

## APPEARANCE REVIEW APPLICATION

VILLAGE OF LIBERTYVILLE  
COMMUNITY DEVELOPMENT DEPARTMENT  
200 EAST COOK AVENUE  
LIBERTYVILLE, IL 60048  
(847) 918-2028  
(847) 367-5148 (Fax)

DATE: 08/09/2024



<u>REQUESTED ACTION(S) (check all that apply)</u>	
<input type="checkbox"/> Building Facades	<input type="checkbox"/> Lighting
<input type="checkbox"/> Landscaping	<input type="checkbox"/> Signage
<input checked="" type="checkbox"/> Other <u>Dock and Man Doors</u>	

TO THE VILLAGE PRESIDENT, VILLAGE BOARD OF TRUSTEES AND THE APPEARANCE REVIEW COMMISSION OF THE VILLAGE OF LIBERTYVILLE, LAKE COUNTY, ILLINOIS 60048.

The applicant(s) Jessica Lies represents that they are the OWNER \_\_\_\_\_, AUTHORIZED AGENT  (please check correct term) of the property commonly known as: (street address) 1950-2000 USG Drive.

If someone other than the applicant(s) has the title to the property, please provide a written statement from the owner(s) which acknowledges and consents to this request.

The property is now classified under the Libertyville Zoning Code and is located in the O-2 District.  
(Office, Manufacutring and Distribution Park)

Jessica Lies  
applicant/representative signature  
The Interior Design Group Ltd.

750 Warrenville Road, Suite 103, Lisle, IL  
address of applicant/representative

(630) 348 - 0409  
phone number

jlies@idgltd.com  
e-mail

**NOTE!** If several parties are involved with the project (i.e., architect, engineer, consultant, etc.), please attach a list including the names, addresses and phone numbers of such parties. This application must be complete before it will be accepted by the Village.

**VILLAGE OF LIBERTYVILLE  
PROPERTY OWNER'S AUTHORIZATION  
FOR ARC**

DATE: 08/09/2024

I, Robert Damrat, Owner of the  
Property Owner

property located at 1950 - 2000 USG Drive, Libertyville, Illinois, do hereby  
Address/Location

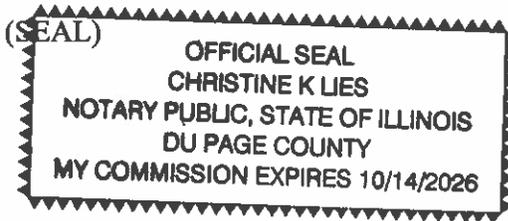
authorize Jessica Lies to represent me in the following  
Authorized Agent

ARC matter(s), Appearance review for new dock doors and man door  
Action(s)

in the Village of Libertyville.

Christine K. Lies  
Notary Signature

DocuSigned by:  
Robert Damrat  
20F0A473EEF3481  
Property Owner Signature



Robert Damrat  
Property Owner Name, Printed

9550 Whiggins Road Rosemont, IL 60018  
Address

Phone Number



August 9, 2024

Village of Libertyville  
Community Development Department  
200 East Cook Avenue  
Libertyville, IL 60048

**RE: 1950 - 2000 USG Drive Appearance Review**

To whom it may concern,

Included, you will find the requested appearance review submittal information for the above mentioned building. The packet contains one copy of each of the following:

- Appearance Review Application
- Property Owner's Authorization
- Written Narrative for the Minimal Exterior Remodeling/Alterations
- Site Plan
- Rendered Elevation/Proposed Rendering
- Full Set of Construction Documents for Reference.

Please note that none of the following are to be revised or altered (existing to remain):

- Landscaping (No change)
- Signage (No change)
- Lighting (No change. Exception: Egress lighting as required by code. See narrative)

Best regards,

THE INTERIOR DESIGN GROUP LTD.

  
Jessica M. Lies  
Director of Architecture | Architect

THE INTERIOR DESIGN GROUP LTD.



## **NARRATIVE**

The scope of work for the above mentioned address is minor alterations to sub demise the existing building into two (2) separate suites with a price as alternate to separate into three (3) suites. The current occupancy/use of the building is to remain the same. The scope of work includes:

### Interior Work:

- Construction of fire rated demising wall(s).
- Separate existing electrical services and provide new services as required for each suite.
- Existing lighting and life safety to remain. Upgrade interior lighting only as noted in the complete construction document set (see attached).

### Exterior Work:

- One (1) new man door with stairs at suite 2000.
- Two (2) new dock doors with levelers (to match existing in size, color and configuration) at suite 2000.
- Existing landscaping to remain as is.
- Existing signage to remain as is except for new contrasting signage on doors to designate new suite addresses as required by Libertyville.
- Exterior lighting is to remain as is. Add new remote battery pack egress light as required by code at new exterior man door.
- Exterior finishes are to remain as is.
- Existing traffic patterns and flow are to remain as is.

STATE OF ILLINOIS

Jesse White



Secretary of State

NOTARY PUBLIC

To all to whom these Presents Shall Come, Greeting:

I, Jesse White, Secretary of State of the State of Illinois, do hereby appoint and commission

CHRISTINE K LIES

County of DU PAGE residing at 28W720 MACK RD WEST CHICAGO IL 60185

a Notary Public of the State of Illinois, for a commission term as specified below.

OCTOBER 14, 2022

Commission Begins

OCTOBER 14, 2026

Commission Expires

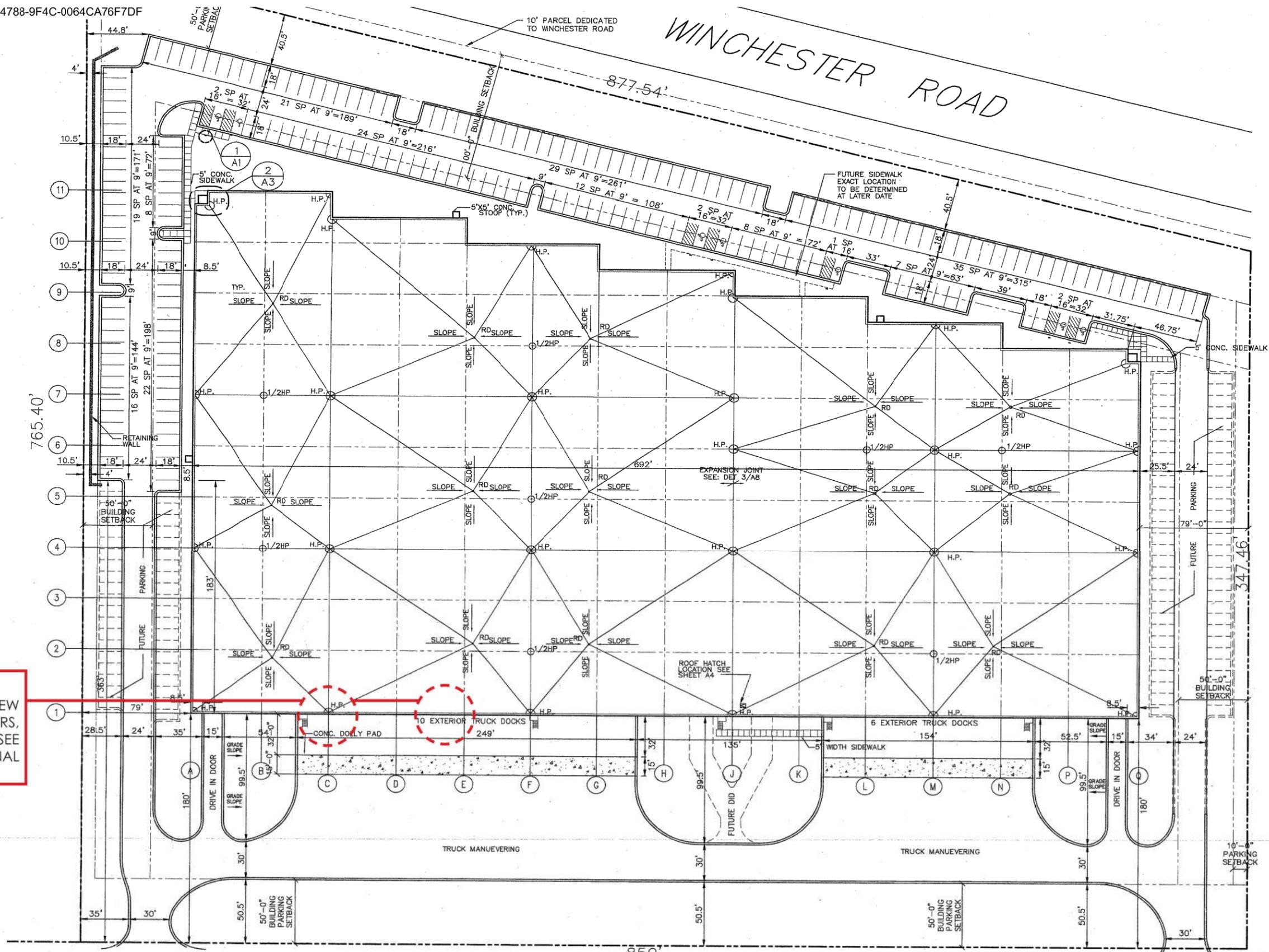


In Testimony Whereof, I hereto set my hand and the State Seal

this 14TH day of OCTOBER A.D. 2022

Commission No.: 386206

Jesse White Secretary of State



**AREA OF WORK**  
 LOCATION OF TWO (2) NEW PROPOSED OVERHEAD DOORS, MAN DOOR AND STAIRS. SEE RENDERING FOR ADDITIONAL INFORMATION.

### APPEARANCE REVIEW

1950-2000 USG DRIVE, LIBERTYVILLE, IL 60048

PROJECT #: 25775-24

DATE: 08 | 09 | 2024

## USG DRIVE SITE PLAN

SCALE 1:80



**EXISTING**



- ① NEW 8'-6" WIDE BY 9'-6" HIGH OVERHEAD DOOR TO MATCH EXISTING
- ② NEW 3'-0" X 7'-0" MAN DOOR WITH EMERGENCY LIGHT ABOVE TO MATCH EXISTING
- ③ NEW STEEL STAIR AND LANDING WITH BOLLARDS TO MATCH EXISTING

**PROPOSED**



**APPEARANCE REVIEW**

1950-2000 USG DRIVE, LIBERTYVILLE, IL 60048

PROJECT #: 25775-24

DATE: 08 | 09 | 2024

**PROPOSED RENDERING - SOUTH ELEVATION**





THE INTERIOR DESIGN GROUP LTD.

750 WARRENVILLE ROAD | SUITE 103  
LISLE, ILLINOIS 60532  
PHONE 630 | 348 | 0400  
FAX 630 | 348 | 0388  
www.idglltd.com

PROJECT DESIGN TEAM:

ARCHITECT: JESSICA LIES  
PROJECT MANAGER: JESSICA LIES  
REVIEWER: RYAN DEBARI  
DRAWN BY: LAUREN WELD  
REVISED BY: LAUREL LANG

MANAGEMENT:

LINK LOGISTICS  
9550 W. HIGGINS ROAD  
ROSEMONT, ILLINOIS 60018

BUILDING INFORMATION	
HEIGHT OF BUILDING:	1 STORY
BUILDING/CONSTRUCTION CLASSIFICATION:	IB
OCCUPANCY CLASSIFICATION:	"B" - BUSINESS "S1" - STORAGE
FIRE CONTROL:	
-SPRINKLER:	YES
-MONITORED:	YES
-ALARMED:	YES
-HORN/STROBE:	YES
-SPRAY FIRE PROTECTION:	NO
EMERGENCY GENERATOR:	NO
<b>AREA OF SUITE #2000:</b>	
OFFICE:	8,086 U.S.F.
OCCUPANT LOAD:	54 PEOPLE (150 S.F./PERSON)
<b>AREA OF SUITE #1980:</b>	
WAREHOUSE:	89,610 U.S.F.
OCCUPANT LOAD:	180 PEOPLE (500 S.F./PERSON)
<b>AREA OF SUITE #1950:</b>	
WAREHOUSE:	92,114 U.S.F.
OCCUPANT LOAD:	NONE [VACANT]

CODES OBSERVED	
<ul style="list-style-type: none"> <li>2018 INTERNATIONAL BUILDING CODE</li> <li>2018 INTERNATIONAL FIRE CODE</li> <li>2018 INTERNATIONAL FUEL GAS CODE</li> <li>2018 INTERNATIONAL MECHANICAL CODE</li> <li>2018 ILLINOIS ACCESSIBILITY CODE</li> <li>2018 INTERNATIONAL PROPERTY MAINTENANCE CODE</li> <li>2017 NATIONAL ELECTRIC CODE</li> <li>2014 ILLINOIS PLUMBING CODE</li> <li>2021 INTERNATIONAL ENERGY CONSERVATION CODE</li> <li>2018 INTERNATIONAL EXISTING BUILDING CODE</li> </ul>	
INTERIOR FINISH CLASSIFICATION	
CLASS A:	FLAME SPREAD 0-25; SMOKE DEVELOPED 0-450
CLASS B:	FLAME SPREAD 26-75; SMOKE DEVELOPED 0-450
CLASS C:	FLAME SPREAD 76-200; SMOKE DEVELOPED 0-450
VERTICAL EXITS AND PASSAGEWAYS:	B C C
CORRIDORS:	B C C
ROOMS AND ENCLOSED SPACES:	B C C
CEILINGS:	B C C
WALLS:	B C C
FLOORS:	PER DOC FF-1 "PILL TEST" (CPSC 16CFR, PART 1630)

**NOTE:**  
PROJECT SUB-CONTRACTORS ARE TO SUBMIT SEPARATE APPLICATIONS FOR EACH OF THE FOLLOWING TRADES:

- COMMUNICATION/LOW VOLTAGE
- CITY/VILLAGE APPROVED ALARM SUPERVISION
- FIRE SUPPRESSION
- FIRE ALARM
- SIGNS

LICENSED ARCHITECT:	ILLINOIS 001.025419 EXPIRES - 11/30/2024
REGISTERED INTERIOR DESIGNER:	ILLINOIS 161-001461 EXPIRES - 08/31/2025
REGISTERED DESIGN FIRM ARCHITECT:	ILLINOIS 184.007779 EXPIRES - 04/30/2025

**DISCLAIMER NOTE:**

- THE INTERIOR DESIGN GROUP LTD. IS NOT RESPONSIBLE FOR THE PREPARATION OF ANY ENGINEERING DRAWINGS AND DOES NOT TAKE ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE ENGINEERING DRAWINGS PREPARED AND PROVIDED BY OTHERS.

IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE COPIES OF THE FULL SET OF ARCHITECTURAL AND ENGINEERING DRAWINGS TO EACH SUBCONTRACTOR PRIOR TO CONSTRUCTION. IF ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL DRAWINGS AND ENGINEERING DRAWINGS ARE DISCOVERED, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE INTERIOR DESIGN GROUP LTD. OF SUCH CONFLICTS, BEFORE PROCEEDING WITH ANY WORK.

- ALL CONTRACTOR ARE RESPONSIBLE FOR READING THROUGH NOTES ON THE "N-1" AND "N-2" SHEETS. ALL INFORMATION OUTLINED IS TO BE INCLUDED IN ALL BIDS.

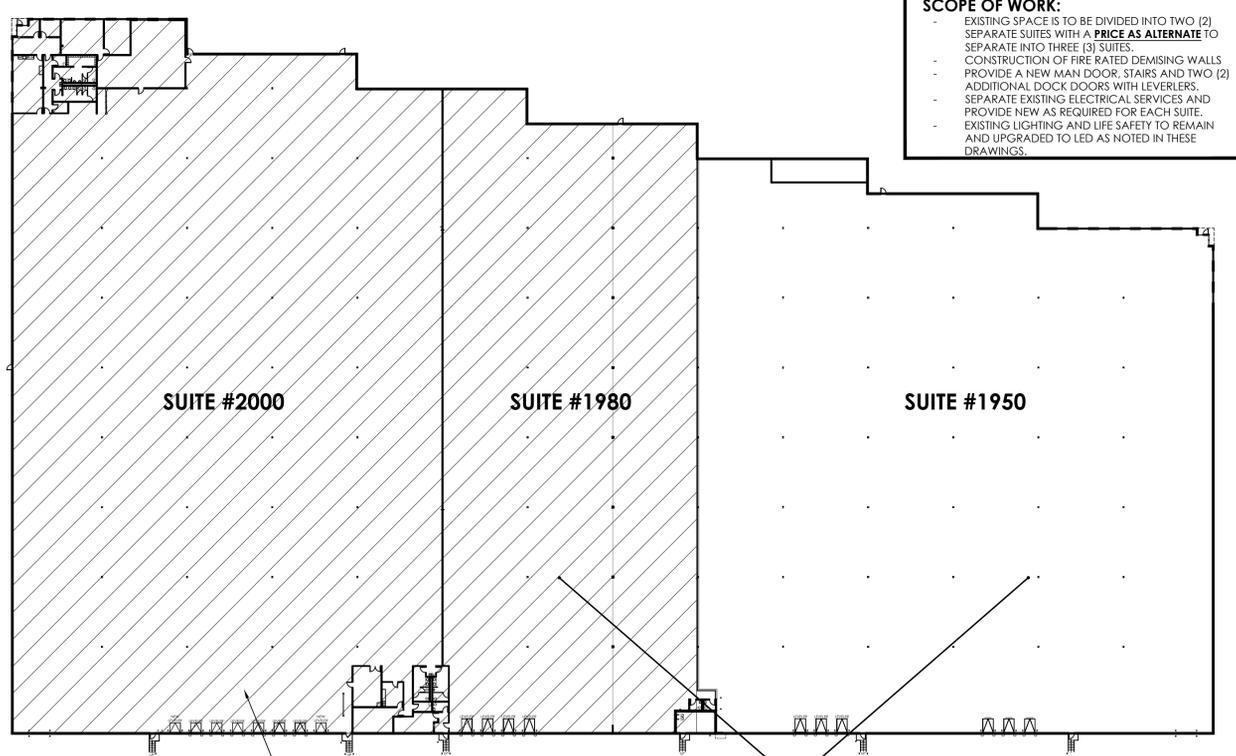
- THE INTERIOR DESIGN GROUP LTD. MAY NOT OVERSEE THE CONSTRUCTION OF THIS PROJECT. THE USE OF THESE DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, TRADESMAN OR WORKER SHALL INSTIGATE A HOLD HARMLESS AGREEMENT BETWEEN THE DRAWING USER AND THE INTERIOR DESIGN GROUP LTD.

THE USER SHALL IN FACT AGREE TO HOLD THE INTERIOR DESIGN GROUP LTD. HARMLESS FOR ANY RESPONSIBILITY IN REGARD TO CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES AND ANY SAFETY PRECAUTIONS OR PROGRAMS IN CONNECTION WITH THE WORK BEING DONE. FURTHERMORE, THE USER SHALL HOLD THE INTERIOR DESIGN GROUP LTD. HARMLESS FOR COSTS AND PROBLEMS ARISING FROM THE NEGLIGENCE OF CONTRACTOR, SUBCONTRACTOR, TRADESMAN OR WORKER. THE USE OF THESE DRAWINGS ALSO IMPLIES THAT THE INTERIOR DESIGN GROUP LTD. SHALL TAKE NO RESPONSIBILITY FOR THE PLAN USER'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE DRAWING OR CONTRACT DOCUMENTS.

# DEMISED SUITES

## 1950-2000 USG DRIVE LIBERTYVILLE, ILLINOIS 60048

KEY PLAN: ↑



**SCOPE OF WORK:**

- EXISTING SPACE IS TO BE DIVIDED INTO TWO (2) SEPARATE SUITES WITH A PRICE AS ALTERNATE TO SEPARATE INTO THREE (3) SUITES.
- CONSTRUCTION OF FIRE RATED DEMISING WALLS
- PROVIDE A NEW MAIN DOOR, STAIRS AND TWO (2) ADDITIONAL DOCK DOORS WITH LEVERLERS.
- SEPARATE EXISTING ELECTRICAL SERVICES AND PROVIDE NEW AS REQUIRED FOR EACH SUITE.
- EXISTING LIGHTING AND LIFE SAFETY TO REMAIN AND UPGRADED TO LED AS NOTED IN THESE DRAWINGS.

**NOTE:**  
THESE SUITES WILL REMAIN VACANT. BUILD-OUT DRAWINGS FOR FUTURE TENANT WILL BE SUBMITTED SEPARATELY FOR PERMIT.

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STATEMENT OF COMPLIANCE:

I HEREBY CERTIFY THAT I AM A REGISTERED ARCHITECT IN THE STATE OF ILLINOIS. THESE DRAWINGS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, COMPLY WITH THE APPLICABLE RULES, REGULATIONS AND STANDARDS SET FORTH WITHIN THE JURISDICTIONAL CODES.

ARCHITECT: JESSICA LIES  
 LICENSE NUMBER: 001.025419, STATE OF ILLINOIS REGISTRATION.  
 LICENSE EXPIRATION: NOVEMBER 30, 2024  
 ILLINOIS PROFESSIONAL DESIGN FIRM REGISTRATION: 184.007779

DATE: 08 | 01 | 2024

TENANT:

DEMISED SUITES  
 1950-2000 USG DRIVE  
 LIBERTYVILLE, ILLINOIS 60048

PROJ. NO.	25775-24	SUITE #2000 U.S.F. 97,696	SUITE #1980 U.S.F. 52,390
SUBMITTED:		DATE:	

PER PERMIT COMMENTS:	08   01   2024
FOR PERMIT:	06   17   2024
FOR BID:	06   11   2024
PER TENANT REVIEW:	06   11   2024
FOR APPROVAL:	05   20   2024
DRAWN:	05   14   2024
SHEET TITLE:	

TITLE PAGE  
 SHEET NO.: TP-1

**NOTE:**  
WHERE "RESPONSIBLE PARTY" IS MENTIONED, IT MAY REPRESENT ONE OR MORE OF THE FOLLOWING:

- BUILDING MANAGEMENT
- BUILDING ENGINEER
- BUILDING SECURITY
- TENANT
- CLIENT
- OWNER

### GENERAL NOTES

1. THE VILLAGE / CITY APPROVED PLANS MUST BE ON THE JOB SITE AT ALL TIMES.
2. ALL CONTRACTORS AND SUBCONTRACTORS ARE TO FIELD VERIFY THE SCOPE OF WORK TO BE COMPLETED BEFORE SUBMITTING BIDS. THE RESPONSIBLE PARTY IS AVAILABLE TO ANSWER QUESTIONS, AND IT IS HIGHLY RECOMMENDED THAT THEY BE CONSULTED.
3. CONTRACTOR(S) SHALL VERIFY ALL DIMENSIONS AND ALL CONDITIONS SHOWN ON DRAWINGS AT THE JOB SITE AND SHALL NOTIFY THE RESPONSIBLE PARTY AND THE INTERIOR DESIGN GROUP LTD. OF ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS BEFORE PROCEEDING WITH THIS PROJECT.
4. CONTRACTOR SHALL NOTIFY THE INTERIOR DESIGN GROUP LTD. OF ANY UNFORESEEN JOB CONDITIONS WHICH MAY AFFECT PROJECT COST TO WORK OUT A COST EFFECTIVE SOLUTION PRIOR TO PROCEEDING. EXTRA WORK AND/OR EXTRA COSTS MUST BE APPROVED IN WRITING PRIOR TO CONSTRUCTION OF SUCH WORK.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST AND ACQUISITION OF ALL NECESSARY BUILDING PERMITS. PERMITS ARE TO BE POSTED ON JOB SITE UNTIL AN OCCUPANCY PERMIT IS OBTAINED FROM THE GOVERNING MUNICIPALITY.
6. THE GENERAL CONTRACTOR IS TO OBTAIN THE OCCUPANCY PERMIT FROM THE GOVERNING MUNICIPALITY UPON PROJECT COMPLETION AND SUBMIT PAPER DOCUMENT TO THE RESPONSIBLE PARTY FOR THEIR RECORDS.
7. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE PLANS, ELEVATIONS AND SECTIONS.
8. CONTRACTOR(S) SHALL NOT REMOVE ANY MATERIALS, (SIDELIGHTS, DOOR ASSEMBLIES, LIGHT FIXTURES, ETC.) FROM AREAS NOT IN CONTRACT (N.I.C.) UNLESS ILLUSTRATED AS DEMOLITION AND NOTED AS RELOCATED IN THESE DOCUMENTS OR CONTRACTOR HAS WRITTEN APPROVAL FROM THE RESPONSIBLE PARTY TO DO SO.
9. ALL CONSTRUCTION SHALL CONFORM TO FEDERAL, STATE AND LOCAL BUILDING CODES, WHICH EVER IS MOST STRINGENT FOR WORK OF THIS TYPE.
10. WHERE NEW WORK CONNECTS WITH EXISTING, ALL REQUIRED WORK SHALL BE INCLUDED IN THE CONTRACT, WHETHER OR NOT SHOWN OR INDICATED IN THESE DOCUMENTS.
11. ALL WORK IS TO BE COMPLETED IN "PROFESSIONAL WORKMAN LIKE MANNER" ESTABLISHED BY THE ORGANIZATION/UNION FOR THE ASSOCIATED TRADE.
12. DRAWINGS ARE FOR ARCHITECTURAL WORK. FINISH AND LAYOUT ONLY.
13. NO HAZARDOUS MATERIALS ARE TO BE USED OR STORED ON SITE WHICH DOES NOT COMPLY WITH ALL THE GOVERNING MUNICIPALITIES OR STATE REGULATIONS.
14. CONTRACTOR IS TO BLOCK OFF SUPPLY AND RETURN DIFFUSERS, AIR GRILLES, AND DUCTS WHILE DEMOLITION AND CONSTRUCTION ARE TAKING PLACE. IT IS THE CONTRACTORS RESPONSIBILITY TO REMOVE ALL RETURN DIFFUSERS, AIR GRILLES, AND DUCTS OBSTRUCTIONS BEFORE FINAL CLEANING AND TURNING SPACE OVER TO THE RESPONSIBLE PARTY.
15. THE WORD "TYPICAL" WHEN USED IN THESE DOCUMENTS, MEANS THE CONDITION AND/OR DETAIL IS THE SAME FOR ALL SIMILAR CONDITIONS WITHIN THESE DOCUMENTS, UNLESS OTHERWISE NOTED.
16. THE GENERAL CONTRACTOR AND ALL THE SUB-CONTRACTORS ARE TO COMPLY WITH ALL O.S.H.A. REQUIREMENTS FOR WORK OUTLINED WITHIN THESE DOCUMENTS.
17. ALL MATERIALS, METHODS OF INSTALLATION AND FINISHING OF CONSTRUCTION SYSTEMS SHALL CONFORM TO THE MANUFACTURERS' SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR THE EXPECTED USE (PARTITIONS, CEILINGS, DOORS, FRAMES, FLOORS, ETC.)
18. ALL WORK AND MATERIALS ARE TO BE GUARANTEED AGAINST DEFECTS IN DESIGN, WORKMANSHIP AND MATERIALS FOR A PERIOD OF AT LEAST ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE. ALL DEFECTS OCCURRING WITHIN THE GUARANTEED PERIOD SHALL BE CORRECTED AT NO COST TO THE RESPONSIBLE PARTY.
19. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE RESPONSIBLE PARTY FOR REGULATIONS INCLUDING BUT NOT NECESSARILY LIMITED TO: RUBBISH REMOVAL, PROTECTION OF BASE BUILDING CONSTRUCTION, AND ANY WORK WHICH WILL AFFECT OTHER TENANTS OR OTHER PARTS OF THE BUILDING.

20. GENERAL CONTRACTOR SHALL PROVIDE DETAILED JOB SCHEDULE TO THE RESPONSIBLE PARTY PRIOR TO THE START OF PROJECT. THE SCHEDULE IS TO OUTLINE EACH PHASE OF THE PROJECT AND THE DAY EACH PHASE HAS TO BE COMPLETED IN ORDER TO MEET THE ESTABLISHED DEADLINE.
21. ALL CONTRACTORS ARE RESPONSIBLE FOR THE COORDINATION OF THEIR WORK WITH ALL OTHER TRADES. WORK SHALL BE PROPERLY SEQUENCED TO COINCIDE WITH THE PROJECT CONSTRUCTION SCHEDULE TO AVOID DELAY OF THE PROJECT COMPLETION OR THE WORK OF THE OTHER TRADES.
22. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFE GUARDS, BARRIERS, TEMPORARY POWER, LIGHTING, FIRE PROTECTION, ETC., AS REQUIRED DURING DEMOLITION/CONSTRUCTION.
23. THE GENERAL CONTRACTOR SHALL PROTECT AREA AND NEW OR EXISTING MATERIALS AND FINISHES FROM DAMAGE WHICH MAY OCCUR FROM CONSTRUCTION, DUST, WATER, ETC. DAMAGE TO EXISTING MATERIALS, FINISHES, STRUCTURE, AND EQUIPMENT SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE RESPONSIBLE PARTY AT THE EXPENSE OF THE GENERAL CONTRACTOR.
24. THE GENERAL CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS OF ALL SUBCONTRACTORS AND TRADES ON A DAILY BASIS, AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING TO PREVENT ANY DIRT, DEBRIS OR DUST FROM AFFECTING ANY FINISHED AREA, WHETHER WITHIN OR OUTSIDE THE JOB SITE.
25. THE GENERAL CONTRACTOR IS TO CAREFULLY REMOVE ANY BUILDING MATERIALS NOT SPECIFIED OR ILLUSTRATED TO BE USED IN THIS PROJECT AND COORDINATE ON SITE STORAGE LOCATION OR DISPOSAL WITH BUILDING MANAGEMENT (CABINERY, DOORS, SIDELIGHTS, ETC.).
26. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL TURN THE PROJECT OVER TO THE RESPONSIBLE PARTY FREE FROM ALL CONSTRUCTION DEBRIS; MATERIAL AND EQUIPMENT. ALL INTERIOR GLASS FREE OF LABELS, AND CLEANED ON BOTH SIDES. ALL MILLWORK AND BUILT-INS FREE OF DIRT, GREASE AND OTHER FOREIGN MATERIALS. ALL RESILIENT FLOORINGS MOP CLEANED. VINYL WALL COVERINGS FREE OF DIRT AND OTHER FOREIGN MATERIALS.
27. ALL TRADES SHOULD CHECK IN WITH THE RESPONSIBLE PARTY UPON THE START OF EVERY NEW PHASE OF THE PROJECT AND WEEKLY THROUGHOUT THE CONSTRUCTION PROJECT.
28. NOTHING IS TO BE ATTACHED TO THE BUILDING DUCTWORK. ALL ATTACHMENTS ARE TO BE MADE TO THE TOP RAIL OF THE BAR JOIST OR CONCRETE FLOOR SLAB.
29. NO RADIOS ON THE JOB.
30. WORKERS ON BREAKS ARE NOT ALLOWED TO LOITER IN THE LOBBY, CORRIDORS OR IN FRONT OF THE BUILDING.
31. ALL WASHROOM USAGE LOCATIONS TO BE COORDINATED WITH THE RESPONSIBLE PARTY.
32. SMOKING IS NOT ALLOWED IN THE BUILDING OR WITHIN 20 FEET FROM ANY BUILDING ENTRANCE.

### DEMOLITION NOTES

1. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL POWER IN AREAS OF WORK PRIOR TO COMMENCEMENT OF DEMOLITION AND SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR DEMOLITION CONTRACTOR.
2. CONTRACTOR IS **NOT** TO DISABLE ANY EXISTING FIRE SPRINKLER SYSTEM OR SECTION OF A FIRE SPRINKLER SYSTEM.
3. CONTRACTOR IS **NOT** TO DISABLE ANY EXISTING LIFE SAFETY DEVICE WITHOUT PRIOR NOTIFICATION TO THE GOVERNING MUNICIPALITY AND THE RESPONSIBLE PARTY. THIS INCLUDES FIRE HORNS/STROBES, EXIT LIGHTS, BATTERY PACKS, AND 24 HOUR LIGHT FIXTURES.
4. THE DEMOLITION PLAN ILLUSTRATES TO THE BEST OF OUR ABILITY THE SCOPE OF THE REQUIRED DEMOLITION IN THE SPACE. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE SCOPE, NOTE ANY ITEMS REQUIRING SPECIAL ATTENTION, AND MAKE NOTES AS TO ANY SPECIFIC QUANTITIES NECESSARY TO PROPERLY PERFORM THEIR WORK.
5. IN ORDER TO COMPLETE SOME OF THE NEW WORK (INCLUDING, HOWEVER NOT LIMITED TO, ELECTRICAL, PLUMBING, HVAC) IT MAY BE NECESSARY FOR THE CONTRACTOR/ SUB-CONTRACTORS TO REMOVE, REPLACE AND REFINISH SOME OF THE FLOORING, WALLS, AND CEILINGS IN AREAS OF THE BUILDING OUTSIDE THE SPACE ILLUSTRATED IN THESE DRAWINGS. THE CONTRACTOR IS TO INCLUDE ALL RELATED COSTS WITHIN THEIR BASE BIDS.
6. CONTRACTOR SHALL MAINTAIN ALL REQUIRED MEANS OF EGRESS, EMERGENCY LIGHTING AND EXIT SIGNS DURING DEMOLITION AND CONSTRUCTION.
7. IDG/ARCHITECT TAKES NO RESPONSIBILITY RELATING TO TOXIC MATERIALS INCLUDING ASBESTOS, AND WILL TAKE NO RESPONSIBILITY TO ITS EXISTENCE OR REMOVAL. THE RESPONSIBLE PARTY SHOULD CONTRACT DIRECTLY WITH A CONSULTANT/SPECIALIST WHO IS LICENSED WITH THE PROPER GOVERNING AUTHORITIES FOR SUCH SERVICES IF REQUIRED FOR THIS PROJECT.

