DEPLOYABLE PARTS STORAGE FACILITY

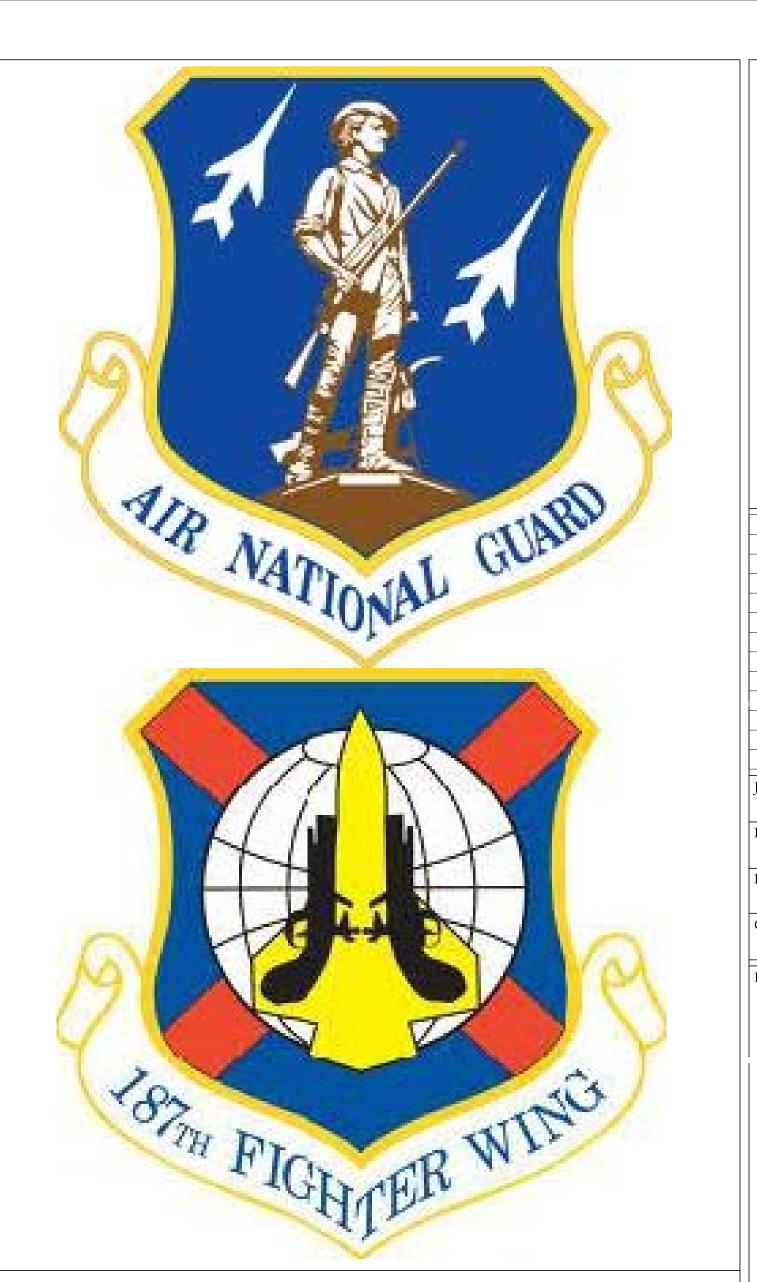
187th Fighter Wing Dannelly Field - AL ANG Montgomery, AL FAKZ189366



| Schedule of Bid Options: | Approvals: | | | |
|--------------------------------|------------------------|------------|-------|--|
| Option #1 Sodding | Title: S | Signature: | Date: | |
| Option #2 New West Parking Lot | Base Commander | | | |
| Option #3 | Base Civil Engineer | | | |
| Option #4 | Base Project Engineer | | | |
| Option #5 | Bio Environmental Eng. | | | |
| Option #6 | Safety | | | |
| Option #7 | Security Police | | | |
| Option #8 | Base Communications | | | |
| | Fire Chief | | | |
| | | | | |

| DSP DRAWING INDEX | | | | | | |
|-------------------|---|--|--|--|--|--|
| DSP SHEET NUMBER | SHEET NAME | | | | | |
| TI.OB | DSP STORAGE TITLE SHEET | | | | | |
| T2.0B | GENERAL WORK NOTES, ABBREVIATIONS & SYMBOLS | | | | | |
| LSI.OB | LIFE SAFETY PLAN | | | | | |
| C1.1 | DSP SITE DEMOLITION PLAN | | | | | |
| C2.1 | DSP SITE LAYOUT PLAN | | | | | |
| C3.1 | DSP SITE GRADING AND DRAINAGE PLAN | | | | | |
| C4.1 | DSP SITE UTILITIES PLAN | | | | | |
| C5.1 | DSP SITE PLAN | | | | | |
| C6.1 | DSP SITE DETAILS | | | | | |
| C7.1 | DSP SITE DETAILS | | | | | |
| LI.OB | DSP SITE PLAN | | | | | |
| AI.OB | DSP DEMOLITION DRAWINGS | | | | | |
| A2.1B | PLANS - DSP STORAGE | | | | | |
| A3.0B | DSP SCHEDULES | | | | | |

| DSP SHEET NUMBER | SHEET NAME | | | | | | |
|------------------|---|--|--|--|--|--|--|
| A4.1B | DSP STORAGE ELEVATIONS AND SECTIONS | | | | | | |
| A5.1B | WALL SECTIONS | | | | | | |
| S0.1B | GENERAL NOTES - SCHEDULES - TYPICAL DETAILS - DSP STORAGE | | | | | | |
| SI.IB | FOUNDATION \$ ROOF FRAMING PLANS - DSP STORAGE | | | | | | |
| S2.1B | SECTIONS AND DETAILS | | | | | | |
| FPI.IB | FIRE SPRINKLER FLOOR PLAN | | | | | | |
| PI.IB | PLUMBING WASTE VENT AND GAS FLOOR PLAN - DSP STORAGE | | | | | | |
| M2.1B | MECHANICAL FLOOR PLAN - DSP STORAGE | | | | | | |
| EO.1B | ELECTRICAL LEGENDS \$ NOTES | | | | | | |
| E0.2B | ELECTRICAL DETAILS | | | | | | |
| EI.IB | DSP STORAGE ELECTRICAL PLANS | | | | | | |
| E1.2B | DSP STORAGE ELECTRICAL PLANS | | | | | | |





Architect:



Consulting Engineers:

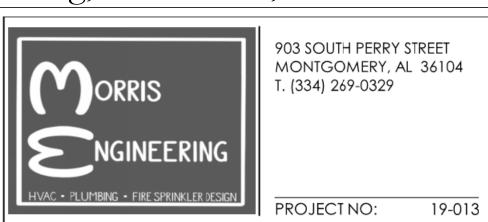
Civil:



Structural:



Plumbing, Mechanical, & Fire Protection:



Electrical:



ASSOCIATES ENGINEERING

901 South Perry Street, Montgomery, AL 36104 o | 334.647.1596 e | <u>admin@garner-engineering.com</u> Project No: 19-013 TS STORAGE FACILITY

DANNELLY FIELD MONTGOMERY AL

Sheet Number

T1.0B

DSP STORAGE

General Project Notes:

GENERAL NOTES APPLY TO THE ENTIRE PROJECT. SPECIFIC NOTES APPLY TO ISOLATED WORK AREAS AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR. HOWEVER, ALL ISOLATED WORK AREAS ARE NOT NOTED. SHOULD A CONDITION OCCUR THAT IS NOT SPECIFICALLY NOTED, THE CONTRACTOR SHALL PROCEED WITH WORK PER GENERAL DEMOLITION NOTES OR A SPECIFIC WORK NOTE(S) USED IN OTHER SIMILAR CONDITIONS, WHICHEVER IS MORE STRINGENT, PER APPROVAL OF ARCHITECT.

CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY CONDITIONS

- I. CONTRACTOR TO VISIT SITE AND TO BECOME TOTALLY FAMILIAR WITH EXTENT OF WORK REQUIRED PRIOR TO BID.
- 2. CONTRACTOR TO VERIFY DIMENSIONS OF INTERIOR PARTITION WALLS. IF DISCREPANCY OCCURS, NOTIFY ARCHITECT PRIOR TO FRAMING.
- 3. CONTRACTOR TO VERIFY ALL FINISHED DIMENSIONS BEFORE INSTALLATION OF CABINET WORK AND TRIMWORK.
- 4. DIMENSIONS OF EXISTING STRUCTURES ARE ONLY FOR THE CONVENIENCE OF THE CONTRACTOR, VERIFY ALL EXISTING CONDITIONS. LOCATION OF WALLS SHALL BE AS SHOWN ON PLAN RELATIVE TO EXISTING CONDITIONS.
- 5. CONTRACTOR TO VERIFY ALL DIMENSIONS AND FIELD CONDITIONS WITH THE DRAWINGS, IN PARTICULAR: WALL DIMENSIONS, INCOMING UTILITIES, ETC. REPORT IMMEDIATELY TO THE ARCHITECT ANY VARIANCES OR FIELD CONDITIONS THAT MAY CAUSE CONSTRUCTION PROBLEMS PRIOR TO COMMENCING WORK.

CONTRACTOR'S REPONSIBILITY TO COORDINATE THE WORK

- I. CONTRACTOR TO VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO COMMENCING. FURNISH INFORMATION NECESSARY TO ADJUST, MOVE OR RELOCATE EXISTING STRUCTURES, UTILITY POLES, LINES, SERVICES OF OTHER SYSTEMS LOCATED IN, OR AFFECTED BY CONSTRUCTION. COORDINATE WITH LOCAL AUTHORITIES HAVING JURISDICTION WITH CONSTRUCTION.
- 2. CONTRACTOR TO VERIFY APPLICABLE OPENINGS, DOOR SIZES, AND DIMENSIONS OF MECHANICAL ROOMS WITH EQUIPMENT. IF DISCREPANCY OCCURS, NOTIFY ARCHITECT PRIOR TO FRAMING.
- 3. CONTRACTOR TO COORDINATE PLUMBING AND MECHANICAL LINES WITH CEILING HEIGHTS, ABOVE CEILING AREAS AND STRUCTURAL ELEMENTS.
- 4. CONTRACTOR TO VERIFY WITH STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL THE QUANTITY AND SIZES OF ALL SLEEVES REQUIRED. ALL SLEEVES TO BE ONE HOUR RATED, PROVIDE GREATER RATING IF PENETRATING INTO HIGHER RATED SPACE.

- I. COORDINATE CONDUIT, PIPING, AND DUCTWORK SO THAT THE HEAD HEIGHT IS
- NOT ENCUMBERED AND SERVICES ARE AS TIGHT UP TO STRUCTURE AS POSSIBLE. 2. CONTRACTOR TO COORDINATE PLUMBING, MECHANICAL, FIRE SPRINKLER, ELECTRICAL, AND LIGHTING WITH STRUCTURAL ELEMENTS WHERE THERE IS EXPOSED STRUCTURE. CONDUIT LINES, ECT. SHALL RUN AT RIGHT ANGLES OR SEGMENTED BETWEEN COLUMN LINES AND BE CLEAN AND NEAT IN APPEARANCE.
- COORDINATE LOCATION OF SWITCHES, OUTLETS, THERMOSTATS, LIGHTS, ETC. W/ SHELVING, TRIM, MARKER BOARDS, AND CABINETRY. MOVE AS REQUIRED TO MISS SHELVING, STORAGE, CASEWORK, VISUAL DISPLAY BOARDS.
- COORDINATE CONDUIT, PIPING, AND DUCTWORK SO THAT HEAD HEIGHT IS NOT ENCUMBERED AND SERVICES ARE AS TIGHT UP TO STRUCTURE AS POSSIBLE, THIS WILL INCLUDE JOGGING DUCTS, SPRINKLER LINES, PLUMBING LINES, CONDUIT, ECT. UP AND DOWN OR AROUND AS REQUIRED TO ACHIEVE CEILING HEIGHTS AS INDICATED. COORDINATE INSTALLATION AND SEQUENCING OF DISCIPLINES TO ACHIEVE.
- 5. THE GENERAL CONTRACTOR SHALL STAKE OUT ALL MAJOR FEATURES SHOWN ON THE SITE PLAN TO VERIFY THE SITE LAYOUT RELATIVE TO THE PROPERTY LINES AND SITE CONDITIONS PRIOR TO ANY UTILITIES OR FOOTINGS BEING INSTALLED.
- COORDINATE FINAL CEILING HEIGHT WITH ALL WINDOWS. ALL TRADES SHOULD BE ABLE TO FIT WITHIN THE ALLOTTED SPACE IF COORDINATED BY THE GENERAL CONTRACTOR AND EACH TRADE. IF FURR DOWNS ARE REQUIRED TO ACCOMMODATE ABOVE CEILING ITEMS, THE CONTRACTOR IS RESPONSIBLE TO
- PROVIDE FURR DOWNS AND COORDINATE LOCATIONS WITH THE ARCHITECT 7. PLUMBING, FIRE-PROTECTION, MECHANICAL, AND ELECTRICAL WORK REQUIRED BY THIS CONTRACT IS NOTED ON CONTRACT DOCUMENTS. THE TRADE CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH ALL TRADES. CHANGE ORDERS SHALL NOT BE APPROVED FOR EXTRA WORK ARISING FROM TRADE CONTRACTORS NOT COORDINATING WORK.
- 8. CONTRACTOR WILL BE RESPONSIBLE FOR ALL LAYOUT FOR INTERIOR/EXTERIOR WALLS AND FOUNDATION AND WILL BE RESPONSIBLE FOR MAINTAINING A BENCHMARK AND CONTROL LINES AT EACH FLOOR LEVEL. CONTRACTOR IS ALSO RESPONSIBLE FOR VERIFYING ACTUAL FLOOR HEIGHTS AND COORDINATING NEW AND EXISTING FLOORS TO ALIGN.
- 9. EACH TRADE CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING AND INSTALLING CEILING OR WALL-MOUNTED ACCESS DOORS AS REQUIRED TO ACCESS COMPONENTS OF ITS SYSTEM AND TO COORDINATE WITH OTHER TRADES SO ACCESS IS MAINTAINED
- IO. PLUMBING, FIRE-PROTECTION, MECHANICAL, AND ELECTRICAL WORK REQUIRED BY THIS CONTRACT IS NOTED ON CONTRACT DOCUMENTS. THE TRADE CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH ALL TRADES. CHANGE ORDERS SHALL NOT BE APPROVED FOR EXTRA WORK ARISING FROM TRADE CONTRACTORS NOT COORDINATING WORK.
- II. CONTRACTOR SHALL COORDINATE TO ASSURE ALL EQUIPMENT CAN BE BROUGHT INTO THE BUILDING. THIS INCLUDES MANUFACTURE COMPONENT SIZE/ASSEMBLY, CRITICAL PATH SCHEDULING, AND COORDINATION OF OTHER TRADES.

36" MIN

General Project Notes (Continued):

CONTRACTOR'S RESPONSIBILTY TO COMPLY WITH APPLICABLE GOVERNING CODES/AUTHORITIES:

- I. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, LAWS, AND ORDINANCES. EACH TRADE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS, INSPECTIONS, AND CERTIFICATES REQUIRED BY GOVERNING ENTITIES.
- 2. CONTRACTOR TO CONFIRM ALL OSHA AND APPLICABLE STANDARDS TO ASSURE SAFETY OF ALL PERSONS ON SITE DURING ENTIRE COURSE OF CONSTRUCTION.
- NEITHER THE ARCHITECT, NOR THE OWNER SHALL BE RESPONSIBLE FOR JOB SAFETY. EACH TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY AND SAFETY OF THE PUBLIC DURING CONSTRUCTION AND SHALL PROVIDE APPROPRIATE WARNINGS, BARRICADES, ETC. AS REQUIRED PER
- 4. PROMPTLY NOTIFY THE ARCHITECT IN WRITING IF ANY CONTRACT DOCUMENTS ARE FOUND TO BE IN VARIANCE WITH THE APPLICABLE LAWS AND ORDINANCES. NECESSARY CHANGES WILL BE MADE BY APPROPRIATE MODIFICATIONS.
- 5. IF ANY WORK IS PERFORMED KNOWING IT TO BE CONTRARY TO SUCH CODES, LAWS, ORDINANCES, RULES AND REGULATIONS, AND WITHOUT NOTICE TO THE ARCHITECT, THAT TRADE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND BEARS COSTS ATTRIBUTED TO BRING WORK TO COMPLIANCE OF SUCH CODES, LAWS, ORDINANCES, AND RULES AND REGULATIONS.

GENERAL PROVISIONS FOR FIRE RATED CONSTRUCTION

- I. ALL RECESSED ACCESSORIES LOCATED IN FIRE RATED WALLS SHALL BE EITHER OF FIRE RATED CONSTRUCTION OR COORDINATED WITH THE ADJACENT TRADES TO ALLOW THE GYPSUM BOARD TO BE CONTINUOUS BEHIND THE ACCESSORIES.
- 2. EACH RESPONSIBLE CONTRACTOR SHALL SEAL ALL PENETRATIONS MADE AS PART OF THEIR WORK IN FIRE-RATED CONSTRUCTION AS REQUIRED BY ALL APPLICABLE CODES. EACH CONTRACTOR TO VERIFY WITH LOCAL FIRE MARSHAL OR BUILDING OFFICIAL HAVING JURISDICTION. EACH RESPONSIBLE CONTRACTOR WILL SEAL ALL PENETRATIONS MADE AS PART OF THEIR WORK THROUGH NON-RATED PARTITIONS. ALL FIRE CAULK TO BE THE SAME BRAND AS DETERMINED BY CONTRACTOR.
- 3. ALL NEW AND EXISTING FIRE WALLS IN WORK AREAS ARE TO BE CARRIED TO THE UNDERSIDE OF THE ROOF DECK AND SEALED AS REQUIRED FOR NECESSARY FIRE RATINGS, AND LABELED PER THE AUTHORITY HAVING JURISDICTION.
- 4. MATERIALS WITHIN PLENUMS. EXCEPT AS REQUIRED BY THE 2009 INTERNATIONAL MECHANICAL CODE SECTION 602.2.1.1 THROUGH 602.2.1.6, MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPEAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723.

MISCELLANEOUS GENERAL PROVISIONS:

I. CONTRACTOR TO NOTIFY ARCHITECT IMMEDIATELY IF THERE ARE ANY DISCREPANCIES WITH TAGGED DETAILS, ENLARGED PLANS, ELEVATIONS, ETC.

2. IN ROOMS WITH FLOOR DRAINS, SLOPE TO DRAIN AT I PERCENT SLOPE UNLESS SPECIFICALLY NOTED OTHERWISE.

НМ

HOR

HR

JST

Hollow Metal

Conditioning

Heating, Ventilation & Air

Height, width, length

Horizontal

Handrail Heater

Interior

Typical Abbreviation Legend:

| • 1 | | | | D - L |
|------------------|------------------------------|------------|------------------------|-----------------|
| ACT | Acoustical Ceiling Tile | JT | Joint | Ref |
| A/C | Air Conditioning | LAM | Lamınate | 4 |
| AB | Anchor Bolt | LAV | Lavatory | à CI AIOI I À À |
| ADA | American Disabilities Act | LVR | Louver | |
| AFF | Above Finish Floor | MIN | Mınımum | Ref |
| ВМ | Beam | MAX | Maxımum | |
| BRG | Bearing | MECH | Mechanical | 1 Ref |
| BRK | Brick | MET | Metal | G G G |
| CFCI | Contractor Furnished | MFR | Manufacturer | AIOI |
| | Contractor Installed | MH | Man Hole | |
| CIP | Cast In Place | MIN | Mınımum | Ref |
| CJ | Control Joint | MISC | Miscellaneous | |
| CL | Column Line | MLDG | Moulding | SIM |
| CLG | Ceiling | MO | Masonry Opening | J |
| CLR | Clear | MTD | Mounted | AIOI |
| CMU | Concrete Masonry Unit | MW | Microwave | • |
| COL | Column | NIC | Not In Contract | A |
| CONC | Concrete | NO | Number | SIM |
| CONT | Continuous | NOM | Nominal | AIOI |
| CONTR | Contractor | NTS | Not to Scale | |
| COORDF | Coordination | OC | On Center | |
| CORR | Corridor | OFCI | Owner Furnished | SIM |
| CT | Ceramic Tile | 0, 0, | Contractor Installed | A101 |
| TR | Center | OFOI | Owner Furnished | |
| DBL | Double | | Owner Installed | |
| DET | Detail | OPP | Opposite | |
| NΑ | Diameter | P | Paint | ROOM NAME |
|)R | Drain | PL | Plate / Property Line | 150 SF |
| N | Down | PL LAM | Plastic Laminate | |
|)5 | Downspout | PLYWD | Plywood | |
|)W | Dishwasher | PNL | Panel | |
| DWG | Drawing | PT | Pressure Treated | |
| DWR | Drawer | R | Radius / Riser | |
| EA | Each | RB | Rubber Base | |
| F | Exhaust Fan | REFR | Refrigerator — - | - • |
| -' <u>-</u> J | Expansion Joint | REINF | Reinforce (D) | 7 |
| -5 =L | Elevation | REV | Revised | 600 |
| ELEC | Electrical | RM | Room | (202A) |
| EQ | Equal | SCHED | Schedule | |
| -Q =X | Existing | SECT | Section | |
| -A EXT | Exterior | SHT | Sheet | (1t) |
| -X I F | Finish Floor | SHW | Single Hung Window | \checkmark |
| - -IN | Finish | SIM | Similar | ^ |
| TIN FL | Floor Line | SPECS | | ⟨1i⟩ |
| I ISNG | | 50 50 | Specifications | A |
| | Flashing | | Square Santan Gewer | 1 |
| FTG CA | Footing | SS STD | Sanitary Sewer | |
| GA CERC | Gauge Class Fiban Paintonead | STD | Standard | 4 |
| GFRC | Glass Fiber Reinforced | SVT STL | Solid Vinyl Tile | X |
| ^W/R | Concrete | | Steel | \bigvee |
| GWB -t | GWB | T T#C | Tile | <u> </u> |
| HT | Height | T#G | Tongue & Groove | <u> </u> |

TYP

- VERTICAL

Typical

Otherwise

Vertical

Wood

Yellow Pine

ALLOWABLE

MOUNTING

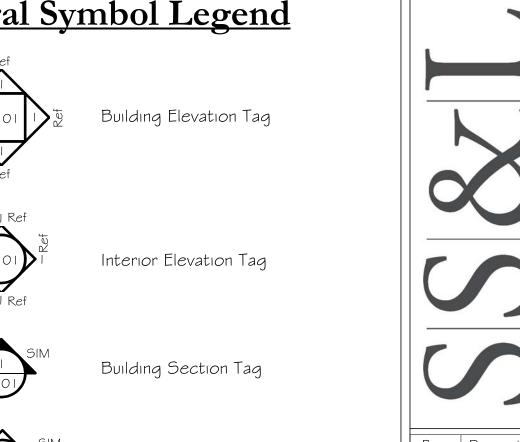
Unless Noted

Vent Thru Roof

Vinyl Wall Covering

Welded Wire Mesh Welded Wire Fabric

General Symbol Legend



Rev. Description Date Wall Section Tag Detail Tag

Job Number

Drawn By

Checked By

Project Title

19084

JLJ/CF/N

10 April 2025

Room Tag

ADA Approved Turning Space

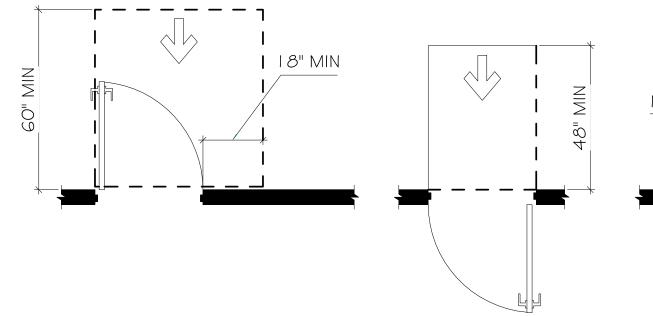
Spot Elevation Door Tag (See Door Schedule)

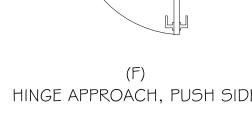
Wall/Storefront Taa (See Wall/Storefront Schedule)

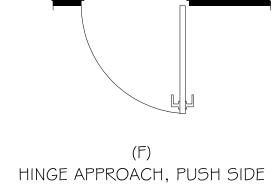
> Revision Tag (See Revision Schedule Specific Note Tag

Window Tag (See Window Schedule)

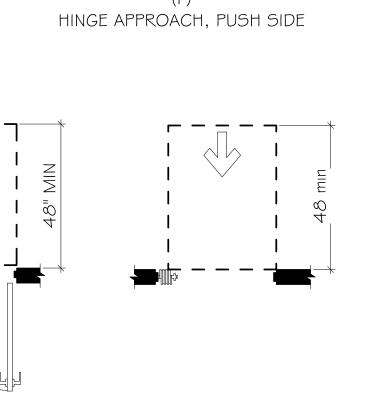
Electric Water Cooler (See Plumbing) Fire Extinguisher Cabinet

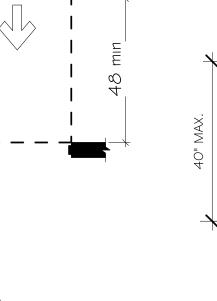


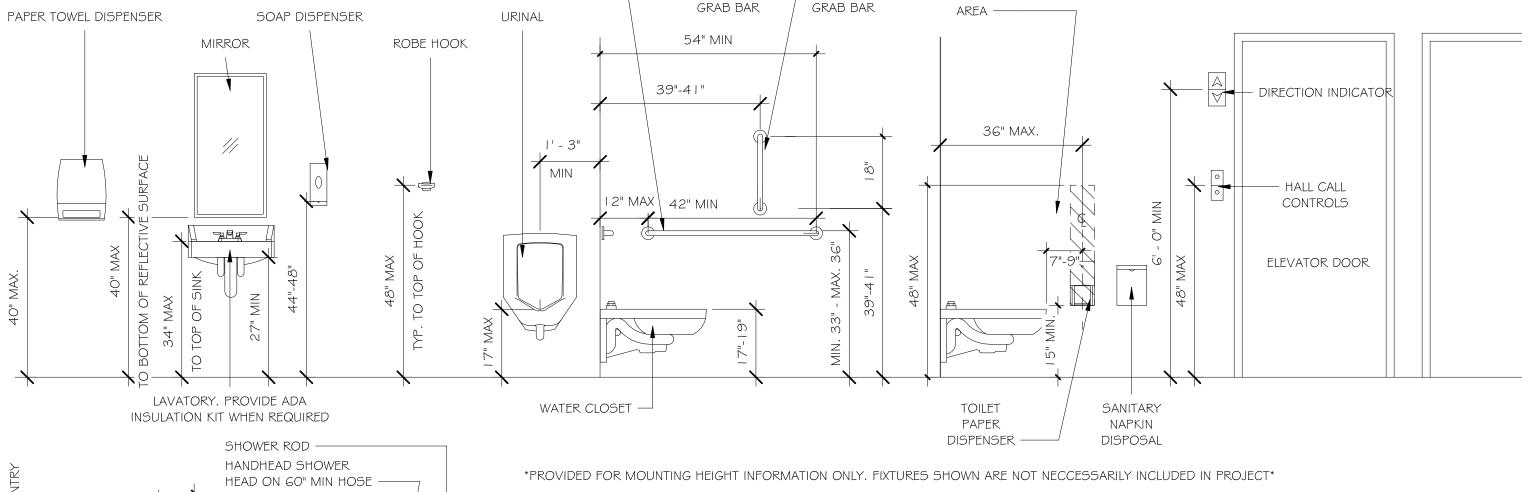




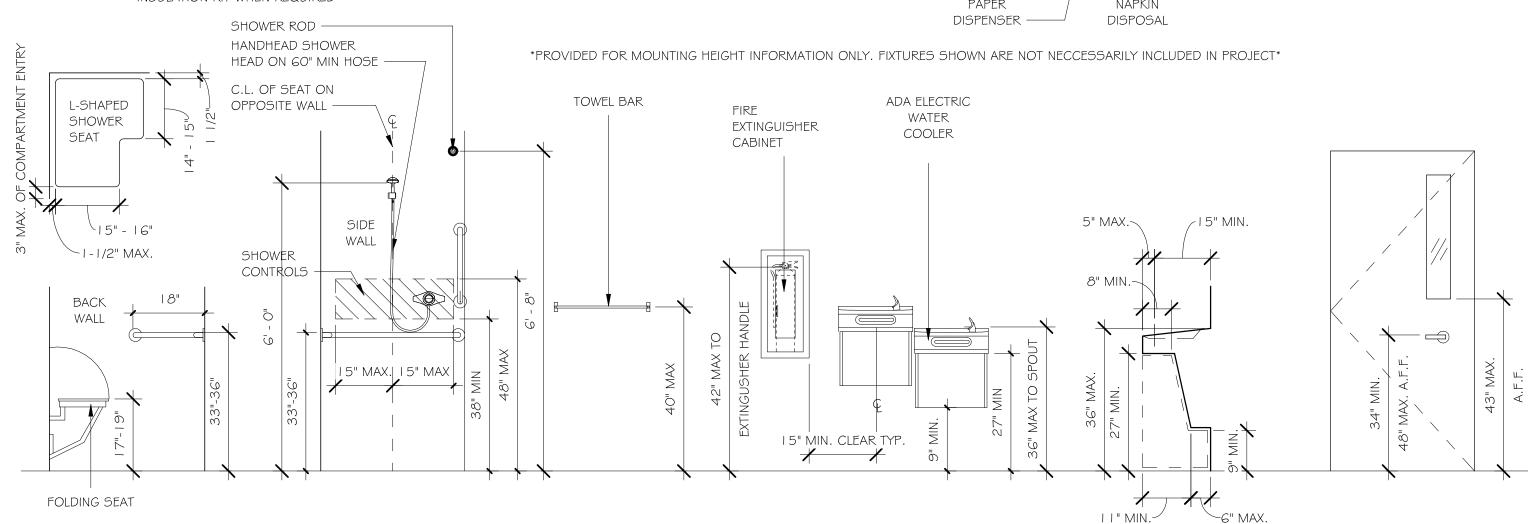
42" MIN

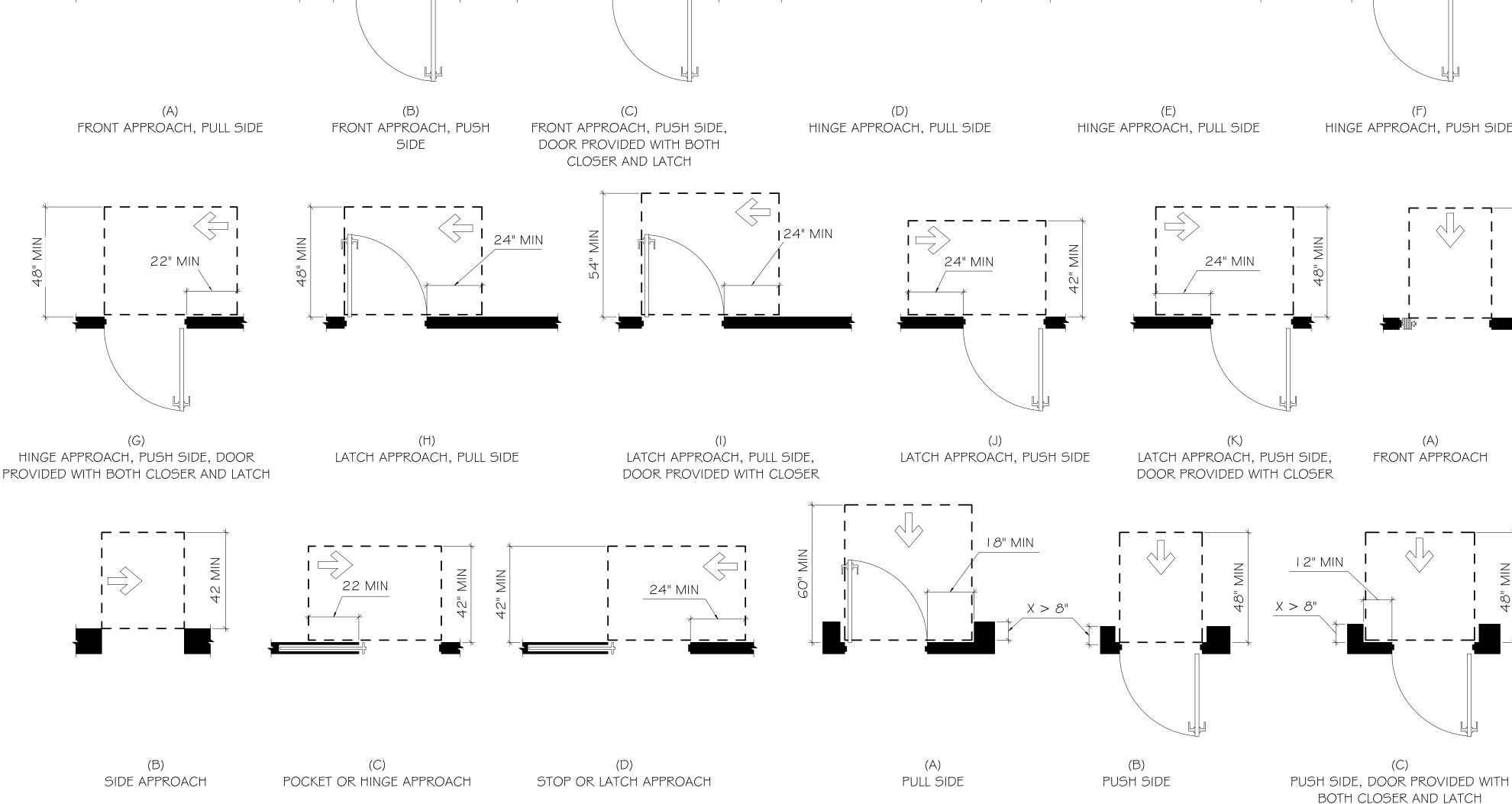






- HORIZONTAL





\ DSP ADA DOOR SWINGS $\sqrt{3/8"} = 1'-0"$

2 DSP TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE

T2.0B 1/2" = 1'-0"

DANNELLY FIELD MONTGOMERY AI

GENERAL WORK ABBREVIATIONS & **SYMBOLS**

Sheet Number T2.0B

SYMBOLS LEGEND

EWC

ELECTRIC WATER COOLER - SEE PLUMBING

FIRE EXTINGUISHER IN SEMI-RECESSED CABINET

FIRE EXTINGUISHER WITH BRACKET I HR FIRE RATED WALL (UL #9 I 4)

SMOKE PARTITION AND CEILING ENCLOSURE

2 HR FIRE RATED WALL (UL #U905)

DASHED LINE INDICATES LOCATION OF 1-HOUR RATED WALL (UL # U4O4) LOCATED ON MEZZANINE LEVEL SEPARATING WAREHOUSE FROM ADMIN SPACE I HR FIRE RATED FLOOR/CEILING ASSEMBLY

(UL # G7 I 7) 2 HR FIRE RATED FLOOR/CEILING ASSEMBLY

(UL #G505)

I OCCUPANT

SÓMÍMÓN PATH

JNCONCENTRATED)

XI OCCUPANT XXXI OCCUPANT

EMERGENCY EXIT SIGNAGE

HANDICAP ACCESSIBLE EXIT LOCATION EXIT TRAVEL PATH

PLUMBING FIXTURE CALCULATIONS Plumbing Fixtures Required Water Closets Drinkina Lavatories Required | Fountains Required Male Female Men Req. Occupancy Occupancy Men Women Women BUSINESS / STORAGE | 58 0.7 2.9 0.7 0.96 14 58 14

STORAGE H-2 GROUP (IBC 2018) 300 SF PER OCCUPANT PER NFPA 101 ORIDINARY HAZARD (NFPA 101) STORAGE S-1 GROUP (IBC 2018) 300 SF PER OCCUPANT PER NFPA 101 ORIDINARY HAZARD (NFPA 101) BUSINESS B OCCUPANCY GROUP (IBC 2018) 150 SF PER OCCUPANT PER NFPA 101 ORIDINARY HAZARD (NFPA 101) BUSINESS B OCCUPANCY GROUP (IBC 2018) 50 SF PER OCCUPANT PER NFPA 101 ORIDINARY HAZARD (NFPA 101) BUSINESS B OCCUPANCY GROUP (IBC 2018) 15 SF PER OCCUPANT PER NFPA 101 ORIDINARY HAZARD (NFPA 101) STORAGE S-I OCCUPANCY GROUP (IBC 2018) 300 SF PER OCCUPANT PER NFPA 101 ORIDINARY HAZARD (NFPA 101) STORAGE S-1 OCCUPANCY GROUP (IBC 2018) 500 SF PER OCCUPANT PER NFPA 101 ORIDINARY HAZARD (NFPA 101) - OCCUPANT LOAD REQUIRED DOOR WIDTH

Rev. Description Date

19084

JLJ/CF/N.

