



# Dock Addition Receiving Office

Dock Addition  
Receiving Office

# PACKAGING SPECIALTIES, INC.

1755 & 1767 S. Armstrong Ave  
Fayetteville, Arkansas

DESIGN-BUILDER

# NABHOLZ

Construction Services

3301 N. Second St.  
Rogers, AR 72756

Owner's Representative, CONTACT  
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## MEP ENGINEER



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## STRUCTURAL ENGINEER



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## ARCHITECT



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## ABBREVIATIONS

|          |                              |
|----------|------------------------------|
| ARFF     | ABOVE REFERENCE FINISH FLOOR |
| BM, BRFF | BEAM                         |
| BRFF     | BELOW REFERENCE FINISH FLOOR |
| C.J.     | FLOOR CONTROL JOINT          |
| EL.      | ELEVATION                    |
| E.J.     | EXPANSION JOINT              |
| FDN.     | FOUNDATION                   |
| F.F.     | FINISH FLOOR                 |
| FTG.     | FOOTING                      |
| G.C.     | GENERAL CONTRACTOR           |
| J.B.E.   | JOIST BEARING ELEVATION      |
| MBM      | METAL BUILDING MANUFACTURER  |
| N.I.C.   | NOT IN CONTRACT              |
| N.T.S.   | NOT TO SCALE                 |
| R.D.     | ROOF DRAIN                   |
| RTU      | ROOF TOP UNIT                |
| SIM.     | SIMILAR                      |
| S.J.     | SAWED JOINT                  |
| STD.     | STANDARD                     |
| T.O.B.   | TOP OF BEAM                  |
| T.O.C.   | TOP OF CURB                  |
| T.O.F.   | TOP OF FOOTING               |
| T.S.     | THICKENED SLAB               |
| T.W.     | TOP OF WALL                  |
| TYP.     | TYPICAL                      |
| V.C.J.   | VERTICAL CONTROL JOINT       |
| V.T.R.   | VENT THRU ROOF               |

--- BAR JOIST  
--- ANGLE  
--- BEAM

## MATERIALS LEGEND

|  |                             |
|--|-----------------------------|
|  | COMPACTED FILL              |
|  | UNDISTURBED EARTH           |
|  | CRUSHED STONE               |
|  | CONCRETE (SECTION)          |
|  | CONCRETE (PLAN)             |
|  | BRICK                       |
|  | STONE                       |
|  | CONCRETE BLOCK              |
|  | GLAZED FACE STRUCTURAL TILE |
|  | MORTAR - GROUT              |
|  | LARGE SCALE METAL           |
|  | SMALL SCALE METAL           |
|  | METAL STUD PARTITION        |
|  | WOOD STUD PARTITION         |
|  | WOOD - ROUGH (CONTINUOUS)   |
|  | WOOD - ROUGH (BLOCKING)     |
|  | WOOD - FINISH               |

## SYMBOLS KEY

|  |                           |
|--|---------------------------|
|  | GENERAL NOTE              |
|  | NOTE LETTER (A)           |
|  | ELEVATION                 |
|  | WALL SECTION              |
|  | BUILDING SECTION          |
|  | ENLARGED DETAIL           |
|  | TOILET ACCESSORY          |
|  | GRID LINE                 |
|  | EQUIPMENT                 |
|  | DOOR                      |
|  | FRAME (WINDOW)            |
|  | FOOTING ELEV. TOP OF FTG. |
|  | ROOM NUMBER               |
|  | REVISIONS                 |

## DRAWING INDEX

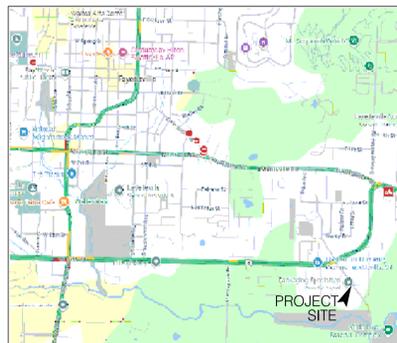
CIVIL *Issued under separate cover*  
Design-Build GC HAS SEPARATE Contract w CIVIL ENGINEER, McCLELLAND Civil Engineering.

|   |                                |
|---|--------------------------------|
| CS.1  | LIFE SAFETY-CODE PLAN          |
| ARCHITECTURAL   |                                |
| A1.0  | OVERALL FLOOR PLAN             |
| A1.1  | ENLARGED PLANS, DOOR SCHEDULE  |
| A2.1  | TOILET ELEVATIONS              |
| A3.1  | FINISH SCHEDULE                |
| A4.1  | EXTERIOR BUILDING ELEVATIONS   |
| A5.1  | BUILDING SECTION at DOCK       |
| A6.1  | WALL SECTIONS                  |
| STRUCTURAL  |                                |
| S0.0  | GENERAL NOTES                  |
| S1.0  | FOUNDATION PLAN, FOOTING SCHED |
| S2.0  | FOUNDATION DETAILS             |
| S2.1  | FOUNDATION DETAILS             |
| FIRE PROTECTION   |                                |
| FP1.0   | FIRE PROTECTION GEN NOTES      |
| <i>Fire Protection Contractor, Freedom Fire Pro</i><br><i>Design-Build Contractor to Submit Sprinkler/Alarm documents</i><br><i>Issued under separate cover</i> |                                |
| PLUMBING  |                                |
| P0.0  | PLUMBING NOTES, ABBREV. SYMB   |
| P1.0  | PLUMBING DETAILS, SCHEDULES    |
| P2.0  | PLUMBING PLANS, ISO RISERS     |
| P3.0  | PLUMBING SPECIFICATIONS        |
| MECHANICAL  |                                |
| M0.0  | MECHANICAL NOTES, SYMBOLS      |
| M1.0  | MECHANICAL SCHEDULES           |
| M2.0  | MECHANICAL PLAN                |
| M3.0  | MECHANICAL DETAILS             |
| M4.0  | MECHANICAL SPECIFICATIONS      |
| ELECTRICAL  |                                |
| E0.0  | ELECTRICAL SPECIFICATIONS      |
| E0.1  | ELECTRICAL NOTES, SYMBOLS      |
| E1.0  | ELECTRICAL OVERALL PLAN        |
| E1.1  | ELECTRICAL POWER PLAN          |
| E2.0  | ELECTRICAL LIGHTING, NOTES     |
| E3.0  | ELECTRICAL PANELBO NOTES       |

## GENERAL NOTES

- THIS PROJECT DELIVERY METHOD IS BY A PRESELECTED BUILDING CONTRACTOR AS "Design-Build". GENERAL CONTRACTOR WILL HOLD CONTRACT WITH THE PROJECT OWNER. THE OWNER IS PACKAGING SPECIALTIES, LLC Fayetteville, AR. THE ARCHITECT IS PROVIDING PROFESSIONAL SERVICES PER AN DESIGN-BUILDER AND DESIGN CONSULTANT CONTRACT. CONSTRUCTION SUPERVISION AND/OR ADMINISTRATION SERVICES ARE "Periodic" G.C. TO ADVISE OF ALL CONSTRUCTION RELATED ISSUES DIRECTLY TO THE ARCHITECT IN WRITING USING THE R.F.P. FORMAT. THE PROJECT CONSTRUCTION IS TO MEET ALL THE REQUIREMENTS IN THE DRAWINGS.
- GENERAL CONTRACTOR WILL SCHEDULE AND COORDINATE ALL CONSTRUCTION ACTIVITIES AND REVIEW WITH THE OWNER'S REPRESENTATIVE. CONSTRUCTION MEANS AND METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR IN COORDINATION WITH QUALITY WORKMANSHIP STANDARDS BY ALL THE CONTRACTORS.
- SAFETY PRECAUTIONS AND PROGRAMS REGULATED BY LOCAL, STATE AND O.S.H.A. ARE TO BE STRICTLY ENFORCED BY EACH CONTRACTOR. THE CONTRACTORS ARE TO ENFORCE STRICT POLICIES AGAINST DRUG AND ALCOHOL USE IN THE CONTRACTOR'S WORKFORCE.
- ALL CONSTRUCTION ACTIVITIES, STAGING, TRAILERS AND TRAFFIC ARE TO BE RESTRICTED ON THE SITE AS DIRECTED. PROJECT SITE AND PROTECTION OF GENERAL PUBLIC IS TO BE CONSIDERED TOP PRIORITY. SAFETY OF THE PROVIDE TEMPORARY SECURITY FENCES- BARRICADES TO PREVENT UNAUTHORIZED ACCESS INTO THE DESIGNATED CONSTRUCTION AREA.
- THE GENERAL CONTRACTOR IS TO KEEP THE CONSTRUCTION PREMISES AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE MATERIALS AND DEBRIS CAUSED BY THEIR RESPECTIVE OPERATIONS.
- THIS IS AN DOCK ADDITION PROJECT ON THE EXISTING BUILDING'S EXTERIOR SOUTH WALL. THE G.C. IS TO COORDINATE ALL EXISTING CONDITIONS OF THE BUILDING WITH THE BUILDING OWNER'S REQUIREMENTS. GENERAL CONTRACTOR IS TO COORDINATE ALL CONSTRUCTION- PHASED SEQUENCING AND SITE STAGING ALONG WITH ANY ADDITIONAL OWNER REQUIRED IMPROVEMENTS.

## LOCATION MAP



Fayetteville, Arkansas [Southeast]  
1755 & 1767 S. Armstrong Ave  
Fayetteville, Arkansas 72701

Document Date: November 5, 2025  
Issue Date: December 2, 2025  
Revisions:



I HEREBY CERTIFY THESE CONSTRUCTION DOCUMENTS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE DOCUMENTS ARE AS REQUIRED BY LAW AND ARE IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS. Arkansas Fire Prevention Code Vol. 1 I-303

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IN ADDITION TO THIS SHEET, A LIFE SAFETY PLAN IS REQUIRED TO BE SUBMITTED AND SHALL INCLUDE: FIRE EXTINGUISHER LOCATIONS, EXIT AND EMERGENCY LIGHTING, ALL EGRESS COMPONENTS

1 BUILDING PLANNING & DESCRIPTION

THE PROJECT KNOWN AS

(MUST BE THE NAME OF BUSINESS/DBA IF BUILDING IS FOR A SPECIFIC COMPANY)

Packaging Specialties, LLC Dock Addition - Receiving Office Phase 1

ADDRESS: 1755 & 1767 S Armstrong Ave
CITY, ST: Fayetteville, Arkansas ZIP CODE: 72701 SUITE:

NEW CONSTRUCTION SHELL BUILDING
TENANT FINISHOUT CHANGE OF OCCUPANCY
SUBSTANTIAL IMPROVEMENT OTHER: Addition to existing Building

MIXED OCCUPANCY
SINGLE OCCUPANCY SEPARATED USE NON-SEPARATED USE
TYPE OF CONSTRUCTION: II B
HEIGHT LIMITATION: 55 ft AREA LIMITATION: 15,500 SF
FRONTAGE INCREASE CALCULATIONS ARE SHOWN ON SHEET: CS-1
GROSS SQUARE FOOTAGE: 62,841 #OF FLOORS: 1 HEIGHT: 22ft

LIST BELOW THE PURPOSE/USE OF THE BUILDING OR AREA BEING REVIEWED. INCLUDE DETAILS ON THE PRODUCTS/MATERIALS BEING STORED/FABRICATED AND NOTE HOW THEY ARE BEING PACKAGED.

Printed plastic film materials storage on cardboard roll tubes on wooden pallets. Processing plastic bag packaging materials by forming zipper seals.

2 OCCUPANCY TYPE AND LOAD

Table with columns for occupancy classification types (A-1, A-2, A-3, A-4, A-5, B, E, F-1, F-2, H-1, H-2, H-3, H-4, H-5, I-1, I-2, I-3, I-4, M, R-1, R-2, R-3, R-4, S-1, S-2, U) and checkboxes.

BREAK DOWN AREAS AND OCCUPANT LOADS PER FLOOR

Table with columns: OCC CLASS, SPECIFIC USE, SQUARE FOOTAGE, SF PER OCCUPANT, DESIGN OCCUPANTS. Includes rows for F-1 (Printing processing plastic film packaging) and S-1 (Storing rolls of plastic film on pallets).

3 MEANS OF EGRESS

Table with columns: MEANS OF EGRESS, # OF REQUIRED EXITS, # OF EXITS PROVIDED, SHEET #. Includes rows for STAIRWAYS (PER FLOOR) and EGRESS @ 1ST FL OR LSBO.

STAIRWAYS (SECTION 1011 IFC 2021) MINIMUM CLEAR WIDTH SHOWN ON: n/a (EACH STAIRWELL)

EGRESS WIDTHS ARE SHOWN ON: n/a ACCESSIBLE AREAS OF REFUGE & 2-WAY COMMUNICATIONS SHOWN ON: n/a

EXIT SIGNS/EGRESS ILLUMINATION (SECTION 1008 & 1013 IFC 2021) REQUIRED AND SHOWN ON: CS-1 E

EXIT TRAVEL DISTANCE (TABLE 1017.2 IFC 2021)

Table with columns: OCCUPANCY TYPE, MAX TRAVEL DISTANCE, PROVIDE TRAVEL DISTANCE, SHEET #. Includes rows for F1 and S1.

ELEVATORS NEW EXISTING ELEVATOR KEYBOX LOCATED IN LOBBY? (MUST BE WITHIN 20' OF THE CALL BUTTON)

4 FIRE PROTECTION SYSTEMS

PORTABLE FIRE EXTINGUISHERS (SECTION 906 IFC 2021) PROVIDED AS NOTED ON: CS-1, NUMBER PROVIDED: 27

ALL FIRE PROTECTION PLANS SHALL BE SUBMITTED BY AN ARKANSAS LICENSED CONTRACTOR FOR APPROVAL (I.E. SPRINKLER SYSTEM, FIRE ALARM SYSTEM, STANDPIPE, AND FIRE PUMP ROOM) SUBMIT TO THE CITIZEN SELF-SERVICE (CSS) PORTAL.

AUTOMATIC FIRE SPRINKLER SYSTEM ALL SPRINKLERS SHALL COMPLY WITH MONITORING (SECTION 903 IFC 2021)

SYSTEM PROVIDED: NFPA 13, NFPA 13R, NFPA 13D, OTHER:

FIRE DEPARTMENT ACCESS TO SPRINKLER CONTROLS: SPRINKLER RISER ROOM OR POST INDICATOR VALVE SHOWN ON: Civil Sheets

SUPPRESSION SYSTEM PROVIDED (SECTION 904 IFC 2021) COMMERCIAL KITCHEN - EXHAUST HOOD WITH SUPPRESSION SHOWN ON: PAINT BOOTH SUPPRESSION SHOWN ON: OTHER: NOT REQUIRED

STANDPIPE SYSTEM & HOSE CONNECTIONS (SECTION 905 IFC 2021) (I.E. IN STAIRWAYS, STAGES, MALLS)

FIRE ALARM & DETECTION SYSTEMS (SECTION 907 IFC 2021) AUTOMATIC WITH SMOKE COVERAGE ELEVATOR RECALL - SUPERVISORY

HVAC & AIR DISTRIBUTION SYSTEM CONTROLS (SECTION 907.2.13.1.2 IFC 2021) SMOKE DETECTORS PROVIDED TO SHUT DOWN UNITS OVER 2,000 CFM PROVIDED ON: Existing

SMOKE CONTROL SYSTEMS (SECTION 909 IFC 2021) (I.E. FOR HIGH RISE, ATRIUMS OR STAIRWAY PRESSURIZATION)

SMOKE & HEAT VENTILATION (SECTION 910 & 910.3 IFC 2021) CALCULATIONS PROVIDED AS NOTED ON: NOT REQUIRED PER SECTION 910

NOTE: WHERE AREAS OF THE BUILDING ARE EQUIPPED WITH EARLY SUPPRESSION FAST-RESPONSE (ESFR) SPRINKLERS, AUTOMATIC SMOKE AND HEAT VENTS SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS, MEETING LOCAL JURISDICTION REQUIREMENTS.

5 FIRE-RESISTANCE RATE CONSTRUCTION

SHOW DETAILS OF FIRE WALLS OR FIRE BARRIERS MEETING HORIZONTAL WALLS AND ROOF DECKS (SEE SECTION 706.5, 706.6 & 707.5 IBC 2021) (PROVIDE PENETRATION DETAILS ALSO) FIRE-RESISTANCE RATING REQUIREMENTS (TABLES 601, 705.5 & 705.8 IBC 2021)

Table with columns: BUILDING ELEMENTS, HOURS REQUIRED, HOURS PROVIDED, UL OR IBC STANDARD USED & DESIGN DETAIL SHOWN ON. Includes rows for STRUCTURAL FRAME, EXTERIOR BEARING WALLS, EXTERIOR NON-BEARING WALLS, INTERIOR BEARING WALLS, INTERIOR NON-BEARING WALLS, FLOOR CONSTRUCTION, ROOF CONSTRUCTION, STAIRWELLS, ELEVATOR SHAFTS, CORRIDORS, FIRE RATED DOORS, DEMISING/PARTITION WALL, FIRE BARRIER, FIRE WALL, DRAFTSTOPS, HAVE YOU CHECKED WIDTH OF OPENINGS IN FIRE RATED WALLS?, FIRE SEPARATION DISTANCE, ROOF COVERING.

6 WATER SUPPLY (FOR FIREFIGHTING)

62841sf GROSS SIZE OF BUILDING IN SQUARE FEET (INCLUDE ALL OVERHANGS UNDER ROOF) PUBLIC WATER SUPPLY WITH FIRE HYDRANTS

NUMBER OF HYDRANTS WITHIN 400 FT (NON-SPRINKLED) OR 600 FT (SPRINKLED) OF BUILDING: 2 SHOWN ON: Civil Sheet REQUIRED GPM: 5250 DURATION: 4 Hrs (TABLE B105.1 / TABLE B105.2 IFC 2021) 75% REDUCTION? YES NO (MUST MAINTAIN MIN OF 1,000 GPM (nfpa 13) OR 1,500 GPM (nfpa 13R))

7 FIRE LANE ACCESS

FIRE LANE LAYOUT PLAN, WHICH SHALL INCLUDE THE SITE PLAN, THE FIRE LANE & FIRE HYDRANTS, IS SHOWN ON: Civil Sheet (HIGHLIGHT THE FIRE HYDRANT LOCATIONS ON THE PLANS) AERIAL ACCESS LAYOUT, FOR BUILDINGS OVER 30 FT, IS SHOWN ON: n/a

FIRE LANES WILL BE APPROVED CONCEPTUALLY DURING THE TECH PLAT REVIEW PROCESS. HOWEVER, THE FIRE CODE PLAN REVIEWER MAY CHANGE THE FIRE LANE LAYOUT BASED ON THE BUILDING SPECIFICATIONS.

8 INTERIOR FINISH

Table with columns: OCCUPANCY GROUP, EXIT ENCLOSURES AND EXIT PASSAGEWAYS, CORRIDORS, ROOMS AND ENCLOSED SPACES, SHEET #. Includes rows for F1 and S1.

A COPY OF THE APPROVED CONSTRUCTION PLANS MUST BE KEPT AT PROJECT SITE FOR THE FINAL INSPECTION OF THE BUILDING

APPLICANT CERTIFICATION

I, Dan Townsley, A LICENSED PROFESSIONAL ENGINEER/ARCHITECT IN THE STATE OF ARKANSAS DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I AM A DESIGNER OF RECORD FOR THIS PROJECT. THE PROJECT CONSISTS OF DRAWING SHEETS THROUGH CS.1 A1.0 A ENGINEERING FIRM Dan Townsley, ARCHITECT FIRM# 2668

DANIEL L. TOWNSLEY REGISTERED ARCHITECT 2668 ARKANSAS 11/24/2025 SIGNATURE DATE

9 STORAGE: STANDARD & HIGH PILED

PRODUCTS BEING STORED: STORAGE PACKAGING (I.E. PALLETS, RACKS, SOLID PILED, DRUMS, CARDBOARD BOXES, WRAPPED IN PLASTIC, ETC.); Plastic Film on cardboard rolls, palletized
MAXIMUM HEIGHT OF COMMODITY: 12ft
\*\*\*THIS BUILDING IS DESIGNED FOR THE INTENT OF HIGH PILED STORAGE.

10 HAZARDOUS MATERIALS

\*\*\*THIS BUILDING IS DESIGNED FOR THE INTENT OF HAZARDOUS MATERIAL STORAGE. IF YES, THEN PROVIDE ALL HMIS SUMMARY AND MSDS REPORTS. EMERGENCY ALARM SYSTEM REQUIRED PER SECTION 5004.9 IFC 2021 VENTILATION WITH EMERGENCY ALARM STAND BY POWER PER SECTION 5004.3 AND 5004.7 IFC 2021 SPILL CONTROL AND SECONDARY CONTAINMENT PER SECTION 5004.2 IFC 2021

11 SPECIAL CONDITIONS

ATRIUM(S) PER 404 IBC 2021? PAINT SPRAY BOOTHS, COATINGS, DIPPING OR INDUSTRIAL OVENS USED PER 2404, 2405, 2406 AND CHAPTER 30 IFC 2021? ANY FUEL STORAGE TANKS PER 5704 IFC 2021? HEALTH DEPARTMENT APPROVAL? REQUIRED FOR ALL ESTABLISHMENTS THAT SERVE/PREPARE FOOD AND BEVERAGES FOR THE PUBLIC OR HAVE REFRIGERATED FOOD STORAGE. SEPTIC SYSTEM? SUBMIT PLANS TO WASTEWATER FOR REVIEW. PUBLIC UTILITIES? BUILDINGS WITHOUT OPENINGS PER 903.2.11.1 IFC 2021? MEDICAL GAS PER 5306 IFC 2021? FIRE PUMP EMERGENCY STANDBY POWER? OTHER:

OFFICIAL USE ONLY

PROJECT NUMBER: IFC/IBC 2021

FIRE MARSHAL'S OFFICE

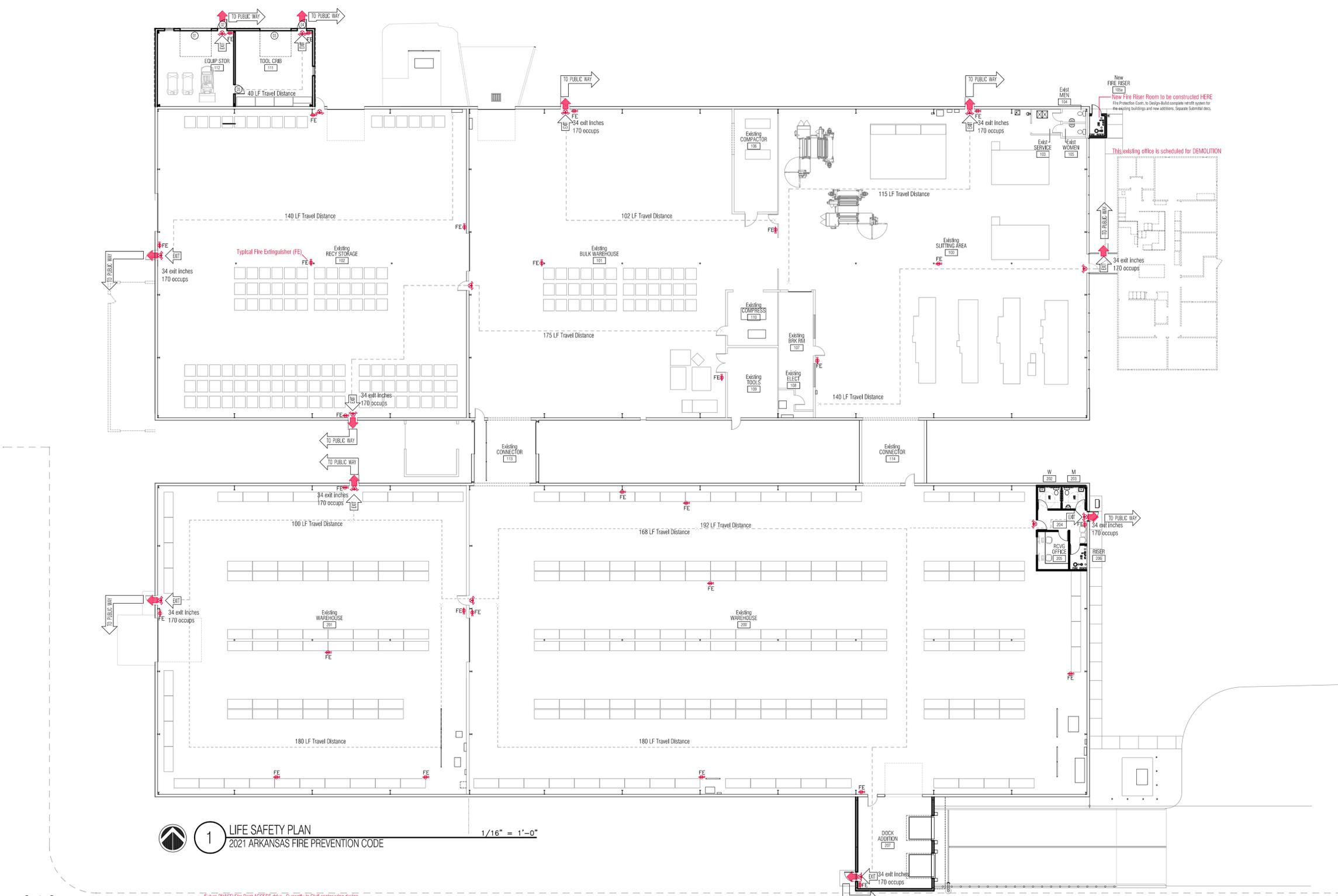
APPROVED BY THE FAYETTEVILLE FIRE MARSHAL FOR THE PURPOSES LISTED

THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS, HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER/ ARCHITECT LICENSED TO PRACTICE IN THE STATE OF ARKANSAS, WHICH THEREFORE CONVEYS THE PROFESSIONAL'S RESPONSIBILITY AND ACCOUNTABILITY. THIS ACCEPTANCE DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH ANY OTHER LEGAL ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT.

DENIED BY: DATE:

Table with columns: REVISIONS (DO NOT USE THIS BLOCK UNTIL AFTER PERMIT IS ISSUED), DATE, SHEET NO.(S), DESCRIPTION, REVIEWER. Includes SHEET NUMBER OF





**1 LIFE SAFETY PLAN**  
2021 ARKANSAS FIRE PREVENTION CODE  
1/16" = 1'-0"

**Codes for City of Fayetteville, AR**

- 2021 Arkansas Fire Prevention Code Vol. I (2021IBC w/ Arkansas Amendments)
- 2021 Arkansas Fire Prevention Code Vol. II (2021 IBC w/ Arkansas Amendments)
- 2021 Arkansas Fire Prevention Code Vol. III (2021 IRC w/ Arkansas Amendments)
- 2018 Arkansas State Plumbing Code (APC)
- 2018 Arkansas State Fuel and Gas Code
- 2021 Arkansas Mechanical Code (AMC)
- 2020 National Electric Code (NEC)
- 2014 Arkansas Energy Code (2009 IECC)
- 2017 ANSI A117.1
- 2021 Property Maintenance Code
- 2021 International Swimming Pool and Spa Code NFPA (as applicable)
- City of Fayetteville Adopted Ordinances



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**Planning / Zoning**  
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General Contractor:



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Rogers, Arkansas 72758  
479.659.7800

**Dock Addition Recvg Office**



1755 & 1767  
S Armstrong Ave  
Fayetteville, Arkansas

Sheet Contents:  
LIFE SAFETY PLAN

**Code Summary**

**Building Occupancy**  
Use and occupancy classification F1,S1  
Building is constructed per IBC 508.3.2 for Non-separated Uses

**Building Construction**  
IBC Table 503  
Construction Type II B, Non-Sprinklr (to be Fully Sprinklered next Phase)  
Area Allowed 15,500 SF Single story, Level Floor  
Building Height Allowed 55 feet 22 feet (highest elevation)  
Number of Stories Allowed 2 1

**Building Area**  
BUILDING AREA LIMITATIONS: "ALLOWABLE" AND "ACTUAL"  
Area limitations for F1, S1 Type II B  
Allowed Area per Table 506.2: F-1 = 15,500 SF S-1 = 17,500 SF  
Frontage Area Increase Multiplier 75%  
Auto Sprinkler Area (retrofit) increases allowable (Future PHASE) 62,000 SF  
Total Allowable Floor Area per floor after Fire Sprinkler is ADDED 73,625 SF  
Building Area (existing + new enclosed Dock, riser Rm) 62,841 SF  
Building Area is within limit parameters after Fire Sprinklers ADDED 62,841 SF < 73,625 SF ✓

**Building Construction Type/Ratings**  
Fire resistance of Exterior Walls Based on Fire Separation Distance IBC Table 601  
Distance 10' < 30' Rating = 0 hr  
Opening Protection = 0 hr

| Fire Resistance Rating Requirements         | IBC Table 602         | Rating Required | Rating | Provided |
|---|-----------------------|-----------------|--------|----------|
| Structural Frame                            | 0 hr 0 hr             |                 |        |          |
| Bearing Walls - EXTERIOR                    | 0 hr none in building |                 |        |          |
| INTERIOR                                    | 0 hr 0 hr             |                 |        |          |
| Non-Bearing Walls and Partitions - EXTERIOR | 0 hr 0 hr             |                 |        |          |
| Non-Bearing Walls and Partitions - INTERIOR | 0 hr 0 hr             |                 |        |          |
| Floor Construction                          | 0 hr 0 hr             |                 |        |          |
| Roof Construction                           | 0 hr 0 hr             |                 |        |          |

Building is constructed per IBC 508.3 for Non-Separated Uses  
Use and occupancy classification is F-1 & S-1

**Occupant Load**  
Minimum Occupant Load IBC 2021 Table 1004.4.5  
Maximum Floor Area Allowance per Occupant  
ALL Grade Level  
F1 Industrial areas = 100 gross sf/occupant 29,933 sf gross = 299 occupants  
S1 Warehouse area = 500 gross sf/occupant 31,594 sf gross = 63 occupants  
Grade Level Occupancy Load total 362 occupants

**Building Means of Egress**  
Minimum no. of Exits IBC 2021 Table 1006.3.3 = 2  
Number of Provided Exits = 9 ✓  
Required Capacity of Exits  
Grade level:  
362 Occupants x 0.15/occupant = 54 exit inches required  
Capacity provided:  
(9) 3 ft wide opening 3'-0" door: 9 x 34 net inches = 306 exit inches  
Exit Capacity provided total 309 Exit inches ✓  
Maximum Allowable Travel Distance = 250 lf (F1 & S1, Fully sprinklered)  
Maximum Actual Travel Distance = 192 lf ✓

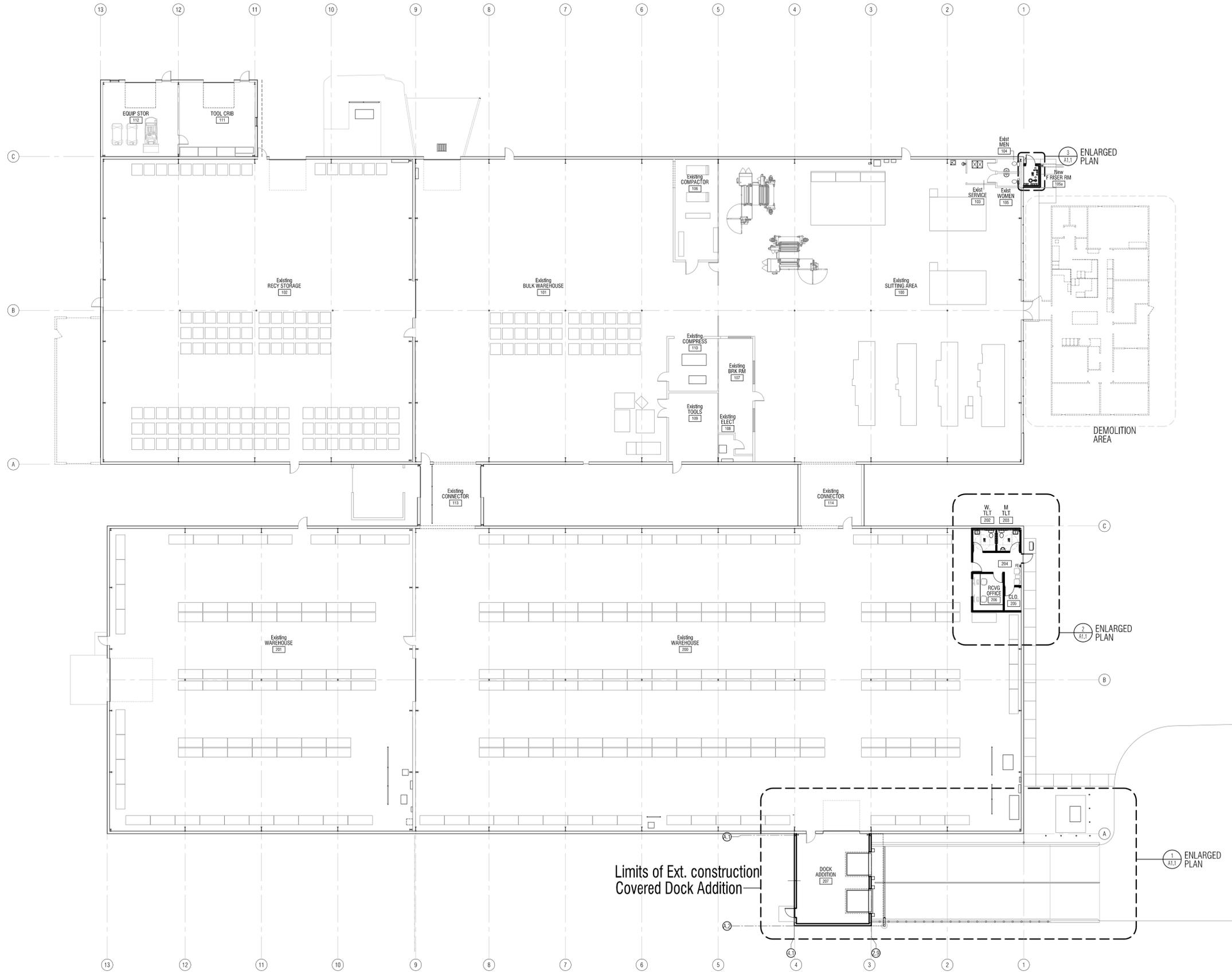
**Plumbing Fixture Count per APC** (IPC 403.1.1 & APC 1004.5)  
(Occupancy is determined based on 2021 AFPC Vol. II)

| Occupancy & Area Served       | F1' Factory 29,933 SF Gross Area         | S1' Storage 31,594 SF Gross Area                     |                 |                 |
|-------------------------------|--|--|-----------------|-----------------|
| Plumbing Occupant Load Factor | F = 100 SF Gross per occupant            | S = 500 SF Gross per occupant                        |                 |                 |
| Plumbing Occupant Load        | F1 29,933 SF Gross / 100 = 299 occupants | S1 31,594 SF Gross / 500 = 63 occupants at warehouse |                 |                 |
| Total Number of Fixtures      | Male Required                            | Male Provided  | Female Required | Female Provided |
| Water Closets Accessible      | 1  | 1  | 1               | 1               |
| Water Closets                 | 1  | 1  | 1               | 1               |
| Urinals                       | 1  | 1  | 1               | 1               |
| Lavatories Accessible         | 1  | 1  | 1               | 1               |
| Lavatories                    | 1  | 1  | 1               | 1               |
| Drinking Fountains Accessible | 1  | 1  | 1               | 1               |
| Standard Ht.                  | 1  | 1  | 1               | 1               |
| Service Sink                  | 1  | 1  |                 |                 |

