DORSCHNER ASSOCIATES

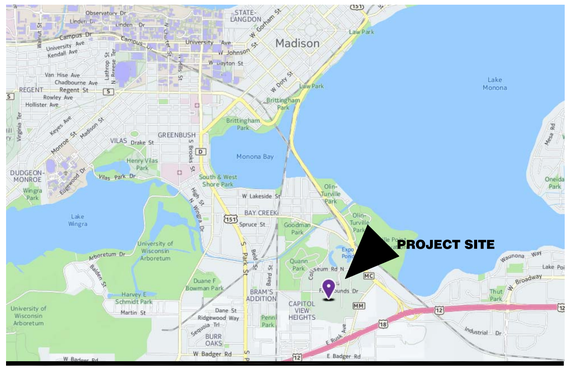
Architecture
Planning

Dorschner|Associates, Inc.
849 E. Washington Ave., Ste. 112
Madison, Wisconsin 53703

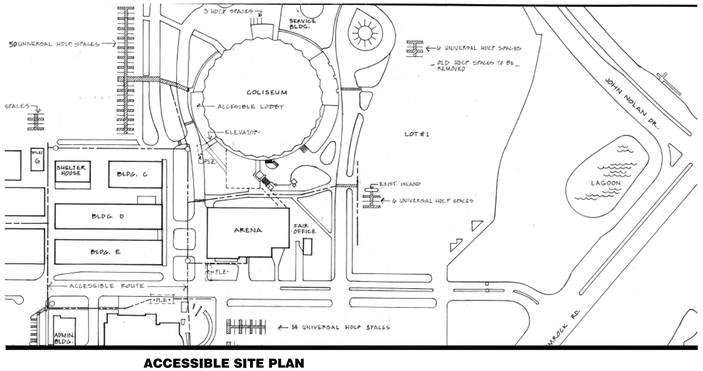
COLISEUM LOCKER ROOM REMODEL
ALLIANT ENERGY CENTER
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN

DORSCHNER|ASSOCIATES
 # 19016-00

DANE COUNTY
RFB # 320009



MADISON, WISCONSIN



ACCESSIBLE SITE PLAN

INDEX OF DRAWINGS

ARCHITECTURAL SYMBOLS AND LEGEND

X/XXX — DETAIL REFERENCE
SHEET REFERENCE
DETAIL NUMBER

X/XXX — WALL SECTION REFERENCE
SHEET REFERENCE
DETAIL NUMBER

X — WALL SECTION REFERENCE
XX|XX
SHEET REFERENCE
DETAIL NUMBER

X
X — A1.0 — X — ELEVATION REFERENCE
X

X — PARTITION TYPE REF. SEE SHEET A700

NEW WALLS

X — WINDOW TYPES SEE A700

1 HOUR FIRE RATED WALL

2 HOUR FIRE RATED WALL

100 — DOOR SWING w/NUMBER. SEE A700

100 — EXISTING DOOR SWING w/NUMBER. SEE A700

REVISIONS

FX-1 — RECESSED FIRE EXTINGUISHER

FX-2 — SURFACE MOUNT FIRE EXTINGUISHER

x70-1 — SPOT ELEVATION (FEET-INCHES)

x70.83 — SPOT ELEVATION (FEET.DECIMAL)

OFFICE
O12 — ROOM NAME & NUMBER
SEE FINISH PLAN SHEET A201

ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT
A.F.F.	ABOVE FINISHED FLOOR
AL	ALUMINUM
AP	ACCESS PANEL
CG	CORNER GUARD
CHW	CLOTHES HOOK MOUNTED ON WALL
CJ	CONTROL JOINT
CMP LMB	COMPOSITE LUMBER
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
CUH	CABINET UNIT HEATER
EJ	EXPANSION JOINT
EWC	ELECTRIC WATER COOLER
EHD	ELECTRIC HAND DRYER
FD	FLOOR DRAIN
FRT	FIRE TREATED
FX-#	FIRE EXTINGUISHER AND TYPE
GWB	GYPSUM WALL BOARD
HM	HOLLOW METAL
MB	MARKER BOARD
M	MIRROR
M.O.	MASONRY OPENING
N.I.C.	NOT IN CONTRACT
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
OPP	OPPOSITE
P.LAM.	PLASTIC LAMINATE
REV	REVERSE
R.O.	ROUGH OPENING
SK	SINK
S.S.	STAINLESS STEEL
SLS	SOLID SURFACE
TD	TOWEL DISPENSER
TPH	TOILET PAPER HOLDER
U.N.O.	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
WB	WHITE BOARD
WD	WOOD
WP	WATER PROOFING
WPT	WORK POINT
WR	WASTE RECEPTACLE

TOILET ACCESSORY SCHEDULE:

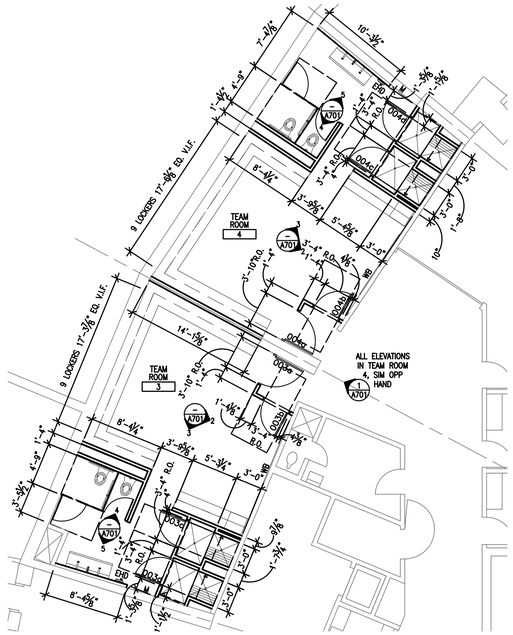
ABBREVIATION	STD. MOUNTING HEIGHT
AP	SEE PLAN AND ELEVATION
CHW	(1) 5'-6" A.F.F., (1)4'-0" A.F.F. SEE ELEVATIONS FOR OTHER LOCATIONS
EWC	(1) 2'-11" A.F.F. TO SPOUT OUTLET, (1) 3'-5" A.F.F. TO SPOUT OUTLET
EHD	TOP @ 41.25" MALE, 38.25" FEMALE
FD	SEE PLUMBING SPECIFICATION
FS	TOP @ 17-19" A.F.F.
GB8	CENTER @ 2'-10" A.F.F., 3'-2" A.F.F. IN SHOWER
GB18	HORIZ: CENTER @ 2'-10" A.F.F.; VERT: 3'-4" @ B.O. BAR HORIZ: CENTER @ 3'-2" A.F.F., VERT: 3'-7" @ B.O. BAR IN SHOWER
GB36	CENTER @ 2'-10" A.F.F., 3'-2" A.F.F. IN SHOWER
GB48	CENTER @ 2'-10" A.F.F., 3'-2" A.F.F. IN SHOWER
GB60	CENTER @ 2'-10" A.F.F., 3'-2" A.F.F. IN SHOWER
LAV	TYPICAL: TOP @ 2'-10" A.F.F. PRESCHOOL: TOP @ 1'-8" A.F.F.
M	BOTTOM @ 3'-4" MAX A.F.F.
SD	TOP @ 48" A.F.F.
SDL	LAVATORY MOUNTED
SND	48" A.F.F. MAX TO OPERATING COMPONENTS (SEE PLAN)
SNL	TOP @ 15" MIN, 48" MAX A.F.F.
TDWR	48" A.F.F. MAX. TO OPERATING COMPONENTS (SEE PLAN)
TPH	OUTLET 15" MIN, 48" MAX A.F.F., 7-9" IN FRONT OF WC TO CL (SEE PLAN)
WC	SEE PLUMBING
WR	TOP @41-45" A.F.F. MAX., BASED ON SPECIFIED PRODUCT (SEE PLAN)

DATE: 02.27.20

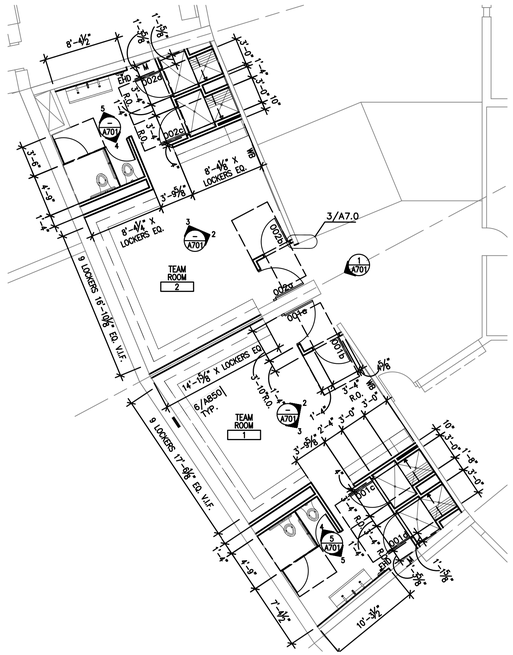
KEY PLAN AND ADA ACCESSIBLE ROUTE

1 TEAM ROOM 3 AND 4 DEMO PLAN
1/8" = 1'-0"

2 TEAM ROOM 1 AND 2 DEMO PLAN
1/8" = 1'-0"

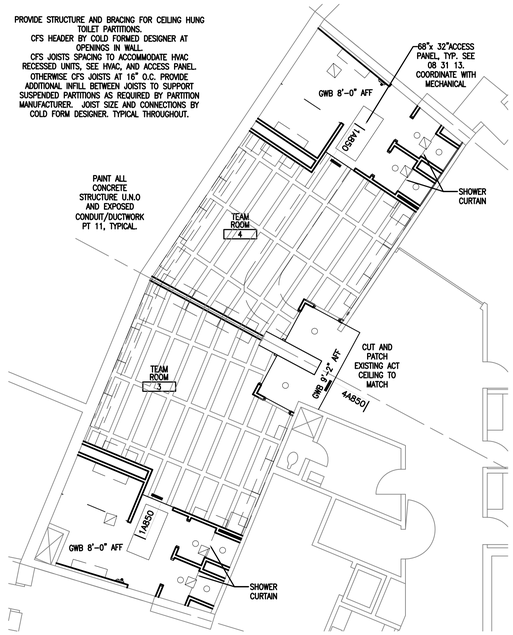


3 TEAM ROOM 3 AND 4 FLOOR PLAN
1/8" = 1'-0"

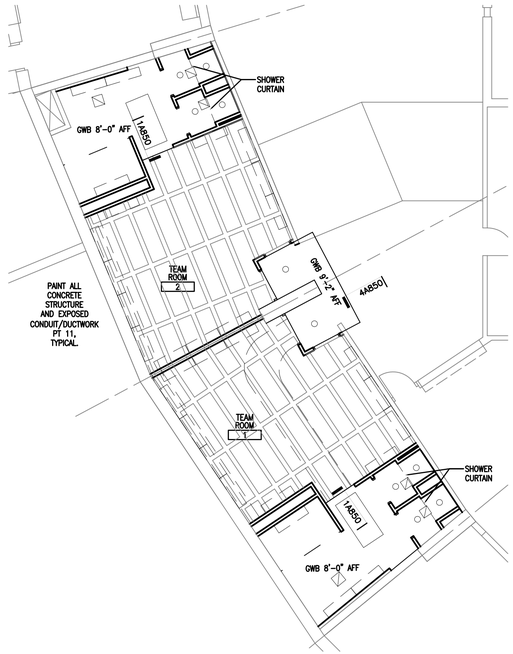


4 TEAM ROOM 1 AND 2 FLOOR PLAN
1/8" = 1'-0"

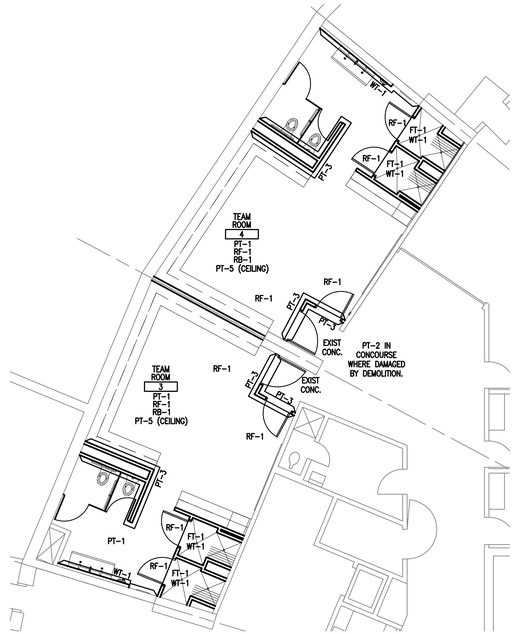
PROVIDE STRUCTURE AND BRACING FOR CEILING HUNG TOILET PARTITIONS. CFS HEADER BY COLD FORMED DESIGNER AT OPENINGS IN WALL. CFS JOISTS SPACING TO ACCOMMODATE HVAC RECESSED UNITS, SEE HVAC, AND ACCESS PANEL. OTHERWISE CFS JOISTS AT 16" O.C. PROVIDE ADDITIONAL INFILL BETWEEN JOISTS TO SUPPORT SUSPENDED PARTITIONS AS REQUIRED BY PARTITION MANUFACTURER. JOIST SIZE AND CONNECTIONS BY COLD FORM DESIGNER. TYPICAL THROUGHOUT.



5 TEAM ROOM 3 AND 4 REFLECTED CEILING PLAN
1/8" = 1'-0"



6 TEAM ROOM 1 AND 2 REFLECTED CEILING PLAN
1/8" = 1'-0"



7 TEAM ROOM 3 AND 4 FINISH PLAN, SIM TEAM ROOM 1 AND 2
1/8" = 1'-0"

DEMOLITION NOTES

DEMO PORTIONS OF WALLS FOR INSTALLATION OF MEP WITHIN EXISTING WALLS, SEE MEP. PATCH TO MATCH.

SEE MEP PLANS FOR ADDITIONAL DEMO. DEMO, CUT AND PATCH FOR MEP ACCESS.

REMOVE AND SALVAGE CORNER GUARDS WHERE REQUIRED FOR INSTALLATION OF WORK.

1. DEMO MASONRY WALL. COORDINATE WITH MEP
2. DEMO CARPET AND RUBBER BASE INCLUDING BASE AT ENTRANCES
3. DEMO ALL TOILET PARTITIONS AND ACCESSORIES. TURN OVER ANY REQUESTED ACCESSORIES TO OWNER.
4. DEMO HM DOOR AND FRAME
5. DEMO LOCKERS AND BENCH IN ENTIRETY.
6. DEMO EXISTING SLAB AND CURB FOR MECHANICAL, ELECTRICAL AND PLUMBING WORK. SEE MEP FOR INFORMATION. APPROXIMATE INFORMATION FOR SAWCUTTING FLOOR FOR PLUMBING INSTALLATION IS SHOWN ON PLUMBING DRAWINGS.

   CUT AND PATCH EXISTING WALLS FOR THE INSTALLATION OF FIXTURES INCLUDING ROUGH IN, BLOCKING AND BRACING.
7. DEMO TILE FLOOR

GENERAL NOTES:

1. FIELD VERIFY ALL EXISTING CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. PATCH TO MATCH ALL EXPOSED SURFACES INCLUDING THOSE NOW EXPOSED TO STRUCTURE OR DAMAGED BY DEMOLITION OR INSTALLATION OF THE WORK. REPLACE FULL MASONRY UNIT. THICKNESS OF EXISTING CONCRETE SLAB IS ASSUMED TO BE 4". INSTALL 4" SLAB ON GRADE 4000 PSI 28 STRENGTH ON MINIMUM 10 MIL VAPOR BARRIER, PERM RATING OF 0.1 OR LESS. COMPLY WITH 06 65 66 REQUIREMENTS.
3. SEE MEP FOR WORK REQUIRING REMOVAL AND REINSTALLATION. EXISTING METAL PAN CEILING: 24"X24" SNAP IN PANEL, 24 GA GALVANEAL STEEL, B-PERFORATION (15% OPEN AREA) POLYESTER POWER COAT IN GLOBAL WHITE AND FIELD PAINT BENJAMIN MOORE DECORATOR WHITE, V.I.F. CONTACT: NEXGEN BUILDING SUPPLY
4. GC TO COORDINATE WITH TILE INSTALLER. HAVE A PRE-INSTALLATION CONFERENCE AND DEMO AS REQUIRED FOR TILE INSTALLATION AND MEP ACCESS.
5. PAINT ALL HM DOORS AND FRAMES..
6. SLOPE FLOORS TO DRAIN.
7. SEE MECHANICAL AND ELECTRICAL AND COORDINATE RECEPTACLE AND EQUIPMENT LOCATIONS WITH OWNER PRIOR TO ROUGH IN. COORDINATE WALL LOCATIONS TO AVOID EXISTING DUCTWORK.
8. SEE 10 28 00 FOR COAT HOOK SCHEDULE
9. REPAIR AND FINISH ALL CONCRETE FLOORS IN THE CONCOURSE WHERE DAMAGED BY DEMOLITION.
10. NOT USED
11. ALL WALLS REFER TO A700 P-TYPE 1A.
12. EXISTING WALLS ARE MASONRY, EXISTING STRUCTURE IS CONCRETE.

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COLISEUM LOCKER ROOM REMODEL
ALLIANT ENERGY CENTER
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN

DRAWING
PARTIAL FIRST FLOOR PLANS, REFLECTED CEILING PLANS AND FINISH PLANS

DATE
02.27.20

A201

DOOR AND FRAME SCHEDULE

DOOR NO.	QNTY	DOOR W	DOOR SIZE H	DOOR T	DOOR MATERIAL	DOOR ELEV	DOOR (GLT) GLASS	DOOR LOUVER OR UNDERCUT	FRAME MATL	FRAME ELEV	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FIRE LABEL	HDWR GROUP	REMARKS
001a	1	3–6	7–8 3/4	–	STL	B	–	–	STL/CMP LMB	–	3/A850	3/A850	–	–	1	
001b	1	3–0	7–0	–	HM	A	–	–	HM	D	2/A850	2/A850	–	–	3	
001c	1	3–0	7–0	–	HM	A	–	24"X12"	HM	D	2/A850	2/A850	–	–	2	
001d	1	3–0	7–0	–	HM	A	–	24"X12"	HM	D	2/A850	2/A850	–	–	2	
002a	1	3–6	7–8 3/4	–	STL	B	–	–	STL/CMP LMB	–	3/A850	3/A850	–	–	1	
002b	1	3–0	7–0	–	HM	A	–	–	HM	D	2/A850	2/A850	–	–	3	
002c	1	3–0	7–0	–	HM	A	–	24"X12"	HM	D	2/A850	2/A850	–	–	2	
002d	1	3–0	7–0	–	HM	A	–	24"X12"	HM	D	2/A850	2/A850	–	–	2	
003a	1	3–6	7–8 3/4	–	STL	B	–	–	STL/CMP LMB	–	3/A850	3/A850	–	–	1	
003b	1	3–0	7–0	–	HM	A	–	–	HM	D	2/A850	2/A850	–	–	3	
003c	1	3–0	7–0	–	HM	A	–	24"X12"	HM	D	2/A850	2/A850	–	–	2	
003d	1	3–0	7–0	–	HM	A	–	24"X12"	HM	D	2/A850	2/A850	–	–	2	
004a	1	3–6	7–8 3/4	–	STL	B	–	–	STL/CMP LMB	–	3/A850	3/A850	–	–	1	
004b	1	3–0	7–0	–	HM	A	–	–	HM	D	2/A850	2/A850	–	–	3	
004c	1	3–0	7–0	–	HM	A	–	24"X12"	HM	D	2/A850	2/A850	–	–	2	
004d	1	3–0	7–0	–	HM	A	–	24"X12"	HM	D	2/A850	2/A850	–	–	2	

GENERAL NOTES:

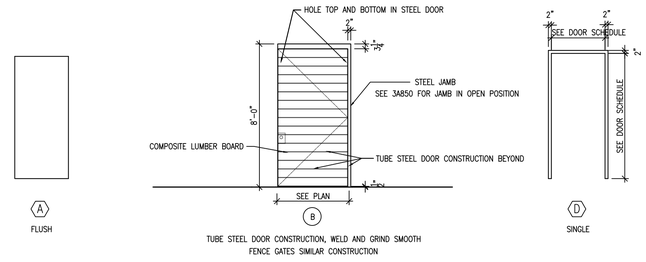
1. PAINT HM FRAMES, EXISTING HM DOORS AND FRAMES SCHEDULED AND EXISTING NOTED ON PLAN TO MATCH OWNER'S SAMPLE.
2. STAIN WOOD DOORS TO MATCH OWNER'S SAMPLE.
3. FIELD VERIFY ALL DIMENSIONS.
4. REFER TO SHEET A7.0 FOR HOLLOW METAL FRAME ELEVATIONS.

