REPAIR BUILDING 1122
FITNESS CENTER
Fort McCoy, Wisconsin

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DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

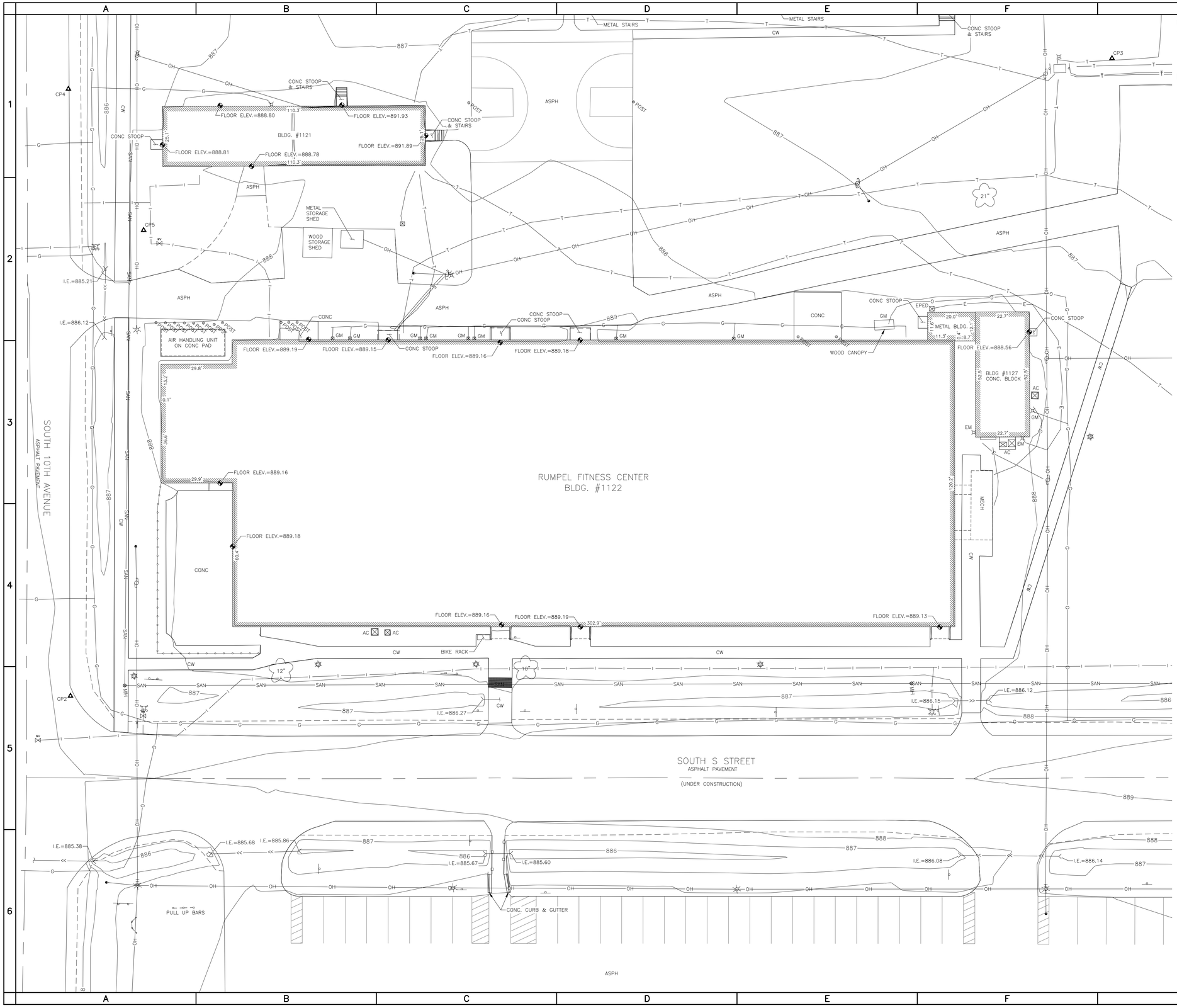
Designed by: SEH	Cad by: JM	Date: 09/15/21	
Dsn by: BF	Reviewed by: PF	Rev. #	Work Order No 1186
Submitted by: DPW		Project Number ES 120G3-2J	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

COVER SHEET

SHEET NUMBER:
G0.1

SHEET 1 of 116



NOTES:

1. HORIZONTAL DATUM IS REFERENCED TO THE MONROE COUNTY COORDINATE SYSTEM.
2. VERTICAL DATUM IS REFERENCED TO NAVD88(2007).

LEGEND OF SYMBOLS, LINETYPES, AND ABBREVIATIONS

- SURVEY CONTROL POINT
- UTILITY POLE
- GUY WIRE & ANCHOR
- SOIL BORING
- WATER VALVE
- FIRE HYDRANT
- UTILITY METER/PEDESTAL
- UTILITY PANEL/BOX
- SIGN
- LIGHT POLE
- DECIDUOUS TREE

- UNDERGROUND COMMUNICATIONS LINE
- UNDERGROUND ELECTRIC LINE
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- UNDERGROUND GAS UTILITY

AC	AIR CONDITIONER
ASPH	ASPHALT
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CW	CONCRETE SIDEWALK
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INV.	INVERT
I.E.	INVERT ELEVATION
MECH	MECHANICALS (I.E. HVAC, ETC.)
MH	MANHOLE
NO.	NUMBER
TPED	TELEPHONE PEDESTAL
TYP	TYPICAL

SURVEY CONTROL POINT TABLE

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	888.42	405,974.27	664,623.78	PK NAIL
2	887.99	405,520.31	664,449.22	PK NAIL
3	886.85	405,985.55	664,235.21	SPIKE
4	887.38	405,549.40	664,196.42	PK NAIL
5	886.96	405,573.77	664,258.94	SPIKE

1 TOPOGRAPHIC SURVEY
Scale: 1" = 20'

Himalayan Consultants, LLC
Engineers and Hydrogeologists

DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

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REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

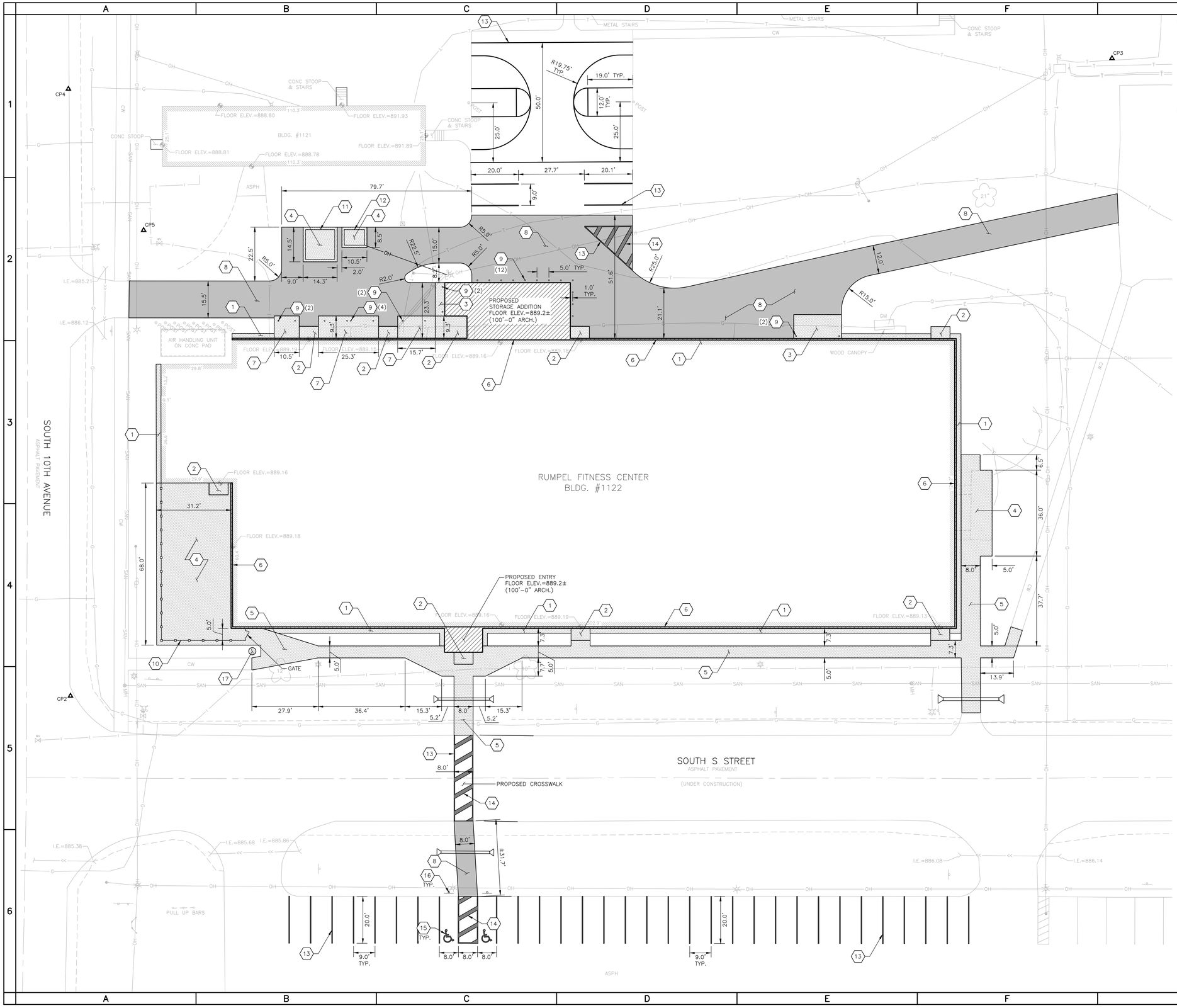
Designed by: MAB
Drawn by: SS
Cad by: MAB
Reviewed by: DMB
Submitted by: DPW
Date: 09/15/21
Rev.:
Work Order No 1186
Project Number ES 12003-2J

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

TOPOGRAPHIC SURVEY

SHEET NUMBER:
C1.0
SHEET 2 of 116

Plot date: 10/09/2021



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- SIGN
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AC	AIR CONDITIONER
ASPH	ASPHALT
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CW	CONCRETE SIDEWALK
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5	886.96	405,573.77	664,258.94	SPIKE

SITE PLAN KEY NOTES

1. PROPOSED 24" WIDE CONCRETE MAINTENANCE STRIP, SEE STRUCTURAL DRAWINGS FOR DETAILS.
2. PROPOSED CONCRETE STOOP, SEE STRUCTURAL DRAWINGS FOR DETAILS.
3. PROPOSED CONCRETE APRON, SEE STRUCTURAL DRAWINGS FOR DETAILS.
4. PROPOSED CONCRETE PAVEMENT, SEE DETAIL 1/C5.0.
5. PROPOSED CONCRETE SIDEWALK, SEE DETAIL 1/C5.0.
6. PROPOSED DECORATIVE BLOCK & BRICK VENEER. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
7. PROPOSED CONCRETE PAD FOR COOLING UNIT.
8. PROPOSED ASPHALT PAVEMENT, SEE DETAIL 2/C5.0.
9. PROPOSED 6" DIA. CONCRETE-FILLED STEEL BOLLARDS. (QUANTITY), SEE DETAIL 6/C5.0.
10. PROPOSED DECORATIVE FENCE, SEE DETAIL 3/C5.0 AND 4/C5.0 FOR GATE DETAIL.
11. EXISTING METAL STORAGE SHED ON NEW CONCRETE PAD.
12. EXISTING HAZARDOUS MATERIALS STORAGE CABINET, ON NEW CONCRETE PAD.
13. PROPOSED PAVEMENT STRIPING, WHITE, 4" WIDE
14. PROPOSED DIAGONAL PAVEMENT STRIPING, WHITE, 18" WIDE, 6' O.C.
15. PROPOSED HANDICAPPED PARKING SYMBOL, WHITE
16. PROPOSED HANDICAPPED SIGN, SEE DETAIL 5/C5.0
17. PROPOSED 3' DIA. CONCRETE SUMP CROCK, SEE DETAIL 7/C5.0

1 SITE PLAN
Scale: 1" = 20'

Himalayan Consultants, LLC
Engineers and Hydrogeologists

DPW
FORT MCCOY, WI

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FORT McCOY, WISCONSIN

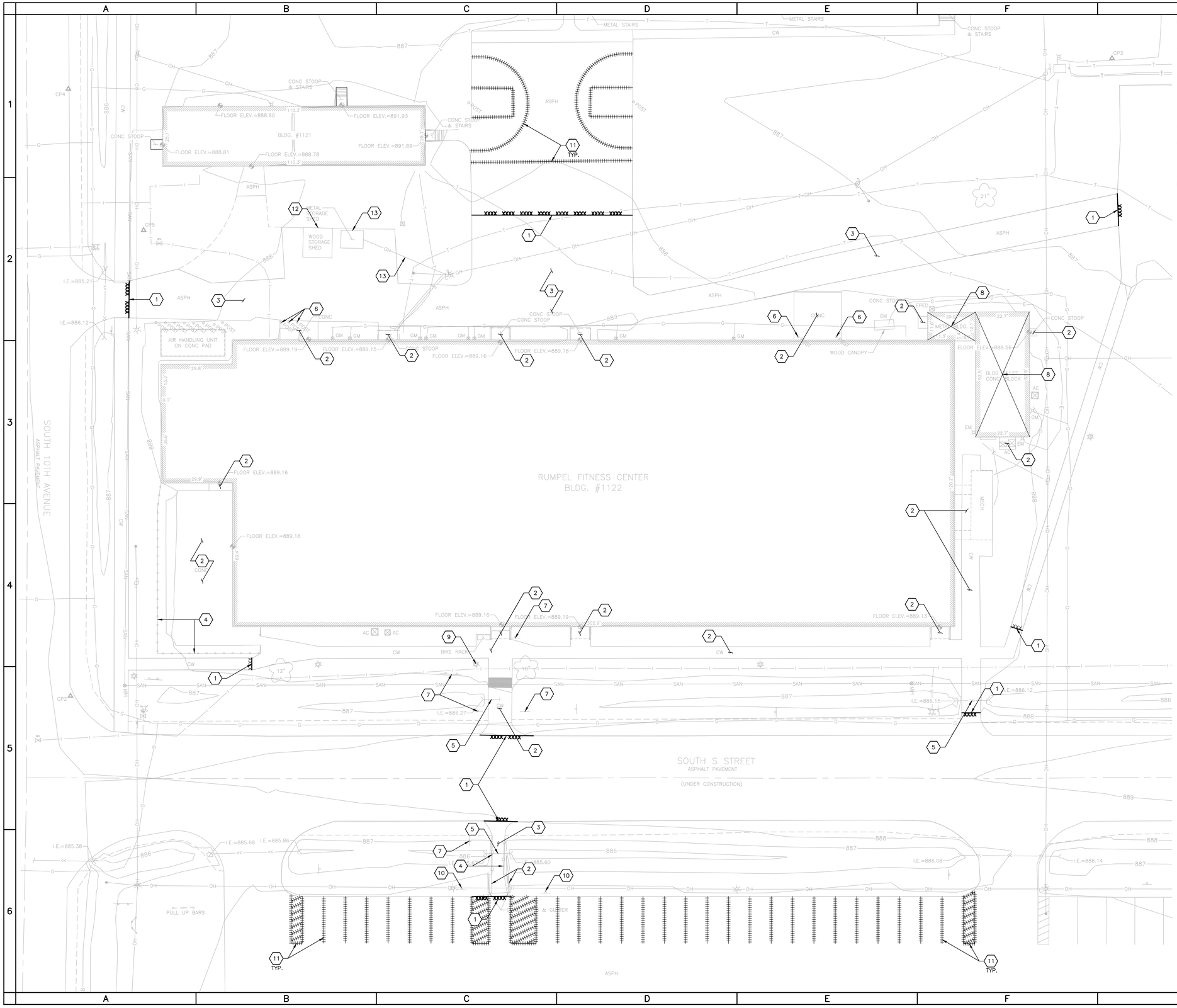
Designed by: MAB
Drawn by: SS
Ckd by: MAB
Reviewed by: DMB
Submitted by: DPW
Date: 09/15/21
Rev.
Work Order No 1186
Project Number ES 12003-23

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 6TH AVE.
FORT MC COY, WI 54656

SITE PLAN

SHEET NUMBER:
C2.0
SHEET 3 of 116

Plot date: 10/09/2021



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4. PRIOR TO EXCAVATION, CONTACT DIGGER'S HOTLINE. COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF CONTRACTOR'S OPERATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
5. ALL EXISTING SITE AREAS, EQUIPMENT, AND STRUCTURES NOT IDENTIFIED FOR DEMOLITION REMAIN IN PLACE AND UNDISTURBED.
6. PROVIDE PROTECTIVE MEASURES DURING ALL PHASES OF CONSTRUCTION TO PROTECT EXISTING SITE AREAS, EQUIPMENT, AND STRUCTURES NOT INCLUDED AS PART OF THE WORK.
7. SEE MEP PLANS FOR DEMOLITION OF SITE UTILITIES.

LEGEND OF SYMBOLS, LINETYPES, AND ABBREVIATIONS

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MH	MANHOLE
NO.	NUMBER
TPED	TELEPHONE PEDESTAL
TYP	TYPICAL

DEMO PLAN KEY NOTES

1. PROPOSED FULL-DEPTH SAWCUT.
2. EXISTING CONCRETE PAVEMENT, SIDEWALK, CURB & GUTTER, OR STOOP TO BE REMOVED.
3. EXISTING ASPHALT PAVEMENT TO BE REMOVED.
4. EXISTING WOOD/ METAL FENCE TO BE REMOVED.
5. EXISTING CULVERT TO BE REMOVED.
6. EXISTING STEEL PIPE BOLLARD TO BE REMOVED.
7. EXISTING SIGNAGE TO BE REMOVED AND/ OR RELOCATED.
8. EXISTING BUILDING TO BE REMOVED.
9. EXISTING METAL LIGHT POLE TO BE REMOVED AND/ OR RELCOATED.
10. EXISTING HANDICAPPED SIGN TO BE REMOVED.
11. EXISTING PAVEMENT MARKING TO BE REMOVED.
12. EXISTING METAL STORAGE SHED TO BE TEMPORARILY RELOCATED.
13. EXISTING HAZARDOUS MATERIAL STORAGE CABINET AND OVERHEAD LINES TO BE TEMPORARILY RELOCATED.

Himalayan Consultants, LLC
Engineers and Hydrogeologists

1 DEMOLITION PLAN
Scale: 1" = 20'

DPW
FORT MCCOY, WI

MARK	DATE	MOD #

MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

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DEMOLITION PLAN

SHEET NUMBER:
C3.0
SHEET 4 of 116

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MH	MANHOLE
NO.	NUMBER
TPED	TELEPHONE PEDESTAL
TYP	TYPICAL

1 GRADING & DRAINAGE PLAN

Scale: 1" = 20'

Himalayan Consultants, LLC
Engineers and Hydrogeologists

DPW
FORT MCCOY, WI

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REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

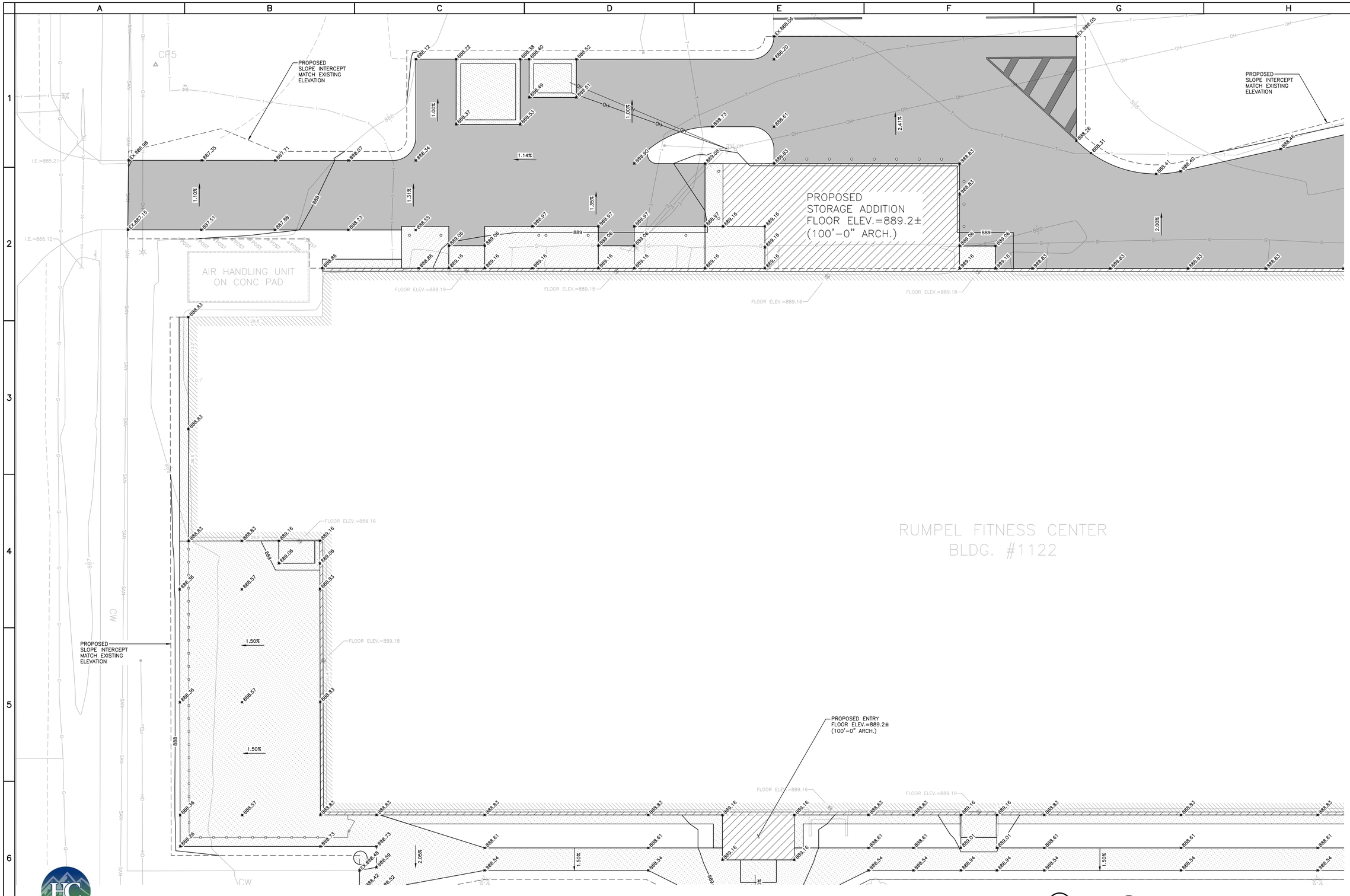
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Reviewed by: DMB | Work Order No 1186
Submitted by: DPW | Project Number EIS 12003-2J

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

GRADING & DRAINAGE PLAN

SHEET NUMBER:
C4.0
SHEET 5 of 116

Plot date: 10/09/2021



2 GRADING & DRAINAGE PLAN - SW

Scale: 1" = 10'

Himalayan Consultants, LLC
Engineers and Hydrogeologists

DPW
FORT MCCOY, WI

MARK	DATE	MOD REQUEST # - DESCRIPTION	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
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GRADING & DRAINAGE PLAN - SW

SHEET NUMBER:
C4.1
SHEET 6 of 116

Plot date: 10/09/2021

PROPOSED
STORAGE ADDITION
FLOOR ELEV.=889.2±
(100'-0" ARCH.)

PROPOSED
SLOPE INTERCEPT
MATCH EXISTING
ELEVATION

PROPOSED
SLOPE INTERCEPT
MATCH EXISTING
ELEVATION

PROPOSED ENTRY
FLOOR ELEV.=889.2±
(100'-0" ARCH.)

WOOD CANOPY

FLOOR ELEV.=889.16

FLOOR ELEV.=889.18

FLOOR ELEV.=889.19

FLOOR ELEV.=889.13

RUMPEL FITNESS CENTER
BLDG. #1122

3 GRADING & DRAINAGE PLAN - NW
Scale: 1" = 10'

Himalayan Consultants, LLC
Engineers and Hydrogeologists

DPW
FORT MCCOY, WI

MARK	DATE	MOD REQUEST # - DESCRIPTION	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

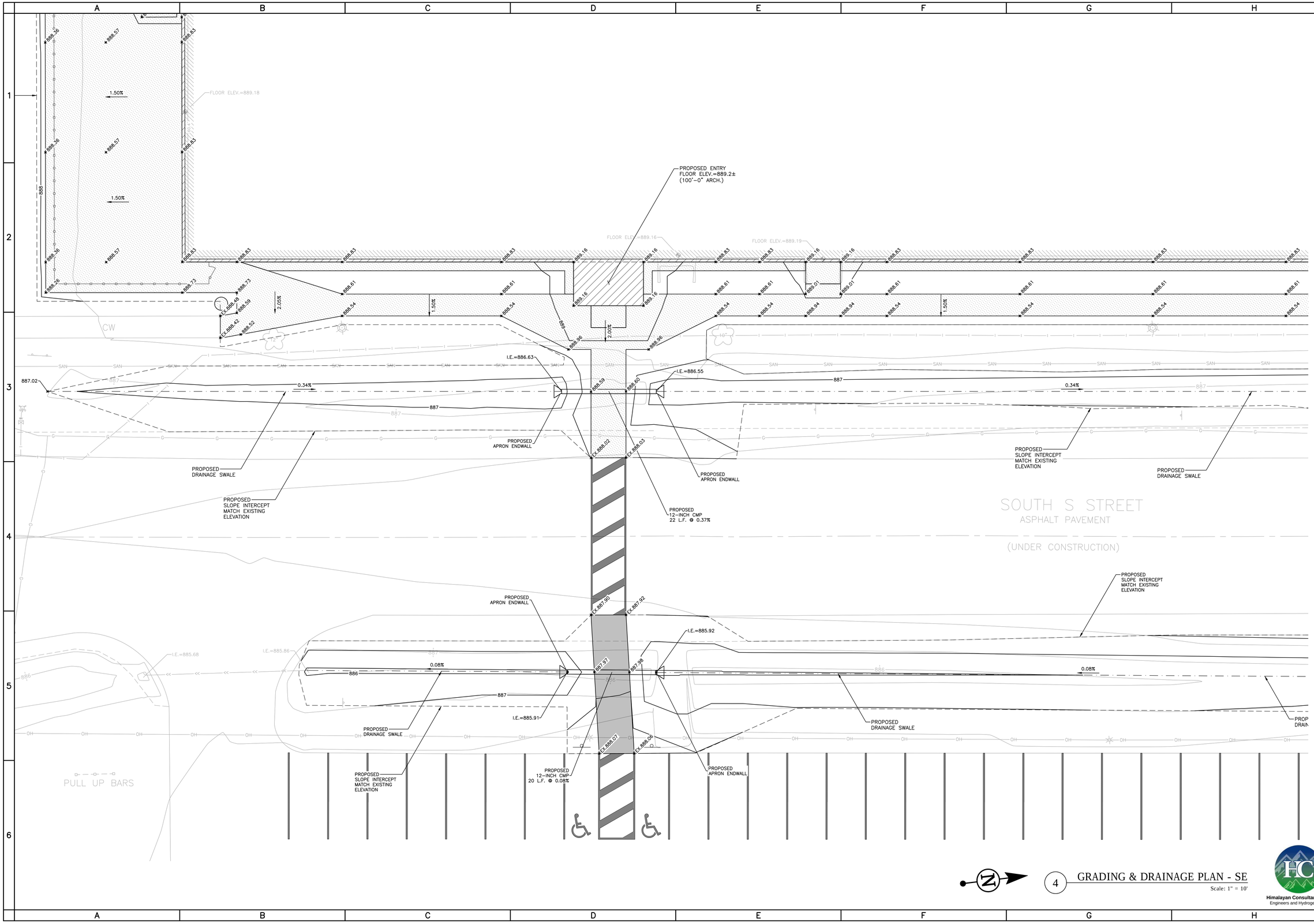
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GRADING & DRAINAGE PLAN - NW

SHEET NUMBER:
C4.2
SHEET 7 of 116

Plot date: 10/09/2021



4 GRADING & DRAINAGE PLAN - SE

Scale: 1" = 10'

Himalayan Consultants, LLC
Engineers and Hydrogeologists

DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by:	Date:
MAB	09/15/21
Dwn by:	Chd by:
SS	MAB
Reviewed by:	Work Order No
DMB	1186
Submitted by:	Project Number
DPW	ES 12003-2J

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

GRADING & DRAINAGE PLAN - SE

SHEET NUMBER:
C4.3
SHEET 8 of 116

Plot date: 10/09/2021

BLDG. #1122

PROPOSED SLOPE INTERCEPT MATCH EXISTING ELEVATION

1.50%

888.83 888.67 888.60

1.50%

888.83 888.67

FLOOR ELEV.=889.13

889.16 889.16 888.83 888.83 888.83 888.83 889.16 889.04 EX.888.05 EX.887.99

889.01 889.01 888.61 888.61 888.61 888.61 889.01 889.01 889.01 888.89 888.43 888.36

888.94 888.94 888.54 1.50% 888.54 888.54 888.54 1.50% 888.54 888.90 888.90 888.90 888.82 888.36

I.E.=885.91 I.E.=885.83

887 886 887 888 887 886 0.34% 0.34%

888.29 888.21 EX.888.08 EX.888.01

PROPOSED SLOPE INTERCEPT MATCH EXISTING ELEVATION

PROPOSED DRAINAGE SWALE

PROPOSED APRON ENDWALL

PROPOSED 15-INCH CMP 23 L.F. @ 0.34%

PROPOSED APRON ENDWALL

PROPOSED DRAINAGE SWALE

PROPOSED SLOPE INTERCEPT MATCH EXISTING ELEVATION

SOUTH S STREET

ASPHALT PAVEMENT

(UNDER CONSTRUCTION)

PROPOSED SLOPE INTERCEPT MATCH EXISTING ELEVATION

888 887 886 0.08%

I.E.=886.08 I.E.=886.14

PROPOSED DRAINAGE SWALE

PROPOSED DRAINAGE SWALE

Himalayan Consultants, LLC
Engineers and Hydrogeologists

N

5 GRADING & DRAINAGE PLAN - NE

Scale: 1" = 10'

DPW
FORT MCCOY, WI

MARK	DATE	MOD REQUEST # - DESCRIPTION	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

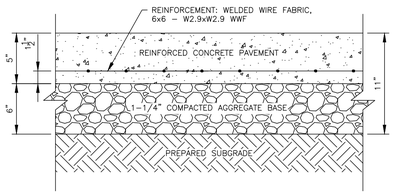
Designed by: MAB	Date: 09/15/21
Drawn by: SS	Ckd by: MAB
Reviewed by: DMB	Rev.
Submitted by: DPW	Work Order No 1186
	Project Number ES 12003-2J

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT McCOY, WI 54656

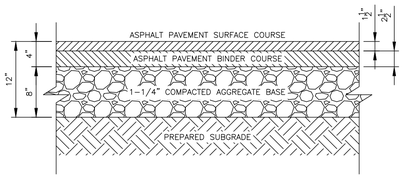
GRADING & DRAINAGE PLAN - NE

SHEET NUMBER:
C4.4
SHEET 9 of 116

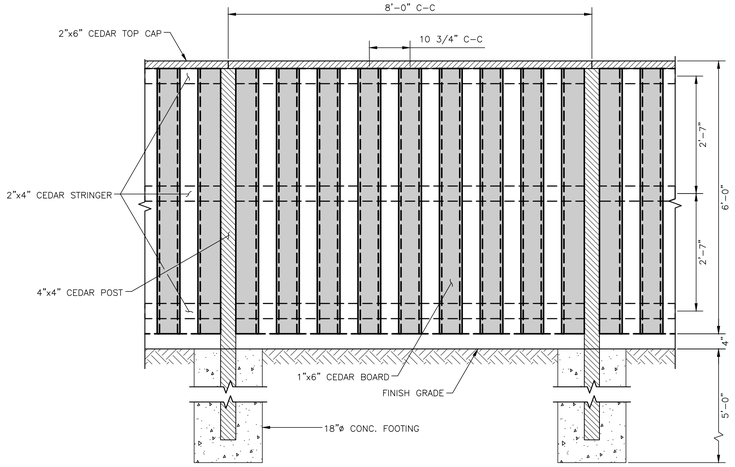
Plot date: 10/09/2021



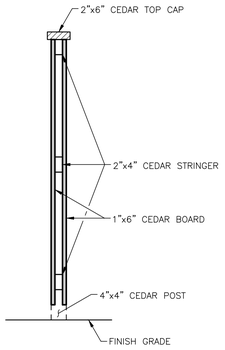
1 C5.0 CONCRETE PAVEMENT / SIDEWALK SECTION
N.T.S.

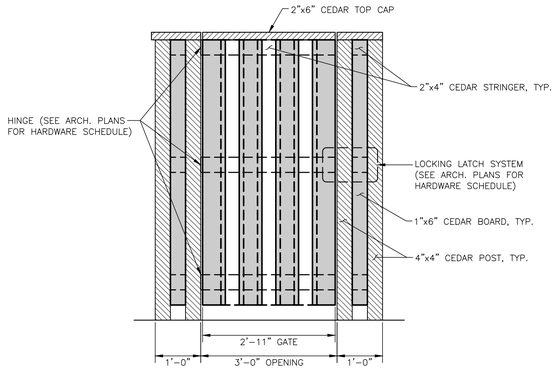


2 C5.0 ASPHALT PAVEMENT SECTION
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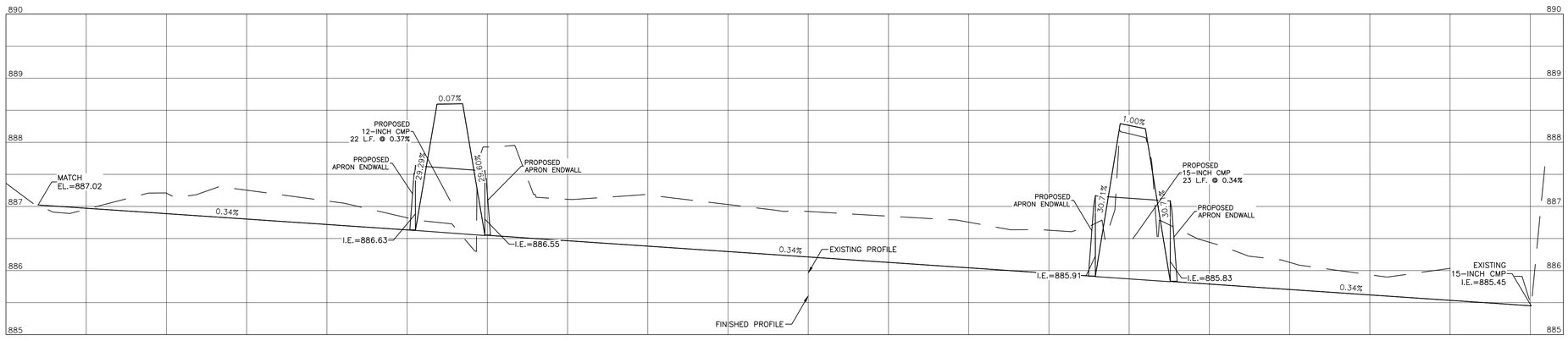


3 C5.0 SHADOWBOX FENCE TYPICAL SECTION DETAIL
N.T.S.

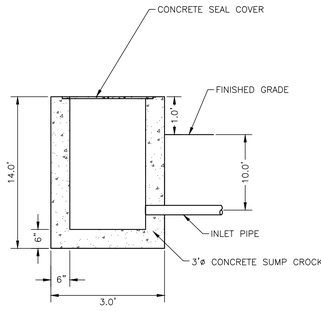




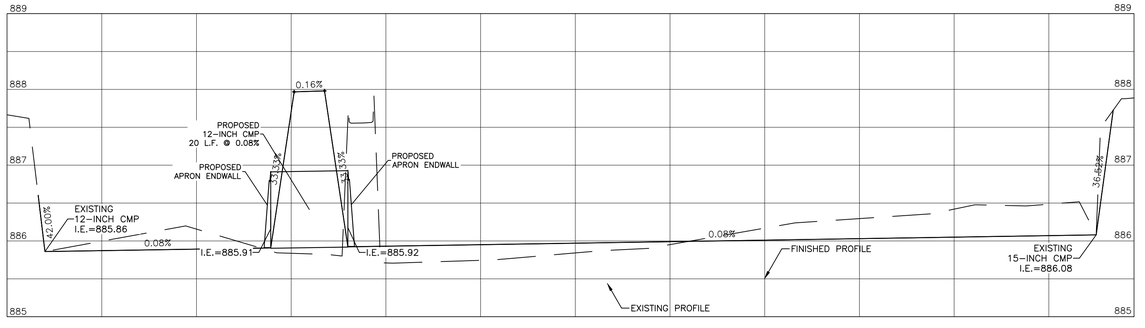
4 C5.0 SHADOWBOX FENCE GATE DETAIL
N.T.S.



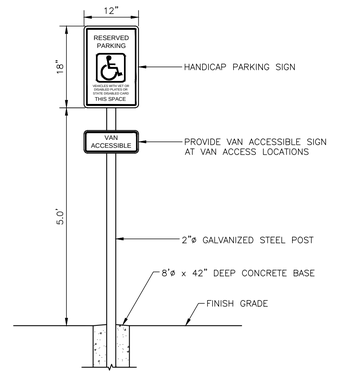
3 C5.0 WEST DITCH PROFILE - SOUTH S STREET
HORIZ. SCALE: 1" = 20'
VERT. SCALE : 1" = 1'



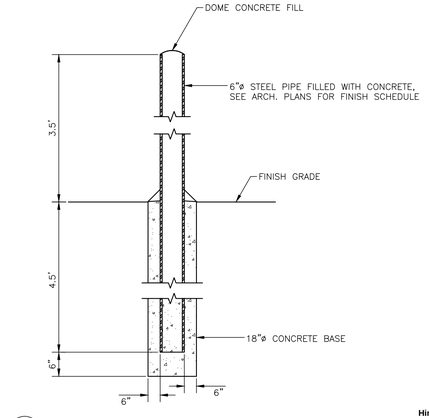
7 C5.0 SUMP CROCK DETAIL
N.T.S.