Drawing Name: PacSpec DockAdd code.DWG  
Date: 11.05.25  
Revisions:

Sheet Number:

CS.1



**1** OVERALL BUILDING PLAN 1/16"=1'-0"

Limits of Ext. construction  
Covered Dock Addition



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General Contractor:

**NABHOLZ**  
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Dock Addition  
Recvg Office



1755 & 1767  
S Armstrong Ave  
Fayetteville, Arkansas

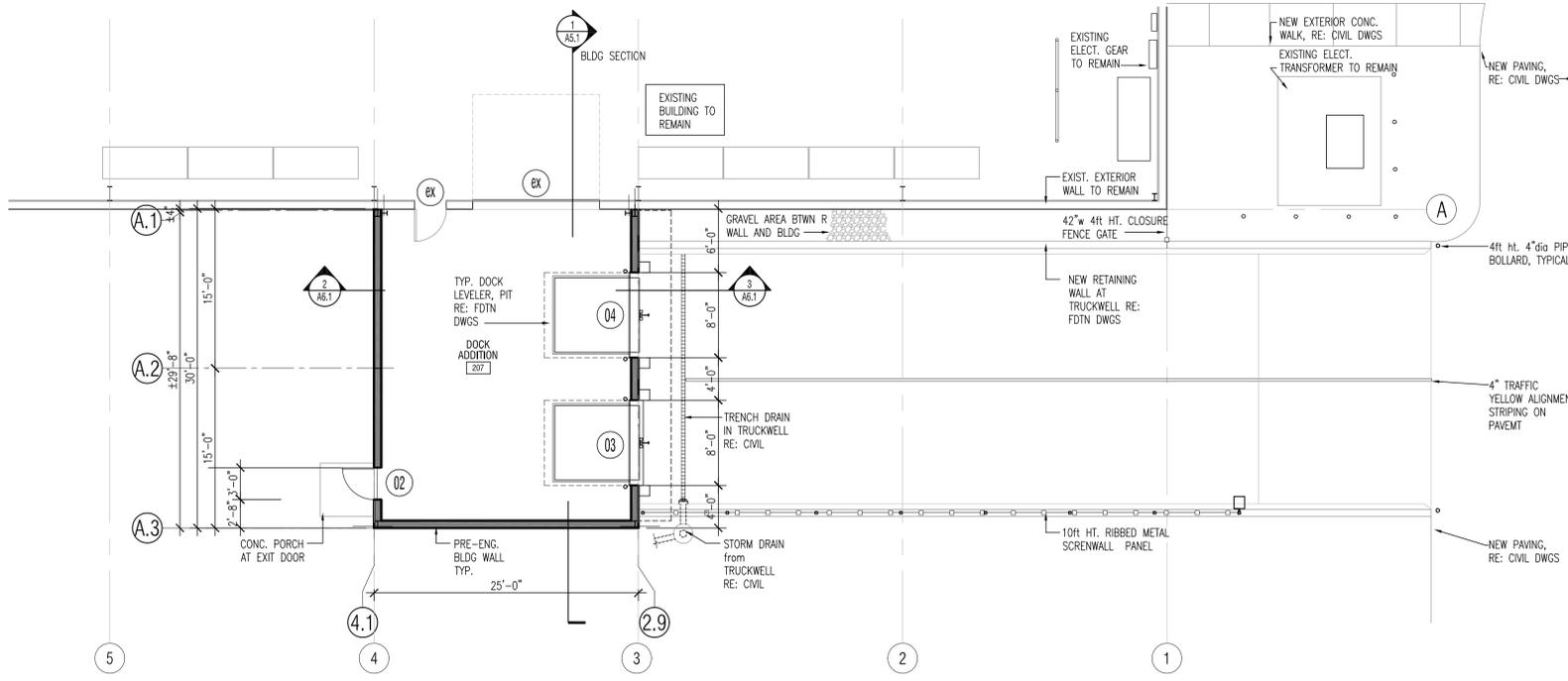
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OVERALL PLAN

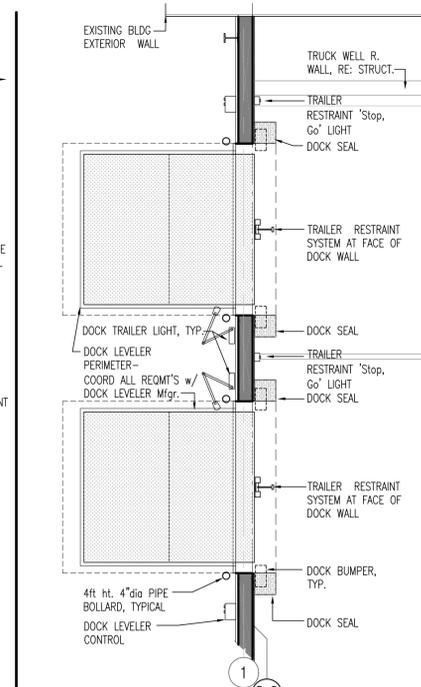
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Revisions:

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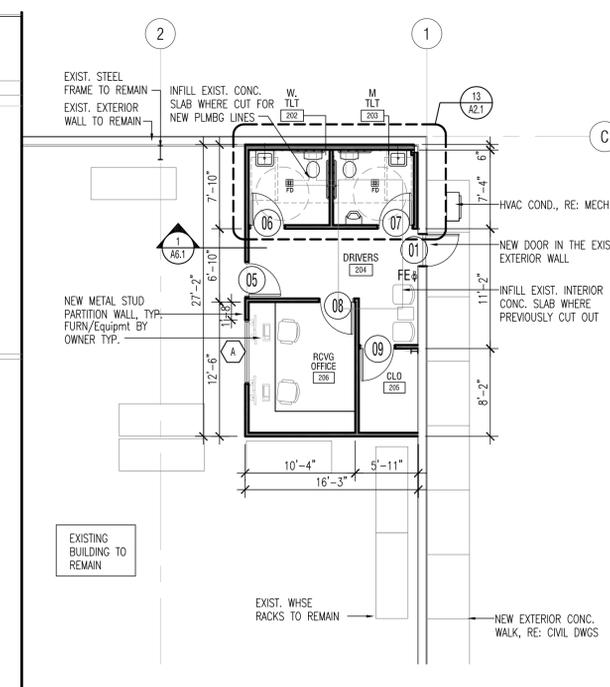
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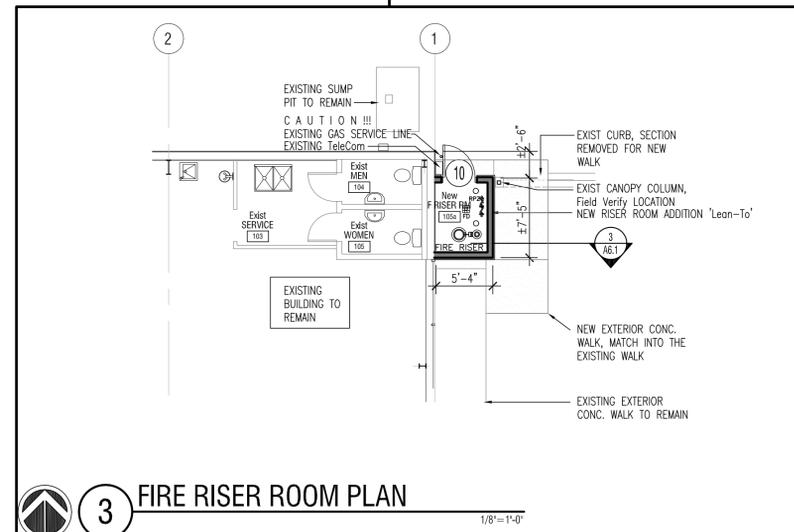
**1 DOCK ADDITION PLAN**  
1/8"=1'-0"



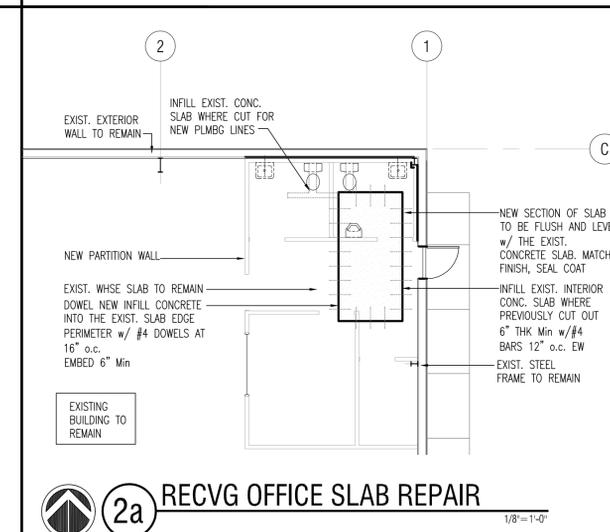
**1a DOCK DOOR PLAN**  
1/4"=1'-0"



**2 RECEIVING OFFICE PLAN**  
1/8"=1'-0"



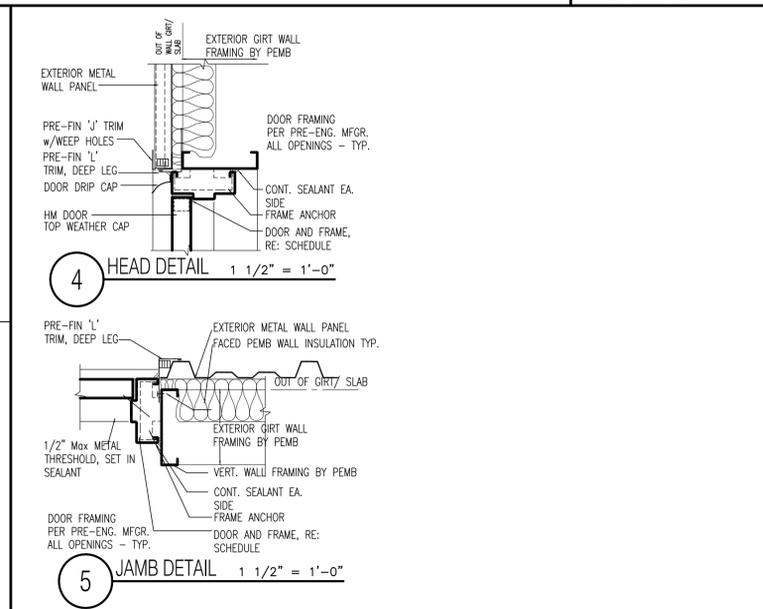
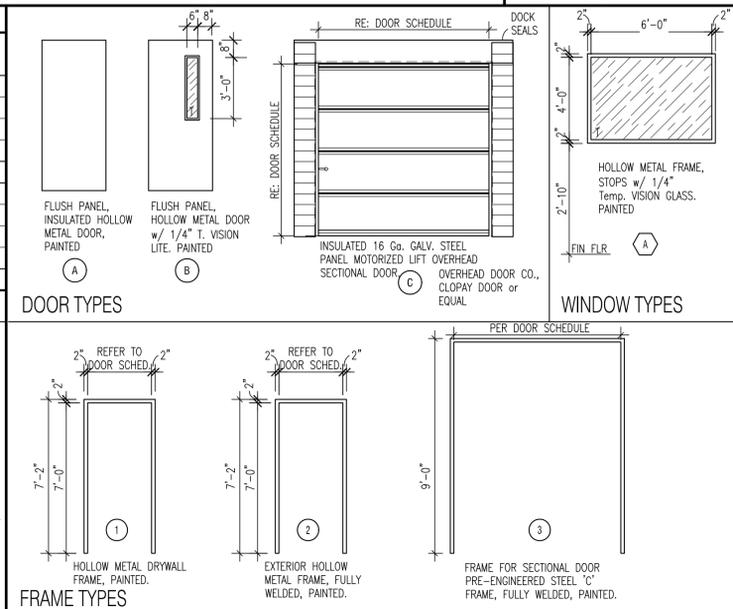
**3 FIRE RISER ROOM PLAN**  
1/8"=1'-0"



**2a RECVG OFFICE SLAB REPAIR**  
1/8"=1'-0"

| DOOR SCHEDULE |           |       |        |           |            |         |        |       |        |                |         |
|---------------|-----------|-------|--------|-----------|------------|---------|--------|-------|--------|----------------|---------|
| Mark          | Door Type | Width | Height | Thickness | Frame Type | Details | Jamb   | Sill  | Rating | Hardware Note  | Remarks |
| 01            | A         | 3'-0" | 7'-0"  | 1-3/4"    | 2          | 4/A1.1  | 5/A1.1 | ..... | .....  | 1,4,5,6,7,9,10 | 2,3,4,5 |
| 02            | A         | 3'-0" | 7'-0"  | 1-3/4"    | 2          | 4/A1.1  | 5/A1.1 | ..... | .....  | 1,5,6,7,9,10   | 2,3,4,5 |
| 03            | C         | 8'-0" | 9'-0"  | 1-1/4"    | 3          | .....   | .....  | ..... | .....  | 6,8,11         | 2       |
| 04            | C         | 8'-0" | 9'-0"  | 1-1/4"    | 3          | .....   | .....  | ..... | .....  | 6,8,11         | 2       |
| 05            | B         | 3'-0" | 7'-0"  | 1-3/4"    | 1          | .....   | .....  | ..... | .....  | 1,6            | .....   |
| 06            | A         | 3'-0" | 7'-0"  | 1-3/4"    | 1          | .....   | .....  | ..... | .....  | 3              | .....   |
| 07            | A         | 3'-0" | 7'-0"  | 1-3/4"    | 1          | .....   | .....  | ..... | .....  | 3              | .....   |
| 08            | B         | 3'-0" | 7'-0"  | 1-3/4"    | 1          | .....   | .....  | ..... | .....  | 2              | .....   |
| 09            | A         | 3'-0" | 7'-0"  | 1-3/4"    | 1          | .....   | .....  | ..... | .....  | 2              | .....   |
| 10            | A         | 3'-0" | 7'-0"  | 1-3/4"    | 2          | .....   | .....  | ..... | .....  | 2,5,6,9        | 3,4,5   |

| DOOR HARDWARE NOTES   | GENERAL HARDWARE NOTES   | REMARKS   |
|---|--|---|
| 1. PANIC BAR, CYLINDER LOCK<br>2. ENTRANCE LOCKSET<br>3. PRIVACY LOCKSET<br>4. DOOR VIEWER- Ultra Wide Angle<br>5. 1/2" MAX. HT. THRESHOLD<br>6. FULL WEATHERSTRIP<br>7. CLOSER w/ HOLD OPEN FUNCTION<br>8. SLIDE BAR LOCK BY DOOR MANUFACTURER<br>9. DRIP CAP AT DOOR HEAD<br>10. DOOR BOTTOM SWEEP SEAL<br>11. MOTORIZED LIFT | FINISH HARDWARE IS TO BE: SCHLAGE, STANLEY, TRIMCO, HAGER, IVES, NATIONAL GUARD, DORMA, ROCKWOOD, OR APPROVED EQUAL.<br>ALL HARDWARE FINISHES ARE TO BE: US2SD - SATIN CHROME.<br>LOCKSETS ARE TO BE: SCHLAGE, S SERIES, "JUPITER" LEVER STYLE, MASTER KEYED TO OWNER'S KEY SYSTEM.<br>FULLY WEATHERSTRIP ALL EXTERIOR DOORS.<br>THRESHOLDS AT EXTERIOR DOORS TO BE 1/2" MAX. HEIGHT | 1. FRAME TO ALLOW FULL 180° DOOR SWING TO WALL FACE.<br>2. SEAL /TRIM AROUND FRAME IN EXTERIOR OPENING.<br>3. FULLY WEATHERSTRIP FOR AIR INFILTRATION.<br>4. DOOR HEAD DRIP CAP TO BE INSTALLED ON FRAME w/ HARDWARE BY MFRGR.<br>5. PROVIDE LOW PROFILE DOOR THRESHOLD TO DIVERT WATER INTRUSION. INSTALL ON EXISTING CONCRETE w/ FULL SEALANT. GC TO COORD. INSTALLATION w/ EXISTING CONDITIONS |



**METAL BUILDING NOTES**

- METAL BUILDING MANUFACTURER (MBM) WILL PROVIDE A STEEL STRUCTURAL COMPONENTS TO MATCH THE EXISTING BUILDING. LOCATIONS AND SIZES OF STRUCTURAL MEMBERS ARE TO BE ALIGN w/ THE EXISTING STRUCTURAL SYSTEM AND ALL REQUIRED COMPONENTS. MANUFACTURER TO MEET CURRENT DESIGN LOADS.
- FABRICATION DRAWINGS SHALL BE PREPARED BY THE MANUFACTURER AND SHALL INCLUDE THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS, VERIFYING THAT THE BUILDING COMPONENTS DESIGN MEETS THE LOADING REQUIREMENTS OF THE 2021 IBC, SPECIFICATIONS AND CODES OF ALL AUTHORITIES HAVING JURISDICTION. THE DESIGN/BUILDER WILL BE RESPONSIBLE FOR REVIEWING THE SHOP DRAWINGS AND VERIFYING THAT THEY ARE CORRECT.
- THE PRE-ENG. STEEL COMPONENTS MANUFACTURER SHALL SUBMIT ANCHOR BOLT SETTING DETAILS FOR EACH COLUMN BASE CONDITION INCLUDING PLATE SIZE, ANCHOR BOLT SIZE, QUANTITY, AND LENGTH. SUBMIT ANCHOR BOLT LAYOUT PLAN SHOWING WHICH CONDITION IS USED AT EACH COLUMN LOCATION.
- THE MANUFACTURER SHALL SUBMIT COMPLETE ERECTION DRAWINGS SHOWING SIDEWALL, ENDWALL, ROOF FRAMING, WIND BRACING PROVISIONS, TRANSVERSE CROSS SECTION, COVERING AND TRIM DETAILS AND ACCESSORY INSTALLATION DETAILS TO CLEARLY INDICATE PROPER ASSEMBLY OF BUILDING COMPONENTS.
- ALL NEW COLUMN/FRAMES ARE TO BE DESIGNED FOR WIND, STATIC & LIVE LOADS. PROVIDE NEW WIND BRACING AT COLUMNS/GIRTS AT ENDWALLS AND AT ROOF RAFTER FRAMES/PURLINS.

REGISTERED ARCHITECT  
DANIEL L. TOWNSLEY  
ARKANSAS 11.05.23  
2668

**Dan Townsley ARCHITECT**

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**Dock Addition Recvg Office**

PACKAGING SPECIALTIES, INC.

1755 & 1767 S Armstrong Ave Fayetteville, Arkansas

Sheet Contents:

DOCK PLAN  
OFFICE/TLT PLAN  
DOOR SCHEDULE

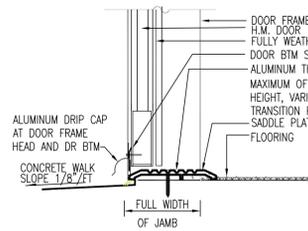
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Date: 11.05.23

Revisions:

Sheet Number:

**A1.1**

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**1 EXT. THRESHOLD** 3" = 1'-0"

RUBBER COLOR TO MATCH FIELD CARPET COLOR, OR AS SPECIFIED. REFERENCE FINISH PLAN FOR LOCATION.

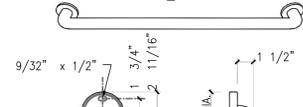


**2 INT. TRANSITION STRIP (NOT USED)** 3" = 1'-0"

**BOBRICK Technical Data B-6206 Series**

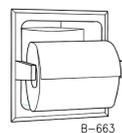
1 1/2" DIAMETER STAINLESS STEEL GRAB BARS WITH CONCEALED MOUNTING (1 1/2" clearance between grab bar and wall)

Finish required: satin finish [satin finish with peened gripping surface] add suffix .99 to model number.



13/32" x 29/32"  
Provide @ each accessible toilet area:  
1 - #B-6206.99 x 42" horiz.  
1 - #B-6206.99 x 36" horiz.  
1 - #B-6206.99 x 36" vert.

**3 H.C. GRAB BAR DETAILS** NO SCALE

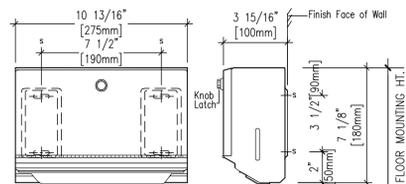


**BOBRICK #B-663 RECESSED TOILET PAPER HOLDER WITH STORAGE SPACE FOR EXTRA ROLL**

Unit type - 304 stainless steel, bright polished finish. Chrome-plated roller for standard-core toilet tissue rolls up to 5 1/8" (133mm) diameter (1500 sheets). Recessed mounting cabinet 3 15/16" (105mm) deep holds spare roll; secured to framed opening with four mounting screws. 6 1/4" wide, 6 1/4" high (159 x 159mm). Rough wall opening 5 1/2" wide 5 1/2" high 4" minimum depth (140 x 140 x 102mm) B-663 Similar to B-663, but with satin finish.

**4 RECESSED TISSUE HOLDER** NO SCALE

Provide ONE @ each accessible toilet

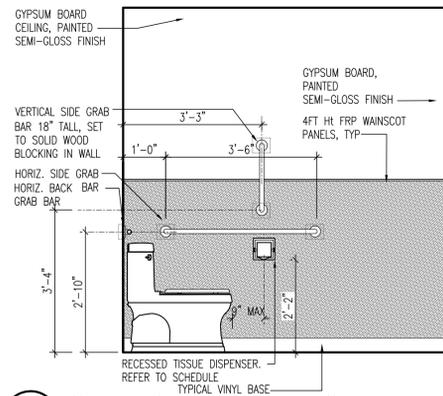


**BOBRICK #B-2621 SURFACE MOUNTED TOWEL DISPENSER**

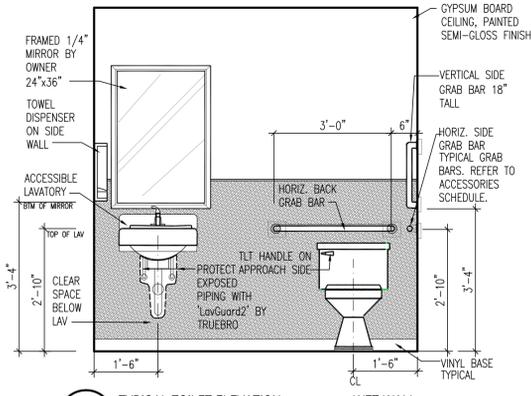
Unit type - CABINET-18-8, 22 ga, 304 stainless steel, satin finish. Full length stainless piano hinge, knob latch. DOOR-18-8, 22 ga, 304 stainless steel, satin finish. Full length stainless piano hinge, knob latch. OPERATION: Dispenses standard-C fold towels and multi fold towels 3 1/8" to 3 13/16" deep (200 C sheets 275 multifold). Surfaced mounting cabinet 10 13/16" X 7 1/8" X 3 15/16" Secured to solid backed framing with four #10 x 1 1/4" sheet metal screws

**5 TOWEL DISPENSER** NO SCALE

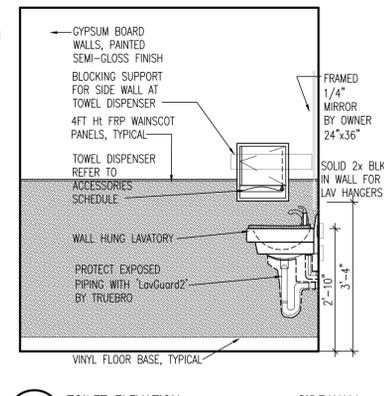
Provide ONE @ each accessible toilet



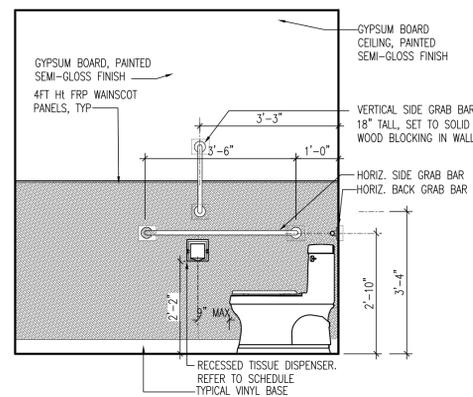
**6 TOILET ELEVATION** SIDE WALL 1/2" = 1'-0"



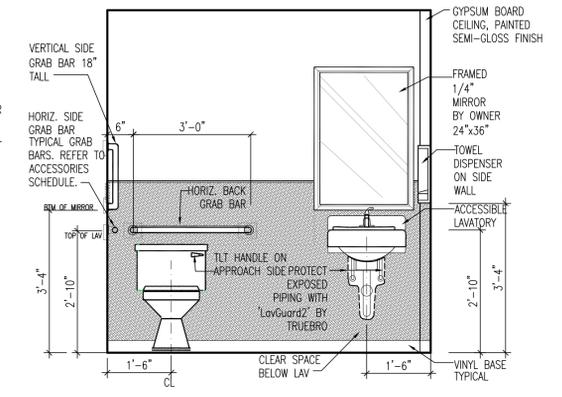
**7 TYPICAL TOILET ELEVATION** WET WALL 1/2" = 1'-0"



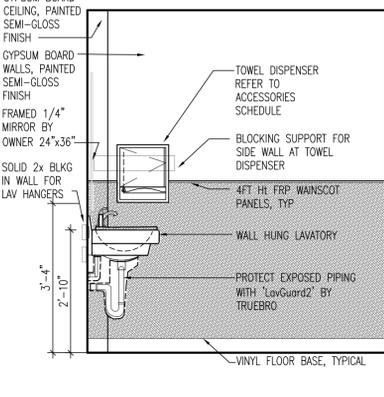
**8 TOILET ELEVATION** SIDE WALL 1/2" = 1'-0"



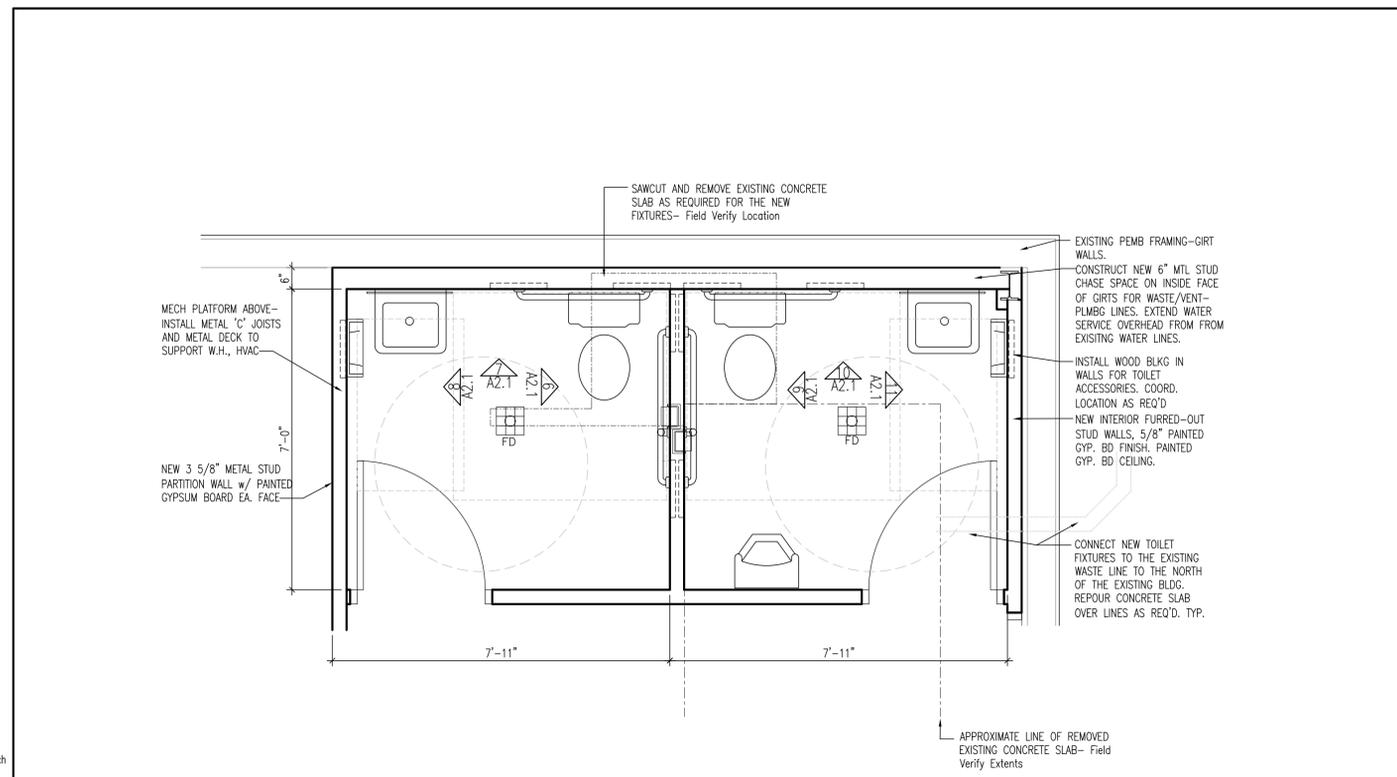
**9 TOILET ELEVATION** SIDE WALL 1/2" = 1'-0"



**10 TYPICAL TOILET ELEVATION** WET WALL 1/2" = 1'-0"



**11 TOILET ELEVATION** SIDE WALL 1/2" = 1'-0"

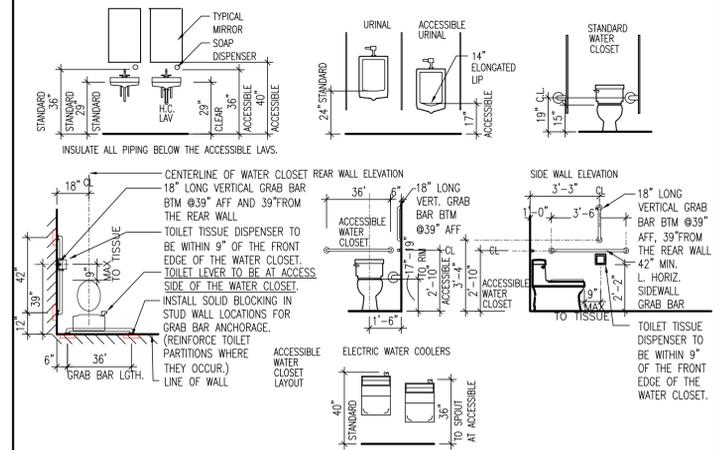


**13 ENLARGED TOILET PLAN** 1/2" = 1'-0"

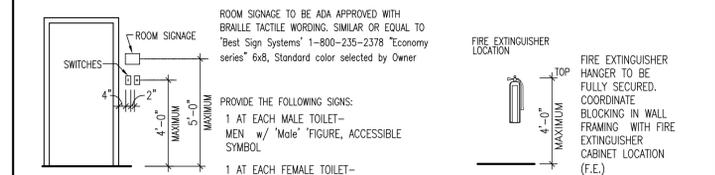
**ACCESSORIES SCHEDULE**

| ITEM NO. | DESCRIPTION                | MOUNTING HT.   | REMARKS   |
|----------|----------------------------|--|---|
| 1        | TOILET (STANDARD)          | 15" TO RIM   | REFER TO PLUMBING FIXTURE SCHED.  |
| 2        | TOILET (ACCESSIBLE)        | 17" TO RIM   | REFER TO PLUMBING FIXTURE SCHED.  |
| 3        | URINALS (STANDARD)         | 20" TO RIM   | N/A   |
| 4        | URINALS (ACCESSIBLE)       | 17" TO RIM   | N/A   |
| 5        | URINALS (FLOOR MOUNTED)    | -4" TO BASE  | N/A   |
| 6        | LAVATORIES (STANDARD)      | 29" TO BASE  | N/A   |
| 7        | LAVATORIES (ACCESSIBLE)    | 29" TO BASE  | N/A   |
| 8        | COUNTER LAVATORIES         | 34" TO RIM   | REFER TO PLUMBING FIXTURE SCHED.  |
| 9        | MIRRORS (STANDARD)         | 40" TO BASE  | N/A   |
| 10       | MIRRORS (ACCESSIBLE)       | 40" TO BASE  | REFER TO INTERIOR ELEVATION   |
| 11       | GRAB BARS                  | SIDE WALL Horiz. 33" TO CL<br>REAR WALL Horiz. 33" TO CL<br>SIDE WALL Vert. 40" TO BTM | BOBRICK NO. B-6206.99 x42 OR EQUAL BY BRADLEY<br>BOBRICK NO. B-6206.99 x36 OR EQUAL BY BRADLEY<br>BOBRICK NO. B-6206.99 x18 OR EQUAL BY BRADLEY |
| 12       | TISSUE DISPENSER           | 19" TO CL  | BOBRICK NO. B-667 OR EQUAL BY BRADLEY [ 1 PER W.C.]   |
| 13       | DUAL ROLL TISSUE DISPENSER | 19" TO BASE  | N/A   |
| 14       | SOAP DISPENSERS            | 34" TO BASE  | BY OWNER  |
| 15       | WATER COOLERS (STANDARD)   | PER MANUF.   | REFER TO PLUMBING FIXTURE SCHED.  |
| 16       | WATER COOLERS (ACCESSIBLE) | 36" TO SPOUT   | REFER TO PLUMBING FIXTURE SCHED.  |
| 17       | PAPER TOWEL DISPENSERS     | 44" TO BASE  | BOBRICK NO. B-2621 OR EQUAL BY BRADLEY [ 1 PER W.C.]  |

**FIXTURE HEIGHTS AND CLEARANCES**



**INTERIOR SIGNAGE SCHEDULE**



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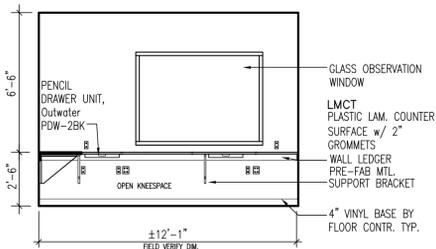
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TOILET PLAN  
TOILET ELEVATIONS

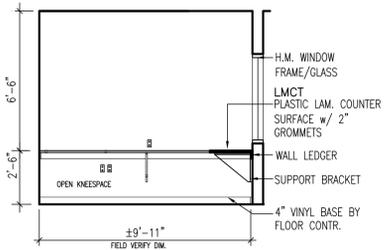
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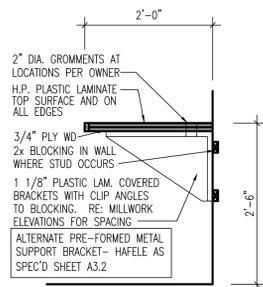
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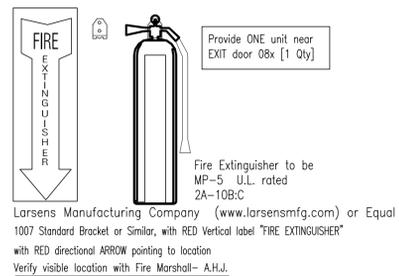
1 RECEIVING OFFICE WORK COUNTER 1/4"=1'-0"



2 RECEIVING OFFICE WORK COUNTER 1/4"=1'-0"



3 COUNTER SECTION 3/4"=1'-0"



5 FIRE EXTINGUISHER (in EXISTING Area) NO SCALE REFER TO PLANS FOR LOCATIONS- NOTED 'F.E.'

FINISH SCHEDULE

| Mark | Room Name                | Floor    | Base          | Walls    | Ceiling      | Clg. Ht. | Remarks |
|------|--------------------------|----------|---------------|----------|--------------|----------|---------|
| 200  | EXISTING WAREHOUSE, East | EXISTING | ExCS EXISTING | EXISTING | LP4 EXISTING | 9'-0"    | 1.2     |
| 201  | EXISTING WAREHOUSE, West | EXISTING | ExCS EXISTING | EXISTING | LP4 EXISTING | 9'-0"    | 1.2     |
| 202  | WOMENS TOILET            | CS CSx   | ExCS FB1      | WP2 FRP  | FPB          | 9'-0"    | 2.3     |
| 203  | MENS TOILET              | CS CSx   | ExCS FB1      | WP2 FRP  | FPB          | 9'-0"    | 2.3     |
| 204  | DRIVERS AREA             | CS CSx   | ExCS FB1      | WP1      | LP4 FPB      | 9'-0"    | 2.3     |
| 205  | CLOSET                   | CS       | ExCS FB1      | Fbmt     | LP4 FPB      | 9'-0"    | 1       |
| 206  | RECEIVING OFFICE         | CS       | ExCS FB1      | WP1      | FPB          | 9'-0"    |         |
| 207  | DOCK ADDITION            | CS       |               | Fbmt     | LP INS       | 9'-0"    |         |
| 105a | FIRE RISER ROOM ADDITION | CS       |               | Fbmt     | FPB          | 9'-0"    | 4       |

Finish Remarks  
 1. EXISTING METAL WALL LINER THIS ROOM TO REMAIN.  
 2. EXISTING CONCRETE FLOOR AREA IN THIS ROOM TO REMAIN.  
 3. AREAS OF EXISTING CONCRETE SLAB, WHERE REMOVED FOR NEW PLUMBING THIS ROOM TO HAVE CONCRETE REPAIRED AND SEALED TO MATCH ADJACENT FLOOR SEALER.  
 4. TAPE/SEAL FIBERGLAS MAT GYPSUM BOARD SHEATHING

FLOOR COVERINGS

**FLOOR BASE**  
 FB1 Coiled rubber cove base to be Johnsonite 4" cove wall base, Color to be #38 'PEWTER-CC' or Selected by owner from manufacturer's standard color range.