LEGEND

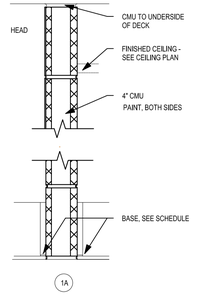
AL	ALUMINUM	CMP LMB	COMPOSITE LUMBER
HM	HOLLOW METAL		
WD	WOOD		
UC	UNDERCUT		

REMARKS:

2. FIELD VERIFY DOOR DIMENSIONS TO FIX EXISTING ROUGH OPENING.



2 DOOR, FRAME AND WINDOW ELEVATIONS
1/4"=1'-0"



1 PARTITION TYPES
1-1/2"=1'-0"

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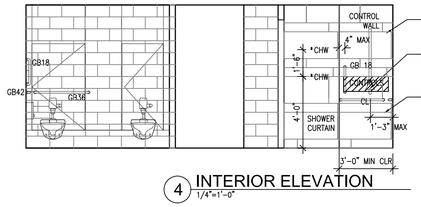
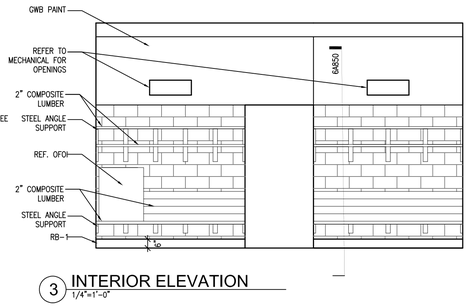
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN

DRAWING
DOOR SCHEDULE, DETAILS AND P-TYPES

DATE
02.27.20

A700





5 INTERIOR ELEVATION
1/4"=1'-0"

4 INTERIOR ELEVATION
1/4"=1'-0"

3 INTERIOR ELEVATION
1/4"=1'-0"

2 INTERIOR ELEVATION
1/4"=1'-0"

1 INTERIOR ELEVATION
1/4"=1'-0"

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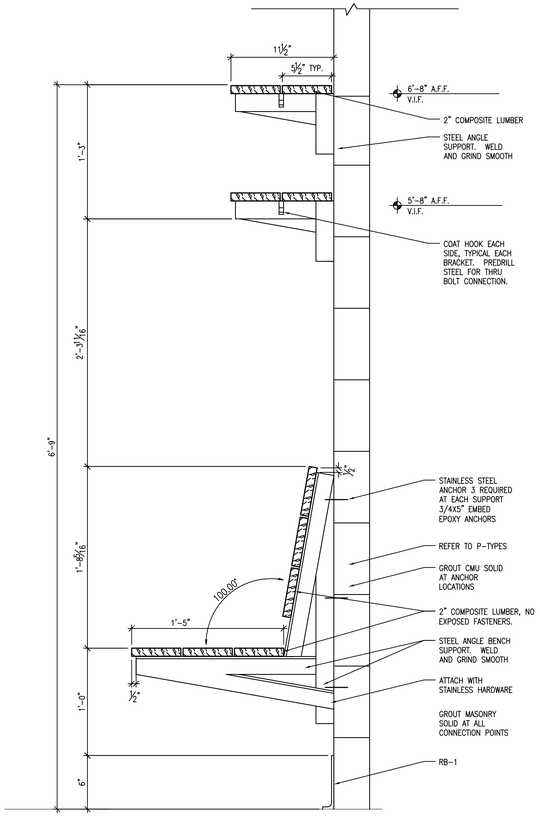
COLISEUM LOCKER ROOM
REMODEL
ALLIANT ENERGY CENTER
1919 ALLIANT ENERGY
CENTER WAY
MADISON, WISCONSIN

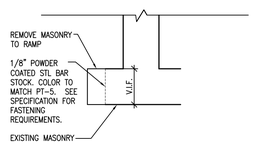
DRAWING
INTERIOR ELEVATIONS

DATE
02.27.20

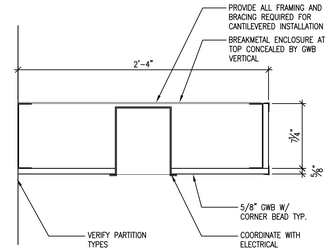
A701



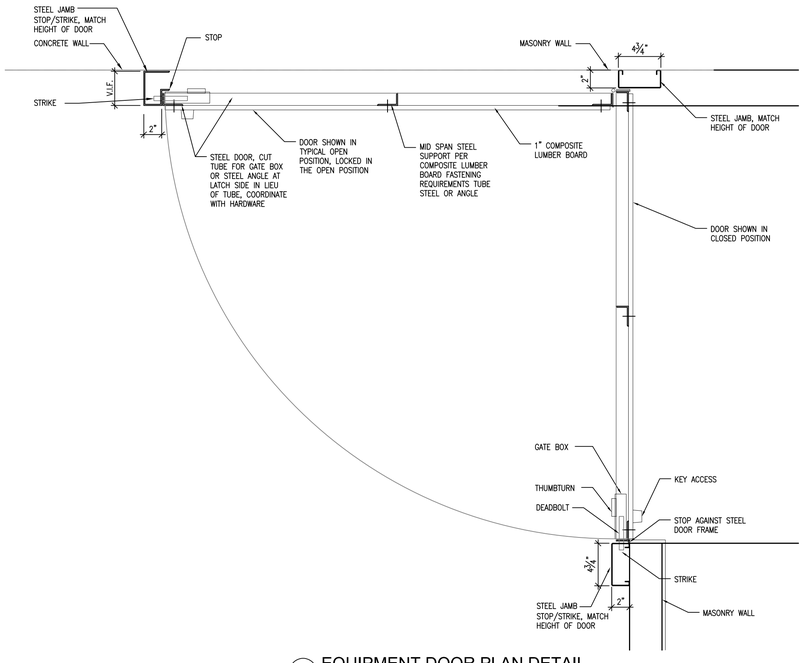
6 BENCH DETAIL
1 1/2"=1'-0"



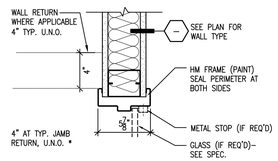
5 STEEL CAP DETAIL
1 1/2"=1'-0"



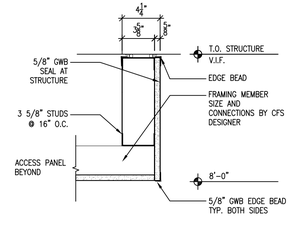
4 GWB CLOUD DETAIL
1 1/2"=1'-0"



3 EQUIPMENT DOOR PLAN DETAIL
1 1/2"=1'-0"



2 HM DOOR JAMB/HEAD DETAIL
1 1/2"=1'-0"



1 BULKHEAD DETAIL
1 1/2"=1'-0"

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DRAWING
INTERIOR DETAILS

DATE
02.27.20

A850

PLUMBING LEGEND

CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
CS	COLD SOFT WATER
	SANITARY DRAIN, WASTE OR SEWER (SAN)
	VENT (V)
XX (E)	EXISTING PIPE (SERVICE DESIGNATED)
XX (E)	EXISTING VENT (SERVICE DESIGNATED)
XX (E)	EXISTING PIPE TO BE REMOVED/DEMOLISHED
XX (E)	EXISTING VENT TO BE REMOVED/DEMOLISHED
	TEE (BRANCH TO SIDE)
	TEE (BRANCH DOWN)
	RISER UP
	RISER DOWN
	CLEANOUT (CO)
OR	WALL CLEANOUT (WCO) FLOOR CLEANOUT (FCO) YARD CLEANOUT (YCO)
	FLOW
	CHECK VALVE
EXISTING NEW	POINT OF CONNECTION (POC)
	CAP
	SHUTOFF VALVE
	FIXTURE STOP
	WATER HAMMER ARRESTOR
XX	FIXTURE UNITS - DRAINAGE OR SUPPLY (DFU OF WSFU)
#	DEMOLITION KEYED NOTE
#	NEW WORK KEYED NOTE
#	REVISION KEYED NOTE
X / PX	TAG FOR CONTINUATION MATCH POINTS
	FLOOR DRAIN (FD)

ABBREVIATIONS

CO	CLEANOUT
CW	COLD WATER
E	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
GC	GENERAL CONTRACTOR
HW	HOT WATER
IE	INVERT ELEVATION
L	LAVATORY
PC	PLUMBING CONTRACTOR
SAN	SANITARY
SH	SHOWER
TMV	THERMOSTATIC MIXING VALVE
UR	URINAL
V	VENT
VTR	VENT THRU ROOF
W	DOMESTIC WATER SERVICE
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WHA	WATER HAMMER ARRESTOR

WATER SUPPLY CALCULATIONS

INFORMATION NEEDED FOR WATER DISTRIBUTION SIZING

USING THE FOLLOWING FORMULA, FIND THE PRESSURE AVAILABLE FOR UNIFORM LOSS (P.S.I./100' OF PIPE)

$$A = \frac{B - (C + D + E) \times 100}{F}$$

WHERE:

A. 14.4 PRESSURE AVAILABLE FOR UNIFORM LOSS (P.S.I./100' OF PIPE).

B. 75 AVAILABLE (RESIDUAL) PRESSURE AT NEARBY FIXTURE - MEASURED WITH PRESSURE GAUGE.

C. 30 PRESSURE NEEDED AT CONTROLLING FIXTURE (POINT-OF-USE MIXING VALVE).

D. 1.7 DIFFERENCE IN ELEVATION BETWEEN PRESSURE GAUGE AND CONTROLLING FIXTURE IN FEET 4 X 0.434 P.S.I./FT.

E. 0 PRESSURE LOSS DUE TO WATER SOFTENERS, WATER TREATMENT DEVICES, INSTANTANEOUS WATER HEATERS AND BACKFLOW PREVENTERS. CONVENTIONAL WATER HEATERS USUALLY DO NOT HAVE A PRESSURE LOSS.

F. 300 DEVELOPED LENGTH FROM PRESSURE GAUGE TO CONTROLLING FIXTURE IN FEET 200 X 1.5.

WITH PRESSURE AVAILABLE FOR UNIFORM LOSS, GO TO APPLICABLE TABLE FOR DISTRIBUTION SIZING.

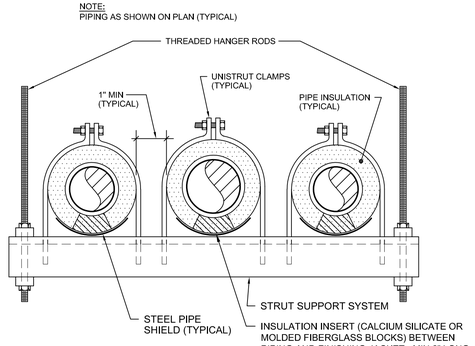
PLUMBING FIXTURES SCHEDULE

ID	FIXTURE	WASTE			WATER				DETAIL / SHEET	DESCRIPTION / REMARKS
					COLD		HOT			
		DFU	TRAP	VENT (MIN)	CWFU	SIZE	HWFU	SIZE		
L-1	LAVATORY	1	1 1/4"	1 1/2"	0.5	1/2"	0.5	1/2"	1/P000	FIXTURE: BRADLEY EVERO CAST-FORMED NATURAL QUARTZ VERGE LVSD2 WASH BASIN, WITH STAINLESS STEEL SHROUD. ADA COMPLIANT. DRILLING FOR SINGLE HOLE FAUCET AND NO SOAP DISPENSER. GEO SERIES MYKONOS COLOR.
										FAUCET: KOHLER K-7515 INSIGHT™ TOUCHLESS FAUCET, HYBRID-POWERED, 0.5 GPM VANDAL RESISTANT AERATOR, SINGLE HOLE MOUNTING CHROME FINISH, SENSOR OPERATED, POWERED BY 30-YEAR HYBRID ENERGY SYSTEM, ADA COMPLIANT. WITH MV-1 MIXING VALVE.
										CONCEALED ARM LAV CARRIER: Z1231-EZ WITH COATED RECTANGULAR STEEL UPRIGHTS AND WELDED FEET, CAST IRON ADJUSTABLE HEADERS, CONCEALED ARMS, STEEL SLEEVES, ADJUSTING BARS, AND MOUNTING FASTENERS.
										TRAP & DRAIN: PRE-WRAPPED OFFSET DRAIN & P-TRAP, WITH GRID STRAINER DRAIN. PROVIDE PROTECTIVE COVERING
										STOPS & SUPPLIES: McGUIRE LFBV2165CC, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
SH-1	FIELD-BUILD SHOWER (ADA)	2	2"	1-1/2"	2	1/2"	2	1/2"	---	FAUCET: SYMMONS DIA™ HAND SHOWER SYSTEM 3505-H321-V-CYL-B WITH PRESSURE-BALANCING MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. WITH SEPARATE DUAL OUTLET DIVERTER VALVE, SHOWER HEAD, AND 30" SLIDE BAR WITH HAND SHOWER W/ 60" HOSE. LEVER STYLE HANDLE, SERVICE STOPS, AND 1.5 GPM FLOW RESTRICTOR.
WC-1	WALL HUNG WATER CLOSET (ADA)	6	4"	1-1/2"	6.5	1-1/2"	---	---	---	KOHLER KINGSTON K-4325 WALL-MOUNT WATER CLOSET, 1.6 GPF, VITREOUS CHINA, 1-1/2" TOP SPUD, ELONGATED BOWL, SET AT ADA HEIGHT.
										FLOOR MOUNT CLOSET CARRIER: ZURN Z1201 ADJUSTABLE HORIZONTAL BACK-TO-BACK SIPHON JET CLOSET CARRIER
										FLUSH VALVE: SLOAN ROYAL 111, POLISHED CHROME, 1.6 GPF, 1-1/2" TOP SPUD, ADA COMPLIANT WITH HANDLE ON THE WIDE SIDE OF THE TOILET FOR ADA COMPLIANCE.
										SEAT: KOHLER LUSTRA K-4670-CA, OPEN FRONT TOILET SEAT, WHITE INJECTION MOLDED, SELF SUSTAINING CHECK HINGES, ANTI-MICROBIAL AGENT.
WC-2	WALL HUNG WATER CLOSET	6	4"	1-1/2"	6.5	1-1/2"	---	---	---	KOHLER KINGSTON K-4325 WALL-MOUNT WATER CLOSET, 1.6 GPF, VITREOUS CHINA, 1-1/2" TOP SPUD, ELONGATED BOWL, SET AT STANDARD HEIGHT.
										FLOOR MOUNT CLOSET CARRIER: ZURN Z1201 ADJUSTABLE HORIZONTAL BACK-TO-BACK SIPHON JET CLOSET CARRIER.
										FLUSH VALVE: SLOAN ROYAL 111, POLISHED CHROME, 1.6 GPF, 1-1/2" TOP SPUD, ADA COMPLIANT WITH HANDLE ON THE WIDE SIDE OF THE TOILET FOR ADA COMPLIANCE.
										SEAT: KOHLER LUSTRA K-4670-CA, OPEN FRONT TOILET SEAT, WHITE INJECTION MOLDED, SELF SUSTAINING CHECK HINGES, ANTI-MICROBIAL AGENT.
MV-1	L-1 MIXING VALVE	---	---	---	---	1/2"	---	1/2"	---	WATTS LFMMV LEAD-FREE, 1/2" THERMOSTATIC MIXING VALVE USED AS POINT-OF-USE, FOR 0.5-13 GPM FLOW. CENTER BETWEEN FAUCETS TO MAINTAIN MAX 24" FROM HOT WATER RECIRCULATION TO SUPPLIES. ASSE 1016 AND 1069 LISTED.

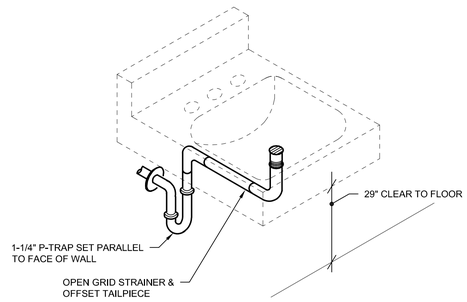
PLUMBING DRAIN AND CLEANOUT SCHEDULE

ID	FIXTURE	WASTE			DETAIL / SHEET	DESCRIPTION / REMARKS
		DFU	TRAP	VENT		
FD-1	FLOOR DRAIN (ROUND)	3	3"	1 1/2"	---	FIXTURE: ZURN ZN415-B, CAST IRON BODY, 6" NICKEL BRONZE STRAINER, COMBINATION INVERTIBLE MEMBRANE CLAMP, AND ADJUSTABLE COLLAR.
FCO	FLOOR CLEANOUT	---	---	---	---	FINISHED AREAS WITH HARD FLOORS: ZURN ZN1400-BP, CAST IRON, ADJUSTABLE FLOOR CLEANOUT WITH NICKEL BRONZE TOP AND BRONZE PLUG.
						UNFINISHED AREAS: ZURN ZN1400-BP, CAST IRON, ADJUSTABLE FLOOR CLEANOUT WITH NICKEL BRONZE TOP AND BRONZE PLUG.
WCO	WALL CLEANOUT	---	---	---	---	FIXTURE: ZURN ZS1468, POLISHED STAINLESS STEEL, ROUND ACCESS COVER, SECURING SCREW & BRONZE RAISED HEX HEAD PLUG. VERIFY LENGTH OF SCREW REQUIRED WITH WALL CONSTRUCTION.

NOTE:
PIPING AS SHOWN ON PLAN (TYPICAL)



2 P000 TRAPEZE HANGER DETAIL
SCALE: NONE



NOTE:
PROVIDE SAME WASTE PIPE TRAP CONFIGURATION FOR LAY-IN COUNTERTOP LAVATORIES WITH OPEN SPACE BELOW COUNTER.

1 P000 WALL HUNG LAVATORY - BARRIER FREE
SCALE: NONE

PLUMBING SHEET INDEX

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1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN

DRAWING
SYMBOLS, ABBREVIATIONS AND SCHEDULES – PLUMBING

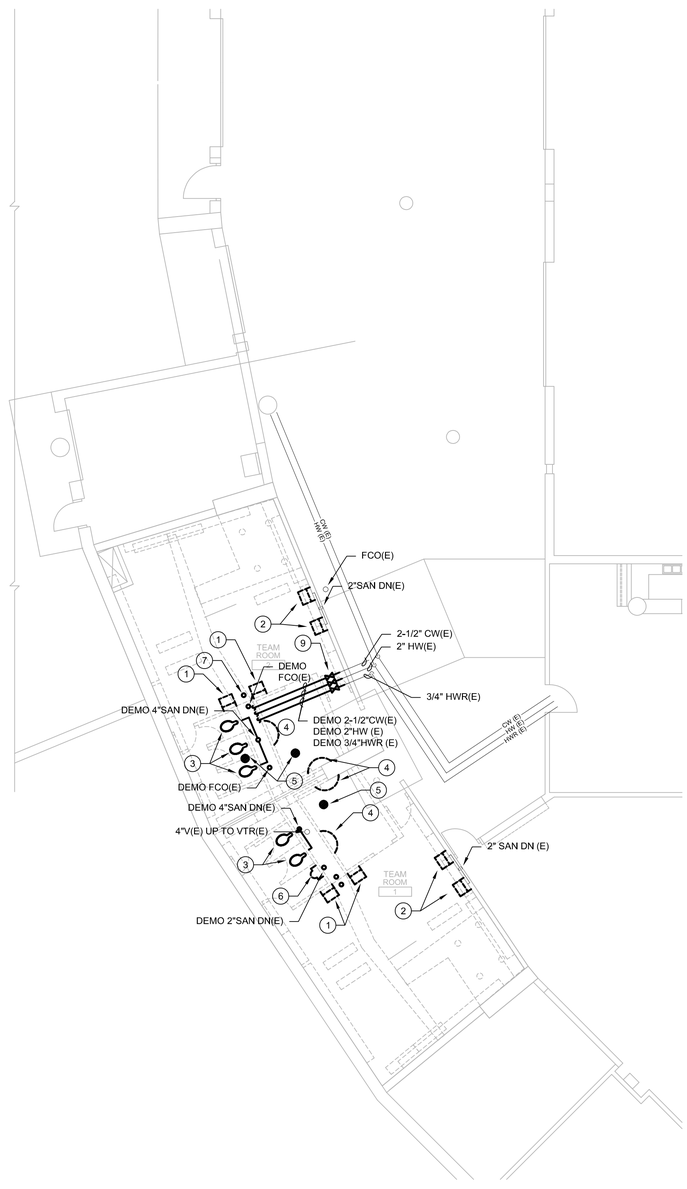
DATE
02.27.20

P000

1 P100 UNDERFLOOR DEMOLITION PLAN - TEAM ROOM 1 AND 2 - PLUMBING

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

NORTH



2 P100 DEMOLITION PLAN - TEAM ROOM 1 AND 2 - PLUMBING

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

NORTH

GENERAL PLUMBING NOTES:

1. PC SHALL VISIT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
2. PC SHALL DISCONNECT AND REMOVE PLUMBING FIXTURES UNLESS NOTED OTHERWISE.
3. IF A DEAD END IS CREATED IN THE REMOVAL OF ANY PART OF A DRAIN SYSTEM, ALL OPENINGS IN THE DRAIN SYSTEM SHALL BE PROPERLY SEALED.
4. UNUSED VENT PIPING ABOVE THE CEILING SHALL BE REMOVED BACK TO THE MAIN.
5. DEMO'D WATER SHALL BE REMOVED BACK TO THE MAIN AND CAPPED.
6. EXISTING FCOs ARE NOT VISIBLE AND ARE BASED ON RECORD DRAWINGS.
7. PC SHALL BE RESPONSIBLE FOR ALL FLOOR SAW-CUTTING, AND REPAIR/PATCHING OF FLOOR, AS REQUIRED FOR PLUMBING TO PERFORM THE OUTLINED WORK IN THESE PLANS.

KEYED PLUMBING NOTES:

1. EXISTING LAVS AND WASTE TO BE REMOVED. REMOVE ALL EXISTING WASTE, VENT, AND WATER PIPING BACK TO MAIN AND CAP.
2. EXISTING LAV HAS BEEN REMOVED. REMOVE EXISTING WASTE, VENT, AND WATER PIPING BACK TO MAIN AND CAP. PIPING MAY BE ABANDONED AND CAPPED IN BLOCK WALL BUT SHALL BE RECESSED.
3. EXISTING WATER CLOSET, CONCEALED FLUSH VALVE, AND CARRIER TO BE REMOVED. REMOVE ALL EXISTING WASTE, VENT, AND WATER PIPING IN CHASE AND BACK TO MAIN AND CAP.
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7. REMOVE EXISTING FCO WHICH IS NOT VISIBLE. LOCATION IS BASED ON RECORD DRAWINGS.
8. EXISTING FCO IS NOT VISIBLE. LOCATION IS BASED ON RECORD DRAWINGS.
9. REMOVE EXISITNG VALVES AND PROVIDE NEW VALVES.