4 C5.0 WEST DITCH PROFILE - SOUTH S STREET
HORIZ. SCALE: 1" = 20'
VERT. SCALE : 1" = 1'



5 C5.0 HANDICAP SIGN DETAIL
N.T.S.



6 C5.0 BOLLARD DETAIL
N.T.S.

Himalayan Consultants, LLC
Engineers and Hydrogeologists

DPW
FORT MCCOY, WI

MARK	DATE	MOD REQUEST # - DESCRIPTION	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: MAB	Cad by: MAB	Work Order No 1186	Date: 09/15/21
Dwn by: SS		Reviewed by: DMB	Rev.
		Submitted by: DPW	Project Number ES 12003.23

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

CONSTRUCTION DETAILS

SHEET NUMBER:
C5.0
SHEET 10 of 116

Plot date: 10/09/2021

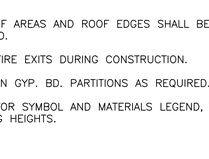
STANDARD ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AP	ACCESS PANEL
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR
AB	ANCHOR BOLT
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
AS	ATTIC SCUTTLE
AV	AUDIO VISUAL
ACOUST	ACOUSTICAL
ADO	AUTOMATIC DOOR OPERATOR
BCS	BABY CHANGING STATION
BLK	BLOCK
BCMU	BURNISHED CONCRETE MASONRY UNIT
BD	BOARD
BOT	BOTTOM
BFE	BOTTOM FOOTING ELEVATION
BR	BRICK
BR C	BRICK COURSE
BR L	BRICK LEDGE
BLDG	BUILDING
B.O.	BY OWNER
B BO	BULLETIN BOARD
CAB	CABINET
CPT	CARPET
CSWK	CASEWORK
CI	CAST IRON
CIP	CAST IRON PIPE
CB	CEMENT BOARD
CBD	CORKBOARD
CLG	CEILING
CEM	CEMENT
CL	CENTERLINE
C TO C	CENTER TO CENTER
CT	CERAMIC TILE
C BD	CHALK BOARD
CIRC	CIRCUIT (CIRCUMFERENCE)
CO	CLEANOUT
CLOS	CLOSET
CH	CLOTHES HOOK
CR	COLD ROLLED
COL	COMMUNICATION PANEL
CONC	CONCRETE
CONC BLK	CONCRETE BLOCK (STD)
C BLK	CONCRETE BLOCK
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CJ	CONTROL JOINT
CONT	CONTINUOUS
CONV	CONVECTOR
CG	CORNER GUARD
CMP	CORRUGATED METAL PIPE
CSK	COUNTER SINK
CS	COURSE
CU	CUBIC
CFM	CUBIC FOOT PER MINUTE
CUH	CABINET UNIT HEATER
CORR	CORRUGATED–CORRIDOR
DPG	DAMPROOFING
DEPT	DEPARTMENT
DET	DETAIL
DGB	DEMOUNTABLE GRAB BAR
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DO	DITTO
DR	DOOR
DWS	DOWELS
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
DF	DRINKING FOUNTAIN
DP	DUCTILE IRON PIPE
DKG	DECKING
EA	EACH
EF	EACH FACE, EXHAUST FAN
EWY	EACH WAY
E	EAST
EL	ELEVATION
ELEC	ELECTRIC(AL)
EWC	ELECTRIC WATER COOLER
ELEV	ELEVATION (BLDG);
ELEV	ELEVATOR
ENAM	ENAMEL
ENT	ENTRANCE
EP	EPOXY PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ET CETERA
EX	EXISTING
EJ	EXPANSION JOINT
EXT	EXTERIOR
EP	ELECTRICAL PANEL
EUH	ELECTRICAL UNIT HEATER
EW	EYE WASH STATION
FLRG	FLOORING
FB	FACE BRICK
FAP	FIRE ALARM PANEL
FIN	FINISH
FR	FIRE RATED
FIXT	FIXTURE
FHS	FLAT HEAD SCREW
FD	FLOOR DRAIN
FFAS	FLOOR FINISH AS SCHEDULE
FFE	FINISHED FLOOR ELEVATION
FE	FIRE EXTINGUISHER
FT	FOOT, FEET
FTG	FOOTING
FDN	FOUNDATION
FR	FRAME
FA	FRESH AIR
FS	FULL SIZE
FURR	FURRING
FRMG	FRAMING
GL BLK	GLASS BLOCK
GPM	GALLONS PER MINUTE
GALV	GALVANIZED
GI	GALVANIZED IRON
G	GAS
GA	GAUGE
GEN	GENERAL
GC	GENERAL CONTRACTOR
GL	GLASS OR GLAZING
GCMU	GLAZED CONCRETE MASONRY UNIT
GB	GRAB BAR
GR	GRADE
GRV	GRAVITY ROOF VENTILATOR
GYP BD	GYPSUM BOARD
HCP	HANDICAPPED
HD	HAND DRYER
HR	HAND RAIL
HS	HAND SET
HDBD	HARDBOARD
HDW	HARDWARE
HDWD	HARDWOOD
HT	HEIGHT
HP	HIGH POINT
HM	HOLLOW METAL
HRD	HAIR DRYER
HORIZ	HORIZONTAL
HC	HANDICAPPED
H	HARDENER
HR	HOUR
HYD	HYDRANT
IN	INCH
ID	INSIDE DIAMETER
IF	INSIDE FACE
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JAN	JANITOR
JT	JOINT
JST	JOIST
KP	KICK PLATE
KD	KNOCK DOWN
KO	KNOCK OUT
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LDR	LADDER
LIN	LINOLEUM
LOC	LOCATE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LB	POUND
LWCB	LIGHT WEIGHT CONC BLOCK
MB	MARKER BOARD
MBH	MOP & BROOM HOLDER
MFR	MANUFACTURER
MAS	MASONRY
MO	MASONRY OPENING
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MLBX	MAIL BOX
MEMB	MEMBRANE
MET	METAL
MEZZ	MEZZANINE
MIN	MINIMUM
MIR	MIRROR
M/S	MIROR WITH SHELF
MISC	MISCELLANEOUS
MM	MISCELLANEOUS METAL
MLDG	MOULDING
MP	METAL PANEL
MTG	MOUNTING
MULL	MULLION
MSU	MOBILE STORAGE UNIT
MSC	METAL STORAGE CABINET
MPBC	MASTER PUSH BUTTON CONTROL STATION
NOM	NOMINAL
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
OBS	OBSCURE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OFS	OVERFLOW SCUPPER
OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OA	OVERALL
OH	OVERHEAD
OHM	OVERHEAD MOTORIZED
ORD	OVERFLOW ROOF DRAIN
PT	PAINT
PNL	PANEL OR PANELING
PTD	PAPER TOWEL DISPENSER
PTD/R	PAPER TOWEL DISPENSER & RECEPTOR
PART	PARTITION
P BD	PEG BOARD
PERF	PERFORATED
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PL	PLATE
PL GL	PLATE GLASS
PLBG	PLUMBING
PLYWD	PLYWOOD
POL	POLISHED
PORT C	PORTLAND CEMENT
PRE FIN	PREFINISHED
PROJ	PROJECTION
PC	PRECAST
PVMT	PAVEMENT
QT	QUARRY TILE
RAD	RADIATION RADIATOR
REINF CONC	REINFORCED CONCRETE
RWL	RAIN WATER LEADER
REC	RECESSED
RDWD	REDWOOD
REF	REFRIGERATOR
REINF	REINFORCED(ING)
REM	RECESSED ENTRY MAT
REQD	REQUIRED
RES	RESILIENT
RA	RETURN AIR
RH	RIGHT HAND
R	RISER OR RADIUS
RD	ROOF DRAIN
RV	ROOF VENT
RM	ROOM
RO	ROUGH OPENING
RUB	RUBBER
RT	RUBBER TILE OR TREAD
RS	ROUGH SLAB
RCP	REINFORCED CONCRETE PIPE
RPS	ROLL DOWN PROJECTION SCREEN
SCU	SCUPPER
SHLVG	SHELVING
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SF	SQUARE FOOT
SCHED	SCHEDULE
SLNT	SEALANT
SLR	SEALER
SRF	SEAMLESS RESILIENT FLOOR
SECT	SECTION
SS	SERVICE SINK
SHT	SHEET
SIM	SIMILAR
SOG	SLAB ON GRADE
SD	SOAP DISPENSER
S	SOUTH OR SINK
SH	SPRINKLER HEAD
SQ	SQUARE
S ST	STAINLESS STEEL
ST	STONE
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SA	SUPPLY AIR
SUSP	SUSPENDED
SW	SWITCH
SRCUH	SEMI–RECESSED CABINET UNIT HEATER
SU	SHELVING UNIT
TS	TACK STRIP
TVL	TOP OF VENEER LEDGE
TEL	TELEPHONE
TV	TELEVISION
TEMP	TEMPERED, TEMPORARY
TERR	TERRAZZO
TH	TEST HOLE
THRES	THRESHOLD
TD	TOILET PAPER DISPENSER
TLT PTN	TOILET PARTITION
T AND G	TONGUE AND GROOVE
T AND B	TOP AND BOTTOM
TFE	TOP OF FOOTING ELEVATION
TO MAS	TOP OF MASONRY
TOS	TOP OF STEEL
TB	TACK BOARD
T	TREAD
TF	TROWELED FINISH
TS	TUBE STEEL
TYP	TYPICAL
UNFIN	UNFINISHED
UH	UNIT HEATERS
UV	UNIT VENTILATOR
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UR	URINAL
UR SCR	URINAL SCREEN
VAC	VACUUM
VB	VINYL BASE
VENT	VENTILATOR
VERM	VERMICULITE
V PLAS	VERMICULITE PLASTER
VERT	VERTICAL
VEST	VESTIBULE
VCT	VINYL COMPOSITE TILE
VT	VINYL TILE
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
VWF	VINYL WALL FABRIC
WSCT	WAINSCOT
WF	WALL FABRIC
WC	WATER CLOSET
WH	WATER HEATER
WMP	WIRE MESH PARTITION
WP	WATER PROOFING
WR	WATER RESISTANT
WS	WATER SOFTENER
WSP	WEATHERSTRIP
WT	WEIGHT/WALL TILE
WWF	WELDED WIRE FABRIC
W	WEST, WIRE
WF	WIDE FLANGE (STEEL) OR WASH FOUNTAIN
WDW	WINDOW
W/	WITH
W/O	WITH OUT
WG	WIRE GLASS
WD	WOOD
WR	WASTE RECEPTACLE
YD	YARD
@	AT
℄	CENTER LINE
Ø	DIAMETER

ARCHITECTURE STANDARD SYMBOLS LEGEND

- A1 / A400 — BUILDING SECTION CUT
- A1 / A400 — WALL SECTION CUT
- A1 / A400 — DETAIL CUT
- A1 / A400 — DETAIL AREA
- A1 / A400 — ENLARGED PLAN
- A1 / A400 — EXTERIOR ELEVATIONS
- N / W A1 A400 E / S — INTERIOR ELEVATIONS
- North — NORTH ARROW
- X — WALL TYPES
- X — KEY NOTE
- 101A — ROOM OPENING NUMBER
- ROOM 101 — ROOM NAME / ROOM NUMBER
- 3 — REVISION TAG WITH CLOUD
- NEW WALL
- EXISTING WALL TO REMAIN
- EXISTING INTERIOR WALL TO BE DEMOLISHED (STEEL STUD & GYP. BD.)
- EXISTING EXTERIOR WALL COMPONENTS TO BE DEMOLISHED. PRIMARY STEEL STRUCTURE, SECONDARY STEEL FRAMING, AND CMU WAINSCOT TO REMAIN, U.N.O.
- EXISTING INTERIOR CMU WALL AND FOOTING TO BE DEMOLISHED
- EXISTING INTERIOR STEEL STUD GYP. BD. WALL ABOVE CMU WALL TO BE DEMOLISHED INDICATED BY HEAVY DASHED LINE
- PORTION OF EXISTING CONCRETE FLOOR SLAB, CONCRETE APRON, CONCRETE SIDEWALK, CONCRETE STOOP, OR BITUMINOUS PAVING TO BE DEMOLISHED
- T. MASONRY 114'–0" — VERTICAL HEIGHT IDENTIFIER
- OVERHEAD
- HIDDEN BELOW
- EXISTING DOOR TO BE DEMOLISHED, EXISTING FRAME TO REMAIN
- EXISTING DOOR TO BE DEMOLISHED
- NEW DOOR
- W22 — WINDOW TYPE
- MATCH LINE / SEE A1.0 — MATCH LINE

CONSTRUCTION GRID

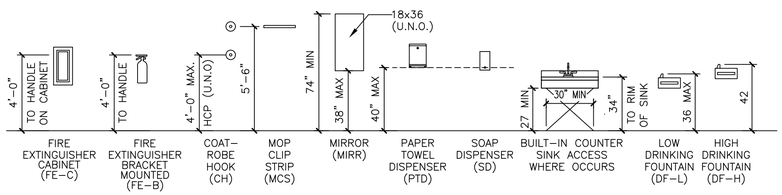


- WORK/CONTROL POINT

MATERIALS LEGEND

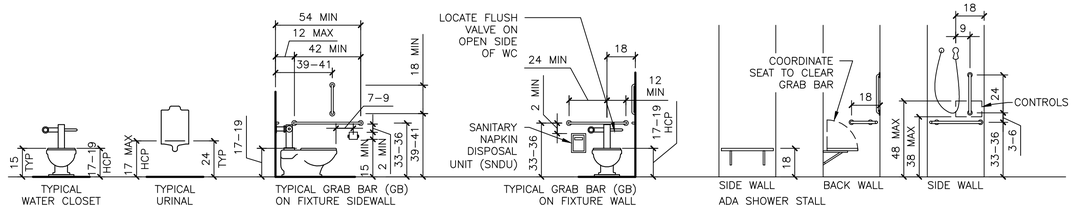
- C.I.P. CONCRETE OR PRECAST CONCRETE
- GROUT
- EARTH
- GRANULAR FILL
- INSULATION – BATT
- INSULATION – RIGID
- METAL
- WOOD – ROUGH
- CONCRETE MASONRY UNIT
- GYPSUM BOARD (G.B.)
- WOOD – FINISH
- ACOUSTIC MATERIAL
- PLYWOOD

TYPICAL PLAN SYMBOLS AND MOUNTING HEIGHTS LEGEND



GENERAL NOTES:

1. THIS DRAWING CONTAINS STANDARD SYMBOLS. NOT ALL ITEMS APPEAR IN THESE DRAWINGS.
2. CONTRACTOR SHALL PROVIDE FIRE TREATED WOOD BLOCKING IN DRYWALL PARTITIONS FOR MOUNTING OF WALL ATTACHED ITEMS INCLUDING, BUT NOT LIMITED TO : GRAB BARS, CABINETS / SHELVING, TOILET PARTITIONS, ACCESSORIES, DOOR BUMPER STOPS
3. STANDARD MOUNTING HEIGHTS APPLY TO DRAWINGS UNLESS INDICATED OTHERWISE.
4. GRAB BARS SHALL BE INSTALLED PLUMB OR LEVEL.
5. NOTIFY ARCHITECT OF ANY DISCREPANCIES.



GENERAL NOTES

1.THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL PERMITS, LICENSES AND CERTIFICATIONS NEEDED TO PERFORM THE WORK AT THE CONTRACTOR'S EXPENSE.

2. ALL EQUIPMENT INSTALLATIONS MUST BE IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED DATA AND RECOMMENDATIONS.

3. CONTRACTOR MUST PERFORM ALL WORK IN ACCORDANCE WITH THE MOST RECENT EDITION OF EM 385–1–1 SAFETY AND HEALTH REQUIREMENTS MANUAL (2014 EDITION)

4. CONTRACTOR MUST PROVIDE ADVANCE WRITTEN NOTIFICATION TO ALL AFFECTED UTILITY COMPANIES MINIMUM OF FIVE DAYS PRIOR TO THE START OF CONSTRUCTION.

5. CONTRACTOR IS RESPONSIBLE TO OBTAIN UTILITY LOCATES PRIOR TO THE START OF EXCAVATION OPERATIONS AND MAINTAIN UTILITY MARKINGS DURING CONSTRUCTION.

6. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING SITE CONDITIONS. GOVERNMENT INFORMATION, DATA AND DRAWINGS ARE FOR REFERENCE ONLY, NOT FOR CONSTRUCTION, AND DO NOT CONTAIN ALL EXISTING UTILITIES AND SITE CONDITIONS. CONTRACTOR MUST NOT REPLY UPON GOVERNMENT INFORMATION, DATA AND DRAWINGS AS SUBSTITUTE FOR CONTRACTOR VERIFICATION.

7. SCALES SHOWN APPLY ONLY WHEN DRAWINGS ARE PRINTED ON 22" X 34" PAPER. SCALES ARE HALF SIZED WHEN PRINTED ON 11" X 17" PAPER.

8. ALL MATERIALS, LABOR, EQUIPMENT AND WORK MUST BE IN ACCORDANCE WITH STANDARDIZED CONSTRUCTION METHODS AND PRACTICES, MANUFACTURER'S PUBLISHED DATA RECOMMENDATIONS, AND ALL FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, STATUES, AND CODES.

9. MECHANICAL AND ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. CROSS–REFERENCE ARCHITECTURAL DRAWINGS WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS TO ASSURE COORDINATION OF LOCATIONS, SIZES, AND MATERIALS.

10. VERIFY LOCATION, SIZE AND WALL THICKNESS REQUIRED TO RECESS MECHANICAL AND ELECTRICAL ITEMS AND MAINTAIN FIRE RATING REQUIRES OF THE WALL AT THESE BUILT–INS: UNIT HEATERS, CONVECTORS, ELECTRICAL PANELS, FIRE EXTINGUISHER CABINETS, DUCTS, PIPING, AND ALL OTHER RECESSES.

11. VERIFY ELEVATION OF ALL FLOOR SLABS DEPRESSIONS TO RECEIVE FLOOR MATERIAL PER FINISH SCHEDULE AND DETAILS.

12. EXTEND ALL NONBEARING GYPSUM BOARD PARTITIONS TO UNDERSIDE OF STRUCTURE OR DECK AND SEAL W/ SOFT JOINT – UNO.

13. WOOD USED AT ROOF AREAS AND ROOF EDGES SHALL BE WEATHER–TREATED – UNO.

14. MAINTAIN BUILDING FIRE EXITS DURING CONSTRUCTION.

15. PROVIDE BLOCKING IN GYP. BD. PARTITIONS AS REQUIRED.

16. SEE SHEETS A001 FOR SYMBOL AND MATERIALS LEGEND, WALL TYPES, TYPICAL MOUNTING HEIGHTS.

DPW
FORT MCCOY, WI

MARK	DATE	MOD #

MOD REQUEST # - DESCRIPTION

SEH

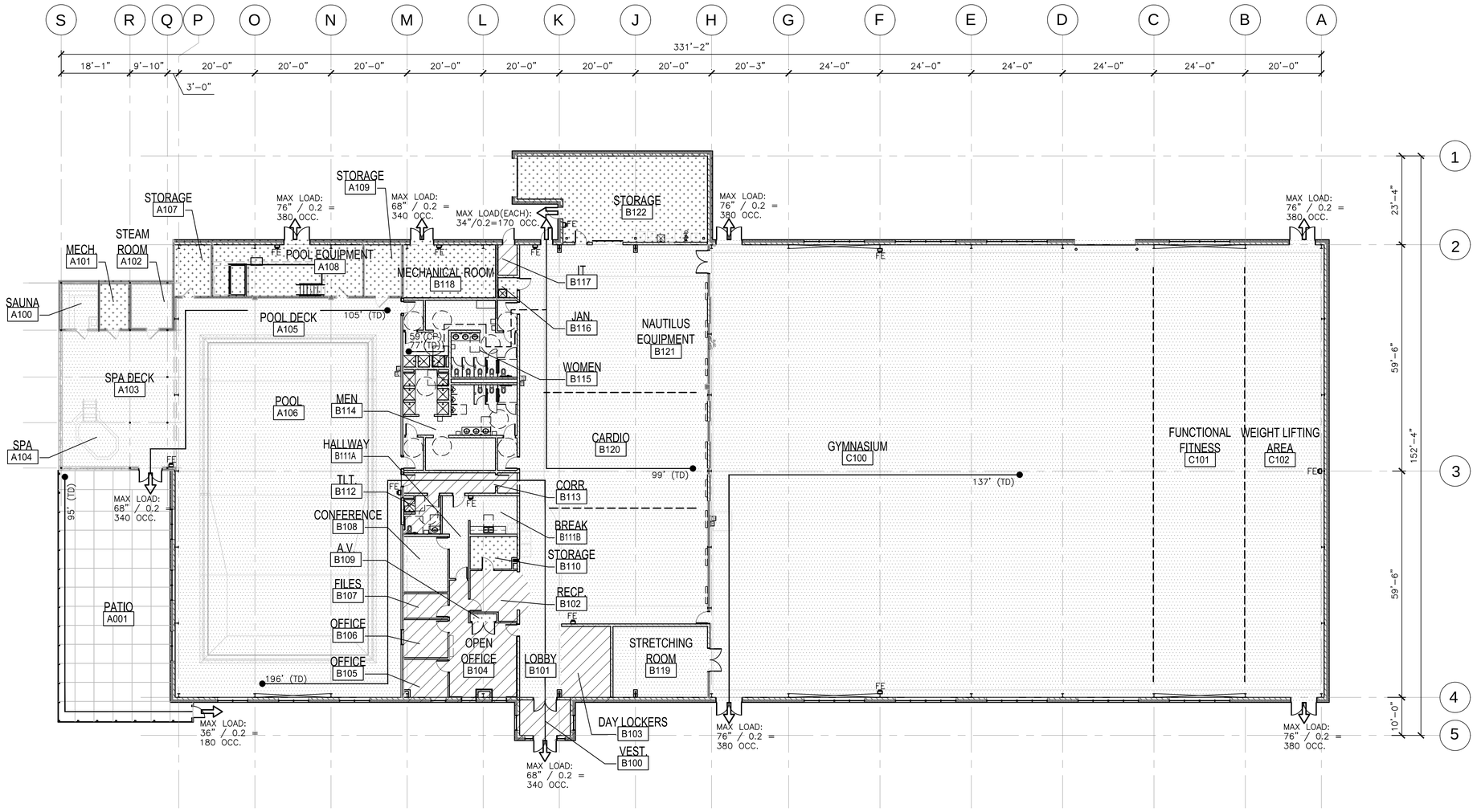
REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: SEH
Date: 09/15/21
Drawn by: BF
Ckd by: JM
Reviewed by: PF
Rev.
Submitted by: DPW
Work Order No 1186
Project Number ES 12003-23

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

GENERAL NOTES AND SYMBOLS

SHEET NUMBER:
A0.1
SHEET 11 of 116



1 CODE PLAN

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

OCCUPANT LOAD					
ROOM	ROOM NAME	USE DESCRIPTION	AREA	AREA/OCC	LOAD
A100	SAUNA	ASSEMBLY A3	142 SF	50 SF GROSS	2.8
A101	MECHANICAL	MECHANICAL S1	108 SF	300 SF GROSS	0.4
A102	STEAM ROOM	ASSEMBLY A3	159 SF	50 SF GROSS	3.2
A103	SPA DECK	ASSEMBLY A3	1,013 SF	30 SF GROSS	34.8
A104	SPA	ASSEMBLY A3	112 SF	50 SF GROSS	2.2
A105	POOL DECK	ASSEMBLY A3	3,005 SF	30 SF GROSS	100.2
A106	POOL	ASSEMBLY A3	3,444 SF	50 SF GROSS	68.9
A107	STORAGE	STORAGE S1	154 SF	300 SF GROSS	0.5
A108	POOL EQUIPMENT	POOL MECHANICAL S1	603 SF	300 SF GROSS	2
A109	STORAGE	STORAGE S1	155 SF	300 SF GROSS	0.5
B100	VESTIBULE	BUSINESS B	175 SF	150 SF GROSS	1.2
B101	LOBBY	ASSEMBLY A3	364 SF	15 SF NET	24.3
B102	RECEPTION	BUSINESS B	188 SF	150 SF GROSS	1.3
B103	DAY LOCKERS	BUSINESS B	267 SF	50 SF GROSS	5.3
B104	OPEN OFFICE	BUSINESS B	448 SF	150 SF GROSS	3
B105	OFFICE	BUSINESS B	140 SF	150 SF GROSS	0.9
B106	OFFICE	BUSINESS B	126 SF	150 SF GROSS	0.8
B107	OFFICE	BUSINESS B	83 SF	150 SF GROSS	0.6

OCCUPANT LOAD					
ROOM	ROOM NAME	USE DESCRIPTION	AREA	AREA/OCC	LOAD
B108	CONFERENCE	ASSEMBLY A3	184 SF	15 SF NET	12.3
B109	A.V.	STORAGE S1	18 SF	300 SF GROSS	0.1
B110	STORAGE	STORAGE S1	117 SF	300 SF GROSS	0.4
B111A	HALLWAY	ASSEMBLY A3	63 SF	15 SF NET	4.2
B111B	BREAKROOM	ASSEMBLY A3	217 SF	15 SF NET	14.5
B112	TOILET	BUSINESS B	112 SF	150 SF GROSS	0.7
B113	CORRIDOR	BUSINESS B	182 SF	150 SF GROSS	1.2
B114	MEN	BUSINESS B	766 SF	50 SF GROSS	15.3
B115	WOMEN	BUSINESS B	613 SF	50 SF GROSS	12.3
B116	JANITOR	MECHANICAL S1	34 SF	300 SF GROSS	0.1
B117	IT	BUSINESS B	55 SF	300 SF GROSS	0.2
B118	MECHANICAL ROOM	MECHANICAL S1	386 SF	300 SF GROSS	1.3
B119	STRETCHING ROOM	ASSEMBLY A3	518 SF	50 SF GROSS	10.4
B120	CARDIO	ASSEMBLY A3	2,846 SF	50 SF GROSS	56.9
B121	NAUTILUS EQUIPMENT	ASSEMBLY A3	2,002 SF	50 SF GROSS	40
B122	STORAGE	STORAGE S1	1,158 SF	300 SF GROSS	3.9
C100	GYMNASIUM	ASSEMBLY A3	14,219 SF	15 SF GROSS	947.9
C101	FUNCTIONAL FITNESS	ASSEMBLY A3	2,921 SF	50 SF GROSS	58.4
C102	WEIGHT LIFTING AREA	ASSEMBLY A3	2,702 SF	50 SF GROSS	54
		TOTAL:	39,799 GROSS SF		1,487 OCC.

LEGEND:

- MAX LOAD: XX" / 0.X = XXX OCC. — EXIT LOCATION, EGRESS COMPONENT WIDTH / CAPACITY FACTOR = MAXIMUM OCCUPANT LOAD
- ASSEMBLY AREAS
- BUSINESS AREAS (ACCESSORY)
- STORAGE AREAS (ACCESSORY)
- FE — FIRE EXTINGUISHER – VERIFY FINAL LOCATION WITH LOCAL JURISDICTION – SEE FLOOR PLAN FOR TYPE
- XX' (CP) — COMMON PATH OF TRAVEL (CP)
- XX' (TD) — TRAVEL DISTANCE (TD)

DPW
FORT MCCOY, WI

MARK	DATE	MOD #

MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: SEH
Drawn by: CS
Cad by: JM
Reviewed by: PF
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Date: 09/15/21
Rev. #
Work Order No 1186
Project Number ES 12003-23

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

CODE PLAN

SHEET NUMBER:
A0.2
SHEET 12 of 116

BUILDING CODE SUMMARY

Referenced Codes
- Unified Facilities Criteria – UFC 1–200–01, Change 1, 1 October 2020
  - o 2018 International Building Code (IBC)
  - o NFPA 101 – Life Safety Code (2018)
- Architectural Barriers Act (ABA) Accessibility Standards
- All references to the International Fuel Gas Code (IFGC) must be considered to reference NFPA 54 and NFPA 58
- All references to the International Mechanical Code (IMC) must be considered to reference UFC 3–410–01, Change 8, 21 July 2021, which cites the IMC.
- All references to the International Plumbing Code (IPC) must be considered to reference UFC 3–420–01, 01 April 2021, which cites the IPC.
- All references to the International Fire Code (IFC) must be considered to reference UFC 3–600–01, Change 6, 6 May 2021, which cites NFPA 1.
- All references to the International Energy Conservation Code (IECC) must be considered to reference UFC 1–200–02, Change 1, 1 October 2020, which cites ASHRAE 90.1 and ASHRAE 189.1
- UFC 4–010–01, Change 1, 19 August 2020 – Minimum Antiterrorism Standards for Buildings
  – This building is classified as an "Inhabited Building" and therefore will require all new exterior doors and windows to comply with minimum standards called for in section B–3 of the DoD minimum Antiterrorism Standards for Buildings.

I. CHAPTER 3 – Use and Occupancy Classification
- A. IBC
  1. Occupancy Type A3 Assembly – Reference IBC 303
  2. Occupancy Type B Business – Reference IBC 304
  3. Occupancy Type S1 Moderate–Hazard Storage – Reference IBC 311
- B. UFC 3–600–01, 3–3, 3–4
  1. Not applicable

II. CHAPTER 4 – Special Detailed Requirements Based on Use
- A. UFC 3–600–01
  1. NFPA 400 – Hazardous Materials Code

HAZARDOUS CHEMICAL DATA						
ROOM NO.	ROOM NAME	CHEMICAL	HAZARD	QUANTITY (STORAGE & USE)	PHYSICAL MAQ	HEALTH MAQ
108	POOL EQUIPMENT	CALCIUM HYPOCHLORITE	CORROSIVE	400 LBS	N/A	10,000 LBS. (a) – combined per control area
		SODIUM BISULFATE	CORROSIVE	400 LBS	N/A	

(a) Maximum allowable quantities shall be increased by 100% in buildings equipped throughout with an approved automatic sprinkler system in accordance with NFPA 13 (NFPA 400 Table 5.2.1.1.3)

a. High Hazard Level 4 Contents – Corrosive (4.2.1.2.4)
b. Spill control shall be provided in accordance with 6.2.1.9.2 (NFPA 400 – 12.2.1)
c. Drainage when provided shall be in accordance with 6.2.1.9.3.11 (NFPA 400 – 12.2.2)
d. Secondary containment shall be provided for corrosive liquids in accordance with 6.2.1.9.3 (NFPA 400 – 12.2.3)
e. Ventilation shall be provided for open containers in accordance with 6.2.1.5 (NFPA 400 – 12.2.5)
f. Fire Protection shall be provided in accordance with 6.2.1.1 (NFPA 400 – 12.2.5)
g. Floors shall be in accordance with 6.2.1.10 (NFPA 400 – 12.3.1)

III. CHAPTER 5 – General Building Heights and Areas
- A. IBC
  1. Construction Type: II–B, Sprinkled, Multi–Use Occupancy – Single–Story building is of non–combustible construction materials (Reference IBC Table 503)
  2. Non–Separated Use: (Reference IBC 508.3)
     a. No separation required between A, B and S–1 occupancies
  3. A3–Assembly Occupancy: Sprinkled (MOST RESTRICTIVE)
     a. Area/Floor and Height Permitted by IBC: 38,000, 75 feet, 3 stories
     b. Allowable Area Increases (Reference IBC 506.3)
        i. Frontage Increase: If = 0.75
        ii. Total Allowable Area: Aa= {38,000+(38,000 x 0.75)} = 66,500 SF
  4. Total Actual Building Area and Height:
     a. Total Building = 39,799 SF
     b. Actual Height: 29 feet +/–, 1 story
- B. UFC 3–600–01, 5–5, NFPA 101
  1. Incidental Use – Protection from Hazards
     a. Hazardous Materials (NFPA 101 – 8.7.3)
        i. Occupancies with storage, use and handling of hazardous materials shall comply with NFPA 400)

IV. CHAPTER 6 – Type of Construction
- A. IBC
  1. Fire Resistive Requirements: Type II–B Building
     a. Reference IBC Table 601

Exterior Bearing Walls	0 Hours
Interior Bearing Walls	0 Hours
Exterior Non–Bearing Walls	10 ≤X < 30ft = 0 Hours (see note #1 below)
Structural Frame	0 Hours
Partitions – Permanent	0 Hours
Shaft Enclosures	No shafts
Floors – Ceilings/Floors	0 Hours
Roofs – Ceilings/Roofs	0 Hours

  2. Table 602 – Exterior walls based on fire separation distance
     X ≥ 30 0 hours

Notes:
1.) Fire separation distance (X) from table 602 is greater than 10 feet for all sides of the building when measured in accordance with IBC 705.3. Measurement from face of building to lot line, imaginary lot line or centerline of street per IBC 705.3

V. CHAPTER 7 – Fire and Smoke Protection Features
- A. IBC
  1. Exterior Walls
     a. Openings: No limit to openings in exterior walls with fire separation distance of 30 feet or greater that are unprotected, sprinklered (UP,S) (Reference IBC Table 705.8)
- B. UFC 3–600–01
  1. Not applicable

VI. CHAPTER 8 – Interior Finishes
- A. UFC 3–600–01, NFPA 101, Chapter 10, 12, 13, 38, 39, 42
  1. Wall and Ceiling Finishes must tested in accordance with NFPA 286, ASTM E84 or ANSI/UL 723.
     a. New Assembly Occupancy
        i. Class A or B in corridors and lobbies
        ii. Class A, B in assembly areas where occupant load is over 300
        iii. Class A, B or C in assembly area with occupant load fewer than 300.
     b. New Business Occupancy
        i. Class A or B in exits and exit access corridors
        ii Class A, B or C in other area
     c. New Storage Occupancy
        i. Class A, B or C in exit enclosures
  2. Existing interior finishes shall be exempt from the smoke developed index criteria.
  3. Floor Finishes must classified in accordance with NFPA 253 or ASTM E648.
     a. New Assembly Occupancy
        i. No requirements
     b. New Business and Storage Occupancies
        i. Class I or II in exit enclosures

VII. CHAPTER 9 – Fire Protection Systems:
- A. UFC 3–600–1.
  1. Automatic Fire Sprinkler Systems.Required: Single Story, Type II construction facility greater than 15,000 sf gross (9–7.2.1.1)
  2. Ordinary Hazard Occupancy – Automatic Fire Sprinkler System is provided (Appendix B)
  3. Standpipe Systems
     a. Not required
  4. Portable Fire Extinguishers – UFC 3–600–1 states that portable fire extinguishers are not required when the facility is provided with complete automatic sprinkler protection and a fire alarm system.
     a. Fire Extinguisher will be provided in accordance with NFPA 10 Table 6.2.1.1
        Class A Fires:
        i. Maximum 1,500 square feet per unit of A
        ii. Maximum Floor area per extinguisher: 11,250 square feet
        iii. Maximum Travel Distance: 75–feet.
        iv. Minimum single rated unit: 2–A.

VIII. CHAPTER 10 – Means of Egress
- A. Occupant Loads (UFC 3–600–1 – Table 10–1, NFPA 101 Table 7.3.1.2.)
  1. Total Building Occupant Load 1,582.2 Occupants
     a. 1,003.2 Occupants (Based on 15 sf/occ)
     b. 135 Occupants (Based on 30 sf/occ)
     c. 296.8 Occupants (Based on 50 sf/occ)
     d. 9.7 Occupants (Based on 150 sf/occ)
     e. 9.4 Occupants (Based on 300 sf/occ)
  2. See Code Plan Drawings for Occupant Load distribution throughout the building
- B. Egress Distance/Width
  a. Travel Distance
  i. Business Occupancy: 300 feet (Reference NFPA 101 Chapter 38 Section 38.2.6.3)
  ii. Assembly Occupancy: 250 feet (Reference NFPA 101 Chapter 12 Section 12.2.6.2)
  iii. Storage Occupancy: 400 feet (Reference NFPA 101 Chapter 42 Table 42.2.6)
  iv. Travel distance measured from most remote location on a level to center of exit (Reference NFPA 101 Chapter 7, Section 7.6.1)
  b. Common Path of Egress Travel
  i. Business Occupancy: 100 feet with Automatic Sprinkler System (Reference NFPA 101 Chapter 38, section 38.2.5.3.1)
  ii. Assembly Occupancy: A common path of travel shall be permitted for the first 20 ft from any point where the common path serves any number of occupants, and for the first 75 ft from any point where the common path serves not more than 50 occupants (Reference NFPA 101 Chapter 12, Section 12.2.5.1.2.)
  iii. Storage Occupancy: 100 feet with Automatic Sprinkler System (Reference NFPA 101 Chapter 42, Table 42.2.5)
  c. Egress Width (Reference NFPA 101 Chapter 7, table 7.3.3.1)
  i. Minimum width of egress components shall be determined by multiplying the occupant load by 0.3 for stairways and 0.2 for ramps and level components.
  ii. See Code Plan for actual Occupant Loads and minimum egress width required per door
  d. The main entrance / exit shall be of the width that accommodates one–half of the total occupant load (Reference NFPA 101 – 12.2.3.6.2(2).
- C. Doors
  a. Width: Clear width of egress doors shall be a minimum of 32 inches (Reference NFPA 101, Chapter 7, section 7.2.1.2.3.2)

IX. CHAPTER 11 – Accessibility
- A. Use ABA Standards and the special provisions of the Department of Defense Memorandum Subject: Access for People with Disabilities, October 31, 2008.

X. CHAPTER 12 – Interior Environment
- A. Toilet and bathroom requirements
  1. Floors in toilet rooms shall have a smooth , hard , nonabsorbent surface. intersection of floors and walls shall have a smooth, hard, non absorbent vertical base that extends upward onto the wall not less than 4". (Reference IBC 1210.2.1)
  2. Wall and partitions within 2 feet of service sinks, urinals and water closets shall have a smooth, hard, non absorbent surface to a height of not less than 4 feet above the floor (Reference IBC 1210.2.2)

XI. CHAPTER 13 – Energy Efficiency
- A. UFC 1–200–02, Change 01, 1 October 2020.

XII. CHAPTER 29 – Plumbing Systems
- A. Fixture Requirements (Reference IBC Table 2902.1, Min. Number of Required Plumbing Fixtures)

USE	OCC. NUMBER	WATER CLOSETS / URINALS RATIO	# REQ.	# PROV.	LAVATORIES RATIO	# REQ.	# PROV.	DRINKING FOUNTAINS RATIO	# REQ.	# PROV.	SERVICE SINKS # REQ.	# PROV.
B OCC	43 (21.5 M) (21.5 W)	1 PER 25 FOR FIRST 50 AND 1 PER 50 FOR REMAINDER	0.86 (MEN) 0.86 (WOMEN)	SEE BELOW	1 PER 40 FOR FIRST 80 AND 1 PER 80 FOR REMAINDER	0.54 (MEN) 0.54 (WOMEN)	SEE BELOW	1 PER 100	0.43	SEE BELOW	1	SEE BELOW
A3 OCC	1,434 (717 M) (717 W)	1 PER 125 (MALE) 1 PER 65 (FEMALE)	5.74 (MEN) 11.03 (WOMEN)	SEE BELOW	1 PER 200	3.59 (MEN) 3.59 (WOMEN)	SEE BELOW	1 PER 500	2.87	SEE BELOW	1	SEE BELOW
S OCC	10 (5 M) (5 W)	1 PER 100	0.05 (MEN) 0.05 (WOMEN)	SEE BELOW	1 PER 100	0.05 (MEN) 0.05 (WOMEN)	SEE BELOW	1 PER 1,000	0.01	SEE BELOW	1	SEE BELOW
TOTALS:	1,487 OCC.		6.65 (MEN) 11.94 (WOMEN)	6.5 (MEN) 5.5 (WOMEN)		4.18 (MEN) 4.18 (WOMEN)	3.5 (MEN) 3.5 (WOMEN)		3.31	6	1	1

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

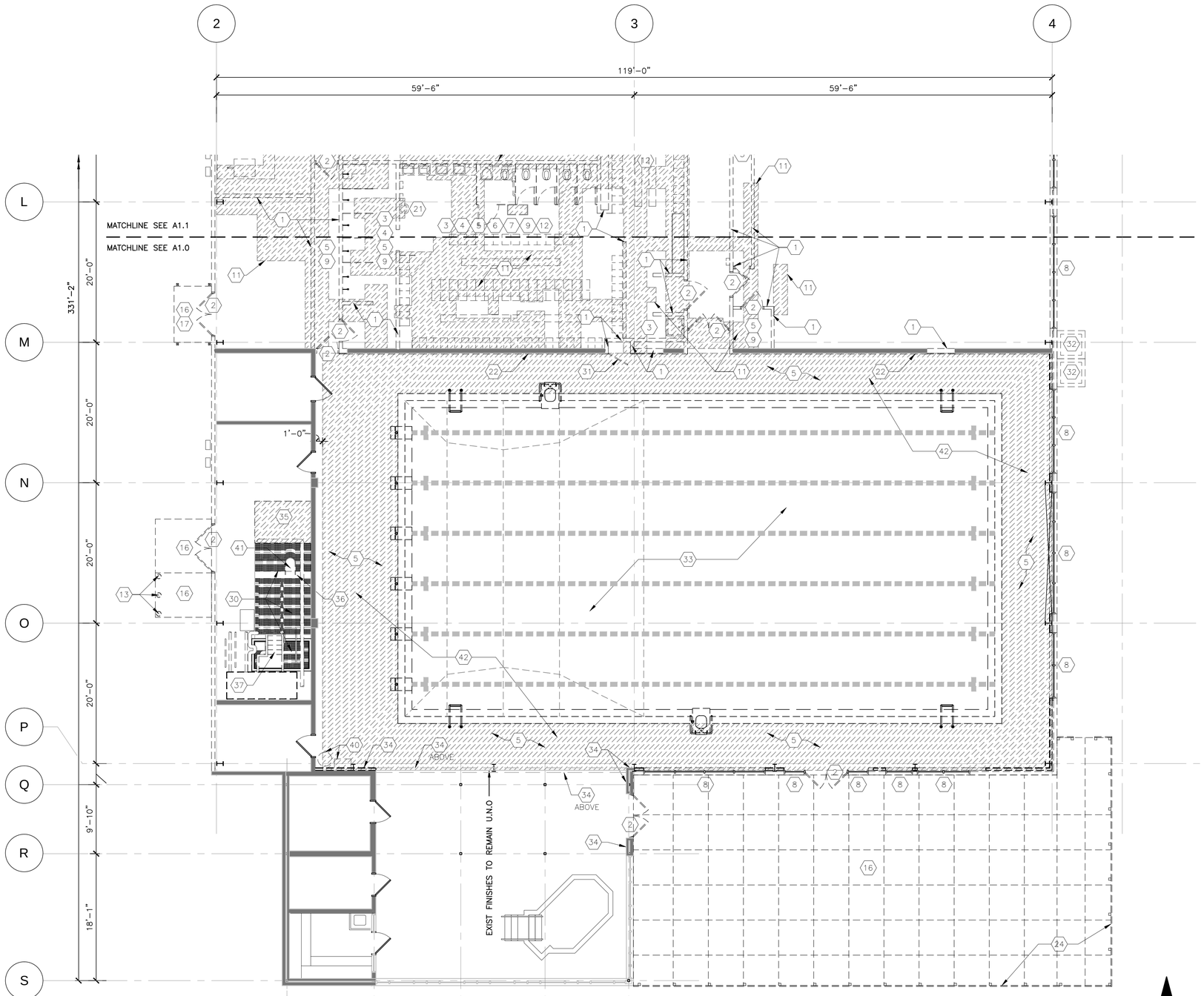
REPAIR BUILDING 1122
FITNESS CENTER
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Date: 09/15/21
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FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

BUILDING CODE SUMMARY

SHEET NUMBER:
A0.3
SHEET 13 of 116



1 PARTIAL DEMOLITION PLAN – AREA 'A'

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

DEMOLITION PLAN KEYNOTES:

1. REMOVE WALL OR PORTION AS SHOWN
2. REMOVE DOOR, FRAME AND HARDWARE, U.N.O.
3. REMOVE PLUMBING FIXTURES. SEE PLUMBING DEMOLITION SHEETS FOR ADDITIONAL INFORMATION
4. REMOVE TOILET/SHOWER PARTITIONS AND ALL ASSOCIATED ACCESSORIES
5. REMOVE FLOOR FINISH AND BASE
6. REMOVE VANITY COUNTER AND SUPPORT BRACKETS
7. REMOVE MIRRORS, SHELVING, DISPENSERS, DRYERS AND ALL ASSOCIATED TOILET ROOM ACCESSORIES
8. REMOVE WINDOW OR STOREFRONT
9. REMOVE CEILING AND ALL ASSOCIATED LIGHTING, VENTS, DIFFUSERS, ETC. SEE MECHANICAL AND ELECTRICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
10. REMOVE MASONRY BUILDING IN ITS ENTIRETY U.N.O
11. REMOVE PORTION CONCRETE FLOOR SLAB. CONTRACTOR'S OPTION TO REMOVE MORE THAN SHOWN TO REDUCE SAWCUTTING.
12. REMOVE LOCKERS AND BENCHES
13. REMOVE BOLLARD
14. REMOVE PREENGINEERED METAL BUILDING CORRIDOR IN ITS ENTIRETY U.N.O.
15. REMOVE CASEWORK AND/OR COUNTER AND ASSOCIATED SUPPORTS
16. REMOVE PORTION OF EXTERIOR CONCRETE APRON, CONCRETE SIDEWALK, CONCRETE STOOP, CONCRETE PATIO OR ASPHALT PAVING. SEE CIVIL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
17. REMOVE STEEL OR WOOD CANOPY AND ASSOCIATED FOOTINGS/FOUNDATIONS
18. REMOVE HOUSEKEEPING PAD.
19. REMOVE WINDOW TRIM / CASINGS
20. REMOVE OVERHEAD COILING GRILLE
21. REMOVE DRINKING FOUNTAIN
22. REMOVE METAL WALL PANEL OVER EXISTING STEEL GIRTS
23. REMOVE LADDER AND CATWALK ABOVE
24. REMOVE WOOD FENCE AND ASSOCIATED FOOTINGS
25. REMOVE FOOT RAIL
26. REMOVE FIRE ALARM CONTROL PANELS. SEE ELECTRICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
27. REMOVE ELECTRICAL / DATA PANELS. SEE ELECTRICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
28. REMOVE DUCT AND ALL ASSOCIATED SUPPORTS. SEE MECHANICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
29. REMOVE STEEL GRATING OVER WINDOW
30. REMOVE STEEL GRATING OVER CONTAINMENT PITS
31. REMOVE STEEL CAGE DOOR. POOL EQUIPMENT TO BE RELOCATED. SEE POOL DRAWINGS FOR ADDITIONAL INFORMATION.
32. REMOVE A/C CONDENSING UNIT. SEE MECHANICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
33. REMOVE SLOPED SUSPENDED CEILING SYSTEM OVER POOL / POOL DECK
34. REMOVE FRP WALL PANELS AND BASE. EXISTING WALL FRAMING TO REMAIN.
35. REMOVE PORTION OF STRUCTURAL SLAB OVER EXISTING PIT BELOW.
36. REMOVE INTERMEDIATE CONCRETE CONTAINMENT WALLS IN PIT BELOW.
37. REMOVE WOOD STAIRS AND PLATFORM AT POOL CHEMICAL TANK
38. REMOVE OVERHEAD DOOR AND TRACK
39. REMOVE VENDING MACHINES. SALVAGE FOR RELOCATION.
40. REMOVE WATER HEATER AND SHOWER HEAD. SALVAGE FOR REINSTALLATION. SEE PLUMBING.
41. REMOVE ALL STEEL LADDERS AND SAFETY CAGES USED TO ACCESS PIT(S)
42. REMOVE POOL DECK CONCRETE SLAB FROM BACK OF POOL CURB TO INSIDE FACE OF WALL U.N.O.

DEMOLITION PLAN GENERAL NOTES:

A. ALL APPLIANCES, AUDIO/VIDEO EQUIPMENT, FURNITURE, EXERCISE EQUIPMENT, BULLETIN/CORK BOARDS, SIGNAGE ETC. TO BE REMOVED BY GOVERNMENT PRIOR TO THE START OF CONSTRUCTION.
B. ALL EXISTING PRIMARY AND SECONDARY STRUCTURAL BUILDING COMPONENTS TO REMAIN U.N.O.
C. ALL INTERIOR WALL FRAMING/FINISHES ARE TO BE REMOVED ON THE EXTERIOR WALLS SCHEDULED TO BE DEMOLISHED.
D. REMOVE ALL FIRE EXTINGUISHERS
E. REMOVE ALL EXTERIOR METAL WALL PANELS, TRIM, INSULATION AND VAPOR BARRIER
F. REMOVE ALL ROOF PANELS, INSULATION AND VAPOR BARRIER
G. REMOVE ALL ROOF MOUNTED EQUIPMENT AND CURBS
H. REMOVE ALL GUTTERS, DOWNSPOUTS, AND SPLASHBLOCKS
I. REMOVE ALL LOUVERS
J. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DEMOLITION SHEETS FOR EXTENT OF REMOVAL ITEMS
K. SEE CIVIL DEMOLITION SHEETS FOR EXTENT OF SITE RELATED REMOVAL ITEMS.
L. ABANDONED AND MISC. POOL CHEMICAL PIPING TO BE REMOVED BY GOVERNMENT
M. REMOVE ABANDONED PLUMBING PIPES AND CONDUITS TO BELOW THE SLAB. PREP SLAB FOR PATCHING. SEE STRUCTURAL
N. SEE POOL DRAWINGS ("AQ" SHEETS) FOR EXTENT OF POOL, POOL LINER/GUTTER/GURB, POOL ACCESSORIES, AND POOL EQUIPMENT ROOM REMOVAL ITEMS.

