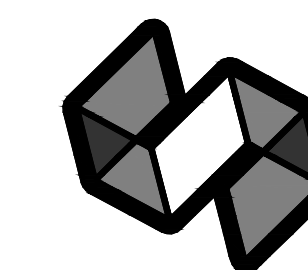




# ALLIANT ENERGY CENTER PAVILIONS

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713



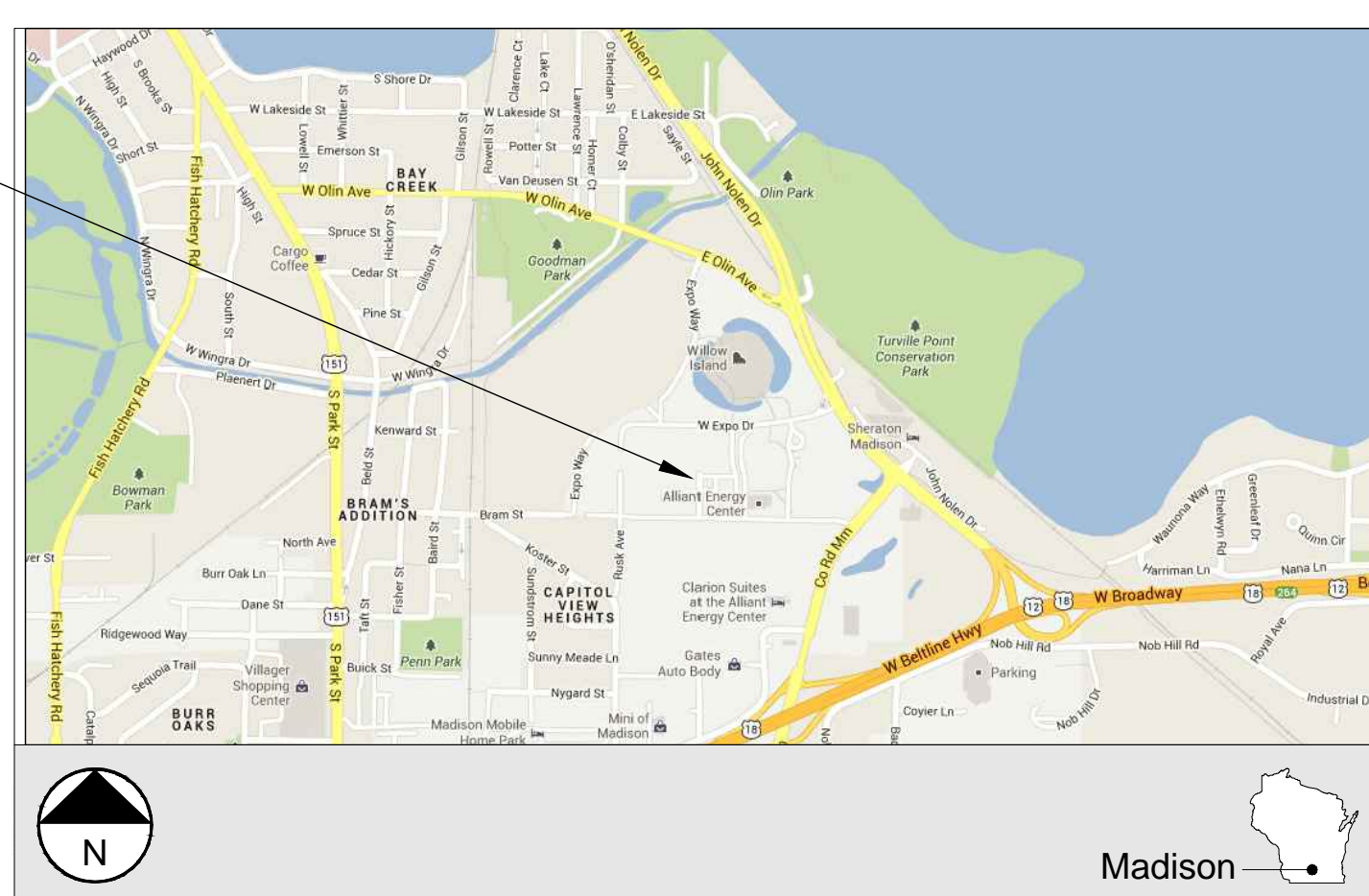
STRANG

County Bid No.:313072 - REBID

Strang Project No.: 2013027\_02

CONSTRUCTION DOCUMENTS

## Site Location Map



## Design Team

Architectural Design  
**STRANG, INC.**

Structural Design  
**ARNOLD & O'SHERIDAN**

Civil Design/ Site Design  
**SAA DESIGN GROUP, INC.**

Plumbing Design  
**STRANG, INC.**

Mechanical Design  
**STRANG, INC.**

Electrical Design  
**STRANG, INC.**

## Sheet Index

## Project Image



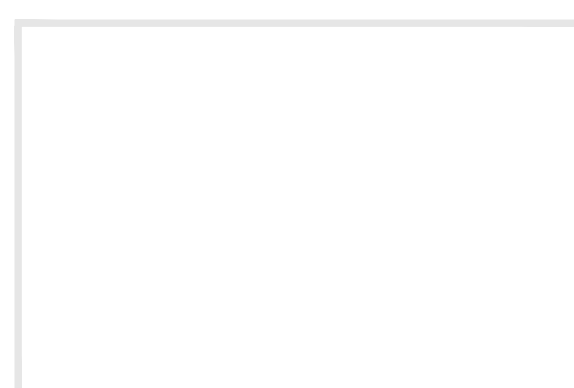
Note: Artistic Rendering (Not for takeoffs or bidding)

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

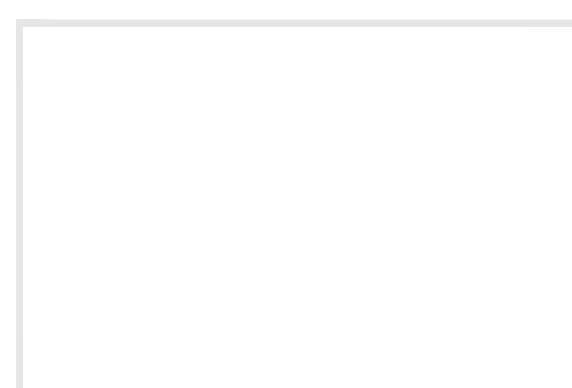
STRANG INC.  
6411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

## Stamps

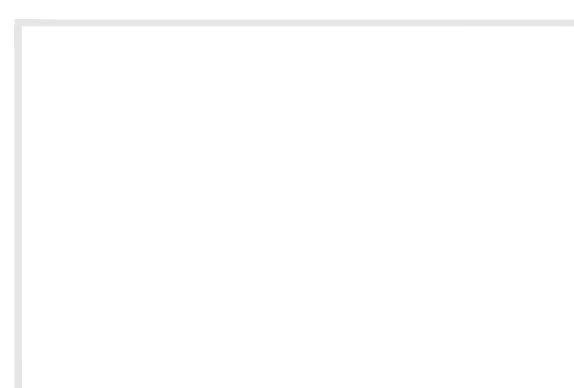
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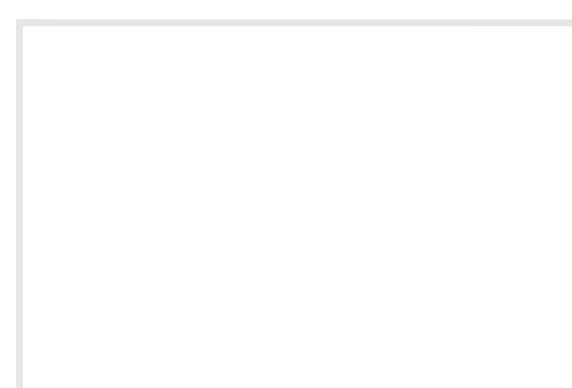
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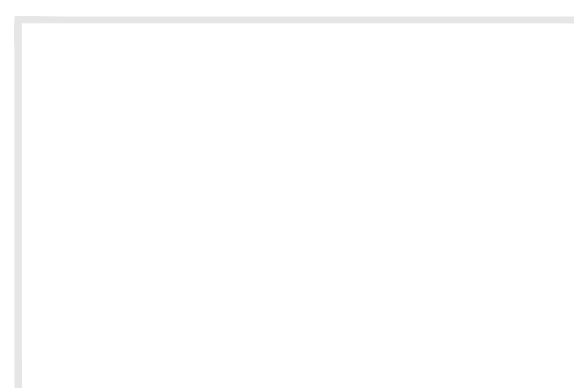
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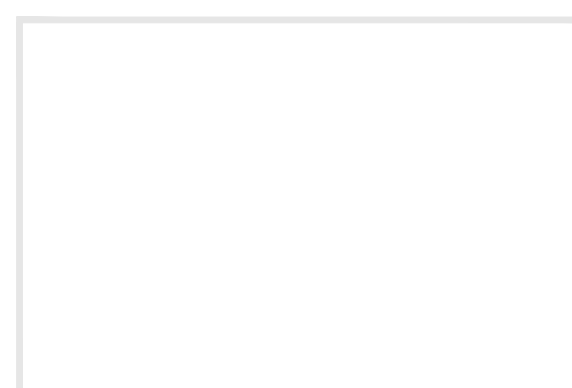
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### Structural



### Electrical



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C101 EXISTING CONDITIONS ENLARGEMENT  
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E504 PANELBOARD SCHEDULES  
E505 ELECTRICAL SCHEDULES  
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E601 ELECTRICAL ONE-LINE DIAGRAM

DRAWING SET CD

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FILE NAME 2013027\_02-TS02.DWG

REVISIONS

DRAWN JB

CHECKED RG

DATE 10-29-13

PROJECT NO. 2013027\_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

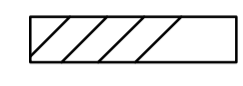
SHEET TITLE

TITLE SHEET -  
VOLUME TWO

SHEET NO.

TS02

**FIRE PROTECTION NOTES**

LIGHT HAZARD  
FIRE PROTECTION REQUIREMENTS 

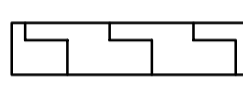
NOTE:  
AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "LIGHT HAZARD" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR OFFICE AND MEETING ROOM AREAS)

WET PIPE SYSTEM

1. LIGHT HAZARD PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 225 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A WET PIPE SYSTEM.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS.
5. SPRINKLERS IN OFFICE AND SUPPORT SPACES WITH A TEMPERATURE RATING OF 165°F, DENSITY OF 0.10 GPM/SQ.FT.
6. SPRINKLER HEADS TO BE CONCEALED WITH WHITE COVER PLATE IN FINISHED SPACES. UPRIGHT BRASS IN UNFINISHED SPACES, AND PAINTED IN TO MATCH CEILING IN SANCTUARY AREA.

REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

**FIRE PROTECTION NOTES**

ORDINARY HAZARD GROUP 2  
FIRE PROTECTION REQUIREMENTS 

NOTE:  
AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "ORDINARY HAZARD - GROUP 2" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR STORAGE AND MECHANICAL AREAS)

WET PIPE SYSTEM

1. ORDINARY HAZARD GROUP 2 PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 130 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A WET PIPE SYSTEM W/ ELECTRONIC CONTROLS.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS.
5. SPRINKLER HEADS IN FINISHED CEILING AREAS TO BE CONCEALED W/ WHITE FINISHED PLATE. HEADS UNFINISHED AREAS TO BE UPRIGHT BRASS (MATCH EXISTING).

NOTE: REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

DRAWINGS SHALL BE REVIEWED AND STAMPED BY A/E PRIOR TO STATE OF ANY NEW WORK. APPROVED PLANS SHALL BE SENT TO ARCHITECT.

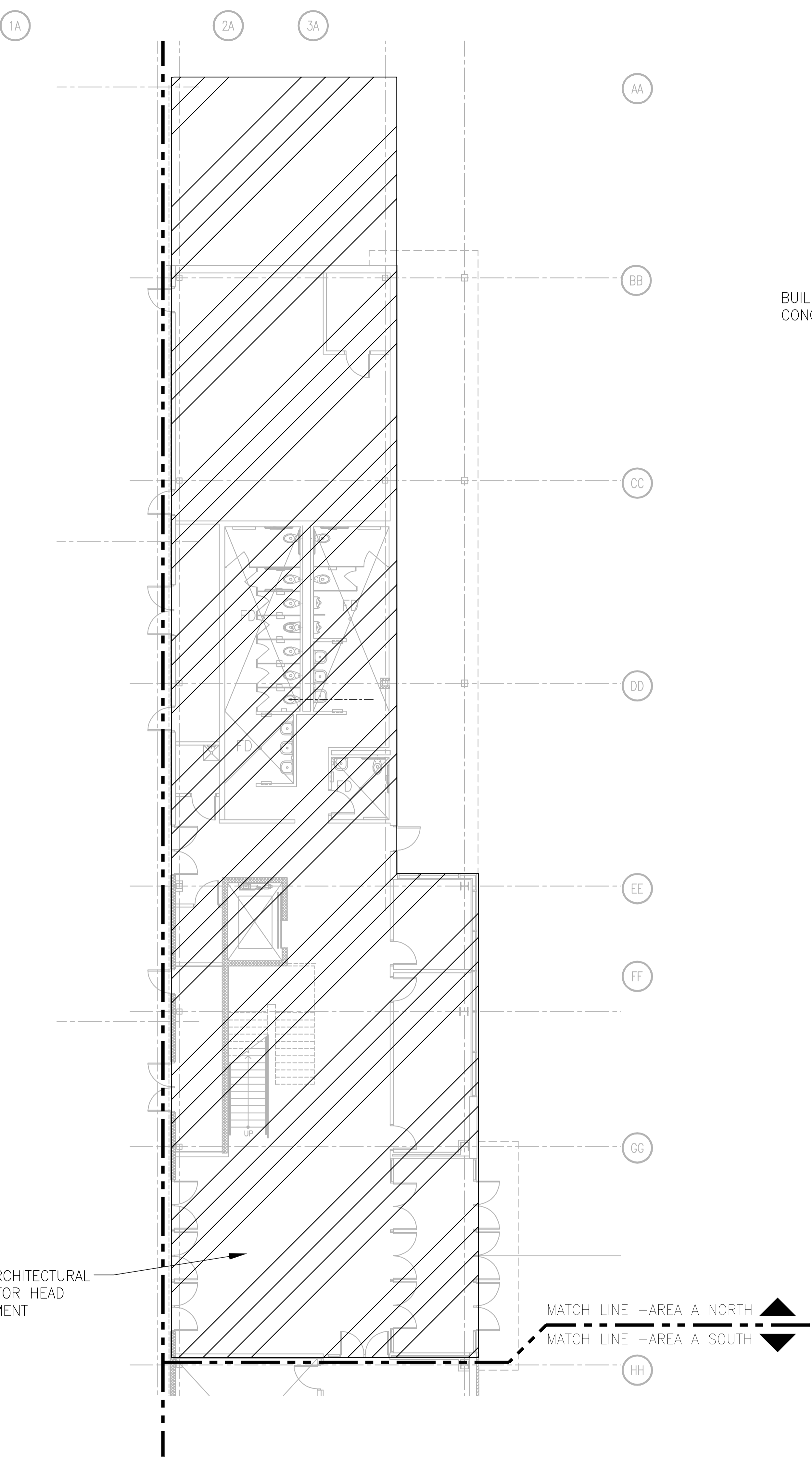
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ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

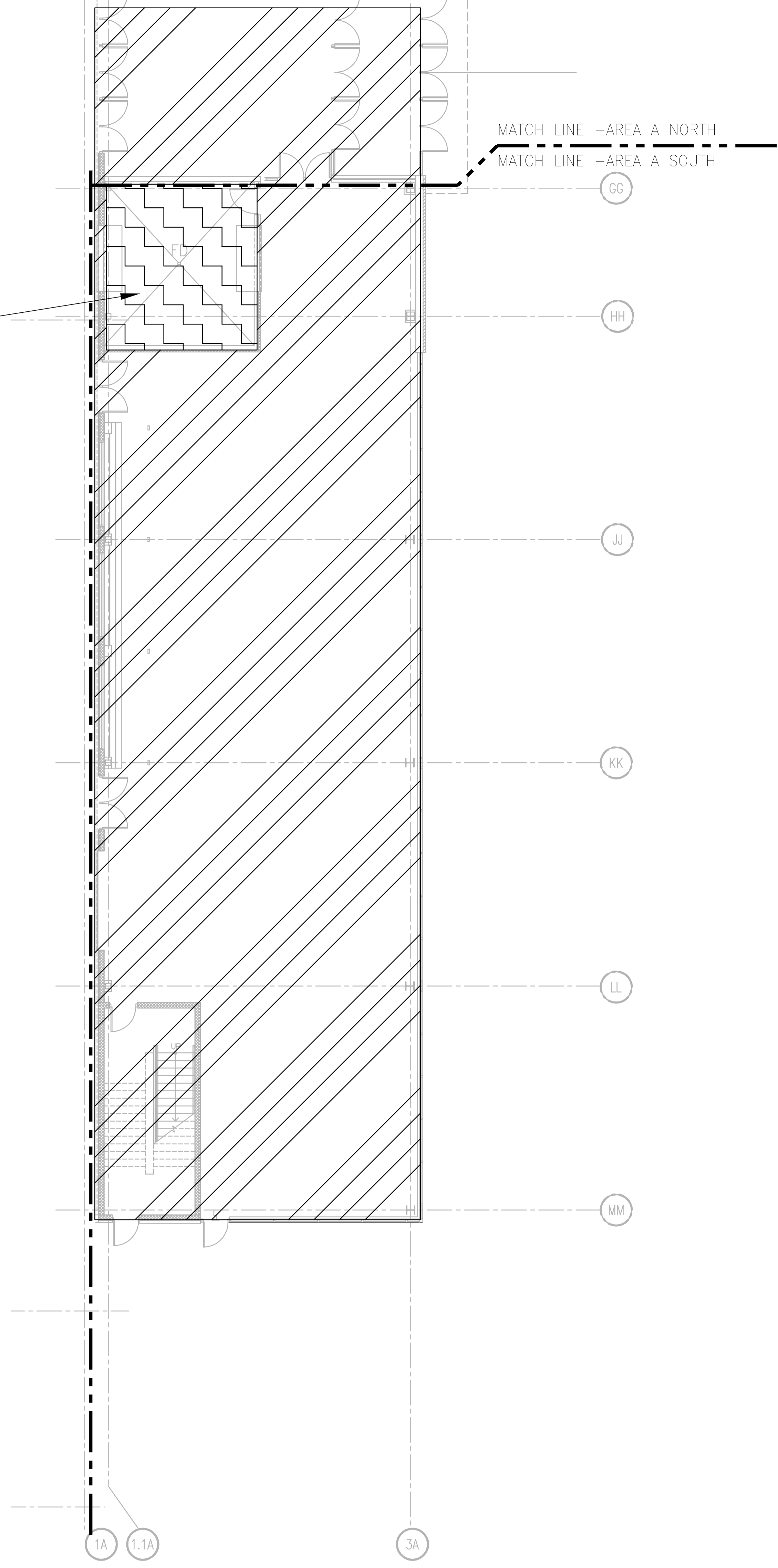
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR  
FIRE PROTECTION  
PLAN AREA A - BLD 1**

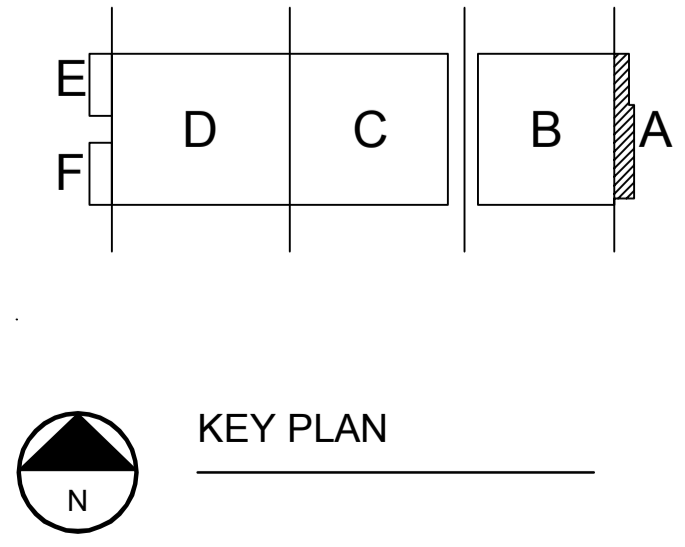
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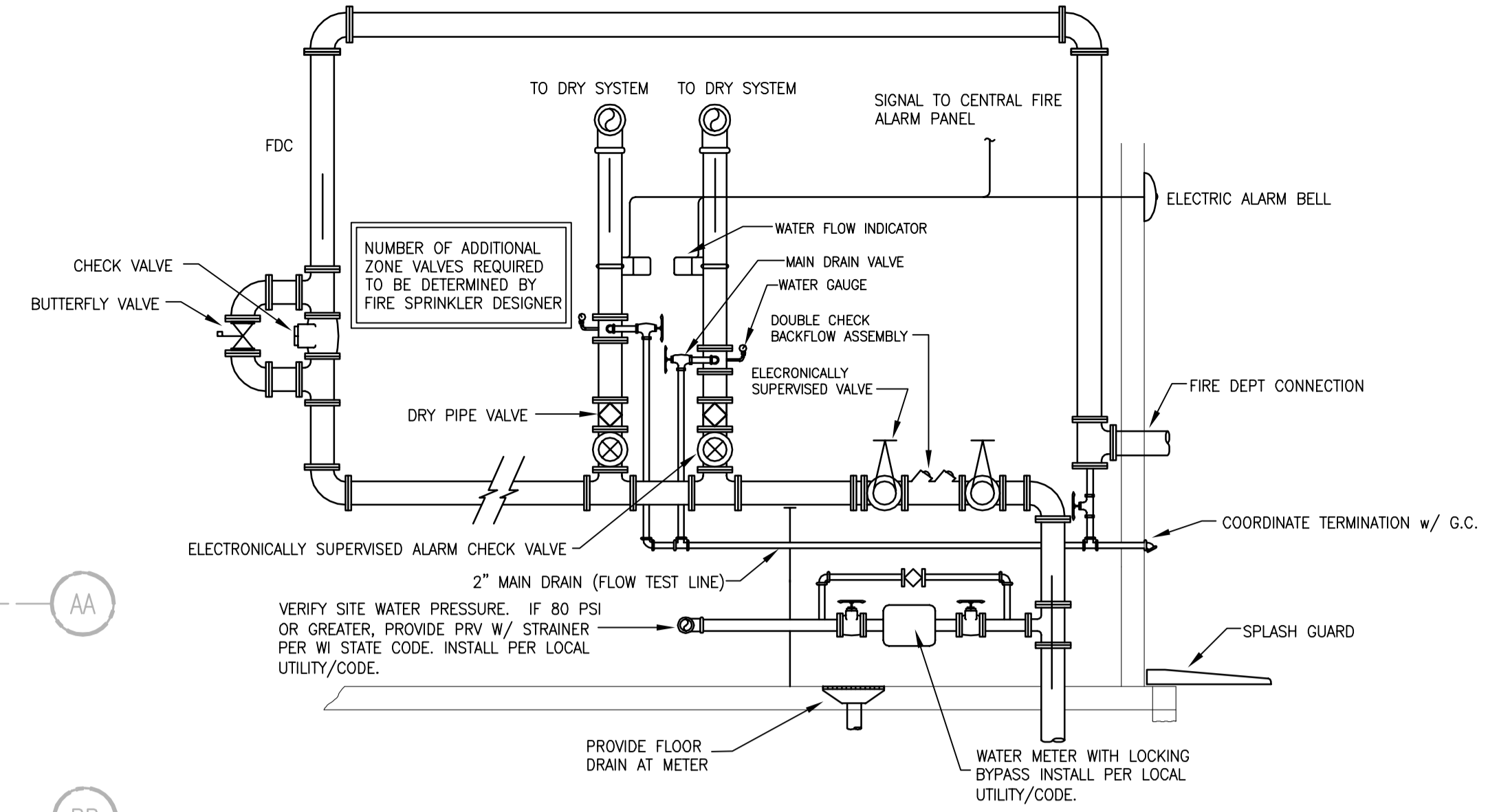
**FIRST FLOOR FIRE PROTECTION PLAN - AREA A NORTH**  
SCALE: 1/8" = 1'-0"



**FIRST FLOOR FIRE PROTECTION PLAN - AREA A SOUTH**  
SCALE: 1/8" = 1'-0"



CARLOS BUZ 2008-6-30 2:27 PM A:\\_2013027\_02-FP201A.DWG - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION 2013027\_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALL DRAWINGS 2013027\_02-FP201A.DWG



2 RISER DETAIL  
FP201B SCALE: NONE

**FIRE PROTECTION NOTES**

NOTE:  
AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "LIGHT HAZARD" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR OFFICE AND MEETING ROOM AREAS)

WET PIPE SYSTEM

1. LIGHT HAZARD PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 225 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A WET PIPE SYSTEM.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS
5. SPRINKLERS IN OFFICE AND SUPPORT SPACES WITH A TEMPERATURE RATING OF 165°F, DENSITY OF 0.10 GPM/SQ.FT.
6. SPRINKLER HEADS TO BE CONCEALED WITH WHITE COVER PLATE. HEADS IN FINISHED SPACES, UPRIGHT BRASS IN UNFINISHED SPACES, AND PAINTED IN TO MATCH CEILING IN SANCTUARY AREA.

NOTE: REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

**FIRE PROTECTION NOTES**

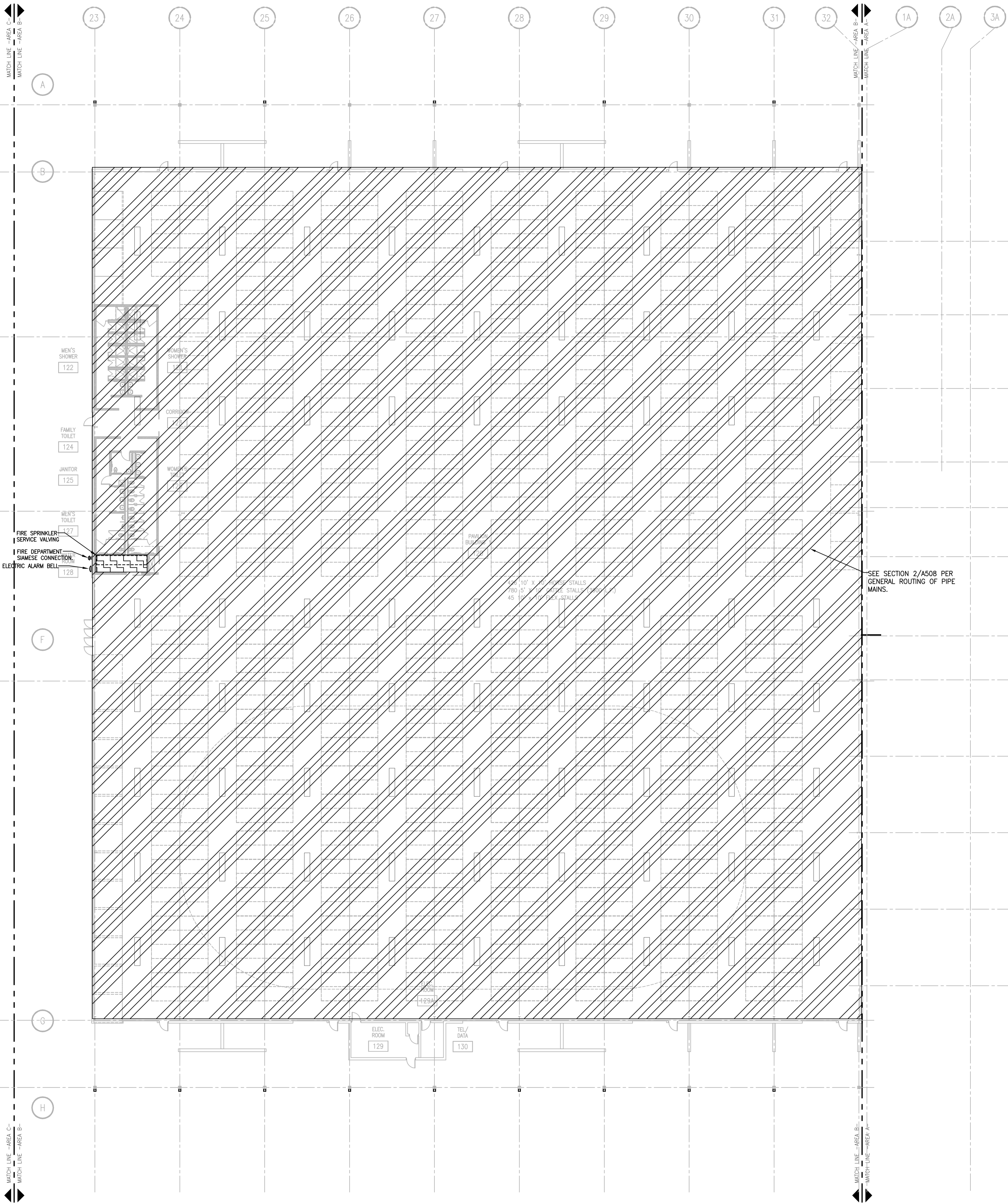
NOTE:  
AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "ORDINARY HAZARD - GROUP 2" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR STORAGE AND MECHANICAL AREAS)

WET PIPE SYSTEM

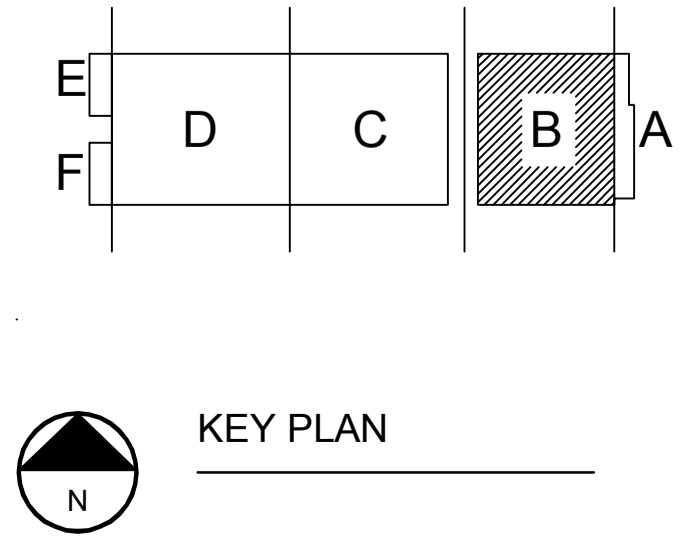
1. ORDINARY HAZARD GROUP 2 PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 130 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A WET PIPE SYSTEM W/ ELECTRONIC CONTROLS.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS
5. SPRINKLER HEADS IN FINISHED CEILING AREAS TO BE CONCEALED W/ WHITE FINISHED PLATE. HEADS UNFINISHED AREAS TO BE UPRIGHT BRASS (MATCH EXISTING).

NOTE: REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

DRAWINGS SHALL BE REVIEWED AND STAMPED BY A/E PRIOR TO START OF ANY NEW WORK APPROVED PLANS SHALL BE SENT TO ARCHITECT.



FIRST FLOOR FIRE PROTECTION PLAN - AREA B  
SCALE: 1/16" = 1'-0"



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ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

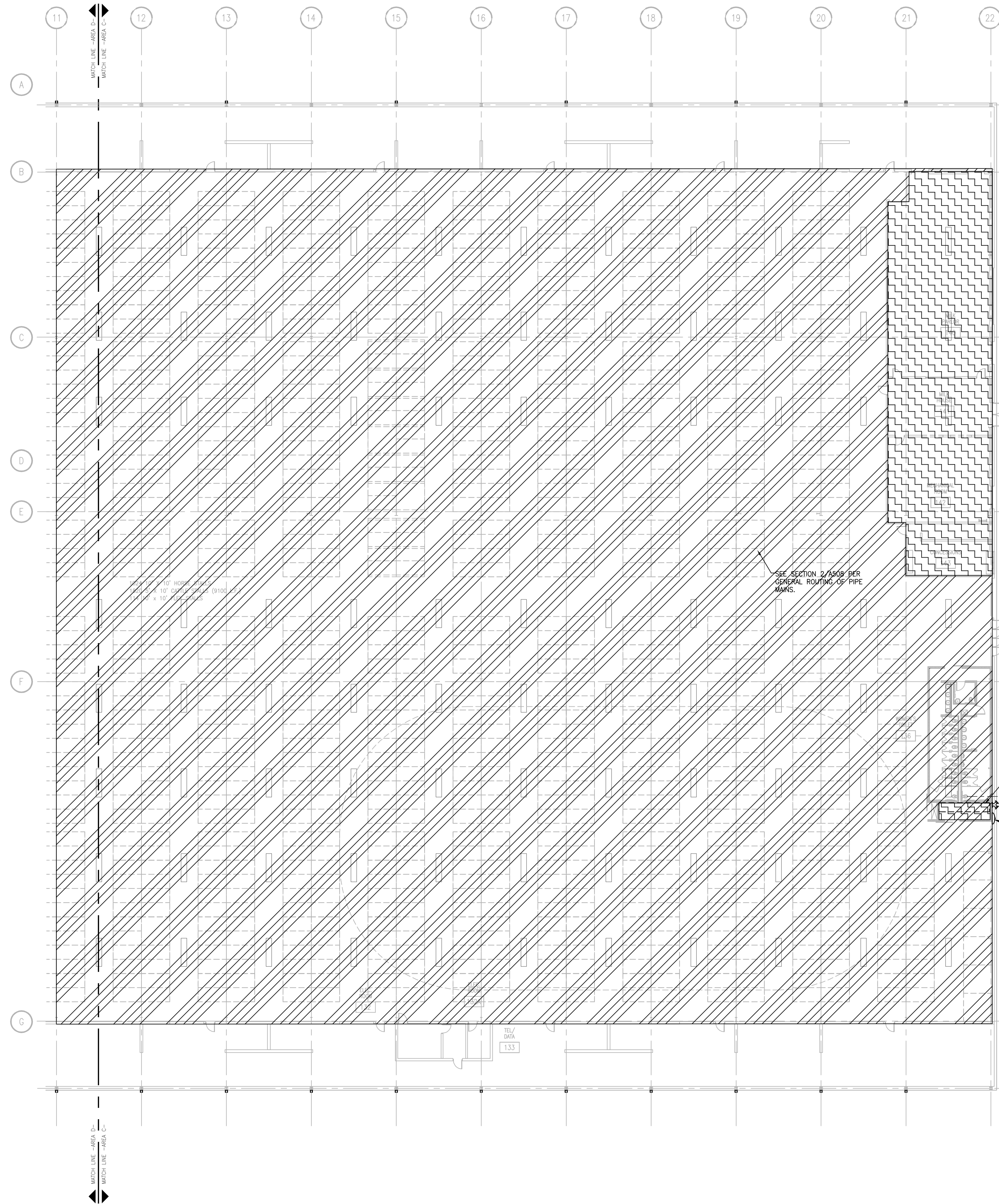
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
FIRST FLOOR  
FIRE PROTECTION  
PLAN AREA B - BLD 1

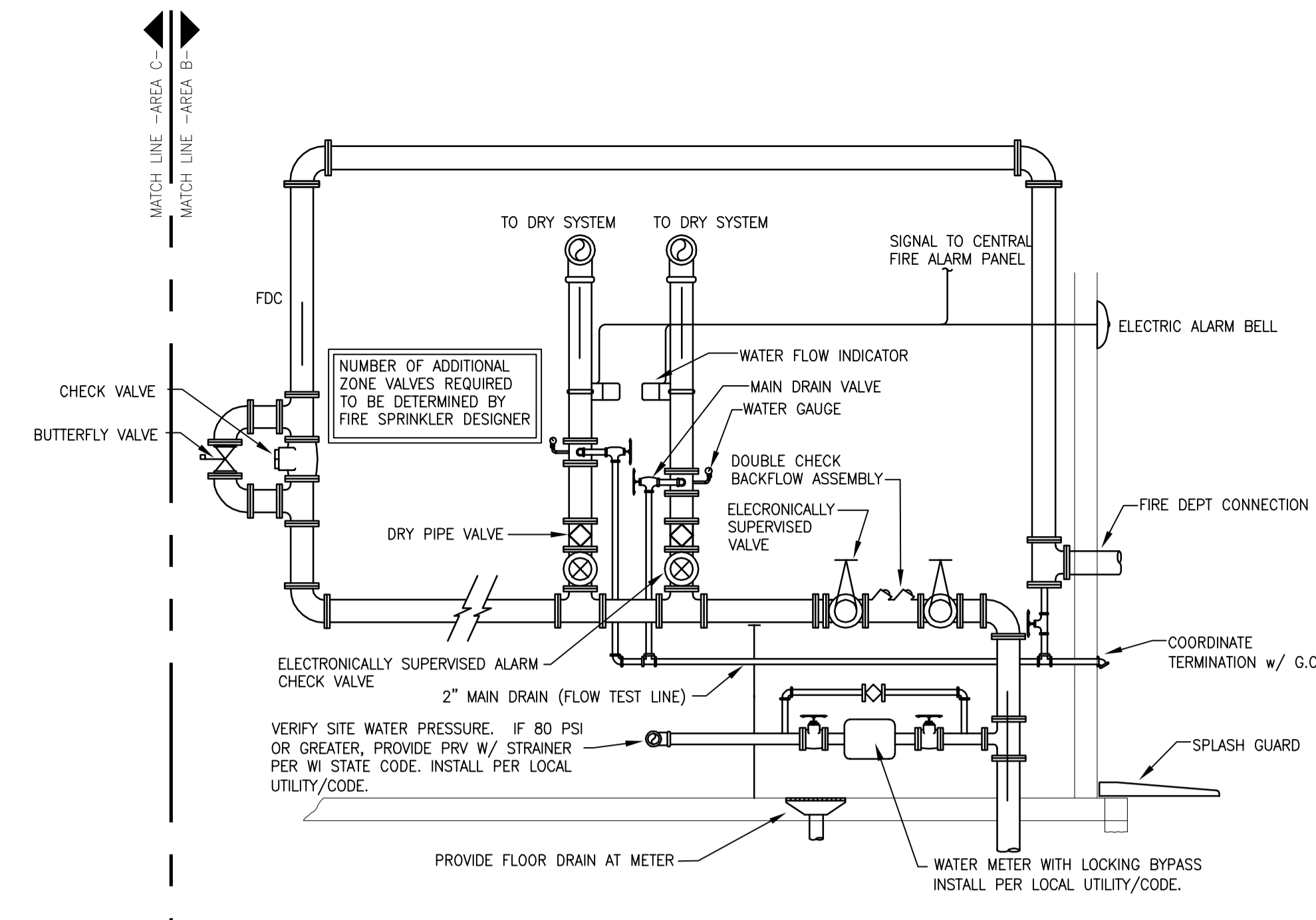
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**FIRST FLOOR FIRE PROTECTION PLAN - AREA C**  
SCALE: 1/16" = 1'-0"



**2 RISER DETAIL**  
SCALE: NONE

**FIRE PROTECTION NOTES**

**LIGHT HAZARD FIRE PROTECTION REQUIREMENTS**

NOTE:  
AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "LIGHT HAZARD" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR OFFICE AND MEETING ROOM AREAS)

**DRY PIPE SYSTEM**

1. LIGHT HAZARD PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 225 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A DRY PIPE SYSTEM W/ ELECTRONIC CONTROLS.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS
5. SPRINKLERS IN OFFICE AND SUPPORT SPACES WITH A TEMPERATURE RATING OF 160°F. DENSITY OF 0.10 GPM/SQ.FT.
6. SPRINKLER HEADS TO BE CONCEALED WITH WHITE COVER PLATE IN FINISHED SPACES. UPRIGHT BRASS IN UNFINISHED SPACES, AND PAINTED IN TO MATCH CEILING IN SANCTUARY AREA.

NOTE: REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

**FIRE PROTECTION NOTES**

**ORDINARY HAZARD GROUP 2 FIRE PROTECTION REQUIREMENTS**

NOTE:  
AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "ORDINARY HAZARD - GROUP 2" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR STORAGE AND MECHANICAL AREAS)

**DRY PIPE SYSTEM**

1. ORDINARY HAZARD GROUP 2 PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 130 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A DRY PIPE SYSTEM W/ ELECTRONIC CONTROLS.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS
5. SPRINKLER HEADS IN FINISHED CEILING AREAS TO BE CONCEALED W/ WHITE FINISHED PLATE. HEADS UNFINISHED AREAS TO BE UPRIGHT BRASS.

NOTE: REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

DRAWINGS SHALL BE REVIEWED AND STAMPED BY A/E PRIOR TO START OF ANY NEW WORK. APPROVED PLANS SHALL BE SENT TO ARCHITECT.

**STRANG**

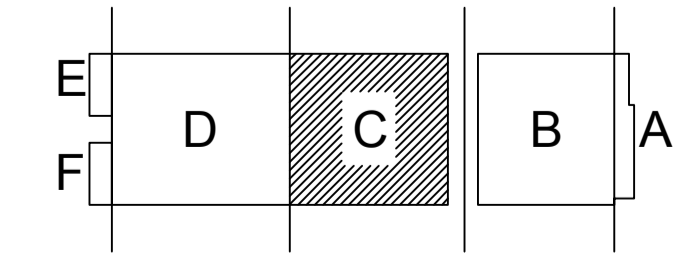
ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6413 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

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PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

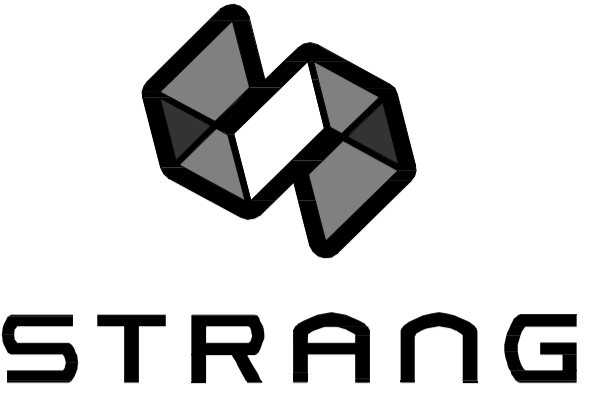
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713



**KEY PLAN**

SHEET TITLE  
**FIRST FLOOR  
FIRE PROTECTION  
PLAN AREA C - BLD 2**

SHEET NO.  
**FP201C**



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6413 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

**FIRE PROTECTION NOTES**

ORDINARY HAZARD GROUP 2  
FIRE PROTECTION REQUIREMENTS

NOTE:  
AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "ORDINARY HAZARD - GROUP 2" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR STORAGE AND MECHANICAL AREAS)

DRY PIPE SYSTEM

1. ORDINARY HAZARD GROUP 2 PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 130 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A DRY PIPE SYSTEM W/ ELECTRONIC CONTROLS.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS.
5. SPRINKLER HEADS IN FINISHED CEILING AREAS TO BE CONCEALED W/ WHITE FINISHED PLATE. HEADS UNFINISHED AREAS TO BE UPRIGHT BRASS.

NOTE: REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

**FIRE PROTECTION NOTES**

LIGHT HAZARD  
FIRE PROTECTION REQUIREMENTS

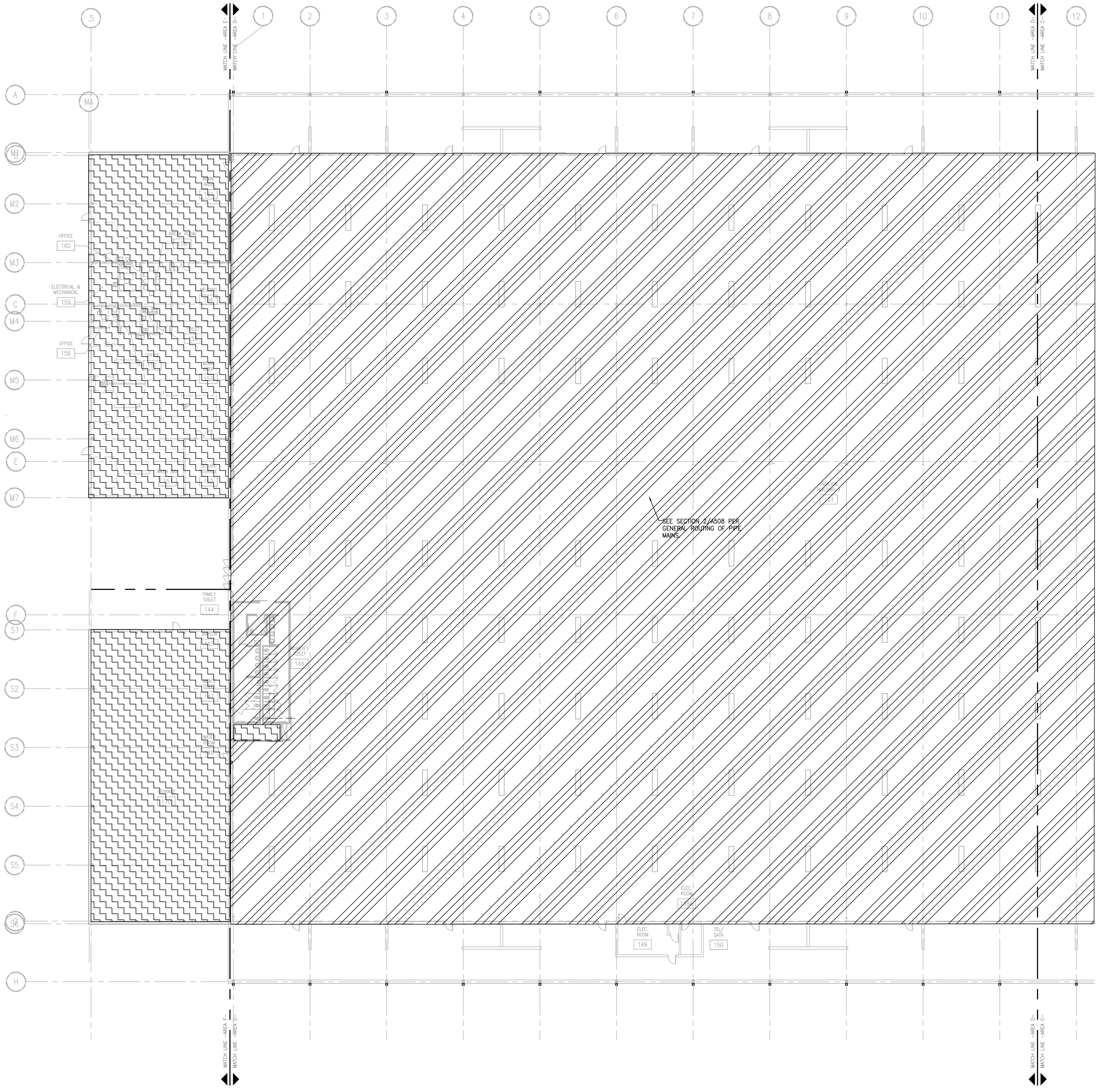
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AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "LIGHT HAZARD" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR OFFICE AND MEETING ROOM AREAS)

DRY PIPE SYSTEM

1. LIGHT HAZARD PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 225 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS.
3. THE SYSTEM SHALL BE A DRY PIPE SYSTEM W/ ELECTRONIC CONTROLS.
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS.
5. SPRINKLERS IN OFFICE AND SUPPORT SPACES WITH A TEMPERATURE RATING OF 165F, DENSITY OF 0.10 GPM/SQ.FT.
6. SPRINKLER HEADS TO BE CONCEALED WITH WHITE COVER PLATE IN FINISHED SPACES. UPRIGHT BRASS IN UNFINISHED SPACES, AND PAINTED IN TO MATCH CEILING IN SANCTUARY AREA.

NOTE: REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

DRAWINGS SHALL BE REVIEWED AND STAMPED BY ANI PRIOR TO START OF ANY NEW WORK. APPROVED PLANS SHALL BE SENT TO ARCHITECT.



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FP201D  
FIRST FLOOR FIRE PROTECTION PLAN - AREA D, E, & F  
SCALE: 1/16" = 1'-0"

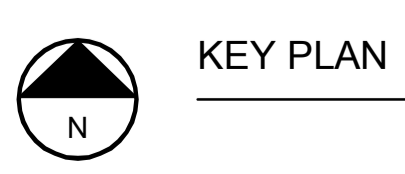
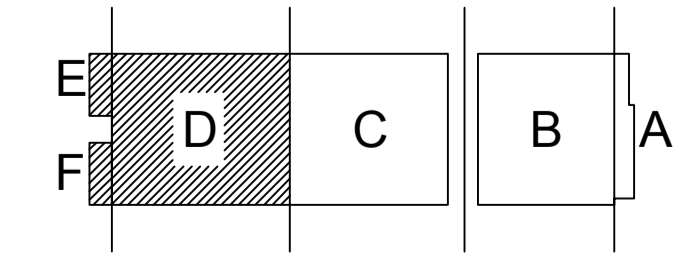
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

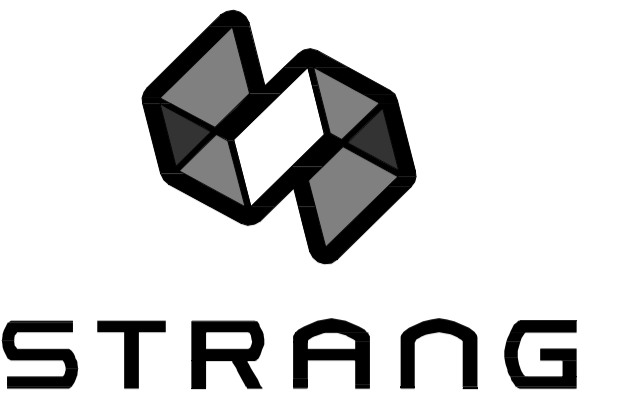
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
FIRST FLOOR FIRE PROTECTION PLAN  
AREA D,E,F- BLD 2

SHEET NO.  
FP201D



2013027\_02-FP201D.DWG  
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 CARLOS BUZ  
 2008-6-30 2:27 PM  
 ALLIANT ENERGY CENTER LIFESTOCK & EXHIBITION HALL EXPANSION 2013027\_02 - ALLIANT ENERGY CENTER LIFESTOCK AND EXHIBITION HALL DRAWINGS 2013027\_02-FP201D.DWG



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

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MADISON, WI 53705-4395  
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F/ 608 276 9204

**FIRE PROTECTION NOTES**

LIGHT HAZARD  
FIRE PROTECTION REQUIREMENTS

NOTE:  
AREAS SHOWN WITH DIAGONAL HATCHING (AS ABOVE) SHALL HAVE FIRE PROTECTION SYSTEM DESIGNED AND INSTALLED TO MEET NFPA "LIGHT HAZARD" OCCUPANCY CLASSIFICATION REQUIREMENTS (TYP. FOR OFFICE AND MEETING ROOM AREAS)

WET PIPE SYSTEM

1. LIGHT HAZARD PROJECTED AREA PER SPRINKLER HEAD SHALL NOT EXCEED 225 SQ.FT.
2. SPRINKLER COVERAGE AND SYSTEM PIPING SHALL BE HYDRAULICALLY DESIGNED BY FIRE PROTECTION CONTRACTOR BASED ON NFPA REQUIREMENTS
3. THE SYSTEM SHALL BE A WET PIPE SYSTEM
4. SPACING SHALL NOT EXCEED 15 FT. BETWEEN SPRINKLER HEADS
5. SPRINKLERS IN OFFICE AND SUPPORT SPACES WITH A TEMPERATURE RATING OF 165°F, DENSITY OF 0.10 GPM/SQ.FT.
6. SPRINKLER HEADS TO BE CONCEALED WITH WHITE COVER PLATE IN FINISHED SPACES, UPRIGHT BRASS IN UNFINISHED SPACES, AND FRANKED IN TO MATCH CEILING IN SANCTUARY AREA.

NOTE: REFER TO SPECIAL CEILING CONDITIONS ON ARCHITECTURAL DRAWINGS - COORDINATE LOCATIONS OF FIRE PROTECTION SPRINKLER HEADS WITH A/E PRIOR TO INSTALLATION.

DRAWINGS SHALL BE REVIEWED AND STAMPED BY A/E PRIOR TO START OF ANY NEW WORK. APPROVED PLANS SHALL BE SENT TO ARCHITECT.

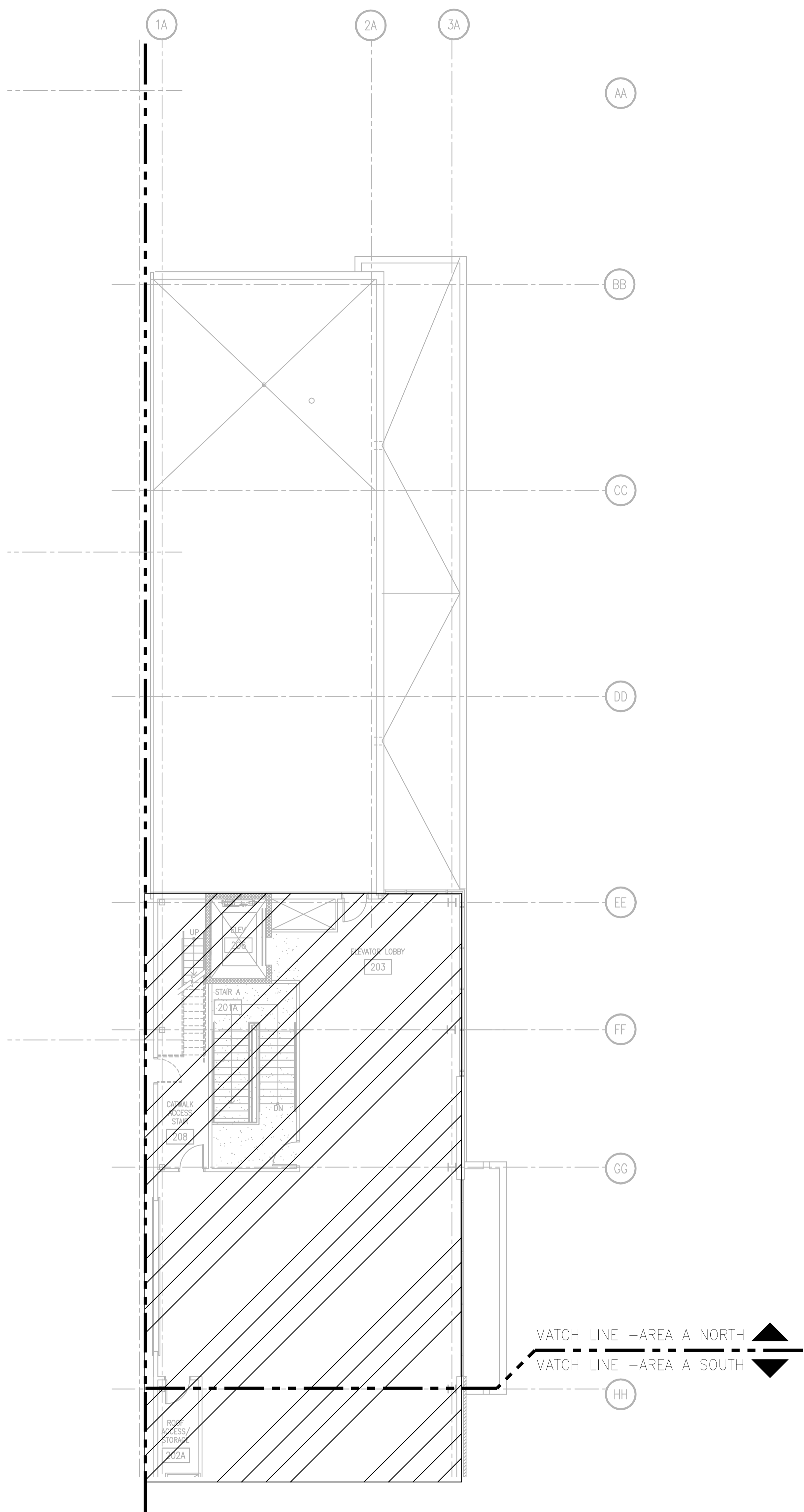
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PROJECT TITLE	

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BID # 313072

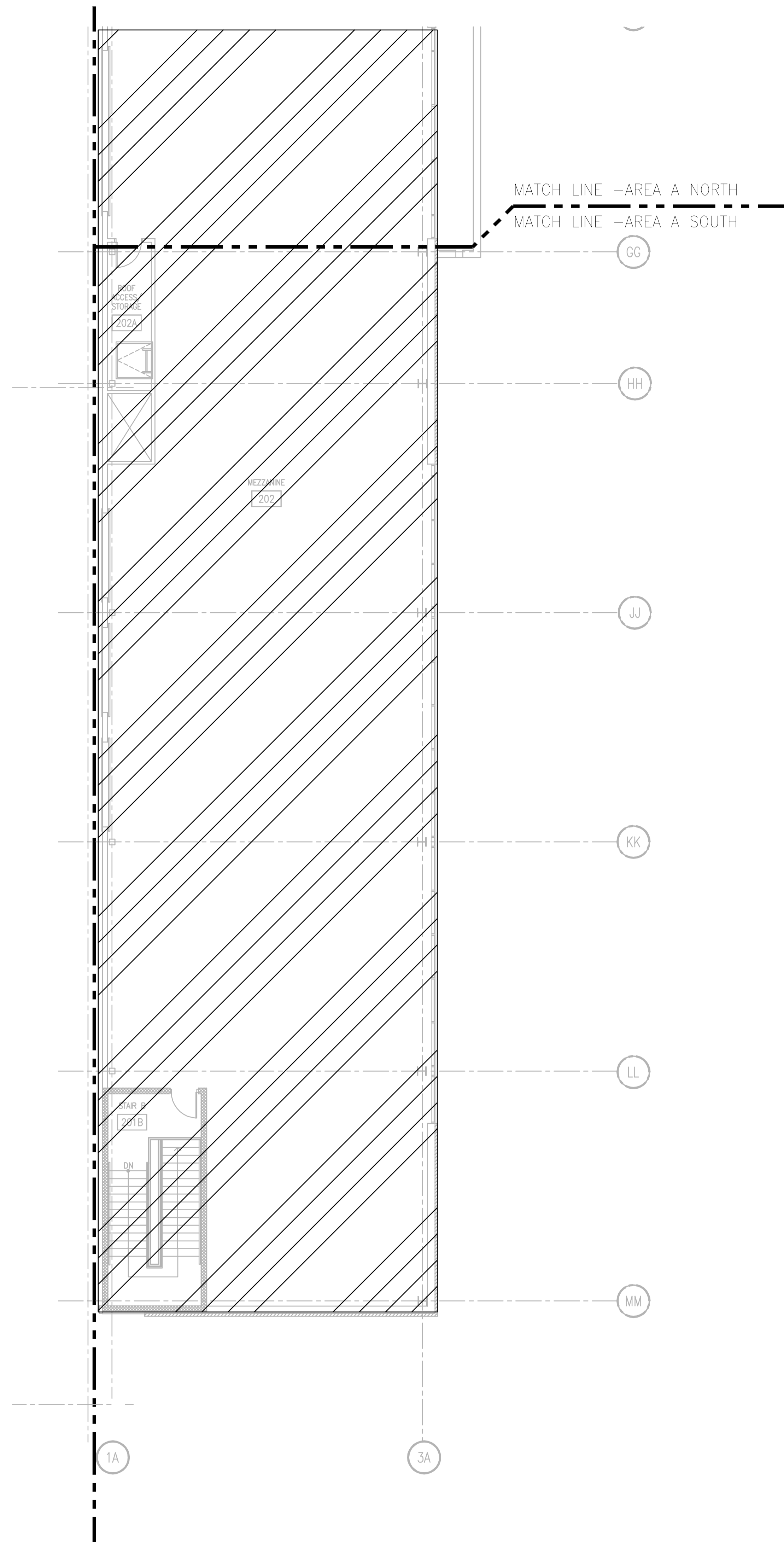
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**MEZZANINE  
FIRE PROTECTION  
PLAN AREA A - BLD 1**

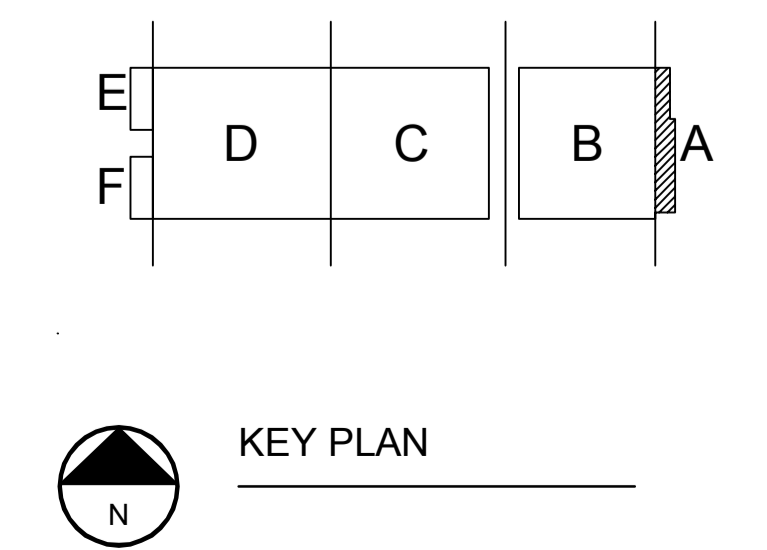
SHEET NO.  
**FP202A**



MEZZANINE FIRE PROTECTION PLAN - AREA A - NORTH  
SCALE: 1/8" = 1'-0"



MEZZANINE FIRE PROTECTION PLAN - AREA A - SOUTH  
SCALE: 1/8" = 1'-0"



KEY PLAN

DRAWING SET	CD
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FILE NAME	2013027_02-P201A-S.DWG
REVISIONS	
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

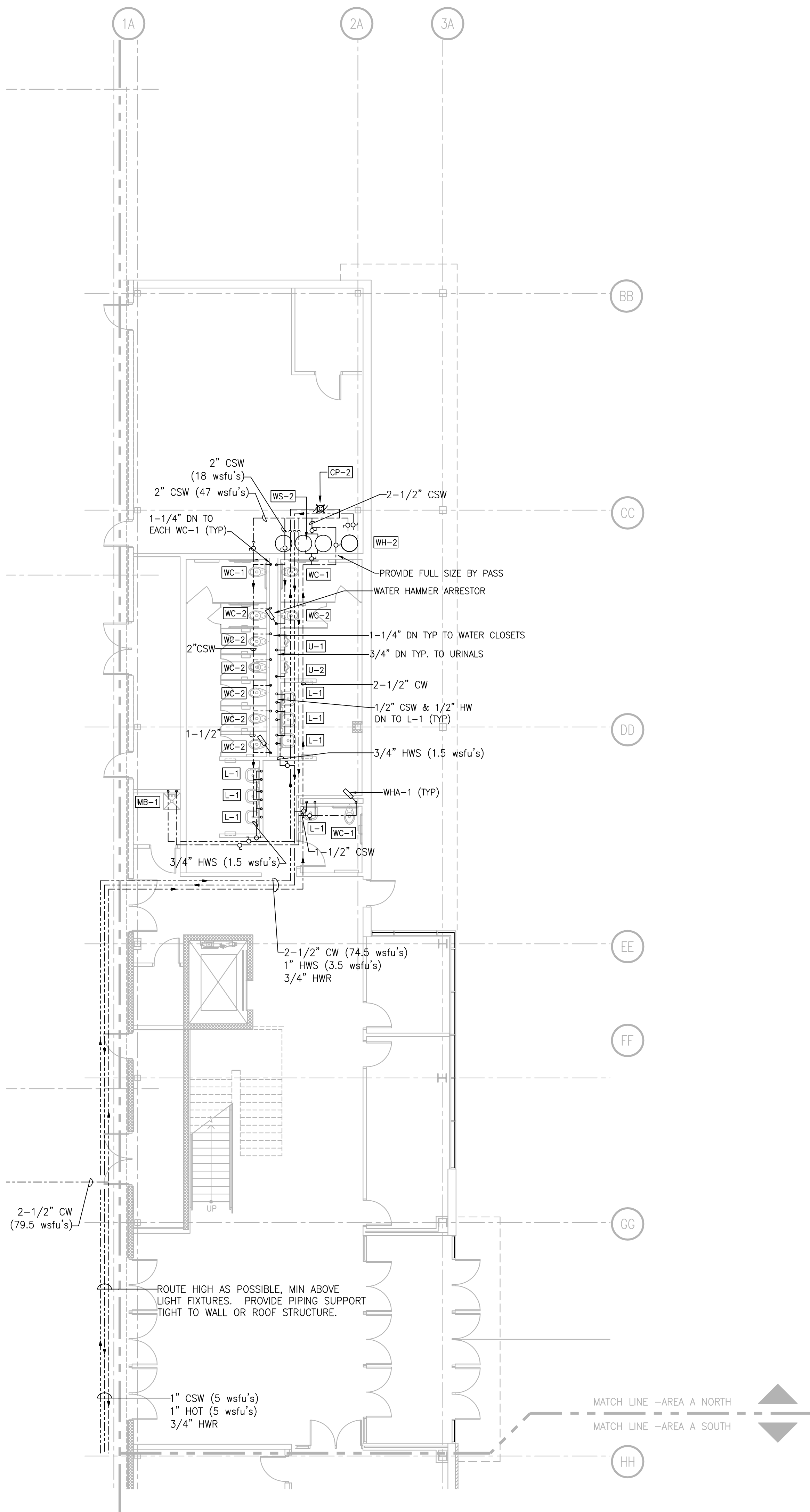
SHEET TITLE  
**FIRST FLOOR  
PLUMBING SUPPLY  
PLAN AREA A - BLD 1**

SHEET NO.  
**P201A-S**

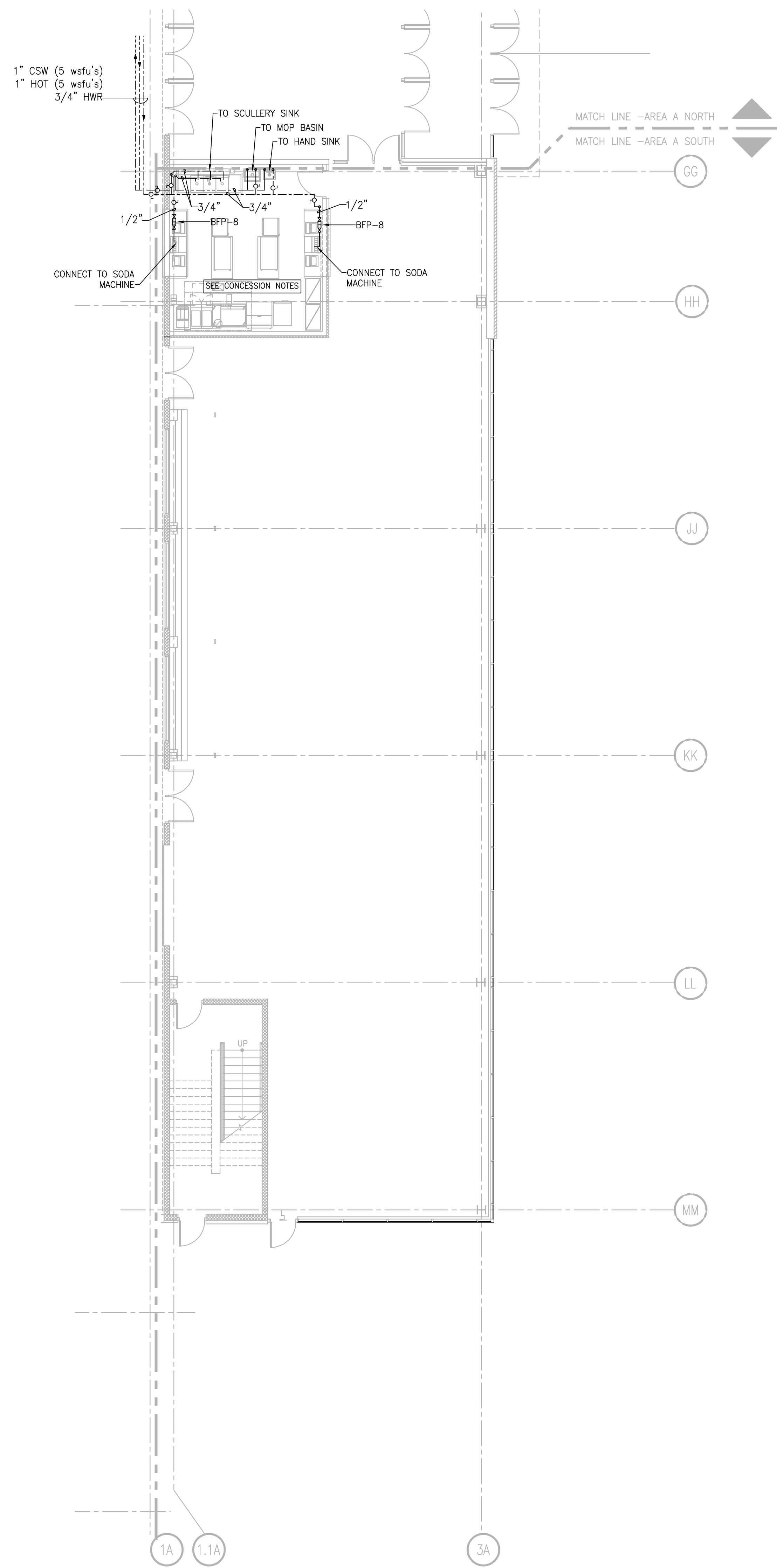
GENERAL PLUMBING NOTES	
1.	ALL SINGLE FIXTURE LINES TO BE 1/2". ALL MULTIPLE FIXTURE LINES TO BE 3/4" UNLESS NOTED OTHERWISE.
2.	ALL SUPPLY PIPING TO INTERIOR COLUMN HOSE BIBBS TO BE 1". UNLESS NOTED OTHERWISE.
3.	PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS AND ACCESS PANELS.
4.	PIPING SHALL NOT DIMINISH IN SIZE OPPOSITE THE DIRECTION OF FLOW.
5.	ALL SHUT-OFF VALVES SHALL BE IN ACCESSIBLE LOCATIONS.
6.	PIPING SHALL BE ROUTED AS TIGHT TO STRUCTURE AS POSSIBLE.
7.	ALL PIPING IN BUILDING #2 (C & D) SHALL BE SLOPED TO ALLOW PIPING TO BE DRAINED FOR FREEZE PROTECTION.
8.	ROUTE ALL VERTICAL PIPING AS TIGHT TO COLUMN AS POSSIBLE.

PLUMBING SUPPLY SPECIFIC NOTES	
1	1" COLD WATER DOWN TO HOSE BIBBS. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAIL 4/P401.
2	1-1/4" COLD WATER DOWN TO WASH BAY STATION WB-4. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAILS 5/P401 & 6/P402.

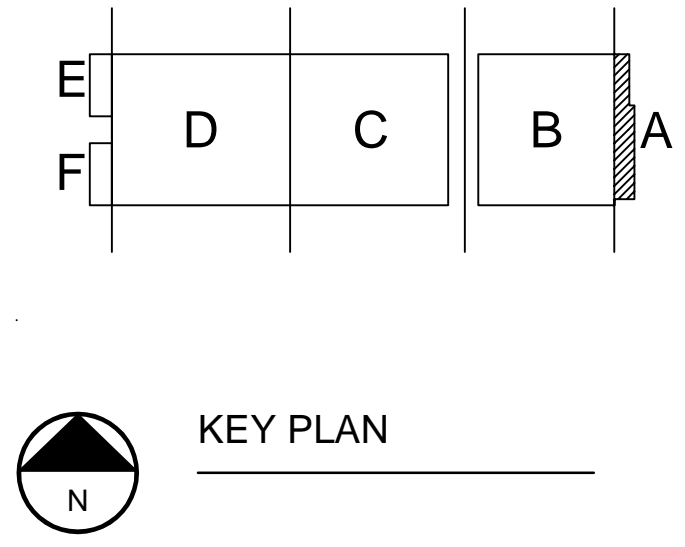
CONCESSION AREA NOTES:	
-	SEE FOOD SERVICE EQUIPMENT (FSE) DOCUMENTS FOR DETAILED INFORMATION ON EQUIPMENT PROVIDED BY FSE CONTRACTOR, INSTALLATION REQUIREMENTS, AND MECH/ELEC/PLUMBING CONNECTIONS TO EQUIPMENT.
-	COORDINATE INSTALLATION OF ITEMS SHOWN WITH ALL OTHER TRADES. INSTALLATION MAY NEED TO BE PHASED DUE TO WORK OF OTHER TRADES.
-	FLOOR SINKS, FLOOR DRAINS, AND MOB BASIN WILL BE PROVIDED BY PLUMBING CONTRACTOR.
-	HAND SINKS, FAUCETS, AND OTHER ASSOCIATED KITCHEN EQUIPMENT BY FOOD SERVICE CONSULTANT. INSTALLATION AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR.
-	GREASE INTERCEPTOR PROVIDED BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE OWNER WITH INFORMATION ON INSTALLATION AND UNIT COST.
-	ALL SUPPLY, WASTE AND VENT PIPING, INCLUDING ALL APPURTENANCES FOR COMPLETE AND OPERATION SYSTEM SHALL BE PART OF PLUMBING CONTRACTORS SCOPE. INCLUDING BACKFLOW DEVICES, SHUT-OFF VALVES, AND INDIRECT WASTE PIPING.



**FIRST FLOOR PLUMBING SUPPLY PLAN - AREA A NORTH**  
SCALE: 1/8" = 1'-0"  
0' 2' 4' 8' 12'

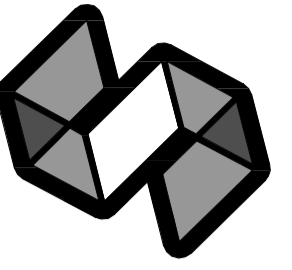


**FIRST FLOOR PLUMBING SUPPLY PLAN - AREA A SOUTH**  
SCALE: 1/8" = 1'-0"  
0' 2' 4' 8' 12'



KEY PLAN  
N

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**STRANG**

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

PLUMBING UNDERSLAB GENERAL NOTES	
1.	ALL VENTING TO BE 1'-1/2" UNLESS NOTED OTHERWISE.
2.	ALL WASTE PIPING TO BE 4" UNLESS NOTED OTHERWISE.
3.	ALL PIPING 3" AND LARGER TO BE SLOPED AT 1/8" PER FOOT
4.	ALL PIPING LESS THAN 3" TO BE SLOPED AT 1/4" PER FOOT
5.	INFORMATIONAL BID #1: CONCESSION AREA GREASE INTERCEPTORS

PLUMBING UNDERSLAB SPECIFIC NOTES	
1	UP TO CLEAN OUT
2	UP TO TRENCH DRAIN
3	UP TO FLOOR DRAIN
4	UP TO WATER CLOSET
5	3" VENT UP
6	2" VENT UP
7	1'-1/2" VENT UP
8	18,200 SQFT, 623 GPM. 8" VERTICAL STORM, 8" @ 1/4" HORIZONTAL STORM. PLUMBER TO PROVIDE CONNECTION TO GUTTER SYSTEM @ 20' A.F.G. (APPROX). ROUTE STORM THROUGH COLUMN & OUT BELOW GRADE TO SITE STORM. SEE DETAIL 4/P402.
9	13,500 SQFT, 519 GPM. 6" VERTICAL STORM, 8" @ 1/4" HORIZONTAL STORM. SEE NOTE 8.
10	18,900 SQFT, 726 GPM. 8" VERTICAL STORM, 10" @ 1/4" HORIZONTAL STORM. SEE NOTE 8
11	UP TO SINK.
12	UP TO HUB DRAIN.
13	UP TO FLOOR SINK.
14	UP TO MOP SINK.
15	UP TO LAVATORY.
16	UP TO SHOWER DRAIN.

CONCESSION AREA NOTES:	
-	SEE FOOD SERVICE EQUIPMENT (FSE) DOCUMENTS FOR DETAILED INFORMATION ON EQUIPMENT PROVIDED BY FSE CONTRACTOR, INSTALLATION REQUIREMENTS, AND MECH/ELEC/PLUMBING CONNECTIONS TO EQUIPMENT.
-	COORDINATE INSTALLATION OF ITEMS SHOWN WITH ALL OTHER TRADES. INSTALLATION MAY NEED TO BE PHASED DUE TO WORK OF OTHER TRADES.
-	FLOOR SINKS, FLOOR DRAINS, AND MOB BASIN WILL BE PROVIDED BY PLUMBING CONTRACTOR.
-	HAND SINKS, FAUCETS, AND OTHER ASSOCIATED KITCHEN EQUIPMENT BY FOOD SERVICE CONSULTANT. INSTALLATION AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR.
-	GREASE INTERCEPTOR PROVIDED BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE OWNER WITH INFORMATION ON INSTALLATION AND UNIT COST.
-	ALL SUPPLY, WASTE AND VENT PIPING, INCLUDING ALL APPURTENANCES FOR COMPLETE AND OPERATION SYSTEM SHALL BE PART OF PLUMBING CONTRACTORS' SCOPE. INCLUDING BACKFLOW DEVICES, SHUT-OFF VALVES, AND INDIRECT WASTE PIPING.