### CONSTRUCTION NOTES

1. ALL WORK THAT NECESSITATES THE SHUTTING DOWN OF A BUILDING SYSTEM FOR THE TIE-IN OR ALTERATION PURPOSES SHALL BE COORDINATED WITH THE RESPONSIBLE PARTY AS PER THEIR DIRECTION.
2. CONTRACTORS ARE TO UTILIZE THE REUSE OF BUILDING MATERIALS SUCH AS, BUT NOT LIMITED TO, DOORS AND FRAMES, HARDWARE, ELECTRIC AND TELEPHONE RECEPTACLES, DIFFUSERS, EXIT SIGNS, LIGHTING FIXTURES AND PLUMBING FIXTURES WHEN IN GOOD APPEARANCE AND WORKING ORDER.
3. PARTITIONS SHALL BE DIMENSIONED FROM WALL FINISH TO WALL FINISH UNLESS OTHERWISE NOTED.
4. WHERE A NEW PARTITION MEETS AN EXISTING FURRED COLUMN OR WALL, REMOVE CORNER BEAD, ALIGN, TAPE AND MUD NEW PARTITION TO EXISTING WALL.
5. CONTRACTOR IS TO FILL ALL VOIDS BETWEEN FIRE RATED WALLS AND DECK ABOVE WITH THE APPROPRIATE UL APPROVED SYSTEM WHICH MEETS CODE.
6. CONTRACTOR IS TO FILL ALL OPENINGS IN THE FIRE RATED WALL WITH THE APPROPRIATE UL APPROVED SYSTEM WHICH MEETS CODE.
7. IN AREAS OF NEW CONSTRUCTION ON THE BUILDING'S PERIMETER, CONTRACTOR IS TO PROVIDE ANY NEW AND/OR RESTORE ALL MISSING OR DAMAGED THERMAL INSULATION PRIOR TO CONSTRUCTION COMPLETION. ALL THERMAL INSULATION MUST MEET THE ORIGINAL BUILDING STANDARDS OR THE NEW IECC ENERGY CODE CRITERIA FOR THAT ELEMENT, WHICHEVER IS MORE STRINGENT.
8. THE FLAME SPREAD RATING OF ALL INTERIOR FINISHES SHALL BE LESS THAN 200.
9. NO FLOOR CORING, TRENCHING OR DRILLING IS TO COMMENCE WITHOUT PRIOR APPROVAL FROM THE RESPONSIBLE PARTY.
10. FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:
  - A. BE LOCATED WITHIN 15 FEET (4572 MM) OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET (9144 MM) MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION.
  - B. INCLUDE LETTERING NOT LESS THAN 3/8 INCH (76 MM) IN HEIGHT WITH A MINIMUM 3/8 INCH (9.5 MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING; "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS", OR OTHER WORDING.
11. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.
12. FOR ANY WALL TALLER THAN 12'-0", PROVIDE AND INSTALL ALL CLIPS, FASTENERS, BRACING, BRIDGING, ETC. PER MANUFACTURER SPECIFICATIONS AND DIRECTIONS.
13. ALL DRYWALL PARTITIONS AND CEILINGS ARE TO HAVE A "LEVEL 4 FINISH" UNLESS OTHERWISE NOTED.

A "LEVEL 4 FINISH" MEANS: ALL JOINTS AND INTERIOR ANGLES SHALL HAVE A TAPE EMBEDDED IN JOINT COMPOUND AND SHALL BE IMMEDIATELY WIPED WITH A JOINT KNIFE LEAVING A THIN COATING OF JOINT COMPOUND OVER ALL JOINTS AND INTERIOR ANGLES. TWO (2) SEPARATE COATS OF JOINT COMPOUND SHALL BE APPLIED OVER ALL FLAT JOINTS AND ONE (1) SEPARATE COAT OF JOINT COMPOUND SHALL BE APPLIED OVER INTERIOR ANGLES. FASTENER HEADS AND ACCESSORIES SHALL BE COVERED WITH THREE (3) SEPARATE COATS OF JOINT COMPOUND. THE SURFACE SHALL BE SMOOTH AND FREE OF TOOL MARKS AND RIDGES.
14. THE ARCHITECTS REVIEW OF ANY SHOP DRAWINGS OR OTHER SUBMITTALS SHALL NOT BE CONSIDERED TO BE COMPLETE IN EVERY DETAIL OR EXHAUSTIVE NOR SHALL IT RELIEVE ANY CONTRACTOR, SUBCONTRACTOR, MANUFACTURER, SUPPLIER, FABRICATOR, VENDOR, CONSULTANT OR OTHER THIRD PARTY FROM RESPONSIBILITY FOR ANY DEFICIENCY THAT MAY EXIST OR FOR ANY DEPARTURE OR DEVIATION FROM THE REQUIREMENTS OF SUCH CONSTRUCTION DOCUMENTS OR FOR THE RESPONSIBILITY TO COORDINATE THE WORK, OR PORTION OF THE WORK, OF ONE TRADE WITH ANOTHER.

### FIRE/LIFE SAFETY NOTES

1. THE INTERIOR DESIGN GROUP LTD.'S FIRE EXTINGUISHER(S) AND/OR FIRE EXTINGUISHER CABINET(S) LAYOUT IS FOR REFERENCE ONLY. CONTRACTOR IS TO INSTALL THE QUANTITY OF FIRE EXTINGUISHERS AND IN THE LOCATIONS DETERMINED BY THE GOVERNING MUNICIPALITY IN THE FIELD.
2. CONTRACTOR IS TO INSTALL FIRE EXTINGUISHER SIGNAGE AS PER THE GOVERNING MUNICIPALITY'S REQUIREMENTS.
3. CONTRACTOR IS TO COORDINATE ALL NEW AND EXISTING FIRE/LIFE SAFETY SYSTEMS WITH THE RESPONSIBLE PARTY'S APPROVED VENDOR/ CONTRACTOR AND LOCAL MUNICIPALITY.

4. ALL FIRE/LIFE SAFETY SYSTEMS ARE TO BE TESTED BY THE RESPONSIBLE PARTY AND APPROVED LIFE/SAFETY VENDOR/CONTRACTOR AND LOCAL MUNICIPALITY.
5. THE EXISTING AUTOMATIC FIRE SUPPRESSION SYSTEM SHALL REMAIN AND BE MODIFIED TO BE IN FULL CONFORMANCE WITH ALL CODES AND AMENDMENTS, IF APPLICABLE, OBSERVED BY THE GOVERNING FIRE PROTECTION DISTRICT.
6. IF ROOMS/WALLS ARE ADDED/MOVED, SPRINKLER AND ALARM CONTRACTORS ARE TO SUBMIT COMPLETE DRAWINGS AND CALCULATIONS SHOWING TYPES AND LOCATIONS OF REVISIONS OR ADDITIONS TO SYSTEM FOR MUNICIPALITY REVIEW AND APPROVAL AND WORK IS TO BE COMPLETED UNDER A SEPARATE PERMIT.
7. UPON PROJECT COMPLETION, THE FIRE SUPPRESSION CONTRACTOR AND/OR FIRE ALARM & DETECTION CONTRACTOR OF RECORD IS TO SUBMIT A CERTIFICATION LETTER STATING SUCH COMPLIANCE AND A COPY OF ONE (1) HAND AND MARSHALL LICENSE TO THE RESPONSIBLE PARTY AND THE GOVERNING FIRE PROTECTION DISTRICT.
8. THE EXISTING FIRE ALARM AND DETECTION SYSTEM IS TO REMAIN AND BE MODIFIED AS REQUIRED TO BE IN FULL CONFORMANCE WITH ALL CODES AND AMENDMENTS OBSERVED BY THE GOVERNING FIRE PROTECTION DISTRICT.
9. ALL EMERGENCY LIGHTING AND EXIT LIGHTS ARE TO BE WIRED TO THE BUILDING'S EMERGENCY GENERATOR/CIRCUIT OR HAVE A BATTERY WHICH MEETS THE GOVERNING MUNICIPALITY'S REQUIREMENTS. SEE THE REFLECTED CEILING PLAN SHEET FOR REQUIREMENTS.
10. ALL MEANS OF EGRESS LIGHTING/NIGHT LIGHTING IS TO PROVIDE AN INITIAL AVERAGE OF ONE (1) FOOT CANDLE AT THE FLOOR LEVEL FOR EGRESS OUT OF THE SUITE/SPACE.
11. IF REQUIRED, ALARM CONTRACTOR IS TO PROVIDE COMPLETE DRAWINGS AND CALCULATIONS SHOWING TYPES AND LOCATIONS OF ALL DETECTION AND ALARM SYSTEMS FOR MUNICIPALITY REVIEW AND APPROVAL AS REQUIRED TO MEET ALL CODES.
12. CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM VENDOR FOR THE LOCATIONS OF ALL REQUIRED FIRE ALARM DEVICES.
13. FINAL LOCATIONS OF REQUIRED FIRE ALARM DEVICES SHALL BE REVIEWED AND APPROVED BY THE RESPONSIBLE PARTY TO AVOID CONFLICTS WITH FURNITURE, EQUIPMENT, SIGNAGE, ETC.
14. VISUAL ALARMS: STROBES ARE TO BE INSTALLED TO MEET THE APPLICABLE IBC, IFC, BUILDING CODE, LIFE SAFETY CODES, WHICHEVER IS MOST STRINGENT.
15. CONTRACTOR IS RESPONSIBLE FOR THE SYNCHRONIZATION OF ALL EXISTING AND NEW STROBE LIGHT SEQUENCING THROUGHOUT THE SPACE.
16. AUDIBLE ALARMS: HORNS ARE TO BE INSTALLED TO MEET THE APPLICABLE IBC, IFC, BUILDING CODE, LIFE SAFETY CODES, WHICHEVER IS MOST STRINGENT.
17. LIFE SAFETY HORN AND STROBES ARE TO BE INSTALLED TO MEET THE APPLICABLE IBC, IFC, BUILDING CODE, LIFE SAFETY CODES, WHICHEVER IS MOST STRINGENT. ALL TO BE TESTED BY THE SECURITY COMPANY AND RESPONSIBLE PARTY AFTER BEING INSTALLED. AFTER OCCUPANCY, THE ALARM CONTRACTOR IS TO TEST AND CERTIFY IN WRITING THAT EACH ROOM OR SPACE MEETS THE MINIMUM AND MAXIMUM DECIBELS REQUIRED BY CODE. IF UPON TESTING, THE AUDIBLE ALARMS DO NOT REACH THE MINIMUM OR MAXIMUM REQUIRED DECIBELS, DEVICES SHALL BE ADDED OR DELETED AS REQUIRED.
18. **GENERAL CONTRACTOR IS TO COORDINATE AND OVERSEE THE INSTALLATION, TESTING AND CARRY THE COSTS OF THE COMPLETE LIFE SAFETY SYSTEM.**

### DOOR NOTES

1. FOR ANY NEW OR EXISTING DOOR WITH A CLOSER, CONTRACTOR IS TO INSPECT DOOR CLOSER TO ASSURE THE RESPONSIBLE PARTY THAT IT MEETS THE FOLLOWING UPON PROJECT COMPLETION:
  - MAXIMUM FORCE FOR PULLING OR PUSHING ALL INTERIOR DOORS SHALL BE 5 LBS OR LESS.
  - IF NEW AND EXISTING DOORS HAVE A CLOSER, DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS FIVE (5) SECONDS.

### ACCESSIBILITY NOTES

1. ALL CONSTRUCTION MUST COMPLY WITH THE 2010 ADA GUIDELINES, THE MUNICIPALITIES APPROVED 2018 IBC BUILDING CODES, AND 2018 ILLINOIS ACCESSIBILITY CODES, AND/OR A LOCAL AMENDMENT, WHICHEVER IS MOST STRINGENT. REFER TO SHEET "TP-1" FOR ALL APPLICABLE CODES.
2. THESE PLANS AND SPECIFICATIONS, TO THE BEST OF OUR KNOWLEDGE AND ABILITY, CONFORM TO THE ACCESSIBILITY STANDARDS OUTLINED IN THE 2010 ADA GUIDELINES, THE MUNICIPALITIES APPROVED 2018 IBC BUILDING CODES, THE 2018 ILLINOIS ACCESSIBILITY CODES, 2017 ICC A117.1, AND/OR A LOCAL AMENDMENT, WHICHEVER IS MOST STRINGENT. REFER TO SHEET "TP-1" FOR ALL APPLICABLE CODES.

3. ALL FIXTURES AND ACCESSORIES SHALL BE MOUNTED IN ACCORDANCE WITH THE 2010 ADA GUIDELINES, THE MUNICIPALITIES APPROVED 2018 IBC BUILDING CODES, THE 2018 ILLINOIS ACCESSIBILITY CODES, 2017 ICC A117.1, AND/OR THE LOCAL AMENDMENTS, WHICHEVER IS MOST STRINGENT. REFER TO SHEET "TP-1" FOR ALL APPLICABLE CODES.
4. WHERE THERE ARE CLEAR DIFFERENCES BETWEEN THESE REFERENCE DRAWINGS AND THE 2010 A.D.A GUIDELINES, THE 2010 ADA GUIDELINES SHALL APPLY. REFER TO SHEET "TP-1" FOR ALL APPLICABLE CODES.
5. ALL THRESHOLDS AND FLOORING TRANSITIONS MUST COMPLY WITH THE 2010 ADA GUIDELINES, THE 2018 ILLINOIS ACCESSIBILITY CODES AND 2017 ICC A117.1, WHICHEVER IS MOST STRINGENT. REFER TO SHEET "TP-1" FOR ALL APPLICABLE CODES.
6. DOOR HARDWARE SHALL BE CAPABLE OF COMPLIANCE AND A COPY OF ONE (1) HAND AND SHALL NOT REQUIRE TIGHT PINCHING, TIGHT GRASPING OR TWISTING OF THE WRIST TO OPERATE.
7. **THUMB-TURN DEADBOLTS/LOCKS ARE PROHIBITED: LEVER OR PADDLE DEADBOLT/LOCK RELEASES ARE ACCEPTABLE.** DOOR HANDLES AND DEADBOLTS MUST BE OF A SHAPE THAT IS EASY TO GRASP (NOT ROUND), DOOR HANDLES AND DEAD BOLTS MUST BE MOUNTED BETWEEN 34"-48" ABOVE FINISHED FLOOR TO CENTER OF HARDWARE.
8. **ALL DOORS AND HARDWARE ARE TO MEET 2010 ADA GUIDELINES, 2018 IBC BUILDING CODES AND 2018 ILLINOIS ACCESSIBILITY CODES WHICHEVER IS MORE STRINGENT.**
9. MINIMUM CLEAR PASSAGE WITH DOOR OPEN AT 90 DEGREE ANGLE IS 32".
10. PROJECTING ACCESSORIES MUST BE LOCATED SO THEY WILL NOT INTERFERE WITH THE USE OF GRAB BARS AND WILL KEEP THE WHEELCHAIR AREA FREE.
11. ALL PLUMBING FIXTURES MUST MEET 2010 ADA GUIDELINES, THE 2018 ILLINOIS ACCESSIBILITY CODES OR 2017 ICC A117.1, WHICHEVER IS MOST STRINGENT. REFER TO SHEET "TP-1" FOR ALL APPLICABLE CODES.
12. LIGHT, HEAT, VENTILATION, WINDOWS, DRAPERIES, FIRE ALARMS, AND ALL SIMILAR CONTROLS THAT ARE REQUIRED MUST BE BETWEEN 34" AND 48" ABOVE FINISHED FLOOR.
13. ALL FLOOR FINISHES INSTALLED ARE TO MEET TO THE 2018 ILLINOIS ACCESSIBILITY CODES WITH REGARDS TO SLIP RESISTANCE.
14. FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS ARE TO BE MOUNTED PER "MOUNTING DEVICE HEIGHTS" ILLUSTRATION ON SHEET "N-Z".

### ELECTRIC/VOICE/DATA NOTES

1. ALL ELECTRICAL FIXTURES AND SUPPLIES ARE TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
2. ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF BUILDING MATERIALS REQUIRED FOR THE INSTALLATION OF THEIR WORK.
3. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES MADE BY THE ELECTRICAL CONTRACTOR ARE TO BE SEALED USING THE PROPER UL RATED SYSTEM PRIOR TO PROJECT COMPLETION.
4. **IDG'S ELECTRIC/VOICE/DATA PLAN IS TO BE USED FOR THE RESPONSIBLE PARTY'S REQUESTED LOCATION OF RECEPTACLES AND ACCESSORIES ONLY. CONTRACTOR IS TO REFER TO THE ENGINEERS DRAWINGS FOR SPECIFICS ON CIRCUITING AND CIRCUIT REQUIREMENTS.**

### REFLECTED CEILING NOTES

1. ELECTRICAL CONTRACTOR SHALL REMOVE ALL LIGHTING FIXTURES, WIRING CONNECTORS, JUNCTION BOXES, ETC. (BACK TO SOURCE) WHICH CANNOT BE RE-USED AND ARE DEEMED UNNECESSARY BY THE ELECTRICAL CONTRACTOR.
2. ALL EXISTING, RELOCATED AND NEW LAY-IN LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING GRID BY TWO (2) HEAVY GAUGE SUSPENDED CEILING WIRES AT OPPOSITE CORNERS OF EACH FIXTURE TO THE TOP CORD OF THE BAR JOIST OR THE DECK ABOVE.
3. FINAL DETERMINATION OF QUANTITY AND LOCATION OF EMERGENCY LIGHTING AND EXIT SIGNS IS SUBJECT TO APPROVAL OF THE BUREAU OF FIRE PREVENTION OF THE MUNICIPAL AGENCY HAVING JURISDICTION.
4. IF CEILING DIFFUSERS, LIGHT FIXTURES OR OTHER ELEMENTS ON OR ABOVE THE CEILING CANNOT BE LOCATED AS SHOWN ON THE DRAWINGS, SUCH INTERFERENCE SHALL BE REPORTED IMMEDIATELY TO THE INTERIOR DESIGN GROUP LTD. FOR RELOCATION.
5. CONTRACTORS ARE TO MAKE SELF AWARE OF LOW CEILING HEIGHT CLEARANCES AND AVOID PLACEMENT OF DUCTS, CONDUITS AND PIPING THAT MAY INTERFERE WITH LIGHTING PLACEMENT SHOWN. NOTIFY THE INTERIOR DESIGN GROUP LTD. OF ANY POTENTIAL CONFLICTS BEFORE CONSTRUCTION BEGINS.
6. ALL EXIT SIGNS ARE TO HAVE A MAXIMUM OUTPUT OF 3 WATTS ON EACH SIDE.

7. ALL EXIT LIGHTS ARE TO BE NEW LED TYPE AND MEET THE CURRENT INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
8. **PRIOR TO FINAL INSPECTION, THE REGISTERED ENGINEERING DESIGN PROFESSIONAL IS TO PROVIDE EVIDENCE THAT THE MECHANICAL AND LIGHTING SYSTEMS HAVE BEEN INSTALLED TO COMPLY WITH THE CURRENT INTERNATIONAL ENERGY CONSERVATION CODE, SECTION C408: SYSTEM COMMISSIONING.**
9. ALL ITEMS TO BE INSTALLED TO OR IN A CEILING TILE ARE TO BE CENTERED IN THE 24" X 24" TILE OR THE CENTER OF A 24" X 24" OUTER SECTION OF A 24" X 48" CEILING TILE. THIS INCLUDES, HOWEVER IS NOT LIMITED TO RECESSED DOWN LIGHTS, SMOKE DETECTORS, EXIT SIGNS, SPRINKLER HEADS, SPEAKERS, ETC.
10. **IDG'S REFLECTED CEILING PLAN IS TO BE USED FOR THE RESPONSIBLE PARTY'S REQUESTED LOCATION OF LIGHT FIXTURES AND SWITCHES ONLY. CONTRACTOR IS TO REFER TO THE ENGINEERS DRAWINGS FOR SPECIFICS ON CIRCUITING AND CIRCUIT REQUIREMENTS.**
11. APPROVED, 3-DIMENSIONAL SIGNAGE IS REQUIRED AT THE CEILING FOR ANY OF THE FOLLOWING THAT ARE CONCEALED BY THE CEILING OR ACCESS PANEL:
  1. SMOKE DETECTOR
  2. DISCONNECT
  3. AIR HANDLER
  4. HEAT REHEATSIGNAGE SPECIFICATIONS SHALL COMPLY WITH ICC 2017 A117.1 SECTIONS 703.2.1 - 703.2.8 & 703.10

### FLOOR COVERING NOTES

1. ALL FLOORING IS TO BE NEW BUILDING STANDARD, UNLESS OTHERWISE NOTED.
2. ALL FLOORS FOUND TO HAVE A ROUGH CONCRETE SLAB ONCE DEMOLITION IS COMPLETED ARE TO BE LATEX PATCHED TO +/- 1/8" IN A 10'-0" RADIUS, SMOOTH AND LEVEL TO THE ADJACENT FLOORS.
3. PROVIDE AND INSTALL **ALL** FLOORING IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS, NOTIFY THE INTERIOR DESIGN GROUP LTD. OF ANY CONFLICTING INSTRUCTIONS PRIOR TO COMMENCEMENT OF WORK.
4. APPLY CONCRETE SLAB PRIMER, IF RECOMMENDED BY FLOORING MANUFACTURER, PRIOR TO APPLICATION OF ADHESIVE. APPLY IN COMPLIANCE WITH MANUFACTURER'S DIRECTIONS.
5. MAINTAIN REFERENCE MARKERS, HOLES, OR OPENINGS THAT ARE PLAINLY MARKED FOR FUTURE CUTTING. DO THIS BY REPEATING MARKINGS ON FINISH FLOORING AS MARKED ON SUBFLOOR. USE CHALK OR OTHER NON-PERMANENT MARKING DEVICE.
6. THE CARPET CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACCURACY OF THEIR MEASUREMENTS AND TOTAL YARDAGE REQUIREMENTS FOR MATERIALS TO BE FURNISHED.
7. FLOORING CONTRACTOR IS TO BROOM CLEAN OR VACUUM SURFACES TO BE COVERED, AND INSPECT SUBFLOOR, START OF FLOORING INSTALLATION INDICATES FLOORING CONTRACTOR'S ACCEPTANCE OF SUBFLOOR CONDITIONS AND FULL RESPONSIBILITY FOR COMPLETED WORK.
8. FLOOR COVERING IN CLOSETS SHALL BE THE SAME AS THAT OF THE SPACE ONTO WHICH THE CLOSET DOOR OPENS, UNLESS OTHERWISE NOTED.
9. IF CARPET TILE IS INSTALLED, CARPET CONTRACTOR IS TO CONFIRM INSTALLATION METHOD AND TYPE OF INSTALLATION WITH BUILDING MANAGEMENT, UNLESS OTHERWISE NOTED. CONFIRMED INSTALLATION METHOD SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
10. ALL CARPET SHALL BE INSTALLED BY THE DIRECT GLUE METHOD AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS UNLESS OTHERWISE NOTED.
11. PROVIDE AND INSTALL BUILDING STANDARD STRAIGHT VINYL BASE FOR ALL CARPETED AREAS UNLESS OTHERWISE NOTED.
12. PROVIDE AND INSTALL BUILDING STANDARD COVE VINYL BASE FOR ALL TILED AREAS UNLESS OTHERWISE NOTED.
13. **CARPET CONTRACTOR TO PROVIDE AND INSTALL VINYL TRANSITION STRIPS AT DOORS WHERE CARPET AND RESILIENT FLOORING MEET, UNLESS OTHERWISE NOTED IN CONSTRUCTION AND/OR FINISH PLAN.**

### WALL FINISH NOTES

1. ALL PARTITIONS ARE TO BE PAINTED UNLESS OTHERWISE NOTED.
2. ALL PARTITIONS WHEN PAINTED SHALL HAVE AN EGGSHELL LATEX FINISH UNLESS OTHERWISE NOTED.
3. PAINT FINISH FOR ALL METAL PARTS OF FRAMES, DOORS, PERIMETER ENCLOSURES, CONVECTORS, ETC. SHALL BE SEMI-GLOSS LATEX FINISH. COLOR TO MATCH ADJACENT WALLS UNLESS OTHERWISE NOTED.
4. ALL PAINTS USED IN PROJECT ARE TO BE AT **MINIMUM** A LOW VOC PAINT.
5. ALL PAINT SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS AND SPECIFICATIONS FOR THAT PARTICULAR SURFACE.

6. ALL PAINTED WALLS ARE TO RECEIVE ONE (1) COAT PRIMER TINTED TO MATCH FINISH COAT, AND TWO (2) FINISH COATS OF SPECIFIED COLOR.



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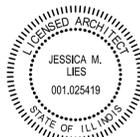
### PROJECT DESIGN TEAM:

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REVISED BY: LAUREL LANG

### MANAGEMENT:

### LINK LOGISTICS

9550 W. HIGGINS ROAD  
ROSEMONT, ILLINOIS 60018



### TENANT:

### DEMISED SUITES

1950-2000 USG DRIVE  
LIBERTYVILLE, ILLINOIS 60048

PROJ. NO. 25775-24 SUITE #2000 U.S.F. 97.696  
SUITE #1980 U.S.F. 52.390

SUBMITTED: DATE:

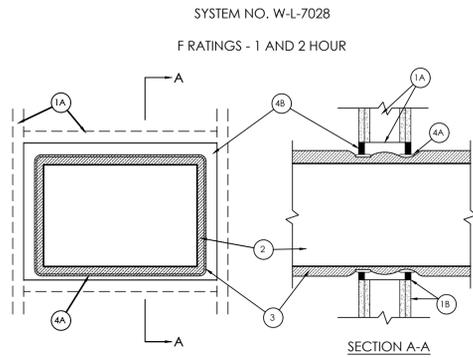
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FOR PERMIT: 06|17|2024  
FOR BID: 06|17|2024  
△ PER TENANT REVIEW: 06|11|2024  
FOR APPROVAL: 05|20|2024  
DRAWN: 05|14|2024

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### NOTES PAGE

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1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STEEL STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U400 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING SHALL CONSIST OF MIN 3-1/2 IN. (89 MM) WIDE STEEL CHANNEL STUDS SPACED MAX 24 IN. (610 MM) OC. ADDITIONAL STEEL STUDS SHALL BE USED TO COMPLETELY FRAME THE OPENING.

B. GYPSUM BOARD - 5/8 IN. (16 MM) THICK, 4 FT (1.22 M) WIDE WITH SQUARE OR TAPERED EDGES, THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U400 OR U400 SERIES DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. OPENING CUT IN GYPSUM WALLBOARD LAYERS TO BE MAX 4-3/4 IN. (121 MM) HIGHER AND WIDER THAN STEEL DUCT (ITEM 2). MAX AREA OF OPENING IS 999 SQ. IN. (645 CM<sup>2</sup>) WITH A MAX DIMENSION OF 34-3/4 IN. (888 MM). THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY F RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. STEEL DUCT - MAX 24 BY 30 IN. (610 BY 762 MM) NO. 26 GAUGE (OR HEAVIER) STEEL DUCT TO BE INSTALLED WITHIN THE FRAMED OPENING. MIN CLEARANCE BETWEEN DUCT AND EDGE OF FRAMED OPENING IN WALL IS 1-1/2 IN. (38 MM). STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY.

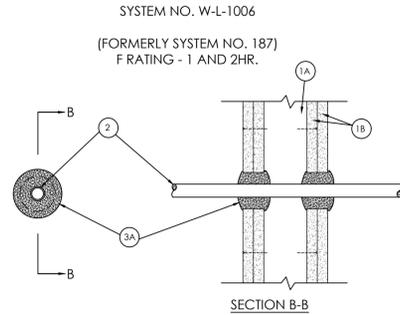
3. BATTS AND BLANKETS - NOM 1-1/2 IN. (38 MM) THICK LIGHT DENSITY (MIN 3/4 PCF OR 12 KG/M<sup>3</sup>) GLASS FIBER BLANKET INSULATION JACKETED ON THE OUTSIDE WITH A FOIL-SCRM-KRAFT FACING, LONGITUDINAL AND TRANSVERSE JOINTS SEALED WITH FOIL-SCRM-KRAFT TAPE. DURING INSTALLATION OF THE BLANKET INSULATION, BLANKET TO BE COMPRESSED APPROX 50 PERCENT IN THICKNESS SUCH THAT THE ANNUAL SPACE WITHIN THE FIRESTOP SYSTEM SHALL BE MIN 1/2 IN. (13 MM) TO MAX 2 IN. (51 MM).

4. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. FILL VOID OR CAVITY MATERIAL - WRAP STRIP - NOM 1/8 OR 3/16 IN. (3.2 OR 4.8 MM) THICK INTUMESCENT MATERIAL FACED ON BOTH SIDES WITH A PLASTIC FILM, SUPPLIED IN 2 IN. (51 MM) WIDE STRIPS OR 1/4 IN. (6 MM) THICK INTUMESCENT MATERIAL FACED ON BOTH SIDES WITH A PLASTIC FILM, SUPPLIED IN 1-1/2 IN. (38 MM) WIDE STRIPS. SINGLE LAYER OF WRAP STRIP WRAPPED AROUND TO COMPRESS THE DUCT INSULATION (ITEM 3) WITH THE ENDS BUTTED AND HELD IN PLACE BY MEANS OF TWO LAYERS OF FOIL TAPE. WRAP STRIP INSTALLED SUCH THAT 1/4 IN. (6 MM) OF THE WRAP STRIP PROTRUDES FROM THE WALL. ONE SET OF WRAP STRIPS TO BE INSTALLED ON EACH SIDE OF THE WALL.

SPECIFIED TECHNOLOGIES INC - SPECSEAL RED WRAP STRIP, SPECSEAL BLU WRAP STRIP OR SPECSEAL BLU2 WRAP STRIP

B. FILL VOID OR CAVITY MATERIAL - SEALANT - MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS. FLUSH WITH BOTH SURFACES OF THE WALL. A MIN 1/4 IN. (6 MM) BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE WRAP STRIP/INSULATED THROUGH-PENETRANT INTERFACE ON BOTH SIDES OF THE WALL. SPECIFIED TECHNOLOGIES INC - SPECSEAL 100, 101, 102, 105, 120 OR 129 SEALANT



1. WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STEEL STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. OC.

B. GYPSUM BOARD - GYPSUM BOARD SHEETS INSTALLED TO A MINIMUM TOTAL THICKNESS OF 5/8 IN. ON EACH SIDE OF WALL. WALL TO BE CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAXIMUM DIAMETER OF OPENING IS 2 INCHES.

2. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPE, CONDUIT OR TUBING MAY BE USED:

A. STEEL PIPE - NOM 1 IN. DIAM (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE. A NOM ANNULAR SPACE OF 5/16 IN. IS REQUIRED WITHIN THE FIRESTOP SYSTEM.

B. CONDUIT - NOM 1 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR RIGID STEEL CONDUIT. A NOM ANNULAR SPACE OF 5/16 IN. IS REQUIRED WITHIN THE FIRESTOP SYSTEM.

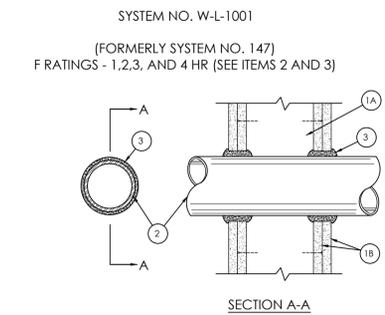
C. COPPER TUBING - NOM 1 IN. DIAM (OR SMALLER) TYPE I (OR HEAVIER) COPPER TUBING. A NOM ANNULAR SPACE OF 5/16 IN. IS REQUIRED WITHIN THE FIRESTOP SYSTEM.

D. COPPER PIPE - NOM 1 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. A NOM ANNULAR SPACE OF 5/16 IN. IS REQUIRED WITHIN THE FIRESTOP SYSTEM.

3. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. FILL VOID OR CAVITY MATERIAL - PUTTY - MIN 1-1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, ON BOTH SURFACES OF WALL. ADDITIONAL FILL MATERIAL TO BE INSTALLED SUCH THAT A MIN 1/8 IN. CROWN IS FORMED AROUND THE PENETRATING ITEM.

NELSON FIRESTOP PRODUCTS - TYPES FSP PUTTY AND FSP FIRESTOP PUTTY PADS.



1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STEEL WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.

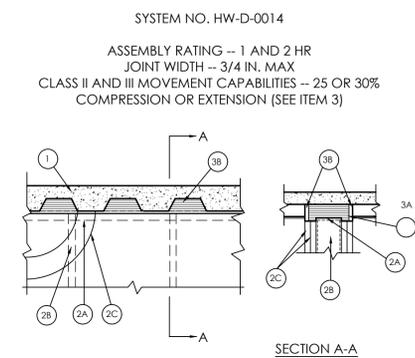
B. GYPSUM BOARD - NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT (1.22 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 24 IN. (600 MM).

2. PIPE OR CONDUIT - NOM 1 1/2 IN. DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM. 12 IN. DIAM. (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. DIAM. (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE, NOM 6 IN. DIAM. (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM. (OR SMALLER) DIESEL ELECTRICAL METALLIC TUBING, NOM 4 IN. DIAM. (OR SMALLER) TYPE I (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM. (OR SMALLER) FLEXIBLE STEEL CONDUIT.

3. FILL VOID, CAVITY MATERIAL - CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALL BOARD AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERMEATE OR PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

MAX PIPE OR CONDUIT DIAM (MM)	ANNULAR SPACE, IN	F RATING, HR	T RATING, HR
1	0 TO 3/16	1 OR 2	1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1 1/2	1 OR 2	0
4	1/4 TO 1 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

\*WHEN COPPER PIPE IS USED, T RATING IS 0 H.



1. FLOOR ASSEMBLY - THE FIRE-RATED FLUTED STEEL DECK/CONCRETE FLOOR ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL FLOOR/CEILING DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STEEL FLOOR AND FORM UNITS - MAX 3 IN. DEEP GALV STEEL FLUTED FLOOR UNITS.

B. CONCRETE - MIN 2-1/2 IN. THICK REINFORCED CONCRETE, AS MEASURED FROM THE TOP PLANE OF THE FLOOR UNITS.

2. WALL ASSEMBLY - THE 2 H FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U400 SERIES WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STEEL FLOOR AND CEILING RUNNERS - FLOOR AND CEILING RUNNERS OF WALL ASSEMBLY SHALL CONSIST OF MIN NO. 25 GAUGE GALV STEEL CHANNELS SIZE TO ACCOMMODATE STEEL STUDS (ITEM 2B). CEILING RUNNER TO BE PROVIDED WITH 2 IN. FLANGES. CEILING RUNNER SECURED TO VALLEYS OF STEEL FLOOR UNITS (ITEM 1A) WITH STEEL FASTENERS OR BY WELDS SPACED MAX 12 IN. OC.