PLASTIC LAMINATES

LM CT Wilsonart # 4945-38 'ORGANIC COTTON' (LM CT at countertops). Apply to all counter faces, edges and exposed edge panels. Provide laminate backsplash, 4" height at Work Counters. Coordinate details with Owner and/OR submit shop drawings for review and approvals.

MISCELLANEOUS FINISHES

Electrical devices, switch plates and outlet plates to be 'WHITE' devices.  
 Interior doors are to be flush panel, honeycomb core (Insulated at Exterior), 18 ga steel with primed paint grade surface- field painted finish. Similar or equal to STEELCRAFT 'SL Series' Doors. Field finish point color will be selected from Mfg's standard paint colors. Submit finish sample for approval.  
 Interior door frames are to be primed, 16 ga steel, drywall frame. sim. OR Equal to STEELCRAFT  
 Exterior door frames are to be primed, 16 ga steel, welded frame. sim. OR Equal to STEELCRAFT 'F Series'.  
 Door hardware-Falcon, 'K' Series, 'DANE' satin chrome finish steel-US626D. Latch sets/ locksets to be LEVER style ADA compliant locksets. Provide matching finish Hager mortise hinges and/or miscellaneous hardware.

CEILINGS

**PAINTED GYPSUM BOARD CEILINGS**  
 Notes: Paint all gyp. bd. ceilings as indicated on finish schedule. Refer to reflected ceiling plans for gypsum board ceiling locations.  
 CP1 Ceiling paint to be Sherwin Williams 'Pure White' # SW 7005, flat finish latex. (used throughout on gyp. bd. ceilings)  
 Ceiling paint color selection to be verified with owner.

WALL FINISHES

**WALL PAINT**  
 Typical paint to be Sherwin Williams or Benjamin Moore egg-shell finish with stain resistance and cleaning ability. Use Semi-gloss at toilets areas. Painting contractor should apply a minimum of two coats coverage.  
 Wall texture to be very light orange peel texture to walls. Submit texture panel for approval. Match the existing walls

WALL FINISHES

ALL INTERIOR COLORS ARE TO BE VERIFIED BY THE OWNER.  
 WP1 Wall paint to be Sherwin Williams OR EQUAL by Benjamin Moore, egg-shell finish latex enamel. (Used throughout unless noted otherwise.) Number SW7004 'Snowbound'  
 WP2 Wall paint to be Sherwin Williams OR EQUAL by Benjamin Moore, semi-gloss finish latex enamel. (Color to be selected by Owner) Number SW7004 'Snowbound'  
 WP3 Trim paint to be Sherwin Williams OR EQUAL by Benjamin Moore, satin finish enamel. (All interior hollow metal door and door frames) Number SW7004 'Snowbound'

EXTERIOR PAINT

ALL EXTERIOR COLORS ARE TO BE VERIFIED BY THE OWNER.  
 WPext H.M. Door paint to be Sherwin Williams OR EQUAL by Benjamin Moore, satin finish enamel. (All exterior hollow metal door and door frames) Number SW-----  
 'Match to the Existing Metal Wall panel Color'



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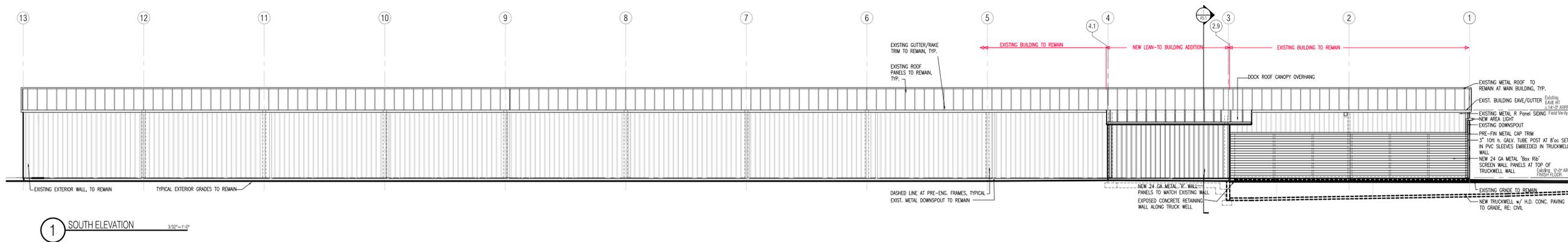
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FINISH SCHEDULE

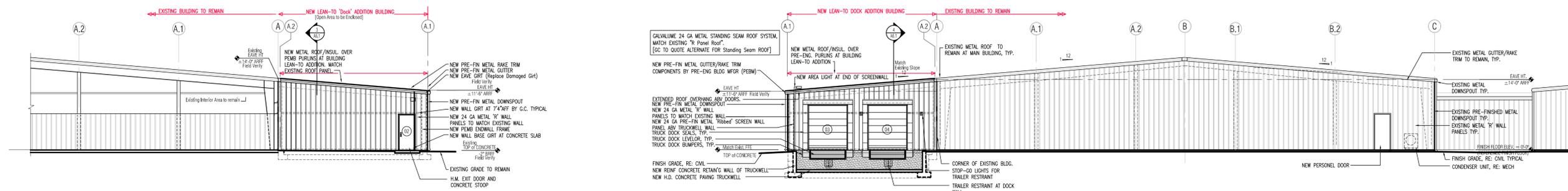
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Sheet Number:

A3.1

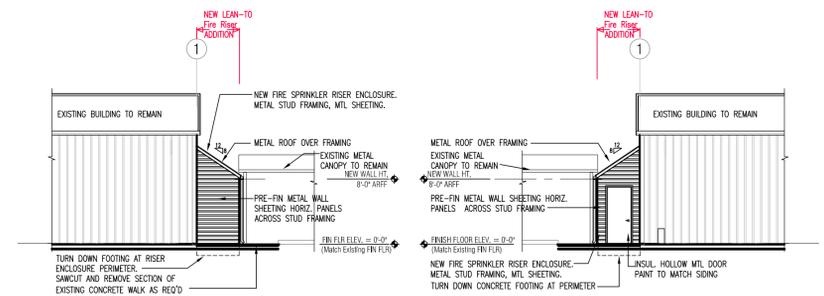


1 SOUTH ELEVATION 3/32"=1'-0"

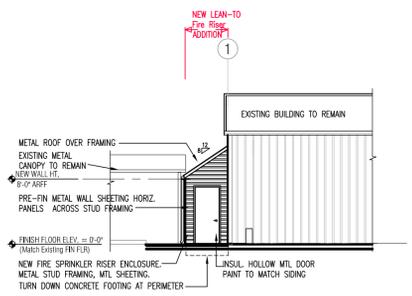


2 WEST ELEVATION AT LEAN-TO ADDITION 3/32"=1'-0"

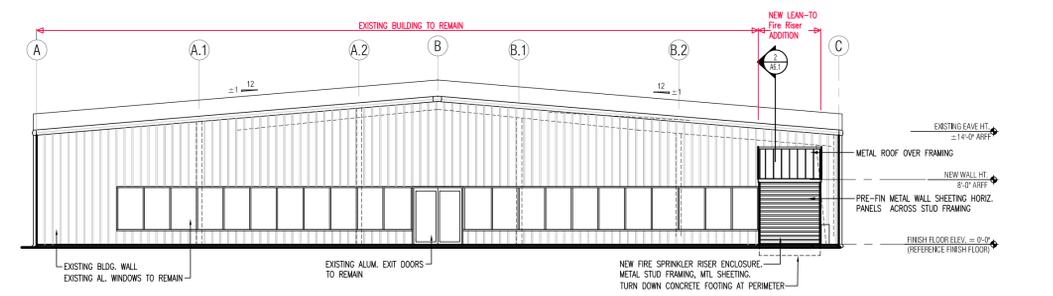
3 EAST ELEVATION 3/32"=1'-0"



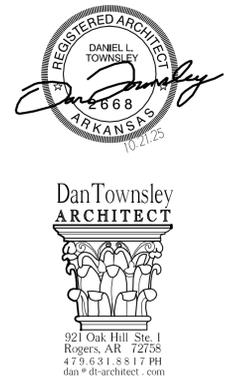
4 SOUTH ELEVATION AT RISER ADDITION 3/32"=1'-0"



5 NORTH ELEVATION AT RISER ADDITION 3/32"=1'-0"



6 EAST ELEVATION AT RISER ADDITION 3/32"=1'-0"



General Contractor:  
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Dock Addition  
 Recvg Office  
  
 1755 & 1767  
 S Armstrong Ave  
 Fayetteville, Arkansas

Sheet Contents:  
 EXTERIOR ELEVATIONS

Drawing Name: PacSpec DockAdd A4-1.DWG  
 Date: 10.20.25  
 Revisions:

Sheet Number:

A4.1



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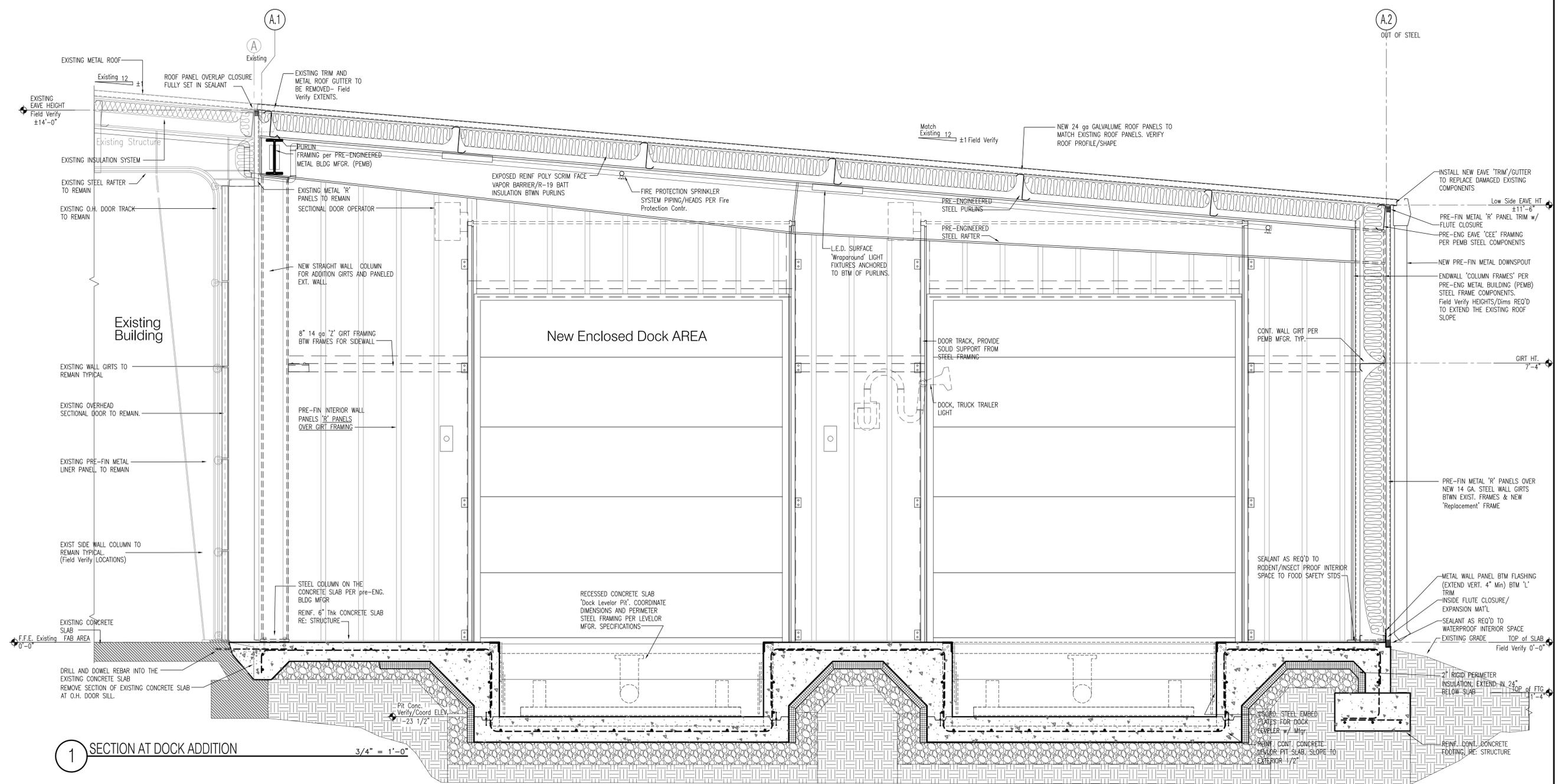
Sheet Contents:  
BUILDING SECTION

Drawing Name: PacSpec DockAdd A5-1.DWG  
Date: 11.05.25  
Revisions:

Sheet Number:

A5.1

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1 SECTION AT DOCK ADDITION

3/4" = 1'-0"



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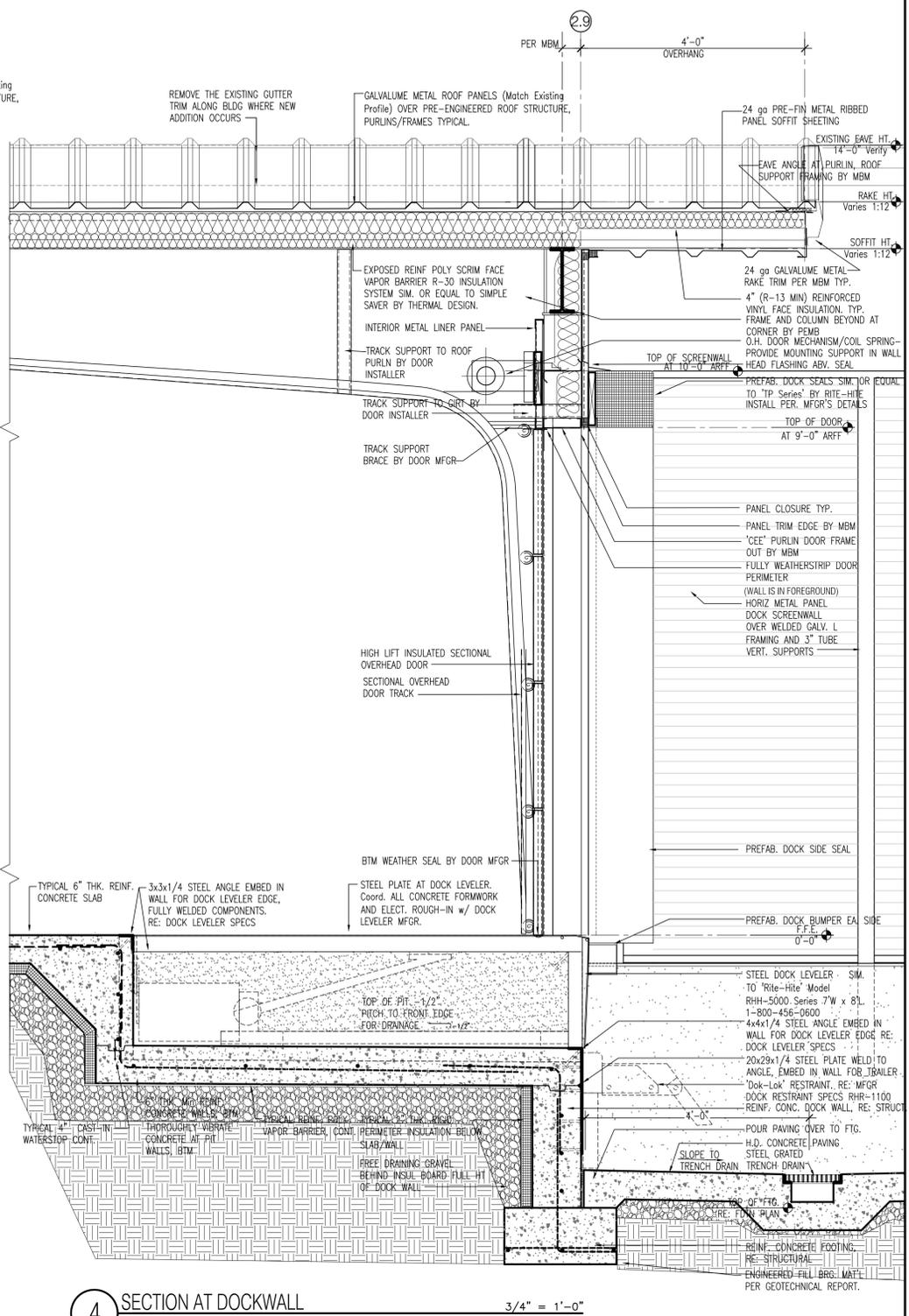
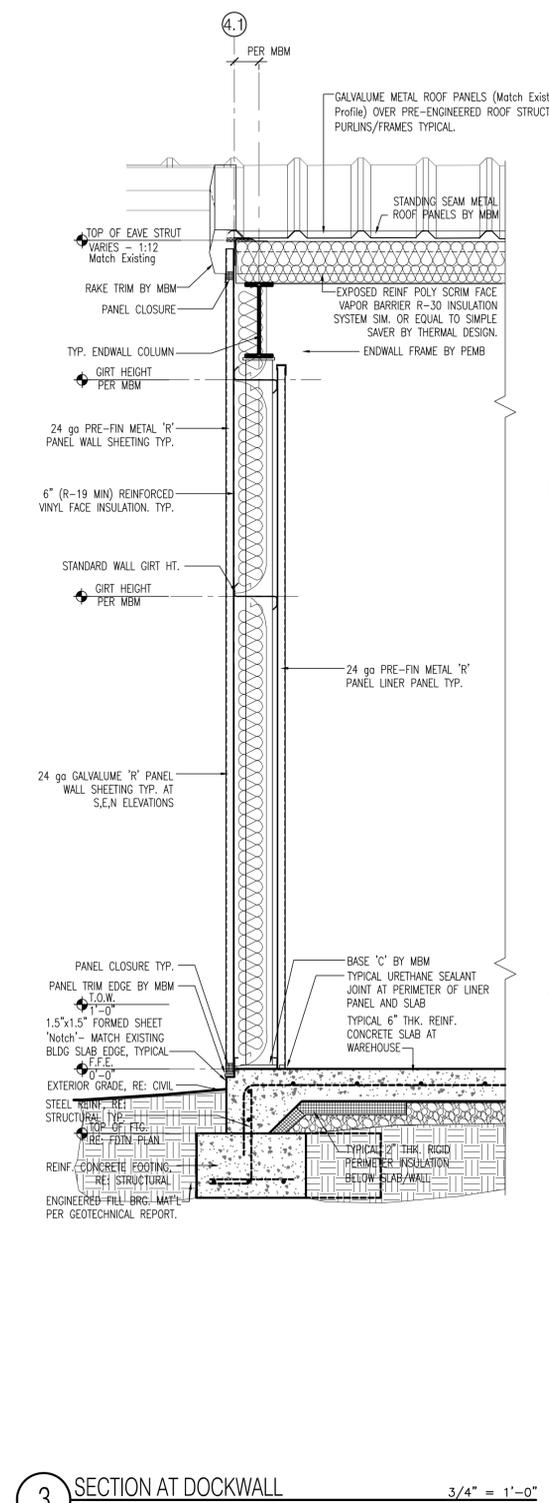
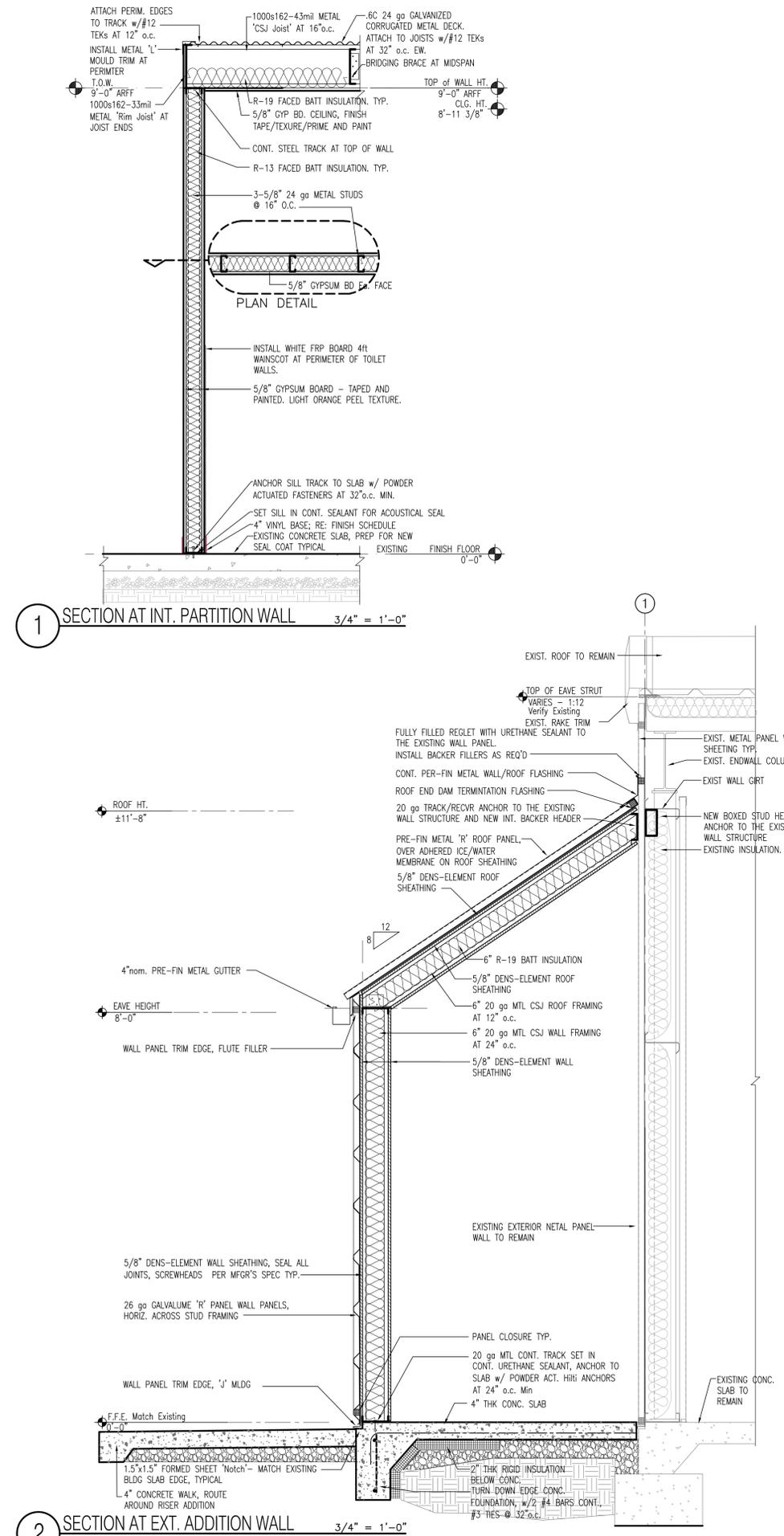
Sheet Contents:

WALL SECTIONS

Drawing Name: PacSpec Dock A6-1-DWG  
Date: 11.05.25  
Revisions:

Sheet Number:

A6.1



| STANDARD ABBREVIATIONS |                                  |          |                                       |
|------------------------|----------------------------------|----------|---------------------------------------|
| #                      | - NUMBER                         | LSH      | - LONG SIDE HORIZONTAL                |
| @                      | - AT                             | LSL      | - LAMINATED STRAND LUMBER             |
| ∅                      | - DIAMETER                       | LSV      | - LONG SIDE VERTICAL                  |
| AB                     | - ANCHOR BOLT / ANCHOR ROD       | LVL      | - LAMINATED VENEER LUMBER             |
| ADDL                   | - ADDITIONAL                     | MAX      | - MAXIMUM                             |
| AFF                    | - ABOVE FINISHED FLOOR           | MECH     | - MECHANICAL                          |
| ALT                    | - ALTERNATE / ALTERNATING        | MEP      | - MECHANICAL/ELECTRICAL / PLUMBING    |
| ARCH                   | - ARCHITECT / ARCHITECTURAL      | MFR      | - MANUFACTURER                        |
| BB                     | - BOND BEAM                      | MIN      | - MINIMUM                             |
| BD                     | - BOTTOM OF                      | MISC     | - MISCELLANEOUS                       |
| BOF                    | - BOTTOM OF FOOTING / FOUNDATION | ML       | - MASONRY LINTEL                      |
| BOS                    | - BOTTOM OF STEEL                | MTL      | - METAL                               |
| BOT                    | - BOTTOM                         | NIC      | - NOT IN CONTRACT                     |
| BRG                    | - BEARING                        | NS       | - NEAR SIDE                           |
| BTWN                   | - BETWEEN                        | NTS      | - NOT TO SCALE                        |
| CANT                   | - CANTILEVER                     | OC       | - ON CENTER                           |
| OFS                    | - COLD FORMED STEEL              | OD       | - OUTSIDE DIAMETER                    |
| CP                     | - CAST IN PLACE                  | OF       | - OUTSIDE FACE                        |
| CJ                     | - CONTROL JOINT                  | OH       | - OVERHEAD/OVERHANG                   |
| CL                     | - CENTER LINE                    | OPH      | - OPPOSITE HAND                       |
| CLR                    | - CLEAR                          | OPN      | - OPENING                             |
| CMU                    | - CONCRETE MASONRY UNIT          | OTL      | - OUTLOOKER                           |
| COL                    | - COLUMN                         | OWSJ     | - OPEN WEB STEEL JOIST                |
| CONC                   | - CONCRETE                       | PAP      | - PAPER                               |
| CONN                   | - CONNECTION / CONNECTED         | PE       | - PEDESTAL                            |
| CONT                   | - CONTINUOUS                     | PED      | - PEDESTAL                            |
| CTR                    | - CENTER/CENTERED                | PEMB     | - PRE-ENGINEERED METAL BUILDING       |
| DBA/DBAS               | - DECK BEARING ANCHORS           | PEWST    | - PRE-ENGINEERED WOOD SCISSOR TRUSS   |
| DBE                    | - DECK BEARING ELEVATION         | PEWT     | - PRE-ENGINEERED WOOD TRUSS           |
| DBL                    | - DOUBLE                         | PL       | - PLATE                               |
| DI                     | - DIAMETER                       | PLCS     | - PLACES                              |
| DIAMDIMS               | - DIMENSION(S)                   | PROJ     | - PROJECTION                          |
| DL                     | - DEAD LOAD                      | PSL      | - PARALLEL STRAND LUMBER              |
| DW/DWLS                | - DECK WALL (EARTHQUAKE)         | PVMT     | - PAVEMENT                            |
| EA                     | - EACH                           | QUAD     | - QUADRUPLE                           |
| EOR                    | - ENGINEER OF RECORD             | REIN     | - REINFORCEMENT                       |
| EL                     | - ELEVATION                      | REQREQD  | - REQUIRE(S)/REQUIREMENT / REQUIRED   |
| EMBED                  | - EMBEDMENT/EMBEDDED             | RL       | - ROOF LIVE LOAD                      |
| EPA                    | - EFFECTIVE PROJECTED AREA       | RTU      | - ROOF TOP UNIT                       |
| EQ                     | - EQUAL/EQUIVALENT               | SCHED    | - SCHEDULE                            |
| EQUIP                  | - EQUIPMENT                      | SIM      | - SIMILAR                             |
| ETC                    | - ETCETERA                       | SIP/SIPS | - STRUCTURAL INSULATED PANEL(S)       |
| EW                     | - EACH WAY                       | SL       | - SNOW LOAD                           |
| EXST                   | - EXISTING                       | SPA      | - SPACING / SPACED                    |
| EXT                    | - EXTERIOR                       | SPEC     | - SPECIFICATIONS                      |
| FDTN                   | - FOUNDATION                     | SOG      | - SLAB ON GRADE                       |
| FFEL                   | - FINISHED FLOOR ELEVATION       | SQ       | - SQUARE                              |
| FLR                    | - FLOOR                          | SS       | - STAINLESS STEEL                     |
| FS                     | - FLOOR SIDE                     | STL      | - STEEL                               |
| FTG                    | - FOOTING                        | SYMM     | - SYMMETRICAL                         |
| FV                     | - FIELD VERIFY                   | T&B      | - TOP & BOTTOM                        |
| GA/GAGE                | - GALVANIZED                     | TBE      | - TRUSS BEARING ELEVATION             |
| GALV                   | - GALVANIZED                     | TEMP     | - TEMPORARY/TEMPERATURE               |
| GC                     | - GENERAL CONTRACTOR             | TO       | - TOP OF                              |
| GEN                    | - GENERAL                        | TOC      | - TOP OF CONCRETE / FOUNDATION        |
| HAS                    | - HEADED STUD ANCHOR             | TOS      | - TOP OF STEEL                        |
| HDR                    | - HEADER                         | TOW      | - TOP OF WALL                         |
| HI                     | - HIGH                           | TRANS    | - TRANSVERSE                          |
| HORIZ                  | - HORIZONTAL                     | TRIP     | - TRIP                                |
| ID                     | - INSIDE DIAMETER                | UNO      | - UNLESS NOTED OTHERWISE              |
| INFO                   | - INFORMATION                    | VERT     | - VERTICAL                            |
| INSUL                  | - INSULATED/INSULATION           | VLD      | - VERTICAL LEG DOWN                   |
| INT                    | - INTERIOR                       | VLU      | - VERTICAL LEG UP                     |
| JBE                    | - JOIST BEARING ELEVATION        | WL       | - WIND LOAD                           |
| JST                    | - JOIST                          | WP       | - WORK POINT                          |
| K                      | - KIPS (1000 LBS)                | WWR      | - WELDED WIRE REINFORC. (MESH/FABRIC) |
| L/2                    | - ANGLE                          |          |                                       |
| LAT                    | - LATERAL                        |          |                                       |
| LBS                    | - POUNDS                         |          |                                       |
| LL                     | - LIVE LOAD                      |          |                                       |
| LLH                    | - LONG LEG HORIZONTAL            |          |                                       |
| LLV                    | - LONG LEG VERTICAL              |          |                                       |
| LO                     | - LOW                            |          |                                       |
| LOC/LOCS               | - LOCATION(S)                    |          |                                       |
| LONG                   | - LONGITUDINAL                   |          |                                       |