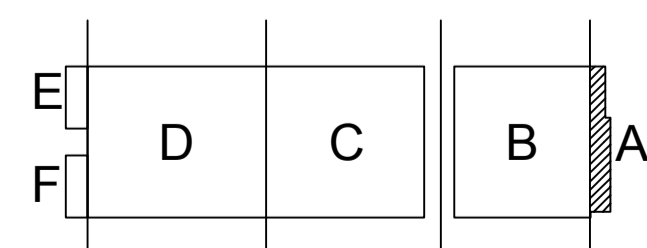
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PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

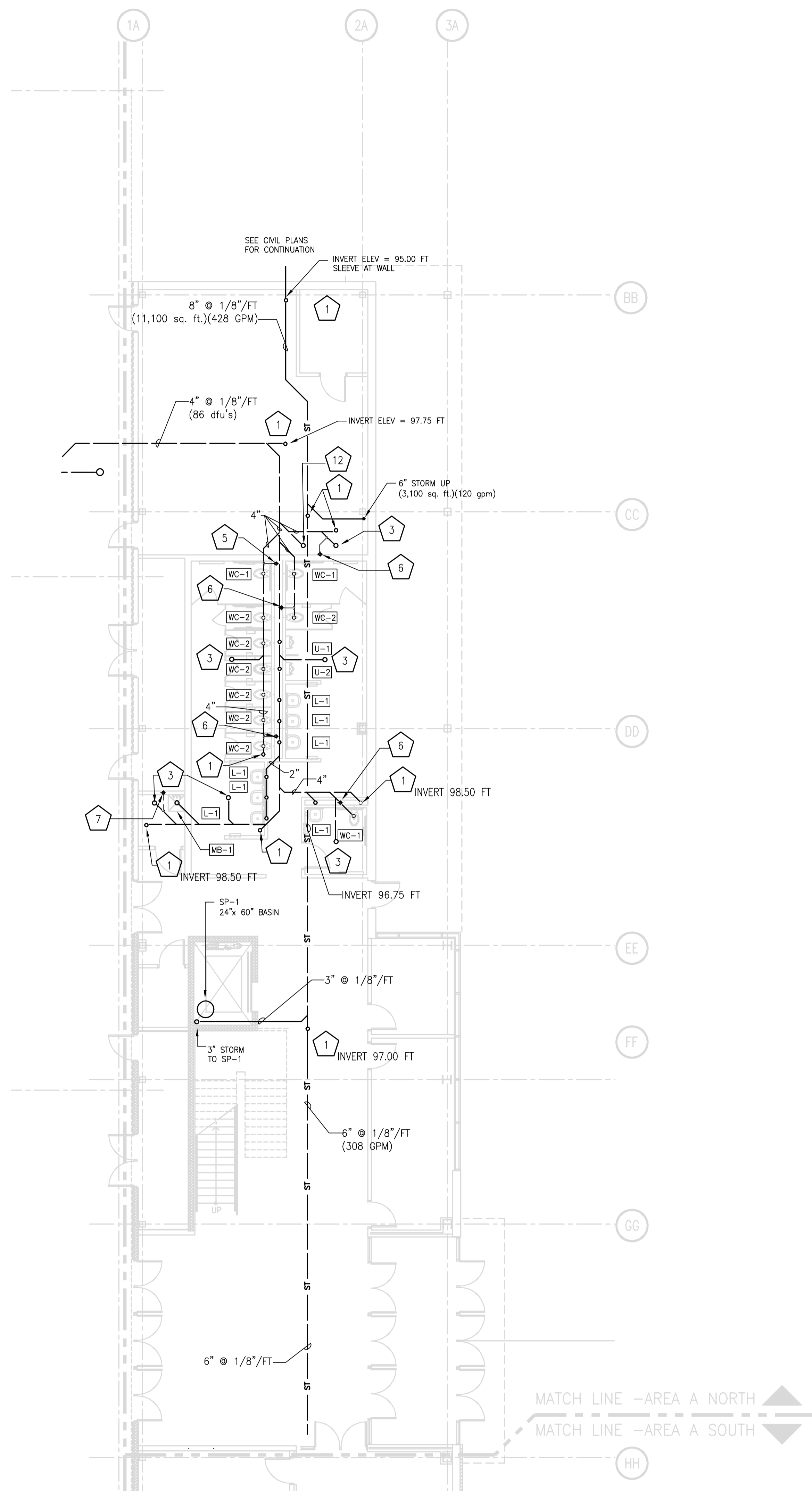
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR PLUMBING  
UNDERSLAB PLAN  
AREA A - BLD 1**

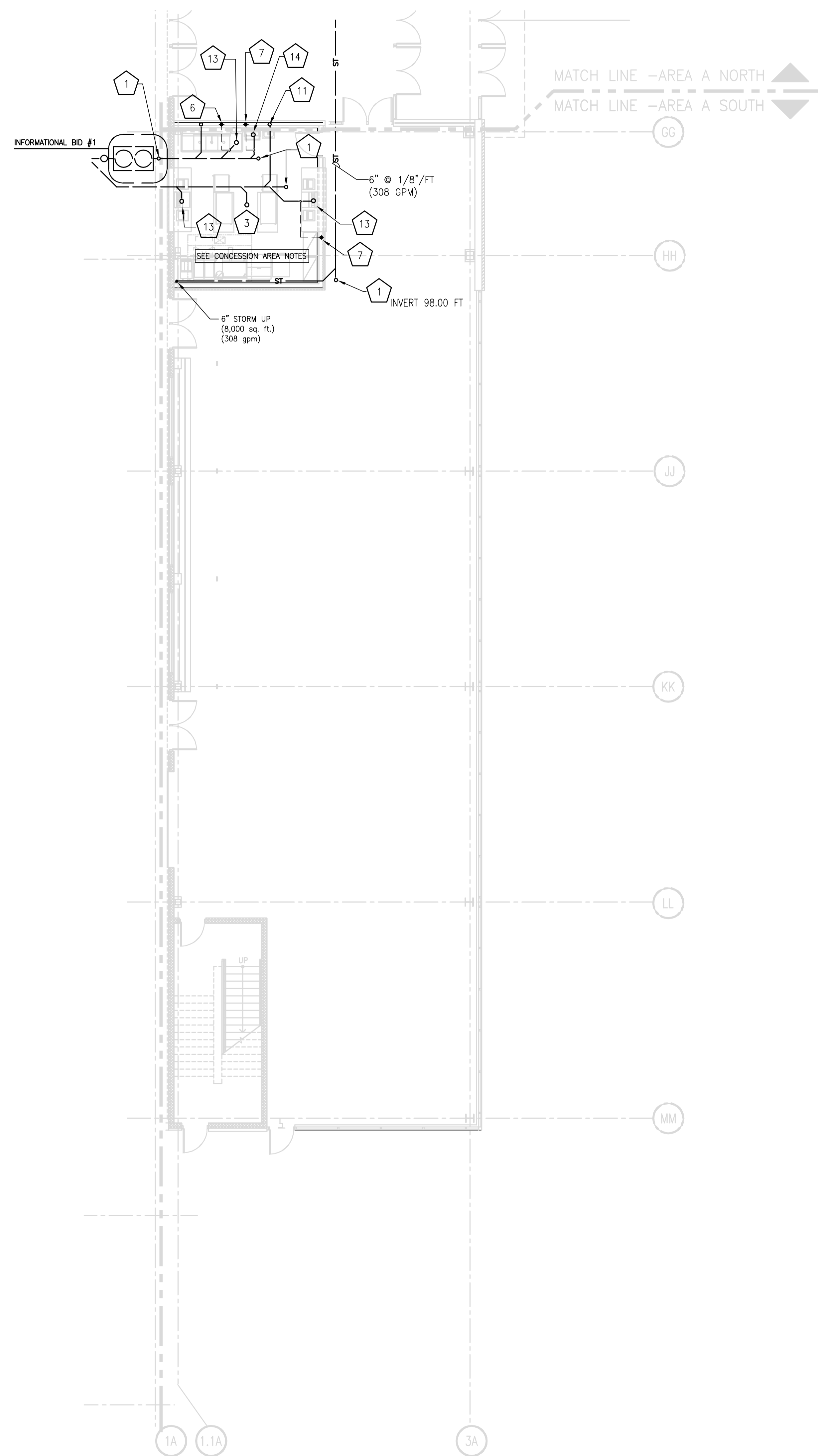
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KEY PLAN



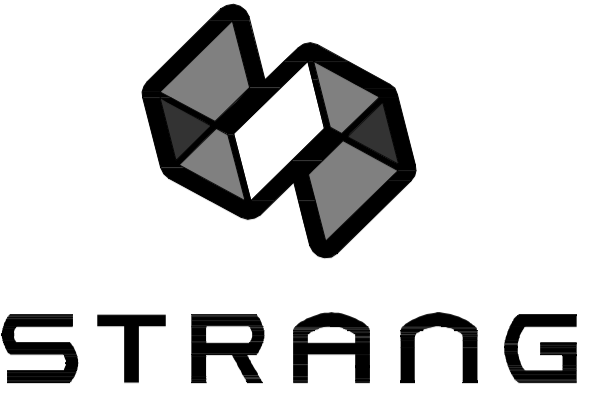
**FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA A NORTH**  
SCALE: 1/8" = 1'-0"  
0' 2' 4' 8' 12'



**FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA A SOUTH**  
SCALE: 1/8" = 1'-0"  
0' 2' 4' 8' 12'

CARLOS RUIZ 2013.10.29 10:27 AM K:\2013027\_02-P201A-U.DWG - ALLIANT ENERGY CENTER PAVILIONS & EXHIBITION SPACE EXPANSION 2013027\_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALL DRAWINGS 2013027\_02-P201A-U.DWG  
1  
P201AU  
2  
P201AU





ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6413 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 278 9200  
F/ 608 278 9204

PLUMBING WASTE GENERAL NOTES	
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHIN 3 FEET OF ANY ELECTRICAL PANEL. NO PIPING ABOVE OR BELOW THIS SPACE.
3.	NO PIPING SHALL BE INSTALLED ABOVE ACCESS PANELS.
4.	ALL ABOVE GRADE STORM PIPING IN AREA "A" TO BE CAST IRON.

PLUMBING WASTE SPECIFIC NOTES	
1	CLEAN OUT
2	TD-1 TRENCH DRAIN
3	FD-1 FLOOR DRAIN
4	FD-2 FLOOR DRAIN
5	FD-3 FLOOR DRAIN
6	FD-4 FLOOR DRAIN
7	3" VENT DN
8	2" VENT DN
9	1-1/2" VENT DN
10	FS-1 FLOOR SINK
11	FS-2 FLOOR SINK
12	4" HUB DRAIN WITH 24" STAND PIPE

**CONCESSION AREA NOTES:**

- SEE FOOD SERVICE EQUIPMENT (FSE) DOCUMENTS FOR DETAILED INFORMATION ON EQUIPMENT PROVIDED BY FSE CONTRACTOR, INSTALLATION REQUIREMENTS, AND MECH/ELEC/PLUMBING CONNECTIONS TO EQUIPMENT.
- COORDINATE INSTALLATION OF ITEMS SHOWN WITH ALL OTHER TRADES. INSTALLATION MAY NEED TO BE PHASED DUE TO WORK OF OTHER TRADES.
- FLOOR SINKS, FLOOR DRAINS, AND MOB BASIN WILL BE PROVIDED BY PLUMBING CONTRACTOR.
- HAND SINKS, FALCETS, AND OTHER ASSOCIATED KITCHEN EQUIPMENT BY FOOD SERVICE CONSULTANT. INSTALLATION AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR.
- GREASE INTERCEPTOR PROVIDED BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR TO PROVIDE OWNER WITH INFORMATION ON INSTALLATION AND UNIT COST.
- ALL SUPPLY, WASTE AND VENT PIPING, INCLUDING ALL APPURTENANCES FOR COMPLETE AND OPERATION SYSTEM SHALL BE PART OF PLUMBING CONTRACTORS SCOPE, INCLUDING BACKFLOW DEVICES, SHUT-OFF VALVES, AND INDIRECT WASTE PIPING.

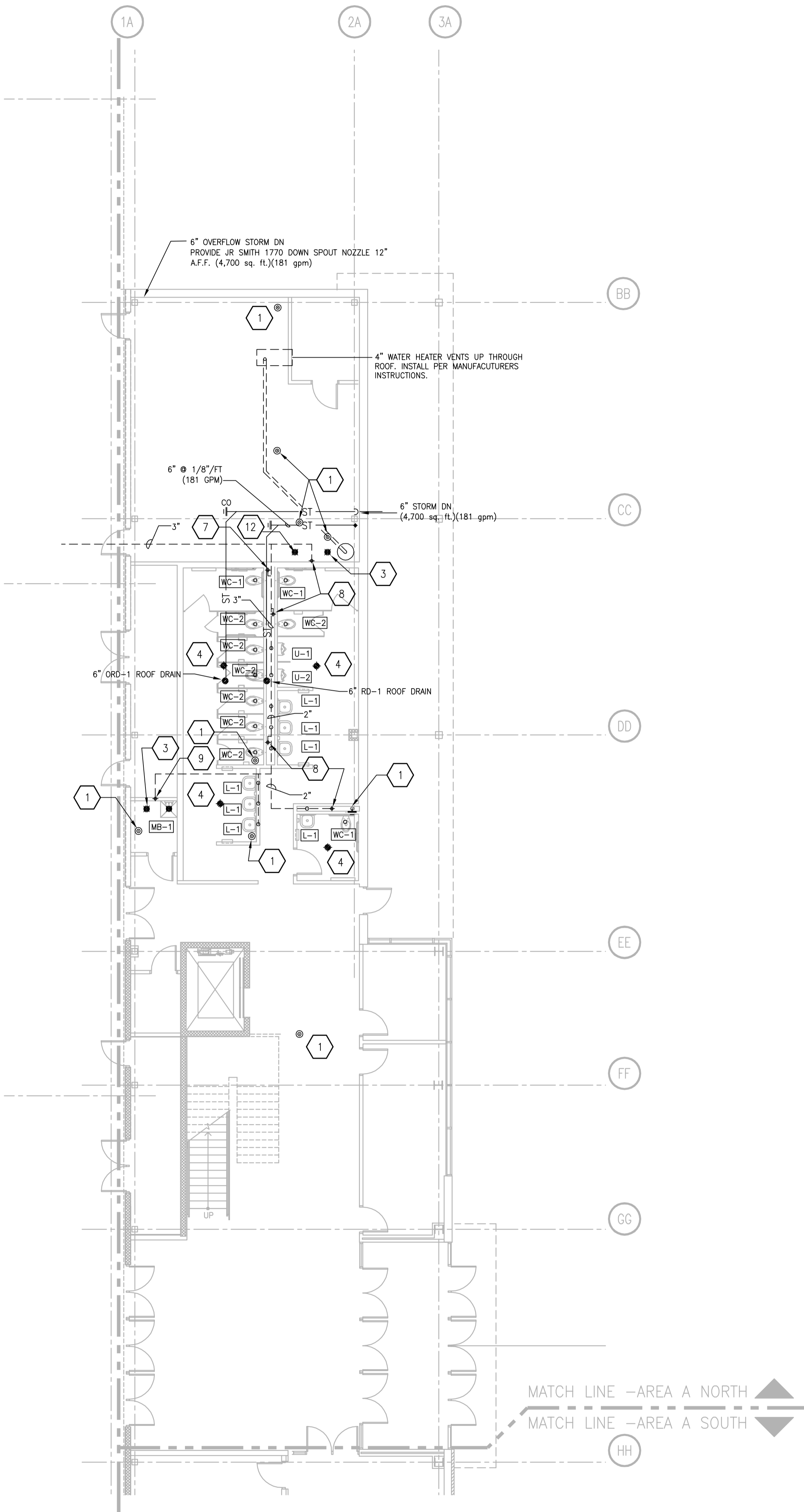
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REVISIONS	
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

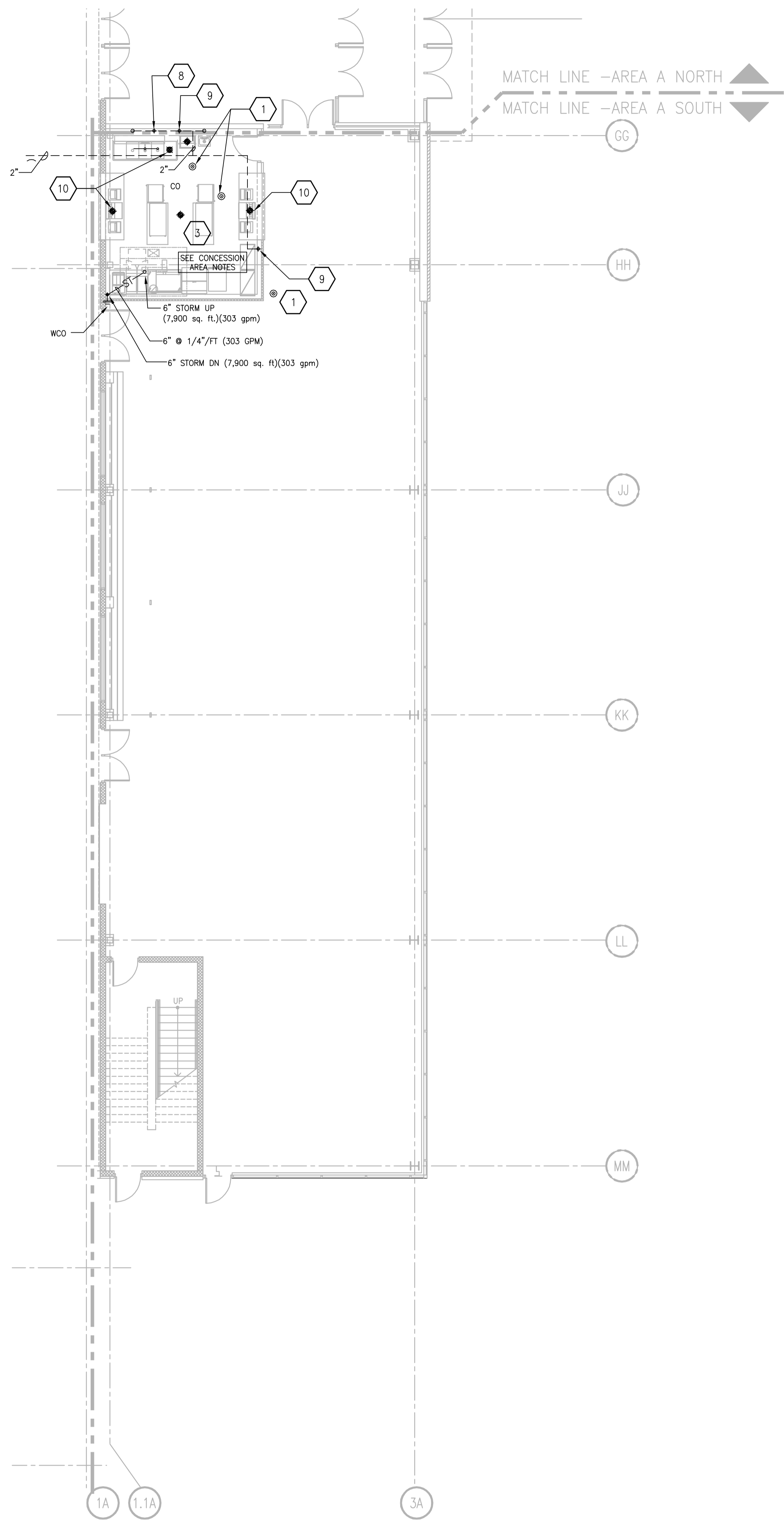
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR PLUMBING WASTE & VENT PLAN AREA A - BLD 1**

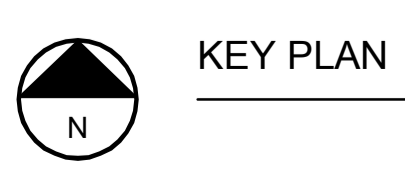
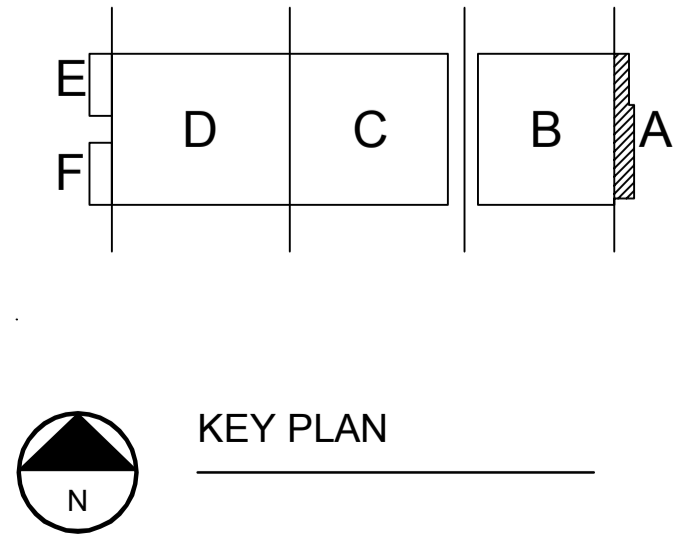
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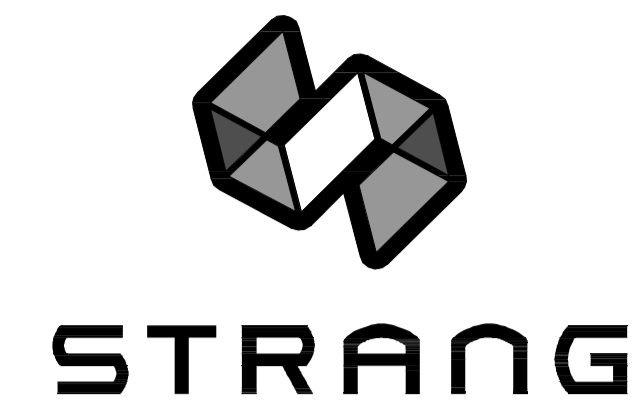
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SCALE: 1/8" = 1'-0"  
0' 2' 4' 8' 12'



**FIRST FLOOR PLUMBING WASTE & VENT PLAN - AREA A SOUTH**  
SCALE: 1/8" = 1'-0"  
0' 2' 4' 8' 12'



2013027\_02\_P201A-W.DWG  
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 1 - Comments



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
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F/ 608 276 9204

GENERAL PLUMBING NOTES	
1.	ALL SINGLE FIXTURE LINES TO BE 1/2", ALL MULTIPLE FIXTURE LINES TO BE 3/4" UNLESS NOTED OTHERWISE.
2.	ALL SUPPLY PIPING TO INTERIOR COLUMN HOSE BIBBS TO BE 1" UNLESS NOTED OTHERWISE.
3.	PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS AND ACCESS PANELS.
4.	PIPING SHALL NOT DIMINISH IN SIZE OPPOSITE THE DIRECTION OF FLOW.
5.	ALL SHUT-OFF VALVES SHALL BE IN ACCESSIBLE LOCATIONS.
6.	PIPING SHALL BE ROUTED AS TIGHT TO STRUCTURE AS POSSIBLE.
7.	ALL PIPING IN BUILDING #2 (C & D) SHALL BE SLOPED TO ALLOW PIPING TO BE DRAINED FOR FREEZE PROTECTION.
8.	ROUTE ALL VERTICAL PIPING AS TIGHT TO COLUMN AS POSSIBLE.

PLUMBING SUPPLY SPECIFIC NOTES	
1	1" COLD WATER DOWN TO HOSE BIBBS. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAIL 4/P401.
2	1-1/4" COLD WATER DOWN TO WASH BAY STATION WB-4. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAILS 5/P401 & 6/P402.

DRAWING SET	CD
COPYRIGHT	2013
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FILE NAME	2013027_02-P201B-S.DWG
REVISIONS	

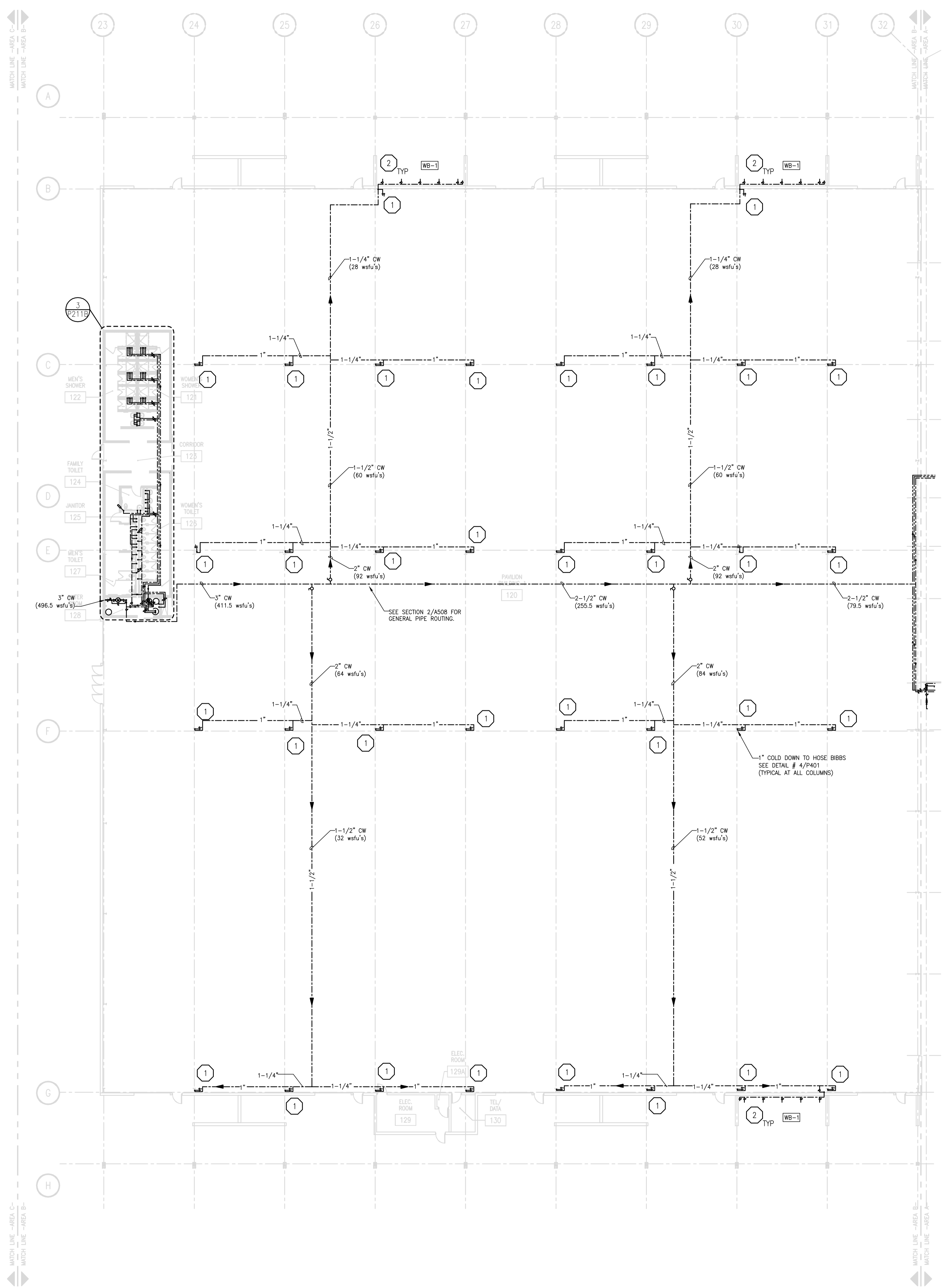
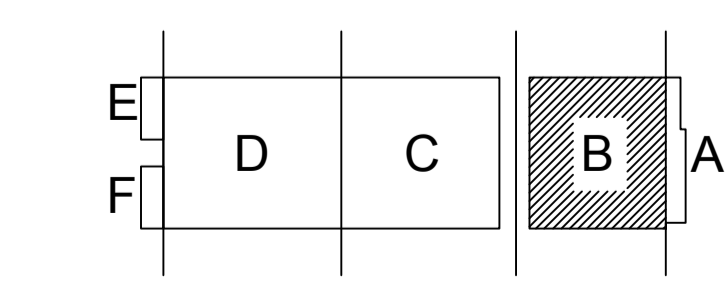
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CHECKED	RG
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR  
PLUMBING SUPPLY  
PLAN AREA B - BLD 1**

SHEET NO.  
**P201B-S**

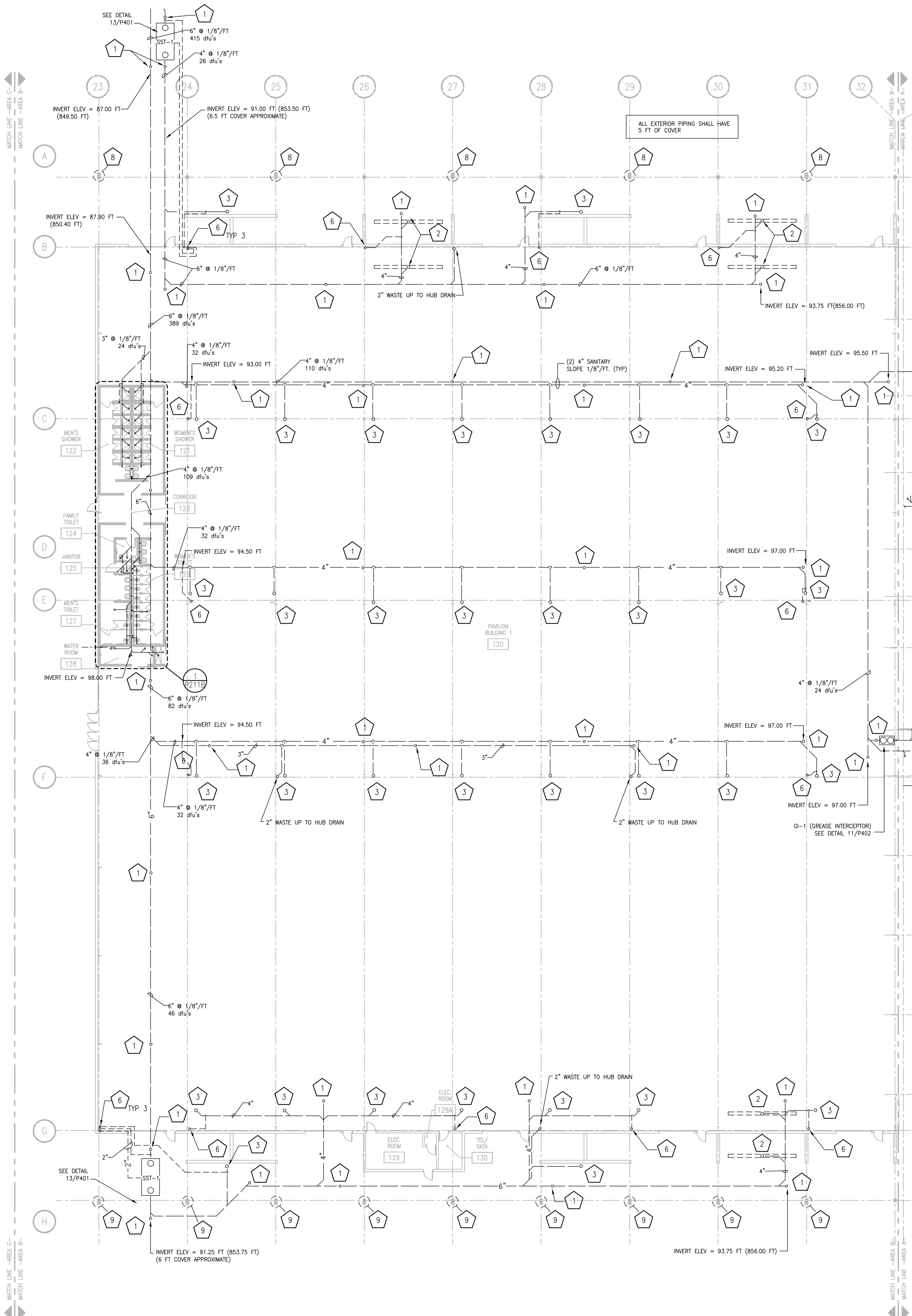


**FIRST FLOOR PLUMBING SUPPLY PLAN - AREA B**  
SCALE: 1/16" = 1'-0"  
0' 4' 8' 16' 24'

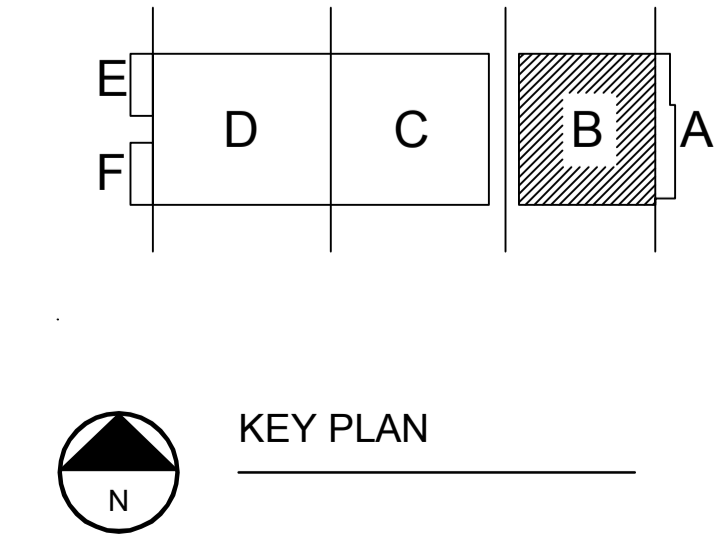
CARLOS RUZ 2009.6.30 2:27 PM K:\2013027\_02-P201B-S.DWG

PLUMBING UNDERSLAB GENERAL NOTES	
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	ALL WASTE PIPING TO BE 4" UNLESS NOTED OTHERWISE.
3.	ALL PIPING 3" AND LARGER TO BE SLOPED AT 1/8" PER FOOT
4.	ALL PIPING LESS THAN 3" TO BE SLOPED AT 1/4" PER FOOT

PLUMBING UNDERSLAB SPECIFIC NOTES	
1	UP TO CLEAN OUT
2	UP TO TRENCH DRAIN
3	UP TO FLOOR DRAIN
4	UP TO WATER CLOSET
5	3" VENT UP
6	2" VENT UP
7	1-1/2" VENT UP
8	9,000 SQ. FT., 346 GPM. 6" VERTICAL STORM, 6" @ 1/4"/FT OR 8" @ 1/8"/FT HORIZONTAL STORM. PLUMBER TO PROVIDE CONNECTION TO OUTER SYSTEM @ 20' A.F.G. (APPROX). ROUTE STORM THROUGH COLUMN & OUT BELOW GRADE TO SITE STORM. SEE DETAIL 4/P402.
9	6,500 SQ. FT., 250 GPM. 6" VERTICAL STORM, 6" @ 1/4"/FT HORIZONTAL STORM. SEE NOTE 8.
10	Not used
11	UP TO SINK.
12	UP TO HUB DRAIN.
13	UP TO FLOOR SINK.
14	UP TO MOP SINK.
15	UP TO LAVATORY.
16	UP TO SHOWER DRAIN.




**FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA B**  
 SCALE: 1/16" = 1'-0"  

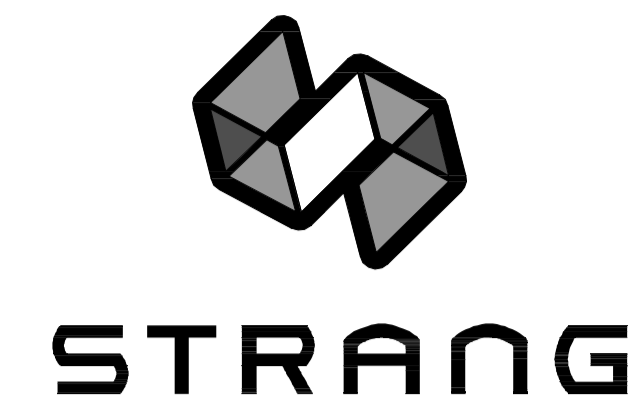
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR PLUMBING  
UNDERSLAB PLAN  
AREA B - BLD 1**

SHEET NO.  
**P201B-U**



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

PLUMBING WASTE GENERAL NOTES	
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHIN 3 FEET OF ANY ELECTRICAL PANEL. NO PIPING ABOVE OR BELOW THIS SPACE.
3.	NO PIPING SHALL BE INSTALLED ABOVE ACCESS PANELS

PLUMBING WASTE SPECIFIC NOTES	
1	CLEAN OUT
2	TD-1 TRENCH DRAIN
3	FD-1 FLOOR DRAIN
4	FD-2 FLOOR DRAIN
5	FD-3 FLOOR DRAIN
6	FD-4 FLOOR DRAIN
7	3" VENT DN
8	2" VENT DN
9	1-1/2" VENT DN
10	FS-1 FLOOR SINK
11	FS-2 FLOOR SINK

DRAWING SET	CD
COPYRIGHT	2013
FILE NAME	2013027_02-P201B-W.DWG
REVISIONS	

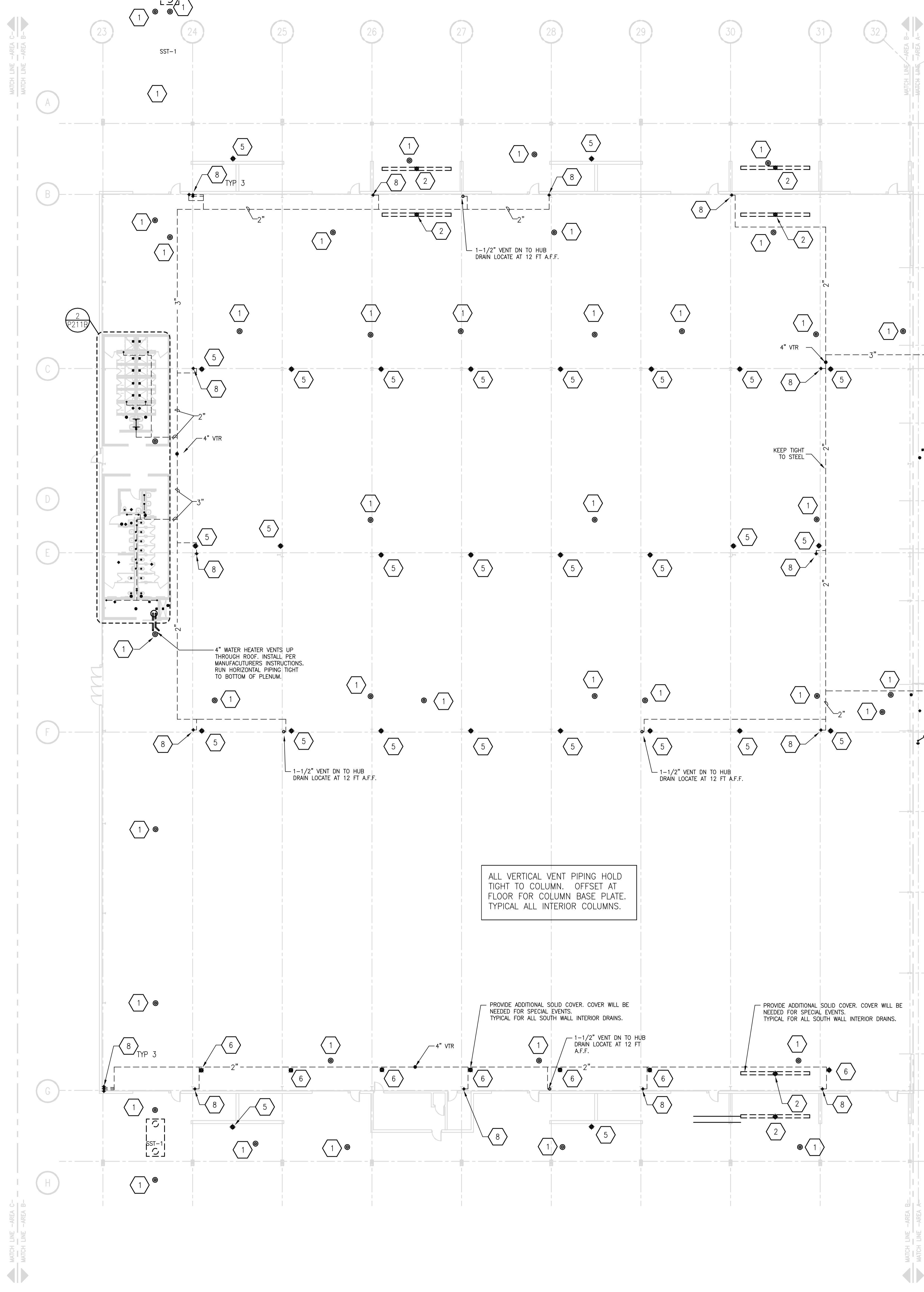
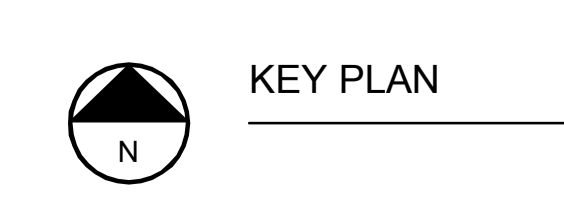
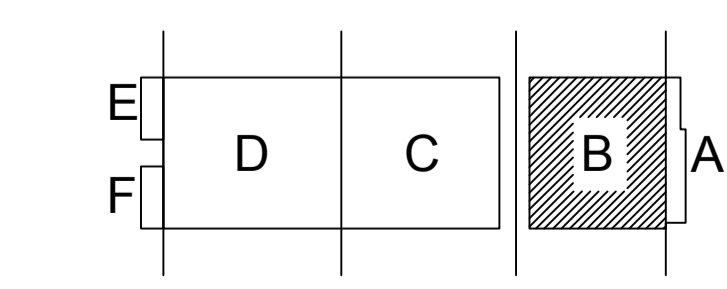
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PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR PLUMBING  
WASTE & VENT PLAN  
AREA B - BLD 1**

SHEET NO.  
**P201B-W**



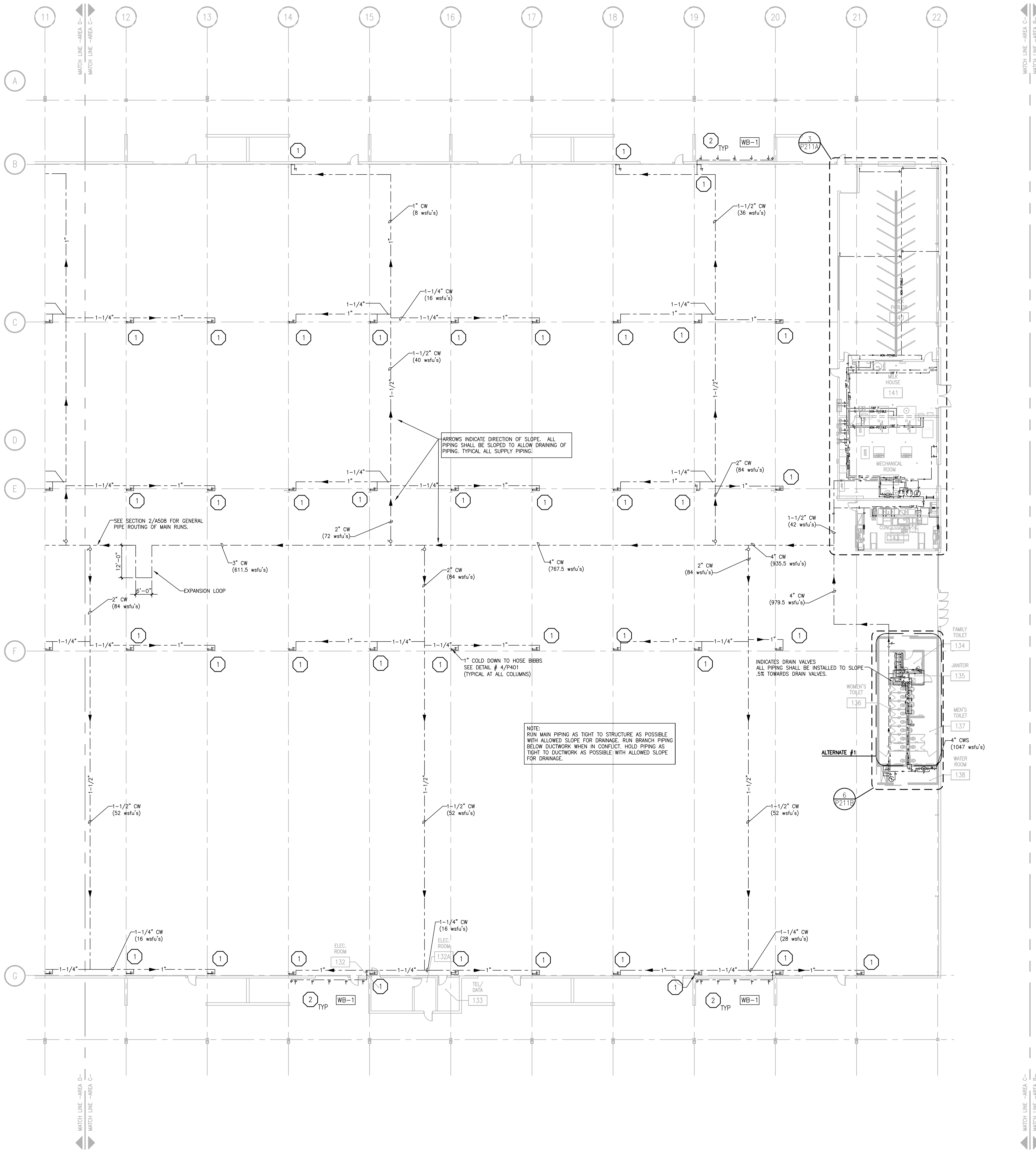
ALL VERTICAL VENT PIPING HOLD TIGHT TO COLUMN. OFFSET AT FLOOR FOR COLUMN BASE PLATE. TYPICAL ALL INTERIOR COLUMNS.

PROVIDE ADDITIONAL SOLID COVER. COVER WILL BE NEEDED FOR SPECIAL EVENTS. TYPICAL FOR ALL SOUTH WALL INTERIOR DRAINS.

PROVIDE ADDITIONAL SOLID COVER. COVER WILL BE NEEDED FOR SPECIAL EVENTS. TYPICAL FOR ALL SOUTH WALL INTERIOR DRAINS.

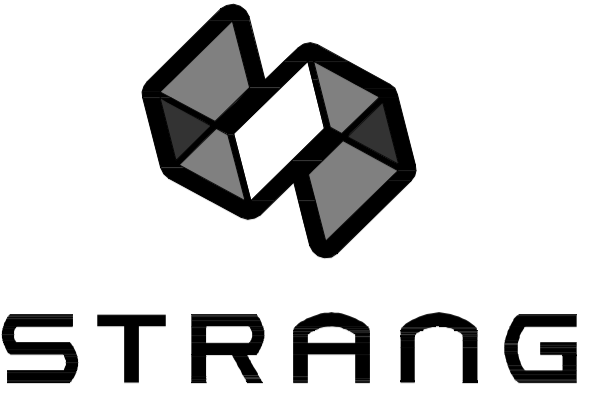
**FIRST FLOOR PLUMBING WASTE & VENT PLAN - AREA B**  
SCALE: 1/16" = 1'-0"  
0' 4' 8' 16' 24'

CARLOS RUZ 2009.06.30 2:27 PM K:\2013\01\3027 - ALLIANT ENERGY CENTER LIVES TOCK & EXHIBITION SPACE EXPANSION\2013027\_02 - ALLIANT ENERGY CENTER LIVES TOCK AND EXHIBITION HALL\DRAWINGS\2013027\_02-P201B-W.DWG  
 10/29/13 10:29:13 AM  
 10/29/13 10:29:13 AM  
 10/29/13 10:29:13 AM



GENERAL PLUMBING NOTES	
1.	ALL SINGLE FIXTURE LINES TO BE 1/2", ALL MULTIPLE FIXTURE LINES TO BE 3/4" UNLESS NOTED OTHERWISE.
2.	ALL SUPPLY PIPING TO INTERIOR COLUMN HOSE BIBBS TO BE 1". UNLESS NOTED OTHERWISE.
3.	PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS AND ACCESS PANELS.
4.	PIPING SHALL NOT DIMINISH IN SIZE OPPOSITE THE DIRECTION OF FLOW.
5.	ALL SHUT-OFF VALVES SHALL BE IN ACCESSIBLE LOCATIONS.
6.	PIPING SHALL BE ROUTED AS TIGHT TO STRUCTURE AS POSSIBLE.
7.	ALL PIPING IN BUILDING #2 (C & D) SHALL BE SLOPED TO ALLOW PIPING TO BE DRAINED FOR FREEZE PROTECTION.
8.	ROUTE ALL VERTICAL PIPING AS TIGHT TO COLUMN AS POSSIBLE.

PLUMBING SUPPLY SPECIFIC NOTES	
1	1" COLD WATER DOWN TO HOSE BIBBS. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAIL 4/P401.
2	1-1/4" COLD WATER DOWN TO WASH BAY STATION WB-4. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAILS 5/P401 & 6/P402.



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6415 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

DRAWING SET	CD
COPYRIGHT	2013
FILE NAME	2013027_02-P201C-S.DWG
REVISIONS	
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CHECKED	RG
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

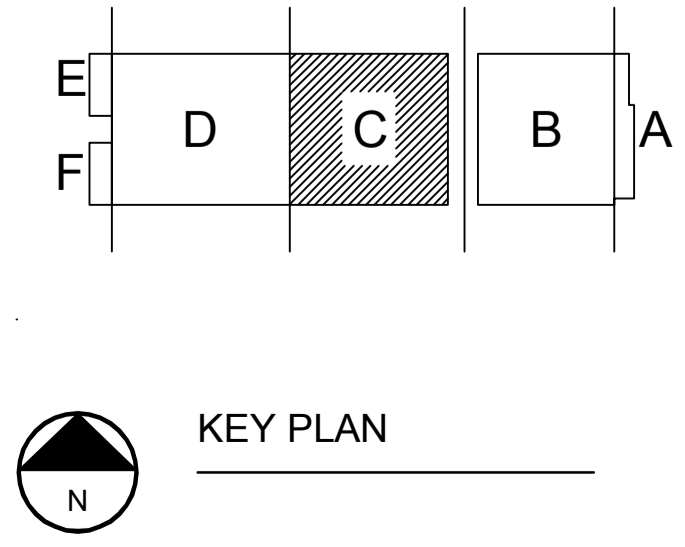
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MADISON, WISCONSIN 53713

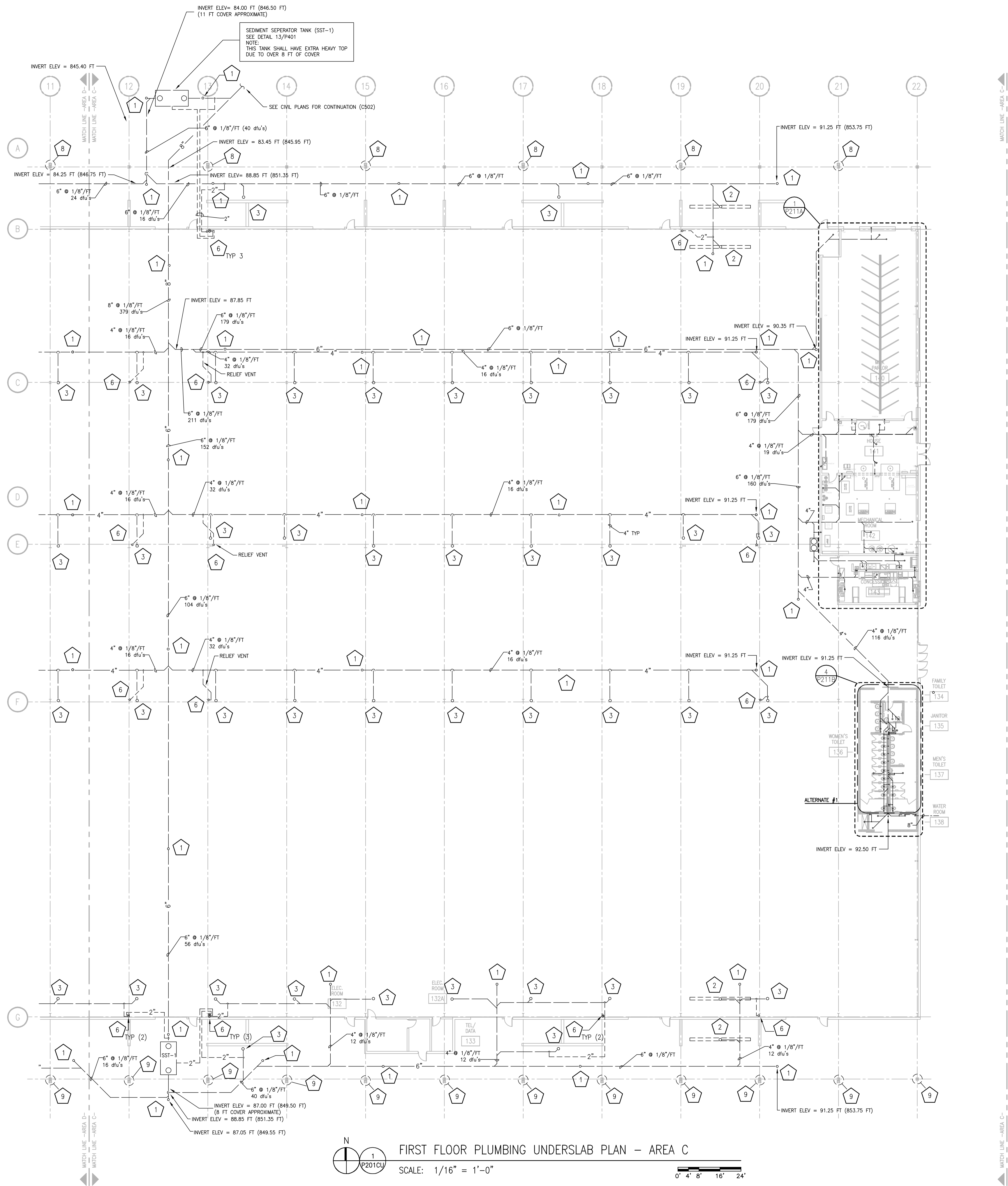
SHEET TITLE  
FIRST FLOOR  
PLUMBING SUPPLY  
PLAN AREA C - BLD 2

SHEET NO.  
P201C-S

CARLOS BUZ 2006-6-30 2:27 PM PL\_2013027\_02 - ALLIANT ENERGY CENTER LVESTOCK & EXHIBITION SPACE EXPANSION 2013027\_02 - ALLIANT ENERGY CENTER - LVESTOCK AND EXHIBITION HALL DRAWINGS 2013027\_02-P201C-S.DWG

N  
FIRST FLOOR PLUMBING SUPPLY PLAN - AREA C  
SCALE: 1/16" = 1'-0"  
0' 4' 8' 16' 24'





**PLUMBING UNDERSLAB GENERAL NOTES**

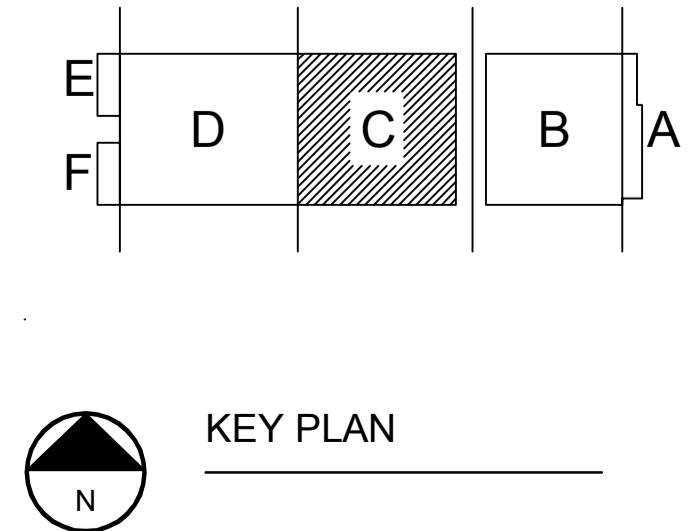
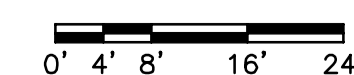
- ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
- ALL WASTE PIPING TO BE 4" UNLESS NOTED OTHERWISE.
- ALL PIPING 3" AND LARGER TO BE SLOPED AT 1/8" PER FOOT.
- ALL PIPING LESS THAN 3" TO BE SLOPED AT 1/4" PER FOOT.

**PLUMBING UNDERSLAB SPECIFIC NOTES**

- UP TO CLEAN OUT
- UP TO TRENCH DRAIN
- UP TO FLOOR DRAIN
- UP TO WATER CLOSET
- 3" VENT UP
- 2" VENT UP
- 1-1/2" VENT UP
- 3,000 SQFT, 346 GPM. 6" VERTICAL STORM, 6" @ 1/4"/FT OR 8" @ 1/8"/FT HORIZONTAL STORM. PLUMBER TO PROVIDE CONNECTION TO GUTTER SYSTEM @ 20' A.F.G. (APPROX). ROUTE STORM THROUGH COLUMN & OUT BELOW GRADE TO SITE STORM. SEE DETAIL 4/P402.
- 6,500 SQFT, 250 GPM. 6" VERTICAL STORM, 6" @ 1/8"/FT HORIZONTAL STORM. SEE NOTE 8.
- Not Used
- UP TO SINK.
- UP TO HUB DRAIN.
- UP TO FLOOR SINK.
- UP TO MOP SINK.
- UP TO LAVATORY.
- UP TO SHOWER DRAIN.

FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA C

SCALE: 1/16" = 1'-0"



DRAWING SET	CD
COPYRIGHT	2013
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FILE NAME	2013027_02-P201C-U.DWG
REVISIONS	

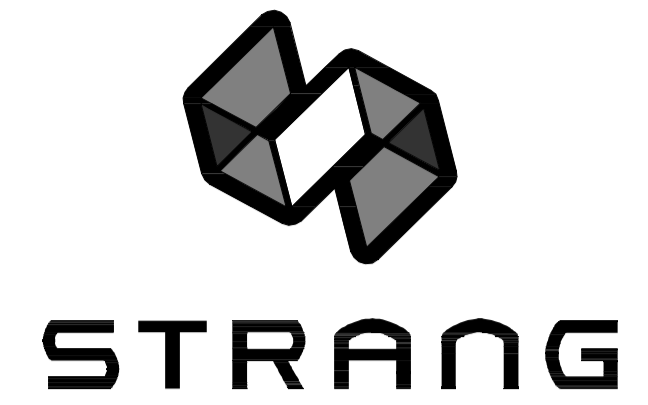
DRAWN	DF
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR PLUMBING UNDERSLAB PLAN AREA C - BLD 2**

SHEET NO.  
**P201C-U**

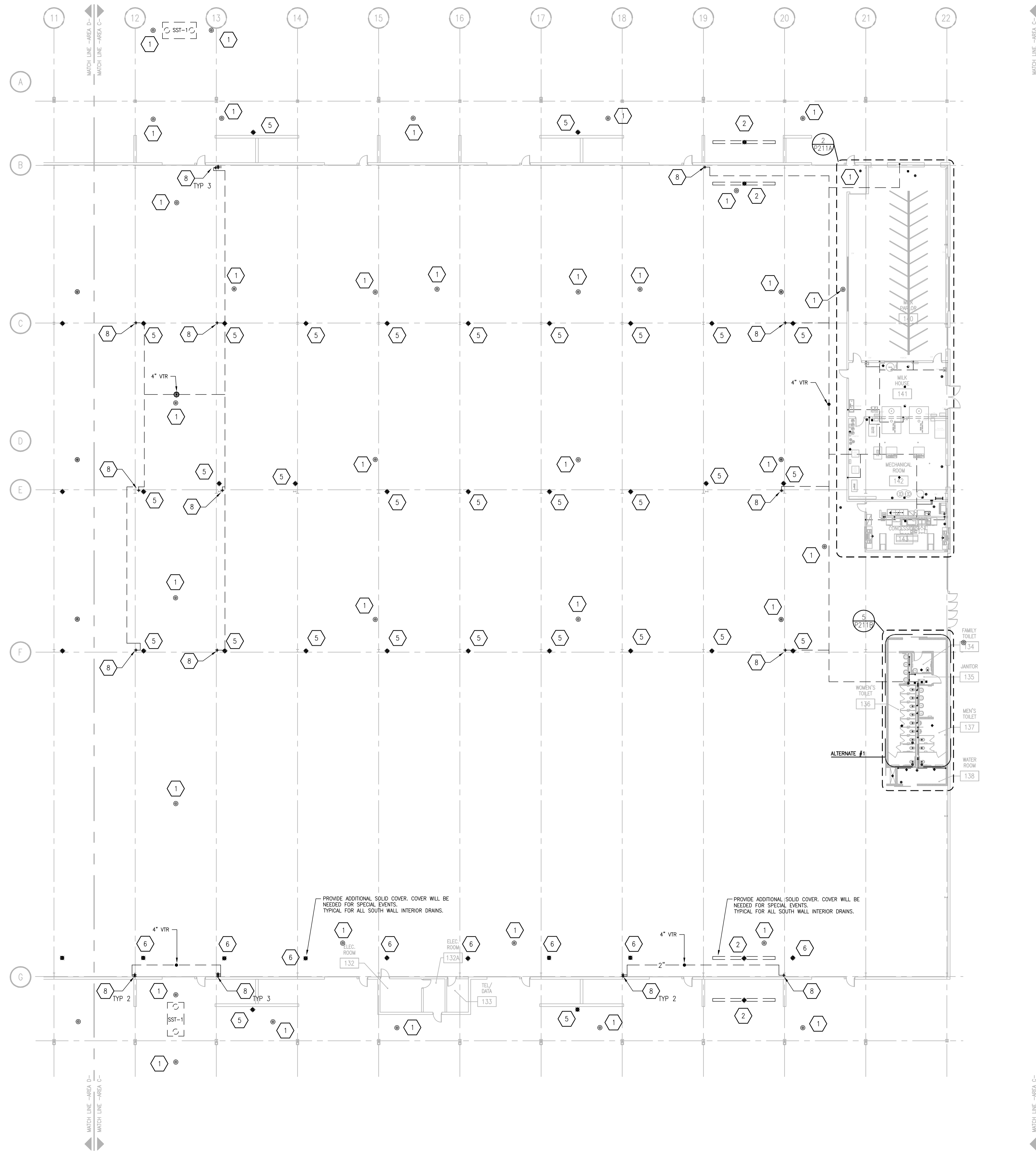


ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6413 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 278 9200  
F/ 608 278 9204

PLUMBING WASTE GENERAL NOTES	
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHIN 3 FEET OF ANY ELECTRICAL PANEL. NO PIPING ABOVE OR BELOW THIS SPACE.
3.	NO PIPING SHALL BE INSTALLED ABOVE ACCESS PANELS

PLUMBING WASTE SPECIFIC NOTES	
1	CLEAN OUT
2	TD-1 TRENCH DRAIN
3	FD-1 FLOOR DRAIN
4	FD-2 FLOOR DRAIN
5	FD-3 FLOOR DRAIN
6	FD-4 FLOOR DRAIN
7	3" VENT DN
8	2" VENT DN
9	1-1/2" VENT DN
10	FS-1 FLOOR SINK
11	FS-2 FLOOR SINK



**FIRST FLOOR PLUMBING WASTE & VENT PLAN - AREA C**  
SCALE: 1/16" = 1'-0"  
0' 4' 8' 16' 24'

DRAWING SET	CD
COPYRIGHT	2013
FILE NAME	2013027_02-P201C-W.DWG
REVISIONS	

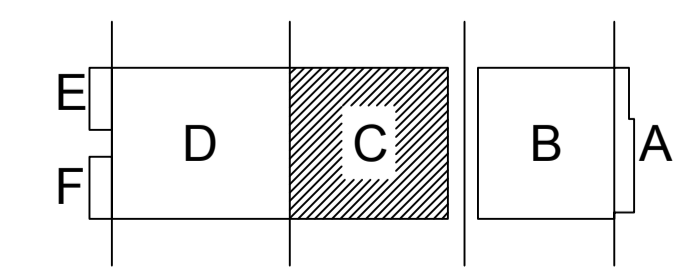
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

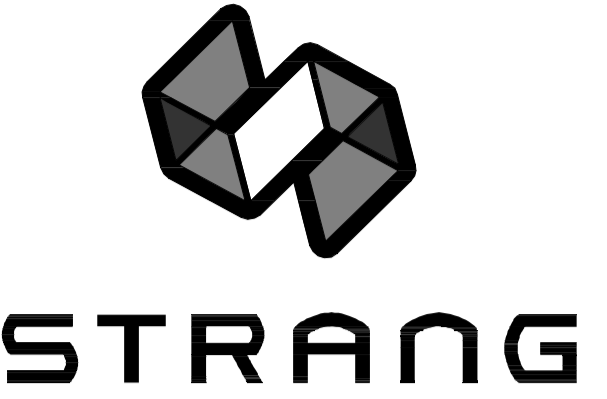
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**FIRST FLOOR PLUMBING  
WASTE & VENT PLAN  
AREA C - BLD 2**

SHEET NO.  
**P201C-W**



KEY PLAN

2013027\_02-P201C-W.DWG  
 10/29/13 10:29 AM  
 CARLOS BLIZ - 227 PM  
 ALLIANT ENERGY CENTER PAVILIONS & EXHIBITION SPACE EXPANSION 2013027\_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALL DRAWINGS 2013027\_02.P201C-W.DWG

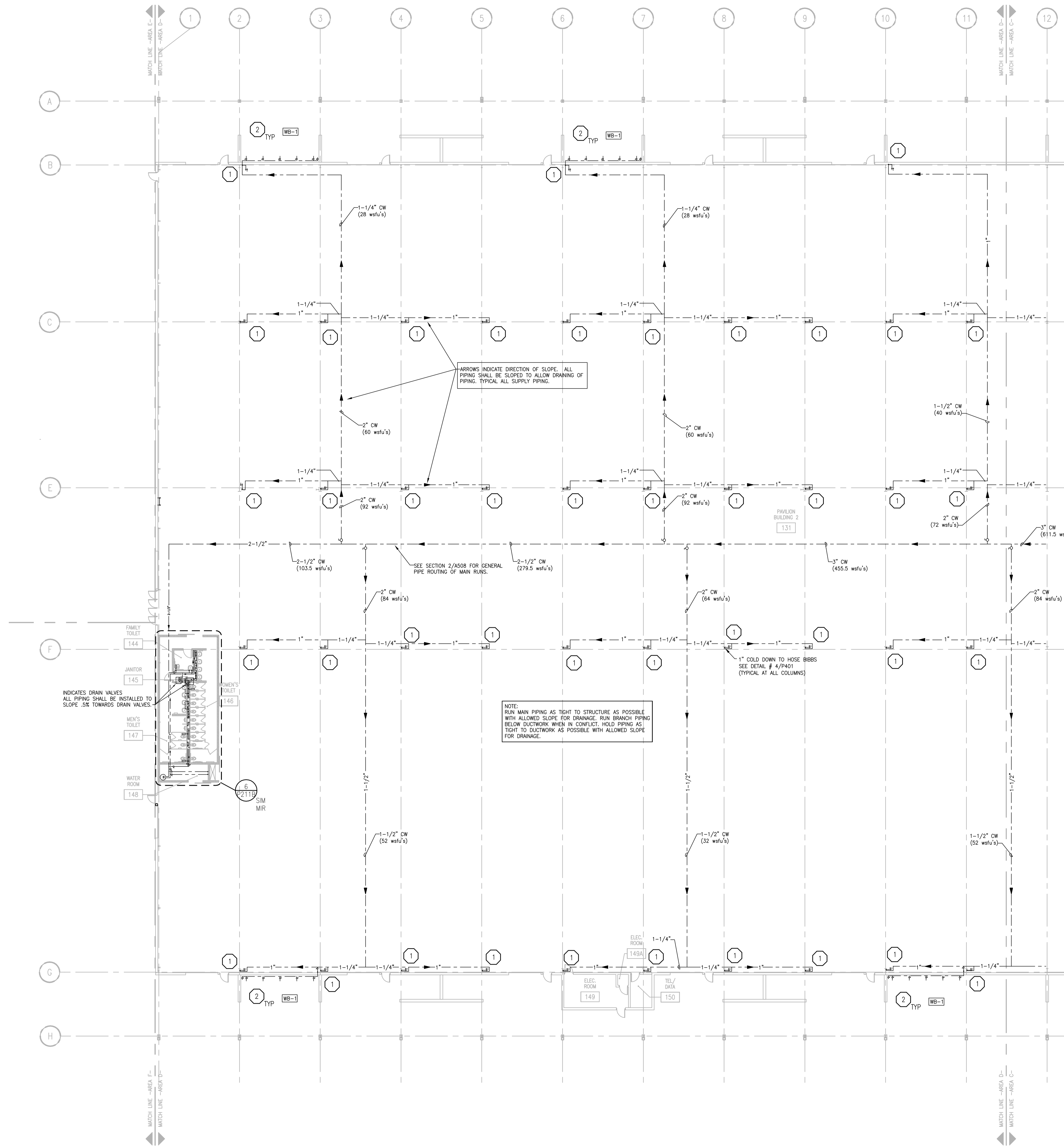


ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6413 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

GENERAL PLUMBING NOTES	
1.	ALL SINGLE FIXTURE LINES TO BE 1/2", ALL MULTIPLE FIXTURE LINES TO BE 3/4" UNLESS NOTED OTHERWISE.
2.	ALL SUPPLY PIPING TO INTERIOR COLUMN HOSE BIBBS TO BE 1". UNLESS NOTED OTHERWISE.
3.	PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS AND ACCESS PANELS.
4.	PIPING SHALL NOT DIMINISH IN SIZE OPPOSITE THE DIRECTION OF FLOW.
5.	ALL SHUT-OFF VALVES SHALL BE IN ACCESSIBLE LOCATIONS.
6.	PIPING SHALL BE ROUTED AS TIGHT TO STRUCTURE AS POSSIBLE.
7.	ALL PIPING IN BUILDING #2 (C & D) SHALL BE SLOPED TO ALLOW PIPING TO BE DRAINED FOR FREEZE PROTECTION.
8.	ROUTE ALL VERTICAL PIPING AS TIGHT TO COLUMN AS POSSIBLE.

PLUMBING SUPPLY SPECIFIC NOTES	
1	1" COLD WATER DOWN TO HOSE BIBBS. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAIL 4/P401.
2	1-1/4" COLD WATER DOWN TO WASH BAY STATION WB-4. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAILS 5/P401 & 6/P402.



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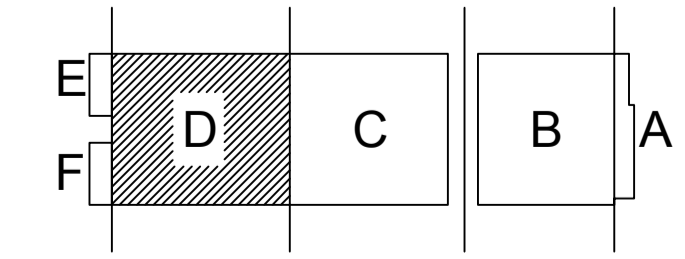
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**FIRST FLOOR  
PLUMBING SUPPLY  
PLAN AREA D- BLD 2**

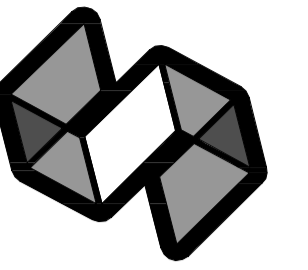
SHEET NO.  
**P201D-S**



**FIRST FLOOR PLUMBING SUPPLY PLAN - AREA D**  
SCALE: 1/16" = 1'-0"  
0' 4' 8' 16' 24'

CARLOS BUZ 2008-6-30 2:27 PM PL\_2013027\_02 - ALLIANT ENERGY CENTER LIFESTOCK & EXHIBITION SPACE EXPANSION 2013027\_02 - ALLIANT ENERGY CENTER - LIFESTOCK AND EXHIBITION HALL DRAWINGS 2013027\_02-P201D-S.DWG





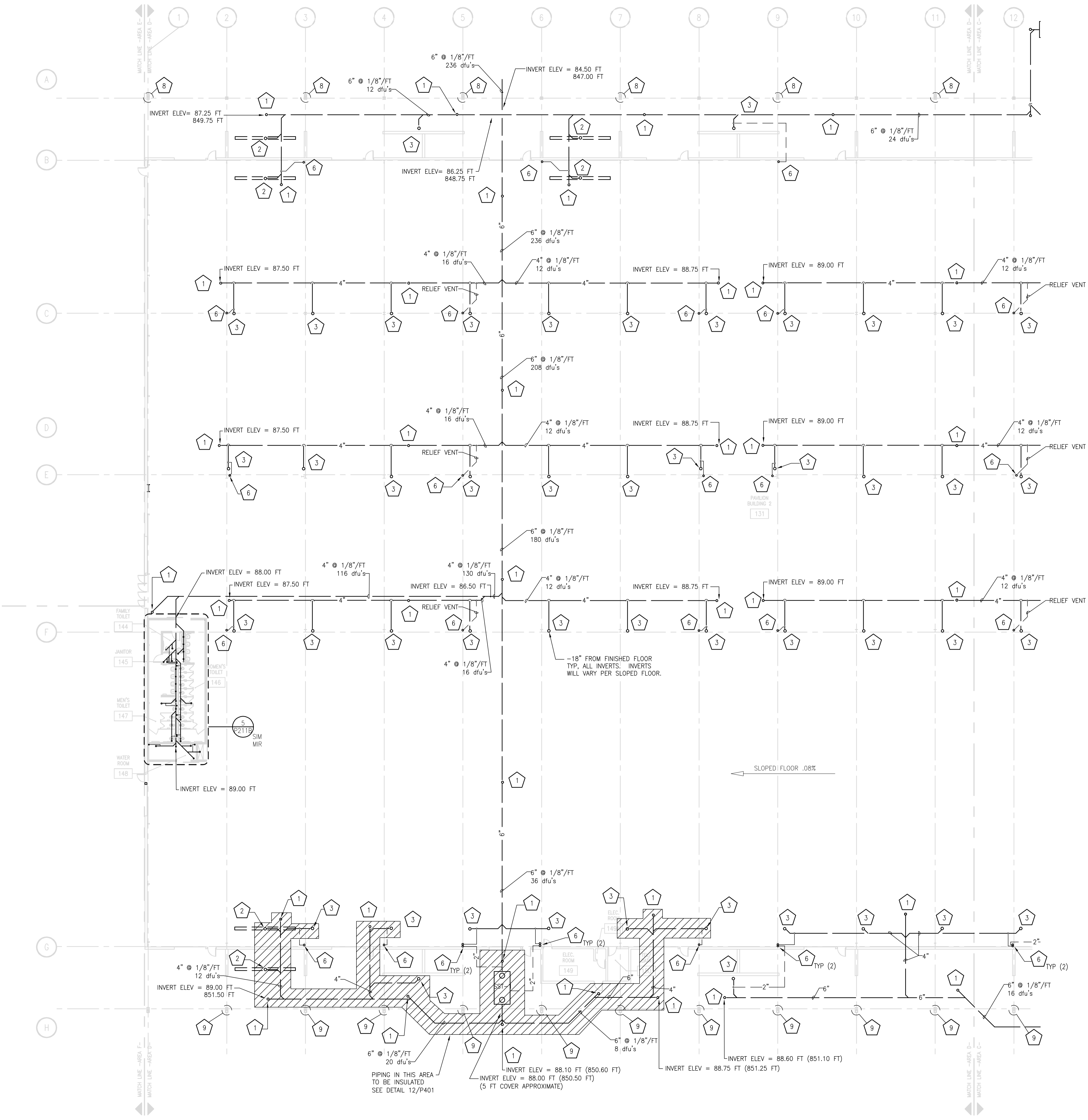
STRANG

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

PLUMBING UNDERSLAB GENERAL NOTES	
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	ALL WASTE PIPING TO BE 4" UNLESS NOTED OTHERWISE.
3.	ALL PIPING 3" AND LARGER TO BE SLOPED AT 1/8" PER FOOT
4.	ALL PIPING LESS THAN 3" TO BE SLOPED AT 1/4" PER FOOT

PLUMBING UNDERSLAB SPECIFIC NOTES	
1	UP TO CLEAN OUT
2	UP TO TRENCH DRAIN
3	UP TO FLOOR DRAIN
4	UP TO WATER CLOSET
5	3" VENT UP
6	2" VENT UP
7	1-1/2" VENT UP
8	9,000 SQ. FT, 346 GPM. 6" VERTICAL STORM, 6" @ 1/4"/FT OR 8" @ 1/8"/FT HORIZONTAL STORM. PLUMBER TO PROVIDE CONNECTION TO GUTTER SYSTEM @ 20' A.F.G. (APPROX). ROUTE STORM THROUGH COLUMN & OUT BELOW GRADE TO SITE STORM. SEE DETAIL 4/P402.
9	6,500 SQ. FT, 250 GPM. 6" VERTICAL STORM, 6" @ 1/8"/FT HORIZONTAL STORM. SEE NOTE 8.
10	Not Used
11	UP TO SINK.
12	UP TO HUB DRAIN.
13	UP TO FLOOR SINK.
14	UP TO MOP SINK.
15	UP TO LAVATORY.
16	UP TO SHOWER DRAIN.