10 April 2025

Job Number

Drawn By

Checked By

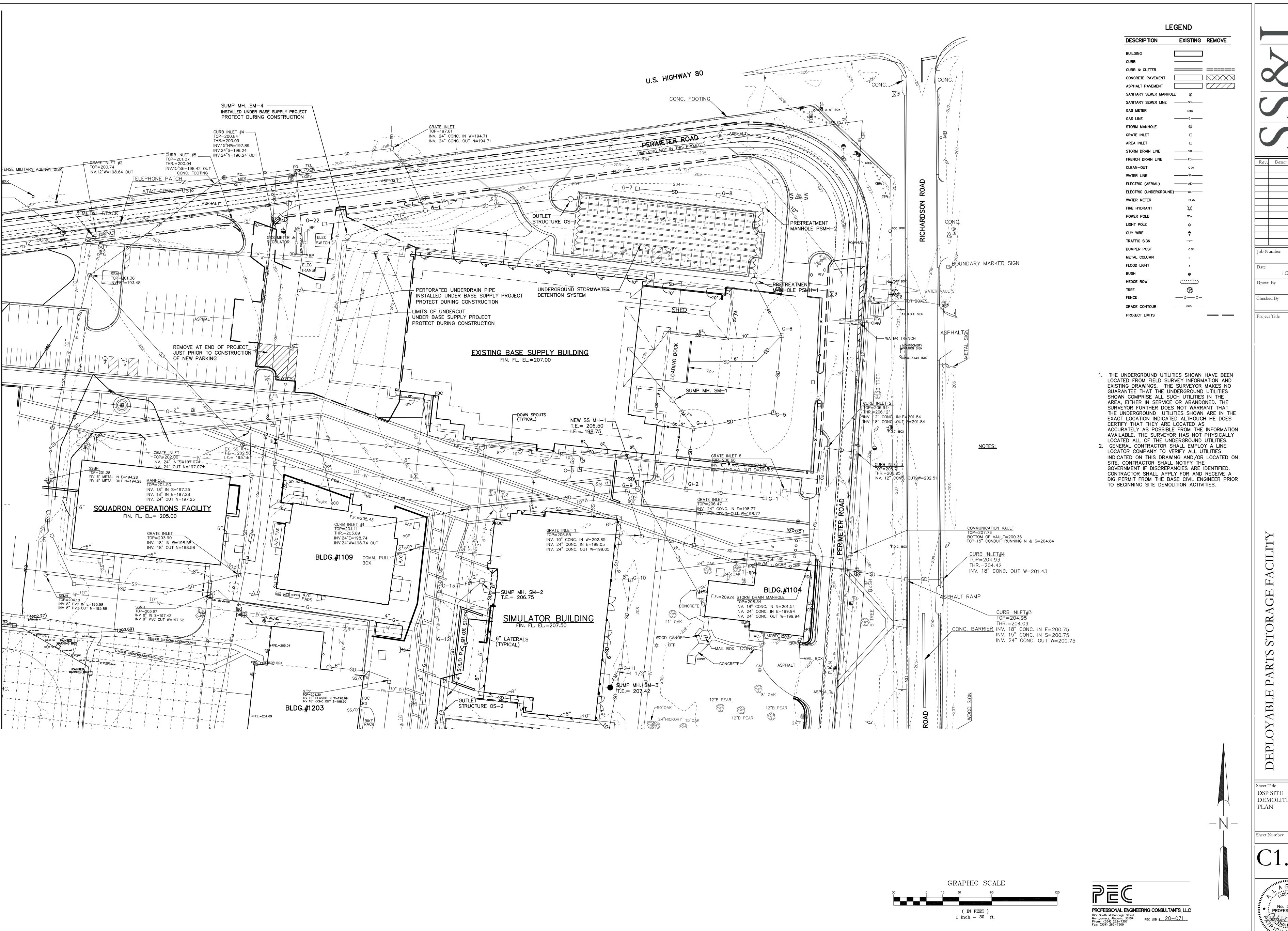
Project Title

DANNELLY FIELD MONTGOMERY AI

Sheet Title LIFE SAFETY PLAN

TYPE B-3 100% **SUBMITTAL**

OSP LIFE SAFETY PLAN 3/32" = 1'-0"



Rev. Description Date

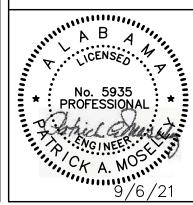
Job Number 19084

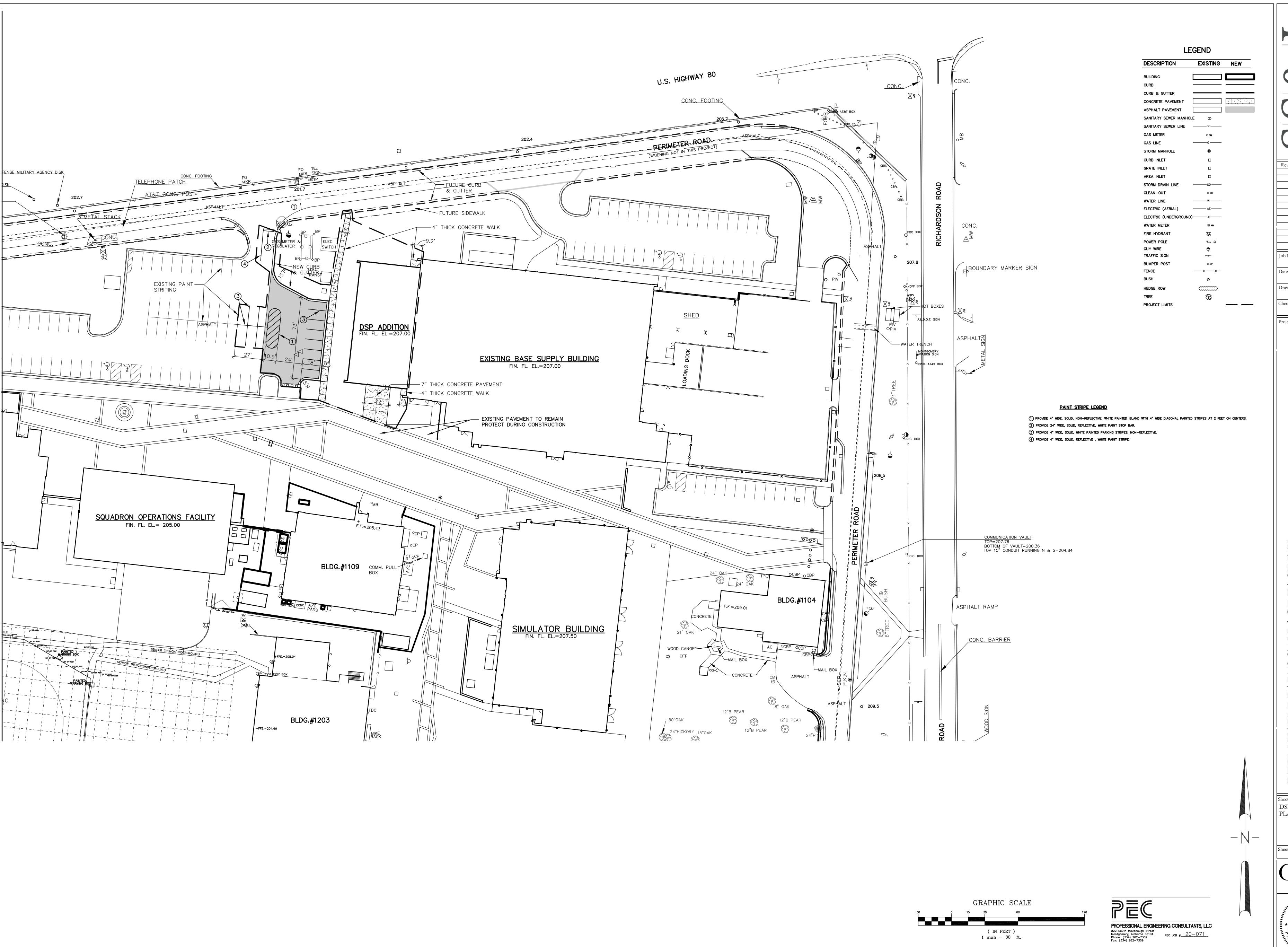
10 April 2025 Drawn By

Checked By Project Title

DANNELLY FIELD MONTGOMERY AI

DSP SITE DEMOLITION



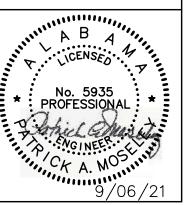


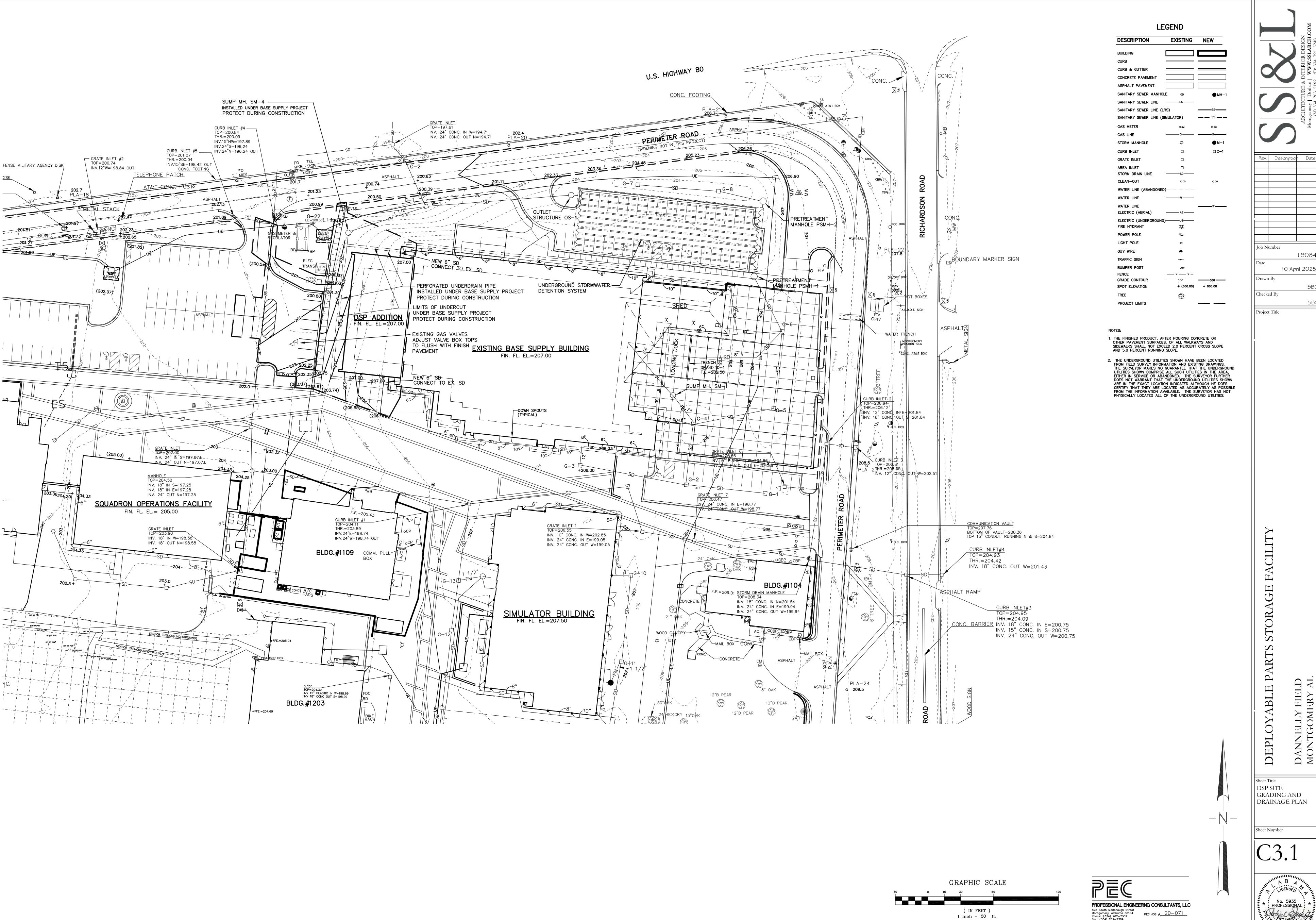
DEPLOYABLE PARTS STORAGE FACILITY
DANNELLY FIELD
MONTGOMERY AL

Sheet Title
DSP SITE LAYOUT
PLAN

Sheet Number

C2.1



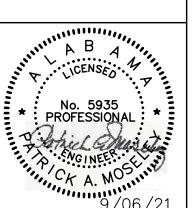


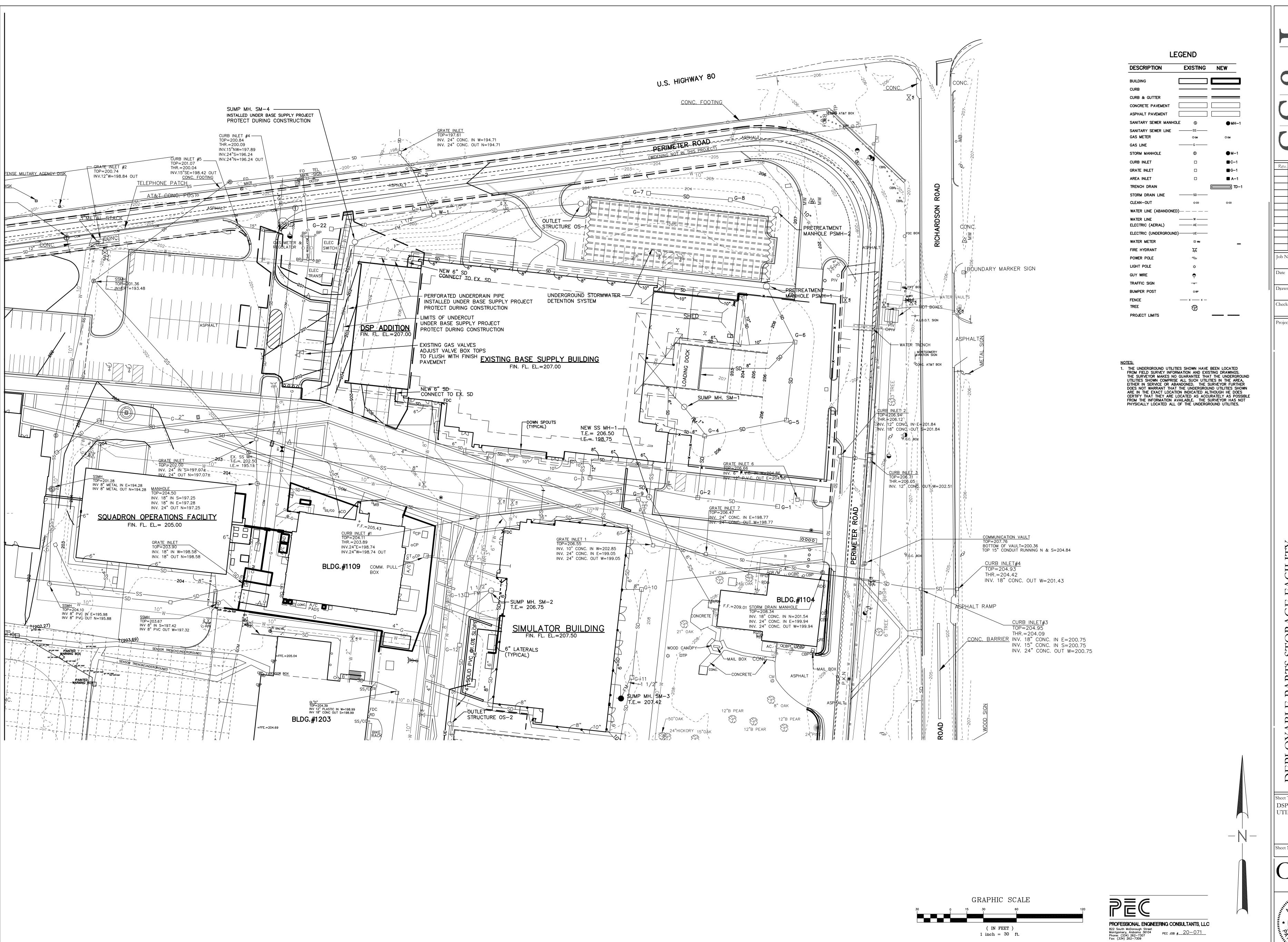
19084

10 April 2025

DANNELLY FIELD MONTGOMERY AI Sheet Title

DSP SITE GRADING AND DRAINAGE PLAN





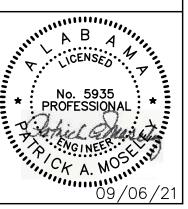
Description Date Job Number 19084

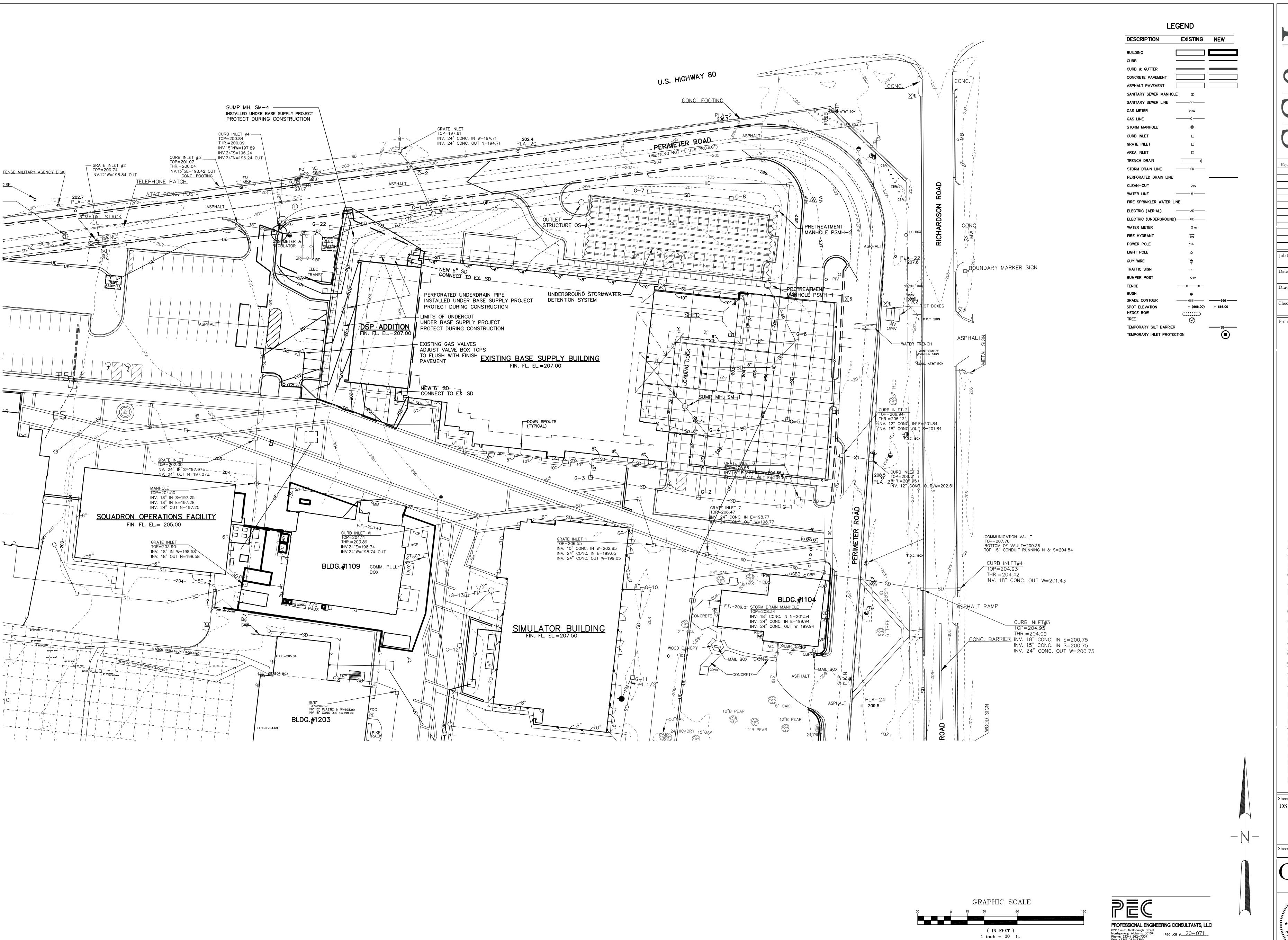
10 April 2025 Drawn By

Checked By Project Title

DANNELLY FIELD MONTGOMERY AL

Sheet Title DSP SITE UTILITIES PLAN

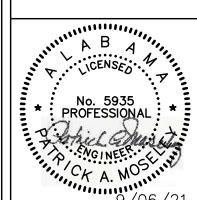




Job Number 19084 10 April 2025 Drawn By Checked By Project Title

DANNELLY FIELD MONTGOMERY AI

Sheet Title DSP SITE PLAN



ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE

EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY

ALL SILT FENCING SHALL COMPLY WITH ALABAMA DEPARTMENT OF

A RESPONSE TO A NOTIFICATION OF NON COMPLIANCE OR INADEQUATE

STORM DRAIN SYSTEMS SHALL BE MAINTAINED CLEAN AND FREE OF SILT AND DEBRIS

MEASURES SHALL BE MADE WITHIN 24 HOURS AFTER RECEIVING SUCH NOTIFICATION, UNLESS OTHERWISE SPECIFIED FOR CONDITIONS DEEMED CRITICAL.

NO CLEARING, GRADING, FILLING, OR OTHER LAND DISTURBING ACTIVITIES

2. THESE EROSION AND SEDIMENT CONTROL MEASURES SHALL APPLY TO ALL

B) MAINTENANCE: ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONTINUOUSLY MAINTAINED BY THE CONTRACTOR DURING THE CONSTRUCTION PHASE OF THE DEVELOPMENT.

ALL EROSION CONTROL MEASURES SHALL BE REMOVED AT THE COMPLETION

FEATURES OF THE CONSTRUCTION SITE, INCLUDING BUT NOT LIMITED TO STREET

MEASURES HAVE BEEN INSTALLED, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL

SHALL BE PERMITTED UNTIL APPROVED EROSION AND SEDIMENT CONTROL

INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTION DUE

3. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL

PRACTICES MAY RESULT IN CONSTRUCTION BEING HALTED.

AND FOLLOWING RAINFALL AND REPAIRED BY CONTRACTOR.

TRANSPORTATION STANDARDS AND SPECIFICATIONS.

TO CONDITIONS NOT SHOWN ON PLANS.

IMPLEMENTATION AND MAINTENANCE:

AND UTILITY INSTALLATIONS AS WELL.

A) IMPLEMENTATION:

OF THIS CONTRACT.

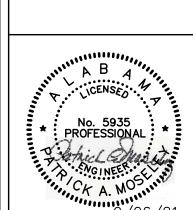
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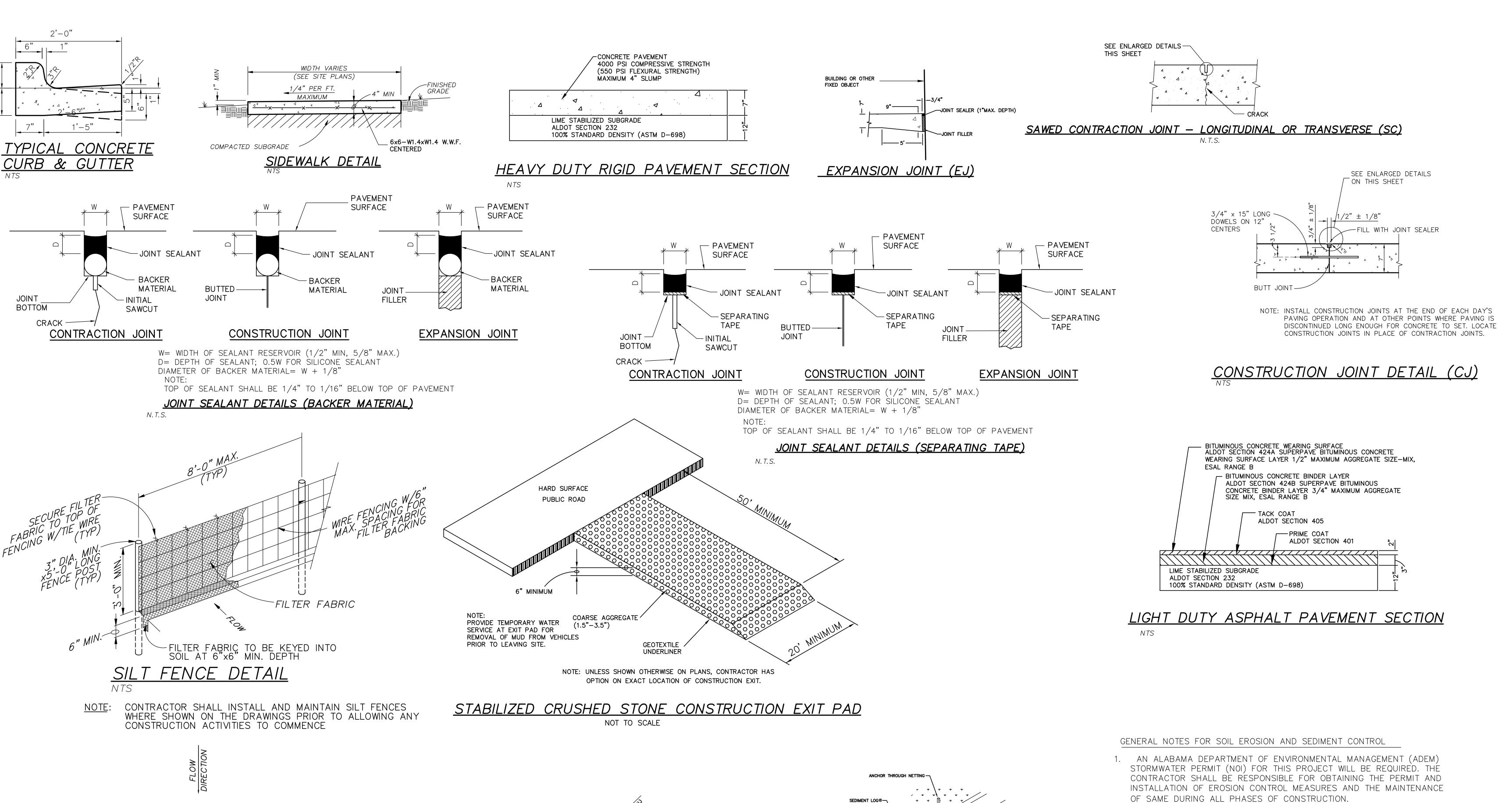
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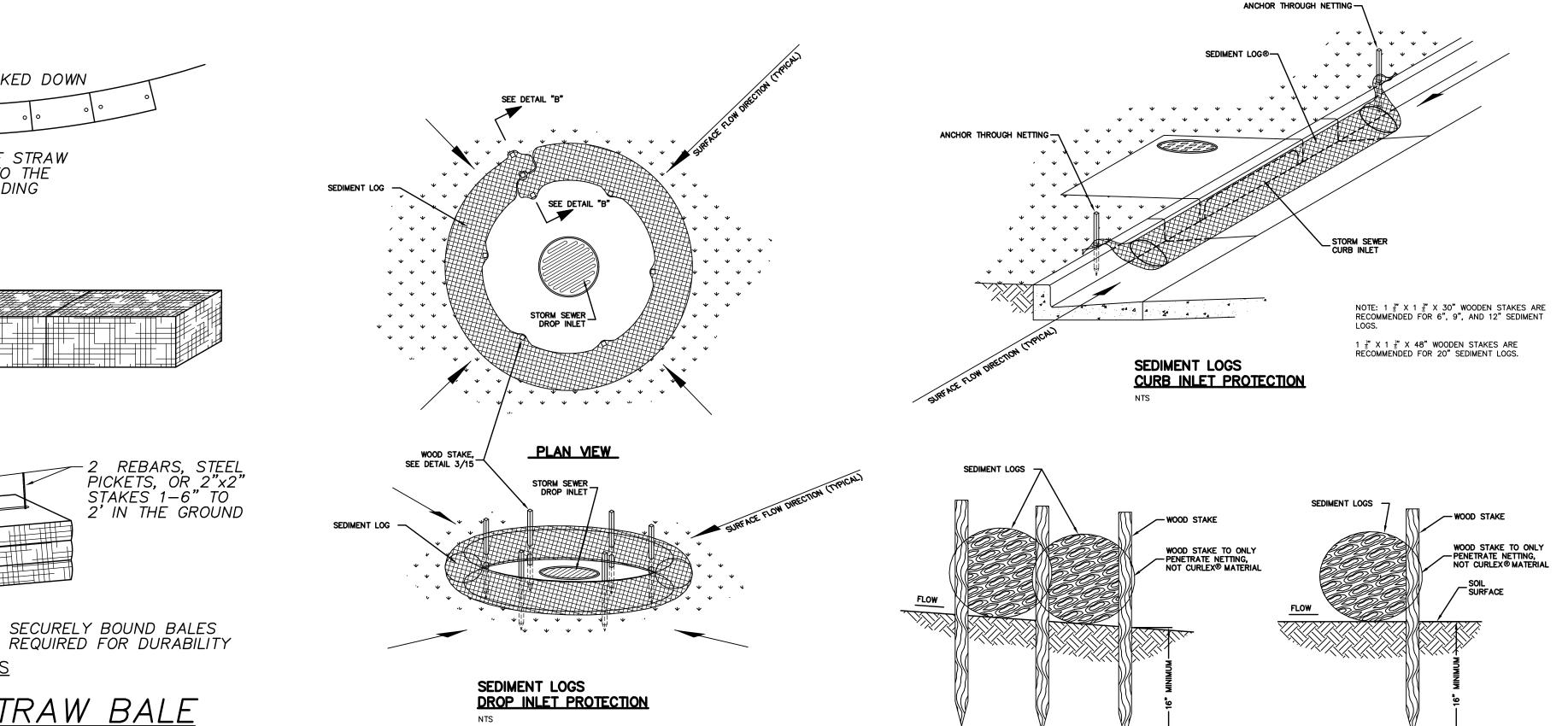
10 April 2025

Sheet Number

C6.1







STAKE DETAIL "B"

STAKE DETAIL "A"

BALES OF STRAW STAKED DOWN

SINGLE ROW OF BALES OF STRAW
TO BE PLACED PRIOR TO THE
START OF ROUGH GRADING

<u>PLAN VIEW</u>

FRONT VIEW

ANCHORING BALES

SEDIMENT BARRIER

TEMPORARY STRAW BALE

WIRE TIES-

BALE TIES

Rev. Description Date

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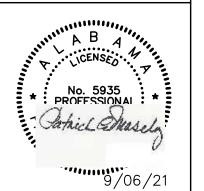
10 April 2025

Job Number

Drawn By

Checked By

Project Title



PROFESSIONAL ENGINEERING CONSULTANTS, LLC
822 South McDonough Street
Montgomery, Alabama 36104
Phone: (334) 262-7307
Fax: (334) 262-7309

PEC JOB # 20-071

LEGEND

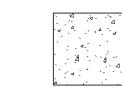
NOT IN SCOPE -REFER TO FAKZ999088



AREA TO RECEIVE GRASS SEED/SOD - REFER TO ALTERNATES



ASPHALT- SEE CIVIL



CONCRETE PAVING- SEE CIVIL



BOLLARD

○ RB

REMOVEABLE BOLLARD

 λII

Rev. Description Date

10 April 2025

LOYABLE PARTS STORAGE FACI

Sheet Title
DSP SITE PLAN

DANNELLY FIELD MONTGOMERY AL

That Number

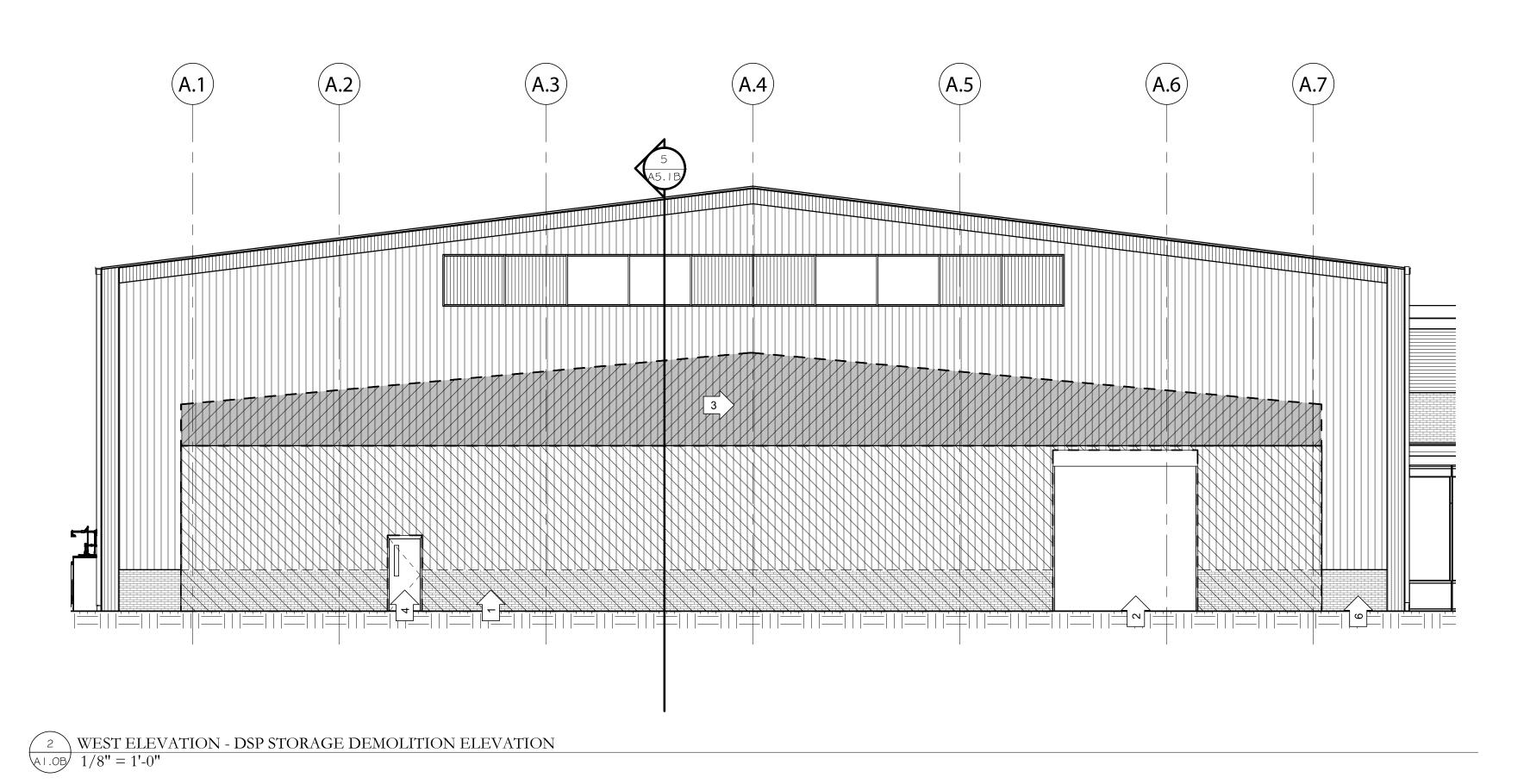
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TYPE B-3 100% SUBMITTAL

LANDSCAPE PLAN Copy 1 1" = 10'-0"

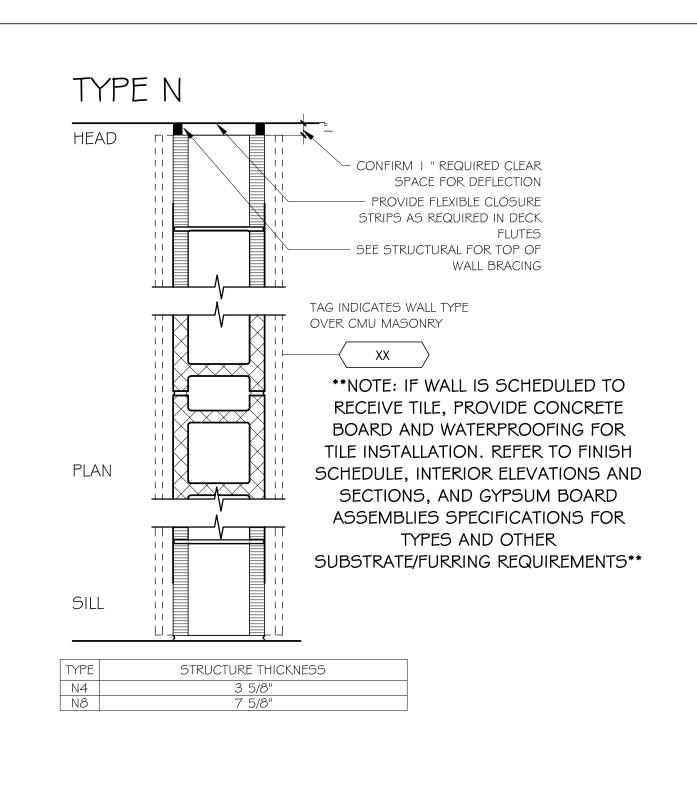


- I. DOCUMENTATION CONTAINED IN THESE CONSTRUCTION DOCUMENTS OF EXISTING CONDITIONS ARE GENERAL AND APPROXIMATE. GENERAL CONTRACTOR IS STRONGLY RECOMMENDED TO VISIT THE FACILITY PRIOR TO BID TO BECOME TOTALLY FAMILIAR WITH THE QUANTITY AND SCOPE OF THE WORK. THE GENERAL NOTES SHOWN LISTED ON THIS PAGE SHALL APPLY TO ALL SHEETS. SPECIFIC NOTES ARE SHOWN ON INDIVIDUAL SHEETS AND PERTAIN ONLY TO THAT PARTICULAR SHEET.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR AND MAKE REPAIR TO ANY AND ALL DAMAGE TO "EXISTING TO REMAIN" EQUIPMENT, FIXTURES, WALLS, FLOORS, DOORS, WINDOWS, HARDWARE, TRIM, OR ANY OTHER BUILDING ELEMENT THAT MAY OCCUR DURING THE DEMOLITION AND/OR CONSTRUCTION PHASES. ALL REPAIRS SHALL BE MADE PRIOR TO SUBSTANTIAL COMPLETION.
- 3. CONTRACTOR TO VERIFY ALL LOAD BEARING CONDITIONS AND PROVIDE SHORING AS REQUIRED IN ALL AFFECTED AREAS PRIOR TO AND DURING
- DEMOLITION AND/OR CONSTRUCTION.
- 4. CONTRACTOR SHALL ASSUME THAT ANY AND ALL CONCRETE/MASONRY INDICATED TO BE REMOVED IS REINFORCED. 5. WHERE REQUIRED, ALL ACOUSTICAL CEILING TILES SHALL BE DEMOLISHED IN THEIR ENTIRETY ALONG WITH ASSOCIATED GRIDS, HANGERS, FASTENERS,
- CLIPS, ETC UNLESS OTHERWISE NOTED. 6. REMOVE ALL MISC. HARDWARE, PANELING, CLIPS, FASTENERS, ETC FROM ANY AND ALL SURFACES TO RECEIVE A NEW FINISH. PATCH SUBSTRATE BY FILLING, GRINDING AND SANDING SMOOTH WITH ACCEPTABLE CONSTRUCTION INDUSTRY AND CODE COMPLIANT MATERIALS. PREPARE SURFACE FOR
- ACCEPTANCE OF MANUFACTURER SPECIFIED FINISH AND SURFACE TREATMENT. INSTALLATION OF FINISH INDICATES ACCEPTANCE OF SUBSTRATE BY APPLICATOR.
- 7. CONTRACTOR SHALL LEAVE WORK SITE GENERALLY CLEAN AT THE END OF EACH WORK DAY (ESPECIALLY AROUND THE EXTERIOR OF THE BUILDING AND WITHIN THE STAGING AREA).
- 8. REMOVE ALL EXISTING FINISHES AS REQUIRED IN PREPARATION FOR INSTALLATION OF NEW FINISHES. SEE FINISH SCHEDULE AND PROJECT SPECIFICATIONS.
- 9. ALL EXISTING EXPOSED CONCRETE FLOOR SURFACES SCHEDULED TO REMAIN AS EXPOSED CONCRETE FLOOR SURFACES SHALL BE STRIPPED, SANDED, AND/OR GROUND SMOOTH AS MAY BE REQUIRED FOR INSTALLATION OF NEW CONCRETE SEALER UNLESS SPECIFICALLY NOTED OTHERWISE. STRIP, SAND, AND/OR GRIND AS RECOMMENDED BY MANUFACTURER OF NEW FINISH MATERIAL - REFER TO FINISH SCHEDULE AND PROJECT SPECIFICATIONS.
- IO. REFER TO FIRE SUPPRESSION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR REQUIRED DEMOLITION OF EXISTING FIRE SUPPRESSION, PLUMBING, MECHANICAL, AND ELECTRICAL SYSTEMS. PATCH ALL LOCATIONS REQUIRED BY FIRE SUPPRESSION, PLUMBING, MECHANICAL, AND ELECTRICAL DEMOLITION ACTIVITIES AND MATCH ADJACENT MATERIALS.
- II. PROTECT ALL EXISTING BUILT IN EQUIPMENT AS REQUIRED DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING EQUIPMENT RESULTING FROM CONSTRUCTION ACTIVITIES AT NO COST TO THE OWNER. VERIFY CONDITIONS OF EXISTING EQUIPMENT WITH OWNER PRIOR TO BEGINNING ON SITE DEMOLITION AND CONSTRICTION ACTIVITIES.
- 12. ALL EXISTING FLOOR FINISHES ARE TO BE DEMOLISHED. PREPARE CONCRETE FLOOR SLAB AS REQUIRED TO INSTALL NEW FLOOR FINISHES. REFER TO FINISH SCHEDULE AND PROJECT SPECIFICATIONS.
- 13. DEMOLISH EXISTING CONCRETE FLOOR SLABS AS REQUIRED TO INSTALL NEW MECHANICAL, PLUMBING, ELECTRICAL, STRUCTURAL, AND FIRE PROTECTION SYSTEMS. PATCH FLOOR BACK IN ACCORDANCE WITH DETAIL 5/A I . 2 AND APPLICABLE PROJECT REQUIREMENTS.



DEMOLITION PLAN / ELEVATION SPECIFIC NOTES

- HATCHED AREA DENOTES AREA OF METAL PANEL, WALL GIRTS, BRICK VENEER, ETC. TO BE DEMOLISHED AS REQUIRED - SEE STRUCTURAL AND WALL SECTIONS. PROCTECT AND RETAIN CMU BACKUP WALL IN THIS LOCATION.
- PROTECT EXISTING COILING DOOR AS REQUIRED DURING CONSTRUCTION ACTIVITES. ENSURE PROPER OPERATION ONCE CONSTRUCTION IS COMPLETE.
- REMOVE EXISTING METAL WALL PANELS AS REQUIRED FOR INSTALLATION OF NEW INSULATED METAL ROOF PANELS AND GIRTS FOR THE DSP PROJECT. PROTECT EXISTING WALL PANELS AND WALL GIRTS DURING REMOVAL. REINSTALL WALL PANELS AFTER NEW ROOF HAS BEEN INSTALLED. SEE STRUCTURAL.
- CONSTRUCTION ACTIVITIES. MAINTAIN EXIT AND PROTECT DURING CONSTRUCTION.
- DEMOLISH EXISTING CONCRETE PAD IN PREPARATION OF NEW 5 CONSTRUCTION.
- PROTECT EXISTING ELECTRICAL EQUIPMENT AS REQUIRED DURING CONSTRUCTION.



FLOOR PLAN LEGEND PARTITION TAG LEGEND

[----] 2* L _ _ _ _ _ J

I. THE FIRST CHARACTER IN THE TAG REFERENCES THE PARTITION TYPE THE SECOND CHARACTER IN THE TAG REFERENCES THE THICKNESS OF THE STRUCTURE (CMU, METAL STUD, WOOD, ETC.)

