ALLIANT ENERGY CENTER PAVILIONS

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

CONSTRUCTION DOCUMENTS

County Bid No.:313072
Strang Project No.: 2013027_02

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

STRANG INC.
6411 MINERAL POINT ROAD
MADISON, WI 53705-4395

T/ 608 276 9200
F/ 608 276 9204

Site Location Map

SITE

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.

Project Image

Note: Artistic Rendering (Not for takeoffs or bidding)

Stamps

Architectural

Mechanical

Civil

Plumbing

Structural

Electrical

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PROJECT TITLE

ALLIANT ENERGY
CENTER PAVILIONS
BID # 313072

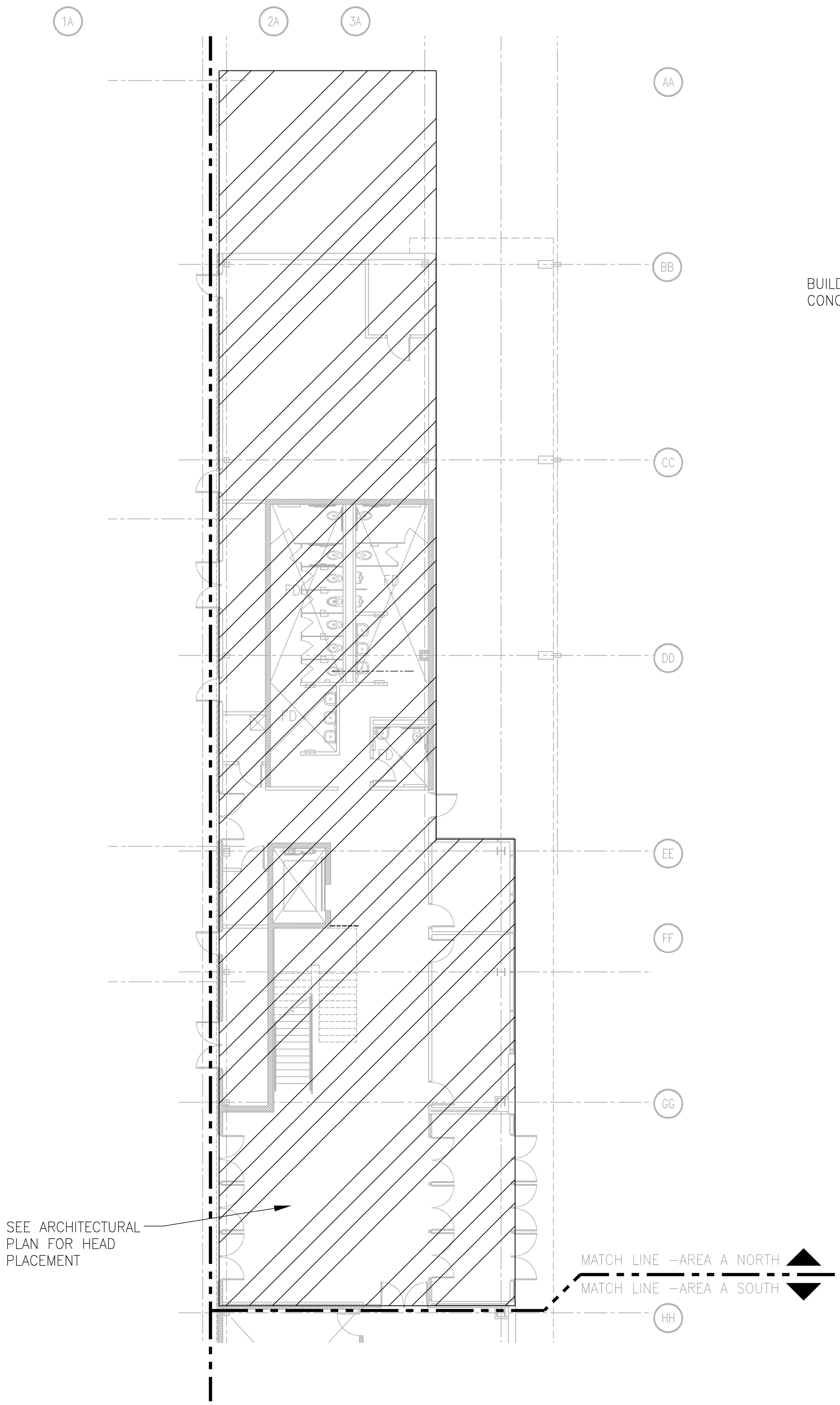
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

TITLE SHEET -
VOLUME TWO

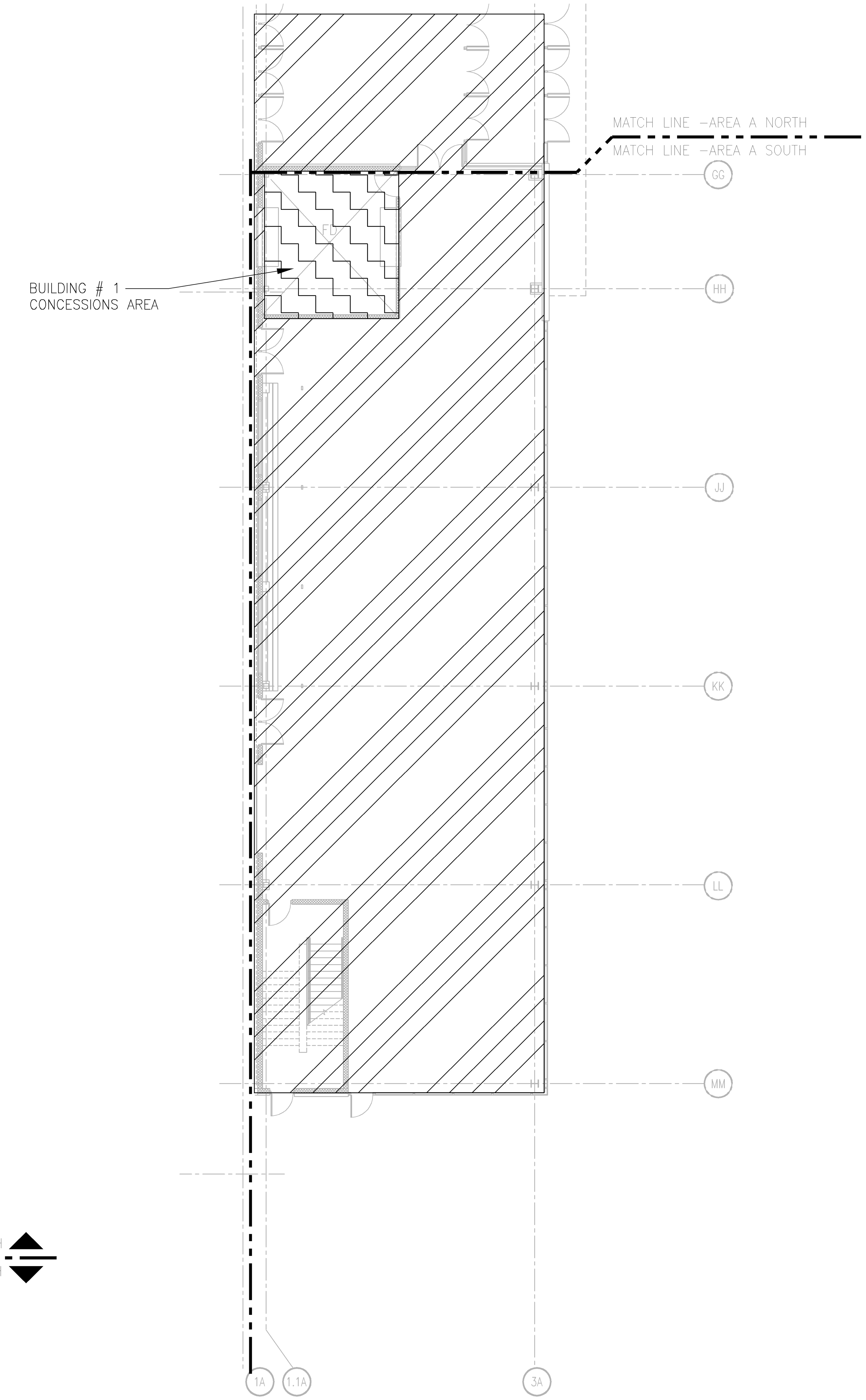
SHEET NO.

TS02



1 FP201A FIRST FLOOR FIRE PROTECTION PLAN – AREA A NORTH

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



2 FP201A FIRST FLOOR FIRE PROTECTION PLAN – AREA A SOUTH

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

FIRE PROTECTION NOTES

LIGHT HAZARD – REMODELED AREA 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.

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)

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 AHJ PRIOR TO START OF ANY NEW WORK. APPROVED PLANS SHALL BE SENT TO ARCHITECT.

STRANG

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

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ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

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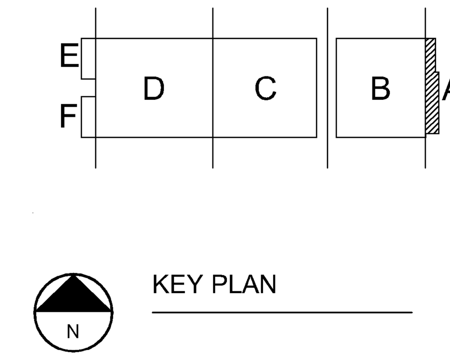
MADISON, WI 53713



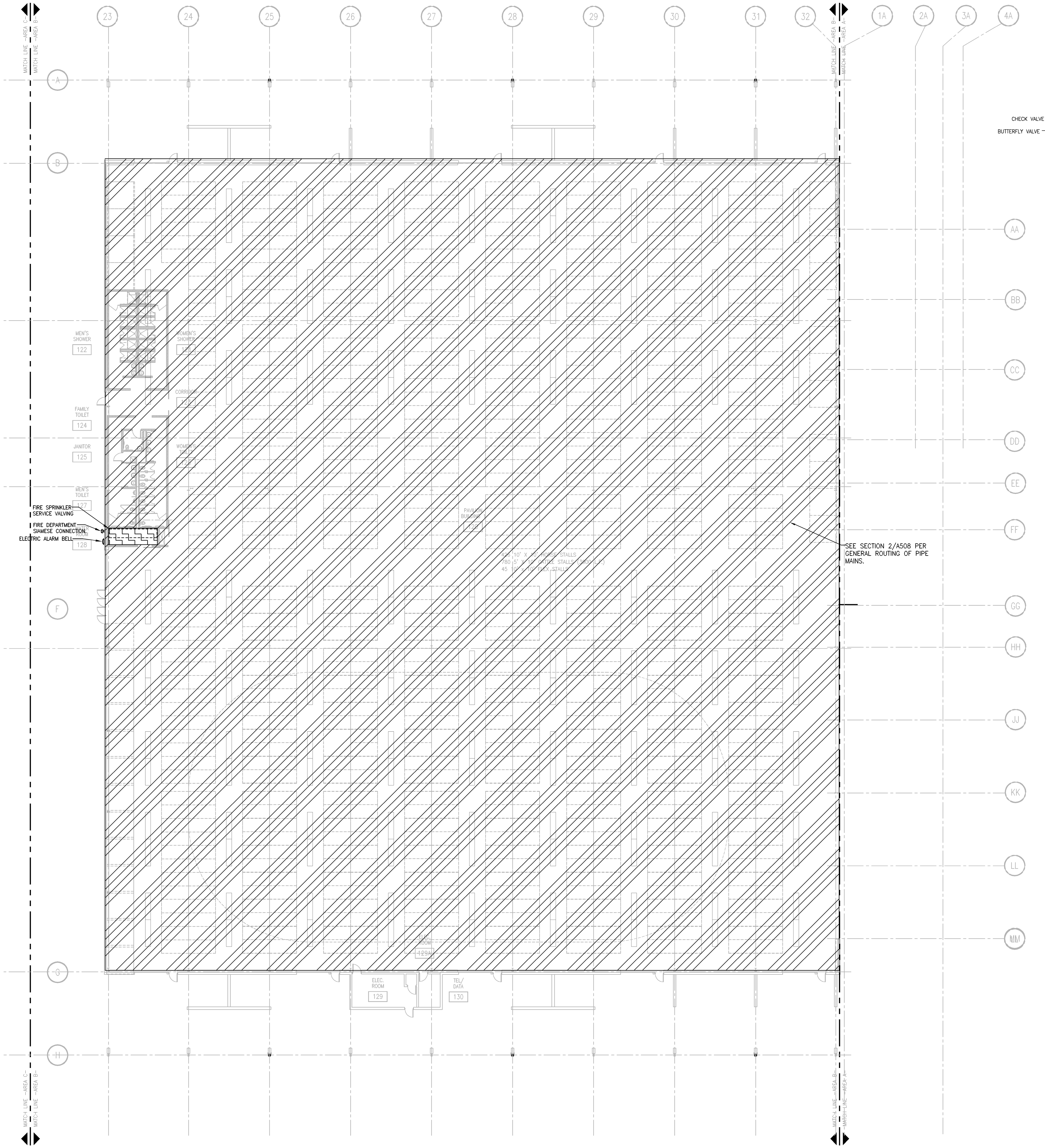
KEY PLAN

SHEET TITLE

FIRST FLOOR FIRE PROTECTION PLAN AREA A- BLD 1

SHEET NO.

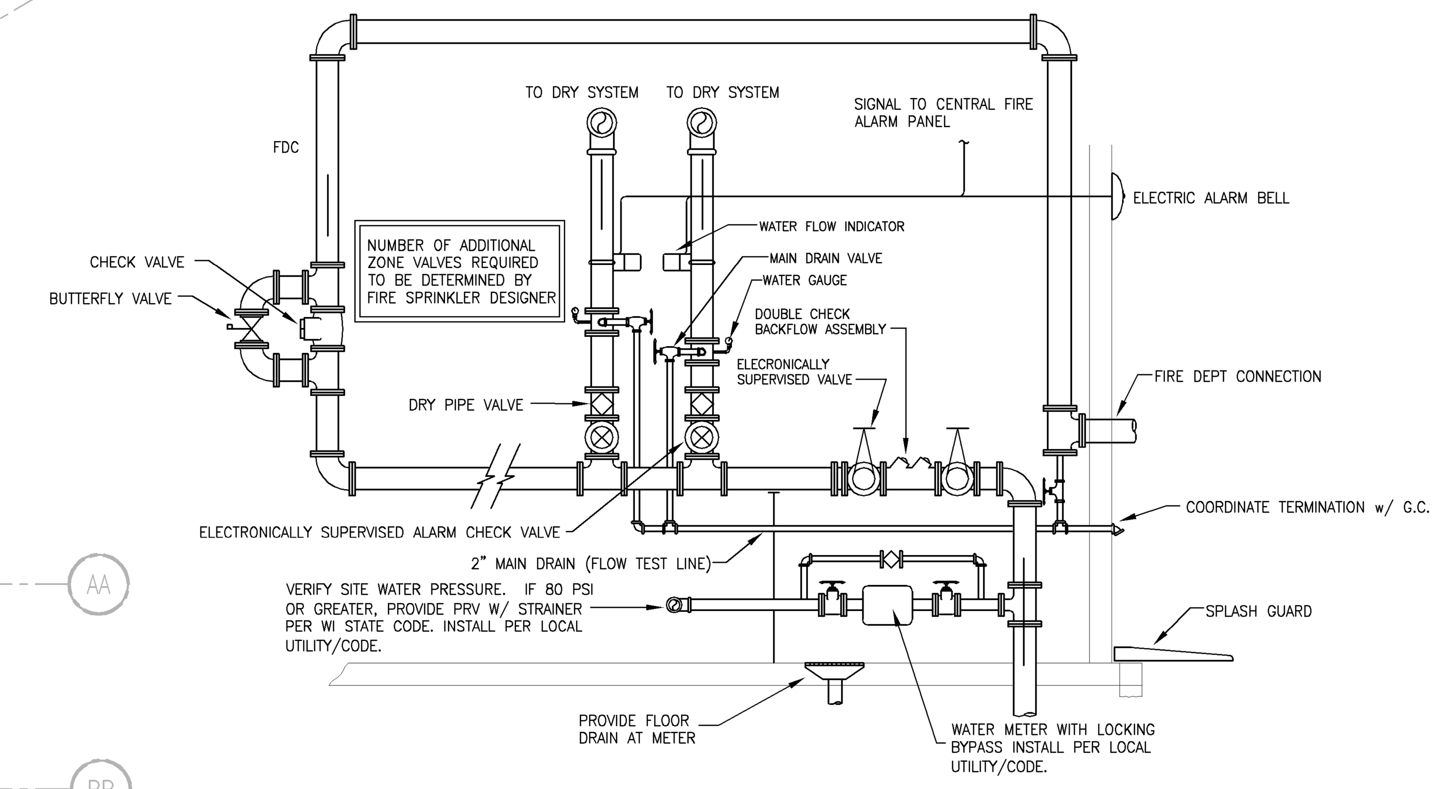
FP201A



1
FP201B

FIRST FLOOR FIRE PROTECTION PLAN – AREA B

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



2
FP201B

RISER DETAIL

SCALE: NONE

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MADISON, WI 53705–4395

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FIRE PROTECTION NOTES

LIGHT HAZARD – REMODELED AREA
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.

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)

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 AHJ PRIOR TO START OF ANY NEW WORK. APPROVED PLANS SHALL BE SENT TO ARCHITECT.

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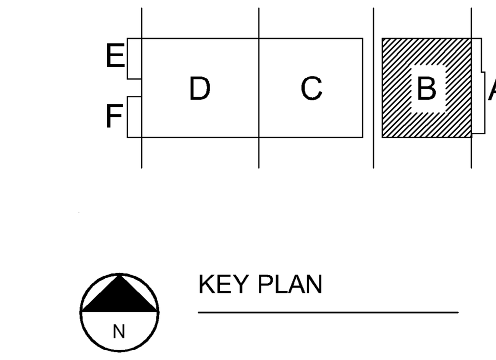


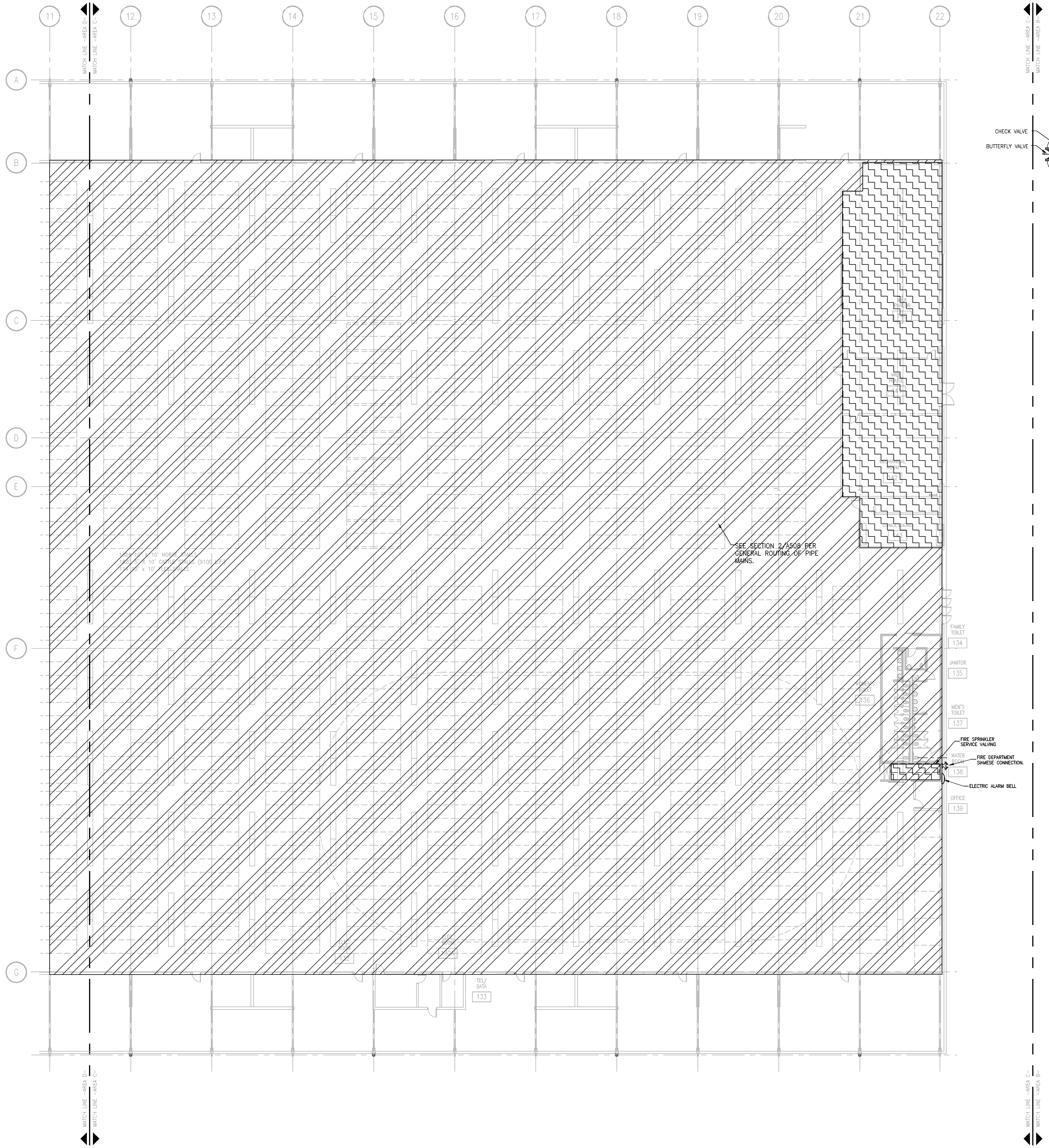
KEY PLAN

SHEET TITLE

FIRST FLOOR FIRE PROTECTION PLAN AREA B - BLD 1

SHEET NO.

FP201B

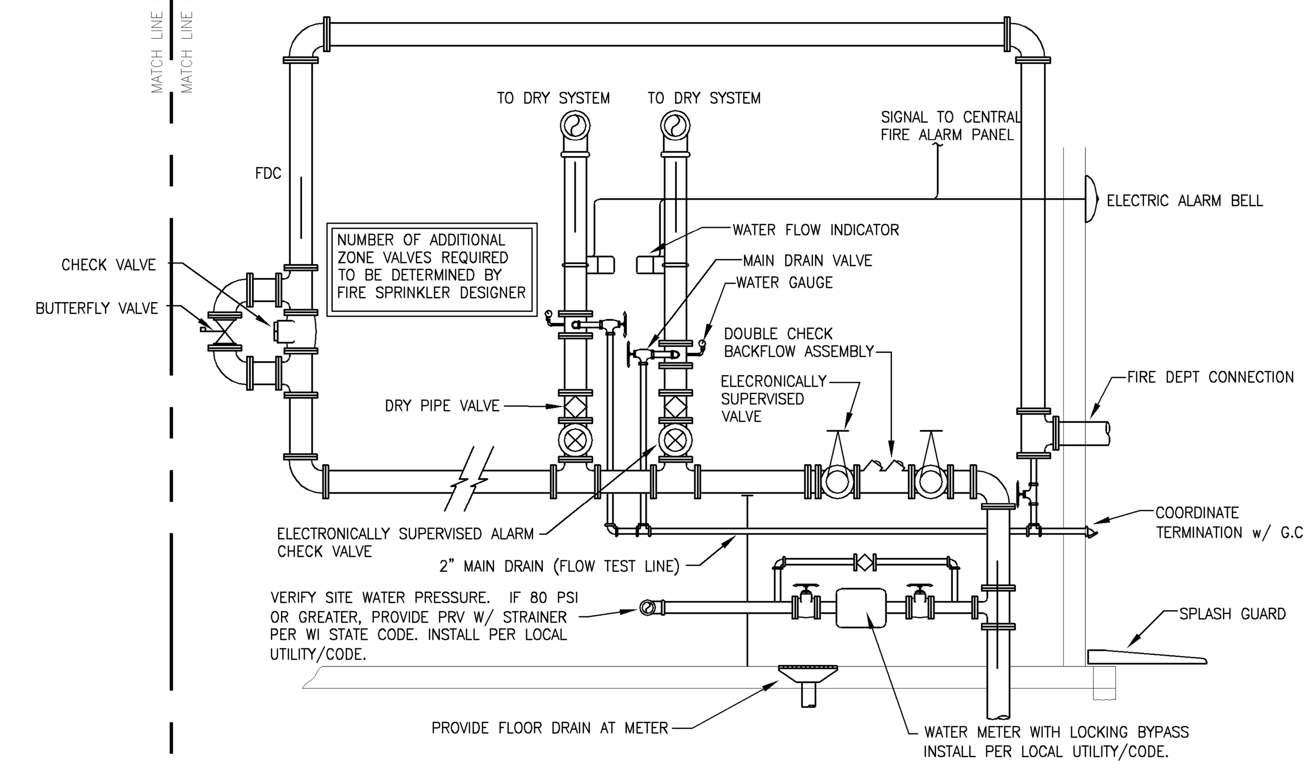


N

1 FP201C

FIRST FLOOR FIRE PROTECTION PLAN – AREA C

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



2 FP201B

RISER DETAIL

SCALE: NONE

FIRE PROTECTION NOTES

LIGHT HAZARD – REMODELED AREA
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 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.

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.

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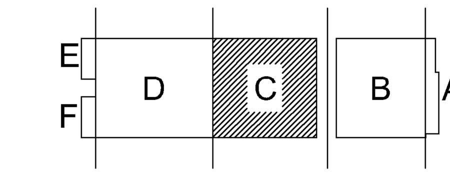


KEY PLAN

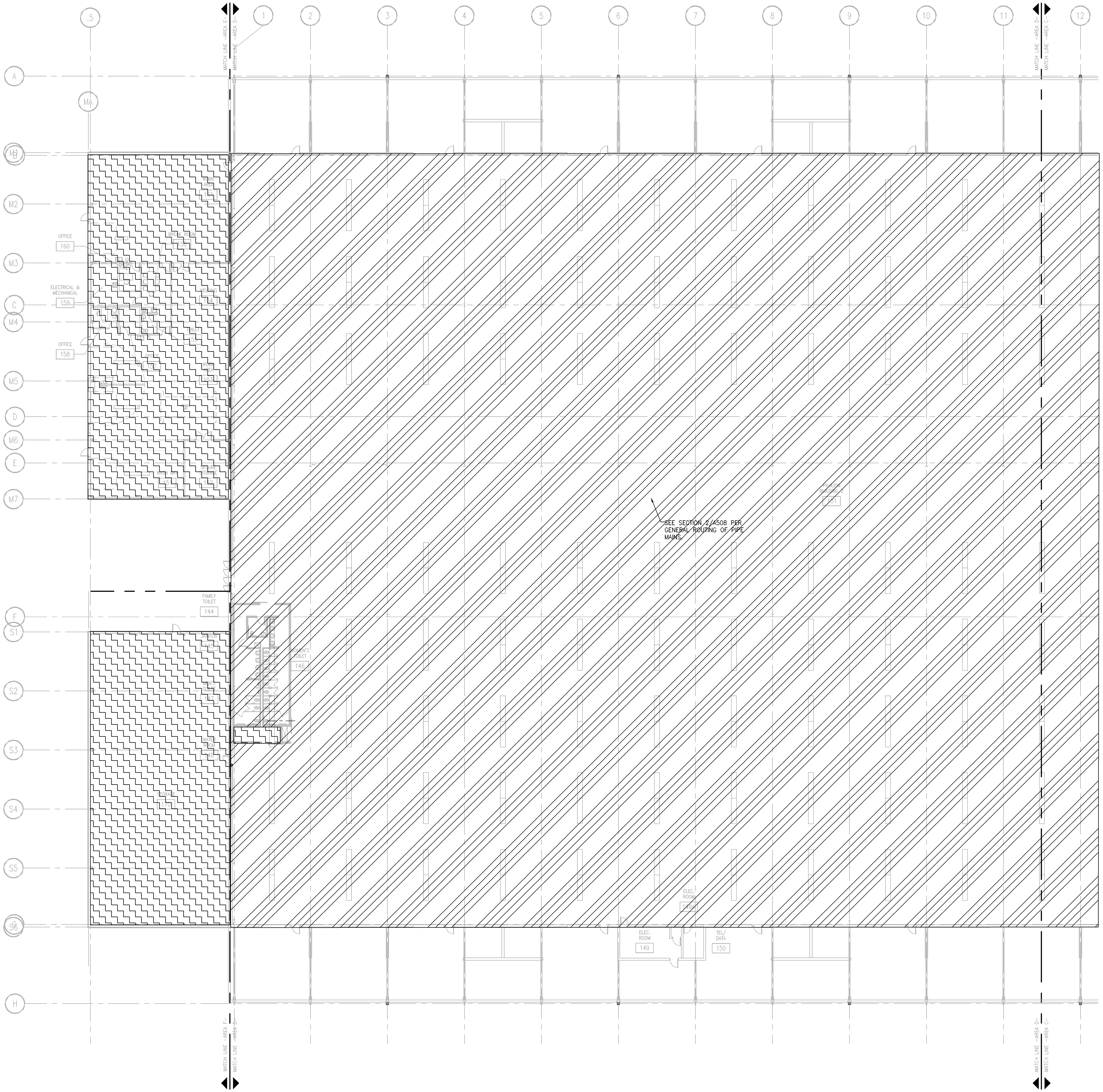
SHEET TITLE

FIRST FLOOR FIRE PROTECTION PLAN AREA C - BLD 2

SHEET NO.

FP201C

DON SCHUMACHER 2009-6-30 2:27 PM K:_2013\2013027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALL\DRAWINGS\2013027_02-FP201C.DWG



FIRST FLOOR FIRE PROTECTION PLAN – AREA D, E, & F

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

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 – REMODELED AREA
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 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.

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 AHJ PRIOR TO START OF ANY NEW WORK. APPROVED PLANS SHALL BE SENT TO ARCHITECT.

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CHECKED	RG
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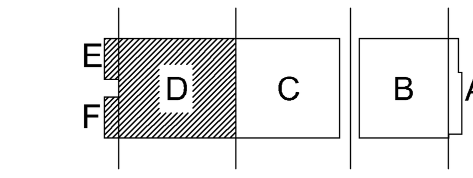
PROJECT NO.	2013027_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



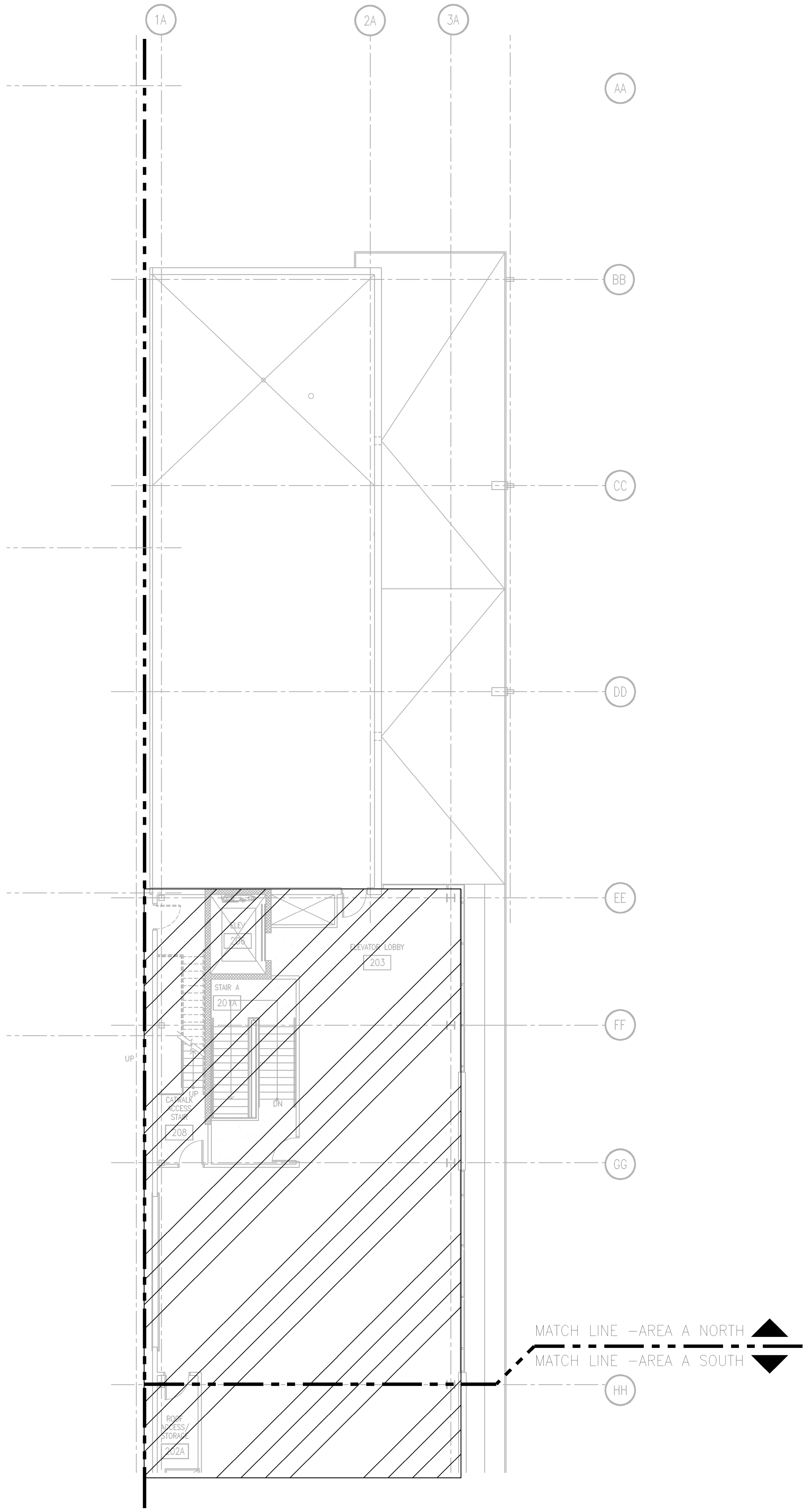
KEY PLAN

SHEET TITLE

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

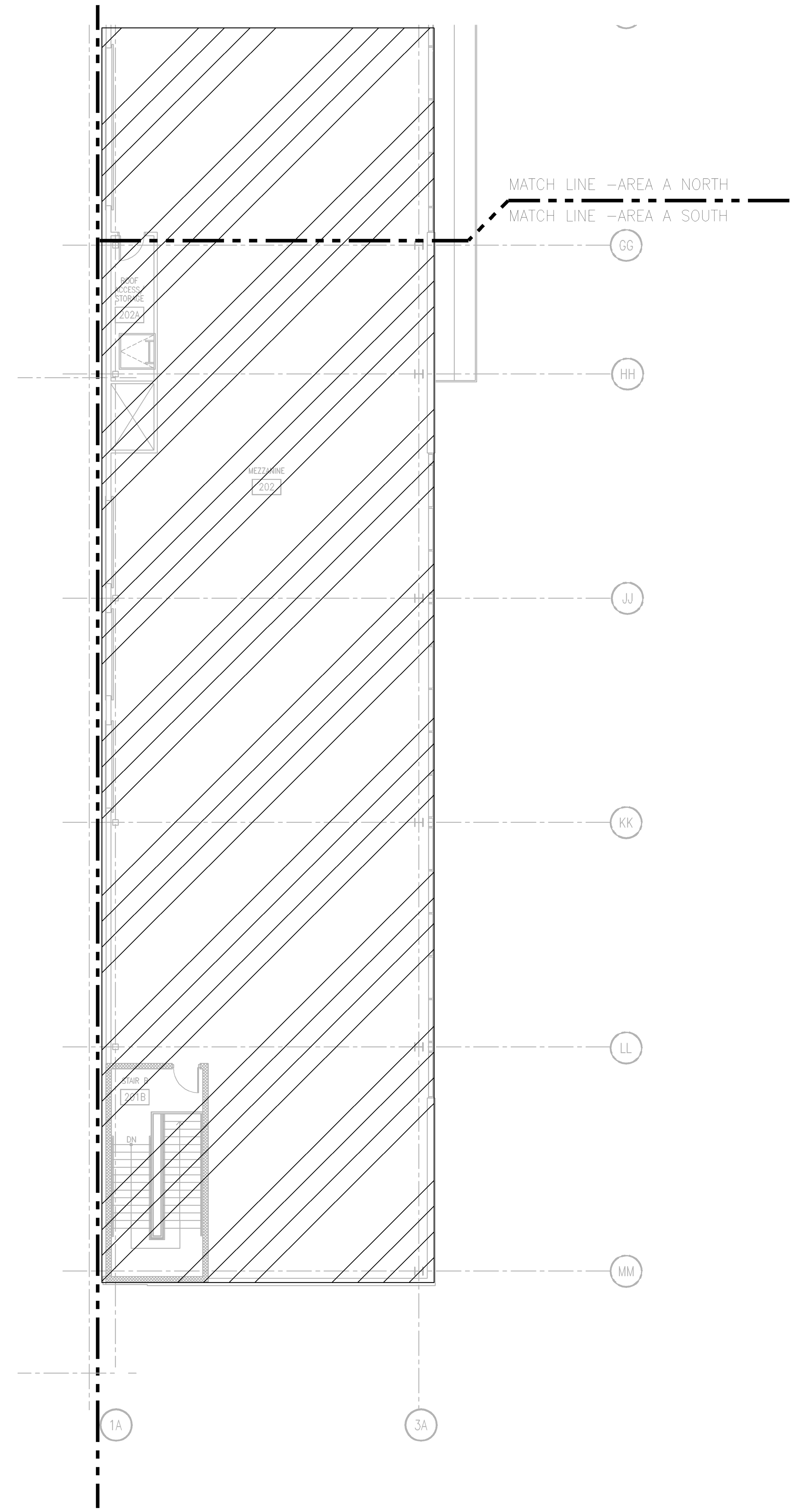
SHEET NO.

FP201D



1 FP202A MEZZANINE FIRE PROTECTION PLAN – AREA A – NORTH

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



2 FP202A MEZZANINE FIRE PROTECTION PLAN – AREA A – SOUTH

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

FIRE PROTECTION NOTES

LIGHT HAZARD – REMODELED AREA 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.

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 AHJ PRIOR TO START OF ANY NEW WORK. APPROVED PLANS SHALL BE SENT TO ARCHITECT.

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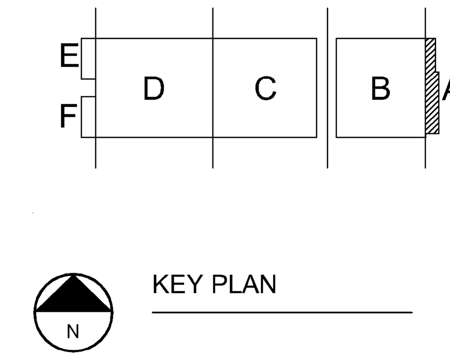
PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



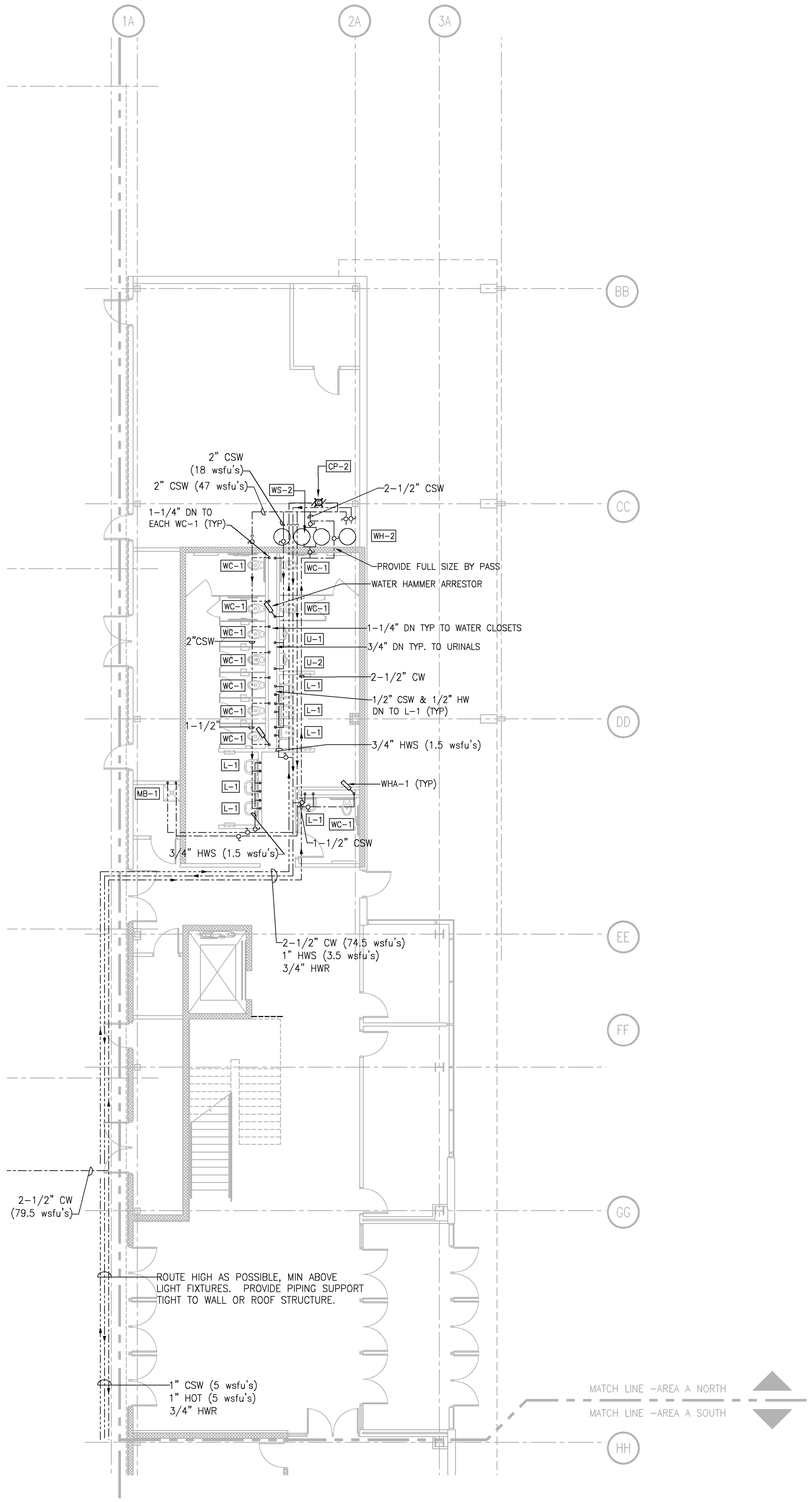
KEY PLAN

SHEET TITLE

MEZZANINE FIRE PROTECTION PLAN AREA A - BLD 1

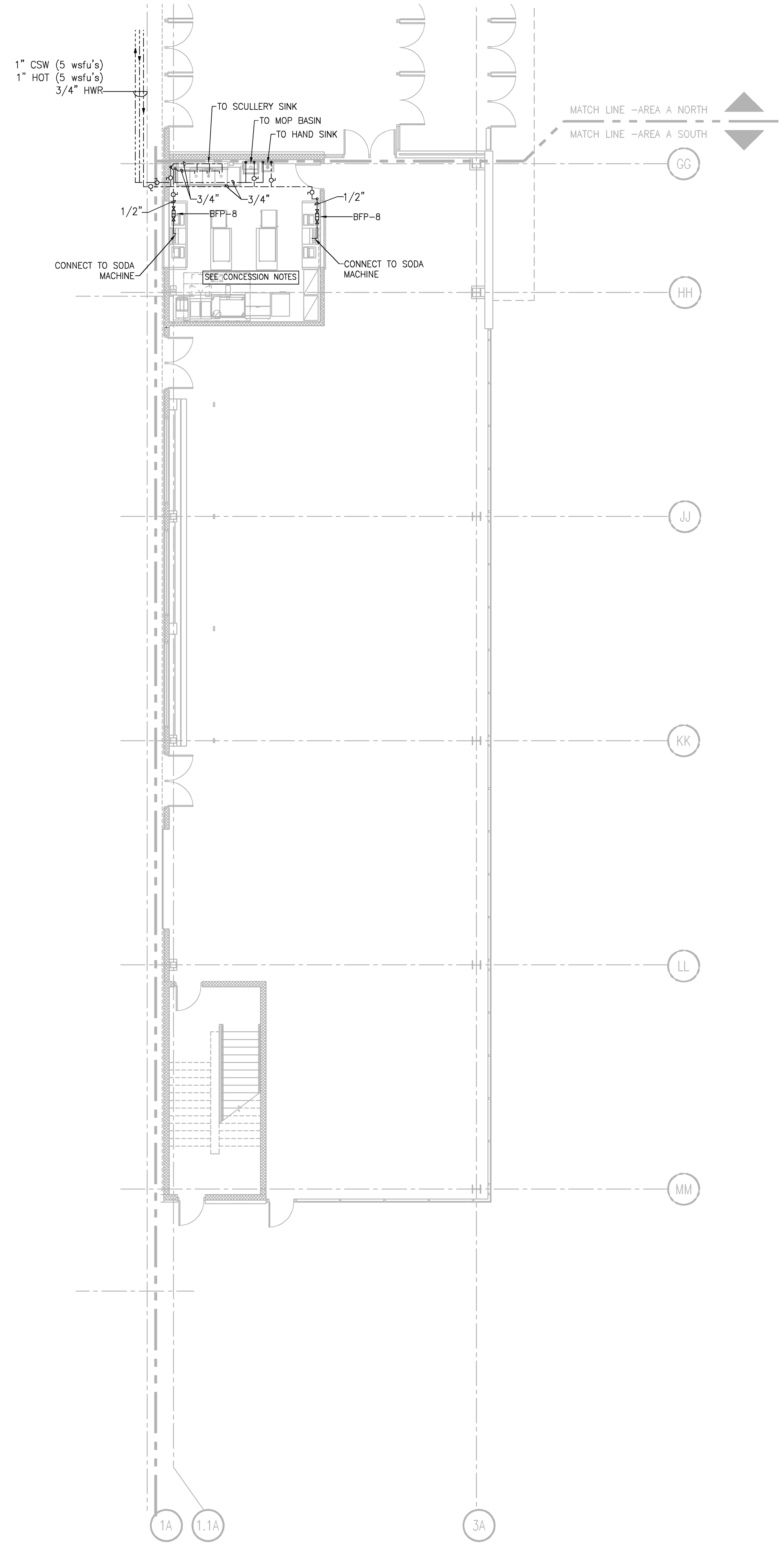
SHEET NO.

FP202A



1 P201AS FIRST FLOOR PLUMBING SUPPLY PLAN – AREA A NORTH

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



2 P201AS FIRST FLOOR PLUMBING SUPPLY PLAN – AREA A SOUTH

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

	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 ACESSIBLE 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.

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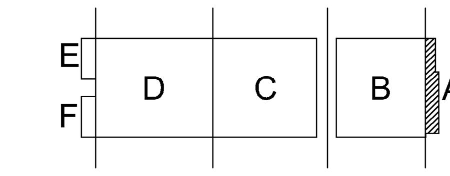
PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



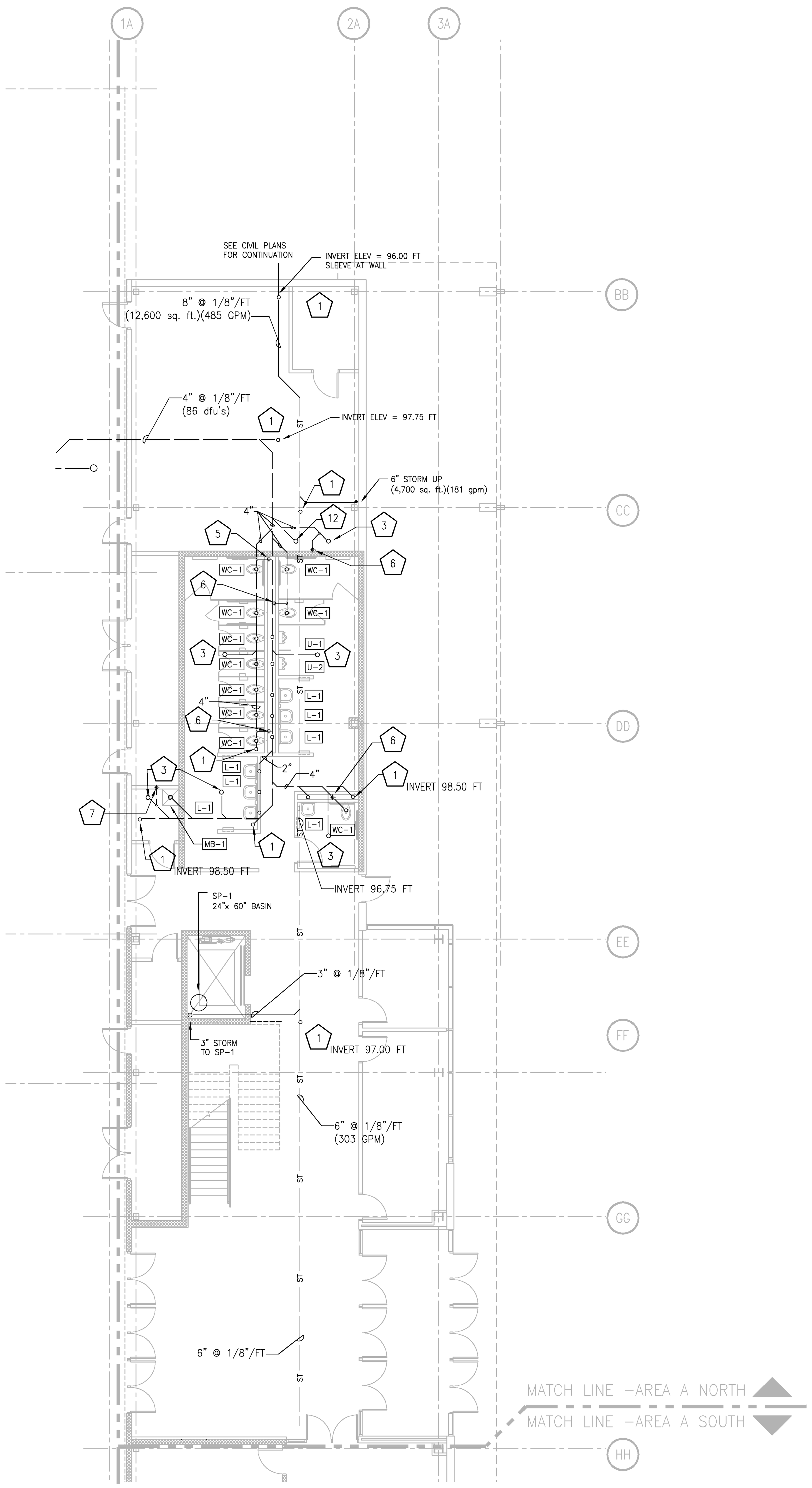
KEY PLAN

SHEET TITLE

FIRST FLOOR PLUMBING SUPPLY PLAN AREA A - BLD 1

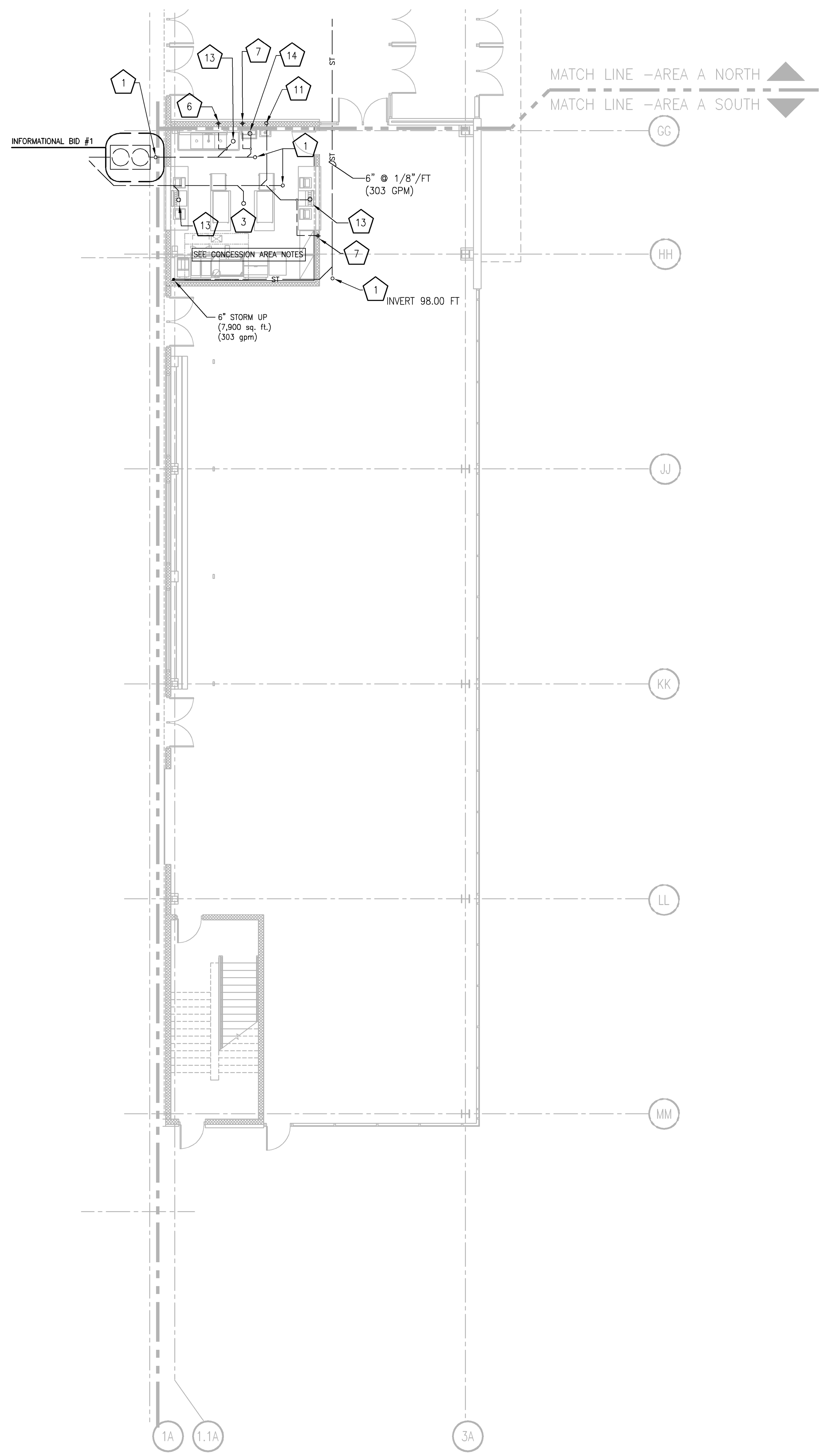
SHEET NO.

P201A-S



FIRST FLOOR PLUMBING UNDERSLAB PLAN – AREA A NORTH

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



FIRST FLOOR PLUMBING UNDERSLAB PLAN – AREA A SOUTH

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

	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	16,200 SQFT, 623 GPM. 8" VERTICAL STORM, 8" @ $\frac{1}{8}$"/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	13,500 SQFT, 519 GPM. 6" VERTICAL STORM, 8" @ $\frac{1}{8}$"/FT HORIZONTAL STORM. SEE NOTE 8.
10	18,900 SQFT, 726 GPM. 8" VERTICAL STORM, 10" @ $\frac{1}{8}$"/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.

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, WI 53713

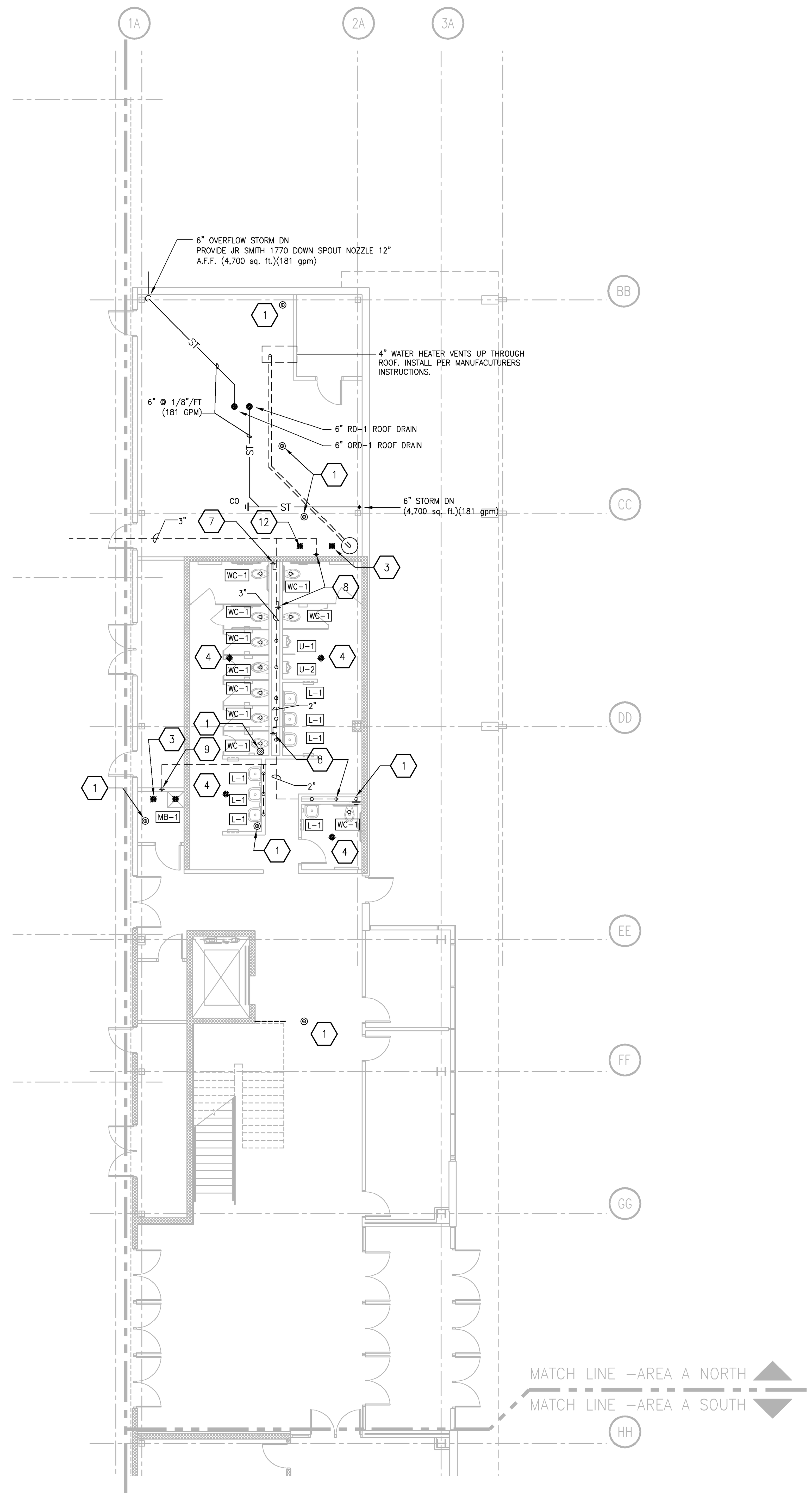
KEY PLAN

SHEET TITLE

FIRST FLOOR PLUMBING UNDERSLAB PLAN
AREA A - BLD 1

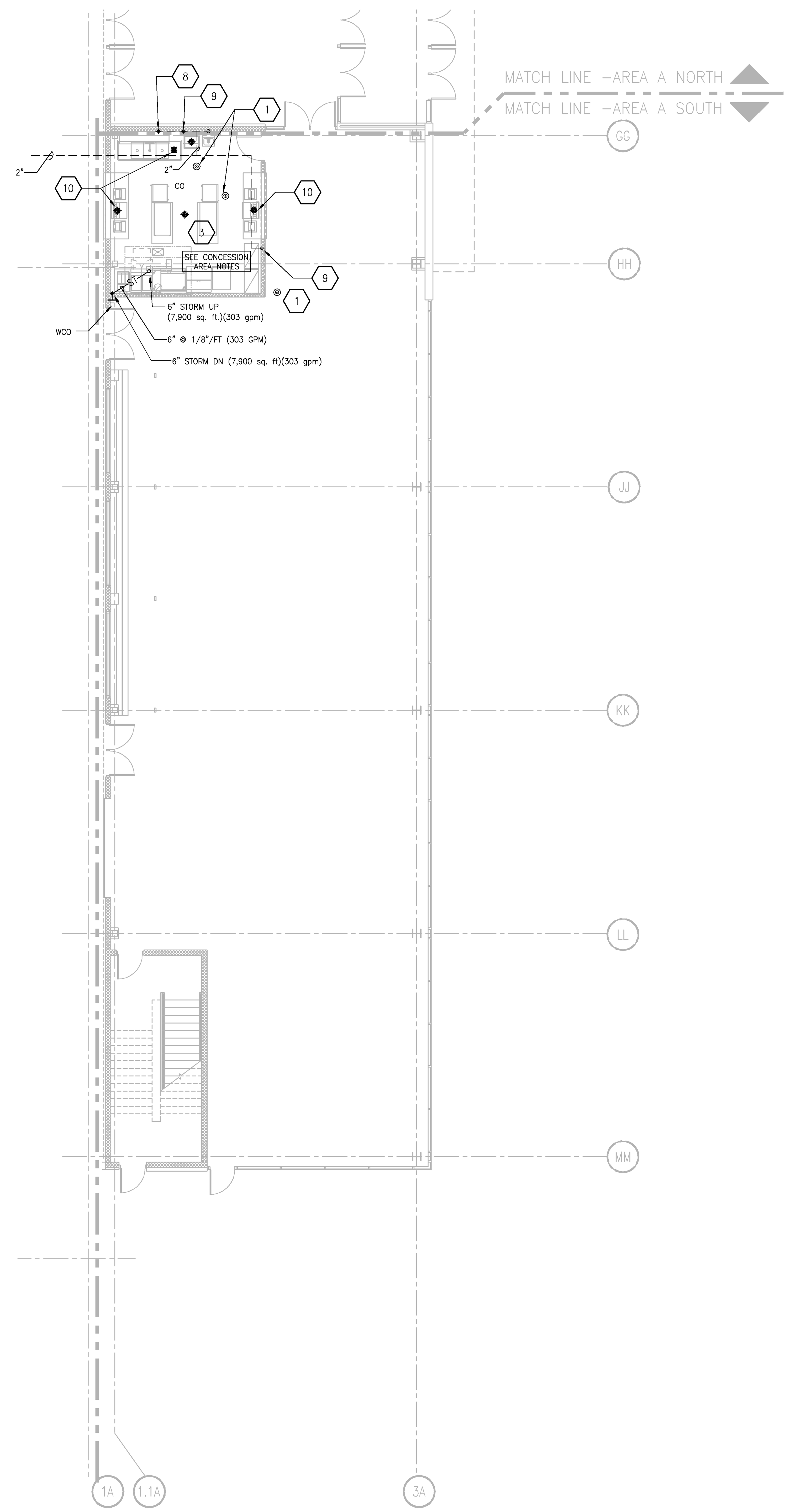
SHEET NO.

P201A-U



FIRST FLOOR PLUMBING WASTE & VENT PLAN – AREA A NORTH

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



FIRST FLOOR PLUMBING WASTE & VENT PLAN – AREA A SOUTH

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

	PLUMBING WASTE GENERAL NOTES
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHING 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, 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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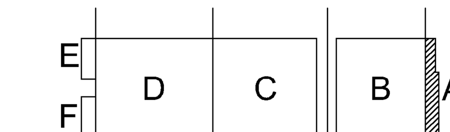
PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



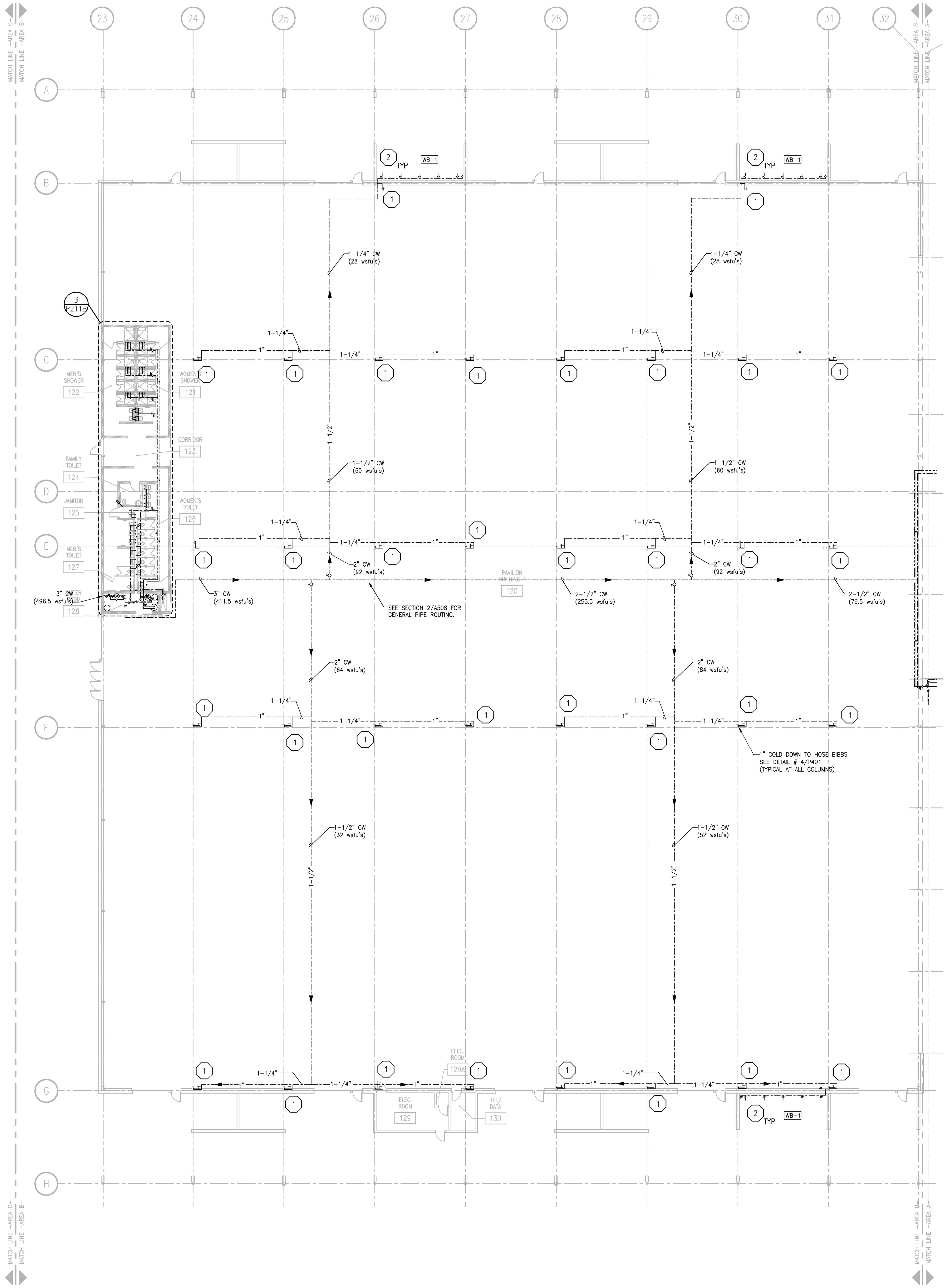
KEY PLAN

SHEET TITLE

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

SHEET NO.

P201A-W



1 P201BS FIRST FLOOR PLUMBING SUPPLY PLAN – AREA B

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

0' 4' 8' 16' 24'

	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 ACESSIBLE 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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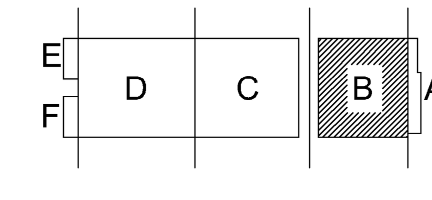
PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



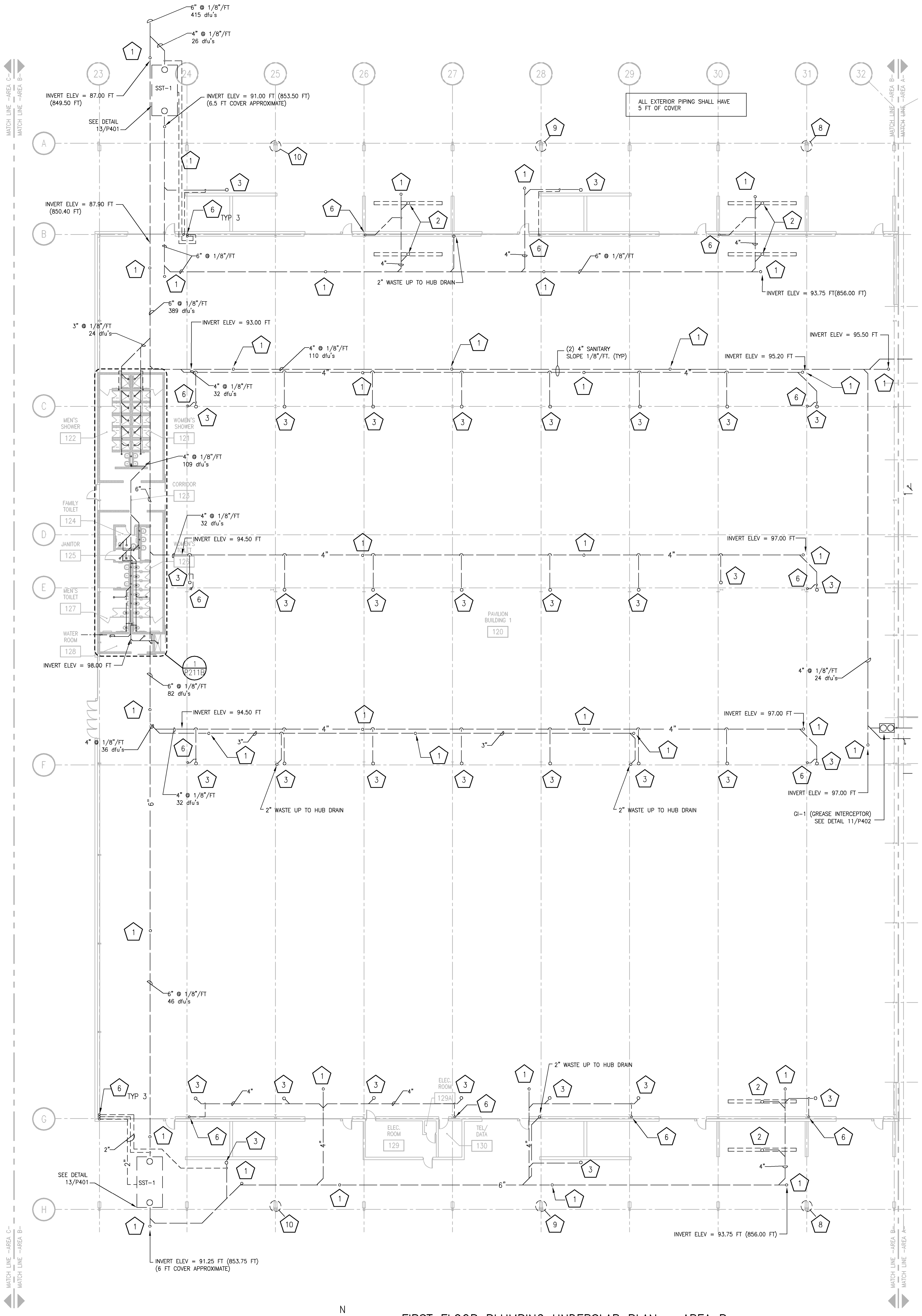
KEY PLAN

SHEET TITLE

FIRST FLOOR PLUMBING SUPPLY PLAN AREA B - BLD 1

SHEET NO.

P201B-S



FIRST FLOOR PLUMBING UNDERSLAB PLAN – AREA B
1/P201BU
SCALE: 1/16" = 1'-0"

	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	16,200 SQFT, 623 GPM. 8" VERTICAL STORM, 8" @ $\frac{1}{8}$"/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	13,500 SQFT, 519 GPM. 6" VERTICAL STORM, 8" @ $\frac{1}{8}$"/FT HORIZONTAL STORM. SEE NOTE 8.
10	18,900 SQFT, 726 GPM. 8" VERTICAL STORM, 10" @ $\frac{1}{8}$"/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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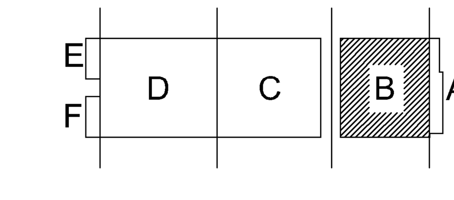
PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



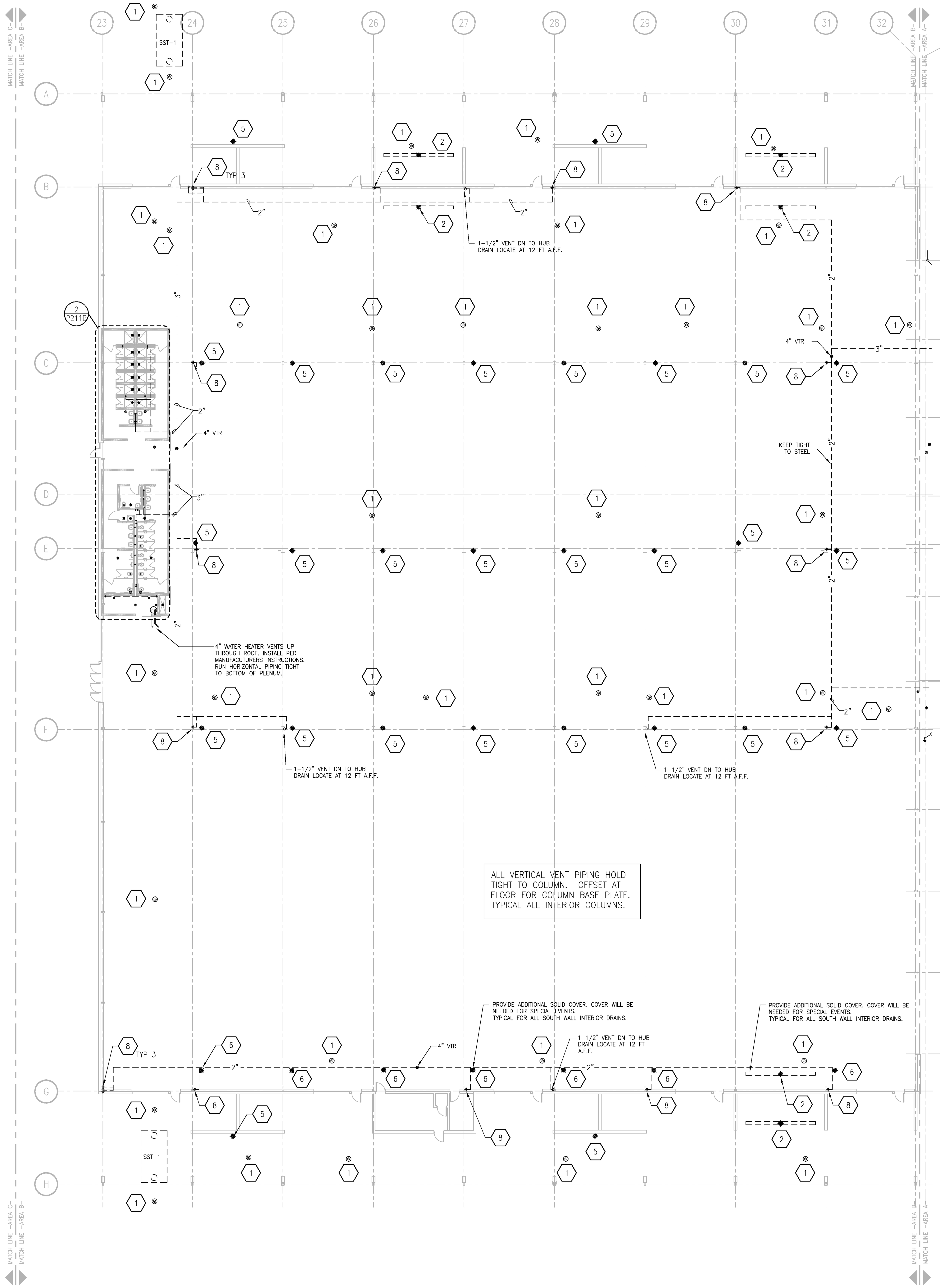
KEY PLAN

SHEET TITLE

FIRST FLOOR PLUMBING UNDERSLAB PLAN AREA B - BLD 1

SHEET NO.

P201B-U



FIRST FLOOR PLUMBING WASTE & VENT PLAN – AREA B

1 P201BW

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

0' 4' 8' 16' 24'

PLUMBING WASTE GENERAL NOTES

1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHING 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

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

KEY PLAN

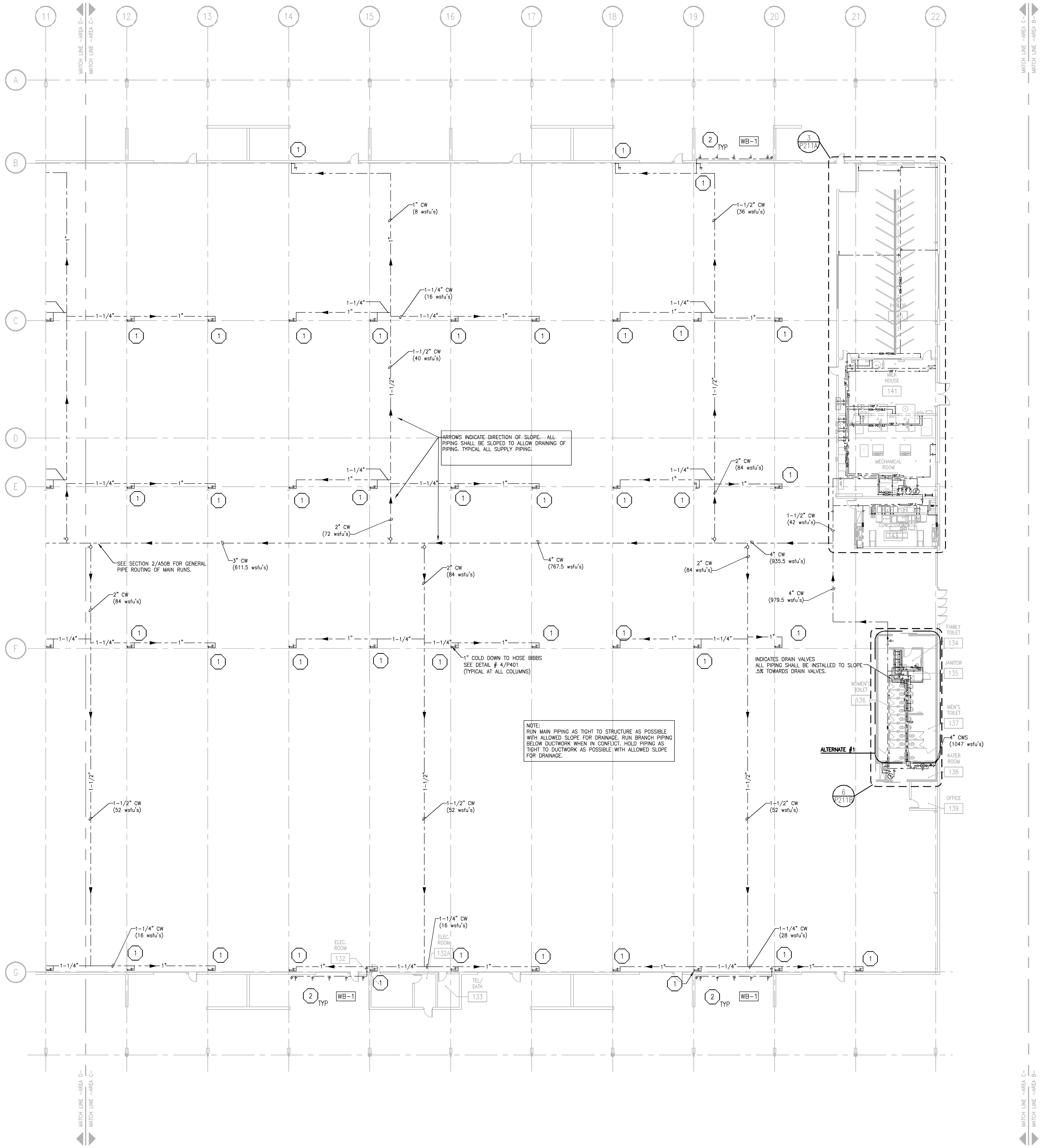
E F D C B A

SHEET TITLE

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

SHEET NO.

P201B-W



FIRST FLOOR PLUMBING SUPPLY PLAN – AREA C

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

	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 ACESSIBLE 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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PROJECT TITLE

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BID # 313072

1919 ALLIANT ENERGY CENTER WAY
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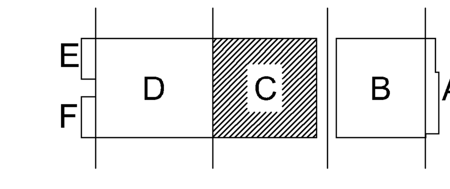


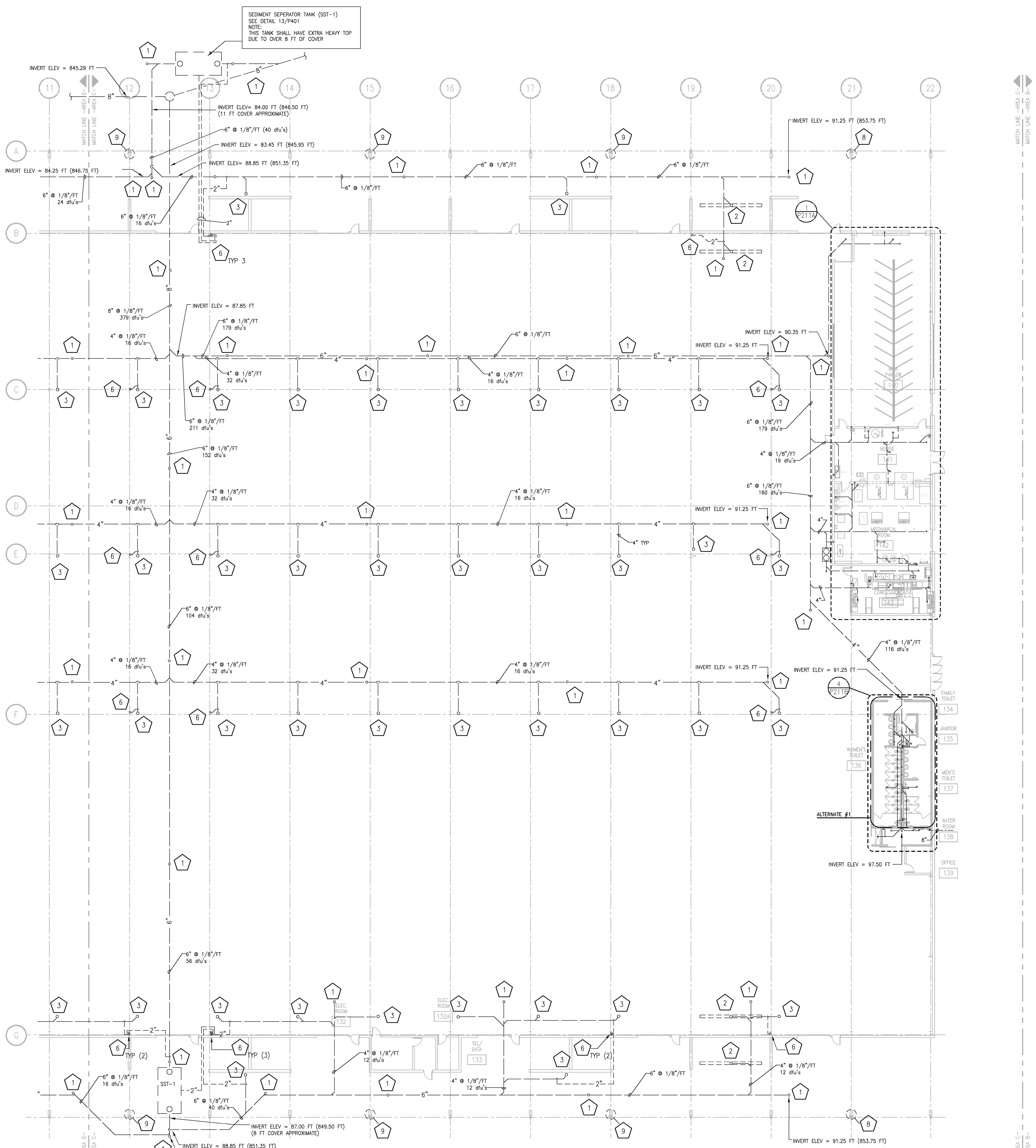
KEY PLAN

SHEET TITLE

FIRST FLOOR PLUMBING SUPPLY PLAN AREA C - BLD 2

SHEET NO.

P201C-S



FIRST FLOOR PLUMBING UNDERSLAB PLAN - AREA C

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

	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	16,200 SQFT, 623 GPM. 8" VERTICAL STORM, 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	13,500 SQFT, 519 GPM. 6" VERTICAL STORM, 8" @ 1/8"/FT HORIZONTAL STORM. SEE NOTE 8.
10	18,900 SQFT, 726 GPM. 8" VERTICAL STORM, 10" @ 1/8"/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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PROJECT TITLE

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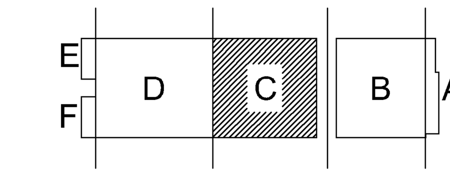
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



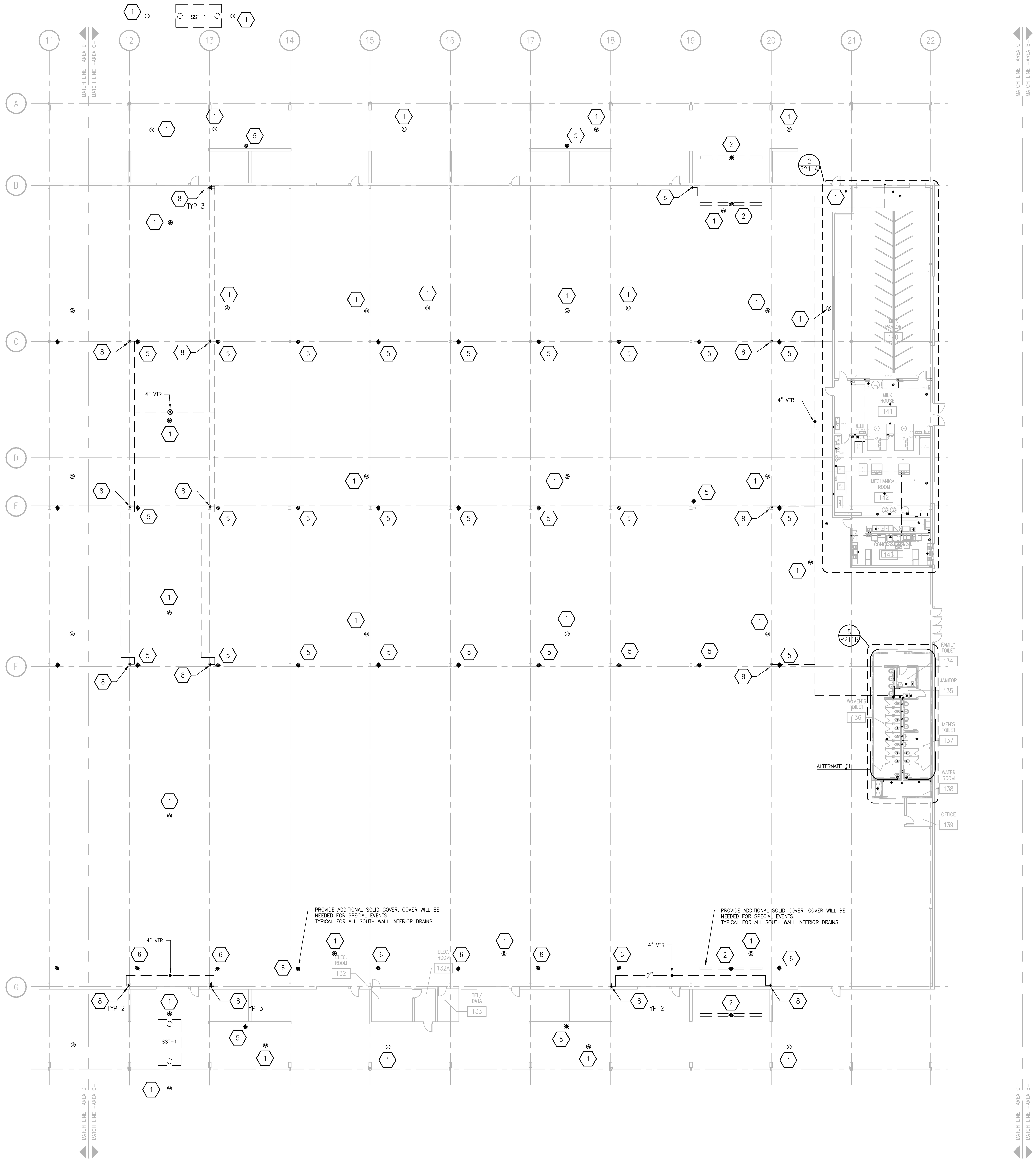
KEY PLAN

SHEET TITLE

FIRST FLOOR PLUMBING UNDERSLAB PLAN AREA C - BLD 2

SHEET NO.

P201C-U



FIRST FLOOR PLUMBING WASTE & VENT PLAN – AREA C

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

	PLUMBING WASTE GENERAL NOTES
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHING 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

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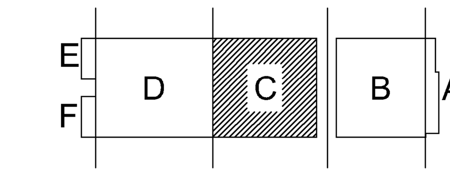
PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



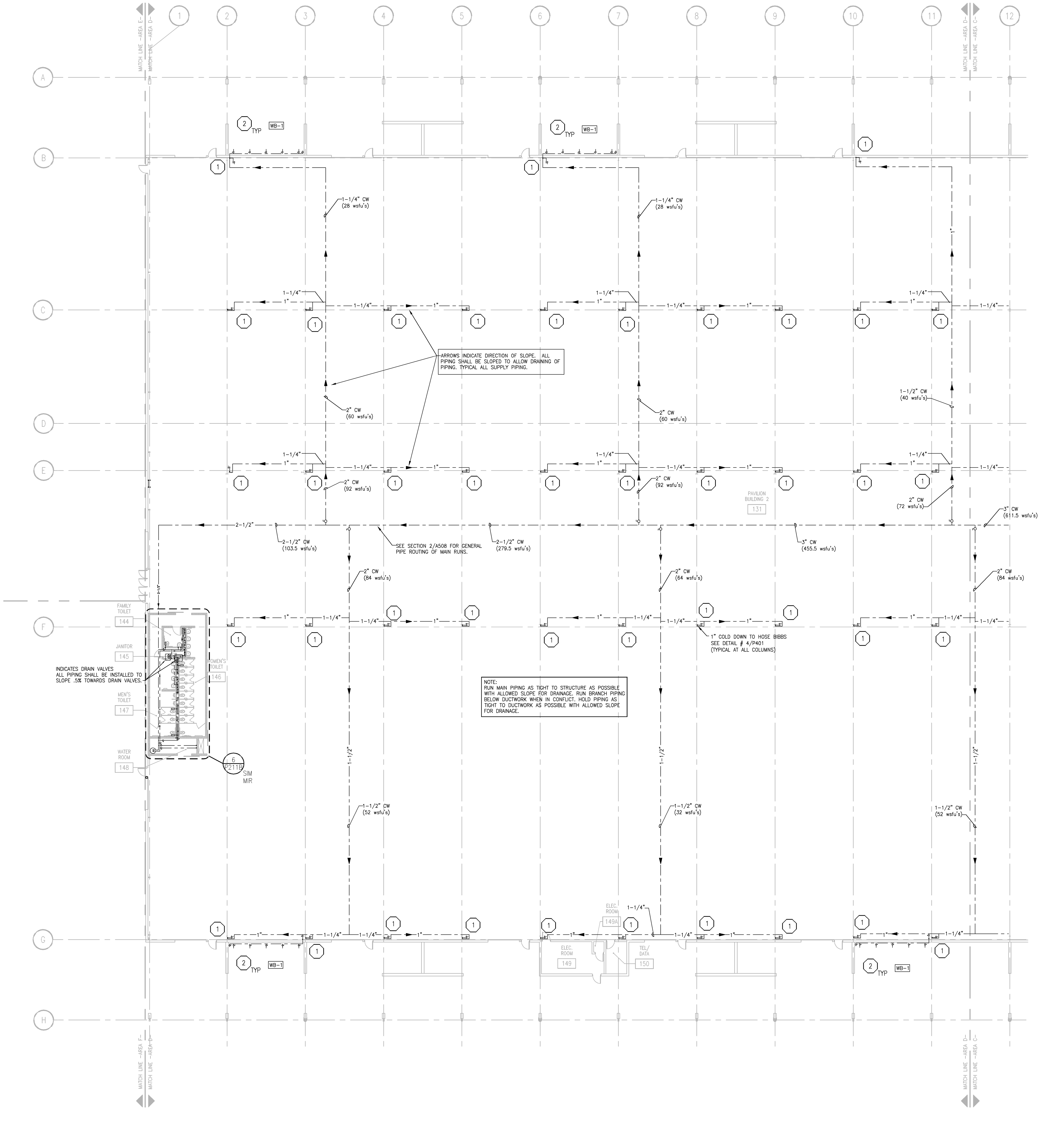
KEY PLAN

SHEET TITLE

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

SHEET NO.

P201C-W



1 / P201DS

FIRST FLOOR PLUMBING SUPPLY PLAN - AREA D

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

0' 4' 8' 16' 24'

	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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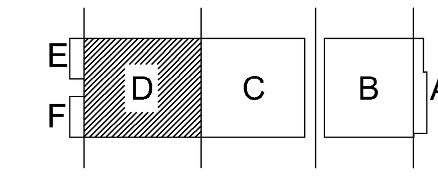


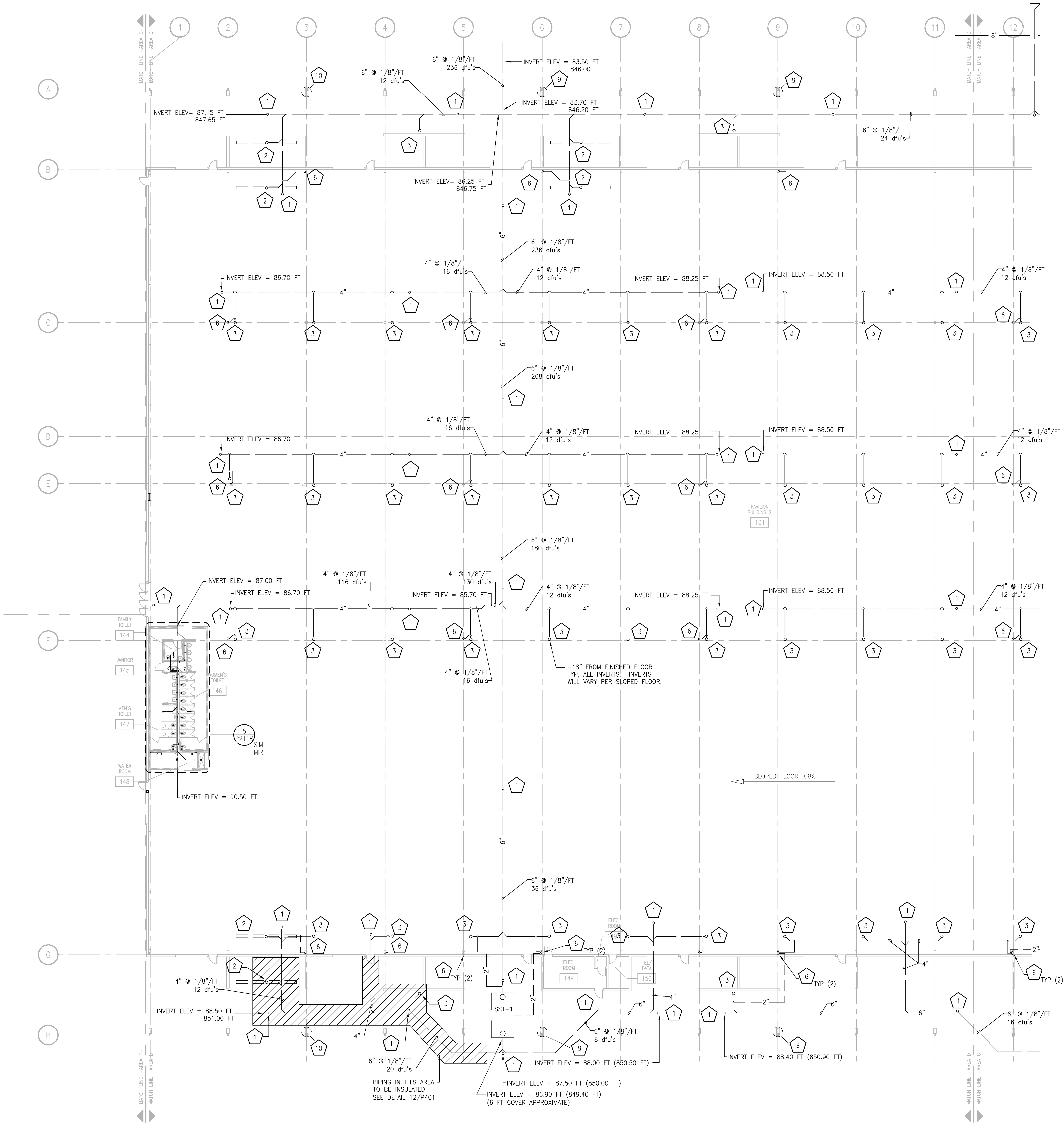
KEY PLAN

SHEET TITLE

FIRST FLOOR PLUMBING SUPPLY PLAN AREA D- BLD 2

SHEET NO.

