

**DEVELOPMENT SERVICES**

**PLAN REVIEW CONDITIONS**

March 19, 2020

SAPP DESIGN ARCHITECTS  
3750 S FREMONT  
SPRINGFIELD, MO 65804

Permit No: PRCOM20200445  
Project Title: MID-CONTINENT PUBLIC LIBRARY - COLBERN ROAD  
Project Address: 1000 NE COLBERN RD, LEES SUMMIT, MO 64064  
Parcel Number: 52500011300000000  
Location / Legal: RICE ACRES LOT 1  
Description:  
Type of Work: NEW COMMERCIAL  
Occupancy Group: ASSEMBLY FOR OUTDOOR ACTIVITIES INCL. STADIUMS, GRANDSTAND, AMUSEMENT PARKS  
Description: NEW LIBRARY

***Revisions Required***

***One or more departments have not approved the permit and the following is a list of requirements from the City of Lee's Summit that have not been satisfactorily addressed in the plans and specifications. Please address the comments as requested and provide three (3) copies of any revised sheets and/or additional information. Please contact the appropriate department regarding clarification of comments.***

Development Services Department (816) 969-1200

Fire Department (816) 969-1300

**Fire Plan Review**

**Reviewed By: Michael Weissenbach**

**Approved with Conditions**

1. 2018 IFC 907.1.1- Construction documents. Construction documents for fire alarm systems shall be submitted for review and approval prior to system installation. Construction documents shall include, but not be limited to, all of the following: 1. A floor plan which indicates the use of all rooms. 2. Locations of alarm-initiating and notification appliances. 3. Alarm control and trouble signaling equipment. 4. Annunciation. 5. Power connection. 6. Battery calculations. 7. Conductor type and sizes. 8. Voltage drop calculations. 9. Manufacturers, model numbers and listing information for equipment, devices and materials. 10. Details of ceiling height and construction. 11. The interface of fire safety control functions.

(Action Required)

Provide three sets of PE stamped shop drawings for the fire alarm system.

2. 2018 IFC 506.1- Where required. Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire-fighting purposes, the fire code official is authorized to require a key box to be installed in an approved location. The key box shall be of an approved type and shall contain keys to gain necessary access as required by the fire code official.

(Verified At Inspection)

Order a Knox box at [knoxbox.com](http://knoxbox.com) for the exterior of the building.

3. 2018 IFC 901.2- Construction documents. The fire code official shall have the authority to require construction documents and calculations for all fire protection systems and to require permits be issued for the installation, rehabilitation or

**DEVELOPMENT SERVICES**

modification of any fire protection system. Construction documents for fire protection systems shall be submitted for review and approval prior to system installation.

(Action Required)

Provide three sets of PE stamped shop drawings for the fire sprinkler system.

4. 2018 IFC 901.5- Installation acceptance testing. Fire detection and alarm systems, fire-extinguishing systems, fire hydrant systems, fire standpipe systems, fire pump systems, private fire service mains and all other fire protection systems and appurtenances thereto shall be subject to acceptance tests as contained in the installation standards and as approved by the fire code official. The fire code official shall be notified before any required acceptance testing. The fire code official shall be notified 48 hours before any required acceptance test.

(Informational Purposes)

Call (816)969-1300 to schedule testing.

**Building Plan Review**

**Reviewed By: Joe Frogge**

**Rejected**

1. The building permit for this project cannot be issued until the Development Services Department has received, approved, and processed the Final Development Plan.

Action required: Comment is for informational purposes.

3/19/20 - acknowledged in letter

3. 2018 IBC 1704.2 Special inspections. Where application is made for construction as described in this section, the owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more approved agencies to perform inspections during construction on the types of work listed under Section 1705. These inspections are in addition to the inspections identified in Lee's Summit Code of Ordinances Chapter 7. (see code section for exceptions)

Action required: Provide statement of special inspections / letter of responsibility from company contracted to perform special inspections.

**3/19/20 - Not found in re-submittal as noted in letter.**

4. Existing building to be demolished prior to start of this project.

Action required: Demolition permit will be required.

3/19/20 - acknowledged in letter

5. For the Health Department review contact Deb Sees with the Jackson County Public Works Department, Environmental Services Division, at (816) 847-7070. Health Department approval is required prior to receiving any type of building permit from the City of Lee's Summit.

Action required: Comment is for informational purposes.

3/19/20 - acknowledged in letter

6. For the Health Department inspection contact Deb Sees with the Jackson County Public Works Department, Environmental Health Division at (816) 847-7070. Health Department approval is required prior to receiving any type of Occupancy from the City of Lee's Summit.

Action required: Comment is for informational purposes.

3/19/20 - acknowledged in letter

**DEVELOPMENT SERVICES**

8. 2018 IBC 1010.1.2 Door swing. Egress doors shall be of the pivoted or side-hinged swinging type. Exceptions: (See code for exceptions.)

2018 IBC 1010.1.2.1 Direction of swing. Pivot or side-hinged swinging doors shall swing in the direction of egress travel where serving a room or area containing an occupant load of 50 or more persons or a Group H occupancy.

Actions required:

- Clarify use and occupant load of Staff Area 137. Sliding doors are only allowed with occupant load of 10 or less. Furniture conflicts with 1/150 loading. If sliding doors are actually to be used as "movable partitions" they would have to be labelled as such.

- Clarify use of center hinged pivoting doors. If they are only to be used as "movable partitions" they would have to be labelled as such.

**3/19/20 - provide updated door schedule to reflect changes**

11. 2017 NEC Article 110.26 (C) (2) Large Equipment. For equipment rated 1200 amperes or more and over 6 feet wide that contains overcurrent devices, switching devices, or control devices, there shall be one entrance to and egress from the required working space not less than 24" wide and 6'6" high at each end to the working space.

A single entrance to and egress from the required working space shall be permitted where either of the conditions in 110.26(C)(2)(a) or (C)(2)(b) is met.

(a) Unobstructed Egress. Where the location permits a continuous and unobstructed way of egress travel, a single entrance to the working space shall be permitted.

(b) Extra Working Space. Where the depth of the working space is twice that required by 110.26(A)(1), a single entrance shall be permitted. It shall be located such that the distance from the equipment to the nearest edge of the entrance is not less than the minimum clear distance specified in Table 110.26(A)(1) for equipment operating at that voltage and in that condition.

110.26 (C)(3) Personnel Doors. Where equipment rated 800 A or more that contains overcurrent devices, switching devices, or control devices is installed and there is a personnel door(s) intended for entrance to and egress from the working space less than 25 feet from the nearest edge of the working space, the door(s) shall open in the direction of egress and be equipped with panic hardware.

Action required: Doors serving Receiving Room #117 are to swing in direction of egress and be equipped with panic hardware.

**3/19/20 - provide new door schedule that reflects these changes.**

12. Irrigation system (as shown in FDP) is not reflected in MEP design.

Action required: Coordinate designs and resolve any conflicts.

**3/19/20 - P-series drawings must be coordinated with L600 series. i.e. Landscaping irrigation plans specify a connection to the domestic water system but the plumbing drawings do not.**

Licensed Contractors

Reviewed By: Joe Frogge

Approved

***The review conducted by the City of Lee's Summit Development Services Department shall not be construed as a structural review of the project.***

## **Plan Review Conditions Response**

Permit NO: PRCOM20200445

Mid-Continent Public Library – Colbern Road

March 26, 2020

The following is a written summary of responses to the Plan Review Discrepancy Report dated March 19, 2020. Where associated Specifications and/or Drawings are included, they will be referenced.

### **FIRE PLAN REVIEW**

1. Acknowledged; three sets of PE stamped shop drawings for the fire alarm system will be provided.
2. Acknowledged; a Knox box will be ordered and installed for inspection.
3. Acknowledged; three sets of PE stamped shop drawings for the fire sprinkler system will be provided.
4. Acknowledged; JE Dunn will call to schedule testing for all fire safety systems prior to owner turn-over.

### **BUILDING PLAN REVIEW**

1. Final Development Plan is currently being revised for approval.
3. Statement of special inspections/letter of responsibility from company contracted to perform special inspections is provided (please see attached letter from “Intertek PSI”).
4. Contractor (JE Dunn) will obtain a demolition permit for that scope of work.
5. The Health department has approved the plan with the addition of a small three compartment sink as shown on the attached MEP sheets P100, P200, and P300 and architectural sheets A100, A101, and A150.
6. Health Department inspections will be requested by the contractor (JE Dunn)
8. See attached updated sheet A400 clarifying scheduled item 137 as “Telescoping Sliding Glass Partition.” It is called out on the door schedule because it requires a locking cylinder that is to be provided by the door hardware provider. Locating it on this schedule will help ensure the cylinder is provided.
11. See attached updated sheet A400 showing revisions to doors and hardware corresponding with previously submitted plans.
12. Civil, Landscaping, and MEP plans have all been updated to show the irrigation tap, backflow preventer, and meter inside the building. Civil and Landscaping plans have been submitted with the FDP submittal. Attached are the updated L601, P101, and P200 reflecting this change.

### **END OF PLAN REVIEW COMMENTS**



Intertek-PSI  
1211 W. Cambridge Circle Drive  
Kansas City, Kansas 66103

Tel +1 913 310 1600  
Fax +1 913 310 1601  
[intertek.com/building](http://intertek.com/building)

March 26, 2020

Joe Frogge  
Plans Examiner  
City of Lee's Summit Codes Administration  
220 SE Green Street  
Lee's Summit, Missouri 64063

Email: [joe.frogge@cityofls.net](mailto:joe.frogge@cityofls.net)

Re: Special Inspection Letter of Intent  
Mid-Continent Public Library – Colbern Road Branch  
1000 NE Colbern Road  
Lee's Summit, Missouri 64086  
Permit Number: PRCOM 20200445

Dear Mr. Frogge:

Professional Service Industries, Inc. is being retained by Mid-Continent Public Library to provide the required Special Inspections on the referenced project with respect to the following items:

- Engineered Grading and/or Filling
- Shallow Foundation Subgrade Verification
- Placement of Reinforcing Steel
- Reinforced Concrete
- Bolts Installed in Concrete
- Post-Installed Adhesive Anchors
- High Strength Bolting
- Steel Frame Observations
- Structural Welding

If you have any questions concerning this information, please contact this office.

Respectfully submitted,  
Professional Service Industries, Inc.

Ryan Hankins, PE  
Department Manager



Email: Bobby Miller – [bobby.miller@jedunn.com](mailto:bobby.miller@jedunn.com)

## **Bobby Miller**

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**From:** Deb Sees <dsees@jacksongov.org>  
**Sent:** Monday, March 23, 2020 8:07 AM  
**To:** Bobby Miller  
**Subject:** [External] - Your Food Establishment Plan Review application has been approved  
FTG:0001229

Dear Bobby Miller,

Congratulations! Your New Food Establishment Plan Review application has been approved.

Prior to opening, you are required to call our office at (816) 847-7073 to schedule a pre-opening inspection with our health inspector. You cannot begin operating your business without prior approval from the health inspector. Failure to receive approval to open will be in violation of Jackson County Food Code, Chapter 40.

Thank you,

Jackson County Environmental Health



**TRUE**  
**ENGINEERING**  
MECHANICAL • ELECTRICAL • PLUMBING

## Supplemental Instructions #03

**Date:** March 26, 2020

**Project:** Mid-Continent Public Library – WP10 – Colbern Road

**To:** Brad McKenzie, AIA  
Sapp Design Architects  
1828 Walnut St, Suite 301  
Kansas City, MO 64108



**From:** Jacob Nelson, PE – MO# PE-2009018758

**Copy:** File

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This Supplemental Instruction is incorporated into the Contract Documents for the project referenced above.

### Drawings:

Sheet P100 – Underground Plumbing Plan – Area A:

1. Refer to detail 1/P100 – Underground Plumbing Plan – Area A:
  - a. Revise waste, vent, and cold water piping per attached sheet SI03-P100.
  - b. Revise keynote 22.64 per attached sheet SI03-P100.

Sheet P101 – Underground Plumbing Plan – Area B:

1. Refer to detail 1/P101 – Underground Plumbing Plan – Area B:
  - a. Add irrigation piping underground per attached sheet SI03-P101.
  - b. Add keynotes 22.76 and 22.77 per attached sheet SI03-P101.

Sheet P200 – Plumbing Details:

1. Refer to detail 1/P200 – Enlarged Plumbing Plan – Restrooms and Café:
  - a. Remove Supply Box SB1 in 102 Café per attached sheet SI03-P200.
  - b. Add Three Compartment Sink SK5 and Floor Drain FD2 in 102 Café per attached sheet SI03-P200.
  - c. Revise Hand Sink SK1 in 102 Café per attached sheet SI03-P200.
  - d. Revise Supply Box SB1 locations in 102 Café per attached sheet SI03-P200.
  - e. Revise hot and cold water and vent piping per attached sheet SI03-P200.
  - f. Add vent piping per attached sheet SI03-P200.
  - g. Revise keynotes 22.69, 22.70, 22.71, and 22.72 per attached sheet SI03-P200.
2. Refer to detail 3/P200 – Enlarged Plumbing Plan – Staff Area:
  - a. Add irrigation piping in 118 Sprinkler per attached sheet SI03-P200.
  - b. Shift natural gas service entrance and meter east as required for trash enclosure per attached sheet SI03-P200.
  - c. Add keynotes 22.78 and 22.79 per attached sheet SI03-P200.

Sheet P300 – Plumbing Schedules:

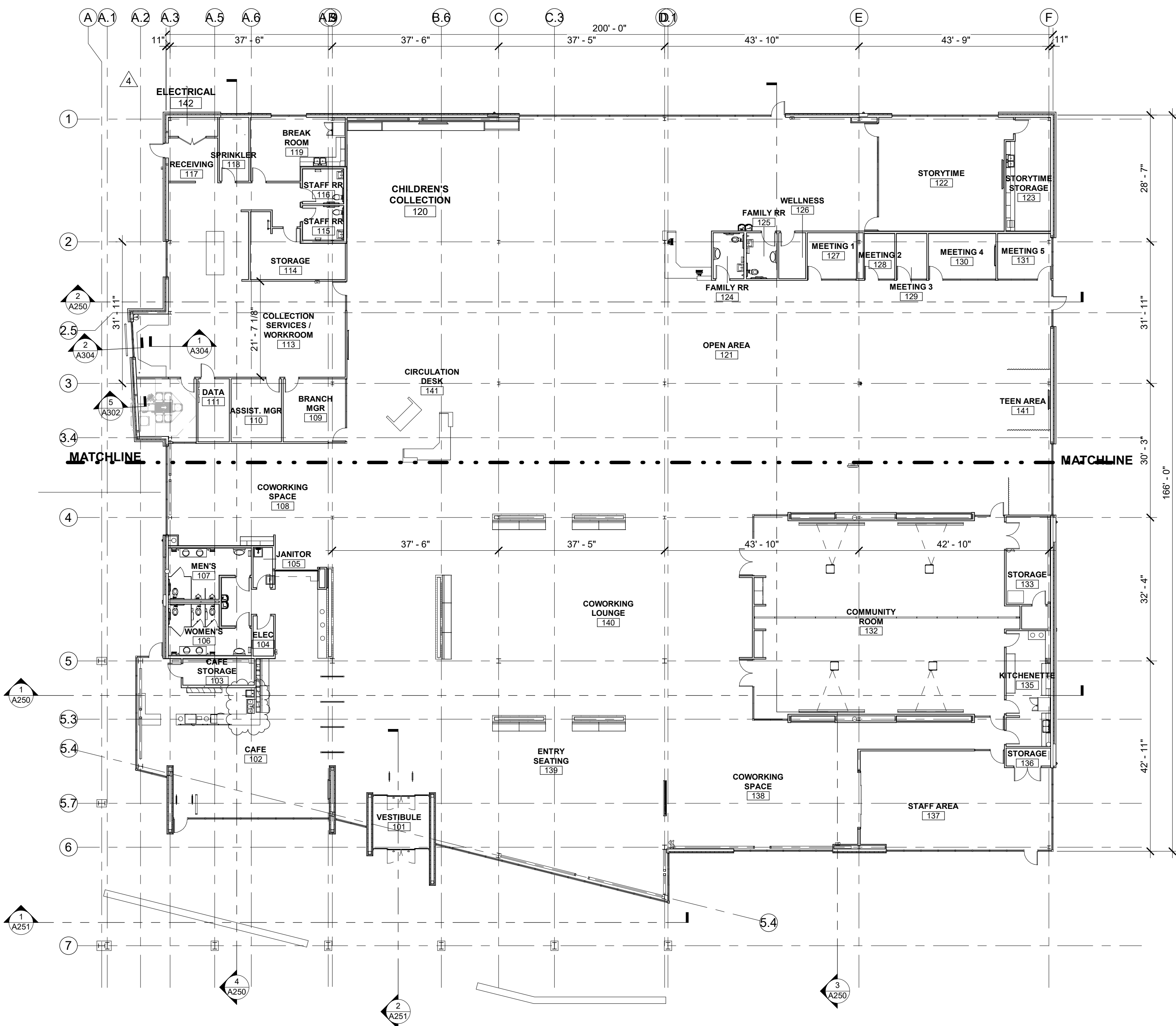
1. Refer to Plumbing Fixture Schedule:
  - a. Revise Plumbing Fixture SK1 per attached sheet SI03-P300.
  - b. Add Plumbing Fixture SK5 per attached sheet SI03-P300.

Sheet E102 – Site Photometric Plan:

1. Refer to detail 1/E102 – Site Photometric Plan:
  - a. Add fixture heights per attached sheet SI03-E102

Attachments: SI03-P100, SI03-P101, SI03-P200, SI03-P300, SI03-E102





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

## GENERAL NOTES

- ALL DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE FROM FACE OF STUD TO FACE OF STUD FOR INTERIOR PARTITIONS, FACE OF EXISTING STRUCTURE OR FINISH FACE OF CONCRETE OR BLOCK, OR TO STRUCTURAL LINE, EXCEPT AS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO FACE OF CMU. DIMENSIONS OF EXISTING STRUCTURE, ETC. ARE ± AND SHOULD BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF WORK AND ARCHITECT NOTIFIED OF ANY DISCREPANCIES.
- SEE GENERAL NOTES ON G100 FOR WORK PERTAINING TO EXISTING CONDITIONS, DIMENSIONS, ETC.

