JEFFERSON COUNTY PURCHASING DEPARTMENT
Deborah L. Clark, Purchasing Agent

1149 Pearl Street
1st Floor, Beaumont, TX 77701

OFFICE MAIN: (409) 835-8593
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Addendum to IFB

IFB NUMBER: IFB 24-062/MR

IFB TITLE: Jefferson County Diversion Center Renovation

IFB DUE BY: **11:00 am CT, Wednesday, November 13, 2024**

ADDENDUM NO.: 4

ISSUED (DATE): November 8, 2024

To Bidder: This Addendum is an integral part of the IFB package under consideration by you as a Bidder in connection with the subject matter herein identified. Jefferson County deems all sealed bids to have been proffered in recognition and consideration of the entire IFB Specifications Package – *including all addenda*. For purposes of clarification, **receipt of this present Addendum by a Bidder should be evidenced by returning it (signed) as part of the Bidder's sealed bid submission.** If the bid submission has already been received by the Jefferson County Purchasing Department, Bidder should return this addendum in a separate sealed envelope, clearly marked with the IFB Title, IFB Number, and IFB Opening Date and Time, as stated above.

Reason for Issuance of this Addendum:

1. **Vendor Questions**
2. **Updated Scope of Work & Updated Project Drawings**

The information included herein is hereby incorporated into the documents of this present bid matter and supersedes any conflicting documents or portion thereof previously issued.

Receipt of this Addendum is hereby acknowledged by the undersigned Respondent:

ATTEST:

_____
Witness

_____
Witness

Approved by ____ Date: _____

_____
Authorized Signature (Respondent)

_____
Title of Person Signing Above

_____
Typed Name of Business or Individual

_____
Address

1149 Pearl Street **OFFICE MAIN: (409) 835-8593**
1st Floor, Beaumont, TX 77701 **FAX: (409) 835-8456**

1. Question: With Veteran's Day on Monday, Nov. 11-would it be possible to change the bid date and/or time?

   Answer: No.

2. Question: Bid Form shows Mold Remediation as Line Item 1. If owner is performing mold remediation and GC is not required to use a TDLR certified contractor, is this line item required?

   Answer: The mold remediation is not being done by the owner. The vendor that bids on this line item must be a TDLR certified contractor. Vendors do not have to bid on line item #1 if they do not plan on doing the mold remediation.

3. Question: Just to confirm, per addenda #1 The Mold Remediation scope. We want to clarify that the GC is not required to have a TDLR licensed contractor for the demolition work after the mold remediation is complete.

   Answer: See question 2.

4. See Brave Addendum 4 Attachment beginning on page 3 of this addendum for all other vendor questions, updated scope of work and updated project drawings.

ADDENDUM # 04

IFB 24-062/MR Jefferson County Diversion Center Renovation
B/A No. 23141
Issue Date: 11/08/2024

Notice:

- Receipt of this Addendum shall be acknowledged on the Bid Form.
- This Addendum forms part of the Contract Documents for the above referenced project and shall be incorporated integrally therewith.
- Bidder shall make necessary adjustments and submit his/her proposal with full knowledge of all modifications, clarifications, and supplemental data included therein. Where provisions of the following supplemental data differ from those of the original Contract Documents, this addendum shall govern and take precedence.
- Identified items revised on the Drawings are designated by a cloud line surrounding the revised section of the drawing and a delta (Δ) symbol with the corresponding revision number.
- Items revised in the Project Manual are shown in bold AND italicized.

Modifications:

A. Owner Requested changes to Bidding Information (Demolition Work allocation)

1. Mold Remediation demolition scope – more clarifications after 11/06 site visits and RFIs.
Response:
Mold Remediation Protocol and Interior Demolition document provided to further clarify the scope.

Renovation GC Demolition scope of work (in Contract)

a) Refer to Mold Remediation Protocol and Interior Demolition scope for clarifications included as an attachment with this addendum.
b) Any demolition remaining after completion of mold remediation contractor is to be completed by GC as required for the renovation scope of this project.
c) All CMU demolition required for the renovation scope is under Renovation GC.
d) Renovation GC is responsible for rebuilding any wall or partial patches demolished due to mold infestation.

B. Changes to Bidding Information (questions & clarifications): RFIs

1. Sergio Gomez, Construction Managers of Southeast Texas, LLC Question – What size rebar and what spacing will be the rebar be in the paving?

Response: *Jacques Gilbert, PE: 4,000 psi concrete with No.3 bars palced at 18 in on center in both directions.*

2. Sergio Gomez, Construction Managers of Southeast Texas, LLC Question – How thick is the concrete to be Demoed?

Response: *Existing concrete thickness is unknow, GC to field verify.*

3. Todd Stinson, Project Manager of Preferred Facilities Group – USA Question - *During the site walk-thru today, the possibility of leaving the heavy-duty door frames on what had been individual holding cells in place rather than removing them was briefly discussed. Details are indeed provided that would involve removing the existing CMU enough to remove the existing door frames, then setting the new hollow metal frame and - per details – infilling the remaining gap with new CMU construction. While this method is certainly common, it usually comes with a price. It is a time-consuming and expensive way to replace an existing frame & door. A potentially less-costly option discussed could be to leave the existing door frames in place. Repair any holes from no-longer used original security hardware as required, and refinish the existing frames as required to be aesthetically acceptable. The new door hardware may require some reconsidering to ensure it could be installed to work with the existing frame. The new doors may need to be custom fitted to the existing frames.*

4200 Montrose Blvd.
Suite 400
Houston, TX 77006
713.521.5555
bravearchitecture.com

***Response*:** *Look and feel of the existing door frames are not acceptable by the design team. GC to provide cost of new frames with wall patching vs cost of keeping the frames in place for owners to make decision based on the competitive cost of construction.*

4. Todd Stinson, Project Manager of Preferred Facilities Group – USA Question – It was also discussed that the scope of the abatement and demolition was going to be revised again to put more demo work into the abatement contractor due to the presence of mold on the within some of the drywall construction.

***Response*:** *Information provided in the earlier section of this addendum. New partitions are added to the scope of work due to Mold demolition of existing walls. GC to account for any wall patching or new wall required due to mold remediation demolitions.*

5. Todd Stinson, Project Manager of Preferred Facilities Group – USA Question – Could the language in the specifications about providing temporary construction fencing be clarified to explain where exactly this is to be provided? Perhaps simply marking on a site plan the location for it would suffice. The site is normally secured by the containment fence that surrounds the complex.

Response: *Temporary construction fence is required to avoid vandalism and for protection of stored materials. This is considered means and methods of construction. GC is required to submit staging plan for approvals before starting of the construction.*

6. Sergio Gomez, Construction Managers of Southeast Texas, LLC Question – Is there a flagpole required for this project? There is no specification for a flagpole but there is a detail in the drawings showing the flagpole foundation.

Response: *No, there is no flagpole in the project. Detail 8 on sheet A.040 can be ignored*

7. Sergio Gomez, Construction Managers of Southeast Texas, LLC Question – *Sheet C1.00 calls out "D1 – Existing Type C inlet to be removed" but is not shown on the drawing.*

Response: *Existing Type C inlet approximate location is provided on the sheet C1.00. GC to field verify exact location.*

8. Sergio Gomez, Construction Managers of Southeast Texas, LLC Question – *There is no specification for Lightning Protection. Sheet A.200 calls out "25.23 – Conductor Cable Lightning Protection System". Can you clarify if we are putting a new lightning protection system or if it is existing? If existing – is the intent just to remove and reinstall during the roof work?*

Response: *Yes, GC to provide new Lightening System. See attached spec section.*

C. Changes to the Project Manual/Drawings:

Specifications

Table of Content revised to include new spec sections. Spec section on Lightening Protection System added.

Architectural Sheets

Demolition of mold wall identified and New partitions are shown.

Plumbing Sheets

1. Added new roof plan P1.3 with roof gutters sized at 8"x6" and 6" downspouts (16 total downspouts)
2. Updated sheet P1.1 to show 6" downspouts down through wall and terminate with downspout nozzle JR Smith 1770 or equal.
3. Updated sheet index on sheet P0.1.

D. Attachments:

Mold Remediation Protocol & Interior Demolition	**Format**	**Date**
Report	8½x11	11/08/2024

Specification		**Format**	**Date**
Cover page		8½x11	11/08/2024
Table of Content		8½x11	11/08/2024
26 4100	Lightening Projection System	8½x11	11/08/2024

Drawing Sheet		Format	Date
G.000	Cover Page	30x42	11/08/2024
G.001	Index and General Information	30x42	11/08/2024
D.101	Demolition – Overall Floor Plan	30x42	11/08/2024
D.110	Demolition – Enlarged Floor Plan POD 200	30x42	11/08/2024
A.100	Overall Floor Plan	30x42	11/08/2024
A.101	Enlarged Floor Plan – POD 200	30x42	11/08/2024
A.102	Enlarged Floor Plan – POD 400	30x42	11/08/2024
P0.1	Plumbing Abbreviations and Symbols	30x42	11/08/2024
P1.1	Plumbing Plan – Waste	30x42	11/08/2024
P1.3	Plumbing Roof Plan	30x42	11/08/2024

End of Addendum 04

Mold Remediation Protocol & Interior Demolition

SURVEY LOCATION:	Jefferson County Diversion Center Renovation – Pods 100, 200, 300, & 400 3890 FM 3514 Beaumont, Texas 77705
PROJECT CONTACT:	Ms. Mistey Reeves
SITE VISIT DATE:	October 30, 2024
PROJECT MANAGER:	Jarrold Ardoin, MAC #1288 Project Manager
REPORT DATE:	November 6, 2024
REPORT PREPARED BY:	Mohammed Hussein, MAC #1801 Operations Manager
REPORT APPROVED BY:	Daniel Ward Vice President
VERSION:	Revision 1 Final

TDLR Mold Assessment
Consultant
License: MAC1801
Expires: 09/22/2025

Honesty Environmental Services, Inc.

MOLD ASSESSMENT SUMMARY

On April 10, 2024, Mr. Jarrold Ardoin, a Texas Department of Licensing and Regulation (TDLR) Licensed Mold Assessment Consultant (MAC #1288) and EHS Specialist with Honesty Environmental Services, Inc, performed a mold assessment of the above-mentioned facility. The assessment included visual observations, temperature, relative humidity, and surface moisture measurements. This work was requested and defined by Ms. Mistey Reeves of Jefferson County.

The purpose of this work, conducted on June 7, 2024, was to determine the extent of suspect visible mold within the subject areas within the structure and establish a scope of remediation work for the facility. It is the understanding of HES that this work was requested as a result of visible suspect mold in the various areas of the facility.

As a result of the assessment, the following recommendations were made:

- Have a TDLR licensed Mold Assessment Consultant prepare a mold remediation protocol for the cleaning and/or removal of the mold impacted building materials identified.
- All sources of moisture shall be resolved prior to performing any mold remediation activities.
- The presence of mold in excess of 25 contiguous square feet in various areas of the building has been discovered. A mold protocol outlining a remediation scope of work has been developed and the mold contaminated building materials are to be remediated by a TDLR-licensed Mold Remediation Contractor following TDLR rules and regulations.
- Clean and/or remove the mold impacted building materials throughout the facility with an EPA approved biocide agent to prevent any further mold growth.
- Install HEPA filtration air scrubbers to filter out mold spores from the air. Allow the air scrubbers to run for at least 48-72 hours before testing the affected areas.
- Remove or professionally clean the HVAC system, including all the HVAC unit(s), duct work and vents after repairs are complete. Install a new HVAC air filter(s) after the cleaning is completed and ensure that the air filter(s) is changed periodically per the manufacturer's recommendations.
- The HVAC system was not operating at the time of the assessment, which may have contributed to the elevated humidity levels in the interior of the building. HES recommends the HVAC system be turned on once mold remediation is complete and be allowed to cycle to reduce the humidity levels.
- Mold may exist in wall cavities or chases.

MOLD REMEDIATION PROTOCOL & INTERIOR DEMOLITION

Eliminate Moisture Intrusion

Remediation should be conducted in accordance with the Texas Mold Assessment and Remediation Rules. Ensure that all moisture intrusion problems in the facility have been identified and completely repaired prior to beginning remediation work.

General Scope of Work:

A licensed mold remediation contractor will be responsible for the following:

1. All items indicated in Remediation Scope of Work for Remediation Activities.
    a. Isolate the work area with a local containment made of six mil polyethylene. Maintain diminished negative pressure within the containment using a HEPA filter negative air machine. Cover all HVAC supply and return air registers in the work area with six-millimeter polyethylene. Post warning signs at the entrance to the work area in accordance with EPA, OSHA and TDLR requirements.
2. Install “air-scrubbers” equipped with HEPA filtration throughout the remediation area to clean the air during remediation and following completion of remediation.
3. As part of a qualified Mold Remediation Project, remove/clean or encapsulate all water damaged and/or mold impacted material as indicated in the Scope of Work. It is estimated that the areas listed in the scope of work will be impacted by the remediation. Based on visual inspection, additional quantities may exist inside wall cavity or behind walls. Mold growth that has been identified has the potential to grow, travel or increase in size due to conditions within the facility. **Contractor is responsible for verifying quantities in the field prior to the start of work.**
4. The integrity of the wall studs and all other structural members should be evaluated prior to remediation. **Contractor to remove 1 foot beyond any obvious water damage or visible mold growth.**
5. Upon completion of gross removal of building materials, complete the following for the building interior in the vicinity of the mold remediation project:
    a. Wipe down and remove all surface molds from exposed surfaces and wall studs. Wash affected exposed surfaces and wall studs with an EPA registered disinfectant detergent, (i.e., Sporicidin or Microban), per manufacturer’s recommendations. Ensure that the material is thoroughly dried to prevent the spread of mold proliferation.
    b. HEPA vacuum the base of the remediation areas in the vicinity of the work areas. Upon completion, operate “air scrubbers” equipped with HEPA filtration throughout the area to clean the air.

c. DO NOT apply encapsulant.

d. Upon completion of remediation, notify the licensed Mold Assessment Consultant so that a post remediation assessment can be conducted.

e. Upon achieving clearance for all work areas, remove barriers.

Scope of Work – Pods 200/400, et.al.

This work area includes Pods 200 & 400, Control Room, Control Room Restroom, two Plumbing/Mechanical Chases, two Mechanical Rooms, two Mezzanine Mechanical Rooms, unless otherwise noted.

Interior Demolition

1. Remove and dispose of gypsum board ceiling/plywood ceiling and support system throughout.
2. Remove and dispose of lay-in ceiling tiles/grid and walls in and around control room and associated restroom.
3. Remove and dispose of HVAC air handlers, ductwork, makeup air fan, controls, grills, registers, mixing boxes, exhaust ducts and other interior mechanical equipment.
4. Remove and dispose of smoke purge makeup air fan, associated ductwork, and support system.
5. Remove and dispose of raised floor and associated supports in control room, associated restroom, and connected platforms in Pods 200/400 & Pods 100/300.
6. Remove and dispose of steps to raised floor and associated supports in Pods 200/400 & Pods 100/300.
7. Remove and dispose of carpet/glue and other floor finishes in Pods 200/400.
8. Remove and dispose of interior doors excluding hinges in Pods 200/400, control room, control room restroom, and doors in Pods 100/300 leading to control room. Door frames are to remain in place.
9. Remove and dispose of washing machines, dryers, and associated hardware.
10. Remove and dispose of light fixtures (including whips back to junction boxes), wall ornaments, cabinetry, desks, and millwork including control room and Pods 200 & 400.
11. Remove and dispose of 6 showers, shower drains, moisture barriers, and surrounding gypsum board.
12. Remove gypsum wall board in and around washer/dryer areas.
13. Remove gypsum wall board in offices and group rooms.
14. Remove gypsum wall board around exterior doors.
15. Leave gypsum wall board constructed above all ceilings throughout building.
16. Clean structure beams, columns, and insulation backing motors. Leave in place.
17. Clean 12 tubular daylighting devices, **SAVE FOR REUSE**. Leave in place, if possible.

Mold Remediation

18. Clean, biocide, and sanitize ceiling system hanger wires extending to roof deck for possible use by others.
19. Clean, biocide, and sanitize all floors (approximately 9,970 square feet) and remaining walls (approximately 22,840 square feet) in Pods 200/400, control room, control room restroom, mechanical room, mechanical room mezzanine, and plumbing mechanical chase. Leave in place.
20. Clean, biocide, and sanitize plumbing equipment/lines, mop sink, gas lines, tanks, hot water heaters (approximately 150 square feet) throughout including mechanical room, mezzanine, and plumbing/mechanical chase. Leave in place, to be removed by others.
21. Clean, biocide, and sanitize all exterior doors and frames (approximately 360 square feet) in Pods 200 & 400 and mechanical rooms. Leave in place; to be removed by others.
22. Clean, biocide, and sanitize 2 louvers (approximately 120 square feet) at mezzanine mechanical rooms. Leave in place.
23. Clean, biocide, and sanitize cell door control panels, electronic boxes, solid conduit electrical wiring, electrical data equipment. Leave in place, to be removed by others.
24. Clean, biocide, and sanitize door frames, cell beds/tables, eating tables, windows, mirrors, and restroom lavatories, toilets, former shower enclosures and restroom accessories (approximately 540 square feet). Leave in place, to be removed by others.
25. Clean, biocide, and sanitize fire alarm boxes, security alarm boxes, electrical boxes, motors, railings, vertical ladders, conduit, plumbing lines, and fire extinguishers. Leave in place, to be removed by others.
26. Maintain differential pressure utilizing negative air machines equipped with HEPA filters continuously throughout the project duration.
27. Conduct HEPA filter air scrubbing during cleaning/removal and for a minimum of 48 hours after cleaning and prior to clearance.

Scope of Work – Pods 100/300 (there is no demolition in these areas)

This work area includes Pods 100 & 300.