P201D-S



1
P201DU

FIRST FLOOR PLUMBING UNDERSLAB PLAN – AREA D

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

0' 4' 8' 16' 24'

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	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	16,200 SQFT, 623 GPM. 8" VERTICAL STORM, 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	13,500 SQFT, 519 GPM. 6" VERTICAL STORM, 8" @ 1/8"/FT HORIZONTAL STORM. SEE NOTE 8.
10	18,900 SQFT, 726 GPM. 8" VERTICAL STORM, 10" @ 1/8"/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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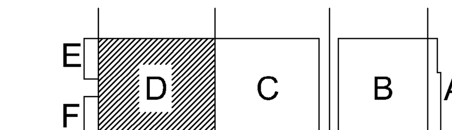
PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



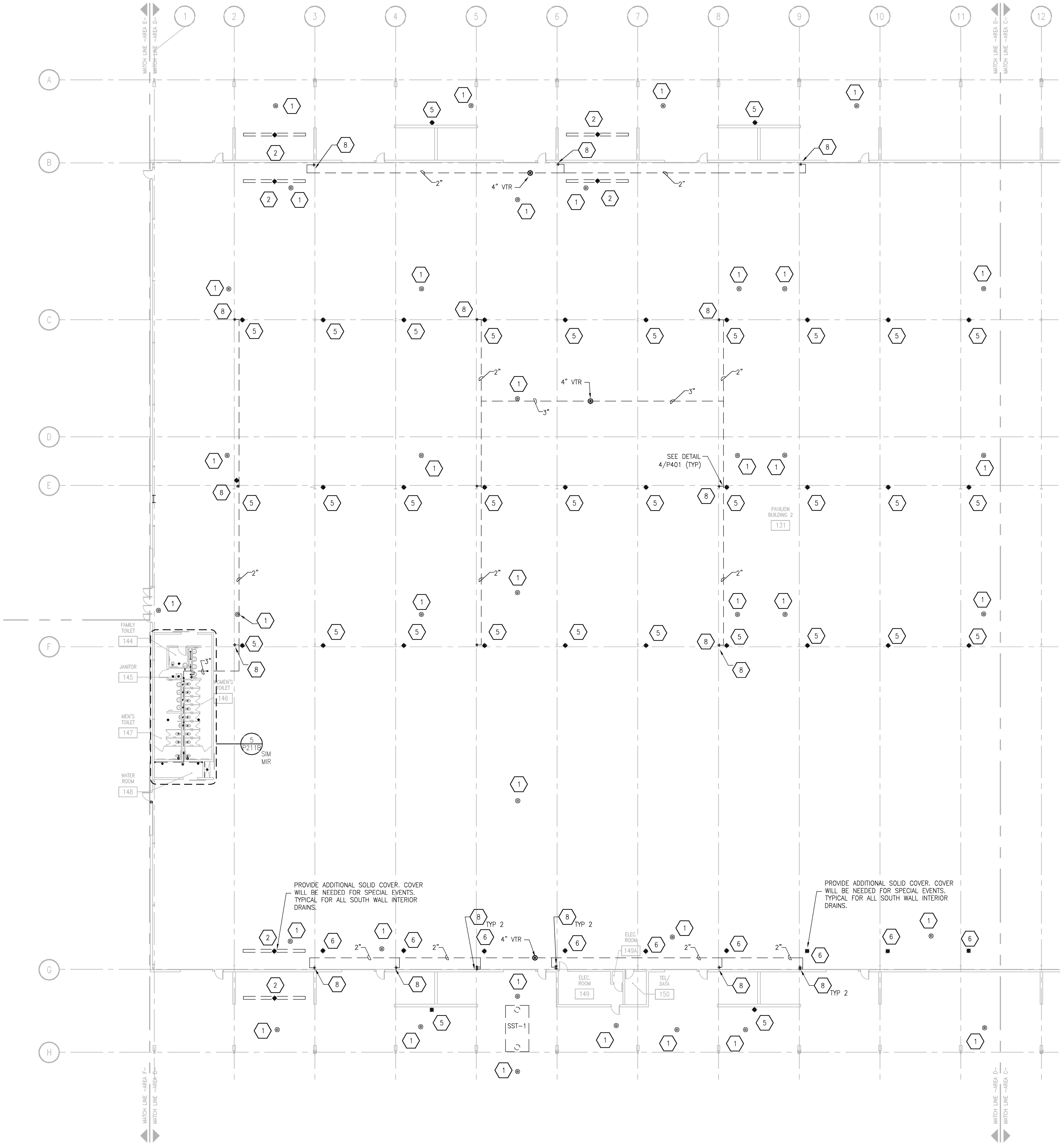
KEY PLAN

SHEET TITLE

FIRST FLOOR PLUMBING UNDERSLAB PLAN AREA D- BLD 2

SHEET NO.

P201D-U



FIRST FLOOR PLUMBING WASTE & VENT PLAN – AREA D

1 P201DW

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

0' 4' 8' 16' 24'

	PLUMBING WASTE GENERAL NOTES
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHING 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

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PROJECT TITLE

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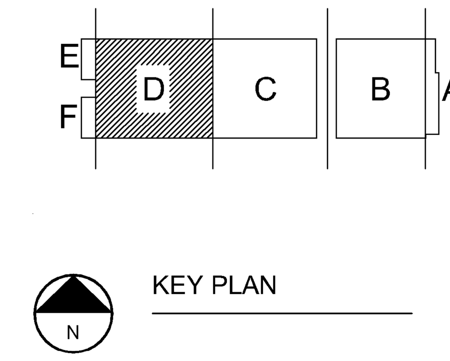
CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



KEY PLAN

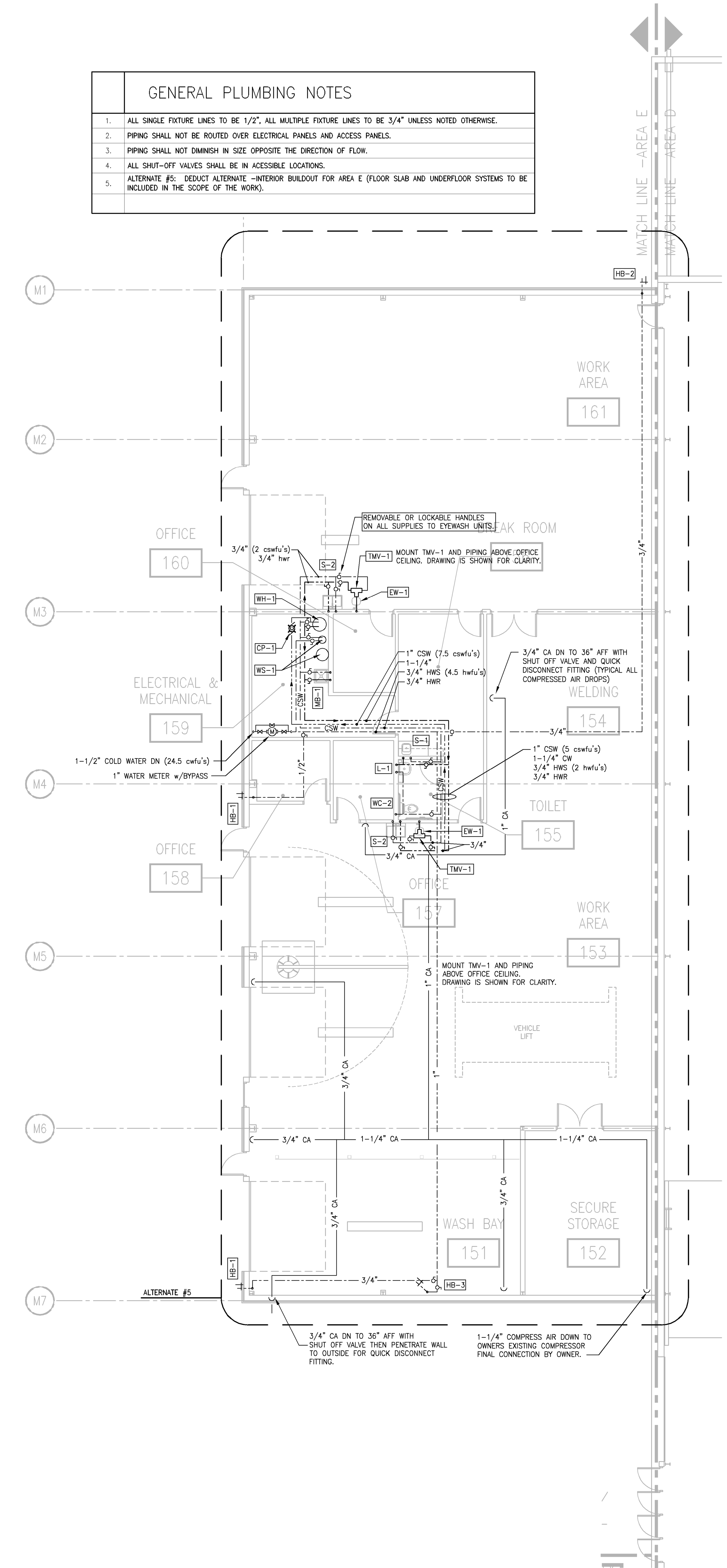
SHEET TITLE

FIRST FLOOR PLUMBING
WASTE & VENT PLAN
AREA D- BLD 2

SHEET NO.

P201D-W

	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 ACESSIBLE 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).



1 P201ES PLUMBING SUPPLY PLAN - AREA E

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

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PROJECT TITLE

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BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

KEY PLAN

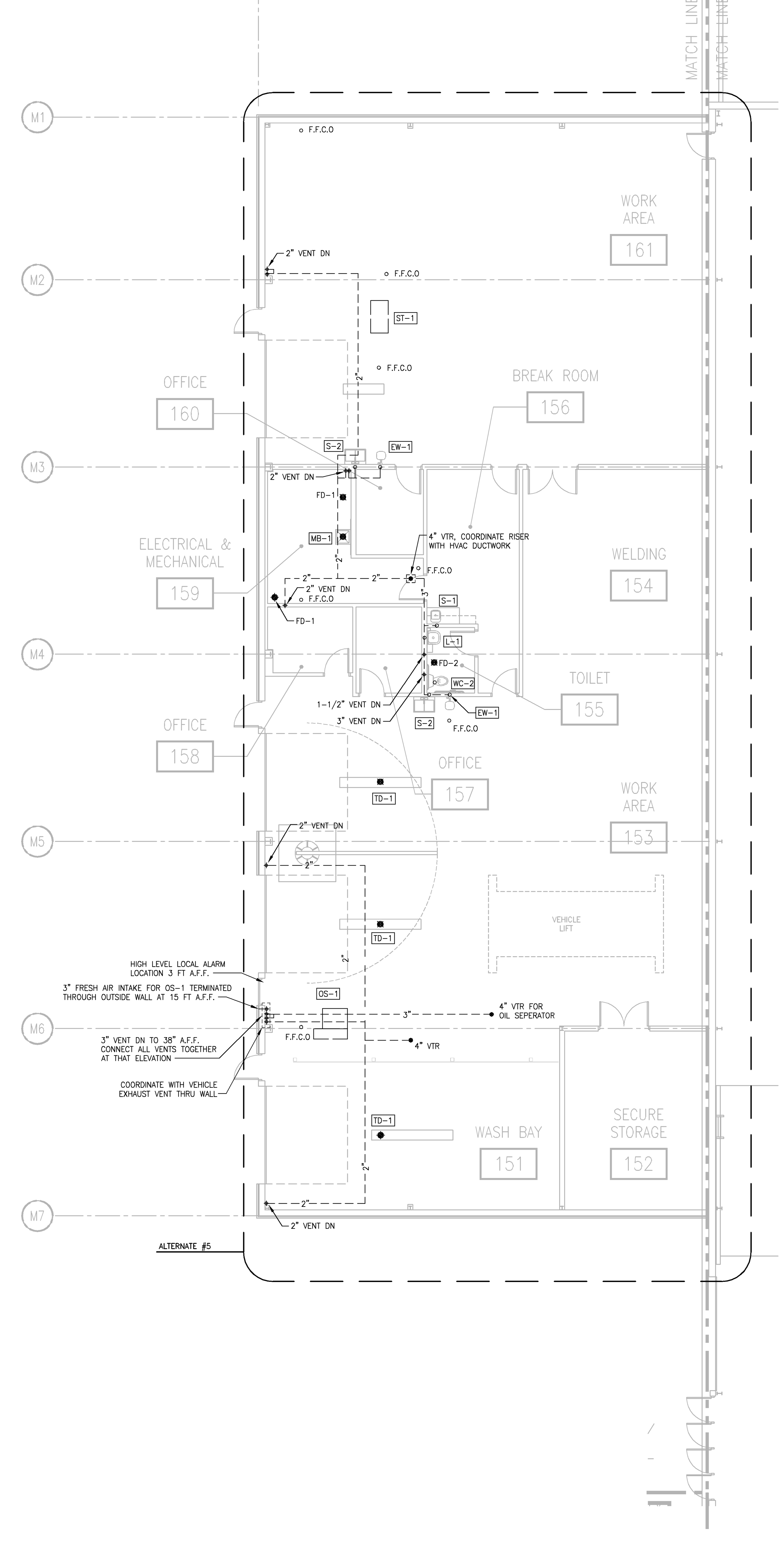
SHEET TITLE

FIRST FLOOR PLUMBING SUPPLY PLAN AREA E - BLD 2

SHEET NO.

P201E-S

	GENERAL PLUMBING WASTE NOTES
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHING 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).

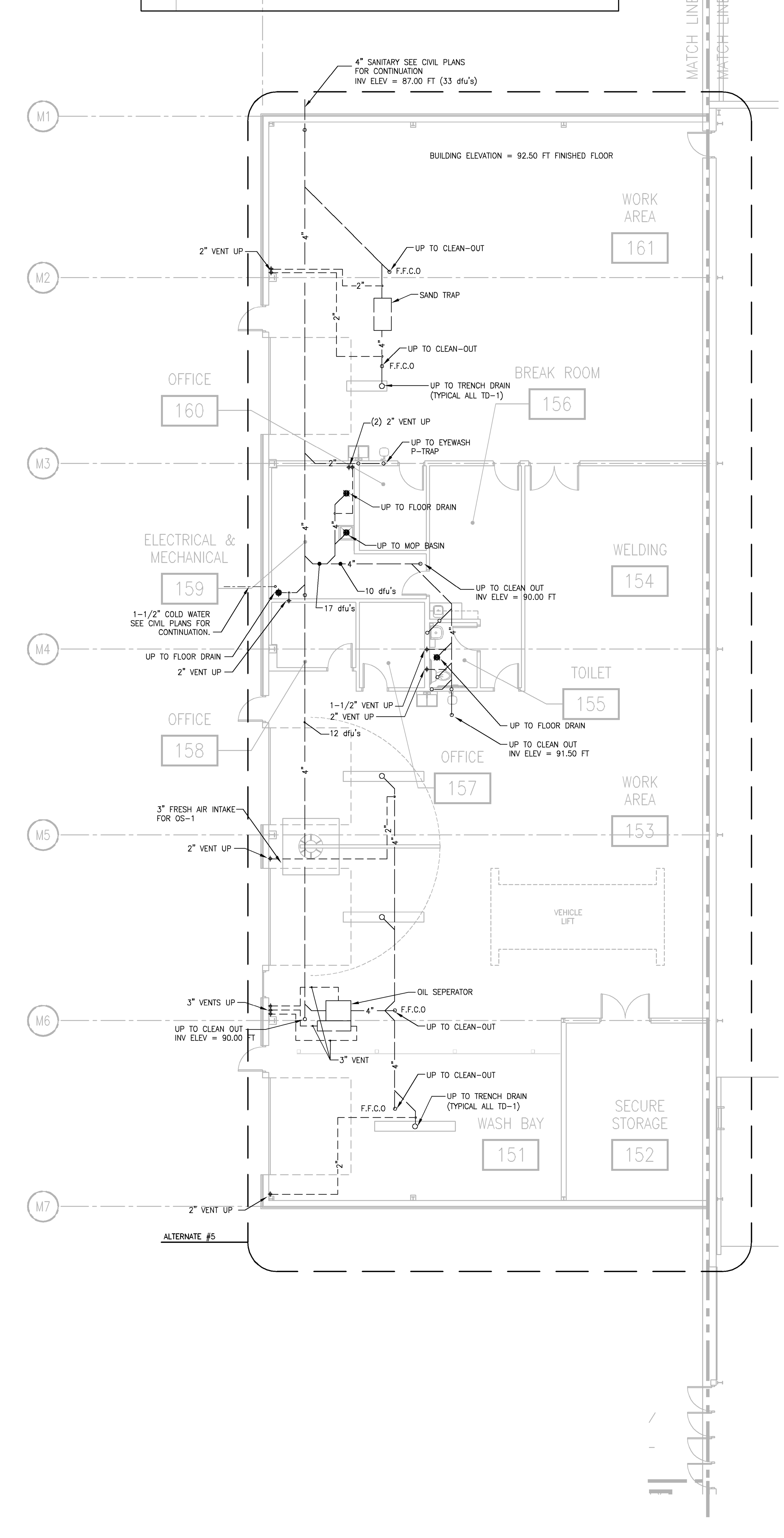


PLUMBING WASTE PLAN - AREA E

2 P201EW

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

	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

2 P201EW

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

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BID # 313072

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MADISON, WI 53713

E F D C B A

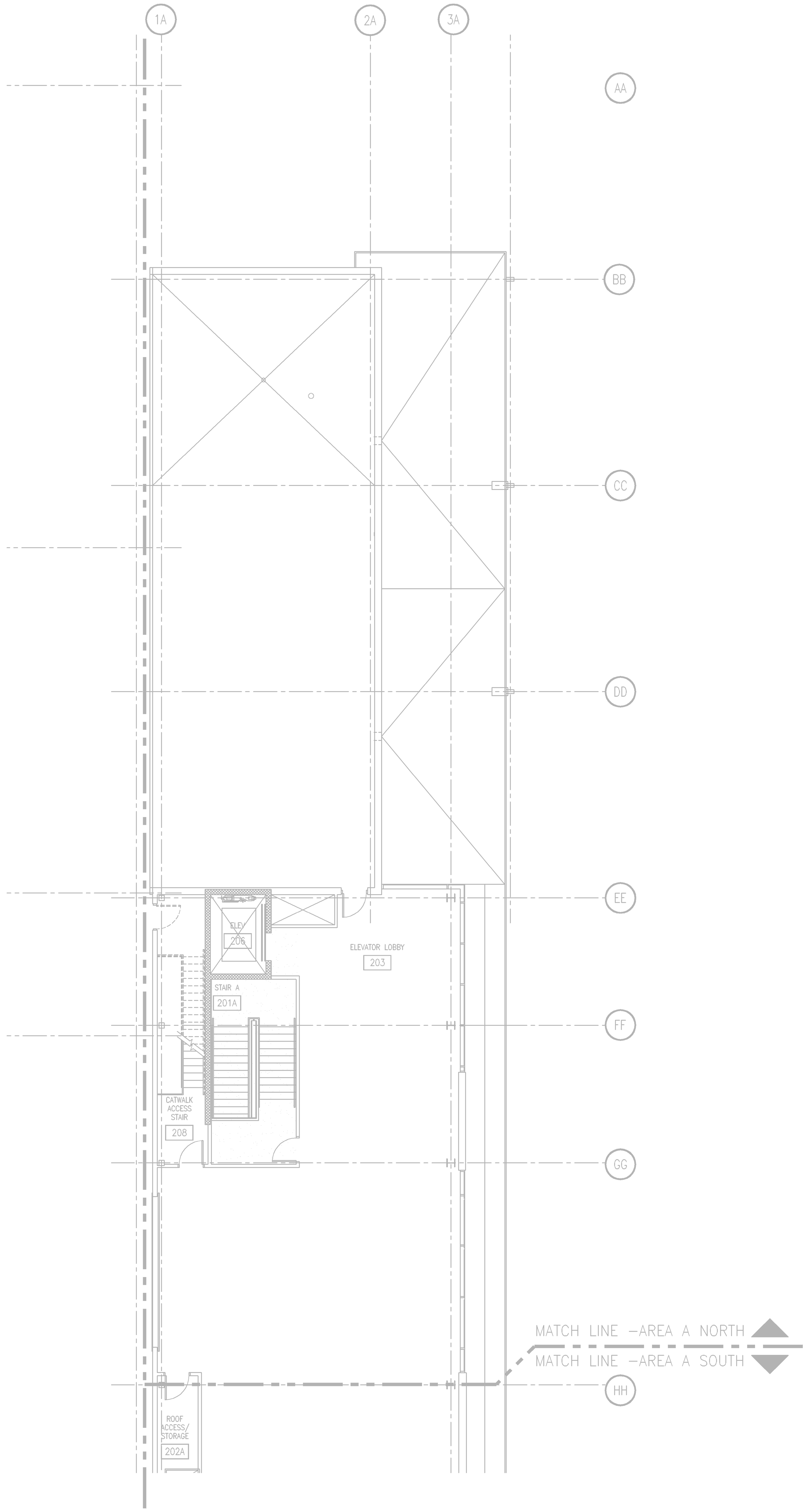
KEY PLAN

SHEET TITLE

FIRST FLOOR PLUMBING WASTE PLANS AREA E - BLD 2

SHEET NO.

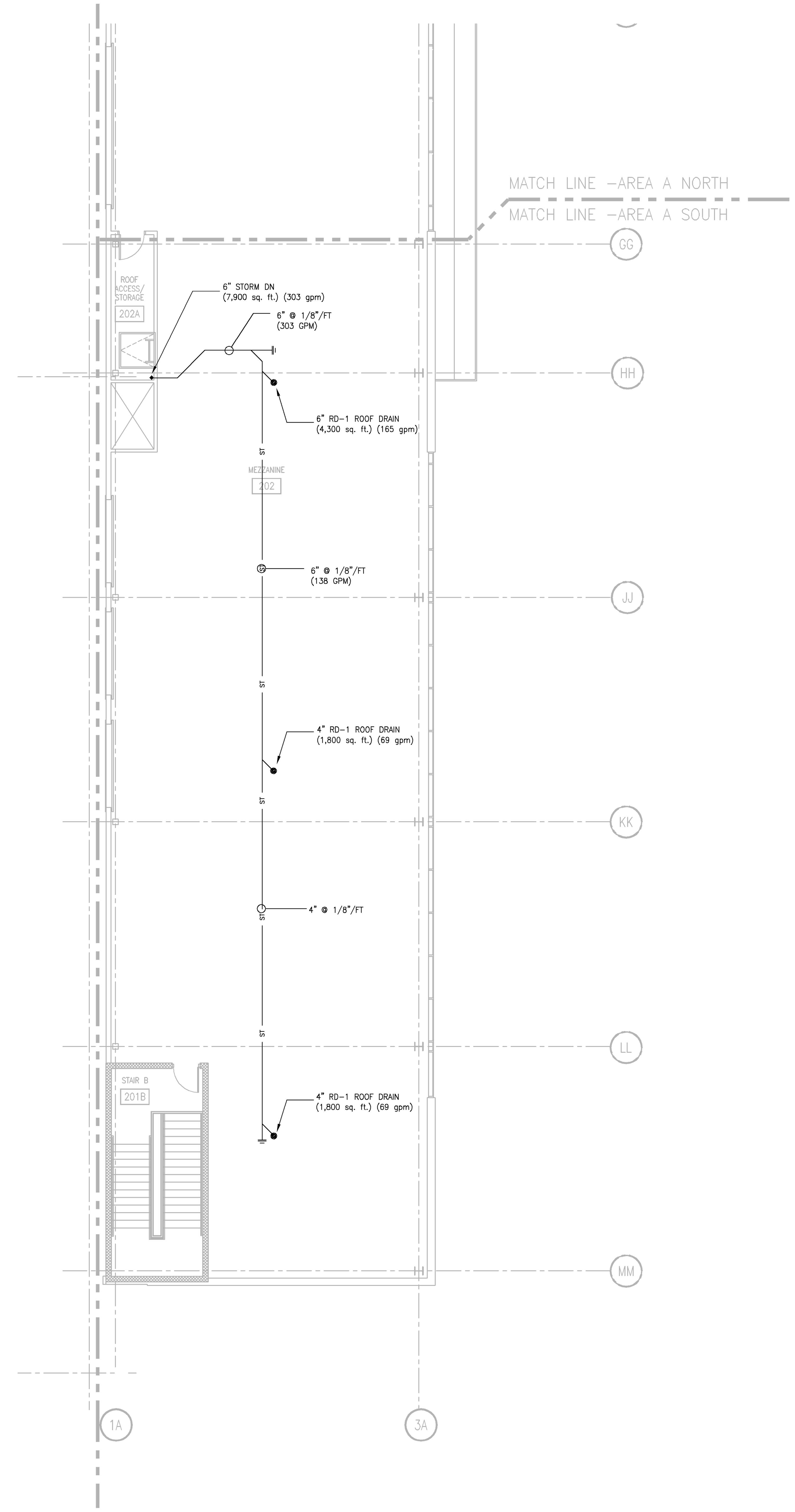
P201E-W



MEZZANINE PLUMBING WASTE PLAN – AREA A – NORTH

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

1 / P202AW



MEZZANINE PLUMBING WASTE PLAN – AREA A – SOUTH

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

2 / P202AW

	PLUMBING WASTE GENERAL NOTES
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHING 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.

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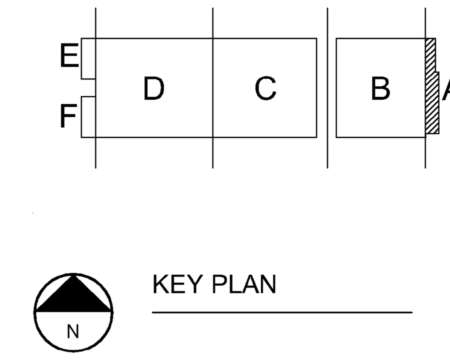


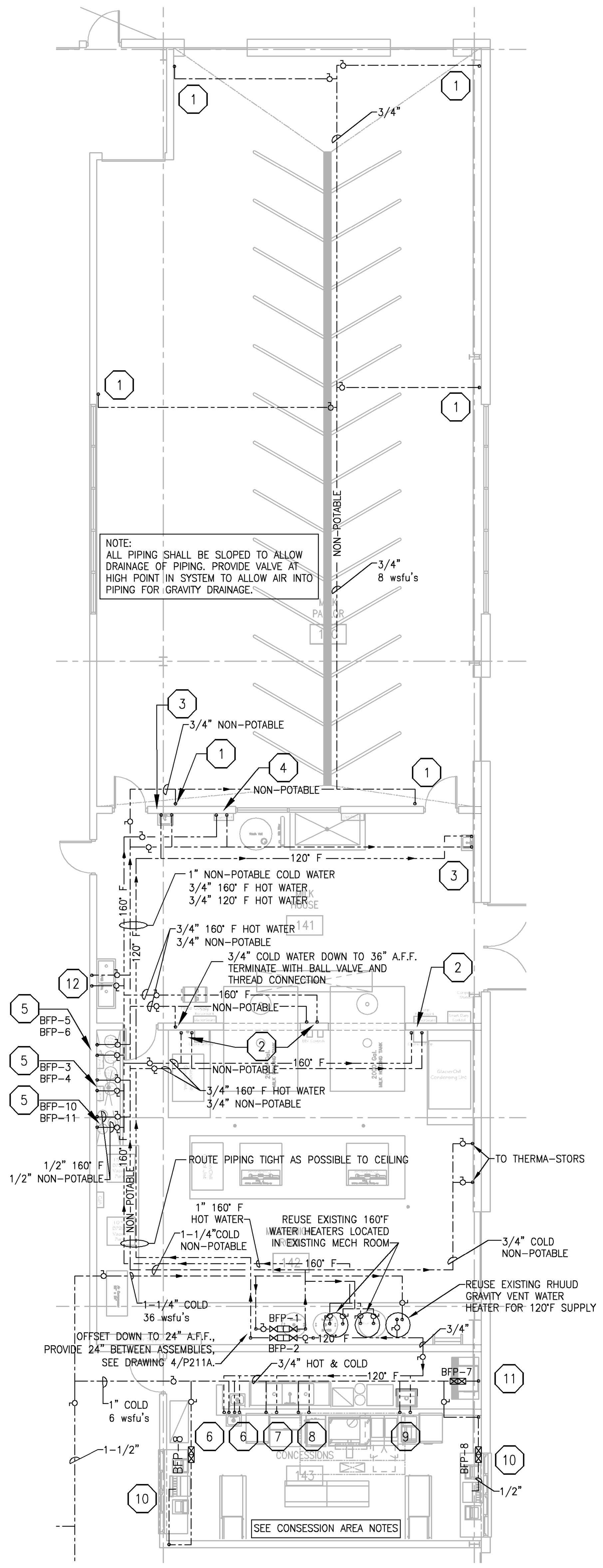
KEY PLAN

SHEET TITLE

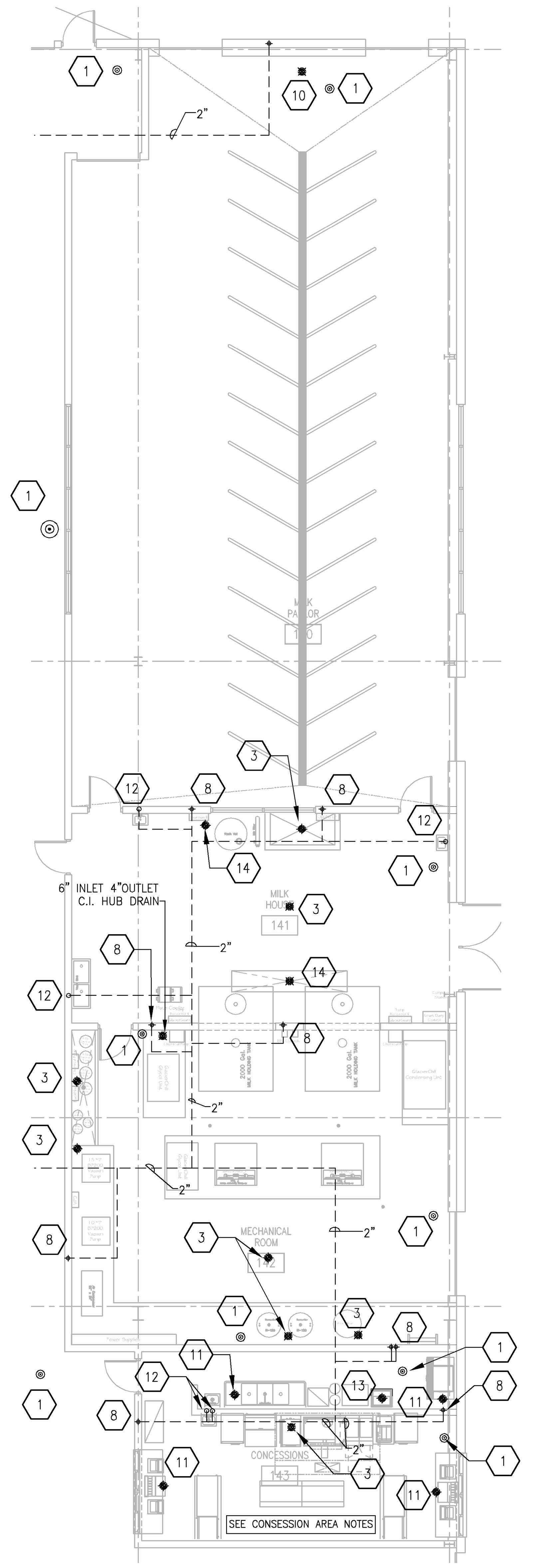
MEZZANINE PLUMBING WASTE PLAN AREA A - BLD 1

SHEET NO.

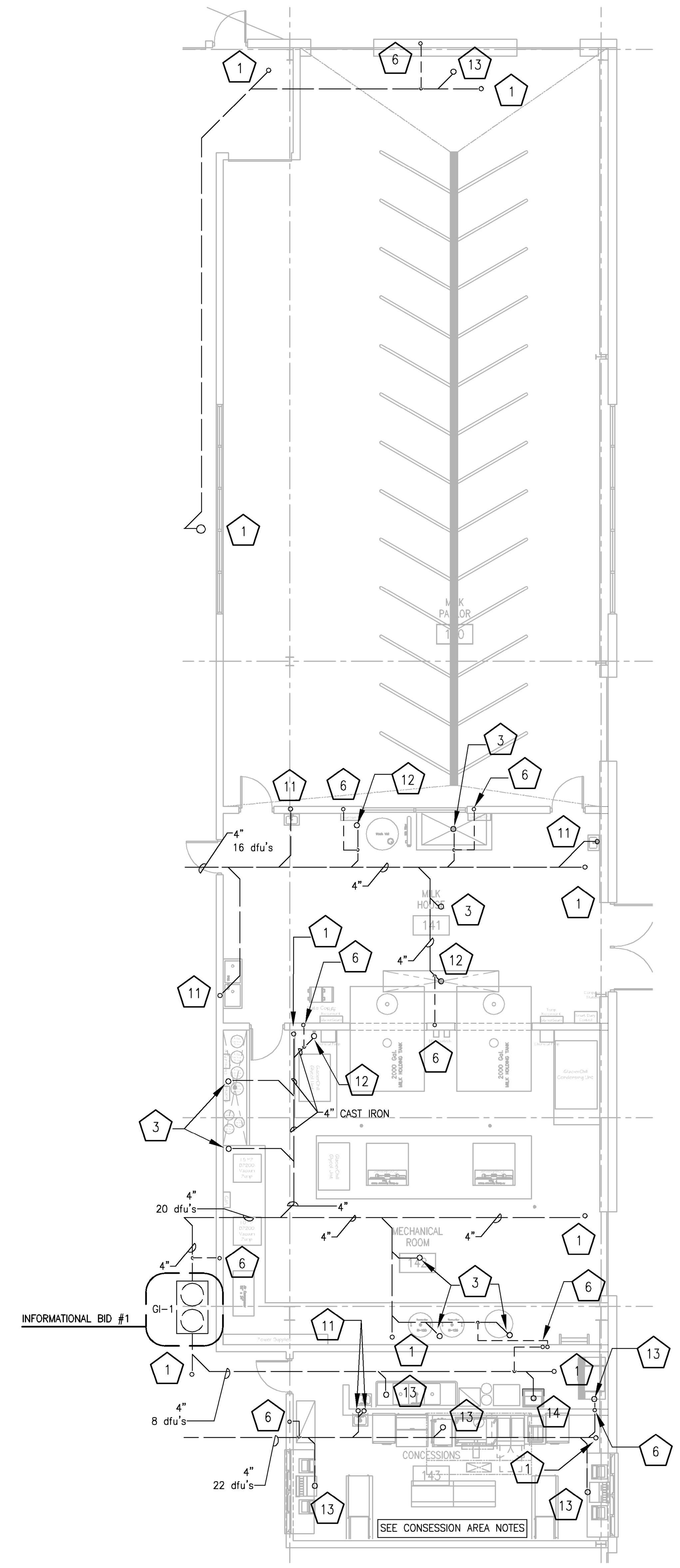
P202A-W



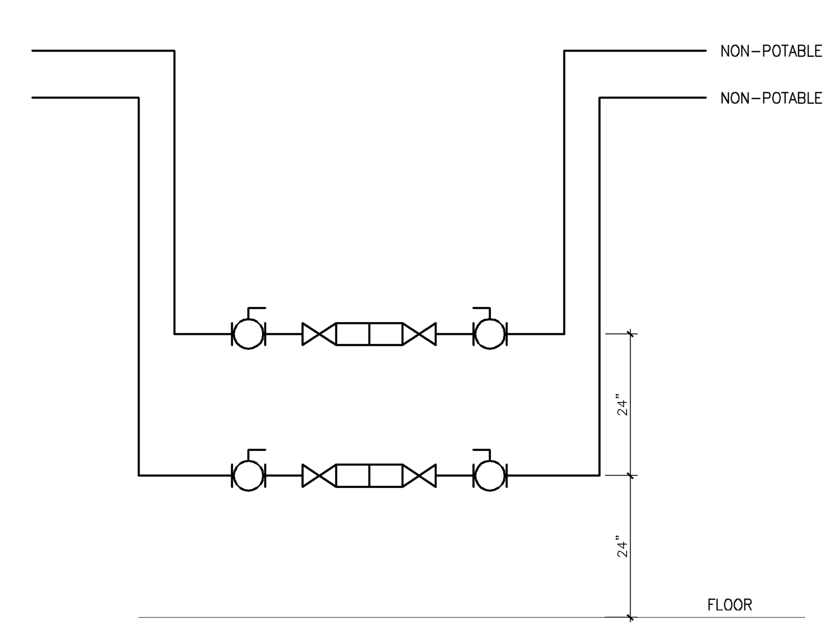
ROOMS 140, 141, 142 & 143
ENLARGED PLUMBING SUPPLY PLAN
3/P211A
SCALE: 1/8" = 1'-0"



ROOMS 140, 141, 142 & 143
ENLARGED PLUMBING WASTE PLAN
2/P211A
SCALE: 1/8" = 1'-0"



ROOMS 140, 141, 142 & 143
ENLARGED PLUMBING UNDERSLAB PLAN
1/P211A
SCALE: 1/8" = 1'-0"



MILK HOUSE
BACKFLOW PREVENTORS ON SOUTH WALL
4/P211A
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 FLOWW.
4.	ALL SHUT-OFF VALVES SHALL BE IN ACESSIBLE LOCATIONS.

PLUMBING WASTE GENERAL NOTES

1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHING 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.
2	1/2" 160°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 SD-3 (ASSE 1022) BACKFLOW PREVENTOR.
11	3/4" COLD DOWN WALL AND OVER TO ICE MAKER WITH INLINE WATTS SD-3 (ASSE 1022) BACKFLOW PREVENTOR.
12	1/2" 160°F 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	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" @ 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	13,500 SQFT, 519 GPM. 6" VERTICAL STORM, 8" @ 1/8"/FT HORIZONTAL STORM. SEE NOTE 8.
10	18,900 SQFT, 726 GPM. 8" VERTICAL STORM, 10" @ 1/8"/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.

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

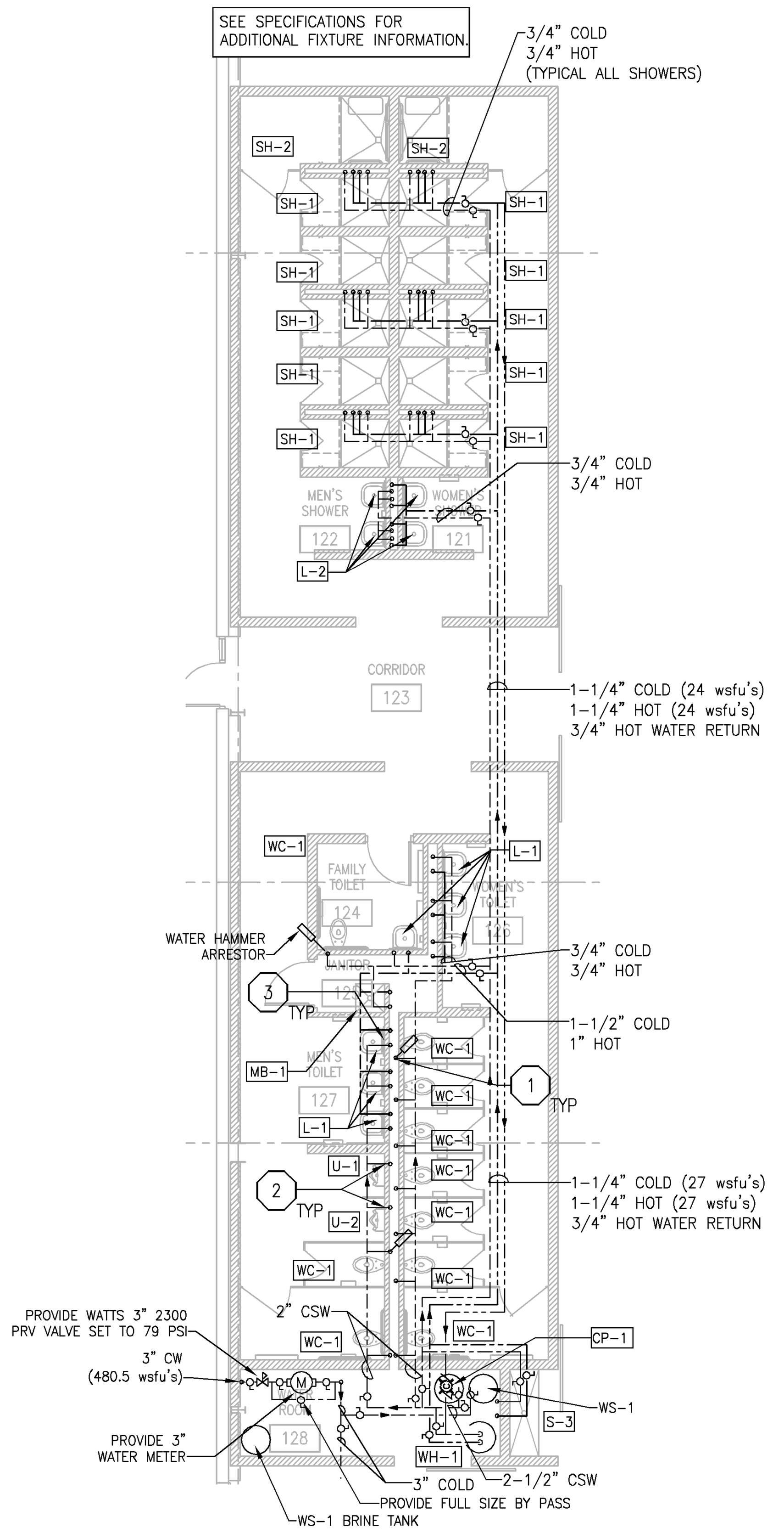
ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

ENLARGED PLUMBING PLANS

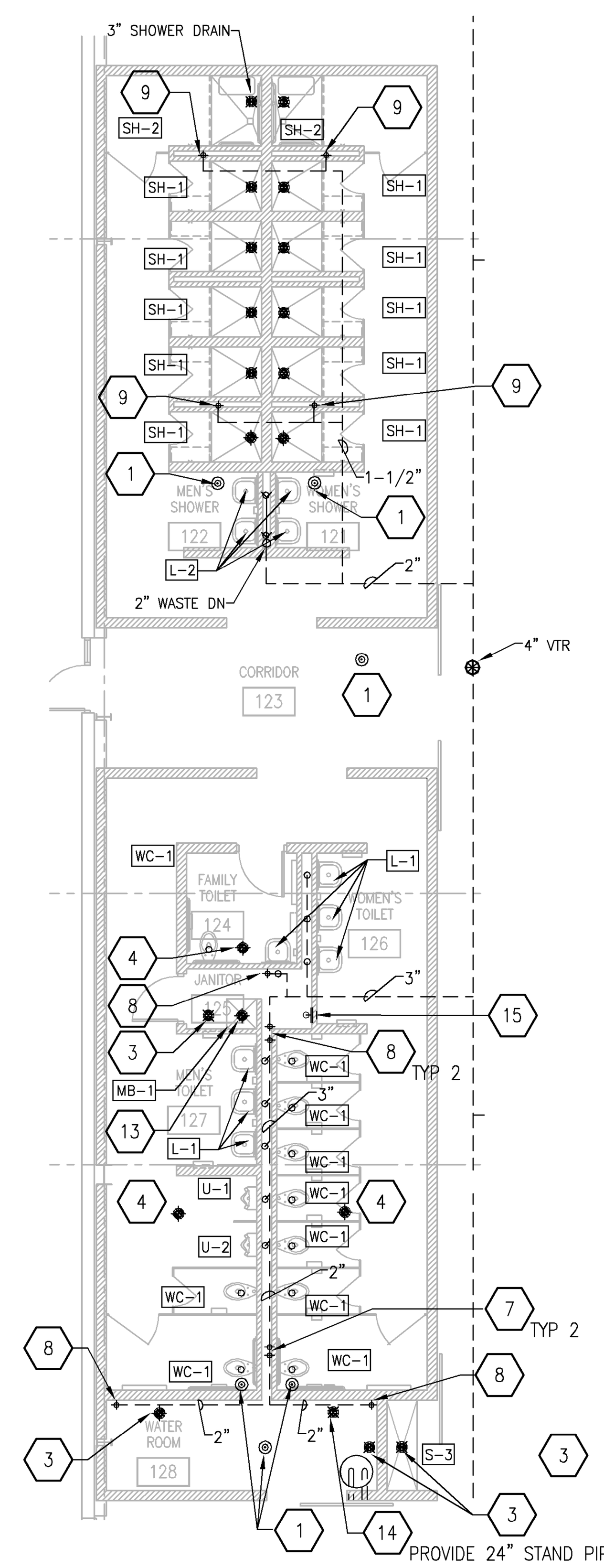
SHEET NO.
P211A



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

3 P211B ENLARGED PLUMBING SUPPLY PLAN

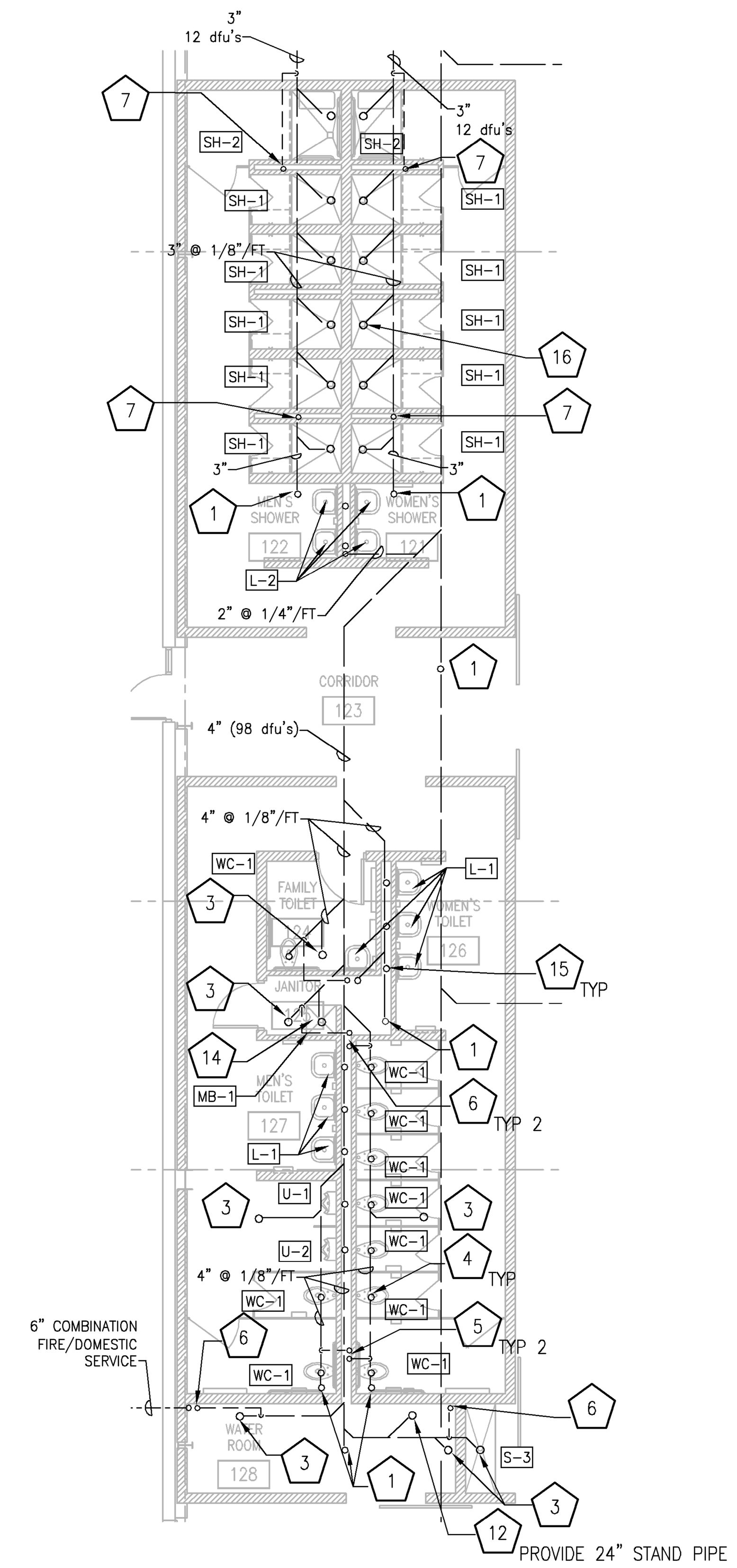
SCALE: 1/8" = 1'-0"



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

2 P211B ENLARGED PLUMBING WASTE PLAN

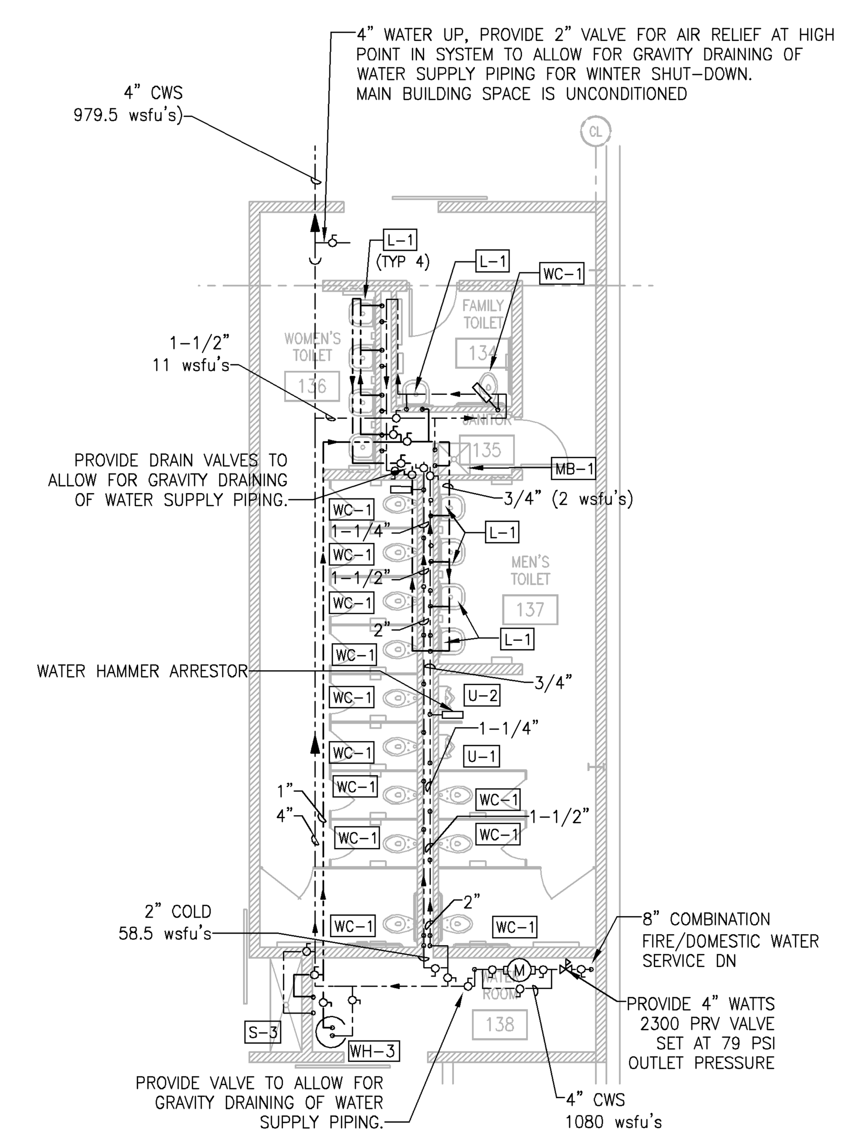
SCALE: 1/8" = 1'-0"



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

1 P211B ENLARGED PLUMBING UNDERSLAB PLAN

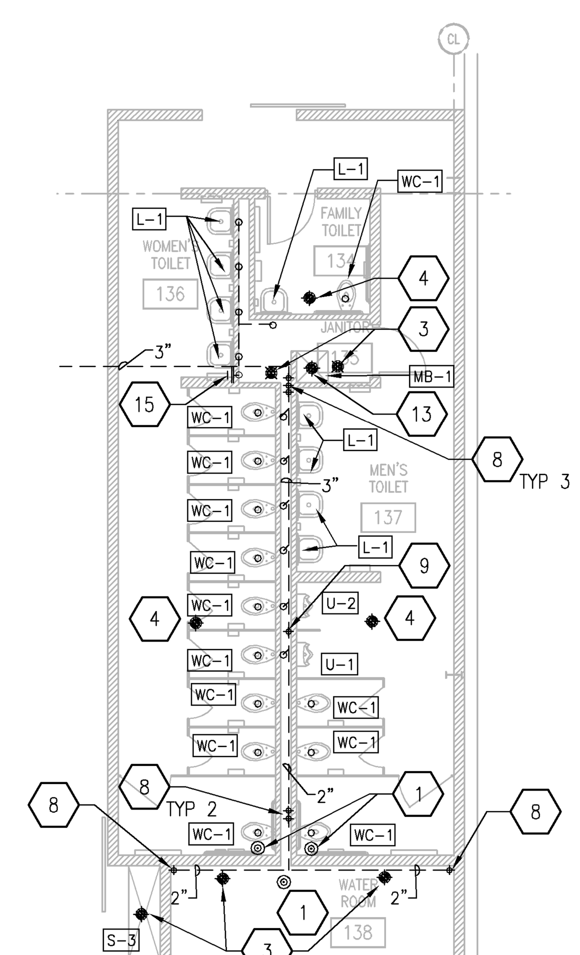
SCALE: 1/8" = 1'-0"



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

6 P211B ENLARGED PLUMBING SUPPLY PLAN

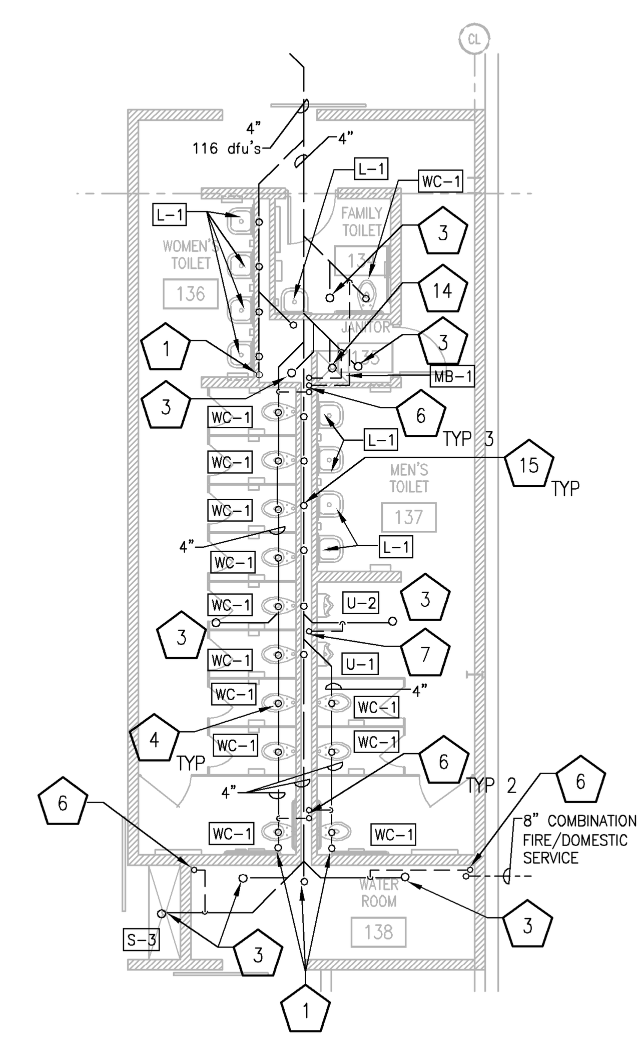
SCALE: 1/8" = 1'-0"



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

5 P211B ENLARGED PLUMBING WASTE PLAN

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



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

4 P211B ENLARGED PLUMBING UNDERSLAB PLAN

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

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 FLOWW.
4.	ALL SHUT-OFF VALVES SHALL BE IN ACESSIBLE LOCATIONS.

PLUMBING WASTE GENERAL NOTES

1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHING 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
2	3/4" DN TO URINAL
3	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" @ 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	13,500 SQFT, 519 GPM. 6" VERTICAL STORM, 8" @ 1/8"/FT HORIZONTAL STORM. SEE NOTE 8.
10	18,900 SQFT, 726 GPM. 8" VERTICAL STORM, 10" @ 1/8"/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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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS BID # 313072

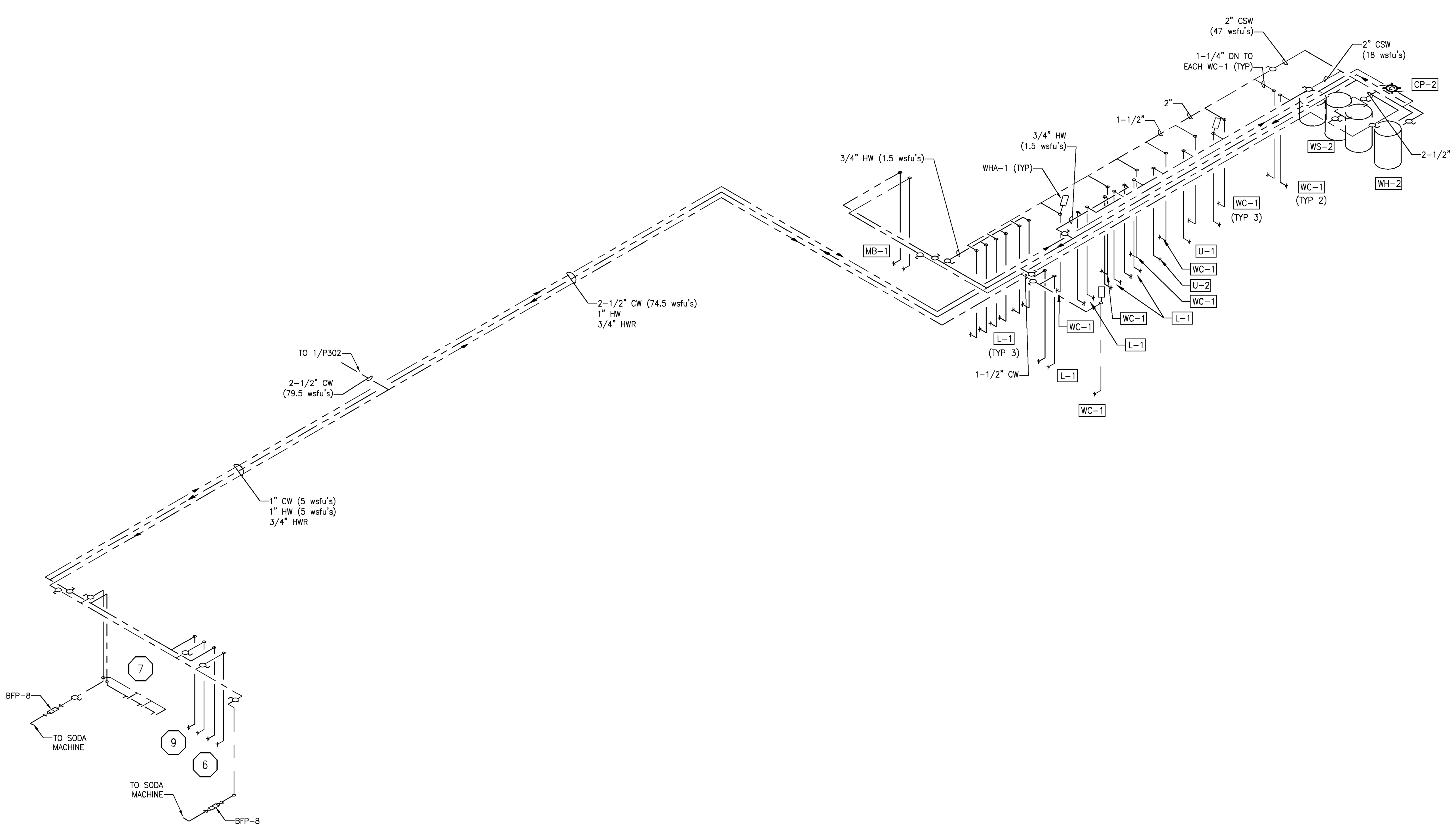
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

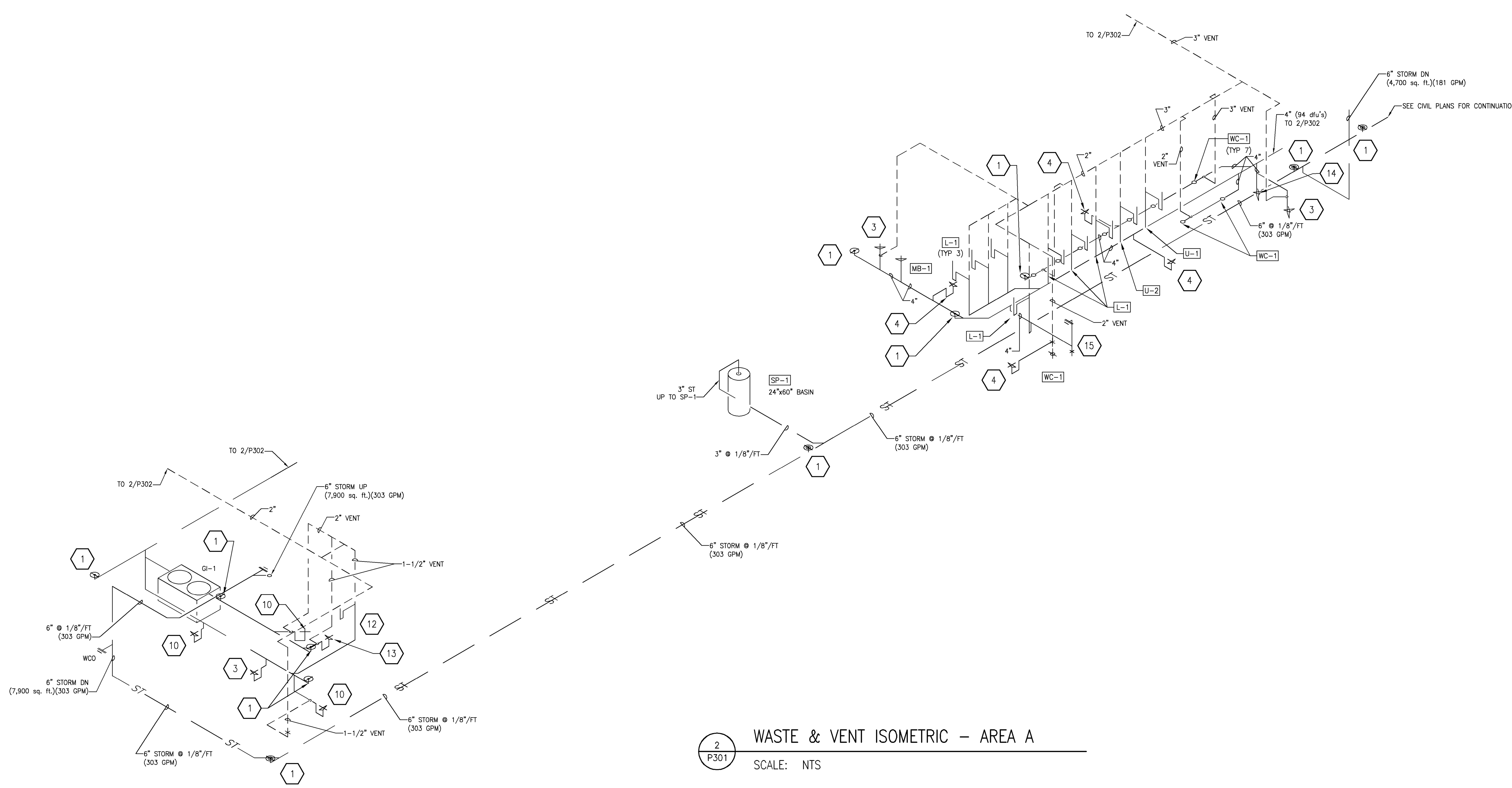
ENLARGED PLUMBING PLANS

SHEET NO.

P211B



1 P301 SUPPLY ISOMETRIC – AREA A
SCALE: NTS



2 P301 WASTE & VENT 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 FLOWW.
4.	ALL SHUT-OFF VALVES SHALL BE IN ACESSIBLE LOCATIONS.

	PLUMBING WASTE GENERAL NOTES
1.	ALL VENTING TO BE 1-1/2" UNLESS NOTED OTHERWISE.
2.	NO PIPING SHALL BE INSTALLED WITHING 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 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 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

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ALLIANT ENERGY CENTER PAVILIONS BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

PLUMBING SUPPLY, WASTE & VENT ISOMETRICS

SHEET NO.

P301

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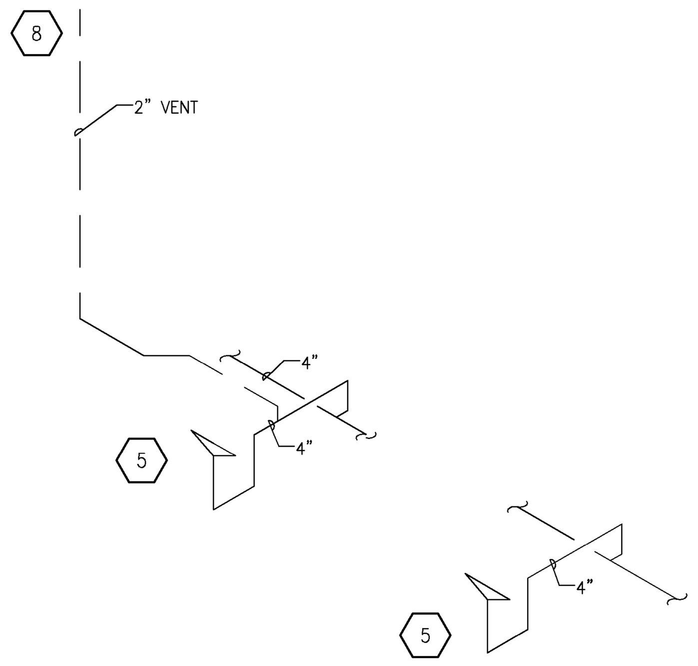
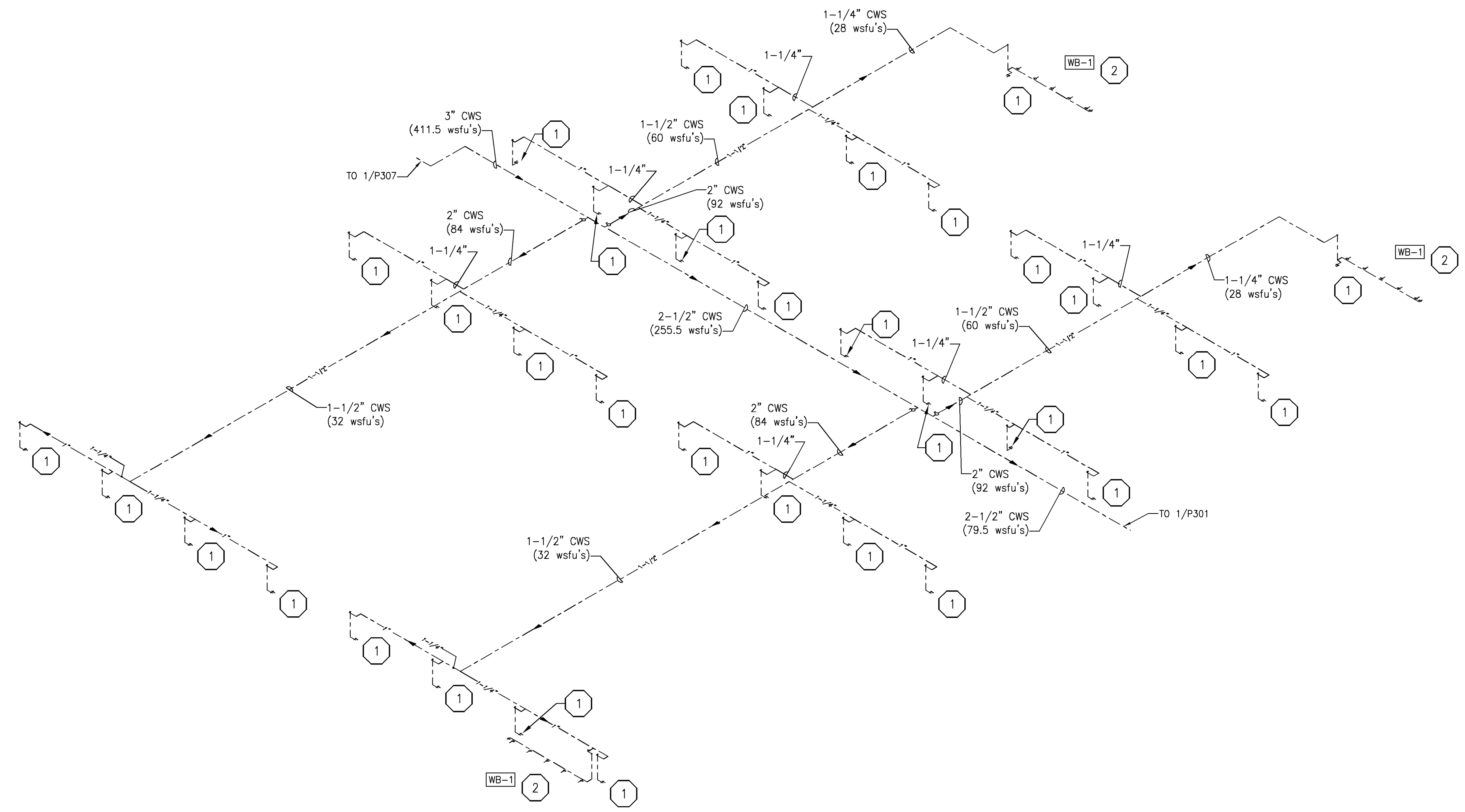


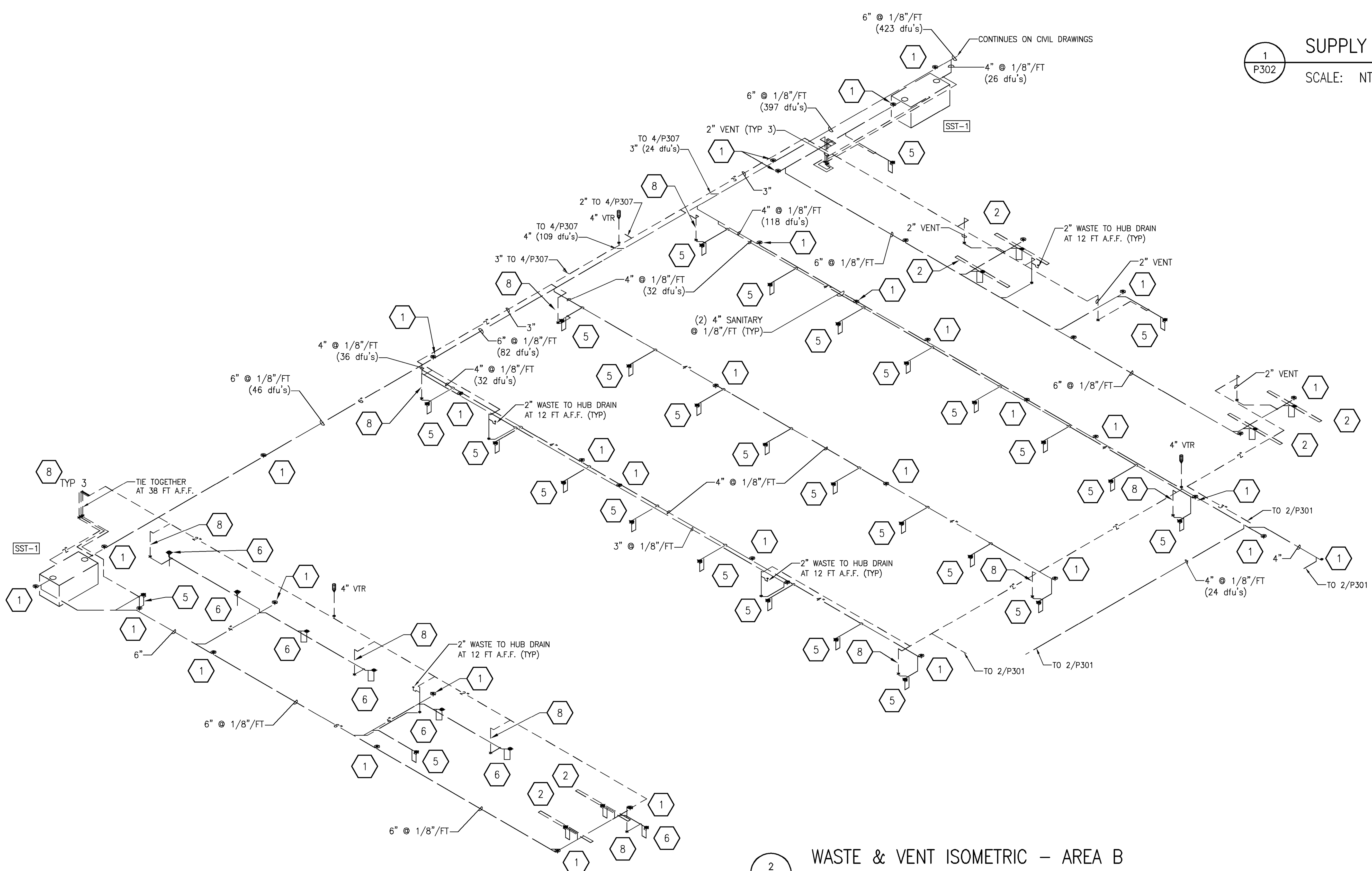
3 P302 TYPICAL DRAIN @ COLUMN DETAILS

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

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BID # 313072

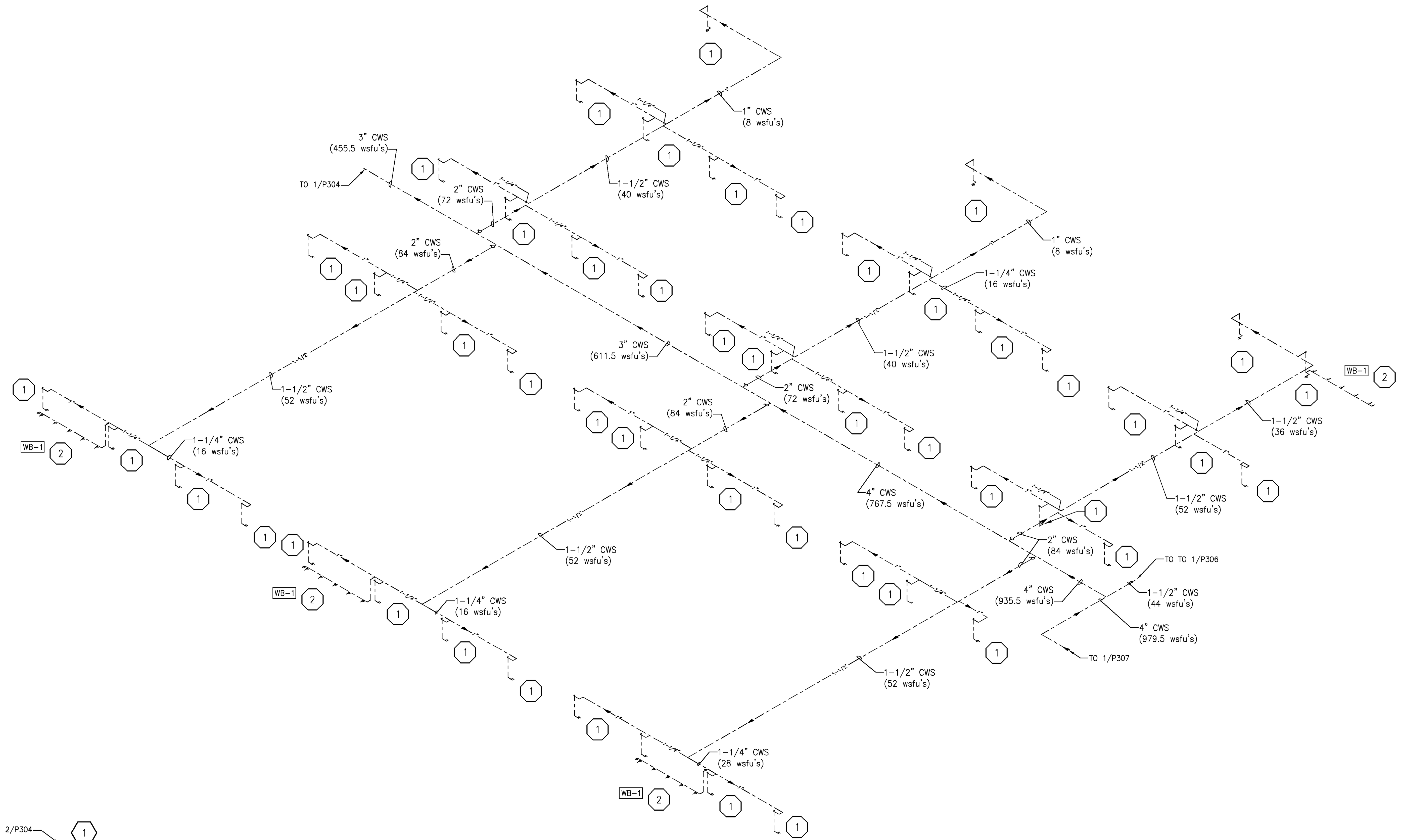
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

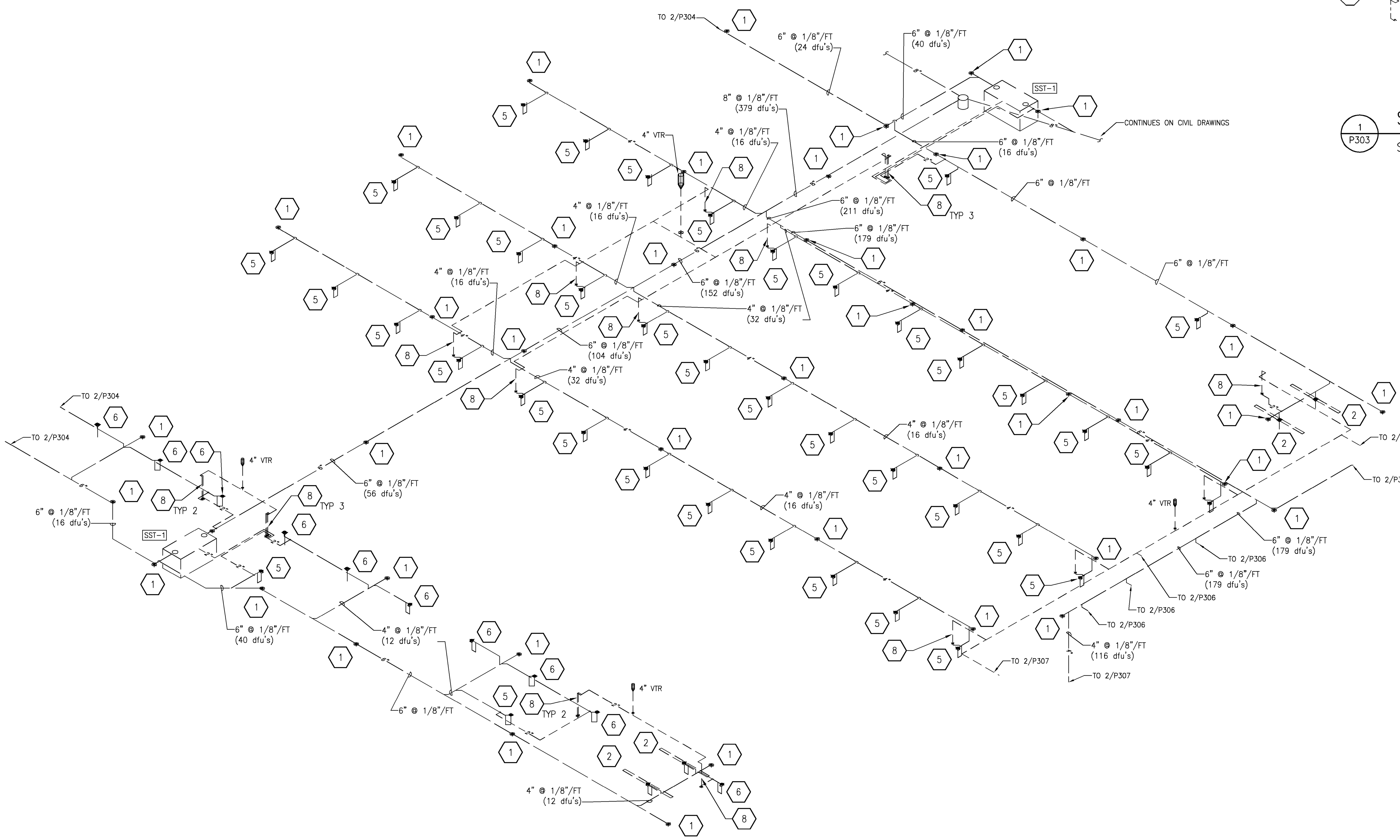
SHEET TITLE

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

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1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

PLUMBING SUPPLY, WASTE & VENT ISOMETRICS

SHEET NO.

P303

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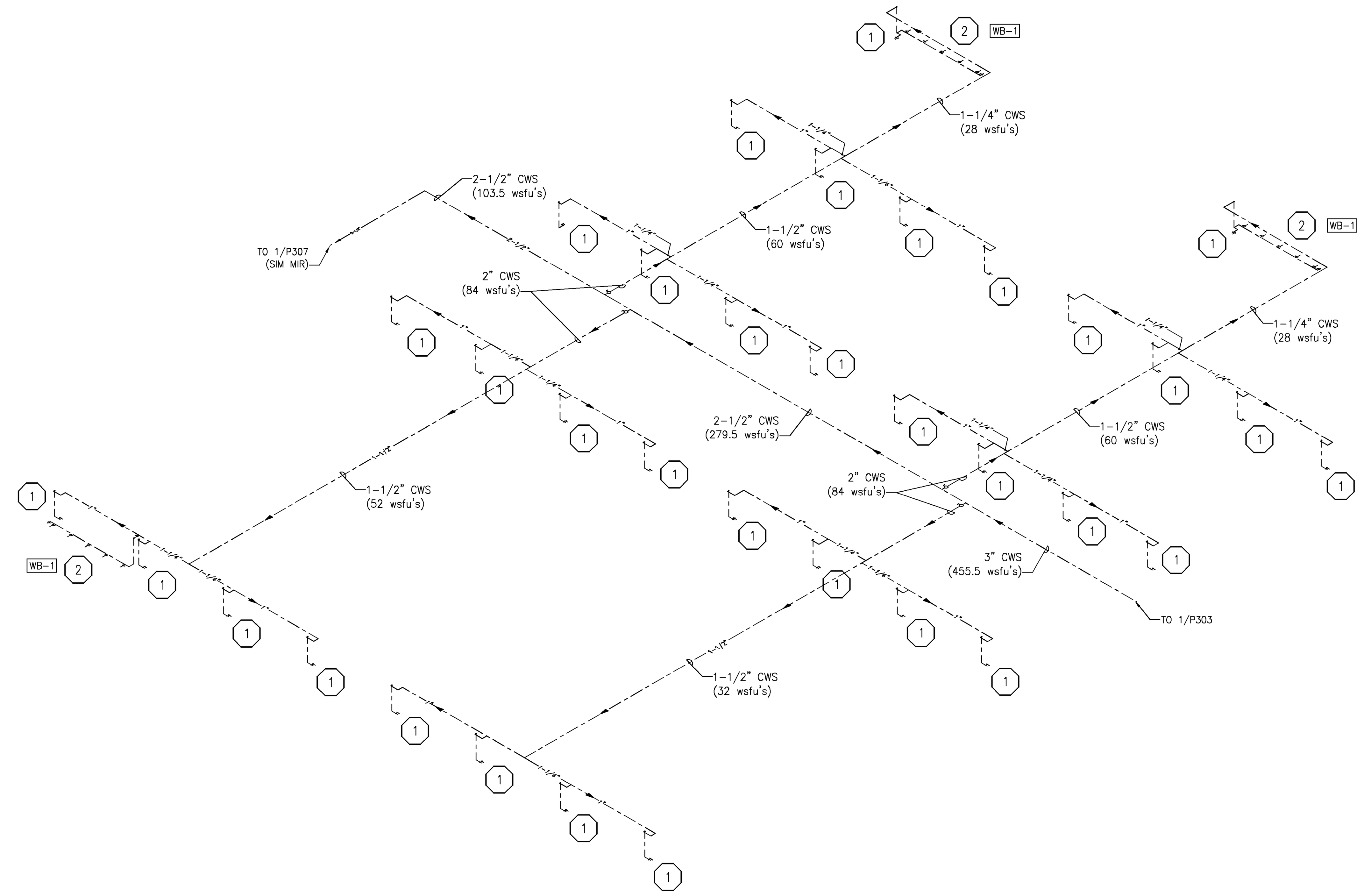
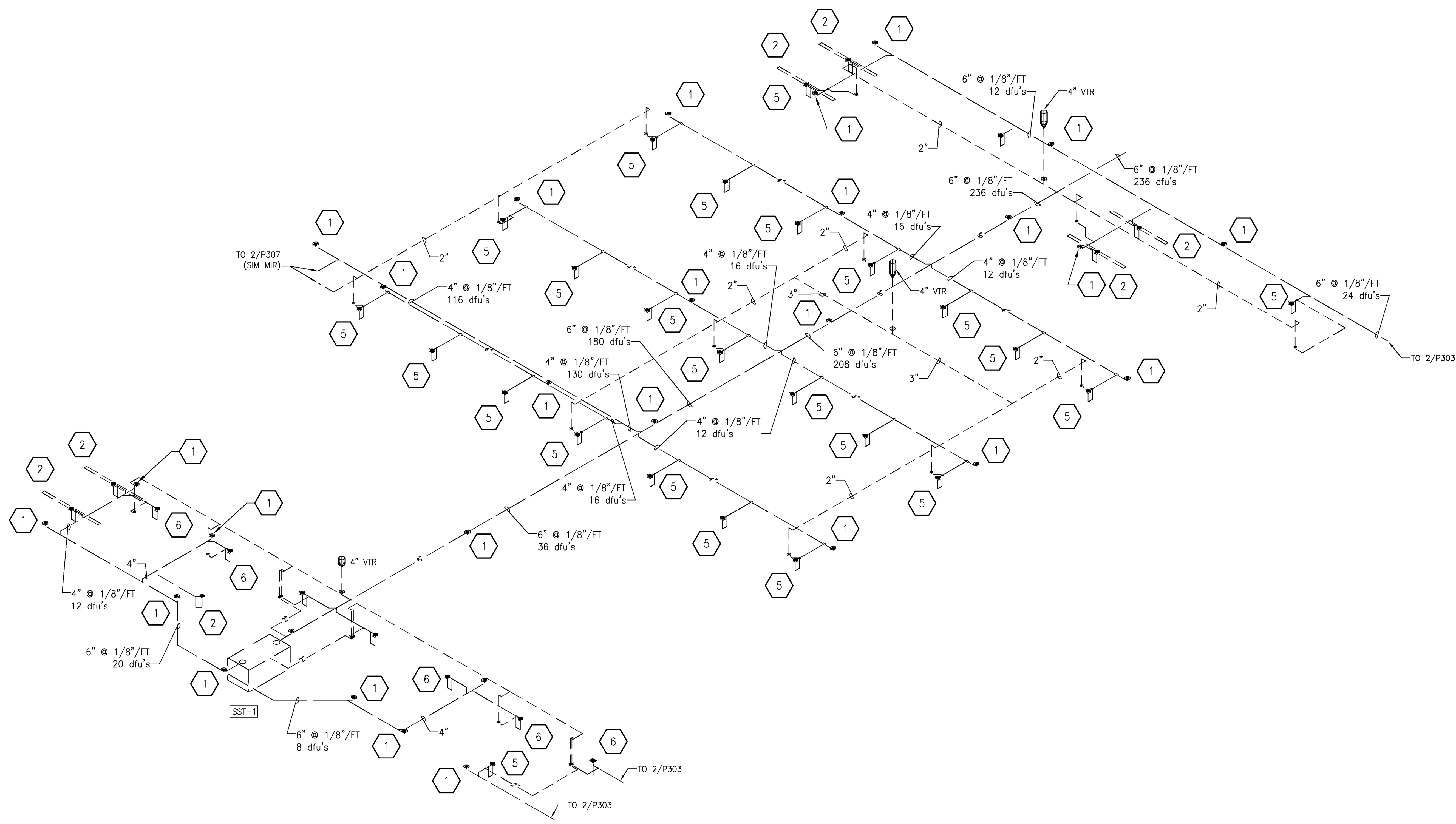


1
P304
SUPPLY ISOMETRIC - AREA D
SCALE: NTS



2
P304
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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PROJECT TITLE

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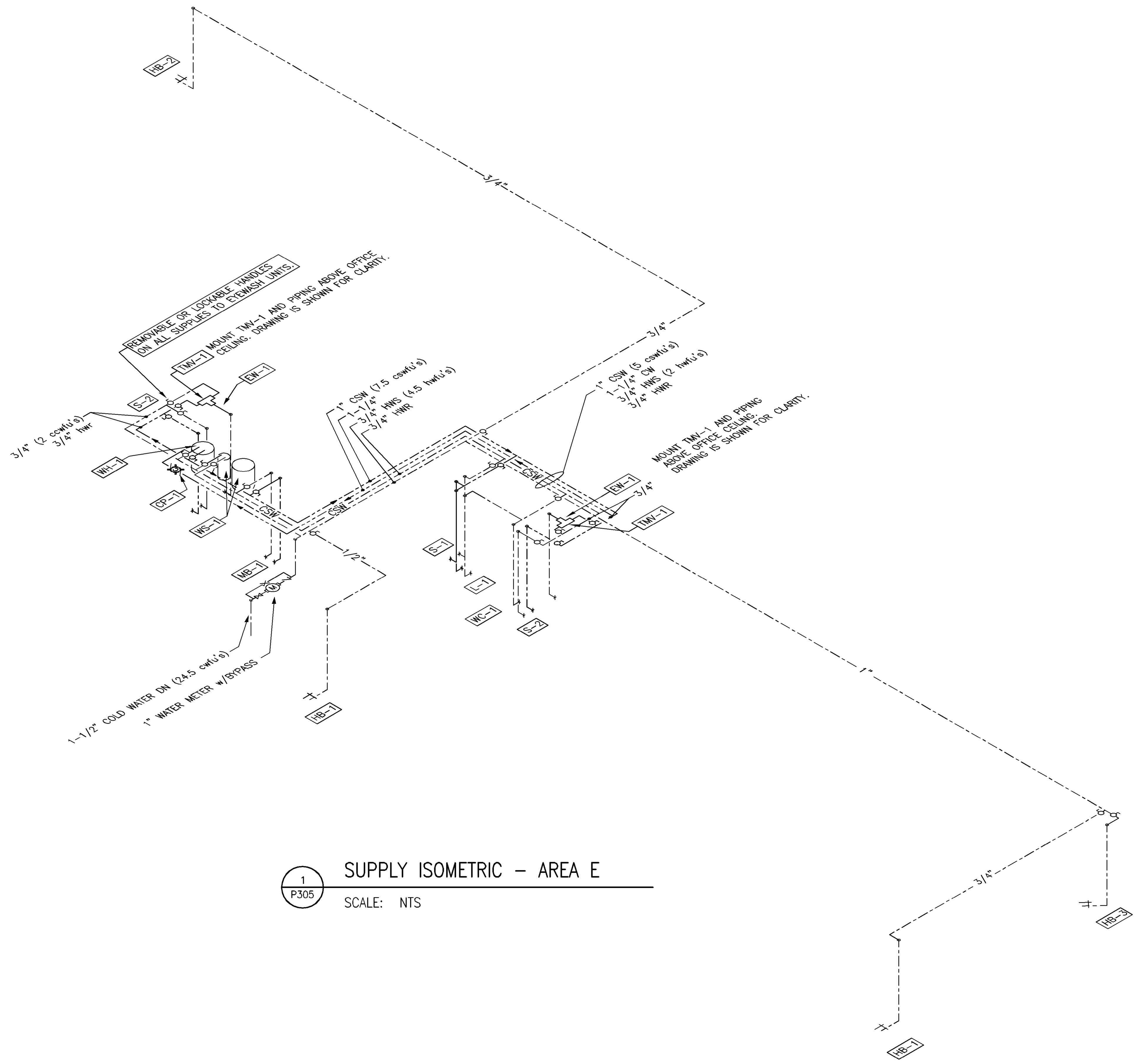
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

PLUMBING SUPPLY, WASTE & VENT ISOMETRICS

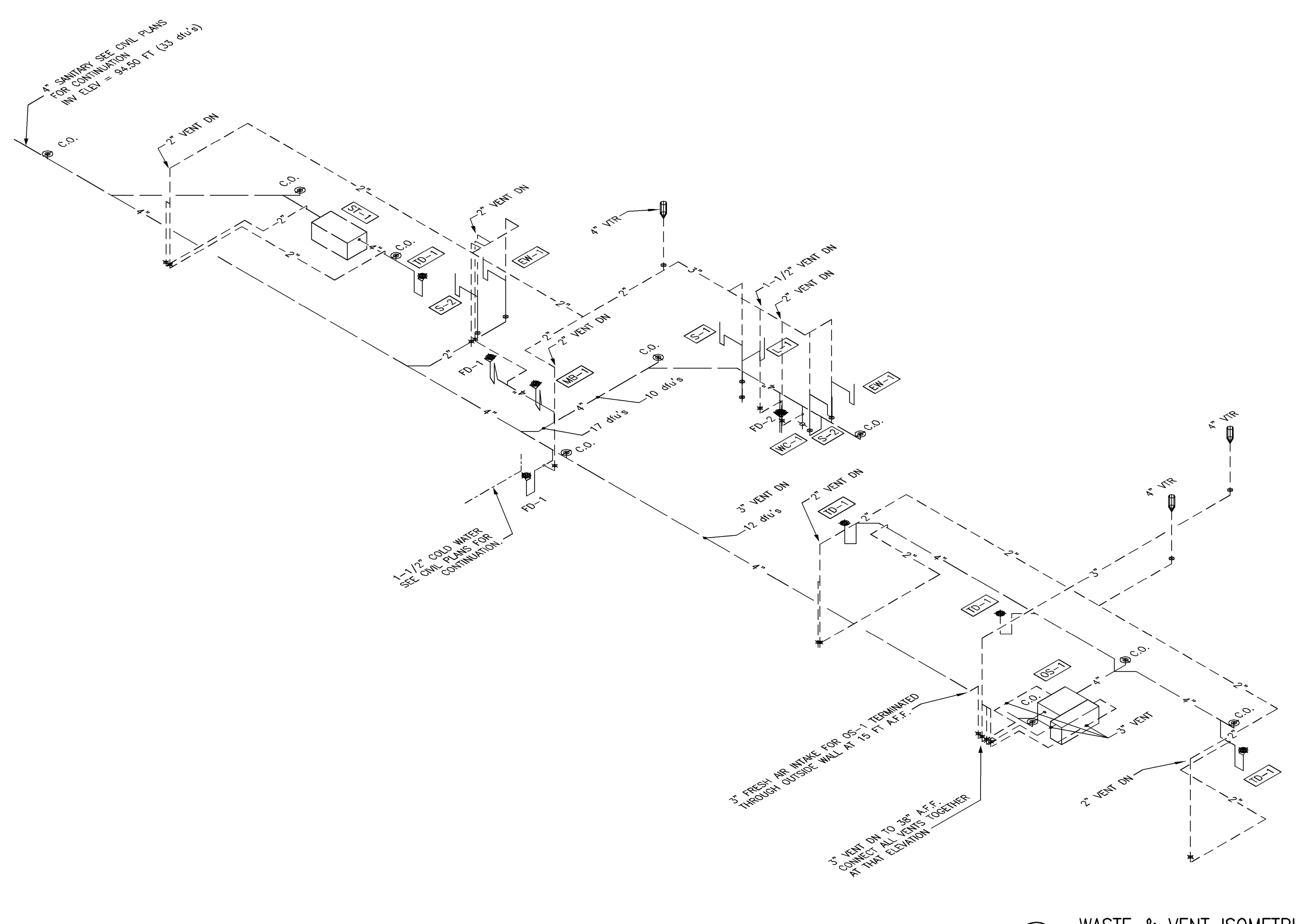
SHEET NO.

P304



1 / P305 SUPPLY ISOMETRIC – AREA E

SCALE: NTS



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" SHALL BE SLOPED AT 1/4" PER FOOT.

2 / P305 WASTE & VENT ISOMETRIC – AREA E

SCALE: NTS

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PROJECT NO.	2013027_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS BID # 313072

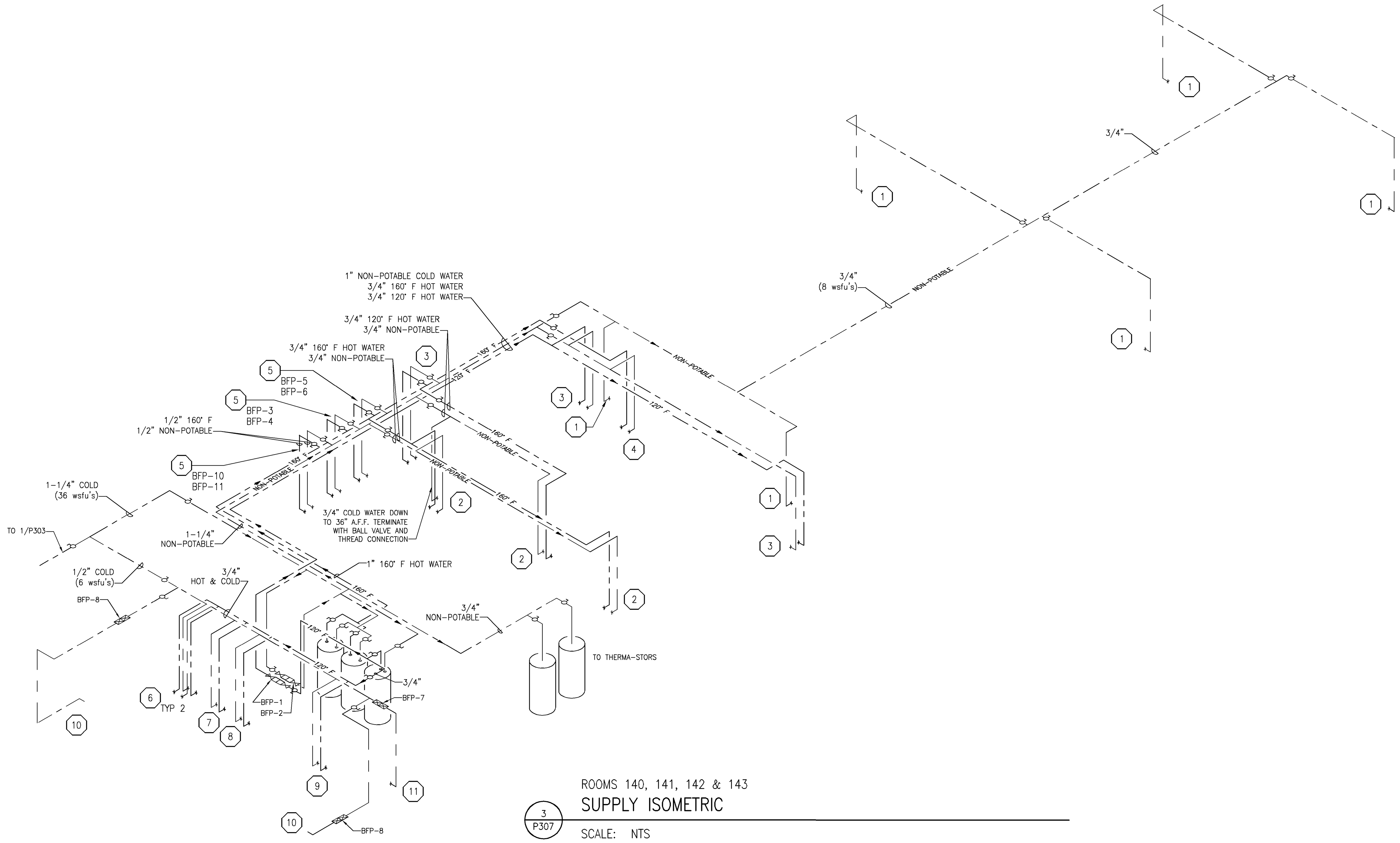
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

PLUMBING SUPPLY, WASTE & VENT ISOMETRICS

SHEET NO.