A1. LIGHT GAUGE FRAMING\* - CLIPPED CEILING RUNNER - AS AN ALTERNATE TO THE CEILING RUNNER IN ITEM 2A, CLIPPED RUNNER TO CONSIST OF GALV STEEL CHANNEL WITH CLIPS PREFORMED IN TRACK FLANGES WHICH POSITIVELY ENGAGE THE INSIDE FLANGE OF THE STEEL STUDS (ITEM 2B). TRACK SIZE TO ACCOMMODATE STEEL STUDS (ITEM 2B). TRACK FLANGES TO BE MIN 2-1/2 IN. CLIPPED CEILING RUNNER INSTALLED PERPENDICULAR TO DIRECTION OF FLUTED STEEL FLOOR UNITS AND SECURED TO VALLEYS WITH STEEL FASTENERS SPACED MAX 12 IN. OC. TOTAL STEEL SOLUTIONS LLC - SHAP TRAK

B. STUDS - STEEL STUDS TO BE MIN 2-1/2 IN. WIDE. STUDS CUT 5/8 IN. LESS IN LENGTH THAN ASSEMBLY HEIGHT WITH BOTTOM NESTING IN AND RESTING ON FLOOR RUNNER AND WITH TOP NESTING IN CEILING RUNNER WITHOUT ATTACHMENT. STUD SPACING NOT TO EXCEED 24 IN. OC.

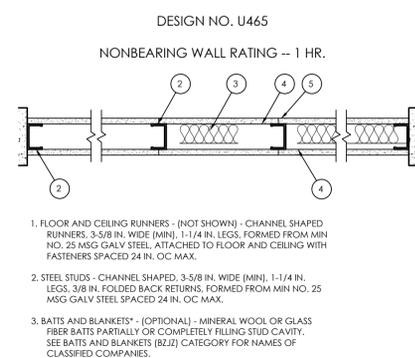
C. GYPSUM BOARD - GYPSUM BOARD SHEETS INSTALLED TO A MIN TOTAL THICKNESS OF 5/8 IN. ON EACH SIDE OF WALL. WALL TO BE CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY, EXCEPT THAT A NOM 5/8 TO 3/4 IN. GAP SHALL BE MAINTAINED BETWEEN THE TOP OF THE GYPSUM BOARD AND THE BOTTOM OF THE STEEL FLOOR UNITS AND THE TOP ROW OF SCREWS SHALL BE INSTALLED INTO THE STUDS 4 IN. BELOW THE VALLEYS OF THE STEEL FLOOR UNITS.

3. JOINT SYSTEM - MAX SEPARATION BETWEEN BOTTOM OF FLOOR AND TOP OF WALL AT TIME OF INSTALLATION OF JOINT SYSTEM IS 3/4 IN. THE JOINT SYSTEM IS DESIGNED TO ACCOMMODATE A MAX 30 PERCENT COMPRESSION OR EXTENSION WHEN IT IS INSTALLED TO A MAX WIDTH OF 5/8 IN. OR 25 PERCENT COMPRESSION OR EXTENSION WHEN IT IS INSTALLED TO A MAX WIDTH OF 3/4 IN. THE JOINT SYSTEM CONSISTS OF A PACKING MATERIAL AND A FILL MATERIAL IN THE FLUTES OF THE STEEL FLOOR UNITS AND BETWEEN THE TOP OF THE WALLBOARD AND BOTTOM OF THE STEEL FLOOR UNITS, AS FOLLOWS:

A. PACKING MATERIAL - MIN 4 1/2 IN. THICKNESS OF MIN 0.5 PCF DENSITY FIBERGLASS INSULATION FIRMLY PACKED INTO FLUTES OF STEEL FLOOR UNITS AND BETWEEN TOP OF WALL AND BOTTOM OF THE STEEL FLOOR UNITS, AND RECESSED FROM EACH SURFACE OF WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

B. FILL VOID OR CAVITY MATERIAL - MIN 1/4 IN. THICKNESS OF FILL MATERIAL INSTALLED ON EACH SIDE OF THE WALL AND THE BOTTOM OF THE STEEL FLOOR UNITS. FLUSH WITH EACH SURFACE OF WALLBOARD.

APPROVED U/L NOTE:  
METAL ROOF DECK CAN BE SUBSTITUTED FOR CONCRETE FLOOR WITH METAL PANL AND CAN BE USED AS A RATED ASSEMBLY HW-D-0014.



1. FLOOR AND CEILING RUNNERS - (NOT SHOWN) - CHANNEL SHAPED RUNNERS, 3-5/8 IN. WIDE (MIN), 1-1/4 IN. LEGS, FORMED FROM MIN NO. 25 MSG GALV STEEL, ATTACHED TO FLOOR AND CEILING WITH FASTENERS SPACED 24 IN. OC. MAX.

2. STEEL STUDS - CHANNEL SHAPED, 3-5/8 IN. WIDE (MIN), 1-1/4 IN. LEGS, 3/8 IN. FOLDED BACK RETURNS, FORMED FROM MIN NO. 25 MSG GALV STEEL SPACED 24 IN. OC. MAX.

3. BATTS AND BLANKETS\* - (OPTIONAL) - MINERAL WOOL OR GLASS FIBER BATTS PARTIALLY OR COMPLETELY FILLING STUD CAVITY. SEE BATTS AND BLANKETS (B2J2) CATEGORY FOR NAMES OF CLASSIFIED COMPANIES.

3A. FIBER, SPRAYED\* - AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 3) - SPRAY APPLIED CELLULOSE MATERIAL. THE FIBER IS APPLIED WITH WATER TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. NOMINAL DRY DENSITY OF 3.0 LB/FT<sup>3</sup>. ALTERNATE APPLICATION METHOD: THE FIBER IS APPLIED WITH U.S. GREENFIBER LLC TYPE AD100 HOT MELT ADHESIVE AT A NOMINAL RATIO OF ONE PART ADHESIVE TO 4.6 PARTS FIBER TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. NOMINAL DRY DENSITY OF 3.5 LB/FT<sup>3</sup>.

U.S. GREENFIBER LLC - COCOON<sup>SM</sup> STABILIZED OR COCOON-FRM (FIRE RATED MATERIAL)

3B. FIBER, SPRAYED\* - AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 3) AND ITEM 3A, CELLULOSE INSULATION. THE FIBER IS APPLIED WITH WATER TO INTERIOR SURFACES IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. NOMINAL DRY DENSITY OF 3.0 LB/FT<sup>3</sup>. MINIMUM DRY DENSITY OF 4.3 POUNDS PER CUBIC FT. NU-WOOL CO INC - CELLULOSE INSULATION

4. GYPSUM BOARD - 5/8 IN. THICK, 4 FT WIDE, ATTACHED TO STEEL STUDS AND FLOOR AND CEILING TRACK WITH 1 IN. LONG, TYPE 5 STEEL SCREWS SPACED 8 IN. OC. ALONG EDGES OF BOARD AND 12 IN. OC. IN THE FIELD OF THE BOARD. JOINTS ORIENTED VERTICALLY AND STAGGERED ON OPPOSITE SIDES OF THE ASSEMBLY. WHEN ATTACHED TO ITEM 4 RESILIENT CHANNELS (OR 4A (FURRING CHANNELS)), WALLBOARD IS SECURED TO FURRING CHANNELS WITH 1 IN. LONG, TYPE 5 STEEL SCREWS SPACED 12 IN. OC.

- AMERICAN GYPSUM CO - TYPES AG-C, AGX-1
- BEIJING NEW BUILDING MATERIALS CO LTD - TYPE DBX-1
- BFB AMERICA INC - TYPES 1, EGRG, PROROC TYPE X, PROROC TYPE C
- BFB CANADA INC - PROROC TYPE C, PROROC TYPE X OR PROROC TYPE ABUSE-RESISTANT
- CANADIAN GYPSUM COMPANY - TYPES AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC OR WRX
- G\*P GYPSUM CORP. SUB OF GEORGIA-PACIFIC CORP. - TYPES 5, 9, C, DAP, DD, DA, DGG, DS, GPFS6
- LAFARGE NORTH AMERICA INC - TYPES LGFC2, LGFC2A, LGFC4, LGFC4A, LGFC4B, LGFC4C
- NATIONAL GYPSUM CO. - TYPES FSX, FSX-C, FSX-G, FSX-W, FSX-G, FSX-FSW, FSX-3, FSX-5
- PACIFIC BUILDING PRODUCTS CORP. - C, DBA
- PABCO GYPSUM - TYPE PG-C OR PG-F
- PANEL REV 3 A - TYPE FRX
- SMAH GYPSUM INDUSTRIES (SARABURJI) CO LTD - TYPE D-1 STANDARD GYPSUM LLC - TYPES FRX-6, VPBX-6, FRWX-6, SHCX-6, FRX-6 EXTERIOR GYPSUM SOFFIT BOARD, SG-C
- TEMPLE INLAND FOREST PRODUCTS CORP. - TYPE X, VENEER PLASTER BASE - TYPE X, WATER RATED - TYPE X
- SHEATHING - TYPE X, SOFFIT - TYPE X, IG-C
- UNITED STATES GYPSUM CO. - TYPE AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC OR WRX
- USG MEXICO S A DE C V - TYPE AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC OR WRX

4A. GYPSUM BOARD\* - (AS ALTERNATE TO ITEM 4) - NOM 5/8 IN. THICK GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES. AP

**SHEET NOTES**

- CONTRACTOR IS TO REFER TO ENGINEERING DRAWINGS, BY OTHERS, FOR ADDITIONAL INFORMATION.
- IN SCOPE OF WORK, ON EXISTING WALLS TO REMAIN, ALL EXISTING WALL BASE IS TO BE CAREFULLY REMOVED SO THE WALLS CAN BE REPAIRED TO CREATE A SMOOTH SURFACE READY TO RECEIVE NEW FINISHES.
- IN SCOPE OF WORK, EXISTING FLOORING IS TO BE REMOVED, UNLESS NOTED OTHERWISE. REMOVE EXCESSIVE ADHESIVE AND/OR NAIL STRIPS TO LEAVE FLOOR WITH A SMOOTH LEVEL FINISH.
- UNLESS NOTED OTHERWISE, ALL SIDELIGHTS, DOORS, FRAMES AND HARDWARE REMOVED AND NOT RELOCATED ARE TO BE PLACED IN BUILDING STOCK, VERIFY STORAGE LOCATION OR DISPOSAL WITH BUILDING MANAGEMENT.
- CONTRACTOR IS **NOT** TO DISABLE ANY EXISTING FIRE SPRINKLER SYSTEM.
- CONTRACTOR IS **NOT** TO DISABLE ANY EXISTING LIFE SAFETY DEVICE WITHOUT PRIOR NOTIFICATION TO THE VILLAGE/CITY. THIS INCLUDES FIRE HORNS AND STROBES, BATTERY PACKS, AND 24 HOUR LIGHT FIXTURES.
- PROVIDE FIRE EXTINGUISHERS WITHIN 75 FEET TRAVEL DISTANCE FROM ANY POINT IN THE SPACE DURING DEMOLITION AND AFTER OCCUPANCY WITH A MINIMUM RATING OF 3A40BC.
- ALL FINISHES TO BE BUILDING STANDARD, SELECTED BY THE CLIENT, UNLESS OTHERWISE NOTED.
- WHERE DEMOLITION OCCURRED, CONTRACTOR IS TO PATCH AND REPAIR REMAINING WALLS AS NECESSARY TO A SMOOTH SURFACE, READY FOR NEW FINISHES.
- CONTRACTOR IS TO REPAIR ANY PENETRATIONS THROUGH RATED WALLS, FLOOR AND/OR DECK WITH CONSTRUCTION TYPES AND MATERIALS WHICH MATCH EXISTING.
- CONTRACTOR IS TO PROVIDE TACTILE EXIT SIGNS ADJACENT TO THE EXIT DISCHARGE DOORS. REFER TO SHEET "N-2" FOR MORE INFORMATION.

**SHEET NOTES**

- ALL EXISTING, RELOCATED AND NEW DOORS USED IN CONJUNCTION WITH EXITS ARE TO BE READILY OPENED FROM THE EGRESS SIDE WITHOUT A KEY, UNDOE FORCE OR SPECIAL KNOWLEDGE ALLOWING FREE PASSAGE OUT OF THE SUITE AT ALL TIMES.
- CONTRACTOR SHALL MAINTAIN EMERGENCY LIGHTING AND EXIT SIGNS IN WORK AREAS AND THE MEANS OF EGRESS DURING DEMOLITION AND CONSTRUCTION.
- ALL EXIT LIGHTS ARE TO BE NEW LED TYPE AND MEET THE CURRENT INTERNATIONAL ENERGY CONSERVATION CODE (IECC). CONTRACTOR SHALL VERIFY IF EXISTING EXIT SIGNS, SHOWN TO BE RE-USED, ARE LED TYPE, IF NOT, CONTRACTOR SHALL REPLACE, AS REQUIRED.
- UPON COMPLETION OF SPRINKLER WORK, CONTRACTOR IS TO PROVIDE CLIENT WITH SPRINKLER AS BUILT DOCUMENTS.
- EMERGENCY, EXIT AND EGRESS LIGHTING IS FOR CONCEPTUAL LAYOUT ONLY. EXACT LOCATION OF EXISTING LIGHTING AND DEVICES MAY VARY. CONTRACTOR IS TO VERIFY THAT THERE IS ADEQUATE EMERGENCY LIGHTING AND SAFETY DEVICES THROUGHOUT ENTIRE SUITE.

**KEYNOTES**

- CONTRACTOR SHALL CUT AN OPENING TO MATCH ADJACENT OPENINGS IN THE CENTER OF THE EXISTING PRE-CAST CONCRETE WALL PANEL, FOR A NEW OVERHEAD DOOR. REFER TO STRUCTURAL DRAWINGS BY OTHERS FOR FURTHER INFORMATION ON ANY ADDITIONAL SUPPORT THAT MAY BE REQUIRED. REMOVE ANY EXISTING CONDUIT, J-BOXES, RECEPTACLES, AS REQUIRED, TO ACCOMMODATE NEW OPENINGS. RE-ROUTE CONDUIT AROUND NEW OPENING(S) AS NECESSARY.
- CONTRACTOR IS TO CUT OUT EXISTING CONCRETE SLAB, AS REQUIRED TO ACCOMMODATE NEW DOCK LEVELER.
- CONTRACTOR IS TO REMOVE JUNCTION BOXES/OUTLET, CONDUIT AND WIRING BACK TO SOURCE.
- CONTRACTOR IS TO CAREFULLY REMOVE EXISTING CEILING FAN AND STORE ON SITE FOR POSSIBLE FUTURE RELOCATION.
- CONTRACTOR IS TO REMOVE A PORTION OF EXISTING GUARDRAIL AND REWORK AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION.
- CONTRACTOR IS TO REWORK EXISTING FIRE SPRINKLER SHUT OFF AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION. REFER TO ENGINEERING DRAWINGS BY OTHERS FOR FURTHER INFORMATION.

**KEYNOTES**

- CONTRACTOR IS TO REWORK EXISTING RTU BOX AS REQUIRED TO ACCOMMODATE NEW WALL CONSTRUCTION. REFER TO ENGINEERING DRAWINGS BY OTHERS FOR FURTHER INFORMATION.
- CONTRACTOR IS TO PROVIDE NEW CONCRETE PIT AND SLAB IN-FILL, AS REQUIRED, FOR NEW DOCK LEVELER. SEE STRUCTURAL DRAWINGS BY OTHERS FOR FURTHER INFORMATION. CONTRACTOR IS TO PROVIDE A NEW DOCK LEVELER, TO MATCH EXISTING, COORDINATE EXACT SIZE AND SPECIFICATIONS WITH CLIENT PRIOR TO CONSTRUCTION.
- CONTRACTOR IS TO PROVIDE A NEW OVERHEAD DOOR AND ALL ASSOCIATED EQUIPMENT, OPENERS, CONTROLS, ETC. TO MATCH EXISTING. PROVIDE BOLLARDS ON INSIDE AND DOCK BUMPER/SEALS AND VEHICLE RESTRAINTS ON THE OUTSIDE, COORDINATE EXACT SIZE AND SPECIFICATIONS WITH CLIENT PRIOR TO CONSTRUCTION.
- CONTRACTOR REWORK/EXTEND WALL CONSTRUCTION AS REQUIRED TO BE A FULL HEIGHT 1 HOUR RATED DEMISING WALL FROM FINISHED FLOOR TO DECK/STRUCTURE ABOVE.
- CONTRACTOR IS TO DRYWALL, TAPE, SAND, AND PRIME REMAINING VACANT SIDE OF THE NEW DEMISING PARTITION.
- CONTRACTOR IS TO SEPARATE EXISTING ELECTRICAL SERVICE/METER AND PROVIDE NEW FOR SUITE #2000 AND REWORK EXISTING FOR REMAINDER OF SPACE. REFER TO ENGINEERING DRAWINGS BY OTHERS FOR FURTHER INFORMATION.
- PRICE AS ALTERNATE:** CONTRACTOR IS TO REWORK EXISTING ELECTRICAL SERVICE/METER FOR REMAINDER SUITES #1980 & #1950, AS REQUIRED. REFER TO ENGINEERING DRAWINGS BY OTHERS FOR FURTHER INFORMATION.
- IN WAREHOUSE AREA, ALL LIGHTING IS TO REMAIN. CONNECT EXISTING LIGHT FIXTURES TO NEW SERVICE/METER SERVING THE SUITE.
- CONTRACTOR IS TO CAREFULLY REMOVE EXISTING GUARDRAIL AND PATCH CONCRETE SLAB, AS REQUIRED, TO PROVIDE A SMOOTH LEVEL SURFACE. RELOCATE GUARDRAIL TO PROTECT RELOCATED ELECTRICAL EQUIPMENT. REFER TO ELECTRICAL ENGINEERING DRAWINGS ENLARGED PLAN 5 ON SHEET E-1.1, BY OTHERS, FOR EXACT LOCATION. PROVIDE ADEQUATE CLEARANCES IN FRONT OF EQUIPMENT FOR ACCESS AND MAINTENANCE PER CODE.
- CONTRACTOR IS TO REPLACE EXISTING LIGHT FIXTURES WITH NEW LED LIGHT FIXTURES IN SAME LOCATIONS AS EXISTING. RETROFIT EXISTING SWITCHES TO BE OCCUPANCY SENSING. COORDINATE SPECIFICATION WITH CLIENT PRIOR TO INSTALLATION. NO LIGHTING LAYOUT CHANGE REQUIRED.
- CONTRACTOR IS TO REMOVE AND DISPOSE OF HVAC DUCTWORK, SERVING AREA TO BE DEMOLISHED, BACK TO SOURCE.
- CONTRACTOR IS TO PROVIDE A NEW 1 HOUR RATED WALL UP TO DECK, WHERE ILLUSTRATED ON PLAN, REMOVE ANY ELECTRICAL, REWORK ANY FIRE SPRINKLER SHUT OFF AND REMOVE ANY CEILING FANS TO ACCOMMODATE NEW WALL CONSTRUCTION.

**KEYNOTES**

- PRICE AS ALTERNATE:** CONTRACTOR IS TO PROVIDE A NEW 1 HOUR RATED WALL UP TO DECK, WHERE ILLUSTRATED ON PLAN, REMOVE ANY ELECTRICAL, REWORK ANY FIRE SPRINKLER SHUT OFF AND REMOVE ANY CEILING FANS TO ACCOMMODATE NEW WALL CONSTRUCTION.
- CONTRACTOR IS TO PROVIDE NEW 3'-0" WIDE BY 7'-0" HIGH DOOR ASSEMBLY. NEW DOOR ASSEMBLY IS TO BE A METAL, INSULATED MAN DOOR WITH ADA COMPLIANT CLOSER HARDWARE AND CRASH BAR, AS REQUIRED BY CODE. PROVIDE THRESHOLD AND WEATHER STRIPPING TO MATCH ADJACENT EXTERIOR DOOR ASSEMBLIES. DOOR ASSEMBLY SHALL BE LOCATED AND SUPPORTED PER ANALYSIS LETTER, PROVIDED BY THE STRUCTURAL ENGINEER. COORDINATE FINAL LOCATION OF DOOR WITH RELOCATED ELECTRICAL EQUIPMENT TO ENSURE THEY DO NOT CONFLICT.
- CONTRACTOR TO PROVIDE NEW STEEL STAIR/LANDING AND HANDRAILS TO MATCH EXISTING. COORDINATE STAIR DETAIL, ATTACHMENT AND FOUNDATION WITH MANUFACTURER'S INSTALLATION SPECIFICATIONS.
- CONTRACTOR IS TO INSTALL A NEW CONCRETE FILLED STEEL BOLLARD TO MATCH EXISTING. BOLLARDS ARE TO BE PAINTED 'SAFETY YELLOW'.
- CONTRACTOR IS TO PATCH/REPAIR ASPHALT PAVING, AS REQUIRED, AFTER THE INSTALLATION OF THE NEW STAIR AND BOLLARD.

**INTERIOR FRAMING LIMITING HEIGHT TABLE**

STUD SIZE	25 GAUGE (18 MIL)	20 GAUGE (33 MIL)	18 GAUGE (43 MIL)	16 GAUGE (54 MIL)
2 1/2"	11'-3"	13'-3"	14'-4"	15'-5"
3 3/8"	14'-4"	17'-7"	19'-1"	20'-6"
6"	19'-9"	26'-0"	28'-4"	30'-5"
8"	-	32'-2"	35'-4"	38'-1"

DEFLECTION LIMIT: L / 240  
 STUD SPACING: 16" O.C.  
 FLANGE SIZE: 1 1/2"  
 DESIGN LIMIT: 5 PSF

**DEMOLITION LEGEND**

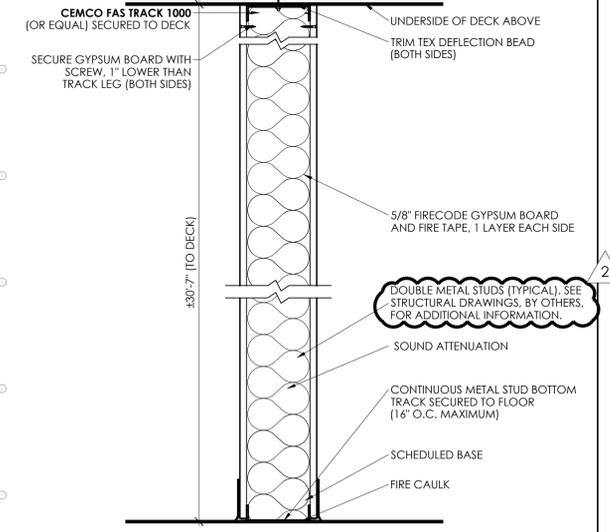
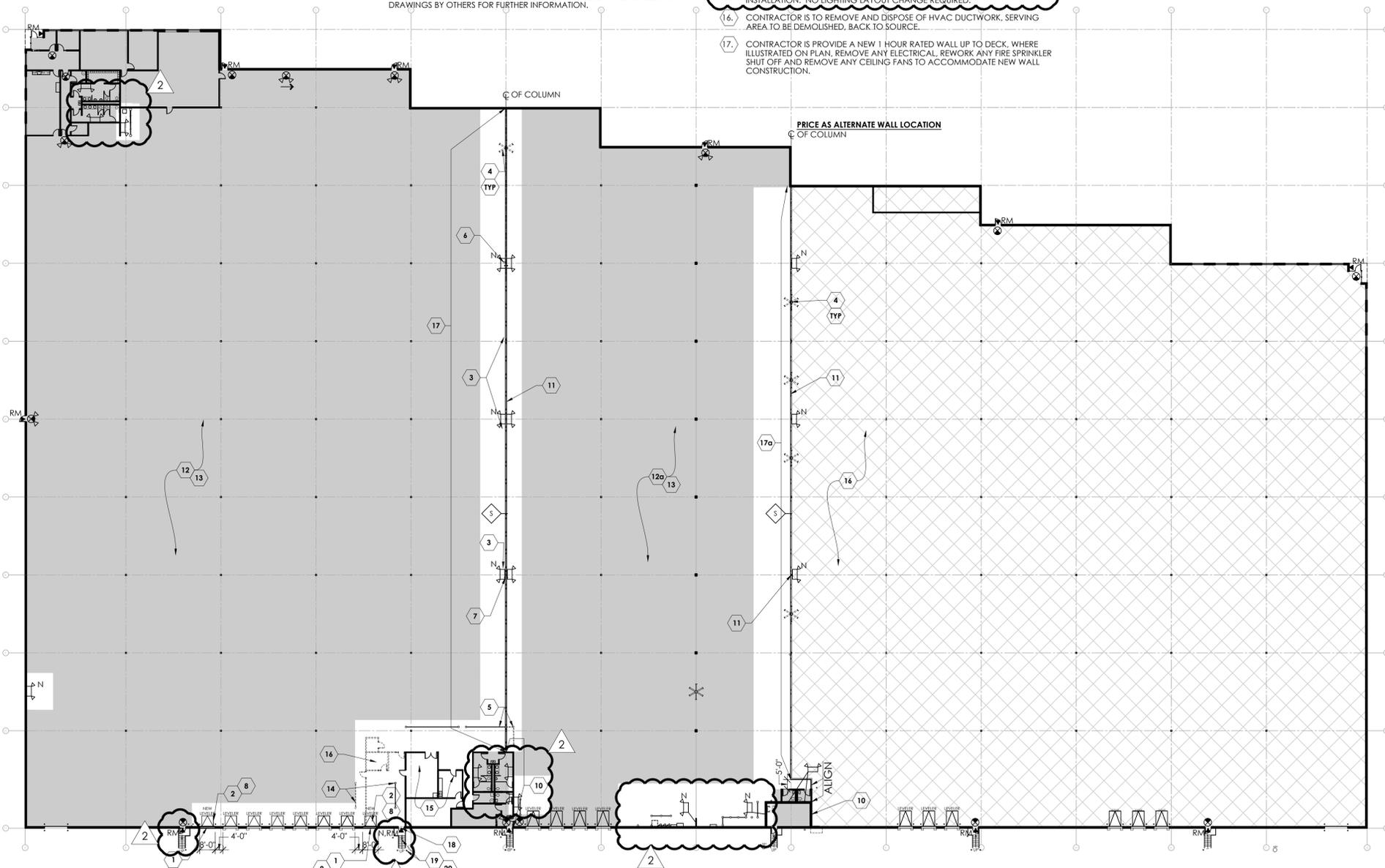
- BUILDING CORE OR EXISTING PARTITION TO REMAIN
- EXISTING INTERIOR PARTITION TO BE DEMOLISHED
- EXISTING ITEM TO BE REMOVED

**WALL LEGEND**

- INTERIOR PARTITION TO REMAIN
- INSULATED PARTITION, FLOOR TO DECK ABOVE (RATED)
- WALL TAG
- INSULATED INTERIOR PARTITION FLOOR TO DECK ABOVE (1 HOUR FIRE RATED)

**REFLECTED CEILING LEGEND**

- EXIT SIGN/SINGLE FACED LED W/ BATTERY PACK MINIMUM ILLUMINATION LIFE PER CODE
- EXIT SIGN/SINGLE FACED LED W/ BATTERY PACK AND 2 HEADS MINIMUM ILLUMINATION LIFE PER CODE
- EXIT SIGN/SINGLE FACED LED W/ DIRECTION ARROW, BATTERY PACK AND 2 HEADS MINIMUM ILLUMINATION LIFE PER CODE
- EMERGENCY BATTERY PACK W/ 2 HEADS MINIMUM ILLUMINATION LIFE PER CODE
- EXTERIOR REMOTE EMERGENCY HEAD, MINIMUM ILLUMINATION LIFE PER CODE



**SECTION - 1 HOUR DEMISING PARTITION**  
 DESIGN NO. U465 SCALE: 1 1/2" = 1'-0"

**COMCHECK EXEMPTION NOTE:**  
 ALL LIGHT FIXTURES WITHIN THE SCOPE AREA ARE EITHER EXISTING OR RELOCATED. ONLY BULBS AND BALLASTS ARE BEING REPLACED WHERE NEEDED AND SUCH ALTERATIONS DO NOT INCREASE THE INSTALLED WATTAGE FOR THE SUITE. THEREFORE, NO COMCHECK IS REQUIRED.

**NOTE:**  
 ALL AREAS ILLUSTRATED WITH THIS HATCH ARE PART OF THE REMAINING AVAILABLE SPACE AND ARE NOT INCLUDED IN THIS CONTRACT.

**NOTE:**  
 ALL AREAS ILLUSTRATED WITH THIS HATCH ARE NOT INCLUDED IN THIS CONTRACT.

**DEMOLITION, CONSTRUCTION, ELECTRIC AND REFLECTED CEILING PLAN**

SCALE: 1/32" = 1'-0"

**NOTE:**  
 ALL ELECTRIC/VOICE/DATA IS EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.

**NOTE:**  
 ALL LIGHT FIXTURES AND SWITCHES ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.



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**LINK LOGISTICS**  
 9550 W. HIGGINS ROAD  
 ROSEMONT, ILLINOIS 60018



**TENANT:**  
**DEMISED SUITES**  
 1950-2000 USG DRIVE  
 LIBERTYVILLE, ILLINOIS 60048

SUITE #2000 U.S.F. 97.696  
 PROJ. NO. 25775-24 SUITE #1980 U.S.F. 52.390  
 SUBMITTED: DATE:  
 PER PERMIT COMMENTS: 08 | 01 | 2024  
 FOR PERMIT: 06 | 17 | 2024  
 FOR BID: 06 | 11 | 2024  
 PER TENANT REVIEW: 06 | 11 | 2024  
 FOR APPROVAL: 05 | 20 | 2024  
 DRAWN: 05 | 14 | 2024  
 SHEET TITLE:  
**DEMOLITION, CONSTRUCTION, ELECTRIC AND REFLECTED CEILING PLAN AND WALLS SECTION**  
 SHEET NO.: A-1





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1950-2000 USG DRIVE  
LIBERTYVILLE, ILLINOIS 60048

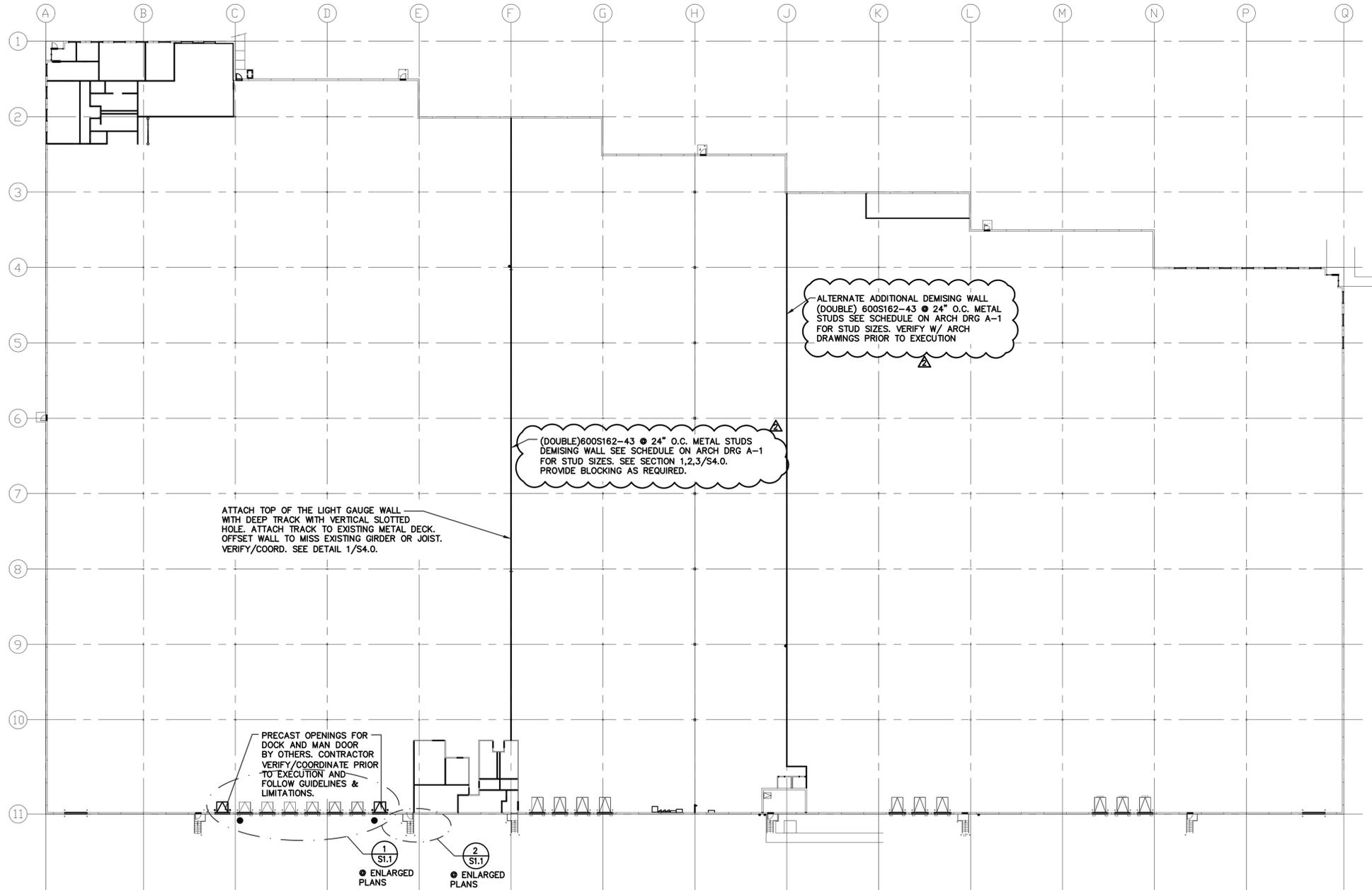
SUITE #2000 U.S.F. 97.696  
PROJ. NO. 25775-24 SUITE #1980 U.S.F. 52.390

SUBMITTED: DATE:

Δ PER PERMIT COMMENTS: 08 | 01 | 2024  
FOR PERMIT: 06 | 17 | 2024  
FOR BID: 06 | 17 | 2024  
Δ PER TENANT REVIEW: 06 | 11 | 2024  
FOR APPROVAL: 05 | 20 | 2024  
DRAWN: 05 | 14 | 2024

SHEET TITLE:  
FOUNDATION PLAN

SHEET NO.:  
S1.0



ATTACH TOP OF THE LIGHT GAUGE WALL WITH DEEP TRACK WITH VERTICAL SLOTTED HOLE. ATTACH TRACK TO EXISTING METAL DECK. OFFSET WALL TO MISS EXISTING GIRDER OR JOIST. VERIFY/COORD. SEE DETAIL 1/S4.0.

(DOUBLE) 600S162-43 @ 24" O.C. METAL STUDS DEMISING WALL SEE SCHEDULE ON ARCH DRG A-1 FOR STUD SIZES. SEE SECTION 1,2,3/S4.0. PROVIDE BLOCKING AS REQUIRED.

