANY POINT ON ROOF
e. SLOPE: AS INDICATED IN DRAWINGS
f. CONTACT: 866-583-2583, WWW.DOWBUILDINGMATERIALS.COM
5. RIGID INSULATION (WALL):
a. MANUFACTURER: INSULATION CORPORATION OF AMERICA
b. PRODUCT: TYPE I ICA-LITE EPS INSULATION
c. R-VALUE: 3.85 PER INCH OF THICKNESS
d. COMPRESSIVE STRENGTH: 10 PSI MINIMUM COMPLYING WITH ASTM C 578
e. DENSITY: 1.0 PCF MINIMUM
f. THICKNESS: AS INDICATED IN DRAWINGS
g. CONTACT: 610-791-4200, WWW.INSULATIONCORP.COM
6. VAPOR BARRIER MEMBRANE:
a. PRODUCT: POLYETHYLENE VAPOR BARRIER
b. PERM RATING: 0.13 MAXIMUM
c. MUST COMPLY WITH ASTM D 4397
d. THICKNESS: 6 MILS MINIMUM
e. JOINT TAPE: PRESSURE SENSITIVE TAPE DESIGNED FOR SEALING JOINTS AND PENETRATIONS OF ABOVE AND BELOW GRADE VAPOR BARRIER SHEETS
f. MOUNTING TAPE: DOUBLE-FACED PRESSURE SENSITIVE TAPE SUITABLE FOR MOUNTING VAPOR BARRIERS TO STEEL FRAMING

- C. INSTALLATION:
1. GENERAL:
a. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR CONDITIONS OF INSTALLATION INDICATED. INSTALL INSULATION IN SINGLE LAYER OF REQUIRED THICKNESS OVER ENTIRE AREA TO BE INSULATED. CUT AND FIT TIGHTLY AROUND OBSTRUCTIONS. FILL ALL VOIDS.
b. INSTALL EXTERIOR WALL INSULATION CONTINUOUS BEHIND ELECTRICAL BOXES, CONDUIT, PIPING, AND DUCTWORK. FOUNDATION PERIMETER WALLS AND SLABS.
a. INSTALL RIGID FOAM INSULATION VERTICALLY FROM TOP OF SLAB TO TOP OF FOOTING AND THEN HORIZONTALLY UNDER SLABS, TOWARDS INTERIOR, EXTENDING A MINIMUM 18 IN. FROM EXTERIOR WALLS.
b. PROTECT INSULATION FROM DISPLACEMENT AND DAMAGE DURING BACKFILLING AND SLAB PLACEMENT.
3. EXTERIOR WALLS:
a. INSTALL BATT/BLANKET INSULATION FULL HEIGHT AT EXTERIOR WALL FRAMING. USE BLANKET WIDTHS AND LENGTHS THAT FILL CAVITIES FORMED BY FRAMING MEMBERS AND PROVIDE A FRICTION FIT BETWEEN EDGES OF INSULATION AND FRAMING MEMBERS.
b. PROVIDE GALVANIZED WIRE MESH OR METAL STRAPPING TO PROVIDE SUPPLEMENTARY SUPPORT WHEN REQUIRED TO MAINTAIN INSULATION IN PERMANENT PROPER LOCATION.

- 4. VAPOR BARRIERS:
a. INSTALL A SINGLE LAYER OF VAPOR BARRIER MEMBRANE OVER THE INTERIOR OF EXTERIOR METAL WALL FRAMING AFTER INSTALLATION OF INSULATION. SECURE WITH DOUBLE FACED TAPE AT WALL FRAMING.
b. PROVIDE SINGLE UNSPLICED MATERIAL HEIGHT. HORIZONTAL JOINTS NOT ACCEPTABLE. MINIMIZE VERTICAL JOINTS. LAP VERTICAL JOINTS AND SECURE IN PLACE WITH JOINTS TAPED. PROVIDE TAPE SEALED CONTACT WITH DOOR FRAMES, WINDOW FRAMES, PIPING, CONDUIT, DUCTWORK, REGISTERS, AND THE VAPOR BARRIER.
c. SEAL ALL CUTS AND PENETRATIONS OF VAPOR BARRIER MEMBRANE WITH TAPE BEFORE INSTALLING SURFACE FINISHES.

SECTION 07 6000 - FLASHING AND SHEET METAL

- A. GENERAL: PROVIDE FLASHING AND SHEET METAL, REGLETS, AND ACCESSORIES AS REQUIRED FOR A COMPLETE, WEATHERTIGHT INSTALLATION.
1. STANDARDS: CONFORM TO SMACNA "ARCHITECTURAL SHEET METAL MANUAL."
2. INSTALLATION: PERFORMED UNDER SECTION 075400 WORK.
3. DESIGN REQUIREMENTS: ALLOW FOR MOVEMENT OF COMPONENTS WITHOUT CAUSING BUCKLING, FAILURE OF JOINT SEALS, UNDUE STRESS ON FASTENERS OR OTHER DETRIMENTAL EFFECTS, WHEN SUBJECT TO 100 YEAR SEASONAL TEMPERATURE RANGES.
4. SUBMITTALS: FURNISH PRODUCT DATA FOR MANUFACTURED PRODUCTS.
5. WARRANTY: CORRECT FAILURE OF METAL FLASHING SYSTEM TO RESIST PENETRATION OF WATER AND DAMAGE FROM WIND; WARRANTY PERIOD TWO YEARS.
B. MATERIALS:
1. PRE-MANUFACTURED PERIMETER EDGE METAL AND ACCESSORIES
a. MANUFACTURERS:
i. DURO-LAST / EXCEPTIONAL METALS 2-PIECE COMPRESSION METAL SYSTEM BASE AND COVER MADE OF 24-GAUGE GALVALUME. COVER PROVIDED WITH A KYNAR ARCHITECTURAL FINISH PROVIDING A 35-YEAR FINISH WARRANTY. MEETS ANSI / SPRI ES-1 2003 METHOD R2-2 TESTING REQUIREMENTS. COLOR - AS INDICATED IN DRAWINGS.
ii. DURO-LAST / EXCEPTIONAL METALS VINYL BACKED SCUPPER. SCUPPER PROFILE AND SIZE AS INDICATED. COLLECTOR BOX TO BE MADE OF 24-GAUGE GALVALUME PROVIDED WITH A KYNAR ARCHITECTURAL FINISH PROVIDING A 35-YEAR FINISH WARRANTY. COLOR, PROFILE, AND SIZE AS INDICATED IN DRAWINGS.
iii. DURO-LAST / EXCEPTIONAL METALS DOWNSPOUTS TO BE MADE OF 24-GAUGE GALVALUME PROVIDED WITH A KYNAR ARCHITECTURAL FINISH PROVIDING A 35-YEAR FINISH WARRANTY. COLOR, PROFILE, AND SIZE AS INDICATED IN DRAWINGS WITH STRAP HANGER.
2. FLASHING AND SHEET METAL: MATCH EXISTING, BUT NOT LESS THAN FOLLOWING:
a. GALVANIZED STEEL: ASTM A653 COMMERCIAL QUALITY SHEET STEEL WITH 0.2% COPPER, G90 HOT-DIP GALVANIZED. GAUGE AS INDICATED.
i. SCUPPERS: MINIMUM 16-GAUGE
ii. COPING/WALL CAPS: MINIMUM 18-GAUGE
b. ALUMINUM SHEET: ASTM B209 ALLOY 3003, TEMPER AS REQUIRED FOR FORMING AND PERFORMANCE. THICKNESS AS INDICATED.
i. CONDUCTOR BOXES: MINIMUM 0.040" THICKNESS
ii. DOWNSPOUTS: MINIMUM 0.025" THICKNESS
c. JOINT SEALERS: ONE-COMPONENT SILICONE ELASTOMERIC JOINT SEALANT COMPLYING WITH ASTM C920. COLOR MATCHED TO SHEET METAL FINISH.
i. METAL TO METAL SEALANT: BUTYL TYPE; NON-STAINING, NON-CORROSIVE, NON-SHRINKING, NON-SAGGING, ULTRA-VIOLET AND OZONE RESISTANT.
d. METAL ACCESSORIES: PROVIDE SHEET METAL FASTENERS, CLIPS, ST RAPS, ANCHORING DEVICES AND SIMILAR ACCESSORY UNITS AS REQUIRED FOR INSTALLATION OF WORK, MATCHING OR COMPATIBLE WITH MATERIAL INSTALLED, NON-CORROSIVE, SIZE AND GAUGE AS REQUIRED FOR PERFORMANCE AND ACCEPTABLE TO ARCHITECT.
e. REGLETS: FRV/SPRINGLOK OR MM SYSTEMS/SNAP-TITE REGLETS; FABRICATE OF SAME METAL AS ADJACENT FLASHING AND SHEET METAL.

- C. EXECUTION:
1. PREPARATION: COORDINATE SHEET METAL WORK WITH OTHER WORK FOR THE CORRECT SEQUENCING OF ITEMS WHICH MAKE UP THE ENTIRE ROOF SYSTEM OF WEATHERPROOFING AND RAIN DRAINAGE.
2. INSTALLATION: COMPLY WITH SMACNA "ARCHITECTURAL SHEET METAL MANUAL" RECOMMENDATIONS, DRAWING DETAILS, AND APPROVED SHOP DRAWINGS FOR INSTALLATION OF THE WORK.
a. ANCHOR SHEET METAL ITEMS SECURELY IN PLACE BY METHODS INDICATED, PROVIDING FOR THERMAL EXPANSION. CONCEAL FASTENERS AND EXPANSION PROVISIONS WHENEVER POSSIBLE. INSTALL JOINT SEALANTS WHERE REQUIRED.
b. SET UNITS TRUE TO LINES AND LEVELS INDICATED. INSTALL WORK WITH SEALED LAPS, JOINTS, AND SEAMS THAT WILL BE PERMANENTLY WATERTIGHT AND WEATHERPROOF. 3RD FLANGES OF SHEET METAL WORK IN THICK COAT OF ROOFING CEMENT OR SEALANT COMPATIBLE WITH ROOFING MEMBRANE.
c. SEPARATE SHEET METAL WORK FROM DISSIMILAR METALS AND TREATED WOOD MATERIALS. PROVIDE ROSIN-SIZED PAPER SLIPSHEET OVER TREATED WOOD.
d. FABRICATE, SUPPORT, AND ANCHOR CONDUCTOR BOXES AND DOWNSPOUTS TO WITHSTAND THERMAL EXPANSION, STRESSES, AND FULL LOADING BY ICE OR WATER WITHOUT DAMAGE, DETERIORATION, OR LEAKAGE.

SECTION 07 8000 - FIRESTOPPING

- A. GENERAL: PROVIDE PENETRATION-TYPE FIRESTOPPING FOR TIME-RATED FLOOR, WALL, AND PARTITION ASSEMBLIES CAPABLE OF PREVENTING PASSAGE OF FLAME, SMOKE, AND HOT GASES.
B. CODES: CONFORM TO APPLICABLE CODE REQUIREMENTS FOR BOTH F AND T RATINGS.
C. STANDARDS: PASS ASTM E814 THROUGH-PENETRATION FIRE STOPS, ASTM E119 FIRE TESTS AND ASTM E84 FLAME SPREAD/SMOKE CONTRIBUTION MAXIMUM 25/25.
D. MANUFACTURERS: 3M/FIRE BARRIER, HILTI/FIRESTOP SYSTEMS, OR APPROVED EQUAL.
E. GENERAL: CHOOSE PRODUCTS AND METHODS MEETING APPLICABLE CODES AND SPECIFICATION REQUIREMENTS FOR EACH FIRESTOPPING APPLICATION, SUBJECT TO ARCHITECT'S ACCEPTANCE.
F. FIRESTOPPING MATERIALS: FURNISH MATERIALS FOR PENETRATIONS IN TIME-RATED FLOOR, WALL, AND PARTITION ASSEMBLIES CAPABLE OF PREVENTING PASSAGE OF FLAME, SMOKE, AND HOT GASES.
1. PENETRATION TEST: FURNISH MATERIALS PASSING ASTM E814 FOR PENETRATION FIRE STOPPING INDICATING MAINTENANCE OF TIME-RATED ADJACENT ASSEMBLIES.
2. FIRESTOPPING: MAINTAIN FIRE RATING OF ASSEMBLY IN WHICH FIRESTOPPING IS INSTALLED, SUCH AS FLOOR, PARTITION, OR WALL, IN ACCORDANCE WITH ASTM E119 TESTS.
G. INSTALLATION: INSTALL IN ACCORDANCE MANUFACTURER RECOMMENDATIONS AND FIRE TEST RESULTS AS REQUIRED TO PROVIDE REQUIRED FIRE RATINGS.
1. FIELD INSPECTIONS: MAINTAIN COPY OF MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS AT EACH WORK AREA.



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PROJECT

DIAMONDS DIRECT
2600 N Mayfair RD
Wauwatosa, WI 53226

CLIENT



DIAMONDS DIRECT

PHILLIPS JOB NUMBER

ISSUE DATE

DRAWN BY/CHECKED BY

DRAWING TITLE

ARCHITECTURAL SPECIFICATIONS

SHEET NUMBER

G-9.1

500 PLEASANT HARBOR ROAD
BUILDING A, SUITE 450
ATLANTA, GEORGIA 30324

ISSUED FOR CONSTRUCTION

SECTION 07 9000 - JOINT SEALERS

- A. GENERAL:
 1. PROVIDE JOINT SEALERS AS SHOWN AND SPECIFIED.
 2. COMPLY WITH ASTM C920 REQUIREMENTS.
 3. INSTALLER QUALIFICATIONS: FIRM WITH MINIMUM FIVE YEAR'S SUCCESSFUL EXPERIENCE ON PROJECTS OF SIMILAR TYPE AND SIZE, USING SPECIFIED PRODUCTS.
 4. SUBMITTALS: FURNISH PRODUCT DATA AND SAMPLES OF EXPOSED JOINT SEALERS IN REQUIRED COLORS.
 5. WARRANTY: REPAIR OR REPLACE JOINT SEALERS WHICH FAIL TO PERFORM AS INTENDED, BECAUSE OF LEAKING, CRUMBLING, HARDENING, SHRINKAGE, BLEEDING, SAGGING, STAINING AND LOSS OF ADHESION; WARRANTY PERIOD TWO YEARS.
- B. MATERIALS:
 1. EXTERIOR NON-TRAFFIC JOINTS: GE/SILPRUF, DOW/790-795, OR PECORA/854, LOW MODULUS SILICONE SEALANT.
 2. TRAFFIC BEARING JOINTS: MAMECO/VULKEM 245, OR PECORA/NR-200 UREXPAN, MULTI-COMPONENT POLYURETHANE, SELF-LEVELING JOINT SEALER.
 3. MILDEW-RESISTANT SANITARY SEALANTS: GE/SANITARY SEALANT, DOW/BATHTUB CAULK, OR PECORA/863 #345 WHITE; PROVIDE AT INTERIOR AREAS WHERE SEALANT WILL BE EXPOSED TO WATER.
 4. FIRE-STOPPING SEALANTS: 3M FIRE PROTECTION PRODUCTS, 800-328-1687, INTERNET WWW.3M.COM/FIRESTOP
 - a. "3M FIRE BARRIER CP 25WB+ CAULK" OR APPROVED EQUAL
 5. GENERAL INTERIOR JOINT SEALER: PECORA/AC-20 OR SONNEBORN/SONOLAC, ACRYLIC OR LATEX EMULSION.
 6. MISCELLANEOUS MATERIALS: PRIMERS, SEALERS, JOINT CLEANERS, BOND BREAKER TAPE, AND SEALANT BACKER RODS AS RECOMMENDED BY SEALANT MANUFACTURER FOR APPLICATIONS INDICATED.
 - a. OVERSIZE BACKER ROD MINIMUM 30% TO 50% OF JOINT OPENING.
 7. COLORS: AS INDICATED OR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
 8. JOINT BACKING: NON-ABSORPTIVE, NON-STAINING COMPRESSIBLE, NON-GASSING, POLYETHYLENE FOAM BACKER ROD COMPATIBLE WITH JOINT SEALANTS.
- C. EXECUTION:
 1. PREPARATION: CLEAN AND PREPARE JOINTS PRIOR TO INSTALLING SEALERS.
 - a. WIPE SHIPPING OILS FROM SURFACES TO BE SEALED. REMOVE PROTECTIVE FILMS AND/OR INSTALL JOINT BACKER ROD IF JOINT IS LARGER THAN 1/4 INCH WIDTH.
 2. INSTALLATION: COMPLY WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND ASTM C 1193.
 - a. APPLY SEALANTS IN A UNIFORM, CONTINUOUS BEAD WITHOUT GAPS OR AIR POCKETS. HAND TOoled AND FINISH ALL JOINTS SO THAT A SMOOTH, LIP-FREE UNIFORM LINE IS CREATED ALONG THE SUBSTRATE BEING SHOT. REMOVE ANY EXCESS MATERIALS FROM TOOLED EDGES AND ENDS OF JOINT.
 - b. INSTALL JOINT SEALANTS TO A DEPTH NO MORE THAN 1/2 THE WIDTH OF THE JOINT.
 - c. INSTALL SEALANTS BY PROVEN TECHNIQUES THAT RESULT IN SEALANTS DIRECTLY CONTACTING AND FULLY WETTING JOINT SUBSTRATES, COMPLETELY FILLING RECESSES PROVIDED FOR EACH JOINT CONFIGURATION, AND PROVIDING UNIFORM, CROSS-SECTIONAL SHAPES AND DEPTHS RELATIVE TO JOINT WIDTHS WHICH ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY.
 - d. IMMEDIATELY AFTER SEALANT APPLICATION AND PRIOR TO TIME SKINNING OR CURING BEGINS, TOOL SEALANTS TO FORM SMOOTH, UNIFORM BEADS OF CONFIGURATION INDICATED TO ELIMINATE AIR POCKETS, AND TO ENSURE CONTACT AND ADHESION OF SEALANT WITH SIDES OF JOINT. REMOVE EXCESS SEALANTS FROM SURFACES ADJACENT TO JOINT. DO NOT USE TOOLING AGENTS WHICH DISCOLOR SEALANTS OR ADJACENT SURFACES OR ARE NOT APPROVED BY SEALANT MANUFACTURER.
 - e. CLEAN OFF EXCESS SEALANTS OR SEALANT SMears ADJACENT TO JOINTS AS WORK PROGRESSES BY METHODS AND WITH CLEANING MATERIALS APPROVED BY MANUFACTURERS OF JOINT SEALERS AND OF PRODUCTS IN WHICH JOINTS OCCUR.
 3. APPLICATIONS:
 - a. FIRE RATED WALLS: PROVIDE A CONTINUOUS BEAD AT WALL /CEILING PENETRATIONS IN RATED WALLS.
 - b. EXTERIOR JOINTS:
 - i. PROVIDE A CONTINUOUS BEAD OF SEALANT AND BACKER ROD AT THE FOLLOWING LOCATIONS (COLORS TO BE MATCHED TO ADJACENT SURFACES):
 - STUCCO/EIPS JOINTS TO ABUTTING SURFACES.
 - BRICK/WALK/CONCRETE EXPANSION JOINTS.
 - SIDEWALK/CONCRETE EXPANSION JOINTS.
 - ii. PROVIDE A CONTINUOUS BEAD OF SEALANT AT THE FOLLOWING LOCATIONS:
 - ALUMINUM FRAME PERIMETERS
 - HOLLOW METAL DOOR FRAMES.

DIVISION 08: DOORS AND WINDOWS

SECTION 08 7100 - DOOR HARDWARE

- A. GENERAL: PROVIDE DOOR HARDWARE AS SHOWN AND SPECIFIED.
 1. STANDARDS: MATERIALS AND INSTALLATION SHALL CONFORM TO THE FOLLOWING:
 - a. ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.
 - b. ANSII/BHMA A156 SERIES BUILDERS HARDWARE
 2. QUALITY ASSURANCE:
 - a. CODES AND STANDARDS: PROVIDE HARDWARE COMPLYING WITH LOCAL BUILDING CODE REQUIREMENTS AND THE TENANT'S STANDARDS FOR KEYING AND SECURITY SYSTEMS.
 - b. PROJECT SCHEDULING: PERFORMED BY AN ARCHITECTURAL HARDWARE CONSULTANT (AHC).
 - c. PACKAGE EACH ITEM OF HARDWARE AND EACH LOCKSET, COMPLETE WITH ALL SCREWS, ANCHORS, INSTALLATION INSTRUCTIONS AND TEMPLATES. IDENTIFY PACKAGE INDEXING WITH CORRESPONDING ITEM NUMBER OF THE HARDWARE SCHEDULE.
 - d. AFTER HARDWARE SCHEDULE ACCEPTANCE, PROVIDE NECESSARY TEMPLATES OR PHYSICAL HARDWARE TO REQUIRED TRADES FOR CUTTING, REINFORCING, OR PREPARING THEIR PRODUCTS TO RECEIVE HARDWARE. FURNISH TEMPLATES TO METAL DOOR MANUFACTURERS.
- B. MATERIALS:
 1. NO SUBSTITUTIONS ALLOWED. REQUIREMENTS FOR MANUFACTURER, DESIGN, GRADE, FUNCTION, FINISH, SIZE AND OTHER DISTINCTIVE QUALITIES OF EACH TYPE OF DOOR HARDWARE ARE INDICATED ON THE DRAWINGS.
 2. REVIEW THE KEYING SYSTEM WITH THE TENANT AND PROVIDE THE TYPE REQUIRED.
- C. INSTALLATION
 1. INSTALL EACH HARDWARE ITEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. SECURELY FASTEN ALL ATTACHED PARTS. FIT FACES OF MORTISED PARTS SNUG AND FLUSH. VERIFY OPERATING PARTS MOVE FREELY AND SMOOTHLY WITHOUT BINDING OR STICKING, WITHOUT EXCESSIVE CLEARANCE.
 2. SET UNITS LEVEL, PLUMB AND TRUE TO LINE AND LOCATION. ADJUST AND REINFORCE ATTACHMENT SUBSTRATE AS REQUIRED FOR PROPER INSTALLATION AND OPERATION. DRILL AND COUNTERSINK UNITS THAT ARE NOT FACTORY PREPARED FOR ANCHORAGE FASTENERS. SPACE FASTENERS AND ANCHORS IN ACCORDANCE WITH INDUSTRY STANDARDS.
 3. MOUNT HARDWARE UNITS AT HEIGHTS INDICATED IN DHI "RECOMMENDED LOCATIONS FOR BUILDERS HARDWARE", UNLESS OTHERWISE REQUIRED TO COMPLY WITH REQUIREMENTS OF GOVERNING CODES AND REGULATIONS. CONFORM TO ANSI A117.1 AND ADAAG GUIDELINES FOR ACCESSIBILITY.
 - a. TOP BUTTS: 5 INCHES; TOP OF BUTT FROM HEAD OF FRAME.
 - b. MIDDLE BUTTS: 3'-2"; CENTERLINE FROM FINISH FLOOR.
 - c. BOTTOM BUTTS: 5 INCHES; FINISH FLOOR TO BOTTOM OF BUTT.
 - d. LOCKS: CENTERLINE FROM FINISH FLOOR PER HARDWARE SCHEDULE.
 - e. KNOBS: 3'-2"; CENTERLINE FROM FINISH FLOOR.
 - f. PULLS: CENTERLINE FROM FINISH FLOOR PER HARDWARE SCHEDULE.
 - g. PUSHES: CENTERLINE FROM FINISH FLOOR PER HARDWARE SCHEDULE.

SECTION 09 2600 - GYPSUM BOARD SYSTEMS

- A. GENERAL: PROVIDE GYPSUM BOARD SYSTEMS AS SHOWN AND SPECIFIED.
 1. STANDARDS: MATERIALS AND INSTALLATION SHALL CONFORM TO THE FOLLOWING:
 - A. GA 214-90 "LEVELS OF GYPSUM BOARD FINISH."
 - B. GA-216 "SPECIFICATIONS FOR APPLICATION AND FINISHING OF GYPSUM BOARD."
 - C. USG "SA923 DRYWALL/STEEL FRAMED SYSTEMS."

A. MATERIALS:

1. MANUFACTURER: UNITED STATES GYPSUM CO. (USG), (800) 874-4968, INTERNET WWW.USG.COM.
2. METAL FRAMING: COMPLY WITH ASTM C 754 AND ASTM C 645 FOR MATERIALS AND SIZES.
 - a. PARTITION METAL FRAMING:
 - i. STUDS: GALVANIZED STEEL, C-SHAPED, SIZES INDICATED, 20 GAGE "ST20"
 - ii. RUNNERS: MATCH STUDS, TYPE RECOMMENDED BY STUD MANUFACTURER FOR FLOOR AND CEILING SUPPORT OF STUDS. PROVIDE FLEXIBLE CEILING RUNNERS FOR FULL HEIGHT METAL STUD FRAMED PARTITIONS CONTINUOUS FROM FLOOR TO UNDERSIDE OF STRUCTURAL MEMBERS OR DECK ABOVE.
3. CEILING AND SOFFIT METAL FRAMING/SUSPENSION SYSTEMS:
 - a. SMALL AREAS: METAL STUD FRAMING OF APPROPRIATE SIZE AND GAGE FOR SPANS INDICATED.
 - b. LARGE AREAS: FURRING CHANNEL "GRILLAGE" OR "DIRECT SUSPENSION SYSTEM" DESIGNED FOR CONCEALED SUPPORT OF GYPSUM BOARD CEILINGS, OF PROPER TYPE FOR USE INDICATED.
 - c. FURRING MEMBERS: 20 GAGE, GALVANIZED STEEL SCREW TYPE, HAT-SHAPED FURRING.
4. GYPSUM BOARD PANELS: USG "SHEETROCK" COMPLYING WITH ASTM C1396, TAPERED EDGE FACE PANELS, 48" WIDE, IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END JOINT CONDITIONS, 5/8" THICK.
 - a. GENERAL USE PANELS: SHEETROCK REGULAR PANELS.
 - b. FIRE RATED PANELS: SHEETROCK FIRECORE CORE PANELS.
 - c. WATER-RESISTANT: PANELS: SHEETROCK HUMITEK PANELS.
5. CEMENT BOARD: USG DUROCK CEMENT BOARD, 5/8" THICK X MANUFACTURER'S STANDARD WIDTH, COMPLYING WITH ANSI A118.9, AND IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS.
6. FASTENERS: USG TYPE "S" BUGLE HEAD SCREWS FOR METAL FRAMING, USG TYPE "W" BUGLE HEAD SCREWS FOR WOOD FRAMING, MANUFACTURER'S RECOMMENDED LENGTH FOR PANEL THICKNESS INDICATED.
7. TRIM: GALVANIZED STEEL WITH KNURLED AND PERFORATED FLANGES. USG DUR-A-BEAD CORNER BEAD, NO. 200B CASING BEAD METAL TRIM, NO. 093 CONTROL JOINT.
8. JOINT TREATMENT: USG JOINT TREATMENT SYSTEM, UTILIZING "SHEETROCK BRAND JOINT TAPE", AND "SHEETROCK BRAND SETTING-TYPE (DURABOND)" COMPOUND FOR TAPE BEDDING AND TOPPING.
9. ADHESIVES: USG "SHEETROCK BRAND SETTING-TYPE (DURABOND) 210 OR 90" COMPOUND FOR TAPE BEDDING AND TOPPING.
10. ACOUSTICAL SEALANT: USG SHEETROCK ACOUSTICAL SEALANT, WATER-BASE TYPE, GUNNABLE SEALANT FOR SEALING SOUND-RATED GYPSUM BOARD SYSTEMS.

C. INSTALLATION

1. INSTALL METAL WALL AND PARTITION FRAMING AND CEILING SUSPENSION/ SUPPORT SYSTEMS IN ACCORDANCE WITH USG BULLETIN SA 923 AND COMPLYING WITH ASTM C754.
 - a. CEILING SUSPENSION/ SUPPORT SYSTEMS: METAL FURRING SYSTEM/DIRECT SUSPENSION OR STEEL STUD FRAMING SYSTEM.
 - b. WALL AND PARTITION FRAMING:
 - i. INSTALL STEEL STUDS PER SCHEDULE OR AT SPACING INDICATED WITH BOTTOM AND TOP RUNNER TRACKS ANCHORED TO SUBSTRATES. PROVIDE FLEXIBLE CEILING RUNNER TRACKS AT FULL HEIGHT PARTITIONS.
 - ii. TERMINATE PARTITION STUD SYSTEM 4" ABOVE CEILINGS, EXCEPT WHERE INDICATED TO BE EXTENDED TO STRUCTURAL SUPPORT OR ROOF DECK ABOVE. BRACE TOPS OF PARTITION FRAMING TO STRUCTURE OR ROOF DECK AT MAXIMUM 4'-0" ON CENTER SPACING.
 - iii. FRAME OPENINGS MORE THAN 2'-0" WIDE WITH TWO 20 GAGE STUDS AT EACH JAMB.
 - iv. COORDINATE THE INSTALLATION OF SUPPLEMENTARY BLOCKING AND NAILERS, PROVIDED UNDER SECTION 06100 WORK, TO SUPPORT SHELVING, MILLWORK, TOILET ACCESSORIES, AND SIMILAR WORK THAT CANNOT BE ADEQUATELY SUPPORTED BY GYPSUM BOARD ALONE.
2. APPLICATION AND FINISHING: INSTALL AND FINISH GYPSUM BOARD TO COMPLY WITH ASTM C 840 AND GYPSUM ASSOCIATION GA 216 "RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM BOARD."
 - a. SCREW FASTEN ALL GYPSUM BOARD PANELS.
 - b. METAL TRIM: INSTALL METAL CORNER BEADS AT EXTERNAL CORNERS OF GYPSUM BOARD WORK AND METAL TRIM WHEREVER EDGE OF GYPSUM BOARD WOULD BE EXPOSED. USE LONGEST PRACTICAL LENGTHS.
 - c. CONTROL JOINTS: LOCATE AND INSTALL CONTROL JOINTS IN ACCORDANCE WITH USG BULLETIN SA923 "GOOD DESIGN PRACTICE" RECOMMENDATIONS.
3. ACOUSTICAL TREATMENT:
 - a. WHERE SOUND-ATTENUATION INSULATION IS INDICATED, SEAL GYPSUM BOARD CONSTRUCTION AT PERIMETERS, CONTROL JOINTS, JUNCTION BOXES, OPENINGS AND PENETRATIONS WITH A CONTINUOUS BEAD OF ACOUSTICAL SEALANT INCLUDING A BEAD AT BOTH FACES OF PARTITIONS.
 - b. INSTALL SOUND ATTENUATION INSULATION AT SCHEDULED PARTITIONS AND CEILINGS. INSTALL INSULATION IN SINGLE LAYER OF REQUIRED THICKNESS. EXTEND FULL THICKNESS OVER ENTIRE AREA TO BE INSULATED. CUT AND FIT TIGHT AROUND OBSTRUCTIONS. FILL ALL VOIDS.
 - c. AT OPENINGS AND CUTOUTS, FILL OPEN SPACES BETWEEN EDGES OF GYPSUM BOARD AND FIXTURES, CABINETS, DUCTS, AND OTHER FLUSH OR PENETRATING ITEMS, WITH CONTINUOUS BEAD OF ACOUSTICAL SEALANT.
 - d. SEAL SIDES AND BACKS OF ELECTRICAL BOXES TO COMPLETELY CLOSE UP OPENINGS AND JOINTS WITH A BEAD OF ACOUSTICAL TREATMENT.
4. FINISHING:
 - a. COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR MIXING, HANDLING, AND APPLICATION OF MATERIALS. APPLY TREATMENT AT JOINTS BOTH DIRECTIONS, AT FLANGES OF TRIM ACCESSORIES, PENETRATIONS OF GYPSUM BOARD (ELECTRICAL BOXES, PIPING, AND SIMILAR WORK), FASTENER HEADS, SURFACE DEFECTS, AND ELSEWHERE AS INDICATED. APPLY IN MANNER THAT WILL RESULT IN EACH OF THESE ITEMS BEING CONCEALED WHEN APPLIED DECORATION HAS BEEN COMPLETED.
 - b. APPLY JOINT TAPE AT JOINTS BETWEEN GYPSUM BOARDS, EXCEPT WHERE TRIM ACCESSORIES ARE INDICATED.
 - c. INTERIOR EXPOSED GYPSUM BOARD FINISH: LEVEL 5 FINISH.
 - i. LOCATIONS: TYPICAL FOR ALL WALLS AND CEILINGS, UNLESS OTHERWISE INDICATED
 - ii. FINISH INTERIOR GYPSUM BOARD BY APPLYING THE FOLLOWING JOINT COMPOUNDS IN FOUR COATS (NOT INCLUDING PREFILL OF OPENINGS IN BASE), AND SAND BETWEEN COATS AND AFTER LAST COAT:
 - iii. EMBEDDING AND FIRST COAT: SETTING-TYPE JOINT OR TAPING COMPOUND.
 - iv. FILL (SECOND) COAT: SETTING-TYPE TOPPING COMPOUND.
 - v. FILL (THIRD) COAT: SETTING-TYPE TOPPING COMPOUND.
 - vi. FINISH (FOURTH) COAT: SKIM COAT ENTIRE SURFACE.
 - d. INTERIOR CONCEALED GYPSUM BOARD: LEVEL 3 PARTIAL FINISHING.
 - i. FINISH CONCEALED GYPSUM BOARD CONSTRUCTION THAT REQUIRES FINISHING SAME AS EXPOSED GYPSUM BOARD CONSTRUCTION, EXCEPT THE THIRD COAT AND SANDING CAN BE OMITTED.

SECTION 09 2816 - GLASS-MAT FACED GYPSUM BACKING BOARDS

- A. GENERAL: PROVIDE FIBERGLASS-MAT FACED, MOISTURE-RESISTANT GYPSUM BACKER BOARD AS SHOWN AND SPECIFIED.
 1. STANDARDS: MATERIALS AND INSTALLATION SHALL CONFORM TO THE FOLLOWING:
 - a. ASTM INTERNATIONAL (ASTM):
 - i. ASTM C473 STANDARD TEST METHODS FOR PHYSICAL TESTING OF GYPSUM PANEL PRODUCTS.
 - ii. ASTM C518 STANDARD TEST METHOD FOR STEADY-STATE THERMAL TRANSMISSION PROPERTIES BY MEANS OF THE HEAT FLOW METER APPARATUS.
 - iii. ASTM C1002 STANDARD SPECIFICATION FOR STEEL SELF-PIERCING TAPPING SCREWS FOR THE APPLICATION OF GYPSUM PANEL PRODUCTS OR METAL PLASTER BASES TO WOOD STUDS OR STEEL STUDS.
 - iv. ASTM C1177 STANDARD SPECIFICATION FOR GLASS MAT GYPSUM SUBSTRATE FOR USE AS SHEATHING.
 - v. ASTM C1280 STANDARD SPECIFICATION FOR APPLICATION OF GYPSUM SHEATHING.
 - vi. ASTM D3273 STANDARD TEST METHOD FOR RESISTANCE TO GROWTH OF MOLD ON THE SURFACE OF INTERIOR COATINGS IN AN ENVIRONMENTAL CHAMBER.
 - vii. ASTM D6329 STANDARD GUIDE FOR DEVELOPING METHODOLOGY FOR EVALUATING THE ABILITY OF INDOOR MATERIALS TO SUPPORT MICROBIAL GROWTH USING STATIC ENVIRONMENTAL CHAMBERS.
 - viii. ASTM E72 STANDARD TEST METHODS OF CONDUCTING STRENGTH TESTS OF PANELS FOR BUILDING CONSTRUCTION.
 - ix. ASTM E96 STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS.
 - x. ASTM C1396 STANDARD SPECIFICATION FOR GYPSUM BOARD
 - xi. ASTM E 136 STANDARD TEST METHOD FOR BEHAVIOR OF MATERIALS IN A VERTICAL TUBE FURNACE AT 750°C
 - xii. ASTM E 84 STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS
 - b. GYPSUM ASSOCIATION (GA):
 - i. GA-253 APPLICATION OF GYPSUM SHEATHING.
 - c. WARRANTY:
 - i. PROVIDE PRODUCTS THAT OFFER TWELVE MONTHS OF COVERAGE AGAINST IN-PLACE EXPOSURE DAMAGE (DELAMINATION, DETERIORATION AND DECAF) COMMENCING WITH THE DATE OF INSTALLATION OF THE PRODUCT IN SUCH STRUCTURE.
 - ii. FIVE YEARS AGAINST MANUFACTURING DEFECTS FROM THE DATE OF PURCHASE OF THE PRODUCT FOR INSTALLATION
 - iii. 12 YEARS AGAINST MANUFACTURING DEFECTS WHEN USED AS A SUBSTRATE IN ARCHITECTURALLY SPECIFIED EIFS.