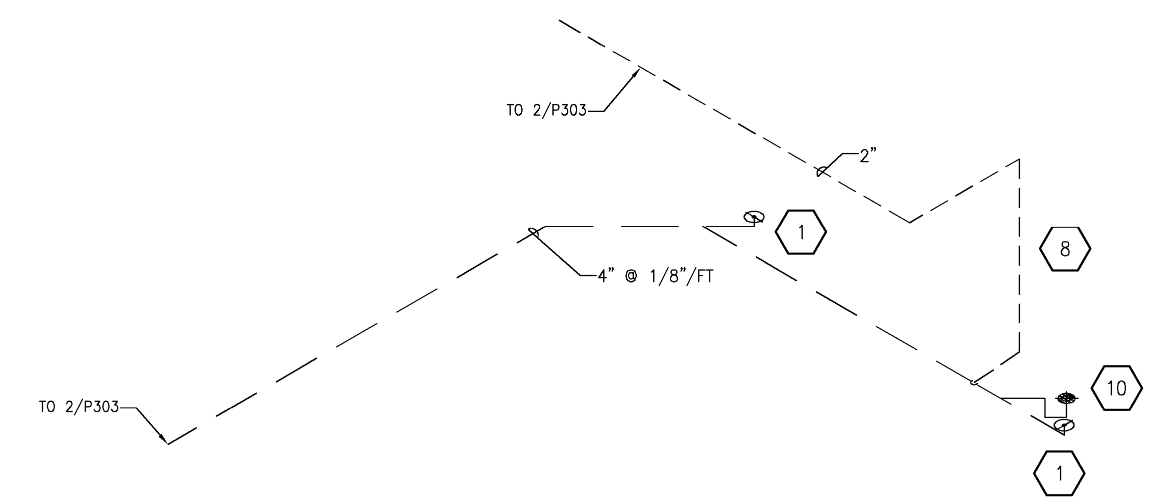
P305

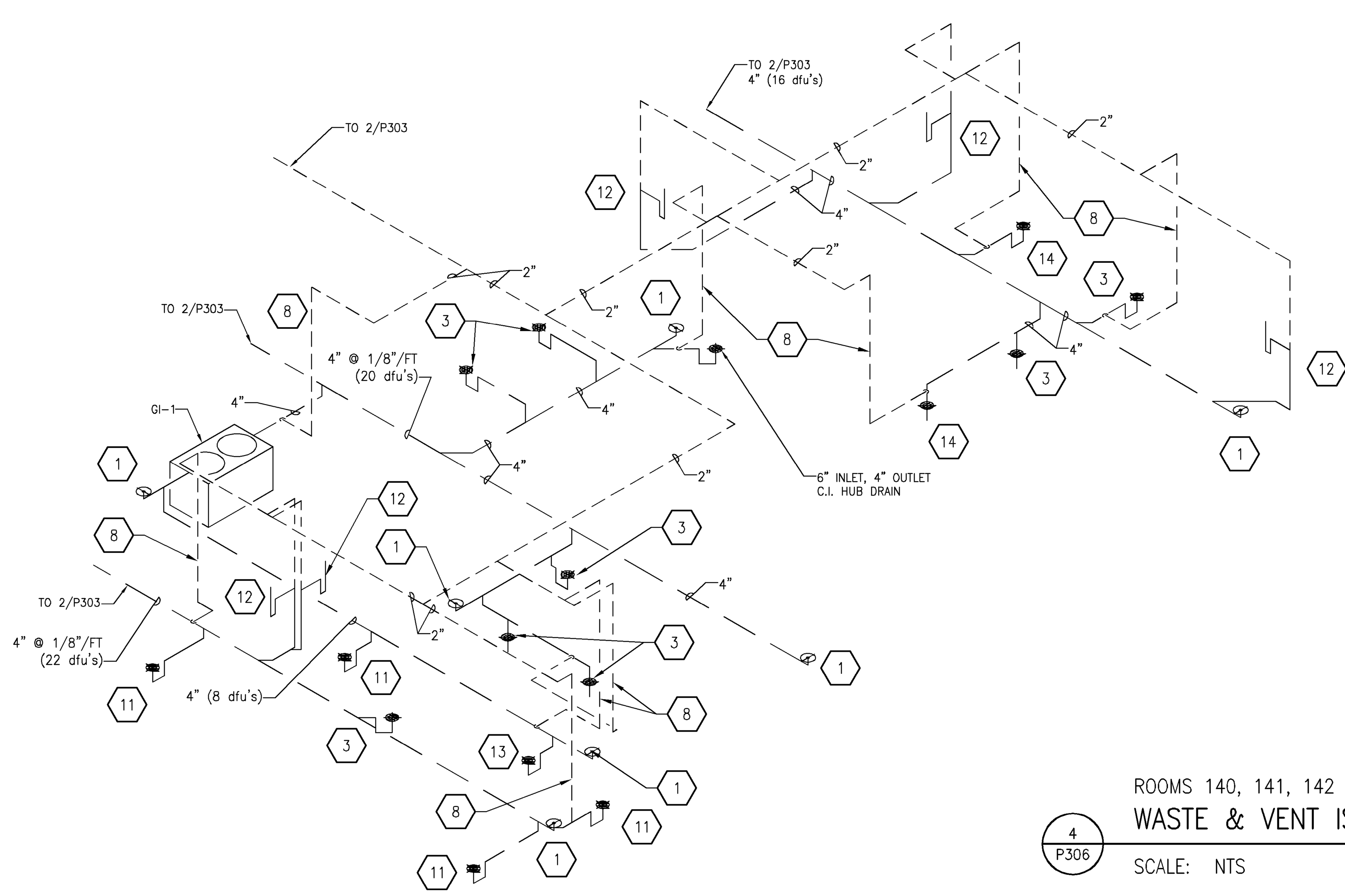


ROOMS 140, 141, 142 & 143
SUPPLY ISOMETRIC
3 / P307
SCALE: NTS

−	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 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 SD-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
WASTE & VENT ISOMETRIC
4 / P306
SCALE: NTS

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

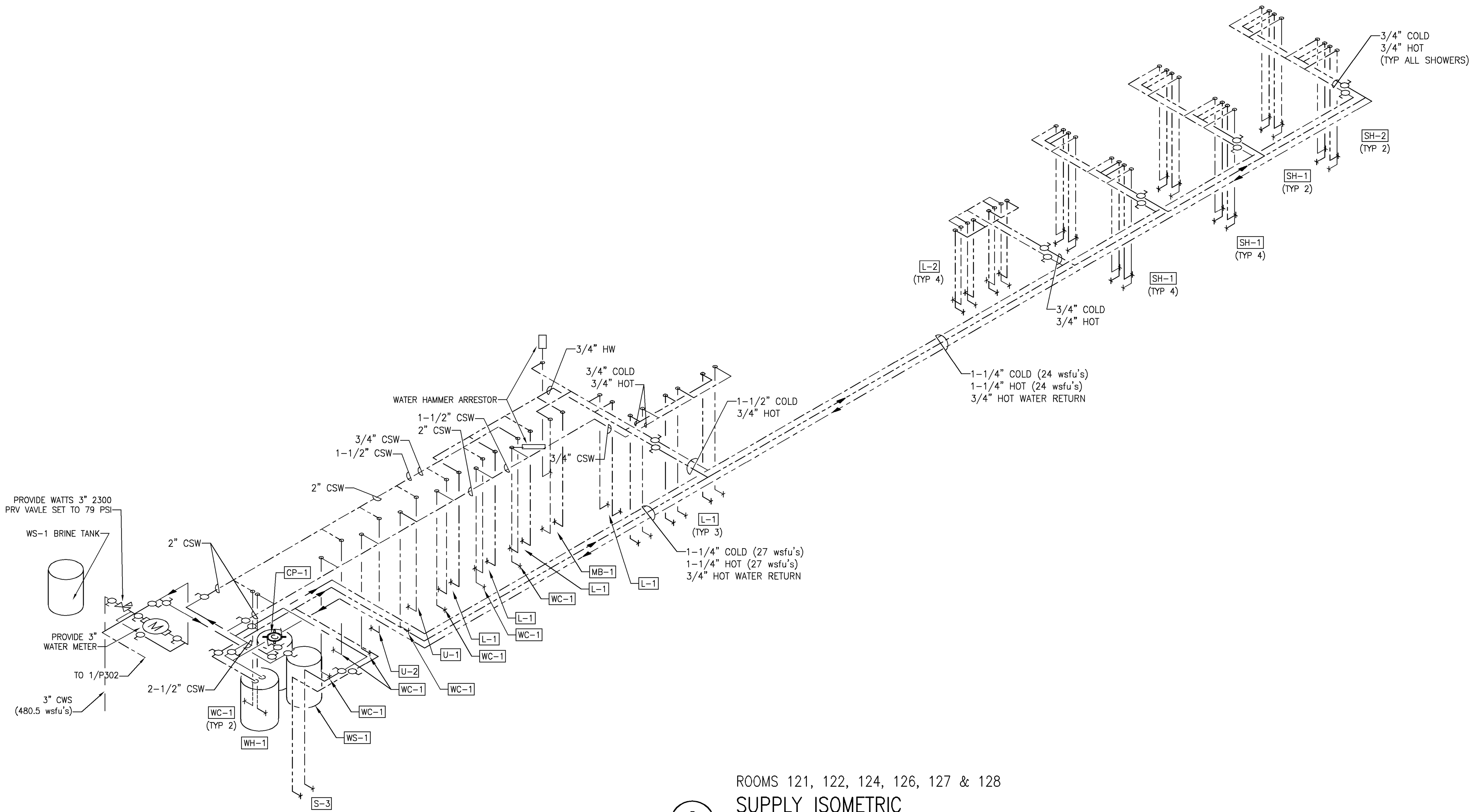
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

PLUMBING SUPPLY, WASTE & VENT ISOMETRICS

SHEET NO.

P306

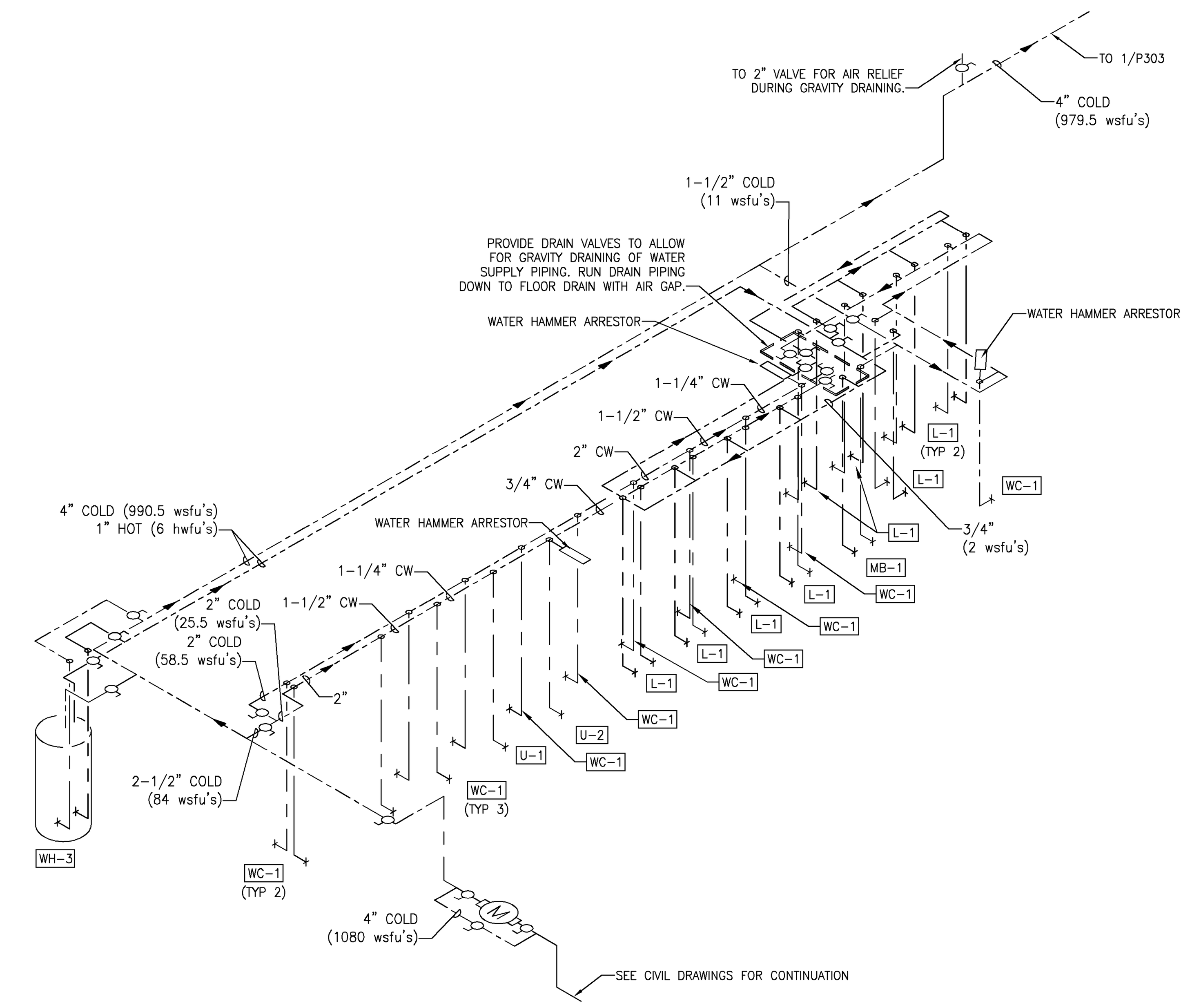


ROOMS 121, 122, 124, 126, 127 & 128

3
P307

SUPPLY ISOMETRIC

SCALE: NTS

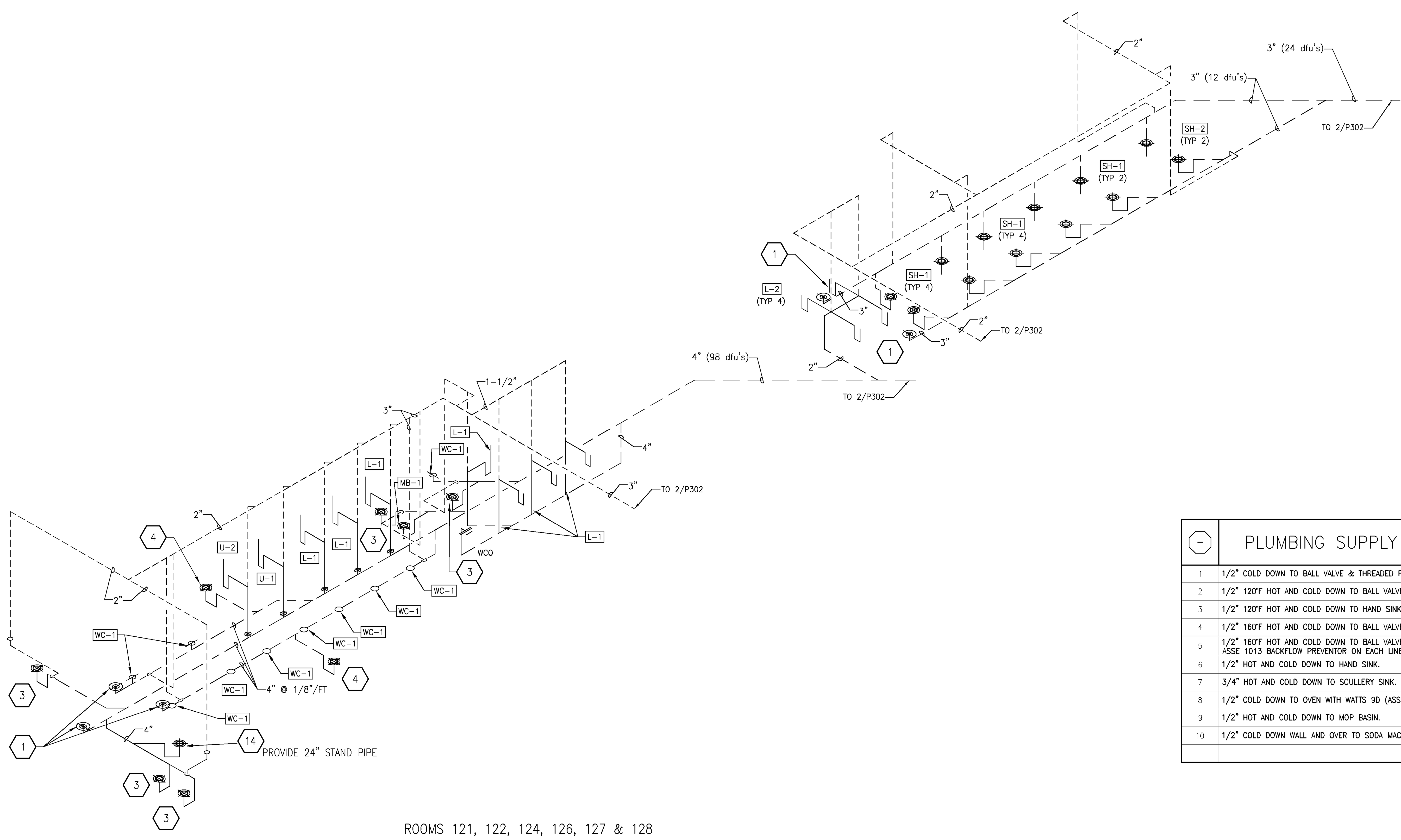


ROOMS 134, 136, 137 & 138 (MIRROR FOR 144, 146, 147 & 148)

1
P307

SUPPLY ISOMETRIC

SCALE: NTS

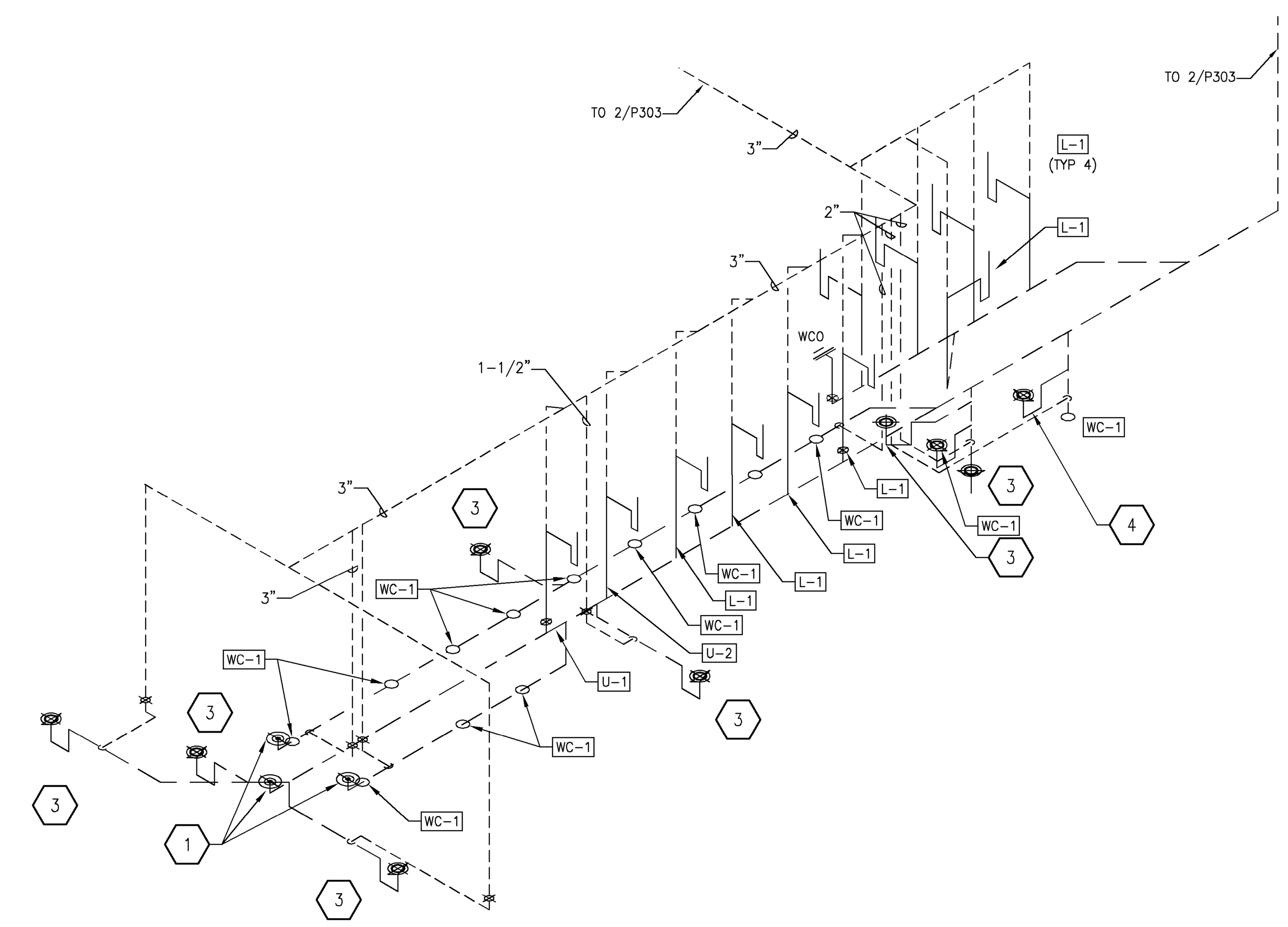


ROOMS 121, 122, 124, 126, 127 & 128

4
P307

WASTE & VENT ISOMETRIC

SCALE: NTS



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

2
P307

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 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 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

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

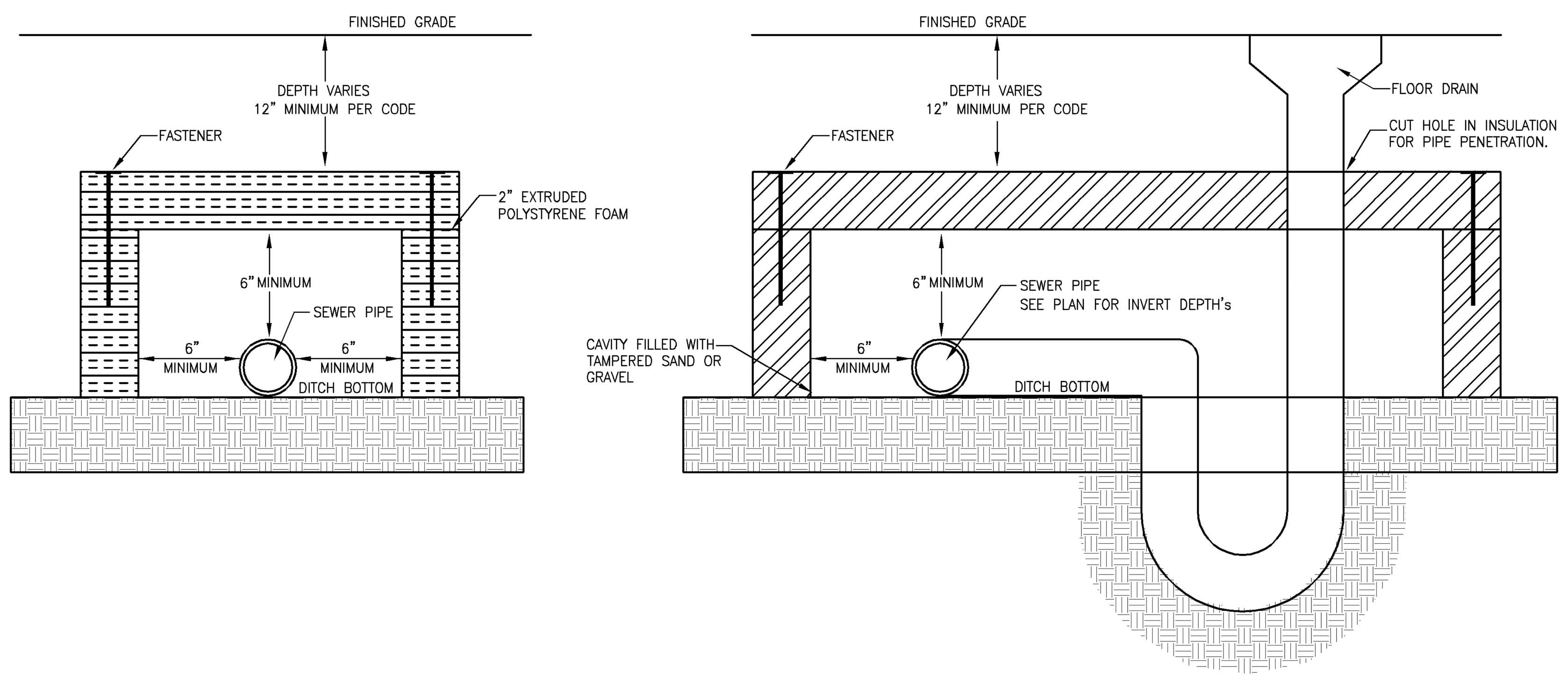
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

PLUMBING SUPPLY, WASTE & VENT ISOMETRICS

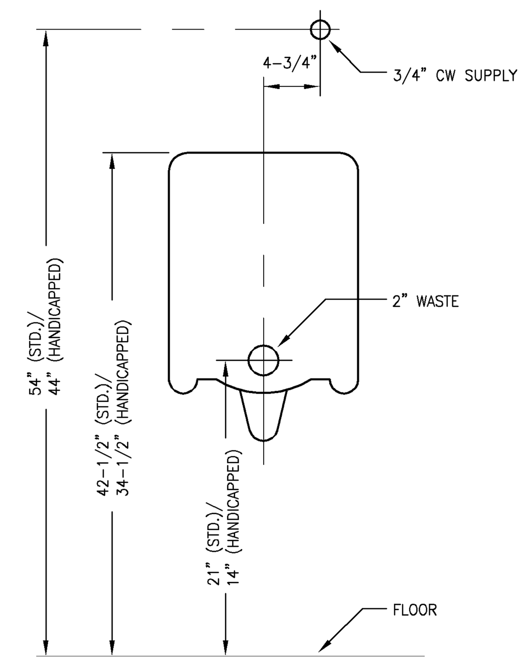
SHEET NO.

P307



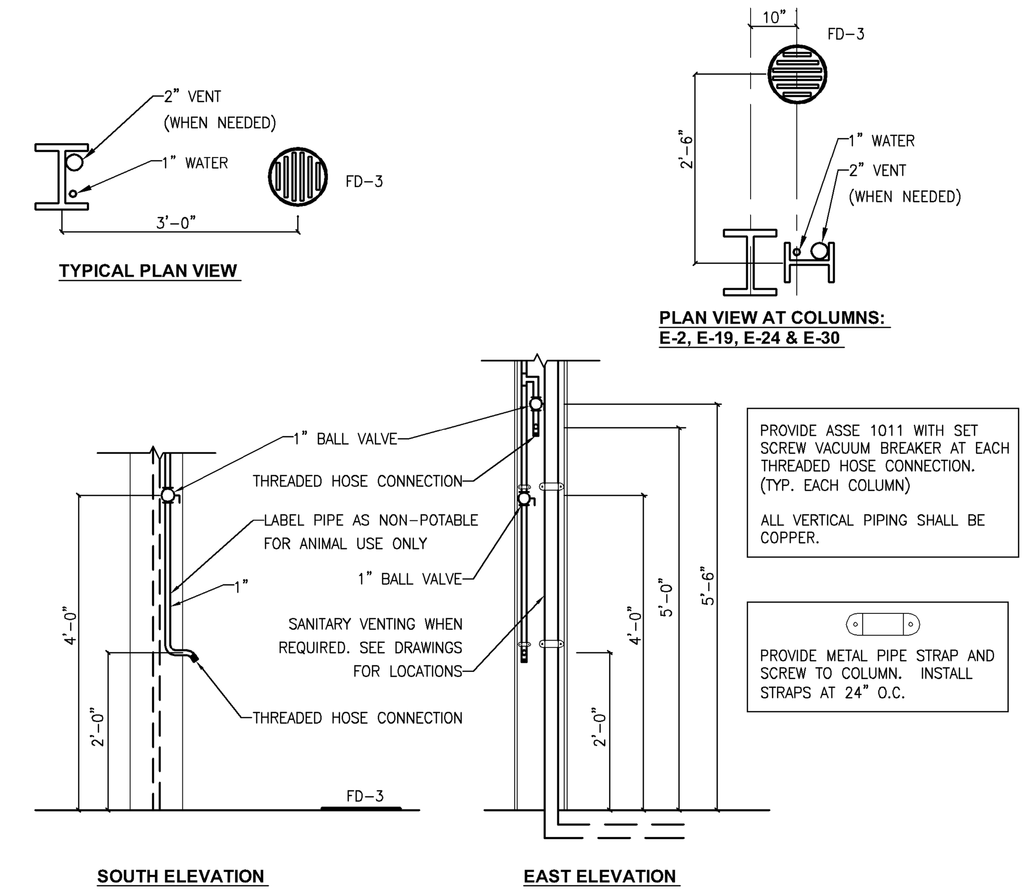
12 P401 SANITARY INSULATION DETAIL

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

— — —	S/W	Waste Pipe Below Grade
— —	V	Vent Pipe
—CCW—	CCW	Conditioned Cold Water
	CW	Cold Water Pipe
	HW	Hot Water Pipe
	HWR	Hot Water Recirculation Pipe
	GV	Gate Valve
	CV	Check Valve
	BV	Ball Valve
	UP	Pipe Up
	DN	Pipe Down
	CP	Capped Pipe
	--	Pipe Union
	--	Pressure Gauge
	--	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

PLUMBING ABBREVIATIONS

EWC	Electric Water Cooler
FD	Floor Drain
SD	Site Drain
WCO	WALL CLEAN OUT
FFCO	FLUSH FLOOR CLEAN OUT

PLUMBING SYMBOLS

WATER HAMMER ARRESTOR
THERMOSTATIC MIXING VALVE
BALL VALVE
FLOW DIRECTION
PRESSURE REGULATING VALVE

1 P401 PLUMBING LEGEND

SCALE: N.T.S.

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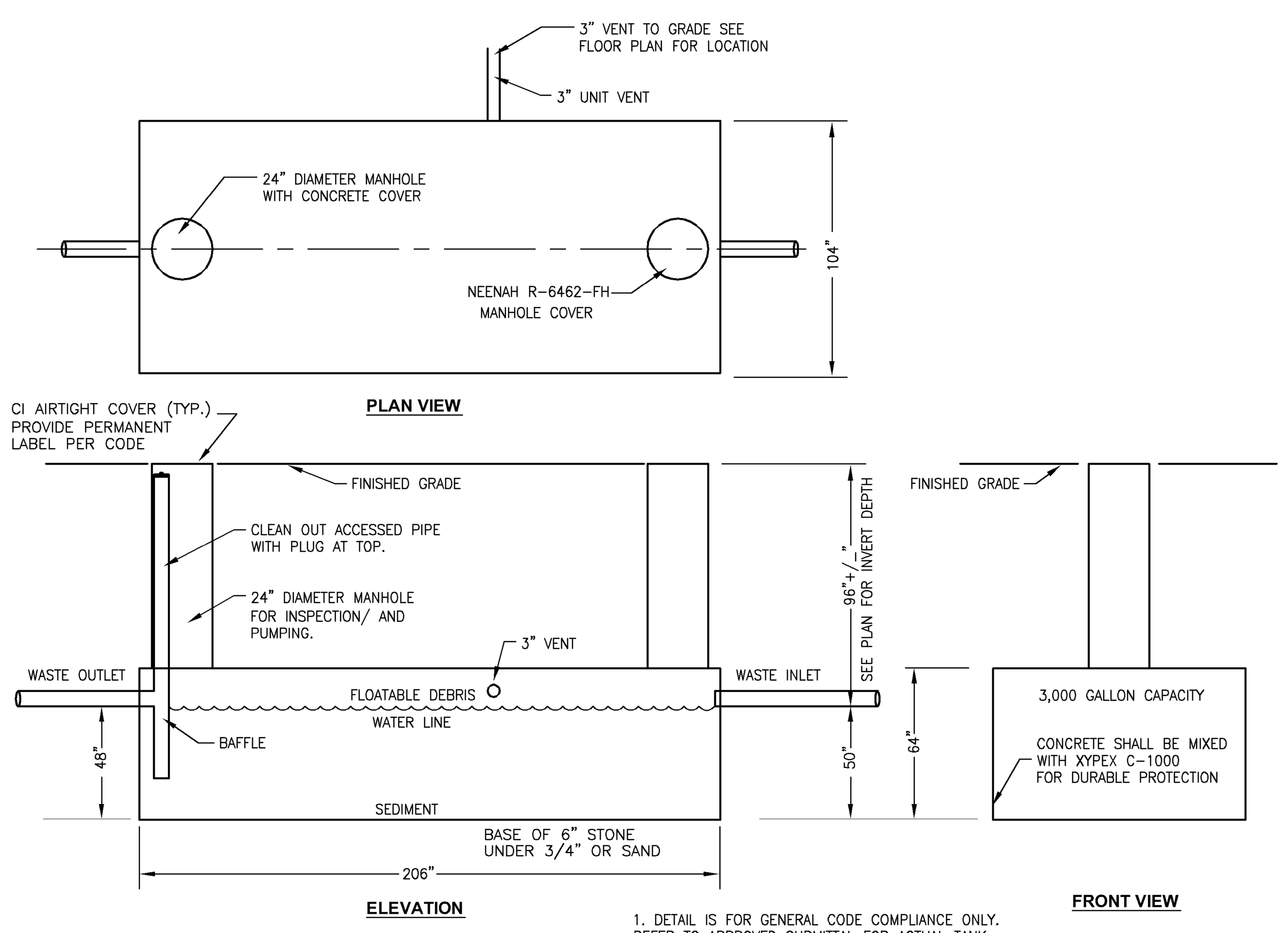
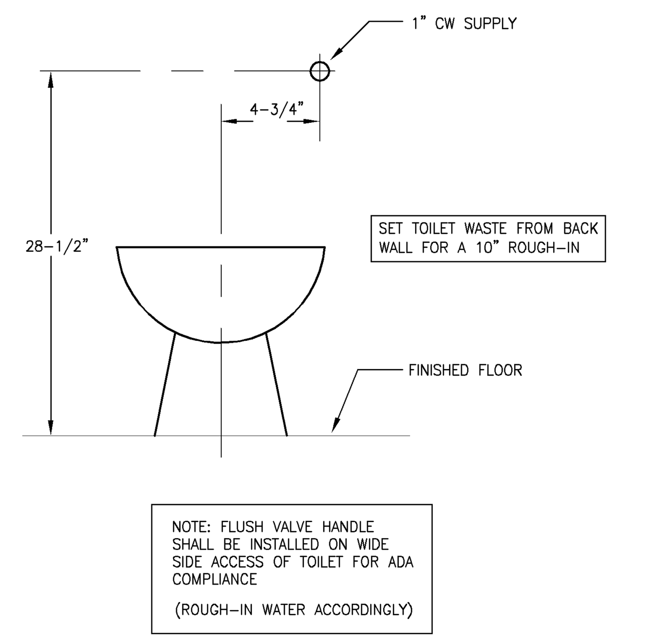


1. DETAIL IS FOR GENERAL CODE COMPLIANCE ONLY. REFER TO APPROVED SUBMITTAL FOR ACTUAL TANK DIMENSIONS.
2. INSTALL BEDDING AND BACKFILL PER WISCONSIN CODE AND MANUFACTURERS REQUIREMENTS.
3. BASE MATERIAL SHALL SUPPORT WEIGHT OF TANK AND BACKFILL WITH OUT SETTLEMENT.

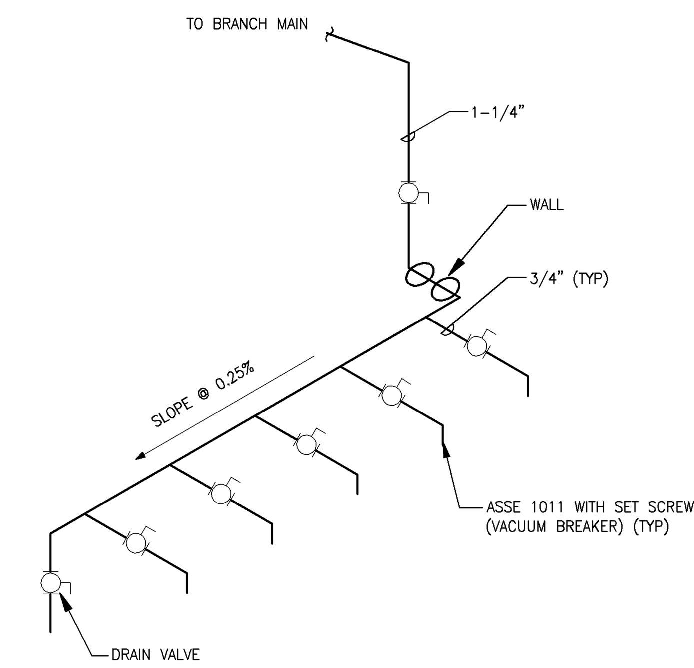
13 P401 SEDIMENT SEPERATOR TANKS (SST-1)

SCALE: N.T.S.



9 P401 FLUSH VALVE WC-FLR MT- ADA

SCALE: N.T.S.

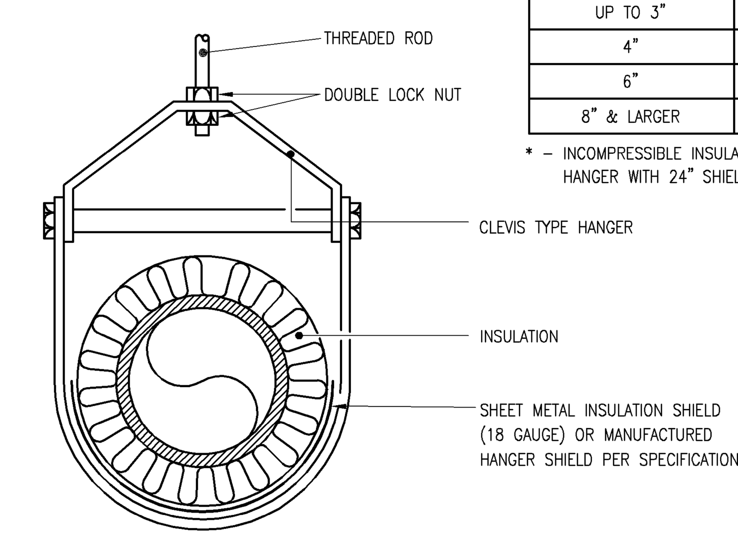


5 P401 WASH BAY DETAIL

SCALE: N.T.S.

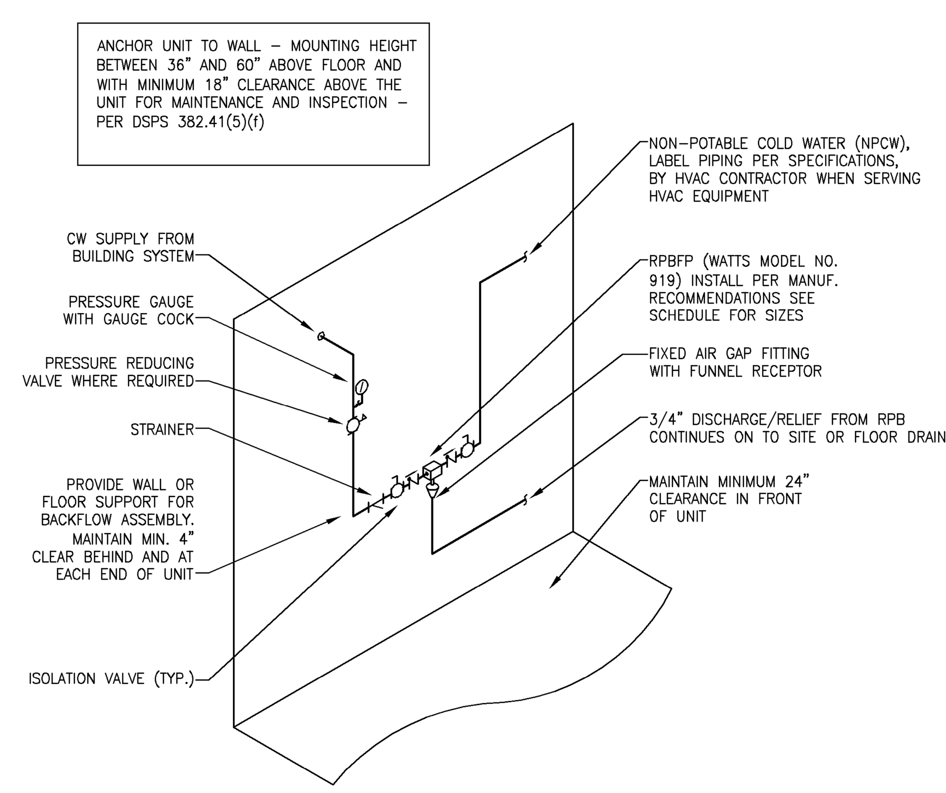
PIPE DIAMETER	SHIELD LENGTH
UP TO 3"	12"
4"	15"
6"	21"
8" & LARGER	*

* - INCOMPRESSIBLE INSULATING BLOCK AT HANGER WITH 24" SHIELD.



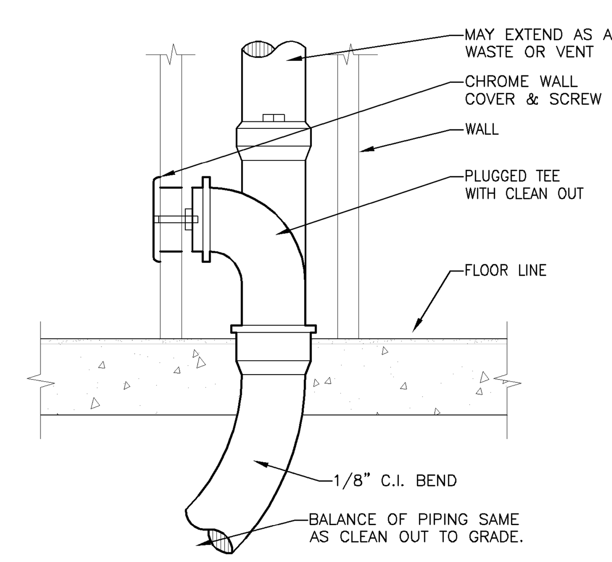
2 P401 INSULATED PIPE SUPPORT

SCALE: N.T.S.



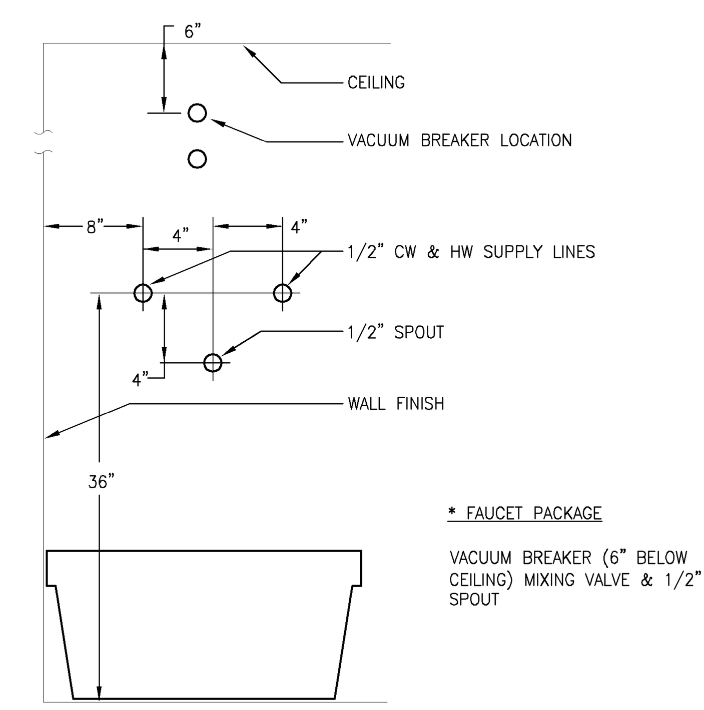
10 P401 BACKFLOW DETAIL (MILK PARLOR)

SCALE: N.T.S.



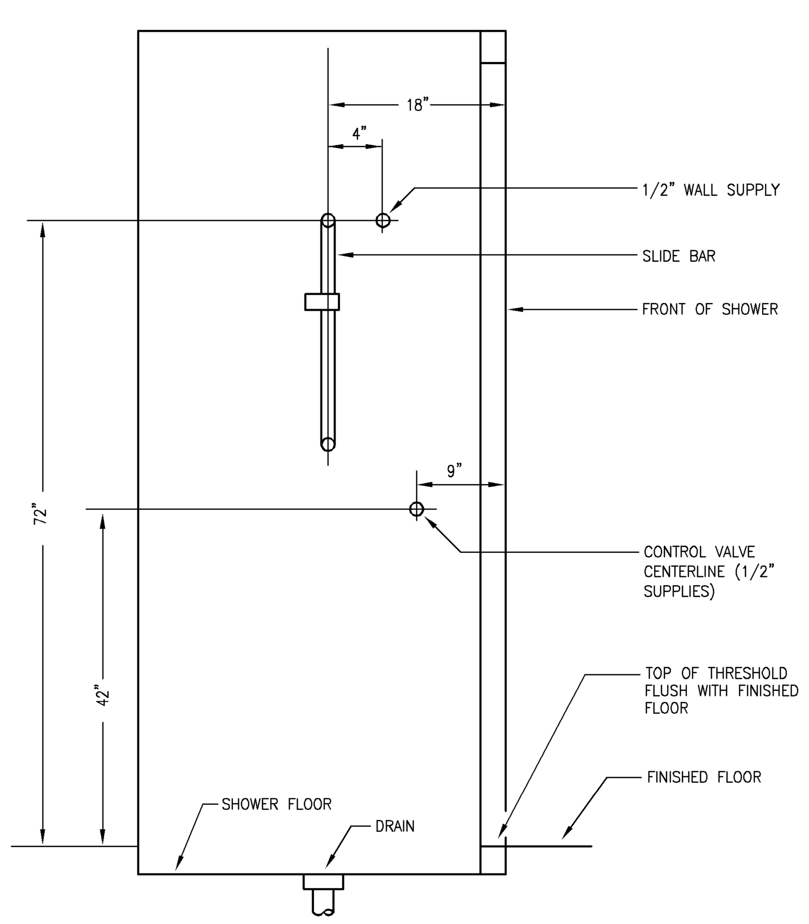
6 P401 WALL CLEAN-OUT DETAIL (WCO)

SCALE: N.T.S.



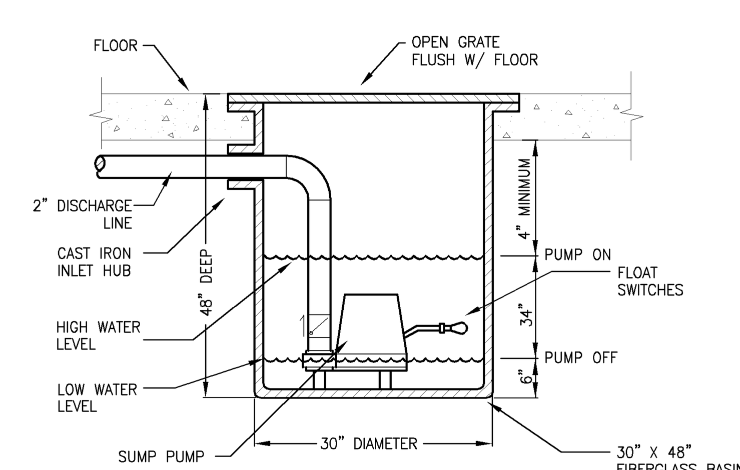
3 P401 MOP BASIN

SCALE: N.T.S.



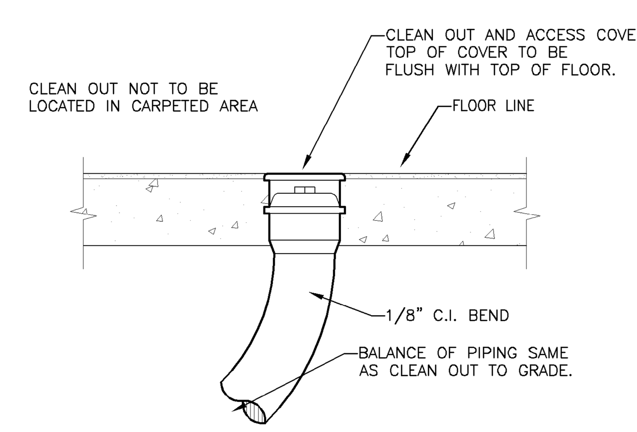
14 P401 ADA SHOWER

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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ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

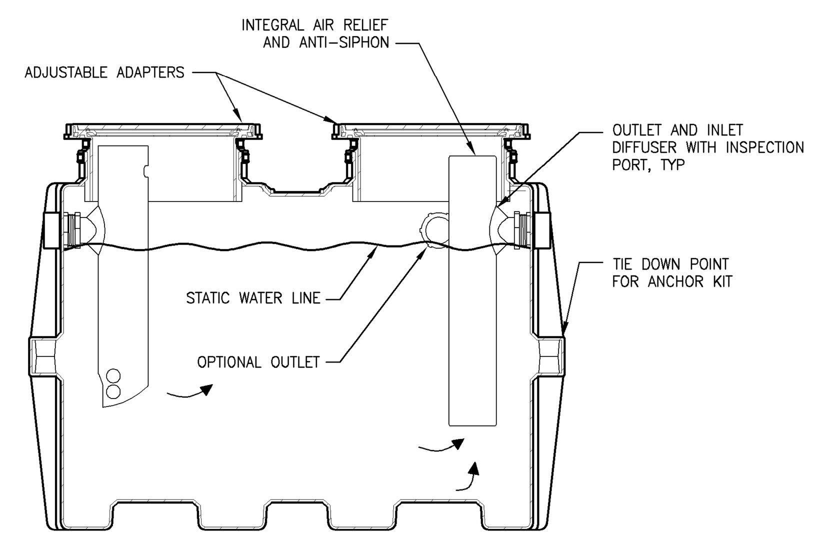
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

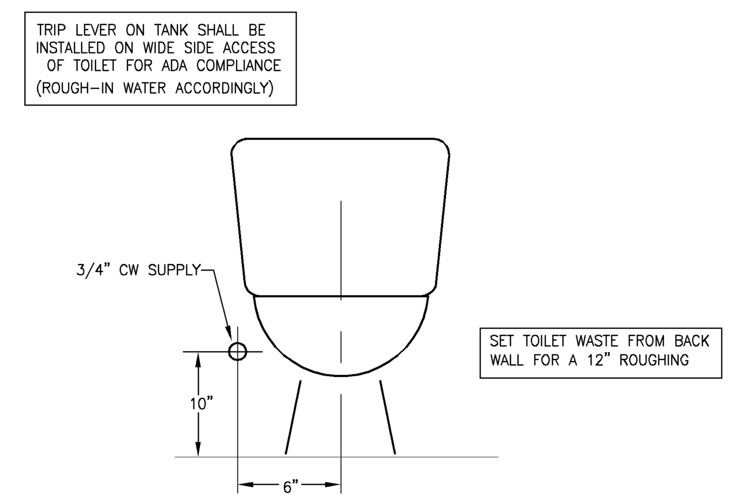
PLUMBING DETAILS

SHEET NO.

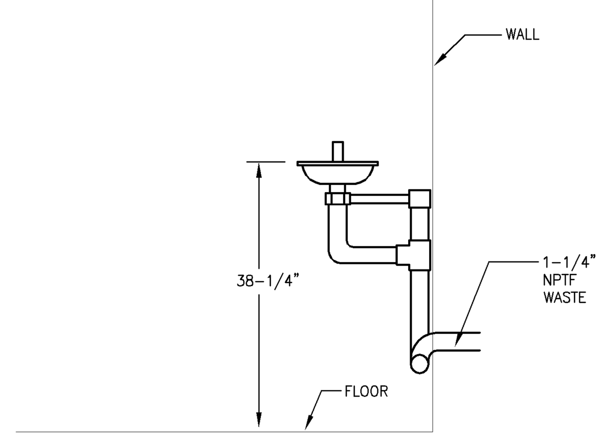
P401



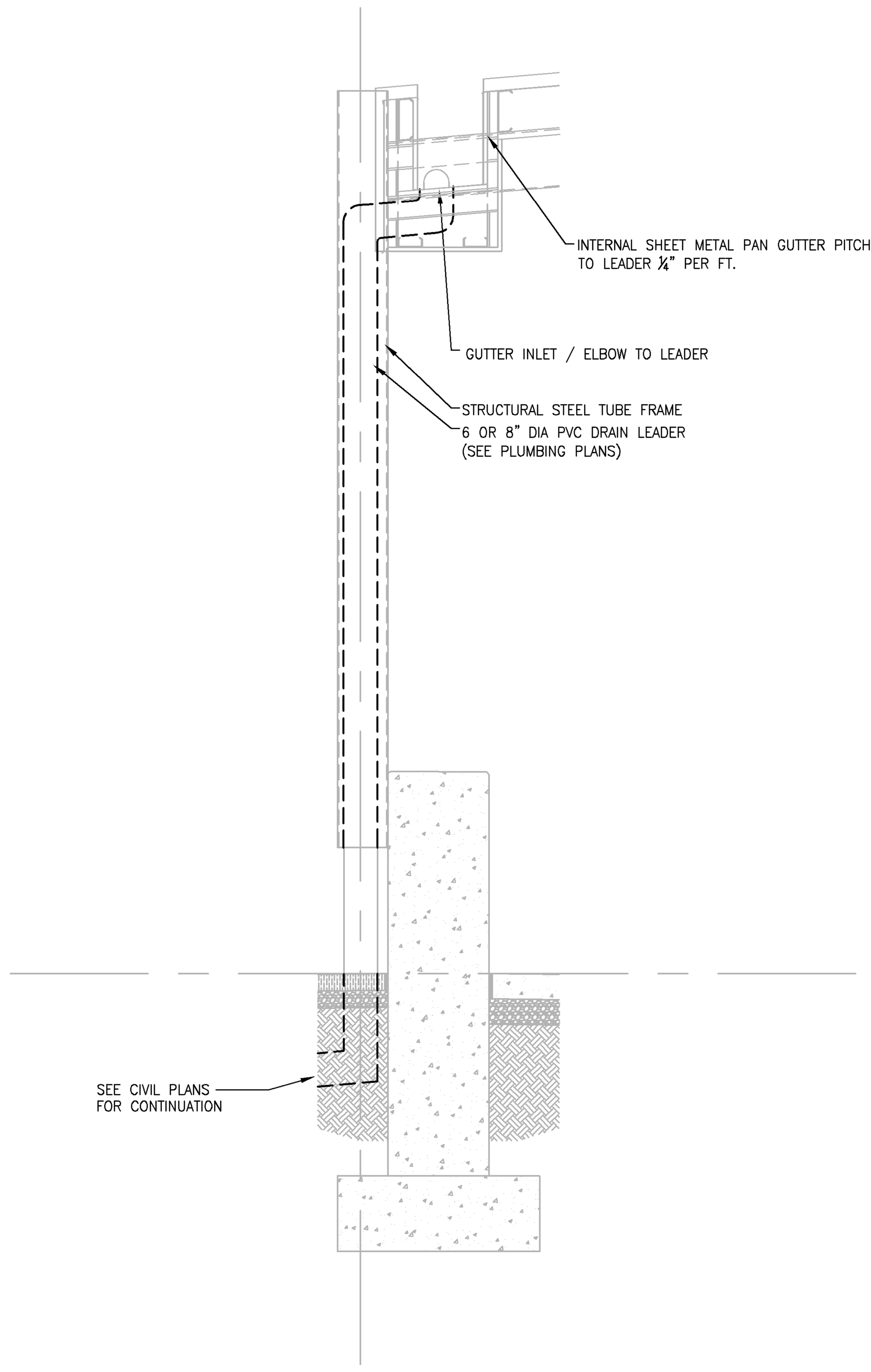
11 P402 GREASE INTERCEPTOR
SCALE: N.T.S.



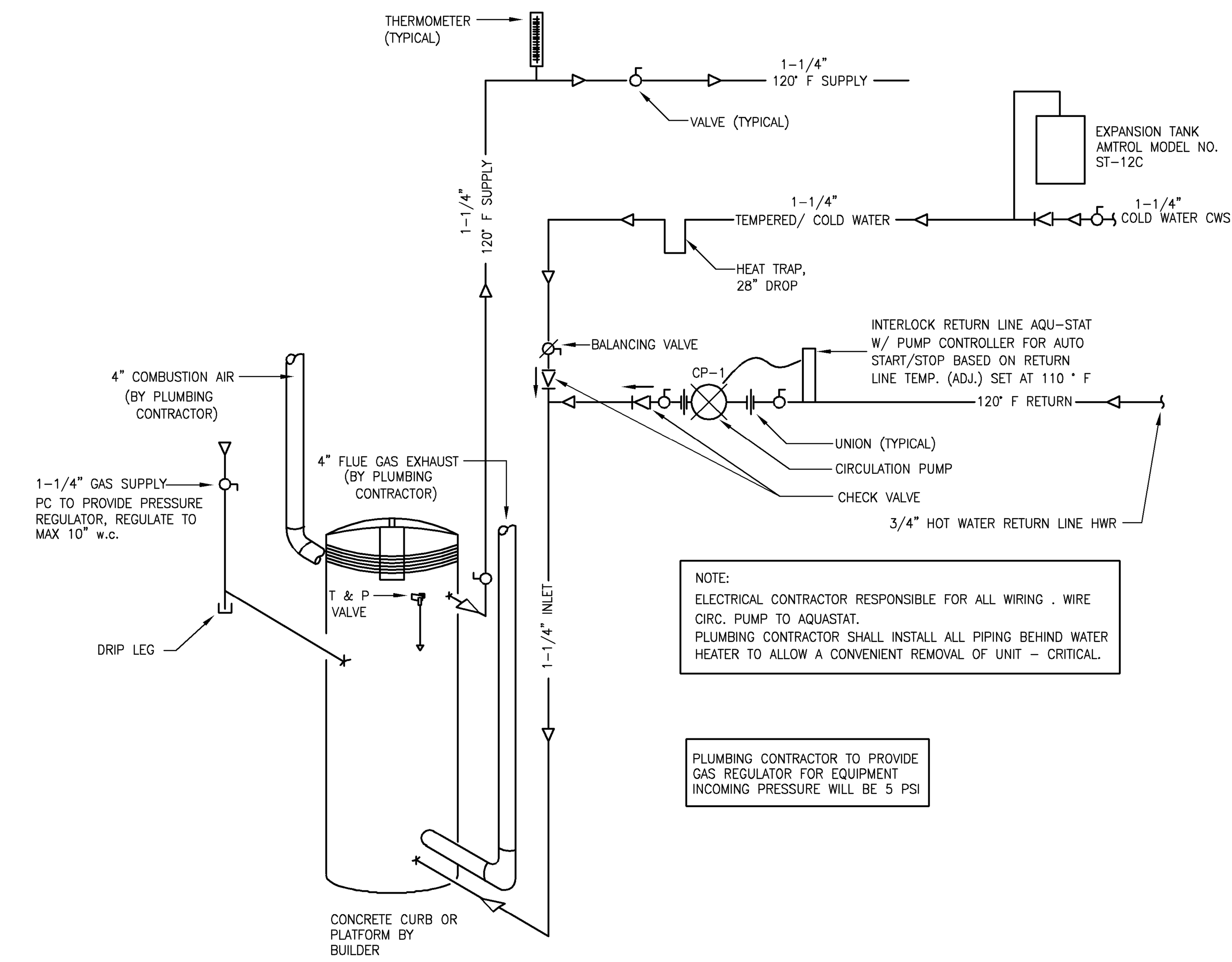
7 P402 WC-TANK (PRESSURE ASSISTED)
SCALE: NONE



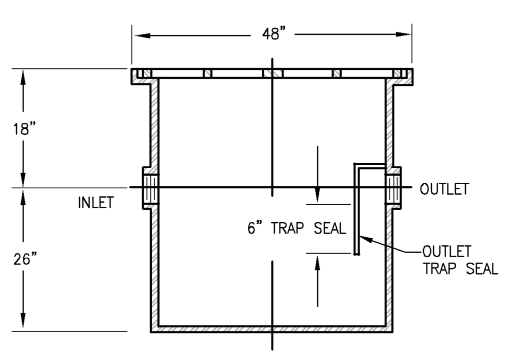
8 P402 EMERGENCY DRENCH SHOWER/EYE WASH
SCALE: N.T.S.



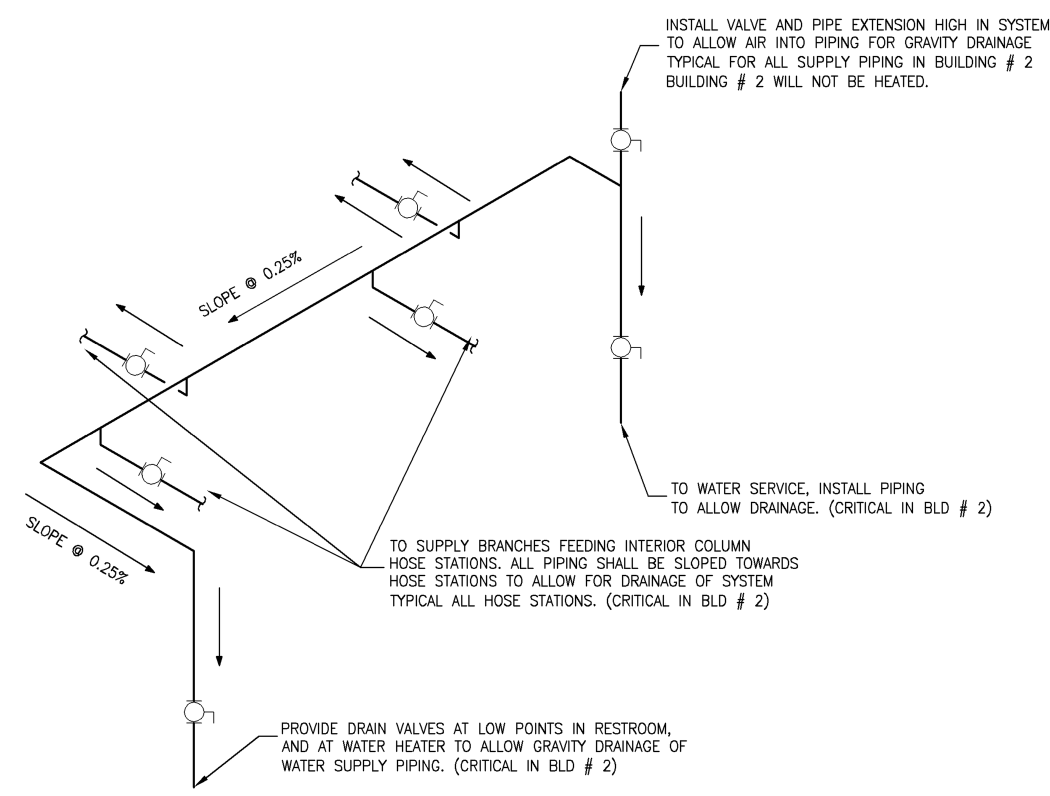
4 P402 STORM WATER LEADER AT COLUMN
SCALE: NONE



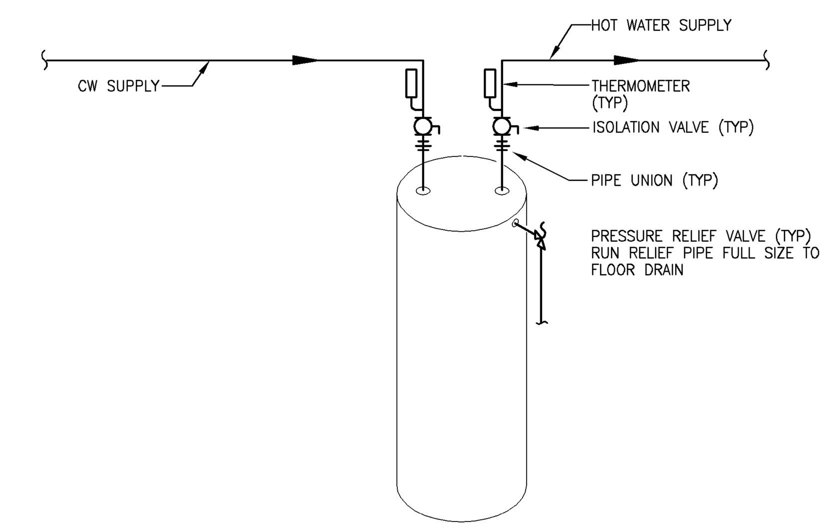
1 P402 WATER HEATER SYSTEM DETAIL (WH-1)
SCALE: N.T.S.



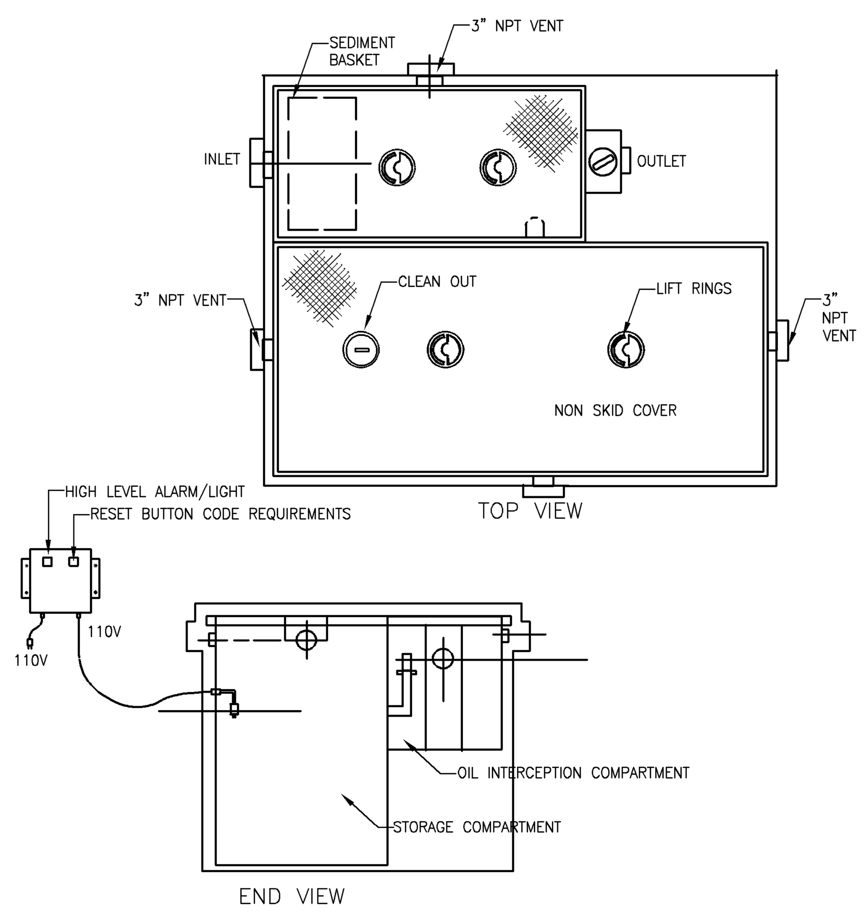
9 P402 SAND TRAP
SCALE: N.T.S.



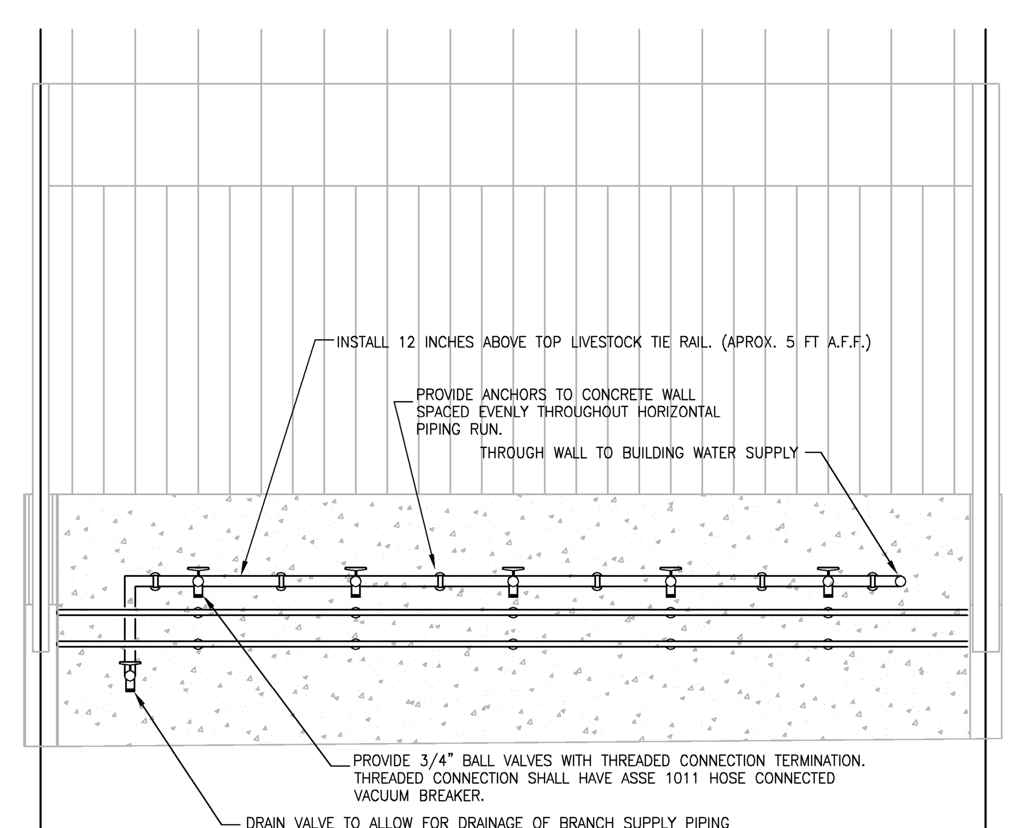
5 P402 GENERAL PIPING DETAIL
SCALE:



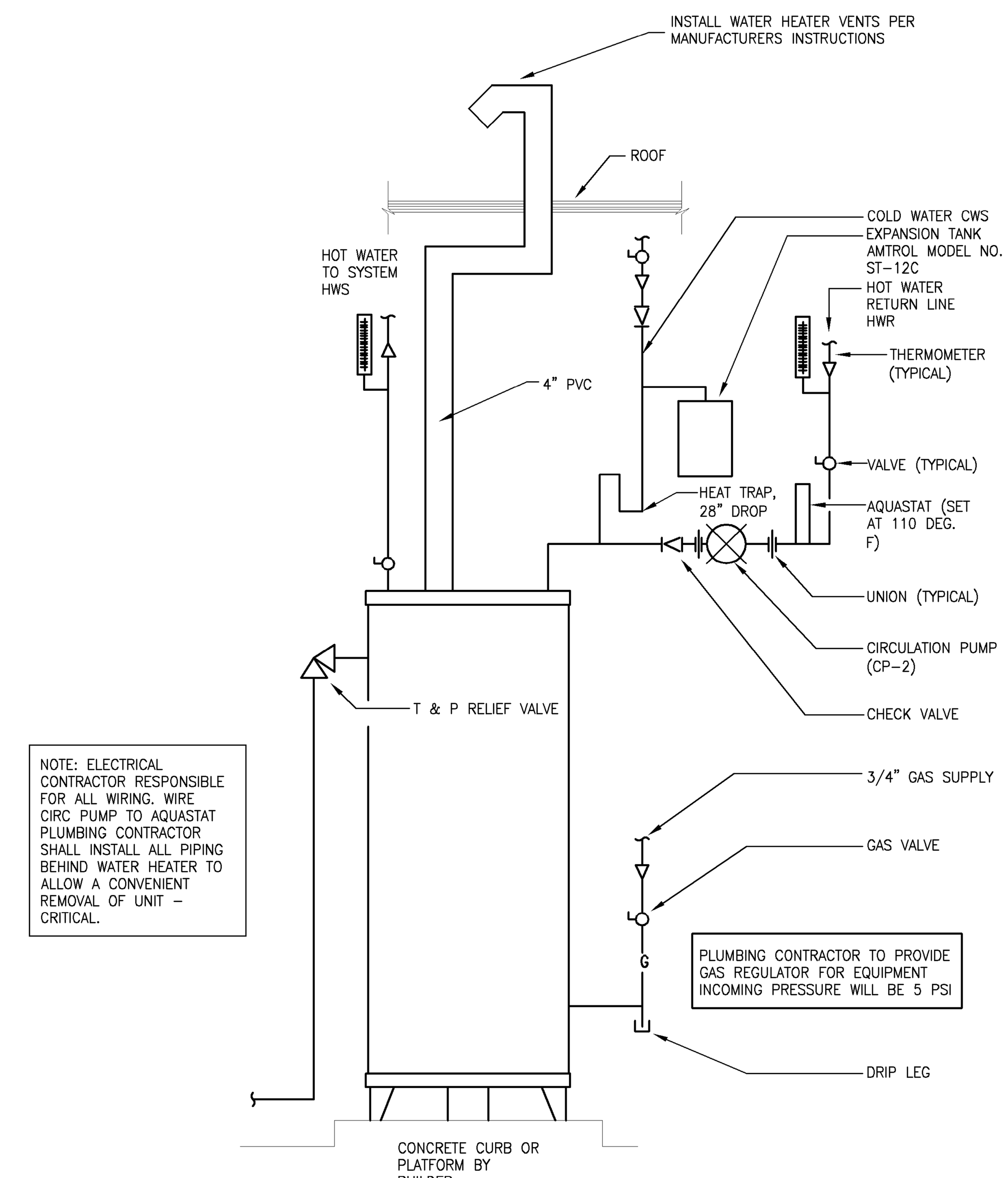
2 P402 WATER HEATER DETAIL (WH-3, WH-4)
SCALE: NONE



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



6 P402 WASH BAY ELEVATION DETAIL
SCALE:



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

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 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 / P501 — 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 / P501 — 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 / P501 — 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 (INTERMITENT 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

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

1. FIXTURES CONNECTED TO GREASE INTERCEPTOR SERVING CONCESSIONS BUILDING 2 AREA–C.

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 (INTERMITENT 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 / P501 — GREASE SEPERATOR SIZING CALCULATIONS
SCALE: NONE

NEW WATER DISTRIBUTION & WASTE FIXTURE UNIT DESIGN

GENERAL		WATER						WASTE		FIXTURE CONNECTIONS			
IDENTITY	NO. OF FIXTURES	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"
SINK (S–1)	7	2	2	3	14	14	21	2	14	1/2"	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"	1–1/2"
SHOWER (SH–1)	12	2	2	3	24	24	36	2	24	1/2"	1/2"	2"	1–1/2"
FLOOR DRAIN (FD–1)	28	–	–	–	–	–	–	4	112	–	–	4	2
FLOOR DRAIN (FD–2)	12	–	–	–	–	–	–	2	24	–	–	2	1–1/2"
FLOOR DRAIN (FD–3)	81	–	–	–	–	–	–	4	324	–	–	4	2"
FLOOR DRAIN (FD–4)	27	–	–	–	–	–	–	4	108	–	–	4	2"
FLOOR SINK (FS–1)	8	–	–	–	–	–	–	4	32	–	–	4	2"
FLOOR SINK (FS–2)	1	–	–	–	–	–	–	4	4	–	–	4	2"
TRENCH DRAIN (TD–1)	16	–	–	–	–	–	–	4	64	–	–	4	2"
HUB DRAIN (HD–1)	5	–	–	–	–	–	–	3	18	–	–	3	1–1/2"
HOSE STATION (HS–1)	81	–	4	4	–	324	324	–	–	–	3/4"	–	–
WASH BAY (WB–1)	10	–	20	20	–	200	200	–	–	–	1"	–	–
					68 WSFU	907 WSFU	950 WSFU		1070 DFU				

1 / P501 — NEW FIXTURE UNIT SCHEDULE
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	
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 / P501 — AREA "E" 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	160° F	TBV	TBV	TBV	–	–	4
7	EXISTING UNIT	MECHANICAL ROOM # 142	–	–	–	–	NG	50° F	160° 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
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 / P501 — WATER HEATER SCHEDULE
SCALE: NONE

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

PLUMBING SCHEDULES AREAS A-D

SHEET NO.

P501

SAND TRAP SCHEDULE

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

REMARKS:
1. BASED ON JR SMITH 8811 SERIES

AREA "E"
6 / P502 SAND TRAP SCHEDULE
SCALE: NONE

NEW WATER DISTRIBUTION & WASTE FIXTURE UNIT DESIGN

GENERAL		WATER						WASTE		FIXTURE CONNECTIONS			
IDENTITY	NO. OF FIXTURES	SUPPLY UNITS EA.			TOTAL WSFU			FIXTURE	TOTAL DRAIN	WATER		WASTE	
	TOTAL	HOT	COLD	TOTAL	HOT	COLD	TOTAL	UNIT VALUE	FIXTURE UNITS	CW	HW	VENT	DRAIN
SINK (S-1)	1	1	1	1.5	1	1	1.5	1	1	1/2"	1/2"	1-1/2"	1-1/2"
SINK (S-2)	2	2	2	3	4	4	6	3	6	1/2"	1/2"	1-1/2"	1-1/2"
MOP BASIN (MB-1)	1	2	2	3	2	2	3	3	3	1/2"	1/2"	1-1/2"	2"
LAVATORY (L-1)	1	.5	.5	1	.5	.5	1	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"
TRENCH DRAIN (TD-1)	5	–	–	–	–	–	–	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	–	–	–	–	–	–
					4.5 WFSU	26.5 WFSU	29 WFSU		44 DFU				

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

EMERGENCY FIXTURE TEMPERING VALVE SCHEDULE

TAG	MANUFACTURER	MODEL	SERVICE	EWT	LWT	MINIMUM FLOW (GPM)	MAXIMUM FLOW (GPM)	MAXIMUM PRESUURE 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

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

WATER HEATER SCHEDULE

WH #	QTY	MODEL	LOCATION	ELECTRICAL KW	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL WATTS	EWT	LWT	STORAGE CAPACITY (GALLON)	FLOW RECOVERY	TANK SIZE (DIA." x H") (W"xD"xH")	REMARKS
1	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

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

CIRCULATING PUMP SCHEDULE

CP #	LOCATION	SERVES	TYPE	CAPACITY (GPM)	DISCHARGE HEAD (FEET)	MOTOR HP	MOTOR RPM	MOTOR VOLT	MOTOR PH.	REMARKS
CP-1	MECHANICAL ROOM # 109	DOMESTIC HOT WATER	INLINE CENTRIF.	3	8	1/6	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

AREA "E"
4 / P502 PUMP SCHEDULE
SCALE: NONE

OIL SEPERATOR SCHEDULE

OS #	MODEL	LOCATION	RESIN VESSELS (EACH) QTY	RESIN VESSELS (EACH) CONNECTION SIZE	RESIN VESSELS (EACH) MAX FLOW GPM	TANK UNIT SIZE	TANK STORAGE	REMARKS
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

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

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

PLUMBING SCHEDULES AREA E

SHEET NO.

P502

Xref List: 2013027_01-X-TB_30x42

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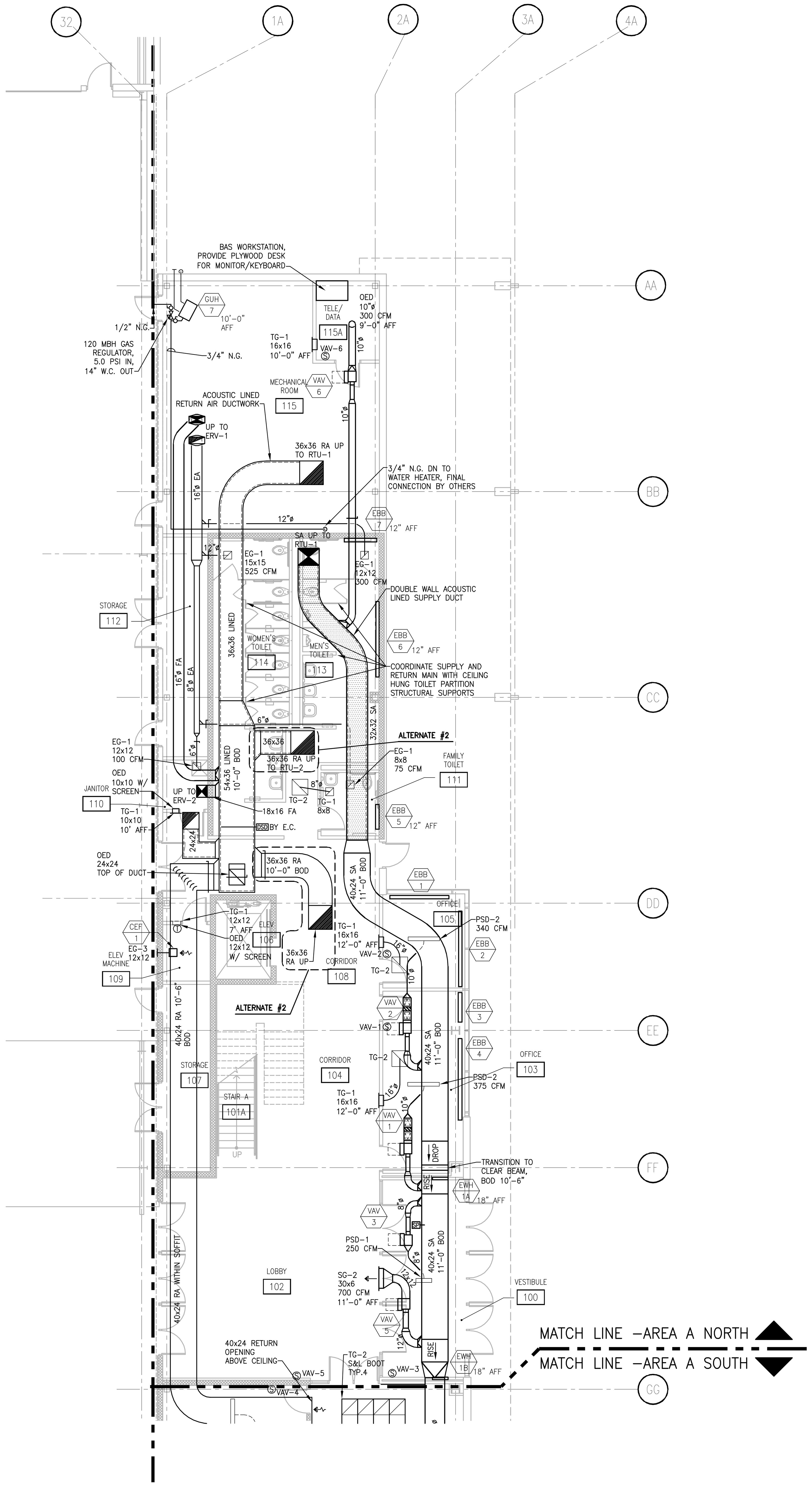
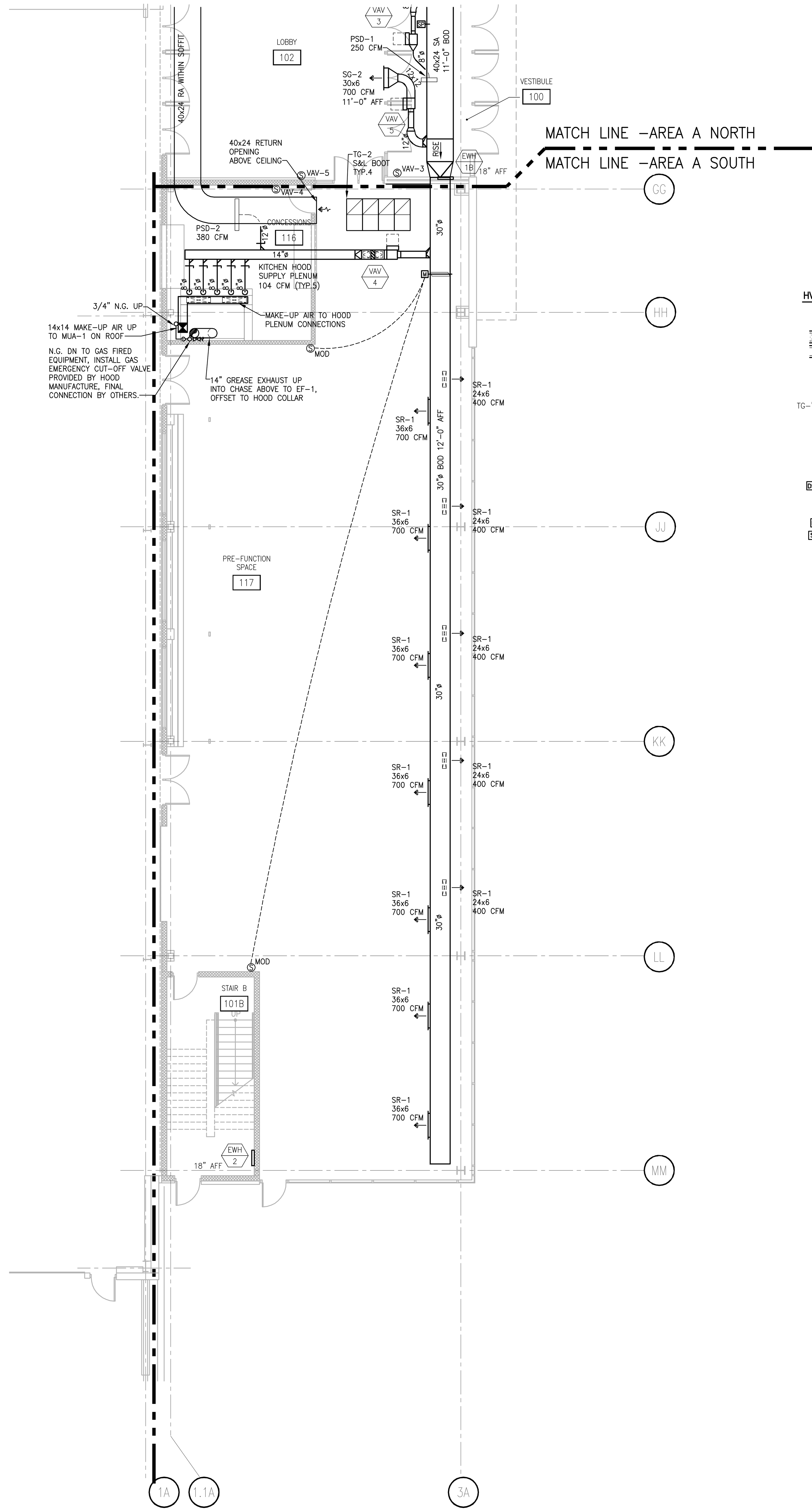


FIRST FLOOR HVAC PLAN – AREA A NORTH

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



FIRST FLOOR HVAC PLAN – AREA A SOUTH

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

HVAC LEGEND

HVAC SYMBOL LEGEND

Double Wall Ductwork
Acoustic Lined Ductwork
SA or OA Duct Drop
SA or OA Duct Riser
RA or EA Duct Drop
RA or EA Duct Riser
TG–"x" RA Plenum Sound/Light Boot
Electric Thermostat
DDC TEMPERATURE SENSOR
CD Ceiling Diffuser
PSD Plenum Slot Diffuser
DSD Duct Smoke Detector
MOD Motor Operated Damper
BD Balancing Damper
FD Fire Damper
SP Static Pressure Sensor
EQUIPMENT TAG

PIPING SYMBOL LEGEND

Pressure Reducing Valve
Piping – Top Take–Off
Piping – Bottom Take–Off
Ball Valve
Capped Pipe

AIR DEVICE TAGS

TAG–#
SIZE
DESIGN CFM Air Device Plan Tag

SG	Supply Grille	SD	Supply Diffuser
RG	Return Grille	PSD	Plenum Slot Diffuser
EG	Exhaust Grille	CD	Ceiling Diffuser
TG	Transfer Grille	SR	Supply Register

ABBREVIATIONS

AD	Access Door
AFF	Above Finished Floor
BDD	Backdraft Damper
BOD	Bottom of Duct
BOP	Bottom of Pipe
CUH	Cabinet Unit Heater
DSD	Duct Smoke Detector
EBB	Electric Baseboard
E.C.	Electrical Contractor
EF	Exhaust Fan
EWH	Electric Wall Heater
EXH	Exhaust
G.C.	General Contractor
M.C.	Mechanical Contractor
NC	Normally Closed
NO	Normally Open
OA	Outside Air
OED	Open End Duct
P.C.	Plumbing Contractor
RA	Return Air
SA	Supply Air
T.C.C.	Temperature Control Contractor
TCV	Temperature Control Valve
TOD	Top of Duct
TOP	Top of Pipe
UH	Unit Heater
VAV	Variable Air Volume

GENERAL NOTES

THIS BUIDLING 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.

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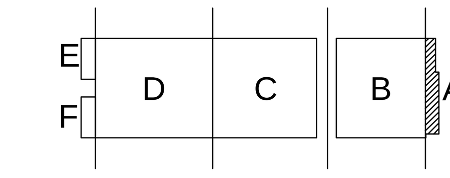
PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



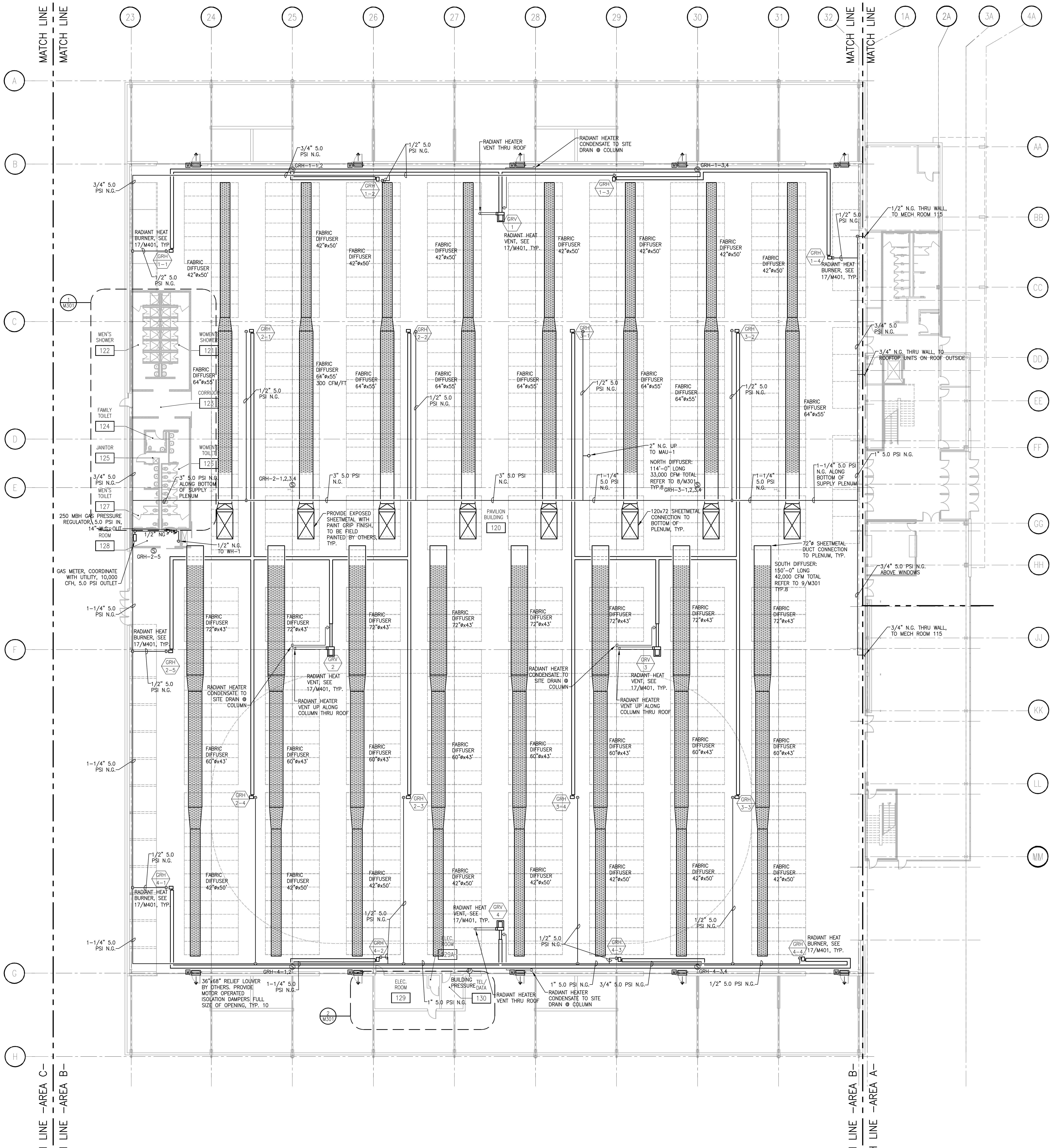
KEY PLAN

SHEET TITLE

FIRST FLOOR HVAC PLAN AREA A - BLD 1

SHEET NO.

M201A



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

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GENERAL NOTES

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

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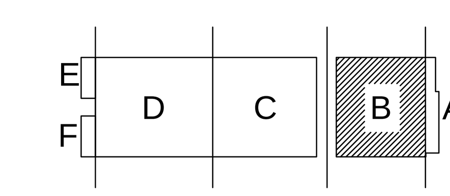
PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



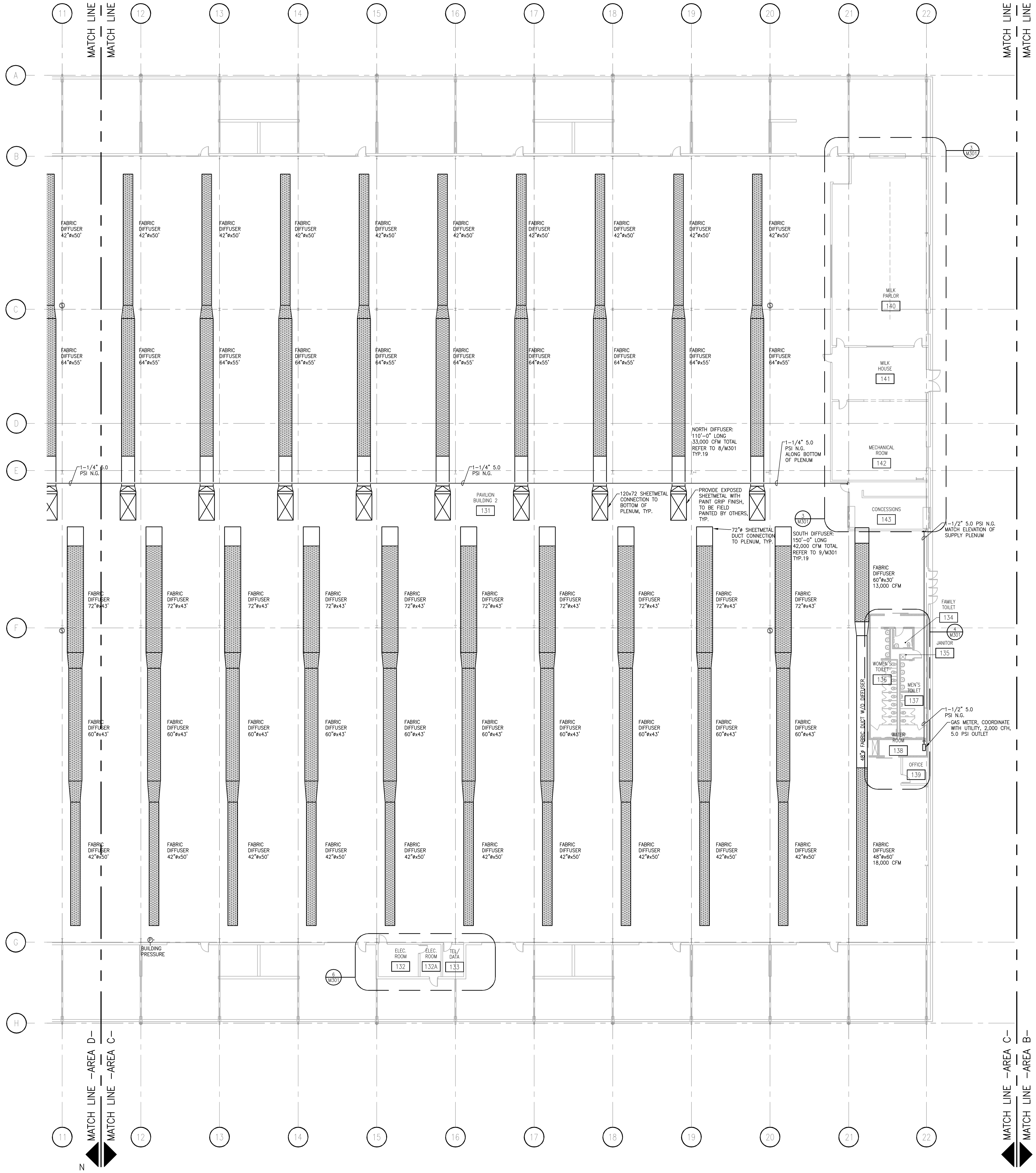
KEY PLAN

SHEET TITLE

FIRST FLOOR HVAC PLAN AREA B - BLD 1

SHEET NO.

M201B



1 M201C FIRST FLOOR HVAC PLAN - AREA C
SCALE: 1/16"= 1'-0"

GENERAL NOTES

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

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

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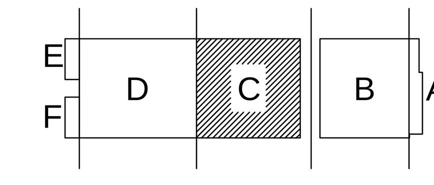


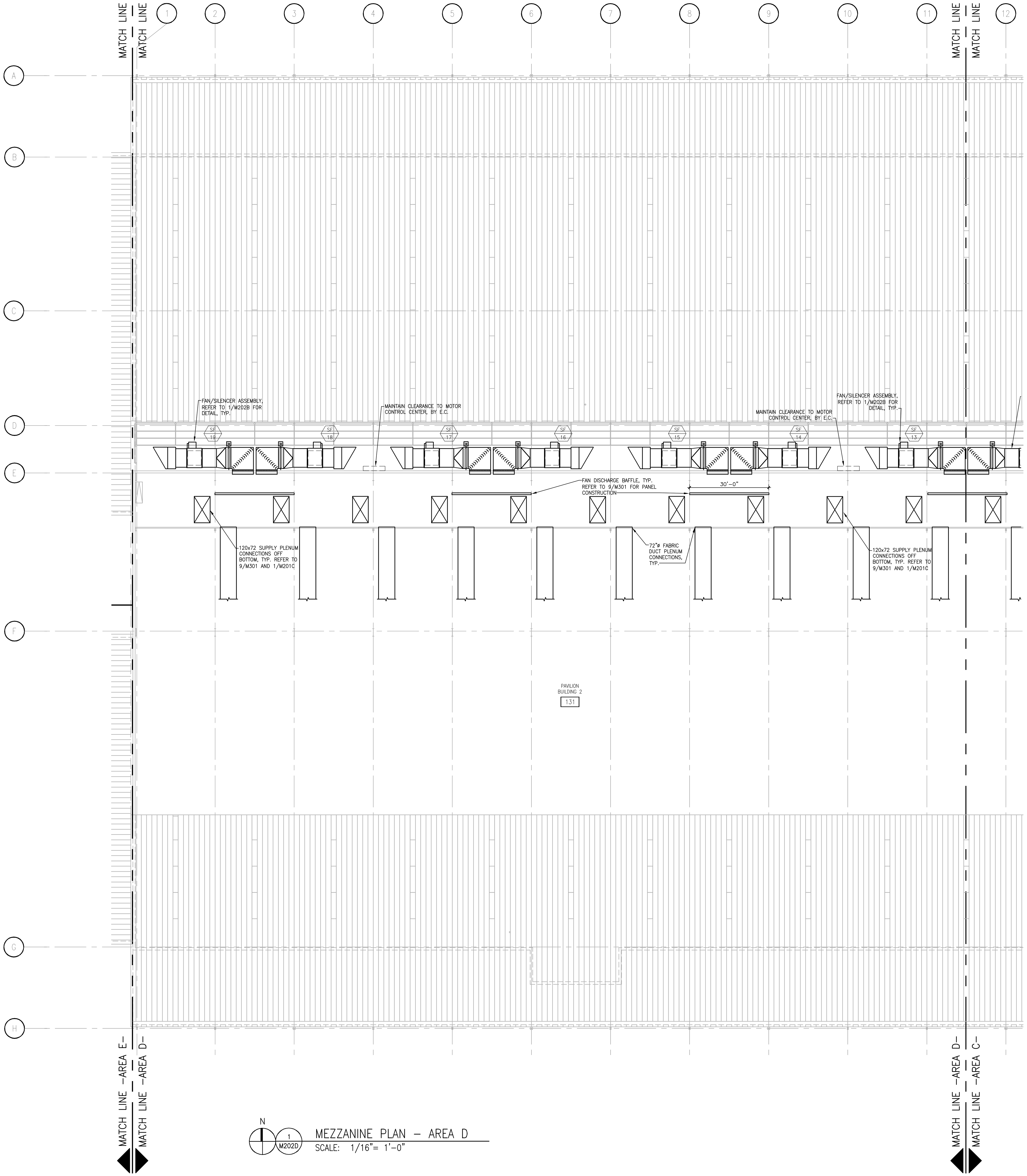
KEY PLAN

SHEET TITLE

FIRST FLOOR HVAC PLAN AREA C - BLD 2

SHEET NO.