ALTERNATE ADDITIONAL DEMISING WALL (DOUBLE) 600S162-43 @ 24" O.C. METAL STUDS SEE SCHEDULE ON ARCH DRG A-1 FOR STUD SIZES. VERIFY W/ ARCH DRAWINGS PRIOR TO EXECUTION

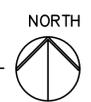
PRECAST OPENINGS FOR DOCK AND MAN DOOR BY OTHERS. CONTRACTOR VERIFY/COORDINATE PRIOR TO EXECUTION AND FOLLOW GUIDELINES & LIMITATIONS.

1 S1.1  
● ENLARGED PLANS

2 S1.1  
● ENLARGED PLANS

FOUNDATION PLAN

SCALE: 1/32" = 1'-0"



- CONTRACTOR FIELD VERIFY PRECAST PANEL AND DIMENSIONS PRIOR TO EXECUTION.



Date: 08-02-24  
License Expires: 11-30-24



THE INTERIOR DESIGN GROUP LTD.

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TENANT:

DEMISED SUITES

1950-2000 USG DRIVE  
LIBERTYVILLE, ILLINOIS 60048

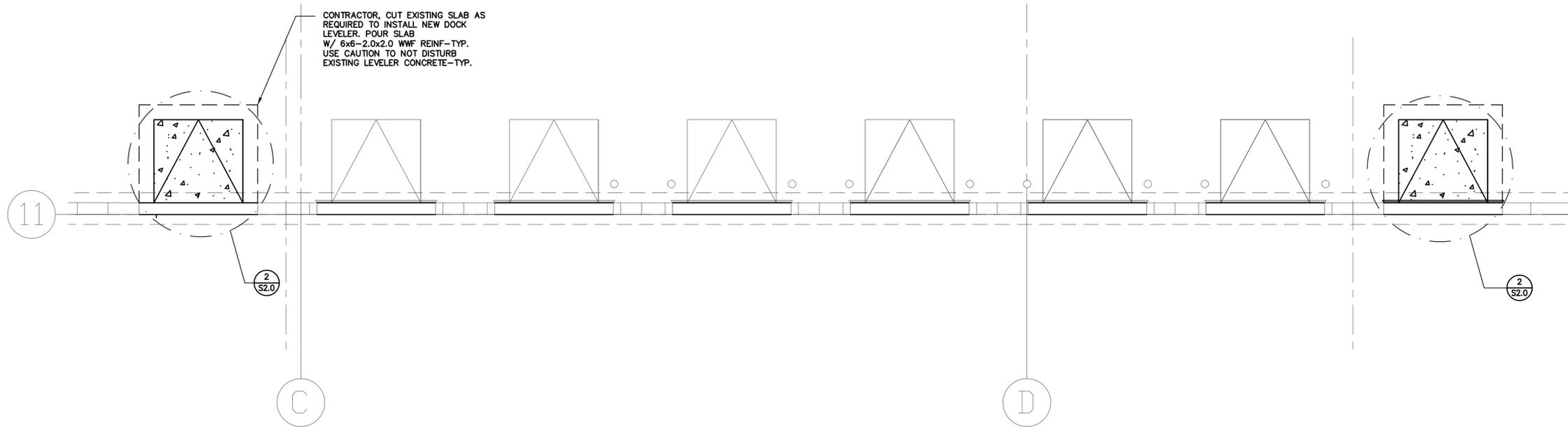
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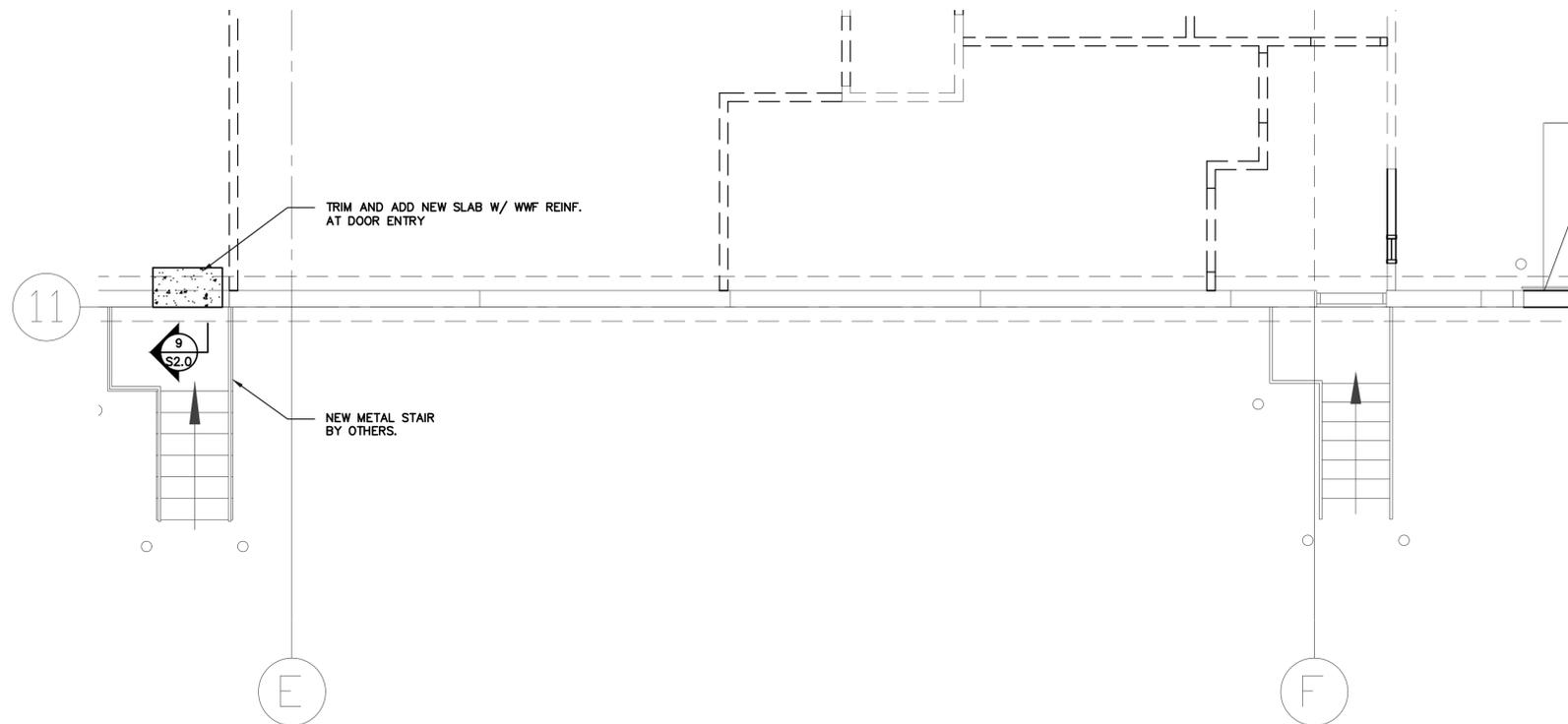
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SHEET TITLE:  
ENLARGED PLAN AT DOCKS

SHEET NO.:  
S1.1



1 ENLARGED FOUNDATION PLAN  
@ DOCK LEVELER  
SCALE: 1/4" = 1'-0" NORTH



2 ENLARGED FOUNDATION PLAN  
@ MAN DOOR  
SCALE: 1/4" = 1'-0" NORTH



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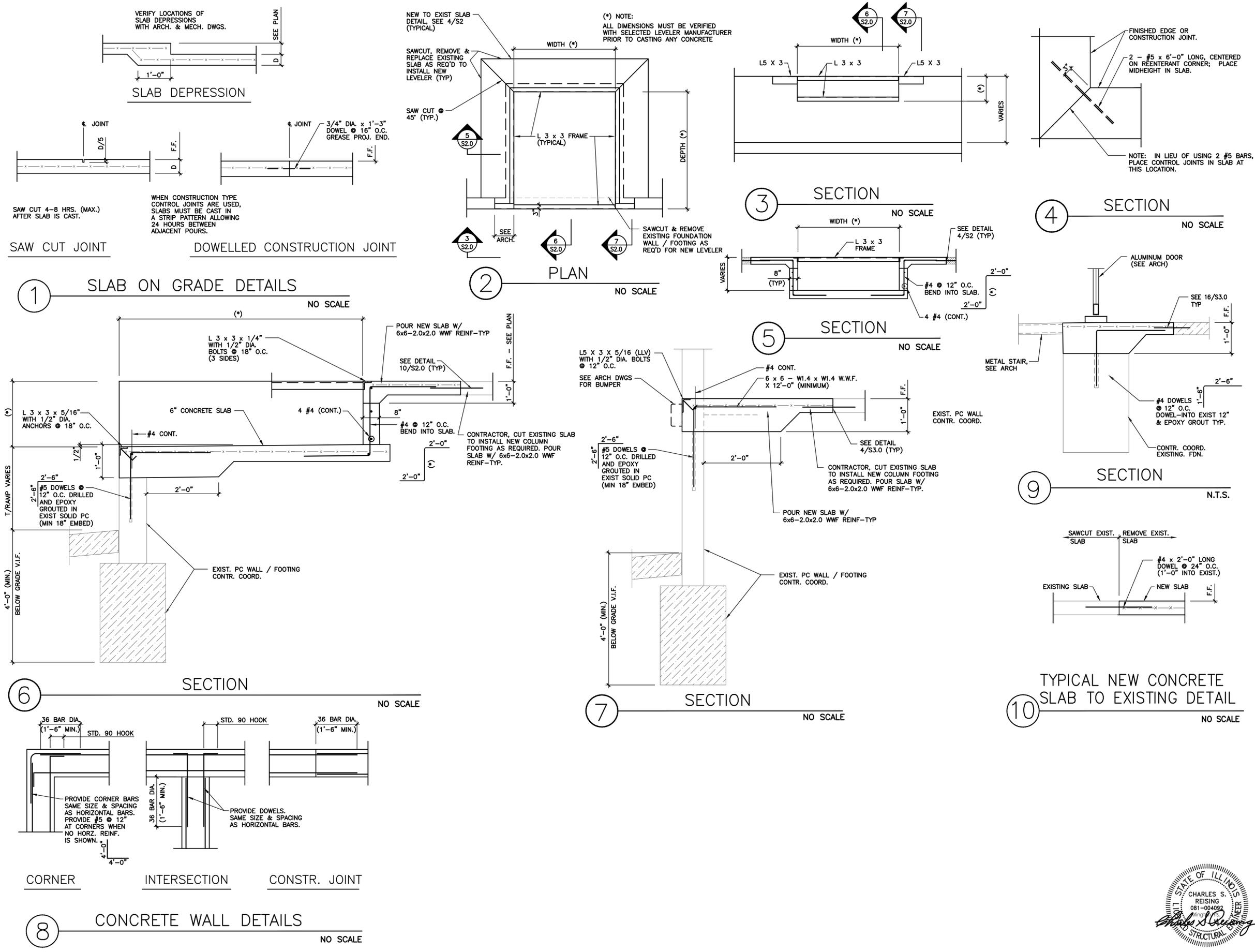
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SHEET TITLE:  
 FOUNDATION DETAILS

SHEET NO.: S2.0



Date: 08-02-24  
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**GENERAL STRUCTURAL NOTES**

**DESIGN AND LOADING:**

STRUCTURAL DESIGN OF THIS BUILDING IS IN ACCORDANCE WITH THE INTERNATIONAL EXISTING BUILDING CODE, 2018 EDITION.

**LIVE LOADS USED IN DESIGN ARE AS FOLLOWS:**

GROUND/ROOF DESIGN SNOW	-	30 PSF
MIN ROOF LIVE LOAD	-	30 PSF
WIND	-	107 MPH (EXPOSURE C)

**FOUNDATIONS:**

ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED FILL HAVING AN ASSUMED MINIMUM ALLOWABLE BEARING CAPACITY OF 3,000 P.S.F. ASSUMED. MUST BE VERIFIED IN THE FIELD BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO CASTING ANY CONCRETE FOR THE FOUNDATIONS. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY SHOULD ACTUAL FIELD CONDITIONS VARY FROM THE ASSUMED VALUES.

ALL FOOTING ELEVATIONS SHOWN ON THE DRAWINGS PROVIDE MINIMUM DEPTHS FOR FROST PROTECTION. ANY LOCALIZED SOFT SOIL AND / OR FILL ZONES ENCOUNTERED AT THE BEARING LEVELS SHOULD BE FURTHER EXCAVATED TO ADEQUATE SUPPORT SOILS AND THE CAVITY BACKFILLED WITH LEAN CONCRETE, STONE OR APPROVED STRUCTURAL FILL OR THE FOOTING MAY BE POURED AT THE EXCAVATED DEPTH. THE CONTRACTORS BID SHALL PROVIDE FOR ALL WORK REQUIRED TO FOUND THE BUILDING AT THE BEARING ELEVATIONS NOTED IN THE REFERENCED SOILS REPORT. CONTRACTOR SHALL ALSO PROVIDE UNIT COSTS FOR ADDITIONAL WORK SHOULD THE ACTUAL BEARING LEVELS ENCOUNTERED BE FOUND TO BE BELOW THOSE NOTED IN THE SOILS REPORT.

ALL BEARING ELEVATIONS, EXCAVATIONS AND MATERIALS SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE. THE GEOTECHNICAL ENGINEER SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

ALL BEARING STRATA MUST BE PROTECTED FROM FREEZING. THE CONTRACTOR SHALL BACKFILL AND/OR PROVIDE PROTECTION TO PREVENT FROST PENETRATION BELOW THE CONCRETE BEARING ELEVATIONS. ANY FROZEN SOIL, BELOW THE FOUNDATION BEARING LEVEL MUST BE REMOVED.

ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 3'-6" BELOW FINISHED GRADE.

MODULUS OF SUBGRADE CHECKED = 100 PCI (ASSUMED). FINAL SLAB LOADING AND / OR RACK LAYOUT SHALL BE REEVALUATED WHEN ACTUAL MODULUS IS KNOWN. ARCHITECT/OWNER SHALL FURNISH MODULUS, LOADINGS, RACK LAYOUTS AND DETAILS, PROPOSED JOINTS, ETC. FOR ANALYSIS PRIOR TO CASTING THE FLOOR SLABS.

ALL COMPACTED FILL MATERIAL SHALL BE INSPECTED AND APPROVED BY THE PROJECT SOILS ENGINEER. DEPTHS OF LIFTS, COMPACTION DENSITIES, MOISTURE CONTENTS, ETC. SHALL BE AS SPECIFIED BY THE PROJECT SOILS ENGINEER. SEE THE REFERENCED SOIL REPORT FOR ADDITIONAL INFORMATION.

ALL SLAB-ON-GRADE AREAS SHALL BE PROOF ROLLED. ALL SOFT SPOTS ENCOUNTERED SHALL BE REMOVED AND REPLACED TO FINISHED GRADE WITH APPROVED FILL MATERIAL. INSPECTION, REVIEW AND COMPACTED FILL REQUIREMENTS SHALL BE BY THE PROJECT SOILS ENGINEER. CONSULT THE PROJECT SOILS ENGINEER FOR ADDITIONAL INFORMATION AND / OR REQUIREMENTS.

GENERAL CONTRACTOR SHALL COORDINATE FINAL STEP FOOTING LOCATIONS WITH THE PRECAST CONCRETE MANUFACTURER'S WALL PANEL LAYOUT, AS WELL AS THE FINAL GRADE ELEVATIONS ESTABLISHED (MAINTAIN A MINIMUM FROST COVER TO BOTTOM OF FOOTINGS OF 42 INCHES).

ALL LOCAL, STATE AND FEDERAL REGULATIONS AND PROCEDURES REGARDING SAFETY ARE THE RESPONSIBILITY OF THE CONTRACTOR.

CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IN THE EVENT THAT THE SOILS CONDITIONS ENCOUNTERED VARY FROM THOSE SHOWN ON THE BORING LOGS.

**CONCRETE AND REINFORCING:**

ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301), LATEST EDITIONS.

ALL CONCRETE SHALL BE NORMAL WEIGHT (145 P.C.F.) CONCRETE AND SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I.

ALL NORMAL WEIGHT CONCRETE (145 P.C.F.) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:

FOUNDATION WALLS	-	3000 PSI
SLABS-ON-GRADE	-	4000 PSI

THE COMPRESSIVE STRENGTH OF ALL GROUT USED TO PROVIDE LEVEL BEARING OF COLUMN BASE PLATES SHALL MATCH THE COMPRESSIVE STRENGTH OF THE SUPPORTING CONCRETE SUBSTRUCTURE.

CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED IN ANY CONCRETE.

ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE, SHALL BE AIR ENTRAINED 6 % WITH A TOLERANCE OF +1.5 % AS DELIVERED.

TEST CYLINDERS SHALL BE MADE AND TESTED AS OUTLINED IN CHAPTER 16 OF ACI-301 SPECIFICATION OR PER ARCHITECTURAL SPECIFICATIONS.

COLD WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI-306. HOT WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI-305.

REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM SPECIFICATION A-615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. ALL REINFORCING AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARDS 315 AND 315R.

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR THE REINFORCEMENT IN ALL CAST-IN-PLACE CONCRETE WORK:

FOOTINGS AND CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	-	3"
FORMED SURFACES PERMANENTLY EXPOSED TO EARTH OR WEATHER (#5 BARS OR SMALLER)	-	1 1/2"
(#6 BARS OR LARGER)	-	2"
FORMED SURFACES NOT EXPOSED TO WEATHER OR EARTH	-	3/4"
SLABS, WALLS, JOISTS	-	1 1/2"
BEAMS, COLUMNS	-	1 1/2"

SEE DETAILS FOR ADDITIONAL REQUIREMENTS.

THE MAXIMUM LENGTH OF WALL POURS SHALL BE 100 FEET. THE VERTICAL ENDS OF WALLS SHALL BE BULKHEADED AND PROVIDED WITH KEYWAYS AND DOWELS TO ENGAGE SUCCEEDING CONCRETE POURS. AT EXPOSED WALLS, PROVIDE CONTROL JOINTS UNIFORMLY AT SPACINGS NOT TO EXCEED 20 FEET CENTERS.

PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN ON THE PLANS AND DETAILS. PLASTIC COATED ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.

REINFORCEMENT SHALL BE CONTINUOUS ACROSS JOINTS AND AROUND CORNERS OR SPICE BARS SHALL BE PROVIDED IN ACCORDANCE WITH ACI STANDARDS 315 AND 315R. CORNER BARS SHALL BE PROVIDED AT ALL WALL CORNERS, EQUAL TO THE HORIZONTAL WALL REINFORCEMENT. HEATING OF THE REINFORCING BARS FOR BENDING WILL NOT BE PERMITTED.

LAP SPICES SHALL BE IN ACCORDANCE WITH ACI 318, LATEST EDITION, OR 40 DIAMETERS, WHICHEVER IS GREATER.

FOUNDATION WALLS AND GRADE BEAMS SHALL HAVE A MINIMUM OF TWO (2) - #5 BARS TOP AND BOTTOM CONTINUOUS, UNLESS OTHERWISE SHOWN OR NOTED.

PLACE TWO (2) - #5 BARS (EACH FACE) WITH 2'-0" PROJECTION AROUND ALL OPENINGS IN CONCRETE, UNLESS OTHERWISE SHOWN OR NOTED.

CONTROL JOINTS FOR SLABS-ON-GRADE SHALL BE IN A SQUARE OR RECTANGULAR PATTERN AND SHALL BE SPACED NOT MORE THAN THREE (3) TIMES THE SLAB THICKNESS (IN FEET) OR 15 FT. ON CENTER, WHICHEVER IS LESS, UNLESS NOTED OTHERWISE ON PLAN.

GENERAL CONTRACTOR SHALL CHECK WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK, AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR PROPER LOCATION BEFORE PLACING CONCRETE. PITCH CONCRETE SLABS AS REQUIRED TO ALL FLOOR DRAINS.

**STRUCTURAL STEEL:**

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", AND THE AISC "CODE OF STANDARD PRACTICE", 9TH EDITION.

STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS (UNLESS OTHERWISE NOTED).

W SHAPES	ASTM A992
MISC PLATES AND SHAPES	ASTM A36
STRUCTURAL TUBING (HSS)	A-500 GRADE B
STRUCTURAL PIPE	A-53
ANCHOR BOLTS	A-307
STRUCTURAL BOLTS	A-325-N
EXPANSION ANCHORS	STUD TYPE, BY HILTI, OR EQUIVALENT.
WELDING ELECTRODES	E-70XX

ALL BEAMS SHALL BE DETAILED AND INSTALLED WITH NATURAL CAMBER UP. ALL SHOP AND FIELD WELDING SHALL BE MADE IN ACCORDANCE WITH A.I.S.C. D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION," AND SHALL BE MADE BY QUALIFIED "CERTIFIED" WELDERS. PROVIDE MINIMUM WELD SIZE PER AISC J2.1 AND J2.2.

TYPICAL BEAM CONNECTIONS SHALL BE STANDARD AISC FRAMED BEAM CONNECTIONS, UNLESS OTHERWISE SHOWN. ALL FIELD CONNECTIONS, EXCEPT WHERE SHOWN WELDED, SHALL BE BOLTED WITH 3/4" DIAMETER HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED. CONNECTIONS SHALL BE DESIGNED FOR 50% OF THE TOTAL ALLOWABLE UNIFORM LOAD (IN KIPS) DERIVED FROM THE AISC MANUAL'S TABLE OF "UNIFORM LOAD CONSTANTS" FOR NON-COMPOSITE BEAMS.

MOMENT CONNECTIONS NOTED ON DRAWINGS SHOULD BE DESIGNED TO DEVELOP FULL CAPACITY OF MEMBER SPECIFIED. UNLESS DESIGN MOMENTS AND SHEARS ARE NOTED ON THE DRAWINGS. AT THE STEEL SUBCONTRACTORS OPTION, BOLTED OR WELDED CONNECTIONS CAN BE UTILIZED, PROVIDED THAT THEY ARE ABLE TO RESIST THE ABOVE MENTIONED LOADS. CONNECTIONS WILL BE REVIEWED FOR COMPLIANCE; SUBSTANTIATING CALCULATIONS / DATA MAY BE REQUIRED.

STEEL CONNECTIONS ARE TO BE DESIGNED BY THE STEEL SUBCONTRACTOR IN ACCORDANCE WITH AISC SPECIFICATIONS (16.3-9) AND AS APPROPRIATE FOR THE FABRICATOR'S STANDARD SHOP PRACTICES, UNLESS NOTED OTHERWISE. SEE THE ABOVE MENTIONED REQUIREMENTS AND THE STRUCTURAL DRAWINGS FOR PERFORMANCE CRITERIA AND ADDITIONAL INFORMATION.

ALL BOLTED JOINTS ARE CONSIDERED SNUG TIGHT UNLESS NOTED OTHERWISE. ALL BOLTED JOINTS THAT ARE SLIP-CRITICAL JOINTS, INCLUDE BUT ARE NOT LIMITED TO: MOMENT RESISTING JOINTS, JOINTS UTILIZING A490 BOLTS, JOINTS UTILIZING A COMBINATION OF BOLTS AND WELDS.

ALL STRUCTURAL STEEL SHALL RECEIVE ONE COAT OF APPROVED SHOP PAINT, AS SPECIFIED IN THE ARCHITECTURAL SPECIFICATIONS.

THIS BUILDING'S FRAME IS A NON-Self-SUPPORTING STEEL FRAME AS DEFINED IN THE AISC CODE OF STANDARD PRACTICE, SECTION 7.9.3 (NINTH EDITION). CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS FOR THE FRAME UNTIL ALL THE DESIGN SUPPORTS (FLOORS AND/OR ROOF) ARE IN PLACE.

ALL BEAM SPICES, NOT INDICATED ON THE CONTRACT DOCUMENTS, SHALL BE FULL PENETRATION WELDED TO RESTORE FULL CAPACITIES OF THE ORIGINAL BEAM, BOLTED CONNECTIONS SHALL BE USED FOR ERECTION PURPOSES ONLY, UNLESS SHOWN OTHERWISE BY THE ENGINEER OF RECORD. IF SPICES ARE REQUIRED FOR CONSTRUCTION PURPOSES, CONTRACTOR SHALL COORDINATE ALL SPICE LOCATIONS WITH THE ARCHITECT AND THE VARIOUS PROJECT CONSULTANTS TO AVOID ANY INTERFERENCE/CONFLICTS WITH OTHER TRADES.

OPENINGS 1'-4" AND OR LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

UNLESS NOTED OTHERWISE ON THE PLANS, PROVIDE WT 4 X 5 UNDER ALL ROOF TOP MECHANICAL EQUIPMENT CURBS.

THE ASSEMBLY SHALL BE CONSIDERED UNRESTRAINED FOR THE PURPOSES OF FIRE-RESISTANCE.

ALL STEEL STAIRS SHALL BE DESIGNED, MANUFACTURED, AND INSTALLED BY THE STRUCTURAL STEEL CONTRACTOR. THE STAIR MANUFACTURER SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF THEIR PRODUCT, INCLUDING ALL ACCESSORIES AND CONNECTIONS. STAIRS SHALL BE DESIGNED FOR ALL LOADING CONDITIONS REQUIRED BY THE GOVERNING BUILDING CODES IN ADDITION TO ANY SPECIFIC LOADINGS SHOWN ON THE DRAWINGS. THE DESIGN, MANUFACTURE AND INSTALLATION OF ALL STEEL PAN STAIRS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, LATEST EDITION.

**LIGHT-GAGE STEEL STUDS AND JOISTS:**

LIGHT GAGE STEEL FRAMING BE DESIGNED, DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC PUBLICATION: "DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION."

STEEL JOISTS AND STUDS SHALL BE FORMED FROM STEEL MEETING THE REQUIREMENTS OF ASTM A-570 (12, 14, AND 16 3/4" H). MATERIAL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI) AND ASTM A-611 (18 AND 20 3/4" H). MATERIAL WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI).

PROVIDE WEB STIFFENERS AT ALL JOIST BEARING LOCATIONS, AS REQUIRED BY ANALYSIS, TO DEVELOP ADEQUATE BEARING STRENGTH FOR THE LOADS SHOWN IN THE DESIGN LOAD TABLES, AS PUBLISHED BY THE REFERENCED MANUFACTURER.

SUBMIT SHOP DRAWINGS FOR STRUCTURAL LIGHT GA. INCLUDING BUT NOT LIMITED TO: FRAMING, JOISTS, WALLS, ETC. PREPARED UNDER THE SUPERVISION OF A REGISTERED STRUCTURAL ENGINEER, AND CALCULATIONS, SIGNED AND SEALED BY SAID ENGINEER, FOR REVIEW PRIOR TO ERECTION OF ANY LIGHT GAGE STEEL FRAMING.

PROVIDE ALL ACCESSORIES, INCLUDING BUT NOT LIMITED TO BEARING STIFFENERS, WEB STIFFENERS, BRIDGING, END BLOCKING, JACK STUDS, CRIPPLES AND TEMPORARY BRACING, AS REQUIRED BY CODE AND/OR ANALYSIS AND SHOWN ON THE SHOP DRAWINGS. NOTE: WAIVER OF SHOP DRAWING SUBMITTAL BY THE ARCHITECT DOES NOT RELIEVE THE CONTRACTOR OR MANUFACTURER FROM THE RESPONSIBILITY OF SUPPLYING OR INSTALLING THE NECESSARY ACCESSORIES.

FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS OR WELDS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT; ALL WELDS OF CARBON STEEL SHALL BE TOUCHED UP WITH PAINT.

**MISCELLANEOUS**

THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

THE DESIGN, MANUFACTURE AND ERECTION OR INSTALLATION OF ALL MANUFACTURED ITEMS (JOISTS, JOIST GIRDERS, PRECAST CONCRETE MEMBERS, STAIRS, CURTAIN WALL SYSTEMS, ETC.) AND THEIR CONNECTIONS TO THE PRIMARY STRUCTURAL FRAMING ELEMENTS, SHALL BE PROMULGATED BY AND IN ACCORDANCE WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS AND/OR SPECIFIC CRITERIA NOTED ON THE DRAWINGS. THE COMPLIANCE WITH THESE CONTINGENCIES IS SOLELY THE RESPONSIBILITY OF THE ITEM MANUFACTURER.

FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS INDICATED ON THE DRAWINGS. PROVIDE CERTIFIED SURVEY, ETC. AS REQUIRED FOR THE FABRICATION AND INSTALLATION OF ALL NEW MATERIALS TO FIT THE EXISTING CONDITIONS. CONSTRUCTION ISSUES OR CONFLICTS SHALL BE ADDRESSED IN THE BIDDING AND / OR FABRICATION PHASE OF THE WORK.

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.

THESE DOCUMENTS ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE ON EXTENSIONS OF THE PROJECT OR ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY ALTA ENGINEERING, LTD. IS PROHIBITED AND WILL BE AT THE SOLE RISK OF OTHERS AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO ALTA ENGINEERING, LTD.

ALTA ENGINEERING, LTD. SHALL NOT SUPERVISE, DIRECT OR HAVE CONTROL OVER THE CONSTRUCTION WORK NOR SHALL IT HAVE AUTHORITY OVER OR RESPONSIBILITY FOR THE MEANS, METHODS, TECHNIQUES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTORS.

THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. AS PART OF HIS RESPONSIBILITY, THE CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED STRUCTURAL ENGINEER TO DESIGN AND SUPERVISE ANY SCAFFOLDING FOR WORKMEN AND ALL SHORING OF FORMS AND ELEMENTS OF CONSTRUCTION.

THE GENERAL CONTRACTOR, AT HIS EXPENSE, SHALL ENGAGE PROPERLY QUALIFIED PERSONS TO DETERMINE WHERE AND HOW TEMPORARY PRECAUTIONARY MEASURES SHALL BE USED AND INSPECT THE SAME IN THE FIELD. ANY OBSERVATION VISITS BY THE FIELD REPRESENTATIVE (ARCHITECT OR ENGINEER) SHALL NOT INCLUDE THE INSPECTION OF THE ITEMS.

ALL LOCAL, STATE AND FEDERAL REGULATIONS AND PROCEDURES REGARDING SAFETY ARE THE RESPONSIBILITY OF THE CONTRACTOR.

DO NOT SCALE DRAWINGS.

ALL ALTERNATE DETAILS, MATERIALS, ETC., AS WELL AS FIELD MODIFICATIONS AND / OR DEVIATIONS PROPOSED AND PROVIDED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MUST PROVIDE FOR A FULLY ENGINEERED SOLUTION, INCLUDING BACK-UP CALCULATIONS AND CERTIFICATION BY A LICENSED STRUCTURAL ENGINEER. THE BACKUP INFORMATION SHALL BE FORWARDED TO THE ALTA FOR REVIEW AND EVALUATION OF IMPACT ON THE STRUCTURE.

**SPECIAL INSPECTIONS:**

SPECIAL INSPECTORS (SI) SHALL BE RETAINED AND PAID BY THE GENERAL CONTRACTOR.

THE SI SHALL BE FULLY QUALIFIED, APPROVED BY THE BUILDING OFFICIAL, REGISTERED BY APPLICABLE REGISTRATION BOARD IF REQUIRED AND ACCEPTABLE TO THE ARCHITECT.

THE DUTIES OF THE SI SHALL INCLUDE, BUT NOT LIMITED TO: VERIFICATION OF CONSTRUCTION QUALITY CONTROL, TESTING, COMPLIANCE WITH CONSTRUCTION DOCUMENTS, BUILDING CODE REQUIREMENTS, AND LOCAL BUILDING DEPARTMENT REQUIREMENTS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROPER NOTIFICATION TO THE SI AND PROCEED WITH THE CONSTRUCTION ONLY AFTER THE SI'S REVIEW AND APPROVAL.

SI SHALL KEEP RECORDS OF ALL INSPECTIONS AND TESTING. THE SI SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, ARCHITECT AND ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONAL PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AS AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL. INTERIM REPORTS SHALL BE SUBMITTED PERIODICALLY WITH A MINIMUM FREQUENCY OF TWO WEEKS.

SPECIAL INSPECTIONS ARE REQUIRED FOR, BUT NOT LIMITED TO, THE FOLLOWING ACTIVITIES PER INTERNATIONAL BUILDING CODE (IBC), LATEST EDITION:

**FOUNDATIONS:**

FOUNDATION EXCAVATION AND FILL PLACEMENT PER THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.

**CONCRETE:**

TESTING OF MATERIALS IS REQUIRED IN ABSENCE OF SUFFICIENT DATA OR DOCUMENTATION FOR CONFORMANCE TO QUALITY STANDARDS OF MATERIALS PER CHAPTER 3 OF ACI 318.

ANCHOR BOLTS, REINFORCING STEEL AND THEIR PLACEMENT PRIOR TO CONCRETE POUR.

APPROVED MIX DESIGNS WITH DELIVERY TICKETS.

SAMPLING OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS AT THE RATE OF THREE (3) CYLINDERS PER 100 C.Y. OR LESS.

MAINTENANCE OF REQUIRED CURING TEMPERATURES AND TECHNIQUES AFTER EACH POUR.

CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.

REINFORCING STEEL AND ANCHOR BOLT PLACEMENT IN FOOTINGS, GRADE BEAMS, PIERS, WALLS AND SLABS FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS AND ACI 318.

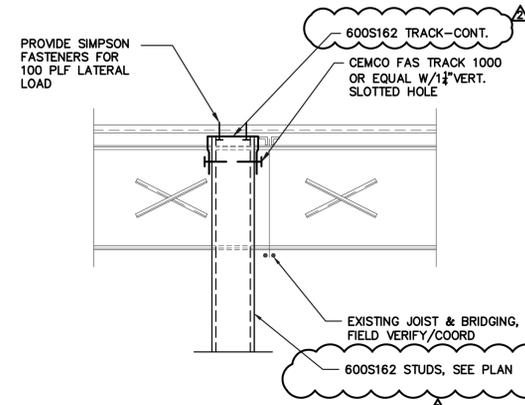
CONCRETE OPERATIONS (PLACING AND CURING) FOR FOUNDATIONS, GRADE BEAMS, PIERS, WALLS AND SLABS PER TABLE 1704.4.

PRECAST CONCRETE ERECTION AND CONNECTIONS.

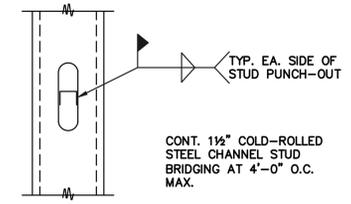
**SHOP DRAWING SUBMITTAL & REVIEW:**

REPRODUCTION OF THE STRUCTURAL DOCUMENTS BY ANY PHOTOGRAPHIC, XEROGRAPHIC, ETC., PROCESS OR TECHNIQUE FOR DIRECT INCORPORATION OF THE PLANS, DETAILS, NOTES, ETC., HEREIN CONTAINED INTO A SHOP DRAWING IS STRICTLY PROHIBITED.