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FILE NAME	2013027_02-P201D-U.DWG
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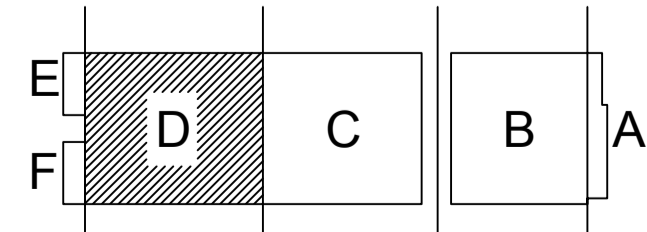
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CHECKED	RG
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

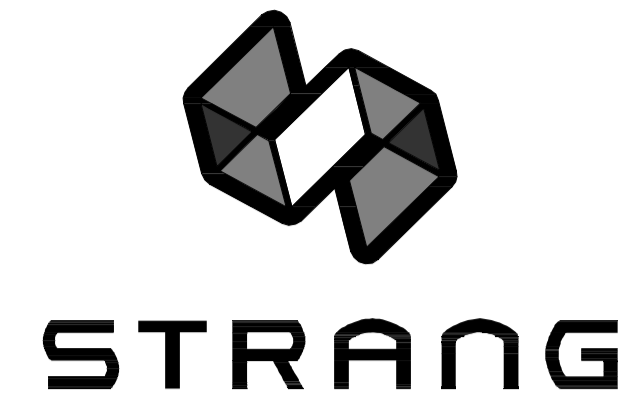
SHEET TITLE  
**FIRST FLOOR PLUMBING  
UNDERSLAB PLAN  
AREA D- BLD 2**

SHEET NO.  
**P201D-U**



FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA D  
SCALE: 1/16" = 1'-0"

CARLOS RUIZ, 2009.6.30, 2:27 PM, 1/16" = 1'-0", ALLIANT ENERGY CENTER LIVES TOOK & EXHIBITION SPACE EXPANSION 2013027\_02 - ALLIANT ENERGY CENTER LIVES TOOK & EXHIBITION HALL DRAWINGS 2013027\_02-P201D.UWG

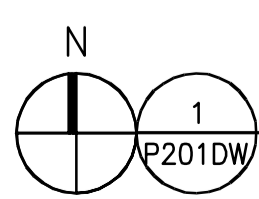
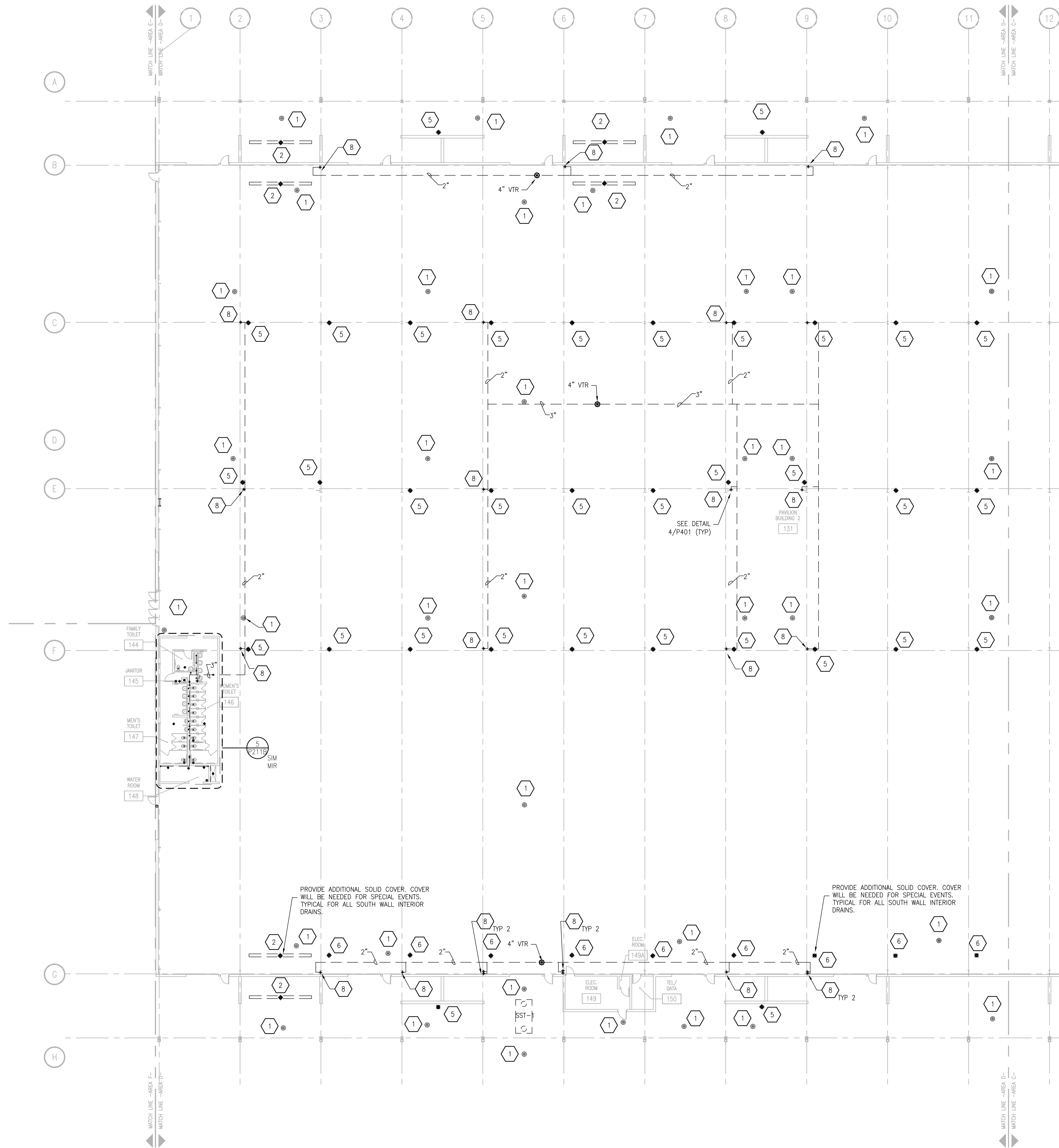


ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6413 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

PLUMBING WASTE GENERAL NOTES	
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHIN 3 FEET OF ANY ELECTRICAL PANEL. NO PIPING ABOVE OR BELOW THIS SPACE.
3.	NO PIPING SHALL BE INSTALLED ABOVE ACCESS PANELS

PLUMBING WASTE SPECIFIC NOTES	
1	CLEAN OUT
2	TD-1 TRENCH DRAIN
3	FD-1 FLOOR DRAIN
4	FD-2 FLOOR DRAIN
5	FD-3 FLOOR DRAIN
6	FD-4 FLOOR DRAIN
7	3" VENT DN
8	2" VENT DN
9	1-1/2" VENT DN
10	FS-1 FLOOR SINK
11	FS-2 FLOOR SINK



FIRST FLOOR PLUMBING WASTE & VENT PLAN - AREA D

SCALE: 1/16" = 1'-0"



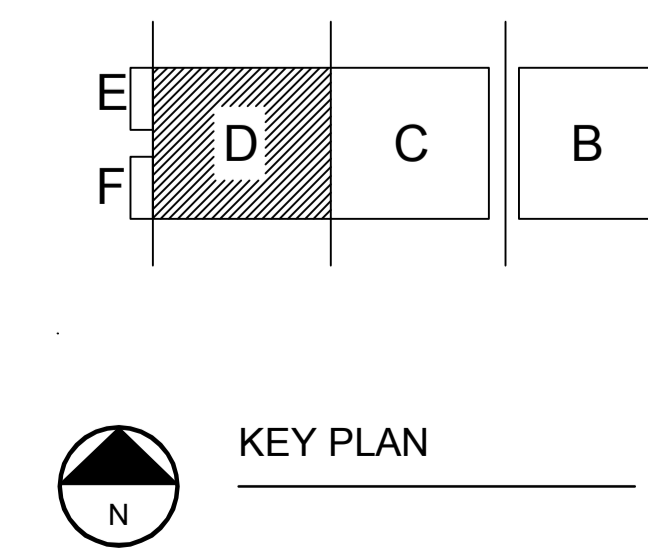
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PROJECT NO.	2013027_02
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ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

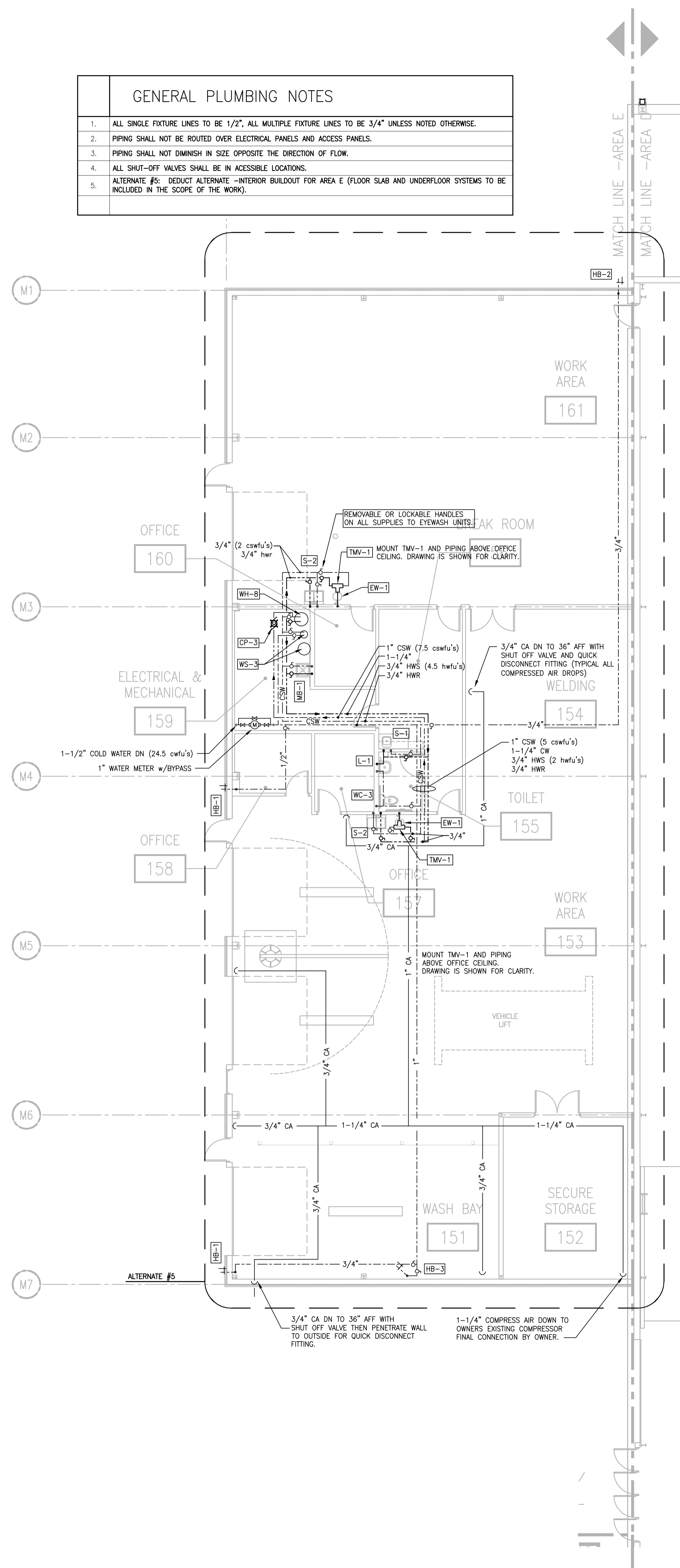
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SHEET NO.  
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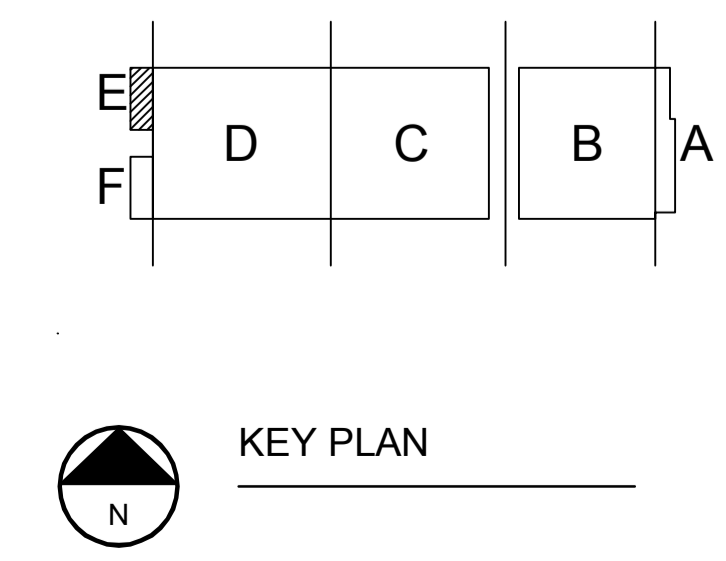


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GENERAL PLUMBING NOTES	
1.	ALL SINGLE FIXTURE LINES TO BE 1/2". ALL MULTIPLE FIXTURE LINES TO BE 3/4" UNLESS NOTED OTHERWISE.
2.	PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS AND ACCESS PANELS.
3.	PIPING SHALL NOT DIMINISH IN SIZE OPPOSITE THE DIRECTION OF FLOW.
4.	ALL SHUT-OFF VALVES SHALL BE IN ACCESSIBLE LOCATIONS.
5.	ALTERNATE #5: DEDUCT ALTERNATE - INTERIOR BUILDOUT FOR AREA E (FLOOR SLAB AND UNDERFLOOR SYSTEMS TO BE INCLUDED IN THE SCOPE OF THE WORK).



N  
1  
P201E-S  
PLUMBING SUPPLY PLAN - AREA E  
SCALE: 1/8" = 1'-0" 0 2 4 6 8 16



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PROJECT NO.	2013027_02
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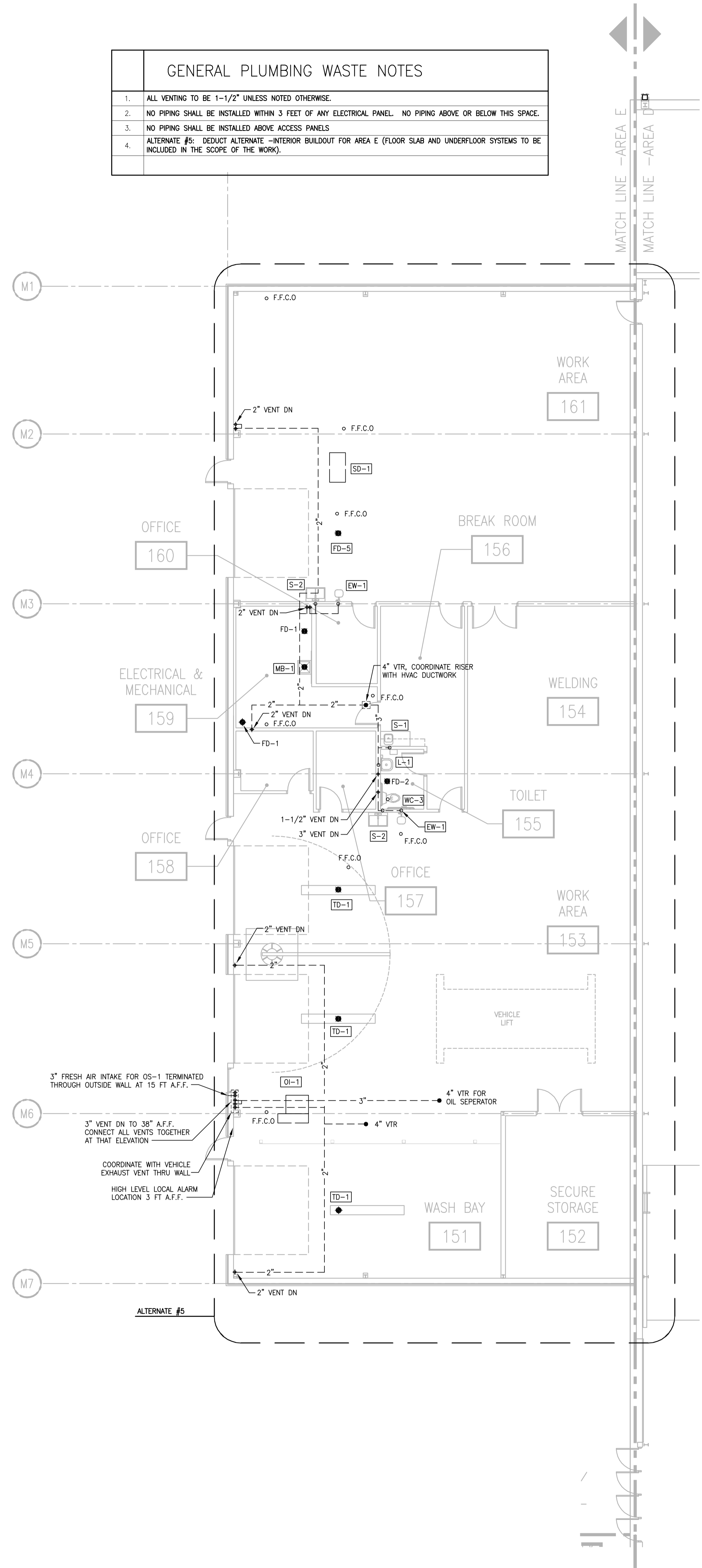
**ALLIANT ENERGY CENTER PAVILIONS  
BLD # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
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PLUMBING SUPPLY  
PLAN AREA E - BLD 2**

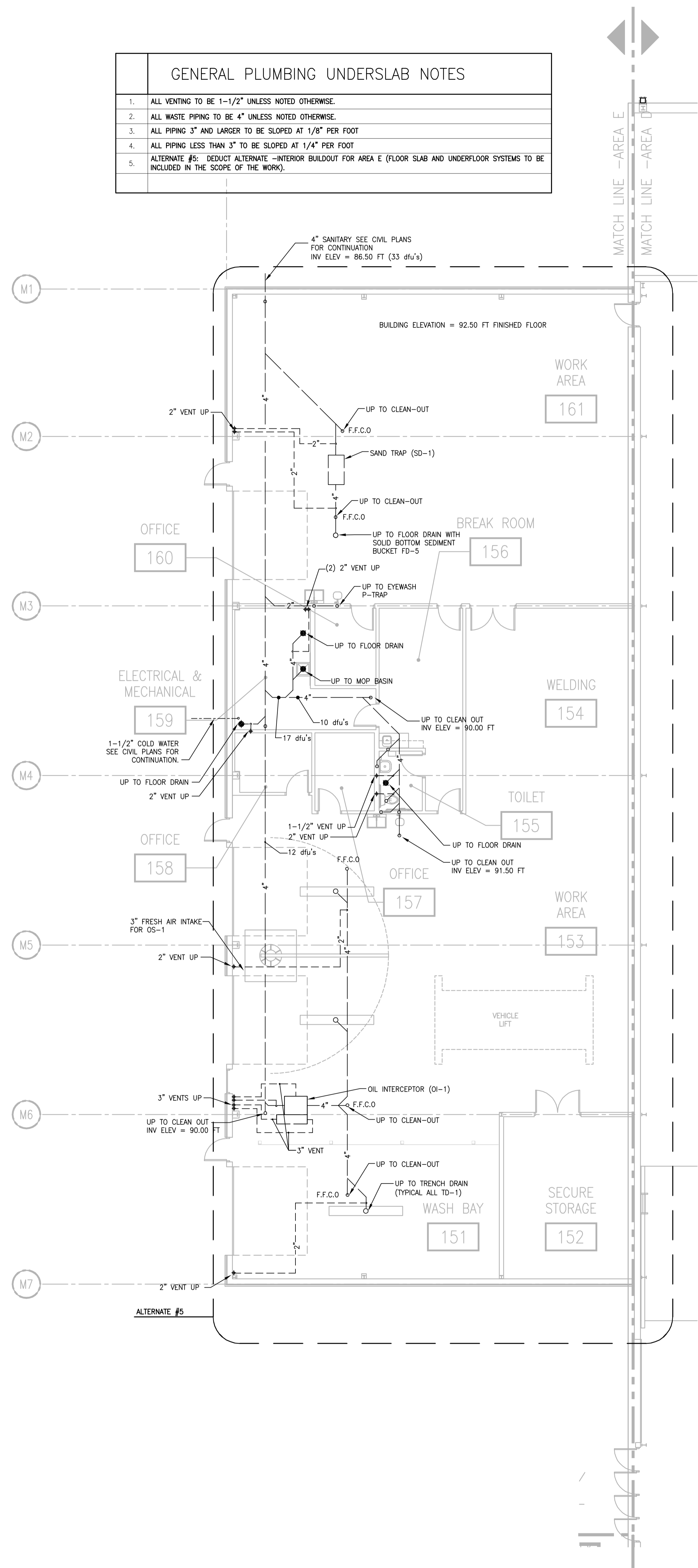
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GENERAL PLUMBING WASTE NOTES	
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHIN 3 FEET OF ANY ELECTRICAL PANEL. NO PIPING ABOVE OR BELOW THIS SPACE.
3.	NO PIPING SHALL BE INSTALLED ABOVE ACCESS PANELS.
4.	ALTERNATE #5: DEDUCT ALTERNATE -INTERIOR BUILDOUT FOR AREA E (FLOOR SLAB AND UNDERFLOOR SYSTEMS TO BE INCLUDED IN THE SCOPE OF THE WORK).

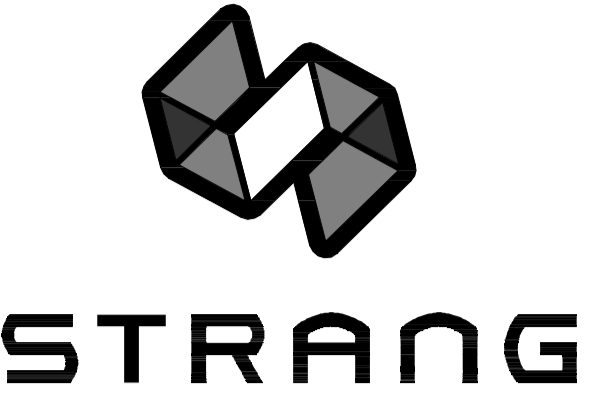


PLUMBING WASTE PLAN - AREA E  
SCALE: 1/8" = 1'-0"  
0' 2' 4' 8' 12'

GENERAL PLUMBING UNDERSLAB NOTES	
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	ALL WASTE PIPING TO BE 4" UNLESS NOTED OTHERWISE.
3.	ALL PIPING 3" AND LARGER TO BE SLOPED AT 1/8" PER FOOT.
4.	ALL PIPING LESS THAN 3" TO BE SLOPED AT 1/4" PER FOOT.
5.	ALTERNATE #5: DEDUCT ALTERNATE -INTERIOR BUILDOUT FOR AREA E (FLOOR SLAB AND UNDERFLOOR SYSTEMS TO BE INCLUDED IN THE SCOPE OF THE WORK).



PLUMBING UNDERSLAB PLAN - AREA E  
SCALE: 1/8" = 1'-0"  
0' 2' 4' 8' 12'



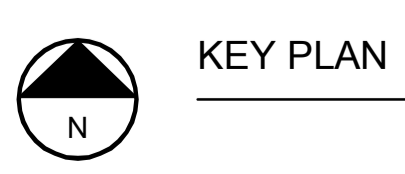
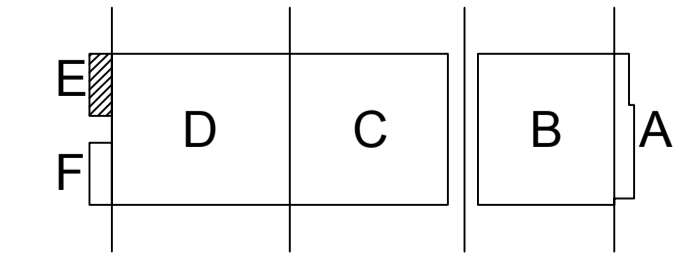
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BID # 313072

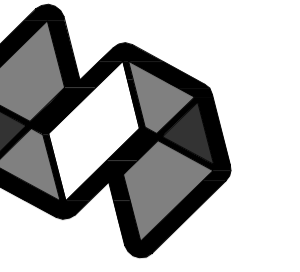
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MADISON, WISCONSIN 53713



SHEET TITLE  
FIRST FLOOR  
PLUMBING WASTE  
PLANS AREA E - BLD 2

SHEET NO.  
P201E-W

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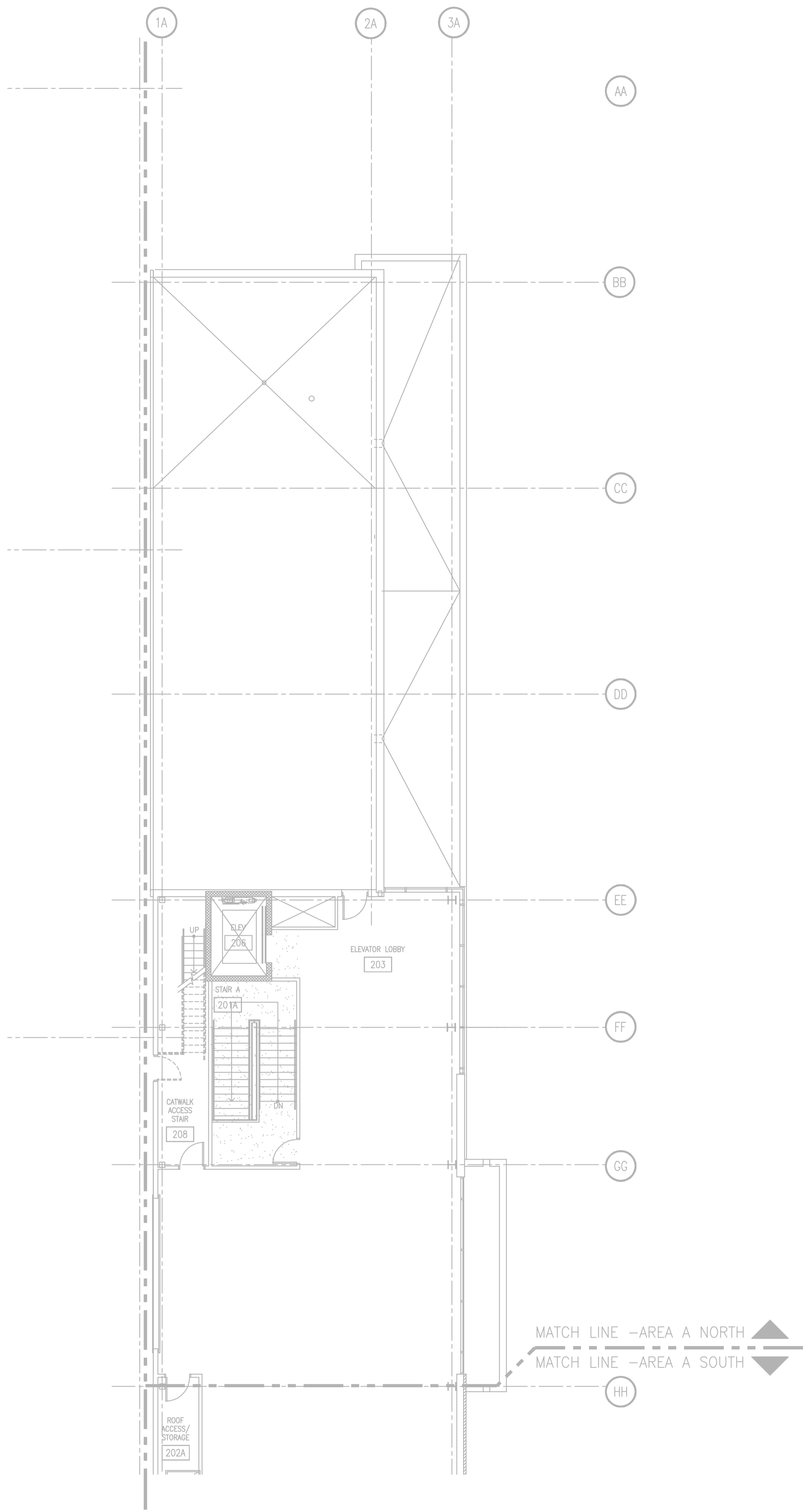


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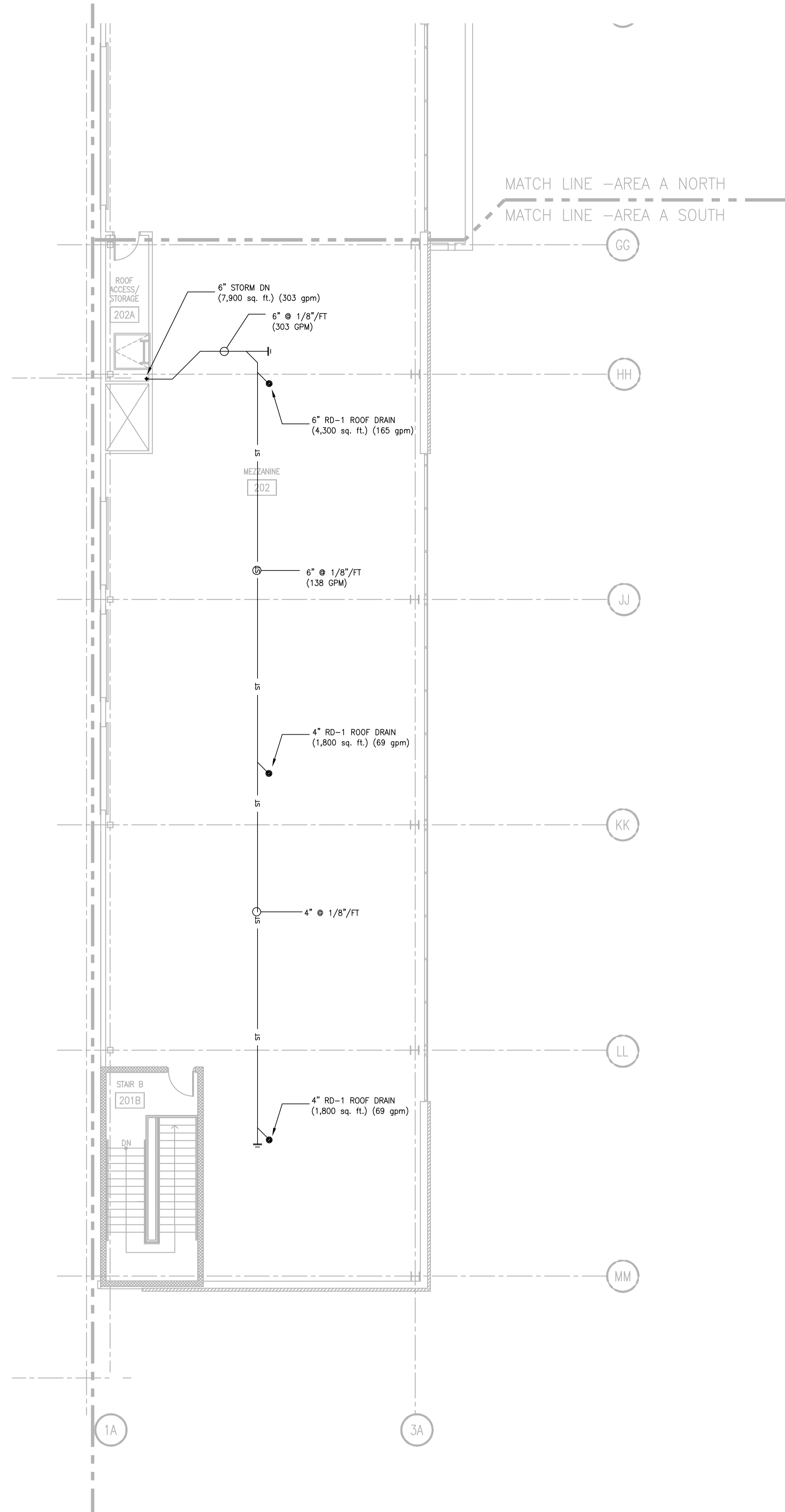
ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

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MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

PLUMBING WASTE GENERAL NOTES	
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHIN 3 FEET OF ANY ELECTRICAL PANEL. NO PIPING ABOVE OR BELOW THIS SPACE.
3.	NO PIPING SHALL BE INSTALLED ABOVE ACCESS PANELS.
4.	ALL ABOVE GRADE STORM PIPING IN AREA "A" TO BE CAST IRON.



MEZZANINE PLUMBING WASTE PLAN - AREA A - NORTH  
SCALE: 1/8" = 1'-0"

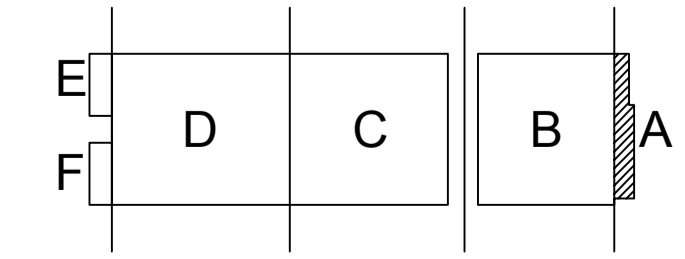


MEZZANINE PLUMBING WASTE PLAN - AREA A - SOUTH  
SCALE: 1/8" = 1'-0"

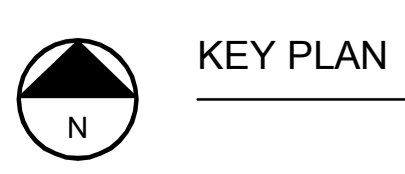
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ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

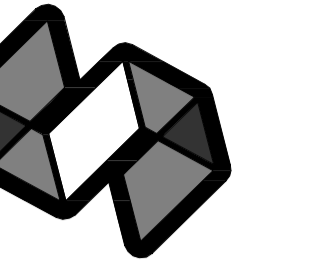


SHEET TITLE  
MEZZANINE PLUMBING WASTE PLAN AREA A - BLD 1



SHEET NO.  
P202A-W

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F/ 608 276 9204

**PLUMBING SUPPLY GENERAL NOTES**

1. ALL SINGLE FIXTURE LINES TO BE 1/2", ALL MULTIPLE FIXTURE LINES TO BE 3/4" UNLESS NOTED OTHERWISE.
2. PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS AND ACCESS PANELS.
3. PIPING SHALL NOT DIMINISH IN SIZE OPPOSITE THE DIRECTION OF FLOW.
4. ALL SHUT-OFF VALVES SHALL BE IN ACCESSIBLE LOCATIONS.

**PLUMBING WASTE GENERAL NOTES**

1. ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2. NO PIPING SHALL BE INSTALLED WITHIN 3 FEET OF ANY ELECTRICAL PANEL. NO PIPING ABOVE OR BELOW THIS SPACE.
3. NO PIPING SHALL BE INSTALLED ABOVE ACCESS PANELS

**PLUMBING UNDERSLAB GENERAL NOTES**

1. ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2. ALL WASTE PIPING TO BE 2" UNLESS NOTED OTHERWISE.
3. ALL PIPING 3" AND LARGER TO BE SLOPED AT 1/8" PER FOOT
4. ALL PIPING LESS THAN 3" TO BE SLOPED AT 1/4" PER FOOT

**PLUMBING SUPPLY SPECIFIC NOTES**

- 1 1/2" COLD DOWN TO BALL VALVE & THREADED FITTING. SET OUTLET AT 36" AFF.
- 1/2" 160F HOT AND COLD DOWN TO BALL VALVES & THREADED FITTING. SET OUTLET AT 36" AFF.
- 1/2" 120F HOT AND COLD DOWN TO HAND SINK.
- 1/2" 160F HOT AND COLD DOWN TO BALL VALVES & THREADED FITTING. SET OUTLET AT 42" AFF.
- 1/2" 160F HOT AND COLD DOWN TO BALL VALVES & THREADED FITTING. SET OUTLET AT 42" AFF WITH 1/2" 909 QTS ASSE 1013 BACKFLOW PREVENTOR ON EACH LINE.
- 1/2" HOT AND COLD DOWN TO HAND SINK.
- 3/4" HOT AND COLD DOWN TO SCULLERY SINK.
- 1/2" COLD DOWN TO OVEN WITH WATTS 90 (ASSE 1012 BACKFLOW PREVENTOR).
- 1/2" HOT AND COLD DOWN TO MOP BASIN.
- 1/2" COLD DOWN WALL AND OVER TO SODA MACHINE WITH INLINE WATTS SD-3 (ASSE 1022) BACKFLOW PREVENTOR.
- 3/4" COLD DOWN WALL AND OVER TO ICE MAKER WITH INLINE WATTS SD-3 (ASSE 1022) BACKFLOW PREVENTOR.
- 1/2" 160F HOT AND COLD DOWN TO HAND SINK.

**PLUMBING WASTE SPECIFIC NOTES**

- 1 CLEAN OUT
- 2 TD-1 TRENCH DRAIN
- 3 FD-1 FLOOR DRAIN
- 4 FD-2 FLOOR DRAIN
- 5 FD-3 FLOOR DRAIN
- 6 FD-4 FLOOR DRAIN
- 7 3" VENT DN
- 8 2" VENT DN
- 9 1-1/2" VENT DN
- 10 PS-1 FLOOR SINK
- 11 PS-2 FLOOR SINK
- 12 SINK
- 13 MOP BASIN
- 14 HUB DRAIN, 4" OUTLET
- 15 WALL CLEAN OUT

**PLUMBING UNDERSLAB SPECIFIC NOTES**

- 1 UP TO CLEAN OUT
- 2 UP TO TRENCH DRAIN
- 3 UP TO FLOOR DRAIN
- 4 UP TO WATER CLOSET
- 5 3" VENT UP
- 6 2" VENT UP
- 7 1-1/2" VENT UP
- 16,200 SQFT, 623 GPM, 8" VERTICAL STORM, 8" @ 1/4" FT HORIZONTAL STORM. PLUMBER TO PROVIDE CONNECTION TO GUTTER SYSTEM @ 20' A.F.G. (APPROX). ROUTE STORM THROUGH COLUMN & OUT BELOW GRADE TO SITE STORM. SEE DETAIL 4/P402.
- 13,500 SQFT, 519 GPM, 6" VERTICAL STORM, 6" @ 1/4" FT HORIZONTAL STORM. SEE NOTE 8.
- 18,900 SQFT, 726 GPM, 8" VERTICAL STORM, 10" @ 1/4" FT HORIZONTAL STORM. SEE NOTE 8
- UP TO SINK.
- UP TO HUB DRAIN.
- UP TO FLOOR SINK.
- UP TO MOP SINK.
- UP TO LAVATORY.
- UP TO SHOWER DRAIN.

**CONCESSION AREA NOTES:**

- SEE FOOD SERVICE EQUIPMENT (FSE) DOCUMENTS FOR DETAILED INFORMATION ON EQUIPMENT PROVIDED BY FSE CONTRACTOR, INSTALLATION REQUIREMENTS, AND MECH/ELEC/PLUMBING CONNECTIONS TO EQUIPMENT.
- COORDINATE INSTALLATION OF ITEMS SHOWN WITH ALL OTHER TRADES. INSTALLATION MAY NEED TO BE PHASED DUE TO WORK OF OTHER TRADES.
- FLOOR SINKS, FLOOR DRAINS, AND MOP BASIN WILL BE PROVIDED BY PLUMBING CONTRACTOR.
- HAND SINKS, FAUCETS, AND OTHER ASSOCIATED KITCHEN EQUIPMENT BY FOOD SERVICE CONSULTANT, INSTALLATION AND FINAL CONNECTIONS BY PLUMBING CONTRACTOR.
- GREASE INTERCEPTOR PROVIDED BY PLUMBING CONTRACTOR, PLUMBING CONTRACTOR TO PROVIDE OWNER WITH INFORMATION ON INSTALLATION AND UNIT COST.
- ALL SUPPLY, WASTE AND VENT PIPING, INCLUDING ALL APPURTENANCES FOR COMPLETE AND OPERATION SYSTEM SHALL BE PART OF PLUMBING CONTRACTOR'S SCOPE, INCLUDING BACKFLOW DEVICES, SHUT-OFF VALVES, AND INDIRECT WASTE PIPING.

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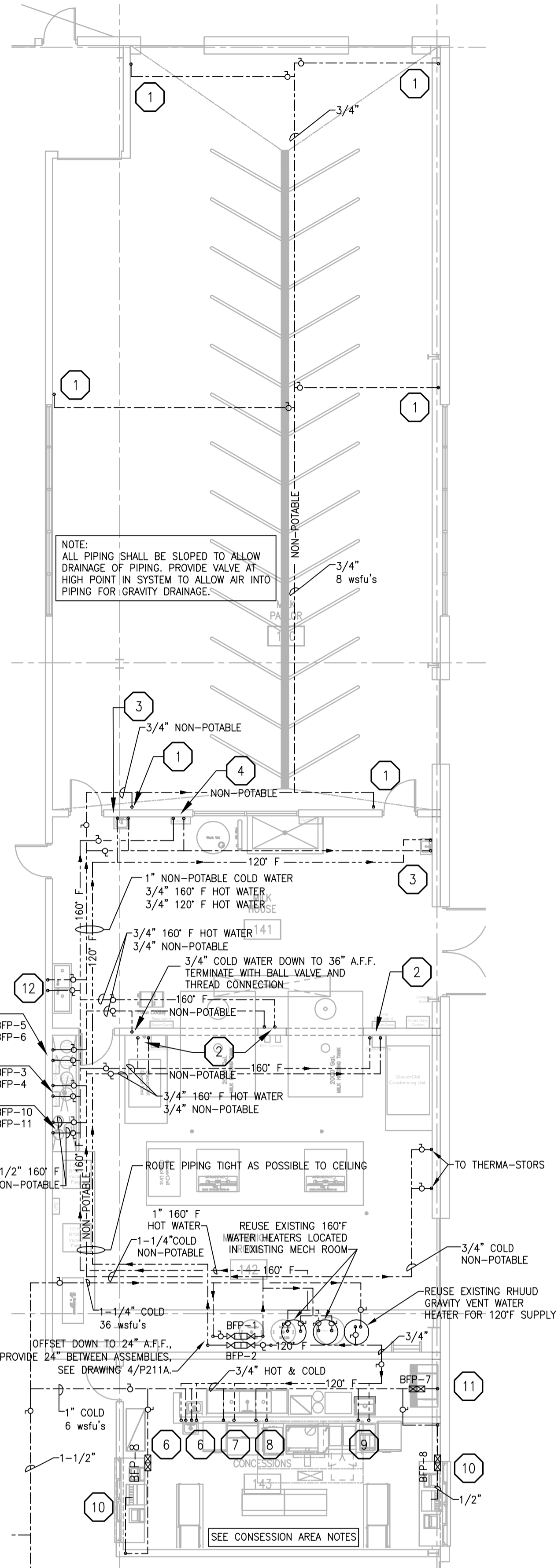
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PROJECT NO. 2013027\_02  
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BID # 313072**

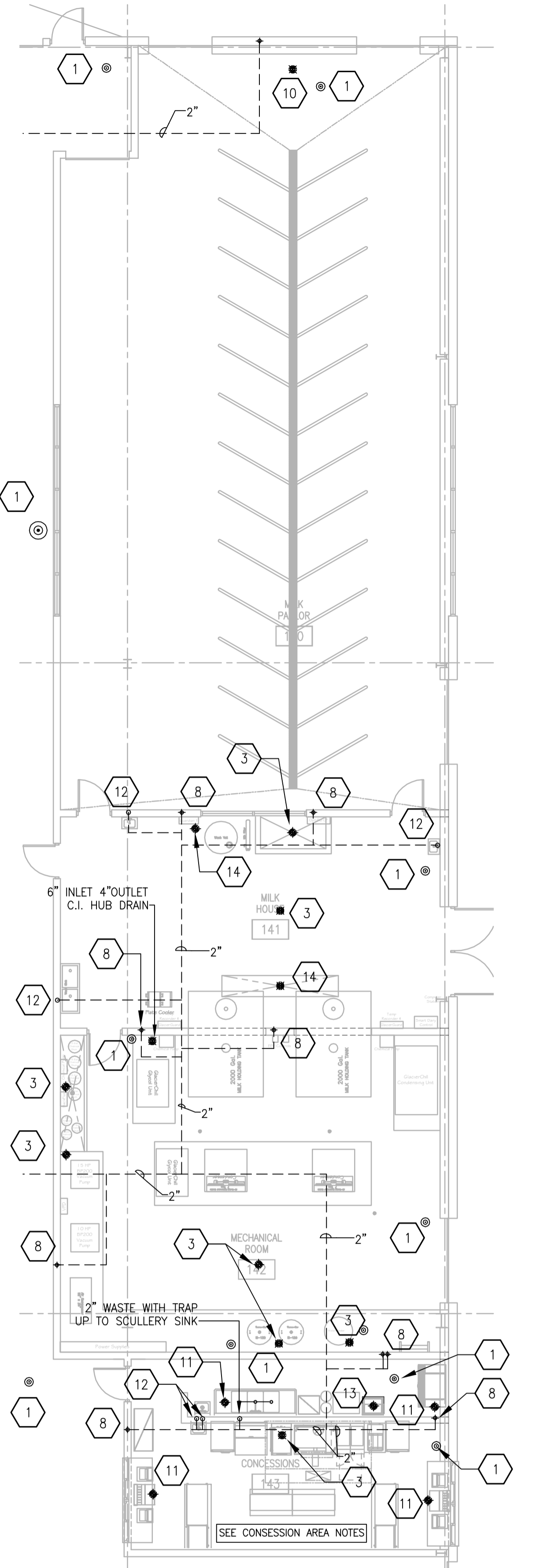
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MADISON, WISCONSIN 53713

SHEET TITLE  
**ENLARGED  
PLUMBING PLANS**

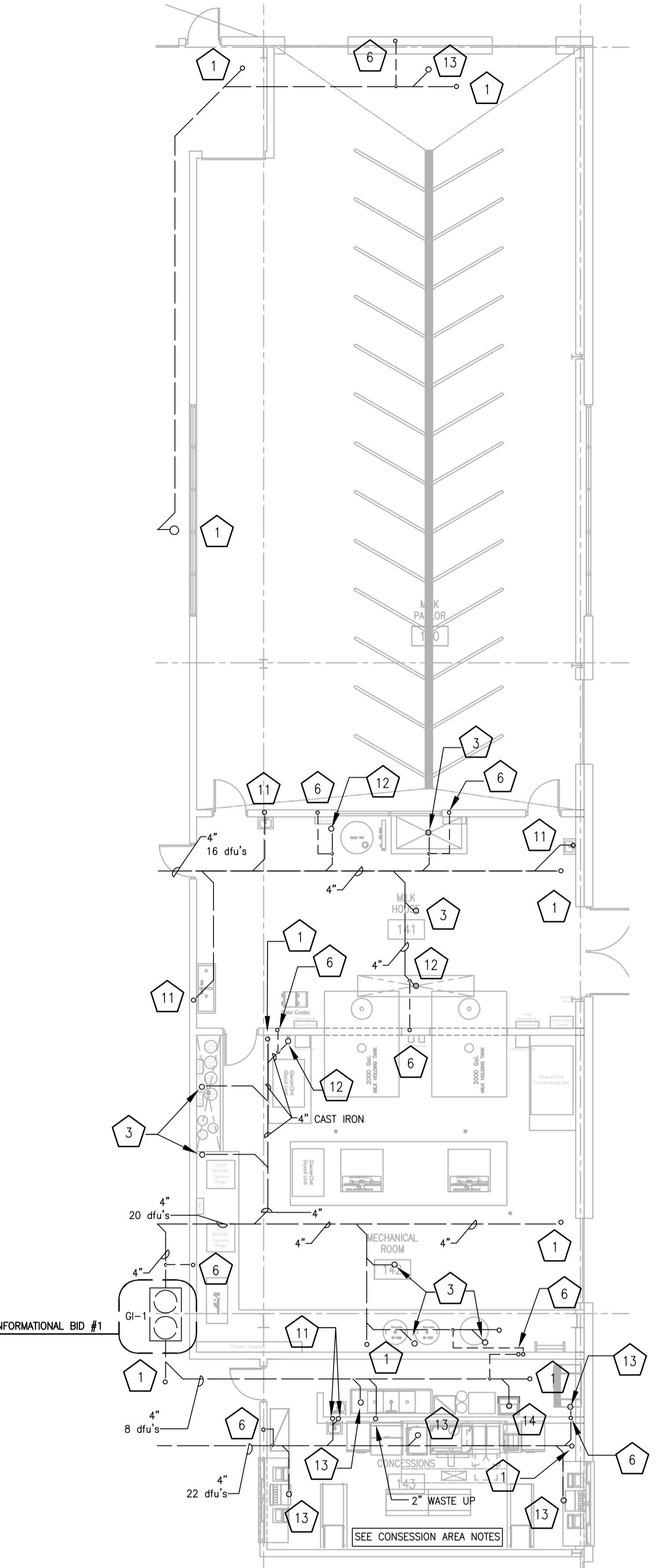
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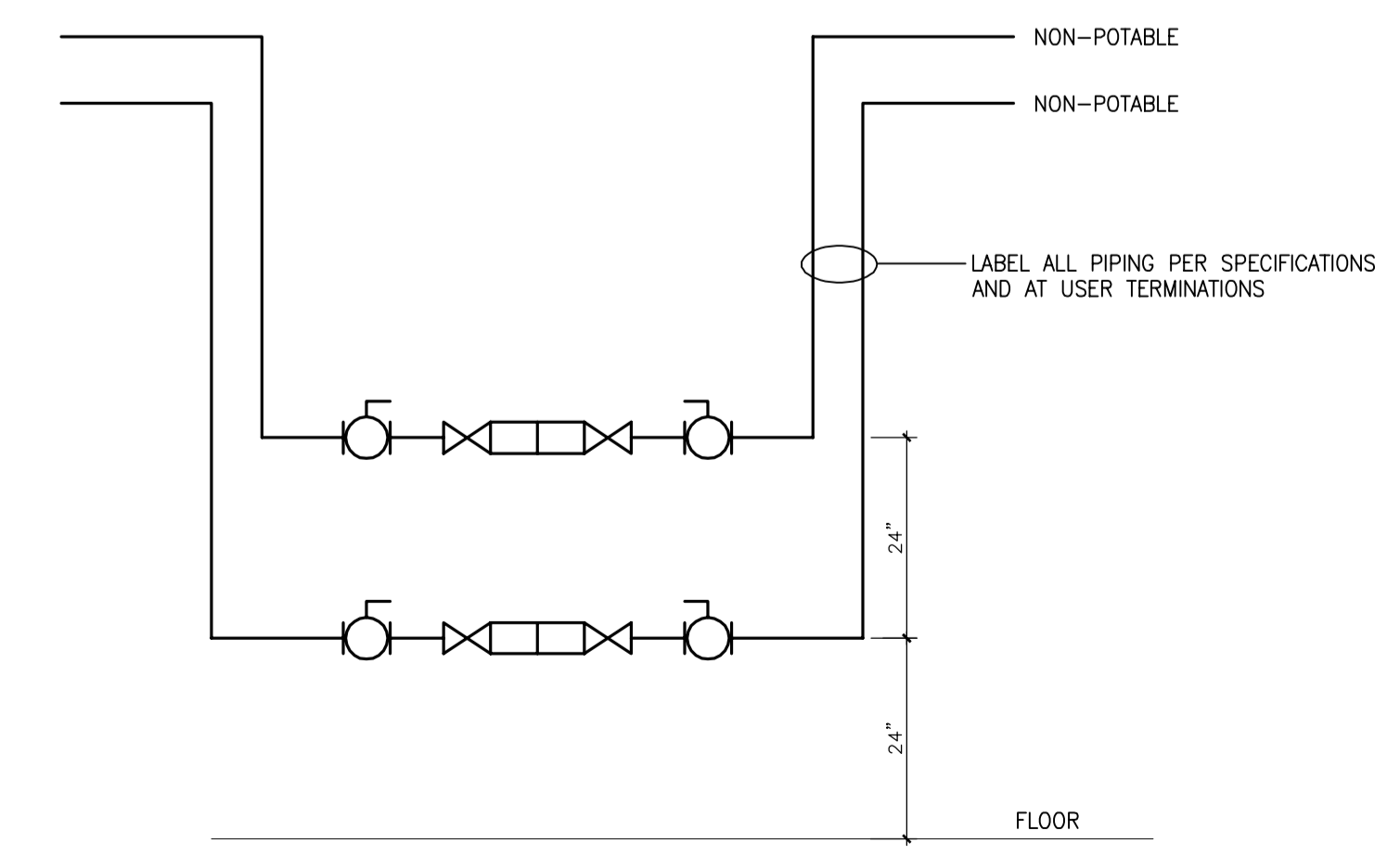
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SCALE: 1/8" = 1'-0"  
0' 2' 4' 8' 12'



**ROOMS 140, 141, 142 & 143  
ENLARGED PLUMBING WASTE PLAN**  
SCALE: 1/8" = 1'-0"  
0' 2' 4' 8' 12'



**ROOMS 140, 141, 142 & 143  
ENLARGED PLUMBING UNDERSLAB PLAN**  
SCALE: 1/8" = 1'-0"  
0' 2' 4' 8' 12'



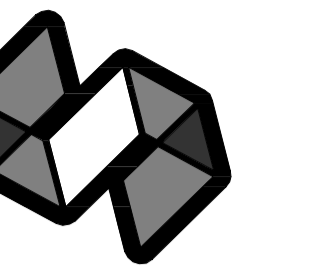
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BACKFLOW PREVENTORS ON SOUTH WALL**  
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TIME: 11:03 AM  
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PLOT: P211A.DWG

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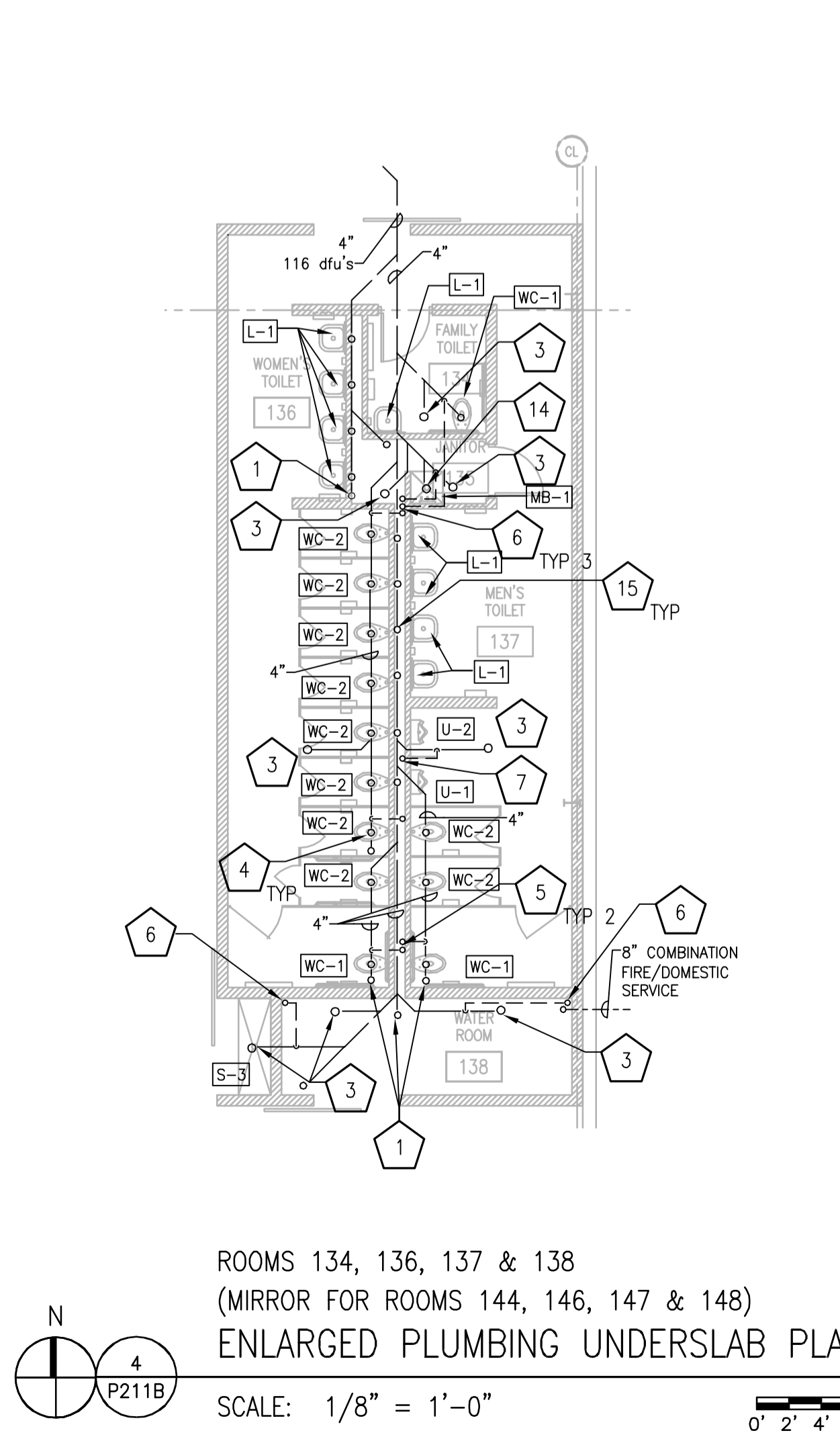
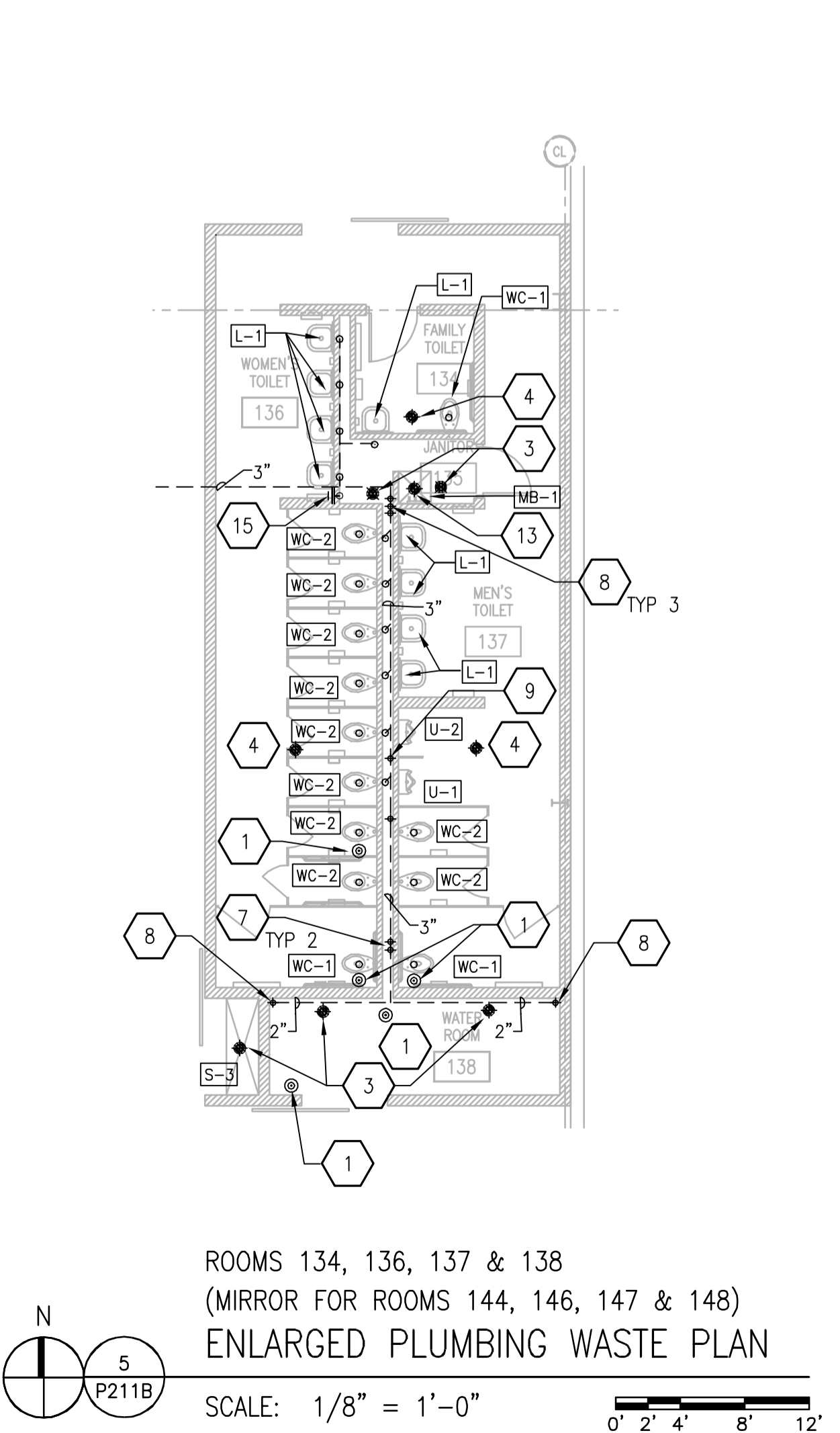
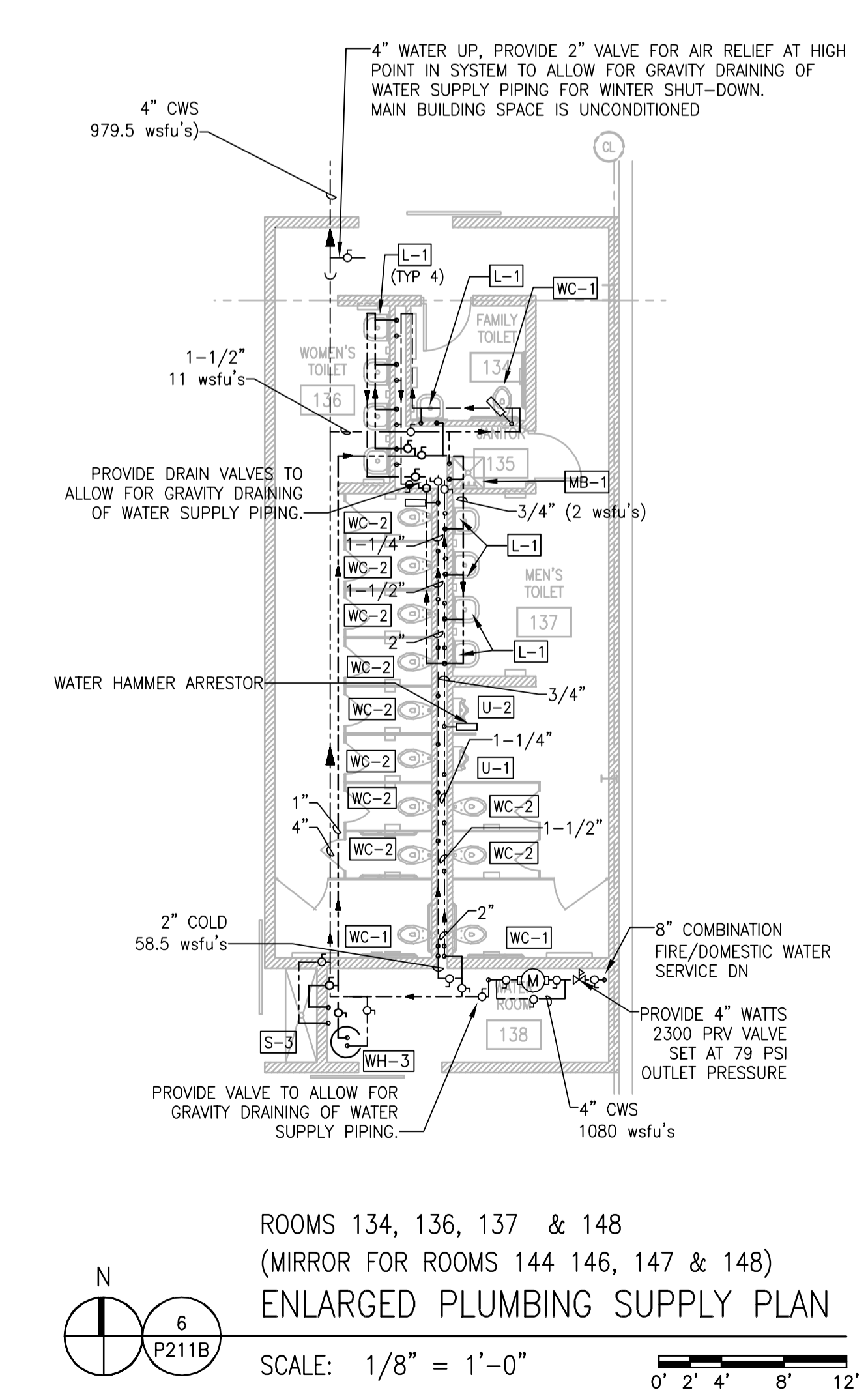
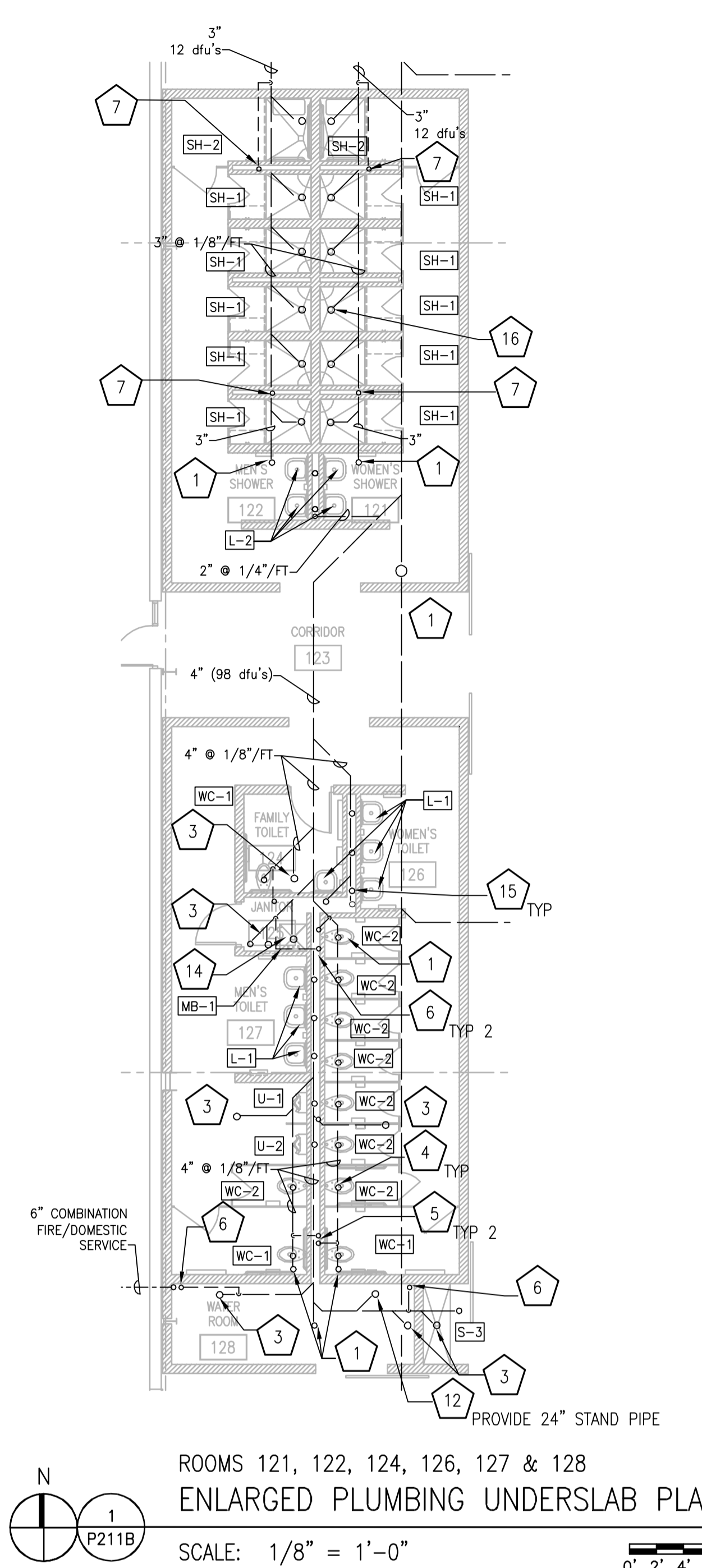
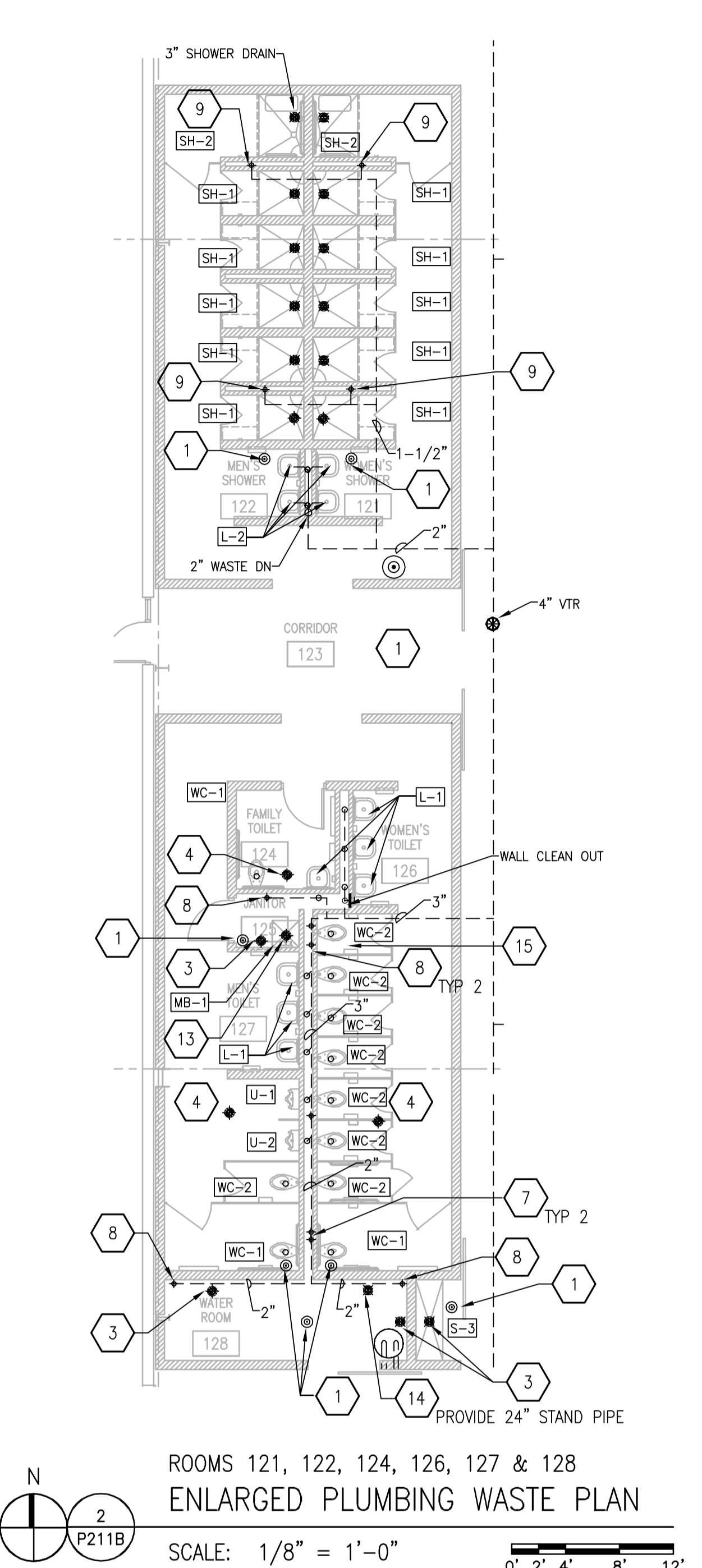
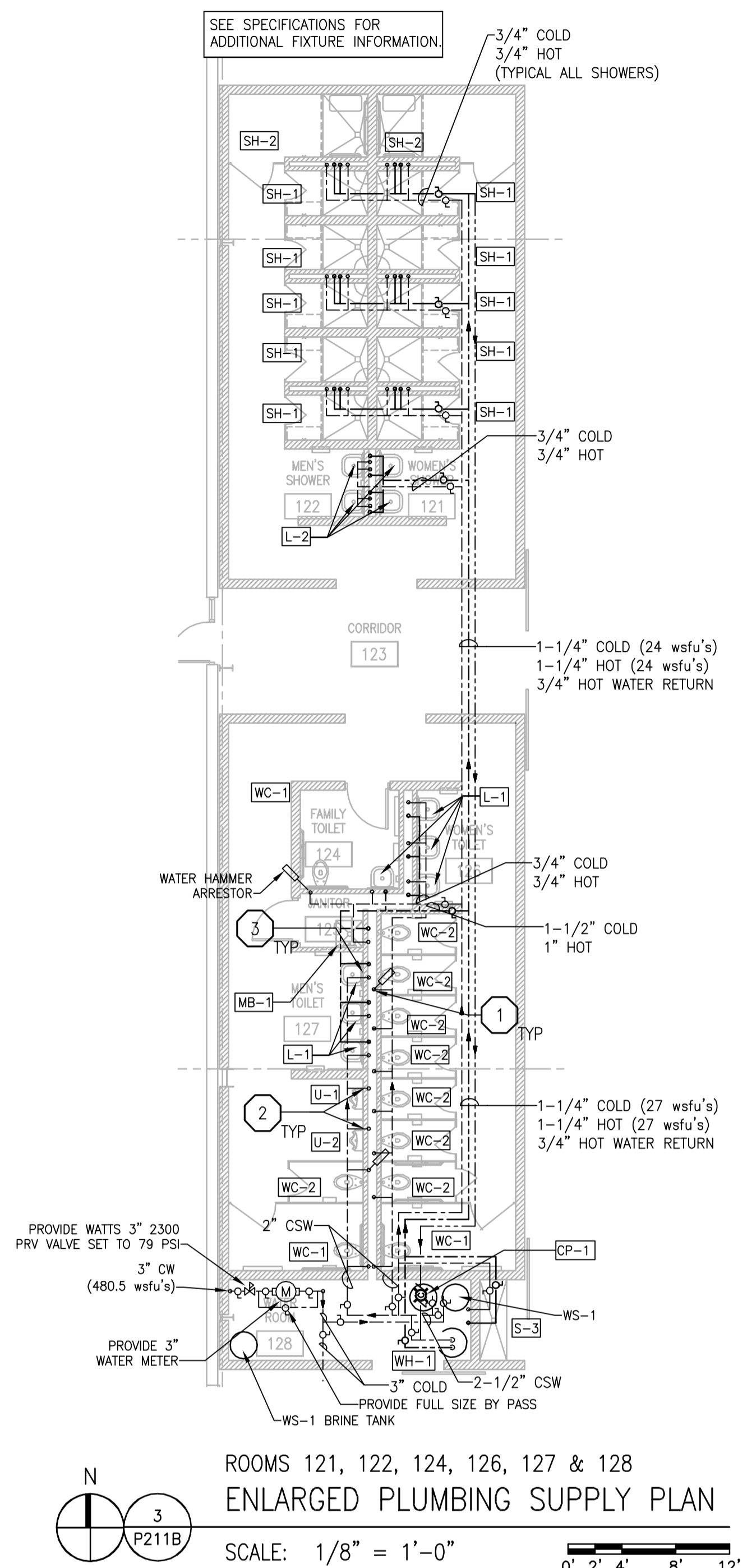
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PLUMBING SUPPLY GENERAL NOTES

1. ALL SINGLE FIXTURE LINES TO BE 1/2", ALL MULTIPLE FIXTURE LINES TO BE 3/4" UNLESS NOTED OTHERWISE.
2. PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS AND ACCESS PANELS.
3. PIPING SHALL NOT DIMINISH IN SIZE OPPOSITE THE DIRECTION OF FLOW.
4. ALL SHUT-OFF VALVES SHALL BE IN ACCESSIBLE LOCATIONS.

PLUMBING WASTE GENERAL NOTES

1. ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2. NO PIPING SHALL BE INSTALLED WITHIN 3 FEET OF ANY ELECTRICAL PANEL. NO PIPING ABOVE OR BELOW THIS SPACE.
3. NO PIPING SHALL BE INSTALLED ABOVE ACCESS PANELS.

PLUMBING UNDERSLAB GENERAL NOTES

1. ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2. ALL WASTE PIPING TO BE 2" UNLESS NOTED OTHERWISE.
3. ALL PIPING 3" AND LARGER TO BE SLOPED AT 1/8" PER FOOT.
4. ALL PIPING LESS THAN 3" TO BE SLOPED AT 1/4" PER FOOT.

PLUMBING SUPPLY SPECIFIC NOTES

- 1 1-1/4" DN TO WC-1
- 3/4" DN TO URINAL
- 1/2" HOT & COLD DOWN TO LAV

PLUMBING WASTE SPECIFIC NOTES

- 1 CLEAN OUT
- 2 TD-1 TRENCH DRAIN
- 3 FD-1 FLOOR DRAIN
- 4 FD-2 FLOOR DRAIN
- 5 FD-3 FLOOR DRAIN
- 6 FD-4 FLOOR DRAIN
- 7 3" VENT DN
- 8 2" VENT DN
- 9 1-1/2" VENT DN
- 10 FS-1 FLOOR SINK
- 11 FS-2 FLOOR SINK
- 12 SINK
- 13 MOP BASIN
- 14 HUB DRAIN, 4" OUTLET
- 15 WALL CLEAN OUT

PLUMBING UNDERSLAB SPECIFIC NOTES

- 1 UP TO CLEAN OUT
- 2 UP TO TRENCH DRAIN
- 3 UP TO FLOOR DRAIN
- 4 UP TO WATER CLOSET
- 5 3" VENT UP
- 6 2" VENT UP
- 7 1-1/2" VENT UP
- 8 16,200 SQFT, 623 GPM, 8" VERTICAL STORM, 8" Ø 8"/FT HORIZONTAL STORM. PLUMBER TO PROVIDE CONNECTION TO GUTTER SYSTEM Ø 20" A.F.S. (APPROX.). ROUTE STORM THROUGH COLUMN & OUT BELOW GRADE TO SITE STORM. SEE DETAIL 4/P402.
- 9 13,500 SQFT, 519 GPM, 6" VERTICAL STORM, 8" Ø 8"/FT HORIZONTAL STORM. SEE NOTE 8.
- 10 18,900 SQFT, 726 GPM, 8" VERTICAL STORM, 10" Ø 17"/FT HORIZONTAL STORM. SEE NOTE 8.
- 11 UP TO SINK.
- 12 UP TO HUB DRAIN.
- 13 UP TO FLOOR SINK.
- 14 UP TO MOP SINK.
- 15 UP TO LAVATORY.
- 16 UP TO SHOWER DRAIN.