M201C



N
1
M202D
MEZZANINE PLAN – AREA D
SCALE: 1/16"= 1'–0"

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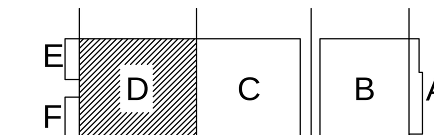
PROJECT TITLE

ALLIANT ENERGY
CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

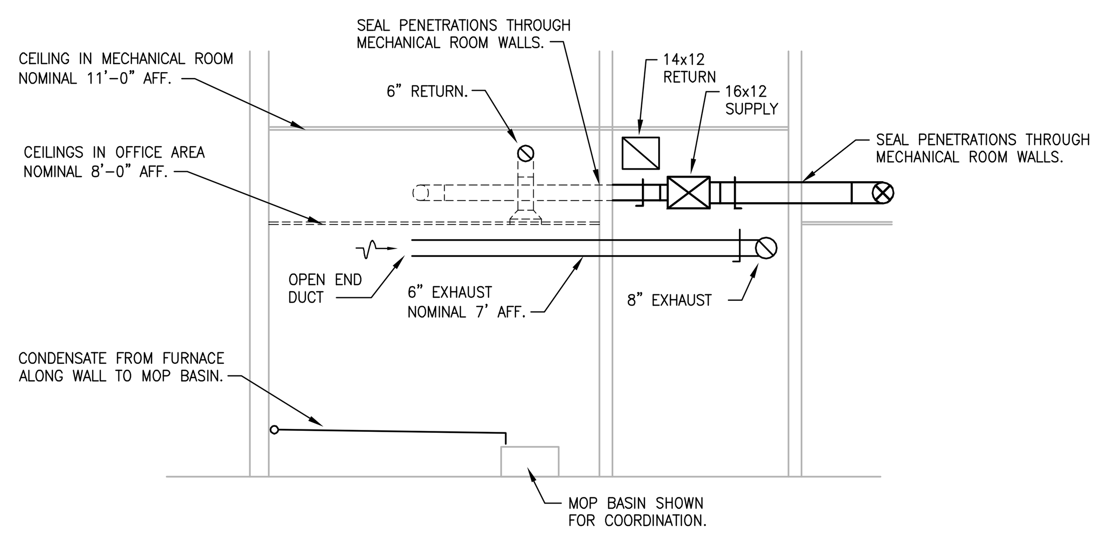


KEY PLAN

SHEET TITLE

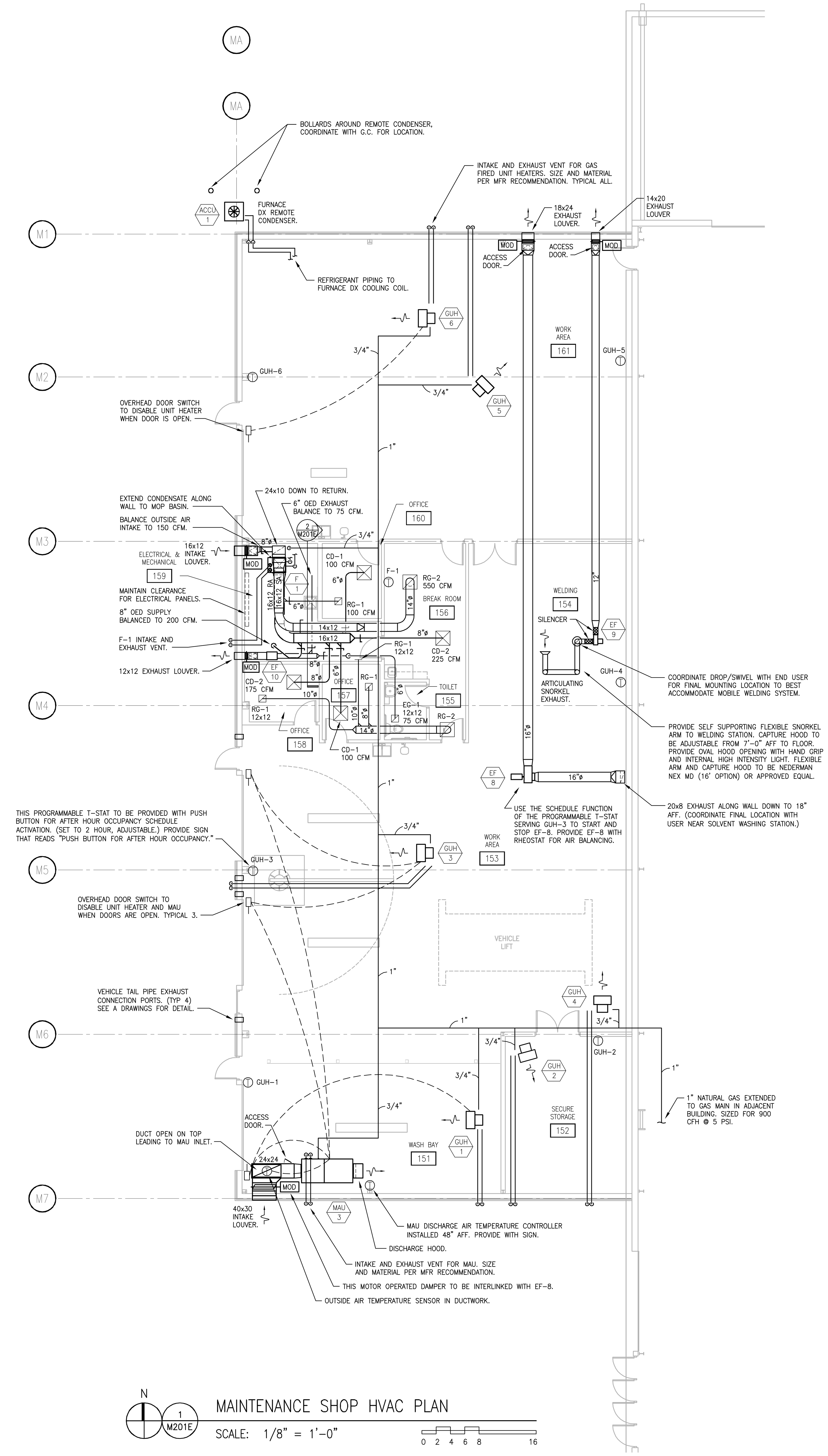
MEZZANINE
HVAC PLAN
AREA D - BLD 2

SHEET NO.
M202D



2 M201E MECHANICAL ROOM SECTION

SCALE: 1/4" = 1'-0"



1 M201E MAINTENANCE SHOP HVAC PLAN

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

0 2 4 6 8 16

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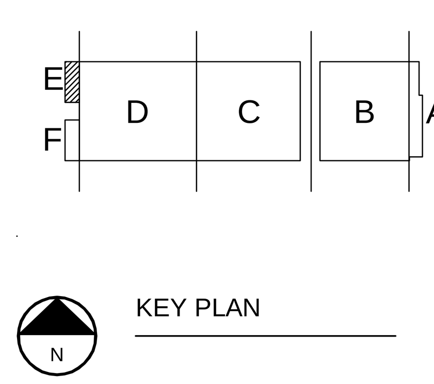
PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



KEY PLAN

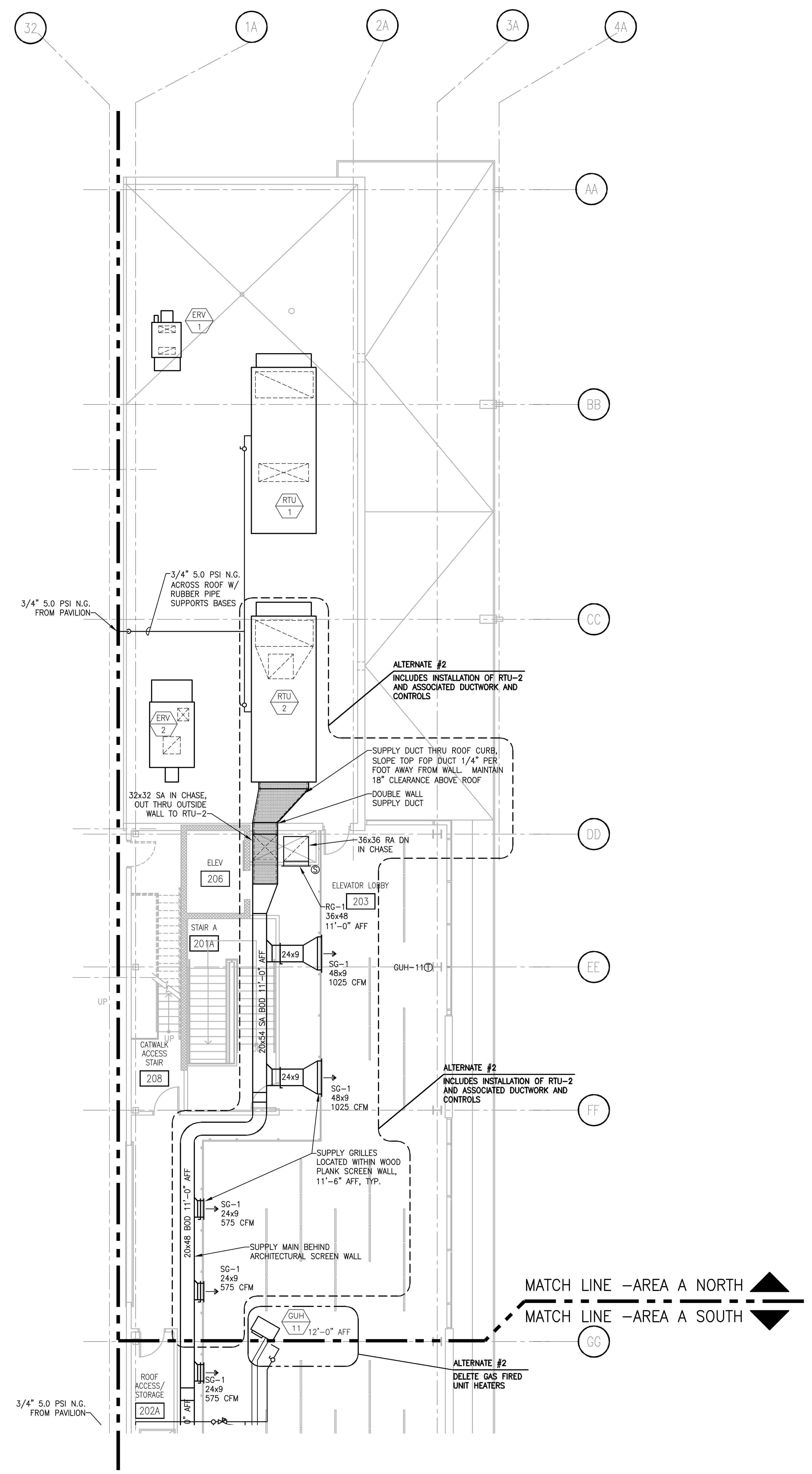
SHEET TITLE

MAINTENANCE SHOP HVAC PLAN

SHEET NO.

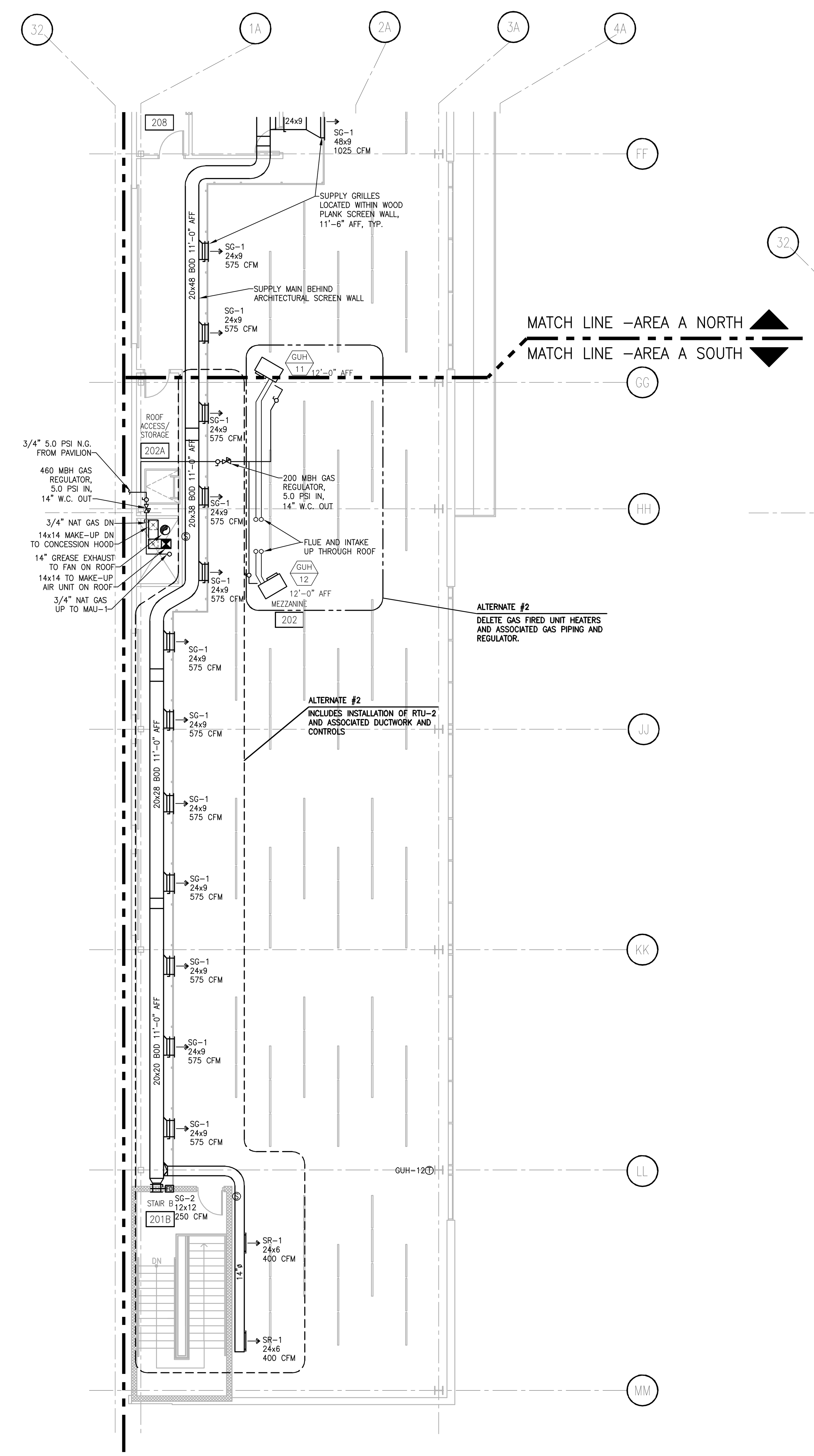
M201E

NATHANIEL ZACH 2009-6-30 2:27 PM K:_2013\2013027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALL\DRAWINGS\2013027_02-M201E.DWG



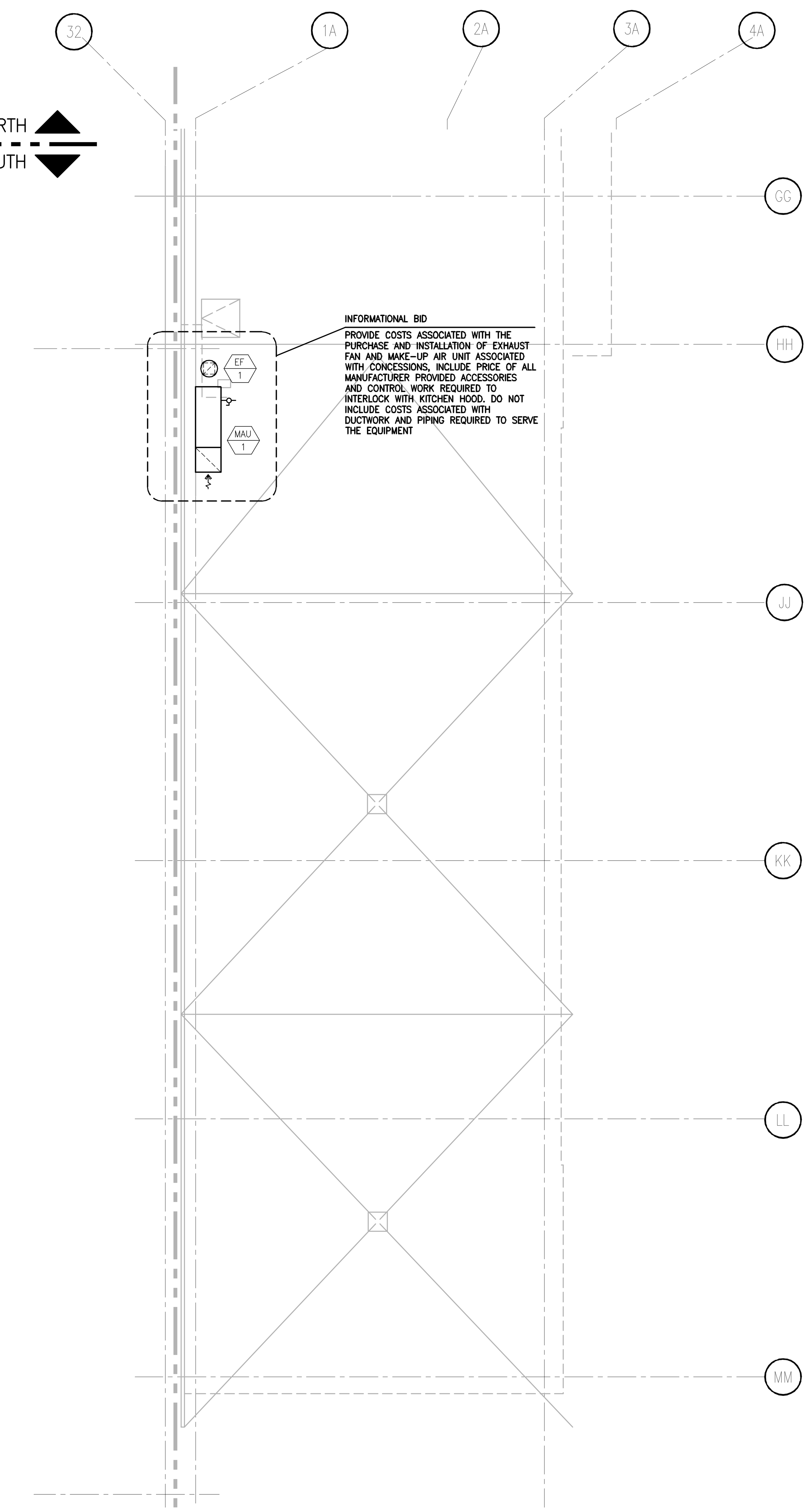
MEZZANINE HVAC FLOOR PLAN – AREA A – NORTH

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"

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

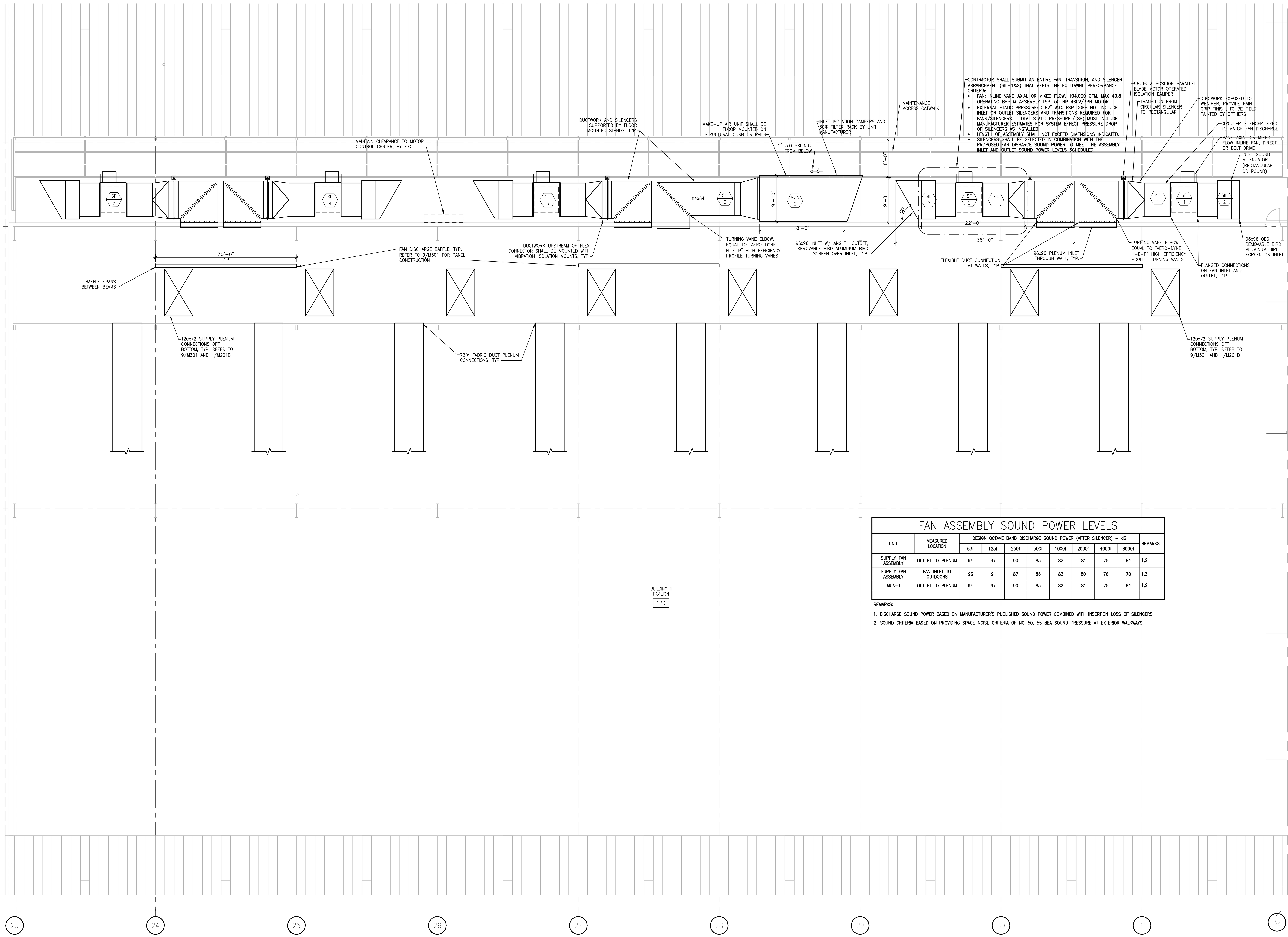
KEY PLAN

SHEET TITLE

MEZZANINE HVAC PLAN AREA A - BLD 1

SHEET NO.

M202A



FAN ASSEMBLY SOUND POWER LEVELS

UNIT	MEASURED LOCATION	DESIGN OCTAVE BAND DISCHARGE SOUND POWER (AFTER SILENCER) – dB								REMARKS
		63f	125f	250f	500f	1000f	2000f	4000f	8000f	
SUPPLY FAN ASSEMBLY	OUTLET TO PLENUM	94	97	90	85	82	81	75	64	1,2
SUPPLY FAN ASSEMBLY	FAN INLET TO OUTDOORS	96	91	87	86	83	80	76	70	1,2
MUA-1	OUTLET TO PLENUM	94	97	90	85	82	81	75	64	1,2

REMARKS:

1. DISCHARGE SOUND POWER BASED ON MANUFACTURER'S PUBLISHED SOUND POWER COMBINED WITH INSERTION LOSS OF SILENCERS
2. SOUND CRITERIA BASED ON PROVIDING SPACE NOISE CRITERIA OF NC-50, 55 dBA SOUND PRESSURE AT EXTERIOR WALKWAYS.

N
1
M202B
MEZZANINE PLAN – AREA B
SCALE: 1/8" = 1'-0"

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

E F D C B A

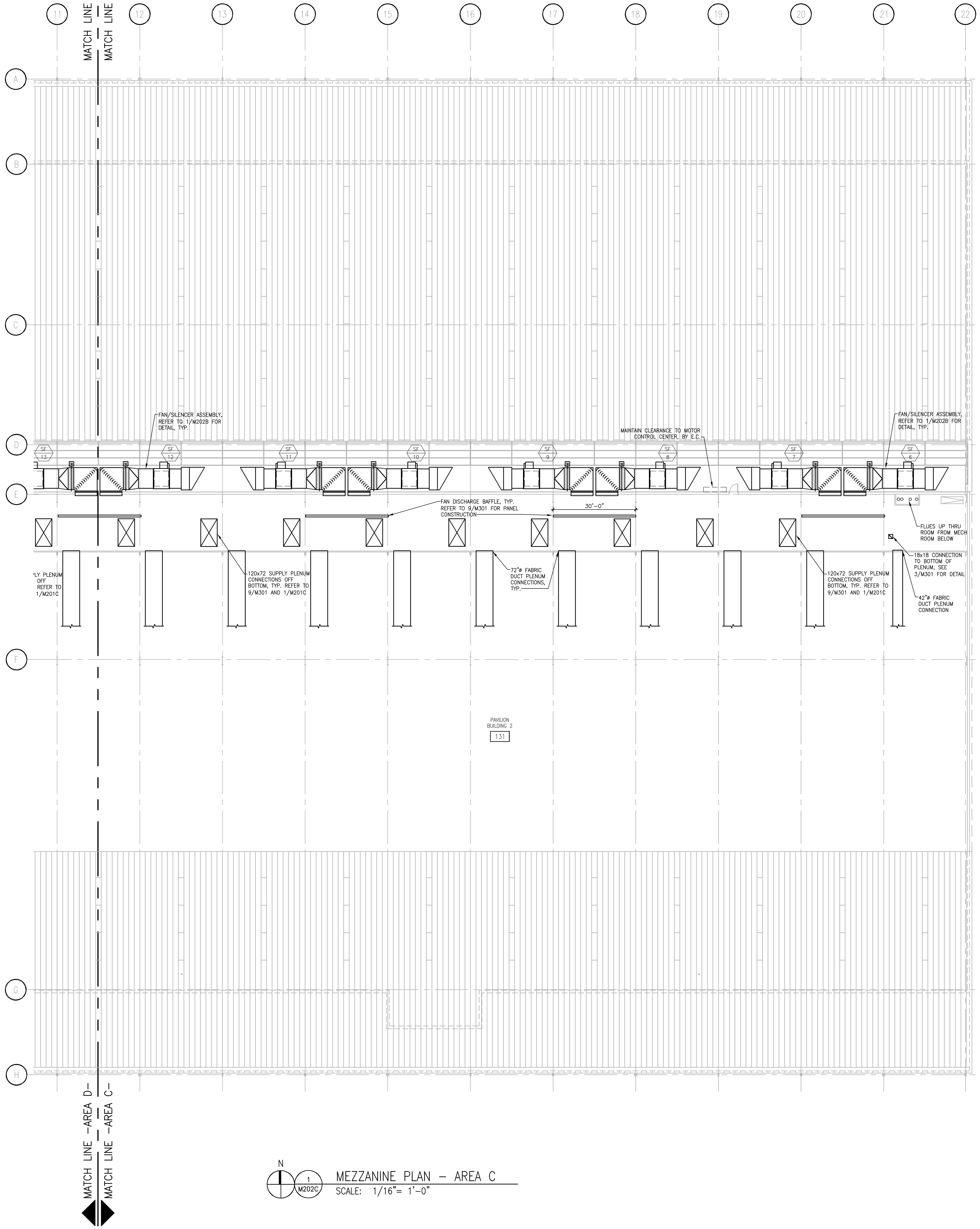
KEY PLAN

SHEET TITLE

MEZZANINE
HVAC PLAN
AREA B - BLD 1

SHEET NO.

M202B



1 M202C MEZZANINE PLAN – AREA C
SCALE: 1/16"= 1'–0"

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PROJECT TITLE

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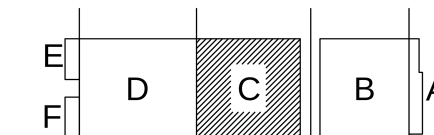
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



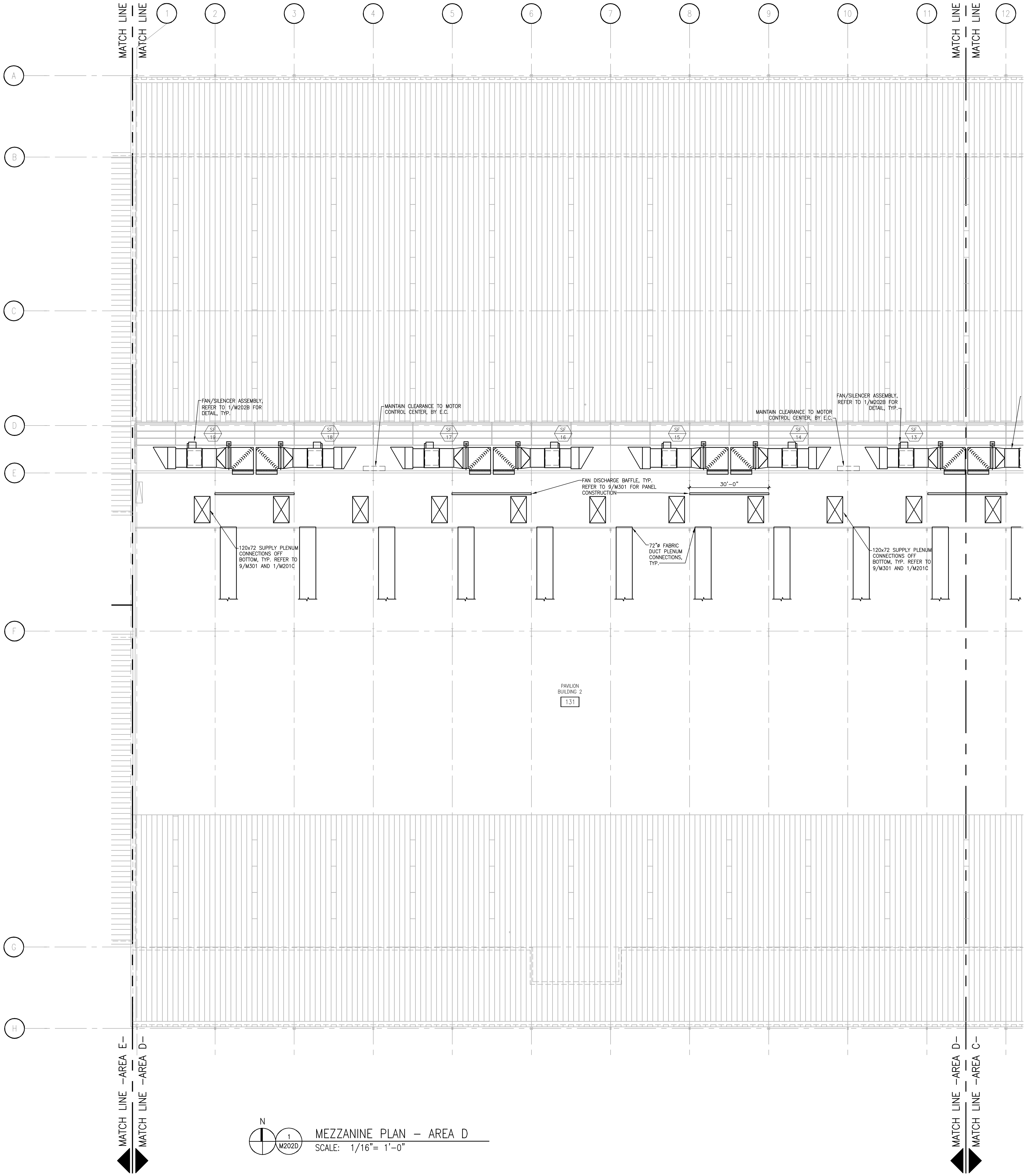
KEY PLAN

SHEET TITLE

MEZZANINE HVAC PLAN AREA C - BLD 2

SHEET NO.

M202C



1 M202D MEZZANINE PLAN – AREA D
SCALE: 1/16"= 1'-0"

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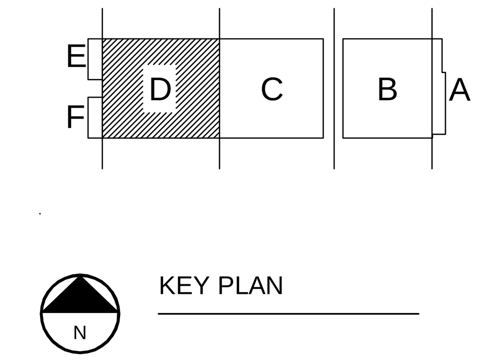


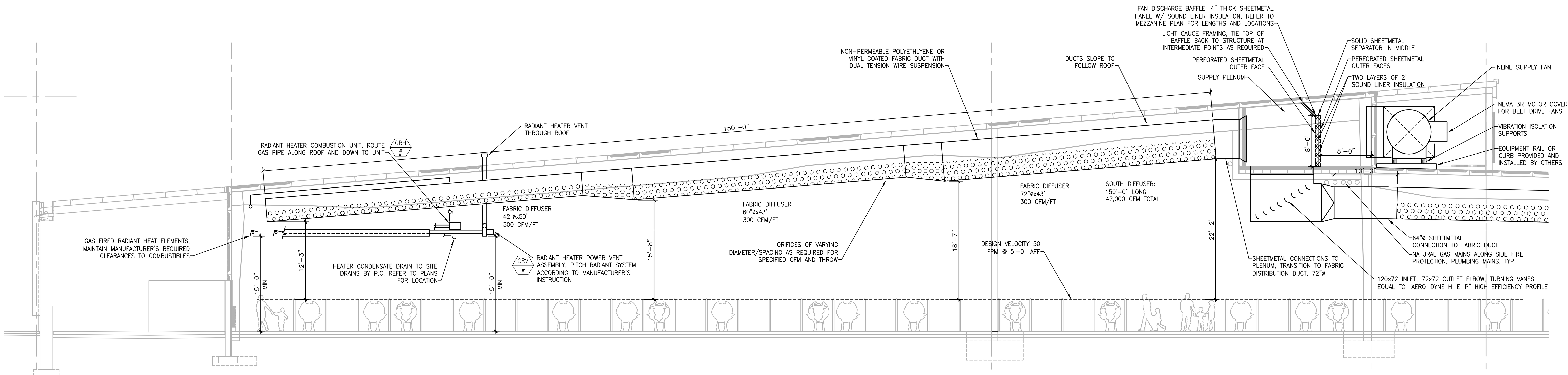
KEY PLAN

SHEET TITLE

MEZZANINE HVAC PLAN AREA D - BLD 2

SHEET NO.

M202D



9 M301 TYPICAL PAVILION MECHANICAL SECTION – SOUTH

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

GENERAL NOTES

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

PLAN NOTES

1. **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

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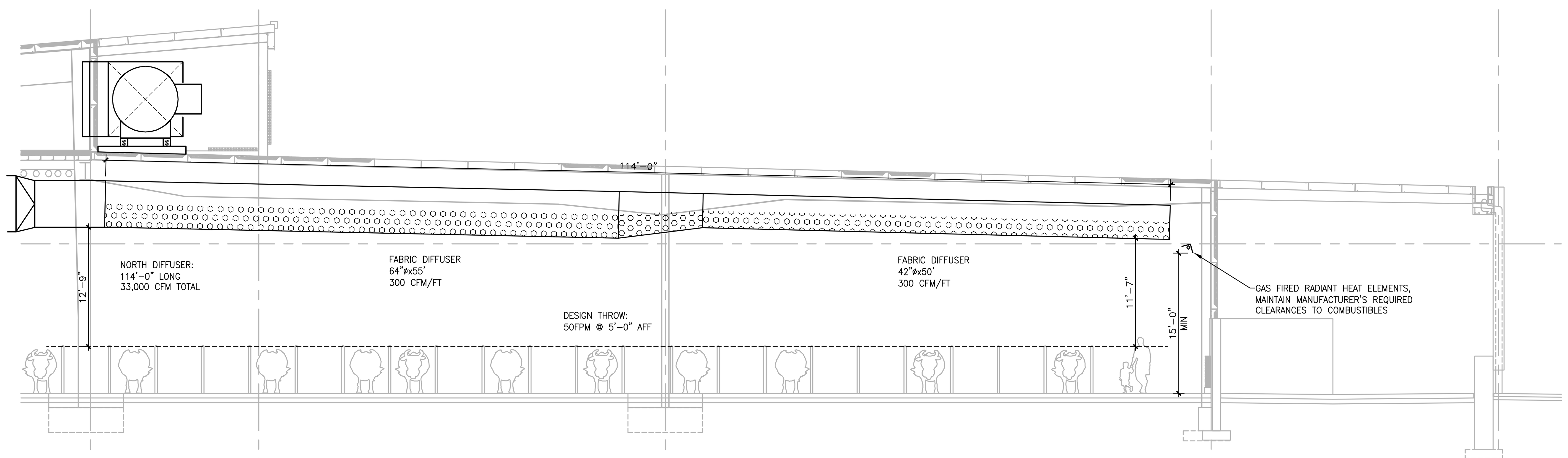
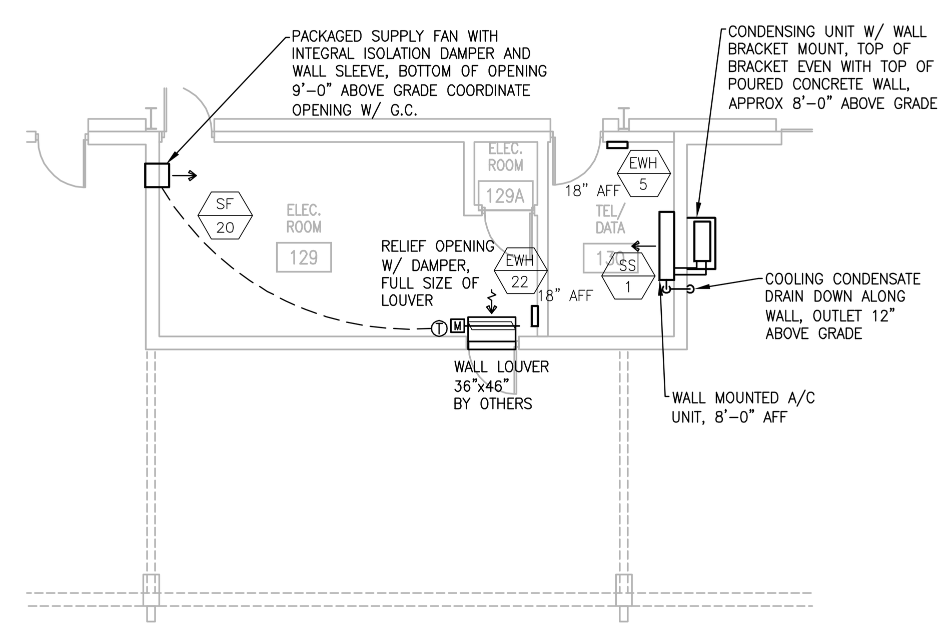


8 M301 TYPICAL PAVILION MECHANICAL SECTION – NORTH

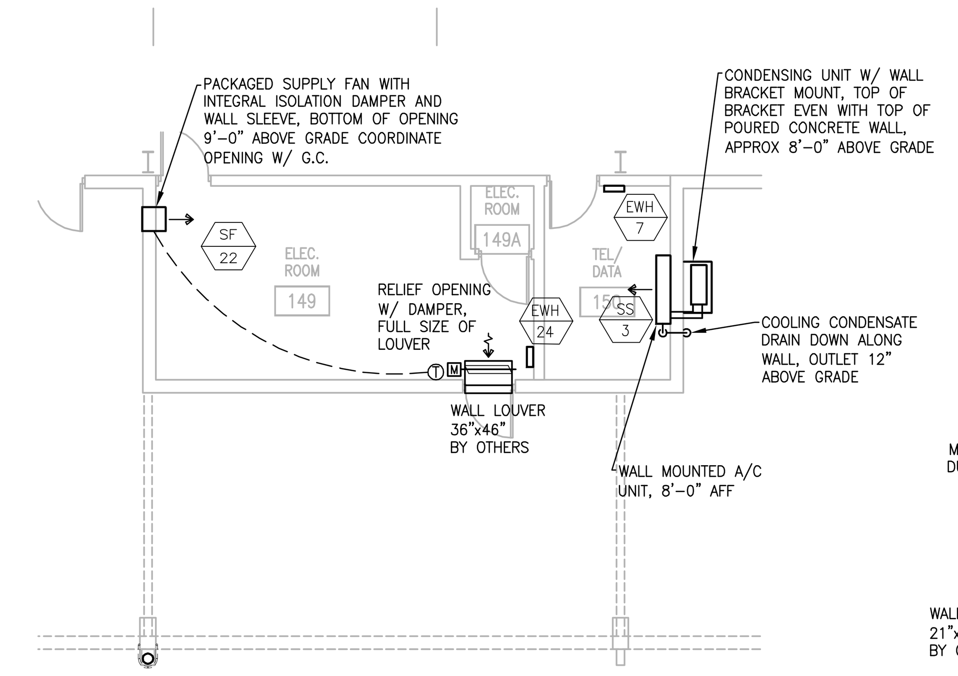
SCALE: 1/8" = 1'-0"



AREA B

2 M301 ELECTRICAL AND DATA ROOM EXPANDED HVAC PLAN

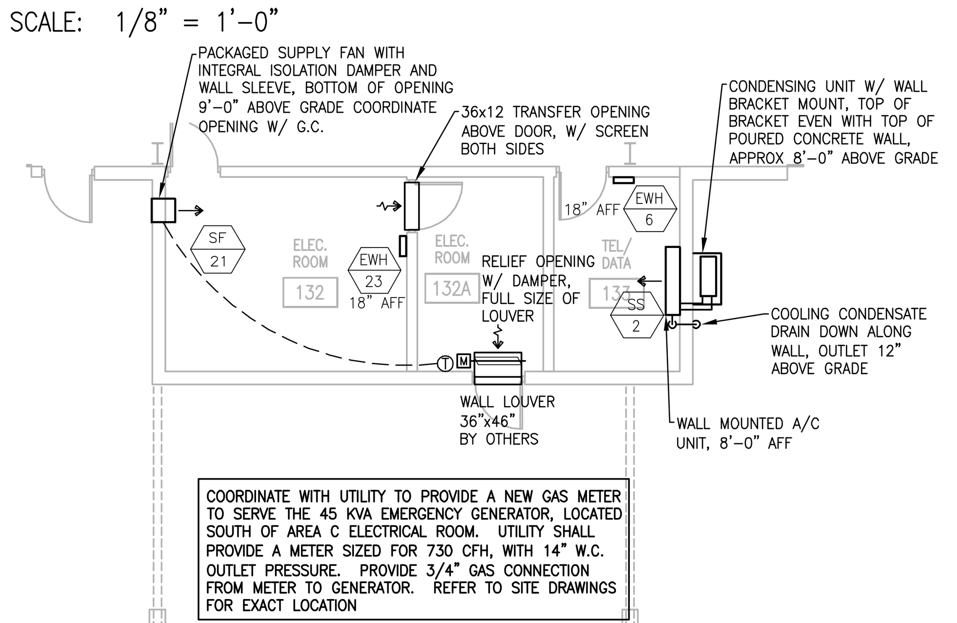
SCALE: 1/8" = 1'-0"



AREA D

7 M301 ELECTRICAL AND DATA ROOM EXPANDED HVAC PLAN

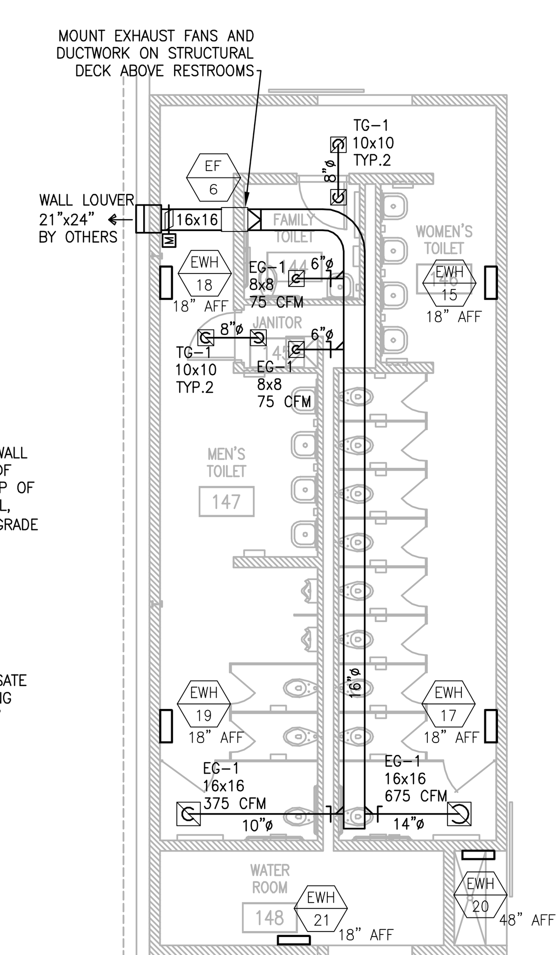
SCALE: 1/8" = 1'-0"



AREA C

6 M301 ELECTRICAL AND DATA ROOM EXPANDED HVAC PLAN

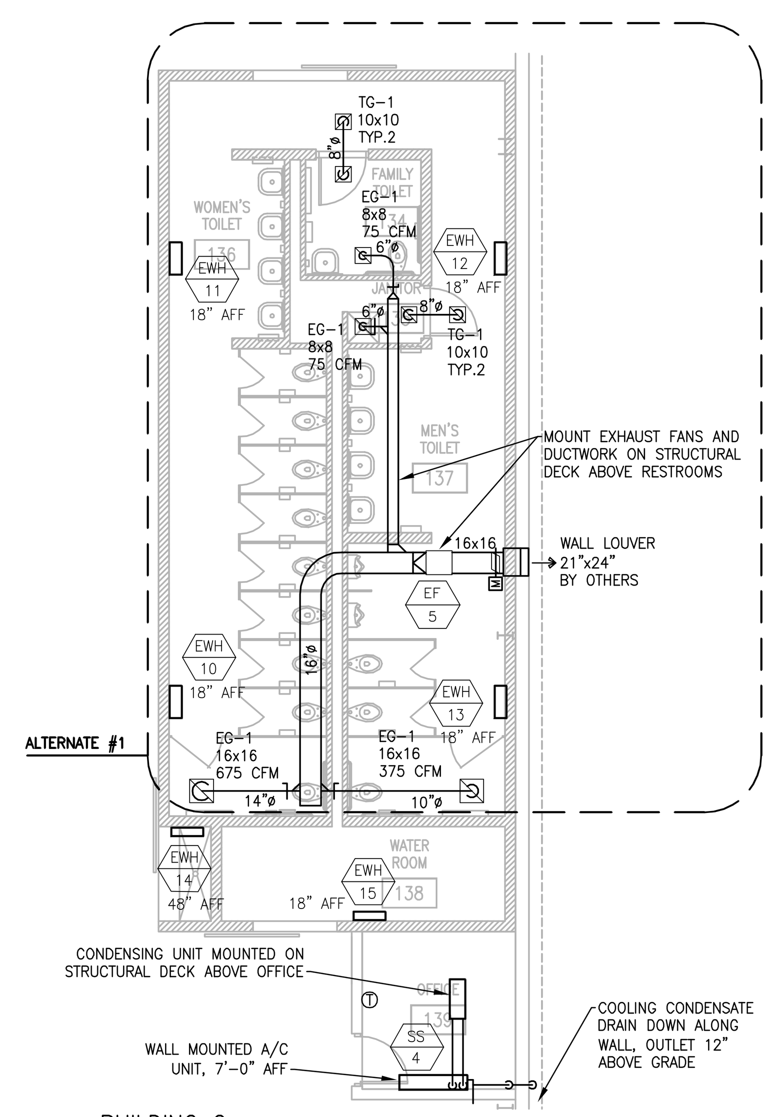
SCALE: 1/8" = 1'-0"



BUILDING 2

5 M301 WEST RESTROOM EXPANDED HVAC PLAN

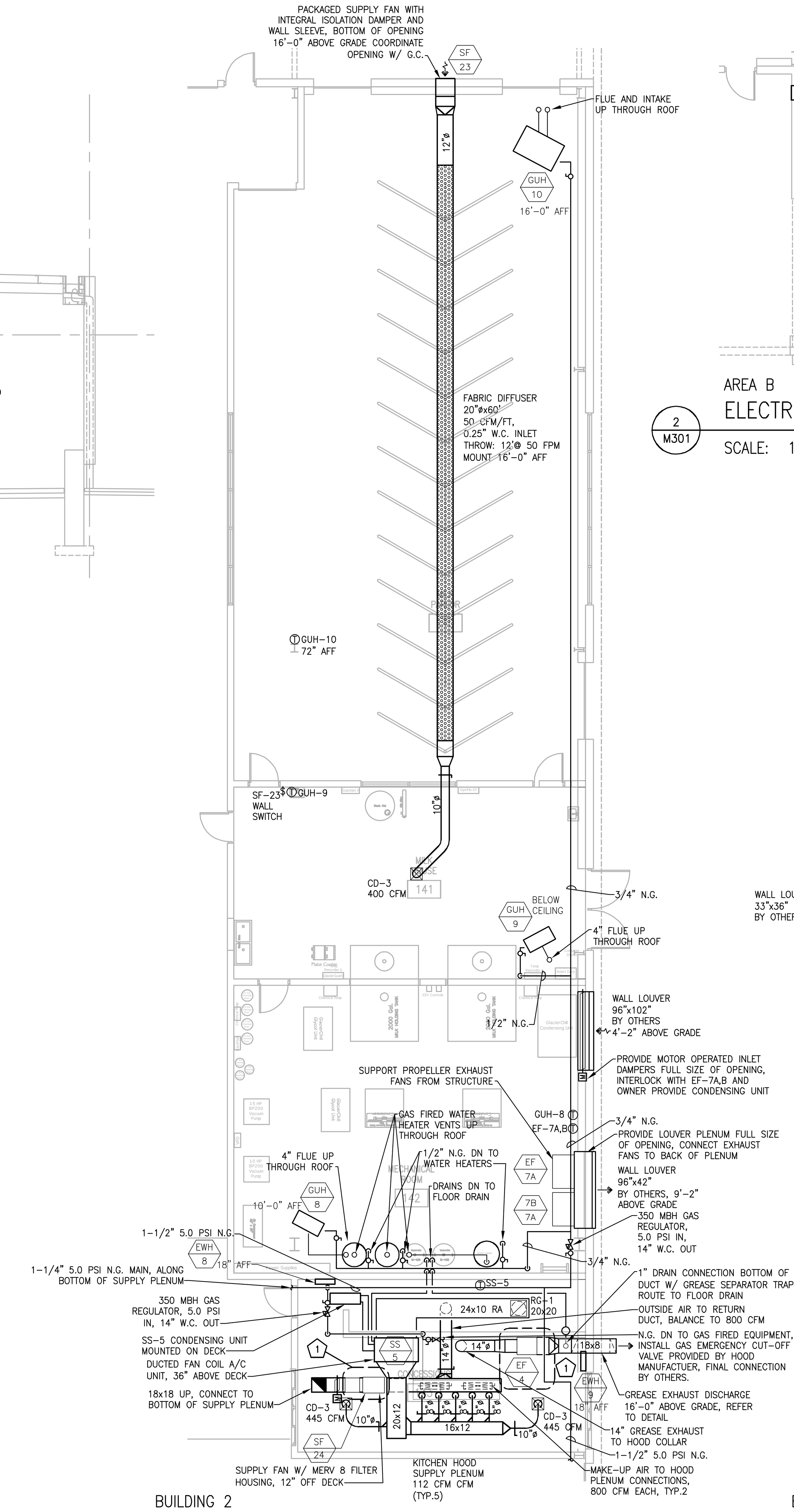
SCALE: 1/8" = 1'-0"



BUILDING 2

4 M301 WEST RESTROOM EXPANDED HVAC PLAN

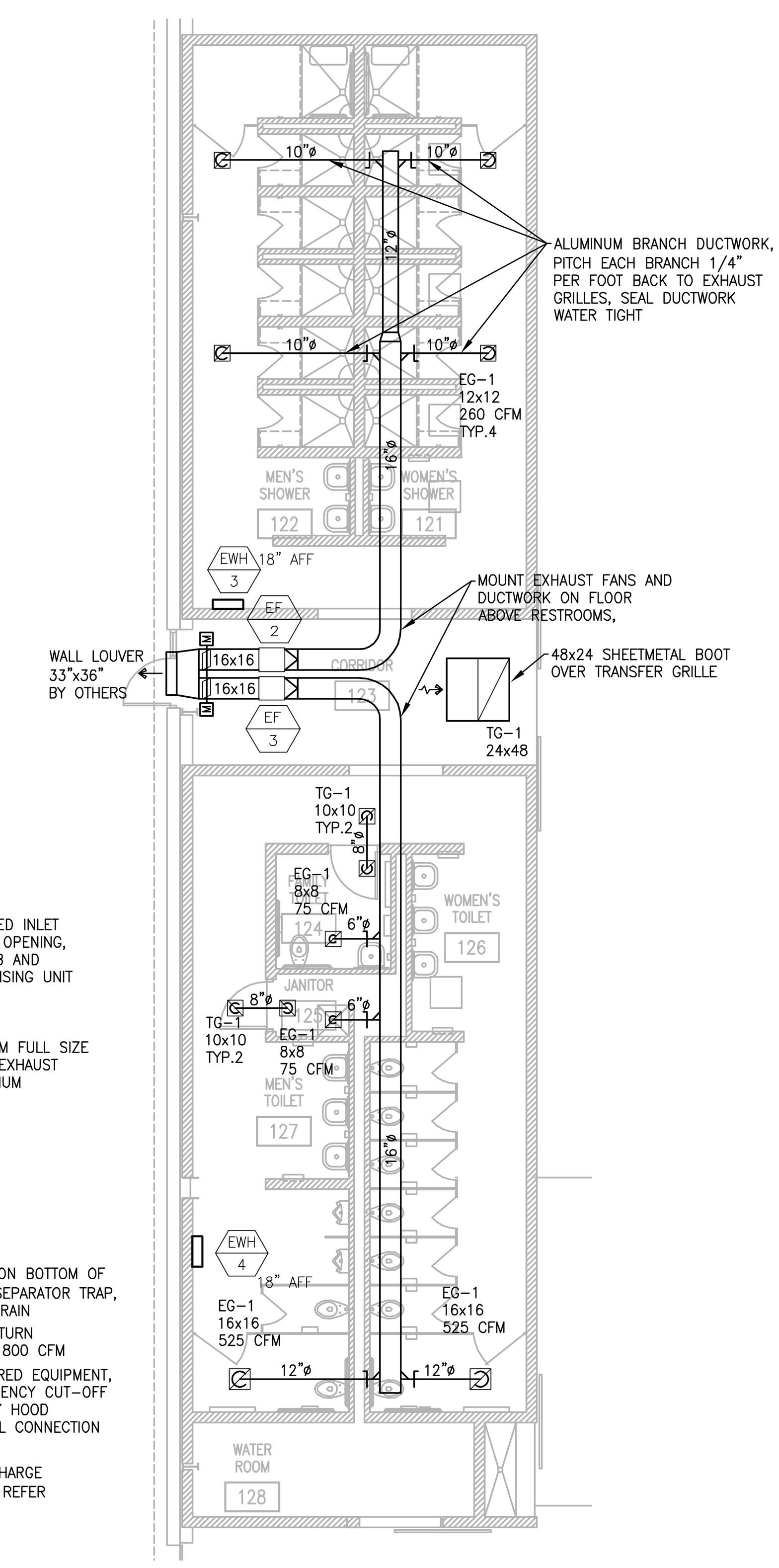
SCALE: 1/8" = 1'-0"



BUILDING 2

3 M301 CONCESSION AND MILK PARLOR EXPANDED HVAC PLAN

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



BUILDING 1

1 M301 RESTROOM AND SHOWER EXPANDED HVAC PLAN

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

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

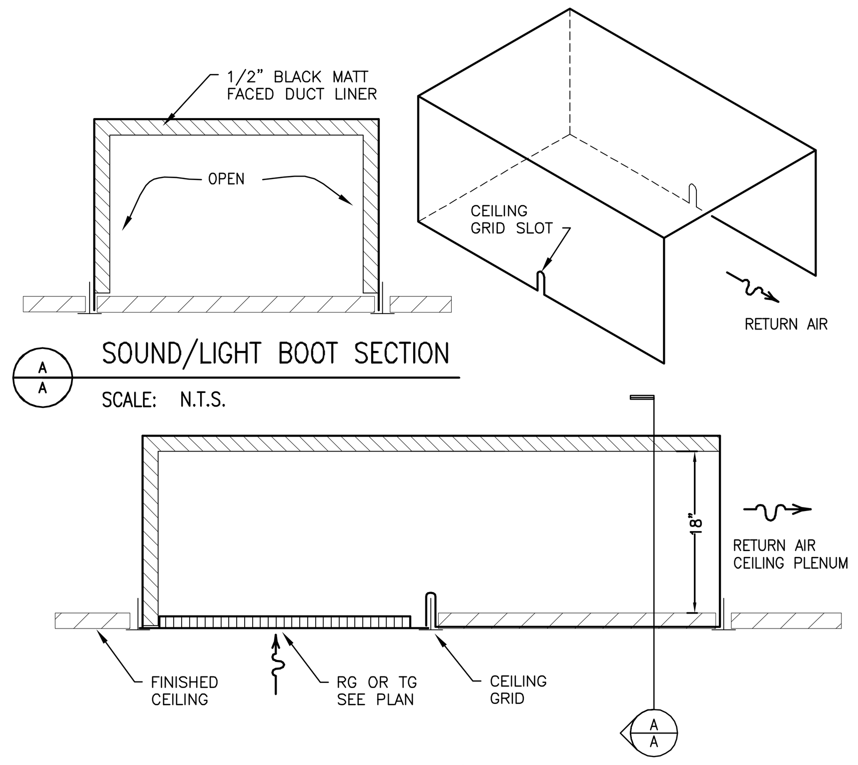
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

MECHANICAL SECTIONS AND EXPANDED PLANS

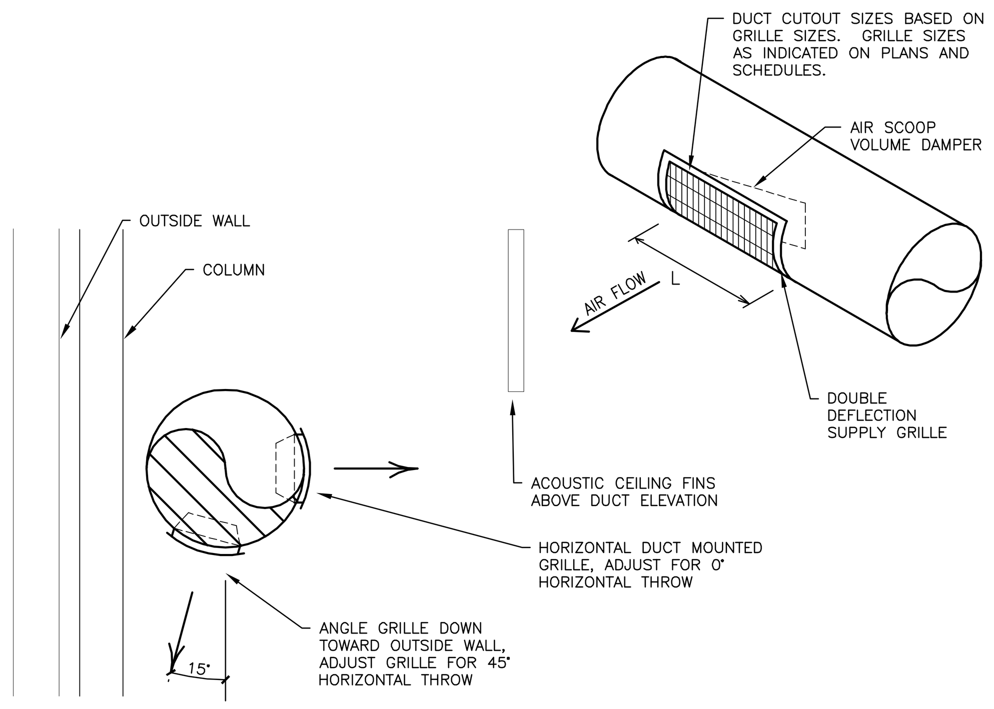
SHEET NO.

M301



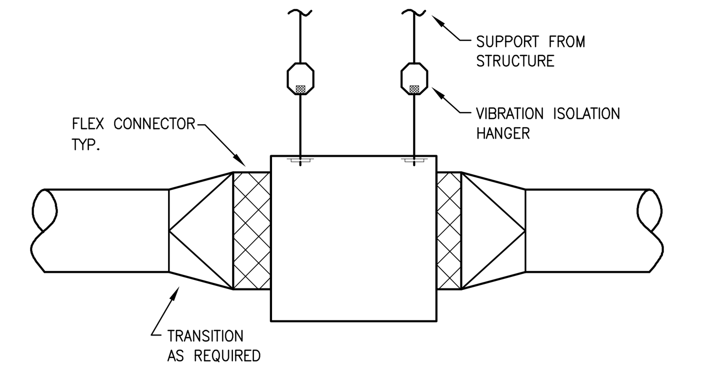
18 M401 RA PLENUM SOUND/LIGHT BOOT DETAIL

SCALE: N.T.S.



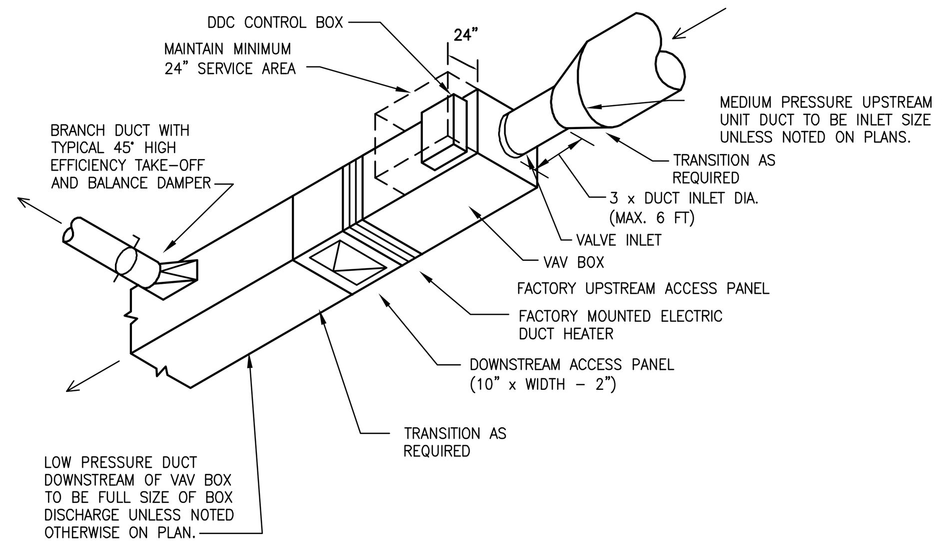
13 M401 ROUND DUCT SUPPLY GRILLE DETAIL

SCALE: N.T.S.



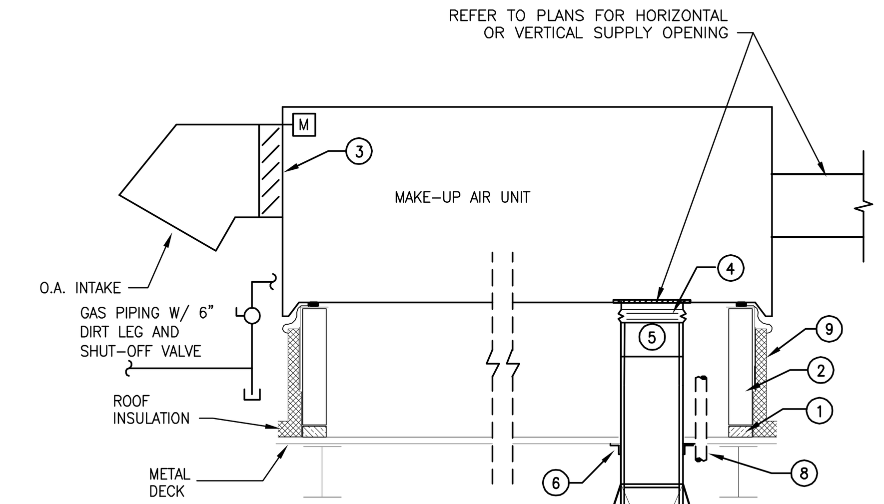
9 M401 INLINE FAN DETAIL

SCALE: N.T.S.



4 M401 VAV W/ REHEAT INSTALLATION DETAIL

SCALE: N.T.S.

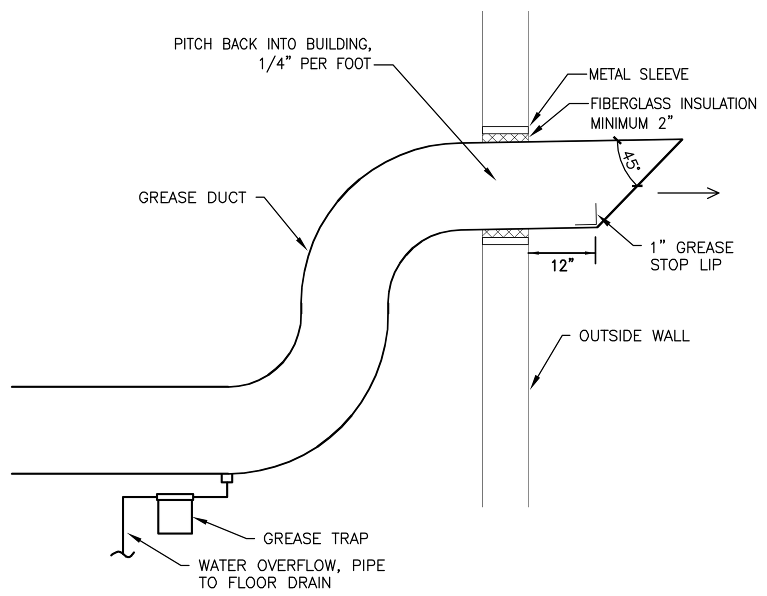


INSTALLATION NOTES:

1. FIELD RIP PRESSURE TREATED WOOD TO INSURE CURB IS INSTALLED LEVEL.
2. EQUIPMENT CURB, PROVIDED BY EQUIPMENT MANUFACTURER, INSTALLED BY G.C.
3. INLET ISOLATION DAMPER BY MAU MANUFACTURER
4. FLEXIBLE DUCT CONNECTOR.
5. TRANSITION AS REQUIRED FOR CONNECTION TO ROOF TOP UNIT OPENINGS.
6. DUCT SUPPORT ANGLE. TYPICAL ALL SIDES.
8. COORDINATE PIPE/CONDUIT SLEEVE LOCATIONS.
9. ROOF CURB FLASHING BY G.C.

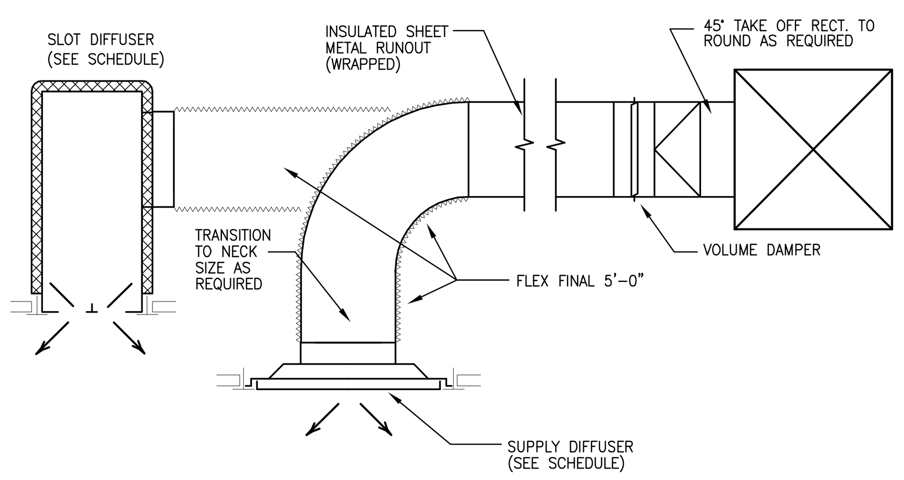
1 M401 ROOF TOP MAU INSTALLATION DETAIL

SCALE: N.T.S.



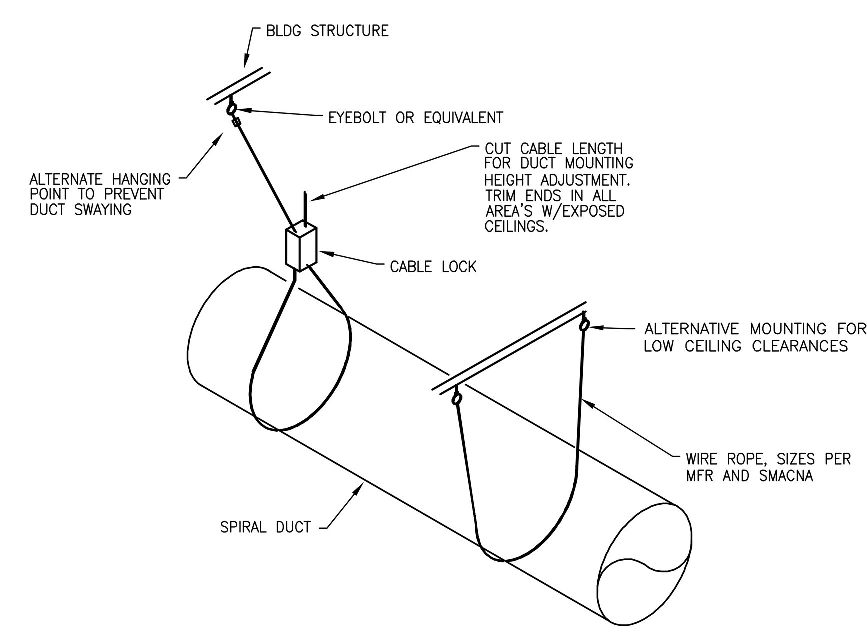
19 M201 KITCHEN EXHAUST WALL OUTLET DETAIL

SCALE: N.T.S.



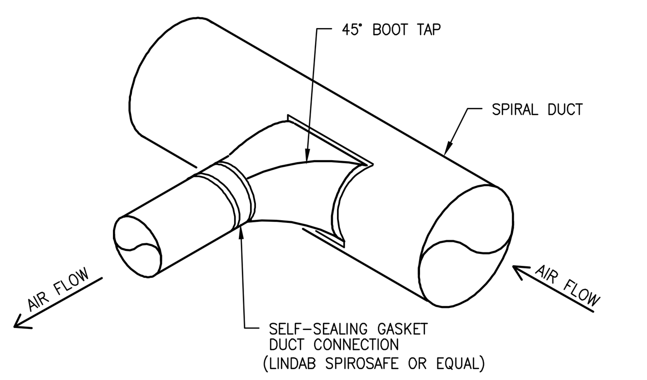
14 M401 CEILING DIFFUSER DETAIL

SCALE: N.T.S.



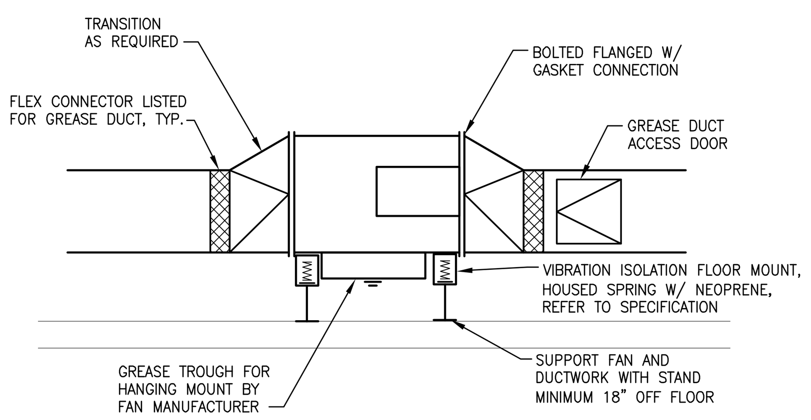
10 M401 SPIRAL DUCT SUSPENSION DETAIL

SCALE: N.T.S.



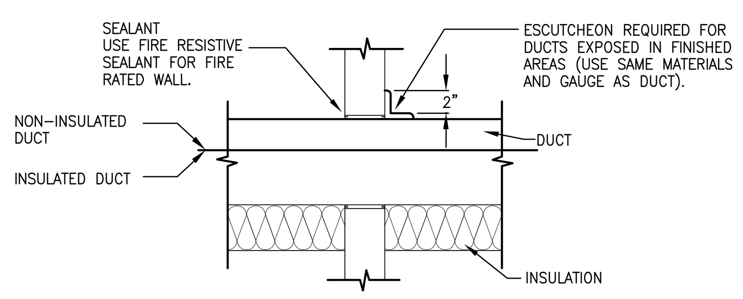
5 M401 SPIRAL DUCT TEE TAP DETAIL

SCALE: N.T.S.



20 M201 INLINE GREASE FAN DETAIL

SCALE: N.T.S.



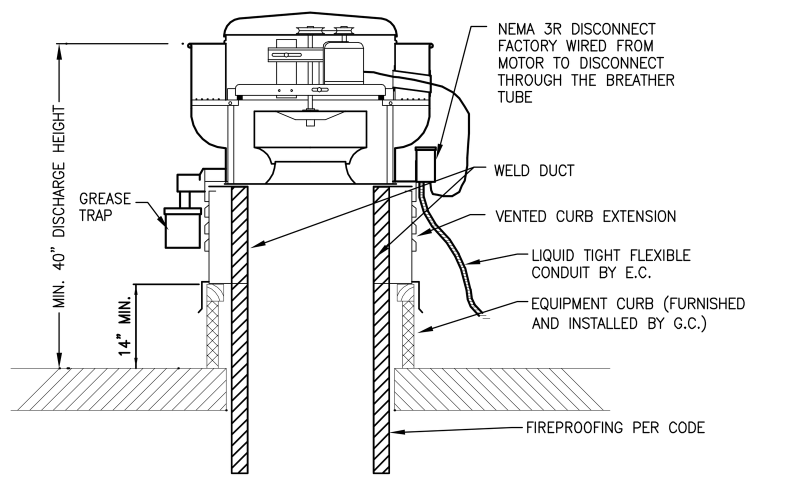
15 M401 DUCT PENETRATION THRU INTERIOR WALL

SCALE: N.T.S.

DESCRIPTION	DOUBLE LINE	SINGLE LINE
BRANCH TAKE-OFF SUPPLY, RETURN OR EXHAUST	45°, W, 1/4W, 6" MIN.	
TEE		
ELBOW	W, R/W = 1.5	
TRANSITION FITTING	CONVERGING FLOW 30° MAX. DIVERGING FLOW 20° MAX.	

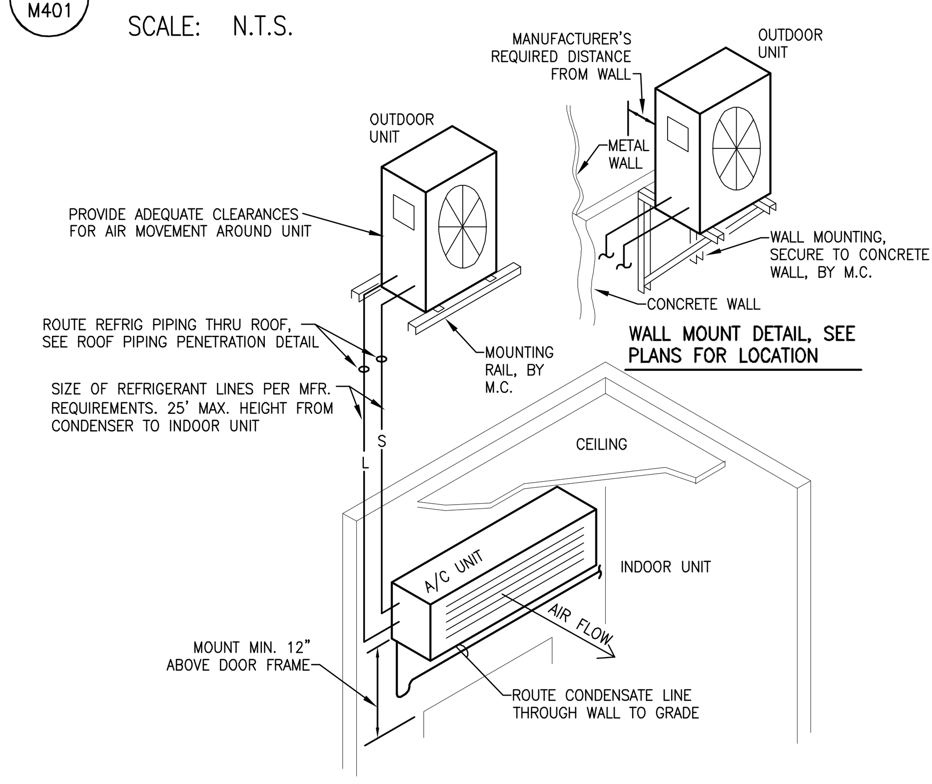
6 M401 DUCT FITTINGS

SCALE: N.T.S.



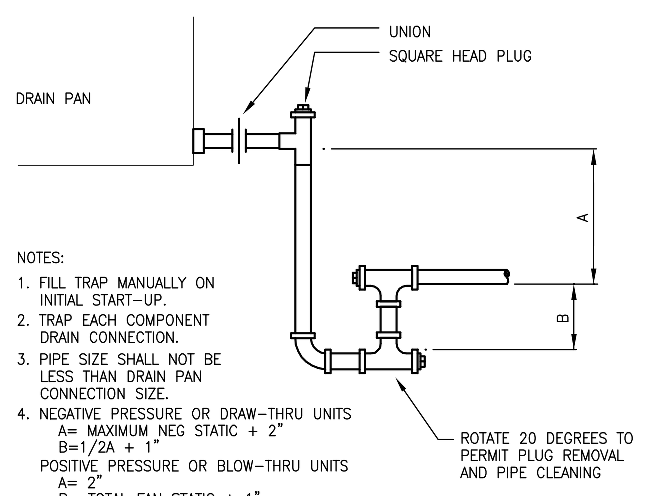
2 M401 KITCHEN EXHAUST DETAIL

SCALE: N.T.S.



11 M401 DATA CLOSET SPLIT SYSTEM AC UNIT DETAIL

SCALE: N.T.S.

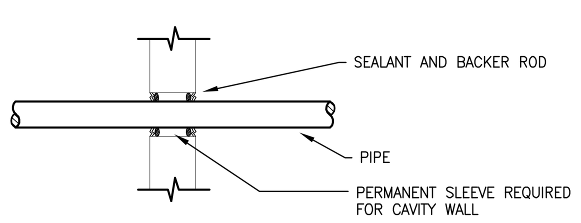


NOTES:

1. FILL TRAP MANUALLY ON INITIAL START-UP.
2. TRAP EACH COMPONENT DRAIN CONNECTION.
3. PIPE SIZE SHALL NOT BE LESS THAN DRAIN PAN CONNECTION SIZE.
4. NEGATIVE PRESSURE OR DRAW-THRU UNITS
   A= MAXIMUM NEG STATIC + 2"
   B=1/2A + 1"
   POSITIVE PRESSURE OR BLOW-THRU UNITS
   A= 2"
   B= TOTAL FAN STATIC + 1"

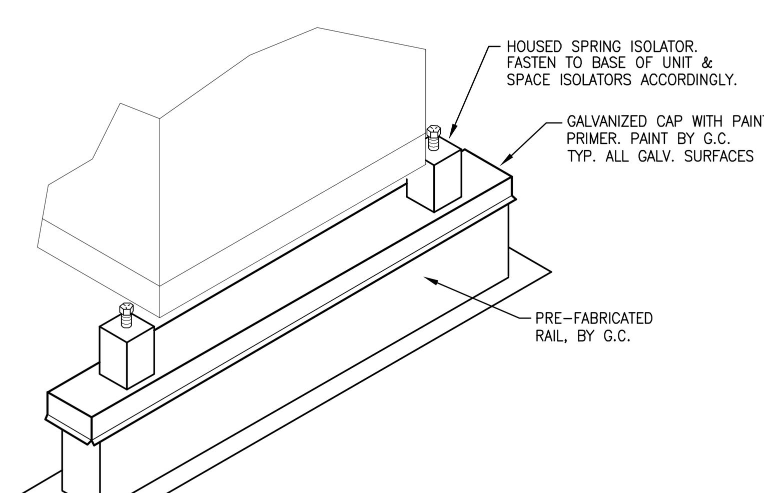
21 M401 AIR HANDLING UNIT CONDENSATE DRAIN TRAP PIPING

SCALE: N.T.S.



16 M401 PIPE THROUGH NON-RATED INTERIOR WALL

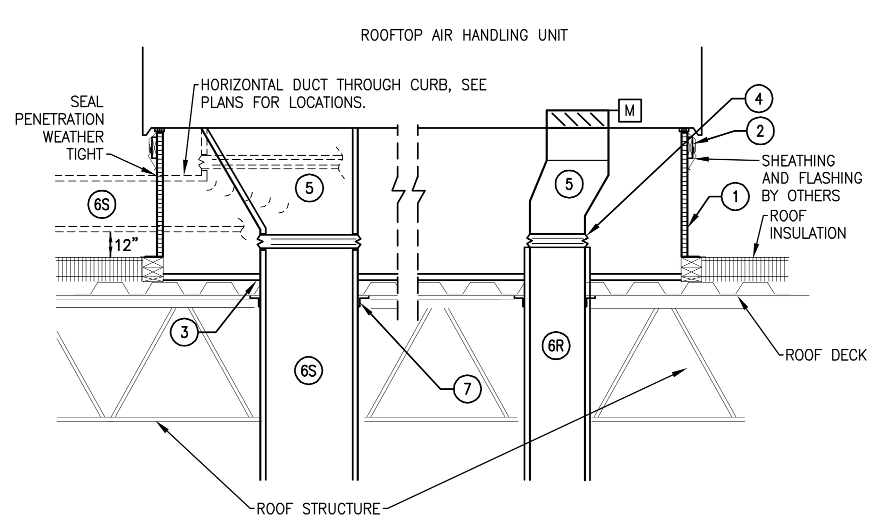
SCALE: N.T.S.



NOTE: PROVIDE LENGTH OF SUPPORTS AS REQUIRED AND SPACED ACCORDINGLY PER MANUFACTURERS OF EQUIPMENT. PITCH AS REQUIRED TO MAINTAIN TOP OF RAIL LEVELS, COORDINATE W/ARCH. PLANS.

7 M401 ROOF EQUIPMENT RAIL SUPPORT

SCALE: N.T.S.

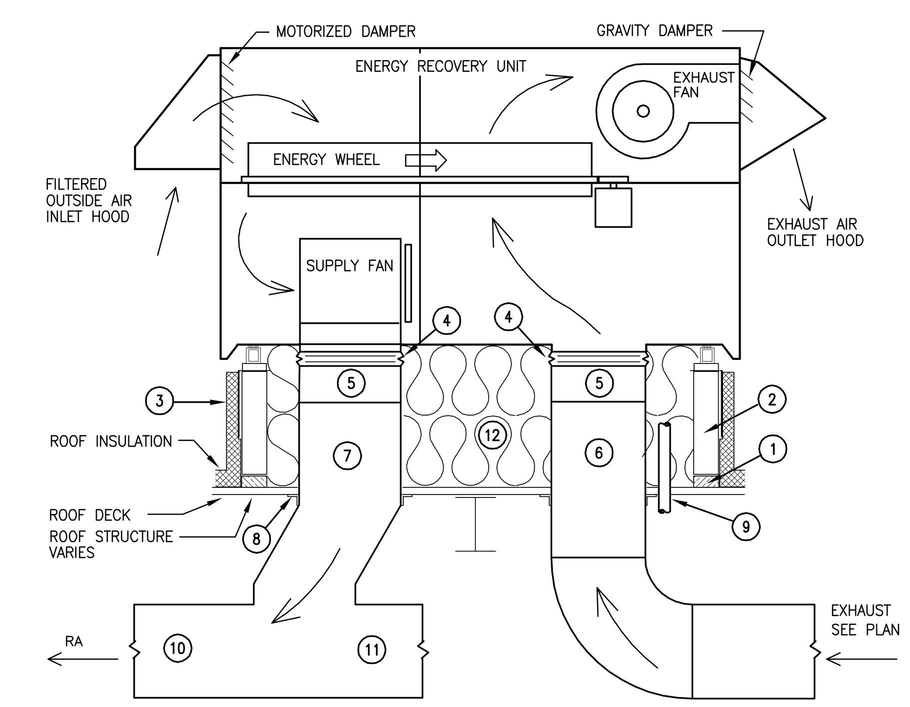


INSTALLATION NOTES:

1. MANUFACTURER PROVIDED INSULATED CURB. FIELD RIP PRESSURE TREATED WOOD TO ENSURE CURB IS INSTALLED LEVEL.
2. WOOD NAILER STRIP BY CURB MANUFACTURER. ROOF FLASHING BY OTHERS.
3. CUTTING AND REINFORCEMENT OF ROOF OPENINGS BY OTHERS.
4. FLEXIBLE DUCT CONNECTOR, TYP.
5. TRANSITION FROM UNIT CONNECTION AS REQUIRED FOR PLAN DUCT SIZE AND TO COORDINATE WITH OPENINGS BETWEEN ROOF STRUCTURE.
6S. LINED DISCHARGE SUPPLY DUCT AS SPECIFIED IN SECTION 23 31 13 AND INSULATED PER SECTION 23 07 00. REFER TO FLOOR PLANS FOR EXTENT OF LINED DUCT.
6R. ACOUSTIC LINED RETURN DUCT TO UNIT CONSTRUCTED AS SPECIFIED IN SECTION 23 31 13 AND INSULATED PER SECTION 23 07 00. REFER TO FLOOR PLANS FOR EXTENT OF ACOUSTIC LINED DUCT.
7. DUCT SUPPORT ANGLE, TYPICAL ALL SIDES

12 M401 ROOFTOP AHU INSTALLATION DETAIL

SCALE: N.T.S.

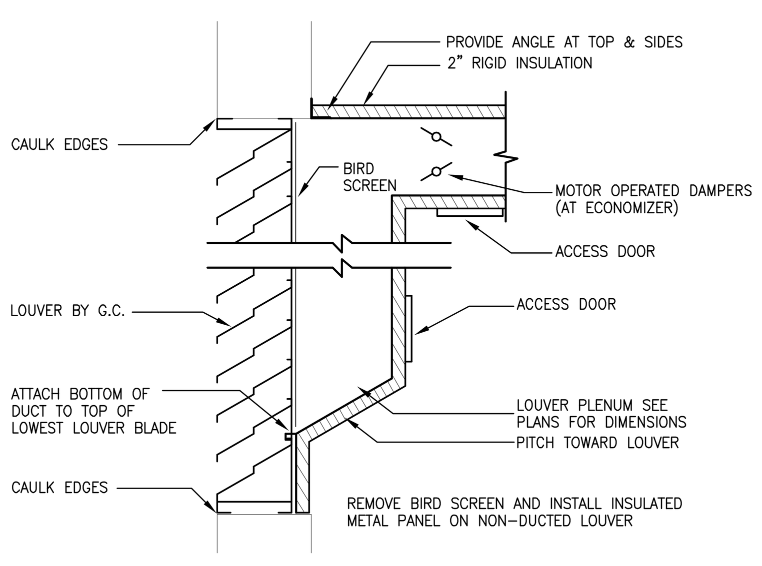


INSTALLATION NOTES:

1. FIELD RIP PRESSURE TREATED WOOD TO INSURE CURB IS INSTALLED LEVEL
2. 18" CURB BY MFR. INSTALL LEVEL
3. REFER TO ARCHITECTURAL DETAILS FOR FLASHING
4. FLEXIBLE DUCT CONNECTOR
5. TRANSITION AS REQUIRED FOR CONNECTION TO ROOF TOP UNIT OPENINGS
6. EXHAUST DUCT UP TO ROOF ENERGY RECOVERY UNIT (ERV)
7. SUPPLY DUCT FROM ERU SHALL BE WRAPPED WITH INSULATION.
8. DUCT SUPPORT ANGLE, TYPICAL ALL SIDES
9. COORDINATE PIPE/CONDUIT SLEEVE LOCATIONS
10. WRAP INSULATE RETURN DUCT BACK TO RTU.
11. MAIN RETURN AIR DUCT FROM SPACE TO ROOFTOP AIR HANDLING UNIT
12. FILL ENTIRE CURB WITH GLASS FIBER INSULATION

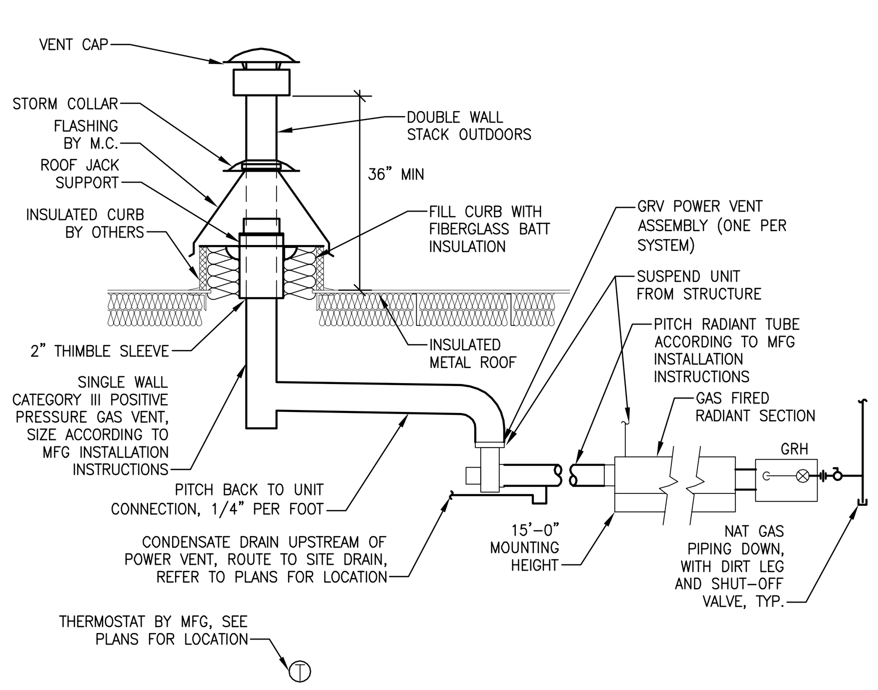
3 M401 ROOF TOP ENERGY RECOVERY UNIT DETAIL

SCALE: N.T.S.



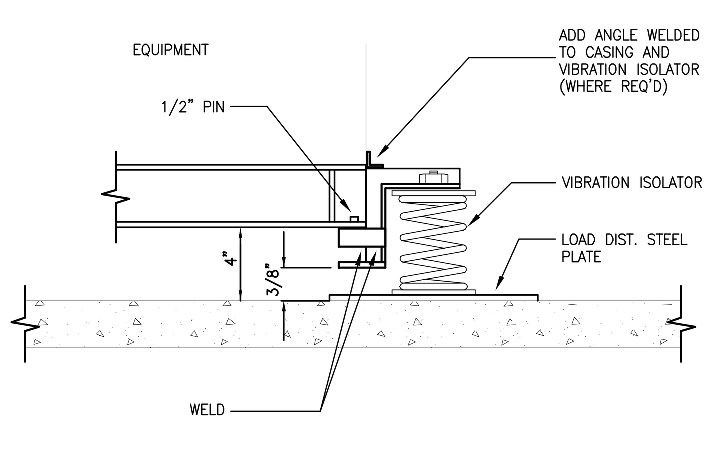
22 M401 DUCT CONNECTION TO LOUVER

SCALE: N.T.S.



17 M401 GAS FIRED HEATER DETAIL

SCALE: N.T.S.



8 M401 ISOLATOR HEIGHT SAVING BRACKET

SCALE: N.T.S.

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

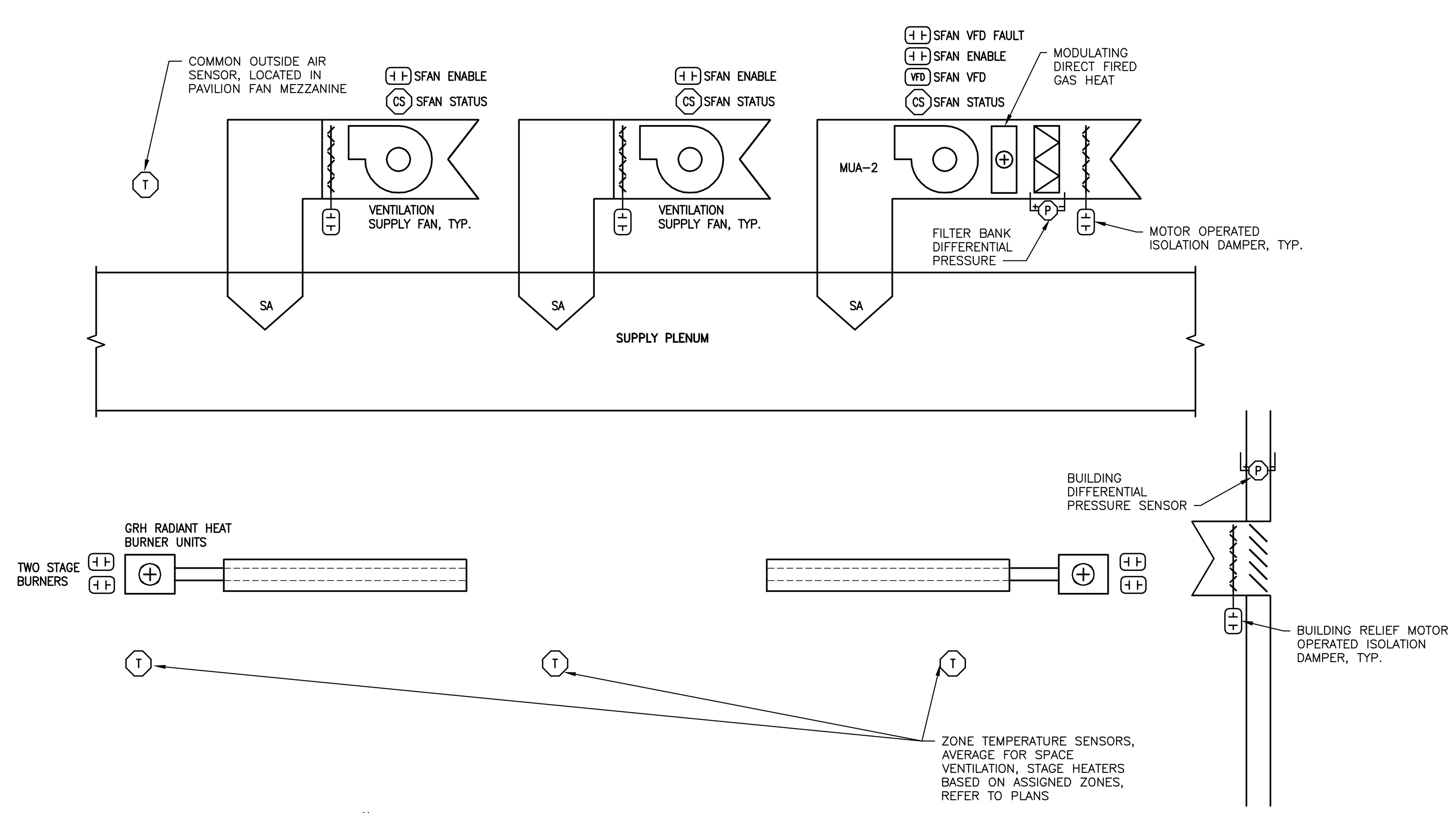
SHEET TITLE

MECHANICAL DETAILS

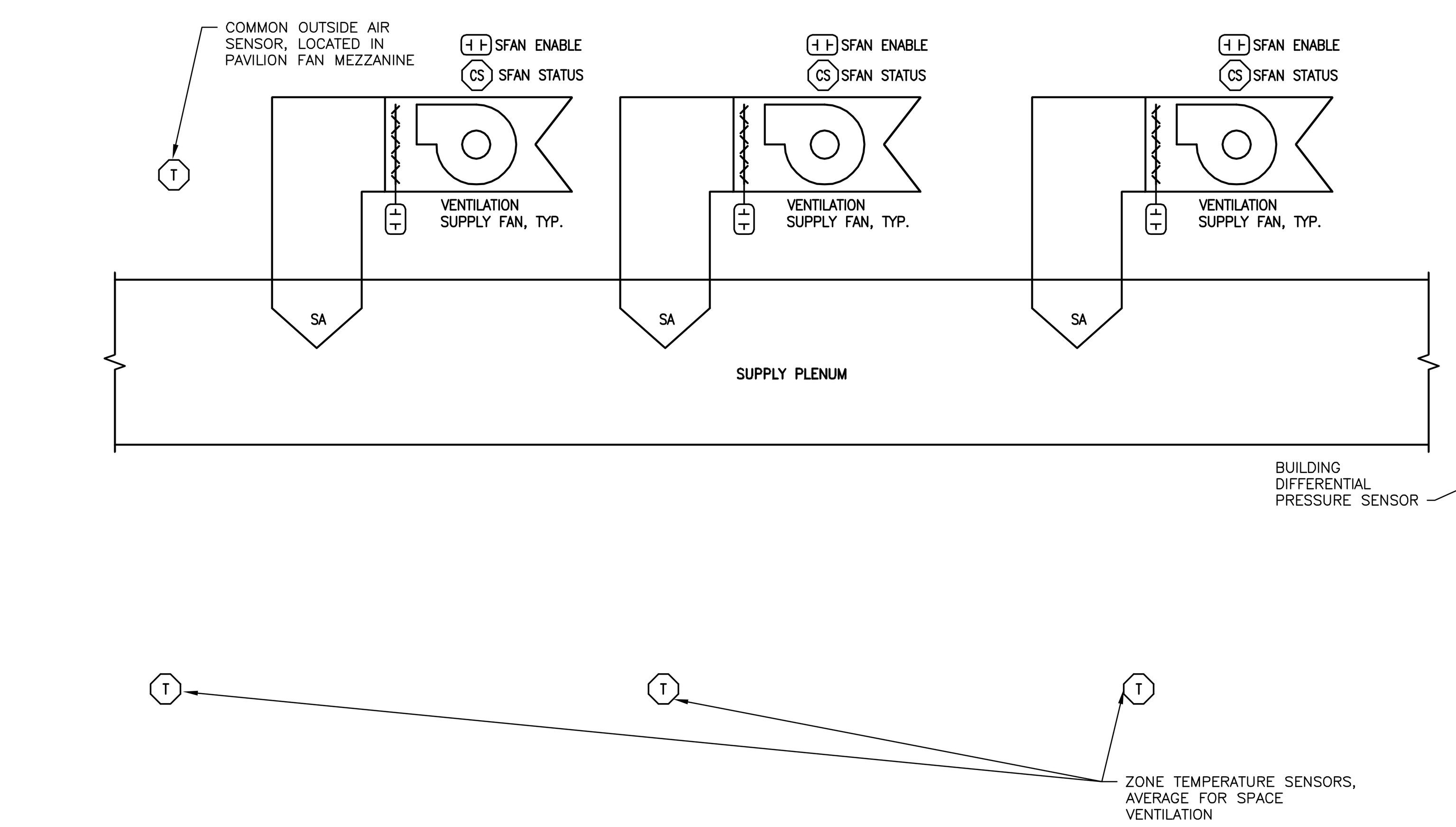
SHEET NO.