KEY PLAN

DPW
FORT MCCOY, WI

MARK	DATE	MOD #
MOD REQUEST # - DESCRIPTION		

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

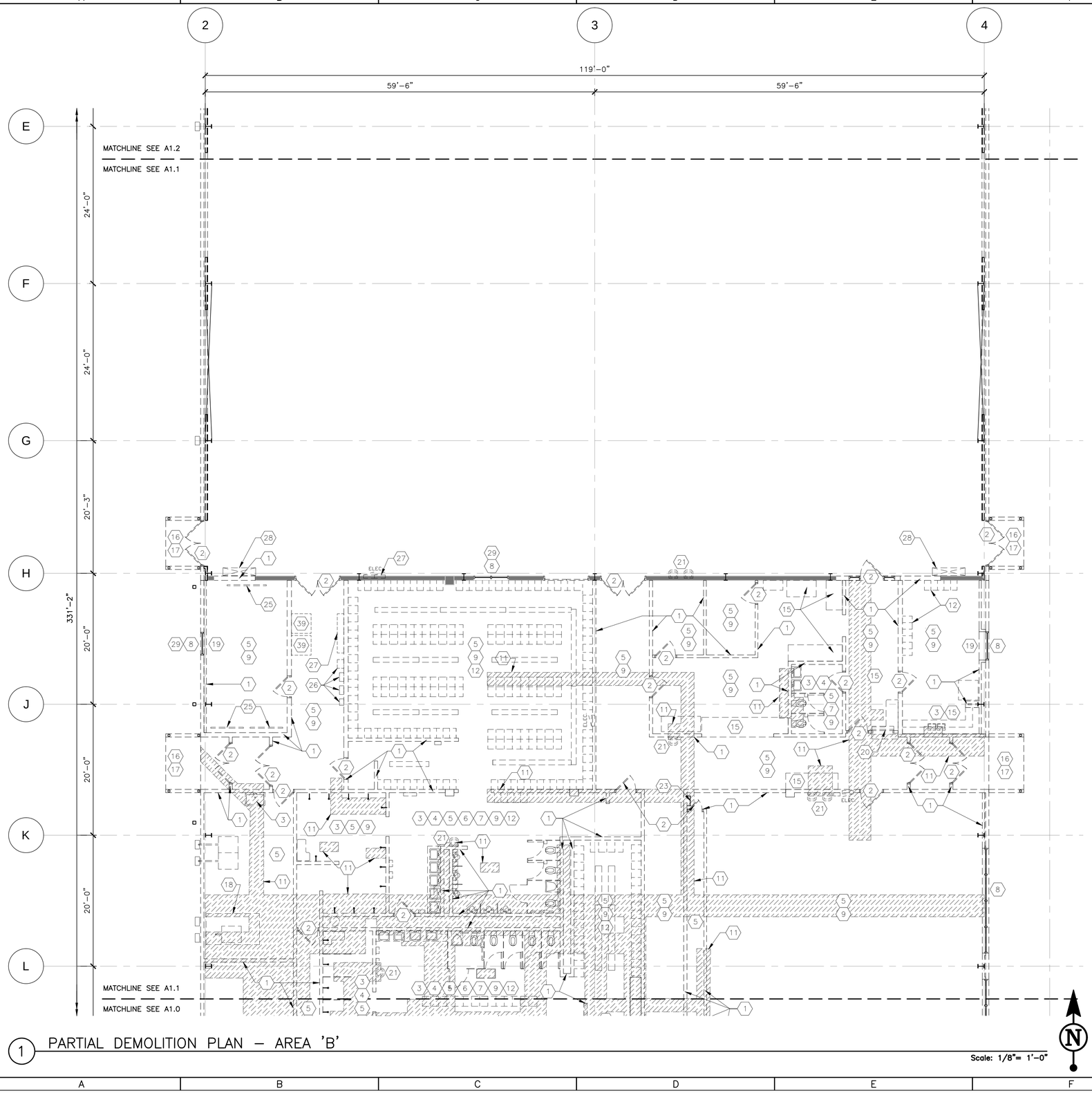
Designed by:	Ckd by:	Date:
SEH	JM	09/15/21
Dwn by:	Rev.	
BF	#	
Reviewed by:	Work Order No	
PF	1186	
Submitted by:	Project Number	
DPW	ES 12003-23	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 6TH AVE.
FORT MC COY, WI 54656

DEMOLITION PLAN - AREA 'A'

SHEET NUMBER:
A1.0

SHEET 14 of 116



1 PARTIAL DEMOLITION PLAN – AREA 'B'

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

DEMOLITION PLAN KEYNOTES:

1. REMOVE WALL OR PORTION AS SHOWN
2. REMOVE DOOR, FRAME AND HARDWARE, U.N.O.
3. REMOVE PLUMBING FIXTURES. SEE PLUMBING DEMOLITION SHEETS FOR ADDITIONAL INFORMATION
4. REMOVE TOILET/SHOWER PARTITIONS AND ALL ASSOCIATED ACCESSORIES
5. REMOVE FLOOR FINISH AND BASE
6. REMOVE VANITY COUNTER AND SUPPORT BRACKETS
7. REMOVE MIRRORS, SHELVING, DISPENSERS, DRYERS AND ALL ASSOCIATED TOILET ROOM ACCESSORIES
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11. REMOVE PORTION CONCRETE FLOOR SLAB. CONTRACTOR'S OPTION TO REMOVE MORE THAN SHOWN TO REDUCE SAWCUTTING.
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18. REMOVE HOUSEKEEPING PAD.
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23. REMOVE LADDER AND CATWALK ABOVE
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25. REMOVE FOOT RAIL
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27. REMOVE ELECTRICAL / DATA PANELS. SEE ELECTRICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
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29. REMOVE STEEL GRATING OVER WINDOW
30. REMOVE STEEL GRATING OVER CONTAINMENT PITS
31. REMOVE STEEL CAGE DOOR. POOL EQUIPMENT TO BE RELOCATED. SEE POOL DRAWINGS FOR ADDITIONAL INFORMATION.
32. REMOVE A/C CONDENSING UNIT. SEE MECHANICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
33. REMOVE SLOPED SUSPENDED CEILING SYSTEM OVER POOL / POOL DECK
34. REMOVE FRP WALL PANELS AND BASE. EXISTING WALL FRAMING TO REMAIN.
35. REMOVE PORTION OF STRUCTURAL SLAB OVER EXISTING PIT BELOW.
36. REMOVE INTERMEDIATE CONCRETE CONTAINMENT WALLS IN PIT BELOW.
37. REMOVE WOOD STAIRS AND PLATFORM AT POOL CHEMICAL TANK
38. REMOVE OVERHEAD DOOR AND TRACK
39. REMOVE VENDING MACHINES. SALVAGE FOR RELOCATION.
40. REMOVE WATER HEATER AND SHOWER HEAD. SALVAGE FOR REINSTALLATION. SEE PLUMBING.
41. REMOVE ALL STEEL LADDERS AND SAFETY CAGES USED TO ACCESS PIT(S)
42. REMOVE POOL DECK CONCRETE SLAB FROM BACK OF POOL CURB TO INSIDE FACE OF WALL U.N.O.

DEMOLITION PLAN GENERAL NOTES:

A. ALL APPLIANCES, AUDIO/VIDEO EQUIPMENT, FURNITURE, EXERCISE EQUIPMENT, BULLETIN/CORK BOARDS, SIGNAGE ETC. TO BE REMOVED BY GOVERNMENT PRIOR TO THE START OF CONSTRUCTION.
B. ALL EXISTING PRIMARY AND SECONDARY STRUCTURAL BUILDING COMPONENTS TO REMAIN U.N.O.
C. ALL INTERIOR WALL FRAMING/FINISHES ARE TO BE REMOVED ON THE EXTERIOR WALLS SCHEDULED TO BE DEMOLISHED.
D. REMOVE ALL FIRE EXTINGUISHERS
E. REMOVE ALL EXTERIOR METAL WALL PANELS, TRIM, INSULATION AND VAPOR BARRIER
F. REMOVE ALL ROOF PANELS, INSULATION AND VAPOR BARRIER
G. REMOVE ALL ROOF MOUNTED EQUIPMENT AND CURBS
H. REMOVE ALL GUTTERS, DOWNSPOUTS, AND SPLASHBLOCKS
I. REMOVE ALL LOUVERS
J. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DEMOLITION SHEETS FOR EXTENT OF REMOVAL ITEMS
K. SEE CIVIL DEMOLITION SHEETS FOR EXTENT OF SITE RELATED REMOVAL ITEMS.
L. ABANDONED AND MISC. POOL CHEMICAL PIPING TO BE REMOVED BY GOVERNMENT
M. REMOVE ABANDONED PLUMBING PIPES AND CONDUITS TO BELOW THE SLAB. PREP SLAB FOR PATCHING. SEE STRUCTURAL
N. SEE POOL DRAWINGS ("AQ" SHEETS) FOR EXTENT OF POOL, POOL LINER/GUTTER/GURB, POOL ACCESSORIES, AND POOL EQUIPMENT ROOM REMOVAL ITEMS.

KEY PLAN

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

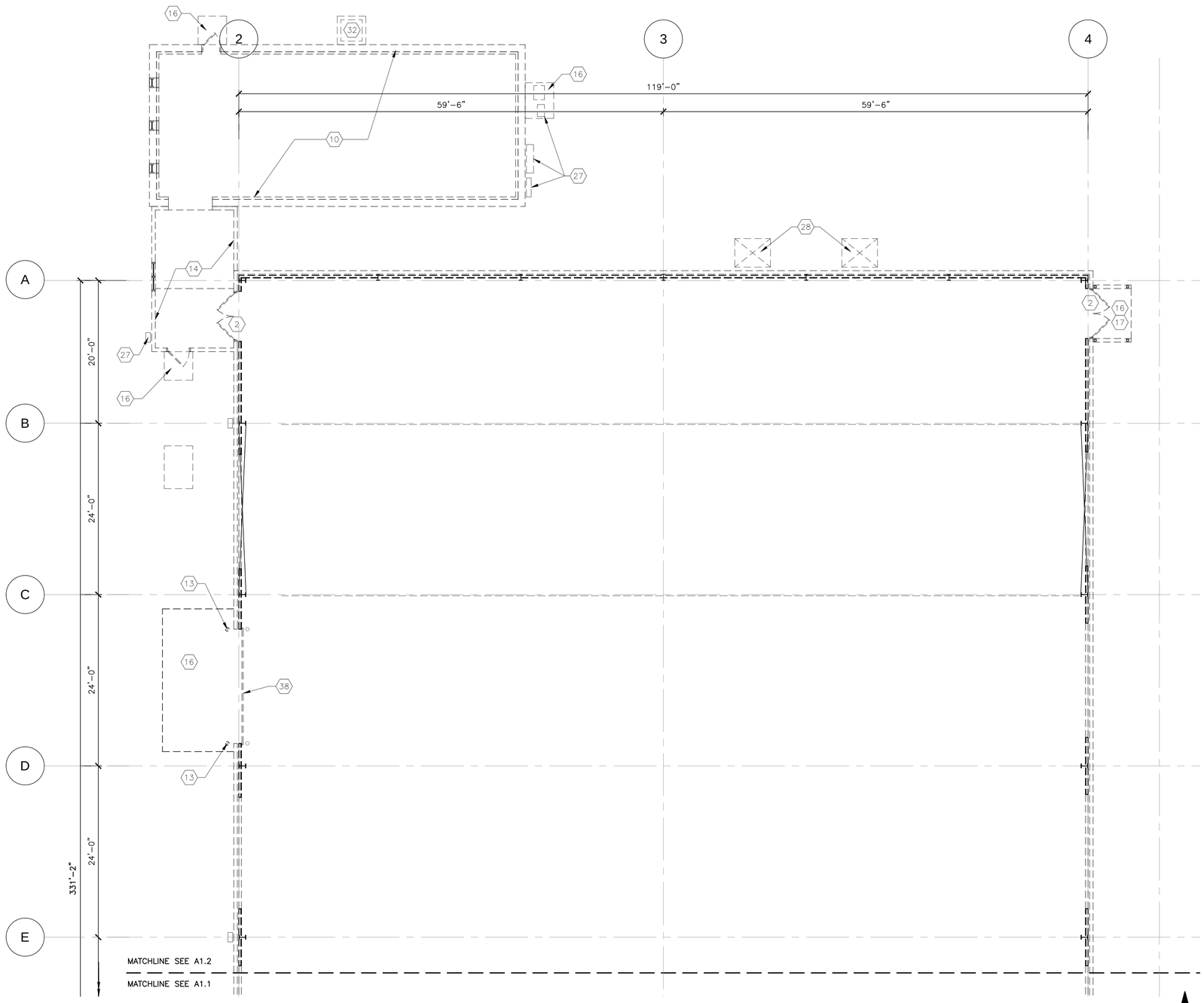
REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: SEH	Cad by: JM	Rev. #	Date: 09/15/21
Dwn by: BF	Reviewed by: PF	Work Order No 1186	Project Number ES 120083.23
Submitted by: DPW			

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

DEMOLITION PLAN - AREA 'B'

SHEET NUMBER:
A1.1
SHEET 15 of 116



1 PARTIAL DEMOLITION PLAN – AREA 'C'

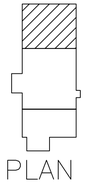
Scale: 3/32"= 1'-0"

DEMOLITION PLAN KEYNOTES:

1. REMOVE WALL OR PORTION AS SHOWN
2. REMOVE DOOR, FRAME AND HARDWARE, U.N.O.
3. REMOVE PLUMBING FIXTURES. SEE PLUMBING DEMOLITION SHEETS FOR ADDITIONAL INFORMATION
4. REMOVE TOILET/SHOWER PARTITIONS AND ALL ASSOCIATED ACCESSORIES
5. REMOVE FLOOR FINISH AND BASE
6. REMOVE VANITY COUNTER AND SUPPORT BRACKETS
7. REMOVE MIRRORS, SHELVING, DISPENSERS, DRYERS AND ALL ASSOCIATED TOILET ROOM ACCESSORIES
8. REMOVE WINDOW OR STOREFRONT
9. REMOVE CEILING AND ALL ASSOCIATED LIGHTING, VENTS, DIFFUSERS, ETC. SEE MECHANICAL AND ELECTRICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
10. REMOVE MASONRY BUILDING IN ITS ENTIRETY U.N.O
11. REMOVE PORTION CONCRETE FLOOR SLAB. CONTRACTOR'S OPTION TO REMOVE MORE THAN SHOWN TO REDUCE SAWCUTTING.
12. REMOVE LOCKERS AND BENCHES
13. REMOVE BOLLARD
14. REMOVE PREENGINEERED METAL BUILDING CORRIDOR IN ITS ENTIRETY U.N.O.
15. REMOVE CASEWORK AND/OR COUNTER AND ASSOCIATED SUPPORTS
16. REMOVE PORTION OF EXTERIOR CONCRETE APRON, CONCRETE SIDEWALK, CONCRETE STOOP, CONCRETE PATIO OR ASPHALT PAVING. SEE CIVIL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
17. REMOVE STEEL OR WOOD CANOPY AND ASSOCIATED FOOTINGS/FOUNDATIONS
18. REMOVE HOUSEKEEPING PAD.
19. REMOVE WINDOW TRIM / CASINGS
20. REMOVE OVERHEAD COILING GRILLE
21. REMOVE DRINKING FOUNTAIN
22. REMOVE METAL WALL PANEL OVER EXISTING STEEL GIRTS
23. REMOVE LADDER AND CATWALK ABOVE
24. REMOVE WOOD FENCE AND ASSOCIATED FOOTINGS
25. REMOVE FOOT RAIL
26. REMOVE FIRE ALARM CONTROL PANELS. SEE ELECTRICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
27. REMOVE ELECTRICAL / DATA PANELS. SEE ELECTRICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
28. REMOVE DUCT AND ALL ASSOCIATED SUPPORTS. SEE MECHANICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
29. REMOVE STEEL GRATING OVER WINDOW
30. REMOVE STEEL GRATING OVER CONTAINMENT PITS
31. REMOVE STEEL CAGE DOOR. POOL EQUIPMENT TO BE RELOCATED. SEE POOL DRAWINGS FOR ADDITIONAL INFORMATION.
32. REMOVE A/C CONDENSING UNIT. SEE MECHANICAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
33. REMOVE SLOPED SUSPENDED CEILING SYSTEM OVER POOL / POOL DECK
34. REMOVE FRP WALL PANELS AND BASE. EXISTING WALL FRAMING TO REMAIN.
35. REMOVE PORTION OF STRUCTURAL SLAB OVER EXISTING PIT BELOW.
36. REMOVE INTERMEDIATE CONCRETE CONTAINMENT WALLS IN PIT BELOW.
37. REMOVE WOOD STAIRS AND PLATFORM AT POOL CHEMICAL TANK
38. REMOVE OVERHEAD DOOR AND TRACK
39. REMOVE VENDING MACHINES. SALVAGE FOR RELOCATION.
40. REMOVE WATER HEATER AND SHOWER HEAD. SALVAGE FOR REINSTALLATION. SEE PLUMBING.
41. REMOVE ALL STEEL LADDERS AND SAFETY CAGES USED TO ACCESS PIT(S)
42. REMOVE POOL DECK CONCRETE SLAB FROM BACK OF POOL CURB TO INSIDE FACE OF WALL U.N.O.

DEMOLITION PLAN GENERAL NOTES:

A. ALL APPLIANCES, AUDIO/VIDEO EQUIPMENT, FURNITURE, EXERCISE EQUIPMENT, BULLETIN/CORK BOARDS, SIGNAGE ETC. TO BE REMOVED BY GOVERNMENT PRIOR TO THE START OF CONSTRUCTION.
B. ALL EXISTING PRIMARY AND SECONDARY STRUCTURAL BUILDING COMPONENTS TO REMAIN U.N.O.
C. ALL INTERIOR WALL FRAMING/FINISHES ARE TO BE REMOVED ON THE EXTERIOR WALLS SCHEDULED TO BE DEMOLISHED.
D. REMOVE ALL FIRE EXTINGUISHERS
E. REMOVE ALL EXTERIOR METAL WALL PANELS, TRIM, INSULATION AND VAPOR BARRIER
F. REMOVE ALL ROOF PANELS, INSULATION AND VAPOR BARRIER
G. REMOVE ALL ROOF MOUNTED EQUIPMENT AND CURBS
H. REMOVE ALL GUTTERS, DOWNSPOUTS, AND SPLASHBLOCKS
I. REMOVE ALL LOUVERS
J. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DEMOLITION SHEETS FOR EXTENT OF REMOVAL ITEMS
K. SEE CIVIL DEMOLITION SHEETS FOR EXTENT OF SITE RELATED REMOVAL ITEMS.
L. ABANDONED AND MISC. POOL CHEMICAL PIPING TO BE REMOVED BY GOVERNMENT
M. REMOVE ABANDONED PLUMBING PIPES AND CONDUITS TO BELOW THE SLAB. PREP SLAB FOR PATCHING. SEE STRUCTURAL
N. SEE POOL DRAWINGS ("AQ" SHEETS) FOR EXTENT OF POOL, POOL LINER/GUTTER/GURB, POOL ACCESSORIES, AND POOL EQUIPMENT ROOM REMOVAL ITEMS.



KEY PLAN

DPW
FORT MCCOY, WI

MARK	DATE	MOD #

MOD REQUEST # - DESCRIPTION

SEH

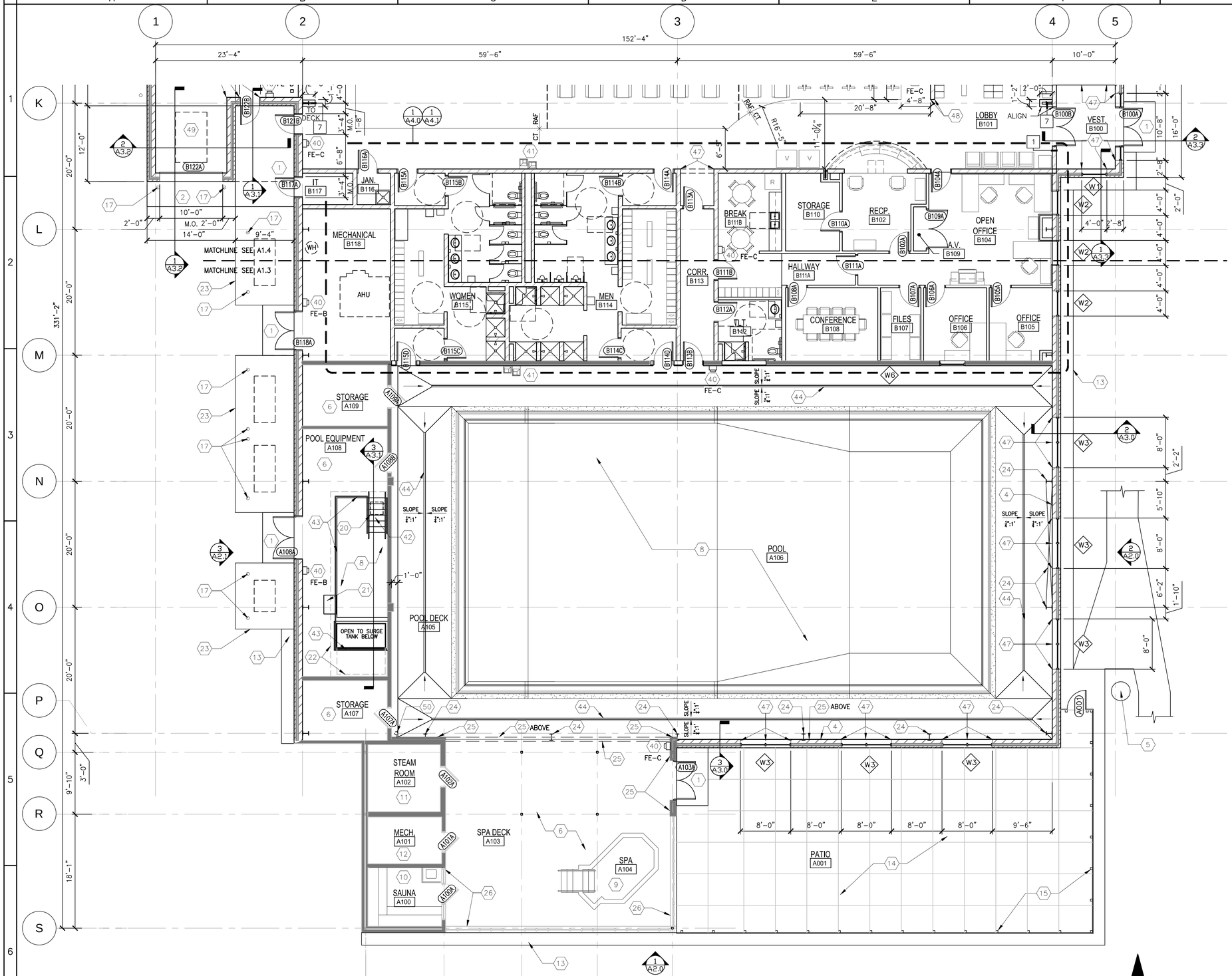
REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: SEH
Drawn by: BF
Cad by: JM
Reviewed by: PF
Submitted by: DPW
Date: 09/15/21
Rev. #
Work Order No 1186
Project Number ES 120G3-2J

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

DEMOLITION PLAN - AREA 'C'

SHEET NUMBER:
A1.2
SHEET 16 of 116



1 FLOOR PLAN – AREA 'A'

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

FLOOR PLAN KEYNOTES:

1. CONCRETE STOOP – SEE STRUCTURAL
2. CONCRETE APRON – SEE STRUCTURAL AND CIVIL
3. PAINTED CMU FROM FINISHED FLOOR TO 109'–0". PAINTED HIGH IMPACT GYP. BD. FROM 109'–0" TO DECK ABOVE.
4. PAINTED CMU FROM FINISHED FLOOR TO 113'–4". PVC PLASTIC PANEL OVER W.R. GYP BD. FROM 113'–4" TO ROOF ABOVE.
5. LIFT STATION WITH INSULATED LOCKABLE COVER. SEE CIVIL FOR ADDITIONAL INFORMATION.
6. EXISTING FLOOR FINISHES TO REMAIN.
7. EXISTING EQUIPMENT HUNG FROM STRUCTURE (BASKETBALL HOOPS, CURTAINS, NETTING, ETC.) TO REMAIN
8. SEE POOL DRAWINGS FOR POOL/GUTTER/CURB, POOL ACCESSORIES (LADDER, ADA LIFT, LIFEGUARD STANDS, STARTING BLOCKS), PIPING, CHEMICAL EQUIPMENT, ETC.
9. ALL EXISTING SPA FINISHES TO REMAIN. NO WORK IN THIS AREA U.N.O.
10. ALL EXISTING SAUNA FINISHES TO REMAIN. NO WORK IN THIS AREA U.N.O.
11. ALL EXISTING STEAM ROOM FINISHES TO REMAIN. NO WORK IN THIS AREA U.N.O.
12. ALL EXISTING MECHANICAL ROOM FINISHES TO REMAIN. NO WORK IN THIS AREA U.N.O.
13. CONCRETE MOW STRIP – SEE CIVIL
14. CONCRETE PATIO – SEE CIVIL
15. PRIVACY FENCE WITH GATE – SEE CIVIL. PROVIDE CONDUIT TO GATE FOR ALARM SYSTEM – SEE ELECTRICAL
16. EXISTING BOLLARD TO REMAIN
17. CONCRETE FILLED STEEL BOLLARD, PAINT – SEE CIVIL
18. EXISTING ROLL UP DIVIDER CURTAIN TO REMAIN
19. ROLL UP DIVIDER CURTAIN – SEE REFLECTED CEILING PLAN FOR SPACING
20. CONCRETE SUMP PIT. DRAIN PIT TO SANITARY SEWER. SEE STRUCTURAL AND PLUMBING
21. EXISTING CONCRETE EQUIPMENT PAD TO REMAIN
22. LINE OF PIT WALLS BELOW
23. CONCRETE PAD FOR MECHANICAL EQUIPMENT. SEE STRUCTURAL AND MECHANICAL
24. PAINT EXISTING EXPOSED PRIMARY AND SECONDARY STEEL FRAMING.
25. INSTALL PVC PLASTIC PANEL OVER EXISTING SUBSTRATE/ FRAMING FROM FINISHED FLOOR TO ROOF DECK ABOVE. ALIGN WITH ADJACENT FINISHES.
26. EXISTING BASE TO REMAIN.
27. PAINT EXPOSED PERIMETER OF CONCRETE SLAB.
28. EXISTING FLOOR TILE TO REMAIN.
29. WASHING MACHINE N.I.C
30. DRYER N.I.C.
31. MOP SINK – SEE PLUMBING
32. EYEWASH / SAFETY SHOWER – SEE PLUMBING
33. RELOCATED ICE MACHINE BY GOVERNMENT N.I.C.
34. FLOOR DETERGENT DISPENSING STATION BY GOVERNMENT N.I.C.
35. EXISTING ELECTRIC FLOOR SCRUBBER. PROVIDE POWER FOR CHARGING – SEE ELECTRICAL
36. LOCKERS – TYPE B
37. BENCH SECURED INTO FLOOR
38. EXERCISE EQUIPMENT N.I.C.
39. SHELVING N.I.C.
40. FIRE EXTINGUISHER. VERIFY FINAL LOCATION WITH LOCAL JURISDICTION.
    FE–B = BRACKET
    FE–C = CABINET
41. HI/LOW DRINKING FOUNTAIN – SEE PLUMBING
42. GALVANIZED STEEL STAIR. SEE POOL DRAWINGS FOR ADDITIONAL INFORMATION.
43. GALVANIZED STEEL GUARD RAIL. SEE POOL DRAWINGS FOR ADDITIONAL INFORMATION.
44. 3" TRENCH DRAIN WITH REMOVABLE PLASTIC DRAIN COVER. DRAIN TO SANITARY SEWER – SEE PLUMBING.
45. WALL MIRROR – SEE INTERIOR ELEVATIONS.
46. TV PROVIDED AND INSTALLED BY GOVERNMENT ABOVE MIRRORS. SEE ELECTRICAL FOR POWER AND CABLE.
47. PROVIDE BULLNOSE CMU CORNERS AT OUTSIDE CORNERS, JAMBS AND SILLS.
48. TOOTH IN CMU AT INFILL.
49. SCISSOR LIFT CENTERED ON DOOR.
50. REINSTALL WATER HEATER AND SHOWER HEAD – SEE PLUMBING.
51. PAINT EXISTING CONCRETE FLOOR AT PERIMETER OF RUBBER GYM FLOOR.

FLOOR PLAN GENERAL NOTES:

A. CONTRACTOR TO PROTECT REMAINING FINISHES, EQUIPMENT AND ADJACENT WORK FROM WEATHER AND OTHER DAMAGE CAUSED BY CUTTING, MOVING AND REMOVAL AND PATCHING OPERATIONS. PROTECT SURFACES WHICH WILL REMAIN APART OF THE FINISHED WORK.

B. ALL WALLS ARE TO BE TYPE 1 TO 6" ABOVE CEILING U.N.O.

C. PATCH SLAB AT ABANDONED PIPING, CONDUITS AND REMOVAL AREAS. SEE STRUCTURAL FOR DETAILS.

KEY PLAN

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

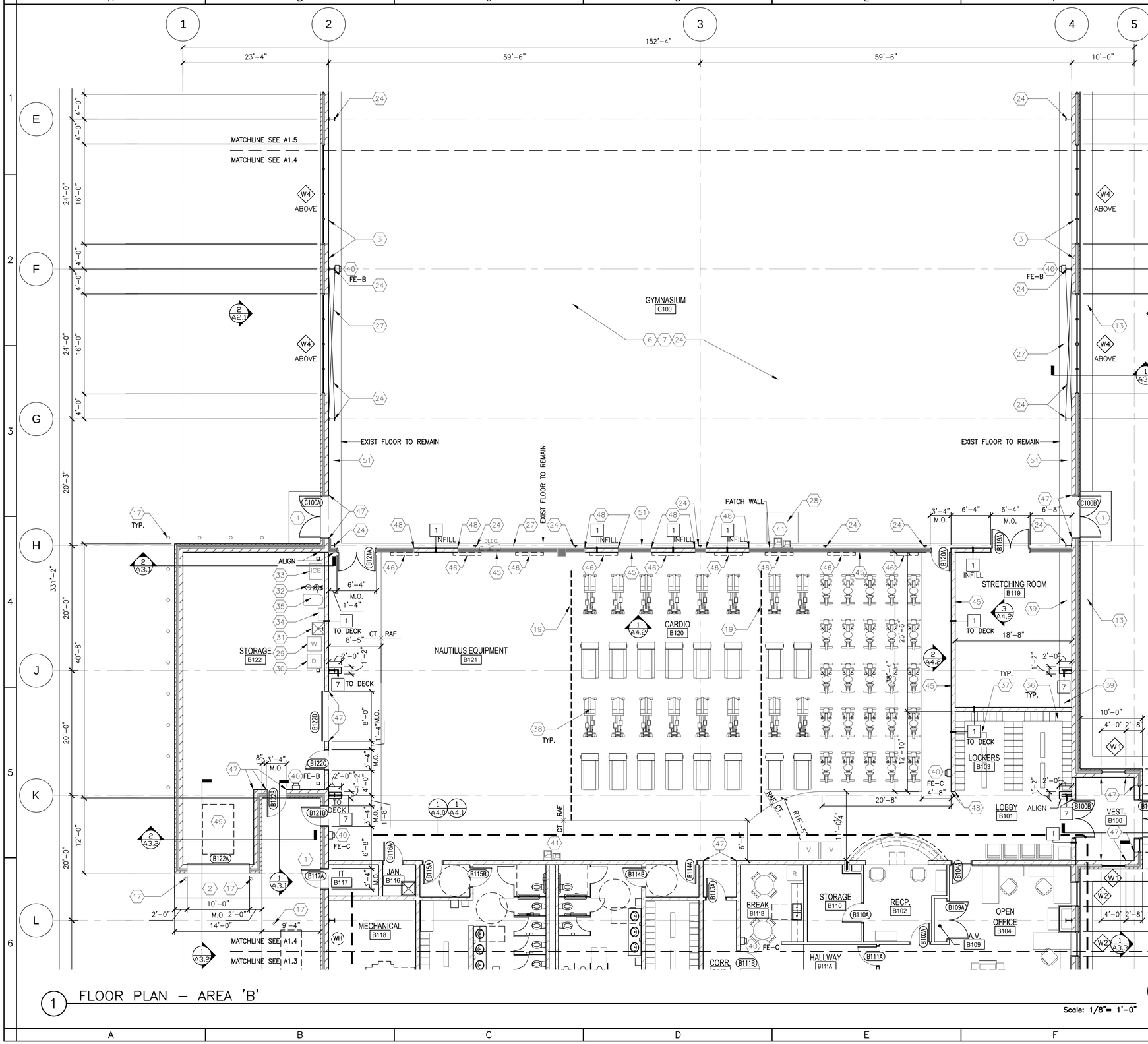
Designed by: SEH		Date: 09/15/21	
Drwn by: BF	Ckd by: JM	Rev. #	
Reviewed by: PF		Work Order No 1186	Project Number ES 120003-23
Submitted by: DPW			

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

FLOOR PLAN - AREA 'A'

SHEET NUMBER:
A1.3
SHEET 17 of 117

Plot date:



1 FLOOR PLAN – AREA 'B'

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

FLOOR PLAN KEYNOTES:

1. CONCRETE STOOP – SEE STRUCTURAL
2. CONCRETE APRON – SEE STRUCTURAL AND CIVIL
3. PAINTED CMU FROM FINISHED FLOOR TO 109'–0". PAINTED HIGH IMPACT GYP. BD. FROM 109'–0" TO DECK ABOVE.
4. PAINTED CMU FROM FINISHED FLOOR TO 113'–4". PVC PLASTIC PANEL OVER W.R. GYP BD. FROM 113'–4" TO ROOF ABOVE.
5. LIFT STATION WITH INSULATED LOCKABLE COVER. SEE CIVIL FOR ADDITIONAL INFORMATION.
6. EXISTING FLOOR FINISHES TO REMAIN.
7. EXISTING EQUIPMENT HUNG FROM STRUCTURE (BASKETBALL HOOPS, CURTAINS, NETTING, ETC.) TO REMAIN
8. SEE POOL DRAWINGS FOR POOL/GUTTER/CURB, POOL ACCESSORIES (LADDER, ADA LIFT, LIFEGUARD STANDS, STARTING BLOCKS), PIPING, CHEMICAL EQUIPMENT, ETC.
9. ALL EXISTING SPA FINISHES TO REMAIN. NO WORK IN THIS AREA U.N.O.
10. ALL EXISTING SAUNA FINISHES TO REMAIN. NO WORK IN THIS AREA U.N.O.
11. ALL EXISTING STEAM ROOM FINISHES TO REMAIN. NO WORK IN THIS AREA U.N.O.
12. ALL EXISTING MECHANICAL ROOM FINISHES TO REMAIN. NO WORK IN THIS AREA U.N.O.
13. CONCRETE MOW STRIP – SEE CIVIL
14. CONCRETE PATIO – SEE CIVIL
15. PRIVACY FENCE WITH GATE – SEE CIVIL. PROVIDE CONDUIT TO GATE FOR ALARM SYSTEM – SEE ELECTRICAL
16. EXISTING BOLLARD TO REMAIN
17. CONCRETE FILLED STEEL BOLLARD, PAINT – SEE CIVIL
18. EXISTING ROLL UP DIVIDER CURTAIN TO REMAIN
19. ROLL UP DIVIDER CURTAIN – SEE REFLECTED CEILING PLAN FOR SPACING
20. CONCRETE SUMP PIT. DRAIN PIT TO SANITARY SEWER. SEE STRUCTURAL AND PLUMBING
21. EXISTING CONCRETE EQUIPMENT PAD TO REMAIN
22. LINE OF PIT WALLS BELOW
23. CONCRETE PAD FOR MECHANICAL EQUIPMENT. SEE STRUCTURAL AND MECHANICAL
24. PAINT EXISTING EXPOSED PRIMARY AND SECONDARY STEEL FRAMING.
25. INSTALL PVC PLASTIC PANEL OVER EXISTING SUBSTRATE/ FRAMING FROM FINISHED FLOOR TO ROOF DECK ABOVE. ALIGN WITH ADJACENT FINISHES.
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30. DRYER N.I.C.
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32. EYEWASH / SAFETY SHOWER – SEE PLUMBING
33. RELOCATED ICE MACHINE BY GOVERNMENT N.I.C.
34. FLOOR DETERGENT DISPENSING STATION BY GOVERNMENT N.I.C.
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36. LOCKERS – TYPE B
37. BENCH SECURED INTO FLOOR
38. EXERCISE EQUIPMENT N.I.C.
39. SHELVING N.I.C.
40. FIRE EXTINGUISHER. VERIFY FINAL LOCATION WITH LOCAL JURISDICTION.
    FE–B = BRACKET
    FE–C = CABINET
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42. GALVANIZED STEEL STAIR. SEE POOL DRAWINGS FOR ADDITIONAL INFORMATION.
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46. TV PROVIDED AND INSTALLED BY GOVERNMENT ABOVE MIRRORS. SEE ELECTRICAL FOR POWER AND CABLE.
47. PROVIDE BULLNOSE CMU CORNERS AT OUTSIDE CORNERS, JAMBS AND SILLS.
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50. REINSTALL WATER HEATER AND SHOWER HEAD – SEE PLUMBING.
51. PAINT EXISTING CONCRETE FLOOR AT PERIMETER OF RUBBER GYM FLOOR.

FLOOR PLAN GENERAL NOTES:

A. CONTRACTOR TO PROTECT REMAINING FINISHES, EQUIPMENT AND ADJACENT WORK FROM WEATHER AND OTHER DAMAGE CAUSED BY CUTTING, MOVING AND REMOVAL AND PATCHING OPERATIONS. PROTECT SURFACES WHICH WILL REMAIN APART OF THE FINISHED WORK.

B. ALL WALLS ARE TO BE TYPE 1 TO 6" ABOVE CEILING U.N.O.

C. PATCH SLAB AT ABANDONED PIPING, CONDUITS AND REMOVAL AREAS. SEE STRUCTURAL FOR DETAILS.

KEY PLAN

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

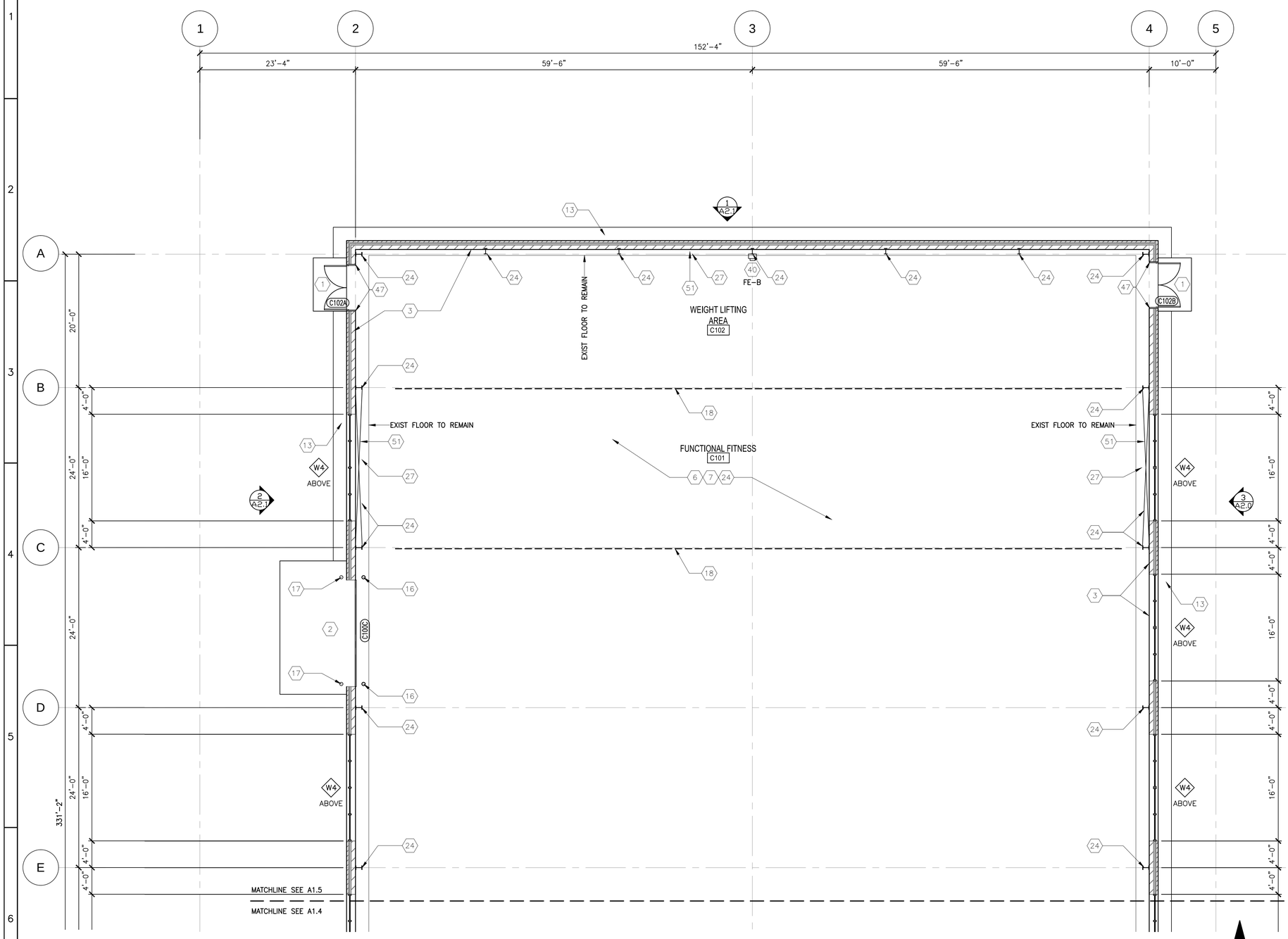
Designed by:	Date:	
SEH	09/15/21	
Drwn by:	Cad by:	Rev. #
BF	JM	
Reviewed by:	Work Order No	
PF	1186	
Submitted by:	Project Number	
DPW	ES 12003-23	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

FLOOR PLAN - AREA 'B'

SHEET NUMBER:
A1.4
SHEET 18 of 116

Plot date:



1 FLOOR PLAN – AREA 'C'

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

FLOOR PLAN KEYNOTES:

1. CONCRETE STOOP – SEE STRUCTURAL
2. CONCRETE APRON – SEE STRUCTURAL AND CIVIL
3. PAINTED CMU FROM FINISHED FLOOR TO 109'–0". PAINTED HIGH IMPACT GYP. BD. FROM 109'–0" TO DECK ABOVE.
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14. CONCRETE PATIO – SEE CIVIL
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17. CONCRETE FILLED STEEL BOLLARD, PAINT – SEE CIVIL
18. EXISTING ROLL UP DIVIDER CURTAIN TO REMAIN
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20. CONCRETE SUMP PIT WITH FRP GRATING COVER. DRAIN PIT TO SANITARY SEWER. SEE STRUCTURAL AND PLUMBING
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22. LINE OF PIT WALLS BELOW
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32. EYEWASH / SAFETY SHOWER – SEE PLUMBING
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45. WALL MIRROR – SEE INTERIOR ELEVATIONS.
46. TV PROVIDED AND INSTALLED BY GOVERNMENT ABOVE MIRRORS. SEE ELECTRICAL FOR POWER AND CABLE.
47. PROVIDE BULLNOSE CMU CORNERS AT OUTSIDE CORNERS, JAMBS AND SILLS.
48. TOOTH IN CMU AT INFILL.
49. SCISSOR LIFT CENTERED ON DOOR.
50. REINSTALL WATER HEATER AND SHOWER HEAD – SEE PLUMBING.
51. PAINT EXISTING CONCRETE FLOOR AT PERIMETER OF RUBBER GYM FLOOR.

FLOOR PLAN GENERAL NOTES:

A. CONTRACTOR TO PROTECT REMAINING FINISHES, EQUIPMENT AND ADJACENT WORK FROM WEATHER AND OTHER DAMAGE CAUSED BY CUTTING, MOVING AND REMOVAL AND PATCHING OPERATIONS. PROTECT SURFACES WHICH WILL REMAIN APART OF THE FINISHED WORK.