Mold Remediation Only

1. Clean, biocide, and sanitize all exposed surfaces including ceilings (approximately 9,970 square feet), walls (approximately 20,860 square feet), floors (approximately 9,970 square feet), doors (approximately 1,218 square feet), and door frames (approximately 870 square feet).
2. Clean, biocide, and sanitize exposed surfaces of cell bed/tables, eating tables, mirrors, windows, window frames, HVAC equipment/ducts/registers, restroom lavatories/toilets/showers/accessories, plumbing lines, mop sinks, washing machine/accessories, and dryers/accessories.

3. Clean, biocide, and sanitize fire alarm boxes, security alarm boxes, electrical boxes, motors, railings, vertical ladders, conduit, plumbing lines, and fire extinguishers.
4. Clean, biocide, and sanitize cell door control panels, electronic boxes, solid conduit electrical wiring, electrical data equipment.
5. Clean, biocide, and sanitize all remaining items not listed above located within Pods 100/300.
6. Maintain differential pressure utilizing negative air machines equipped with HEPA filters continuously throughout the project duration.
7. Conduct HEPA filter air scrubbing during cleaning/removal and for a minimum of 48 hours after cleaning and prior to clearance.

Personal Protective Equipment

The remediation contractor shall provide appropriate personal protective equipment for executing the work. Minimum recommendations are as follows:

- Minimum of Disposable clothing constructed of suitable materials such as DuPont Tyvek or equivalent.
- Minimum of Half-face respirators approved by NIOSH equipped with an N-95 filter.
- Minimum Headgear, eye protection, work gloves and footwear of size to properly fit individual workers and/or authorized visitors.

General Mold Remediation Requirements

- Isolate the entire remediation work area from the public using warning tape, posting an 8” x 11” yellow sign with black lettering stating “NOTICE: Mold Remediation Project in Progress.
- Perform all work using HEPA vacuum or HEPA filtered negative air machine to generate air changes. Exhaust air outside of the building in such a manner as to avoid exhaust air being re-introduced into the facility. Barriers and ventilation should be placed in such a manner as to prevent spore migration from the current work area to other areas within the building.
- Move all movable objects away from the wall. Clean and sanitize all non-porous equipment with EPA registered product. Discard any porous materials as these materials cannot be effectively cleaned and sanitized.
- Remove any additional mold/water damaged materials discovered during remediation activities (i.e., wall studs and supporting frame work).
- Clean walls, wall cavities, floors, and non-porous materials with an EPA registered disinfectant detergent per manufacturer’s recommendations.
- Apply Encapsulant AFTER Mold Assessment Consultants Visual Inspection.
- Notify the Mold Assessment Consultant upon completion for clearance and cleanliness verification.

- Quantity of remediation is estimated, contractor is responsible for verifying quantities in the field.

Worker Decontamination

- Provide a decontamination area to allow workers to properly decontaminate prior to exiting the work area or removing materials from the work area. Use the following decontamination procedures for personnel in work area:
- Remove protective clothing before exiting the work area.
- Wet clean or HEPA-vacuum respirator, inner suit and exposed portions of the body in decontamination area.
- Maintain respiratory protection throughout the decontamination process.

POST REMEDIATION CLEARANCE REPORT

After remediation is complete for each work area, air scrubbers are recommended to be operated for at least 48 hours prior to the post remediation assessment. The post remediation assessment shall be conducted prior to build back.

The work area must be free from all visible mold, wood rot and water damage. Analytical and procedural inspection will be performed while the containment structure is still erected to determine adequate remediation.

The Mold Assessment Consultant will perform a post remediation clearance including the following:

- Visual inspection - A visual inspection of remediated areas for the absence of visible mold, dust, and wood rot prior to encapsulation.
- Analytical evaluation – Surface samples, as determined by the Mold Assessment Consultant prior to encapsulation.
- Surface samples must report no more than "**VERY LOW**" relative abundance of fungal spores according to Laboratory report.

Laboratory Surface Sample Relative Abundance Range			
N.D.	**None Detected**	No Fungal Spores Detected	PASS
<1+	**Scattered Spores**	1-20 fungal spores	PASS
1+	**Very Low**	21-100 fungal spores	PASS
2+	**Low**	101-1,000 fungal spores	FAIL
3+	**Moderate**	1,001-1,000 fungal spores	FAIL
4+	**High**	>10,000 fungal spores	FAIL

- **NO Stachybotrys** spores may be present for the containment to be considered clear.

A Post Remediation Clearance report will be issued by the Mold Assessment Consultant upon meeting clearance criteria.

SUBMITTALS

Submit proposed schedule and methods and operations to the Owner for review prior to the start of work. Include in the schedule the coordination for shut-off, capping and continuation of utility services as required.

Provide a detailed sequence of interior demolition and mold remediation work.

General Mold Remediation Requirements

Buildings and other structures to be demolished will be vacated and discontinued in use prior to the start of the work.

The Owner assumes no responsibility for the actual condition of structures to be demolished.

Conditions existing at the time of inspection for bidding purposes will be maintained by the Owner insofar as practicable. However, variations within the structure may occur by Owner's removal and salvage operations prior to the start of the demolition work.

Items of salvable value to the Contractor may be removed from the structure as the work progresses. Salvaged items must be transported from the Project Site as they are removed.

Storage or sale of removed items on the Project Site will not be permitted.

Historic artifacts, including time capsules, cornerstones and their contents, commemorative plaques and tablets, antiques, Christian figures, and other articles of historic significance remain the property of the Owner. Notify Owner's Representative if such items are encountered and obtain acceptance regarding method of removal and salvage for Owner.

The use of explosives will not be permitted.

Do not bring explosives to the Project Site or use any explosives without the written consent of authorities having jurisdiction.

Conduct all work operations and the removal of debris to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities.

Maintain existing utilities indicated to remain, keep in service, and protect against damage during work.

Do not interrupt existing utilities serving occupied or used facilities, except when authorized in writing by authorities having jurisdiction. Provide temporary service during interruptions to existing utilities, as acceptable to the governing authorities.

The Contractor will disconnect and seal the utilities serving the work area, prior to the start of work.

Contractor to coordinate with Owner the shut-off and capping of utility services serving the building as required.

Contractor shall protect the storm sewers, contain any runoff and keep adjacent streets and parking lots free of debris, dirt, mud, etc.

Structures to remain in place shall be protected from damage during all phases of work.

Contractor shall be responsible for preventing unauthorized personnel from entering the work area.

Contractor shall field verify the work indicated prior to work. Report discrepancies or concerns immediately to Owner or Owner's representative.

The Owner assumes no responsibility for the actual condition of structures to be demolished.

The demolition work specified herein shall be performed in a safe, satisfactory condition, starting with the ceiling and working down, with the safety and welfare of all people and property being of the highest priority.

The Contractor shall haul off all debris and unsalvageable materials; and no debris or rubble which may pose a threat to public safety will be left on the site overnight. No such debris or material will be placed on a sidewalk or public right-of-way so that it poses a danger to any person.

Conditions existing at the time of inspection for bidding purposes will be maintained by the Owner insofar as practicable. However, variations within the structure may occur by Owner's removal and salvage operations prior to the start of the demolition work.

Storage or sale of removed items on the Project Site will not be permitted.

Comply with the governing regulations pertaining to environmental protection.

Do not use water when it may create hazardous or objectionable conditions such as ice, flooding and pollution.

Clean adjacent structures and improvements of all dust, dirt and debris caused by demolition operations, as directed by the Owner or Owner's Representative or governing authorities. Return adjacent areas to condition existing prior to the start of the work.

DOCUMENT 00 0110
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By Owner

COVER PAGE

REPORTS

DIVISION 01 – GENERAL REQUIREMENTS

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DIVISION 14 -- CONVEYING EQUIPMENT

NOT USED

DIVISION 22 – PLUMBING (ASEI)

DIVISION 23 – HEATING, VENTILATION AND AIR CONDITIONING (ASEI)

DIVISION 26 – ELECTRICAL (ASEI)

DIVISION 32 – EXTERIOR IMPROVEMENTS

DIVISION 33 – UTILITIES (D+A CIVIL)

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SECTION 26 41 00
LIGHTNING PROTECTION SYSTEM

PART ONE - GENERAL

1.01 SECTION INCLUDES:

A. Renovation and recertification of existing lightning protection system.
B. Furnish all labor, materials, and items of service required for completion of a functional and unobtrusive lightning protection system.
C. System furnished shall be the standard product of manufacturer's regularly engaged in the production of lightning protection equipment.
D. Lightning protection system shall be as approved by Owner and Consultant.
E. Cooperate with the roofing contractor and roofing material manufacturer to maintain roofing warranties.

1.02 RELATED SECTIONS:

A. 02 07 20 - Minor Demolition and Renovation Work.
B. 07 52 00 - Modified Bitumen Membrane Roofing.
C. 07 62 00 - Sheet Metal Flashing and Trim.
D. 07 92 00 - Joint Sealants.

1.03 STANDARDS:

A. Lightning Protection Institute Installation Standard, LPI 175.
B. Underwriters Laboratories, Inc. Installation Requirement, UL96A.
C. National Fire Protection Association Lightning Protection Code, NFPA78.
D. National Electrical Code (NEC).

1.04 SUBMITTALS:

A. Product Data: Submit manufacturer's data sheets for each product to be used.
B. Shop Drawings:
    1. Submit shop drawings.
    2. Prepare scaled roof plan locating and identifying all required details.
    3. Show type, size, and location of all grounding, down conductors, through roof/through wall assemblies, and roof conductors.
C. Certificates:
    1. Underwriters Laboratories Inc. Master Label.
    2. Lightning Protection Institute Certification.
    3. Field-applied certification plates.

1.05 QUALITY ASSURANCE:

A. Applicator:
   1. Employees Certified Master Installers.
   2. Company is UL listed.
   3. Member of Lightning Protection Institute.
B. Regulatory Requirements: The lightning protection system shall conform to the requirements of the LPI, UL, NFPA, and NEC.
C. Inspection: Contractor shall apply to Underwriters Laboratories Inc. for inspection and certification.

PART TWO - PRODUCTS

2.01 MATERIALS:

A. Aluminum sized, weighted, and constructed to suit pre-application.
B. Bolt type connectors and splicers shall be utilized.
C. All mounting hardware shall be stainless steel.
D. Ground rods shall be stainless steel of appropriate diameter.
E. Air Terminals: Blunt end aluminum units.
F. Braided Cable: Aluminum braided cable.
G. Sealant Adhesive: Non-slump moisture curing structural sealant, gray in color, such as "M-1 Structural Sealant" by ChemLink, Inc.

PART THREE - EXECUTION

3.01 GENERAL INSTALLATION:

A. The installation shall be accomplished by an experienced installation company that is UL listed, a member of the Lightning Protection Institute, United Lightning Protection Association qualified, and an employer of Certified Master Installers of lightning protection systems.
B. A Certified Master Installer shall directly supervise the work.
C. All equipment shall be installed in a neat, workmanlike manner.
D. The system shall consist of a complete conductor network at the roof and include air terminals, connectors, splicers, bonds, copper downleads, and proper ground terminals.
E. Lightning Protection System:
   1. Temporarily disconnect, remove, and salvage the lightning protection system including, but not limited to, cables, holders, clamps, and clips.
   2. Install the lightning protection system so that, upon completion, system can be re-certified by UL.
   3. Install equipment in a neat, workmanlike manner.
   4. System shall consist of a complete conductor network at the roof and include air terminals, connectors, splicers, bonds, and other associated hardware.
   5. Secure bases of air terminals and cable holders to inside vertical face of coping with appropriate fasteners.
   6. Set air terminal bases and metal cable holders in bed of sealant adhesive on top of cut section of protection pad installed on top of roof, where applicable.

3.02 COORDINATION:

A. The lightning protection installer will work with other trades to ensure a correct, neat, and unobtrusive installation.
B. It shall be the responsibility of the lightning protection installer to assure a sound bond to the main water service and to assure interconnection with other ground systems.

3.03 CLEANING:

A. Remove trash, debris, equipment, and parts from the jobsite.
B. Clean exposed metal surfaces, removing substances that might cause corrosion of metal components.

END OF SECTION

BRAVE / architecture

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JC DIVERSION CENTER RENOVATION

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B/A PROJ. #: 23141

	05/02/2024	SCHEMATIC DESIGN
	06/14/2024	DESIGN DEVELOPMENT
	08/23/2024	90% CONSTRUCTION DOCUMENTS
	09/23/2024	100% CONSTRUCTION DOCUMENTS
1	11/01/2024	ADDENDUM # 01
3	11/06/2024	ADDENDUM #03
4	11/08/2024	ADDENDUM #04

100% CONSTRUCTION DOCUMENTS ADDENDUM #04

PROJECT TEAM:

ARCHITECT	BRAVE / ARCHITECTURE
CIVIL	DALLY + ASSOCIATES
LANDSCAPE	KW LANDSCAPE ARCHITECTS
STRUCTURAL	DALLY + ASSOCIATES
MEP	ASEI ENGINEERING
BUILDING ENVELOPE	PRICE CONSULTING, INC
AV/IT CONSULTANT	DATACOM DESIGN GROUP