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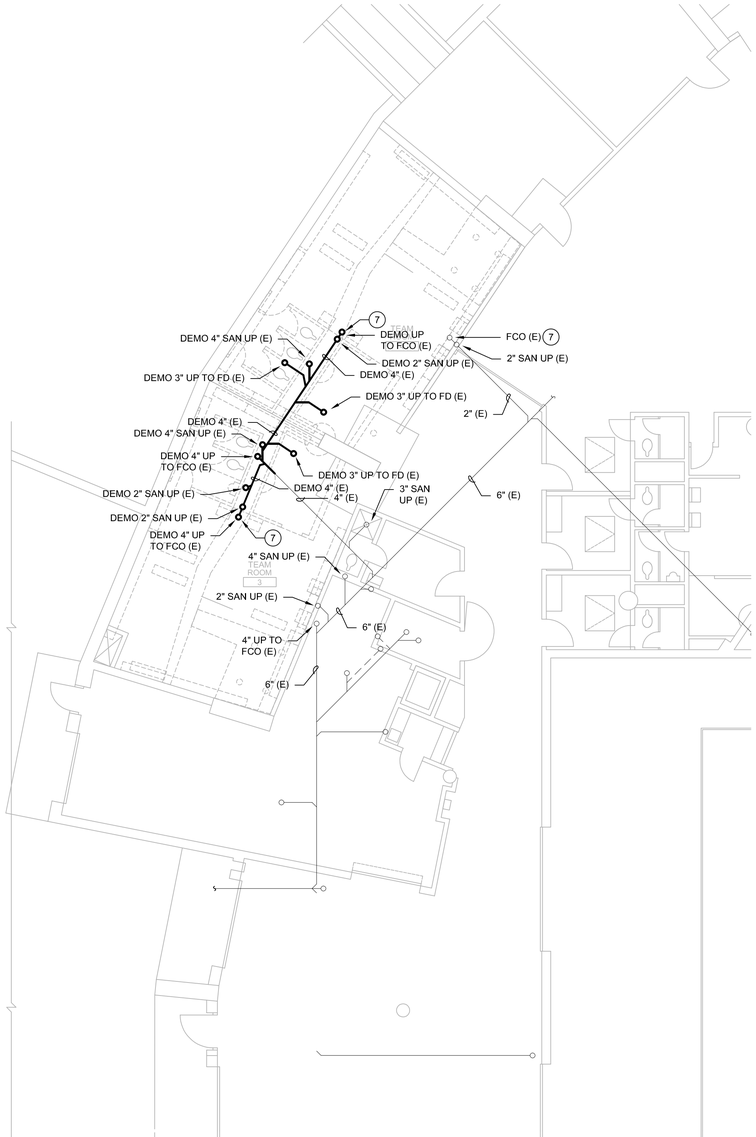
DRAWING
DEMOLITION – TEAM ROOM 1 AND 2 – PLUMBING

DATE
02.27.20

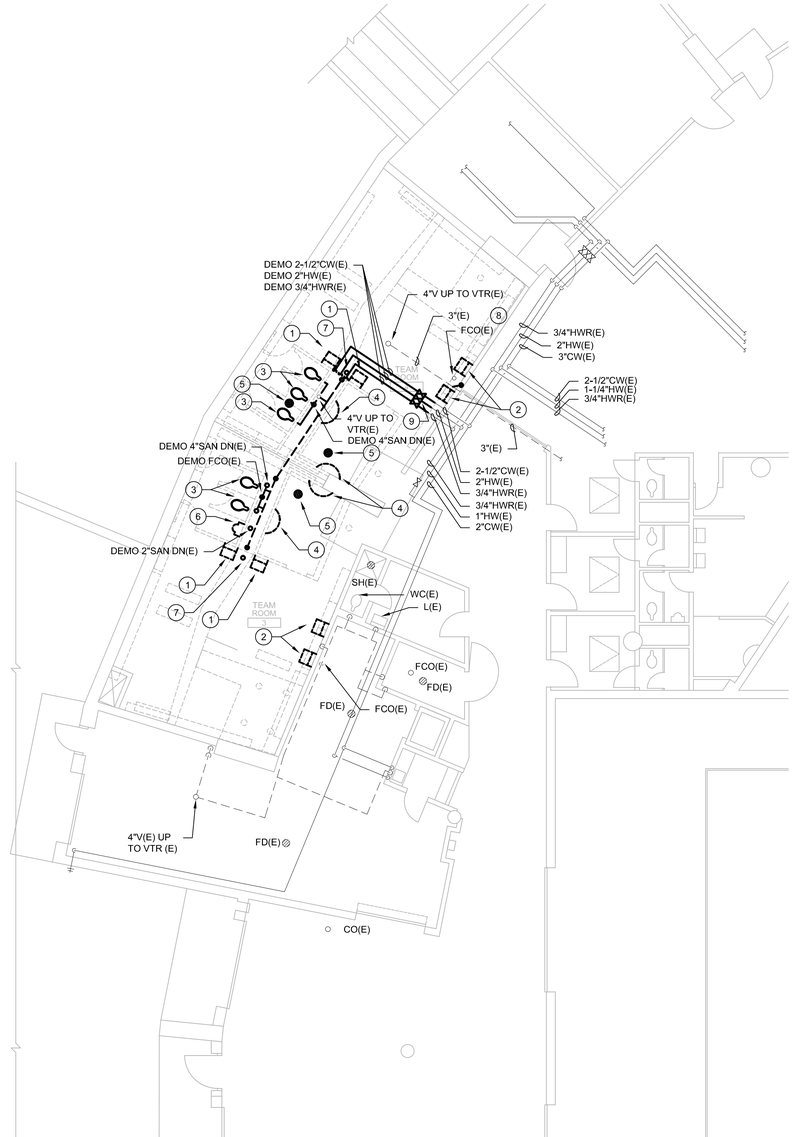
P100



1 P101 UNDERFLOOR DEMOLITION PLAN - TEAM ROOM 3 AND 4 - PLUMBING

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

NORTH



2 P101 DEMOLITION PLAN - TEAM ROOM 3 AND 4 - PLUMBING

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

NORTH

GENERAL PLUMBING NOTES:

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DRAWING

DEMOLITION – TEAM ROOM 3 AND 4 – PLUMBING

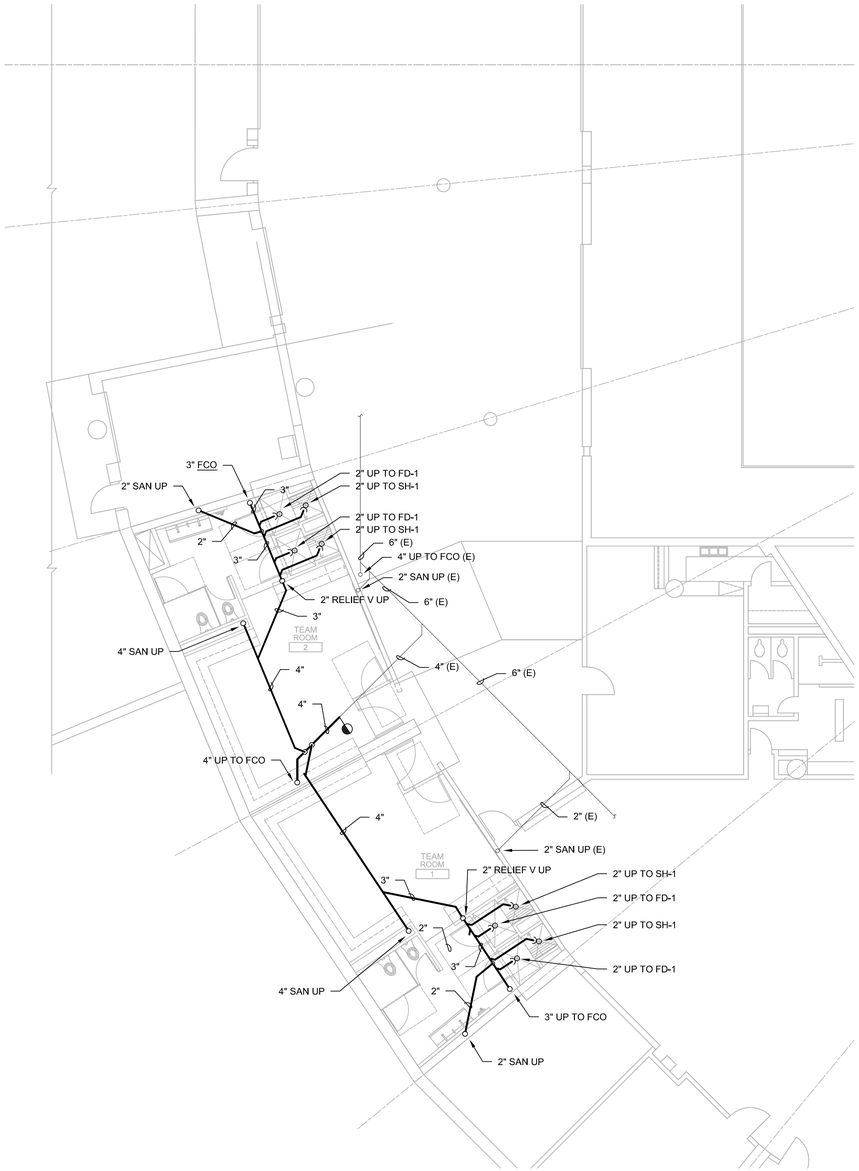
DATE

02.27.20

P101

GENERAL PLUMBING NOTES:

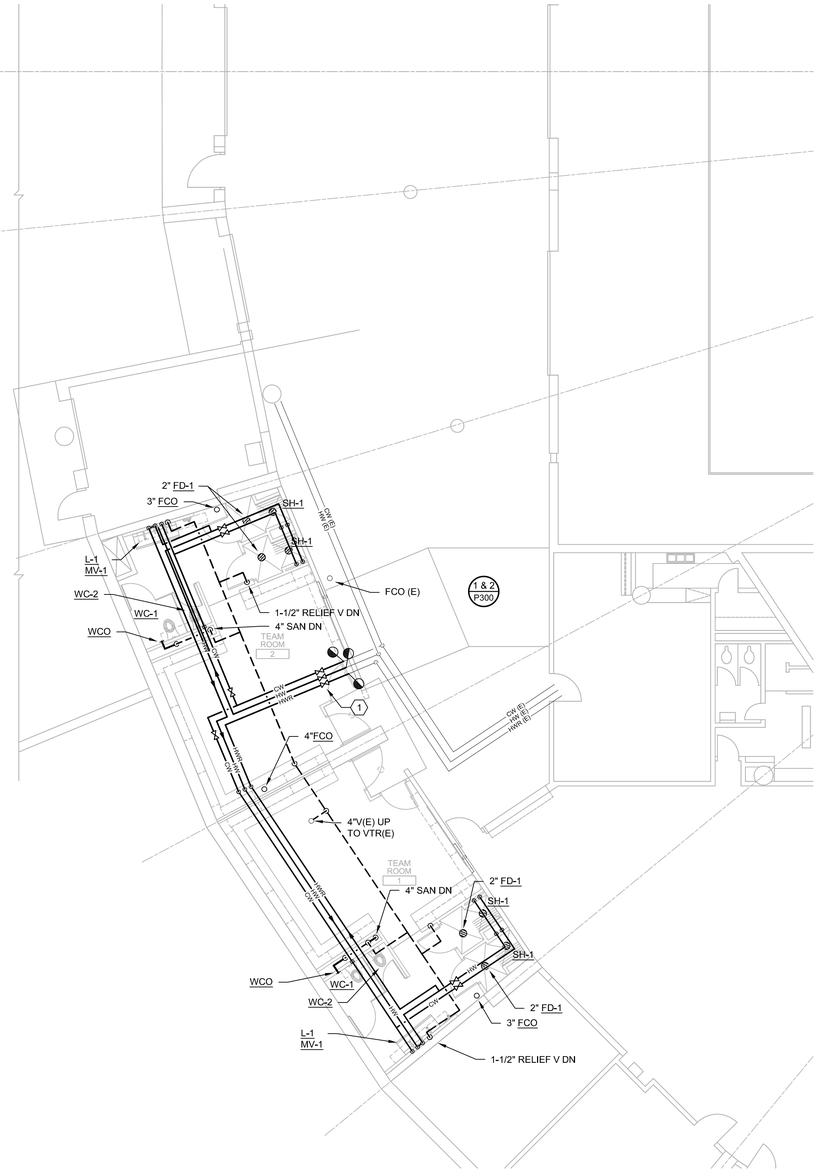
1. LOCATE THE UNDERGROUND HVAC DUCT ALONG THE PERIMETER OF THE BUILDING BEFORE DOING UNDERGROUND WORK.
2. 1/2" HW/CW TO SINGLE FIXTURES UNLESS NOTED.
3. 3/4" HW/CW TO MULTIPLE FIXTURES UNLESS NOTED.
4. PC SHALL BE RESPONSIBLE FOR ALL FLOOR SAW-CUTTING, AND REPAIR/PATCHING OF FLOOR, AS REQUIRED FOR PLUMBING TO PERFORM THE OUTLINED WORK IN THESE PLANS.



1 P200 UNDERFLOOR NEW WORK PLAN - TEAM ROOM 1 AND 2 - PLUMBING

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

NORTH



2 P200 NEW WORK PLAN - TEAM ROOM 1 AND 2 - PLUMBING

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

NORTH

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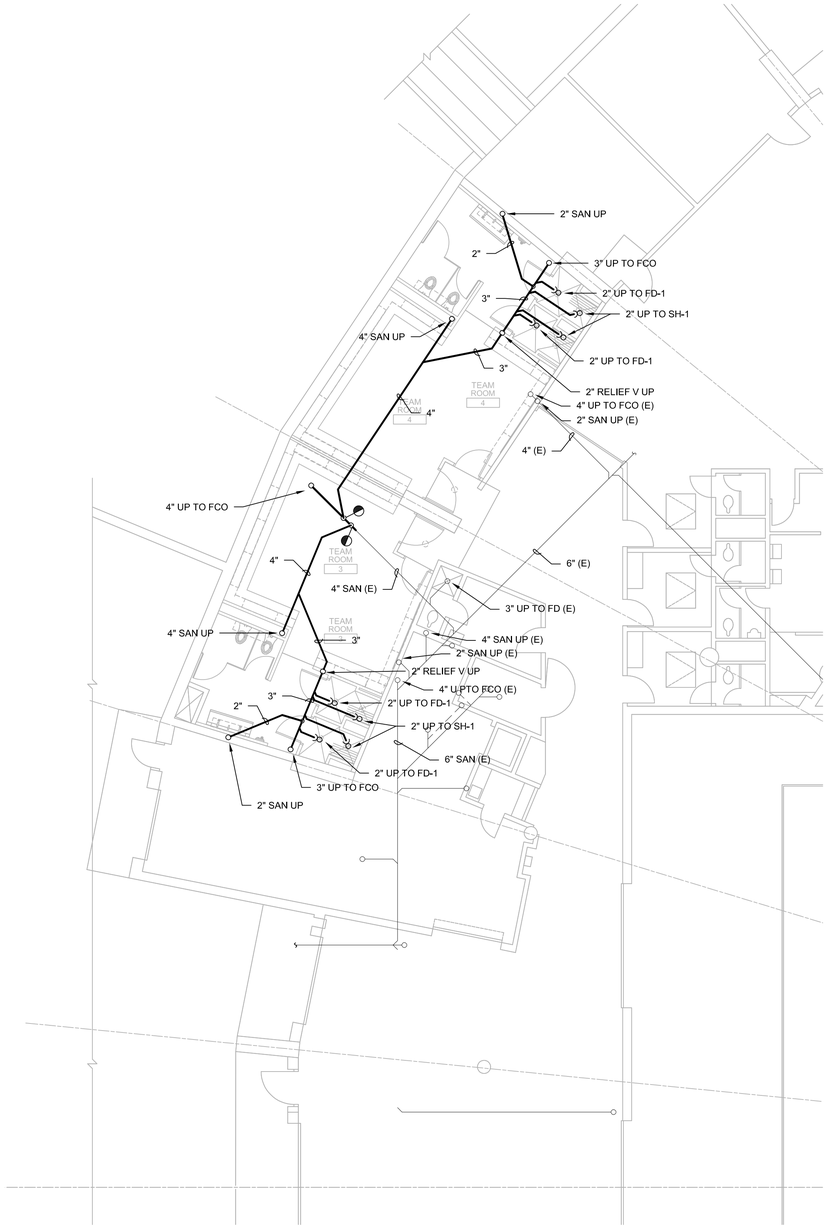
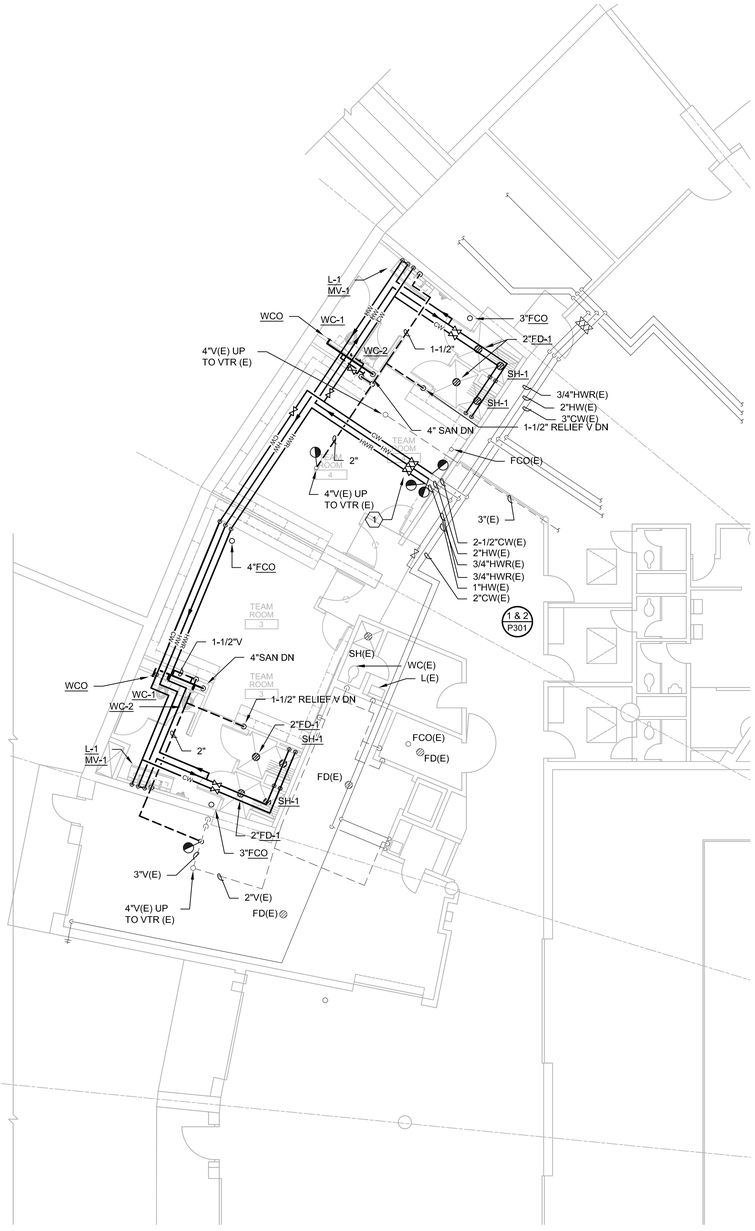
P200



1 P201 UNDERFLOOR NEW WORK PLAN - TEAM ROOM 3 AND 4 - PLUMBING

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

NORTH



2 P201 NEW WORK PLAN - TEAM ROOM 3 AND 4 - PLUMBING

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

NORTH

GENERAL PLUMBING NOTES:

1. LOCATE THE UNDERGROUND HVAC DUCT ALONG THE PERIMETER OF THE BUILDING BEFORE DOING UNDERGROUND WORK.
2. 1/2" HW/CW TO SINGLE FIXTURES UNLESS NOTED.
3. 3/4" HW/CW TO MULTIPLE FIXTURES UNLESS NOTED.
4. PC SHALL BE RESPONSIBLE FOR ALL FLOOR SAW-CUTTING, AND REPAIR/PATCHING OF FLOOR, AS REQUIRED FOR PLUMBING TO PERFORM THE OUTLINED WORK IN THESE PLANS.