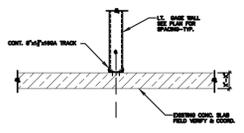
ANY SHOP DRAWING OR SUBMITTAL, RECEIVED BY THE STRUCTURAL ENGINEER, WHICH HAS BEEN PRODUCED IN WHOLE, OR IN PART, BY THE ABOVE MENTIONED TECHNIQUES, SHALL BE REJECTED.



1 SECTION NO SCALE



2 BRIDGING DETAIL-TYP. @ DEMISING WALL STUD NO SCALE



3 SECTION @ DEMISING WALL BASE CONNECTION NO SCALE



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DRAWN:	05 14 2024

**SHEET TITLE:**  
**GENERAL NOTES**

SHEET NO.: **S3.0**



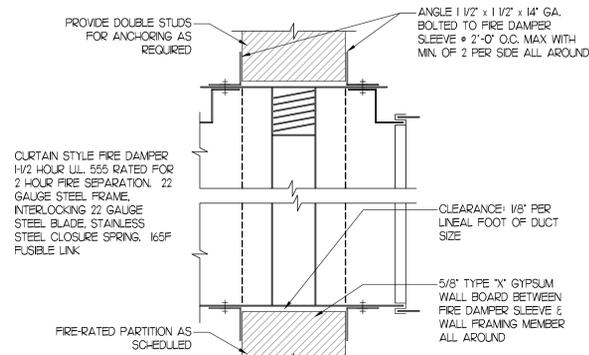
Date: 08-02-24  
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MECHANICAL ABBREVIATIONS

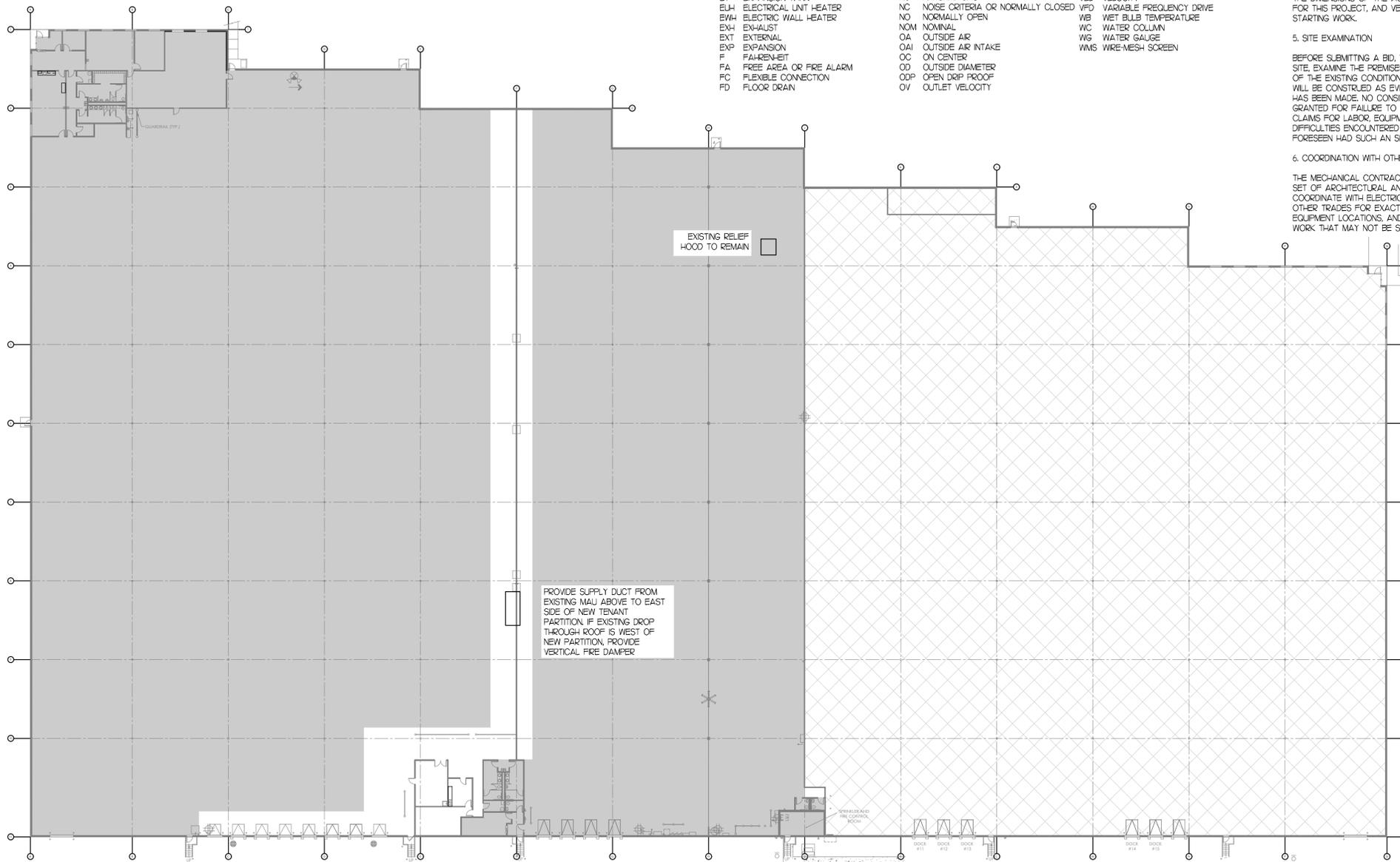
A AIR OR COMPRESSED AIR	FLD FIRE DAMPER	POF POUNDS PER CUBIC FOOT
AC AIR CONDITIONING	FLA FULL LOAD AMPS	PD PRESSURE DROP
ACD AUTOMATIC CONTROL DAMPER	FLEX FLEXIBLE	PH PHASE
AD ACCESS DOOR	FFM FEET PER MINUTE	PRV PRESSURE REDUCING VALVE
AF AIR FOL	FFP FEET PER SECOND	PSI POUNDS PER SQUARE INCH
AHU AIR HANDLING UNIT	FRP FIBERGLASS REINFORCED PLASTIC	PSIA POUNDS PER SQUARE INCH - ABSOLUTE
AMP AMPERE	FS FLOW SWITCH	PSD POUNDS PER SQUARE INCH - DIFFERENTIAL
AP ACCESS PANEL	FT FEET	PSIG POUNDS PER SQUARE INCH - GAUGE
APD AIR PRESSURE DROP	G GAS	PVC POLYVINYL CHLORIDE
AS AIR STREAM	GA GAUGE	R RADUS
ATC AUTOMATIC TEMPERATURE CONTROL	GAL GALLONS	RA RETURN AIR
ATM ATMOSPHERE	GALV GALVANIZED	RET RETURN
BDD BACK-DRAFT DAMPER	GR GRADE	RH RELATIVE HUMIDITY
BHP BRAKE HORSEPOWER	HD HEAD	RLA RUNNING LOAD AMPS
BI BACKWARDS INCLINED	HP HORSEPOWER OR HIGH POINT	RLF RELIEF
BOB BOTTOM OF DUCT	HR HOUR	RPM REVOLUTIONS PER MINUTE
BTU BRITISH THERMAL UNIT	HTG HEATING	RTU ROOF-TOP UNIT
BTUH BTU PER HOUR	HWR HOT WATER RETURN	SA SUPPLY AIR
CENT CENTER OR CENTRIFUGAL	HWS HOT WATER SUPPLY	SCR SCREEN
CF CUBIC FEET	HZ HERTZ (CYCLES PER SECOND)	SCT SATURATED CONDENSING TEMPERATURE
CFM CUBIC FEET PER MINUTE	ID INSIDE DIAMETER	SD SMOKE DETECTOR OR SMOKE DAMPER
CO CARBON MONOXIDE	IN INCHES	SE SMOKE EXHAUST
CONN CONNECTION	KW KILOWATT	SEN SENSIBLE
CHWS CHILLED WATER SUPPLY	LAT LEAVING AIR TEMPERATURE	SFD COMBINATION SMOKE / FIRE DAMPER
CHWR CHILLED WATER RETURN	LB POUND	SHC SENSIBLE HEAT CAPACITY
CWS CONDENSER WATER SUPPLY	LF LINEAR FEET	SP STATIC PRESSURE
CWR CONDENSER WATER RETURN	LD LINEAR DIFFUSER	SP SQUARE FEET
D DRAIN	LP LOW POINT	SS STAINLESS STEEL
DB DRY BULB (TEMPERATURE)	LRA LOCKED ROTOR AMPS	SUP SUPPLY
DEG DEGREE	LVR LOUVER	T TEMPERATURE OR THERMOSTAT
DDC DIRECT DIGITAL CONTROL	LVDOR LOUVERED DOOR	TEFC TOTALLY ENCLOSED FAN COOLED
DIA DIAMETER	LVS LEAVING	TEMP TEMPERATURE
DM DIMENSION	MAX MAXIMUM	TSTAT THERMOSTAT
DP DIFFERENTIAL PRESSURE	MB-I 1000 BTUH	TON 12,000 BTUH (COOLING CAPACITY)
EA EACH OR EXHAUST AIR	MCA MINIMUM CIRCUIT AMPS	TYP TYPICAL
EAT ENTERING AIR TEMPERATURE	MECH MECHANICAL	UC UNDERCUT (DOOR)
EF EXHAUST FAN	MIN MINIMUM	V VOLTS
EMER EMERGENCY	MU MAKE-UP WATER	VD VOLUME DAMPER
ESP EXTERNAL STATIC PRESSURE	MUA MAKE-UP AIR	VEL VELOCITY
ET EXPANSION TANK	NG NATURAL GAS	VFD VARIABLE FREQUENCY DRIVE
ELH ELECTRICAL UNIT HEATER	NC NOISE CRITERIA OR NORMALLY CLOSED	WB WET BULB TEMPERATURE
EWL ELECTRICAL WALL HEATER	NO NORMALLY OPEN	WC WATER COLUMN
EXH EXHAUST	NOM NOMINAL	WG WATER GAUGE
EXT EXTERNAL	OA OUTSIDE AIR	WMS WIRE-MESH SCREEN
EXP EXPANSION	OAI OUTSIDE AIR INTAKE	
F FAHRENHEIT	OC ON CENTER	
FA FREE AREA OR FIRE ALARM	OD OUTSIDE DIAMETER	
FC FLEXIBLE CONNECTION	ODP OPEN DRIP PROOF	
FD FLOOR DRAIN	OV OUTLET VELOCITY	

MECHANICAL GENERAL NOTES

- CODES  
THE WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, MUNICIPAL, AND NATIONAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS THE CONSTRUCTION DOCUMENTS SHALL GOVERN. HOWEVER, THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE AND CODE OR REGULATION.
- DRAWINGS AND SPECIFICATIONS  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND COMPLYING WITH BOTH THE DRAWINGS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN THE DRAWINGS, NOTES, SPECIFICATIONS, OR CODES, THE REFERENCE WHICH PROVIDES THE MORE COMPLETE OR HIGHER STANDARD SHALL PREVAIL.
- INTERPRETATION OF THE DOCUMENTS  
CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING MEASUREMENTS AND CONDITIONS UNDER WHICH THIS INSTALLATION IS TO BE MADE. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS, BETWEEN DRAWINGS OR SPECIFICATION, OR BETWEEN SECTIONS OF THE SPECIFICATION, THE MATTER SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS A COMPLETE, READY TO USE INSTALLATION IF NOT STATED IN THE PROPOSAL, IT WILL NOT BE CONSIDERED EXTRA.
- MECHANICAL DRAWINGS  
THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL DOORS, WALLS, FURNITURE, EQUIPMENT, ETC. THE LOCATION OF DUCTWORK AND PIPING SYSTEM COMPONENTS ARE SCHEMATIC. THE EXACT LOCATION OF THESE SYSTEM COMPONENTS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL CONFIRM THE DIMENSIONS OF THE ACTUAL EQUIPMENT TO BE SUPPLIED FOR THIS PROJECT, AND VERIFY CLEARANCES PRIOR TO STARTING WORK.
- SITE EXAMINATION  
BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE EXISTING CONDITIONS. THE SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE OR FOR LATER CLAIMS FOR LABOR, EQUIPMENT, MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN SITE EXAMINATION BEEN MADE.
- COORDINATION WITH OTHER TRADES  
THE MECHANICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF ARCHITECTURAL AND ENGINEERING DOCUMENTS AND COORDINATE WITH ELECTRICAL, PLUMBING, ARCHITECTURAL, AND OTHER TRADES FOR EXACT DIMENSIONS, CLEARANCES, EQUIPMENT LOCATIONS, AND OTHER ADDITIONAL SCOPES OF WORK THAT MAY NOT BE SHOWN ON THE MECHANICAL PLANS.
- PERMITS, APPLICATIONS AND RELEASES  
THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, APPLICATIONS, RELEASES AND FEES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES FOR THE EXECUTION OF THIS WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- FIRE STOPPING  
ALL PENETRATIONS IN WALL, FLOOR OR CEILING SHALL BE SUITABLY CLOSED UP AND SEALED WITH AN INTUMESCENT FIRE STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. FIRE STOPPING PRODUCTS SHALL BE MANUFACTURED BY 3M CO.
- OWNER FURNISHED EQUIPMENT  
EQUIPMENT THAT WILL BE FURNISHED BY THE OWNER WILL BE INDICATED ON A SEPARATE SCHEDULE. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR DELIVERY SCHEDULES. THE CONTRACTOR IS TO ASSUME THAT ON SITE STORAGE MAY NOT BE AVAILABLE WHEN COORDINATING DELIVERY OF EQUIPMENT. THE CONTRACTOR, IN COORDINATION WITH THE OWNER'S REPRESENTATIVE, WILL INSPECT THE DELIVERY FOR ACCURACY AND SHIPMENT DAMAGE AND ACCEPTING THE EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO STORE, PROTECT AND ULTIMATELY INSTALL THE EQUIPMENT.
- EQUIPMENT  
ALL MATERIALS AND EQUIPMENT USED IN THIS INSTALLATION SHALL BE NEW, AND HAVE THE APPROPRIATE UL LISTING AND LABEL.
- MISCELLANEOUS SUPPORTING MEMBERS  
ALL ANGLES CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, RODS, ETC. REQUIRED TO SUPPORT LIGHT FIXTURE, CONDUIT, RACEWAY, LADDER TRAY, OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- SAFETY  
THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE OWNER'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS, AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CONDUCTORS, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.
- MANUFACTURER'S INSTALLATION INSTRUCTIONS  
THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EACH MECHANICAL APPLIANCE OR PIECE OF EQUIPMENT SHALL BE AVAILABLE TO BUILDING DEPARTMENT INSPECTORS AT THE JOB SITE FOR EACH INSPECTION. LISTING AND LABELING SHALL ALSO BE MADE AVAILABLE.
- TEST AND BALANCE REPORTS  
MECHANICAL SYSTEM SHALL BE BALANCED BY AN APPROVED METHOD. PROVIDE A TEST AND BALANCE REPORT TO THE MUNICIPALITY PRIOR TO THE FINAL INSPECTION FOR THEIR FILE. ALSO PROVIDE A REPORT TO THE INSPECTOR AND A REPORT ON SITE FOR FINAL MECHANICAL INSPECTION. SUCH BALANCING SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING AND EXHAUSTING THE AIRFLOW RATES REQUIRED BY IBC SECTIONS 403.3 AND 403.3.12.



1 VERTICAL FIRE DAMPER DETAIL  
M-1.0 NO SCALE



OVERALL MECHANICAL PLAN

SCALE: 1/32"=1'-0"



**NOTE:**  
ALL AREAS ILLUSTRATED WITH THIS HATCH ARE PART OF THE REMAINING AVAILABLE SPACE AND ARE NOT INCLUDED IN THIS CONTRACT.

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AUGUST 06, 2024  
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SHEET TITLE:

OVERALL MECHANICAL PLANS,  
DETAILS & NOTES

SHEET NO.:

M-1.0

## SPECIFICATIONS

**SCOPE:** THIS SPECIFICATION REQUIRES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO MAKE A COMPLETE AND ACCEPTABLE MECHANICAL INSTALLATION AS SPECIFIED HEREIN AND SHOWN ON DRAWINGS. PROVIDE ALL ITEMS, ARTICLES, OPERATIONS, OR METHODS LISTED, MENTIONED, OR SCHEDULED HEREIN OR ON THE DRAWINGS, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY AND REQUIRED FOR COMPLETION OF THE WORK.

**REGULATIONS, CODES, AND STANDARDS:** CURRENT CODE REQUIREMENTS SHALL BE SATISFIED, WHERE REQUIRED BY LOCAL, STATE, OR FEDERAL AUTHORITY HAVING JURISDICTION, NO EQUIPMENT WILL BE ACCEPTED UNLESS IT BEARS THE ACCEPTANCE LABEL OF AN APPROPRIATE TESTING AGENCY.

**SHOP DRAWINGS:** ASUBMIT TO THE PROJECT ENGINEER, FOR APPROVAL, SHOP DRAWINGS FOR ALL EQUIPMENT LISTED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS. ALLOW 10 BUSINESS DAYS FOR REVIEW BY ARCHITECT/ENGINEER. SUBMITTALS SHALL INCLUDE AS A MINIMUM THE FOLLOWING:

- PRODUCT DATA: MANUFACTURER'S LITERATURE DESCRIBING ITEM, MODEL, NUMBERS PROPOSED SHALL BE IDENTIFIED WHEN THE LITERATURE DESCRIBES MORE THAN 10 ITEM.
- OPERATION CURVES: FOR ALL FANS SHOWING CAPACITIES, PRESSURES, HORSEPOWER, AND EFFICIENCY SHALL BE PROVIDED.
- MANUFACTURER'S SUBMITTAL: SHOWING ELECTRICAL AND MECHANICAL REQUIREMENTS AND CONNECTION LOCATIONS SHALL BE PROVIDED.
- MAINTENANCE DATA: SUBMIT MAINTENANCE DATA AND PARTS LIST FOR EACH TYPE OF EQUIPMENT REQUIRING PERIODIC MAINTENANCE.

ALL SHOP DRAWINGS SUBMITTED SHALL BE STAMPED, DATED, AND SIGNED BY THE CONTRACTOR TO CERTIFY THAT THEY HAVE BEEN CHECKED BY HIM AS TO CAPACITIES, DIMENSIONS, SPACE REQUIREMENTS AND LIMITATIONS, AND ANY AND ALL OTHER REQUIREMENTS, AND FOUND ACCEPTABLE. APPROVAL OF SHOP DRAWINGS BY THE PROJECT ENGINEER SHALL NOT RELIEVE CONTRACTOR FROM FULFILLING OPERATIONAL REQUIREMENTS, OR FURNISHING ALL MATERIAL AND EQUIPMENT SPECIFIED OR NOTED, WHETHER OR NOT SPECIFICALLY SHOWN ON THE SHOP DRAWINGS. THE QUANTITY TO BE SUBMITTED SHALL BE THE NUMBER REQUIRED BY THE GENERAL CONTRACTOR.

**AS-BUILT DRAWINGS:** THE CONTRACTOR SHALL SUBMIT AT COMPLETION ONE (1) SET OF MARKED-UP CONTRACT DRAWINGS WHICH SHOW ALL MODIFICATIONS TO THE CONTRACT AND CHANGES OF LOCATIONS, MATERIALS, OR CONFIGURATIONS. THIS SET SHALL BE SUBMITTED WITH THE OPERATING MANUALS TO THE PROJECT ENGINEER.

**OPERATING MANUALS:** PROVIDE THREE (3) MANUALS, EACH WITH A COMPLETE SET OF COPIES OF SHOP DRAWINGS REQUIRED FOR THE PROJECT AS WELL AS VALVE CHARTS, MANUFACTURER'S TESTING, CLEANING AND MAINTENANCE INSTRUCTIONS, LIST OF MATERIALS FOR MAINTENANCE, PARTS LIST, WIRING DIAGRAMS, AND NAME AND ADDRESS OF AUTHORIZED SERVICE ORGANIZATIONS AND SUPPLIERS. INFORMATION SHALL BE BOUND IN 8 1/2" X 11" THREE-RING, LOOSE-LEAF BINDER, AND INDEXED IN ACCORDANCE WITH THESE SPECIFICATIONS. BINDER COVER SHALL IDENTIFY JOB NAME, DATE, AND NAME AND ADDRESS OF CONTRACTOR, ARCHITECT, AND ENGINEER. MANUALS SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW OF MATERIAL PRIOR TO THE FINAL INSPECTION. MANUALS WILL BE RETURNED TO THE CONTRACTOR FOR THE SUBMITTAL TO THE OWNER AT THE TIME OF SYSTEM INSTRUCTION.

**SYSTEM START-UP:** AT A TIME SET BY THE CONTRACTOR, AND AGREED TO BY THE OWNER, ARRANGE TO PLACE EQUIPMENT IN OPERATION. HAVE A FACTORY AUTHORIZED TECHNICIAN ASSIST IN THE EQUIPMENT START-UP AND MAKE NECESSARY ADJUSTMENTS TO PROVIDE SATISFACTORY OPERATIONS PRIOR TO TURNING FACILITY OVER TO OWNER. ALL EQUIPMENT SHALL RUN FOR THREE (3) HOUR TEST PERIODS. ANY REGRETTABLES, FAULTY EQUIPMENT, ETC., SHALL BE REPAIRED OR REPLACED PRIOR TO FINAL INSPECTION AND ACCEPTANCE. AFTER TESTING, ALL EQUIPMENT SHALL BE FRESHLY OILED, FILTERS REPLACED WITH CLEAN MEDIA, AND INSTALLATION COMPLETELY FINISHED PRIOR TO ACCEPTANCE.

**OWNER INSTRUCTION:** CONTRACTOR SHALL ARRANGE, IN WRITING, WITH THE OWNER, PRIOR TO FINAL INSPECTION, A DATE OR DATES TO INSTRUCT THE OWNER, AND THE OWNER'S DESIGNATED REPRESENTATIVES, IN THE OPERATION AND MAINTENANCE OF THE SYSTEM.

**FINAL INSPECTION:** UPON COMPLETION OF ALL WORK, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE FOLLOWING DATA:

- BALANCE REPORTS
- MAINTENANCE MANUALS

AFTER RECEIVING APPROVAL OF THE ABOVE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING AND MAKE ARRANGEMENTS FOR A FINAL INSPECTION. AFTER THE FINAL INSPECTION IS MADE, THE CONTRACTOR WILL RECEIVE A LIST OF ITEMS REQUIRING ADJUSTMENT, CORRECTION, REPLACEMENT, OR COMPLETION. THE CONTRACTOR SHALL COMPLY COMPLETELY WITH ALL THE LISTED REQUIREMENTS WITHIN THIRTY (30) DAYS OF THE RECEIPT OF LIST. SHOULD THE CONTRACTOR FAIL TO PERFORM WITHIN THIS TIME LIMIT, THE PROJECT ENGINEER AND/OR OWNER RESERVES THE RIGHT TO HAVE THE WORK COMPLETED BY OTHERS AND THE COST DEDUCTED FROM THE CONTRACT PRICE.

**DISPOSAL:** ALL MATERIALS AND EQUIPMENT SHOWN OR INDICATED TO BE REMOVED AND NOT REINSTALLED OR RELOCATED, SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE OWNER'S PROPERTY UNLESS SPECIFIED TO THE CONTRARY.

**GUARANTEE:** THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS SUPPLIED BY HIM FOR ONE (1) YEAR AFTER ACCEPTANCE OF THE WORK IN HIS CONTRACT. IF, DURING THE GUARANTEE PERIOD, ANY DEFECTS OF FAULTY MATERIALS ARE FOUND, HE SHALL CORRECT IMMEDIATELY AND REPAIR ANY DAMAGE TO OTHER MATERIALS OR INSTALLATIONS CAUSED BY THE DEFECT.

**EXTENDED WARRANTIES:** WHEN EQUIPMENT IS FURNISHED BY THE CONTRACTOR, OR MANUFACTURER, WITH A WARRANTY LONGER THAN ONE (1) YEAR, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY ALONG WITH RECEIPTS OR OTHER DOCUMENTS NECESSARY FOR FUTURE WARRANTY REPAIRS, UNLESS OTHERWISE REQUIRED. EXTENDED WARRANTIES ARE FOR EQUIPMENT ONLY, NOT MATERIALS OR LABOR TO INSTALL.

**MATERIALS AND EQUIPMENT:** ALL EQUIPMENT AND MATERIALS TO BE INCORPORATED IN THIS CONTRACT WORK SHALL BE NEW AND OF THE MAKES AND TYPES AS SPECIFIED AND CONTRACTED FOR. NO REMOVED EQUIPMENT SHALL BE RE-INSTALLED OR RE-USED.

**PROPOSED EQUIPMENT AND MATERIALS:** THIS CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF PROPOSED EQUIPMENT AND MATERIALS, DESIGNATING MANUFACTURER'S NAME AND MODEL NUMBER OR TYPE, FOR PROJECT ENGINEER'S APPROVAL. CONTRACTOR SHALL MAKE SUCH SUBMITTAL WITHIN 15 DAYS AFTER NOTICE TO PROCEED AND BEFORE ORDERING ANY MATERIAL OR EQUIPMENT. APPROVAL OF SUCH A LIST SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM RESPONSIBILITY OF SUBMITTING SHOP DRAWINGS, NOR SHALL IT CONSTITUTE FINAL APPROVAL. SHOULD THE SHOP DRAWINGS BE FOUND TO BE PARTIALLY OR WHOLLY NOT IN FULL AGREEMENT WITH SPECIFICATION REQUIREMENTS.

**MECHANICAL SIGNS AND LABELS:** WHERE SPECIFIED, THESE SHALL BE 1/8" THICK PLASTIC LAMINATE WITH ENGRAVED LETTERING AND ADHESIVE BACKING. ADDITIONALLY THEY SHALL BE PUNCHED FOR MECHANICAL FASTENERS, UNLESS OTHERWISE SPECIFIED. COLOR SHALL BE BLACK WITH WHITE LETTERING.

**INSTALLATION:** INSTALLATION OF ALL MATERIAL, ITEMS OR EQUIPMENT AS SHOWN ON DRAWINGS OR DESCRIBED IN SPECIFICATIONS SHALL CONFORM AS NEARLY AS POSSIBLE TO MANUFACTURER'S RECOMMENDED PROCEDURE, UNLESS DESIGNATED OTHERWISE. SHOULD SELECTION OF APPROVED ALTERNATE EQUIPMENT REQUIRE REVISIONS, THIS CONTRACTOR SHALL MAKE ALL CHANGES TO ACCOMMODATE SUCH EQUIPMENT. CONTRACTOR SHALL PREPARE DRAWINGS OF REVISIONS FOR APPROVAL BY PROJECT ENGINEER PRIOR TO BEGINNING WORK. CHANGES AND DRAWINGS SHALL BE MADE AT NO CHANGE IN CONTRACT AMOUNT.

**REGULATIONS, CODES AND STANDARDS:** THIS CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES AND PAY ALL FEES IN CONNECTION WITH SAME FOR WORK PERFORMED UNDER DIVISION 15.

**IDENTIFICATION:** ACCESS PANELS SHALL HAVE ENGRAVED PLASTIC MARKERS INDICATING WHAT ACCESS DOOR IS PROVIDED FOR. PIPING SHALL HAVE MARKERS NEAR EACH BRANCH VALVE AND PIECE OF EQUIPMENT AND WHERE PIPE PASSES THROUGH WALLS, FLOORS, AND CEILINGS. SPACE MARKERS AT A MAXIMUM 25' INTERVALS.

**OPENINGS, CHASES AND RECESSES:** THIS CONTRACTOR SHALL GIVE GENERAL CONTRACTOR, IN SUFFICIENT TIME, ALL DIMENSIONS NEEDED FOR THE PROPER CONSTRUCTION AND LOCATION OF FORMS, CHASES AND OTHER OPENINGS WHICH MAY BE REQUIRED FOR THE INSTALLATION OF ALL EQUIPMENT, PIPE, DUCTS AND MATERIALS UNDER THIS CONTRACT.

**PROTECTION OF EQUIPMENT:** PROTECT AGAINST INJURY FROM WEATHER ALL BUILDING MATERIALS, SUPPLIES, TOOLS, EQUIPMENT, AND FIXTURES INSTALLED OR TO BE INSTALLED, WITH SUITABLE AND SUBSTANTIAL COVERS. COST OF

REPLACING OR REPAIRING EQUIPMENT AND FIXTURES MADE NECESSARY BY FAILURE TO PROVIDE SUITABLE PROTECTION SHALL BE PAID BY THIS CONTRACTOR. RESPONSIBILITY FOR THE CARE AND PROTECTION OF MECHANICAL EQUIPMENT AND WORK SHALL REMAIN WITH THIS CONTRACTOR UNTIL IT HAS BEEN TESTED AND ACCEPTED. PROTECT EQUIPMENT, OUTLETS, PIPE, DUCT, AND CONDUIT OPENINGS WITH TEMPORARY PLUGS, CAPS, OR APPROVED DEVICES.

**PROTECT DEVICES:** ALL GEARS, BELTS, AND MOVING PARTS ARE TO BE AMPLY PROTECTED BY SUBSTANTIAL, NEAT, AND APPROVED PERMANENT GUARDS, CASINGS, OR RAILINGS AS THE CASE MAY REQUIRE AND IN SUCH MANNER AS TO FULLY COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

**CLEANING:** AFTER ALL FIXTURES, MATERIALS, AND APPARATUS HAVE BEEN SET AND READY FOR USE, AND BEFORE THIS CONTRACTOR LEAVES THE JOB, HE SHALL THOROUGHLY CLEAN ALL EQUIPMENT FURNISHED AND SET BY HIM REMOVING ALL STICKERS, RUST STAINS, GREASE, CEMENT, AND OTHER FOREIGN MATTER OR DISCOLORATION ON EQUIPMENT, LEAVING EVERY PART IN ACCEPTABLE CONDITION, READY FOR USE. CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS RESULTING FROM HIS WORK, LEAVING BUILDING IN CLEAN CONDITION, SUITABLE FOR OCCUPANCY. VACUUM CLEAN INTERIOR OF ALL AIR HANDLING UNITS BEFORE COMPLETION AND PROVIDE NEW FILTERS JUST BEFORE TURNING OVER TO OWNER.

**ACTIVE UTILITIES:** WHEN ENCOUNTERED IN WORK, PROTECT, BRACE, AND SUPPORT EXISTING ACTIVE SEWERS, GAS, ELECTRIC, AND OTHER SERVICES WHERE REQUIRED FOR PROPER EXECUTION OF WORK. IF EXISTING ACTIVE UTILITIES ARE ENCOUNTERED THAT ARE NOT INDICATED, AND WHICH REQUIRE RELOCATION, MAKE REQUEST IN WRITING FOR DETERMINATION. DO NOT PROCEED WITH WORK UNTIL WRITTEN DIRECTIONS ARE RECEIVED. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES THAT ARE TO REMAIN.

**INACTIVE UTILITIES:** WHEN ENCOUNTERED IN WORK, REMOVE, CAP, OR PLUG INACTIVE SERVICES. NOTIFY UTILITY COMPANIES OR MUNICIPAL AGENCIES HAVING JURISDICTION, PROTECT OR REMOVE THESE SERVICES AS DIRECTED.

**INTERRUPTION OF UTILITIES:** WHERE WORK MAKES TEMPORARY SHUTDOWN OF SERVICES UNAVOIDABLE, SHUT DOWN AT NIGHT, OR AT SUCH TIMES AS APPROVED BY OWNER, WHICH WILL CAUSE LEAST INTERFERENCE WITH ESTABLISHED OPERATING ROUTINE. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME IF REQUIRED, SO AS TO MAKE THE SHUTDOWN OF SERVICES THE LEAST AMOUNT OF TIME.

### FIRE DAMPERS

STATIC AND DYNAMIC FIRE DAMPERS SHALL BE RATED AND LABELED ACCORDING TO UL 555. DAMPERS SHALL HAVE FIRE RATING OF 1/2 HOURS AND CLOSING RATING IN DUCTS UP TO 4" STATIC PRESSURE CLASS AND MINIMUM 2000 FPM VELOCITY. FIRE DAMPERS SHALL BE CURTAIN TYPE WITH BLADES OUTSIDE AIRSTREAM.

### DUCT INSULATION AND ACOUSTICAL LINING:

FURNISH AND INSTALL INSULATION AND/OR LINING WHERE SHOWN ON PLANS OR SPECIFIED BELOW. ALL DUCT SIZES NOTED ON DRAWINGS ARE AIRWAY SIZES WITHOUT SOUND LINING INCLUDED, ADJUST SHEET METAL SIZES ACCORDINGLY. INSULATION PRODUCTS SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING MANUFACTURERS:

- MANVILLE CORP.
- OWENS-CORNING FIBERGLASS CORP.
- CERTAIN-TEED CORP.
- KNAAF

### A. DUCT SOUND LINING:

- RECTANGULAR SUPPLY, EXHAUST/RETURN AND RELIEF AIR DUCTS: 1" FLEXIBLE GLASS FIBER TYPE, 15 PCF DENSITY, SURFACES EXPOSED TO AIR STREAM SHALL BE COATED TO PREVENT EROSION OF GLASS FIBERS.
- DUCT LINER SHALL HAVE A MAXIMUM FLAME-SPREAD INDEX OF 25 AND SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO ASTM E 84. MEET THE REQUIREMENTS OF NFPA 90A, AND SHALL BE LABELED BY UL.
- ALL DUCTWORK DIMENSIONS SHOWN ON PLANS ARE CLEAR INSIDE DIMENSIONS.

### B. DUCT INSULATION:

- SUPPLY AIR, RETURN AIR, MIXED AIR, EXHAUST AIR AND OUTSIDE AIR PLENUMS: 2" SEMI-RIGID GLASS FIBER, 3 LBS. PER CUFT. DENSITY WITH ALL SERVICE VAPOR BARRIER JACKET.