REFER TO INTERIOR ELEVATIONS AND ASSOCIATED WALL SECTIONS AND DETAILS FOR ADDITIONAL FURRING REQUIREMENTS AND FINISHES NOT SHOWN ON WALL TYPE PLAN SCHEDULE

NOTE - REFER TO LIFE SAFETY PLAN FOR PARTITION RATINGS

ROOF PLAN LEGEND

STANDING SEAM METAL ROOF (LINES FOR SEAMS ON METAL ROOF TYPES, REFER TO SPECS FOR PANEL SIZES)

DOWNSPOUT + BOOTS (BOOTS NOT SHOWN) (NOTE: REFER TO ELECTRICAL FOR LIGHTNING PROTECTION - COORDINATE AS REQUIRED)

VTR VENT TO ROOF - SEE MECHANICAL/ PLUMBING \$ 5/A5.1B, AND 6/A5.1B

GENERAL NOTES

NOTE I - LOCATE ALL PENETRATIONS THROUGH METAL ROOF PANELS AT MIDPOINT IN ROOF PANEL NOTE 2 - REFER TO ELECTIRCAL FOR LIGHTNING PROTECTION - COORDINATE AS REQUIRED

CEILING MATERIAL LEGEND

LIGHT FIXTURE - SEE ELECTRICAL

SUPPLY DIFFUSER -SEE MECH.

RETURN DIFFUSER SEE MECH.

MCJ TYPE V SEALANT.

GENERAL NOTES:

DS DOWNSPOUT AND BOOT

X
AX.X

SECTION/DETAIL TAG

O BD BOLLARD

(1i) CURTAIN WALL/STOREFRONT TAG

○ RB REMOVABLE BOLLARD

WALL TAG

SPECIFIC NOTE TAG

202A) DOOR TAG

I. REFER TO EXTERIOR WALL SECTIONS FOR WALL ASSEMBLIES. 2. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL WALLS (INCLUDING STRUCTURE, FINISH, AND INSULATION) SHALL EXTEND TO

UNDERSIDE OF ROOF DECK ABOVE. 3. ALL WALLS TO RUN FULL HEIGHT TO STRUCTURE ABOVE. COORDINATE OPENINGS TO ACCOMODATE MECHCANICAL. SEAL ALL

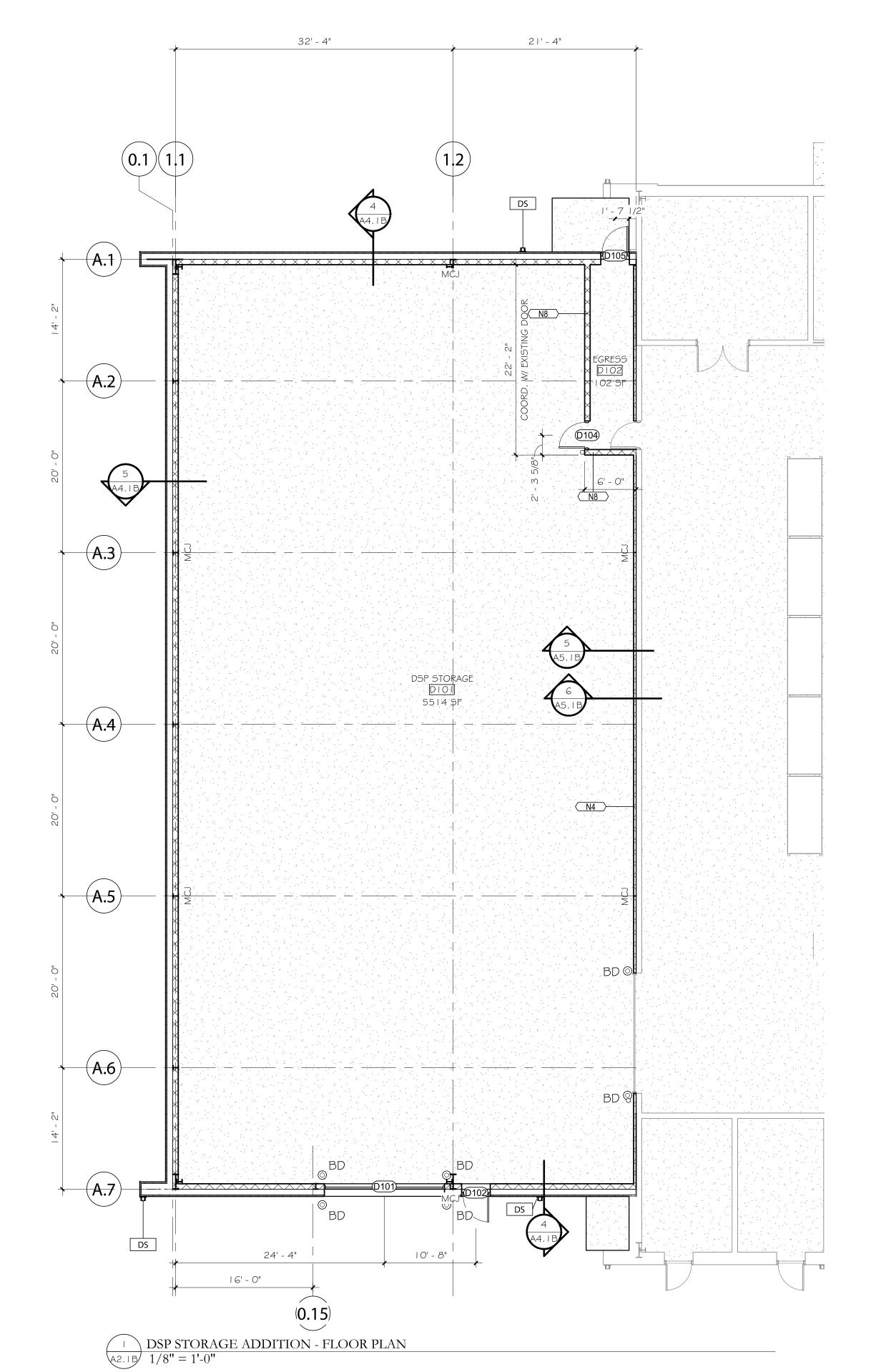
PLUMBING, MECHANICAL, ELECTRICAL, AND FIRE PROTECTION PENETRATIONS. 4. FOR EXTERIOR WALL EXPANSION JOINTS SEE EXTERIOR ELEVATIONS.

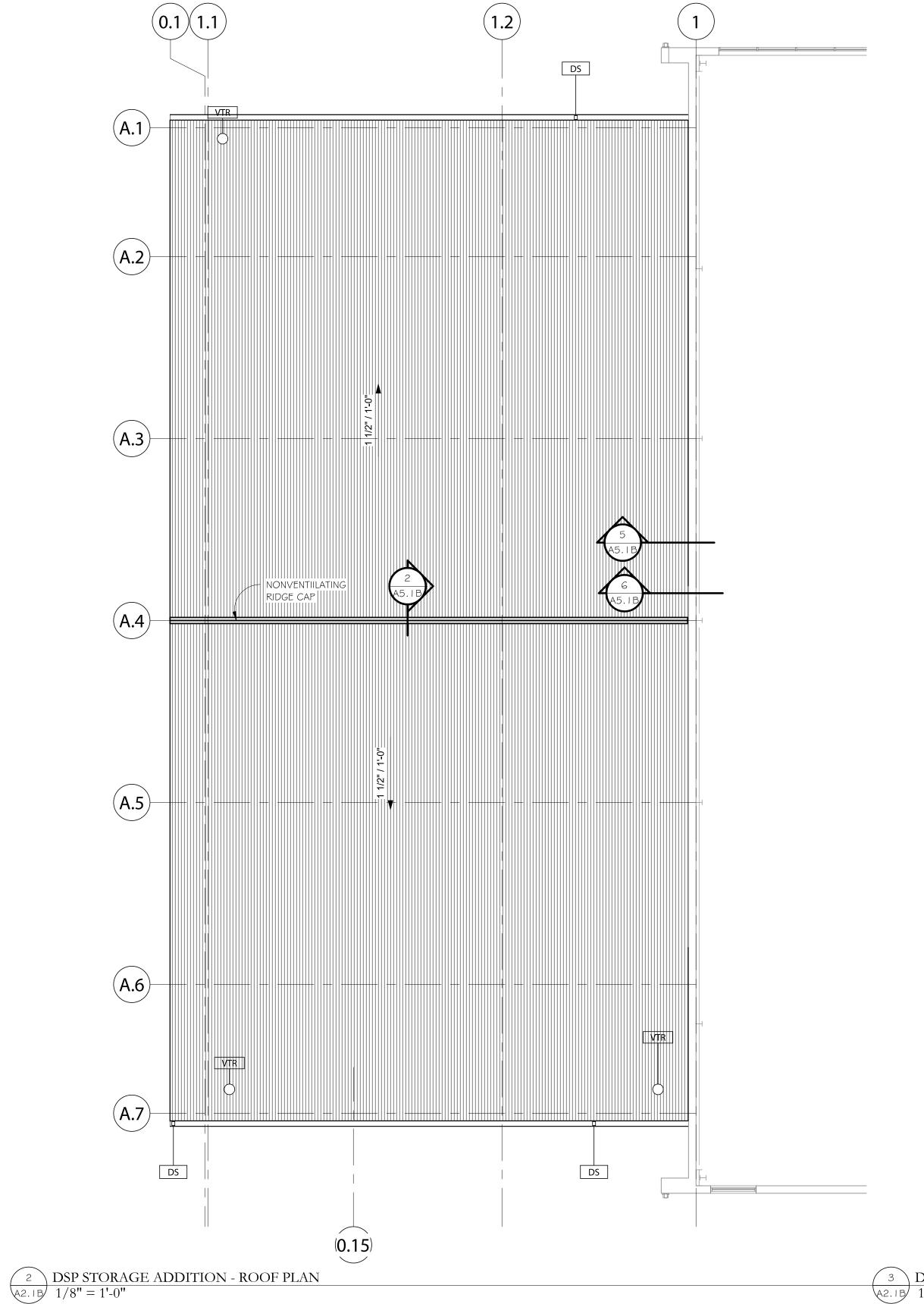
DIMENSION NOTES: ALL DIMENSIONS ARE MEASURED AS FOLLOWS: - INTERIOR STUD WALLS ARE DIMENSIONED TO THE CENTER LINE OF THE WALL

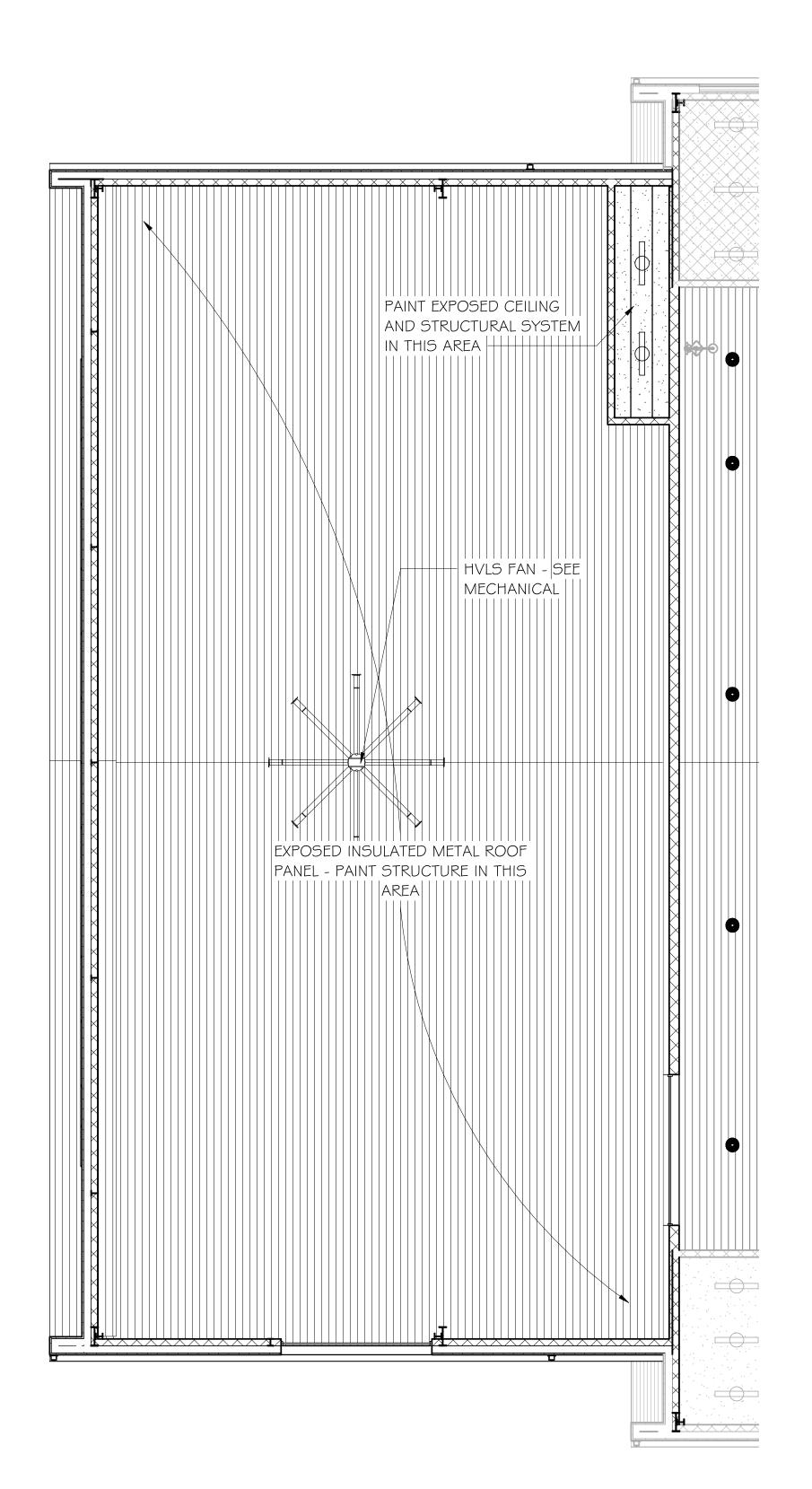
GYPSUM CONTROL JOINT - REFER TO DETAIL 6/A2.4

MASONRY CONTROL JOINT - REFER TO SO. I , PROVIDE

- EXTERIOR WALLS ARE DIMENSIONED TO THE OUTSIDE FACE OF THE STUDS OR CMU.







Job Number

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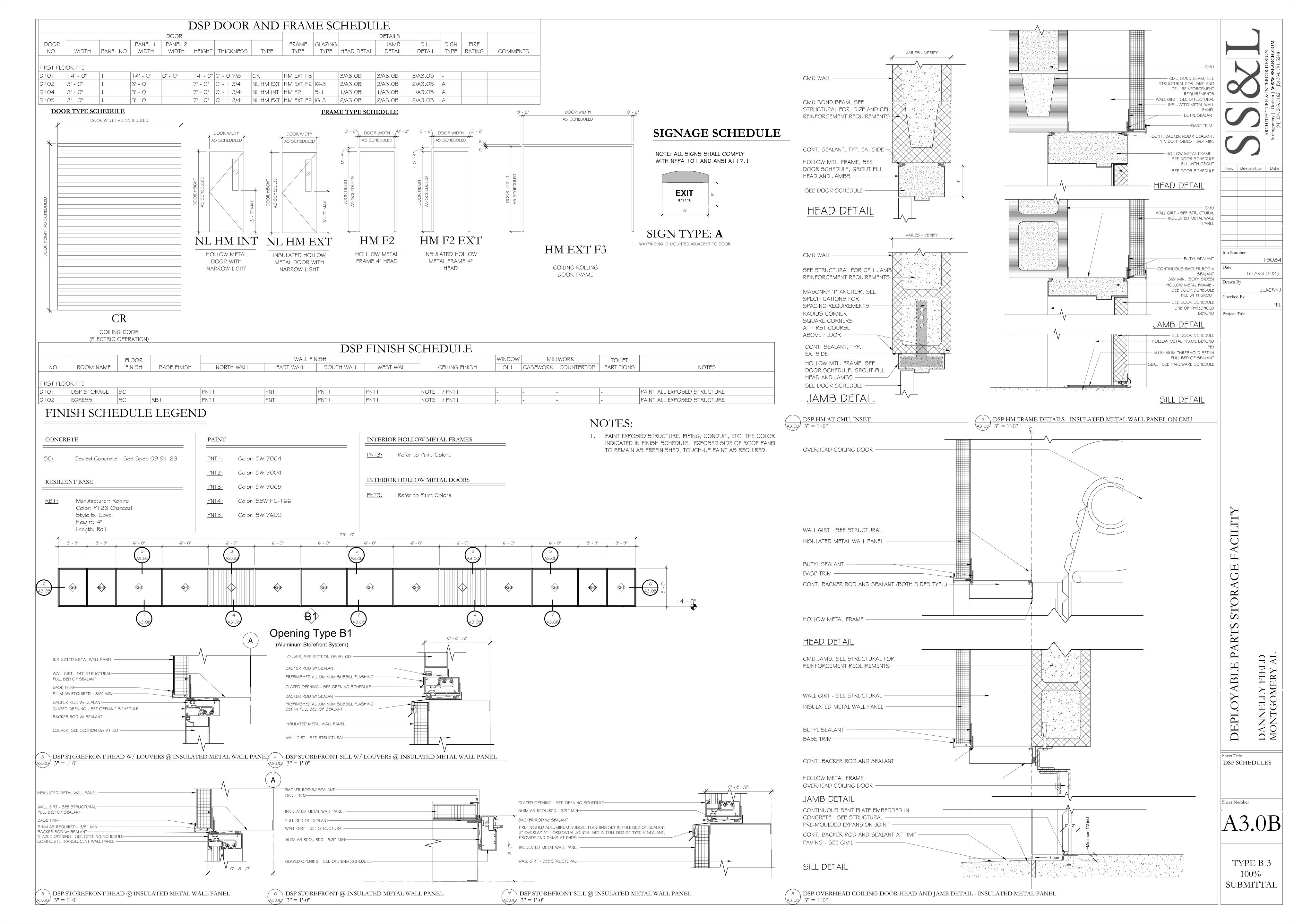
19084 10 April 2025 Drawn By JLJ/CF/NJ

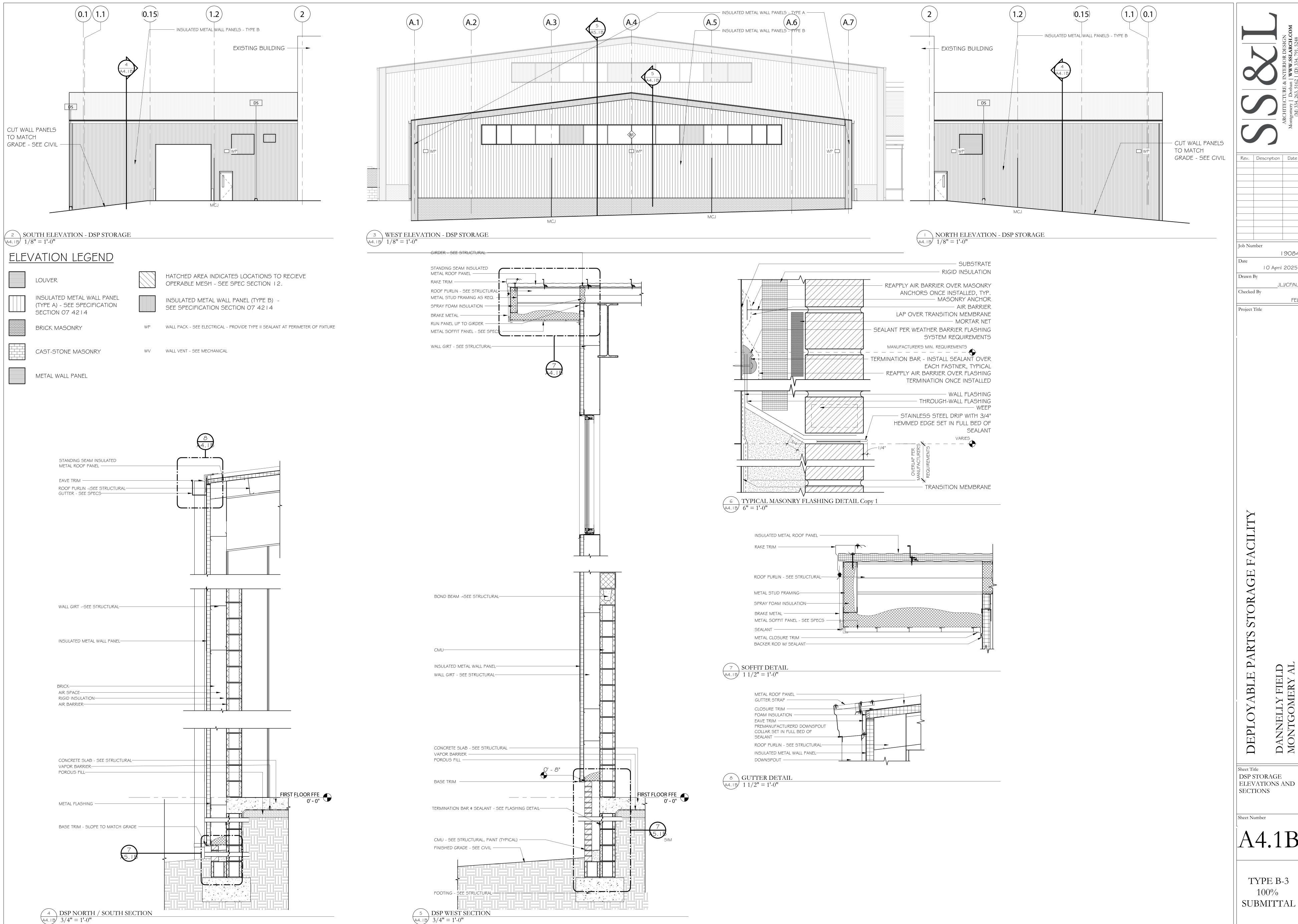
Checked By Project Title

Sheet Title
PLANS - DSP
STORAGE

TYPE B-3 100% SUBMITTAL

3 DSP REFLECTED CEILING PLAN



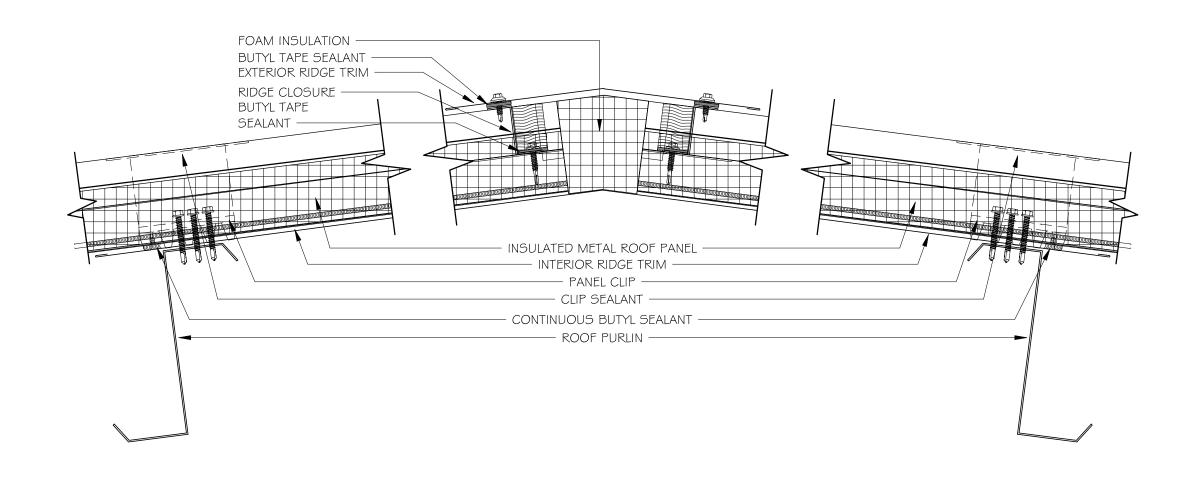


19084 10 April 2025 JLJ/CF/NJ

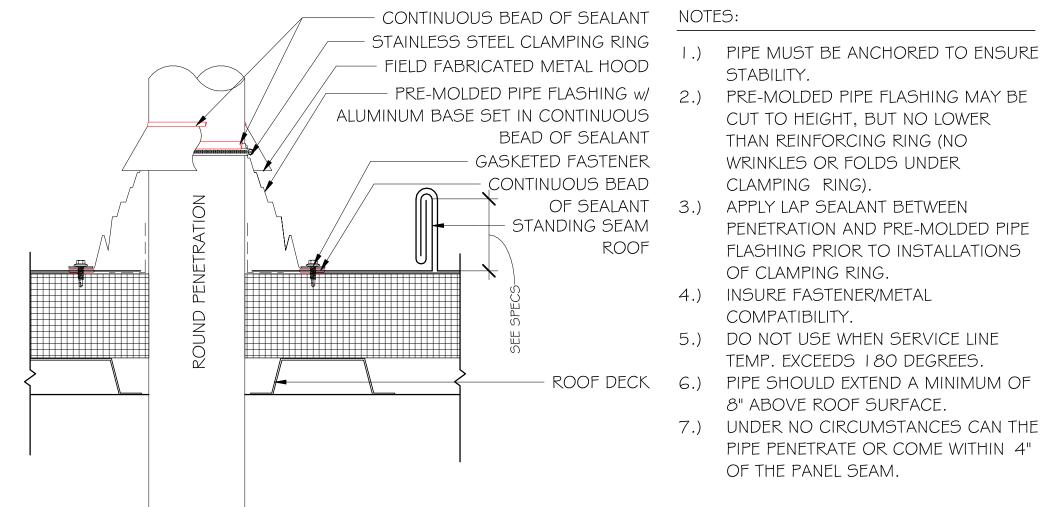
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DSP STORAGE ELEVATIONS AND SECTIONS

WALL TO ROOF DETAIL 45.+B 11/2" = 1'-0"

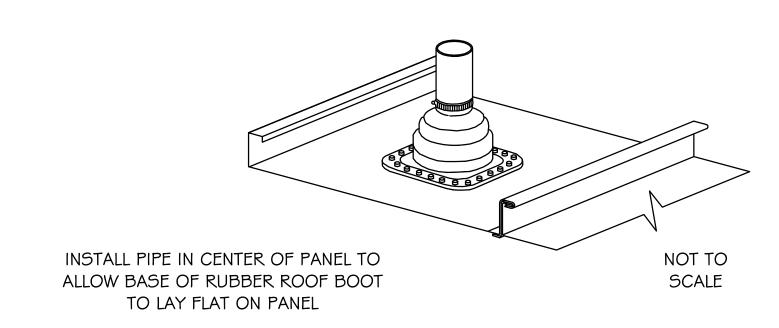


ROOF RIDGE 3'' = 1'-0''

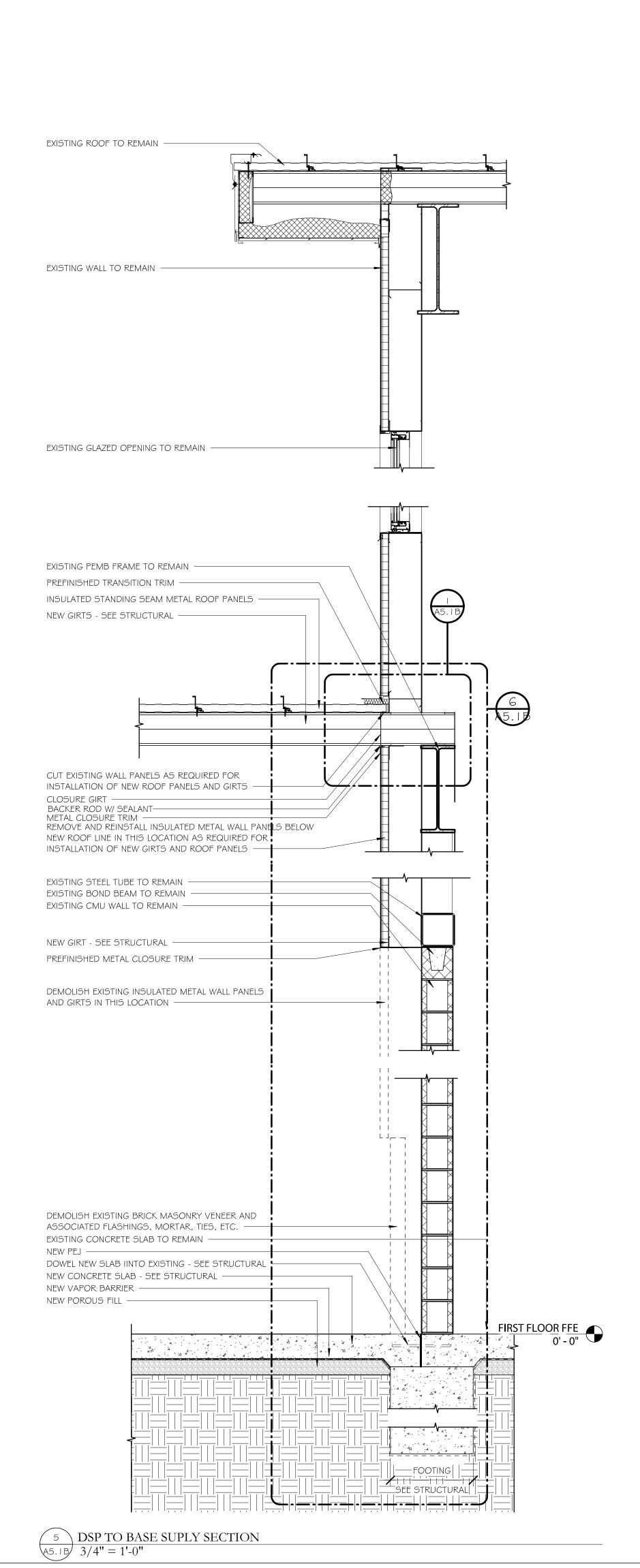


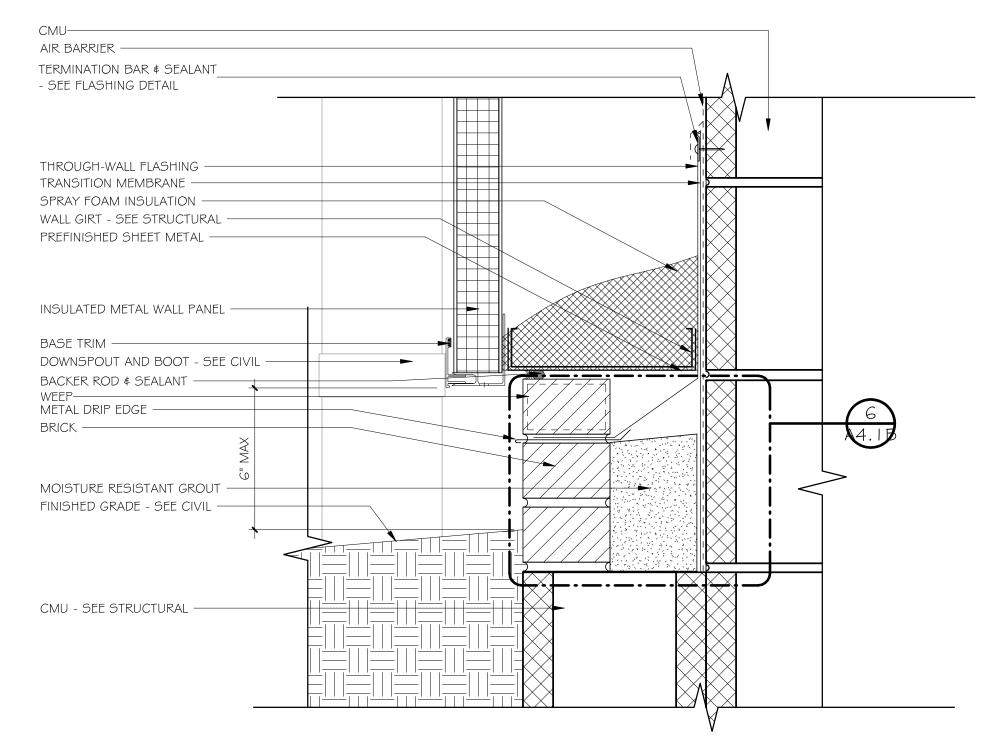
VENT AT STANDING SEAM METAL ROOF (INSULATED METAL ROOF SIMILAR) Copy 1

A5. | B 3" = 1'-0"

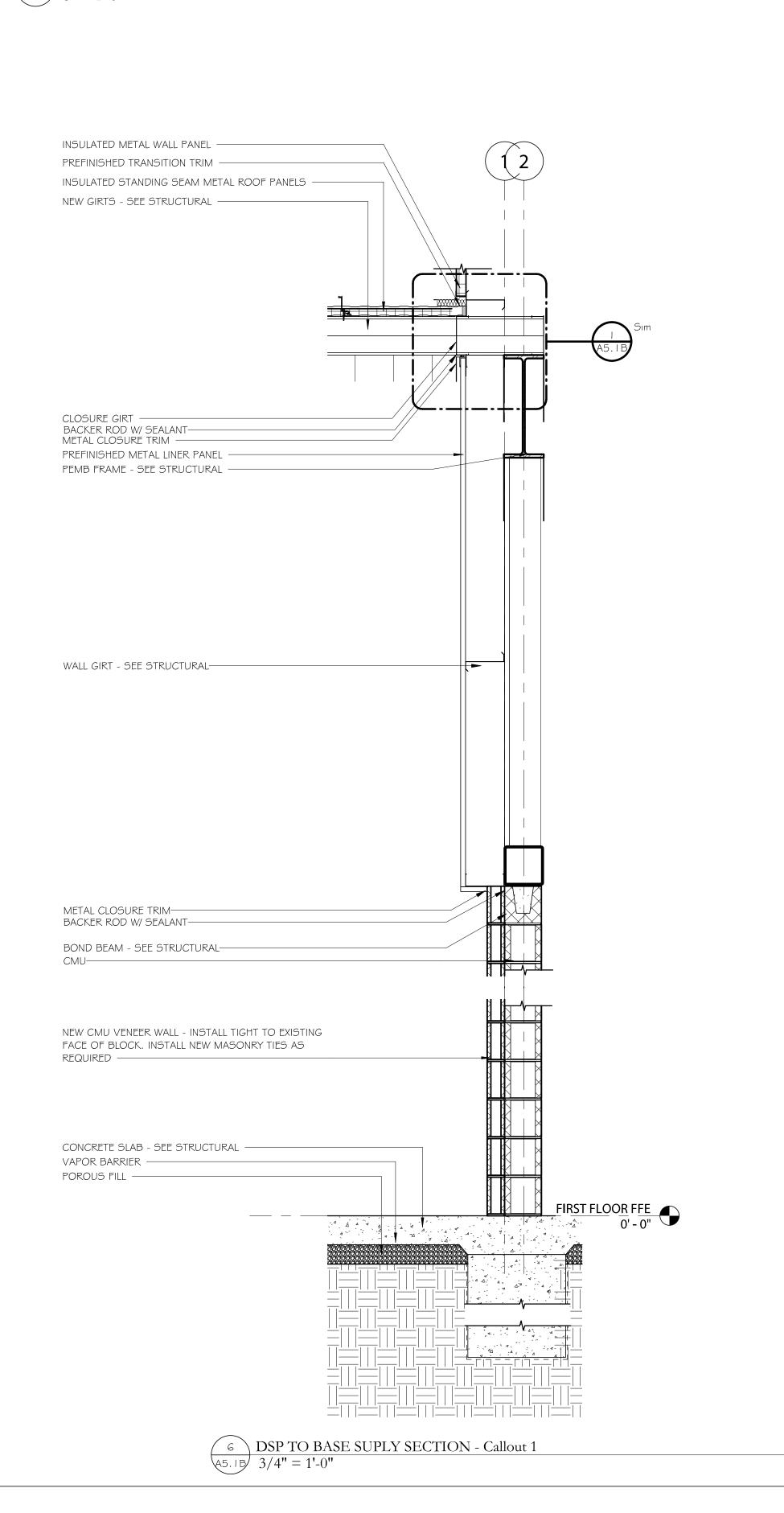


4 TYPICAL VTR DETAIL Copy 1
A5. | B 1 1/2" = 1'-0"





7 DSP METAL PANEL BASE DETAIL



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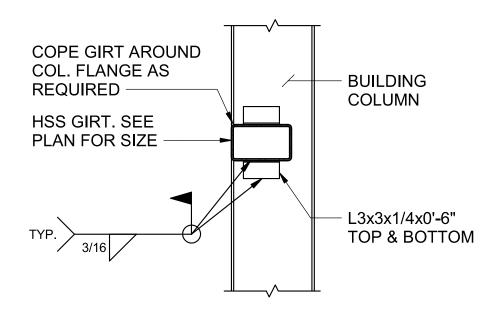
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WALL SECTIONS

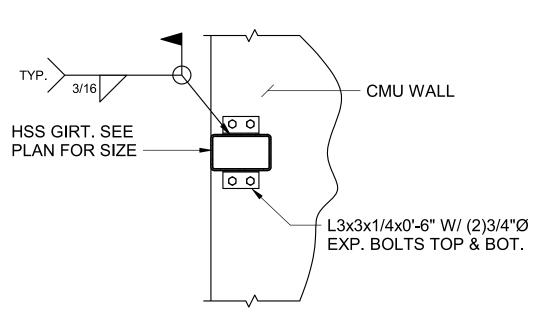
TYPICAL SLAB CONSTRUCTION JOINT DETAIL-(C.J.)

| NOTE: IF SAWED JOINTS ARE USED, JOINTS MUST BE SAWED SAME DAY AS SLAB POUR. W.W.F. | SAW CUT 1/8"x1" DEE SAWED JOINT. FILL JOINT W/ SEALANT. |
|--|---|
| \$\langle \times | |
| | |

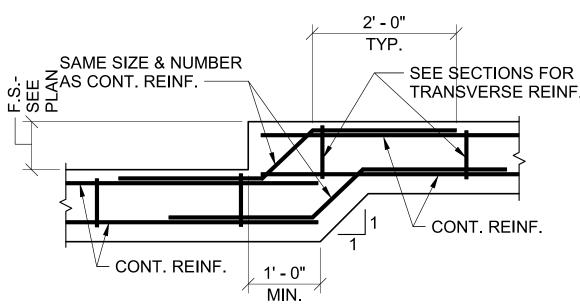
ALTERNATE SLAB CONSTRUCTION JOINT DETAIL (SAWED JOINT)



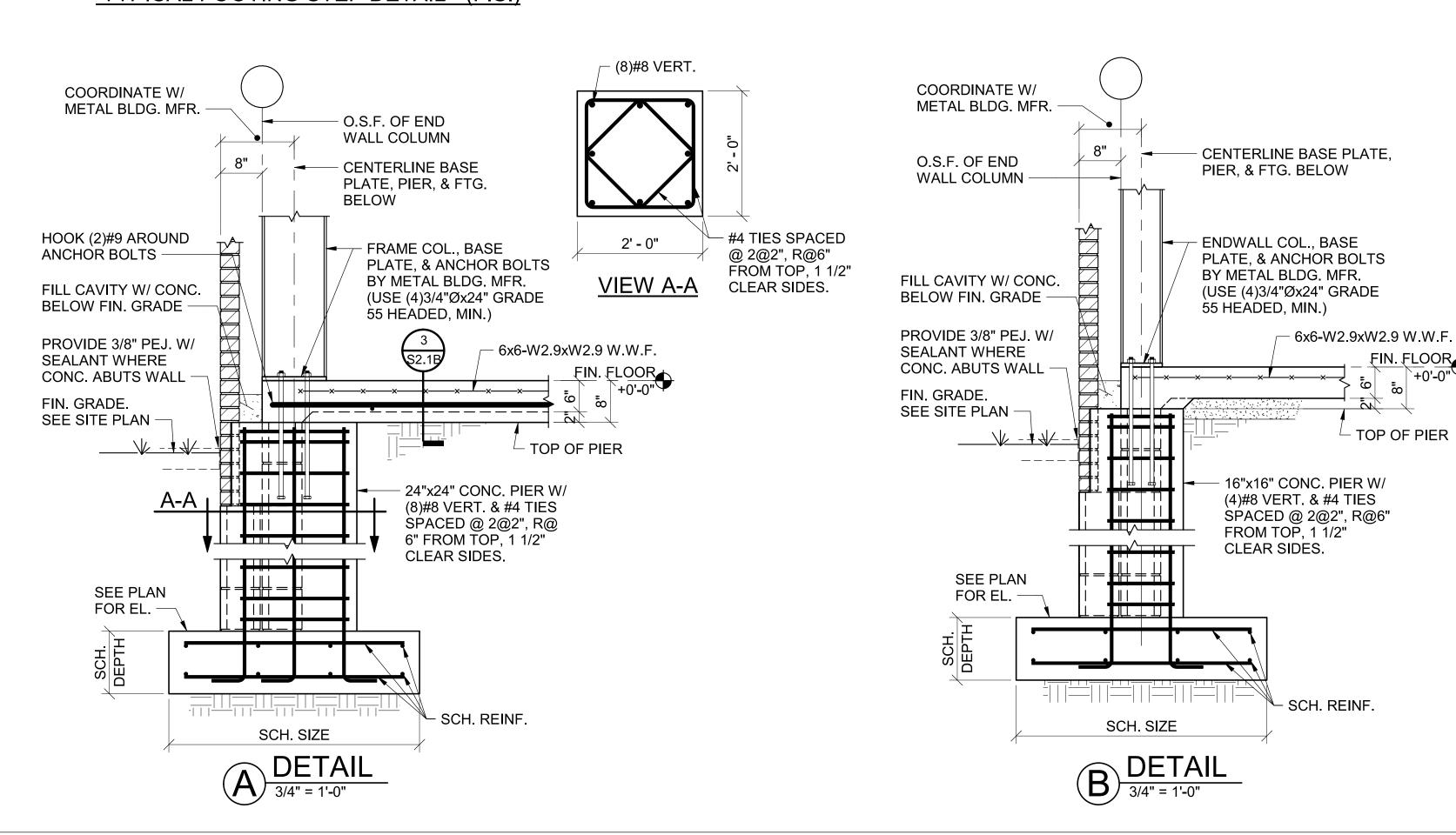
TYPICAL HSS GIRT TO BUILDING COLUMN DETAIL



TYPICAL HSS GIRT TO C.M.U. WALL DETAIL



TYPICAL FOOTING STEP DETAIL - (F.S.)