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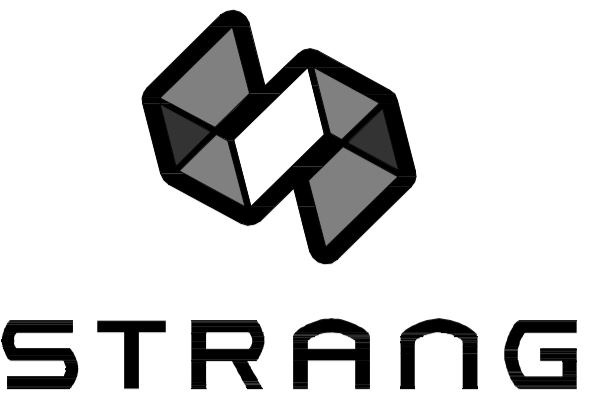
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ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

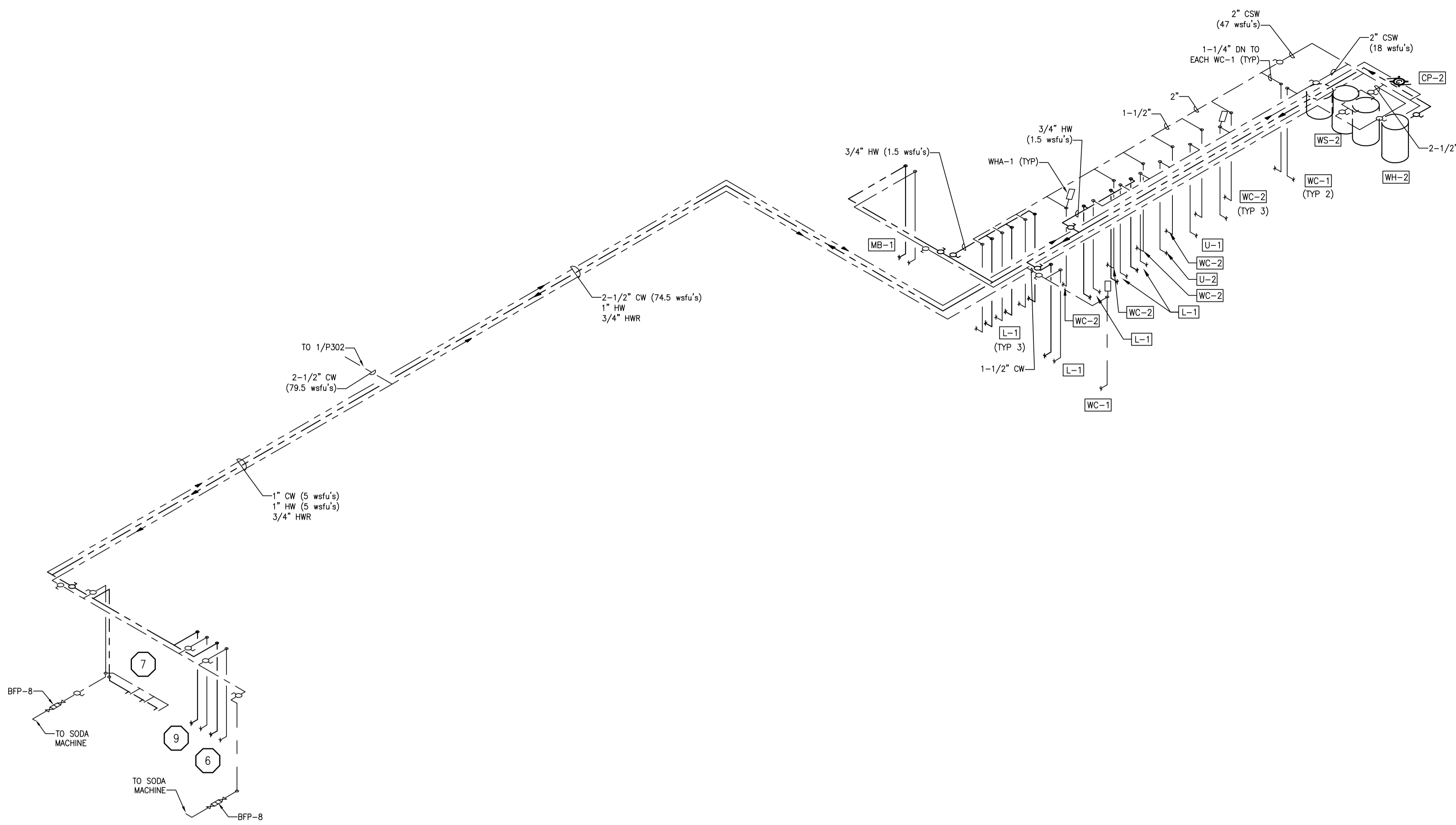
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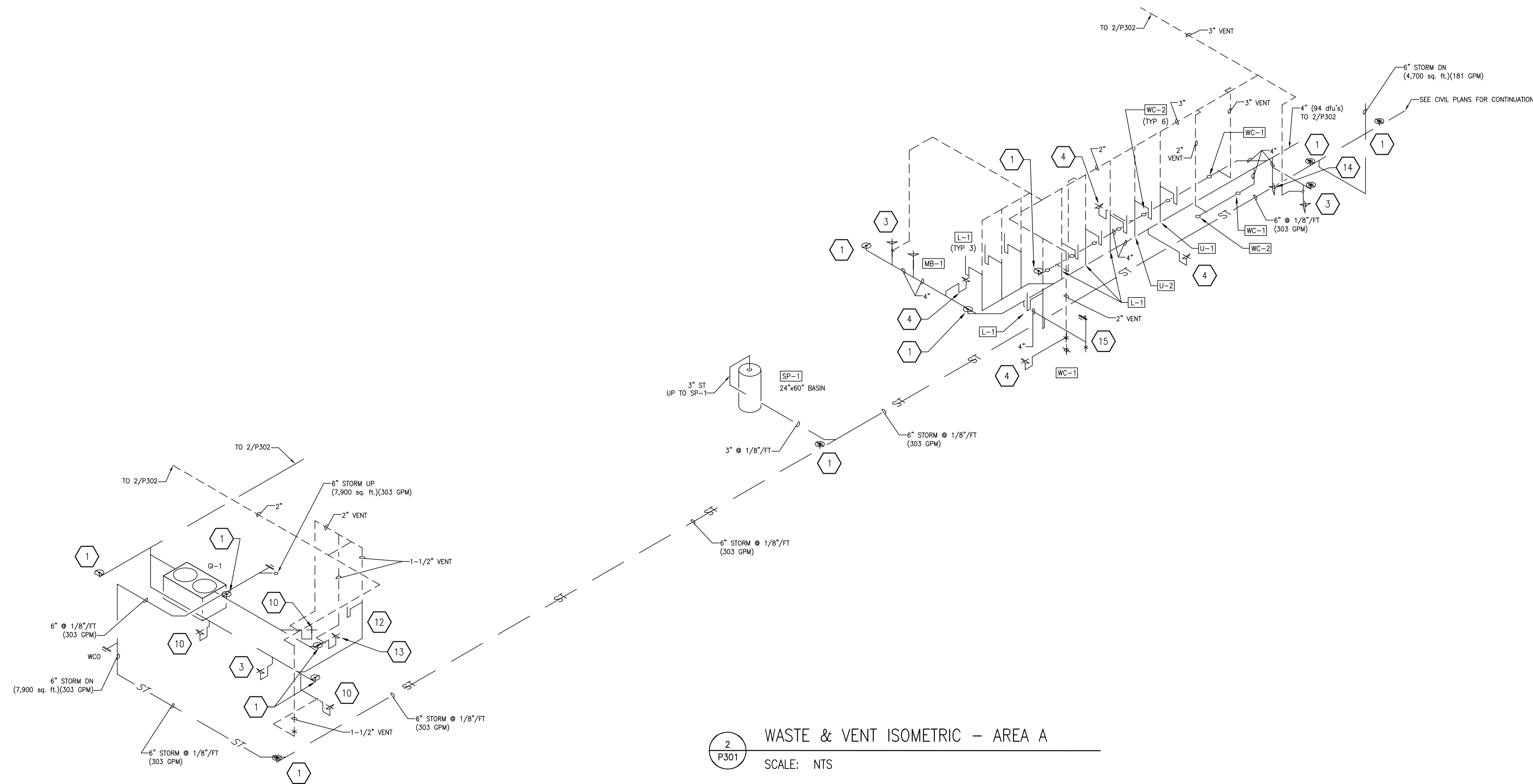
**1**  
P301  
SUPPLY ISOMETRIC – AREA A  
SCALE: NTS

PLUMBING SUPPLY GENERAL NOTES	
1.	ALL SINGLE FIXTURE LINES TO BE 1/2". ALL MULTIPLE FIXTURE LINES TO BE 3/4" UNLESS NOTED OTHERWISE.
2.	PIPING SHALL NOT BE ROUTED OVER ELECTRICAL PANELS AND ACCESS PANELS.
3.	PIPING SHALL NOT DIMINISH IN SIZE OPPOSITE THE DIRECTION OF FLOW.
4.	ALL SHUT-OFF VALVES SHALL BE IN ACCESSIBLE LOCATIONS.

PLUMBING WASTE GENERAL NOTES	
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHIN 3 FEET OF ANY ELECTRICAL PANEL. NO PIPING ABOVE OR BELOW THIS SPACE.
3.	NO PIPING SHALL BE INSTALLED ABOVE ACCESS PANELS.
4.	ALL ABOVE GRADE STORM PIPING IN AREA "A" TO BE CAST IRON.
5.	INFORMATIONAL BID #1: CONCESSION AREA GREASE INTERCEPTORS.

PLUMBING SUPPLY SPECIFIC NOTES	
1	1/2" COLD DOWN TO BALL VALVE & THREADED FITTING. SET OUTLET AT 36" AFF.
2	1/2" 120°F HOT AND COLD DOWN TO BALL VALVES & THREADED FITTING. SET OUTLET AT 36" AFF.
3	1/2" 120°F HOT AND COLD DOWN TO HAND SINK.
4	1/2" 160°F HOT AND COLD DOWN TO BALL VALVES & THREADED FITTING. SET OUTLET AT 42" AFF.
5	1/2" 160°F HOT AND COLD DOWN TO BALL VALVES & THREADED FITTING. SET OUTLET AT 42" AFF WITH 1/2" 909 QTS ASSE 1013 BACKFLOW PREVENTOR ON EACH LINE.
6	1/2" HOT AND COLD DOWN TO HAND SINK.
7	3/4" HOT AND COLD DOWN TO SCULLERY SINK.
8	1/2" COLD DOWN TO OVEN WITH WATTS 90 (ASSE 1012 BACKFLOW PREVENTOR).
9	1/2" HOT AND COLD DOWN TO MOP BASIN.
10	1/2" COLD DOWN WALL AND OVER TO SODA MACHINE WITH INLINE WATTS SD-3 (ASSE 1022) BACKFLOW PREVENTOR.

PLUMBING WASTE SPECIFIC NOTES	
1	CLEAN OUT
2	TD-1 TRENCH DRAIN
3	FD-1 FLOOR DRAIN
4	FD-2 FLOOR DRAIN
5	FD-3 FLOOR DRAIN
6	FD-4 FLOOR DRAIN
7	3" VENT DN
8	2" VENT DN
9	1-1/2" VENT DN
10	FS-1 FLOOR SINK
11	FS-2 FLOOR SINK
12	SINK
13	MOP BASIN
14	HUB DRAIN, 4" OUTLET
15	WALL CLEAN OUT



**2**  
P301  
WASTE & VENT ISOMETRIC – AREA A  
SCALE: NTS

DRAWING SET	CD
COPYRIGHT	2013
STRANG, INC.	
FILE NAME	2013027_02-P301.DWG
REVISIONS	
DRAWN	DF
CHECKED	RG
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

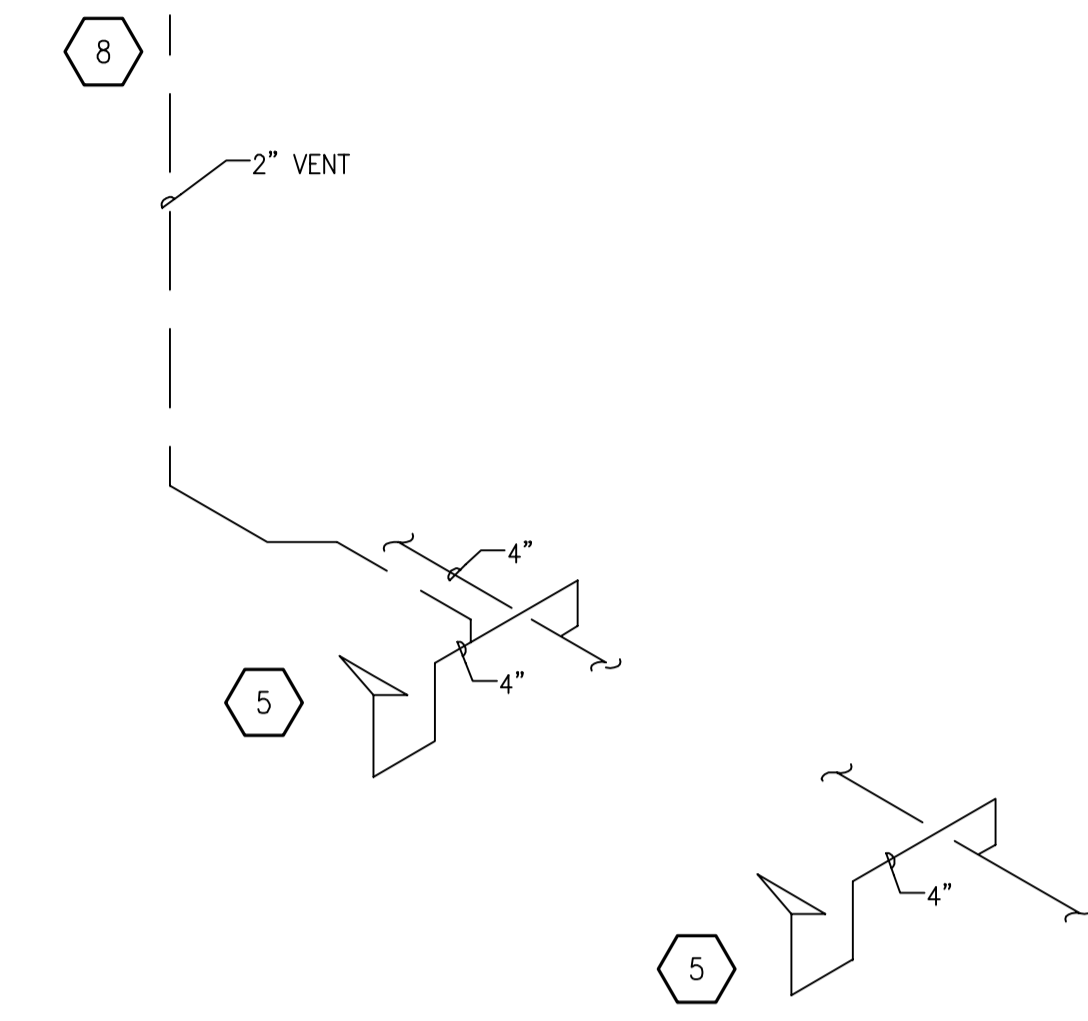
ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

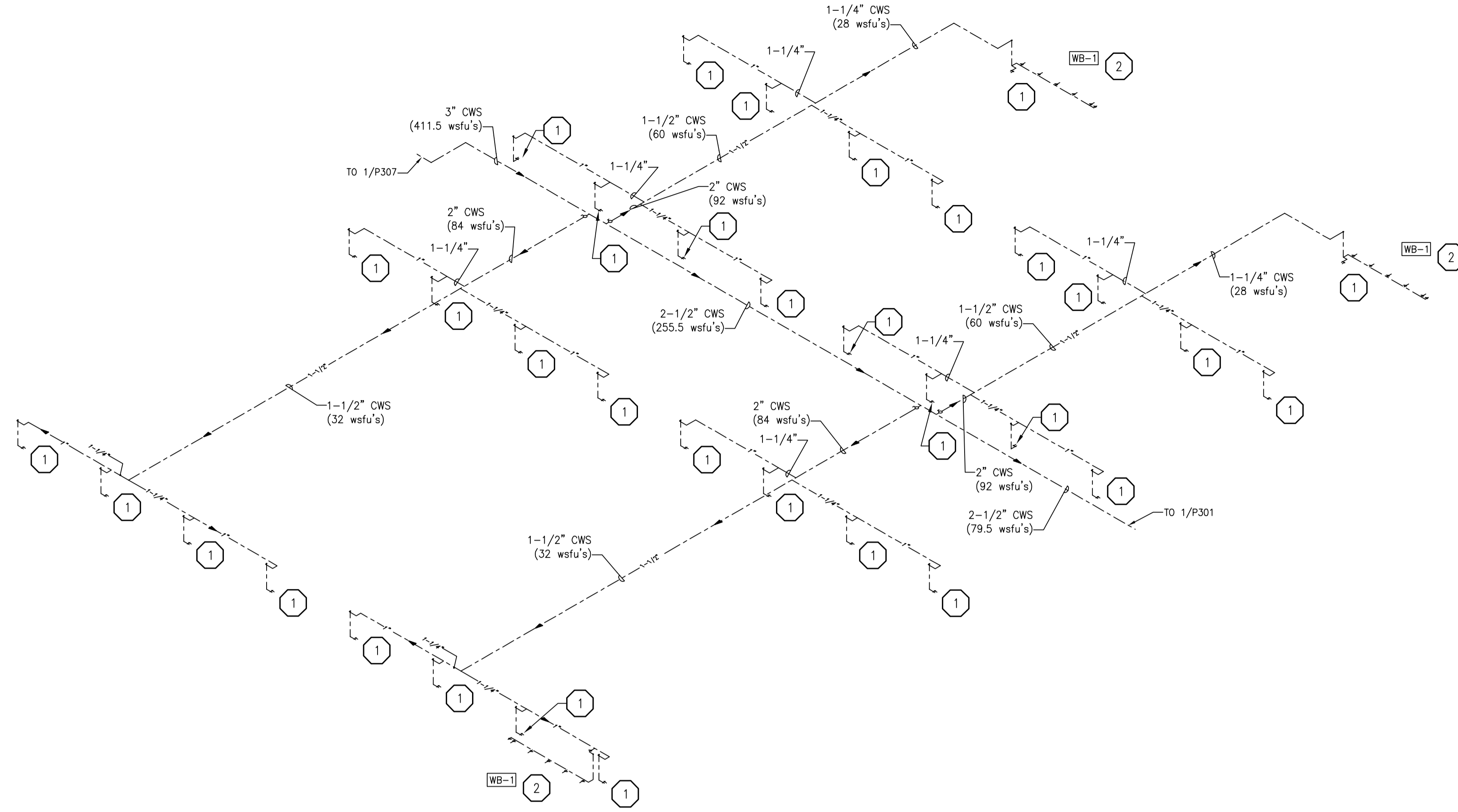
SHEET TITLE  
PLUMBING SUPPLY,  
WASTE & VENT  
ISOMETRICS

SHEET NO.  
**P301**

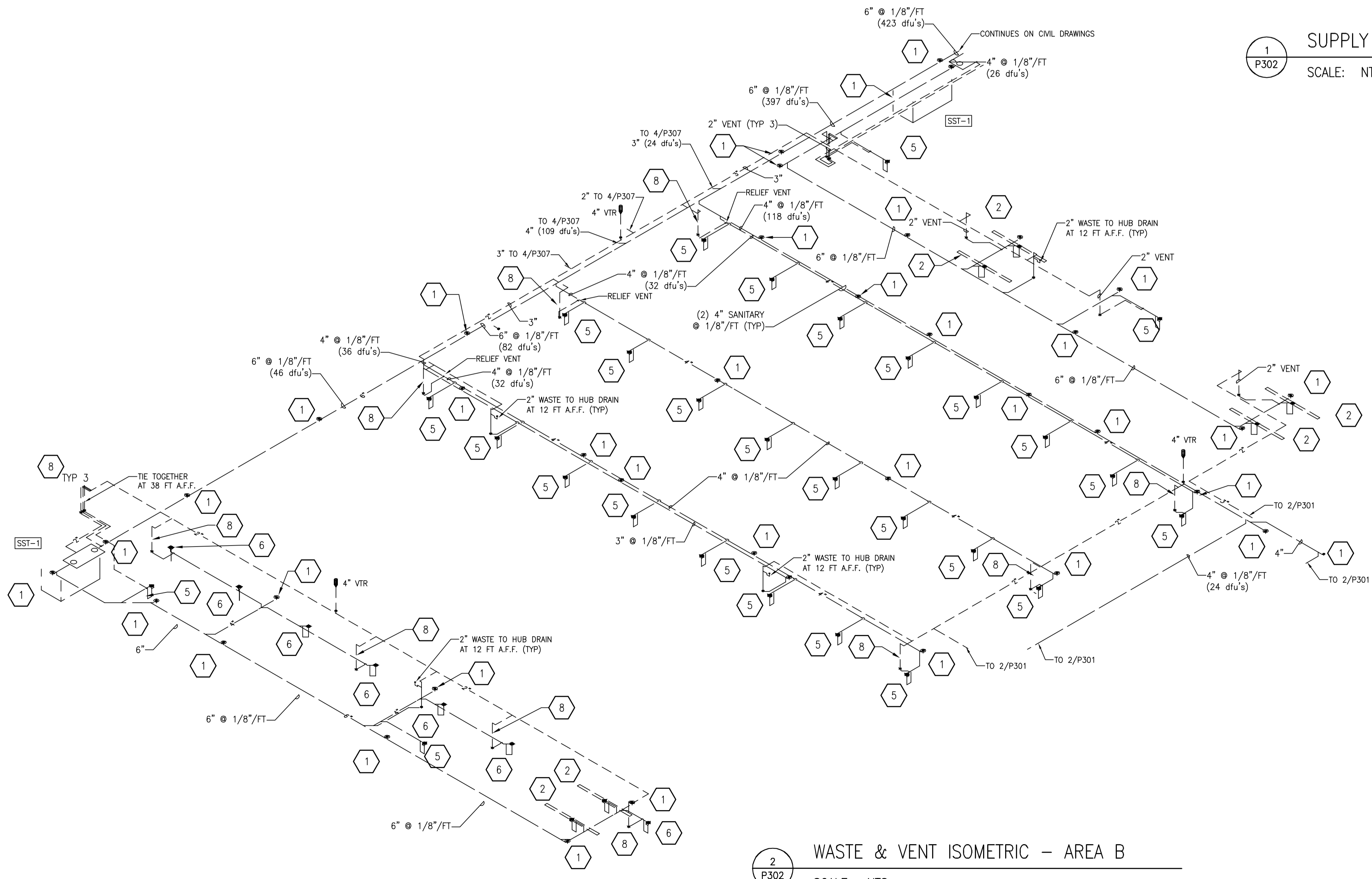




3  
P302 TYPICAL DRAIN @ COLUMN DETAILS  
SCALE: NTS



1  
P302 SUPPLY ISOMETRIC - AREA B  
SCALE: NTS



2  
P302 WASTE & VENT ISOMETRIC - AREA B  
SCALE: NTS

PLUMBING SUPPLY SPECIFIC NOTES	
1	1" COLD WATER DOWN TO HOSE BIBBS. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAIL 4/P401.
2	1-1/4" COLD WATER DOWN TO WASH BAY STATION WB-4. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAILS 5/P401 & 6/P402.

PLUMBING WASTE SPECIFIC NOTES	
1	CLEAN OUT
2	TD-1 TRENCH DRAIN
3	FD-1 FLOOR DRAIN
4	FD-2 FLOOR DRAIN
5	FD-3 FLOOR DRAIN
6	FD-4 FLOOR DRAIN
7	3" VENT DN
8	2" VENT DN
9	1-1/2" VENT DN
10	FS-1 FLOOR SINK
11	FS-2 FLOOR SINK
12	SINK
13	MOP BASIN
14	HUB DRAIN, 4" OUTLET
15	WALL CLEAN OUT

DRAWING SET	CD
COPYRIGHT	2013
FILE NAME	2013027_02-P302.DWG
REVISIONS	

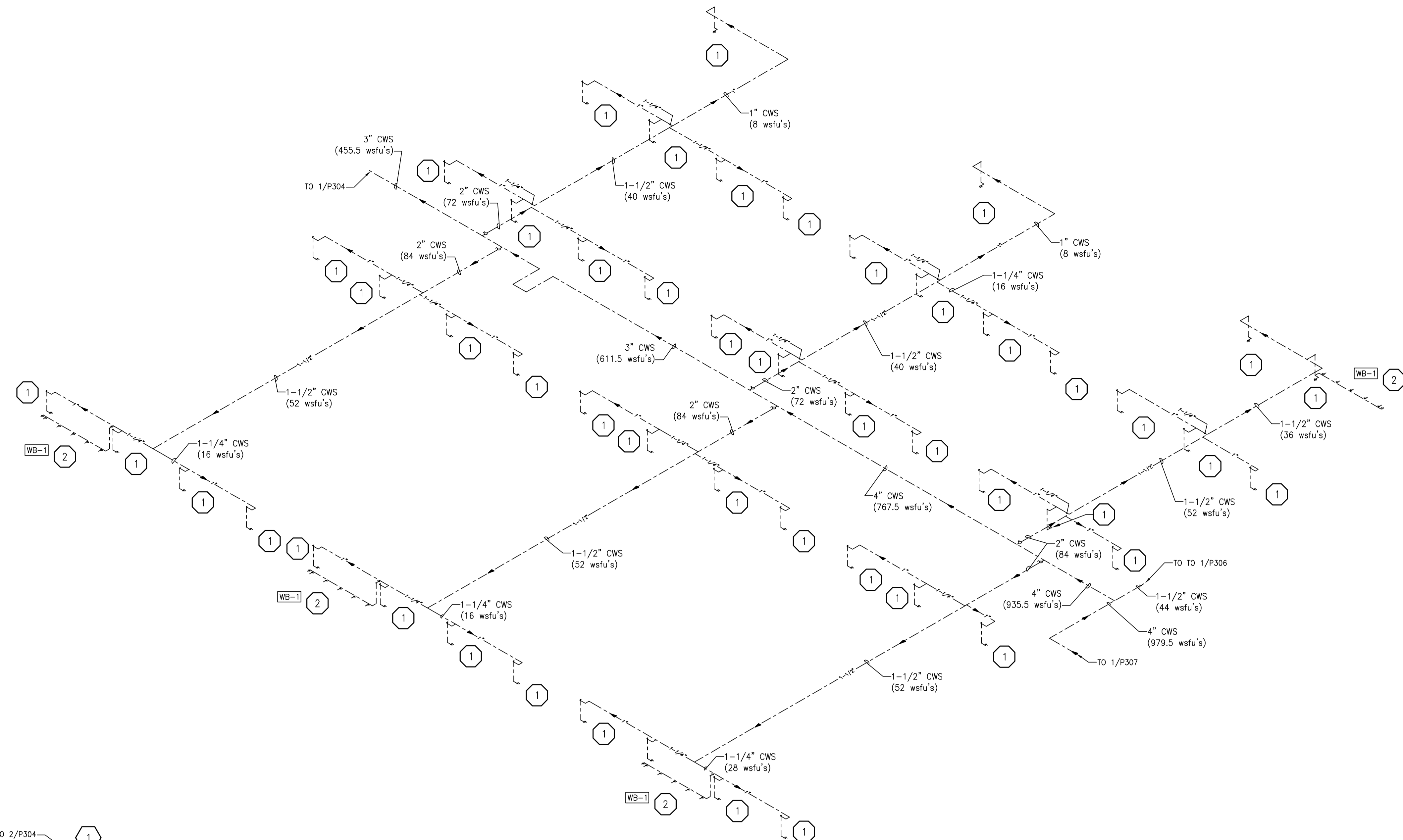
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PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

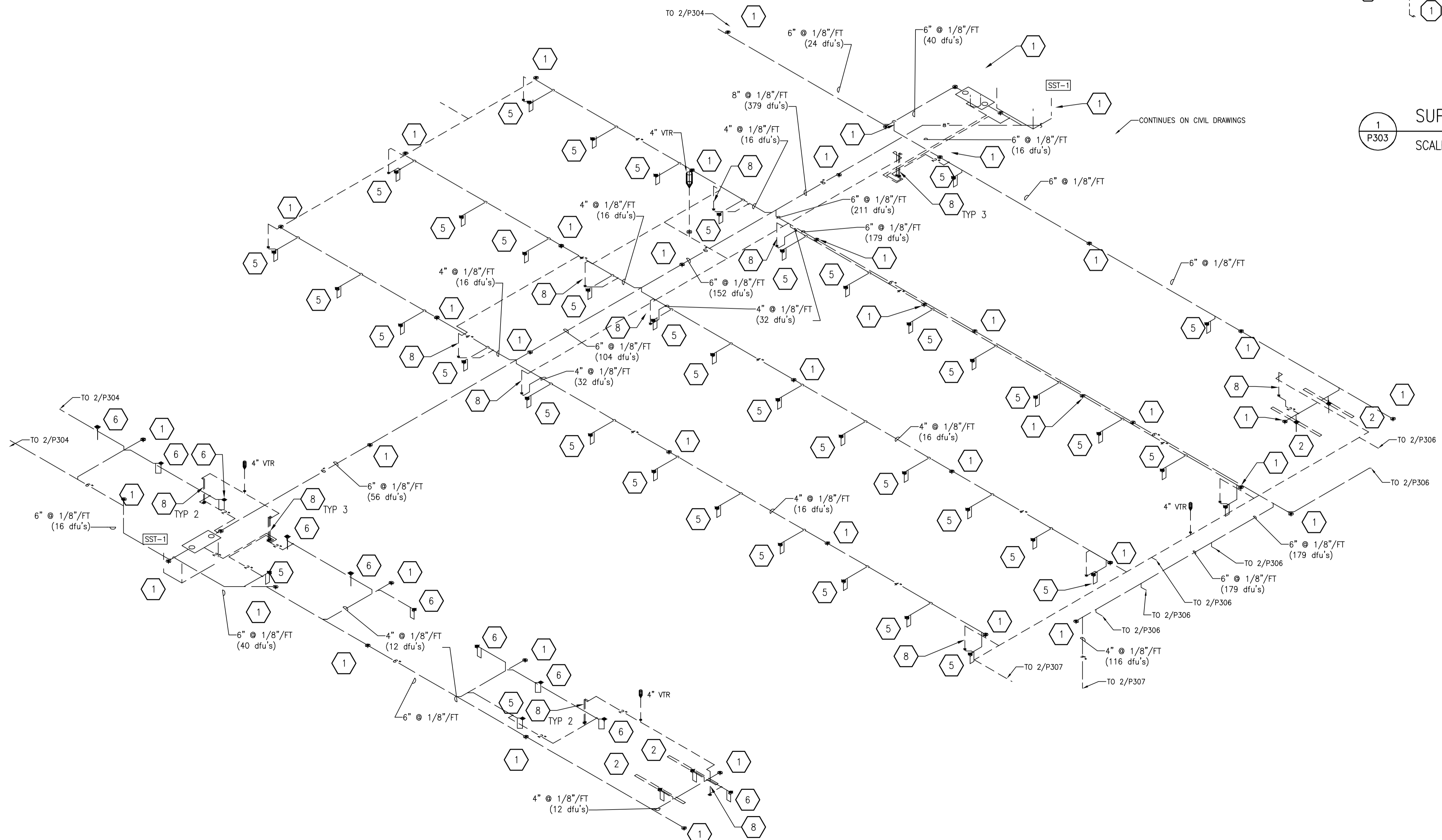
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**PLUMBING SUPPLY,  
WASTE & VENT  
ISOMETRICS**

SHEET NO.  
**P302**



**1**  
**P303** SUPPLY ISOMETRIC - AREA C  
SCALE: NTS



**2**  
**P303** WASTE & VENT ISOMETRIC - AREA C  
SCALE: NTS

PLUMBING SUPPLY SPECIFIC NOTES	
1	1" COLD WATER DOWN TO HOSE BIBBS. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAIL 4/P401.
2	1-1/4" COLD WATER DOWN TO WASH BAY STATION WB-4. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAILS 5/P401 & 6/P402.

PLUMBING WASTE SPECIFIC NOTES	
1	CLEAN OUT
2	TD-1 TRENCH DRAIN
3	FD-1 FLOOR DRAIN
4	FD-2 FLOOR DRAIN
5	FD-3 FLOOR DRAIN
6	FD-4 FLOOR DRAIN
7	3" VENT DN
8	2" VENT DN
9	1-1/2" VENT DN
10	FS-1 FLOOR SINK
11	FS-2 FLOOR SINK
12	SINK
13	MOP BASIN
14	HUB DRAIN, 4" OUTLET
15	WALL CLEAN OUT

DRAWING SET	CD
COPYRIGHT	2013
FILE NAME	2013027_02-P303.DWG
REVISIONS	

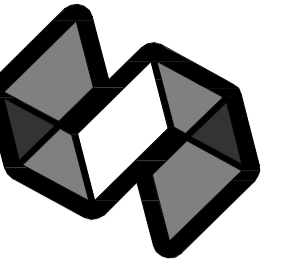
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**PLUMBING SUPPLY,  
WASTE & VENT  
ISOMETRICS**

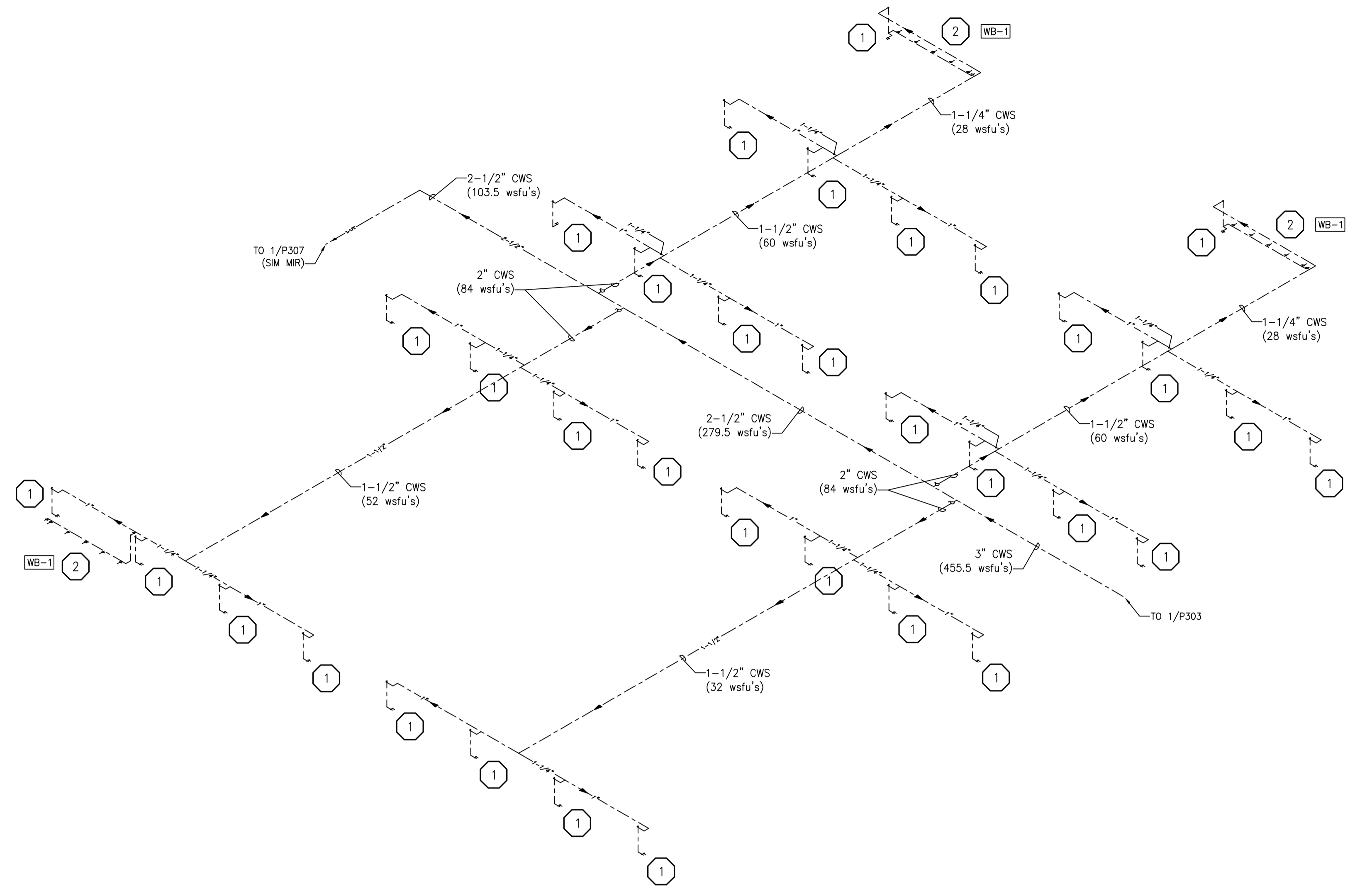
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**P303**



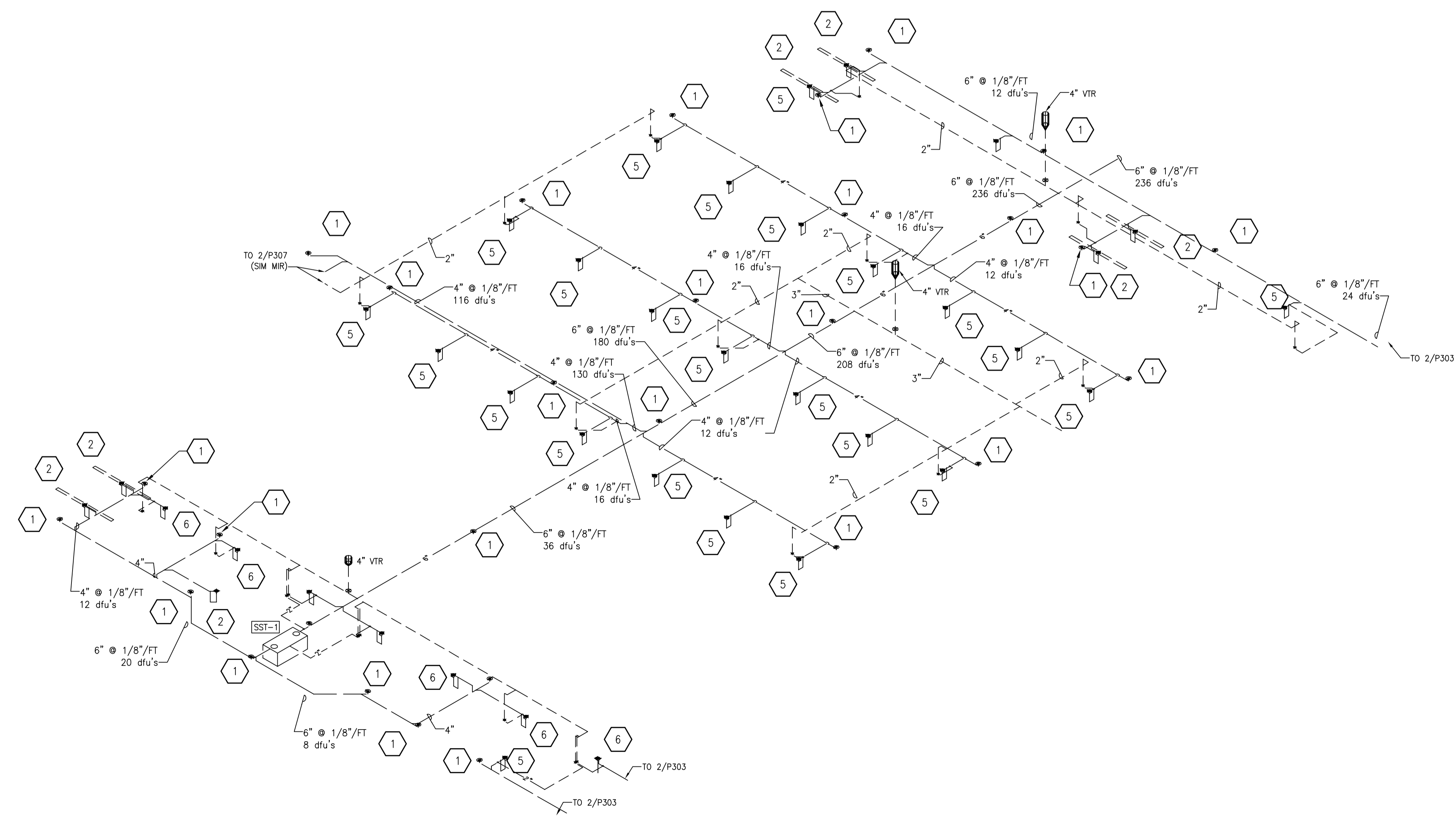
STRANG

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204



1 SUPPLY ISOMETRIC - AREA D  
SCALE: NTS



2 WASTE & VENT ISOMETRIC - AREA D  
SCALE: NTS

PLUMBING SUPPLY SPECIFIC NOTES	
1	1" COLD WATER DOWN TO HOSE BIBBS. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAIL 4/P401.
2	1-1/4" COLD WATER DOWN TO WASH BAY STATION WB-4. PROVIDE BFP-9 ASSE 1011 BACKFLOW PREVENTOR ON EACH THREADED CONNECTION. SEE DETAILS 5/P401 & 6/P402.

PLUMBING WASTE SPECIFIC NOTES	
1	CLEAN OUT
2	TD-1 TRENCH DRAIN
3	FD-1 FLOOR DRAIN
4	FD-2 FLOOR DRAIN
5	FD-3 FLOOR DRAIN
6	FD-4 FLOOR DRAIN
7	3" VENT DN
8	2" VENT DN
9	1-1/2" VENT DN
10	FS-1 FLOOR SINK
11	FS-2 FLOOR SINK
12	SINK
13	MOP BASIN
14	HUB DRAIN, 4" OUTLET
15	WALL CLEAN OUT

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CHECKED	RG
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

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BID # 313072

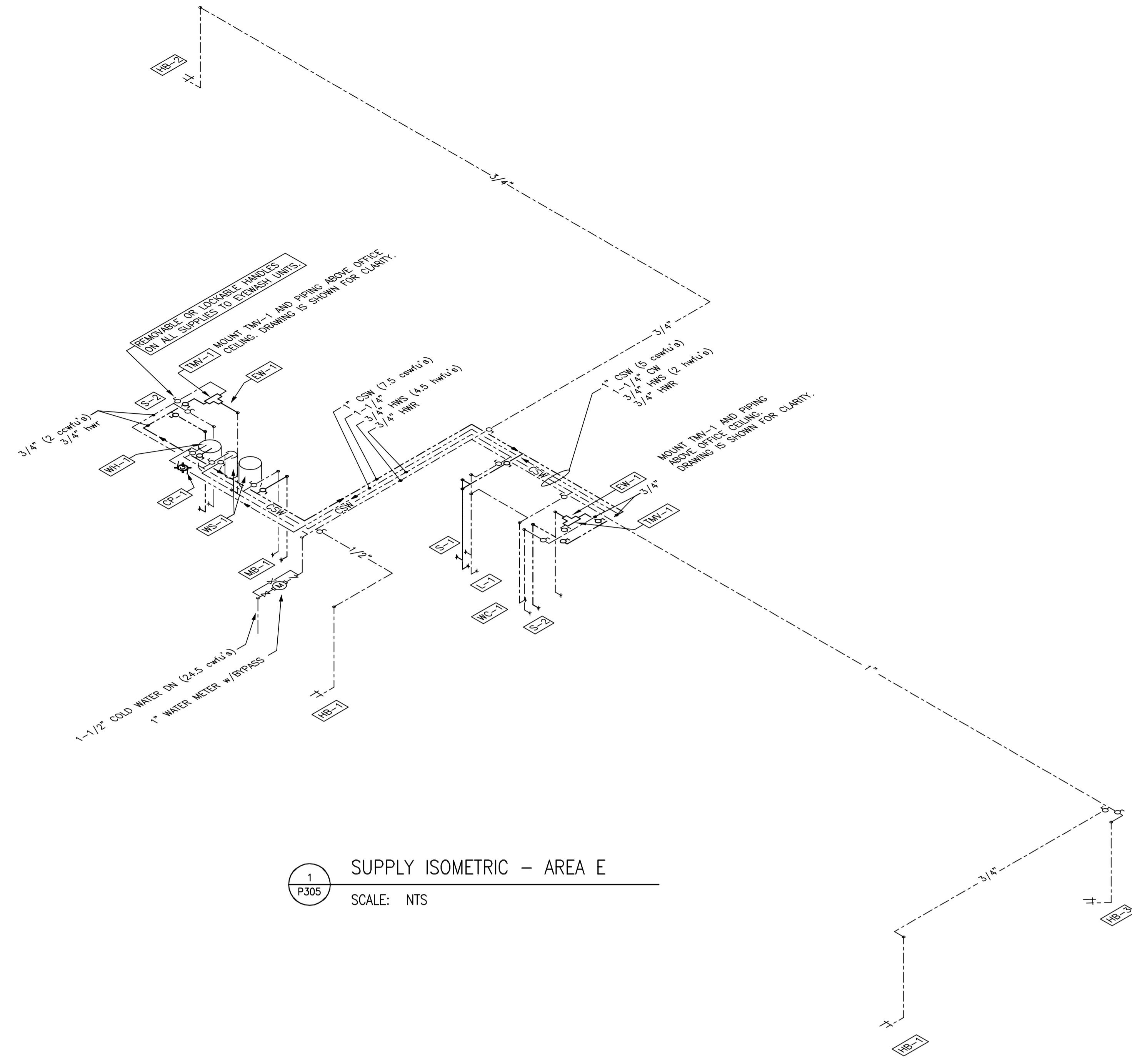
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET NO.  
PLUMBING SUPPLY,  
WASTE & VENT  
ISOMETRICS

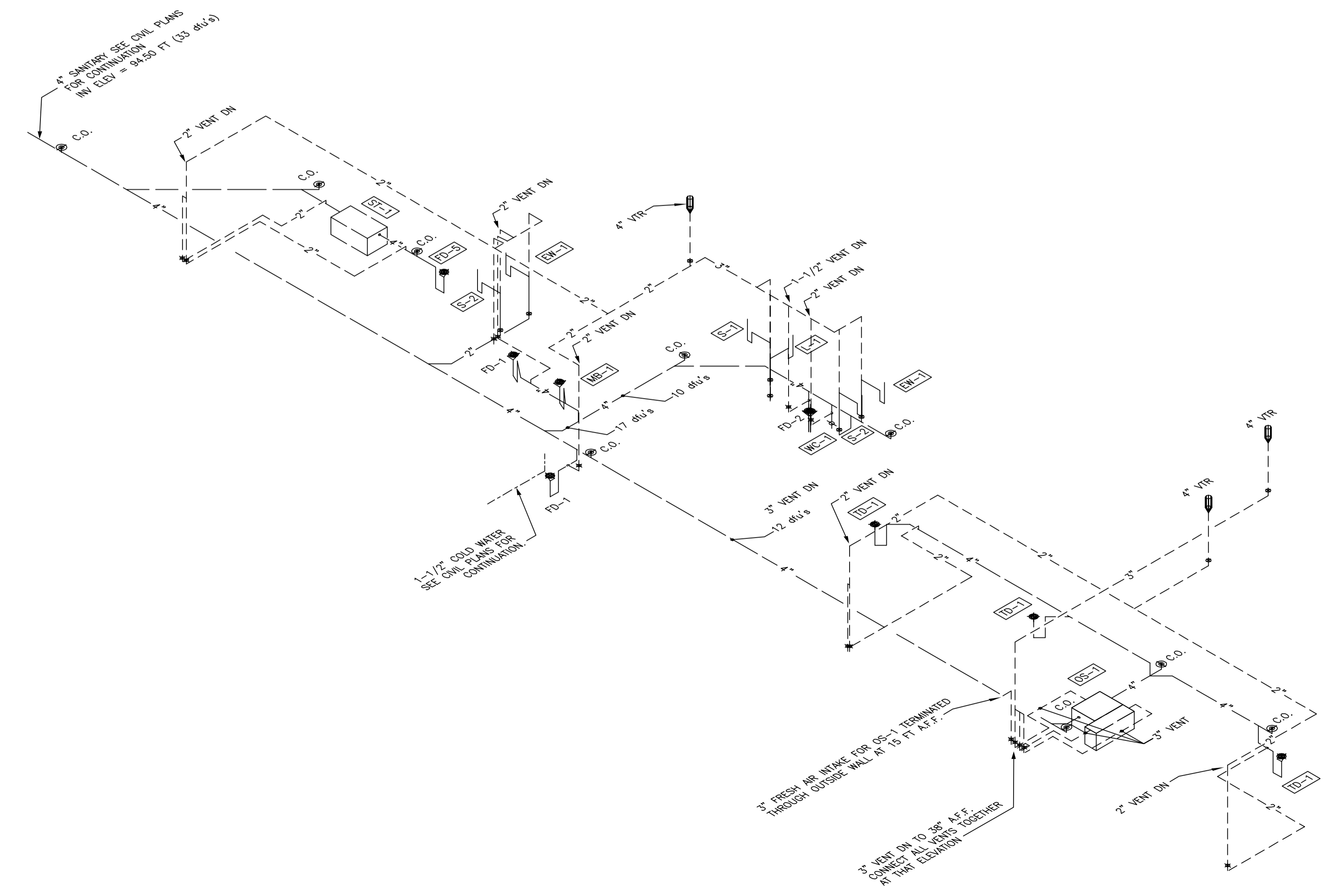
SHEET NO.  
P304

DATE PLOTTED: 10/29/2013 11:04 AM  
PLOTTER: HP DesignJet 3015 PCL  
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2013027\_02-P304.DWG - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION/2013027\_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALL/DRAWINGS/2013027\_02-P304.DWG



1  
P305 SUPPLY ISOMETRIC - AREA E  
SCALE: NTS



2  
P305 WASTE & VENT ISOMETRIC - AREA E  
SCALE: NTS

- GENERAL NOTES:
- 1.) ALL VENTING TO BE 1-1/2" - UNLESS NOTED OTHERWISE
  - 2.) ALL WASTE PIPING TO BE 1" - UNLESS NOTED OTHERWISE
  - 3.) ALL PIPING 3" AND LARGER TO BE SLOPED AT 1/8" PER FOOT.
  - 4.) ALL PIPING LESS THAN 3" SHALL BE SLOPED AT 1/4" PER FOOT.

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FILE NAME	2013027_02-P305.DWG
REVISIONS	
DRAWN	DF
CHECKED	DV
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

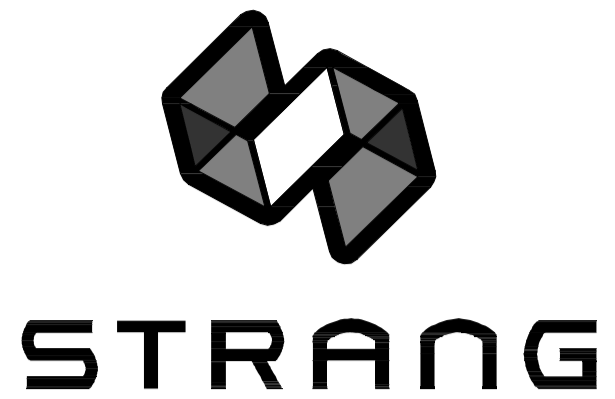
**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
**PLUMBING SUPPLY,  
WASTE & VENT  
ISOMETRICS**

SHEET NO.  
**P305**

CARLOS BLIZ 2008-6-30 2:27 PM PL\_2013027\_02 - ALLIANT ENERGY CENTER LIFESTOCK & EXHIBITION SPACE EXPANSION 2013027\_02 - ALLIANT ENERGY CENTER - LIFESTOCK AND EXHIBITION HALL DRAWINGS 2013027\_02-P305.DWG

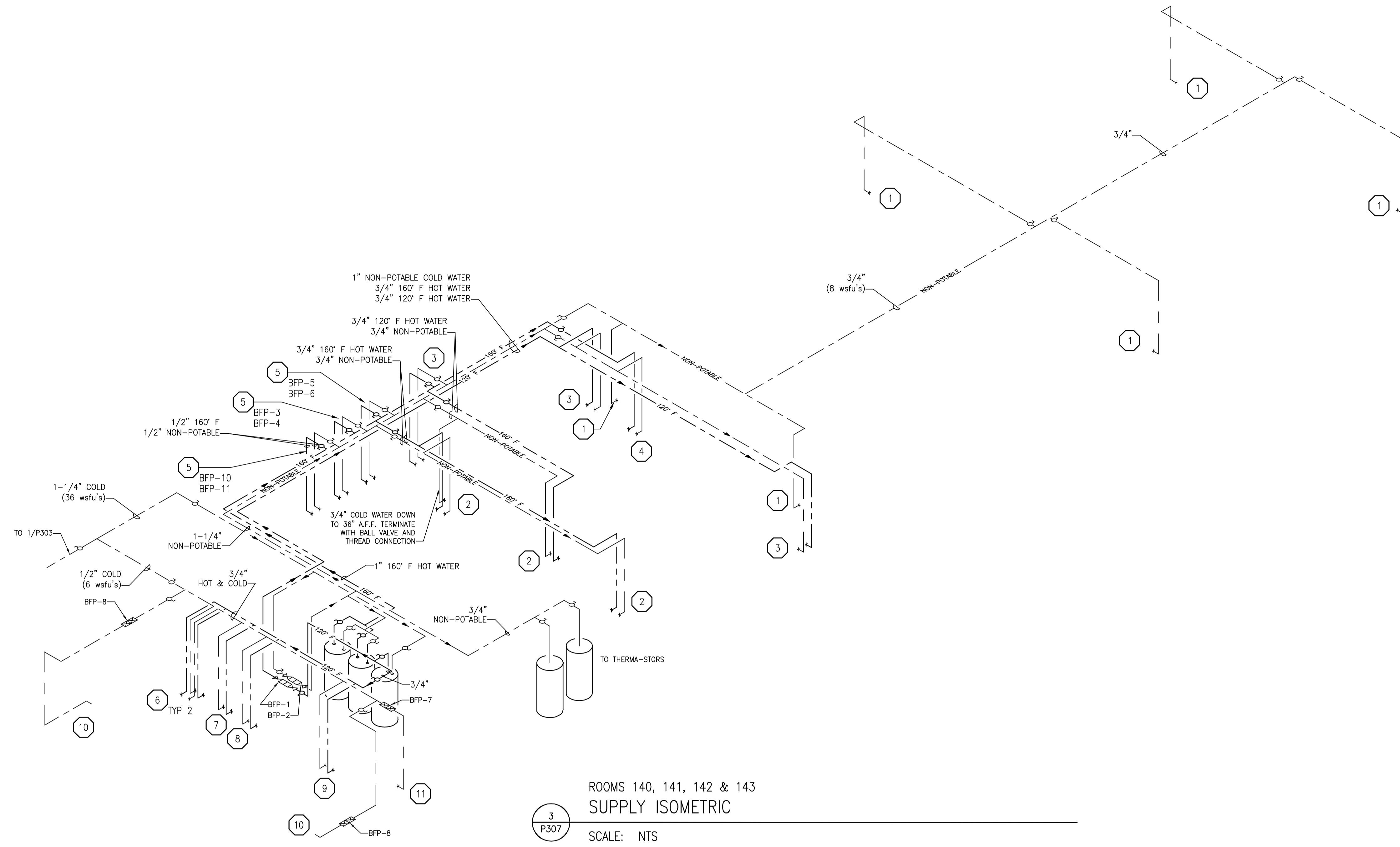


ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

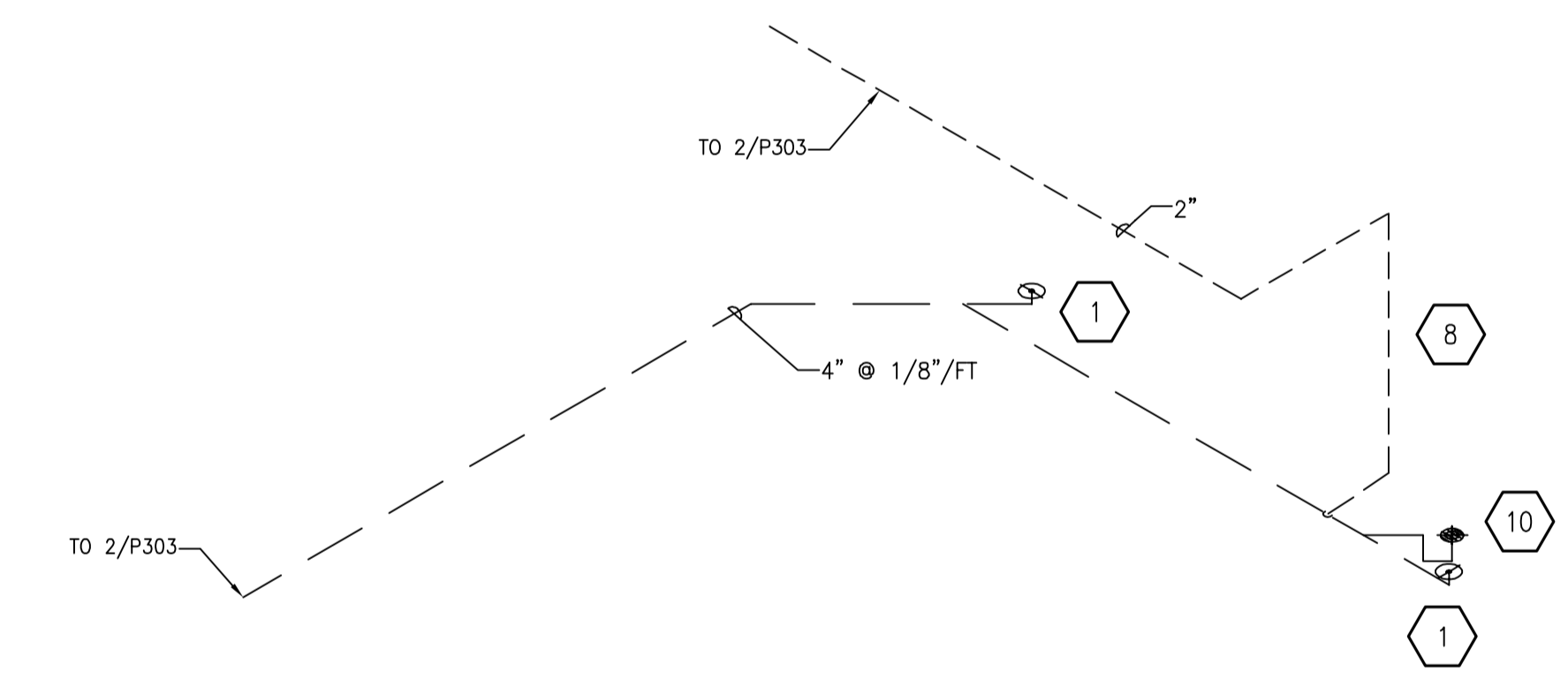
STRANG INC.  
6415 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

PLUMBING SUPPLY SPECIFIC NOTES	
1	1/2" COLD DOWN TO BALL VALVE & THREADED FITTING. SET OUTLET AT 36" AFF.
2	1/2" 120°F HOT AND COLD DOWN TO BALL VALVES & THREADED FITTING. SET OUTLET AT 36" AFF.
3	1/2" 120°F HOT AND COLD DOWN TO HAND SINK.
4	1/2" 160°F HOT AND COLD DOWN TO BALL VALVES & THREADED FITTING. SET OUTLET AT 42" AFF.
5	1/2" 160°F HOT AND COLD DOWN TO BALL VALVES & THREADED FITTING. SET OUTLET AT 42" AFF WITH 1/2" 909 QTS ASSE 1013 BACKFLOW PREVENTOR ON EACH LINE.
6	1/2" HOT AND COLD DOWN TO HAND SINK.
7	3/4" HOT AND COLD DOWN TO SCULLERY SINK.
8	1/2" COLD DOWN TO OVEN WITH WATTS 9D (ASSE 1012 BACKFLOW PREVENTOR).
9	1/2" HOT AND COLD DOWN TO MOP BASIN.
10	1/2" COLD DOWN WALL AND OVER TO SODA MACHINE WITH INLINE WATTS 5D-3 (ASSE 1022) BACKFLOW PREVENTOR.
11	1/2" COLD DOWN TO ICE MAKER WITH INLINE WATTS 9D (ASSE 1012) BACKFLOW PREVENTOR.

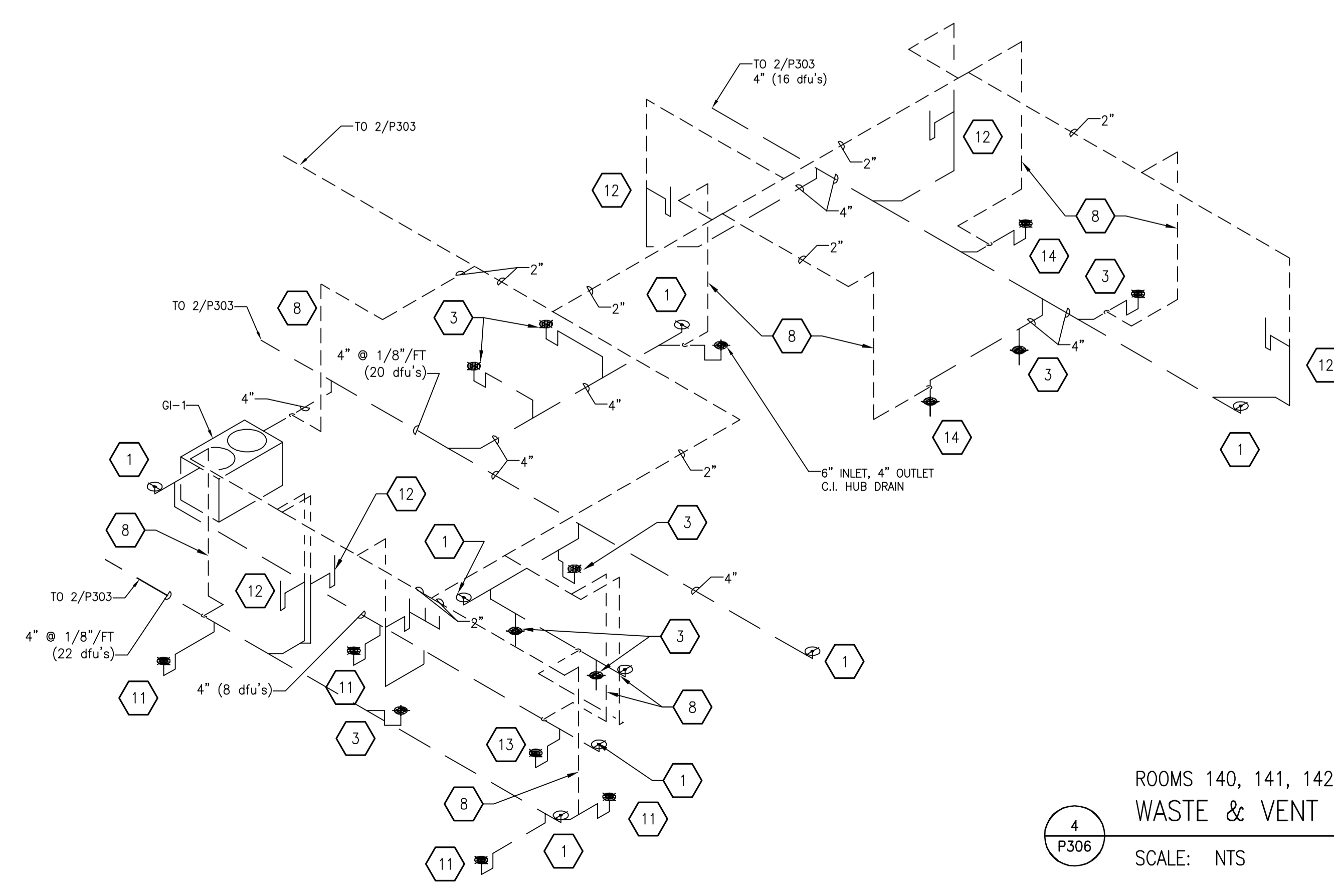
PLUMBING WASTE SPECIFIC NOTES	
1	CLEAN OUT
2	TD-1 TRENCH DRAIN
3	FD-1 FLOOR DRAIN
4	FD-2 FLOOR DRAIN
5	FD-3 FLOOR DRAIN
6	FD-4 FLOOR DRAIN
7	3" VENT DN
8	2" VENT DN
9	1-1/2" VENT DN
10	FS-1 FLOOR SINK
11	FS-2 FLOOR SINK
12	SINK
13	MOP BASIN
14	HUB DRAIN, 4" OUTLET
15	WALL CLEAN OUT



ROOMS 140, 141, 142 & 143  
SUPPLY ISOMETRIC  
SCALE: NTS



ROOMS 140, 141, 142 & 143  
WASTE & VENT ISOMETRIC  
SCALE: NTS



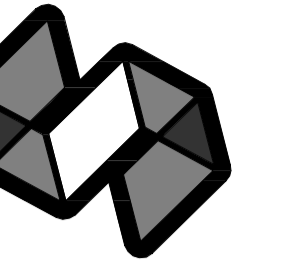
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FILE NAME	2013027_02-P306.DWG
REVISIONS	
DRAWN	DF
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
PLUMBING SUPPLY,  
WASTE & VENT  
ISOMETRICS

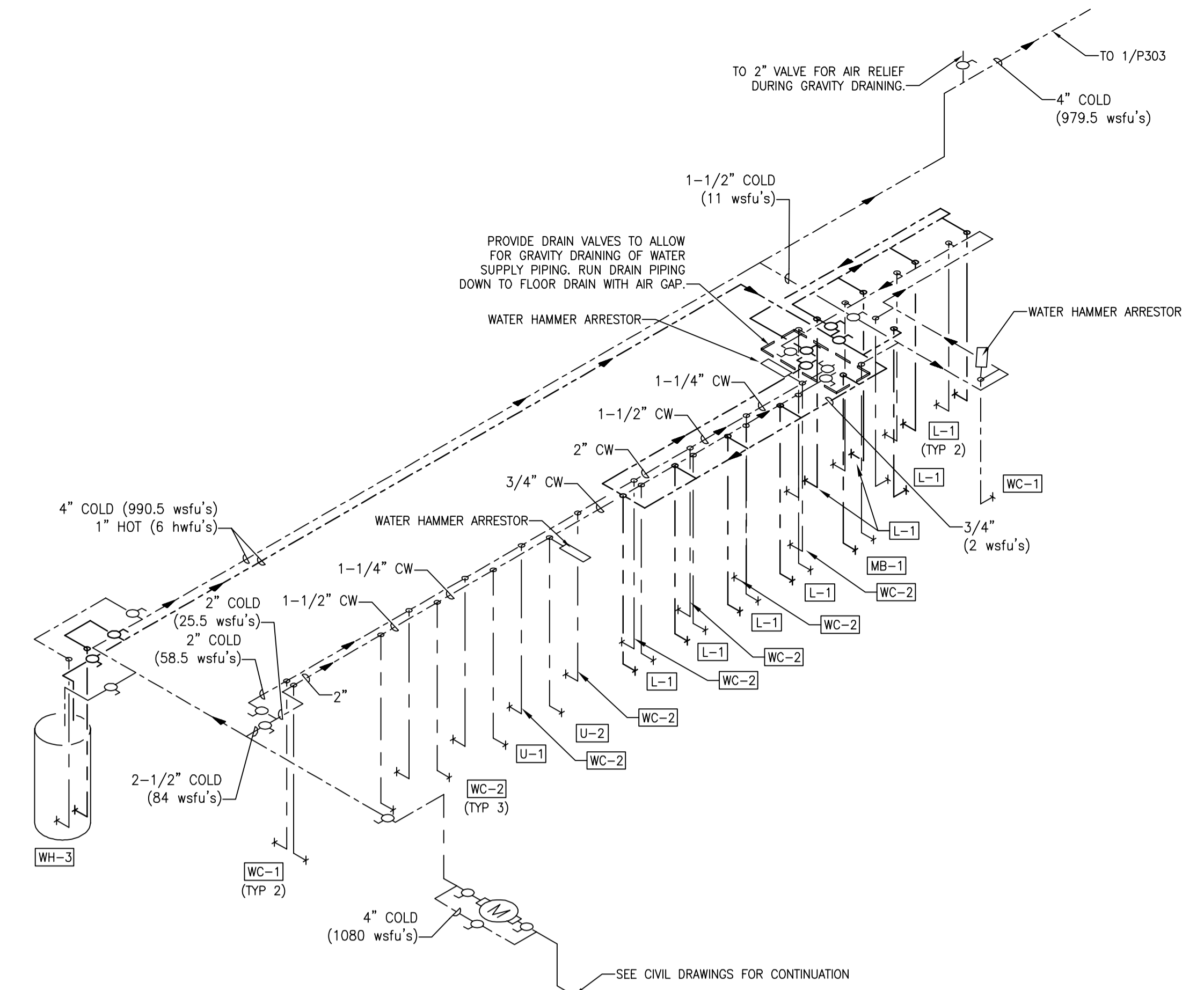
SHEET NO.  
P306



STRANG

ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

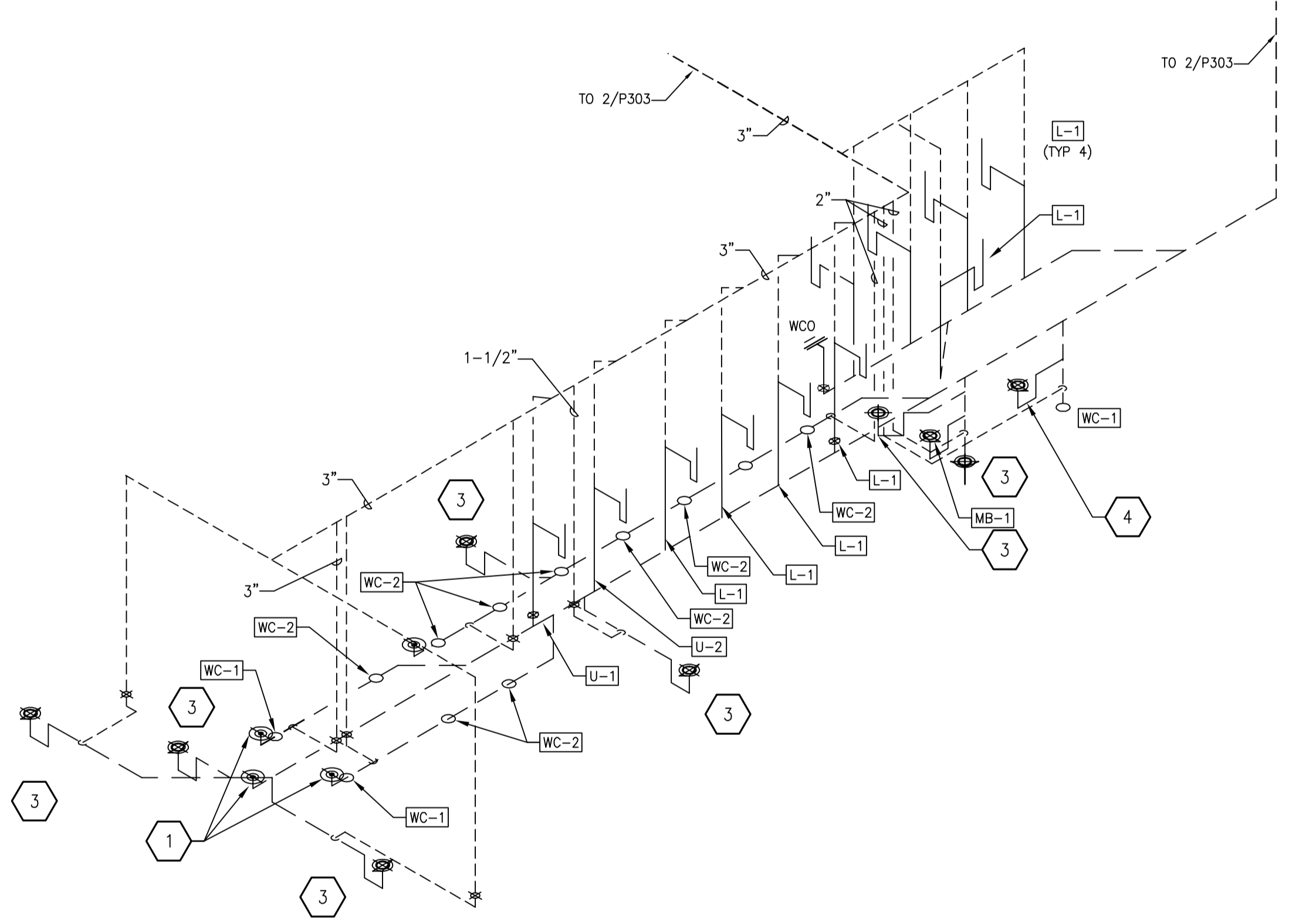
STRANG INC.  
6413 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 278 9200  
F/ 508 278 9204



ROOMS 134, 136, 137 & 138 (MIRROR FOR 144, 146, 147 & 148)

SUPPLY ISOMETRIC

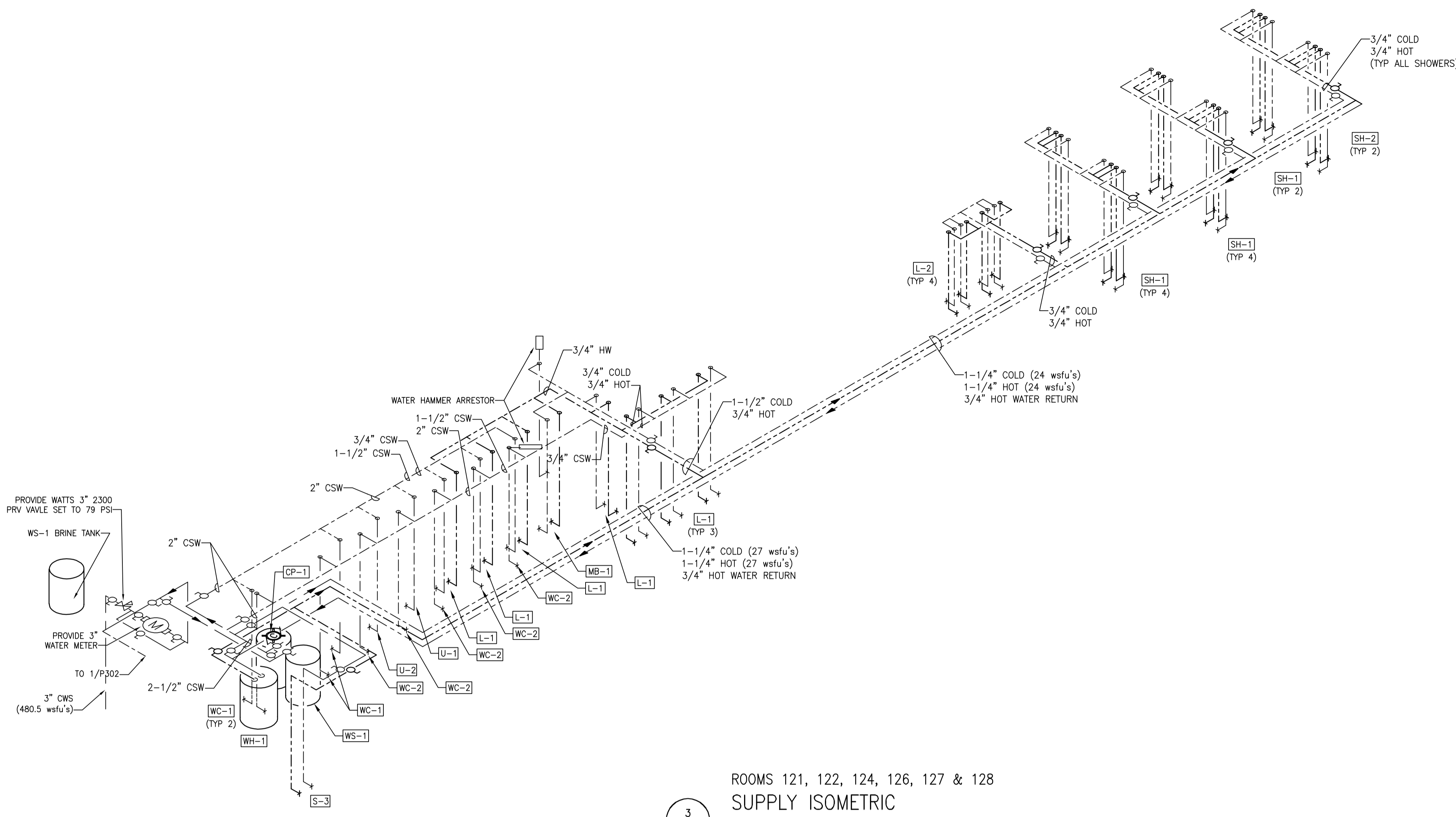
SCALE: NTS



ROOMS 134, 136, 137 & 138 (MIRROR FOR 144, 146, 147 & 148)

WASTE & VENT ISOMETRIC

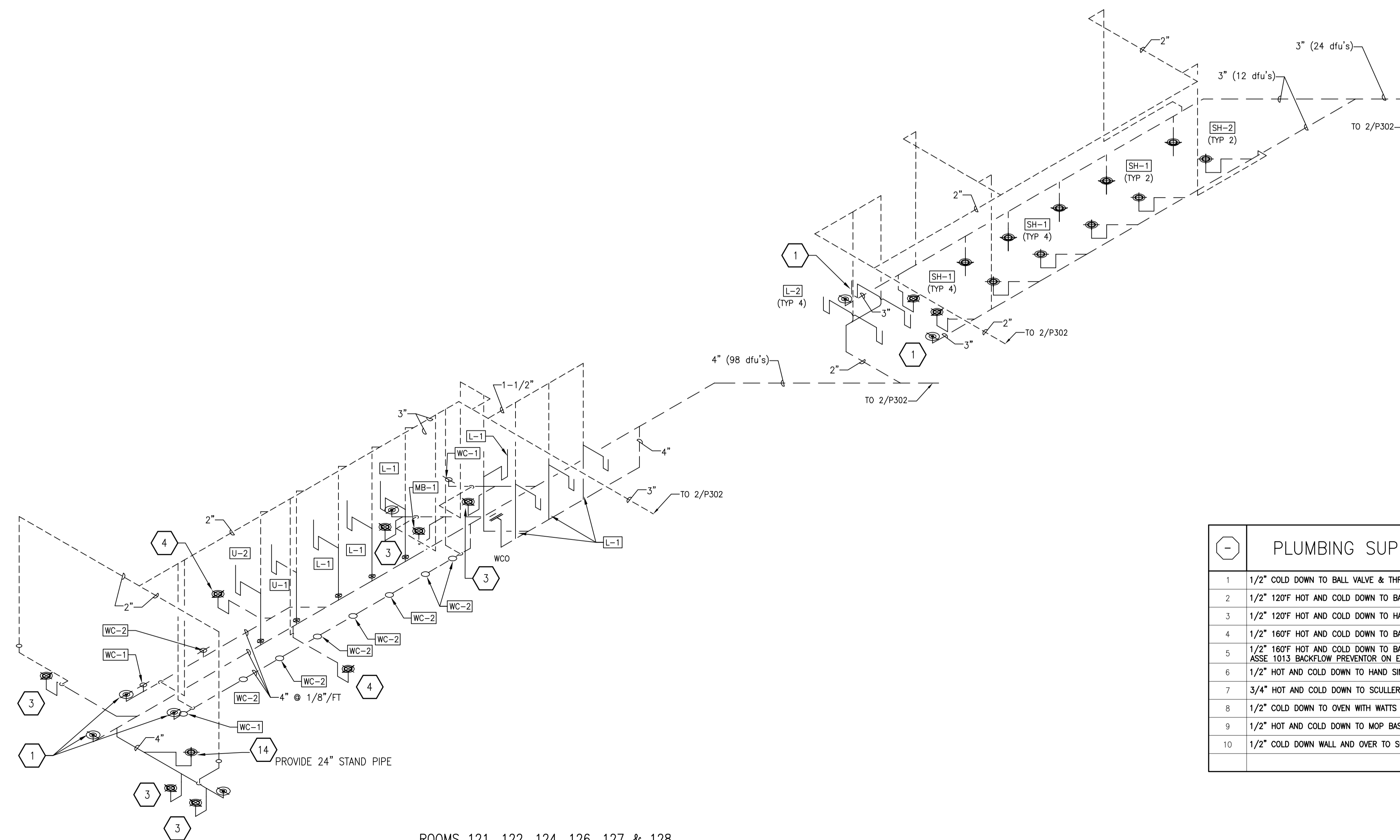
SCALE: NTS



ROOMS 121, 122, 124, 126, 127 & 128

SUPPLY ISOMETRIC

SCALE: NTS



ROOMS 121, 122, 124, 126, 127 & 128

WASTE & VENT ISOMETRIC

SCALE: NTS

PLUMBING SUPPLY SPECIFIC NOTES	
1	1/2" COLD DOWN TO BALL VALVE & THREADED FITTING. SET OUTLET AT 36" AFF.
2	1/2" 120°F HOT AND COLD DOWN TO BALL VALVES & THREADED FITTING. SET OUTLET AT 36" AFF.
3	1/2" 120°F HOT AND COLD DOWN TO HAND SINK.
4	1/2" 160°F HOT AND COLD DOWN TO BALL VALVES & THREADED FITTING. SET OUTLET AT 42" AFF.
5	1/2" 160°F HOT AND COLD DOWN TO BALL VALVES & THREADED FITTING. SET OUTLET AT 42" AFF WITH 1/2" 909 QTS ASSE 1013 BACKFLOW PREVENTOR ON EACH LINE.
6	1/2" HOT AND COLD DOWN TO HAND SINK.
7	3/4" HOT AND COLD DOWN TO SCULLERY SINK.
8	1/2" COLD DOWN TO OVEN WITH WATTS 90 (ASSE 1012 BACKFLOW PREVENTOR).
9	1/2" HOT AND COLD DOWN TO MOP BASIN.
10	1/2" COLD DOWN WALL AND OVER TO SODA MACHINE WITH INLINE WATTS 50-3 (ASSE 1022) BACKFLOW PREVENTOR.