### TEST AND BALANCE

TEST AND ADJUST ALL MECHANICAL SYSTEMS AND EQUIPMENT TO ASSURE PROPER BALANCE AND OPERATION. PERFORM TESTS IN ACCORDANCE WITH NEBB OR AABC AND ASHRAE STANDARDS. SUBMIT COMPLETED TEST AND BALANCE REPORT TO OWNER'S REPRESENTATIVE. BALANCE CONTRACTOR SHALL BE AN INDEPENDENT CERTIFIED TEST AND BALANCE CONTRACTOR, WITH NEBB OR AABC CERTIFICATION. BALANCE ALL SYSTEMS TO WITHIN 5% OF AIRFLOWS INDICATED ON DRAWINGS, AND REPORT ALL DISCREPANCIES TO HVAC INSTALLER FOR CORRECTION. MARK FINAL BALANCE POSITIONS ON DAMPERS WITH PERMANENT MARKER.

### ENERGY CODE

ALL MECHANICAL SYSTEMS TO MEET THE REQUIREMENTS OF THE 2021 IECC.

DEMAND CONTROL VENTILATION PROVIDED FOR SPACES GREATER THAN 500 SF, AND GREATER THAN 25 PEOPLE PER 1000 SF. OCCUPANT DENSITY AND SERVED BY SYSTEMS WITH AIR SIDE ECONOMIZER, AUTO MODULATING OUTSIDE AIR DAMPER CONTROL, OR DESIGN AIRFLOW GREATER THAN 3,000 CFM.

SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH A MINIMUM OF R-12 INSULATION.

LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS OF SUPPLY AND RETURN DUCTS OPERATING AT A STATIC PRESSURE LESS THAN OR EQUAL TO 2 INCHES WATER GAUGE SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS, MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.

PROVIDE BALANCING DAMPERS AT EACH BRANCH DUCT.

PROVIDE O&M INSTRUCTIONS FOR SYSTEMS AND EQUIPMENT TO THE BUILDING OWNER OR DESIGNATED REPRESENTATIVE. MANUALS TO BE PROVIDED WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.

HVAC SYSTEMS AND EQUIPMENT CAPACITY DOES NOT EXCEED CALCULATED LOADS.

HEATING AND COOLING TO EACH ZONE IS CONTROLLED BY A THERMOSTAT CONTROL. MINIMUM ONE HUMIDITY CONTROL DEVICE PER INSTALL. HUMIDIFICATION/DEHUMIDIFICATION SYSTEM. THERMOSTATIC CONTROLS TO HAVE A 5F DEADBAND. WHERE A ZONE HAS A SEPARATE HEATING AND A SEPARATE COOLING THERMOSTATIC CONTROL LOCATED WITHIN THE ZONE, A LIMIT SWITCH MECHANICAL STOP OR DIRECT DIGITAL CONTROL SYSTEM WITH SOFTWARE PROGRAMMING SHALL BE PROVIDED WITH THE CAPABILITY TO PREVENT THE HEATING SET POINT FROM EXCEEDING THE COOLING SET POINT AND TO MAINTAIN A DEADBAND. EACH ZONE SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM. AUTOMATIC START CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM. THE CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY ADJUSTING THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED OCCUPIED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.

SYSTEM COMMISSIONING: PRIOR TO FINAL INSPECTION, CONTRACTOR MUST PROVIDE A SYSTEM COMMISSIONING REPORT.



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PROJECT MANAGER: JESSICA LIES  
REVIEWER: RYAN DEBARI  
DRAWN BY: LAUREN WELD  
REVISED BY: LAUREL LANG

### MANAGEMENT:

## LINK LOGISTICS

9550 W. HIGGINS ROAD  
ROSEMONT, ILLINOIS 60018



John K. Neville  
AUGUST 06, 2024  
EXPIRES 11/30/2025

### TENANT:

## DEMISED SUITES

1950-2000 USG DRIVE  
LIBERTYVILLE, ILLINOIS 60048

PROJ. NO. 25775-24 SUITE #2000 U.S.F. 97.696  
SUITE #1980 U.S.F. 52.390

SUBMITTED: DATE:

△ PER PERMIT COMMENTS: 08 | 06 | 2024  
FOR PERMIT: 06 | 17 | 2024  
FOR BID: 06 | 17 | 2024  
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DRAWN: 05 | 14 | 2024

SHEET TITLE:

### MECHANICAL SPECIFICATIONS

SHEET NO.:

M-2.0



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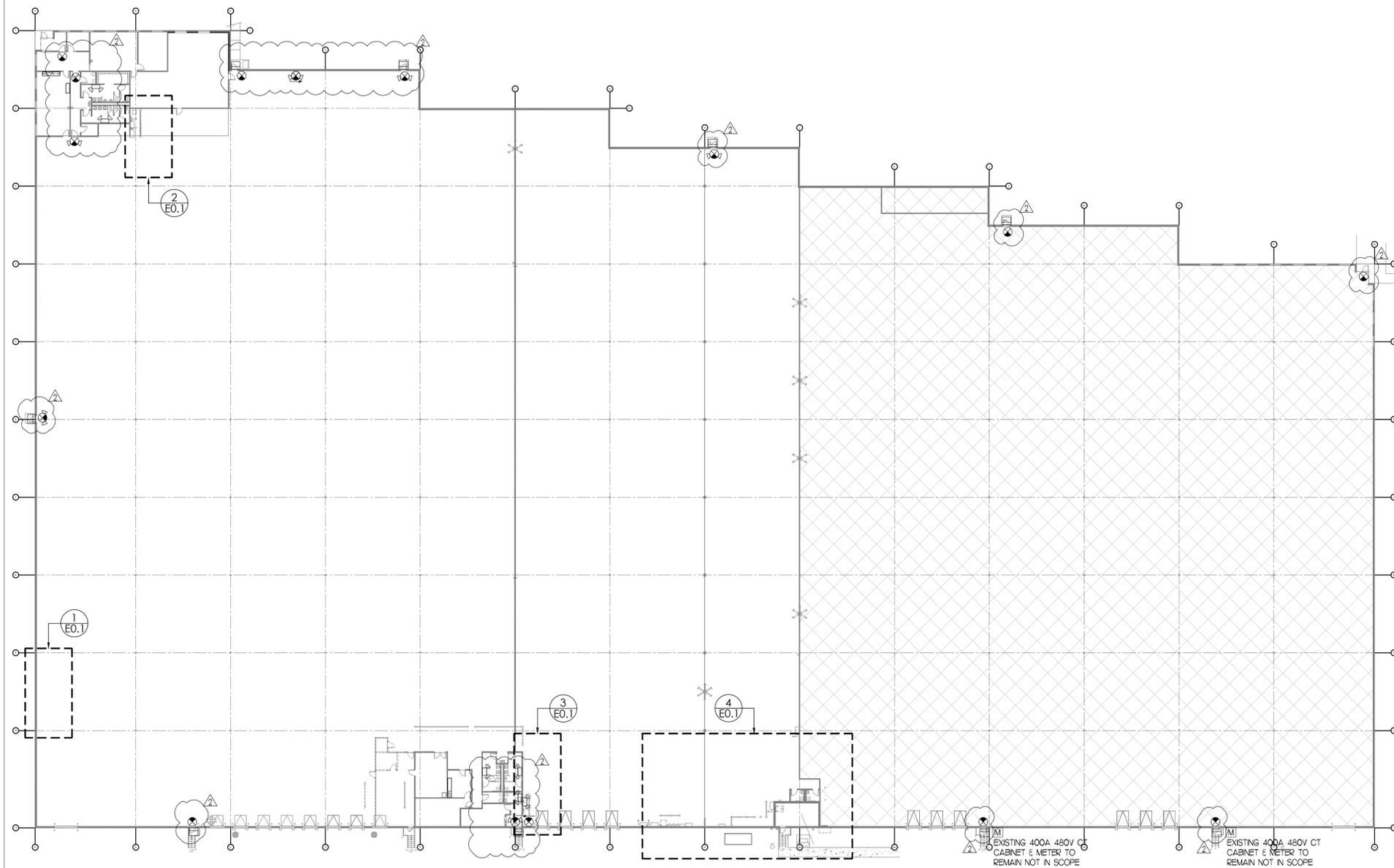
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SHEET TITLE:

OVERALL ELECTRICAL  
DEMOLITION PLANS

SHEET NO.:

E-0.0



OVERALL ELECTRICAL PLAN

SCALE: 1/32"=1'-0"



**NOTE:**  
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EXISTING 400A 480V CT CABINET & METER TO REMAIN NOT IN SCOPE

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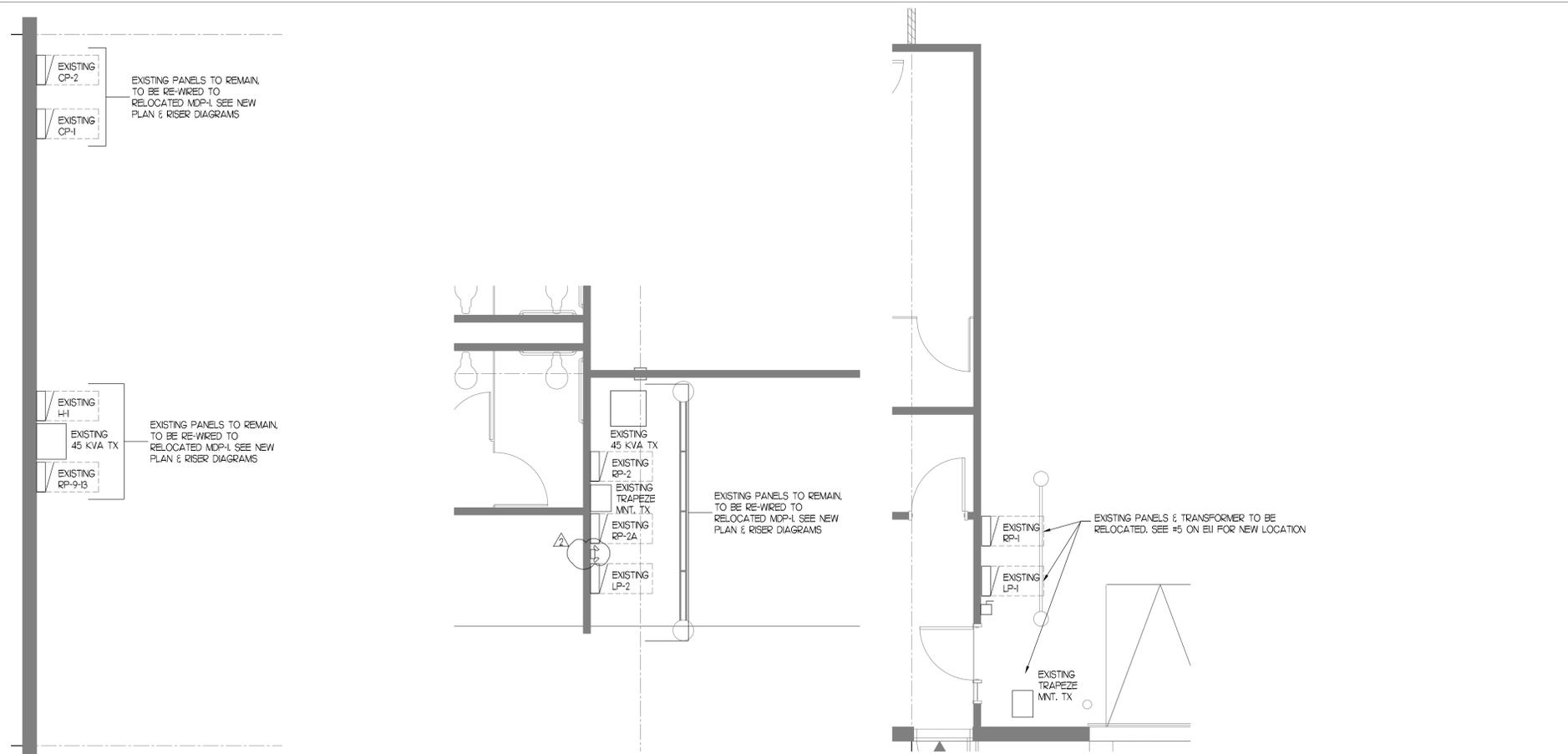
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SHEET TITLE:

ENLARGED ELECTRICAL  
DEMOLITION PLANS

SHEET NO.:

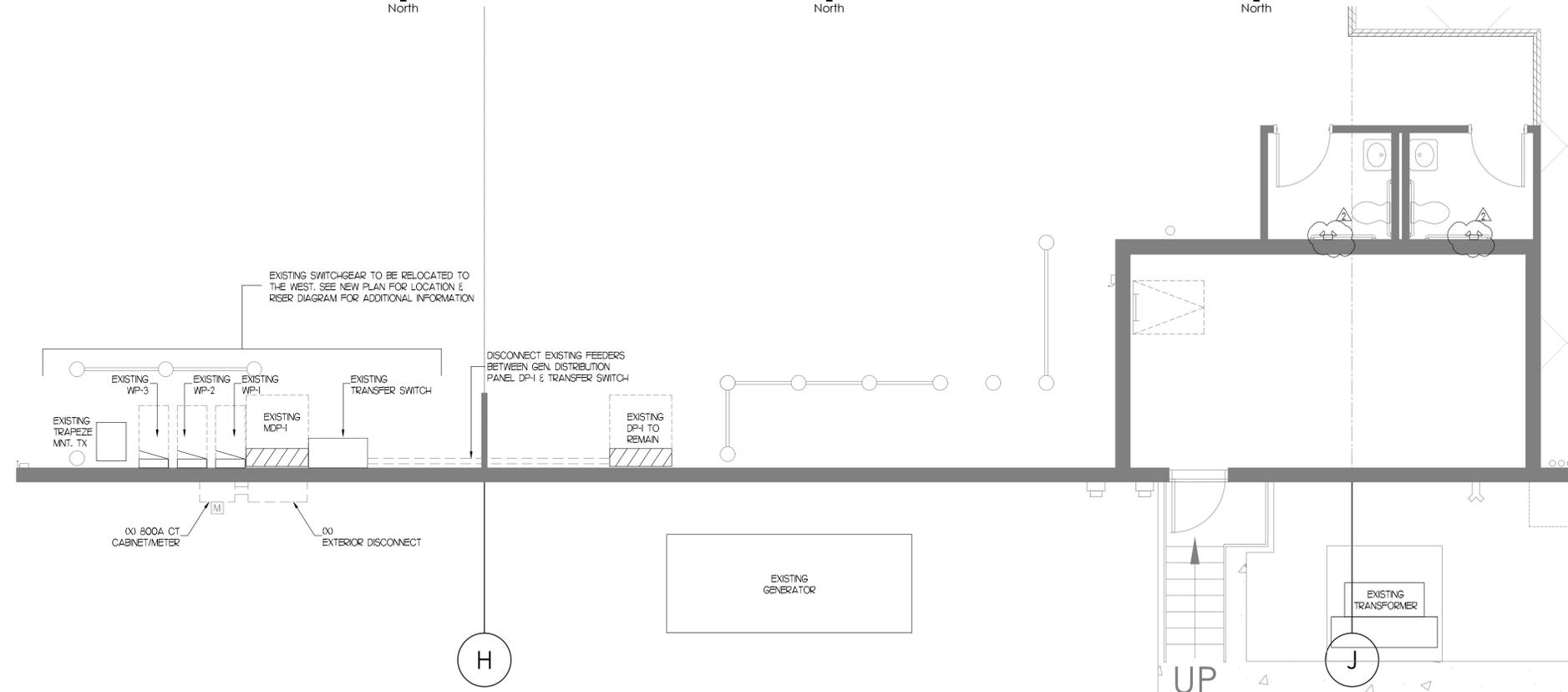
E-0.1



1 ENLARGED ELECTRICAL PLAN  
SCALE: 1/4"=1'-0" North

2 ENLARGED ELECTRICAL PLAN  
SCALE: 1/4"=1'-0" North

3 ENLARGED ELECTRICAL PLAN  
SCALE: 1/4"=1'-0" North



4 ENLARGED ELECTRICAL PLAN

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

SHEET NOTES

- UNLESS NOTED OTHERWISE, ALL SIDELIGHTS, DOORS, FRAMES AND HARDWARE REMOVED AND NOT RELOCATED ARE TO BE PLACED IN BUILDING STOCK. VERIFY STORAGE LOCATION OR DISPOSAL WITH BUILDING MANAGEMENT.
- CONTRACTOR IS **NOT** TO DISABLE ANY EXISTING FIRE SPRINKLER SYSTEM.
- CONTRACTOR IS **NOT** TO DISABLE ANY EXISTING LIFE SAFETY DEVICE WITHOUT PRIOR NOTIFICATION TO THE VILLAGE/CITY. THIS INCLUDES FIRE HORNS AND STROBES, BATTERY PACKS, AND 24 HOUR LIGHT FIXTURES.
- ALL FINISHES TO BE BUILDING STANDARD, SELECTED BY THE CLIENT, UNLESS OTHERWISE NOTED.
- CONTRACTOR IS TO REPAIR ANY PENETRATIONS THROUGH RATED WALLS, FLOOR AND/OR DECK WITH CONSTRUCTION TYPES AND MATERIALS WHICH MATCH EXISTING.
- CONTRACTOR IS TO PROVIDE TACTILE EXIT SIGNS ADJACENT TO THE EXIT DISCHARGE DOORS. REFER TO SHEET "N-2" FOR MORE INFORMATION.
- CONTRACTOR SHALL MAINTAIN EMERGENCY LIGHTING AND EXIT SIGNS IN WORK AREAS AND THE MEANS OF EGRESS DURING DEMOLITION AND CONSTRUCTION.
- ALL EXIT LIGHTS ARE TO BE NEW LED TYPE AND MEET THE CURRENT INTERNATIONAL ENERGY CONSERVATION CODE (IECC). CONTRACTOR SHALL VERIFY IF EXISTING EXIT SIGNS, SHOWN TO BE RE-USED, ARE LED TYPE. IF NOT, CONTRACTOR SHALL REPLACE, AS REQUIRED.
- EMERGENCY, EXIT AND EGRESS LIGHTING IS FOR CONCEPTUAL LAYOUT ONLY. EXACT LOCATION OF EXISTING LIGHTING AND DEVICES MAY VARY. CONTRACTOR IS TO VERIFY THAT THERE IS ADEQUATE EMERGENCY LIGHTING AND SAFETY DEVICES THROUGHOUT ENTIRE SUITE.**

KEYNOTES

- CONTRACTOR SHALL CUT AN OPENING TO MATCH ADJACENT OPENINGS IN THE CENTER OF THE EXISTING PRE-CAST CONCRETE WALL PANEL, FOR A NEW OVERHEAD DOOR. REFER TO STRUCTURAL DRAWINGS BY OTHERS FOR FURTHER INFORMATION ON ANY ADDITIONAL SUPPORT THAT MAY BE REQUIRED. REMOVE ANY EXISTING CONDUIT, J-BOXES, RECEPTACLES, AS REQUIRED, TO ACCOMMODATE NEW OPENINGS. RE-ROUTE CONDUIT AROUND NEW OPENING(S) AS NECESSARY.
- OMIT.
- CONTRACTOR IS TO REMOVE JUNCTION BOXES/OUTLET, CONDUIT AND WIRING BACK TO SOURCE.
- CONTRACTOR IS TO CAREFULLY REMOVE EXISTING CEILING FAN AND STORE ON SITE FOR POSSIBLE FUTURE RELOCATION.
- 8. OMIT.
- CONTRACTOR IS TO IS TO PROVIDE A NEW OVERHEAD DOOR AND ALL ASSOCIATED EQUIPMENT, OPENERS, CONTROLS, ETC. TO MATCH EXISTING. PROVIDE BOLLARDS ON INSIDE AND DOCK BUMPER/SEALS AND VEHICLE RESTRAINTS ON THE OUTSIDE. COORDINATE EXACT SIZE AND SPECIFICATIONS WITH CLIENT PRIOR TO CONSTRUCTION.
- 10-11. OMIT.
- CONTRACTOR IS TO SEPARATE EXISTING ELECTRICAL SERVICE/METER AND PROVIDE NEW FOR SUITE #2000 AND REWORK EXISTING FOR REMAINDER OF SPACE.
- PRICE AS ALTERNATE:**  
CONTRACTOR IS TO REWORK EXISTING ELECTRICAL SERVICE/METER FOR REMAINDER SUITES # 1980 & # 1950, AS REQUIRED.
- IN WAREHOUSE AREA, ALL LIGHTING IS TO REMAIN. CONNECT EXISTING LIGHT FIXTURES TO NEW SERVICE/METER SERVING THE SUITE.
- OMIT.
- CONTRACTOR IS TO REPLACE EXISTING LIGHT FIXTURES WITH NEW LED LIGHT FIXTURES IN SAME LOCATIONS OF EXISTING. COORDINATE SPECIFICATION WITH CLIENT PRIOR TO INSTALLATION. NO LIGHTING LAYOUT CHANGE REQUIRED.
- OMIT.
- CONTRACTOR IS PROVIDE A NEW 1 HOUR RATED WALL UP TO DECK, WHERE ILLUSTRATED ON PLAN, REMOVE ANY ELECTRICAL, REWORK ANY FIRE SPRINKLER SHUT OFF AND REMOVE ANY CEILING FANS TO ACCOMMODATE NEW WALL CONSTRUCTION.
- PRICE AS ALTERNATE:**  
CONTRACTOR IS PROVIDE A NEW 1 HOUR RATED WALL UP TO DECK, WHERE ILLUSTRATED ON PLAN, REMOVE ANY ELECTRICAL, REWORK ANY FIRE SPRINKLER SHUT OFF AND REMOVE ANY CEILING FANS TO ACCOMMODATE NEW WALL CONSTRUCTION.
- 18-21. OMIT.
- CONTRACTOR RESPONSIBLE FOR RE-WIRING ALL EQUIPMENT WITHIN NEW TENANT SPACE BETWEEN NEW DEMISING WALLS TO NEW TENANT PANEL P-1 AND P-2, INCLUDING, BUT NOT LIMITED TO: MAKE-UP AIR UNIT (SEE PLAN FOR LOCATION), EXISTING HIGH-BAY LIGHTS, EXIT SIGNS, OVERHEAD DOOR-OPENERS, RECEPTACLES & EXIT/EM LIGHTS AND SIGNAGE.



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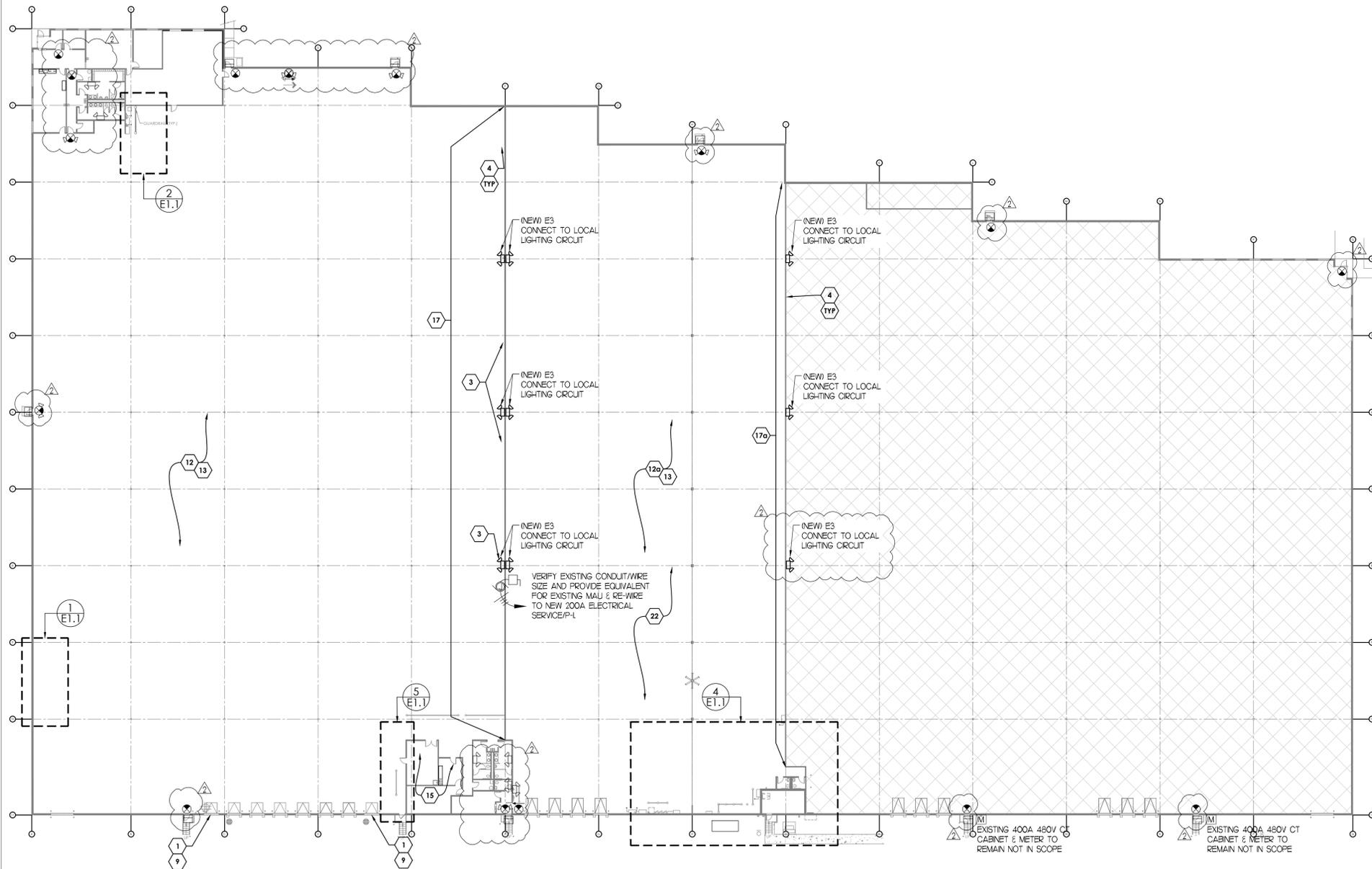
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OVERALL ELECTRICAL PLANS & NOTES

SHEET NO.: E-1.0



OVERALL ELECTRICAL PLAN

SCALE: 1/32"=1'-0"



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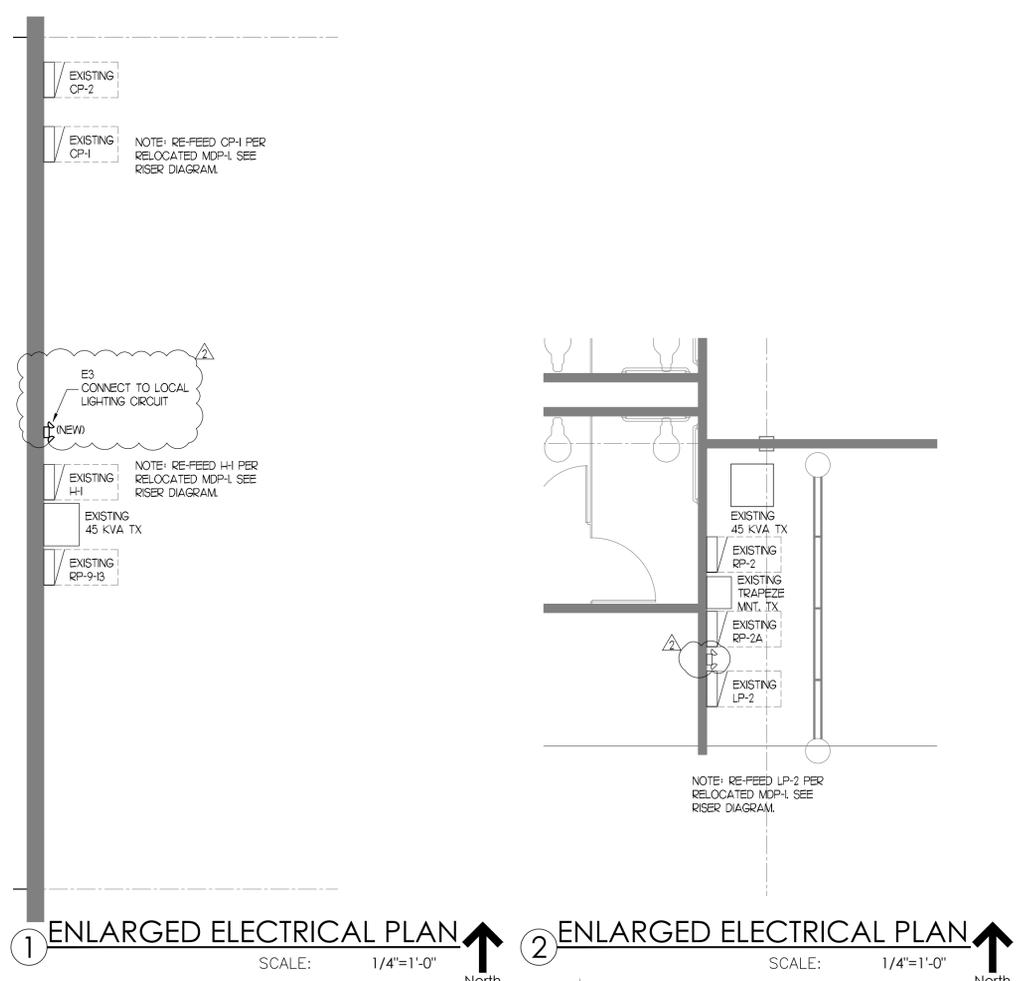
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ENLARGED ELECTRICAL PLANS

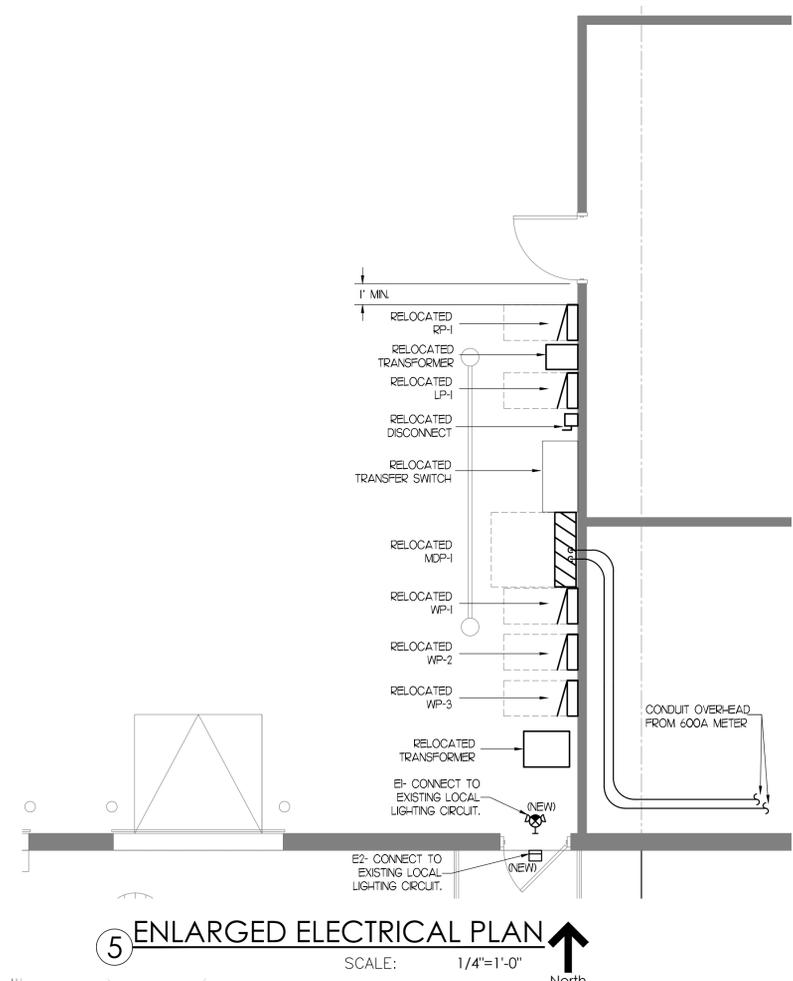
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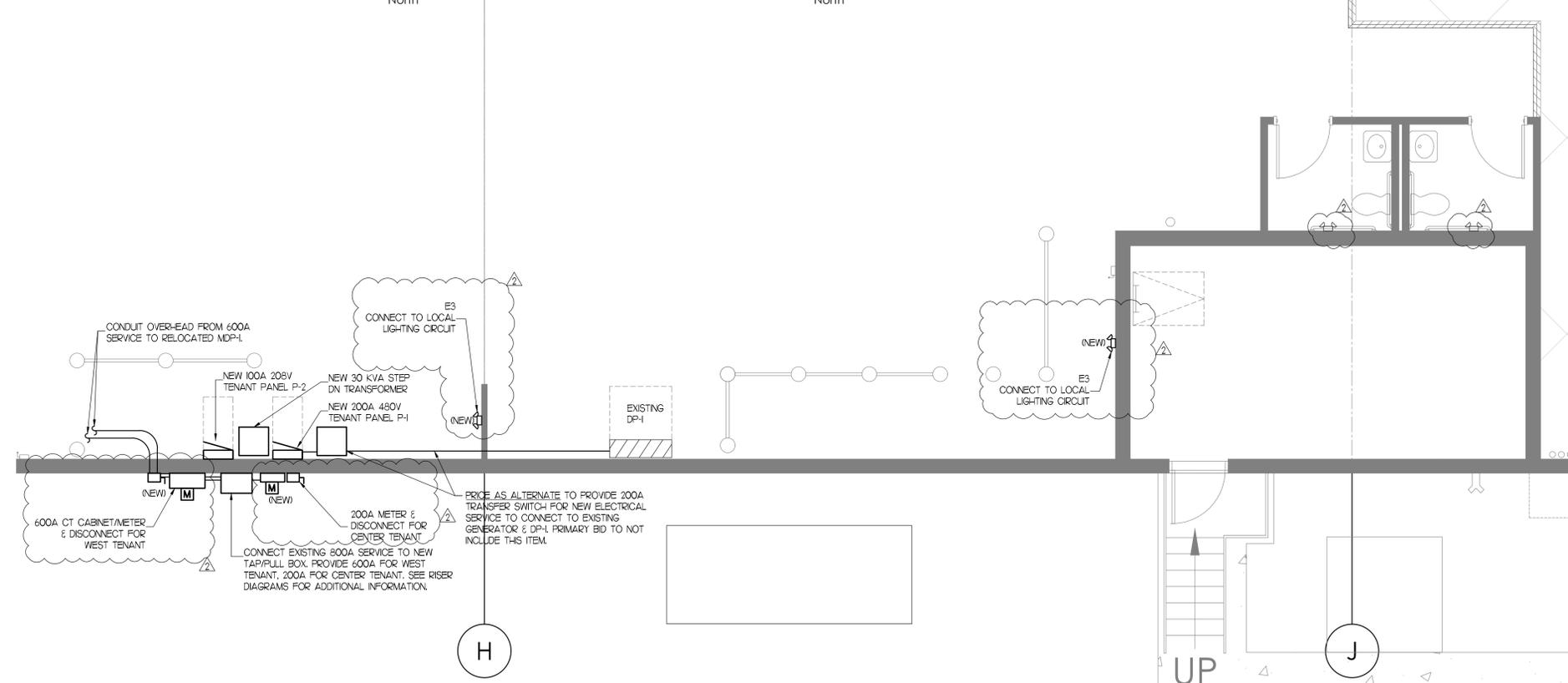


1 ENLARGED ELECTRICAL PLAN SCALE: 1/4"=1'-0" North

2 ENLARGED ELECTRICAL PLAN SCALE: 1/4"=1'-0" North



5 ENLARGED ELECTRICAL PLAN SCALE: 1/4"=1'-0" North



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## LED LIGHT FIXTURE SCHEDULE

FXLT. NO.	DESCRIPTION	MANUFACTURER & MODEL NUMBER	VOLTAGE	LAMP QTY. & TYPE	REMARKS
E1	COMBINATION EXIT/EM LIGHT	LITHONIA LHQM LED	MULTI-VOLT	4.3W LED	6" TALL THERMOPLASTIC HOUSING, INTERCHANGEABLE FACEPLATE, TWIN LED LAMP HEADS, INTEGRATED TEST SWITCH-PILOT LIGHT, SHORT CIRCUIT PROTECTION, 90-MINUTE BATTERY LIFE.
E2	EXTERIOR EMERGENCY LIGHT	LITHONIA AFF-W-FWD	MULTI-VOLT	10.8W LED	DI-CAST ALUMINUM HOUSING, FORWARD THROW LED LAMPS, INTEGRATED TEST SWITCH-PILOT LIGHT, SHORT CIRCUIT PROTECTION, 90-MINUTE BATTERY LIFE.
E3	EMERGENCY LIGHT	LITHONIA INDL SP2200L UVOLT	MULTI-VOLT	LED	GRAY THERMOPLASTIC HOUSING, IMPACT RESISTANT, SCRATCH-RESISTANT AND CORROSION PROOF, 12 HIGH-PERFORMANCE LED'S RATED AT 22WATTS AND DELIVERS A TOTAL OF 2,200 LUMEN. WET LOCATION LISTED.