B. MATERIALS:

1. MANUFACTURER: GEORGIA-PACIFIC GYPSUM LLC, (800) 225-6119, WWW.BUILDGP.COM
2. FIBERGLASS-MAT FACED GYPSUM BACKING BOARD: DENSGLOSS FIREGUARD SHEATHING COMPLYING WITH ASTM C1177, TYPE X, SQUARE EDGES, 4 FT WIDE IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END JOINT CONDITIONS, 5/8" THICK. SURFACING: COATED FIBERGLASS MAT ON FACE, BACK, AND LONG EDGES.
 - a. GENERAL USE PANELS: 5/8" DENSGLOSS FIREGUARD SHEATHING, GEORGIA-PACIFIC GYPSUM
3. FASTENERS: ASTM C1002, CORROSION RESISTANT TREATED.

C. EXAMINATION:

1. INSPECTION: VERIFY THAT PROJECT CONDITIONS AND SUBSTRATES ARE ACCEPTABLE, TO THE INSTALLER, TO BEGIN INSTALLATION OF WORK OF THIS SECTION.

D. INSTALLATION:

1. INSTALL DENSSHIELD AT ALL TILE WALLS AS INDICATED ON DRAWINGS.
2. GENERAL: INSTALL IN ACCORDANCE WITH GA-253, ASTM C1280 AND THE MANUFACTURER'S RECOMMENDATIONS.
 - a. MANUFACTURER'S RECOMMENDATIONS: REFER TO CURRENT "PRODUCT CATALOG", GEORGIA PACIFIC GYPSUM

E. PROTECTION:

1. PROTECT GYPSUM BOARD INSTALLATIONS FROM DAMAGE AND DETERIORATION UNTIL LDATE OF SUBSTANTIAL COMPLETION.

SECTION 09 3000 - PORCELAIN TILE

- A. GENERAL: PROVIDE PORCELAIN TILE FLOORING AS SHOWN AND SPECIFIED.
 1. STANDARDS: MATERIALS AND INSTALLATION SHALL CONFORM TO THE FOLLOWING:
 - a. ANSI A137.1 "CERAMIC TILE"
 - b. TCA "HANDBOOK FOR CERAMIC TILE INSTALLATION."

B. PERFORMANCE REQUIREMENTS:

1. STATIC COEFFICIENT OF FRICTION: TILE ON WALKWAY SURFACES SHALL BE PROVIDED WITH THE FOLLOWING VALUES AS DETERMINED BY TESTING IN CONFORMANCE WITH ASTM C1028.
 - a. LEVEL SURFACES AND STEP TREADS: MINIMUM OF 0.6 (WET)
 - b. RAMP SURFACES: MINIMUM OF 0.8 (WET)

C. QUALITY ASSURANCE:

1. INSTALLER QUALIFICATIONS: COMPANY SPECIALIZING IN PERFORMING THE WORK IN THIS SECTION WITH MINIMUM TWO (2) YEAR'S EXPERIENCE.
2. SINGLE SOURCE RESPONSIBILITY: OBTAIN EACH TYPE AND COLOR OF TILE FROM A SINGLE SOURCE. OBTAIN EACH TYPE AND COLOR OF MORTAR, ADHESIVE, AND GROUT FROM THE SAME SOURCE.

D. DELIVERY, STORAGE, AND HANDLING:

1. DELIVER AND STORE PRODUCTS IN MANUFACTURER'S UNOPENED PACKAGING UNTIL READY FOR INSTALLATION.
2. PROTECT ADHESIVES AND LIQUID ADDITIVES FROM FREEZING OR OVERHEATING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. STORE TILE AND SETTING MATERIALS ON ELEVATED PLATFORMS, UNDER COVER, AND IN A DRY LOCATION AND PROTECT FROM CONTAMINATION, DAMPNESS, FREEZING, OR OVERHEATING.

SECTION 09 3000 - PORCELAIN TILE (CONTINUED)

E. ENVIRONMENTAL REQUIREMENTS:

1. DO NOT INSTALL ADHESIVES IN AN UNVENTILATED ENVIRONMENT.
2. MAINTAIN AMBIENT AND SUBSTRATE TEMPERATURE OF 50 DEGREES F (10 DEGREES C) DURING TILING AND FOR A MINIMUM OF SEVEN (7) DAYS AFTER COMPLETION.

F. EXTRA MATERIALS:

1. PROVIDE FOR OWNER'S USE A MINIMUM OF TWO (2) PERCENT OF THE PRIMARY SIZES AND COLORS OF TILE SPECIFIED, BOXED, AND CLEARLY LABELED.

G. MATERIALS:

1. MANUFACTURERS:
 - a. PORCELAIN TILE:
 - i. DAL TILE, (877) 556-5728, WWW.DAL TILE.COM
 - ii. SANTA ROSA MARBLE, (305) 591-3744, WWW.SANTAROSAMARBLE.COM
 - iii. OTHER AS SELECTED BY OWNER.
 - b. WATERPROOFING:
 - i. SETTING AND GROUTING MATERIALS AND TILE BASE MEMBRANE: MAPEI, (800) 992-6273, WWW.MAPEI.COM
2. TILE:
 - a. GENERAL: PROVIDE TILE THAT COMPLIES WITH ANSI A137.1 FOR TYPES, COMPOSITIONS, AND OTHER CHARACTERISTICS INDICATED. PROVIDE TILE IN THE LOCATIONS AND OF THE TYPES, COLORS, AND PATTERN INDICATED ON THE DRAWINGS. TILE SHALL ALSO BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING:
 - i. FACTORY BLENDING: FOR TILE EXHIBITING COLOR VARIATIONS WITHIN THE ACCEPTABLE RANGES, BLEND TILE IN FACTORY AND PACKAGE TILE SO TILE TAKEN FROM ONE PACKAGE SHOWS THE SAME RANGE OF COLORS AS THOSE TAKEN FROM OTHER PACKAGES.
 - ii. FACTORY APPLIED TEMPORARY PROTECTIVE COATINGS: WHERE INDICATED UNDER TILE TYPE, PROTECT EXPOSED SURFACES OF TILE AGAINST ADHERENCE OF MORTAR AND GROUT BY PRE-COATING WITH A CONTINUOUS FILL OF PETROLEUM PARAFFIN WAX APPLIED HOT. DO NOT COAT UNEXPOSED TILE SURFACES.
 - b. EXTERIOR PORCELAIN TILE:
 - i. EXHIBITION DARK GREY EX04 TEXTURED COLORBODY PORCELAIN, SIZE: 12"x24"
 - ii. OTHER AS SELECTED BY OWNER.
3. SETTING ADHESIVE: MAPEI, ULTRAFLIX 3, COLOR: GRAY
4. GROUT: MAPEI, KERAPOXY IEG CO, COLOR: COORDINATE WITH OWNER

H. INSTALLATION

1. EXAMINATION:
 - a. VERIFY THAT WALL AND SUB-FLOOR SURFACES ARE FREE OF DUST, FREE OF SUBSTANCES WHICH WOULD IMPAIR BONDING OF SETTING MATERIALS TO SUB-FLOOR SURFACES, AND ARE SMOOTH AND FLAT WITH TOLERANCES SPECIFIED IN ANSI A137.1.
 - b. VERIFY THAT CONCRETE SUB-FLOOR SURFACES ARE READY FOR TILE INSTALLATION BY TESTING FOR MOISTURE EMISSION RATE AND ALKALINITY; OBTAIN INSTRUCTIONS IF TEST RESULTS ARE NOT WITHIN LIMITS RECOMMENDED BY TILE MANUFACTURER AND SETTING MATERIALS MANUFACTURER.
 - c. VERIFY THAT REQUIRED FLOOR-MOUNTED UTILITIES ARE IN CORRECT LOCATION.
2. PREPARATION:
 - a. PROTECT SURROUNDING WORK FROM DAMAGE.
 - b. REMOVE ANY CURING COMPOUNDS OR OTHER CONTAMINATES.
 - c. VACUUM CLEAN SURFACES AND DAMP CLEAN.
 - d. SEAL SUBSTRATE SURFACE CRACKS WITH FILLERS. LEVEL EXISTING SUBSTRATE SURFACES TO ACCEPTABLE FLATNESS TOLERANCES.
 - e. INSTALL CEMENTITIOUS BACKER BOARD (IF APPLICABLE) IN ACCORDANCE WITH ANSI A108.11 AND BOARD MANUFACTURER'S INSTRUCTIONS. TAPE JOINTS AND CORNERS, COVER WITH SKIM COAT OF DRY SET MORTAR TO A FEATHER EDGE.
 - f. PREPARE SUBSTRATE SURFACES FOR ADHESIVE INSTALLATION IN ACCORDANCE WITH ADHESIVE MANUFACTURER'S INSTRUCTIONS.
3. INSTALLATION:
 - a. INSTALL TILE AND GROUT IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF ANSI A108.1 THROUGH A108.13, MANUFACTURER'S INSTRUCTIONS, AND TCA HANDBOOK RECOMMENDATIONS.
 - b. LAY TILE PATTERN INDICATED. ARRANGE PATTERN SO THAT A FULL TILE OR JOINT IS CENTERED ON EACH WALL. DO NOT INTERRUPT TILE PATTERN THROUGH OPENINGS. ADJUST LAYOUT TO MINIMIZE TILE CUTTING. LOCATE CUTS TO BE LEAST CONSPICUOUS.
 - c. CUT AND FIT TILE TO PENETRATIONS THROUGH TILE, LEAVING SELANT JOINT SPACE. FORM CORNERS AND BASES NEATLY. ALIGN FLOOR JOINTS (IF APPLICABLE).
 - d. PLACE TILE JOINTS UNIFORM IN WIDTH, SUBJECT TO VARIANCE IN TOLERANCE ALLOWED IN TILE SIZE. MAKE JOINTS WATERTIGHT, WITHOUT VOIDS, CRACKS, EXCESS MORATER, OR EXCESS GROUT. MAINTAIN UNITS UNIFORMLY "IN PLANE". PROVIDE STRAIGHT, UNIFORM JOINT WIDTHS AND GROUT LINES.
 - e. FORM ANGLES SQUARE.
 - f. INSTALL ACCESSORIES RIGIDLY IN PREPARED OPENINGS.
 - g. SOUND TILE AFTER SETTING. REPLACE HOLLOW SOUNDING UNITS.
 - h. KEEP EXPANSION JOINTS FREE OF ADHESIVE OR GROUT. APPLY SEALANT TO JOINTS.
 - i. ALLOW TILE TO SET FOR A MINIMUM OF 48 HOURS PRIOR TO GROUTING.
 - j. GROUT TILE JOINTS. USE STANDARD GROUT UNLESS OTHERWISE INDICATED.
 - k. APPLY SEALANT TO JUNCTION OF TILE AND DISSIMILAR MATERIALS AND JUNCTION OF DISSIMILAR PLANES.
4. CLEANING:
 - a. CLEAN TILE AND GROUT SURFACES.



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ISSUE & REVISION RECORD

#	DATE	DESCRIPTION
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PROJECT

DIAMONDS DIRECT
2600 N Mayfair RD
Wauwatosa, WI 53226

CLIENT



DIAMONDS DIRECT

PHILLIPS JOB NUMBER 2336402

ISSUE DATE 06/30/2023

DRAWN BY/CHECKED BY DT/GC

DRAWING TITLE

ARCHITECTURAL SPECIFICATIONS

SHEET NUMBER

G-9.2

500 PEACHTREE DRIVE, SUITE 450
ATLANTA, GEORGIA 30322

ISSUED FOR CONSTRUCTION



PHILLIPS

CONSULTANT

SEAL



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Wauwatosa, WI 53226

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DIAMONDS DIRECT

PHILLIPS JOB NUMBER 2336402

ISSUE DATE 09/30/2023

DRAWN BY/CHECKED BY DT/GC

DRAWING TITLE ARCHITECTURAL SITE PLAN

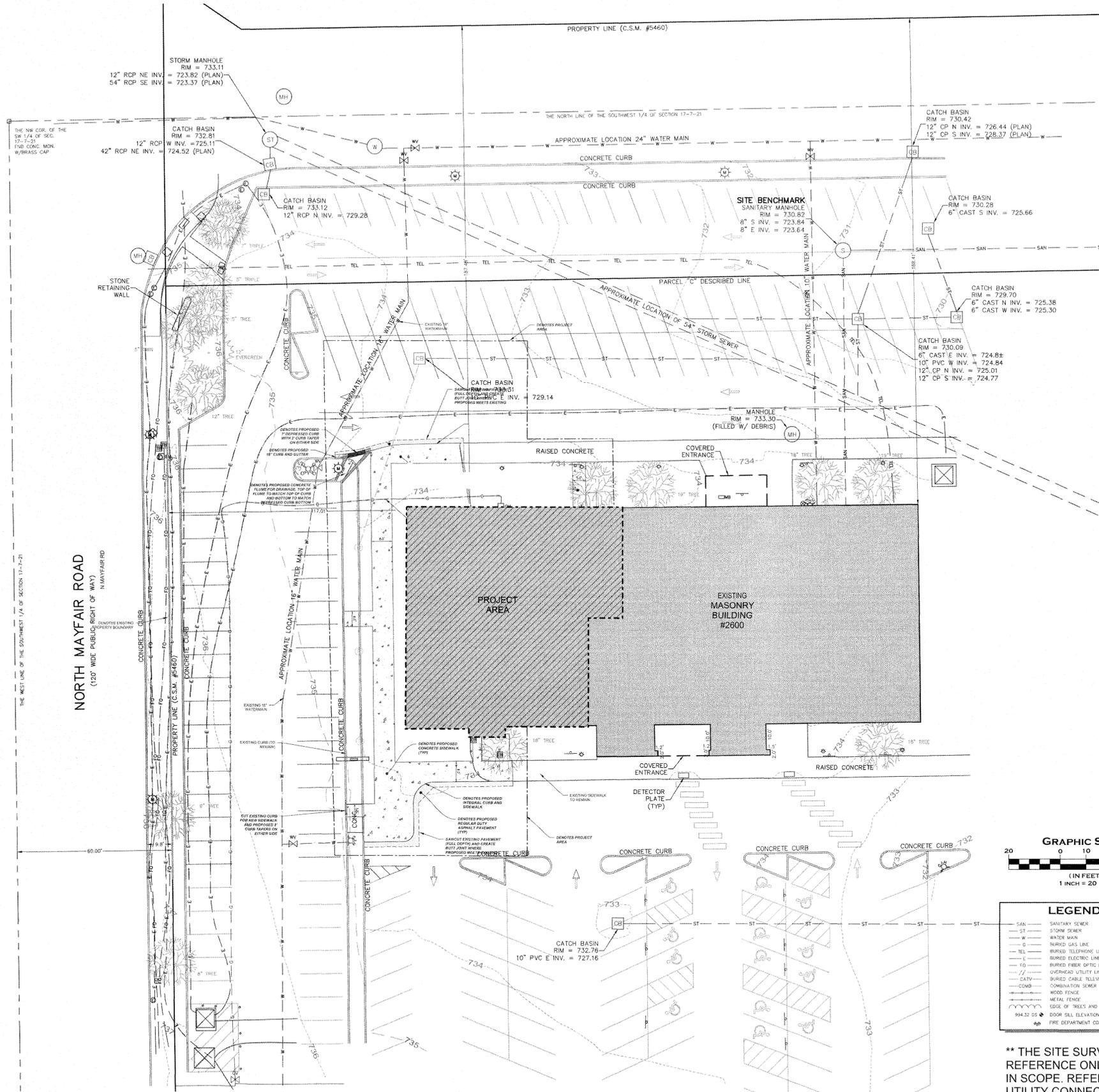
SHEET NUMBER SP-1.0

ARCHITECTURAL SITE PLAN

ISSUED FOR CONSTRUCTION

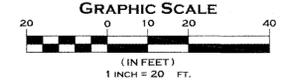
SP-1.0

5901 PEACHTREE DUNWOODY CIRCLE
BUILDING A, SUITE 450
ATLANTA, GEORGIA 30328



SITE PLAN

NOT TO SCALE



LEGEND

SAN	SANITARY SEWER	ET	ELECTRIC TRANSFORMER	HYDRANT
ST	STORM SEWER	EM	ELECTRIC METER	WATER VALVE
W	WATER MAIN	EP	ELECTRIC PEDESTAL	GAS VALVE
G	BURIED GAS LINE	ER	ELECTRIC ROD AT GRADE	MANHOLE
TEL	BURIED TELEPHONE LINE	ETG	TELEPHONE ROD AT GRADE	STORM MANHOLE
E	BURIED ELECTRIC LINE	ETP	TELEPHONE PEDESTAL	CATCH BASIN
FO	BURIED FIBER OPTIC LINE	ETM	TV PEDESTAL	CURB INLET
///	OVERHEAD UTILITY LINES	ETC	GAS METER	METAL LIGHT POLE
CATV	BURIED CABLE TELEVISION LINES	AC	AIR CONDITIONER	CONCRETE LIGHT POLE
COMB	COMBINATION SEWER	U	UTILITY POLE	WOOD LIGHT POLE
---	WOOD FENCE	W	WOOD SIGN	METAL SIGN
---	METAL FENCE	M	METAL SIGN	FLAG POLE
---	EDGE OF TREES AND BRUSH	B	BOLLARD LIGHT	YARD LIGHT
9432 DS	DOOR BELL ELEVATION	Y	YARD LIGHT	FIBER OPTIC MARKER
FD	FIRE DEPARTMENT CONNECTION	---	---	GLY WIRE

** THE SITE SURVEY IS PROVIDED FOR REFERENCE ONLY. NO SITE WORK IS INCLUDED IN SCOPE. REFER TO CIVIL DRAWINGS FOR ANY UTILITY CONNECTIONS



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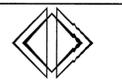
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Wauwatosa, WI 53226

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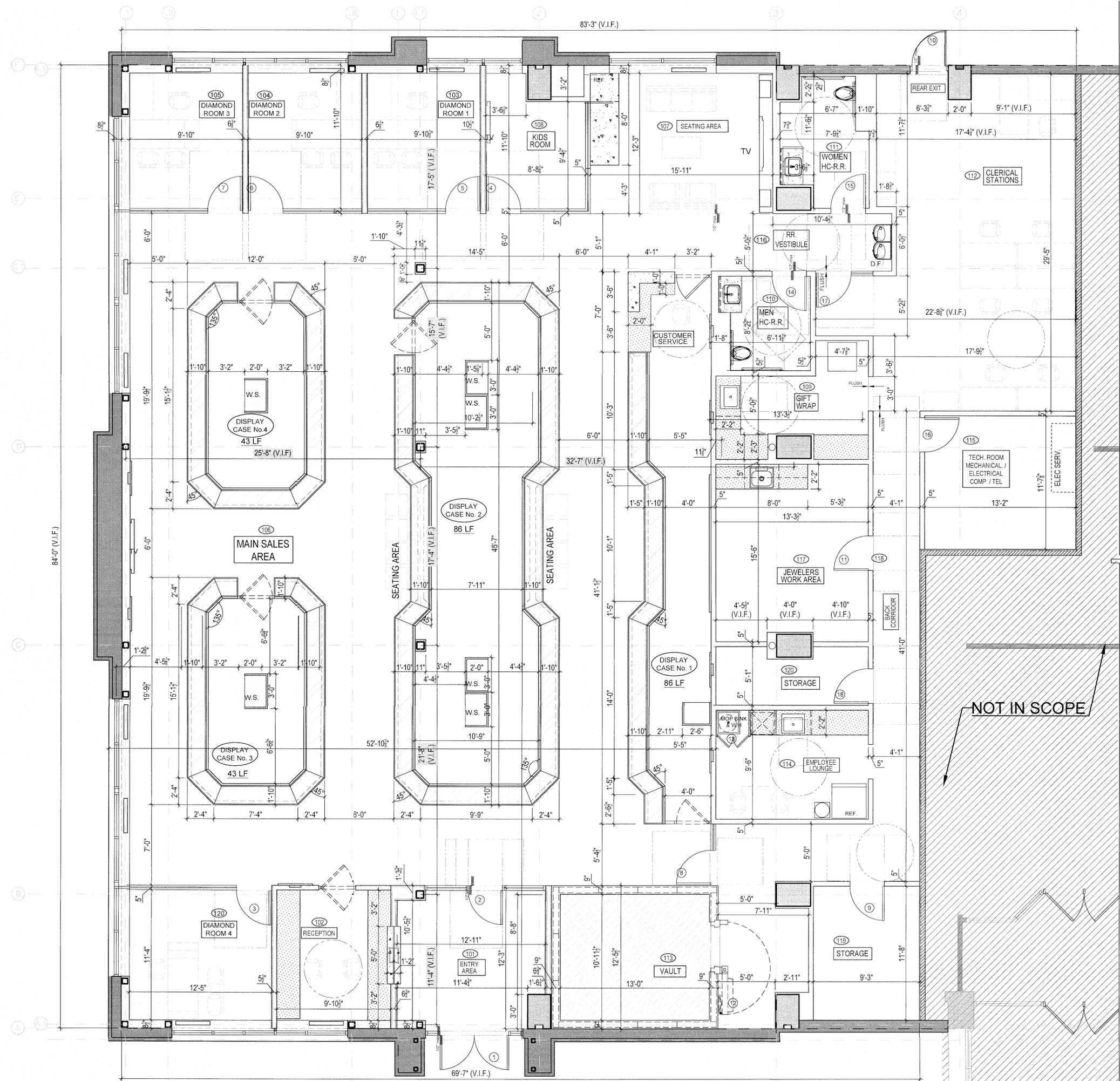
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 ISSUE DATE _____ 06/30/2023
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 DRAWING TITLE _____

DIMENSIONED FLOOR PLAN
SHEET NUMBER

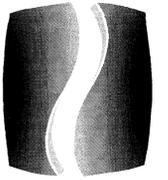
A-1.2

500 PEACHTREE DUNWOODY RD
BUILDING A SUITE 450
ATLANTA, GEORGIA 30328

ISSUED FOR CONSTRUCTION



DIMENSIONED FLOOR PLAN
SCALE: 1/4"=1'-0"



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DIAMONDS DIRECT

PHILLIPS JOB NUMBER 2336402
ISSUE DATE 06/30/2023
DRAWN BY/CHECKED BY DT/GC
DRAWING TITLE

RCP NOTES AND
LIGHT FIXTURES
SHEET NUMBER

A-2.1

ISSUED FOR CONSTRUCTION

5000 PEACOCK LANE, SUITE 450
BUILDING A, SUITE 450
ATLANTA, GEORGIA 30328

Diamonds Direct - WISCONSIN Lighting Fixture Schedule								
TYPE	DESCRIPTION	MFR	CATALOG NUMBER	VOLTS	LAMPS	WATTS	MOUNTING	REMARKS
A	4" RECESSED DOWNLIGHT	ELITE	HH4-LED-900L-DIM10-MVOLT-MD-50K-90+HH4-4501-WH-WH-BRACKETS	120	LED	10w MAX	RECESSED	
B	2 LIGHT RECESSED MULTIPLE	SOLAIS	XFR12-XW20-15C-50K/1100-WH/WH	120	LED	29w	RECESSED	
C	4" RECESSED DOWNLIGHT W/ QUICK CONNECT	ELITE	HH4-LED-900L-DIM10-MVOLT-MD-50K-90+HH4-4501-MB-BK	120	LED	10w MAX	RECESSED	
D	4" RECESSED DOWNLIGHT	ELITE	HH4LED1200LDM10MVOLTM40K90+HH44501W-WH		MVOLT	16w	RECESSED	
D1	4" RECESSED DOWNLIGHT W/ EM	ELITE	HH4LED1200LDM10MVOLTM40K90EM+HH44501W-WH		MVOLT	16w	RECESSED	
E	2X4 FLAT PANEL	CREE	C-TR-C-PP24-37L-40K-WH	120/277	LED	29w	RECESSED	
E1	2X4 FLAT PANEL W/ EM	CREE	C-TR-C-PP24-37L-40K-WH-EB	120/277	LED	29w	RECESSED	
F	2X4 INDIRECT TROFFER	ENVISION	LED-CBT-2X2-35W-50K-HL	120/277	LED	35	RECESSED	
F1	2X4 INDIRECT TROFFER W/ EM	ENVISION	LED-CBT-2X2-35W-50K-HL-EMB	120/277	LED	35	RECESSED	
G	LED LIGTH INSIDE DISPLAY CASES		(BY OTHERS - INCLUDED WITH MILLWORK / TO BE COORDINATE WITH OWNER)					INSIDE DISPLAY CASES
J	LED TAPE LIGHT-RUNS PER PLANS	JESCO	DL-FLEX2-UP-40-5090 SERIES PLUS MULTIPLE PARTS TO COMPLETE RUNS	120-277	LED	3.8W/FT	IN CHANNEL	LENGTHS PER PLANS
K	2" RECESSED LED LINEAR	MERCURY	MLS2-F-CUSTOM-50K-HTA-1%-U	120-277	LED	3.5 PER FT	RECESSED	LENGTHS PER PLANS
L	LED EXTERIOR SCONCE	IDEOLI	1107-0021-P / EXTERIOR LED TUBE 56 IN H	120-277	LED	45	SURFACE MOUNTED	
L	LED EXTERIOR WALL SCONCE	ET2 ONLINE	E41344-SA	120	LED	(2) 15	SURFACE MOUNTED	ALTERNATIVE IF IDEOLI BRAND IS NOT AVAILABLE
M	EXTERIOR WALL PACK	LUMARK	XTOR1B-W-BK	120	LED	12	SURFACE MOUNTED	
N	DECORATIVE SCONCE	--	--	--	--	--	--	NOT USED
P	2X2 FLAT PANEL	CREE	FLP22-D38W40	120/277	LED	31	RECESSED	
R	LED GLASS MIRROR	PARIS MIRROR	HARM4835600D	110	LED	59	WALL MOUNTED	INSTALL VERTICALLY 35" w. x 48" h.
EM1	RECESSED DOWNLIGHT FOR EM	ENVISION	LED-SL-PNL-6SQ14W-TRH-WHT-EMB	120	LED	14	RECESSED	STANDARD DOWNLIGHT - ALWAYS ON WITH EM BACK-UP
EM2	EMERGENCY LIGHT	LIGHTALARMS	LCAB-2SQLED	120	LED	2	SURFACE MOUNTED	
X1	EDGE LIT EXIT SIGN	CONTECH	REXA-SF-R-EM-P	120/277	LED	3	SURFACE MOUNTED	
X1-D	EDGE LIT EXIT SIGN (DOUBLE FACE)	CONTECH	REXA-DF-R-EM-C-P	120/277	LED	3	SURFACE MOUNTED	
X2	EXIT SIGN	LIGHTALARMS	QLXN500R-N	120/277	LED	2.5	SURFACE MOUNTED	
X3	EXIT/EM COMBO	LIGHTALARMS	LCAC-R-SQLED	120/277	LED	3	SURFACE MOUNTED	

- * ALL LIGHT FIXTURES TO BE PROVIDED BY OWNER / INSTALLED BY G.C.
- ** FACTORY SUBMITTAL TO BE APPROVED BY ARCHITECT BEFORE ORDERING
- *** ALL LIGHTS AT SALES AREA & DIAMOND ROOMS TO BE 5000 K 80-85+CRI
- ALL LIGHTS AT BACK AREAS TO BE 4000 K 80-85+CRI

LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	RECESSED LIGHT FIXTURE		A/C GRILLE / TITUS OMNI MODEL - MATTE WHITE COLOR
	CONT. LED LIGHT FIXTURE		A/C LINEAR GRILLE MATTE WHITE COLOR
	2 LIGHT COMBO		A/C RETURN MATTE WHITE COLOR
	2' x 4' TROFFER LED LIGHT FIXTURE (DIAMOND ROOMS)		EXHAUST FAN
	2' x 4' PRISMATIC LIGHT		METAL ACCESS PANEL / G.C TO INSTALL AS REQUIRED
	LED LIGHT COVE FIXTURE		REC. EMERGENCY LIGHT
			LIGHT FIXTURE NUMBER
			EMERGENCY LIGHT
			EXIT SIGN

PLEASE NOTE:
FOR EXACT QUANTITIES OF LIGHTING AND EXACT LIGHT COVES LOCATIONS SEE INTERIOR ELEVATIONS PRIOR TO BIDDING AND INSTALLATION. ELECTRICAL CONTRACTOR TO INCLUDE INTERIOR ELEVATIONS AS PART OF BID AND COORDINATE LOCATION W/ ARCHITECTURAL DRAWINGS, SEE SHEETS A-2.0, A-3.0, A-4.0, A-5.0, A-6.0 & DETAILS

PLEASE NOTE:
24" x 24" FLUSH METAL ACCESS PANEL W/ FLUSH AND TAPED JOINTS AT THE PERIMETER.
GENERAL CONTRACTOR TO FIELD VERIFY EXACT LOCATION / INSTALL AS REQUIRED.

PLEASE NOTE:
REFER TO MECH. DWGS. FOR ALL A/C SUPPLY AND RETURN GRILLES.
A/C SUPPLY SQUARE GRILLES TO BE TITUS OMNI MODEL - MATTE WHITE COLOR. G.C. TO PROVIDE SHOP DRAWINGS FOR OWNER / ARCHITECT APPROVAL.

PLEASE NOTE:
ALL FURRING, FRAMING & BLOCKING ABOVE THE CEILING SHALL BE OF NON-COMBUSTIBLE MATERIALS.

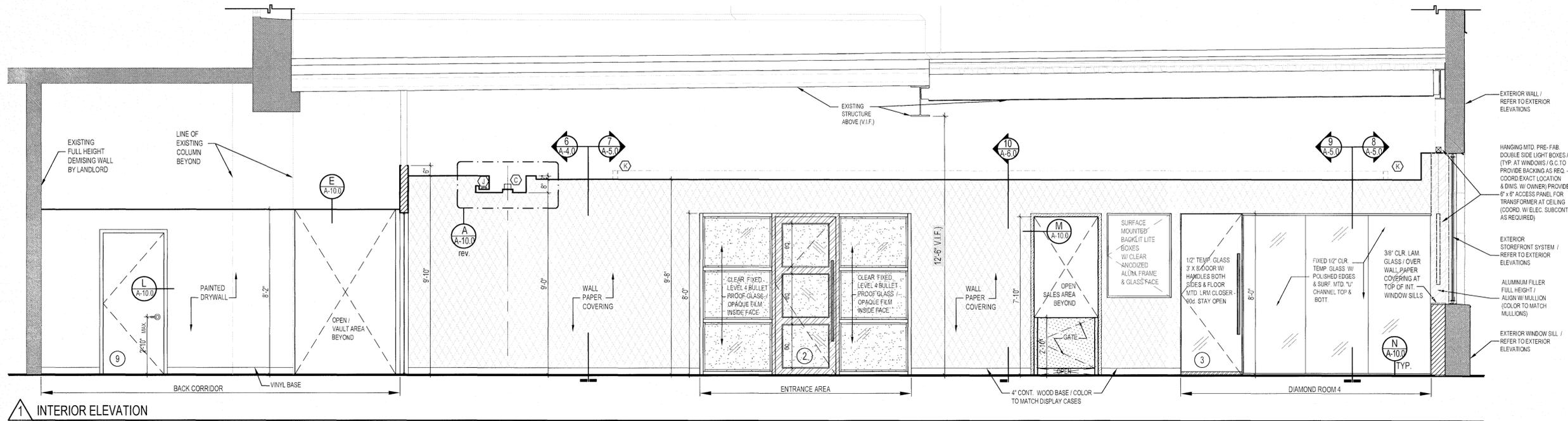
PLEASE NOTE:
ALL DROPPED CEILING TO BE ARMSTRONG / DUNE, FINE TEXTURE W/ "SURFA-FINE 9116" EXPOSED WHITE TEE GRID.

PLEASE NOTE:
LIGHT FIXTURES TYPE "C" TO BE ALIGNED WITH DISPLAY CASES BELOW, EXACTLY AS INDICATED IN DRAWINGS, SEE SHEETS A-2.0, A-3.0, A-4.0, A-5.0, A-6.0

PLEASE NOTE:
GENERAL CONTRACTOR SHALL NOT BE PERMITTED TO MODIFY, ATTACH TO OR HANG ANY LOADS FROM THE LL'S DUCTWORK, WATER LINES, OR CONDUITS.
ALL FINISHED SURFACES TO BE TRUE, LEVEL AND PLUMB.

PLEASE NOTE:
PLEASE NOTE: ALIGN ALL SOFFITS AND COVES WITH CASES BELOW - SEE SHEETS A-2.0, A-3.0, A-4.0, A-5.0, A-6.0 FOR EXACT LOCATION.