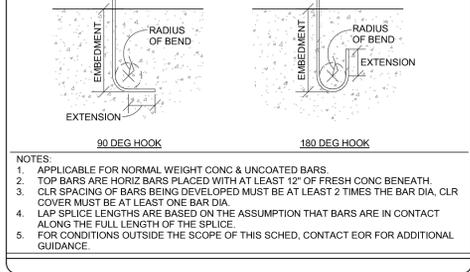
| SYMBOLS LEGEND |                             |
|----------------|-----------------------------|
|                | LEVEL / ELEVATION INDICATOR |
|                | COLUMN CALLOUT              |
|                | BASE PL CALLOUT             |
|                | AB CALLOUT (AS APPLICABLE)  |
|                | FTG CALLOUT                 |
|                | BRACE LOC INDICATOR         |
|                | BAR BEND LENGTH INDICATOR   |
|                | CENTERLINE INDICATOR        |
|                | MOMENT CONN INDICATOR       |
|                | DECK TYPE / SPAN DIRECTION  |
|                | SLOPE DIRECTION INDICATOR   |
|                | STEP INDICATOR              |
|                | SHEAR WALL TAG              |
|                | SHEAR WALL HOLD DOWN        |
|                | SNOW DRIFT LOAD             |
|                | REVISION TAG                |

| LOAD AND DESIGN CRITERIA  |                                      |         |            |
|---|--------------------------------------|---------|------------|
| PACKAGING SPECIALTIES DOCK ADDITION   |                                      |         |            |
| DESIGN CODE   |                                      |         | IBC 2021   |
| RISK CATEGORY   |                                      | II      |            |
| DEAD LOADS  |                                      |         |            |
| FLOOR   | SLAB ON GRADE                        | 50      | PSF        |
| ROOF  | PEMB ROOF FRAMING                    | BY PEMB |            |
| MINIMUM   | COLLATERAL                           | 3       | PSF        |
| LIVE LOADS  |                                      |         |            |
| FLOOR   | SLAB ON GRADE                        | 125     | PSF        |
| ROOF  | PEMB ROOF FRAMING                    | 20      | PSF        |
| SNOW LOADS  |                                      |         |            |
| TYPICAL FLAT ROOF DESIGN SNOW LOAD *  |                                      | pf      | 10 PSF     |
| TYPICAL SLOPED ROOF DESIGN SNOW LOAD **   |                                      | ps      | 7 PSF      |
| GROUND SNOW LOAD  |                                      | pg      | 10 PSF     |
| EXPOSURE FACTOR   |                                      | Ce      | 1.0        |
| THERMAL FACTOR - TYP  |                                      | Ct      | 1.0        |
| SLOPE FACTOR  |                                      | Cs      | 1.0        |
| IMPORTANCE FACTOR   |                                      | Is      | 1.0        |
| DRIFT   | ACCOUNTED FOR IN ROOF FRAMING DESIGN |         |            |
| WIND LOAD DESIGN CRITERIA   |                                      |         |            |
| BASIC WIND SPEED  |                                      | V       | 108 MPH    |
| EXPOSURE CATEGORY   |                                      | C       |            |
| DIRECTIONALITY FACTOR   |                                      | Kd      | 0.85       |
| TOPOGRAPHIC FACTOR  |                                      | Kz      | 1.0        |
| INTERNAL PRESSURE COEFFICIENT   |                                      | Gcpi    | +/-0.18    |
| INTERIOR WALLS AND PARTITIONS   |                                      |         | 5 PSF      |
| SEISMIC LOAD DESIGN CRITERIA  |                                      |         |            |
| SHORT PERIOD ACCELERATION   |                                      | Ss      | 0.161      |
| LONG PERIOD ACCELERATION  |                                      | S1      | 0.091      |
| SITE CLASS  |                                      | D       | (default)  |
| SHORT PERIOD RESPONSE   |                                      | Sds     | 0.171      |
| LONG PERIOD RESPONSE  |                                      | Sd1     | 0.146      |
| SEISMIC DESIGN CATEGORY   |                                      | C       |            |
| IMPORTANCE FACTOR   |                                      | Is      | 1.0        |
| ANALYSIS PROCEDURE  |                                      | By      | PEMB       |
| SEISMIC FORCE RESISTING SYSTEM  |                                      | By      | PEMB       |
| RESPONSE MODIFICATION FACTOR  |                                      | R       | By PEMB    |
| SYSTEM OVERSTRENGTH FACTOR  |                                      | By      | PEMB       |
| DEFLECTION AMPLIFICATION FACTOR   |                                      | Cd      | By PEMB    |
| SEISMIC RESPONSE COEFFICIENT  |                                      | Cs      | By PEMB    |
| SEISMIC BASE SHEAR  |                                      | V       | By PEMB    |
| GEOTECHNICAL DESIGN CRITERIA  |                                      |         |            |
| PAV FOOTING ALLOWABLE BEARING PRESSURE  |                                      |         | 2000 PSF   |
| CONTINUOUS FOOTING ALLOWABLE BEARING PRESSURE                                     |                                      |         | 1500 PSF   |
| TOTAL SETTLEMENT  |                                      |         | 1 INCH     |
| DIFFERENTIAL SETTLEMENT   |                                      |         | 0.5 INCH   |
| LATERAL SOIL PRESSURE (ACTIVE)  |                                      |         | 30 PSF/FT  |
| LATERAL SOIL PRESSURE (AT-REST)   |                                      |         | 60 PSF/FT  |
| LATERAL SOIL PRESSURE (PASSIVE)   |                                      |         | 150 PSF/FT |
| COEFFICIENT OF FRICTION   |                                      |         | 0.25       |
| NOTES:  |                                      |         |            |
| * VALUE CONSIDERS CODE MINIMUMS, RAIN ON SNOW, AND LOCAL ORDINANCES AS APPLICABLE |                                      |         |            |

| REBAR SPlice & DEVELOPMENT LENGTHS |   |                           |                           |                                       |                            |     |     |
|------------------------------------|---|---------------------------|---------------------------|---------------------------------------|----------------------------|-----|-----|
| LAP SPlice LENGTHS (IN)            |   |                           |                           |                                       |                            |     |     |
| BAR SIZE                           | TENSION SPlice LENGTHS <sup>1,2</sup> (CLASS B) |                           |                           |                                       | COMPRESSION SPlice LENGTHS |     |     |
|                                    | F <sub>c</sub> = 3000 PSI                       | F <sub>c</sub> = 3500 PSI | F <sub>c</sub> = 4000 PSI | F <sub>c</sub> = 3000 PSI to 4000 PSI | ALL                        | ALL | ALL |
| #3                                 | 28  | 22                        | 26                        | 20                                    | 24                         | 19  | 12  |
| #4                                 | 37  | 29                        | 35                        | 27                                    | 32                         | 25  | 15  |
| #5                                 | 47  | 36                        | 43                        | 33                                    | 40                         | 31  | 19  |
| #6                                 | 56  | 43                        | 52                        | 40                                    | 48                         | 37  | 23  |

| STRAIGHT BAR DEVELOPMENT LENGTHS (IN) |                                      |                           |                           |                                       |                                 |     |     |
|---------------------------------------|--------------------------------------|---------------------------|---------------------------|---------------------------------------|---------------------------------|-----|-----|
| BAR SIZE                              | STRAIGHT TENSION DEVELOPMENT LENGTHS |                           |                           |                                       | COMPRESSION DEVELOPMENT LENGTHS |     |     |
|                                       | F <sub>c</sub> = 3000 PSI            | F <sub>c</sub> = 3500 PSI | F <sub>c</sub> = 4000 PSI | F <sub>c</sub> = 3000 PSI to 4000 PSI | ALL                             | ALL | ALL |
| #3                                    | 22                                   | 17                        | 20                        | 16                                    | 19                              | 15  | 9   |
| #4                                    | 29                                   | 22                        | 27                        | 21                                    | 25                              | 19  | 11  |
| #5                                    | 36                                   | 28                        | 33                        | 26                                    | 31                              | 24  | 14  |
| #6                                    | 43                                   | 33                        | 40                        | 31                                    | 37                              | 29  | 17  |

| HOOKED DOWEL DEVELOPMENT LENGTHS (IN) |                   |                   |                   |             |                                 |              |
|---------------------------------------|-------------------|-------------------|-------------------|-------------|---------------------------------|--------------|
| BAR SIZE                              | EMBEDMENT         |                   | EXTENSION         |             | MINIMUM RADIUS OF BEND (INCHES) |              |
|                                       | 3000 PSI CONCRETE | 3500 PSI CONCRETE | 4000 PSI CONCRETE | 90 DEG HOOK |                                 | 180 DEG HOOK |
| #3                                    | 8                 | 8                 | 7                 | 4.5         | 2.5                             | 1.50         |
| #4                                    | 11                | 10                | 9                 | 6.0         | 2.5                             | 2.00         |
| #5                                    | 14                | 13                | 12                | 7.5         | 2.5                             | 2.50         |
| #6                                    | 16                | 15                | 14                | 9.0         | 3.0                             | 3.00         |



| STATEMENT OF SPECIAL INSPECTIONS |   |  |  |
|----------------------------------|---|--|--|
| 1.                               | SPECIAL INSPECTIONS SHALL BE READ IN ACCORDANCE WITH CHAPTER 17 OF THE IBC REFERENCED IN THE LOADING AND DESIGN CRITERIA TABLE. THE OWNER SHALL EMPLOY A THIRD PARTY TESTING AGENCY FOR ALL TESTING STATED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH SAID INSPECTION AGENCY.  |  |  |
| 2.                               | THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO PERFORM THE READ INSPECTIONS TO THE SATISFACTION OF THE BUILDING OFFICIAL.  |  |  |
| 3.                               | THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS. INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL CHARGE.   |  |  |
| 4.                               | REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. 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 BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. |  |  |
| 5.                               | A FINAL REPORT OF INSPECTIONS DOCUMENTING READ SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES SHALL BE SUBMITTED TO THE OWNER, BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AT THE COMPLETION OF THE STRUCTURAL PORTION OF THE WORK.   |  |  |
| 6.                               | THE THIRD PARTY TESTING AGENCY SHALL CONTACT THE STRUCTURAL EOR PRIOR TO INITIATION OF CONSTRUCTION.  |  |  |
| 7.                               | CITY OF SPRINGFIELD ONLY: A LETTER OF SUBSTANTIAL COMPLETION WILL NEED TO BE SUBMITTED TO BUILDING DEVELOPMENT SERVICES FROM THE SPECIAL INSPECTION PROVIDER BEFORE THE FINAL INSPECTION CAN BE COMPLETED.  |  |  |

| IBC TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS   |            |          |  |
|--|------------|----------|--|
| VERIFICATION AND INSPECTION TASK   | CONTINUOUS | PERIODIC |  |
| 1. VERIFY MATERIALS AND LOW FDTN ARE ADEQUATE TO ACHIEVE THE DESIGN BRG CAPACITY.  | —          | X        |  |
| 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REINFORCED MATERIAL.   | —          | X        |  |
| 3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.   | —          | X        |  |
| 4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL PRIOR TO PLACEMENT OF COMPACTED FILL. INSPECT TEMPERATURE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. | X          | —        |  |
| 5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.   | —          | X        |  |

- ### GENERAL NOTES
- THE CONTRACTOR SHALL VERIFY DIMS, ELEVATIONS, SUPPORTED EQUIPMENT, OPENINGS, CONDITIONS, ETC WITH ARCHITECTURAL AND OTHER DISCIPLINE DRAWINGS PRIOR TO START OF FABRICATION AND CONSTRUCTION. IN CASES OF DISCREPANCIES OR OMISSIONS, CONTRACTOR SHALL INFORM THE DESIGN TEAM IN WRITING.
  - THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INCLUDE CONSTRUCTION MEANS AND METHODS. CONTRACTOR SHALL PROVIDE TEMPORARY GUYS, BRACING, SHORING, ETC AS REQD DURING CONSTRUCTION. STRUCTURE IS NOT STABLE UNTIL ALL STRUCTURAL MEMBERS, CONNECTIONS, AND DECKING ARE IN PLACE.
  - CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. NOTIFY DESIGN TEAM WHEN EXISTING CONDITIONS DIFFER FROM THE CONSTRUCTION DOCUMENTS.
  - THE GEN NOTES ON THE DRAWINGS ARE INTENDED TO SUPPLEMENT PROJECT DETAILS AND SPEC. IN THE CASE THAT THE NOTES CONFLICT WITH OTHER CONTRACT DOCUMENT PROVISIONS, THE MORE STRINGENT CRITERIA SHALL APPLY.
  - TYPE DETAILS AND NOTES SHALL APPLY AS APPLICABLE THROUGHOUT THE PROJECT, WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
  - ALTERNATE OPTIONS ARE FOR THE CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL APPLICABLE DETAILS. THE CONTRACTOR MAY SUBMIT ADDL OPTIONS FOR REVIEW IF DESIRED. ANY SUCH OPTION MUST BE APPROVED IN WRITING BY EOR BEFORE BEING IMPLEMENTED. EOR RESERVES THE RIGHT TO CHARGE THE CONTRACTOR FOR REVIEW TIME.
  - INSPECTION REQS AS STATED IN THE CONTRACT DOCUMENTS ARE PARTIAL. COMPLETE INSPECTION REQS SHALL BE AS DIRECTED BY THE LOCAL BUILDING OFFICIAL AND SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION COMPANY AND / OR THE LOCAL BUILDING DEPARTMENT. SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN INSPECTION.

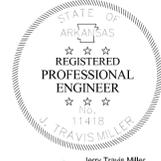
- ### SLAB ON GRADE NOTES
- MIN SLAB THICKNESS SHALL BE AS INDICATED IN THE CONTRACT DOCUMENTS. SEE CONC NOTES FOR RECD CONC PROPERTIES. SLABS SHALL BE SUPPORTED ON A MIN 4 INCH THICK DRAINAGE COURSE OF CLEAN, WASHED, EVENLY GRADED GRANULAR MATERIAL CONFORMING TO ASTM D448, SIZE #7, WITH 100 PERCENT PASSING A 1 1/2 INCH SIEVE AND NOT MORE THEN 5 PERCENT PASSING A No. 8 SIEVE.
  - PROVIDE MIN 15 MIL VAPOR BARRIER LOCATED BELOW THE SLAB AND ABOVE THE DRAINAGE COURSE UNO. VAPOR BARRIER SHALL BE INSTALLED PER MFR'S RECOMMENDATIONS.
  - PROVIDE ADDL REIN AT SLAB OPENINGS AND AT REINTRANS CORNERS AS INDICATED IN PROJECT DETAILS.
  - CONCRETE JOINTS ARE TO BE LOCATED AT A MAX OF 12'-0" ON CENTER, AND SHALL FORM NEARLY SQUARE SHAPES. LOCATE CONTRACTION JOINTS SUCH THAT THEY TERMINATE AT SLAB BLOCKOUTS WHEN PRESENT.
  - ALL CONC SLAB SHALL BE SAW CUT AS SOON AS THE CONC WILL SUPPORT THE SAWING EQUIPMENT AND DOES NOT RAVEL DURING THE SAWING OPERATION. ALL SAW CUTTING SHALL BE DONE THE SAME DAY THE CONC IS PLACED. SEE THE SLAB CONTRACTION JOINT DETAIL FOR ADDL INFORMATION.
  - ALL CONC FLAT WORK SHALL BE CURED FOR A MIN OF 7 DAYS BY COVERING WITH CURING SHEETS AND MAINTAINING CONTINUOUSLY WET OR BY OTHER APPROVED CURING METHODS.

- ### DEFERRED SUBMITTALS NOTES
- IN ACCORDANCE WITH IBC SECTION 107.3.4.1 SPECIALTY ITEMS AND PRE-ENGINEERED COMPONENTS SHALL BE SUBMITTED FOR APPROVAL OF THE STRUCTURAL EOR AND THE BUILDING OFFICIAL.
  - DEFERRED SUBMITTALS ARE REQD FOR THE FOLLOWING:
    - PRE-ENGINEERED METAL BUILDING (PEMB)
  - SUBMITTALS SHALL BE REVISION AND SEALED BY THE 'SPECIALTY ENGINEER' LICENSED IN THE STATE THE PROJECT IS LOCATED AND SHALL INCLUDE THE FOLLOWING:
    - CALCULATIONS
    - LINEWORK DEPICTING LOAD MAGNITUDES AND LOCS
    - ERECTION AND/OR DESIGN DRAWINGS
  - SUBMITTALS RECEIVED BY OUR FIRM SHALL BEAR A REVIEW STAMP FROM THE GEN CONTRACTOR OR IT WILL BE REJECTED.
  - THE STRUCTURAL EOR'S REVIEW IS LIMITED TO LOADING CRITERIA, VERIFYING CONNECTIONS ARE CONSISTENT WITH THE CONTRACT DOCUMENTS, AND VERIFYING THAT THE BASE STRUCTURE CAN SUPPORT THE LOADS PROVIDED.
  - SUBMITTALS THAT ARE RECEIVED WHICH HAVE BEEN REJECTED DUE TO LACK OF COORDINATION WITH THE CONTRACT DOCUMENTS WILL BE RE-REVIEWED ON AN HOURLY BASIS AT THE EXPENSE OF THE SUBMITTING PARTY.

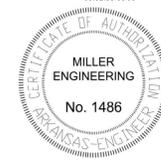
| IBC TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION   |            |          |   |                                |
|--|------------|----------|---|--------------------------------|
| VERIFICATION AND INSPECTION  | CONTINUOUS | PERIODIC | REFERENCED STANDARD                       | IBC REFERENCE                  |
| 1. INSPECT REINF. INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT   | —          | X        | ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3 | 1908.4                         |
| 2. REIN BAR WELDING  | —          | X        |   |                                |
| A. VERIFY WELDABILITY OF REIN BARS OTHER THAN ASTM A706.   | —          | X        | AWS D14 ACI 318: 26.6.4                   | —                              |
| B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" AND   | X          | —        |   |                                |
| C. INSPECT ALL OTHER WELDS   | —          | X        | ACI 318: 17.8.2                           | —                              |
| 3. INSPECT ANCHORS CAST IN CONC  | —          | X        |   |                                |
| 4. INSPECT ANCHORS INSTALLED IN HARDENED CONC MEMBERS  | —          | X        |   |                                |
| A. ADHESIVE ANCHORS INSTALLED IN HORIZ OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.  | X          | —        | ACI 318: 17.8.2.4                         | —                              |
| B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.   | —          | X        | ACI 318: 17.8.2                           | —                              |
| 5. VERIFY USE OF RECD DESIGN MIX.  | —          | X        | ACI 218: CH. 19, 26.4.3, 26.4.4           | 1904.1, 1904.2, 1908.2, 1908.3 |
| 6. PRIOR TO CONC PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMP OF THE CONC.                     | X          | —        | ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12 | 1908.10                        |
| 7. INSPECTION OF CONC AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.   | X          | —        | ACI 318: 26.5                             | 1908.6, 1908.7, 1908.8         |
| 8. VERIFY MAINTENANCE OF SPECIFIED CONCRETE TEMPERATURES.  | —          | X        | ACI 318: 26.5.3-26.5.5                    | 1910.9                         |
| 9. INSPECT PRESTRESSED CONC FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS   | X          | —        | ACI 318: CH. 26.9                         | —                              |
| 10. INSPECT ERECTION OF PRECAST CONC MEMBERS   | —          | X        | ACI 318: CH. 26.9                         | —                              |
| 11. VERIFY IN-SITU CONC STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONC AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. | —          | X        | ACI 318: 26.11.2                          | —                              |
| 12. INSPECT FORMWORK FOR SHAPE, LOC AND DIR OF THE CONC MEMBER BEING FORMED  | —          | X        | ACI 318: 26.11.1.2(b)                     | —                              |

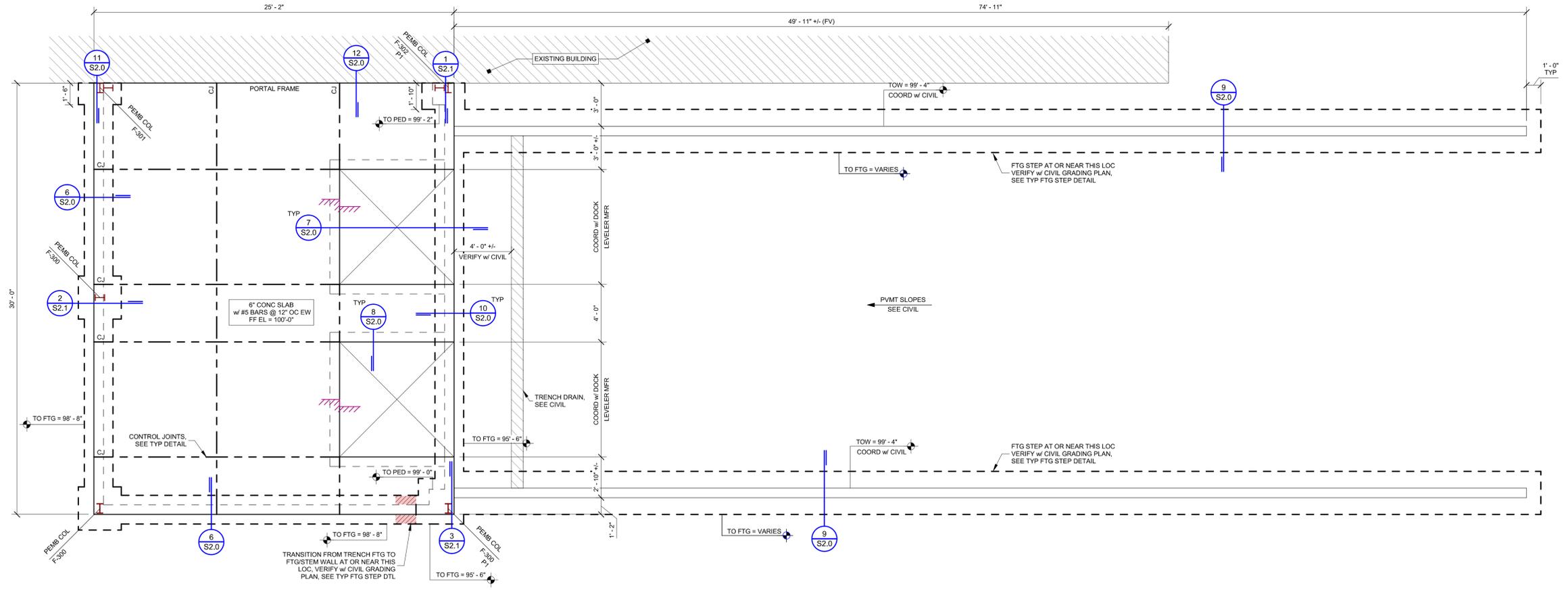
| SCHEDULE OF SPECIAL INSPECTIONS   |                             |                                 |  |
|---|-----------------------------|---------------------------------|--|
| MATERIAL / ACTIVITY   | SERVICE                     | EXTENT                          |  |
| STEEL CONSTRUCTION  |                             |                                 |  |
| MATERIAL VERIFICATION OF STRUCTURAL STEEL   | SHOP (3) & FIELD INSPECTION | PERIODIC                        |  |
| STRUCTURAL STEEL WELDING  |                             |                                 |  |
| INSPECTION TASKS AFTER WELDING, OBSERVE, OR PERFORM FOR EACH WELDED JOINT OR MEMBER. THE QA TASKS LISTED IN AISC 360, TABLE N5-4.3  | SHOP (3) & FIELD INSPECTION | OBSERVE OR PERFORM AS NOTED (4) |  |
| NOTES:  |                             |                                 |  |
| 1. THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR(S) AND/OR TESTING AGENCIES MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL AND/OR THE DESIGN PROFESSIONAL. |                             |                                 |  |
| 2. THE LIST OF SPECIAL INSPECTORS MAY BE SUBMITTED AS A SEPARATE DOCUMENT, IF NOTED SO ABOVE.   |                             |                                 |  |
| 3. SPECIAL INSPECTIONS AS REQUIRED BY SECTION 1704.2.5 ARE NOT REQUIRED WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH IBC SECTION 1704.5.2  |                             |                                 |  |
| 4. OBSERVE ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. PERFORM THESE TASKS FOR EACH WELDED JOINT BOLTED CONNECTION, OR STEEL ELEMENT   |                             |                                 |  |
| 5. NOT OF WORKS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHI. REFER TO AISC 360, N7.   |                             |                                 |  |

J. TRAVIS MILLER - ENGINEER  
ARKANSAS LICENSE #11418



Jerry Travis Miller  
2025.11.18  
08:02:38-0700



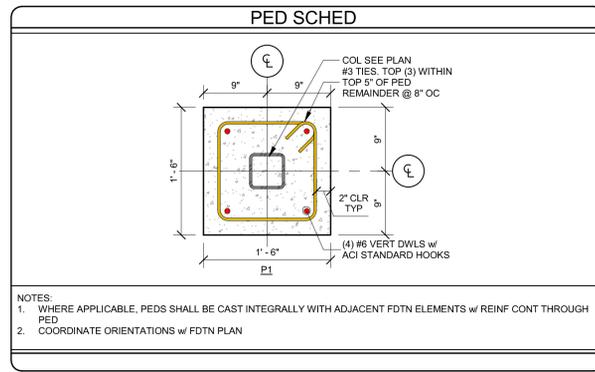


1 FOUNDATION PLAN  
1/4" = 1'-0"

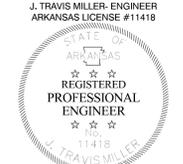


| MARK | SIZE  |        |           | REINFORCEMENT |              |
|------|-------|--------|-----------|---------------|--------------|
|      | WIDTH | LENGTH | THICKNESS | LONGITUDINAL  | TRANSVERSE   |
| F300 | 3'-0" | 3'-0"  | 1'-0"     | (3) #4's BOT  | (3) #4's BOT |
| F301 | 3'-0" | 1'-6"  | 1'-0"     | (3) #4's BOT  | (3) #4's BOT |
| F302 | 3'-0" | 1'-10" | 1'-0"     | (3) #4's BOT  | (3) #4's BOT |

NOTES:  
 1. SEE CONCRETE NOTES FOR ADDITIONAL INFORMATION.  
 2. FOOTINGS ARE CENTERED BELOW COLUMNS UNO.  
 3. PROVIDE 3" CLEAR DISTANCE BETWEEN ALL REINFORCING STEEL AND EDGES OF FOOTINGS UNO.  
 4. FOR CONDITIONS OUTSIDE THE SCOPE OF THIS SCHEDULE, CONTACT ENGINEER FOR ADDITIONAL GUIDANCE.



- FOUNDATION PLAN NOTES**
- TOP OF SLAB ELEVATION = 100'-0" IS EQUIVALENT THE EXISTING BUILDING SLAB ELEVATION.
  - ALL TOP OF EXTERIOR FOOTING ELEVATIONS SHALL BE 99'-4" UNO.
  - ALL TOP OF STEMWALL ELEVATIONS SHALL BE 99'-4" UNO.
  - ALL TOP OF PEDESTAL ELEVATIONS SHALL BE 99'-4" UNO. SEE PEDESTAL SCHEDULE FOR SIZE AND REINFORCING REQUIREMENTS.
  - COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL PRIOR TO CONSTRUCTION.
  - COORDINATE ALL SLAB AND FOUNDATION PENETRATIONS WITH OTHER DISCIPLINES AND NOTIFY ENGINEER IF ANY CONFLICTS ARE DISCOVERED. STRUCTURAL DRAWINGS MAY NOT INDICATE ALL PENETRATIONS.
  - SEE ARCHITECTURAL DRAWINGS FOR SLAB FINISH REQUIREMENTS.
  - SLOPE FLOORS TO FLOOR DRAINS. COORDINATE SLOPE EXTENTS WITH ARCH AND MEP.
  - PROVIDE SLAB CONTROL JOINTS AS INDICATED IN PLAN AND GENERAL NOTES. SEE CONTROL JOINT DETAIL.
  - PROVIDE SUPPLEMENTAL SLAB REINFORCING WHERE APPLICABLE. SEE TYPICAL SLAB ON GRADE REINFORCING DETAILS.
  - WHERE ONLY ONE CURTAIN OF REINFORCING IS REQUIRED, BARS SHALL BE CENTERED IN WALL.
  - PROVIDE CONTINUOUS REINFORCING IN ALL CONCRETE CONSTRUCTION. SEE CORNER BAR DETAIL.
  - PERIMETER INSULATION SHALL BE AS REQUIRED BY ARCHITECTURAL DRAWINGS.



Jerry Travis Miller  
2025.11.18  
08.02.28-09.00



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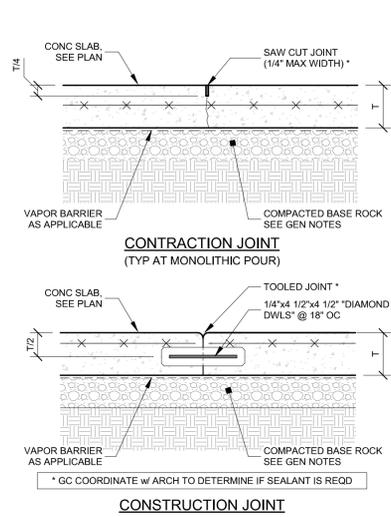
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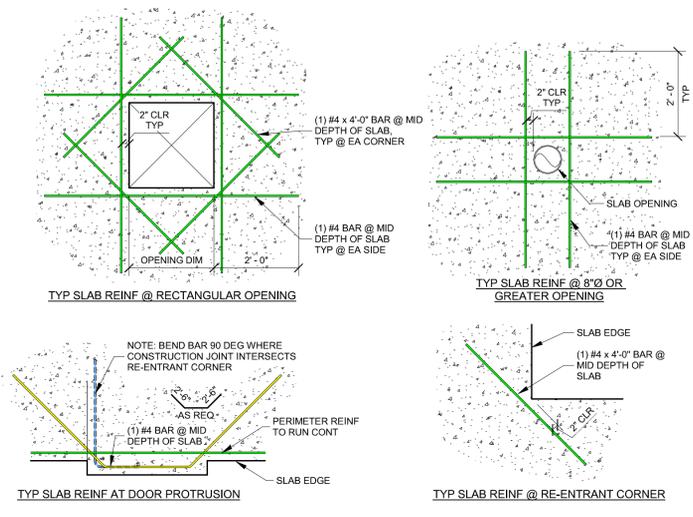
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Revisions:

Sheet Number:

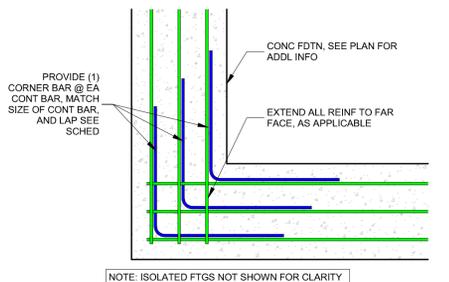
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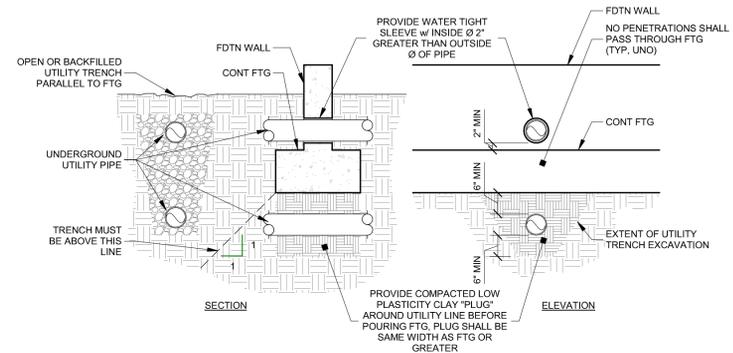
1 SLAB ON GRADE CONTROL JOINTS  
NTS



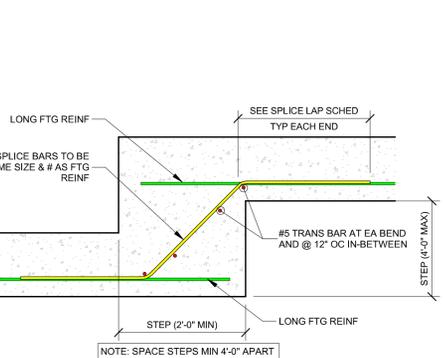
2 TYPICAL SLAB ON GRADE REINFORCING  
NTS



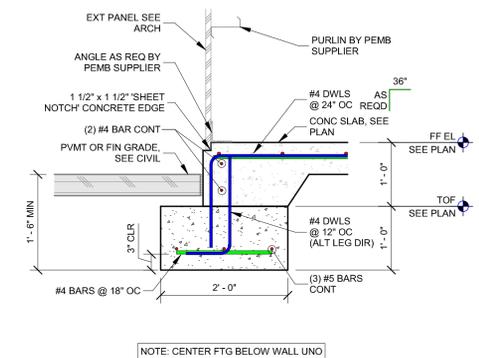
3 CORNER BAR  
NTS



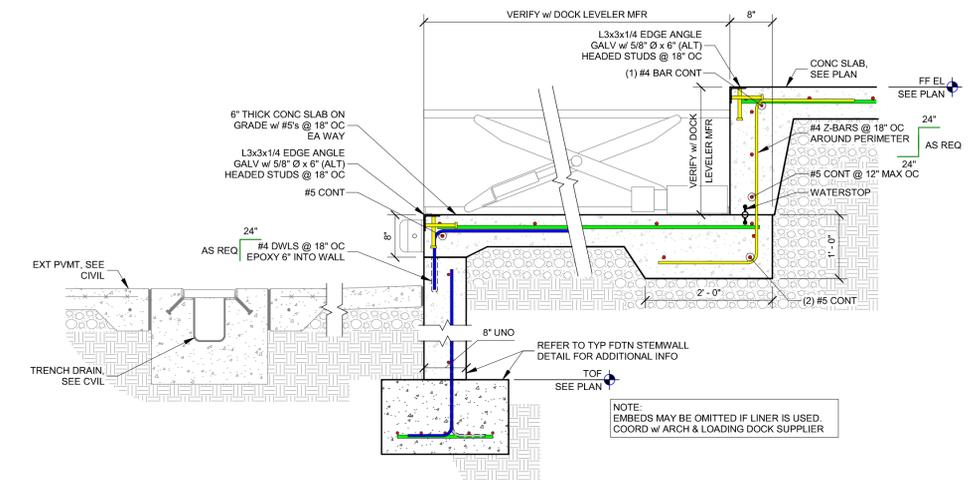
4 UTILITY PIPE PENETRATION AT STEM WALL  
1/2\"/>



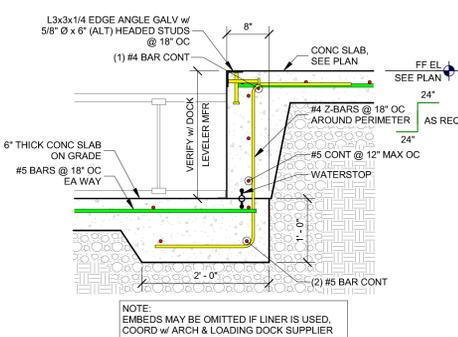
5 FOOTING STEP  
NTS



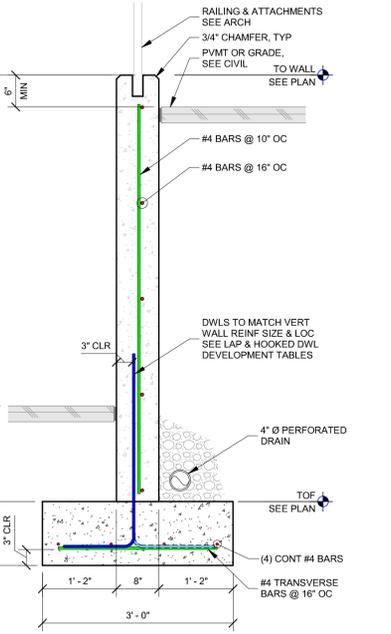
6 TYPICAL PERIMETER FOOTING  
3/4\"/>



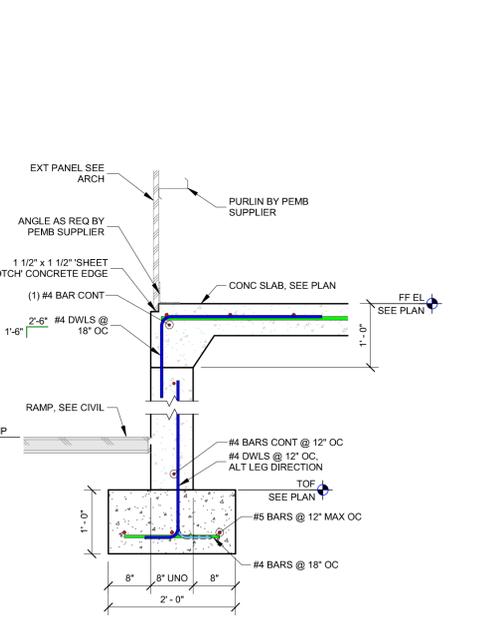
7 SECTION AT DOCK LEVELER  
3/4\"/>



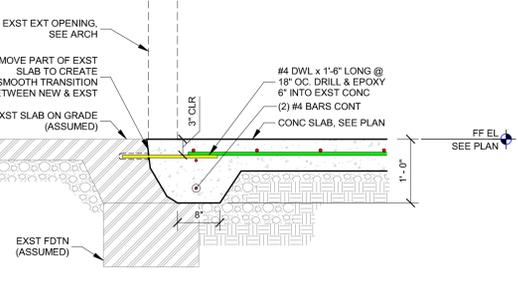
8 SIDE SECTION AT DOCK LEVELER  
3/4\"/>



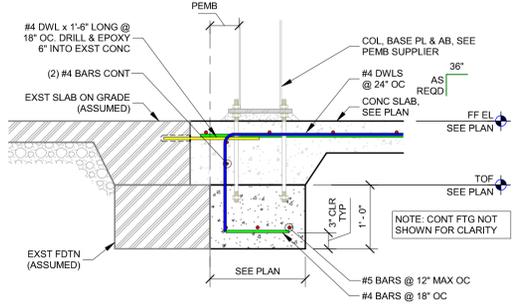
9 RETAINING WALL  
3/4\"/>



10 TYPICAL STEM WALL AT RAMP  
3/4\"/>



11 NEW SLAB EDGE AT EXISTING  
3/4\"/>



12 PERIMETER COLUMN AT EXISTING BUILDING  
3/4\"/>

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ARKANSAS LICENSE #11418

REGISTERED PROFESSIONAL ENGINEER

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Dock Addition  
Recvg Office

**PACKAGING SPECIALTIES, INC**  
Celebrating 50 years  
EST. 1974

1755 & 1766  
S Armstrong Ave  
Fayetteville, Arkansas

Sheet Contents:  
FOUNDATION DETAILS

|                |          |
|----------------|----------|
| Project Number | 14151    |
| Date:          | 11.05.25 |
| Revisions:     |          |
|                |          |
|                |          |
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| Sheet Number:  |          |

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PACKAGING  
SPECIALTIES, INC.