NOTE: ALL LAMPS TO BE 3500K, UNLESS OTHERWISE NOTED.

## ELECTRICAL SYMBOL LIST

	WALL MOUNTED LED EMERGENCY LIGHT WITH BATTERY BACK-UP
	CEILING MOUNTED LED EMERGENCY LIGHT WITH BATTERY BACK-UP
	WALL MOUNTED EXTERIOR EMERGENCY LIGHT WITH BATTERY BACK-UP
	LED EXIT SIGN WITH BATTERY BACK-UP - CEILING MOUNTED - HATCHED REGION INDICATES EXIT FACE ORIENTATION
	LED EXIT SIGN WITH BATTERY BACK-UP - WALL MOUNTED - HATCHED REGION INDICATES EXIT FACE ORIENTATION
	COMBINATION EXIT FIXTURE
	SINGLE POLE SWITCH
	SINGLE POLE SWITCH - THREE (3) WAY
	SINGLE POLE SWITCH - LETTER INDICATES SWITCH CONTROL
	DIMMING SWITCH
	WALL SWITCH WITH OCCUPANCY SENSOR
	WALL SWITCH WITH VACANCY SENSOR
	WALL SWITCH WITH DIMMING VACANCY SENSOR (HEAT/MOTION)
	CEILING MOUNT OCCUPANCY SENSOR
	LIGHTING CONTROL TIME CLOCK
	LIGHTING CONTROL PHOTOCELL
	DUPLEX RECEPTACLE
	DEDICATED DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE - SWITCHED
	DOUBLE DUPLEX RECEPTACLE
	DEDICATED DOUBLE DUPLEX RECEPTACLE (QUAD)
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
	DUPLEX RECEPTACLE - GFCI TYPE
	TAMPER PROOF DUPLEX RECEPTACLE
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - GFCI TYPE
	DUPLEX RECEPTACLE MOUNTED IN FLOOR
	ELECTRICAL J-BOX, CIRCUIT & CONNECTION TO EQUIPMENT/DEVICE
	ELECTRICAL BRANCH PANEL
	ELECTRICAL DISTRIBUTION PANEL
	CONNECTION TO MOTOR EQUIPMENT - SEE EQUIPMENT CONNECTION SCHEDULE
	NON-FUSED DISCONNECT SWITCH - SEE EQUIPMENT CONNECTION SCHEDULE
	VOICE/DATA ROUGH-IN W/ 1" CONDUIT STUBBED TO ABOVE CEILING ROUGH-IN ONLY (WIRING BY OTHERS)
	VOICE/DATA MOUNTED IN A WIREMOLD (METALLIC/NONMETALLIC) RACEWAY DEVICE BOX, ROUGH-IN W/ 1" CONDUIT STUBBED TO ABOVE CEILING
	COUNTDOWN TIMER - ROUGH-IN ONLY (WIRING BY OTHERS)
	TELEVISION OUTLET - ROUGH-IN ONLY (WIRING BY OTHERS)
	CARD READER, ROUGH-IN WITH 1" CONDUIT STUBBED TO ABOVE CEILING ROUGH-IN ONLY (WIRING AND DEVICE BY OTHERS)
	ELECTRIC STRIKE, ROUGH-IN WITH 1" CONDUIT STUBBED INTO DOOR FRAME FOR ACCESS (WIRING AND DEVICE BY OTHERS)
	SECURITY KEY PAD WALL MOUNTED, ROUGH-IN WITH 1" CONDUIT STUBBED INTO WALL (WIRING AND DEVICE BY OTHERS)
	ELECTRIC CONTRACTOR, ROUGH-IN WITH 1" CONDUIT STUBBED INTO WALL (WIRING AND DEVICE BY OTHERS)

NOTE: NOT ALL SYMBOLS IN THIS LIST MAY BE REFERENCED ON PLANS.

## MOUNTING HEIGHTS FOR ELECTRICAL DEVICES

DEVICE	MOUNTING HEIGHTS
LIGHT SWITCHES, WALL MOUNTED OCCUPANCY SENSORS	48" TO CENTERLINE OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20'-25'D.
DISCONNECT SWITCHES, MOTOR STARTERS, MOTOR PUSH BUTTON STATIONS	60" TO CENTERLINE.
WALL MOUNTED EXIT SIGNS	90" TO CENTERLINE OF SIGN OR CENTERED IN WALL AREA BETWEEN TOP OF DOOR AND CEILING.
CEILING MOUNTED EXIT SIGNS	80" TO BOTTOM FIXTURE.
RECEPTACLES	16" TO BOTTOM OF BOX. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20'-25'D.
SPECIAL OUTLETS OR RECEPTACLES	16" TO BOTTOM OF BOX OR AS NOTED ON DRAWINGS. EXCEPTION: 44" MAXIMUM TO TOP ABOVE COUNTERS WHICH ARE 20'-25'D.
DATA/COMMUNICATION OR TELEPHONE OUTLETS	16" TO BOTTOM OF BOX.
FIRE ALARM MANUAL PULL STATIONS	48" TO CENTERLINE OF BOX - NOT MORE THAN 5'-0" FROM EXIT.
FIRE ALARM AUDIBLE ONLY DEVICE	NOT LESS THAN 90" TO TOP OR 6' BELOW CEILING, WHICH EVER IS HIGHER.
FIRE ALARM VISUAL ONLY DEVICE OR A COMBINATION AUDIBLE AND VISUAL DEVICE	80" TO BOTTOM OF DEVICE OR NOT MORE THAN 96" TO TOP.
WALL MOUNTED REMOTE INDICATOR LIGHT	80" TO CENTERLINE OF DEVICE OR 6' BELOW CEILING, WHICHEVER IS LOWER.

**NOTES:**

- ALL DIMENSIONS ARE CONSIDERED FROM FINISHED FLOOR AND, UNLESS NOTED OTHERWISE, SHALL NOT VARY. RAISED FLOORS SHALL BE CONSIDERED FINISHED FLOOR.
- ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL DETAILS AND MAY BE ADJUSTED TO CONFORM WITH ARCHITECTURAL REQUIREMENTS AS LONG AS NO CODE RESTRICTION IS VIOLATED.
- OUTLETS INSTALLED LOWER THAN 5' AFF (FORWARD REACH) AND 9' AFF (SIDE REACH) ARE IN VIOLATION OF ADA.

**SPECIAL NOTES:**

- EXIT SIGNS SHALL NOT BE INSTALLED SO THAT IT BLOCKS FIRE ALARM VISUAL DEVICES.
- FOR LIGHTING FIXTURES MOUNTING HEIGHTS SEE SCHEDULE AND DRAWINGS.

## WIRE SIZING TABLE

FOR MULTI-VOLT-20A BRANCH CIRCUITS ONLY (UNLESS NOTED OTHERWISE)		
IF DISTANCE (A+B) IN FEET IS: (SEE DIAGRAM AT RIGHT)	USE COPPER WIRE IN METALLIC CONDUIT, AWG SIZE AS FOLLOWS ON ENTIRE CIRCUIT AND SIZE CONDUIT ACCORDINGLY.	
0' TO 45'	#12 AWG (MIN)	
45' TO 72'	#10 AWG	
72' TO 100'	#8 AWG	
100' TO 180'	#6 AWG (MAX)	

## ELECTRICAL DEMOLITION NOTES:

- DISCONNECT AND REMOVE ALL EXISTING LIGHT FIXTURES ALONG AREA OF NEW PARTITIONS. DISCONNECT AND REMOVE EXISTING FLEXIBLE WHP BACK TO JUNCTION BOX. REMOVE ALL UNUSED WIRING.
- WHERE EXISTING WALLS ARE TO BE REMOVED, DISCONNECT AND REMOVE ALL EXISTING JUNCTION BOXES, CONDUIT AND WIRING. REMOVE ALL UNUSED WIRING.

## FIRE ALARM SYSTEM

FIRE ALARM SYSTEM IS TO BE DONE BY PROJECT FIRE ALARM CONTRACTOR, SELECTED BY OWNER AND BE DONE UNDER A SEPARATE PERMIT.

## ELECTRICAL NOTES:

### 1. CODES

THE WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL, MUNICIPAL, AND NATIONAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS THE CONSTRUCTION DOCUMENTS SHALL GOVERN. HOWEVER, THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE LOCAL CODE OR REGULATION.

### 2. DRAWINGS AND SPECIFICATIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING AND COMPLYING WITH BOTH THE DRAWINGS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN THE DRAWINGS, NOTES, SPECIFICATIONS OR CODES, THE REFERENCE WHICH PROVIDES THE MORE COMPLETE OR HIGHER STANDARD SHALL PREVAIL.

### 3. INTERPRETATION OF THE DOCUMENTS

CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING MEASUREMENTS AND CONDITIONS UNDER WHICH THIS INSTALLATION IS TO BE MADE. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS, BETWEEN DRAWINGS OR SPECIFICATION, OR BETWEEN SECTIONS OF THE SPECIFICATION, THE MATTER SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS A COMPLETE, READY TO USE INSTALLATION. IF NOT STATED IN THE PROPOSAL, IT WILL NOT BE CONSIDERED EXTRA.

### 4. ELECTRICAL DRAWINGS

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL DOORS, WALLS, FURNITURE, EQUIPMENT, ETC. THE LOCATION OF RACEWAY SYSTEM COMPONENTS IS SCHEMATIC, THE EXACT LOCATION OF RACEWAY SYSTEM COMPONENTS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR SHALL CONFIRM THE DIMENSIONS OF THE ACTUAL EQUIPMENT TO BE SUPPLIED FOR THIS PROJECT, AND VERIFY CLEARANCES AND ROUGH-INS PRIOR TO STARTING WORK.

### 5. SITE EXAMINATION

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE EXISTING CONDITIONS. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE OR FOR LATER CLAIMS FOR LABOR, EQUIPMENT, MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN SITE EXAMINATION BEEN MADE.

### 6. COORDINATION WITH OTHER TRADES

THE ELECTRICAL CONTRACTOR SHALL OBTAIN A COMPLETE SET OF ARCHITECTURAL AND ENGINEERING DOCUMENTS AND COORDINATE WITH MECHANICAL, PLUMBING, ARCHITECTURAL, AND OTHER TRADES FOR EXACT DIMENSIONS, CLEARANCES, ROUGH-IN LOCATIONS, AND OTHER ADDITIONAL SCOPE OF WORK THAT MAY NOT BE SHOWN ON THE ELECTRICAL PLANS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL 120 VOLT (AND HIGHER) AC POWER TO OTHER TRADES EQUIPMENT AND HARDWARE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONTROLS, FIRE AND SECURITY SYSTEMS, MOTORIZED DOORS, DAMPERS, LIFTS, AND OTHER SYSTEMS, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL PLANS. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL SAFETY DISCONNECT SWITCHES TO MECHANICAL EQUIPMENT.

### 7. PERMITS, APPLICATIONS AND RELEASES

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, APPLICATIONS, RELEASES AND FEES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES FOR THE EXECUTION OF THIS WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

### 8. FIRE STOPPING

ALL PENETRATIONS IN WALL, FLOOR OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH AN INTUMESCENT FIRE STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. FIRE STOPPING PRODUCTS SHALL BE MANUFACTURED BY 3M CO.

### 9. OWNER FURNISHED EQUIPMENT

EQUIPMENT THAT WILL BE FURNISHED BY THE OWNER WILL BE INDICATED ON A SEPARATE SCHEDULE. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR DELIVERY SCHEDULES. THE CONTRACTOR IS TO ASSUME THAT ON SITE STORAGE MAY NOT BE AVAILABLE WHEN COORDINATING DELIVERY OF EQUIPMENT. THE CONTRACTOR, IN COORDINATION WITH THE OWNER'S REPRESENTATIVE, WILL INSPECT THE DELIVERY FOR ACCURACY AND SHIPMENT DAMAGE AND ACCEPTING THE EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO STORE, PROTECT AND ULTIMATELY INSTALL THE EQUIPMENT.

### 10. EQUIPMENT

ALL MATERIALS AND EQUIPMENT USED IN THIS INSTALLATION SHALL BE NEW, AND HAVE THE APPROPRIATE UL LISTING AND LABEL.

### 11. MISCELLANEOUS SUPPORTING MEMBERS

ALL ANGLES CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, RODS, ETC. REQUIRED TO SUPPORT LIGHT FIXTURE, CONDUIT, RACEWAY, LADDER TRAY, OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

### 12. PANEL BOARDS

ALL PANEL BOARDS SHALL BE PROVIDED WITH TYPEWRITTEN DIRECTORIES. SEE PANEL SCHEDULES ON THE DRAWINGS FOR COMPLETE IDENTIFICATION AND LABELING REQUIREMENTS. PANEL DIRECTORIES SHALL HAVE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. ADDITIONALLY, THE PANEL LABEL SHALL INCLUDE THE SOURCE OF FEED.

### 13. SAFETY

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

### 14. EQUIPMENT CONNECTIONS

PROVIDE FINAL CONNECTIONS FOR ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS AND FOR ALL OWNER FURNISHED EQUIPMENT. PROVIDE A FLEXIBLE LIQUID TIGHT CONNECTION TO ALL VIBRATION PRODUCING EQUIPMENT.

### 15. UTILITY POWER COORDINATION

THE CONTRACTOR SHALL PERFORM ALL COORDINATION AND SCHEDULING OF LOCAL UTILITY POWER COMPANY WORK EFFORT. ANY EXCESS FACILITIES CHARGES WILL BE PAID BY THE OWNER WITHOUT MARK-UP. CONTRACTOR SHALL WORK REQUIRED FOR THE NEW SERVICE.

### 16. CABLING

BRANCH CIRCUITS TO RECEPTACLES, LIGHTING AND MISC. SMALL LOADS (15 OR 20 AMP CIRCUITS), UNLESS SPECIFICALLY NOTED OTHERWISE, SHALL BE 2 - #12, 1 - #12 GND, 3/4" C. A SEPARATE NEUTRAL AND GROUND SHALL BE RUN FOR EACH CIRCUIT. SEE NOTE BELOW FOR ADDITIONAL REQUIREMENTS.

GENERAL BRANCH CIRCUITS SHALL BE PERMITTED AS MULTIWIRE CIRCUITS. ALL CONDUCTORS OF A MULTIWIRE BRANCH CIRCUIT SHALL ORIGINATE FROM THE SAME PANELBOARD OR SIMILAR DISTRIBUTION EQUIPMENT.

EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUND CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.

### 17. FIRE ALARM

ALL FIRE ALARM DEVICES ARE TO BE DESIGN AND INSTALLED BY THE FIRE ALARM CONTRACTOR.

### 18. EXIT / EM LIGHTING

BRANCH CIRCUIT FEEDING EMERGENCY LIGHTING SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES.

### 19. ARC-FLASH HAZARD

ARC-FLASH HAZARD WARNING MARKINGS SHALL BE PROVIDED ON ELECTRICAL EQUIPMENT LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS IN ACCORDANCE WITH (NEC 106).

### 20. TEMPORARY LIGHTING, POWER, FIRE, AND SAFETY

PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED IN AREAS UNDERGOING WORK DURING CONSTRUCTION. FURNISH AND INSTALL ONE OSHA APPROVED PIGTAIL SOCKET WITH 60-WATT LAMP FOR EVERY 500 SQUARE FEET OF FLOOR SPACE AND A MINIMUM 1 PER ROOM. THE TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL.

FURNISH AND INSTALL POWER OUTLETS TO A TOTAL ONE FOR EVERY 2000 SQUARE FEET OR PART THEREOF OF FLOOR AREA AND THESE SHALL BE 15 AMP, SINGLE PHASE RECEPTACLES FOR EITHER 110 OR 220 VOLTS AS DIRECTED BY THE GENERAL CONTRACTOR. COORDINATE FOR ADDITIONAL TEMPORARY POWER REQUIREMENTS WITH OTHER TRADES AND PROVIDE AN ADEQUATE INSTALLATION.

COMPLY WITH NFPA 241 FOR SAFEGUARDING DURING CONSTRUCTION AND ALTERATION OPERATIONS. IN ADDITION, ANY OPENINGS IN FIRE RATED SEPARATIONS BETWEEN OCCUPIED AND UNOCCUPIED (OR OPERATIONAL AND NON-OPERATIONAL) AREAS SHALL BE SEALED AT THE END OF EACH WORK DAY WITH AN APPROPRIATE FIRE RATED ENCLOSURE OR SEALANT. DO NOT COMPROMISE EXISTING SECURITY OR FIRE ALARM SYSTEMS SERVING THE OCCUPIED OR OPERATIONAL AREAS.

### 21. AUTOMATIC RECEPTACLE CONTROL C405.11

APPLIES TO ≥ 50% OF RECEPTACLES IN ENCLOSED OFFICES, CONFERENCE ROOMS, COPY/PRINT ROOMS, BREAKROOMS, CLASSROOMS, INDIVIDUAL WORKSTATIONS AND 25% OF FEEDERS FOR MODULAR FURNITURE NOT ON PLANS

- AUTO OFF BY EITHER:
  - TIME SCHEDULE, ≤ 2 HOUR OVERRIDE, CONTROL AREA ≤ 5,000FT<sup>2</sup>
  - OCCUPANCY SENSOR WITH 20 MINUTE OFF DELAY
  - AUTOMATED SIGNAL THAT SHALL AUTO OFF RECEPTACLES WITHIN 20 MINUTES OF OCCUPANTS LEAVING.
- EITHER TOP DUPLEX RECEPTACLE CONTROLLED OR CONTROLLED RECEPTACLE WITHIN 12 INCHES OF UNCONTROLLED RECEPTACLE
- CONTROLLED RECEPTACLES PERMANENTLY MARKED IN ACCORDANCE WITH NFPA 70 PLUG IN CONTROLLED POWER STRIPS AND DEVICES DO NOT COMPLY.

## LIGHTING SWITCH NOTES

3	3-WAY SWITCH
D	DIMMER SWITCH
VS	VACANCY SENSING DEVICE (HEAT/MOTION)
VSD	DIMMING VACANCY SENSING DEVICE (HEAT/MOTION)
OS	OCCUPANT SENSING DEVICE
OSD	OCCUPANT SENSING DEVICE (HEAT/MOTION)

## DEMOLITION NOTES

(E) OR (EXIST)	EXISTING TO REMAIN
(O) OR (DEMO)	EXISTING TO BE REMOVED
(R) OR (RE)	RELOCATED



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John K. Neville  
AUGUST 06, 2024  
EXPIRES 11/30/2025

### TENANT:

## DEMISED SUITES

1950-2000 USG DRIVE  
LIBERTYVILLE, ILLINOIS 60048

PROJ. NO. 25775-24  
SUBMITTED: 08/06/2024

SUITE #2000 U.S.F. 97,696  
SUITE #1980 U.S.F. 52,390

DATE: 08/06/2024

FOR PERMIT COMMENTS: 08/06/2024

FOR BID: 06/17/2024

PER TENANT REVIEW: 06/11/2024

FOR APPROVAL: 05/20/2024

DRAWN: 05/14/2024

SHEET TITLE:

ELECTRICAL SCHEDULES & NOTES

SHEET NO.:

E-2.0

DISTRIBUTION PANEL SCHEDULE										PANEL		EXISTING DP-1		
										JOB NO.		2000 USG DRIVE		
										MAIN BUS		1200 AMPS		
										VOLTAGE		277/480 V		
										PHASE		3 P		
										WIRE		4 W		
										AIC RATING		AMPS		
CKT. NO.	BREAKER POLE	CLASS	DESCRIPTION	LOAD IN KVA			CKT. NO.	BREAKER POLE	CLASS	DESCRIPTION	LOAD IN KVA			
1			SPACE	LTG	REC	MTR	2			SPACE	LTG	REC	MTR	
3			SPACE				4			SPACE				
5			SPACE				6			SPACE				
7	3	400	TRANSFER SWITCH 2				8	3	200	TRANSFER SWITCH 4				
9	3	400	TRANSFER SWITCH 3				10	3	600	TRANSFER SWITCH 1				
											P-P VOLTS		480	
											CONNECTED LOAD - PHASE A		0 0 0	
											CONNECTED LOAD - PHASE B		0 0 0	
											CONNECTED LOAD - PHASE C		0 0 0	
											TOTALS		0.0 0.0 0.0	
											TOTAL CONNECTED LOAD (KVA)		0.0	
											PHASE LOADING		PH A PH B PH C	
											CONNECTED LOAD (KVA)		0.0 0.0 0.0	
											CONNECTED LOAD (AMPS)		0.0 0.0 0.0	
NOTES											GENERATOR TRANSFER SWITCH DISTRIBUTION PANEL			

DISTRIBUTION PANEL SCHEDULE										PANEL		EXISTING MDP-1 (1 OF 3)		
										JOB NO.		2000 USG DRIVE		
										MAIN BUS		600 AMPS		
										VOLTAGE		277/480 V		
										PHASE		3 P		
										WIRE		4 W		
										AIC RATING		AMPS		
CKT. NO.	BREAKER POLE	CLASS	DESCRIPTION	LOAD IN KVA			CKT. NO.	BREAKER POLE	CLASS	DESCRIPTION	LOAD IN KVA			
1	3		SPACE	LTG	REC	MTR	2	3	100	CONVEYOR	LTG	REC	MTR	
3	3	100	TRANSFORMER 1				4	3	200	WP2				
5	3	100	LP2				6	3	100	LP1				
7	3	100	X-FORMER G8				8	3	200	WP1				
9	3	400	CR-182											
											P-P VOLTS		480	
											CONNECTED LOAD - PHASE A		0 0 0	
											CONNECTED LOAD - PHASE B		0 0 0	
											CONNECTED LOAD - PHASE C		0 0 0	
											TOTALS		0.0 0.0 0.0	
											TOTAL CONNECTED LOAD (KVA)		0.0	
											PHASE LOADING		PH A PH B PH C	
											CONNECTED LOAD (KVA)		0.0 0.0 0.0	
											CONNECTED LOAD (AMPS)		0.0 0.0 0.0	
NOTES											MAIN DISTRIBUTION PANEL FOR WESTERN HALF OF BUILDING (ELECTRICAL SERVICE 1 OF 3 TOTAL)			

PANEL SCHEDULE										PANEL		NEW PANEL P-1		
										JOB NO.		2000 USG DRIVE		
										MAIN BUS		200 AMPS		
										VOLTAGE		277/480 V		
										PHASE		3 P		
										WIRE		4 W		
										AIC RATING		22K AMPS		
CKT. NO.	BREAKER POLE	CLASS	DESCRIPTION	LOAD IN KVA			CKT. NO.	BREAKER POLE	CLASS	DESCRIPTION	LOAD IN KVA			
1			SPACE	LTG	REC	MTR	2	1	20	HIGH BAY LED LIGHTS	LTG	REC	MTR	
3			SPACE				4	1	20	HIGH BAY LED LIGHTS				
5			SPACE				6	1	20	HIGH BAY LED LIGHTS				
7			SPACE				8	1	20	HIGH BAY LED LIGHTS				
9			SPACE				10	1	20	HIGH BAY LED LIGHTS				
11			SPACE				12	1	20	SPARE				
13			SPACE				14						3.88	
15			SPACE				16	3	30	EXISTING MAU				3.88
17			SPACE				18							3.88
19			SPACE				20							
21			SPACE				22							
23			SPACE				24							
25			SPACE				26							
27			SPACE				28							
29			SPACE				30							
31			SPACE				32							
33			SPACE				34							
35			SPACE				36							
37			SPACE				38							
39			SPACE				40	3	50	TRANSFORMER & P-2	0.00	0.00	1.50	
41			SPACE				42				0.00	0.00	0.75	
											P-P VOLTS		480	
											CONNECTED LOAD - PHASE A		0 0 5.38	
											CONNECTED LOAD - PHASE B		0 0 4.63	
											CONNECTED LOAD - PHASE C		0 0 4.63	
											TOTALS		0.0 0.0 14.6	
											TOTAL CONNECTED LOAD (KVA)		14.6	
											PHASE LOADING		PH A PH B PH C	
											CONNECTED LOAD (KVA)		5.4 4.6 4.6	
											CONNECTED LOAD (AMPS)		19.4 16.7 16.7	
NOTES											FED FROM NEW 200A 480V SERVICE			

PANEL SCHEDULE										PANEL		NEW PANEL P-2		
										JOB NO.		2000 USG DRIVE		
										MAIN BUS		100 AMPS		
										VOLTAGE		120/208 V		
										PHASE		3 P		
										WIRE		4 W		
										AIC RATING		10K AMPS		
CKT. NO.	BREAKER POLE	CLASS	DESCRIPTION	LOAD IN KVA			CKT. NO.	BREAKER POLE	CLASS	DESCRIPTION	LOAD IN KVA			
1			SPACE	LTG	REC	MTR	2	1	20	DOCK DOOR	LTG	REC	MTR	
3			SPACE				4	1	20	DOCK DOOR				
5			SPACE				6	1	20	DOCK DOOR			0.75	
7			SPACE				8	1	20	DOCK DOOR			0.75	
9			SPACE				10	1	20	SPARE				
11			SPACE				12	1	20	SPARE				
13			SPACE				14	1	20	SPARE				
15			SPACE				16	1	20	SPARE				
17			SPACE				18	1	20	SPARE				
19			SPACE				20							
21			SPACE				22							
23			SPACE				24							
25			SPACE				26							
27			SPACE				28							
29			SPACE				30							
31			SPACE				32							
33			SPACE				34							
35			SPACE				36							
37			SPACE				38							
39			SPACE				40							
41			SPACE				42							
											P-P VOLTS		208	
											CONNECTED LOAD - PHASE A		0 0 1.5	
											CONNECTED LOAD - PHASE B		0 0 0.75	
											CONNECTED LOAD - PHASE C		0 0 0.75	
											TOTALS		0.0 0.0 3.0	
											TOTAL CONNECTED LOAD (KVA)		3.0	
											PHASE LOADING		PH A PH B PH C	
											CONNECTED LOAD (KVA)		1.5 0.8 0.8	
											CONNECTED LOAD (AMPS)		12.5 6.2 6.2	
NOTES											FED FROM NEW PANEL P-1 & NEW TRANSFORMER			



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FOR APPROVAL: 05 | 20 | 2024  
DRAWN: 05 | 14 | 2024

SHEET TITLE:

ELECTRICAL PANEL SCHEDULES

SHEET NO.:

E-2.1



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AUGUST 06, 2024  
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TENANT:

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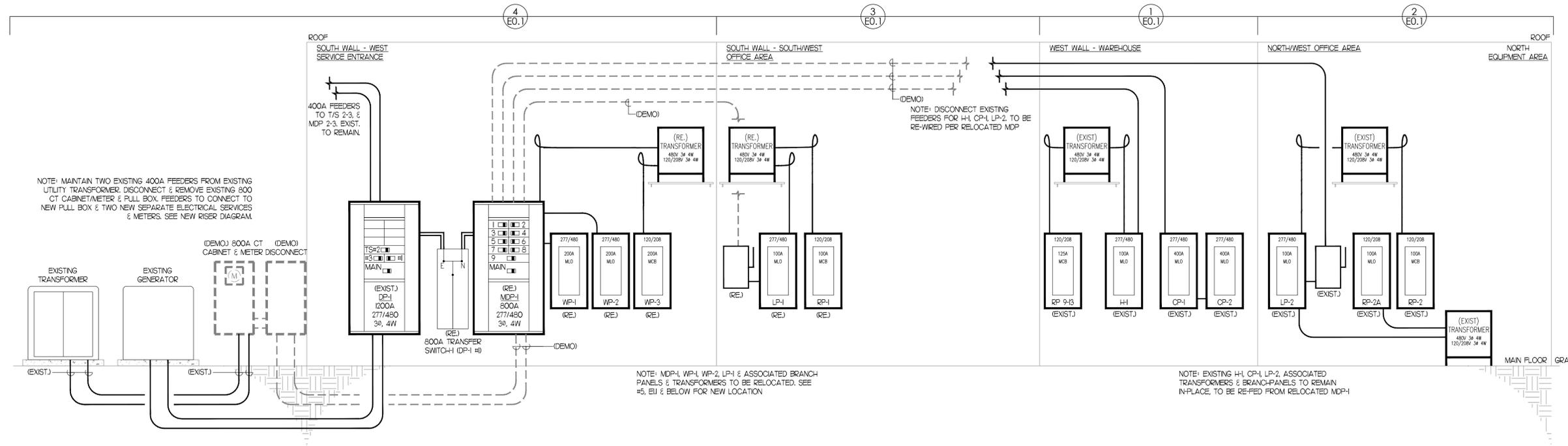
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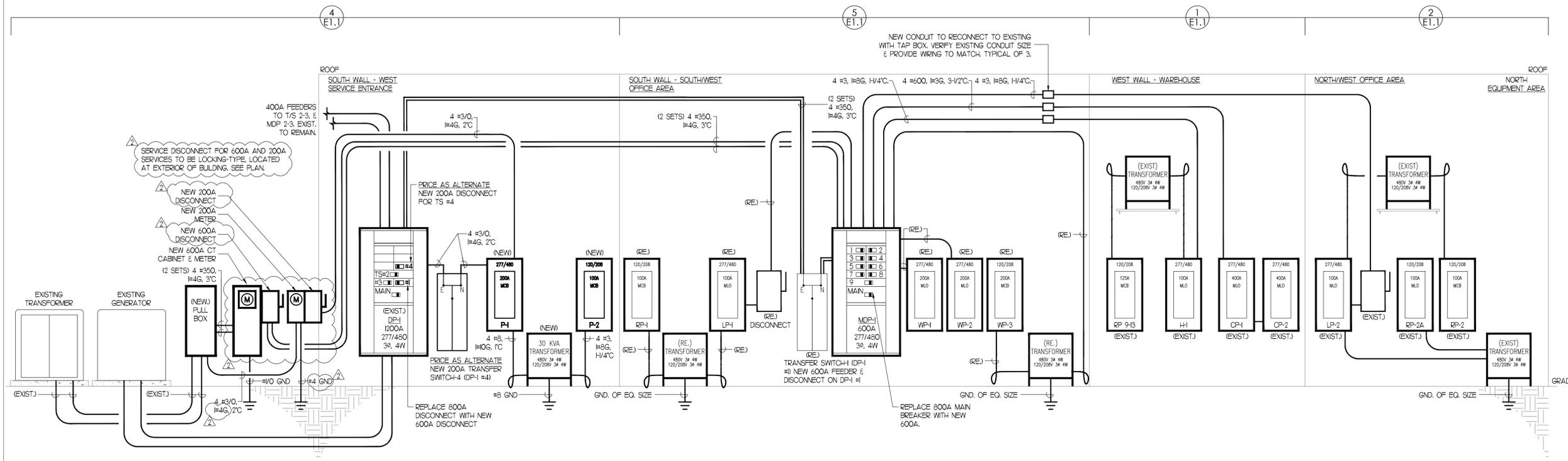
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PER TENANT REVIEW: 06 | 11 | 2024  
FOR APPROVAL: 05 | 20 | 2024  
DRAWN: 05 | 14 | 2024

ELECTRICAL RISER DIAGRAMS

SHEET NO.: E-2.2



1 EXISTING SINGLE LINE ELECTRICAL DIAGRAM  
SCALE: NO SCALE



2 NEW SINGLE LINE ELECTRICAL DIAGRAM  
SCALE: NO SCALE

## ELECTRICAL SPECIFICATIONS:

SCOPE: THIS SPECIFICATION REQUIRES ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO MAKE A COMPLETE AND ACCEPTABLE ELECTRICAL INSTALLATION AS SPECIFIED HEREIN AND SHOWN ON DRAWINGS. PROVIDE ALL ITEMS, ARTICLES, OPERATIONS, OR METHODS LISTED, MENTIONED, OR SCHEDULED HEREIN OR ON THE DRAWINGS, INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY AND REQUIRED FOR COMPLETION OF THE WORK.

REGULATIONS, CODES AND STANDARDS: CURRENT CODE REQUIREMENTS SHALL BE SATISFIED WHERE REQUIRED BY LOCAL, STATE, OR FEDERAL AUTHORITY HAVING JURISDICTION. NO EQUIPMENT WILL BE ACCEPTED UNLESS IT BEARS THE ACCEPTANCE LABEL OF AN APPROPRIATE TESTING AGENCY.