M401

NATHANIEL, ZACH 2013-6-18 10:43 AM K:_2013\2013027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALLS\DRAWINGS\2013027_02-M401.DWG



8
M402
PAVILION #1 HEATING AND VENTILATION CONTROL SCHEMATIC
SCALE:



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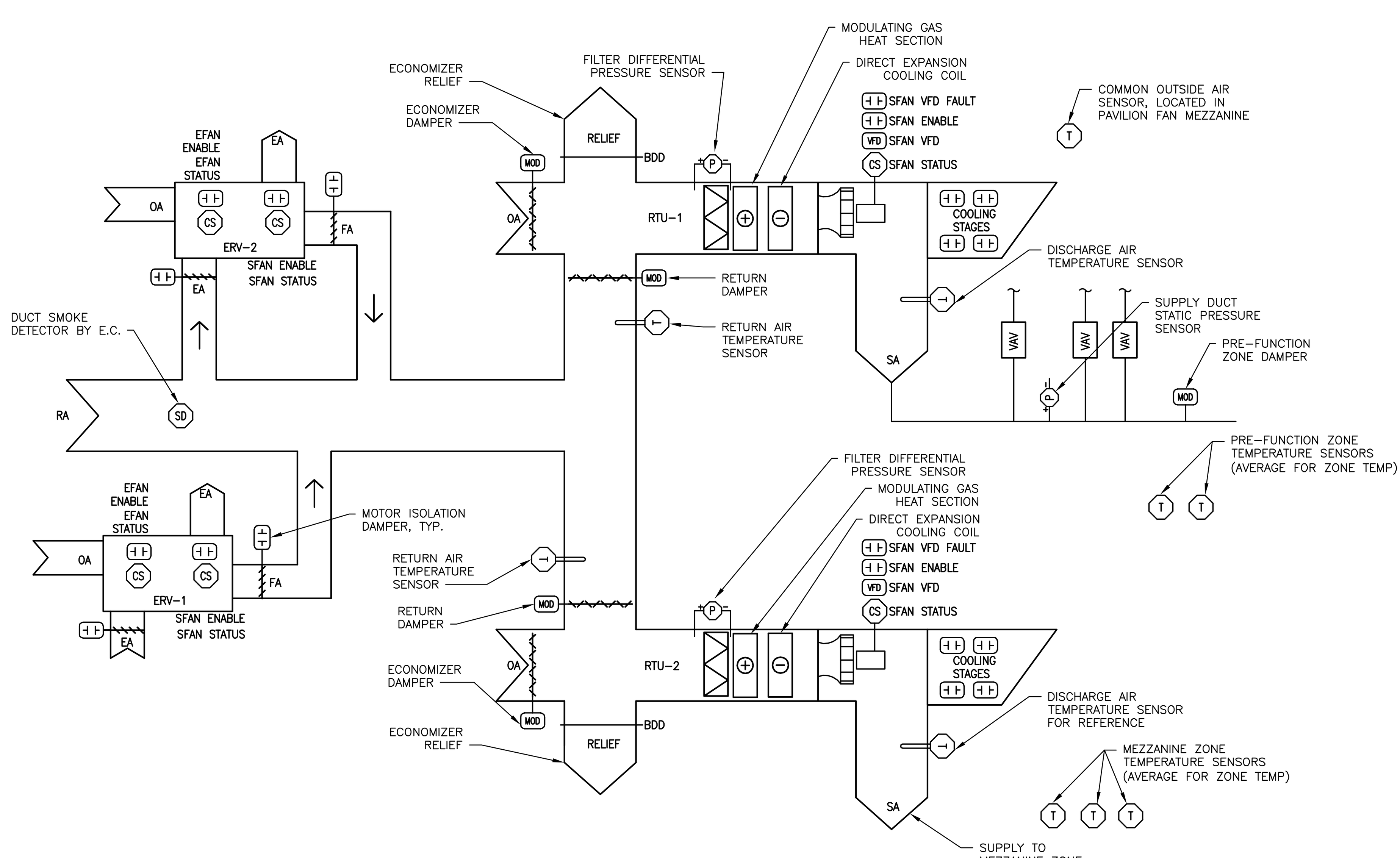

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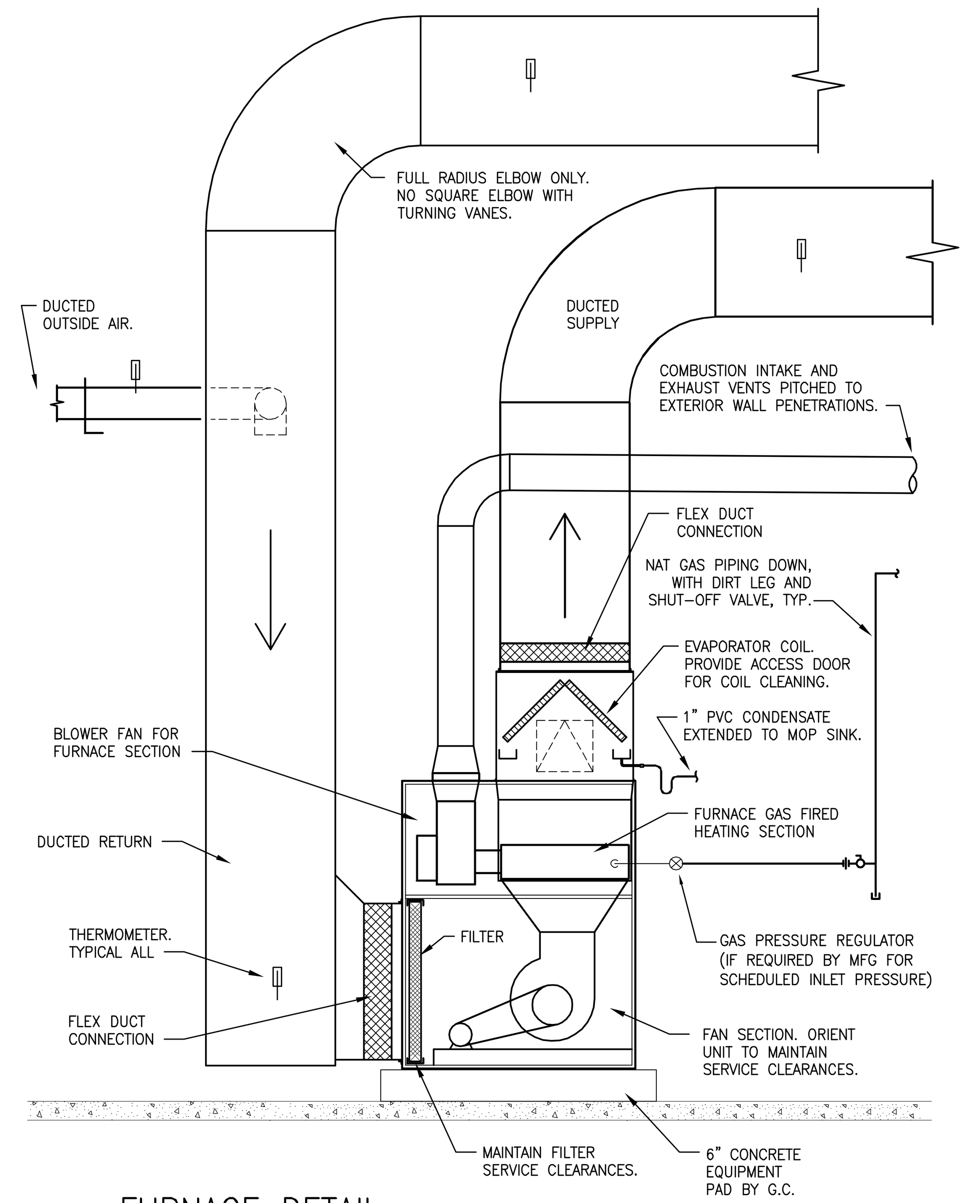

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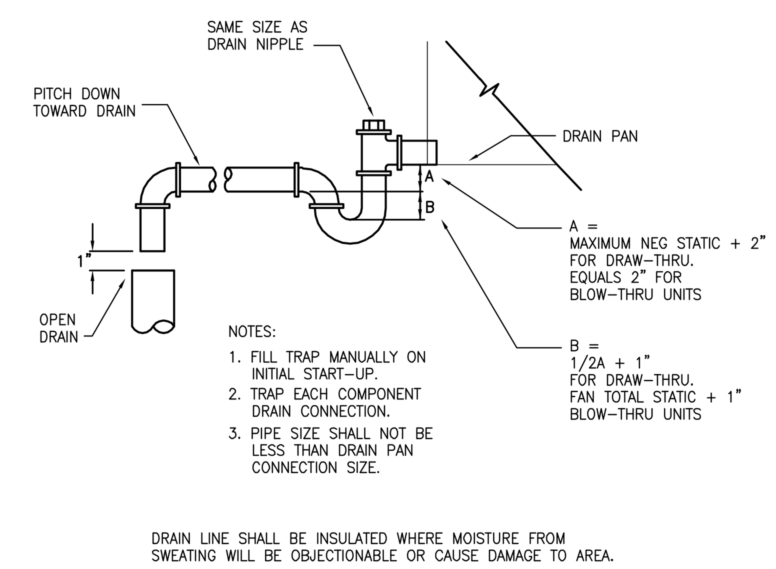

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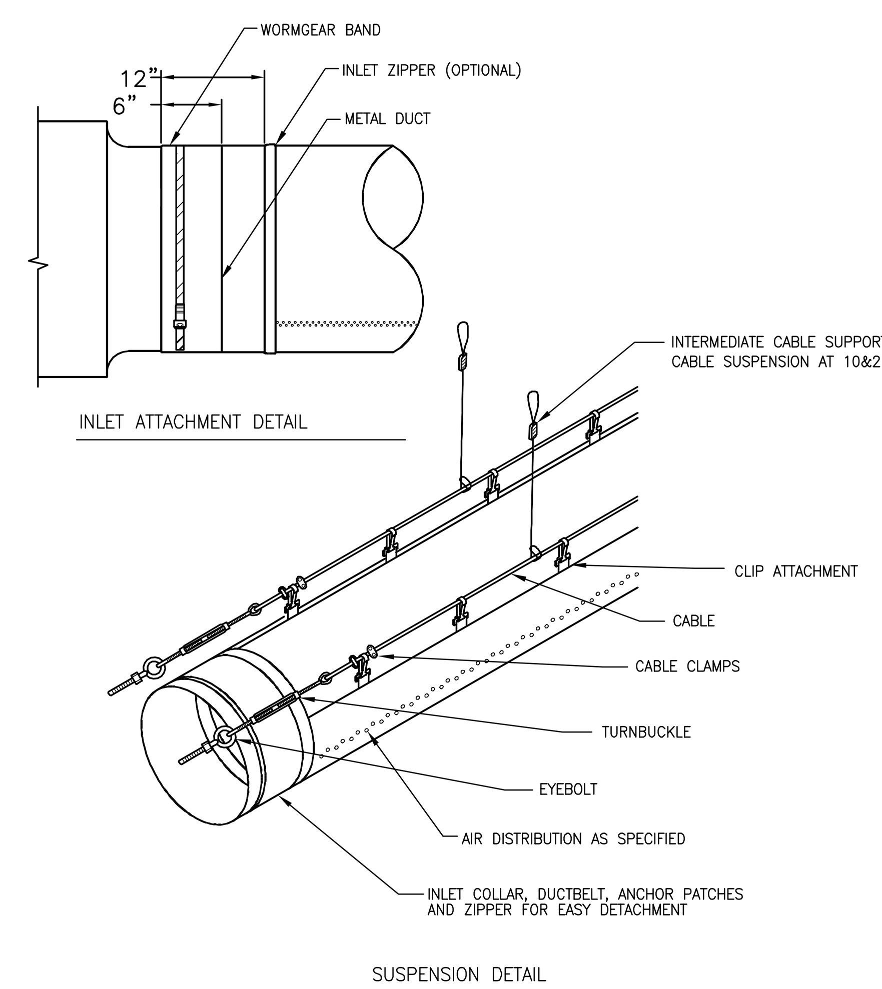

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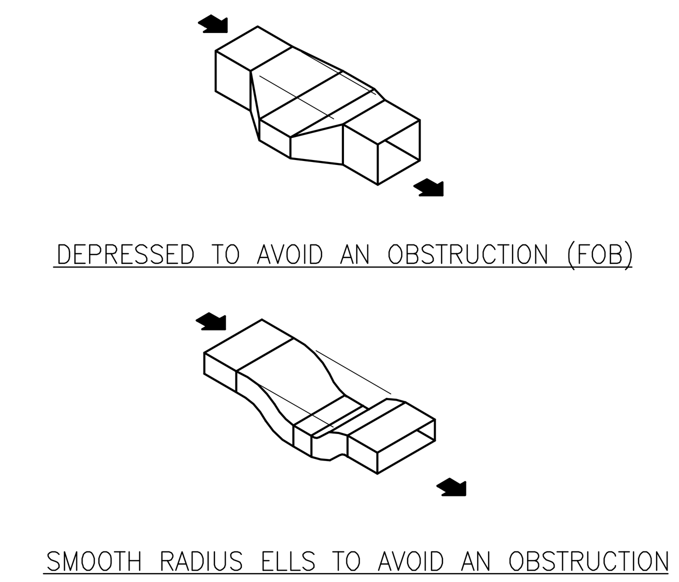

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DUCT OBSTRUCTION DETAILS
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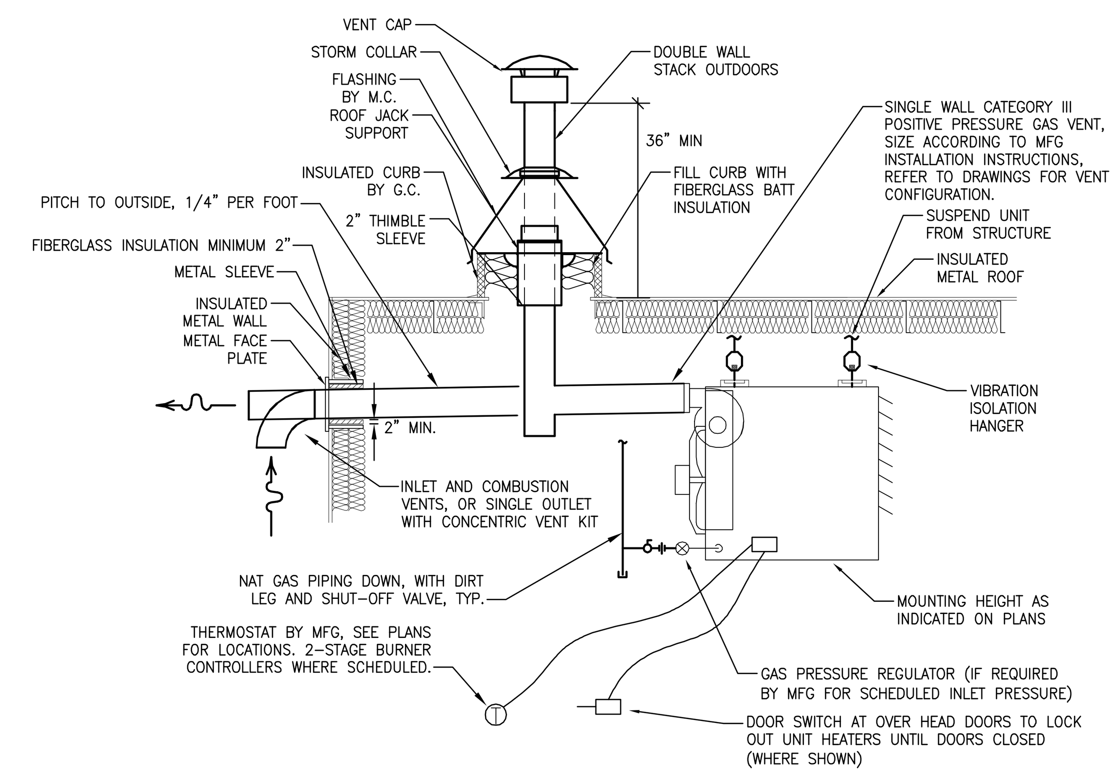

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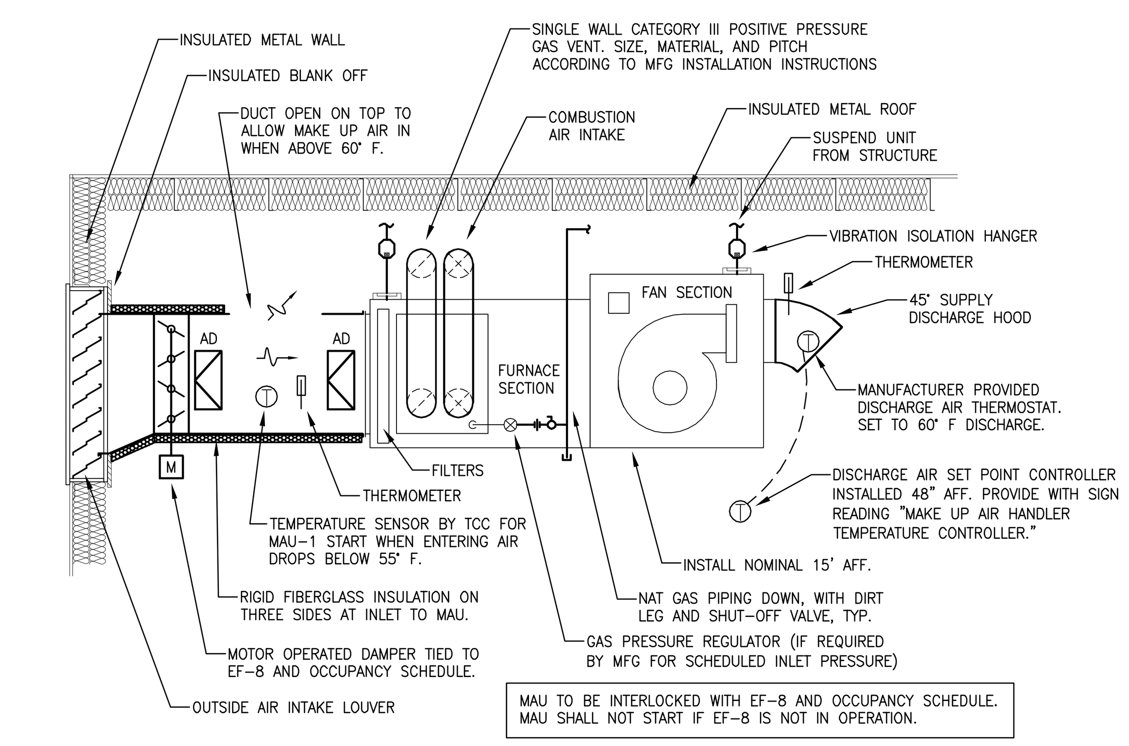
POWER VENTED GAS FIRED UNIT HEATER DETAIL
SCALE: NTS



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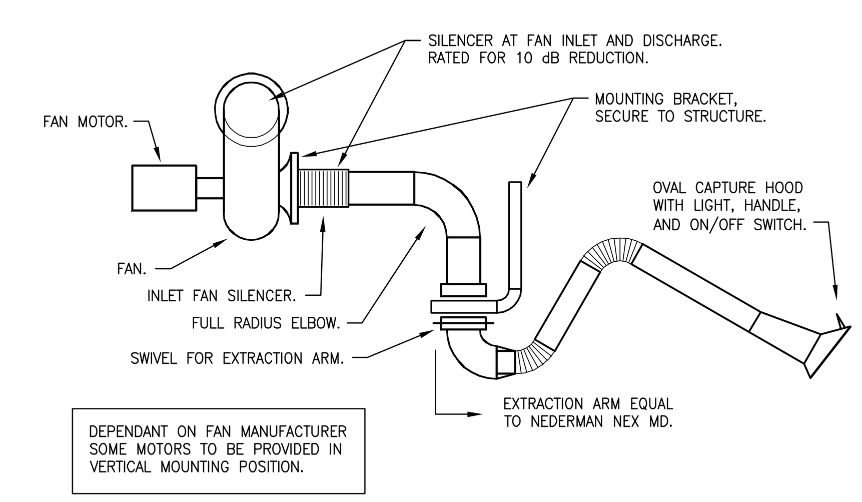
MAINTENANCE BUILDING
GAS FIRED MAKE UP AIR UNIT DETAIL
SCALE: N.T.S.



4
M402
WELDING EXHAUST DETAIL
SCALE: N.T.S.

STRANG

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

STRANG INC.
6411 MINERAL POINT ROAD
MADISON, WI 53705-4395

T/ 608 276 9200
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DATE	08-01-13
PROJECT NO.	2013027_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

HVAC DETAILS

SHEET NO.
M402

FAN SCHEDULE

TAG #	LOCATION	SERVICE	FAN TYPE	WHEEL TYPE: TYPE	WHEEL TYPE: MIN DIA	CFM	RPM	TOTAL S.P. ("WG)	BHP	FAN ARRANG.	DRIVE	DAMPER	INTERLOCK	MOTOR: HP	MOTOR: VOLT	MOTOR: PH	CONTROLS	REMARKS
SF-1-5	BLDG 1 FAN MEZZANINE	PAVILION 1 VENTILATION	VANEAXIAL OR MIXED FLOW	VA/MF	78"	104,000		–	49.8	INLINE	BELT OR DIRECT	MOD	BAS	50	460	3	A	1,2,5,6
SF-6-19	BLDG 2 FAN MEZZANINE	PAVILION 2 VENTILATION	VANEAXIAL OR MIXED FLOW	VA/MF	78"	104,000		–	49.8	INLINE	BELT OR DIRECT	MOD	BAS	50	460	3	A	1,2,5,6
SF-20	129 ELEC ROOM	EQUIPMENT COOLING	PROP	PROP	12"	1,000	890	0.30	0.21	WALL	DIRECT	MOD	RELIEF	1/4	120	1	G	2,5,7,8
SF-21	132 ELEC ROOM	EQUIPMENT COOLING	PROP	PROP	12"	1,000	890	0.30	0.21	WALL	DIRECT	MOD	RELIEF	1/4	120	1	G	2,5,7,8
SF-22	149 ELEC ROOM	EQUIPMENT COOLING	PROP	PROP	12"	1,000	890	0.30	0.21	WALL	DIRECT	MOD	RELIEF	1/4	120	1	G	2,5,7,8
SF-23	140 MILK PARLOR	140 MILK PARLOR	WALL SUPPLY	PROP	24"	3,400	1098	0.5	0.635	WALL	BELT	MOD		3/4	120	1	B	2,5,7,8
SF-24	143 CONCESSION	KITCHEN HOOD	INLINE	CENT	18"	2,400	960	0.75	0.58	INLINE	BELT	MOD	HOOD	3/4	120	1	–	1,2,4,7
CEF-1	109 ELEV EQUIP	ELEVATOR EQUIPMENT	CEILING CENTRIFUGAL	CENT	–	300	–	0.25	0.20	CABINET	DIRECT	BDD	–	1/4	120	1	G	6
EF-1	PRE-FUNCTION ROOF	GREASE EXHAUST	UPBLAST CENTRIFUGAL	BI	13.5	1350	1544	1.0	0.5	UPBLAST	DIRECT	–	HOOD	3/4	120	1	B	3,4,7,9
EF-2	BLDG 1 SHOWER	SHOWERS	INLINE CENTRIFUGAL	BI	12	1040	1450	0.6	0.28	INLINE	DIRECT	MOD		1/2	120	1	F	1,4,5,7
EF-3	BLDG 1 RESTROOM	RESTROOMS	INLINE CENTRIFUGAL	BI	12	1200	2273	0.6	0.34	INLINE	DIRECT	MOD		1/2	120	1	F	1,4,5,7
EF-4	143 CONCESSIONS	GREASE EXHAUST	TUBULAR CENTRIFUGAL	BI	12	1350	2160	1.0	0.47	INLINE	BELT	–	HOOD	3/4	120	1	B	1,2,7,9
EF-5	BLDG 2 EAST RESTROOM	RESTROOMS	INLINE CENTRIFUGAL	BI	12	1200	2273	0.6	0.34	INLINE	DIRECT	MOD		1/2	120	1	F	1,4,5,7
EF-6	BLDG 2 WEST RESTROOM	RESTROOMS	INLINE CENTRIFUGAL	BI	12	1200	2273	0.6	0.34	INLINE	DIRECT	MOD		1/2	120	1	F	1,4,5,7
EF-7A	142 MECHANICAL ROOM	MECH ROOM VENTILATION	WALL EXHAUST	PROP	36	7,500	679	0.25	0.825	WALL	BELT	BDD	ROOM INLET MOD	1	208	1	G	2,5,7
EF-7B	142 MECHANICAL ROOM	MECH ROOM VENTILATION	PROP	PROP	36	7,500	679	0.25	0.825	WALL	BELT	BDD	ROOM INLET MOD	1	208	1	G	2,5,7
EF-8	153 WORK AREA	153 WORK AREA	CENTRIFUGAL	CENT	–	1250	977	0.5	0.21	INLINE	DIRECT	MOD	DAMPER	1/2	120	1	E	1,4
EF-9	154 WELDING	WELDING SNORKEL	CENTRIFUGAL	CENT	–	700	3450	6.00	–		DIRECT	MOD	DAMPER	2	208	3	C	1,7,10
EF-10	159 MECH ROOM	RESTROOM AND MECH ROOM	CENTRIFUGAL	CENT	–	150	1288	0.25	–	INLINE	DIRECT	MOD	DAMPER	–	120	1	E	1,4,5,6

REMARKS:

1. PROVIDE VIBRATION ISOLATION.
2. PROVIDE OSHA APPROVED BELT GUARD.
3. PROVIDE ROOF CURB.
4. PROVIDE WITH ELECTRONICALLY COMMUTATED MOTORS AND FAN MOUNTED DIAL FOR BALANCING SPEED CONTROL.
5. MOTOR STARTER PROVIDED BY E.C.
6. DISCONNECT PROVIDED AND INSTALLED BY E.C.
7. PRE-WIRED DISCONNECT PROVIDED BY MANUFACTURER.
8. PROVIDE PACKAGED WALL FAN WITH INLET DAMPER, OUTLET SCREEN AND MOTOR GUARD
9. PROVIDE FAN ASSEMBLY UL 762 LISTED FOR GREASE EXHAUST UP TO 300°F, INCLUDE GREASE TRAPS, DRAINS AND ACCESS DOORS AND OTHER ACCESSORIES AS REQUIRED.
10. MOTOR STARTER PROVIDED BY FAN MANUFACTURER.

CONTROLS:

A. T.C.C. TO INTERLOCK WITH B.A.S.
B. MANUAL CONTROL WITH WALL SWITCH BY E.C.
C. MANUAL CONTROL WITH UNIT SWITCH, WIRED BY E.C.
D. INCLUDE ON-OFF-SPEED CONTROLLER FOR WALL MOUNTING BY E.C.
E. INTERLOCK WITH PROGRAMMABLE THERMOSTAT (OCCUPANCY)
F. INTERLOCK WITH LIGHTS BY E.C.
G. THERMOSTAT CONTROL. (REVERSE ACTING)

DIFFUSER, REGISTER AND GRILLE SCHEDULE

MARK	SERVICE	MOUNTING TYPE	FRAME	FASTENER	STYLE	PATTERN	MATERIAL	DAMPER	FINISH	COLOR	MAX. P.D. (HORIZ.)	MODEL	REMARKS
PSD-1	SUPPLY	CEILING	T-GRID	LAY-IN	24" LONG X (4) 1-1/2" WIDE SLOT	ADJUSTABLE 2-WAY	STEEL	NO	BAKED ENAMEL	WHITE	.10	CARNES DARD	2,3
PSD-2	SUPPLY	CEILING	T-GRID	LAY-IN	48" LONG X (4) 1-1/2" WIDE SLOT	ADJUSTABLE 2-WAY	STEEL	NO	BAKED ENAMEL	WHITE	.10	CARNES DARD	2,3
CD-1	SUPPLY	CEILING	BEVELED	SCREW	LOUVERED VANES 9x9x6"ø	4-WAY	STEEL	NO	BAKED ENAMEL	WHITE	0.06	CARNES SKSJ	
CD-2	SUPPLY	CEILING	BEVELED	SCREW	LOUVERED VANES 12x12x8"ø	4-WAY	STEEL	NO	BAKED ENAMEL	WHITE	0.06	CARNES SKSJ	
CD-3	SUPPLY	CEILING	BEVELED	SCREW	LOUVERED VANES 15x15x10"ø	4-WAY	STEEL	NO	BAKED ENAMEL	WHITE	0.06	CARNES SKSJ	
SR-1	SUPPLY	ROUND DUCT	CURVED FRAME	SCREW	SIZES INDICATED ON PLAN	DOUBLE DEFLECTION	ALUMINUM	YES	CLEAR ANODIZED	NATURAL	0.09	CARNES RDDMH	4
SG-2	SUPPLY	WALL	FLANGED	SCREW	3/4" BLADE SPACING, GRILLE DIMENSIONS INDICATED ON PLAN	DOUBLE DEFLECTION	STEEL	NO	BAKED ENAMEL	WHITE	.10	CARNES RSDBH	
SG-3	SUPPLY	DUCT	FLANGED	–	3/4" BLADE SPACING, GRILLE DIMENSIONS INDICATED ON PLAN	DOUBLE DEFLECTION	ALUMINUM	NO	CLEAR ANODIZE	NATURAL	.10	CARNES RADMH	
EG-1/TG-1/RG-1	EXH/TA/RA	CEILING / WALL	FLANGED	SURFACE	1/2"x1/2"x1/2" EGG CRATE		ALUMINUM	NO	BAKED ENAMEL	WHITE	0.05	CARNES RAPAF	2
EG-2/TG-2/RG-2	EXH/TA/RA	CEILING	FLANGED	LAY-IN	1/2"x1/2"x1/2" EGG CRATE		ALUMINUM	NO	BAKED ENAMEL	WHITE	0.05	CARNES RAPAF	1,2

REMARKS:

1. 24"x24" CEILING TERMINALS TO BE FLANGE FRAME FOR LAY-IN ON T-GRID CEILING FRAMES
2. BLACK INTERIOR COLOR OF PLENUM
3. PROVIDE CENTER TEES, NO INTERNAL INSULATION (MANUFACTURER PROVIDED EXTERNAL INSULATION OR FIELD WRAP EXTERIOR OF THE PLENUM). PROVIDE 48" UNITS WITH NOTCH AT MIDPOINT FOR 24x24 GRID.
4. PROVIDE WITH AIR SCOOP DAMPER OPTION.

SILENCER SCHEDULE

SIL #	SERVES	CFM	MAXIMUM VELOCITY (FPM)	MAX. P.D. (IN.)	DIMENSIONS (LxWxH)	MIN. DYNAMIC INSERTION LOSS (db): 63f	125f	250f	500f	1000f	2000f	4000f	8000f	REMARKS
1	SUPPLY FAN OUTLET	104,000	3000	0.2	85"øID X 65" LONG	*	*	*	*	*	*	*	*	1,2,3
2	SUPPLY FAN INLET	104,000	2000	0.22	92"x80"X36"	*	*	*	*	*	*	*	*	1,3
3	MUA-1 OUTLET	80,000	2400	0.24	84"x84"x36"	*	*	*	*	*	*	*	*	1,3

REMARKS:

1. INSERTION LOSS SHALL BE A FUNCTION OF THE REQUIRED FAN/SILENCER PERFORMANCE AS SCHEDULED.
2. CIRCULAR ATTENUATOR SIZED FOR DIRECT CONNECTION TO INLINE FAN OUTLET.
3. SILENCER DIMENSIONS, VELOCITIES AND PRESSURE DROPS INDICATED ARE FOR REFERENCE ONLY, BASED ON THE BASIS OF THE DESIGN LAYOUT.

GAS FIRED UNIT HEATER SCHEDULE

GUH #	LOCATION	TYPE (PROJECTION)	MODEL SIZE	FUEL/INLET PRESSURE (IN. W.C.)	AFUE (%)	BURNER OUTPUT (MBH)	VENTING CONFIGURATION	DISCHARGE LOUVER	CFM	THROW (FT)	MOTOR: HP	MOTOR: VOLTS	MOTOR: PH	REMARKS
1	WASH BAY 151	PROP FAN HORIZONTAL	150	N.G. / 7"	81%	120	POWER VENT	YES	2100	40	1/6	115	1	1,2,3,4,6
2	STORAGE 152	PROP FAN HORIZONTAL	30	N.G. / 7"	81%	10	POWER VENT	YES	500	25	1/15	115	1	1,2,3,6
3	WORK AREA 153	PROP FAN HORIZONTAL	300	N.G. / 7"	81%	250	POWER VENT	YES	4500	40	1/2	115	1	1,2,3,4,6
4	WELDING 154	PROP FAN HORIZONTAL	60	N.G. / 7"	81%	50	POWER VENT	YES	900	36	1/12	115	1	1,2,3,4,6
5	WORK AREA 161	PROP FAN HORIZONTAL	60	N.G. / 7"	81%	50	POWER VENT	YES	900	36	1/12	115	1	1,2,3,6
6	WORK AREA 161	PROP FAN HORIZONTAL	150	N.G. / 7"	81%	120	POWER VENT	YES	2100	40	1/6	115	1	1,2,3,4,6
7	115 MECHANICAL ROOM	PROP (HORIZ.)	30	N.G. / 7"	81%	24	POWER VENT	YES	505	25	1/20	120	1	1,2,3,6
8	140 MILK PARLOR	PROP (HORIZ.)	100	N.G. / 7"	81%	80	POWER VENT	YES	1490	42	1/12	120	1	1,2,3,6
9	141 MILK HOUSE	PROP (HORIZ.)	30	N.G./ 7"	81	24	POWER VENT	YES	505	25	1/20	120	1	5
10	142 MECHANICAL ROOM	PROP (HORIZ.)	30	N.G./ 7"	81	24	POWER VENT	YES	505	25	1/20	120	1	5
11	202 MEZZANINE	PROP (HORIZ.)	100	N.G. / 7"	81%	80	POWER VENT	YES	1490	42	1/12	120	1	1,2,3
12	202 MEZZANINE	PROP (HORIZ.)	100	N.G. / 7"	81%	80	POWER VENT	YES	1490	42	1/12	120	1	1,2,3

REMARKS:

1. BASED ON MODINE MODEL HDS/BTS INDIRECT GAS FIRED UNIT HEATERS.
2. SOUND CRITERIA AHRI STANDARD 350-2000; SOUND POWER LEVEL IN dB SHALL NOT EXCEED 55 IN ANY OCTAVE BAND.
3. LOW VOLTAGE THERMOSTAT, BURNER CONTROLS AND DISCONNECT BY UNIT MANUFACTURER.
4. 2-STAGE BURNER, LOW (50%) & HIGH (100%) FIRE CAPABILITY. (THERMOSTAT WITH 2-5 DEGREE TEMPERATURE DIFFERENTIAL BETWEEN BURNER STAGE OPERATION.)
5. EXISTING UNIT TO BE RE-LOCATED.
6. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT CONTROL.

POWER VENT GAS-FIRED RADIANT HEATER SCHEDULE

GRV #	LOCATION	COMMON VACUUM EXHAUSTER PUMP: TOTAL SYSTEM INPUT (BTU/HR)	BURNERS PER PUMP	VENT SIZE	ELECTRICAL (V/PH/A)	GAS FIRED BURNER UNITS: GRH #-#	MOUNTING HEIGHT (AFF)	TOTAL INPUT (MBH)	MAXIMUM INLET GAS	ELECTRICAL (V/PH/A)	MOUNTING ANGLE	REMARKS
1	120 BUILDING 1 PAVILION - NORTH	600,000	4	4"	120/1/11.6	1-1	15'-0"	150	14" W.C.	120/1/0.7	45°	1,2,3,4,5
						1-2	15'-0"	150	14" W.C.	120/1/0.7	45°	
						1-3	15'-0"	150	14" W.C.	120/1/0.7	45°	
						1-4	15'-0"	150	14" W.C.	120/1/0.7	45°	
2	120 BUILDING 1 PAVILION - WEST	410,000	5	4"	120/1/9.6	2-1	15'-0"	90	14" W.C.	120/1/0.7	0°	1,2,4,5
						2-2	15'-0"	90	14" W.C.	120/1/0.7	0°	
						2-3	15'-0"	90	14" W.C.	120/1/0.7	0°	
						2-4	15'-0"	90	14" W.C.	120/1/0.7	0°	
						2-5	15'-0"	75	14" W.C.	120/1/0.7	0°	
3	120 BUILDING 1 PAVILION - EAST	360,000	4	4"	120/1/9.6	3-1	15'-0"	90	14" W.C.	120/1/0.7	0°	1,2,4,5
						3-2	15'-0"	90	14" W.C.	120/1/0.7	0°	
						3-3	15'-0"	90	14" W.C.	120/1/0.7	0°	
						3-4	15'-0"	90	14" W.C.	120/1/0.7	0°	
4	120 BUILDING 1 PAVILION - SOUTH	600,000	4	4"	120/1/11.6	4-1	15'-0"	150	14" W.C.	120/1/0.7	45°	1,2,3,4,5
						4-2	15'-0"	150	14" W.C.	120/1/0.7	45°	
						4-3	15'-0"	150	14" W.C.	120/1/0.7	45°	
						4-4	15'-0"	150	14" W.C.	120/1/0.7	45°	

REMARKS:

1. BASED ON DETROIT RADIANT HLV.
2. PROVIDE GAS PRESSURE REGULATORS (IF REQUIRED) TO ACCEPT 5.0 PSI BUILDING GAS PRESSURE.
3. ADJUST REFLECTOR 45° AWAY FROM OUTSIDE WALL
4. PROVIDE COMPLETE SYSTEM, ENGINEERED ACCORDING TO MANUFACTURERS GUIDELINES FOR MAXIMUM LENGTH OF RADIANT TUBING INCLUDING COMMON PIPE
5. REFER TO PLANS FOR LENGTH AND CONFIGURATION OF RADIANT SYSTEM.

ROOF TOP AIR HANDLING UNIT SCHEDULE

RTU #	MODEL	SERVICE	SUPPLY FAN: TOTAL CFM	MINIMUM CFM	MIN. O.A. CFM	WHEEL TYPE	RPM	TOTAL S.P. (IN. WG)	ESP (IN. WG)	FAN BHP	MOTOR: HP	VOLT	PH	COOLING COIL: EAT(°F.) DB	EAT WB	LAT(°F.) DB	LAT WB	TOTAL MBH	SENS MBH	MIN. EER	HEATING (NATURAL GAS): HEATING CFM	OUTPUT MBH	EAT (°F.)	LAT (°F.)	MIN. % EFF.	UNIT / ELECTRICAL: VOLTS	PHASE	MCA	MOCP	FILTER SECTION	100% ECONOMIZER	DISCHARGE DIRECTION	REMARKS
1		FIRST FLOOR PRE-FUNCTION	8,500	2,500	0	FC	1572	3.25	1.5	6.64	7.5	460	3	80.8	67.5	54.3	54.3	314	219	10.7	4,250	190	44	85	80	460	3	70	90	2" MERV 8	YES	VERTICAL	1,2,3,4,5,6
2		MEZZANINE PRE-FUNCTION	10,000	3,000	0	FC	1423	3.76	1.5	8.78	15	460	3	80.8	67.5	55.7	55.6	331	241	11	5,000	222	44	85	80	460	3	80	100	2" MERV 8	YES	VERTICAL	1,2,3,5,6

REMARKS:

1. BASED ON JCI, AAON
2. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE COOLING COIL/CABINET AND SCHEDULED FILTERS.
3. UNIT MOUNTED VARIABLE FREQUENCY DRIVE AND DISCONNECTS TO BE PROVIDED BY UNIT MANUFACTURER
4. INCLUDE 120 VOLT UNPOWERED GFI OUTLET WITH UNIT; FIELD POWER BY ELECTRICAL CONTRACTOR.
5. PROVIDE BAROMETRIC RELIEF DAMPER WITH ECONOMIZER (100% RELIEF).
6. PROVIDE GAS PRESSURE REGULATORS (IF REQUIRED) FOR BUILDING GAS PRESSURE OF 5.0 PSI

ENERGY RECOVERY VENTILATOR

ERV #	SERVES	TYPE	UNIT ELECTRICAL: VOLTS	PH	FLA	MCA	MOCP	EXHAUST FAN: CFM	ESP	HP	OA SUPPLY FAN: CFM	ESP	HP	COOLING (SUMMER) OUTSIDE/AIR SUPPLY EAT(°F) DB	EAT WB	LAT(°F) DB	LAT WB	EXHAUST AIR EAT(°F) DB	RH (%)	HEATING (WINTER) OUTSIDE/SUPPLY AIR EAT(°F) DB	EAT WB	LAT(°F) DB	LAT WB	EXHAUST AIR EAT(°F) DB	RH (%)	REMARKS
1	PRE-FUNCTION RESTROOMS	ENTHALPY CROSS FLOW CORE	460	3	4.8	10.8		1000	0.5	1.5	1,500	0.3	1.5	92.0	75.0	82.9	70.3	75.0	50.0	-15.0	-15.0	30.7	23.2	70.0	10.0	1,3,4
2	RTU-1,2 EVENT VENTILATION	ENTHALPY WHEEL	460	3	22	24.8	35.8	6,000	0.3	5.0	6,500	0.3	5.0	92	75	80.3	66.8	75	50	-15	-15	43.7	36.5	70	10	2,3,4

REMARKS:

1. BASED ON RENEWAIRE CROSS FLOW ENTHALPY UNITS
2. BASED ON SEMCO ENTHALPY WHEEL UNITS
3. INCLUDE DISCONNECT AND INDIVIDUAL FAN MOTOR STARTERS BY MANUFACTURER
4. ROOFTOP UNIT W/ VERTICAL EXHAUST AND SUPPLY CONNECTIONS, ROOF CURB PROVIDED BY MANUFACTURER

ELECTRIC WALL HEATER SCHEDULE

EWH #	LOCATION	CAPACITY (KW)	DIMENSIONS: H	W	D	ELECTRICAL VOLT/PH/AMP	REMARKS
1A	100 VESTIBULE	8.0	23"	32"	4"	208/1/38.5	1,2,3
1B	100 VESTIBULE	8.0	23"	32"	4"	208/1/38.5	1,2,3
2	101B STAIR	8.0	23"	32"	4"	208/1/38.5	1,2,4
3	122 MENS SHOWER	3.0	20"	16"	6"	208/1/14.4	2,4,5
4	127 MENS TOILET	4.0	20"	16"	6"	208/1/19.2	2,4,5
5	130 TELE/DATA	4.0	20"	16"	6"	208/1/19.2	2,4,5
6	133 TELE/DATA	4.0	20"	16"	6"	208/1/19.2	2,4,5
7	150 TELE/DATA	4.0	20"	16"	6"	208/1/19.2	2,4,5
8	143 CONCESSIONS	3.0	20"	16"	6"	208/1/14.4	2,4,5
9	143 CONCESSIONS	3.0	20"	16"	6"	208/1/14.4	2,4,5
10	136 WOMENS TOILET	4.0	20"	16"	6"	208/1/19.2	2,4,5
11	136 WOMENS TOILET	4.0	20"	16"	6"	208/1/19.2	2,4,5
12	137 MENS TOILET	4.0	20"	16"	6"	208/1/19.2	2,4,5
13	137 MENS TOILET	4.0	20"	16"	6"	208/1/19.2	2,4,5
14	BLDG 2 EAST MOP BASIN	1.5	20"	16"	6"	208/1/7.2	2,4,5
15	138 WATER ROOM	3.0	20"	16"	6"	208/1/14.4	2,4,5
16	146 WOMENS TOILET	4.0	20"	16"	6"	208/1/19.2	2,4,5
17	146 WOMENS TOILET	4.0	20"	16"	6"	208/1/19.2	2,4,5
18	147 MENS TOILET	4.0	20"	16"	6"	208/1/19.2	2,4,5
19	147 MENS TOILET	4.0	20"	16"	6"	208/1/19.2	2,4,5
20	BLDG 2 WEST MOP BASIN	1.5	20"	16"	6"	208/1/7.2	2,4,5
21	148 WATER ROOM	3.0	20"	16"	6"	208/1/14.4	2,4,5
22	129 ELEC ROOM	4.0	20"	16"	6"	208/1/19.2	2,4,5
23	132 ELEC ROOM	4.0	20"	16"	6"	208/1/19.2	2,4,5
24	149 ELEC ROOM	4.0	20"	16"	6"	208/1/19.2	2,4,5

REMARKS:

1. BASED ON Q-MARK EFQ
2. PROVIDE INTEGRAL DISCONNECT AND TAMPERPROOF THERMOSTAT.
3. RECESSED MOUNTING (2 TOTAL)
4. SURFACE MOUNTING
5. BASED ON QMARK AWH

MAKE-UP AIR UNIT SCHEDULE

MAU #	LOCATION	MODEL	BURNER TYPE	INPUT (MBH)	OUTPUT (MBH)	AVG TEMP RISE (°F)	AIRFLOW (CFM)	EXT. S.P. (IN)	FAN MOTOR: HP	VOLTS	PHASE	FUEL: TYPE	INLET PRESSURE	BURNER	TURNDOWN	REMARKS
1	PRE-FUNCTION ROOF	MDB	DIRECT FIRED	110	–	80	1280	0.5	3/4	208	3	NAT GAS	14" W.C.	MODULATING	20:1	1,4,5,6,8,7
2	BLDG 1 FAN MEZZANINE	R373	DIRECT FIRED	6,950	–	80	80,000	1.10	80	460	3	NAT GAS	5.0 PSI	MODULATING	30:1	2,7,10
3	WASH BAY 151	IBS150	INDIRECT FIRED	150	120	88.9	1250	0.5	1/3	120	1	NAT GAS	5.0 PSI	MODULATING	2.4:1	3,7,8,9

REMARKS:

1. BASED ON MODINE.
2. BASED ON ABSULUTAIRE
3. BASED ON AIREDALE
4. INCLUDE MOTOR OPERATED INTAKE DAMPER, V-BANK FILTER SECTION W/ 2" MERV 8 FILTERS, ROOF CURB, AND INLET HOOD w/ BIRD SCREEN
5. FACTORY INSTALLED 115V GFI SERVICE RECEPTACLE (POWER BY E.C.)
6. ROOF CURB PROVIDED BY M.C., INSTALLED BY G.C.
7. PROVIDE UNIT GAS PRESSURE REGULATORS AS REQUIRED FOR INLET PRESSURE SCHEDULED.
8. INCLUDE FACTORY PROVIDED DISCHARGE AIR TEMPERATURE CONTROLS
9. DISCONNECT BY E.C.
10. PROVIDE WITH FACTORY MOUNTED VARIABLE FREQUENCY DRIVE, SUPPLY FAN SHALL MODULATE DOWN TO 30% AIRFLOW, BURNER SHALL ACCOMMODATE THIS REDUCED AIRFLOW.

FURNACE SCHEDULE

F #	LOCATION	SERVICE	FAN: COOLING CFM	MIN. OA CFM	E.S.P. (IN. WG)	MOTOR: HP	VOLT	PHASE	MCA	MOCP	COOLING COIL: EAT(°F) DB	EAT WB	LAT(°F) DB	LAT WB	TOTAL MBH	SENSIBLE MBH	GAS HEAT: INPUT CAPACITY (MBH)	OUTPUT CAPACTY (MBH)	INLET GAS PRESSURE (IN. W.C.)	# OF HEAT STAGES	HEATING CFM	EAT (°F)	LAT (°F)	REMARKS
1	159 MECH	1ST FLOOR OFFICE	800	200	0.5	1/3	120	1	–	15	80	67	55	55	28	21	55	50	0.5	1	800	50	110	1,2,3

REMARKS:

1. NATURAL GAS HEAT
2. DISCONNECT BY E.C.
3. MANUFACTURER PROVIDED PROGRAMMABLE THERMOSTAT WITH SCHEDULING FUNCTION.

ELECTRIC BASEBOARD SCHEDULE

EBB #	LOCATION	MOUNTING	CAPACITY (W)	CAPACITY (BTUH)	ELECTRIC (VOLT/PH)	DIMENSIONS (INCHES): DEPTH	LENGTH	HEIGHT	REMARKS
1	103 OFFICE	PEDESTAL	1200	4100	208/1	3"	8'-0"	5"	1,2
2	103 OFFICE	PEDESTAL	1200	4100	208/1	3"	8'-0"	5"	1,2
3	105 OFFICE	PEDESTAL	600	2050	208/1	3"	3'-0"	5"	1,2
4	105 OFFICE	PEDESTAL	2000	6825	208/1	3"	10'-0"	5"	1,2
5	111 RESTROOM	WALL	600	2050	208/1	3"	3'-0"	5"	1,2,3
6	113 RESTROOM	WALL	2000	6800	208/1	3"	8'-0"	5"	1,2,3
7	113 RESTROOM	WALL	1000	3400	208/1	3"	4'-0"	5"	1,2,3

REMARKS:

1. BASED ON VULCAN LBT
2. PROVIDE INTEGRAL UNIT MOUNTED LINE VOLTAGE DOUBLE POLE THERMOSTAT AND DISCONNECT.
3. MOUNT BASEBOARD 8" AFF IN RESTROOMS

VAV UNIT W/ ELEC. HEAT SCHEDULE

VAV #	SERVES	MAX. CFM	MIN. CFM	MIN. INLET SIZE	BOOSTER COIL: KW	V/PH/A	LAT (°F)	REMARKS
1	103 OFFICE	375	125	6	0.8	120/1/6.7	75	
2	105 OFFICE	340	120	6	0.8	120/1/6.7	75	
3	100 VESTIBULE	250	0	6	–	–	–	1
4	116 CONCESSIONS	900	500	10	3.2	208/1/15.2	75	2
5	102 LOBBY	700	210	8	–	–	–	1
6	115A DATA CLOSET	350	80	6	–	–	–	1

GENERAL NOTES FOR ZONE VAV UNITS

A. MAXIMUM TOTAL HEATER & VALVE STATIC PRESSURE DROP = 0.25" WG
B. BASED ON TITUS MODEL DESV.
C. HEATING ELEMENTS SIZED BASED ON 55°F EAT.

REMARKS:

1. COOLING ONLY UNIT
2. 2 STAGE ELECTRIC HEATING ELEMENT

SPLIT SYSTEM A/C UNIT SCHEDULE

TAG #	INDOOR UNIT: LOCATION	MODEL	TYPE	NOM. TONS	COND. PUMP	WIDTH (IN.)	DEPTH (IN.)	HEIGHT (IN.)	NET COOLING (MBH)	EAT (°F) DB	EAT (°F) WB	AIRFLOW (CFM)	ESP (IN W.C.)	AIR FILTER	UNIT POWER (MCA / MOCP / VOLTS / PHASE)	OUTDOOR UNIT: MODEL	SEER	NOM. TONS	UNIT WEIGHT (LBS.)	LENGTH (IN.)	REFRIG. PIPE SIZE: LIQUID	SUCTION	REFRIGERANT TYPE	UNIT POWER: MCA	MOCP	VOLTS	PHASE	REMARKS
SS-1	130 TELE/DATA	PKA-A24	WALL MOUNTED	2.0	NO	46	12	14	24.0	80	67	775	–	WASHABLE	POWERED BY OUTDOOR UNIT	PUY-A24NH	17	2.0	163	38	3/8"	5/8"	R410A	18	30	208	1	1,2,3,4,5
SS-2	133 TELE/DATA	PKA-A24	WALL MOUNTED	2.0	NO	46	12	14	24.0	80	67	775	–	WASHABLE	POWERED BY OUTDOOR UNIT	PUY-A24NH	17	2.0	163	38	3/8"	5/8"	R410A	18	30	208	1	1,2,3,4,5
SS-3	150 TELE/DATA	PKA-A24	WALL MOUNTED	2.0	NO	46	12	14	24.0	80	67	775	–	WASHABLE	POWERED BY OUTDOOR UNIT	PUY-A24NH	17	2.0	163	38	3/8"	5/8"	R410A	18	30	208	1	1,2,3,4,5
SS-4	139 OFFICE	MS-A09	WALL MOUNTED	0.75	NO	30	12	8	9.0	80	67	350	–	WASHABLE	POWERED BY OUTDOOR UNIT	MU-A09	13	0.75	78	32	1/4"	3/8"	R410A	14	15	120	1	1,2,4
SS-5	143 CONECSSIONS	PEAD-A42	HORIZONTAL DUCTED	3.5	YES	56	30	10	35	80	67	1450	0.5"	WASHABLE	POWERED BY OUTDOOR UNIT	PUY-A42	13.8	3.5	258	38	3/8"	5/8"	R410A	26	40	208	1	1,2,4,5

REMARKS:

1. BASED ON MITSUBISHI MR SLIM.
2. REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATION. EXTEND CONDENSATE TO LOCAL DRAIN WITH PROPER PITCH.
3. PROVIDE OPERATION DOWN TO -15°F WITH WIND BAFFLE AS REQUIRED.
4. DISCONNECT PROVIDED BY E.C.
5. INCLUDE MANUFACTURER PROVIDED WIRED REMOTE CONTROLLER

AIR COOLED CONDENSING UNIT SCHEDULE

ACCU #	SERVICE	MBH	MODEL	UNIT: AMBIENT	SEER	ELECTRIC: MCA	MOCP	VOLT/PH	REMARKS
1	F-1	28	13ACX-030-230-17	95.0	13	15.6	25	208/1	1,2

REMARKS:

1. BASED ON LENNOX.
2. DISCONNECT BY E.C.

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

STRANG INC.
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PROJECT NO.	2013027_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

MECHANICAL EQUIPMENT SCHEDULES

SHEET NO.

M501

LIGHT FIXTURE SCHEDULE

TYPE 'X'

1. MANUFACTURERS SHOWN ARE BASIS OF DESIGN. ALTERNATE PRODUCTS SIMILAR IN APPEARANCE AND PERFORMANCE ARE PERMITTED WITH PRIOR APPROVAL FROM A/E.

EM – EMERGENCY; CONNECT TO EMERGENCY CIRCUIT INDICATED.

2. SEE SPECIFICATION SECTION 26 51 00 FOR APPROVED BALLAST. COORDINATE WITH MANUFACTURER AS REQUIRED TO MEET SPECIFICATION.

MOUNTING: (MTG)
- RE – RECESSED
- SP – SUSPENDED
- CL – CEILING SURFACE
- W – WALL
- UC – UNDER CABINET
- CV – COVE
- PL – POLE
- S – SURFACE
- U – UNIVERSAL
- O – OTHER (SEE DESCRIPTION)

LAMP TYPE:
- FL – FLUORESCENT
- CF – COMPACT FLUORESCENT
- IN – INCANDESCENT
- LED – LIGHT EMITTING DIODE
- HPS – HIGH PRESSURE SODIUM
- HLG – HALOGEN
- MH – METAL HALIDE
- PSMH – PULSE START METAL HALIDE
- CMH – CERAMIC METAL HALIDE
- O – OTHER (SEE DESCRIPTION)

LENS/LOUVER:
- A – ACRYLIC
- B – BLACK BAFFLE
- C – CLEAR ALZAK
- D – PARABOLIC
- L – LOW IRIDESCENT SEMI-SPECULAR ALUMINUM
- N – NONE
- S – SPECULAR CLEAR
- O – OTHER (SEE DESCRIPTION)

BALLAST TYPE:
- EM – EMERGENCY BATTERY
- DIM – DIMMING BALLAST
- SDIM – STEP DIMMING BALLAST
- ADIM – DIGITAL ADDRESSABLE BALLAST
- IS – INSTANT START
- PS – PROGRAMMED START
- RS – RAPID START
- SCWA – SUPER CONSTANT WATTAGE
- eHID – ELECTRONIC HID
- LED – LED ELECTRONIC DRIVER

BALLAST FACTOR:
- LBF – LOW, BF < 0.85
- NBF – NORMAL, BF 0.85–1.0
- HBF – HIGH, BF > 1.01

FIXTURE NUMBER	DESCRIPTION	MTG	LAMPS TYPE	LAMPS QUANTITY AND SIZE	VOLTAGE	LENS/ LOUVER	APPROVED MANUFACTURERS (LIST IS NOT EXCLUSIVE. MANUFACTURERS LISTED ARE BASIS FOR DESIGN.)	BALLAST TYPE	BALLAST FACTOR	NOTES
D1	6" ROUND DOWNLIGHT, MEDIUM BEAM	RE	LED	1000LMN 4100K	MVOLT	.	GOTHAM EVO 41 10 6AR MD LD OR APPROVED EQUAL	PS	NBF	
D2	6" ROUND DOWNLIGHT, WIDE BEAM	RE	LED	1000LMN 4100K	MVOLT	.	GOTHAM EVO 41 10 6AR WD LD OR APPROVED EQUAL	PS	NBF	
D3	6" ROUND DOWNLIGHT, NARROW BEAM	RE	LED	1000LMN 4100K	MVOLT	.	GOTHAM EVO 41 14 6AR ND LD OR APPROVED EQUAL	PS	NBF	
EX1	SINGLE FACE EXIT FIXTURE	W	LED	LED	.	.	LITHONIA – LVSAWXRUMCW	–	–	MOUNT EXIT FIXTURES ON WALL ABOVE DOOR FRAME AND BELOW LOUVERS IN PAVILION
EX2	EXIT FIXTURE	W	LED	LED	.	.	LITHONIA – EDG W 1 R	–	–	
EX3	DOUBLE FACE EXIT FIXTURE	W	LED	LED	.	.	LITHONIA – LVSAWXRUMCW	–	–	
F1	EXISTING 1X4 FIXTURE	S	FL	(2)F32WT8	.	.	EXISTING	–	–	REMOVED FROM EXISTING BUILDINGS AND REUSED AS INDICATED
F2	4-LAMP HIGH PRESSURE HOSE-DOWN IP65, IP66 AND IP67 RATED.	S	FL	(4)F54T5HO 4100K	MVOLT	.	LITHONIA – FHF 454L SD WITH (2) 2 LAMP BALLASTS	PS	NBF	
F3	FLUORESCENT DIRECT SUSPENED FIXTURE	S	FL	(2)F54T5HO 4100K	MVOLT	.	AXIS BEAM 4 – BBD S NO 4 NL4 T5HO 2 0 OR APPROVED EQUAL	PS	NBF	BOTTOM OF FIXTURE MOUNTED FLUSH WITH BOTTOM OF ACOUSTIC PANELS
F4	2X4 FLUORESCENT LENSED TROFFER	RE	FL	(2)32WT8 4100K	277V	.	LITHONIA 2SP8 G 3 32 A12125 277	PS	NBF	INSTALL LENS PRISM UP FOR EASE OF CLEANING
F5	2X4 FLUORESCENT DIRECT/INDIRECT TROFFER	RE	FL	(2)F32WT8 4100K	MVOLT	.	LEDALITE SHINE SERIES 3324-D1-SMS-T232-S-1 OR APPROVED EQUAL	PS	NBF	
F6	1X4 FLUORESCENT LENSED FIXTURE	RE	FL	(1)F32WT8 4100K	MVOLT	.	LITHONIA GT8 1 32 FW A12 MVOLT OR APPROVED EQUAL	PS	NBF	
F7	LINEAR FLUORESCENT WRAPAROUND	S	FL	(2) F32WT8 4100K	277V	A	LITHONIA LB METALUX WN DAYBRITE	PS	1.15	–
F8	LINEAR FLUORESCENT STRIP WITH WIREGUARD	SP/S	FL	(2) F32WT8 4100K	277V	A	LITHONIA C METALUX DAYBRITE	IS	.88	CHAIN HANG AT 12' AFF UNLESS OTHERWISE NOTED.
F9	LINEAR FLUORESCENT HIGH BAY, WIDE DISTRIBUTION	SP	FL	(6) F54T5HO 4100K	277V	A	LITHONIA IBZ METALUX HBL DAYBRITE	PS	1.15	CHAIN/CABLE HANG AT 18' AFF UNLESS OTHERWISE NOTED. WHERE MULTI-LEVEL SWITCHING IS SHOWN, SWITCH OUTER (2) LAMPS SEPARATELY FROM INNER LAMPS. WHERE 'NL' IS SHOWN OUTER (2) LAMPS SHALL BE UNSWITCHED AND INNER (4) LAMPS SWITCHED.
F10	VAPORTITE INDUSTRIAL	SP/S	FL	(2) F54T5HO 4100K	277V	A	LITHONIA VRI METALUX VT2 DAYBRITE	PS	1.01	CHAIN HANG AT 15' AFF UNLESS OTHERWISE NOTED.
F11	OUTDOOR LED WALLPACK, FULL CUTOFF WITH INTEGRAL PHOTOCELL.	WL	LED	880 LUMEN OUTPUT 4100K	277V	A	DAYBRITE WRN LUMARK XTOUR1A LITHONIA	LED	–	–
F12	1X4 (2) LAMP FLUORESCENT ROUGH SERVICE FIXTURE 0° STARTING ELECTRONIC BALLAST	S	FL	(2)32W T8, 4100K	120V	–	LITHONIA – VDS 2 32 MVOLT	PS	NBF	
F13	LED STRIPLIGHT.	W	LED	2100 LUMEN 4100K	277V	A	LITHONIA MNSL MV M6 OR APPROVED EQUAL	LED	1.01	
F14	2' WALL MOUNTED WRAPAROUND	W	FL	(1)17WT8 4100K	277V	–	LITHONIA – VWC 1 17 277	PS	NBF	
F15	LENSED LED LIGHT CHANNEL, IP66 RATED, FROSTED DIFFUSER	W	LED	60 LMN/FT 2700K	277V	–	TRAXON TU.DM OR APPROVED EQUAL	LED	–	
P1	16' DIAMETER INDIRECT PENDANT	–	–	(48) 14W T5	277V	–	VISA CP5022	FL	0.7–0.8BF	–
P2	MINI CYLINDER SUSPENDED DOWNLIGHT. ALUMINUM HOUSING, AIRCRAFT CABLE MOUNTED, NATURAL ALUMINUM FINISH. CAP WITH 1" RECESSED LENS.	SP	LED	250 LUMEN 25° BEAM 3000K	277V	–	B-K RM LED OR APPROVED EQUAL	LED	–	SUSPEND SO FIXTURE IS AT 12' AFF PROVIDE ALL REQUIRED ACCESSORIES AND TRANSFORMERS FOR A COMPLETE SYSTEM.
P2B	SAME AS P2 WITH 18° BEAM	–	–	250 LUMEN 18° BEAM 3000K	277V	–	B-K RM LED OR APPROVED EQUAL	–	–	–
P2B	SAME AS P2 WITH 36° BEAM	–	–	250 LUMEN 36° BEAM 3000K	277V	–	B-K RM LED OR APPROVED EQUAL	–	–	–
T1	TWO HEAD, CANOPY MOUNTED, AIMABLE TRACK LUMINAIRE, NATURAL ALUMINUM FINISH.	–	–	1600 LUMEN/HEAD 50° BEAM 3000K	277V	–	INTENSE MBS OR APPROVED EQUAL	–	–	–
T1B	SAME AS T1 WITH 24° BEAM SPREAD	–	–	1600 LUMEN/HEAD 24° BEAM 3000K	277V	–	INTENSE MBS OR APPROVED EQUAL	–	–	–
T1C	SAME AS T1 WITH ONE HEAD AND 16° BEAM SPREAD	–	–	1600 LUMEN 16° BEAM 3000K	277V	–	INTENSE MBS OR APPROVED EQUAL	–	–	–

F2 notes:
1.) UL Listed for 40 degree C Ambient
2.) Suitable For Wet Location but more importantly IP65, IP66 and IP67 rated.
3.) Certified to meet NSF Splash Zone 2
4.) NEMA 4X , 1500 PSI Hose Down.
5.) One-Piece 5VA rated Fiberglass housing with continuous closed cell gasket.
minimize
6.) Tool Less ballast and wiring access.
7.) Injection Molded, Impact Resistant clear acryluc diffuser with frosted ends and side lineal prisms. (Helps control Brightness/Glare)
8.) The diffuse must be securely tethered to the fixture for ease of maintenance.
9.) There must be 12 Stainless Steel Diffuser Latches.
10.) The reflectors are segmented optics with 95% reflectivity.
11.) T5HO Starting Temperature is –20 F.
12.) Lamp sockets are rotary locking for ease of maintenance and minimizing lamps loosening from any building vibration.

F13 note: MOUNTED IN WOOD SCRIM AS SHOWN ON ARCHITECTURAL PLANS, ELEVATIONS AND SECTIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL FIXTURE COUNT AND FOR MOUNTING DETAILS AND REQUIREMENTS

F15 note: PROVIDE ALL FIXTURE LENGTHS, CONNECTORS, DRIVERS AND MOUNTING ACCESSORIES TO PROVIDE CONTINUOUS AROUND (BOTTOM AND SIDES) OF ALL WOOD ELEMENTS DENOTED "WD-2" ON ARCHITECTURAL DRAWINGS. LAYOUT SHOWN ON E DRAWINGS IS FOR REFERENCE ONLY, REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS. CONTRACTOR SHALL SUBMIT DIMENSIONED SHOP DRAWINGS SHOWING ELEVATIONS AND SECTIONS OF INSTALLED FIXTURES IN EACH INSTANCE OF WD-2.

ELECTRICAL SYMBOL LEGEND

- FX CKT a,b,os – FLUORESCENT FIXTURE RECESSED, SURFACE, SUSPENDED, OR WALL MTD.
  - CIRCUIT NUMBER OR CONTROL RELAY DESIGNATION.
  - SWITCHING DESIGNATION. MULTIPLE DESIGNATIONS INDICATE SWITCHING WILL OCCUR FROM MULTIPLE DEVICES. CONTROLLED VIA DEVICES SHOWN IN ROOM IF NOT INDICATED.
  - FIXTURE DESIGNATION – SEE SCHEDULE
  - TYPICAL OF EACH FIXTURE LOCATION
- LINEAR FLUORESCENT FIXTURE RECESSED, SURFACE OR SUSPENDED.
- LINEAR FLUORESCENT FIXTURE WALL MOUNTED.
- FLUORESCENT SUSPENDED FIXTURE
- TRACK FIXTURE
- LED OR COMPACT FLUORESCENT FIXTURE SURFACE, RECESSED, WALL MTD.
- WALL MOUNTED SURFACE LIGHT
- EXIT FIXTURE: SINGLE FACE, DOUBLE FACE, (ARROWS AS INDICATED)
- SELF-CONTAINED EMERGENCY LIGHTING UNIT
- $ $T $3 $4 $LV a – SWITCH: 1-POLE, 3-WAY, 4-WAY, LV – LOW VOLTAGE, T – TIMER(INTERMATIC EI400)
  - SWITCH DESIGNATION
- osa OS 2 – CEILING OCCUPANCY SENSOR
  - INDICATES SENSOR TYPE, SEE SENSOR SCHEDULE.
  - SWITCHING DESIGNATION, WHERE APPLICABLE.
- $OS – WALLBOX OCCUPANCY SENSOR
- PS – DAYLIGHT SENSOR
- DUPLEX GROUNDED RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- DUPLEX GROUNDED RECEPTACLE MTD. UP 48" OR ABOVE COUNTER.
- DOUBLE DUPLEX GROUNDED RECEPTACLE MTD. UP 48" OR ABOVE COUNTER.
- SIMPLEX RECEPTACLE. PROVIDE NEMA CONFIGURATION LISTED ON FLOOR PLANS.
- SIMPLEX RECEPTACLE. PROVIDE NEMA CONFIGURATION LISTED ON FLOOR PLANS. MTD. UP 48" OR ABOVE COUNTER.

RECEPTACLE NOTATIONS:
- GFI – GFIC
- WP – WEATHER-PROOF
- CLG – CEILING MOUNTED
- FLR – FLOOR MOUNTED
- D – DEDICATED CIRCUIT

- AV – RECESSED FLOOR FLOORBOX. SEE FLOORBOX SCHEDULE.
  - AV COMPARTMENT. FURNISH (2)1" CONDUIT FROM COMPARTMENT TO ACCESSIBLE CEILING.
  - TELE/DATA COMPARTMENT. FURNISH (2)1" CONDUIT FROM COMPARTMENT TO ACCESSIBLE CEILING.
  - (2)DUPLEX RECEPTACLE COMPARTMENT
- MOTOR OR SPECIAL EQUIP. CONNECTION
- J – JUNCTION BOX / EQUIPMENT CONNECTION
- NF – DISCONNECT SWITCH
  - NON-FUSED SWITCH
- PANEL BOARD
- T – TRANSFORMER
- CR R – CORD REEL WITH TRI-TAP RECEPTACLE PENDANT AND 40' CORD HUBBELL HBLC40123TT OR EQUAL
- CR L – CORD REEL WITH FLUORESCENT LIGHT PENDANT HUBBELL HBLC40163FL
- CR – CORD REEL WITH 4-DUPLEX, 120V
- REH – FIRE ALARM REENTRANT HORN SPEAKER
- FLUSH/SURFACE FIRE ALARM SPEAKER
- FIRE ALARM SPEAKER/STROBES: CANDEL AS SHOWN ON FLOOR PLAN.
- FIRE ALARM STROBES: CANDELA AS SHOWN ON FLOOR PLAN.
- F – FIRE ALARM MANUAL STATION
- AM – FIRE ALARM ADDRESSABLE MODULE
- S – FIRE ALARM SMOKE DETECTOR
- SD – FIRE ALARM DUCT SMOKE DETECTOR
- RTS – SMOKE DETECTOR REMOTE INDICATOR/TEST
- FS – SPRINKLER SYSTEM FLOW SWITCH
- TS – SPRINKLER SYSTEM TAMPER SWITCH
- DH – MAGNETIC DOOR HOLD OPEN
- NAC – NOTIFICATION POWER EXTENDER PANEL
- #D – TELECOM OUTLET: WALL LOCATION – 4 11/16" JUNCTION BOX WITH SINGLE GANG MUD RING, 3/4" STUB TO FLOOR/CEILING.
  - NUMBER OF CABLES.
- W – TELECOM OUTLET – WALL PHONE
- TELECOM OUTLET – COUNTERTOP HEIGHT
- TELECOM OUTLET – CEILING DROP
- WAP – WIRELESS ACCESS POINT. DEVICE INSTALLED BY OWNER, CABLING BY EC.
- CABLETRAY
  - 12 – WIDTH, INCHES
  - 4 – DEPTH, INCHES
- OVERHEAD DOOR CONTROLLER. DEVICE PROVIDED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR. MOUNT AT 60" AFF UNLESS NOTED OTHERWISE.

ABBREVIATIONS:
- EC – ELECTRICAL CONTRACTOR
- MC – MECHANICAL CONTRACTOR
- PC – PLUMBING CONTRACTOR
- TCC – TEMPERATURE CONTROLS CONTRACTOR
- OHD – OVERHEAD DOOR
- EM – EMERGENCY
- NL – NIGHT LIGHTING
- CLG – CEILING

OCCUPANCY SENSOR SCHEDULE

SENSOR TAG	DESCRIPTION	APPROVED MANUFACTURERS (LIST IS NOT EXCLUSIVE. MANUFACTURERS LISTED ARE BASIS FOR DESIGN.)	NOTES
NONE	CEILING MOUNTED DUAL TECHNOLOGY. 360° COVERAGE FURNISH WITH REQUIRED POWER PACK(S)	SENSOR SWITCH CM-PDT-9-R ALTERNATES MUST BE SIMILAR IN PERFORMANCE & APPEARANCE	ALL SENSORS ARE THIS TYPE UNLESS TAGGED OTHERWISE. ADD EXTRA CONTACTS FOR HVAC EXHAUST FAN CONTROLS
TYPE 1	WALL MOUNTED DUAL TECHNOLOGY. FURNISH WITH REQUIRED POWER PACK(S)	SENSOR SWITCH WSD PDT 2P MLO WH ALTERNATES MUST BE SIMILAR IN PERFORMANCE & APPEARANCE	

GENERAL NOTES:
1. SEE SHEET E401 FOR ADDITIONAL OCCUPANCY SENSOR DETAILS.

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
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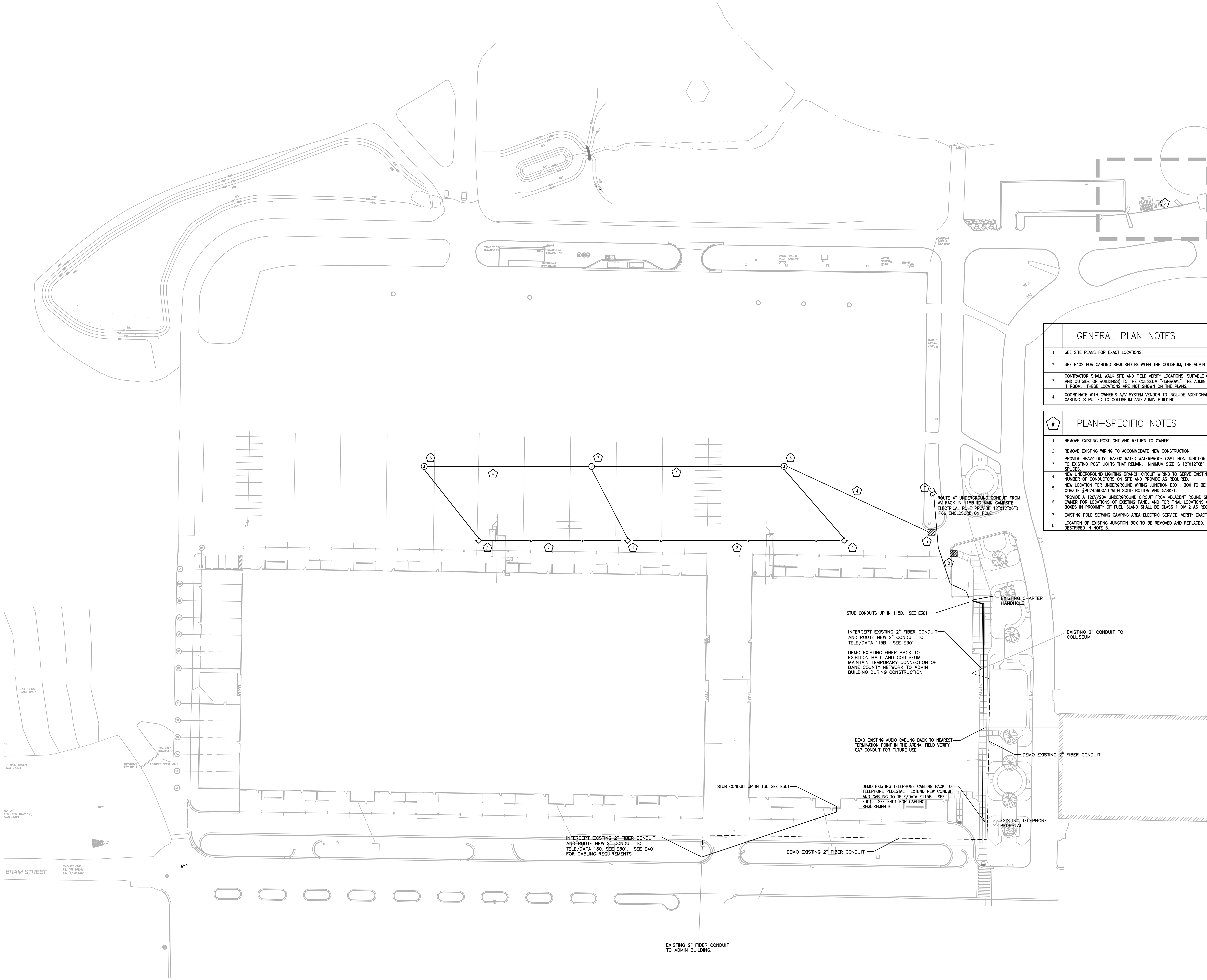
SHEET TITLE

ELECTRICAL SYMBOLS/ABBREV. FIXTURE SCHEDULE

SHEET NO.

E001



GENERAL PLAN NOTES

1	SEE SITE PLANS FOR EXACT LOCATIONS.
2	SEE E402 FOR CABLING REQUIRED BETWEEN THE COLISEUM, THE ADMIN BUILDING AND THE EXPOSITION HALL.
3	CONTRACTOR SHALL WALK SITE AND FIELD VERIFY LOCATIONS, SUITABLE CABLE ROUTING AND EXISTING PATHWAYS (INSIDE AND OUTSIDE OF BUILDINGS) TO THE COLISEUM "FISHBOWL", THE ADMIN BUILDING IT CLOSET, AND THE EXPOSITION HALL IT ROOM. THESE LOCATIONS ARE NOT SHOWN ON THE PLANS.
4	COORDINATE WITH OWNER'S A/V SYSTEM VENDOR TO INCLUDE ADDITIONAL CABLES, SUPPLIED BY OTHERS, WHEN NEW CABLING IS PULLED TO COLLISEUM AND ADMIN BUILDING.

PLAN–SPECIFIC NOTES

#	
1	REMOVE EXISTING POSTLIGHT AND RETURN TO OWNER.
2	REMOVE EXISTING WIRING TO ACCOMMODATE NEW CONSTRUCTION.
3	PROVIDE HEAVY DUTY TRAFFIC RATED WATERPROOF CAST IRON JUNCTION BOX TO FACILITATE THE REWIRING OF CIRCUITS TO EXISTING POST LIGHTS THAT REMAIN. MINIMUM SIZE IS 12"X12"X8" DEEP, VERIFY TO ACCOMMODATE WIRING AND SPLICES.
4	NEW UNDERGROUND LIGHTING BRANCH CIRCUIT WIRING TO SERVE EXISTING POST LIGHTS THAT REMAIN. VERIFY SIZE AND NUMBER OF CONDUCTORS ON SITE AND PROVIDE AS REQUIRED.
5	NEW LOCATION FOR UNDERGROUND WIRING JUNCTION BOX. BOX TO BE 24"X36"X30" DEEP. BOX TO BE SIMILIAR TO QUAZITE #PG2436DG30 WITH SOLID BOTTOM AND GASKET.
6	PROVIDE A 120V/20A UNDERGROUND CIRCUIT FROM ADJACENT ROUND SHED TO NEW FUEL ISLAND. COORDINATE WITH OWNER FOR LOCATIONS OF EXISTING PANEL AND FOR FINAL LOCATIONS OF FUEL PUMP EQUIPMENT. ALL CONDUIT AND BOXES IN PROXIMITY OF FUEL ISLAND SHALL BE CLASS 1 DIV 2 AS REQUIRED BY CODE AND AHJ.
7	EXISTING POLE SERVING CAMPING AREA ELECTRIC SERVICE. VERFIY EXACT LOCATION WITH OWNER.
8	LOCATION OF EXISTING JUNCTION BOX TO BE REMOVED AND REPLACED. EXTEND CABLES AND CONDUITS TO NEW BOX DESCRIBED IN NOTE 5.

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BID # 313072

1919 ALLIANT ENERGY CENTER WAY
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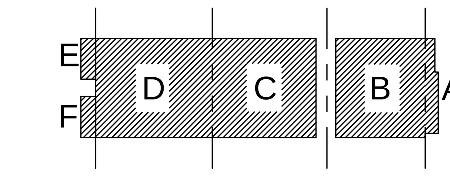


KEY PLAN

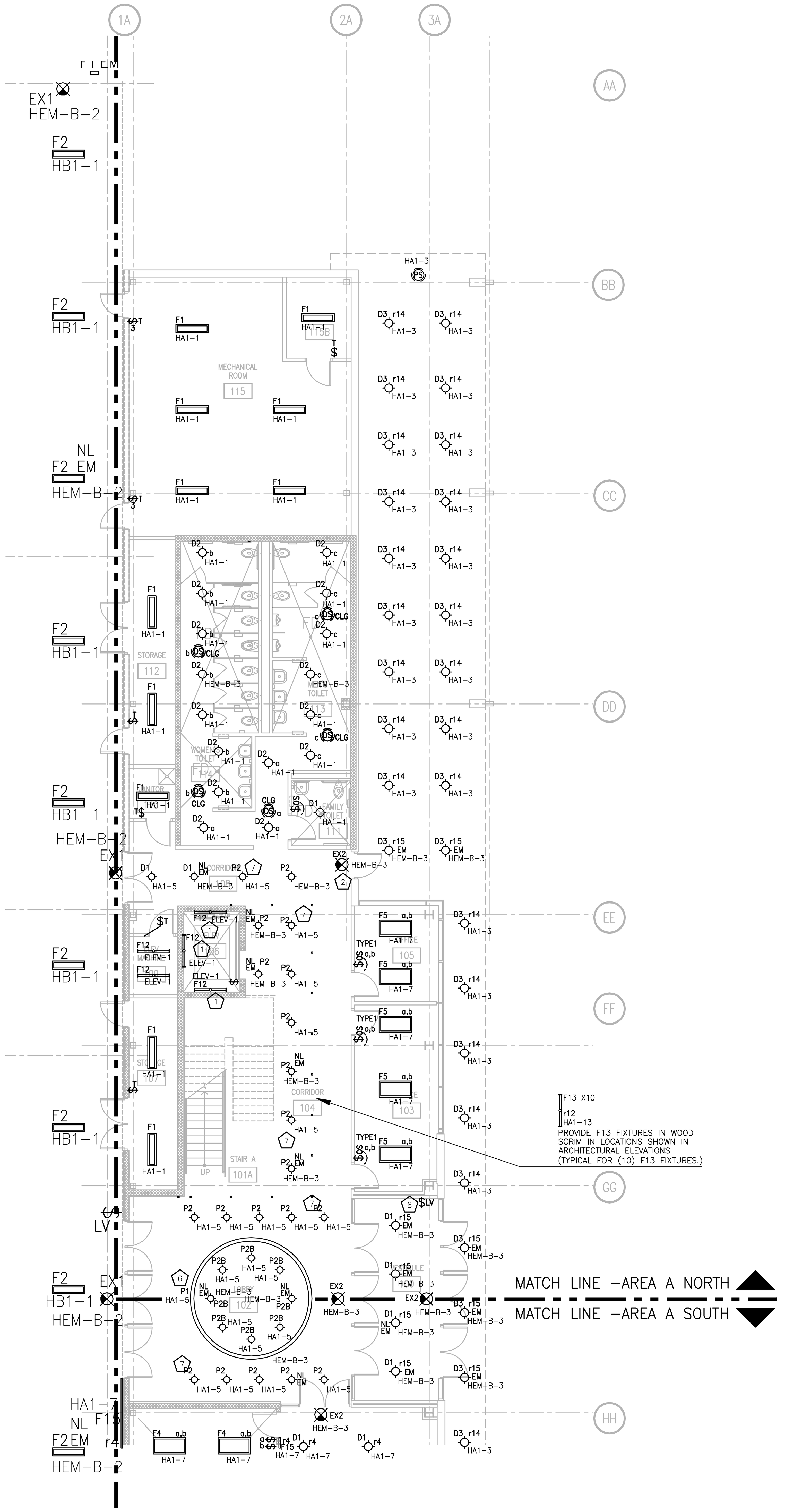
SHEET TITLE

ELECTRICAL OVERALL SITE PLAN

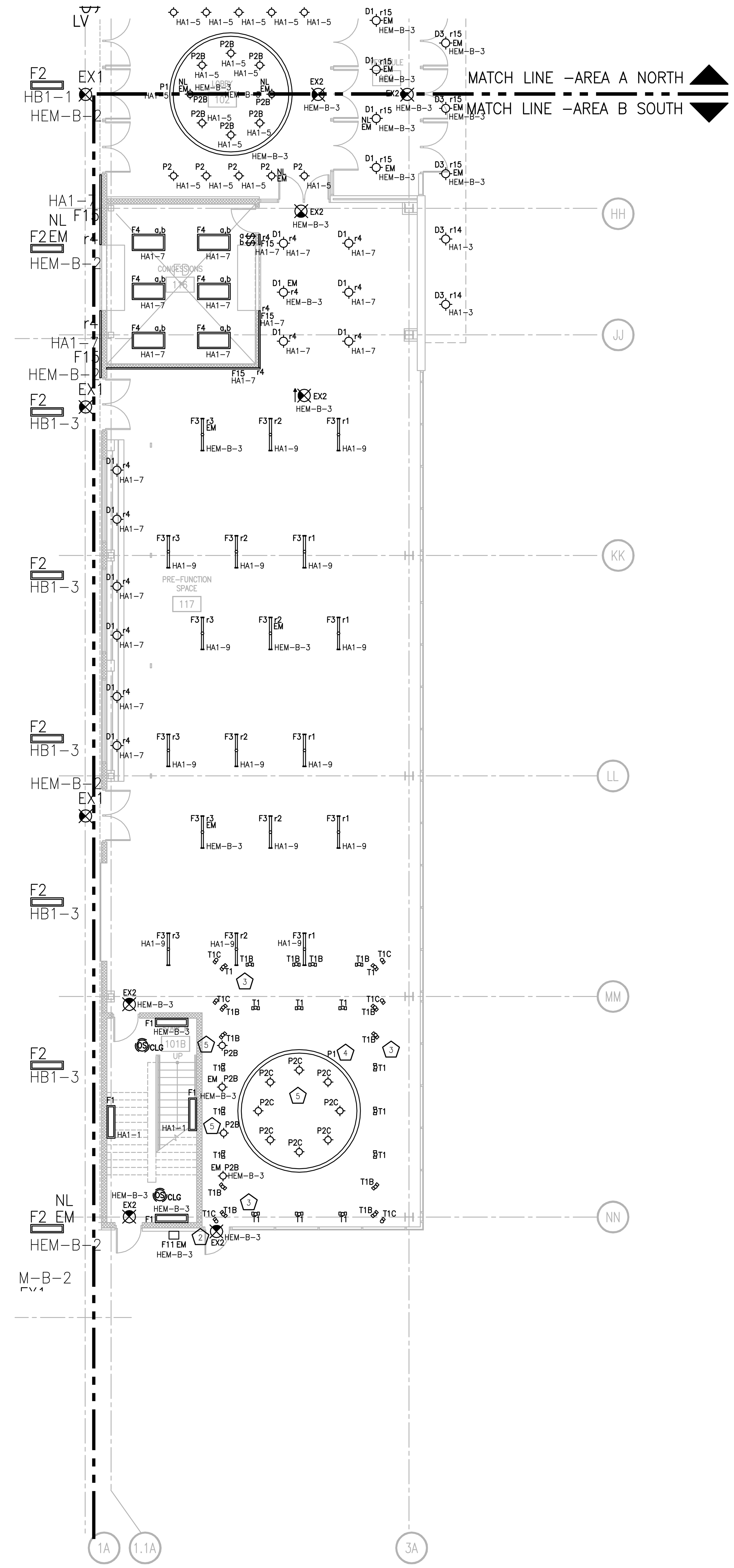
SHEET NO.

E002

MICHAEL LIBBY 2013-7-29 6:28 PM K:_2013\2013027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALL\DRAWINGS\2013027_02-E002.DWG



1 EL201A FIRST FLOOR LIGHTING PLAN – AREA A NORTH
SCALE: 1/8" = 1'-0"



2 EL201A FIRST FLOOR LIGHTING PLAN – AREA A SOUTH
SCALE: 1/8" = 1'-0"

#	PLAN – SPECIFIC NOTES
1	MOUNT FIXTURES VERTICALLY IN ELEVATOR PIT. CIRCUIT LIGHT FIXTURES TO ELEV–1 PANEL LOCATED IN ROOM 109.
2	EXIT SIGN TO BE WALL MOUNTED.
3	FIXTURES T1, T1B AND T1C IN SOUTH HALF OF RM 117 ARE ON RELAY 6. FIXTURES ARE BEING FED FROM PANEL HA1 CIRCUIT 11.
4	FIXTURE P1 IS ON RELAY 7 IN SOUTH HALF OF RM 117. FIXTURE IS BEING FED FROM PANEL HA1 CIRCUIT 11.
5	FIXTURES P2B AND P2C IN SOUTH HALF OF RM 117 ARE ON RELAY 5. FIXTURES ARE BEING FED FROM PANEL HA1 CIRCUIT 11.
6	FIXTURE P1 LOCATED IN THE LOBBY IS ON RELAY 11.
7	FIXTURES P2 AND P2B LOCATED IN THE LOBBY AND CORRIDOR ARE ON RELAY 10.
8	LOW VOLTAGE SWITCH STATION FOR CONTROL IN PREFUNCTION SPACES. SEE SHEET E505 FOR LIGHTING SCHEDULES. SEE SHEET E401 FOR DETAILS 5 AND 8.

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

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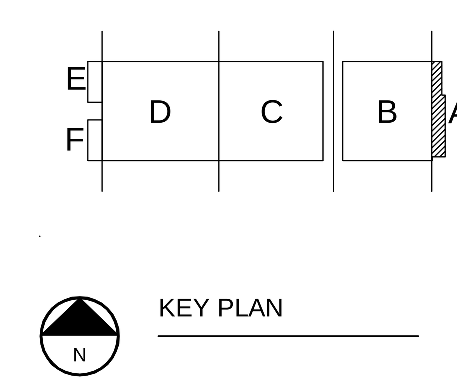
MADISON, WI 53713



KEY PLAN

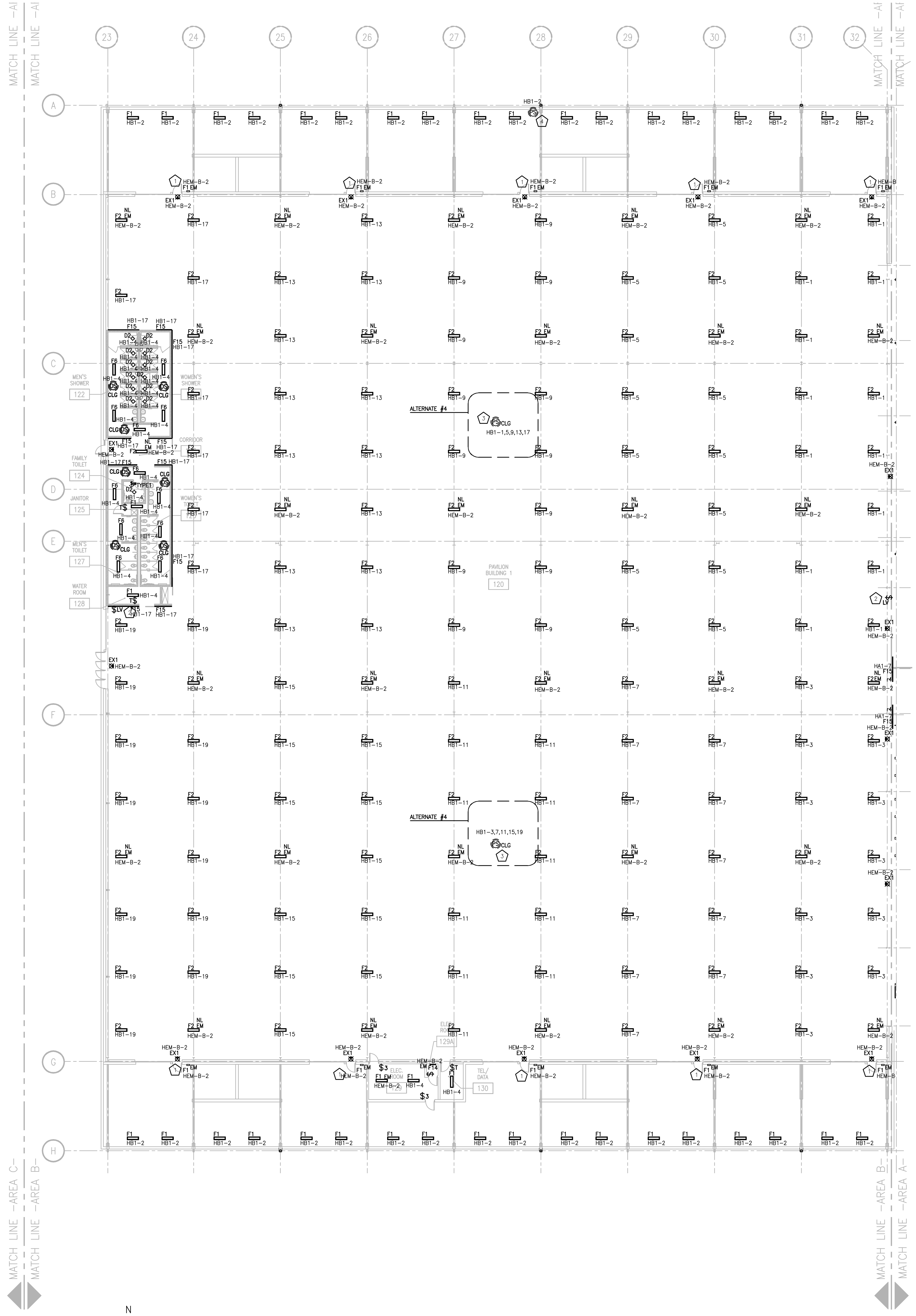
SHEET TITLE

FIRST FLOOR LIGHTING PLAN AREA A BUILDING 1

SHEET NO.

EL201A

KATIE KLABACKA 2009-6-30 2:27 PM K:_2013\2013027 - ALLIANT ENERGY CENTER - LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALL\DRAWINGS\2013027_02-EL201A.DWG



1 EL201B FIRST FLOOR LIGHTING PLAN – AREA B
SCALE: 1/16"= 1'-0"

	GENERAL PLAN NOTES
1	ALL TYPE F2 FIXTURES IN PAVILION SHALL BE CONTROLLED WITH (2) LOW VOLTAGE RELAYS FOR MULTI-LEVEL SWITCHING.
2	ALL TYPE F2 FIXTURES TO BE SURFACE MOUNTED TO UNISTRUT. SEE SHEET E401 FOR DETAIL.
3	2 LAMPS ON EMERGENCY FOR F2 FIXTURES.
4	ALTERNATE #4: DEDUCT ALTERNATE – DAYLIGHT SENSORS AND CONTROL SYSTEM.

#	PLAN – SPECIFIC NOTES
1	FIXTURE WILL BE MOUNTED VERTICALLY BOTTOM OF FIXTURE 1'–0" ABOVE CONCRETE. SEE ARCHITECTURAL A400 SERIES DRAWINGS FOR LOCATION.
2	LOW VOLTAGE SWITCH STATION FOR CONTROL OF TYPE F2 FIXTURES IN PAVILION. SEE SHEET E505 FOR LIGHTING SCHEDULES. SEE SHEET E401 FOR DETAILS 5 AND 8.
3	INDICATES LIGHTING CIRCUITS CONTROLLED BY RESPECTIVE DAYLIGHT SENSOR.
4	DAYLIGHT SENSOR TO BE MOUNTED ON ROOF.

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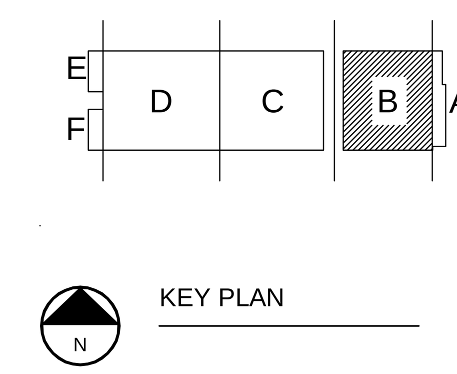

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

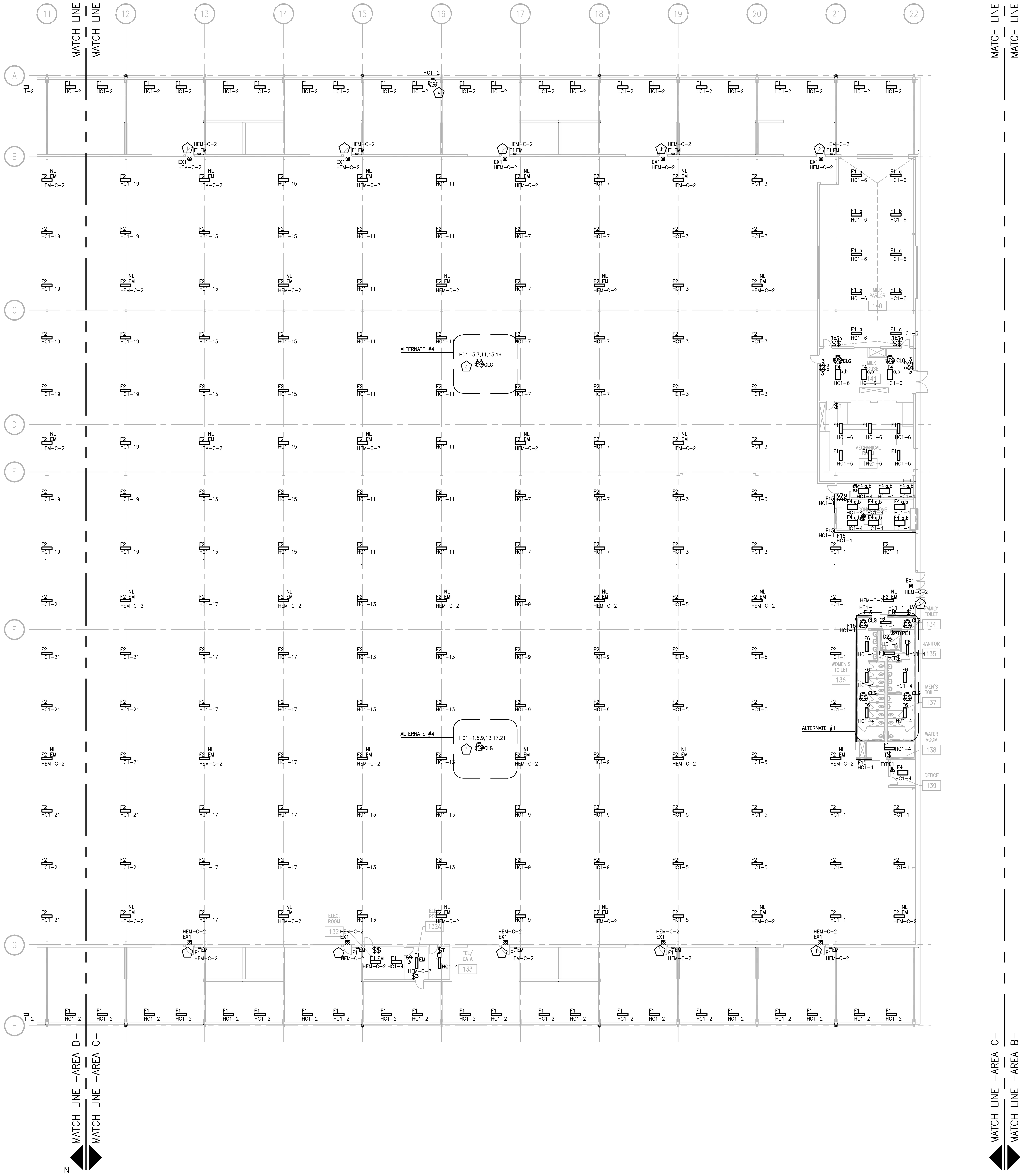
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

FIRST FLOOR LIGHTING PLAN AREA B - BUILDING 1

SHEET NO.