PLUMBING WASTE SPECIFIC NOTES	
1	CLEAN OUT
2	TD-1 TRENCH DRAIN
3	FD-1 FLOOR DRAIN
4	FD-2 FLOOR DRAIN
5	FD-3 FLOOR DRAIN
6	FD-4 FLOOR DRAIN
7	3" VENT DN
8	2" VENT DN
9	1-1/2" VENT DN
10	FS-1 FLOOR SINK
11	FS-2 FLOOR SINK
12	SINK
13	MOP BASIN
14	HUB DRAIN, 4" OUTLET
15	WALL CLEAN OUT

DRAWING SET	CD
COPYRIGHT	2013
FILE NAME	2013027_02-P307.DWG
REVISIONS	

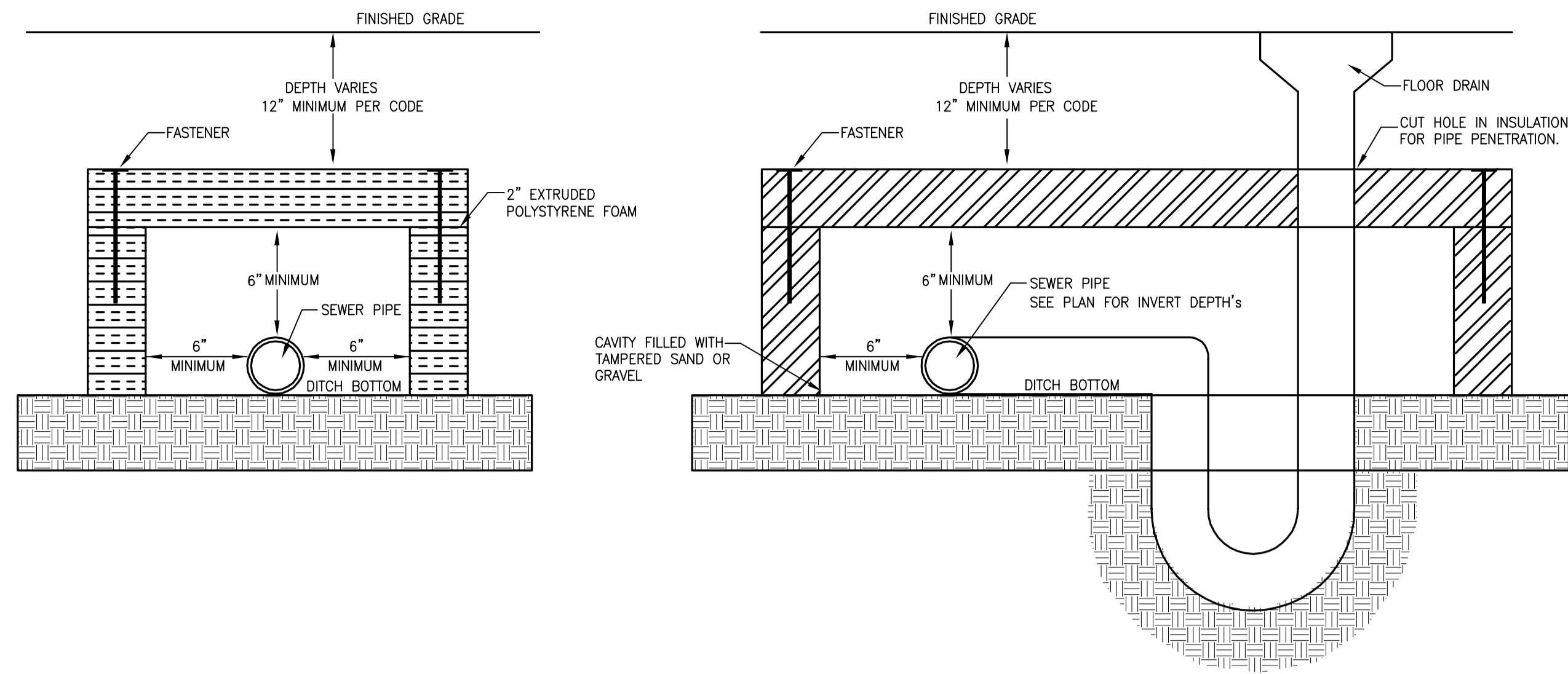
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ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

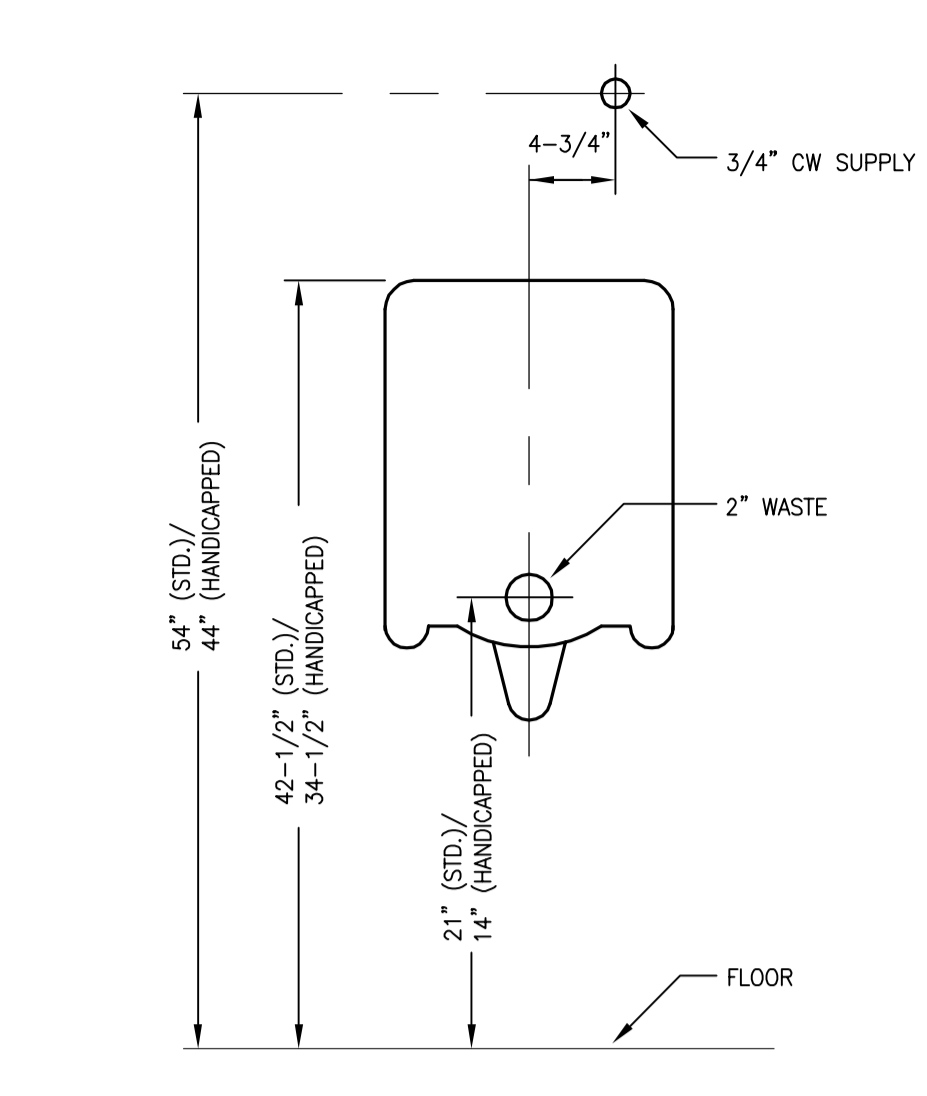
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
PLUMBING SUPPLY,  
WASTE & VENT  
ISOMETRICS

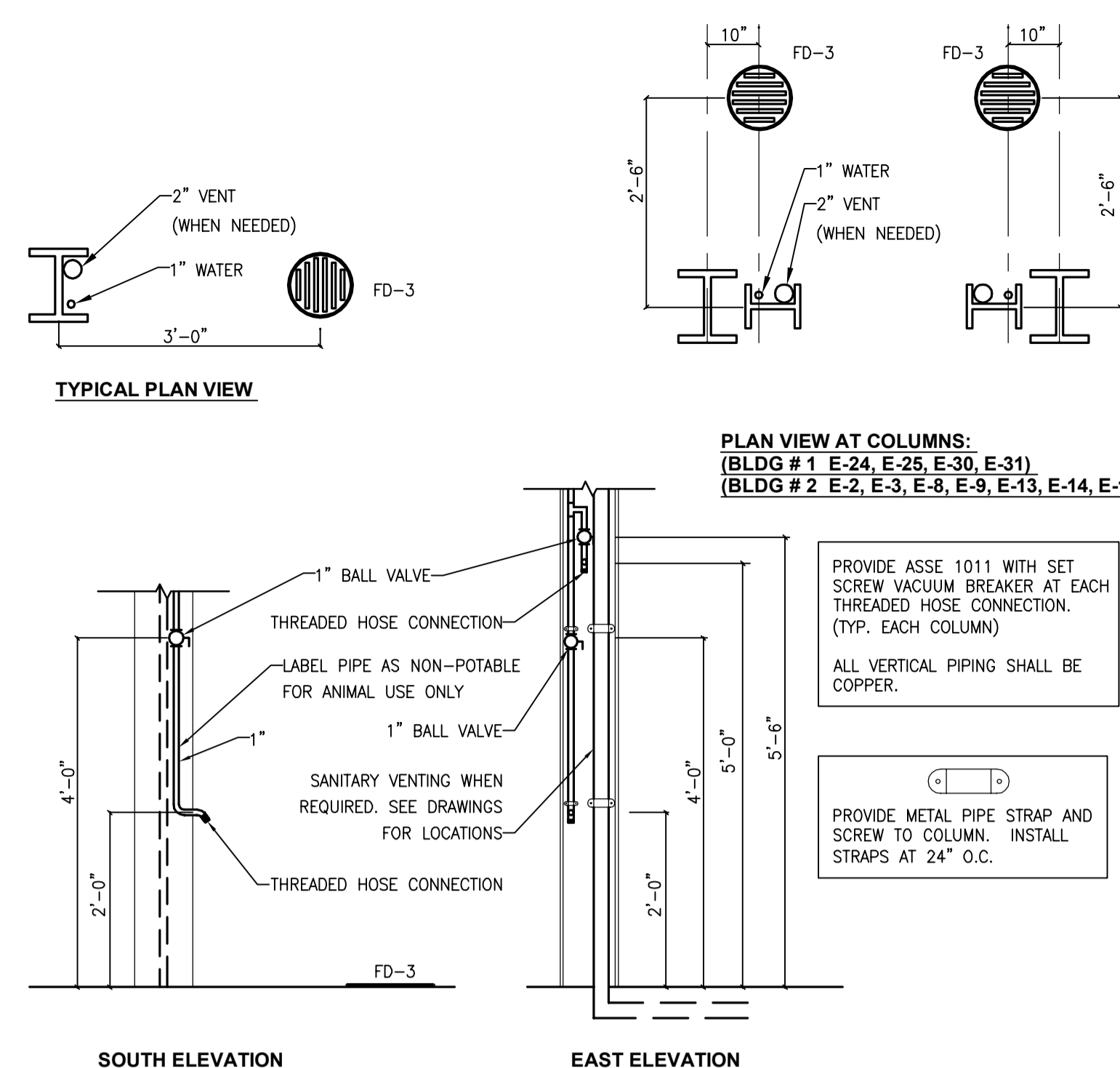
SHEET NO.  
P307



12 P401 SANITARY INSULATION DETAIL  
SCALE: N.T.S.



8 P401 URINAL  
SCALE: N.T.S.

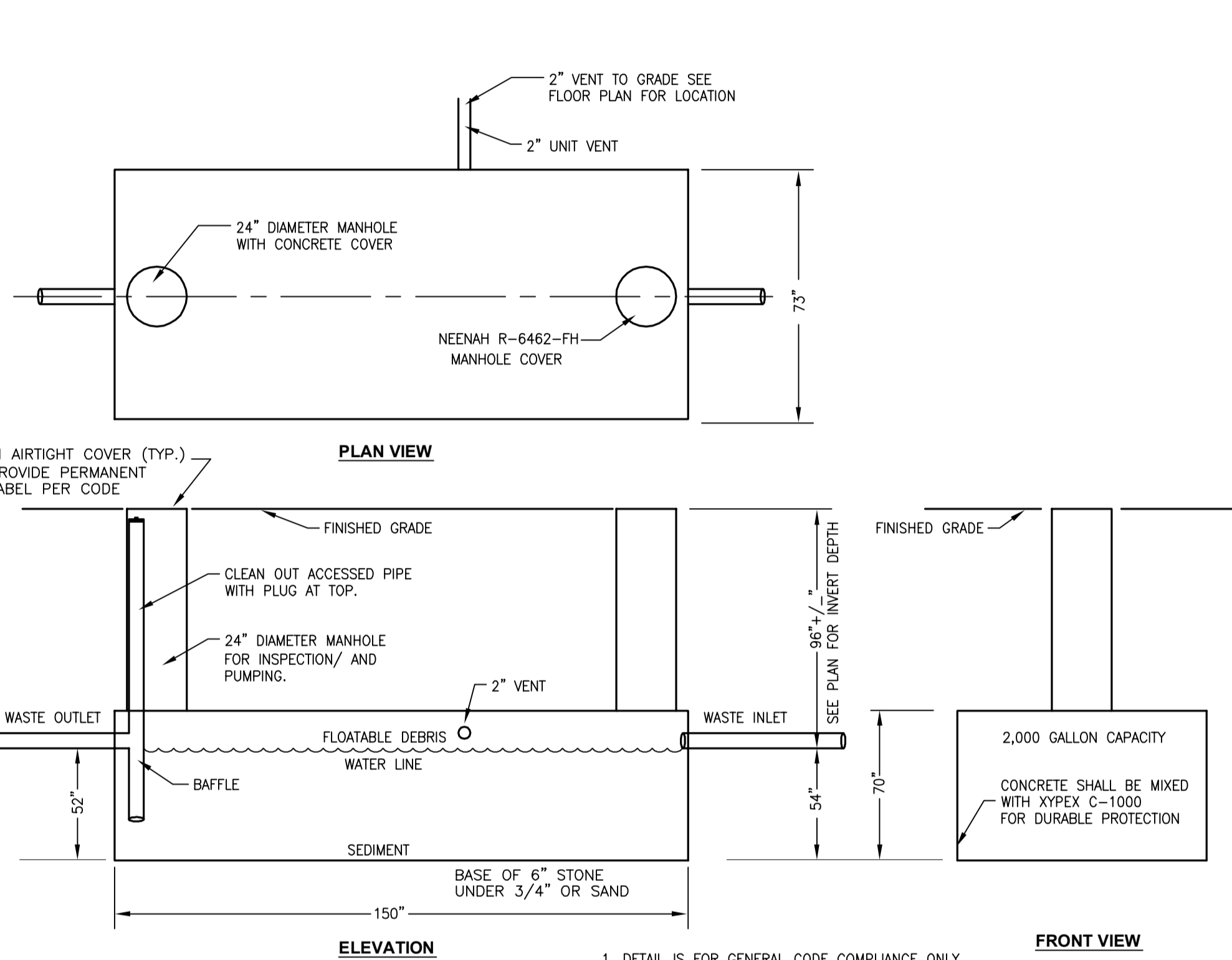


4 P401 WATER AT COLUMN DETAIL (HS-1)  
SCALE: N.T.S.

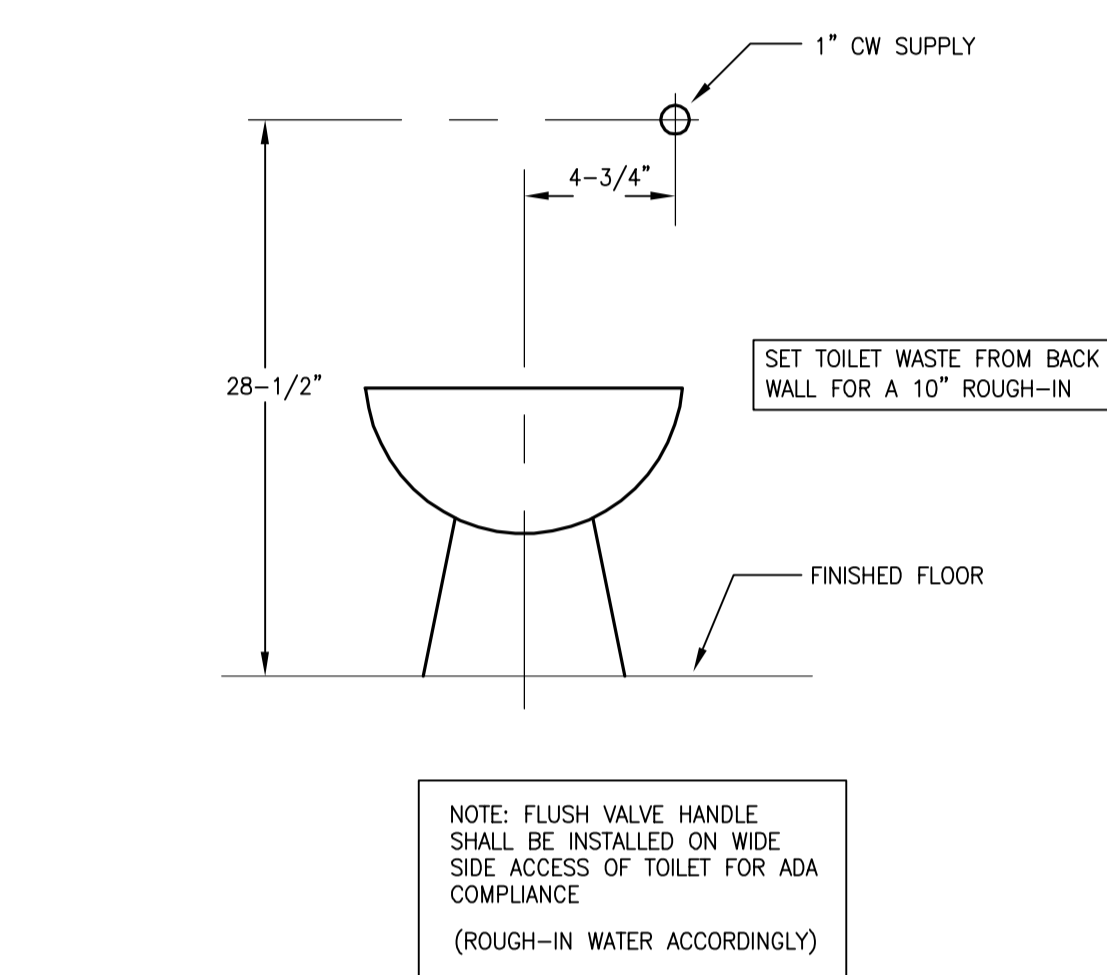
**PLUMBING LEGEND**

PLUMBING SYMBOL LEGEND		PLUMBING ABBREVIATIONS	
S/W	Waste Pipe Below Grade	EW	Electric Water Cooler
V	Vent Pipe	FD	Floor Drain
CCW	Conditioned Cold Water	SD	Site Drain
CW	Cold Water Pipe	WCO	WALL CLEAN OUT
HW	Hot Water Pipe	FFCO	FLUSH FLOOR CLEAN OUT
HWR	Hot Water Recirculation Pipe		
GV	Gate Valve		
CV	Check Valve		
BV	Ball Valve	WA	WATER HAMMER ARRESTOR
UP	Pipe Up	TM	THERMOSTATIC MIXING VALVE
DN	Pipe Down	BL	BALL VALVE
CP	Capped Pipe	FD	FLOW DIRECTION
---	Pressure Gauge	PR	PRESSURE REGULATING VALVE
---	Thermometer & Well		
VTR	Vent Thru Roof		
---	Strainer		
BV	Butterfly Valve		
BSV	Balance, Shut-Off Valve		
PRV	Pressure Reducing Valve		
---	Pump		
WCO	Wall Cleanout		
FCO	Floor Cleanout		

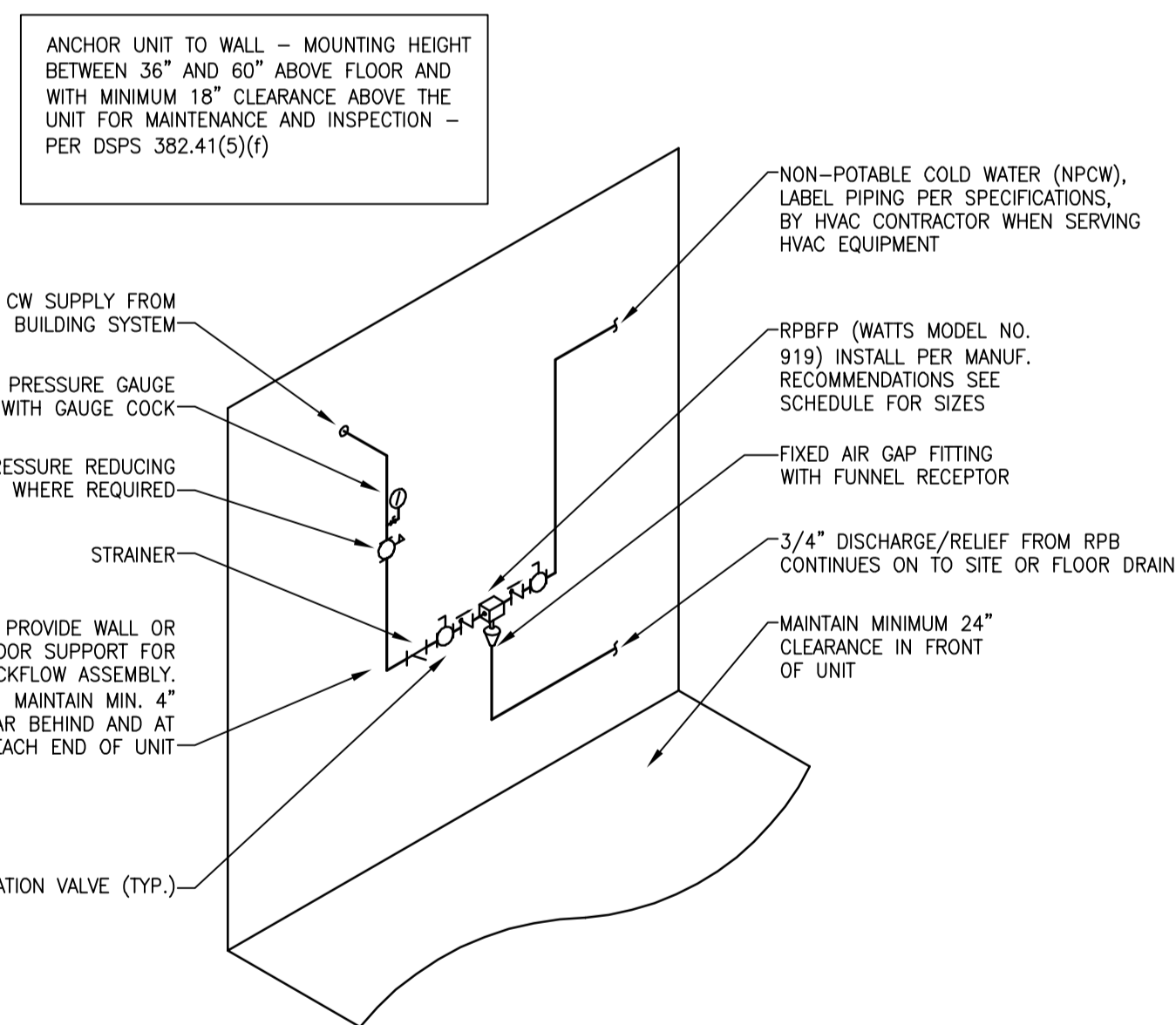
1 P401 PLUMBING LEGEND  
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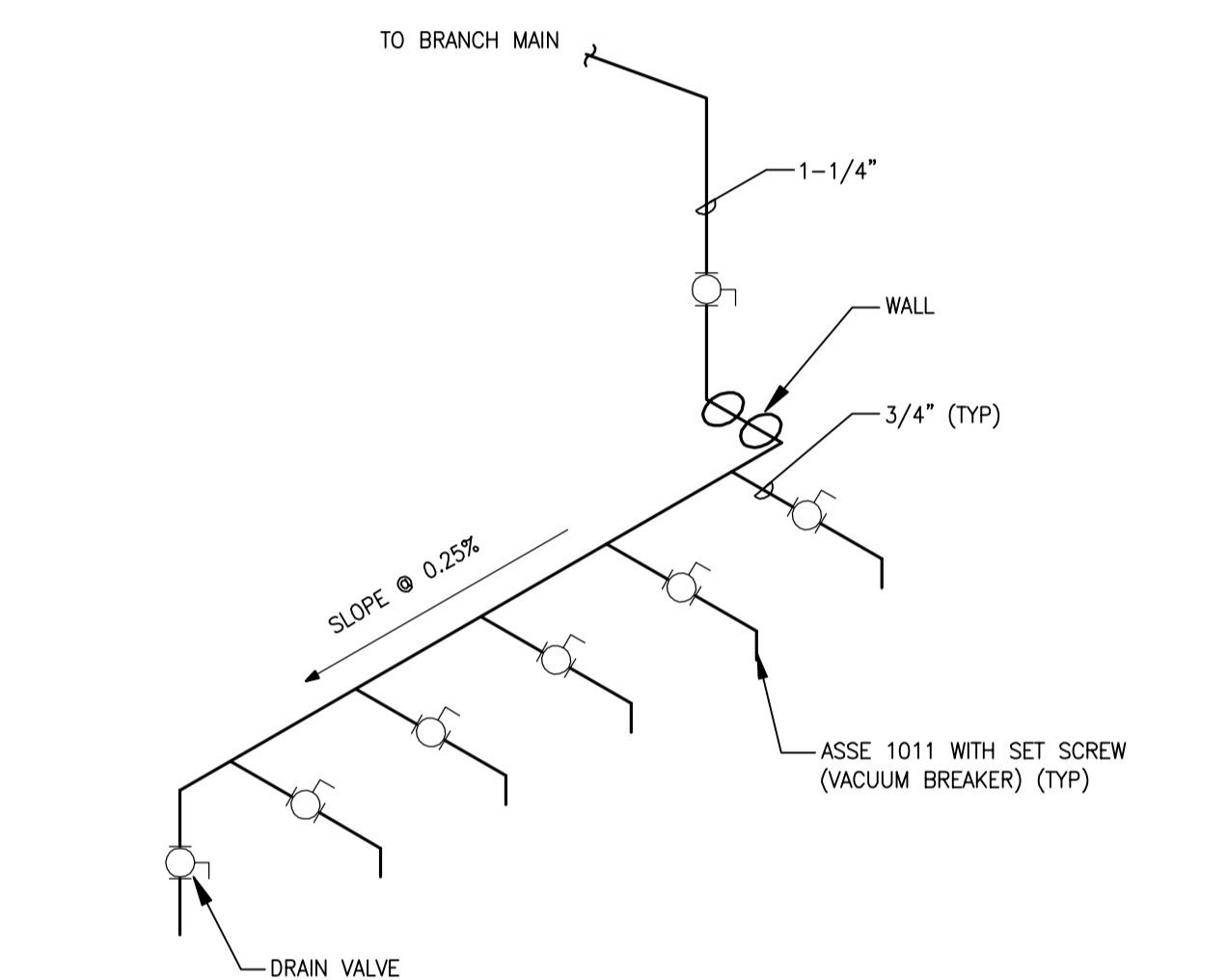
13 P401 SEDIMENT SEPERATOR TANKS (SST-1)  
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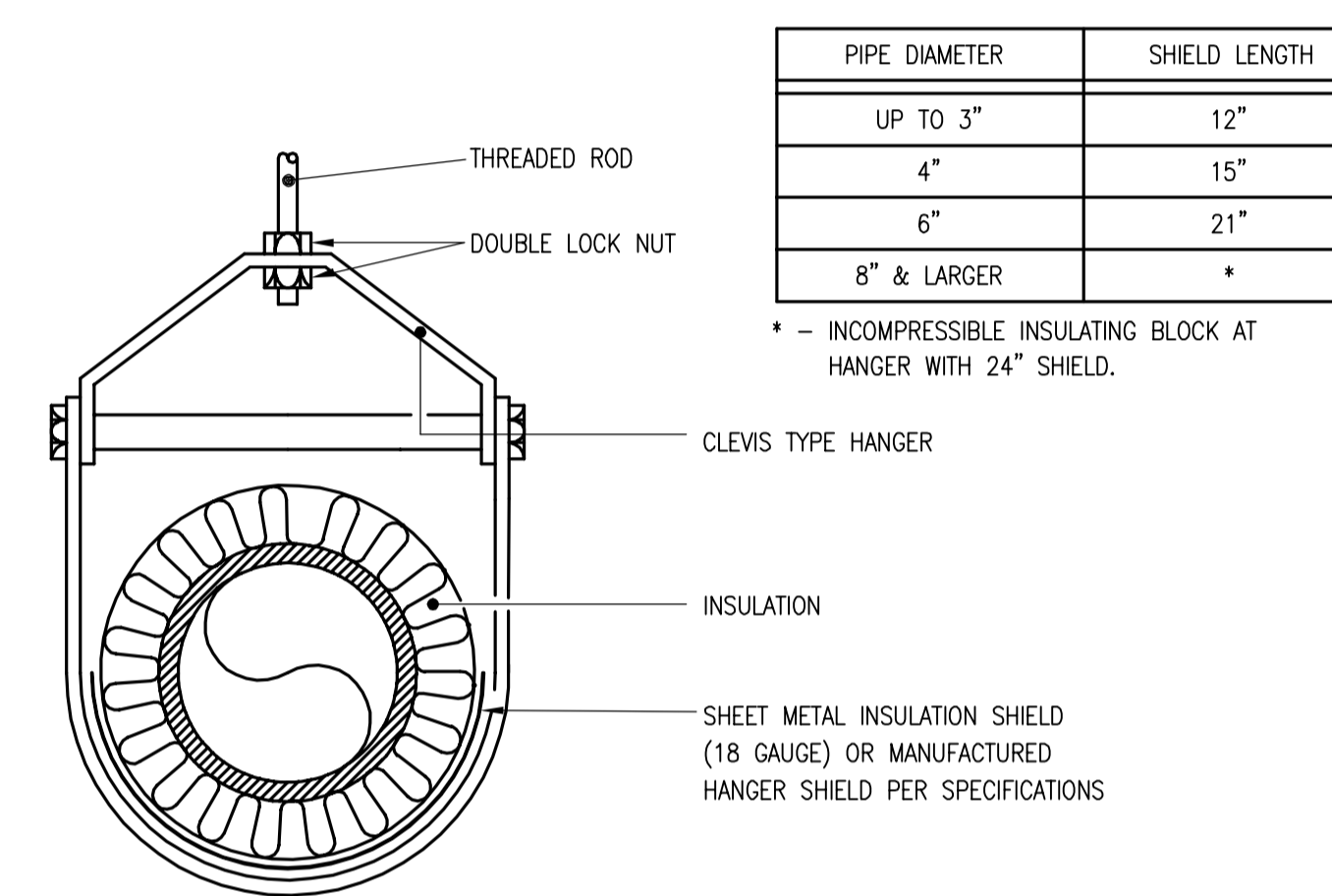
9 P401 FLUSH VALVE WC-FLR MT- ADA  
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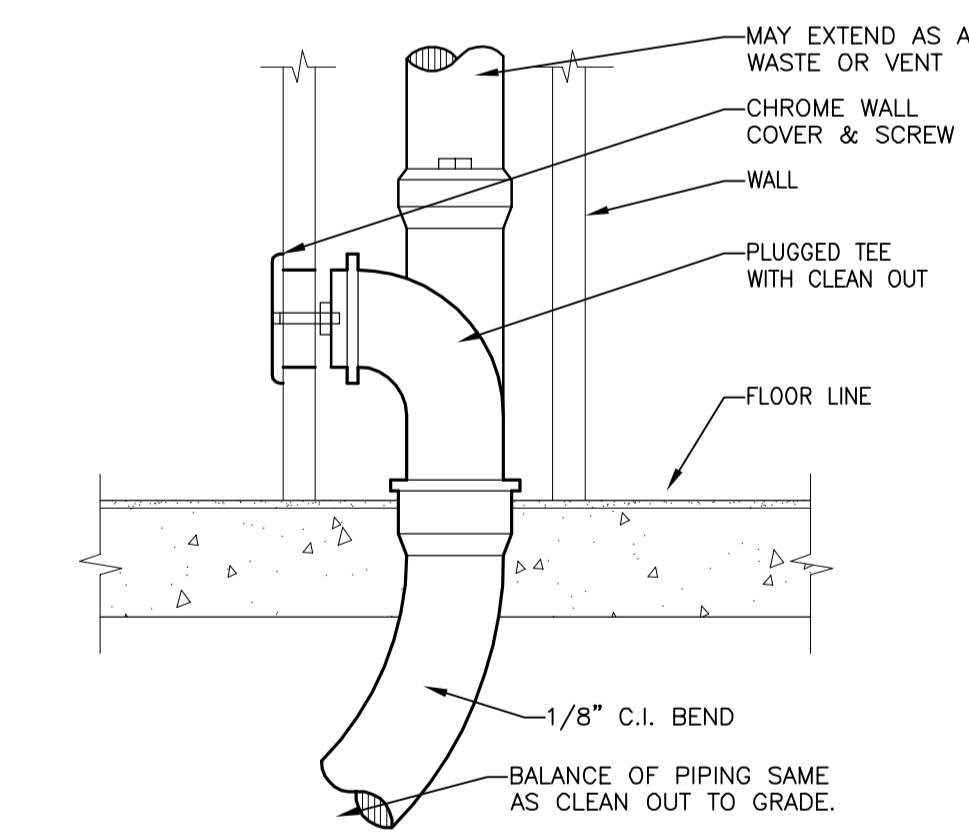
10 P401 BACKFLOW DETAIL (MILK PARLOR)  
SCALE: N.T.S.



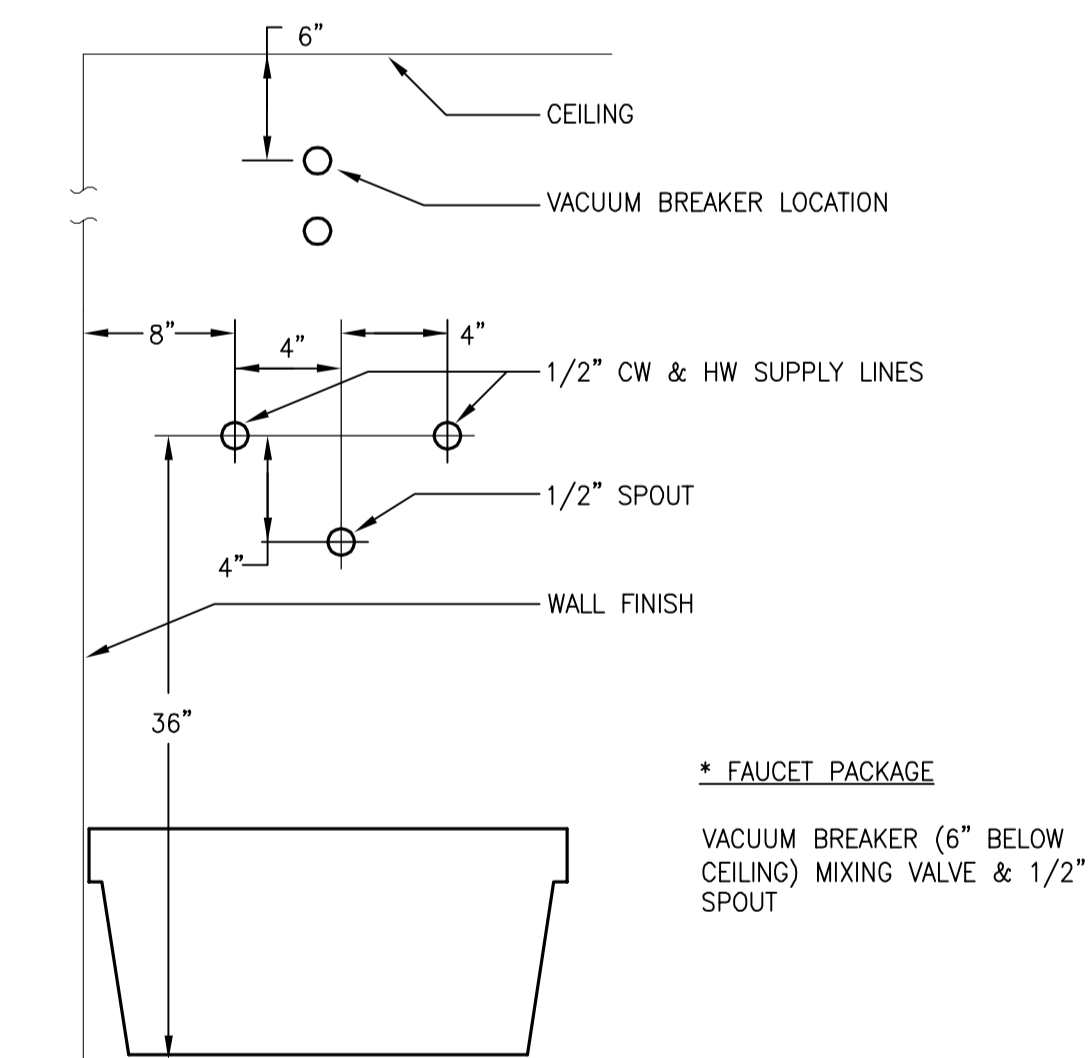
5 P401 WASH BAY DETAIL  
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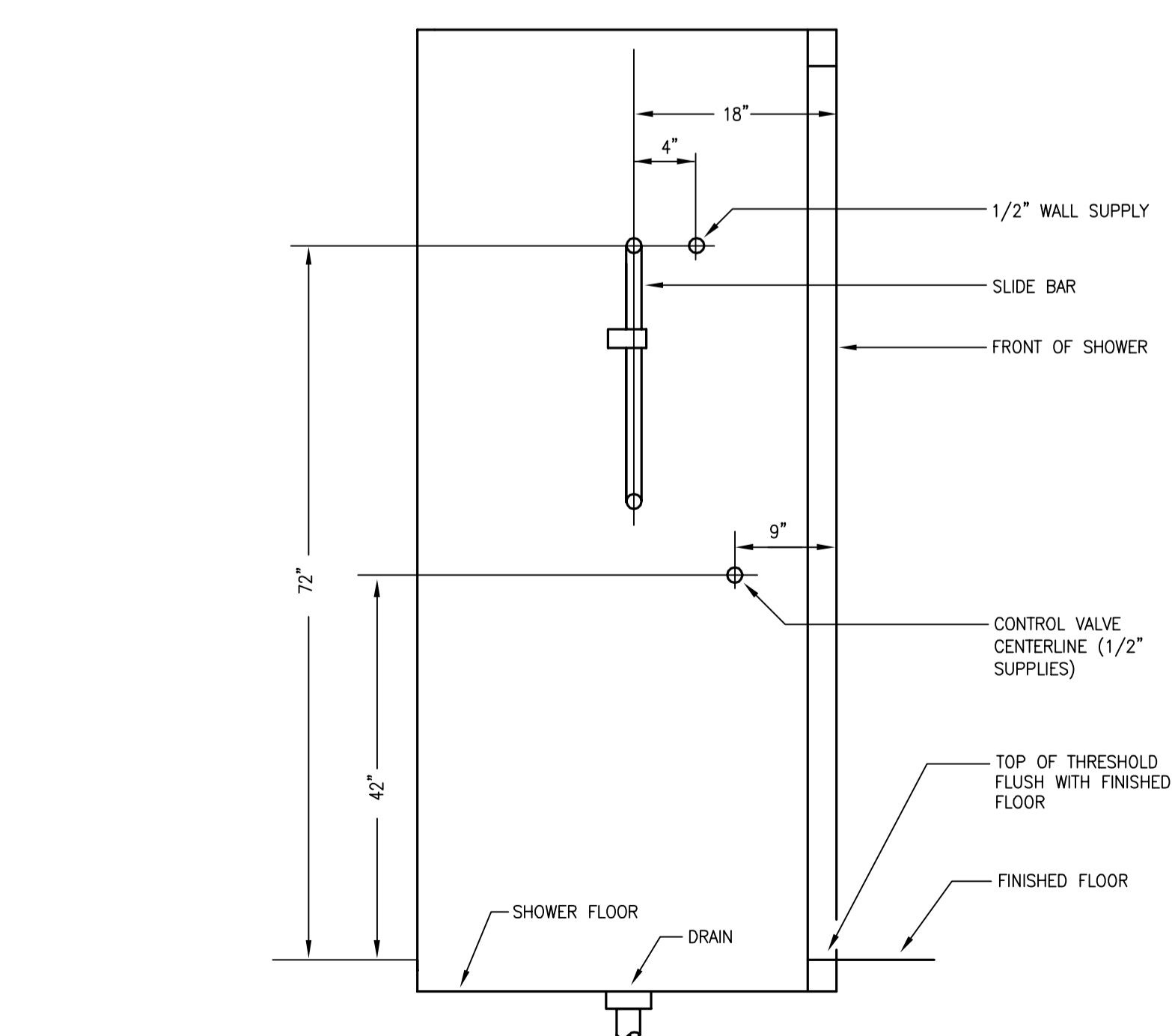
2 P401 INSULATED PIPE SUPPORT  
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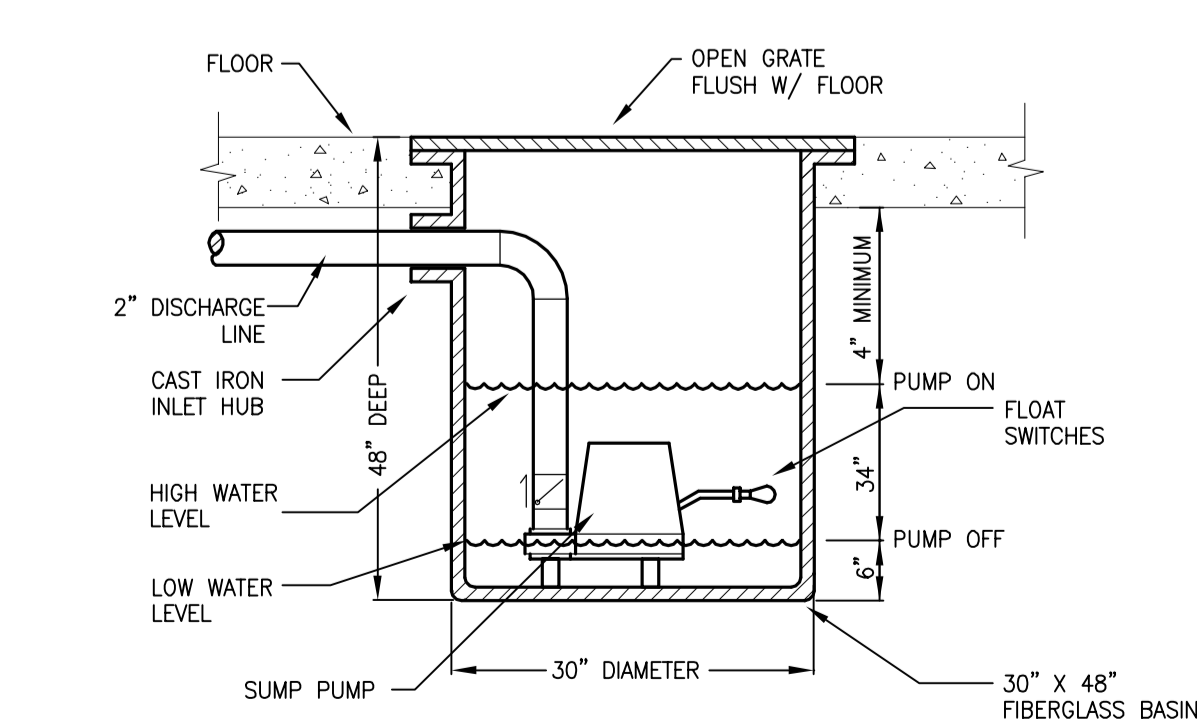
6 P401 WALL CLEAN-OUT DETAIL (WCO)  
SCALE: N.T.S.



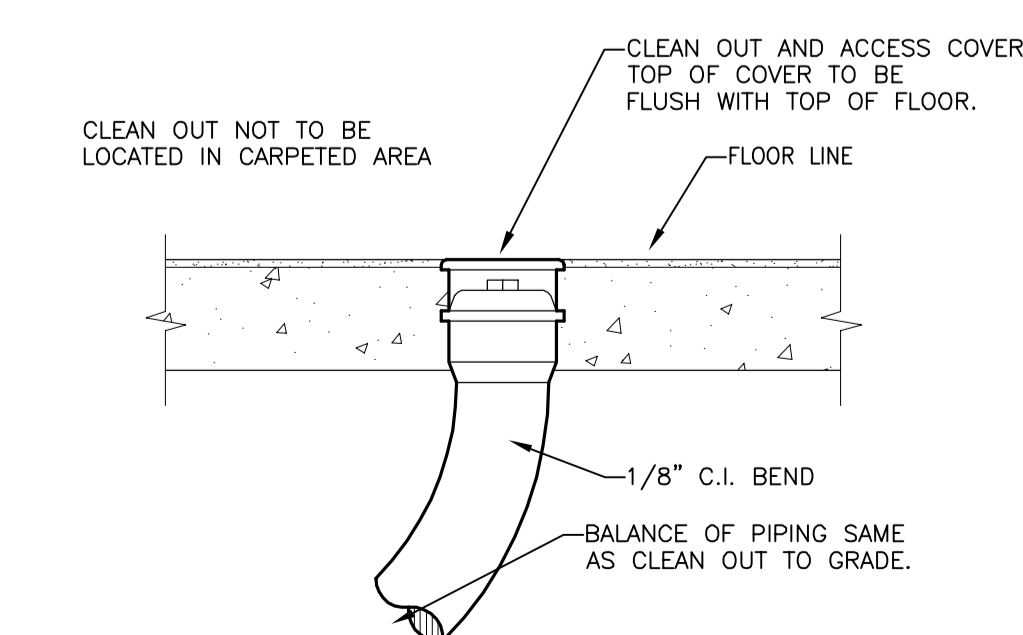
3 P401 MOP BASIN  
SCALE: N.T.S.



14 P401 ADA SHOWER  
SCALE: N.T.S.



11 P401 ELEVATOR SUMP BASIN DETAIL  
SCALE: N.T.S.



7 P401 FLOOR CLEAN-OUT DETAIL (FCO)  
SCALE: N.T.S.



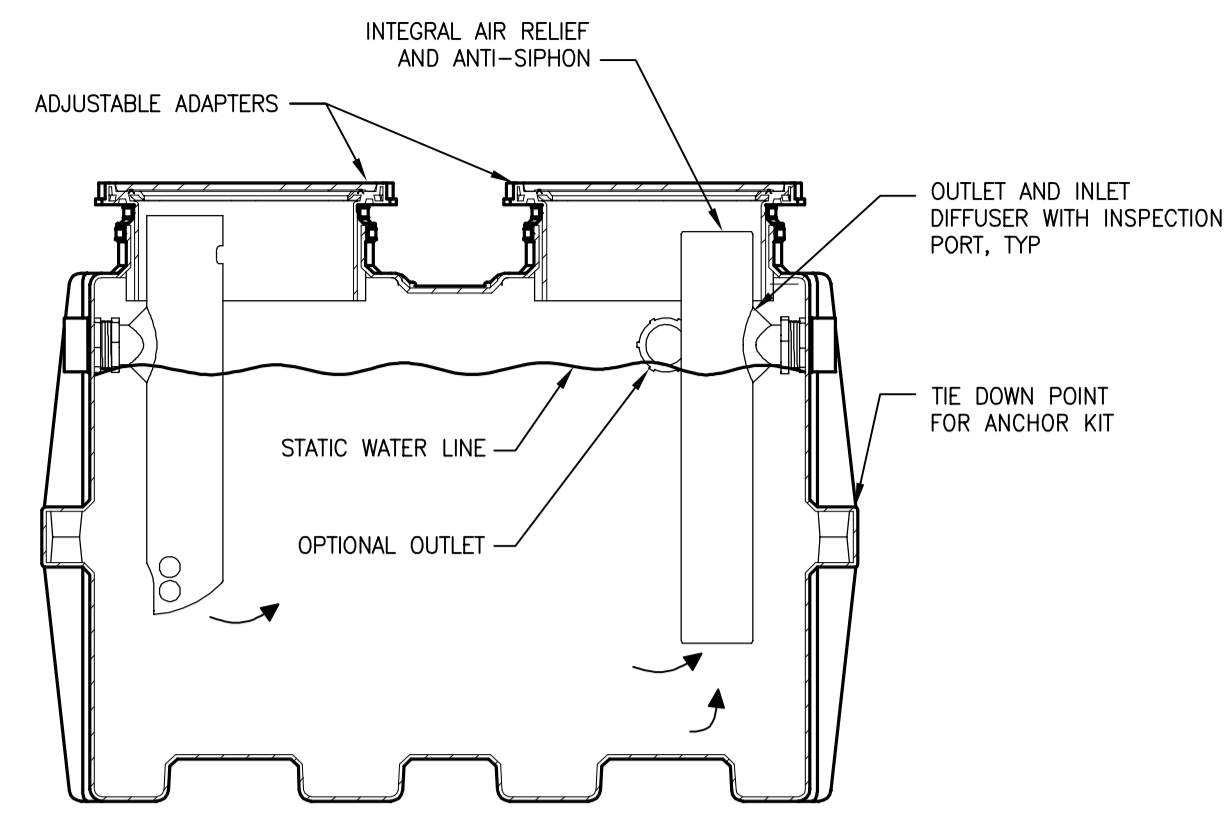
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PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

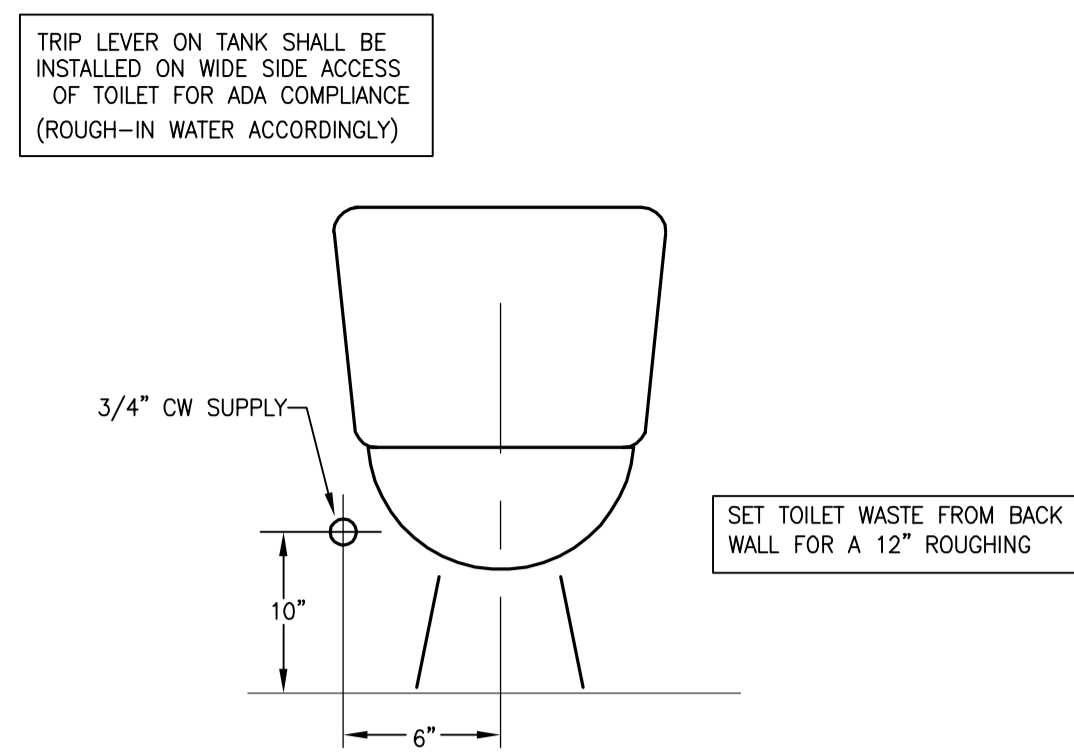
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
PLUMBING DETAILS

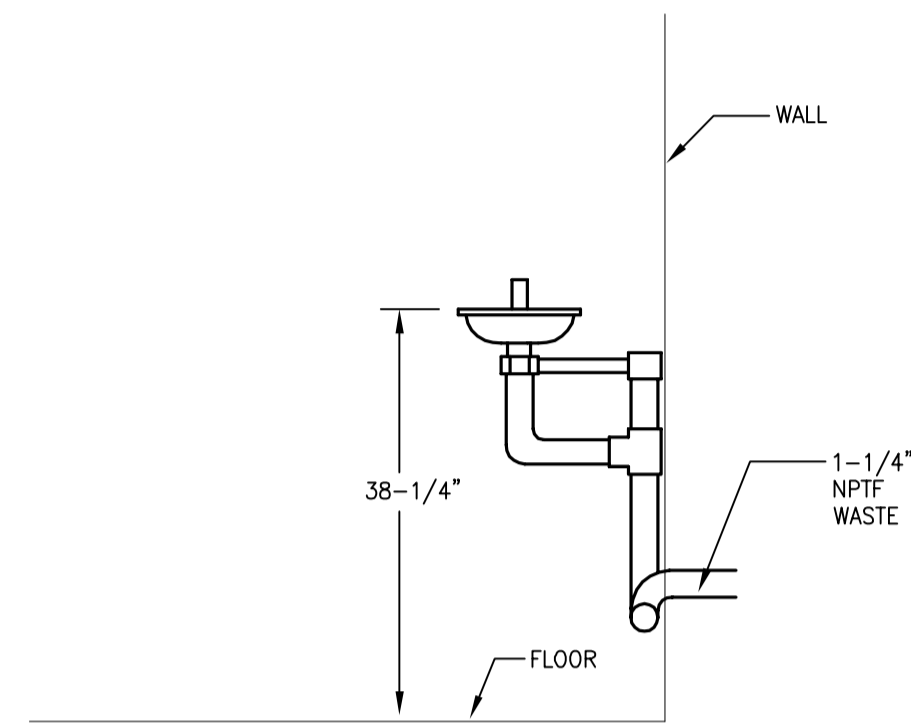
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P401



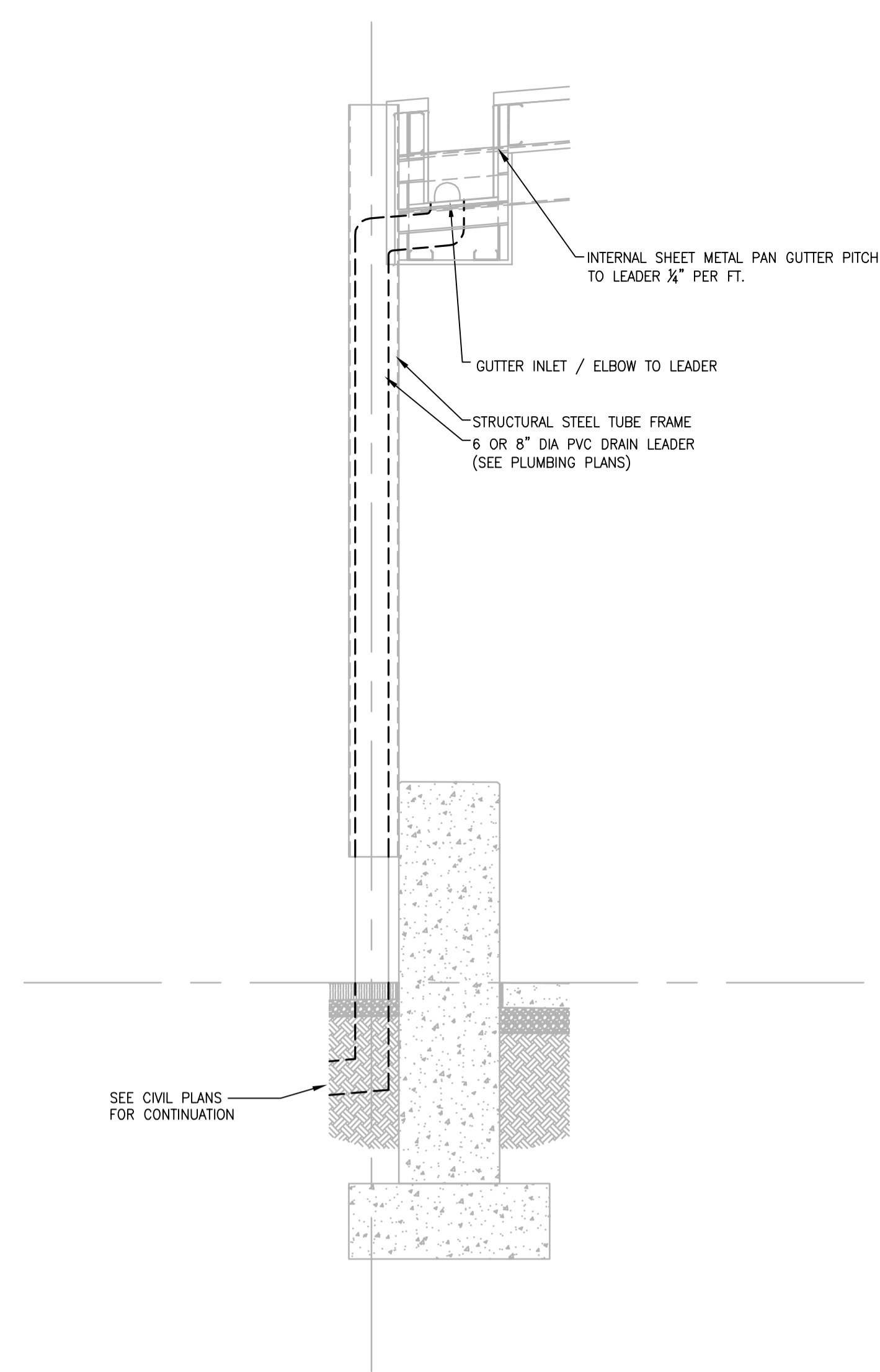
11  
P402  
GREASE INTERCEPTOR  
SCALE: N.T.S.



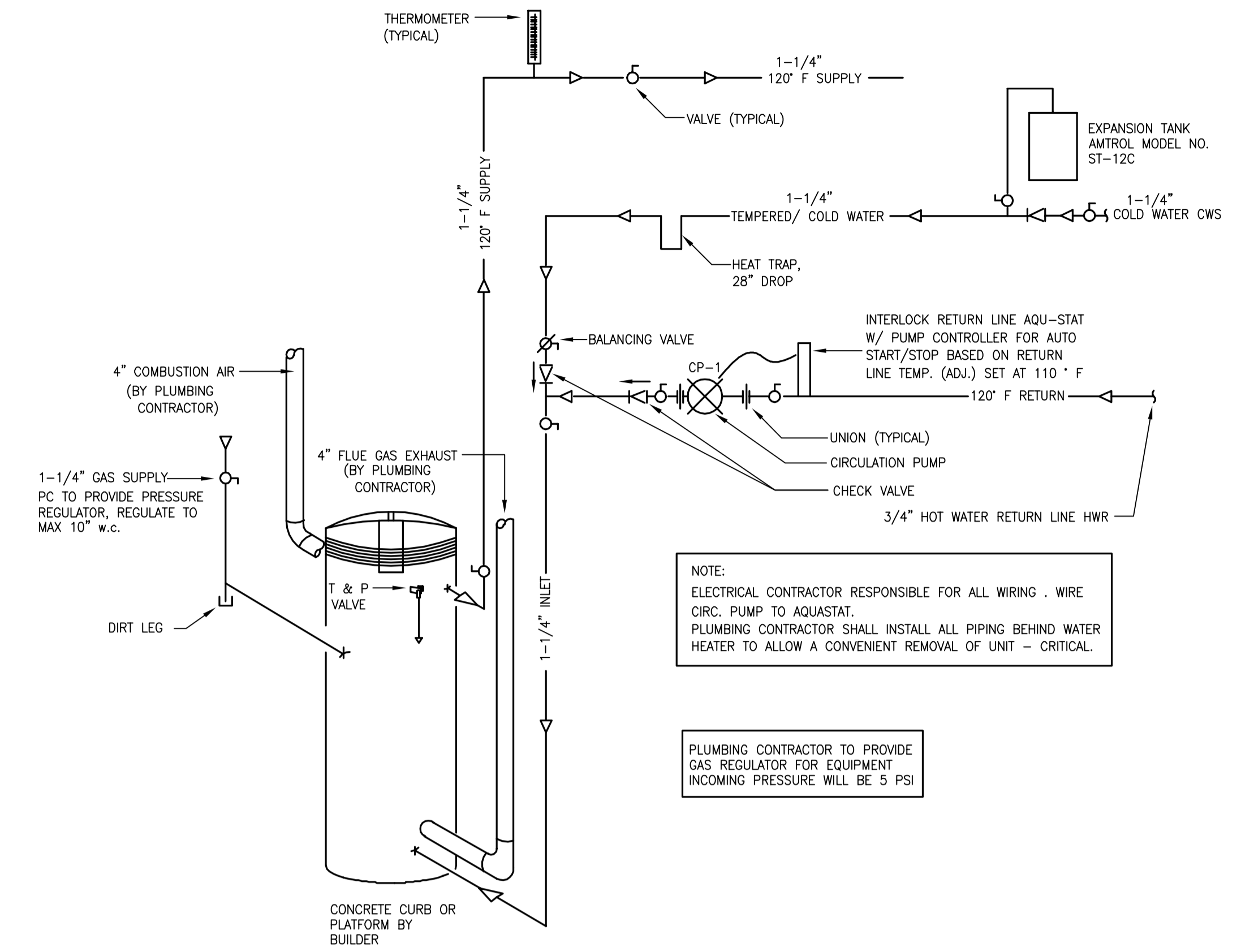
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P402  
WC-TANK (PRESSURE ASSISTED)  
SCALE: NONE



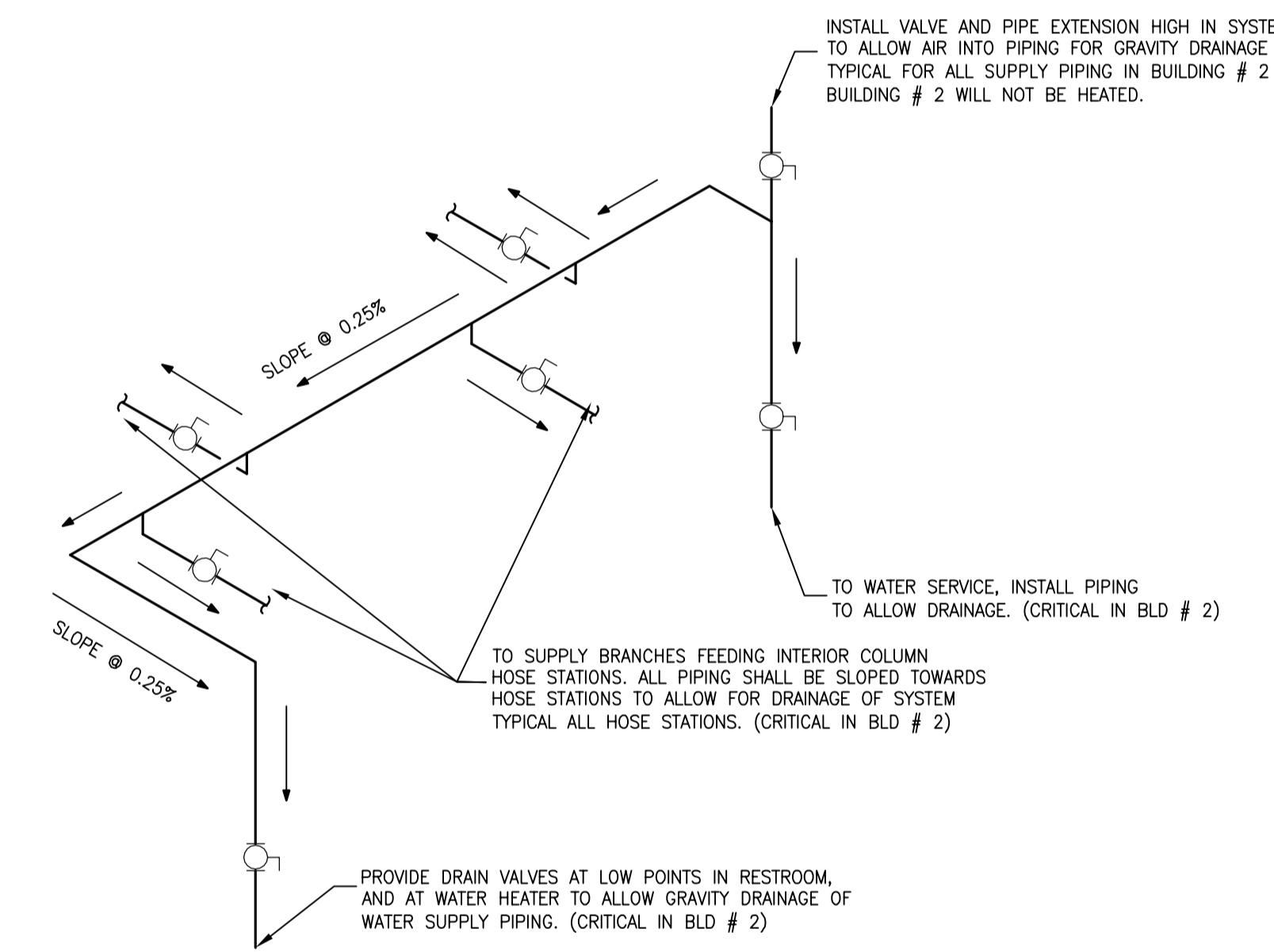
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P402  
EMERGENCY EYE WASH  
SCALE: N.T.S.



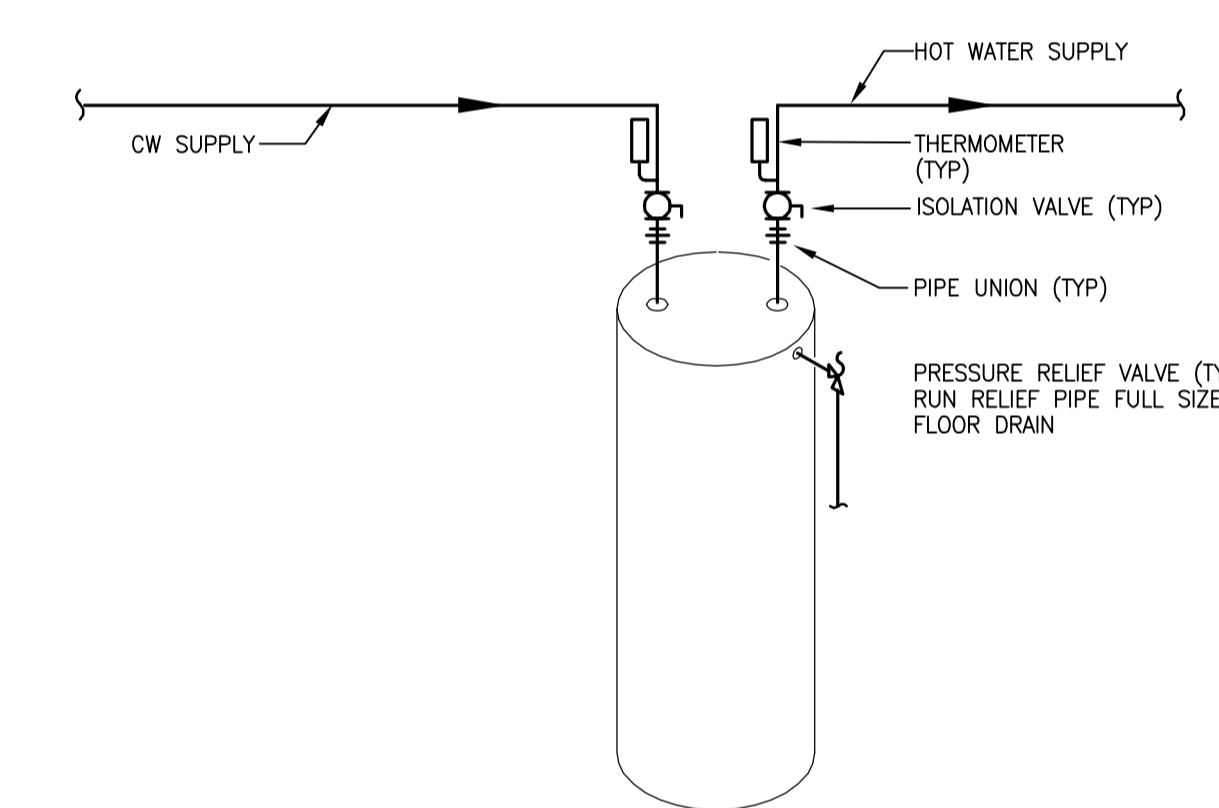
4  
P402  
STORM WATER LEADER AT COLUMN  
SCALE: NONE



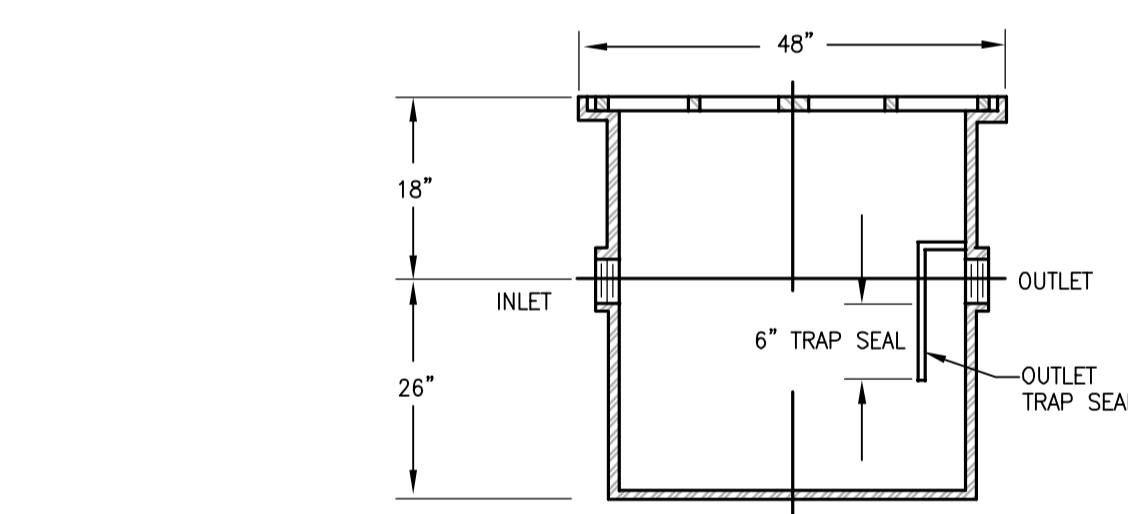
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P402  
WATER HEATER SYSTEM DETAIL (WH-1)  
SCALE: N.T.S.