B. ALL WALLS ARE TO BE TYPE 1 TO 6" ABOVE CEILING U.N.O.

C. PATCH SLAB AT ABANDONED PIPING, CONDUITS AND REMOVAL AREAS. SEE STRUCTURAL FOR DETAILS.

KEY PLAN

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

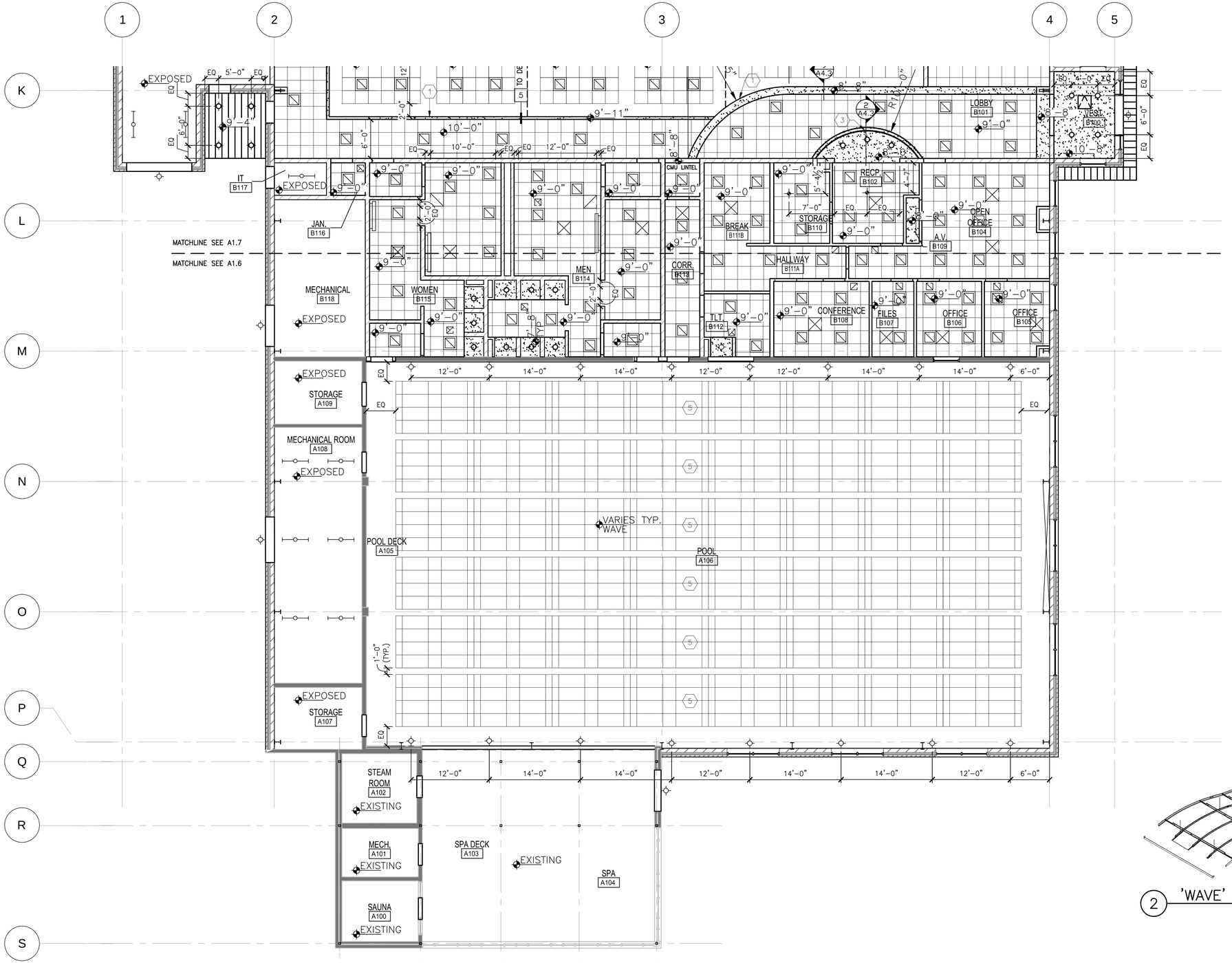
Designed by: SEH
Drawn by: BF
Cad by: JM
Reviewed by: PF
Submitted by: DPW
Date: 09/15/21
Rev. #
Work Order No 1186
Project Number ES 120003.23

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

FLOOR PLAN - AREA 'C'

SHEET NUMBER:
A1.5

SHEET 19 of 116



1 REFLECTED CEILING PLAN – AREA 'A'

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

REFLECTED CEILING PLAN GENERAL NOTES:

A. ALL SUSPENDED ACOUSTIC CEILING TO BE CENTERED IN ROOM UNLESS NOTED OTHERWISE

B. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR OTHER CEILING MOUNTED EQUIPMENT. (SPRINKLERS, SPEAKERS, ETC.) CONTRACTOR SHALL VERIFY LOCATIONS.

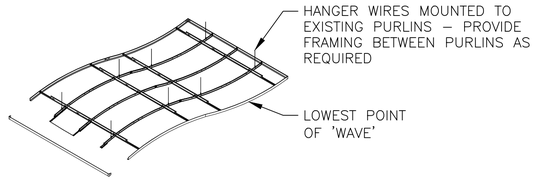
C. CEILING MOUNTED EQUIPMENT IN GYMNASIUM (IE. BASKETBALL HOOPS, NETTING, CURTAINS, ETC.) TO REMAIN.

LEGEND:

- GYPSUM BOARD
- 2x2 SUSPENDED CEILING PANEL SYSTEM
- PRE-FINISHED METAL VENTED SOFFIT PANEL
- EXPOSED STRUCTURE

REFLECTED CEILING PLAN KEYNOTES:

1. GYP. BD. HEADER WALL FROM ELEVATION INDICATED TO DECK.
2. ROLL UP DIVIDER CURTAIN.
3. SIDE FOLDING SECURITY GRILL.
4. EXISTING ROLL UP DIVIDER CURTAIN.
5. SUSPENDED 'WAVE' CEILING PANEL SYSTEM. ELEVATION VARIES – LOW POINT OF 'WAVE' 11'-0" MINIMUM FROM HIGH POINT OF POOL EDGE.



2 'WAVE' CEILING CLOUD (8'x12')

N.T.S.

KEY PLAN

DPW
FORT MCCOY, WI

MARK	DATE	MOD #

MOD REQUEST # - DESCRIPTION

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REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: SEH	Date: 09/15/21
Dwn by: BF	Cad by: JM
Reviewed by: PF	Rev. #
Submitted by: DPW	Work Order No 1186
	Project Number ES 12003-2J

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FORT MC COY, WI 54656

REFLECTED CEILING PLAN - AREA 'A'

SHEET NUMBER:
A1.6
SHEET 20 of 116

Plot date:

REFLECTED CEILING PLAN GENERAL NOTES:

A. ALL SUSPENDED ACOUSTIC CEILING TO BE CENTERED IN ROOM UNLESS NOTED OTHERWISE

B. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR OTHER CEILING MOUNTED EQUIPMENT. (SPRINKLERS, SPEAKERS, ETC.) CONTRACTOR SHALL VERIFY LOCATIONS.

C. CEILING MOUNTED EQUIPMENT IN GYMNASIUM (IE. BASKETBALL HOOPS, NETTING, CURTAINS, ETC.) TO REMAIN.

LEGEND:

- GYPSUM BOARD
- 2x2 SUSPENDED CEILING PANEL SYSTEM
- PRE-FINISHED METAL VENTED SOFFIT PANEL
- EXPOSED STRUCTURE

REFLECTED CEILING PLAN KEYNOTES:

1. GYP. BD. HEADER WALL FROM ELEVATION INDICATED TO DECK.
2. ROLL UP DIVIDER CURTAIN.
3. SIDE FOLDING SECURITY GRILL.
4. EXISTING ROLL UP DIVIDER CURTAIN.
5. SUSPENDED 'WAVE' CEILING PANEL SYSTEM. ELEVATION VARIES – LOW POINT OF 'WAVE' 11'-0" MINIMUM FROM HIGH POINT OF POOL EDGE.

EXPOSED STRUCTURE (TYP.)

STORAGE B122 — EXPOSED

EXPOSED — EQ 5'-0" EQ — 9'-4"

IT B117 — EXPOSED

MATCHLINE SEE A1.7

MATCHLINE SEE A1.6

MECHANICAL B118 — EXPOSED

EXPOSED — STORAGE A109

MECHANICAL ROOM A108 — EXPOSED

NAUTILUS EQUIPMENT B121

CARDIO B120

STRETCHING ROOM B119

LOCKERS B103

LOBBY B101

VEST. B100

JAN. B116

WOMEN B115

MEN B114

CORR. B113

BREAK B111B

HALLWAY B111A

STORAGE B110

A.V. B109

RECP. B102

OPEN OFFICE B104

TLT. B112

CONFERENCE B108

FILES B107

OFFICE B106

OFFICE B105

TO DECK

CMU LINTEL

R10'-5"

R10'-0"

1 REFLECTED CEILING PLAN – AREA 'B'

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

KEY PLAN

DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: SEH	Date: 09/15/21
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Submitted by: DPW	Project Number ES 12003-23

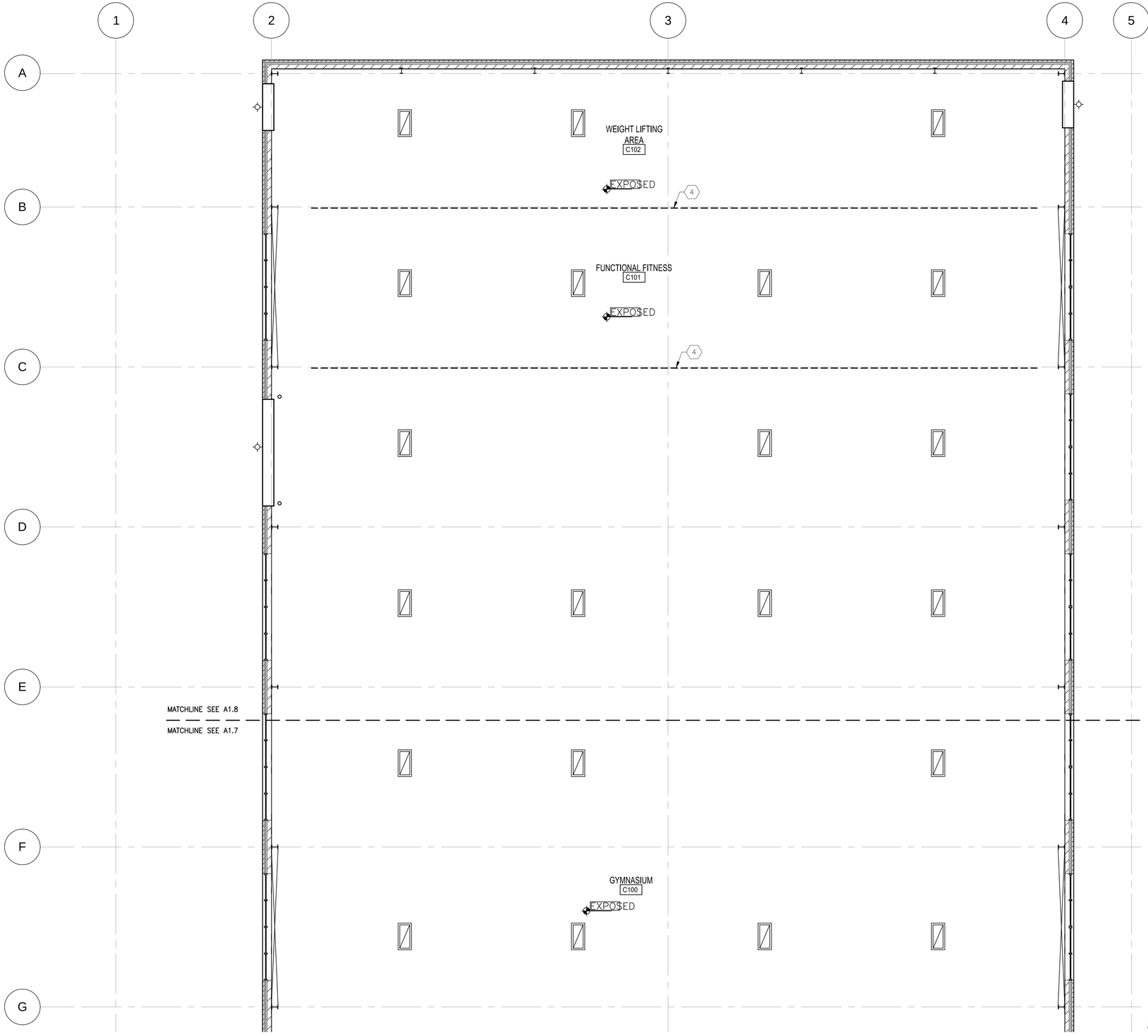
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REFLECTED CEILING PLAN - AREA 'B'

SHEET NUMBER: A1.7

SHEET 21of 116

Plot date:



1 REFLECTED CEILING PLAN – AREA 'B'

Scale: 1/8"= 1'–0"

REFLECTED CEILING PLAN GENERAL NOTES:

A. ALL SUSPENDED ACOUSTIC CEILING TO BE CENTERED IN ROOM UNLESS NOTED OTHERWISE

B. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR OTHER CEILING MOUNTED EQUIPMENT. (SPRINKLERS, SPEAKERS, ETC.) CONTRACTOR SHALL VERIFY LOCATIONS.

C. CEILING MOUNTED EQUIPMENT IN GYMNASIUM (IE. BASKETBALL HOOPS, NETTING, CURTAINS, ETC.) TO REMAIN.

LEGEND:

- GYPSUM BOARD
- 2x2 SUSPENDED CEILING PANEL SYSTEM
- PRE-FINISHED METAL VENTED SOFFIT PANEL
- EXPOSED STRUCTURE

REFLECTED CEILING PLAN KEYNOTES:

1. GYP. BD. HEADER WALL FROM ELEVATION INDICATED TO DECK.
2. ROLL UP DIVIDER CURTAIN.
3. SIDE FOLDING SECURITY GRILL.
4. EXISTING ROLL UP DIVIDER CURTAIN.
5. SUSPENDED "WAVE" CEILING PANEL SYSTEM. ELEVATION VARIES – LOW POINT OF "WAVE" 11'–0" MINIMUM FROM HIGH POINT OF POOL EDGE.

KEY PLAN

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

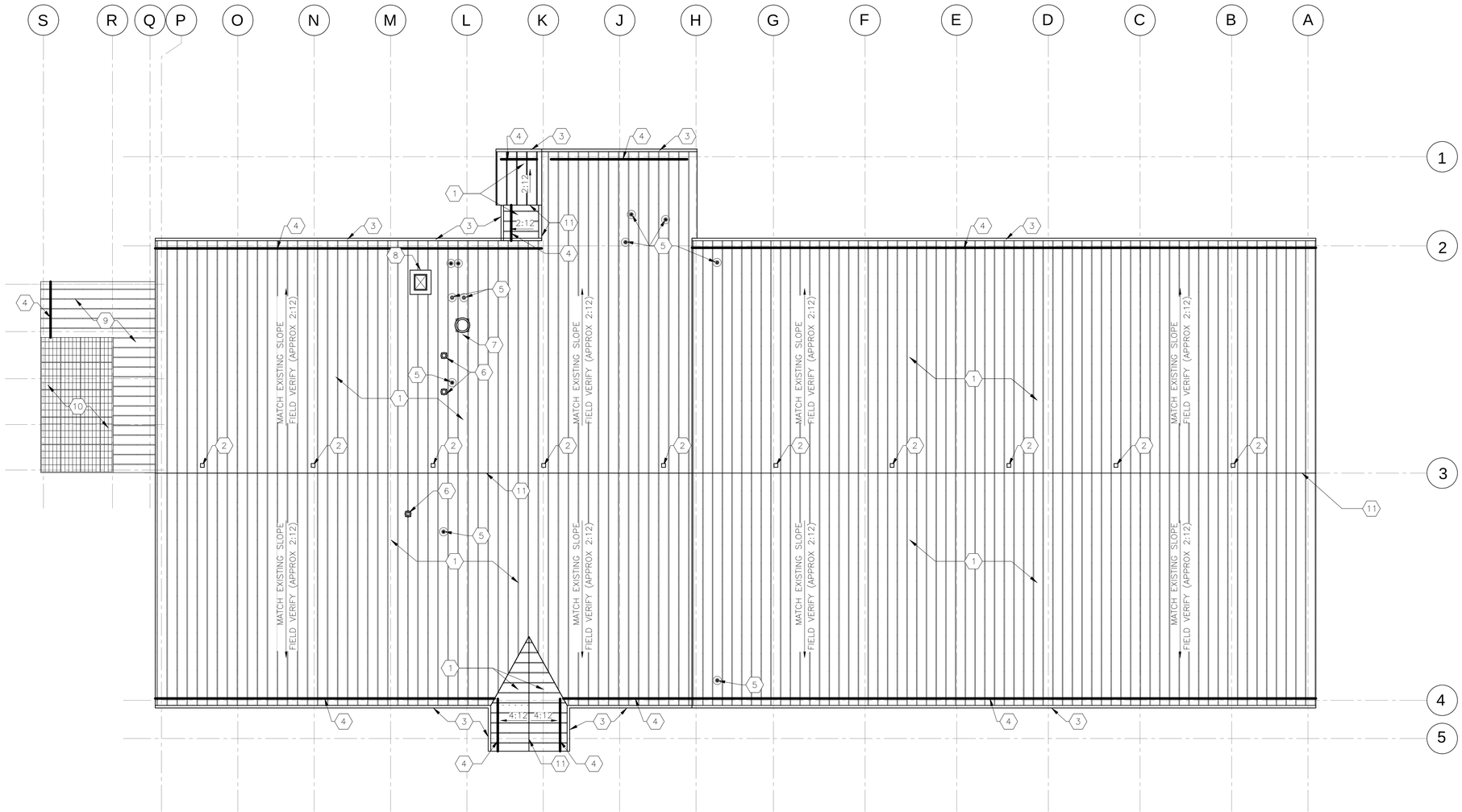
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FORT MC COY, WI 54656

Designed by: SEH	Date: 09/15/21
Dwn by: BF	Cad by: JM
Reviewed by: PF	Rev. #
Submitted by: DPW	Work Order No 1186
	Project Number ES 12003-2J

REFLECTED CEILING PLAN - AREA 'C'

SHEET NUMBER:
A1.8
SHEET 22of 116

Plot date:



ROOF PLAN KEYNOTES:

1. PRE-FINISHED STANDING SEAM ROOF
2. PERMANENT FALL PROTECTION ROOF ANCHOR
3. PRE-FINISHED 4" WIDE x 6" DEEP METAL GUTTER AT ROOF EAVES - SEE ELEVATIONS FOR DOWNSPOUT LOCATIONS
4. PROVIDE ENGINEERED SNOW GUARD SYSTEM ENTIRE LENGTH OF EAVE
5. PIPE PENETRATION THROUGH ROOF - SEE MECHANICAL & PLUMBING
6. EXHAUST FAN CURB - SEE MECHANICAL
7. RELIEF FAN CURB - SEE MECHANICAL
8. INTAKE CURB - SEE MECHANICAL
9. EXISTING STANDING SEAM ROOF TO REMAIN
10. EXISTING TRANSLUCENT SKYLIGHT ROOF ASSEMBLY TO REMAIN
11. ROOF PEAK

1 ROOF PLAN

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

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MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

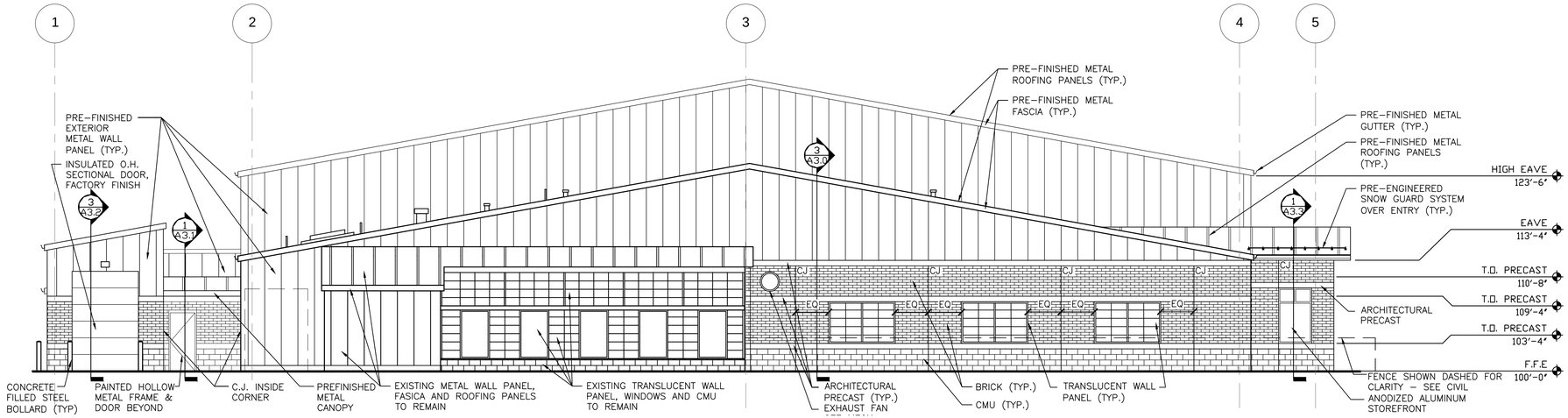
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Designed by: SEH	Cad by: JM	Date: 09/15/21	
Dwn by: CS		Rev. #	
Reviewed by: PF		Work Order No 1186	
Submitted by: DPW		Project Number ES 12003-23	

ROOF PLAN

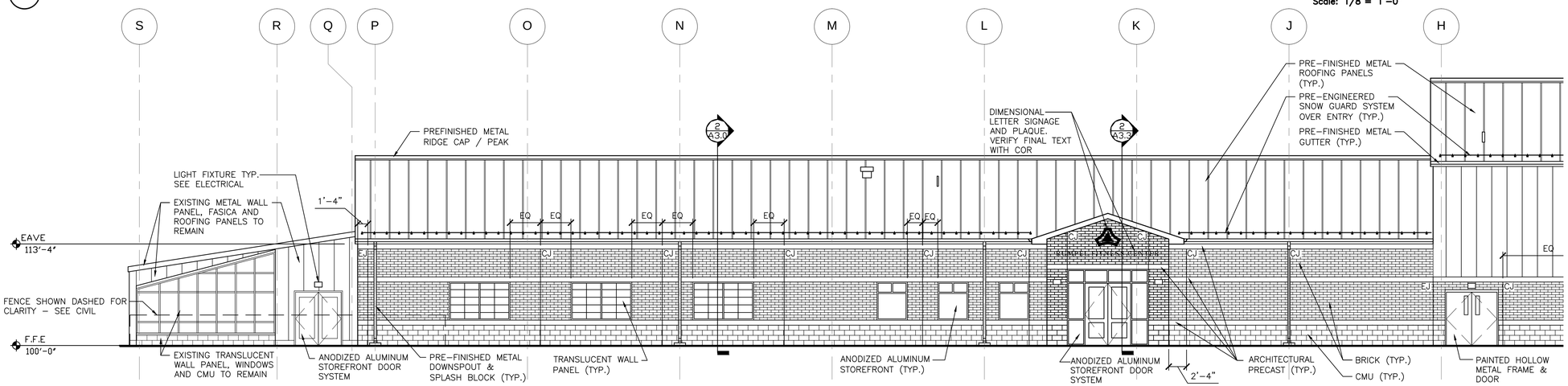
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A1.9
SHEET 23 of 116

Plot date:



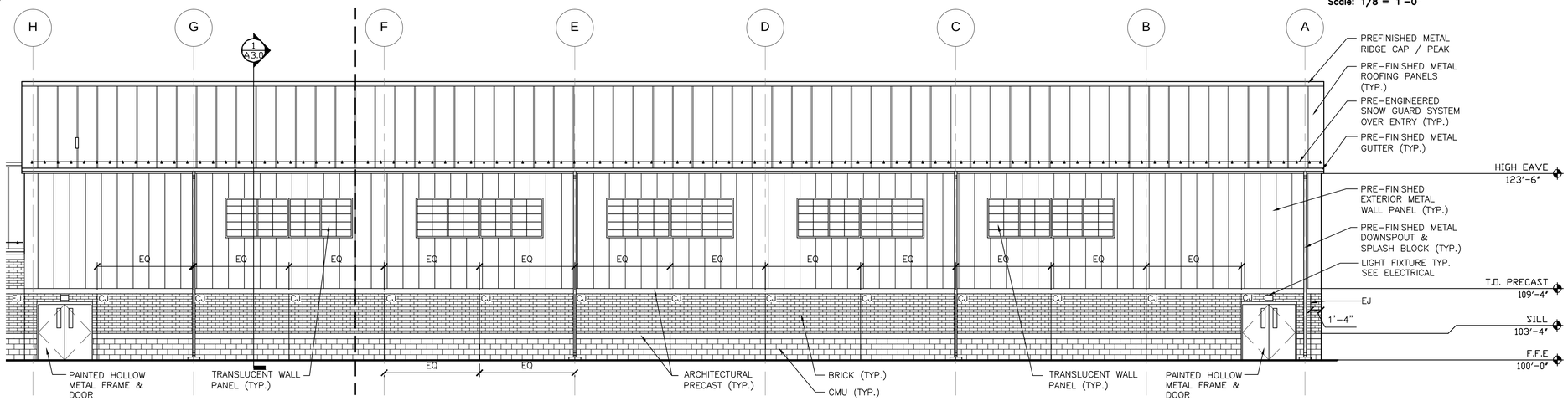
1 EXTERIOR ELEVATION – SOUTH

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



2 PARTIAL EXTERIOR ELEVATION – EAST

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



3 PARTIAL EXTERIOR ELEVATION – EAST (CONT.)

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

DPW
FORT MCCOY, WI

MARK	DESCRIPTION	DATE	MOD #
	MOD REQUEST #		

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REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

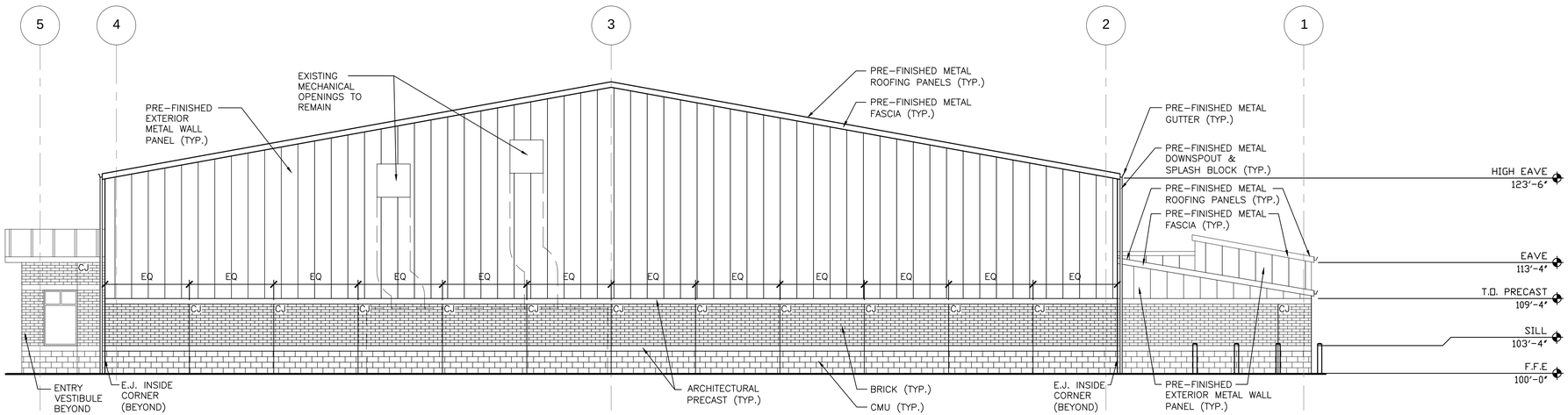
Designed by: SEH	Ckd by: JM	Date: 09/15/21	
Dwn by: JM	Reviewed by: PF	Work Order No 1186	Rev. #
	Submitted by: DPW	Project Number ES 12003-23	

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EXTERIOR ELEVATIONS

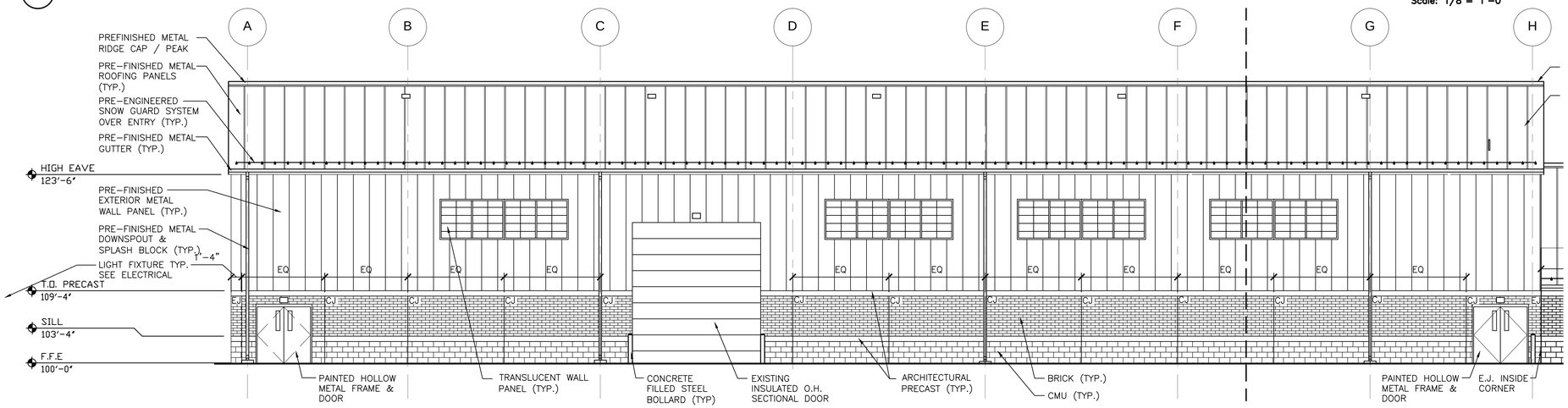
SHEET NUMBER:
A2.0

SHEET 24of 116



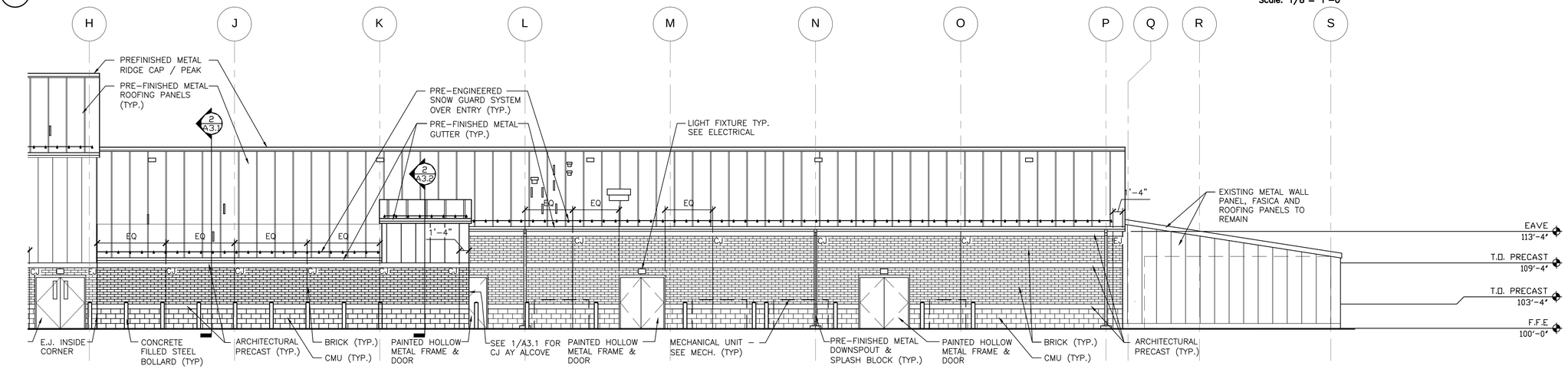
1 EXTERIOR ELEVATION – NORTH

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



2 PARTIAL EXTERIOR ELEVATION – WEST

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



3 PARTIAL EXTERIOR ELEVATION – WEST (CONT.)

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

DPW
FORT MCCOY, WI

MARK	DESCRIPTION	DATE	MOD #
	MOD REQUEST #		

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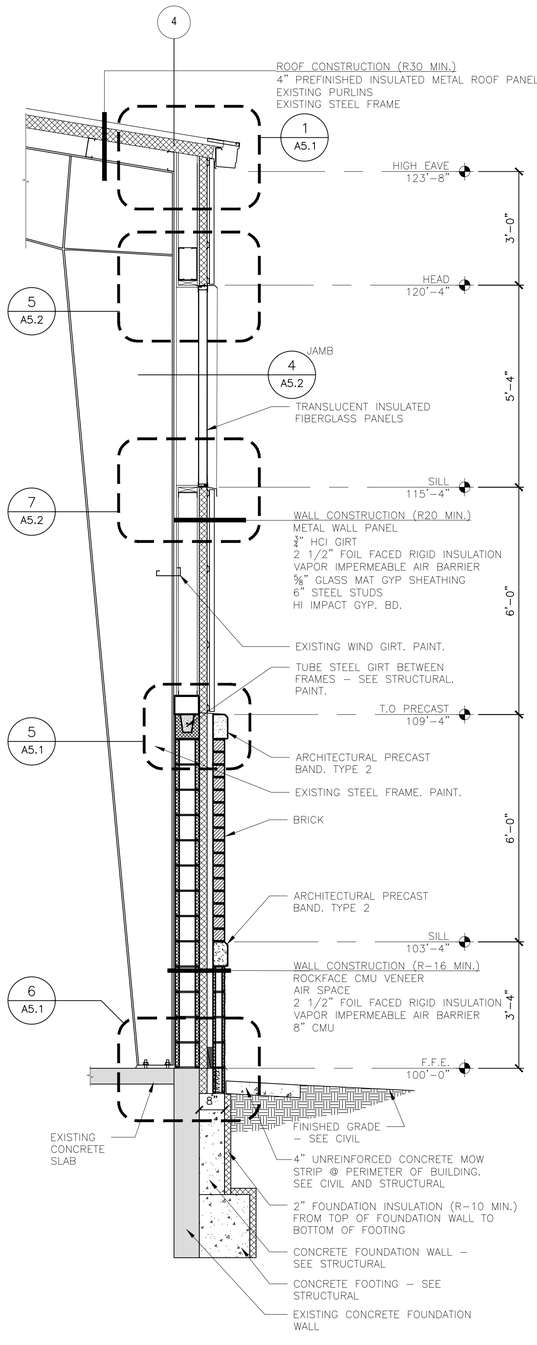
REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: SEH	Ckd by: JM	Rev. #	Date: 09/15/21
Dwn by: JM	Reviewed by: PF	Work Order No 1186	Project Number ES 12003.23
FORT McCOY DIRECTORATE OF PUBLIC WORKS 2171 SOUTH 8TH AVE. FORT MC COY, WI 54656		Submitted by: DPW	

EXTERIOR ELEVATIONS

SHEET NUMBER:
A2.1
SHEET 25of 116

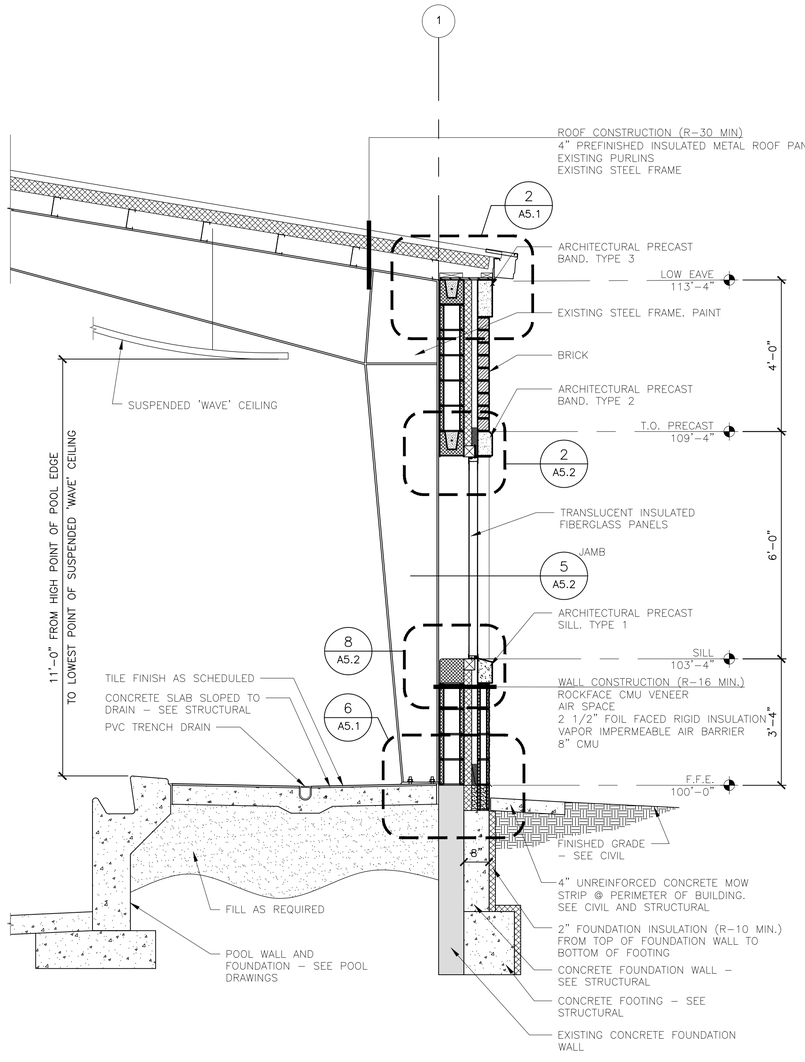
Plot date:



NOTE: DO NOT SEAL JOINTS AT FOIL FACED RIGID INSULATION

1 WALL SECTION @ EAVE OF HIGH WALL (GYM)

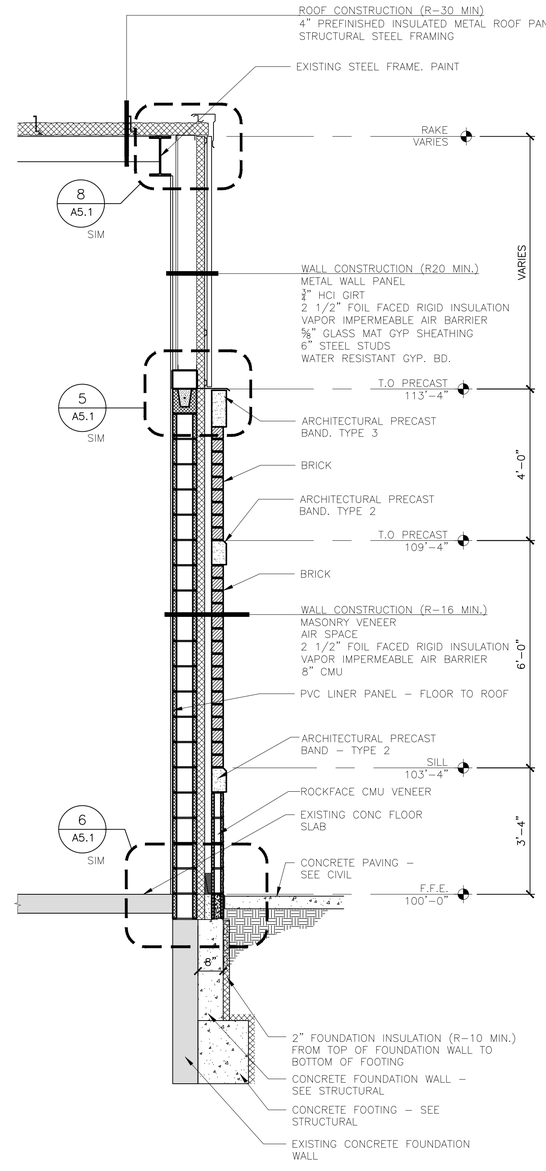
1/2" = 1'-0"



NOTE: DO NOT SEAL JOINTS AT FOIL FACED RIGID INSULATION

2 WALL SECTION @ EAVE OF LOW WALL (POOL)

1/2" = 1'-0"



3 WALL SECTION @ RAKE OF END WALL (POOL)

1/2" = 1'-0"

DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

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REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

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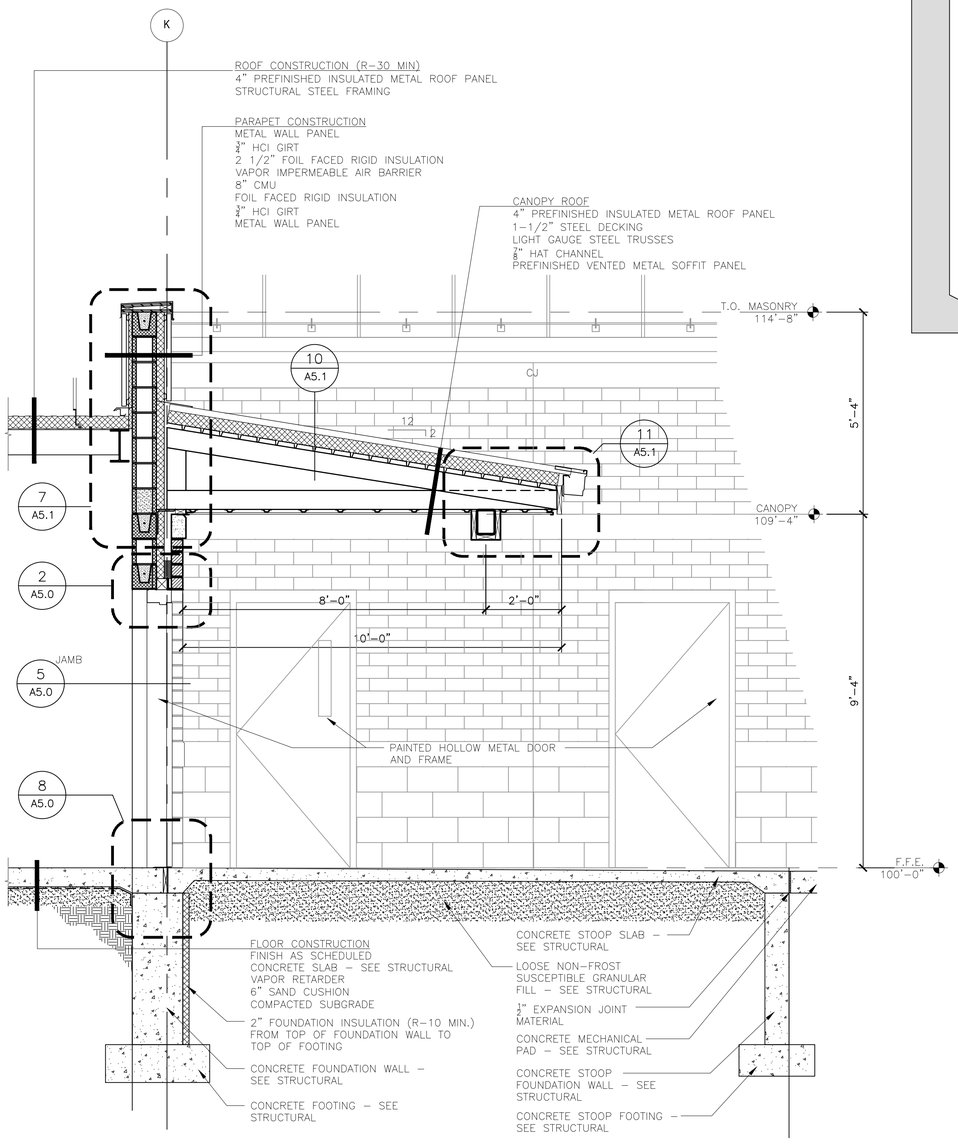
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FORT MC COY, WI 54656