AB	ANCHOR BOLT	JAN	JANITOR
ACOUS	ACOUSTICAL	JST	JOIST
AD	ACCES DOOR	JT	JOINT
ADA	AMERICAN WITH DISABILITIES ACT		
ADJUST.	ADJUSTABLE	LAM	LAMINATE (D)
ADJ	ADJACENT	LAV	LAVATORY
AFF	ABOVE FINISHED FLOOR	LGTH	LENGTH
AGG	AGGREGATE	LH	LEFT HAND
AHU	AIR HANDLING UNIT	LIN	LINEAR
ALT	ALTERNATE	LOKR	LOCKER(S)
ALUM	ALUMINUM	LL	LIVE LOAD
ANOD	ANODIZED	LT	LIGHT
APPROX	APPROXIMATELY	LWT	LIGHTWEIGHT
AP	ACCESS PANEL		
A-R	ABUSE RESISTANT	MACH	MACHINE
ARCH	ARCHITECT (URAL)	MAINT	MAINTENANCE
A-S	AS SHOWN	MAS	MASONRY
ASPH	ASPHALT	MATL	MATERIAL
ATN	ATTENUATION (ING)	MAX	MAXIMUM
AUTO	AUTOMATIC	MB	MACHINE BOLT
AUX	AUXILIARY	MECH	MECHANICAL
AVE	AVENUE	MEMB	MEMBRANE
AVG	AVERAGE	MEP	MECHANICAL, ELECTRICAL, PLUMBING
A/C	AIR CONDITIONING	MFR	MANUFACTURER
A/V	AUDIO VISUAL	MH	MANHOLE
		MIN	MINIMUM
BD	BOARD	MISC	MISCELLANEOUS
BLDG	BUILDING	ML	METAL LATH
BLKG	BLOCKING	MO	MASONRY OPENING
BLK	BLOCK	MR	MOISTURE RESISTANT
BM	BEAM	MTD	MOUNTED
BOT	BOTTOM	MTG	MOUNTING
BRG	BEARING	MTL	METAL
BRKT	BRACKET	MULL	MULLION
BSMT	BASEMENT		
BTW	BETWEEN	NIC	NOT IN CONTRACT
BUR	BUILT UP ROOFING	NOM	NOMINAL
B&B	BALLED & BURLAPPED	NO. OR #	NUMBER
B-B	BACK TO BACK	NRC	NOISE REDUCTION COEFFICIENT
B.M.	BENCH MARK	NTS	NOT TO SCALE
B/F	BOTH FACES		
		OA	OVERALL
CAB	CABINET	OC	ON CENTER (S)
CB	CHALK BOARD	OD	OUTSIDE DIAMETER
CCTV	CLOSED CIRCUIT TELEVISION	OFCI	OWNER FURNISHED / CONTRACTOR INSTALL
CEM	CEMENT		
CER	CERAMIC	OFF	OFFICE
CFMF	COLD FORMED METAL FRAMING		
CIP	CAST IN PLACE	OFOI	OWNER FURNISHED / OWNER INSTALLED
CI PIPE	CAST IRON PIPE		
CJ	CONTROL JOINT	OH	OVERHEAD
CKBD	CHALKBOARD	OPH	OPPOSITE HAND
CLG	CEILING	OPNG	OPENING
CLR	CLEAR (ANCE)	OPP	OPPOSITE
CLT	CLOSET	ORD	OVERFLOW ROOF DRAIN
CMU	CONCRETE MASONRY UNIT	O/A	OUTSIDE AIR
CNTR	COUNTER		
COL	COLUMN	PART	PARTITION
COMPRES	COMPRESSIBLE	PCF	POUNDS PER CUBIC FOOT
COMP	COMPOSITION	PCP	PORTLAND CEMENT PLASTER
CONC	CONCRETE	PERF	PERFORATED
COND	CONDITION	PLAM	PLASTIC LAMINATE
CONF	CONFERENCE	PLAST	PLASTER
CONST	CONSTRUCTION	PLAS	PLASTIC
CONTR	CONTRACTOR	PLBG	PLUMBING
CONT	CONTINUOUS	PLWD	PLYWOOD
CORRU	CORRUGATED	PNL	PANEL
CORR	CORRIDOR	POL	POLISHED
CSMT	CASEMENT	PRKG	PARKING
CTR	CENTER	PR	PAIR
CTSK	COUNTERSUNK	PSF	POUNDS PER SQUARE FOOT
CT	CERAMIC TILE	PSI	POUNDS PER SQUARE INCH
CU FT	CUBIC FOOT (FEET)	PTD	PAINTED
CU YD	CUBIC YARD	PVC	POLYVINYL CHLORIDE
C	CURB	PVG	PAVING
C-C	CENTER TO CENTER	PVMT	PAVEMENT
C.O.	CASED OPENING	P.L.	PROPERTY LINE
		P/C	PRECAST
DB	DRY MARKER BOARD		
DBL	DOUBLE	QT	QUARRY TILE
DEFL	DEFLECTION		
DF	DRINKING FOUNTAIN	R	RADIUS
DIAG	DIAGONAL	R/AG	RETURN AIR GRILLE
DIA	DIAMETER	R/A	RETURN AIR
DIM	DIMENSION	RCP	REFLECTED CEILING PLAN
DISC	DISCONNECT	RD	ROOF DRAIN
DISP	DISPENSER	REBAR	REINFORCING BAR
DL	DEAD LOAD	RECEPT	RECEPTION
DMPRG	DAMPROOFING	RECEP	RECEPTACLE
DN	DOWN	RECOM	RECOMMENDATION
DR	DOOR	REC	RECESSED
DS	DOWNSPOUT	REG	REGULATION
DTL	DETAIL	REINF	REINFORCED
DWC	DRYWALL FURRING CHANNEL	REQD	REQUIRED
DWG	DRAWING	RES	RESILIENT
D	DEPTH	RET	RETURN
		REV	REVISION
EA	EACH	RE:	REFER TO
EFOB	EXTERIOR FACE OF BUILDING	RFG	ROOFING
EIFS	EXTERIOR INSULATED FINISH SYSTEM	RH	RIGHT HAND
EJ	EXPANSION JOINT	RI	RISER
ELAS	ELASTIC (ELASTOMERIC)	RM	ROOM
ELEC	ELECTRICAL	ROW	RIGHT OF WAY
ELEV	ELEVATOR	R.T.U.	ROOF TOP UNIT
EL	ELEVATION		
EMER	EMERGENCY	SCHED	SCHEDULE
EP	EXPLOSION PROOF	SC	SOLID CORE
EQUIP	EQUIPMENT	SECT	SECTION
EQ	EQUAL	SF	SQUARE FEET
ESR	ELASTIC SHEET ROOFING	SHLV	SHELVES(ING)
EWC	ELECTRIC WATER COOLER	SHTHG	SHEATHING
EWH	ELECTRIC WATER HEATER	SHT	SHEET
EW	EACH WAY	SHWR	SHOWER(S)
EWSH	EYE WASH	SPEC	SPECIFICATION
EXH	EXHAUST	SQ	SQUARE
EXIST	EXISTING	SS	STAINLESS STEEL
EXPAN	EXPANSION	STAB	STABILIZE (D)
EXP	EXPOSED	STA	STATION
EXT	EXTERIOR	STC	SOUND TRANSMISSION COEFFICIENT
		STD	STANDARD
FA	FIRE ALARM	STL	STEEL
FC	FIRE CODE	STG	STORAGE
FD	FLOOR DRAIN	STR	STRUCTURE (AL)
FEC	FIRE EXTINGUISHER CABINET	SUSP	SUSPENDED
FHC	FIRE HOSE CABINET	SW	SWITCH
FH	FIRE HYDRANT	SYM	SYMMETRICAL
FIN	FINISH (ED)	SYN	SYNTHETIC
FIXT	FIXTURE	S/AD	SUPPLY AIR DIFFUSER
FLRG	FLOORING		
FLR	FLOOR	TA	TOILET ACCESSORY
FLSHG	FLASHING	T.A.S.	TEXAS ACCESSIBILITY STANDARDS
FLUOR	FLUORESCENT	T.B.	TACK BOARD
FL	FLOW LINE	TCOC	TEXTURED COATING ON CONCRETE
FM	FACTORY MUTUAL	T.O.	TOP OF
FR	FIRE RETARDANT	T.O.C.	TOP OF CURB
FRPF	FIREPROOF	TEL	TELEPHONE
FS	FULL SIZE	TEMP	TEMPERED
FTG	FOOTING	THK	THICK (NESS)
FT	FOOT (FEET)	THRES	THRESHOLD
FURN	FURNISH	TB	TACKBOARD
FURR	FURRED (ING)	TLT	TOILET (S)
F.V.	FIELD VERIFY	TRZO	TERRAZZO
FVC	FIRE VALVE CABINET	TR	TREAD
		TTC	TELEPHONE TERMINAL CABINET
GALV	GALVANIZED	TV	TELEVISION
GAL	GALLON	TYP	TYPICAL
GA	GAGE	T	TOP
GC	GENERAL CONTRACTOR		
GD	GRADE, GRADING	UL	UNDERWRITERS LABORATORY
GEN	GENERAL	UNO	UNLESS NOTED OTHERWISE
GI	GALVANIZED IRON	UR	URINAL
GL	GLASS, GLAZING		
GMMU	GLASS MESH MORTAR UNIT	VAC	VACUUM
GMP	GUARANTEED MAXIMUM PRICE	VCT	VINYL COMPOSITION TILE
GR	GROUND	VERT	VERTICAL
GYP	GYPSUM	VEST	VESTIBULE
		VIF	VERIFY IN FIELD
HB	HOSE BIBB	VWC	VINYL WALL COVERING
HC	HOLLOW CORE		
HDCP	HANDICAPPED	WC	WATER CLOSET
HDWD	HARDWOOD	WDW	WINDOW
HDWR	HARDWARE	WD	WOOD
HD	HEAD	WF	WIDE FLANGE
HFS	HALF FULL SIZE	WH	WALL HUNG
HM	HOLLOW METAL	WI	WROUGHT IRON
HORIZ	HORIZONTAL	WP	WATERPROOF (ING)
HP	HORSEPOWER		
HR	HOUR	WR	WATER RESISTANT
HT	HEIGHT	WT	WEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING	WWF	WELDED WIRE FABRIC
		WP	WORK POINT
HYD	HYDRANT	W/I	WITHIN
		W/O	WITHOUT
IBC	INTERNATIONAL BUILDING CODE	WP	WORK POINT
ID	INSIDE DIAMETER	W/	WITH
INCAND	INCANDESCENT	W/I	WITHIN
INCL	INCLUDE		
INFO	INFORMATION	XFMR	TRANSFORMER
INSUL	INSULATION (ING)		
INT	INTERIOR		
IN	INCH		
IPS	INSIDE PIPE SIZE		

ABBREVIATIONS 12" = 1'-0" 1

GRASS

COMPACTED EARTH FILL (SECTION)

ROCK FILL (SECTION)

COMMON BRICK (PLAN AND SECTION)

TYPICAL CMU (PLAN AND SECTION)

CAST-IN-PLACE CONCRETE (SECTION)

TYPICAL STONE (SECTION)

MARBLE (PLAN AND SECTION)

TERRAZZO (SECTION)

CERAMIC TILE (SECTION)

STEEL (PLAN AND SECTION)

SOLID SURFACING (SECTION)

CEMENT BOARD (SECTION)

GYPSUM BOARD (SECTION)

PLASTER (PLAN AND SECTION)

METAL SOFFIT PANEL

PLYWOOD (SECTION)

FINISHED WOOD (PLAN, ELEV, AND SECTION)

BATT INSULATION (SECTION)

BATT INSULATION (SECTION)

ACOUSTICAL TILE (SECTION)

WOOD FRAMING - INTERRUPTED (BLOCKING, SHIM, ETC.)

WOOD FRAMING - CONTINUOUS (SECTION)

MATERIAL CONVENTIONS 15

FLOOR DUPLEX OUTLET - GROUNDED

FLOOR TELEPHONE OUTLET

FLOOR DATA OUTLET

FLOOR DATA / ELECTRICAL OUTLET

WP — WALL MOUNTED DUPLEX POWER OUTLET WITH WEATHERPROOF COVER - GROUNDED

WALL MOUNTED DUPLEX POWER OUTLET (GROUNDED)

GFI — WALL MOUNTED DUPLEX POWER OUTLET (GFI)

WALL MOUNTED QUADPLEX POWER OUTLET (GROUNDED)

PLUGMOLD - GROUNDED

WALL MOUNTED TELEPHONE OUTLET (GROUNDED)

WALL MOUNTED DATA / ELECTRICAL OUTLET

D — WALL MOUNTED DATA OUTLET

WALL MOUNTED COAX OUTLET

WALL MOUNTED LIGHT FIXTURE

J — ELECTRICAL J BOX

2X4 FLUORESCENT LIGHT FIXTURE.

2X2 FLUORESCENT LIGHT FIXTURE.

1X4 FLUORESCENT LIGHT FIXTURE.

FLUORESCENT STRIP LIGHT.

RECESSED "CAN" LIGHT FIXTURE. SEE MEP

RECESSED "CAN" ADJUSTABLE LIGHT FIXT-POINT TO DIRECTION OF ARROW.

PENDANT LIGHT FIXTURE.

BUILDING WALL LIGHT FIXTURE. SEE MEP

PENDANT HUNG MH LIGHT FIXTURE. SEE MEP

CEILING SPEAKER - RECESSED

WALL SCONCE LIGHT FIXTURE. SEE MEP

PENDANT LIGHT FIXTURE. DRAW TO SCALE. SEE MEP

FIRE SPRINKLER HEAD. COORDINATE WITH SPRINKLER INSTALLER. ARCHITECT HAS FINAL APPROVAL OF HEAD LOCATIONS.

TRACK LIGHTING. DRAW TO SCALE. SHOW CORRECT NUMBER OF HEADS

WALL MOUNTED "HOLLYWOOD" LIGHTING

GROUND MOUNTED UP LIGHT(S)

$ — WALL SWITCH

$3 — WALL SWITCH (3-WAY)

$4 — WALL SWITCH (4-WAY)

$D — WALL SWITCH DIMMER

S.A.C. — RECESS MOUNTED SECURITY ACCESS CARD

S.K.P. — RECESS MOUNTED SECURITY KEY PAD

S.C.P. — RECESS MOUNTED SECURITY CONTROL PANEL

S — WALL MOUNTED SMOKE DETECTOR

WALL MOUNTED EMERGENCY LIGHT BATTERY POWERED

EXIT LIGHT CEILING MOUNTED; NON-DIRECTIONAL

EXIT LIGHT CEILING MOUNTED - DIRECTIONAL, POINT ARROW IN DIRECTION OF EGRESS

EXIT LIGHT WALL MOUNTED; NON-DIRECTIONAL

EXIT LIGHT WALL MOUNTED - DIRECTIONAL, POINT ARROW IN DIRECTION OF EGRESS

T — WALL MOUNTED THERMOSTAT

B — WALL MOUNTED BELL BUTTON

C — WALL MOUNTED BELL CHIME

WALL MOUNTED CLOCK

MECH. & ELEC. DRAWING SYMBOLS 13

PENDANT LIGHT ABOVE

CONTINUOUS SHELF OR UNDER COUNTER LIGHT FIXT, DRAW TO SCALE

2'x2' LAY-IN ACOUSTICAL TILE SUSPENDED CEILING SYSTEM

CEILING FAN

CEILING FAN ABOVE

WALL MOUNTED SUPPLY DIFFUSER. SEE MEP

WALL MOUNTED RETURN DIFFUSER. SEE MEP

HVAC SUPPLY AIR SLOT. SEE MEP

HVAC RETURN AIR SLOT. SEE MEP

HVAC SUPPLY GRILLE. SEE MEP

HVAC RETURN GRILLE. SEE MEP

HVAC RETURN/EXHAUST GRILL. SEE MEP

MECH. & ELEC. DRAWING SYMBOLS 12

NORTH SYMBOL

WORKING POINT: START WORK AT THIS LOCATION

+333.77 — EXISTING GRADE ELEVATION

+333.77 — NEW GRADE / SLAB ELEVATION

BOUNDARY OF WORK AREA

RE: XX/A.XXX
RE: XX/A.XXX — DRAWING MATCHLINE

REVISION NUMBER

REVISION CLOUD

6'-0" 4'-0" 10'-0" 10'-0" FV 10'-0" — DIMENSIONS: All dimensions to face of stud unless otherwise noted

FIELD VERIFY: Indicate existing dim.- contractor to field verify.

DOTS: Indicate centerline of object or column lines

EXISTING PARTITION REMAINS

REMOVE PARTITION

NEW PARTITION

EXISTING DOOR REMAINS

REMOVE DOOR

PROVIDE DOOR

COL — EXISTING COLUMN LINE

COL — NEW COLUMN LINE

0'-0" A.F.F. T.O. CONC. — FLOOR LINE (ELEVATION)

UPPER ROOM / 1111.1 / 000 S.F. / 0'-0"A.F.F. — ROOM DESIGNATION

110.1A — DOOR DESIGNATION

110.1A — WINDOW DESIGNATION

KEY NOTE DESIGNATION

A3 — PARTITION TYPE DESIGNATION

S.XXX — SIGNAGE DESIGNATION

CPT. — FINISH MATERIAL DESIGNATION

1 — ACCESSORY/EQUIPMENT DESIGNATION

[CS.01] — CASEWORK DESIGNATION

A.XXX / XX — PICTURE LOCATION DESIGNATION

XX/A.XXX — EXTERIOR ELEVATION DESIGNATION

XX/A.XXX — INTERIOR ELEVATION DESIGNATION

XX/A.XXX — DETAIL AND VERTICAL SECTIONS

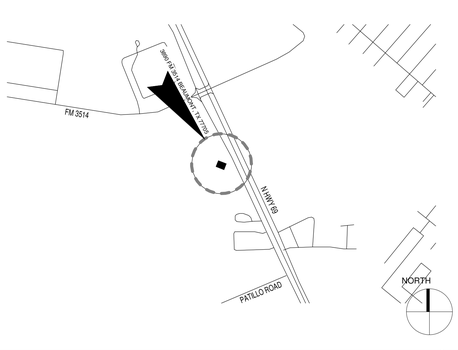
XX / A.XXX — BUILDING / WALL SECTION

XX / A.XXX — BUILDING / WALL SECTION

XX/A.XXX — ENLARGED DETAIL

DRAWING SYMBOLS 9

SITE LOCATION MAP 8



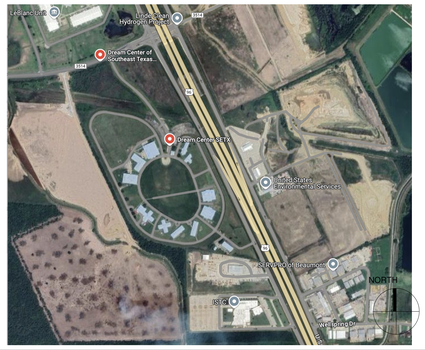
SHEET INDEX 5

SHEET NUMBER	SHEET NAME	24SEP23 100 CD	24NOV01 ADD # 01	24NOV08 ADD # 04
GENERAL INFORMATION				
G.001	INDEX & GENERAL INFO	Yes	Yes	Yes
G.010	CODE REVIEW	Yes	Yes	
G.011	LIFE SAFETY SITE PLAN	Yes		
G.012	LIFE SAFETY FLOOR PLAN	Yes		
G.020	TEXAS ACCESSIBILITY GUIDELINES	Yes		
G.030	SITE SURVEY	Yes		
G.050	MASTER KEY NOTES & GENERAL NOTES	Yes		
G.051	MASTER KEY NOTES	Yes		
CIVIL				
C1.00	DEMOLITION PLAN	Yes	Yes	
C2.00	LAYOUT PLAN	Yes		
C3.00	PAVING PLAN	Yes		
C4.00	UTILITY PLAN	Yes		
C5.00	GRADING PLAN	Yes		
C6.00	DRAINAGE AREA MAP	Yes		
C7.00	SWPP	Yes		
C8.00	SITE DETAIL SHEET 1 OF 2	Yes		
C8.01	SITE DETAIL SHEET 2 OF 2	Yes		
LANDSCAPE				
L1.01	LANDSCAPE PLAN	Yes		
L1.02	LANDSCAPE NOTES AND DETAILS	Yes		
L2.01	IRRIGATION PLAN	Yes		
L2.02	IRRIGATION NOTES AND DETAILS	Yes		
DEMOLITION DRAWINGS				
D.010	DEMOLITION - SITE PLAN	Yes		
D.011	DEMOLITION - SITE PHOTOS	Yes		
D.101	DEMOLITION - OVERALL FLOOR PLAN	Yes	Yes	Yes
D.110	DEMOLITION - ENLARGED FLOOR PLAN POD 200	Yes	Yes	Yes
D.111	DEMOLITION - INTERIOR PHOTOS	Yes	Yes	
D.121	DEMOLITION - OVERALL REFLECTED CEILING PLAN	Yes	Yes	
D.125	DEMOLITION - ENLARGED REFLECTED CEILING POD 200	Yes	Yes	
D.200	DEMOLITION - ROOF PLAN	Yes		
D.300	DEMOLITION - EXTERIOR ELEVATION	Yes		
SITE DRAWINGS				
A.010	SITE PLAN	Yes		
A.030	ENLARGED SITE PLAN	Yes		
A.040	SITE DETAILS	Yes		
FLOOR PLANS				
A.100	OVERALL FLOOR PLAN	Yes	Yes	Yes
A.101	ENLARGED FLOOR PLAN - POD 200	Yes		Yes
A.102	ENLARGED FLOOR PLAN - POD 400	Yes		Yes
A.105	OVERALL REFLECTED CEILING PLAN	Yes		
A.121	ENLARGED REFLECTED CEILING PLAN - POD 200	Yes	Yes	
A.122	ENLARGED REFLECTED CEILING PLAN - POD 400	Yes		
A.150	FINISH SCHEDULE	Yes	Yes	
A.151	OVERALL FINISH PLAN	Yes	Yes	
A.152	ENLARGED FINISH PLAN - POD 200	Yes	Yes	
ROOF PLANS				
A.200	ROOF PLAN	Yes		
A.201	ROOF DETAILS	Yes	Yes	
BUILDING ELEVATIONS				
A.300	EXTERIOR ELEVATIONS	Yes		
BUILDING SECTIONS				
A.401	BUILDING SECTIONS	Yes		
A.402	BUILDING SECTIONS	Yes		
WALL SECTIONS				
A.501	INTERIOR WALL SECTIONS	Yes		
A.502	EXTERIOR WALL SECTIONS	Yes	Yes	
BUILDING DETAILS				
A.601	PLAN DETAILS	Yes	Yes	
A.610	SECTION DETAILS	Yes	Yes	
A.611	EXTERIOR GLAZING & DOOR DETAILS	Yes	Yes	
A.630	PARTITION TYPES	Yes		
A.631	UL FIRE RATED ASSEMBLIES	Yes		
INTERIOR DETAILS				
A.701	INTERIOR ELEVATIONS	Yes	Yes	
A.702	INTERIOR ELEVATIONS	Yes	Yes	
A.710	MILLWORK DETAILS	Yes		
A.711	MILLWORK DETAILS	Yes		
A.730	STANDARD MOUNTING, LOCATIONS & TOILET ROOM CONFIGURATION	Yes		
SCHEDULES				
A.820	TYPICAL DOOR TYPES, SCHEDULES & HARDWARE TYPES	Yes	Yes	
A.821	DOOR DETAILS	Yes		
A.830	SIGNAGE SCHEDULE	Yes		
A.840	GLAZING SCHEDULE, FRAME TYPES & INTERIOR GLAZING DETAILS	Yes	Yes	
STRUCTURAL				
S101	GENERAL STRUCTURAL CRITERIA	Yes		
S201	DEMO PLAN	Yes		
S202	FOUNDATION PLAN	Yes		
S301	TYPICAL SITE FOUNDATION DETAILS	Yes		
MECHANICAL				
M0.1	MECHANICAL ABBREVIATIONS AND SYMBOLS	Yes		
M0.2	MECHANICAL COMCHECK	Yes		
M0.3	MECHANICAL COMCHECK	Yes		
M1.1	MECHANICAL PLAN	Yes		
M2.1	MECHANICAL SCHEDULES	Yes		
M2.2	OUTSIDE AIR CALCULATIONS	Yes		
M3.1	MECHANICAL DETAILS	Yes		