KEYED PLUMBING NOTES:

1. REMOVE EXISTING VALVES AND PROVIDE NEW VALVES.

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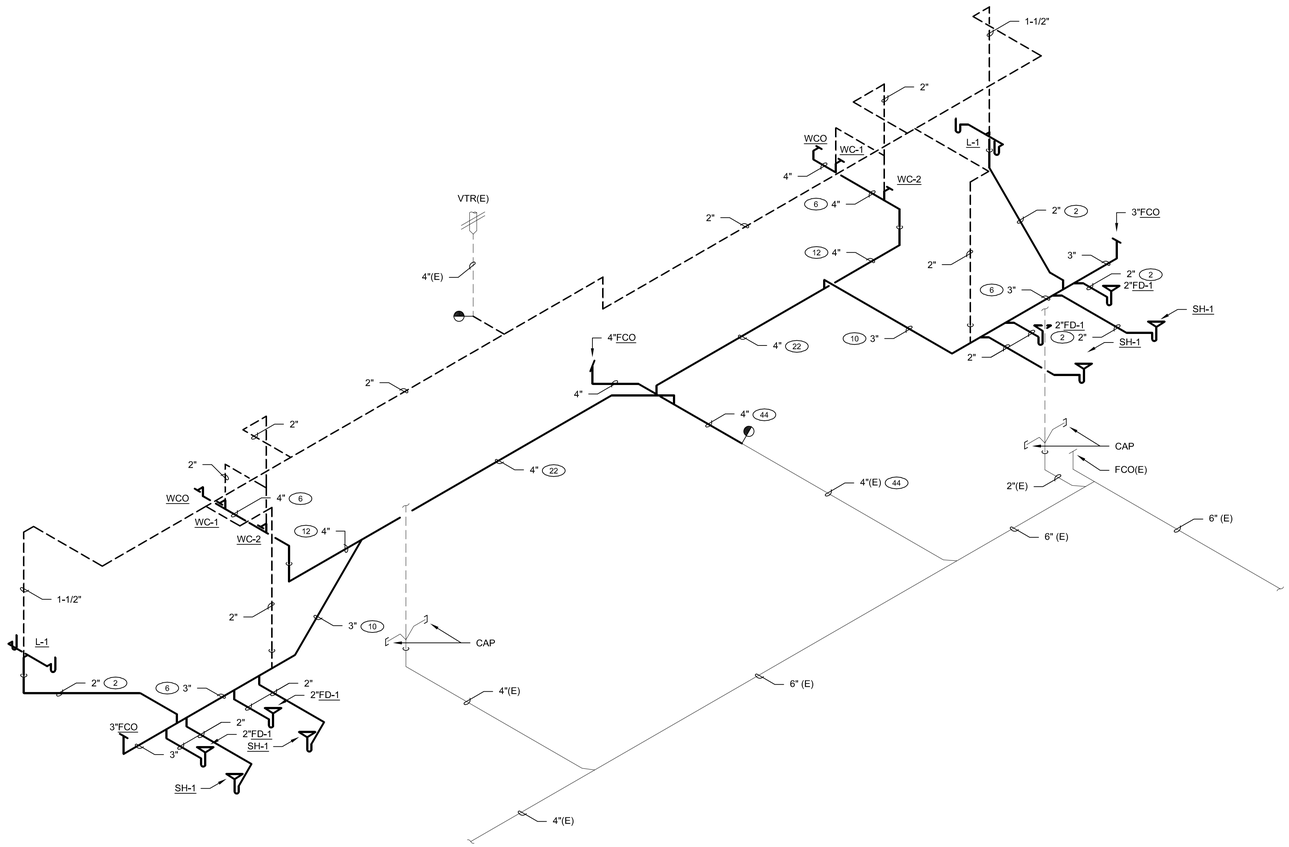
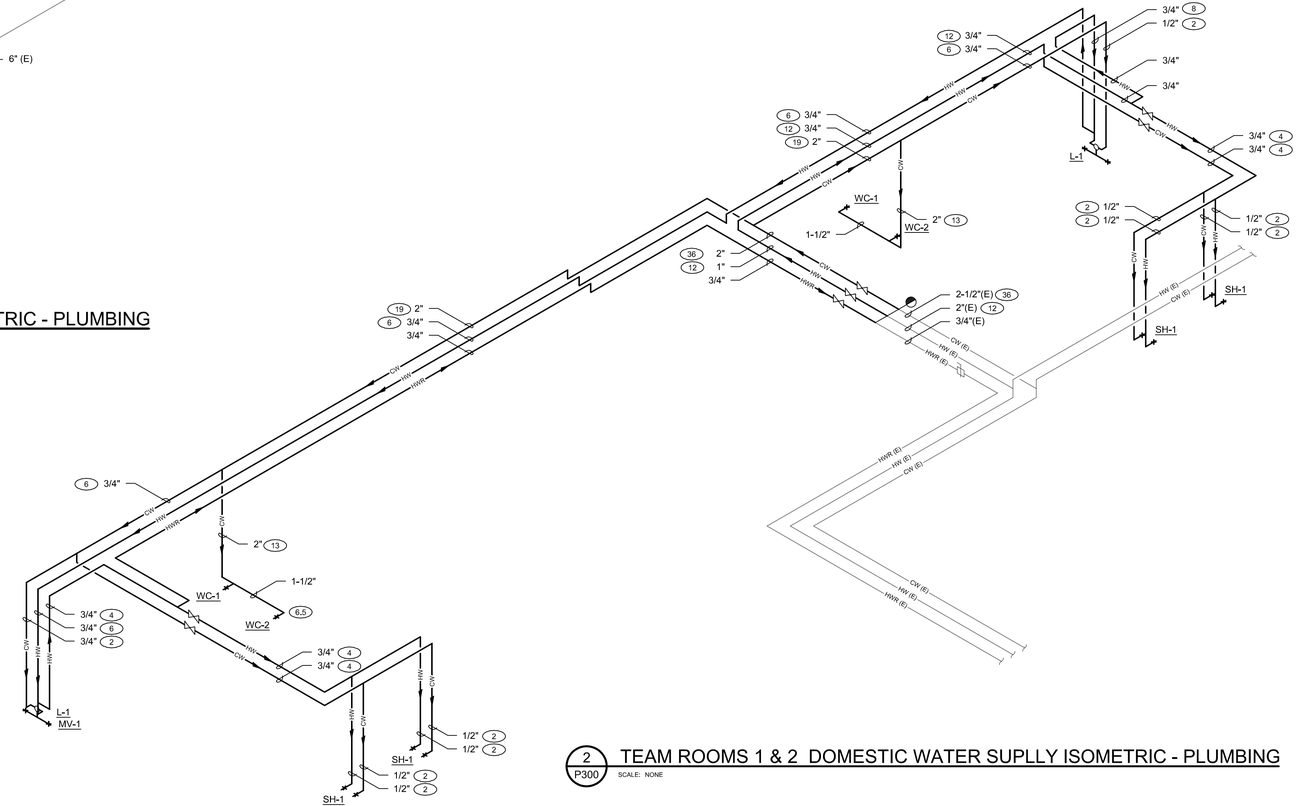


1 P300 TEAM ROOMS 1 & 2 WASTE & VENT ISOMETRIC - PLUMBING

SCALE: NONE



2 P300 TEAM ROOMS 1 & 2 DOMESTIC WATER SUPLLY ISOMETRIC - PLUMBING

SCALE: NONE

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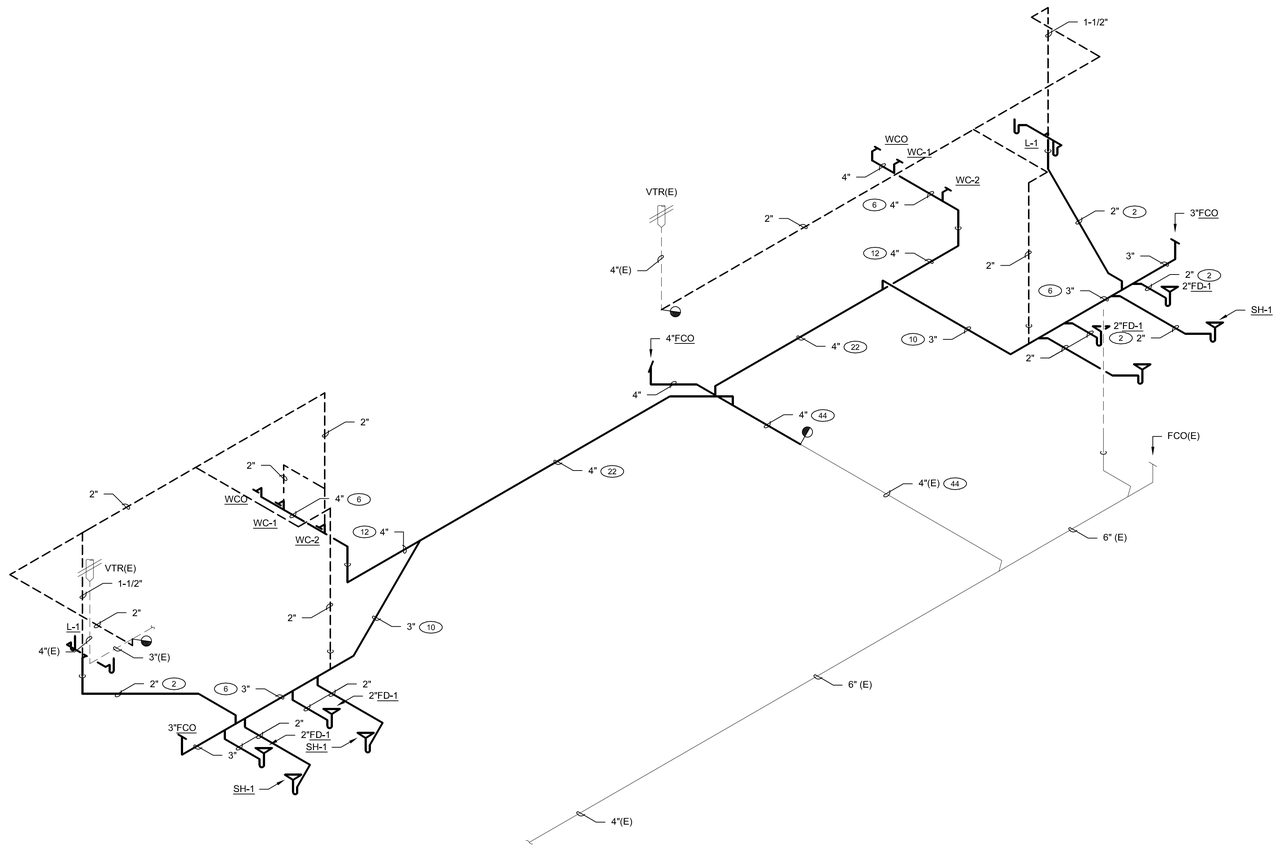
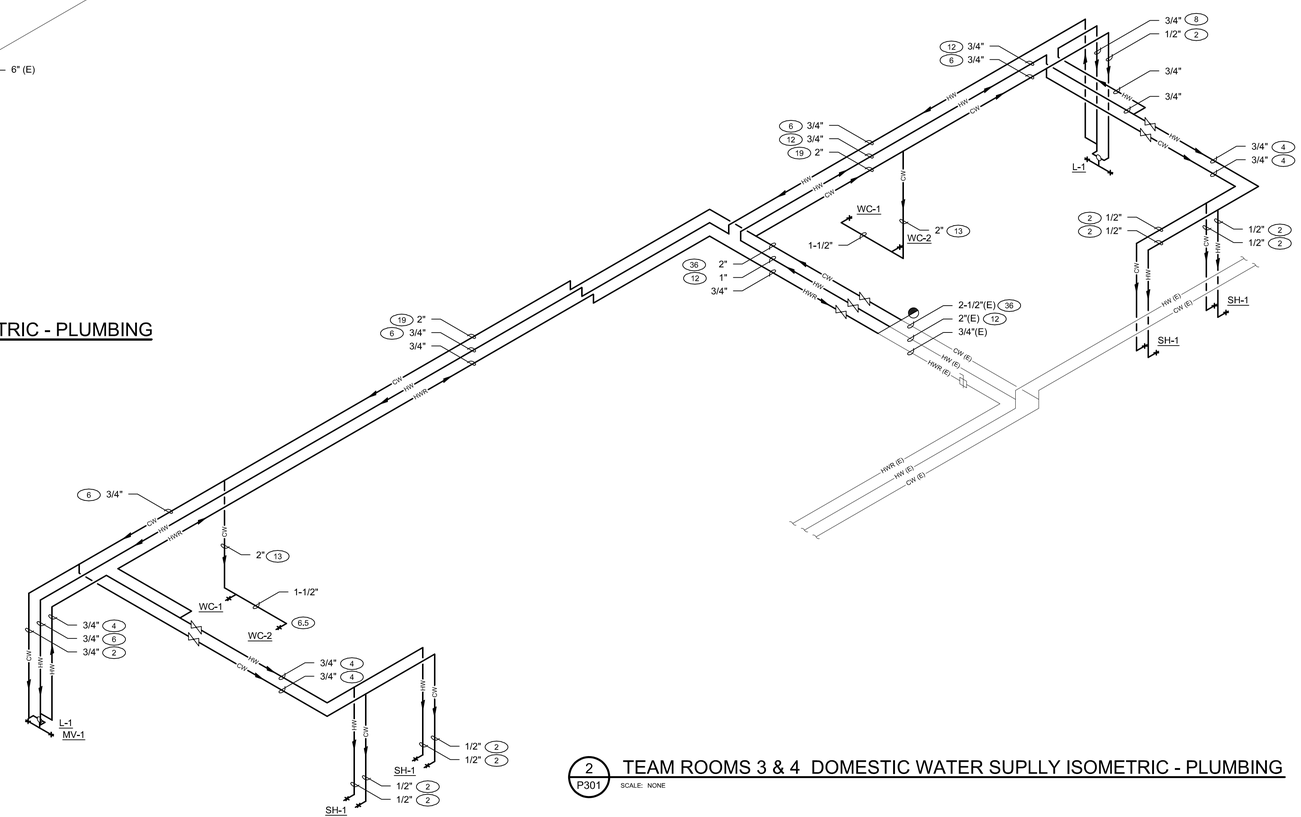


1 P301 TEAM ROOMS 3 & 4 WASTE & VENT ISOMETRIC - PLUMBING

SCALE: NONE



2 P301 TEAM ROOMS 3 & 4 DOMESTIC WATER SUPLLY ISOMETRIC - PLUMBING

SCALE: NONE

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ABBREVIATIONS

A	COMPRESSED AIR
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADJ	ADJUSTABLE
A/E	ARCHITECT/ENGINEER
AF	AIR FOIL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMP	AMPERE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AUTO	AUTOMATIC
B	BOILER
BB	BASEBOARD
BC	BOOSTER COIL
BCU	BLOWER COIL UNIT
BDD	BACK DRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BRG	BEARING
BTU	BRITISH THERMAL UNIT
C	CONVECTOR
CA	COMBUSTION AIR
CAB	CABINET
CCC	COOLING COIL CONDENSATE
CD	CEILING DIFFUSER
CF	CEILING (DESTRATIFICATION) FAN
CFM	CUBIC FEET PER MINUTE
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
CI	CAST IRON OR CUBIC INCH
CL	CENTERLINE
CLG	CEILING
CMU	CONCRETE MASONARY UNIT
COMB	COMBINATION OR COMBUSTION
CONC	CONCRETE
COND	CONDENSATE
CONTR	CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CU	COPPER
CUH	CABINET UNIT HEATER
CW	COLD WATER
D	DRAIN
DB	DRY BULB
DCO	DOOR CUTOFF BY GC
DDC	DIRECT DIGITAL CONTROL
DEPT	DEPARTMENT
DG	DOOR GRILLE BY GC
DIA	DIAMETER
DN	DOWN
DSA	DUCT SOUND ATTENUATOR
DSF	DESTRATIFICATION FAN
DWD	DUAL WALL DUCTWORK
DWDI	DOUBLE WIDTH DOUBLE INLET
DWG	DRAWING
E	EXISTING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EER	ENERGY EFFICIENCY RATIO
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
ER	EXHAUST REGISTER
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WALL HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXT	EXTERIOR OR EXTERNAL
°F	DEGREES FAHRENHEIT
F&T	FLOAT & THERMOSTAT TRAP
FA	FREE AREA
FC	FORWARD CURVED
FCU	FAN COIL UNIT
FD	FLOOR DRAIN OR FIRE DAMPER
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FS	FLOW SWITCH
FT	FOOT OR FEET
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GUH	GAS FIRED UNIT HEATER
HB	HOSE BIBB
HC	HEATING CONTRACTOR
HD	HUB DRAIN
HDT	HORIZONTAL DRAW THRU
HG	MERCURY
HGT	HEIGHT
HP	HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HPU	HEAT PUMP UNIT
HR	HOUR
HVAC	HEATING VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IN	INCH
INV	INVERT
IPLV	INTEGRATED PART LOAD VALUE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD	LINEAR DIFFUSER
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LR	LINEAR RETURN
LWT	LEAVING WATER TEMPERATURE
M	MOTOR OPERATED DAMPER
MAT	MIXED AIR TEMPERATURE
MA	MIXED AIR
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS/HOUR
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MFS	MAXIMUM FUSE SIZE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPLV	NOMINAL PART LOAD VALUE
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OAT	OUTDOOR AIR TEMPERATURE
OPD	OPPOSED BLADE DAMPER
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE CONDENSATE
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRE	POWER ROOF EXHAUST FAN
PRELIM	PRELIMINARY
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	REFRIGERANT
RA	RETURN AIR
RCP	RADIANT CEILING PANEL
RD	ROOF DRAIN
REQD	REQUIRED
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELIEF HOOD
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RR	RETURN REGISTER
RTU	ROOF TOP UNIT
S	SUPPLY
SA	SUPPLY AIR
SCR	SILICONE CONTROLLED RECTIFIERS
SD	SLOT DIFFUSER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SQ FT	SQUARE FEET
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
SWD	SINGLE WALL DUCTWORK
SWSI	SINGLE WIDTH SINGLE INLET
T	THERMOSTAT/TEMPERATURE SENSOR
TA	THROWAWAY
TCAC	TEMPERATURE CONTROL AIR COMPRESSOR
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TCV	TEMPERATURE CONTROL VALVE
TF	TRANSFER FAN
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TG	TRANSFER GRILLE
TS	TIP SPEED
TYP	TYPICAL
UH	UNIT HEATER
UNEX	UNEXCAVATED
V	VENT
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VSC	VARIABLE SPEED CONTROL
WB	WET BULB
WC	WATER COLUMN
WF	WALL FIN
WP	WEATHER PROOF
WPD	WATER PRESSURE DROP

PIPING SYSTEMS

GENERAL SHUTOFF VALVE
SEE SPECIFICATIONS FOR TYPE

BALL VALVE

GAUGE VALVE

BUTTERFLY VALVE

GATE VALVE

GLOBE VALVE

CALIBRATED BALANCE/SHUTOFF VALVE (FLOW MEASURING)

2-WAY TEMPERATURE CONTROL VALVE (PNEUMATIC OR ELECTRIC)

3-WAY TEMPERATURE CONTROL VALVE (PNEUMATIC OR ELECTRIC)

CHECK VALVE

DRAIN VALVE (W/ HOSE CONNECTION & BRASS CAP)

LOCK SHIELD VALVE

NEEDLE VALVE

PRESSURE REDUCING VALVE

BLIND FLANGE

CAP

CONNECTION, BOTTOM

CONNECTION, TOP

ELBOW, TURNED UP

ELBOW, TURNED DOWN

V — AIR VENT

VB — VACUUM BREAKER

PIPE ALIGNMENT GUIDE

PIPE ANCHOR

BALL JOINT

EXPANSION JOINT

EXPANSION LOOP

FLEXIBLE CONNECTOR

STEAM TRAP

FS — FLOW SWITCH

T — TEMPERATURE SENSOR

PITCH OF PIPE

P — PRESSURE GAUGE AND COCK

PS — PRESSURE SWITCH

PUMP

STRAINER

STRAINER, W/ BLOW DOWN VALVE

THERMOMETER

THERMOMETER WELL, ONLY

PETES PLUG

BFP — BACKFLOW PREVENTER

FLOW DIRECTION IN PIPES

HANGERS

UNION

PIPE FLANGE

HPS — HIGH-PRESSURE STEAM

LPS — LOW-PRESSURE STEAM

HPC — HIGH-PRESSURE CONDENSATE

LPC — LOW-PRESSURE CONDENSATE

PD — PUMP DISCHARGE CONDENSATE (STEAM)

CCC — COOLING COIL CONDENSATE

CW — COLD WATER (DOMESTIC)

MU — MAKEUP WATER

V — ATMOSPHERIC VENT

HWS — HOT WATER SUPPLY

HWR — HOT WATER RETURN

RHG — REFRIGERANT HOT GAS

RS — REFRIGERANT SUCTION

RL — REFRIGERANT LIQUID

CWS — CHILLED WATER SUPPLY

CWR — CHILLED WATER RETURN

D — DRAIN

GENERAL NOTES:

1. SEE SPECIFICATION, DETAILS AND SCHEDULES FOR COMPLETE SCOPE OF WORK.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT ANY DISCREPANCIES TO THE A/E IMMEDIATELY.
3. CONTRACTOR SHALL SUBMIT DUCTWORK LAYOUTS/PLANS FOR A/E REVIEW PRIOR TO FABRICATION AND PRIOR TO INSTALLATION OF ANY WORK.
4. THE BUILDING IS TO REMAIN OCCUPIED DURING CONSTRUCTION AND THE AIR HANDLER SERVING THIS AREA WILL CONTINUE TO OPERATE. SUPPLY AND RETURN DUCTWORK SHALL BE PROTECTED FROM THE ENTRANCE OF CONSTRUCTION DUST, DIRT, AND DEBRIS. INSTALL TEMPORARY MERV 7 FILTERS ON RETURN AIR OPENINGS DURING CONSTRUCTION. CHANGE FILTER WEEKLY. SEE ARCHITECTURAL PLANS FOR ANY PHASING SCHEDULES AND/OR AREAS.
5. WHERE PNEUMATIC CONTROLS ARE INDICATED TO BE REMOVED, REMOVE ALL PNEUMATIC CONTROL TUBING BACK TO THE POINT REQUIRED TO BE ACTIVE.
6. PNEUMATIC TUBING LOCATED DIRECTLY IN CONCRETE FLOORS CAN BE ABANDONED IN PLACE, PROVIDED THAT THE TUBING IS REMOVED TO BELOW FLOOR LEVEL (SO THAT NEW FLOORING IS NOT AFFECTED) AND SEALED OR FILLED TIGHT.
7. COORDINATE ALL INTERRUPTIONS WITH DANE COUNTY FACILITIES MANAGEMENT (DCFM) PRIOR TO STARTING WORK.
8. ALL DUCTWORK, PIPING, EQUIPMENT, ETC. NOTED FOR DEMOLITION SHALL BE REMOVED COMPLETE.
9. ALL EXISTING ABANDONED DUCTWORK, PIPING, EQUIPMENT, ETC. IN THE CEILING SHALL BE REMOVED COMPLETE.
10. PIPING NOTED FOR DEMOLITION SHALL BE REMOVED BACK TO THE POINT REQUIRED TO REMAIN ACTIVE AND CAPPED.
11. ANY DUCTWORK CONNECTIONS NOT TO BE REUSED SHALL BE SHEETMETAL PATCHED, SEALED, AND INSULATED WITH COMPLETE VAPOR BARRIER.
12. ANY EXISTING TO REMAIN GRILLES, REGISTERS, DIFFUSERS, CONVECTORS, ETC. SHALL BE PROTECTED DURING CONSTRUCTION.
13. SEE REFLECTED CEILING PLANS FOR AREAS WHERE EXISTING CEILINGS WILL BE REMOVED BY THE GC AND NEW CEILING WILL BE INSTALLED (BY GC). THE HC IS RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ALL OTHER CEILING REQUIRED TO PERFORM HVAC WORK.
14. ALL EXPOSED DUCT SHALL BE CONSTRUCTED WITH PAINT GRIP GALVANIZED SUITABLE FOR PAINTING BY THE GC.
15. GC TO PROVIDE XX SF DOOR GRILLE IN ALL SHOWER DOORS.