WALL SECTIONS

SHEET NUMBER:
A3.0

SHEET 26of 116

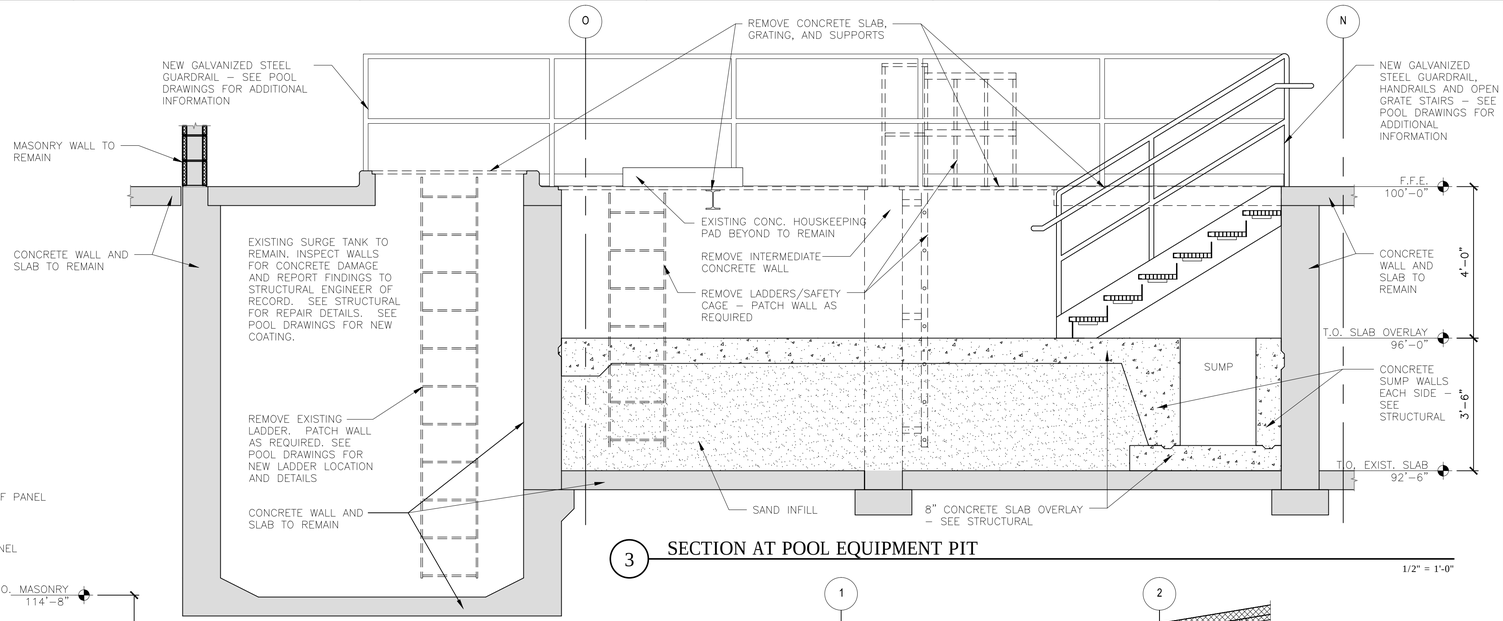
Plot date:



NOTE: DO NOT SEAL JOINTS AT FOIL FACED RIGID INSULATION

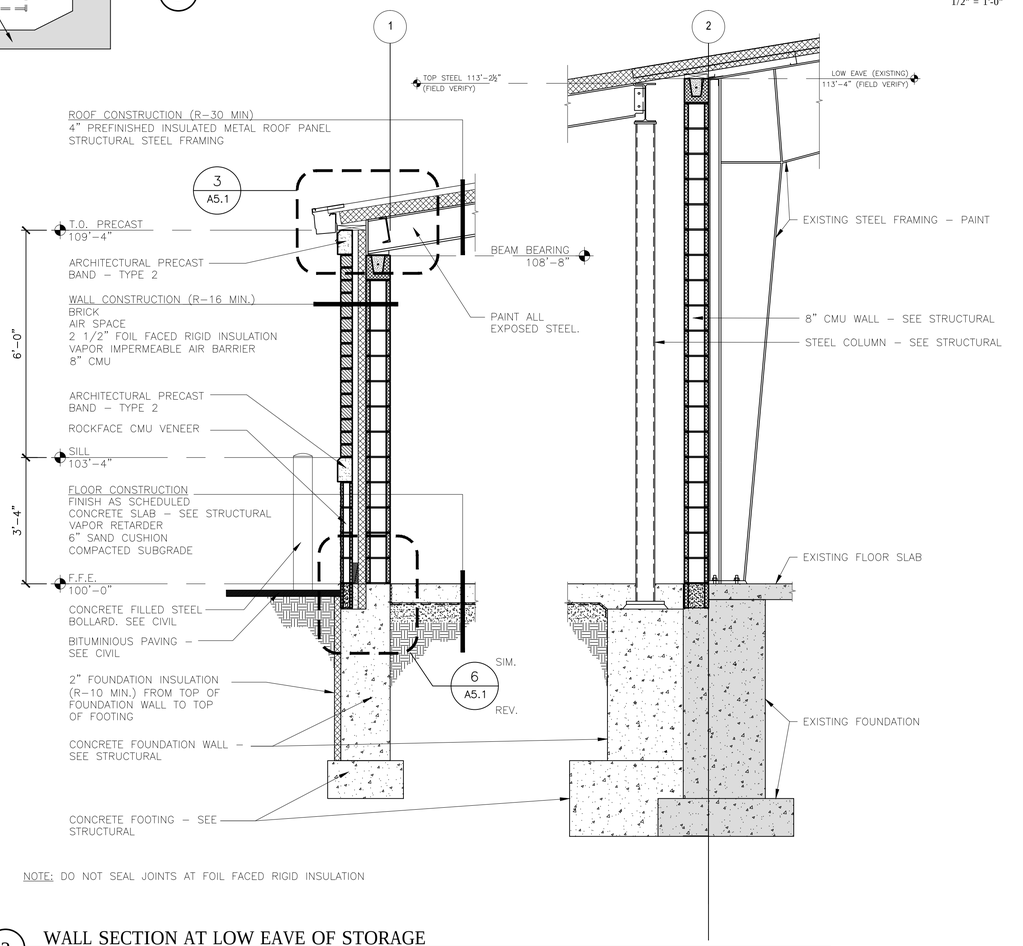
1 WALL SECTION AT CANOPY AND DOOR

1/2" = 1'-0"



3 SECTION AT POOL EQUIPMENT PIT

1/2" = 1'-0"



NOTE: DO NOT SEAL JOINTS AT FOIL FACED RIGID INSULATION

2 WALL SECTION AT LOW EAVE OF STORAGE

1/2" = 1'-0"

DPW
FORT MCCOY, WI

MARK	DATE	MOD #
MOD REQUEST # - DESCRIPTION		

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

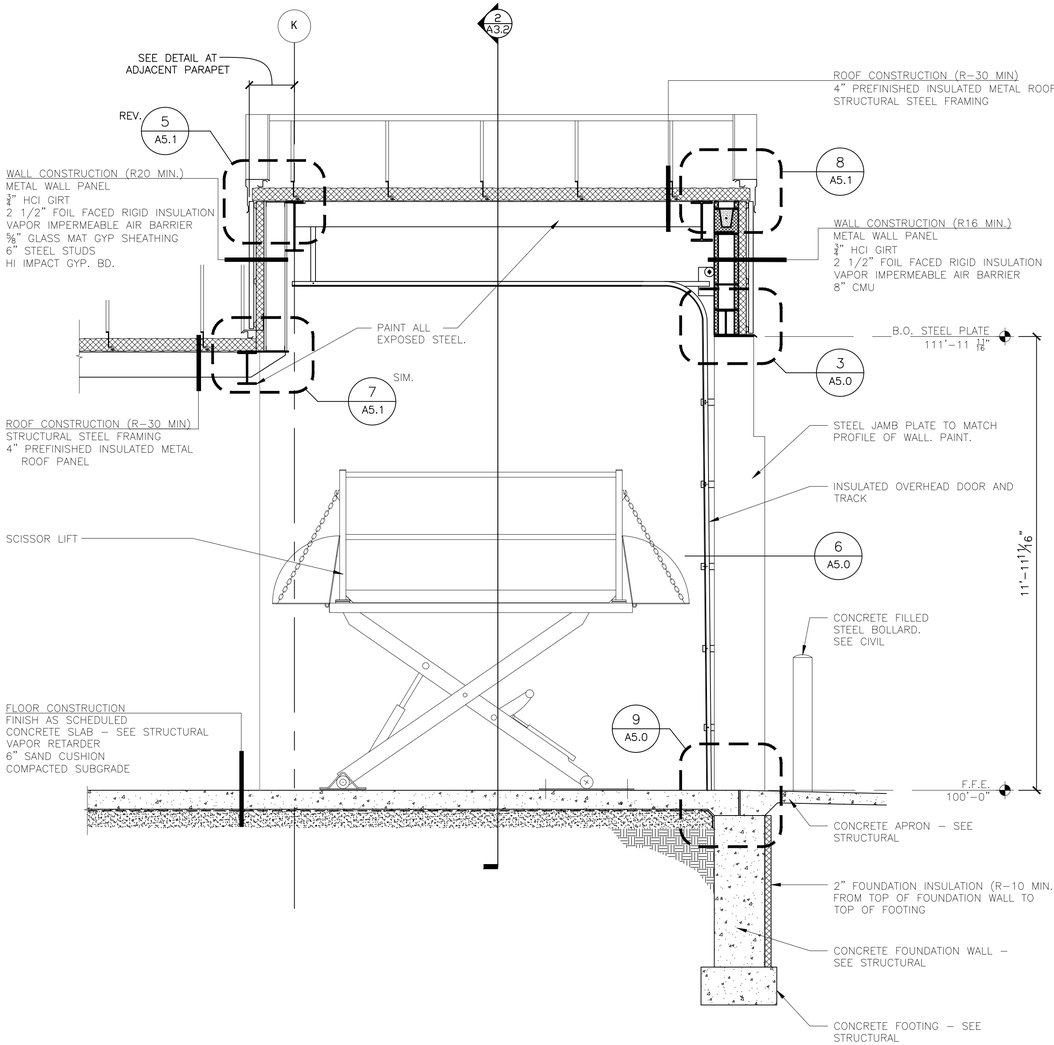
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WALL SECTIONS

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Dwn by: CS	Cad by: JM
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Submitted by: DPW	Project Number ES 12003.2J
	Rev. #

SHEET NUMBER:
A3.1
SHEET 27 of 116

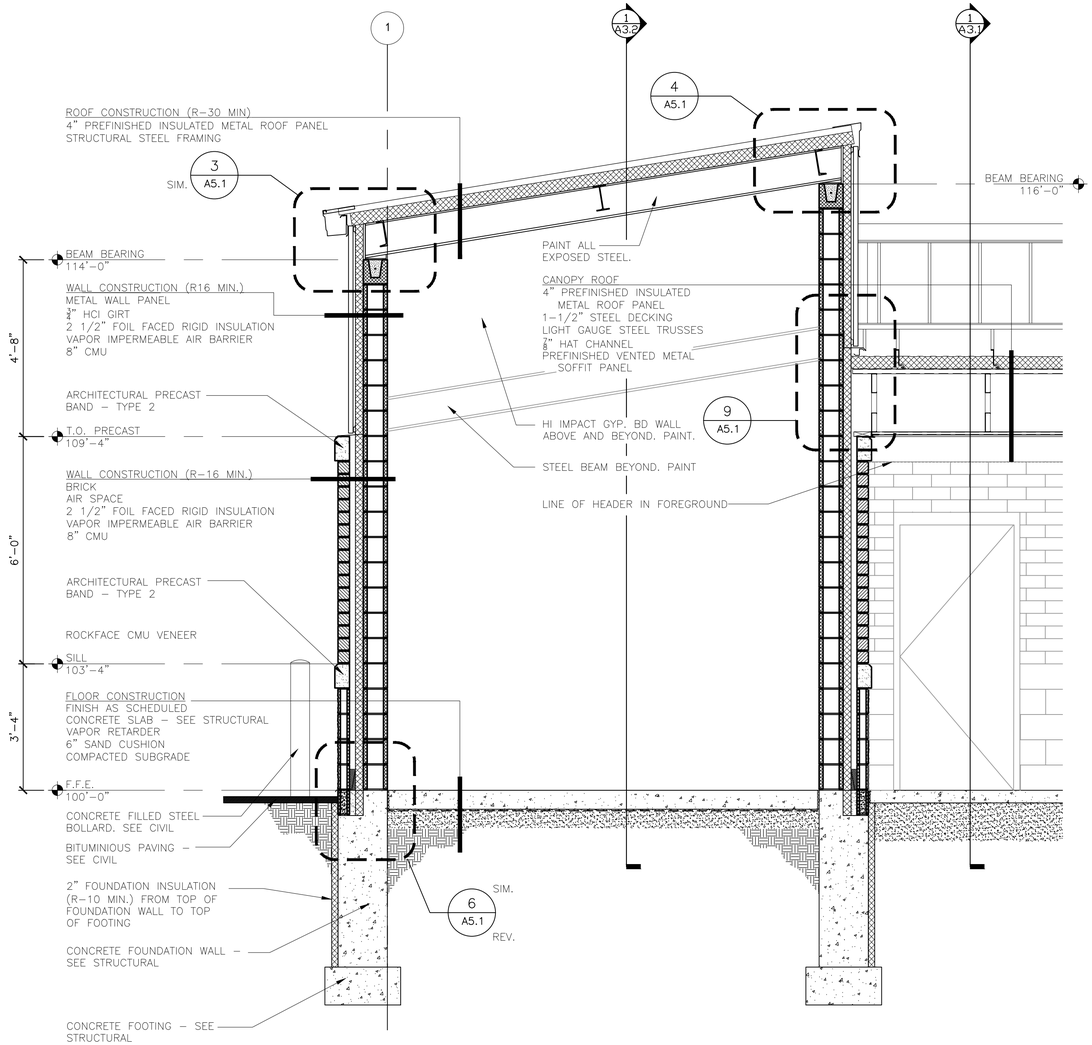
Plot date:



NOTE: DO NOT SEAL JOINTS AT FOIL FACED RIGID INSULATION

1 WALL SECTION AT STORAGE RECEIVING AREA

1/2" = 1'-0"



NOTE: DO NOT SEAL JOINTS AT FOIL FACED RIGID INSULATION

2 WALL SECTION AT STORAGE RECEIVING AREA

1/2" = 1'-0"

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

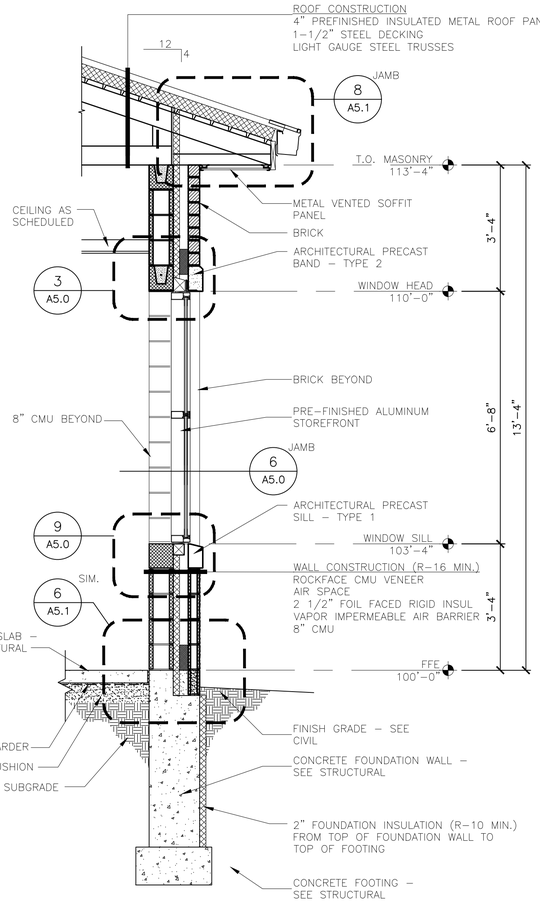
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WALL SECTIONS

Designed by:	Date:
SEH	09/15/21
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Reviewed by: PF	Work Order No 1186
Submitted by: DPW	Project Number ES 12003-23

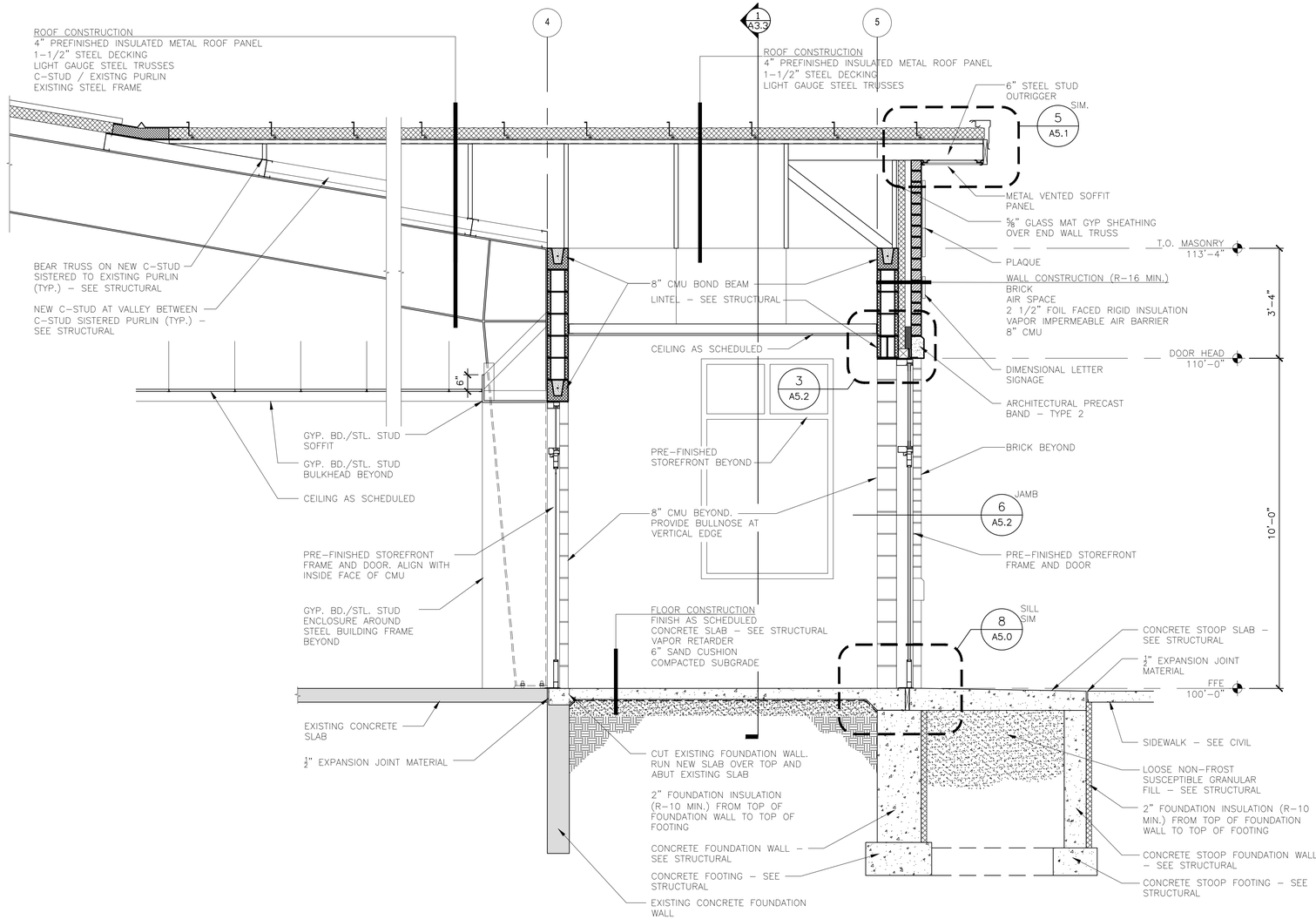
SHEET NUMBER:
A3.2
SHEET 28 of 116

Plot date:



1 WALL SECTION AT VESTIBULE

1/2" = 1'-0"



2 WALL SECTION AT VESTIBULE

1/2" = 1'-0"

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: SEH	Drwn by: CS	Reviewed by: PF	Submitted by: DPW
Cad by: JM		Work Order No 1186	Project Number EIS 12003-2J
Date: 09/15/21	Rev. #		

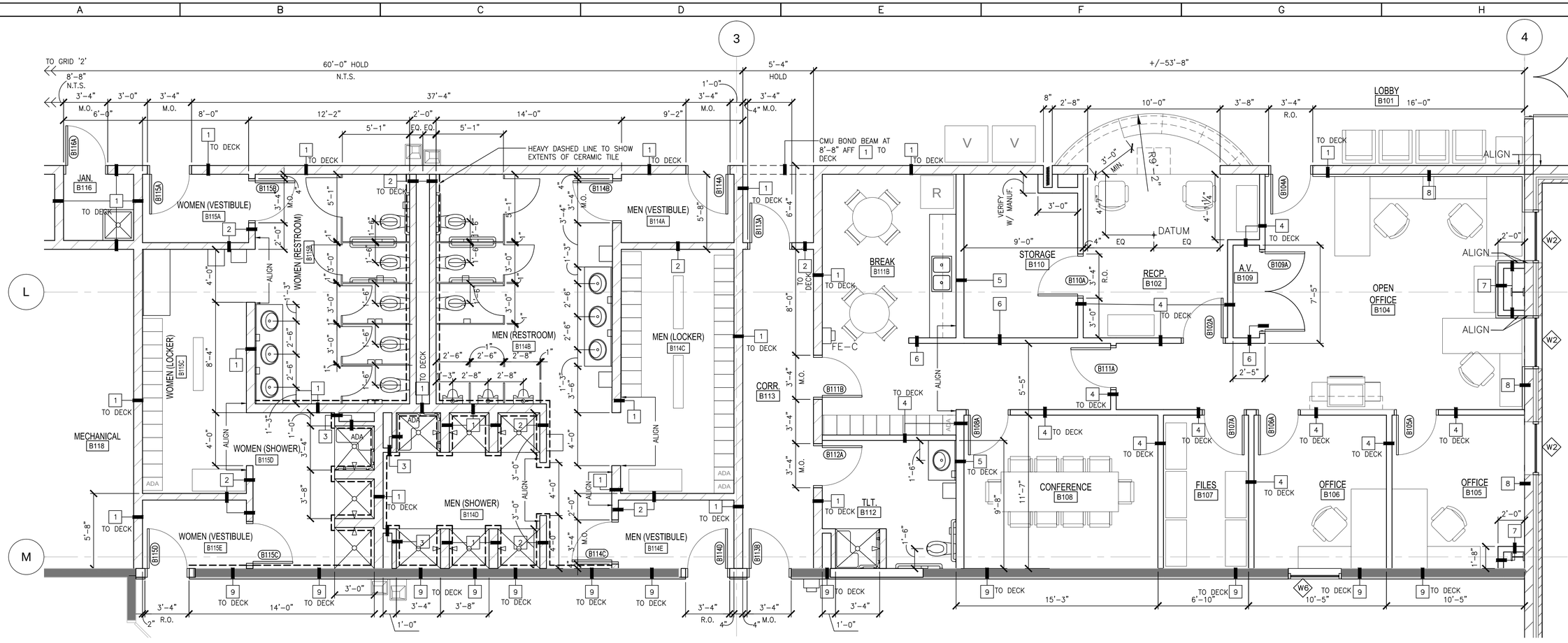
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FORT MC COY, WI 54656

WALL SECTIONS

SHEET NUMBER:
A3.3

SHEET 29 of 116

Plot date:



1 ENLARGED DIMENSIONED PLAN

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

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

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FORT McCOY, WISCONSIN

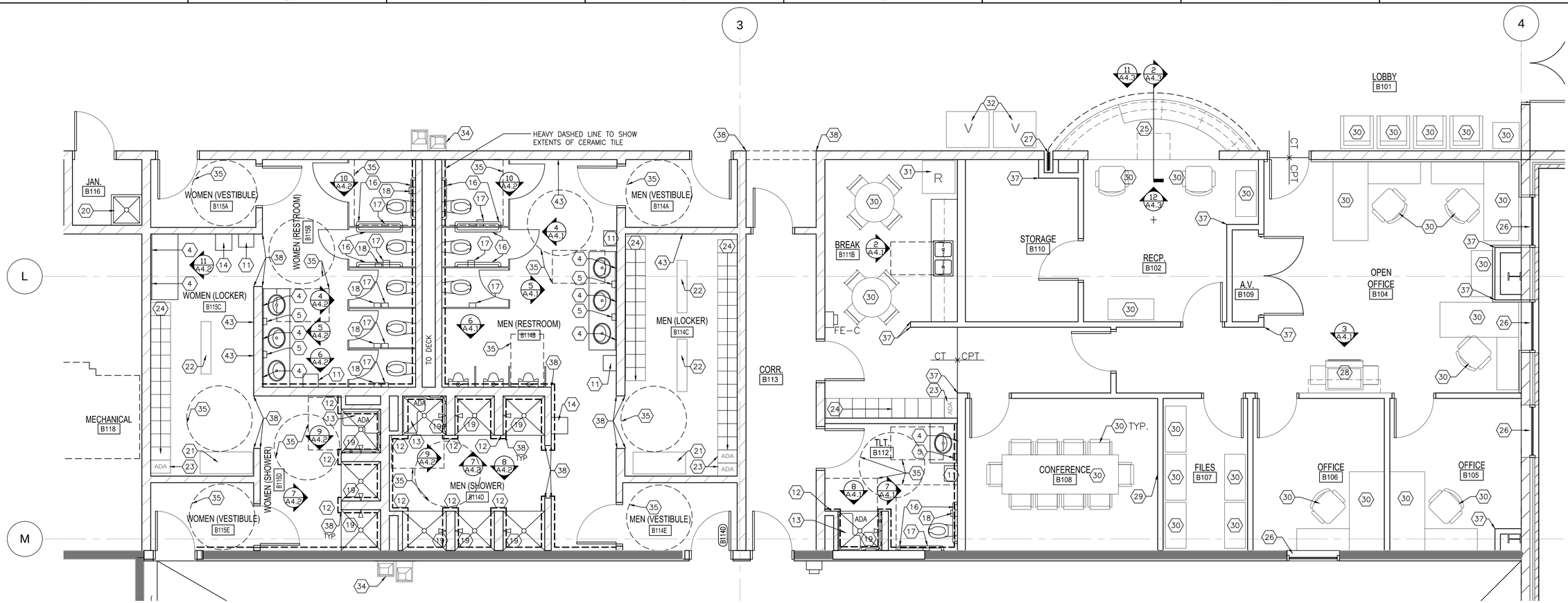
Designed by: SEH	Ckd by: JM	Rev. #	Date: 09/15/21
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ENLARGED DIMENSIONED PLAN

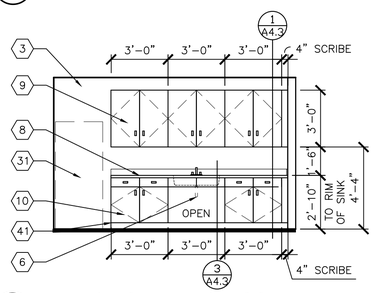
SHEET NUMBER:
A4.0
SHEET 30 of 116

Plot date:



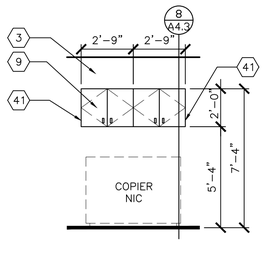
1 ENLARGED FIXTURE AND EQUIPMENT PLAN

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



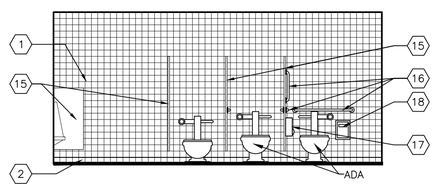
2 ELEVATION - BREAKROOM

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



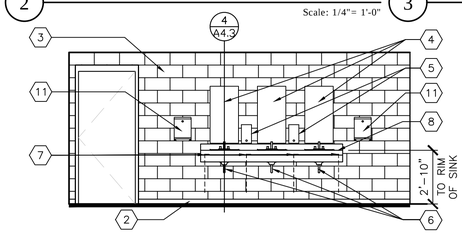
3 ELEVATION - OPEN OFFICE

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



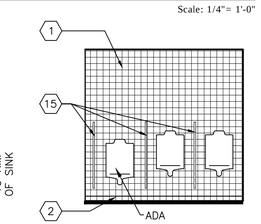
4 ELEVATION - MENS

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



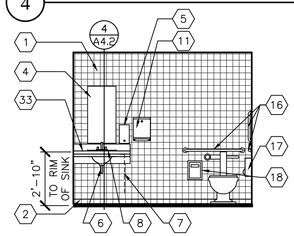
5 ELEVATION - MENS

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



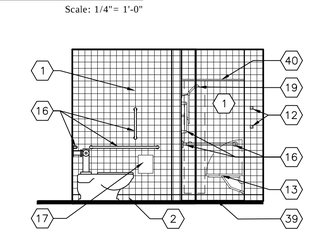
6 ELEVATION - MENS

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



7 ELEVATION - B112 WEST

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



8 ELEVATION - B112 SOUTH

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

ENLARGED FLOOR PLAN & INTERIOR ELEV. KEYNOTES:

(NOTE: NOT ALL KEYNOTES APPLY TO THIS SHEET)

1. CERAMIC TILE
2. CERAMIC TILE BASE
3. PAINT AS SCHEDULED
4. 1'-6" X 3'-0" MIRROR
5. SOAP DISPENSER
6. INSULATE EXPOSED PIPING – TYPICAL
7. SUPPORT BRACKETS
8. P-LAM COUNTER WITH DROP-IN SINK AND 4" BACKSPLASH
9. P-LAM WALL CABINETS – TYP.
10. P-LAM BASE CABINETS – TYP.
11. PAPER TOWEL DISPENSER
12. ROBE/COAT HOOK
13. ADA FOLDING SHOWER SEAT
14. SUIT MATE – SEE ELECTRICAL AND PLUMBING DRAWINGS
15. TOILET/URINAL PARTITIONS
16. GRAB BARS
17. TOILET PAPER DISPENSER
18. SANITARY NAPKIN DISPOSAL UNIT
19. SHOWER FIXTURE – SEE PLUMBING. ADA WHERE INDICATED
20. SERVICE SINK – SEE PLUMBING
21. ADA BENCH
22. BENCH
23. ADA LOCKER
24. LOCKER – TYPE A
25. BUILT-IN RECEPTION COUNTER W/ PLAM COUNTER/CABINETS
26. P-LAM WINDOW SILL AND BLINDS
27. SIDE FOLDING SECURITY GRILLE
28. COPIER/PRINTER N.I.C.
29. PROJECTOR SCREEN. SEE WALL TYPE GENERAL NOTES FOR BLOCKING REQUIREMENTS. VERIFY FINAL LOCATION W/ GOVERNMENT.
30. FURNITURE N.I.C.
31. REFRIGERATOR N.I.C. SEE ELECTRICAL
32. RELOCATED VENDING MACHINE N.I.C. SEE ELECTRICAL
33. P-LAM SIDE SPLASH
34. HIGH/LOW DRINKING FOUNTAIN
35. ADA CLEAR FLOOR SPACE
36. RETURN GYP. BD. AT HEAD AND JAMB TO TERMINATE WITH J BEAD AT FRAME
37. PROVIDE CORNER GUARDS
38. PROVIDE BULLNOSE CMU AT OUTSIDE CORNERS
39. MARBLE THRESHOLD AT SHOWER. ADA COMPLIANT AT ADA SHOWER.
40. CURTAIN ROD AND SHOWER CURTAIN
41. FINISHED CABINET END PANEL
42. P-LAM COUNTER WITH 4" BACKSPLASH AND 4" SIDESPLASH.
43. 2'-0" X 6'-0" MIRROR. MOUNT 8" A.F.F.

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

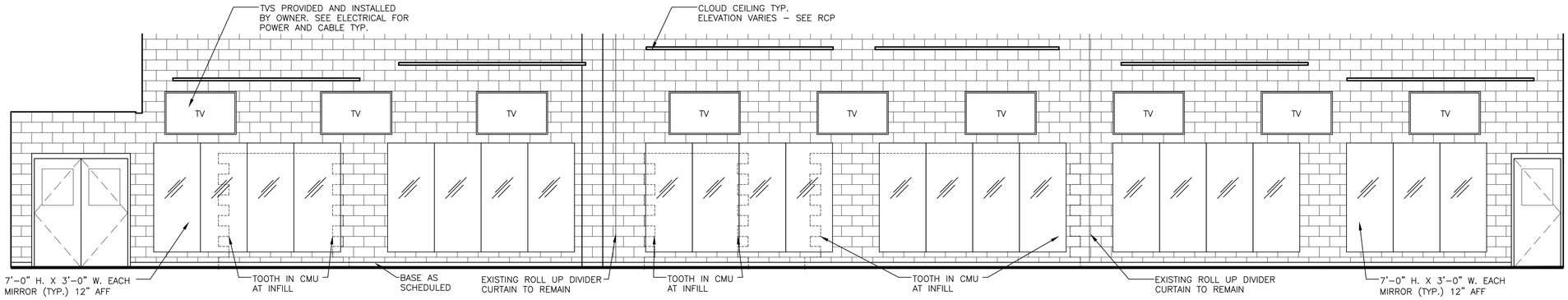
REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by:	Date:
###	09/15/21
Dwn by:	Ckd by:
BF	##
Reviewed by:	Work Order No
###	1186
Submitted by:	Project Number
DPW	ES 12003-23

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MC COY, WI 54656

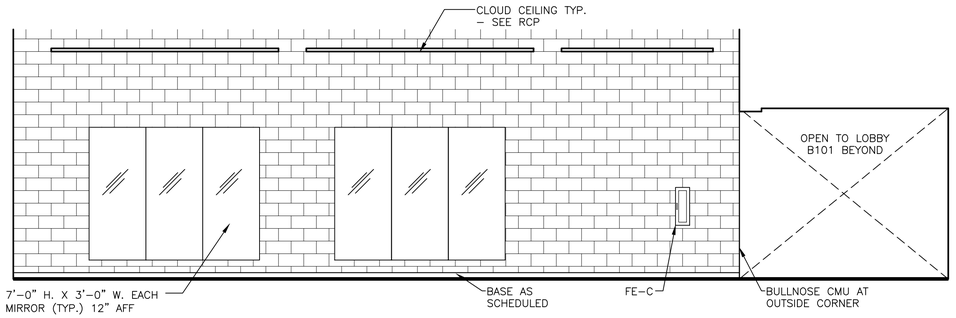
ENLARGED FIXTURE AND EQUIPMENT PLAN AND INTERIOR ELEVATIONS

SHEET NUMBER:
A4.1
SHEET 31 of 116



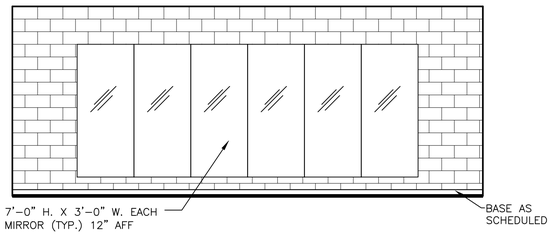
1 NORTH ELEVATION - CARDIO AND NAUTILUS

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



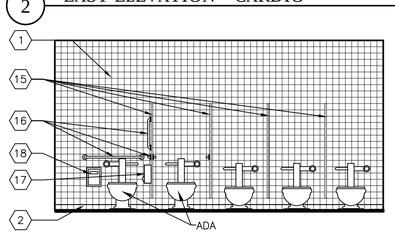
2 EAST ELEVATION - CARDIO

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



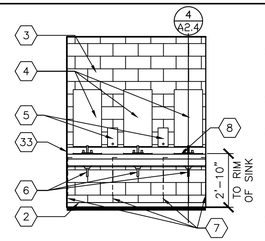
3 WEST ELEVATION - STRETCHING

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



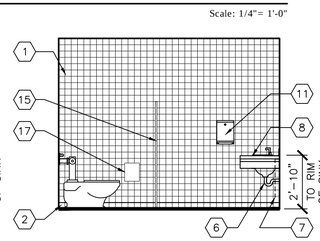
4 ELEVATION - WOMENS

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



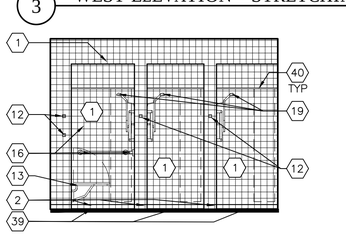
5 ELEVATION - WOMENS

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



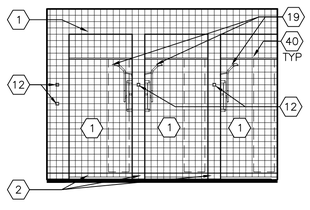
6 ELEVATION - WOMENS

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



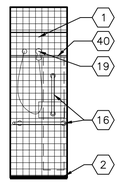
7 ELEVATION - SHOWERS, TYP.

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



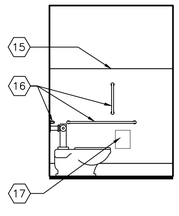
8 ELEVATION - SHOWERS, TYP.

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



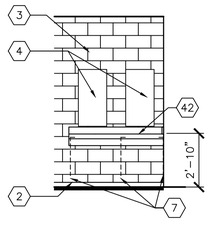
9 ELEVATION - ADA SHOWER

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



10 ELEVATION - TOILET STALL

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



11 ELEVATION - WOMENS

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

ENLARGED FLOOR PLAN & INTERIOR ELEV. KEYNOTES:

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43. 2'–0" X 6'–0" MIRROR. MOUNT 8" A.F.F.

DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

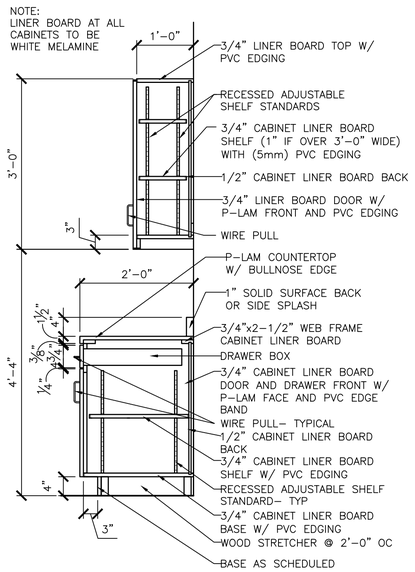
Designed by: SEH	Ckd by: JM	Rev. #	Work Order No 1186
Dwn by: CS		Reviewed by: PF	Project Number ES 12003-23
		Submitted by: DPW	Dates 09/15/21

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

INTERIOR ELEVATIONS

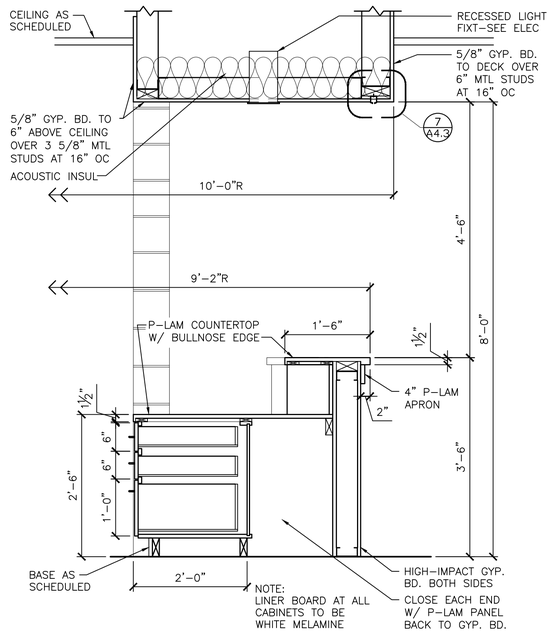
SHEET NUMBER:
A4.2

SHEET 32 of 116



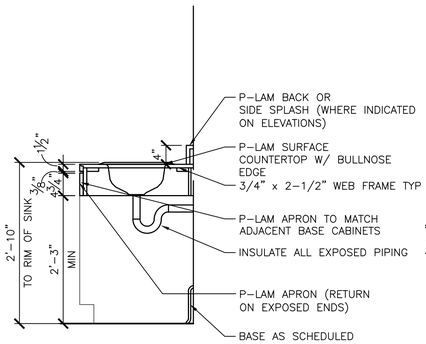
1 TYPICAL BASE AND UPPER CABINET

Scale: 3/4"= 1'–0"



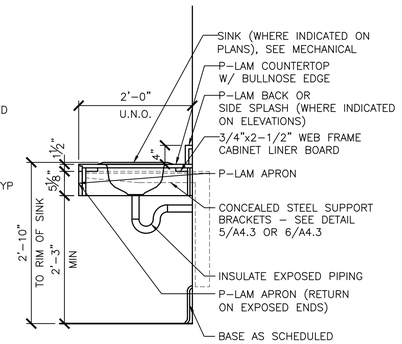
2 WALL SECTION AT SERVICE WINDOW

Scale: 3/4"= 1'–0"



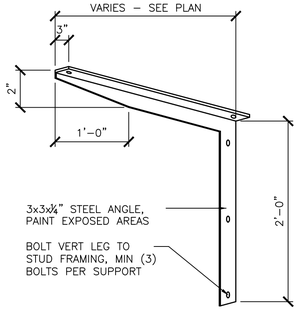
3 BREAKROOM SINK

Scale: 3/4"= 1'–0"



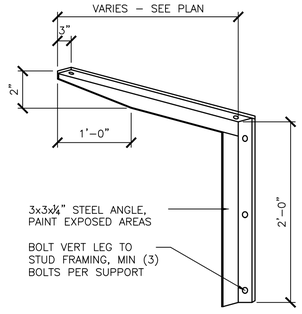
4 SINK AT RESTROOM

Scale: 3/4"= 1'–0"



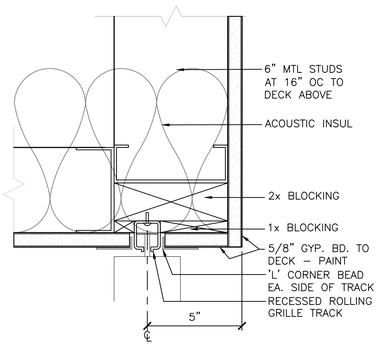
5 IN–WALL MOUNTED SUPPORT BRACKET–GYP. BD.