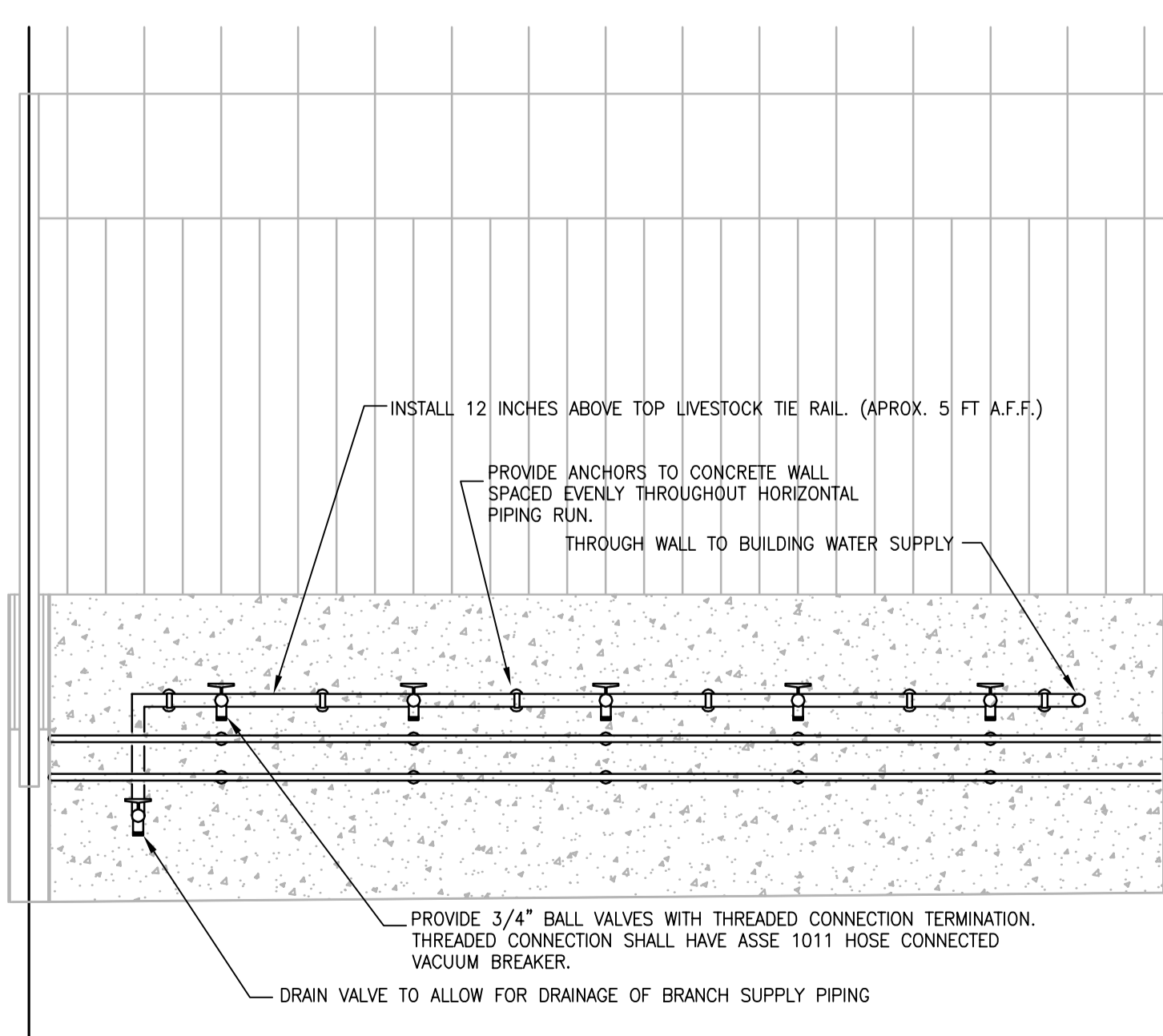
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P402  
GENERAL PIPING DETAIL  
SCALE:



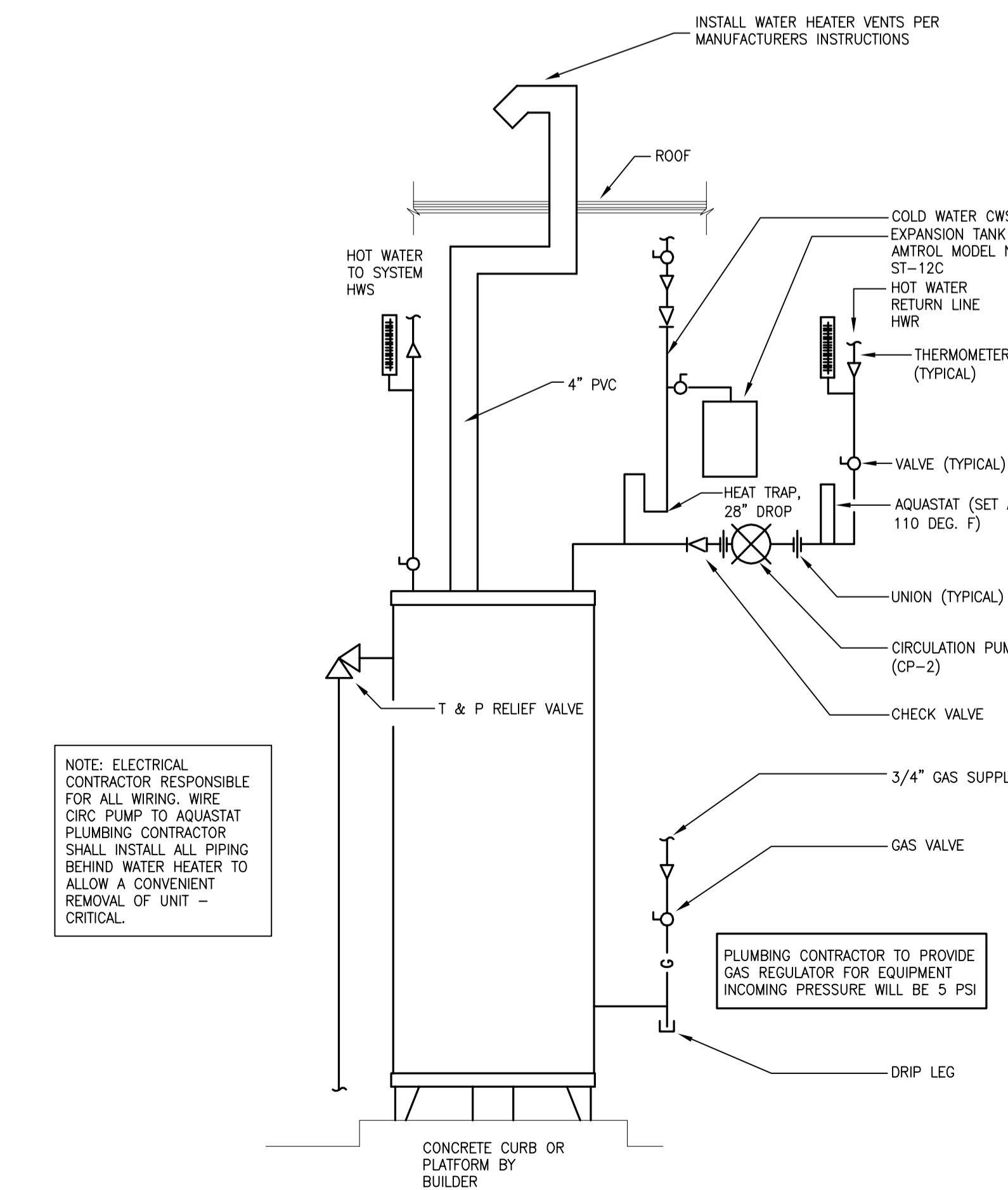
2  
P402  
WATER HEATER DETAIL (WH-3, WH-4)  
SCALE: NONE



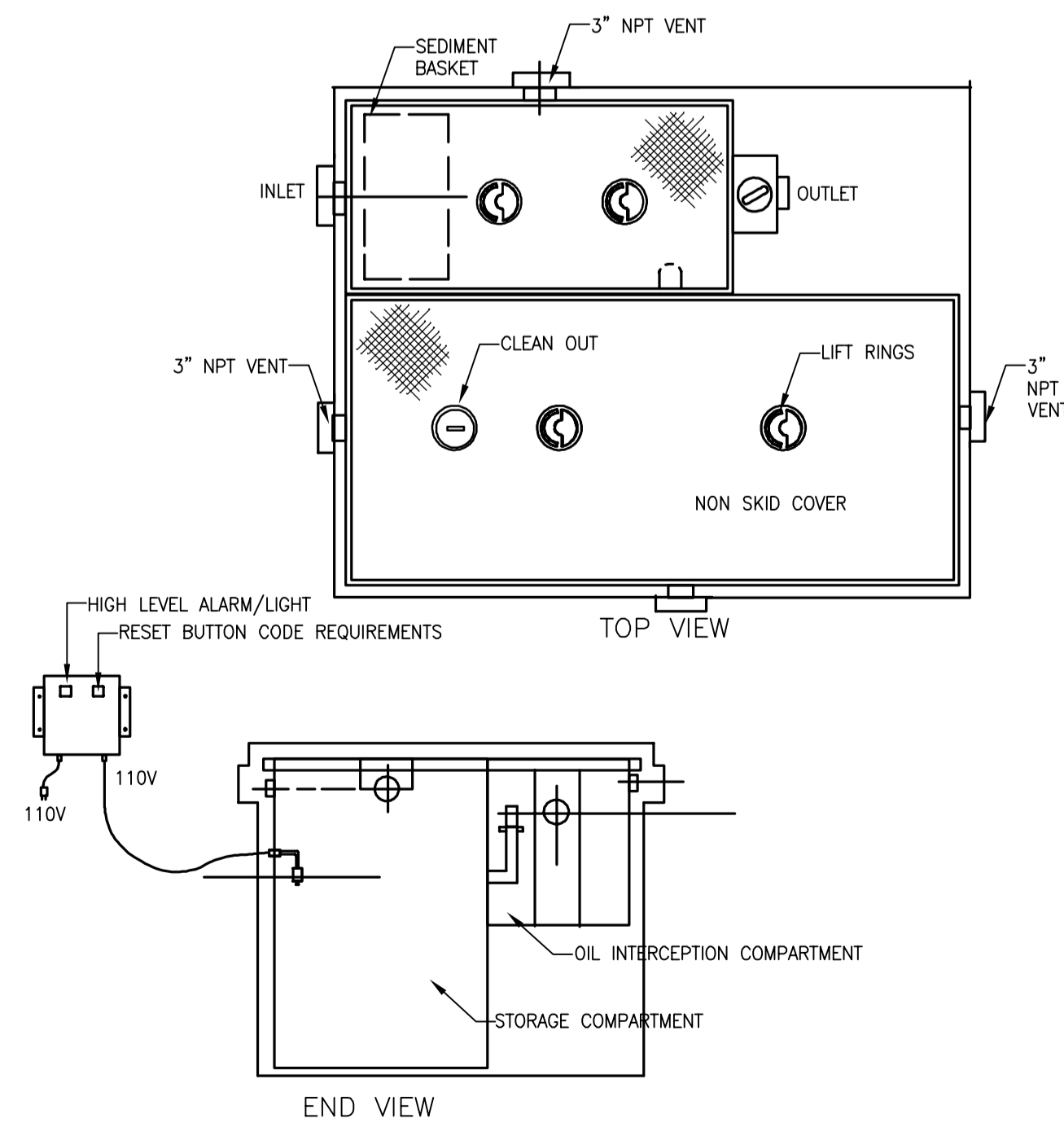
9  
P402  
SAND TRAP  
SCALE: N.T.S.



6  
P402  
WASH BAY ELEVATION DETAIL  
SCALE:



3  
P402  
WATER HEATER DETAIL (WH-2)  
SCALE: NONE



10  
P402  
OIL INTERCEPTOR  
SCALE: N.T.S.

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ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE  
PLUMBING DETAILS

SHEET NO.  
P402



CROSS CONNECTION CONTROL SCHEDULE									
BFP #	QTY	STANDARD	TYPE	SIZE	GPM	PSI LOSS	LOCATION	SERVICE	REMARKS
1	1	ASSE 1013	RPBP	2"	18	13	MECHANICAL ROOM # 142	COLD WATER FOR MILK PARLOR	1,2
2	1	ASSE 1013	RPBP	1"	12	13	MECHANICAL ROOM # 142	HOT WATER FOR MILK PARLOR	1
3	1	ASSE 1013	RPBP	1/2"	5	17	MECHANICAL ROOM # 142	HOT WATER ON CHEMICAL PUMP FOR MILK TANK	1,2
4	1	ASSE 1013	RPBP	1/2"	5	17	MECHANICAL ROOM # 142	COLD WATER TO CHEMICAL PUMP FOR MILK TANK	1,2
5	1	ASSE 1013	RPBP	1/2"	5	17	MECHANICAL ROOM # 142	HOT WATER TO CHEMICAL PUMP FOR MILK TANK	1,2
6	1	ASSE 1013	RPBP	1/2"	5	17	MECHANICAL ROOM # 142	COLD WATER TO CHEMICAL PUMP FOR MILK TANK	1,2
7	2	ASSE 1012	CV	1/2"	3	10	CONCESSIONS	COLD WATER ON ICEMAKER	
8	4	ASSE 1022	DC	1/2"	3	10	CONCESSIONS	COLD WATER ON SODA MACHINES	
9	150	ASSE 1011	VB	3/4"	6	11	HOSE BIBBS THROUGH-OUT BUILDING	HOSE BIBBS	
10	1	ASSE 1013	RPBP	3/4"	6	13	MECHANICAL ROOM # 142	HOT WATER TO CHEMICAL PUMP FOR VAT	1
11	1	ASSE1013	RPBP	3/4"	6	13	MECHANICAL ROOM # 142	COLD WATER TO CHEMICAL PUMP FOR VAT	1

REMARKS:  
1. BASED ON WATTS 919 QTS SERIES.  
2. REUSE EXISTING BACKFLOW DEVICE.

4 CROSS CONNECTION CONTROL SCHEDULE  
SCALE: NONE

CIRCULATING PUMP SCHEDULE										
CP #	LOCATION	SERVES	TYPE	CAPACITY (GPM)	DISCHARGE HEAD (FEET)	ELECTRICAL				REMARKS
						HP	RPM	VOLT	PH	
1	WATER ROOM # 128	HOT WATER SYSTEM	INLINE CENTRIF	4	11	1/6	3000	115	1	1,2,3
2	MECHANICAL ROOM # 115	HOT WATER SYSTEM	INLINE CENTRIF	4	11	1/6	3000	115	1	1,2,3

REMARKS:  
1. BASED ON B & G NBF - 18S  
2. PUMP TO HAVE ALL BRONZE CONSTRUCTION SUITABLE FOR DOMESTIC WATER SERVICE.  
3. PUMP SELECTION BASED ON B & G SERIES BRONZE FOX CIRCULATOR.

5 CIRCULATING PUMP SCHEDULE  
SCALE: NONE

SUMP PUMP SCHEDULE											
SP-1 #	MODEL	LOCATION	SERVES	SUMP SIZE	CAPACITY (GPM)	DISCHARGE HEAD (FEET)	ELECTRICAL				REMARKS
							HP	RPM	VOLT	PH	
1	WEIL 1413	MECHANICAL ROOM # 115	ELEVATOR	30" x 48"	50	21	.75	1750	208	3	1

REMARKS:  
1. BASED ON WEIL SERIES 1413 SUBMERSIBLE 2" SUMP PUMP

6 SUMP PUMP SCHEDULE  
SCALE: NONE

INTERIOR GREASE INTERCEPTORS SIZES & FLOW RATINGS PER WISCONSIN PLUMBING CODE AND INDUSTRY STANDARDS.

1. FIXTURES CONNECTED TO GREASE INTERCEPTOR SERVING CONCESSIONS BUILDING 1 AREA-A.

FIXTURE	DFU	QUANTITY	TOTAL DFU'S
FS-1 (4" Floor Sink)	4	1	4
MOP SINK	3	1	3
			7 (TOTAL)

2. FLOW RATE OF ALL FIXTURES = TOTAL DFU'S x 1 GPM PER FIXTURE UNIT  
= 7 x 1 GPM PER DFU (INTERMEDIATE FLOW PER CODE SPS 382.30 (3)(a))  
= 7 GPM

3. MIN. GREASE HOLDING CAPACITY (LBS) OF INTERCEPTOR = TOTAL FIXTURE FLOW RATE x 2  
= 7 GPM x 2  
= 14 LBS

Half-Full flow rate on 4" 1/4"/ft= 57 gpm

SCHIER (1) GB-250  
100 GPM  
250 GALLONS  
1,076 lbs GREASE CAPACITY

7 GREASE SEPERATOR SIZING CALCULATIONS  
SCALE: NONE

INTERIOR GREASE INTERCEPTORS SIZES & FLOW RATINGS PER WISCONSIN PLUMBING CODE AND INDUSTRY STANDARDS.

1. FIXTURES CONNECTED TO GREASE INTERCEPTOR SERVING CONCESSIONS BUILDING 2 AREA-A.

FIXTURE	DFU	QUANTITY	TOTAL DFU'S
FS-1 (4" Floor Sink)	4	1	4
MOP SINK	3	1	3
			7 (TOTAL)

2. FLOW RATE OF ALL FIXTURES = TOTAL DFU'S x 1 GPM PER FIXTURE UNIT  
= 7 x 1 GPM PER DFU (INTERMEDIATE FLOW PER CODE SPS 382.30 (3)(a))  
= 7 GPM

3. MIN. GREASE HOLDING CAPACITY (LBS) OF INTERCEPTOR = TOTAL FIXTURE FLOW RATE x 2  
= 7 GPM x 2  
= 14 LBS

Half-Full flow rate on 4" 1/4"/ft= 57 gpm

SCHIER (1) GB-250  
100 GPM  
250 GALLONS  
1,076 lbs GREASE CAPACITY

NEW WATER DISTRIBUTION & WASTE FIXTURE UNIT DESIGN																
GENERAL	IDENTITY	NO. OF FIXTURES	WATER						WASTE		FIXTURE CONNECTIONS					
			SUPPLY UNITS EACH			TOTAL WSFU			DFU	TOTAL DFU	WATER		WASTE			
			HOT	COLD	TOTAL	HOT	COLD	TOTAL			HOT	COLD	DRAIN	VENT		
	WATER CLOSET (WC-1)	46	-	6.5	6.5	-	299	299	6	276	-	-	1"	4"	2"	
	URINAL (UR-1)	8	-	2	2	-	16	16	2	16	-	-	1/2"	1-1/2"	1-1/2"	
	LAVATORY (L-1)	36	.5	.5	1	18	18	36	1	36	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	
	SINK (S-1)	7	2	2	3	14	14	21	2	14	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	
	MOP BASIN (MB-1)	6	2	2	3	12	12	18	3	18	1/2"	1/2"	2"	2"	1-1/2"	
	SHOWER (SH-1)	12	2	2	3	24	24	36	2	24	1/2"	1/2"	2"	2"	1-1/2"	
	FLOOR DRAIN (FD-1)	28	-	-	-	-	-	-	4	112	-	-	-	-	4	
	FLOOR DRAIN (FD-2)	12	-	-	-	-	-	-	2	24	-	-	-	-	2	
	FLOOR DRAIN (FD-3)	81	-	-	-	-	-	-	4	324	-	-	-	-	4	
	FLOOR DRAIN (FD-4)	27	-	-	-	-	-	-	4	108	-	-	-	-	4	
	FLOOR SINK (FS-1)	8	-	-	-	-	-	-	4	32	-	-	-	-	4	
	FLOOR SINK (FS-2)	1	-	-	-	-	-	-	4	4	-	-	-	-	4	
	TRENCH DRAIN (TD-1)	16	-	-	-	-	-	-	4	64	-	-	-	-	4	
	HUB DRAIN (HD-1)	5	-	-	-	-	-	-	3	18	-	-	-	-	3	
	HOSE STATION (HS-1)	81	-	4	4	-	324	324	-	-	-	-	3/4"	-	-	
	WASH BAY (WB-1)	10	-	20	20	-	200	200	-	-	-	-	1"	-	-	
						68			907		950		1070			
						WSFU			WSFU		WSFU		DFU			

1 NEW FIXTURE UNIT SCHEDULE  
SCALE: NONE

WATER SOFTENER SCHEDULE												
WS #	MODEL	LOCATION	RESIN VESSELS (EACH)				RESIN CAPACITY (CF)	TANK		ELECTRICAL		REMARKS
			QTY	GRANS REMOVAL	SERVICE FLOW GPM 15 PSI	SERVICE FLOW GPM 25 PSI		RESINE TANK SIZE	BRINE TANK SIZE	VOLTS	PH	
1	TNT-300-24	WATER ROOM # 128	1	280,000	120	170	10	24" dia x 72"	24" dia. x 50"	120	1	1
2	TNT-300-24	MECHANICAL ROOM # 115	1	280,000	120	170	10	24" dia x 72"	24" dia. x 50"	120	1	1

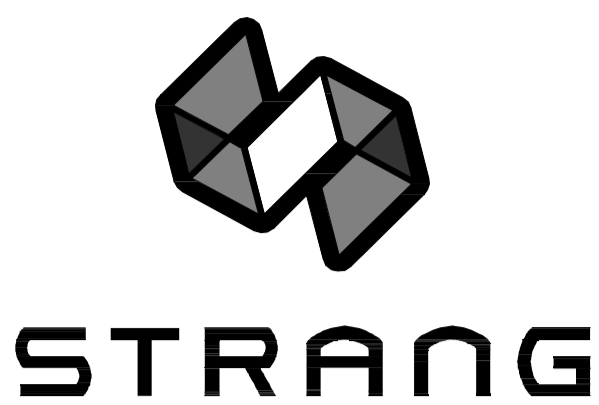
REMARKS:  
1. BASED ON HELLENBRAND TWIN ALTERNATING UNIT (TNT-300-24)

2 AREA "A/B" WATER SOFTENER SCHEDULE  
SCALE: NONE

WATER HEATER SCHEDULE															
WH #	MODEL	LOCATION	ELECTRICAL			MBH INPUT	FUEL	EWT	LWT	STORAGE CAPACITY (GAL)	FLOW RECOVERY (GPH) @ 70' F RISE	TANK SIZE (DIA" x H")	FLUE VENT (IN.)	COMB. AIR (IN.)	REMARKS
			KW	VOLTS	PH										
1	BTH-250	WATER ROOM # 128	-	120	1	250	NG	50' F	120' F	100	411	27.75" x 75"	4	4	1
2	EXISTING UNIT	MECHANICAL ROOM # 115	-	120	1	76	NG	50' F	120' F	50	90	22" x 70"	3	-	7
3	DEL-20	WATER ROOM # 138	2,500	208	1	-	ELECT	50' F	120' F	20	14	21.75" x 22.25"	-	-	2
4	DEL-20	WATER ROOM # 148	2,500	208	1	-	ELECT	50' F	120' F	20	14	21.75" x 22.25"	-	-	2
5	EXISTING RUUD	MECHANICAL ROOM # 142	-	120	1	36	NG	50' F	120' F	40	-	-	-	-	4
6	EXISTING UNIT	MECHANICAL ROOM # 142	-	-	-	-	NG	50' F	180' F	TBV	TBV	TBV	-	-	4
7	EXISTING UNIT	MECHANICAL ROOM # 142	-	-	-	-	NG	50' F	180' F	TBV	TBV	TBV	-	-	4

REMARKS:  
1. BASED ON A.O. SMITH BTH SERIES  
2. BASED ON A.O. SMITH DEL SERIES  
3. BASED ON A.O. SMITH BTX SERIES  
4. REUSE EXISTING WATER HEATERS FROM EXISTING MILK HOUSE PARLOR AREA  
5. PROVIDE AMTROL ST-12 (ASME RATED) EXPANSION TANK ON WATER HEATERS WH-1, WH-2 UNITS, AND ONE ON WH-6 & WH-7 UNIT COMBINED  
6. PROVIDE AMTROL ST-5 (ASME RATED) EXPANSION TANK ON WATER HEATERS WH-5 UNIT.  
7. REUSE EXISTING 50 GAL GRAVITY VENT GAS WATER HEATER FROM EXISTING SHOWER BUILDING.

3 WATER HEATER SCHEDULE  
SCALE: NONE



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4995  
T/ 608 278 9200  
F/ 608 276 9204

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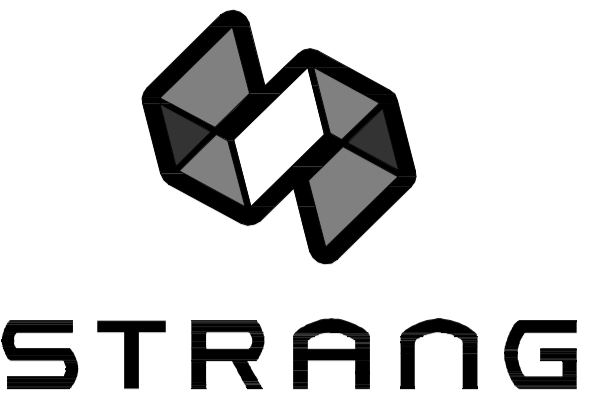
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE

PLUMBING SCHEDULES AREAS A-D

SHEET NO.

P501



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
6411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 278 9200  
F/ 608 278 9204

SAND TRAP SCHEDULE								
SD #	MODEL	LOCATION	RESIN VESSELS (EACH)			TANK		REMARKS
			QTY	CONNECTION SIZE	MAX FLOW GPM	UNIT SIZE	STORAGE	
1	8811-50	WORK AREA # 111	1	4"	50	24"width x 48" long	120	1

REMARKS:  
1. BASED ON JR SMITH 8811 SERIES

6  
P502 AREA "E"  
SAND TRAP SCHEDULE (SD-1)  
SCALE: NONE

WATER SOFTENER SCHEDULE												
WS #	MODEL	LOCATION	RESIN VESSELS (EACH)				TANK		ELECTRICAL		REMARKS	
			QTY	GRAINS REMOVAL	SERVICE FLOW GPM 15 PSI	SERVICE FLOW GPM 25 PSI	RESIN CAPACITY (CF)	RESINE TANK SIZE	BRINE TANK SIZE	VOLTS		PH
3	H-125-128	MECHANICAL ROOM # 159	1	112,000	25	34	4	16" dia x 65"	24" dia. x 41"	120	1	1

REMARKS:  
1. BASED ON HELLENBRAND TWIN ALTERNATING UNIT (H-125-128)

7  
P502 AREA "E"  
WATER SOFTENER SCHEDULE  
SCALE: NONE

NEW WATER DISTRIBUTION & WASTE FIXTURE UNIT DESIGN												
GENERAL	IDENTITY	NO. OF FIXTURES TOTAL	WATER			WASTE		FIXTURE CONNECTIONS				
			SUPPLY UNITS EA.	TOTAL	TOTAL WSFU	FIXTURE UNIT VALUE	TOTAL DRAIN FIXTURE UNITS	CW	HW	VENT	WASTE DRAIN	
	SINK (S-1)	1	1	1.5	1	1.5	1	1	1/2"	1/2"	1-1/2"	1-1/2"
	SINK (S-2)	2	2	3	4	6	3	6	1/2"	1/2"	1-1/2"	1-1/2"
	WOP BASIN (WB-1)	1	2	3	2	3	3	3	1/2"	1/2"	1-1/2"	2"
	LABATORY (L-1)	1	.5	.5	1	.5	1	1	1/2"	1/2"	1-1/2"	1-1/2"
	WATER CLOSETS (WC-1)	1	3	3	3	3	3	3	3/4"	-	2"	4"
	FLOOR DRAIN (FD-1)	2	-	-	-	-	4	8	-	-	2"	4"
	FLOOR DRAIN (FD-2)	1	-	-	-	-	2	2	-	-	1-1/2"	2"
	FLOOR DRAIN (FD-3)	1	-	-	-	-	4	4	-	-	2"	4"
	TRENCH DRAIN (TD-1)	3	-	-	-	-	4	20	-	-	2"	4"
	HOSE BIBB (HB-1)	2	3	3	6	6	-	-	-	-	-	-
	HOSE BIBB (HB-2)	1	4	4	4	4	-	-	-	-	-	-
	HOSE BIBB (HB-3)	1	4	4	4	4	-	-	-	-	-	-
			7.5	24.5	28.5		48					
			WFSU	WFSU	WFSU		DFU					

1  
P502 AREA "E"  
NEW FIXTURE UNIT SCHEDULE  
SCALE: NONE

EMERGENCY FIXTURE TEMPERING VALVE SCHEDULE									
TAG	MANUFACTURER	MODEL	SERVICE	EWT	LWT	MINIMUM FLOW (GPM)	MAXIMUM FLOW (GPM)	MAXIMUM PRESSURE DROP (PSI)	REMARKS
TMV-1	BRADLEY	S19-2000	60-100° F EMERGENCY TEMPID WATER	120° F	70° F	2	4	10	1,2,3

REMARKS:  
1. VALVE SHALL FAIL TO COLD.  
2. PROVIDE WITH OUTLET TEMPERATURE GAUGE AND BALL VALVE, INLET CHECK STOPS, STRAINERS, AND UNIONS.  
3. FULL CAPACITY COLD WATER BYPASS

2  
P502 AREA "E"  
EMERGENCY FIXTURE TEMPERING VALVE SCHEDULE  
SCALE: NONE

WATER HEATER SCHEDULE													
WH #	QTY	MODEL	LOCATION	ELECTRICAL			EWT	LWT	STORAGE CAPACITY (GALLON)	FLOW RECOVERY	TANK SIZE (DIA. x H") (WxDxH")	REMARKS	
				KW	VOLTS	PH							WATTS
8	1	DEL-20	MECHANICAL ROOM # 109	-	208	1	2,500	50 F	120 F	20	14 GPH	22"x 22"	1

REMARKS:  
1. BASED ON AO SMITH DEL-20

3  
P502 AREA "E"  
WATER HEATER SCHEDULE  
SCALE: NONE

CIRCULATING PUMP SCHEDULE										
CP #	LOCATION	SERVES	TYPE	CAPACITY (GPM)	DISCHARGE HEAD (FEET)	MOTOR				REMARKS
						HP	RPM	VOLT	PH.	
CP-3	MECHANICAL ROOM # 109	DOMESTIC HOT WATER	INLINE CENTRF.	3	8	1/8	2800	115	1	1,2,3

REMARKS:  
1. PUMP TO HAVE ALL BRONZE CONSTRUCTION SUITABLE FOR DOMESTIC WATER SERVICE  
2. PUMP SELECTION BASED ON B&G SERIES BRONZE FOX CIRCULATOR  
3. B & G NBF - 9U/LW

4  
P502 AREA "E"  
PUMP SCHEDULE  
SCALE: NONE

OIL INTERCEPTOR SCHEDULE							
OI #	MODEL	LOCATION	RESIN VESSELS (EACH)		TANK		REMARKS
			QTY	CONNECTION SIZE	MAX FLOW GPM	UNIT SIZE	
1	8599-75-100	WORK AREA # 103	1	4"	75	45"width x 50" long	100 GAL. 1,2

REMARKS:  
1. BASED ON JR SMITH 8599 SERIES  
2. PROVIDE HIGH LEVEL LOCAL ALARM

5  
P502 AREA "E"  
OIL SEPERATOR SCHEDULE  
SCALE: NONE

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BID # 313072

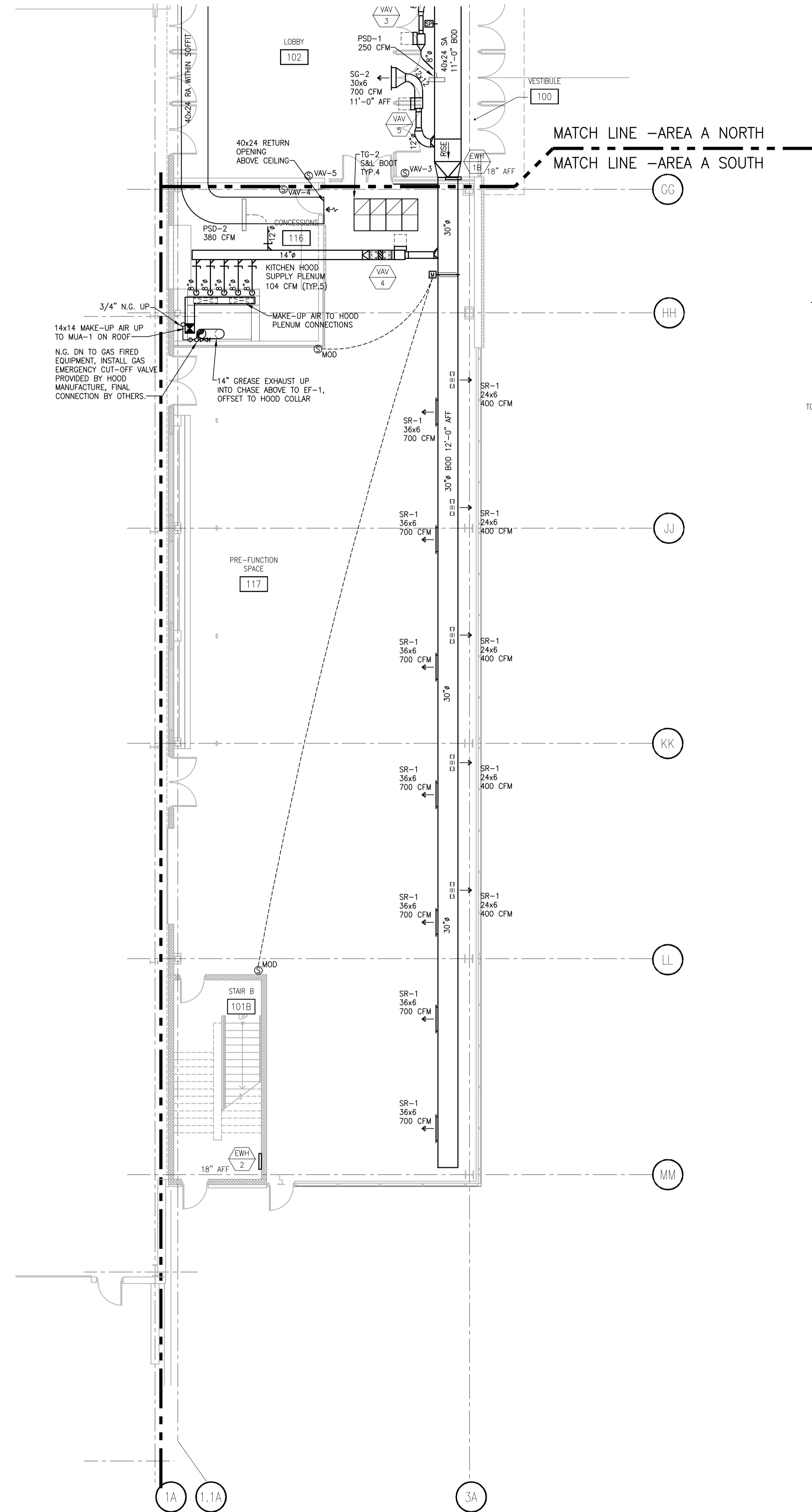
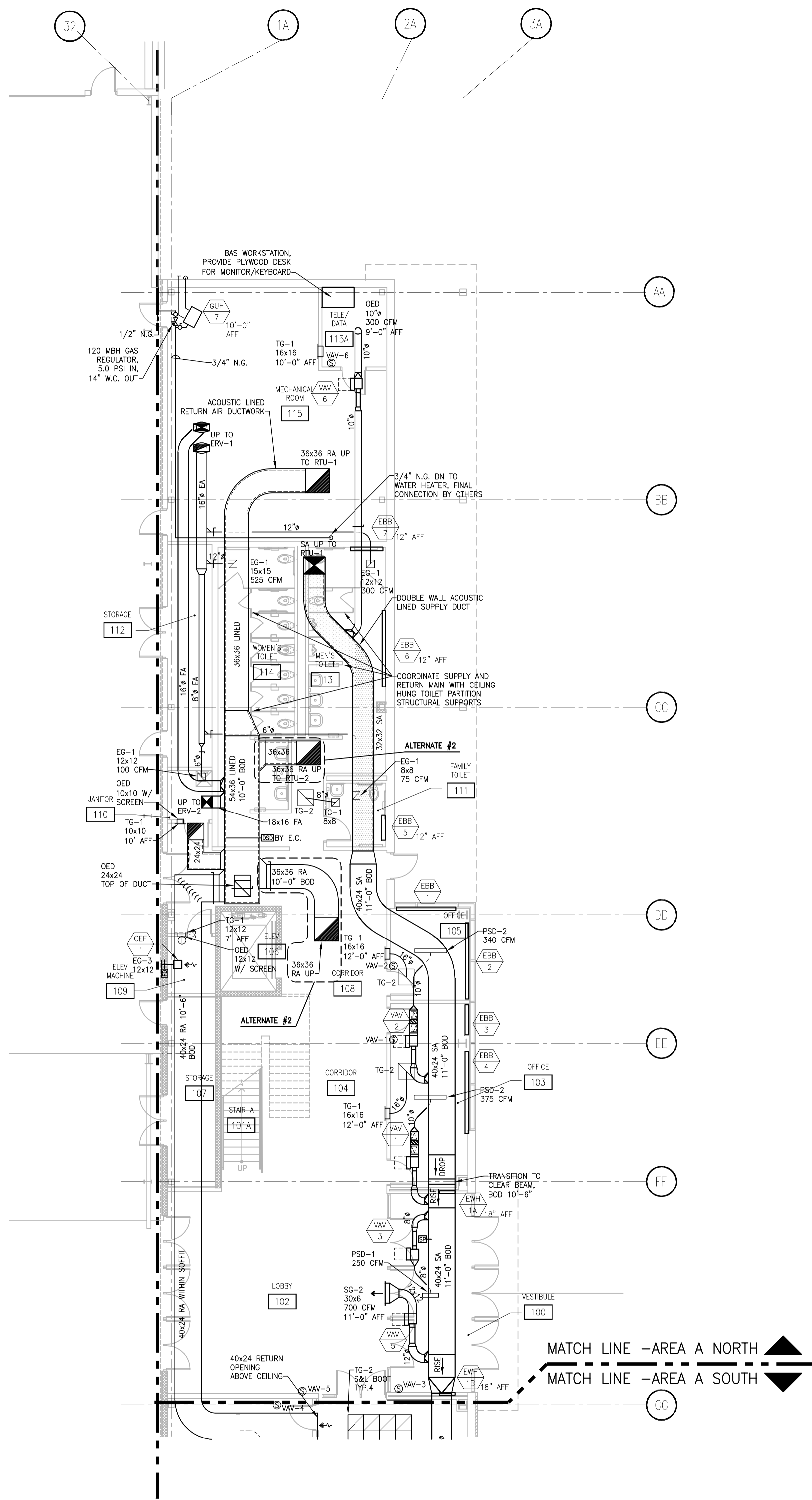
1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE

PLUMBING  
SCHEDULES  
AREA E

SHEET NO.

P502



**HVAC LEGEND**

HVAC SYMBOL LEGEND	PIPING SYMBOL LEGEND	ABBREVIATIONS
Double Wall Ductwork	Pressure Reducing Valve	AD Access Door
Acoustic Lined Ductwork	Piping - Top Take-Off	AFF Above Finished Floor
SA or OA Duct Drop	Piping - Bottom Take-Off	BDD Backdraft Damper
RA or EA Duct Riser	Ball Valve	BOD Bottom of Duct
RA or EA Duct Drop	Capped Pipe	BOF Bottom of Floor
RA or EA Duct Riser		CUH Cabinet Unit Heater
RA Plenum Sound/Light Boot		DSD Duct Smoke Detector
Electric Thermostat		EBB Electric Baseboard
DDC TEMPERATURE SENSOR		E.C. Electrical Contractor
CD Ceiling Diffuser		EF Exhaust Fan
PSD Plenum Slot Diffuser		EWH Electric Wall Heater
DSD Duct Smoke Detector		EXH Exhaust
MCD Motor Operated Damper		G.C. General Contractor
BD Balancing Damper		M.C. Mechanical Contractor
FD Fire Damper		NC Normally Closed
SP Static Pressure Sensor		NO Normally Open
EQUIPMENT TAG		OA Outside Air
		OED Open End Duct
		P.C. Plumbing Contractor
		RA Return Air
		SA Supply Air
		T.C.C. Temperature Control Contractor
		TCV Top of Duct
		TOP Top of Pipe
		UH Unit Heater
		VAV Variable Air Volume

**GENERAL NOTES**

THIS BUILDING UTILIZES A RETURN AIR PLENUM. ALL MATERIALS INSTALLED ABOVE CEILING SHALL BE RATED FOR PLENUM USE.

MOUNT ROOM TEMPERATURE SENSORS @ 60" AFF UNLESS NOTED OTHERWISE.

REVISIONS	DATE	BY
1	10-29-13	NJZ
2	10-29-13	BK

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PROJECT NO. 2013027\_02  
PROJECT TITLE ALLIANT ENERGY CENTER PAVILIONS BID # 313072

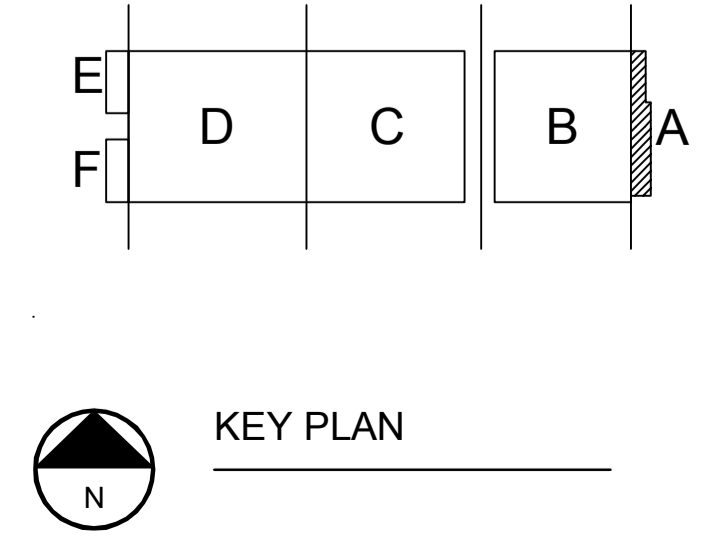
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MADISON, WISCONSIN 53713

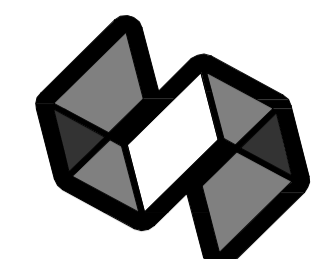
SHEET TITLE  
**FIRST FLOOR  
HVAC PLAN  
AREA A - BLD 1**

SHEET NO.  
**M201A**

**FIRST FLOOR HVAC PLAN - AREA A NORTH**  
SCALE: 1/8" = 1'-0"

**FIRST FLOOR HVAC PLAN - AREA A SOUTH**  
SCALE: 1/8" = 1'-0"

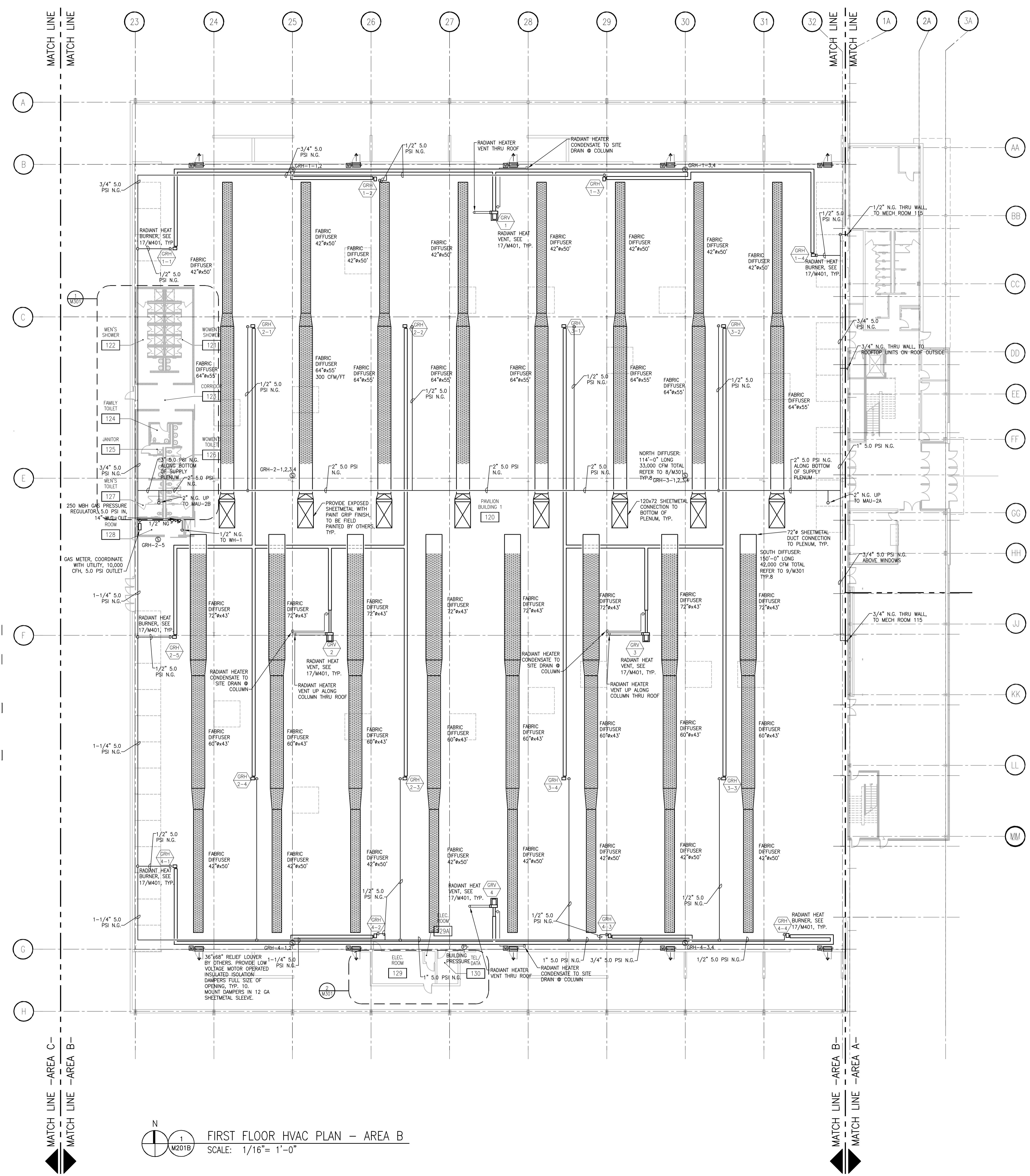




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**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

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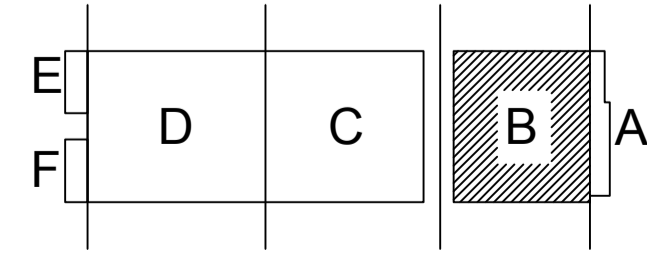
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**FIRST FLOOR  
HVAC PLAN  
AREA B - BLD 1**

SHEET NO.  
**M201B**

**GENERAL NOTES**

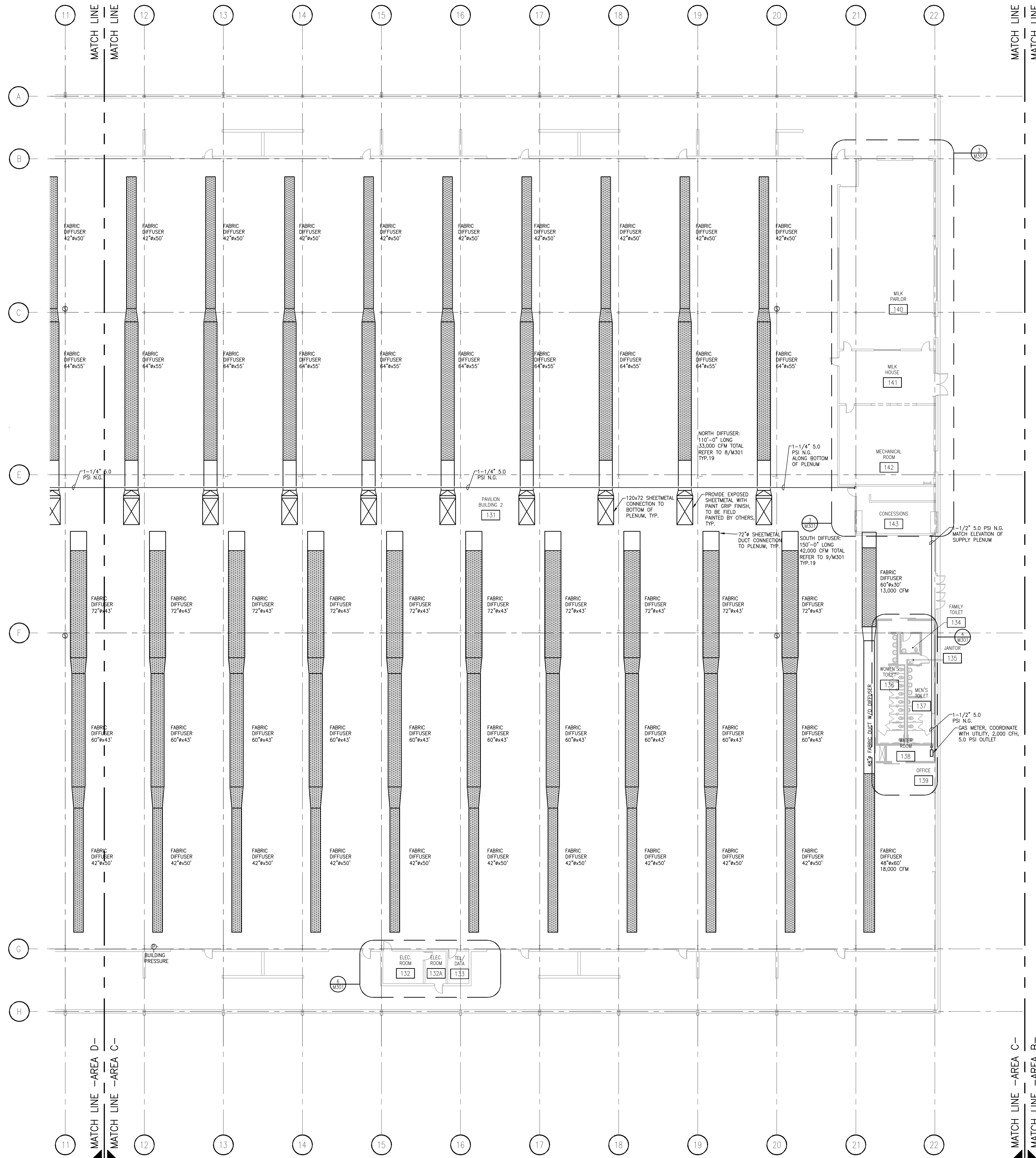
MOUNT ZONE TEMPERATURE SENSORS @ 72" AFF  
UNLESS NOTED OTHERWISE.

**FIRST FLOOR HVAC PLAN - AREA B**  
SCALE: 1/16" = 1'-0"



KEY PLAN

CARLOS RUZ, 2013.12.14 01:40 PM K:\2013027\_02 - ALLIANT ENERGY CENTER LIFESTOCK & EXHIBITION SPACE EXPANSION\2013027\_02 - ALLIANT ENERGY CENTER LIFESTOCK AND EXHIBITION HALL\DRAWINGS\2013027\_02.M201B.DWG



**GENERAL NOTES**

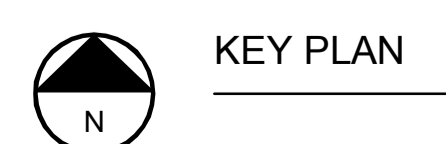
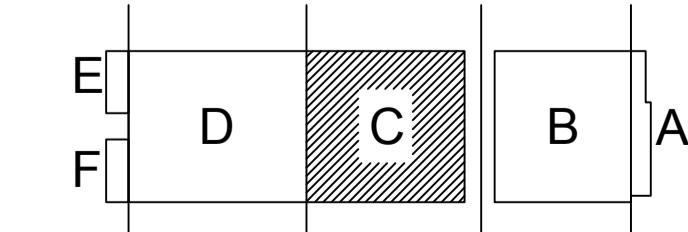
MOUNT ZONE TEMPERATURE SENSORS @ 72" AFF UNLESS NOTED OTHERWISE.

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COPYRIGHT	2013
FILE NAME	2013027_02-M201C.DWG
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

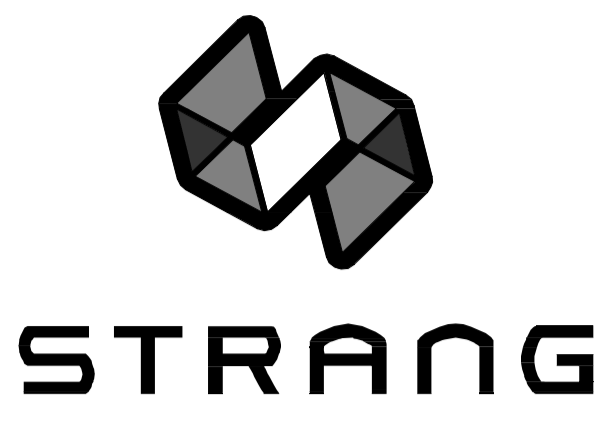


**FIRST FLOOR HVAC PLAN - AREA C**  
SCALE: 1/16" = 1'-0"

SHEET TITLE  
**FIRST FLOOR  
HVAC PLAN  
AREA C - BLD 2**

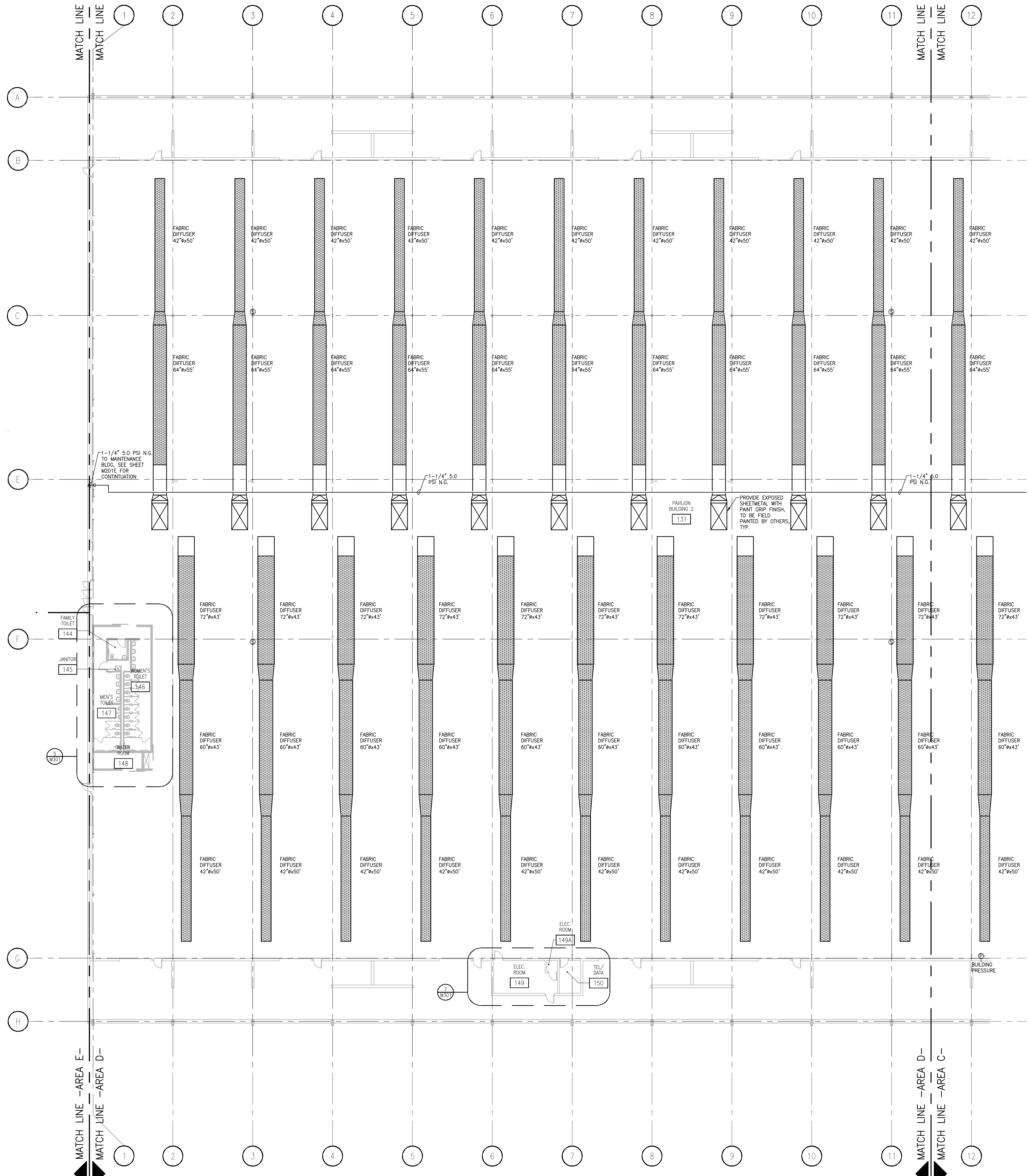
SHEET NO.  
**M201C**

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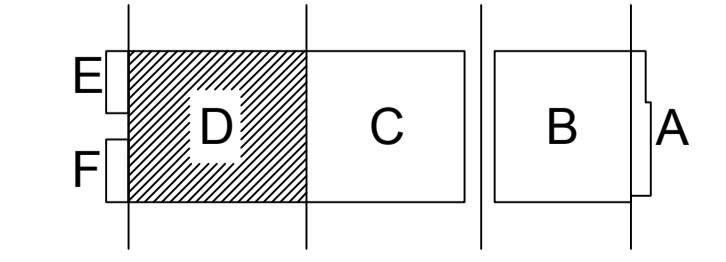
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**GENERAL NOTES**

MOUNT ZONE TEMPERATURE SENSORS @ 72" AFF  
UNLESS NOTED OTHERWISE.

**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

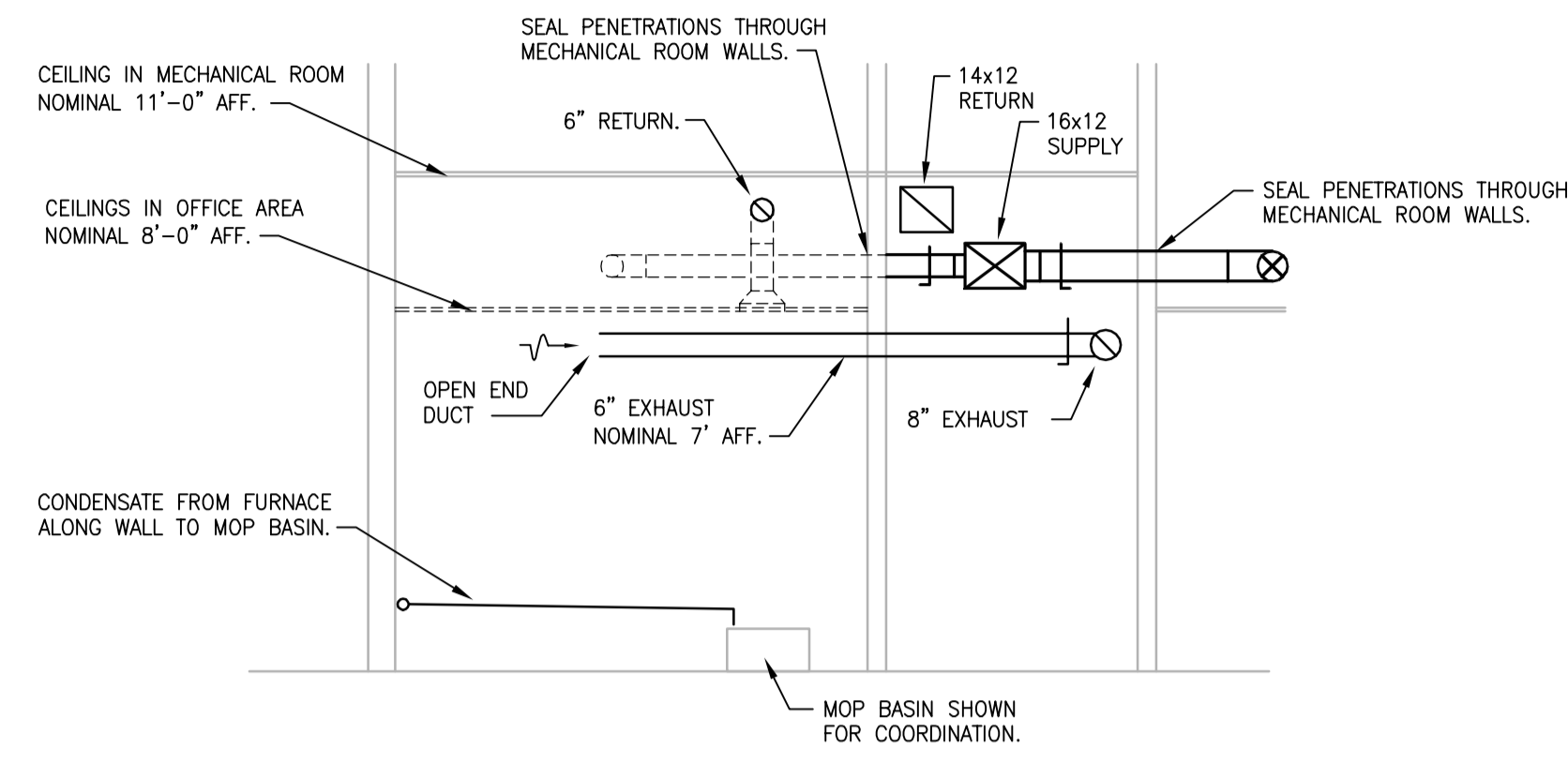


**FIRST FLOOR HVAC PLAN - AREA D**  
SCALE: 1/16" = 1'-0"

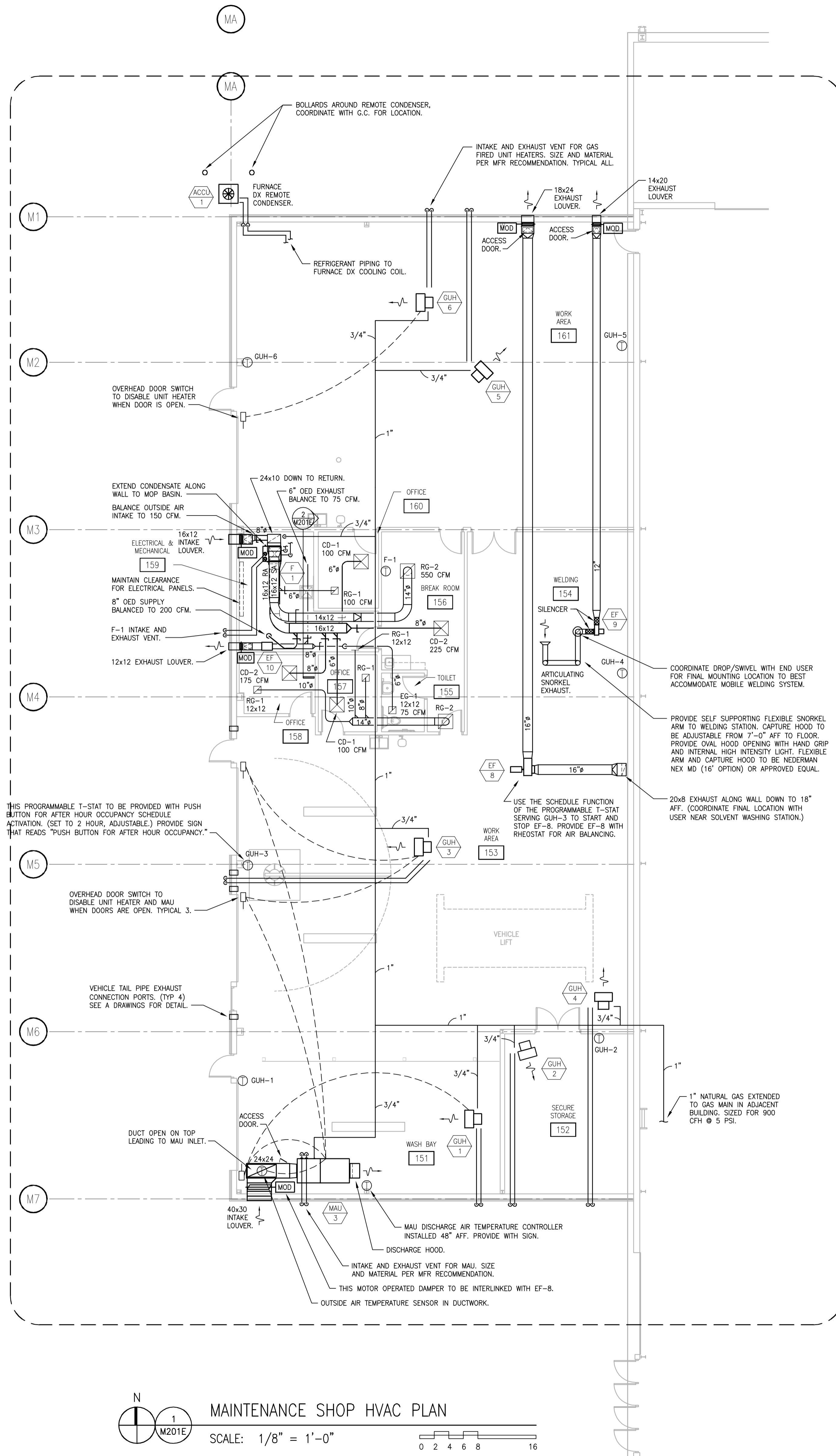
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**FIRST FLOOR  
HVAC PLAN  
AREA D - BLD 2**

SHEET NO.  
**M201D**

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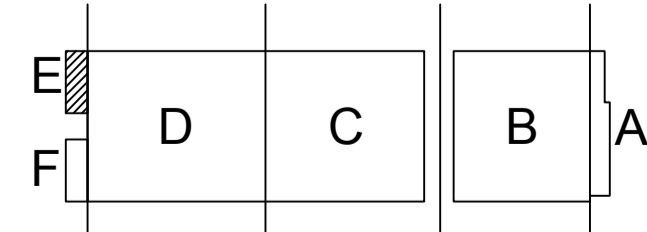


2  
M201E  
MECHANICAL ROOM SECTION  
SCALE: 1/4" = 1'-0"



DEDUCT ALTERNATE #5  
OMIT ALL HVAC WORK IN THIS AREA.

N  
1  
M201E  
MAINTENANCE SHOP HVAC PLAN  
SCALE: 1/8" = 1'-0"



N  
KEY PLAN

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FILE NAME	2013027_02.M201E.DWG
REVISIONS	

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CHECKED	BK
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PROJECT NO.	2013027_02
PROJECT TITLE	

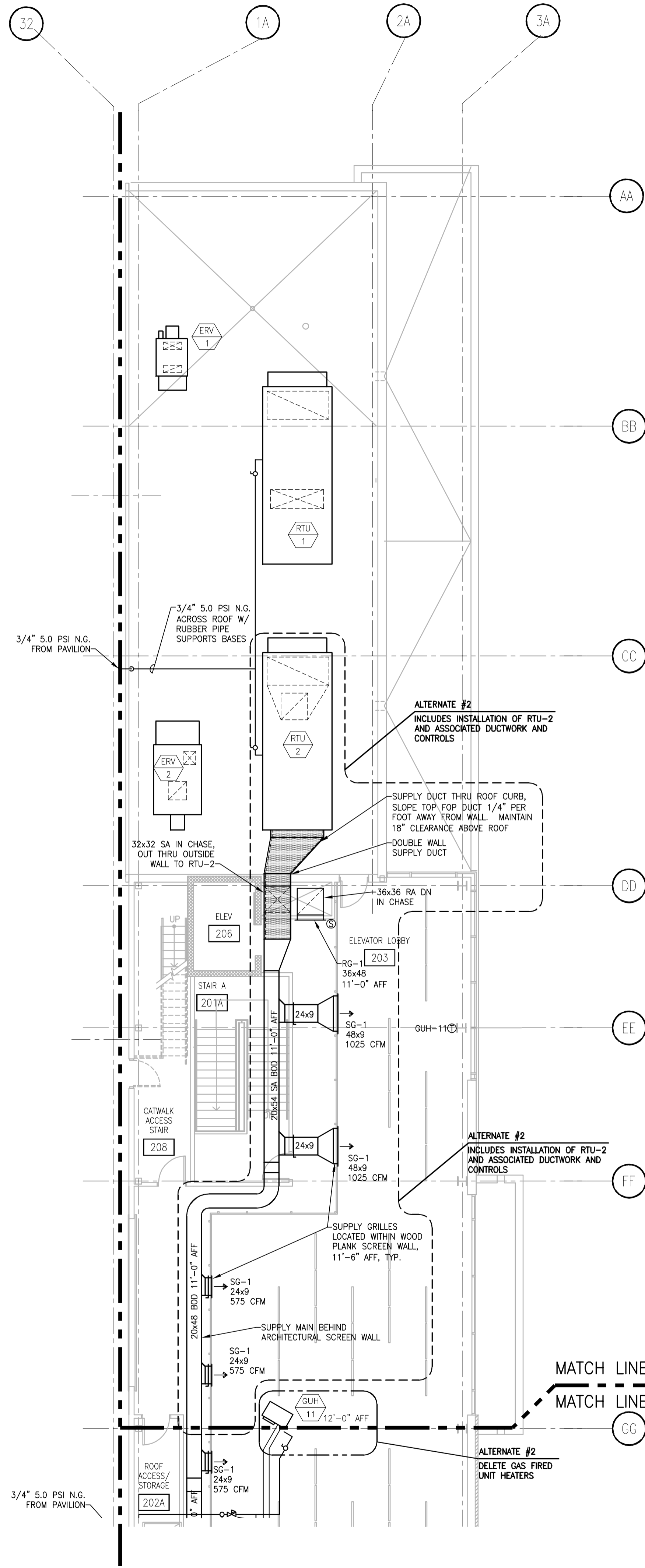
ALLIANT ENERGY  
CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

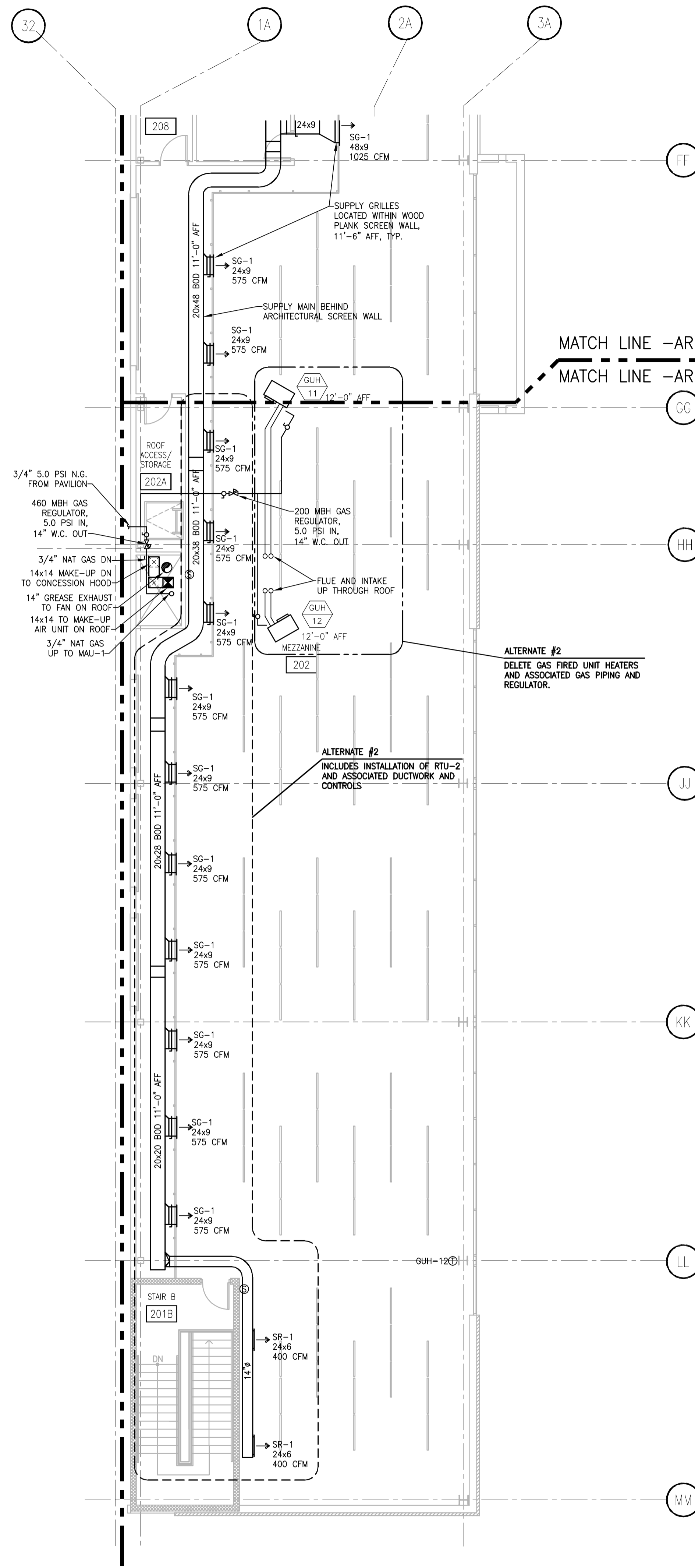
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MAINTENANCE SHOP  
HVAC PLAN

SHEET NO.  
M201E

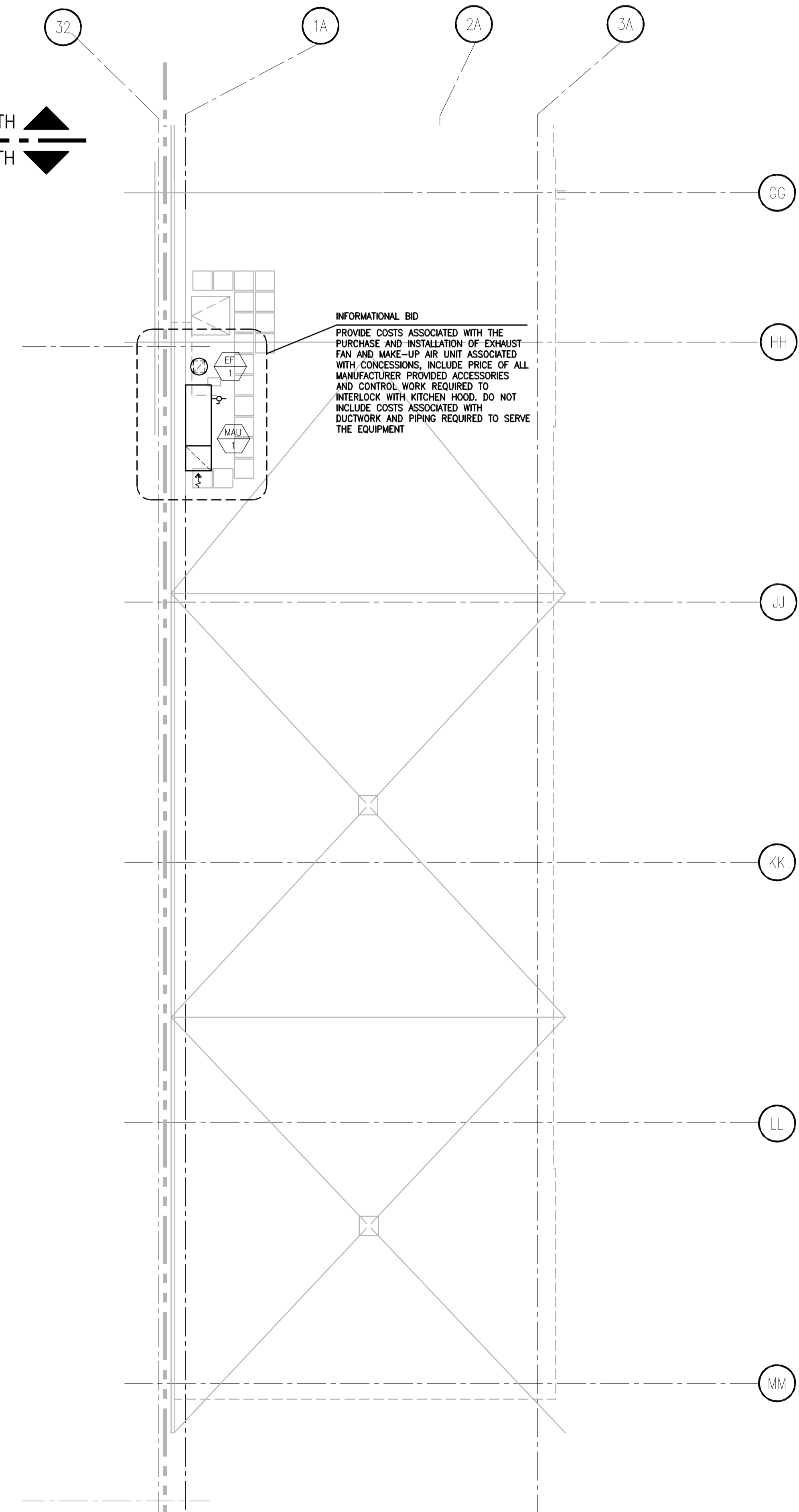
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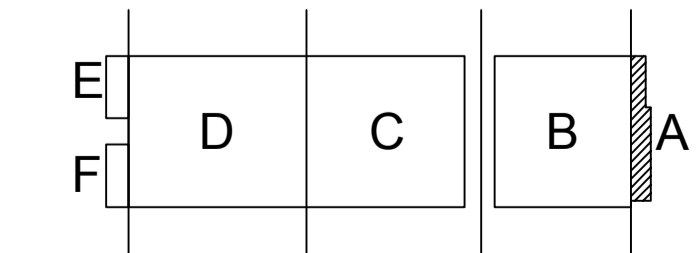
MEZZANINE HVAC FLOOR PLAN - AREA A - NORTH  
SCALE: 1/8" = 1'-0"



MEZZANINE HVAC FLOOR PLAN - AREA A - SOUTH  
SCALE: 1/8" = 1'-0"



PARTIAL HVAC ROOF PLAN - AREA A  
SCALE: 1/8" = 1'-0"



KEY PLAN

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COPYRIGHT	2013
FILE NAME	2013027_02.M202A.DWG
REVISIONS	

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DATE	10-29-13
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PROJECT TITLE	

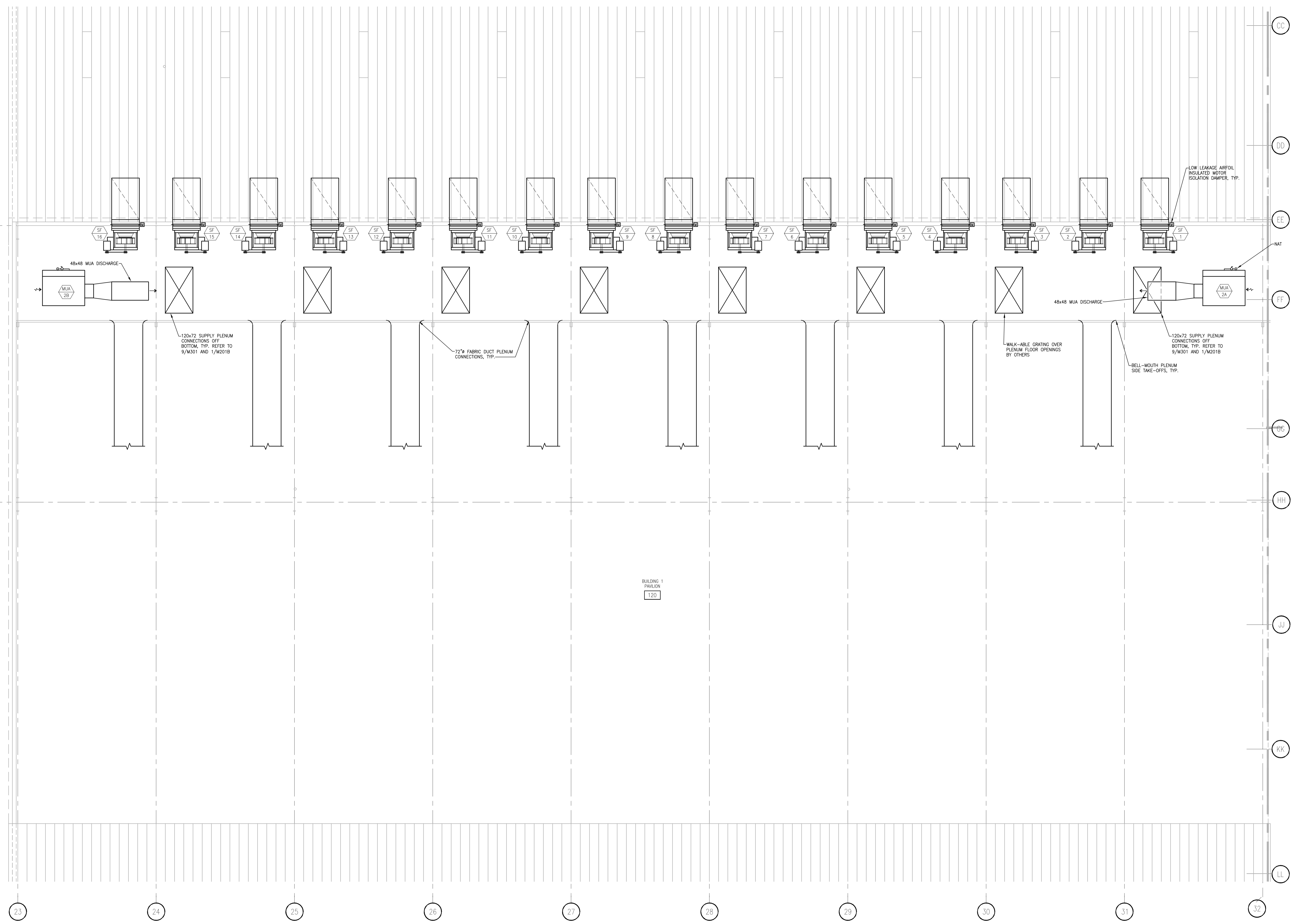
ALLIANT ENERGY CENTER PAVILIONS  
BLD # 313072

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MADISON, WISCONSIN 53713

SHEET TITLE  
MEZZANINE HVAC PLAN  
AREA A - BLD 1

SHEET NO.  
M202A





BUILDING 1  
PAVILION  
120

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FILE NAME	2013027_02-M202B.DWG
REVISIONS	

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CHECKED	BK
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PROJECT TITLE	

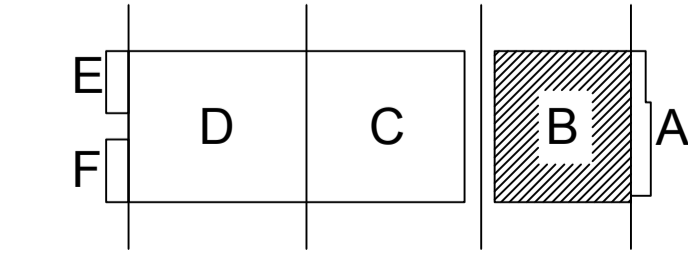
**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

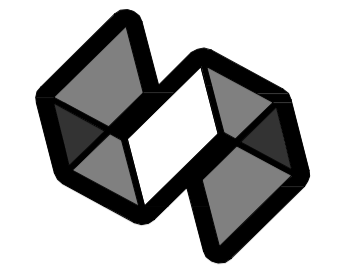
SHEET TITLE  
**MEZZANINE  
HVAC PLAN  
AREA B - BLD 1**

SHEET NO.  
**M202B**

**MEZZANINE PLAN - AREA B**  
SCALE: 1/8" = 1'-0"



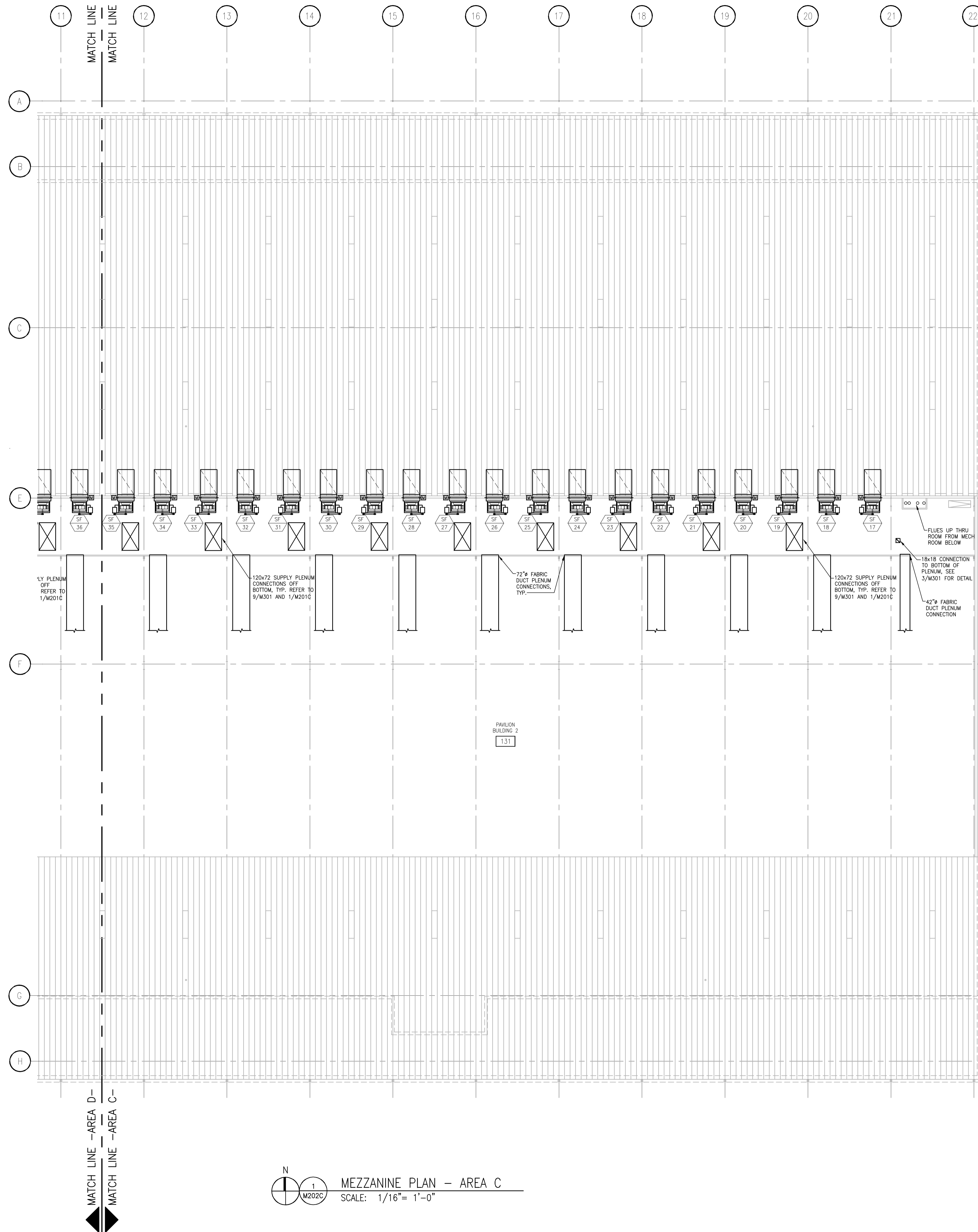
CARLOS RUIZ 2013-8 10:00 AM K:\2013027\_02-ALLIANT ENERGY CENTER PAVILIONS\313072\_02-M202B.DWG



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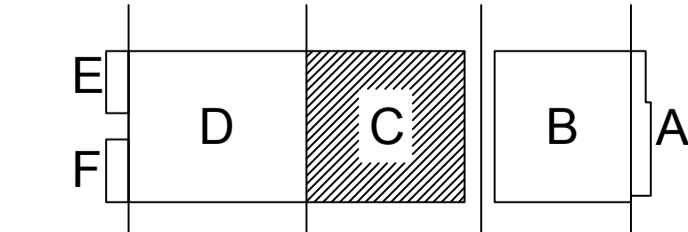


N  
1  
MEZZANINE PLAN - AREA C  
SCALE: 1/16" = 1'-0"

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FILE NAME	2013027_02-M202C.DWG
REVISIONS	
DRAWN	NJZ
CHECKED	RM
DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

ALLIANT ENERGY CENTER PAVILIONS  
 BID # 313072

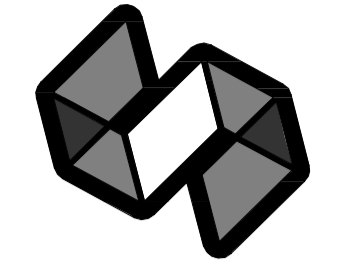
1919 ALLIANT ENERGY CENTER WAY  
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SHEET TITLE  
 MEZZANINE  
 HVAC PLAN  
 AREA C - BLD 2

SHEET NO.  
 M202C

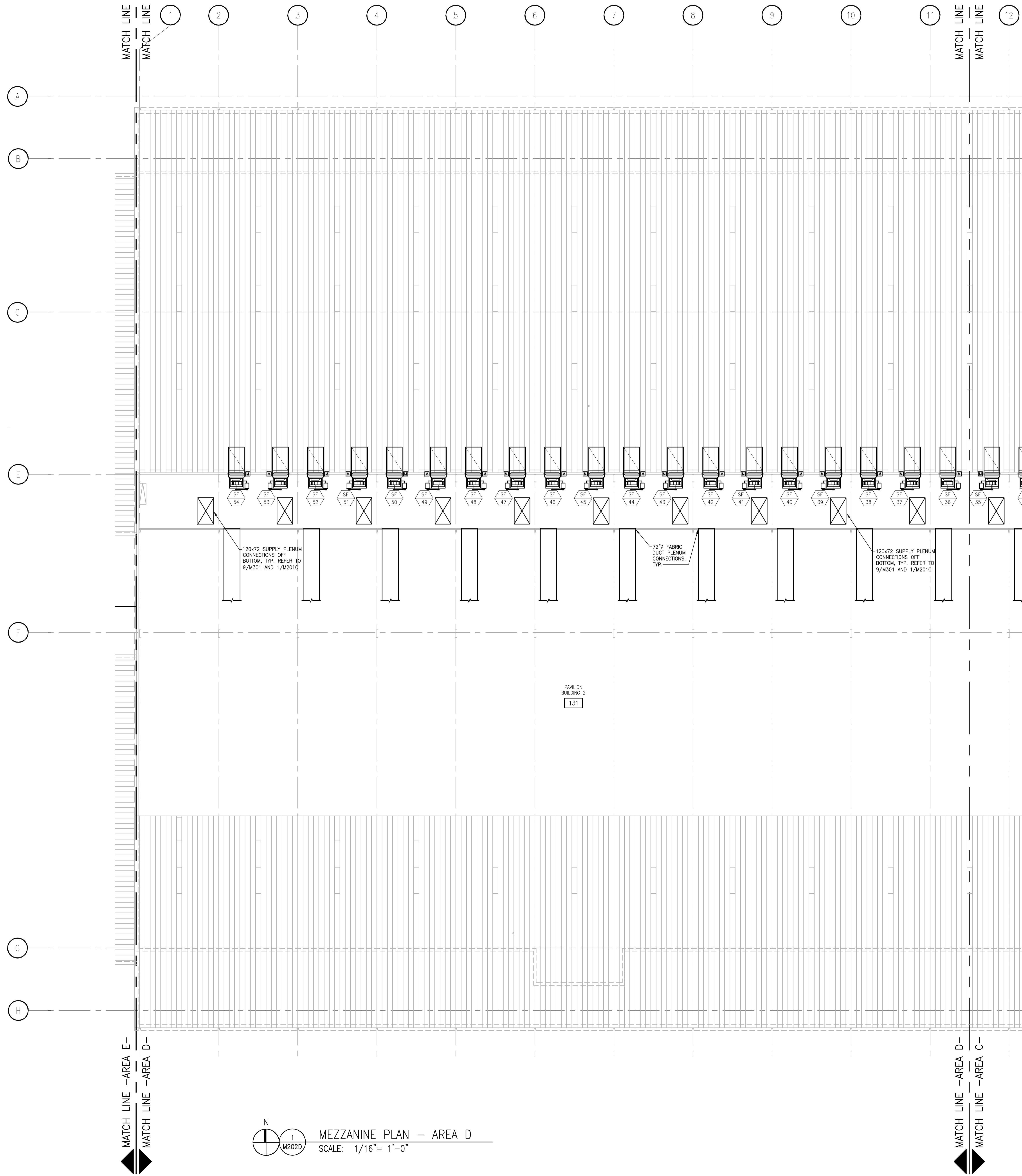
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120x72 SUPPLY PLENUM CONNECTIONS OFF BOTTOM, TYP. REFER TO 9/M301 AND 1/M201C

72" FABRIC DUCT PLENUM CONNECTIONS, TYP.