Celebrating 50 years Est. 1974

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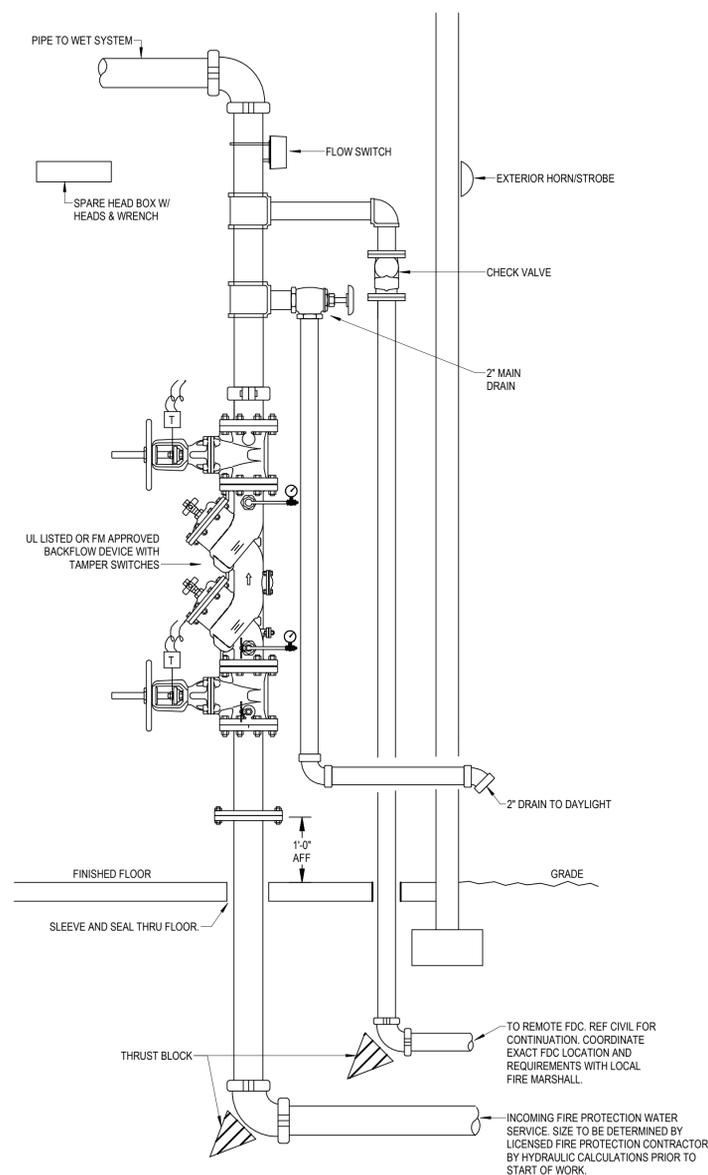
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Drawing Name: FIRE PROTECTION NOTES  
Date: 11-05-2025  
Revisions:

Sheet Number:

FP1.0

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PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT ACTUAL INSTALLATION CONDITIONS. WHERE MULTIPLE ZONES ARE REQUIRED, PROVIDE HORIZONTAL BACKFLOW DEVICE AND MANIFOLD PIPING. PROVIDE NUMBER OF RISERS AS REQUIRED, EACH WITH OS&Y VALVE AND ALARM CHECK VALVE.

**3 FIRE RISER DETAIL**  
SCALE: NTS

**FIRE PROTECTION GENERAL NOTES - NEW DESIGN**

1. THE FIRE PROTECTION OF THIS BUILDING SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES AND SHALL CONFORM TO NFPA 13 GENERAL REQUIREMENTS AND IN FULL COMPLIANCE WITH LOCAL FIRE MARSHAL NOTES, DETAILS, AND SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS SHOW BASIC DESIGN INTENT ONLY. THE FIRE PROTECTION CONTRACTOR/ENGINEER IS RESPONSIBLE TO DESIGN, FABRICATE, AND INSTALL A COMPLETE, FULLY OPERATIONAL, CODE COMPLIANT SYSTEM IN AN ACCEPTABLE MANNER TO THE STATE HEALTH DEPARTMENT, LOCAL FIRE MARSHALL AND THE ARCHITECT/ENGINEER.
2. THE AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED, FABRICATED, INSTALLED, AND TESTED BY AN EXPERIENCED CONTRACTOR APPROVED BY THE ARCHITECT AND LICENSED BY THE STATE TO PERFORM SUCH WORK.
3. THE FIRE PROTECTION CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, FEES, DEPOSITS, AND CHARGES IN CONNECTION WITH THE WORK, EXCEPT AS NOTED HEREIN. CONTRACTOR SHALL SECURE ALL NECESSARY APPROVALS.
4. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFICIENCIES OR DEVIATIONS FROM THE REQUIREMENTS IN NFPA 13 AND/OR THE APPROVED PLANS.
5. THE CONTRACTOR SHALL PRODUCE SHOP DRAWINGS OF A NFPA 13 SYSTEM SHOWING COORDINATION WITH ALL STRUCTURAL AND HVAC COMPONENTS. SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND THE OWNER'S INSURANCE COMPANY FOR APPROVAL. BEFORE BEING SENT TO THE ARCHITECT, ALL SHOP DRAWINGS MUST BEAR THE INSURANCE SERVICE OFFICES (ISO) STAMP OF ACCEPTANCE AND THE LOCAL FIRE MARSHALL'S STAMP OF APPROVAL.
6. SUBMIT COMPLETE DETAILS AND SECTIONS TO CLEARLY DEFINE AND CLARIFY THE DESIGN, INCLUDING A LIST OF MATERIALS DESCRIBING ALL PROPOSED MATERIALS WITH MANUFACTURER'S NAME AND CATALOG NUMBER.
7. THE CONTRACTOR SHALL PRODUCE HIS OWN HYDRAULICALLY DESIGNED SYSTEM FOR REVIEW AND APPROVAL BY THE LOCAL FIRE MARSHAL'S OFFICE AND ARCHITECT FOR USE ON THIS PROJECT.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CURRENT FIRE FLOW TEST.
9. FIRE PROTECTION ENGINEER/CONTRACTOR SHALL PERFORM ALL CALCULATIONS NECESSARY TO DETERMINE FIRE LINE SIZE AND IF A BOOSTER PUMP WILL BE REQUIRED.
10. (ALTERNATE BID) FIRE CONTRACTOR SHALL PROVIDE A FIRE BOOSTER PUMP IF REQUIRED. EXACT SIZE SHALL BE HYDRAULICALLY CALCULATED AND DETERMINED BY A LICENSED FIRE PROTECTION ENGINEER/CONTRACTOR. FIRE CONTRACTOR TO PROVIDE ALL COMPONENTS NECESSARY AND/OR RECOMMENDED TO PROVIDE A COMPLETE CODE COMPLIANT SYSTEM. (A FIRE BOOSTER PUMP IS NOT EXPECTED TO BE REQUIRED FOR THIS PROJECT. IF A FIRE BOOSTER PUMP WILL BE REQUIRED, THE FIRE PROTECTION ENGINEER/CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ARCHITECT) COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
11. IN AREAS SUBJECT TO FREEZING, PROVIDE DRY SPRINKLER SYSTEM OR COORDINATE WITH MECHANICAL SUBCONTRACTOR TO PROVIDE HEATING EQUIPMENT TO MAINTAIN SPACES AT 40°F OR ABOVE.
12. ALL FIRE PROTECTION CONTROL VALVES SHALL HAVE ELECTRONIC SUPERVISION AND SHALL INTERFACE WITH THE BUILDING FIRE ALARM SYSTEM.
13. FLOW AND TAMPER SWITCHES SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR AND INSTALLED BY SPRINKLER CONTRACTOR. WIRING SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR.
14. UNDERWRITERS LABORATORIES (UL) AND/OR FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVED EQUIPMENT SHOULD BE UTILIZED WHERE APPLICABLE, AND THE DETAILS OF THE INSTALLATION SHOULD CONFORM TO FACTORY MUTUAL ENGINEERING ASSOCIATION (FMEA) GOOD PRACTICES.
15. A CORROSIVE-RESISTANT PLACARD SHALL BE PLACED ON THE BASE OF THE RISER STATING THE DESIGN CRITERIA AND RESULTING DEMAND, INCLUDING HOSE STREAM ALLOWANCES. ALL PIPING, FITTINGS, HANGERS, VALVES, AND DEVICES ARE TO COMPLY WITH NFPA 13.
16. ALL PIPES SHALL MEET OR EXCEED CORROSION RESISTANCE RATIO OF SCHEDULE 40 STEEL PIPE. FIELD COORDINATION IS REQUIRED ESPECIALLY WHEN CUTTING OR ADJUSTING PIPES FOR SPRINKLER INSTALLATION. ALL UNDERGROUND PIPING IS TO BE CHLORINATED PER THE REQUIREMENTS OF THE DEPARTMENT OF HEALTH. EXPOSED SPRINKLER PIPING SHALL BE PAINTED, COLOR SHALL BE SPECIFIED BY ARCHITECT.
17. RUN ALL PIPING PARALLEL OR PERPENDICULAR TO STRUCTURE IN ALL AREAS. SPRINKLER CONTRACTOR SHALL COORDINATE LOCATION OF HORIZONTAL SPRINKLER PIPING WITH OTHER TRADES TO MISS ALL LIGHT FIXTURES, DUCTS, MECHANICAL EQUIPMENT, AIR DIFFUSERS AND ALL OTHER ITEMS WHERE CEILING CLEARANCES ARE CLOSE.
18. PROVIDE SPRINKLER HEAD(S) FOR EACH ROOM/SPACE FOR COMPLETE PROTECTION IN COMPLIANCE WITH NFPA 13. CONTRACTOR SHALL COORDINATE COLOR OF SPRINKLER HEADS WITH OWNER/ARCHITECT.
19. PROVIDE COMPONENTS FOR FULL FLOW TESTING OF BACKFLOW DEVICE.
20. UPON COMPLETION OF THE SPRINKLER SYSTEM INSTALLATION, TEST AND RE-TEST THE COMPLETE INSTALLATION. MAKE ALL CORRECTIONS AS NECESSARY TO SECURE ACCEPTANCE BY FIRE MARSHALL. FURNISH ALL TEST EQUIPMENT AND PERSONNEL REQUIRED.
21. AFTER THE FIRE SPRINKLER SYSTEM HAS BEEN COMPLETELY TESTED, INSPECTED AND APPROVED, SECURE A LETTER OF FINAL ACCEPTANCE FROM THE ADMINISTRATIVE AUTHORITY ADDRESSED TO THE SPRINKLER COMPANY RESPONSIBLE FOR THE INSTALLATION, PREPARED IN TRIPLICATE. DELIVER ALL THREE COPIES TO THE ARCHITECT.





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11-05-2025

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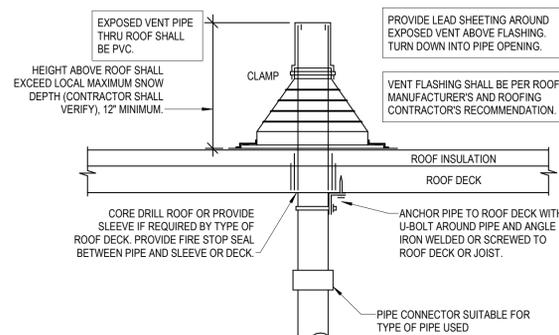
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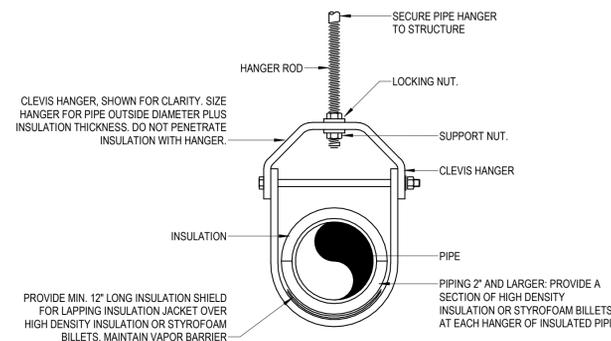
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 Date: 11-05-2025  
 Revisions:

Sheet Number:

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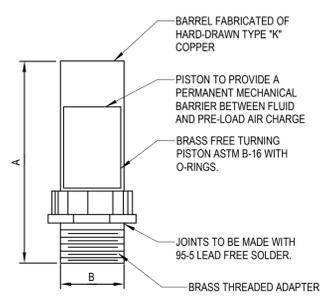
REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.



REFER TO SPECIFICATIONS FOR INSULATION TYPES, INSULATION THICKNESSES, HANGER TYPES, HANGER ROD CONNECTIONS TO STRUCTURE, AND HANGER SPACING.

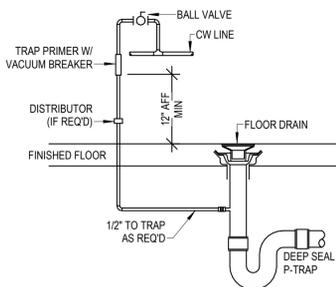
**6 VENT THRU ROOF**  
 SCALE: NTS

**5 INSULATED PIPE HANGER**  
 SCALE: NTS



| PPP SIZE | P.D.I. SYMBOL | FIXTURE UNIT RATINGS | A SIZE | B SIZE |
|----------|---------------|----------------------|--------|--------|
| 1/2"     | A             | 1 - 11               | 5"     | 1/2"   |
| 3/4"     | B             | 12 - 32              | 5"     | 3/4"   |
| 1"       | C             | 33 - 60              | 7"     | 1"     |
| 1-1/4"   | D             | 61 - 113             | 7"     | 1-1/4" |
| 1-1/2"   | E             | 114 - 154            | 9"     | 1-1/2" |
| 2"       | F             | 155 - 330            | 9"     | 2"     |

LOCATE ARRESTORS IN AN ACCESSIBLE LOCATION. PROVIDE ARRESTORS AS INDICATED PER SCHEDULE. ARRESTORS SHALL BE SAME SIZE AS PIPE INSTALLED ON, MINIMUM.



**3 TRAP PRIMER**  
 SCALE: NTS

| MARK | QTY | BASIS OF DESIGN |        | STORAGE (GAL) | INPUT (KW) | OUTPUT (MBH) | EWT (°F) | LWT (°F) | RECOVERY RATE (GPH) | ELECTRICAL        | OPERATING WEIGHT (LB) |
|------|-----|-----------------|--------|---------------|------------|--------------|----------|----------|---------------------|-------------------|-----------------------|
|      |     | MANUFACTURER    | MODEL  |               |            |              |          |          |                     |                   |                       |
| WH   | 1   | A.O. SMITH      | DEL-10 | 10            | 2          | 6.8          | 55       | 120      | 12.5                | 120/160, 16.7 FLA | 140                   |

- GENERAL NOTES (ALL UNITS AS APPLICABLE):**
- PROVIDE EXPANSION TANK PER PLANS AND EQUIPMENT SCHEDULE.
  - REFER TO PLANS AND DETAILS FOR MOUNTING REQUIREMENTS.
  - PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE.

| MARK | QTY | EQUIPMENT      | BASIS OF DESIGN |       | DESCRIPTION   |
|------|-----|----------------|-----------------|-------|---|
|      |     |                | MANUFACTURER    | MODEL |   |
| ET   | 1   | EXPANSION TANK | WATTS           | PLT-5 | FIXED BLADDER TYPE, 2.1 GALLON, FACTORY STANDARD PRECHARGE CAPACITY, IAPMO LISTED AND ANSISNF 61 CERTIFIED. |

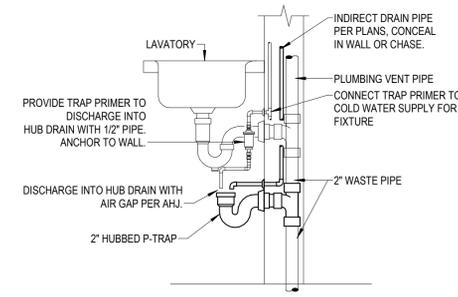
| MARK | QTY | TYPE         | BASIS OF DESIGN |                | GPM | HEAD (FT) | ELECTRICAL      | DESCRIPTION   |
|------|-----|--------------|-----------------|----------------|-----|-----------|-----------------|---|
|      |     |              | MANUFACTURER    | MODEL          |     |           |                 |   |
| GP   | 1   | GRINDER PUMP | LIBERTY         | 2484L SG202-24 | 40  | 60        | 208/160, 15 FLA | SIMPLEX GRINDER PUMP PACKAGE, INSTALL PER CIVIL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PACKAGE INCLUDES:<br>- (1) GRINDER PUMP - MODEL 2484L SG202, 2HP, SINGLE STAGE, 300 SERIES STAINLESS STEEL IMPELLER, 25' CORD LENGTH.<br>- STANDARD CONTROL PANEL - MODEL SXH24-3, NEMA 4X SIMPLEX PANEL WITH AUDIBLE (80 DB) AND VISUAL HIGH WATER ALARM, 3 FLOATS.<br>- PRE-ASSEMBLED BASIN - FIBERGLASS, 24" DIA X 8 1/2" H, ANTI-FLOTTATION FLANGE, STEEL COVER, 4" UNMOUNTED INLET HUB WITH FLANGE GASKET AND PIPE SEAL, 1-1/4" SCH 80 PVC SIDE DISCHARGE, 24" DISCHARGE HEIGHT.<br>- COMPLETE GUIDE RAIL ASSEMBLY (GALVANIZED STEEL) INCLUDING CHECK VALVE. |

| MARK | FIXTURE                     | BASIS OF DESIGN |                         | DESCRIPTION   |
|------|-----------------------------|-----------------|-------------------------|---|
|      |                             | MANUFACTURER    | MODEL                   |   |
| FCO  | FLOOR CLEANOUT              | ZURN            | Z1400                   | ADJUSTABLE FLOOR CLEANOUT, CAST IRON BODY, ABS TAPERED THREAD PLUG. IN UNFINISHED AREAS, PROVIDE POLISHED NICKEL-BRONZE LIGHT DUTY TOP. PROVIDE SCORIATED CAST IRON EXTRA-HEAVY-DUTY SECURED TOP WHERE LOCATED IN UNFINISHED AREAS SUCH AS MECHANICAL ROOMS OR WHERE SUBJECT TO DAMAGE.         |
| FD-1 | FLOOR DRAIN (SQUARE)        | ZURN            | ZN415S                  | 6" SQUARE "TYPE S" POLISHED NICKEL BRONZE TOP, SQUARE HEEL-PROOF, LIGHT-DUTY STRAINER, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS.   |
| FD-2 | FLOOR DRAIN (ROUND)         | ZURN            | Z511                    | 9" ROUND TOP, DURA-COATED CAST IRON DEEP SUMP BODY WITH BOTTOM OUTLET, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AND FRAME FOR HEAVY-DUTY CAST IRON DEEP FLANGE GRATE. PROVIDE WITH SEDIMENT BUCKET.  |
| TMV  | THERMOSTATIC MIXING VALVE   | WATTS           | LFUSG-B                 | +2°F UP TO 120°F, WITH BUILT-IN CHECK VALVES, LEAD-FREE BRASS BODY, AND COPPER THERMOSTAT. ASSE 1070.   |
| TP   | TRAP PRIMER (OR TRAP GUARD) | WATTS (MI-FAB)  | LFTP300 (-DR) (MI-GARD) | BRASS PRIMER VALVE WITH REMOVABLE OPERATING PARTS, LEAD FREE, INTEGRAL VACUUM BREAKER, AND GASKETED ACCESS COVER. PROVIDE DISTRIBUTION UNIT WHERE REQUIRED TO SERVE MULTIPLE TRAPS.<br>(INLINE DRAIN TRAP SEAL - UV RESISTANT ABS FRAME, SILICON RUBBER SEALING FLAPPERS, ASSE 1072 CERTIFIED.) |
| WHA  | WATER HAMMER ARRESTOR       | ZURN            | 1260XL                  | LEAD-FREE, CONFORM TO PDI WH-201, ANSI A112.26.1M, ASSE 1010. SIZE PER MANUFACTURER'S RECOMMENDATION.   |
| YCO  | YARD CLEANOUT               | ZURN            | Z1449 / Z1474           | CAST IRON FERRULE AND PLUG, DURA-COATED CAST IRON, DOUBLE-FLANGED HOUSING, AND EXTRA HEAVY DUTY SCORIATED CAST IRON COVER WITH LIFTING DEVICE AND VANDAL-PROOF SCREWS.  |

| MARK | FIXTURE  | BRANCH SIZES (MIN.) |      |        |        | ELECTRICAL | DESCRIPTION   |
|------|--|---------------------|------|--------|--------|------------|---|
|      |  | CW                  | HW   | WASTE  | VENT   |            |   |
| LV   | LAVATORY (ADA)   | 1/2"                | 1/2" | 1-1/2" | 1-1/2" | ---        | ADA COMPLIANT LAVATORY, AMERICAN STANDARD, MODEL 0366.421 "LUCERNE", 20-1/2" x 18-1/4", WALL-HUNG, WHITE, VITREOUS CHINA, FRONT OVERFLOW, 4" CENTERS, CONCEALED ARM SUPPORT, D-SHAPED BOWL, SELF-DRAINING DECK AREA WITH COUNTERED BACK AND SIDE SPLASH SHIELDS.<br><br>FAUCET: DELTA, MODEL 5055F, 4" CENTERSET, 1.2 GPM, POLISHED CHROME, WITH SINGLE HANDLE AND GRID STRAINER DRAIN. PROVIDE WITH 0.5 GPM AERATOR.<br><br>PROVIDE THERMOSTATIC MIXING VALVE (TMV) SET FOR 105°F. |
| UR   | URINAL   | 1"                  | ---  | 2"     | 1-1/2" | HARDWIRED  | URINAL: AMERICAN STANDARD, MODEL 6590.001EC "WASHBROOK", WHITE, VITREOUS CHINA, WALL-HUNG, TOP SPUD, ELONGATED FLUSHING RIM, EXTENDED SIDES, 24" RIM HEIGHT.  |
| WC   | WATER CLOSET (ADA, FLOOR MOUNTED, BOTTOM OUTLET, TANK) | 1/2"                | ---  | 4"     | 2"     | ---        | FLUSH VALVE: SLOAN, MODEL 186 ESS-0.5, SENSOR OPERATED, HARDWIRED, 0.5 GPF, POLISHED CHROME.<br>ADA COMPLIANT TOILET: AMERICAN STANDARD, MODEL 2467.016 "CADET", WHITE, VITREOUS CHINA, FLOOR MOUNTED, BOTTOM OUTLET, ELONGATED BOWL, PRESSURE-ASSISTED SIPHON JET, 1.6 GPF, 16-1/2" RIM HEIGHT FOR ADA COMPLIANCE, 12" ROUGH-IN.<br>SEAT: AMERICAN STANDARD, MODEL 5901.100SS, OPEN FRONT LESS COVER, SELF-SUSTAINING HINGES.  |

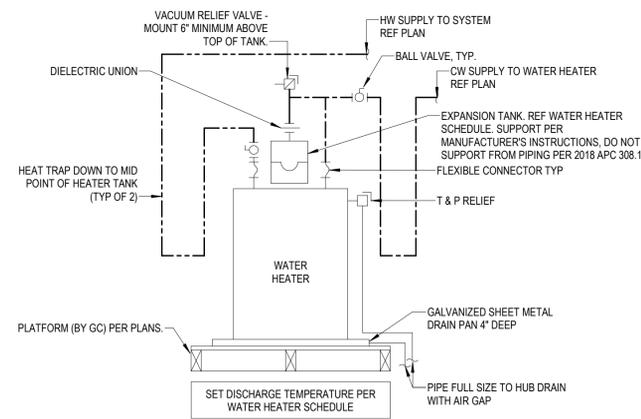
- GENERAL NOTES (ALL FIXTURES AS APPLICABLE):**
- FIXTURE AND HARDWARE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR, UNLESS NOTED OTHERWISE.
  - ADA TOILETS & URINALS: MOUNT CONTROLS ON ACCESSIBLE SIDE TO COMPLY WITH ADA REQUIREMENTS. COORDINATE WITH FIXTURE SUPPLIER.
  - WALL MOUNTED FIXTURES: PROVIDE AND INSTALL APPROPRIATE CARRIER FOR FIXTURE TYPE.
  - ADA LAVATORIES: PROVIDE INSULATION KIT (TRUEBRO E-Z SERIES "LAVGUARD") WHERE PIPING IS EXPOSED.
  - REFER TO ARCHITECTURAL PLANS FOR LEFT/RIGHT HAND ORIENTATION OF FIXTURES WHERE APPLICABLE.

**4 WATER HAMMER ARRESTOR**  
 SCALE: NTS



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. IF LAVATORY OR SINK IS HANDICAP ENABLED, INSTALL P-TRAP SO IT DOES NOT ENCRUSCH ON ADA ACCESSIBILITY SPACE.

**2 HUB DRAIN ABOVE FLOOR**  
 SCALE: NTS



**1 ELECTRIC WATER HEATER**  
 SCALE: NTS

**P1.0**







### DUCTED INDOOR UNIT SCHEDULE

| MARK | QTY | OUTDOOR UNIT | BASIS OF DESIGN |           | DESCRIPTION                    | NOMINAL TONS | TYPE               | CFM | ESP (IN. WG.) | COOLING CAPACITY (MBH) | HEATING CAPACITY (MBH) | REFRIGERANT |            | FILTER | ELECTRICAL | WEIGHT (LB.)       |    |
|------|-----|--------------|-----------------|-----------|--------------------------------|--------------|--------------------|-----|---------------|------------------------|------------------------|-------------|------------|--------|------------|--------------------|----|
|      |     |              | MFR             | MODEL     |                                |              |                    |     |               |                        |                        | TYPE        | CONNECTION |        |            |                    |    |
| AC-1 | 1   | HP-1         | LG              | KNUJB181A | SINGLE ZONE MID STATIC DUCTED. | 1.5          | SUPPLY OUTSIDE AIR | 485 | 0.25          | 22.0                   | 20.8                   | R-32        | 5/8        | 3/8    | WASHABLE   | 208/160<br>1.7 FLA | 62 |

**GENERAL NOTES:**

- UL OR ETL APPROVED. ENTIRE UNIT SHALL BE AHRI LISTED AND CERTIFIED.
- PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING (HANGING RODS, FLOOR STANDS, ETC.). PROVIDE APPROPRIATE VIBRATION ISOLATION FOR APPLICATION.
- SCHEDULED OUTSIDE AIR QUANTITIES ARE FOR OCCUPIED MODE AND DO NOT INCLUDE ECONOMIZER OR UNOCCUPIED MODES.
- STATIC PRESSURE SHOWN IS EXTERNAL TO UNIT. MANUFACTURER SHALL ADD ACCESSORY LOSSES TO THIS VALUE BEFORE SELECTING FAN.
- CONDENSATE TRAP SHALL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. ROUTE TO NEAREST APPROVED RECEPTOR PER PLANS OR AS OTHERWISE REQUIRED BY THE AHJ. REFER TO TRAP DETAIL.
- PROVIDE WITH CONDENSATE OVERFLOW SWITCH TO SHUT DOWN SYSTEM IN THE EVENT OF PRIMARY DRAIN PAN OVERFLOW.
- PROVIDE AND INSTALL REFRIGERANT PIPING AND NECESSARY COMPONENTS SIZED PER MANUFACTURER'S INSTRUCTIONS. BASE SIZING ON ACTUAL PIPING INSTALLATION LENGTHS AND CONFIGURATION. EXTERIOR INSULATION ON OUTDOOR REFRIGERANT LINES SHALL BE COVERED WITH UV RESISTANT JACKETS. REFER TO SPECIFICATIONS.
- ELECTRICAL DISCONNECT PROVIDED BY THE ELECTRICAL CONTRACTOR.
- PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT.

### DX OUTDOOR UNIT SCHEDULE

| MARK | QTY | BASIS OF DESIGN |           | DESCRIPTION        | NOMINAL TONS | COOLING        |                           | HEATING        |           | REFRIGERANT |            | COMPRESSOR | ELECTRICAL                       | WEIGHT (LB.)                     |     |
|------|-----|-----------------|-----------|--------------------|--------------|----------------|---------------------------|----------------|-----------|-------------|------------|------------|----------------------------------|----------------------------------|-----|
|      |     | MFR             | MODEL     |                    |              | CAPACITY (MBH) | EFF.                      | CAPACITY (MBH) | EFF.      | TYPE        | CONNECTION |            |                                  |                                  |     |
| HP-1 | 1   | LG              | KUSXB181A | INVERTER HEAT PUMP | 1.5          | 22.0           | 12.40 EER2<br>17.50 SEER2 | 20.8           | 9.2 HSPF2 | R-32        | 5/8"       | 3/8"       | INVERTER-DRIVE<br>VARIABLE SPEED | 208/160<br>16.0 MCA<br>25.0 MOCP | 136 |

**GENERAL NOTES:**

- UL OR ETL APPROVED. ENTIRE UNIT SHALL BE AHRI LISTED AND CERTIFIED.
- PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING. REFER TO DETAIL.
- PROVIDE AND INSTALL REFRIGERANT PIPING AND NECESSARY COMPONENTS SIZED PER MANUFACTURER'S INSTRUCTIONS. BASE SIZING ON ACTUAL PIPING INSTALLATION LENGTHS AND CONFIGURATION. EXTERIOR INSULATION ON OUTDOOR REFRIGERANT LINES SHALL BE COVERED WITH UV RESISTANT JACKETS. REFER TO SPECIFICATIONS.
- PROVIDE WITH LOUVERED HAIL GUARDS FOR CONDENSER COILS.
- ELECTRICAL DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.

### FAN SCHEDULE

| MARK | QTY | SERVICE         | BASIS OF DESIGN |            | DESCRIPTION                 | MOUNTING | CFM | ESP (IN. WC.) | DRIVE  | MOTOR SIZE | BHP    | WHEEL DIAM. (IN.) | FAN RPM | ELECTRICAL                      | WEIGHT (LB.) |
|------|-----|-----------------|-----------------|------------|-----------------------------|----------|-----|---------------|--------|------------|--------|-------------------|---------|---------------------------------|--------------|
|      |     |                 | MFR             | MODEL      |                             |          |     |               |        |            |        |                   |         |                                 |              |
| EF-1 | 2   | GENERAL EXHAUST | GREENHECK       | SP-LP0810W | CEILING MOUNTED EXHAUST FAN | CEILING  | 50  | 0.15          | DIRECT | 5 WATTS    | 0.0028 | 5-5/8             | 714     | 120/160<br>0.4 MCA<br>15.0 MOCP | 8            |

**GENERAL NOTES:**

- AMCA CERTIFIED AND UL OR ETL LISTED.
- PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING (HANGING RODS, ETC.).
- PROVIDE FLEXIBLE DUCT CONNECTIONS.
- STATIC PRESSURE SHOWN IS EXTERNAL TO UNIT. MANUFACTURER SHALL ADD DAMPER AND ACCESSORY LOSSES TO THIS VALUE BEFORE SELECTING FAN.
- PROVIDE INTEGRAL SPEED CONTROLLER.
- PROVIDE WITH GRAVITY BACKDRAFT DAMPER.
- PROVIDE WITH ALUMINUM CEILING GRILLE.
- PROVIDE WITH HOODED WALL CAP WITH BUILT-IN INSECT SCREEN AND BACKDRAFT DAMPER. FINISH TO BE SELECTED BY ARCHITECT.
- INTERLOCK EXHAUST FAN(S) WITH ROOM LIGHTS. COORDINATE WITH ELECTRICAL CONTRACTOR.