## KEYNOTES

# SAPP DESIGN ARCHITECTS

3750 S. Fremont Ave.  
Springfield, MO 65804 417.877.9600

Sapp Design Associates Architects, P.C.  
Missouri State Certificate of Authority #000607

# helix.

1629 Walnut  
Kansas City, MO 64108 816.300.0300

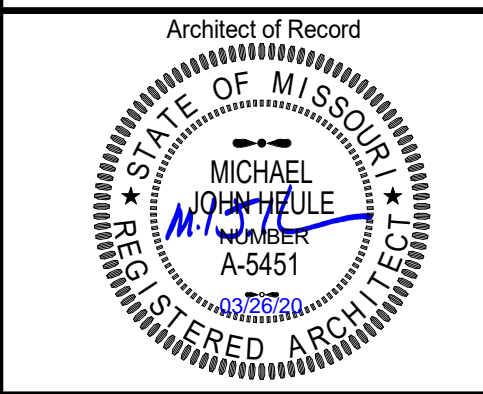
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Missouri State Certificate of Authority #000720

## SPECIAL NOTICES

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The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

## Mid-Centiment Public Library NEW BRANCH LIBRARY Colbern Road Branch 1000 NE COLBERN ROAD LEE'S SUMMIT, MISSOURI 64086 JACKSON COUNTY

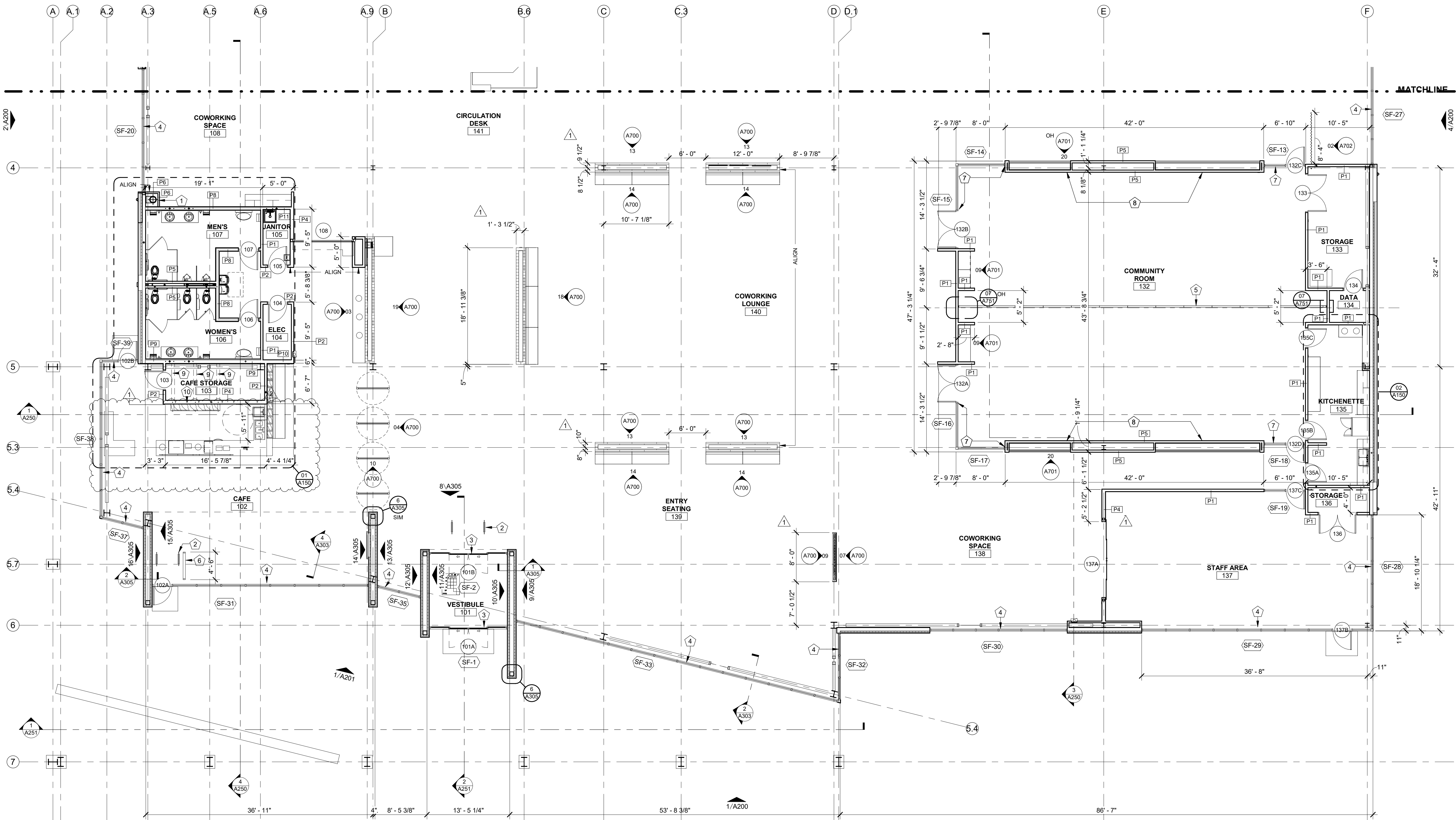


Michael John Heule, Architect MO A-5451

Revision No.	Description	Date
4	ASI 02	03/13/20
5	ASI 03	Date 5

Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.  
**A100**  
OVERALL FLOOR PLAN



**1 FLOOR PLAN - AREA A**  
1/8" = 1'-0"

**KEYNOTES**

- |   |   |    |   |
|---|---|----|---|
| 1 | HOLD FURRING TIGHT TO DRAIN AND/OR COLUMN, TYP  | 8  | INSTALL 22'-0" WIDE CONTINUOUS RECESSED AS DISPLAY TRACK REVEAL A1025 MOUNTED 9'-0" AFF AND CENTERED ON PARTITION. PROVIDE (12) 48" LINEAL P-END CABLE C2004 STAINLESS STEEL AND (12) SELF-GRIPPING HOOKS H3007AA   |
| 2 | RFID SECURITY GATES PROVIDED BY OWNER   | 9  | PROVIDE BRACING FROM PARTIAL HEIGHT PARTITION BACK TO FULL HEIGHT PARTITION WHERE VERTICAL SHELVING BRACKETS ARE MOUNTED. ENSURE HORIZONTAL BRACING IS BELOW PARTIAL HEIGHT PARTITION. COORDINATE BRACING WITH MECHANICAL AND PLUMBING IN CEILING AREA OF CAFE STORAGE 103 AS REQUIRED. PAINT HORIZONTAL BRACING PT1 ON ALL EXPOSED SURFACES. |
| 3 | AUTOMATIC SLIDING DOOR SYSTEM, REFER TO DOOR & WINDOW SCHEDULE. SEE SPECIFICATIONS FOR MORE INFORMATION   | 10 | PROVIDE CONTINUOUS FULL HEIGHT 2X6 BLOCKING WITHIN PARTITION FOR WALL HUNG SHELVING DISPLAY   |
| 4 | INSTALL MOTORIZED MECHOSHADE EXPOSED POCKET IN SATIN ANODIZED ALUM FINISH WITH THERMOVEIL BASKET WEAVE 1300 SERIES SHADE (5% OPEN) COLOR: SILVER BIRCH THE FULL WIDTH AND HEIGHT OF THE STOREFRONT OPENING, PER SPECIFICATIONS. ENSURE SEAMS OF SHADE PANELS ARE CENTERED ON THE MULLIONS OF THE STOREFRONT                                       |    |   |
| 5 | MODERNFOLD ACOUSTI-SEAL ENCORE 56 PAIRED PANEL OPERABLE WALL SYSTEM. (2) PAIRED PANELS ON EACH END OF WALL TO BE CLAD IN MODERNFOLD FABRIC LUMA-SMOKE 111873-589 FULL HEIGHT. THE (3) PAIRED PANELS CENTERED IN WALL SYSTEM TO BE CLAD IN FULL HEIGHT MARKER BOARD. REF SPECIFICATION FOR PERFORMANCE REQUIREMENTS AND WARRANTY/MAINTENANCE PLAN. |    |   |
| 6 | 4'-0" HIGH GLASS RAILING, REF SPECIFICATION FOR SYSTEM HARDWARE   |    |   |
| 7 | INSTALL MANUAL MECHOSHADE RECESSED POCKET WITH WHITE FASCIA AND MANUAL THERMOVEIL BASKET WEAVE 1300 SERIES SHADE (5% OPEN) COLOR: SILVER BIRCH THE FULL WIDTH AND HEIGHT OF THE STOREFRONT OPENING, PER SPECIFICATIONS. ENSURE SEAMS OF SHADE PANELS ARE CENTERED ON THE MULLIONS OF THE STOREFRONT   |    |   |

**SAPP  
DESIGN  
ARCHITECTS**

3750 S. Fremont Ave.  
Springfield, MO 65804 417.877.9600

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**helix.**

1629 Walnut  
Kansas City, MO 64108 816.300.0300

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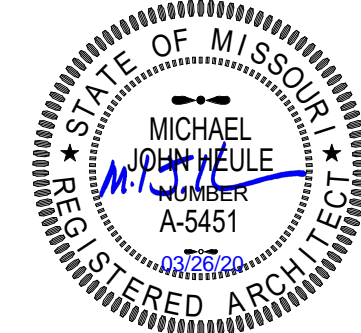
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The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature whenever & wherever used, and the owner of the seal shall authorize this seal and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

Mid-Continent Public Library  
NEW BRANCH LIBRARY  
**Colbern Road Branch**  
1000 NE COLBERN ROAD  
LEE'S SUMMIT, MISSOURI 64086  
JACKSON COUNTY

Architect of Record



Michael John Heule, Architect MO A-5451

**AREA A**

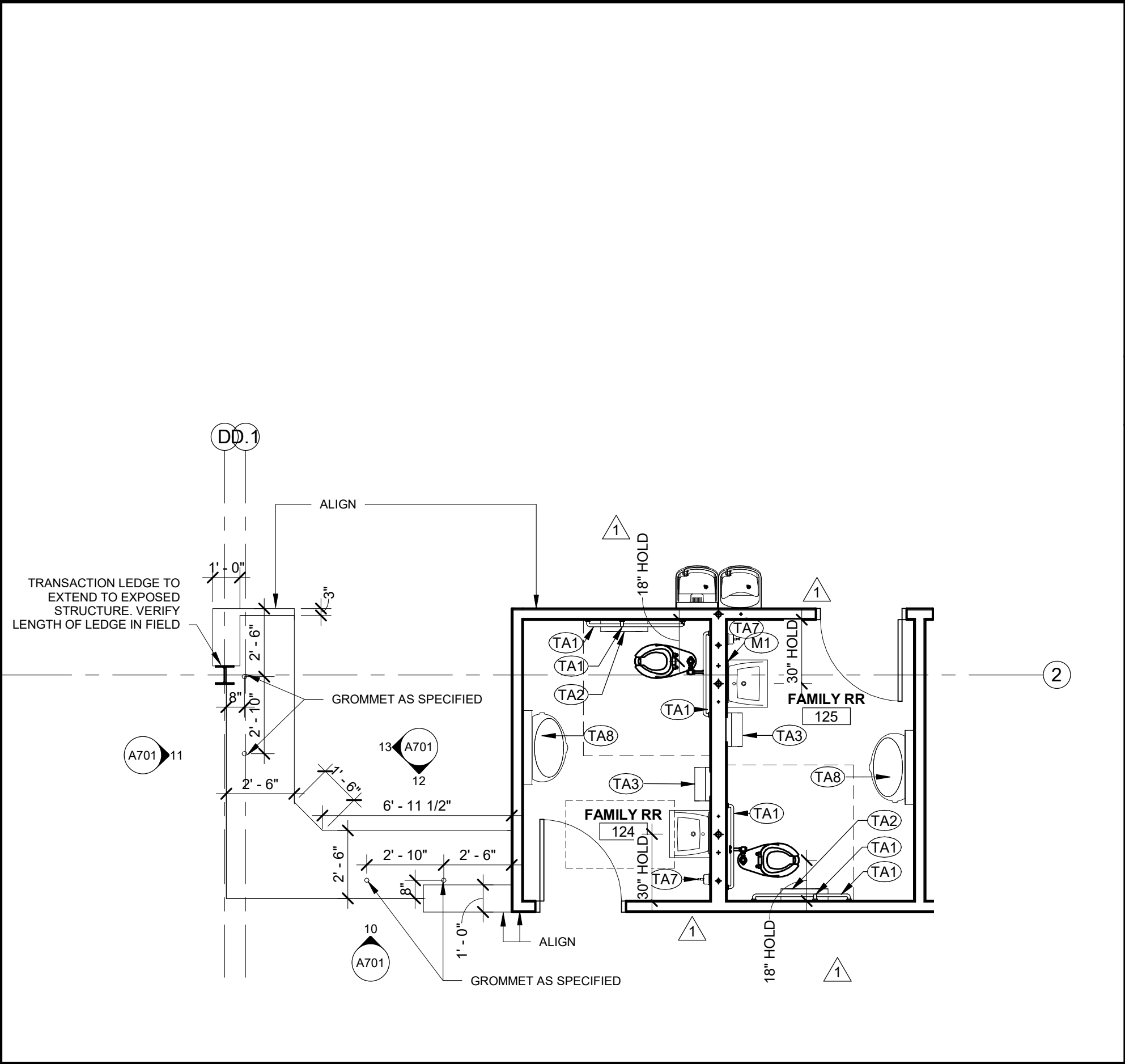
**KEY PLAN**

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
2	ADDENDUM 02	01/20/20
5	ASI 03	Date 5

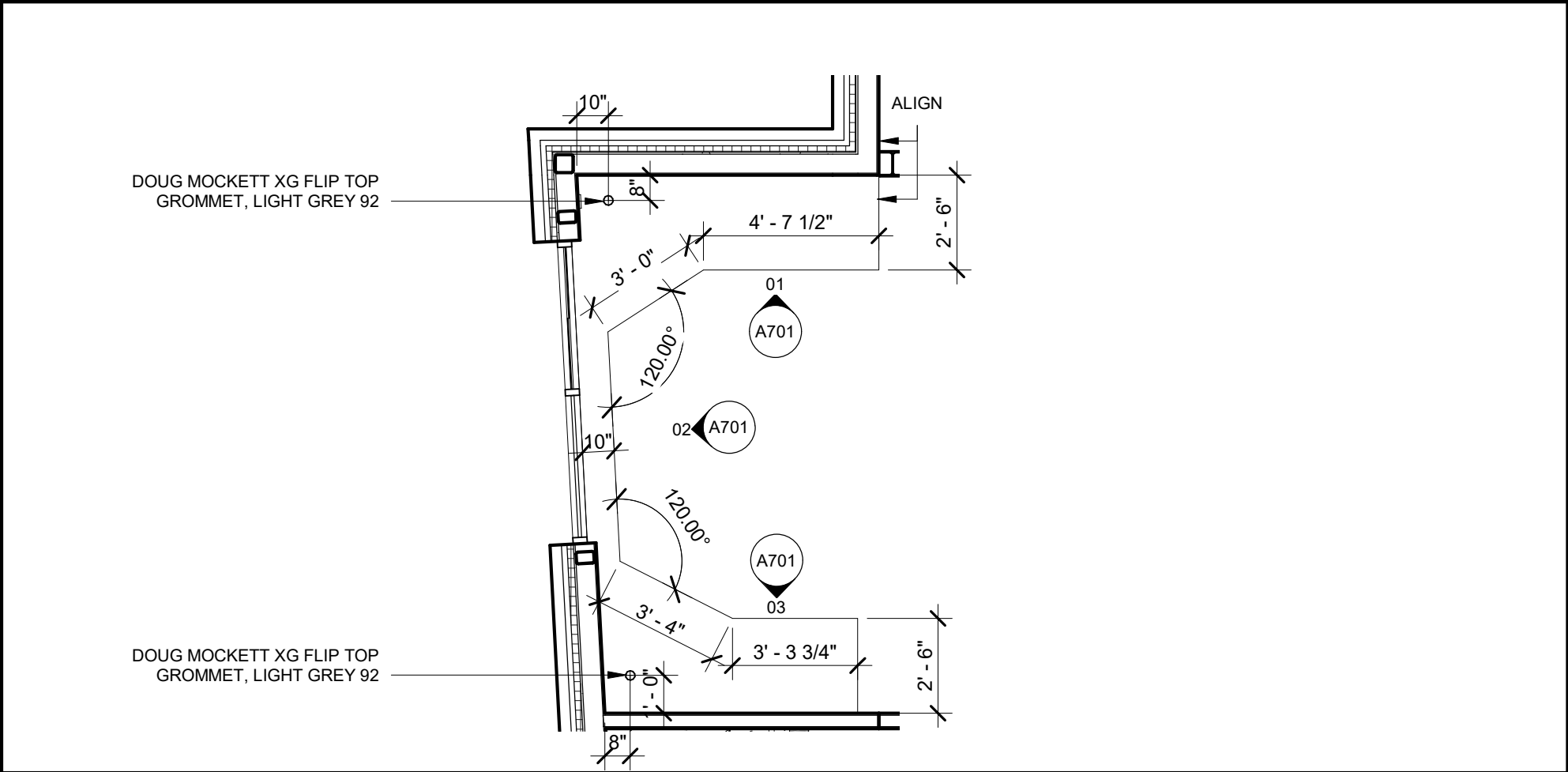
Project No. WP10 Date 12-23-2019 Drawn TLK

Drawing No.