120x72 SUPPLY PLENUM CONNECTIONS OFF BOTTOM, TYP. REFER TO 9/M301 AND 1/M201C

PAVILION BUILDING 2  
1.31

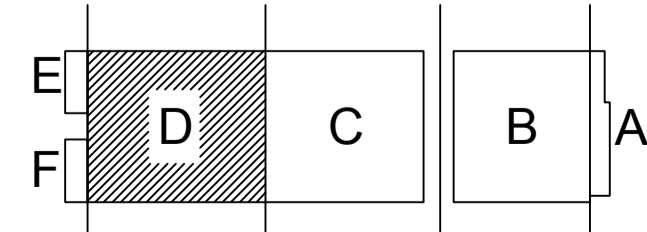
MEZZANINE PLAN - AREA D  
SCALE: 1/16" = 1'-0"

DRAWING SET	CD
COPYRIGHT	2013
FILE NAME	2013027_02-M202D.DWG

REVISIONS	
DRAWN	NJZ
CHECKED	RM
DATE	10-29-13
PROJECT NO.	2013027_02

PROJECT TITLE  
**ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072**

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713



KEY PLAN

SHEET TITLE  
**MEZZANINE  
HVAC PLAN  
AREA D - BLD 2**

SHEET NO.  
**M202D**

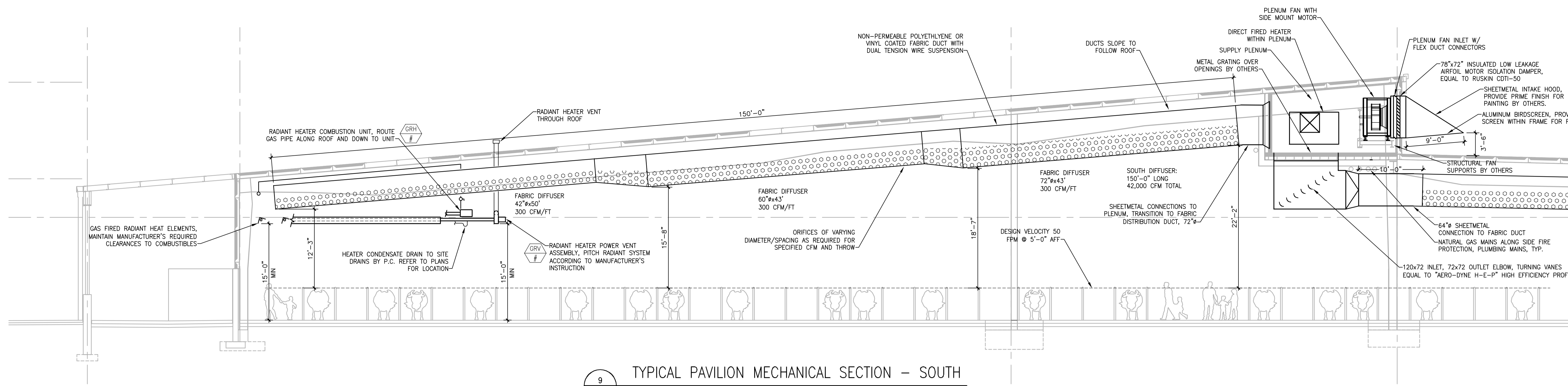
CARLOS RUIZ 2013-8 10:12 AM K:\2013027\_02-ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027\_02-M202D.DWG

**GENERAL NOTES**

MOUNT ZONE TEMPERATURE SENSORS @ 60" AFF UNLESS NOTED OTHERWISE.

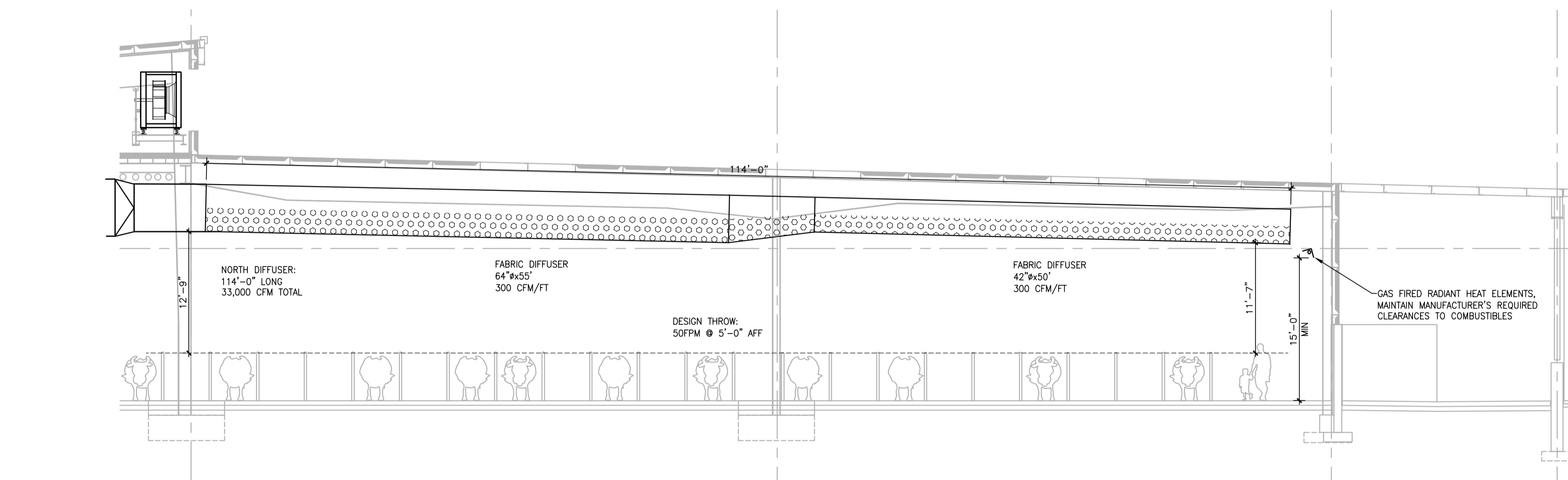
**PLAN NOTES**

INFORMATIONAL BID: PROVIDE COSTS ASSOCIATED WITH THE PURCHASE AND INSTALLATION OF EXHAUST FAN (EF-4) AND SUPPLY FAN (SF-24) ASSOCIATED WITH CONCESSIONS, INCLUDE PRICE OF ALL MANUFACTURER PROVIDED ACCESSORIES AND CONTROL WORK REQUIRED TO INTERLOCK WITH KITCHEN HOOD. DO NOT INCLUDE COSTS ASSOCIATED WITH DUCTWORK AND PIPING REQUIRED TO SERVE THE EQUIPMENT.



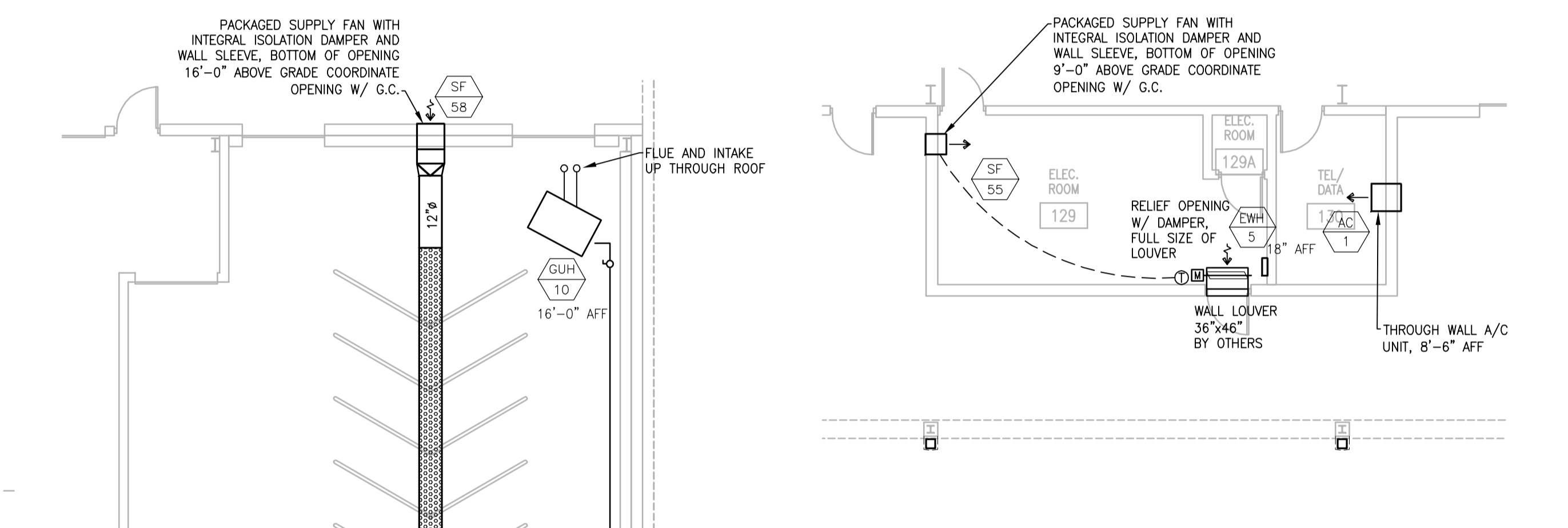
9 TYPICAL PAVILION MECHANICAL SECTION - SOUTH  
M301

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



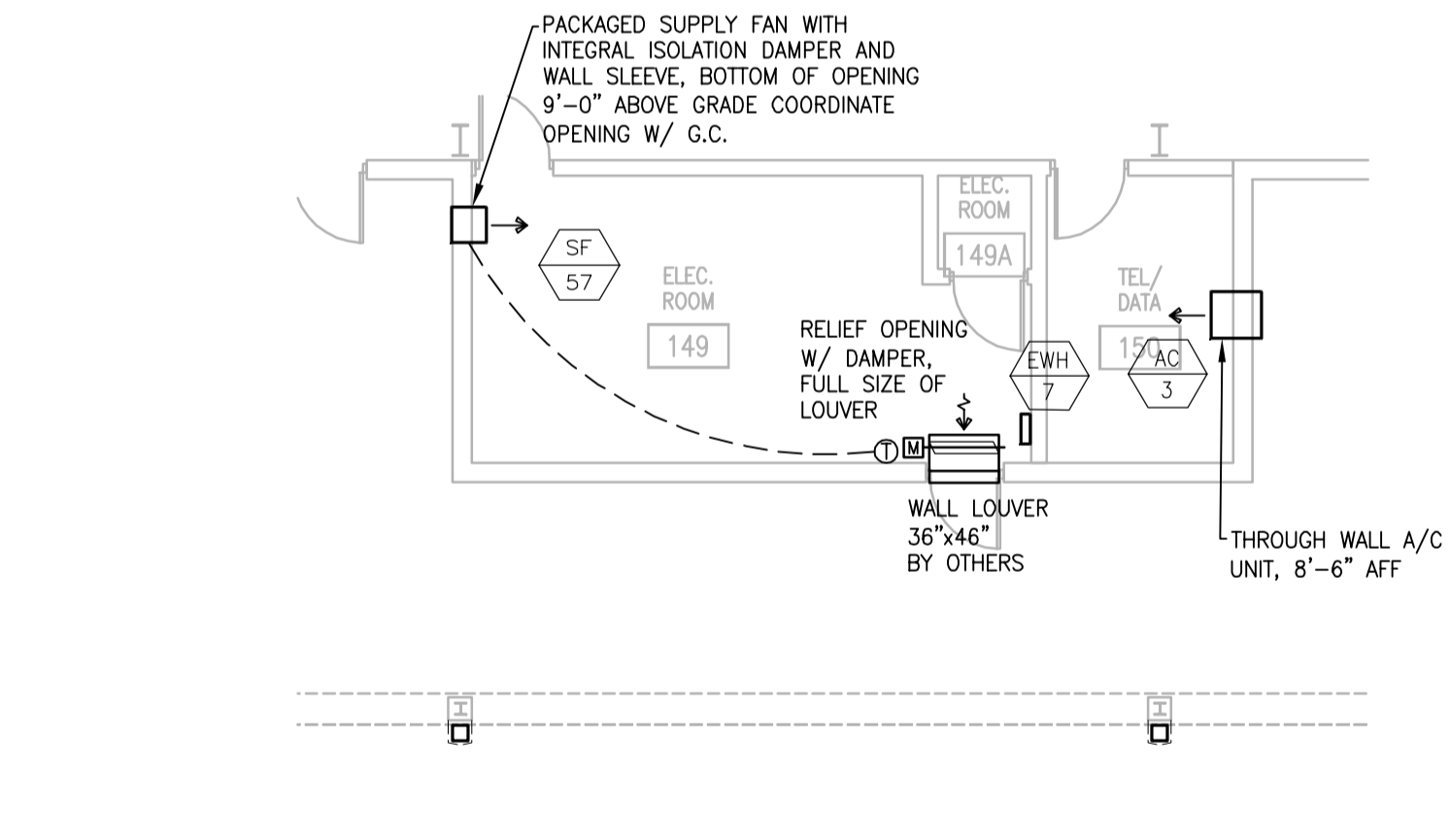
8 TYPICAL PAVILION MECHANICAL SECTION - NORTH  
M301

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



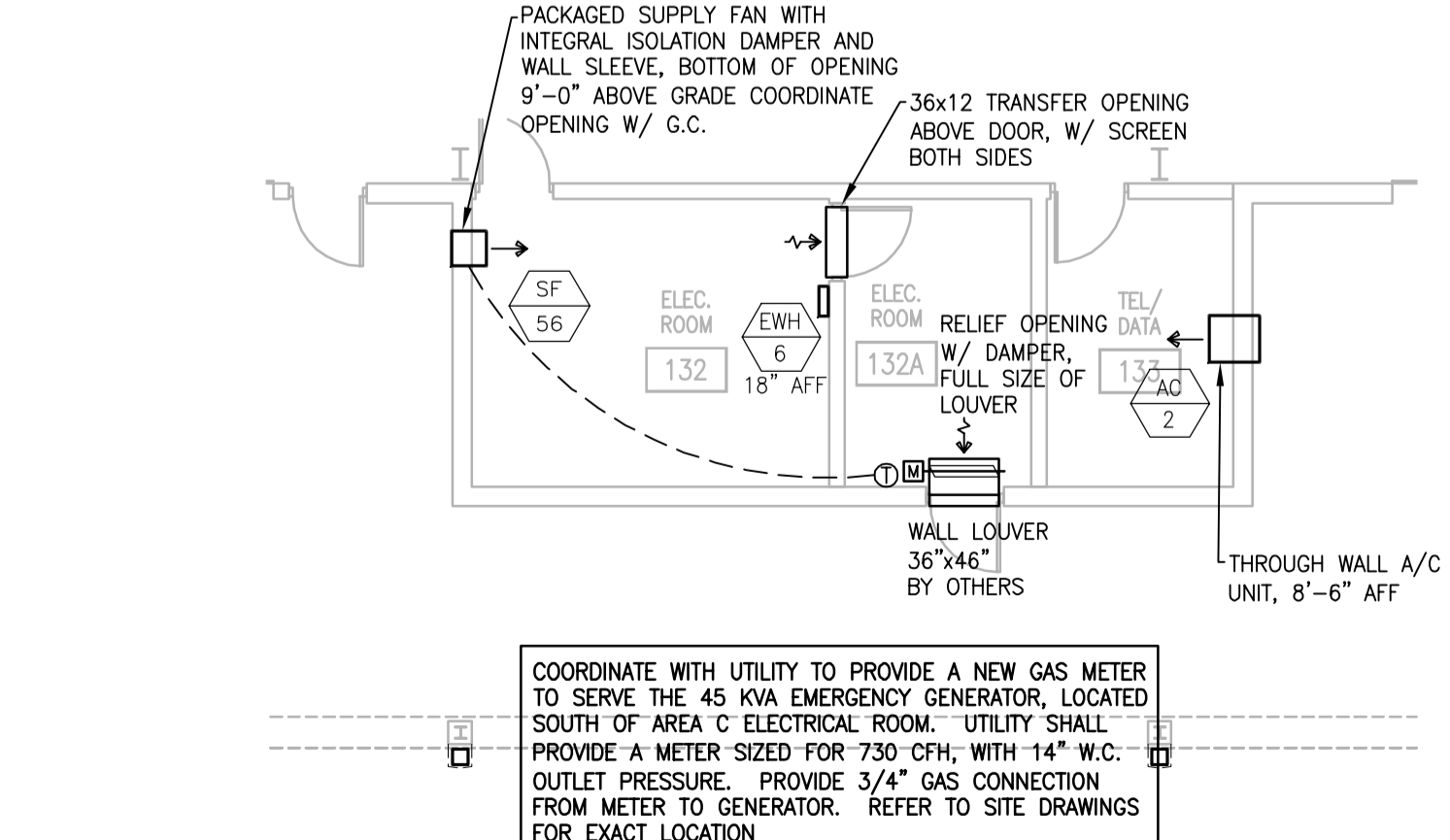
AREA B ELECTRICAL AND DATA ROOM EXPANDED HVAC PLAN  
M301

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



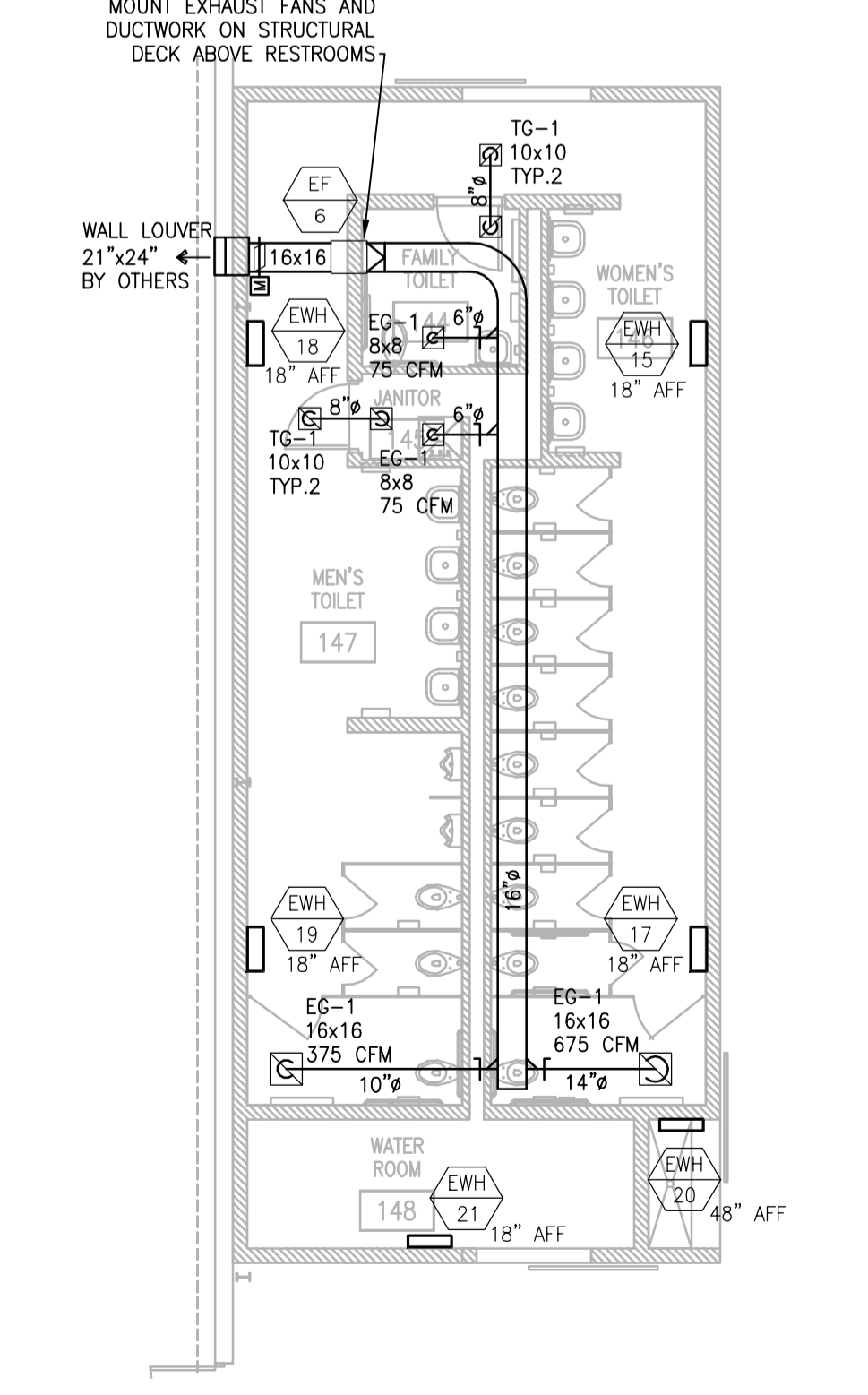
AREA D ELECTRICAL AND DATA ROOM EXPANDED HVAC PLAN  
M301

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



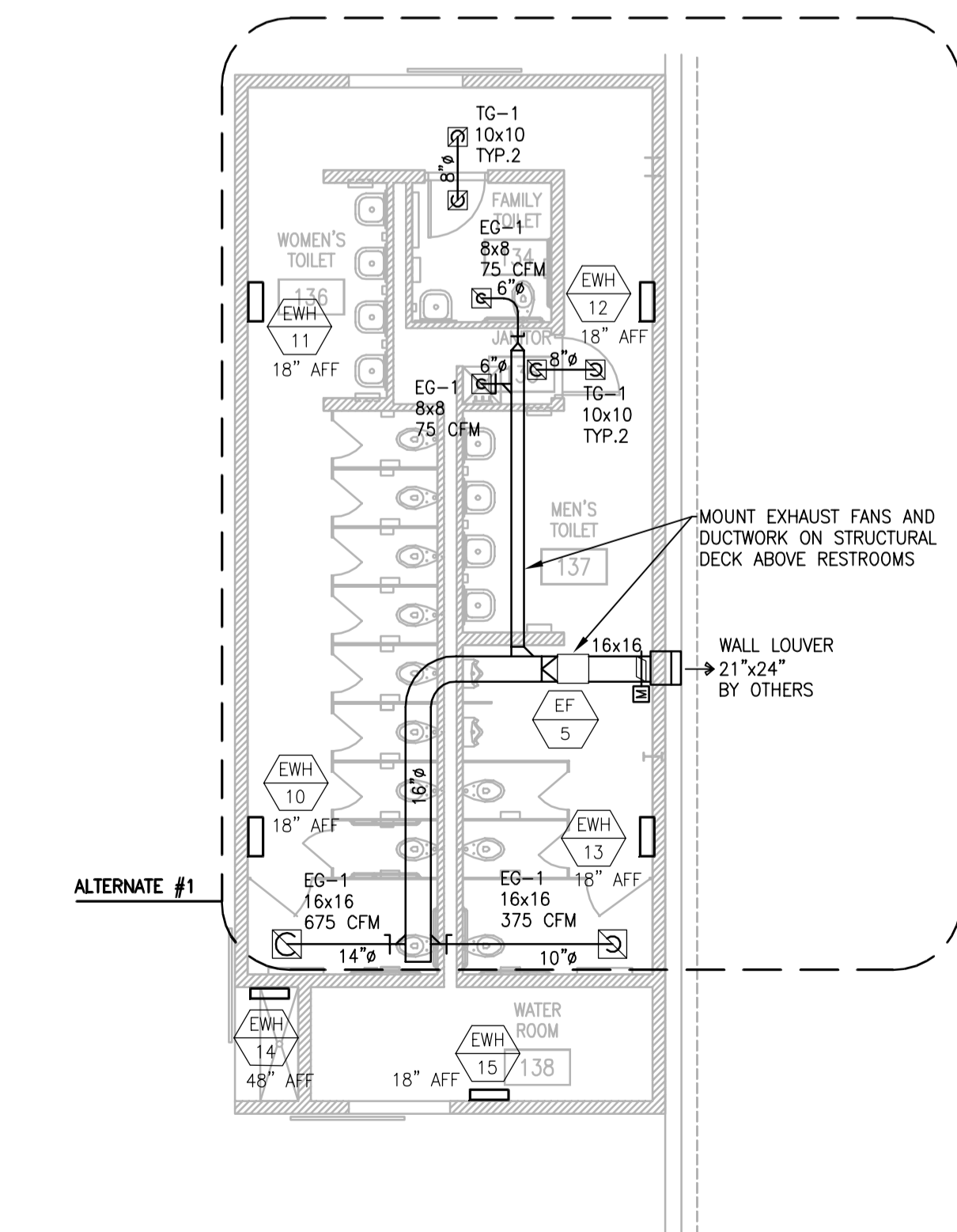
AREA C ELECTRICAL AND DATA ROOM EXPANDED HVAC PLAN  
M301

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



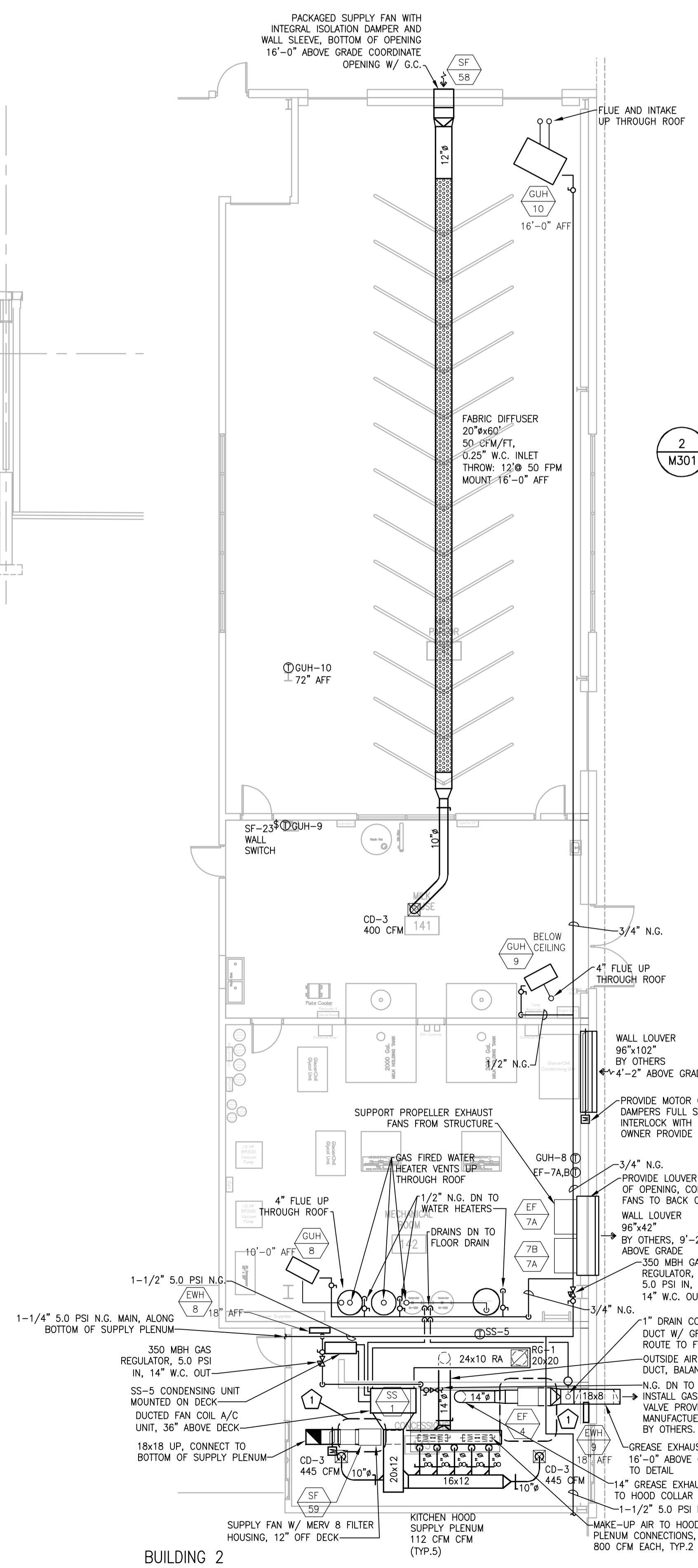
BUILDING 2 WEST RESTROOM EXPANDED HVAC PLAN  
M301

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



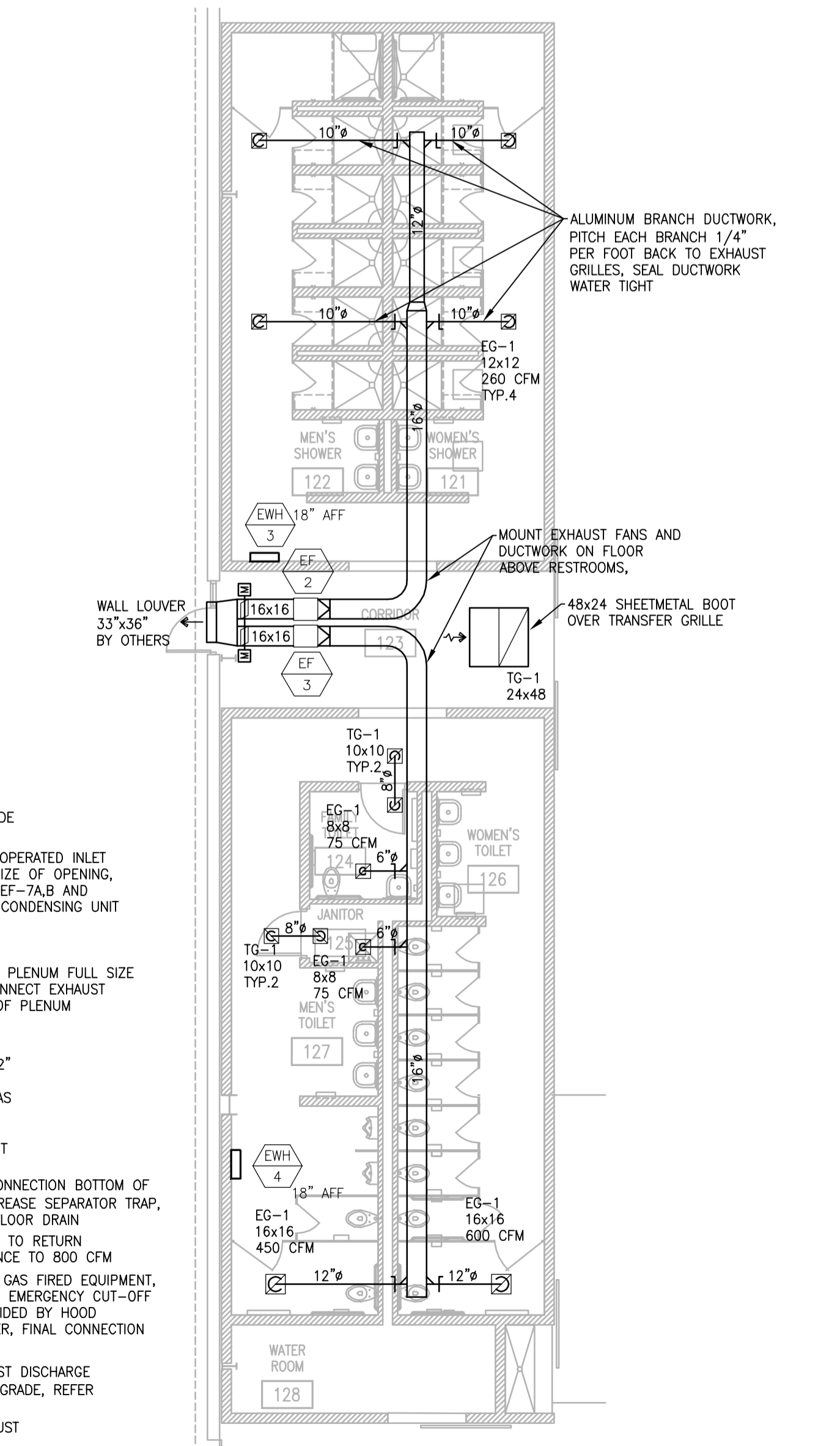
BUILDING 2 WEST RESTROOM EXPANDED HVAC PLAN  
M301

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



BUILDING 2 CONCESSION AND MILK PARLOR EXPANDED HVAC PLAN  
M301

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



BUILDING 1 RESTROOM AND SHOWER EXPANDED HVAC PLAN  
M301

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

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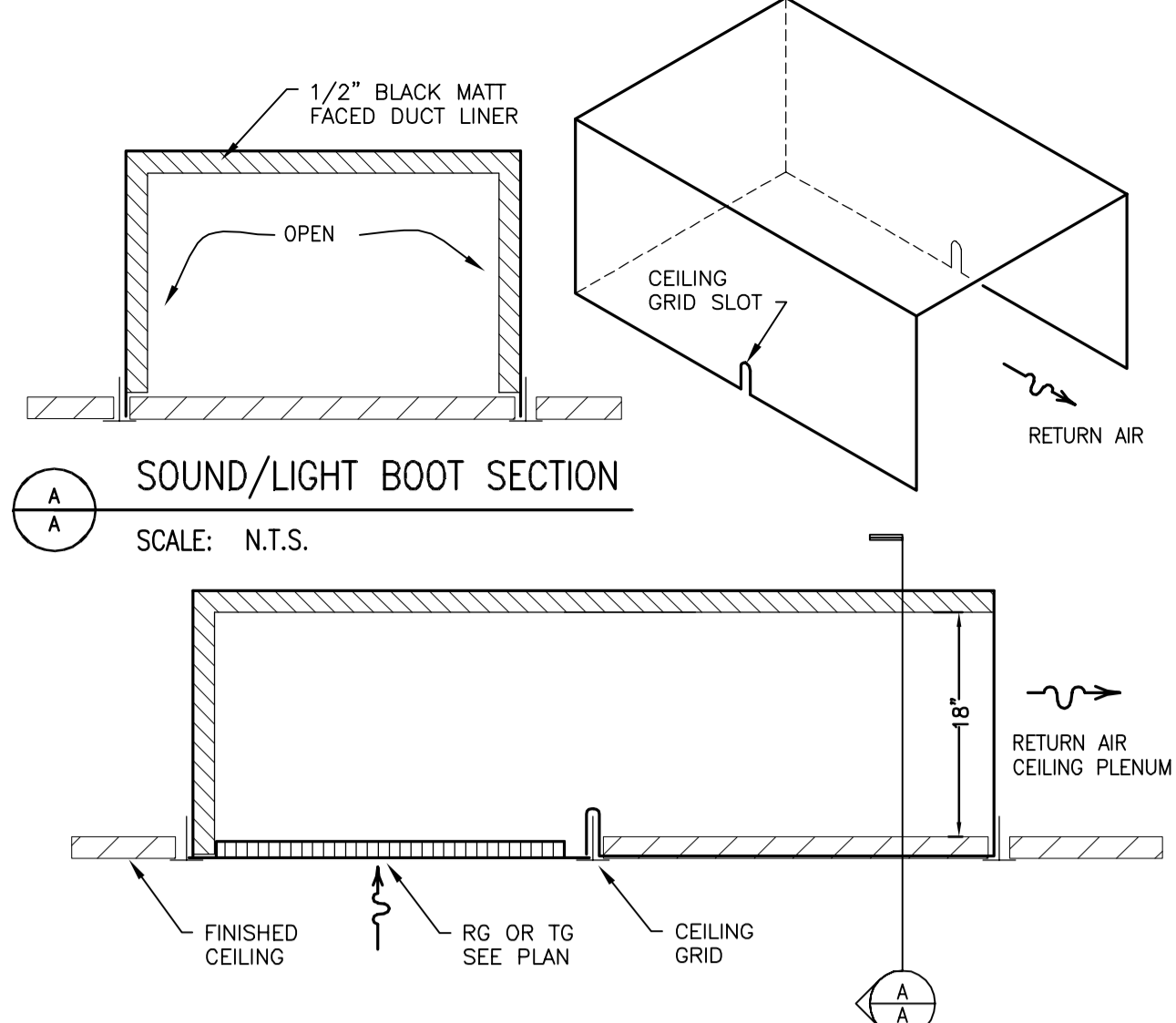
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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

**ALLIANT ENERGY CENTER PAVILIONS BID # 313072**

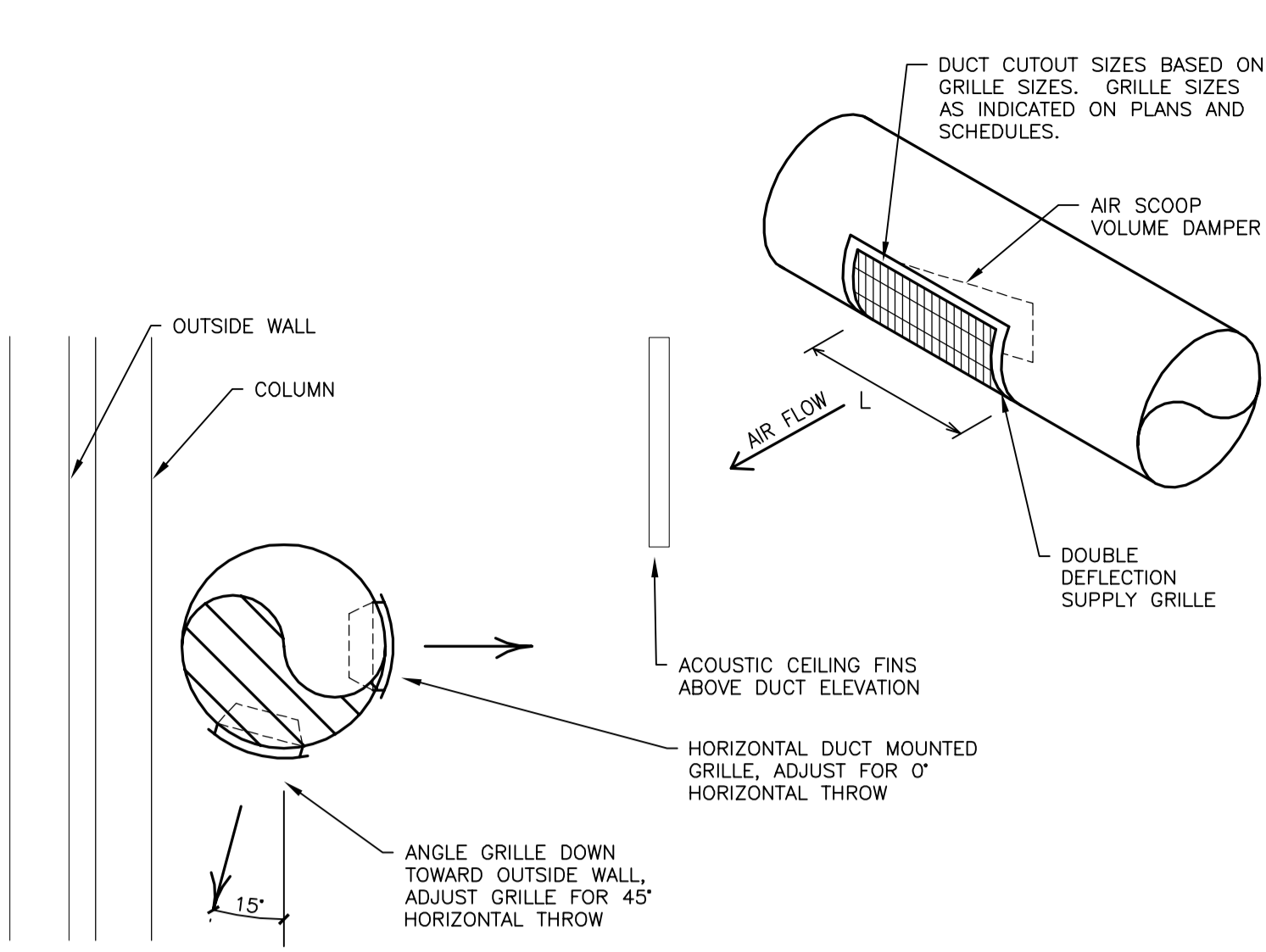
1919 ALLIANT ENERGY CENTER WAY  
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**MECHANICAL SECTIONS AND EXPANDED PLANS**

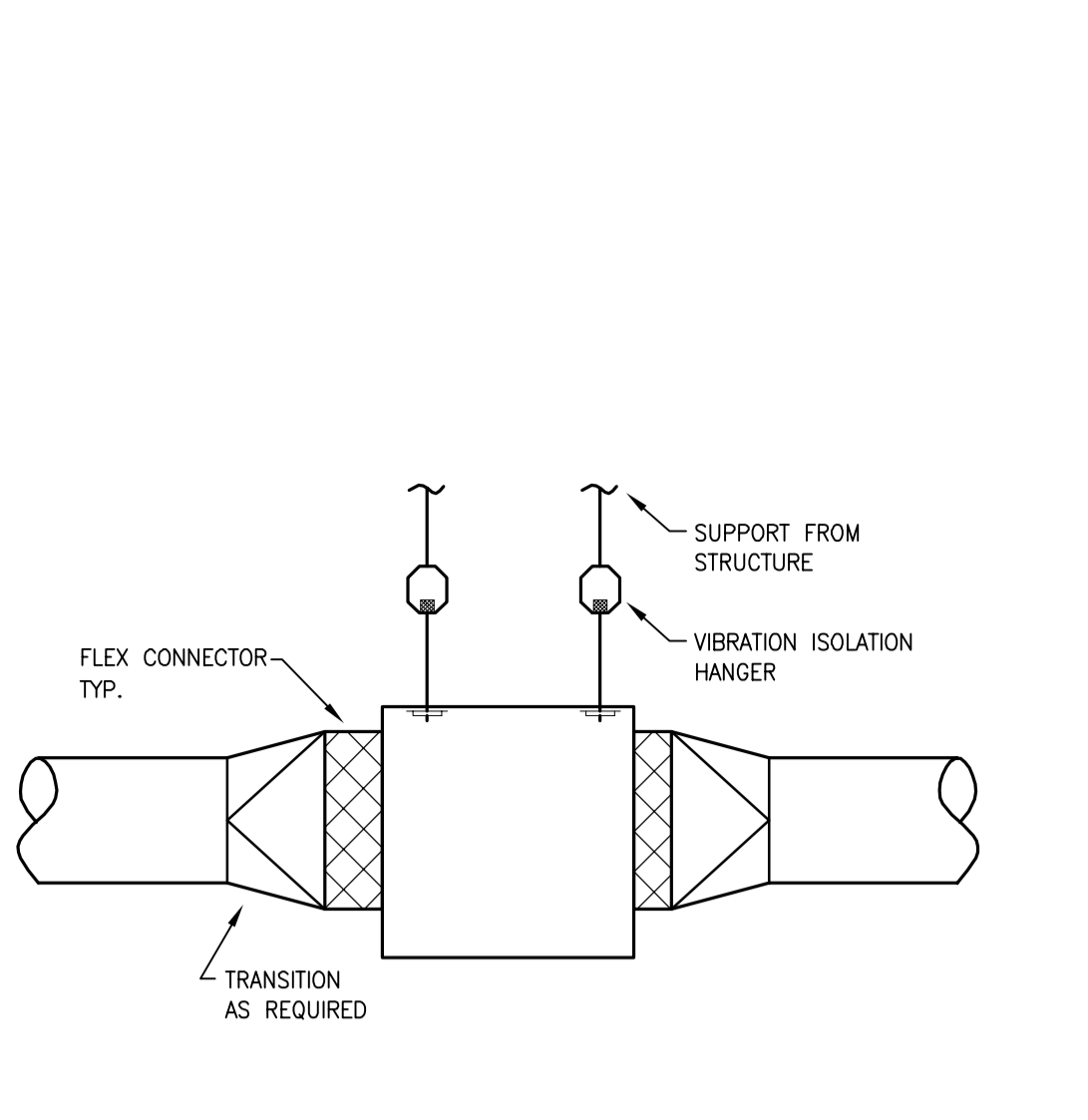
SHEET NO.  
**M301**



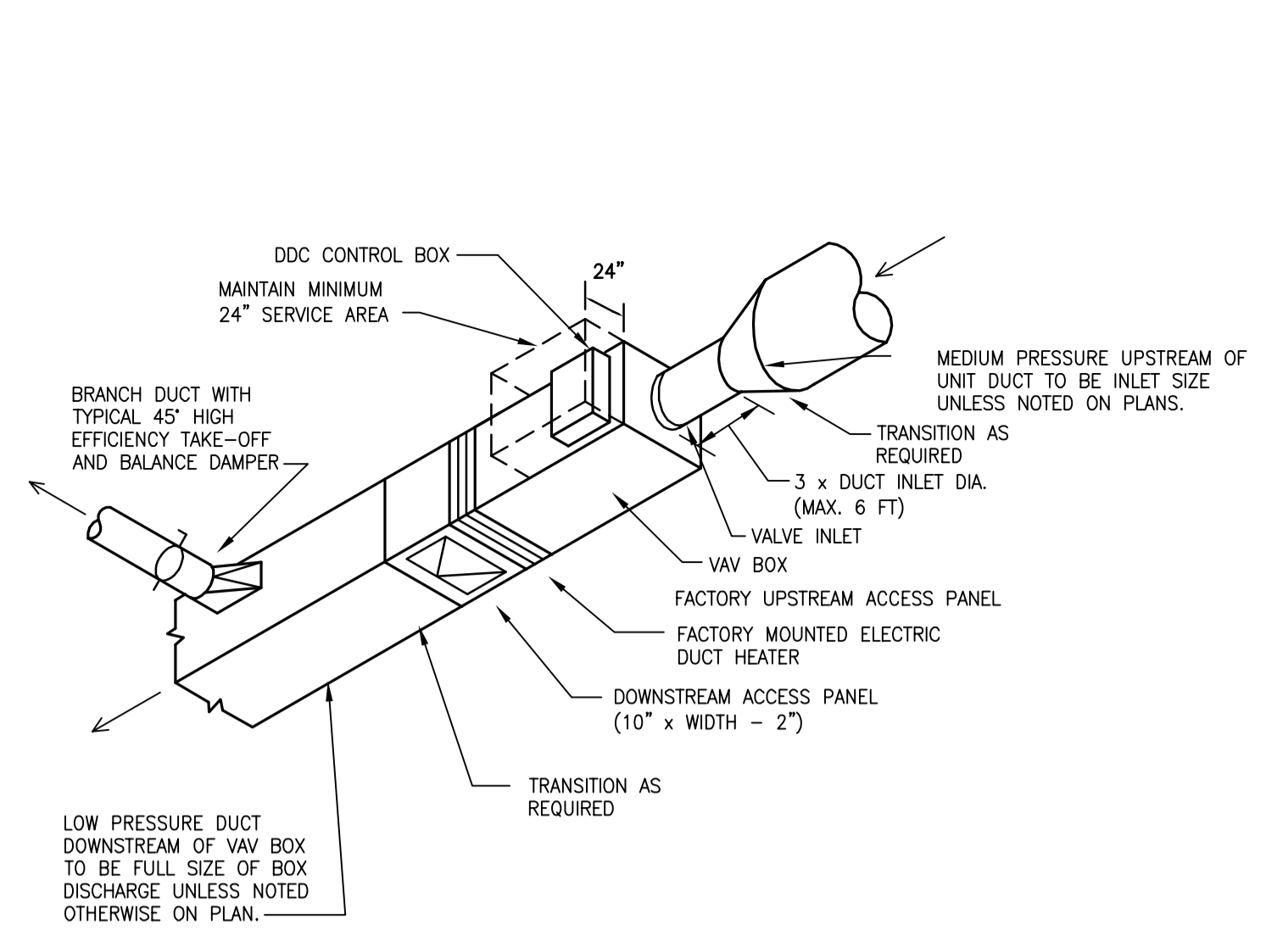
18 RA PLENUM SOUND/LIGHT BOOT DETAIL  
SCALE: N.T.S.



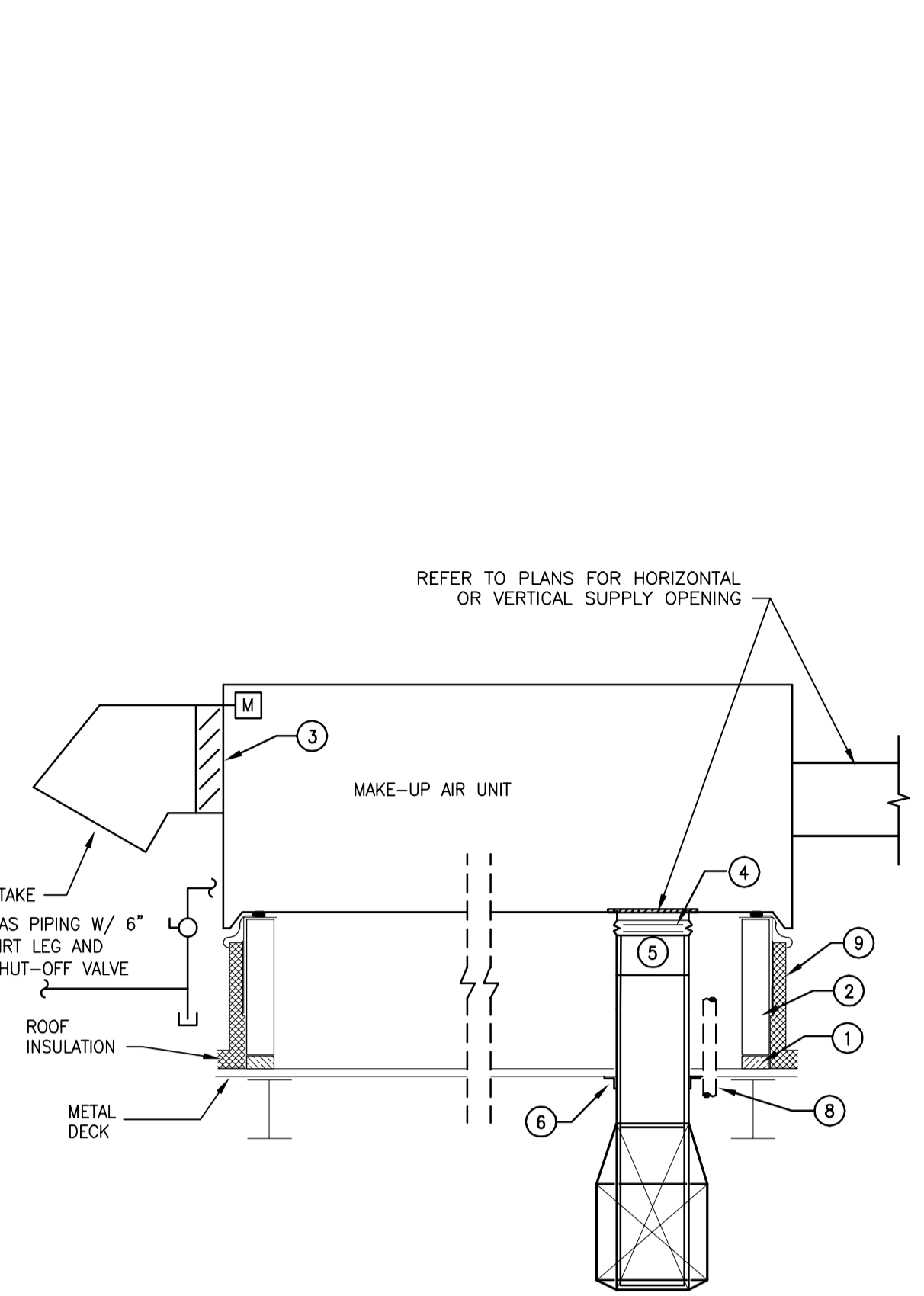
13 ROUND DUCT SUPPLY GRILLE DETAIL  
SCALE: N.T.S.



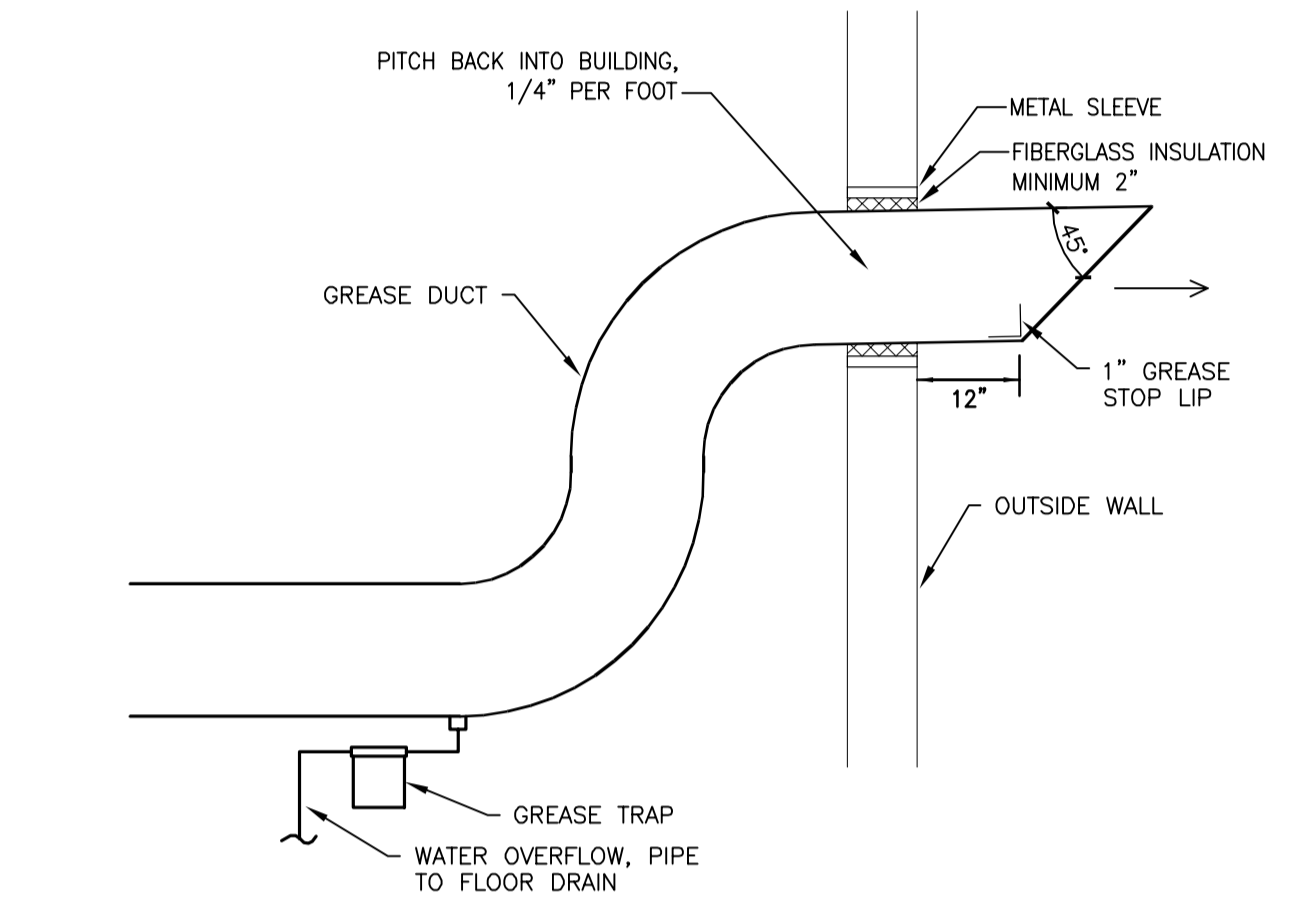
9 INLINE FAN DETAIL  
SCALE: N.T.S.



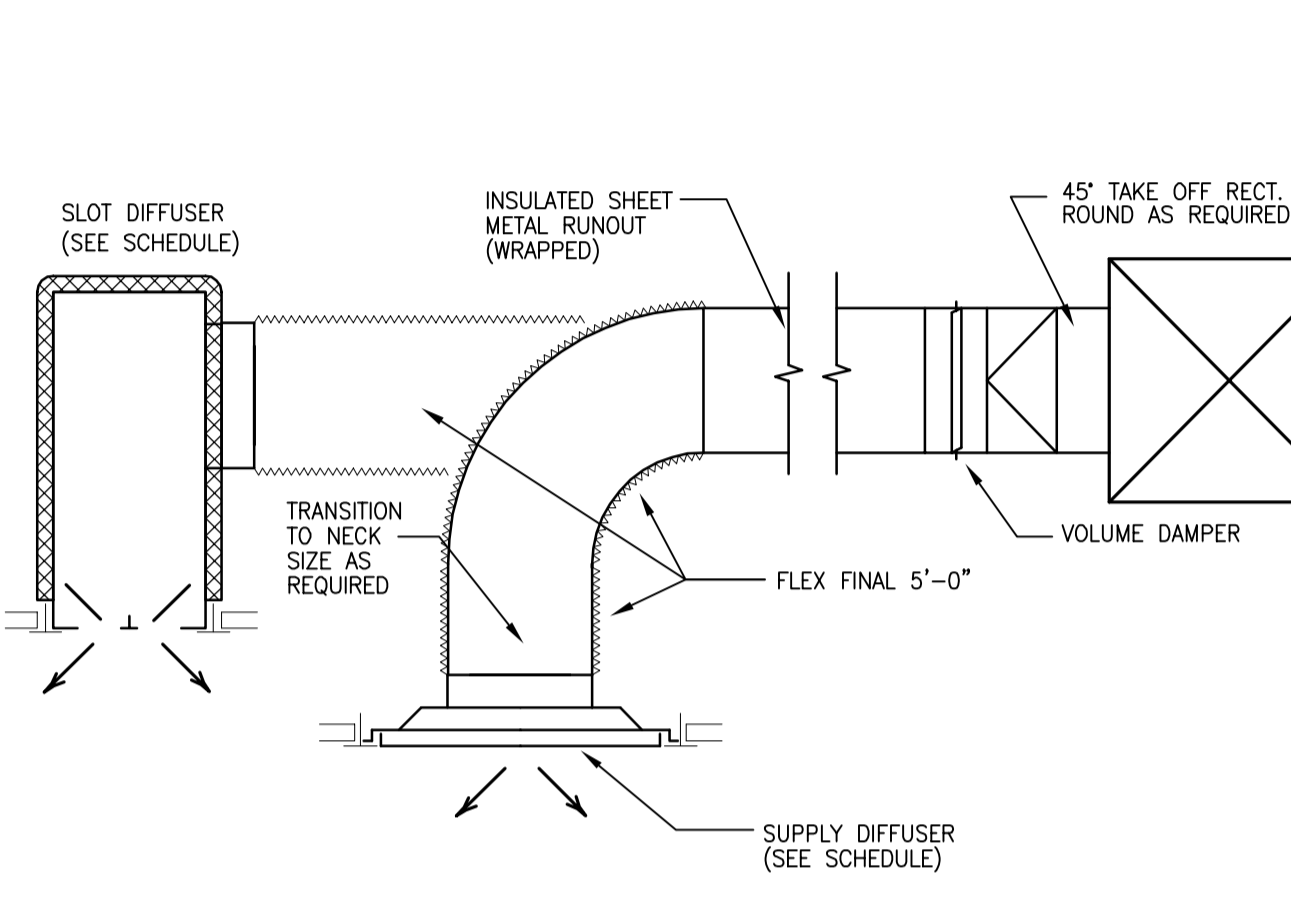
4 VAV W/ REHEAT INSTALLATION DETAIL  
SCALE: N.T.S.



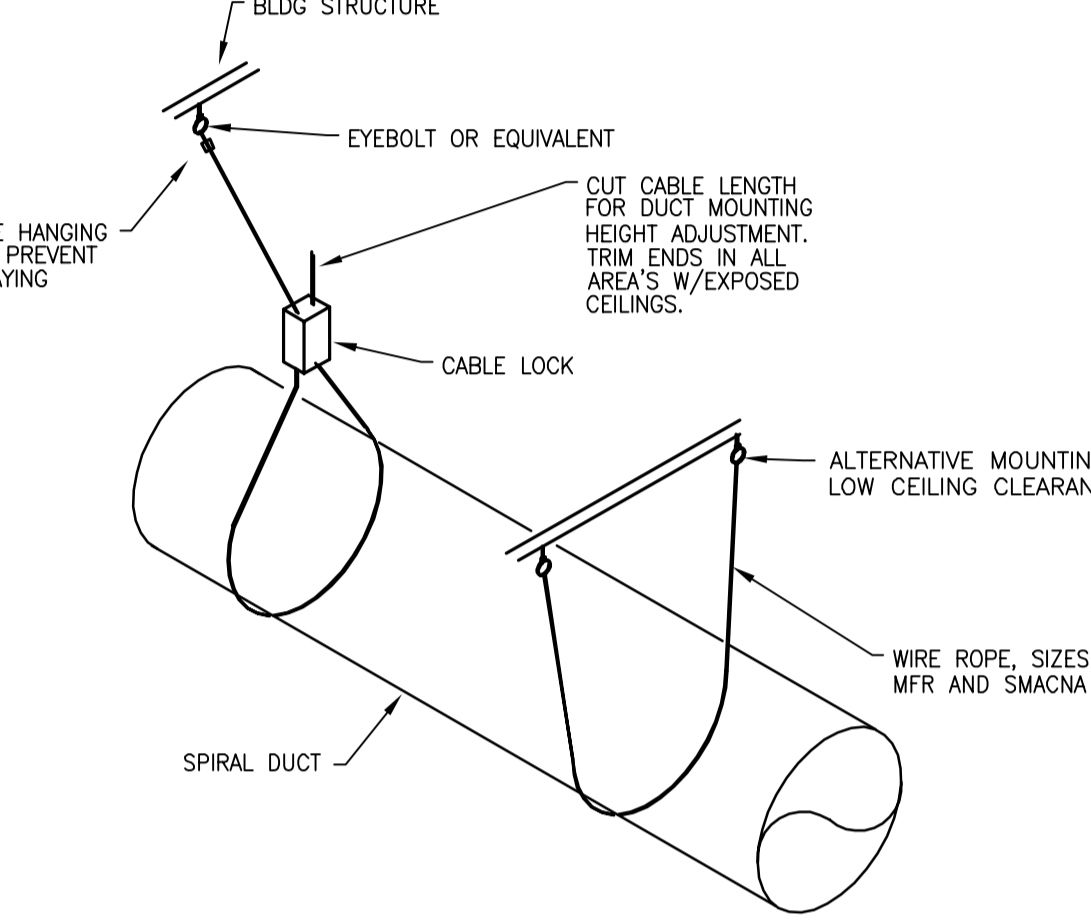
1 MAKE-UP AIR UNIT  
SCALE: N.T.S.



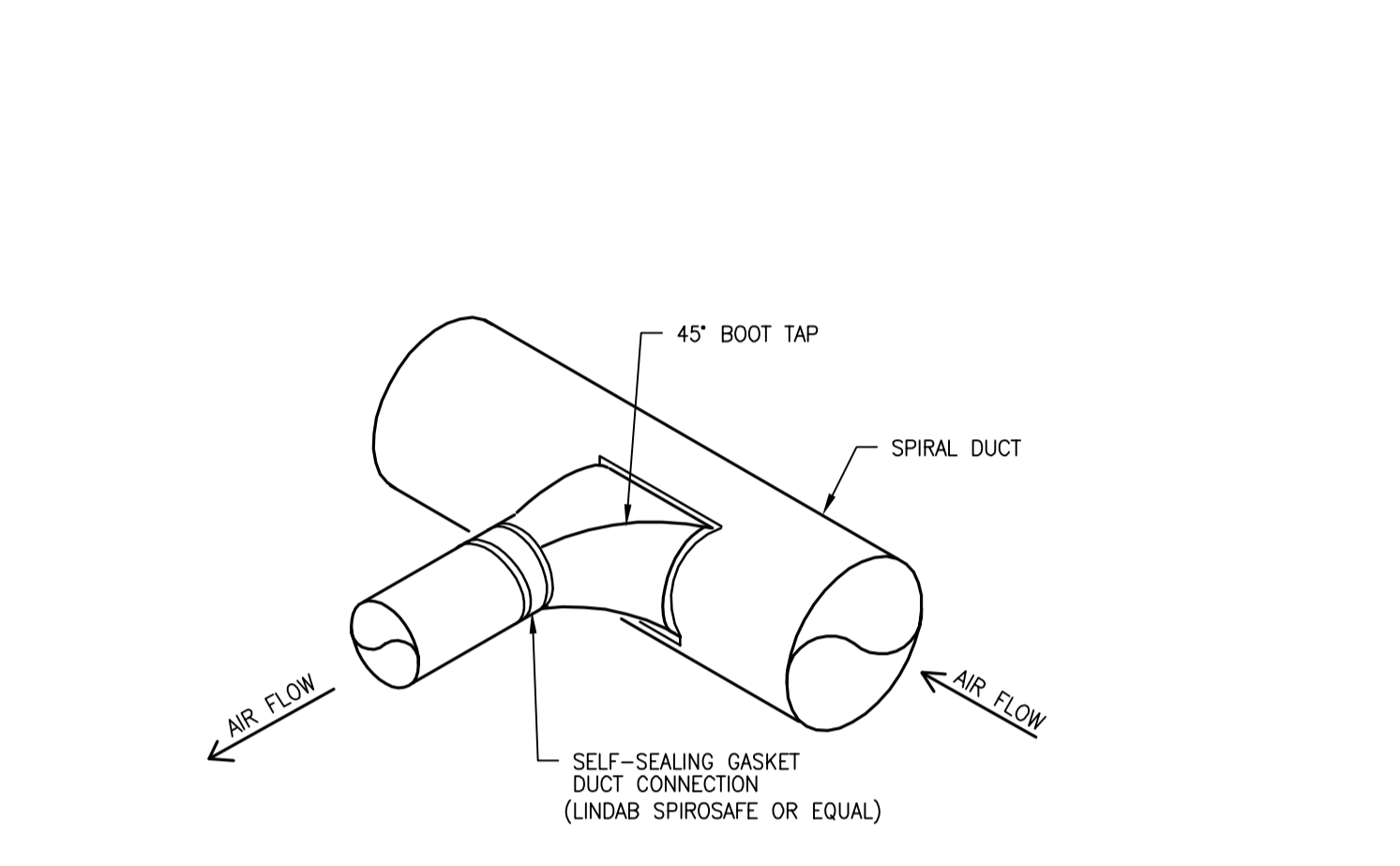
19 KITCHEN EXHAUST WALL OUTLET DETAIL  
SCALE: N.T.S.