### ELECTRIC HEATER SCHEDULE

| MARK  | QTY | MFR   | MODEL    | DESCRIPTION  | MOUNTING  | MOTOR SIZE (HP) | HEATING       |        | ELECTRICAL                       | WEIGHT (LB.) | NOTES     |
|-------|-----|-------|----------|--|-----------|-----------------|---------------|--------|----------------------------------|--------------|-----------|
|       |     |       |          |  |           |                 | CAPACITY (KW) | STAGES |                                  |              |           |
| EUH-1 | 1   | REZNR | EUH-10   | INDOOR COMMERCIAL/INDUSTRIAL LOW-STATIC AXIAL FAN ELECTRIC RESISTIVE UNIT HEATER | SUSPENDED | 0.07            | 10.0          | 2      | 480/160<br>21.0 MCA<br>30.0 MOCP | 53           | 1-9       |
| EVH-1 | 1   | QMARK | AWH4307F | ARCHITECTURAL HEAVY-DUTY WALL HEATER   | SURFACE   | ---             | 3.0           | ---    | 277/160<br>10.8 FLA              | 25           | 1,2,10-14 |

**GENERAL NOTES:**

- UL OR ETL APPROVED.
- PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING (WALL BRACKETS, HANGING RODS, ETC.).
- PROVIDE WITH FACTORY-INSTALLED LOCKABLE, NON-FUSED DISCONNECT SWITCH.
- PROVIDE WITH TWO-STAGE THERMOSTAT.
- PROVIDE WITH HINGED ACCESS DOOR PANEL.
- PROVIDE WITH VIBRATION- AND NOISE-ISOLATED FAN MOTOR.
- PROVIDE WITH FULL FAN GUARD.
- PROVIDE WITH HIGH-TEMPERATURE LIMIT CONTROL WITH AUTOMATIC RESET AND AIR-PROVING SWITCH PROTECTION.
- PROVIDE WITH INTEGRATED HORIZONTAL LOUVERS AND REMOVABLE FRONT FACE.
- FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD OPTIONS.
- PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING (WALL BRACKETS, ETC.).
- PROVIDE WITH HIGH LIMIT SAFETY, MANUAL RESET.
- PROVIDE WITH FAN DELAY RELAY.
- PROVIDE WITH BUILT-IN TAMPER-RESISTANT THERMOSTAT.

### AIR DEVICE SCHEDULE

| MARK | SERVICE           | BASIS OF DESIGN |        | DESCRIPTION                                 | MODULE SIZE | NECK SIZE | NOTES |
|------|-------------------|-----------------|--------|---|-------------|-----------|-------|
|      |                   | MFR             | MODEL  |   |             |           |       |
| 1    | RETURN / TRANSFER | TITUS           | 50F    | ALUMINUM EGGRATE GRILLE, ROUND NECK         | 12" x 12"   | REF. PLAN |       |
| 2    | RETURN / TRANSFER | TITUS           | 50F    | ALUMINUM EGGRATE GRILLE, ROUND NECK         | 24" x 24"   | REF. PLAN |       |
| A    | SUPPLY            | TITUS           | TDC-AA | ALUMINUM LOUVERED FACE DIFFUSER, ROUND NECK | 12" x 12"   | REF. PLAN | A     |
| B    | SUPPLY            | TITUS           | TDC-AA | ALUMINUM LOUVERED FACE DIFFUSER, ROUND NECK | 24" x 24"   | REF. PLAN | A     |

**GENERAL NOTES (ALL DEVICES AS APPLICABLE):**

- ALL SUPPLY DIFFUSERS ARE 4-WAY/ALL-WAY THROW UNLESS NOTED OTHERWISE.
- DIFFUSER NECK SHALL BE SAME AS BRANCH DUCT SIZE UNLESS SHOWN OTHERWISE. REFER TO PLANS.
- PROVIDE WITH BORDER/FRAME COMPATIBLE WITH MOUNTING SURFACE TYPE. REFER TO ARCHITECTURAL DRAWINGS.
- FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD OPTIONS OR READY FOR PAINT.
- PROVIDE WITH DAMPER AT TAKEOFF TO EACH DEVICE AND WHERE OTHERWISE SHOWN ON PLANS.
- PROVIDE NECK FOR DUCT CONNECTION AS REQUIRED. PROVIDE MANUFACTURER'S SQUARE TO ROUND ADAPTOR (SRG) WHERE APPLICABLE.
- DIFFUSERS SHALL BE FULL FACE.
- INSULATE BACK PANEL OF ALL SUPPLY DIFFUSERS. INSULATION TYPE SHALL MATCH INSULATION USED ON SUPPLY DUCTWORK.
- MAX NOISE CRITERIA 28, UNLESS NOTED OTHERWISE.

**NOTES (APPLICABLE ONLY WHERE NOTED):**

- PROVIDE WITH OPPOSED BLADE DAMPER IN NECK, ADJUSTABLE FROM FACE.

## SPLIT SYSTEM SEQUENCE OF OPERATION

**GENERAL NOTES:**  
PROVIDE ALL NECESSARY COMPONENTS AND MATERIALS TO ACCOMPLISH THE SEQUENCE OF OPERATION WHETHER OR NOT EXPLICITLY STATED, SCHEDULED, OR NOTED OTHERWISE.

**CONTROL METHOD:**  
UNIT SHALL BE PLACED IN OCCUPIED/UNOCCUPIED AND HEAT/COOL MODES BY A 7-DAY PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL PROVIDE AUTOMATIC CHANGEOVER BETWEEN HEATING AND COOLING WITH 5°F DEADBAND. THE THERMOSTAT SHALL BE CAPABLE OF BEING TEMPORARILY PLACED IN OCCUPIED MODE OUTSIDE OF PROGRAMMED TIMES.

**OCCUPIED MODE:**  
DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPER SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS (REFER TO SCHEDULE). THE COOLING AND HEATING SHALL OPERATE PER FACTORY CONTROLS TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE SETPOINT.

**UNOCCUPIED MODE:**  
THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED MODE.

WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT OF 80.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND COOLING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT OF 80.0 DEG. F MINUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND COOLING SHALL BE DISABLED.

WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND HEATING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F PLUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND HEATING SHALL BE DISABLED.



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**Dock Addition  
Recv Office**



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Celebrating 50 years Est. 1974

1755 & 1767  
S Armstrong Ave  
Fayetteville, Arkansas

Sheet Contents:

Drawing Name: MECHANICAL SCHEDULES  
Date: 11-05-2025

Revisions:  
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**PLAN NOTES:**  
 1. AREA IS OUT OF SCOPE OF WORK.



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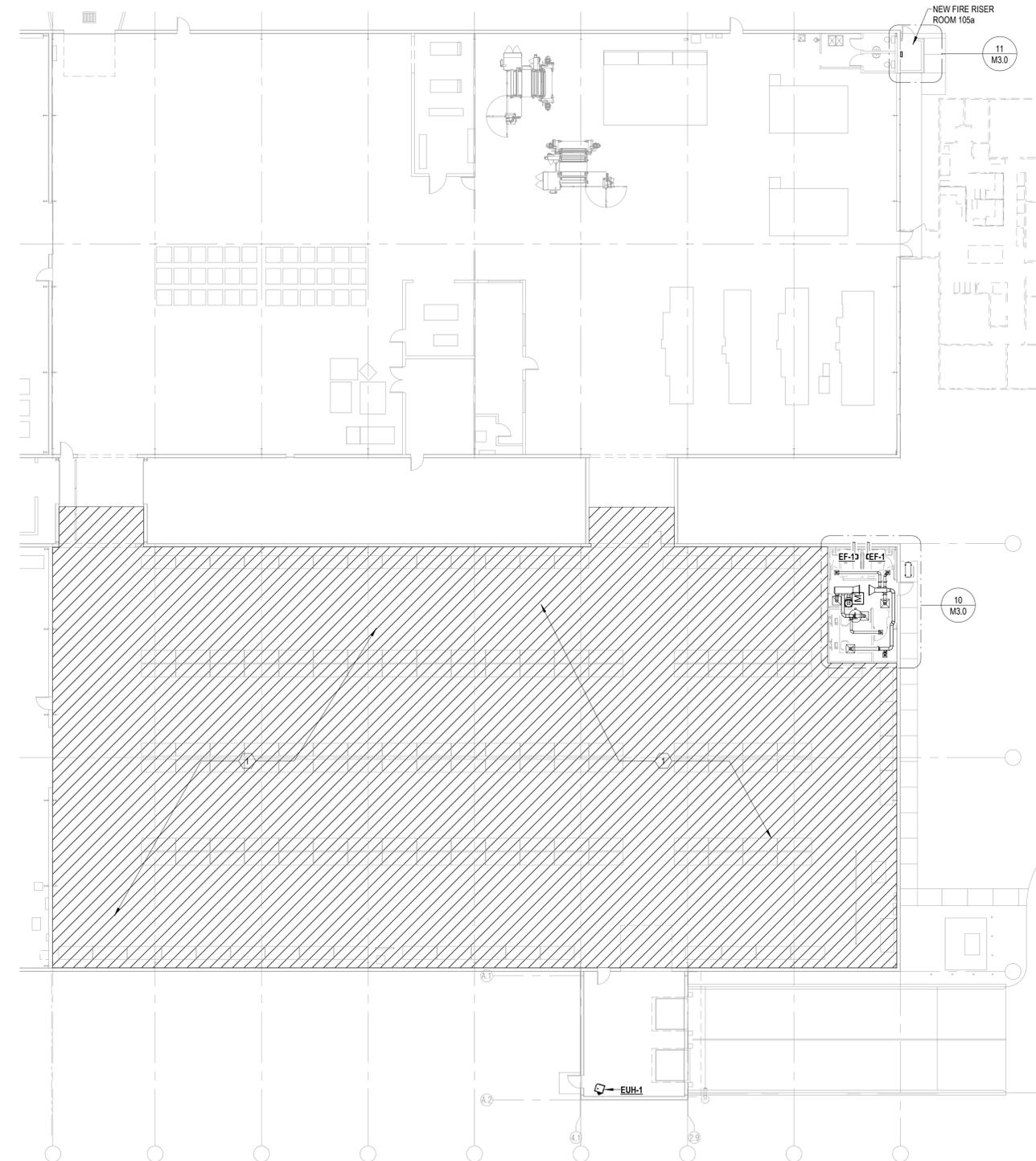
Sheet Contents:

Drawing Name: **MECHANICAL PLAN**  
 Date: 11-05-2025  
 Revisions:

Sheet Number:

**M2.0**

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**1 MECHANICAL PLAN**  
 1/16" = 1'-0"





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Drawing Name: MECHANICAL DETAILS  
Date: 11-05-2025

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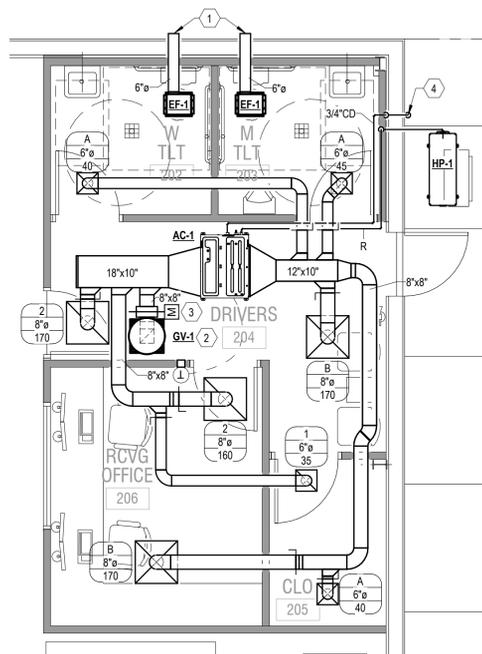
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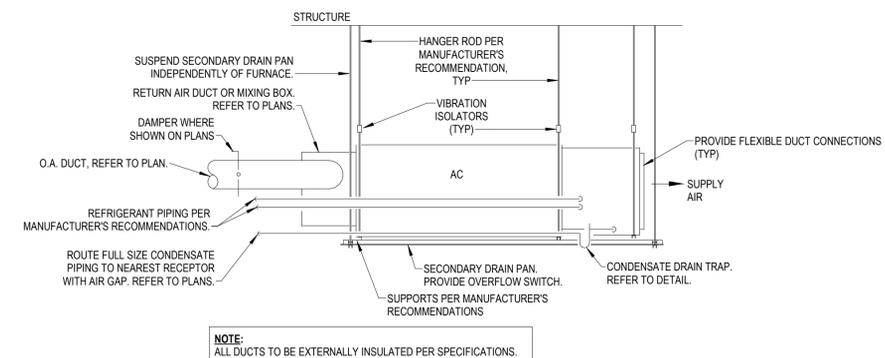
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**PLAN NOTES:**

- HOODED WALL CAP.
- GRAVITY VENTILATOR LOCATED ON ROOF.
- MOTORIZED DAMPER.

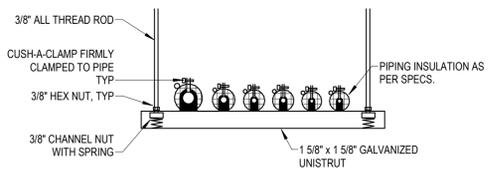
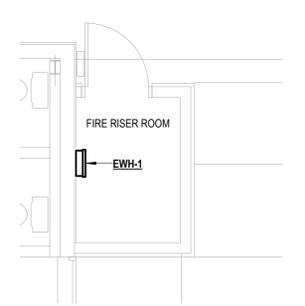


**10 OFFICE ENLARGED VIEW**  
SCALE: 1/4" = 1'-0"



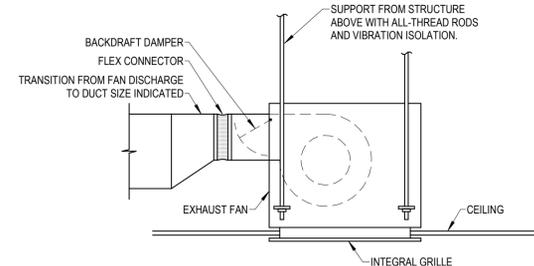
**9 HORIZONTAL FURNACE DETAIL**  
SCALE: NTS

**11 FIRE RISER ROOM ENLARGED ROOM**  
SCALE: 1/4" = 1'-0"

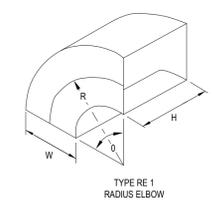


DUE TO DIFFERENCES IN EXPANSION RATES FROM TEMPERATURE DIFFERENCES, DO NOT SECURELY CLAMP LIQUID LINES ON SAME PIPE SUPPORT AS SUCTION LINES.

**8 REFRIGERANT LINE SUPPORT**  
SCALE: NTS

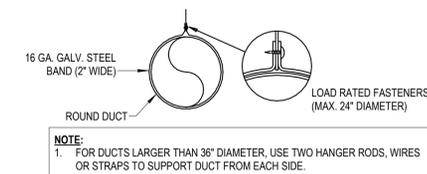


**7 CEILING MOUNTED CABINET EXHAUST FAN**  
SCALE: NTS

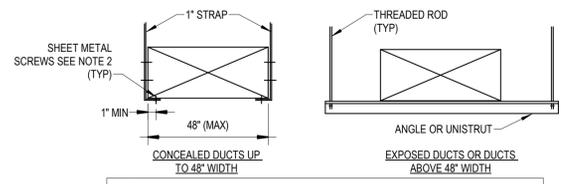


CENTERLINE R = 3W/2 UNLESS OTHERWISE SPECIFIED - NOT RESTRICTED TO 90° ELBOWS.  
WHERE AIR VELOCITY IS BELOW 1,000 FPM, R = W/2 MAY BE USED.  
SQUARE THROAT ELBOWS MAY NOT BE USED.

**6 SMACNA RADIUS ELBOW TYPE RE1 DETAIL**  
SCALE: NTS

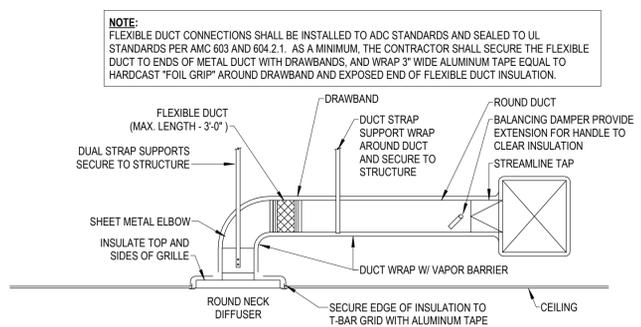


**5 ROUND DUCT SUPPORT**  
SCALE: NTS

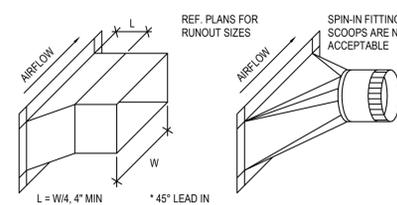


**NOTES:**  
1. USE THREADED ROD FOR ALL DUCTS LARGER THAN 48" DIAMETER WIDE.  
2. SHEET METAL SCREWS MAY BE OMITTED IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE DUCT.

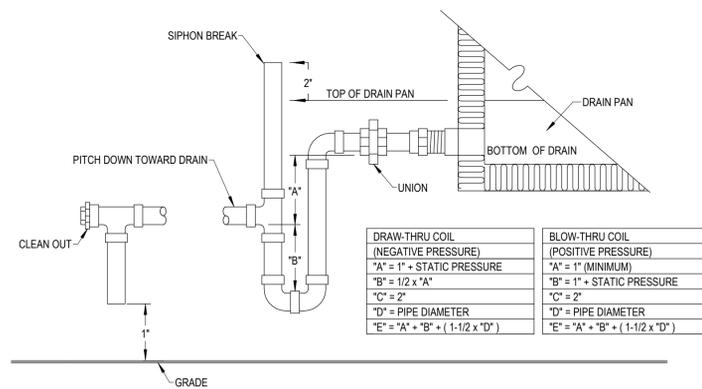
**4 RECTANGULAR DUCT SUPPORT**  
SCALE: NTS



**3 ROUND DUCT DIFFUSER CONNECTION**  
SCALE: NTS



**2 BRANCH DUCT FITTING**  
SCALE: NTS



| DRAW-THRU COIL<br>(NEGATIVE PRESSURE) | BLOW-THRU COIL<br>(POSITIVE PRESSURE) |
|---------------------------------------|---------------------------------------|
| "A" = 1" + STATIC PRESSURE            | "A" = 1" (MINIMUM)                    |
| "B" = 1/2 x "A"                       | "B" = 1" + STATIC PRESSURE            |
| "C" = 2"                              | "C" = 2"                              |
| "D" = PIPE DIAMETER                   | "D" = PIPE DIAMETER                   |
| "E" = "A" + "B" + (1-1/2 x "D")       | "E" = "A" + "B" + (1-1/2 x "D")       |

**1 CONDENSATE TRAP DETAIL**  
SCALE: NTS





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11-05-2025

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**Dock Addition  
Recvg Office**



**PACKAGING  
SPECIALTIES, INC**  
Celebrating 50 years Est. 1974

1755 & 1767  
S Armstrong Ave  
Fayetteville, Arkansas

Sheet Contents:

Drawing Name: ELECTRICAL SPECIFICATIONS  
Date: 11-05-2025  
Revisions:

Sheet Number:

**E0.0**

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**ELECTRICAL SPECIFICATIONS**

**DIVISION 26 - ELECTRICAL**

**I. GENERAL PROVISIONS**

**A. GENERAL CONDITIONS, CODES & STANDARDS**

- GENERAL CONDITIONS OF THE CONTRACT FOUND IN THE ARCHITECTURAL DRAWINGS, GENERAL AND SPECIAL CONDITIONS OF THE AMERICAN INSTITUTE OF ARCHITECTS (AIA) AND ANY OF THE OWNER'S GENERAL REQUIREMENTS SHALL APPLY UNLESS NOTED OTHERWISE.
- REFER TO THE GENERAL CONDITIONS ON THE ARCHITECTURAL DOCUMENTS AND THE GENERAL AND SPECIAL CONDITIONS OF THE AIA FOR ADDITIONAL REQUIREMENTS REGARDING, SAFETY, COORDINATION & COOPERATION, WORKMANSHIP, PROTECTION, CUTTING AND PATCHING, DAMAGE TO OTHER WORK, PRELIMINARY OPERATIONS, STORAGE, ADJUSTMENTS, CLEANING, ETC.
- ALL WORK SHALL BE IN CONFORMANCE WITH ALL LOCALLY ENFORCED, FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES INCLUDING ANY SPECIAL OWNER REQUIREMENTS IN ADDITION TO THOSE SPECIFIED. NFPA TO NECO, OSHA, AND UL SHALL BE THE MINIMUM STANDARD OF CODE COMPLIANCE. THE NEC VERSION THAT IS FOLLOWED BY THE LOCAL JURISDICTION SHALL BE THE MINIMUM REQUIREMENTS OF THE WORK.
- CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY LICENSES, PERMITS AND INSPECTIONS REQUIRED TO PROCEED WITH THE WORK. THIS SHALL INCLUDE ALL REQUIRED COORDINATION WITH THE LOCAL UTILITY COMPANIES AND THEIR ASSOCIATED FEES OR COSTS.
- THE ELECTRICAL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF THE WORK THAT IS CONTRACTED; THESE DRAWINGS ARE TO BE USED AS A GUIDE FOR LAYING OUT WORK AND TO VERIFY EQUIPMENT SPECIFICATIONS, LOCATIONS, AND COMPLIANCE. EQUIPMENT INSTALLED PER MANUFACTURER'S RECOMMENDATIONS SHALL ENSURE A COMPLETE, COORDINATE AND PROPERLY OPERATING SYSTEM. DETERMINE EXACT LOCATIONS BY JOB MEASUREMENTS, BY CHECKING WITH OTHER TRADES, AND BY REVIEWING ALL CONTRACT DOCUMENTS. ERRORS THAT ARE CAUSED BY IMPROPER CHECKING AND INSPECTION SHALL BE CORRECTED AT NO ADDITIONAL COST TO OWNER.
- A PRE-BID SITE VISIT SHALL BE PERFORMED TO BECOME AWARE OF THE SITE AND BUILDING CONDITIONS THAT THE WORK IS TO BE DONE.

**B. SCOPE OF WORK**

- THIS CONTRACT SHALL INCLUDE THE FURNISHING, INSTALLING, CONNECTING, AND OPERATION OF ALL EQUIPMENT WHICH IS A PART OF THE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY SIMILAR INSTALLATIONS. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK AND WHICH IS USUALLY INCLUDED IN WORK OF A SIMILAR CHARACTER SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED TO PROVIDE THE OWNER A COMPLETE, CODE APPROVED AND OPERATIONAL ELECTRICAL SYSTEM.
- CAREFULLY READ SPECIFICATION FOR ALL PARTS OF THE WORK SO AS TO BECOME FAMILIAR WITH ALL TRADES' WORK SCOPE. CONSULT WITH OTHER TRADES TO INSURE PROPER LOCATIONS AND AVOID INTERFERENCES. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER BEFORE WORK IS COMMENCED.
- CONTRACTORS SHALL BE HELD TO HAVE EXAMINED THE PREMISES AND SITE SO AS TO COMPARE THEM WITH THE DRAWINGS AND SPECIFICATIONS; NOTE THE EXISTING CONDITIONS AND OTHER WORK THAT WILL BE REQUIRED, AND THE NATURE OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. NO ALLOWANCE SHALL BE MADE TO THE CONTRACTOR BY REASON OF THIS FAILURE TO HAVE MADE SUCH EXAMINATION OR OF ANY ERROR ON HIS PART.
- ALL EXISTING UTILITY AND ELECTRICAL SERVICES SHALL BE FIELD VERIFIED. CORRECTIONS TO THE DESIGN AND INSTALLATION SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
- PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. ALL CORE DRILLING OR CUTTING OF FIRE RATED FLOORS, SHAFTS, AND WALLS SHALL BE FIRESHIPPED PRIOR TO FINISH PARCHING. ALL PENETRATIONS SHALL BE FIRE SEALED TO MATCH THE FIRE RATING OF THE FLOORS, SHAFTS, AND WALLS PENETRATED. ACCEPTABLE MANUFACTURERS OF FIRESHIPPING ARE: HILTI, 3M CORP, RECTORSEAL, AND SPECIFY TECHNOLOGY. PROVIDE THE PROPER FIRE-STOPPING APPLICATION BASED ON MANUFACTURER'S INTENDED USE.
- TEMPORARY ELECTRICAL SERVICE, LIGHTING, AND RELATED WIRING SHALL BE PROVIDED TO OSHA REQUIREMENTS FOR THE USE OF ALL TRADES DURING CONSTRUCTION.
- TEMPERATURE AND INTERLOCK CONTROL COMPONENTS AND ALL RELATED WIRING AND CONDUIT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- THIS CONTRACT SHALL ALSO INCLUDE ALL LABOR, MATERIALS AND MISCELLANEOUS EXPENSES REQUIRED FOR ALL REQUIRED ELECTRICAL DEMOLITION OF THE EXISTING AREAS BEING RENOVATED.
  - THE DEMOLITION SHALL CONSIST OF THE COMPLETE REMOVAL (PROPERLY DISPOSED OFF SITE UNLESS OTHERWISE NOTED) OF ALL ELECTRICAL EQUIPMENT, WIRING, CONDUIT, MATERIALS, ETC. NOT REQUIRED IN THE FINAL DESIGN AND INSTALLATION OF THE ELECTRICAL SYSTEMS FOR THE NEW RENOVATED AREAS.
  - ALL UNDERGROUND SERVICES NOT BEING REUSED SHALL BE CAPPED BELOW THE FLOOR, WIRING REMOVED, AND FLOOR PENETRATIONS REPAIRED TO MATCH ADJACENT SURFACES.
  - ALL ABOVE GROUND CIRCUITS SHALL BE REMOVED BACK TO THE SOURCE UNLESS INDICATED OTHERWISE.
  - COORDINATE ALL DEMOLITION WITH THE ARCHITECTURAL DOCUMENTS, THE ARCHITECT, AND THE OWNER'S GENERAL REQUIREMENTS.
  - THE GENERAL CONTRACTOR SHALL VERIFY SITE LIGHTING BASE DETAILS WITH STRUCTURAL ENGINEER TO VERIFY APPLICABILITY OF POLE/FIXTURE BASE WITH LOCAL SOIL CONDITIONS.
  - ALL WORK INCLUDING, BUT NOT LIMITED TO PARTS, MATERIAL, EQUIPMENT AND LABOR SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY THE ENGINEER AND OWNER. WHERE AN EQUIPMENT MANUFACTURER HAS A WARRANTY THAT EXCEEDS ONE YEAR, THAT WARRANTY PERIOD SHALL APPLY TO THIS PROJECT.

**C. DOCUMENTS**

- THE DRAWINGS ARE DIAGRAMMATIC; ALL WORK SHALL BE PERFORMED AS INDICATED ON THE DRAWINGS UNLESS EXISTING CONDITIONS OR COORDINATION ISSUES REQUIRE CHANGES. THESE CHANGES SHALL BE MADE WITH NO ADDITIONAL COST TO THE OWNER.
- ANY INCIDENTAL ITEMS OR LABOR, ETC. NOT INCLUDED IN THE SPECIFICATIONS OR THE DRAWINGS BUT REASONABLY IMPLIED AS NECESSARY FOR THE COMPLETE INSTALLATION OF ALL APPARATUS SHALL BE INCLUDING IN BID.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED EVEN THOUGH NOT MENTIONED IN BOTH.
- IF ERRORS ARE FOUND IN THE DRAWINGS OR SPECIFICATIONS OR DISCREPANCIES OCCUR BETWEEN THE SAME, OR BETWEEN THE FIGURES ON THE DRAWINGS, AND THE SCALE OF SAME OR BETWEEN THE LARGER AND SMALLER DRAWINGS, OR IN THE DESCRIPTIVE MATTER ON THE DRAWINGS SHALL BE REFERRED TO THE OWNER FOR REVIEW AND FINAL DECISION PRIOR TO THE BID DUE DATE.
- THE BIDDING OF THIS WORK WILL CONTEMPLATE THE USE OF EQUIPMENT AND MATERIALS EXACTLY AS SPECIFIED HEREIN. WHERE MORE THAN ONE MANUFACTURER IS MENTIONED ANY ONE MAY BE UTILIZED. SUBSTITUTE MANUFACTURERS MAY BE OFFERED ONLY AS AN ALTERNATE TO THE SPECIFIED EQUIPMENT AND MATERIAL AND MUST BE SUBMITTED AS SPECIFIED IN THE ARCHITECTURAL DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE ALTERNATE IS A SATISFACTORY EQUAL PRIOR TO THE SUBMISSION FOR APPROVAL TO THE ENGINEER. THE ARCHITECT OR ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY SUBSTITUTION AND THE DECISION IS FINAL.
- MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THE SYSTEMS CAN BE OF ANY RECOGNIZED MANUFACTURER, PROVIDED THESE ITEMS MEET MINIMUM STANDARDS AS SET IN THESE SPECIFICATIONS, ARE FROM A MANUFACTURER WITH A MINIMUM OF 5 YEAR EXISTENCE, AND IT IS UL LISTED. REFER TO EACH SECTION FOR ANY SPECIFIC REQUIREMENTS.

**D. COORDINATION**

- CONTRACTOR SHALL LOCATE, IDENTIFY AND PROTECT ANY EXISTING SERVICES WHICH ARE REQUIRED TO BE MAINTAINED OPERATIONAL AND SHALL EXERCISE EXTRA CAUTION IN THE PERFORMANCE OF ALL WORK TO AVOID DISTURBING SUCH FACILITIES. ALL COSTS FOR REPAIR OF DAMAGES TO SUCH SERVICES SHALL BE PAID BY THE CONTRACTOR CAUSING THE DAMAGE.
- EACH CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO OTHER WORK CAUSED BY HIS WORK OR THROUGH THE NEGLIGENCE OF HIS, OR HIS SUB-TRADE'S PERSONNEL. ALL PATCHING, REPAIRING, REPLACEMENT AND PAINTING, ETC. SHALL BE DONE AS DIRECTED BY THE OWNER BY THE CRAFTSMEN OF THE TRADES INVOLVED. THE COSTS OF SUCH WORK SHALL BE PAID BY THE CONTRACTOR CAUSING THE DAMAGE.
- IT IS ESSENTIAL THAT ALL WORK AT THE PROJECT BE DONE AT SUCH TIME AND IN SUCH MANNER AS NOT TO INTERFERE WITH THE OPERATIONS OF THE SPACE, ADJACENT SPACES, OR FACILITY. A WORK SCHEDULE SHALL BE ARRANGED WITH THE OWNER, INCLUDING PREMIUM TIME WORK TO FACILITATE WORK WITH A MINIMUM OF INTERFERENCE TO THE OWNER'S OPERATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIREMENTS WITH OTHER TRADES, SUCH AS CONCEALED CONDUIT SPACES, PENETRATIONS, DIMENSION OF EQUIPMENT, ETC. TO ENSURE AN ACCURATE INSTALLATION. PROVIDE TRIM FOR EQUIPMENT MATERIALS THAT REQUIRE IT TO PROPERLY FIT THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. ALL FINAL TRIM SELECTIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL VERIFY EQUIPMENT FITS IN SPACES SHOWN PRIOR TO ROUGH-IN AND INSTALLATION.

**E. METHODS**

- EXCAVATIONS SHALL BE MADE IN OPEN TRENCHES. FLOORS SHALL BE SAW CUT. CONDUIT SHALL BE LAID ON AN APPROPRIATELY GRADED 6" BED OF CLEAN AND DRY SAND. ENGINEERED FILL SHALL BE USED TO BACKFILL TO 6" ABOVE THE CONDUIT. BACKFILL THE REMAINDER OF THE TRENCH UTILIZING THE EXCAVATED MATERIAL IF APPROVED BY THE ARCHITECT OR THE OWNER. IF THE EXCAVATED MATERIALS ARE NOT ACCEPTABLE, ENGINEERED FILL ACCEPTABLE TO THE ARCHITECT SHALL BE UTILIZED TO BACKFILL THE REMAINDER OF THE TRENCH. BACKFILL SHALL BE ACCOMPLISHED IN 9" LIFTS WITH ALL LIFTS COMPACTED TO 95% PROCTOR. PATCH FLOOR TO MATCH EXISTING.
- EQUIPMENT, CONDUIT, ETC. SHALL NOT BE SUPPORTED FROM ANY CEILINGS, OTHER PIPING, OTHER CONDUIT OR DUCTWORK, ROOF DECK, OR JOIST BRIDGING. ITEMS SHALL BE SUPPORTED FROM ACCEPTABLE STRUCTURAL BUILDING COMPONENTS AS DETERMINED BY THE ARCHITECT AND STRUCTURAL ENGINEER.
- ALL ROOF PENETRATIONS, FLASHINGS AND COUNTER FLASHINGS SHALL BE PERFORMED BY THE OWNER'S ROOFING CONTRACTOR AT THE REQUESTING CONTRACTORS COST. PENETRATIONS SHALL BE MADE WITHIN MECHANICAL EQUIPMENT CURBS WHEN POSSIBLE.
- ALL EQUIPMENT AND MATERIALS SHALL BE SAFELY STORED AND PROTECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, UNTIL INSTALLATION. PLUG OR CAP OPEN ENDS OF CONDUIT WHILE STORED TO PREVENT DIRT AND DEBRIS FROM ENTERING.