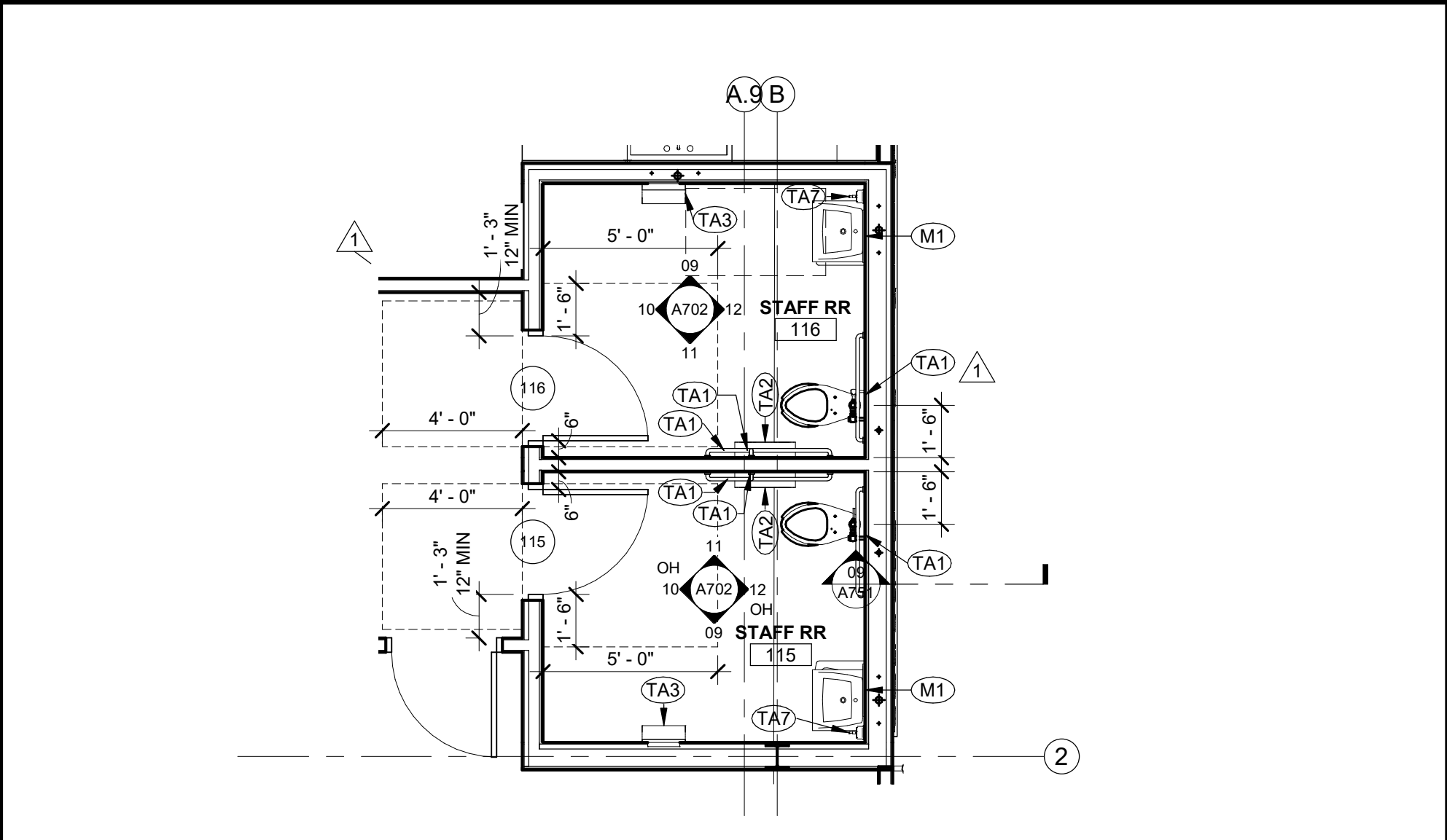
**A101**  
FLOOR PLAN - AREA A



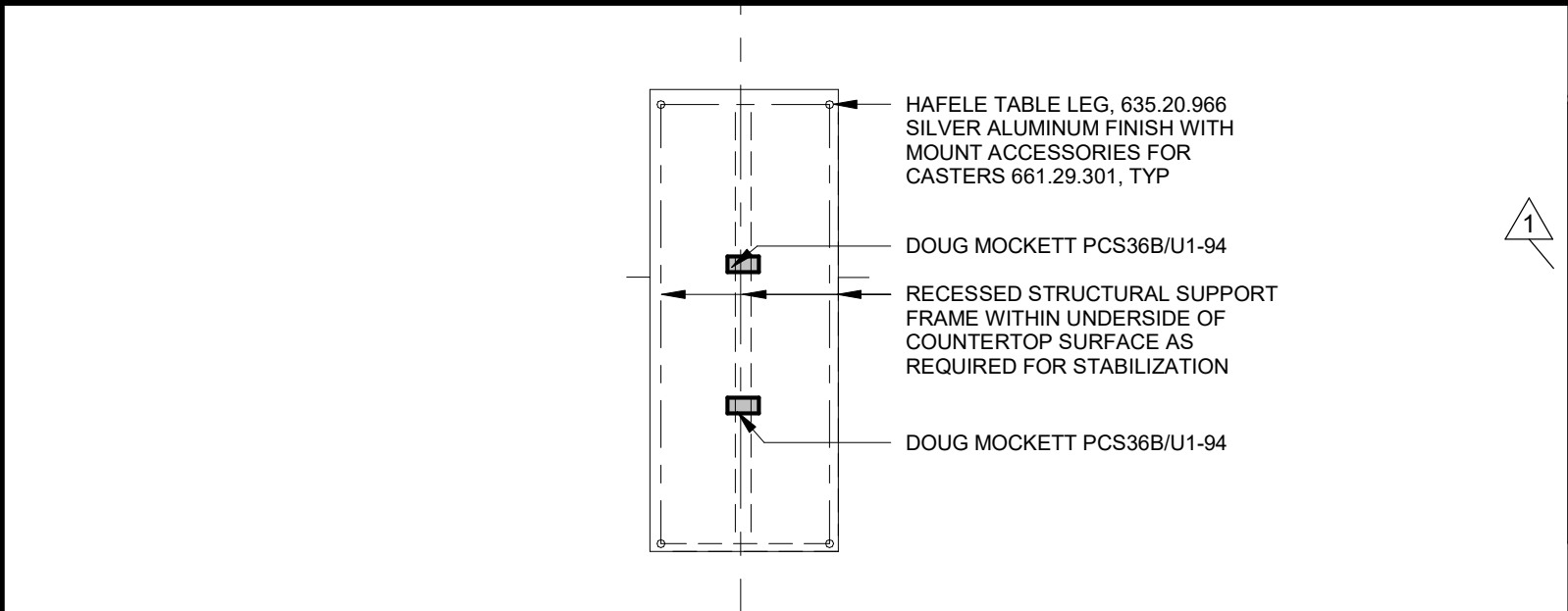
**07** ENLARGED PLAN - FAMILY RR & CHILDREN'S CIRC DESK  
1/4" = 1'-0"



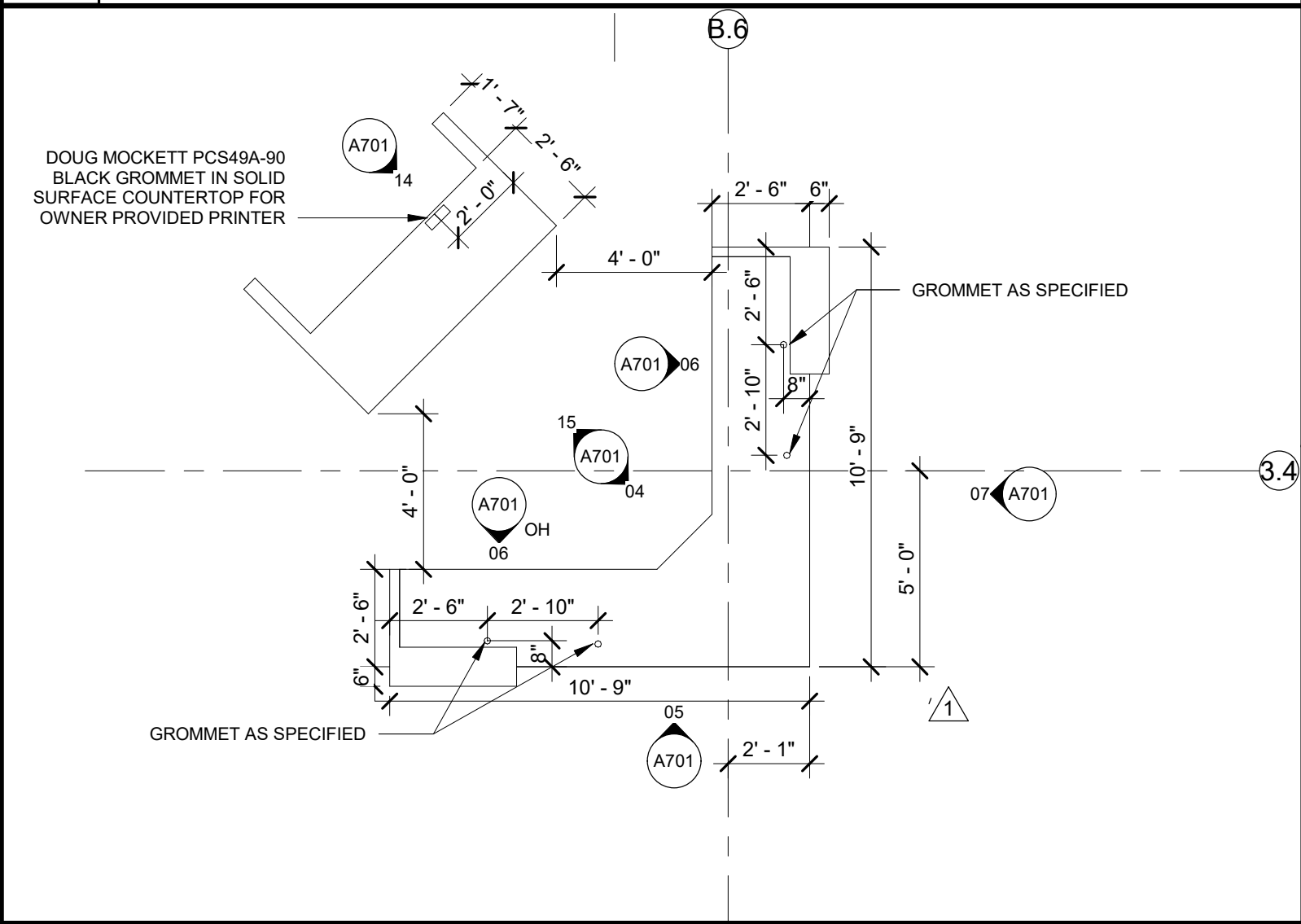
**06** ENLARGED PLAN - DRIVE UP WINDOW DESK  
1/4" = 1'-0"



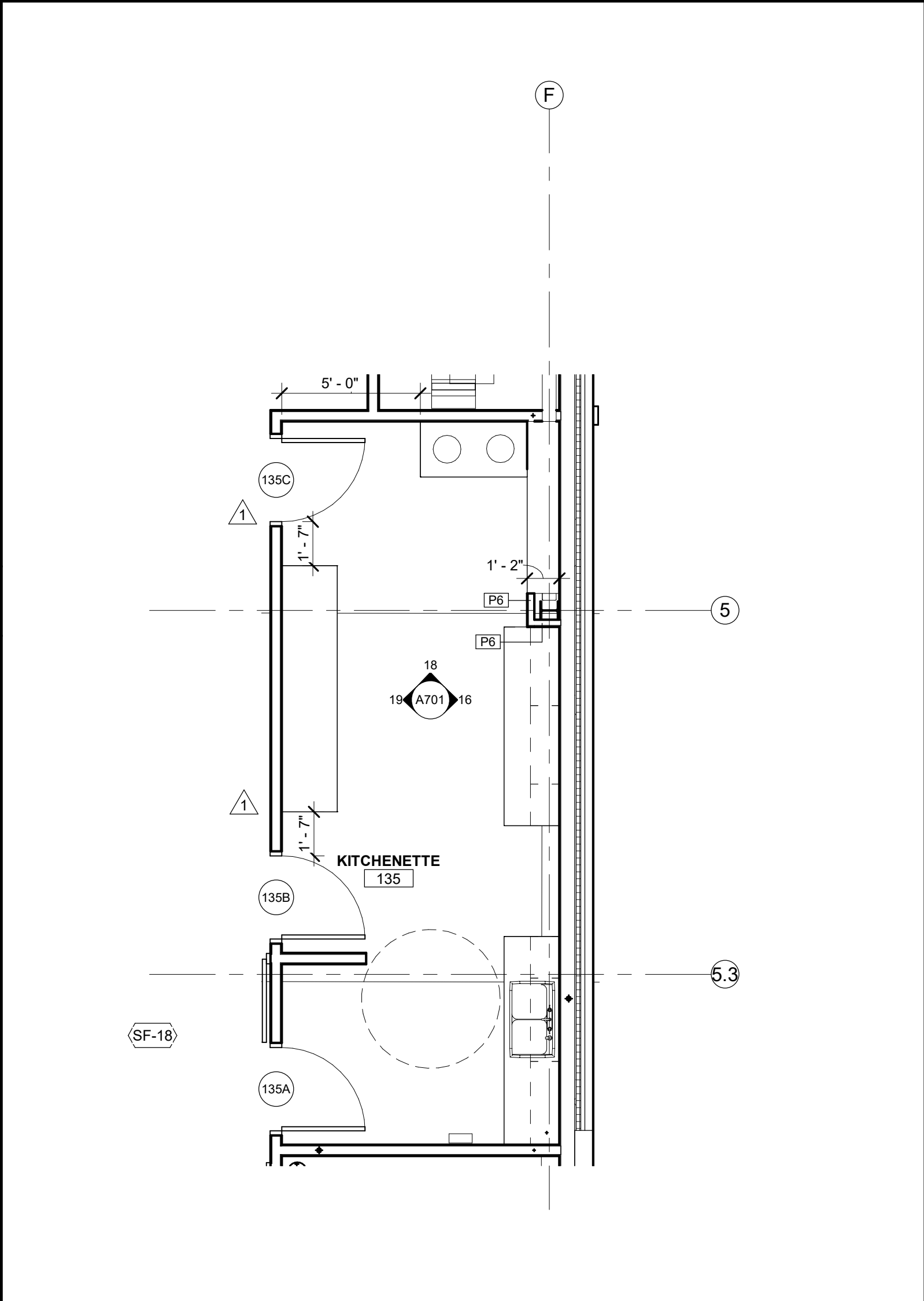
**05** ENLARGED PLAN - STAFF RR  
1/4" = 1'-0"



**04** ENLARGED PLAN - WORKROOM ISLAND  
1/4" = 1'-0"

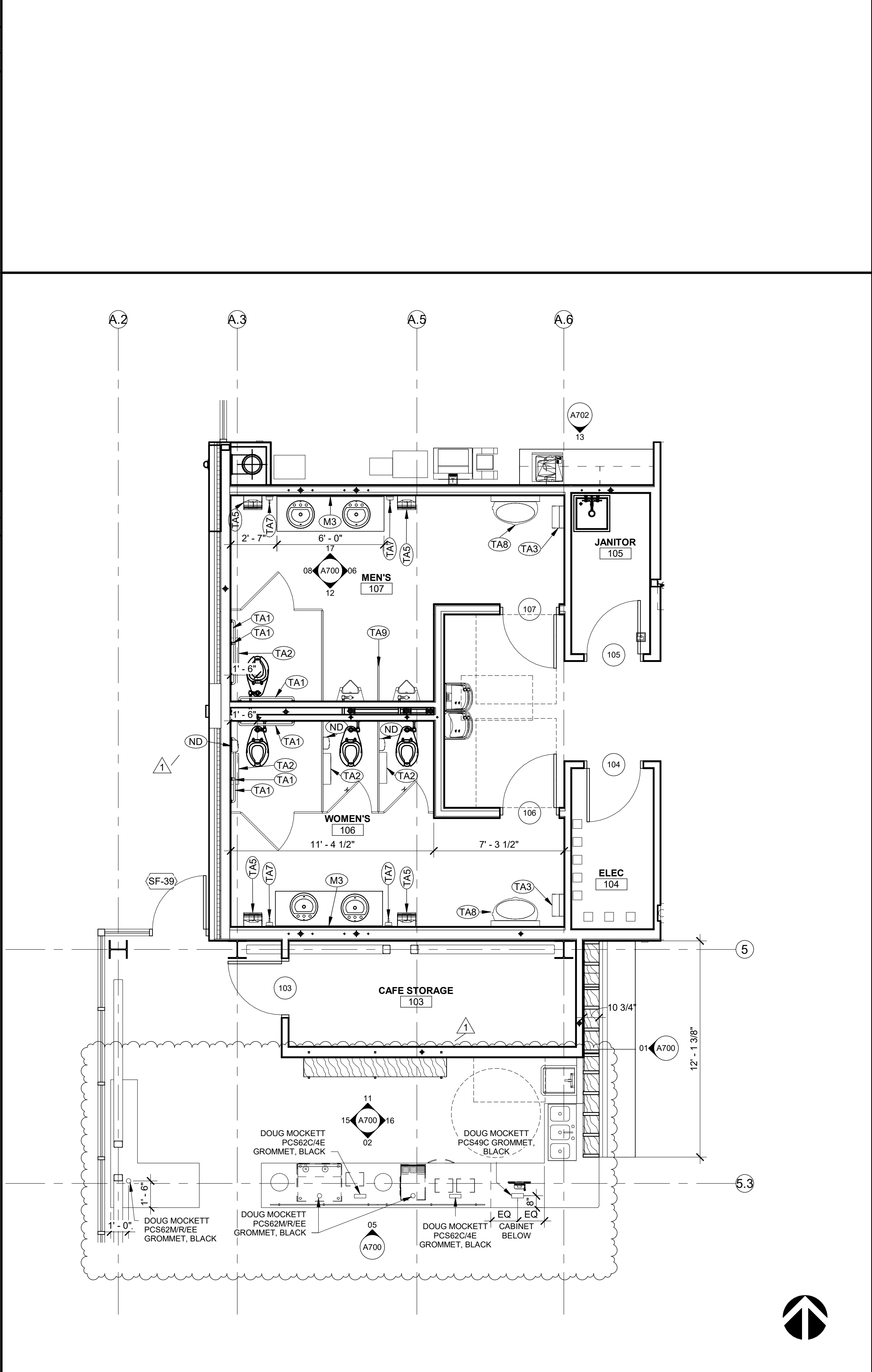


**03** ENLARGED PLAN - CIRCULATION DESK  
1/4" = 1'-0"



**02** ENLARGED PLAN - KITCHENETTE  
1/4" = 1'-0"

EQUIPMENT SCHEDULE		
Type Mark	Description	Comments
M1	MIRROR 24"x36" - SEE SPEC	GC PROVIDED, GC INSTALLED
M3	MIRROR 72"x42" - SEE SPEC	GC PROVIDED, GC INSTALLED
ND	FEMININE NAPKIN DISPOSAL	GC PROVIDED, GC INSTALLED
TA1	ADA GRAB BARS - SEE SPEC	GC PROVIDED, GC INSTALLED
TA2	TOILET PAPER DISPENSER - SEE SPEC	OWNER PROVIDED, GC INSTALLED
TA3	PAPER TOWEL DISPENSER - SEE SPEC	OWNER PROVIDED, GC INSTALLED
TA5	ELECTRIC HAND DRYER - SEE SPEC	GC PROVIDED, GC INSTALLED
TA7	SOAP DISPENSER - SEE SPEC	OWNER PROVIDED, GC INSTALLED
TA8	BABY CHANGING TABLE - SEE SPEC	GC PROVIDED, GC INSTALLED
TA9	URINAL SCREEN - SEE SPEC	GC PROVIDED, GC INSTALLED