DUCTWORK SYSTEMS

20/12 — DUCT SIZE, (FIRST FIGURE IS SIDE SHOWN)

12" Ø — ROUND DUCT

20/12 Ø — OVAL DUCT

UP/DN — CHANGE OF ELEVATION IN DIRECTION OF AIR FLOW

AD — ACCESS DOOR, VERTICAL OR HORIZONTAL

ACOUSTICAL DUCT LINER

FLEXIBLE CONNECTION

DUCT SOUND ATTENUATOR

DUCT TRANSITION (DOUBLE LINE)

DUCT TRANSITION (RECT. TO ROUND)

DUCT TRANSITION (SINGLE LINE)

HIDDEN DUCTWORK

M — MOTOR OPERATED DAMPER

MANUAL VOLUME DAMPER

S — SMOKE DETECTOR

SMOKE DAMPER

NEW / EXISTING — FIRE DAMPER

STANDARD BRANCH, SUPPLY, RETURN, OR EXHAUST, NO SPLITTER

ROOF VENTILATOR OR HOOD ON ROOF ABOVE

DUCT CAP

END OF DUCT

EXISTING / EXISTING / NEW / NEW — POSITIVE PRESSURE DUCT SECTION

POSITIVE PRESSURE DUCT (DOWN OR AWAY)

EXISTING / EXISTING / NEW / NEW — NEGATIVE PRESSURE DUCT SECTION

NEGATIVE PRESSURE DUCT (DOWN OR AWAY)

FLEXIBLE DUCT DIFFUSER CONNECTION

OR — SIDEWALL AIR DEVICE

EXHAUST, RETURN, OR TRANSFER AIR DEVICE

SUPPLY AIR DEVICE

SIZE — TRANSFER GRILLE ASSEMBLY

LOUVER AND BIRD SCREEN

DG, X.X Ø FA — DOOR GRILLE

DCO — DOOR CUTOFF (UNDERCUT) BY GC

ELBOW WITH TURNING VANES

UNIT HEATER

AIR FLOW

EXISTING / NEW — POINT OF NEW CONNECTION (PIPE OR DUCT)

SQUARE FEET

ELEVATION SYMBOL

GENERAL SYMBOLS

T — THERMOSTAT OR TEMPERATURE SENSOR

T — THERMOSTAT OR TEMPERATURE SENSOR WITH SECURITY COVER

H — HUMIDISTAT OR HUMIDITY SENSOR

H — HUMIDISTAT OR HUMIDITY SENSOR WITH SECURITY COVER

MOTOR STARTER

S — SPEED CONTROLLER

$ — START/STOP SWITCH

CO2 — CARBON DIOXIDE SENSOR

EXISTING TO REMAIN (DUCTWORK, PIPING, & EQUIPMENT)

EXISTING TO BE REMOVED (DUCTWORK, PIPING, & EQUIPMENT)

NEW DUCTWORK/PIPING

NEW EQUIPMENT

HVAC SHEET INDEX

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COLISEUM LOCKER ROOM REMODEL
ALLIANT ENERGY CENTER
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN

DRAWING
ABBREVIATIONS AND SYMBOLS – HVAC

DATE
02.27.20

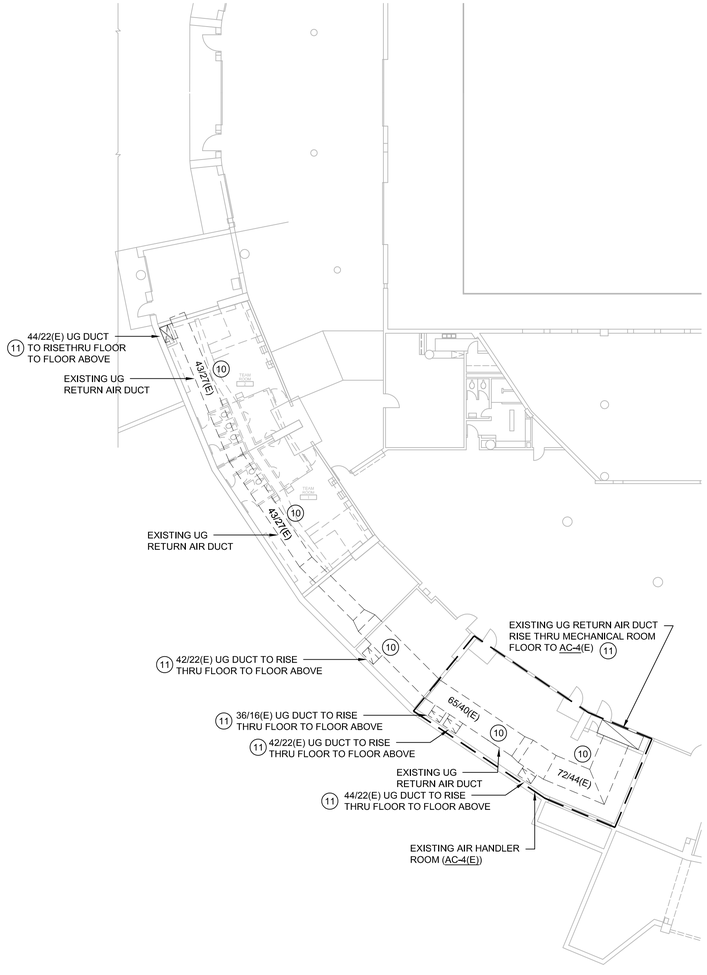
M000

KEYED HVAC NOTES:

1. REMOVE EXISTING EXHAUST DUCT BACK TO THIS LOCATION.
2. REMOVE EXISTING SUPPLY DUCT BACK TO THIS LOCATION.
3. REMOVE OVAL SUPPLY DUCT UP TO POINT JUST BELOW BOTTOM OF STRUCTURE. PREPARE FOR NEW CONNECTION. SEE NEW WORK PLAN.
4. REMOVE EXISTING STEAM CABINET UNIT HEATER COMPLETE INCLUDING ALL VALVES, TRAPS, BRANCH LPS/LPC PIPING, CONTROLS, HANGERS, ETC. REMOVE ALL PNEUMATIC CONTROL TUBING BACK TO POINT REQUIRED TO BE ACTIVE AND CAP. EC TO DISCONNECT POWER.
5. REMOVE LPS MAIN BACK TO THIS POINT. SEE NEW WORK PLAN FOR CAP OF PIPING.
6. REMOVE EXISTING STEAM UNIT HEATER COMPLETE INCLUDING ALL VALVES, TRAPS, BRANCH LPS/LPC PIPING, CONTROLS, HANGERS, ETC. REMOVE ALL PNEUMATIC CONTROL TUBING BACK TO POINT REQUIRED TO BE ACTIVE AND CAP. EC TO DISCONNECT POWER.

KEYED HVAC NOTES (CONTINUED):

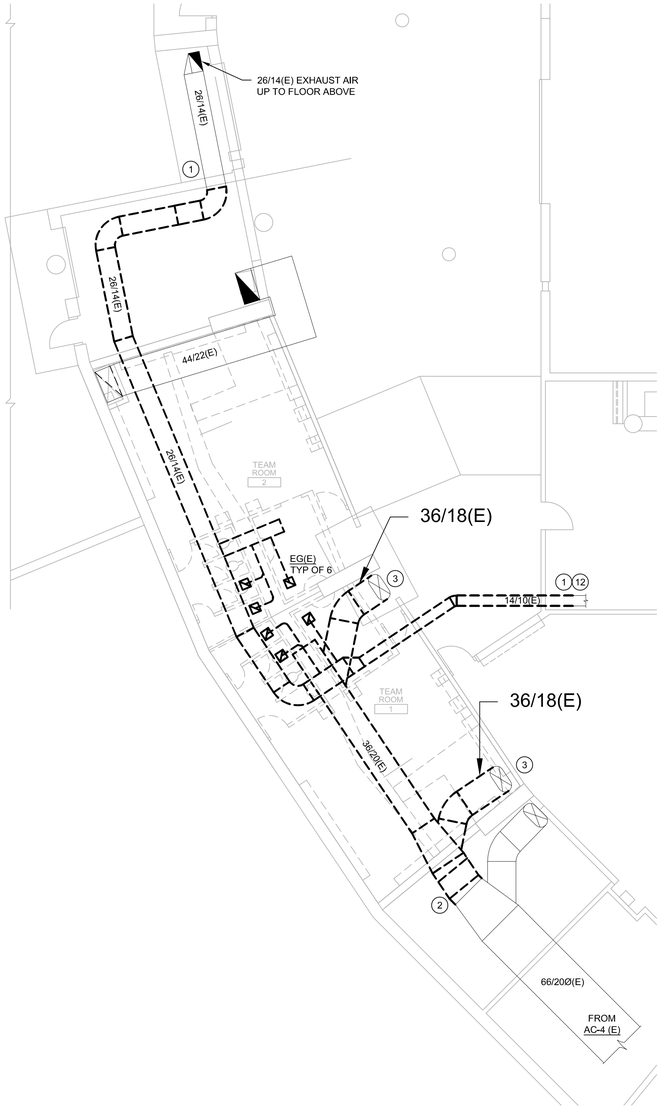
7. REMOVE EXISTING DRIP END OF MAIN.
8. REMOVE LPC BACK TO THIS POINT. PREPARE FOR CAP.
9. REMOVE EXISTING ELECTRIC UNIT HEATER. EC TO DISCONNECT POWER AND REMOVE THERMOSTAT.
10. CLEAN ALL EXISTING UNDERGROUND RETURN AIR DUCT.
11. CLEAN EXISTING VERTICAL DUCT RISER FROM UNDERGROUND UP TO PENETRATION OF FLOOR ABOVE.
12. HC TO REMOVE/REINSTALLING EXISTING CEILING TO PERFORM DUCT MODIFICATIONS.



1 M100 UNDERGROUND DEMOLITION PLAN - TEAM ROOM 1 AND 2 - HVAC

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

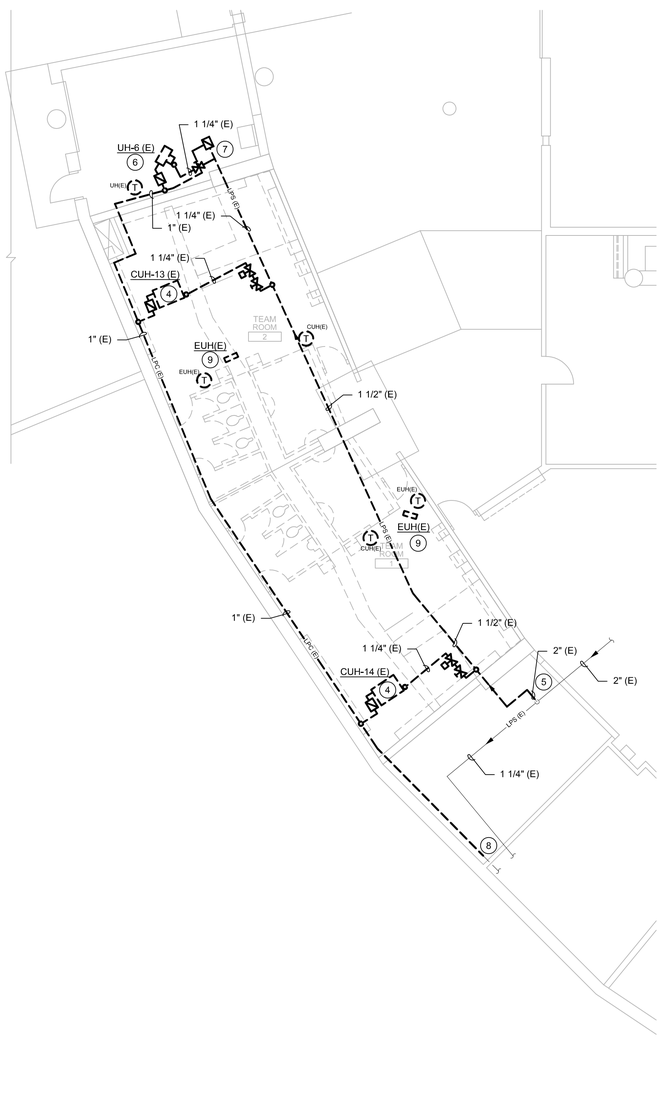
NORTH



2 M100 DEMOLITION PLAN - TEAM ROOM 1 AND 2 - HVAC DUCT

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

NORTH



3 M100 DEMOLITION PLAN - TEAM ROOM 1 AND 2 - HVAC PIPE

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

NORTH

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DRAWING
DEMOLITION – TEAM ROOM 1 AND 2 – HVAC

DATE
02.27.20

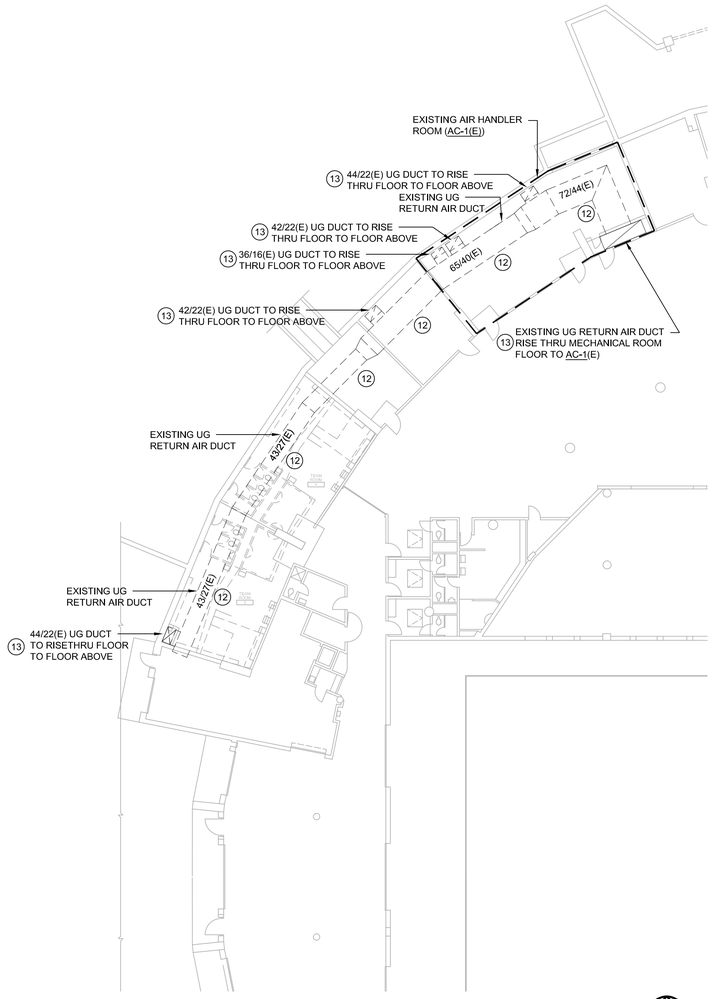
M100

KEYED HVAC NOTES:

1. REMOVE EXISTING EXHAUST DUCT BACK TO THIS LOCATION.
2. REMOVE EXISTING SUPPLY DUCT BACK TO THIS LOCATION.
3. REMOVE OVAL SUPPLY DUCT UP TO POINT JUST BELOW BOTTOM OF STRUCTURE. PREPARE FOR NEW CONNECTION. SEE NEW WORK PLAN.
4. REMOVE EXISTING STEAM CABINET UNIT HEATER COMPLETE INCLUDING ALL VALVES, TRAPS, BRANCH LPS/LPC PIPING, CONTROLS, HANGERS, ETC. REMOVE ALL PNEUMATIC CONTROL TUBING BACK TO POINT REQUIRED TO BE ACTIVE AND CAP. EC TO DISCONNECT POWER.
5. REMOVE LPS MAIN BACK TO THIS POINT AND CAP. PROVIDE INSULATION OVER CAP.
6. EXISTING STEAM UNIT HEATER TO REMAIN. REMOVE EXISTING BRANCH LPS, LPC, VALVES AND TRAP. RETAIN TCV FOR REINSTALLATION.

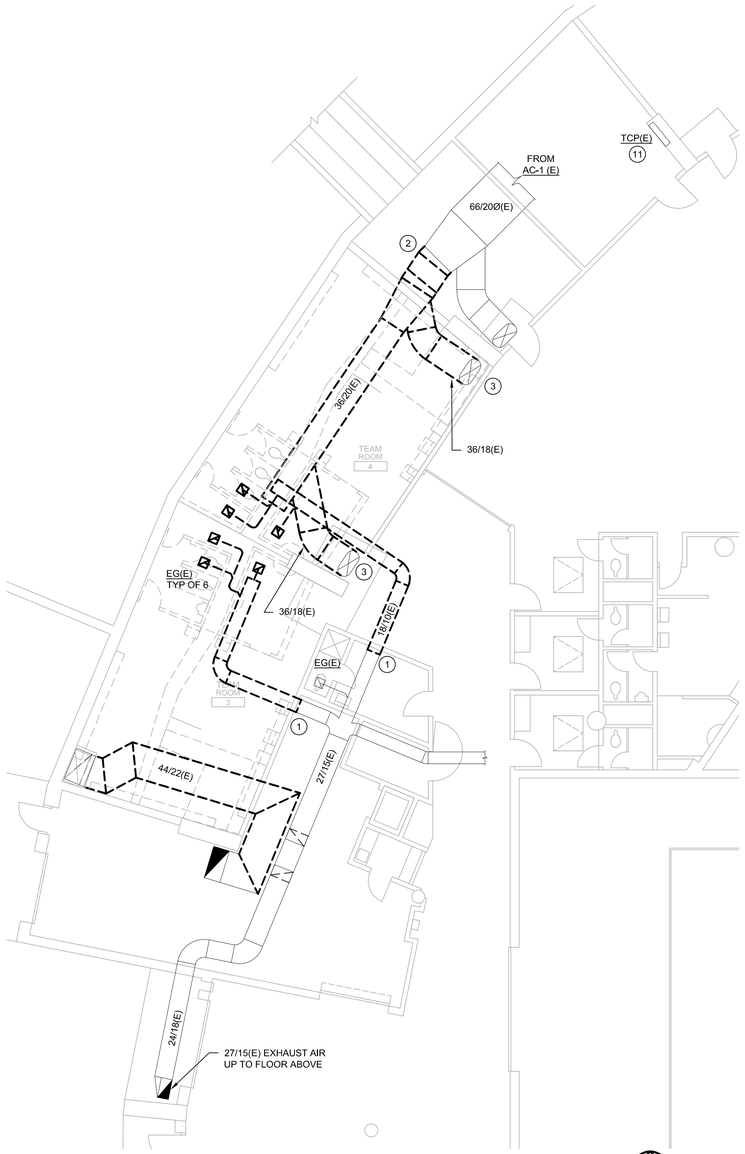
KEYED HVAC NOTES (CONTINUED):

7. REMOVE EXISTING DRIP END OF MAIN.
8. REMOVE LPC BACK TO THIS POINT.
9. REMOVE EXISTING ELECTRIC UNIT HEATER. EC TO DISCONNECT POWER AND REMOVE THERMOSTAT.
10. EXISTING STEAM CONDENSATE PUMP TO REMAIN UNALTERED.
11. LOCATION OF EXISTING DIRECT DIGITAL CONTROL PANEL.
12. CLEAN ALL EXISTING UNDERGROUND RETURN AIR DUCT.
13. CLEAN EXISTING VERTICAL DUCT RISER FROM UNDERGROUND UP TO PENETRATION OF FLOOR ABOVE.



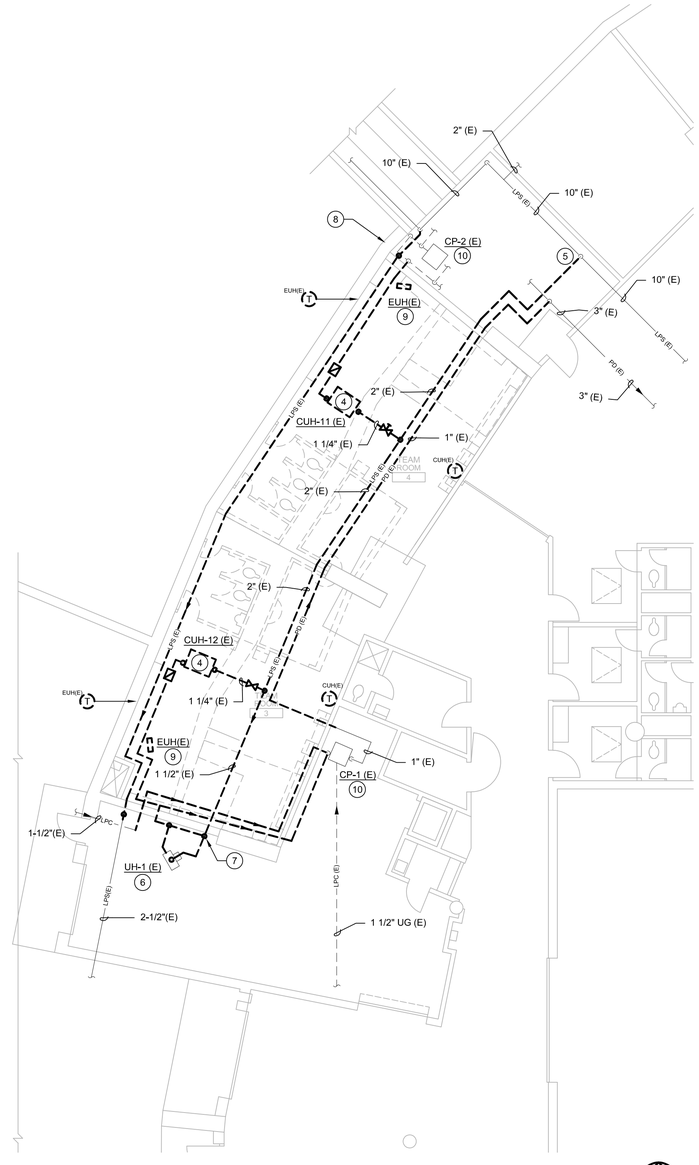
1 M101 UNDERGROUND DEMOLITION PLAN - TEAM ROOM 3 AND 4 - HVAC
SCALE: 1/16"=1'-0"

NORTH



2 M101 DEMOLITION PLAN - TEAM ROOM 3 AND 4 - HVAC DUCT
SCALE: 1/8"=1'-0"

NORTH



3 M101 DEMOLITION PLAN - TEAM ROOM 3 AND 4 - HVAC PIPE
SCALE: 1/8"=1'-0"

NORTH

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DRAWING
DEMOLITION – TEAM ROOM 3 AND 4 – HVAC