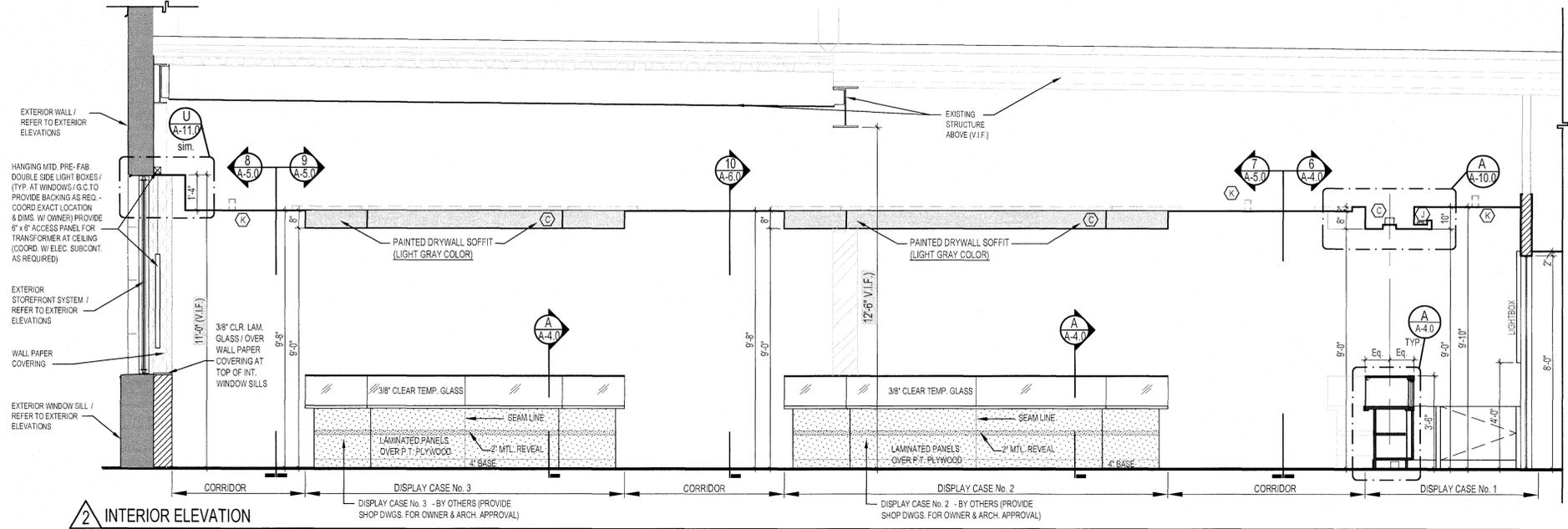
PLEASE NOTE: FOR ALL LITE COVES
G.C. TO VERIFY PRIOR TO FINAL INSTALLATION OF STRIP LIGHTING THAT ALL LED STRIPS LIGHTS ARE NOT VISIBLE FROM THE SALES AREA AT ANY POINT



1 INTERIOR ELEVATION

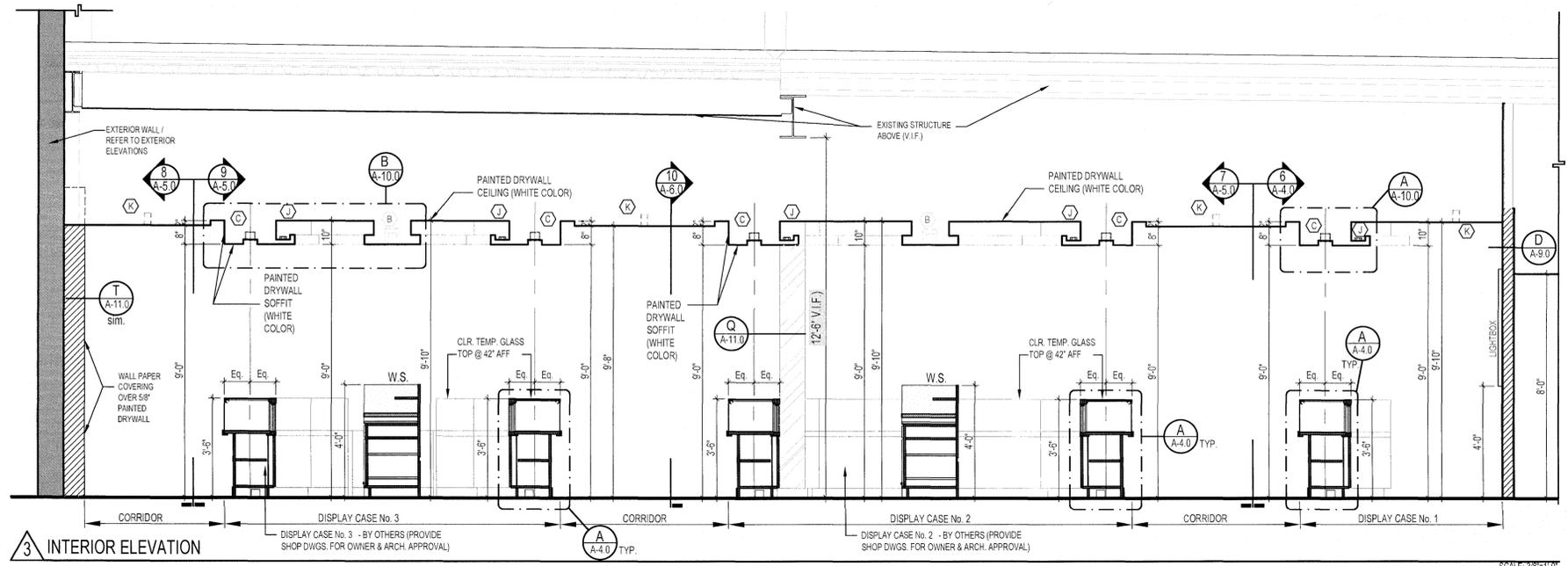
SCALE: 3/8"=1'-0"

- PLEASE NOTE:**
ALL DIMENSIONS TO BE VERIFIED IN FIELD PRIOR TO STAR CONSTRUCTION.
- PLEASE NOTE:**
SEE STRUCTURE FOR SOFFIT FRAMING
- PLEASE NOTE:**
FOR ALL WALLS WITH WALL PAPER COVERING G.C. TO PROVIDE AT ALL CORNERS: LEXAN CLEAR CORNER GUARDS (POLYCARBONATE) BY THE CORNER GUARD STORE 120in x 0.75in x 0.75in - 90 Deg, 0.042in Thick
- PLEASE NOTE:**
SHOP DRAWINGS & SAMPLES TO BE SUBMITTED TO ARCHITECT & OWNER FOR APPROVAL PRIOR TO RELEASE FOR FABRICATION. G.C. TO PROVIDE SHOP DRAWINGS FOR ALL MILLWORK UNITS INCLUDING: WALL LAMINATED PANELS, DISPLAY UNITS, CUSTOMER SERVICE AREA, P.O.S. & CABINETS. IF G.C. RELEASES ANY SUB-CONTRACTOR WITHOUT WRITTEN APPROVAL OF ARCHITECT & OWNER, ARCHITECT RESERVES THE RIGHT TO REQUEST REMOVAL & REPLACEMENT WITH SPECIFIED ITEM AT NO COST TO OWNER FOR PURCHASE, LABOR, MATERIALS, OR INSTALLATION.
- FOR ALL DISPLAY CASES, WALLS WOOD PANELS & MILLWORK CABINETS:**
-G.C. MUST PROVIDE SHOP DRAWINGS & SAMPLES FOR OWNER & ARCHITECT'S APPROVAL.
-MILLWORK SUBCONTRACTOR MUST VERIFY ALL DIMENSIONS W/ OWNER PRIOR TO PRODUCE SHOP DWGS. / PROVIDE SHOP DRAWINGS FOR OWNER & ARCH. APPROVAL / PROVIDE SAMPLES OF LAMINATE FINISH FOR OWNER'S APPROVAL.
-MILLWORK SUBCONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO FABRICATION. G.C. TO PROVIDE ADEQUATE BLOCKING FOR ALL WALL DISPLAY UNITS WHERE REQUIRED / COORDINATE WITH MILLWORK SUBCONTRACTOR AS NECESSARY.
-MILLWORK SUBCONTRACTOR TO PROVIDE ACCESS PANELS IF REQUIRED / COORD. W/ G.C.
-ALL DISPLAY UNITS' GLASS DOORS WILL BE LOCKABLE.



2 INTERIOR ELEVATION

SCALE: 3/8"=1'-0"



3 INTERIOR ELEVATION

SCALE: 3/8"=1'-0"



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DIAMONDS DIRECT
2600 N Mayfair RD
Wauwatosa, WI 53226



DIAMONDS DIRECT

PHILLIPS JOB NUMBER _____ 2336402
ISSUE DATE _____ 06/30/2023
DRAWN BY/CHECKED BY _____ DT/GC
DRAWING TITLE _____

INTERIOR ELEVATIONS
SHEET NUMBER _____

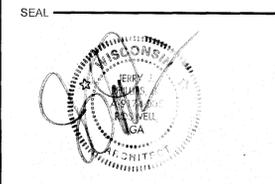
A-3.0

5901 PEACHTREE DUNWOODY RD
FLOOR PLAN & SHEET 150
ATLANTA, GEORGIA 30328

ISSUED FOR CONSTRUCTION



PHILLIPS
CONSULTANT



ISSUE & REVISION RECORD

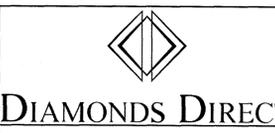
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DIAMONDS DIRECT
2600 N Mayfair RD
Wauwatosa, WI 53226

CLIENT _____

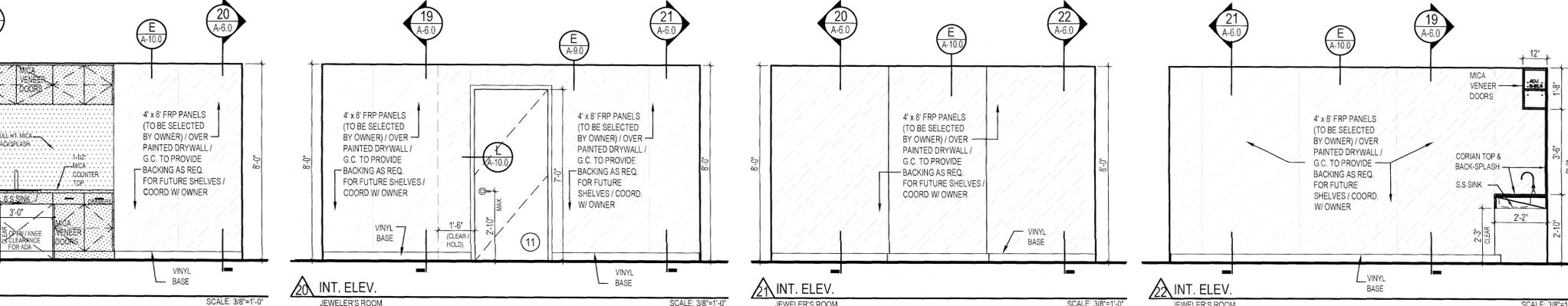
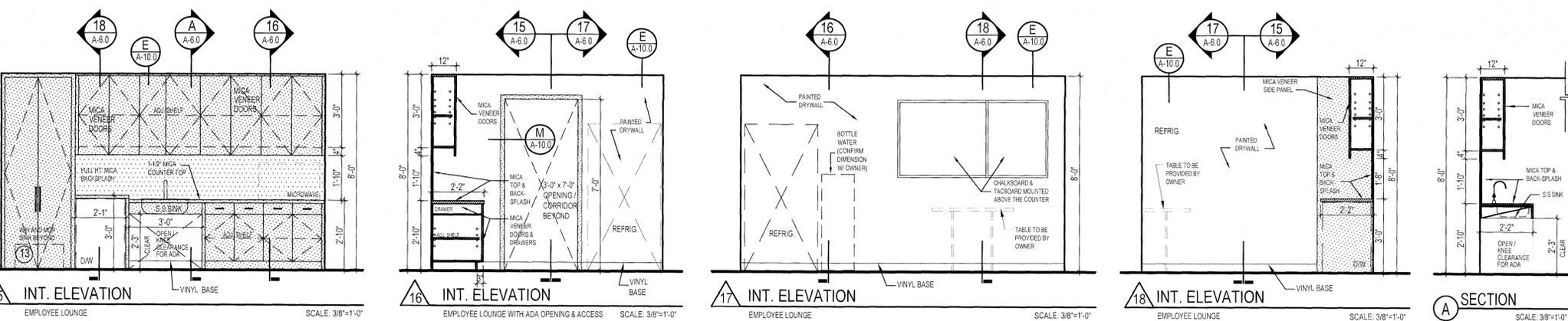
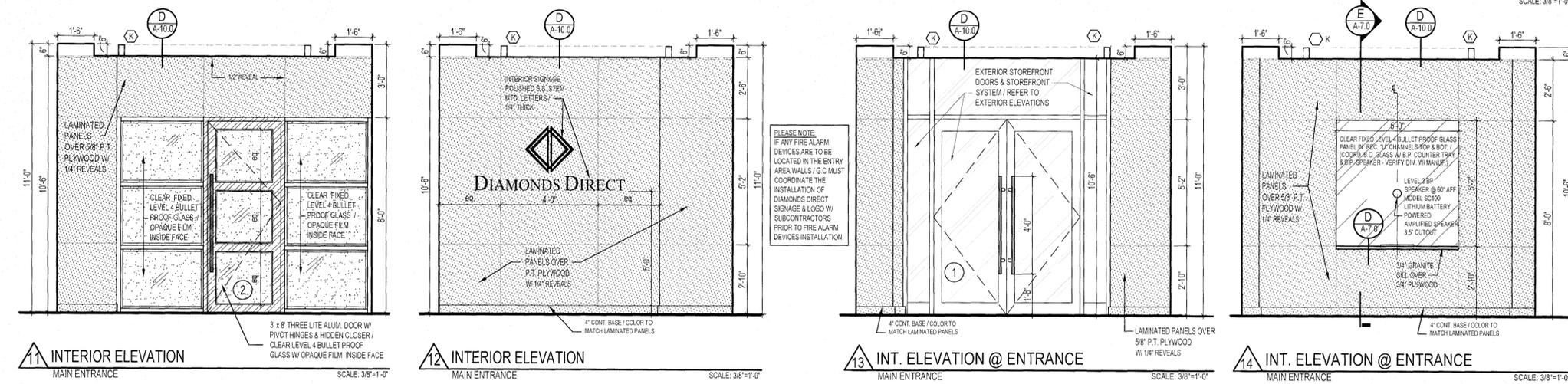
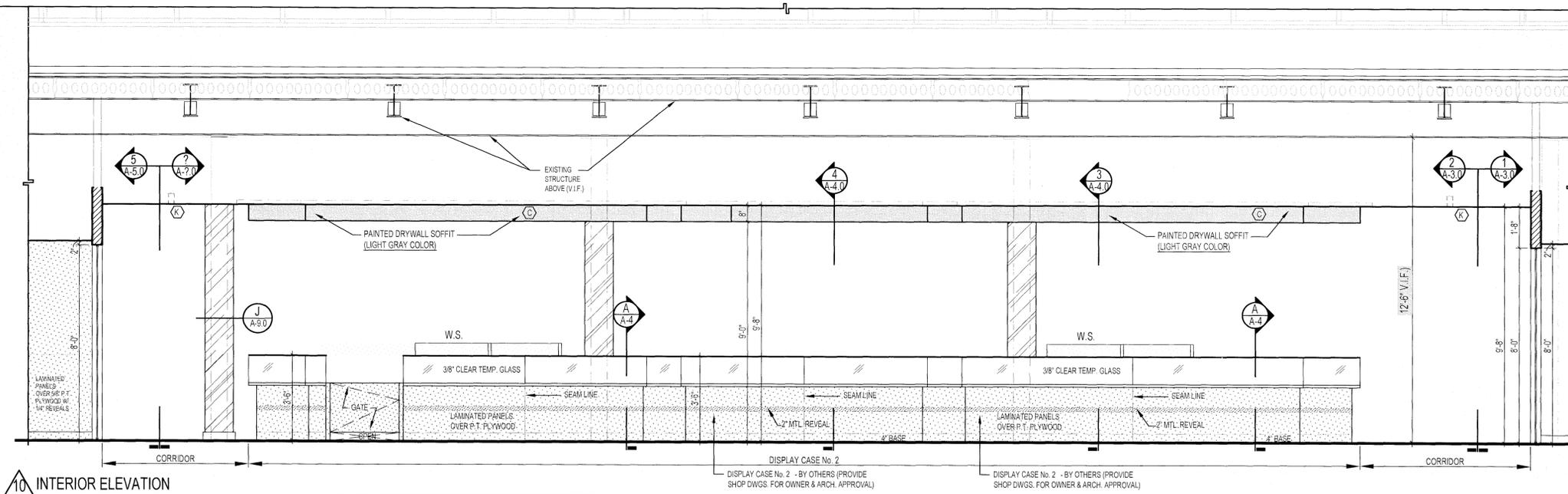


PHILLIPS JOB NUMBER _____ 2336402
ISSUE DATE _____ 06/30/2023
DRAWN BY/CHECKED BY _____ DT/GC
DRAWING TITLE _____

INTERIOR ELEVATIONS
SHEET NUMBER **A-6.0**

590 PEACHTREE DUNWOODY RD
BUILDING A SUITE 150
ATLANTA, GEORGIA 30328

ISSUED FOR CONSTRUCTION



PLEASE NOTE:
SHOP DRAWINGS & SAMPLES TO BE SUBMITTED TO ARCHITECT & OWNER FOR APPROVAL PRIOR TO RELEASE FOR FABRICATION. G.C. TO PROVIDE SHOP DRAWINGS FOR ALL MILLWORK UNITS INCLUDING: WALL LAMINATED PANELS, DISPLAY UNITS, CUSTOMER SERVICE AREA, P.O.S. & CABINETS.
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FOR ALL DISPLAY CASES, WALLS WOOD PANELS & MILLWORK CABINETS:
G.C. MUST PROVIDE SHOP DRAWINGS & SAMPLES FOR OWNER & ARCHITECT'S APPROVAL. MILLWORK SUBCONTRACTOR MUST VERIFY ALL DIMENSIONS W/ OWNER PRIOR TO PRODUCE SHOP DWGS. / PROVIDE SHOP DRAWINGS FOR OWNER & ARCH. APPROVAL / PROVIDE SAMPLES OF LAMINATE FINISH FOR OWNER'S APPROVAL.
MILLWORK SUBCONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO FABRICATION. G.C. TO PROVIDE ADEQUATE BLOCKING FOR ALL WALL DISPLAY UNITS WHERE REQUIRED / COORDINATE WITH MILLWORK SUBCONTRACTOR AS NECESSARY.
MILLWORK SUBCONTRACTOR TO PROVIDE ACCESS PANELS IF REQUIRED / COORD. W/ G.C.
ALL DISPLAY UNITS' GLASS DOORS WILL BE LOCKABLE.

PLEASE NOTE:
FOR ALL WALLS WITH WALL PAPER COVERING G.C. TO PROVIDE AT ALL CORNERS: LEXAN CLEAR CORNER GUARDS (POLYCARBONATE) BY THE CORNER GUARD STORE 120in x 0.75in x 0.75in - 90 Deg, 0.042in Thick

PLEASE NOTE:
SEE STRUCTURE FOR SOFFIT FRAMING

PLEASE NOTE:
ALL DIMENSIONS TO BE VERIFIED IN FIELD PRIOR TO STAR CONSTRUCTION.

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Wauwatosa, WI 53226

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DIAMONDS DIRECT

PHILLIPS JOB NUMBER 2336402
ISSUE DATE 06/30/2023
DRAWN BY/CHECKED BY DT/GC
DRAWING TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

A-7.0

ISSUED FOR CONSTRUCTION

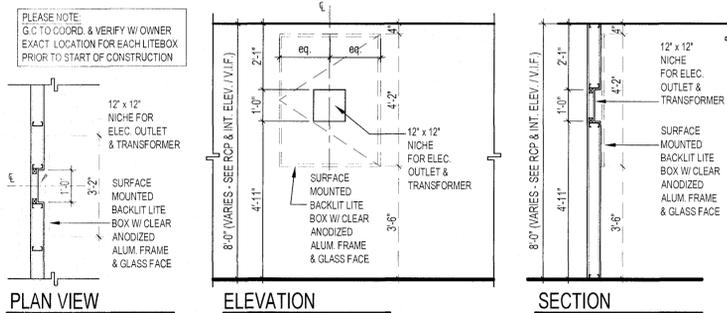
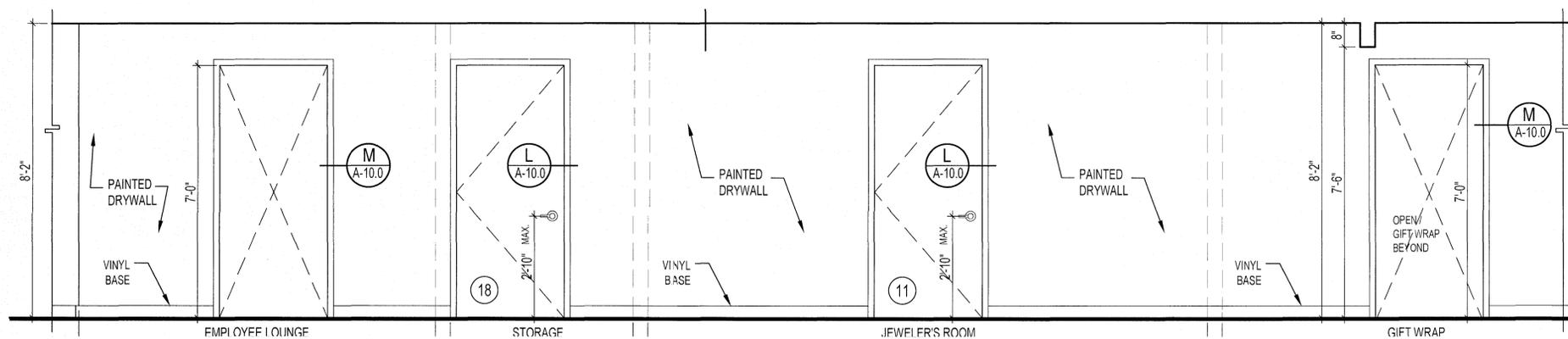
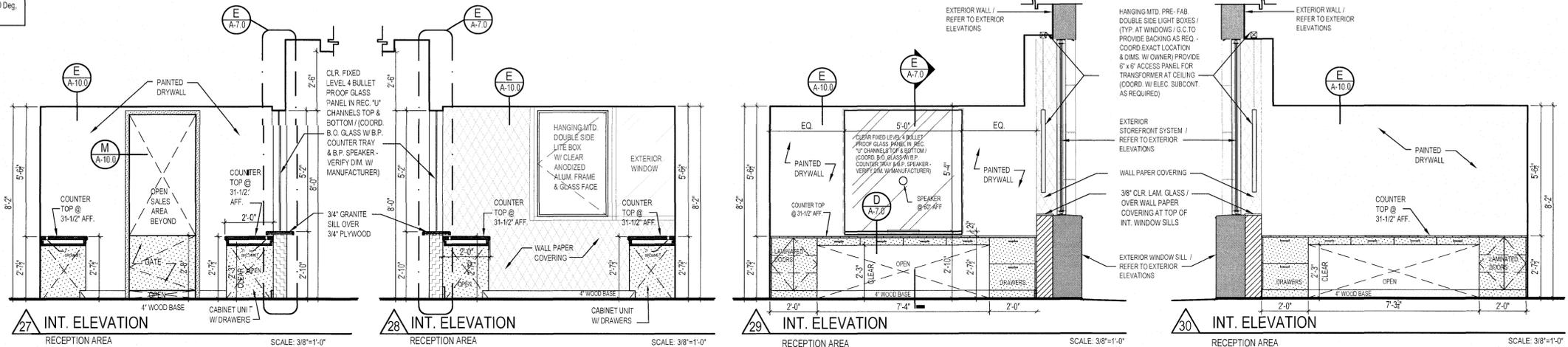
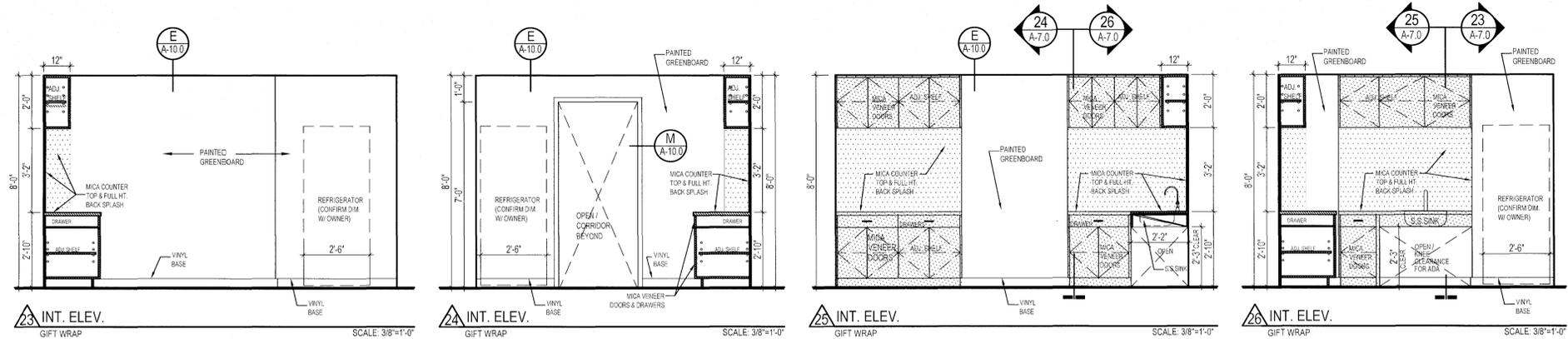
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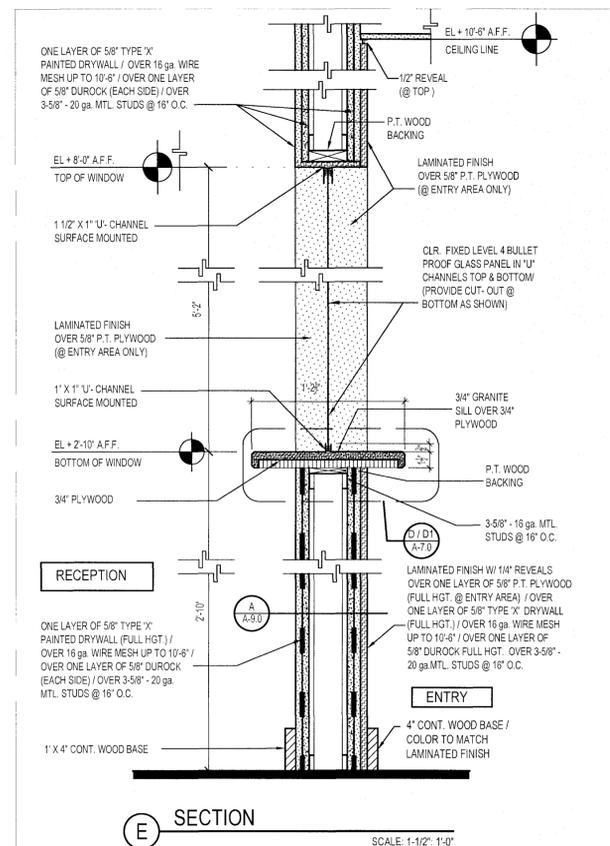
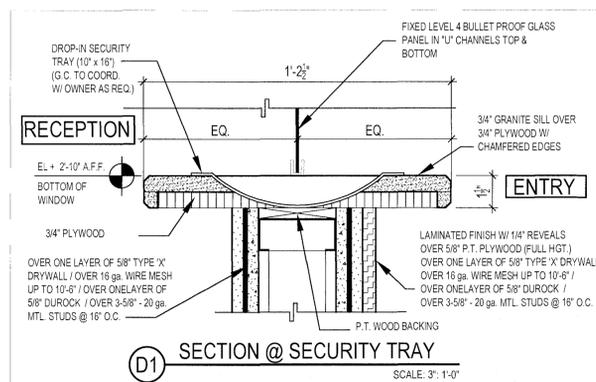
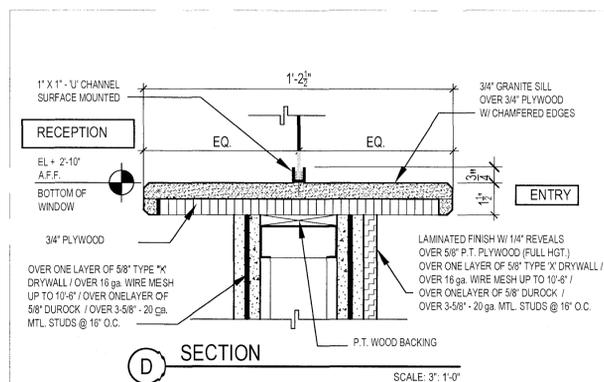
PLEASE NOTE:
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PLEASE NOTE:
ALL DIMENSIONS TO BE VERIFIED IN FIELD PRIOR TO START CONSTRUCTION.

PLEASE NOTE:
SEE STRUCTURE FOR SOFFIT FRAMING

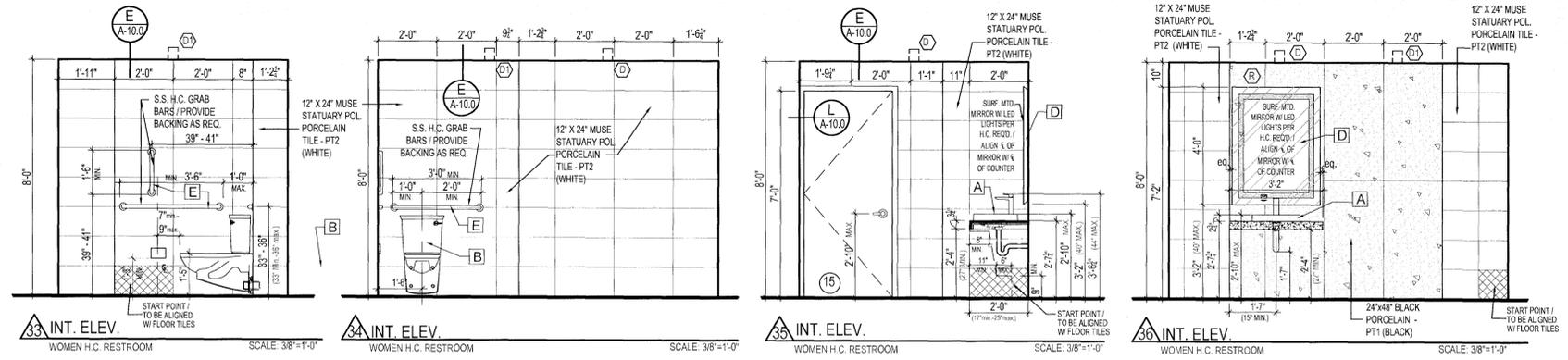


F RECESSED NICHE DETAIL - FOR WALL SURFACE MOUNTED LITEBOXES
PLEASE NOTE: ELECTRICAL OUTLET TO BE MOUNTED AT 66" AFF / REFER TO ELECTRICAL DRAWINGS
SCALE: 3/8"=1'-0"





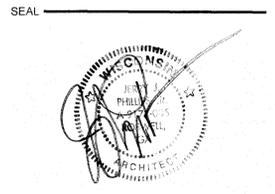
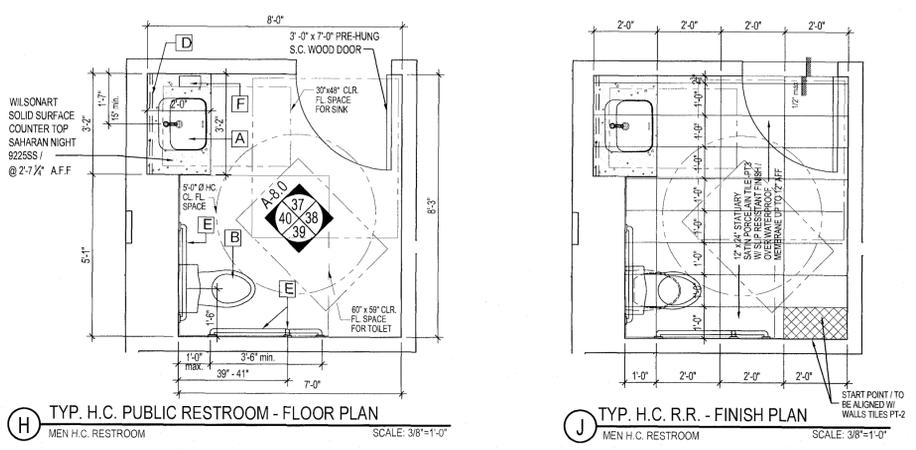
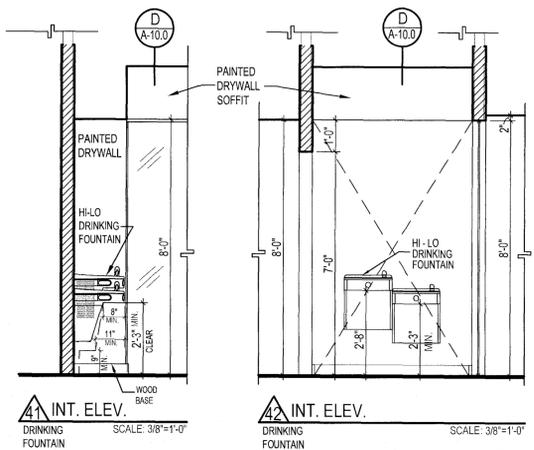
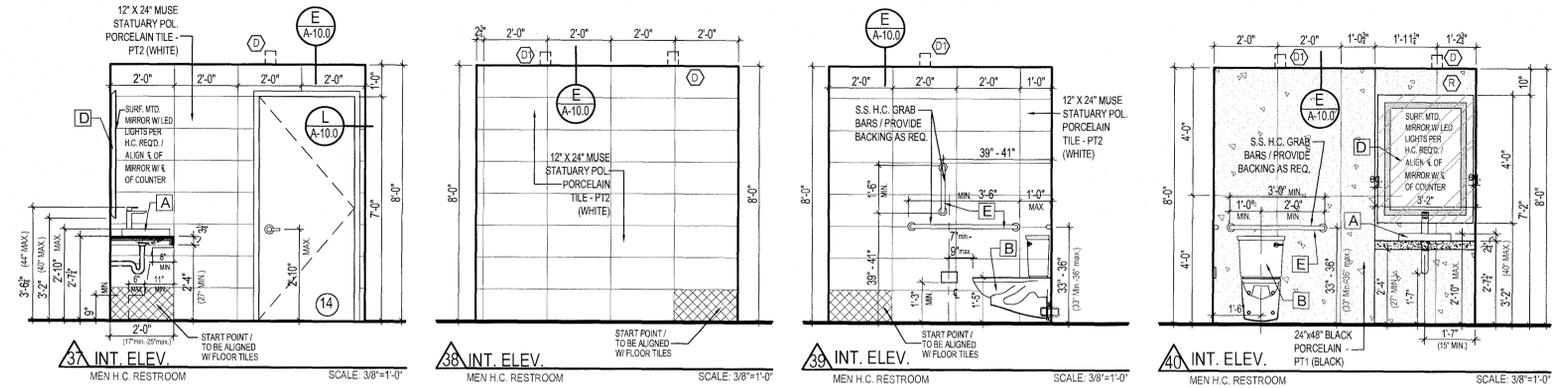
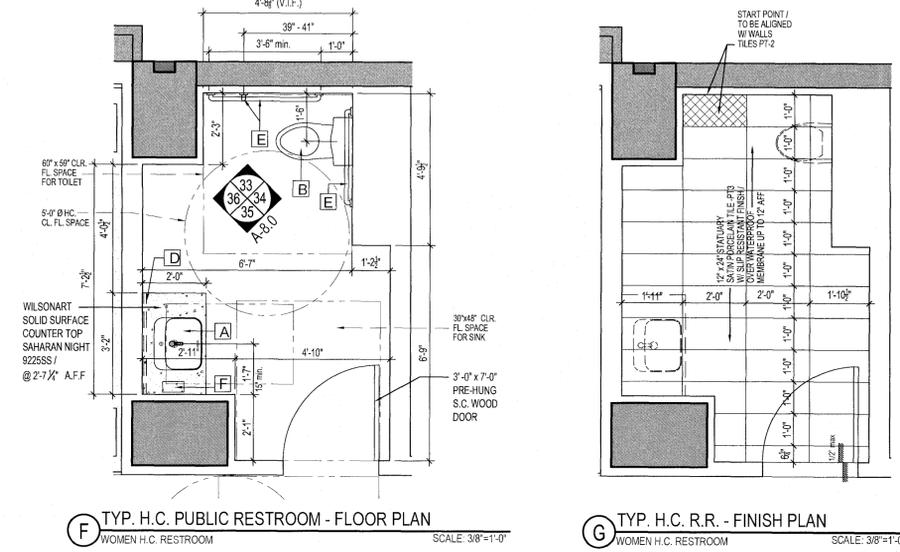
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PUBLIC H.C. RESTROOMS / FINISH SCHEDULE	
TYPE	DESCRIPTION
FLOOR	12" x 24" PORCELAIN TILE / WHITE COLOR # 771001-MUSE STATUARY SATIN / OVER WATER PROOF MEMBRANE W/ SLIP RESISTANT FINISH (TO BE INSTALLED VERTICALLY)
WALLS	PT-1 24" x 48" PORCELAIN TILE / BLACK COLOR # 260006 SAHARA NOIR SO LAPP (TO BE INSTALLED VERTICALLY)
WALLS	PT-2 12" x 24" PORCELAIN TILE / WHITE COLOR # 771010-MUSE STATUARY POLISHED (TO BE ALIGNED W/ FLOOR TILES)
COUNTER TOP	WILSONART SOLID SURFACE COUNTER TOP - SAHARAN NIGHT 9225SS / G.C. TO PROVIDE BACKING AS REQUIRED & COORDINATE W/ MILLWORK SUBCONTRACTOR. REFER TO SINK'S MANUFACTURER FOR PROPER HEIGHT INSTALLATION FOR ADA COMPLIANCE. PROVIDE LAV-GUARD PROTECTIVE / INSULATION KIT. INSTALL AS PER MANUF. SPECIFICATIONS

PLUMBING & ACCESSORY FIXTURE SCHEDULE	
TYPE	DESCRIPTION
A	LAVATORY (SEMI-RECESSED SINK) ADA COMPLIANT / BY TOTO MODEL LT415G / ARVINA RECTANGLE VESSEL LAVATORY / COLOR: COTTON / G.C. TO PROVIDE BACKING AS REQUIRED. FAUCET: ADA COMPLIANT LEVER HANDLE / BY TOTO MODEL TL02304U - GR SINGLE-HANDLE FAUCET - SEMI VESSEL POLISHED CHROME.
B	WATER CLOSET AMERICAN STANDARD 2882104 / COLOR: WHITE (VERIFY TRIP LEVER SIDE) GLENWALL VORMAX - TWO PIECE ELONGATED TOILET WALL HANG BACK OULET GRAVITY FLUSH TOILET CONFIGURATION ADA COMPLIANT (WHEN INSTALLED TRIP LEVER LOCATED ON THE APPROACH SIDE - G.C. TO COORD. AS REQ.) SEAT: 5055ABC ELONGATED SLOW CLOSE SOLID PLASTIC SUPPLY NOT INCLUDED - MUST BE ORDER SEPARATELY CARRIER FITTING TO BE PROVIDED BY G.C. REFER TO PLUMBING DWGS G.C. TO PROVIDE SUITABLE REINFORCEMENT FOR ALL SUPPORTS.
C	TOILET PAPER HOLDER TO BE SELECTED BY OWNER
D	MIRROR FRONT LIGHTED LED BATHROOM VANITY MIRROR - 35" W x 48" H (BY PARIS MIRROR - CAT # HARM483550000) SURFACE MOUNTED - INSTALL PER H.C. REQ'D
E	GRAB BARS STAINLESS STEEL
F	PAPER TOWEL DISPENSER TORK XPRESS COUNTERTOP MULTIFOLD HAND TOWEL DISPENSER 8" H x 13" W x 5" D
G	COAT HOOK TO BE SELECTED BY OWNER / ADA COMPLIANT

PLEASE NOTE:
 VANITY COUNTER TOP WIDTH DIMENSION = 38" / G.C. TO V.I.F.
 LED MIRROR MUST BE INSTALLED VERTICAL = 35" W x 48" H - GC MUST V.I.F. THAT MIRROR WIDTH WON'T PASS OUTSIDE THE EXTERIOR LINE OF VANITY COUNTER TOP, IN CASE THAT THE LED MIRROR IS WIDER THAN THE COUNTER TOP, G.C. MUST INFORM OWNER AND PROVIDE A 38" W x 48" H. STANDARD MIRROR W/ "J" MOLD ALL 4 SIDES, SAME WIDTH AS THE COUNTER TOP.