**01** ENLARGED PLAN - CAFE + RESTROOMS  
1/4" = 1'-0"

**SAPP DESIGN ARCHITECTS**

3750 S. Fremont Ave.  
Springfield, MO 65804 417.877.9600

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**helix.**

1629 Walnut  
Kansas City, MO 64108 816.300.0300

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NEW BRANCH LIBRARY

**Colbern Road Branch**

1000 NE COLBERN ROAD  
LEE'S SUMMIT, MISSOURI 64086  
JACKSON COUNTY

Architect of Record

STATE OF MISSOURI  
MICHAEL JOHN HEULE  
A-5451  
REGISTERED ARCHITECT

Michael John Heule, Architect MO A-5451

Revision No.	Description	Date
1	ADDENDUM 01	01/13/20
4	ASI 02	03/13/20
5	ASI 03	Date 5

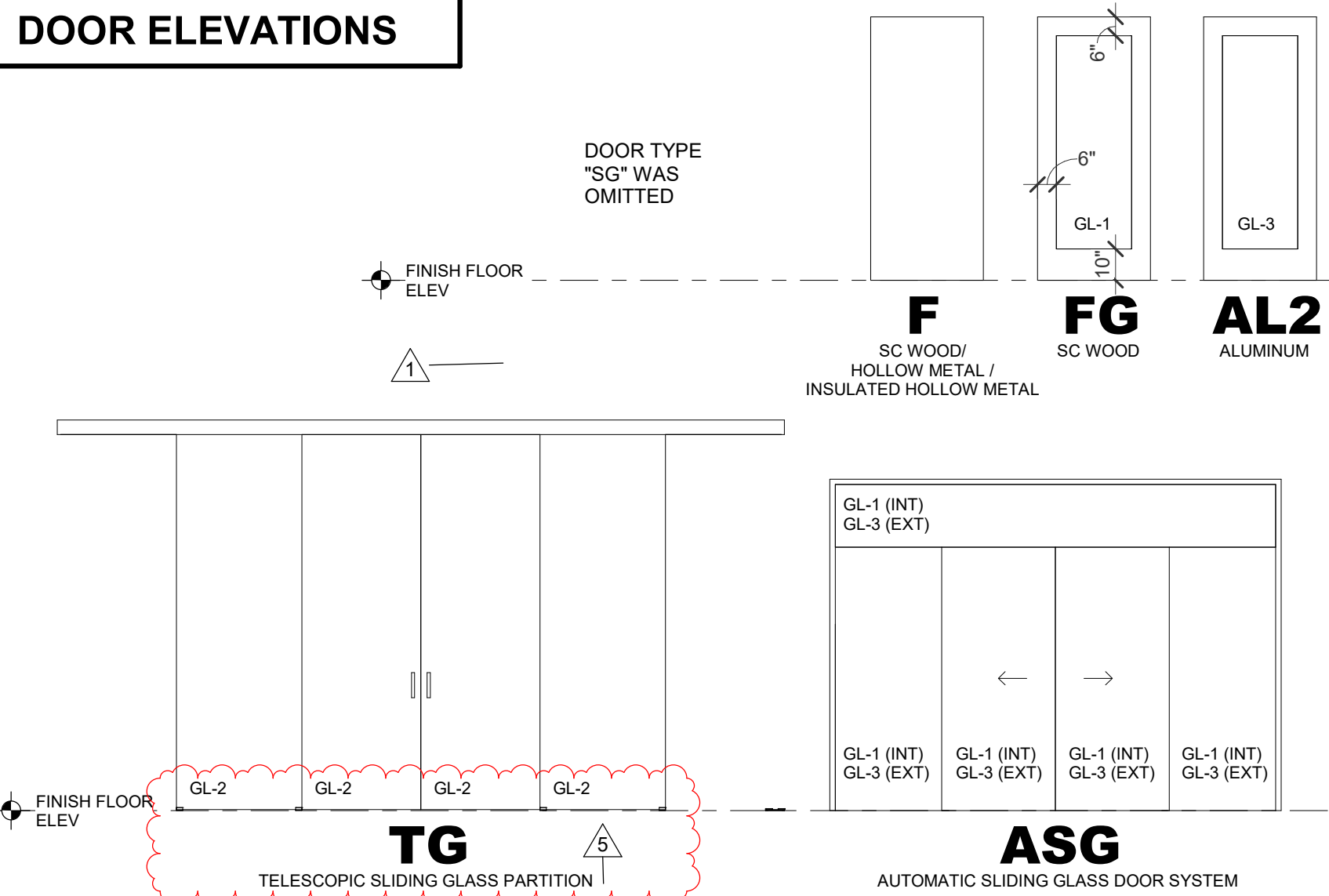
Project No.	Date	Drawn
WP10	12-23-2019	TLK

Drawing No.

**A150**  
ENLARGED PLANS

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## DOOR ELEVATIONS



## DOOR HARDWARE SETS

- |  |  |
|--|--|
| SET 01                                       | SET 06                                     |
| COMPLETE BY SLIDING DOOR MANUFACTURER        | 6 H.W. HINGES                              |
| 1 CYLINDER                                   | 2 EXIT DEVICE (CONCEALED RODS, CLASSROOM F |
|  | 2 CLOSERS (WITH HOLD OPEN 1 @ 180)         |
| SET 02                                       | 1 WALL STOP                                |
| 3 H.W. HINGES                                | 1 CONTINUOUS ACOUSTICAL SEALS              |
| 1 LOCKSET (CLASSROOM FUNCTION)               | 2 AUTOMATIC DOOR BOTTOMS                   |
| 1 ELECTRIC STRIKE (CONNECT TO CARD READER)   | 1 SPLIT ASTRAGAL                           |
| 1 CLOSER (WITH STOP)                         |  |
| 1 WALL STOP                                  | SET 07                                     |
| 1 CONTINUOUS ACOUSTICAL SEALS                | 3 H.W. HINGES                              |
| 1 AUTOMATIC DOOR BOTTOM                      | 3 LOCKSET (PRIVACY FUNCTION)               |
|  | 1 WALL STOP                                |
|  | 1 CONTINUOUS ACOUSTICAL SEALS              |
|  | 1 AUTOMATIC DOOR BOTTOM                    |
| SET 03                                       | SET 08                                     |
| 3 H.W. HINGES                                | 3 H.W. HINGES                              |
| 1 EXIT DEVICE (RIM TYPE, CLASSROOM FUNCTION) | 1 LOCKSET (CLASSROOM FUNCTION)             |
| 1 CLOSER (WITH STOP AND HOLD OPEN)           | 1 ELECTRIC STRIKE (CONNECT TO CARD READER) |
| 1 CONTINUOUS ACOUSTICAL SEALS                | 1 THUMB TURN OCCUPANCY INDICATOR           |
| 1 AUTOMATIC DOOR BOTTOM                      | 1 CLOSER (WITH STOP)                       |
|  | 1 WALL STOP                                |
| SET 04                                       | 1 CONTINUOUS ACOUSTICAL SEALS              |
| 3 H.W. HINGES                                | 1 AUTOMATIC DOOR BOTTOM                    |
| 1 LOCKSET (CLASSROOM FUNCTION)               |  |
| 1 CLOSER (WITH HOLD OPEN)                    | SET 09                                     |
| 1 WALL STOP                                  | 3 H.W. HINGES                              |
| 1 SILENCERS                                  | 1 LATCHSET (PASSAGE)                       |
|  | 1 SILENCERS                                |
| SET 05                                       | 1 WALL STOP                                |
| 3 H.W. HINGES                                |  |
| 1 PUSH/PULL                                  | SET 10                                     |
| 1 CLOSER                                     | 3 H.W. HINGES                              |
| 1 SILENCERS                                  | 1 LOCKSET (OFFICE FUNCTION)                |
| 1 WALL STOP                                  | 1 WALL STOP                                |
| 1 LOW PROFILE SWEEP                          | 1 CONTINUOUS ACOUSTICAL SEALS              |
|  | 1 AUTOMATIC DOOR BOTTOM                    |

- SET 11  
2 PIVOTS (BY ALUM DOOR/FRAME MFGR)  
1 EXIT DEVICE (KEYED DOGGING)  
1 CLOSER  
1 ELECTRIC STRIKE (CONNECT TO CARD READER OUTSIDE)  
1 CONTINUOUS WEATHERSTRIPPING (BY ALUM DOOR/FRAME MFGR)  
1 EXTERIOR BOTTOM SWEEP (BY ALUM DOOR/FRAME MFGR)  
1 THRESHOLD (BY ALUM DOOR/FRAME MFGR)
- SET 12  
2 PIVOTS (BY ALUM DOOR/FRAME MFGR)  
1 EXIT DEVICE (RIM TYPE, CLASSROOM FUNCTION)  
1 CLOSER  
1 ELECTRIC STRIKE (CONNECT TO CARD READER OUTSIDE)  
1 CONTINUOUS WEATHERSTRIPPING (BY ALUM DOOR/FRAME MFGR)  
1 EXTERIOR BOTTOM SWEEP (BY ALUM DOOR/FRAME MFGR)  
1 THRESHOLD (BY ALUM DOOR/FRAME MFGR)

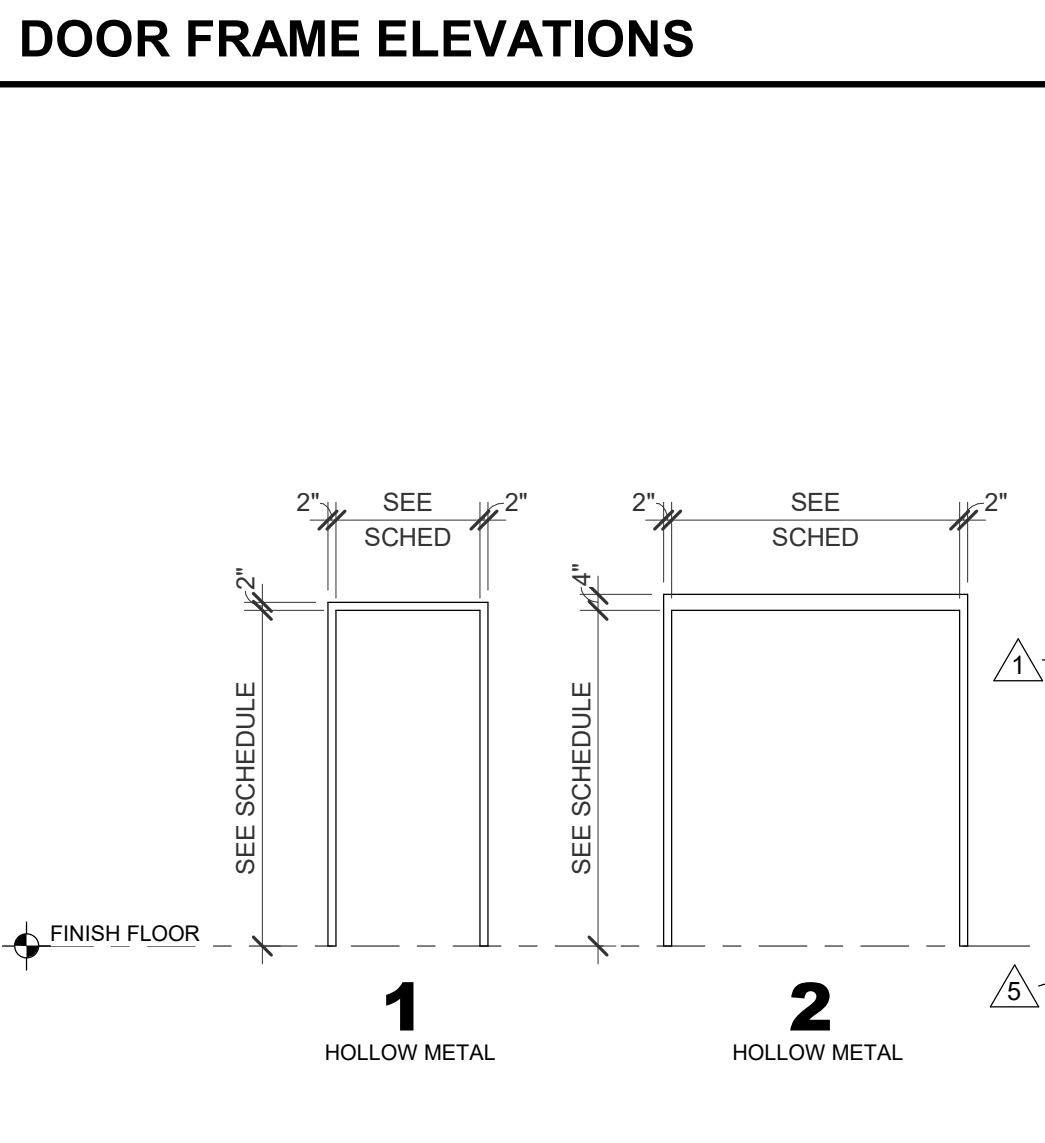
- SET 13
- |   |   |   |
|---|---|---|
| 2 | PIVOTS (BY ALUM DOOR/FRAME MFG#)                      | 5 |
| 1 | EXIT DEVICE (DELAYED OPEN WITH ALARM)                 |   |
| 1 | CLOSER  |   |
| 1 | CONTINUOUS WEATHERSTRIPPING (BY ALUM DOOR/FRAME MFG#) |   |
| 1 | EXTERIOR BOTTOM SWEEP (BY ALUM DOOR/FRAME MFG#)       |   |
| 1 | WEATHERSTRIPPING                                      |   |
| 1 | THRESHOLD (BY ALUM DOOR/FRAME MFG#)                   |   |

- SET 14**
- 2 PIVOTS (BY ALUM DOOR/FRAME MFGR)
  - 1 EXIT DEVICE (EXTERIOR LEVER CLASSROOM FUNCTION)
  - 1 CLOSER
  - 1 CONTINUOUS WEATHERSTRIPPING (BY ALUM DOOR/FRAME MFGR)
  - 1 EXTERIOR BOTTOM SWEEP (BY ALUM DOOR/FRAME MFGR)
  - 1 WEATHERSTRIPPING
  - 1 THRESHOLD (BY ALUM DOOR/FRAME MFGR)
- SET 15**
- 6 H.W. HINGES
  - 2 EXIT DEVICE (VERTICAL RODS)
  - 2 CLOSERS (WITH STOP AND HOLD OPEN)
  - 1 SILENCERS
- SET 16**
- 6 H.W. HINGES
  - 1 LOCKSET (CLASSROOM FUNCTION)
  - 1 CLOSER (WITH HOLD OPEN AND STOP)

- 1 DUMMY TRIM  
1 TOP FLUSH BOLT  
1 OVERHEAD STOP  
2 SILENCERS
- SET 17**
- 3 H.W. HINGES  
3 EXIT DEVICE (RIM TYPE)  
1 ELECTRIC STRIKE (CONNECTED TO CARD READER)  
1 CLOSER (WH STOP AND HOLD OPEN)  
1 CLOSER (PROG-PWFT)
- 5