DATE
02.27.20

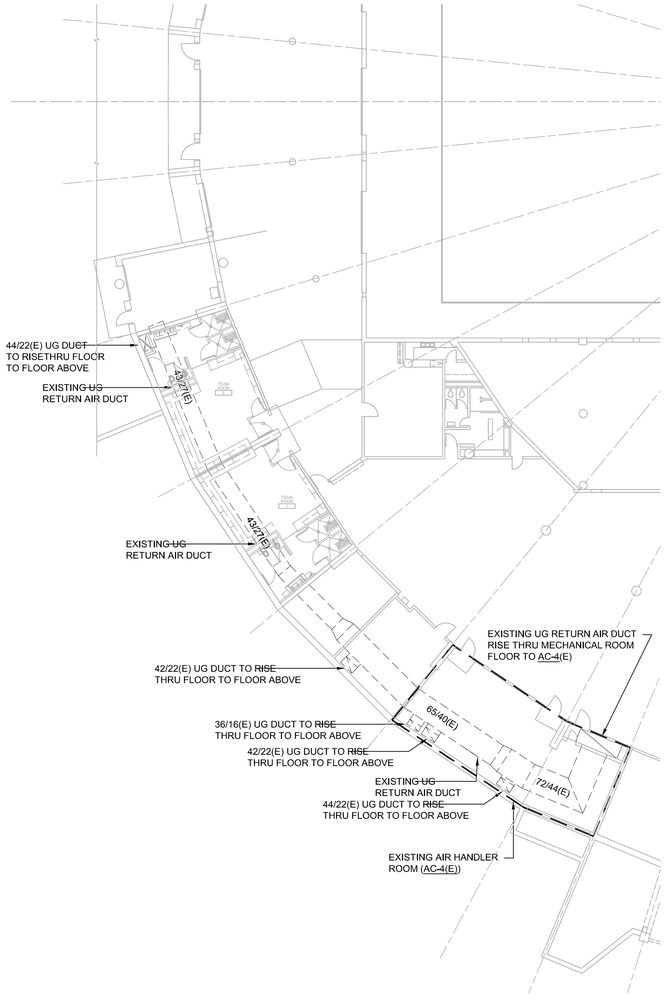
M101

KEYED HVAC NOTES:

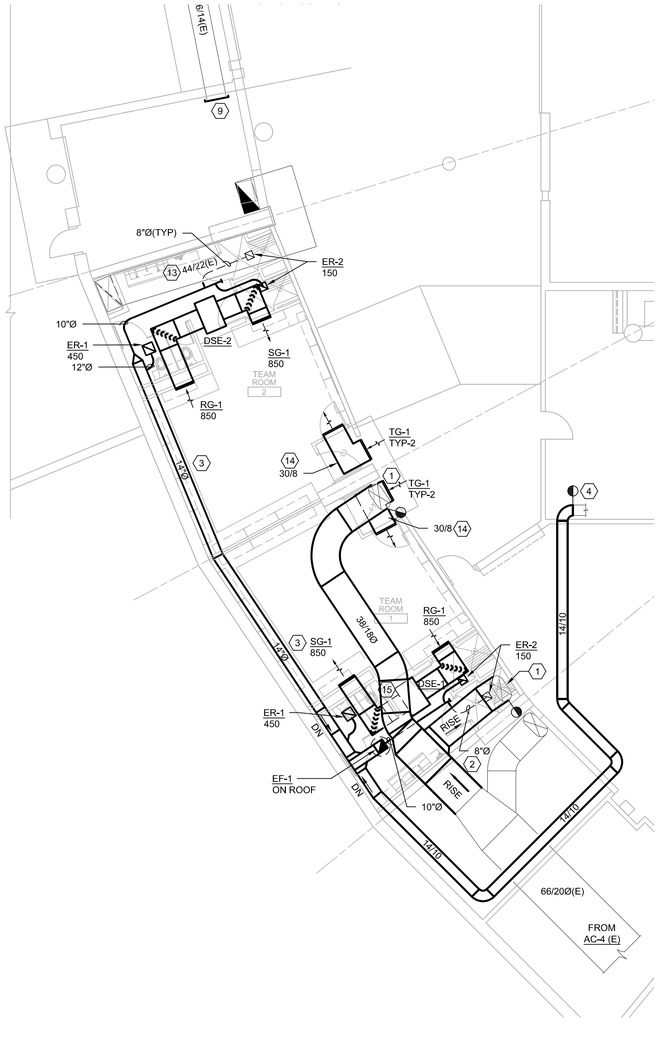
1. CONNECT NEW SUPPLY DUCT TO EXISTING VERTICAL SUPPLY DUCT AS HIGH AS POSSIBLE AND ABOVE GWB CEILING. SEE ARCH. CONNECTION TO BE JUST BELOW EXISTING STRUCTURE.
2. CONNECT NEW SUPPLY DUCT TO EXISTING. DUCT TO OFFSET HIGH TIGHT TO STRUCTURE THRU WALL.
3. TOP OF EXHAUST DUCT TO BE TIGHT TO BOTTOM OF STRUCTURE. EXHAUST DUCT IN TEAM ROOMS SHALL BE PAINT GRIP GALVANIZED SUITABLE FOR FINAL FINISHING BY THE GC.
4. CONNECT TO EXISTING EXHAUST DUCT. BALANCE TO 600 CFM. HC TO REMOVE / REINSTALL CEILING.
5. CAP AND INSULATE BRANCH STEAM PIPE AT EXISTING STEAM MAIN.
6. CAP AND INSULATE BRANCH CONDENSATE PIPE AT EXISTING STEAM CONDENSATE MAIN.
7. 3/4" COOLING COIL CONDENSATE. PROVIDE TRAP. TERMINATE AT FLOOR NEAR FLOOR DRAIN.

KEYED HVAC NOTES (CONTINUED):

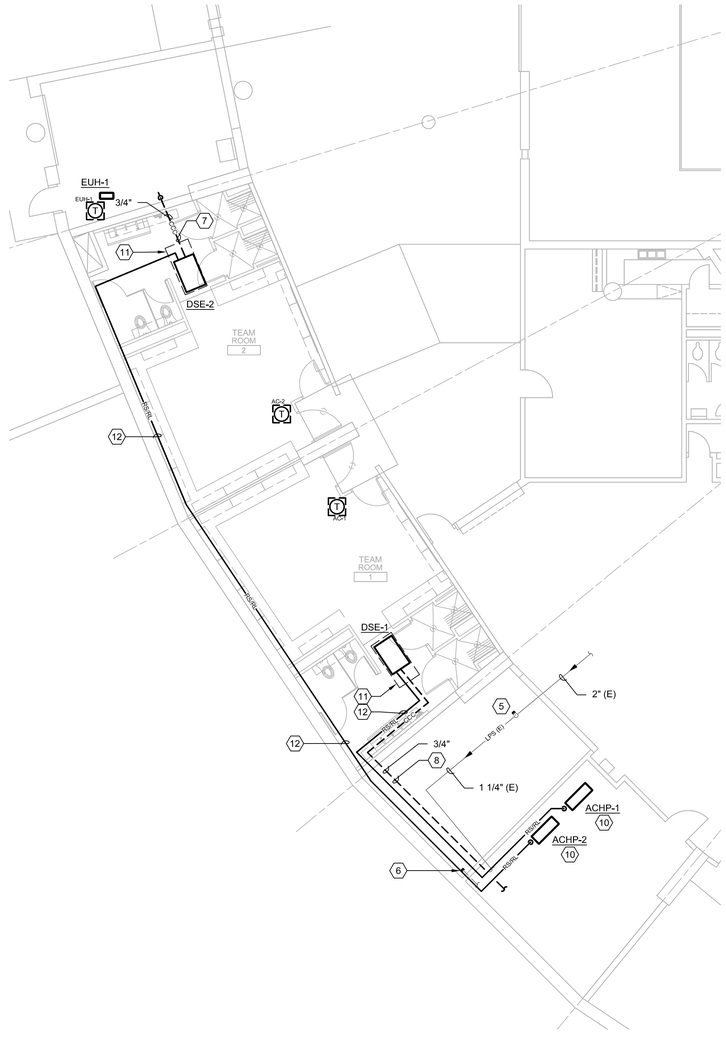
8. 3/4" COOLING COIL CONDENSATE. PROVIDE TRAP. EXTEND CONDENSATE PIPE TO ADJACENT AIR HANDLER ROOM AND TERMINATE AT HUB DRAIN.
9. CAP AND SEAL EXISTING EXHAUST DUCT AIR TIGHT.
10. MOUNT AIR COOLED HEAT PUMP INSIDE BUILDING. HEAT PUMP TO BE MOUNTED TO ON BRACKETS ATTACHED TO WALL AND APPROXIMATEY 14" ABOVE THE FLOOR. PROVIDE AND INSTALL ALL BRACKETS AND HARDWARE. PROVIDE ALL REQUIRED MAINTENANCE AND OPERATING CLEARANCES AROUND UNIT.
11. 68"x32" CEILING ACCESS PANEL PROVIDED AND INSTALLED BY GC. COORDINATE EXACT LOCATION WITH GC TO MAINTAIN ALL REQUIRED SERVICE ACCESS CLEARANCES.
12. SIZE RS AND RL PER THIS SPECIFIC APPLICATION AND INSTALLATION.
13. CLEAN EXISTING RETURN AIR DUCT.
14. 1" LINING ON TRANSFER AIR DUCT.
15. OFFSET AND CONTINUE TO RISE TIGHT TO BOTTOM OF STRUCTURE.



1 M200 UNDERGROUND NEW WORK PLAN - TEAM ROOM 1 AND 2 -HVAC
SCALE: 1/16"=1'-0"
NORTH



2 M200 NEW WORK PLAN - TEAM ROOM 1 AND 2 - HVAC DUCT
SCALE: 1/8"=1'-0"
NORTH



3 M20 NEW WORK PLAN - TEAM ROOM 1 AND 2 - HVAC PIPE
SCALE: 1/8"=1'-0"
NORTH

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NEW WORK – TEAM ROOM 1 AND 2 – HVAC

DATE
02.27.20

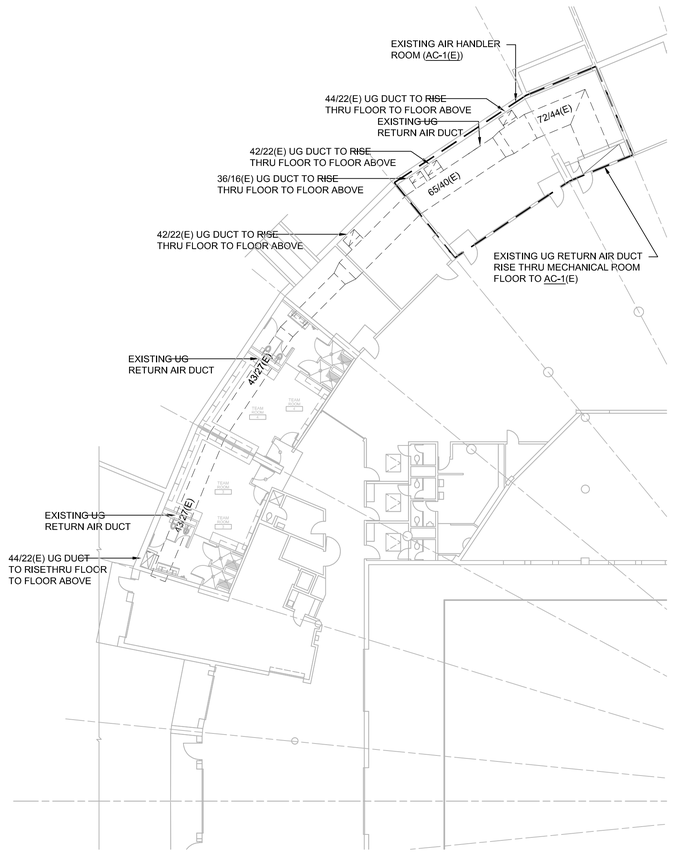
M200

KEYED HVAC NOTES:

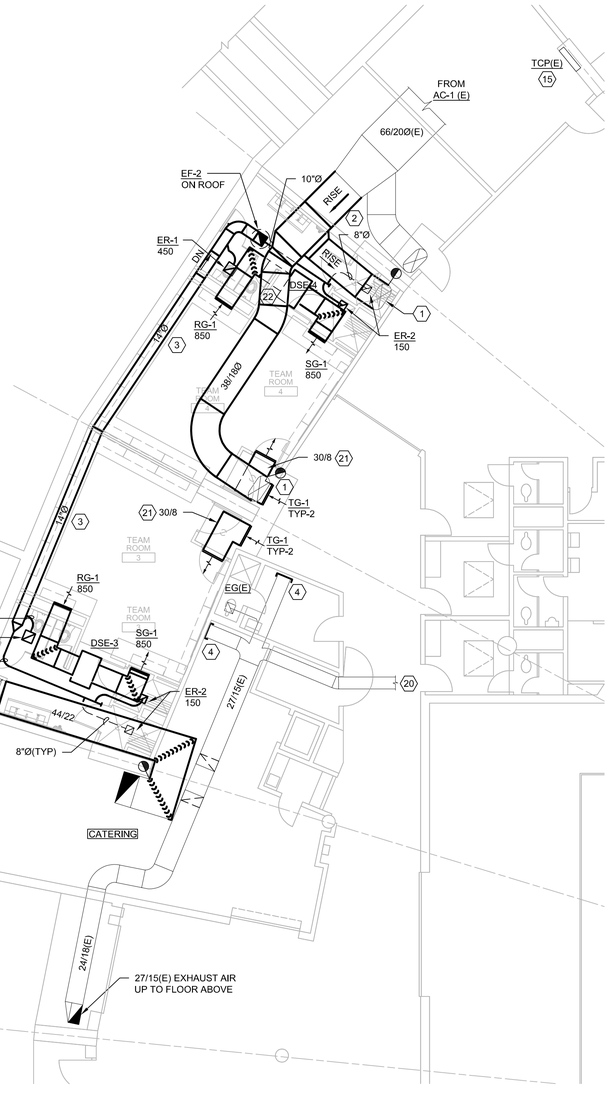
1. CONNECT NEW SUPPLY DUCT TO EXISTING VERTICAL SUPPLY DUCT AS HIGH AS POSSIBLE AND ABOVE GWB CEILING. SEE ARCH. CONNECTION TO BE JUST BELOW EXISTING STRUCTURE.
2. CONNECT NEW SUPPLY DUCT TO EXISTING. DUCT TO OFFSET HIGH TIGHT TO STRUCTURE THRU WALL.
3. TOP OF EXHAUST DUCT TO BE TIGHT TO BOTTOM OF STRUCTURE. EXHAUST DUCT IN TEAM ROOMS SHALL BE PAINT GRIP GALVANIZED SUITABLE FOR FINAL FINISHING BY THE GC.
4. CAP AND SEAL EXISTING EXHAUST DUCT AIR TIGHT.
5. CAP AND INSULATE BRANCH CONDENSATE PIPE AT EXISTING STEAM CONDENSATE MAIN.
6. CONNECT NEW 1" PUMPED CONDENSATE TO EXISTING PUMPED CONDENSATE PIPE. ROUTE NEW PIPING TIGHT TO BOTTOM OF STRUCTURE.
7. NEW DRIP END OF LPS MAIN.
8. CONNECT NEW 1-1/2" LPC TO EXISTING LPC AT EXISTING CONDENSATE PUMP.
9. RECONNECT LPS AND LPC TO EXISTING STEAM UNIT HEATER. PROVIDE NEW STEAM TRAP AND ISOLATION VALVES.
10. 3" LPS TO RISE TIGHT TO BOTTOM OF STRUCTURE. PROVIDE DRIP END OF MAIN AT BOTTOM OF RISE. PIPE LPC TO EXISTING CONDENSATE PUMP.
11. MOUNT AIR COOLED HEAT PUMP INSIDE BUILDING. HEAT PUMP TO BE MOUNTED TO ON BRACKETS ATTACHED TO WALL AND APPROXIMATEY 14" ABOVE THE FLOOR. PROVIDE AND INSTALL ALL BRACKETS AND HARDWARE. PROVIDE ALL REQUIRED MAINTENANCE AND OPERATING CLEARANCES AROUND UNIT.

KEYED HVAC NOTES (CONTINUED):

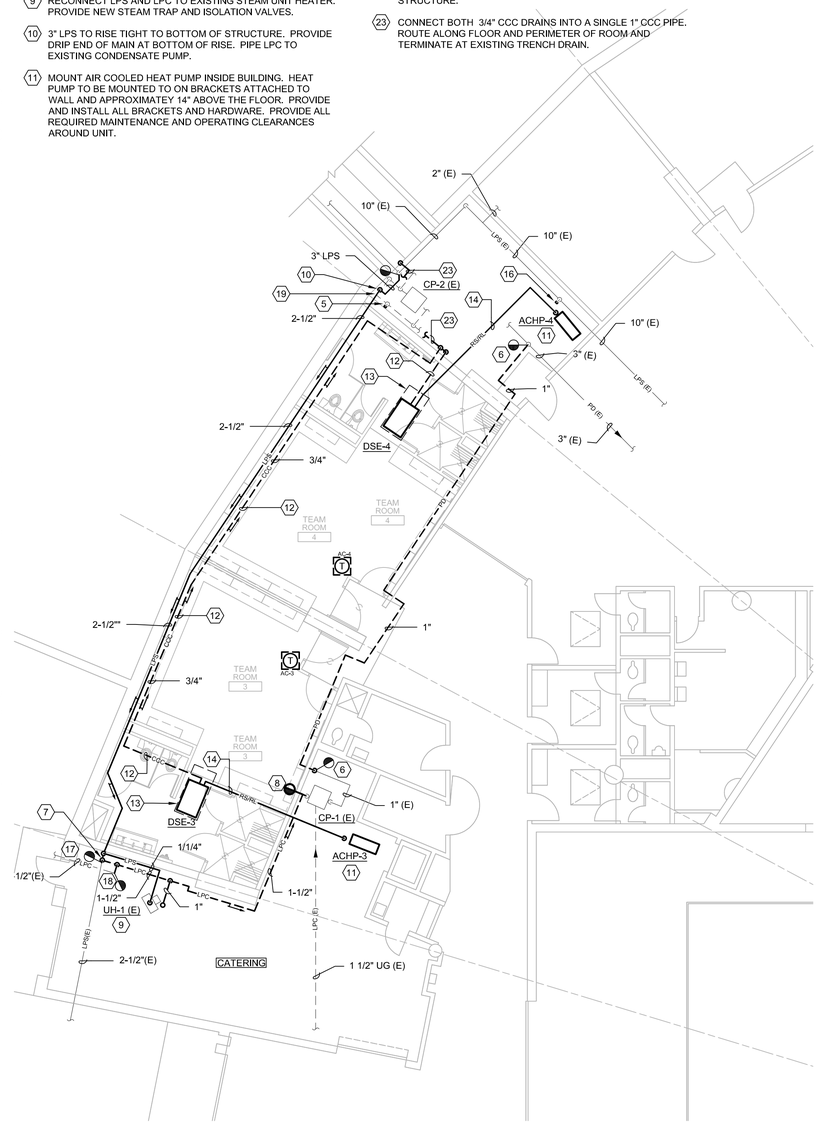
12. 3/4" COOLING COIL CONDENSATE. PROVIDE TRAP. EXTEND CONDENSATE PIPE TO FLOOR DRAIN IN UTILITY SPACE. AC INCLUDES A CONDENSATE PUMP. PIPE TO RISE HIGH OFF UNIT AND PITCH TO DRAIN.
13. 68"x32" CEILING ACCESS PANEL PROVIDED AND INSTALLED BY GC. COORDINATE EXACT LOCATION WITH GC TO MAINTAIN ALL REQUIRED SERVICE ACCESS CLEARANCES.
14. SIZE RS AND RL PER THIS SPECIFIC APPLICATION AND INSTALLATION.
15. LOCATION OF EXISTING DDC CONTROL PANEL.
16. CAP AND INSULATE LPS BRANCH NO LONGER USED.
17. CONNECT NEW 2-1/2" LPS TO EXISTING 2-1/2" LPS.
18. CONNECT NEW 1-1/2" LPC TO EXISTING 1-1/2" LPC.
19. TRANSITION FROM 3" LPS TO 2-1/2" LPS.
20. BALANCE EXHAUST DUCT TO 1,050 CFM.
21. 1" LINING ON TRANSFER AIR DUCT.
22. OFFSET AND CONTINUE TO RISE TIGHT TO BOTTOM OF STRUCTURE.
23. CONNECT BOTH 3/4" CCC DRAINS INTO A SINGLE 1" CCC PIPE. ROUTE ALONG FLOOR AND PERIMETER OF ROOM AND TERMINATE AT EXISTING TRENCH DRAIN.