ISSUE & REVISION RECORD		
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2600 N Mayfair RD
Wauwatosa, WI 53226



PHILLIPS JOB NUMBER 2336402
ISSUE DATE 06/30/2023
DRAWN BY/CHECKED BY DT/GC
DRAWING TITLE

INTERIOR ELEVATIONS
SHEET NUMBER
A-8.0

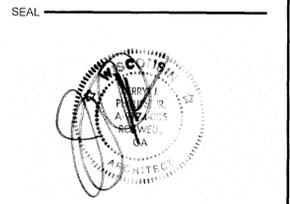
5001 Peachtree Dunwoody Rd
Building A, Suite 450
Atlanta, Georgia 30328

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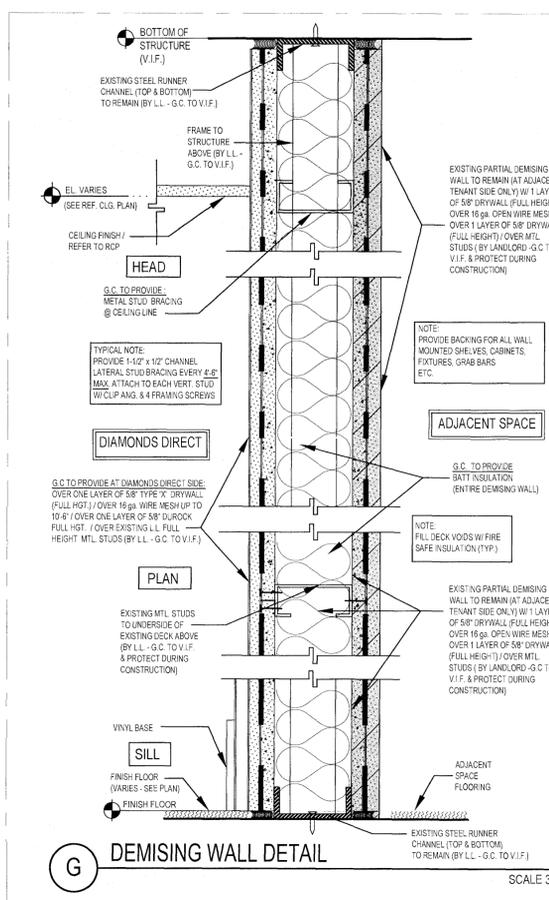
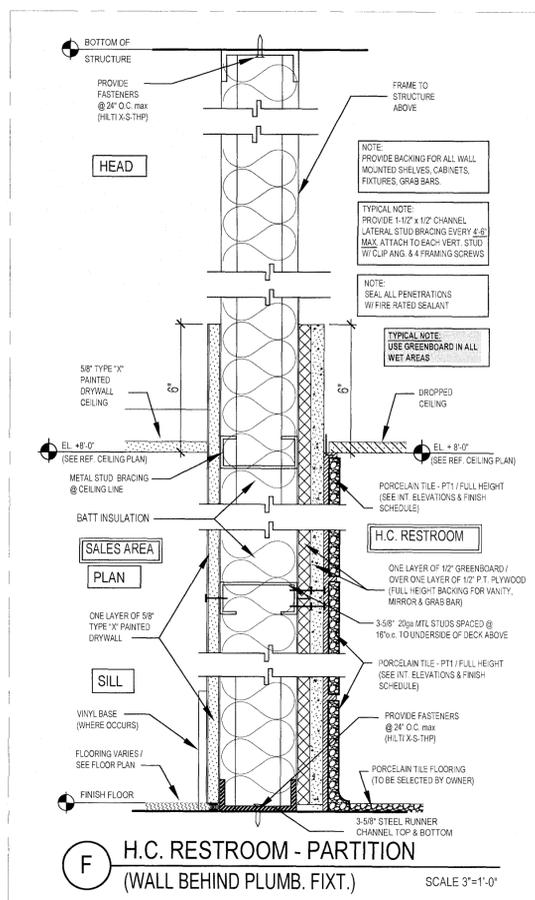
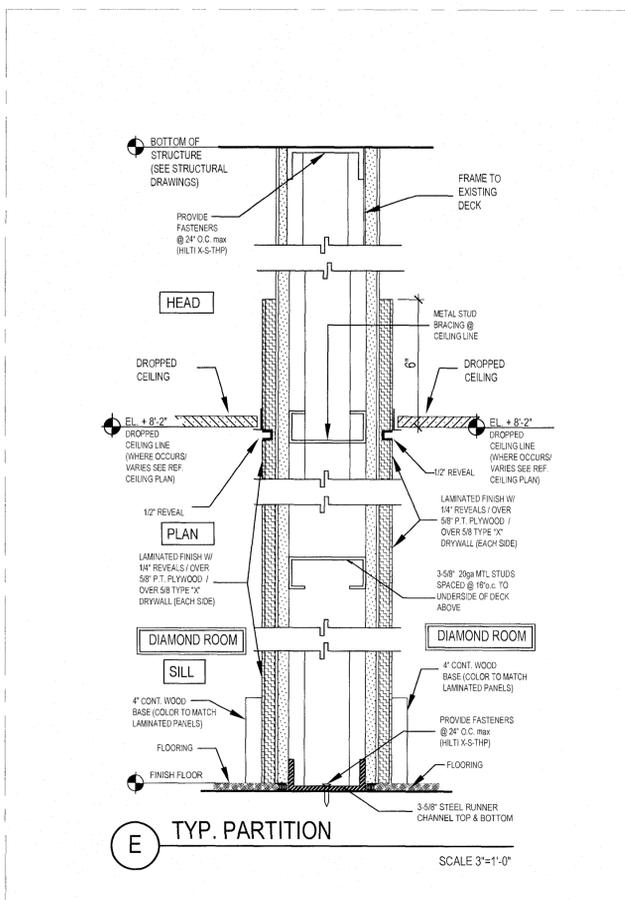
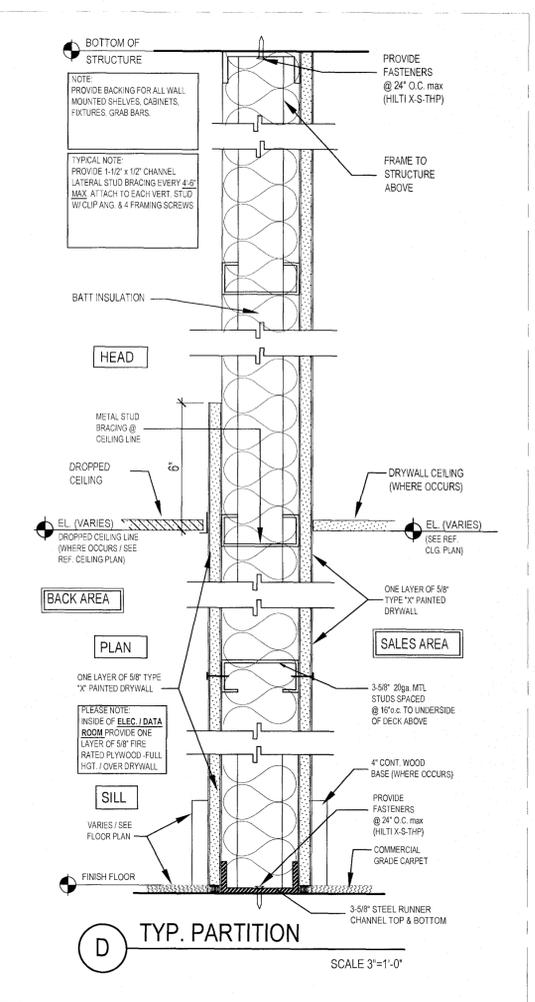
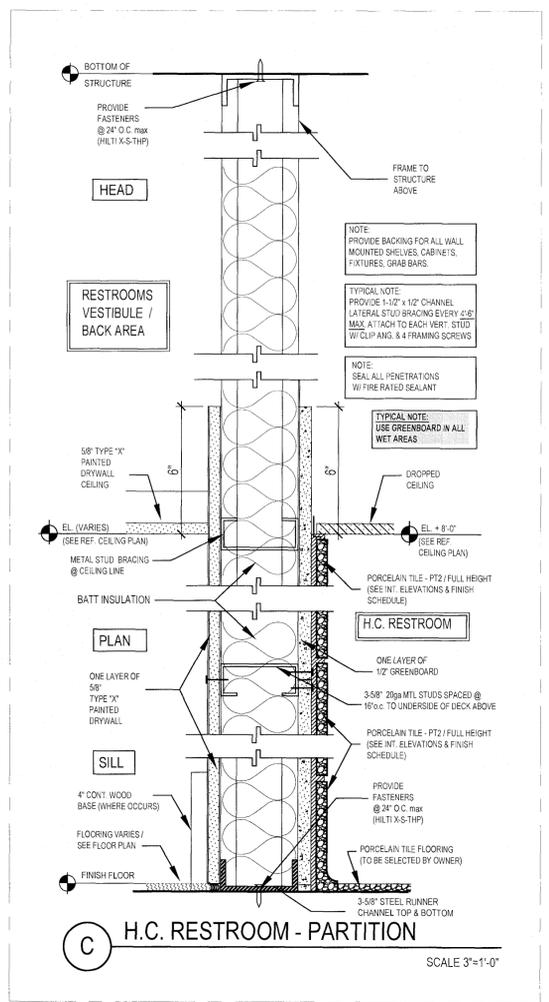
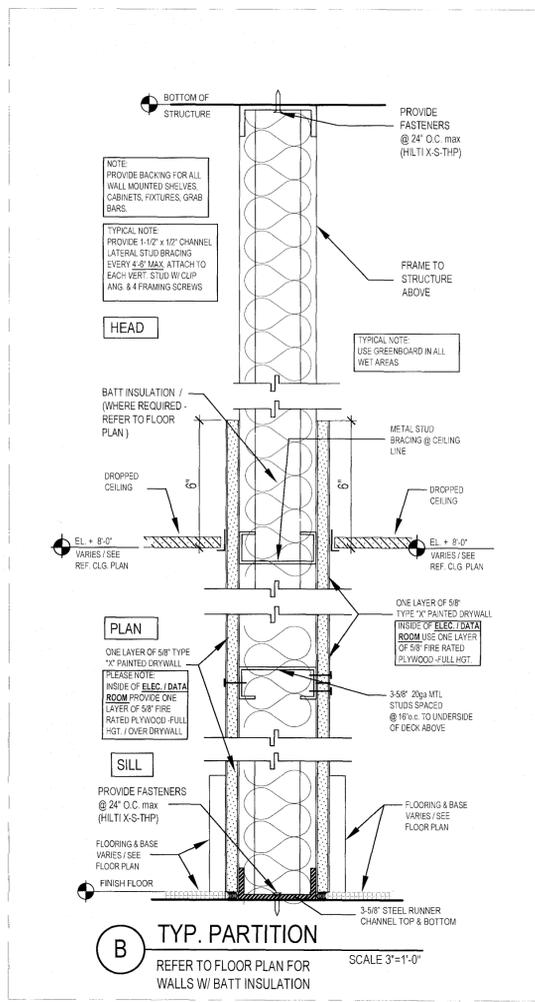
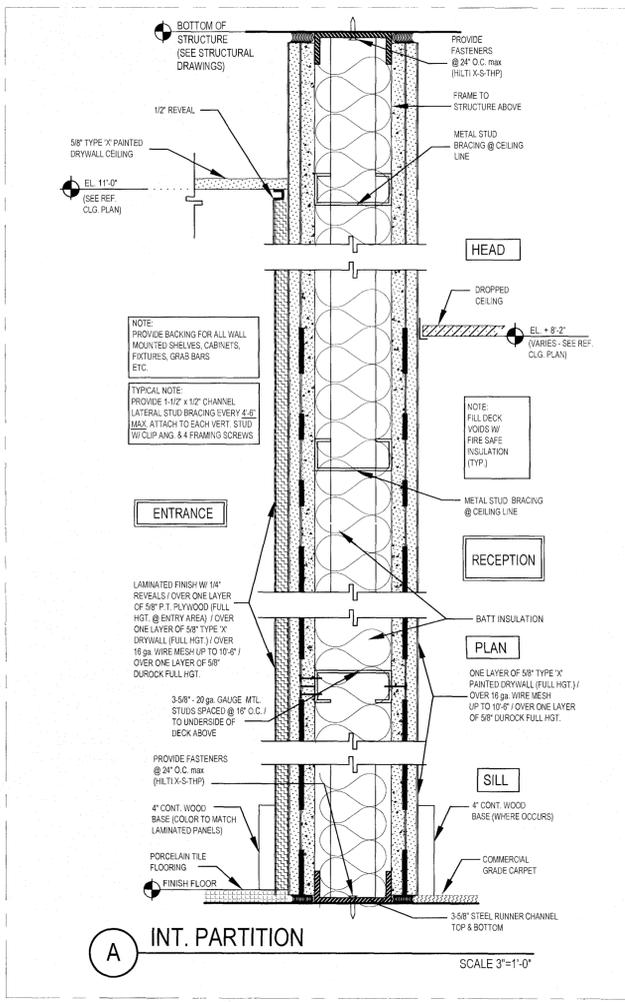
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 ISSUE DATE _____ 06/30/2023
 DRAWN BY/CHECKED BY _____ DT/GC
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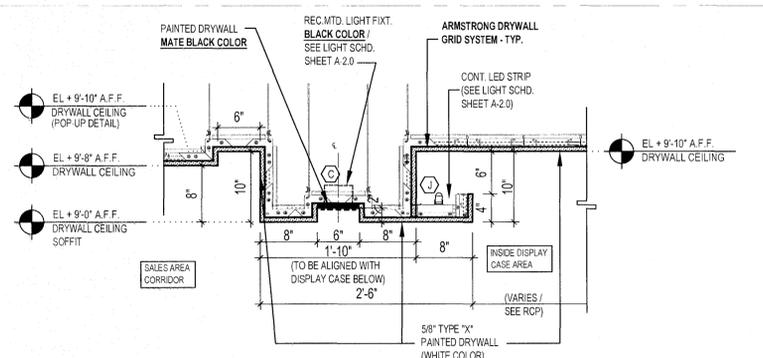
INTERIOR WALL SECTIONS
 SHEET NUMBER _____

A-9.0

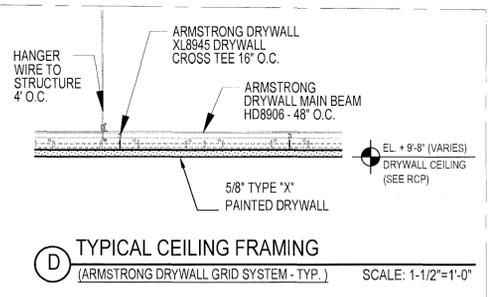
5000 PHILLIPS PARTNERSHIP, PC
 BUILDING A, SUITE 450
 ATLANTA, GEORGIA 30326

ISSUED FOR CONSTRUCTION

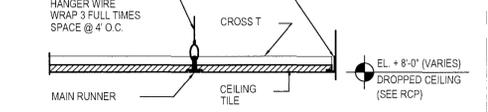




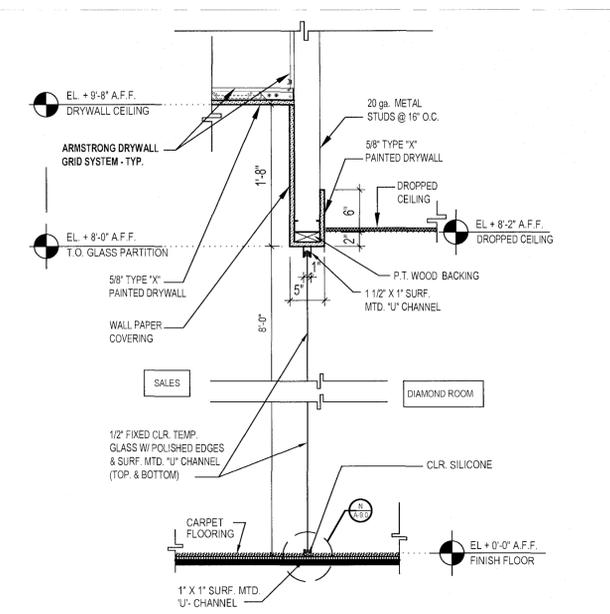
A CEILING DETAIL ABOVE LATERAL DISPLAY CASES
 (OPPOSITE SIDE SIMILAR)
 (ARMSTRONG DRYWALL GRID SYSTEM) SCALE: 1": 1'-0"



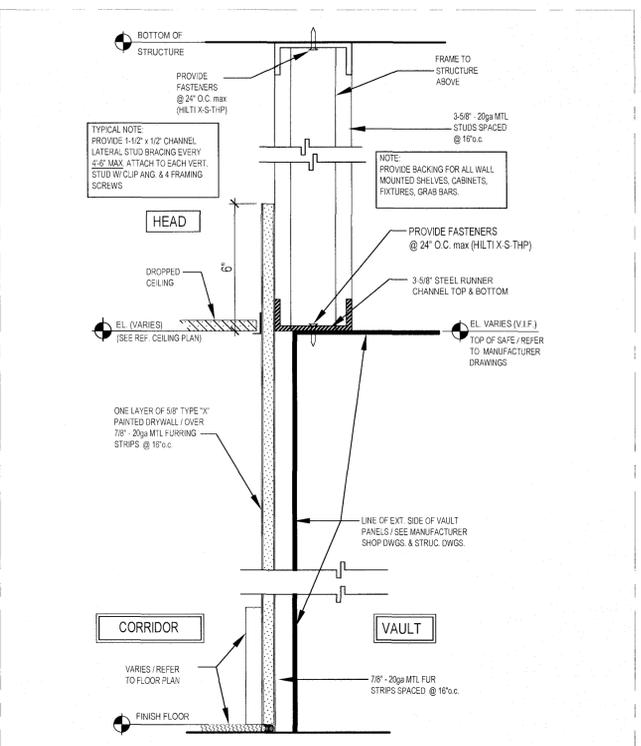
D TYPICAL CEILING FRAMING
 (ARMSTRONG DRYWALL GRID SYSTEM - TYP.) SCALE: 1-1/2"=1'-0"



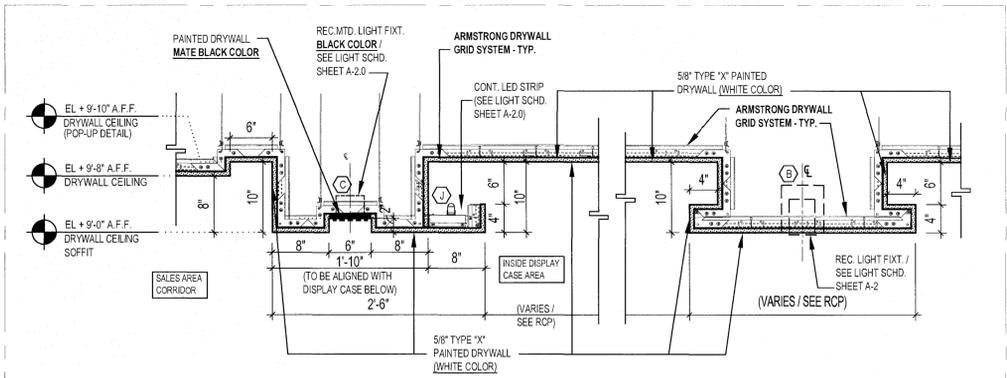
E TYP. SUSPENDED CEILING SCALE: 1-1/2"=1'-0"



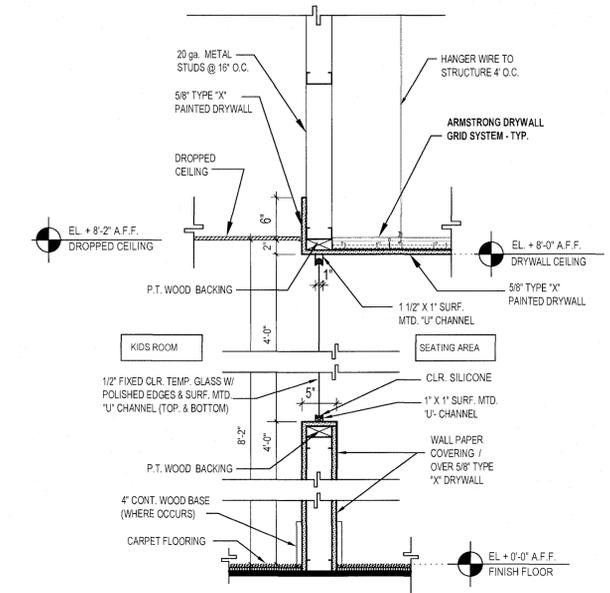
F GLASS PARTITION DETAIL
 (ARMSTRONG DRYWALL GRID SYSTEM) SCALE: 1": 1'-0"



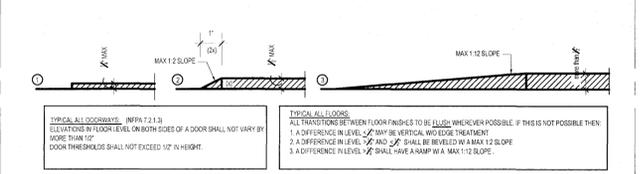
G VAULT PARTITION SCALE: 3"=1'-0"



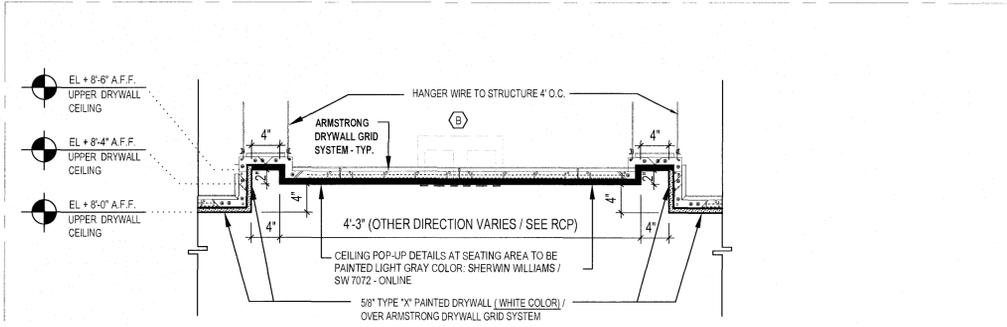
B CEILING DETAIL ABOVE ISLANDS & POS
 (OPPOSITE SIDE SIMILAR)
 (ARMSTRONG DRYWALL GRID SYSTEM) SCALE: 1": 1'-0"



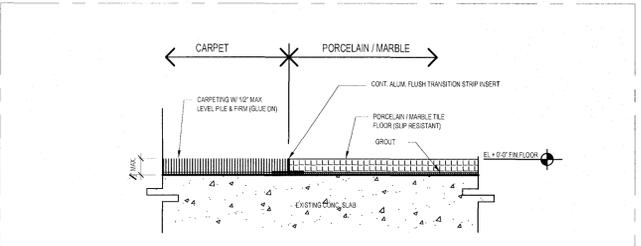
K LOW WALL PARTITION W/ GLASS DETAIL @ SEATING AREA
 (ARMSTRONG DRYWALL GRID SYSTEM)
 (REFER TO INT. ELEVATIONS & FINISH SCHEDULE FOR LOW WALL HEIGHT & FINISH MATERIALS) SCALE: 1": 1'-0"



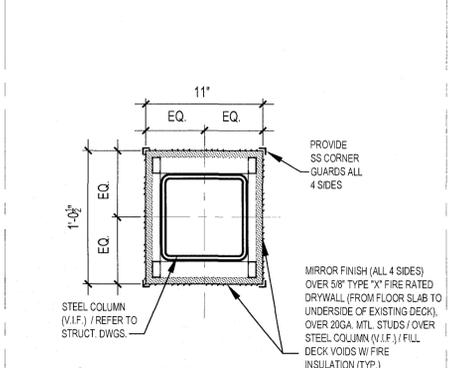
H TYP. MIN. REQ. FLOOR TRANSITIONS SCALE: N.T.S.



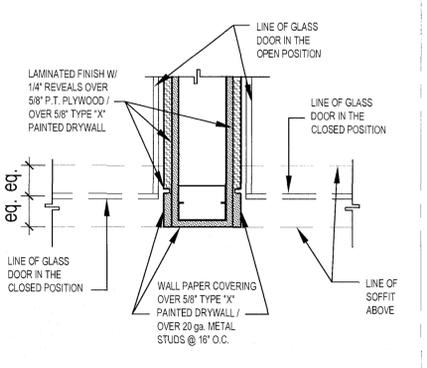
C CEILING DETAIL ABOVE SEATING AREA
 (OPPOSITE SIDE SIMILAR / REFER TO RCP FOR DIMENSIONS)
 (ARMSTRONG DRYWALL GRID SYSTEM - TYP.) SCALE: 1": 1'-0"



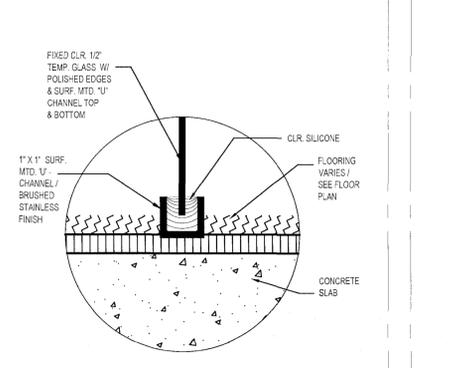
J FLOOR TRANSITION SCALE: 3"=1'-0"



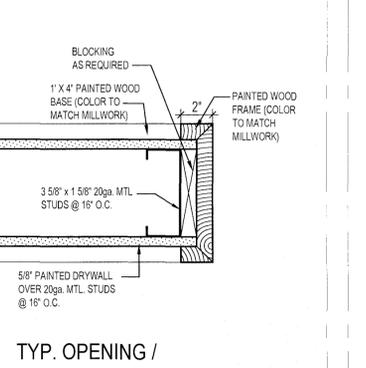
P COLUMN DETAIL SCALE: 1-1/2"=1'-0"



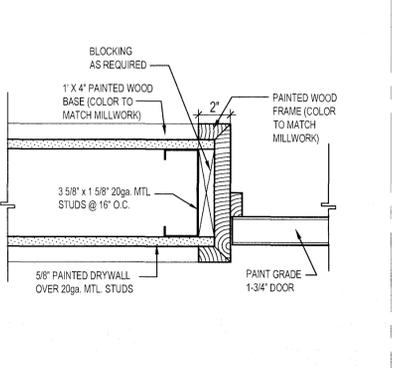
O WALL END DETAIL (TYP. AT DIAMOND ROOMS) SCALE: 1-1/2"=1'-0"



N DETAIL SCALE: N.T.S.



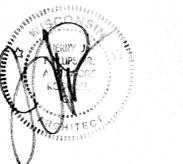
M TYP. OPENING / HEAD & JAMB DETAIL SCALE: 3"=1'-0"



L TYP. DOOR JAMB SCALE: 3"=1'-0"



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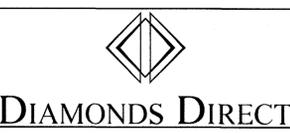


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DIAMONDS DIRECT
 2600 N Mayfair RD
 Wauwatosa, WI 53226



PHILLIPS JOB NUMBER _____ 2336402
 ISSUE DATE _____ 06/30/2023
 DRAWN BY/CHECKED BY _____ DT/GC
 DRAWING TITLE _____

GENERAL DETAILS
 SHEET NUMBER
A-10.0

590 PLEASURE DRIVE, OODYSSEY BUILDING A SUITE 470 ATLANTA, GEORGIA 30328

ISSUED FOR CONSTRUCTION

GRILLE/DIFFUSER SCHEDULE						
MARK	CFM	NECK SIZE	TYPE	MFG	MODEL	NOTES
A	0-100 101-200 201-400 401-600 601-800	6" 8" 10" 12" 14"	CEILING MOUNTED SQUARE SUPPLY DIFFUSER	TITUS	OMNI	1 - 5
B	0-125 126-250 251-400 401-600 601-900 901-1350 1351-2000	6X6 8X8 10X10 12X12 16X16 18X18 22X22	EGGCRATE RETURN AIR GRILLE	TITUS	50F	1, 2, 4, 5
C	0-50 51-75 76-100	2 3 4	1" SLOT 48" LONG LINEAR SUPPLY DIFFUSER	TITUS	ML-39	4 - 8
D	0-85 86-120 121-160	2 3 4	1" SLOT 48" LONG LINEAR RETURN GRILLE	TITUS	MLR-39	4 - 8

- NOTES:
1. PROVIDE WITH OPPOSED BLADE BACKDRAFT DAMPER.
 2. PROVIDE 24X24 FULLY LOUVERED FACE LAYIN MODULE WHERE LOCATED IN LAYIN CEILING.
 3. PROVIDE SQUARE TO ROUND NECK TRANSITION WHERE APPLICABLE.
 4. COORDINATE BORDER TYPES WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.
 5. PROVIDE WITH WHITE FINISH.
 6. PROVIDE WITH TITUS MPI-39 48" LENGTH MODULINEAR INSULATED PLENUM.
 7. PROVIDE WITH DURODYNE GGDOR INTERNAL ROUND GEAR DRIVEN CABLE OPERATED DAMPER.
 8. CFM PER LINEAR FOOT AND NUMBER OF SLOTS LISTED IN LIEU OF CFM AND NECK SIZE.

EXHAUST FAN SCHEDULE															
UNIT TYPE	IDENTIFIER	AREA SERVED	MANUFACTURER	MODEL	LOCATION	DRIVE	FAN TYPE	CFM	ESP IN WC	W	RPM	VOLTAGE	PHASES	NOTES	
EF	1	MEN	GREENHECK	SP-A90	CEILING	DIRECT	CEILING	70	0.25	15	900	120 V	1	1 - 3	
EF	2	WOMEN	GREENHECK	SP-A90	CEILING	DIRECT	CEILING	70	0.25	15	900	120 V	1	1 - 3	
EF	3	JAN	GREENHECK	SP-A90	CEILING	DIRECT	CEILING	70	0.25	15	900	120 V	1	1 - 3	
EF	4	JEWELERS WORK AREA	GREENHECK	SP-A510-VG	CEILING	DIRECT	CEILING	500	0.30	119	1500	120 V	1	1, 3, 4	

- NOTES:
1. PROVIDE WITH FAN SPEED CONTROLLER, BACKDRAFT DAMPER, AND DISCONNECT SWITCH.
 2. FAN SHALL BE INTERLOCKED WITH LIGHT SWITCH(ES) IN ROOM.
 3. GREENHECK IS THE BASIS OF DESIGN.
 4. FAN SHALL BE INTERLOCKED WITH RTU-1.

VENTILATION REQUIREMENT SCHEDULE														
SERVED BY	ROOM	SPACE TYPE	NUMBER OF PEOPLE	OUTDOOR AIRFLOW RATE REQ'D PER PERSON (R _p)	AREA (sf)	OUTDOOR AIRFLOW RATE REQ'D PER SF (R _s)	R _p x P _z	R _s x A _z	BREATHING ZONE OUTDOOR AIRFLOW (V _{BZ})	AIR DISTRIBUTION CONFIGURATION	ZONE AIR DIST. EFFECT. (E _z)	ZONE OUTDOOR AIRFLOW (V _{OZ} =V _{BZ} /E _z)	TOTAL OUTDOOR AIR INTAKE REQ'D (V _{OT})	TOTAL OUTDOOR AIR INTAKE PROVIDED
RTU-1 (EX)	BACK CORRIDOR	CORRIDORS	0	0	315	0.06	0	19	19	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	262	262	280
	CLERICAL STATIONS	OFFICE SPACE	7	5	514	0.06	35	31	66					
	EMPLOYEE LOUNGE	BREAK ROOMS (GENERAL)	3	5	121	0.06	15	8	23					
	JEWELERS WORK AREA	WOOD/METAL SHOP	1	10	195	0.18	10	36	46					
	MECH/ELEC	ELECTRICAL EQUIPMENT RM	0	0	147	0.06	0	9	9					
	STORAGE	STORAGE ROOMS	0	0	102	0.12	0	13	13					
	STORAGE	STORAGE ROOMS	0	0	61	0.12	0	8	8					
	VAULT	BANK VAULTS/SAFE DEPOSIT	1	5	143	0.06	5	9	14					
GIFT WRAP	OFFICE SPACE	1	5	97	0.06	5	6	11						
UNIT TOTAL									209					
RTU-2 (EX) and RTU-3 (EX)	MAIN SALES AREA	SALES (EXCEPT AS BELOW)	46	7.5	3047	0.12	345	366	711	CEILING SUPPLY OF WARM AIR 15°F OR MORE ABOVE SPACE TEMPERATURE AND CEILING RETURN	0.8	1102	1102	1205
	SEATING AREA	RECEPTION AREAS	6	5	195	0.06	30	12	42					
	DIAMOND ROOM 1	OFFICE SPACE	1	5	116	0.06	5	7	12					
	DIAMOND ROOM 2	OFFICE SPACE	1	5	116	0.06	5	7	12					
	DIAMOND ROOM 3	OFFICE SPACE	1	5	116	0.06	5	7	12					
	DIAMOND ROOM 4	OFFICE SPACE	1	5	147	0.06	5	9	14					
	ENTRY AREA	RECEPTION AREAS	4	5	147	0.06	20	9	29					
	RECEPTION	RECEPTION AREAS	3	5	116	0.06	15	7	22					
	KIDS ROOM	SPORTS ARENA (PLAY AREA)	4	0	90	0.3	0	27	27					
	MEN	NONE	0	0	74	0	0	0	0					
WOMEN	NONE	0	0	61	0	0	0	0						
UNIT TOTAL									881					

- NOTE:
1. REQUIRED OUTSIDE AIR CFM VALUES BASED ON ANSI/ASHRAE STANDARD 62.1-2019.

DUCTLESS SPLIT SYSTEM SCHEDULE																					
UNIT LABEL	AREA SERVED	MANUFACTURER	MODEL	MOUNTING LOCATION	NOM. TONS	COOLING CAPACITY		INDOOR UNIT					OUTDOOR UNIT					SEER [EER]	NOTE(S)		
						TC (MBH)	SC (MBH)	FAN		MCA (A)	WEIGHT (LBS)	CONDENSER FAN(S) QTY.	COMPRESSOR(S) QTY.	VOLTAGE (V)	PHASE	MCA	MOCP			WEIGHT (LBS)	
								TOTAL CFM	W												V/O
DSS-1/DCU-1	TECH. ROOM MECHANICAL/ELECTRICAL COMP./TEL	DAIKIN	PKA-A12HA6 / PUY-A12NHA6	WALL	1.0	12	9	320	30	208/1	0.33	28	1	1	208 V	1	13	15	85	15.2 [10.7]	1 - 5

- NOTES:
1. PROVIDE WITH R-410A REFRIGERANT.
 2. PROVIDE WITH DISCONNECT AND PROVIDE WITH THERMAL EXPANSION VALVE (TXV).
 3. PROVIDE WITH CRANKCASE HEATER, FILTER DRYER, ANTI-SHORT CYCLE KIT AND TIME DELAY RELAY.
 4. PROVIDE ACCESSORIES FOR UNIT TO OPERATE IN LOW AMBIENT CONDITIONS (DOWN TO 40°F).
 5. REFRIGERANT LINESET SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO PROVIDE LONG LINE SET AND IT WHERE REQUIRED BY MANUFACTURER. CONTRACTOR TO INCLUDE LINE SET SIZES AND LONG LINE SET ACCESSORIES (IF REQUIRED) IN SHOP DRAWINGS FOR REVIEW.