- 1 EXTERIOR BOTTOM SWEEP  
1 CONTINUOUS WEATHERSTRIPPING  
1 CONTINUOUS TOP WEATHERSTRIP  
1 THRESHOLD

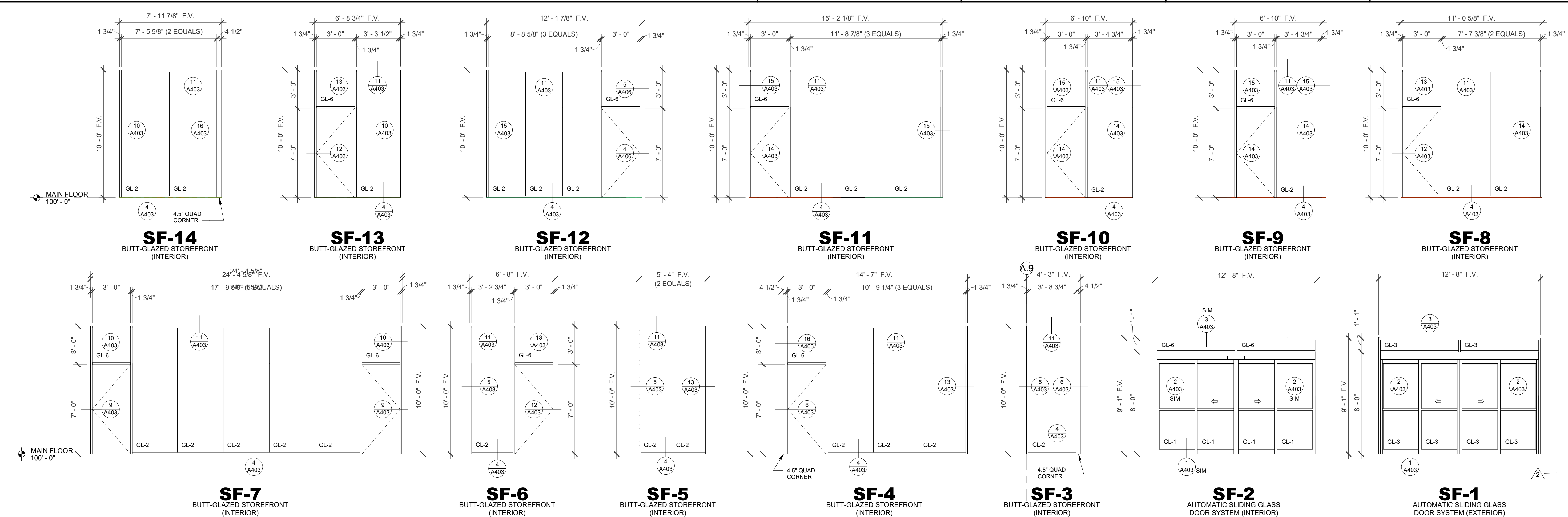
## DOOR FRAME ELEVATIONS



## DOOR SCHEDULE

DOOR NO.	CONFIG	WIDTH	DOOR					ELEV	MATL	FRAME					HDWR SET	COMMENTS
			HEIGHT	THICK	ELEV	MATL	ELEV			MATL	DETAIL					
											HEAD	LEFT JAMB	RIGHT JAMB	SILL		
101A	SLIDER	12" - 8"	8" - 0"	1/4"	ASG	AL/F3	SF-1	AL/F3	3/A403	2/A403	2/A403	1/A403	01	AUTO SLIDING GLASS DOOR - EXTERIOR		
101B	SLIDER	12" - 8"	8" - 0"	1/4"	ASG	AL/F3	SF-2	AL/F3	3/A403	2/A403	2/A403	1/A403	BY MFR	AUTO SLIDING GLASS DOOR - INTERIOR		
102A	SINGLE	3' - 0"	7' - 0"	1 3/4"	AL2	AL/F3	SF-31	AL/F3	11/A405	10/A405	11/A405	9/A405	14			
102B	SINGLE	3' - 0"	8' - 0"	1 3/4"	AL2	AL/F3	SF-39	AL/F3	11/A405	12/A405	11/A405	9/A405	12			
103	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04			
104	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04			
105	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04			
106	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	05			
107	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	05			
108		9' - 4 1/2"			AL			AL	2/A451	7/A406	7/A406	NA	01	ROLLING SECURITY GRILLE		
109A	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-4	AL/F3	13/A405	6/A403	13/A405	NA	10			
109B	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	10	MIN 41 STC FOR DOOR ASSEMBLY		
110	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	10			
111	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04			
112	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	10			
113	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-6	AL/F3	13/A405	13/A405	12/A405	NA	02			
114	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04			
115	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	07			
116	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	07			
117	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	IHM/F1	2	HM/F1	14/A405	15/A405	15/A405	9/A405	17			
118	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04			
119	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	09			
121A	SINGLE	3' - 0"	8' - 0"	1 3/4"	AL2	AL/F3	SF-24	AL/F3	11/A405	8/A405	11/A405	9/A405	NA	14		
121B	SINGLE	3' - 0"	8' - 0"	1 3/4"	AL2	AL/F3	SF-26	AL/F3	11/A405	11/A405	11/A405	9/A405	13			
122A	SINGLE	7' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-7	AL/F3	13/A405	13/A405	9/A403	NA	03			
122B	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-7	AL/F3	13/A405	9/A403	13/A405	NA	03			
123	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04			
124	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	07			
125	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	07			
126	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	08			
127	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-8	AL/F3	11/A405	13/A403	14/A403	4/A403	02			
128	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-9	AL/F3	11/A405	15/A403	14/A403	4/A403	02			
129	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-10	AL/F3	11/A405	15/A403	14/A403	4/A403	02			
130	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-11	AL/F3	13/A405	14/A403	15/A403	NA	02			
131	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-12	AL/F3	13/A405	15/A403	14/A403	NA	02			
132A	PAIR	6' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-16	AL/F3	13/A405	1/A404	13/A405	NA	06			
132B	PAIR	6' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-15	AL/F3	13/A405	13/A405	1/A404	NA	06			
132C	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-13	AL/F3	13/A405	12/A403	13/A405	NA	03			
132D	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-18	AL/F3	13/A405	13/A405	12/A403	NA	03			
133	PAIR	6' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	16			
134	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04			
135A	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04			
135B	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04			
135C	SINGLE	3' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	04			
136	PAIR	6' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	16			
137A	PAIR	12" - 4"	10" - 0"	1/2"	TG	AL/F3	TG	AL/F3	04/A651	NA	NA	NA	01	TELESCOPIC SLIDING GLASS PARTITION		
137B	SINGLE	3' - 0"	8' - 0"	1 3/4"	AL2	AL/F3	SF-29	AL/F3	11/A405	11/A405	11/A405	9/A405	03			
137C	SINGLE	3' - 0"	7' - 0"	1 3/4"	FG	WD/F2	SF-19	AL/F3	13/A405	13/A405	12/A403	NA	11			
142	PAIR	6' - 0"	7' - 0"	1 3/4"	F	WD/F2	1	HM/F1	4/A405	5/A405	5/A405	NA	15	EXIT DEVICES ON ELECTRICAL ROOM SIDE		

## STOREFRONT ELEVATIONS



**SAPP  
DESIGN  
ARCHITECTS**

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Springfield, MO 65804 417.877.9600

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529 Walnut  
Kansas City, MO 64108 816.300.0300

elux Architecture + Design  
Missouri State Certificate of Authority #000720

## SPECIAL NOTICES

the event the client consents to, allows, authorizes or approves of or to any other person, specification or other construction documents and these changes are not approved in writing by the design professional, the client recognizes that such changes and the results thereof are not the responsibility of the design professional. Therefore, the client agrees to release the design professional from all liability arising from the construction, use or result of such changes. In addition, the client agrees to the fullest extent permitted law, to indemnify and hold the design professional harmless from all damage, liability or cost (including reasonable attorney's fees and costs of defense) arising from such changes.


The personal seal of the registered Architect or Engineer shall be the equivalent of his signature whenever & wherever used, and the holder of the seal shall authenticate this sheet and the specification conditions pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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Architect of Record



3-26-2020

Michael James Sapp, Architect MO A-5051

Revision No.	Description	Date
	ADDENDUM 01	01/13/20
	ADDENDUM 02	01/20/20
	ASI 03	Date 5

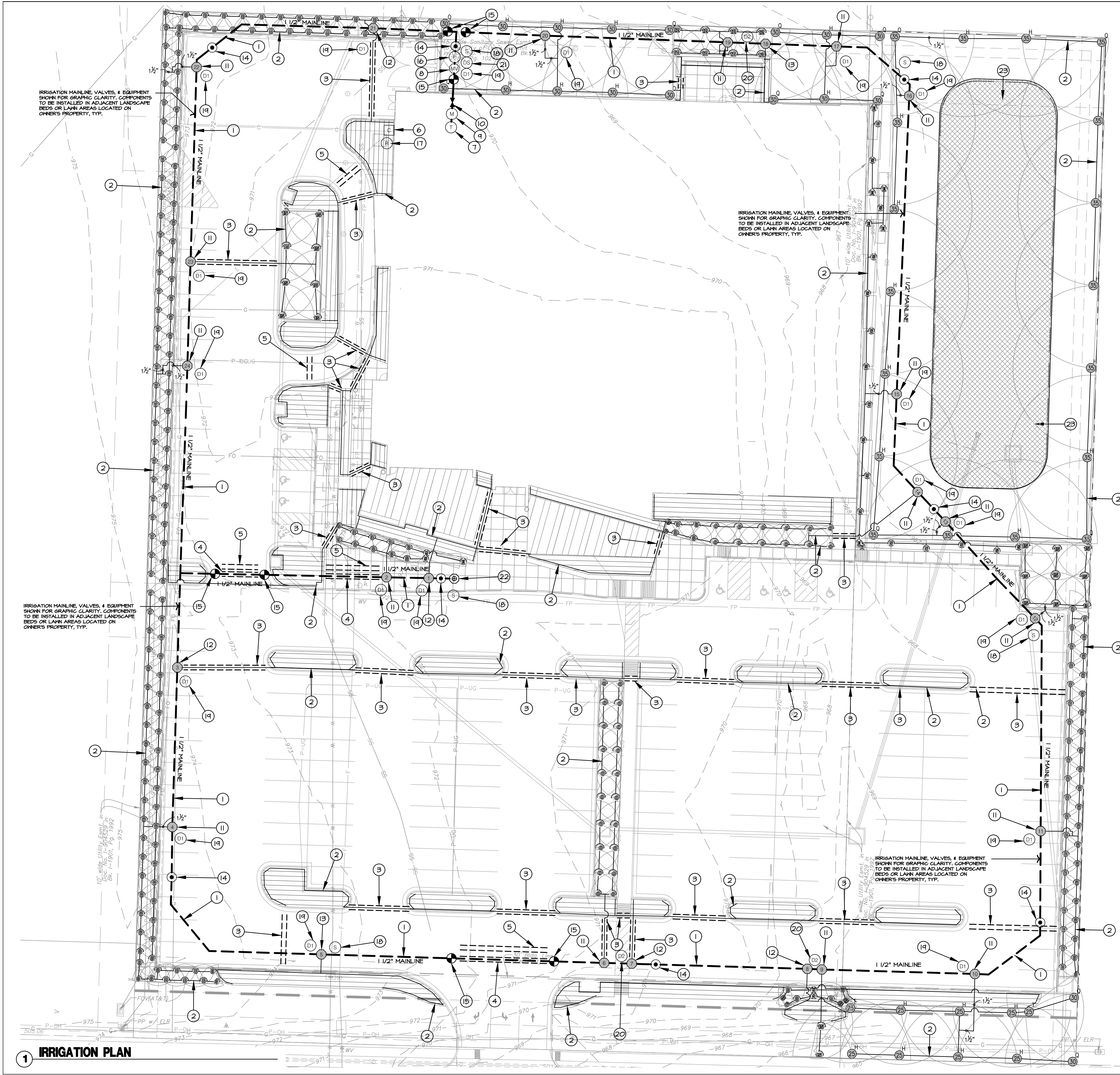
Project No.	Date	Drawn
WP10	12-23-2019	JDL

Drawing No. **A400**

## A400

### DOOR SCHEDULE & ELEVATIONS

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IRRIGATION LEGEND:

- LIMITS OF CONSTRUCTION
- - - RIGHT OF WAY / PROPERTY LINE
- FULL CIRCLE SPRAY HEAD; REF: 2/L690
- ◐ HALF CIRCLE SPRAY HEAD; REF: 2/L690
- ◑ ONE THIRD CIRCLE SPRAY HEAD; REF: 2/L690
- ▬ QUARTER CIRCLE SPRAY HEAD; REF: 2/L690
- ▬ SIDE STRIP SPRAY HEAD; REF: 2/L690
- ▬ END STRIP SPRAY HEAD; REF: 2/L690
- ROTOR HEAD; REF: 1/L690
- POTABLE WATER SERVICE LINE
- MAINLINE, SIZE AS SHOWN; REF: 5/L691
- LATERAL PIPE, SIZE AS SHOWN; REF: 5/L691
- LANDSCAPE DRIPLINE; REF: 3, 4, 5, 6, 7 & 9/L690
- SCHEDULE 40 PVC SLEEVE
- IRRIGATION WATER METER
- BACKFLOW PREVENTER
- IRRIGATION POINT OF CONNECTION
- MASTER CONTROL VALVE
- ZONE CONTROL VALVE
- MANUAL GATE VALVE
- QUICK COUPLER VALVE
- FLOW SENSOR
- AUTOMATIC CONTROLLER
- RAIN/FREEZE SENSOR
- SURGE PROTECTOR
- DECODER -1 SOLENOID
- DECODER -2 SOLENOID
- DECODER -SENSOR
- MAINLINE / CONTROL WIRE TERMINUS
- TEMPORARY IRRIGATION SYSTEM

IRRIGATION PLAN NOTES:

- POTABLE WATER IRRIGATION MAINLINES TO BE 1-1/2" PVC PIPE OR AS SHOWN ON PLANS; REF: 5/L691.
- POTABLE WATER IRRIGATION LATERALS TO BE 1" PVC PIPE OR AS SHOWN ON PLANS; REF: 5/L691.
- POTABLE WATER IRRIGATION SLEEVES SHALL BE 4" PVC SCHEDULE 40 PIPE OR AS SHOWN ON PLANS.
- POTABLE WATER IRRIGATION SLEEVES SHALL BE 6" PVC SCHEDULE 40 PIPE OR AS SHOWN ON PLANS.
- IRRIGATION CONTROL WIRE SLEEVE SHALL BE 4" PVC SCHEDULE 40 PIPE. SLEEVE SHALL EXTEND FROM MAINLINE LOCATION TO CONTROLLER LOCATION.
- IRRIGATION CONTROLLER SHALL BE RAIN BIRD ESP-LXD CONTROLLER. FINAL CONTROLLER LOCATION SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. ELECTRICAL SERVICE AND DATA CONNECTION TO THE CONTROLLER LOCATION IS TO BE COORDINATED BY THE GENERAL CONTRACTOR AND PROVIDED BY ELECTRICAL CONTRACTOR. POWER AND DATA HOOK-UP TO THE CONTROLLER BY IRRIGATION CONTRACTOR. INSTALL CONTROLLER PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS; REF: 8/L691.
- IRRIGATION POINT OF CONNECTION. IRRIGATION CONTRACTOR SHALL CONNECT IRRIGATION MAINLINE TO WATER SUPPLY AS REQUIRED BY ALL CITY, COUNTY OR STATE REGULATIONS. IRRIGATION TAP SHALL OCCUR AFTER METER, BACKFLOW PREVENTER, AND IRRIGATION BOOSTER PUMP; REF: 6/L691 AND MEP PLANS.
- 1-1/2" RAIN BIRD BPE MODEL MASTER VALVE CONNECTED TO POTABLE IRRIGATION MAINLINE AFTER IRRIGATION POINT OF CONNECTION, METER AND BACKFLOW PREVENTER; REF: 10/L690.
- IRRIGATION WATER METER; REF: MEP PLANS
- BACKFLOW PREVENTER; REF: MEP PLANS
- RAIN BIRD PEB MODEL CONTROL VALVE TO BE USED ON ALL POTABLE WATER IRRIGATION MAINLINES. REFERENCE IRRIGATION SCHEDULE FOR SIZE, FLOW AND PRESSURE REQUIREMENTS; REF: 8/L690.
- RAIN BIRD XCZ-100-PRB-COM DRIP CONTROL VALVE TO BE USED ON ALL POTABLE WATER IRRIGATION MAINLINES; REF: 9/L690.
- RAIN BIRD XCZ-LF-100-PRF DRIP CONTROL VALVE TO BE USED ON ALL POTABLE WATER IRRIGATION MAINLINES; REF: 9/L690.
- QUICK COUPLER VALVE LOCATED ON POTABLE WATER SHALL BE RAIN BIRD 44RC WITH YELLOW CAP LOCATED IN 10" ROUND VALVE BOX; REF: 2/L691.
- INSTALL MANUAL GATE VALVE IN LOCATIONS INDICATED ON IRRIGATION MAINLINES. MANUAL GATE VALVE TO MATCH SIZE OF MAINLINE PIPE; REF: 4/L691.
- RAIN BIRD SERIES FLOW SENSOR, PER SPECIFICATIONS; REF: 12/L690 & 1/L691.
- RAIN BIRD RAIN/FREEZE SENSOR. INSTALL ON BUILDING, PER SPECIFICATIONS. FINAL LOCATION TO BE APPROVED BY LANDSCAPE ARCHITECT; REF: 6/L691.
- SURGE PROTECTOR. RAIN BIRD LSP-TURF LINE SURGE PROTECTION; PER SPECIFICATIONS; REF: 11/L690.
- DECODER-1 SOLENOID. RAIN BIRD FD-101TURF FIELD DECODER, PER SPECIFICATIONS; REF: 8, 9 & 10/L690.
- DECODER-2 SOLENOID. RAIN BIRD FD-202TURF FIELD DECODER, PER SPECIFICATIONS; REF: 8, 9 & 10/L690.
- DECODER - SENSOR. RAIN BIRD SD-210TURF SENSOR DECODER, PER SPECIFICATION; REF: 12/L690 & 1/L691.
- IRRIGATION SYSTEM 2-WIRE COMMUNICATION TERMINUS. IRRIGATION CONTRACTOR SHALL TERMINATE MAINLINE AND CONTROL WIRE IN VALVE BOX. MAINLINE SHALL TERMINATE WITH MANUAL DRAIN VALVE. CONTROL WIRE SHALL TERMINATE WITH FIVE FEET OF CONTROL WIRE COILED IN VALVE BOX.
- CONTRACTOR SHALL INSTALL TEMPORARY ABOVE GRADE IRRIGATION SYSTEM PROVIDING FULL COVERAGE OF SEEDING AREA FOR ESTABLISHMENT. CONTRACTOR SHALL REMOVE TEMPORARY IRRIGATION SYSTEM AFTER ONE FULL GROWING SEASON.

**SAPP DESIGN ARCHITECTS**  
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Springfield, MO 65804 417.877.9600

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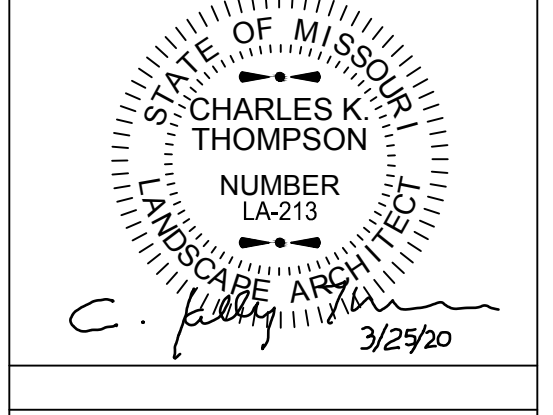
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The personal seal of the registered Architect or Engineer shall be the legal equivalent of his signature wherever & whenever used, and the owner of the seal shall authenticate this sheet and the specification sections pertaining to this sheet. Responsibility shall be disclaimed for all other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or parts of the architectural project.