RAKE JOINT

SIMILAR @

WALL, TYP.

C.M.U. WALLS

VERT. REINF. SAME SIZE

AS WALL REINF. EA. SIDE

BRICK WHERE OCCURS

(@ EXTERIOR WALLS) -

CONT. HORIZ. MAS-

ONRY JOINT REINF.

@ 16"O.C., VERT. —

BARRIER UP WALL

___x___x___x____

SEE PLAN

8 FOR EL.

TO BREAK BOND

TURN VAPOR

OF M.C.J. FULL HT. OF

INTERIOR

CLEAN & CAULK -

CMU SASH BLOCK

- HARD RUBBER KEY MASONRY

CONTROL JOINT @ 25'-4" MAX.,

FULL HT. DISCONTINUE @ TOP &

BOT. OF U-BLOCK BOND BEAMS.

- FILL CELLS W/ CONC. FULL

HT. @ EA. VERT. BAR, TYP.

- CAULK JOINT

- #4 @ EA. JAMB & @

48"O.C., CENTERED. FILL

FULL HT. OF WALL ONLY @

CELLS SOLID W/ CONC.

6x6-W1.4xW1.4 W.W.F.

×——×——×—— 🚑

- FILL ALL CELLS

FIN. FLOOR

8" | 8" | 8" | BOT. W/ #4 @ 24"O.C.

W/ CONC. BELOW

- (2)#5 CONT. TOP &

TYPICAL MASONRY CONTROL JOINT (M.C.J.)

| | F | OOTING | SCHED | ULE - DPS |
|-----------|-------|--------|-------|------------------------------------|
| Type Mark | Width | Length | Depth | Reinforcing |
| | | | | |
| F-G | 6'-0" | 6'-0" | 1'-2" | (6)#4 E.W. TOP - (6)#5 E.W. BOT. |
| F-M | 8'-6" | 8'-6" | 1'-6" | (9)#5 E.W. TOP - (9)#6 E.W. BOT. |
| F-P | 9'-6" | 9'-6" | 1'-8" | (10)#5 E.W. TOP - (10)#6 E.W. BOT. |
| | | | | |

| Lintel Schedule - DPS | | | | | | | | |
|-----------------------|-----------|---------|------|-----------------|-----------------|--|--|--|
| Mark or Location | Max. Span | Туре | Size | Reinforcing | Remarks | | | |
| | | | | | | | | |
| 8" C.M.U. | 4'-0" | U-BLOCK | 8x16 | #5 TOP & BOTTOM | 8" HIGH U-BLOCK | | | |
| | | | | | | | | |

| | | Lint | el Sched | dule - DPS | |
|---------------------|-----------|---------|----------|-----------------|-----------------|
| Mark or Location | Max. Span | Туре | Size | Reinforcing | Remarks |
| | | | | | |
| 8" C.M.U. | 4'-0" | U-BLOCK | 8x16 | #5 TOP & BOTTOM | 8" HIGH U-BLOCK |
| | | | | | |

TOP OF PIER

- 1. THE BEARING STRATA OF ALL FOOTINGS AND GRADE BEAMS SHALL BE INSPECTED AND APPROVED BY THE SOILS TESTING LABORATORY PRIOR TO PLACING THE REINFORCING STEEL AND CONCRETE. 2. ALL FOOTINGS SHALL BEAR ON AN UNDISTURBED SOIL STRATA OR
- COMPACTED FILL CAPABLE OF SUSTAINING THE LOADS. 3. FOOTINGS WERE DESIGNED FOR AN ALLOWABLE SOIL BEARING OF P = 2500 PSF. THE TESTING AGENCY SHALL VERIFY THAT THE SOILS ARE
- CAPABLE OF SUSTAINING 2500 PSF PRIOR TO CONCRETE PLACEMENT. 4. ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO
- THE ARCHITECT AND/OR ENGINEER. 5. ALL FOOTING REINFORCEMENT SHALL BE HELD SECURELY FROM THE GROUND. CONCRETE BLOCK AND BROKEN TILE SHALL NOT BE USED. CONCRETE OR CLAY BRICK MAY BE USED. 6. DOWEL ALL FOOTINGS AND WALLS WHERE THEY ABUT WITH SAME STEEL
- AS VERTICAL. 7 PROVIDE PREFORMED EXPANSION JOINT WHERE SHOWN 8. IN FOOTINGS PROVIDE CORNER BARS AT ALL EXTERIOR BUILDING CORNERS.
- 9. DO NOT BACK FILL BEHIND FOUNDATION WALLS UNTIL TOP AND BOTTOM SLABS HAVE BEEN POURED AND ATTAINED THEIR DESIGN STRENGTHS. 10. BACK FILL BOTH SIDES OF FOUNDATION WALLS AT SAME TIME TO
- PREVENT OVERTURNING. 11. BACK FILL BEHIND ALL RETAINING WALLS AND BASEMENT WALLS SHALL BE AN APPROVED GRANULAR MATERIAL.
- 1. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH AT 28 DAYS OF F'c = 3000 PSI AND A MAXIMUM WATER-CEMENT RATIO OF 0.53.
- ALL CONCRETE FOR EXTERIOR APPLICATIONS SHALL CONTAIN ENTRAINED AIR. SEE SPECS FOR ADDITIONAL INFORMATION.
- 2. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064. 4. UNLESS NOTED OTHERWISE PROTECTIVE COVERING OF REINFORCEMENT SHALL BE AS FOLLOWS (SEE DETAILS): FOOTINGS AND GRADE BEAMS 3" CLEAR BOTTOM AND SIDES, 2" CLEAR TOP. CONCRETE SLABS
- 3/4" CLEAR, WALLS 1 1/2" CLEAR SIDES, BEAMS 1 1/2" CLEAR TO STIRRUPS. CONCRETE COLUMNS 1 1/2" CLEAR TO TIES. 5. LAP ALL CONCRETE WALL VERTICAL REINFORCING AND CONCRETE BEAM HORIZONTAL REINFORCING WITH CLASS B LAP SPLICES. LAP ALL OTHER
- 6. PLACING PLANS AND DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST "A.C.I. DETAILING MANUAL". 7. STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT

CONTINUOUS BARS WITH CLASS A SPLICES UNLESS NOTED OTHERWISE.

- AND/OR ENGINEER'S REVIEW. 8. DO NOT RUN CONDUITS, RACEWAYS, OR PIPES IN CONCRETE SLABS, BEAMS, OR COLUMNS WITHOUT SPECIFIC APPROVAL FROM BLACKBURN DANIELS O'BARR.
- MASONRY:

 1. PROVIDE MASONRY HORIZONTAL JOINT REINFORCEMENT 16" O.C. VERTICAL IN ALL CONCRETE BLOCK WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.
- 2. WHERE CONCRETE OR STEEL BEAMS BEAR ON CONCRETE BLOCK WALLS, BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1'-4" WIDE TO FOUNDATION AND REINFORCED WITH A #5 EACH CELL UNLESS NOTED OR DETAILED OTHERWISE. 3. CONCRETE OR GROUT FOR BLOCK FILL SHALL HAVE 3/8 INCH MAXIMUM SIZE COARSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE
- WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS. HEIGHT OF LIFT WHEN FILLING CELLS SHALL NOT EXCEED 4'-0". 4. CONCRETE OR GROUT FILL FOR C.M.U. SHALL HAVE A 28 DAY COMPRESSIVE
- STRENGTH OF F'c = 3000 PSI. ON 16" AND DEEPER U-BLOCKS, FILL CELLS FULL HEIGHT OF LINTEL AT SAME TIME. 5. ANCHOR ALL MASONRY WALLS TO STEEL COLUMNS WITH STRAP ANCHORS
- AT 16" O.C. VERTICALLY UNLESS SHOWN OTHERWISE. 6. UNLESS INDICATED OTHERWISE PROVIDE KEYED RUBBER MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 25'-4". JOINT SHALL BE DISCONTINUOUS AT BOND BEAM. 7. PROVIDE REINFORCING BAR SUPPORTS TO CENTER VERTICAL
- REINFORCING IN MASONRY WALLS. 8. PROVIDE 48 DIAMETER LAP SPLICE IN VERTICAL MASONRY REINFORCING. 9. PROVIDE CORNER BARS IN U-BLOCK BOND BEAMS AT CORNERS, TYPICAL.
- 10. ALL CMU SHALL BE PLACED IN A RUNNING BOND PATTERN UNLESS NOTED 11. VERTICAL REINFORCING SHALL BE CONTINUOUS THROUGH BOND BEAMS AND LINTELS (CUT OUT OR NOTCH BOTTOM OF U-BLOCKS AS REQUIRED -- DO NOT SUBSTITUTE BLOCK WITH KNOCK-OUT WEBS WHERE STANDARD U-BLOCK IS INDICATED). FOR BOND BEAMS AT TOP OF WALL, EXTEND VERTICAL

STRUCTURAL STEEL: 1. ALL STRUCTURAL STEEL W AND WT SHAPES SHALL CONFORM TO ASTM

REINFORCING TO 1" CLEAR TOP OF BOND BEAM.

- A992 (GRADE 50). OTHER SHAPES SHALL CONFORM TO ASTM, A36, LATEST EDITION (EXCEPT STEEL JOISTS AND TUBE SECTIONS). 2. STRUCTURAL STEEL TUBE SECTIONS SHALL CONFORM TO ASTM A500,
- GRADE B. Fv = 46.0 KSI. 3. HEADED STUDS SHALL BE TYPE B SHEAR CONNECTORS (Fu = 65 KSI).
- 4. STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR THE ARCHITECT AND/OR ENGINEER'S REVIEW.
- 5. THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWINGS DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.
- 6. BOLTED CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A325. USE 3/4 INCH DIAMETER MINIMUM. UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE TIGHTENED AS FULLY PRETENSIONED BEARING CONNECTIONS. 7. CONNECTIONS NOT SHOWN ON DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR. WHERE POSSIBLE USE DOUBLE ANGLE CONNECTIONS. USE MAXIMUM NUMBER OF BOLTS FOR DEPTH
- CONNECTIONS ARE NOT POSSIBLE, FABRICATOR SHALL DESIGN CONNECTION FOR CAPACITY EQUIVALENT TO DBL-ANGLE CONNECTION WITH MAX NO. BOLTS UNLESS DETAILED OTHERWISE 8. FOR DBL-ANGLE CONNECTIONS, MIN ANGLE THICKNESS SHALL BE 5/16"
- FOR 3/4 INCH DIAMETER BOLTS AND 3/8" FOR 7/8 INCH DIAMETER BOLTS AND LARGER. 9. UNLESS SHOWN OTHERWISE PROVIDE 1/2 X 7 1/2 X 7 1/2 BEARING

OF BEAM WITH SINGLE ROW OF BOLTS. WHERE DOUBLE ANGLE

- PLATES ON 1 INCH GROUT WITH 2-3/4" DIAMETER ANCHOR BOLTS UNDER ALL STEEL BEAMS THAT BEAR ON MASONRY WALLS.
- 10. OPEN WEB STEEL JOIST SHALL CONFORM TO THE SPECIFICATIONS OF THE AISC AND SJI AND TO THE LATEST OSHA STEEL ERECTION STANDARD.
- 11. UNLESS SHOWN OTHERWISE PROVIDE BRIDGING, BEARING SEATS, AND STABILIZER PLATES IN ACCORDANCE WITH ABOVE SPECIFICATIONS AND
- 12. ALL BRIDGING SHALL BE SECURELY ANCHORED AT END OF EACH RUN. WELD TO STEEL BEAM OR ANCHOR TO MASONRY WALL WITH 3/8 " ANCHOR BOLTS.
- 13. WHERE JOISTS CAN NOT BEAR 2 1/2 INCHES ON STEEL BEAMS, STAGGER LOCATION OF JOISTS TO PROVIDE 2 1/2 INCHES MINIMUM
- 14. ROOF JOISTS AND BRIDGING SHALL BE DESIGNED FOR A NET UPLIFT OF 15 PSF. SHELTER ROOF JOISTS SHALL HAVE A MINIMUM TOP CHORD
- THICKNESS OF 1/4". 15. ANY MEMBER CALLED OUT TO BE BENT TO RADIUS SHALL BE FABRICATED OUT OF PLATE WITH EQUIVALENT SECTION PROPERTIES IF BENDING TO RADIUS IS IMPRACTCAL.

GENERAL NOTES

- PRE-ENGINEERED METAL BUILDING:

 1. THE COMPLETE DESIGN OF METAL BUILDING INCLUDING ALL COMPONENTS SHOWN OR NOT SHOWN ON THE DRAWINGS SHALL BE ACCOMPLISHED BY THE BUILDING MANUFACTURER. 2. THE DESIGN SHALL BE MADE BY A REGISTERED ENGINEER, REGISTERED IN THE STATE OF ALABAMA AND HE SHALL AFFIX HIS REGISTRATION NUMBER TO ALL SHOP DRAWINGS AND CALCULATIONS.
- 3. THE BUILDING AND ALL OF ITS COMPONENTS SHALL BE DESIGNED FOR THE FOLLOWING DEAD AND LIVE LOADS; a.) ACTUAL WEIGHT OF STEEL STRUCTURE. b.) 10 PSF DEAD (COLLATERAL) LOAD IN ADDITION TO ACTUAL WEIGHT OF
- STRUCTURE AND ROOFING MATERIALS. c.) 20 PSF ROOF LIVE LOAD. d.) ANY ADDITIONAL LOADS AND REACTIONS THAT ARE SHOWN ON THE DRAWINGS
- e.) WIND LOADING AS REQUIRED BY INTERNATIONAL BUILDING CODE. 4. NO LIVE LOAD REDUCTION SHALL BE TAKEN FOR THE DESIGN OF THE RIGID FRAMES. 5. WHERE MEMBER SIZES AND GAGES ARE SHOWN THEY SHALL BE CONSIDERED A MINIMUM SIZE. THE MANUFACTURER SHALL NOT USE
- SMALLER SIZE OR LIGHTER GAGES. OR OMIT FRAMING WHERE INDICATED. HE SHALL USE ONLY LARGER SIZE AND HEAVIER GAGES IF HIS DESIGN INDICATES THESE ARE REQUIRED TO MEET THE LOADING CRITERIA 6. THE DEFLECTION OF GIRTS SHALL BE LIMITED TO 1/240 OF THE SPAN
- AND DEFLECTION OF PURLINS SHALL BE LIMITED TO 1/240 OF THE SPAN. DEFLECTION OF RIGID FRAMES AND END WALL COLUMNS SHALL BE LIMITED TO 1/240 OF THE SPAN. DEFLECTIONS SHALL BE BASED ON TOTAL LOAD (DEAD PLUS LIVE LOADS). TOTAL RIGID FRAME DRIFT SHALL BE LIMITED TO
- H/240, WHERE H IS EQUAL TO THE EAVE HEIGHT. 7. COLUMN BASES SHALL BE DESIGNED AS PINNED CONNECTIONS. MOMENTS AT COLUMN BASE PLATES ARE NOT ACCEPTABLE. 8. LOCATE PORTAL FRAMES ONLY WHERE INDICATED ON PLAN. PORTAL FRAME COLUMNS SHALL BE NESTED TIGHT TO WEB OF RIGID FRAME COLUMN.

COLD-FORMED STEEL STUDS: 1. PROVIDE COLD FORMED STEEL STUDS WHERE INDICATED ON THE PLAN.

- ALL SIZES AND GAGES SHOWN SHALL BE CONSIDERED MINIMUM. 2. LIGHT STEEL GALVANIZED (G-60) METAL STUDS, OF SIZES SHOWN COMPLETE WITH ALL ACCESSORIES REQUIRED. 16 GA AND HEAVIER
- MEMBERS SHALL MEET ASTM A-1003/A1003M, GRADE D WITH 50 KSI 3. PROVIDE SHOP DRAWINGS PREPARED BY COLD FORMED METAL FRAMING MANUFACTURER. SUBMIT FOR APPROVAL SHOWING PLANS, SECTIONS, ELEVATIONS, LAYOUTS, PROFILES, PRODUCT COMPONENTS, AND INDICATING SPACING OF MEMBERS, PROPOSED METHODS OF FRAMING LINTELS. DOORWAY FRAMING, ETC. SHOW CONNECTION DETAILS WITH SCREW TYPE AND LOCATIONS AND ALL OTHER FASTENER REQUIREMENTS. INCLUDE
- CATALOG DATA ON ALL PRODUCT MATERIAL 4. MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND DESIGN CAL-CULATIONS INCLUDING ALL CONNNECTIONS. DESIGNS SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, REGISTERED IN THE
- STATE OF ALABAMA. 5. MINIMUM CONNECTION OF THE TRACK TO THE FOUNDATION SHALL BE (2)-0.157IN DIAMETER X 1-1/2" EMBEDMENT HILTI X-U ANCHORS AT EACH STUD. FOLLOW ALL MANUFACTURERS RECOMMENDED EDGE DISTANCES AND SPACING REQUIREMENTS.
- ALL PARTS SHALL BE FURNISHED AND ERECTED ACCORDING TO THE APPLICABLE CODES AND SPECIFICATIONS OF THE FOLLOWING: AMERICAN CONCRETE INSTITUTE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) AMERICAN WELDING SOCIETY OSHA STEEL ERECTION STANDARD (OSHA) STEEL JOIST INSTITUTE

INTERNATIONAL BUILDING CODE (IBC 2015) (ICC) DESIGN LIVE LOADS: ROOF......20 PSF.

MEZZANINE.. 150 PSF

- OFFICES.... RISK CATEGORY (PER IBC 2015/ASCE 7-10)......II WIND......INTERNATIONAL BUILDING CODE (PER ASCE 7-10) ULTIMATE DESIGN WIND SPEED (Vult).......115 MPH NOMINAL DESIGN WIND SPEED (Vasd)......90 MPH
- WIND EXPOSURE... INTERNAL PRESSURE COEFFICIENTS.....+/-0.18 COMPONENTS AND CLADDING ULTIMATE WIND PRESSURES: NOTE: MULTIPLY ALL VALUES SHOWN BELOW BY 0.6 TO GET ALLOWABLE DESIGN PRESSURES.
 - ROOF:TRIBUTARY AREA A = 10 SF ZONE 1: -49.7PSF/31.3PSF ZONE 2: -86.5PSF/31.3PSF ZONE 3: -128.0PSF/31.3PSF

WALL:TRIBUTARY AREA A = 10 SF

- ZONE 4: -58.9PSF/54.3PSF ZONE 5: -72.7PSF/54.3PSF CORNER ZONE = 5 FT SEISMIC....INTERNATIONAL BUILDING CODE (PER ASCE 7-10) SEISMIC IMPORTANCE FACTOR.....le=1.0
- MAPPED SPECTRAL ACCELERATION (SHORT-TERM).Ss=0.134 MAPPED SPECTRAL ACCELERATION (1-SECOND)...S1=0.075 SITE CLASS.... SHORT-PERIOD SPECTRAL RESPONSE ACCEL......Sds=0.107g 1-SECOND SPECTRAL RESPONSE ACCEL.....Sd1=0.085g
- SEISMIC DESIGN CATEGORY.....B SEISMIC FORCE-RESISTING SYSTEM.....STEEL FRAME NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE DESIGN BASE SHEAR (ULTIMATE).....35k
- SEISMIC RESPONSE COEFFICIENT......Cs=0.035 RESPONSE MODIFICATION FACTOR.....R=3 ANALYSIS PROCEDURE.....ASCE 7 (SECT 12.8)
- SNOW......INTERNATIONAL BUILDING CODE GROUND SNOW LOAD......Pg=5 PSF SPECIAL INSPECTIONS
- ALL SPECIAL INSPECTIONS REQUIRED BY CHAPTER 17 OF THE IBC 2015 SHALL PERFORMED BY A DESIGNATED TESTING EGENCY OR AGENCIES RESPONSIBLE

FOR SPECIAL INSPECTIONS. <u>SEISMIC REQUIREMENTS FOR SPECIAL INSPECTIONS</u> THE FOLLOWING STRUCTURAL COMPONENTS ARE DESIGNATED AS SEISMIC SYSTEMS AND/OR PART OF THE SEISMIC-FORCE-RESISTING SYSTEM OF THE

- BUILDING AND ARE SUBJECT TO THE REQUIREMENTS OF SECTIONS 1705.12 AND 1705.13 OF IBC 2015 AND PROJECT SPECIFICATIONS: X-BRACING
- PRE-ENG TRUSSES AND TRUSS-COLUMN CONNECTIONS SHEAR WALLS (INCL. ANCHORAGE TO FOUNDATION) THESE SPECIFIC COMPONENTS ARE IN ADDITION TO ALL GENERAL COMPONENTS LISTED IN SECTIONS 1705.12 AND 1705.13 OF IBC 2015 AND ARE SUBJECT TO ALL SPECIAL INSPECTIONS AND TESTING AS REQUIRED BY CHAPTER 17 OF
- SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED AS PER THE STATEMENT OF SPECIAL INSPECTIONS. 2. OTHER ARCHITECTURAL, MECHANICAL, OR ELECTRICAL COMPONENTS

IBC 2015, PROJECT SPECIFICATIONS, AND SCHEDULE OF SPECIAL INSPECTIONS.

- AND THEIR ANCHORAGES MAY ALSO BE DESIGNATED AS SEISMIC SYSTEMS. SEE OTHER DISCIPLINE'S DRAWINGS AND SPECIFICATIONS. 3. ALL SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE IBC 2015 SHALL BY PERFORMED. REFER TO TABLES SHOWN IN CHAPTER 17 FOR ALL APPLICABLE COMPONENTS THAT REQUIRE SPECIAL INSPECTIONS.
- WIND REQUIREMENTS FOR SPECIAL INSPECTIONS THE FOLLOWING STRUCTURAL COMPONENTS ARE DESIGNATED AS WIND SYSTEMS AND/OR PART OF THE MAIN WINDFORCE-RESISTING SYSTEM OF THE BUILDING AND ARE SUBJECT TO THE REQUIREMENTS OF SECTION 1705.11 OF IBC 2015 AND PROJECT SPECIFICATIONS:
- ROOF DIAPHRAGM SYSTEM AND ATTACHMENT LOAD-BEARING CMU (SHEAR) WALLS JOIST CONNECTIONS TO SHEAR WALLS SHEAR WALL ANCHORAGE TO FOUNDATION
- THESE SPECIFIC COMPONENTS ARE IN ADDITION TO ALL GENERAL COMPONENTS LISTED IN SECTION 1705.11 OF IBC 2015 AND ARE SUBJECT TO ALL SPECIAL INSPECTIONS AND TESTING AS REQUIRED BY CHAPTER 17 OF IBC 2015. PROJECT SPECIFICATIONS, AND SCHEDULE OF SPECIAL INSPECTIONS. SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED AS PER THE STATEMENT OF SPECIAL INSPECTIONS.
- 2. OTHER ARCHITECTURAL COMPONENTS AND THEIR ANCHORAGES MAY ALSO BE DESIGNATED AS WIND-RESISTING COMPONENTS. SEE OTHER DISCIPLINE'S DRAWINGS AND SPECIFICATIONS.
- 3. ALL SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE IBC 2015 SHALL BY PERFORMED. REFER TO TABLES SHOWN IN CHAPTER 17 FOR ALL APPLICABLE COMPONENTS THAT REQUIRE SPECIAL INSPECTIONS.

DEPL Sheet Title GENERAL NOTES -SCHEDULES -

Rev. Description Date

19084

10 April 2025

Job Number

Drawn By

Checked By

Project Title

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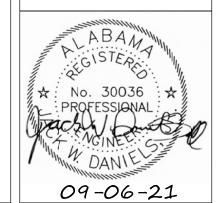
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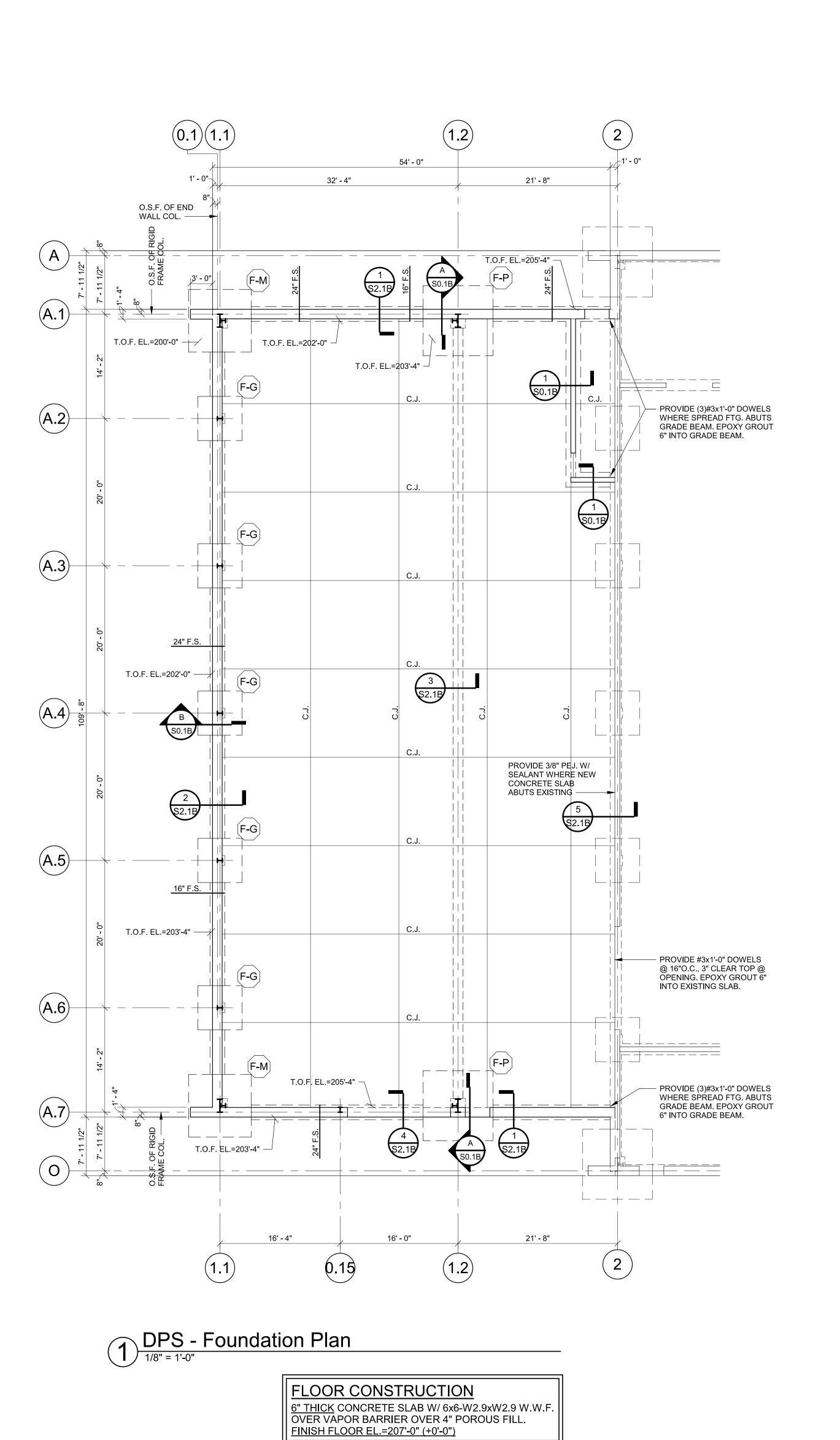
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Sheet Number S0.1B

TYPICAL DETAILS -

DPS STORAGE





O.S.F. OF END WALL COL. CONT. EAVE STRUT HSS8x8x1/4 GIRT LOW PORTAL WIND FRAME 18K5 LOW @ 24"O.C., MAX. -(A.2) HORIZONTAL X-BRACING AS REQUIRED BY METAL BLDG. MANUFACTURER (A.3)(A.4) SUSPENDED FAN _ BELOW - 500# MAX. PRE-ENG. METAL BLDG. MANUFACTURER (A.5) _PROVIDE ADD'L. FRAMING AS REQUIRED. CONT. BRIDGING AS REQUIRED BY METAL BLDG. MFR, TYP. _____ PORTAL WIND FRAME HSS8x8x1/4 GIRT LOW ISS8x8x1/4 GIRT LOW $oxedsymbol{oxedsymbol{oxedsight}}$ CONT. EAVE STRUT

54' - 0"

32' - 4"

21' - 8"

2 DPS - Roof Framing Plan

1/8" = 1'-0"

Job Number 19084

Rev. Description Date

10 April 2025 Drawn By

Checked By

Project Title

MEZZANINE FLOOR

FOLLOWING MINIMUM SECTION

PROPERTIES PER FOOT OF WIDTH:

3" THICK NORMAL WEIGHT CONCRETE SLAB W/ 6x6-W2.1xW2.1 W.W.F., 3/4" CLEAR TOP,

S+=0.036 IN³. S-=0.037 IN³. I=0.011 IN⁴.

OVER STANDARD GALVANIZED, 28 GAGE

STEEL FORM DECK (3" TOTAL), W/ THE

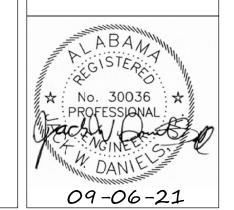
CONSTRUCTION

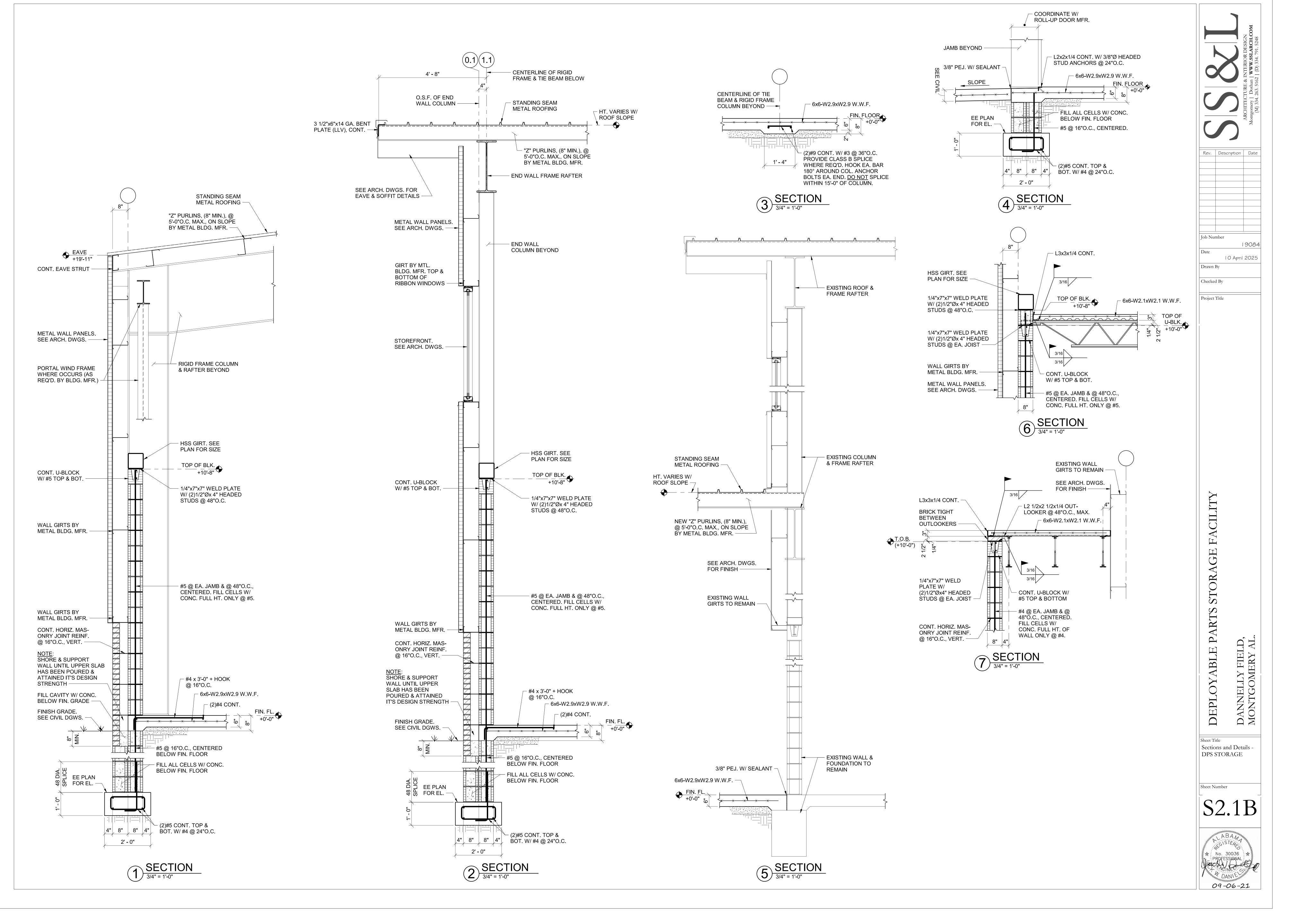
Sheet Title FOUNDATION &

Sheet Number S1.1B

ROOF FRAMING

PLANS - DPS STORAGE





10 April 2025

LEGEND — F — FIRE SPRINKLER PIPING

2700

2400

2100

FLOW: G.P.M.

NOTE: WATER FOR REQUIRED HOSE ALLOWANCES SHALL BE PROVIDED THROUGH FIRE HYDRANTS CONNECTED TO UNDERGROUND WATER MAIN NOT BOOSTED BY FIRE PUMP SYSTEM

and is therefore not included in the estimated sprinkler system demand shown in these hydraulic calculations.

F → F → EXISTING PIPING TO REMAIN CONNECT TO EXISTING WET PIPE SYSTEM CONTROL ASSEMBLY ---- SPRINKLER SYSTEM ZONE BOUNDARY NOTE LEGEND NUMBER

UFC UNIFIED FACILITIES CRITERIA DUCTILE IRON PIPE MECHANICAL JOINT

 FIRE DEPARTMENT CONNECTION UG UNDERGROUND GPM - GALLONS PER MINUTE

 POUNDS PER SQUARE INCH SQUARE FEET UNDERWRITERS LABORATORY

FACTORY MUTUAL

FIRE SPRINKLER CONTRACTOR SHALL BE LICENSED THROUGH THE OFFICE OF THE STATE OF ALABAMA FIRE MARSHAL 2. SEE SPECIFICATIONS FOR SPRINKLER OCCUPANCY HAZARD

MINIMUM AREA REQUIREMENTS, AND HOSE STREAM DEMAND REQUIREMENTS. 3. ALL WET SYSTEM FIRE SPRINKLER PIPING SHALL BE INSTALLED WITHIN

CLASSIFICATIONS, SPRINKLER DENSITY REQUIREMENTS, SPRINKLER

BUILDING INSULATION ENVELOPE. SEE ARCHITECTURAL PLANS FOR THE LOCATION AND EXTENT OF THE BUILDING INSULATION ENVELOPE. 4. ALL TAMPER SWITCHES, FLOW SWITCHES, AND ALARM HORN / STROBE, SHALL BE FURNISHED AND INSTALLED BY THE FIRE SPRINKLER

CONTRACTOR. REQUIRED ELECTRICAL CONNECTIONS, AND CONNECTIONS TO THE BUILDING FIRE ALARM SYSTEM, SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. ALL FLOW AND TAMPER SWITCHES SHALL BE CONNECTED TO A CONSTANTLY MONITORED LOCATION. PROVIDE SURGE PROTECTIONS DEVICES (SPDS) FOR COMMUNICATION EQUIPMENT AND SPECIALIZED ELECTRICAL EQUIPMENT SUCH FIRE ALARM AND DETECTION SYSTEMS (ANTENNAS), ELECTRICAL POWER FOR FIRE ALARM CONTROL PANELS (FACP) AND MASS NOTIFICATIONS SYSTEMS (MNS) ARE AREAS OF REQUIREMENT OF AFI 32-1065 AND NFA 780. SPDS SHALL BE UL1283 AND UL1449 RATED.

. NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL EQUIPMENT AND/OR DATA EQUIPMENT. MAINTAIN ALL REQUIRED CLEARANCES. 6. ALL EXPOSED SPRINKLER PIPING SHALL BE INSTALLED AS HIGH AS

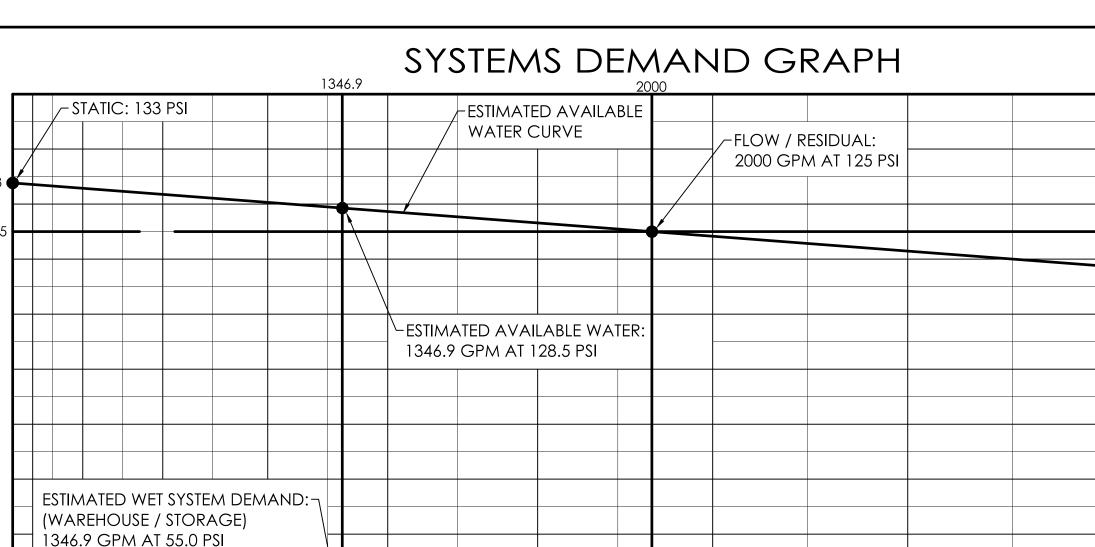
THESE DRAWINGS ARE FOR ENGINEERING INTENT ONLY. FOR NEW OR MODIFIED SYSTEMS, WORKING (SHOP) DRAWINGS AND CALCULATIONS MUST BE PREPARED BY A QUALIFIED FIRE PROTEC TION ENGINEER (QFPE) THAT HAS OBTAINED NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES, AUTOMATIC SPRINKLER SYSTEMS, LEVEL III CERTIFICATION OR SPECIAL HAZARDS SUPPRESSION SYSTEMS LEVEL IV CERTIFICATION, AS APPLICABLE TO THE PROJECT. THE QUALIFIED FIRE PROTECTION ENGINEER (QFPE) MUST REVIEW THE SHOP DRAWINGS, HYDRAULIC CALCULATIONS AND MATERIAL SUBMITTALS. THE SHOP DRAWINGS MUST BEAR THE REVIEW STAMP OF THE QFPE PRIOR TO

SUBMITTING THE FIRE EXTINGUISHING SYSTEM SHOP DRAWINGS TO THE

DESIGNATED FIRE PROTECTION ENGINEER (DFPE). 8. BRAND NAMES AND MODEL NUMBERS ARE GIVEN FOR ILLUSTRATIVE PURPOSES ONLY. EQUIPMENT, FULFILLING REQUIREMENTS OF THE PLANS

AND SPECIFICATIONS, MAY BE SUBMITTED FOR REVIEW AND APPROVAL. 9. THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE A "STATEMENT OF COMPLIANCE" TO THE AUTHORITY HAVING JURISDICTION (AHJ) BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, AS PER SECTION 901.2.1 IN THE INTERNATIONAL FIRE CODE, 2015 EDITION.