PHILLIPS

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PROJECT

DIAMONDS DIRECT

2600 N Mayfair RD
Wauwatosa, WI 53226

CLIENT



DIAMONDS DIRECT

PHILLIPS JOB NUMBER 2336402

ISSUE DATE 06/30/2023

DRAWN BY/CHECKED BY RHR / TAN

DRAWING TITLE

SCHEDULES - HVAC

SHEET NUMBER

M0.00

5901 PEACHTREE DUNWOODY RD.
BUILDING A, SUITE 450
ATLANTA, GEORGIA 30328

PHILLIPSPART.COM 770-394-1616

ISSUED FOR CONSTRUCTION



PHILLIPS

CONSULTANT

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DIAMONDS DIRECT

PHILLIPS JOB NUMBER 2336402

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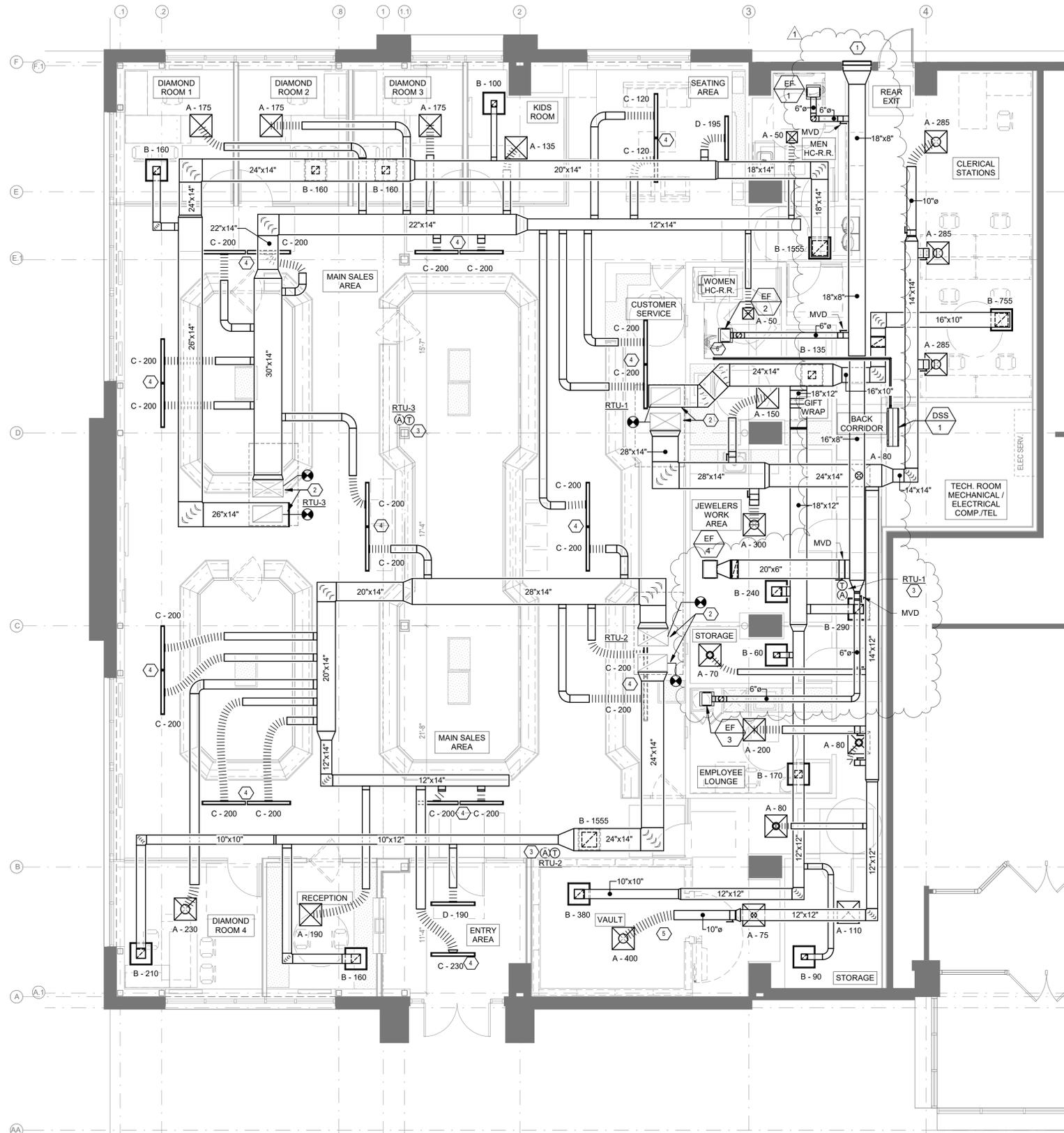
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DRAWING TITLE FLOOR PLAN - HVAC

SHEET NUMBER

M1.10

5901 PEACHTREE DUNWOODY RD.
BUILDING A, SUITE 450
ATLANTA, GEORGIA 30328
PHILLIPSPART.COM 770.394.1616



KEYED NOTES:

- 18X8 EXHAUST DUCT TO 30X18 SIDEWALL LOUVER (GREENHECK ESD-435 OR SIMILAR). MAINTAIN 3 FEET FROM OPERABLE OPENINGS AND 10 FEET FROM ALL OUTSIDE AIR INTAKES.
- CONNECT TO EXISTING SA AND RA DROPS FROM EXISTING RTU ON ROOF. INTERNALLY LINE THE FIRST 10' OF DUCT FROM THE EXISTING UNIT. REBALANCE TO CFMS INDICATED.
- MOUNT PROGRAMMABLE THERMOSTAT AT 42" A.F.F. COORDINATE EXACT LOCATION WITH ARCH PRIOR TO INSTALLATION. PROVIDE CONTROL WIRING FROM THERMOSTAT TO ASSOCIATED ROOFTOP AIR HANDLING UNIT AND CONNECT. PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET FOR SMOKE DETECTOR MOUNTED AT 42" A.F.F. ALIGN ANNUNCIATOR WITH THERMOSTAT SENSOR WHERE APPLICABLE. COORDINATE EXACT LOCATION OF NEW THERMOSTAT WITH ARCH PRIOR TO INSTALLATION.
- PROVIDE CABLE OPERATED DAMPER. REFER TO DETAIL 1/M4.01
- VERIFY SUPPLY AND RETURN AIR TERMINAL REQUIREMENTS WITH VALUT SUPPLIER AND INSTALLER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE REQUIREMENTS, LOCATION, AND ELEVATION PRIOR TO CONSTRUCTION. CONNECT AIR TERMINALS TO SUPPLY AND RETURN AIR MAIN.
- ROUTE REFRIGERANT LINES FROM AHU UP TO CONDENSER ON ROOF. REFER TO M3.10 FOR CONTINUATION.

GENERAL NOTES:

- OBTAIN MANUFACTURER'S DATA ON ALL EQUIPMENT. THE DIMENSIONS OF WHICH MAY AFFECT INSTALLATION. USE THIS DATA TO COORDINATE PROPER SERVICE CHARACTERISTICS, ENTRY LOCATIONS, ETC., AND TO ENSURE MINIMUM CLEARANCES ARE MAINTAINED.
- ANY WALLS, CEILINGS, EQUIPMENT, ETC., DAMAGED BY THE CONTRACTOR IN CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED, RESTORED AND/OR REPLACED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION, OR TO PERFORM ITS INTENDED FUNCTION, AT NO ADDITIONAL COST TO OWNER.
- ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. REPAIR, CLEAN, AND REPLACE EXISTING EQUIPMENT, DEVICES, AND DUCTWORK AS NEEDED.
- SPIN SIZES SHALL BE EQUAL TO DIFFUSER CONNECTION SIZE. SEE DIFFUSER SCHEDULE.

ABBREVIATIONS - MECHANICAL

ACC	ABOVE ACCESSIBLE CEILING
ACT	ABOVE COUNTER TOP
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
APR	AIR PRESSURE RESISTANT
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
BTU	BRITISH THERMAL UNIT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CONT	CONTINUATION
CU	CONDENSING UNIT
EF	EXHAUST FAN
EXIST	EXISTING
FD	FIRE DAMPER
FL	FLOOR
FPM	FEET PER MINUTE
GALV	GALVANIZED
HP	HORSEPOWER

ABBREVIATIONS - MECHANICAL

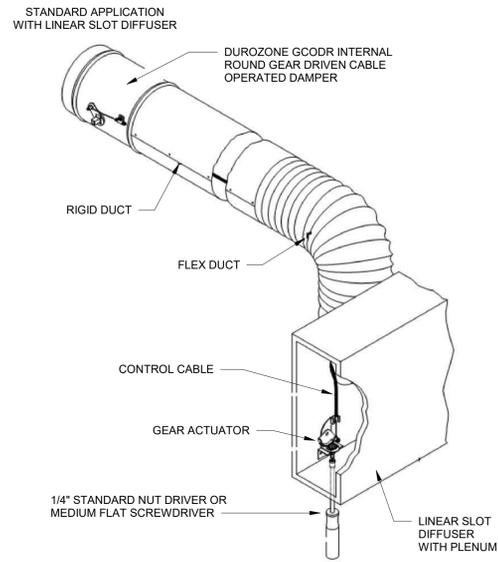
MACU	MAKE UP AIR CONDENSING UNIT
MAU	MAKE UP AIR UNIT
MEZZ	MEZZANINE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SD	SMOKE DETECTOR
SS	STAINLESS STEEL
T.TSTAT	THERMOSTAT
TEMP	TEMPERATURE
TYP	TYPICAL
UC	3/4" DOOR UNDERCUT
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
WC	WATER COLUMN
WG	INCH WATER GAUGE

HVAC LEGEND:

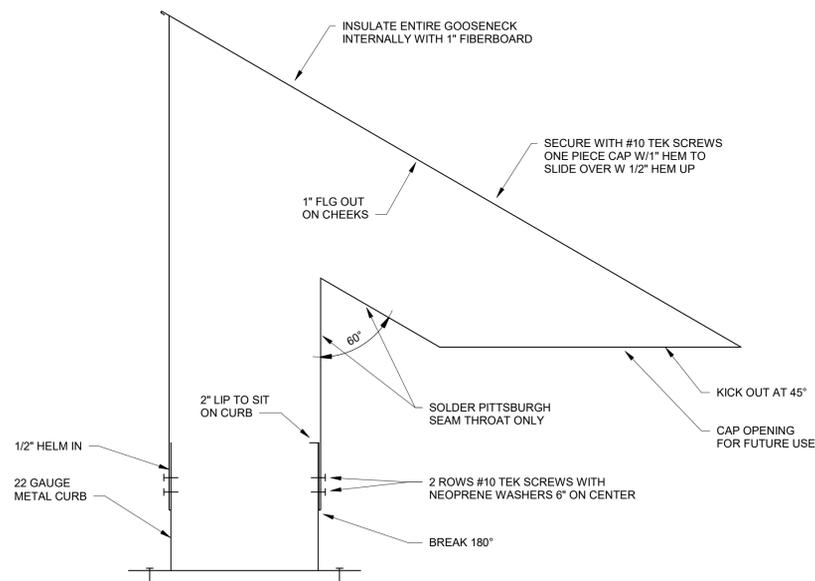
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- RIGID DUCTWORK (WIDTH/DEPTH)
- FLEX DUCTWORK (DIAMETER)
- ELBOW WITH TURNING VANES
- MANUAL VOLUME DAMPER
- DUCT MOUNTED SMOKE DETECTOR
- THERMOSTAT
- CONNECT TO EXISTING
- LIMIT OF DEMOLITION

1 FLOOR PLAN - HVAC
M1.10 3/16" = 1'-0"

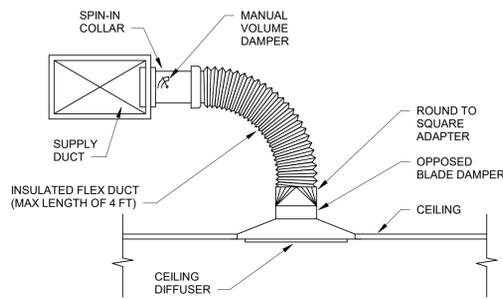
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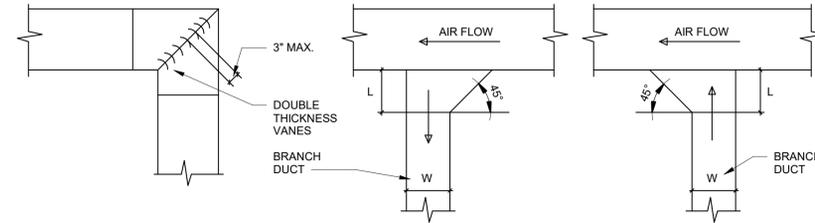
1 **DETAIL - GEAR DRIVEN CABLE OPERATED DAMPER**
M4.01 NOT TO SCALE



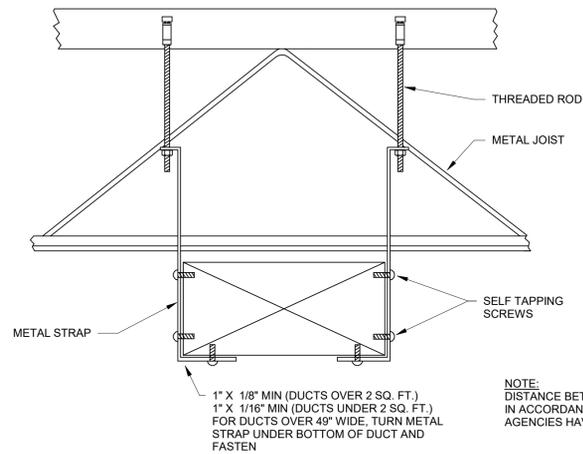
5 **DETAIL - REFRIGERANT LINES THROUGH ROOF**
M4.01 NOT TO SCALE



2 **DETAIL - DIFFUSER CONNECTION**
M4.01 NOT TO SCALE

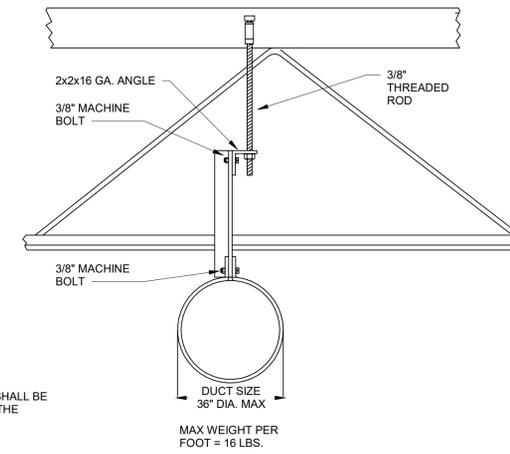


3 **DETAIL - DUCTWORK**
M4.01 NOT TO SCALE



DUCTWORK SUPPORT DETAIL
NOT TO SCALE

MAX. SIDE INCHES	RECTANGULAR DUCTS	
	MIN. GALV. SHT. GAUGE	ALUMINUM MIN. B&S GAUGE
THROUGH 12	26 (0.022 IN.)	24 (0.020 IN.)
13 THROUGH 30	24 (0.028 IN.)	22 (0.025 IN.)
31 THROUGH 54	22 (0.034 IN.)	20 (0.032 IN.)
55 THROUGH 84	20 (0.040 IN.)	18 (0.040 IN.)
OVER 84	18 (0.052 IN.)	16 (0.051 IN.)



ROUND DUCT SUPPORT DETAIL
NOT TO SCALE

DIAMETER INCHES	ROUND DUCTS LONGITUDINAL SEAM		
	SPIRAL SEAM DUCT STEEL MIN. GALV. SHT. GAUGE	DUCT STEEL MIN. GALV. SHT. GAUGE	FITTINGS STEEL MIN. GALV. SHT. GAUGE
THROUGH 12	28 (0.0219 IN.)	26 (0.022 IN.)	26 (0.022 IN.)
13 THROUGH 18	26 (0.022 IN.)	24 (0.028 IN.)	24 (0.028 IN.)
19 THROUGH 28	24 (0.028 IN.)	22 (0.034 IN.)	22 (0.034 IN.)
29 THROUGH 36	22 (0.034 IN.)	20 (0.040 IN.)	20 (0.040 IN.)
37 THROUGH 52	20 (0.040 IN.)	18 (0.052 IN.)	18 (0.052 IN.)

4 **DETAIL - DUCT SUPPORT**
M4.01 NOT TO SCALE



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PHILLIPS JOB NUMBER 2336402

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DETAILS - HVAC

SHEET NUMBER

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5901 PEACHTREE DUNWOODY RD.
BUILDING A, SUITE 450
ATLANTA, GEORGIA 30328

PHILLIPSPART.COM 770-394-1616

ISSUED FOR CONSTRUCTION

HVAC SPECIFICATIONS

GENERAL

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERRORS IN FABRICATION, FOR THE CORRECT FITTING, INSTALLATION AND ERECTION OF THE VARIOUS MECHANICAL SYSTEMS AS SHOWN ON THE DRAWINGS.
2. THE MECHANICAL CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN AND PAY FOR ALL PERMITS, GOVERNMENT SALES TAXES AND INSPECTIONS; FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL DEPARTMENTS AND OR THE APPROPRIATE MUNICIPALITY AND/OR UTILITY COMPANY HAVING JURISDICTION, WHETHER INDICATED, SPECIFIED OR NOT. HE SHALL ALSO OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK AND DELIVER SAME TO THE GENERAL CONTRACTOR BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.
3. IGNORANCE OF CODES, RULES, REGULATION, LAWS, ETC. SHALL NOT RENDER THE MECHANICAL CONTRACTOR IRRESPONSIBLE FOR COMPLIANCE.
4. CONTRACTOR SHALL BE VERSED IN ALL CODES, RULES AND REGULATIONS PERTINENT TO HIS PART OF THE WORK PRIOR TO SUBMISSION OF A PROPOSAL.
5. THE MECHANICAL CONTRACTOR SHALL INCLUDE IN HIS WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS OR DRAWINGS IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, SHOWN ON THE DRAWINGS AND/OR SPECIFIED.
6. ALL MATERIALS AND EQUIPMENT FOR THE ELECTRICAL PORTION OF THE MECHANICAL SYSTEMS SHALL BEAR THE APPROVED LABEL OF, OR SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC.
7. ALL HEATING, VENTILATION AND AIR CONDITIONING WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE STATE OR LOCAL BUILDING CODE AND AMENDMENTS THERETO, THE LATEST STANDARDS RECOGNIZED BY THE AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS AND THE NATIONAL FIRE PROTECTION ASSOCIATION.
8. WHERE MINIMUM CODE REQUIREMENTS ARE EXCEEDED IN THE DESIGN OF THE HVAC SYSTEMS, THE DESIGN SHALL GOVERN.
9. THE MECHANICAL CONTRACTOR SHALL ENSURE THAT HIS WORK IS ACCOMPLISHED IN ACCORDANCE WITH OSHA STANDARDS AND THAT HE CONDUCTS HIS WORK AND THE WORK OF HIS PERSONNEL ON THIS PROJECT IN ACCORDANCE WITH SAME.
10. ALL WORK RELATING TO THE HANDICAPPED SHALL BE IN ACCORDANCE WITH REGULATIONS CURRENTLY ENFORCED BY THE AUTHORITY HAVING JURISDICTION.

DRAWINGS AND SPECIFICATIONS

1. CONTRACT DRAWINGS FOR WORK UNDER THIS SECTION ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTS, PIPING AND THE APPROXIMATE SIZE AND LOCATION OF EQUIPMENT AND OUTLETS. THE CONTRACTOR SHALL FOLLOW THESE DRAWINGS IN LAYING OUT HIS WORK AND SHALL VERIFY SPACES IN WHICH HIS WORK WILL BE INSTALLED, INDICATING TO THE ARCHITECT WHERE ANY CONFLICTS OR OVERLAPPING OF SYSTEMS OCCUR.
2. WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN INDICATED LOCATIONS AND ARRANGEMENT, PROPOSED DEPARTURES SHALL BE SUBMITTED WITH DETAILED DRAWINGS TO THE ARCHITECT FOR APPROVAL BEFORE ANY OF THE PROPOSED WORK IS COMMENCED.
3. THE DRAWINGS AND THE SPECIFICATIONS ARE INTENDED TO INDICATE COMPLETE AND WORKING SYSTEMS, UNLESS SPECIFICALLY INDICATED TO THE CONTRARY. THE WORK INCLUDES THE FURNISHING, INSTALLING AND CONNECTING OF A COMPLETE WORKING INSTALLATION IN EACH CASE TO THE FULL EXTENT SET FORTH IN THE DRAWINGS AND HEREIN SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE FUNCTIONING SYSTEM, UNLESS SPECIFICALLY NOTED OTHERWISE.
4. THE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED AS COOPERATIVE. WORK AND MATERIAL INCLUDED IN EITHER, THOUGH NOT MENTIONED IN BOTH, SHALL BE A PART OF THE WORK TO BE ACCOMPLISHED AND SHALL BE CARRIED OUT COMPLETELY IN AS THOROUGH A MANNER AS IF COVERED BY BOTH.

EQUIPMENT DESIGN AND INSTALLATION

1. THE DESIGN, MANUFACTURE, TESTING AND INSTALLATION OF ALL APPARATUS AND MATERIALS FURNISHED UNDER THE REQUIREMENTS OF THESE SPECIFICATIONS SHALL CONFORM TO THE APPLICABLE STANDARD RULES OF THE FOLLOWING. WHERE MATERIALS ARE NOT SPECIFICALLY REFERRED TO, BUT ARE REQUIRED, THEY SHALL MEET THE REQUIREMENTS OF THE APPLICABLE CODE.
 - ARI -AIR CONDITIONING & REFRIGERATION INSTITUTE
 - ASHRAE -AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS
 - ASME -AMERICAN SOCIETY OF MECHANICAL ENGINEERS
 - ASTM -AMERICAN SOCIETY OF TESTING MATERIALS
 - EPA -ENVIRONMENTAL PROTECTION AGENCY
 - IBC -2015 INTERNATIONAL BUILDING CODE, BUILDING, FIRE, FUEL GAS AND MECHANICAL, 2018
 - WISCONSIN UNIFORM PLUMBING CODE
 - NEC -NATIONAL ELECTRICAL CODE
 - NEMA -NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
 - NFPA -NATIONAL FIRE PROTECTION ASSOCIATION
 - OSHA -OCCUPATIONAL SAFETY AND HEALTH ADM.
 - SMACNA -SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
 - UL -UNDERWRITERS LABORATORIES, INC.

2. UNLESS OTHERWISE SPECIFIED AND/ OR APPROVED, EQUIPMENT AND MATERIALS OF THE SAME TYPE AND USED FOR THE SAME PURPOSE, SHALL BE PRODUCTS OF THE SAME MANUFACTURER.
3. THE COMPONENTS AND COMPLETED ASSEMBLIES OF ALL EQUIPMENT FURNISHED SHALL BE U.L. LISTED, IN AN EFFORT TO ENSURE QUALITY PRODUCTS ON THE PROJECT.

TESTS

1. ALL TESTS REQUIRED TO ESTABLISH THE ADEQUACY, QUALITY, SAFETY, COMPLETED STATUS AND SUITABLE OPERATION OF EACH SYSTEM AND ALL COMPONENTS THEREOF SHALL BE MADE IN THE PRESENCE OF AND TO THE SATISFACTION OF THE ARCHITECT OR HIS AUTHORIZED REPRESENTATIVE AND OTHER REPRESENTATIVES OF STATE AND LOCAL GOVERNMENT. ALL INSTRUMENTS, LABOR AND EXPERT SERVICE NECESSARY TO CONDUCT THESE TESTS SHALL BE SUPPLIED BY THE CONTRACTOR; POWER AND FUEL WILL BE FURNISHED BY THE OWNER.

2. THE FINAL INSPECTION AND TESTS ARE TO BE MADE ONLY AFTER THE OWNER IS SATISFIED THAT THE WORK DESCRIBED IN THESE SPECIFICATIONS HAS BEEN COMPLETELY INSTALLED IN ACCORDANCE WITH THE TRUE SPIRIT AND INTENT OF THESE SPECIFICATIONS AND THAT COMPLETE PRELIMINARY TESTS WERE MADE WHICH INDICATE ADEQUACY, QUALITY, COMPLETION AND SATISFACTORY OPERATION. THE ACCEPTANCE OF THE WORK HEREIN SPECIFIED, SHALL NOT IN ANY WAY PREJUDICE THE OWNER'S RIGHT TO DEMAND REPLACEMENT OF DEFECTIVE MATERIAL AND/OR WORKMANSHIP.

GUARANTEE AND SERVICE

1. ALL EQUIPMENT SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE, AS EVIDENCED BY DATE OF CERTIFICATE FOR FINAL PAYMENT.
2. IN ADDITION TO THE GUARANTEE, THE CONTRACTOR SHALL PROVIDE ALL REPAIR AND ADJUSTMENT SERVICE NECESSARY FOR THE PROPER OPERATION OF THE ENTIRE SYSTEM FOR A PERIOD OF ONE (1) YEAR AFTER THE SYSTEM IS PUT INTO OPERATION (CONCURRENT WITH THE GUARANTEE). UPON RECEIPT OF NOTICE FROM THE OWNER'S REPRESENTATIVE OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT DURING THE GUARANTEE PERIOD, THE AFFECTED PART SHALL BE REPLACED PROMPTLY WITH A NEW PART WITHOUT COST TO THE OWNER. UPON FAILURE TO TAKE ACTION WITHIN 48 HOURS AFTER BEING NOTIFIED, THE WORK WILL BE ACCOMPLISHED BY THE OWNER AT THE EXPENSE OF THE CONTRACTOR.

CONTRACTOR FURNISHED DRAWINGS, DESCRIPTIVE DATA AND MANUALS

1. IN ACCORDANCE WITH THE GENERAL CONDITIONS, SHOP DRAWINGS SHALL BE SUBMITTED ON ALL UNITS OF PREFABRICATED MATERIALS.

DEFINITIONS

1. ALL DOCUMENTS PERTINENT TO THE QUALITY AND QUANTITY OF WORK TO BE PERFORMED ON THE PROJECT, INCLUDES BUT NOT LIMITED TO: PLANS, SPECIFICATIONS, INSTRUCTIONS TO BIDDERS, GENERAL AND SPECIAL CONDITIONS, ADDENDA, ALTERNATES, LIST OF MATERIALS, LIST OF SUB-CONTRACTORS, UNIT PRICES, SHOP DRAWINGS, FIELD ORDERS, CHANGE ORDERS, COST BREAKDOWN, PERIODICAL PAYMENT REQUESTS, ETC.
2. IT IS THE INTENTION OF THESE SPECIFICATIONS AND ALL ASSOCIATED DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE".
3. DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF SYSTEMS, EQUIPMENT, MATERIALS, ETC., SHALL BE INCLUDED IN THE WORK, THE SAME AS IF HEREIN SPECIFIED OR INDICATED.

HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT

1. STEEL HANGER RODS MAY BE THREADED BOTH ENDS, THREADED ONE END, OR CONTINUOUS THREADED.
2. INSERTS SHALL BE MALLEABLE IRON CASE OF GALVANIZED STEEL SHELL AND EXPANDER PLUG FOR THREADED CONNECTION WITH LATERAL ADJUSTMENT. TOP SLOT FOR REINFORCING RODS, LUGS FOR ATTACHING TO FORMS; SIZE INSERTS TO SUIT THREADED HANGER RODS.
3. BEAM CLAMPS SHALL HAVE MALLEABLE IRON JAWS, STEEL BOLT OR TIE ROD AND NUT.
4. PRIME COAT EXPANDED STEEL HANGERS AND SUPPORTS. HANGERS AND SUPPORTS LOCATED IN CRAWL SPACES, PIPE SHAFTS, AND SUSPENDED CEILING SPACES ARE NOT CONSIDERED EXPOSED.
5. PROVIDE INSERTS FOR SUSPENDING HANGERS FROM REINFORCED CONCRETE SLABS AND SIDES OF REINFORCED CONCRETE BEAMS.
6. PROVIDE HOOKED ROD TO CONCRETE REINFORCEMENT SECTION FOR INSERTS CARRYING PIPE OVER 4 INCHES.
7. WHERE CONCRETE SLABS FORM FINISHED CEILING, PROVIDE INSERTS TO BE FLUSH WITH SLAB SURFACE.
8. WHERE INSERTS ARE OMITTED, DRILL THROUGH CONCRETE SLAB FROM BELOW AND PROVIDE THROUGH-BOLT WITH RECESSED SQUARE STEEL PLATE AND NUT RECESSED INTO AND GROUTED FLUSH WITH SLAB.

CONTROLS

1. PROVIDE THERMOSTAT MOUNTED AT 48" AFF WITH AUTOMATIC HEATING/COOLING SELECTION AND FAN ON/OFF/AUTO SWITCH. THERMOSTAT SHALL BE ONE STAGE COOLING AND ONE OR TWO STAGE HEATING AS REQUIRED.
2. ON A CALL FOR COOLING, THERMOSTAT SHALL CYCLE COMPRESSOR ON AND ENERGIZE THE AHU FAN MOTOR.
3. ON A CALL FOR HEATING, THERMOSTAT SHALL CYCLE AHU FAN AND HEATING COILS, WITH STAGING AS SHOWN ON DRAWINGS.
4. PROVIDE FLOW SWITCH IN SUPPLY AIR PLENUM THAT WILL NOT ALLOW HEATERS TO BE ENERGIZED UNTIL AIR FLOW IS PROVEN.

DUCTWORK

1. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. FOR LINED DUCTS, MAINTAIN SIZES INSIDE LINING.
2. TO BE NON-COMBUSTIBLE OR CONFORMING TO REQUIREMENTS FOR CLASS 1 AIR DUCT MATERIALS, OR UL 181.
3. ALL DUCT MATERIAL AND COVERING SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84.
4. STEEL DUCTS SHALL BE ASTM A525 OR ASTM A527 GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY, HAVING ZINC COATING OF 1.25 OZ. PER SQ.FT. FOR EACH SIDE IN CONFORMANCE WITH ASTM A90.
5. FLEXIBLE DUCTS SHALL BE INTERLOCKING SPIRAL OF GALVANIZED STEEL, OR FABRIC SUPPORTED ON HELICALLY WOUND SPRING STEEL WIRE. FLEXIBLE DUCTS SHALL CONFORM TO UL 181. WORKING PRESSURE UP TO 4" W.G. MAXIMUM VELOCITY, MAXIMUM LENGTH PER RUN SHALL BE 20 FEET.
6. INSULATED FLEXIBLE DUCT SHALL BE FLEXIBLE DUCT WRAPPED WITH FLEXIBLE GLASS FIBER INSULATION, ENCLOSED BY SEAMLESS ALUMINUM PIGMENTED PLASTIC VAPOR BARRIER JACKET.
7. FASTENERS MAY BE RIVETS, BOLTS OR SHEET METAL SCREWS.
8. SEALANT MUST BE NON-HARDENING, WATER RESISTANT, FIRE RESISTIVE, COMPATIBLE WITH MATING MATERIALS; LIQUID USED ALONG OR WITH TAPE, OR HEAVY MASTIC.
9. LOCATE DUCTS WITH SUFFICIENT SPACE AROUND EQUIPMENT TO ALLOW NORMAL OPERATING AND MAINTENANCE ACTIVITIES.
10. DURING CONSTRUCTION, PROVIDE TEMPORARY CLOSURES OF METAL OR TAPED POLYETHYLENE ON OPEN DUCTWORK TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM.

LOW PRESSURE DUCTWORK

1. FABRICATE AND SUPPORT IN COMPLETE ACCORDANCE WITH SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS AND ASHRAE HANDBOOKS, LATEST EDITIONS, EXCEPT AS INDICATED. PROVIDE DUCT MATERIAL, GAGES, REINFORCING, AND SEALING FOR OPERATING PRESSURES INDICATED.
2. SIZE ROUND DUCTS INSTALLED IN PLACE OF RECTANGULAR DUCTS IN ACCORDANCE WITH ASHRAE TABLE OF EQUIVALENT RECTANGULAR AND ROUND DUCTS. NO VARIATION OF DUCT CONFIGURATION OR SIZES PERMITTED EXCEPT BY WRITTEN PERMISSION.
3. CONSTRUCT T'S, BENDS AND ELBOWS WITH RADIUS OF NOT LESS THAN 1-1/2 TIMES WIDTH OF DUCT ON CENTERLINE. WHERE NOT POSSIBLE AND WHERE RECTANGULAR ELBOWS ARE USED, PROVIDE TURNING VANES.
4. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE WHEREVER POSSIBLE. DIVERGENCE UPSTREAM OF EQUIPMENT SHALL NOT EXCEED 30 DEGREES; CONVERGENCE DOWNSTREAM SHALL NOT EXCEED 30 DEGREES.
5. USE CRIMP JOINTS WITH OR WITHOUT BEAD FOR JOINING ROUND DUCT SIZES 8 INCHES AND SMALLER WITH CRIMP IN DIRECTION OF AIR FLOW.

INSULATION

1. INTERNAL SHALL BE GLASS FIBER; ANSI/ASTM C553, 1.5 LB./CU. FT. MINIMUM DENSITY. INTERIOR SURFACE EXPOSED TO AIR STREAM SHALL HAVE THERMOSETTING ACRYLIC POLYMER OR LINER WITH EPA REGISTERED BIOCIDES RATED FOR MAXIMUM 4000 FPM AIR VELOCITY. MINIMUM INSTALLED R - VALUE OF 6.0. UNLESS DUCT IS INSTALLED IN MECHANICALLY COOLED SPACE OR BETWEEN FLOORS, IN WHICH CASE THE INSTALLED R - VALUE MAY BE 4.2. DETERMINE R - VALUES AT 75°F.
2. EXTERNAL SHALL BE FLEXIBLE OR RIGID GLASS FIBER; ANSI/ASTM C612 COMMERCIAL GRADE. MINIMUM INSTALLED R - VALUE OF 6.0. UNLESS DUCT IS INSTALLED IN MECHANICALLY COOLED SPACE OR BETWEEN FLOORS, IN WHICH CASE THE INSTALLED R - VALUE MAY BE 4.2. DETERMINE R-VALUES AT 75°F. PROVIDE WITH FOIL SCRIM FACING.
3. INSULATION MATERIAL AND JACKETS SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84.
4. ADHESIVES MUST BE WATERPROOF FIRE-RETARDANT TYPE.
5. LAGGING ADHESIVE MUST BE FIRE RESISTIVE TO ASTM E84, NFPA 255, UL723.
6. IMPALE ANCHORS SHALL BE GALVANIZED STEEL, 12 GAGE, SPOT WELDED OR SELF-ADHESIVE PAD. NO ANCHORS SHALL PENETRATE DUCT WALLS.
7. JOINT TAPE SHALL BE GLASS FIBER CLOTH, OPEN MESH.
8. TIE WIRE SHALL BE ANNEALED STEEL, 16 GAGE.
9. INSTALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
10. FOR INTERNAL APPLICATION, ADHERE INSULATION WITH ADHESIVE FOR 100 PERCENT COVERAGE. SECURE INSULATION WITH MECHANICAL FASTENERS ON 15 INCH CENTERS MAXIMUM ON TOP AND SIDE OF DUCTWORK WITH DIMENSION EXCEEDING 20 INCHES. SEAL AND SMOOTH JOINTS. DO NOT USE NAIL-TYPE FASTENERS. SEAL VAPOR BARRIER PENETRATIONS BY MECHANICAL FASTENERS WITH VAPOR BARRIER ADHESIVE.
11. DUCTWORK DIMENSIONS INDICATED ARE NET INSIDE DIMENSIONS REQUIRED FOR AIR FLOW.
12. SUPPLY AND RETURN DUCTS SHALL BE INSULATED.
13. OUTSIDE AIR DUCTS SHALL BE FLEXIBLE OR GALV. STEEL, EXTERNALLY INSULATED TO R - VALUE OF 4.5 (6.0 NOT REQUIRED).
14. INTERIOR EXHAUST DUCT FROM TOILET ROOMS AND DRYER SHALL NOT REQUIRE INSULATION.

HANGERS

1. ALL DUCT HANGERS IN DIRECT CONTACT WITH GALVANIZED DUCT SHALL BE GALVANIZED STEEL.
2. DUCT HANGERS MAY BE DIRECTLY ATTACHED TO DUCTS. DUCTS SHALL BE HUNG BY ANGLES OR STRAPS AS DETAILED ON DRAWINGS. RODS, STRAPS OR ANGLES MAY BE USED IN TRAPEZE HANGERS.
3. WHERE TRAPEZE HANGERS ARE USED, THE BOTTOM OF THE DUCT SHALL BE SUPPORTED TO ANGLE SIZED AS 1" X 1" X 1/8" FOR DUCTS UP TO 34" (FOR ROUND DUCTS, THE ANGLE SHALL CONFORM TO THE BOTTOM 120 DEGREES OF THE DUCT).
4. ALL HANGERS SHALL BE SUFFICIENTLY CROSS-BRACED TO ELIMINATE, IN THE OPINION OF THE ARCHITECT, EXCESSIVE SWAY. WHEREVER DUCTWORK CONTAINS FILTER SECTIONS, COILS, FANS OR OTHER HEAVY EQUIPMENT (EXCLUDING REGISTERS, GRILLES, DIFFUSERS, SPLITTER DAMPERS, ETC.) SUCH EQUIPMENT SHALL BE HUNG INDEPENDENTLY OF THE DUCTWORK, WITH RODS OR ANGLES OF SIZES ADEQUATE TO SUPPORT THE LOAD.
5. DUCT HANGERS DIRECTLY IN CONTACT WITH OR DIRECTLY ATTACHED TO STAINLESS STEEL DUCTS SHALL BE STAINLESS STEEL.
6. IN THE EVENT DUCTWORK INTERFERES WITH SUSPENDED CEILING SUPPORT HANGERS, PROVIDE CROSS MEMBERS FROM HANGERS AFFECTED. THESE CROSS MEMBERS SHALL BE OF REINFORCED STEEL OR FURRING CHANNELS AND SHALL RUN UNDER DUCTWORK IN QUESTION FROM WHICH ADDITIONAL CEILING HANGERS SHALL BE SUPPORTED.