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RENOVATIONS TO  
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Revision No. Description Date

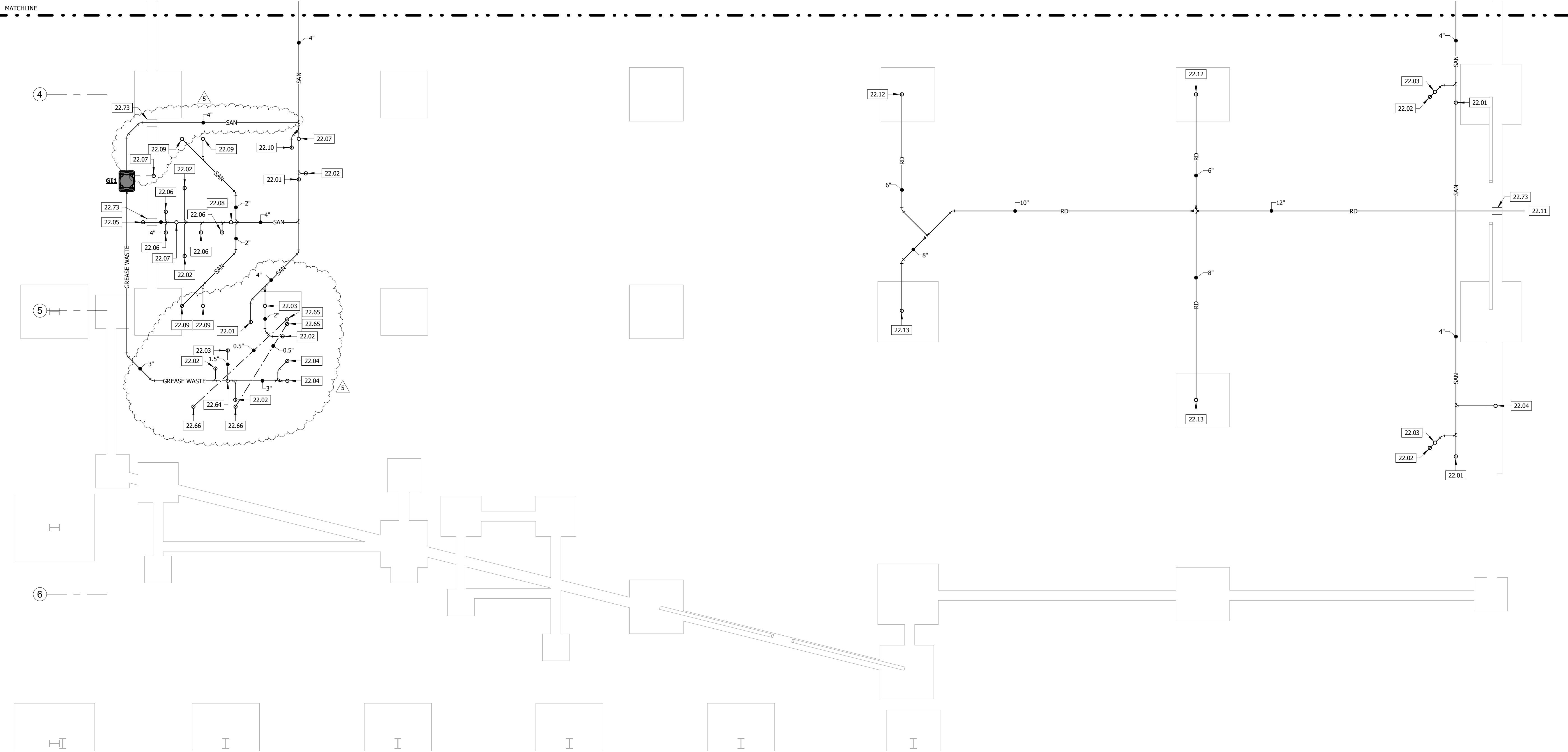
Project No. 016-1023 Date 12/23/19 Drawn TG

Drawing No. **L601**

**IRRIGATION PLAN**

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KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
22.01	4" WASTE UP TO FINISH FLOOR CLEANOUT,
22.02	2" TRAPPED WASTE UP TO FLOOR DRAIN,
22.03	1.5" VENT UP,
22.04	2" WASTE UP TO SINK,
22.05	4" WASTE UP TO FINISH GRADE CLEANOUT,
22.06	4" WASTE UP TO WATER CLOSET,
22.07	2" VENT UP,
22.08	2" WASTE UP,
22.09	2" WASTE UP TO LAVATORY,
22.10	3" TRAPPED WASTE UP TO MOP BASIN,
22.11	REFER TO CIVIL PLAN FOR CONTINUATION,
22.12	6" ROOF DRAIN LEADER UP. COORDINATE WITH STRUCTURAL FOOTING,
22.13	8" ROOF DRAIN LEADER UP. COORDINATE WITH STRUCTURAL FOOTING,
22.64	1.5" VENT CONNECTION FROM TOP OF 3" GREASE WASTE,
22.65	0.5" COLD WATER UP TO VALVE MANIFOLD. PROVIDE PEX PIPING UNDERGROUND,
22.66	0.5" COLD WATER UP TO SUPPLY BOX. PROVIDE PEX PIPING UNDERGROUND,
22.73	PROVIDE SLEEVE THROUGH CONTINUOUS FOOTING,



1 UNDERGROUND PLUMBING PLAN - AREA A  
1/8" = 1'-0"

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ARCHITECTS

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Engineer of Record

STATE OF MISSOURI

JACOB  
ADAM NELSON  
NUMBER  
PE-2009018758

PROFESSIONAL ENGINEER

12/23/2019

JACOB A NELSON, PE MO PE-2009018758

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True Engineering Group LLC

Missouri State Certificate of Authority #E-2016000752

Revision No.

Description

Date

5

SI #03

03-26-2020

Project No.

Date

Drawn

WP10

12/23/2019

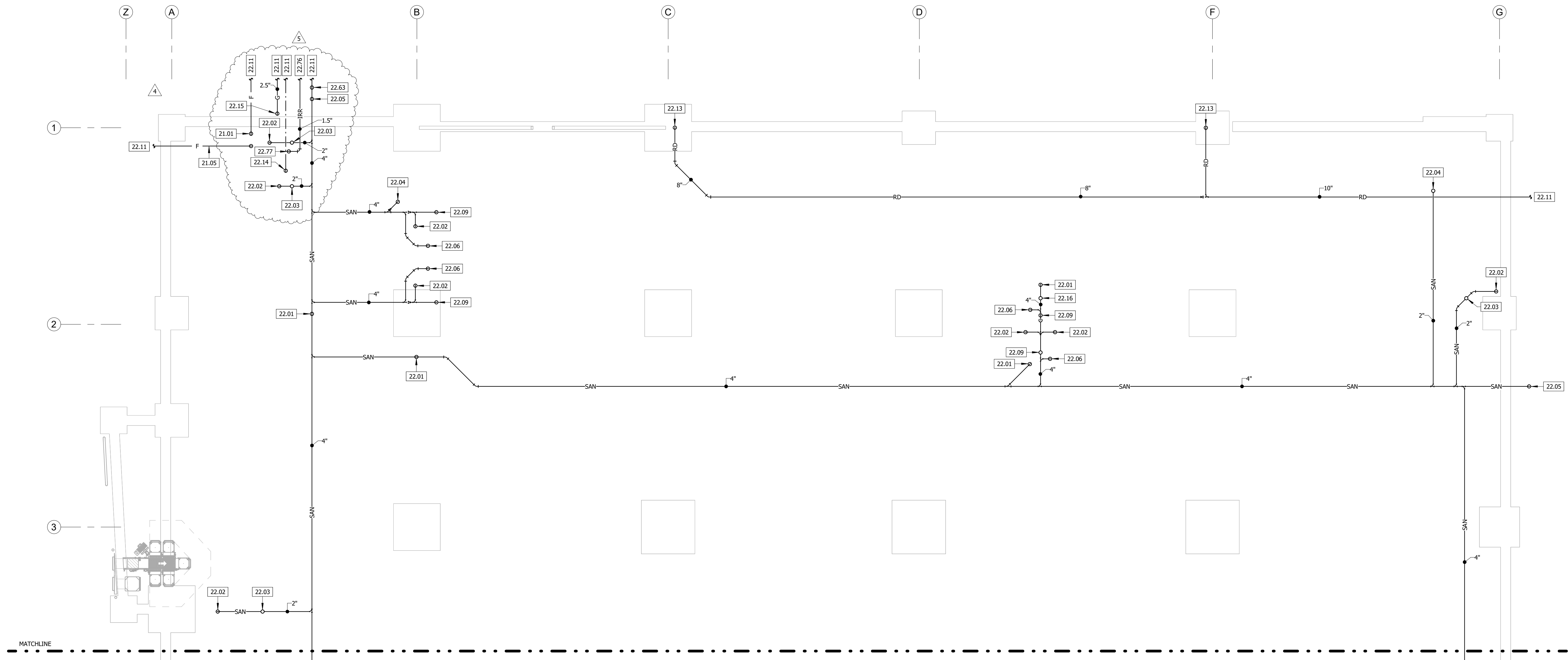
AH

Drawing No.

P100

UNDERGROUND PLUMBING  
PLAN - AREA A

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1 UNDERGROUND PLUMBING PLAN - AREA B  
1/8" = 1'-0"

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
21.01	FIRE SPRINKLER SERVICE UP. SIZE AND DESIGN BY FIRE SPRINKLER ENGINEER.
21.05	FIRE SPRINKLER LINE TO POST MOUNTED FIRE DEPARTMENT CONNECTION. COORDINATE WITH FIRE SPRINKLER CONTRACTOR.
22.01	4" WASTE UP TO FINISH FLOOR CLEANOUT.
22.02	2" TRAPPED WASTE UP TO FLOOR DRAIN.
22.03	1.5" VENT UP.
22.04	2" WASTE UP TO SINK.
22.05	4" WASTE UP TO FINISH GRADE CLEANOUT.
22.06	4" WASTE UP TO WATER CLOSET.
22.09	2" WASTE UP TO LAVATORY.
22.11	REFER TO CIVIL PLAN FOR CONTINUATION.
22.13	8" ROOF DRAIN LEADER UP. COORDINATE WITH STRUCTURAL FOOTING.
22.14	2" WATER SERVICE UP.
22.15	NATURAL GAS SERVICE UP. COORDINATE WITH UTILITY COMPANY.
22.16	2" WASTE UP TO DRINKING FOUNTAIN.
22.63	6" WASTE RISER UP TO SAMPLING PORT. REFER TO DETAIL 2/P300.
22.76	REFER TO LANDSCAPE PLAN FOR CONTINUATION.
22.77	1.5" IRRIGATION SERVICE UP BY LANDSCAPE SPRINKLER CONTRACTOR.

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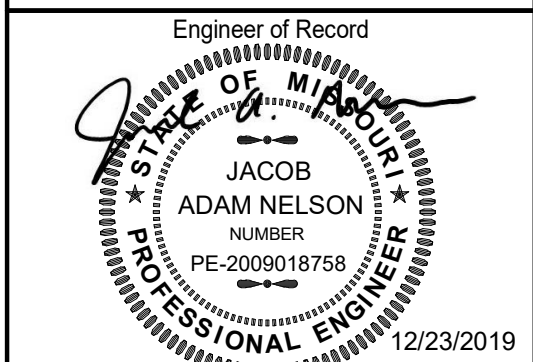
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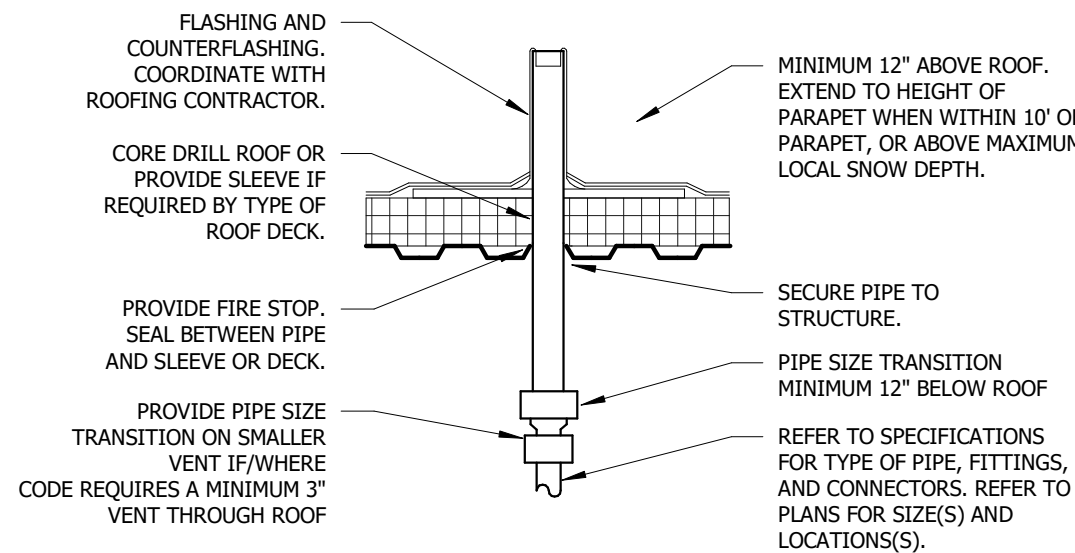
True Engineering Group LLC Missouri State Certificate of Authority #E-2016000752		
Revision No.	Description	Date
4	SI #02	03-13-2020
5	SI #03	03-26-2020

Project No.	Date	Drawn
WP10	12/23/2019	AH

Drawing No.

P101  
UNDERGROUND PLUMBING  
PLAN - AREA B

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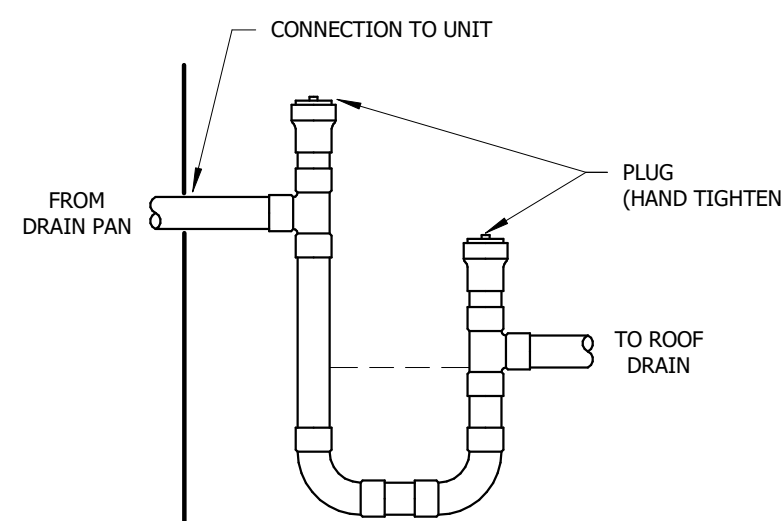


NOTES:

1. MAINTAIN 10 FOOT CLEARANCE FORM OUTSIDE AIR INTAKES.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION AND/OR FLASHING REQUIREMENTS.
3. COORDINATE LOCATION OF VENT THROUGH ROOF LOCATION WITH ARCHITECT.

8 VENT THROUGH ROOF

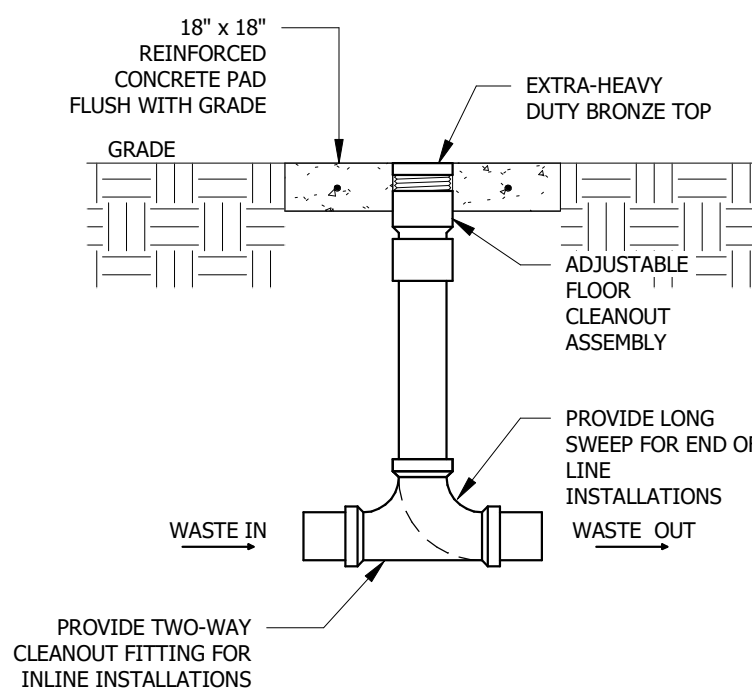
NOT TO SCALE



H = FAN INLET PRESSURE (IN. W.C.) + 1"