EL201B



FIRST FLOOR LIGHTING PLAN – AREA C

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

1 EL201C

	GENERAL PLAN NOTES
1	ALL TYPE F2 FIXTURES IN PAVILION SHALL BE CONTROLLED WITH (2) LOW VOLTAGE RELAYS FOR MULTI–LEVEL SWITCHING.
2	ALL TYPE F2 FIXTURES TO BE SURFACE MOUNTED TO UNISTRUT. SEE SHEET E401 FOR DETAIL.
3	2 LAMPS ON EMERGENCY FOR F2 FIXTURES.
4	ALTERNATE #1: ADD ALTERNATE – INTERIOR BUILD OUT OF FAMILY TOILET 134, JANITOR 135, WOMEN'S TOILET 136, AND MEN'S TOILET 137 (FLOOR SLAB AND UNDER FLOOR SYSTEMS TO BE INCLUDED IN THE SCOPE OF THE WORK)
5	ALTERNATE #4: DEDUCT ALTERNATE – DAYLIGHT SENSORS AND CONTROL SYSTEM.

#	PLAN – SPECIFIC NOTES
1	FIXTURE WILL BE MOUNTED VERTICALLY BOTTOM OF FIXTURE 1'–0" ABOVE CONCRETE. SEE ARCHITECTURAL A400 SERIES DRAWINGS FOR LOCATION.
2	LOW VOLTAGE SWITCH STATION FOR CONTROL OF TYPE F2 FIXTURES IN PAVILION. SEE SHEET E505 FOR LIGHTING SCHEDULES. SEE SHEET E401 FOR DETAILS 5 AND 8.
3	INDICATES LIGHTING CIRCUITS CONTROLLED BY RESPECTIVE DAYLIGHT SENSOR.
4	DAYLIGHT SENSOR TO BE MOUNTED ON ROOF.

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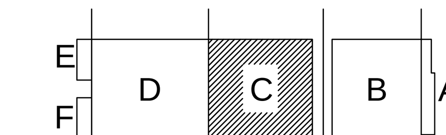

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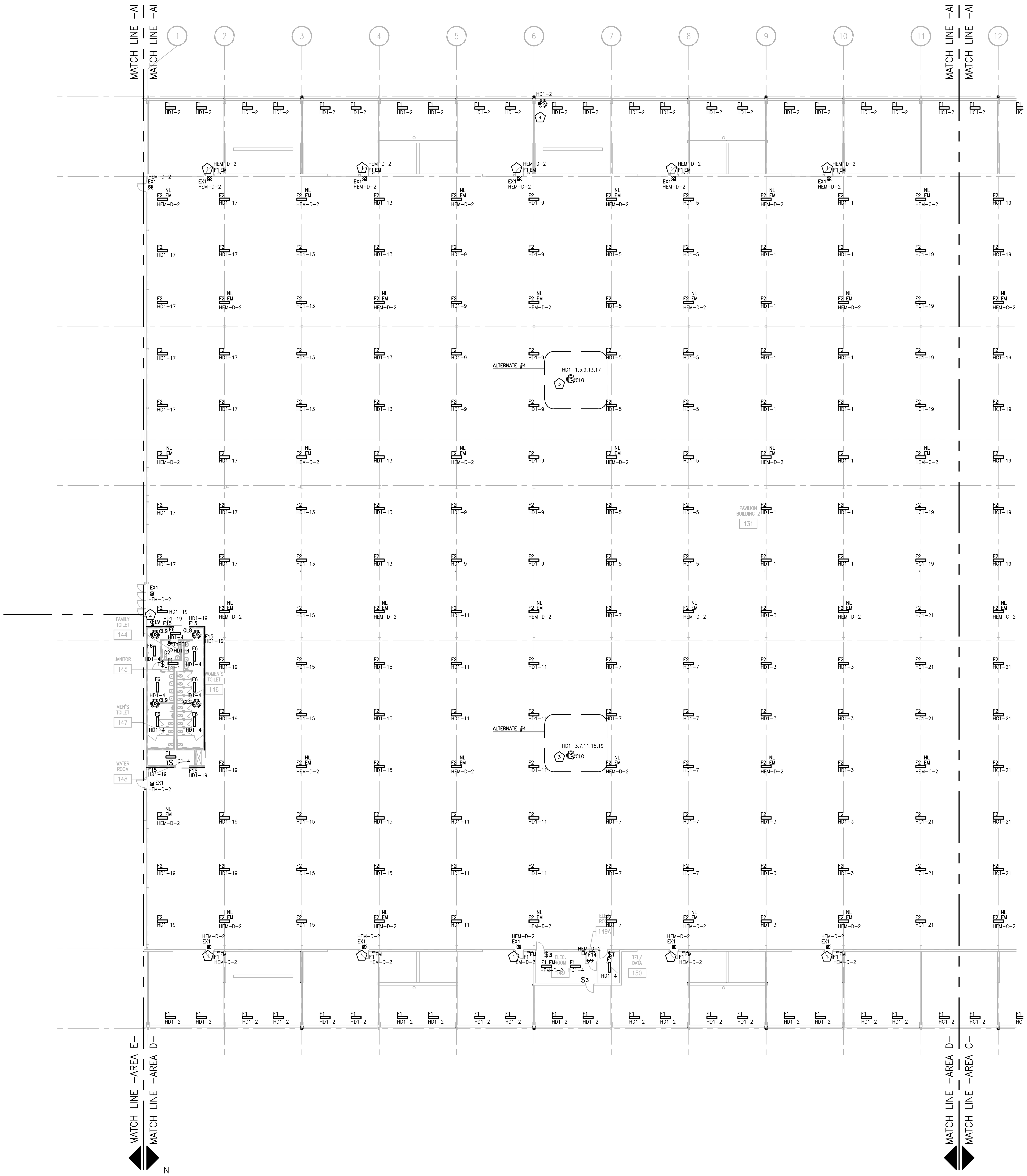
SHEET TITLE

FIRST FLOOR LIGHTING PLAN AREA C - BUILDING 2

SHEET NO.

EL201C

KATIE KLABACKA 2009-6-30 2:27 PM K:_2013\2013027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALL\DRAWINGS\2013027_02-EL201C.DWG



FIRST FLOOR LIGHTING PLAN – AREA D
SCALE: 1/16" = 1'-0"

	GENERAL PLAN NOTES
1	ALL TYPE F2 FIXTURES IN PAVILION SHALL BE CONTROLLED WITH (2) LOW VOLTAGE RELAYS FOR MULTI–LEVEL SWITCHING.
2	ALL TYPE F2 FIXTURES TO BE SURFACE MOUNTED TO UNISTRUT. SEE SHEET E401 FOR DETAIL.
3	2 LAMPS ON EMERGENCY FOR F2 FIXTURES.
4	ALTERNATE #4: DEDUCT ALTERNATE – DAYLIGHT SENSORS AND CONTROL SYSTEM.

#	PLAN – SPECIFIC NOTES
1	FIXTURE WILL BE MOUNTED VERTICALLY BOTTOM OF FIXTURE 1'–0" ABOVE CONCRETE. SEE ARCHITECTURAL A400 SERIES DRAWINGS FOR LOCATION.
2	LOW VOLTAGE SWITCH STATION FOR CONTROL OF TYPE F2 FIXTURES IN PAVILION. SEE SHEET E505 FOR LIGHTING SCHEDULES. SEE SHEET E401 FOR DETAILS 5 AND 8.
3	INDICATES LIGHTING CIRCUITS CONTROLLED BY RESPECTIVE DAYLIGHT SENSOR.
4	DAYLIGHT SENSOR TO BE MOUNTED ON ROOF.

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BID # 313072

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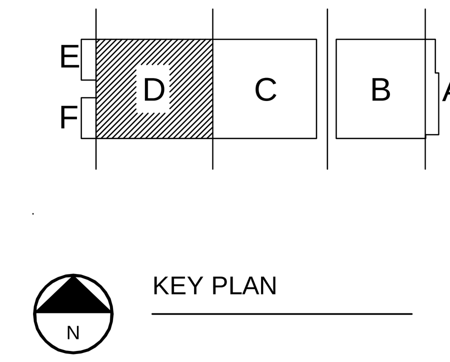


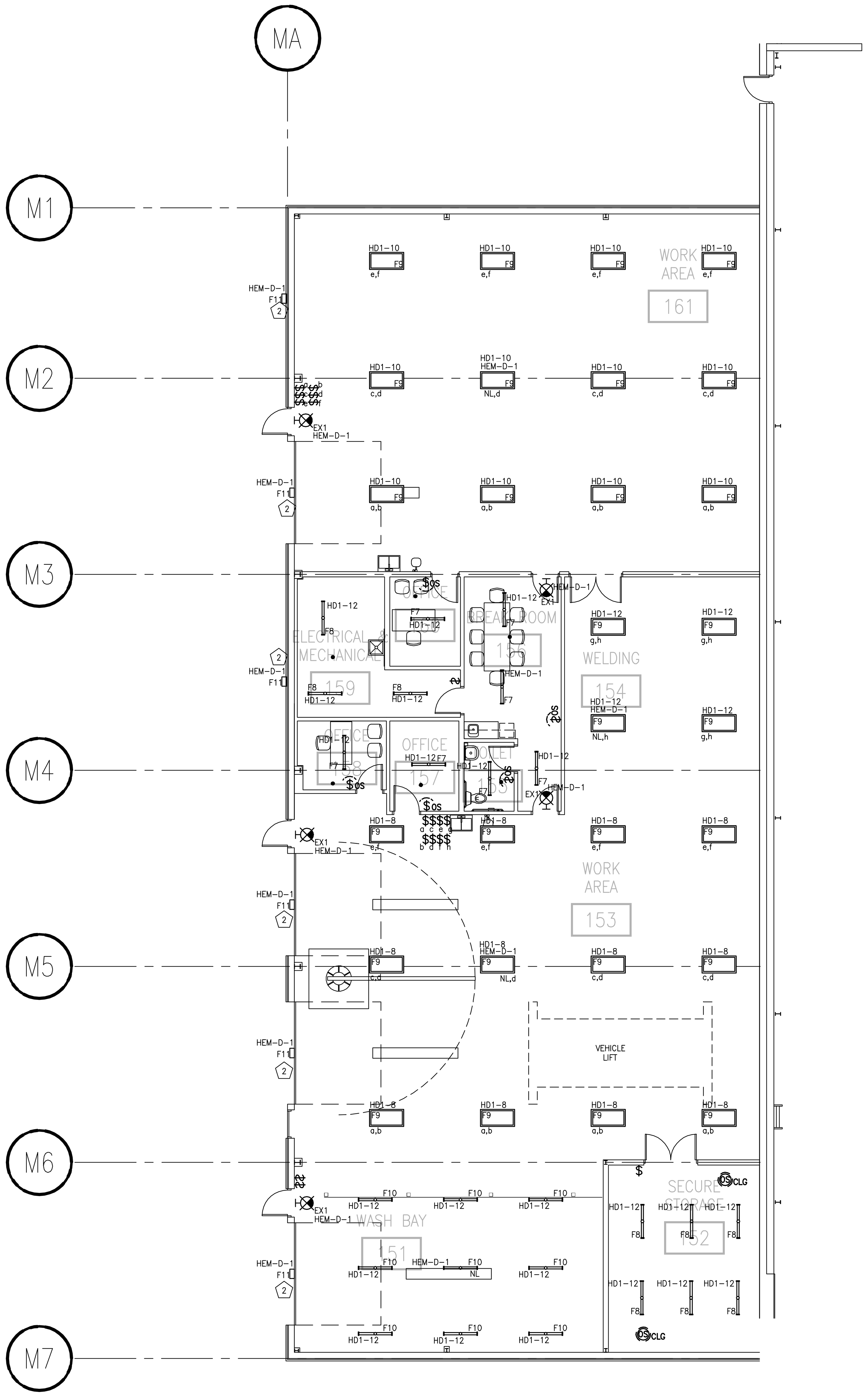
KEY PLAN

SHEET TITLE

FIRST FLOOR LIGHTING PLAN
AREA D - BUILDING 2

SHEET NO.

EL201D



1 EL201E FIRST FLOOR LIGHTING PLAN – AREA E
SCALE: 1/8"= 1'-0"

BUILDING E GENERAL NOTES

1	ALTERNATE BID 5: DELETE ALL WORK IN BUILDING 'E' EXCEPT: –INSTALLATION OF PANEL LE AND TRANSFORMER TE –FIRE ALARM INITIATION AND NOTIFICATION DEVICES IN 161,154,153,151 AND ABOVE INTERIOR ROOMS (NOT WITHIN INTERIOR ROOMS –EXTERIOR LIGHTING –EXIT SIGNS AND FIXTURES IN 161,154,153,151 CIRCUITED TO PANEL HEM.

BUILDING E SPECIFIC LIGHTING/POWER/SYSTEMS NOTES

#	PLAN NOTE
1	ROUTE 3/4" CONDUIT FROM OS–1 ALARM ON WALL TO OS–1 PIT UNDER SLAB. COORDINATE LOCATIONS AND ADDITIONAL REQUIREMENTS WITH PLUMBING CONTRACTOR.
2	EXTERIOR WALL MOUNT SO JUNCTION BOX IS CENTERED 1' ABOVE OH DOOR.
3	COORDINATE HEIGHT AND TYPE OF DOOR OPERATOR POWER CONNECTION WITH DOOR OPERATOR SUPPLIER. PROVIDE BACKBOX AT 42" AFF FOR OH DOOR CONTROL BUTTON STATION BY OTHERS. COORDINATE BOX SIZE WITH DOOR OPERATOR SUPPLIER. ROUTE 1/2" CONDUIT TO LOCATION OF DOOR OPERATOR. COORDINATE LOCATION WITH DOOR OPERATOR SUPPLIER. PROVIDE DISCONNECTING MEANS, COORDINATE WITH GC.
4	PROVIDE 12GA CORD PENDANT (NOT A CORD REEL) FOR 208V AND 120V RECEPTACLE FROM CEILING IN THIS LOCATION. PENDANT BOX SHALL HAVE A DUPLEX 120V RECEPTACLE ON ONE SIDE AND A SIMPLEX 208V RECEPTACLE ON THE OTHER SIDE COORDINATE DEVICE TYPE WITH THAT SHOWN ON DRAWINGS. HANG PENDANT DOWN TO 6'–5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
5	PROVIDE CEILING OR BEAM MOUNTED RECEPTACLE FOR CORD REELS AS SHOWN. ADJUST REEL STOP SO CORDS HANG AT 7' AFF. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
6	PROVIDE FIXED 10GA CORD PENDANT FOR 208V PENDANT CORD/PLUG FROM CEILING IN THIS LOCATION. HANG PENDANT DOWN TO 6'–5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
7	COORDINATE REQUIRED DISCONNECT LOCATION WITH AHJ. IF ALLOWED, THE PREFERRED OPTION IS TO LOCATE DISCONNECT ADJACENT TO OR ON UNIT SERVED. HOWEVER, IF THE AHJ'S INTERPRETATION OF 'READILY ACCESSIBLE' REQUIRES THAT THE DISCONNECT BE LOCATED WITHIN REACH OF THE FLOOR, LOCATE DISCONNECT ON THE NEAREST WALL.
8	CEILING MOUNT OR WALL MOUNTED WITHIN 12" OF CEILING.
9	4'X8'T UL LISTED FIRE RATED PLYWOOD PANEL AND 12 SPACE WALL MOUNTED RACK. PROVIDE PATCH PANELS AND WIRE MANGEMENT AS REQURIED IN SPECIFICATIONS AND ON E402 TELECOMMUNICATIONS RISER DIAGRAM.
10	PADLOCKABLE NON FUSED DISCONNECT WIRED AHEAD OF PANEL B TO ALLOW LOCKOUT OF ENTIRE PANEL B POWER.
11	PROVIDE ELECTRICALLY HELD 3–POLE CONTACTOR IN OR ADJACENT TO PANEL B. CONTACTOR SHALL BE WIRED TO SWITCH IN OFFICE 110. CONTACTOR SHALL HAVE NO EXTERNAL CONTROLS OR OVERRIDE AND SHALL BE PROVIDED WITH A PADLOCKABLE COVER. IF A CONTACTOR INTEGRAL TO THE PANEL IS PROVIDED, THE PANEL COVER SHALL BE PADLOCKABLE.
12	PROVIDE FIXED 12GA CORD PENDANT FOR RECEPTACLE FROM CEILING IN THIS LOCATION. HANG RECEPTACLE DOWN TO 6'–5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. PROVIDE DEVICE AS SHOWN ON DRAWINGS. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
13	LOCATED ON MAIN SPACE CEILING, ABOVE ROOM.
14	LOCATE WITHIN 3' OF CEILING PEAK.

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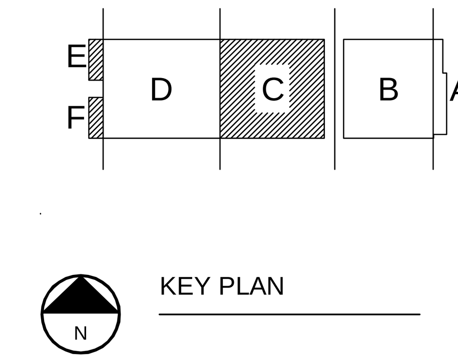

KEY PLAN

SHEET TITLE

FIRST FLOOR LIGHTING PLAN AREA E - BUILDING 2

SHEET NO.

EL201E

	GENERAL PLAN NOTES
1	ALTERNATE #3: ADD ALTERNATE – AREA F

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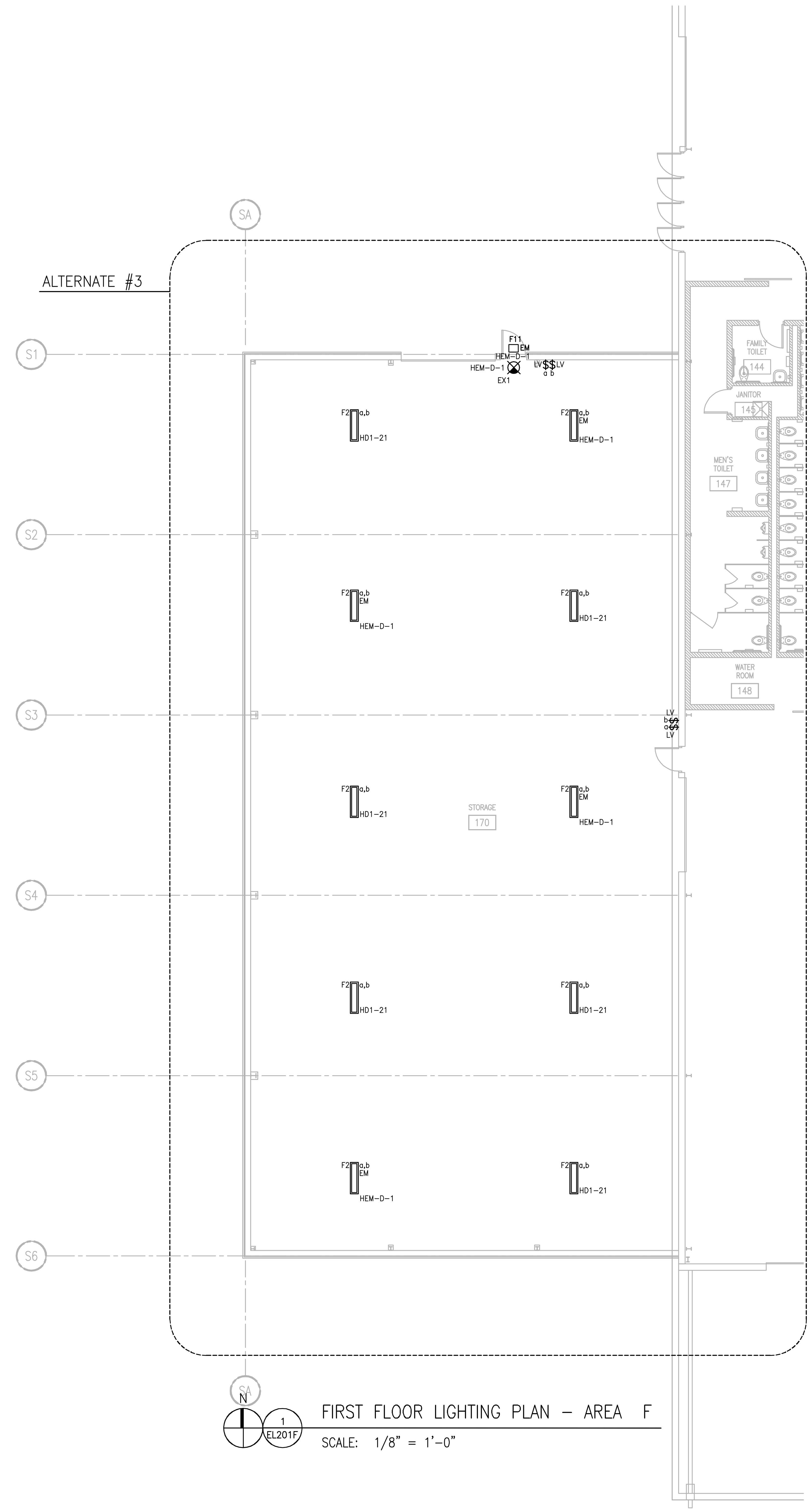

FIRST FLOOR LIGHTING PLAN – AREA F

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

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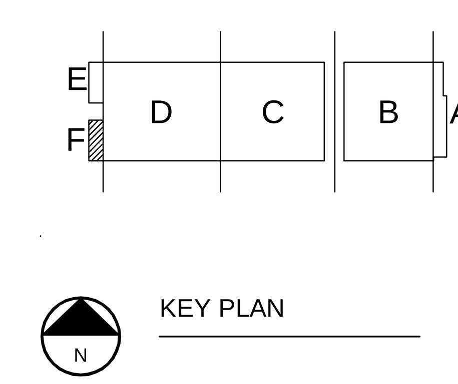

KEY PLAN

SHEET TITLE

FIRST FLOOR LIGHTING PLAN AREA F

SHEET NO.

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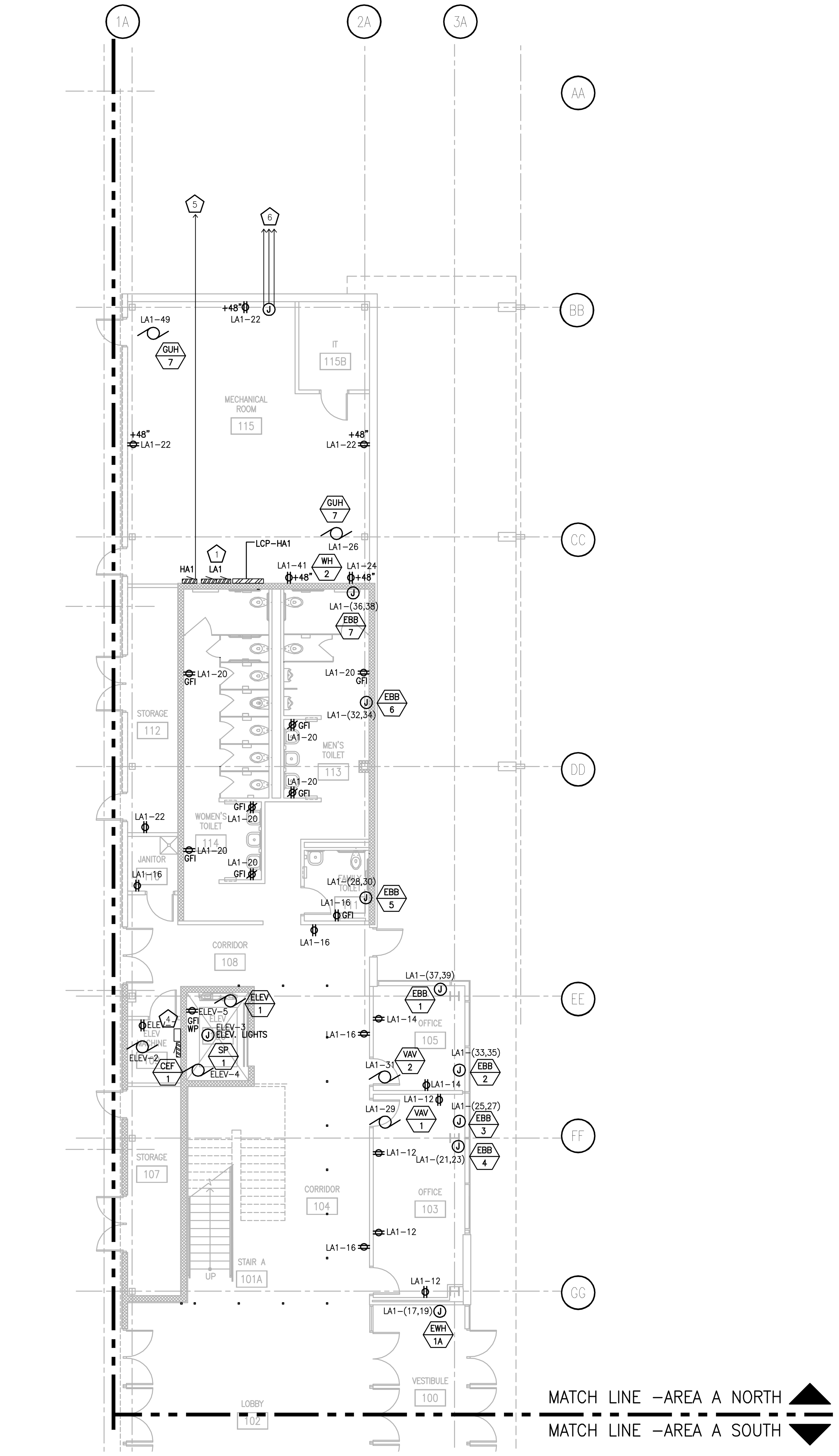
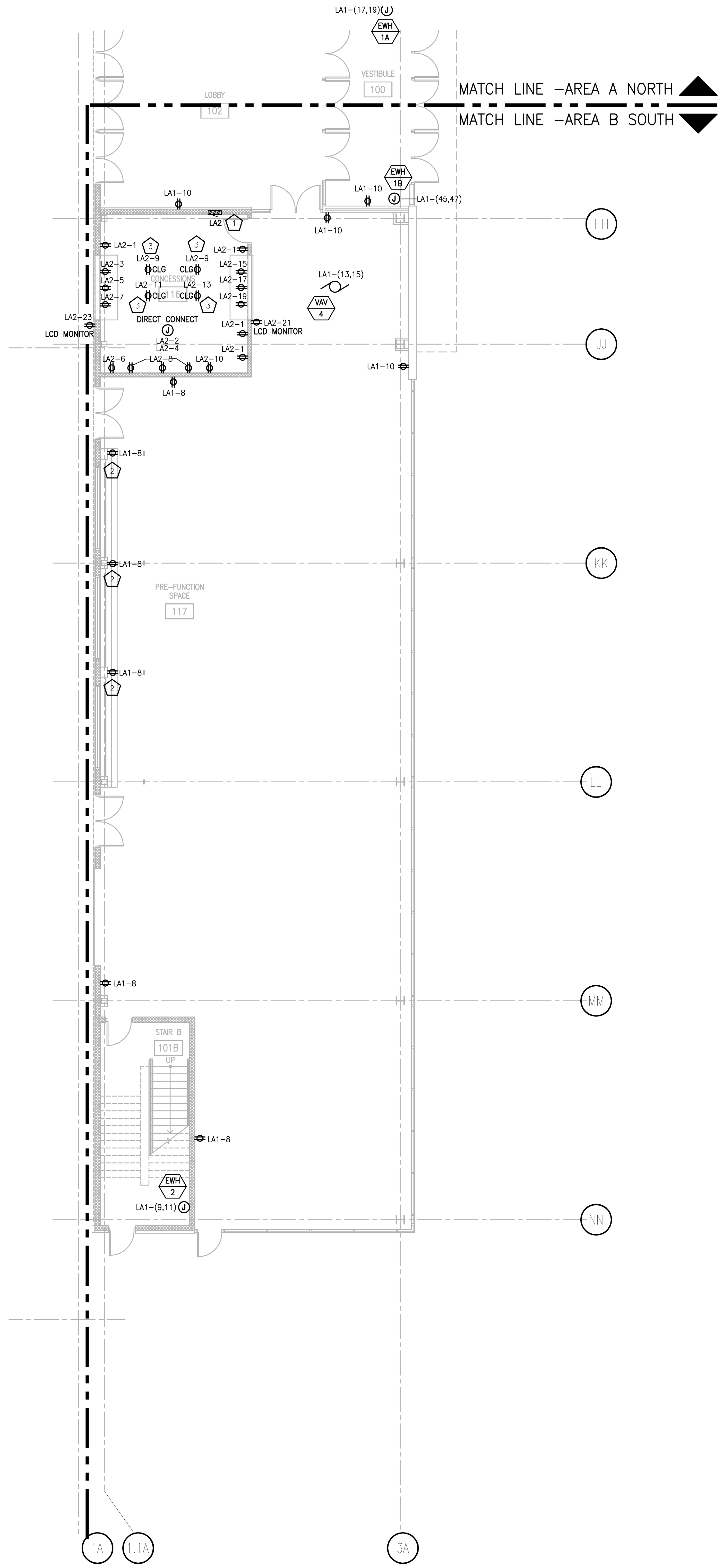


1 EP201A FIRST FLOOR POWER PLAN - AREA A NORTH

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



2 EP201A FIRST FLOOR POWER PLAN - AREA A SOUTH

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

	GENERAL PLAN NOTES
1	ALL RECEPTACLES IN CONCESSIONS RM 116 SHALL BE GFI TYPE.

#	PLAN - SPECIFIC NOTES
1	TRANSFORMER MOUNTED ABOVE PANELBOARD. SEE SHEET E601 FOR TRANSFORMER SIZE.
2	RECEPTACLE COLOR SHOULD COORDINATE WITH COLUMN "GREY".
3	PROVIDE TWIST-LOCK RECEPTACLE CEILING MOUNTED.
4	ELEVATOR POWER MODULE, SEE ONE-LINE DIAGRAM.
5	PROVIDE 200AMP FEEDER TO POWER POLE SERVING CAMPER AREA, INCLUDE VERTICAL RISER ON POLE WITH WEATHER PROOF HEAD NEAR TOP OF POLE. VERIFY LOCATION ON SITE AND VERIFY INSTALLATION REQUIREMENTS WITH OWNER.
6	PROVIDE (3) 4" PVC RACEWAYS TO NEW PULL BOX THAT REPLACES EXISTING PULL BOX BEING RELOCATED BECAUSE OF CANOPY SUPPORT BEAM.

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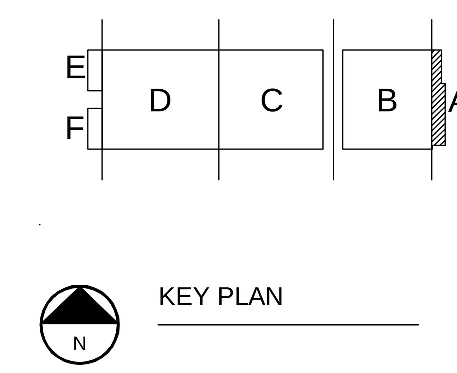
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



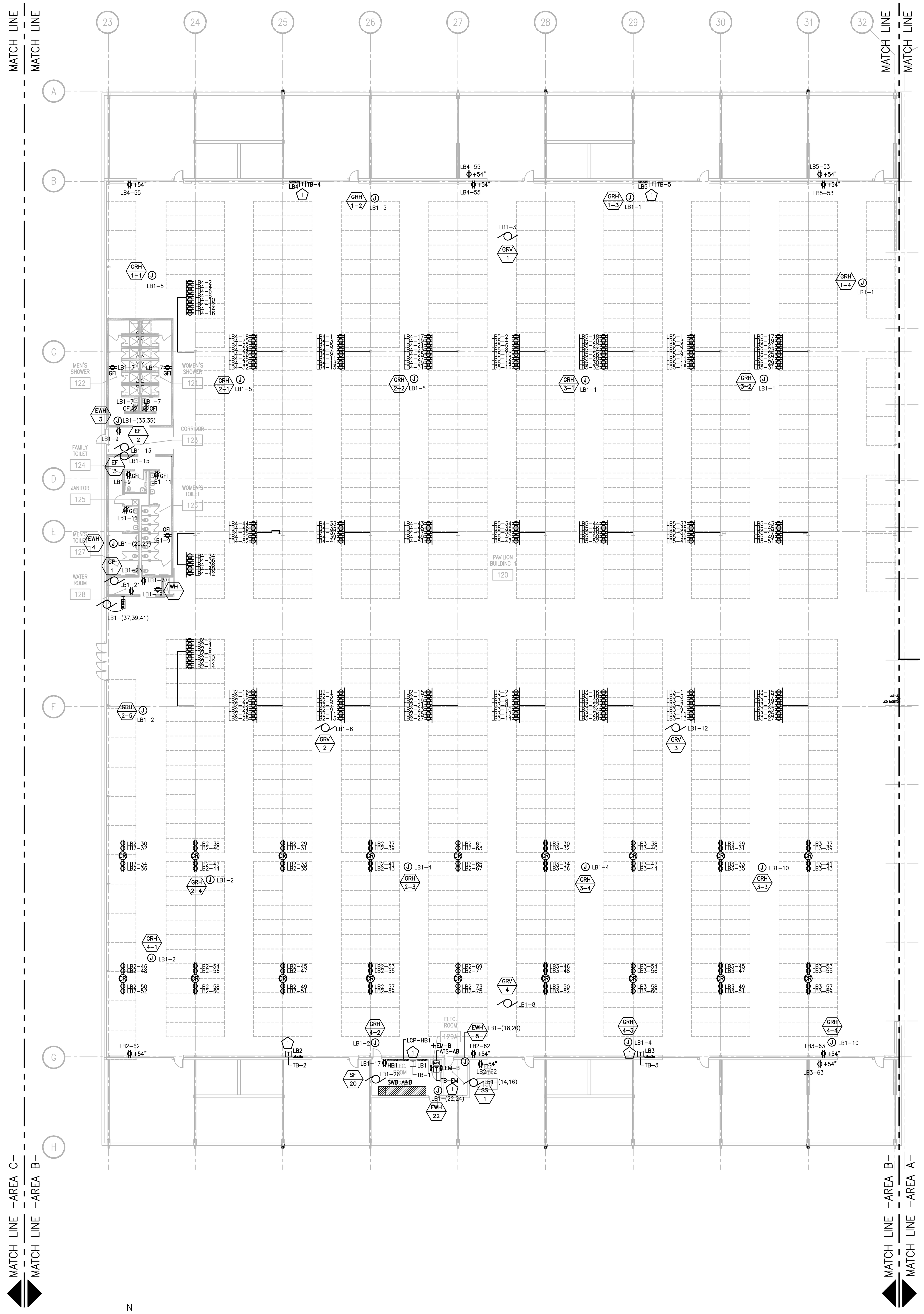
KEY PLAN

SHEET TITLE

FIRST FLOOR
POWER PLAN
AREA A BUILDING 1

SHEET NO.

EP201A



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

1	GENERAL PLAN NOTES
1	ALL RECEPTACLES IN THE PAVILION BUILDING SHALL BE GFI AND WATER PROOF.

#	PLAN - SPECIFIC NOTES
1	TRANSFORMER MOUNTED ABOVE PANELBOARD. SEE SHEET E601 FOR TRANSFORMER SIZE.

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

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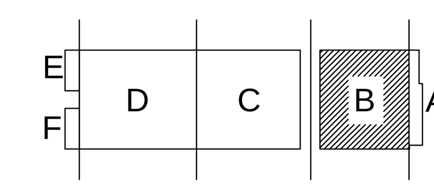
MADISON, WI 53713



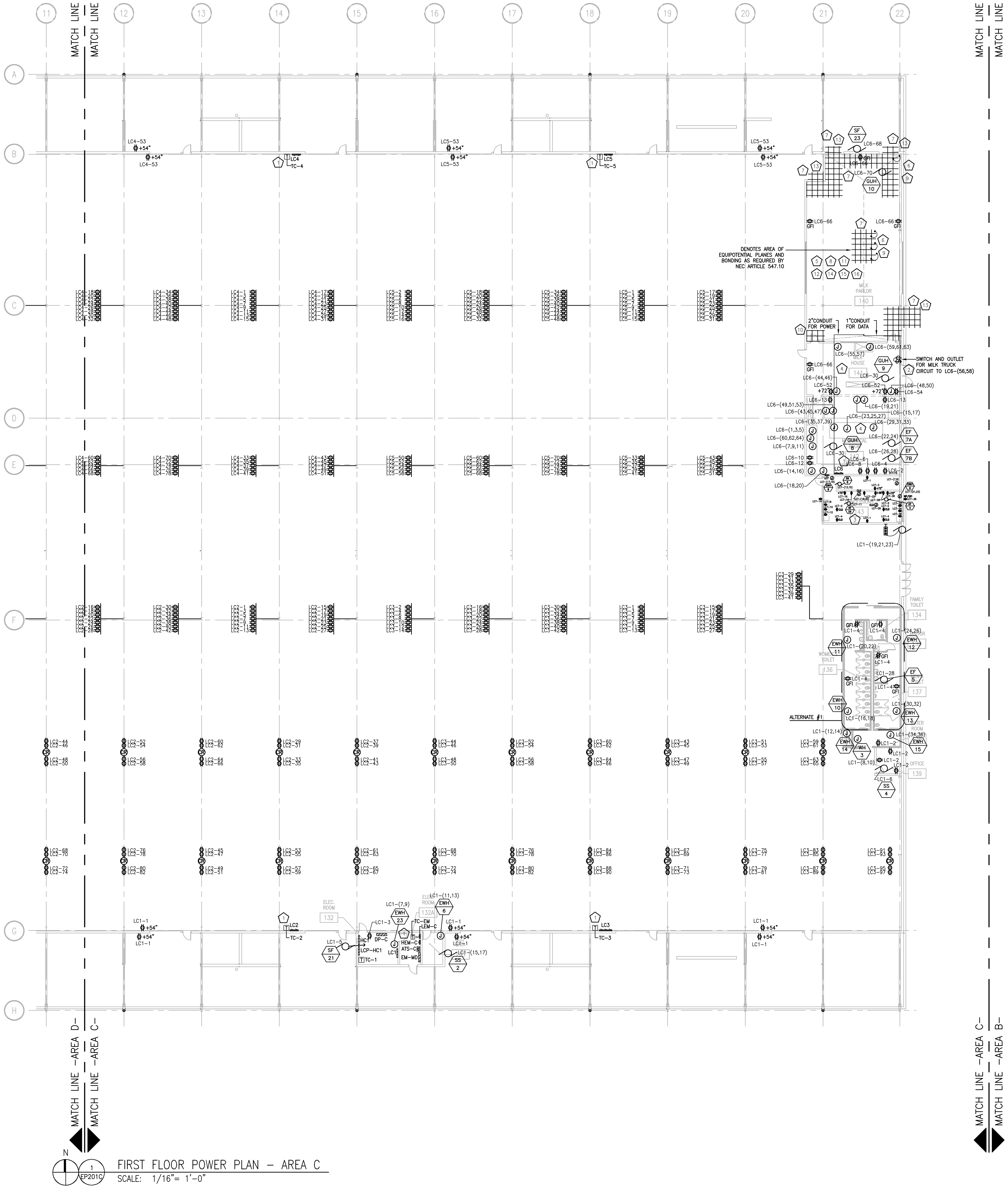
KEY PLAN

SHEET TITLE

FIRST FLOOR POWER PLAN
AREA B - BUILDING 1

SHEET NO.

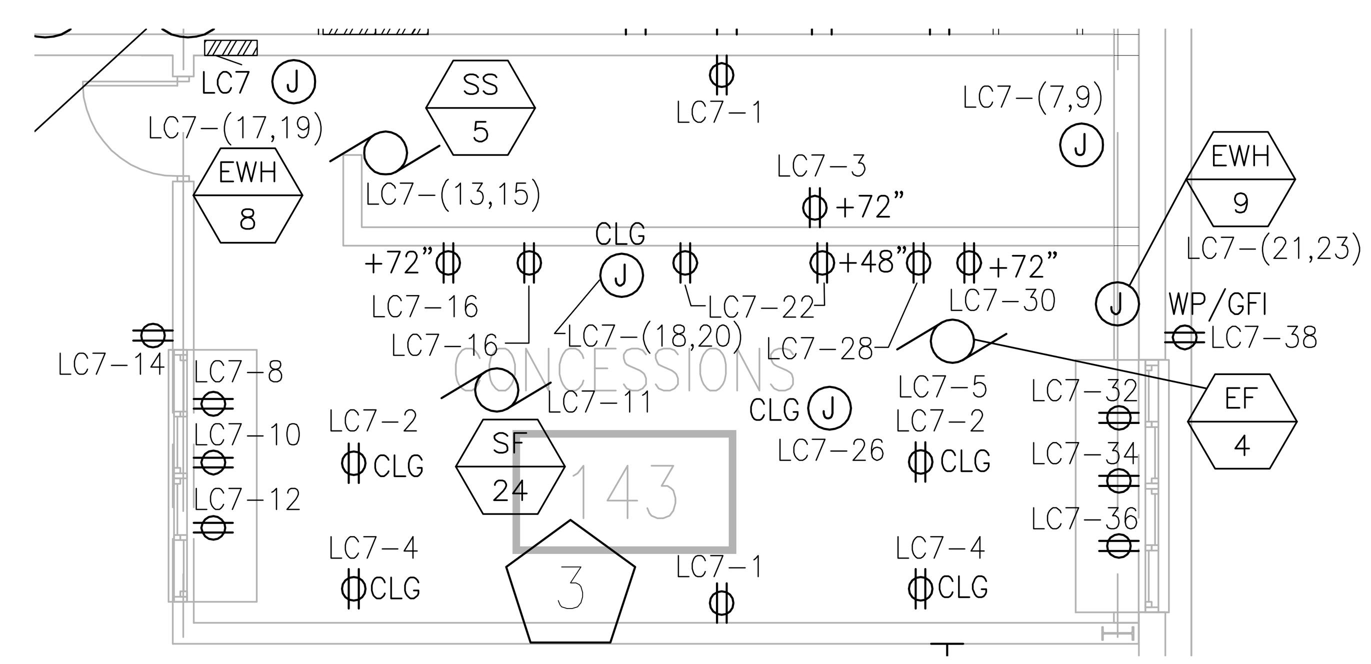
EP201B



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

	GENERAL PLAN NOTES
1	ALL RECEPTACLES IN PAVILION BUILDINGS SHALL BE GFI AND WATERPROOF.
2	ALL RECEPTACLES IN CONCESSIONS RM 143 TO BE GFI TYPE.
3	ALTERNATE #1: ADD ALTERNATE – INTERIOR BUILD OUT OF FAMILY TOILET 134, JANITOR 135, WOMEN'S TOILET 136, AND MEN'S TOILET 137 (FLOOR SLAB AND UNDER FLOOR SYSTEMS TO BE INCLUDED IN THE SCOPE OF THE WORK)

#	PLAN – SPECIFIC NOTES
1	TRANSFORMER MOUNTED ABOVE PANELBOARD. SEE SHEET E601 FOR TRANSFORMER SIZE.
2	PROVIDE A NEMA 12, 4 WIRE WITH BOTH NEUTRAL AND GROUND RECEPTACLE.
3	SEE ¼" SCALE DRAWING ON THIS SHEET.
4	PROVIDE DISCONNECTS FOR HARDWIRED EQUIPMENT IN MECHANICAL ROOM 142 AND MILKING HOUSE 141.
5	COMPLETE INSTALLATION OF A EQUIPOTENTIAL PLANE (EQP) SYSTEM MUST BE PROVIDED AS REQUIRED BY NEC ARTICLE 547.
6	EQP SYSTEM MUST BE INSTALLED COMPLETELY WITH ALL CONDUCTIVE OBJECTS ON OR NEAR THE EQP BONDED TO THE WIRE MESH INSTALLED IN THE SLAB. THIS INCLUDES BUT IS NOT LIMITED TO: STANCHIONS, STALL PARTITIONS, METAL POSTS OR COLUMNS, WATER LINES, METALLIC WATERERS AND FEEDERS, STAINLESS STEEL MILK PIPELINES, GROUNDED METAL BUILDING FRAME.
7	WELDED STEEL MESH INSTALLED IN MILKING PARLOR FLOOR SLAB AND REINFORCING RODS INSTALLED IN THE FOUR VOLTAGE RAMPS WILL BE PROVIDED BY G.E. BUT ALL GROUND/BOND WIRES WILL BE PROVIDED AND INSTALLED BY E.C.
8	WELDED STEEL MESH SHALL BE 6"X6" NOT SMALLER THAN NO.10 GAUGE AND REINFORCING RODS SHALL BE MIN. #3 GAUGE.
9	BONDING CONDUCTORS SHALL BE NOT SMALLER THAN NO.8 AWG COPPER.
10	THE EQP SHALL BE BONDED TO THE FACILITY SERVICE GROUNDING SYSTEM AT THE ELECTRIC SERVICE LOCATION WITH A MIN. AWG 2 COPPER GROUND CONDUCTOR INSTALLED IN PVC RACEWAY.
11	ALL BOND WIRES SHALL BE INSTALLED IN PVC RACEWAY WHERE CONDUCTOR EXTENDS INTO CONCRETE SLABS. THE BOND BETWEEN THE EQP AND THE BUILDING GROUND SYSTEM MUST BE EXPOSED (NOT BURIED IN CONCRETE OR EARTH) SO IT CAN BE INSPECTED.
12	THE EXPOSED BOND SHALL CONSIST OF BARE COPPER CONDUCTORS BONDED TO THE MESH AND LEFT PROTRUDING FROM THE CONCRETE AND THEN CONNECTED TO THE BUILDING GROUND SYSTEM TO PRODUCE A VISIBLE BOND. OTHER APPROVED METHODS WILL BE CONSIDERED.
13	INSTALL VOLTAGE RAMPS (TRANSITION AREA) WHERE LIVESTOCK ENTER AND EXIT THE EQP. G.C. SHALL PROVIDE #6, 10' REINFORCING RODS DRIVEN ON A 45° SLOPE INTO GROUND ON A 12" CENTER ALONG THE WIDTH OF THE TRANSITION AREA SO THAT A MINIMUM 48" SPACE OUTSIDE THE EQP AREA IS CREATED SO THAT A GRADUAL CHANGE IN VOLTAGE POTENTIAL IS ACHIEVED. GROUND RODS ARE THEN BONDED TO THE MESH BY WELDING.
14	BOND EQP TO STAINLESS STEEL MILKING SYSTEM/PIPING USING #8 AWG COPPER CONDUCTOR TO A STAINLESS STEEL HOSE CLAMP WITH A COPPER LUG.
15	SEE STRUCTURE DRAWING S201C FOR ADDITIONAL INFORMATION REGARDING EQP MESH AND REINFORCING RODS.
16	DETAILS ON DRAWING ARE TYPICAL SHOWING GENERAL INTENT AND ARE NOT INTENDED TO BE FIELD WIRING DIAGRAMS.



2 / EP201C
CONCESSIONS RM 143
SCALE: 1/4"= 1'-0"

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
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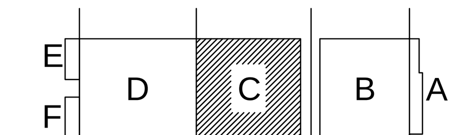


KEY PLAN

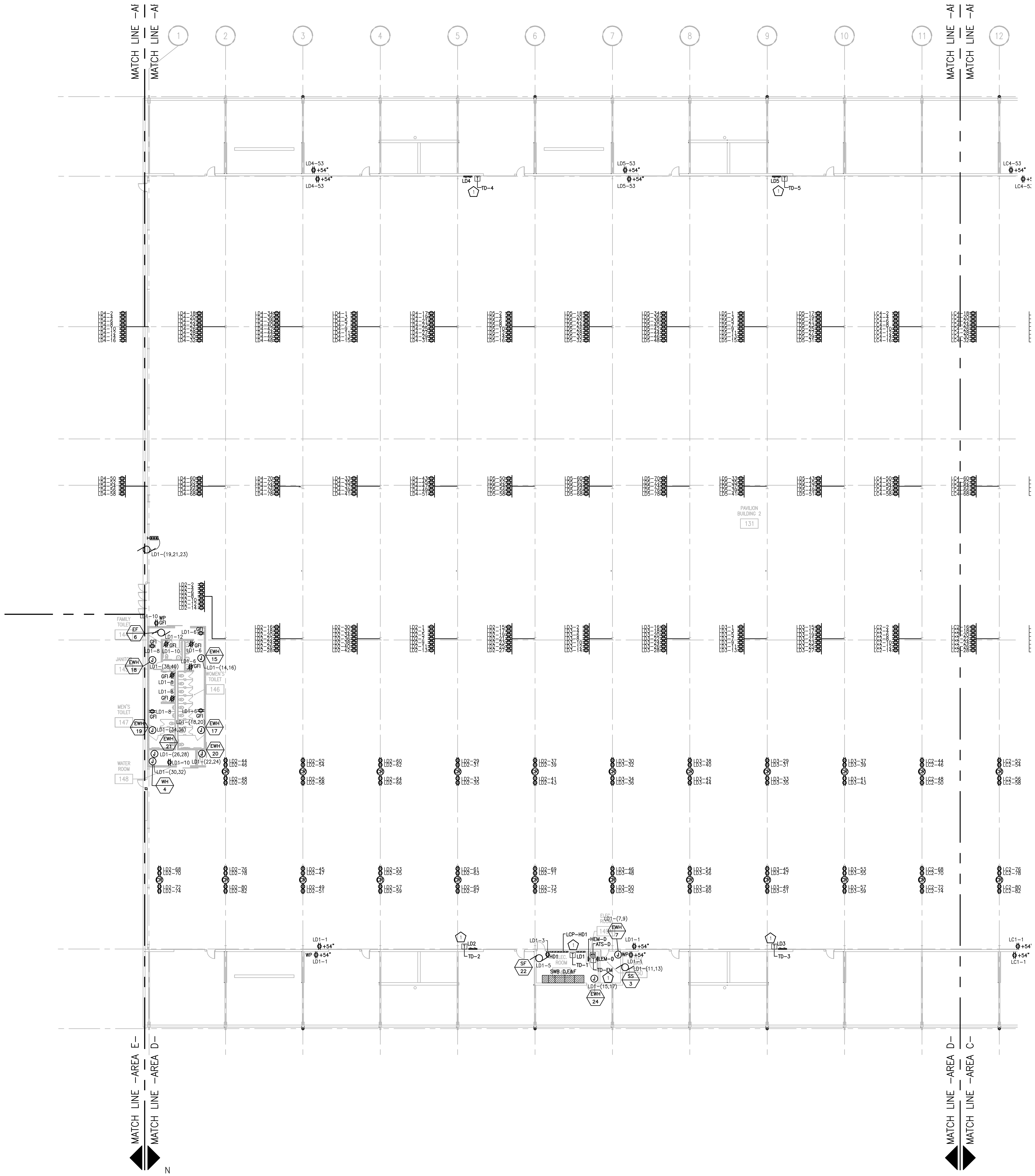
SHEET TITLE

FIRST FLOOR POWER PLAN AREA C - BUILDING 2

SHEET NO.

EP201C

KATIE KLABACKA 2009-6-30 2:27 PM K:_2013\2013027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALL\DRAWINGS\2013027_02-EP201C.DWG



FIRST FLOOR POWER PLAN – AREA D

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

1 EP201D

GENERAL PLAN NOTES

1	ALL RECEPTACLES IN PAVILION BUILDINGS SHALL BE GFI AND WATERPROOF.

PLAN – SPECIFIC NOTES

#	
1	TRANSFORMER MOUNTED ABOVE PANELBOARD. SEE SHEET E601 FOR TRANSFORMER SIZE.

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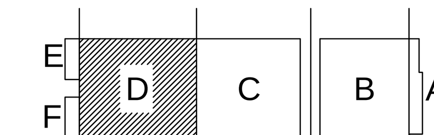
PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713



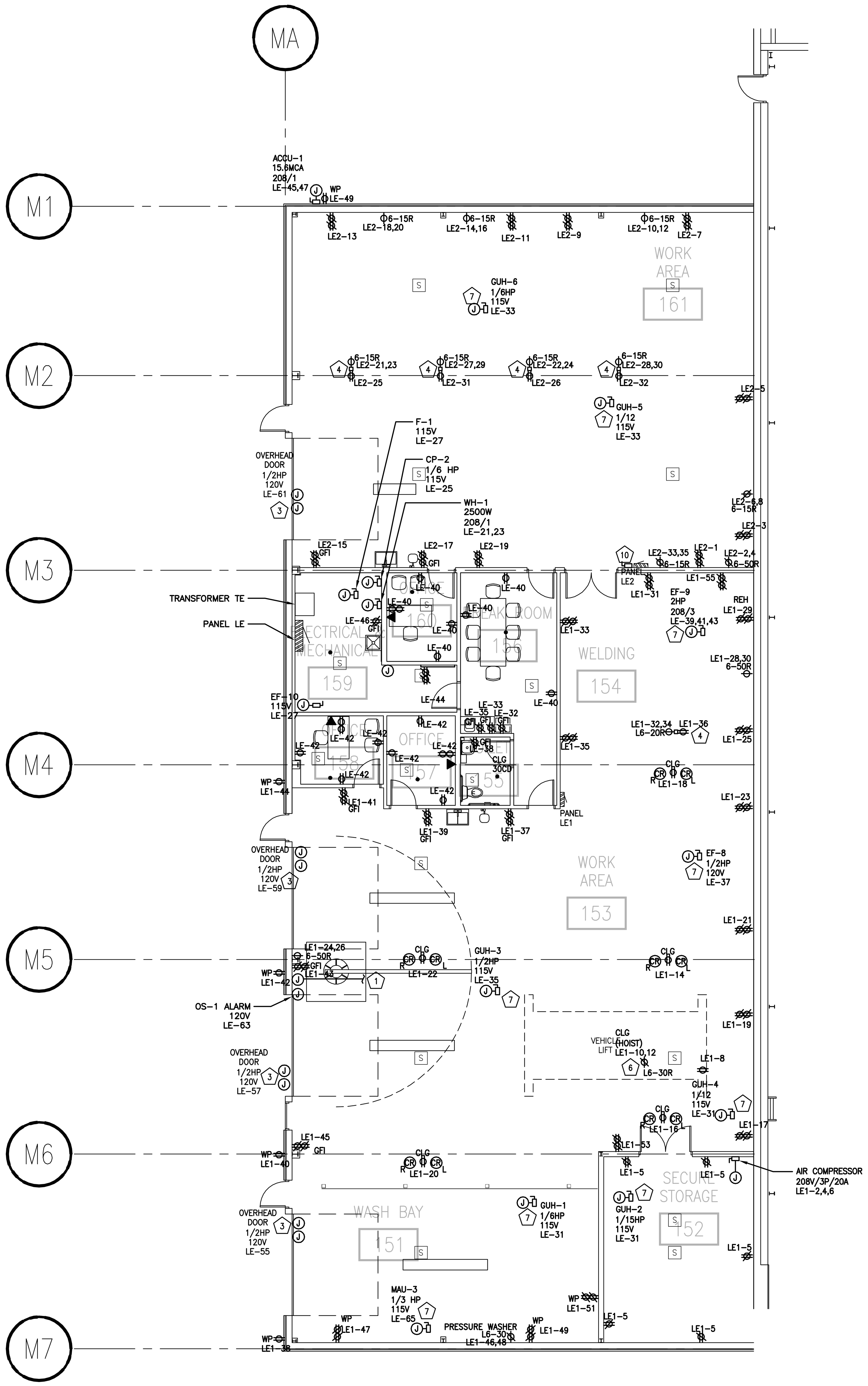
KEY PLAN

SHEET TITLE

FIRST FLOOR POWER PLAN AREA D - BUILDING 2

SHEET NO.

EP201D



BUILDING E GENERAL NOTES

1	ALTERNATE BID 5: DELETE ALL WORK IN BUILDING 'E' EXCEPT: –INSTALLATION OF PANEL LE AND TRANSFORMER TE –FIRE ALARM INITIATION AND NOTIFICATION DEVICES IN 161,154,153,151 AND ABOVE INTERIOR ROOMS (NOT WITHIN INTERIOR ROOMS –EXTERIOR LIGHTING –EXIT SIGNS AND FIXTURES IN 161,154,153,151 CIRCUITED TO PANEL HEM.

BUILDING E SPECIFIC LIGHTING/POWER/SYSTEMS NOTES

#	PLAN NOTE
1	ROUTE 3/4" CONDUIT FROM OS–1 ALARM ON WALL TO OS–1 PIT UNDER SLAB. COORDINATE LOCATIONS AND ADDITIONAL REQUIREMENTS WITH PLUMBING CONTRACTOR.
2	EXTERIOR WALL MOUNT SO JUNCTION BOX IS CENTERED 1' ABOVE OH DOOR.
3	COORDINATE HEIGHT AND TYPE OF DOOR OPERATOR POWER CONNECTION WITH DOOR OPERATOR SUPPLIER. PROVIDE BACKBOX AT 42" AFF FOR OH DOOR CONTROL BUTTON STATION BY OTHERS. COORDINATE BOX SIZE WITH DOOR OPERATOR SUPPLIER. ROUTE 1/2" CONDUIT TO LOCATION OF DOOR OPERATOR. COORDINATE LOCATION WITH DOOR OPERATOR SUPPLIER. PROVIDE DISCONNECTING MEANS, COORDINATE WITH GC.
4	PROVIDE 12GA CORD PENDANT (NOT A CORD REEL) FOR 208V AND 120V RECEPTACLE FROM CEILING IN THIS LOCATION. PENDANT BOX SHALL HAVE A DUPLEX 120V RECEPTACLE ON ONE SIDE AND A SIMPLEX 208V RECEPTACLE ON THE OTHER SIDE COORDINATE DEVICE TYPE WITH THAT SHOWN ON DRAWINGS. HANG PENDANT DOWN TO 6'–5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
5	PROVIDE CEILING OR BEAM MOUNTED RECEPTACLE FOR CORD REELS AS SHOWN. ADJUST REEL STOP SO CORDS HANG AT 7' AFF. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
6	PROVIDE FIXED 10GA CORD PENDANT FOR 208V PENDANT CORD/PLUG FROM CEILING IN THIS LOCATION. HANG PENDANT DOWN TO 6'–5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
7	COORDINATE REQUIRED DISCONNECT LOCATION WITH AHJ. IF ALLOWED, THE PREFERRED OPTION IS TO LOCATE DISCONNECT ADJACENT TO OR ON UNIT SERVED. HOWEVER, IF THE AHJ'S INTERPRETATION OF 'READILY ACCESSIBLE' REQUIRES THAT THE DISCONNECT BE LOCATED WITHIN REACH OF THE FLOOR, LOCATE DISCONNECT ON THE NEAREST WALL.
8	CEILING MOUNT OR WALL MOUNTED WITHIN 12" OF CEILING.
9	4'X8'T UL LISTED FIRE RATED PLYWOOD PANEL AND 12 SPACE WALL MOUNTED RACK. PROVIDE PATCH PANELS AND WIRE MANGEMENT AS REQURIED IN SPECIFICATIONS AND ON E402 TELECOMMUNICATIONS RISER DIAGRAM.
10	PADLOCKABLE NON FUSED DISCONNECT WIRED AHEAD OF PANEL B TO ALLOW LOCKOUT OF ENTIRE PANEL B POWER.
11	PROVIDE ELECTRICALLY HELD 3–POLE CONTACTOR IN OR ADJACENT TO PANEL B. CONTACTOR SHALL BE WIRED TO SWITCH IN OFFICE 110. CONTACTOR SHALL HAVE NO EXTERNAL CONTROLS OR OVERRIDE AND SHALL BE PROVIDED WITH A PADLOCKABLE COVER. IF A CONTACTOR INTEGRAL TO THE PANEL IS PROVIDED, THE PANEL COVER SHALL BE PADLOCKABLE.
12	PROVIDE FIXED 12GA CORD PENDANT FOR RECEPTACLE FROM CEILING IN THIS LOCATION. HANG RECEPTACLE DOWN TO 6'–5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. PROVIDE DEVICE AS SHOWN ON DRAWINGS. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
13	LOCATED ON MAIN SPACE CEILING, ABOVE ROOM.
14	LOCATE WITHIN 3' OF CEILING PEAK.

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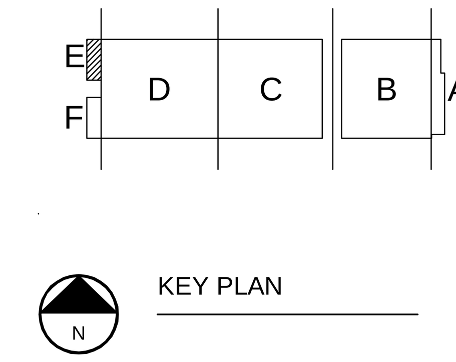

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

FIRST FLOOR POWER PLAN
AREA E - BUILDING 2

SHEET NO.

EP201E

	GENERAL PLAN NOTES
1	RECEPTACLES TO BE MOUNT AT 48" AFF.
2	ALTERNATE #3: ADD ALTERNATE – AREA F.

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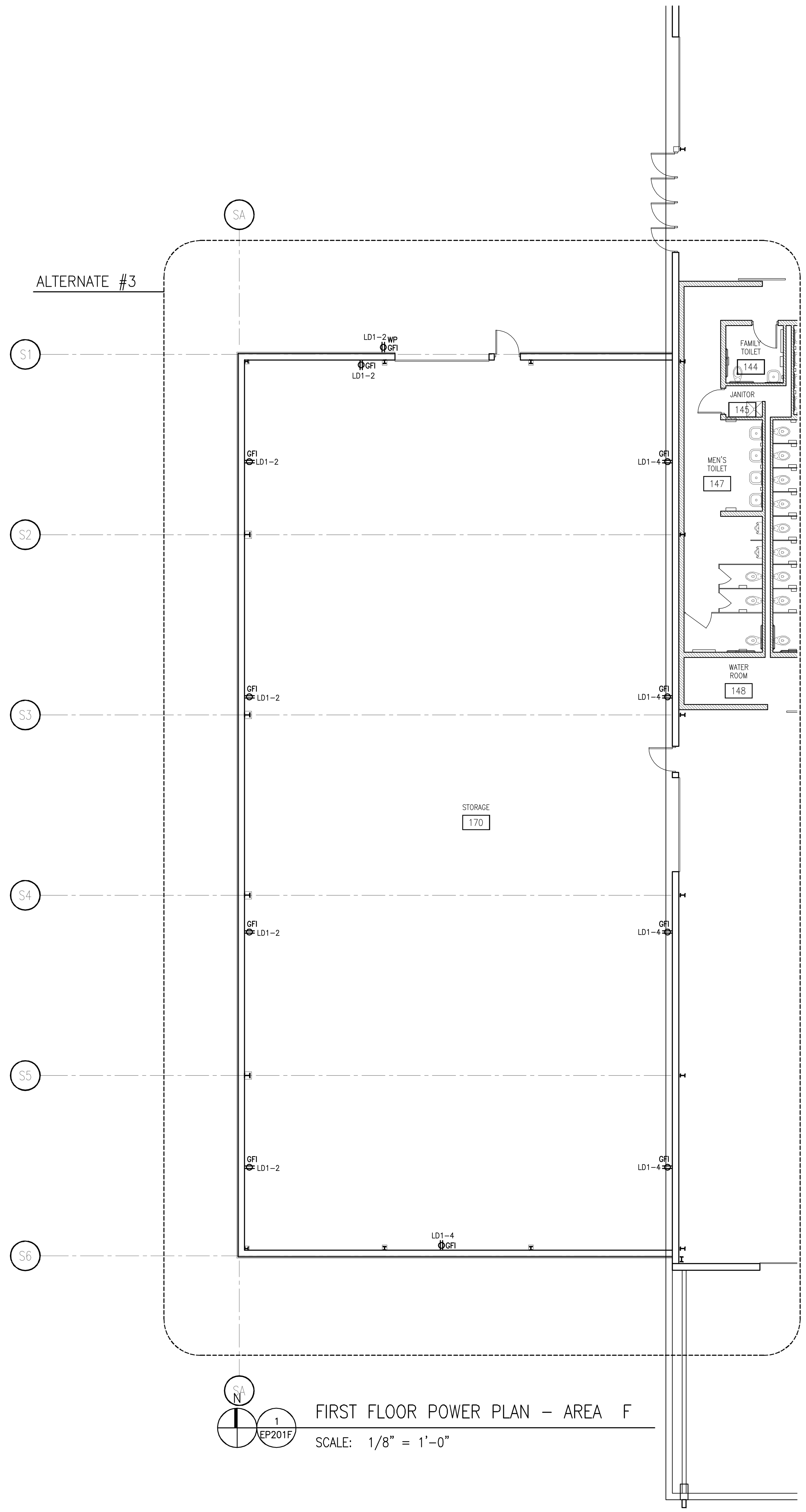

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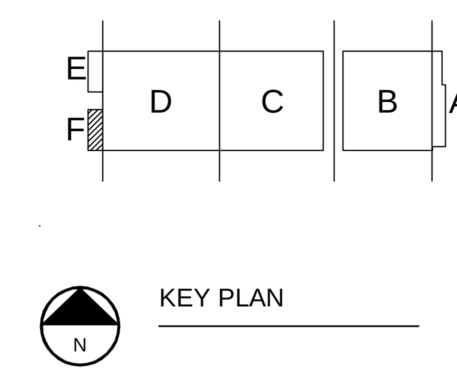
EP201F

FIRST FLOOR POWER PLAN – AREA F

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



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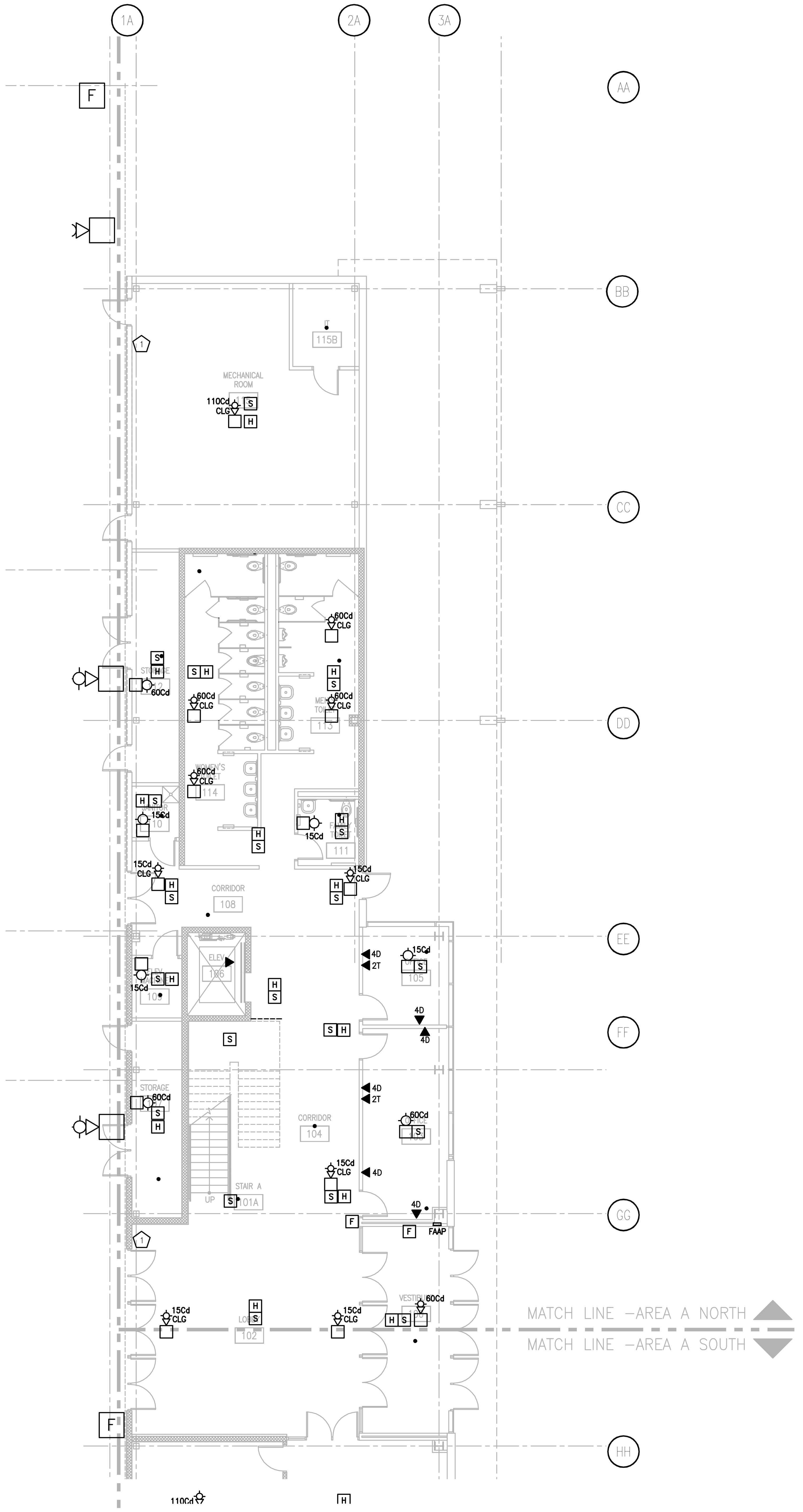
MADISON, WI 53713

SHEET TITLE

FIRST FLOOR POWER PLAN AREA F BUILDING 2

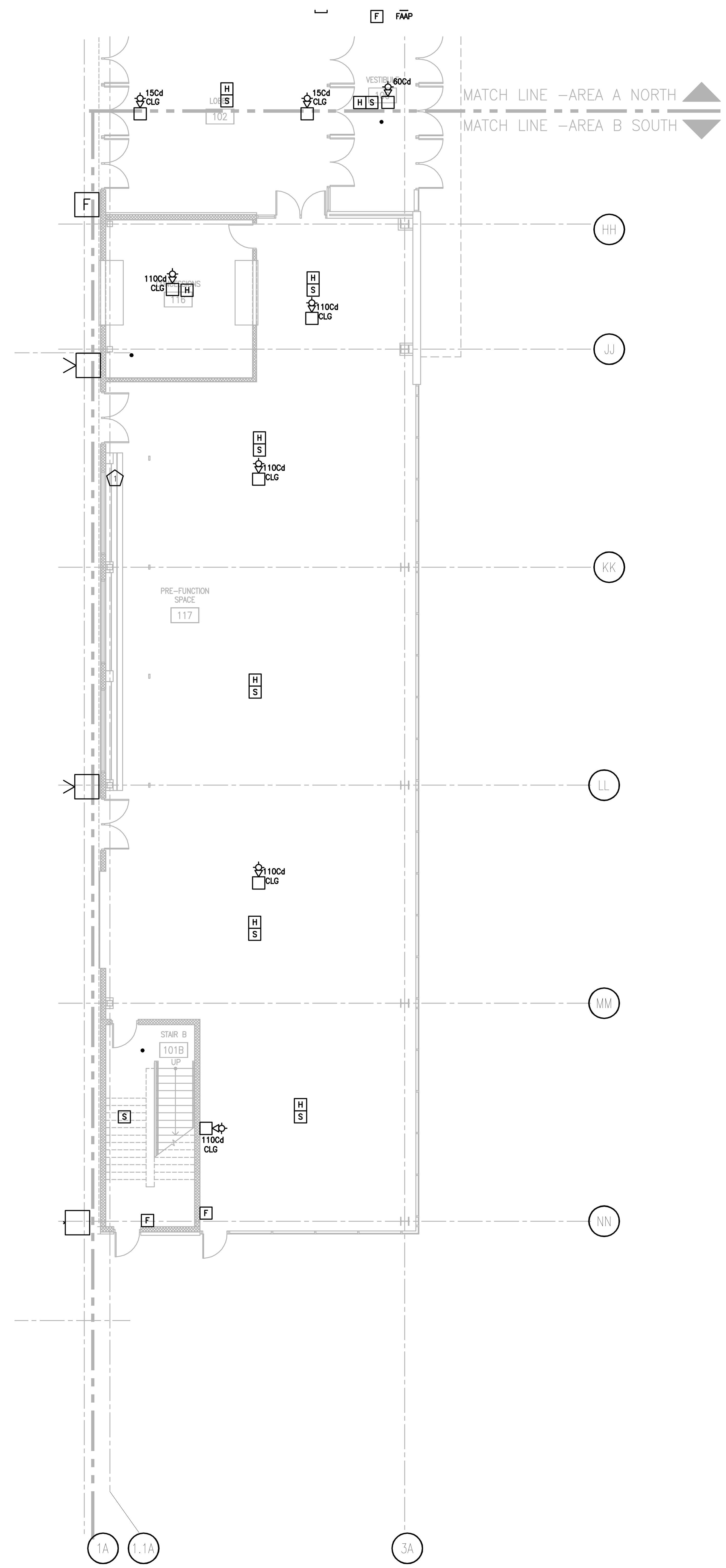
SHEET NO.

EP201F



FIRST FLOOR SYSTEMS PLAN – AREA A NORTH

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



FIRST FLOOR SYSTEMS PLAN – AREA A SOUTH

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

GENERAL PLAN NOTES	
1	ALL FIRE ALARM TO BE FED FROM PANEL LEM-B.

PLAN – SPECIFIC NOTES	
1	PROVIDE WALL PASS-THROUGH ASSEMBLY IN THIS LOCATION. SEE 2/E402 LOCATE 18" AFF.

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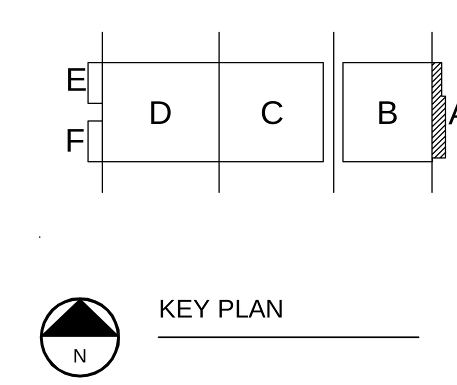


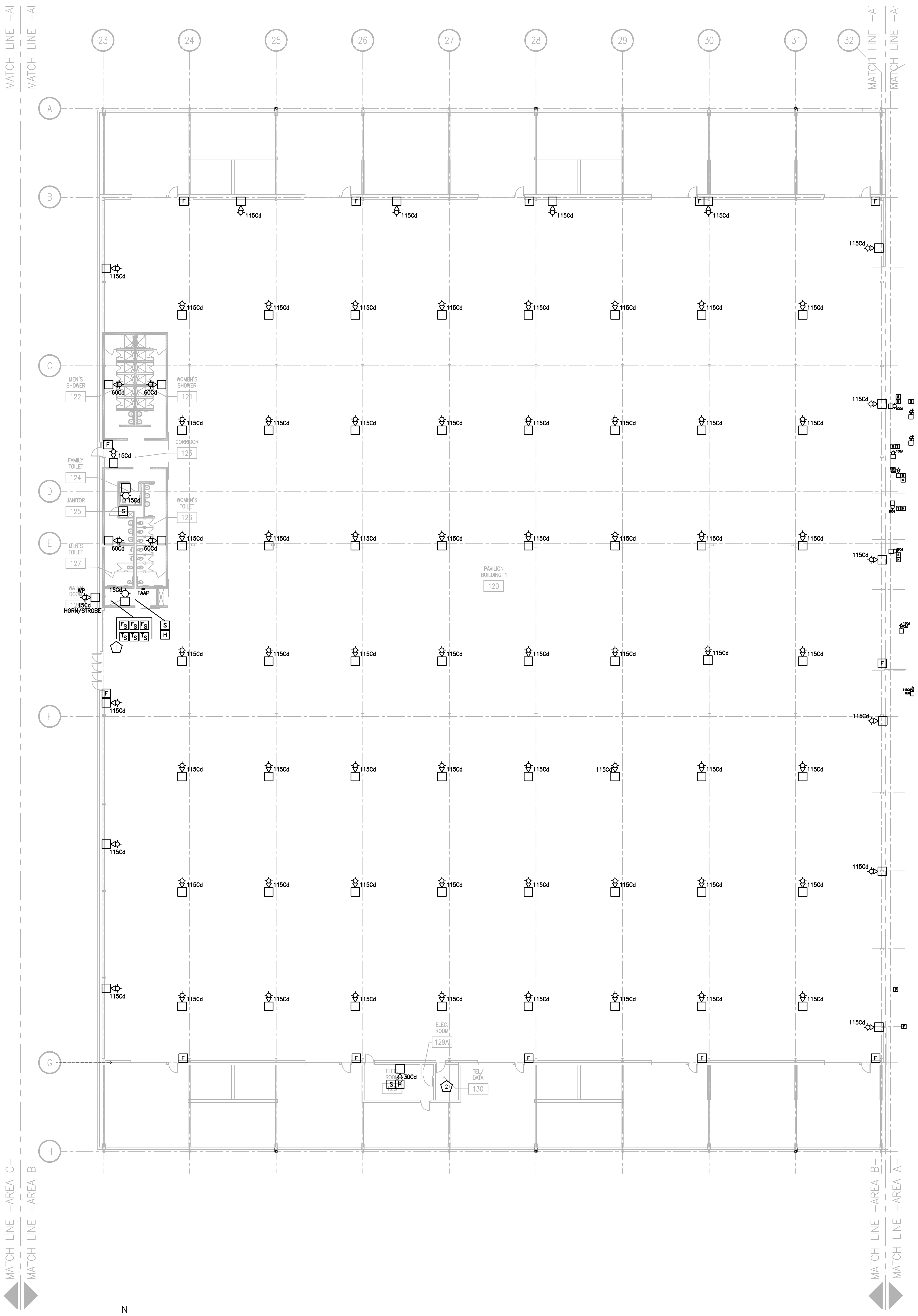
KEY PLAN

SHEET TITLE

FIRST FLOOR SYSTEMS PLAN AREA A BUILDING 1

SHEET NO.

ES201A



N

1
ES201B

FIRST FLOOR SYSTEMS PLAN – AREA B

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

	GENERAL PLAN NOTES
1	ALL SPEAKER/STROBES ARE SURFACE MOUNTED TO UNISTRUT UNLESS LOCATED ON WALL.
2	ALL FIRE ALARM SYSTEM EQUIPMENT IN PAVILION BUILDING 120 MUST BE WATERPROOF.
3	ALL FIRE ALARM EQUIPMENT TO BE FED FROM PANEL LEM-B.

#	PLAN – SPECIFIC NOTES
1	QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES TO BE COORDINATED WITH SPRINKLER CONTRACTOR.
2	REFER TO SHEET E301 FOR EQUIPMENT LOCATED IN ROOM.

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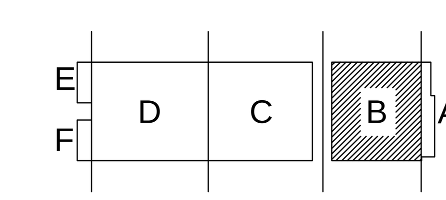

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

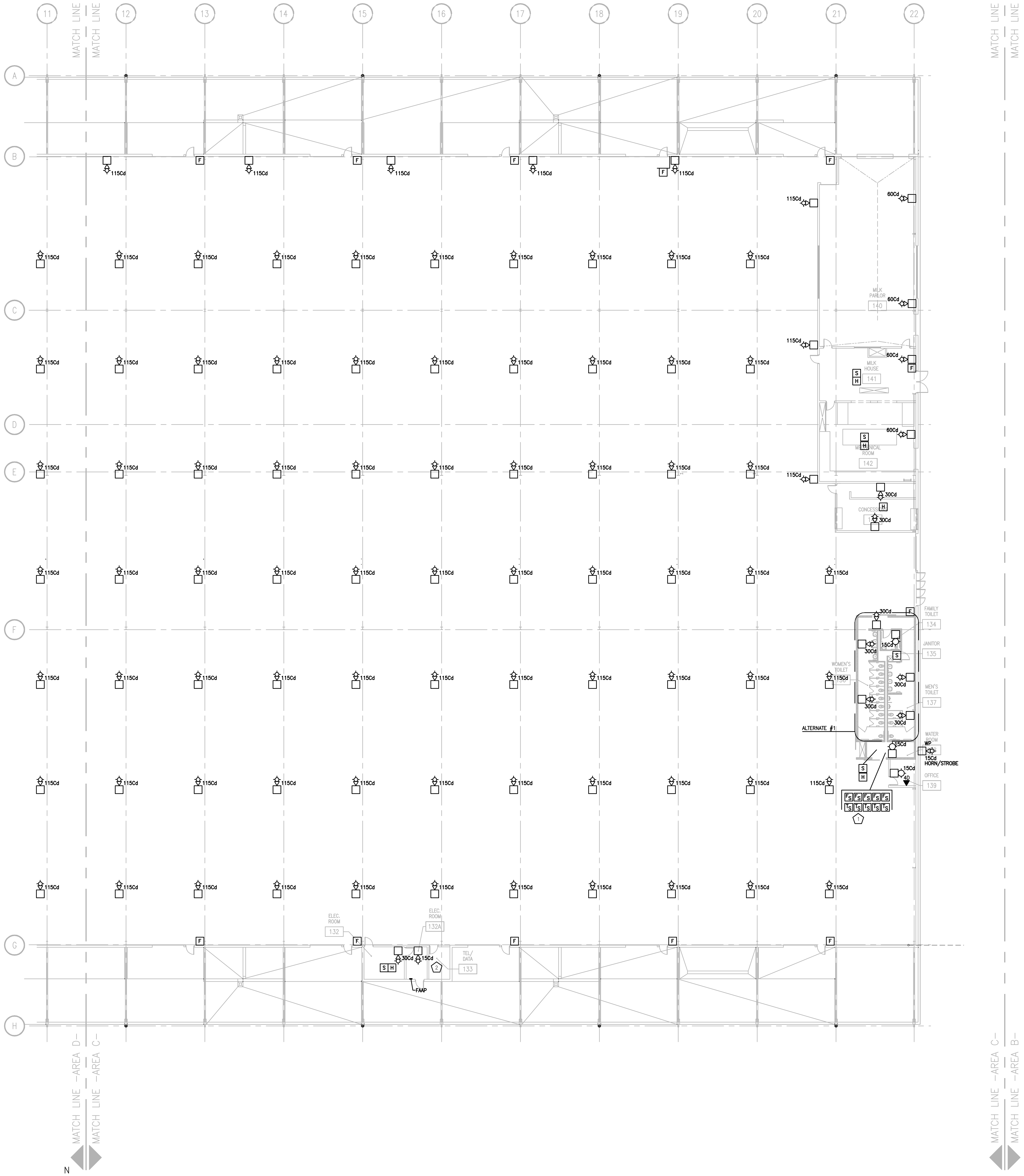
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

FIRST FLOOR SYSTEMS PLAN
AREA B - BUILDING 1

SHEET NO.

ES201B



FIRST FLOOR SYSTEMS PLAN - AREA C

1 / ES201C

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

	GENERAL PLAN NOTES
1	ALL SPEAKER/STROBES ARE SURFACE MOUNTED TO UNISTRUT UNLESS LOCATED ON WALL.
2	ALL FIRE ALARM SYSTEM EQUIPMENT IN PAVILION BUILDING 131 MUST BE WATERPROOF.
3	ALL FIRE ALARM EQUIPMENT TO BE FED FROM PANEL LEM-C.
4	ALTERNATE #1: ADD ALTERNATE - INTERIOR BUILD OUT OF FAMILY TOILET 134, JANITOR 135, WOMEN'S TOILET 136, AND MEN'S TOILET 137 (FLOOR SLAB AND UNDER FLOOR SYSTEMS TO BE INCLUDED IN THE SCOPE OF THE WORK)

#	PLAN - SPECIFIC NOTES
1	QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES TO BE COORDINATED WITH SPRINKLER CONTRACTOR.
2	REFER TO SHEET E301 FOR EQUIPMENT LOCATED IN ROOM.

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ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
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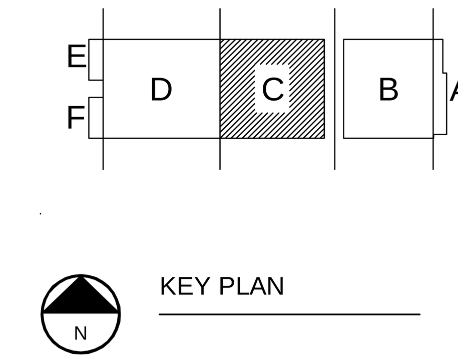
SHEET TITLE

FIRST FLOOR SYSTEMS PLAN AREA C - BUILDING 2



KEY PLAN

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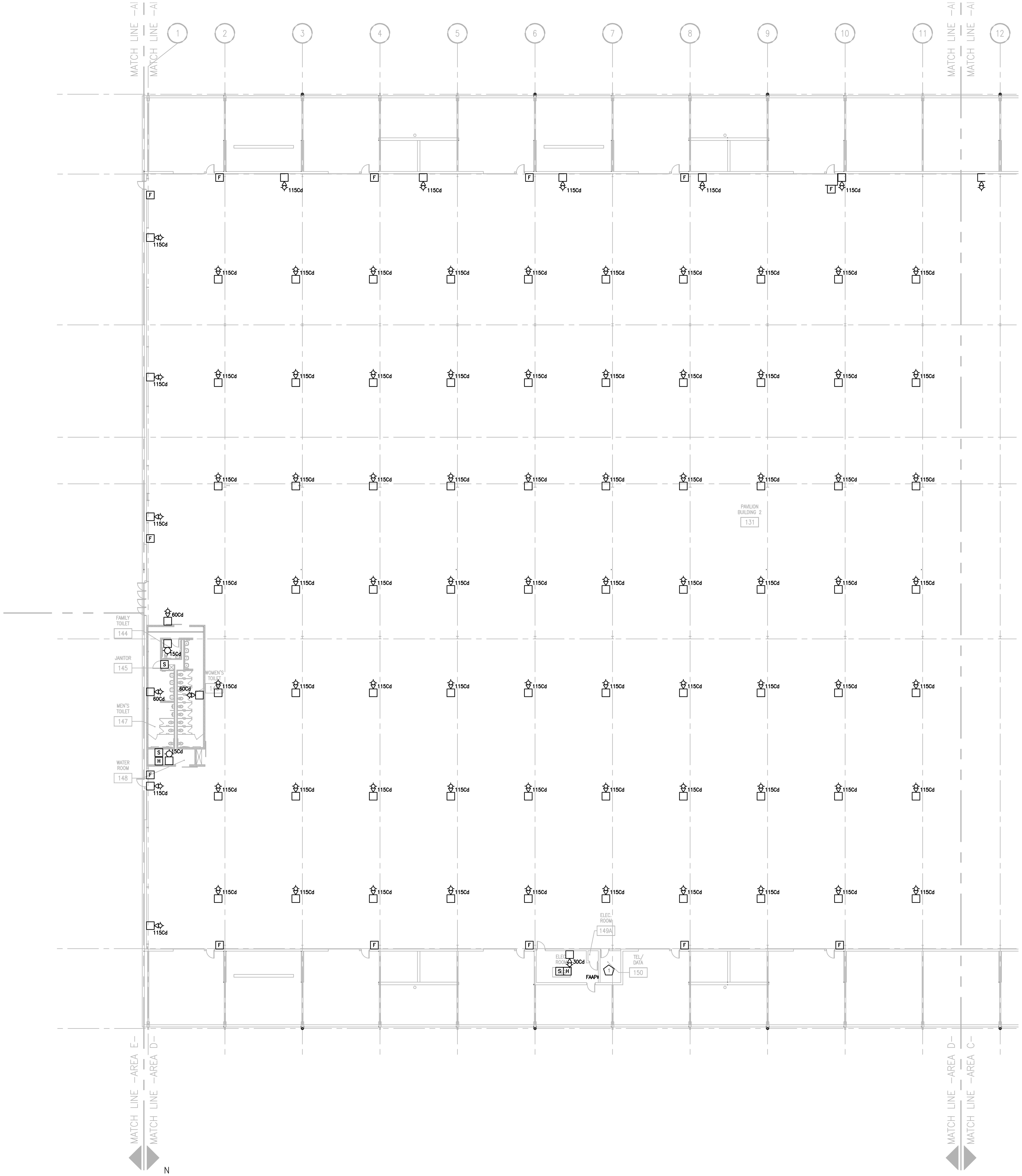

FIRST FLOOR SYSTEMS PLAN - AREA D

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

1 / ES201D

	GENERAL PLAN NOTES
1	ALL SPEAKER/STROBES ARE SURFACE MOUNTED TO UNISTRUT UNLESS LOCATED ON WALL.
2	ALL FIRE ALARM SYSTEM EQUIPMENT IN PAVILION BUILDING 131 MUST BE WATERPROOF.
3	ALL FIRE ALARM EQUIPMENT TO BE FED FROM PANEL LEM-D.

#	PLAN - SPECIFIC NOTES
1	REFER TO SHEET E301 FOR EQUIPMENT LOCATED IN ROOM.

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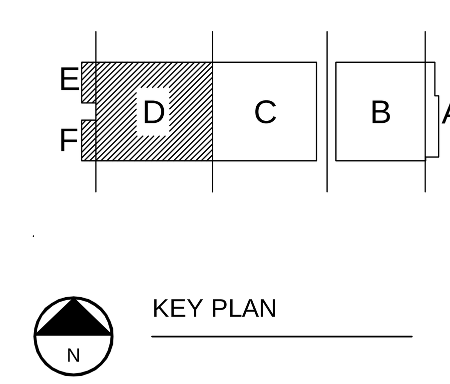

KEY PLAN

SHEET TITLE

FIRST FLOOR SYSTEMS PLAN
AREA D - BUILDING 2

SHEET NO.

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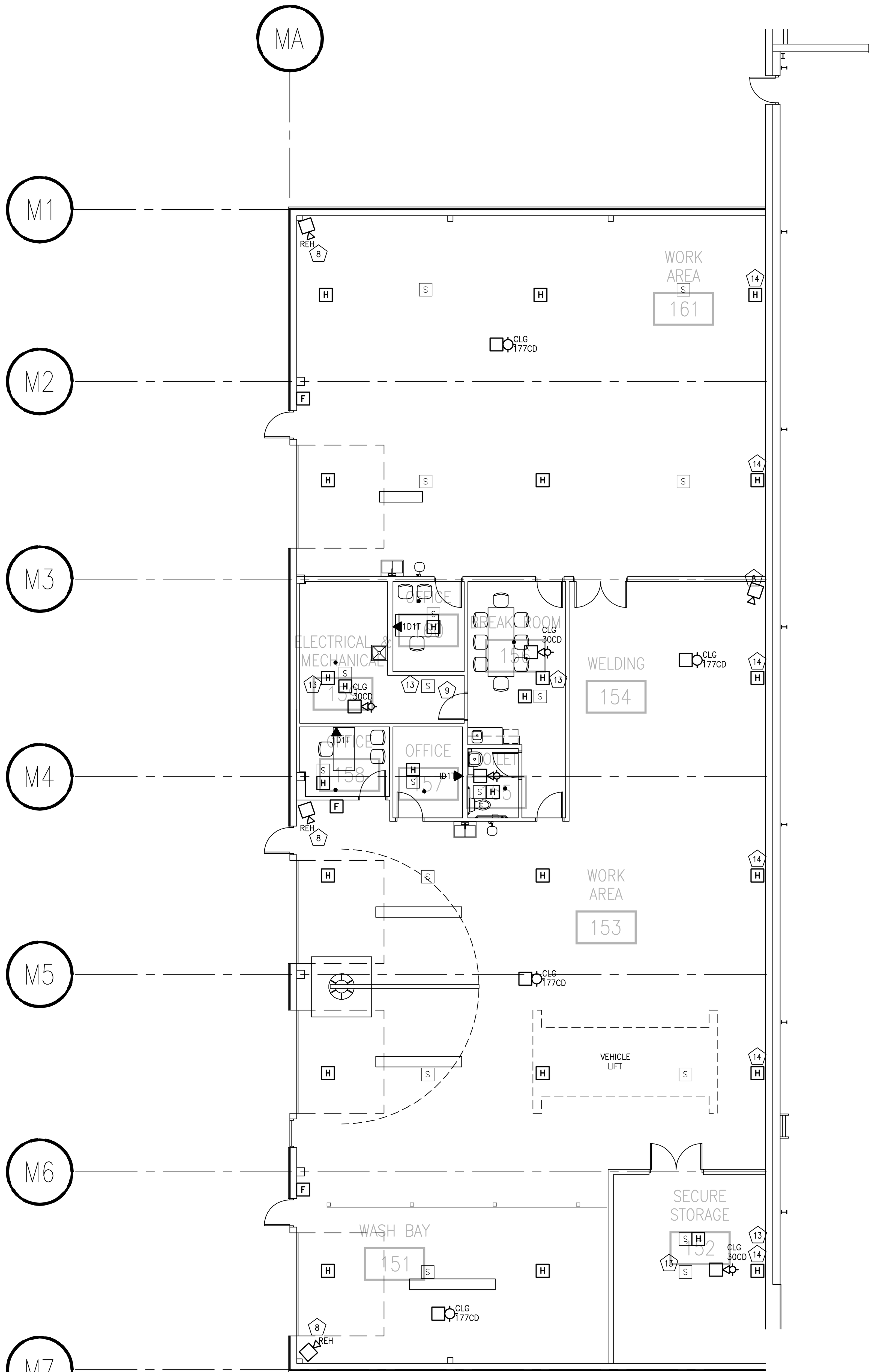

BUILDING E GENERAL NOTES

1	ALTERNATE BID 5: DELETE ALL WORK IN BUILDING 'E' EXCEPT: -INSTALLATION OF PANEL LE AND TRANSFORMER TE -FIRE ALARM INITIATION AND NOTIFICATION DEVICES IN 161,154,153,151 AND ABOVE INTERIOR ROOMS (NOT WITHIN INTERIOR ROOMS -EXTERIOR LIGHTING -EXIT SIGNS AND FIXTURES IN 161,154,153,151 CIRCUITED TO PANEL HEM.

BUILDING E SPECIFIC LIGHTING/POWER/SYSTEMS NOTES

#	PLAN NOTE
1	ROUTE 3/4" CONDUIT FROM OS-1 ALARM ON WALL TO OS-1 PIT UNDER SLAB. COORDINATE LOCATIONS AND ADDITIONAL REQUIREMENTS WITH PLUMBING CONTRACTOR.
2	EXTERIOR WALL MOUNT SO JUNCTION BOX IS CENTERED 1' ABOVE OH DOOR.
3	COORDINATE HEIGHT AND TYPE OF DOOR OPERATOR POWER CONNECTION WITH DOOR OPERATOR SUPPLIER. PROVIDE BACKBOX AT 42" AFF FOR OH DOOR CONTROL BUTTON STATION BY OTHERS. COORDINATE BOX SIZE WITH DOOR OPERATOR SUPPLIER. ROUTE 1/2" CONDUIT TO LOCATION OF DOOR OPERATOR. COORDINATE LOCATION WITH DOOR OPERATOR SUPPLIER. PROVIDE DISCONNECTING MEANS, COORDINATE WITH GC.
4	PROVIDE 12GA CORD PENDANT (NOT A CORD REEL) FOR 208V AND 120V RECEPTACLE FROM CEILING IN THIS LOCATION. PENDANT BOX SHALL HAVE A DUPLEX 120V RECEPTACLE ON ONE SIDE AND A SIMPLEX 208V RECEPTACLE ON THE OTHER SIDE COORDINATE DEVICE TYPE WITH THAT SHOWN ON DRAWINGS. HANG PENDANT DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
5	PROVIDE CEILING OR BEAM MOUNTED RECEPTACLE FOR CORD REELS AS SHOWN. ADJUST REEL STOP SO CORDS HANG AT 7' AFF. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
6	PROVIDE FIXED 10GA CORD PENDANT FOR 208V PENDANT CORD/PLUG FROM CEILING IN THIS LOCATION. HANG PENDANT DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
7	COORDINATE REQUIRED DISCONNECT LOCATION WITH AHJ. IF ALLOWED, THE PREFERRED OPTION IS TO LOCATE DISCONNECT ADJACENT TO OR ON UNIT SERVED. HOWEVER, IF THE AHJ'S INTERPRETATION OF 'READILY ACCESSIBLE' REQUIRES THAT THE DISCONNECT BE LOCATED WITHIN REACH OF THE FLOOR, LOCATE DISCONNECT ON THE NEAREST WALL.
8	CEILING MOUNT OR WALL MOUNTED WITHIN 12" OF CEILING.
9	4'X8'T UL LISTED FIRE RATED PLYWOOD PANEL AND 12 SPACE WALL MOUNTED RACK. PROVIDE PATCH PANELS AND WIRE MANGEMENT AS REQURIED IN SPECIFICATIONS AND ON E402 TELECOMMUNICATIONS RISER DIAGRAM.
10	PADLOCKABLE NON FUSED DISCONNECT WIRED AHEAD OF PANEL B TO ALLOW LOCKOUT OF ENTIRE PANEL B POWER.
11	PROVIDE ELECTRICALLY HELD 3-POLE CONTACTOR IN OR ADJACENT TO PANEL B. CONTACTOR SHALL BE WIRED TO SWITCH IN OFFICE 110. CONTACTOR SHALL HAVE NO EXTERNAL CONTROLS OR OVERRIDE AND SHALL BE PROVIDED WITH A PADLOCKABLE COVER. IF A CONTACTOR INTEGRAL TO THE PANEL IS PROVIDED, THE PANEL COVER SHALL BE PADLOCKABLE.
12	PROVIDE FIXED 12GA CORD PENDANT FOR RECEPTACLE FROM CEILING IN THIS LOCATION. HANG RECEPTACLE DOWN TO 6'-5" AFF. PROVIDE STRAIN RELIEF/WIRE GRIPS INDEPENDENT OF JUNCTION BOX AT CEILING AND PROVIDE STRAIN RELIEF ON OUTLET PENDANT END. PROVIDE DEVICE AS SHOWN ON DRAWINGS. COORDINATE ALL MOUNTING AND LOADING REQUIREMENTS WITH GENERAL CONTRACTOR.
13	LOCATED ON MAIN SPACE CEILING, ABOVE ROOM.
14	LOCATE WITHIN 3' OF CEILING PEAK.

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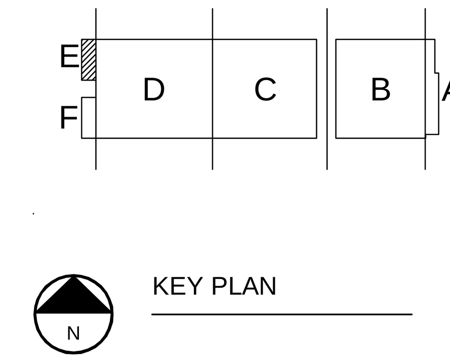

KEY PLAN

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PROJECT NO.	2013027_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

FIRST FLOOR SYSTEMS PLAN
AREA E - BUILDING 2

SHEET NO.