1 M201 UNDERGROUND NEW WORK PLAN - TEAM ROOM 3 AND 4 - HVAC
SCALE: 1/8"=1'-0"
NORTH



2 M201 NEW WORK PLAN - TEAM ROOM 3 AND 4 - HVAC DUCT
SCALE: 1/8"=1'-0"
NORTH



3 M201 NEW WORK PLAN - TEAM ROOM 3 AND 4 - HVAC PIPE
SCALE: 1/8"=1'-0"
NORTH

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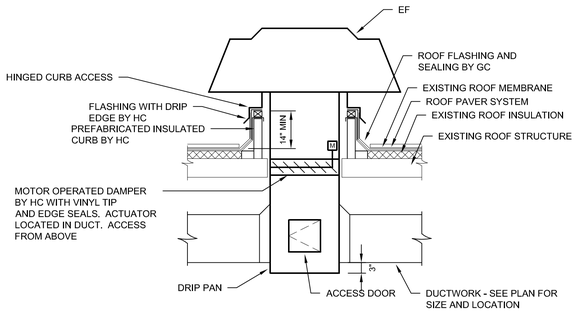
MADISON, WI 53711
PH: 608.277.1728 FAX: 608.271.7046
JDR PROJECT NO. 20.0020

PROJECT
COLISEUM LOCKER ROOM REMODEL
ALLIANT ENERGY CENTER
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN

DRAWING
NEW WORK – TEAM ROOM 3 AND 4 – HVAC

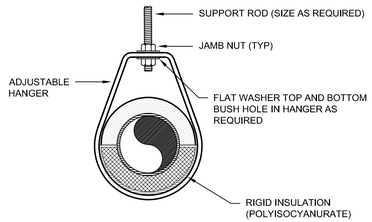
DATE
02.27.20

M201



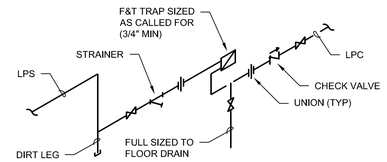
4 M800 ROOF EXHAUST FAN

SCALE: NONE



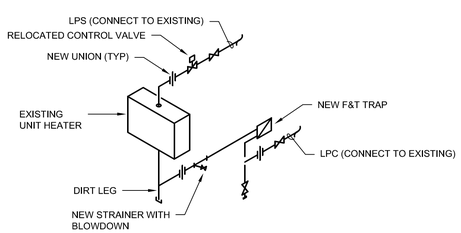
5 M800 TYPICAL PIPE SUPPORT DETAIL

SCALE: NONE



6 M800 DRIP AT END OF STEAM MAIN

SCALE: NONE



7 M800 STEAM UNIT HEATER DETAIL

SCALE: NONE

AIR DEVICE SCHEDULE

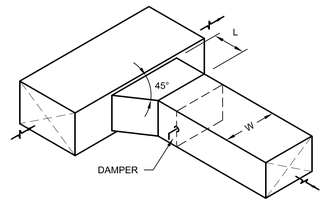
EG - 1 (3) — THROW (IF OTHER THAN NORMAL)
300 — UNIT NUMBER
CFM

SG = SUPPLY GRILLE
RG = RETURN GRILLE
ER = EXHAUST REGISTER

UNIT NO.	ER-1	ER-2	RG-1	SG-1	TG-1	
SERVICE	EXHAUST	EXHAUST	RETURN	SUPPLY	TRANSFER	
MANUFACTURER	PRICE	PRICE	PRICE	PRICE	PRICE	
MODEL NO.	630	630	630	620	620	
FACE STYLE	LOUVERED	LOUVERED	LOUVERED	LOUVERED	LOUVERED	
PATTERN	-	-	-	DBL DFL	SINGLE DFL	
FINISH	WHITE	WHITE	WHITE	WHITE	WHITE	
MATERIAL	ALUM	ALUM	ALUM	ALUM	ALUM	
SIZE (FACE/NECK)	14x14 / 12x12	10x10 / 8x8	28x10 / 26x8	28x10 / 26x8	32x10 / 30x8	
CFM RANGE	0 - 450	0 - 150	0 - 850	0 - 850	0 - 750	
MOUNTING	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE	
DAMPER	YES	YES	NO	NO	NO	
REMARKS						

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY MOUNTING SURFACE / FRAME REQUIREMENTS.
2. BRANCH DUCT SIZE TO DIFFUSER SHALL BE THE NECK SIZE OF THE DIFFUSER UNLESS NOTED OTHERWISE.
3. SEE SPECIFICATION FOR GRILLE, REGISTER, AND DIFFUSER FINISHES.
4. MAXIMUM STATIC PRESSURE DROP THROUGH GRILLE, REGISTER OR DIFFUSER SHALL NOT EXCEED 0.1".
5. MAXIMUM NC LEVELS FOR GRILLES, REGISTERS OR DIFFUSERS SHALL NOT EXCEED 25.

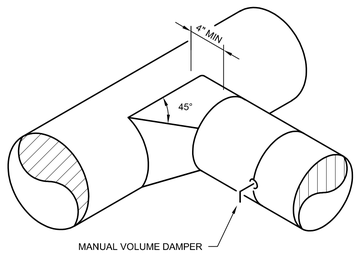


NOTE: L = 1/4W (4" MINIMUM)

1 M800 BRANCH DUCT TAKEOFF

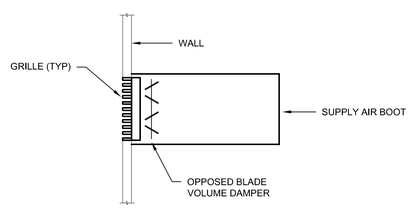
SCALE: NONE

(REVERSE FLOW ARROWS FOR EXHAUST AND RETURN)



2 M800 BRANCH DUCT TAKEOFF DETAIL

SCALE: NONE



NOTE: PAINT ALL VISIBLE INTERIOR SURFACES OF DUCTWORK FLAT BLACK.

3 M800 GRILLE CONNECTION DETAIL

SCALE: NONE

SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

UNIT NO.		DSE-1	DSE-2	DSE-4	DSE-4
LOCATION		TEAM ROOM 1	TEAM ROOM 2	TEAM ROOM 3	TEAM ROOM 4
MANUFACTURER		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
MODEL NO.		PEAD-A30AA5	PEAD-A30AA5	PEAD-A30AA5	PEAD-A30AA5
SYSTEM TYPE		HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
EVAPORATOR TYPE		DUCTED	DUCTED	DUCTED	DUCTED
SUPPLY CFM		850	850	850	850
FILTER TYPE		-	-	-	-
FAN MOTOR	VOLTS	208	208	208	208
	PHASE	1	1	1	1
	HP				
	DRIVE	DIRECT	DIRECT	DIRECT	DIRECT
	NO. OF SPEEDS	3	3	3	3
AIR COOLED HEAT PUMP (OUTDOOR UNIT)					
UNIT NO.		ACHP-1	ACHP-2	ACHP-3	ACHP-4
LOCATION		ELEC STOR RM	ELEC STOR RM	CATERING	TUNNEL
MANUFACTURER		MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
MODEL NO.		PUZ-A30NHA6	PUZ-A30NHA6	PUZ-A30NHA6	PUZ-A30NHA6
NOMINAL CAPACITY (BTU / HR)		30,000	30,000	30,000	30,000
SEER		15.5	15.5	15.5	15.5
COP		2.3	2.3	2.3	2.3
UNIT ELECTRICAL DATA	VOLTS	208	208	208	208
	PHASE	1	1	1	1
	MCA	25.0	25.0	25.0	25.0
	MOCP	30.0	30.0	30.0	30.0
SERVES		ACHP-1	ACHP-2	ACHP-3	ACHP-4
REMARKS		1	1	1	1

KEYED NOTES

1. EC TO PROVIDE POWER FROM ACHP TO DSE.

FAN SCHEDULE

UNIT NO.		EF-1	EF-2
LOCATION		ROOF	ROOF
MANUFACTURER		GREENHECK	GREENHECK
MODEL NO.		G-143-VG	G-143-VG
SERVICE		TEAM ROOMS	TEAM ROOMS
FAN TYPE		PRV	PRV
ARRANGEMENT		DOWNBLAST	DOWNBLAST
DESIGN CFM		1,800	1,500
EXT. SP (IN WC)		1.0	1.0
FAN WHEEL TYPE		BI	BI
FAN DIAMETER		13"	13"
APPROXIMATE FAN RPM		1725	1725
BHP		0.58	0.58
MOTOR HP		1.0	1.0
VOLTS/PHASE		208 / 1	208 / 1
DRIVE		DIRECT	DIRECT
ECM MOTOR		YES	YES
TWO SPEED		NO	NO
VFD		NO	NO
MAX. SONES		14.1	14.3
MAX FAN INLET AIR SOUND DATA SOUND POWER BY OCTAVE BAND (dB)	1	79	79
	2	80	80
	3	79	79
	4	74	75
	5	70	70
	6	68	68
	7	63	63
	8	59	59
REMARKS		1	1

KEYED NOTES

1. PROVIDE WITH MOTOR OPERATED DAMPER.

ELECTRIC UNIT HEATER SCHEDULE

UNIT NO.	EUH-1		
LOCATION	ZAMBONI		
MANUFACTURER	QMARK		
MODEL NO.	MUH-07-8		
CFM OF STD AIR	650		
KW INPUT	7.5		
CAPACITY (BTU / HR)	25,600		
CONTROL STEPS	1		
FAN MOTOR HP	-		
VOLTS	208		
PHASE	1		
AIR FLOW DISCHARGE	HORIZ		
REMARKS	1		

KEYED NOTES:

1. PROVIDE UNIT WITH LOW VOLTAGE CONTROL TRANSFORMER. HC TO PROVIDE AND INSTALL LOW VOLTAGE CONTROL WIRING AND LOW VOLTAGE THERMOSTAT.

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DETAILS AND SCHEDULES – HVAC

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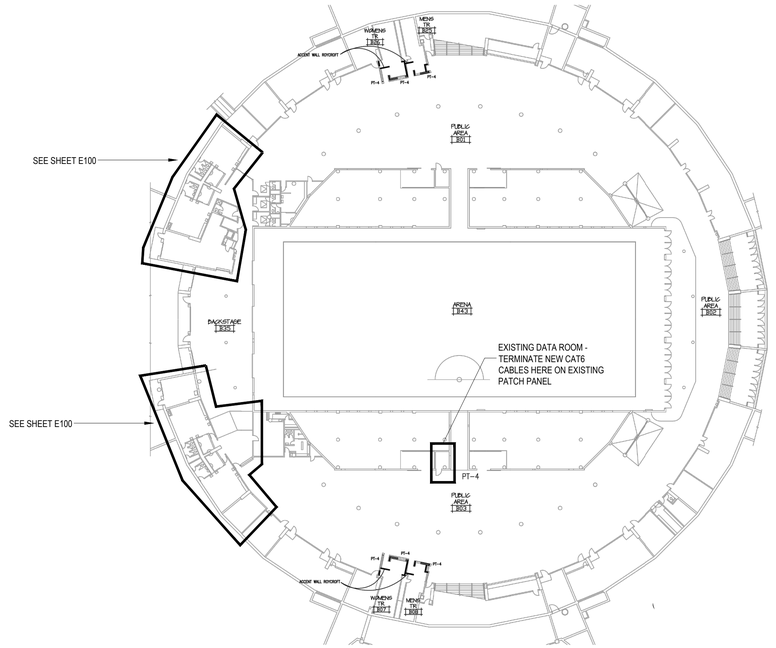
M800

ABBREVIATIONS

A	AMP
ACT	ABOVE COUNTER TOP
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
AQ	AQUA-STAT
AS	AS SHOWN
AU	AT UNIT
B, JB	JUNCTION BOX
BCP	BOILER CONTROL PANEL
BD#	BUS DUCT, # INDICATES BUS DUCT DESIGNATION
BFG	BELOW FINISHED GRADE
BOL	BUILT-IN OVERLOAD
C	CONTACTOR
CB, C/B	CIRCUIT BREAKER(S)
CCB	COMBINATION CIRCUIT BREAKER FULL VOLTAGE STARTER
CDT	CONDUIT
CEF	CEILING EXHAUST FAN
CF	COMBINATION FUSIBLE FULL VOLTAGE STARTER
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
CPT	CONTROL POWER TRANSFORMER
CS	COMBINATION STARTER
CU	COPPER
CUH	CABINET UNIT HEATER
D, DS	DISCONNECT SWITCH
DD	DOUBLE DUPLEX
DM	DOOR MANUFACTURER
DN	DOWN
DRWGS	DRAWINGS
EC	BY ELECTRICAL CONTRACTOR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EM	EMERGENCY
EP	EXPLOSION PROOF
ER	EXISTING TO BE REMOVED
ERL	EXISTING RELOCATED (NEW LOCATION)
ET	ELAPSED TIMER
ETL	EXISTING TO BE RELOCATED (OLD LOCATION)
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
EX	EXISTING TO REMAIN
F	FURNISHED BY
FS	FLOW SWITCH
FZS	FREEZE STAT
G, GFI	GROUND FAULT INTERRUPTER TYPE
GC	PROJECT GENERAL CONTRACTOR
GND, GRND	GROUND
GS	MAGNETIC STARTER
GV	GATE VALVE
H, HV	HEATING/VENTILATING CONTRACTOR
HOA	HAND/OFF/AUTO SELECTOR SWITCH
HP	HORSEPOWER
H/S	HORN/STROBE
I	INSTALLED BY
IG	ISOLATED GROUND
IL	INTERLOCK
IS	IN STARTER COVER
IU	IN UNIT
KS	KEY SWITCH
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LD	LOAD (KW OR HP)
LVT	LINE VOLTAGE THERMOSTAT (120V)
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MFR	MANUFACTURER
MG	MOTOR GENERATOR
MLO	MAIN LUGS ONLY
MR#	MULTI-RECEPTACLE, # INDICATES MULTI-RECEPTACLE DESIGNATION
MS	MANUAL STARTER
MSB	MAIN SWITCHBOARD
MSP	MANUAL SWITCH WITH PILOT LIGHT
MT	EMPTY
MTD	MOUNTED
NC	NEAR CIRCULATOR (REFER TO HVAC & PLUMBING DRAWINGS FOR EXACT LOCATION.)
NIC	NOT IN CONTRACT
NP	NEAR PUMP (REFER TO HVAC & PLUMBING DRAWINGS FOR EXACT LOCATION.)
NTS	NOT TO SCALE
NU	NEAR UNIT (REFER TO HVAC & PLUMBING DRAWINGS FOR EXACT LOCATION.)
OOS	ON/OFF SWITCH
OU	ON UNIT
P#	PHOTOCELL, # INDICATES PHOTOCELL DESIGNATION
PBL	PUSH BUTTON WITH PILOT LIGHT
PBS	PUSH BUTTON STATION
PC	PLUMBING CONTRACTOR
PCP	PRE-WIRED CONTROL PANEL
PE	PNEUMATIC ELECTRIC SWITCH
PEC	PROJECT ELECTRICAL CONTRACTOR
PL	PILOT LIGHT
PRV	POWER ROOF VENTILATOR
PW	PART WINGING STARTER
R	RECEPTACLE
RAF	RETURN AIR FAN
RAI	REMAIN AS IS
RAT	REVERSE ACTING THERMOSTAT
RMN	EXISTING TO REMAIN
RMV	EXISTING TO BE REMOVED
RPL	EXISTING TO BE REPLACED
RVS	REDUCED VOLTAGE STARTER
S	STERILIZER
SAV	SOLENOID AIR VALVE
SC	STERILIZER CONTROLS
SF	SUPPLY FAN
SP	SHOCKPROOF
SPC	SPACE
SPR	SPARE
SPS	SELECTOR SWITCH
SS	SPEED SWITCH
S/S	SPEAKER/STROBE
SSP	START-STOP WITH PILOT LIGHT
STAT	THERMOSTAT
SVS	SUPERVISORY SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCH GEAR
TC	TIME CLOCK
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TL#	TRACK LIGHT, # INDICATES TRACK LIGHT DESIGNATION
TO	TYPICAL OUTLET
TS	TAMPER SWITCH
TV	TELEVISION
UFD	UNDERFLOOR DUCT
UG	UNDERGROUND
UGD	UNDERGROUND DUCT
UH	UNIT HEATER
UO	UNIQUE OUTLET
UOI	UNLESS OTHERWISE INDICATED
USS	UNIT SUBSTATION
V	VENDOR SUPPLYING EQUIPMENT
W	WIRED BY
W/	WITH
WP	WEATHERPROOF
WT	WIRING TROUGH
XFMR	TRANSFORMER

ELECTRICAL SYMBOLS

- INDUSTRIAL STRIP FIXTURE
- RECESSED, SURFACE OR PENDANT FIXTURE
- WALL BRACKET FIXTURE
- SURFACE FIXTURE
- CEILING FAN
- (*) SINGLE POLE TOGGLE SWITCH - MOUNT 48" ABOVE FLOOR TO TOP OF BOX - (3) THREE WAY - (4) FOUR WAY - (K) KEY - (P) PILOT LIGHT - (OS) OCCUPANCY SENSOR (AUTO OFF / AUTO FULL ON) - (VS) VACANCY SENSOR (AUTO OFF / MANUAL ON)
- (*) DUAL LEVEL SWITCH - MOUNT 48" ABOVE FLOOR TO TOP OF BOX - (3) THREE WAY - (4) FOUR WAY - (K) KEY - (P) PILOT LIGHT - (OS) OCCUPANCY SENSOR (AUTO OFF / AUTO FULL ON) - (VS) VACANCY SENSOR (AUTO OFF / MANUAL ON)
- (*) DIMMER SWITCH - MOUNT 48" ABOVE FLOOR TO TOP OF BOX - (3) THREE WAY - (4) FOUR WAY - (OS) OCCUPANCY SENSOR (AUTO OFF / AUTO FULL ON) - (VS) VACANCY SENSOR (AUTO OFF / MANUAL ON)
- (*) / (*) SWITCH AND DUPLEX RECEPTACLE - DOUBLE GANG BOX - MOUNT 48" ABOVE FLOOR TO TOP OF BOX - (3) THREE WAY - (4) FOUR WAY - (OS) OCCUPANCY SENSOR (AUTO OFF / AUTO FULL ON) - (VS) VACANCY SENSOR (AUTO OFF / MANUAL ON) - (GFI) GROUND FAULT CIRCUIT INTERRUPTER
- (*) DUPLEX RECEPTACLE - MOUNT 15" ABOVE FLOOR TO BOTTOM OF BOX OR HEIGHT AS INDICATED - (GFI) GROUND FAULT CIRCUIT INTERRUPTER - (WP) WEATHER PROOF
- DOUBLE DUPLEX RECEPTACLE - MOUNT 15" ABOVE FLOOR TO BOTTOM OF BOX OR HEIGHT AS INDICATED
- (*) DUPLEX RECEPTACLE - MOUNT HORIZONTAL ABOVE COUNTER - (GFI) GROUND FAULT CIRCUIT INTERRUPTER
- DOUBLE DUPLEX RECEPTACLE - MOUNT ABOVE COUNTER
- SPECIAL OUTLET
- MOTOR
- DISCONNECT SWITCH
- JUNCTION BOX
- ELECTRICAL PANEL
- TELEPHONE OUTLET - MOUNT 15" ABOVE FLOOR TO BOTTOM OF BOX - (W) WALL PHONE MOUNT 48" TO TOP OF BOX (C) ABOVE COUNTER OR HEIGHT AS INDICATED
- VOICE/DATA OUTLET - MOUNT 15" ABOVE FLOOR TO BOTTOM OF BOX (C) ABOVE COUNTER OR HEIGHT AS INDICATED
- WAP — WIRELESS ACCESS POINT
- TV — TELEVISION OUTLET - MOUNT 15" ABOVE FLOOR TO BOTTOM OF BOX OR HEIGHT AS INDICATED
- DETAIL NUMBER
- NOTE OR DETAIL SYMBOL
- SHEET LOCATION



1 KEY PLAN
NOT TO SCALE

ELECTRICAL SHEET INDEX	
SHEET NUMBER	SHEET NAME
E001	ELECTRICAL SYMBOLS, ABBREVIATIONS AND KEY PLAN
E100	ARENA LEVEL ELECTRICAL DEMOLITION AND NEW PLANS
E200	PHOTOS AND ELECTRICAL DETAILS
E201	ELECTRICAL SCHEDULES

2019-1151.00

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DRAWING
ELECTRICAL SYMBOLS AND ABBREVIATIONS

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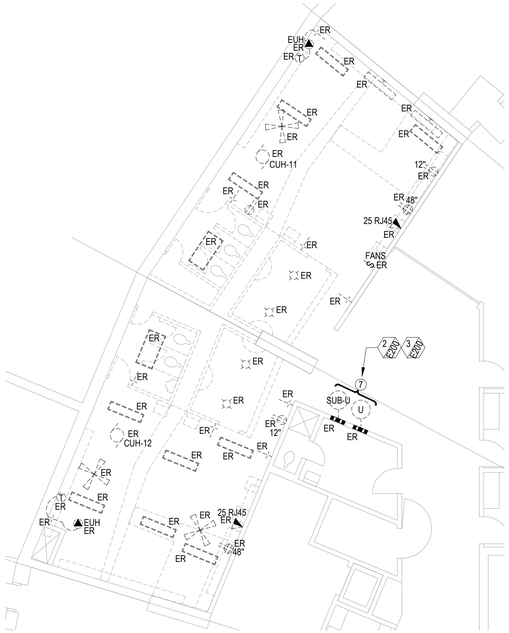
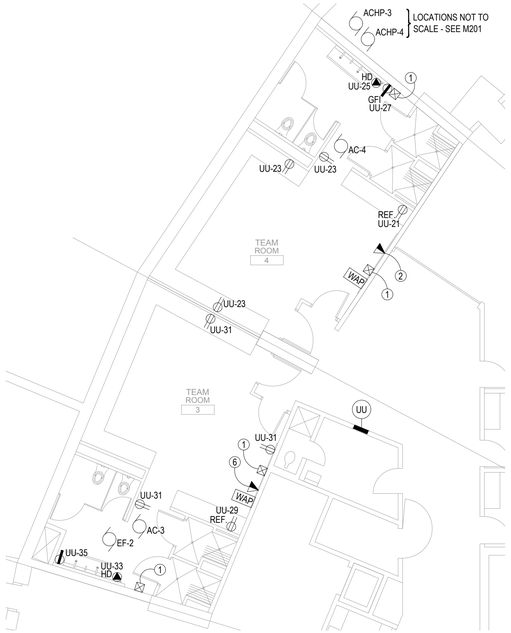
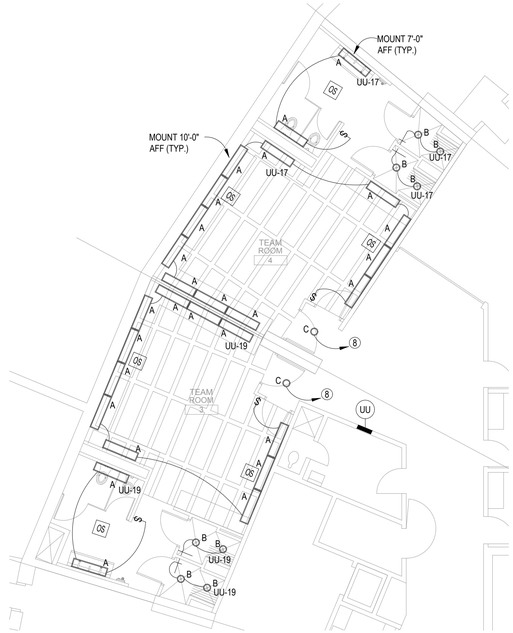
E001