PERMITTED DUCT MATERIAL USAGE

1. HVAC SUPPLY & RETURN MAY BE INSULATED GALV. STEEL, OR INSULATED FLEXIBLE
2. OUTSIDE AIR MUST BE EXTERNALLY INSULATED GALVANIZED STEEL.
3. TOILET EXHAUST SHALL BE GALVANIZED STEEL, NO INSULATION.

POWER VENTILATORS

1. MANUFACTURERS SHALL BE GREENHECK, PENN, BROAN, NUTONE OR APPROVED EQUAL.
2. CEILING EXHAUST FANS SHALL BE V-BELT OR DIRECT DRIVE, WITH GALVANIZED STEEL HOUSING LINED WITH 1/2 INCH ACOUSTIC INSULATION, RESILIENT MOUNTED MOTOR, GRAVITY BACKDRAFT DAMPER IN DISCHARGE.
3. DISCONNECT SWITCH SHALL BE FACTORY WIRED, NON-FUSIBLE, IN HOUSING FOR THERMAL OVERLOAD PROTECTED MOTOR.
4. GRILLE SHALL BE MOLDED WHITE PLASTIC OR ALUMINUM WITH BAKED WHITE ENAMEL FINISH.
5. SPEED CONTROLLER TO BE SOLID STATE.
6. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

DIFFUSERS, REGISTERS AND GRILLES

1. FURNISH AND INSTALL WHERE SHOWN ON DRAWINGS ALL REGISTERS, GRILLES, DIFFUSERS AND LOUVERS IN ACCORDANCE WITH THE TABULATION IN THE SCHEDULE ON DRAWINGS.
2. PROVIDE ACCESSORIES AND MODIFICATIONS AS INDICATED IN SCHEDULE NOTES.
3. MANUFACTURER LISTED IN SCHEDULE IS FOR DESIGN SELECTION ONLY. REGISTERS, GRILLES, AND DIFFUSERS AS MANUFACTURED BY PRICE, KRUEGER, TITUS, METALAIRE OR APPROVED EQUAL WILL BE ACCEPTED.

DUCT ACCESSORIES

1. INSTALL ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. PROVIDE BALANCING DAMPERS AT POINTS ON LOW PRESSURE SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS AS REQUIRED FOR AIR BALANCING.
3. PROVIDE BACKDRAFT DAMPERS ON EXHAUST FANS OR EXHAUST DUCTS NEAREST TO OUTSIDE AND WHERE INDICATED.
4. PROVIDE FLEXIBLE CONNECTIONS IMMEDIATELY ADJACENT TO EQUIPMENT IN DUCTS ASSOCIATED WITH FANS AND MOTORIZED EQUIPMENT.

VOLUME CONTROL DAMPERS

1. FABRICATE IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS, AND AS INDICATED. AIR BALANCE, BARBER-COLMAN, CARNES, NATIONAL CONTROLLED AIR, RUSKIN, CESCO OR APPROVED EQUAL.
2. FABRICATE SINGLE BLADE DAMPERS FOR DUCT SIZES TO 12 INCH.
3. FABRICATE MULTI-BLADE DAMPER OF OPPOSED BLADE PATTERN WITH MAXIMUM BLADE SIZES 12 X 72 INCH. ASSEMBLE CENTER AND EDGE CRIMPED BLADES IN PRIME COATED OR GALVANIZED CHANNEL FRAME WITH SUITABLE HARDWARE.
4. EXCEPT IN ROUND DUCTWORK 12 INCHES AND SMALLER, PROVIDE END BEARINGS, ON MULTIPLE BLADE DAMPERS, PROVIDE OIL-IMPREGNATED NYLON OR SINTERED BRONZE BEARINGS.
5. PROVIDE LOCKING, INDICATING QUADRANT REGULATORS ON SINGLE AND MULTI-BLADE DAMPERS. WHERE ROD LENGTHS EXCEED 30 INCHES PROVIDE REGULATOR AT BOTH ENDS.

BACKDRAFT DAMPERS

1. DAMPERS SHALL BE AIR BALANCE, VENT COCK, ANEMOSTAT, RUSKIN, CESCO OR APPROVED EQUAL.
2. GRAVITY BACKDRAFT DAMPERS, SIZE 18X18 INCHES OR SMALLER, FURNISHED WITH AIR MOVING EQUIPMENT, MAY BE AIR MOVING EQUIPMENT MANUFACTURER'S STANDARD CONSTRUCTION.
3. FABRICATE MULTI-BLADE, PARALLEL ACTION GRAVITY BALANCED BACKDRAFT DAMPERS OF 16 GAGE GALVANIZED STEEL WITH CENTER PIVOTED BLADES OF MAXIMUM 6 INCH WIDTH, WITH FELT OR FLEXIBLE VINYL SEALED EDGES, LINKED TOGETHER IN RATTLE-FREE MANNER WITH 90 DEGREE STOP, STEEL BALL BEARINGS, AND PLATED STEEL PIVOT PIN; ADJUSTMENT DEVICE TO PERMIT SETTING FOR VARYING DIFFERENTIAL STATIC PRESSURE.

AIR TURNING DEVICES

1. AIR TURNING VANES SHALL BE BARBER/COLMAN, TUTTLE AND BAILEY, ANEMOSTAT, METALAIRE OR APPROVED EQUAL.
2. MULTI-BLADE DEVICE WITH BLADES ALIGNED IN SHORT DIMENSION; STEEL OR ALUMINUM CONSTRUCTION; WITH INDIVIDUALLY ADJUSTABLE BLADES, MOUNTING STRAPS. PROVIDE IN ALL SQUARE TURNS.

FLEXIBLE DUCT CONNECTIONS

1. SHALL BE VENT FABRIC 6" VENTGLAS, ANEMOSTAT, BARBER/COLMAN OR APPROVED EQUAL.
2. FABRICATE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS 1ST EDITION, 1985.
3. UL LISTED FIRE-RETARDANT NEOPRENE COATED WOVEN GLASS FIBER FABRIC TO NFPA 90A, MINIMUM DENSITY 20 OZ PER SQUARE YARD, APPROXIMATELY 6 INCHES WIDE, CRIMPED INTO METAL EDGING STRIP.

SUBMITTAL NOTE TO GC AND SUB-CONTRACTORS:

COORDINATE ALL MECHANICAL, ELECTRICAL, FIRE ALARM, SPRINKLER AND PLUMBING DEVICES/EQUIPMENT SUBMITTALS WITH ESSENTIAL PARTIES INCLUDING BUT NOT LIMITED TO: ELECTRICAL, MECHANICAL, PLUMBING, FIRE ALARM, SPRINKLER, AND MILLWORK CONTRACTORS. PRIOR TO SENDING SUBMITTALS FOR APPROVAL, ALL AFFECTED DISCIPLINES MUST INCLUDE A SIGNATURE OF APPROVAL ENSURING THAT ALL NECESSARY PARTIES HAVE HAD AN OPPORTUNITY TO REVIEW SAID SUBMITTAL AND RAISE ANY CONCERNS ABOUT EQUIPMENT BEING USED AND THE MEANS AND METHODS TO INSTALL SUCH EQUIPMENT. UPON RECEIVING A SUBMITTAL WITHOUT THE NECESSARY PARTY SIGNATURES, THE SUBMITTAL WILL IMMEDIATELY BE REJECTED WITHOUT REVIEW UNTIL THE SIGNATURES HAVE BEEN PROVIDED.



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SEAL



ISSUE & REVISION RECORD

#	DATE	DESCRIPTION
	07/20/2023	TI PERMIT SET

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PROJECT

DIAMONDS DIRECT

2600 N Mayfair RD
Wauwatosa, WI 53226

CLIENT



DIAMONDS DIRECT

PHILLIPS JOB NUMBER 2336402

ISSUE DATE 06/30/2023

DRAWN BY/CHECKED BY RHR / TAN

DRAWING TITLE

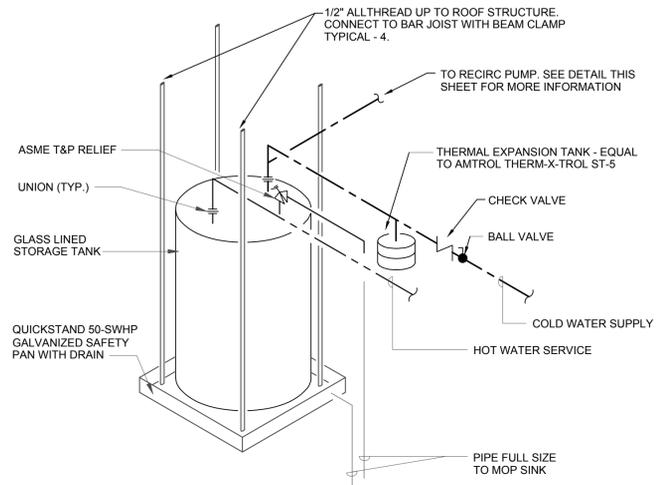
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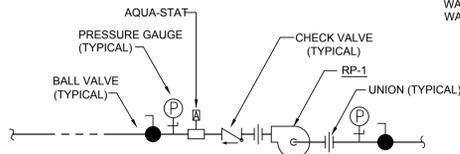
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BUILDING A, SUITE 450
ATLANTA, GEORGIA 30328
PHILLIPSPART.COM 770-394-1616

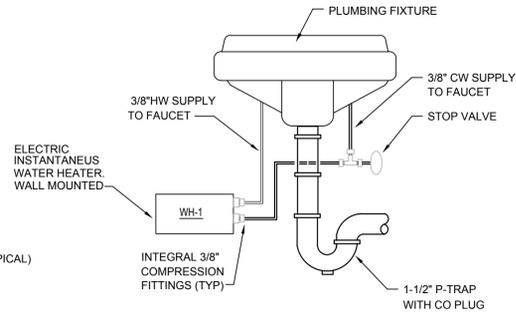
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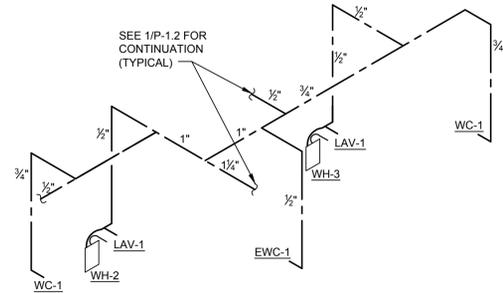
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P-0.1 NOT TO SCALE



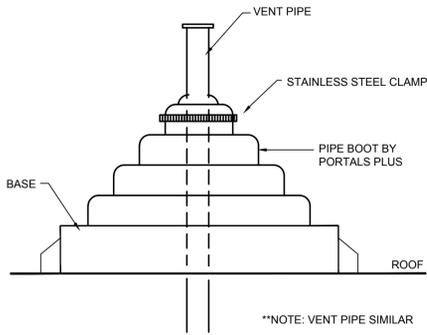
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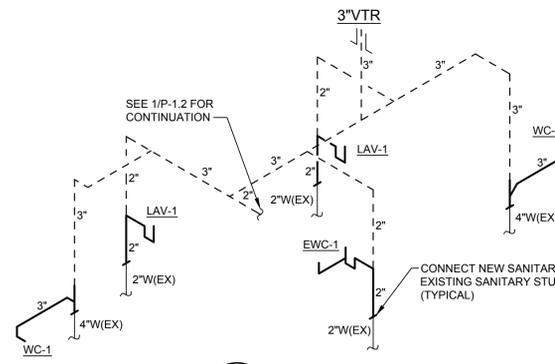
3 WATER HEATER DETAIL
P-0.1 SCALE: NONE



4 WATER RISER
P-0.1 SCALE: NONE



6 GAS THRU ROOF DETAIL
P-0.1 SCALE: NONE



5 WASTE & VENT RISER
P-0.1 SCALE: NONE

PLUMBING NOTES

- PLUMBING SHALL BE IN ACCORDANCE WITH 2018 WISCONSIN UNIFORM PLUMBING CODE AND APPLICABLE LOCAL CODES.
- FURNISH APPROPRIATE ADAPTERS FOR CONNECTION OF DISSIMILAR PIPING
- FLOOR CLEANOUT EQUAL TO JAY R. SMITH MODEL 4020.
- GAS PIPE SHALL BE SCHEDULE 40 BLACK STEEL WITH SCREWED FITTINGS.
- ALL EXTERIOR GAS PIPE SHALL BE PAINTED W/ BLACK RUST INHIBITIVE PAINT
- WATER PIPE SHALL BE TYPE "L" HARD DRAWN COPPER WITH 95-5 LEAD FREE SOLDER JOINTS.
- PIPE HANGERS FOR WATER PIPE SHALL BE EQUAL TO PHD 155 WITH INSULATION SHIELD.
- TEST WATER PIPING AT A HYDROSTATIC PRESSURE OF 125 PSI AND HOLD FOR TWENTY-FOUR HOURS.
- ALL DOMESTIC COLD WATER, HOT WATER RETURN, & HOT WATER PIPE SMALLER THAN 1-1/2" SHALL BE INSULATED WITH 1" THICK FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. HOT WATER & HOT WATER RETURN PIPE 1-1/2" AND GREATER SHALL HAVE 1-1/2" THICK FIBERGLASS PIPE INSULATION AS DESCRIBED. HORIZONTAL RAIN LEADER PIPING SHALL HAVE 1/2" THICK FIBERGLASS PIPE INSULATION AS DESCRIBED.
- DOMESTIC WATER SHUT-OFF VALVES SHALL BE WATTS SERIES FBV-4 FOR HOT & COLD WATER PIPE. ACCEPTABLE MANUFACTURERS ARE WATTS, NIBCO AND CRANE OR APPROVED EQUAL.
- WATER HAMMER ARRESTOR (WHA) TO BE EQUAL WATTS 15M2 & SHALL BE LOCATED ACCESSIBLE ABOVE A CEILING & OUT OF WALL.
- ROOF PENETRATIONS BY VENT & GAS SHALL BE THRU PORTALS PLUS PIPE BOOT FOR RUBBER ROOFS AND PORTALS PLUS ALUMINIFLASH FOR HOT APPLIED ROOFS. PITCH POCKETS ARE NOT ACCEPTABLE.
- SANITARY AND VENT PIPE BELOW SLAB SHALL BE SCHEDULE 40 DWV PVC, OR HUB & SPIGOT CAST IRON.
- SANITARY AND VENT PIPE ABOVE SLAB SHALL BE SCHEDULE 40 DWV PVC, DWV COPPER, OR HUBLESS CAST IRON. PVC NOT ALLOWED IN PLENUM.
- TEST DRAINAGE AND VENT PIPING AT TEN FEET OF WATER COLUMN.
- DUAL CHECK SHALL BE EQUAL TO WATTS LF7R.
- PRESSURE REDUCING VALVE (PRV) SHALL BE EQUAL TO WATTS LF25AUB-23.
- FLOOR DRAIN, 3" FD, SHALL BE EQUAL TO JAY R. SMITH MODEL 2010C-P050-NB. PROVIDE W/ PROCET TRAP SEAL. IF LOCAL AUTHORITY DOES NOT ALLOW TRAP SEAL, PROVIDE PLUMBING PRECISION PRODUCTS PR-5000 TRAP PRIMER (LOCATED ACCESSIBLE ABOVE CEILING & OUT OF WALL)
- NON-FREEZE HOSE BIBB (NFHB) SHALL BE ANTI-SIPHON, VACUUM BREAKER PROTECTED EQUAL TO WOODFORD MODEL 67.
- HOSE BIBB (HB) SHALL BE ANTI-SIPHON, VACUUM BREAKER PROTECTED EQUAL TO WOODFORD MODEL 24.
- NON-FREEZE ROOFTOP HOSE BIBB (RHB) SHALL BE ROOF-MOUNTED, VACUUM BREAKER PROTECTED EQUAL TO WOODFORD MODEL SRH-MS.
- ANY AND ALL PIPING THAT PENETRATES A FIRE RATED ASSEMBLY SHALL BE PROVIDED WITH MATCHING U.L. LISTED FIRE STOP. REFER TO PRE-FAB FIRE STOPPING DESIGN MANUAL FOR APPROPRIATE DETAIL.
- ANY AND ALL PIPING LOCATED IN AREAS SUBJECT TO FREEZING SHALL BE PROVIDED WITH HEAT TRACE MINIMUM 3W PER FOOT AND COORDINATED WITH ELECTRICAL CONTRACTOR.
- CONTRACTOR SHALL SUBMIT (MINIMUM 3) SETS OF SHOP DRAWINGS AND EQUIPMENT OUT SHEETS TO THE ARCHITECT FOR APPROVAL PRIOR TO STARTING ANY WORK. ANY EQUIPMENT REQUIRING AN ELECTRICAL CONNECTION SHALL FIRST BE REVIEWED AND APPROVED BY THE ELECTRICAL CONTRACTOR VERIFYING THAT THE ELECTRICAL CONTRACTOR HAS COMPARED THE ELECTRICAL REQUIREMENTS OF THE SUBMITTED EQUIPMENT WITH THE PLANS AND HAS MADE ANY REQUIRED ADJUSTMENTS TO THE ELECTRICAL GEAR. ANY SHOP DRAWING THAT IS SUBMITTED WITHOUT THE SIGNATURE APPROVAL OF THE ELECTRICAL CONTRACTOR WILL BE RETURNED WITHOUT COMMENT.
- PLUMBING CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING WATER, VENT, & SANITARY PIPE PRIOR TO START OF WORK. CONTRACTOR TO NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF SAID WORK.
- THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY RE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, EXACT DIMENSIONS, OR ALL OF THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL OBTAIN MANUFACTURER'S DATA ON ALL EQUIPMENT TO VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED AND USE THIS DATA TO COORDINATE PROPER SERVICE CHARACTERISTICS, ENTRY LOCATIONS, ETC., AND TO INSURE MINIMUM CLEARANCES ARE MAINTAINED.

PLUMBING LEGEND	
—S—	SANITARY LINE
— — —	COLD WATER
— · — · —	HOT WATER
— · — · — · —	VENT PIPE
— EG —	EXISTING GAS
— O2 —	OXYGEN PIPE
●	BALL VALVE
⊙	FLOOR CLEANOUT
FCO	FLOOR CLEANOUT
VTR	VENT THRU ROOF
PRV	PRESSURE REDUCING VALVE
BFP	BACKFLOW PREVENTER
G	GAS METER
W	WATER METER
⊕	PRESSURE GAUGE
○	PIPE UP
○	PIPE DOWN
HB	HOSE BIBB
WHA	WATER HAMMER ARRESTER

PUMP SCHEDULE							
MARK	TYPE	GPM	HEAD	H.P.	ELECT	RPM	NOTES
RP-1	IN-LINE	2	6 FT.	1/20	120/1	1725	1,2
NOTES: 1. ACCEPTABLE EQUAL MANUFACTURERS ARE B&G AND GRUNDFOS. 2. FURNISH 7 DAY TIME CLOCK FOR PUMP CONTROL W/ AQUA-STAT OVERRIDE TO CYCLE OFF PUMP WHEN RE-CIRCULATED HW LINE IS GREATER THAN 89° F.							

ELECTRIC WATER HEATER SCHEDULE							
TAG	TANK SIZE	KW	VOLT/PHASE	RECOVERY	SET POINT	BASIS OF DESIGN	AREA SERVED
WH-1	20	4.5	208/1	23 GPH @ 80° RISE	120°	RHEEM EGSP20	BUILDING
WH-2&3	-	4.2	208/1	INSTANTANEOUS	110°	CHRONOMITE SR-20L	RESTROOM

PLUMBING FIXTURE SCHEDULE							
DESIGNATION	MANUFACTURER	MODEL NO.	FIXTURE DESCRIPTION	CONNECTION SCHEDULE			
				WASTE	VENT	CW	HW
WC-1	AMERICAN STANDARD	"GLENWALL VORMAX" 2882107	WALL HUNG VITREOUS CHINA WATER CLOSET W/ ELONGATED BOWL. LOW CONSUMPTION FLUSH (1.28 GPF) WITH HIGH EFFICIENCY TANK AMERICAN STANDARD 3447101. SEAT SHALL BE OPEN FRONT LESS SEAT OLSONITE #95 HEAVY DUTY SOLID PLASTIC. HANDLE TO BE ON WIDE SIDE OF STALL. PROVIDE WITH J.R. SMITH WATER CLOSET SUPPORT MODEL 0410	3"	2"	3/4"	-
LAV-1	KOHLER	CAXTON K2000	VITREOUS CHINA UNDER-MOUNT BATHROOM SINK (HANDICAP). FAUCET - DELTA MODEL No. 21C152. 0.5 GPM AERATOR PROVIDE WITH THERMOSTATIC MIXING VALVE MODEL No. R2570-MIXLF TRAP - 1/2" CAST BRASS WITH C.O. PLUG SUPPLY - 3/8" ANGLE SUPPLY WITH STOPS PROVIDE OFFSET TAILPIECE INSULATE TRAP OUTLET & SUPPLY TO MEET A.D.A.	2"	1 1/2"	1/2"	1/2"
EWC-1	OASIS	PG8ACSL	WALL MOUNTED BI-LEVEL COOLER WITH STAINLESS STEEL TOP, GRAY BAKED ENAMEL FINISH. MCGUIRE 170 3/8" OD SUPPLY WITH ANGLE STOP, MCGUIRE 8872 1-1/4" 17 GAUGE CHROME PLATED P-TRAP WITH CLEANOUT PLUG, REFRIGERATION SYSTEM SHALL HAVE A FIVE YEAR WARRANTY. COOLER SHALL BE CERTIFIED LEAD-FREE.	2"	1 1/2"	1/2"	-
SK-1	ELKAY	"LUSTERTONE" LRAD252140	STAINLESS STEEL SINGLE BOWL TOP MOUNT ADA SINK. 25"x21-1/2"x4" DEEP, REAR CENTER DRAIN, 3 HOLES, 18 GAUGE SS. PROVIDE WITH DELTA FAUCET MODEL #100LF-HDF FAUCET.	2"	1 1/2"	1/2"	1/2"
HS-1	ELKAY	LR1918	19"x18" SINGLE BOWL STAINLESS STEEL, PROVIDE WITH WATTS LFMMV THERMOSTATIC MIXING VALVE. PROVIDE ZURN Z831B4-XL FAUCET.	-	-	1/2"	-
IMB-1	OATEY	12K	ICE MAKER BOX W/ BRASS 1/4 TURN VALVE. 1 PIECE BOX AND FLANGE DESIGN & SNAP ON FRAME.	-	-	1/2"	-
MS-1	MUSTEE	63M	FLOOR MOUNTED SERVICE SINK. 24"x24"x10" DEEP WITH STRAINER AND WALL GUARDS. FAUCET EQUAL TO ELKAY LK945BP07L2T WITH SOLID BRASS CONSTRUCTION, VACUUM BREAKER, PAIL HOOK, WALL BRACE, 3/4" HOSE THREADS AND LEVER HANDLES.	3"	1 1/2"	1/2"	1/2"

SPRINKLER NOTES

- PREMISES SHALL BE EQUIPPED WITH FULLY FUNCTIONAL WET PIPE FIRE PROTECTION SYSTEM PER THE NFPA 13, 101, & ALL LOCAL CODES & AMENDMENTS.
- SPRINKLER HEADS SHALL BE SEMI RECESSED WHERE LAY-IN CEILING OCCURS. HEADS SHALL BE CENTERED - BOTH DIRECTIONS IN TILE. HEADS SHALL BE FULLY RECESSED WITH WHITE POP OFF COVER WHERE OCCURS IN HARD CEILING. HEADS SHALL BE UP-RIGHT PENDANT TYPE WHERE THERE IS NO CEILING.
- PRIOR TO INSTALLATION OF FIRE PROTECTION SYSTEM, THE DESIGN SHALL BE APPROVED, IN WRITING, BY THE TENANT AND THEIR INSURANCE UNDERWRITER.
- FOR RENOVATION PROJECTS WITH NEW OR MODIFIED WALL PARTITIONS, CONTRACTOR SHALL RELOCATE OR PROVIDE NEW SPRINKLER HEADS AS REQUIRED FOR AFFECTED AREAS PER NFPA 13.



PHILLIPS

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SEAL



ISSUE & REVISION RECORD

#	DATE	DESCRIPTION
	07/20/2023	TI PERMIT SET

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PROJECT

DIAMONDS DIRECT
2600 N Mayfair RD
Wauwatosa, WI 53226

CLIENT



DIAMONDS DIRECT

PHILLIPS JOB NUMBER _____
ISSUE DATE _____ 2336402
DRAWN BY/CHECKED BY _____ 06/30/2023
DRAWING TITLE _____ DP/TN

**SCHEDULES, DETAILS,
-WASTE & VENT**

SHEET NUMBER _____

P-0.1

5901 PEACHTREE DUNWOODY RD.
BUILDING A, SUITE 450
ATLANTA, GEORGIA 30328
PHILLIPS PART 002 770-294-1016

ISSUED FOR CONSTRUCTION

SPECIFICATIONS

GENERAL

ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE WITH LOCAL AMENDMENTS, INCLUDING STATE, COUNTY AND CITY ELECTRICAL CODES, AND AUTHORITIES HAVING JURISDICTION.

ALL EQUIPMENT SHALL BE NEW AND U.L. APPROVED, UNLESS SPECIFICALLY NOTED OTHERWISE

ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL THE NECESSARY BENDS, OFFSETS, PULLBOXES AND OBSTRUCTIONS. SIZE AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE SHOWN IN ENLARGED DETAILS OR AS APPROVED BY THE ARCHITECT. INSTALL NEW WORK TO CONFORM TO THE STRUCTURE, MAINTAIN HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

PRIOR TO SUBMITTING A BID, CAREFULLY EXAMINE THE SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS WITHIN THE SCOPE OF WORK. BY THE ACT OF SUBMITTING A BID, IT SHALL BE UNDERSTOOD THAT SUCH AN EXAMINATION HAS BEEN COMPLETED, AND THAT ALLOWANCES FOR THE EXISTING CONDITIONS HAVE BEEN MADE.

VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS. ALLOW FOR OVERHEAD PIPES, DUCTS, AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE. WHEN LOCATING BOXES AND OUTLETS, CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO THE OWNER.

COORDINATE WITH ALL TRADES, INCLUDING ELECTRICAL REFERENCES ON THE ARCHITECTURAL DRAWINGS. FURNISH AND INSTALL WIRINGS FOR EQUIPMENT PROVIDED BY OTHERS. "WIRING" INCLUDES FURNISHING AND INSTALLING CONDUIT, CONDUCTORS, BOXES, AND DISCONNECTS (AS SPECIFIED) AND MAKING FINAL CONNECTIONS.

SECURE AND PAY ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK.

CUT AND PATCH EXISTING CONSTRUCTION WORK REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH AND SHALL MATCH ALL SURROUNDING WORK.

AFTER COMPLETION OF WORK UNDER THIS SECTION, CLEAN UP RESULTANT DEBRIS FROM THIS WORK AND REMOVE FROM SITE. CONDITIONS MUST BE "BROOM-CLEAN".

LIGHTING FIXTURES

FURNISH AND INSTALL LIGHTING FIXTURES AS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL DRAWINGS. ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR FIXTURE LOCATION, ELECTRICAL DRAWINGS TAKE PRECEDENCE FOR FIXTURE TYPE AND VOLTAGE. COORDINATE FIXTURE HOUSINGS AND TRIMS WITH CEILING TYPE. PROVIDE REQUIRED ACCESSORIES FOR CEILING TYPES.

FIXTURES WITH EMERGENCY BATTERY PACK SHALL BE SIMILAR TO BODINE #B50. COORDINATE WITH FIXTURE MANUFACTURER FOR BATTERY PACK MOUNTING. PROVIDE UNSWITCHED SOURCE OF POWER TO EMERGENCY BALLAST OF SWITCHABLE EMERGENCY LIGHTS.

ALL FLUORESCENT BALLASTS SERVING T8 LAMPS SHALL BE ELECTRONIC, ADVANCE OR EQUAL. ALL FLUORESCENT BALLASTS SERVING T12 LAMPS SHALL BE ELECTROMAGNETIC.

DISTRIBUTION EQUIPMENT

ALL PANELBOARDS SHALL BE ENCLOSED TYPE, FLUSH OR SURFACE MOUNTED AS INDICATED, IN STEEL CABINETS CODE GAUGE, WITH STEEL TRIM CONCEALED HINGES, DOOR-IN-DOOR AND FLUSH TYPE LOCKS, ALL KEYED ALIKE, MANUFACTURED BY SQUARE D, ABB-GENERAL ELECTRIC, OR EATON.

ALL BUSES, INCLUDING NEUTRAL AND GROUND BUS, SHALL BE MINIMUM 98% CONDUCTIVITY, HARD DRAWN COPPER, SILVER OR TIN-PLATED JOINTS AND SIZED ON THE BASIS OF 100 AMPERES PER INCH CROSS-SECTIONAL AREA. BUSES SHALL BE ARRANGED FOR SEQUENCING PHASING.

PANELBOARDS SHALL BE EQUIPPED WITH BOLT-ON MOLDED CASE CIRCUIT BREAKERS OF THE TYPE, NUMBER OF POLES, TRIP SIZES, AS SHOWN IN DRAWINGS AND INTERRUPTING CAPACITY AS PER BUILDING REQUIREMENTS.

CABINETS SHALL BE OF SUFFICIENT SIZE TO ALLOW A GUTTER SPACE OF AT LEAST 6" ON SIDES, TOP AND BOTTOM.

BACK BOXES SHALL BE CONSTRUCTED OF CODE GAUGE SHEET STEEL. GALVANIZED TRIMS SHALL BE PRIMED FOR FINISH PAINTING BY OTHERS.

DOORS AND TRIM SHALL EACH BE IN ONE PIECE SO DESIGNATED THAT DOORS WILL OPEN 180 DEGREES. DOORS SHALL BE FASTENED TO TRIMS WITH SEMI-CONCEALED, 5 KNUCKLE STEEL WITH NONFERROUS PINS. TRIMS SHALL BE FASTENED TO BACK BOXES BY SCREWS.

A CIRCUIT DIRECTORY WITH METAL FRAME AND GLASSINE PAGE SHALL BE PROVIDED ON THE INSIDE OF THE DOOR. UPON COMPLETION OF THE PROJECT, THE DIRECTORY SHALL BE TYPEWRITTEN, INDICATING THE SERVICE CONTROLLED BY EACH CIRCUIT FOR NEW AND EXISTING PANELBOARDS.

GROUP ALL CONDUCTORS WITHIN PANEL ENCLOSURE. DO NOT SPLICE CONDUCTORS WITHIN PANEL ENCLOSURE.

CLEAN, VACUUM, AND TIGHTEN ALL CONNECTORS AND CONNECTIONS IN EXISTING ELECTRICAL EQUIPMENT REUSED.

DISCONNECT SWITCHES SHALL BE QMOB FUSED OR NON-FUSED (AS NOTED OR REQUIRED) NEMA HEAVY DUTY EXTERNALLY OPERATED WHERE NOT FURNISHED WITH STARTING EQUIPMENT AND AT ALL OTHER POINTS REQUIRED BY CODE. FUSES SHALL BE BUSSMAN OR GOLD CURRENT LIMITING TYPE, MINIMUM 100,000 AIC. CIRCUIT BREAKER MINIMUM 10,000 AIC FOR 120/208V SYSTEM AND MINIMUM 14,000 AIC FOR 277/480V SYSTEM, UNO.

PROVIDE NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT. NAMEPLATES TO BE ENGRAVED THREE LAYER LAMINATED PLASTIC, WHITE LETTERS ON A BLACK BACKGROUND FOR EQUIPMENT 250 VOLTS AND UNDER, AND WHITE LETTERS ON A RED BACKGROUND FOR EQUIPMENT OVER 250 VOLTS.

TRANSFORMERS

INDOOR, DRY-TYPE, VENTILATED, CLASS "F" INSULATED, 60 HZ, 115°C RISE, PRIMARY TAPS, FOUR 2-1/2% ABOVE AND 2% BELOW. COPPER OR ALUMINUM WINDINGS. RATED VOLTAGE, CAPACITY AS INDICATED. TRANSFORMERS SHALL BE SQUARE D, ABB-GENERAL ELECTRIC, OR EATON.

DEVICES

DUPLEX RECEPTACLES FOR WALL AND FLOOR CONVENIENCE OUTLETS SHALL BE 2 POLE, 3 WIRE, GROUNDED, 20 AMPERE, NEMA CONFIGURATION 5-20R. COLOR SHALL BE BASE BUILDING STANDARD.

FLUSH FIRE-RATED POKE THROUGH DEVICE SHALL HAVE A DUPLEX RECEPTACLE RATED FOR 20 AMPERES WITH TWO (2) FLUSH CATEGORY 5e JACKS WITH A 3" CORE HOLE SIZE, AND A SOLID BRASS FACEPLATE.

SINGLE POLE SWITCHES SHALL BE 20 AMPERE BASE BUILDING STANDARD AS APPROVED BY ARCHITECT.

DEVICE SHALL BE MOUNTED UNDER COMMON COVERPLATE WHERE MULTIPLE DEVICES ARE INDICATED.

TOGGLE SWITCH WITH OVERLOAD PROTECTION AND INDICATOR LIGHT FOR EXHAUST FANS, SIMILAR TO ALLEN BRADLEY CATALOG #600-TAX4 HEATER ELEMENT.

RACEWAY

ALL WIRE AND CABLE SHALL BE INSTALLED IN CONDUIT. CONCEAL CONDUIT IN FINISHED AREAS AND PROTECTED IN UNFINISHED AREAS.

ELECTRICAL METALLIC TUBING (EMT) WITH SET-SCREW COUPLINGS AND FITTINGS, MAY BE USED IN FINISHED AREAS. EMT CAN ALSO BE USED IN UNFINISHED AREAS WHERE IT IS PROTECTED BY A COLUMN WEB OR JOIST SPACE.

PROVIDE RIGID GALVANIZED STEEL CONDUIT IN AREAS WHERE CONDUIT IS SUSCEPTIBLE TO PHYSICAL DAMAGE.

SCHEDULE 40 PVC CONDUIT SHALL BE INSTALLED BELOW GRADE. THE USE OF SCHEDULE 40 PVC ELBOWS AND CONDUIT STUB-UPS ARE NOT PERMITTED. TRANSITION BETWEEN BELOW GRADE PVC TO RIGID GALVANIZED STEEL CONDUIT PRIOR TO STUB-UP INTO BUILDING.

CUT CONDUIT END SQUARE, REAM SMOOTH. PAINT MALE THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT TO RACEWAY COUPLINGS.

PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY SHALL BE INSTALLED WITHIN 3" OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT CROSSINGS WHERE RACEWAY SHALL BE AT LEAST 1" FROM PIPE COVER.

RUN ALL RACEWAYS PARALLEL AND/OR PERPENDICULAR TO BUILDING WALLS.

SEPARATE RACEWAYS FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS.

MAKE FINAL CONNECTIONS TO MOTORS, VIBRATING EQUIPMENT AND WATER HEATERS WITH LIQUID-TIGHT FMC (FLEXIBLE METALLIC CONDUIT) AND CONNECTORS. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.

MAIN TELEPHONE CONDUIT FROM EQUIPMENT ROOM TO BASE BUILDING TELEPHONE CLOSET SHALL HAVE WIDE SWEEP BENDS.

CONDUITS ROUTED TO ROOF SHALL BE ROUTED ALONG MECHANICAL PIPING RUNS AND SHALL BE AS APPROVED BY BUILDING OWNER.

INDICATE, USING MARKING PEN, PANELBOARD AND CIRCUIT DESIGNATIONS ON ALL CONDUIT HOMERUNS AND JUNCTION BOXES.