14 CEILING DIFFUSER DETAIL  
SCALE: N.T.S.



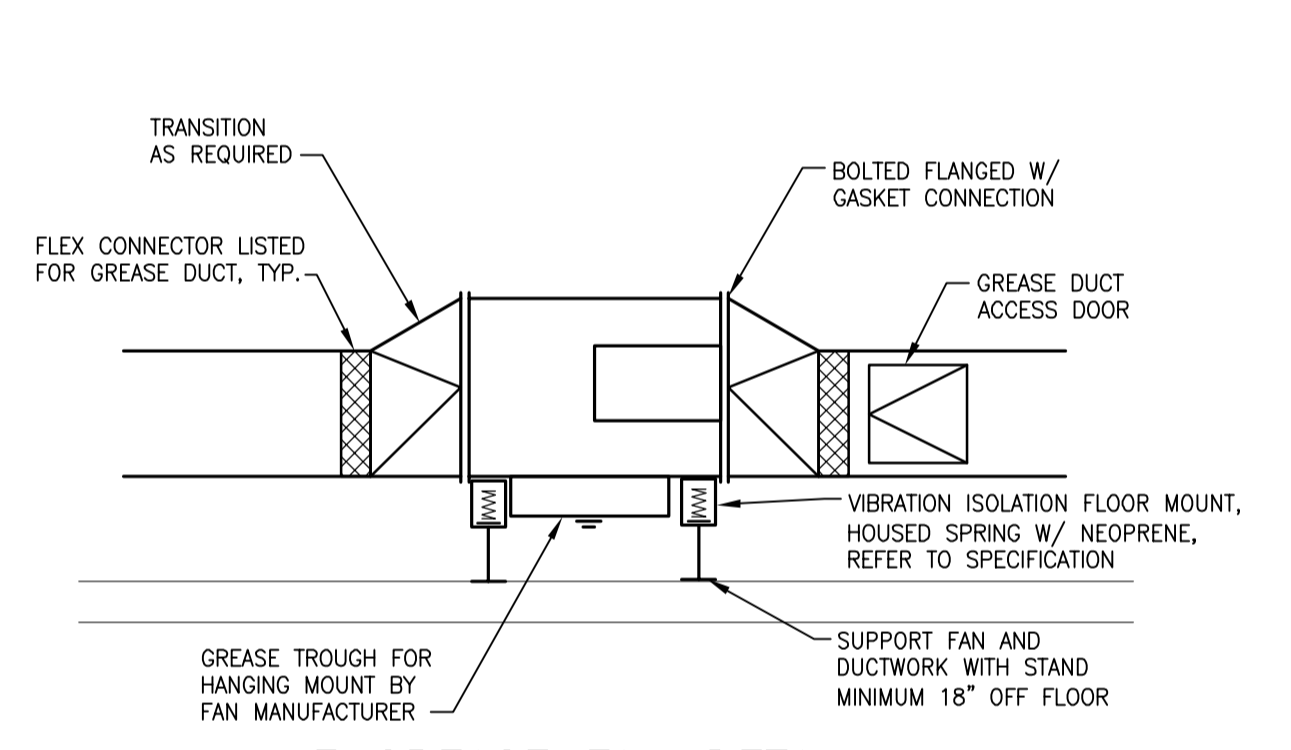
10 SPIRAL DUCT SUSPENSION DETAIL  
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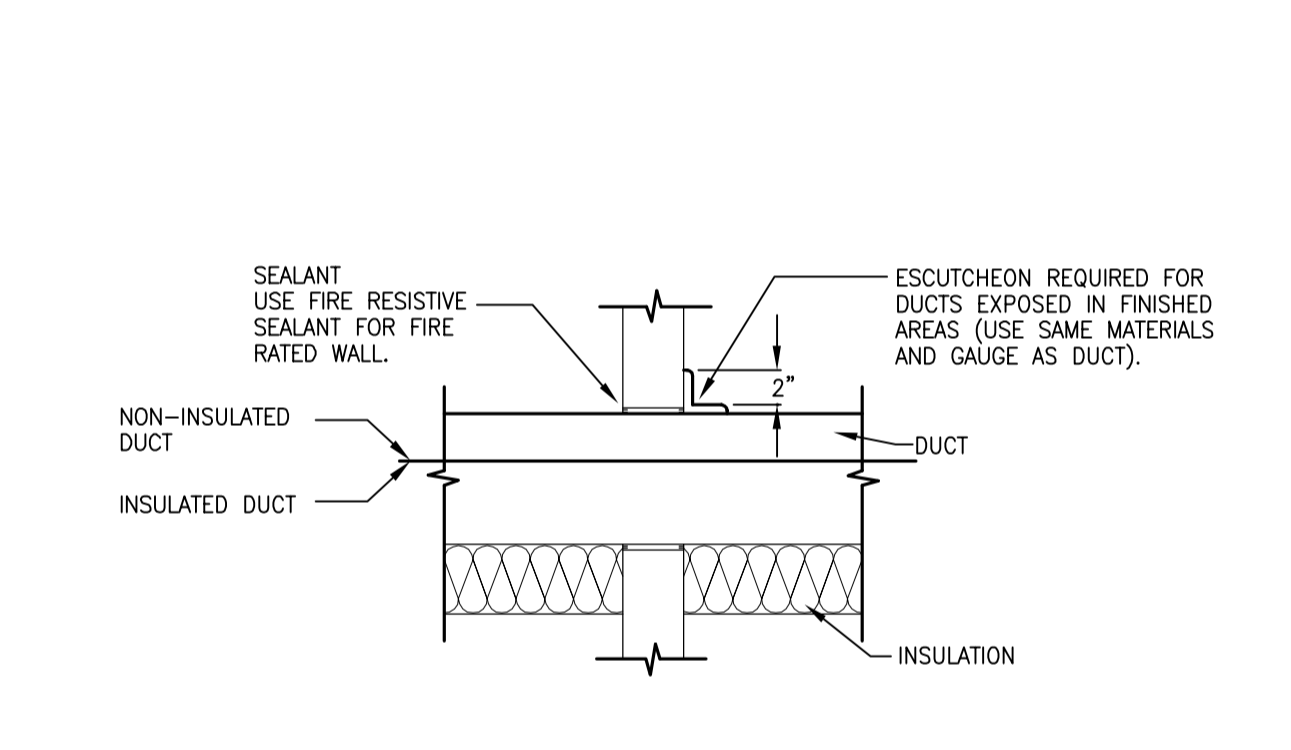
5 SPIRAL DUCT TEE TAP DETAIL  
SCALE: N.T.S.

- INSTALLATION NOTES:
- FIELD RIP PRESSURE TREATED WOOD TO INSURE CURB IS INSTALLED LEVEL.
  - EQUIPMENT CURBS, PROVIDED BY EQUIPMENT MANUFACTURER, INSTALLED BY G.C.
  - INLET ISOLATION DAMPER BY MAU MANUFACTURER.
  - FLEXIBLE DUCT CONNECTOR.
  - TRANSITION AS REQUIRED FOR CONNECTION TO ROOF TOP UNIT OPENINGS.
  - DUCT SUPPORT ANGLE. TYPICAL ALL SIDES.
  - COORDINATE PIPE/CONDUIT SLEEVE LOCATIONS.
  - ROOF CURB FLASHING BY G.C.

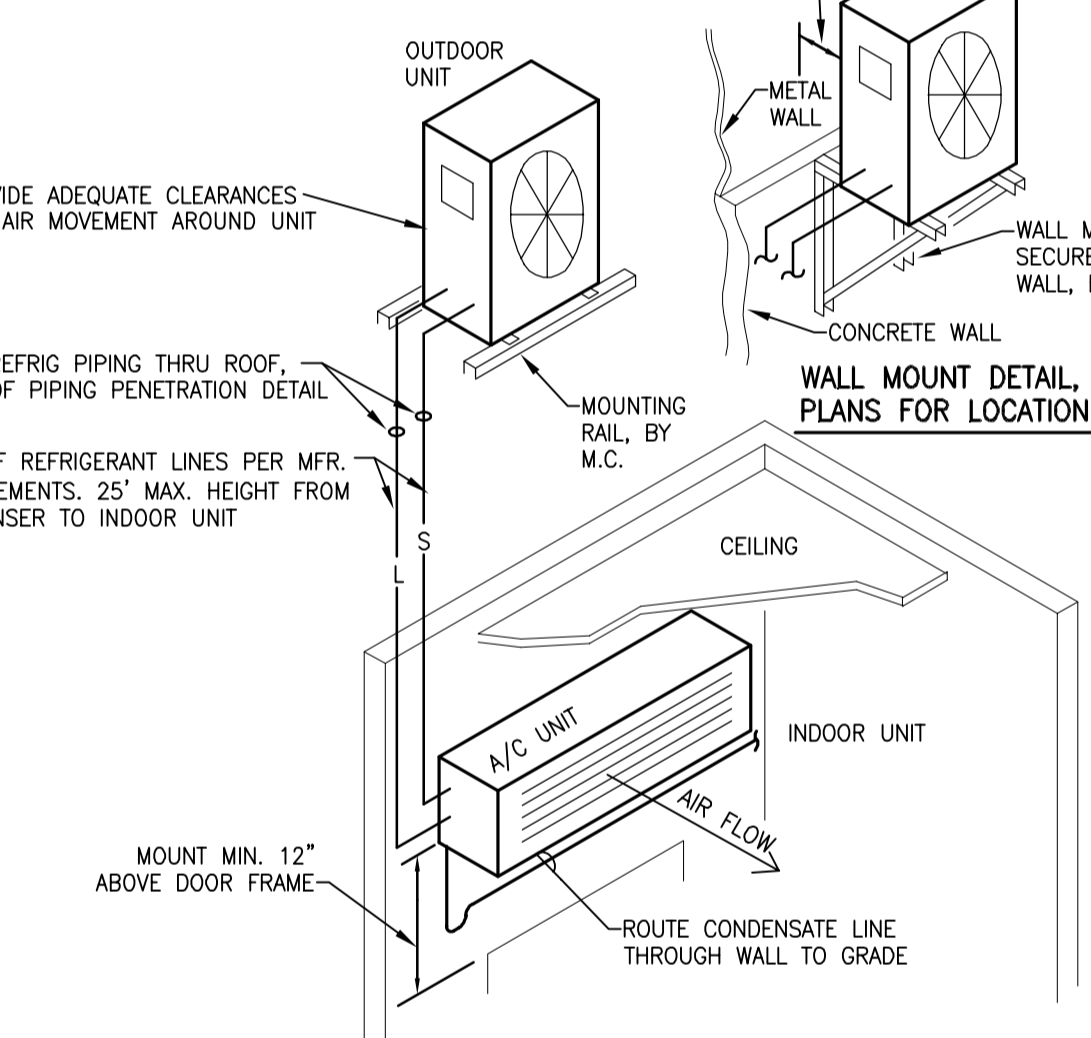
1 ROOF TOP MAU INSTALLATION DETAIL  
SCALE: N.T.S.



20 INLINE GREASE FAN DETAIL  
SCALE: N.T.S.



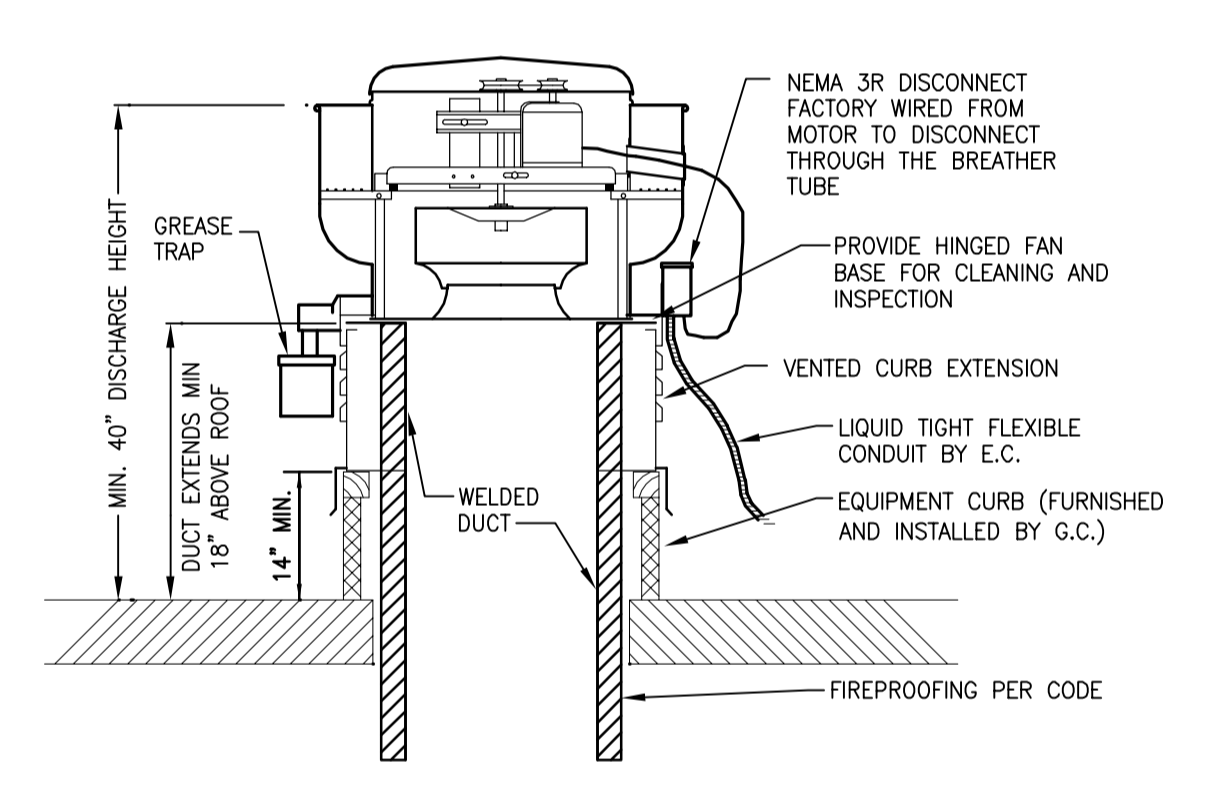
15 DUCT PENETRATION THRU INTERIOR WALL  
SCALE: N.T.S.



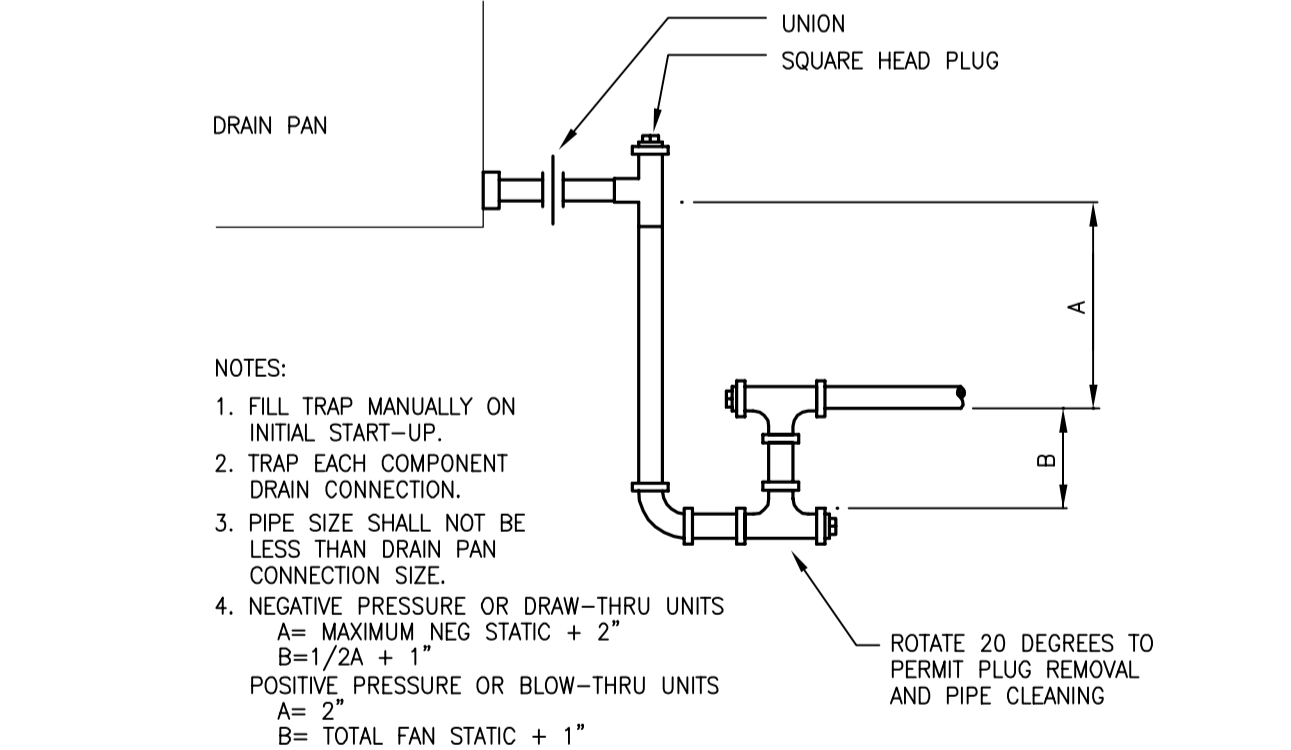
11 DATA CLOSET SPLIT SYSTEM AC UNIT DETAIL  
SCALE: N.T.S.

DESCRIPTION	DOUBLE LINE	SINGLE LINE
BRANCH TAKE-OFF SUPPLY, RETURN OR EXHAUST		
TEE		
ELBOW		
TRANSITION FITTING		

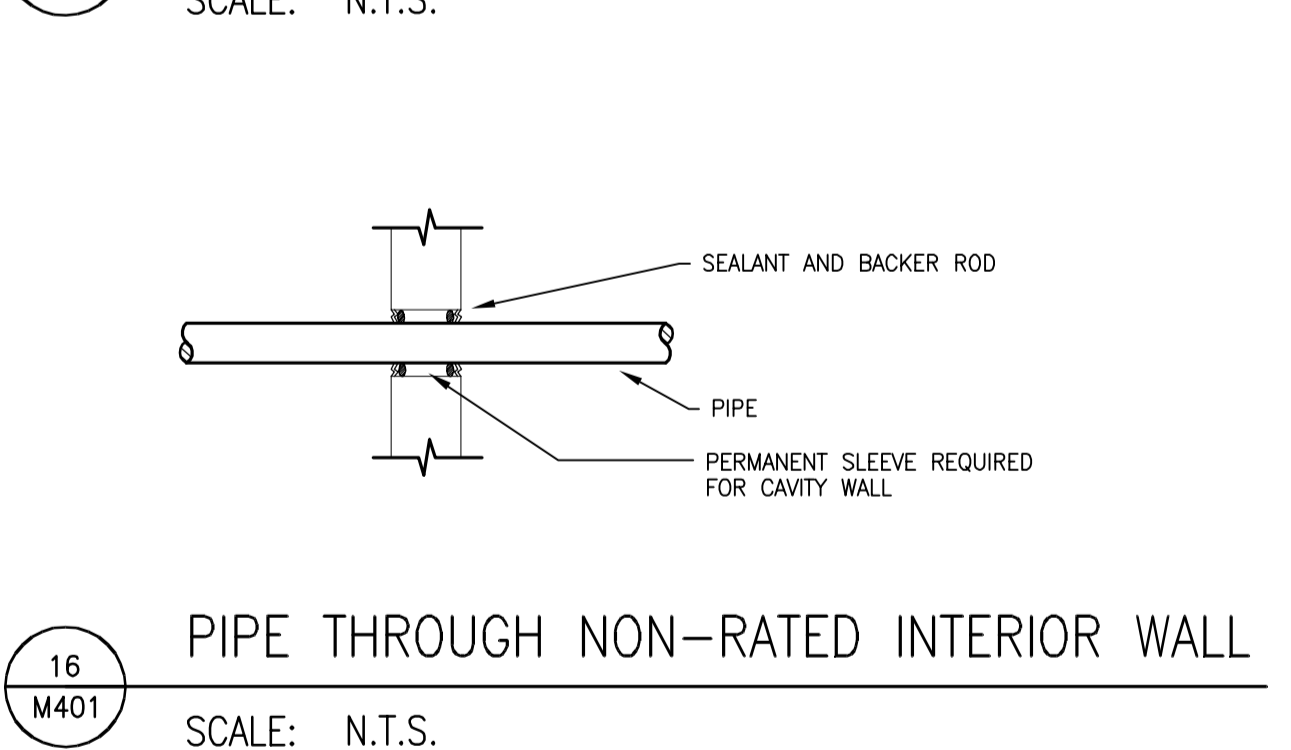
6 DUCT FITTINGS  
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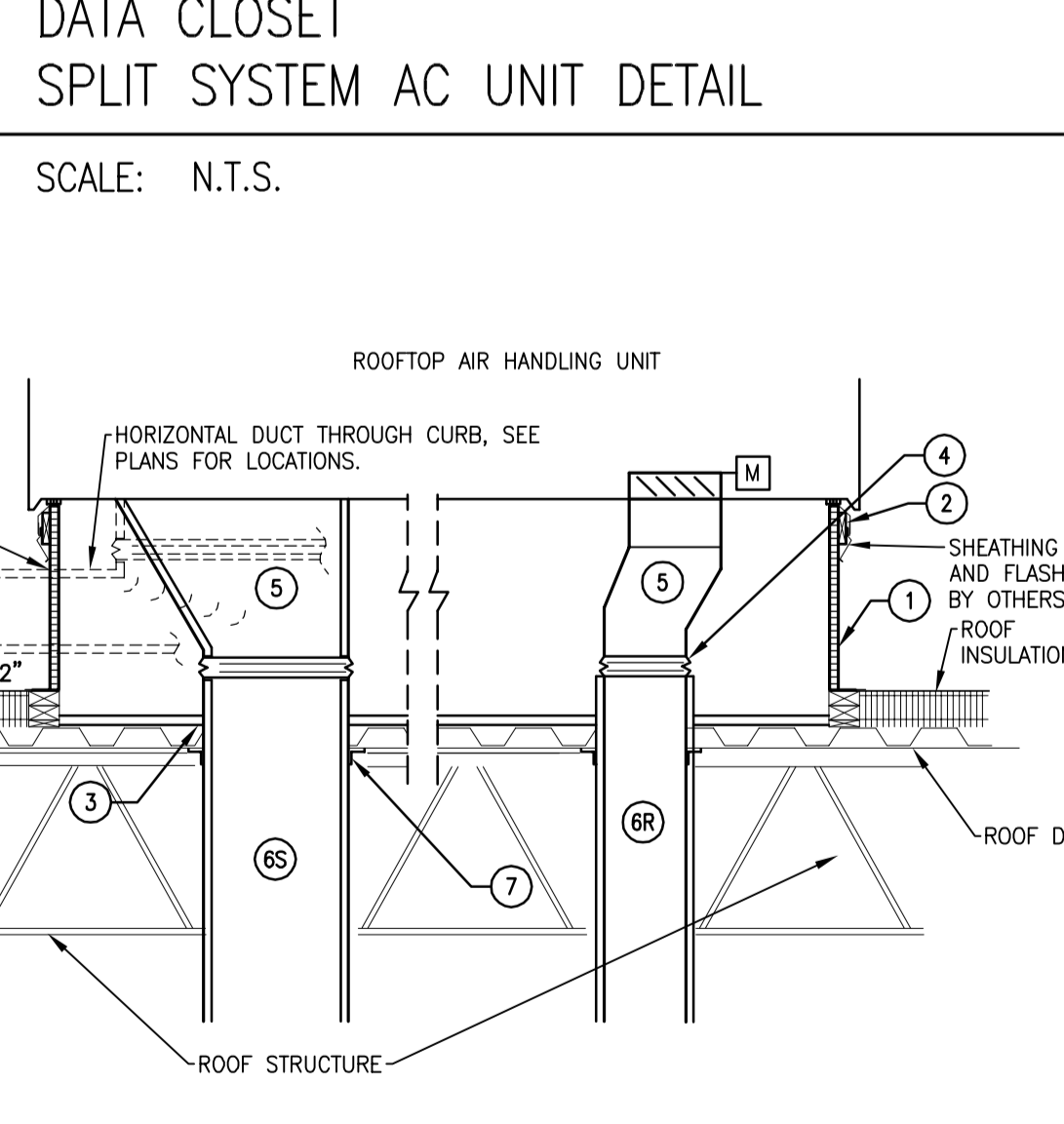
2 KITCHEN EXHAUST DETAIL  
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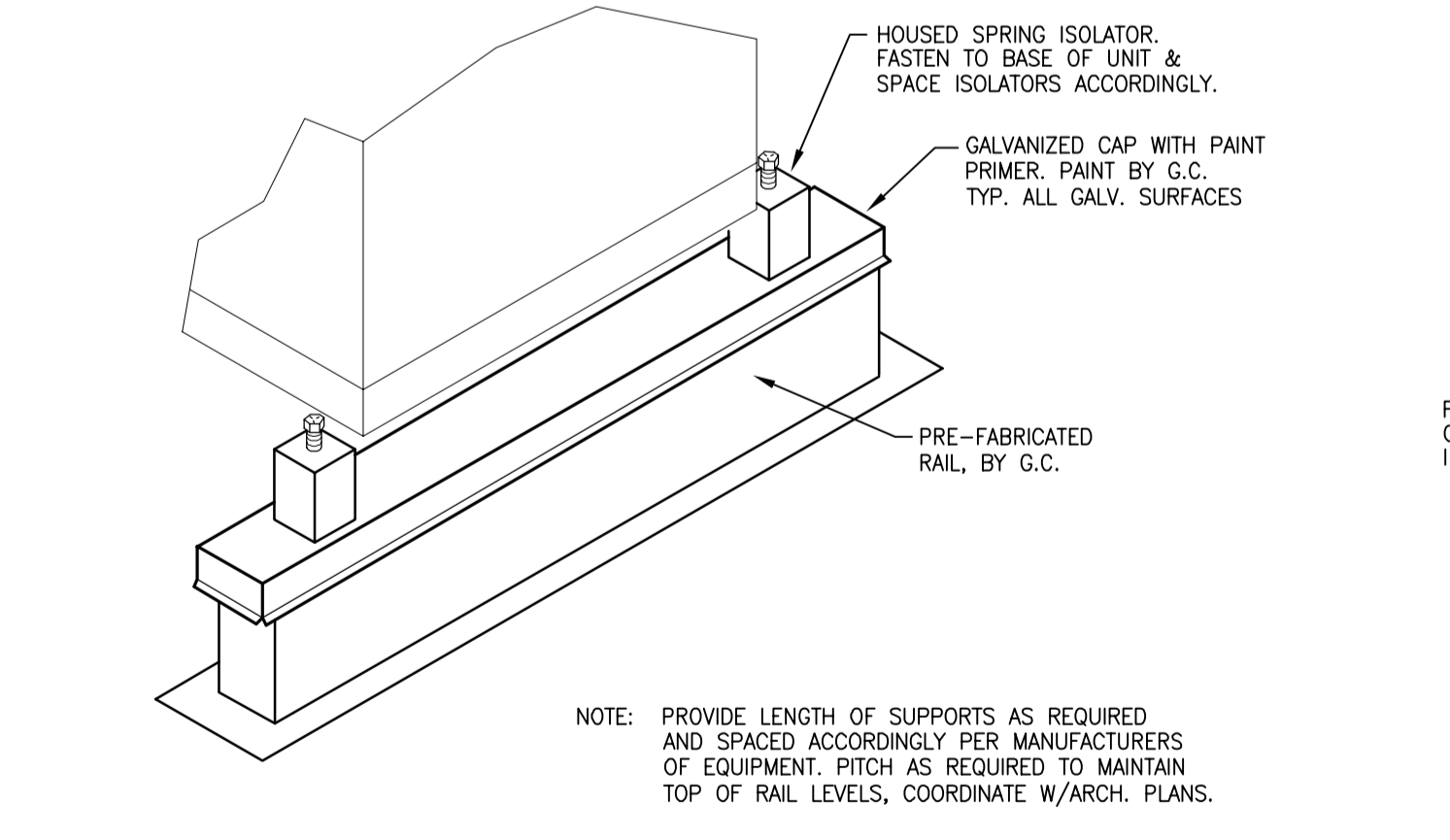
21 AIR HANDLING UNIT CONDENSATE DRAIN TRAP PIPING  
SCALE: N.T.S.



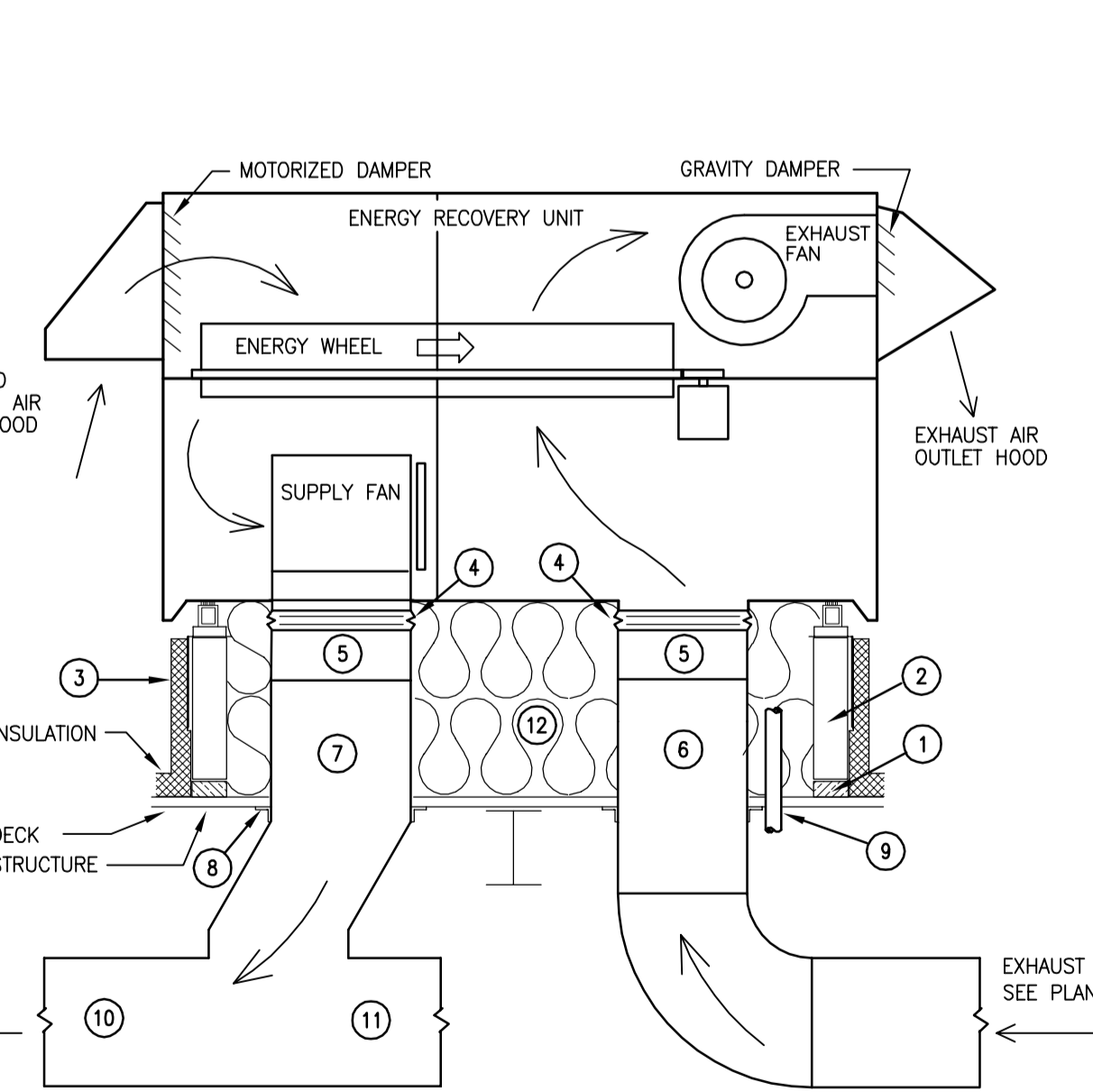
16 PIPE THROUGH NON-RATED INTERIOR WALL  
SCALE: N.T.S.



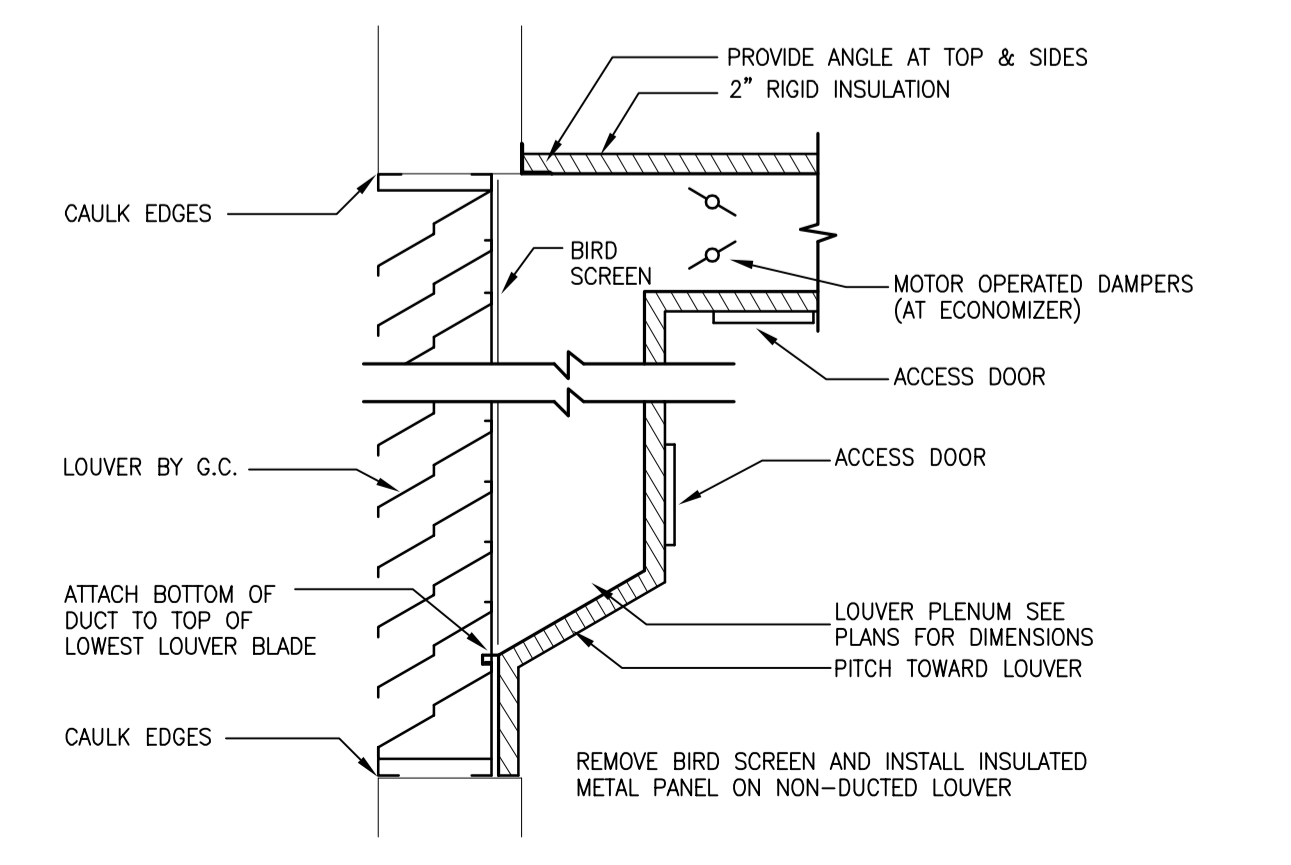
7 ROOFTOP AHU INSTALLATION DETAIL  
SCALE: N.T.S.



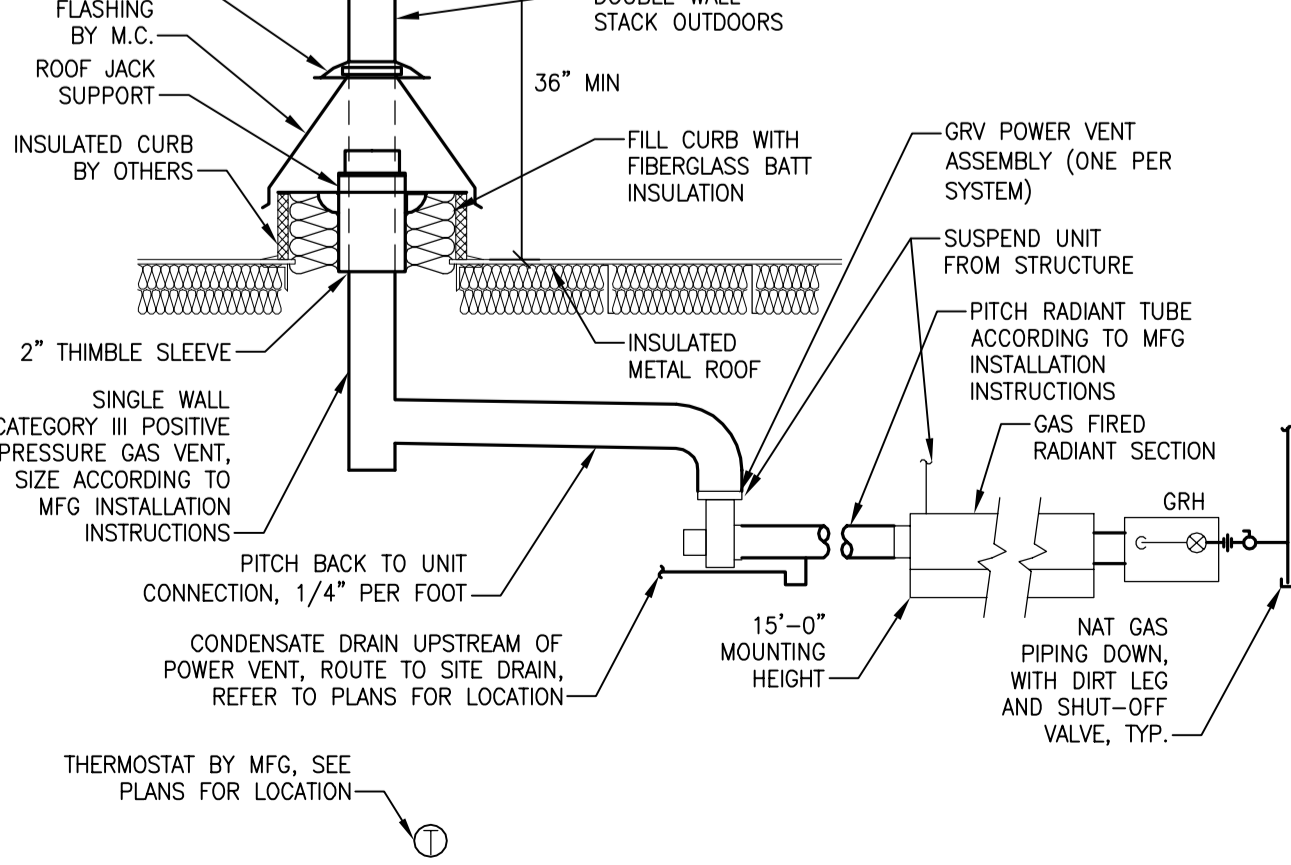
6 ROOF EQUIPMENT RAIL SUPPORT  
SCALE: N.T.S.



3 ROOF TOP ENERGY RECOVERY UNIT DETAIL  
SCALE: N.T.S.



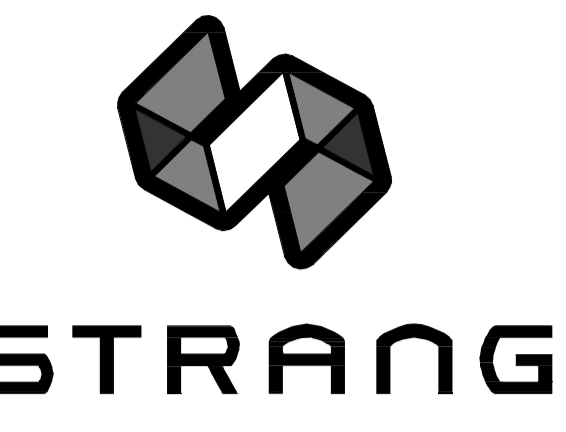
22 DUCT CONNECTION TO LOUVER  
SCALE: N.T.S.



17 GAS FIRED HEATER DETAIL  
SCALE: N.T.S.

12 ROOFTOP AHU INSTALLATION DETAIL  
SCALE: N.T.S.

8 ISOLATOR HEIGHT SAVING BRACKET  
SCALE: N.T.S.



ARCHITECTURE  
ENGINEERING  
INTERIOR DESIGN

STRANG INC.  
8411 MINERAL POINT ROAD  
MADISON, WI 53705-4395  
T/ 608 276 9200  
F/ 608 276 9204

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DATE	10-29-13
PROJECT NO.	2013027_02
PROJECT TITLE	

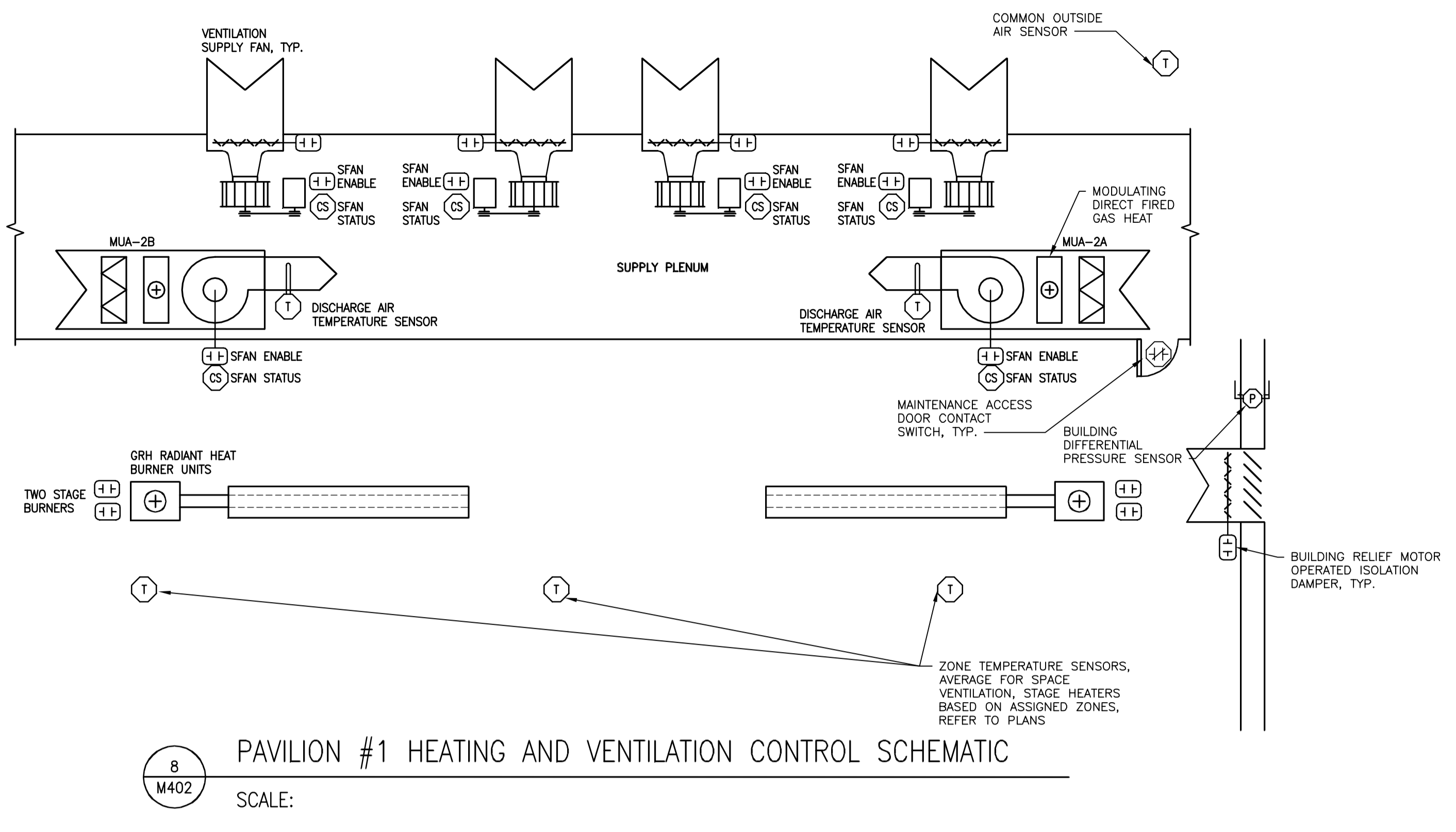
ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

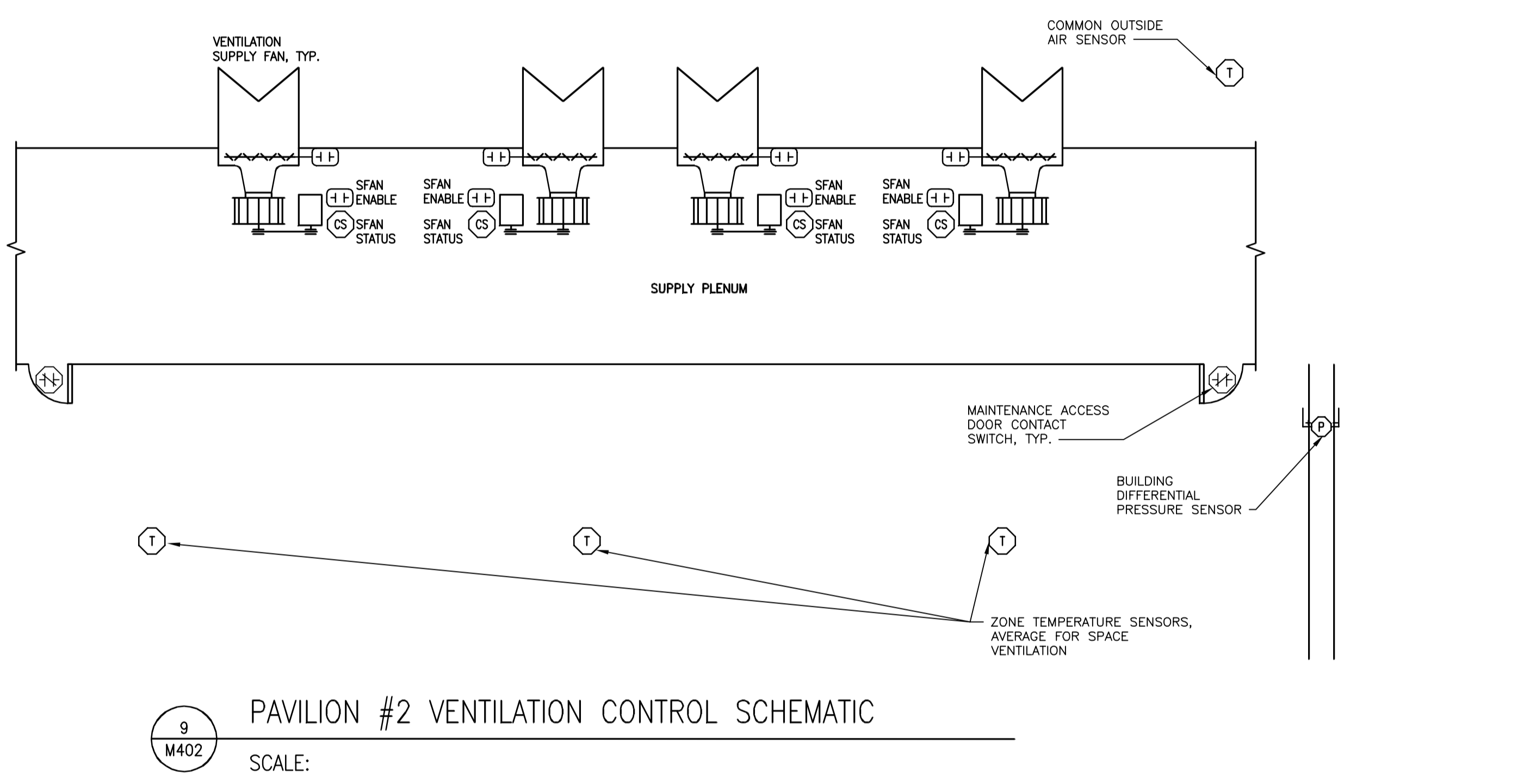
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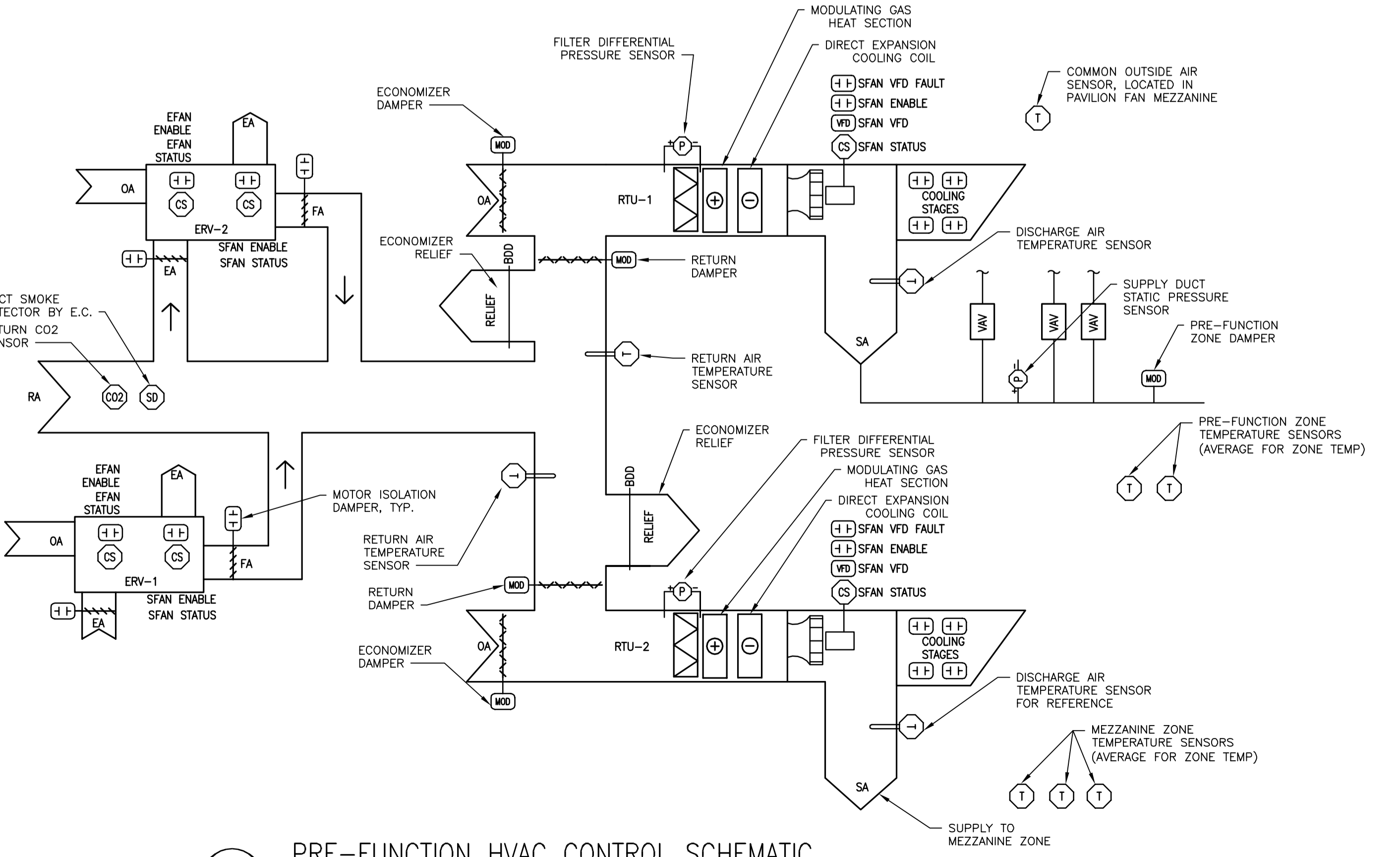
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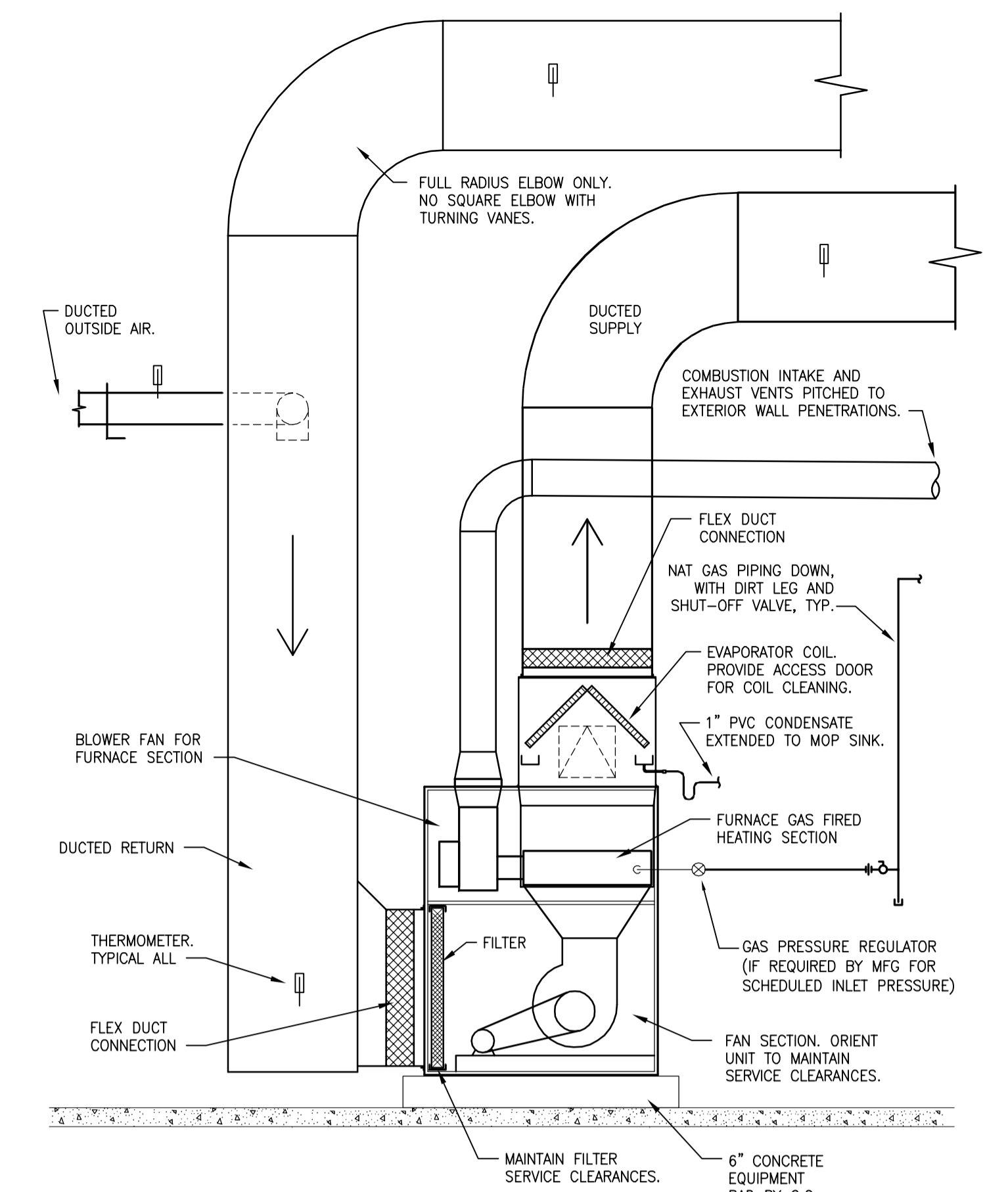
8 PAVILION #1 HEATING AND VENTILATION CONTROL SCHEMATIC  
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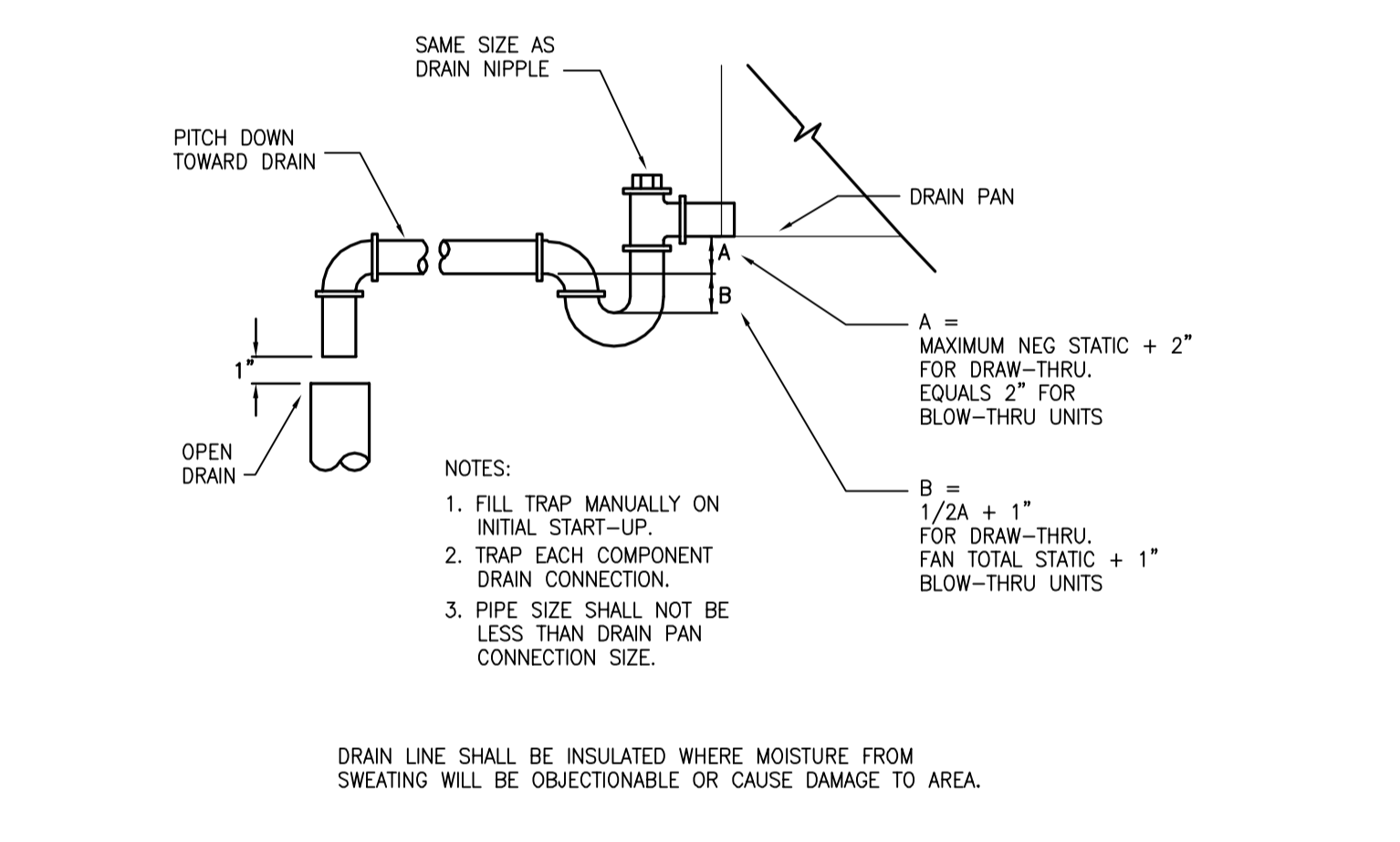
9 PAVILION #2 VENTILATION CONTROL SCHEMATIC  
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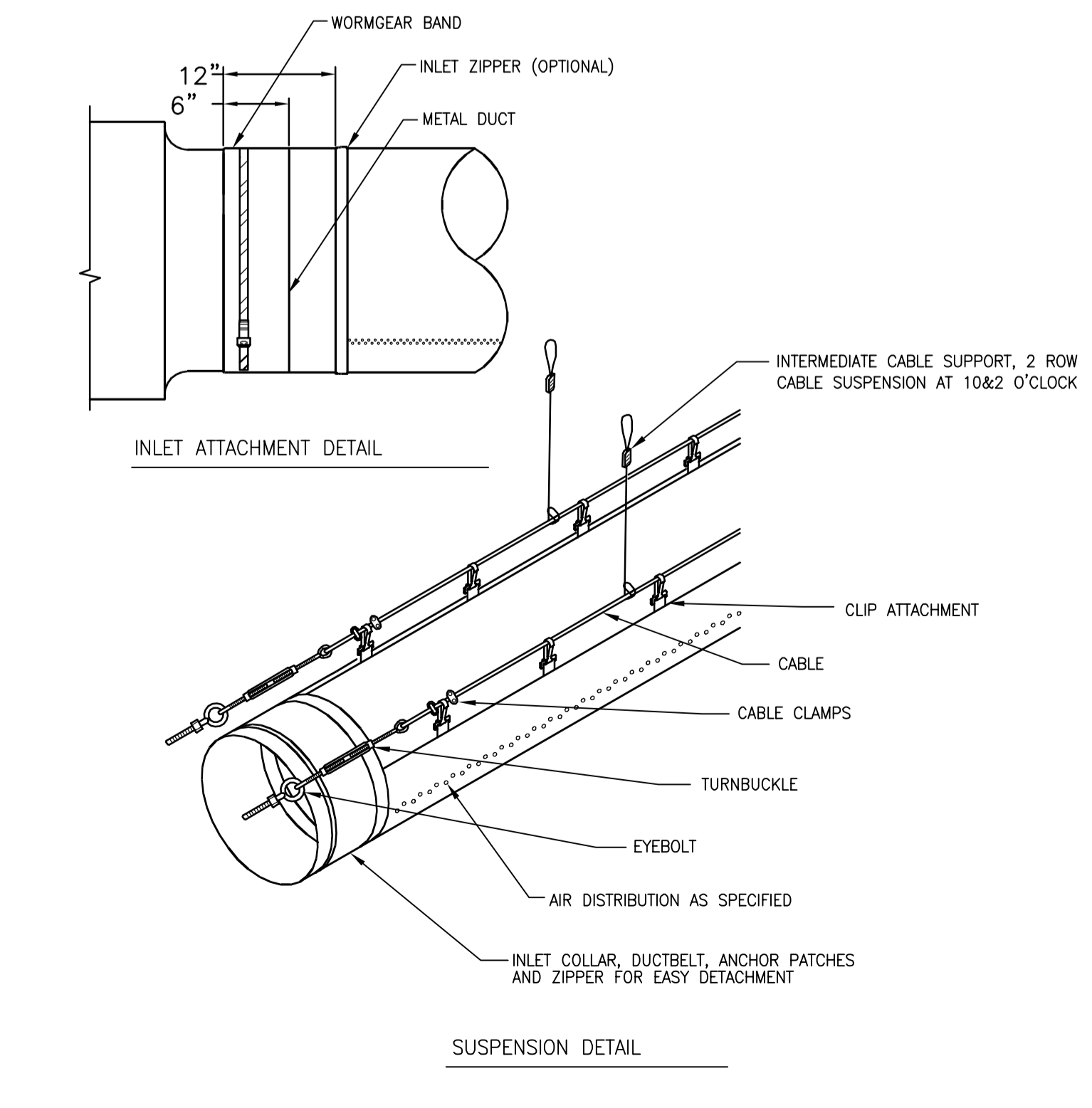
10 PRE-FUNCTION HVAC CONTROL SCHEMATIC  
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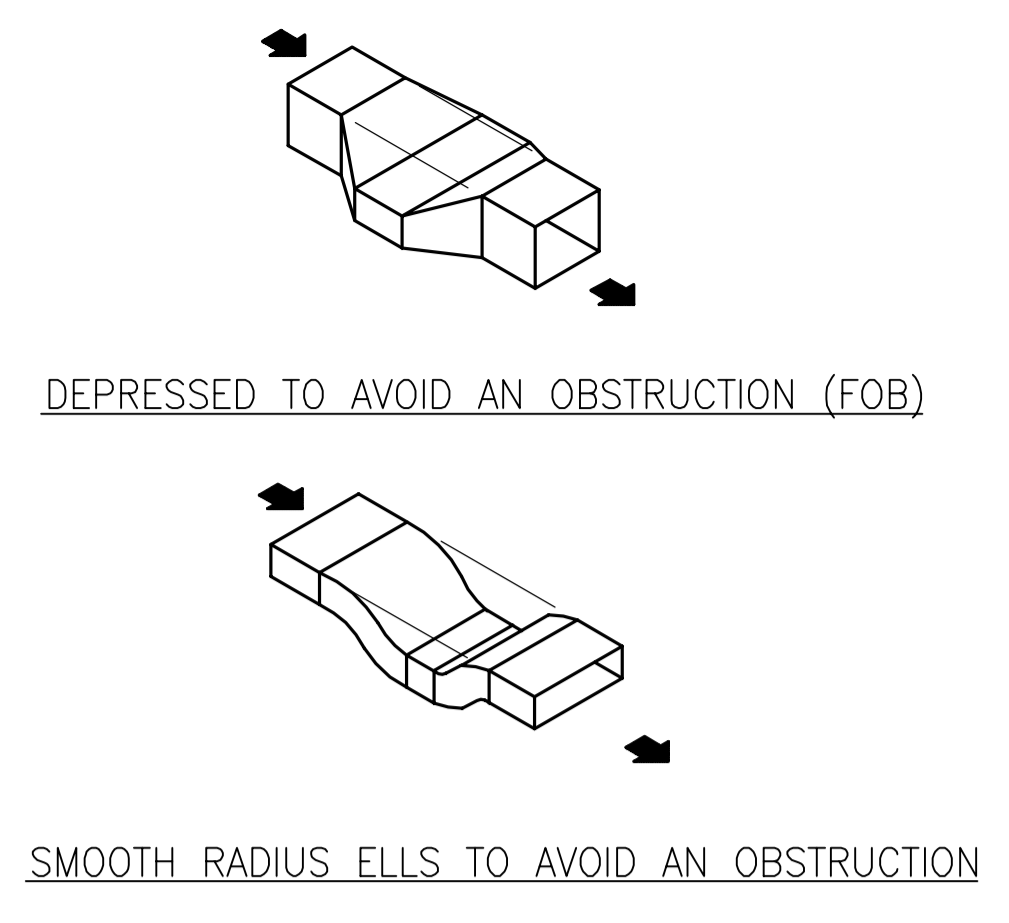
5 FURNACE DETAIL  
SCALE: N.T.S.



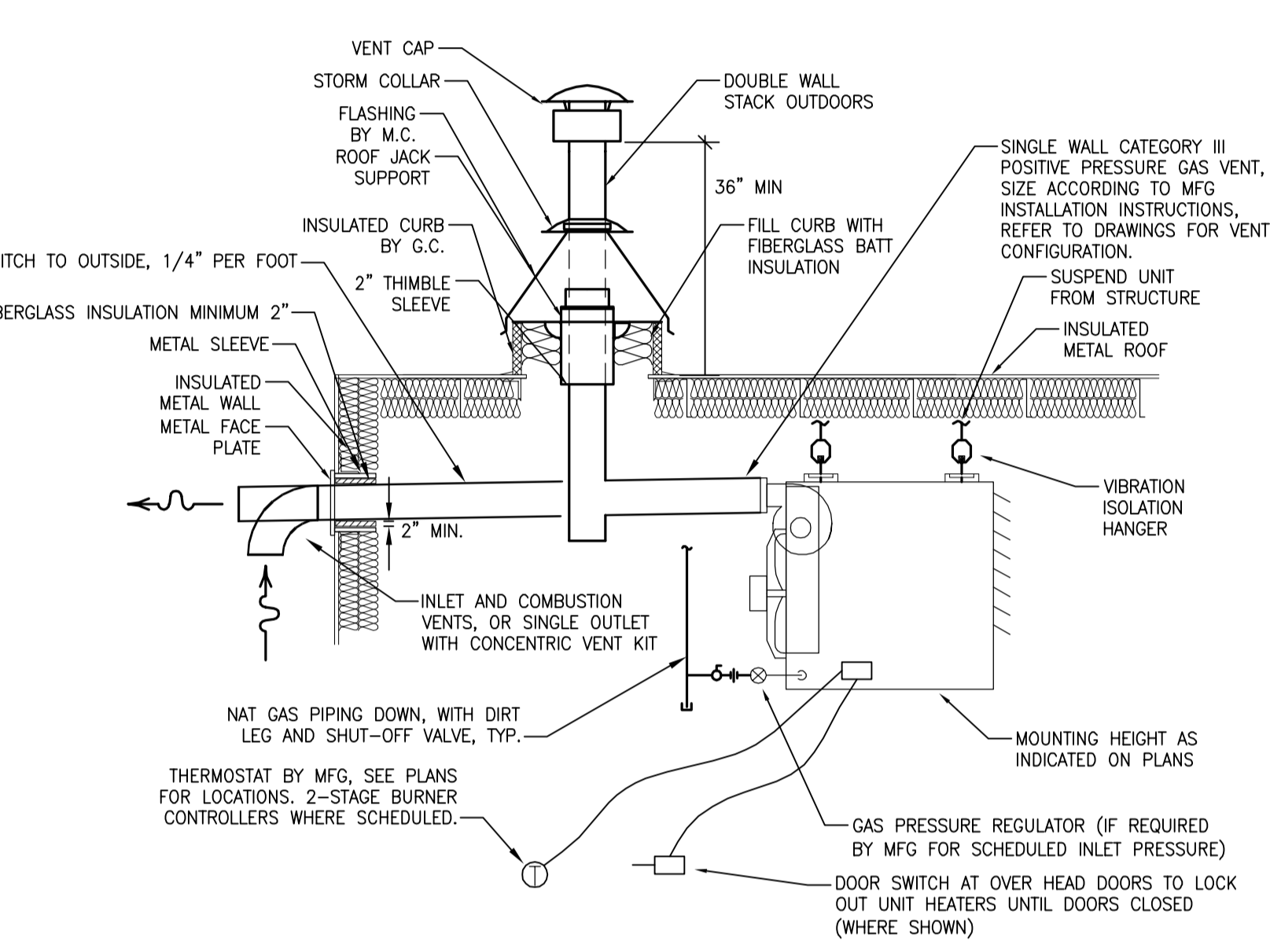
6 FURNACE CONDENSATE DRAIN TRAP  
SCALE: N.T.S.



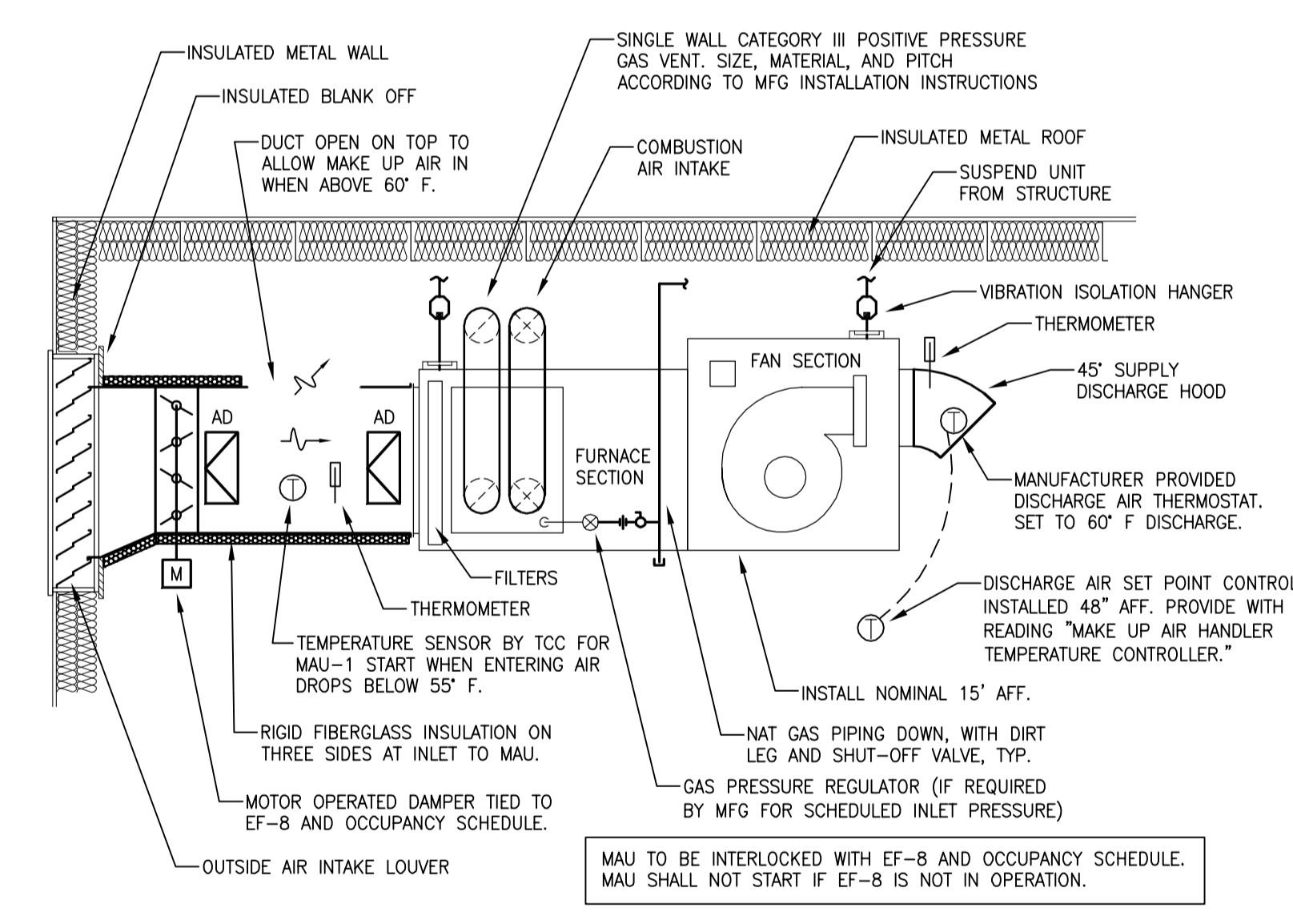
7 FABRIC DIFFUSER DETAIL  
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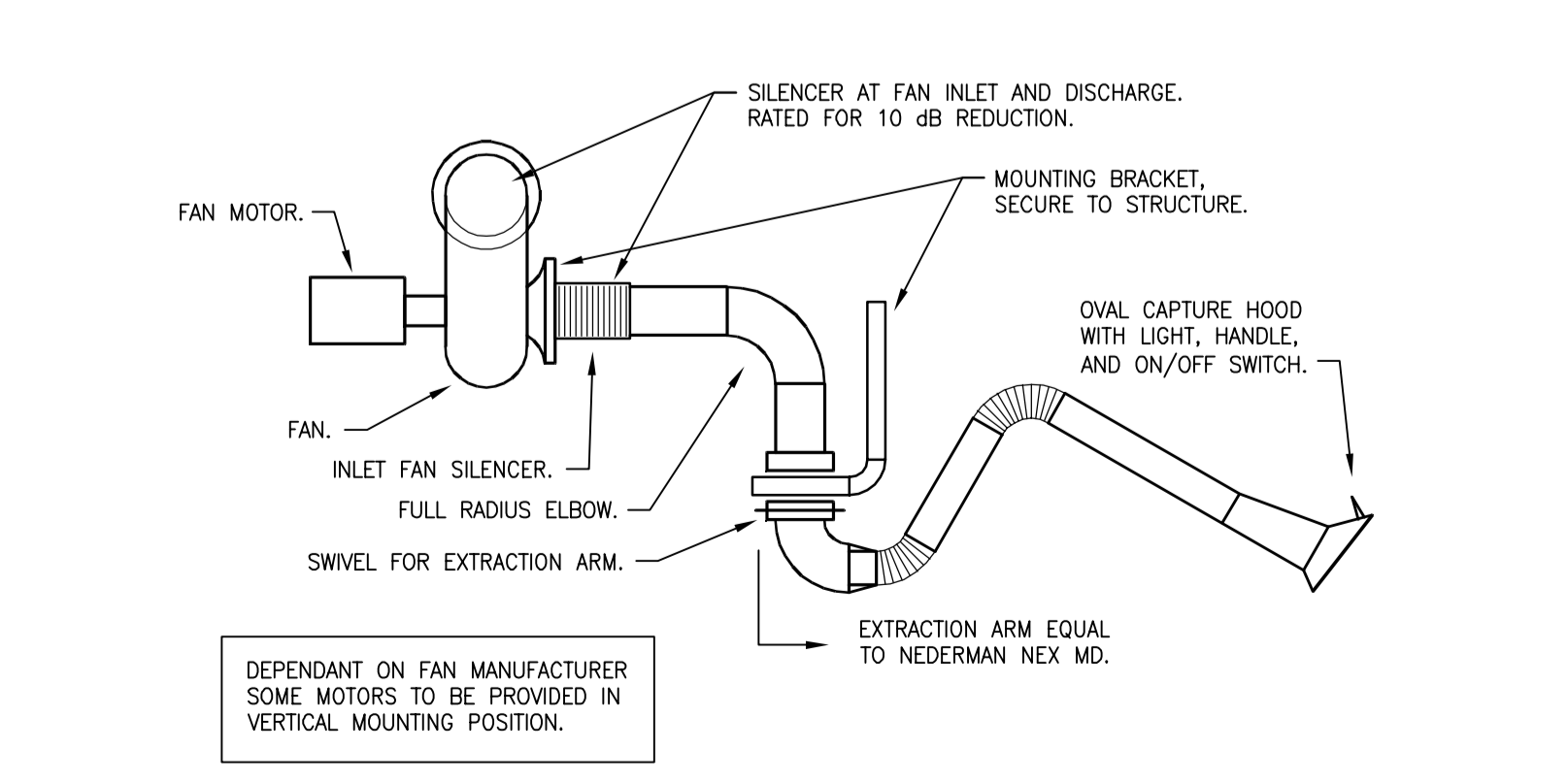
1 DUCT OBSTRUCTION DETAILS  
SCALE: N.T.S.



2 POWER VENTED GAS FIRED UNIT HEATER DETAIL  
SCALE: N.T.S.



3 MAINTENANCE BUILDING GAS FIRED MAKE UP AIR UNIT DETAIL  
SCALE: N.T.S.



4 WELDING EXHAUST DETAIL  
SCALE: N.T.S.

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ALLIANT ENERGY CENTER PAVILIONS  
BID # 313072

1919 ALLIANT ENERGY CENTER WAY  
MADISON, WISCONSIN 53713

SHEET TITLE

HVAC DETAILS

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