1 TEAM ROOM 3 AND 4 ELECTRICAL DEMO PLAN
1/8" = 1'-0"



3 TEAM ROOM 3 AND 4 FLOOR POWER/SYSTEMS PLAN
1/8" = 1'-0"



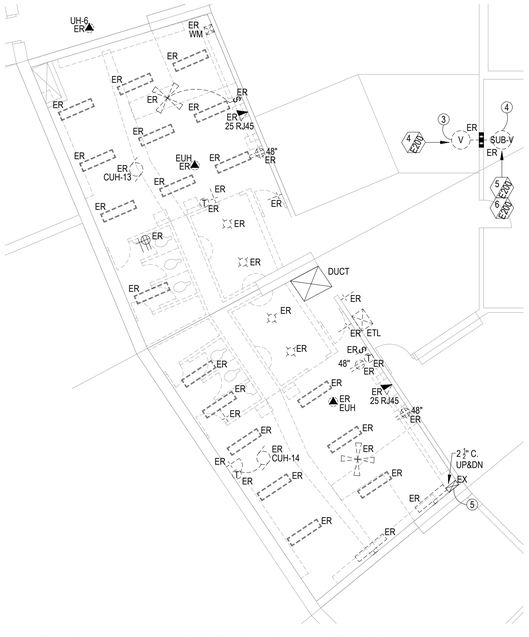
5 TEAM ROOM 3 AND 4 LIGHTING PLAN
1/8" = 1'-0"

KEYED NOTES THIS SHEET

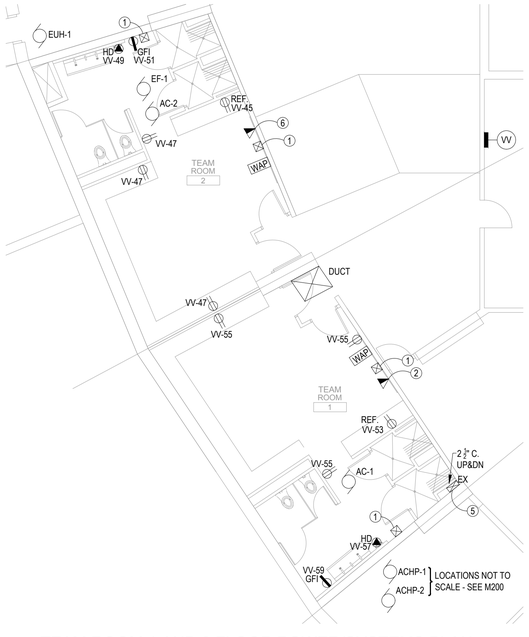
1. PROVIDE JUNCTION BOX FLUSH IN WALL 86" TO BOTTOM FOR FUTURE FIRE ALARM STROBE.
2. SEE PHOTO 1/E200. PROVIDE NEW WIRE MOLD V4000 RACEWAY TO ENCLOSE DATA CABLE, TV CABLE AND PHONE CABLE. PROVIDE (1) CAT6 JACK IN FACE OF V4000 FOR DATA CABLE. SEE DETAIL A/E200.
3. REMOVE PANEL "V". PROVIDE FLUSH STEEL COVER OVER BACK BOX. TRANSFER CIRCUITS TO NEW PANEL "VV".
4. REMOVE SURFACE 100A SUB-PANEL. TRANSFER CIRCUITS TO NEW PANEL "VV".
5. GENERAL CONTRACTOR WILL CREATE ACCESS PANEL IN CORRIDOR WALL ROTATE PULLBOX SO IT CAN BE ACCESSED FROM CORRIDOR.
6. RELOCATE TV CABLE, PHONE CABLE AND PHONE OUTLET BLOCK TO MISS NEW WALL CONSTRUCTION. ROUTE IN WIREMOLD V4000. SEE DETAIL A/E200.
7. REMOVE PANELS "U" AND "U-SUB". TRANSFER CIRCUITS TO NEW SURFACE PANEL "UU".
8. WIRE TO CONCOURSE LIGHTING.

GENERAL NOTE:

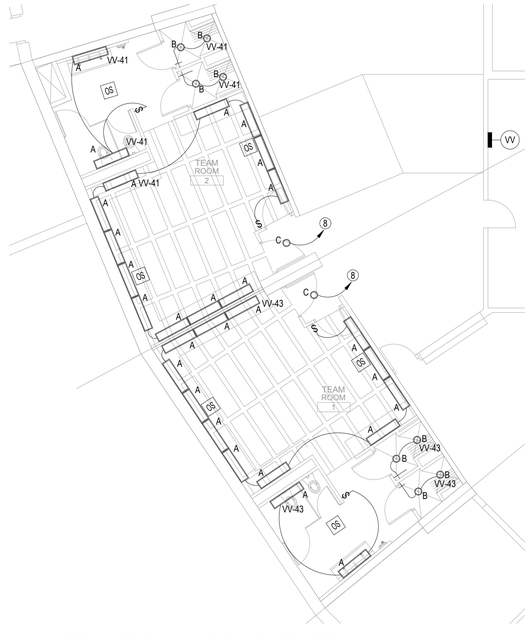
1. ALL ELECTRICAL WORK TO BE CONCEALED.



2 TEAM ROOM 1 AND 2 ELECTRICAL DEMO PLAN
1/8" = 1'-0"



4 TEAM ROOM 1 AND 2 FLOOR POWER/SYSTEMS PLAN
1/8" = 1'-0"



6 TEAM ROOM 1 AND 2 LIGHTING PLAN
1/8" = 1'-0"

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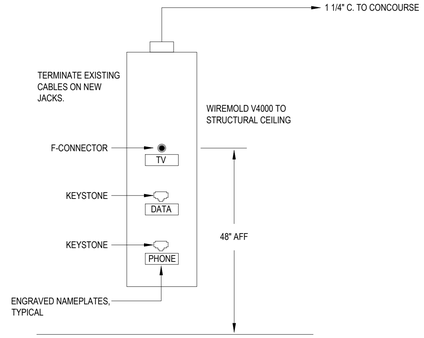
E100

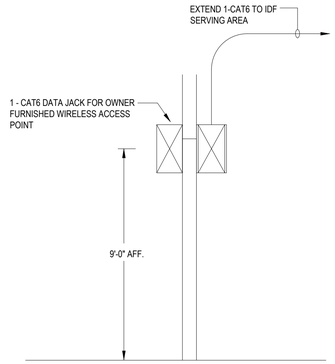
REMOVE PANELS, INSTALL NEW PANEL "UU" FLUSH IN WALL. TRANSFER CIRCUITS. CUT AND PATCH WALL TO ACCOMMODATE.

2 E200 PHOTO: PANELS "U" AND "U-SUB"
NOT TO SCALE

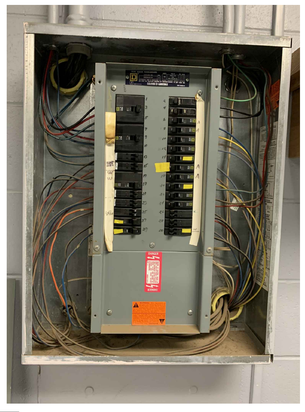
1 E200 PHOTO: TV, PHONE, DATA
NOT TO SCALE



B E200 COMM OUTLETS
NOT TO SCALE



A E200 WAP DETAIL
NOT TO SCALE



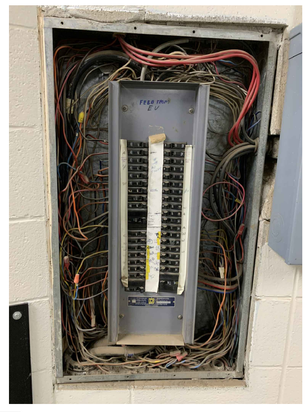
6 E200 PHOTO: PANEL "SUB-V"
NOT TO SCALE

REMOVE PANEL. INSTALL NEW SURFACE PANEL "VV". TRANSFER CIRCUITS.

5 E200 PHOTO: PANEL "SUB-V"
NOT TO SCALE

REMOVE PANEL. PROVIDE BLANK PAINTED STEEL COVER. TRANSFER CIRCUITS TO NEW PANEL "VV".

4 E200 PHOTO: PANEL "V"
NOT TO SCALE



3 E200 PHOTO: PANEL "U"
NOT TO SCALE

DORSCHNER
Architecture
Planning

Dorschner Associates, Inc.
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ISSUED

PROJECT
COLISEUM LOCKER ROOM REMODEL
ALLIANT ENERGY CENTER
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN

DRAWING
PHOTOS AND ELECTRICAL DETAILS

DATE
02.27.20

2019-1151.00

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E200

PANEL VV

225 AMPS MLO 208Y/120V VOLT 3 PHASE 4 WIRE SURFACE MOUNTING

BREAKER AMPS	BREAKER POLES	DESCRIPTION	Load Category	CIRCUIT WATTS	CIRCUIT #	PHASE LOADS A	PHASE LOADS B	PHASE LOADS C	CIRCUIT #	CIRCUIT WATTS	Load Category	DESCRIPTION	BREAKER AMPS	BREAKER POLES
60	3	RECONNECT EX CKT	EX		1	0			2		EX	RECONNECT EX CKT	20	1
X	X	X	EX		3		0		4		EX	RECONNECT EX CKT	20	1
X	X	X	EX		5			0	6		EX	RECONNECT EX CKT	20	1
100	3	RECONNECT EX CKT	EX		7	0			8		EX	RECONNECT EX CKT	20	1
X	X	X	EX		9		0		10		EX	RECONNECT EX CKT	20	1
X	X	X	EX		11			0	12		EX	RECONNECT EX CKT	20	1
100	3	RECONNECT EX CKT	EX		13	0			14		EX	RECONNECT EX CKT	20	1
X	X	X	EX		15		0		16		EX	RECONNECT EX CKT	20	1
X	X	X	EX		17			0	18		EX	RECONNECT EX CKT	20	1
20	1	RECONNECT EX CKT	EX		19	0			20		EX	RECONNECT EX CKT	20	1
20	1	RECONNECT EX CKT	EX		21		0		22		EX	RECONNECT EX CKT	20	1
20	1	RECONNECT EX CKT	EX		23			0	24		EX	RECONNECT EX CKT	20	1
20	1	RECONNECT EX CKT	EX		25	0			26		EX	RECONNECT EX CKT	20	1
20	1	RECONNECT EX CKT	EX		27		0		28		EX	RECONNECT EX CKT	20	1
20	1	RECONNECT EX CKT	EX		29			0	30		EX	RECONNECT EX CKT	20	1
20	1	RECONNECT EX CKT	EX		31	0			32		EX	RECONNECT EX CKT	20	1
20	1	RECONNECT EX CKT	EX		33		0		34		EX	RECONNECT EX CKT	20	1
20	2	RECONNECT EX CKT	EX		35			0	36		EX	RECONNECT EX CKT	20	1
X	X	RECONNECT EX CKT	EX		37	0			38		EX	RECONNECT EX CKT	20	1
30	1	RECONNECT EX CKT	EX		39		0		40		EX	RECONNECT EX CKT	20	1
20	1	LIGHTING	L	660	41			660	42		EX	RECONNECT EX CKT	20	1
20	1	LIGHTING	L	660	43	660			44		EX	RECONNECT EX CKT	20	1
20	1	REFRIGERATOR	R	600	45		600		46		EX	RECONNECT EX CKT	20	1
20	1	RECEPTACLES	R	540	47			540	48		EX	RECONNECT EX CKT	20	1
20	1	SPO HD (GFI BKR)	E	1000	49	1000			50		EX	RECONNECT EX CKT	20	1
20	1	SPO SF, 1 RECEPT	E, R	300	51		300		52		EX	RECONNECT EX CKT	20	1
20	1	REFRIGERATOR	R	600	53			600	54		EX	RECONNECT EX CKT	20	1
20	1	RECEPTACLES	R	540	55	540			56		EX	RECONNECT EX CKT	20	1
20	1	SPO HD (GFI BKR)	E	1000	57		1000		58		EX	RECONNECT EX CKT	20	1
20	1	SPO SF, 1 RECEPT	E, R	300	59			300	60		EX	RECONNECT EX CKT	20	1
30	2	MOTOR ACHP-1	A	2500	61	2500			62		EX	RECONNECT EX CKT	20	1
X	X	X	A	2500	63		2500		64		EX	RECONNECT EX CKT	20	1
30	2	MOTOR ACHP-2	A	2500	65			2500	66		EX	RECONNECT EX CKT	20	1
X	X	X	A	2500	67	2500			68		EX	RECONNECT EX CKT	20	1
20	2	MOTOR EF-1	V	500	69		500		70		EX	RECONNECT EX CKT	20	1
X	X	X	V	500	71			500	72		EX	RECONNECT EX CKT	20	1
30	3	SPO EUH-1	H	2500	73	2500			74		EX	RECONNECT EX CKT	20	1
X	X	X	H	2500	75		2500		76		EX	RECONNECT EX CKT	20	1
X	X	X	H	2500	77			2500	78		EX	RECONNECT EX CKT	20	1
20	1	SPARE			79	0			80		EX	RECONNECT EX CKT	20	1
20	1	SPARE			81		0		82		EX	RECONNECT EX CKT	20	1
20	1	SPARE			83			0	84		EX	RECONNECT EX CKT	20	1
						9700	7400	7600						

TOTAL LOADS: 24700 WATTS
DEMAND:

69 AMPS

PANEL UU

225 AMPS MLO 208Y/120V VOLT 3 PHASE 4 WIRE FLUSH MOUNTING

BREAKER AMPS	BREAKER POLES	DESCRIPTION	Load Category	CIRCUIT WATTS	CIRCUIT #	PHASE LOADS A	PHASE LOADS B	PHASE LOADS C	CIRCUIT #	CIRCUIT WATTS	Load Category	DESCRIPTION	BREAKER AMPS	BREAKER POLES
60	3	RECONNECT EX CKT	EX		1	0			2		EX	RECONNECT EX CKT	20	1
X	X	X	EX		3		0		4		EX	X	20	1
X	X	X	EX		5			0	6		EX	X	20	1
100	3	RECONNECT EX CKT	EX		7	0			8		EX	X	20	1
X	X	X	EX		9		0		10		EX	X	20	1
X	X	X	EX		11			0	12		EX	X	20	1
20	2	RECONNECT EX CKT	EX		13	0			14		EX	X	20	1
X	X	X	EX		15		0		16		EX	X	20	1
20	1	LIGHTING	L	660	17			660	18		EX	X	20	1
20	1	LIGHTING	L	660	19	660			20		EX	X	20	1
20	1	REFRIGERATOR	EX	600	21		600		22		EX	X	20	1
20	1	RECEPTACLES	R	540	23			540	24		EX	X	20	1
20	1	SPO HD (GFI BKR)	EX	1000	25	1000			26		EX	X	20	1
20	1	SPO SF, 1 RECEPT	R,E	300	27		300		28		EX	X	20	1
20	1	REFRIGERATOR	EX	600	29			600	30		EX	X	20	1
20	1	RECEPTACLES	R	540	31	540			32		EX	X	20	1
20	1	SPO HD (GFI BKR)	EX	1000	33		1000		34		EX	X	20	1
20	1	SPO SF, 1 RECEPT	R,E	300	35			300	36		EX	X	20	1
20	2	MOTOR EF-2	V	500	37	500			38		EX	X	20	1
X	X	X	V	500	39		500		40		EX	X	20	1
30	2	MOTOR ACHP-3	H	2500	41			2500	42		EX	X	20	1
X	X	X	H	2500	43	2500			44		EX	X	20	1
30	2	MOTOR ACHP-4	H	2500	45		2500		46		EX	X	20	1
X	X	X	H	2500	47			2500	48		EX	X	20	1
20	1	SPARE			49	0			50		EX	X	20	1
20	1	SPARE			51		0		52		EX	X	20	1
20	1	SPARE			53			0	54		EX	X	20	1
20	1	SPARE			55	0			56		EX	X	20	1
20	1	SPARE			57		0		58		EX	X	20	1
20	1	SPARE			59			0	60		EX	X	20	1
20	1	SPARE			61	0			62		EX	X	20	1
20	1	SPARE			63		0		64		EX	X	20	1
20	1	SPARE			65			0	66		EX	X	20	1
20	1	SPARE			67	0			68		EX	X	20	1
20	1	SPARE			69		0		70					
20	1	SPARE			71			0	72					
20	1	SPARE			73	0			74					
					75		0		76					
					77			0	78					
					79	0			80					
					81		0		82					
					83			0	84					
						5200	4900	7100						

TOTAL LOADS: 17200 WATTS
DEMAND:

48 AMPS

MOTOR WIRING SCHEDULE

TAG	DRIVING	LOC.	POWER HP	POWER VOLT	POWER PH	FEED FROM PANEL	FEED FROM CIRCUIT	BREAKER SIZE	BREAKER POLE	BRANCH WIRING NO	BRANCH WIRING SIZE	BRANCH WIRING COND.	STARTER FURN.	STARTER INST.	STARTER WIRED	STARTER LOC.	STARTER TYPE	DISCONNECT FURN.	DISCONNECT INST.	DISCONNECT WIRED	DISCONNECT LOC.	DISCONNECT TYPE	SEE NOTE
EF-1	EXHAUST FAN	SEE PLAN	1	208	1	VV	69, 71	20	2	2+G	12	1/2"	HV	HV	EC	IU	BOL	EC	EC	EC	NU	NFD	
EF-2	EXHAUST FAN	SEE PLAN	1	208	1	UU	37, 39	20	2	2+G	12	1/2"	HV	HV	EC	IU	BOL	EC	EC	EC	NU	NFD	
EUH-1	ELECTRIC UNIT HEATER	SEE PLAN	7.5 KW	208	3	VV	73, 75, 77	30	3	3+G	10	3/4"	HV	HV	EC	IU	MAG	EC	EC	EC	NU	NFD	
ACHP-1	AC HEAT PUMP	SEE PLAN	25 MCA	208	1	VV	61, 63	30	2	2+G	10	3/4"	HV	HV	EC	IU	MAG	EC	EC	EC	NU	NFD	
ACHP-2	AC HEAT PUMP	SEE PLAN	25 MCA	208	1	VV	65, 67	30	2	2+G	10	3/4"	HV	HV	EC	IU	MAG	EC	EC	EC	NU	NFD	
ACHP-3	AC HEAT PUMP	SEE PLAN	25 MCA	208	1	UU	41, 43	30	2	2+G	10	3/4"	HV	HV	EC	IU	MAG	EC	EC	EC	NU	NFD	
ACHP-4	AC HEAT PUMP	SEE PLAN	25 MCA	208	1	UU	45,47	30	2	2+G	10	3/4"	HV	HV	EC	IU	MAG	EC	EC	EC	NU	NFD	
AC-1	AC INDOOR UNIT	SEE PLAN	-	208	1	-	-	-	-	2+G	10	3/4"	HV	HV	EC	IU	BOL	EC	EC	EC	NU	NFD	1
AC-2	AC INDOOR UNIT	SEE PLAN	-	208	1	-	-	-	-	2+G	10	3/4"	HV	HV	EC	IU	BOL	EC	EC	EC	NU	NFD	1
AC-3	AC INDOOR UNIT	SEE PLAN	-	208	1	-	-	-	-	2+G	10	3/4"	HV	HV	EC	IU	BOL	EC	EC	EC	NU	NFD	1
AC-4	AC INDOOR UNIT	SEE PLAN	-	208	1	-	-	-	-	2+G	10	3/4"	HV	HV	EC	IU	BOL	EC	EC	EC	NU	NFD	1

ABBREVIATIONS:

2SP = 2 SPEED MAGNETIC STARTER
BOL = BUILT-IN OVERLOAD
CS = COMBINATION STARTER
EC = ELECTRICAL CONTRACTOR
ECP = ELEVATOR CONTROL PANEL
EV = ELEVATOR CONTRACTOR
FD = FUSIBLE DISCONNECT
HV = HVAC CONTRACTOR
IU = IN UNIT
LMRS = LOCKABLE MOTOR RATED SWITCH
MAN = MANUAL STARTER
MAG = MAGNETIC STARTER
MC = MECHANICAL CONTRACTOR
MCC = MOTOR CONTROL CENTER
HOA = HAND-OFF-AUTO
MCA = MINIMUM CIRCUIT AMPS
MFR = MANUFACTURER
NFD = NON-FUSIBLE DISCONNECT
NU = NEAR UNIT
OU = ON UNIT
PC = PLUMBING CONTRACTOR
PL = PILOT LIGHT
RVS = REDUCED VOLTAGE STARTER
TCP = TEMPERATURE CONTROL PANEL
T-STAT = THERMOSTAT
VFD = VARIABLE FREQUENCY DRIVE
WP = WEATHERPROOF
STST = START/STOP

NOTES:

1. EXTEND POWER FROM ASSOCIATED ACHP UNIT.

LIGHT FIXTURE SCHEDULE

TAG	LAMP DATA NO	LAMP DATA TYPE	DESCRIPTION	LIGHTING FIXTURE MAKE	LIGHTING FIXTURE CATALOG NO	MOUNT	CEILING TYPE	VOLT	SEE NOTE
A		4083L, 4000K	IMPACT RESISTANT LED WALL FIXTURE	FAIL SAFE	HVSL2-SQ4LD4-HI-40-UNV-0-ED1D1-WH	WALL	EXP	120	1
B		2000L, 4000K	IMPACT RESISTANT SHOWER LIGHT - LED	FAIL SAFE	FLD6BX-20-DO1O-FEU6B-28040-F6LBXVM1H-BL89AM	RECESSED	DW	120	1
C		2000L, 4000K	IMPACT RESISTANT DOWNLIGHT - LED	FAIL SAFE	FLD6BX-20-DO1O-FEU6B-28040-F6LBXVM1H	RECESSED	DW	120	1

NOTES:

1. OR APPROVED EQUIVALENT.

SPECIAL PURPOSE OUTLET SCHEDULE

TAG	DRIVING	LOC.	FEED FROM PANEL	FEED FROM CIRCUIT	BREAKER SIZE	BREAKER POLE	BRANCH WIRING NO	BRANCH WIRING SIZE	BRANCH WIRING COND.	POWER VOLT	POWER PH	POWER LOAD	SEE NOTE
HD	HAIR DRYER	SEE PLAN	SEE	PLAN	20	1	3	12	1/2"	120	1		1

NOTES:

1. FURNISHED BY SECTION 09 30 00. INSTALLED BY DIVISION 26. CONFIRM MOUNTING HEIGHT. WIRE TO GFI BREAKER.

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