10. A COPY OF AS-BUILT DRAWINGS, MANUFACTURER'S OPERATION AND MAINTENANCE LITERATURE, AND NFPA 25 SHALL BE PROVIDED TO THE OWNER AS A PART OF THE SYSTEMS ACCEPTANCE.



ESTIMATED SPRINKLER DEMAND FLOW (GPM) ESTIMATED PSI REQUIREMENT SPRINKLER DEMAND: END HEAD PRESSURE: 15 PSI = 97.6 GPM 25.2 **7** 15 13.0 PSI **ELEVATION:** 97.6 GPM X 12 HEADS = 1171.2 GPM PIPING LOSS: 10.0 PSI 1171.2 GPM X 1.15 (SAFETY FACTOR) = 1346.9 GPM BACKFLOW LOSS: SAFETY FACTOR: 5.0 PSI = 1346.9 GPM MINIMUM PSI REQUIREMENT: TOTAL GPM:

FIRE SPRINKLER CALCULATION

STORAGE WAREHOUSE AREA

UFC 3-600-01 (2016, CHANGE 5) / NFPA 13 (2016) |

(25' RACK STORAGE - PLASTICS - 30' ROOF)

12 ESFR HEADS - 25.2K - AT 15 PSI

NOTE: CALCS BASED ON NFPA 13 (2013) - CHAPTER 17 - TABLE 17.2.3.1 - NO OPEN TOP CONTAINERS - CARTONED, NONEXPANDED.

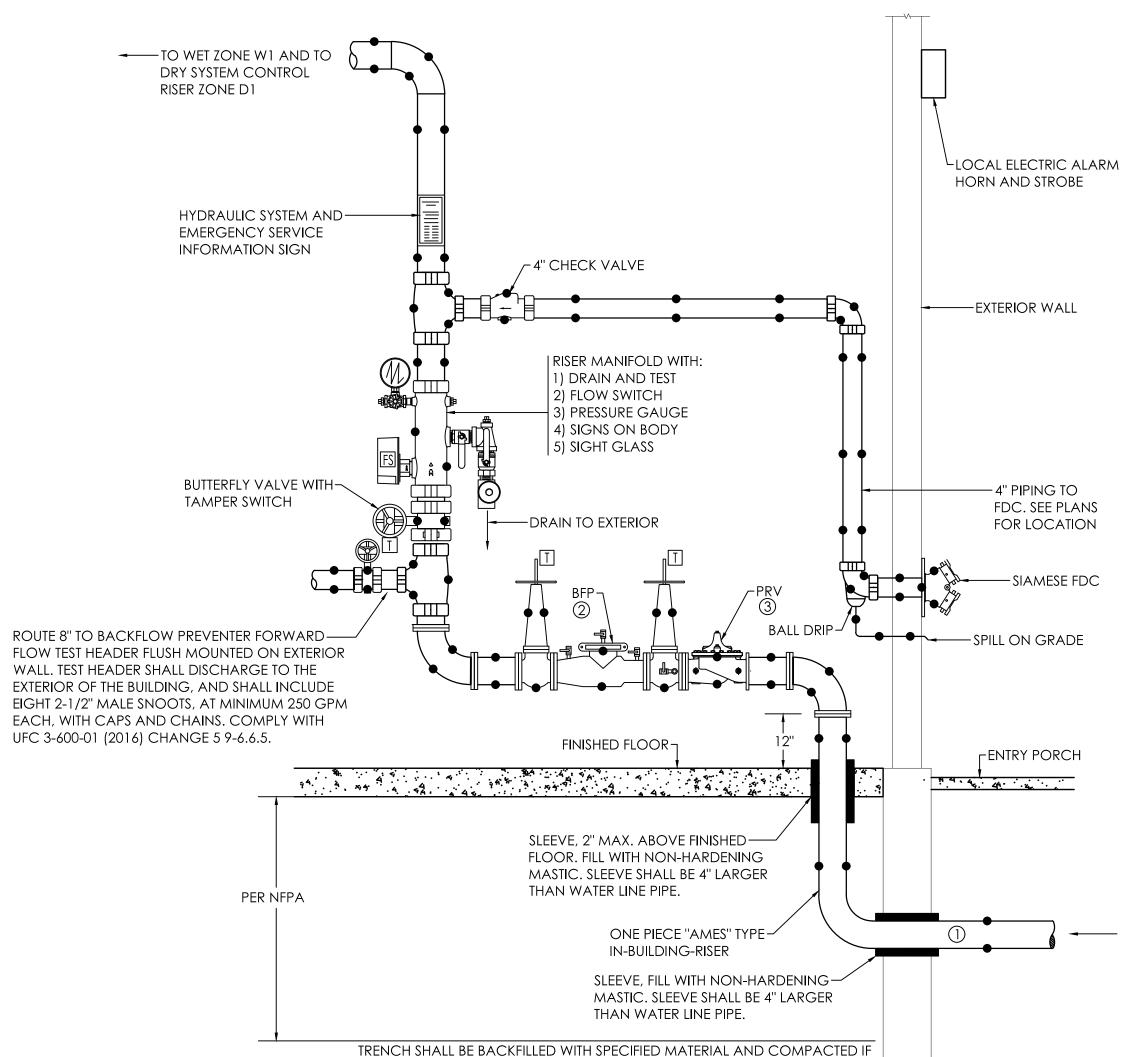
ESTIMATED AVAILABLE **WATER DATA:**

BASED ON CERTIFICATION OF EXISTING FIRE PUMPS BY "HYDRO TECHNOLOGIES". THE EXISTING BASE FIRE PUMP SYSTEM PROVIDES AND MAINTAINS THE AVAILABLE WATER TO BE USED IN THE EXISTING BASE SUPPLY BUILDING FIRE SPRINKLER SYSTEM

STATIC: 133 PSI * FLOW: 2000 GPM * RESIDUAL: 125 PSI * NOTE: SPRINKLER CONTRACTOR SHALL CONDUCT THEIR OWN FLOW TEST FOR CURRENT INFORMATION. LISTED STATIC PRESSURE, FLOW, AND RESIDUAL PRESSURE ARE AND THE NEW DPS BUILDING SYSTEM.

> SPRINKLER SYSTEMS SCHEDULE DENSITY | CALCULATED | GPM HOSE | TYPE OF ROOM OR AREA CLASSIFICATION AREA / SF | ALLOWANCE | SPRINKLER WAREHOUSE AND STORAGE AREAS 1200 500 25.2 ESFR **CLASS IV** SIZES NOT SHOWN SHALL BE PER SPRINKLER CONTRACTOR'S HYDRAULIC CALCULATIONS. . PROVIDE EXPOSED SPRINKLERS AT ALL AREAS WITHOUT FINISHED CEILINGS. (ROUGH BRASS)

. USE OF FLEXIBLE ARMOVERS IS NOT ALLOWED UNLESS APPROVED BY THE AUTHORITY HAVING JURISDICTION.



FIRE SERVICE ENTRANCE AND CONTROL RISER (CONTROL VALVE RISER - ZONE W1)

NOTE LEGEND: (THIS DETAIL ONLY)

1. STAINLESS STEEL EXTENDED 90° FITTING.

2. 8" DUAL CHECK BACKFLOW PREVENTER WITH OS&Y INDICATING GATE VALVES WITH TAMPER SWITCHES. 3. 8" FIRE PROTECTION PRESSURE REDUCING VALVE.

GENERAL SPRINKLER NOTES

FIRE PROTECTION SYSTEM SHALL BE A WET PIPE SYSTEM, AND SHALL COMPLY WITH "UFC 3-600-01" (2016, CHANGE 5), "UFC 4-440-01" (2014, CHANGE 1), "NFPA 13" (2016), AND INTERNATIONAL BUILDING CODE (2018).

DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH "UFC 3-600-01" (2016,

- OCCUPANCY CLASSIFICATION SHALL BE PER "UFC 3-600-01" (2016, CHANGE 5).
- 4. SYSTEMS SHALL BE INTERFACED WITH BUILDING ALARM SYSTEM

FIRE SPRINKLER CONTRACTOR SHALL INSTALL PIPING, IN WAREHOUS

AREAS, AS REQUIRED TO PROVIDE COMPLETE PROTECTION OF ALL

FROM THE CENTER OF ISLES, SO AS NOT TO INTERFERE WITH REQUIRE

LIGHTING. STORAGE AREAS SHALL BE PROTECTED TO A MAXIMUM

PROTECTION OF STORAGE AREAS SHALL BE PROVIDED USING "ESFR"

BUILT-IN SLEEVE WITH-

FIRE STOP SEALANT

┏━━━━━┃━━━━━━━━━\-。---

"**----**

BUILT-IN SLEEVE WITH-

(#) NOTE LEGEND: (THIS SHEET ONLY)

INSIDE BASE SUPPLY BUILDING.

WHEN SPRINKLER SYSTEM IS ACTIVATED.

FIRE STOP SEALANT AND ESCUTCHEON\$

AND ESCUTCHEONS

 $rac{1}{2}$ EXISTING STUB-OUT \lnot

EXISTING CONTROL

RISER SERVING **BASE SUPPLY AND**

EXISTING STUB-OUT FOR DPS BUILDING

EXISTING ALARM— HORN AND STROBE

FIRE SPRINKLER FLOOR PLAN

1. TEMPERATURE IN THIS AREA MUST BE MAINTAINED AT A MINIMUM OF 40° F. SUPPLEMENTAL HEAT SHALL BE PROVIDED BY THE MECHANICAL

3. REMOVE CAP AND MAKE FINAL CONNECTION TO EXISTING STUB-OUT

4. PROVIDE CEILING MOUNTED SPRINKLERS IN CORRIDOR. AREA ABOVE

5. COORDINATE SPRINKLER HEADS WITH HVLS FAN. HVLS FAN SHALL STOP

CORRIDOR SHALL BE PROTECTED BY ESFR SPRINKLERS LOCATED AT ROOF

2. FIRE SPRINKLER FEED MAIN. ROUTE AS HIGH AS POSSIBLE.

EXISTING FDC -

EXISTING TEST HEADER

-EXISTING WET PIPE SPRINKLER SYSTEM FEED MAIN SERVING

BASE SUPPLY. FIELD VERIFY

EXACT LOCATION.

—**→** F — **→** F — **→** S

-EXISTING UNDERGROUND

WATER SERVICE FEEDING

BASE SUPPLY AND NEW

FOR DPS BUILDING

SPRINKLERS. MINIMUM TEMPERATURE RATING OF SPRINKLERS IN

HEIGHT OF 30'-0" AFF, BASED ON PLASTICS COMMODITIES

WAREHOUSE AREAS SHALL BE 150° F.

NEW DPS WET PIPE SPRINKLER ──■

ZONE BOUNDARY

- ROUTE PIPING TO MINIMIZE OBSTRUCTION TO OTHER WORK. BUILDING SHALL BE SUPERVISED PER "UFC 3-600-01" (2016, CHANGE 5).
- THE SPRINKLER CONTRACTOR SHALL DESIGN AND INSTALL AN APPROVED, COMPLETE, OPERATIONAL SPRINKLER SYSTEM. PROVIDE COVERAGE TO ENTIRE AREA INCLUDING OVERHANGS. SYSTEM SHALL MEET ALL APPLICABLE CODES AND ORDINANCES.
- COORDINATE HEADS WITH LIGHTS, MECHANICAL EQUIPMENT, CEILING SYSTEMS, ETC. CUTTING OF STRUCTURAL AND / OR ARCHITECTURAL MEMBERS SHALL BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT.
- CONTRACTOR SHALL PROVIDE OFFSETS AS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND / OR TO MAINTAIN PROPER CLEARANCES. VERIFY STRUCTURAL, MECHANICAL, AND ELECTRICAL INSTALLATIONS AND AVOID ANY / ALL OBSTRUCTIONS OR INTERFERENCES WITH FIRE PROTECTION PIPE ROUTING, AND/OR SPRINKLER LOCATIONS.
- D. ALL WALL AND FLOOR PENETRATIONS FOR FIRE PROTECTION PIPING SHALL BE FULLY SLEEVED AND SEALED. FIRE STOP ALL PENETRATIONS OF SMOKE / FIRE WALLS, CEILINGS, FLOORS, ROOFS, ETC. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FIRE RATED
- . PROVIDE STOCK OF EXTRA SPRINKLERS IN ACCORDANCE WITH "UFC 3-600-01" (2016. CHANGE 5). 2. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE IN ACCORDANCE
- WITH "UFC 3-600-01" (2016, CHANGE 5). FOR ALL PROJECTS, DESIGN OF SUPPORTS FOR FIRE PROTECTION SYSTEMS SHALL COMPLY, AS A MINIMUM, WITH SEISMIC CRITERIA AS OUTLINED IN UFC REQUIREMENTS.
- 13. TEMPERATURE RATINGS, OF FUSIBLE ELEMENTS, IN AUTOMATIC SPRINKLERS SHALL BE IN ACCORDANCE WITH "UFC 3-600-01" (2016, CHANGE 5).

- 14. ALL VALVES FOR FIRE SERVICE SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC. AND THE FACTORY MUTUAL LABORATORIES. VALVES SHALL BE FACTORY MARKED "UL" AND "FM", (175 WORKING PRESSURE.)
 - 15. ALL VALVES ON THE FIRE PROTECTION SYSTEM SHALL BE ELECTRICALLY SUPERVISED. TYPE AND EXACT LOCATION OF FLOW, PRESSURE AND SUPERVISORY SWITCHES SHALL BE COORDINATED BETWEEN THE DIFFERENT RESPONSIBLE TRADES.
 - 16. ALL POWER WIRING, CONTROL WIRING, AND INTERLOCK WIRING SHALL BE ACCOMPLISHED UNDER THE ELECTRICAL DIVISION. COORDINATE ALL ELECTRICAL ITEMS WITH ELECTRICAL CONTRACTOR AND INSURE PROPER COORDINATION. 17. PROVIDE A PERMANENTLY ATTACHED NAME TAG, STATING THE REQUIRED DESIGN
 - CRITERIA, FOR EACH HYDRAULICALLY DESIGNED SYSTEM. 18. SPRINKLERS SHALL COVER THE ENTIRE AREA OF THE ROOM, INCLUDING ALCOVES. SPRAY SHALL NOT BE BLOCKED BY WALLS OR PARTITIONS. 19. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY.
 - 20. MAINTAIN A MINIMUM OF 18 INCHES FROM THE BOTTOM OF THE SPRINKLER DEFLECTOR TO THE TOP OF STORAGE / FILE STORAGE. 21. FIRE SUPPRESSION SYSTEM AUXILIARY DRAIN VALVES SHALL BE FULLY ACCESSIBLE AND LOCATED NO HIGHER THAN 7'-0" AFF. PROVIDE ALL SYSTEMS WITH FLUSHING
 - 22. PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK THAT IS 48" OR WIDER. 23. PROVIDE HEAD GUARDS ON SPRINKLERS IN ALL AREAS WHERE THE SPRINKLERS MAY BE SUBJECT TO DAMAGE, INCLUDING BUT NOT LIMITED TO WAREHOUSE AREAS, STORAGE ROOMS, LOADING DOCKS, ELECTRICAL ROOMS, AND MECHANICAL ROOMS.
 - 24. SYSTEMS SHALL BE SUPERVISED BY OTHERS. 25. ALL HYDROSTATIC TESTING AND / OR FLUSHING SHALL BE PERFORMED IN STRICT ACCORDANCE WITH "UFC 3-600-01" (2016, CHANGE 5), AND SHALL BE WITNESSED BY A
 - REPRESENTATIVE OF THE LOCAL AUTHORITY HAVING JURISDICTION. 26. ALL MATERIALS USED FOR THE NEW FIRE SPRINKLER SYSTEM SHALL BE NON-COMBUSTIBLE. 27. PROVIDE SPRINKLERS UNDER ALL COMBUSTIBLE PLATFORMS. 28. PROVIDE ALL SIGNAGE AS REQUIRED BY "UFC 3-600-01" (2016, CHANGE 5), THE OWNER'S

REPRESENTATIVES, AND THE BASE FIRE DEPARTMENT.

ENGINEERING

903 SOUTH PERRY STREET MONTGOMERY, AL 36104 No. 16984 T. (334) 269-0329 No. 16984
PROFESSIONAL www.Jmorriseng.com 09/06/21

PROJECT NO:

FIRE SPRINKLER

PLUMBING GENERAL NOTES

- 1. SANITARY WASTE AND VENT PIPING ABOVE GRADE TO BE SCHEDULE 40 PVC. SANITARY PIPING BELOW GRADE WILL BE CAST IRON. 2. DOMESTIC HOT AND COLD WATER PIPING ABOVE GRADE WILL BE TYPE "L" COPPER WITH SOLDERED OR PRESS FIT JOINTS. COLD WATER PIPING ENTERING BUILDING WILL BE TYPE "K" WITH SILVER SOLDERED JOINT 3. ABOVE GRADE NATURAL GAS PIPING WILL BE SCHEDULE 40 BLACK IRON. NO PIPING IN NON VENTED CONCEALED SPACES. EXTERIOR UNDERGROUND GAS PIPING WILL BE HDPE (HIGH DENSITY POLYETHYLENE) PIPING.
- 4. ALL INDIRECT DRAINS TO HAVE INSULATED DEEP SEAL P-TRAPS. 5. ALL FLOOR DRAINS TO HAVE DEEP SEAL P-TRAPS. 6. THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESES DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- 7. COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
- 8. NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS. 9. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO ANY BID SUBMISSION TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. THE CONTRACTOR SHALL MAKE ADJUSTMENTS IN ROUTING AND LOCATION, IF NECESSARY, IN SIZE, IN ORDER TO ACHIEVE THE SPECIFIED PERFORMANCE WITHOUT INCURRING ADDITIONS TO THE CONTRACT. WHERE EXISTING CONDITIONS DIFFER SIGNIFICANTLY ENOUGH TO AFFECT PRICING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO BID SUBMISSION FOR A RESOLUTION. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
- 10. ALL VTR'S TO BE CAST IRON (3'-0" MIN. LENGTH) AT ROOF PENETRATION. 11. SUPPORT PIPE AS REQUIRED BY THE 2015 INTERNATIONAL PLUMBING CODE. 12. FIRESTOP ALL RATED WALLS AND FLOOR PENETRATIONS. SEE ARCHITECTURAL
- DRAWINGS FOR RATED WALL AND FLOOR LOCATIONS. 13. COORDINATE ALL PLUMBING IN SLAB WITH BUILDING FOOTINGS.

14. OFFSET ALL VTR'S TO BACKSIDE OF ROOF RIDGE.

CONNECTION IS SPECIFIED UNDER ANOTHER SECTION).

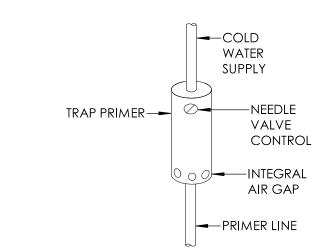
- 15. PROVIDE FIRESTOPPING ASSEMBLIES AT ANY AND ALL FIR-RATED PENETRATIONS. EQUAL TO ROXTEC. 16. DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED (EVEN IF FINAL
- 17. THE CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES AND NORMAL FUNCTIONING OF EXISTING FACILITIES AND SERVICES.
- 18. VERIFY EXACT ROUGH-IN AND FINAL EQUIPMENT REQUIREMENTS IN FIELD. 19. THE CONTRACTOR SHALL VERIFY ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, EQUIPMENT,
- 20. COORDINATE ROUTING AND LOCATION OF WASTE AND VENT PIPING WITH ALL OTHER TRADES.

- 21. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS WALLS AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM. 22. ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF
- 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE DEVICE. 23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO GAS FIRED EQUIPMENT AND SPECIFIED FIXTURES. ALL GAS FIRED EQUIPMENT AND FIXTURES SHALL BE OPERABLE. 24. WHERE DISSIMILAR PIPING MATERIALS (STEEL AND COPPER) ARE CONNECTED,

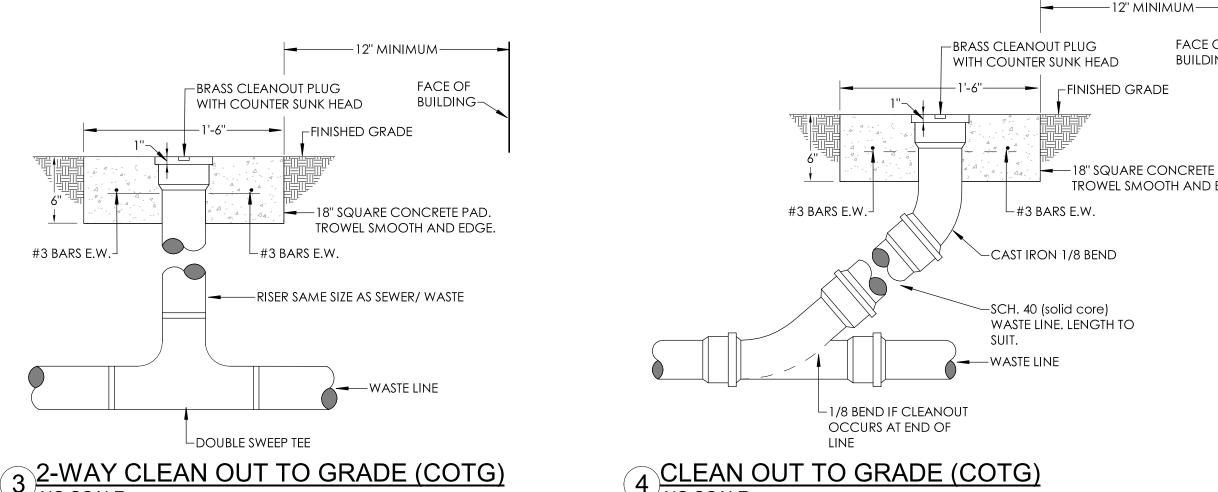
INSTALL A THREADED BRASS NIPPLE FOR PIPE SIZES 2" AND LESS. FOR PIPE SIZES

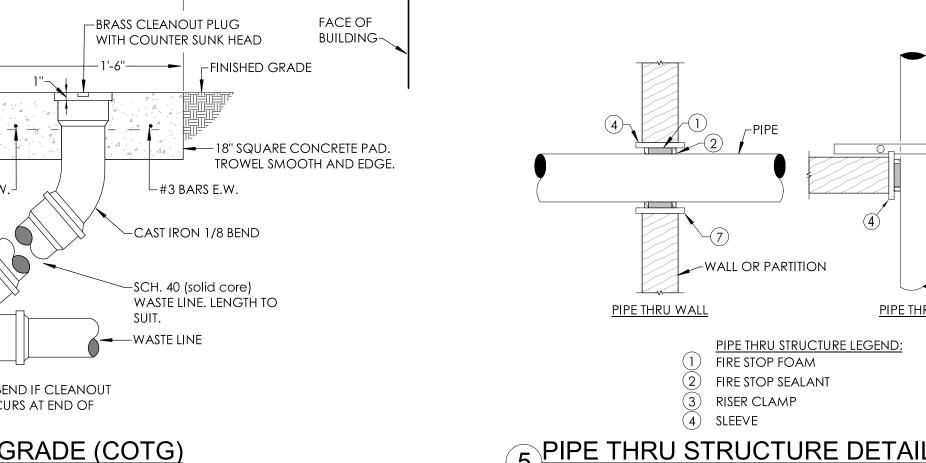
- 2-1/2" AND ABOVE, INSTALL ISOLATING FLANGES. DIELECTRIC UNIONS ARE NOT TO BE USED EXCEPT AT THE WATER HEATERS. 25. ALL WATER LINES INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED INSIDE OF WALL INSULATION AND INSULATED INDIVIDUALLY TO PROTECT FROM FREEZING
- PIPING AND FITTINGS. 26. INSTALL "TRAPGUARD" FOR ALL FLOOR DRAINS IN BATHROOMS, RESTROOMS, JANITOR, MECHANICAL ROOMS AND PARTY ROOM FLOOR DRAINS. ALL FLOOR
- DRAINS ARE TO HAVE 4" DEEP SEAL TRAPS AND THE "TRAPGUARD". (NO 27. PROVIDE CLEANOUTS EVERY 75'-0" OR AT EACH CHANGE IN DIRECTION MORE THAN 45° AS REQUIRED BY CODE. COORDINATE LOCATIONS WITH ARCHITECT.
- 28. THESE PLANS (ALL PLUMBING SHEETS) ARE SCHEMATIC IN NATURE AND ARE INTENDED TO ESTABLISH SIZE, GENERAL ROUTING, LOCATION, PERFORMANCE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. ALL WORK SHALL BE FULLY COORDINATED WITH OTHER TRADES TO INSURE THE INSTALLATION OF A COMPLETE OPERABLE SYSTEM THAT FITS IN THE SPACE ALLOTTED. PROVIDE ALL LABOR, EQUIPMENT, APPURTENANCES AND MATERIALS NECESSARY, AND PERFORM ALL OPERATIONS REQUIRED FOR THE INSTALLATION OF COMPLETE, FUNCTIONAL PLUMBING SYSTEMS AS OUTLINED ON THE DRAWINGS AND
- DESCRIBED IN THE SPECIFICATIONS. 29. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL
- 30. VERIFY ALL POINTS OF CONNECTION WITH OTHER DISCIPLINES (LOCATION AND INVERT) PRIOR TO INSTALLATION. THIS SHALL INCLUDE EXISTING SITE UTILITIES AS WELL AS NEW SITE UTILITIES INSTALLED UNDER THE SCOPE OF WORK FOR THIS PROJECT.
- 31. COORDINATE WITH OTHER TRADES TO PREVENT INTERFERENCE WITH HVAC DUCTS, ELECTRICAL LIGHTING AND STRUCTURE IN THE CEILING PLENUMS 32. WHEN/ IF A CONFLICT EXISTS BETWEEN THE DRAWING AND SPECIFICATIONS, THE HIGHER STANDARD/ DIRECTION SHALL APPLY. THE FINAL DECISION SHALL BE MADE BY THE ARCHITECT AND/ OR ENGINEER. THE HIGHER PRICE SHALL BE INCLUDED IN THE BID PRICE.
- 33. COORDINATE ALL DMV PIPING WITH THE JOIST LAYOUT BELOW. COORDINATE THROUGH THE ARCHITECT, GENERAL CONTRACTOR, THIS SET OF CONSTRUCTION DOCUMENTS (STRUCTURAL/ ARCHITECTURAL) ETC. THERE WILL NOT BE ANY CHANGE ORDERS ISSUED OR PAID FOR GENERAL/ REQUIRED OFFSETS DUE TO THE FAILURE OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE STRUCTURE PRIOR TO THE BID. THE SUBMITTED BID PRICE SHALL HAVE AN ALLOWANCE FOR ALL REQUIRED OFFSETS, ETC.

PLUMBING LEGEND **WASTE PIPING VENT PIPING** _ _ _ _ _ _ _ _ _ _ _ _ COLD WATER PIPING BALL VALVE CONDENSATE PIPING GAS PIPING GAS VALVE GAS PRESSURE REGULATOR C.O.T.G. (SET IN 18"X18"X6" CONCRETE PAD WITH TOOLED EDGES. PROVIDE BRASS PLUG.) WALL HYDRANT (FREEZE PROOF) BELOW FLOOR B.G. **BELOW GRADE** V.T.R. VENT THRU ROOF W.C.O. WALL CLEANOUT $\overline{}$ F.C.O. FLOOR CLEANOUT

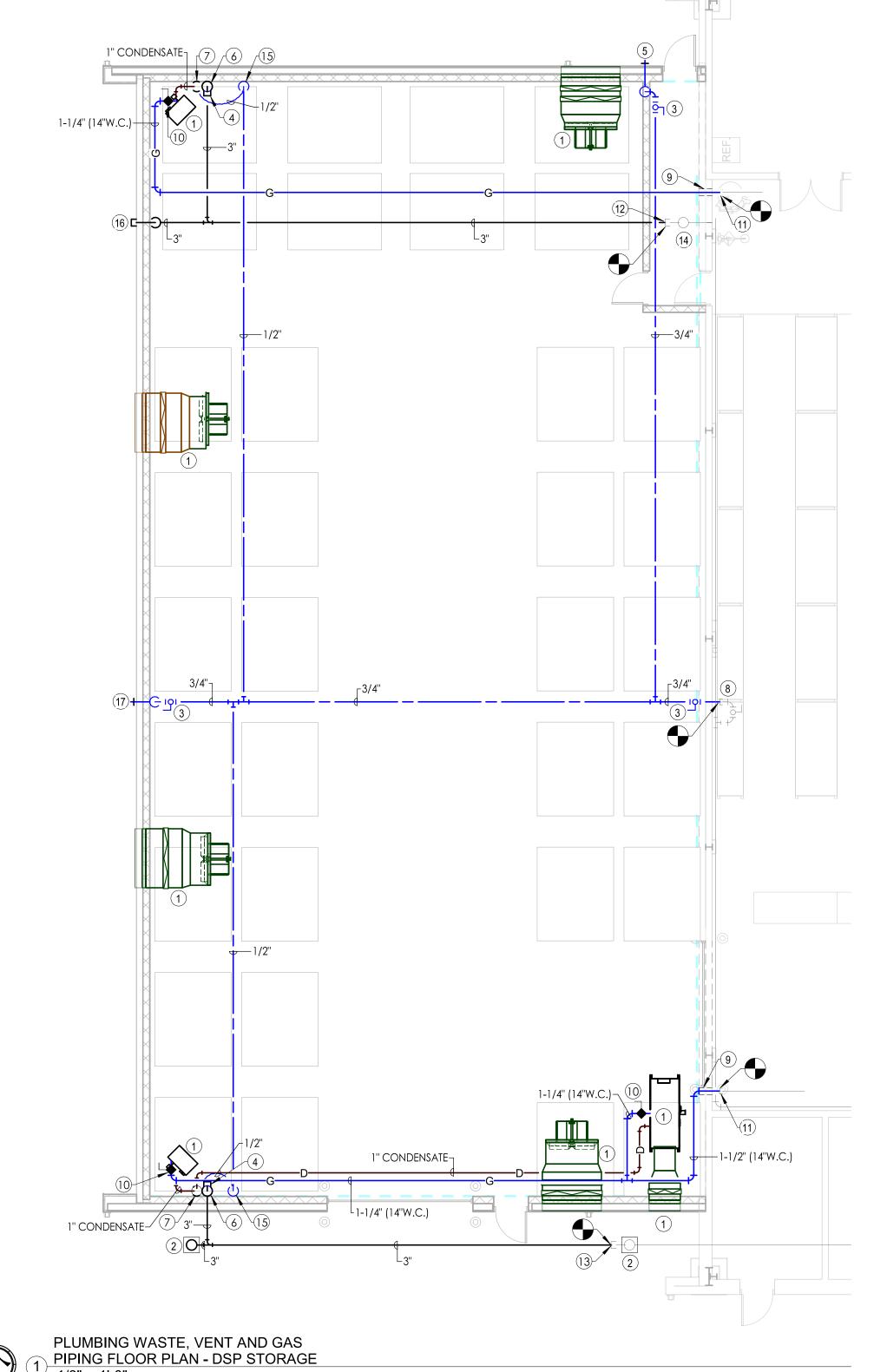


PIPE THRU FLOOR





NO SCALE



VENTS THROUGH ROOF MUST BE LOCATED MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKE. COORDINATE WITH MECHANICAL CONTRACTOR AND WITH ROOFING CONTRACTOR.

PLUMBER SHALL COORDINATE WITH GENERAL CONTRACTOR ALL OPENINGS REQUIRED FOR PLUMBING SYSTEMS TO EXTEND FLOOR TO

SLEEVE ALL PENETRATIONS OF STRUCTURE BELOW GRADE. PROVIDE CLEARANCE AROUND PIPES FOR BUILDING EXPANSION AND CONTRACTION. COORDINATE WITH STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR.

GAS PIPING IS SIZING USING TABLE 402.4(2) FROM THE 2015 INTERNATIONAL FUEL GAS CODE (SCH. 40 STEEL PIPING AT 14"W.C. INLET PRESSURE). THE LENGTH OF PIPING FROM THE BUILDING METER TO THE FURTHEST EQUIPMENT CONNECTION IS APPROXIMATELY 400'-0" ANY CHANGE IN THE MATERIALS OR ROUTING WILL REQUIRE RECALCULATION OF REQUIRED PIPE SIZES. TOTAL LOAD = 2,125 MBH LOAD

GAS SYSTEM SHALL BE INSTALLED BY A LICENSED GAS TECHNICIAN.

ALL GAS PIPING BELOW GRADE AND SLAB SHALL BE SLEEVED AND VENTED. TRACPIPE PII OR EQUAL. ALL GAS PIPING ABOVE GRADE SHALL BE TRAC PIPE COUNTER STRIKE OR EQUAL.

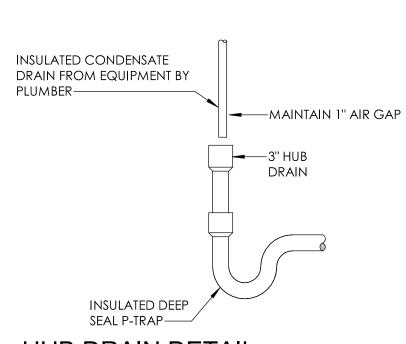
GAS PIPING EXPOSED (AREAS WITHOUT CEILINGS) SHALL BE PAINTED FLAT

BLACK WITH ONE COAT OF PRIMER AND ONE COAT OF ENAMEL PAINT.

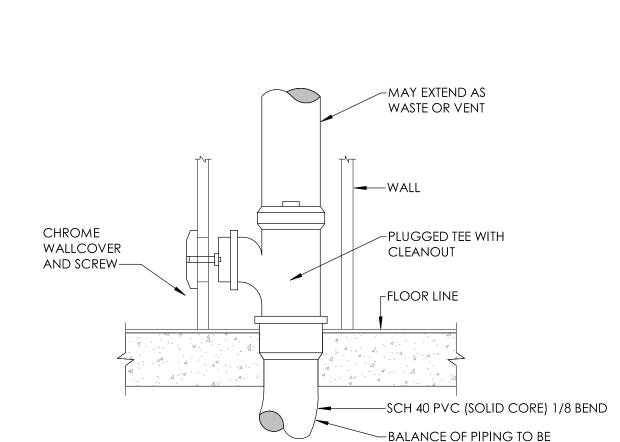
INSTALL ALL WATER AND GAS PIPING AS CLOSE TO STRUCTURE AS

KEYED NOTES (THIS SHEET ONLY)

- MECHANICAL UNIT. (SEE MECHANICAL DRAWINGS) COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. 2. C.O.T.G. (SET IN 18"X18"X6" CONCRETE PAD WITH TOOLED EDGES.
- PROVIDE BRASS PLUG. 3. BALL VALVE. PROVIDE 12"X12" ACCESS PANEL TO MATCH CEILING IF LOCATED IN NON-TILE CEILING AREA. (TYPICAL)
- 4. W.C.O. 5. WALL HYDRANT. (FREEZE PROOF)
- 6. 2" V.T.R. 7. 2"X3" HUB DRAIN WITH INSULATED DEEP SEAL P-TRAP FOR MECHANICAL UNIT CONDENSATE. MOUNTED AT 7'-0". VERIFY MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR. (PROVIDE
- 8. CONNECT TO 3/4" C.W. STUB OUT FROM BASE SUPPLY BUILDING. SEE BASE SUPPLY FLOOR PLANS FOR CONTINUATION. 9. SLEEVED.
- 10. GAS VALVE. 11. CONNECT TO 1-1/4" (14"W.C.) STUB OUT FROM BASE SUPPLY BUILDING. SEE BASE SUPPLY FLOOR PLANS FOR CONTINUATION.
- 12. CONNECT TO 3" WASTE STUB OUT AT 2' 7-1/4" BELOW FINISHED FLOOR ELEVATION FROM BASE SUPPLY BUILDING. SEE BASE SUPPLY FLOOR PLANS FOR CONTINUATION.
- 13. CONNECT TO 3" WASTE STUB OUT AT 2' 5-5/8" BELOW FINISHED FLOOR ELEVATION FROM BASE SUPPLY BUILDING. SEE BASE SUPPLY FLOOR PLANS FOR CONTINUATION 14. C.O.T.G. FROM BASE SUPPLY TO BE REPLACED WITH F.C.O.
- 15. TRAP PRIMER. EXPOSED, STRAP TO WALL. COORDINATE MOUNTING HEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR.
- 16. EXTERIOR W.C.O. 17. WALL HYDRANT. (FREEZE PROOF) (MOUNT WALL HYDRANT 2'-0" ABOVE GRADE)

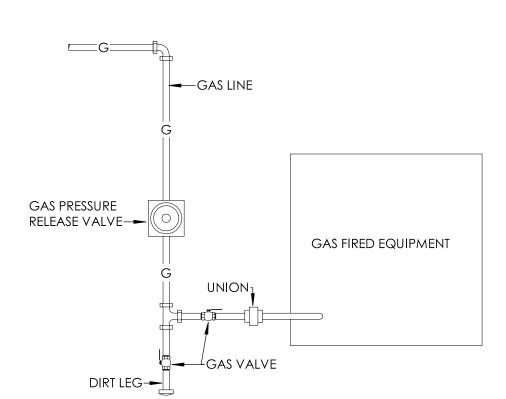


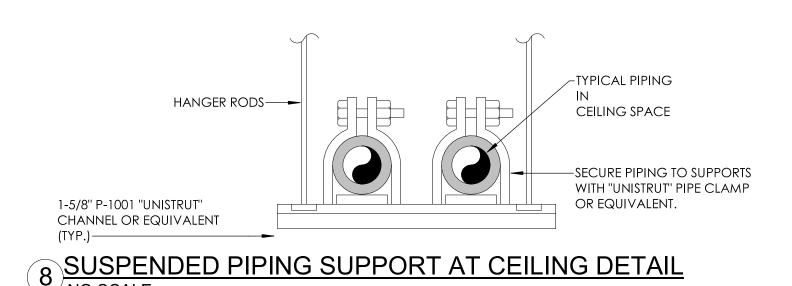
6 HUB DRAIN DETAIL

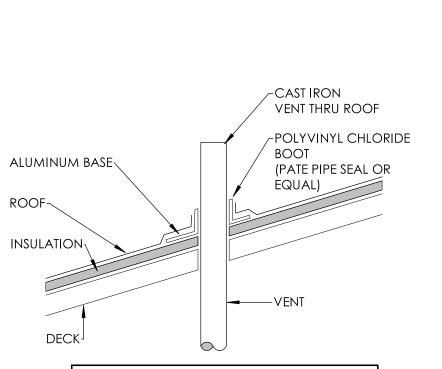


AS SPECIFIED.

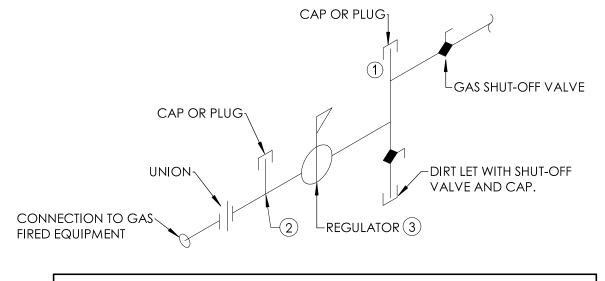
7 WALL CLEANOUT DETAIL NO SCALE







NOTE: ALL VENTS THRU ROOF (VTR) SHALL BE INSTALLED SO THAT THE TOP 3'-0" MINIMUM IS CAST IRON AT ROOF PENETRATION. **10 VENT THRU ROOF DETAIL**



<u>NOTE:</u> THE GAS PRESSURE REGULATOR SHALL BE PROVIDED WITH EASY ACCESS. WHERE OCATED INDOORS, THE REGULATOR SHALL BE VENTED TO THE ATMOSPHERE. VENT PIPING SHALL NOT BE SMALLER THAN THE VENT CONNECTION ON THE REGULATOR AND SHALL BE RUN INDEPENDENTLY. (SERVING ONLY A SINGLE DEVICE VENT.)