SHEET INDEX 8

SHEET NUMBER	SHEET NAME	24SEP23 100 CD	24NOV01 ADD # 01	24NOV08 ADD # 04
ELECTRICAL				
E0.1	ELECTRICAL GENERAL NOTES/SHEET INDEX	Yes		
E0.2	ELECTRICAL SYMBOLS	Yes		
E1.1	ELECTRICAL SITE PLAN	Yes		
E1.2	ELECTRICAL SITE PHOTOMETRIC	Yes		
E2.1	LIGHTING PLAN - LEVEL 1	Yes		
E2.2	LIGHT FIXTURES CUT SHEET	Yes		
E2.3	LIGHTING CONTROLS DIAGRAMS/SCHEDULES	Yes		
E3.1	POWER PLAN - LEVEL 1	Yes		
E3.2	HVAC MEZZANINE POWER PLAN	Yes		
E4.1	SINGLE-LINE DIAGRAM/CALCS	Yes		
E6.1	PANELBOARD SCHEDULES	Yes		
E6.2	PANELBOARD SCHEDULES	Yes		
E7.1	LIGHTING COMCHECK	Yes		
PLUMBING				
P0.1	PLUMBING ABBREVIATIONS AND SYMBOLS	Yes		Yes
P1.1	PLUMBING - WASTE	Yes	Yes	Yes
P1.2	PLUMBING - WATER	Yes		
P1.3	PLUMBING - ROOF PLAN	Yes	Yes	Yes
P2.1	PLUMBING SCHEMATICS	Yes		
P3.1	PLUMBING SCHEDULES AND CALCULATIONS	Yes		
FS.01	FIRE SPRINKLER PLAN - LEVEL 1	Yes		
FS.02	FIRE SPRINKLER PLAN - MEZZANINE	Yes		
FIRE SAFETY				
FS.01	FIRE SPRINKLER PLAN - LEVEL 1	Yes		
FS.02	FIRE SPRINKLER PLAN - MEZZANINE	Yes		
TECHNOLOGY				
T.001	LEGENDS AND NOTES - COMMUNICATIONS	Yes		
T.010	SITE PLAN - COMMUNICATIONS	Yes		
T.100	OVERALL FIRST FLOOR PLAN - COMMUNICATIONS	Yes		
T.401	GENERAL DETAILS - COMMUNICATIONS	Yes		
SECURITY				
SC.001	LEGEND AND NOTES - SECURITY	Yes		
SC.010	SITE PLAN - SECURITY	Yes		
SC.100	OVERALL FIRST FLOOR PLAN - SECURITY	Yes		
SC.301	DOOR ELEVATION DETAILS - SECURITY	Yes		
SC.401	GENERAL DETAILS - SECURITY	Yes		
SC.402	GENERAL DETAILS - SECURITY	Yes		

VICINITY MAP 4



PROJECT DESCRIPTION 3

GENERAL SCOPE OF WORK

THIS PROJECT CONSISTS OF REMOVATING AND REDESIGNING AN ABANDONED JUVENILE DETENTION FACILITY INTO A DIVERSION CENTER

SPECIFIC SCOPE OF WORK

PROJECT WORK INCLUDES DEMOLITION OF FINISHES AND PARTITIONS, ADDITION OF STRUCTURAL STEEL AND CONCRETE TO SUPPORT MODIFICATION OF EXISTING SPACES, REFINISHING AND COSMETIC ALTERATIONS OF INDIVIDUAL UNITS FOR SHORT-TERM RESIDENTIAL OCCUPATION INCLUDING ADDITION OF CASEWORK AND MILLWORK UNITS; ADAPTIVE REUSE OF SHARED SPACES AND FACILITIES INCLUDING SHARED KITCHENS, BATHROOM AND SHOWER FACILITIES, STORAGE ROOMS, AND "DAY ROOM" ACTIVITY CENTERS. EXTERIOR MODIFICATIONS TO IMPROVE THERMAL PERFORMANCE AND INTERIOR COMFORT INCLUDE FACADE AND WINDOW REPLACEMENT AND NEW ROOF. NEW MECHANICAL EQUIPMENT, PLUMBING, FIRE SPRINKLER SYSTEMS, ELECTRICAL AND LIGHTING SYSTEMS.

SHEET INDEX 1

SHEET NUMBER	SHEET NAME	24SEP23 100 CD	24NOV01 ADD # 01	24NOV08 ADD # 04
G.001	INDEX & GENERAL INFO	Yes	Yes	Yes
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G.011	LIFE SAFETY SITE PLAN	Yes		
G.012	LIFE SAFETY FLOOR PLAN	Yes		
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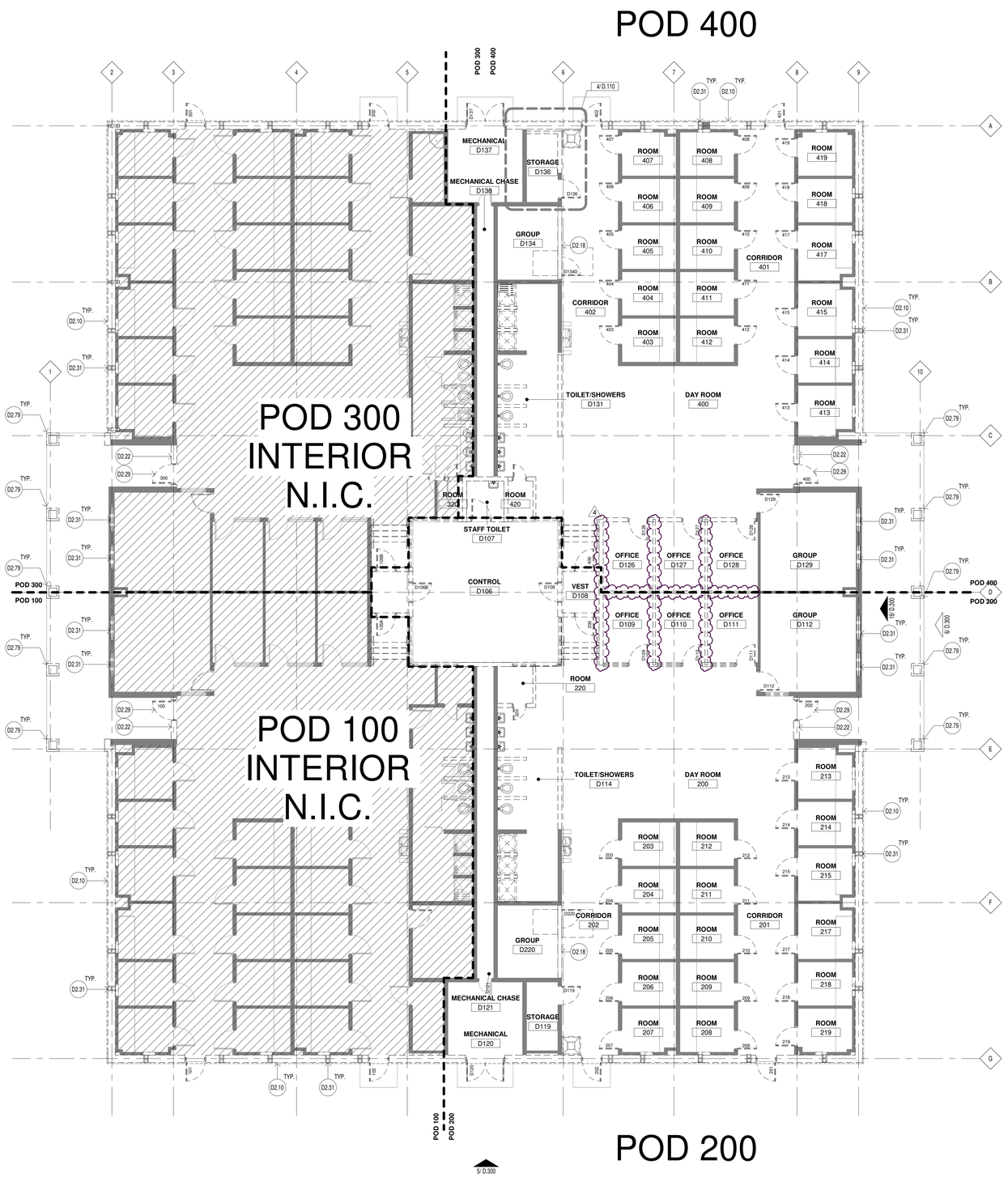
G.050	MASTER KEY NOTES & GENERAL NOTES	Yes		
G.051	MASTER KEY NOTES	Yes		
C1.00	DEMOLITION PLAN	Yes	Yes	
C2.00	LAYOUT PLAN	Yes		
C3.00	PAVING PLAN	Yes		
C4.00	UTILITY PLAN	Yes		
C5.00	GRADING PLAN	Yes		
C6.00	DRAINAGE AREA MAP	Yes		
C7.00	SWPP	Yes		
C8.00	SITE DETAIL SHEET 1 OF 2	Yes		
C8.01	SITE DETAIL SHEET 2 OF 2	Yes		
L1.01	LANDSCAPE PLAN	Yes		
L1.02	LANDSCAPE NOTES AND DETAILS	Yes		
L2.01	IRRIGATION PLAN	Yes		
L2.02	IRRIGATION NOTES AND DETAILS	Yes		
D.010	DEMOLITION - SITE PLAN	Yes		
D.011	DEMOLITION - SITE PHOTOS	Yes		
D.101	DEMOLITION - OVERALL FLOOR PLAN	Yes	Yes	Yes
D.110	DEMOLITION - ENLARGED FLOOR PLAN POD 200	Yes	Yes	Yes
D.111	DEMOLITION - INTERIOR PHOTOS	Yes	Yes	
D.121	DEMOLITION - OVERALL REFLECTED CEILING PLAN	Yes	Yes	
D.125	DEMOLITION - ENLARGED REFLECTED CEILING POD 200	Yes	Yes	
D.200	DEMOLITION - ROOF PLAN	Yes		
D.300	DEMOLITION - EXTERIOR ELEVATION	Yes		
A.010	SITE PLAN	Yes		
A.030	ENLARGED SITE PLAN	Yes		
A.040	SITE DETAILS	Yes		
A.100	OVERALL FLOOR PLAN	Yes	Yes	Yes
A.101	ENLARGED FLOOR PLAN - POD 200	Yes		Yes
A.102	ENLARGED FLOOR PLAN - POD 400	Yes		Yes
A.105	OVERALL REFLECTED CEILING PLAN	Yes		
A.121	ENLARGED REFLECTED CEILING PLAN - POD 200	Yes	Yes	
A.122	ENLARGED REFLECTED CEILING PLAN - POD 400	Yes		
A.150	FINISH SCHEDULE	Yes	Yes	
A.151	OVERALL FINISH PLAN	Yes	Yes	
A.152	ENLARGED FINISH PLAN - POD 200	Yes	Yes	
A.200	ROOF PLAN	Yes		
A.201	ROOF DETAILS	Yes	Yes	
A.300	EXTERIOR ELEVATIONS	Yes		
A.401	BUILDING SECTIONS	Yes		
A.402	BUILDING SECTIONS	Yes		
A.501	INTERIOR WALL SECTIONS	Yes		
A.502	EXTERIOR WALL SECTIONS	Yes	Yes	
A.601	PLAN DETAILS	Yes	Yes	
A.610	SECTION DETAILS	Yes	Yes	
A.611	EXTERIOR GLAZING & DOOR DETAILS	Yes	Yes	
A.630	PARTITION TYPES	Yes		
A.631	UL FIRE RATED ASSEMBLIES	Yes		
A.701	INTERIOR ELEVATIONS	Yes	Yes	
A.702	INTERIOR ELEVATIONS	Yes	Yes	
A.710	MILLWORK DETAILS	Yes		
A.711	MILLWORK DETAILS	Yes		
A.730	STANDARD MOUNTING, LOCATIONS & TOILET ROOM CONFIGURATION	Yes		
A.820	TYPICAL DOOR TYPES, SCHEDULES & HARDWARE TYPES	Yes	Yes	
A.821	DOOR DETAILS	Yes		
A.830	SIGNAGE SCHEDULE	Yes		
A.840	GLAZING SCHEDULE, FRAME TYPES & INTERIOR GLAZING DETAILS	Yes	Yes	
S101	GENERAL STRUCTURAL CRITERIA	Yes		
S201	DEMO PLAN	Yes		
S202	FOUNDATION PLAN	Yes		
S301	TYPICAL SITE FOUNDATION DETAILS	Yes		
M0.1	MECHANICAL ABBREVIATIONS AND SYMBOLS	Yes		
M0.2	MECHANICAL COMCHECK	Yes		
M0.3	MECHANICAL COMCHECK	Yes		
M1.1	MECHANICAL PLAN	Yes		
M2.1	MECHANICAL SCHEDULES	Yes		
M2.2	OUTSIDE AIR CALCULATIONS	Yes		
M3.1	MECHANICAL DETAILS	Yes		
E0.1	ELECTRICAL GENERAL NOTES/SHEET INDEX	Yes		
E0.2	ELECTRICAL SYMBOLS	Yes		
E1.1	ELECTRICAL SITE PLAN	Yes		
E1.2	ELECTRICAL SITE PHOTOMETRIC	Yes		
E2.1	LIGHTING PLAN - LEVEL 1	Yes		
E2.2	LIGHT FIXTURES CUT SHEET	Yes		
E2.3	LIGHTING CONTROLS DIAGRAMS/SCHEDULES	Yes		
E3.1	POWER PLAN - LEVEL 1	Yes		
E3.2	HVAC MEZZANINE POWER PLAN	Yes		
E4.1	SINGLE-LINE DIAGRAM/CALCS	Yes		
E6.1	PANELBOARD SCHEDULES	Yes		
E6.2	PANELBOARD SCHEDULES	Yes		
E7.1	LIGHTING COMCHECK	Yes		
P0.1	PLUMBING ABBREVIATIONS AND SYMBOLS	Yes		Yes
P1.1	PLUMBING - WASTE	Yes	Yes	Yes
P1.2	PLUMBING - WATER	Yes		
P1.3	PLUMBING - ROOF PLAN	Yes	Yes	Yes
P2.1	PLUMBING SCHEMATICS	Yes		
P3.1	PLUMBING SCHEDULES AND CALCULATIONS	Yes		
FS.01	FIRE SPRINKLER PLAN - LEVEL 1	Yes		
FS.02	FIRE SPRINKLER PLAN - MEZZANINE	Yes		
T.001	LEGENDS AND NOTES - COMMUNICATIONS	Yes		
T.010	SITE PLAN - COMMUNICATIONS	Yes		
T.100	OVERALL FIRST FLOOR PLAN - COMMUNICATIONS	Yes		
T.401	GENERAL DETAILS - COMMUNICATIONS	Yes		
SC.001	LEGEND AND NOTES - SECURITY	Yes		
SC.010	SITE PLAN - SECURITY	Yes		
SC.100	OVERALL FIRST FLOOR PLAN - SECURITY	Yes		
SC.301	DOOR ELEVATION DETAILS - SECURITY	Yes		
SC.401	GENERAL DETAILS - SECURITY	Yes		



OVERALL DEMOLITION FIRST FLOOR PLAN | 1/8" = 1'-0" | 5

D2.10 Remove metal wall panels and metal stud walls, structure to remain
D2.18 Remove wall, door and window in this area to receive new hollow metal frame and door. Re: proposed floor plans.
D2.22 Remove wall finishes; patch and prepare surface for new construction
D2.29 Remove door and frame; patch and prepare surface for new construction
D2.31 Remove window and frame, prepare for new windows. refer to floor plans for opening size
D2.79 Remove column surround. Structure to remain.

1

MODIFIED DEMOLITION SCOPE OF WORK

Mold Remediation demolition scope has been modified, so Demolition required by GC has been reduced. Listed below are items allocated to remediation vs Renovation GC. Sheet note on D.101, D.110, D.111, D.121 and D.125 revised.

Mold Remediation Demolition scope of work (Not in Contract)

a) All Interior Doors from hinges down will be removed.
b) All exterior doors and frames will be cleaned wiped down, no demolition.
c) All CMU wall and interior dry wall with mold will be wiped down, no demolition.
d) All types of ceilings in POD 200 and 400 and all ceilinged mounted lighting fixtures to be demolished.
e) Raised floor, steps, walls, windows, ceiling grid and ceiling tiles at Control Room to be demolished.
f) Existing mechanical ductwork and existing smoke purge system to be demolished.