Scale: 3/4"= 1'–0"



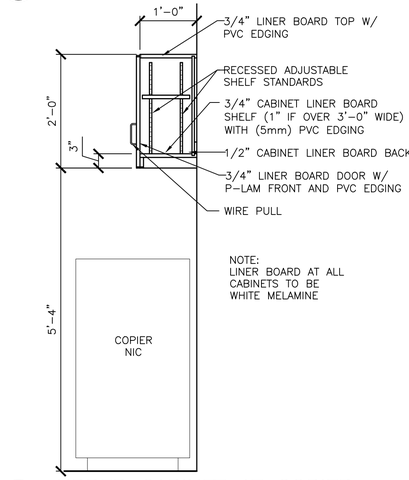
6 SURFACE MOUNTED SUPPORT BRACKET–CMU

Scale: 3/4"= 1'–0"



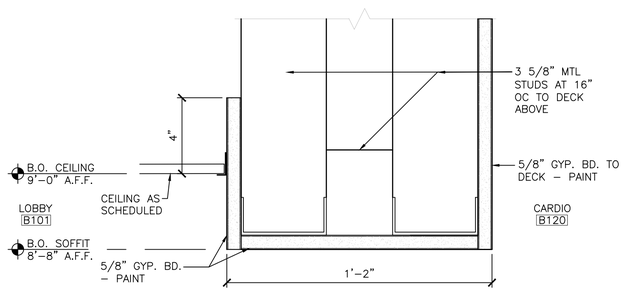
7 SECURITY GRILLE TRACK DETAIL

Scale: 3"= 1'–0"



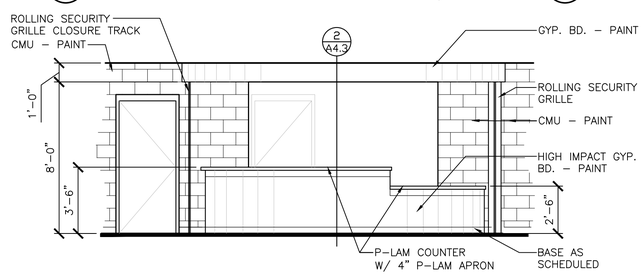
8 UPPER CABINET AT COPIER

Scale: 3/4"= 1'–0"



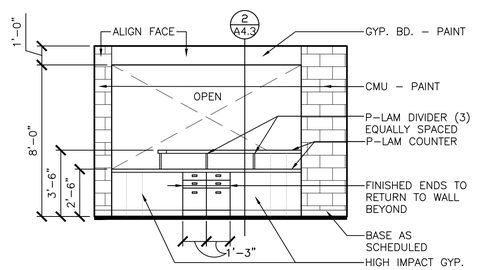
9 SOFFIT DETAIL

Scale: 3"= 1'–0"



11 RECEPTION DESK

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



12 RECEPTION DESK

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

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

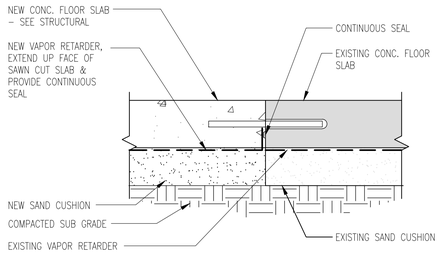
FORT MCCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

Designed by: SEH	Date: 09/15/21
Dwn by: CS	Cad by: JM
Reviewed by: PF	Rev. #
Submitted by: DPW	Work Order No 1186
	Project Number ES 12003.2J

INTERIOR ELEVATIONS AND DETAILS

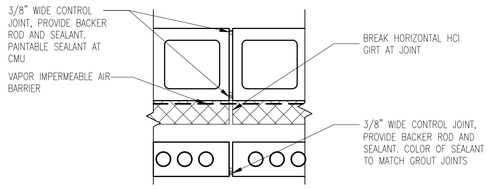
SHEET NUMBER:
A4.3
SHEET 33 of 116

Plot date:



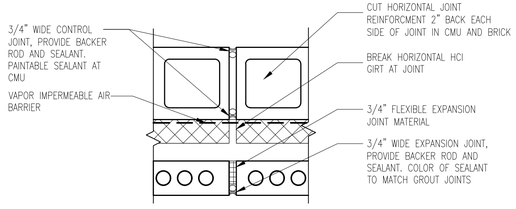
1 EXIST. TO NEW SLAB DETAIL

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



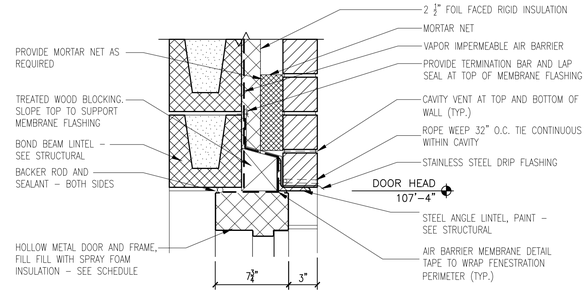
4 CONTROL JOINT DETAIL

Scale: 1-1/2"= 1'-0"



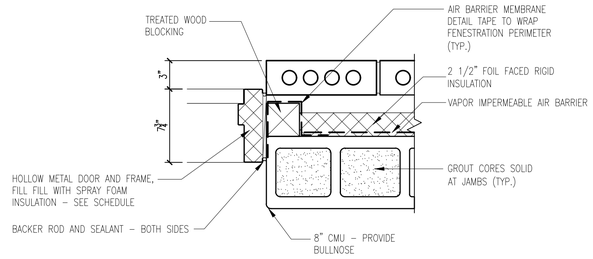
7 EXPANSION JOINT DETAIL

Scale: 1-1/2"= 1'-0"



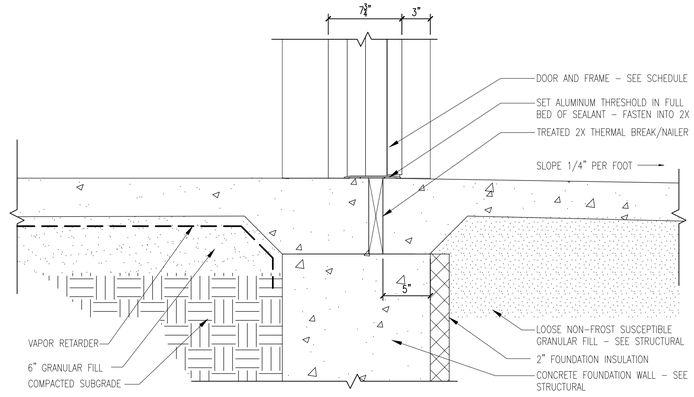
2 HM DOOR HEAD DETAIL

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



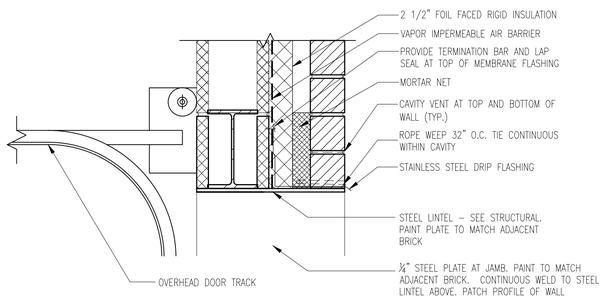
5 HM DOOR JAMB DETAIL

Scale: 1-1/2"= 1'-0"



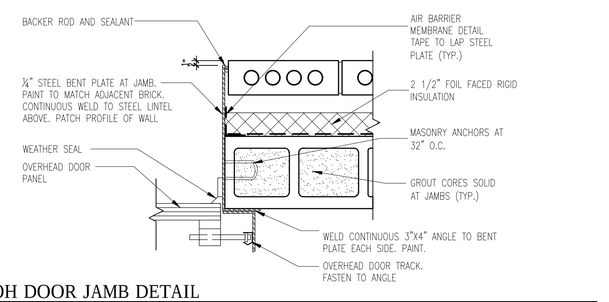
8 HM DOOR SILL DETAIL

Scale: 1-1/2"= 1'-0"



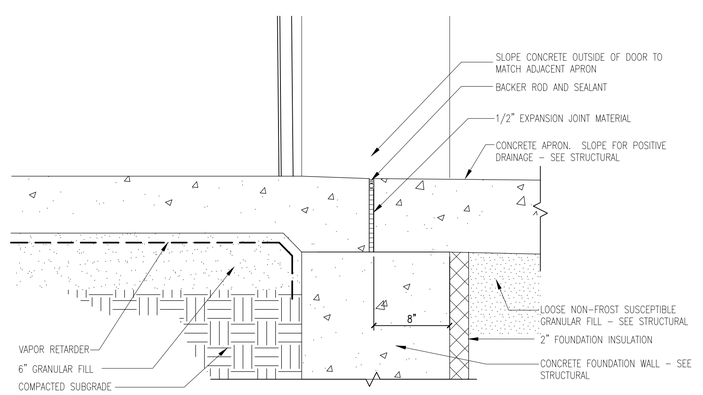
3 OH DOOR HEAD DETAIL

Scale: 1-1/2"= 1'-0"



6 OH DOOR JAMB DETAIL

Scale: 1-1/2"= 1'-0"



9 OH DOOR SILL DETAIL

Scale: 1-1/2"= 1'-0"

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

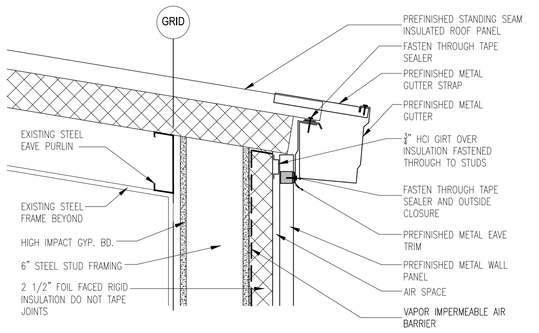
FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

Designed by: SEH	Cad by: JM	Rev. #	Date: 09/15/21
Dwn by: CS	Reviewed by: PF	Work Order No 1186	Project Number ES 12003.2J
	Submitted by: DPW		

DETAILS

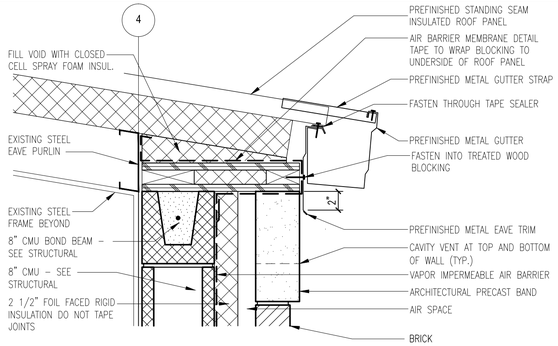
SHEET NUMBER:
A5.0
SHEET 34 of 116

Plot date:



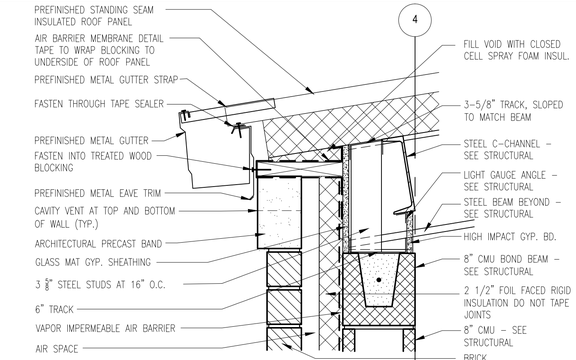
1 LOW EAVE DETAIL - GYM

Scale: 1-1/2"= 1'-0"



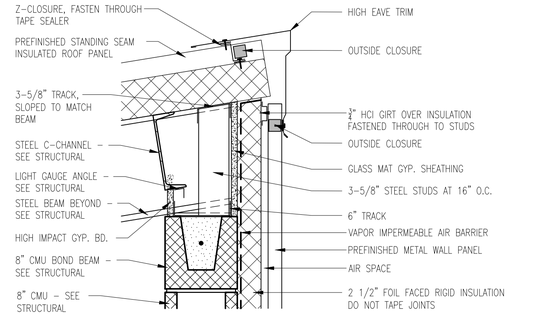
2 LOW EAVE DETAIL - POOL

Scale: 1-1/2"= 1'-0"



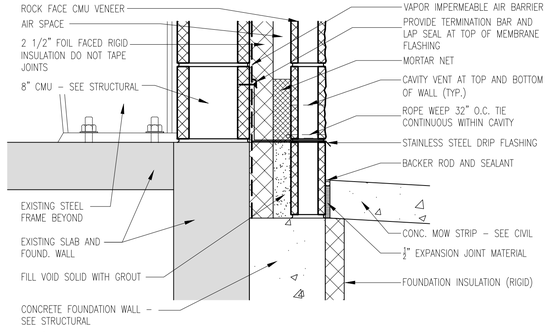
3 LOW EAVE DETAIL - STORAGE ADDITION

Scale: 1-1/2"= 1'-0"



4 HIGH EAVE DETAIL - STORAGE ADDITION

Scale: 1-1/2"= 1'-0"

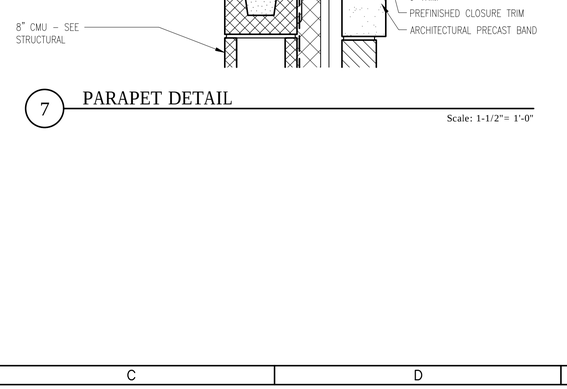


5 CMU / WALL PANEL TRANSITION

Scale: 1-1/2"= 1'-0"

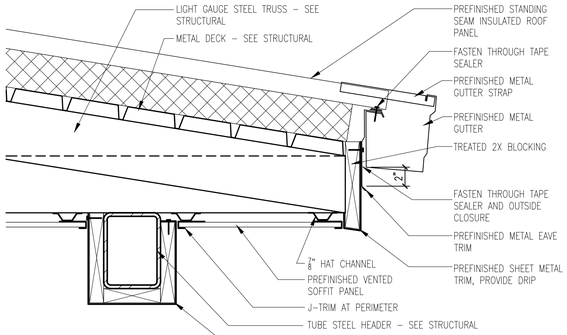
6 BASE OF WALL

Scale: 1-1/2"= 1'-0"



7 PARAPET DETAIL

Scale: 1-1/2"= 1'-0"

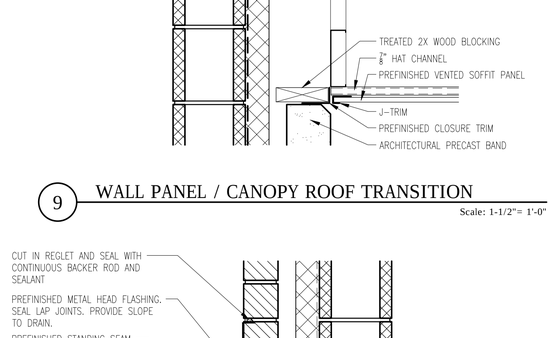


8 RAKE DETAIL - STORAGE ADDITION

Scale: 1-1/2"= 1'-0"

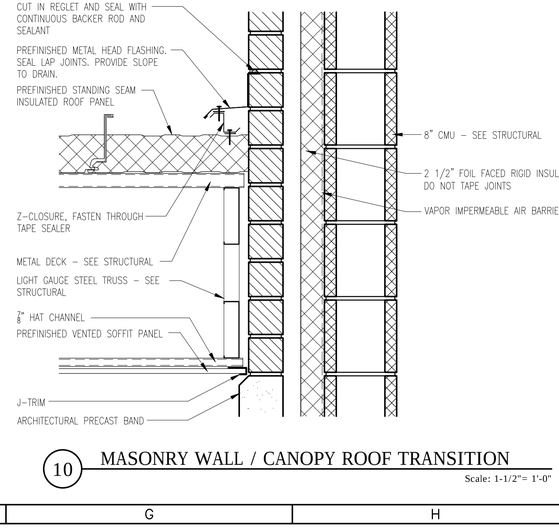
11 CANOPY EAVE DETAIL

Scale: 1-1/2"= 1'-0"



9 WALL PANEL / CANOPY ROOF TRANSITION

Scale: 1-1/2"= 1'-0"



10 MASONRY WALL / CANOPY ROOF TRANSITION

Scale: 1-1/2"= 1'-0"

DPW
FORT MCCOY, WI

MARK	DESCRIPTION	DATE	MOD #
	MOD REQUEST #		

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

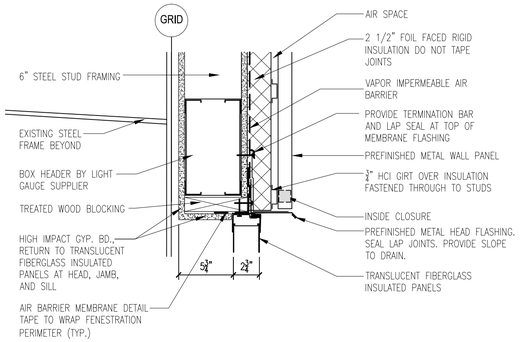
Designed by: SEH		Date: 09/15/21	
Dwn by: CS	Ckd by: JM	Rev. #	
Reviewed by: PF		Work Order No 1186	
Submitted by: DPW		Project Number ES 12003.2J	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

DETAILS

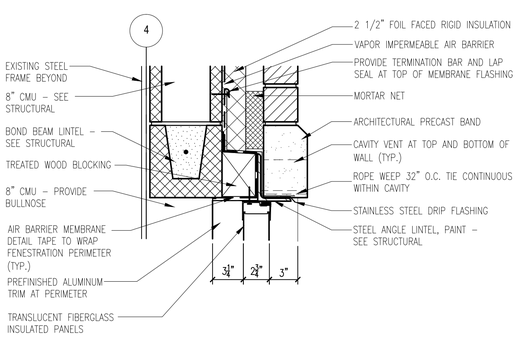
SHEET NUMBER:
A5.1
SHEET 35 of 116

Plot date:



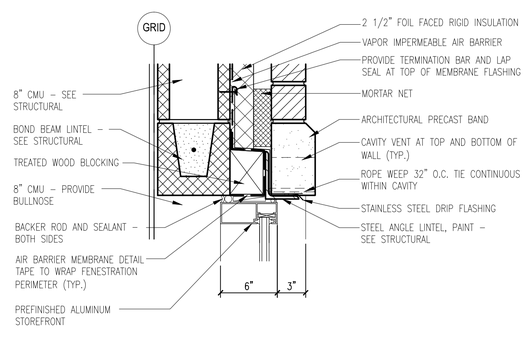
1 TRANSLUCENT PANEL HEAD DETAIL - STUD

Scale: 1-1/2"= 1'-0"



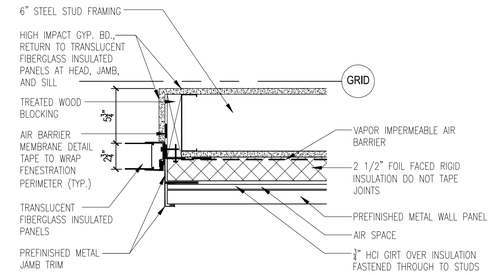
2 TRANSLUCENT PANEL HEAD DETAIL - CMU

Scale: 1-1/2"= 1'-0"



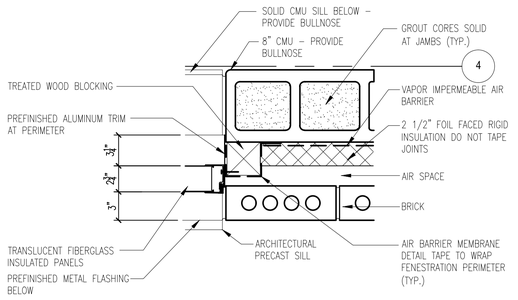
3 STOREFRONT HEAD DETAIL

Scale: 1-1/2"= 1'-0"



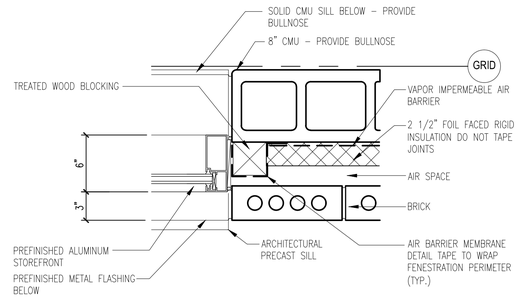
4 TRANSLUCENT PANEL JAMB DETAIL - STUD

Scale: 1-1/2"= 1'-0"



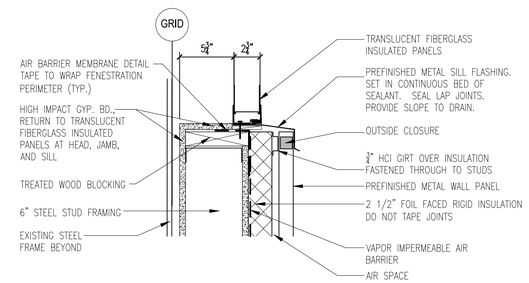
5 TRANSLUCENT PANEL JAMB DETAIL - CMU

Scale: 1-1/2"= 1'-0"



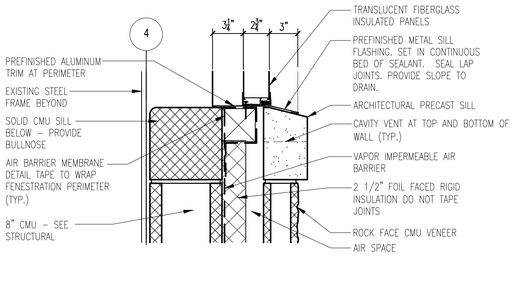
6 STOREFRONT JAMB DETAIL

Scale: 1-1/2"= 1'-0"



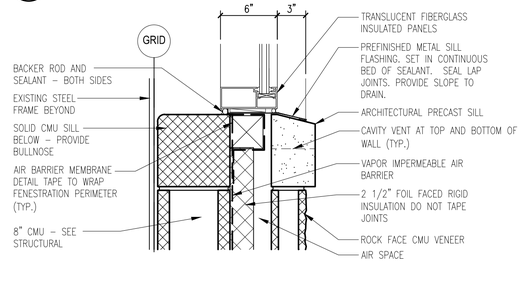
7 TRANSLUCENT PANL SILL DETAIL - STUD

Scale: 1-1/2"= 1'-0"



8 TRANSLUCENT PANEL SILL DETAIL - CMU

Scale: 1-1/2"= 1'-0"



9 STOREFRONT SILL DETAIL

Scale: 1-1/2"= 1'-0"

DPW
FORT MCCOY, WI

MARK	DATE	MOD #
MOD REQUEST # - DESCRIPTION		

SEH

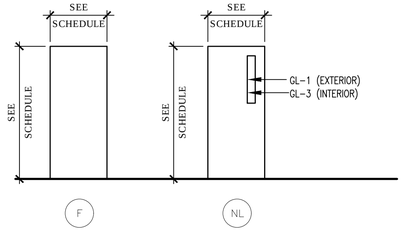
REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

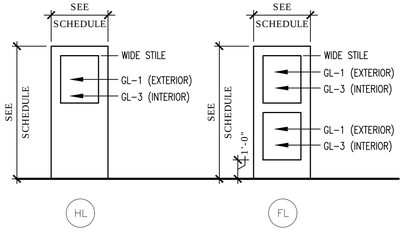
Designed by: SEH	Ckd by: JM	Rev. #	Date: 09/15/21
Dwn by: CS	Reviewed by: PF	Work Order No 1186	Project Number ES 12003-23
FORT McCOY DIRECTORATE OF PUBLIC WORKS 2171 SOUTH 8TH AVE. FORT MC COY, WI 54656		Submitted by: DPW	

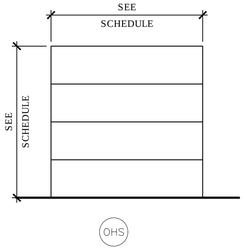
DETAILS

SHEET NUMBER:
A5.2
SHEET 36 of 116

Plot date:







DOOR TYPES

GLASS TYPES

GL-1	1"-THICK INSULATED, TEMPERED GLASS, LOW-E
GL-2	1"-THICK INSULATED, LOW-E
GL-3	¼"-THICK CLEAR TEMPERED GLASS

GLAZING TYPES

DOOR SCHEDULE

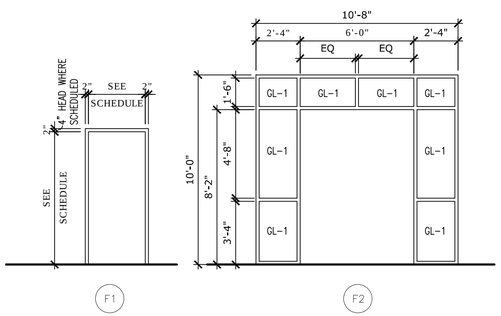
OPEN NO.	OPENING SIZE	OPENING FRAME DEPTH	OPENING TYPE	OPENING MAT'L	OPENING FINISH	FRAME TYPE	FRAME MAT'L	FRAME FINISH	HDWR GROUP	RATING	REMARKS
A001A	WOOD GATE	–	–	–	–	–	–	–	16	–	SEE CIVIL
A100A	EXIST	–	–	–	–	–	–	–	–	–	–
A101A	EXIST	–	–	–	–	–	–	–	–	–	–
A102A	EXIST	–	–	–	–	–	–	–	–	–	–
A103A	PR 3'–0" X 7'–0"	6"	FL	ALUM	ANOD	F1	ALUM	ANOD	11A	–	FIELD VERIFY EXIST. OPENING
A107A	EXIST	–	–	–	–	–	–	–	–	–	–
A108A	PR 3'–4" X 7'–0"	7 ¾"	F	HM	PT	F1	HM	PT	2	–	FIELD VERIFY EXIST. OPENING
A108B	EXIST	–	–	–	–	–	–	–	–	–	–
A109A	EXIST	–	–	–	–	–	–	–	–	–	–
B100A	PR 3'–0" X 8'–2"	6"	FL	ALUM	ANOD	F2	ALUM	ANOD	11	–	–
B100B	PR 3'–0" X 7'–0"	4 ½"	FL	ALUM	ANOD	F3	ALUM	ANOD	10	–	KEY PAD
B102A	3'–0" X 7'–0"	5 ¾"	NL	WD	ST	F1	HM	PT	6	–	–
B104A	3'–0" X 7'–0"	5 ¾"	NL	WD	ST	F1	HM	PT	14	–	4" HEAD, KEY PAD
B105A	3'–0" X 7'–0"	5 ¾"	NL	WD	ST	F1	HM	PT	6	–	–
B106A	3'–0" X 7'–0"	5 ¾"	NL	WD	ST	F1	HM	PT	6	–	–
B107A	3'–0" X 7'–0"	5 ¾"	NL	WD	ST	F1	HM	PT	6	–	–
B108A	3'–0" X 7'–0"	5 ¾"	NL	WD	ST	F1	HM	PT	9	–	–
B109A	PR 3'–0" X 7'–0"	5 ¾"	F	WD	ST	F1	HM	PT	13	–	–
B110A	3'–0" X 7'–0"	5 ¾"	F	WD	ST	F1	HM	PT	5	–	–
B111A	3'–0" X 7'–0"	5 ¾"	NL	WD	ST	F1	HM	PT	6	–	–
B111B	3'–0" X 7'–0"	5 ¾"	NL	WD	ST	F1	HM	PT	14	–	4" HEAD, KEY PAD
B112A	3'–0" X 7'–0"	5 ¾"	F	WD	ST	F1	HM	PT	8	–	4" HEAD
B113A	3'–0" X 7'–0"	5 ¾"	HL	WD	ST	F1	HM	PT	7	–	4" HEAD
B113B	3'–0" X 7'–0"	5 ¾"	HL	FRP	–	F1	FRP	–	14B	–	PREFINISHED, KEY PAD
B114A	3'–0" X 7'–0"	5 ¾"	F	WD	ST	F1	HM	PT	7	–	4" HEAD
B114B	3'–0" X 7'–0"	5 ¾"	F	WD	ST	F1	HM	PT	7	–	4" HEAD
B114C	3'–0" X 7'–0"	5 ¾"	F	FRP	–	F1	FRP	–	7	–	PREFINISHED, 4" HEAD
B114D	3'–0" X 7'–0"	5 ¾"	F	FRP	–	F1	FRP	–	15	–	PREFINISHED, 4" HEAD
B115A	3'–0" X 7'–0"	5 ¾"	F	WD	ST	F1	HM	PT	7	–	4" HEAD
B115B	3'–0" X 7'–0"	5 ¾"	F	WD	ST	F1	HM	PT	7	–	4" HEAD
B115C	3'–0" X 7'–0"	5 ¾"	F	FRP	–	F1	FRP	–	7	–	PREFINISHED, 4" HEAD
B115D	3'–0" X 7'–0"	5 ¾"	F	FRP	–	F1	FRP	–	15	–	PREFINISHED
B116A	3'–0" X 7'–0"	5 ¾"	F	HM	PT	F1	HM	PT	5	–	4" HEAD
B117A	3'–0" X 7'–0"	7 ¾"	F	HM	PT	F1	HM	PT	4	–	4" HEAD, KEY PAD
B118A	PR 3'–0" X 7'–0"	7 ¾"	F	HM	PT	F1	HM	PT	2	–	FIELD VERIFY EXIST. OPENING, 4" HEAD
B119A	PR 3'–0" X 7'–0"	5 ¾"	F	HM	PT	F1	HM	PT	12	–	4" HEAD
B120A	3'–0" X 7'–0"	5 ¾"	HL	WD	ST	F1	HM	PT	7	–	4" HEAD
B121A	PR 3'–0" X 7'–0"	5 ¾"	HL	WD	ST	F1	HM	PT	12	–	4" HEAD
B121B	PR 3'–0" X 7'–0"	7 ¾"	NL	HM	PT	F1	HM	PT	14A	–	4" HEAD, KEY PAD
B122A	10'–0" X 12'–0"	–	OHS	–	–	–	–	–	–	–	–
B122B	3'–0" X 7'–0"	7 ¾"	F	HM	PT	F1	HM	PT	4	–	4" HEAD
B122C	3'–0" X 7'–0"	5 ¾"	F	HM	PT	F1	HM	PT	14	–	4" HEAD, KEY PAD
B122D	8'–0" X 8'–0"	–	OHS	–	–	–	–	–	_	–	–
C100A	PR 3'–4" X 7'–0"	7 ¾"	NL	HM	PT	F1	HM	PT	3	–	FIELD VERIFY EXIST. OPENING, 4" HEAD, ALARM
C100B	PR 3'–4" X 7'–0"	7 ¾"	NL	HM	PT	F1	HM	PT	3	–	FIELD VERIFY EXIST. OPENING, 4" HEAD, ALARM
C100C	16'–0" X 16'–0"	–	OHS	–	–	–	–	–	–	–	–
C102A	PR 3'–4" X 7'–0"	7 ¾"	NL	HM	PT	F1	HM	PT	3	–	FIELD VERIFY EXIST. OPENING, 4" HEAD, ALARM
C102B	PR 3'–4" X 7'–0"	7 ¾"	NL	HM	PT	F1	HM	PT	3	–	FIELD VERIFY EXIST. OPENING, 4" HEAD, ALARM

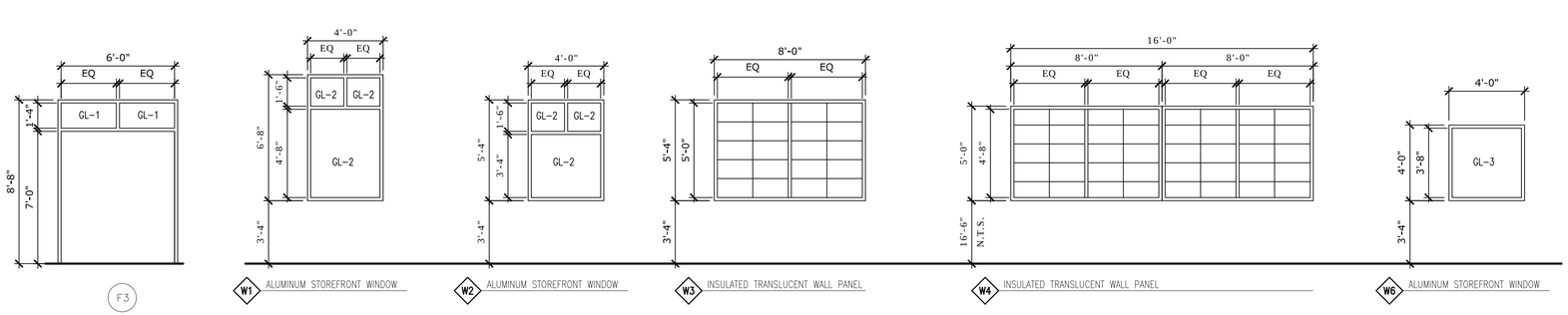
ABBREVIATIONS:
WD – WOOD HM – HOLLOW METAL FRP – FIBERGLASS REINFORCED PLASTIC PT – PAINT ST– STAIN

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	WALL FINISH NORTH	WALL FINISH EAST	WALL FINISH SOUTH	WALL FINISH WEST	CEILINGS MAT'L	CEILINGS FINISH	REMARKS
A100	SAUNA	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	–	–
A101	MECHANICAL	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	–	–
A102	STEAM ROOM	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	–	–
A103	SPA DECK	EXIST	EXIST	LP	EXIST	EXIST	EXIST	EXIST	–	LINER PANEL ABOVE OPENING
A104	SPA	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	–	–
A105	POOL DECK	CT	CT/LP	LP	PT	PT / LP	PT	ACT–4	–	LINER PANEL ABOVE 13'–4" @ S. WALL. PAINT ALL PRIMARY AND SECONDARY EXPOSED STRUCTURAL STEEL. PAINT UNDERSIDE OF ROOF PANEL.
A106	POOL	–	–	–	–	–	–	ACT–4	–	SEE POOL DRAWINGS FOR FINISHES
A107	STORAGE	EXIST	EXIST	EXIST	EXIST	EXIST	PT	EXPOSED	–	–
A108	POOL EQUIP ROOM	SC	–	PT	PT	PT	PT	EXPOSED	–	SEALED CONCRETE PIT, PAINT ALL PRIMARY AND SECONDARY STRUCTURAL STEEL
A109	STORAGE	EXIST	EXIST	EXIST	EXIST	EXIST	PT	EXPOSED	–	–
B100	VESTIBULE	CT	CB	PT	PT	PT	PT	GYP. BD.	PT	–
B101	LOBBY	CT	CB	–	PT	PT	–	ACT–3	–	PAINT GYP. BD. SOFFITS / BULKHEADS
B102	RECEPTION	CPT	VINYL	PT	PT	PT	PT	ACT–1	–	PAINT GYP. BD. SOFFIT
B103	LOCKERS	CT	CB	PT	PT	–	PT	ACT–3	–	–
B104	OPEN OFFICE	CPT	VINYL	PT	PT	PT	PT	ACT–1	–	–
B105	OFFICE	CPT	VINYL	PT	PT	PT	PT	ACT–1	–	–
B106	OFFICE	CPT	VINYL	PT	PT	PT	PT	ACT–1	–	–
B107	FILES	CPT	VINYL	PT	PT	PT	PT	ACT–1	–	–
B108	CONFERENCE	CPT	VINYL	PT	PT	PT	PT	ACT–1	–	–
B109	A.V.	CPT	VINYL	PT	PT	PT	PT	GYP. BD.	PT	–
B110	STORAGE	CPT	VINYL	PT	PT	PT	PT	ACT–1	–	–
B111A	HALLWAY	CPT	VINYL	PT	PT	PT	–	ACT–1	–	–
B111B	BREAK	CT	CB	PT	PT	PT	PT	ACT–1	–	–
B112	TOILET	CT	CB	PT	CT	CT	PT	ACT–2	–	–
B113	CORRIDOR	CT	CB	PT	PT	PT	PT	ACT–1	–	–
B114	MEN – SEE INTERIOR ELEVATIONS FOR MORE INFORMATION									
B114A	MEN (VESTIBULE)	CT	CB	PT	PT	PT	PT	ACT–2	–	–
B114B	MEN (RESTROOM)	CT	CB	PT	PT	CT	CT	ACT–2	–	–
B114C	MEN (LOCKER)	CT	CB	PT	PT	PT	PT	ACT–2	–	–
B114D	MEN (SHOWER)	CT	CB	CT	CT	CT	CT	ACT–2	–	PAINTED GYP. BD. CEILINGS IN EACH SHOWER
B114E	MEN (VESTIBULE)	CT	CB	PT	PT	CT	PT	ACT–2	–	–
B115	WOMEN – SEE INTERIOR ELEVATIONS FOR MORE INFORMATION									
B115A	WOMEN (VESTIBULE)	CT	CB	PT	PT	PT	PT	ACT–2	–	–
B115B	WOMEN (RESTROOM)	CT	CB	PT	CT	CT	PT	ACT–2	–	–
B115C	WOMEN (LOCKER)	CT	CB	PT	PT	PT	PT	ACT–2	–	–
B115D	WOMEN (SHOWER)	CT	CB	PT	CT	CT	PT	ACT–2	–	PAINTED GYP. BD. CEILINGS IN EACH SHOWER
B115E	WOMEN (VESTIBULE)	CT	CB	PT	PT	CT	PT	ACT–2	–	–
B116	JANITOR	SC	VINYL	PT	PT	PT	PT	ACT–2	–	–
B117	IT	SC	VINYL	PT	PT	PT	PT	EXPOSED	–	–
B118	POOL EQUIPMENT	SC	VINYL	PT	PT	PT	PT	EXPOSED	–	–
B119	STRETCHING ROOM	RAF	VINYL	PT	PT	PT	PT	ACT–1	–	–
B120	CARDIO	RAF/CT	VINYL/CB	PT	PT	PT	–	ACT–3	–	PAINT GYP. BD. BULKHEADS. SUSPENDED ACT/GRID CLOUD WITH PREFINISHED TRIM ABOVE RUBBER FLOOR
B121	NAUTILUS EQUIPMENT	RAF/CT	VINYL/CB	PT	–	PT	PT	ACT–3	–	PAINT GYP. BD. BULKHEADS. SUSPENDED ACT/GRID CLOUD WITH PREFINISHED TRIM ABOVE RUBBER FLOOR
B122	STORAGE	SC	VINYL	PT	PT	PT	PT	EXPOSED	–	PAINT EXPOSED ROOF STRUCTURAL STEEL / DECK
C100	GYMNASIUM	EXIST	VINYL	PT	PT	PT	PT	EXPOSED	–	PAINT PERIMETER OF CONCRETE FLOOR OUTSIDE OF EXISTING ATHLETIC FLOORING. PAINT ALL EXPOSED PRIMARY AND SECONDAY STEEL FRAMING
C101	FUNCTIONAL FITNESS	EXIST	VINYL	PT	PT	PT	PT	EXPOSED	–	PAINT PERIMETER OF CONCRETE FLOOR OUTSIDE OF EXISTING ATHLETIC FLOORING. PAINT ALL EXPOSED PRIMARY AND SECONDAY STEEL FRAMING
C102	WEIGHT LIFTING AREA	EXIST	VINYL	PT	PT	PT	PT	EXPOSED	–	PAINT PERIMETER OF CONCRETE FLOOR OUTSIDE OF EXISTING ATHLETIC FLOORING. PAINT ALL EXPOSED PRIMARY AND SECONDAY STEEL FRAMING

ABBREVIATIONS:
CPT – CARPET PT – PAINT ACT – ACOUSTICAL CEILING TILE CT– CERAMIC TILE CB – CERAMIC TILE BASE GYP. BD. – GYPSUM BOARD
LP – PVC LINER PANEL SC – SEALED CONCRETE VINYL – VINYL BASE RAF – RUBBER ATHLETIC FLOORING





FRAME TYPES

WINDOW TYPES

DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

REPAIR BUILDING 1122
FITNESS CENTER
FORT MCCOY, WISCONSIN

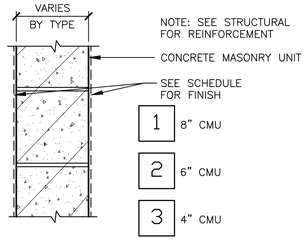
Designed by: SEH
Drawn by: CS
Ckd by: JM
Reviewed by: PF
Submitted by: DPW
Date: 09/15/21
Rev. #
Work Order No 1186
Project Number ES 12003.23

FORT MCCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

SCHEDULES AND TYPES

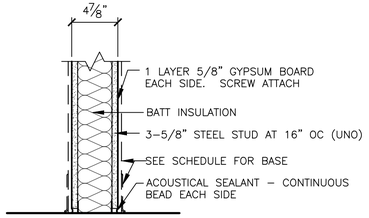
SHEET NUMBER:
A6.0
SHEET 37of 116

Plot date:



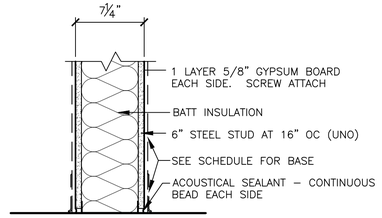
1 2 3 MASONRY – SINGLE WYTHE

STC VARIES ACCORDING TO WIDTH



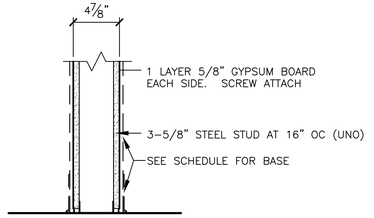
4 DRYWALL – SINGLE LAYER

1 HOUR : UL-U465

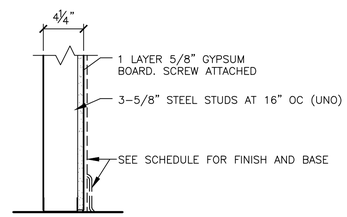


5 DRYWALL – SINGLE LAYER

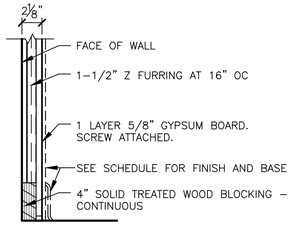
1 HOUR : UL-U465



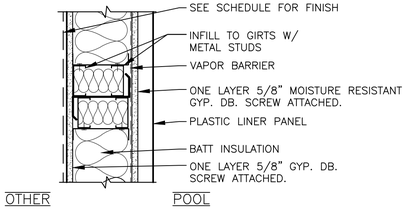
6 DRYWALL – SINGLE LAYER



7 DRYWALL – ONE SIDED



8 DRYWALL – Z FURRING

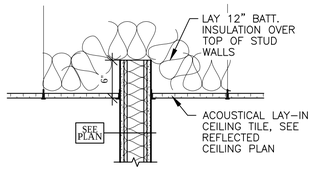


9 LINER PANEL – EXIST WALL

WALL TYPE GENERAL NOTES:

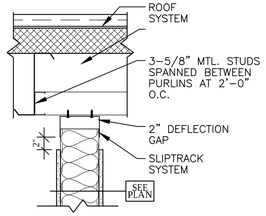
1. DO NOT INSTALL ELECTRICAL DEVICES BACK TO BACK.
2. INSTALL SOLID TREATED WOOD BLOCKING IN WALLS TO SUPPORT ALL ITEMS MOUNTED IN WALL OR ON WALL FACE.
3. SEE WALL SECTIONS FOR EXTERIOR WALL TYPES
4. PROVIDE FIRE RATED GYP. BD. (TYPE 'X') IN LIEU OF STANDARD GYP. BD. IN FIRE RATED CONDITIONS
5. PROVIDE VERTICAL AND HORIZONTAL CONTROL JOINTS IN GYP. BD. SURFACES AT 30'-0" O.C. MAX.
6. IF GYP. BD. IS ONE SIDE ONLY, PROVIDE HORIZONTAL BRIDGING AT 5'-0" O.C. VERTICALLY
7. PROVIDE 20 GAUGE FRAMING AT DOOR JAMBS. STUDS AT JAMBS TO CONTINUE TO UNDERSIDE OF DECK ABOVE
8. 3" DEEP LEGS AT ALL TOP DEFLECTION TRACKS
9. CONTRACTOR TO BE RESPONSIBLE FOR USING THE MINIMUM GAUGE AND SPACING REQUIRED FOR ALL LIGHT GAUGE FRAMING
10. ALL STUD/GYP. BD. INTERIOR WALLS TO BE 6" ABOVE HIGHEST ADJACENT CEILING UNLESS NOTED OTHERWISE ON PLANS
11. PROVIDE MOISTURE RESISTANT GYP. BD. IN LIEU OF STANDARD GYP. BD. IN RESTROOMS WHERE WALL IS TO RECEIVE PAINT FINISH
12. PROVIDE TILE BACKER BOARD IN LIEU OF STANDARD GYP. BD. WHERE WALL IS TO RECEIVE A TILE FINISH
13. ALL MASONRY INTERIOR WALLS TO BE ONE COURSE ABOVE HIGHEST ADJACENT CEILING UNLESS NOTED OTHERWISE ON PLANS.

WALL TYPES



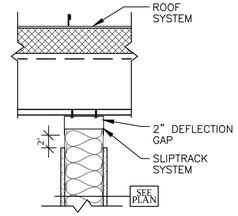
1 TOP OF WALL DETAIL, TYP.

1" = 1'-0"



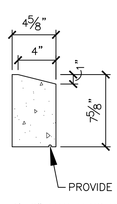
2 METAL STUD SLIP TRACK - PARALLEL TO PURLIN

1" = 1'-0"



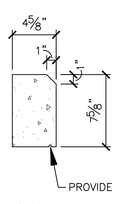
3 METAL STUD SLIP TRACK - PERPENDICULAR TO PURLIN

1" = 1'-0"



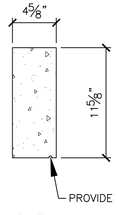
4'-0" MAX LENGTHS

ARCHITECTURAL PRECAST TYPE 1



4'-0" MAX LENGTHS

ARCHITECTURAL PRECAST TYPE 2



4'-0" MAX LENGTHS

ARCHITECTURAL PRECAST TYPE 3

PRECAST TYPES

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: SEH	Ckd by: JM	Date: 09/15/21	
Dwn by: BW	Reviewed by: PF	Work Order No 1186	Project Number ES 12003-23
Submitted by: DPW			

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

WALL TYPES AND DETAILS

SHEET NUMBER:
A6.1
SHEET 38 of 116

Plot date:

GENERAL STRUCTURAL NOTES

THESE NOTES DO NOT REPLACE THE SPECIFICATIONS BUT ARE TO BE READ IN CONJUNCTION WITH THEM. ANY DISCREPANCIES OR CONFLICTS BETWEEN THE TWO SHALL BE BROUGHT TO THE ATTENTION OF THE C.O.R. FOR RESOLUTION. REFER TO SHEET G0.1 FOR PLAN GENERAL NOTES.

THESE DRAWINGS ARE FOR THE REPAIR BULDING 1122 FITNESS CENTER AND NO OTHER USE IS AUTHORIZED.