SHOP DRAWINGS: SUBMIT TO THE PROJECT ENGINEER, FOR APPROVAL, SHOP DRAWINGS FOR ALL EQUIPMENT LISTED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS. ALLOW 10 BUSINESS DAYS FOR REVIEW BY ARCHITECT/ENGINEER. SUBMITTALS SHALL INCLUDE AS A MINIMUM THE FOLLOWING:

- PRODUCT DATA: MANUFACTURER'S LITERATURE DESCRIBING ITEM, MODEL NUMBERS PROPOSED SHALL BE IDENTIFIED WHEN THE LITERATURE DESCRIBES MORE THAN ONE ITEM.
- MANUFACTURER'S SUBMITTAL: SHOWING ELECTRICAL REQUIREMENTS AND CONNECTION LOCATIONS SHALL BE PROVIDED.
- MAINTENANCE DATA: SUBMIT MAINTENANCE DATA AND PARTS LIST FOR EACH TYPE OF EQUIPMENT REQUIRING PERIODIC MAINTENANCE.

ALL SHOP DRAWINGS SUBMITTED SHALL BE STAMPED, DATED, AND SIGNED BY THE CONTRACTOR TO CERTIFY THAT THEY HAVE BEEN CHECKED BY HIM AS TO CAPACITIES, DIMENSIONS, SPACE REQUIREMENTS AND LIMITATIONS, AND ANY AND ALL OTHER REQUIREMENTS, AND FOUND ACCEPTABLE. APPROVAL OF SHOP DRAWINGS BY THE PROJECT ENGINEER SHALL NOT RELIEVE CONTRACTOR FROM FULFILLING OPERATIONAL REQUIREMENTS, OR FURNISHING ALL MATERIAL AND EQUIPMENT SPECIFIED OR NOTED, WHETHER OR NOT SPECIFICALLY SHOWN ON THE SHOP DRAWINGS. THE QUANTITY TO BE SUBMITTED SHALL BE THE NUMBER REQUIRED BY THE GENERAL CONTRACTOR.

AS-BUILT DRAWINGS: THE CONTRACTOR SHALL SUBMIT AT COMPLETION ONE (1) SET OF MARKED-UP CONTRACT DRAWINGS WHICH SHOW ALL MODIFICATIONS TO THE CONTRACT AND CHANGES OF LOCATIONS, MATERIALS, OR CONFIGURATIONS. THIS SET SHALL BE SUBMITTED WITH THE OPERATING MANUALS TO THE PROJECT ENGINEER.

OPERATING MANUALS: PROVIDE THREE (3) MANUALS, EACH WITH A COMPLETE SET OF COPIES OF SHOP DRAWINGS REQUIRED FOR THE PROJECT INCLUDING, MANUFACTURER'S TESTING, CLEANING AND MAINTENANCE INSTRUCTIONS, LIST OF MATERIALS FOR MAINTENANCE, PARTS LIST, WIRING DIAGRAMS, AND NAME AND ADDRESS OF AUTHORIZED SERVICE ORGANIZATIONS AND SUPPLIERS. INFORMATION SHALL BE BOUND IN BRONZE COVERING, LOOSE-LEAF BINDER, AND INDEXED IN ACCORDANCE WITH THESE SPECIFICATIONS. BINDER COVER SHALL IDENTIFY JOB NAME, DATE, AND NAME AND ADDRESS OF CONTRACTOR, ARCHITECT, AND ENGINEER. MANUALS SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR REVIEW OF MATERIAL PRIOR TO THE FINAL INSPECTION. MANUALS WILL BE RETURNED TO THE CONTRACTOR FOR THE SUBMITTAL TO THE OWNER AT THE TIME OF SYSTEM INSTRUCTION.

OWNER INSTRUCTION: CONTRACTOR SHALL ARRANGE IN WRITING, WITH THE OWNER, PRIOR TO FINAL INSPECTION A DATE OR DATES TO INSTRUCT THE OWNER'S DESIGNATED REPRESENTATIVES, IN THE OPERATION AND MAINTENANCE OF THE SYSTEM.

FINAL INSPECTION: UPON COMPLETION OF ALL WORK, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE FOLLOWING DATA:

- TESTING REPORTS
- MAINTENANCE MANUALS

AFTER RECEIVING APPROVAL OF THE ABOVE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING AND MAKE ARRANGEMENTS FOR A FINAL INSPECTION. AFTER THE FINAL INSPECTION IS MADE, THE CONTRACTOR WILL RECEIVE A LIST OF ITEMS REQUIRING ADJUSTMENT, CORRECTION, REPLACEMENT, OR COMPLETION. THE CONTRACTOR SHALL COMPLY COMPLETELY WITH ALL THE LISTED REQUIREMENTS WITHIN THIRTY (30) DAYS OF THE RECEIPT OF LIST. SHOULD THE CONTRACTOR FAIL TO PERFORM WITHIN THIS TIME LIMIT, THE PROJECT ENGINEER AND/OR OWNER RESERVES THE RIGHT TO HAVE THE WORK COMPLETED BY OTHERS AND THE COST DEDUCTED FROM THE CONTRACT PRICE.

GUARANTEE: THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS SUPPLIED BY HIM FOR ONE (1) YEAR AFTER ACCEPTANCE OF THE WORK IN HIS CONTRACT. IF, DURING THE GUARANTEE PERIOD, ANY DEFECTS OF FAULTY MATERIALS OR WORK SHALL OCCUR, THE CONTRACTOR SHALL IMMEDIATELY AND REPAIR ANY DAMAGE TO OTHER MATERIALS OR INSTALLATIONS CAUSED BY THE DEFECT.

EXTENDED WARRANTIES: WHEN EQUIPMENT IS FURNISHED BY THE CONTRACTOR, OR MANUFACTURER, WITH A WARRANTY LONGER THAN ONE (1) YEAR, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY ALONG WITH RECEIPTS OR OTHER DOCUMENTS NECESSARY FOR FUTURE WARRANTY REPAIRS. UNLESS OTHERWISE REQUIRED, EXTENDED WARRANTIES ARE FOR EQUIPMENT ONLY, NOT MATERIALS OR LABOR TO INSTALL.

MATERIALS AND EQUIPMENT: ALL EQUIPMENT AND MATERIALS TO BE INCORPORATED IN THIS CONTRACT WORK SHALL BE NEW AND OF THE MAKES AND TYPES AS SPECIFIED AND CONTRACTED FOR. NO REMOVED EQUIPMENT SHALL BE RE-INSTALLED OR RE-USED.

INSTALLATION: INSTALLATION OF ALL MATERIAL, ITEMS OR EQUIPMENT AS SHOWN ON DRAWINGS OR DESCRIBED IN SPECIFICATIONS SHALL CONFORM AS NEARLY AS POSSIBLE TO MANUFACTURER'S RECOMMENDED PROCEDURE, UNLESS DESIGNATED OTHERWISE. SHOULD SELECTION OF APPROVED ALTERNATE EQUIPMENT REQUIRE REVISIONS, THIS CONTRACTOR SHALL MAKE ALL CHANGES TO ACCOMMODATE SUCH EQUIPMENT. CONTRACTOR SHALL PREPARE DRAWINGS OF REVISIONS FOR APPROVAL BY PROJECT ENGINEER PRIOR TO BEGINNING WORK. CHANGES AND DRAWINGS SHALL BE MADE AT NO CHANGE IN CONTRACT AMOUNT.

REGULATIONS, CODES AND STANDARDS: THIS CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES AND PAY ALL FEES IN CONNECTION WITH SAME FOR WORK PERFORMED UNDER DIVISION 16.

OPENINGS, CHASES AND RECESSES: THIS CONTRACTOR SHALL GIVE GENERAL CONTRACTOR, IN SUFFICIENT TIME, ALL DIMENSIONS NEEDED FOR THE PROPER CONSTRUCTION AND LOCATION OF FORMS, CHASES AND OTHER OPENINGS WHICH MAY BE REQUIRED FOR THE INSTALLATION OF ALL EQUIPMENT, PIPE, DUCTS AND MATERIALS UNDER THIS CONTRACT.

PROTECTION OF EQUIPMENT: PROTECT AGAINST INJURY FROM WEATHER ALL BUILDING MATERIALS, SUPPLIES, TOOLS, EQUIPMENT, AND FIXTURES INSTALLED OR TO BE INSTALLED, WITH SUITABLE AND SUBSTANTIAL COVERS. COST OF REPAIRING OR REPAIRING EQUIPMENT AND FIXTURES MADE NECESSARY BY FAILURE TO PROVIDE SUITABLE PROTECTION SHALL BE PAID BY THIS CONTRACTOR. RESPONSIBILITY FOR THE CARE AND PROTECTION OF MECHANICAL EQUIPMENT AND WORK SHALL REMAIN WITH THE CONTRACTOR UNTIL IT HAS BEEN TESTED AND ACCEPTED. PROTECT EQUIPMENT OUTLETS, PIPE, DUCT, AND CONDUIT OPENINGS WITH TEMPORARY PLUGS, CAPS, OR APPROVED DEVICES.

CLEANING: AFTER ALL FIXTURES, MATERIALS, AND APPARATUS HAVE BEEN SET AND READY FOR USE, AND BEFORE THE CONTRACTOR LEAVES THE JOB, HE SHALL THOROUGHLY CLEAN ALL EQUIPMENT FURNISHED AND SET BY HIM REMOVING ALL STICKERS, RUST STAINS, GREASE, CEMENT, AND OTHER FOREIGN MATTER OR DISCOLORATION ON EQUIPMENT, LEAVING EVERY PART IN ACCEPTABLE CONDITION, READY FOR USE. CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS RESULTING FROM HIS WORK, LEAVING BUILDING IN CLEAN CONDITION, SUITABLE FOR OCCUPANCY.

### UTILITY COMPANIES:

CONTACT UTILITY COMPANIES AND ADVISE OF PROPOSED WORK PRIOR TO THE START OF ANY EXCAVATION.

### CONDUIT AND FITTINGS:

ALL CONDUIT SHALL BE THINWALL WITH SET SCREW FITTINGS. ALL CONNECTORS SHALL HAVE INSULATED BUSHINGS OR THROAT-TYPE BUSHINGS.

SURFACE RACEWAY SHALL BE WIREMOLD NO. 500 OR NO. 700.

### UNDERGROUND RACEWAY:

R/C, TYPE EPC-40-PVC COMPLYING WITH NEMA TC2 AND UL 651 DIRECT BURIED. MINIMUM BURIAL DEPTH OF 18".

### BOXES AND COVERS:

ALL BOXES SHALL BE OF PROPER SIZE AND SHAPE FOR ALL CONDUITS AND CONDUCTORS ENTERING THEM.

### CABLE AND WIRE:

ALL WIRE SHALL HAVE COPPER CONDUCTORS AND BE LISTED BY UNDERWRITERS LABORATORIES, INC. ALL WIRE SHALL BE TYPE THWN 75°C, INSULATION FOR SIZES NO. 6 TO 500 MCM AND TYPE THHN 90°C, INSULATION FOR SIZES NO. 12 TO NO. 8.

### ELECTRICAL WIRING DEVICES:

#### SCHEDULE OF ALL ELECTRICAL DEVICES:

DEVICE	MANUFACTURER'S NAME AND CATALOG NUMBER	RATING
SINGLE POLE SW.	HUBBELL #122H BRYANT #4904H A-H #899H	20 AMP • 120 V.
THREE WAY SW.	HUBBELL #1223H BRYANT #4903H A-H #8993H	20 AMP • 120 V.
DUPLEX CONVENIENCE OUTLET	HUBBELL #5352H BRYANT #5362H A-H #5739-5H	20 AMP • 120 V.
DUPLEX GROUND FAULT CIRCUIT INTERRUPTING	HUBBELL #6P5352H BRYANT #6P5352H A-H #6P5352H GROUND	20 AMP • 120 V.
SIMPLEX 30A	BRYANT #9630FR	30 AMP • 240V.

FLOOR BOXES SHALL BE TAMPER RESISTANT COMBINATION POP-UP BOX WITH DUPLEX RECEPTACLE AND DATA PORTS. WATER TIGHT GASKET, NICKEL PLATE BRASS FINISH.

WET LOCATION RECEPTACLES SHALL HAVE AN ENCLOSURE THAT IS WEATHER-PROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED.

ALL DEVICES AND COVERS TO BE WHITE.

### WIRING DEVICE PLATES:

ALL DEVICE PLATES SHALL BE FURNISHED WITH PROPER OPENINGS FOR THE DEVICE WITH WHICH IT IS BEING USED. WHERE REQUIRED, MULTIPLE GANG PLATES FOR CORRECT COMBINATION SHALL BE USED WITH THE PROPER OPENING FOR THE DEVICE WITH WHICH THEY ARE BEING USED. THE PLATES SHALL BE COLOR AS SELECTED BY ARCHITECT.

### OPENINGS IN CONSTRUCTION:

OPENINGS BETWEEN CONDUIT AND FLOORS OR WALLS THROUGH FIRE OR SMOKE BARRIERS SHALL BE CLOSED WITH FIRE STOPPING MATERIAL TO MAINTAIN FIRE OR SMOKE BARRIER RATINGS. FIRE STOP MATERIAL SHALL BE DOW CORNING 3-6548 SILICONE RTV FOAM, CHASE TECHNOLOGY CORP. CTC PR-855 FIRE RESISTANT FOAM SEALANT, 3M 303 FIRE BARRIER, T & B S-101 FIRE BARRIER OR NELSON FLAMESEAL.

### INSTALLATION OF RACEWAYS AND CONDUITS:

ALL CONDUIT SHALL BE CONCEALED IN WALL CONSTRUCTION AND/OR ABOVE CEILING CONSTRUCTION EXCEPT IN MECHANICAL EQUIPMENT ROOMS, WHERE IT MAY BE EXPOSED AT THE CEILING OR ON WALLS. THE ROUTING OF CONDUIT SHOWN ON THE DRAWINGS IS DIAGRAMMATIC ONLY, AND THIS CONTRACTOR SHALL INSTALL CONDUIT AS REQUIRED TO COMPLETE THE SYSTEMS SO AS NOT TO INTERFERE WITH OTHER TRADES IN BOTH ELEVATION AND LOCATION. INSTALL FLEXIBLE CONDUIT FOR FINAL CONNECTIONS FOR ALL RECESSED LIGHTING FIXTURES, (FLUORESCENT AND INCANDESCENT), AND ALL VIBRATION GENERATING EQUIPMENT EXCEPT WHERE FLEXIBLE LIQUID-TIGHT IS SPECIFICALLY CALLED FOR. A MAXIMUM LENGTH OF FLEXIBLE STEEL CONDUIT SHALL BE LIMITED TO 6'-0".

### LIGHTING TIMER CONTROLS:

INTERMATIC ET100 OR SIMILAR 24-HOUR 1-CIRCUIT ELECTRONIC CONTROL, 120-277 VAC, 60 HZ, SPST INDOOR METAL ENCLOSURE TO ALLOW FOR UP-TO-THE-MINUTE PROGRAMMING, 7-DAY ASTRONOMIC BATTERY BACKUP FOR POWER LOSS, UP TO 28 EVENTS TOTAL, AND AUTOMATIC DAYLIGHT SAVING TIME CORRECTIONS WITHOUT THE NEED OF USER INTERVENTION.

### WIRING JOINTS:

MAKE ALL BRANCH CIRCUIT JOINTS FOR WIRE UP TO AND INCLUDING NO. 10 AWG WITH EXPANDABLE STEEL SPRINGS AND POLYPROPYLENE BODY-TYPE CONNECTORS AND WIRE NUTS MANUFACTURED BY IDEAL, SCOTCH-BUCHANAN OR ARCHITECT/ENGINEER APPROVED EQUAL.

### HEIGHTS OF WALL SWITCHES AND RECEPTACLES:

FOR ADDITIONS OR ALTERATIONS, DETERMINE THE EXACT HEIGHT OF EACH LIGHT, RECEPTACLE OUTLETS, AND OUTLET BOXES ON THE PREMISES AND EXAMINE THE GENERAL DRAWINGS AND DETAILS TO SEE THAT OUTLETS ARE PROPERLY SPACED AND LOCATED WITH RELATION TO THE INTERIOR FINISH AND TREATMENT. MOUNTING HEIGHTS SHALL BE HELD AS NEAR AS POSSIBLE TO THE CENTERLINE OF THE EQUIPMENT. FOR NEW CONSTRUCTION, SEE TABLE ON FIRST 5-SHEET.

### TELEPHONE/DATA CONDUIT SYSTEM:

IN GENERAL, ALL OUTLETS SHOWN SHALL HAVE A 1" EMPTY CONDUIT STUBBED INTO CORRIDOR CEILING OR INTO CEILING SPACE WHERE THE CEILING TILE IS REMOVABLE. THE CONDUITS SHALL BE STUBBED

INTO AREAS THAT ARE ACCESSIBLE FOR INSTALLATION OF TELEPHONE CABLES. THE CONDUIT STUBS SHALL BE FINISHED WITH PLASTIC BUSHINGS.

IN CERTAIN AREAS WHERE THE CEILING ARE PLASTER OR CONCEALED SPLINE TILE, A COMPLETE CONDUIT SYSTEM FROM OUTLET TO TERMINAL CABINETS SHALL BE INSTALLED. ALL TELEPHONE/DATA OUTLETS SHALL BE FINISHED WITH BLANK COVERPLATES. THE COVERPLATES SHALL BE OF THE SAME MATERIAL AND FINISH AS OTHER DEVICE PLATES IN THE PROJECT.

ALL TELEPHONE/DATA OUTLETS SHALL BE 4" X 4" X 2-1/2" DEEP BOXES WITH SINGLE SQUARE CUT COVER. INSTALL ALL CONDUITS WITH NYLON FISH LINES TO FACILITATE THE EASY INSTALLATION OF TELEPHONE CABLES. ALL OUTLETS SHALL BE MOUNTED AS NOTED ELSEWHERE IN THIS SPECIFICATION, EXCEPT FOR UNITS INDICATED AS WALL OUTLETS WHICH SHALL BE MOUNTED 48" ABOVE THE FLOOR. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DATA AND PHONE CABLING.

### PANELBOARDS:

ALL PANELBOARDS SHALL BE OF THE CIRCUIT BREAKER, DEAD FRONT TYPE WITH SEPARATE GROUND BUS AND SHALL BE FOR THE VOLTAGE AS INDICATED ON THE DRAWINGS AND IN THE PANELBOARD SCHEDULES.

PHASE, NEUTRAL, AND GROUND BUSES SHALL BE HARD-DRAWN COPPER. CONDUCTOR CONNECTORS SHALL BE MECHANICAL TYPE AND HARD-DRAWN COPPER.

GROUND BUS SHALL BE ADEQUATE FOR FEEDER AND BRANCH-CIRCUIT EQUIPMENT GROUNDING.

PANELBOARD BACK BOXES AND TRIM SHALL BE FACTORY FINISHED STEEL AND SHALL BE RATED NEMA 250 TYPE 1 FOR INDOOR LOCATIONS, TYPE 3R FOR OUTDOOR LOCATIONS, AND TYPE 4X FOR KITCHEN LOCATIONS.

PANELBOARDS SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS.

PANELBOARD SHALL BE LISTED BY UL AND BEAR UL LABEL.

PANELBOARDS SHALL BE MARKED WITH MAXIMUM SHORT CIRCUIT CURRENT ON THE OUTSIDE OF EACH PANEL AND ABOVE THE DOOR, AN ARC FLASH HAZARD WARNING SIGN, AND A PERMANENTLY ATTACHED AND ENGRAVED SIGN AS SPECIFIED UNDER IDENTIFICATION OF EQUIPMENT SHALL BE

INSTALLED INDICATING THE POWER SYSTEMS, VOLTAGE, ETC. IN 1/4" LETTERS, I.E., (200/208 VOLT, 3 PHASE, 4 WIRE, PANEL A).

### DISTRIBUTION TYPE PANELBOARD

#### a. ACCEPTABLE MANUFACTURERS

- EATON ELECTRICAL
- GENERAL ELECTRIC
- SIEMENS
- SQUARE D

#### b. DOORS: SECURED WITH YALL-TYPE LATCH WITH TUMBLER LOCK, KEYS ALIKE.

#### c. MAINS: LUGS OR CIRCUIT BREAKER AS INDICATED ON PANEL SCHEDULE.

#### d. BRANCH OVERCURRENT PROTECTIVE DEVICE: BOLT-ON CIRCUIT BREAKERS.

### BRANCH TYPE PANELBOARD

#### a. ACCEPTABLE MANUFACTURERS

- EATON ELECTRICAL
- GENERAL ELECTRIC
- SIEMENS
- SQUARE D

#### b. DOORS: CONCEALED HINGES, SECURED WITH FLUSH LATCH AND TUMBLER LOCK, KEYS ALIKE.

#### c. MAINS: LUGS OR CIRCUIT BREAKER AS INDICATED ON PANEL SCHEDULE.

#### d. BRANCH OVERCURRENT PROTECTIVE DEVICE: BOLT-ON CIRCUIT BREAKERS.

### GROUNDING:

PROVIDE A GROUND WIRE IN ALL RACEWAYS. PROVIDE A NEUTRAL WIRE AT EACH SWITCH BOX LOCATION. ALL RECEPTACLES REQUIRE A PIGTAIL GROUNDING WIRE TO THE BOX.

INSTALL ALL OUTLETS WITH A GREEN JUMPER WIRE FROM THE GROUND TERMINAL OF THE OUTLET TO A GROUNDING LUG IN THE OUTLET BOX. INSTALL SEPARATE GREEN GROUND WIRE (IN ADDITION TO BRANCH CIRCUIT CONDUCTORS) AND BOND TO ELECTRICAL EQUIPMENT WHERE FLEXIBLE METAL CONDUIT AND LIQUID TIGHT FLEXIBLE CONDUIT IS USED AS A FINAL CONNECTION TO ELECTRICAL EQUIPMENT. BOND THE GREEN CONDUCTOR TO CONDUIT SYSTEM IN THE LAST JUNCTION BOX AND TO ALL ELECTRICAL EQUIPMENT, I.E., LIGHTING FIXTURES, MOTORS AND OTHER EQUIPMENT.

THE COMPLETE GROUNDING SYSTEM SHALL BE DONE WITH GROUNDING CONDUCTORS THROUGHOUT THE ENTIRE PROJECT INSTALLATION. SEPARATE GROUNDING CONDUCTORS FOR ALL BRANCH CIRCUITS ARE NOT SHOWN ON THE DRAWINGS, BUT SHALL BE INCLUDED IN ALL RACEWAYS AS IF SET FORTH ON THE DRAWINGS. SEPARATE GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL BRANCH CIRCUITS. GROUNDING CONDUCTORS SHALL BE INSTALLED IN THE SAME CONDUIT RUNS AS THE PHASE AND NEUTRAL CONDUCTORS. THE SIZE OF THE GROUNDING CONDUCTORS SHALL BE IN STRICT ACCORDANCE WITH TABLE NO. 250-122 OF THE NATIONAL ELECTRICAL CODE.

### BONDING:

PROVIDE BONDING JUMPER BETWEEN HOT AND COLD WATER PIPES WITH A JUMPER SIZED ACCORDING TO NEC TABLE 250.02.

### DISCONNECT SWITCHES:

ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY MULTIPLE POLE ENCLOSED-TYPE SAFETY SWITCHES. ALL SWITCHES SHALL BE THE FUSIBLE TYPE WITH REJECTION-TYPE FUSE CLIPS.

ALL SWITCHES SHALL BE NEMA 1 OR 3R ENCLOSURES AND SHALL BE UL LISTED.

EACH DISCONNECT SWITCH SHALL BE FURNISHED WITH AN ENGRAVED PLASTIC OR METAL STRIP AS SPECIFIED UNDER IDENTIFICATION OF EQUIPMENT PERMANENTLY ATTACHED TO OUTSIDE COVER, INDICATING DEVICE USAGE OR EQUIPMENT CONTROLLED, SUCH AS FAN OFF. NUMBER SHALL BE THE SAME AS THOSE ON DRAWINGS AND TEMPERATURE CONTROL DIAGRAM.

### ENCLOSED CIRCUIT BREAKERS:

PROVIDE INDIVIDUALLY ENCLOSED MOLDED CASE CIRCUIT BREAKERS AS SHOWN ON THE PLANS. ALL CIRCUIT BREAKERS SHALL MEET FEDERAL SPECIFICATION W-C-375B AND BOTH CIRCUIT BREAKER AND THE ENCLOSURE SHALL BE UL LISTED.

MOLDED CASE CIRCUIT BREAKERS SHALL HAVE OVERCENTER TOGGLE-TYPE MECHANISMS, PROVIDING QUICK-MAKE, QUICK-BREAK ACTION. BREAKERS SHALL BE CALIBRATED FOR OPERATION IN AN AMBIENT TEMPERATURE OF 40° C. EACH CIRCUIT BREAKER SHALL HAVE TRIP INDICATION BY HANDLE POSITION AND SHALL BE TRIP-FREE. THREE POLE BREAKERS SHALL BE COMMON TRIP. EACH CIRCUIT BREAKER SHALL HAVE A PERMANENT TRIP UNIT CONTAINING INDIVIDUAL THERMAL AND MAGNETIC TRIP ELEMENTS IN EACH POLE.

CIRCUIT BREAKERS WITH FRAME SIZES GREATER THAN 100 AMPERES SHALL HAVE VARIABLE MAGNETIC TRIP ELEMENTS WHICH ARE SET BY A SINGLE ADJUSTMENT. A BUTTON SHALL BE PROVIDED ON THE COVER FOR MECHANICALLY TRIPPING THE CIRCUIT BREAKER. THE CIRCUIT BREAKERS SHALL BE CONSTRUCTED TO ACCOMMODATE THE SUPPLY CONNECTIONS AT EITHER END OF THE CIRCUIT BREAKER.

BREAKER SHALL BE UL LISTED WITH A SHORT CIRCUIT CURRENT RATING OF 42000 RMS SYMMETRICAL AMPERES.

NEUTRALS SHALL BE FURNISHED IN DEVICE ENCLOSURE. NEUTRALS SHALL BE INSULATED AND ARE TO BE GROUNDABLE FOR USE IN SERVICE ENTRANCE APPLICATIONS.

ENCLOSURES SHALL BE NEMA 1, FINISHED WITH KNOCKOUTS WHERE PRACTICAL, AND SHALL BE FABRICATED FROM SHEET STEEL WHICH CONFORMS TO UL 50. THE ENCLOSURE SHALL BE GIVEN AN ELECTRO DEPOSITED, GRAY BAKED ENAMEL FINISH. PADLOCKING PROVISIONS SHALL BE PROVIDED TO ALLOW LOCKING THE CIRCUIT BREAKER IN THE "OFF" POSITION. ENCLOSURES SHALL BE UL LISTED.

ENCLOSED BREAKERS SHALL BE MANUFACTURED BY SQUARE D, GENERAL ELECTRIC OR SIEMENS I/E.

FORWARD SUBMITTALS TO ARCHITECT/ENGINEER FOR REVIEW.

### INTERIOR LIGHT FIXTURES:

FORWARD A BOUND BROCHURE OF ALL LIGHTING FIXTURES INDICATING FIXTURE TYPES, FINISHES, LAMPS, DETAILS, ETC. TO THE ARCHITECT/ENGINEER FOR REVIEW. SEE LIGHT FIXTURE SCHEDULE ON THE DRAWINGS FOR ADDITIONAL INFORMATION.

### EXIT LIGHTING SYSTEM:

CONNECT ALL EXIT LIGHTING UNITS TO AN UNSWITCHED CIRCUIT ORIGINATED FROM THE SAME BRANCH CIRCUIT AS THAT SERVING NORMAL LIGHTING IN THE LOCAL AREA.

ALL EXIT FIXTURES AS NOTED IN LIGHT FIXTURE SCHEDULE ON THE DRAWINGS SHALL BE OF THE SELF-CONTAINED TYPE WITH THE FOLLOWING ITEMS:

- MAINTENANCE FREE, RECHARGEABLE, NICKEL CADMIUM BATTERY HAVING A 10 YEAR LIFE RATING AND WARRANTY AND CAPABLE OF POWERING THE CONNECTED LAMPS FOR 1/2 HOURS TO 87-1/2% OF INITIAL NOMINAL BATTERY VOLTAGE.
- AUTOMATIC CHARGER WITH MULTI-RATE, SOLID-STATE RECTIFIER WITH SENSING DEVICE AND CHARGE TRANSFORMER TO CHARGE THE BATTERY TO 100% OF BATTERY CAPACITY WITHIN 12 HOURS FOLLOWING FULL RATED LOAD DISCHARGE TO 87-1/2% NOMINAL VOLTAGE.
- TEST SWITCH TO SIMULATE A POWER FAILURE AND TO CYCLE THE CHARGING CIRCUIT.
- AUTOMATIC TRANSFER SWITCH TO IMMEDIATELY ENERGIZE ALL LAMPS CONNECTED TO UNIT UPON FAILURE OF NORMAL POWER.
- PLOT AND READY LIGHT.
- MOUNT INTEGRAL BATTERY AND CHARGER EMERGENCY PACK WITHIN THE EXIT HOUSING AND ACCESSIBLE FOR SERVICE WITHOUT REMOVING EXIT SIGN FROM ITS MOUNTING.
- LED LAMPS.

THESE UNITS SHALL BE FULLY AUTOMATIC WITH SOLID-STATE SWITCHING. UPON NORMAL AC POWER FAILURE, TWO EMERGENCY LAMPS WILL OPERATE ON BATTERY POWER FOR THE MINIMUM REQUIRED 1/2 HOURS WITHOUT REDUCING BATTERY VOLTAGE LOWER THAN 87-1/2% OF NOMINAL RATED VOLTAGES AS REQUIRED BY NEC AND OSHA. UPON RESTORATION OF REGULAR POWER SUPPLY, THE UNIT SHALL SWITCH BACK TO NORMAL MODE AND CHARGER SHALL REPLENISH BATTERY WITHIN 24 HOURS.

FORWARD SUBMITTALS TO ARCHITECT/ENGINEER FOR REVIEW.

### BATTERY-OPERATED EMERGENCY LIGHT (SURFACE):

CONNECT ALL BATTERY OPERATED EMERGENCY LIGHTING UNITS TO AN UNSWITCHED CIRCUIT ORIGINATED FROM THE SAME BRANCH CIRCUIT AS THAT SERVING NORMAL LIGHTING IN THE LOCAL AREA.

PROVIDE WHERE SHOWN ON THE DRAWINGS, SURFACE SELF-CONTAINED, BATTERY-OPERATED EMERGENCY LIGHTING UNIT.

THE SURFACE, BATTERY-OPERATED EMERGENCY LIGHTING UNITS SHALL BE SUITABLE FOR CEILING MOUNTING WITH PROPER MOUNTING BRACKETS AT A HEIGHT AS INDICATED ON THE DRAWINGS. UNIT SHALL HOUSING SHALL BE THERMOPLASTIC. UNIT SHALL HAVE REMOVABLE COVER TO PROVIDE FULL ACCESS TO BATTERY, CHARGER, FUSES, WIRING AND OTHER COMPONENTS. FINISH SHALL BE MATTE WHITE AND CHROME LAMP-HEADS.

THE SURFACE BATTERY-OPERATED, EMERGENCY LIGHTING UNITS SHALL BE COMPLETE WITH THE FOLLOWING:

- TWO ADJUSTABLE LED LAMP-HEADS.
- 3.6V PREMIUM GRADE, NICKEL CADMIUM BATTERY WITH 10 YEAR EXPECTED LIFE.
- ENVIRONMENTALLY COATED, SOLID STATE CHARGER, LOW VOLTAGE DISCONNECT.
- FULLY ADJUSTABLE 15WATT, GLARE-FREE LIGHTING HEADS.
- INJECTION-MOLDED, FLAME RETARDANT, HIGH IMPACT, THERMOPLASTIC HOUSING.
- LOW-PROFILE TEST SWITCH AND LED CHARGE RATE INDICATOR LIGHT
- REGULATED CHARGE VOLTAGE
- AC LOCKOUT
- OVERLOAD/SHORT CIRCUIT PROTECTION
- BROWN OUT PROTECTION
- UL 924 LISTED.

CONNECT UNIT TO AN UNSWITCHED 120 VOLT CIRCUIT. THIS CIRCUIT SHALL BE THE SAME CIRCUIT THAT SERVES THE CORRIDOR OR AREA LIGHTING.

FORWARD SUBMITTALS TO ARCHITECT/ENGINEER FOR REVIEW.

### SUPPORT FOR LIGHT FIXTURES:

SUPPORT ALL FIXTURES FROM THE BUILDING STRUCTURE AND NOT FROM THE CEILING SUSPENSION SYSTEM (SUCH AS A T-BAR SYSTEM FOR A SUSPENDED ACOUSTICAL TILE CEILING). SUPPORT THE FIXTURES FROM THE BAR JOISTS, FLOOR STRUCTURE OR ROOF STRUCTURE ABOVE WITH 12 GAUGE ZINC COATED STEEL WIRE. INSTALL MINIMUM OF TWO HANGERS FOR EACH FIXTURE. WHERE A FIXTURE

OCCURS UNDER DUCTS, THE WIDTH OF DUCT SHALL BE SPANNED WITH METAL FRAMING CHANNEL, SUSPENDED AND SUPPORTED AT BOTH ENDS AND THE FIXTURE ATTACHED TO THE METAL FRAMING CHANNEL.

WHERE RECESSED FIXTURES OCCUR IN GRID SYSTEM FIXTURES SHALL BE SECURELY FASTENED TO THE GRID SYSTEM MEMBERS WITH SAFETY TEE BAR CLIPS. FURNISH AND INSTALL 4 CLIPS PER FIXTURE.

### FREE ALARM DEVICES:

VISUAL SIGNAL APPLIANCES SHALL BE PROVIDED IN EACH OF THE FOLLOWING AREAS: MEETING ROOMS, RESTROOMS, HALLWAYS, LOBBIES, AND ANY OTHER GENERAL OR COMMON USE AREAS. BATHROOMS SHALL ALSO REQUIRE VISUAL ALARMS.



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John K. Neville

AUGUST 06, 2024  
EXPIRES 11/30/2025

### TENANT:

## DEMISED SUITES

1950-2000 USG DRIVE  
LIBERTYVILLE, ILLINOIS 60048

PROJ. NO. 25775-24 SUITE #2000 U.S.F. 97.696  
SUITE #1980 U.S.F. 52.390

SUBMITTED: DATE:

△ PER PERMIT COMMENTS: 08 | 06 | 2024

FOR PERMIT: 06 | 17 | 2024

FOR BID: 06 | 17 | 2024

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