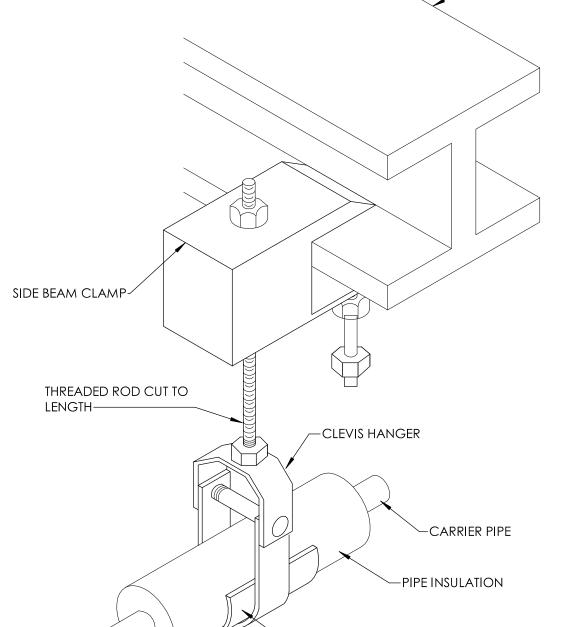
SHALL BE POSITIONED TO ALLOW CONNECTION OF A PRESSURE GAUGE AND TO SERVE AS A SEDIMENT TRAP. (DIRT LEG) (2) A TEE FITTING WITH ONE OPENING CAPPED OR PLUGGED SHALL BE INSTALLED NOT LESS THAN 10 PIPE DIAMETERS DOWNSTREAM OF THE REGULATOR OUTLET. THE TEE FITTING SHALL BE POSITIONED TO ALLOW CONNECTION OF A PRESSURE

) A TEE FITTING WITH ONE OPENING CAPPED OR PLUGGED SHALL BE INSTALLED

BETWEEN THE REGULATOR AND ITS UPSTREAM SHUT-OFF VALVE. THE TEE FITTING

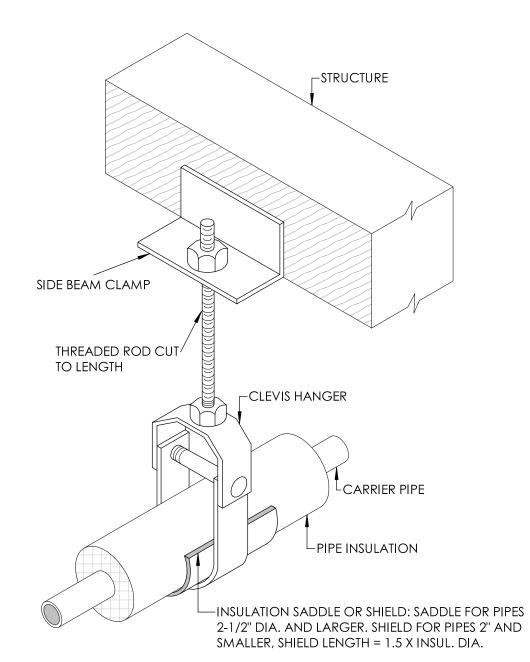
NOTE LEGEND: (THIS DETAIL ONLY)

(3) LINE GAS PRESSURE REGULATORS SHALL BE LISTED AS COMPLYING WITH "ANSI Z 21.80" GAS PRESSURE REGULATOR DETAIL



-STRUCTURE

INSULATION SADDLE OR SHIELD: SADDLE FOR PIPES 2-1/2" DIA. AND LARGER. SHIELD FOR PIPES 2" AND SMALLER, SHIELD LENGTH = 1.5 X INSUL. DIA.



13 PIPE HANGER DETAIL NO SCALE



Rev. Description Date

ob Number 10 April 2025 rawn By hecked By

PLUMBING WASTE, VENT AND GAS FLOOR PLAN - DSP STORAGE

heet Number

No. 16984 PROFESSIONAL | 09/06/21

EXHAUST FAN SCHEDULE NOTES:

- 1. PROVIDE ECM MOTOR WITH BACNET CONTROLLER AND HAND OFF AUTO PUSH BUTTON SWITCH. INTERLOCK WITH DDC SYSTEM AND FIRE ALARM SYSTEM.
- 2. FACTORY MTD DISCONNECT SWITCH.
- 3. MOTORIZED DAMPER 120V, SINGLE PHASE. 4. BASIS OF DESIGN IS COOK. EQUAL SUBSTITUTES BY GREENHECK ARE APPROVED SUBSTITUTES.
- 5. BASIS OF DESIGN BIG ASS FAN MODEL PFX3-18 WITH VARIABLE SPEED DRIVE, FACTORY DISCONNECT SWITCH, MULTI POINT SAFETY INSTALLATION KIT. PROVIDE WALL CONTROLLER AND INTERLOCK WITH DDC SYSTEM AND FIRE ALARM SYSTEM.

| | GAS FIRE | D UNIT | HEATE | R SCH | DULE | |
|--------|--------------------|--------|-----------------|------------------|---------------------|---------|
| SYMBOL | LOCATION | CFM | INPUT BTU/HR | OUTPUT BTU/HR | POWER V / P / Hz | REMARKS |
| GUH-12 | DEPLOYABLE STORAGE | 2600 | 155,000 | 144,150 | 115 / 1 / 60 | 1,2,3 |
| GUH-13 | DEPLOYABLE STORAGE | 2600 | 155,000 | 144,150 | 115 / 1 / 60 | 1,2,3 |
| GMAU-2 | DEPLOYABLE STORAGE | 1200 | 125,000 | 101,000 | 115 / 1 / 60 | 2,3,4 |

GAS FIRED UNIT HEATER SCHEDULE NOTES:

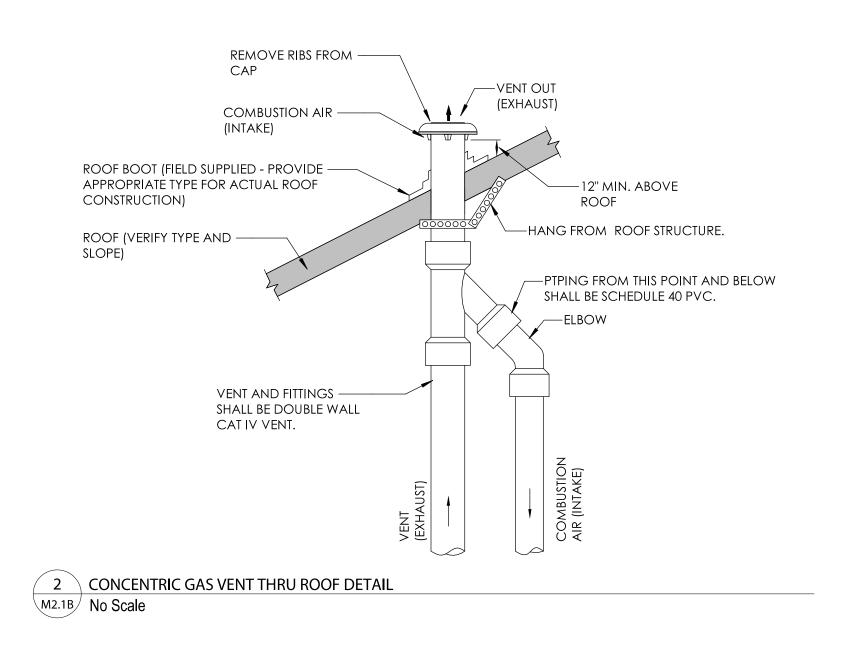
- 1. UNIT BASED ON HIGH EFFICIENCY GAS FIRED UNIT HEATER MFR. BY MODINE MODEL PTC 156. EQUALS BY TRANE AND REZNOR ARE ACCEPTABLE SUBSTITUTES. INSTALL PER U.L. LISTING AND PER MANUFACTURER'S RECOMMENDATIONS.
- 2. PROVIDE FACTORY DISCONNECT SWITCH, 97% EFFICIENT CONDENSING UNIT HEATER, CONDENSATE PUMP, DEFLECTOR HOOD, MOUNTING KIT AND pH NEUTRALIZING KIT.
- 3. STAINLESS STEEL HEAT EXCHANGER. CONTROL WITH DDC CONTROL SYSTEM. SEE SPECIFICATIONS. 4. UNIT BASED ON HIGH EFFICIENCY GAS FIRED MAKE UP AIR UNIT MFR. BY MODINE MODEL PDH. DOUBLE WALLED INSULATED CABINET, VARIABLE SPEED BLOWER MOTOR AND MODULATING GAS HEAT EXCHANGER.

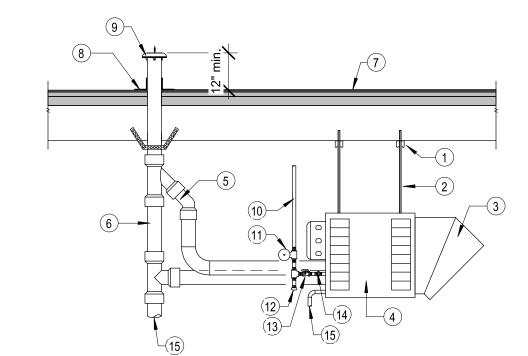
| | LOUVER SCHEDULE | | | | | | | | | |
|--------|-----------------|------------------------------|-----------|----------------------------------|--------|---------|--|--|--|--|
| SYMBOL | ТҮРЕ | MAX. EXT. S.P. IN. W.C | SIZE | MIN. SQ. FEET FREE AREA | CFM | REMARKS | | | | |
| L-22 | E | 0.1 | 68''X60'' | 22.9 | 10,000 | 1,2 | | | | |
| L-23 | E | 0.1 | 68"X60" | 22.9 | 10,000 | 1,2 | | | | |
| L-24 | I | 0.1 | 68"X60" | 22.9 | 10,000 | 1,2 | | | | |
| L-25 | I | 0.1 | 68"X60" | 22.9 | 10,000 | 1,2 | | | | |
| L-26 | ı | 0.1 | 36"X24" | 3.05 | 1,200 | 1,2 | | | | |

LOUVER SCHEDULE NOTES:

1. GENERAL CONTRACTOR TO PROVIDE EXTERIOR LOUVERS. REFER TO SPECIFICATIONS SECTION 08 9100. 2. PROVIDE MOTORIZED DAMPER WITH SPRING RETURN CLOSE 120V. ACTUATOR TO INTERFACE WITH DDC CONTROL SYSTEM. SEE SPECIFICATIONS.

TYPE: I - INTAKE E - EXHAUST

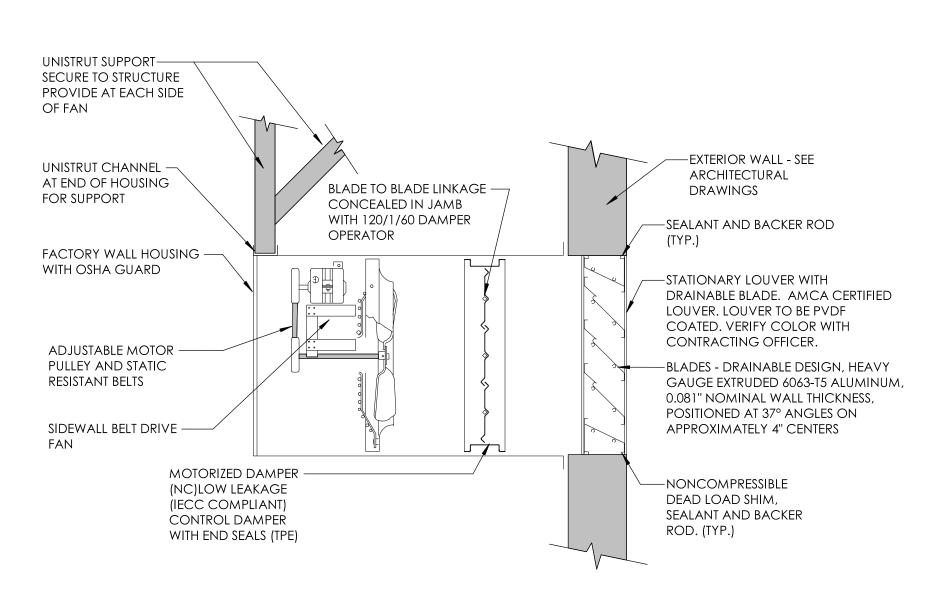




KEYED NOTES: GAS FIRED UNIT HEATER DETAIL

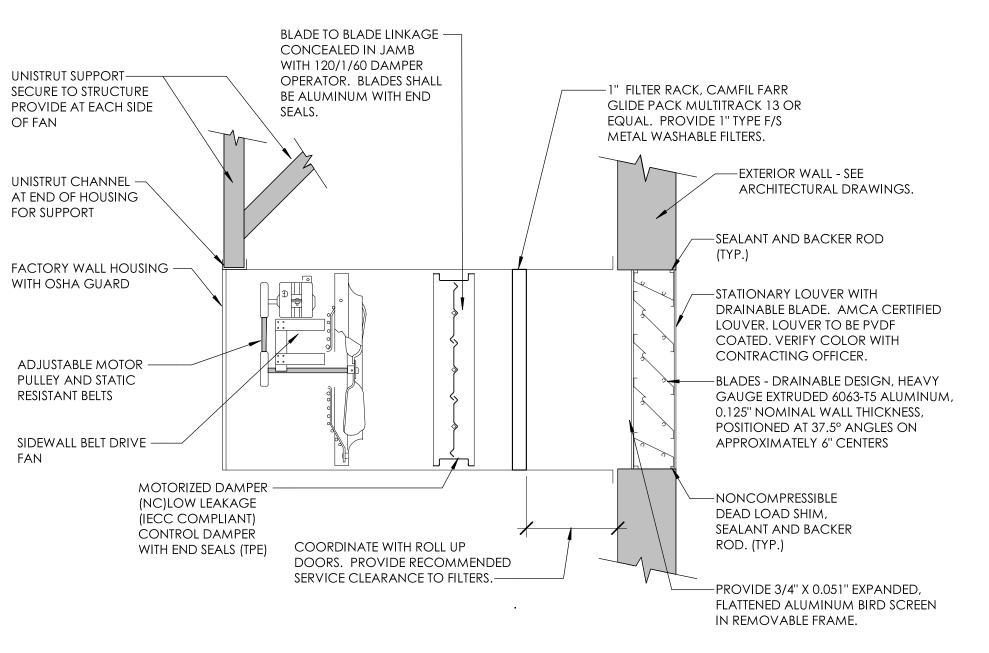
- 1. 12 GAUGE UNISTRUT. ATTACH TO STRUCTURE AS REQUIRED. 2. 3/8" ALL THREADED ROD WITH NUTS AND WASHES ON ALL FOUR CORNERS OF UNIT.
- 3. 45° AIRFLOW SHROUD 4. NATURAL GAS FIRED PROPELLAR FAN UNIT HEATER AS SCHEDULED.
- 5. SCHEDULE 40 CPVC COMBUSTION AIR PIPING. (SEE MANFACTURER'S INSTRUCTIONS). PROVIDE ACID NEUTRALIZATION.
- 6. DOUBLE WALL METAL CAT IV FLUE EXHAUST VENT. (SEE MANFACTURER'S INSTRUCTIONS). PROVIDE ACID
- NEUTRALIZATION. 7. ROOF STRUCTURE. (SEE ARCHITECTURAL PLANS).
- 8. ROOF FLASHING (BY ROOFING CONTRACTOR). 9. CONCENTRIC VENT THROUGH ROOF. 10. GAS SUPPLY LINE. (SEE PLUMBING PLANS).
- GAS PIPING REGULATOR. 12. SEDIMENT TRAP MINIMUM DRIT LEG 3". 13. MANUAL SHUT OFF VALVE (GAS COCK). WITH PLUGGED 1/8" NPT TEST GAUGE CONNECTION.
- 14. GROUND JOINT UNION. 15. CONDENSATE DRAIN FOR UNIT. PROVIDE ACID NEUTRALIZATION. (SEE MANUFACTURER'S INSTRUCTIONS).

6 GAS FIRED UNIT HEATER DETAIL



NOTE: REFER TO SPECIFICATION SECTION 08 9100 FOR ADDITIONAL REQUIREMENTS.

9 \ WALL VENTILATION EXHAUST FAN DETAIL M2.1B No Scale

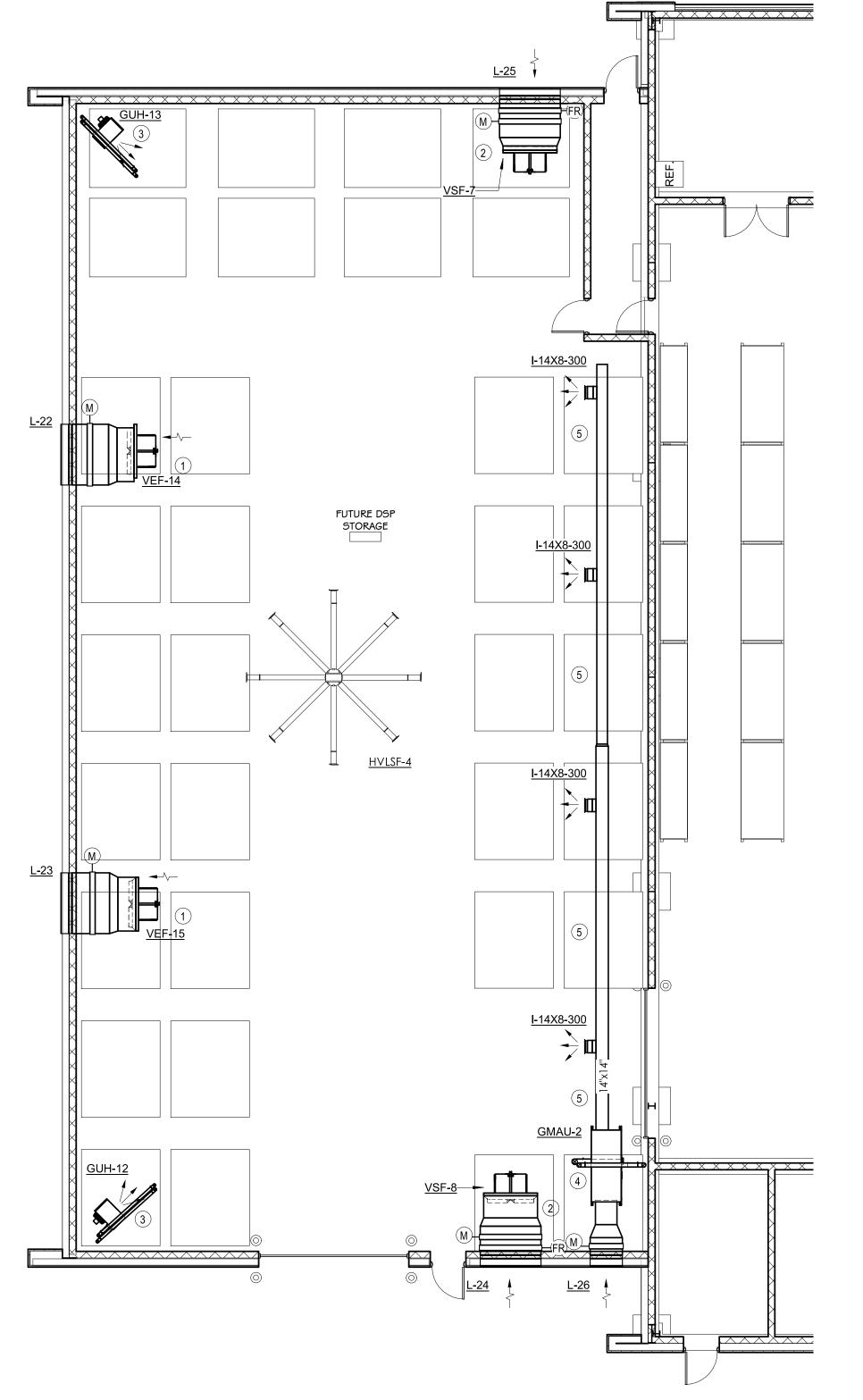


NOTE: REFER TO SPECIFICATION SECTION 08 9100 FOR ADDITIONAL REQUIREMENTS.

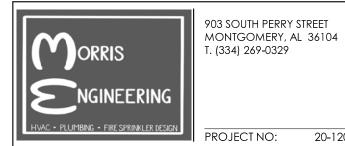
10 WALL VENTILATION SUPPLY FAN WITH FILTER DETAIL M2.1B No Scale

KEYED NOTES (THIS SHEET ONLY)

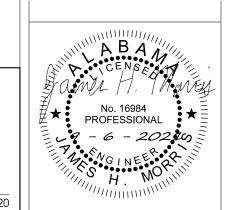
- PROVIDE A COMPLETE AND OPERATIONAL WALL PROPELLER EXHAUST FAN AS DETAILED AND SPECIFIED. GENERAL CONTRACTOR SHALL PROVIDED WALL LOUVER. COORDINDATE TYPE AND SIZE OF LOUVER PRIOR TO ORDERING.
- PROVIDE A COMPLETE AND OPERATIONAL WALL PROPELLER SUPPLY FAN WITH FILTER RACK AS DETAILED AND SPECIFIED. PROVIDE A COMPLETE AND OPERATIONAL HIGH EFFICIENCY CONDENSING GAS FIRED UNIT HEATER SUSPENDED FROM STRUCTURE.
- PRIOR TO ROUGH-IN. PROVIDE CONCENTRIC VENT THRU ROOF. PROVIDE A COMPLETE AND OPERATIONAL CONDENSING GAS FIRED MAKE UP AIR UNIT. COORDINATE EXACT PLACEMENT WITH EQUIPMENT LAYOUT PRIOR TO ORDERING. UNIT SHALL BE SUSPENDED FROM STRUCTURE. VERIFY MOUNTING HEIGHT AND LOCATION WITH STORAGE RACKS PRIOR TO ROUGH-IN. PROVIDE CONCENTRIC VENT
- PROVIDE DOUBLE WALL RECTANGULAR DUCTWORK. DUCTWORK TO BE RUN HIGH AS POSSIBLE TIGHT TO STRUCTURE. 6. PROVID A COMPLETE AND OPERATIONAL HIGH VELOCITY LOW SPEED (HVLS) FAN AS DETAILED AND SPECIFIED. COORDINATE MOUNTING HEIGHT WITH CONTRACTING OFFICER PRIOR TO ROUGH-IN.
- PROVIDE AND INSTALL A COMPLETE AND OPERATIONAL SYSTEM FOR EACH OF THE MECHANICAL ITEMS LISTED ABOVE. INSTALL EACH ITEM IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND WITH THE MANUFACTURERS RECOMMENDED CLEARANCES. EACH SYSTEM SHALL INCLUDE ALL REQUIRED ACCESSORIES.



1 FIRST FLOOR PLAN - MECHANICAL DSP 1/8" = 1'-0"









Revision Date Job Number

10 April 2025 Drawn By MSC/WC Checked By

Project Title

DANNELLY FIELD MONTGOMERY, AI

ABLE

MECHANICAL FLOOR PLAN - DSP STORAGE

ELECTRICAL SYMBOL LEGEND

LIGHTING SYSTEMS SYMBOLS:

- (A) CEILING FIXTURE, LETTER IN SYMBOL DENOTES TYPE OF FIXTURE.
- B LIGHTING FIXTURE, LETTER IN SYMBOL DENOTES TYPE OF FIXTURE.
- ED LIGHTING FIXTURE, SURFACE MOUNTED OR RECESSED. NUMBER (2) REPRESENTS CIRCUIT NUMBER, F3 REPRESENTS FIXTURE TYPE (SEE LIGHTING FIXTURE SCHEDULE) AND LOWER CASE SUBSCRIPT (i.e. 'b') REPRESENTS RELAY IN LIGHTING CONTROLLER (SEE LOW VOLTAGE SWITCH SCHEDULE).
- LIGHTING FIXTURE, SURFACE MOUNTED OR RECESSED FOR LIFE SAFETY.
- LIGHTING FIXTURE, SURFACE MOUNTED OR RECESSED FOR 24/7 OPERATION.
- LED STRIP OR INDUSTRIAL FIXTURE. SURFACE MOUNTED OR SUSPENDED.
- WB CL WALL MOUNT LIGHT FIXTURE, LETTER DENOTES TYPE OF FIXTURE.
- (R)> INGRADE LIGHT FIXTURE, LETTER DENOTES TYPE OF FIXTURE.
- EXIT LIGHT SURFACE MOUNTED ON CEILING. ARROWS INDICATE WHAT DIRECTION FACE SHOULD BE IN AND WHERE ARROWS SHALL BE SHOWN. IF NO ARROWS ARE SHOWN, THEN ALIGN FACE INTO CORRIDOR OR OPEN ROOM WITH NO ARROWS.
- EXIT LIGHT BRACKET MOUNTED OVER DOOR OR WALL MOUNTED AS INDICATED.
- \$ SWITCH, SINGLE POLE, 20A, TOGGLE, FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX.
- \$ SWITCH, THREE WAY, 20A, TOGGLE, FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX.
- SWITCH, SINGLE POLE, 20A, TOGGLE, FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX. MOUNT IN A WEATHERPROOF BOX AND COVER.
- LOW VOLTAGE CONTROL SWITCH, FLUSH MOUNTED 48" A.F.F. TO THE CENTER OF THE BOX. LETTER REPRESENTS INDIVIDUAL SWITCH. SEE LOW VOLTAGE SWITCH SCHEDULE FOR BUTTON/RELAY CONFIGURATION.
- S A LINE VOLTAGE OCCUPANCY SENSOR SWITCH, FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX. MANUAL "ON", MANUAL/ OCCUPANCY SENSOR "OFF".
- S D LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH. FLUSH MOUNTED 48"
 A.F.F. TO THE TOP OF THE BOX. MANUAL "ON", MANUAL/ OCCUPANCY SENSOR "OFF" WITH
 0-10V DIMMING. HUBBELL #LHDMMTS-2-N-XX OR EQUAL. PROVIDE DIMMING CIRCUIT PER
 MANUFACTURER'S RECOMMENDATIONS.
- (PC) LOW VOLTAGE PHOTO CELL. MOUNT DEVICE PER MANUFACTURER'S RECOMMENDATIONS.
- LOW VOLTAGE, DUAL TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR. ALL SENSORS SHALL BE DAISY CHAINED TOGETHER AND HOMERUN TO ROOM CONTROLLER 'LC' OR CONTROL PANEL. MOUNT SENSOR BASED ON MANUFACTURER'S RECOMMENDED
- LIGHTING ROOM CONTROLLER EQUAL TO HUBBELL #NXRC2-3RD-UNV.
- LIGHTING ROOM CONTROLLER WITH UL-924 TRANSFER RELAY FOR EMERGENCY POWER.
- EMERGENCY LIGHT UNIT.

RACEWAY SYMBOLS:

- BRANCH CIRCUIT, CONCEALED ABOVE CEILING OR IN WALL, 1/2"c. UNLESS NOTED, WITH GREEN GROUNDING ELECTRODE CONDUCTOR IN ADDITION TO CIRCUIT SHOWN, MINIMUM
- BRANCH CIRCUIT, EXPOSED IN BAR JOIST SPACE, BELOW CEILING OR ON WALLS. 1/2"c.
 UNLESS NOTED, WITH GREEN GROUNDING ELECTRODE CONDUCTOR IN ADDITION TO
 CIRCUIT SHOWN, MINIMUM #12 AWG COPPER. ROUTE PERPENDICULAR AND PARALLEL
 WITH STRUCTURAL MEMBERS.
- BRANCH CIRCUIT, CONCEALED IN SLAB BELOW SLAB, OR BELOW GRADE, WITH GREEN
 GROUNDING ELECTRODE CONDUCTOR IN ADDITION TO CIRCUIT SHOWN, MINIMUM #12
 AWG COPPER.
- ——8—— BRANCH CIRCUIT WITH #8 AWG WIRING IN CONDUIT SIZED AS PER N.E.C. FOR NUMBER OF CONDUCTORS SHOWN. NUMBER INDICATES CONDUCTOR SIZE.
- —LS— LIFE SAFETY CIRCUIT.
- ——D—— DIMMING CONTROL WIRING ALONG WITH LIGHTING CIRCUIT. PROVIDE AS PER MANUFACTURER'S RECOMMENDATIONS.

FIRE ALARM SYSTEM SYMBOLS:

- FACP FIRE ALARM SYSTEM CONTROL PANEL, PROVIDE A 20A, 120V DEDICATED CIRCUIT.
- FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL, FLUSH WALL MOUNTED, VERIFY LOCATION WITH LOCAL AUTHORITY HAVING JURISDICTION.
- FIRE ALARM SYSTEM MANUAL PULL STATION, FLUSH MOUNTED 48" A.F.F. TO THE TOP OF THE BOX
- FIRE ALARM SYSTEM SPEAKER/STROBE UNIT MARKED 'ALERT'.WALL MOUNT AT 80" A.F.F. WHERE APPLICABLE. VERIFY ALL CEILING HEIGHTS. MUST MEET 'ADA' REQUIREMENTS. STROBE TO BE CLEAR.
- WEATHERPROOF. FIRE ALARM SYSTEM SPEAKER/STROBE UNIT MARKED 'ALERT'. WALL MOUNT AT 80" A.F.F. WHERE APPLICABLE. VERIFY ALL CEILING HEIGHTS. MUST MEET 'ADA' REQUIREMENTS. STROBE TO BE CLEAR.
- FIRE ALARM SYSTEM SPEAKER/STROBE UNIT MARKED 'ALERT'. CEILING MOUNTED TO CENTER OF LAY-IN TILE WHERE APPLICABLE. STROBE TO BE CLEAR.
- FIRE ALARM SYSTEM CLEAR STROBE UNIT MARKED 'ALERT'. CEILING MOUNTED TO CENTER OF LAY-IN TILE WHERE APPLICABLE.
- FIRE ALARM SYSTEM CLEAR STROBE ONLY UNIT MARKED 'ALERT', WALL MOUNTED 80"
 A.F.F. MUST MEET "ADA" REQUIREMENTS.
- WEATHERPROOF, FIRE ALARM SYSTEM CLEAR STROBE ONLY UNIT MARKED 'ALERT', WALL
- WP MOUNTED 80" A.F.F. MUST MEET "ADA" REQUIREMENTS.
- FIRE ALARM SYSTEM HEAT DETECTOR, CEILING MOUNTED, 135° F.
- \bigoplus_{H} fire alarm system heat detector, ceiling mounted, 190° f
- \bigoplus_{CO} FIRE ALARM SYSTEM HEAT/CO COMBO UNIT, CEILING MOUNTED.
- FIRE ALARM SYSTEM SMOKE DETECTOR, CEILING MOUNTED.

 FIRE ALARM SYSTEM HEAT/SMOKE COMBO, CEILING MOUNTED.
- FIRE ALARM SYSTEM SMOKE/CO COMBO UNIT, CEILING MOUNTED.

SPRINKLER CONTRACTOR.

- FIRE ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR ON SUPPLY SIDE WITH RELAY AS REQUIRED FOR MECHANICAL UNIT SHUTDOWN.
- FIRE ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR ON RETURN SIDE WITH RELAY AS REQUIRED FOR MECHANICAL UNIT SHUTDOWN.
- FIRE ALARM SYSTEM CONNECTION TO TAMPER SWITCH, VERIFY REQUIREMENTS WITH
- FIRE ALARM SYSTEM CONNECTION TO FLOW SWITCH, VERIFY REQUIREMENTS WITH
- WEATHERPROOF ALARM BELL FOR SPRINKLER SYSTEM, COORDINATE EXACT
- FIRE ALARM SYSTEM CONNECTION TO SMOKE DAMPER. PROVIDE RELAY AS REQUIRED. DUCT DETECTOR BY MECHANICAL CONTRACTOR. VERIFY REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- LOCAL OPERATING CONSOLE FOR MASS NOTIFICATION SYSTEM.

REQUIREMENT AND LOCATION WITH SPRINKLER SUPPLIER.

POWER SYSTEMS SYMBOLS:

- DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH MOUNTED 18" A.F.F. TO THE CENTER OF THE BOX. COORDINATE LOCATION WITH ARCHITECT'S INTERIOR ELEVATION DRAWINGS. ? DENOTES WHICH TYPE, IF ANY. SEE LIST BELOW FOR MORE DETAILS.
- DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH MOUNTED 24" A.F.F. TO THE CENTER OF THE BOX. COORDINATE LOCATION WITH ARCHITECT'S INTERIOR ELEVATION DRAWINGS. ? DENOTES WHICH TYPE, IF ANY. SEE LIST BELOW FOR MORE DETAILS.
- DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH MOUNTED AT 48" A.F.F. TO THE TOP OF THE BOX OR 4" ABOVE BACKSPLASH TO CENTERLINE UNLESS OTHERWISE NOTED ON DRAWINGS. COORDINATE LOCATION WITH ARCHITECT'S INTERIOR ELEVATION DRAWINGS. REFER TO ARCHITECTURAL DETAILS. ? DENOTES WHICH TYPE, IF ANY. SEE LIST BELOW FOR MORE
 - <u>'PE DESCRIPTION</u>
 F GROUND-FAULT CIRCUIT INTERRUPTING TYPE.

CAPABILITIES. 2'-0" A.F.G.

- WP WEATHERPROOF BOX AND COVER WITH GROUND FAULT INTERRUPTING
- CP DUPLEX RECEPTACLE FOR COPIER ON DEDICATED CIRCUIT.
- ESD DUPLEX RECEPTACLE WITH GROUNDING CONNECTION FOR ELECTROSTATIC DISCHARGE PORT.
- EP DUPLEX RECEPTACLE WITH EXPLOSION PROOF IN-USE COVER.
- M MICROWAVE RECEPTACLE, COORDINATE LOCATION ABOVE COUNER OR IN CASEWORK WITH ARCHITECTURAL ELEVATIONS. RECEPTACLE TO BE GROUND-FAULT CIRCUIT INTERRUPTING TYPE IF LOCATED IN KITCHEN OR WITHIN 6'-0" OF ANY SINK.
- REF REFRIGERATOR RECEPTACLE WITH GROUND FAULT INTERRUPTING CAPABILITIES, TO BE MOUNTED BEHIND REFRIGERATOR.
- TR TAMPER-RESISTANT LISTED TYPE.
- TV# DUPLEX RECEPTACLE(S) FOR TVS MOUNTED IN RECESSED WALL BOX, NEMA 5-20R, # CORRESPONDS TO TYPE, SEE DETAILS FOR ADDITIONAL REQUIREMENTS.
- U USB TYPE DUPLEX RECEPTACLE WITH TWO (2) 3A, 5Vdc OUTPUTS. TV# DUPLEX RECEPTACLE(S) FOR TVS MOUNTED IN RECESSED WALL BOX, NEMA 5-20R, # CORRESPONDS TO TYPE, SEE DETAILS FOR ADDITIONAL REQUIREMENTS.
- VM VENDING MACHINE RECEPTACLE ON A GROUND-FAULT TYPE CIRCUIT BREAKER, TO BE MOUNTED BEHIND VENDING MACHINE.
- DOUBLE DUPLEX RECEPTACLE, QUAD, TWO NEMA 5-20R, FLUSH MOUNTED 18" A.F.F. TO THE CENTER OF THE BOX IN ONE TWO GANG BOX.
- DOUBLE DUPLEX RECEPTACLE, QUAD, TWO NEMA 5-20R, FLUSH MOUNTED 24" A.F.F. TO THE CENTER OF THE BOX IN ONE TWO GANG BOX.

 DUPLEX RECEPTACLE FOR WATER COOLER. COORDINATE LOCATION AND HEIGHT WITH
- EWC PLUMBING TRADE. RECEPTACLE SHALL BE CONCEALED BEHIND WATER COOLER.
 RECEPTACLE SHALL BE ON GROUND-FAULT TYPE CIRCUIT BREAKER.
- NEMA 5-20R, FLUSH MOUNTED AT 18" A.F.F. TO CENTER OF BOX.

 SINGLE 30A RECEPTACLE, NEMA L5-30, FLUSH MOUNTED AT 18" A.F.F. TO THE CENTER OF THE

DUPLEX RECEPTACLE FOR ICE MAKER WITH GROUND FAULT INTERRUPTING CAPABILITIES.

- SINGLE 30A RECEPTACLE , NEMA L5-30, FLUSH MOUNTED AT 18" A.F.F. TO THE CENTER OF THE
- BOX FOR DATA RACK CONNECTION.

 SINGLE 30A RECEPTACLE, NEMA L5-30, FLUSH MOUNTED AT 24" A.F.F. TO THE CENTER OF THE
- c MANUAL MOTOR STARTER, SINGLE POLE, 1 SPEED, WITH PILOT LIGHT MOUNTED 48" A.F.F. TO
- THE CENTER OF THE BOX UNLESS NOTED OTHERWISE.
- JUNCTION BOX, MOUNTED ABOVE CEILING OR IN JOIST SPACE. SIZE AS NOTED OR REQUIRED.
- JUNCTION BOX, WALL MOUNTED, MOUNTING HEIGHT AND SIZE AS NOTED OR REQUIRED.

 JUNCTION BOX, FLEX CONN. TO EQUIPMENT. MOUNTING HEIGHT & SIZE AS NOTED OR
- MOTOR STARTER FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL. COORDINATE
- EXACT LOCATION WITH MECHANICAL TRADE.

 CIRCULATING PUMP AND TIME CLOCK FOR WATER HEATER BY PLUMBING CONTRACTOR.
- ELECTRICAL CONTRACTOR TO MAKE CONNECTIONS TO EQUIPMENT.

 T#1

 DISCONNECT SWITCH. SIZE AS INDICATED ON GENERAL EQUIPMENT SCHEDULE.
- MOTOR, SIZE AND CHARACTERISTICS AS NOTED.
- SERVICE ENTRANCE PANELBOARD.

 LIGHTING OR POWER BRANCH CIRCUIT PANELBOARD.
- UTILITY COMPANY METER.
- ELECTRICAL CONNECTION FOR MOTORIZED DAMPER, 120 VOLT. VERIFY EXACT LOCATION WITH MECHANICAL CONTRACTOR.

AUXILIARY SYSTEM SYMBOLS:

- TELEPHONE/DATA BACKBOARD, WALL MOUNTED 3/4" PLYWOOD 4'x8' UNLESS NOTED OTHERWISE.

 PLYWOOD TO BE PAINTED WITH 2 COATS OF FIRE RETARDANT PAINT BOTH SIDES & ALL EDGES.

 BACKBOARD SHALL ALSO BE USED FOR ACCESS CONTROLS.
- TELEPHONE/DATA, SINGLE GANG OUTLET, FLUSH MOUNTED AT 18" A.F.F. TO THE CENTER OF THE BOX WITH 3/4" CONDUIT STUBBED-UP INTO ACCESSIBLE CEILING SPACE IN CORRIDOR AND TERMINATE WITH PLASTIC BUSHING. PROVIDE FOUR (4) CAT 6A CABLES TO DATA RACK. IF A # IS NOTED, IT REPRESENTS THE NUMBER OF DROPS REQUIRED.
- TV OUTLET WITH 1 1/4" CONDUIT STUBBED-UP INTO ACCESSIBLE CEILING SPACE AND TERMINATED TV# WITH PLASTIC BUSHING. # CORRESPONDS TO TYPE, SEE DETAILS FOR ADDITIONAL REQUIREMENTS.
- TELEPHONE/DATA, SINGLE GANG OUTLET, FLUSH MOUNTED AT 48" A.F.F. TO THE TOP OF THE BOX OR 4" ABOVE BACK SPLASH TO CENTERLINE UNLESS NOTED OTHERWISE. STUBB 3/4" CONDUIT INTO ACCESSIBLE CEILING SPACE IN CORRIDOR AND TERMINATE WITH PLASTIC BUSHING. PROVIDE TWO (2) CAT 6A CABLES TO DATA RACK. IF A # IS NOTED, IT REPRESENTS THE NUMBER OF DROPS
- TELEPHONE/DATA, SINGLE GANG OUTLET, FLUSH MOUNTED AT 24" A.F.F. TO THE TOP OF THE BOX WITH 3/4" CONDUIT STUBBED-UP INTO ACCESSIBLE CEILING SPACE IN CORRIDOR AND TERMINATE WITH PLASTIC BUSHING. PROVIDE TWO (2) CAT 6A CABLES TO DATA RACK. IF A # IS NOTED, IT REPRESENTS THE NUMBER OF DROPS REQUIRED.
- WIRELESS ACCESS POINT. PROVIDE SINGLE GANG OUTLET MOUNTED ABOVE ACCESSIBLE CEILING.