**F. SUBMITTALS**

- SHOP DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT OF ALL EQUIPMENT AND ACCESSORIES PROVIDED FOR THE PROJECT WHETHER SPECIFIED HERE-IN OR ON THE DRAWINGS. REVIEW OF THE SHOP DRAWINGS SHALL BE FOR GENERAL DESIGN CONCEPT AND ADHERENCE WITH THE SPECIFICATIONS. QUANTITY OF SHOP DRAWINGS SUBMITTED SHALL BE AS SPECIFIED BY THE ARCHITECT. SHOP DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR SHOWING LOCATIONS AND MEASUREMENTS FROM COLUMNS OF ALL CONCEALED AND EXPOSED PIPING, DUCTWORK, CONDUIT, EQUIPMENT, ACCESSORIES, ETC., AND SUBMITTED PRIOR TO INSTALLATION. THE OWNER MAY MAKE REPRODUCIBLE COPIES OF THEIR DRAWINGS AVAILABLE FOR USE IN PREPARATION OF SHOP DRAWINGS, HOWEVER THE OWNER SHALL NOT BE HELD RESPONSIBLE FOR NOT CONFIRMING ALL INFORMATION ON THE DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION.
- AT A MINIMUM, SUBMITTALS SHALL BE PROVIDED FOR ALL LIGHT FIXTURES, LIGHTING CONTROLS, AND ALL ELECTRICAL DISTRIBUTION EQUIPMENT SUCH AS PANELBOARDS/SWITCHBOARDS, DISCONNECTS, TRANSFORMERS, ETC. SHOP DRAWINGS SHALL BE SUBMITTED FOR LOW VOLTAGE SYSTEMS SUCH AS FIRE ALARM, LIGHTNING PROTECTION, ETC. SUBMITTALS AND SHOP DRAWINGS SHALL NOT CONTAIN THE ENGINEER'S NAME ON DOCUMENTS.
- PROJECT RECORD DOCUMENTS - MAINTAIN AT THE JOBSITE ONE COPY OF ALL CONTRACT DOCUMENTS CLEARLY MARKED AS "PROJECT RECORD COPY". THESE RAWINGS ARE TO BE MAINTAINED IN GOOD CONDITION, UPDATED DAILY FOR CHANGES ENCOUNTERED AND AVAILABLE AT ALL TIMES FOR INSPECTION BY THE OWNER. DO NOT USE FOR FIELD CONSTRUCTION! PROJECT RECORD DOCUMENTS ARE TO BE KEPT CURRENT WITH EXACT DIMENSIONS OF ALL WORK, EQUIPMENT, DISTRIBUTION CONDUIT, CIRCUITS, ETC. MARK ALL INFORMATION IN RED LINES AND NOTES SO AS TO BE EASILY IDENTIFIED FROM THE BASE DRAWING. UPON COMPLETION OF THE WORK, ONE SET OF THESE DOCUMENTS SHALL BE TURNED OVER TO THE OWNER AS ONE QUALIFICATION FOR FINAL PAYMENT.
- THREE COMPLETE SETS OF AS-BUILT DOCUMENTATION SHALL BE PROVIDED. IT SHALL INCLUDE, BUT NOT BE LIMITED TO ACCURATE PLAN DRAWINGS, WIRING DIAGRAMS AND OPERATION AND MAINTENANCE MANUALS.

**G. WARRANTIES**

- WARRANTIES SHALL BE PROVIDED FOR EQUIPMENT BASED ON ARCHITECT'S REQUIREMENTS STATED IN THEIR SPECIFICATIONS.

**II. PRODUCTS**

**A. CONDUIT**

- CONDUIT SHALL BE HEAVY WALL RIGID GALVANIZED STEEL WHERE EXPOSED AND SUBJECT TO DAMAGE, 8'-0" AFF AND BELOW, AND IN WET LOCATIONS WHERE INDICATED ON THE DRAWINGS. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC AND SHALL BE CONCRETE ENCASED (3" MINIMUM) WHERE INDICATED ON THE DRAWINGS. A TRANSITION SHALL BE MADE TO HEAVY WALL RIGID GALVANIZED STEEL BEFORE PVC CONDUITS PENETRATE THE FLOOR SLAB. INTERIOR CONDUITS SHALL BE ELECTRICAL METALLIC TUBING (EMT), METAL CLAD (MC) CABLE MAY BE USED IF APPROVED BY THE OWNER, AND INSTALLED IN LOCATIONS PERMITTED BY CODE.
- FLEXIBLE METAL CONDUIT SHALL BE USED FROM OUTLET BOX TO INDIVIDUAL RECESSED LIGHT FIXTURES, AND FOR FINAL CONNECTIONS TO MOTORS AND OTHER DEVICES SUBJECT TO VIBRATION. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED IN WET LOCATIONS.
- COORDINATE SLEEVE PENETRATIONS AND FIRESHIPPING APPLICATION WITH THE APPROPRIATE DISCIPLINE PRIOR TO INSTALLATION.
- SUPPORT SYSTEMS SHALL BE STEEL SLOTTED CHANNEL. 12-GAUGE, 1-5/8 INCH X 1-5/8 INCH. ACCEPTABLE MANUFACTURERS: HILTI, POWER-STRUT, THOMAS & BETTS CORP, UNISTRUT, COOPER B-LINE, ERICO INTERNATIONAL CORP. FINISHES SHALL BE MADE PER ARCHITECTURAL REQUIREMENTS.
- CONDUIT SHALL BE INSTALLED CONCEALED ABOVE SUSPENDED CEILINGS OR IN WALLS OR FLOORS WHEREVER POSSIBLE, UNLESS NOTED OTHERWISE.
- INSTALL CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES. A MAXIMUM OF (480) 90 DEGREE BENDS WILL BE ALLOWED BETWEEN CONNECTIONS. SECURE AND FASTEN CONDUIT IN APPROVED METHOD TO BUILDING STRUCTURAL COMPONENTS. DO NOT CONNECT TO SUSPENDED CEILING SYSTEMS.
- LOW VOLTAGE CABLING SHALL BE INSTALLED IN EMT WHEN INSTALLED VERTICALLY WITHIN WALLS. STUB CONDUIT UP ABOVE WALL AND PROVIDE BUSHING ON END TO PROTECT WIRE WHILE PULLING.
- USE BUSHINGS, LOCKNUTS, AND COMPRESSION TYPE FITTINGS FOR FINAL CONNECTIONS OF CONDUIT TO EQUIPMENT.

**B. CONDUIT FITTINGS AND BOXES**

- INTERIOR OUTLET BOXES SHALL BE STANDARD GALVANIZED SHEET STEEL TYPE, NOT LESS THAN 14 GAUGE IN THICKNESS, WITH KNOCKOUT OPENINGS, EXTENSIONS, PLASTER RINGS AND COVER PLATES TO ACCOMMODATE THE DEVICES INSTALLED. COVER PLATES SHALL BE SMOOTH PLASTIC TO MATCH DEVICE COLOR. USE STEEL PLATES WITH ROUNDED CORNERS FOR SURFACE BOXES. OUTDOOR (WET LOCATION) OUTLET BOXES SHALL BE CAST ALUMINUM TYPE WITH DEVICE COVERS TO SUIT.
- OUTLET BOXES SHALL NOT BE LESS THAN 4 INCHES SQUARE, 1-1/2 INCHES DEEP.
- COUPLINGS AND CONNECTORS FOR EMT SHALL BE DIE CAST ZINC OR STEEL. BUSHING SHALL BE GROUNDING TYPE WITH INSULATING PLASTIC INSERT.

**C. WIRE AND CABLE**

- CONDUCTORS FOR POWER AND LIGHTING SHALL BE NEW 600-VOLT, 90°C, TYPE XHHW OR THHN/THWN-2 INSULATION, MINIMUM SIZE #12-AWG, EXCEPT FOR CONTROL WIRING WHICH MAY BE #14-AWG. OTHER SIZES SHALL BE AS NOTED ON THE DRAWINGS. CONDUCTORS SHALL BE COPPER, UNLESS OTHERWISE APPROVED BY THE OWNER. CONDUCTORS #10 AWG AND SMALLER TO BE SOLID COPPER.
- BRANCH CIRCUIT RUNS EXCEEDING 100 FEET IN TOTAL LENGTH FROM THE PANELBOARD TO THE LAST DEVICE, SHALL BE #10-AWG CONDUCTORS UNLESS OTHERWISE NOTED.
- COMPRESSION TYPE LUGS AND CONNECTORS SHALL BE USED FOR ALL TERMINATIONS AND SPLICES.
- ALL LOW VOLTAGE COMMUNICATIONS, FIRE ALARM, DATA, SECURITY, TELEPHONE AND ALL OTHER MISCELLANEOUS LOW VOLTAGE WIRING INSTALLED IN CEILING SHALL BE PLENUM RATED. USE CAT6 CABLE FOR ETHERNET COMMUNICATIONS. WIRING TYPE SHALL BE DETERMINED BY USING SUGGESTED TYPE FROM MANUFACTURER OF THE RESPECTIVE EQUIPMENT.
- IF NO WIRE SIZE IS SHOWN ON PLANS THEN USE THE ASSOCIATED SIZE AS REQUIRED BY NEC.
- ALL WIRING TO BE INSTALLED IN APPROVED RACEWAY AND ENCLOSURES.
- USE INSULATION COLOR SCHEMES AS SUGGESTED IN NEC.
- AN INSULATED GREEN CONDUCTOR SHALL BE PROVIDED IN EACH RACEWAY FOR GROUND WIRE.

**D. WIRING DEVICES**

- DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE, GROUNDING TYPE, NEMA 5-20R, RATED FOR 20 AMPS, 125 VOLTS, WITH PROVISIONS FOR BACK AND SIDE WIRING. PROTECTIVE MEASURES SHALL BE FIELD VERIFIED. DUPLEX RECEPTACLES SHALL BE PROVIDED WHERE INDICATED. THESE CIRCUITS SHALL BE DEDICATED NEUTRAL WIRE. EACH RECEPTACLE THAT REQUIRES GFI PROTECTION SHALL HAVE ITS OWN INTEGRAL GFI, AND NOT BE RELIANT ON AN UPSTREAM GFI RECEPTACLE. A GFI CIRCUIT BREAKER IS ACCEPTABLE.
- SWITCHES SHALL BE TOGGLE OPERATED, QUIET TYPE, RATED FOR 20 AMPS, 120/277 VOLTS, WITH PROVISIONS FOR BACK AND SIDE WIRING. THREE WAY AND FOUR WAY SWITCHES SHALL BE PROVIDED WHERE INDICATED.
- DIMMERS SHALL BE LUTRON "NOVA T" STAR SERIES, OF A RATING, VOLTAGE AND WATTAGE SUITABLE FOR LOAD SERVED, OR APPROVED EQUAL.
- COULRS OF DEVICES SHALL BE SELECTED BY ARCHITECT.
- WIRING DEVICES SHALL BE SPECIFICATION GRADE, AS MANUFACTURED BY HUBBELL, PASS & SEYMOUR, ARROW HART, LEVITON AND GENERAL ELECTRIC.
- LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. DEVICES GROUPED TOGETHER SHALL HAVE SIMILAR FINISH AND BE MOUNTED AT SAME HEIGHT FOR UNIFORMITY.

**E. LIGHTING AND RECEPTACLE PANELBOARDS**

- BRANCH CIRCUIT PANELBOARDS SHALL BE DEAD FRONT TYPE, WITH MAIN LUGS OR MAIN OVERCURRENT DEVICE AS INDICATED. BRANCH OVERCURRENT DEVICES AS NOTED AND AN EQUIPMENT GROUND BAR, ALL IN A SURFACE OR FLUSH MOUNTED SHEET STEEL ENCLOSURE. MINIMUM SHORT CIRCUIT CAPACITY SHALL BE 10,000 AMPS SYMMETRICAL FOR 120/208V, AND 18,000 AMPS SYMMETRICAL FOR 277/480V APPLICATION UNLESS NOTED OTHERWISE.
- CIRCUIT BREAKERS SHALL BE BOLT ON TYPE, WITH MOLDED PLASTIC CASE, 1, 2, OR 3 POLE AS INDICATED, QUICK-MAKE, QUICK-BREAK; AND THERMAL-MAGNETIC TRIP DEVICE.
- ALL BREAKERS FEEDING HVAC EQUIPMENT SHALL BE HACR RATED, UNLESS OTHERWISE NOTED.
- ALL BREAKERS IN RESIDENTIAL OCCUPANCIES SHALL BE ARC-FAULT TYPE, UNLESS OTHERWISE NOTED.
- PANELBOARDS SHALL BE AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS, AND CUTLER HAMMER.
- MULTI-WIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH A MEANS TO SIMULTANEOUSLY DISCONNECT ALL CIRCUITS THAT SHARE A NEUTRAL.

**F. DISTRIBUTION TRANSFORMERS**

- TRANSFORMERS SHALL BE ENERGY SAVING TYPE, DRY TYPE, 115 DEGREE RISE WITH 2 TAPS ABOVE AND 4 TAPS BELOW NORMAL VOLTAGE. TRANSFORMERS SHALL BE AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS, CUTLER HAMMER, AND ACME.

**G. SAFETY SWITCHES AND MOTOR STARTERS**

- SAFETY SWITCHES SHALL BE FUSIBLE OR NON-FUSIBLE AS INDICATED ON THE DRAWINGS. SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK, HEAVY DUTY VISIBLE BLADE TYPE. ENCLOSURES SHALL BE NEMA 1 TYPE UNLESS OTHERWISE INDICATED ON THE DRAWINGS. NEMA 3R IN WET LOCATIONS. FUSES SHALL BE DUAL ELEMENT - TIME DELAY TYPE.
- MAGNETIC MOTOR STARTERS SHALL BE COMBINATION TYPE WITH THERMAL OVERLOAD, INTEGRAL FUSED SAFETY SWITCH, H-O-A SELECTOR SWITCH, CONTROL TRANSFORMER, RUNNING PILOT LIGHT, NEMA TYPE 1 ENCLOSURE, AND (2) NORMALLY OPEN AND (2) NORMALLY CLOSED AUXILIARY CONTACTS.
- ALL MOTORS OVER 1/8 HP SHALL BE PROVIDED WITH THERMAL OVERLOAD PROTECTION. OVERLOAD PROTECTION SHALL BE PROVIDED INTEGRAL WITH THE MOTOR WINDINGS AND/OR MOTOR CONTROLLER (PROVIDED BY OTHERS) UNLESS OTHERWISE INDICATED ON DRAWINGS.
- SWITCHES AND STARTERS TO BE MANUFACTURED BY SQUARE D, EATON, SIEMENS, OR GENERAL ELECTRIC.
- DO NOT DOUBLE LOG EQUIPMENT UNLESS SPECIFICALLY DESIGNED FOR IT.

**H. LUMINAIRES AND LAMPS**

- ALL LUMINAIRES SHALL BE SPECIFIED ON THE LUMINAIRE SCHEDULE. FIXTURES SHALL BE LED TYPE UNLESS NOTED OTHERWISE.
- BALLASTS SHALL BE INSTANT START, ELECTRONIC TYPE, CLASS P, "A" SOUND RATING AND MAXIMUM HARMONIC CONTENT OF 10%. DIMMING BALLASTS SHALL BE 3-WIRE TYPE, WITH DIMMING CAPABILITY TO 10% OF RATED FULL OUTPUT.
- RECESSED LUMINAIRES WITH INCANDESCENT LAMPS SHALL BE PROVIDED WITH THERMAL PROTECTION.
- FLUORESCENT LAMPS SHALL BE 300 K UNLESS NOTED OTHERWISE. INCANDESCENT LAMPS SHALL BE 130 VOLT, HIGH INTENSITY DISCHARGE LAMPS SHALL BE COATED.
- EMERGENCY LIGHTING AS INDICATED, SHALL PROVIDE A MINIMUM OF ONE FOOTCANDLE ALONG THE PATH OF EGRESS. EMERGENCY FIXTURE SUPPLIER SHALL PROVIDE FOOTCANDLE PRINTOUT TO VERIFY EMERGENCY LIGHT LEVELS.
- ALL FIXTURE / BALLAST / LAMP COMBINATIONS SHALL BE ENERGY SAVING TYPE.

**I. SERVICE**

- COORDINATE ALL REQUIREMENTS AND PROVIDE ALL MATERIALS AND SERVICE AS REQUIRED BY UTILITY. COORDINATE METERING AND CURRENT TRANSFORMER REQUIREMENTS, INCLUDING SPECIFICATIONS (RINGS, JAWS, BY-PASS, ETC) AND FINAL LOCATIONS.
- PROVIDE (2EA)-4 INCH CONDUIT (OR AS REQUIRED BY UTILITY) FOR DATA/PHONE SERVICE ENTRANCE INTO THE BUILDING IN LOCATION SHOWN ON PLANS OR IN LOCATION COORDINATED WITH OWNER.
- MODULAR METER SECTIONS SHALL BE: SQUARE D EZ-METER-PAK OR APPROVED EQUAL BY SIEMENS, EATON, GENERAL ELECTRIC. VERIFY UTILITY HEIGHT REQUIREMENTS OF METERS PRIOR TO ORDERING EQUIPMENT.
- ALL MAIN CIRCUIT BREAKERS FOR SERVICE SHALL BE RATED FOR AVAILABLE FAULT CURRENT AND BE RATED AT 100% OF ITS CURRENT RATING.
- ALL CIRCUIT BREAKERS RATED 1200 AMPS OR MORE SHALL HAVE AN ENERGY REDUCTION METHOD COMPLIANT WITH NEC 240.87.
- ALL MAIN CIRCUIT BREAKERS FOR SERVICES ABOVE 150V TO GROUND AND RATED 1000A OR MORE SHALL HAVE GROUND FAULT PROTECTION PER NEC 210.13.
- SURGE PROTECTIVE DEVICES ARE TO BE INSTALLED IN ALL SERVICE ENTRY DISTRIBUTION EQUIPMENT. SURGE PROTECTION SHALL BE 20KA FOR SERVICE EQUIPMENT.

**III. EXECUTION**

**A. GENERAL MISCELLANEOUS**

- ALL CONDUIT RUN IN FINISHED AREAS SHALL BE CONCEALED. CONDUIT SMALLER THAN 3/4" SHALL NOT BE USED FOR ANY CIRCUIT HOMERUNS.
  - RACEWAYS EXPOSED TO DIFFERENT TEMPERATURES SHALL BE FILLED WITH AN APPROVED MATERIAL. IN ACCORDANCE WITH ARTICLE 300.7 OF THE NATIONAL ELECTRICAL CODE.
  - HANGERS, SUPPORTS, OR FASTENINGS SHALL BE PROVIDED AT EACH ELBOW, AT THE ENDS OF STRAIGHT RUNS TERMINATING AT BOXES OR CABINETS, AND AT INTERMEDIATE POINTS AS REQUIRED BY CODE. CONDUITS OR BOXES SHALL NOT BE SUPPORTED BY CEILING SUPPORT WIRES OR OTHER CEILING SUPPORTING HARDWARE.
  - FIXTURE SUPPORTS SHALL BE IN ACCORDANCE WITH ARTICLE 410-30 OF THE NATIONAL ELECTRICAL CODE, OR ANY LOCAL CODES WHICH MY APPLY.
  - PROVIDE PERMANENT NAMEPLATES WITH DESIGNATIONS FOR PANELBOARDS, FEEDER DEVICES, DISTRIBUTION EQUIPMENT AND STARTERS. NAMEPLATES TO BE ENGRAVED, CONTRASTING COLOR, LAMINATED PLASTIC INDICATING THE NAME OF THE EQUIPMENT, LOAD, OR CIRCUIT AS SHOWN ON THE DRAWINGS. IT SHALL BE ADHERED WITH FIELD-APPLIED EPOXY ADHESIVE, COMPATIBLE WITH THE EQUIPMENT FINISH.
  - PROVIDE TYPEWRITTEN DIRECTORY CARDS WITH BRANCH CIRCUIT IDENTIFICATION FOR BRANCH CIRCUIT PANELBOARDS, PANELBOARDS, FEEDER DEVICES, DISTRIBUTION EQUIPMENT AND STARTERS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS IN ACCORDANCE WITH NEC 110.16.
  - INSTALL HANDLE GUARDS ON ALL BREAKERS FOR NIGHT LIGHTING, EMERGENCY AND SIMILAR CIRCUITS.
  - THE ELECTRICAL CONTRACTOR SHALL BALANCE PANELBOARD LOADING TO WITHIN 10% ON EACH PHASE BASED ON INSTALLED CONDITIONS. LOAD BALANCING CIRCUIT CHANGES SHALL BE PERFORMED OUTSIDE THE NORMAL OCCUPANCY WORKING SCHEDULE AND AT A TIME DIRECTED BY LANDLORD.
  - ALL FLUSH MOUNTED PANELBOARDS SHALL HAVE (3) 3/4" EMPTY CONDUITS INSTALLED TO ABOVE ACCESSIBLE CEILING FOR FUTURE USE.
  - THE FINAL LOCATIONS OF ALL EQUIPMENT, OUTLETS, ETC. SHALL BE SUBJECT TO REASONABLE CHANGES IN LOCATION UP TO THE TIME OF ROUGH-IN. AT NO ADDITIONAL COST TO THE OWNER.
  - CONTACT ELECTRIC POWER COMPANY AND MAKE NECESSARY ARRANGEMENTS FOR ELECTRIC SERVICE.
  - CONTACT TELEPHONE COMPANY AND MAKE NECESSARY ARRANGEMENTS FOR TELEPHONE SERVICE.
  - AT ALL TIMES KEEP PREMISES AND BUILDING IN A NEAT AND ORDERLY CONDITION, FOLLOWING OWNER'S INSTRUCTION IN REGARD TO STORING OF MATERIALS, PROTECTIVE MEASURES AND DISPOSING OF DEBRIS.
  - RACEWAYS BELOW DRIVEWAYS, PARKING LOTS, AND ANY RACEWAYS INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC AND INSTALLED A MINIMUM OF 24" BELOW FINISHED GRADE PER NEC 300.5.
  - A CONCRETE BASE SHALL BE PROVIDED FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT AND WHERE SPECIFIED IN DRAWINGS. THE BASE SHALL HAVE CHAMFERED EDGES AND IT SHALL BE A MINIMUM OF 2 INCHES GREATER THAN THE FOOTPRINT OF THE EQUIPMENT THAT IT IS SUPPORTING. THE HEIGHT OF THE BASE SHALL BE A MINIMUM OF 4 INCHES.
  - PRIOR TO START-UP, ALL SCREWS, BOLTS, TERMINATIONS, CONNECTIONS, ETC SHALL BE CHECK FOR PROPER TIGHTNESS AND ANY MOVING PARTS ARE TO BE LUBRICATED PROPERLY. ALL EQUIPMENT SHALL BE TESTED FOR PROPER OPERATION. ADJUSTMENTS AND ALIGNMENTS SHALL BE MADE AS NECESSARY.
- B. GROUNDING**
- GROUND ALL CONDUITS, CABINETS, MOTORS, PANELS, AND OTHER EXPOSED NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 250.
  - BOND METAL WATER PIPING AND OTHER METAL PIPING (INCLUDING GAS PIPING) AND EXPOSED STRUCTURAL METAL IN ACCORDANCE WITH NEC ARTICLE 250.
  - GROUNDING OF THE ELECTRICAL SYSTEM SHALL BE BY MEANS OF AN INSULATED GROUNDING CONDUCTOR INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUIT CONDUCTORS IN ALL CONDUITS.
  - CONNECTIONS/TERMINATIONS FOR GROUNDING SHALL BE IN ACCORDANCE WITH NEC.

| ELECTRICAL SYMBOLS LEGEND                  |   |
|--|---|
| (SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS) |   |
| SYMBOL                                     | DESCRIPTION   |
|  | RECESSED CAN LIGHT FIXTURE  |
|  | FLUORESCENT OR LED FIXTURE  |
|  | TRACK LIGHTING  |
|  | EXIT FIXTURE (WALL MOUNTED/CEILING MOUNTED)   |
|  | SWITCH, SINGLE POLE   |
|  | SWITCH, 3-WAY   |
|  | SWITCH, DIMMER, TO BE COMPATIBLE WITH LIGHT TYPE AND LOAD   |
|  | SINGLE POLE TIMER SWITCH (PARAGON MODEL #ET1100F)   |
|  | 3-WAY TIMER SWITCH (PARAGON MODEL #ET1100F/3-WAY)   |
|  | SWITCH, MANUAL MOTOR  |
|  | SWITCH, OCCUPANCY SENSOR, WALL MOUNT  |
|  | SWITCH, OCCUPANCY SENSOR AND DIMMER COMBO, WALL MOUNT   |
|  | RECEPTACLE, DUPLEX  |
|  | RECEPTACLE, DUPLEX, ISOLATED GROUND   |
|  | RECEPTACLE, DUPLEX, GFI   |
|  | OCCUPANCY SENSOR, CEILING MOUNT   |
|  | POWER PACK FOR LIGHTING CONTROLS  |
|  | RECEPTACLE, DUPLEX, CEILING MOUNTED (FIELD VERIFY EXACT LOCATION) INSTALL FLUSH IN CEILING IN AREAS WITH FINISHED CEILINGS  |
|  | RECEPTACLE, DUPLEX FLUSH FLOOR  |
|  | RECEPTACLE, DUPLEX ISOLATED GROUND FLUSH FLOOR  |
|  | RECEPTACLE, SPECIAL FLUSH FLOOR   |
|  | RECEPTACLE, DOUBLE DUPLEX   |
|  | RECEPTACLE, SIMPLEX TWIST LOCK, L5-15R, UNO   |
|  | RECEPTACLE, DUPLEX TWIST LOCK, L5-15R, UNO  |
|  | RECEPTACLE, SPECIAL   |
|  | RECEPTACLE, SIMPLEX   |
|  | DATA OUTLET, CAT 6 OR PER SPECS   |
|  | TELEPHONE OUTLET  |
|  | TELEVISION OUTLET, CONFIRM CABLE TYPE PRIOR TO INSTALLATION   |
|  | DATA OUTLET & PHONE OUTLET, CAT 6 OR PER SPECS  |
|  | JUNCTION BOX  |
|  | JUNCTION BOX (FLUSH FLOOR MOUNTED)  |
|  | GENERIC JUNCTION BOX OR PULL BOX AS APPLICABLE. SEE DRAWINGS FOR MORE SPECIFIC APPLICATION INFORMATION  |
|  | EQUIPMENT CONNECTION POINT (PROVIDED WITH EQUIPMENT)  |
|  | NON-FUSED DISCONNECT SWITCH   |
|  | FUSED DISCONNECT SWITCH   |
|  | HOME-RUN (WITH CIRCUIT NUMBER(S) WHERE APPLICABLE) CIRCUIT NUMBERS ARE ALSO SHOWN WITHOUT HOMERUN   |
|  | CIRCUIT, CONCEALED IN SLAB FLOOR  |
|  | CABLING/RACEWAY - CEILING OR WALL - SEE SPECS. FOR APPL CONDUIT/RACEWAY REQTS. (FULLY CONCEALED IN FINISHED AREAS, CONCEALED TO OVERHEAD STRUCTURE IN UNFIN. AREAS) |
|  | CONDUIT SLEEVE  |
|  | FLUSH MOUNTED PANELBOARD  |
|  | SURFACE MOUNTED PANELBOARD  |
|  | MOTOR   |
|  | TELEPOWER POLE (TUBE-STEEL CHASE FURNISHED BY OWNER, INSTALLED BY E.C.) SEE POWER PLANS FOR FURTHER INFORMATION   |
|  | PUSH BUTTON   |
|  | BUZZER  |
|  | INDICATES GROUNDING BY E.C. PER N.E.C. ARTICLE 250 MINIMUM  |
|  | TV BOX: PROVIDE POWER, CAT 6 AND COAX RECEPTACLES IN RECESSED 3-GANG BOX.   |

| ABBREVIATIONS |                                  |
|---------------|----------------------------------|
| AC            | ABOVE COUNTER                    |
| AFF           | ABOVE FINISHED FLOOR             |
| AFG           | ABOVE FINISHED GRADE             |
| AHJ           | AUTHORITY HAVING JURISDICTION    |
| AHU           | AIR HANDLING UNIT                |
| AL            | ALUMINUM                         |
| BAS           | BUILDING AUTOMATION SYSTEM       |
| BFF           | BELOW FINISHED FLOOR             |
| CU            | COPPER                           |
| DDC           | DIRECT DIGITAL CONTROL           |
| EC            | ELECTRICAL CONTRACTOR            |
| EF            | EXHAUST FAN                      |
| EM            | EMERGENCY LIGHTING               |
| ETR           | EXISTING TO REMAIN               |
| EWC           | ELECTRIC WATER COOLER            |
| GC            | GENERAL CONTRACTOR               |
| GFCI/GFI      | GROUND FAULT CIRCUIT INTERRUPTER |
| GR            | GROUND                           |
| IG            | ISOLATED GROUND                  |
| HD            | HAND DRYER                       |
| LTG           | LIGHTING                         |
| MAX           | MAXIMUM                          |
| MC            | MECHANICAL CONTRACTOR            |
| MCB           | MAIN CIRCUIT BREAKER             |
| MFR           | MANUFACTURER                     |
| MIN           | MINIMUM                          |
| MLO           | MAIN LUG ONLY                    |
| NL            | NIGHT LIGHT                      |
| PC            | PLUMBING CONTRACTOR              |
| PB            | PANELBOARD                       |
| RC            | REFRIGERATION CONTRACTOR         |
| RCPTS         | RECEPTACLES                      |
| REF           | REFERENCE                        |
| RH            | RADIANT HEATER                   |
| RTU           | ROOF TOP UNIT                    |
| SC            | SECURITY CAMERA                  |
| TYP           | TYPICAL                          |
| UH            | UNIT HEATER                      |
| UNO           | UNLESS NOTED OTHERWISE           |
| WH            | WATER HEATER                     |
| WP            | WEATHER PROOF COVERPLATE         |
| WR            | WEATHER RESISTANT RECEPTACLE     |
| XFMR          | TRANSFORMER                      |

| FIRE ALARM SYMBOLS LEGEND                  |  |
|--|--|
| (SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS) |  |
| SYMBOL                                     | DESCRIPTION  |
|  | FIRE ALARM MANUAL STATION. PROVIDE PROTECTION DEVICE.  |
|  | ADA COMPLIANT FIRE ALARM SPEAKER WITH STROBE LIGHT, UNLESS NOTED OTHERWISE.  |
|  | CEILING MOUNTED SMOKE DETECTOR   |
|  | CEILING MOUNTED SMOKE DETECTOR/CARBON MONOXIDE COMBINATION UNIT  |
|  | DUCT MOUNTED SMOKE DETECTOR. FURNISHED AND CONNECTED BY ELECTRICAL CONTRACTOR. INSTALLED BY MECHANICAL CONTRACTOR. CUTTING OF DUCT, INSTALLATION OF DETECTOR, AND DETERMINATION OF SAMPLING TUBE LENGTH SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY. PROVIDE REMOTE INDICATING LIGHT WITH EACH DETECTOR. |
|  | CEILING MOUNTED HEAT DETECTOR  |
|  | SPRINKLER SYSTEM FLOW SWITCH   |
|  | SPRINKLER SYSTEM TAMPER SWITCH   |
|  | SMOKE DAMPER. FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.   |
|  | MAGNETIC DOOR HOLDER. PROVIDED BY GENERAL CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE A SMOKE DETECTOR WITHIN 5 FT OF BOTH SIDES OF DOORS TO LOCALLY ACTIVATE DOOR UPON SMOKE SIGNAL.  |
|  | FIRE ALARM REMOTE GRAPHIC ANNUNCIATOR  |
|  | FIRE ALARM CONTROL PANEL WITH LOCAL SMOKE DETECTOR.  |
|  | CARBON MONOXIDE DETECTOR   |
|  | ADA COMPLIANT FIRE ALARM STROBE LIGHT, UNLESS NOTED OTHERWISE.   |

| GENERAL POWER/LIGHTING NOTES |   |
|------------------------------|---|
| A                            | PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS:<br>A. FIRE RATED WALLS: SEAL PER SPECIFICATIONS FOR FIRE STOPPING.<br>B. NEUTRALIZATION AREA: SEAL PER MECHANICAL DETAILS.<br>C. EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL EXTERIOR MOUNTED DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY PENETRATIONS. |
| B                            | PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZE PER NEC) IN ALL CONDUIT AND RACEWAYS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.  |
| C                            | WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY:<br>A. SWITCHES +48"<br>B. RECEPTACLES +18"<br>C. VOICE/DATA +18" OR AS NOTED ON PLANS   |
| D                            | WIRING SHALL INCLUDE FINAL CONNECTION TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.  |
| E                            | CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PANELBOARD IDENTIFICATIONS SCHEDULES.  |
| F                            | BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE IN SCHEDULES. WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE SHALL BE USED FOR FINAL CONNECTION (15-FT MAXIMUM).   |
| G                            | WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUIT AND DERATE CURRENT CARRYING CONDUCTORS PER NEC.   |
| H                            | PROVIDE HANDLE TIES ON ALL MULTIWIRE BRANCH CIRCUITS TO MEET NEC REQUIREMENTS.  |
| I                            | ALL EMERGENCY AND EXIT SIGN CIRCUITRY SHALL BE UNSWITCHED.  |
| J                            | PROVIDE 4"x4", 3/4" FIRE RATED PLYWOOD BACKBOARD WHERE SHOWN ON PLANS OR AS REQUIRED FOR DATA/PHONE, CATV, OR ALARMS. COORDINATE FINAL LOCATION WITH THE RESPECTIVE CONTRACTOR.   |
| K                            | PROVIDE SURGE PROTECTIVE DEVICE FOR ANY OWNER PROVIDED EQUIPMENT, SUCH AS ACCESS CONTROL SYSTEMS, COMMUNICATIONS SYSTEMS, DATA SYSTEMS, AND SECURITY SYSTEMS.   |
| L                            | GROUP SWITCHES ADJACENT TO EACH OTHER IN MULTI-GANG BOX. MOUNT SWITCHES AT SAME HEIGHT AS EACH OTHER AND OTHER DEVICES NEARBY FOR A CLEAN LOOK.   |
| M                            | DIMMER SWITCHES SHALL BE COMPATIBLE WITH LOAD IT'S SERVING. 0-10V LIGHT FIXTURES SHALL BE DIMMED WITH 0-10V DIMMER WITH CONTROL WIRING.   |
| N                            | ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT FOR ANY MECHANICAL CONTROL CABLING BETWEEN UNITS, CONTROLLERS, THERMOSTATS, ETC. COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR.  |
| O                            | LOW VOLTAGE CABLING IN WALLS OR WHEN EXPOSED SHALL ALWAYS BE ROUTED IN CONDUIT. HORIZONTAL CABLING THAT IS CONCEALED SHALL BE PER OWNER, AHJ, OR ENGINEER REQUIREMENTS.   |



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Clayton P. Burdette  
11-05-2025

General Contractor:



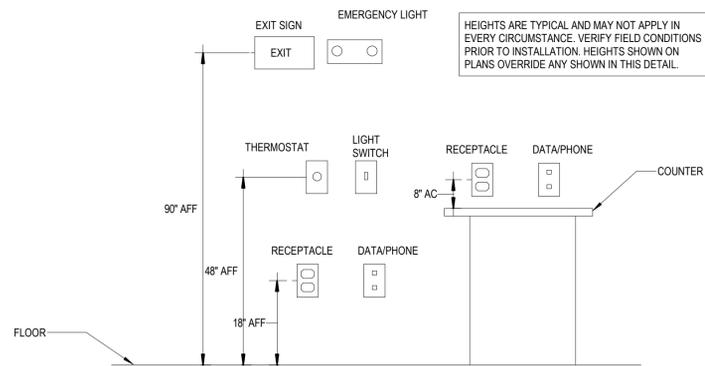
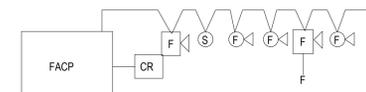
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Sheet Contents:



- NOTES:
- ZONE PER NFPA 72 AND MANUFACTURER'S RECOMMENDATIONS WITH NO SINGLE ZONE EXCEEDING 15,000 SQUARE FEET PER FLOOR.
  - FIRE ALARM ENGINEER TO PROVIDE DEFERRED SUBMITTAL CONTAINING EXACT QUANTITY AND DEVICE LOCATIONS. FIRE ALARM DEVICES ON THIS SET OF PLANS IS FOR REFERENCE ONLY.
  - PROVIDE MULTI-TEMPORAL SOUNDING CAPABILITY AT ALL AUDIO DEVICES FOR EMERGENCY NOTIFICATION.
  - THE FIRE ALARM SYSTEM MANUFACTURER SHALL PROVIDE NOTIFICATION APPLIANCE CIRCUIT (NAC) POWER EXTENDERS AS REQUIRED.
  - ALL STROBES WITHIN THE SAME AREA SHALL BE SYNCHRONIZED.
  - FOR ALL DEVICES, PROVIDE 3/4" CONDUIT BACK TO FACP. NO PLENUM RATED CABLE SHALL BE ALLOWED UNLESS ALLOWED BY FIRE MARSHAL.
  - FIRE ALARM INSTALLER SHALL BE NICET CERTIFIED.