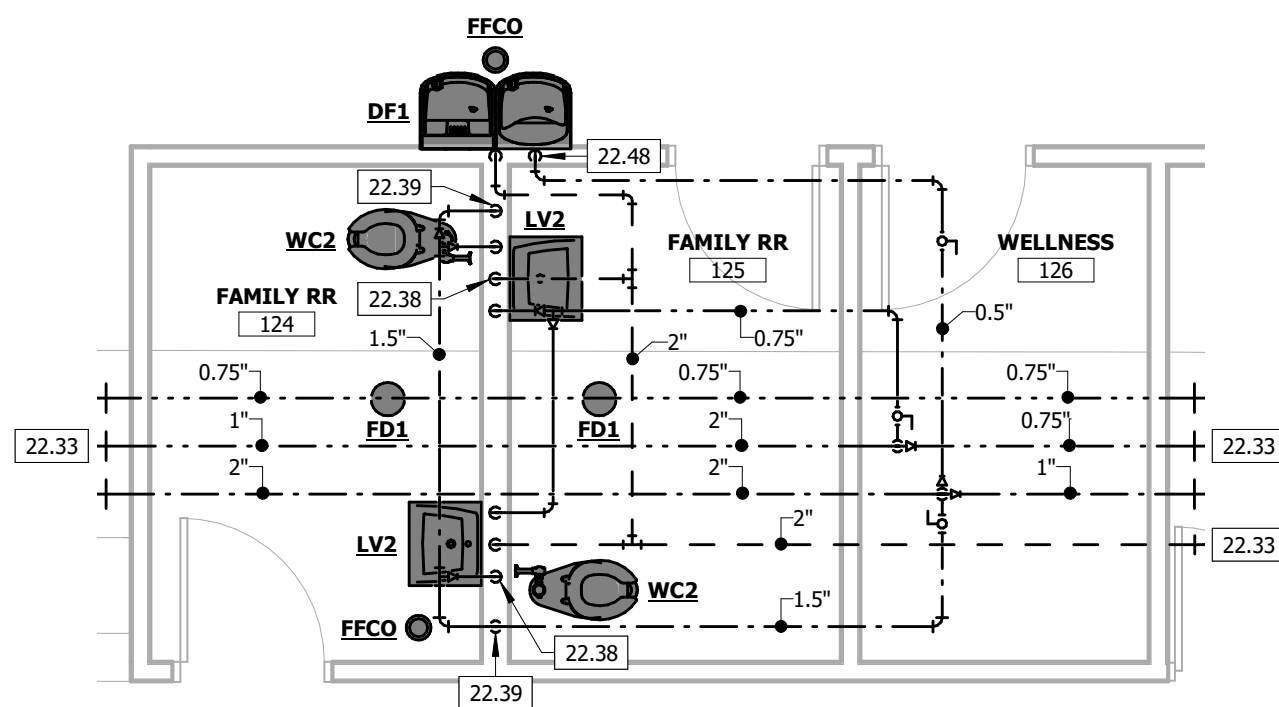
7 CONDENSATE DRAIN CONNECTION

NOT TO SCALE



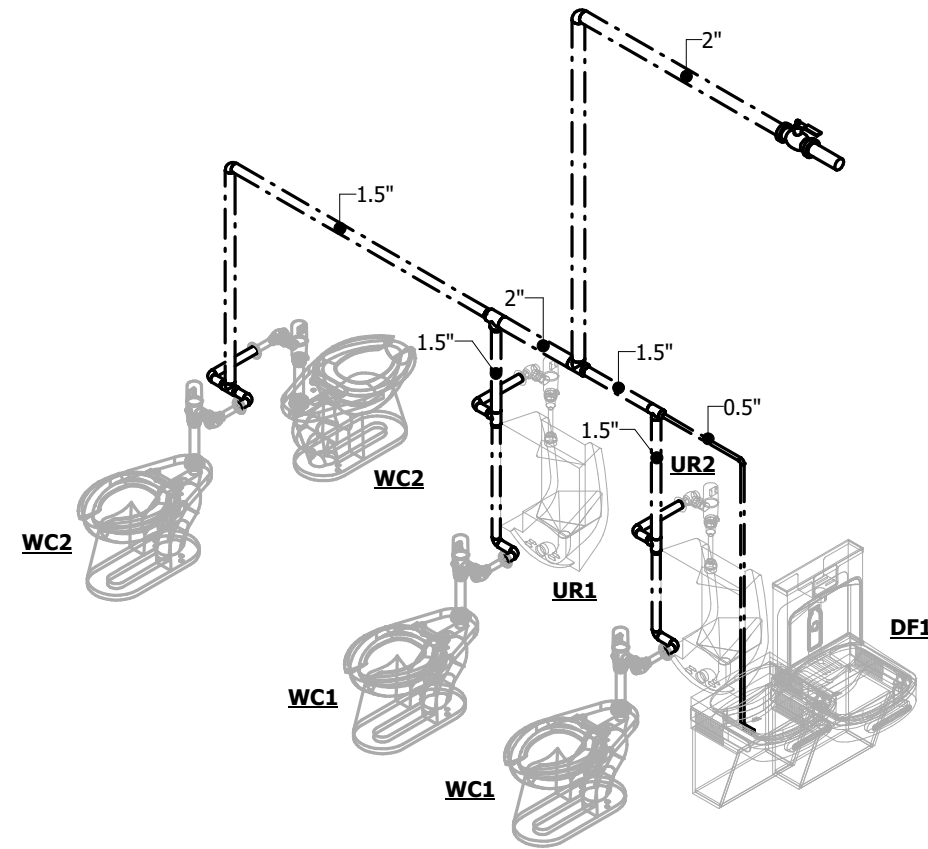
6 FINISH GRADE CLEANOUT

NOT TO SCALE



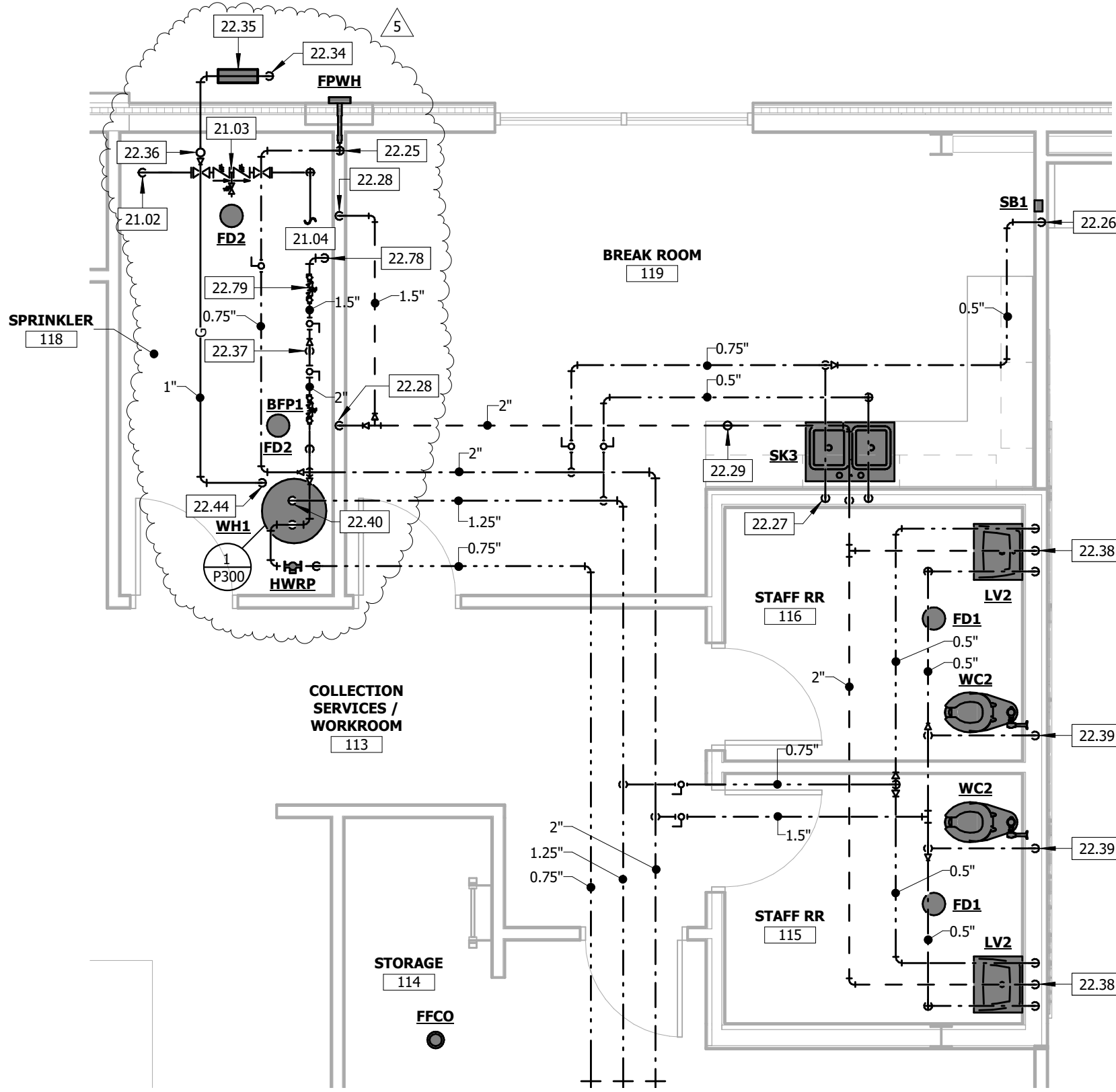
5 ENLARGED PLUMBING PLAN - FAMILY RESTROOM

1/4" = 1'-0"



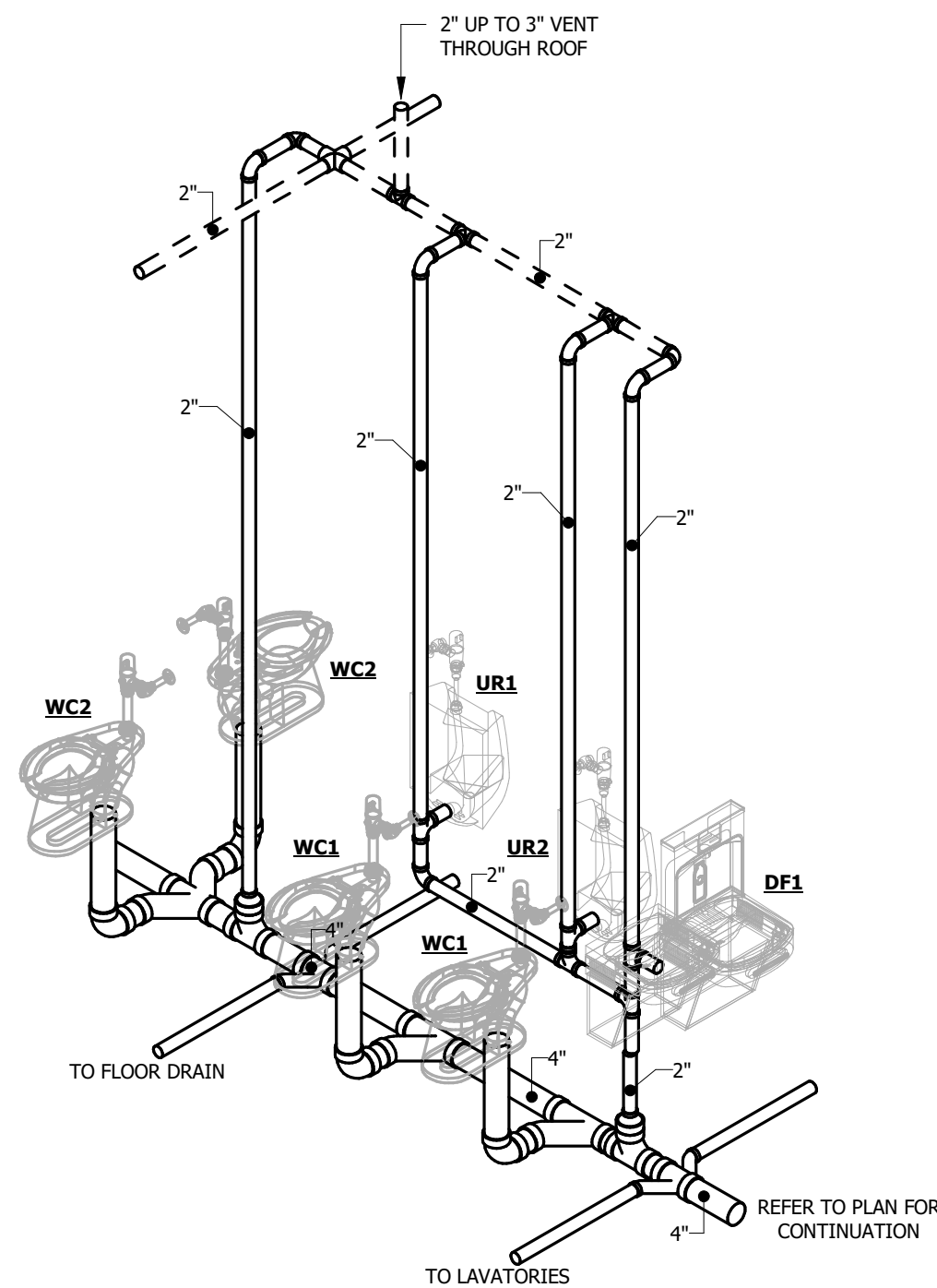
4 DOMESTIC WATER ISOMETRIC

NOT TO SCALE



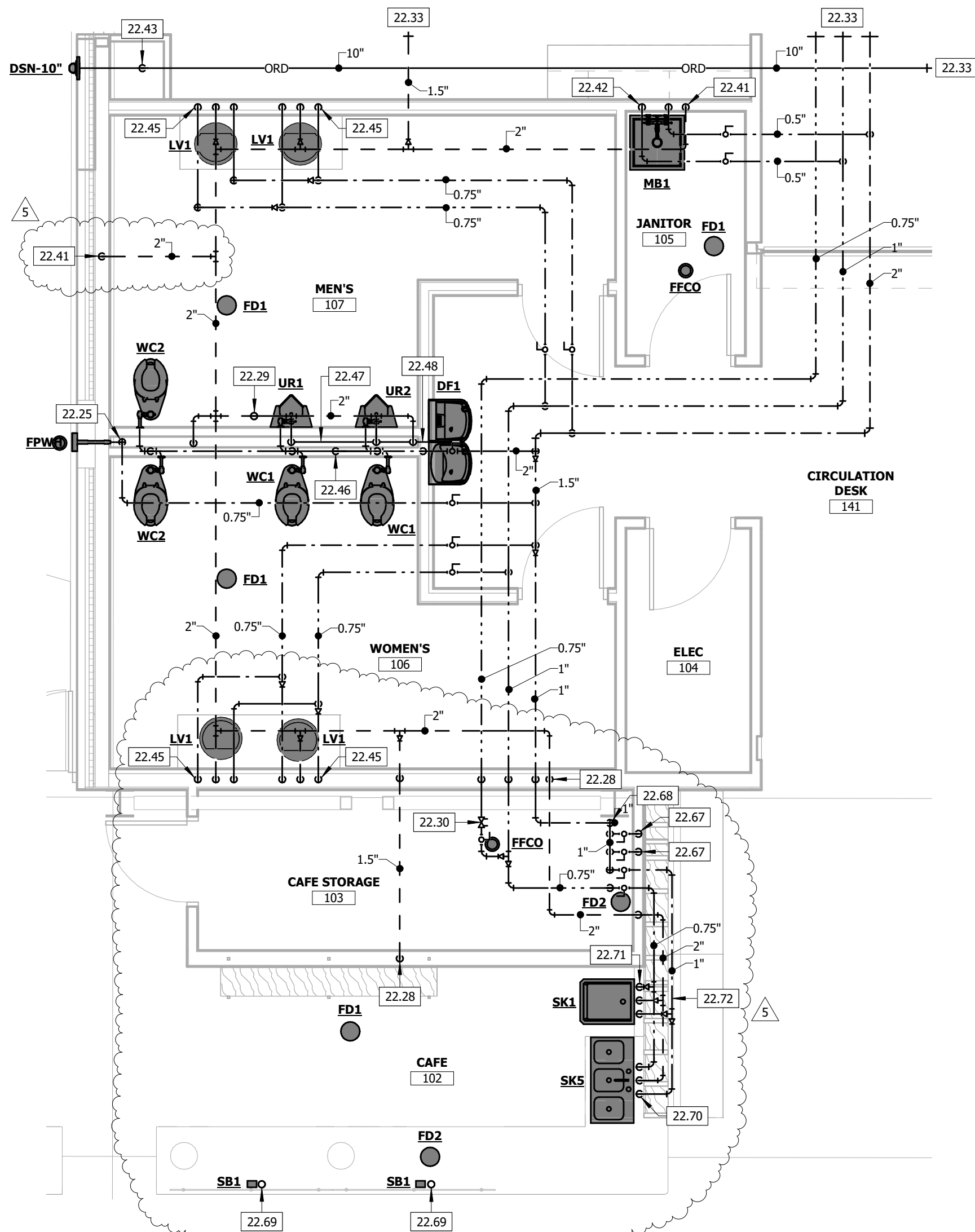
3 ENLARGED PLUMBING PLAN - STAFF AREA

1/4" = 1'-0"



2 WASTE AND VENT ISOMETRIC

NOT TO SCALE



1 ENLARGED PLUMBING PLAN - RESTROOM AND CAFE

1/4" = 1'-0"



KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
21.02	FIRE SPRINKLER SERVICE DOWN. SIZE AND DESIGN BY FIRE SPRINKLER ENGINEER.
21.03	FIRE SPRINKLER MANIFOLD WITH PREACTION (DOUBLE INTERLOCKED) DELUGE VALVE AND ASSOCIATED TRIM. SIZE AND DESIGN BY FIRE SPRINKLER ENGINEER.
21.04	ROUTE FIRE SPRINKLER SYSTEM THROUGHOUT BUILDING. SIZE AND DESIGN BY FIRE SPRINKLER ENGINEER.
22.25	0.75\"/>

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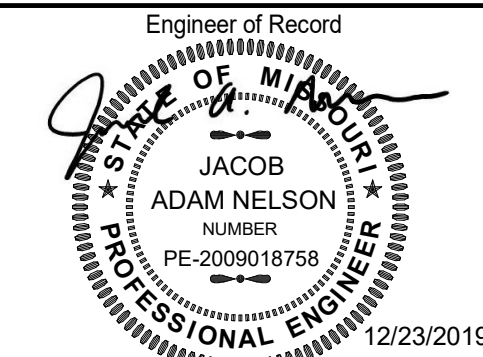
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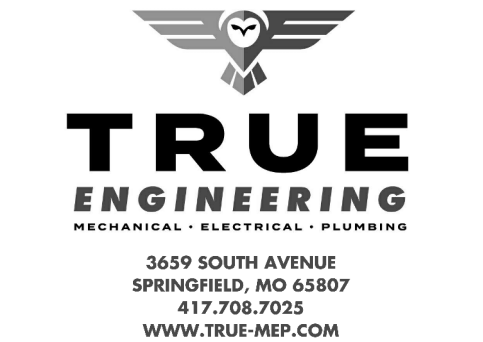
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Revision No.	Description	Date
5	SI #03	03-26-2020

Project No.	Date	Drawn
WP10	12/23/2019	AH

Drawing No.  
**P200**  
PLUMBING DETAILS

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Missouri State Certificate of Authority #

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12/23/2019

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Revision No. Description Date

5 SI #03 03-26-2020

Project No. Date Drawn

WP10 12/23/2019 AH

Drawing No.