CONDUCTORS

ALL WIRE AND CABLE SHALL BE COPPER, SIZES AS INDICATED ON THE DRAWINGS. MINIMUM CONDUCTOR SIZE SHALL BE #12 FOR POWER AND LIGHTING CIRCUITS AND #14 FOR SIGNAL AND CONTROL CIRCUITS. ALL #8 AWG WIRE AND LARGER SHALL BE #2 STRANDED. ALL #10 AWG WIRE AND SMALLER SHALL BE SOLID. INSULATION SHALL BE TYPE THW/THHN, 600 VOLTS. TYPE THW/THHN INSULATION SHALL BE USED FOR ALL BRANCH CIRCUIT WIRING. BRANCH AND FEEDER ABOVE GROUND SHALL BE THHN (90°F). BRANCH AND FEEDER BELOW GROUND SHALL BE THWN (75°F).

RECESSED LIGHTING FIXTURES IN HUNG CEILING SHALL BE SUPPLIED WITH FLEXIBLE METALLIC CONDUIT, IN LENGTHS NOT EXCEEDING 6 FEET FROM ADJACENT JUNCTION BOXES.

FACTORY COLOR CODING FOR WIRE AND CABLE SHALL BE AS FOLLOWS: 120/208V - BLACK, RED, BLUE, WHITE FOR PHASES A, B, C AND NEUTRAL, RESPECTIVELY. 277/480V - BROWN, ORANGE, YELLOW, WHITE FOR PHASES A, B, C AND NEUTRAL, RESPECTIVELY.

PROVIDE GREEN INSULATED GROUNDING CONDUCTORS IN ALL CONDUIT AND RACEWAY SYSTEMS.

LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. IN RACEWAY OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED, FURNISH FISH WIRE.

PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32°F (0°C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUIT AS REQUIRED BY CODE.

LIGHTING AND POWER WIRING FOR CIRCUITS LESS THAN 100 FEET SHALL BE #12 AWG, UNO. WIRE SIZES SHALL BE #10 FOR CIRCUITS GREATER THAN 100 FEET. NOT MORE THAN THREE LIGHTING OR CONVENIENCE OUTLET CIRCUITS IN ONE CONDUIT UNO.

ALL WIRES SHALL BE IDENTIFIED BY CIRCUIT NUMBERS IN ALL CABINETS, BOXES, WIRING TROUGH, OTHER ENCLOSURES, AT ALL SPLICES, TERMINATIONS POINTS, ETC.

OUTLET, JUNCTION AND PULL BOXES

ALL OUTLET BOXES SHALL BE CODE GAUGE, HOT DIPPED GALVANIZED STAMPED STEEL.

OUTLET BOXES FOR RECEPTACLES AND SWITCHES IN DRY WALL PARTITION SHALL BE 4" SQUARE, 1-1/2" MINIMUM DEPTH AND SHALL BE FITTED WITH SQUARE CORNERED DEVICES COVERS AND DEPTH EQUAL TO THE DRY WALL THICKNESS. SECTIONAL BOXES ARE NOT ACCEPTABLE.

JUNCTION AND PULL BOXES SHALL NOT BE EXPOSED IN FINISHED SPACE. WHERE NECESSARY, REROUTE RACEWAY OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY RACEWAY RUNS PROVIDE PULL BOXES EVERY 100 FEET AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.

SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.

LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS INSTALL SWITCH, INSIDE OPPOSITE HINGE. VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.

OUTLET AND JUNCTION BOXES SHALL NOT BE MOUNTED BACK-TO-BACK. ASSURE 6" MINIMUM SEPARATION IN NON-RATED WALLS. IN RATED WALLS, INSTALL BOXES IN SEPARATE STUD BAYS WITH A 24" MINIMUM SEPARATION.

GROUNDING

GROUND ALL CONDUITS, CABINETS, MOTORS, PANELS, AND OTHER EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS OF THE NATIONAL ELECTRICAL CODE, OR CODES THAT MAY APPLY.

PROVIDE GROUND WIRE FOR ALL BRANCH CIRCUITING, MINIMUM #12, FOR EACH CIRCUIT. THIS DOES NOT RELIEVE THE REQUIREMENT FOR GROUNDING THE RACEWAY SYSTEM AND OUTLET BOXES OF I.G. TYPE RECEPTACLES.

PROVIDE INSULATED GROUNDING CONDUCTORS IN ALL CONDUITS. GROUND WIRE TO BE SIZED IN ACCORDANCE WITH NEC ARTICLE 250.122.

SUPPORTS

SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS REQUIRED. DO NOT SUPPORT FROM CEILING HANGERS. SUPPORT HORIZONTAL RUNS OF METALLIC RACEWAYS NOT MORE THAN 10 FEET APART. SUPPORT RACEWAY RISERS AT EACH FLOOR LEVEL. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALL.

SUPPORT PANEL, JUNCTION, AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON RACEWAY.

ALL ANCHORS, FASTENERS, CLAMPS, ETC., SHALL BE MADE OF STEEL AND SHALL NOT CONTAIN ANY LEAD, WOOD, PLASTIC, ETC.

SLEEVES

PROVIDE WATERPROOF SLEEVES, AS APPROVED FOR ROOF, FLOOR, AND WALL PENETRATIONS. ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR PARTITIONS SHALL BE SEALED TO PREVENT THE SPREAD OF SMOKE AND FIRE. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED.

THE FOAM SEALANT SHALL MEET ALL OF THE FIRE TEST AND HOSE STREAM TEST REQUIREMENTS OF ASTM E-119-73 AND SHALL BE U.L. CLASSIFIED AS A WALL OPENING PROTECTIVE DEVICE.

TELEPHONE, SIGNAL, DATA AND COMMUNICATION SYSTEM

PROVIDE ALL OUTLETS AS SHOWN ON PLANS. WALL OUTLETS SHALL BE 4" SQUARE BOX.

MINIMUM CONDUIT SIZE IS 3/4", UNO. PROVIDE CONDUIT FROM TELE/DATA OUTLET BOX TO ACCESSIBLE CEILING LOCATION WITH A MINIMUM OF 6" STUBBED OUT AND TERMINATE WITH INSULATED THROAT CONNECTOR, PROVIDE TIED OFF PULL WIRE.

HVAC CONTROLS

MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL CONTROL WIRING INCLUDING CONDUITS, RELAYS, TIME CLOCK, CONTROL TRANSFORMERS, ETC., FOR ALL HVAC EQUIPMENT, UNLESS SPECIFIED OTHERWISE.

ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ONLY POWER WIRING WITH DISCONNECTS, AS SHOWN IN ELECTRICAL DRAWINGS.

CONNECTION TO EXISTING WORK

PLAN INSTALLATION ON NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFACE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH BUILDING OWNER.

CONNECT NEW WORK TO EXISTING IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY BUILDING OWNER.

DISCONNECT, REMOVE, OR RELOCATE ELECTRICAL MATERIALS AND EQUIPMENT AS NOTED AND AS REQUIRED BY CHANGES IN CONSTRUCTION. ALL RACEWAYS TO BE ABANDONED SHALL DISCONNECT WIRING AT LOAD (EQUIPMENT) AND AT LINE SIDE, CUT AND CAP, FLUSH TO SURFACE. DISPOSE OF ALL MATERIAL AND EQUIPMENT AS DIRECTED.

MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AFFECTED BY THIS WORK. ALL REQUIRED WORK FOR TIE-IN TO THE EXISTING EQUIPMENT SHALL BE ACCOMPLISHED AFTER HOURS, THE EXACT DAY AND TIME SHALL BE DIRECTED BY OWNER, AND AT NO ADDITIONAL CHARGE. ALARM AND EMERGENCY SYSTEM SHALL NOT BE INTERRUPTED.

REMOVE ABANDONED CONDUCTORS FROM EXISTING RACEWAYS. CLEAN RACEWAY AS REQUIRED PRIOR TO REWIRING.

TEMPORARY SHUTDOWNS WHEN REQUIRED TO BE MADE ONLY WITH WRITTEN CONSENT OF OWNER AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION AND AT NO ADDITIONAL CHARGE.

TESTS AND GUARANTEES

UPON COMPLETION OF ELECTRICAL WORK, TEST FOR GROUNDS AND SHORTS, TO INSURE PROPER OPERATION OF ELECTRICAL EQUIPMENT. REPAIR OR REPLACE FAULTY EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.

GUARANTEE FOR ONE YEAR AFTER FINAL ACCEPTANCE BY OWNER OF ALL WORKMANSHIP AND MATERIALS FURNISHED.

FIRE ALARM SYSTEM

EXISTING NOTIFIER NFS2-3030 FIRE ALARM EQUIPMENT (FIRE ALARM CONTROL PANEL) SHALL REMAIN. ALL WORK SHALL BE COORDINATED WITH BUILDING AUTHORITIES. FINAL CONNECTIONS TO BUILDING FIRE ALARM SYSTEM TO BE DONE WITH BUILDING APPROVED CONTRACTOR. INSTALL NEW FIRE ALARM DEVICES AS INDICATED ON THE DRAWINGS AND AS REQUIRED TO PROVIDE A COMPLIANT, OPERATIONAL SYSTEM.

ALL WORK AFFECTING THE EXISTING BUILDING ALARM SYSTEM MUST BE PERFORMED IN STRICT ACCORDANCE WITH BUILDING RULES AND REGULATIONS. ALL DEVICES SHALL MEET ADA CRITERIA. REPLACE EXISTING DEVICES IF THEY DO NOT MEET ADA CRITERIA.

SUBMITTALS

MANUFACTURER'S CUT SHEETS AND SHOP DRAWINGS OF THE FOLLOWING APPARATUS, GIVING FULL DESCRIPTION AND OTHER PERTINENT FACTS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER. THEIR APPROVAL SHALL BE SECURED BEFORE APPARATUS IN QUESTION IS ORDERED, BUILT OR INSTALLED.

- LIGHTING FIXTURES, LAMPS AND BATTERY PACKS
- DISTRIBUTION EQUIPMENT (PANELBOARDS, DISCONNECTS, TRANSFORMERS, ETC)
- DEVICES (SWITCHES, RECEPTACLES, DIMMERS, FACEPLATES, ETC)
- ELEVATORS
- FIRE ALARM DEVICES AND SYSTEM
- OTHER EQUIPMENT AS SPECIFIED

END OF SPECIFICATION

ELECTRICAL LEGEND

HA-1,3,5

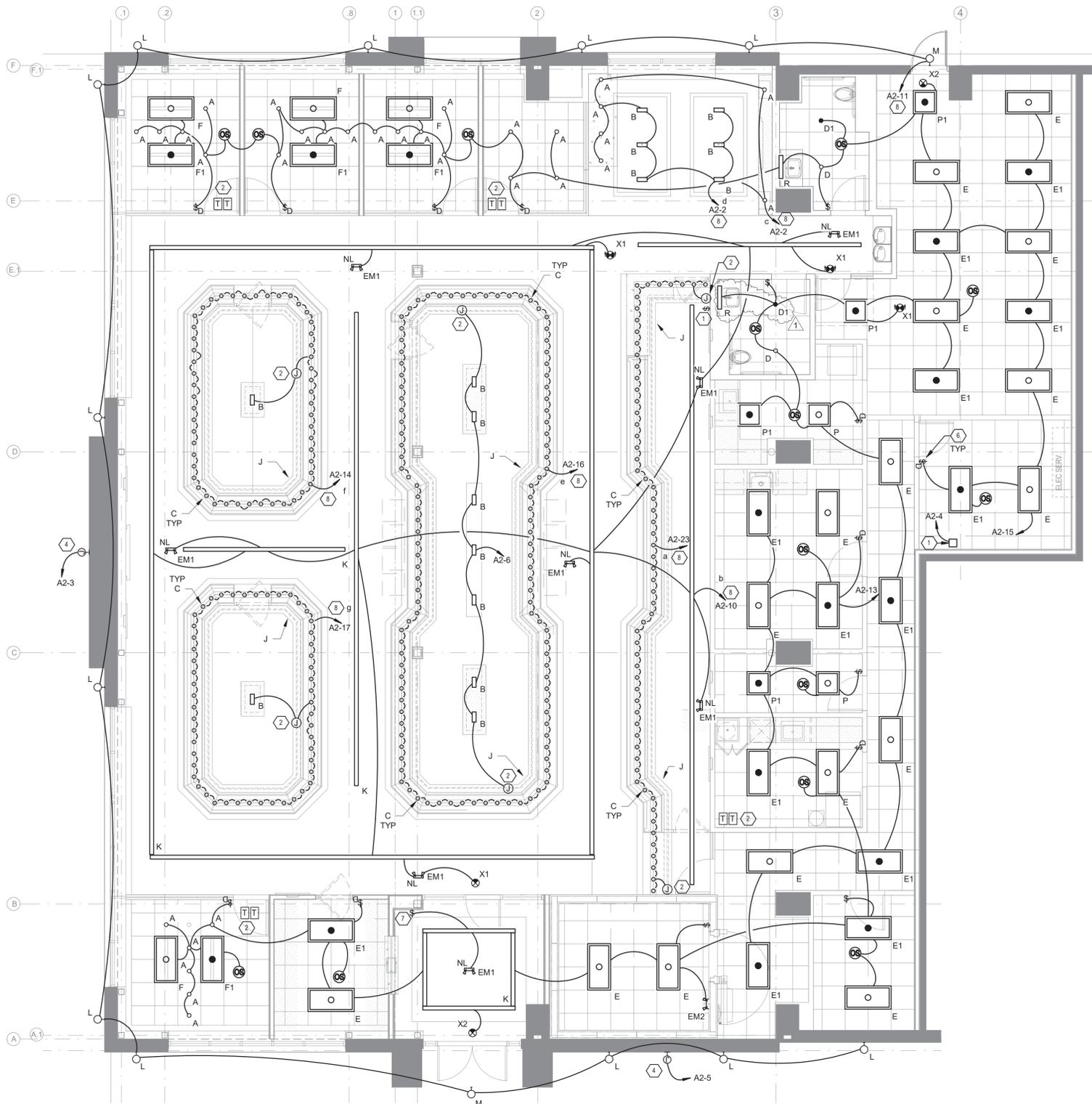
HA-1,3,5

HA-1,3,5 ADJACENT TO ARROW INDICATES HOMERUN OF CIRCUIT 1,3,5 TO PANEL HA. SLASH MARKS INDICATE THE NUMBER OF #12 CONDUCTORS. EQUIPMENT GROUNDING CONDUCTORS ARE REQUIRED BUT ARE NOT SHOWN. NO MARKS INDICATE TWO #12 CONDUCTORS AND ONE #12 GROUND. NUMBERS(S) AND LOWER CASE LETTER(S) INDICATE CIRCUIT AND SWITCH LEG DESIGNATION, RESPECTIVELY. CAPITAL LETTERS DESIGNATE FIXTURE TYPE.

NOTES:

- ALL MOUNTING HEIGHTS ARE TO CENTERLINE OF DEVICES UNO, AND SHALL BE THE MOUNTING HEIGHT USED, UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS.
- ALL SYMBOLS INDICATED IN THIS LEGEND MAY NOT NECESSARILY BE USED ON THE PLANS.
- REFER TO SPECIFICATIONS FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHTING FIXTURES.
- MOUNTING HEIGHTS FOR LIGHT SWITCHES, RECEPTACLE, FIRE ALARM DEVICES, AND ETC., COMPLY WITH A.D.A. DO NOT VARY THESE DIMENSIONS.
- REFER TO ARCHITECTURAL PLANS FOR EXACT DEVICE LOCATIONS AND DIMENSIONS.

	RECESSED OR SURFACE MOUNTED FIXTURE, SHADING INDICATES EMERGENCY FIXTURE
	STRIP FIXTURE - MOUNTING AS INDICATED, SHADING INDICATES EMERGENCY FIXTURE
	RECESSED OR SURFACE MOUNTED DOWNLIGHT, SHADING INDICATES EMERGENCY FIXTURE
	WALL MOUNTED FIXTURE, SHADING INDICATES EMERGENCY FIXTURE
	SURFACE OR RECESSED DIRECTIONAL FIXTURE
	CEILING OR WALL MOUNTED EXIT SIGN, ARROWS DENOTE DIRECTION OF EGRESS, DARKENED QUADRANT INDICATES FACE
	TRACK LIGHTING, TRACK LENGTH AS INDICATED
	WALL MOUNTED EMERGENCY LIGHTING UNIT AND LIGHT HEADS
	LANDSCAPE OR DIRECTIONAL LANDSCAPE FIXTURE
	CEILING OR WALL MOUNTED JUNCTION BOX, HEIGHT AS INDICATED
	FLUSH FLOOR MOUNTED JUNCTION BOX
	CEILING MOUNTED OCCUPANCY OR VACANCY SENSOR
	S SINGLE POLE TOGGLE SWITCH - 48" AFF
	S3 THREE-WAY TOGGLE SWITCH - 48" AFF
	S4 FOUR-WAY TOGGLE SWITCH - 48" AFF
	SD SINGLE POLE DIMMER SWITCH - 48" AFF
	S3D THREE-WAY DIMMER SWITCH - 48" AFF
	S4D FOUR-WAY DIMMER SWITCH - 48" AFF
	SK KEY OPERATED SWITCH - 48" AFF
	ST TIMER OPERATED SWITCH - 48" AFF
	SP SINGLE POLE TOGGLE SWITCH WITH PILOT LIGHT IN TOGGLE MOUNT 48" AFF
	Sos SVs OCCUPANCY OR VACANCY SENSOR WALL-MOUNTED 48" AFF
	Svs/d VACANCY SENSOR DIMMER SWITCH WALL-MOUNTED 48" AFF
	TVI CABLE BOX-MOUNTING HEIGHT AS INDICATED, PROVIDE 1" FROM BOX TO ABOVE ACCESSIBLE CEILING.
	DUPLEX RECEPTACLE - 18" AFF OR AT HEIGHT INDICATED, NEMA 5-20R
	FLUSH CEILING BOX WITH DUPLEX RECEPTACLE, NEMA 5-20R
	FLUSH CEILING BOX WITH QUAD RECEPTACLE, NEMA 5-20R
	DOUBLE DUPLEX RECEPTACLE - 18" AFF OR AT HEIGHT INDICATED, NEMA 5-20R
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE - 18" AFF OR AT HEIGHT INDICATED, NEMA 5-20R
	WP WEATHERPROOF DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE - 36" AFF UNLESS NOTED, NEMA 5-20R
	DUPLEX RECEPTACLE - ISOLATED GROUND - 18" AFF UNLESS NOTED, NEMA 5-20R
	DUPLEX RECEPTACLE, TOP RECEPTACLE SWITCHED - 18" AFF UNLESS NOTED, NEMA 5-20R
	DOUBLE DUPLEX RECEPTACLE - ISOLATED GROUND - 18" AFF UNLESS NOTED, NEMA 5-20R
	DOUBLE DUPLEX RECEPTACLE, TOP RECEPTACLE SWITCHED - 18" AFF UNLESS NOTED, NEMA 5-20R
	SINGLE RECEPTACLE STRAIGHT BLADE - TYPE AND MOUNTING AS INDICATED
	SPECIAL PURPOSE RECEPTACLE - TYPE AND MOUNTING AS INDICATED
	SURFACE MOUNTED MULTI-OUTLET RACEWAY SYSTEM FOR CONDUCTORS AND DEVICES AS SPECIFIED, LENGTH AS INDICATED
	POWER AND TELEPHONE POLE
	FLUSH FLOOR BOX WITH DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R
	FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE, NEMA 5-20R
	FLUSH FLOOR BOX WITH COMBINATION TELEPHONE/DATA OUTLET
	FLUSH FLOOR BOX WITH TELEPHONE OUTLET
	FLUSH FLOOR BOX WITH DATA OUTLET
	FLUSH CEILING BOX WITH COMBINATION TELEPHONE/DATA OUTLET
	FLUSH CEILING BOX WITH TELEPHONE OUTLET
	FLUSH CEILING BOX WITH DATA OUTLET
	COMBINATION TELEPHONE/DATA OUTLET MOUNT 18" AFF
	TELEPHONE OUTLET MOUNT 18" AFF
	DATA OUTLET MOUNT 18" AFF
	WAP WIRELESS ACCESS POINT (POWER OVER ETHERNET)
	CR WALL MOUNTED JUNCTION BOX FOR CARD READER (REFER TO PLANS)
	MD MOTION DETECTOR
	KP KEYPAD/KEYFOB ACCESS CONTROL (REFER TO PLANS)
	DC DOOR CONTACT
	ES ELECTRIC STRIKE
	GB GLASS BREAK DETECTOR
	WR WIRELESS RECEIVER
	DPS DOOR POSITION SENSOR
	REX REQUEST TO EXIT
	EC EMERGENCY CALL
	KB KNOX BOX (REFER TO PLANS)
	SC SECURITY CAMERA (REFER TO PLANS)
	EQ EQUIPMENT AS NOTED
	FAC FIRE ALARM CONTROL PANEL: SURFACE / FLUSH
	FPS FIRE ALARM PULL STATION - 48" AFF
	FASV FIRE ALARM SYSTEM AUDIO/VISUAL SIGNAL, ADA APPROVED, BOTTOM MOUNTED 80" AFF 75 CANDELA UNO
	FASV FIRE ALARM SYSTEM SPEAKER STROBE SIGNAL, ADA APPROVED, BOTTOM MOUNTED 80" AFF 75 CANDELA UNO
	FASV FIRE ALARM VISUAL SIGNAL (STROBE), ADA APPROVED, BOTTOM MOUNTED 80" AFF 75 CANDELA UNO
	CD CEILING OR WALL MOUNTED SMOKE DETECTOR
	CH CEILING OR WALL MOUNTED HEAT DETECTOR
	DD DUCT MOUNTED SMOKE DETECTOR
	FT FLOW AND TAMPER SWITCHES
	CM CARBON MONOXIDE DETECTOR
	CC CONDUIT INSTALLED CONCEALED IN WALLS AND/OR ABOVE CEILING
	CCB CONDUIT INSTALLED CONCEALED IN/OR BELOW FLOOR SLAB OR BELOW GRADE
	CE CONDUIT INSTALLED EXPOSED
	IG ISOLATED GROUND CONDUCTOR
	FM FLEXIBLE METALLIC CONDUIT 6" MAXIMUM LENGTH
	SG SYSTEMS GROUND
	CTU CONDUIT TURNING UP/CONDUIT TURNING DOWN
	CT CONDUIT TERMINATION, STUB-OUT WITH THREADED OR SET SCREW CAP
	GBR GROUND BUS BAR
	EB EQUIPMENT BACKBOARD - 3/4" X 4" X 8" PLYWOOD, UNLESS NOTED
	PB PANELBOARD - SURFACE OR FLUSH MOUNTED
	NFD NON-FUSED DISCONNECT SWITCH - RATING/POLES/ENCLOSURE AS INDICATED (e.g. 30/3/R/NF)
	FDS FUSED DISCONNECT SWITCH - RATING/POLES/ENCLOSURE/FUSE AS INDICATED (e.g. 60/3/3



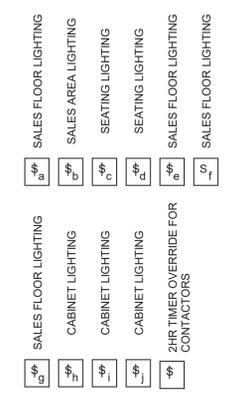
1 FLOOR PLAN - LIGHTING
E1.10
3/16" = 1'-0"

GENERAL NOTES:

- A. OBTAIN MANUFACTURER'S DATA ON ALL EQUIPMENT, THE DIMENSIONS OF WHICH MAY AFFECT INSTALLATION. USE THIS DATA TO COORDINATE PROPER SERVICE CHARACTERISTICS, ENTRY LOCATIONS, ETC., AND TO INSURE MINIMUM CLEARANCES ARE MAINTAINED.
- B. ANY WALLS, CEILINGS, EQUIPMENT, ETC., DAMAGED BY THE CONTRACTOR IN CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED, RESTORED AND/OR REPLACED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION, OR TO PERFORM ITS INTENDED FUNCTION, AT NO ADDITIONAL COST TO OWNER.
- C. ALL WIRES SHALL BE TERMINATED WITHIN ELECTRICAL BOXES. NOT LEFT LOOSE.
- D. ELECTRICAL CONTRACTOR SHALL ENSURE INSTALLED OCCUPANCY SENSORS PROVIDE A FULL RANGE COVERAGE WITHIN THE CONTROLLED AREA.
- E. ALL JUNCTION BOXES AND RECEPTACLES SHALL INDICATE THE CIRCUITS CONTAINED WITHIN. PROVIDE TYPED LABEL AND PERMANENTLY AFFIX TO COVERPLATE.
- F. CONTRACTOR CONFIRM WITH MANUFACTURER THAT LIGHT FIXTURES AND ASSOCIATED LIGHTING CONTROLS ARE COMPATIBLE WITH EACH OTHER.
- G. PROVIDE UNSWITCHED HOT TO ALL EMERGENCY, EGRESS, AND NIGHT LIGHT FIXTURES. FOR FIXTURES WITH BATTERY BALLASTS OR INVERTERS, TIE UNSWITCHED HOT TO BALLAST OR INVERTER, NOT THE FIXTURE ITSELF.
- H. SEE ARCHITECTURAL DRAWINGS FOR ANY UNLISTED MOUNTING HEIGHTS FOR LIGHTS, DEVICES, AND EQUIPMENT.
- I. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. REPAIR, CLEAN, AND REPLACE EXISTING EQUIPMENT, DEVICES, AND CONDUIT AS NEEDED.
- J. WHERE ANY EQUIPMENT, DEVICE, OR CONDUIT PENETRATES A FIRE RATED WALL, FLOOR, OR CEILING, CONTRACTOR SHALL USE FIRE CAULK OR SIMILAR METHOD IN ORDER TO MAINTAIN FIRE RATING OF STRUCTURE.
- K. FOR EXACT QUANTITIES OF LIGHTING AND EXACT LIGHT COVE LOCATIONS, SEE INTERIOR ELEVATIONS PRIOR TO BIDDING AND INSTALLATION. ELECTRICAL CONTRACTOR TO INCLUDE INTERIOR ELEVATIONS AS PART OF THE BID AND COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS.
- L. EC SHALL COORDINATE WITH MILLWORK INSTALLER SO THAT LIGHT FIXTURE J IS NOT VISIBLE FROM THE SALES AREA.
- M. LIGHT FIXTURE TYPE C TO BE ALIGNED WITH DISPLAY CASES BELOW EXACTLY AS INDICATED ON ARCHITECTURAL DRAWINGS.
- N. PROVIDE UL 924 OR 1008 RELAYS AS REQUIRED FOR DIMMED EMERGENCY FIXTURES.

KEYED NOTES:

- 1. SWITCHBANK LOCATION.
- 2. PROVIDE 24VDC LOW VOLTAGE TRANSFORMER FOR LINEAR LIGHT FIXTURE J LOCATED IN SALES AREA. LOCATE ABOVE ACCESSIBLE CEILING. VERIFY EXACT LOCATION IN FIELD. EC TO CONFIRM MANUFACTURER ALLOWED DISTANCE FOR DRIVER.
- 3. PROVIDE DOWNLIGHTING FOR DISPLAY CASE. COORDINATE MOUNTING HEIGHT AND QUANTITY WITH ARCHITECTURAL DRAWINGS.
- 4. EXISTING J-BOX FOR SIGNAGE. ENSURE DISCONNECTING MEANS IS INTEGRAL TO SIGNAGE. ROUTE CIRCUIT THROUGH RELAY PANEL.
- 5. LOCATION OF LIGHTING CONTACTOR AND TIME CLOCK.
- 6. PROVIDE DIMMER SWITCH EQUAL TO LUTRON MAESTRO SERIES (TYP).
- 7. CONFIRM SWITCH LOCATION WITH OWNER.
- 8. TO SWITCHBANK. SEE THIS SHEET FOR SWITCHBANK DETAILS. ROUTE CIRCUIT THROUGH CONTACTOR.
- 9. EXISTING FIXTURE TO REMAIN. PROVIDE CIRCUIT IN EXISTING CONDUIT.



2 DETAIL - SWITCHBANKS
E1.10
NOT TO SCALE

ISSUED FOR CONSTRUCTION



PHILLIPS
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Project 23099



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07/20/2023	07/20/2023	T1 PERMIT SET
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DIAMONDS DIRECT
2600 N Mayfair RD
Wauwatosa, WI 53226



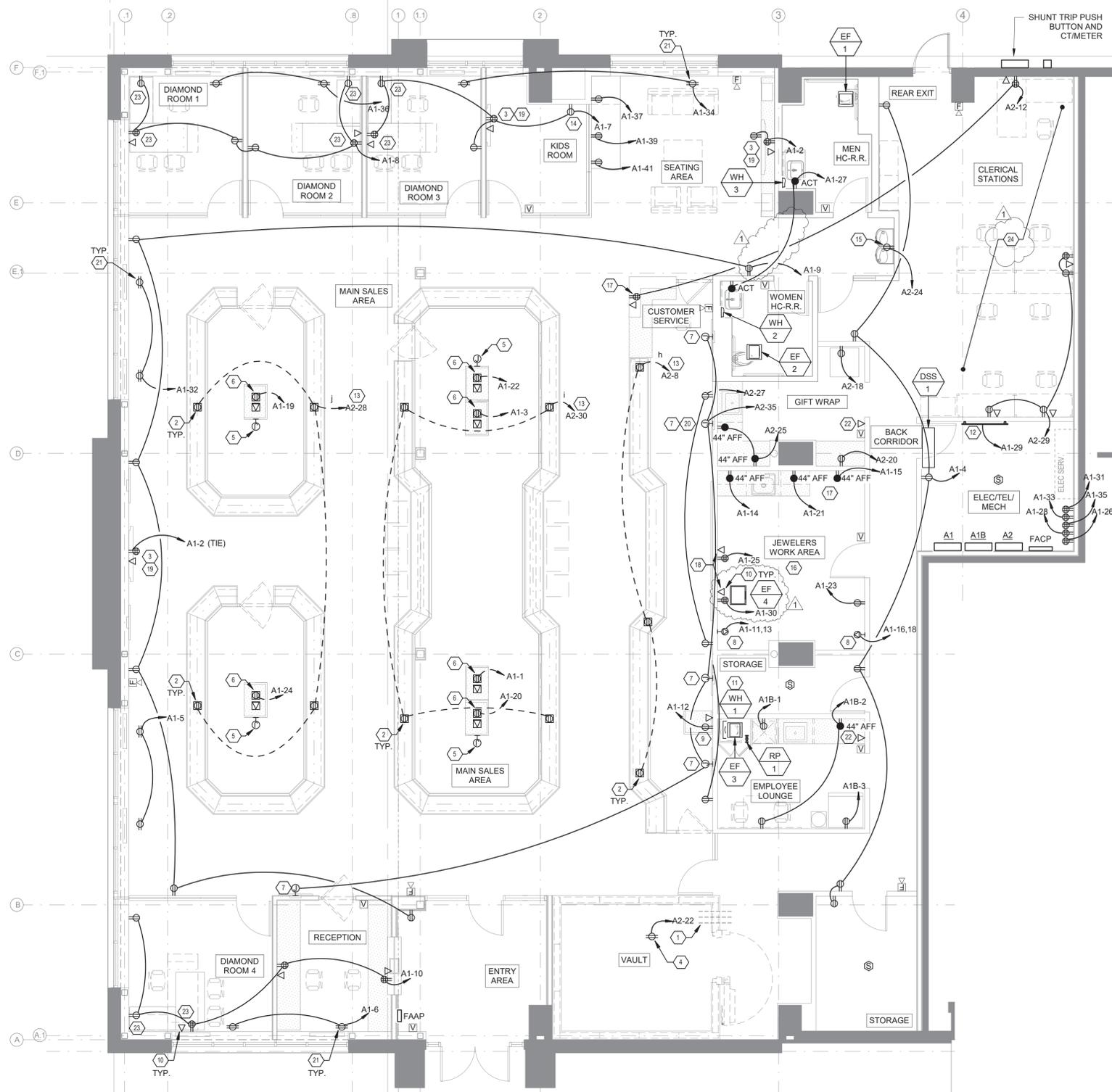
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PHILLIPS JOB NUMBER _____ 2336402
ISSUE DATE _____ 06/30/2023
DRAWN BY/CHECKED BY _____ AJS / JG
DRAWING TITLE _____
LIGHTING PLAN

SHEET NUMBER _____

E1.10

5901 PEACHTREE DUNWOODY RD.
BUILDING A, SUITE 450
ATLANTA, GEORGIA 30328
PHILLIPS PART.COM 770-394-1616



1 FLOOR PLAN - POWER
E1.20 3/16" = 1'-0"

GENERAL NOTES:

- OBTAIN MANUFACTURER'S DATA ON ALL EQUIPMENT, THE DIMENSIONS OF WHICH MAY AFFECT INSTALLATION. USE THIS DATA TO COORDINATE PROPER SERVICE CHARACTERISTICS, ENTRY LOCATIONS, ETC., AND TO INSURE MINIMUM CLEARANCES ARE MAINTAINED.
- ANY WALLS, CEILINGS, EQUIPMENT, ETC., DAMAGED BY THE CONTRACTOR IN CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED, RESTORED AND/OR REPLACED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION, OR TO PERFORM ITS INTENDED FUNCTION, AT NO ADDITIONAL COST TO OWNER.
- ALL WIRES SHALL BE TERMINATED WITHIN ELECTRICAL BOXES. NOT LEFT LOOSE.
- ALL JUNCTION BOXES AND RECEPTACLES SHALL INDICATE THE CIRCUITS CONTAINED WITHIN. PROVIDE TYPED LABEL AND PERMANENTLY AFFIX TO COVERPLATE.
- SEE ARCHITECTURAL DRAWINGS FOR ANY UNLISTED MOUNTING HEIGHTS FOR LIGHTS, DEVICES, AND EQUIPMENT.
- CONTRACTOR TO COORDINATE ELECTRICAL SERVICE PROVISIONS WITH POWER COMPANY PRIOR TO BID AND PURCHASE IF APPLICABLE.
- ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. REPAIR, CLEAN, AND REPLACE EXISTING EQUIPMENT, DEVICES, AND CONDUIT AS NEEDED.
- PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
- RECEPTACLES INSTALLED ON EXTERIOR OF BUILDING MUST BE RATED AS REQUIRED BY JURISDICTION.
- PROVIDE TAMPER RESISTANT RECEPTACLES WHERE REQUIRED BY NEC.
- WHERE ANY EQUIPMENT, DEVICE, OR CONDUIT PENETRATES A FIRE RATED WALL, FLOOR, OR CEILING, CONTRACTOR SHALL USE FIRE CAULK OR SIMILAR METHOD IN ORDER TO MAINTAIN FIRE RATING OF STRUCTURE.
- ALL GFCI OUTLETS THAT SHARE CIRCUIT WITH NON-GFCI DEVICES OR FIXTURES SHALL BE WIRED IN PARALLEL WITH NON-GFCI DEVICES OR FIXTURES SUCH THAT GFCI TRIP DOES NOT AFFECT USE OF OTHER DEVICES OR FIXTURES.