 PROVIDE CAT 6A CABLE TO DATA RACK.

SECURITY/ACCESS CONTROL SYSTEM SYMBOLS:

- DOOR CONTACT RECESSED IN DOOR AND FRAME, SUPPLIED BY OWNER. SEE ACCESS CONTROL DETAIL FOR CONDUIT REQUIREMENTS.
- SECURITY KEYPAD, SUPPLIED BY ADVANTOR SYSTEMS. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE GANG BOX MOUNTED 48" A.F.F. TO THE TOP OF THE BOX WITH 3/4" c. UP TO ABOVE CEILING IN ROOM AND ROUTED TO IDS PANEL LOCATION. VERIFY THESE REQUIREMENTS BEFORE ROUGH-IN.

GROUND SYSTEM SYMBOLS:

- MASTER GROUND BAR, 20"x4"x1/4" THICK, PRE-DRILLED, WITH INSULATING STAND-OFF MOUNT. BOND TO THE SERVICE ENTRANCE GROUND WITH #3/0 INSULATED GROUND.
- GRB

 DATA ROOM GROUND BAR, 20"x4"x1/4" THICK, PRE-DRILLED, WITH INSULATING STAND-OFF MOUNT. PROVIDE #3/0 INSULATED GROUND FROM BUILDING ELECTRIC SERVICE TO GROUND ELECTRODE SYSTEM DATA ROOM GROUND BAR.

| | LIGHTING FIXTURE SCHEDULE - DSP STORAGE | | | | | | | | | |
|--------|---|-------------------------|----------------|---------|--------|-----------------|----------------------|--|--|--|
| SYMBOL | MANUFACTURER | CATALOG NUMBER | LAMP CCT | WATTAGE | CRI | LUMEN OUTPUT | MOUNTING | DESCRIPTION | | |
| F | H.E. WILLIAMS | 75L-4-L65-8-40-XX | LED 4000K | 54 W | 80 CRI | 6500 | SURFACE | 48" LONG LED STRIP FIXTURE WITH STEEL HOUSING. | | |
| Н | H.E. WILLIAMS | GC-L190-840-G | LED 4000K | 149 W | 80 CRI | 18,320 | CEILING SUSPENDED | LED HIGH BAY. | | |
| WF | BEACON | TRV-D-60L-136-4K7-4-UNV | LED 4000K | 136 W | 70 CRI | 15,682 | SURFACE | EXTERIOR LED WALL PACK. | | |
| WP | H.E. WILLIAMS | VWPV-L60-7-40-TFT-XX | LED 4000K | 70 W | 70 CRI | 6000 | SURFACE | EXTERIOR LED WALL PACK. | | |
| Х | BRUNO | BRU-HT-LG-U-M | LED W/ UNIT | 10 W | | | UNIVERSAL | SINGLE OR DOUBLE FACE LED EXIT SIGN, | | |

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

- 1. ALL LUMINAIRES AND INSTALLATION SHALL BE IN ACCORDANCE WITH NEC, NFPA AND LOCAL CODES. ALL LUMINAIRES SHALL BE UL LISTED AND INSTALLED IN ACCORDANCE WITH THE UL LISTING.
- 2. LUMINAIRES SHALL BE FURNISHED COMPLETE WITH THE PROPER LAMP BASE OR PIN RECEPTORS, WIRING COMPONENTS, LAMPS, SUPPORTING FRAMES AND DEVICES, ETC., FOR A COMPLETE INSTALLATION.
- 3. ALL LUMINAIRE DEVICES, COMPONENTS, FITTINGS, SUPPORTS, ETC., SHALL BE COORDINATED TO PROVIDE A COMPLETE UL LISTED INSTALLATION.
- 4. ALL LUMINAIRES BALLAST, DRIVERS, LAMPS, ETC SHALL BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM OR DIMMING CONTROL SYSTEM PROVIDED.
- 5. SECURE EACH LAY-IN LUMINAIRE AT TWO LOCATIONS TO THE CEILING GRID. PROVIDE BOLTS, SCREWS, RIVETS OR APPROVED CLIPS FOR USE WITH THE TYPE CEILING AND LUMINAIRE INSTALLED.
- 6. ALL LUMINAIRES IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE INSTALLED TO CLEAR ELECTRICAL EQUIPMENT, DUCT, PIPING, ETC., SUSPEND BELOW OBSTRUCTION WHEN CONFLICTS OCCUR.
- ADJUSTABLE AIMING LUMINAIRES SHALL BE ADJUSTED FOR FINAL APPROVAL AT NIGHT. OWNER, ARCHITECT
 AND ENGINEER RESERVES THE RIGHT TO HAVE THE CONTRACTOR ADJUST LIGHTING TO THEIR SATISFACTION.
- 8. ALL SURFACE OR SUSPENDED LUMINAIRES SHALL HAVE JOINING PLATES, END CAPS, CANOPIES, ETC.
- EXACT SIZE AND STYLE OF POLE.

 10. PROVIDE ALL LUMINAIRES CONNECTED TO A DIMMER SWITCH OR MODULE WITH A DIMMING DRIVER.

9. ALL EXTERIOR POLES SHALL BE ALUMINUM WITH HANDHOLES. COORDINATE WITH LIGHTING FIXTURE SCHEDULE

11. ALL INTERIOR LUMINAIRES SHALL BE PROVIDED WITH 3500K COLOR TEMPERATURE LAMPS OR LEDS. ALL EXTERIOR

LUMINAIRES SHALL BE PROVIDED WITH 4000K COLOR TEMPERATURE LAMPS OR LEDS.

- 12. LUMINAIRES WITH TWO SUB-SCRIPTS, AN "a" AND "b", SHALL HAVE OUTSIDE TWO LAMPS CONTROLLED BY SWITCH OR RELAY POLE "a" AND INSIDE LAMP OR LAMPS CONTROLLED BY SWITCH OR RELAY POLE "b". SIMILARLY FOR OTHER SETS OF SUB-SCRIPTS SUCH AS "c, d, e, f, ETC."
- 13. ARCHITECT RESERVES THE RIGHT TO SELECT ALL COLORS FOR LUMINAIRES, POLES, MOUNTING ACCESSORIES, ETC. DURING SHOP DRAWING REVIEW.
- 14. COORDINATE LUMINAIRE MOUNTING WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
- 15. PROVIDE ALL EXIT SIGNS WITH DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.

16. CONTRACTOR SHALL PROVIDE ALL SLOPE ADAPTERS, FLANGE KITS, TRIMS, AND ALL OTHER MOUNTING

- ACCESSORIES AS NEEDED TO MOUNT EACH LUMINAIRE IN CEILINGS AS SHOWN. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.

 17. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LUMINAIRES AND EXIT SIGNS.
- 18. ALL LUMINAIRES TO BE PROVIDED WITH A 10 YEAR WARRANTY.

19. APPROVED EQUAL LIGHTING MANUFACTURERS ARE HUBBELL LIGHTING, PHILLIPS AND ACUITY.

GENERAL COORDINATION NOTES:

- 1. THE CONTRACT DOCUMENTS ARE GENERALLY DIAGRAMMATIC IN NATURE WITH RESPECT TO MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND SECURITY/VOICE DATA SYSTEMS. NOT EVERY BEND, OFFSET AND DIRECTION CHANGE IS SHOWN IN THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS REPRESENT THAT THESE SYSTEMS WILL FIT IN THE SPACES ALLOTTED; HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASSIGN SPACE PRIORITIES AND LAY OUT AND ROUTE THE SYSTEMS SO THEY WILL FIT EFFICIENTLY IN THE ALLOTTED SPACES AND ALLOW FOR CONVENIENT AND CODE-CONFORMING ACCESS TO ALL VALVES, DAMPERS AND OTHER
- 2. THE LAYOUT OF UTILITY ROOMS IS ALSO DIAGRAMMATIC IN NATURE. THE CONTRACT DOCUMENTS REPRESENT THAT EQUIPMENT IDENTIFIED TO BE INSTALLED IN UTILITY ROOMS WILL FIT IN THE SPACES ALLOTTED. HOWEVER, BECAUSE THE CONTRACTOR MUST SUBMIT AND PROVIDE FOR EQUIPMENT TO BE INSTALLED IN UTILITY ROOMS, IT
- IS THE CONTRACTOR'S RESPONSIBILITY TO LAY-OUT THE EQUIPMENT ROOM SUCH THAT ALL EQUIPMENT WILL FIT.

 3. THE CONTRACTOR MUST EXAMINE ALL OF THE CONTRACT DRAWINGS, ESPECIALLY ARCHITECTURAL FOR CEILING SPACE DIMENSIONS, AND STRUCTURAL FOR BEAM/COLUMN OBSTRUCTIONS, AND MAKE ALLOWANCES IN THE CONTRACTOR'S PLANNED COORDINATION EFFORTS, WORK SEQUENCE, AND ROUTING OF THE SYSTEMS.
- 4. ROUTING SHOWN FOR PIPES, DUCTS, AND CONDUITS ON DRAWINGS ARE SHOWN BY GRAPHIC SYMBOLS ONLY; MAKE RUNS PARALLEL WITH LINES OF BUILDING.
- 5. UTILIZE SPACES EFFICIENTLY TO MAXIMIZE ACCESSIBILITY FOR OTHER INSTALLATIONS, FOR MAINTENANCE, AND FOR REPAIRS.
- 6. CONCEAL PIPES, DUCTS, AND WIRING IN FINISHED AREAS, UNLESS OTHERWISE INDICATED; COORDINATE LOCATIONS OF FIXTURES AND OUTLETS WITH FINISH ELEMENTS, SIZE DUCTWORK, MECHANICAL PIPE, PLUMBING, ELECTRICAL, AND SPRINKLER SYSTEM COMPONENTS AS SHOWN IN THE CONTRACT DOCUMENTS AND DRAWINGS. DOWNSIZING OF MECHANICAL/ELECTRICAL (M/E) SYSTEMS IS NOT PERMITTED.
- 7. RELOCATE LIGHTS IN MECHANICAL ROOMS AROUND DUCTWORK AS REQUIRED TO BEST LIGHT THE SPACE AND HVAC EQUIPMENT.

BEAM OR OTHER

-HOOK WITH

POSITIVE LATCH.

FIXED CONNECTION.—

STRUCTURAL MEMBER.-

GENERAL ELECTRICAL NOTES:

- 1. EXISTING SERVICE TO THE BUILDING IS 120/208 VOLT, 3 PHASE, 4 WIRE, WYE.
- LOCAL CODES.

 3. CONTRACTOR SHALL PROVIDE ALL MATERIAL NECESSARY TO FINALIZE A NEAT, COMPLETE, AND PROPERLY WORKING ELECTRICAL SYSTEM WHICH CONFORMS TO ALL CODES AND TO THE REQUIREMENTS OF ANY OTHER ORGANIZATION OR AGENCY HAVING JURISDICTION OVER THIS

2. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL STATE AND

- 4. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN SWITCHES.
- 5. VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
- 6. VERIFY THE EXACT LOCATION OF COUNTERTOPS AND BACKSPLASHES ON ARCHITECTURAL DETAILS AND/OR CASEWORK SHOP DRAWINGS AND ADJUST SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS AS REQUIRED TO AVOID CONFLICTS.
- 7. CHECK ALL LIGHTING FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN. SUPPORT OF ALL LIGHT FIXTURES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. FIXTURES SHALL BE SUPPORTED INDEPENDENT OF CEILING FROM STRUCTURAL MEMBERS OF THE BUILDING.
- 8. PROVIDE PLASTER FRAMES FOR ALL RECESSED FIXTURES AS REQUIRED.

SCHEDULE UNLESS NOTED OTHERWISE.

CLEARANCES AS PER N.E.C.

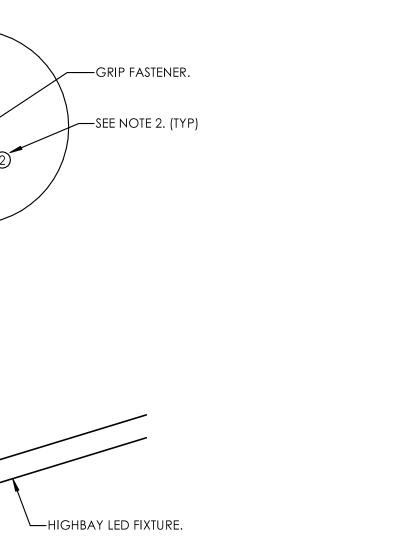
- CHECK THE CORRESPONDING MECHANICAL SHEETS AND INSTALL PROPER SERVICE AND CONNECTIONS TO ALL MECHANICAL SYSTEMS SHOWN THEREON, REGARDLESS OF ITS BEING OR NOT BEING SHOWN ON ELECTRICAL DRAWINGS.
- 10. ALL CONDUIT SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED/SHOWN EXPOSED.
- 11. WHERE CONDUIT IS EXPOSED, IT SHALL BE ROUTED NEXT TO THE WALL OR CEILING AND MAKE 90 DEGREE TURNS ONLY.
- 12. PROVIDED FUSES IN FUSIBLE DISCONNECTS PER EQUIPMENT MANUFACTURE'S REQUIREMENTS.
 13. A GREEN EQUIPMENT GROUNDING CONDUCTOR (SIZED PER N.E.C.) SHALL BE INSTALLED IN EACH AND EVERY CONDUIT. INCLUDING BUT NOT LIMITED TO; BRANCH CIRCUITS, SWITCH LEGS,
- FEEDERS. ETC.

 14. ALL WIRING DEVICES SHALL BE MOUNTED AS INDICATED IN THE SPECIFICATIONS UNLESS NOTED OTHERWISE ON DRAWINGS. ALL LIGHTING FIXTURES SHALL BE MOUNTED AS NOTED IN THE FIXTURE
- 15. PROVIDE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR ALL BATHROOM AND OUTSIDE RECEPTACLES PER N.E.C. ALL RECEPTACLES IN THE KITCHEN SHALL BE "GF" TYPE AS PER N.E.C. EXCEPT FOR THE REFRIGERATOR.
- 16. CONTRACTOR SHALL COORDINATE THE PLACEMENT OF DATA OUTLETS WITH OWNER PRIOR TO INSTALLATION.
- CONDUIT, OR MC CABLE.

 18. ALL DISCONNECT SWITCHES MUST BE INSTALLED AS REQUIRED TO MAINTAIN PROPER WORKING

17. ALL WIRING ROUTED IN RETURN AIR PLENUM UNDER MECH UNIT MUST BE ROUTED IN METAL

- 19. WHERE ACTUAL LOADS OF INSTALLED EQUIPMENT VARY FROM THOSE LISTED ABOVE (OR WHERE LOADS ARE ADDED) THE CONTRACTOR SHALL VERIFY AND ADJUST ACCORDINGLY ALL SERVICE ENTRANCE PANELS, CONDUCTORS, EQUIP., ETC. IN COMPLIANCE WITH ARTICLES 210, 215, 220 &
- 20. ALL LOW VOLTAGE, AUXILIARY EQUIPMENT AND/OR STRUCTURED CABLING SYSTEMS WILL MEET ASSOCIATED N.E.C. ARTICLES INSTALLATION REQUIREMENTS.



1 HIGHBAY LED FIXTURE SUPPORT DETAIL Eo.1B NOT TO SCALE

——AIRCRAFT CABLE

- 1. ALL CABLES ARE TO BE STRAINED GALVANIZED STEEL WITH A MIN. DIA. OF 0.080".
- 2. PASS FREE END THROUGH GRIP FASTENER.

SPECIFIED LENGTH.

- 3. FEED FREE END AROUND UNISTRUCT.4. RETURN FREE END THROUGH GRIP FASTENER AND ADJUST TO
- 5. ELECTRICAL CONTRACTOR MUST SUBMIT A DETAIL OF LIGHTING FIXTURE SUPPORT METHOD AND A LIST OF MATERIALS TO BE USED AS PER MANUFACTURE'S RECOMMENDATIONS.
- 6. TYPICAL SUPPORT METHOD TO BE USED ON BOTH ENDS OF THE

7. TYPICAL DETAIL FOR FIXTURE TYPES HB AND WSL.

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Project No: 19-013

ARCHITECTURE & INTERIOR DESIGN
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Rev. Description Date

Job Number

19084

Date

10 April 2025

Drawn By

JM

Project Title

Checked By

EPLOYABLE PARTS STORAGE FACILIT

Sheet Title
ELECTRICAL
LEGEND & NOTES

Sheet Number

E0.1B

No. 93579
PROFESSIONAL

9/6/2021

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PANELBOARD SCHEDULE NOTES: (APPLIES TO ALL PANELBOARDS)

1. PANELBOARD DESIGNATIONS INDICATED IN SCHEDULES ARE THOSE OF G.E COMPANY EQUAL EQUIPMENT BY

2. EACH PANELBOARD SHALL HAVE AN INTEGRATED EQUIPMENT RATING EQUAL TO THE LOWEST A.I.C. OF ANY

3. WHERE CURRENT LIMITING CIRCUIT BREAKERS ARE USED. THEY SHALL BE SERIES RATED FOR DOWNSTREAM

PROTECTION. SUBMITTAL DATA SHALL INCLUDE A CURRENT U.L. APPROVED TABLE OF SERIES CONNECTED

4. AT EACH FLUSH MOUNTED PANELBOARD PROVIDE THREE (3) EACH 1/2" CONDUITS AND THREE (3) EACH, 3/4"

5. ALL PANELS 400A AND LARGER SHALL HAVE DOOR IN DOOR CONSTRUCTION. DOOR SHALL BE INSTALLED

8. CONTRACTOR TO PROVIDE ALL BRANCH CIRCUIT NUMBERS USING PERMANENT CIRCUIT MARKERS WITH THE PROPER CIRCUIT NUMBER ATTACHED NEXT TO EACH BREAKER. STICK ON NUMBERS WILL NOT BE APPROVED.

ON SPECTRA BRANCH BREAKERS, CONTRACTOR TO PROVIDE FIELD MOUNTED PHENOLIC NAMEPLATE

10. PANEL SHALL HAVE SURGE PROTECTION DEVICE. SURGE PROTECTION DEVICE MUST BE INSTALLED INTERNALLY

to the electrical distribution equipment and shipped from the manufacturer's factory as a

COMPLETE U.L. LISTED ASSEMBLY. PANELBOARD SPDS SHALL BE GENERAL ELECTRIC TMENVNE/100/200. OR

EQUAL, VOLTAGES FOR DEVICES SHALL BE INDICATED ON THE PANELBOARD SCHEDULES AND SINGLE LINE

14. THE TERMINATION POINT OF THE FEEDER SERVING EACH ASSEMBLY SHALL BE AT THE NEAREST POINT OF FEEDER

15. PROVIDE THE PROPERLY SIZED CONDUCTOR TERMINATION POINTS OR LUGS (MULTIPLE LUGS WHEN PARALLEL

16. EACH PANELBOARD SHALL HAVE A NAMEPLATE AS SHOWN IN DETAIL. ENGINEER WILL NOT ACCEPT JOB UNTIL

17. PROVIDE TYPED CIRCUIT DIRECTORY THAT INDICATES WHAT EACH CIRCUIT IS SERVING AND FOR LIGHTING AND

18. ALL PANELBOARDS SHALL BE CLEARLY MARKED TO COMPLY WITH NEC 110.16 REGARDING POTENTIAL HAZARDS

RECEPTACLE CIRCUITS THE ROOM NUMBERS THAT CIRCUIT IS SERVING SHALL BE INCLUDED IN DIRECTORY.

19. ELECTRICAL CONTRACTOR SHALL PROVIDE SHORT CIRCUIT RATING, A.I.C. LABEL PER N.E.C. 110.24.

20. PROVIDE FACTORY INSTALL POWER METERING EQUIPMENT EQUAL TO G.E. COMPANY MODEL #EPM2000.

ENTRY TO MINIMIZE CONDUCTOR FILL IN THE CAN. COORDINATE TOP/BOTTOM FEED PANELBOARD PROVISIONS

12. PROVIDE U.L.S.E. (U.L. SERVICE ENTRANCE) LABEL. THIS NOTE ONLY APPLIES TO PANELS NOTED SO.

CORRECTLY PER MANUFACTURERS INSTRUCTIONS. WHEN HINGE DOOR IS OPENED, INTERIOR DEAD FRONT

CONDUITS STUBBED UP TO ABOVE ACCESSIBLE CEILING AND TERMINATE FOR FUTURE USE.

7. ALL CIRCUIT BREAKERS 100A AND ABOVE SHALL BE SOLID STATE BREAKERS TYPE LSI.

9. ALL BLANK SPACES SHALL BE ASSUMED BUSSED SPACE FOR EACH PANELBOARD.

RATINGS OF ALL CIRCUIT BREAKERS TO BE USED. ALL 120/208V, 3PH, 4W PANELS SHALL BE SERIES RATED UNLESS

OTHER MANUFACTURERS WILL BE CONSIDERED IF OTHER MANUFACTURER'S PANELS ARE TO BE USED,

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL SPACE REQUIREMENTS.

CIRCUIT BREAKER IN PANEL.

INDICATING EACH LOAD.

6. ALL BRANCH CIRCUIT BREAKERS SHALL BE BOLT ON TYPE

DIAGRAM. THIS NOTE ONLY APPLIES TO PANELS NOTED SO.

FEEDERS ARE USED) FOR THE NUMBER AND SIZE CIRCUITS INDICATED.

11. ALL TWO SECTION PANELS SHALL HAVE EQUAL CAN HEIGHTS

13. A.I.C. RATING, SR STANDS FOR SERIES RATED.

WITH EACH FEEDER INSTALLATION.

THESE NAMEPLATES ARE PROVIDED.

CONDUIT.—

FACE SCREW.—

WIRE NUT (TYPICAL).—

GROUNDING SCREW # 10-32x3/8". SLOTTED

HEXAGON HEAD, WASHER

NOTED OTHERWISE.

—OUTLET BOX OR

OUTLET STRIP.

DANNELLY FIEL MONTGOMERY

ELECTRICAL DETAILS

Sheet Number

E0.2B

9/6/2021

SYMBOL THE MANUFACTURER'S FACTORY AS A COMPLETE U.L. LISTED ASSEMBLY. PANELBOARD SPD 30/4G 120/4

POWER RISER DIAGRAM - DSP STORAGE

EXISTING ELECTRICAL

METER.——

EO.2B NOT TO SCALE NAMEPLATE COLOR

EXTERIOR WALL

'MTS'

'EAID' GENERATOR

CONNECTION

FINISHED GRADE/FIRST FLOOR

-LETTER (FILL) COLOR NORMAL = BLACK.SHALL BE WHITE FOR ALL EMERGENCY = RED.— NAMEPLATES. -INDICATE VOLTAGE, INDICATE WHERE THIS NUMBER OF PHASES, AND EQUIPMENT IS FED FROM. PANEL MP NUMBER OF WIRES. (TRANSFER SWITCHES 120/208V, 3PH, 4W WILL HAVE TWO (2) LINES.)— FED FROM ATS —ATTACH NAMEPLATE TO ELECTRICAL EQUIPMENT PHASE A - BLACK, PHASE B - RED, WITH TWO (2) SCREWS. PHASE C - BLUE, NEUTRAL - WHITE LETTERING SHALL BE MINIMUM OF 3/8" HIGH.—

ELECTRICAL 147

PANEL

120/208V

3PH, 4W

PANEL

120/208V

3PH, 4W

120/208V

3PH, 4W

PANEL

120/208V

3PH, 4W

SEE NOTE 2.

THIS DETAIL IS TYPICAL FOR ALL ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO PANELS, DISCONNECTS, ETC.

2. NAMEPLATES SHALL BE MOUNTED NEAR THE TOP AND CENTER OF EQUIPMENT.

SELECTRICAL EQUIPMENT NAMEPLATE DETAIL

F → O NEXT DEVICE

FR TO NEXT DEVICE SEE NOTE 10.— —FIRE ALARM CONTROL PANEL TO BE INSTALLED IN BASE SUPPLY 120V POWER -PROJECT. (SEE NOTE 9.) FINISHED FLOOR

FIRE ALARM SYSTEM RISER DIAGRAM

PROVIDE WIRING IN **RED** CONDUIT PER MANUFACTURER'S REQUIREMENTS.

2. SEE FLOOR PLAN FOR LOCATION AND QUANTITY OF DEVICES.

3. COORDINATE LOCATIONS AND CONNECTIONS OF HVAC

- SHUTDOWN RELAYS WITH HVAC/CONTROLS CONTRACTOR. 4. FIRE ALARM SYSTEM SHALL BE ADDRESSABLE.
- 5. IF NOT SHOWN ON FLOOR PLANS, PROVIDE 120 VOLT CIRCUIT FOR
- FIRE ALARM CONTROL PANEL POWER.
- 6. DEVICES SHALL BE RED WITH "ALARM" ENGRAVING TO COMPLY WITH FIRE ALARM USE.
- 7. FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION PER IBC 907.6.5.
- 8. ALL ACCESS CONTROLLED DOORS THAT ARE LOCKED AND A REQUIRED MEANS OF EGRESS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM PER NFPA 72-21.9.
- 9. CIRCUIT BREAKER TO HAVE RED HANDLE AND IS TO BE LOCKABLE.

10. SURGE PROTECTION DEVICE AS REQUIRED WITH LOCKOUT KIT

FIRE ALARM / MASS

NOTIFICATION SYSTEM

FUNCTIONAL MATRIX

MNS LOC MICROPHONE ACTIVE - PRIORITY 3

MNS DIGITAL MESSAGE 1-3 ACTIVE - PRIORITY 4-6

MNS DIGITAL MESSAGE 5-8 ACTIVE - PRIORITY 7-10

FIRE ALARM SYSTEM GENERAL NOTES:

1. THE FIRE ALARM SYSTEM SHALL BE A COMPLETE SUPERVISED DETECTION AND ALARM SYSTEM. PROVIDE PRIMARY POWER CIRCUITS AND ALARM NOTIFICATION AND INITIATING CIRCUITS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

PANEL

PANEL

SPD

120/208V

3PH, 4W

SPD

(SECT. 1) | (SECT. 2) |

120/208V | 120/208V |

3PH, 4W 3PH, 4W

NOTE: ALL HALFTONE EQUIPMENT AND FEEDERS TO BE INSTALLED AS PART OF THE BASE SUPPLY PROJECT

INVERTER

'INV'

SEE NOTE 1

- 2. INSTALLATION SHALL COMPLY WITH ADA, NEC, NFPA, AND UL.
- 3. ALL SYSTEM COMPONENTS, ENCLOSURES, FRAMES, SURGE ARRESTORS, ETC., SHALL BE
- 4. THE FIRE ALARM WIRING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR CLASS "B" SYSTEM AND AS FOLLOWS: PRIMARY POWER - 120V AC NOTIFICATION APPLIANCE CIRCUITS (NAC) - 24V DC SIGNALING LINE CIRCUIT (SLC) - 24V DC
- 5. ALL CLASS `B' CIRCUITS SHALL BE INSTALLED SUCH THAT THE OUTGOING AND RETURN CONDUCTORS, EXITING FROM AND RETURNING TO THE CONTROL UNIT RESPECTIVELY, ARE ROUTED SEPARATELY AND NOT RUN IN THE SAME CABLE OR RACEWAY.
- 6. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, APPLICABLE STANDARDS AND ACCESSIBLE FOR VISUAL INSPECTION AND MAINTENANCE. WIRING DIAGRAMS SHALL BE SECURED FROM THE SYSTEM MANUFACTURER AND INSTALLED ACCORDINGLY TO MEET THE SPECIFIED TYPES.
- 7. A "CERTIFICATE OF COMPLETION" IN ACCORDANCE WITH NFPA 72 SHALL BE FURNISHED PRIOR TO FINAL ACCEPTANCE.
- 8. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND PROVIDING ALL FIRE ALARM DEVICE QUANTITIES FROM AUXILIARY DRAWINGS. DO NOT USE THIS RISER FOR DEVICE COUNTS.
- 9. PROVIDE ADDITIONAL NOTIFICATION APPLIANCE CIRCUIT PANELS, AMPLIFIERS, POWER SUPPLIES, ETC. FOR FUTURE CAPACITY TO HAVE SYSTEM WORK CORRECTLY AS ONE SYSTEM.
- 10. PROVIDE EMERGENCY BATTERIES CAPABLE OF RUNNING THE COMPLETE FIRE ALARM System in alarm mode.
- 11. ALL WIRING TO BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC WITH A MINIMUM SIZE OF 3/4". ALL FIRE ALARM CONDUIT SHALL BE RED.
- 12. PROVIDE ALL FIRE ALARM JUNCTION BOXES WITH RED COVER, STENCIL THE LETTERS "FA" IN 2" HIGH LETTERS ON EACH BOX COVER.
- 13. FIRE ALARM SYSTEM PROVIDER IS RESPONSIBLE FOR PROVIDING SIGNAL LINE BOOSTERS AS REQUIRED FOR SYSTEM TO FUNCTION PROPERLY.

AUXILIARY

FUNCTIONS

NOTIFICATION

CEILING LINE FIRE ALARM SPEAKER/STROBE. — THERMOSTAT.—

SAW ROOM 134

PANEL PANEL

(SECT. 1) (SECT. 2)

120/208V | 120/208V

SPD

TRIP | POLE

20 A

TOTAL AMPS:

3PH, 4W | 3PH, 4W

DIRECTORY

LIGHTING DSP STORAGE

LIGHTING DSP STORAGE

REC. DSP STORAGE D101

REC. DSP STORAGE D101

SPARE

SPARE

SPARE SPARE

SPARE

SPARE

SPARE

SUPPLY FAN - VSF-7

SUPPLY FAN - VSF-8

MLO

SURFACE

VOLTAGE:

MAIN BREAKER:

MOUNTING:

HIGH VOLUME FAN - HVLSF-4 30 A

120/208, 3PH, 4W

MOTORIZED DAMPERS - DSP STOR. 20 A

OPEN OFFICE 122

PANEL

120/208V

3PH, 4W

HAZMAT BLDG

PANEL

120/208V

3PH, 4W

NEMA 3R

SPD

745 VA 600 VA

800 VA 500 VA

OVA OVA

OVA OVA

793 VA 793 VA

1921 VA | 793 VA

TOTAL LOADS: 7737 VA 7588 VA

65 A

RQ

65K

100 A

NEMA 1

PANEL TYPE:

A.I.C. RATING:

ENCLOSURE:

MAIN BUS:

793 VA

PANELBOARD SCHEDULE

596 VA 600 VA

800 VA 500 VA

0 VA 0 VA

0 VA 0 VA

793 VA 0 VA

793 VA 793 VA

1921 VA | 793 VA

63 A

1000 VA 600 VA

0 VA | 1176 VA |

793 VA 0 VA

793 VA 793 VA

1921 VA | 793 VA

7868 VA

LOCATION:

FEED FROM:

FEEDER SIZE:

TOTAL CONNECTED LOAD: 64 A

MECHANICAL UNIT AND

EQUIPMENT MARK.——

CIRCUIT INFORMATION

SHOWING PANEL AND

BREAKER SIZE.

FEEDER SCHEDULE.—

CIRCUIT SIZE, SEE

POWER RISER DIAGRAM NOTES:

SHALL BE GENERAL ELECTRIC TMENVNE/100/200. OR EQUAL.

POLE TRIP

20 A

PROVIDE WITH 6 OUTPUT BREAKERS AS REQUIRED.

1. 6.6KVA INVERTER SYSTEM FOR LIFE SAFETY LIGHTING. DUAL-LITE LSN SERIES #D208-66S120-

2. $\,$ Panel Shall have Surge protection device. Surge protection device must be

3. PANEL-'LE' TO BE FED FROM EXISTING 100 AMP, 3-POLE BREAKER IN PANEL-'MP'

INSTALLED INTERNALLY TO THE ELECTRICAL DISTRIBUTION EQUIPMENT AND SHIPPED FROM

PANEL LE

DIRECTORY

REC. DSP STORAGE D101

OVERHEAD DOOR

REC. DSP STORAGE D101

GAS UNIT HEATER - GUH-12

GAS UNIT HEATER - GUH-13

GAS HEATER - GMAU-2

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

EXHAUST FAN - VEF-14

EXHAUST FAN - VEF-15

ELECTRICAL 147

SEE RISER DIAGRAM

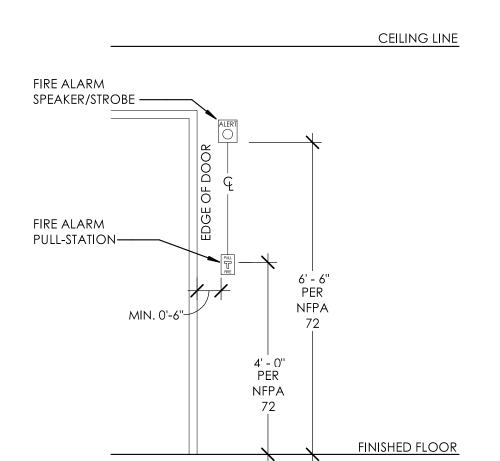
MΡ

CKT

A2006 OR APPROVED EQUAL. UL 924 WITH TYPE 'S' BATTERIES AND 90 MINUTE RUN TIME.

TYPICAL THERMOSTAT/SWITCH/FIRE ALARM INSTALLTION DETAIL Eo.2B NOT TO SCALE

- 1. MOUNT DEVICES ON SAME VERTICAL CENTERLINE.
- 2. THERMOSTATS SHALL BE MOUNTED PER ADA.
- 3. THE LIGHT SWITCH MAY NOT APPLY IN ALL CASES.
- 4. IF THE THERMOSTAT IS SHOWN IN THE MIDDLE OF A WALL ON THE FLOOR PLANS, THEN THE DOOR EDGE REQUIREMENTS DO
- 5. ALL CONFLICTS SHALL BE PRESENTED TO THE ARCHITECT FOR A RESOLUTION



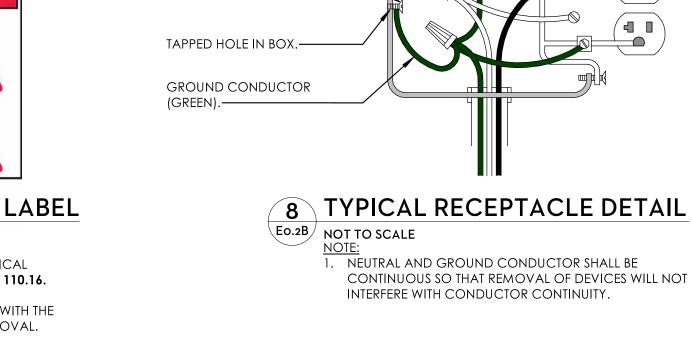
BETWEEN 80" AND 96" ABOVE THE FINISH FLOOR.

2. IF FIRE ALARM DEVICES ARE SHOWN IN THE MIDDLE OF A WALL ON THE FLOOR PLANS, THEN THE DOOR EDGE REQUIREMENTS DO NOT APPLY.

Arc Flash and Shock Hazard Appropriate PPE Required Follow all safety procedures and wear proper PPE in accordance to NFPA 70E. Failure to comply can result in serious injury or death.

TYPICAL ARC FLASH WARNING LABEL EO.2B NOT TO SCALE

- 1. PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS PER N.E.C. 110.16
- 2. THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE. ALL OTHER LABELS MUST BE SUBMITTED FOR APPROVAL.
- 3. THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY
- VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
- 4. THE SIZE OF THE LABEL SHALL BE 4" HIGH AND 6" WIDE FOR INDOOR AND OUTDOOR EQUIPMENT.



-WATER HEATER AND

EQUIPMENT MARK

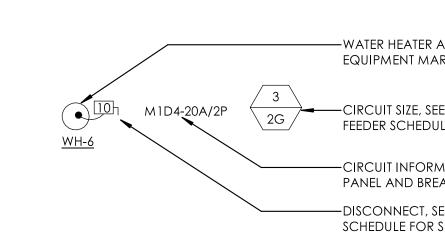
FEEDER SCHEDULE.

-CIRCUIT INFORMATION SHOWING

DISCONNECT, SEE DISCONNECT

PANEL AND BREAKER SIZE.

SCHEDULE FOR SIZING.



TYPICAL WATER HEATER UNIT

HANDLERS, MINI SPLITS, ROOF TOP UNITS, WATER HEATERS, ETC.

2. IF NO DISCONNECT IS SHOWN, UNIT IS FURNISHED WITH INTEGRAL DISCONNECT FROM MANUFACTURER OR IS IN SIGHT OF ELECTRICAL PANEL. MAKE ELECTRICAL CONNECTIONS PER MANUFACTURER'S REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL VERIFY UNITS HAVE INTEGRAL DISCONNECT WITH



Sheet Title

TYPICAL MECH. UNIT TYPICAL FIRE ALARM DEVICE INSTALLATION DETAIL TYPICAL MECHANICAL EQUIPMENT ELECTRICAL DETAIL | X | | X | FIRE ALARM DEVICES SHALL BE MOUNTED PER NFPA 72. THE PULL STATION HANDLE SHALL BE 1. THIS DETAIL IS TYPICAL FOR ALL MECHANICAL/PLUMBING EQUIPMENT INCLUDING BUT NOT LIMITED TO AIR MOUNTED BETWEEN 42" AND 48" ABOVE THE FINISH FLOOR. THE STROBE SHALL BE MOUNTED

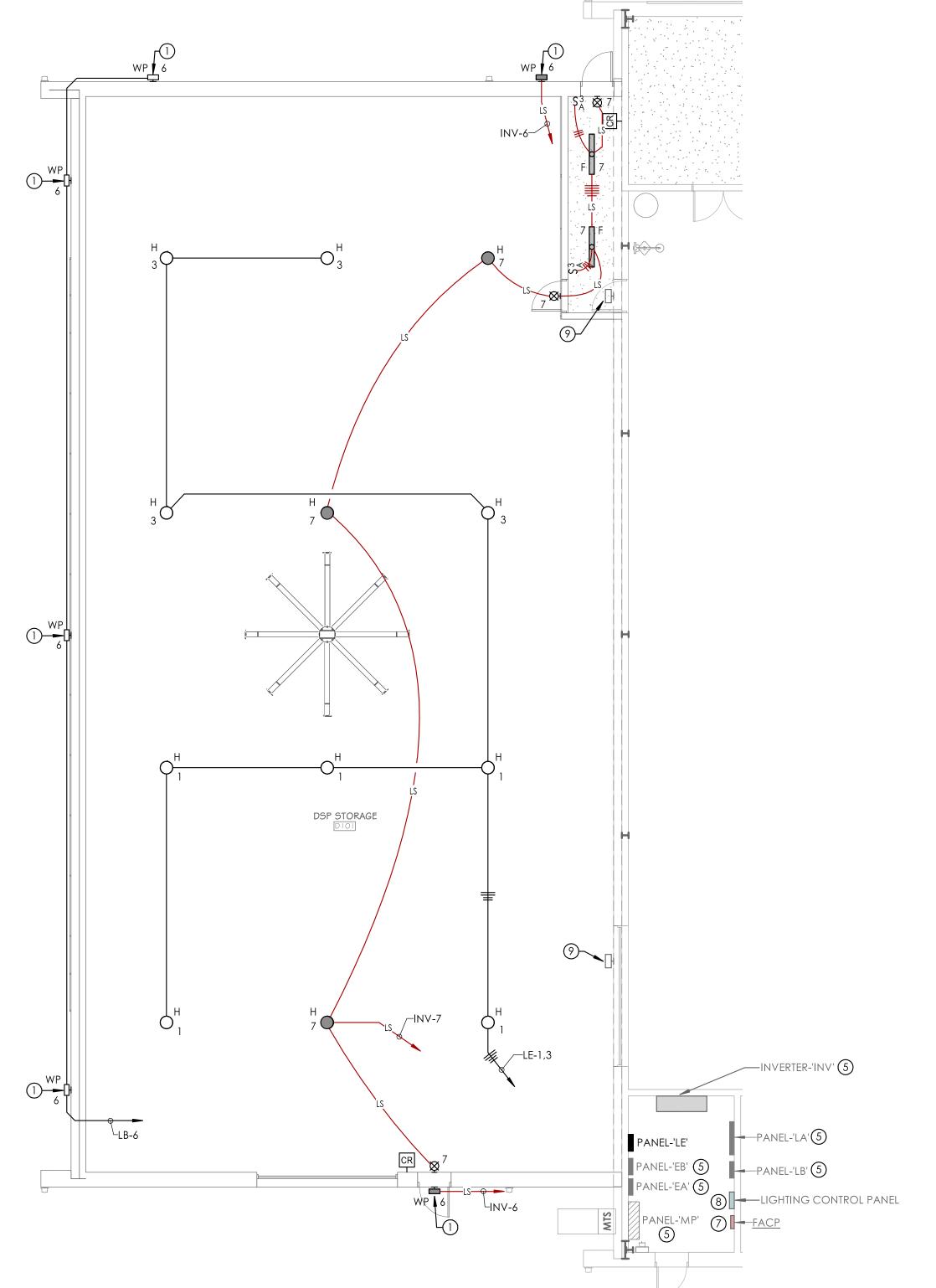
3. ALL CONFLICTS SHALL BE PRESENTED TO THE ARCHITECT FOR A RESOLUTION.