GOVERNING BUILDING CODE:

1. UFC 3–301–01 STRUCTURAL ENGINEERING
2. 2018 INTERNATIONAL BUILDING CODE
3. ASCE 7–16: DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
4. ACI 318: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
5. AISC STEEL CONSTRUCTION MANUAL

DESIGN LOADS

1. LIVE LOADS:
   - FLOOR: 100 PSF
   - UTILITY ROOM FLOOR: 150 PSF
2. WIND LOADS:
   - WIND SPEED (3 SEC GUST) 115 MPH (RISK CATEGORY II)
   - WIND EXPOSURE C
   - INTERNAL PRESS COEFF. +/–0.18
3. SEISMIC LOADS:
   - BUILDING OCCUPANCY RISK CATEGORY II
   - SITE CLASS: D (ASSUMED)
   - S_s: 0.054
   - S_1: 0.035
   - F_a: 1.6
   - F_v: 2.4
   - S_{DS}: 0.058
   - S_{D1}: 0.057
   - SEISMIC DESIGN CATEGORY A

DESIGN / CONSTRUCTION CRITERIA

1. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS BEFORE CONSTRUCTION. THE CONTRACTOR MUST NOTIFY THE DPW AND ARCHITECT IN WRITING WHEN DISCREPANCIES BETWEEN THE SITE CONDITIONS, DRAWINGS AND SPECIFICATIONS, AND REQUEST CLARIFICATION.
2. ALL MATERIALS, LABOR, AND WORKMANSHIP MUST BE IN ACCORDANCE WITH ACCEPTED STANDARD CONSTRUCTION METHODS AND PRACTICES, MANUFACTURER'S PUBLISHED DATA AND RECOMMENDATIONS, AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, STATUTES, AND CODES. SPECIAL STRUCTURAL INSPECTION IS REQUIRED AS SCHEDULED AND PER IBC CHAPTER 17. CONTRACTOR SHALL COORDINATE WITH GOVERNMENT'S/CONTRACTOR'S TESTING AGENCY.
3. THE CONTRACTOR SHALL COORDINATE ALL ENGINEERING AND WORK DISCIPLINES, VERIFY SIZE AND LOCATION OF ALL OPENINGS, WHETHER REPRESENTED ON DRAWINGS OR NOT, AND AS SHOWN ON DRAWINGS. THE CONTRACTOR MUST NOTIFY DPW AND THE ARCHITECT OF ALL DISCREPANCIES, CONFLICTS, INCONSISTENCIES, AND OTHER PROBLEMS THAT MAY IMPACT STRUCTURAL WORK PRIOR TO THE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY TEMPORARY BRACING, SHORING, GUYING, OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION.
5. JOB SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR & THEIR SUBCONTRACTORS. CONTRACTOR MUST FOLLOW THE EM 385–1–1 SAFETY REQUIREMENTS MANUAL DURING ALL PHASES OF WORK.
6. THE C.O.R. IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES OR PRACTICES. WHERE DRAWINGS AND DETAILS IMPLY THIS, THEY ARE PROVIDED TO SHOW FINAL CONSTRUCTION. IF CONTRACTOR DESIRES TO USE DIFFERENT MEANS AND METHODS THAN IMPLIED BY THESE DRAWINGS, SUBMIT SIMILAR DETAILS FOR REVIEW.
7. STANDARD OR TYPICAL STRUCTURAL DETAILS ARE INTENDED TO ILLUSTRATE DESIGN CONCEPTS AND TO SPECIFY MATERIAL AND REQUIRED PHYSICAL DIMENSIONS MATCHING OR SIMILAR TO THE REFERENCED LOCATIONS IN THE DRAWINGS SET.

FOUNDATIONS

1. CAUTION: EXISTING UNDERGROUND UTILITIES MAY EXIST ANYWHERE ON THE SITE. NOTIFY DIGGER'S HOTLINE (800) 242–8511 PRIOR TO DISTURBING ANY GRADE OR EXCAVATION.
2. AN ASSUMED SOIL BEARING CAPACITY OF 1,500 PSF WAS USED IN THE DESIGN OF THE FOUNDATION WALLS SUPPORTING MASONRY VENEER AND BUILDING ADDITION WALLS. NO GEOTECHNICAL INVESTIGATION HAS BEEN PERFORMED. THE C.O.R. IS NOT RESPONSIBLE FOR THE ACCURACY OR CONTENT OF THE SUBSURFACE SOIL CONDITIONS. THE C.O.R. WILL ARRANGE FOR SOILS OBSERVATION/TESTING DURING CONSTRUCTION TO TEST, INSPECT AND VERIFY ALL ASSUMED SOIL CONDITIONS.
3. FOUNDATION WALLS SHALL BE ADEQUATELY BRACED DURING BACKFILLING AND COMPACTION TO PREVENT MOVEMENT OR STRUCTURAL DAMAGE. BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT BRACING IS IN PLACE AND UNTIL CONCRETE ACHIEVES SUFFICIENT STRENGTH TO RESIST IMPOSED LOADS.
4. WHEN PLACING COMPACTED FILL ADJACENT TO FOUNDATION WALLS, PLACE BACKFILL AT EQUAL RATES ON BOTH SIDES TO PREVENT OVERTURNING OR STRUCTURAL DAMAGE.
5. CONTRACTOR SHALL PROVIDE FOR DEWATERING AT EXCAVATIONS FROM EITHER SURFACE WATER OR SEEPAGE.
6. MOISTURE CONTENT IN SOILS BENEATH BUILDING LOCATIONS SHOULD NOT BE ALLOWED TO CHANGE AFTER FOOTING EXCAVATIONS AND AFTER GRADING FOR SLABS ON GRADE ARE COMPLETED. IF SUBGRADE MATERIALS BECOME DESICCATED OR SOFTENED BY WATER OR OTHER CONDITIONS, REMOVE AND REPLACE WITH ENGINEERED FILL AS RECOMMENDED BY THE C.O.R. DO NOT PLACE CONCRETE ON FROZEN GROUND, NOR ALLOW GROUND BENEATH FOUNDATIONS TO FREEZE. ALL FOUNDATION WORK SHALL BE PLACED ON SUBSTRATE APPROVED AND TESTED BY A GEOTECHNICAL ENGINEER OR TESTING AGENCY AS ARRANGED BY THE C.O.R.
7. DO NOT PLACE BACKFILL ON FROZEN SUBGRADE. DO NOT PLACE FROZEN BACKFILL.
8. SLABS ON GRADE SHALL BE CONSTRUCTED ON A SUBGRADE OF ENGINEERED CLAY FILL COMPACTED TO AT LEAST 96 PERCENT OF ITS MAXIMUM DRY DENSITY (STANDARD PROCTOR) AND 6 INCHES OF AGGREGATE BASE BELOW THE SLAB.
9. GRADING: WHERE NOT SPECIFICALLY SHOWN ON THE PLANS, IT IS INTENDED THAT ALL EXCAVATED AND BACKFILLED AREAS SHALL BE GRADED TO SLOPE AWAY FROM BUILDINGS AND OTHER STRUCTURES.

EXISTING CONSTRUCTION

1. BEFORE PROCEEDING WITH ANY WORK WITHIN OR ADJACENT TO THE EXISTING BUILDINGS, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING STRUCTURAL AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN, PROVIDE, AND ERECT ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.
2. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, ETC. NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE WORK TO THE EXISTING WORK. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE C.O.R.

CONCRETE

1. CONCRETE AND ITS PLACEMENT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING:

   ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE

   ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE

   ACI MCP MANUAL OF CONCRETE PRACTICE
2. AN INDEPENDENT TESTING AGENCY SHALL CAST 4 TEST CYLINDERS FOR EACH 75 CUBIC YARDS OF EACH CONCRETE MIX PLACED OR FOR EACH DAY'S OPERATION, WHICH EVER IS THE LESSER AMOUNT. THE TESTING AGENCY SHALL CAST, CURE, AND TEST THE SPECIMENS IN ACCORDANCE WITH ASTM C31 AND ASTM C39. AIR AND SLUMP SHALL BE TESTED FOR EACH TRUCKLOAD AT THE FINAL LOCATION (TEST AFTER PUMP, NOT AT TRUCK).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF FORM WORK TO COMPLY WITH THE DIMENSIONS INDICATED ON THE PLANS, MAINTAINING PROPER ALIGNMENT DURING CONCRETE POURING OPERATIONS.
4. CONCRETE FOR FOUNDATION WALLS AND EXTERIOR FLATWORK AND STOOP SLABS SHALL HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 DAYS, A MAXIMUM W/C RATIO OF 0.45, WITH 6% +/– 1% AIR ENTRAINMENT, AND A MAXIMUM OF 3–1/2" OF SLUMP BEFORE ADDITION OF ADMIXTURES.
5. CONCRETE FOR INTERIOR SLABS ON GRADE SHALL HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 DAYS, A MINIMUM W/C RATIO OF 0.48, WITH 2% +/– 1% AIR ENTRAINMENT, AND A MAXIMUM OF 3–1/2" OF SLUMP BEFORE ADDITION OF WATER REDUCING ADMIXTURE.
6. THE PRECEDING MINIMUM MIX REQUIREMENTS MAY HAVE WATER–REDUCING ADMIXTURES CONFORMING TO ASTM C494 ADDED TO THE MIX AT MANUFACTURER'S DOSAGE RATES FOR IMPROVED WORKABILITY. NO CHLORIDE CONTAINING ADMIXTURES WILL BE ALLOWED. DO NOT ADD WATER TO CONCRETE AT THE JOBSITE WITHOUT WRITTEN APPROVAL OF THE C.O.R.
7. ALL CONCRETE IS NORMAL WEIGHT UNLESS SPECIFICALLY NOTED OTHERWISE. CEMENT SHALL BE PORTLAND CEMENT TYPE 1 CONFORMING TO ASTM C150. UP TO 25% CEMENT CAN BE REPLACED WITH CLASS "C" FLYASH. AND UP TO 40% WITH GGBFS (50% COMBINED MAX.). AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33. WATER IS TO BE POTABLE.
8. PROTECT CONCRETE IN ACCORDANCE WITH ACI 305 AND ACI 306 FOR HOT WEATHER CONCRETING AND COLD WEATHER CONCRETING RESPECTIVELY. WHEN HEAT IS REQUIRED, CONCRETE SHALL NOT BE EXPOSED TO COMBUSTION PRODUCTS (USE DUCTED HEATER OR GROUND THAW). KEEP PROTECTION IN PLACE MINIMUM 24 HOURS AFTER CESSATION OF HEATING TO PROVIDE GRADUAL COOL–DOWN. CONCRETE BEING PLACED SHALL BE PROTECTED FROM RAIN. IF RAIN FALLS ON CONCRETE BEFORE IT HAS SET, OR WITHIN 3 HOURS OF PLACEMENT IN ANY EVENT, CONTRACTOR SHALL BEAR COST OF TESTING TO PROVE CONCRETE IS UNAFFECTED, AND SHALL REMOVE AND REPLACE AFFECTED CONCRETE TO THE SATISFACTION OF THE C.O.R.
9. CEMENTITIOUS GROUT SHALL BE NON–SHRINK AND NON–METALLIC GROUT. PLACE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND TRIM NEATLY WHERE VISIBLE.
10. COORDINATE WITH OTHER TRADES FOR SLEEVES, CONDUIT, ELECTRICAL GROUNDING WIRES, INSERTS, UNDERGROUND UTILITIES, AND OTHER ITEMS TO BE EMBEDDED INTO CONCRETE AND VERIFY THAT THEY ARE PROPERLY INSTALLED AND SUPPORTED BEFORE CASTING CONCRETE. DIAMETER OF CONDUIT AND PIPE RUNNING WITHIN SLAB OR WALL SHALL NOT EXCEED 1/6 THE SLAB OR WALL THICKNESS AND SHALL BE PLACED IN THE CENTER OF THE MEMBER. PLACEMENT OF SUCH ITEMS SHALL BE COORDINATED WITH REINFORCING PLACEMENT WHERE THEY WOULD OTHERWISE DISPLACE EACH OTHER.
11. NO UNCOATED ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE. ALL ALUMINUM SURFACES IN DIRECT CONTACT WITH CONCRETE SHALL RECEIVE ONE 8–12 MIL DRY FILM THICKNESS BITUMASTIC.
12. UNLESS SHOWN ON DRAWINGS, CONCRETE SHALL BE PLACED WITHOUT CONSTRUCTION JOINTS EXCEPT WHERE SPECIFICALLY SHOWN ON SHOP DRAWINGS APPROVED BY THE C.O.R. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ADDITIONAL OR ALTERNATE CONSTRUCTION JOINT LOCATIONS TO THE C.O.R. FOR APPROVAL.
13. CONCRETE FLOORS: ALL INTERIOR SLABS ON GRADE SHALL BE PLACED OVER 15 MIL VAPOR BARRIER WITH JOINTS WELDED OR LAPPED AND SEALED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. ALL DAMAGE AND PENETRATIONS SHALL BE SEALED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. IF CONCRETE CONTAINS MORE THAN 2 PERCENT ENTRAINED AIR, DELAY START OF FINISHING TO PRECLUDE WEAKENED AIR–RICH PLANE JUST BELOW SURFACE.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CODES: ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCING" ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" MSP2 "CRSI MANUAL OF STANDARD PRACTICE" AWS D1.4 "STRUCTURAL WELDING CODE– REINFORCING STEEL" WRI "WELDED WIRE FABRIC MANUAL OF STANDARD PRACTICE"
2. ALL CONCRETE IS REINFORCED CONCRETE UNLESS SPECIFICALLY CALLED OUT AS UNREINFORCED. REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH SAME STEEL AS IN SIMILAR SECTIONS OR AREAS. ANY DETAILS NOT SHOWN SHALL BE DETAILED PER ACI 315 AND MEET REQUIREMENTS OF ACI 318, CURRENT EDITIONS.
3. ALL REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 OR A706 GRADE 60 STEEL. REINFORCING TO BE WELDED SHALL ONLY BE WELDED TO STRUCTURAL STEEL, NOT OTHER REINFORCING, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. WELDED PLAIN WIRE FABRIC SHALL BE SUPPLIED IN SHEETS, NOT ROLLS, AND CONFORM TO THE REQUIREMENTS OF ASTM A185.
4. CLEAR MINIMUM COVERAGE OF CONCRETE OVER REINFORCING STEEL SHALL BE AS FOLLOWS UNLESS SPECIFICALLY NOTED OTHERWISE:

   CONCRETE PLACED AGAINST EARTH 3"

   ALL OTHER CONCRETE 2"
5. ALL FOOTING DOWELS SHALL BE ACCURATELY POSITIONED AND WIRED IN PLACE BEFORE CASTING FOOTING CONCRETE. WHERE NOT NOTED, PROVIDE AND INSTALL DOWELS OF SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT IN ALL WALLS. POSITION ALL ANCHOR BOLTS WITH TEMPLATES.
6. BAR LAP LENGTHS IN CONCRETE AND 90 DEGREE END HOOKS SHALL BE IN ACCORDANCE WITH THE TABLE BELOW UNLESS NOTED OTHERWISE. THIS TABLE LISTS CLASS 'B' LAPS. INCREASE LAP LENGTH BY 50% FOR EPOXY COATED REINFORCING STEEL WITH C–C BAR SPACING < 6Db AND COVER TO CENTER OF BAR <3Db, OTHERWISE INCREASE BY 20%. FOR MASONRY REINFORCING, USE "WALL TOP BAR" VALUES.

REINF. BAR SIZE	WALL OR SLAB		BEAMS		90 DEGREE END HOOK
	BAR LAP	*TOP BAR	BAR LAP	*TOP BAR	
#3	19 IN	24 IN	28 IN	36 IN	6 IN
#4	25 IN	32 IN	37 IN	48 IN	8 IN
#5	31 IN	40 IN	46 IN	60 IN	10 IN
#6	37 IN	48 IN	56 IN	72 IN	12 IN

* DENOTES TOP BAR SPLICES: HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 12–INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE SPLICE.

7. BARS MARKED CONTINUOUS, CORNER BARS, AND ALL VERTICAL STEEL SHALL BE LAPPED IN ACCORDANCE WITH TABLE ABOVE AT SPLICES AND EMBEDMENTS, UNLESS SHOWN OTHERWISE. SPLICE TOP BARS NEAR MIDSPAN AND SPLICE BOTTOM BARS OVER SUPPORTS, UNLESS NOTED OTHERWISE.
8. BAR SUPPORT ACCESSORIES SHALL BE AS SPECIFIED IN LATEST EDITION OF THE ACI DETAILING HANDBOOK AND THE CONCRETE REINFORCING STEEL INSTITUTE DESIGN HANDBOOK. MAXIMUM ACCESSORY SPACING SHALL BE 4'–0" ON CENTER, AND ALL ACCESSORIES ON EXPOSED SURFACES SHALL HAVE PLASTIC COATED ENDS.

CONCRETE BLOCK MASONRY

1. REINFORCED CONCRETE MASONRY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND SPECIFICATIONS: ACI 530.1– LATEST EDITION, TMS 602– "SPECIFICATIONS FOR MASONRY STRUCTURES"– LATEST EDITION, ACI 530/ASCE 5/ TMS 402– "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"– LATEST EDITION.
2. CONCRETE BLOCK USED IN EXTERIOR WALLS OR LOAD BEARING WALLS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

   MASONRY ASSEMBLY f'm= 2,000 PSI

   CONCRETE MASONRY UNITS: ASTM C90–11a 2,800 PSI

   MORTAR, ASTM C–270–10 TYPE M BELOW GRADE

   TYPE S ABOVE GRADE

   GROUT, ASTM C–476–10 f'g= 3,000 PSI
3. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR ALL MASONRY WALLS DURING CONSTRUCTION.
4. CONCRETE BLOCK SHALL BE LAID IN RUNNING BOND PATTERN TYPICAL UNLESS NOTED OTHERWISE. NO VERTICAL (HEAD) JOINT SHALL BE CONTINUOUS FOR MORE THAN ONE BLOCK HEIGHT. LAY HOLLOW CONCRETE MASONRY UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. BED WEBS IN MORTAR IN STARTING COURSE ON FOOTINGS AND FOUNDATION WALLS AND IN ALL COURSES OF COLUMNS, AND WHERE ADJACENT TO CELLS OR CAVITIES WHICH ARE TO BE REINFORCED OR TO BE FILLED WITH CONCRETE OR GROUT.
5. ALL JOINTS SHALL BE CONCAVE TOOLED JOINTS ABOVE AND BELOW GRADE.
6. MASONRY WALLS SHALL BE REINFORCED WITH HOT DIPPED GALVANIZED TRUSS HORIZONTAL REINFORCING (PER ASTM A153) WITH 9 GAUGE SIDE AND CROSS RODS. REINFORCING SHALL BE CONTINUOUS IN HORIZONTAL JOINTS EVERY OTHER BLOCK COURSE (16" O.C.) IN WALLS, WITH PREFABRICATED CORNER AND TEE SECTIONS.
7. UNLESS NOTED OTHERWISE, CONCRETE BLOCK SHALL BE REINFORCED AS FOLLOWS:
   - VERTICAL REINFORCING IN WALLS SHALL BE A MINIMUM OF (1) #5 BAR AT 4'–0" ON CENTER, AT EACH CORNER, AT EACH DOOR AND WINDOW JAMB, EACH SIDE OF CONTROL JOINTS AND IN THE END VOID OF EACH LENGTH OF WALL. LAP SPLICES FOR MASONRY VERTICAL REINFORCING SHALL BE ACCORDING TO THE TABLE ABOVE, FOR "WALL TOP BAR."
   - CONTINUOUS HORIZONTAL BARS SHALL BE INCLUDED PER SECTION OR DETAIL IN BOND BEAM OR OPTIONAL RUNNING BOND BEAM WHERE NOTED. WHERE NOT DETAILED, USE 2–#5 CONTINUOUS. WHERE BOND BEAMS ARE CONTINUOUS AT CORNERS OF WALLS, SUPPLY CORNER BARS MATCHING SIZE OF HORIZONTAL BARS. ALL BOND BEAM REINFORCING SHALL HAVE STANDARD LAPS OR HOOKED DEVELOPMENT REINFORCING BARS AT WALL CORNERS AND INTERSECTIONS.
9. GROUTING AND REINFORCING: ALL MASONRY, GROUTING, AND REINFORCING WORK SHALL BE PERFORMED BY MASON CRAFTWORKERS WHO HAVE SUCCESSFULLY COMPLETED THE INTERNATIONAL MASONRY INSTITUTE (1–800–IMI–0988) TRAINING COURSE FOR GROUTING AND REINFORCED MASONRY CONSTRUCTION, OR EQUAL.
10. MASONRY BLOCK CELLS WITH VERTICAL REINFORCING AND BOND BEAMS WITH HORIZONTAL REINFORCING SHALL BE GROUTED SOLID WITH A CEMENT GROUT MIX, f'g = 3,000 PSI. MORTAR IS NOT ACCEPTABLE. PROVIDE A CLEANOUT HOLE AT THE BASE OF ALL GROUTED CELLS. ACCOUNT FOR FLY ASH IN GROUT DURING WINTER CONSTRUCTION BY PROTECTING AND HEATING AS REQUIRED TO ASSURE SET AND STRENGTH GAIN.
11. NON–LOAD BEARING CONCRETE BLOCK WALLS SHALL BE ISOLATED FROM ADJACENT STRUCTURAL ELEMENTS WITH VERTICAL 1/2" CONTROL JOINTS AND AT THE TOP OF THE WALL WITH MINIMUM 1/2" AIR SPACE OR COMPRESSIBLE MATERIAL AND SUPPORT PER DETAILS ON THE DRAWINGS.
12. UNLESS OTHERWISE COVERED ON ARCHITECTURAL PLANS OR SPECIFICATIONS, VERTICAL CONTROL JOINTS IN MASONRY CONSTRUCTION SHALL BE 3/8" WIDE, FULL HEIGHT OF WALL. JOINTS SHALL BE SPACED AT A MAXIMUM OF 16'–0" ON CENTER AND COORDINATED WITH THE C.O.R. INSTALL CONTROL JOINTS IN LOCATIONS AS REQUIRED AND AS DIRECTED BY C.O.R..
13. ALL HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS IN MASONRY. ALL BOND BEAM HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.
14. PROVIDE ADDITIONAL VERTICAL REINFORCEMENT AT ENDS OF WALLS, CORNERS, AND OPENINGS. REINFORCING SIZE TO MATCH WALL REINFORCING. WALLS SHALL BE ANCHORED AT BOTTOM BY DOWELS MATCHING WALL VERTICAL REINFORCING (UNLESS NOTED OTHERWISE) FROM FLOOR SLAB BOTTOM.
15. BOND BEAM LINTELS SHALL BE STANDARD HORSECOLLAR TYPE (U SHAPED) BLOCK. CONTINUITY BONDBEAMS MAY BE FLOWTHROUGH BLOCK.

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: SEH | Date: 08/15/21
Drawn by: CS | Ckd by: JM | Rev. #
Reviewed by: PF | Work Order No 1166
Submitted by: DPW | Project Number ES 12003-2J

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MCCOY, WI 54656

GENERAL STRUCTURAL NOTES

SHEET NUMBER:
S0.1
SHEET 39 of 116

Plot date: 14/09/2021

STRUCTURAL METALS

1. ALL STRUCTURAL STEEL WIDE FLANGE BEAMS SHALL BE ASTM A992, GRADE 50 STEEL AND ALL MISCELLANEOUS STEEL, INCLUDING LINTEL ANGLES SHALL BE ASTM A36 STEEL (MIN. Fy = 36 KSI). RECTANGULAR STEEL TUBES (HSS) SHALL BE ASTM A500, GRADE B STEEL (Fy = 46 KSI). PIPE SHALL BE ASTM A53 (Fy = 35 KSI) OR A500 GRADE B (42 KSI). BASE PLATES AND OTHER SHAPES SHALL BE ASTM A36 (36 KSI). SPLICING OR MODIFICATION OF MEMBERS IN THE FIELD IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL OF THE C.O.R.
2. FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
3. UNLESS GALVANIZED, ALL STEEL SHALL RECEIVE A THREE COAT PAINT SYSTEM: ZINC–RICH PRIMER, EPOXY, POLYURETHANE. REFER TO SPECIFICATION MANUAL.
4. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER USING E70 ELECTRODES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AWS D1.1 AND D1.2 "STRUCTURAL WELDING CODE" AND VISUALLY INSPECTED. FULL–PEN WELDS SHALL ALSO BE INSPECTED BY NDT METHODS SUCH AS ULTRASONIC, MAG PARTICLE, OR DYE PEN.
5. ALL FIELD WELDED CONNECTIONS SHALL BE CHIPPED, GROUND WHERE REQUIRED, WIRE BRUSH CLEANED AND PAINTED TO MATCH THE PAINT SYSTEM.
6. ALL BOLTS NOT OTHERWISE SPECIFIED SHALL BE 3/4" DIAMETER HIGH STRENGTH (ASTM A325–N). ALL BOLTS SHALL BE FULLY PRETENSIONED. ANY NON–TWISTOFF BOLTS SHALL HAVE 10 PERCENT CHECKED WITH A TORQUE WRENCH BY THE SPECIAL INSPECTOR. ALL BEAM CONNECTIONS SHALL BE DESIGNED PER THE AISC MANUAL OF STEEL CONSTRUCTION "FRAMED BEAM CONNECTIONS" FOR THE INDICATED REACTIONS OR AT LEAST 0.60 x BEAM TOTAL SHEAR CAPACITY SHOWN IN THE ALLOWABLE UNIFORM LOAD TABLES, WHICHEVER IS GREATER. ALL CONNECTIONS MUST BE TWO BOLT MINIMUM. ALL COPES SHALL BE MADE WITH A 1" MINIMUM RADIUS.
7. WHERE HEADED RODS ARE NOTED OR SPECIFIED, BENT RODS SHALL NOT BE FURNISHED.
8. METAL STAIRWAYS, PLATFORMS AND GRATES SHALL BE PROVIDED/ CONSTRUCTED WITH ADEQUATE DESIGN CHARACTERISTICS (100 PSF LIVE LOAD CAPACITY U.N.O.) AND STRUCTURAL CONFIGURATIONS IN ACCORDANCE WITH THE FABRICATOR'S SHOP DRAWINGS AS APPROVED BY THE C.O.R. ALL STAIRWAYS, PLATFORMS AND GRATES SHALL SATISFY ALL REQUIREMENTS OF THE PROJECT SPECIFICATIONS. ALL STAIR RUNS LONGER THAN 10 FEET SHALL HAVE DIAGONAL BRACING FASTENED TO THE BOTTOM FLANGES OF THE STRINGERS, U.N.O.
9. ALL EXPOSED STEEL SHALL BE PAINTED PER ARCHITECTURAL SPECIFICATION.

SHOP DRAWING SUBMITTAL & REVIEW

1. GC SHALL FOLLOW THE REQUIREMENTS IN SPECIFICATION SECTION 01300 FOR ALL SUBMITTALS.
2. PRIOR TO SUBMITTAL OF A SHOP DRAWING OR ANY RELATED MATERIAL TO THE C.O.R., THE GC SHALL:
   - REVIEW EACH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE GC.
   - REVIEW AND APPROVE EACH SUBMISSION.
   - STAMP EACH SUBMISSION AS APPROVED.
3. GC SHALL FOLLOW THE SUBMISSION REQUIREMENTS TO AVOID UNNECESSARY DELAYS IN WORK.
4. GC SHALL PREPARE A SUBMITTAL REGISTER LISTING ALL SUBMITTAL ITEMS, AND SUBMIT THE REGISTER TO THE CONTRACTING OFFICER FOR ACCEPTANCE.
5. SHOP DRAWINGS AND RELATED MATERIAL (IF ANY) REQUIRED ARE LISTED BELOW. SUBMITTALS SHALL INCLUDE, BUT ARE NOT LIMITED TO:
   - CONCRETE MIX DESIGNS AND MATERIAL CERTIFICATES INCLUDING ADMIXTURES AND COMPOUNDS APPLIED TO THE CONCRETE AFTER PLACEMENT.
   - AGGREGATE TESTS AND CONCRETE TEST HISTORY FOR EACH MIX DESIGN, WITH THE SUBMISSION OF CONCRETE MIX DESIGNS.
   - REINFORCING STEEL SHOP DRAWINGS INCLUDING ERECTION DRAWINGS AND BENDING DETAILS. (BAR LIST WILL NOT BE REVIEWED FOR CORRECT QUANTITIES).
   - ELEVATIONS OF ALL CONCRETE WALLS WITH FOOTING STEPS OR OTHER ELEVATION CHANGES, AT A SCALE NO SMALLER THAN 1/8" = 1'–0" SHOWING ALL REQUIRED REINFORCING.
   - ELEVATIONS OF ALL REINFORCED CONCRETE MASONRY WALLS AND ALL CONCRETE WALLS WITH FOOTING STEPS OR OTHER ELEVATION CHANGES, AT A SCALE NO SMALLER THAN 1/8" = 1'–0" SHOWING ALL REQUIRED REINFORCING.

METAL DECK

1. METAL DECK SHALL SPAN A MINIMUM OF TWO CONTINUOUS SPANS. DECK DESIGN IS BASED ON PRODUCTS OF VULCRAFT CORPORATION, AND ANY SUBSTITUTIONS SHALL MEET THAT STANDARD. WHERE NOT EXPLICITLY NOTED, ROOF DECK IS WIDE RIB.
2. OPENINGS THROUGH DECK WHICH CUT ONE FLUTE NEED NOT BE REINFORCED. OPENINGS WHICH CUT TWO FLUTES SHALL BE REINFORCED WITH A HOT ROLLED ANGLE THE SIZE OF THE DECK DEPTH, MINIMUM 1/8 INCH THICK, EXTENDING 12 INCHES PAST THE OPENING, ON EACH SIDE OF THE OPENING. OPENINGS WHICH CUT MORE THAN TWO FLUTES SHALL BE FRAMED TO SURROUNDING SUPPORTS WITH FRAMES AS DETAILED IN THE DRAWINGS.
3. MANUFACTURER SHALL BE A MEMBER OF THE STEEL DECK INSTITUTE (SDI). DETAIL, MANUFACTURE, AND INSTALL DECK AND ACCESSORIES IN ACCORDANCE WITH SDI AND OSHA.
4. WELDING AND WELDER QUALIFICATIONS SHALL BE IN ACCORDANCE WITH AWS D1.3.
5. DECK SHALL BE FASTENED TO UNDERLYING FRAMING WITH 5/8 INCH DIAMETER PUDDLE WELDS AT SPACING AS INDICATED ON THE DRAWINGS, UNLESS HEADED STUDS ARE TO BE APPLIED. CONTRACTOR MAY SUBMIT SHOT PINS (PAF) FOR APPROVAL AS A SUBSTITUTE FOR PUDDLE WELDS. SIDELAP EDGES SHALL BE JOINED WITH MINIMUM OF ONE #10 SCREW IN EACH DECK SPAN, UNLESS MORE SCREWS ARE INDICATED IN THE DRAWINGS.
6. WHERE SPRAY–ON FIREPROOFING IS REQUIRED, THE GENERAL CONTRACTOR SHALL VERIFY THAT THE DECK FINISH IS COMPATIBLE WITH FIREPROOFING. COORDINATE WITH ARCHITECT.

LIGHT GAUGE METAL FRAMING

1. ALL LIGHT GAUGE MATERIAL INCLUDING, BUT NOT LIMITED TO STUDS, HEADERS, JAMBS, AND ANCHORAGE SHALL MEET THE FOLLOWING CRITERIA:
2. STUDS SHALL BE MINIMUM 600 S162–54 (6□–16 GAUGE) OR 800 S162–54 (8"–16 GAUGE) STUDS AT 16□ O.C.
3. STUDS SHALL BE COLD ROLLED STEEL, GALVANIZED, C SHAPE WITH MINIMUM 1 5/8" FLANGE AND MINIMUM 1/2" RETURN. THEY ARE TO BE PUNCHED FOR UTILITY ACCESS AND GALVANIZED TO G60 COATING PER ASTM 525.
4. AT ALL OPENINGS PROVIDE A MINIMUM TWO STUDS FULL WALL HEIGHT EACH SIDE OF OPENING AND A MINIMUM ONE ADDITIONAL STUD FOR EACH SIDE FOR LINTEL BEARING.
5. ANCHOR BOTTOM TRACK TO CONCRETE WITH MINIMUM 5/32x1–1/4" POWER DRIVEN FASTENERS AT 16" O.C.
6. TOP AND BOTTOM TRACKS SHALL BE COLD ROLLED OR BREAK FORMED STEEL, GALVANIZED U SHAPED AND MINIMUM 16 GAUGE AND AS NOTED ON THE DRAWINGS.
7. LIGHT GAUGE METAL FRAMING FASTENERS SHALL BE A MINIMUM #10 SELF–DRILLING SHEET METAL SCREWS, 16 THREADS PER INCH, WITH LOW PROFILE HEAD. PROVIDE A MINIMUM OF TWO SCREWS PER CONNECTION UNLESS NOTED OTHERWISE.
8. ALL FRAMING COMPONENTS SHALL BE SQUARELY CUT FOR ATTACHMENT TO PERPENDICULAR MEMBERS. STUD ENDS MUST SEAT TIGHTLY INTO TRACKS FOR ALL BEARING APPLICATIONS.
9. AT ALL WALL ELEMENTS, PROVIDE 1 1/2" – 16 GAUGE HORIZONTAL CHANNEL BRIDGING TO PREVENT STUD ROTATION. SPACE BRIDGING AT 4'–0" O.C.

WALL STUD DEFLECTION CRITERIA:

10. FOR EXTERIOR WALL STUDS PROVIDING LATERAL SUPPORT FOR BRICK VENEER, PROVIDE L/600.
11. THE LIGHT GAUGE SUPPLIER SHALL SUBMIT CERTIFIED SHOP DRAWINGS AND DESIGN CALCULATIONS PREPARED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WISCONSIN. SEE PROJECT SPECIFICATION MANUAL FOR ADDITIONAL SUBMITTAL REQUIREMENTS.
12. ALL LIGHT GAUGE DESIGNATIONS ARE IN ACCORDANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA):

    12 GAUGE 97 MILS
    14 GAUGE 68 MILS
    16 GAUGE 54 MILS
    18 GAUGE 43 MILS
    20 GAUGE 33 MILS
    22 GAUGE 27 MILS

    REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR SIZE, MINIMUM GAUGE, EXTENT AND LOCATION OF INTERIOR NON–BEARING LIGHT GAUGE FRAMING NOT SHOWN ON THE STRUCTURAL DRAWINGS. INTERIOR LIGHT GAUGE FRAMING IS TO BE DESIGNED FOR 5 PSF LATERAL PRESSURE BY THE LIGHT GAUGE SUPPLIER.
13. TEMPORARY BRACING SHALL BE FURNISHED BY THE LIGHT GAUGE SUPPLIER AND FRAMING INSTALLER AND MAINTAINED UNTIL PERMANENT SYSTEMS PROVIDING LATERAL STABILITY ARE IN PLACE.
14. WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY (AWS) □STRUCTURAL WELDING CODE –– SHEET STEEL, D1.3 –– CURRENT EDITION.□ WELDERS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.3 AND SHALL BE EXPERIENCE IN LIGHT GAUGE WELDING.
15. ALL LIGHT GAUGE MATERIAL TO BE WELDED MUST BE NOMINAL 16 GAUGE OR THICKER.
16. TOUCH UP ALL LIGHT GAUGE MATERIAL AT WELDS WITH ZINC–RICH PAINT.
17. SPLICES IN STUDS AND HEADERS ARE NOT PERMITTED, UNLESS APPROVED IN WRITING BY THE C.O.R.
18. FRAMING COMPONENTS MAY BE PRE–ASSEMBLED INTO PANELS PRIOR TO ERECTING. PREFABRICATED PANELS SHALL BE SQUARE, WITH COMPONENTS ATTACHED IN A MANNER THAT PREVENTS RACKING.

REQUIRED INSPECTION

1. OWNER IS RESPONSIBLE FOR ARRANGING AND PAYING FOR ALL MATERIAL TESTING ACCORDING TO THE TABLE BELOW. REQUIRED INSPECTION OF THE CONSTRUCTION IS TO BE PERFORMED ACCORDING TO THE TABLE BELOW; CONTRACTOR SHALL COOPERATE AND COORDINATE WITH INSPECTOR AND C.O.R.

DESCRIPTION	TESTING YES	TESTING NO	INSPECTING YES	INSPECTING NO	NA
1 METAL CONSTRUCTION					
WELDING					•
DETAILS: BRACING, LOCATIONS, ETC.					•
BOLTING					•
2 CONCRETE CONSTRUCTION					
CONCRETE	•		•		
PRECAST/PRESTRESSED CONCRETE					•
REINFORCEMENT: SIZE AND SPACING		•	•		
BOLTS INSTALLED IN CONCRETE			•		
3 MASONRY CONSTRUCTION					
REINFORCEMENT: SIZE AND SPACING		•	•		
PRISMS		•		•	
DETAILS: GROUTING, LINTELS, ETC.		•	•		
4 WOOD CONSTRUCTION					•
5 GRADING, EXCAVATION AND FILLING	•		•		
6 PILING, PIERS AND CAISSONS					•
7 SPRAY–APPLIED FIREPROOFING					•
8 EXTERIOR INSULATION AND FINISH SYSTEM					•
9 SPECIAL CASES					•

A. INSPECTION OF REINFORCING STEEL AND ANCHOR ROD PLACEMENT SHALL BE PERFORMED PRIOR TO CONCRETE PLACEMENT OR DURING ANCHOR ROD INSTALLATION FOR ADHESIVE ANCHORS.
B. CONTINUOUS INSPECTION DURING CONCRETE PLACEMENT IS REQUIRED.
C. CONDUCT CONCRETE SLUMP TESTS IN ACCORDANCE WITH ASTM C143.
D. OBTAIN SET OF FOUR (4) CONCRETE TEST CYLINDERS EACH TIME CONCRETE IS PLACED. MAKE TEST CYLINDERS IN ACCORDANCE WITH ASTM C39.
E. IT IS ASSUMED THAT SHOP WELDING WILL BE PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK. G/C SHALL SUBMIT FABRICATOR DOCUMENTS, STANDARDS, AND PROCEDURES.
F. REPORTS OF INSPECTIONS SHALL BE PROVIDED, AT THE FREQUENCY NOTED ABOVE, TO THE C.O.R. AND CONTRACTOR BY THE FIRM CONTRACTED TO PERFORM INSPECTIONS.

DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

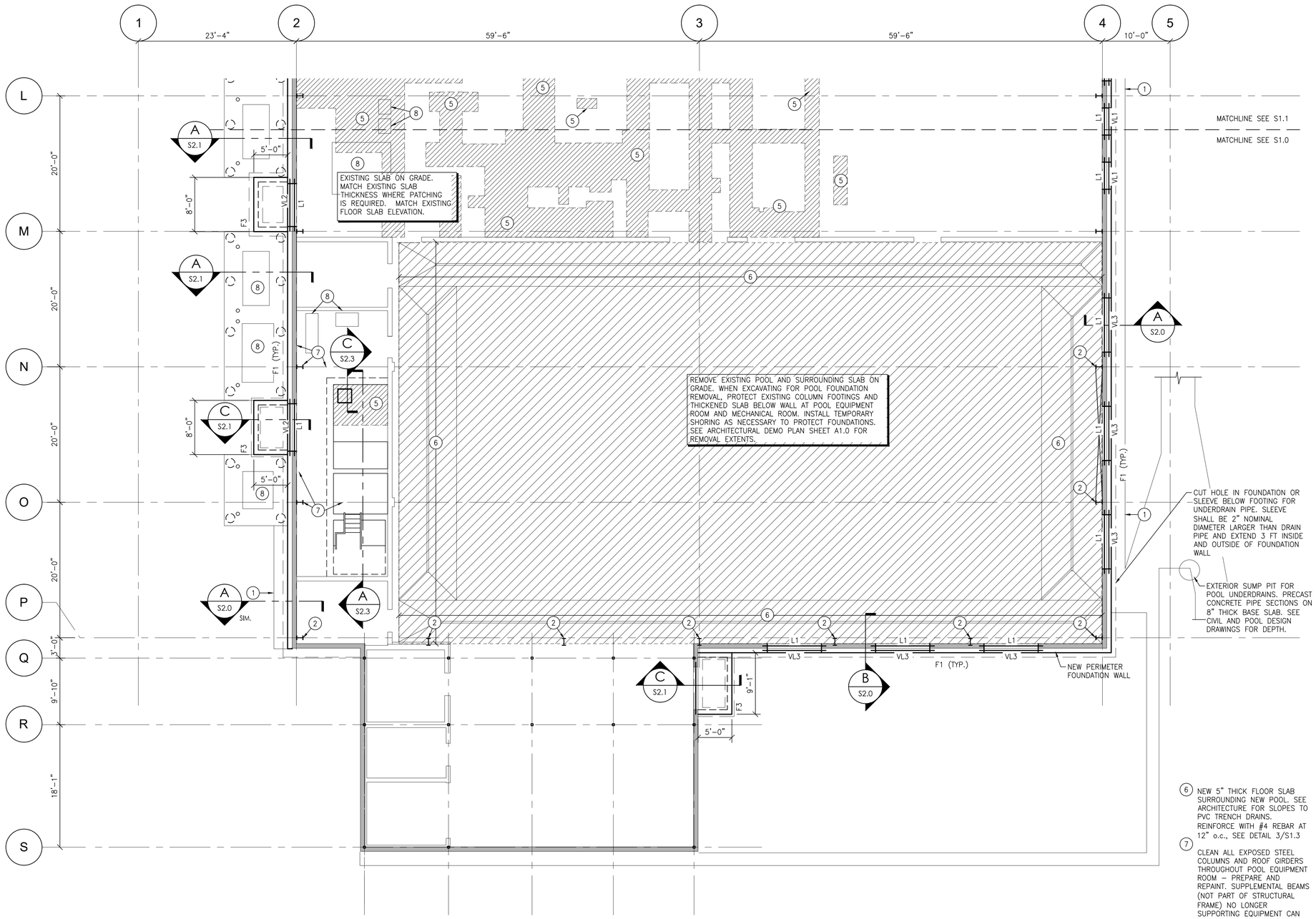
FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

GENERAL STRUCTURAL NOTES

Designed by: SEH	Date: 08/15/21		
Dwn by: CS	Ckd by: JM	Rev. #	
Reviewed by: PF		Work Order No 1186	
Submitted by: DPW		Project Number ES 72003-21	

SHEET NUMBER:
S0.2
SHEET 40 of 116

Plot date: 14/09/2021



1 FOUNDATION PLAN – AREA 'A'

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

FOUNDATION PLAN NOTES:

(TYPICAL UNLESS NOTED OTHERWISE)

1. FINISH FLOOR ELEVATION = 100'-0" (REFERENCE)
2. CONSTRUCTION JOINTS SHALL BE PLACED IN LOCATIONS DESIGNATED FOR CONTRACTION JOINTS ONLY. WRITTEN APPROVAL OF THE ENGINEER OF RECORD IS REQUIRED FOR CONSTRUCTION JOINTS IN OTHER LOCATIONS.
3. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
4. VERIFY ALL SIZES OF OPENING WITH ARCHITECTURAL.
5. DESIGN ALLOWABLE SOIL BEARING CAPACITY: 1,500 psf (ASSUMED)
6. TSE= TOP OF SLAB ELEVATION
   TWE= TOP OF WALL ELEVATION
   VLE= VENEER LEDGE ELEVATION
7. CONTRACTOR TO IMMEDIATELY CONTACT STRUCTURAL ENGINEER FOR FIELD VERIFICATION IF EXISTING CONDITIONS VARY FROM THOSE STATED IN THESE DOCUMENTS.
8. SLAB REINFORCING:
   NEW 6" S.O.G.: #4 REBAR AT 16" o.c. EACH WAY
   NEW 5" S.O.G.: #3 REBAR AT 24" o.c. EACH WAY
9. SEE ARCHITECTURE DRAWINGS FOR LOCATIONS OF BOLLARD REMOVAL AND SLAB REMOVAL.
10. ALL NEW MASONRY WALLS SHALL HAVE NEW THICKENED SLAB BELOW. DEMO EXISTING SLAB AND CONSTRUCT NEW THICKENED SLAB PER DETAIL H/S2.3. VERIFY ALL MASONRY WALL LOCATIONS WITH ARCHITECTURAL DRAWINGS.