P300  
PLUMBING SCHEDULES

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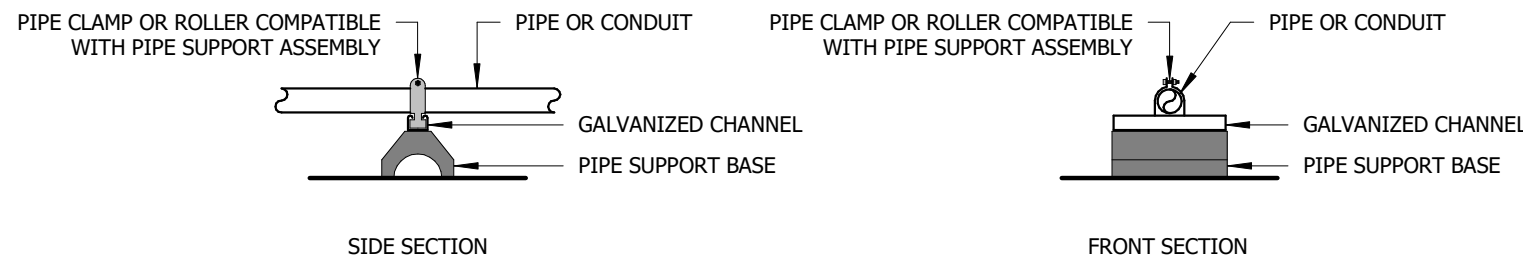
PIPING MATERIAL SCHEDULE														
NOTES:														
1. THE USE OF CELLULAR CORE PVC WASTE AND VENT PIPING IS STRICTLY PROHIBITED.														
2. REFER TO SPECIFICATION SECTION 220719 FOR ADDITIONAL INSULATION REQUIREMENTS.														
3. REFER TO SPECIFICATION SECTIONS 220719, 221113, 221316, AND 231123 FOR ADDITIONAL PIPING REQUIREMENTS.														
4. PER NFPA 13 AND NFPA 24.														
SYSTEM TYPE	SIZE	TYPE	PIPING SCHEDULE	ASTM	MATERIAL	MATERIAL	TYPE	MAXIMUM WORKING PRESSURE (PSI)	TEMP (DEG F)	FIELD TEST PRESSURE (PSI)	TIME (HOURS)	INSULATION TYPE	THICKNESS (IN)	NOTES
Condensate Drain	ALL	DWV	40	2665	PVC	PVC	SOLVENT WELD	10 FT	40-140	10 FT	1	-	-	-
Domestic Cold Water	ALL	L	-	888	COPPER	COPPER	SOLDER JOINT	120	40-180	150	4	ARMAFLEX ELASTOMERIC	1"	2,3
Domestic Hot Water	ALL	L	-	888	COPPER	COPPER	SOLDER JOINT	120	40-180	150	4	ARMAFLEX ELASTOMERIC	1"	2,3
Domestic Recirculating Hot Water	ALL	L	-	888	COPPER	COPPER	SOLDER JOINT	120	40-180	150	4	ARMAFLEX ELASTOMERIC	1"	2,3
Fire Protection Service	ALL	-	-	-	-	-	-	-	-	-	-	-	-	4
Natural Gas	0.5" - 2.5"	ERW	40	A53	CARBON STEEL	CARBON STEEL	THREADED	5	-	150	4	-	-	3
Sanitary	ALL	DWV	40	2665	PVC	PVC	SOLVENT WELD	10 FT	40-140	10 FT	4	-	-	1,3
Storm Drain	ALL	DWV	40	2665	PVC	PVC	SOLVENT WELD	10 FT	40-140	10 FT	4	ARMAFLEX ELASTOMERIC	1"	1,2,3
Vent	ALL	DWV	40	2665	PVC	PVC	SOLVENT WELD	10 FT	40-140	10 FT	4	-	-	1,3

WATER HEATER SCHEDULE								
NOTES:								
1. PROVIDE THERMAL EXPANSION TANK EQUIVALENT TO AMTROL MODEL ST-5-C.								
2. DRAIN VALVE WITH THREADED HOSE CONNECTION.								
3. PRESSURE & TEMPERATURE RELIEF VALVE.								
4. COMBUSTION INTAKE AND EXHAUST CONCENTRIC VENT TERMINATION KIT.								
TYPE MARK	MANUFACTURER	MODEL NUMBER	GALLONS	GAS INPUT (MBH)	GAS OUTPUT (MBH)	ELEC (KW)	VOLTAGE	NOTES
WH1	BRADFORD WHITE	EF-60T-12SE-3N	60	125	120	-	120/1	1,2,3,4 AO SMITH

BACKFLOW PREVENTER SCHEDULE								
NOTES:								
1. PRESSURE REDUCING VALVE AND STRAINER SHALL BE SAME MANUFACTURER AS BACKFLOW PREVENTER UNLESS OTHERWISE NOTED.								
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADAPTERS BETWEEN PIPE FITTING TYPES.								
3. PROVIDE SHUT-OFF VALVE UPSTREAM OF BACKFLOW PREVENTER ASSEMBLY AND ACCESSORIES.								
TYPE MARK	MANUFACTURER	MODEL	SIZE	PRV MODEL	PRV PRESSURE	STRAINER MODEL	NOTES	EQUIVALENTS
BFP1	ZURN	575XL	2"	500XL	75 PSI	SXL	1,2,3	WATTS

PLUMBING FIXTURE SCHEDULE												
NOTES:												
1. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.												
2. ALL COLORS AND FINISHES SELECTED BY ARCHITECT.												
3. INSTALL ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR ADA COMPLIANCE.												
4. PROVIDE 17 GAUGE CHROME PLATED BRASS WASTE, TAILPIECE AND P-TRAP. PROVIDE PLATED ESCUTCHEONS AT WALL PENETRATIONS.												
5. PROVIDE TRUEBRO HANDI-LAV-GUARD INSULATION KIT WHERE EXPOSED. COLOR SHALL BE SELECTED BY THE ARCHITECT.												
6. PROVIDE SHOCK ABSORBER FOR ALL INDIVIDUAL FIXTURES OR BATTERIES. SIZE UNITS SERVING FIXTURE BATTERIES PER MANUFACTURER.												
7. COORDINATE ELECTRICAL CONNECTION AND REQUIREMENTS WITH ELECTRICAL CONTRACTOR.												
8. REFER TO ARCHITECTURAL ACCESSIBLE URINAL DETAIL 1/G101 FOR INSTALLATION HEIGHT.												
9. EQUIVALENT FAUCET AND/OR FLUSH VALVE MANUFACTURERES WILL NOT BE ACCEPTED.												
TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	ACCESSORIES		CW SIZE	HW SIZE	WASTE	VENT	NOTES	EQUIVALENTS	
DF1	DRINKING FOUNTAIN	ELKAY	LZSTL8WSSK	BI-LEVEL, BOTTLE FILLING STATION, SAFETY BUBBLER, ADA COMPLIANT, ZURN Z1225-BL CARRIER, QUARTER TURN STOP		0.5"	-	2"	1.5"	1,2,3,4	HAWES, OASIS	
DSN-6"	DOWNSPOUT NOZZLE	ZURN	Z199	-		-	-	6"	-	1,2	JOSAM, WADE	
DSN-8"	DOWNSPOUT NOZZLE	ZURN	Z199	-		-	-	8"	-	1,2	JOSAM, WADE	
DSN-10"	DOWNSPOUT NOZZLE	ZURN	Z199	-		-	-	10"	-	1,2	JOSAM, WADE	
FD1	FLOOR DRAIN	ZURN	Z415B	NICKEL BRONZE TOP, PROSET TRAP GUARD		-	-	2"	1.5"	-	JOSAM, WADE	
FD2	FLOOR DRAIN	ZURN	Z415I	NICKEL BRONZE TOP WITH RAISED FLANGE, PROSET TRAP GUARD		-	-	2"	1.5"	-	JOSAM, WADE	
FFCO	FINISH FLOOR CLEANOUT	ZURN	Z1400	NICKEL BRONZE TOP		-	-	SEE PLAN	-	-	JOSAM, WADE	
FGCO	FINISH GRADE CLEANOUT	ZURN	Z51400	STAINLESS STEEL EXTRA HEAVY DUTY TOP		-	-	SEE PLAN	-	-	JOSAM, WADE	
FRPH	FREEZE PROOF ROOF HYDRANT	WOODFORD	RHY1-MS	FREEZELESS, CAST IRON MOUNTING SYSTEM, DRAIN CONNECTION		1"	-	0.125"	-	-	ZURN	
FPWH	FREEZE PROOF WALL HYDRANT	WOODFORD	B65	FREEZELESS, AUTOMATIC DRAINING, ANTI-SIPHON, BOX/DOOR ASSEMBLY		0.75"	-	-	-	1,2	ZURN	
GI1	GREASE INTERCEPTOR	SCHIER	GB-75	TRAFFIC RATED COMPOSITE COVER, RISERS AS REQUIRED FOR INSTALLATION		-	-	3"	-	-	ROCKFORD, GREEN TURTLE	
LV1	COUNTERTOP LAVATORY	KOHLER	K-2882	ZURN Z6915-XL FAUCET, 1.0 GPM, VANDAL RESISTANT, LAMINAR FLOW, HARDWIRED, GRID STRAINER, QUARTER TURN STOPS, WATTS FLUSG-B MIXING VALVE		0.5"	0.5"	2"	1.5"	2,3,4,5,7,9	TOTO, AMERICAN STANDARD	
LV2	WALL HUNG LAVATORY	ZURN	Z5340	ZURN Z6915-XL FAUCET, 1.0 GPM, VANDAL RESISTANT, LAMINAR FLOW, HARDWIRED, GRID STRAINER, QUARTER TURN STOPS, WATTS FLUSG-B MIXING VALVE, ZURN Z1231 CARRIER		0.5"	0.5"	2"	1.5"	1,2,3,4,5,7,9	TOTO, AMERICAN STANDARD	
MB1	MOP BASIN	FIAT	MSB 2424	ZURN Z843M4-XL FAUCET, FIAT 838-AA HOSE AND BRACKET, FIAT 889-CC MOP HANGER, FIAT MSG2424 STAINLESS STEEL WALL GUARD, FIAT E-77-AA VINYL BUMPERGUARD		0.5"	0.5"	3"	1.5"	2	STERN-WILLIAMS	
ORD-6"	OVERFLOW ROOF DRAIN	ZURN	ZC100-W2	CAST IRON DOME, INTERNAL WATER DAM		-	-	6"	-	-	JOSAM, WADE	
ORD-8"	OVERFLOW ROOF DRAIN	ZURN	ZC100-W2	CAST IRON DOME, INTERNAL WATER DAM		-	-	8"	-	-	JOSAM, WADE	
RD-6"	ROOF DRAIN	ZURN	ZC100	CAST IRON DOME		-	-	6"	-	-	JOSAM, WADE	
RD-8"	ROOF DRAIN	ZURN	ZC100	CAST IRON DOME		-	-	8"	-	-	JOSAM, WADE	
SB1	SUPPLY BOX	GUY GRAY	MIB1HAA8	QUARTER TURN VALVE, HAMMER ARRESTER		0.5"	-	-	-	-	OATEY	
SK1	HAND SINK	ADVANCE TABCO	7-PS-46	ADVANCE TABCO EXTENDED SWING FAUCET, QUARTER TURN STOPS, DRAIN KIT, WALL CARRIER, WATTS FLUSG-B MIXING VALVE, ADA COMPLIANT		0.5"	0.5"	2"	1.5"	2,3,4	ELKAY, JUST	
SK2	DOUBLE BOWL SINK	ELKAY	ECTR31179	ELKAY LK5000 FAUCET, IN-SINK-ERATOR EVOLUTION EXCEL 1HP GARBAGE DISPOSAL, QUARTER TURN STOPS, DRAIN KIT, ADA COMPLIANT		0.5"	0.5"	2"	1.5"	2,3,4	JUST, KOHLER	
SK3	DOUBLE BOWL SINK	ELKAY	LRA0331965	ELKAY LK5000 FAUCET, IN-SINK-ERATOR EVOLUTION EXCEL 1HP GARBAGE DISPOSAL, QUARTER TURN STOPS, DRAIN KIT, ADA COMPLIANT		0.5"	0.5"	2"	1.5"	2,3,4	JUST, KOHLER	
SK4	DOUBLE BOWL SINK	ELKAY	LRA0331965	ELKAY LK5000 FAUCET, QUARTER TURN STOPS, DRAIN KIT, ADA COMPLIANT		0.5"	0.5"	2"	1.5"	2,3,4	JUST, KOHLER	
SK5	THREE COMPARTMENT SINK	ADVANCE TABCO	DE-3-10	ADVANCE TABCO K-50 FAUCET(S), IN-SINK-ERATOR EVOLUTION EXCEL 1HP GARBAGE DISPOSAL WITH DISHWASHER DRAIN CONNECTION, QUARTER TURN STOPS, DRAIN KIT(S)		0.5"	0.5"	2"	1.5"	2,4	ELKAY, JUST	
SP	SAMPLING PORT	DEETER	1813	6" PVC RISER		-	-	SEE PLAN	-	-	JOSAM, WADE, ZURN	
UR1	URINAL	ZURN	Z5755-U	SLOAN ECOS 8186-0.125 FLUSH VALVE, 0.125 GALLON PER FLUSH, ZURN Z1222 CARRIER		0.75"	-	2"	1.5"	1,2,3,6,9	TOTO, AMERICAN STANDARD	
UR2	ADA URINAL	ZURN	Z5755-U	SLOAN ECOS 8186-0.125 FLUSH VALVE, 0.125 GALLON PER FLUSH, ZURN Z1222 CARRIER		0.75"	-	2"	1.5"	1,2,3,6,8,9	TOTO, AMERICAN STANDARD	
WC1	WATER CLOSET	ZURN	5655-BWL1	SLOAN ECOS 8111-1.6/1.1 (3379400) DUAL FLUSH VALVE, 1.6/1.1 GALLON PER FLUSH, OPEN FRONT COMMERCIAL SEAT		1.25"	-	4"	2"	2,6,9	TOTO, AMERICAN STANDARD	
WC2	ADA WATER CLOSET	ZURN	Z5655-BWL1	SLOAN ECOS 8111-1.6/1.1 (3379400) DUAL FLUSH VALVE, 1.6/1.1 GALLON PER FLUSH, OPEN FRONT COMMERCIAL SEAT, ADA COMPLIANT		1.25"	-	4"	2"	2,3,6,9	TOTO, AMERICAN STANDARD	

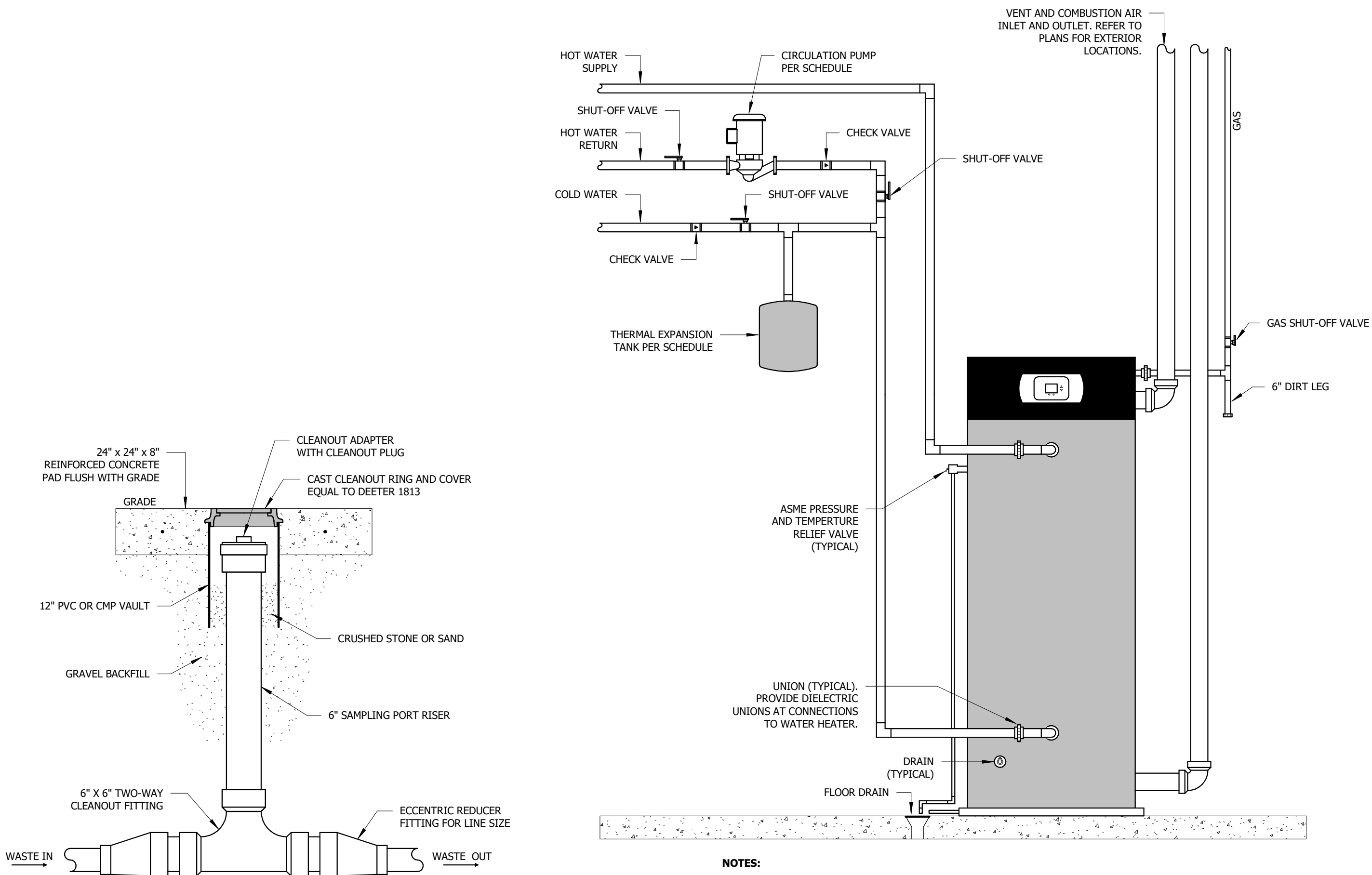
PLUMBING PUMP SCHEDULE														
NOTES:														
1. PROVIDE CONTACTOR/RELAY FOR PUMP CONTROL BY BUILDING AUTOMATION SYSTEM. COORDINATE REQUIREMENTS WITH BAS CONTRACTOR.														
2. COORDINATE ELECTRICAL CONNECTION WITH ELECTRICAL CONTRACTOR.														
3. BEARINGS ARE TO BE LUBRICATED BY THE CIRCULATING FLUID.														
TYPE MARK	MANUFACTURER	SERIES	INLET SIZE	DISCHARGE SIZE	GPM	PUMP HEAD (FT)	MOTOR HP (WATTS)	RPM	CONSTRUCTION	FLUID TYPE	FLUID TEMP	VOLTAGE	NOTES	EQUIVALENTS
HWRP	TACO	006	0.75"	0.75"	3	7 FT	60 W	3250	BRONZE	DOMESTIC HOT WATER	140 F	120/1	1,2,3	BELL & GOSSETT



- NOTES:
- PIPE SUPPORT ASSEMBLY SHALL BE ADEQUATELY SIZED PER MANUFACTURES REQUIREMENTS.
  - PIPE SUPPORT SHALL BE INSTALLED IN ACCORDANCE WITH ROOFING MANUFACTURES REQUIREMENTS TO MAINTAIN ROOFING WARRANTY.
  - PROVIDE ALL NECESSARY PIPE SUPPORT ASSEMBLY ACCESSORIES FOR PROPER PIPE INSTALLATION SUCH AS SLOPING AND ELEVATING TO CLEAR OBSTRUCTIONS.
  - SPACE PIPE SUPPORTS IN ACCORDANCE WITH APPLICABLE CODES INCLUDING IPC, IFGC, IMC, AND NEC.
  - PIPE SUPPORT ASSEMBLY SHALL BE EATON B-LINE SERIES WITH DURA-BLOK SUPPORT BASES OR APPROVED EQUAL. PLASTIC SUPPORTS WILL NOT BE ACCEPTED.

## 3 ROOF SUPPORT

NOT TO SCALE



- NOTES:
- INSTALL SAMPLING PORT IN ACCORDANCE WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. CONTACT ENGINEER IF REQUIREMENTS OF AUTHORITY HAVING JURISDICTION DIFFERS FROM DETAIL SHOWN ABOVE.
  - REFER TO PLUMBING DRAWINGS FOR LINE SIZE.

## 2 SAMPLING PORT

NOT TO SCALE

## 1 GAS WATER HEATER

NOT TO SCALE