MATRIX IS A GUIDELINE FOR SYSTEM OPERATION. COORDINATE WITH GOVERNMENT FIRE DEPARTMENT/AHJ WHEN DEVELOPING SHOP DRAWINGS. ADJUST MATRIX TO COMPLY WITH FIRE DEPARTMENT REQUIREMENTS. MANUAL PULL STATION | X | X SMOKE DETECTOR | X | X CARBON MONOXIDE DETECTOR | X | X Χ SPRINKLER SYSTEM WATERFLOW SWITCHES DUCT SMOKE DETECTOR FACU TROUBLE | X | FACU AC POWER FAILURE | X | FACU SYSTEM LOW BATTERY FACU OPEN CIRCUIT FACU GROUND FAULT REMOTE POWER SUPPLY TROUBLE COMMON SUPERVISORY PA INPUT SPRINKLER CONTROL VALVE MNS ACU PTT MICROPHONE ACTIVE - PRIORITY MNS LIVE VOICE MESSAGE ACTIVE - PRIORITY 2

ANNUNCIATION

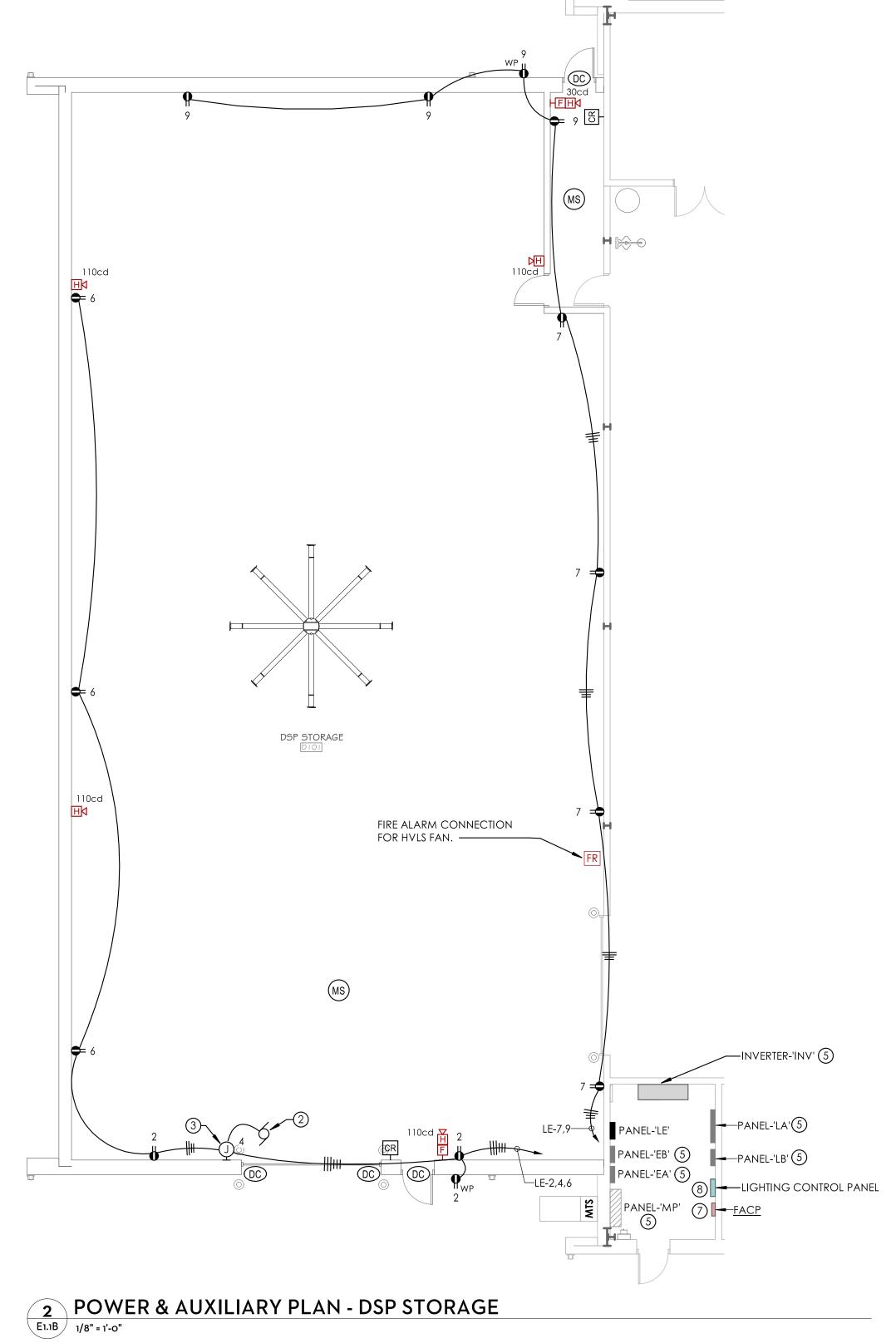
AT LOCAL PANEL

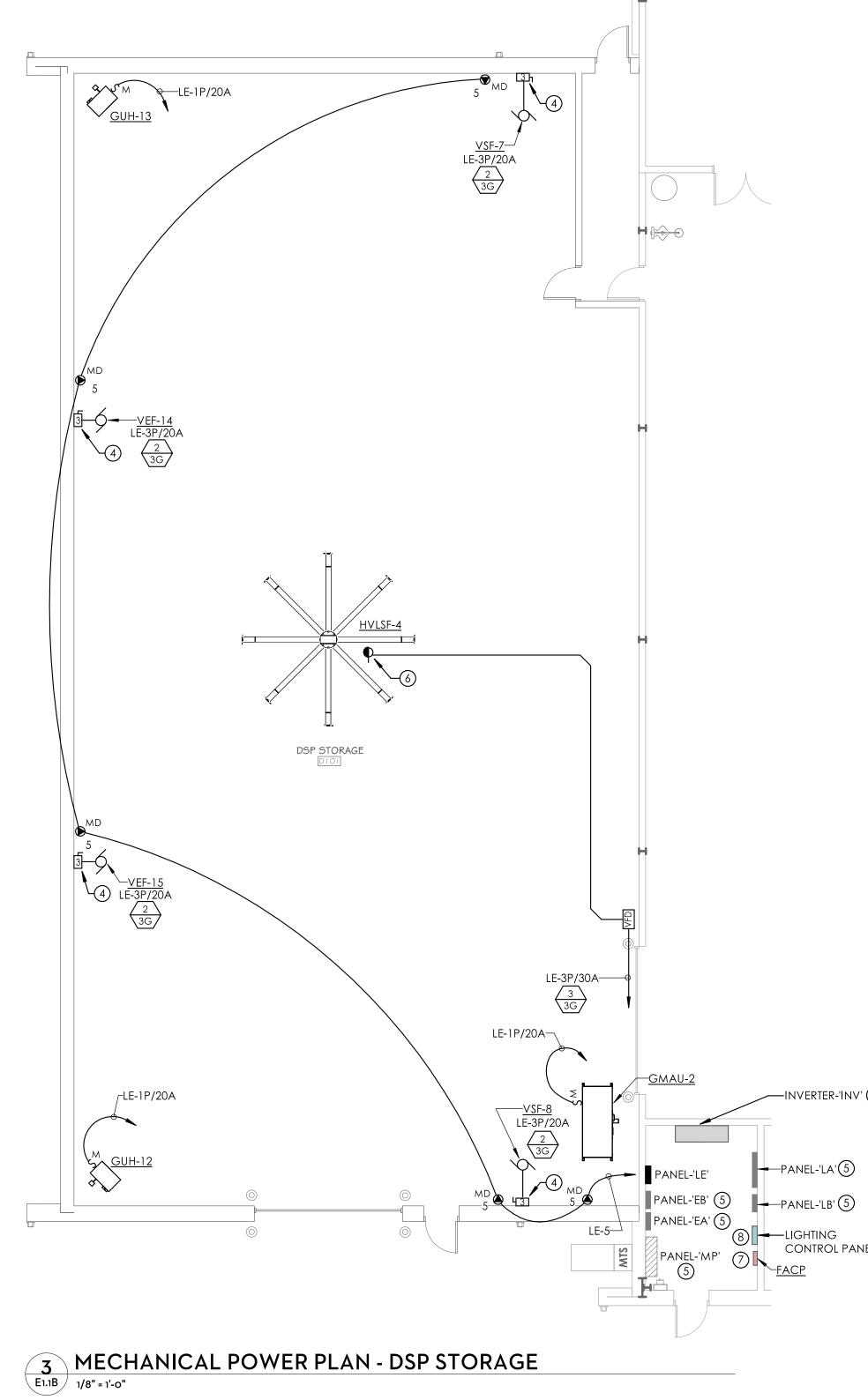
FUNCTIONAL MATRIX



LIGHTING PLAN - DSP STORAGE

1/8" = 1'-0"





| DSP STORAGE - MECHANICAL EQUIPMENT SCHEDULE | | | | | | | | | | | | |
|---|--------------------|---------------|-----------|----------|------------|-----------|----------------------------|--------------|-------|-------------------------|-------------------------|--|
| QUIPMENT | EQUIPMENT LOCATION | VOLTAGE/PHASE | ELECTRICA | AL CHARA | CTERISTICS | DISCO | DISCONNECT CHARACTERISTICS | | | HOMERUN CHARACTERISTICS | | |
| MARK | EQUIPMENT LOCATION | VOLIAGE/PHASE | HP | kW | AMPS | SIZE/POLE | NEMA | SWITCH TYPE | PANEL | CIRCUIT # | FEEDER SIZE | |
| GMAU-2 | DSP STORAGE | 115V/1PH | 1/2 | | 9.8 | 20A/1P | 1 | MOTOR SWITCH | LE | 12 | 2#10 & 1#10(G) - 3/4"c. | |
| GUH-12 | DSP STORAGE | 115V/1PH | 1/2 | | 17.6 | 20A/1P | 1 | MOTOR SWITCH | LE | 8 | 2#10 & 1#10(G) - 3/4"c. | |
| GUH-13 | DSP STORAGE | 115V/1PH | 1/2 | | 17.6 | 20A/1P | 1 | MOTOR SWITCH | LE | 10 | 2#10 & 1#10(G) - 3/4"c. | |
| HVLSF-4 | DSP STORAGE | 208V/3PH | 2 | | | 30A/3P | 1 | VFD BY MECH. | LE | 37,39,41 | 3#10 & 1#10(G) - 3/4"c. | |
| VEF-14 | DSP STORAGE | 208V/3PH | 1 1/2 | | | 30A/3P | 1 | NON-FUSIBLE | LE | 32,34,36 | 3#12 & 1#12(G) - 3/4"c. | |
| VEF-15 | DSP STORAGE | 208V/3PH | 1 1/2 | | | 30A/3P | 1 | NON-FUSIBLE | LE | 38,40,42 | 3#12 & 1#12(G) - 3/4"c. | |
| VSF-7 | DSP STORAGE | 208V/3PH | 1 1/2 | | | 30A/3P | 1 | NON-FUSIBLE | LE | 25,27,29 | 3#12 & 1#12(G) - 3/4"c. | |
| VSF-8 | DSP STORAGE | 208V/3PH | 1 1/2 | | | 30A/3P | 1 | NON-FUSIBLE | LE | 31,33,35 | 3#12 & 1#12(G) - 3/4"c. | |

KEYED NOTES:

MOUNT WALL PACK AT APPROXIMATELY 12'-0" ABOVE

- FINISHED GRADE. POWER CONNECTION FOR ROLL-UP DOOR. VERIFY
- DOOR AND MOTOR REQUIREMENTS WITH ARCHITECT AND OWNER.
- . SINGLE-GANG JUNCTION BOX FLUSH MOUNTED AT 48" A.F.F. TO TOP OF BOX FOR DOOR CONTROLS. ROUTE 3/4" CONDUIT TO DOORS MOTOR AS REQUIRED.
- . DISCONNECT FOR FAN. MOUNT DISCONNECT ADJACENT TO FAN MOTOR STARTER. VERIFY EXACT
- LOCATION OF MOTOR STARTER WITH MECHANICAL. EXISTING ELECTRICAL PANELS TO REMAIN. PROVIDE
- BREAKERS IN PANELS AS REQUIRED. RECEPTACLE FOR HVLSF FAN. MOUNT RECEPTACLE TO
- STRUCTURE ADJACENT TO FAN. EXISTING FIRE ALARM PANEL TO REMAIN. PROVIDE

. EXISTING LIGHTING CONTROL PANEL TO REMAIN.

RELAYS IN PANEL AS REQUIRED.

PROVIDE RELAYS IN PANEL AS REQUIRED.

. WALL PACK LIGHT FIXTURES INSTALLED AS PART OF THE BASE SUPPLY PROJECT SHALL BE REMOVED OR RELOCATED.

GENERAL LIGHTING NOTES:

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS AND CEILING TYPES.
- . ALL EMERGENCY FIXTURES/NIGHT LIGHTS SHALL BE

CONNECTED TO UNSWITCHED CIRCUIT.

- . REFER TO POWER PLAN FOR PANEL LOCATIONS.
- . ELECTRICAL CONTRACTOR SHALL COORDINATE SWITCH
- LOCATION WITH DOOR SWINGS BEFORE ROUGH IN.
- ALL AREAS SHALL BE CONTROLLED WITH MANUAL ON/OFF SWITCHING AND BE TIMED OFF OR BE CONTROLLED WITH OCCUPANCY SENSORS.
- . ALL 120 VOLT CIRCUITS MORE THAN 75' LONG FROM PANEL TO FIRST FIXTURE SHALL BE MINIMUM OF #10 AWG COPPER CONDUCTORS.
- ALL EXTERIOR LIGHTS SHALL BE CONTROLLED AS NOTED ON DRAWINGS.
- . ROOMS WITH ELECTRICAL PANELS SHALL NOT BE AUTOMATICALLY CONTROLLED.
- LIGHTS IN MECHANICAL ROOMS SHALL BE ADJUSTED AS REQUIRED TO AVOID CONFLICTS WITH DUCT WORK
- 0. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE LIGHTING CONTROL CABLING ALTHOUGH NOT SPECIFICALLY SHOWN ON PLANS. LIGHTING CONTROL MANUFACTURER SHALL PROVIDE LAYOUT OF CABLING WITH THEIR SUBMITTALS.

AND BEST LIGHT THE SPACE.

LIGHTING CONTROL NOTES:

- PROVIDE COMPLETE LIGHTING CONTROL SYSTEM AS noted and as shown on drawings.
- . ALL SENSORS SHALL BE LOCATED BY MANUFACTURER TO ACCOMPLISH EXACT REQUIREMENTS FOR SENSOR.
- . ALL LIGHTING CONTROLS SHALL BE "MANUAL ON" EXCEPT FOR CORRIDORS AND EXTERIOR AT DOORWAYS.
- . FURNISH AND INSTALL ALL LOW VOLTAGE LIGHTING CONTROL WIRING BETWEEN ROOM CONTROLLER, SENSORS, AND WALL SWITCHES. WHERE DIMMING OF FIXTURES IS REQUIRED, PROVIDE 0-10 VOLT CABLED AS NEED TO EACH FIXTURES. DIMMING CABLES SHALL NOT BE ROUTED IN SAME CONDUIT AS POWER CONDUIT (120V). REFER TO TYPICAL ROOM LIGHTING CONTROL
- WIRING DIAGRAM. SHOP DRAWINGS MUST BE SUBMITTED AND SHALL INCLUDE SENSOR LOCATIONS AND WIRING LAYOUTS. MANUFACTURER SHALL INCLUDE AT LEAST THREE (3) ON-SITE MEETINGS WITH CONTRACTOR: 1) PRE-INSTALL -AFTER SHOP DRAWINGS ARE APPROVED AND BEFORE ANY WORK BEGINS, 2) START-UP - AFTER WORK IS COMPLETE AND PRIOR TO FINAL INSPECTION. 3) FINAL CHECK- AFTER FINAL INSPECTION IS COMPLETED. OWNER TRAINING.
- MANUFACTURER SHALL PROVIDE WRITTEN REPORT AS TO FUNCTIONAL TESTING AFTER SYSTEM IS COMPLETE. REPORT MUST BE SIGNED BY FIELD TECHNICIAN AND MUST STATE THAT CONTROLS ARE INSTALLED, CALIBRATED, ADJUSTED, PROGRAMMED, AND IN PROPER WORKING CONDITION AS WELL AS DOCUMENTING THAT THE LIGHTING PERFORMS CORRECTLY TO THE INTENDED OPERATION. REPORT MUST ALSO INDICATE, BY OWNER'S SIGNATURE, THAT ALL CONTROLS HAVE BEEN COORDINATED WITH
- PROVIDE WIRELESS CONFIGURATION TOOL FOR PROGRAMMING LIGHTING CONTROLS AS REQUIRED.

MECHANICAL EQUIPMENT NOTES:

- COORDINATE WITH MANUFACTURER'S CUTSHEETS OR NAMEPLATE DATA AND ADJUST OVERCURRENT PROTECTION AS NEEDED TO PROTECT EQUIPMENT PER manufacturer's recommendations and to COMPLY WITH N.E.C. AND LOCAL CODES.
- 2. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE.
- . ALL FUSES SHALL BE SIZED PER NAMEPLATE DATA. . PROVIDE FUSES IN DISCONNECT PER MECHANICAL EQUIPMENT NAMEPLATE OR MANUFACTURER'S REQUIREMENTS.
- MULTIPLE DUCTLESS MINI-SPLIT SYSTEM MECHANICAL UNITS CAN BE ON THE SAME CIRCUIT. CONTRACTOR SHALL ROUTE CIRCUIT TO UNITS IN MOST ECONOMICAL ORDER FOLLOWING THE SPECIFICATIONS AND THE N.E.C.
- mount manual motor start switch near unit, ABOVE ACCESSIBLE CEILING SPACE OR 48" A.F.F. TO THE TOP OF THE BOX AND LABEL AS REQUIRED.



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



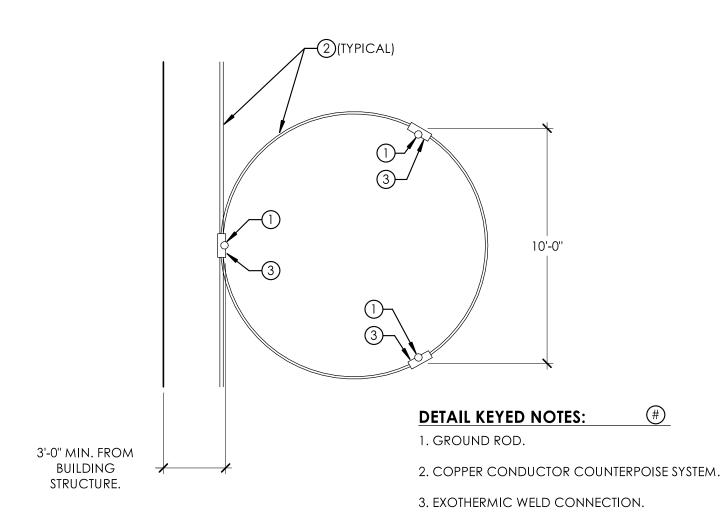
Rev. Description Date

Job Number 19084

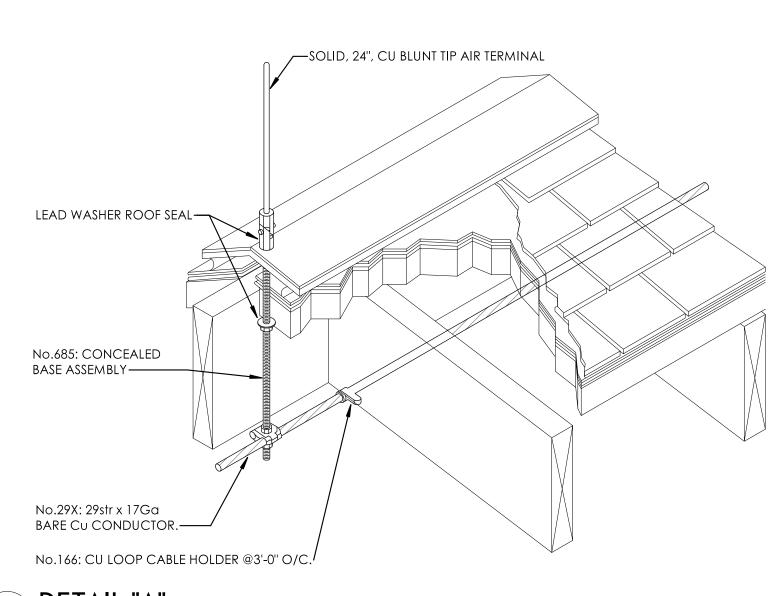
Drawn By Checked By

10 April 2025

DSP STORAGE ELECTRICAL PLANS

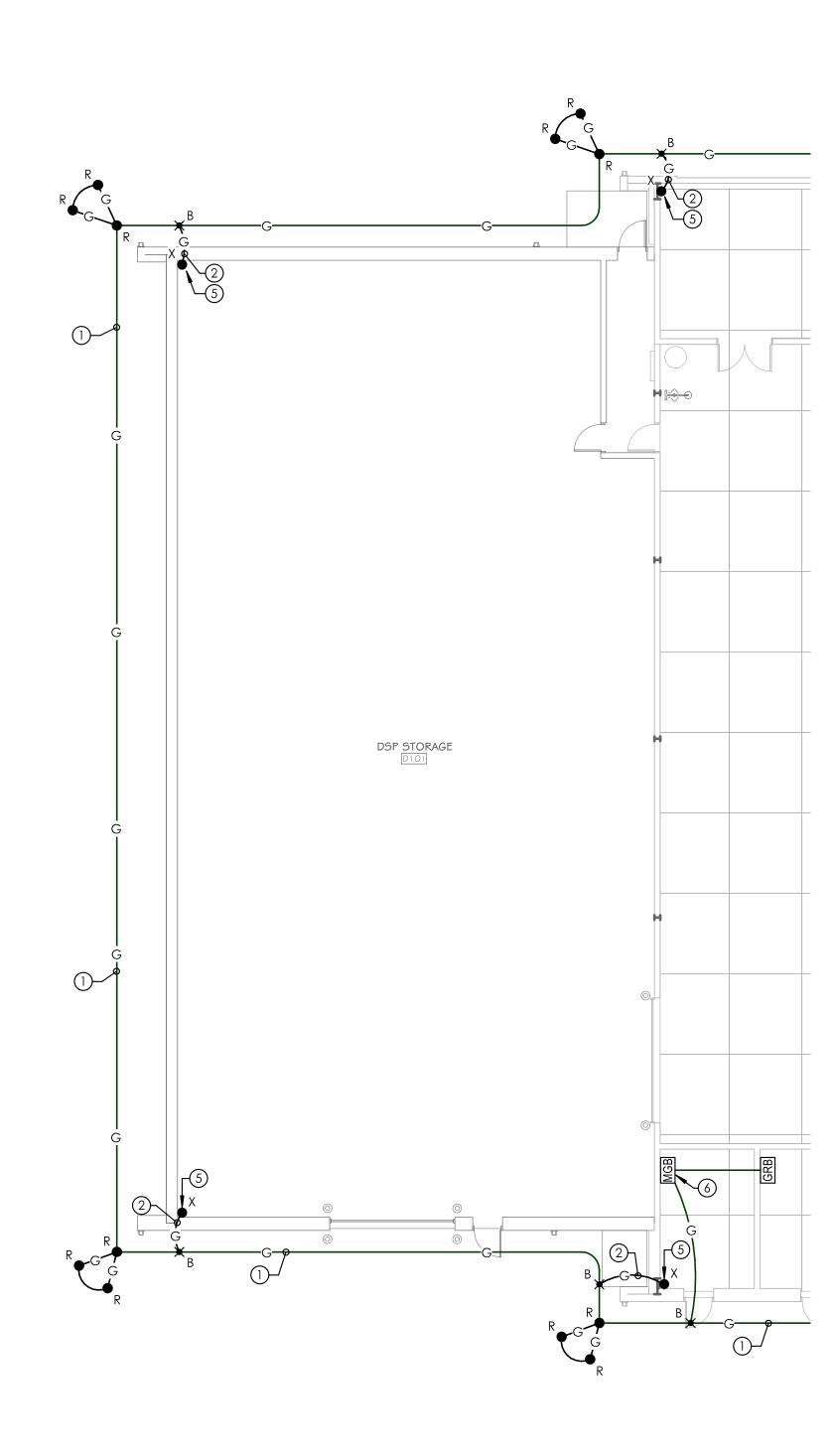


THREE ROD CLUSTER - CONNECTION TO COUNTERPOISE
NOT TO SCALE

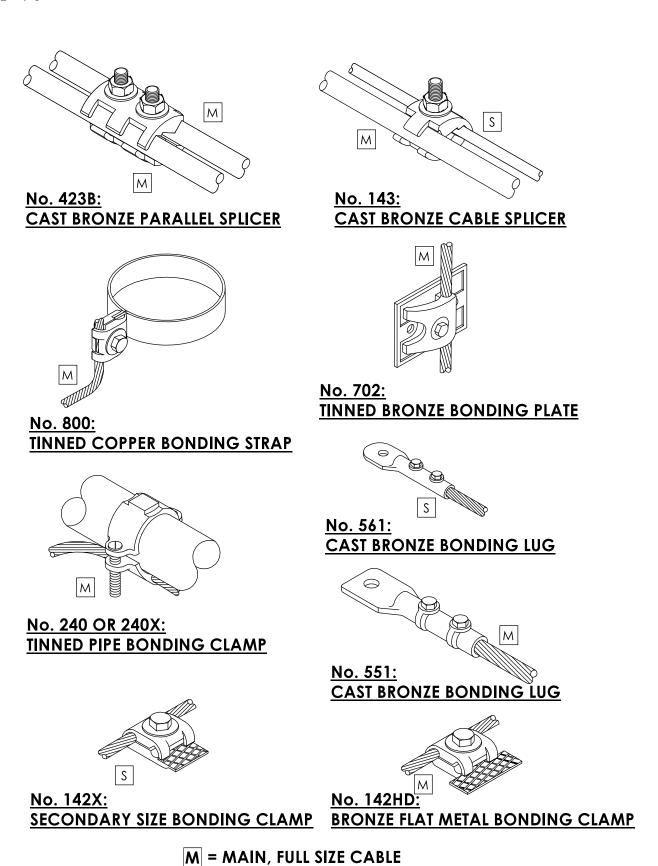


5 DETAIL "A"

E1.2B NOT TO SCALE

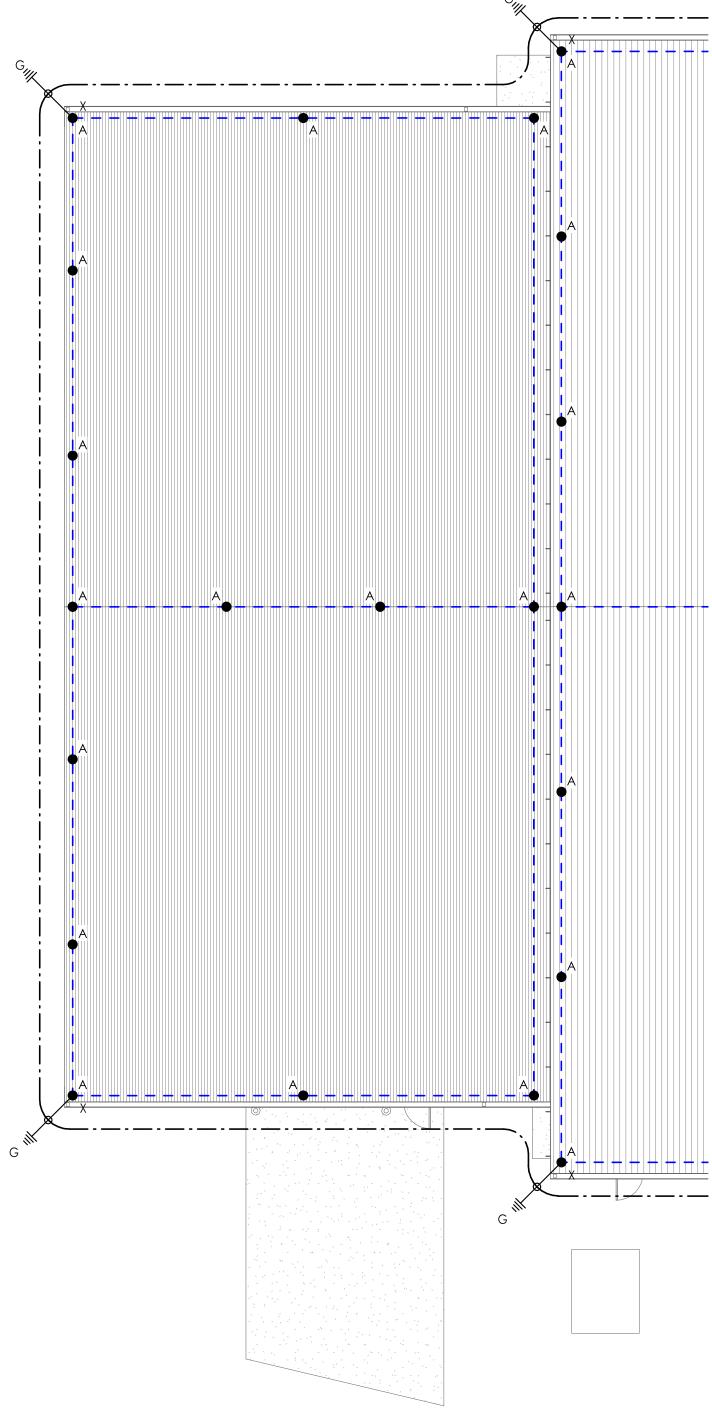


GROUNDING COUNTERPOISE PLAN - DSP STORAGE

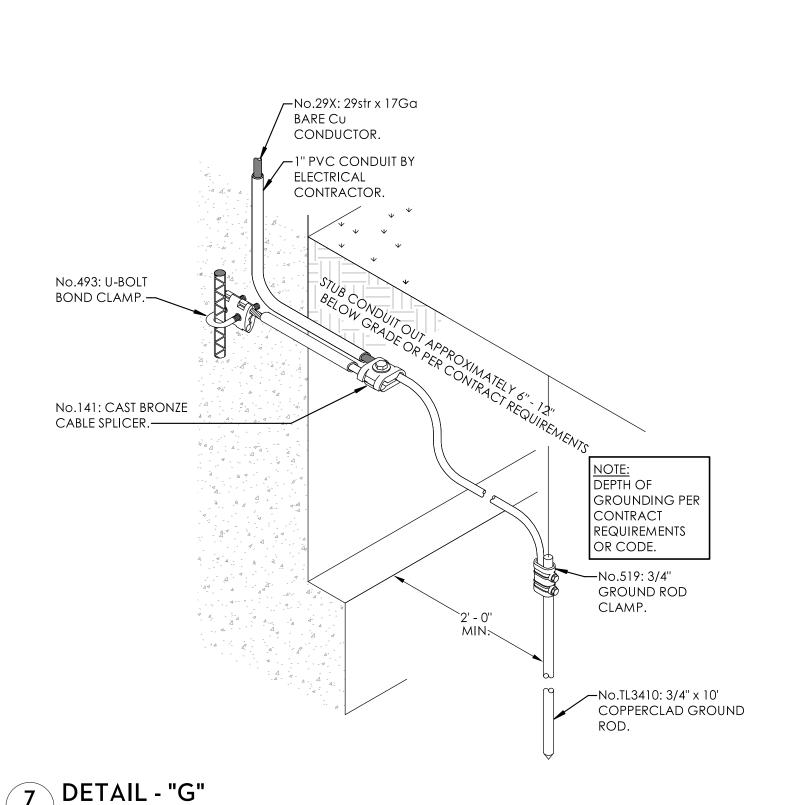


S = SECONDARY SIZE CABLE

6 TYPICAL BONDING & SPLICING DETAILS E1.2B NOT TO SCALE



2 LIGHTNING PROTECTION ROOF PLAN - DSP STORAGE E1.2B 3/32" = 1'-0"



E1.2B NOT TO SCALE

GROUNDING COUNTERPOISE & LIGHTNING PROTECTION SYMBOL LEGEND

LIGHTNING PROTECTION SYSTEM - AIR TERMINAL: LETTER DENOTES DETAIL TYPE.

LIGHTNING PROTECTION SYSTEM - MAIN CONDUCTOR.

LIGHTNING PROTECTION SYSTEM - COUNTERPOISE/GROUND CABLE

LIGHTNING PROTECTION SYSTEM - THRU ROOF PENETRATION: LETTER DENOTES DETAIL TYPE.

LIGHTNING PROTECTION SYSTEM - THRU ROOF PENETRATION TO STEEL: LETTER DENOTES DETAIL TYPE

LIGHTNING PROTECTION SYSTEM - BONDING LOCATION

LIGHTNING PROTECTION SYSTEM - FULL DOWNLEAD TO GROUND.

LIGHTNING PROTECTION SYSTEM - STEEL COLUMN BOND TO GROUND. LIGHTNING PROTECTION SYSTEM - CONCEALED/PITCHED DOWNLEAD TO GROUND.

GROUNDING COUNTERPOISE SYSTEM - DRIVEN GROUND ROD.

GROUNDING COUNTERPOISE SYSTEM - GROUNDING CONDUCTOR BELOW GRADE.

GROUNDING COUNTERPOISE SYSTEM - BONDING CONNECTION TO GROUNDING COUNTERPOISE.

LIGHTNING PROTECTION SYSTEM **GENERAL AND INSTALLATION NOTES:**

1. LOCATE AIR TERMINALS AS SHOWN. TAKE CARE TO INSURE THAT ALL POINTS ARE WITHIN 2'-0" OF OUTSIDE BUILDING EDGE, OUTSIDE CORNERS, AND RIDGE ENDS, AND THAT MAXIMUM SPACING DOES NOT EXCEED 20'-0", AND THAT MINIMUM PROJECTION ABOVE OBJECT PROTECTED IS 10". (POINTS PROJECTING 24" MAY BE SPACED @ 25' MAX.

VERIFY COMPATIBILITY OF ADHESIVE ON MEMBRANE ROOF APPLICATIONS PRIOR TO INSTALLATION.

2. MAINTAIN HORIZONTAL OR DOWNWARD COURSING OF MAIN CONDUCTOR AND INSURE THAT ALL BENDS HAVE AT LEAST AN 8" RADIUS AND DO NOT EXCEED 90°.

3. ATTACH ALL EXPOSED ROOF, DOWN LEAD AND BONDING CABLES AT 3'-0" ON CENTER MAXIMUM.

4. GROUND ELECTRODES SHALL BE INSTALLED AS SHOWN BUT IN NO INSTANCE SHALL THEY BE LESS THAN 1'-0" BELOW GRADE AND 2'-0" FROM FOUNDATION WALL DRIVEN RODS SHALL PENETRATE EARTH AT

5. BOND TO WATER SERVICE AND OTHER PIPING SYSTEMS AS SHOWN AND AS REQUIRED BY CODES.

6. INTERCONNECT LIGHTNING PROTECTION GROUND TO ELECTRIC, TELEPHONE, AND OTHER BUILDING GROUND SYSTEMS AS SHOWN OR AS REQUIRED BY CODE.

7. SYSTEM SHALL BE INSTALLED AS SHOWN TO INSURE PROPER CODE COMPLIANCE AND SYSTEM CERTIFICATION. ANY MAJOR VARIANCE SHALL ENTAIL RESUBMITTAL AND NEW APPROVAL.

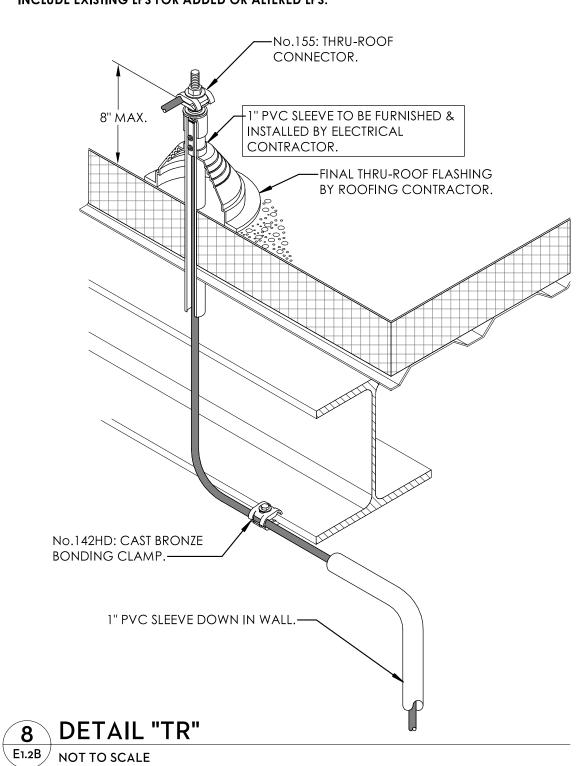
8. "AS-BUILT" DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH CERTIFICATION PROCEDURES.

9. ALL MATERIALS ARE UNDERWRITERS LABORATORIES APPROVED WITH LABELS ON CONDUCTORS @ 10'-0" INTERVALS AND LABELS ON ALL AIR TERMINALS.

10. ALL MATERIALS SHOWN AND INTENDED FOR USE, ARE TO BE AS MANUFACTURED BY THOMPSON 651-455-2545. 11. SUBMITTALS SHALL BE STAMPED BY AN LPI MASTER INSTALLER DESIGNER. FIELD INSTALLERS TO BE LPI

12. FIND SYSTEM INSTALLER TO BEAR LPI-IP SYSTEM CERTIFICATION. 13. LIGHTNING PROTECTION SYSTEM (LPS) TO BE INSTALLED PER UFC 3-575-01, AFI 32-1065 AND NFPA 780 ALL LATEST EDITION. ALSO THE NEW MUNITIONS INSPECTION AND ASSEMBLY FACILITY TO BE TESTED,

32-1065 SECTION 6.1. ADDITIONAL RESPONSIBILITY OF 3RD PARTY TESTING WILL BE TO TEST ALL AIR TERMINALS AND ROOF MOUNTED LPS BONDED ELECTRICAL, MECHANICAL AND STEEL ROOF PENETRATIONS. THIS TESTING WILL BE COMPLETED ON THE ENTIRE FACILITY FOR NEW OR ALTERED LPS, TO



SCALE: 3/32" = 1'-0"

KEYED NOTES:

INSTALL A CONTINUOUS GROUND CONDUCTOR THE PERIMETER OF THE BUILDING. #1/0 BARE CU 30" BELOW GRADE (5'-0" FROM BUILDING). INSTALL GROUND RODS AS NOTED. INTER-CONNECT WITH #4/0 CU.

. INSTALL A BONDING CONNECTION FROM THE METAL STEEL FRAMING SYSTEM TO EACH GROUND. USE #4/0 CU GROUND. WELD TO METAL FRAME 1'-0" A.F.F. WELD TO COUNTERPOISE BELOW GRADE. RUN #4/0 CU CONDUCTORS CONCEALED.

3. BOND CWP TO COUNTERPOISE - #4/0 CU GROUND. 4. BOND SPRINKLER RISER TO COUNTERPOISE - #1/0 CU GROUND.

5. TYPICAL AT ALL POINTS, RUN LIGHTNING GROUNDING CONDUCTOR UP TO ROOF AND MAKE CONNECTION TO LIGHTNING PROTECTION SYSTEM.

. PROVIDE 1#3/0 GROUND CONNECTION TO COUNTER POISE SYSTEM FROM MAIN BUS BAR.



Project No: 19-013



Job Number

Drawn By Checked By

10 April 2025

Project Title

DSP STORAGE ELECTRICAL **PLANS**