Renovation GC Demolition scope of work (in Contract)

a) All Interior Door Frames to be demolished as shown in the drawings.
g) All exterior doors and frames to be demolished as shown in the drawings.
h) All CMU wall and interior dry wall to be demolished as shown in drawings.
i) Existing ductwork removal by remediation contractor may leave holes in the wall of the mechanical room/mezzanine floor or other spaces that needs to be patched and repaired.
j) Exterior soffit at entry canopy and exterior walls to be demolished as show in the drawings.
k) Existing roof patching at rusted locations to be repaired and patched as noted in the drawings.

KEYNOTES | 2

NOT IN SCOPE

EXISTING TO REMAIN

EXISTING TO BE DEMOLISHED

NOTES:

1. ALL UNIT DOORS TO BE REPLACED.
2. REF. D.110 FOR TYPICAL DEMOLITION NOTES FOR ALL PODS, U.N.O.

GENERAL NOTES | 1

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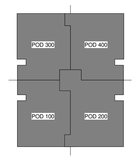
KEYPLAN:



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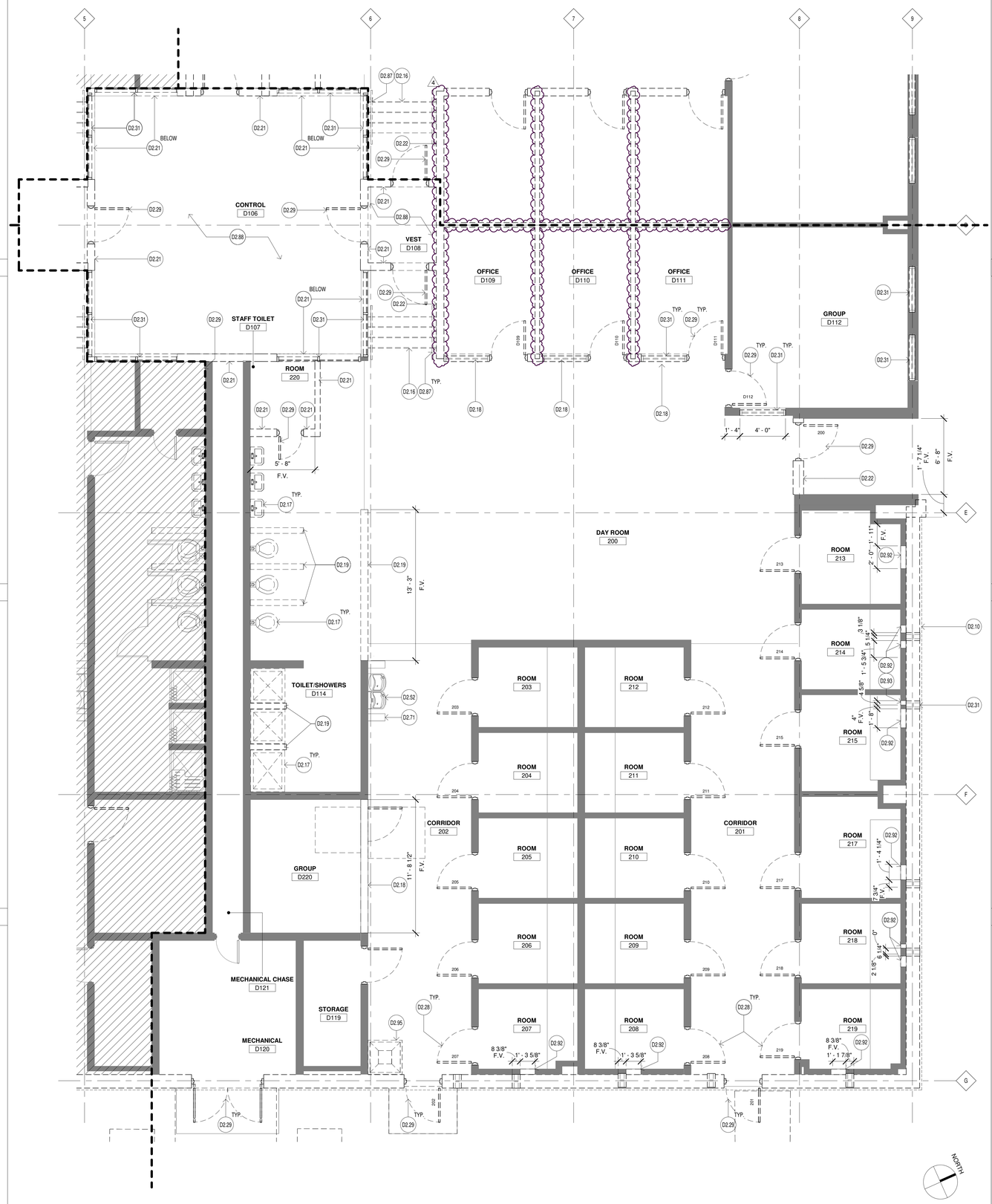
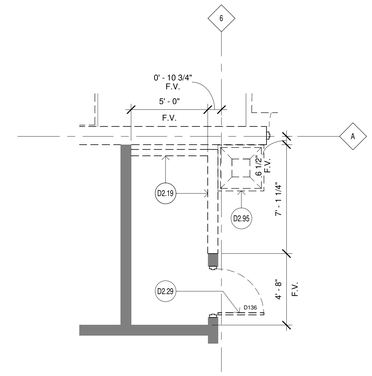
DEMOLITION - OVERALL FLOOR PLAN

Scale: AS NOTED

D.101



ENLARGED DEMOLITION FLOOR PLAN - POD B | 1/4" = 1'-0" | 5



ENLARGED FLOOR PLAN - D136 | 1/4" = 1'-0" | 4

1

MODIFIED DEMOLITION SCOPE OF WORK

Mold Remediation demolition scope has been modified, so Demolition required by GC has been reduced. Listed below are items allocated to remediation vs Renovation GC.
Sheet note on D.101, D.110, D.111, D.121 and D.125 revised.

Mold Remediation Demolition scope of work (Not in Contract)

a) *All Interior Doors from hinges down will be removed.*
b) *All exterior doors and frames will be cleaned wiped down, no demolition.*
c) *All CMU wall and interior dry wall with mold will be wiped down, no demolition.*
d) *All types of ceilings in POD 200 and 400 and all ceilinged mounted lighting fixtures to be demolished.*
e) *Raised floor, steps, walls, windows, ceiling grid and ceiling tiles at Control Room to be demolished.*
f) *Existing mechanical ductwork and existing smoke purge system to be demolished.*

Renovation GC Demolition scope of work (in Contract)
a) *All Interior Door Frames to be demolished as shown in the drawings.*
g) *All exterior doors and frames to be demolished as shown in the drawings.*
h) *All CMU wall and interior dry wall to be demolished as shown in drawings.*
i) *Existing ductwork removal by remediation contractor may leave holes in the wall of the mechanical room/mezzanine floor or other spaces that needs to be patched and repaired.*
j) *Exterior soffit at entry canopy and exterior walls to be demolished as show in the drawings.*
k) *Existing roof patching at rusted locations to be repaired and patched as noted in the drawings.*

D2.10 Remove metal wall panels and metal stud walls, structure to remain
D2.16 Remove stair; patch and prepare surfaces for new floor finishes
D2.17 Remove plumbing fixture as noted
D2.18 Remove wall, door and window in this area to receive new hollow metal frame and door. Re: proposed floor plans.
D2.19 Demo wall base, wall finish and wall where indicated; prepare for new construction
D2.21 Remove wall, wall base, and floor finishes
D2.22 Remove wall finishes; patch and prepare surface for new construction
D2.28 Remove door
D2.29 Remove door and frame; patch and prepare surface for new construction
D2.31 Remove window and frame, prepare for new windows, refer to floor plans for opening size
D2.52 Remove drinking fountain; prepare surface for new construction Re: MEP
D2.71 Existing wall to remain
D2.87 Remove railing; patch and prepare surface for new construction
D2.88 Remove floor finishes, platform and platform structure; patch and prepare surface for new floor finishes
D2.92 Remove interior CMU wall to receive new Window for new construction
D2.93 Infill interior CMU wall to receive new Window for new construcion
D2.95 Remove mop sink, cap and remove plumbing fixture and drain; patch and prepare surface for new construction

ENLARGED PLAN NOTES:

1. POD - 200 AS SHOWN ON THIS PLAN
2. POD - 400 IDENTICAL TO THIS PLAN UNO.

KEYNOTES | 2

NOT IN SCOPE

EXISTING TO REMAIN

EXISTING TO BE DEMOLISHED

NOTES:

1. TYPICAL DEMOLITION NOTES AT ALL PODS, U.N.O.
2. ALL UNIT DOORS TO BE REPLACED WITH TYPE 1, REFERENCE A.820
3. DEMO ON POD 400 IDENTICAL TO POD 200, U.N.O.

GENERAL NOTES | 1

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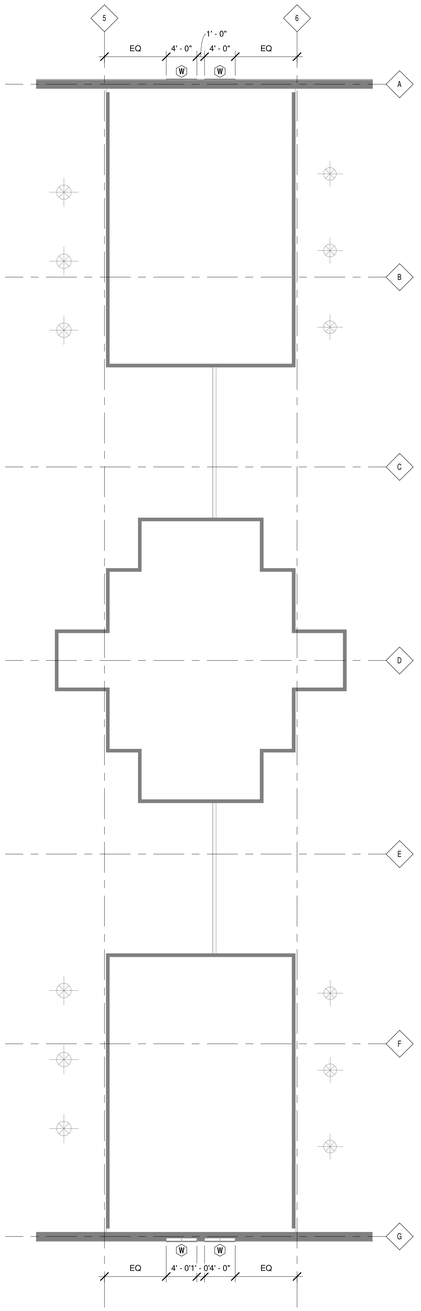
DEMOLITION - ENLARGED FLOOR PLAN POD 200

Scale: AS NOTED

D.110



ROOF DRAIN NOTE:

1. ADD CONCRETE SPLASH BLOCK AT EVERY ROOF DRAIN. LOCATION TO BE ALIGNED WITH ROOF DRAIN NOZZLE. RE: ROOF PLAN FOR QUANTITY AND LOCATION

NOTES:
THE FOLLOWING INSULATION VALUES TO BE USED PER IBC TABLE C402.1.3

ROOFS:
ABOVE DECK: R-25ci
METAL BUILDINGS: R-19 + R-11 LS

WALLS, ABOVE GRADE:
METAL BUILDING: R13 + R-6.5ci
METAL FRAMED: R-13 + R-5ci

KEYNOTES 2

NOT IN SCOPE

EXISTING WALLS

NEW CONSTRUCTION

MATCH LINES

NOTES:

1. EXTERIOR WORK INCLUDES NEW WALL CONSTRUCITON, NEW WALL METAL PANELS, NEW RECOVERY ROOFING SYSTEM, NEW WINDOWS AND NEW EXTERIOR DOORS OF THE ENTIRE BUILDING.
2. INTERIOR BUILDING OUT INCLUDES UPGRADING INTEIROR WALL AND FINISHES OF POD 200 AND POD 400 INCLUDING CONTROL ROOM, ALL MECHANICAL SPACES AND MEZZANINE FLOOR.
3. SPRINKER HEAD INSTALLATION AND RELATED WORK INCLDUED FOR ENTIRE BUILDING. PHASE I INCLUDES EXTERIOR
4. REFERENCE A.110 FOR TYPICAL NEW CONSTRUCTION NOTES, U.N.O.
5. ALL DIMENSIONS TO BE FIELD VERIFIED

MECHANICAL MEZZANINE 1/8" = 1'-0" 17

OVERALL FIRST FLOOR PLAN 1/8" = 1'-0" 5

LEGEND 1

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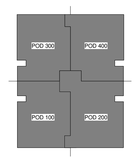
KEYPLAN:



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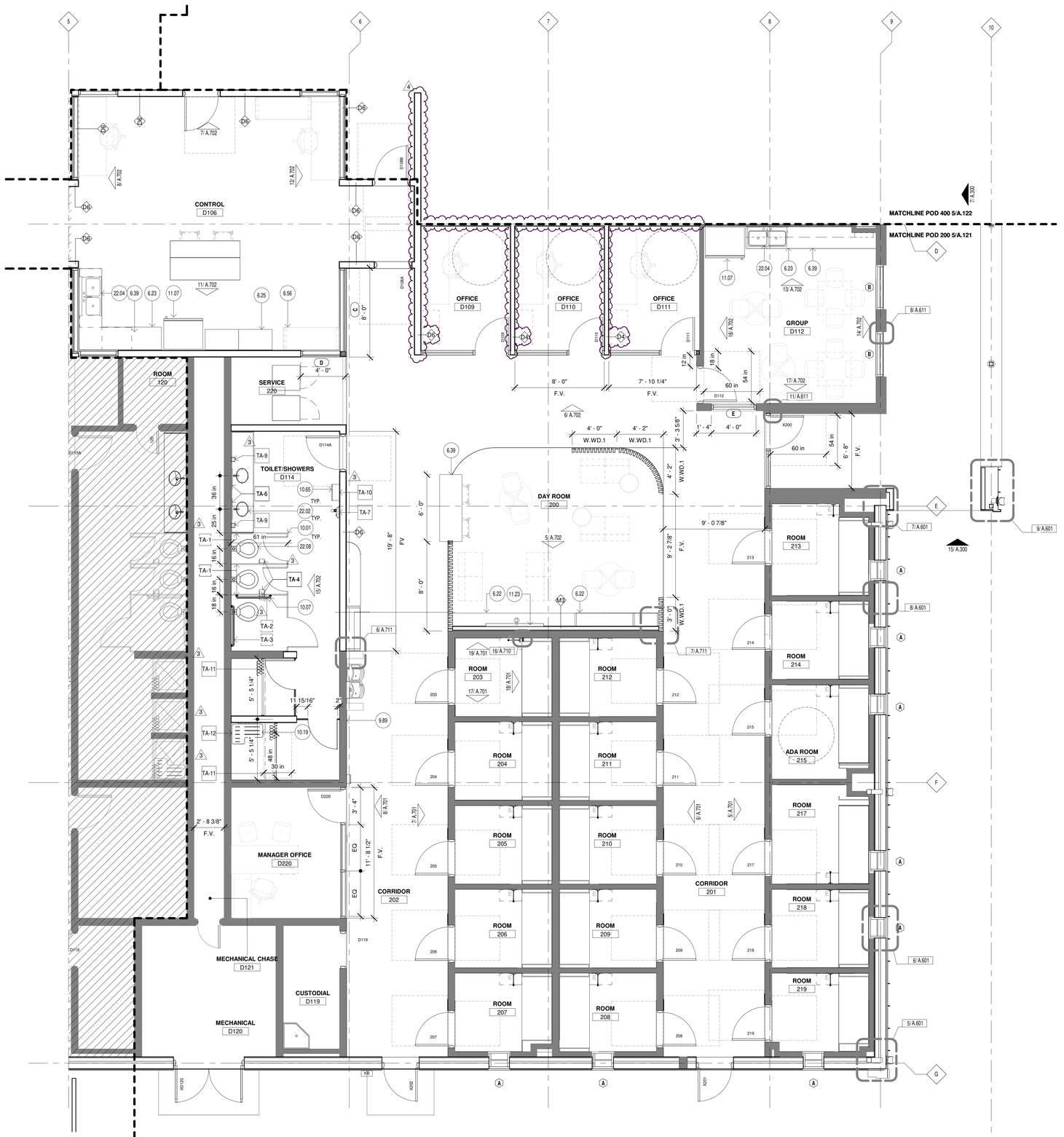
OVERALL FLOOR PLAN

Scale: AS NOTED

A.100



ENLARGED FLOOR PLAN - POD 200 | 1/4" = 1'-0" | 5

6.22	Millwork; re: Millwork details
6.23	Base cabinets; re: Millwork details
6.25	Tall cabinets; re: Millwork details
6.39	Countertop; re: Millwork details & Finish schedule
6.56	Desk - Furniture Owner Provided Owner Installed
9.89	Existing wall; Field verify
10.01	Toilet partition(s) , re: Accessory schedule
10.07	Grab bar, 36" long, re: Accessory schedule
10.19	Folding shower seat, re: Accessory schedule
10.65	Surface mounted waste receptacle, re: Toilet Accessories Schedule
11.07	Refrigerator - Owner Provided Contractor Installed
11.23	Wall-mounted flat panel television
22.02	Counter-mount lavatory; re: Plumbing
22.04	Two-compartment sink; re: Plumbing
22.08	Wall-mount water closet; re: Plumbing

NOTES:
THE FOLLOWING INSULATION VALUES TO BE USED PER IBC TABLE C402.1.3

ROOFS:
ABOVE DECK: R-25ci
METAL BUILDINGS: R-19 + R-11 LS

WALLS, ABOVE GRADE:

METAL BUILDING: R13 + R-6.5ci
METAL FRAMED: R-13 + R-5ci

KEYNOTES | 2

NOT IN SCOPE

EXISTING WALLS

NEW CONSTRUCTION

MATCH LINES

ENLARGED PLAN NOTES:

1. POD - 200 AS SHOWN
2. POD - 400 IDENTICAL TO POD 200 UNO.

NOTES:

1. REFER TO TYPICAL NOTES FOR NEW CONSTRUCTION IN ALL PODS, U.N.O.
2. FURNITURE SHOWN FOR REFERENCE ONLY AND TO BE PROVIDED BY OWNER
3. ALL DIMENSIONS TO BE FIELD VERIFIED

LEGEND | 1

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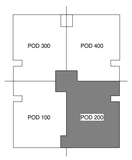

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10/30/2024

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ENLARGED FLOOR PLAN - POD 200

Scale: AS NOTED

A.101

ENLARGED FLOOR PLAN - POD 200 | 1/4" = 1'-0" | 5

10.06	Grab bar, 42" long, re: Accessory schedule
10.07	Grab bar, 36" long, re: Accessory schedule
22.01	Wall-mount lavatory; re: Plumbing
22.08	Wall-mount water closet; re: Plumbing
22.15	Floor drain; re: Plumbing

NOTES:
THE FOLLOWING INSULATION VALUES TO BE USED PER IBC TABLE C402.1.3

ROOFS:
ABOVE DECK: R-25ci
METAL BUILDINGS: R-19 + R-11 LS

WALLS, ABOVE GRADE:

METAL BUILDING: R13 + R-6.5ci
METAL FRAMED: R-13 + R-5ci

KEYNOTES | 2

NOT IN SCOPE

EXISTING WALLS

NEW CONSTRUCTION

MATCH LINES

ENLARGED PLAN NOTES:

1. POD - 200 AS SHOWN
2. POD - 400 IDENTICAL TO POD 200 UNO.

NOTES:

1. POD 400 IS SIMILAR AS POD 200. ALL KEY NOTES, DIMENSIONS AND SCOPE OF WORK APPLIES FROM SHEET A.101, UNLESS NOTED OTHERWISE. REFER TO SHEET A.101 FOR CONTROL ROOM INFORMATION.
2. REFER TO TYPICAL NOTES FOR NEW CONSTRUCTION IN ALL PODS, U.N.O.
3. FURNITURE AND EQUIPENTS ARE SHOWN FOR REFERENCE ONLY. THEY ARE TO BE OWNER PROVIDED CONTRACTOR INSTALLED.
4. ALL DIMENSIONS TO BE FIELD VERIFIED

LEGEND | 1

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KEYPLAN:

SEAL:

10/30/2024

FILE:
DRAWN BY: Author
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ISSUE:

	05/02/2024	SCHEMATIC DESIGN
	06/14/2024	DESIGN DEVELOPMENT
	08/23/2024	90% CONSTRUCTION DOCUMENTS
	09/23/2024	100% CONSTRUCTION DOCUMENTS
3	11/06/2024	ADDENDUM #03
4	11/08/2024	ADDENDUM #04

ENLARGED FLOOR PLAN - POD 400

Scale: AS NOTED

A.102

PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
	W	WASTE OR SEWER PIPING
	CWV	COMBINATION WASTE AND VENT
GW	GW	GREASE WASTE
	V	VENT PIPING
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	HWR	HOT WATER RETURN PIPING
G	G	NATURAL GAS PIPING
FW	FW	FILTERED WATER PIPING
RD	RD	ROOF DRAIN LEADER
RD	RD	ROOF OVERFLOW DRAIN LEADER
D	D/CD	INDIRECT OR CONDENSATE DRAIN
	-	ISOMETRIC CONTINUATION
	-	PIPE RISE
	-	PIPE DROP
	-	PIPE DROP UNDER A HORIZONTAL PIPE
	-	PIPE CAP
	-	PIPE BREAK
	GV	GATE VALVE
	GBV	GLOBE VALVE
	BV	BALL VALVE
	CV	CHECK VALVE
	PV	PLUG VALVE
	SV	SOLENOID VALVE
	-	BALANCING VALVE
	BV	BUTTERFLY VALVE
	-	UNION
	-	REDUCER
	HB	HOSE BIBB
	GPR	GAS PRESSURE REGULATOR
	F	FIRE SPRINKLER PIPING
	FS	FLOOR SINK
	FD	FLOOR DRAIN
	FCO/SCO	FLOOR OR SURFACE CLEAN OUT
	WCO	WALL CLEANOUT
	RD/OD	ROOF DRAIN / OVERFLOW DRAIN
	VTR	VENT THRU ROOF
	TP	TRAP PRIMER
	WHA	WATER HAMMER ARRESTOR
	PDP	POSITIVE DISPLACEMENT PUMP
	CP	CENTRIFUGAL PUMP
	POC	POINT OF CONNECTION BETWEEN NEW AND EXISTING

NOTE: ALL SYMBOLS MAY NOT APPLY

REFERENCE SYMBOLS

- # / SHEET — GENERAL REFERENCE DESIGNATES SHEET NUMBER
- # / SHEET — DETAIL REFERENCE TOP DESIGNATES DETAIL NUMBER BOTTOM DESIGNATES SHEET NUMBER
- # / XO.0 — SECTION REFERENCE TOP DESIGNATES SECTION NUMBER BOTTOM DESIGNATES SHEET NUMBER
- NAME / # — EQUIPMENT NAME AND NUMBER
- # — SHEET KEYNOTE NUMBER
- # — REVISION NUMBER
- ELEVATION SYMBOL
- NEW CONNECTION TO EXISTING

PLUMBING SPECIFICATIONS

NOTE: ALL SPECIFICATIONS MAY NOT APPLY

NOTICE TO OWNERS, ARCHITECTS AND CONTRACTORS REGARDING PRICING ESTIMATES
1. UNDER NO CIRCUMSTANCES SHALL THESE DRAWINGS BE "FINAL" OR "HARD BID" UNTIL THE PROJECT IS FULLY PERMITTED.
2. ALL PRELIMINARY PRICING EFFORTS SHALL BE CONSIDERED AS ESTIMATES ONLY AND SHALL INCLUDE SUCH CONTINGENCIES, ALLOWANCES, ALTERNATIVES, ETC. TO ACCOUNT FOR MODIFICATIONS AND ADDITIONS THAT WILL OCCUR TO THE DRAWINGS DURING FINALIZATION OF THE DESIGN AND PERMITTING PROCESS.

SCOPE OF WORK
1. ALL WORK REQUIRED CONSISTS OF PERFORMING ALL LABOR AND FURNISHING ALL MATERIALS, FIXTURES AND EQUIPMENT REQUIRED TO PROVIDE COMPLETE PLUMBING INSTALLATION AS INDICATED ON THE DRAWINGS. IT SHALL FURTHER INCLUDE FURNISHING AND INSTALLING ALL MISCELLANEOUS ITEMS REQUIRED FOR THE OPERATION OF THE SYSTEMS, WHETHER SPECIFICALLY CALLED FOR OR NOT. CONNECT ALL EQUIPMENT FURNISHED UNDER OTHER TRADES AS REQUIRED. DETERMINE IN ADVANCE THE SHUT-DOWN OF EXISTING UTILITIES.
2. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
3. SPECIAL INSPECTIONS: WHERE THE PLANS INDICATE SPECIAL INSPECTIONS AND REPORT, OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, HIRE AN INDEPENDENT THIRD PARTY INSPECTOR OR TESTING AGENCY TO PERFORM THE REQUIRED INSPECTIONS FOR THE TYPES OF WORK REQUIRED OR IDENTIFIED ON THE SPECIAL INSPECTION FORM. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO THE REGISTERED DESIGN PROFESSIONAL ENGINEER, PROVIDING TEST RESULTS AND STATING WHETHER THE ITEMS REQUIRING SPECIAL INSPECTION WERE IN COMPLIANCE WITH THE INSPECTION REQUIREMENTS. PROVIDE ADDITIONAL COST FOR ENGINEER'S SEALED LETTER OF APPROVAL.

CODES
1. ALL MATERIALS, EQUIPMENT AND INSTALLATION MUST COMPLY WITH ALL APPLICABLE LAWS, CODES, RULES, AND REGULATIONS, REQUIRED BY CITY, COUNTY, STATE, AND FEDERAL AGENCIES.

PERMITS
1. THIS CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES AND FEES REQUIRED BY STATE AND LOCAL AUTHORITIES.
2. COMBUSTIBLE MATERIALS SHALL NOT BE USED IN A NON-COMBUSTIBLE CONSTRUCTION TYPE BUILDING AS DEFINED BY THE BUILDING CODE. COMBUSTIBLE MATERIALS SHALL BE PROTECTED AS SPECIFIED BY THE ENGINEER AND ARCHITECT OF RECORD.

INSPECTION
1. FURNISH OWNER WITH CERTIFICATE OF INSPECTION AND APPROVAL BY LOCAL AUTHORITIES PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL WORK MUST BE INSPECTED.

EXISTING CONDITIONS
1. THIS CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE WORK TO BE PERFORMED, IN ADDITION TO WHAT IS SHOWN HEREIN, AND INCLUDE IN BID AN AMOUNT TO DO SUCH WORK.
2. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE MAKING UP OR INSTALLATION OF NEW SYSTEM.
3. PRIOR TO COMMENCING WORK, PLUMBING CONTRACTOR SHALL CLEAN, TEST AND INSPECT ALL EXISTING ABOVE AND BELOW GROUND SEWER LINES TO INSURE THAT EXISTING SEWER PIPING IS IN SATISFACTORY WORKING CONDITION. CONTRACTOR SHALL REPORT ANY DEFECTS/DEFICIENCIES TO OWNER/ARCHITECT IMMEDIATELY. SUBMIT ADDENDUM BID TO ACCOMMODATE ANY REPAIR/REPLACEMENTS AS REQUIRED.
4. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.

SHOP DRAWING SUBMITTALS
1. PRIOR TO PROCUREMENT, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW FOR ALL EQUIPMENT, INCLUDING THE FOLLOWING:
   A. DOMESTIC WATER, GAS, SANITARY AND STORM PIPING AND FITTINGS.
   B. BALL, BUTTERFLY VALVES, PRESSURE REDUCING VALVES AND SOLENOID VALVES.
   C. THERMAL INSULATION.
   D. WATER HEATERS AND PUMPS.
   E. OIL AND GREASE INTERCEPTORS.

MATERIALS
WATER PIPING:
1. ALL PIPING SHALL CONFORM TO THE REQUIREMENTS OF THE ANSI SAFETY CODE AND BE FREE FROM ALL DEFECTS AND BE PROPERLY IDENTIFIED.
2. ABOVE GROUND SHALL BE:
   2.1. TYPE "L" OR TYPE "M" HARD DRAWN COPPER TUBING CONFORMING TO ASTM B 88-72
   2.2. CPVC PLASTIC PIPE CONFORMING TO ASTM D 2846; ASTM F 441-442; CSA B137.6
   2.3. CROSS-LINKED POLYETHYLENE (PEX) PLASTIC TUBING, IF ALLOWED BY THE AUTHORITY HAVING JURISDICTION, CONFORMING TO ASTM F 876; ASTM F 877; CSA B137.5.
3. BELOW GROUND: (INSTALLED IN CONCRETE OR UNDER CONCRETE) TYPE "K" SOFT DRAWN COPPER TUBING, CONFORMING TO ASTM B 88-72, SPIRALLY WRAP PIPING BELOW GRADE OR FLOORS WITH 3 LAYERS OF 20 MIL POLYETHYLENE TAPE WITH 1/2 OVERLAP. INSTALL NO PIPING JOINTS BELOW FLOOR.
4. ALL COPPER TUBING SHALL UTILIZE SWEAT FITTINGS SOLDERED WITH ASTM B 32, ALLOY SN95, SN94, OR E, LEAD FREE SOLDER.

SOIL, WASTE, VENT AND STORM PIPING:
1. ALL SOIL AND WASTE PIPING SHALL SLOPE MINIMUM OF 1/4" PER FOOT. PIPING 4" AND LARGER MAY SLOPE 1/8" PER FOOT SLOPE IF SITE CONDITIONS WONT ALLOW 1/4" PER FOOT SLOPE.
2. CHANGES IN DIRECTION, WHERE SPACE PERMITS, SHALL BE MADE WITH LONG SWEEP BENDS, Y-FITTINGS AND 1/8 OR 1/16 BENDS OR COMBINATION AND 1/8 BENDS.
3. SANITARY TEE BRANCHES AND 1/4 BENDS MAY BE USED FOR CONNECTION OF BRANCH LINES TO FIXTURES AND FROM STACKS TO HORIZONTAL DRAINAGE.
4. MATERIALS:
   4.1. CAST IRON: NO-HUB CAST IRON, CISPI DESIGNATION 301-12 FOR ALL SOIL, WASTE AND VENT PIPING WITH STANDARD WEIGHT FITTINGS. USE STAINLESS STEEL NO-HUB CAST IRON COUPLINGS THROUGHOUT THE PROJECT. INSTALL PIPE AND FITTINGS PER CISPI DESIGNATION 301-12. RESTRAIN PIPE AND FITTINGS USING ENGINEERED (HOLDRITE OR EQUAL) ASSEMBLIES INSTALLED PER MANUFACTURERS INSTRUCTIONS.
   4.2. GALVANIZED IRON: SCHEDULE 40 STANDARD WEIGHT CONFORMING TO ASTM A72-68. USE WROUGHT IRON SCREWED FITTINGS TO MATCH PIPE. MAKE ALL SCREWED JOINTS WITH TEFLON TAPE. (NO GALVANIZED IRON OR STEEL PIPE SHALL BE USED UNDERGROUND.)
   4.3. ABS: ABS PIPING CONFORMING TO ASTM D2661-73 FOR ALL SOIL, WASTE AND VENT PIPING WITH MATCHING FITTINGS. ABS ABOVE AND BELOW GRADE FOR COMBUSTIBLE CONSTRUCTION OR ALLOWED BY LOCAL JURISDICTION. ABS FOR NON-COMBUSTIBLE CONSTRUCTION BELOW GRADE ONLY.
   4.4. PVC: SCHEDULE 40 SOLID WALL PIPE AND DWV FITTING SYSTEM. PIPE AND FITTINGS SHALL BE MANUFACTURED FROM PVC COMPOUND WITH A CELL CLASS OF 12454 PER ASTM D 1784 AND CONFORM WITH NATIONAL SANITATION FOUNDATION (NSF) STANDARD 14. PIPE AND FITTINGS SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1785 AND ASTM D 2665. ALL PIPE AND FITTINGS TO BE PRODUCED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS. SOLVENT CEMENTS SHALL CONFORM TO ASTM D 2564. PRIMER SHALL CONFORM TO ASTM F 656. THE SYSTEM IS INTENDED FOR NON-PRESSURE DRAINAGE APPLICATIONS WHERE THE TEMPERATURE WILL NOT EXCEED 140° F.

VALVES:
1. SIZE OF SHUT-OFF VALVES, CONTROL VALVES, BALANCING COCKS, UNIONS ETC., SHALL BE FULL LINE SIZE.
2. PROVIDE SHUT-OFF VALVES IN CEILING SPACE FOR COLD AND HOT WATER PIPING CONNECTIONS TO ALL PLUMBING FIXTURES, HOSE BIBBS AND TRAP PRIMERS. PROVIDE STAINLESS STEEL CEILING/WALL ACCESS PANELS AS NECESSARY, IN ACCORDANCE WITH ARCHITECT'S REQUIREMENTS.

GAS PIPING:
1. THE PLUMBING CONTRACTOR SHALL SEE THAT THE PROPER GAS METER AND REGULATOR ARE INSTALLED BY THE UTILITY CO., AND PAY FOR ANY FEES CHARGED FOR THE INSTALLATION OF THE METER AND SERVICE LINES. GAS LINES SHALL EXTEND FROM THE METER TO ALL EQUIPMENT REQUIRING GAS.
2. MATERIALS:
   2.1. GAS PIPING ABOVE GROUND:
      A. SCREWED STANDARD WEIGHT SCHEDULE 40 BLACK STEEL CONFORMING TO ASTM A53 SPECIFICATIONS FOR GAS PIPING.
      B. 4" DIAMETER AND LARGER INTERIOR GAS PIPING SHALL BE WELDED.
   2.2. GAS PIPING INSTALLED BELOW GROUND:
      A. SCHEDULE 40 BLACK STEEL SHALL BE PROVIDED WITH FACTORY WRAPPED PROTECTIVE COATING WITH FITTINGS TRIPLE SPIRALLY WRAPPED WITH 20 MIL POLYETHYLENE TAPE WITH 1/2 OVERLAP. PROVIDE CATHODIC PROTECTION CONSISTING OF ONE 17 POUND MAGNESIUM ANODE PER 100 SQUARE FEET OF GROUND EXPOSED PIPE SURFACE.
      B. POLYETHYLENE PLASTIC PIPE; TUBING AND FITTINGS USED TO SUPPLY FUEL GAS SHALL CONFORM TO ASTM D 2513. SUCH PIPE SHALL BE MARKED "GAS" AND "ASTM D 2513."
3. GAS PIPE SHALL BE PROVIDED WITH SUITABLE DRIP LEGS ON ALL MAINS AND RISERS AT EQUIPMENT CONNECTIONS. ALL EQUIPMENT CONNECTIONS SHALL BE PROVIDED WITH AN AGA APPROVED SHUTOFF VALVE.
4. PROVIDE SLEEVES AT ALL PIPING PENETRATING MASONRY WALLS AND PACKED WATERTIGHT WITH APPROVED PACKING.
5. GAS PRESSURE REGULATORS. A LINE PRESSURE REGULATOR SHALL BE INSTALLED WHERE THE APPLIANCE IS DESIGNED TO OPERATE AT A LOWER PRESSURE THAN THE SUPPLY PRESSURE. LINE GAS PRESSURE REGULATORS SHALL BE LISTED AS COMPLYING WITH ANSI Z21.80. ACCESS SHALL BE PROVIDED TO PRESSURE REGULATORS. PRESSURE REGULATORS SHALL BE PROTECTED FROM PHYSICAL DAMAGE. REGULATORS INSTALLED ON THE EXTERIOR OF THE BUILDING SHALL BE APPROVED FOR OUTDOOR INSTALLATION.
6. MEDIUM PRESSURE (MP) REGULATORS SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF THE LOCAL ADOPTED CODES.
7. VENTING OF REGULATORS. PRESSURE REGULATORS THAT REQUIRE A VENT SHALL BE VENTED DIRECTLY TO THE OUTDOORS. THE VENT SHALL BE DESIGNED TO PREVENT THE ENTRY OF INSECTS, WATER AND FOREIGN OBJECTS.
8. VENT PIPING. VENT PIPING FOR RELIEF VENTS AND BREATHER VENTS SHALL BE CONSTRUCTED OF MATERIALS ALLOWED FOR GAS PIPING AND INSTALLED IN ACCORDANCE WITH ALL LOCAL ADOPTED CODES. VENT PIPING SHALL BE NOT SMALLER THAN THE VENT CONNECTION ON THE PRESSURE REGULATING DEVICE.