EP201E

	GENERAL PLAN NOTES
1	ALTERNATE #3: ADD ALTERNATE – AREA F

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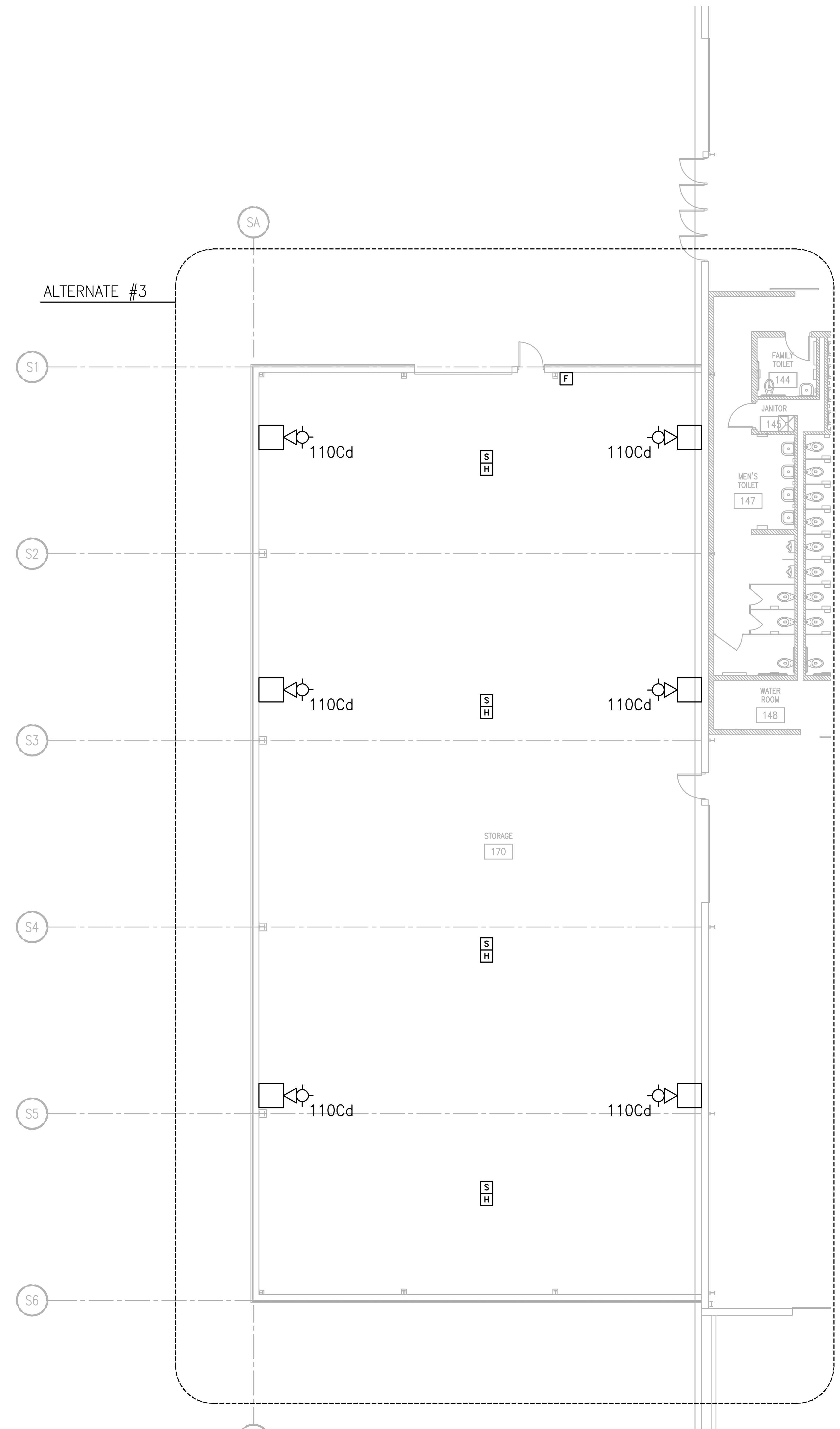

FIRST FLOOR SYSTEMS PLAN – AREA F
1 ES201F
SCALE: 1/8" = 1'-0"

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PROJECT TITLE

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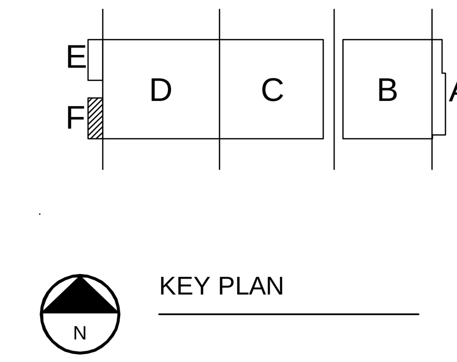


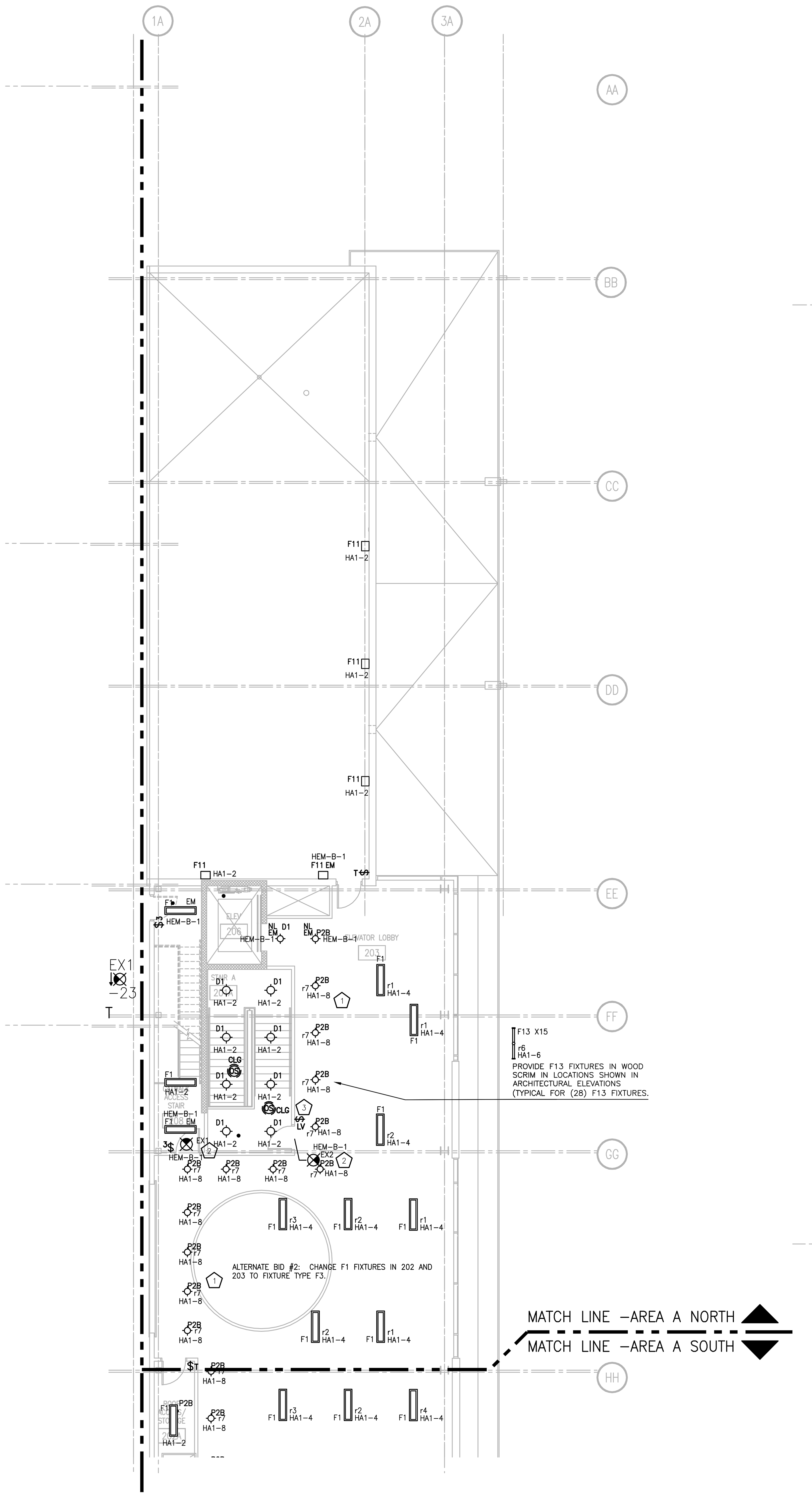
KEY PLAN

SHEET TITLE

FIRST FLOOR SYSTEMS PLAN AREA F BUILDING 2

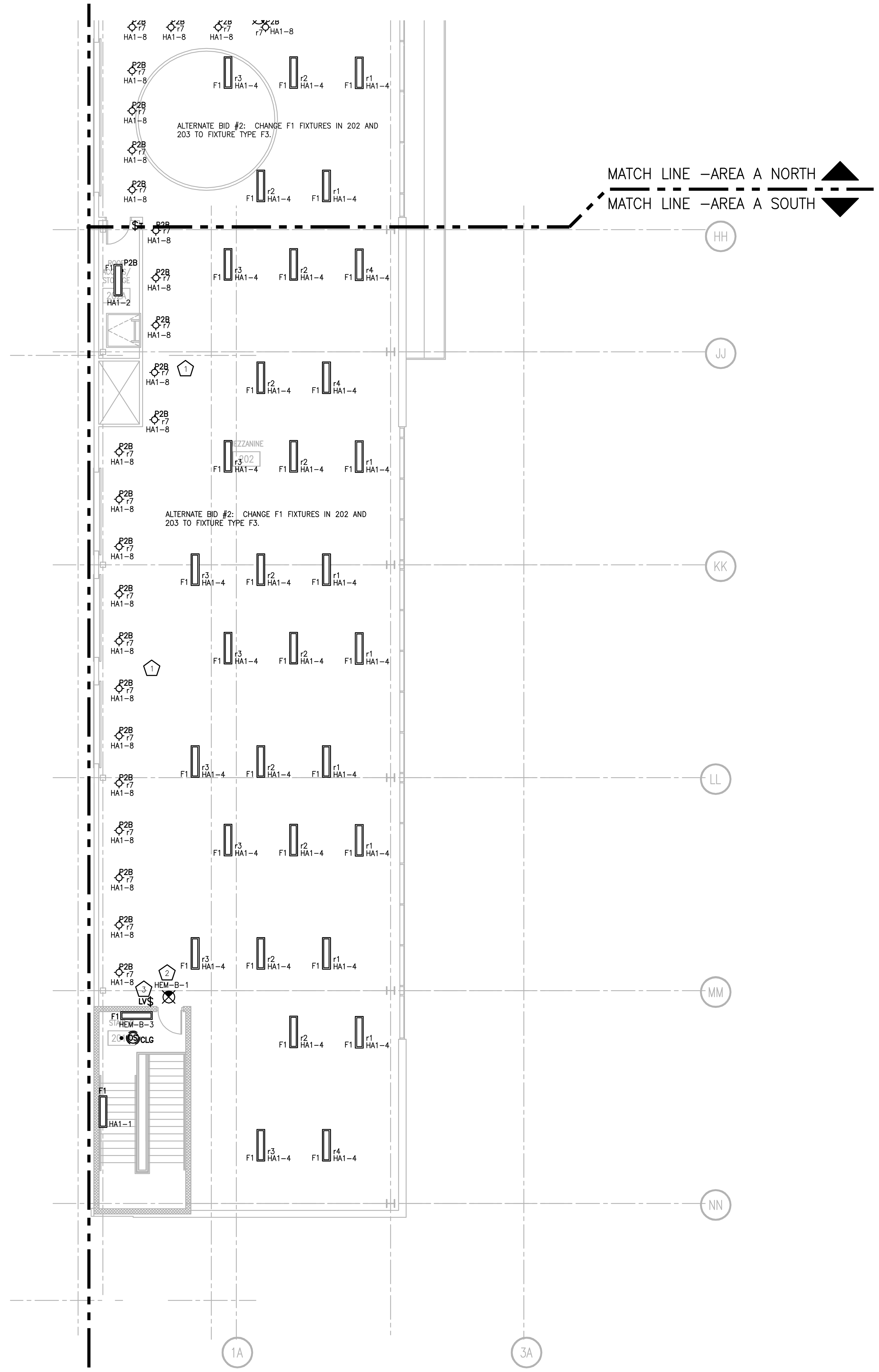
SHEET NO.

ES201F



MEZZANINE LIGHTING FLOOR PLAN - AREA A - NORTH

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



MEZZANINE LIGHTING FLOOR PLAN - AREA A - SOUTH

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

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PLAN - SPECIFIC NOTES

#	
1	ALL P2B FIXTURE ON MEZZANINE IS RELAY 5.
2	EXIT SIGN IS WALL MOUNTED ABOVE DOOR.
3	OWNER TO DECIDE SCENES FOR THE LOW VOLTAGE SWITCHING.

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BID # 313072

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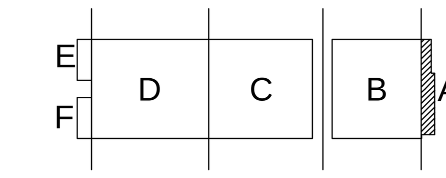


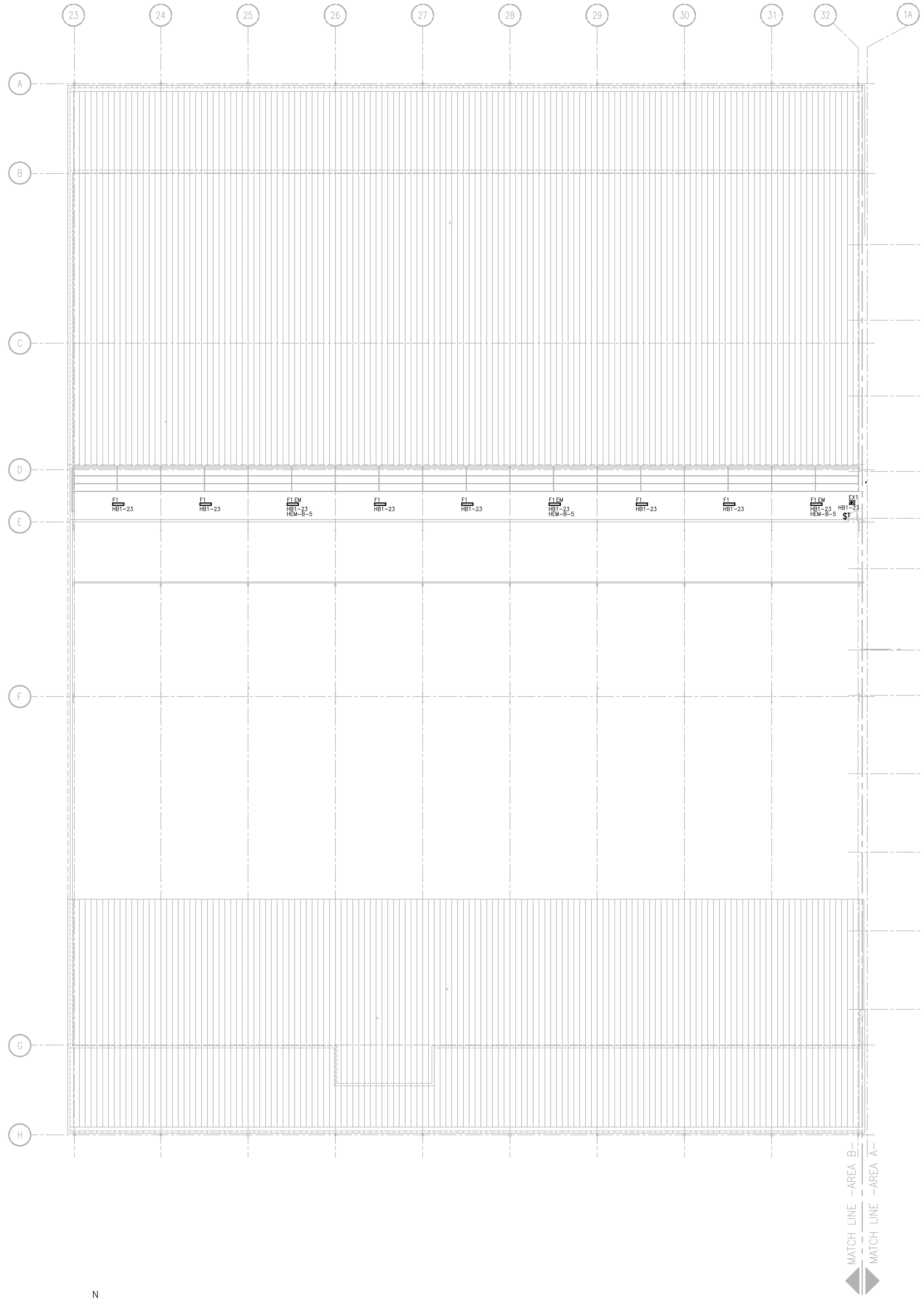
KEY PLAN

SHEET TITLE

MEZZANINE LIGHTING FLOOR PLAN - AREA A

SHEET NO.

EL202A



GENERAL PLAN NOTES

1	LOCATE ALL LIGHTING TO ACCOMMODATE MECHANICAL EQUIPMENT.

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1
EL202B

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

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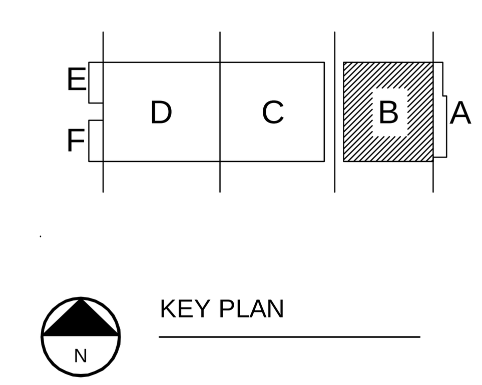


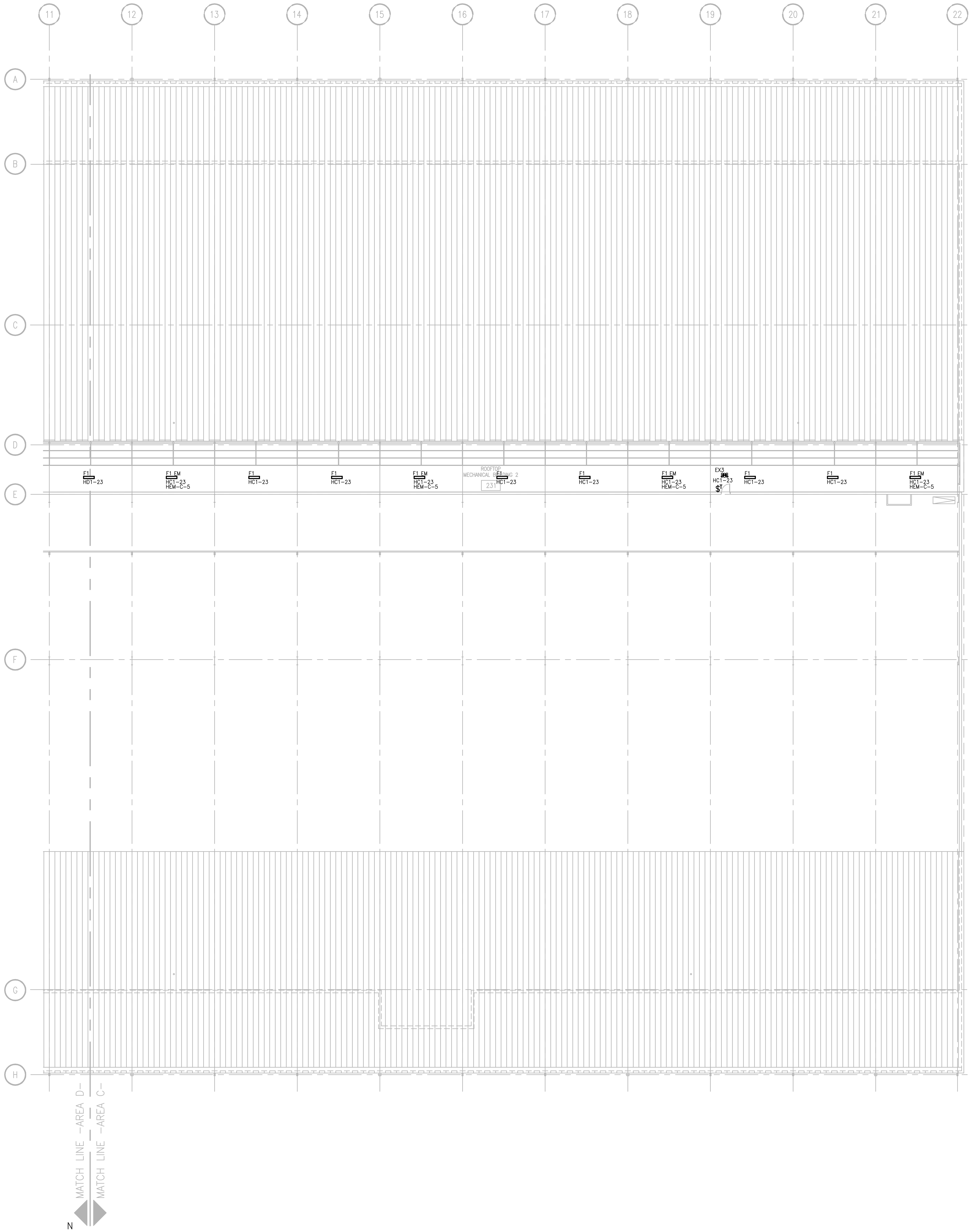
KEY PLAN

SHEET TITLE

MEZZANINE
LIGHTING PLAN
AREA B - BUILDING 1

SHEET NO.

EL202B



1
EL202C
MEZZANINE LIGHTING PLAN – AREA C
SCALE: 1/16"= 1'-0"

GENERAL PLAN NOTES	
1	LOCATE ALL LIGHTING TO ACCOMMODATE MECHANICAL EQUIPMENT.

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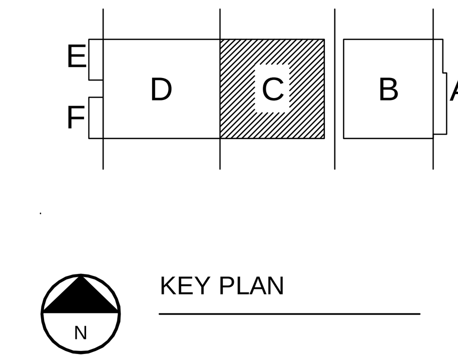


KEY PLAN

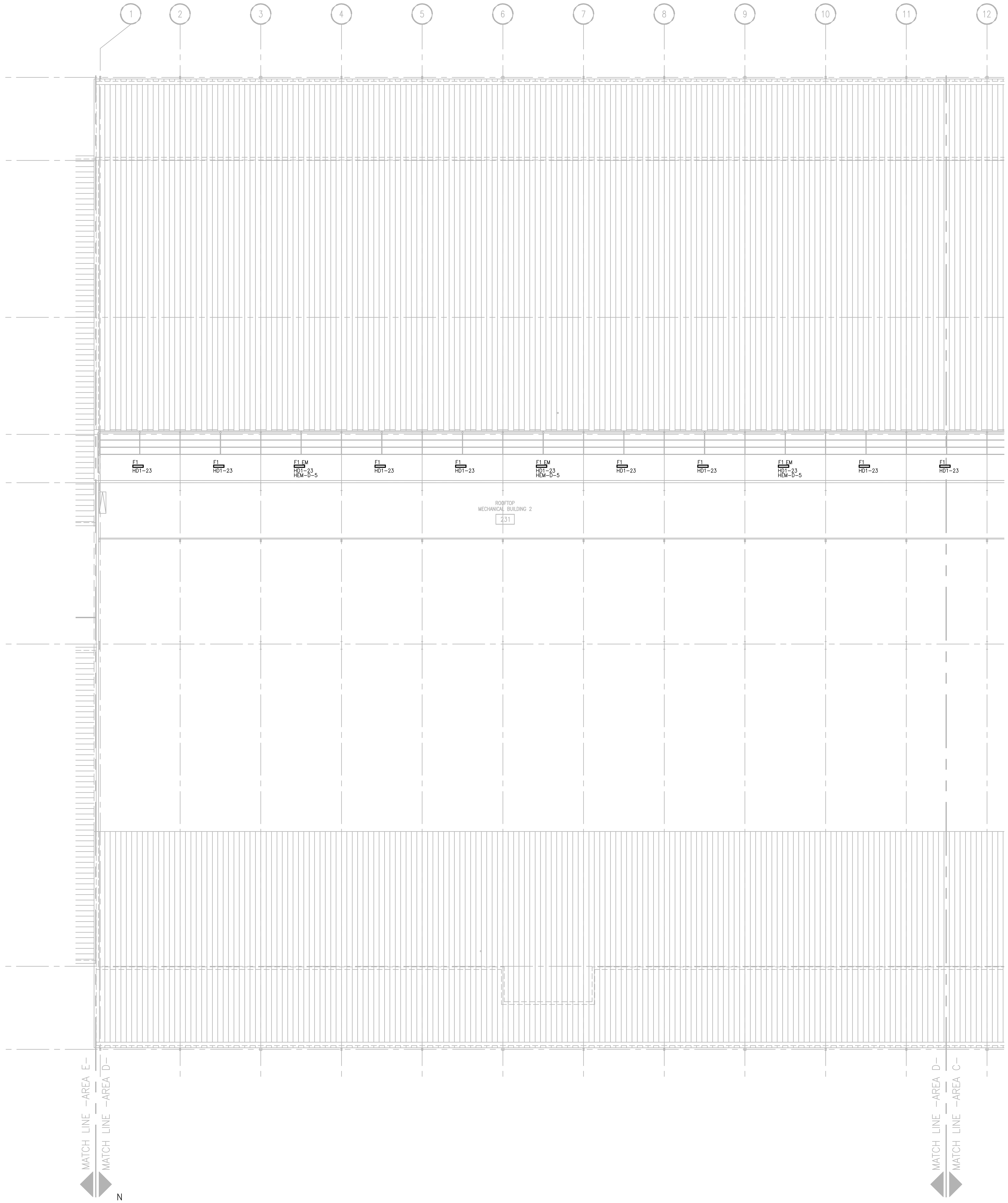
SHEET TITLE

MEZZANINE LIGHTING PLAN AREA C

SHEET NO.

EL202C

KATIE KLABACKA 2009-6-30 2:27 PM K:_2013\2013027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALL\DRAWINGS\2013027_02-EL202C.DWG



N

1 EL202D

MEZZANINE LIGHTING PLAN – AREA D

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

	GENERAL PLAN NOTES
1	LOCATE ALL LIGHTING TO ACCOMMODATE MECHANICAL EQUIPMENT.

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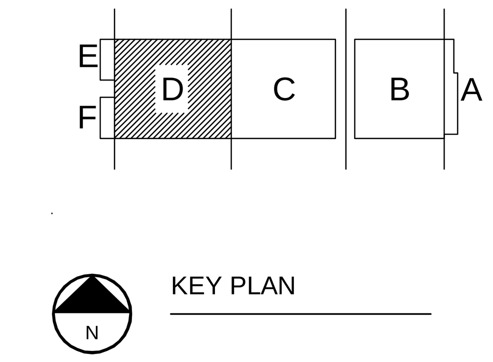

KEY PLAN

SHEET TITLE

MEZZANINE LIGHTING PLAN
AREA D - BUILDING 2

SHEET NO.

EL202D

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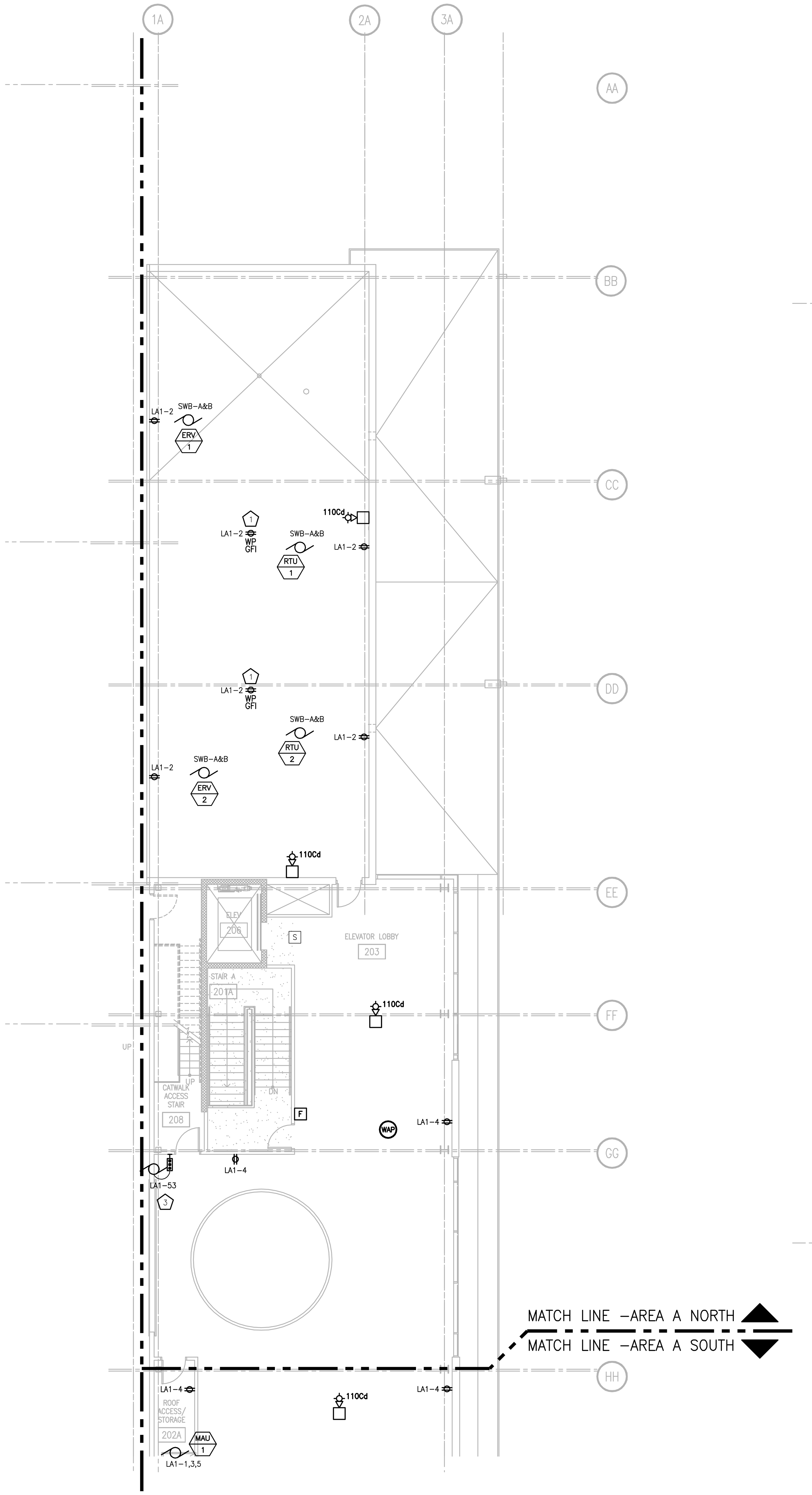
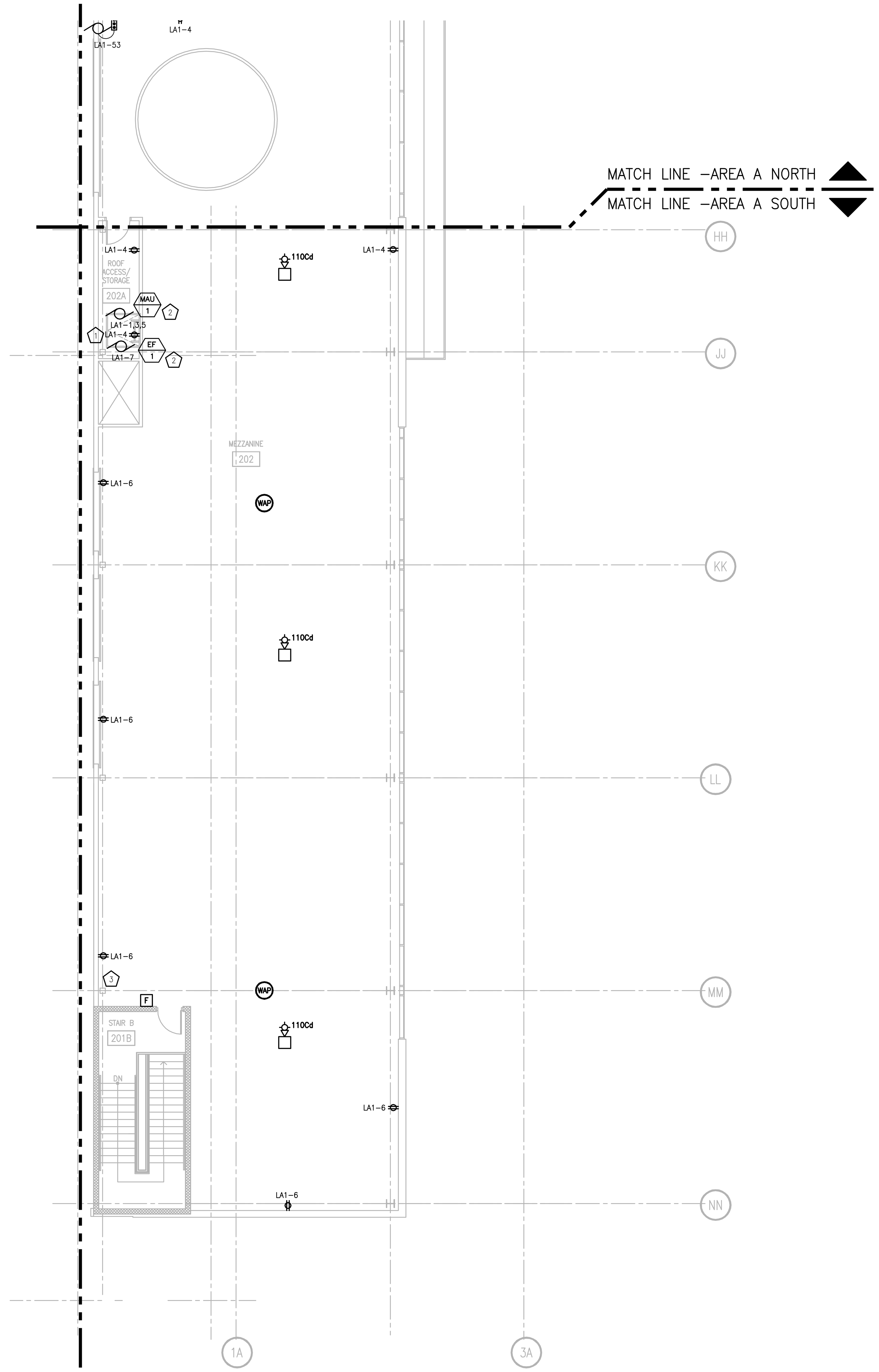


MEZZANINE POWER/SYSTEMS FLOOR PLAN - AREA A - NORTH

1 / EP202A

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



MEZZANINE POWER/SYSTEMS FLOOR PLAN - AREA A - SOUTH

2 / EP202A

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

	GENERAL PLAN NOTES
1	ALL RECEPTACLES IN MECHANICAL AREAS TO BE MOUNTED AT 48" AFF.

#	PLAN - SPECIFIC NOTES
1	LOCATE ABOVE ROOF TO ACCOMODATE MECHANICAL EQUIPMENT.
2	MOTORS LOCATED ON ROOF. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.
3	PROVIDE WALL PASS-THROUGH ASSEMBLY IN THIS LOCATION. SEE 2/E402. LOCATE 18" AFF (MEZZANINE LEVEL FLOOR)

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PROJECT TITLE

ALLIANT ENERGY
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BID # 313072

1919 ALLIANT ENERGY CENTER WAY
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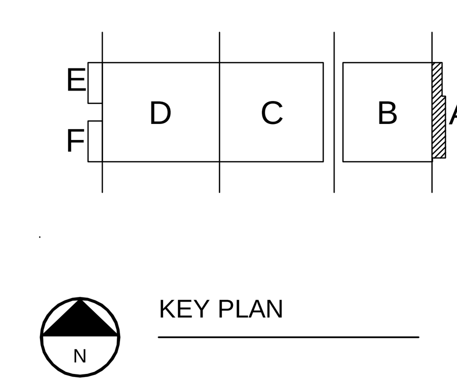


KEY PLAN

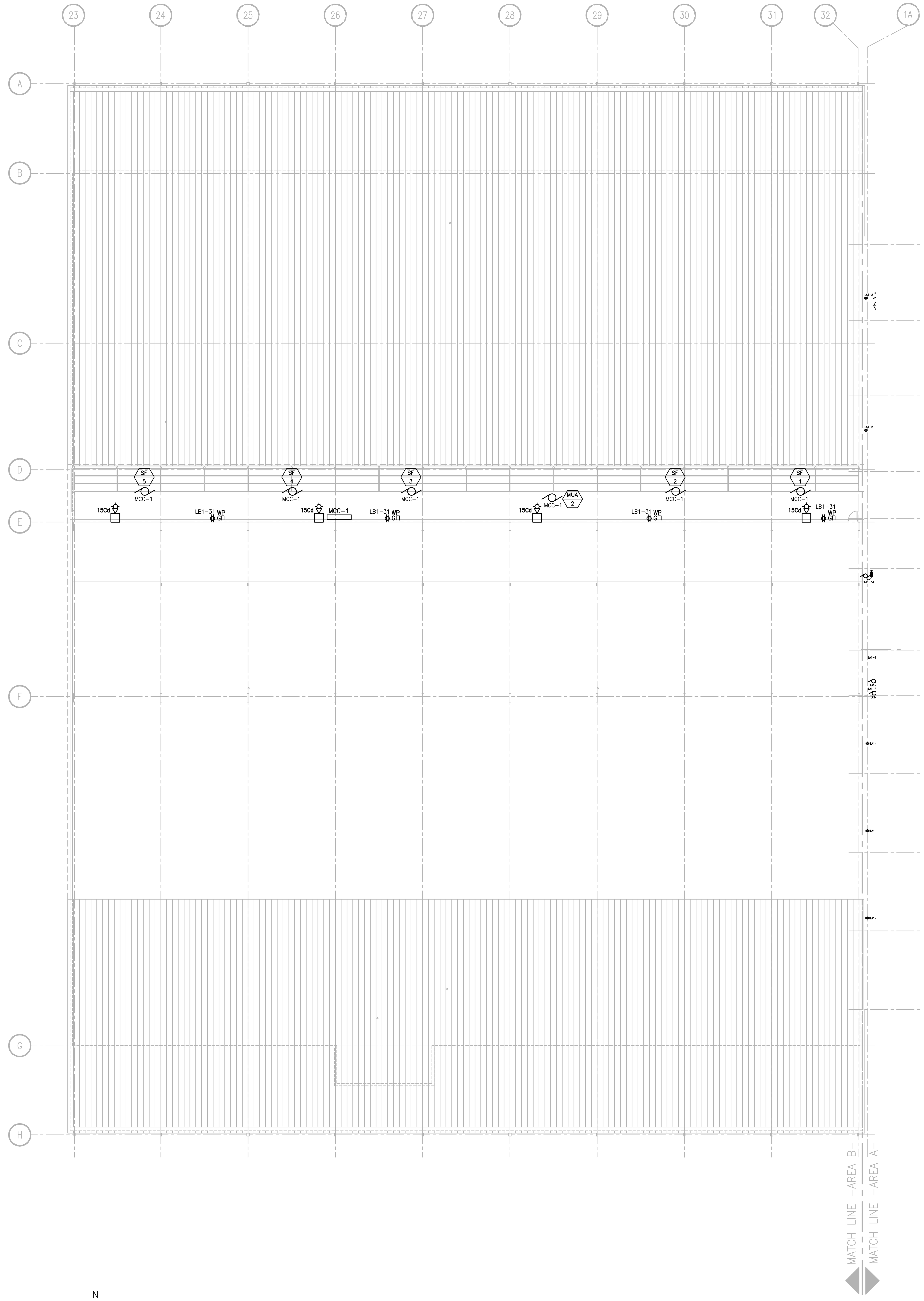
SHEET TITLE

MEZZANINE
POWER/SYSTEMS
FLOOR PLAN - AREA A

SHEET NO.

EP202A

MICHAEL LIBBY 2009-6-30 2:27 PM K:_2013\2013027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALL\DRAWINGS\2013027_02-EP202A.DWG



MEZZANINE POWER/SYSTEMS PLAN – AREA B

1 EP202B

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

	GENERAL PLAN NOTES
1	COORDINATE WITH MECHANICAL CONTRACTOR EXACT LOCATIONS OF EQUIPMENT.

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PROJECT TITLE

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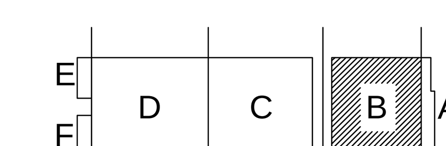


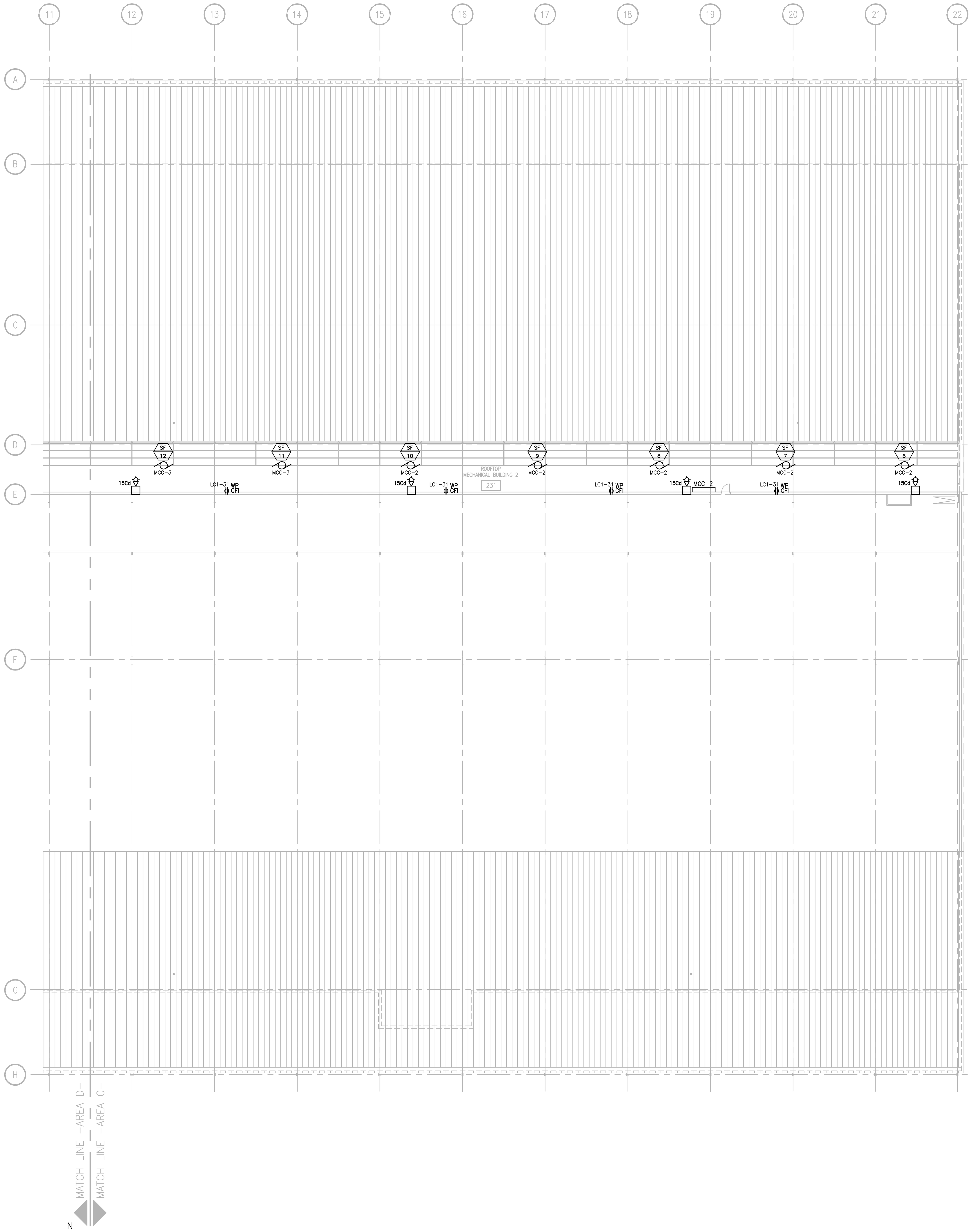
KEY PLAN

SHEET TITLE

MEZZANINE POWER/SYSTEMS AREA B - BUILDING 1

SHEET NO.

EP202B



N

1 EP202C MEZZANINE POWER/SYSTEMS PLAN – AREA C

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

	GENERAL PLAN NOTES
1	COORDINATE WITH MECHANICAL CONTRACTOR EXACT LOCATIONS OF EQUIPMENT.

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PROJECT TITLE

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BID # 313072

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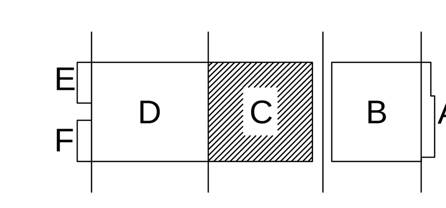

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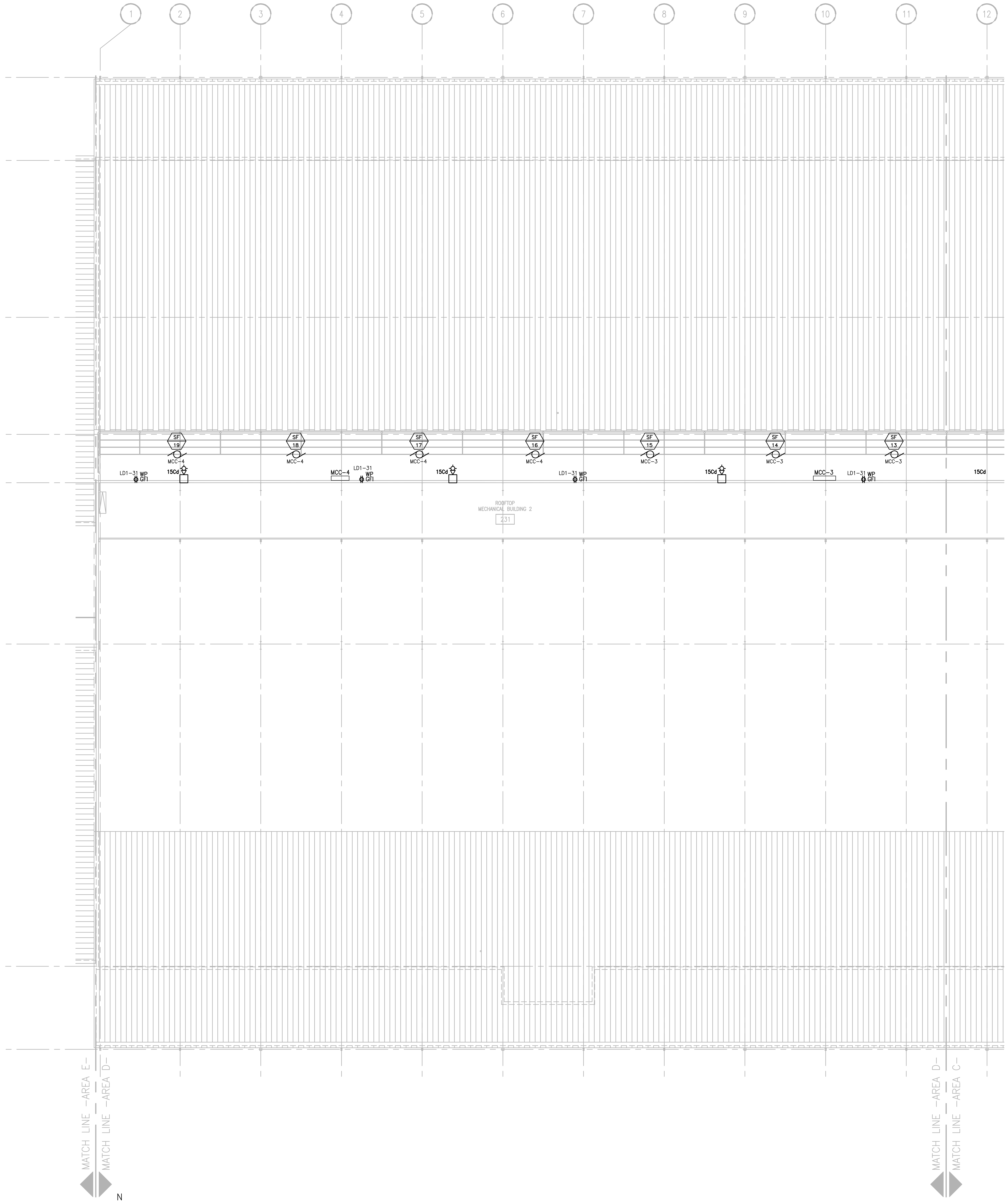
KEY PLAN

SHEET TITLE

MEZZANINE
POWER/SYSTEMS
AREA C - BUILDING 2

SHEET NO.

EP202C



N

1 EP202D

MEZZANINE POWER/SYSTEMS PLAN – AREA D

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

	GENERAL PLAN NOTES
1	COORDINATE WITH MECHANICAL CONTRACTOR EXACT LOCATIONS OF EQUIPMENT.

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PROJECT TITLE

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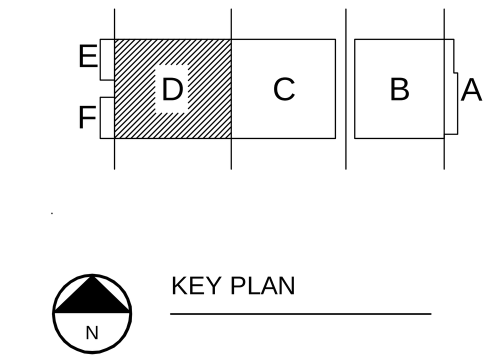


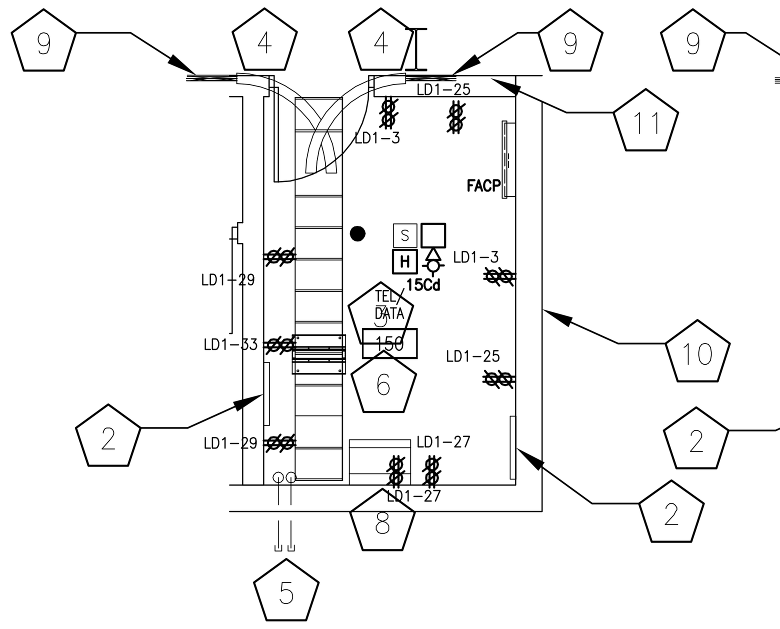
KEY PLAN

SHEET TITLE

MEZZANINE POWER/SYSTEMS AREA D - BUILDING 2

SHEET NO.

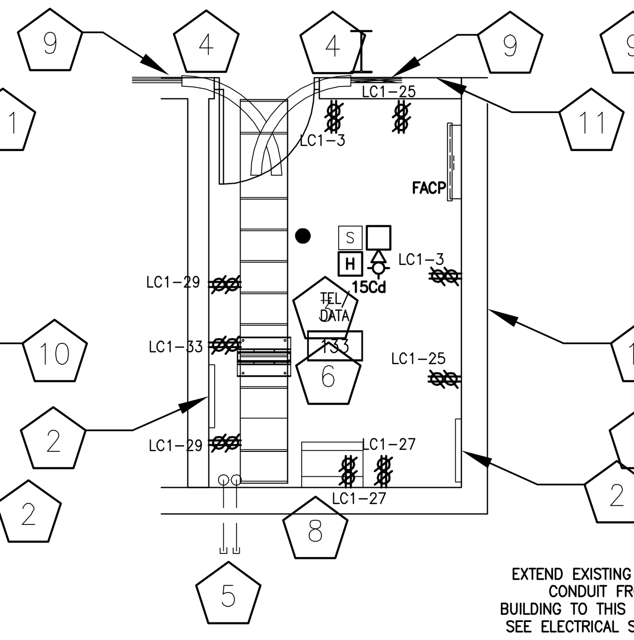
EP202D



TEL/DATA 150

4
E301

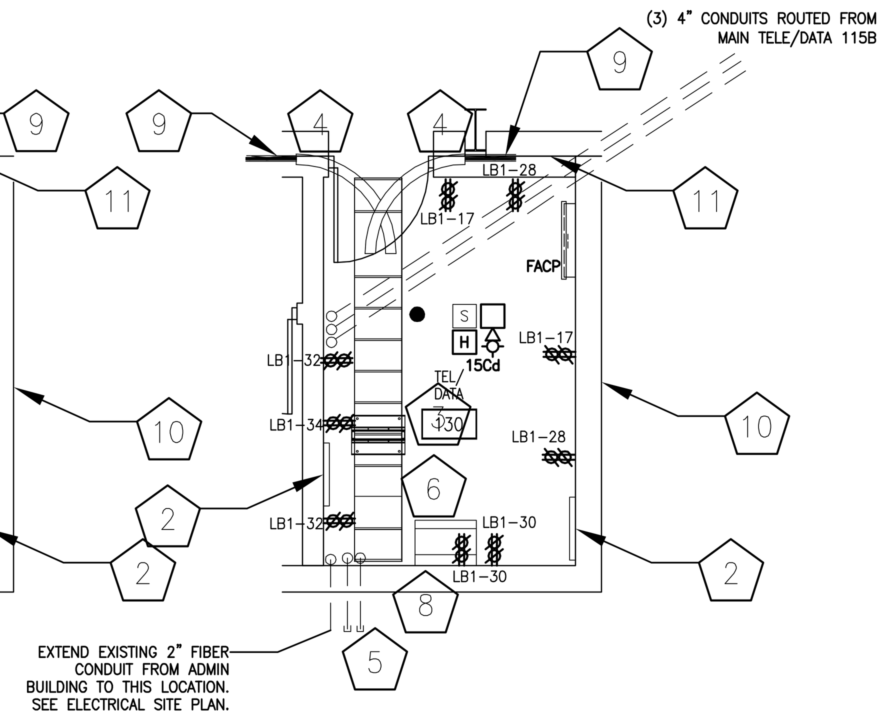
SCALE: 1/4"=1'



TEL/DATA 133

3
E301

SCALE: 1/4"=1'



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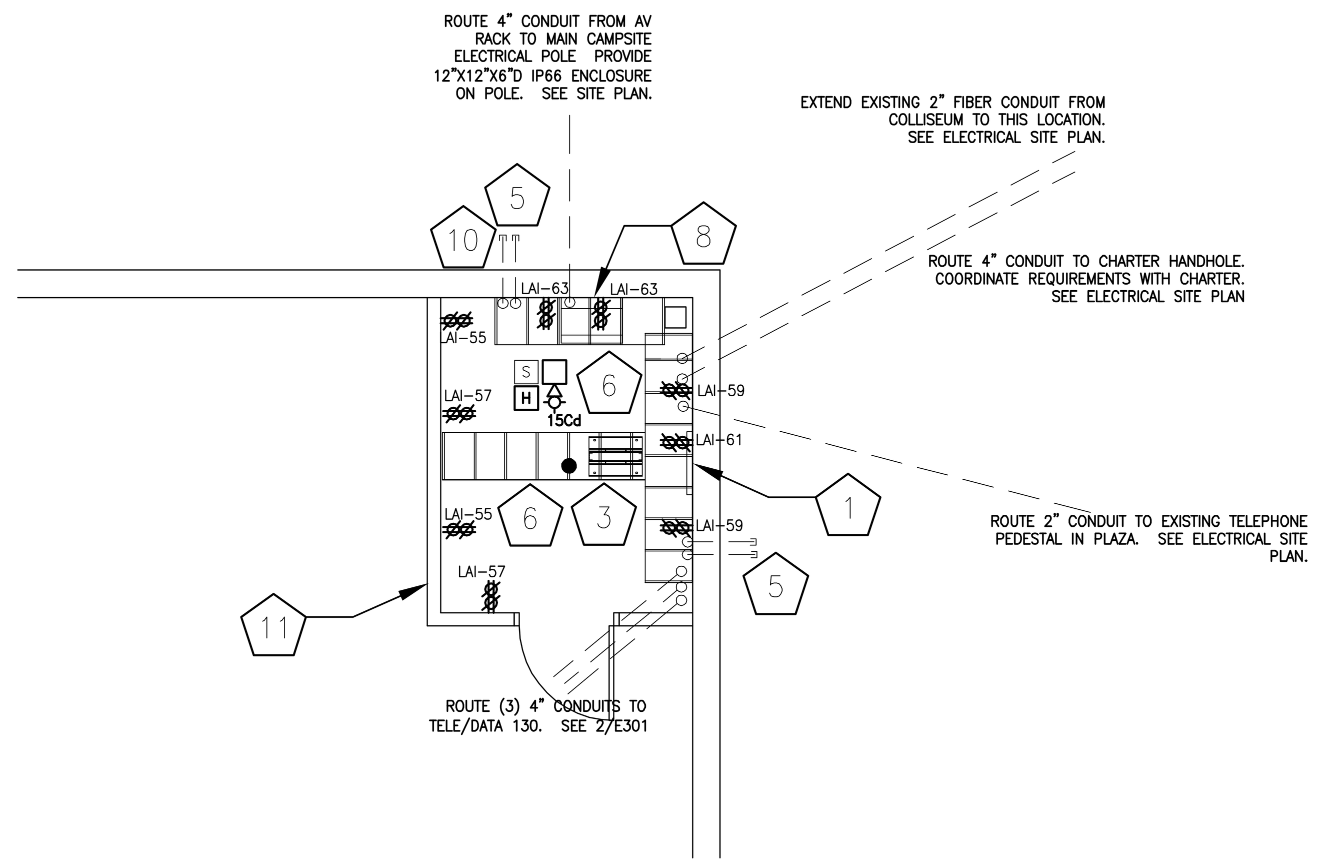
E301

SCALE: 1/4"=1'



TEL/DATA 115B

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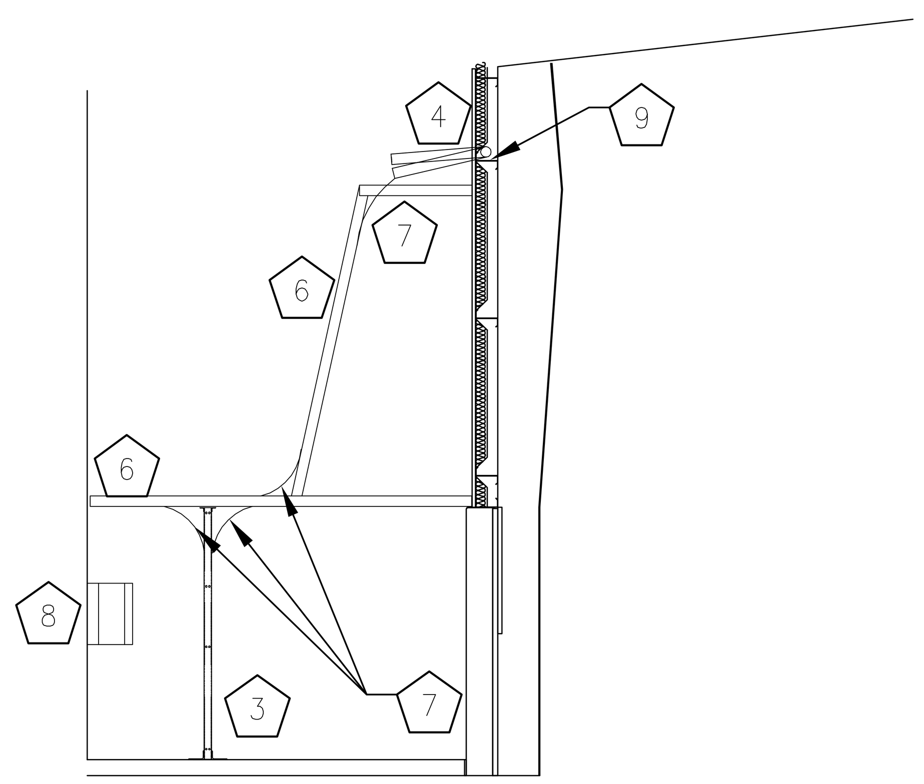
E301

SCALE: 1/4"=1'



CONDUIT/LADDER RACK ELEVATION
TEL/DATA 130, 133, 150

5
E301

SCALE: 1/4"=1'

#	ENLARGED PLAN NOTES
1	24" LONG TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB). SEE SPECIFICATIONS FOR REQUIREMENTS.
2	24" LONG TELECOMMUNICATIONS GROUNDING BUSBAR (TGB). SEE SPECIFICATIONS FOR REQUIREMENTS.
3	96" TALL FLOOR MOUNTED, 2-POST 19" RACK. SEE SPECIFICATIONS. PROVIDE ALL EQUIPMENT, VERTICAL AND HORIZONTAL WIRE MANAGEMENT AND ACCESSORIES REQUIRED IN SPECIFICATIONS AND AS TYPICAL FOR A COMPLETE AND FINISHED INSTALLATION TO APPLICABLE EIA/TIA STANDARDS AND INDUSTRY STANDARDS.
4	4" CONDUIT SWEEPS FROM STRUCTURAL GIRT INTO TELE/DATA ROOM. PROVIDE SUPPORT AS REQUIRED.
5	PROVIDE (2) 4" CONDUITS STUBBED 5' BEYOND FOUNDATION OR CONCRETE DRIVE AND CAPPED FOR FUTURE USE
6	18" LADDER RACK. SUPPORT PER MANUFACTURER'S REQUIREMENTS.
7	PROVIDE WATERFALLS AS NEEDED TO MAINTAIN BEND RADIUS.
8	WALL MOUNTED A/V RACK FOR MOBILE TELEVISION COMPANY. 12U, 19" RACK. HINGED BACK, HINGED LOCKABLE DOOR. STARTECH RK1219WALHM OR EQUAL. PROVIDE FIBER PATCH PANEL AS SHOWN ON E402. LOCATE RECEPTACLE SHOWN INSIDE RACK.
9	ROUTE CABLING ON STRUCTURAL GIRT AS SHOWN. EC SHALL INSPECT GIRT PRIOR TO CABLE PULLING, AND ENSURE CABLES ARE NOT PULLED OR LAID ACROSS SHARP CUTS OR EDGES. FIBER OPTIC CABLES SHALL BE ROUTED IN FIBER INNERDUCT TO PROTECT FROM CUTS OR ABBRASIONS.
10	PROVIDE WALL PASS-THROUGH ASSEMBLY IN THIS LOCATION. SEE 2/E402. LOCATE 36" AFF.
11	PROVIDE WALL PASS-THROUGH ASSEMBLY IN THIS LOCATION. SEE 2/E402. LOCATE 18" AFF.

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FILE NAME	2013027_02-E301.DWG
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DATE	08-01-13
PROJECT NO.	2013027_02

PROJECT TITLE

ALLIANT ENERGY
CENTER PAVILIONS
BID # 313072

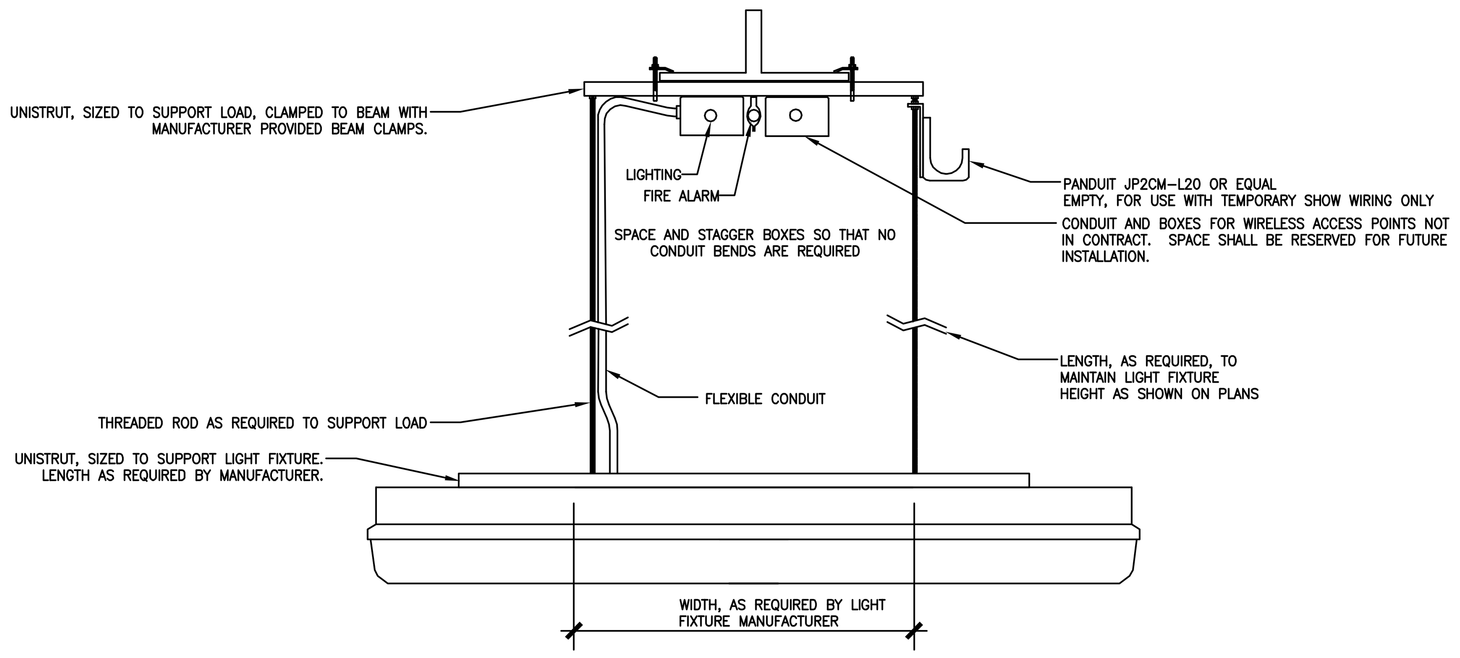
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

ENLARGED
ELECTRICAL PLANS

SHEET NO.

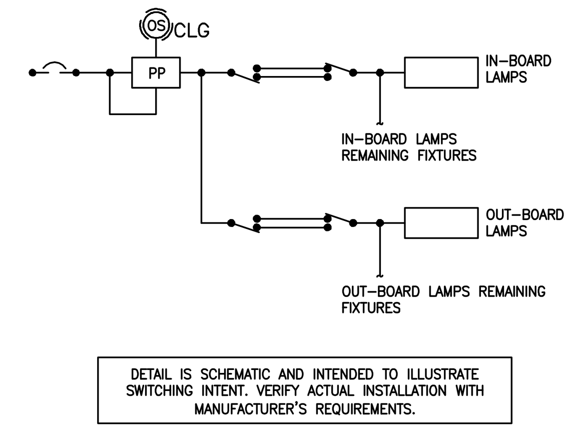
E301



AT LIGHT FIXTURE LOCATIONS

6 / E401 PAVILION LIGHTING, FIRE ALARM, DATA CONDUIT AND SUPPORT SYSTEM

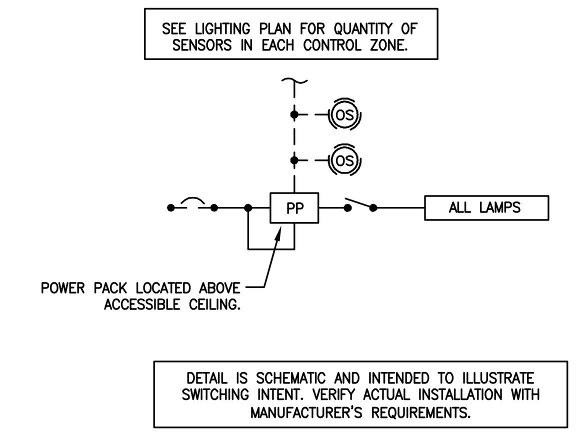
SCALE: N.T.S.



3-WAY SWITCHING

4 / E401 CEILING OCCUPANCY SENSOR W/ TWO LEVELS LIGHTING

SCALE: N.T.S.

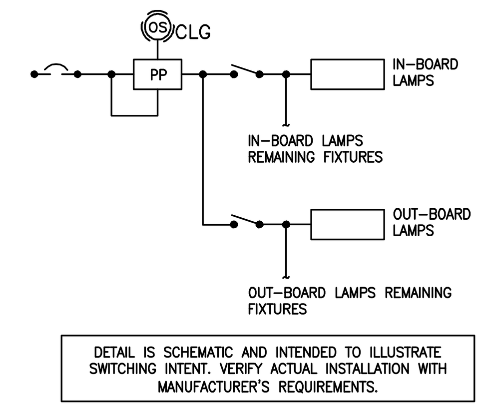


1 / E401 CEILING OCCUPANCY SENSOR W/ SINGLE POLE SWITCH

SCALE: N.T.S.

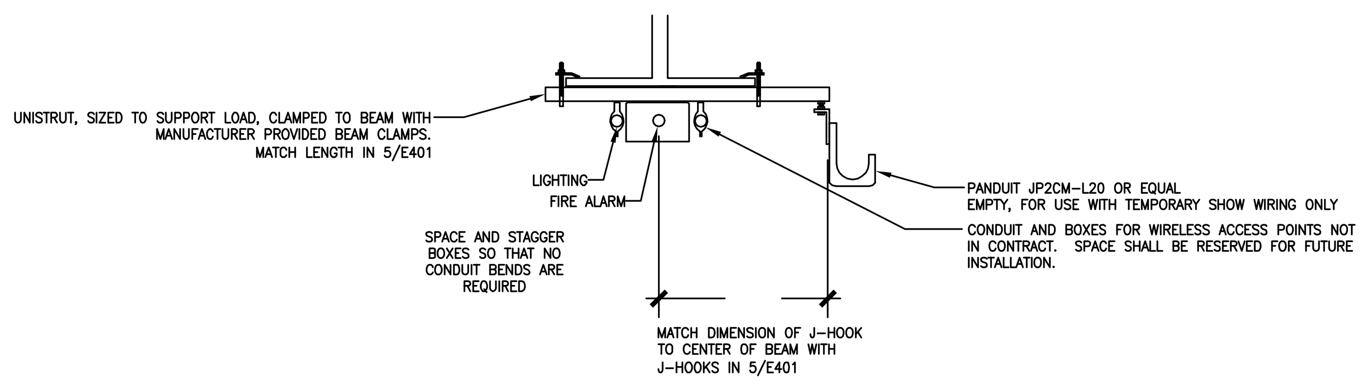
	GENERAL PLAN NOTES FOR DETAIL 5
1	THIS DIAGRAM IS NOT INTENDED TO BE A FIELD WIRING DIAGRAM THAT INDICATES SPECIFIC WIRING AND CONNECTION REQUIREMENTS, DIAGRAM INDICATES GENERAL SYSTEM COMPONENTS AND ARRANGEMENT ONLY. COMPLETE SYSTEM INSTALLATION SHALL BE AS RECOMMENDED BY EQUIPMENT MANUFACTURER ACCORDING TO SHOP DRAWINGS AND FIELD WIRING DIAGRAMS FURNISHED BY THE MANUFACTURER.
2	VERIFY ALL LOCATIONS FOR EQUIPMENT ON SITE WITH OWNER.
3	EQUIPMENT CATALOG NUMBERS LISTED ON DIAGRAM IS EQUIPMENT MANUFACTURED BY LC&D.

#	DETAIL 5 – SPECIFIC NOTES
1	480 / 277V BRANCH CIRCUIT PANEL SERVING LIGHTING IN RESPECTIVE AREA. REFER TO LIGHTING FLOOR PLANS FOR CIRCUIT NUMBERS.
2	LIGHTING RELAY MASTER CONTROL PANEL CAT. NO. GR2432 LT INT 32NCL DTC MOD DV/GR2432 LT ENC SM NE1.
3	LIGHTING RELAY REMOTE CONTROL PANEL CAT. NO. GR2432 LT INT 32NCL REMOTE DV/GR2432 LT ENC SM NE1.
4	LOCAL LOW VOLTAGE MANUAL CONTROL SWITCH CH6 WP BWH PWH. VERIFY QUANTITY OF BUTTONS TO ACCOMMODATE NUMBER OF CONTROL ZONES. INCLUDE ENGRAVED NAMEPLATES TO IDENTIFY ZONES SERVED.
5	CAT 5 PATCH CABLE WITH RJ45 CONNECTORS.
6	277V VOLT LIGHTING CIRCUITS, SEE DRAWINGS FOR CIRCUIT NUMBERS.
7	OUTDOOR DIGITAL PHOTOSENSOR GR2400PCC12W0 MOUNT WHERE APPROVED BY ARCHITECT ON NORTHSIDE OF BUILDING.
8	2 #18
9	INDOOR GLOBAL PHOTOSENSORS #2W1/GR2400PCC3 FOR CONTROL OF SKYLIGHT DAYLIT AREAS. BASE BID CONTROL WITH PHOTOSENSORS, ALT BID MANUAL DEVICES. VERIFY QUANITY REQUIRED ON FLOOR PLANS.
10	LOCATE A SECOND RELAY PANEL ON THE MEZZANINE LEVEL.
11	LIGHTING RELAY REMOTE CONTROL PANEL CAT. NO. GR2416 LT INT 16NCL REMOTE DV/GR2416 LT ENC SM NE1.



2 / E401 CEILING OCCUPANCY SENSOR W/ TWO LEVELS LIGHTING

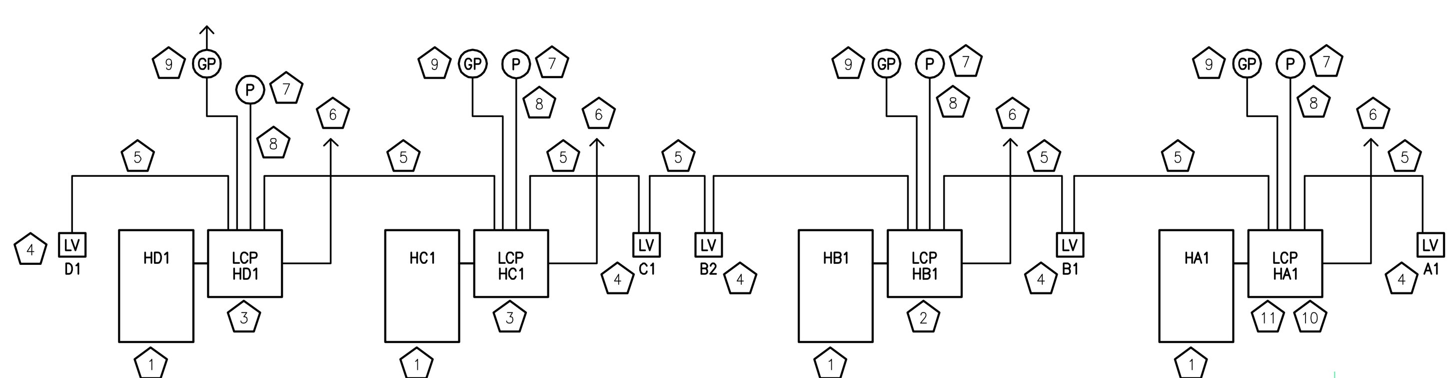
SCALE: N.T.S.



BETWEEN LIGHT FIXTURE LOCATIONS

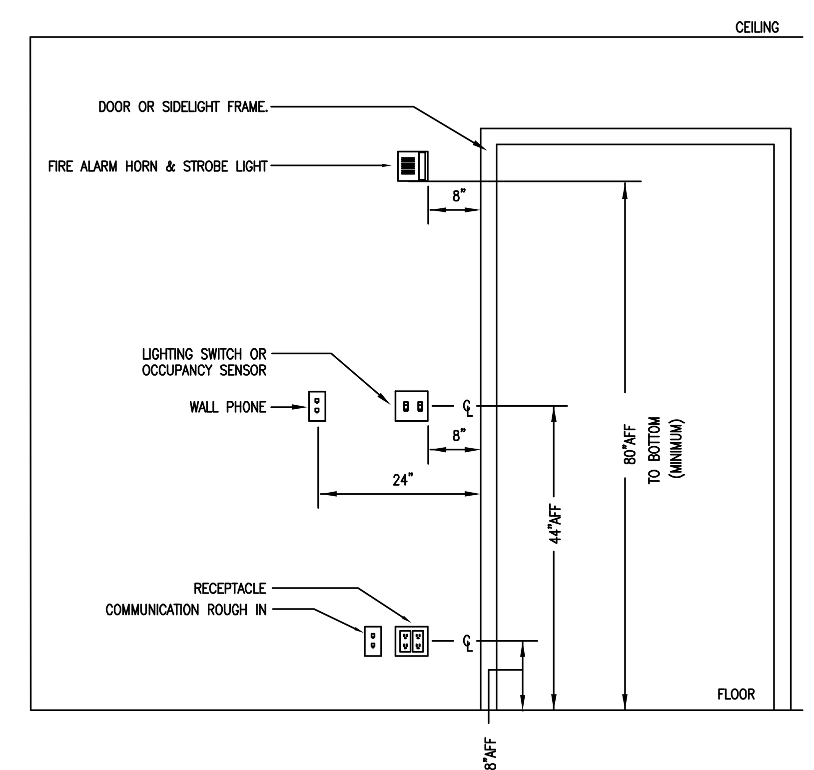
7 / E401 PAVILION LIGHTING, FIRE ALARM, DATA CONDUIT AND SUPPORT SYSTEM

SCALE: N.T.S.



5 / E401 LIGHTING CONTROL SYSTEM DIAGRAM

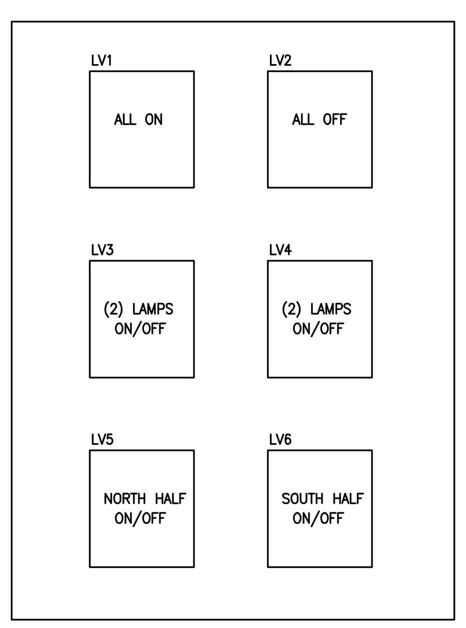
SCALE: N.T.S.



GENERAL NOTES:
NOT ALL DEVICES WILL BE PRESENT AT EACH ROOM ENTRY. THE INTENT OF THIS ELEVATION TO TO EMPHASIZE THAT A VERTICAL ALIGNMENT OF DEVICES IS REQUIRED.

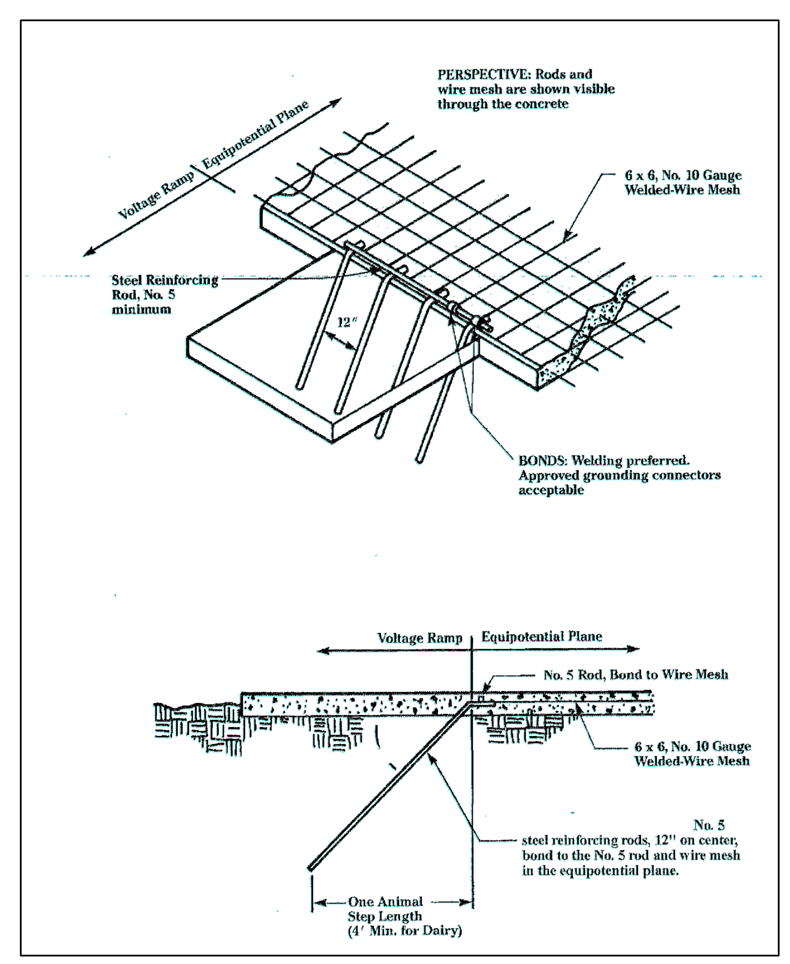
3 / E401 DEVICE MOUNTING DETAIL

SCALE: N.T.S.



8 / E401 LOW VOLTAGE SWITCH SCENES

SCALE: N.T.S.



9 / E401 MILKING PARLOR TRANSITION RAMP DETAIL

SCALE: N.T.S.

STRANG

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

STRANG INC.
6411 MINERAL POINT ROAD
MADISON, WI 53705-4395

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PROJECT TITLE

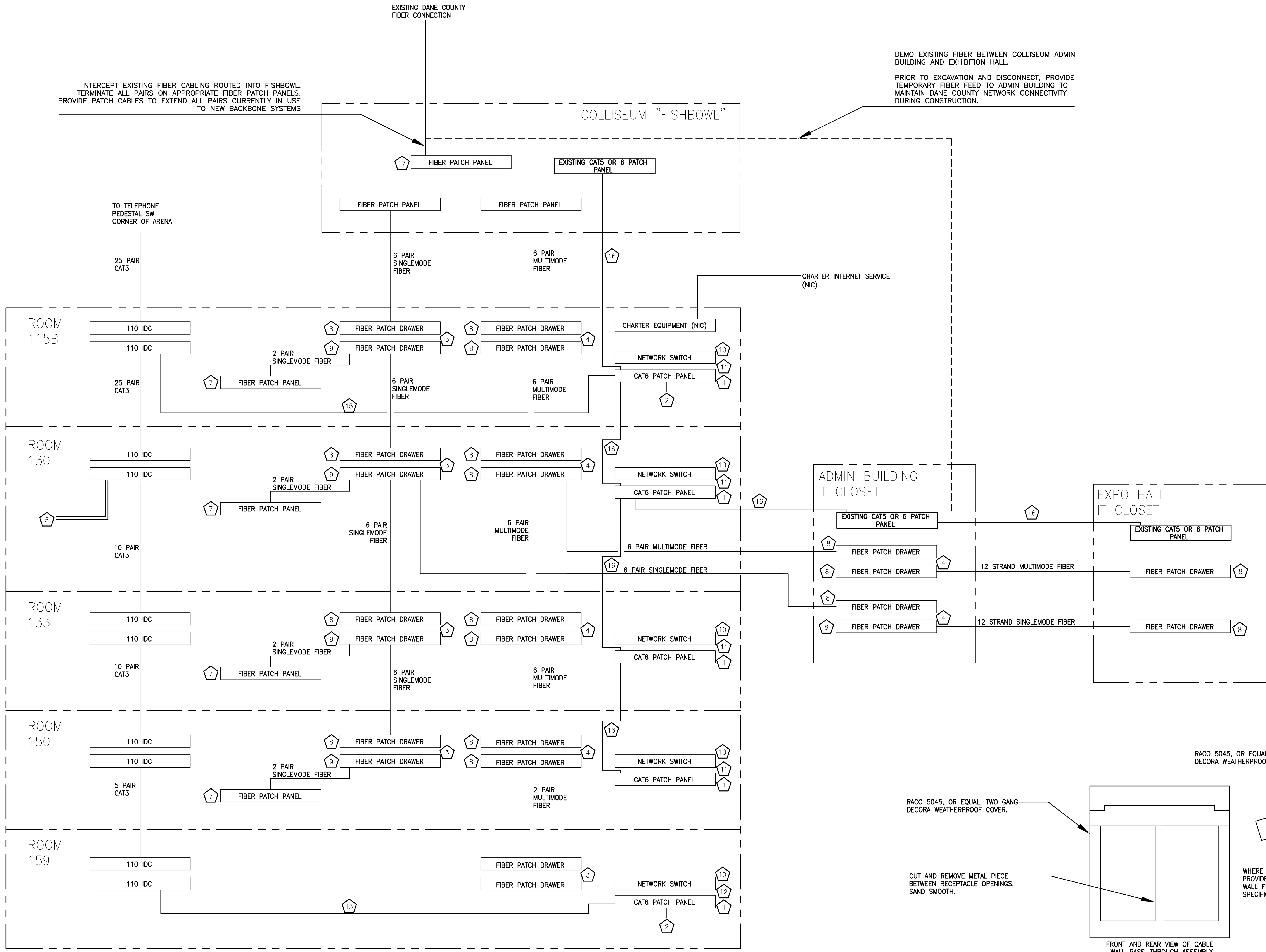
ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

ELECTRICAL DETAILS

SHEET NO.
E401



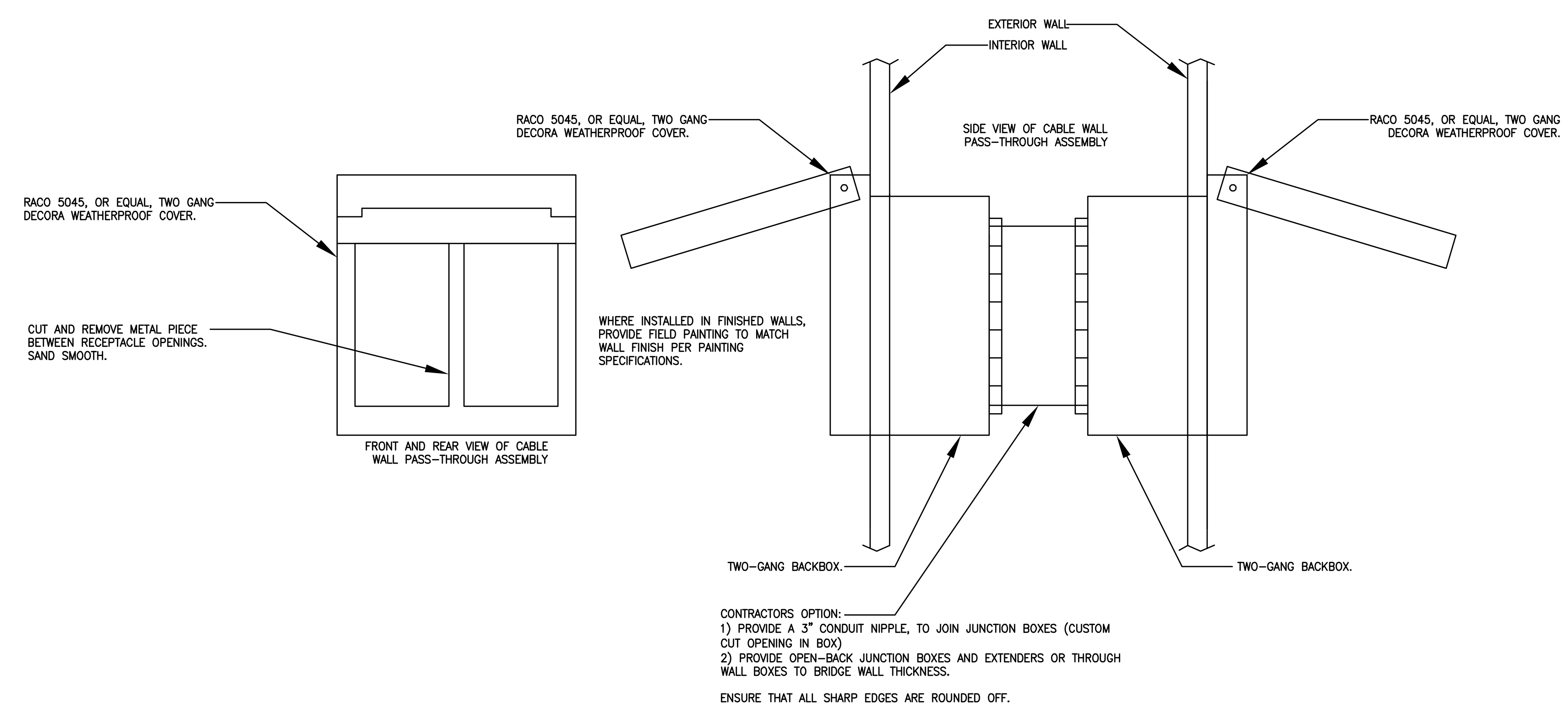
1
E402

IT RISER.

SCALE: NONE

	IT RISER–GENERAL NOTES
1	THIS DIAGRAM IS NOT INTENDED TO BE A FIELD WIRING DIAGRAM THAT INDICATES SPECIFIC WIRING AND CONNECTION REQUIREMENTS, DIAGRAM INDICATES GENERAL SYSTEM COMPONENTS AND ARRANGEMENT ONLY. COMPLETE SYSTEM INSTALLATION SHALL BE AS RECOMMENDED EIA/TIA AND ACCORDING TO SHOP DRAWINGS AND FIELD WIRING DIAGRAMS FURNISHED BY THE MANUFACTURERS
2	VERIFY ALL LOCATIONS FOR EQUIPMENT ON SITE WITH OWNER.
3	ACTIVE NETWORK EQUIPMENT, INCLUDING NETWORK SWITCHES, WIRELESS ACCESS POINTS (AND ASSOCIATED CONTROLLERS) AND CAT-6 CABLING AND CONDUIT TO WIRELESS ACCESS POINTS IS NOT IN CONTRACT. THESE ITEMS ARE INCLUDED IN AN ALLOWANCE CARRIED BY THE GENERAL CONTRACTOR.
4	ALL EQUIPMENT SHOWN SHALL BE MOUNTED IN EQUIPMENT RACKS SHOWN IN EACH ROOM. UNLESS OTHERWISE NOTED.

#	IT RISER–SPECIFIC NOTES
1	PATCH PANEL SHALL HAVE A MINIMUM OF 48 PORTS TO SUPPORT WIRELESS ACCESS POINTS AND EVENT-SPECIFIC HORIZONTAL NETWORK CABLING NOT IN CONTRACT. HARDWIRED DATA OUTLET WIRING, SHOWN ON PLANS, IS PART OF THIS QUANTITY (NOT IN ADDITION TO IT).
2	PATCH PANEL SHALL HAVE A MINIMUM OF 12 PORTS TO SUPPORT FUTURE HORIZONTAL NETWORK CABLING NOT IN CONTRACT. HARDWIRED DATA OUTLET WIRING, SHOWN ON PLANS, IS PART OF THIS QUANTITY (NOT IN ADDITION TO IT).
3	PROVIDE (3) DUPLEX FIBER PATCH CABLES
4	PROVIDE (6) DUPLEX FIBER PATCH CABLES.
5	2 PAIRS TO FIRE ALARM SYSTEM COMMUNICATOR
6	TO MAINTENANCE SHOP OFFICE PHONES
7	2 PORT (DUPLEX) MINIMUM, LOCATED IN WALL AV CABINET.
8	6 PORT (DUPLEX) MINIMUM
9	9 PORT (DUPLEX) MINIMUM
10	ACTIVE NETWORK EQUIPMENT NOT IN CONTRACT
11	PROVIDE (48) CAT6 PATCH CABLES
12	PROVIDE (3) CAT6 PATCH CABLES
13	PROVIDE (3) CAT3 110 IDC TO RJ45 PATCH CABLES FOR TELEPHONE CONNECTION TO OFFICES, VIA CAT6 PATCH PANEL. UTILIZE CAT6 CABLE TO THE OUTLETS AS SHOWN ON THE PLANS
14	CAT6 CABLING TO WIRED DATA OUTLETS. SEE PLANS FOR QUANTITY AND LOCATIONS.
15	PROVIDE (4) CAT3 110 IDC TO RJ45 PATCH CABLES FOR TELEPHONE CONNECTION TO OFFICES, VIA CAT6 PATCH PANEL UTILIZE CAT6 CABLE TO THE OUTLETS AS SHOWN ON THE PLANS.
16	(3) CAT6 CABLES (FOR THE USE OF THE MOBILE TELEVISION CONTRACTOR) OF A DIFFERENT COLOR THAN OTHER NETWORK CABLING FROM FISHBOWL. TERMINATE EACH END OF CABLE ON PATCH PANELS AS SHOWN.
17	IF OUTSIDE MODE FIBER, FOR DANE COUNTY NETWORKING IS ALREADY TERMINATED IN SUITABLE PATCH PANEL IN THIS AREA, A NEW PATCH PANEL/DRAWER IS NOT REQUIRED.



2
E402

A/V CABLE PASS THROUGH ASSEMBLY

SCALE: NONE

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MADISON, WI 53705-4395

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

ELECTRICAL DETAILS

SHEET NO.