KEYED NOTES:

- THREE (3) - 3/4" CONDUITS ABOVE VAULT DOOR TO SERVE CEILING RECEPTACLE, LIGHT FIXTURE, AND LIGHT SWITCH. COORDINATE INSTALLATION OF CONDUIT WITH VAULT INSTALLER.
- FLOORBOX FOR CASE LIGHTING. ROUTE THROUGH RELAY PANEL. PROVIDE HARDWIRED CONNECTION OR RECEPTACLE AND PLUG AS REQUIRED BY LOCAL INSPECTOR.
- QUAD RECEPTACLE AND CABLE OUTLET FOR WALL MOUNTED TV. VERIFY EXACT LOCATION AND MOUNTING WITH OWNER PRIOR TO ROUGH-IN.
- RECEPTACLE MOUNTED IN CEILING. VERIFY EXACT REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.
- ROUGH-IN FOR ALARM SYSTEM DEVICE. VERIFY EXACT LOCATION AND HEIGHT OF ROUGH-IN WITH OWNER PRIOR TO INSTALLATION. PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING FROM ROUGH-IN TOP 6" ABOVE CEILING.
- FLOOR BOX FOR RECEPTACLE AND DATA OUTLET. VERIFY EXACT LOCATION IN FIELD WITH OWNER PRIOR TO INSTALLATION. SEE SPECIFICATIONS FOR MORE DETAILS.
- MOUNT JUNCTION BOX IN WALL BEHIND LIGHT BOX DISPLAY. COORDINATE MOUNTING HEIGHT IN FIELD.
- RECEPTACLES TO SERVE OWNER PROVIDED APPLIANCE. CIRCUIT WITH #8'S. VERIFY TERMINATING REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.
- RECEPTACLE AND DATA OUTLET MOUNTED IN WALL. VERIFY EXACT LOCATION IN FIELD WITH OWNER PRIOR TO INSTALLATION.
- PHONE/DATA: RUN 3/4" EMPTY CONDUIT WITH PULL STRING FROM JUNCTION BOX TO ABOVE ACCESSIBLE CEILING AND STUB FOR FUTURE USE.
- WATER HEATER: SEE CONNECTION SCHEDULE. MAKE FINAL CONNECTION.
- TELEPHONE BOARD: 4'-0" X 8'-0" FIRE RETARDANT PLYWOOD BACKBOARD. SEE 3/E4-10 FOR MORE DETAILS.
- TO SWITCHBANK. SEE 3/E1.10 FOR SWITCHBANK DETAILS. ROUTE CIRCUIT THROUGH RELAY PANEL. SEE 1/E5.10. FOR MORE DETAILS.
- PROVIDE TAMPER PROOF RECEPTACLE.
- PROVIDE RECEPTACLE WITH GFCI BREAKER FOR WATER FOUNTAIN.
- COORDINATE ALL RECEPTACLE MOUNTING HEIGHTS IN THIS ROOM WITH OWNER.
- CONFIRM MOUNTING LOCATION WITH OWNER.
- CONFIRM PHONE/DATA REQUIREMENTS WITH OWNER.
- CONFIRM TV POWER/DATA REQUIREMENTS WITH OWNER.
- ROUTE CIRCUIT THROUGH CONTACTOR.
- RECEPTACLE MOUNTED IN CEILING, OR ABOVE CEILING WHERE ALLOWED BY JURISDICTION. 8" ACCESS PANEL MUST BE INSTALLED AT EACH LIGHTBOX. VERIFY EXACT REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION.
- VERIFY LOCATION(S) WITH OWNER. MUST HAVE LOCKABLE EXTERIOR BOXES.
- OUTLET MUST BE HIDDEN FROM VIEW BEHIND DESK. VERIFY EXACT LOCATION WITH OWNER PRIOR TO INSTALL.
- ELECTRICAL AND NETWORK SETUP FOR THIS AREA TBD BASED ON CLERICAL OFFICE LAYOUT TO BE SUPPLIED BY OTHERS AND COORDINATE BY OWNER.

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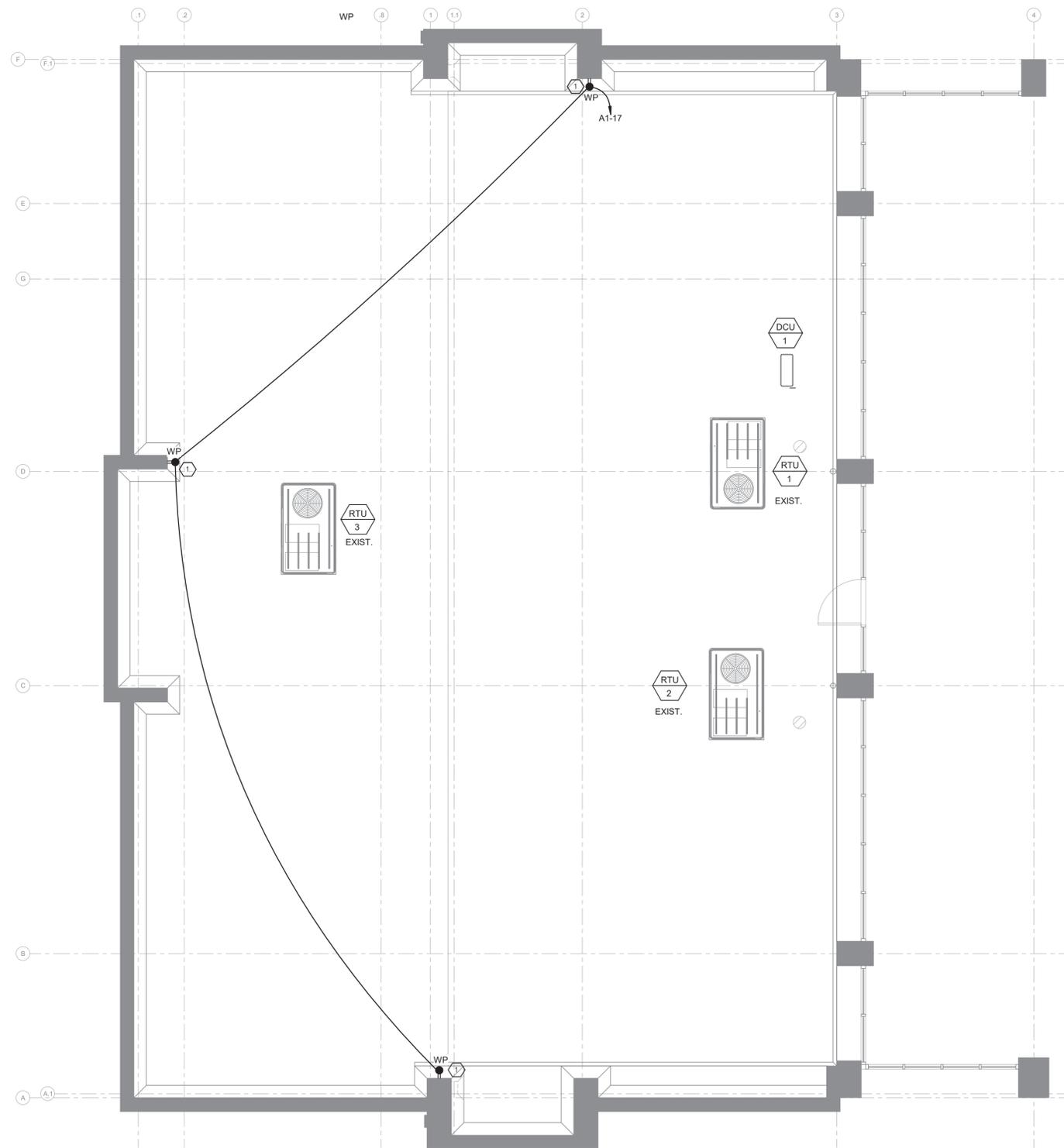
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Wauwatosa, WI 53226



PHILLIPS JOB NUMBER 2336402
ISSUE DATE 06/30/2023
DRAWN BY/CHECKED BY AJS / JG
DRAWING TITLE POWER PLAN

SHEET NUMBER
E1.20

5901 PEACHTREE DUNWOODY RD.
BUILDING A, SUITE 450
ATLANTA, GEORGIA 30328
PHILLIPS@PART.COM 770-394-1616



1 ROOF PLAN - POWER
E2.10 3/16" = 1'-0"

GENERAL NOTES:

- A. OBTAIN MANUFACTURER'S DATA ON ALL EQUIPMENT, THE DIMENSIONS OF WHICH MAY AFFECT INSTALLATION. USE THIS DATA TO COORDINATE PROPER SERVICE CHARACTERISTICS, ENTRY LOCATIONS, ETC., AND TO INSURE MINIMUM CLEARANCES ARE MAINTAINED.
- B. ANY WALLS, CEILINGS, EQUIPMENT, ETC., DAMAGED BY THE CONTRACTOR IN CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED, RESTORED AND/OR REPLACED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION, OR TO PERFORM ITS INTENDED FUNCTION, AT NO ADDITIONAL COST TO OWNER.
- C. ALL WIRES SHALL BE TERMINATED WITHIN ELECTRICAL BOXES. NOT LEFT LOOSE.
- D. ALL JUNCTION BOXES AND RECEPTACLES SHALL INDICATE THE CIRCUITS CONTAINED WITHIN. PROVIDE TYPED LABEL AND PERMANENTLY AFFIX TO COVERPLATE.
- E. SEE ARCHITECTURAL DRAWINGS FOR ANY UNLISTED MOUNTING HEIGHTS FOR LIGHTS, DEVICES, AND EQUIPMENT.
- F. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. REPAIR, CLEAN, AND REPLACE EXISTING EQUIPMENT, DEVICES, AND CONDUIT AS NEEDED.
- G. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
- H. RECEPTACLES INSTALLED ON EXTERIOR OF BUILDING MUST BE RATED AS REQUIRED BY JURISDICTION.
- I. WHERE ANY EQUIPMENT, DEVICE, OR CONDUIT PENETRATES A FIRE RATED WALL, FLOOR, OR CEILING, CONTRACTOR SHALL USE FIRE CAULK OR SIMILAR METHOD IN ORDER TO MAINTAIN FIRE RATING OF STRUCTURE.
- J. ALL GFCI OUTLETS THAT SHARE CIRCUIT WITH NON-GFCI DEVICES OR FIXTURES SHALL BE WIRED IN PARALLEL WITH NON-GFCI DEVICES OR FIXTURES SUCH THAT GFCI TRIP DOES NOT AFFECT USE OF OTHER DEVICES OR FIXTURES.

KEYED NOTES: (X)

- 1. VERIFY LOCATION(S) WITH OWNER. MUST HAVE LOCKABLE EXTERIOR BOXES.



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DIAMONDS DIRECT

PHILLIPS JOB NUMBER 2336402

ISSUE DATE 06/30/2023

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DRAWING TITLE
ROOF POWER PLAN

SHEET NUMBER

E2.10

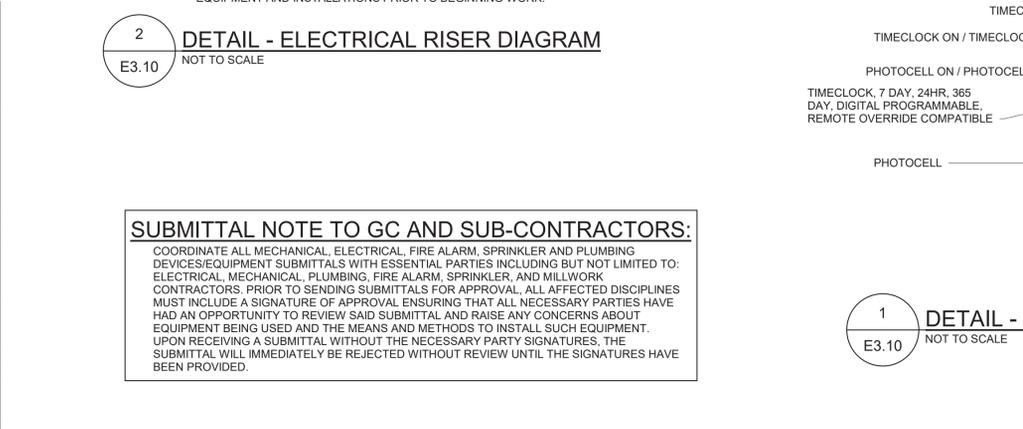
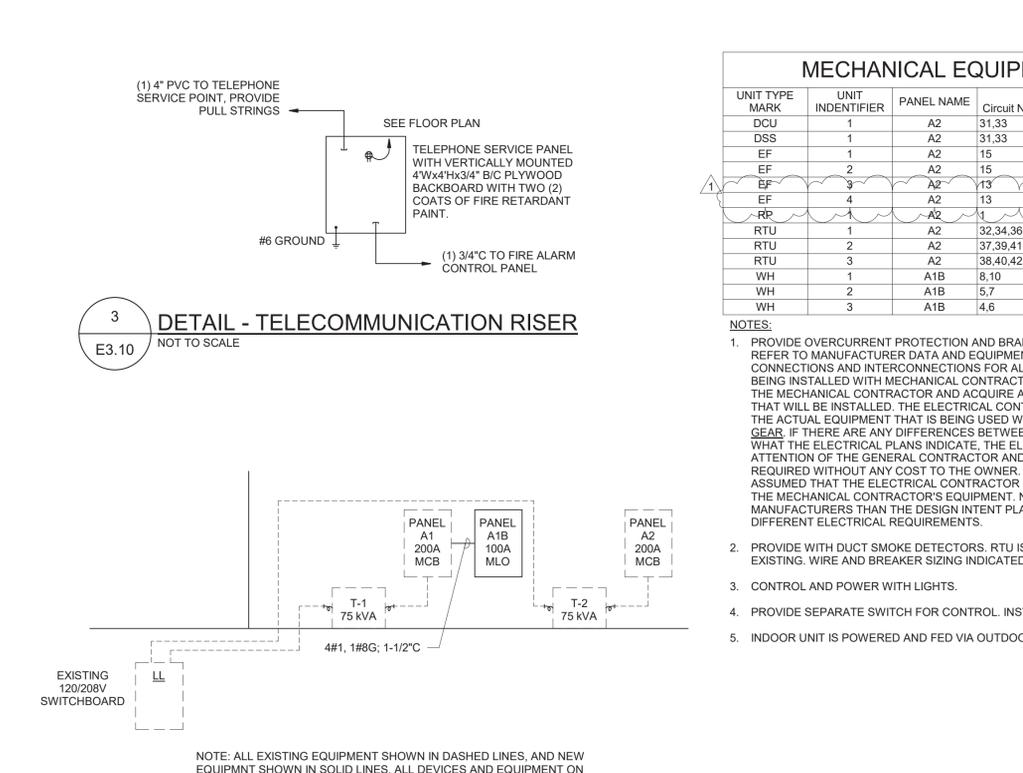
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ATLANTA, GEORGIA 30328
PHILLIPS PART.COM 770-394-1616

ISSUED FOR CONSTRUCTION

Branch Panel: A1 (EXISTING PANELBOARD)											
Location: Supply From: Mounting: Enclosure: NEMA 1			Volts: 120/208 Wye Phases: 3 Wires: 4			A.I.C. Rating: EXISTING Mains Type: MCB Mains Rating: 200.00 A					
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	FLOOR BOX	20 A	1	180	900			1	20 A SEATING OUTLETS	2	
3	FLOOR BOX	20 A	1		180	1080		1	20 A HALL/STORAGE OUTLETS	4	
5	CEILING/LIGHT RCPTS	20 A	1			360	360	1	20 A CEILING/LIGHT RCPTS	6	
7	DIAMOND/KID ROOM OUTLETS	20 A	1	1260	1440			1	20 A DIAMOND ROOM RCPTS	8	
9	SALES OUTLETS	20 A	1		1080	1440		1	20 A DIAMOND/RECEPTION OUTLETS	10	
11	JEWELRY EQUIPMENT	40 A	2			3120	180	1	20 A SALES OUTLETS	12	
13	JEWELERS OUTLET	20 A	1	3120	180			1	20 A JEWELERS OUTLET	14	
15	JEWELERS OUTLET	20 A	1		180	3120		1	20 A JEWELRY EQUIPMENT	16	
17	ROOFTOP RECEPTACLE	20 A	1			540	3120	2	40 A JEWELRY EQUIPMENT	18	
19	FLOOR BOX	20 A	1	180	180			1	20 A FLOOR BOX	20	
21	JEWELERS OUTLET	20 A	1		180	180		1	20 A FLOOR BOX	22	
23	JEWELERS OUTLET	20 A	1			180	180	1	20 A FLOOR BOX	24	
25	JEWELERS OUTLET	20 A	1	360	360			1	20 A DEDICATED TELECOM RECEPT	26	
27	RESTROOM OUTLETS	20 A	1		360	360		1	20 A DEDICATED TELECOM RECEPT	28	
29	TELEPHONE BOARD	20 A	1			360	360	1	20 A JEWELERS OUTLET	30	
31	DEDICATED TELECOM RECEPT	20 A	1	360	360			1	20 A CEILING/LIGHT RCPTS	32	
33	DEDICATED TELECOM RECEPT	20 A	1		360	360		1	20 A CEILING/LIGHT RCPTS	34	
35	DEDICATED TELECOM RECEPT	20 A	1			360	360	1	20 A CEILING/LIGHT RCPTS	36	
37	COFFEE STATION OUTLET	20 A	1	500	7860					38	
39	COFFEE STATION OUTLET	20 A	1		500	2280		3	100 A A1B	40	
41	COFFEE STATION OUTLET	20 A	1			500	4200			42	
Total Load:				17240 VA	11660 VA	14180 VA					
Total Amps:				146.90 A	97.17 A	121.40 A					
Load Classification			Connected Load	Demand Factor	Estimated Demand	Panel Totals					
LIGHTING	0 VA	0.00%	0 VA	Total Conn. Load: 43080 VA							
RECEPTACLE	17700 VA	78.25%	13850 VA	Total Est. Demand: 39230 VA							
HVAC	0 VA	0.00%	0 VA	Total Conn. Current: 119.58 A							
HEATING	0 VA	0.00%	0 VA	Total Est. Demand Current: 108.89 A							
KITCHEN	0 VA	0.00%	0 VA	Non-Coinc. Heat/AC Current: 0.00 A							
LARGEST MOTOR	0 VA	0.00%	0 VA	Total Est. Demand Current-NC: 108.89 A							
MOTORS	0 VA	0.00%	0 VA	Total Est. Demand Load-NC: 39230 VA							
MISCELLANEOUS	25380 VA	100.00%	25380 VA								
OTHER CONTINUOUS	0 VA	0.00%	0 VA								
* DENOTES PROVIDE LOCK-ON CIRCUIT BREAKER			+ DENOTES PROVIDE GFCI CIRCUIT BREAKER			# DENOTES PROVIDE AFCI CIRCUIT BREAKER					

Branch Panel: A2 (EXISTING PANELBOARD)											
Location: Supply From: Mounting: Enclosure: NEMA 1			Volts: 120/208 Wye Phases: 3 Wires: 4			A.I.C. Rating: EXISTING Mains Type: MCB Mains Rating: 200.00 A					
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	RP-1	20 A	1	0	90			1	20 A SALES LIGHTING	2	
3	SIGNAGE	20 A	1		100	200		1	20 A TIMECLOCK	4	
5	SIGNAGE	20 A	1			100	400	1	20 A SALES LIGHTING	6	
7	SPARE	20 A	1	0	540			1	20 A FLOOR BOXES	8	
9	SPARE	20 A	1		0	1095		1	20 A SALES LIGHTING	10	
11	EXTERIOR LIGHTING	20 A	1			564	720	1	20 A CUST SERVICE & CLERICAL RCPT	12	
13	FRONT ROOM LIGHTING	20 A	1	803	955			1	20 A SALES LIGHTING	14	
15	REAR ROOM LIGHTING	20 A	1		1281	1650		1	20 A SALES LIGHTING	16	
17	SALES LIGHTING	20 A	1			955	1000	1	20 A VENDING "GFCI BREAKER"	18	
19	SPARE	20 A	1	0	180			1	20 A GIFT WRAP OUTLETS	20	
21	SPARE	20 A	1		0	180		1	20 A VAULT OUTLET	22	
23	SALES LIGHTING	20 A	1			1143	180	1	20 A WATER COOLER "GFCI BREAKER"	24	
25	GIFT WRAP OUTLETS	20 A	1	360	180			1	20 A EXTERIOR RECEPTACLES	26	
27	SALES OUTLETS	20 A	1		540	720		1	20 A FLOOR BOXES	28	
29	CLERICAL OUTLETS	20 A	1			900	720	1	20 A FLOOR BOXES	30	
31	DCU/DSS-1	15 A	2	1082	5032					32	
33		20 A	1		1082	5032		3	60 A RTU-1	34	
35	LIGHT BOXES	20 A	1		900	5032				36	
37		20 A	2		5032	5032				38	
39	RTU-2	60 A	3		5032	5032		3	50 A RTU-3	40	
41		20 A	1			5032	5032			42	
Total Load:				19285 VA	21943 VA	22677 VA					
Total Amps:				160.71 A	186.26 A	192.38 A					
Load Classification			Connected Load	Demand Factor	Estimated Demand	Panel Totals					
LIGHTING	9848 VA	125.00%	12310 VA	Total Conn. Load: 63786 VA							
RECEPTACLE	6220 VA	100.00%	6220 VA	Total Est. Demand: 66248 VA							
HVAC	47449 VA	100.00%	47449 VA	Total Conn. Current: 177.05 A							
HEATING	0 VA	0.00%	0 VA	Total Est. Demand Current: 183.88 A							
KITCHEN	0 VA	0.00%	0 VA	Non-Coinc. Heat/AC Current: 131.70 A							
LARGEST MOTOR	0 VA	0.00%	0 VA	Total Est. Demand Current-NC: 183.88 A							
MOTORS	69 VA	100.00%	69 VA	Total Est. Demand Load-NC: 66248 VA							
MISCELLANEOUS	200 VA	100.00%	200 VA								
OTHER CONTINUOUS	0 VA	0.00%	0 VA								
* DENOTES PROVIDE LOCK-ON CIRCUIT BREAKER			+ DENOTES PROVIDE GFCI CIRCUIT BREAKER			# DENOTES PROVIDE AFCI CIRCUIT BREAKER					

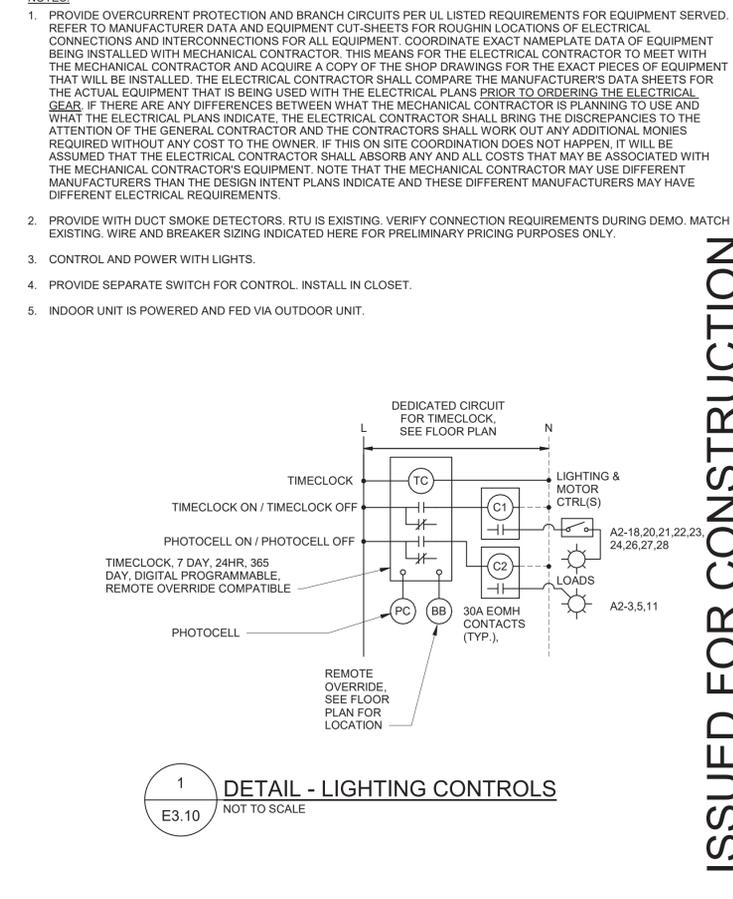
Branch Panel: A1B											
Location: Supply From: Mounting: Enclosure: NEMA 1			Volts: 120/208 Wye Phases: 3 Wires: 4			A.I.C. Rating: 10000A Mains Type: MLO Mains Rating: 100.00 A					
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	DISHWASHER "GFCI BREAKER"	20 A	1	900	360			1	20 A LOUNGE OUTLETS	2	
3	FRIDGE "GFCI BREAKER"	20 A	1		180	2100		1	20 A WH-3	4	
5		25 A	2			2100	2100	2	25 A WH-1	6	
7	WH-2	25 A	2	2100	4500					8	
9	SPACE	--	1		--	0				10	
11	SPACE	--	1		--	--	--	1	--	12	
13	SPACE	--	1	--	--			1	--	14	
15	SPACE	--	1	--	--			1	--	16	
17	SPACE	--	1	--	--			1	--	18	
19	SPACE	--	1	--	--			1	--	20	
21	SPACE	--	1	--	--			1	--	22	
23	SPACE	--	1	--	--			1	--	24	
25	SPACE	--	1	--	--			1	--	26	
27	SPACE	--	1	--	--			1	--	28	
29	SPACE	--	1	--	--			1	--	30	
31	SPACE	--	1	--	--			1	--	32	
33	SPACE	--	1	--	--			1	--	34	
35	SPACE	--	1	--	--			1	--	36	
37	SPACE	--	1	--	--			1	--	38	
39	SPACE	--	1	--	--			1	--	40	
41	SPACE	--	1	--	--			1	--	42	
Total Load:				7860 VA	2280 VA	4200 VA					
Total Amps:				67.96 A	19.00 A	37.46 A					
Load Classification			Connected Load	Demand Factor	Estimated Demand	Panel Totals					
LIGHTING	0 VA	0.00%	0 VA	Total Conn. Load: 14340 VA							
RECEPTACLE	1440 VA	100.00%	1440 VA	Total Est. Demand: 14340 VA							
HVAC	0 VA	0.00%	0 VA	Total Conn. Current: 39.80 A							
HEATING	0 VA	0.00%	0 VA	Total Est. Demand Current: 39.80 A							
KITCHEN	0 VA	0.00%	0 VA	Non-Coinc. Heat/AC Current: 0.00 A							
LARGEST MOTOR	0 VA	0.00%	0 VA	Total Est. Demand Current-NC: 39.80 A							
MOTORS	0 VA	0.00%	0 VA	Total Est. Demand Load-NC: 14340 VA							
MISCELLANEOUS	12900 VA	100.00%	12900 VA								
OTHER CONTINUOUS	0 VA	0.00%	0 VA								
* DENOTES PROVIDE LOCK-ON CIRCUIT BREAKER			+ DENOTES PROVIDE GFCI CIRCUIT BREAKER			# DENOTES PROVIDE AFCI CIRCUIT BREAKER					



SUBMITTAL NOTE TO GC AND SUB-CONTRACTORS:
COORDINATE ALL MECHANICAL, ELECTRICAL, FIRE ALARM, SPRINKLER AND PLUMBING DEVICES/EQUIPMENT SUBMITTALS WITH ESSENTIAL PARTIES INCLUDING BUT NOT LIMITED TO: ELECTRICAL, MECHANICAL, PLUMBING, FIRE ALARM, SPRINKLER, AND MILLWORK CONTRACTORS. PRIOR TO SENDING SUBMITTALS FOR APPROVAL, ALL AFFECTED DISCIPLINES MUST INCLUDE A SIGNATURE OF APPROVAL ENSURING THAT ALL NECESSARY PARTIES HAVE HAD AN OPPORTUNITY TO REVIEW SAID SUBMITTAL AND RAISE ANY CONCERNS ABOUT EQUIPMENT BEING USED AND THE MEANS AND METHODS TO INSTALL SUCH EQUIPMENT. UPON RECEIVING A SUBMITTAL WITHOUT THE NECESSARY PARTY SIGNATURES, THE SUBMITTAL WILL IMMEDIATELY BE REJECTED WITHOUT REVIEW UNTIL THE SIGNATURES HAVE BEEN PROVIDED.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE							
UNIT TYPE MARK	UNIT IDENTIFIER	PANEL NAME	Circuit Number	FEEDER SIZE	DISCONNECTING MEANS	LOAD	NOTES
DCU	1	A2	31.33	2#12, 1#12(G), 1/2" C	WP MRS	15 MCA	1
DSS	1	A2	31.33	2#12, 1#12(G), 3/4" C	MRS	-	1, 5
EF	1	A2	15	2#12, 1#12(G), 1/2" C	MRS	23.00 W	1, 3
EF	2	A2	15	2#12, 1#12(G), 1/2" C	MRS	23.00 W	1, 3
EF	3	A2	13	2#12, 1#12(G), 1/2" C	MRS	23.00 W	1, 4
EF	4	A2	13	2#12, 1#12(G), 1/2" C	MRS	23.00 W	1, 3
RB	1	A2	1	2#12, 1#12(G), 1/2" C	MRS	188W	-A
RTU	1	A2	32.34.36	3#6, 1#10(G), 3/4" C	60/3/3R/F60A	38.20 MCA	1, 2
RTU	2	A2	37.39.41	3#6, 1#10(G), 3/4" C	60/3/3R/F60A	38.20 MCA	1, 2
RTU	3	A2	38.40.42	3#6, 1#10(G), 3/4" C	60/3/3R/F50A	41.90 MCA	1, 2
WH	1	A1B	8.10	2#10, 1#10(G), 1/2" C	30/2/1/NF	4.50 kW	1
WH	2	A1B	5.7	2#10, 1#10(G), 3/4" C	30/2/1/NF	4.20 kW	1
WH	3	A1B	4.6	2#10, 1#10(G), 3/4" C	30/2/1/NF	4.20 kW	1

NOTES:
1. PROVIDE OVERCURRENT PROTECTION AND BRANCH CIRCUITS PER UL LISTED REQUIREMENTS FOR EQUIPMENT SERVED. REFER TO MANUFACTURER DATA AND EQUIPMENT CUT-SHEETS FOR ROUGH IN LOCATIONS OF ELECTRICAL CONNECTIONS AND INTERCONNECTIONS FOR ALL EQUIPMENT. COORDINATE EXACT NAMEPLATE DATA OF EQUIPMENT BEING INSTALLED WITH MECHANICAL CONTRACTOR. THIS MEANS FOR THE ELECTRICAL CONTRACTOR TO MEET WITH THE MECHANICAL CONTRACTOR AND ACQUIRE A COPY OF THE SHOP DRAWINGS FOR THE EXACT PIECES OF EQUIPMENT THAT WILL BE INSTALLED. THE ELECTRICAL CONTRACTOR SHALL COMPARE THE MANUFACTURER'S DATA SHEETS FOR THE ACTUAL EQUIPMENT THAT IS BEING USED WITH THE ELECTRICAL PLANS PRIOR TO ORDERING THE ELECTRICAL GEAR. IF THERE ARE ANY DIFFERENCES BETWEEN WHAT THE MECHANICAL CONTRACTOR IS PLANNING TO USE AND WHAT THE ELECTRICAL PLANS INDICATE, THE ELECTRICAL CONTRACTOR SHALL BRING THE DISCREPANCIES TO THE ATTENTION OF THE GENERAL CONTRACTOR AND THE CONTRACTORS SHALL WORK OUT ANY ADDITIONAL MONIES REQUIRED WITHOUT ANY COST TO THE OWNER. IF THIS ON SITE COORDINATION DOES NOT HAPPEN, IT WILL BE ASSUMED THAT THE ELECTRICAL CONTRACTOR SHALL ABSORB ANY AND ALL COSTS THAT MAY BE ASSOCIATED WITH THE MECHANICAL CONTRACTOR'S EQUIPMENT. NOTE THAT THE MECHANICAL CONTRACTOR MAY USE DIFFERENT MANUFACTURERS THAN THE DESIGN INTENT PLANS INDICATE AND THESE DIFFERENT MANUFACTURERS MAY HAVE DIFFERENT ELECTRICAL REQUIREMENTS.
2. PROVIDE WITH DUCT SMOKE DETECTORS. RTU IS EXISTING. VERIFY CONNECTION REQUIREMENTS DURING DEMO. MATCH EXISTING. WIRE AND BREAKER SIZING INDICATED HERE FOR PRELIMINARY PRICING PURPOSES ONLY.
3. CONTROL AND POWER WITH LIGHTS.
4. PROVIDE SEPARATE SWITCH FOR CONTROL. INSTALL IN CLOSET.
5. INDOOR UNIT IS POWERED AND FED VIA OUTDOOR UNIT.



LIGHTING FIXTURE SCHEDULE						
FIXTURE MARK	MANUFACTURER	MODEL	VOLTAGE	LAMP	DESCRIPTION	
A	ELITE	HHJ4-LED-900L-DIM10-MVOLT-MD-50K-90+HH44501-WH-WH-BRACKETS	120 V	10W LED MAX	4" RECESSED DOWNLIGHT W/ WHITE FINISHES AND HANGER BAR	
B	SOLAIS	XFR12-XM20-15C-50K/1100-WH/WH	120 V	29W LED	RECESSED LED 2 COMBO	
C	ELITE	HHJ4-LED-900L-DIM10-MVOLT-MD-50K-90+HH44501-MB-BK	120 V	10W LED MAX	4" RECESSED DOWNLIGHT WITH QUICK CONNECT AND BLACK FINISHES	
D	ELITE	HH4LED1200LDIM10MVOLTMD40K90+HH44501W-WH	120 V	16W LED	4" RECESSED DOWNLIGHT	
D1	ELITE	HH4LED1200LDIM10MVOLTMD40K90EM+HH44501W-WH	120 V	16W LED	4" LED RECESSED DOWNLIGHT WITH EMERGENCY BATTERY PACK	
E	CREE	C-TR-C-FP24-37L-40K-WH	120 V	29W LED	2X4 LED PANEL	
E1	CREE	C-TR-C-FP24-37L-40K-WH-EB	120 V	29W LED	2X4 LED PANEL WITH WITH EMERGENCY BATTERY PACK	
EM1	ENVISION	LED-SL-PNL-6SQ14W-TRI-WHT-EMB	120 V	14W LED	LED RECESSED DOWNLIGHT WITH BATTERY PACK	
EM2	LIGHTALARMS	LCAB-2S-LED	120 V	INCLUDED	STANDARD EMERGENCY LIGHT	
F	ENVISION	LED-CBT-2X2-35W-50K-HL	120 V	35W LED	2X4 LED INDIRECT TROFFER	
F1	ENVISION	LED-CBT-2X2-35W-50K-HL-EMB	120 V	35W LED	2X4 LED INDIRECT TROFFER WITH BATTERY PACK	
J	JESCO	DL-FLEX2-UP SERIES PLUS MULTIPLE PARTS TO COMPLETE RUNS	120 V	3.8W/FT LED	LED TAPE LIGHT, LENGTH PER PLANS	
K	MERCURY	MLS2-F-CUSTOM-50K-HFA-1%U	120 V	3.5W/FT	2" RECESSED LED LINEAR	
L	IDEOI	1107-0021	120 V	45W LED	LED EXTERIOR RATED SCNGE	
M	LUMARK	XTOR1B-W-BK	120 V	12W LED	LED WALL PACK EXTERIOR RATED	
P	CREE	FLP22-D38W40	120 V	31W LED	2X2 LED PANEL	



COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Diamonds Direct - Mayfair
Project Type: New Construction

Construction Site:
2600 N Mayfair Road
Wauwatosa, WI 53226

Owner/Agent:
Diamonds Direct

Designer/Contractor:
Andrew Swinford
Savant Engineering
5064 Roswell Road
Suite D 301
Sandy Springs, GA 30342
770-319-7400
ASwinford@savanteng.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power: 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Retail	6198	1.13	7029
Total Allowed Watts =			7029

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Retail				
A: Other:	1	31	10	310
B: Other:	1	15	29	435
C: Other:	1	275	10	2750
D: Other:	1	2	16	32
D1: Other:	1	2	16	32
E: Other:	1	16	29	464
E1: Other:	1	13	29	377
F: Other:	1	4	35	140
F1: Other:	1	4	35	140
J: Other:	1	247	4	939
K: Other:	1	292	4	1022
P: Other:	1	2	31	62
P1: Other:	1	4	31	124
R: Other:	1	3	59	177
Total Proposed Watts =				7004

Project Title: Diamonds Direct - Mayfair Report date: 07/07/23
Data filename: M:\2023\23099 Diamonds Direct - Wauwatosa, WI\Design\Electrical\Diamonds Direct Mayfair - Page 1 of 6
Wauwatosa, WI.cck

Interior Lighting PASSES: Design 0.4% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

A. Swinford - Electrical Designer Signature Date 7/7/23

Project Title: Diamonds Direct - Mayfair Report date: 07/07/23
Data filename: M:\2023\23099 Diamonds Direct - Wauwatosa, WI\Design\Electrical\Diamonds Direct Mayfair - Page 2 of 6
Wauwatosa, WI.cck



PHILLIPS

CONSULTANT

Jonathan Gentry, PE

5064 Roswell Road, Suite D-301
Sandy Springs GA 30342 770.319.7400
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SEAL



ISSUE & REVISION RECORD

#	DATE	DESCRIPTION
	07/20/2023	TI PERMIT SET

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PROJECT

DIAMONDS DIRECT
2600 N Mayfair RD
Wauwatosa, WI 53226

CLIENT



DIAMONDS DIRECT

PHILLIPS JOB NUMBER 2336402

ISSUE DATE 06/30/2023

DRAWN BY/CHECKED BY AJS / JG

DRAWING TITLE COMCHECK

SHEET NUMBER

E3.11

5901 PEACHTREE DUNWOODY RD.
BUILDING A, SUITE 450
ATLANTA, GEORGIA 30328
PHILLIPS PART.COM 770-394-1616

ISSUED FOR CONSTRUCTION