COMPRESSED AIR PIPING
1. MATERIALS: COMPRESSED-AIR PIPING BETWEEN COMPRESSORS AND RECEIVERS, AND FOR DISTRIBUTION SHALL BE SCHEDULE 40 BLACK STEEL PIPE, COPPER TUBE, OR GALVANIZED STEEL PIPE. PVC OR CPVC IS NOT PERMITTED.
2. IDENTIFICATION: COMPRESSED-AIR PIPING SHALL BE PROVIDED WITH MARKINGS INCLUDING PIPING CONTENT'S NAME AND DIRECTION OF FLOW ARROW. MARKING SHALL BE PROVIDED AT EACH VALVE, AT WALL, FLOOR, OR CEILING PENETRATIONS, AT EACH CHANGE IN DIRECTION, AND AT A MINIMUM OF EVERY 20 FEET OR FRACTION THEREOF DURING THE PIPING RUN.
3. INSTALLATION:
   A. INSTALL AIR AND DRAIN PIPING WITH ONE PERCENT SLOPE DOWNWARD IN DIRECTION OF AIRFLOW.
   B. INSTALL ECCENTRIC REDUCERS WHERE PIPE IS REDUCED IN SIZE IN DIRECTION OF AIRFLOW, WITH BOTTOMS OF BOTH PIPES AND REDUCER FLUSH.
   C. CONNECT BRANCH AIR PIPING TO MAINS FROM TOP OF MAIN. PROVIDE DRAIN LEG AND DRAIN TRAP AT END OF EACH MAIN, BRANCH, AND LOW POINT IN PIPING.
4. SUPPORT: PIPING SHALL BE SUPPORTED IN SUCH A MANNER AS TO MAINTAIN ITS ALIGNMENT, AND PREVENT SAGGING. HANGERS AND ANCHORS SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT THE WEIGHT OF THE PIPE AND ITS CONTENTS. PIPING SHALL BE ISOLATED FROM INCOMPATIBLE MATERIALS. HANGER ROD SIZES FOR PIPE SIZES 1/2" THROUGH 4" SHALL BE NO SMALLER THAN 3/8". DO NOT EXCEED THE FOLLOWING SPACING BETWEEN PIPE HANGERS:
   STEEL PIPE- 12'-0" HORIZONTAL, 15'-0" VERTICAL
   COPPER TUBE- 1-1/4" AND SMALLER- 72" HORIZONTAL, 10'-0" VERTICAL
   1-1/2" AND LARGER- 10'-0" HORIZONTAL, 10'-0" VERTICAL
5. PIPING SYSTEM TESTS: TEST NEW AND MODIFIED PARTS OF EXISTING PIPING. CAP AND FILL COMPRESSED-AIR PIPING WITH OIL-FREE, DRY AIR, OR GASEOUS NITROGEN TO PRESSURE OF 50 PSIG ABOVE SYSTEM OPERATING PRESSURE, BUT NOT LESS THAN 150 PSIG. ISOLATE TEST SOURCE AND LET STAND FOR 4 HOURS TO EQUALIZE TEMPERATURE. REFILL SYSTEM, IF REQUIRED, TO TEST PRESSURE AND HOLD PRESSURE FOR 2 HOURS WITH NO DROP IN PRESSURE. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST SYSTEM UNTIL SATISFACTORY RESULTS ARE OBTAINED

PIPE HANGERS:
1. PIPE HANGERS SHALL BE MICHIGAN #400 FOR STEEL PIPING, #402 FOR GAS AND COPPER PIPING. SUPPORT PIPING 1-1/4" AND SMALLER 6'-0" O/C; AND PIPING 1-1/2" AND LARGER 10'-0" O/C. WASTE PIPING SHALL BE SUPPORTED AT 4'-0" O/C. PROVIDE 3/8" DIA. THREADED ROD PROPERLY BRACED FOR SEISMIC RESTRAINT ZONE 2.

PIPE INSULATION:
1. ALL DOMESTIC COLD WATER PIPING SHALL HAVE 1/2 INCH THICK FIBERGLASS INSULATION WHERE DAMAGE TO ANY BUILDING COMPONENTS WILL OCCUR AS A RESULT OF CONDENSATION FORMING ON COLD WATER PIPING.
2. ALL DOMESTIC HOT WATER AND HOT WATER RETURN PIPING SHALL HAVE 1 INCH THICK FIBERGLASS INSULATION.
3. PIPE INSULATION SHALL HAVE AN ASJ JACKET AND A THERMAL CONDUCTIVITY (K-FACTOR) NOT EXCEEDING 0.27 AT 75 DEGREES MEAN TEMPERATURE.
4. THE MAXIMUM FIRE HAZARD CLASSIFICATION OF THE INSULATION SYSTEM SHALL NOT HAVE MORE THAN A FLAME SPREAD OF 25, A FUEL CONTRIBUTED RATING OF 50, AND A SMOKE DEVELOPED RATING OF 50 WHEN TESTED IN ACCORDANCE WITH U.L. REQUIREMENTS. PIPE COVERING SHALL BEAR THE U.L. LABEL.
5. INSULATE ALL FITTINGS, VALVE BODIES ETC. WITH SINGLE OR MULTIPLE LAYERS OF INSULATION WITH PREFABRICATED FITTINGS WITH P.V.C. JACKETS.
6. SUBMIT SHOP DRAWINGS FOR ALL INSULATION MATERIALS.

CLEAN OUTS: (ZURN, JOSAM, SMITH)
1. CLEAN OUTS SHALL BE THE SAME SIZE AS THE LARGEST DOWNSTREAM PIPE IT IS SERVING. NO PLASTIC CLEAN OUTS WILL BE ACCEPTED. PLUGS SHALL BE BRONZE.

PIPE EXPANSION:
1. ALL PIPE CONNECTIONS SHALL BE INSTALLED TO ALLOW FOR FREEDOM OF MOVEMENT OF THE PIPING DURING EXPANSION AND CONTRACTION.
2. EXPANSION LOOPS AND EXPANSION JOINTS WITH PROPER ANCHORS AND GUIDES SHALL BE PROVIDED AS REQUIRED. ANCHORS AND JOINTS SHALL BE SUBJECT TO THE REVIEW OF THE ARCHITECT.
3. ALL SUPPORTS SHALL BE INSTALLED TO PERMIT THE MATERIALS TO CONTRACT AND EXPAND FREELY WITHOUT PUTTING A STRAIN OR STRESS ON ANY PART OF THE SYSTEM. PROVIDE ANCHORS AS REQUIRED.

UNIONS
1. PROVIDE A UNION BETWEEN CONNECTIONS TO EACH FIXTURE, DEVICE OR PIECE OF EQUIPMENT FOR DISCONNECTING OF PIPING.
2. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.

PIPE INSTALLATION
1. INSTALL PIPING TO BEST SUIT FIELD CONDITIONS, COORDINATE LAYOUT OF PIPING WITH DUCT WORK AND OFFSET PIPING AS REQUIRED TO CLEAR NEW WORK.
2. ALL VENTS THROUGH ROOF SHALL BE MINIMUM 10'-0" REMOVED FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.
3. CONTRACTOR SHALL ROUGH-IN ALL WASTE AND SUPPLY PIPING TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.
4. A WATER-HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK-CLOSING VALVES ARE UTILIZED. INCLUDES TOILET FLUSH VALVE GROUPS AND CONNECTIONS TO ALL SOLENOID ACTIVATED VALVES. WATER-HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SHALL CONFORM TO ASSE 1010.
5. PROVIDE MEANS OF PREVENTING DISSIMILAR METAL CONTACT BETWEEN ALL PIPING MATERIALS FROM ANY OTHER METAL OR STRUCTURAL MEMBER TO PREVENT GALVANIC ACTION BETWEEN THE TWO METALS.
6. WHEN WATER PIPE AND SEWER ARE LAID PARALLEL TO EACH OTHER, ONE OF THE FOLLOWING PROCEDURES MUST BE FOLLOWED:
   A. THE HORIZONTAL DISTANCE BETWEEN THE WATER PIPE AND SEWER SHALL NOT BE LESS THAN SIX (6) FEET.
   B. EACH LINE SHALL BE LAID IN A SEPARATE TRENCH, OR IN BETWEEN FILLED WITH COMPACT FILL.
   C. THE WATER SERVICE PIPE MAY BE PLACED IN THE TRENCH WITH THE BUILDING DRAIN AND/OR BUILDING SEWER, PROVIDED THE BOTTOM OF THE WATER SERVICE PIPE, AT ALL POINTS SHALL BE AT LEAST TWELVE (12) INCHES ABOVE THE TOP OF THE SEWER LINE, AND SHALL BE PLACED ON A SOLID SHELF EXCAVATED AT ONE SIDE OF THE COMMON TRENCH.
   D. WATER SERVICE AND SEWER SHALL BE CONSTRUCTED OF MATERIALS APPROVED FOR USE WITHIN A BUILDING AND PRESSURE TESTED TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING

ACCESSIBILITY
1. THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING DEVICES, OR SPECIALITIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL, OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING.

TESTING
1. FILL DOMESTIC WATER SYSTEM WITH WATER AND PRESSURIZE TO 125 PSI AND MAINTAIN FOR (4) FOUR HOURS WITH NO PRESSURE DROP.
2. FILL WASTE, SOIL, VENT AND STORM DRAINAGE SYSTEMS WITH WATER TO HIGHEST POINT OF THE SYSTEM. HOLD PRESSURE FOR (4) HOURS WITH NO DROP IN WATER LEVEL.
3. IF THE SYSTEM IS TESTED IN SECTIONS, EACH SECTION SHALL BE FILLED WITH WATER BUT NO SECTION SHALL BE TESTED WITH LESS THAN A TEN FOOT HEAD OF WATER.
4. GAS TESTING:
   A. AIR PRESSURE TEST SYSTEM TO 75 PSI AND MAINTAIN FOR A PERIOD OF (8) HOURS WITH NO PRESSURE DROP.
   B. PURGE LINE WITH NITROGEN AT JUNCTION WITH MAIN LINE AT GAS METER TO REMOVE ALL AIR. CLEAR COMPLETE LINE BY ATTACHING A TEST PILOT FIXTURE AT CAPPED STUB-IN LINE AT THE BUILDING LOCATION, AND LET GAS FLOW UNTIL TEST PILOT IGNITES. CAUTION: FAILURE TO PURGE SYSTEM MAY RESULT IN EXPLOSION WITHIN LINE WHEN AIR-TO-GAS IS AT CORRECT MIXTURE.
5. TEST AND OBTAIN APPROVAL ON ALL UNDERGROUND PIPING BEFORE COVERING WORK. PROVIDE WRITTEN TESTING REPORT TO ARCHITECT.

CLEANING
1. AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL ACCEPTANCE, ALL PARTS OF THE WORK INSTALLED UNDER THIS SPECIFICATION SHALL BE THOROUGHLY CLEANED. ALL EQUIPMENT, FIXTURES, PIPE, VALVES AND FITTINGS SHALL BE CLEANED OF GREASE, METAL CUTTINGS AND SLUDGE WHICH MAY HAVE ACCUMULATED BY OPERATION OF THE SYSTEM FOR TESTING HEREIN BEFORE SPECIFIED OR FROM OTHER CAUSES.

STERILIZATION
1. STERILIZE THE ENTIRE WATER DISTRIBUTION SYSTEM THOROUGHLY WITH A SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF AVAILABLE CHLORINE. FOR CHLORINATING MATERIALS USE SODIUM HYPOCHLORITE SOLUTION CONFORMING TO FEDERAL SPEC. 0-B-441, GRADE D, AND INTRODUCE INTO THE SYSTEM BY USE OF A COCK AT A SLOW, EVEN, CONTINUOUS RATE. ALLOW THE STERILIZING SOLUTION TO REMAIN IN THE SYSTEM FOR A PERIOD OF 24 HOURS, DURING WHICH TIME ALL VALVES AND FAUCETS SHALL BE OPENED AND CLOSED SEVERAL TIMES. AFTER STERILIZATION, FLUSH THE SOLUTION FROM THE SYSTEM WITH CLEAN WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NO GREATER THAN 0.2 PARTS PER MILLION. PLATE COUNT SHALL INDICATE COUNT LESS THAN 100 BACTERIA PER CC.

GUARANTEE
1. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP FROM DEFECT OF MATERIAL AND WORKMANSHIP, AND SHALL REPLACE OR REPAIR, WITHOUT ADDITIONAL COST TO THE OWNER, ALL DEFECTIVE MATERIAL AND WORKMANSHIP FOR A PERIOD (1) YEAR AFTER COMPLETION AND ACCEPTANCE.

COORDINATION
1. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING WORK WITH OTHER TRADES AFFECTED BY EACH OTHERS WORK AND FOR CUTTING AND REFINISHING OF EXISTING WALLS, FLOORS, SOLID AND SUSPENDED CEILINGS ETC., WHERE REQUIRED BY WORK SHOWN AND NOTED HEREIN. INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL AND STRUCTURAL MEMBERS. ITEMS SUCH AS PIPE, FITTINGS, ETC., SHALL NOT BE INSTALLED IN CONFLICT WITH EQUIPMENT. COORDINATE ALL CUTTING AND PATCHING WITH THE GENERAL CONTRACTOR. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF HIS WORK. OBTAIN WRITTEN PERMISSION OF ARCHITECT BEFORE PROCEEDING WITH ANY CUTTING OR PATCHING OF STRUCTURAL SYSTEMS.

SUBSTITUTIONS
1. SUBSTITUTIONS OF MATERIALS OR PRODUCTS SHOWN HEREIN SHALL BE AT THE OWNER'S, ARCHITECT'S OR ENGINEER'S WRITTEN APPROVAL ONLY, WITH COPIES OF APPROVAL SENT TO ARCHITECT FOR PROJECT FILE. DEVIATION FROM THESE DRAWINGS WILL NOT BE ALLOWED. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL SUBSTITUTIONS AND ALL COSTS OF CHANGES INCURRED BY THEMSELVES AND OTHERS DUE TO THE SUBSTITUTIONS.

RECORD DRAWINGS
1. PROVIDE TWO (2) SETS OF "RECORD" DRAWINGS (AS-BUILTS) AND TWO (2) BOUND SETS OF ALL OPERATIONS MANUALS, DIAGRAMS, SERVICE CONTRACTS, GUARANTEES, ETC., ONE FOR THE OWNER AND ONE FOR BUILDING OPERATIONS DEPARTMENT. OBTAIN A COMPLETE SET OF RECORD DRAWINGS OF EXISTING CONSTRUCTION FROM THE OWNERS FOR INFORMATION ON EXISTING CONDITIONS. INCORPORATE ANY EXISTING CONDITIONS ON NEW RECORD DRAWINGS REQUIRED TO SHOW THE "INSTALLED" INSTALLATION.

ORDER OF PRECEDENCE OF DOCUMENTS
1. SHOULD A CONFLICT ARISE BETWEEN CONSTRUCTION DOCUMENTS, THE ORDER OF PRECEDENCE SHALL BE:
   A. SPECIAL PROVISIONS
   B. GENERAL PROVISIONS
   C. SPECIFICATIONS
   D. DETAILS ON DRAWINGS
   E. PLAN DRAWINGS
2. THE ENGINEER OF RECORD SHALL BE NOTIFIED BEFORE A DECISION IS MADE.

2021 IECC COMPLIANCE NOTES

1. WATER-HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NON-CIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON SUPPLY AND DISCHARGE PIPING ASSOCIATED WITH EQUIPMENT.
2. PROVIDE MINIMUM 1" PIPE INSULATION HAVING A CONDUCTIVITY NOT GREATER THAN 0.27 BTU PER IN/HR FT2/ DEG °F ON AUTOMATIC-CIRCULATING HOT WATER SYSTEMS. PROVIDE MINIMUM 1/2" INSULATION HAVING A CONDUCTIVITY NOT GREATER THAN 0.27 BTU PER IN./HR FT2/ DEG °F FOR FIRST 8 FEET OF NON-CIRCULATING SYSTEMS WITHOUT INTEGRAL HEAT TRAPS.
3. SERVICE WATER-HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS TO ALLOW A SET POINT OF 110 DEG F FOR EQUIPMENT SERVING DWELLING UNITS AND 90 DEG F FOR EQUIPMENT SERVING OTHER OCCUPANCIES. THE OUTLET TEMPERATURE OF LAVATORIES IN PUBLIC FACILITY RESTROOMS SHALL NOT EXCEED 110 DEG F.
4. WATER-HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF THE CURRENT IECC CODE. THE EFFICIENCY SHALL BE VERIFIED THROUGH DATA FURNISHED BY THE MANUFACTURER OR THROUGH CERTIFICATION UNDER AN APPROVED CERTIFICATION PROGRAM.

CODE INFORMATION

1. 2021 IBC, 2021 UPC, 2021 IECC & CITY OF BEAUMONT AMENDMENTS. ALL SYSTEMS SHALL BE IN COMPLIANCE WITH THE ABOVE CODES AS ADOPTED BY THE CITY OF BEAUMONT.
2. EQUIPMENT AND APPLIANCES SHALL BE INSTALLED AS REQUIRED BY THE TERMS OF THEIR APPROVAL, IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THIS CODE. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION PER THE PLUMBING CODE.
3. MATERIALS EXPOSED WITHIN PLENUMS SHALL HAVE A FLAME SPREAD RATING INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE TO ASTM E84.
4. ALL MATERIAL INSTALLED WITHIN PLENUMS SHALL BE APPROVED FOR THAT LOCATION AND PLENUM RATED. TYPICAL PER IMC. 602.