2 TYPICAL MOUNTING HEIGHTS  
NTS

1 EXISTING FIRE ALARM RISER  
NTS

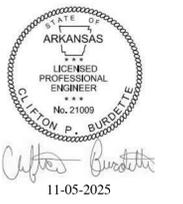
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# **KEYNOTES:**  
 1 REFER TO RISER DIAGRAM FOR MORE INFORMATION REGARDING NEW EQUIPMENT. COORDINATE WITH OWNER TO DETERMINE EXACT LOCATION.



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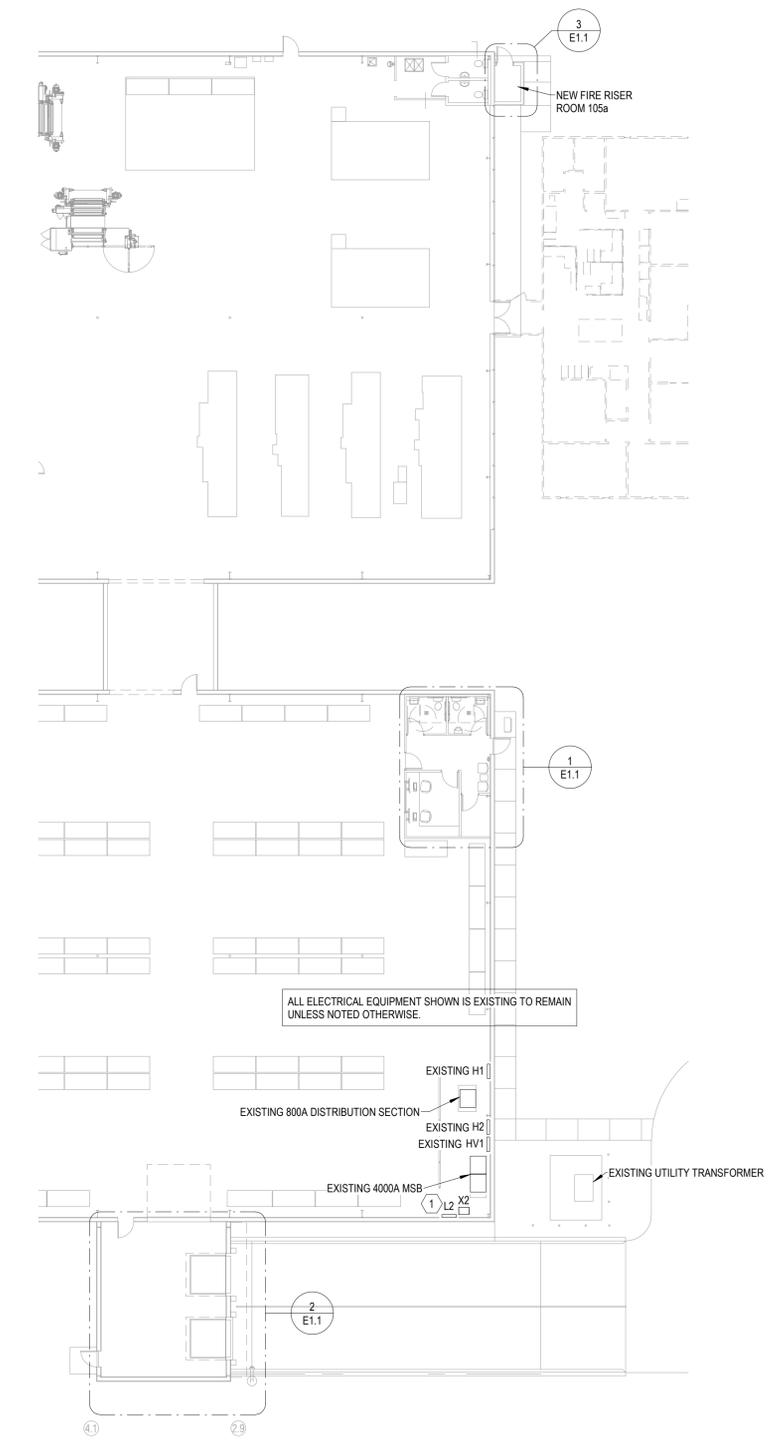
General Contractor:

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Sheet Contents:

Drawing Name: **OVERALL ELECTRICAL PLAN**  
 Date: 11-05-2025  
 Revisions:  
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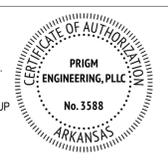


**1 OVERALL ELECTRICAL PLAN**  
 1/16" = 1'-0"

**E1.0**

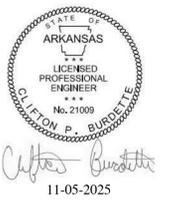
| DISCONNECT SCHEDULE |                   |       |         |           |               |
|---------------------|-------------------|-------|---------|-----------|---------------|
| TAG                 | DESCRIPTION       | POLES | VOLTAGE | NEMA TYPE | PANEL-CIRCUIT |
| AC-1                | 30A               | 2     | 208 V   | NEMA 1    | L2-11,13      |
| EUH-1               | FACTORY INSTALLED | 2     | 480 V   | --        | -- ▶          |
| EWH-1               | 30A               | 1     | 277 V   | NEMA 1    | --            |
| GP                  | 30A               | 2     | 208 V   | NEMA 3R   | L2-18,20      |
| HP-1                | 30A               | 2     | 208 V   | NEMA 3R   | L2-8,10       |
| WH                  | 30A               | 1     | 120 V   | NEMA 1    | L2-6          |

- # KEYNOTES:
- 1 PROVIDE POWER TO MOTORIZED ROLL-UP DOOR. COORDINATE FINAL LOCATION OF POWER TERMINATION WITH MANUFACTURER. INSTALL CONTROL WIRING AND PUSHBUTTON FOR ROLL-UP DOOR. CONTROL WIRING TO BE IN CONDUIT.
  - 2 DOCK LEVELER. CONFIRM EXACT LOCATION AND CONFIRM ELECTRICAL REQUIREMENTS WITH MANUFACTURER DRAWINGS.
  - 3 COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE POWER TO DAMPER.
  - 4 CIRCUIT AND CONTROL EXHAUST FAN WITH ROOM LIGHTS.
  - 5 COORDINATE WITH PLUMBING CONTRACTOR TO PROVIDE POWER TO URINAL.
  - 6 WATER HEATER LOCATED ABOVE CEILING.
  - 7 CIRCUIT TO NEAREST 480V PANEL WITH SPARE CAPACITY (10kW). PROVIDE 2 POLE 30A CIRCUIT BREAKER AND #10 CONDUCTORS IN A 3/4" CONDUIT.
  - 8 RECEPTACLE FOR DOCK LIGHT. VERIFY EXACT LOCATION WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
  - 9 CONNECTION TO STOPIGO LIGHT. MAKE CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS. VERIFY EXACT LOCATION WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
  - 10 PROVIDE POWER FROM NEAREST 277/480V PANEL WITH AT LEAST 3kW SPARE CAPACITY. PROVIDE A 20A SINGLE POLE CIRCUIT BREAKER AND #12 CONDUCTORS IN A 3/4" CONDUIT.
  - 11 PROVIDE POWER FROM NEAREST EXISTING RECEPTACLE CIRCUIT WITH 180W SPARE CAPACITY.



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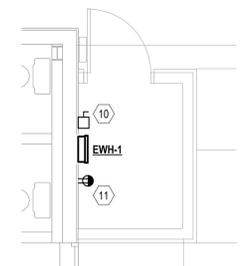
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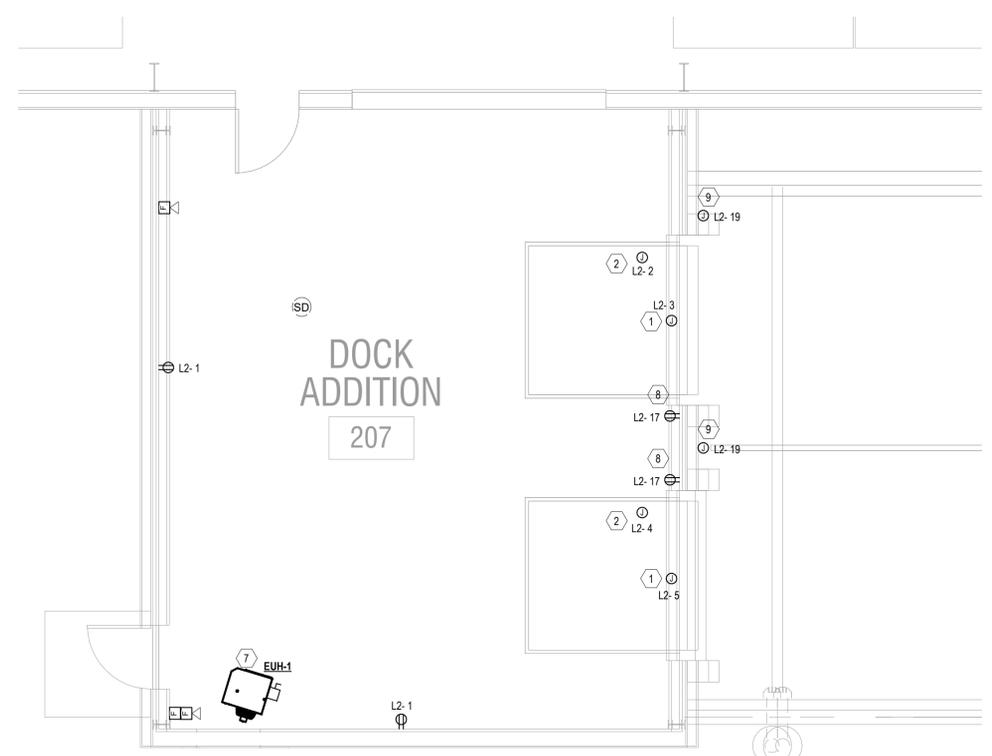
Sheet Contents:

Drawing Name: ENLARGED POWER PLANS  
 Date: 11-05-2025  
 Revisions:  
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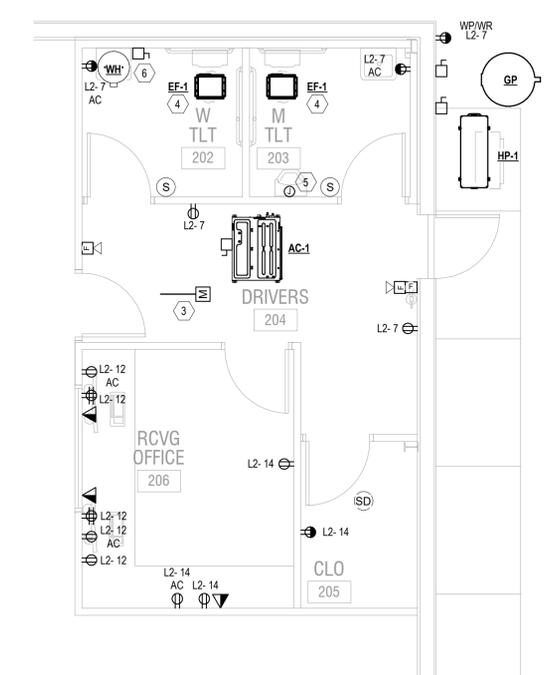


**3 FIRE RISER POWER PLAN**  
 1/4" = 1'-0"

FIRE ALARM DEVICES ARE SHOWN FOR REFERENCE ONLY. THE FINAL FIRE ALARM DESIGN AND PERMITTING SHALL BE DONE BY FIRE ALARM CONTRACTOR.



**2 LOADING DOCK POWER PLAN**  
 1/4" = 1'-0"



**1 RECEIVING POWER PLAN**  
 1/4" = 1'-0"

**E1.1**

| LIGHTING FIXTURE SCHEDULE |   |                   |   |        |          |                   |                   |            |                   |
|---------------------------|---|-------------------|---|--------|----------|-------------------|-------------------|------------|-------------------|
| FIXTURE TYPE              | DESCRIPTION                               | MANUFACTURER      | MODEL                                     | LOAD   | VOLTAGE  | COLOR TEMPERATURE | LAMP TYPE         | LUMENS     | MOUNTING TYPE     |
| A1                        | WRAPAROUND                                | LITHONIA          | SBL4W 6500LM 80CRI 40K MIN1 GZT MVOLT     | 53 VA  | 120/277V | 4000K             | LED 0-10V DIMMING | 6500       | SURFACE           |
| C1                        | CANOPY LIGHT                              | LITHONIA          | CNY LED ALO SWW2 UVOLT PE PIR FINISH M2   | 75 VA  | 120/277V | SWITCHABLE        | LED 0-10V DIMMING | SWITCHABLE | SURFACE           |
| EM1                       | LED EMERGENCY LIGHT, DAMP LOCATION LISTED | EELP              | EM25-LED-BLK                              | 2 VA   | 120/277V | --                | LED               | --         | CEILING/WALL      |
| EM2                       | LED EMERGENCY LIGHT, WET LOCATION LISTED  | EELP              | OEM3-10W                                  | 2 VA   | 120/277V | --                | LED               | --         | CEILING/WALL      |
| S1                        | 4' STRIP LIGHT                            | ARCHIPELAGO       | LLSN4-3550CS/R/L/MAC                      | 50 VA  | 120/277V | 3500K             | LED 0-10V DIMMING | 6250       | SUSPENDED/SURFACE |
| W1                        | AREA LIGHT                                | LITHONIA          | EAX1 ALO SWW2 SO UVOLT UM BL / WALL MOUNT | 106 VA | 120/277V | 4000K             | LED               | 16000      | WALL              |
| X1                        | EXIT SIGN                                 | LITHONIA LIGHTING | LQM S W RG MVOLT M6                       | 2 VA   | 120/277V | --                | LED               | --         | STEM/SURFACE      |

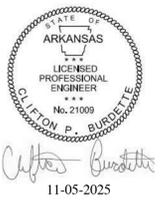
ALL LIGHT FIXTURES ARE BASIS OF DESIGN. APPROVAL FROM OWNER REQUIRED PRIOR TO PURCHASING ANY LIGHT FIXTURE. IF ALTERNATE LIGHT FIXTURES ARE CHOSEN, THEY SHALL BE APPROVED BY ENGINEER AS WELL AS OWNER TO BE CONFIRMED AS AN ACCEPTABLE EQUAL. DISTANCES BETWEEN EMERGENCY LIGHTS MAY NEED TO BE REVISED IF DIFFERENT FIXTURE IS SELECTED THAN SHOWN. FOLLOW MANUFACTURER SPACING RECOMMENDATIONS FOR EMERGENCY FIXTURES. FINAL FINISH SELECTIONS TO BE APPROVED BY ARCHITECT.

- # **KEYNOTES:**
- 1 CIRCUIT AND CONTROL THROUGH NEAREST EXTERIOR LIGHTING CIRCUIT WITH AVAILABLE CAPACITY.
  - 2 CIRCUIT TO NEAREST INTERIOR LIGHTING CIRCUIT WITH AVAILABLE CAPACITY.
  - 3 CIRCUIT TO NEAREST ROOM LIGHTING CIRCUIT.



**PRIGM ENGINEERING**  
 310 W. DICKSON ST., SUITE 210  
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**Dan Townsley ARCHITECT**  
 921 S Oak Hill Ste. 1  
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 dan@dt-architect.com



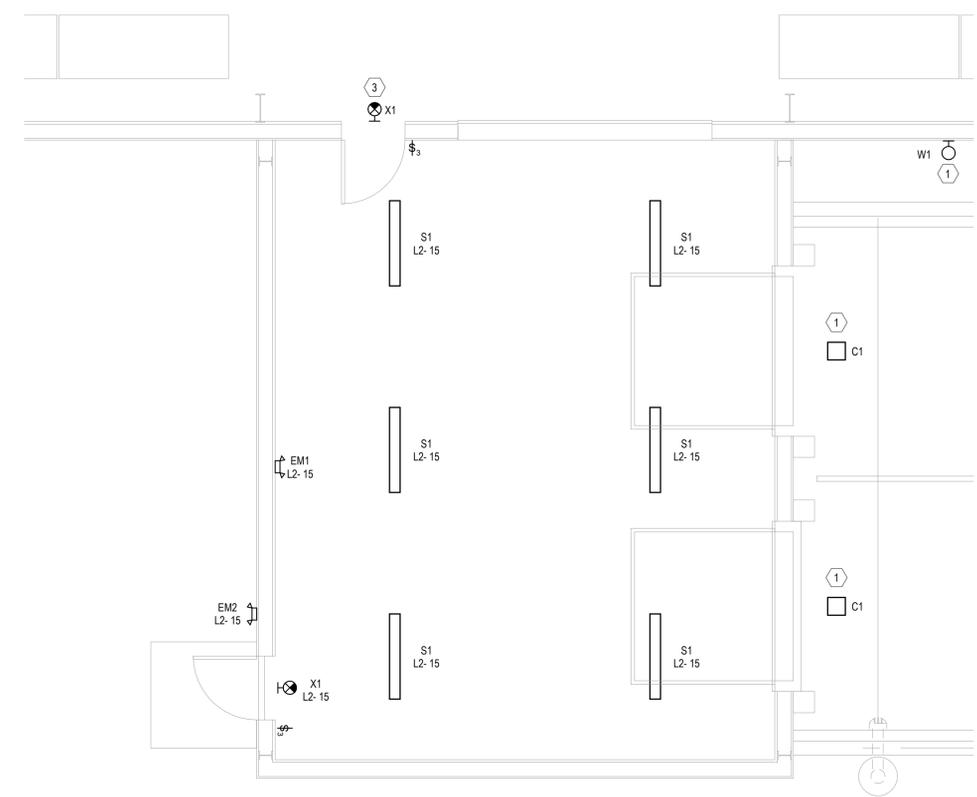
General Contractor:

**NABHOLZ**  
 Construction Services  
 3301 N 2nd Street  
 Rogers, Arkansas 72757  
 479.659.7800

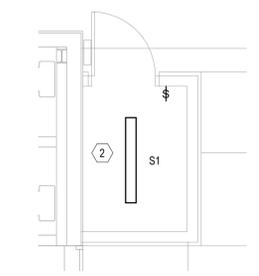
**Dock Addition Recvg Office**  
  
**PACKAGING SPECIALTIES, INC.**  
 Celebrating 50 years Est. 1974  
 1755 & 1767  
 S Armstrong Ave  
 Fayetteville, Arkansas

Sheet Contents:

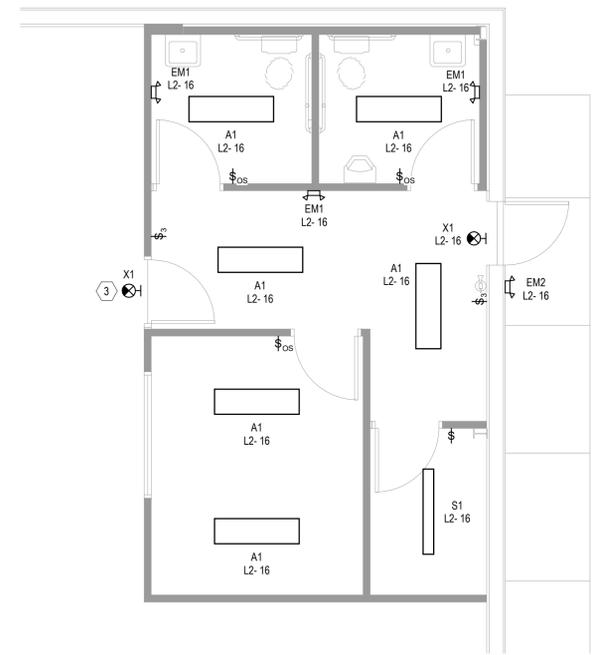
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| Date:         | 11-05-2025              |
| Revisions:    |                         |
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**2 DOCK LIGHTING PLAN**  
 1/4" = 1'-0"



**3 FIRE RISER LIGHTING PLAN**  
 1/4" = 1'-0"

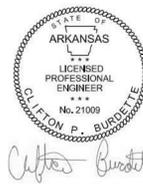


**1 RECEIVING LIGHTING PLAN**  
 1/4" = 1'-0"

**E2.0**



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Clayton P. Burdette  
 11-05-2025

General Contractor:

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**Dock Addition**  
 Recvg Office



1755 & 1767  
 S Armstrong Ave  
 Fayetteville, Arkansas

Sheet Contents:

Drawing Name: ONE-LINE DIAGRAM & PANEL SCHEDULE  
 Date: 11-05-2025  
 Revisions:

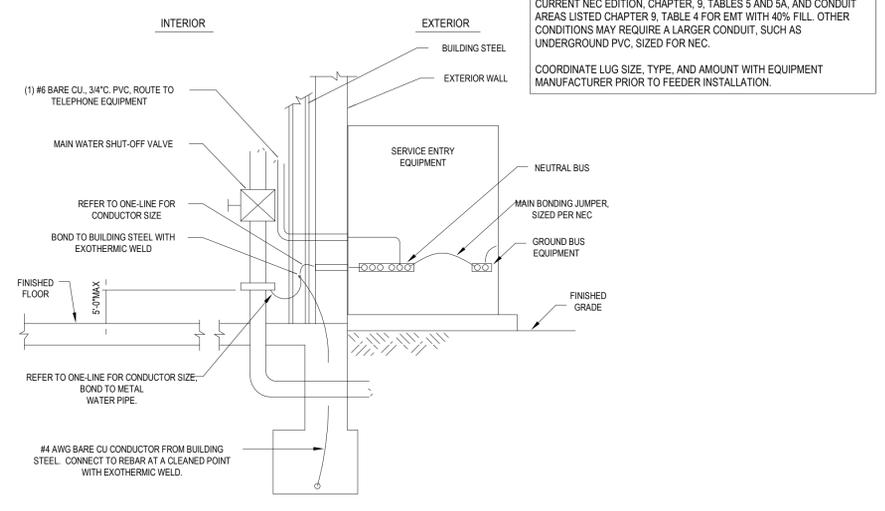
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**E3.0**

| PANELBOARD: L2   |                     |               |               |                                      |   |         |         |      |       | NEW  |                     |              |                  |    |  |  |  |  |  |
|--|---------------------|---------------|---------------|--------------------------------------|---|---------|---------|------|-------|--|---------------------|--------------|------------------|----|--|--|--|--|--|
| LOCATION: SUPPLY FROM: MOUNTING: SURFACE ENCLOSURE: NEMA 1 |                     |               |               |                                      | VOLTS: 208/120V-3PH,4W PHASES: 3 WIRES: 4 |         |         |      |       | A.I.C. RATING: Fully (F) MAINS TYPE: M.C.B. MAINS RATING: 100 A REQUIREMENTS: GROUND BAR |                     |              |                  |    |  |  |  |  |  |
| <b>NOTES:</b>  |                     |               |               |                                      |   |         |         |      |       |  |                     |              |                  |    |  |  |  |  |  |
| CKT  | Circuit Description | Trip          | Poles         | Wire                                 | A (kVA)                                   | B (kVA) | C (kVA) | Wire | Poles | Trip   | Circuit Description | CKT          |                  |    |  |  |  |  |  |
| 1  | RECEPTS 207         | 20            | 1             | #12                                  | 0.36                                      | 1.00    |         | #12  | 1     | 15   | DOCK LEVELER (2)    | 2            |                  |    |  |  |  |  |  |
| 3  | OVERHEAD DOOR (2)   | 20            | 1             | #12                                  |   | 1.00    | 1.00    | #12  | 1     | 15   | DOCK LEVELER (2)    | 4            |                  |    |  |  |  |  |  |
| 5  | OVERHEAD DOOR (2)   | 20            | 1             | #12                                  |   |         | 1.00    | 2.00 | #10   | 1  | 25                  | WATER HEATER | 6                |    |  |  |  |  |  |
| 7  | RECEPTS             | 20            | 1             | #12                                  | 0.90                                      | 1.66    |         |      | #10   | 2  | 25                  | HP-1         | 8                |    |  |  |  |  |  |
| 9  | URINAL (2)          | 20            | 1             | #12                                  |   | 0.50    | 1.66    |      |       |  |                     | 10           |                  |    |  |  |  |  |  |
| 11   | AC-1                | 15            | 2             | #12                                  |   |         |         | 0.18 | 0.90  | #12  | 1                   | 20           | RECEPTS OFFICE   | 12 |  |  |  |  |  |
| 13   |                     | --            | --            | --                                   | 0.18                                      | 0.72    |         |      |       | #12  | 1                   | 20           | RECEPTS OFFICE   | 14 |  |  |  |  |  |
| 15   | LIGHTS DOCK         | 20            | 1             | #12                                  |   | 0.31    | 0.38    |      |       | #12  | 1                   | 20           | LIGHTS OFFICE    | 16 |  |  |  |  |  |
| 17   | DOCK LIGHTS         | 20            | 1             | #12                                  |   |         |         | 0.36 | 1.56  | #10  | 2                   | 20           | GRINDER PUMP (6) | 18 |  |  |  |  |  |
| 19   | STOP/GO LIGHTS      | 20            | 1             | #12                                  | 1.00                                      | 1.56    |         |      |       | --   | --                  | --           | 20               |    |  |  |  |  |  |
| 21   | SPARE               | 20            | 1             | --                                   |   | 0.00    | --      |      |       | --   | 1                   | --           | SPACE            | 22 |  |  |  |  |  |
| 23   | SPARE               | 20            | 1             | --                                   |   |         |         | 0.00 | --    | --   | 1                   | --           | SPACE            | 24 |  |  |  |  |  |
| 25   | SPARE               | 20            | 1             | --                                   | 0.00                                      | --      |         |      |       | --   | 1                   | --           | SPACE            | 26 |  |  |  |  |  |
| 27   | SPARE               | 20            | 1             | --                                   |   | 0.00    | --      |      |       | --   | 1                   | --           | SPACE            | 28 |  |  |  |  |  |
| 29   | SPARE               | 20            | 1             | --                                   |   |         |         | 0.00 | --    | --   | 1                   | --           | SPACE            | 30 |  |  |  |  |  |
| <b>Total Load:</b>   |                     |               |               |                                      | 7381 VA                                   | 4847 VA | 5997 VA |      |       |  |                     |              |                  |    |  |  |  |  |  |
| <b>Total Amps:</b>   |                     |               |               |                                      | 63 A                                      | 40 A    | 51 A    |      |       |  |                     |              |                  |    |  |  |  |  |  |
| Load Classification  | Connected Load      | Demand Factor | Demanded Load | Panel Totals                         |   |         |         |      |       |  |                     |              |                  |    |  |  |  |  |  |
| CONTINUOUS   | 2000 VA             | 125.00%       | 2500 VA       |                                      |   |         |         |      |       |  |                     |              |                  |    |  |  |  |  |  |
| HVAC   | 3682 VA             | 100.00%       | 3682 VA       | <b>Total Conn. Load:</b> 18225 VA    |   |         |         |      |       |  |                     |              |                  |    |  |  |  |  |  |
| LIGHTS   | 683 VA              | 125.00%       | 854 VA        | <b>Total Feeder Load:</b> 19145 VA   |   |         |         |      |       |  |                     |              |                  |    |  |  |  |  |  |
| MOTORS   | 4000 VA             | 106.25%       | 4250 VA       | <b>Total Connected Current:</b> 51 A |   |         |         |      |       |  |                     |              |                  |    |  |  |  |  |  |
| NON-CONTINUOUS   | 3620 VA             | 100.00%       | 3620 VA       | <b>Total Feeder Current:</b> 53 A    |   |         |         |      |       |  |                     |              |                  |    |  |  |  |  |  |
| Other  | 1000 VA             | 100.00%       | 1000 VA       |                                      |   |         |         |      |       |  |                     |              |                  |    |  |  |  |  |  |
| RECEPTS  | 3240 VA             | 100.00%       | 3240 VA       |                                      |   |         |         |      |       |  |                     |              |                  |    |  |  |  |  |  |

| PANELBOARD NOTES (#)                          |  |
|---|--|
| NOTE IS IN CIRCUIT DESCRIPTION IN PARENTHESIS |  |
| 1.  | TERMINATE GROUND ON ISOLATED GROUND BUS.   |
| 2.  | INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE).   |
| 3.  | INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).  |
| 4.  | GFI BREAKER FOR PERSONNEL PROTECTION (5 mA).   |
| 5.  | GFI BREAKER FOR EQUIPMENT PROTECTION (30 mA).  |
| 6.  | CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY PER NEC. REFERENCE GROUND WIRE SIZING CHART. |
| 7.  | REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.   |
| 8.  | REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.  |
| 9.  | FACTORY WIRED TO LOAD.   |
| 10.   | THRU CONTACTOR FOR TIMED CONTROL.  |
| 11.   | LOAD IS EXISTING TO REMAIN.  |
| 12.   | SHUNT TRIP BREAKER   |
| 13.   | EXISTING LOAD IS RELOCATED TO NEW PANEL  |
| (E)   | EXISTING TO REMAIN   |
| (N)   | NEW CIRCUIT  |

| EP ONE-LINE FEEDER SCHEDULE |                       |
|-----------------------------|-----------------------|
| FEEDER TYPE                 | COPPER FEEDER         |
| 50-3                        | 1- 3/4", 3#8, 1#10GR  |
| T100-4                      | 1- 1 1/4", 4#3, 1#8GR |



- Notes:**
- GROUNDING ELECTRODE SYSTEM INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH LOCAL CODES AND/OR AUTHORITY HAVING JURISDICTION.
  - EXTERIOR SWITCHGEAR SHOWN AS AN EXAMPLE AND MAY NOT APPLY. SAME WIRING SHALL APPLY TO INTERIOR SWITCHGEAR OR SERVICE ENTRY EQUIPMENT.

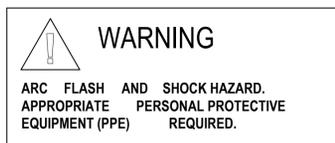
**3 GROUNDING ELECTRODE DETAIL**  
 NTS

| GROUND WIRE SIZING CHART |        |           |    |   |     |     |
|--------------------------|--------|-----------|----|---|-----|-----|
| BRKR AMPS                |        | WIRE SIZE |    |   |     |     |
| 15-20                    | PHASE  | 12        | 10 | 8 | 6   | 4   |
|                          | GROUND | 12        | 10 | 8 | 6   | 4   |
| 25-30                    | PHASE  | 10        | 8  | 6 | 4   | 3   |
|                          | GROUND | 10        | 8  | 6 | 4   | 3   |
| 35-50                    | PHASE  | 8         | 6  | 4 | 3   | 2   |
|                          | GROUND | 10        | 8  | 4 | 4   | 4   |
| 60                       | PHASE  | 6         | 4  | 3 | 2   | 1   |
|                          | GROUND | 10        | 6  | 6 | 4   | 4   |
| 70                       | PHASE  | 6         | 4  | 3 | 2   | 1   |
|                          | GROUND | 8         | 4  | 4 | 3   | 2   |
| 80-90                    | PHASE  | 4         | 3  | 2 | 1   | 1/0 |
|                          | GROUND | 8         | 6  | 4 | 4   | 3   |
| 100                      | PHASE  | 3         | 2  | 1 | 1/0 | 2/0 |
|                          | GROUND | 8         | 6  | 4 | 4   | 3   |

PER NEC 250.122(B)

**EQUIPMENT LABELS**

ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A LABEL APPLIED TO WARN OF POTENTIAL ARC FLASH HAZARDS. REFER TO ARC FLASH DETAIL.



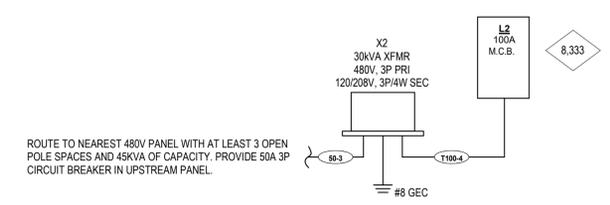
- NOTES:**
- ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALY PRODUCED PERMANENT LABEL APPLIED, SIMILAR TO THE ABOVE, TO WARN OF POTENTIAL ARC FLASH HAZARDS, IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E.
  - LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

**2 ARC FLASH DETAIL**  
 NTS

PROVIDE 4" HIGH FORMED CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL GEAR.

XX,XXX REPRESENTS THE AVAILABLE FAULT CURRENT IN RMS SYMMETRICAL AMPERES AT THE RESPECTIVE TRANSFORMER, PANELBOARD, OR EQUIPMENT. CONFIRM ACTUAL NUMBERS FROM UTILITY ONCE SERVICE HAS BEEN PLANNED AND ADJUST EQUIPMENT AIC RATINGS ACCORDINGLY.

FAULT CURRENT CALCULATIONS ARE BASED ON AVAILABLE FAULT CURRENT OF 60,000 AMPS AT SECONDARY TERMINALS OF TRANSFORMER USING AN INFINITE PRIMARY AND ASSUMED TRANSFORMER RATINGS.



**1 ELECTRICAL ONE-LINE DIAGRAM**  
 NTS