E402

Panelboard: HA1

Panelboard:	HA1			Panel Source:	SWB A/B
Bus Ampacity	125	Volts	277/480	Feed (Top/Bottom)	
Branch Brkr Space	30	Phase	3	Feed-Thru Lugs	
MLO Amps	125	Wires	4	Load Fed	
MCB A/P		Surface		Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	35K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	29.9 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
GEN LTS	1	20/1	1,400			2,500			20/1	2	MEZZ LTS
OUTDOOR LTS	3	20/1		1,000			2,000		20/1	4	MEZZ LTS
GEN LTS	5	20/1			3,000			2,000	20/1	6	MEZZ LTS
GEN LTS	7	20/1	2,000			2,000			20/1	8	MEZZ LTS
LTS RM 117	9	20/1		2,000					20/1	10	SPARE
TRACTOR LTS	11	20/1			1,000				20/1	12	SPARE
LTS	13	20/1	1,000						20/1	14	SPARE
SPARE	15	20/1							20/1	16	SPARE
SPARE	17	20/1							20/1	18	SPARE
SPARE	19	20/1							20/1	20	SPARE
SPACE	21									22	SPACE
SPACE	23									24	SPACE
SPACE	25									26	SPACE
SPACE	27									28	SPACE
SPACE	29									30	SPACE
Total Lights			8,900	5,000	6,000		19,900				
Total Recpts											
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			8,900	5,000	6,000		19,900				
Total Panel											

Panelboard: LA1A

Panelboard:	LA1A			Panel Source:	SWB A/B
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	145.2 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
MAU-1	1	15/3	420			720			20/1	2	ROOF REC
|	3	|		420			720		20/1	4	MEZZ AREA
|	5	|			420			900	20/1	6	MEZZ AREA
EF-1	7	35/1	1,656			1,080			20/1	8	GEN REC
EWH-2	9	50/2		4,004			720		20/1	10	GEN REC
|	11	|			4,004			720	20/1	12	OFFICE REC
VAV-4	13	25/2	1,580			360			20/1	14	OFFICE REC
|	15	|		1,580			1,080		20/1	16	GEN REC
EWH-1A	17	50/2			4,004			720	20/1	18	BATHROOM 113
|	19	|	4,004			720			20/1	20	BATHROOM 114
EBB-4	21	25/2		1,000			720		20/1	22	GEN REC
|	23	|			1,000			1,000	20/1	24	WH-2
EBB-3	25	15/2	300			528			15/1	26	CP-2
|	27	|		300			300		15/2	28	EBB-5
VAV-1	29	20/1			804			300	|	30	|
VAV-2	31	20/1	804			1,000			25/2	32	EBB-6
EBB-2	33	20/2		600			1,000		|	34	|
|	35	|			600			500	20/2	36	EBB-7
EBB-1	37	20/2	600			500			|	38	|
|	39	|		600					20/1	40	SPARE
WATER SOFTNER	41	20/1			500				20/1	42	SPARE
Total Lights											
Total Recpts			3,408	3,240	3,340		9,988				
Total HVAC Blwrs			2,076	420	420		2,916				
Total HVAC A/C											
Total HVAC Htg			9,288	13,388	15,216		37,892				
Total HVAC			11,364	13,808	15,636		40,808				
Total MIsc					1,500		1,500				
Total Phases			14,772	17,048	20,476		52,296				
Total Panel											

Panelboard: LA1B

Panelboard:	LA1B			Panel Source:	
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA		Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
GUH-7	43	20/1	500						20/1	44	SPARE
EWH-1B	45	50/2		4,004					20/1	46	SPARE
|	47	|			4,004				20/1	48	SPARE
SPARE	49	20/2							20/2	50	SPARE
|	51	|							|	52	|
OVERHEAD DOOR	53	20/1			1,000				20/1	54	SPARE
SPACE	55									56	SPACE
SPACE	57									58	SPACE
SPACE	59									60	SPACE
SPACE	61									62	SPACE
SPACE	63									64	SPACE
SPACE	65									66	SPACE
SPACE	67									68	SPACE
SPACE	69									70	SPACE
SPACE	71									72	SPACE
SPACE	73									74	SPACE
SPACE	75									76	SPACE
SPACE	77									78	SPACE
SPACE	79									80	SPACE
SPACE	81									82	SPACE
SPACE	83									84	SPACE
Total Lights											
Total Recpts											
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg			500	4,004	4,004		8,508				
Total HVAC			500	4,004	4,004		8,508				
Total MIsc					1,000		1,000				
Total Phases			500	4,004	5,004		9,508				
Total Panel											

Panelboard: LA2

Panelboard:	LA2			Panel Source:	SWB A/B
Bus Ampacity	150	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	125	Surface		Sub-Feed Lugs	
Pnl Mfr		Recessed	YES	Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA		Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
GEN REC	1	20/1	540			1,800			20/1	2	HOOD
REGISTER	3	20/1		1,200			1,000		20/1	4	HOOD LTS
SODA DISPENSER	5	20/1			1,200			1,812	20/1	6	WARMER
REGISTER	7	20/1	1,200			1,572			20/1	8	FRYER/FREEZER
FRIDGE	9	20/1		1,056			1,000		20/1	10	FRIDGE
WARMER	11	20/1			1,716				20/1	12	SPARE
WARMER	13	20/1	1,716						20/1	14	SPARE
REGISTER	15	20/1		1,200					20/1	16	SPARE
SODA DISPENSER	17	20/1			1,200				20/1	18	SPARE
REGISTER	19	20/1	1,200						20/1	20	SPARE
LCD MONITOR	21	20/1		1,500					20/1	22	SPARE
LCD MONITOR	23	20/1			1,500				20/1	24	SPARE
SPARE	25	20/1								26	SPACE
SPARE	27	20/1								28	SPACE
SPARE	29	20/1								30	SPACE
SPARE	31	20/1								32	SPACE
SPARE	33	20/1								34	SPACE
SPARE	35	20/1								36	SPACE
SPACE	37									38	SPACE
SPACE	39									40	SPACE
SPACE	41									42	SPACE
Total Lights											
Total Recpts			8,028	6,956	7,428		22,412				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			8,028	6,956	7,428		22,412				
Total Panel											

Panelboard: HB1

Panelboard:	HB1			Panel Source:	SWB A/B
Bus Ampacity	125	Volts	277/480	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps	125	Wires	4	Load Fed	
MCB A/P		Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	35K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	57.4 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
LTS	1	20/1	3,360			2,530			20/1	2	OUTSIDE LTS
LTS	3	20/1		3,360			1,500		20/1	4	GEN LTS
LTS	5	20/1			3,360				20/1	6	SPARE
LTS	7	20/1	3,360						20/1	8	SPARE
LTS	9	20/1		3,360					20/1	10	SPARE
LTS	11	20/1			3,360				20/1	12	SPARE
LTS	13	20/1	3,360						20/1	14	SPARE
LTS	15	20/1		3,360					20/1	16	SPARE
LTS	17	20/1			3,360				20/1	18	SPARE
LTS	19	20/1	3,360						20/1	20	SPARE
SPARE	21	20/1							20/1	22	SPARE
MEZZ.LTS	23	20/1			550				20/1	24	SPARE
SPACE	25									26	SPACE
SPACE	27									28	SPACE
SPACE	29									30	SPACE
SPACE	31									32	SPACE
SPACE	33									34	SPACE
SPACE	35									36	SPACE
SPACE	37									38	SPACE
SPACE	39									40	SPACE
SPACE	41									42	SPACE
Total Lights			15,970	11,580	10,630		38,180				
Total Recpts											
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			15,970	11,580	10,630		38,180				
Total Panel											

Panelboard: LB1

Panelboard:	LB1			Panel Source:	SWB A/B
Bus Ampacity	225	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	175	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	101.5 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
GRH	1	20/1	336			336			20/1	2	GRH
GRV-1	3	25/1		1,392			336		20/1	4	GRH
GRH	5	20/1			336			1,152	25/1	6	GRV-2
REC	7	20/1	360			1,392			25/1	8	GRV-4
REC	9	20/1		540			168		20/1	10	GRH
REC	11	20/1			360			1,152	25/1	12	GRV-3
EF-2	13	25/1	1,176			1,872			30/2	14	SS-1
EF-3	15	25/1		1,176			1,872		|	16	|
REC	17	20/1			360			2,000	30/2	18	EWH-5
WH-1	19	20/1	1,500			2,000			|	20	|
SPARE	21	20/1					2,000		30/2	22	EWH-22
CP-1	23	15/1			528			2,000	|	24	|
EWH-4	25	30/2	2,000			696			15/1	26	SF-20
|	27	|		2,000					20/1	28	SPARE
SPARE	29	20/1							20/1	30	SPARE
Mezz Rec	31	20/1	720						20/1	32	SPARE
EWH-3	33	25/2		1,500					20/1	34	SPARE
|	35	|			1,500					36	SPACE
OVERHEAD DOOR	37	25/3	1,272							38	SPACE
OVERHEAD DOOR	39	|		1,272						40	SPACE
OVERHEAD DOOR	41	|			1,272					42	SPACE
Total Lights											
Total Recpts			1,080	540	720		2,340				
Total HVAC Blwrs			1,872	1,176			3,048				
Total HVAC A/C											
Total HVAC Htg			7,936	9,268	8,140		25,344				
Total HVAC			9,808	10,444	8,140		28,392				
Total MIsc			2,772	1,272	1,800		5,844				
Total Phases			13,660	12,256	10,660		36,576				
Total Panel											

Panelboard: LB2A

Panelboard:	LB2A			Panel Source:	SWB A/B
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	300	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	111.0 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	1	20/1	1,000			1,000			20/1	2	REC
REC	3	20/1		1,000			1,000		20/1	4	REC
REC	5	20/1			1,000			1,000	20/1	6	REC
REC	7	20/1	1,000			1,000			20/1	8	REC
REC	9	20/1		1,000			1,000		20/1	10	REC
REC	11	20/1			1,000			1,000	20/1	12	REC
REC	13	20/1	1,000			1,000			20/1	14	REC
REC	15	20/1		1,000			1,000		20/1	16	REC
REC	17	20/1			1,000			1,000	20/1	18	REC
REC	19	20/1	1,000			1,000			20/1	20	REC
REC	21	20/1		1,000			1,000		20/1	22	REC
REC	23	20/1			1,000			1,000	20/1	24	REC
REC	25	20/1	1,000			1,000			20/1	26	REC
REC	27	20/1		1,000			1,000		20/1	28	REC
REC	29	20/1			1,000			1,000	20/1	30	REC
REC	31	20/1	1,000			1,000			20/1	32	REC
REC	33	20/1		1,000			1,000		20/1	34	REC
REC	35	20/1			1,000			1,000	20/1	36	REC
REC	37	20/1	1,000			1,000			20/1	38	REC
REC	39	20/1		1,000			1,000		20/1	40	REC
REC	41	20/1			1,000			1,000	20/1	42	REC
Total Lights											
Total Recpts			24,000	23,000	22,000		69,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc					500		500				
Total Phases			24,000	23,000	22,500		69,500				
Total Panel											

Panelboard: LB2B

Panelboard:	LB2B			Panel Source:	
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	300	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA		Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	43	20/1	1,000			1,000			20/1	44	REC
REC	45	20/1		1,000			1,000		20/1	46	REC
REC	47	20/1			1,000			1,000	20/1	48	REC
REC	49	20/1	1,000			1,000			20/1	50	REC
REC	51	20/1		1,000			1,000		20/1	52	REC
REC	53	20/1			1,000			1,000	20/1	54	REC
REC	55	20/1	1,000			1,000			20/1	56	REC
REC	57	20/1		1,000			1,000		20/1	58	REC
REC	59	20/1			1,000			1,000	20/1	60	REC
REC	61	20/1	1,000			1,000			20/1	62	REC
REC	63	20/1		1,000					20/1	64	SPARE
REC	65	20/1			1,000				20/1	66	SPARE
REC	67	20/1	1,000						20/1	68	SPARE
REC	69	20/1		1,000					20/1	70	SPARE
REC	71	20/1			1,000				20/1	72	SPARE
REC	73	20/1	1,000						20/1	74	SPARE
REC	75	20/1		1,000					20/1	76	SPARE
WATER SOFTNER	77	20/1			500				20/1	78	SPARE
SPARE	79	20/1							20/1	80	SPARE
SPARE	81	20/1							20/1	82	SPARE
SPARE	83	20/1							20/1	84	SPARE
Total Lights											
Total Recpts			10,000	9,000	8,000		27,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc					500		500				
Total Phases			10,000	9,000	8,500		27,500				
Total Panel											

Panelboard: LB3A

Panelboard:	LB3A			Panel Source:	SWB A/B
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	300	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	97.2 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	1	20/1	1,000			1,000			20/1	2	REC
REC	3	20/1		1,000			1,000		20/1	4	REC
REC	5	20/1			1,000			1,000	20/1	6	REC
REC	7	20/1	1,000			1,000			20/1	8	REC
REC	9	20/1		1,000			1,000		20/1	10	REC
REC	11	20/1			1,000			1,000	20/1	12	REC
REC	13	20/1	1,000			1,000			20/1	14	REC
REC	15	20/1		1,000			1,000		20/1	16	REC
REC	17	20/1			1,000			1,000	20/1	18	REC
REC	19	20/1	1,000			1,000			20/1	20	REC
REC	21	20/1		1,000			1,000		20/1	22	REC
REC	23	20/1			1,000			1,000	20/1	24	REC
REC	25	20/1	1,000			1,000			20/1	26	REC
REC	27	20/1		1,000			1,000		20/1	28	REC
REC	29	20/1			1,000			1,000	20/1	30	REC
REC	31	20/1	1,000			1,000			20/1	32	REC
REC	33	20/1		1,000			1,000		20/1	34	REC
REC	35	20/1			1,000			1,000	20/1	36	REC
REC	37	20/1	1,000			1,000			20/1	38	REC
REC	39	20/1		1,000			1,000		20/1	40	REC
REC	41	20/1			1,000			1,000	20/1	42	REC
Total Lights											
Total Recpts			20,000	20,000	20,000		60,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			20,000	20,000	20,000		60,000				
Total Panel											

Panelboard: LB3B

Panelboard:	LB3B			Panel Source:	
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA		Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	43	20/1	1,000			1,000			20/1	44	REC
REC	45	20/1		1,000			1,000		20/1	46	REC
REC	47	20/1			1,000			1,000	20/1	48	REC
REC	49	20/1	1,000			1,000			20/1	50	REC
REC	51	20/1		1,000			1,000		20/1	52	REC
REC	53	20/1			1,000			1,000	20/1	54	REC
REC	55	20/1	1,000			1,000			20/1	56	REC
REC	57	20/1		1,000			1,000		20/1	58	REC
REC	59	20/1			1,000			1,000	20/1	60	REC
SPARE	61	20/1							20/1	62	SPARE
SPARE	63	20/1							20/1	64	SPARE
SPARE	65	20/1							20/1	66	SPARE
SPARE	67	20/1							20/1	68	SPARE
SPARE	69	20/1								70	SPACE
SPARE	71	20/1								72	SPACE
SPARE	73	20/1								74	SPACE
SPARE	75	20/1								76	SPACE
SPARE	77	20/1								78	SPACE
SPARE	79	20/1								80	SPACE
SPARE	81	20/1								82	SPACE
SPARE	83	20/1								84	SPACE
Total Lights											
Total Recpts			6,000	6,000	6,000		18,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			6,000	6,000	6,000		18,000				
Total Panel											

Panelboard: LB4A

Panelboard:	LB4A			Panel Source:	SWB A/B
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	300	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	86.0 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	1	20/1	1,000			1,000			20/1	2	REC
REC	3	20/1		1,000			1,000		20/1	4	REC
REC	5	20/1			1,000			1,000	20/1	6	REC
REC	7	20/1	1,000			1,000			20/1	8	REC
REC	9	20/1		1,000			1,000		20/1	10	REC
REC	11	20/1			1,000			1,000	20/1	12	REC
REC	13	20/1	1,000			1,000			20/1	14	REC
REC	15	20/1		1,000			1,000		20/1	16	REC
REC	17	20/1			1,000			1,000	20/1	18	REC
REC	19	20/1	1,000			1,000			20/1	20	REC
REC	21	20/1		1,000			1,000		20/1	22	REC
REC	23	20/1			1,000			1,000	20/1	24	REC
REC	25	20/1	1,000			1,000			20/1	26	REC
REC	27	20/1		1,000			1,000		20/1	28	REC
REC	29	20/1			1,000			1,000	20/1	30	REC
REC	31	20/1	1,000			1,000			20/1	32	REC
REC	33	20/1		1,000			1,000		20/1	34	REC
REC	35	20/1			1,000			1,000	20/1	36	REC
REC	37	20/1	1,000			1,000			20/1	38	REC
REC	39	20/1		1,000			1,000		20/1	40	REC
REC	41	20/1			1,000			1,000	20/1	42	REC
Total Lights											
Total Recpts			18,000	18,000	16,000		52,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			18,000	18,000	16,000		52,000				
Total Panel											

Panelboard: LB4B

Panelboard:	LB4B			Panel Source:	
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	300	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA		Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	43	20/1	1,000			1,000			20/1	44	REC
REC	45	20/1		1,000			1,000		20/1	46	REC
REC	47	20/1			1,000			1,000	20/1	48	REC
REC	49	20/1	1,000			1,000			20/1	50	REC
REC	51	20/1		1,000			1,000		20/1	52	REC
SPARE	53	20/1							20/1	54	SPARE
SPARE	55	20/1							20/1	56	SPARE
SPARE	57	20/1							20/1	58	SPARE
SPARE	59	20/1							20/1	60	SPARE
SPARE	61	20/1							20/1	62	SPARE
SPARE	63	20/1							20/1	64	SPARE
SPACE	65								20/1	66	SPARE
SPACE	67								20/1	68	SPARE
SPACE	69								20/1	70	SPARE
SPACE	71								20/1	72	SPARE
SPACE	73									74	SPACE
SPACE	75									76	SPACE
SPACE	77									78	SPACE
SPACE	79									80	SPACE
SPACE	81									82	SPACE
SPACE	83									84	SPACE
Total Lights											
Total Recpts			4,000	4,000	2,000		10,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			4,000	4,000	2,000		10,000				
Total Panel											

STRANG

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

STRANG INC.
6411 MINERAL POINT ROAD
MADISON, WI 53705-4395

T/ 608 276 9200
F/ 608 276 9204

DRAWING SET CD

FILE NAME 2013027_02-E501.DWG

REVISIONS

DRAWN KK

CHECKED AS

DATE 08-01-13

PROJECT NO. 2013027_02

PROJECT TITLE

ALLIANT ENERGY
CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

PANELBOARD
SCHEDULES

SHEET NO.

E501

Panelboard: LB5A

Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	300	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	86.5 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Panel Source: SWB A/B

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	1	20/1	1,000			1,000			20/1	2	REC
REC	3	20/1		1,000			1,000		20/1	4	REC
REC	5	20/1			1,000			1,000	20/1	6	REC
REC	7	20/1	1,000			1,000			20/1	8	REC
REC	9	20/1		1,000			1,000		20/1	10	REC
REC	11	20/1			1,000			1,000	20/1	12	REC
REC	13	20/1	1,000			1,000			20/1	14	REC
REC	15	20/1		1,000			1,000		20/1	16	REC
REC	17	20/1			1,000			1,000	20/1	18	REC
REC	19	20/1	1,000			1,000			20/1	20	REC
REC	21	20/1		1,000			1,000		20/1	22	REC
REC	23	20/1			1,000			1,000	20/1	24	REC
REC	25	20/1	1,000			1,000			20/1	26	REC
REC	27	20/1		1,000			1,000		20/1	28	REC
REC	29	20/1			1,000			1,000	20/1	30	REC
REC	31	20/1	1,000			1,000			20/1	32	REC
REC	33	20/1		1,000			1,000		20/1	34	REC
REC	35	20/1			1,000			1,000	20/1	36	REC
REC	37	20/1	1,000			1,000			20/1	38	REC
REC	39	20/1		1,000			1,000		20/1	40	REC
REC	41	20/1			1,000			1,000	20/1	42	REC

	A	B	C	Total
Total Lights				
Total Recpts	18,000	18,000	16,360	52,360
Total HVAC Blwrs				
Total HVAC A/C				
Total HVAC Htg				
Total HVAC				
Total MIsc				
Total Phases	18,000	18,000	16,360	52,360
Total Panel				

Panelboard: LB5B

Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA		Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Panel Source:

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	43	20/1	1,000			1,000			20/1	44	REC
REC	45	20/1		1,000			1,000		20/1	46	REC
REC	47	20/1			1,000			1,000	20/1	48	REC
REC	49	20/1	1,000			1,000			20/1	50	REC
REC	51	20/1		1,000			1,000		20/1	52	REC
REC	53	20/1			360				20/1	54	SPARE
SPARE	55	20/1							20/1	56	SPARE
SPARE	57	20/1							20/1	58	SPARE
SPARE	59	20/1							20/1	60	SPARE
SPARE	61	20/1							20/1	62	SPARE
SPARE	63	20/1							20/1	64	SPARE
SPARE	65	20/1							20/1	66	SPARE
SPARE	67	20/1								68	SPACE
SPARE	69	20/1								70	SPACE
SPARE	71	20/1								72	SPACE
SPACE	73									74	SPACE
SPACE	75									76	SPACE
SPACE	77									78	SPACE
SPACE	79									80	SPACE
SPACE	81									82	SPACE
SPACE	83									84	SPACE

	A	B	C	Total
Total Lights				
Total Recpts	4,000	4,000	2,360	10,360
Total HVAC Blwrs				
Total HVAC A/C				
Total HVAC Htg				
Total HVAC				
Total MIsc				
Total Phases	4,000	4,000	2,360	10,360
Total Panel				

Panelboard: ELEV

Bus Ampacity	100	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	18	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	70	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC		Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	7.5 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Panel Source: SWB A/B

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
LTS	1	20/1	320			696			20/1	2	CEF-1
LTS IN CAB	3	20/1		300			500		20/1	4	SP-1
REC	5	20/1			360					6	
REC	7	20/1	360							8	
	9									10	
	11									12	
	13									14	
	15									16	
	17									18	

	A	B	C	Total
Total Lights	320	300		620
Total Recpts	360		360	720
Total HVAC Blwrs	696	500		1,196
Total HVAC A/C				
Total HVAC Htg				
Total HVAC	696	500		1,196
Total MIsc				
Total Phases	1,376	800	360	2,536
Total Panel				

Panelboard: HC1

Bus Ampacity	125	Volts	277/480	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps	125	Wires	4	Load Fed	
MCB A/P		Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	35K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	64.0 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Panel Source: DP C

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
LTS	1	20/1	2,912			2,500			20/1	2	OUTSIDE LTS
LTS	3	20/1		3,360			1,500		20/1	4	GEN LTS
LTS	5	20/1			3,360			1,500	20/1	6	MILKING AREA
LTS	7	20/1	3,360						20/1	8	SPARE
LTS	9	20/1		3,360					20/1	10	SPARE
LTS	11	20/1			3,360				20/1	12	SPARE
LTS	13	20/1	3,360						20/1	14	SPARE
LTS	15	20/1		3,360					20/1	16	SPARE
LTS	17	20/1			3,360				20/1	18	SPARE
LTS	19	20/1	3,360						20/1	20	SPARE
LTS	21	20/1		3,360					20/1	22	SPARE
MEZZ. LTS	23	20/1			550				20/1	24	SPARE
SPACE	25									26	SPACE
SPACE	27									28	SPACE
SPACE	29									30	SPACE
SPACE	31									32	SPACE
SPACE	33									34	SPACE
SPACE	35									36	SPACE
SPACE	37									38	SPACE
SPACE	39									40	SPACE
SPACE	41									42	SPACE

	A	B	C	Total
Total Lights	15,492	14,940	12,130	42,562
Total Recpts				
Total HVAC Blwrs				
Total HVAC A/C				
Total HVAC Htg				
Total HVAC				
Total MIsc				
Total Phases	15,492	14,940	12,130	42,562
Total Panel				

Panelboard: LC1

Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	300	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	126.9 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Panel Source: DP C

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
GEN REC	1	20/1	1,080			540			20/1	2	OFFICE REC
GEN REC	3	20/1		360			900		20/1	4	BATHROOMS
SF-21	5	15/1			696			1,680	25/1	6	SS-4
EWH-23	7	30/2	2,000			1,250			20/2	8	WH-3
|	9	|		2,000			1,250		|	10	|
EWH-6	11	30/2			2,000			748	15/2	12	EWH-14
|	13	|	2,000			748			|	14	|
SS-2	15	30/2		1,872			2,000		30/2	16	EWH-10
|	17	|			1,872			2,000	|	18	|
OVERHEAD DOOR	19	25/3	1,272			2,000			30/2	20	EWH-11
	21	|		1,272			2,000		|	22	|
	23	|			1,272			2,000	30/2	24	EWH-12
SPARE	25	20/1				2,000			|	26	|
SPARE	27	20/1					1,176		25/1	28	EF-5
SPARE	29	20/1						2,000	30/2	30	EWH-13
MEZZ REC	31	20/1	720			2,000			|	32	|
SPACE	33						1,500		25/2	34	EWH-15
SPACE	35							1,500	|	36	|
SPACE	37								20/1	38	SPARE
SPACE	39								20/1	40	SPARE
SPACE	41								20/1	42	SPARE

	A	B	C	Total
Total Lights				
Total Recpts	3,612	2,532	1,272	7,416
Total HVAC Blwrs		1,176	696	1,872
Total HVAC A/C				
Total HVAC Htg	10,748	9,372	13,800	33,920
Total HVAC	10,748	10,548	14,496	35,792
Total MIsc	1,250	1,250		2,500
Total Phases	15,610	14,330	15,768	45,708
Total Panel				

Panelboard: LC2A

Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	118.0 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Panel Source: DP C

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	1	20/1	1,000			1,000			20/1	2	REC
REC	3	20/1		1,000			1,000		20/1	4	REC
REC	5	20/1			1,000			1,000	20/1	6	REC
REC	7	20/1	1,000			1,000			20/1	8	REC
REC	9	20/1		1,000			1,000		20/1	10	REC
REC	11	20/1			1,000			1,000	20/1	12	REC
REC	13	20/1	1,000			1,000			20/1	14	REC
REC	15	20/1		1,000			1,000		20/1	16	REC
REC	17	20/1			1,000			1,000	20/1	18	REC
REC	19	20/1	1,000			1,000			20/1	20	REC
REC	21	20/1		1,000			1,000		20/1	22	REC
REC	23	20/1			1,000			1,000	20/1	24	REC
REC	25	20/1	1,000			1,000			20/1	26	REC
REC	27	20/1		1,000			1,000		20/1	28	REC
REC	29	20/1			1,000			1,000	20/1	30	REC
REC	31	20/1	1,000			1,000			20/1	32	REC
REC	33	20/1		1,000			1,000		20/1	34	REC
REC	35	20/1			1,000			1,000	20/1	36	REC
REC	37	20/1	1,000			1,000			20/1	38	REC
REC	39	20/1		1,000			1,000		20/1	40	REC
REC	41	20/1			1,000			1,000	20/1	42	REC

	A	B	C	Total
Total Lights				
Total Recpts	26,000	25,000	24,000	75,000
Total HVAC Blwrs				
Total HVAC A/C				
Total HVAC Htg				
Total HVAC				
Total MIsc				
Total Phases	26,000	25,000	24,000	75,000
Total Panel				

Panelboard: LC2B

Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	59.7 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Panel Source: DP C

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	43	20/1	1,000			1,000			20/1	44	REC
REC	45	20/1		1,000			1,000		20/1	46	REC
REC	47	20/1			1,000			1,000	20/1	48	REC
REC	49	20/1	1,000			1,000			20/1	50	REC
REC	51	20/1		1,000			1,000		20/1	52	REC
REC	53	20/1			1,000			1,000	20/1	54	REC
REC	55	20/1	1,000			1,000			20/1	56	REC
REC	57	20/1		1,000			1,000		20/1	58	REC
REC	59	20/1			1,000			1,000	20/1	60	REC
REC	61	20/1	1,000			1,000			20/1	62	REC
REC	63	20/1		1,000			1,000		20/1	64	REC
REC	65	20/1			1,000			1,000	20/1	66	REC
REC	67	20/1	1,000			1,000			20/1	68	REC
SPARE	69	20/1					1,000		20/1	70	REC
SPARE	71	20/1						1,000	20/1	72	REC
SPARE	73	20/1				1,000			20/1	74	REC
SPARE	75	20/1					1,000		20/1	76	REC
SPARE	77	20/1						1,000	20/1	78	REC
SPARE	79	20/1				1,000			20/1	80	REC
SPARE	81	20/1					1,000		20/1	82	REC
SPARE	83	20/1							20/1	84	SPARE

	A	B	C	Total
Total Lights				
Total Recpts	12,000	11,000	10,000	33,000
Total HVAC Blwrs				
Total HVAC A/C				
Total HVAC Htg				
Total HVAC				
Total MIsc				
Total Phases	12,000	11,000	10,000	33,000
Total Panel				

Panelboard: LC3A

Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	144.3 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Panel Source: DP C

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	1	20/1	1,000			1,000			20/1	2	REC
REC	3	20/1		1,000			1,000		20/1	4	REC
REC	5	20/1			1,000			1,000	20/1	6	REC
REC	7	20/1	1,000			1,000			20/1	8	REC
REC	9	20/1		1,000			1,000		20/1	10	REC
REC	11	20/1			1,000			1,000	20/1	12	REC
REC	13	20/1	1,000			1,000			20/1	14	REC
REC	15	20/1		1,000			1,000		20/1	16	REC
REC	17	20/1			1,000			1,000	20/1	18	REC
REC	19	20/1	1,000			1,000			20/1	20	REC
REC	21	20/1		1,000			1,000		20/1	22	REC
REC	23	20/1			1,000			1,000	20/1	24	REC
REC	25	20/1	1,000			1,000			20/1	26	REC
REC	27	20/1		1,000			1,000		20/1	28	REC
REC	29	20/1			1,000			1,000	20/1	30	REC
REC	31	20/1	1,000			1,000			20/1	32	REC
REC	33	20/1		1,000			1,000		20/1	34	REC
REC	35	20/1			1,000			1,000	20/1	36	REC
REC	37	20/1	1,000			1,000			20/1	38	REC
REC	39	20/1		1,000			1,000		20/1	40	REC
REC	41	20/1			1,000			1,000	20/1	42	REC

	A	B	C	Total
Total Lights				
Total Recpts	32,000	31,000	31,000	94,000
Total HVAC Blwrs				
Total HVAC A/C				
Total HVAC Htg				
Total HVAC				
Total MIsc				
Total Phases	32,000	31,000	31,000	94,000
Total Panel				

Panelboard: LC3B

Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	86.0 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Panel Source: DP C

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	43	20/1	1,000			1,000			20/1	44	REC
REC	45	20/1		1,000			1,000		20/1	46	REC
REC	47	20/1			1,000			1,000	20/1	48	REC
REC	49	20/1	1,000			1,000			20/1	50	REC
REC	51	20/1		1,000			1,000		20/1	52	REC
REC	53	20/1			1,000			1,000	20/1	54	REC
REC	55	20/1	1,000			1,000			20/1	56	REC
REC	57	20/1		1,000			1,000		20/1	58	REC
REC	59	20/1			1,000			1,000	20/1	60	REC
REC	61	20/1	1,000			1,000			20/1	62	REC
REC	63	20/1		1,000			1,000		20/1	64	REC
REC	65	20/1			1,000			1,000	20/1	66	REC
REC	67	20/1	1,000			1,000			20/1	68	REC
REC	69	20/1		1,000			1,000		20/1	70	REC
REC	71	20/1			1,000			1,000	20/1	72	REC
REC	73	20/1	1,000			1,000			20/1	74	REC
REC	75	20/1		1,000			1,000		20/1	76	REC
REC	77	20/1			1,000			1,000	20/1	78	REC
REC	79	20/1	1,000			1,000			20/1	80	REC
REC	81	20/1		1,000			1,000		20/1	82	REC
REC	83	20/1			1,000			1,000	20/1	84	REC

	A	B	C	Total
Total Lights				
Total Recpts	18,000	17,000	17,000	52,000
Total HVAC Blwrs				
Total HVAC A/C				
Total HVAC Htg				
Total HVAC				
Total MIsc				
Total Phases	18,000	17,000	17,000	52,000
Total Panel				

Panelboard: LC3C

Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	27.8 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Panel Source: DP C

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	85	20/1	1,000			1,000			20/1	86	REC
REC	87	20/1		1,000			1,000		20/1	88	REC
REC	89	20/1			1,000			1,000	20/1	90	REC
REC	91	20/1	1,000						20/1	92	SPARE
REC	93	20/1		1,000					20/1	94	SPARE
REC	95	20/1			1,000				20/1	96	SPARE
REC	97	20/1	1,000						20/1	98	SPARE
SPARE	99	20/1							20/1	100	SPARE
SPARE	101	20/1							20/1	102	SPARE
SPARE	103	20/1								104	SPACE
SPARE	105	20/1								106	SPACE
SPARE	107	20/1								108	SPACE
SPARE	109	20/1								110	SPACE
SPARE	111	20/1								112	SPACE
SPARE	113	20/1								114	SPACE
SPACE	115									116	SPACE
SPACE	117									118	SPACE
SPACE	119									120	SPACE
SPACE	121									122	SPACE
SPACE	123									124	SPACE
SPACE	125									126	SPACE

	A	B	C	Total
Total Lights				
Total Recpts	4,000	3,000	3,000	10,000
Total HVAC Blwrs				
Total HVAC A/C				
Total HVAC Htg				
Total HVAC				
Total MIsc				
Total Phases	4,000	3,000	3,000	10,000
Total Panel				

Panelboard: LC4A

Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	300	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	105.5 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Panel Source: DP C

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	1	20/1	1,000			1,000			20/1	2	REC
REC	3	20/1		1,000			1,000		20/1	4	REC
REC	5	20/1			1,000			1,000	20/1	6	REC
REC	7	20/1	1,000			1,000			20/1	8	REC
REC	9	20/1		1,000			1,000		20/1	10	REC
REC	11	20/1			1,000			1,000	20/1	12	REC
REC	13	20/1	1,000			1,000			20/1	14	REC
REC	15	20/1		1,000			1,000		20/1	16	REC
REC	17	20/1			1,000			1,000	20/1	18	REC
REC	19	20/1	1,000			1,000			20/1	20	REC
REC	21	20/1		1,000			1,000		20/1	22	REC
REC	23	20/1			1,000			1,000	20/1	24	REC
REC	25	20/1	1,000			1,000			20/1	26	REC
REC	27	20/1		1,000			1,000		20/1	28	REC
REC	29	20/1			1,000			1,000	20/1	30	REC
REC	31	20/1	1,000			1,000			20/1	32	REC
REC	33	20/1		1,000			1,000		20/1	34	REC
REC	35	20/1			1,000			1,000	20/1	36	REC
REC	37	20/1	1,000			1,000			20/1	38	REC
REC	39	20/1		1,000			1,000		20/1	40	REC
REC	41	20/1			1,000			1,000	20/1	42	REC

	A	B	C	Total
Total Lights				
Total Recpts	22,000	22,000	22,000	66,000
Total HVAC Blwrs				
Total HVAC A/C				
Total HVAC Htg				
Total HVAC				
Total MIsc				
Total Phases	22,000	22,000	22,000	66,000
Total Panel				

Panelboard: LC4B

Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	300	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	47.2 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Panel Source: DP C

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
REC	43	20/1	1,000			1,000			20/1	44	REC
REC	45	20/1		1,000			1,000		20/1	46	REC
REC	47	20/1			1,000			1,000	20/1	48	REC
REC	49	20/1	1,000			1,000			20/1	50	REC
REC	51	20/1		1,000			1,000		20/1	52	REC
REC	53	20/1			1,000			1,000	20/1	54	REC
SPARE	55	20/1				1,000			20/1	56	REC
SPARE	57	20/1					1,000		20/1	58	REC
SPARE	59	20/1						1,000	20/1	60	REC
SPARE	61	20/1				1,000			20/1	62	REC
SPARE	63	20/1					1,000		20/1	64	REC
SPARE	65	20/1						1,000	20/1	66	REC
SPARE	67	20/1				1,000			20/1	68	REC
SPARE	69	20/1					1,000		20/1	70	REC
SPARE	71	20/1						1,000	20/1	72	REC
SPACE	73					1,000			20/1	74	REC
SPACE	75						1,000		20/1	76	REC
SPACE	77							1,000	20/1	78	REC
SPACE	79								20/1	80	SPARE
SPACE	81								20/1	82	SPARE
SPACE	83								20/1	84	SPARE

	A	B	C	Total
Total Lights				
Total Recpts	8,000	8,000	8,000	24,000
Total HVAC Blwrs				
Total HVAC A/C				
Total HVAC Htg				
Total HVAC				
Total MIsc				
Total Phases	8,000	8,000	8,000	24,000
Total Panel				

STRANG

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

STRANG INC.
6411 MINERAL POINT ROAD
MADISON, WI 53705-4395

T/ 608 276 9200
F/ 608 276 9204

DRAWING SET	CD
COPYRIGHT STRANG, INC.	2013
FILE NAME	2013027_02-E502.DWG
REVISIONS	
DRAWN	KK
CHECKED	AS
DATE	08-01-13
PROJECT NO.	2013027_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

PANELBOARD SCHEDULES

SHEET NO.

E502

Panelboard:	LC5A			Panel Source:	DP C
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	105.5 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be	Cct	Brkr		Left Phases			Right Phases		Brkr	Cct	Load to be
Fed	No	A/P	A	B	C	A	B	C	A/P	No	Fed
REC	1	20/1	1,000			1,000			20/1	2	REC
REC	3	20/1		1,000			1,000		20/1	4	REC
REC	5	20/1			1,000			1,000	20/1	6	REC
REC	7	20/1	1,000			1,000			20/1	8	REC
REC	9	20/1		1,000			1,000		20/1	10	REC
REC	11	20/1			1,000			1,000	20/1	12	REC
REC	13	20/1	1,000			1,000			20/1	14	REC
REC	15	20/1		1,000			1,000		20/1	16	REC
REC	17	20/1			1,000			1,000	20/1	18	REC
REC	19	20/1	1,000			1,000			20/1	20	REC
REC	21	20/1		1,000			1,000		20/1	22	REC
REC	23	20/1			1,000			1,000	20/1	24	REC
REC	25	20/1	1,000			1,000			20/1	26	REC
REC	27	20/1		1,000			1,000		20/1	28	REC
REC	29	20/1			1,000			1,000	20/1	30	REC
REC	31	20/1	1,000			1,000			20/1	32	REC
REC	33	20/1		1,000			1,000		20/1	34	REC
REC	35	20/1			1,000			1,000	20/1	36	REC
REC	37	20/1	1,000			1,000			20/1	38	REC
REC	39	20/1		1,000			1,000		20/1	40	REC
REC	41	20/1			1,000			1,000	20/1	42	REC
Total Lights											
Total Recpts			22,000	22,000	22,000		66,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			22,000	22,000	22,000		66,000				
Total Panel											

Panelboard:	LC5B			Panel Source:	DP C
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA		Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be	Cct	Brkr		Left Phases			Right Phases		Brkr	Cct	Load to be
Fed	No	A/P	A	B	C	A	B	C	A/P	No	Fed
REC	43	20/1	1,000			1,000			20/1	44	REC
REC	45	20/1		1,000			1,000		20/1	46	REC
REC	47	20/1			1,000			1,000	20/1	48	REC
REC	49	20/1	1,000			1,000			20/1	50	REC
REC	51	20/1		1,000			1,000		20/1	52	REC
REC	53	20/1			1,000			1,000	20/1	54	REC
SPARE	55	20/1				1,000			20/1	56	REC
SPARE	57	20/1					1,000		20/1	58	REC
SPARE	59	20/1						1,000	20/1	60	REC
SPARE	61	20/1				1,000			20/1	62	REC
SPARE	63	20/1					1,000		20/1	64	REC
SPARE	65	20/1						1,000	20/1	66	REC
SPARE	67	20/1				1,000			20/1	68	REC
SPARE	69	20/1					1,000		20/1	70	REC
SPARE	71	20/1						1,000	20/1	72	REC
SPACE	73					1,000			20/1	74	REC
SPACE	75						1,000		20/1	76	REC
SPACE	77							1,000	20/1	78	REC
SPACE	79								20/1	80	SPARE
SPACE	81								20/1	82	SPARE
SPACE	83								20/1	84	SPARE
Total Lights											
Total Recpts			8,000	8,000	8,000		24,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			8,000	8,000	8,000		24,000				
Total Panel											

Panelboard:	HD1			Panel Source:	SWB D,E,F
Bus Ampacity	125	Volts	277/480	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps	125	Wires	4	Load Fed	
MCB A/P		Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	35K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	74.9 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be	Cct	Brkr		Left Phases			Right Phases		Brkr	Cct	Load to be
Fed	No	A/P	A	B	C	A	B	C	A/P	No	Fed
LTS	1		3,360			2,500			20/1	2	OUTSIDE LTS
LTS	3	20/1		3,360			1,500		20/1	4	GEN LTS
LTS	5	20/1			3,360				20/1	6	SPARE
LTS	7	20/1	3,360			3,888			20/1	8	MAINTENCE LTS
LTS	9	20/1		3,360			3,888		20/1	10	MAINTENCE LTS
LTS	11	20/1			3,360			3,292	20/1	12	MAINTENCE LTS
LTS	13	20/1	3,360						20/1	14	SPARE
LTS	15	20/1		3,360					20/1	16	SPARE
LTS	17	20/1			3,360				20/1	18	SPARE
LTS	19	20/1	3,360						20/1	20	SPARE
STORAGE	21	20/1		550					20/1	22	SPARE
MEZZ. LTS	23	20/1			605				20/1	24	SPARE
SPACE	25								20/1	26	SPARE
SPACE	27								20/1	28	SPARE
SPACE	29								20/1	30	SPARE
SPACE	31									32	SPACE
SPACE	33									34	SPACE
SPACE	35									36	SPACE
SPACE	37									38	SPACE
SPACE	39									40	SPACE
SPACE	41									42	SPACE
Total Lights			19,828	16,018	13,977		49,823				
Total Recpts											
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			19,828	16,018	13,977		49,823				
Total Panel											

Panelboard:	LD1			Panel Source:	SWB D,E,F
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	300	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	129.4 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be	Cct	Brkr		Left Phases			Right Phases		Brkr	Cct	Load to be
Fed	No	A/P	A	B	C	A	B	C	A/P	No	Fed
GEN REC	1	20/1	720			1,080			20/1	2	STORAGE
GEN REC	3	20/1		360			900		20/1	4	STORAGE
SF-22	5	15/1			696			720	20/1	6	BATHROOM
EWH-7	7	30/2	2,000			720			20/1	8	BATHROOM
|	9	|		2,000			720		20/1	10	BATHROOM
SS-3	11	30/2			2,000			1,176	25/1	12	EF-6
|	13	|	2,000			2,000			30/2	14	EWH-16
EWH-24	15	30/2		2,000			2,000		|	16	|
|	17	|			2,000			2,000	30/2	18	EWH-17
OVERHEAD DOOR	19	25/3	1,272			2,000			|	20	|
|	21	|		1,272			750		20/2	22	EWH-20
|	23	|			1,272			750	|	24	|
SPACE	25					1,500			25/2	26	EWH-21
SPACE	27						1,500		|	28	|
SPACE	29							1,250	20/2	30	WH-4
MEZZ REC	31	20/1	720			1,250			|	32	|
SPARE	33	20/1					2,000		30/2	34	EWH-19
SPARE	35	20/1						2,000	|	36	|
SPACE	37					2,000			30/2	38	EWH-18
SPACE	39						2,000		|	40	|
SPACE	41								20/1	42	SPARE
Total Lights											
Total Recpts			3,240	1,980	720		5,940				
Total HVAC Blwrs					1,872		1,872				
Total HVAC A/C											
Total HVAC Htg			11,500	12,250	8,750		32,500				
Total HVAC			11,500	12,250	10,622		34,372				
Total MIsc			2,522	1,272	2,522		6,316				
Total Phases			17,262	15,502	13,864		46,628				
Total Panel											

Panelboard:	LD2A			Panel Source:	SWB D,E,F
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	123.5 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be	Cct	Brkr		Left Phases			Right Phases		Brkr	Cct	Load to be
Fed	No	A/P	A	B	C	A	B	C	A/P	No	Fed
REC	1	20/1	1,000			1,000			20/1	2	REC
REC	3	20/1		1,000			1,000		20/1	4	REC
REC	5	20/1			1,000			1,000	20/1	6	REC
REC	7	20/1	1,000			1,000			20/1	8	REC
REC	9	20/1		1,000			1,000		20/1	10	REC
REC	11	20/1			1,000			1,000	20/1	12	REC
REC	13	20/1	1,000			1,000			20/1	14	REC
REC	15	20/1		1,000			1,000		20/1	16	REC
REC	17	20/1			1,000			1,000	20/1	18	REC
REC	19	20/1	1,000			1,000			20/1	20	REC
REC	21	20/1		1,000			1,000		20/1	22	REC
REC	23	20/1			1,000			1,000	20/1	24	REC
REC	25	20/1	1,000			1,000			20/1	26	REC
REC	27	20/1		1,000			1,000		20/1	28	REC
REC	29	20/1			1,000			1,000	20/1	30	REC
REC	31	20/1	1,000			1,000			20/1	32	REC
REC	33	20/1		1,000			1,000		20/1	34	REC
REC	35	20/1			1,000			1,000	20/1	36	REC
REC	37	20/1	1,000			1,000			20/1	38	REC
REC	39	20/1		1,000			1,000		20/1	40	REC
REC	41	20/1			1,000			1,000	20/1	42	REC
Total Lights											
Total Recpts			27,000	27,000	25,000		79,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			27,000	27,000	25,000		79,000				
Total Panel											

Panelboard:	LD2B			Panel Source:	
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA		Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be	Cct	Brkr		Left Phases			Right Phases		Brkr	Cct	Load to be
Fed	No	A/P	A	B	C	A	B	C	A/P	No	Fed
REC	43	20/1	1,000			1,000			20/1	44	REC
REC	45	20/1		1,000			1,000		20/1	46	REC
REC	47	20/1			1,000			1,000	20/1	48	REC
REC	49	20/1	1,000			1,000			20/1	50	REC
REC	51	20/1		1,000			1,000		20/1	52	REC
REC	53	20/1			1,000			1,000	20/1	54	REC
REC	55	20/1	1,000			1,000			20/1	56	REC
REC	57	20/1		1,000			1,000		20/1	58	REC
REC	59	20/1			1,000			1,000	20/1	60	REC
REC	61	20/1	1,000			1,000			20/1	62	REC
REC	63	20/1		1,000			1,000		20/1	64	REC
REC	65	20/1			1,000			1,000	20/1	66	REC
REC	67	20/1	1,000			1,000			20/1	68	REC
REC	69	20/1		1,000			1,000		20/1	70	REC
REC	71	20/1			1,000			1,000	20/1	72	REC
REC	73	20/1	1,000			1,000			20/1	74	REC
REC	75	20/1		1,000			1,000		20/1	76	REC
SPARE	77	20/1						1,000	20/1	78	REC
SPARE	79	20/1				1,000			20/1	80	REC
SPARE	81	20/1					1,000		20/1	82	REC
SPARE	83	20/1							20/1	84	SPARE
Total Lights											
Total Recpts			13,000	13,000	11,000		37,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			13,000	13,000	11,000		37,000				
Total Panel											

Panelboard:	LD3A			Panel Source:	SWB D,E,F
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	97.2 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be	Cct	Brkr		Left Phases			Right Phases		Brkr	Cct	Load to be
Fed	No	A/P	A	B	C	A	B	C	A/P	No	Fed
REC	1	20/1	1,000			1,000			20/1	2	REC
REC	3	20/1		1,000			1,000		20/1	4	REC
REC	5	20/1			1,000			1,000	20/1	6	REC
REC	7	20/1	1,000			1,000			20/1	8	REC
REC	9	20/1		1,000			1,000		20/1	10	REC
REC	11	20/1			1,000			1,000	20/1	12	REC
REC	13	20/1	1,000			1,000			20/1	14	REC
REC	15	20/1		1,000			1,000		20/1	16	REC
REC	17	20/1			1,000			1,000	20/1	18	REC
REC	19	20/1	1,000			1,000			20/1	20	REC
REC	21	20/1		1,000			1,000		20/1	22	REC
REC	23	20/1			1,000			1,000	20/1	24	REC
REC	25	20/1	1,000			1,000			20/1	26	REC
REC	27	20/1		1,000			1,000		20/1	28	REC
REC	29	20/1			1,000			1,000	20/1	30	REC
REC	31	20/1	1,000			1,000			20/1	32	REC
REC	33	20/1		1,000			1,000		20/1	34	REC
REC	35	20/1			1,000			1,000	20/1	36	REC
REC	37	20/1	1,000			1,000			20/1	38	REC
REC	39	20/1		1,000			1,000		20/1	40	REC
REC	41	20/1			1,000			1,000	20/1	42	REC
Total Lights											
Total Recpts			20,000	20,000	20,000		60,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			20,000	20,000	20,000		60,000				
Total Panel											

Panelboard:	LD3B			Panel Source:	
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA		Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be	Cct	Brkr		Left Phases			Right Phases		Brkr	Cct	Load to be
Fed	No	A/P	A	B	C	A	B	C	A/P	No	Fed
REC	43	20/1	1,000			1,000			20/1	44	REC
REC	45	20/1		1,000			1,000		20/1	46	REC
REC	47	20/1			1,000			1,000	20/1	48	REC
REC	49	20/1	1,000			1,000			20/1	50	REC
REC	51	20/1		1,000			1,000		20/1	52	REC
REC	53	20/1			1,000			1,000	20/1	54	REC
REC	55	20/1	1,000			1,000			20/1	56	REC
REC	57	20/1		1,000			1,000		20/1	58	REC
REC	59	20/1			1,000			1,000	20/1	60	REC
SPARE	61	20/1							20/1	62	SPARE
SPARE	63	20/1							20/1	64	SPARE
SPARE	65	20/1							20/1	66	SPARE
SPARE	67	20/1							20/1	68	SPARE
SPARE	69	20/1							20/1	70	SPARE
SPARE	71	20/1							20/1	72	SPARE
SPARE	73	20/1								74	SPACE
SPARE	75	20/1								76	SPACE
SPARE	77	20/1								78	SPACE
SPACE	79									80	SPACE
SPACE	81									82	SPACE
SPACE	83									84	SPACE
Total Lights											
Total Recpts			6,000	6,000	6,000		18,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			6,000	6,000	6,000		18,000				
Total Panel											

Panelboard:	LD4A			Panel Source:	SWB D,E,F
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	105.5 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be	Cct	Brkr		Left Phases			Right Phases		Brkr	Cct	Load to be
Fed	No	A/P	A	B	C	A	B	C	A/P	No	Fed
REC	1	20/1	1,000			1,000			20/1	2	REC
REC	3	20/1		1,000			1,000		20/1	4	REC
REC	5	20/1			1,000			1,000	20/1	6	REC
REC	7	20/1	1,000			1,000			20/1	8	REC
REC	9	20/1		1,000			1,000		20/1	10	REC
REC	11	20/1			1,000			1,000	20/1	12	REC
REC	13	20/1	1,000			1,000			20/1	14	REC
REC	15	20/1		1,000			1,000		20/1	16	REC
REC	17	20/1			1,000			1,000	20/1	18	REC
REC	19	20/1	1,000			1,000			20/1	20	REC
REC	21	20/1		1,000			1,000		20/1	22	REC
REC	23	20/1			1,000			1,000	20/1	24	REC
REC	25	20/1	1,000			1,000			20/1	26	REC
REC	27	20/1		1,000			1,000		20/1	28	REC
REC	29	20/1			1,000			1,000	20/1	30	REC
REC	31	20/1	1,000			1,000			20/1	32	REC
REC	33	20/1		1,000			1,000		20/1	34	REC
REC	35	20/1			1,000			1,000	20/1	36	REC
REC	37	20/1	1,000			1,000			20/1	38	REC
REC	39	20/1		1,000			1,000		20/1	40	REC
REC	41	20/1			1,000			1,000	20/1	42	REC
Total Lights											
Total Recpts			22,000	22,000	22,000		66,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			22,000	22,000	22,000		66,000				
Total Panel											

Panelboard:	LD4B			Panel Source:	
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA		Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be	Cct	Brkr		Left Phases			Right Phases		Brkr	Cct	Load to be
Fed	No	A/P	A	B	C	A	B	C	A/P	No	Fed
REC	43	20/1	1,000			1,000			20/1	44	REC
REC	45	20/1		1,000			1,000		20/1	46	REC
REC	47	20/1			1,000			1,000	20/1	48	REC
REC	49	20/1	1,000			1,000			20/1	50	REC
REC	51	20/1		1,000			1,000		20/1	52	REC
REC	53	20/1			1,000			1,000	20/1	54	REC
SPARE	55	20/1				1,000			20/1	56	REC
SPARE	57	20/1					1,000		20/1	58	REC
SPARE	59	20/1						1,000	20/1	60	REC
SPARE	61	20/1				1,000			20/1	62	REC
SPARE	63	20/1					1,000		20/1	64	REC
SPARE	65	20/1						1,000	20/1	66	REC
SPARE	67	20/1				1,000			20/1	68	REC
SPARE	69	20/1					1,000		20/1	70	REC
SPARE	71	20/1						1,000	20/1	72	REC
SPACE	73					1,000			20/1	74	REC
SPACE	75						1,000		20/1	76	REC
SPACE	77							1,000	20/1	78	REC
SPACE	79								20/1	80	SPARE
SPACE	81								20/1	82	SPARE
SPACE	83								20/1	84	SPARE
Total Lights											
Total Recpts			8,000	8,000	8,000		24,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			8,000	8,000	8,000		24,000				
Total Panel											

Panelboard:	LD5A			Panel Source:	SWB D,E,F
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	105.5 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be	Cct	Brkr		Left Phases			Right Phases		Brkr	Cct	Load to be
Fed	No	A/P	A	B	C	A	B	C	A/P	No	Fed
REC	1	20/1	1,000			1,000			20/1	2	REC
REC	3	20/1		1,000			1,000		20/1	4	REC
REC	5	20/1			1,000			1,000	20/1	6	REC
REC	7	20/1	1,000			1,000			20/1	8	REC
REC	9	20/1		1,000			1,000		20/1	10	REC
REC	11	20/1			1,000			1,000	20/1	12	REC
REC	13	20/1	1,000			1,000			20/1	14	REC
REC	15	20/1		1,000			1,000		20/1	16	REC
REC	17	20/1			1,000			1,000	20/1	18	REC
REC	19	20/1	1,000			1,000			20/1	20	REC
REC	21	20/1		1,000			1,000		20/1	22	REC
REC	23	20/1			1,000			1,000	20/1	24	REC
REC	25	20/1	1,000			1,000			20/1	26	REC
REC	27	20/1		1,000			1,000		20/1	28	REC
REC	29	20/1			1,000			1,000	20/1	30	REC
REC	31	20/1	1,000			1,000			20/1	32	REC
REC	33	20/1		1,000			1,000		20/1	34	REC
REC	35	20/1			1,000			1,000	20/1	36	REC
REC	37	20/1	1,000			1,000			20/1	38	REC
REC	39	20/1		1,000			1,000		20/1	40	REC
REC	41	20/1			1,000			1,000	20/1	42	REC
Total Lights											
Total Recpts			22,000	22,000	22,000		66,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			22,000	22,000	22,000		66,000				
Total Panel											

Panelboard:	LD5B			Panel Source:	
Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	400	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA		Sub-Feed Brkr #2	
Pnl Depth				Load Fed	

Load to be	Cct	Brkr		Left Phases			Right Phases		Brkr	Cct	Load to be
Fed	No	A/P	A	B	C	A	B	C	A/P	No	Fed
REC	43	20/1	1,000			1,000			20/1	44	REC
REC	45	20/1		1,000			1,000		20/1	46	REC
REC	47	20/1			1,000			1,000	20/1	48	REC
REC	49	20/1	1,000			1,000			20/1	50	REC
REC	51	20/1		1,000			1,000		20/1	52	REC
REC	53	20/1			1,000			1,000	20/1	54	REC
SPARE	55	20/1				1,000			20/1	56	REC
SPARE	57	20/1					1,000		20/1	58	REC
SPARE	59	20/1						1,000	20/1	60	REC
SPARE	61	20/1				1,000			20/1	62	REC
SPARE	63	20/1					1,000		20/1	64	REC
SPARE	65	20/1						1,000	20/1	66	REC
SPARE	67	20/1				1,000			20/1	68	REC
SPARE	69	20/1					1,000		20/1	70	REC
SPARE	71	20/1						1,000	20/1	72	REC
SPACE	73					1,000			20/1	74	REC
SPACE	75						1,000		20/1	76	REC
SPACE	77							1,000	20/1	78	REC
SPACE	79								20/1	80	SPARE
SPACE	81								20/1	82	SPARE
SPACE	83								20/1	84	SPARE
Total Lights											
Total Recpts			8,000	8,000	8,000		24,000				
Total HVAC Blwrs											
Total HVAC A/C											
Total HVAC Htg											
Total HVAC											
Total MIsc											
Total Phases			8,000	8,000	8,000		24,000				
Total Panel											

STRANG

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

STRANG INC.
6411 MINERAL POINT ROAD
MADISON, WI 53705-4395

T/ 608 276 9200
F/ 608 276 9204

DRAWING SET	CD
COPYRIGHT STRANG, INC.	2013
FILE NAME	2013027_02-E503.DWG
REVISIONS	
DRAWN	KK
CHECKED	AS
DATE	08-01-13
PROJECT NO.	2013027_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

PANELBOARD SCHEDULES

SHEET NO.

E503

Panelboard LE

Bus Ampacity	400A	Volts	120/208	Feed (Top/Bottom)	Determined by EC
Branch Brkr Space	84	Phase	3	AIC RATING	22,000
MLO Amps		Wires	4		
MCB A/P	400/3P	Surface	YES	Panel Source:	TRANSFORMER TE

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
SPARE	1	20/1				12,744			150/3	2	Panel LE1
SPARE	3	20/1					14,704		-	4	-
SPARE	5	20/1						17,740	-	6	-
SPARE	7	20/1				10,784			150/3	8	Panel LE2
SPARE	9	20/1					13,976		-	10	-
SPARE	11	20/1						11,064	-	12	-
SPARE	13	20/1								14	SPACE
SPARE	15	20/1								16	SPACE
SPARE	17	20/1								18	SPACE
SPARE	19	20/1	528							20	SPACE
WH-1	21	20/2		1,250						22	SPACE
WH-1	23	-			1,250					24	SPACE
CP-2	25	20/1								26	SPACE
F-1	27	20/1		1,200						28	SPACE
FIRE ALARM PANEL	29	20/1			500					30	SPACE
GUH-1, 2, 4	31	20/1	928			500			20/1	32	RECEPS
GUH-5,6	33	20/1		700			500		20/1	34	RECEPS
GUH-3	35	20/1			1,176			500	20/1	36	RECEPS
EF-8	37	20/1	696			500			20/1	38	RECEPS
EF-9	39	15/3		900			1,440		20/1	40	RECEPS
-	41	-			900			1,800	20/1	42	RECEPS
-	43	-	900			540			20/1	44	RECEPS
ACCU-1	45	25/2		1,622			180		20/1	46	RECEPS
-	47	-			1,622					48	SPACE
RECEP	49	20/1	180							50	SPACE
OH DOOR	51	20/1		1,156						52	SPACE
OH DOOR	53	20/1			1,156					54	SPACE
OH DOOR	55	20/1	1,156							56	SPACE
OH DOOR	57	20/1		1,156						58	SPACE
OH DOOR	59	20/1			1,156					60	SPACE
OH DOOR	61	20/1	1,156							62	SPACE
OS-1 ALARM	63	20/1		100						64	SPACE
MAU-3	65	20/1			864					66	SPACE
SPARE	67	20/1								68	SPACE
SPARE	69	20/1								70	SPACE
SPARE	71	20/1								72	SPACE
SPARE	73	20/1								74	SPACE
SPARE	75	20/1								76	SPACE
SPARE	77	20/1								78	SPACE
SPARE	79	20/1								80	SPACE
SPARE	81	20/1								82	SPACE
SPARE	83	20/1								84	SPACE

Panelboard LE1

Bus Ampacity	150	Volts	120/208	Feed (Top/Bottom)	Determined by EC
Branch Brkr Space	72	Phase	3	AIC RATING	10,000
MLO Amps		Wires	4		
MCB A/P	150	Surface	YES	Panel Source:	Panel LE

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
RECEPS	1	20/1	360			1,920			20/3	2	AIR COMPRESSOR
RECEPS	3	20/1		360			1,920		-	4	-
RECEPS	5	20/1			360			1,920	-	6	-
RECEPS	7	20/1	360			1,000			20/1	8	RECEP
RECEPS	9	20/1		360			1,000		30/1	10	HOIST
RECEPS	11	20/1			900			1,000	-	12	-
AIR COMPRESSOR	13	20/3				200			20/1	14	RECEP
-	15	-					200		20/1	16	RECEP
-	17	-						200	20/1	18	RECEP
RECEPS	19	20/1	360			200			20/1	20	RECEP
RECEPS	21	20/1		360			200		20/1	22	RECEP
RECEPS	23	20/1			360			4,160	50/2	24	WELDER
RECEPS	25	20/1	360			4,160			-	26	
RECEPS	27	20/1		360			4,160		50/2	28	WELDER
RECEPS	29	20/1			360			4,160	-	30	
RECEPS	31	20/1	360			1,664			20/2	32	IRON WORKER
RECEPS	33	20/1		360			1,664		-	34	-
RECEPS	35	20/1			360			200	20/1	36	RECEP
RECEPS	37	20/1	360			180			20/1	38	RECEP
RECEPS	39	20/1		360			180		20/1	40	RECEP
RECEPS	41	20/1			360			180	20/1	42	RECEP
RECEPS	43	20/1	360			180			20/1	44	RECEP
RECEPS	45	20/1		360			2,500		20/1	46	WASHER RECEP
RECEPS	47	20/1			360			2,500	20/1	48	-
RECEPS	49	20/1	360						20/1	50	SPARE
RECEPS	51	20/1		360					20/1	52	SPARE
RECEPS	53	20/1			360				20/1	54	SPARE
RECEPS	55	20/1	360						20/1	56	SPARE
SPARE	57	20/1							20/1	58	SPARE
SPARE	59	20/1							20/1	60	SPARE
SPARE	61	20/1							20/1	62	SPARE
SPARE	63	20/1							20/1	64	SPARE
SPARE	65	20/1							20/1	66	SPARE
SPARE	67	20/1							20/1	68	SPARE
SPARE	69	20/1							20/1	70	SPARE
SPARE	71	20/1							20/1	72	SPARE

Panelboard LE2

Bus Ampacity	150	Volts	120/208	Feed (Top/Bottom)	Determined by EC
Branch Brkr Space	42	Phase	3	AIC RATING	10,000
MLO Amps		Wires	4		
MCB A/P	150	Surface	YES	Panel Source:	Panel LE

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
RECEP	1	20/1	360			4,160			50/2	2	WELDER RECEP
RECEP	3	20/1		360			4,160		-	4	-
RECEP	5	20/1			360			1,248	15/2	6	6-15R RECEP
RECEP	7	20/1	360			1,248			-	8	
RECEP	9	20/1		360			1,248		15/2	10	6-15R RECEP
RECEP	11	20/1			360			1,248	-	12	
RECEP	13	20/1	360			1,248			15/2	14	6-15R RECEP
RECEP	15	20/1		360			1,248		-	16	
RECEP	17	20/1			360			1,248	15/2	18	6-15R RECEP
RECEP	19	20/1	360			1,248			-	20	
6-15R RECEP	21	15/2		1,248			1,248		15/2	22	6-15R RECEP
-	23	-			1,248			1,248	-	24	-
RECEP	25	20/1	360			360			20/1	26	RECEP
6-15R RECEP	27	15/2		1,248			1,248		15/1	28	6-15R RECEP
-	29	-			1,248			1,248	-	30	-
RECEP	31	20/1	360			360			20/1	32	RECEP
6-15R RECEP	33	20/2		1,248					20/1	34	SPARE
-	35	-			1,248				20/1	36	SPARE
SPARE	37	20/1							20/1	38	SPARE
SPARE	39	20/1							20/1	40	SPARE
SPARE	41	20/1							20/1	42	SPARE
SPARE	43	20/1							20/1	44	SPARE
SPARE	45	20/1							20/1	46	SPARE
SPARE	47	20/1							20/1	48	SPARE
SPARE	49	20/1							20/1	50	SPARE
SPARE	51	20/1							20/1	52	SPARE
SPARE	53	20/1							20/1	54	SPARE

Panelboard: LC6A

Bus Ampacity	600	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	600	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	392.2 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	
				Panel Source:	DP C

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
Vacuum Pump	1	60/3	5,500			1,440			15/1	2	WH-5
	3			5,500			1,440		15/1	4	WH-6
	5				5,500			1,440	15/1	6	WH-7
Vacuum Pump	7	50/3	3,200			1,440			20/1	8	GEN REC
	9			3,200			1,200		20/1	10	COMPRESSOR
	11				3,200			1,200	20/1	12	COMPRESSOR
Computer	13	20/1	1,000			1,664			20/2	14	MASTER CTRL PNL
EEV Ctrls	15	15/2		520			1,664			16	
	17				520			800	15/2	18	PWR SUPPLY
EEV Ctrls	19	15/2	520			800				20	
	21			520			915		25/2	22	EF-7A
Condensing	23	50/3			3,310			915		24	
	25		3,310			915			25/2	26	EF-7B
	27			3,310			915			28	
Condensing	29	50/3			3,310			500	20/1	30	GUH-8
	31		3,310						20/1	32	SPARE
	33			3,310					20/1	34	SPARE
Chiller	35	90/3			6,600				20/1	36	SPARE
	37		6,600						20/1	38	SPARE
	39			6,600					20/1	40	SPARE
SPARE	41	20/1							20/1	42	SPARE

	A	B	C	Total
Total Lights				
Total Recpts			1,440	1,440
Total HVAC Blwrs	1,656	500		2,156
Total HVAC A/C				
Total HVAC Htg				
Total HVAC	1,656	500		2,156
Total MIsc	48,249	47,594	41,845	137,688
Total Phases	49,905	48,094	43,285	141,284
Total Panel				

Panelboard: LC6B

Bus Ampacity	600	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	600	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA		Sub-Feed Brkr #2	
Pnl Depth				Load Fed	
				Panel Source:	DP C

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
GLYCOL CHILLER	43	40/3	3,600			1,250			15/2	44	GLACIER CTRL
	45			3,600			1,250			46	
	47				3,600			1,250	15/2	48	GLACIER CTRL
GLYCOL CHILLER	49	40/3	3,600			1,250				50	
	51			3,600			1,200		15/1	52	TEMP RECORDER
	53				3,600			100	15/1	54	SMART DAIRY CTRL
PIPELINE WASHER	55	15/2	1,250			1,600			20/2	56	MILK TRUCK
	57			1,250			1,600			58	
MILK PUMP CTRL	59	15/3			500			5,500	60/3	60	VAC PUMP CTRL
	61		500			5,500				62	
	63			500			5,500			64	
SPACE	65							720	20/1	66	GEN REC
SPACE	67					1,656			35/1	68	SF-23
SPACE	69						500		20/1	70	GUH-10
SPACE	71							720	20/1	72	GEN REC
SPACE	73									74	SPACE
SPACE	75									76	SPACE
SPACE	77									78	SPACE
SPACE	79									80	SPACE
SPACE	81									82	SPACE
SPACE	83									84	SPACE

	A	B	C	Total
Total Lights				
Total Recpts			1,440	1,440
Total HVAC Blwrs	1,656	500		2,156
Total HVAC A/C				
Total HVAC Htg				
Total HVAC	1,656	500		2,156
Total MIsc	18,550	18,500	14,550	51,600
Total Phases	20,206	19,000	15,990	55,196
Total Panel				

Panelboard: LC7

Bus Ampacity	400	Volts	120/208	Feed (Top/Bottom)	
Branch Brkr Space	42	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	300	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	104.3 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	
				Panel Source:	SWB C

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
GEN REC	1	20/1	720			1,716			20/1	2	WARMER
BAG N BOX	3	20/1		1,800			1,056		20/1	4	FRIDGE
EF-4	5	35/1			1,656			1,716	20/1	6	WARMER
ICE MACH.	7	20/2	1,477			1,200			20/1	8	REGISTER
	9			1,477			1,200		20/1	10	SODA DISPENSER
SF-4	11	35/1			1,656			1,200	20/1	12	REGISTER
SS-5	13	40/2	2,704			1,500			20/1	14	LCD MONITOR
	15			2,704			1,584		20/1	16	FRIDGE
EWH-8	17	25/2			1,500			2,340	30/2	18	COMBO OVEN
	19		1,500			2,340				20	
EWH-9	21	25/2		1,500			816		20/1	22	FREEZER/FRYER
	23				1,500			1,000	20/1	24	HOOD LTS
SPARE	25	20/1				1,800			20/1	26	HOOD
SPARE	27	20/1					1,812		20/1	28	WARMER
SPARE	29	20/1						912	20/1	30	FREEZER
SPARE	31	20/1				1,200			20/1	32	REGISTER
SPACE	33						1,200		20/1	34	SODA DISPENSER
SPACE	35							1,200	20/1	36	REGISTER
SPACE	37					1,500			20/1	38	LCD MONITOR
SPACE	39								20/1	40	SPARE
SPACE	41								20/1	42	SPARE

	A	B	C	Total
Total Lights				
Total Recpts	11,976	9,468	8,368	29,812
Total HVAC Blwrs			3,312	3,312
Total HVAC A/C				
Total HVAC Htg	4,204	4,204	3,000	11,408
Total HVAC	4,204	4,204	6,312	14,720
Total MIsc	1,477	1,477		2,954
Total Phases	17,657	15,149	14,680	47,486
Total Panel				

Panelboard: HEM-B

Bus Ampacity	100	Volts	277/480	Feed (Top/Bottom)	
Branch Brkr Space	18	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	50	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	21.0 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	
				Panel Source:	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
MEZZ AREA	1	20/1	4,500			2,300			20/1	2	PAV. B LTS
PREF. LTS	3	20/1		4,500						4	SPACE
MEZZ. B LTS	5	20/1			256					6	SPACE
LEM-B	7	30/3	1,000							8	SPACE
	9			1,000						10	SPACE
	11				1,000					12	SPACE
SPARE	13	20/1								14	SPACE
SPARE	15	20/1								16	SPACE
SPARE	17	20/1								18	SPACE
	19									20	
	21									22	
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	

	A	B	C	Total
Total Lights	6,800	4,500	256	11,556
Total Recpts				
Total HVAC Blwrs				
Total HVAC A/C				
Total HVAC Htg				
Total HVAC				
Total MIsc	1,000	1,000	1,000	3,000
Total Phases	7,800	5,500	1,256	14,556
Total Panel				

Panelboard: HEM-C

Bus Ampacity	100	Volts	277/480	Feed (Top/Bottom)	
Branch Brkr Space	18	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	50	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	7.5 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	
				Panel Source:	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
SPARE	1	20/1				2,300			20/1	2	PAV. C LTS
SPARE	3	20/1								4	SPACE
MEZZ. C LTS	5	20/1			300					6	SPACE
LEM-C	7	30/3	1,000							8	SPACE
	9			1,000						10	SPACE
	11				1,000					12	SPACE
SPARE	13	20/1								14	SPACE
SPARE	15	20/1								16	SPACE
SPARE	17	20/1								18	SPACE
	19									20	
	21									22	
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	

	A	B	C	Total
Total Lights	2,300		300	2,600
Total Recpts				
Total HVAC Blwrs				
Total HVAC A/C				
Total HVAC Htg				
Total HVAC				
Total MIsc	1,000	1,000	1,000	3,000
Total Phases	3,300	1,000	1,300	5,600
Total Panel				

Panelboard: HEM-D

Bus Ampacity	100	Volts	277/480	Feed (Top/Bottom)	
Branch Brkr Space	18	Phase	3	Feed-Thru Lugs	
MLO Amps		Wires	4	Load Fed	
MCB A/P	50	Surface	YES	Sub-Feed Lugs	
Pnl Mfr		Recessed		Load Fed	
Pnl Type		AIC	22K	Sub-Feed Brkr #1	
Pnl Height				Load Fed	
Pnl Width		Pnl MCA	14.7 A	Sub-Feed Brkr #2	
Pnl Depth				Load Fed	
				Panel Source:	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
MAINT. SHOP	1	20/1	4,500			2,300			20/1	2	PAV. D LTS
STORAGE SHED	3	20/1		300						4	SPACE
MEZZ AREA D	5	20/1			300					6	SPACE
LEM-D	7	30/3	1,000							8	SPACE
	9			1,000						10	SPACE
	11				1,000					12	SPACE
SPARE	13	20/1								14	SPACE
SPARE	15	20/1								16	SPACE
SPARE	17	20/1								18	SPACE
	19									20	
	21									22	
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	

	A	B	C	Total
Total Lights	6,800	300	300	7,400
Total Recpts				
Total HVAC Blwrs				
Total HVAC A/C				
Total HVAC Htg				
Total HVAC				
Total MIsc	1,000	1,000	1,000	3,000
Total Phases	7,800	1,300	1,300	10,400
Total Panel				

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STRANG INC.
6411 MINERAL POINT ROAD
MADISON, WI 53705-4395

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FILE NAME: 2013027_02-E504.DWG

REVISIONS

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DATE: 08-01-13

PROJECT NO.: 2013027_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

PANELBOARD SCHEDULES

SHEET NO.

E504

MOTOR SCHEDULE

MECH. EQUIP. NO.	EQUIPMENT	LOCATION ROOM NUMBER	FLA/A/W	MCA	MOCP	HP	VOLT	PH	STARTER BY MC/PC/EC	DISCONNECT BY MC/PC/EC	CONTROL WIRING BY MC/PC/EC	REMARKS
ERV-1	ENERGY RECOVERY VENTILATOR	PREFUNCTION RESTROOM	4.8FLA	10.8		(2)1.5	460	3	MC	MC	MC	
ERV-2	ENERGY RECOVERY VENTILATOR	RTU 1,2 EVENT VENTILATION	22FLA	24.8	40	(2)7.5	460	3	MC	MC	MC	
RTU-1	ROOFTOP UNIT	1ST FLR PREFUNCTION		70	90		460	3	MC	MC	MC	4
RTU-2	ROOFTOP UNIT	MEZZ. PREFUNCTION		80	100		460	3	MC	MC	MC	
MAU-1	MAKEUP AIR UNIT	PREFUNCTION ROOF				3/4	208	3	MC	MC	MC	4
MAU-2	MAKEUP AIR UNIT	BLDG 1 FAN MEZZ.				80	460	3	MC	MC	MC	
MAU-3	MAKEUP AIR UNIT	WASH BAY 151				1/3	120	1	MC	EC	MC	
SS-1	SPLIT SYSTEM	130 TELE/DATA		18	30		208	1	MC	EC	MC	
SS-2	SPLIT SYSTEM	133 TELE/DATA		18	30		208	1	MC	EC	MC	
SS-3	SPLIT SYSTEM	150 TELE/DATA		18	30		208	1	MC	EC	MC	
SS-4	SPLIT SYSTEM	139 OFFICE		14	15		120	1	MC	EC	MC	
SS-5	SPLIT SYSTEM	143 CONCESSION		26	40		208	1	MC	EC	MC	
VAV 1	VAV W/ELEC HEAT	OFFICE 103	6.7A				120	1	MC	MC	MC	
VAV 2	VAV W/ELEC HEAT	OFFICE 105	6.7A				120	1	MC	MC	MC	
VAV 4	VAV W/ELEC HEAT	CONCESSIONS 116	15.2A				208	1	MC	MC	MC	
ACCU 1	AIR COOLED CONDENSING UNIT			15.6	25		208	1	MC	EC	MC	
F1	FURNACE	159 MECH.				1/3	120	1	MC	EC	MC	
CP-1	CIRC PUMP	RM 128				1/6	120	1	PC	EC	–	
CP-2	CIRC PUMP	RM 115				1/6	120	1	PC	EC	–	
SP-1	SUMP PUMP	RM 115				3/4	208	3	PC	EC	–	
WH-1	WATER HEATER	RM 128					120	1	PC	EC	–	
WH-2	WATER HEATER	RM 115					120	1	PC	EC	–	3
WH-3	WATER HEATER	RM 138	2500kW				208	1	PC	EC	–	
WH-4	WATER HEATER	RM 148	2500kW				208	1	PC	EC	–	
WH-5	WATER HEATER	RM 142					120	1	PC	EC	–	3
WH-6	WATER HEATER	RM 142							PC	EC	–	3
WH-7	WATER HEATER	RM 142							PC	EC	–	3

GENERAL NOTES:

1. WALL SWITCH BY E.C. FOR MANUAL CONTROL.
2. INTERLOCK WITH LIGHTS BY E.C.
3. EXISTING UNIT BEING RELOCATED.
4. E.C. TO PROVIDE 120V POWER TO GFI OUTLET WITH UNIT.

LIGHTING SCHEDULES FOR BLDG A

SWITCHES	LOCATIONS	CIRCUITS	SCENE	PANEL
LV1	PAVILION A			
LV2	PAVILION A			
LV3	PAVILION A			
LV4	PAVILION A			
LV5	PAVILION A			
LV6	PAVILION A			
RELAY				
1	PAVILION A	9		HA1
2	PAVILION A	9		HA1
3	PAVILION A	9		HA1
4	PAVILION A	7		HA1
5	PAVILION A	11		HA1
6	PAVILION A	11		HA1
7	PAVILION A	11		HA1
8	PAVILION A	SPARE		HA1
9	PAVILION A	SPARE		HA1
10	PAVILION A	5		HA1
11	PAVILION A	5		HA1
12	PAVILION A	13		HA1
13	PAVILION A	SPARE		HA1
14	PAVILION A	3		HA1
15	PAVILION A	3		HEM-B
16	PAVILION A	SPARE		HA1

LIGHTING SCHEDULES FOR MEZZANINE

SWITCHES	LOCATIONS	CIRCUITS	SCENE	PANEL
LV1	PAVILION A			
LV2	PAVILION A			
LV3	PAVILION A			
LV4	PAVILION A			
LV5	PAVILION A			
LV6	PAVILION A			
RELAY				
1	PAVILION A	4		HA1
2	PAVILION A	4		HA1
3	PAVILION A	4		HA1
4	PAVILION A	4		HA1
5	PAVILION A	8		HA1
6	PAVILION A	6		HA1
7	PAVILION A	4		HA1
8	PAVILION A	SPARE		HA1

LIGHTING SCHEDULES FOR BLDG B

PHOTOCELL	LOCATION	CIRCUITS	CONTROLS	PANEL
P1	PAVILION AREA B ROOF	2	On at dusk off at preset time	HB1
SWITCHES			SCENE	
LV1	PAVILION B	RELAYS 1 THRU 11	ALL ON	
LV2	PAVILION B	RELAYS 1 THRU 11	ALL OFF	
LV3	PAVILION B	RELAYS 1 THRU 11	(2) LAMPS ON/OFF	
LV4	PAVILION B	RELAYS 1 THRU 11	(2) LAMPS ON/OFF	
LV5	PAVILION B	ODD RELAYS	HALF BLDG ON/OFF (NORTH)	
LV6	PAVILION B	EVEN RELAYS	HALF BLDG ON/OFF (SOUTH)	
RELAY				
1,3	PAVILION B	1		HB1
2,4	PAVILION B	3		HB1
5,7	PAVILION B	5		HB1
6,8	PAVILION B	7		HB1
9,11	PAVILION B	9		HB1
10,12	PAVILION B	11		HB1
13,15	PAVILION B	13		HB1
14,16	PAVILION B	15		HB1
17,19	PAVILION B	17		HB1
18,20	PAVILION B	19		HB1
21,23	PAVILION B	2		HEM-B
24	PAVILION B			

LIGHTING SCHEDULES FOR BLDG C

PHOTOCELL	LOCATION	CIRCUITS	CONTROLS	PANEL
P1	PAVILION AREA C ROOF	2	On at dusk off at preset time	HC1
SWITCHES			SCENE	
LV1	PAVILION C	RELAYS 1 THRU 12	ALL ON	
LV2	PAVILION C	RELAYS 1 THRU 12	ALL OFF	
LV3	PAVILION C	RELAYS 1 THRU 12	(2) LAMPS ON/OFF	
LV4	PAVILION C	RELAYS 1 THRU 12	(2) LAMPS ON/OFF	
LV5	PAVILION C	EVEN RELAYS	HALF BLDG ON/OFF (NORTH)	
LV6	PAVILION C	ODD RELAYS	HALF BLDG ON/OFF (SOUTH)	
RELAY				
1,3	PAVILION C	1		HC1
2,4	PAVILION C	3		HC1
5,7	PAVILION C	5		HC1
6,8	PAVILION C	7		HC1
9,11	PAVILION C	9		HC1
10,12	PAVILION C	11		HC1
13,15	PAVILION C	13		HC1
14,16	PAVILION C	15		HC1
17,19	PAVILION C	17		HC1
18,20	PAVILION C	19		HC1
21,23	PAVILION C	21		HC1
22,24	PAVILION C	2		HEM-C

LIGHTING SCHEDULES FOR BLDG D

PHOTOCELL	LOCATION	CIRCUITS	CONTROLS	PANEL
P1	PAVILION AREA D ROOF	2	On at dusk off at preset time	HD1
SWITCHES			SCENE	
LV1	PAVILION D	RELAYS 1 THRU 21	ALL ON	
LV2	PAVILION D	RELAYS 1 THRU 21	ALL OFF	
LV3	PAVILION D	RELAYS 1 THRU 21	(2) LAMPS ON/OFF	
LV4	PAVILION D	RELAYS 1 THRU 21	(2) LAMPS ON/OFF	
LV5	PAVILION D	EVEN RELAYS	HALF BLDG ON/OFF (NORTH)	
LV6	PAVILION D	ODD RELAYS	HALF BLDG ON/OFF (SOUTH)	
RELAY				
1,3	PAVILION D	1		HD1
2,4	PAVILION D	3		HD1
5,7	PAVILION D	5		HD1
6,8	PAVILION D	7		HD1
9,11	PAVILION D	9		HD1
10,12	PAVILION D	11		HD1
13,15	PAVILION D	13		HD1
14,16	PAVILION D	15		HD1
17,19	PAVILION D	17		HD1
18,20	PAVILION D	19		HD1
21	PAVILION D	2		HEM-D
22	PAVILION D			
23	PAVILION D			
24	PAVILION D			

MOTOR SCHEDULE

MECH. EQUIP. NO.	EQUIPMENT	LOCATION ROOM NUMBER	FLA/A/W	MCA	MOCP	HP	VOLT	PH	STARTER BY MC/PC/EC	DISCONNECT BY MC/PC/EC	CONTROL WIRING BY MC/PC/EC	REMARKS
SF-1-5	SUPPLY FAN	BLDG 1 MEZZANINE				50	460	3	EC	EC	MC	
SF-6-19	SUPPLY FAN	BLDG 2 MEZZANINE				50	460	3	EC	EC	MC	
SF-20	SUPPLY FAN	129 ELEC. RM				1/4	120	1		MC	MC	
SF-21	SUPPLY FAN	132 ELEC. RM				1/4	120	1		MC	MC	
SF-22	SUPPLY FAN	149 ELEC. RM				1/4	120	1		MC	MC	
SF-23	SUPPLY FAN	140 MILK PARLOR				3/4	120	1	EC	MC	MC	1
SF-24	SUPPLY FAN	143 CONCESSION				3/4	120	1	MC	MC	MC	
CEF-1	EXHAUST FAN	109 ELEV EQUIP				1/4	120	1	MC	EC	MC	
EF-1	EXHAUST FAN	PREFUNCTION ROOF				3/4	120	1	MC	MC	MC	1
EF-2	EXHAUST FAN	BLDG 1 SHOWER				1/2	120	1	EC	MC	EC	2
EF-3	EXHAUST FAN	BLDG 1 RESTROOM				1/2	120	1	EC	MC	EC	2
EF-4	EXHAUST FAN	BLDG 2 CONCESSION				3/4	120	1	EC		MC	1
EF-5	EXHAUST FAN	BLDG 2 EAST RESTROOM				1/2	120	1	EC		EC	2
EF-6	EXHAUST FAN	BLDG 2 WEST RESTROOM				1/2	120	1	EC		EC	2
EF-7A	EXHAUST FAN	RM 142				1	208	1	EC	MC	MC	
EF-7B	EXHAUST FAN	RM 142				1	208	1	EC	MC	MC	
EF-8	EXHAUST FAN	153 WORK AREA				1/2	120	1	MC	MC	MC	
EF-9	EXHAUST FAN	154 WELDING				2	208	3	MC	MC	MC	
EF-10	EXHAUST FAN	159 MECH RM					120	1	EC	EC	MC	
EWH-1	ELEC. WALL HEATER	100 VESTIBULE	38.5A				208	1	MC	MC	MC	
EWH-2	ELEC. WALL HEATER	101B STAIR	38.5A				208	1	MC	MC	MC	
EWH-3	ELEC. WALL HEATER	RM 122	14.4A				208	1	MC	MC	MC	
EWH-4	ELEC. WALL HEATER	127 MENS TOILET	19.2A				208	1	MC	MC	MC	
EWH-5	ELEC. WALL HEATER	130 TELE/DATA	19.2A				208	1	MC	MC	MC	
EWH-6	ELEC. WALL HEATER	133 TELE/DATA	19.2A				208	1	MC	MC	MC	
EWH-7	ELEC. WALL HEATER	150 TELE/DATA	19.2A				208	1	MC	MC	MC	
EWH-8	ELEC. WALL HEATER	143 CONCESSIONS	14.4A				208	1	MC	MC	MC	
EWH-9	ELEC. WALL HEATER	143 CONCESSIONS	14.4A				208	1	MC	MC	MC	
EWH-10	ELEC. WALL HEATER	136 WOMENS TOILET	19.2A				208	1	MC	MC	MC	
EWH-11	ELEC. WALL HEATER	136 WOMENS TOILET	19.2A				208	1	MC	MC	MC	
EWH-12	ELEC. WALL HEATER	137 MENS TOILET	19.2A				208	1	MC	MC	MC	
EWH-13	ELEC. WALL HEATER	137 MENS TOILET	19.2A				208	1	MC	MC	MC	
EWH-14	ELEC. WALL HEATER	BLDG 2 EAST MOP BASIN	7.2A				208	1	MC	MC	MC	
EWH-15	ELEC. WALL HEATER	138 WATER ROOM	14.4A				208	1	MC	MC	MC	
EWH-16	ELEC. WALL HEATER	146 WOMENS TOILET	19.2A				208	1	MC	MC	MC	
EWH-17	ELEC. WALL HEATER	146 WOMENS TOILET	19.2A				208	1	MC	MC	MC	
EWH-18	ELEC. WALL HEATER	147 MENS TOILET	19.2A				208	1	MC	MC	MC	
EWH-19	ELEC. WALL HEATER	147 MENS TOILET	19.2A				208	1	MC	MC	MC	
EWH-20	ELEC. WALL HEATER	BLDG 2 WEST MOP BASIN	7.2A				208	1	MC	MC	MC	
EWH-21	ELEC. WALL HEATER	148 WATER ROOM	14.4A				208	1	MC	MC	MC	
EWH-22	ELEC. WALL HEATER	129 ELEC ROOM	19.2A				208	1	MC	MC	MC	
EWH-23	ELEC. WALL HEATER	132 ELEC ROOM	19.2A				208	1	MC	MC	MC	
EWH-24	ELEC. WALL HEATER	149 ELEC ROOM	19.2A				208	1	MC	MC	MC	
EBB-1	ELEC. BASEBOARD	103 OFFICE	1200W				208	1	MC	MC	MC	
EBB-2	ELEC. BASEBOARD	103 OFFICE	1200W				208	1	MC	MC	MC	
EBB-3	ELEC. BASEBOARD	105 OFFICE	600W				208	1	MC	MC	MC	
EBB-4	ELEC. BASEBOARD	105 OFFICE	2000W				208	1	MC	MC	MC	
EBB-5	ELEC. BASEBOARD	111 RESTROOM	600W				208	1	MC	MC	MC	
EBB-6	ELEC. BASEBOARD	113 RESTROOM	2000W				208	1	MC	MC	MC	
EBB-7	ELEC. BASEBOARD	113 RESTROOM	1000W				208	1	MC	MC	MC	
GUH-1	GAS UNIT HEATER	RM 151				1/6	120	1	MC	MC	MC	3
GUH-2	GAS UNIT HEATER	RM 152				1/15	120	1	MC	MC	MC	
GUH-3	GAS UNIT HEATER	RM 153				1/2	120	1	MC	MC	MC	
GUH-4	GAS UNIT HEATER	RM 154				1/12	120	1	MC	MC	MC	
GUH-5	GAS UNIT HEATER	RM 161				1/12	120	1	MC	MC	MC	
GUH-6	GAS UNIT HEATER	RM 161				1/6	120	1	MC	MC	MC	
GUH-7	GAS UNIT HEATER	RM 115				1/20	120	1	MC	MC	MC	
GUH-8	GAS UNIT HEATER	RM 140				1/12	120	1	MC	MC	MC	
GUH-9	GAS UNIT HEATER	RM 141				1/20	120	1	MC	MC	MC	3
GUH-10	GAS UNIT HEATER	RM 142				1/20	120	1	MC	MC	MC	3
GRV-1	GAS RADIANT VENT	120 BLDG 1 NORTH	11.6A				120	1	MC	EC	MC	
GRV-2	GAS RADIANT VENT	120 BLDG 1 WEST	9.6A				120	1	MC	EC	MC	
GRV-3	GAS RADIANT VENT	120 BLDG 1 EAST	9.6A				120	1	MC	EC	MC	
GRV-4	GAS RADIANT VENT	120 BLDG 1 SOUTH	11.6A				120	1	MC	EC	MC	
GRH 1-1	GAS RADIANT HEATER	BLDG 1 NORTH	0.7A				120	1	MC	EC	MC	
GRH 1-2	GAS RADIANT HEATER	BLDG 1 NORTH	0.7A				120	1	MC	EC	MC	
GRH 1-3	GAS RADIANT HEATER	BLDG 1 NORTH	0.7A				120	1	MC	EC	MC	
GRH 1-4	GAS RADIANT HEATER	BLDG 1 NORTH	0.7A				120	1	MC	EC	MC	
GRH 2-1	GAS RADIANT HEATER	BLDG 1 WEST	0.7A				120	1	MC	EC	MC	
GRH 2-2	GAS RADIANT HEATER	BLDG 1 WEST	0.7A				120	1	MC	EC	MC	
GRH 2-3	GAS RADIANT HEATER	BLDG 1 WEST	0.7A				120	1	MC	EC	MC	
GRH 2-4	GAS RADIANT HEATER	BLDG 1 WEST	0.7A				120	1	MC	EC	MC	
GRH 2-5	GAS RADIANT HEATER	BLDG 1 WEST	0.7A				120	1	MC	EC	MC	
GRH 3-1	GAS RADIANT HEATER	BLDG 1 EAST	0.7A				120	1	MC	EC	MC	
GRH 3-2	GAS RADIANT HEATER	BLDG 1 EAST	0.7A				120	1	MC	EC	MC	
GRH 3-3	GAS RADIANT HEATER	BLDG 1 EAST	0.7A				120	1	MC	EC	MC	
GRH 3-4	GAS RADIANT HEATER	BLDG 1 EAST	0.7A				120	1	MC	EC	MC	
GRH 4-1	GAS RADIANT HEATER	BLDG 1 SOUTH	0.7A				120	1	MC	EC	MC	
GRH 4-2	GAS RADIANT HEATER	BLDG 1 SOUTH	0.7A				120	1	MC	EC	MC	
GRH 4-3	GAS RADIANT HEATER	BLDG 1 SOUTH	0.7A				120	1	MC	EC	MC	
GRH 4-4	GAS RADIANT HEATER	BLDG 1 SOUTH	0.7A				120	1	MC	EC	MC	

GENERAL NOTES:

1. WALL SWITCH BY E.C. FOR MANUAL CONTROL.
2. INTERLOCK WITH LIGHTS BY E.C.
3. EXISTING UNIT BEING RELOCATED.
4. E.C. TO PROVIDE 120V POWER TO GFI OUTLET WITH UNIT.

STRANG

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

STRANG INC.
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MADISON, WI 53705-4395

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DATE 08-01-13

PROJECT NO. 2013027_02

PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NO.

E505

KATIE KLABACKA 2009-6-30 2:27 PM K:_2013\2013027 - ALLIANT ENERGY CENTER LIVESTOCK & EXHIBITION SPACE EXPANSION\2013027_02 - ALLIANT ENERGY CENTER - LIVESTOCK AND EXHIBITION HALL\DRAWINGS\2013027_02-E505.DWG

Panelboard: LEM-B

Bus Ampacity	100	Volts	120/208	Panel Source:	
Branch Brkr Space	18	Phase	3	Feed (Top/Bottom)	
MLO Amps		Wires	4	Feed-Thru Lugs	
MCB A/P	50	Surface	YES	Load Fed	
Pnl Mfr		Recessed		Sub-Feed Lugs	
Pnl Type		AIC	22K	Load Fed	
Pnl Height				Sub-Feed Brkr #1	
Pnl Width		Pnl MCA		Load Fed	
Pnl Depth				Sub-Feed Brkr #2	
				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
	1									2	
	3									4	
	5									6	
	7									8	
	9									10	
	11									12	
	13									14	
	15									16	
	17									18	

Total Lights
Total Recpts
Total HVAC Blwrs
Total HVAC A/C
Total HVAC Htg
Total HVAC
Total MIsc

Total Phases
Total Panel

Panelboard: LEM-C

Bus Ampacity	100	Volts	120/208	Panel Source:	
Branch Brkr Space	18	Phase	3	Feed (Top/Bottom)	
MLO Amps		Wires	4	Feed-Thru Lugs	
MCB A/P	50	Surface	YES	Load Fed	
Pnl Mfr		Recessed		Sub-Feed Lugs	
Pnl Type		AIC	22K	Load Fed	
Pnl Height				Sub-Feed Brkr #1	
Pnl Width		Pnl MCA		Load Fed	
Pnl Depth				Sub-Feed Brkr #2	
				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
	1									2	
	3									4	
	5									6	
	7									8	
	9									10	
	11									12	
	13									14	
	15									16	
	17									18	

Total Lights
Total Recpts
Total HVAC Blwrs
Total HVAC A/C
Total HVAC Htg
Total HVAC
Total MIsc

Total Phases
Total Panel

Panelboard: LEM-D

Bus Ampacity	100	Volts	120/208	Panel Source:	
Branch Brkr Space	18	Phase	3	Feed (Top/Bottom)	
MLO Amps		Wires	4	Feed-Thru Lugs	
MCB A/P	50	Surface	YES	Load Fed	
Pnl Mfr		Recessed		Sub-Feed Lugs	
Pnl Type		AIC	22K	Load Fed	
Pnl Height				Sub-Feed Brkr #1	
Pnl Width		Pnl MCA		Load Fed	
Pnl Depth				Sub-Feed Brkr #2	
				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
	1									2	
	3									4	
	5									6	
	7									8	
	9									10	
	11									12	
	13									14	
	15									16	
	17									18	

Total Lights
Total Recpts
Total HVAC Blwrs
Total HVAC A/C
Total HVAC Htg
Total HVAC
Total MIsc

Total Phases
Total Panel

Panelboard: EM MD

Bus Ampacity	100	Volts	277/480	Panel Source:	EM GENERATOR
Branch Brkr Space	18	Phase	3	Feed (Top/Bottom)	
MLO Amps	100	Wires	4	Feed-Thru Lugs	
MCB A/P		Surface	YES	Load Fed	
Pnl Mfr		Recessed		Sub-Feed Lugs	
Pnl Type		AIC	22K	Load Fed	
Pnl Height				Sub-Feed Brkr #1	
Pnl Width		Pnl MCA		Load Fed	
Pnl Depth				Sub-Feed Brkr #2	
				Load Fed	

Load to be Fed	Cct No	Brkr A/P	Left Phases A	Left Phases B	Left Phases C	Right Phases A	Right Phases B	Right Phases C	Brkr A/P	Cct No	Load to be Fed
ATS - AB	1	50/3							50/3	2	ATS-C
	3									4	
	5									6	
ATS - D	7	50/3							20/1	8	SPARE
	9								20/1	10	SPARE
	11								20/1	12	SPARE
SPACE	13									14	SPACE
SPACE	15									16	SPACE
SPACE	17									18	SPACE

Total Lights
Total Recpts
Total HVAC Blwrs
Total HVAC A/C
Total HVAC Htg
Total HVAC
Total MIsc

Total Phases
Total Panel

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ENGINEERING
INTERIOR DESIGN

STRANG INC.
6411 MINERAL POINT ROAD
MADISON, WI 53705-4395

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DRAWING SET	CD
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FILE NAME	2013027_02-E506.DWG
REVISIONS	
DRAWN	KK
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DATE	08-01-13
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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS BID # 313072

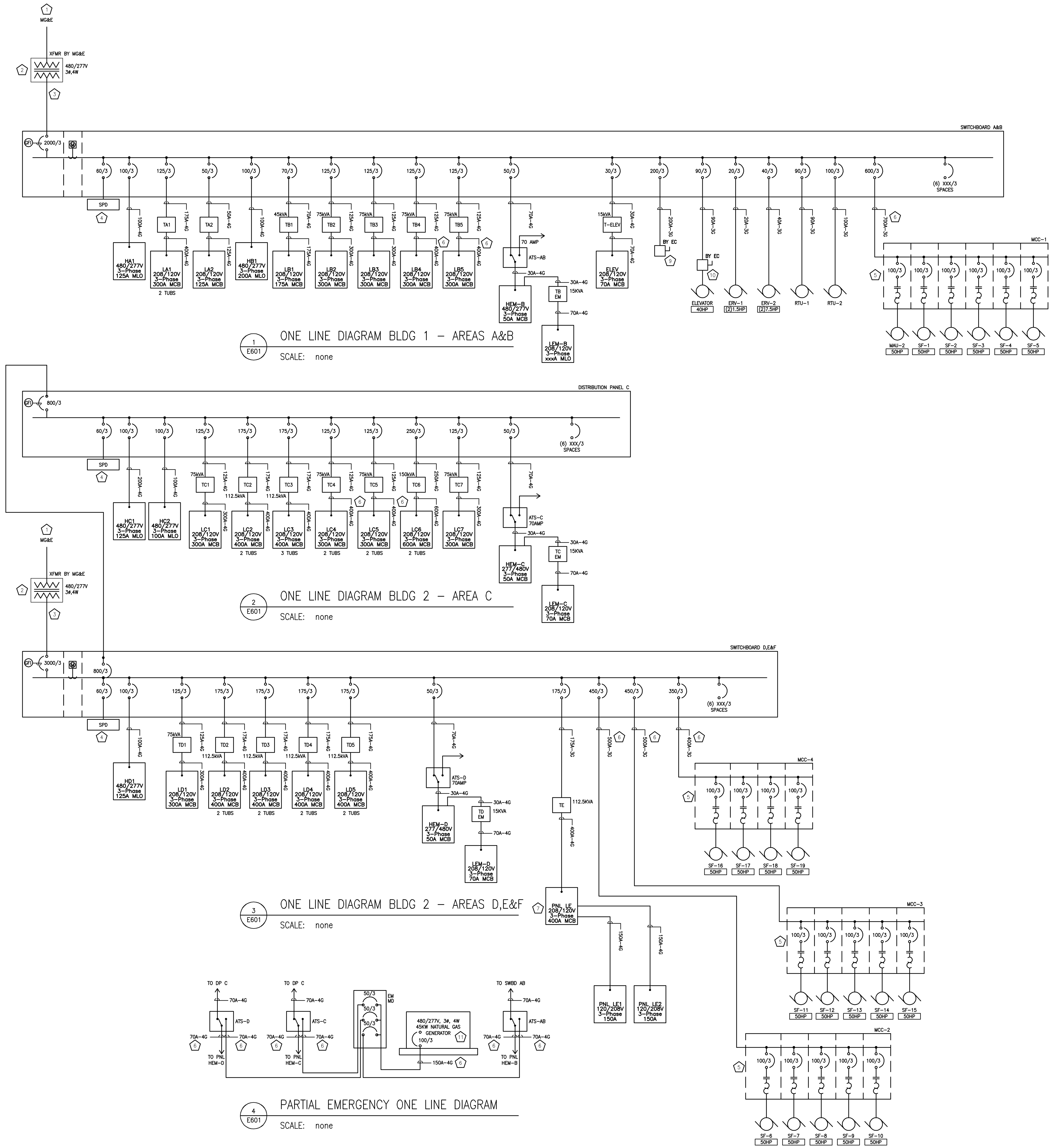
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

PANELBOARD SCHEDULES

SHEET NO.

E506



1 E601 ONE LINE DIAGRAM BLDG 1 – AREAS A&B
SCALE: none

2 E601 ONE LINE DIAGRAM BLDG 2 – AREA C
SCALE: none

3 E601 ONE LINE DIAGRAM BLDG 2 – AREAS D,E&F
SCALE: none

4 E601 PARTIAL EMERGENCY ONE LINE DIAGRAM
SCALE: none

FEEDER SCHEDULE (600 V)

FEEDER AMPACITY	CONDUCTOR SIZE (kcmil)		CONDUIT SIZE	
	ø & N	GRD	3ø & GRD.	3ø & N & GRD.
20	#12	#12	3/4"	3/4"
30	#10	#10	3/4"	3/4"
40	#8	#10	3/4"	1"
50	#6	#10	1"	1"
70	#4	#8	1-1/4"	1-1/4"
80	#3	#8	1-1/4"	1-1/4"
100	#1	#8	1-1/2"	2"
110	#2	#6	1-1/4"	1-1/2"
125	#1	#6	1-1/2"	2"
150	#1/0	#6	1-1/2"	2"
175	#2/0	#6	2"	2"
200	#3/0	#6	2"	2-1/2"
225	#4/0	#4	2"	2-1/2"
250	#250	#4	2-1/2"	3"
300	#350	#4	3"	3"
350	#500	#3	3"	3-1/2"
400	(2) # 3/0	(2) # 3	(2) 2"	(2) 2-1/2"
450	(2) # 4/0	(2) # 2	(2) 2"	(2) 2-1/2"
500	(2) # 250	(2) # 2	(2) 2-1/2"	(2) 3"
600	(2) # 350	(2) # 1	(2) 3"	(2) 3"
700	(2) # 500	(2) # 1/0	(2) 3"	(2) 3-1/2"
800	(2) # 600	(2) # 1/0	(2) 3-1/2"	(2) 4"
1000	(3) # 400	(3) # 2/0	(3) 3"	(3) 3-1/2"
1200	(3) # 600	(3) # 3/0	(3) 3-1/2"	(3) 4"
1600	(4) # 600	(4) # 4/0	(4) 3-1/2"	(4) 4"
2000	(5) # 600	(5) # 250	(5) 3-1/2"	(5) 4"

GENERAL NOTES:

1. THE ABOVE FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE UTILIZED.
2. ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 310-16 OF THE NEC FOR COPPER CONDUCTOR TYPE THW/THWN.
3. FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR THE DERATION FACTORS REQUIRED BY CODE AND/OR ARE OVERSIZED FOR VOLTAGE DROP.
4. WHERE MULTIPLE CONDUITS ARE INDICATED FOR A SINGLE FEEDER EACH CONDUIT SHALL CONTAIN AN Aø, Bø, Cø, GROUND CONDUCTOR, AND NEUTRAL CONDUCTOR.

200 – 3G FEEDER DESIGNATION

SYSTEM DESCRIPTION
(3G) 3ø, 3W + GRD
(3G) 3ø, 4W + GRD

CONDUCTOR AMPACITY
(SEE FEEDER SCHEDULE)

PLAN – SPECIFIC NOTES

#	PLAN – SPECIFIC NOTES
1	UNDERGROUND PRIMARY ELECTRICAL SERVICE PROVIDED BY MG&E. COORDINATE INSTALLATION WITH UTILITY AND PROVIDE ALL WORK AND COORDINATION REQUIRED BY UTILITY TO INSTALL SERVICE.
2	PAD MOUNT TRANSFORMER BY MG&E.
3	UNDERGROUND SECONDARY SERVICE CONDUCTORS BY MG&E.
4	SPD MOUNTED ON SWITCHBOARD OR AS CLOSE AS POSSIBLE TO MAIN CIRCUIT BREAKER.
5	COMBINATION CIRCUIT BREAKER AUTOTRANSFORMER REDUCED VOLTAGE STARTERS INSTALLED IN MOTOR CONTROL CENTER. MOTOR CONTROL CENTER ENCLOSURE TO BE NEMA 3R.
6	FEEDER SIZE INCREASED TO COMPENSATE FOR VOLTAGE DROP.
7	PROVIDE A C-H POW-R-LINE 3A PANEL OR EQUAL.
8	MOUNT TRANSFORMER ON WALL ABOVE PANEL WITH STEEL CHANNEL SUPPORT RACK.
9	200AMP DISCONNECT LOCATED IN ROOM 115 TO SERVE POWER FOR CAMPING AREA.
10	PROVIDE BUSSMAN TYPE PS1T48R1KGN1BF3 POWER MODULE SWITCH.
11	GENERATOR LOCATED OUTSIDE BLDG 2 AREA C. SEE CIVIL DRAWINGS FOR EXACT LOCATION.

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PROJECT TITLE

ALLIANT ENERGY CENTER PAVILIONS
BID # 313072

1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

SHEET TITLE

ELECTRICAL ONE-LINE DIAGRAM

SHEET NO.

E601