P - PLUMBING SHEET LIST

SHEET NUMBER	SHEET NAME
P0.1	PLUMBING ABBREVIATIONS AND SYMBOLS
P1.1	PLUMBING PLAN - WASTE
P1.2	PLUMBING PLAN - WATER
P1.3	PLUMBING ROOF PLAN
P2.1	PLUMBING SCHEMATICS
P3.1	PLUMBING SCHEDULES AND CALCULATIONS

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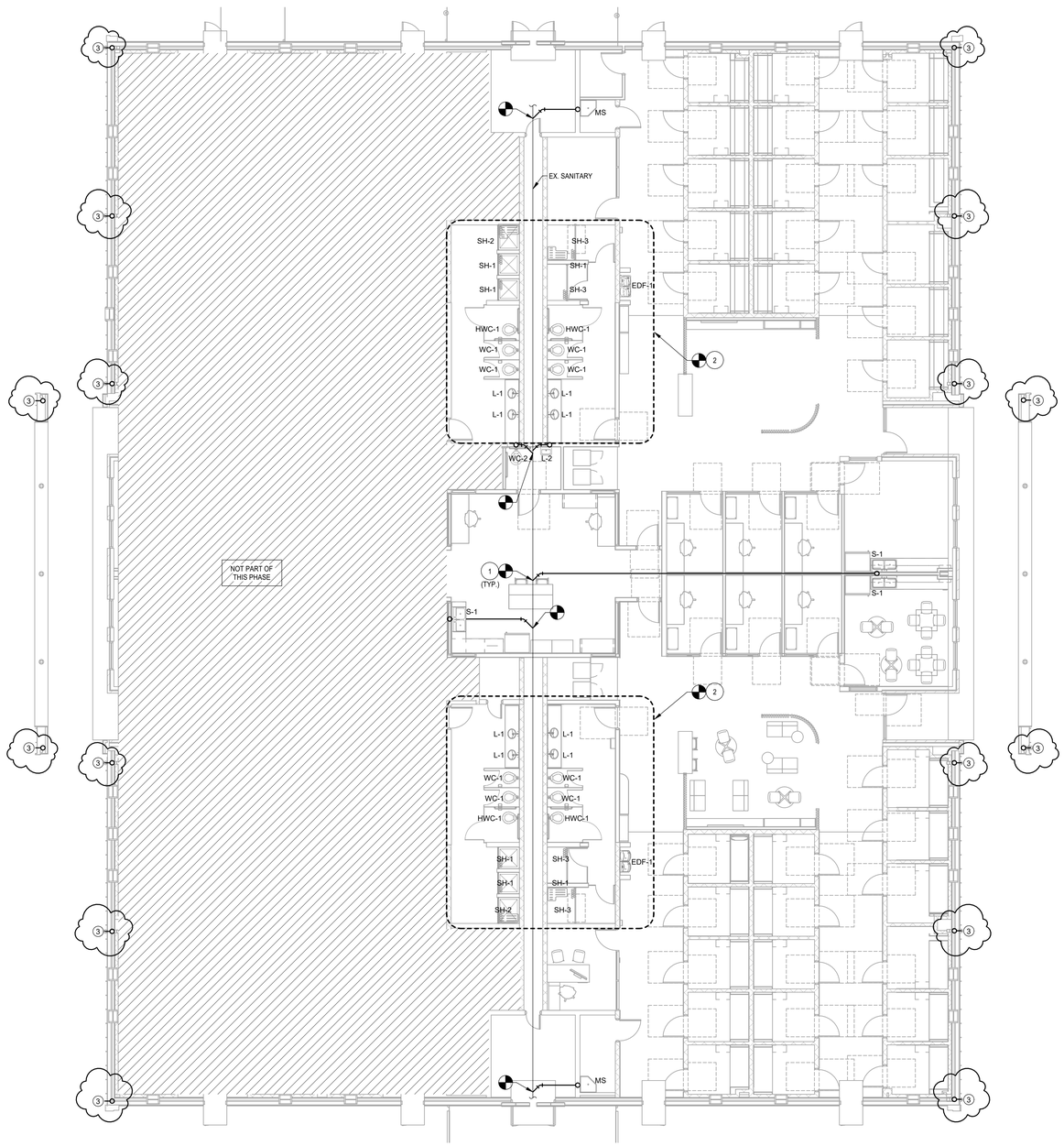
THESE DRAWIN



1 PLUMBING PLAN - WASTE
SCALE: 1/8" = 1'-0"

GENERAL NOTES (WASTE)

A. CONTRACTOR SHALL FIELD VERIFY SEWER UTILITY CONNECTION SIZE, LOCATION, SLOPE, DIRECTION OF FLOW AND INVERT PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS.
B. UNDERGROUND NON-METALLIC SANITARY DRAINAGE PIPING LARGER THAN 2 INCHES IN DIAMETER SHALL BE INSTALLED WITH INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR LOCATED ADJACENT TO THE PIPING. THE TRACER WIRE SHALL TERMINATE ABOVE THE GROUND AT EACH END OF THE NON-METALLIC PIPING. THE TRACER WIRE SIZE SHALL BE NOT LESS THAN 18 AWG AND THE INSULATION TYPE SHALL BE SUITABLE FOR DIRECT BURIAL.
C. ALL PIPE, PIPE FITTINGS, TRAPS, FIXTURES, MATERIAL AND DEVICES USED IN THIS PLUMBING SYSTEM SHALL BE LISTED OR LABELED BY A LISTING AGENCY. EACH LENGTH OF PIPE AND EACH PIPE FITTING, TRAPS, FIXTURE, MATERIAL AND DEVICES USED IN THIS PLUMBING SYSTEM SHALL HAVE CAST, STAMPED, OR INDELIBLY MARKED ON IT THE MAKERS MARK OR NAME, SUCH MARKING IS REQUIRED BY THE APPROVED STANDARD THAT APPLIES
D. ALL FLOOR CLEAN OUTS, FLOOR SINKS, AND FLOOR DRAINS TO SET FLUSH WITH FINISHED FLOOR
E. ALL FLOOR DRAINS AND FLOOR SINKS SHALL HAVE TRAP PRIMERS PROVIDED OR AS DIRECTED BY THE LOCAL JURISDICTION.
F. ALL INDIRECT WASTE PIPING INSTALLED WITH A LENGTH GREATER THAN 5'-0" SHALL HAVE A CLEANOUT PROVIDED. MAXIMUM LENGTH OF INDIRECT WASTE LINE SHALL BE 15'-0". FOR EACH REQUIRED EQUIPMENT INDIRECT WASTE PIPING CONNECTION, ROUTE INDIRECT WASTE PIPING FROM EQUIPMENT TO NEAREST FLOOR SINK. INDIRECT WASTE PIPING SHALL BE COPPER TYPE "DWV" WITH SOLDERED END DRAINAGE FITTINGS.
G. ALL INDIRECT WASTE PIPING THAT EXCEEDS 30 INCHES IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 54 INCHES IN TOTAL DEVELOPED LENGTH SHALL BE TRAPPED.
H. ALL INDIRECT WASTES, CONDENSATE AND RELIEF VALVE DRAINS SHALL HAVE CODE APPROVED AIR GAPS.
J. EACH VENT SHALL TERMINATE NOT LESS THAN 10 FT FROM OR 3 FT ABOVE ANY WINDOW, DOOR OPENING, AIR INTAKE OR VENT SHAFT, NOR LESS THAN 3 FT IN EVERY DIRECTION FROM ANY LOT LINE (ALLEY & STREET ACCEPTED).
K. PROVIDE CHROME PLATED P-TRAP, TAILPIECE AND ESCUTCHEON AT EACH HAND SINK/LAVATORY WITH A DIRECT WASTE CONNECTION.
L. ALL FLOOR SINKS SHALL HAVE HALF GRATE UNLESS NOTED OTHERWISE. FLOOR SINKS LOCATED BELOW EQUIPMENT SHALL BE A MINIMUM 50% EXPOSED AND SHALL BE INSTALLED FLUSH WITH FINISHED FLOOR OR AS DIRECTED BY LOCAL JURISDICTION.

GENERAL NOTES (WATER & GAS)

A. CONTRACTOR SHALL FIELD VERIFY EXISTING WATER UTILITY CONNECTION SIZE AND LOCATION PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS.
B. PLUMBING CONTRACTOR TO COORDINATE EXACT STREET WATER PRESSURE AND NOTIFY ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL PROVIDE A PRESSURE REDUCING VALVE (PRV) IF STREET WATER PRESSURE EXCEEDS 80 PSI. PRV SHALL BE INSTALLED ON BUILDING SIDE OF WATER METER AND SET TO 80 PSI.
C. CONTRACTOR TO FIELD VERIFY EXISTING DOMESTIC WATER SYSTEM IS PROVIDED WITH A REDUCED PRESSURE BACKFLOW PREVENTER (RPBP). IF NOT EXISTING, PROVIDE AN APPROVED RPBP ASSEMBLY SIZED TO MATCH BUILDING WATER METER. INSTALL NEW RPBP BETWEEN THE WATER METER AND THE BUILDING PER LOCAL JURISDICTION'S REQUIREMENTS.
D. UNDERGROUND NON-METALLIC WATER AND IRRIGATION SYSTEM PIPING LARGER THAN 2 INCHES IN DIAMETER SHALL BE INSTALLED WITH INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR LOCATED ADJACENT TO THE PIPING. THE TRACER WIRE SHALL TERMINATE ABOVE THE GROUND AT EACH END OF THE NON-METALLIC PIPING. THE TRACER WIRE SIZE SHALL BE NOT LESS THAN 18 AWG AND THE INSULATION TYPE SHALL BE SUITABLE FOR DIRECT BURIAL.
E. MAKE SHUTOFF VALVES ACCESSIBLE NEAR THE EQUIPMENT THEY SERVE.
F. ALL HAND SINKS/LAVATORIES SHALL BE PROVIDED WITH A THERMO-STATIC MIXING VALVE TO SUPPLY TEMPERED HW, MAX. 110 DEG. F.
G. PROVIDE CHROME PLATED STOP VALVES AT EACH REQUIRED EQUIPMENT WATER CONNECTION. PROVIDE AGA COMPLIANT BALL VALVE AT EACH REQUIRED EQUIPMENT GAS CONNECTION.
H. ALL POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS AND HOSE BIBBS SHALL BE PROTECTED FROM CROSS CONNECTION W/ APPROVED BACKFLOW PREVENTION DEVICES.
J. MINIMUM DEPTH OF GAS PIPING TO BE 24" BELOW GRADE. COORDINATE WITH LOCAL GAS COMPANY.
K. GAS PIPING SHALL NOT BE INSTALLED IN OR ON THE GROUND UNDER ANY BUILDING.
L. GAS PIPING SHALL NOT BE RUN IN HOLLOW CORE OF BLOCK.
M. PROVIDE SHUT-OFF COCK, UNION, AND 6" LONG DIRT LEG WITH CAP AT EACH GAS LINE DROP TO APPLIANCE.
N. DO NOT USE FLEXIBLE PIPE CONNECTIONS TO EQUIPMENT.
P. ALL GAS PIPING UNDER ASPHALT OR CONCRETE PAVING ADJOINING BUILDING MUST BE SLEEVED IN GAS TIGHT VENTED PIPE IN ACCORDANCE WITH LOCAL GAS CODE.
Q. ALL GAS PIPING MATERIALS, VALVES, FITTINGS, INSTALLATION AND TESTING SHALL COMPLY WITH LOCALLY ACCEPTED PLUMBING CODE AND GAS COMPANY REGULATIONS.
R. VERIFY ALL GAS BTU/H INPUTS WITH ACTUAL BTU/H INPUT OF APPLIANCE SUPPLIED.
S. A BUILDING SHUT OFF VALVE SHALL BE INSTALLED ON MAIN GAS LINE AT GAS METER.

KEYED NOTES

1 CONNECT NEW WASTE LINE TO EXISTING 4" WASTE LINE BELOW FLOOR AT THIS LOCATION. FIELD VERIFY EXACT SIZE, LOCATION, SLOPE, DIRECTION OF FLOW AND INVERT PRIOR TO INSTALLATION.
2 EXISTING PLUMBING FIXTURES TO BE REPLACED AT SAME LOCATION. RE-CONNECT PLUMBING LINES. FIELD VERIFY EXACT LOCATION.
3 TERMINATE ROOF DRAIN LINES THROUGH WALL WITH BRONZE DOWNSPOUT NOZZLE; JR SMITH 1770 OR EQUAL. SEE CIVIL DRAWINGS FOR CONTINUATION.

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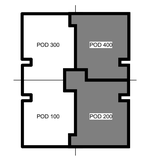
KEYPLAN:



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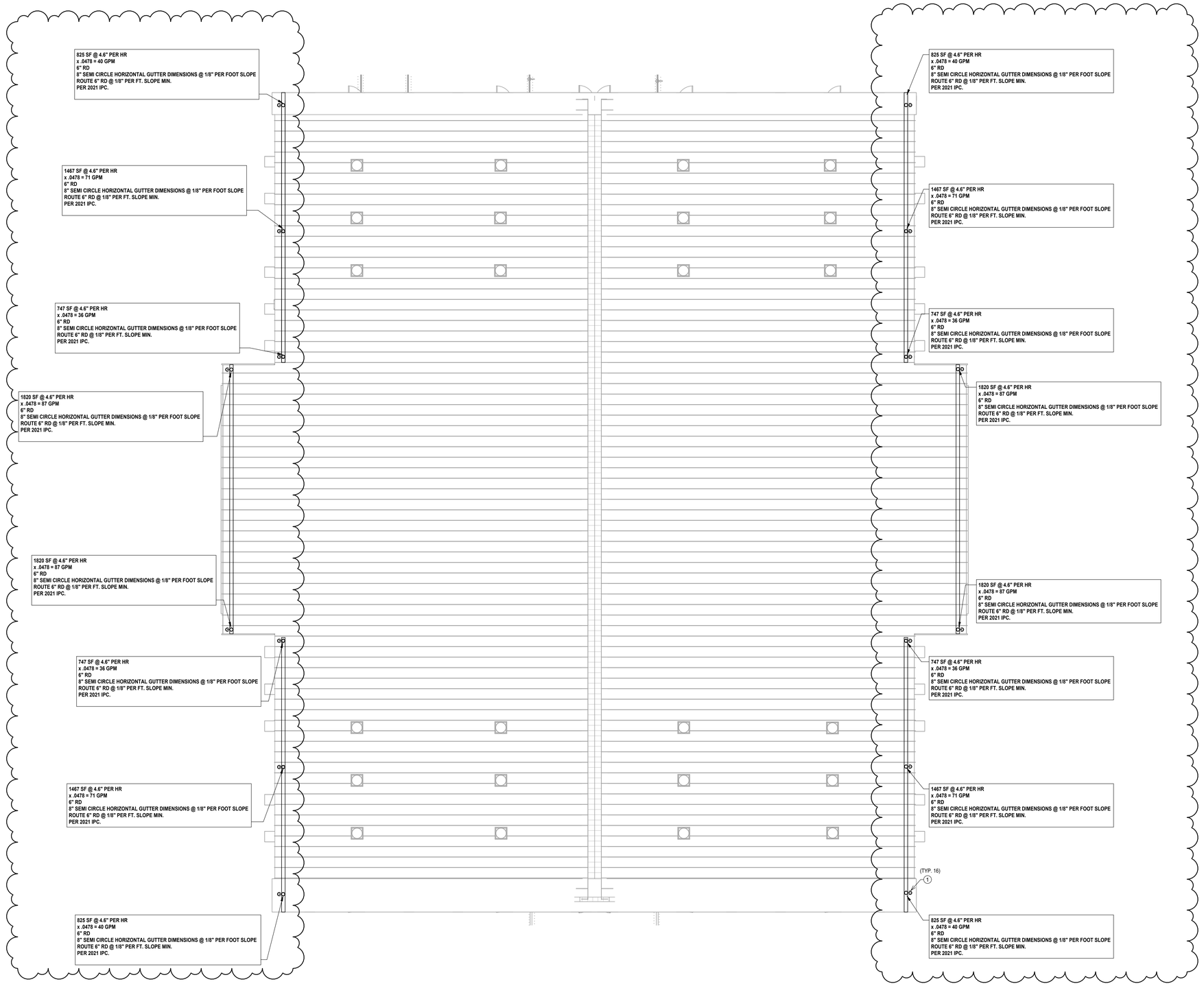
PLUMBING PLAN - WASTE

Scale: AS NOTED

P1.1



1 PLUMBING ROOF PLAN
1/8" = 1'-0"

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D. ALL FLOOR CLEAN OUTS, FLOOR SINKS, AND FLOOR DRAINS TO SET FLUSH WITH FINISHED FLOOR

E. ALL FLOOR DRAINS AND FLOOR SINKS SHALL HAVE TRAP PRIMERS PROVIDED OR AS DIRECTED BY THE LOCAL JURISDICTION.

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S. A BUILDING SHUT OFF VALVE SHALL BE INSTALLED ON MAIN GAS LINE AT GAS METER.

KEYED NOTES

1. ROUTE ROOF DRAIN LEADERS DOWN WITHIN WALL AT THIS LOCATION. SEE SHEET P1.1 FOR CONTINUATION.

2. TERMINATE ROOF DRAIN LINES THROUGH WALL WITH BRONZE DOWNSPOUT NOZZLE, JR SMITH 1770 OR EQUAL. SEE CIVIL DRAWINGS FOR CONTINUATION.

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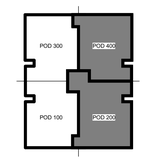

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PLUMBING ROOF PLAN

Scale: AS NOTED

P1.3