VENEER LINTEL SCHEDULE

MARK	SIZE OR DESIGNATION	NOTES
VL1	L 3½ x 3½ x 5/16	
VL2	L 5 x 3½ x 5/16	
VL3	L 6 x 4 x ⅜	

NOTES:
1. EACH LINTEL SHALL BEAR 8" MIN. ON VENEER EA. SIDE OF OPENING.

LINTEL SCHEDULE

MARK	SIZE OR DESIGNATION	NOTES
L1	8" DEEP (1 COURSE) x 8" WIDE CMU BOND BEAM LINTEL (2) #5 REBAR CONT. AT BOTTOM	NOTES 1 TO 4
L2	W8x18 WITH 16" x 5/16" THICK BOTTOM PLATE	7"x7"x⅜" BEARING PLATE EA. END

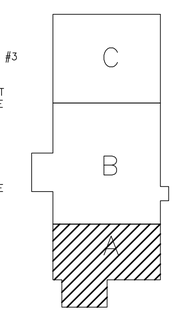
NOTES:
1. EACH MASONRY LINTEL SHALL BEAR 8" MIN. ON CMU WALL –CONTINUE HORIZ. REINF. TO END OF BEARING.
2. GROUT AND REINFORCE 2 VERTICAL CORES EACH SIDE OF ALL MASONRY AND STEEL LINTELS U.N.O.
3. BOTTOM REBAR TO BE MAINTAINED 2" MIN. CLEAR FROM BOTTOM OF BOND BEAM LINTEL OR GREATER IF REQUIRED FOR FIRE RESISTIVE CONSTRUCTION.
4. SHORE CMU LINTELS FOR ENTIRE LENGTH UNTIL BOND BEAMS ARE IN PLACE AND GROUT IS CURED. ALL BOND BEAMS LINTELS SHALL BE CONSTRUCTED OF 8" HIGH BLOCK IN RUNNING BOND. USE POUR-THRU BOND BEAM BLOCK FOR UPPER COURSE(S).

FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F1	CONT. 1'-4"x 1'-8" DEEP	(4) #5 CONTINUOUS DOWEL BARS AS DETAILED FOOTING DOWELED TO EXISTING GRADE BEAM AND POURED OVER EXISTING PAD FOOTINGS
F2	CONT. 2'-0"x 1'-0" DEEP	(2) CONT. #5 REBAR, BOTTOM
F3	CONT. 1'-4" x 10" DEEP	(2) CONT. #4 REBAR, BOTTOM
F4	CONT. 3'-0" WIDE x 4'-0" LONG x 1'-8" DEEP	#5 REBAR AT 12" o.c. EA. WAY, TOP AND BOTTOM
F5	CONT. 2'-4"x 1'-0" DEEP	(3) CONT. #5 REBAR, BOTTOM

KEYNOTES

6. NEW 5" THICK FLOOR SLAB SURROUNDING NEW POOL. SEE ARCHITECTURE FOR SLOPES TO PVC TRENCH DRAINS. REINFORCE WITH #4 REBAR AT 12" o.c., SEE DETAIL 3/S1.3
7. CLEAN ALL EXPOSED STEEL COLUMNS AND ROOF GIRDERS THROUGHOUT POOL EQUIPMENT ROOM – PREPARE AND REPAINT. SUPPLEMENTAL BEAMS (NOT PART OF STRUCTURAL FRAME) NO LONGER SUPPORTING EQUIPMENT CAN BE REMOVED INSTEAD OF CLEANING AND PAINTING.
8. EQUIPMENT PAD – SEE DETAIL J/S2.3 – VERIFY SIZE AND LOCATION WITH FINAL EQUIPMENT SELECTION AND MECHANICAL DRAWINGS.
1. 2'-0" WIDE x 5" THICK CONCRETE MAINTENANCE STRIP AROUND PERIMETER OF BUILDING. REINFORCE WITH (2) CONTINUOUS #3 EPOXY COATED REBAR.
2. CLEAN COLUMNS AND PREPARE AND REPAINT ACCORDING TO SPECIFICATIONS. WHERE BASE PLATE SCALING OR SECTION LOSS IS DISCOVERED OR WHERE RUST CANNOT BE REMOVED ENTIRELY, REMOVE AND REPLACE BASE PLATE. SEE DETAILS F TO H ON SHEET S2.1.
3. CUT DOWN EXISTING WALL BY 8" AND PLACE NEW SLAB ON GRADE OVER THE TOP.
4. LIGHT GAUGE BOX HEADER DESIGNED FOR LATERAL WIND LOAD AND WALL WEIGHT BY LIGHT GAUGE SUPPLIER.
5. SEE ARCHITECTURAL/PLUMBING/ELECTRICAL PLANS FOR EXTENT OF SLAB DEMOLITION. REPLACE SLAB WITH NEW SLAB ON GRADE MATCHING THICKNESS OF EXISTING SLAB. REINFORCE WITH #3 REBAR AT 12" o.c. EA. WAY CENTERED IN SLAB. CONTRACTOR OPTION TO REPLACE GREATER SLAB EXTENTS.



KEY PLAN

DPW
FORT MCCOY, WI

MOD #	DATE	MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Date: 09/15/21
Rev. #
Work Order No 11686
Project Number ES 12003-23

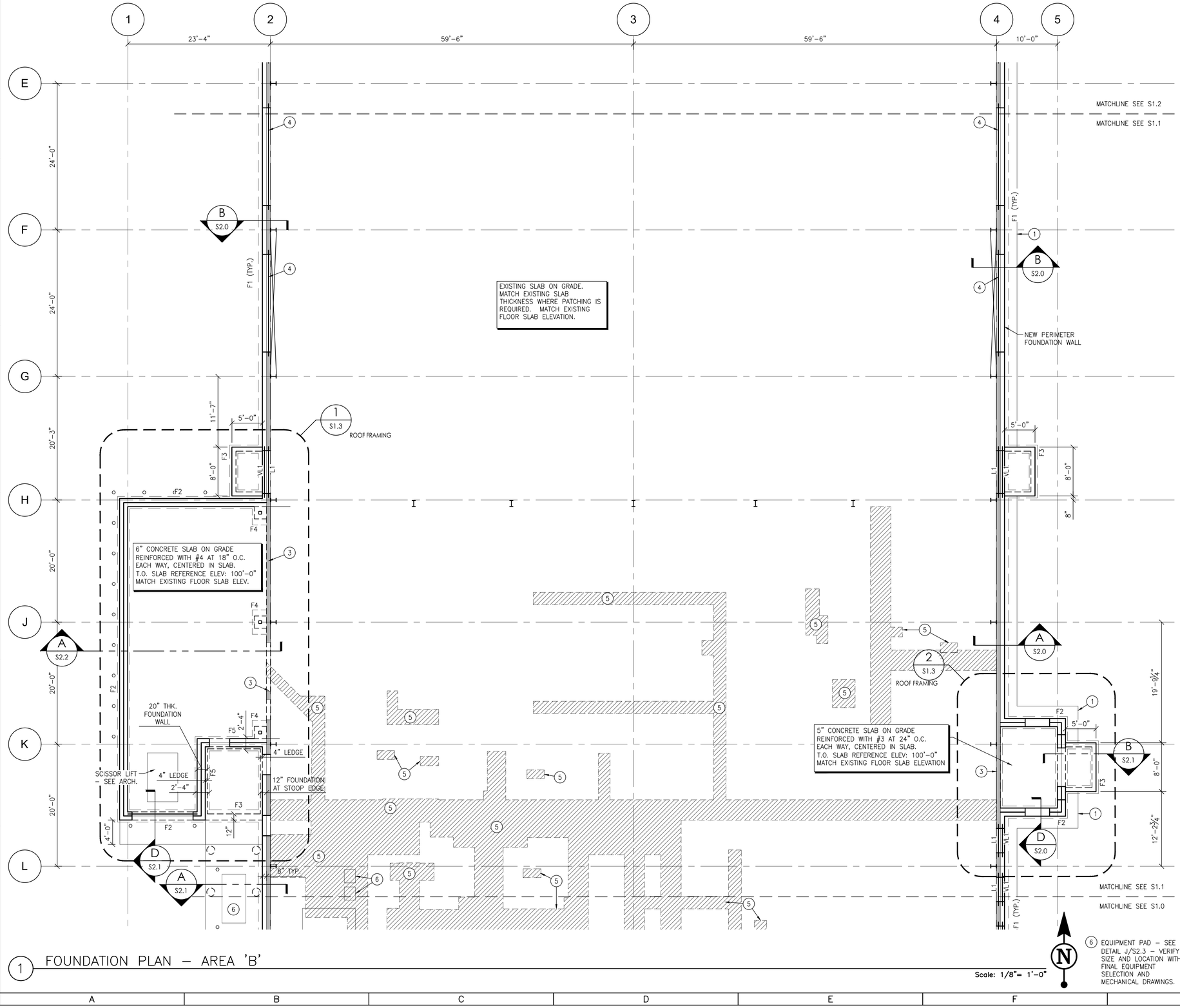
Designed by: SEH
Dwn by: NSIEMS
Ckd by: JM
Reviewed by: PF
Submitted by: DPW

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MCCOY, WI 54656

FOUNDATION PLAN - AREA 'A'

SHEET NUMBER:
S1.0
SHEET 41 of 116

Plot date: 14/09/2021



1 FOUNDATION PLAN – AREA 'B'

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

FOUNDATION PLAN NOTES:

(TYPICAL UNLESS NOTED OTHERWISE)

1. FINISH FLOOR ELEVATION = 100'–0" (REFERENCE)
2. CONSTRUCTION JOINTS SHALL BE PLACED IN LOCATIONS DESIGNATED FOR CONTRACTION JOINTS ONLY. WRITTEN APPROVAL OF THE ENGINEER OF RECORD IS REQUIRED FOR CONSTRUCTION JOINTS IN OTHER LOCATIONS.
3. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
4. VERIFY ALL SIZES OF OPENING WITH ARCHITECTURAL.
5. DESIGN ALLOWABLE SOIL BEARING CAPACITY: 1,500 psf (ASSUMED)
6. TSE= TOP OF SLAB ELEVATION
   TWE= TOP OF WALL ELEVATION
   VLE= VENEER LEDGE ELEVATION
7. CONTRACTOR TO IMMEDIATELY CONTACT STRUCTURAL ENGINEER FOR FIELD VERIFICATION IF EXISTING CONDITIONS VARY FROM THOSE STATED IN THESE DOCUMENTS.
8. SLAB REINFORCING:
   NEW 6" S.O.G.: #4 REBAR AT 16" o.c. EACH WAY
   NEW 5" S.O.G.: #3 REBAR AT 24" o.c. EACH WAY
9. SEE ARCHITECTURE DRAWINGS FOR LOCATIONS OF BOLLARD REMOVAL AND SLAB REMOVAL.
10. ALL NEW MASONRY WALLS SHALL HAVE NEW THICKENED SLAB BELOW. DEMO EXISTING SLAB AND CONSTRUCT NEW THICKENED SLAB PER DETAIL H/S2.3. VERIFY ALL MASONRY WALL LOCATIONS WITH ARCHITECTURAL DRAWINGS.

VENEER LINTEL SCHEDULE

MARK	SIZE OR DESIGNATION	NOTES
VL1	L 3½ x 3½ x 5/16	
VL2	L 5 x 3½ x 5/16	
VL3	L 6 x 4 x ⅜	

NOTES:
1. EACH LINTEL SHALL BEAR 8" MIN. ON VENEER EA. SIDE OF OPENING.

LINTEL SCHEDULE

MARK	SIZE OR DESIGNATION	NOTES
L1	8" DEEP (1 COURSE) x 8" WIDE CMU BOND BEAM LINTEL (2) #5 REBAR CONT. AT BOTTOM	NOTES 1 TO 4
L2	W8x18 WITH 16" x 5/16" THICK BOTTOM PLATE	7"x7"x⅜" BEARING PLATE EA. END

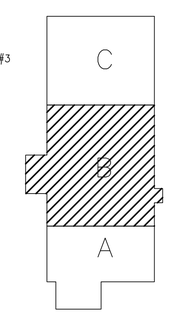
NOTES:
1. EACH MASONRY LINTEL SHALL BEAR 8" MIN. ON CMU WALL –CONTINUE HORIZ. REINF. TO END OF BEARING.
2. GROUT AND REINFORCE 2 VERTICAL CORES EACH SIDE OF ALL MASONRY AND STEEL LINTELS U.N.O.
3. BOTTOM REBAR TO BE MAINTAINED 2" MIN. CLEAR FROM BOTTOM OF BOND BEAM LINTEL OR GREATER IF REQUIRED FOR FIRE RESISTIVE CONSTRUCTION.
4. SHORE CMU LINTELS FOR ENTIRE LENGTH UNTIL BOND BEAMS ARE IN PLACE AND GROUT IS CURED. ALL BOND BEAMS LINTELS SHALL BE CONSTRUCTED OF 8" HIGH BLOCK IN RUNNING BOND. USE POUR-THRU BOND BEAM BLOCK FOR UPPER COURSE(S).

FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F1	CONT. 1'-4"x 1'-8" DEEP	(4) #5 CONTINUOUS DOWEL BARS AS DETAILED FOOTING DOWELED TO EXISTING GRADE BEAM AND POURED OVER EXISTING PAD FOOTINGS
F2	CONT. 2'-0"x 1'-0" DEEP	(2) CONT. #5 REBAR, BOTTOM
F3	CONT. 1'-4" x 10" DEEP	(2) CONT. #4 REBAR, BOTTOM
F4	CONT. 3'-0" WIDE x 4'-0" LONG x 1'-8" DEEP	#5 REBAR AT 12" o.c. EA. WAY, TOP AND BOTTOM
F5	CONT. 2'-4"x 1'-0" DEEP	(3) CONT. #5 REBAR, BOTTOM

KEYNOTES

1. 2'–0" WIDE x 5" THICK CONCRETE MAINTENANCE STRIP AROUND PERIMETER OF BUILDING. REINFORCE WITH (2) CONTINUOUS #3 EPOXY COATED REBAR.
2. CLEAN COLUMNS AND PREPARE AND REPAINT ACCORDING TO SPECIFICATIONS. WHERE BASE PLATE SCALING OR SECTION LOSS IS DISCOVERED OR WHERE RUST CANNOT BE REMOVED ENTIRELY, REMOVE AND REPLACE BASE PLATE. SEE DETAILS F TO H ON SHEET S2.1.
3. CUT DOWN EXISTING WALL BY 8" AND PLACE NEW SLAB ON GRADE OVER THE TOP.
4. LIGHT GAUGE BOX HEADER DESIGNED FOR LATERAL WIND LOAD AND WALL WEIGHT BY LIGHT GAUGE SUPPLIER.
5. SEE ARCHITECTURAL/PLUMBING/ELECTRICAL PLANS FOR EXTENT OF SLAB DEMOLITION. REPLACE SLAB WITH NEW SLAB ON GRADE MATCHING THICKNESS OF EXISTING SLAB. REINFORCE WITH #3 REBAR AT 12" o.c. EA. WAY CENTERED IN SLAB. CONTRACTOR OPTION TO REPLACE GREATER SLAB EXTENTS.
6. EQUIPMENT PAD – SEE DETAIL J/S2.3 – VERIFY SIZE AND LOCATION WITH FINAL EQUIPMENT SELECTION AND MECHANICAL DRAWINGS.



KEY PLAN

DPW
FORT MCCOY, WI

MARK	DATE	MOD REQUEST # - DESCRIPTION	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

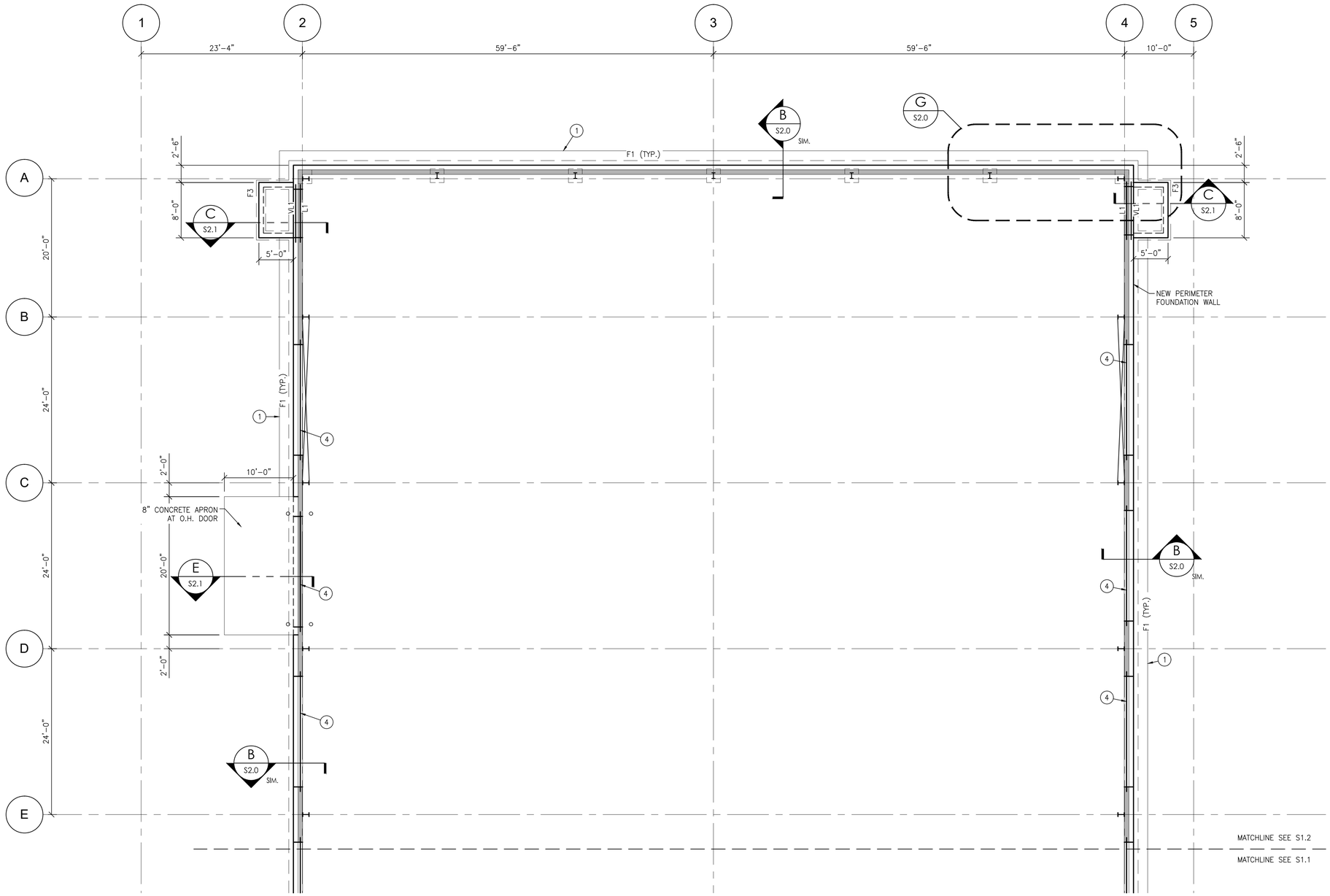
Designed by: SEH	Cad by: JM	Date: 08/15/21	
Drwn By: NSEARS		Rev. #	
Reviewed by: PF		Work Order No 1168	
Submitted by: DPW		Project Number ES 12003-2J	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 81ST AVE.
FORT MC COY, WI 54656

FOUNDATION PLAN - AREA 'B'

SHEET NUMBER:
S1.1
SHEET 42 of 116

Plot date: 14/09/2021



FOUNDATION PLAN NOTES:

(TYPICAL UNLESS NOTED OTHERWISE)

1. FINISH FLOOR ELEVATION = 100'–0" (REFERENCE)
2. CONSTRUCTION JOINTS SHALL BE PLACED IN LOCATIONS DESIGNATED FOR CONTRACTION JOINTS ONLY. WRITTEN APPROVAL OF THE ENGINEER OF RECORD IS REQUIRED FOR CONSTRUCTION JOINTS IN OTHER LOCATIONS.
3. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
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VENEER LINTEL SCHEDULE

MARK	SIZE OR DESIGNATION	NOTES
VL1	L 3½ x 3½ x 5/16	
VL2	L 5 x 3½ x 5/16	
VL3	L 6 x 4 x ⅜	

NOTES:
1. EACH LINTEL SHALL BEAR 8" MIN. ON VENEER EA. SIDE OF OPENING.

LINTEL SCHEDULE

MARK	SIZE OR DESIGNATION	NOTES
L1	8" DEEP (1 COURSE) x 8" WIDE CMU BOND BEAM LINTEL (2) #5 REBAR CONT. AT BOTTOM	NOTES 1 TO 4
L2	W8x18 WITH 16" x 5/16" THICK BOTTOM PLATE	7"x7"x⅜" BEARING PLATE EA. END

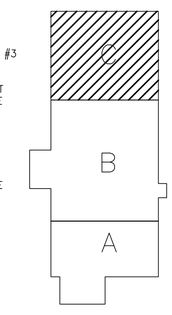
NOTES:
1. EACH MASONRY LINTEL SHALL BEAR 8" MIN. ON CMU WALL –CONTINUE HORIZ. REINF. TO END OF BEARING.
2. GROUT AND REINFORCE 2 VERTICAL CORES EACH SIDE OF ALL MASONRY AND STEEL LINTELS U.N.O.
3. BOTTOM REBAR TO BE MAINTAINED 2" MIN. CLEAR FROM BOTTOM OF BOND BEAM LINTEL OR GREATER IF REQUIRED FOR FIRE RESISTIVE CONSTRUCTION.
4. SHORE CMU LINTELS FOR ENTIRE LENGTH UNTIL BOND BEAMS ARE IN PLACE AND GROUT IS CURED. ALL BOND BEAMS LINTELS SHALL BE CONSTRUCTED OF 8" HIGH BLOCK IN RUNNING BOND. USE POUR–THRU BOND BEAM BLOCK FOR UPPER COURSE(S).

FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F1	CONT. 1'–4"x 1'–8" DEEP	(4) #5 CONTINUOUS DOWEL BARS AS DETAILED FOOTING DOWELED TO EXISTING GRADE BEAM AND POURED OVER EXISTING PAD FOOTINGS
F2	CONT. 2'–0"x 1'–0" DEEP	(2) CONT. #5 REBAR, BOTTOM
F3	CONT. 1'–4" x 10" DEEP	(2) CONT. #4 REBAR, BOTTOM
F4	CONT. 3'–0" WIDE x 4'–0" LONG x 1'–8" DEEP	#5 REBAR AT 12" o.c. EA. WAY, TOP AND BOTTOM
F5	CONT. 2'–4"x 1'–0" DEEP	(3) CONT. #5 REBAR, BOTTOM

KEYNOTES

1. 2'–0" WIDE x 5" THICK CONCRETE MAINTENANCE STRIP AROUND PERIMETER OF BUILDING. REINFORCE WITH (2) CONTINUOUS #3 EPOXY COATED REBAR.
2. CLEAN COLUMNS AND PREPARE AND REPAINT ACCORDING TO SPECIFICATIONS. WHERE BASE PLATE SCALING OR SECTION LOSS IS DISCOVERED OR WHERE RUST CANNOT BE REMOVED ENTIRELY, REMOVE AND REPLACE BASE PLATE. SEE DETAILS F TO H ON SHEET S2.1.
3. CUT DOWN EXISTING WALL BY 8" AND PLACE NEW SLAB ON GRADE OVER THE TOP.
4. LIGHT GAUGE BOX HEADER DESIGNED FOR LATERAL WIND LOAD AND WALL WEIGHT BY LIGHT GAUGE SUPPLIER.
5. SEE ARCHITECTURAL/PLUMBING/ELECTRICAL PLANS FOR EXTENT OF SLAB DEMOLITION. REPLACE SLAB WITH NEW SLAB ON GRADE MATCHING THICKNESS OF EXISTING SLAB. REINFORCE WITH #3 REBAR AT 12" o.c. EA. WAY CENTERED IN SLAB. CONTRACTOR OPTION TO REPLACE GREATER SLAB EXTENTS.



KEY PLAN

1 FOUNDATION PLAN – AREA 'C'

Scale: 1/8"= 1'–0"

DPW
FORT MCCOY, WI

MOD #	DATE	MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 6TH AVE.
FORT MC COY, WI 54656

FOUNDATION PLAN - AREA 'C'

Designed by:	Cad by:	Date:
SEH	JM	08/15/21
Dwn By:	Reviewed by:	Rev. #
NSIEHS	PF	
Work Order No	Submitted by:	Project Number
11166	DPW	ES 12003-2J

SHEET NUMBER:
S1.2
SHEET 43 of 116

Plot date: 14/09/2021

ROOF FRAMING PLAN NOTES:

(TYPICAL UNLESS NOTED OTHERWISE)

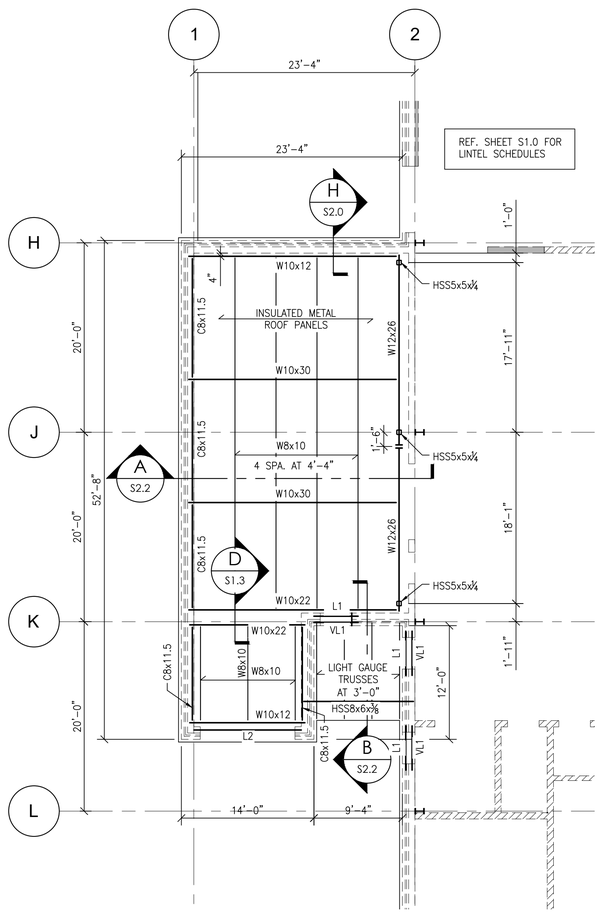
1. VESTIBULE ROOF JOIST BEARING EL. = 113'–4"
   COVERED STOOP ROOF JOIST BEARING EL. = 109'–5½"

2. ROOF DECK:
   1 1/2" DEEP x 20ga. (0.0295") TYPE B METAL ROOF DECK
   MINIMUM PROPERTIES:
   I= 0.201 in^4 /ft
   Sp= 0.234 in^3 /ft
   Sn= 0.247 in^3 /ft
   CONNECTORS: #12 TEK SCREWS ON A 36/4 PATTERN TO SUPPORTS
   SIDELAP FASTENERS: (1) #10 TEK SCREWS PER SPAN.
   INSTALL DECK OVER A MINIMUM OF 3 SPANS CONTINUOUS WHERE POSSIBLE.

3. ROOF TRUSS DESIGN CRITERIA:
   DEAD LOAD:
   20 psf – TYPICAL U.N.O.
   TRUSSES NOT DESIGNED TO SUPPORT ROOF TOP MECHANICAL LOADS.

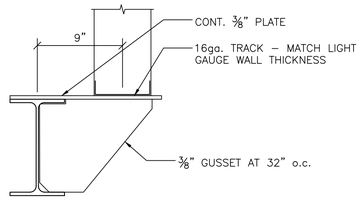
   SNOW LOADS:
   100 psf (INCLUDES SNOW DRIFT AND SLIDING SNOW)

4. CONTROL JOINT IN CONCRETE MASONRY VENEER: JOINT IN VENEER SHOWN ON BUILDING ELEVATIONS.



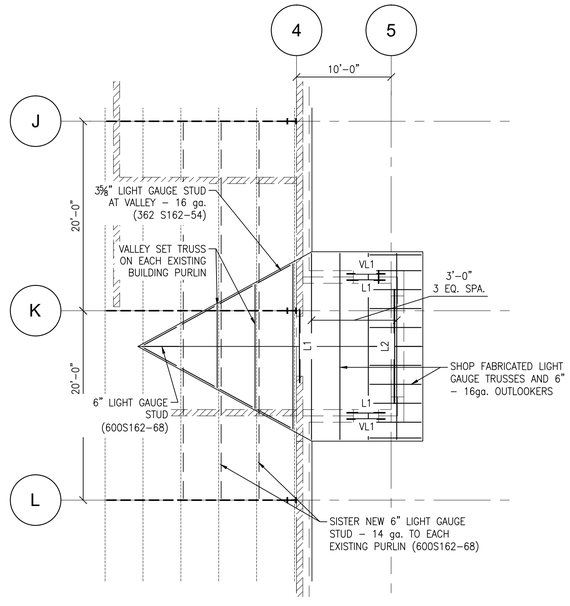
1 FRAMING PLAN – PARTIAL AREA 'B'

Scale: 1/8"= 1'–0"



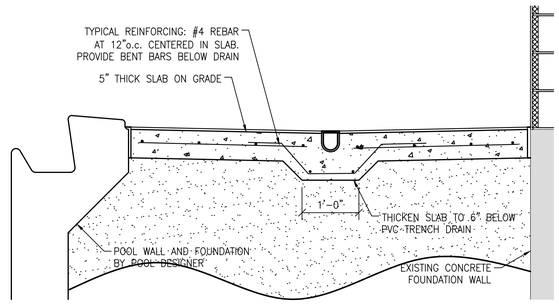
D RAISED ROOF AT GRID K DETAIL

Scale: 1 1/2"= 1'–0"



2 FRAMING PLAN – VESTIBULE

Scale: 1/8"= 1'–0"



3 SECTION AT POOL DECK

Scale: 3/4"= 1'–0"

DPW
FORT MCCOY, WI

MARK	DATE	MOD REQUEST # - DESCRIPTION	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

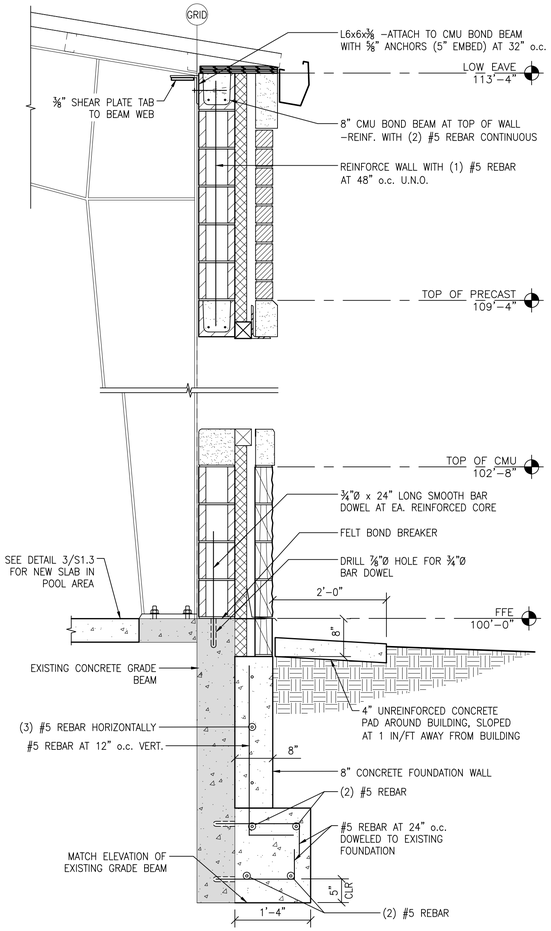
Designed by: SEH	Date: 09/15/21
Dwn by: NSIEMS	Ckd by: JM
Reviewed by: PF	Work Order No 1186
Submitted by: DPW	Project Number ES 12003-2J

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MCCOY, WI 54656

PARTIAL FRAMING PLANS AND DETAILS

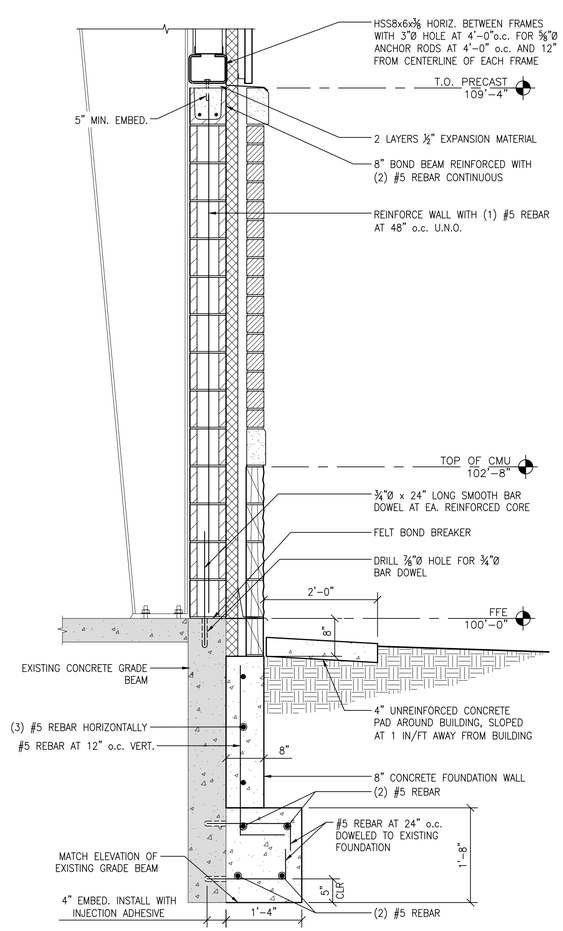
SHEET NUMBER:
S1.3
SHEET 44 of 116

Plot date: 14/09/2021



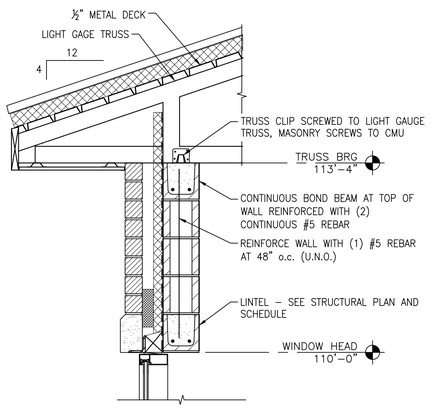
A FOUNDATION SECTION - LOW WALL (POOL)

Scale: 3/4"= 1'-0"



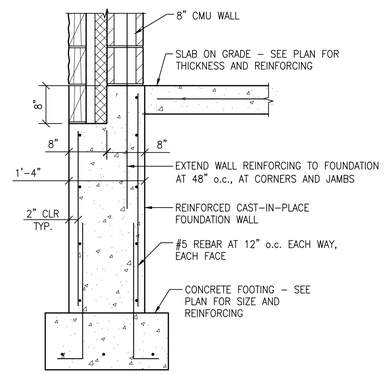
B FOUNDATION SECTION - HIGH WALL (GYM)

Scale: 3/4"= 1'-0"



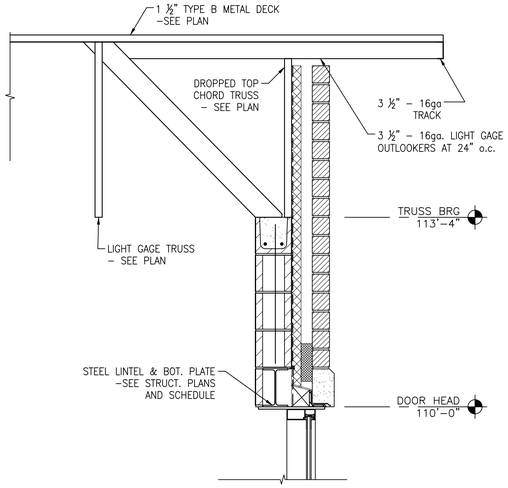
C VESTIBULE LIGHT GAGE TRUSS BEARING

Scale: 3/4"= 1'-0"



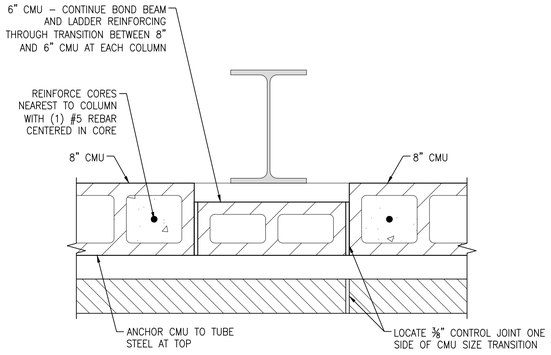
D VESTIBULE AND LOADING DOCK FOUNDATION SECTION

Scale: 3/4"= 1'-0"



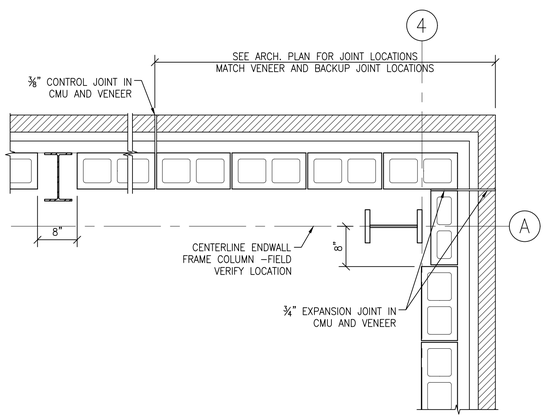
E VESTIBULE SECTION ON EAST FACE

Scale: 3/4"= 1'-0"



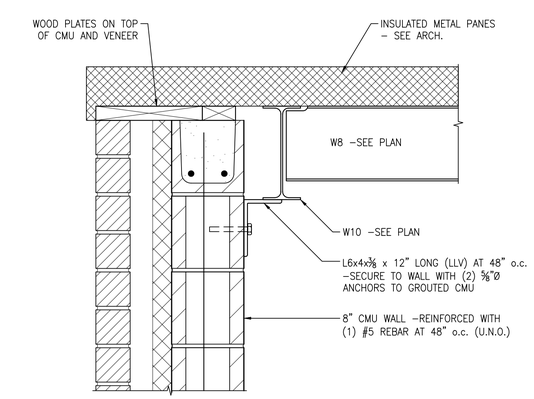
F NEW CMU AT EXISTING BUILDING FRAME COLUMN

Scale: 1 1/2"= 1'-0"



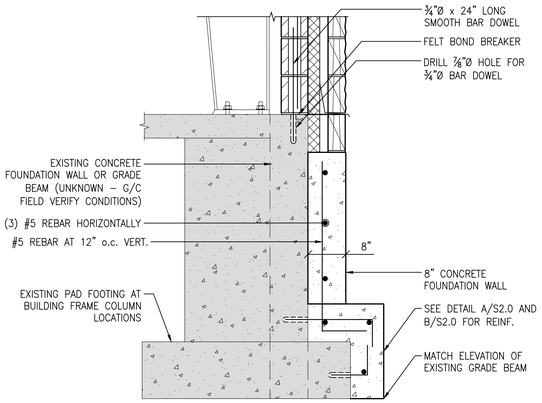
G PARTIAL JOINTING PLAN

Scale: 3/4"= 1'-0"



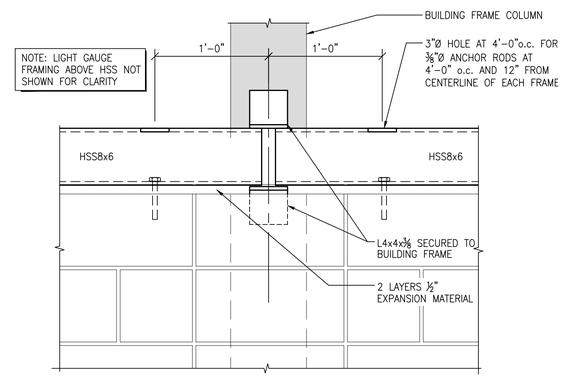
H BEAM - WALL CONNECTION

Scale: 1 1/2"= 1'-0"



J FOUNDATION SECTION AT BUILDING FRAME PAD FOOTING

Scale: 3/4"= 1'-0"



K HSS CONNECTION TO BUILDING FRAME

Scale: 1 1/2"= 1'-0"

DPW
FORT MCCOY, WI

MARK	DATE	MOD #

MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: SEH	Date: 09/15/21
Drawn by: NSEEMS	Ckd by: JM
Reviewed by: PF	Rev. #
Submitted by: DPW	Work Order No 1186
	Project Number ES 12003-2J

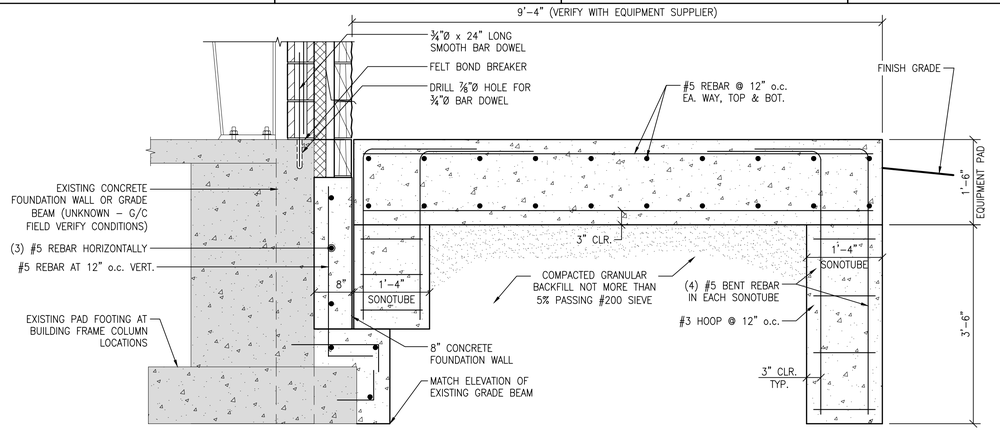
FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 6TH AVE.
FORT MCCOY, WI 54656

STRUCTURAL DETAILS

SHEET NUMBER:
S2.0

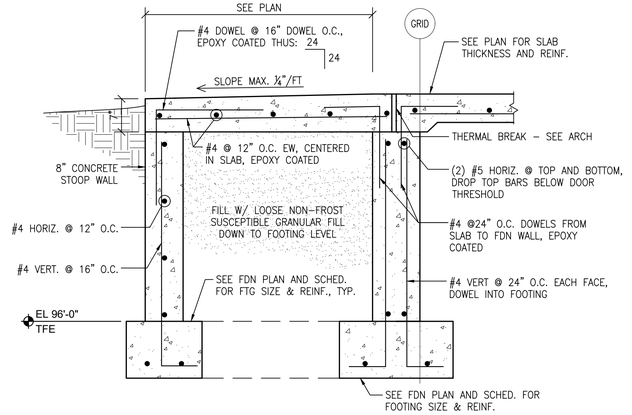
SHEET 45 of 116

Plot date: 14/09/2021



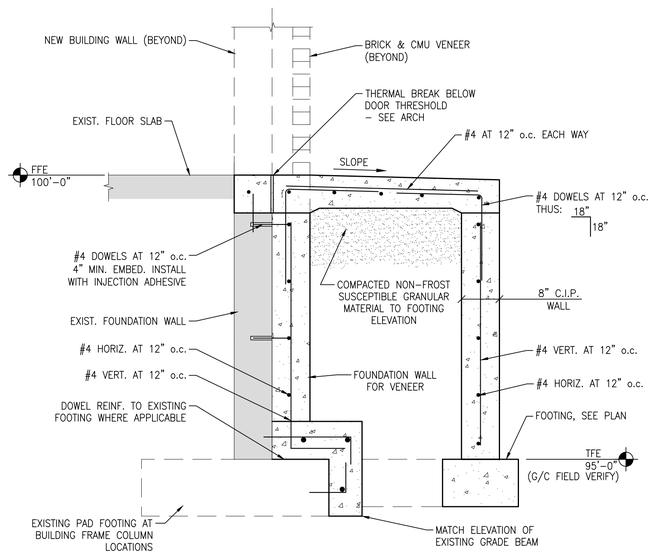
A SECTION THRU EQUIPMENT PAD

Scale: 3/4"= 1'-0"



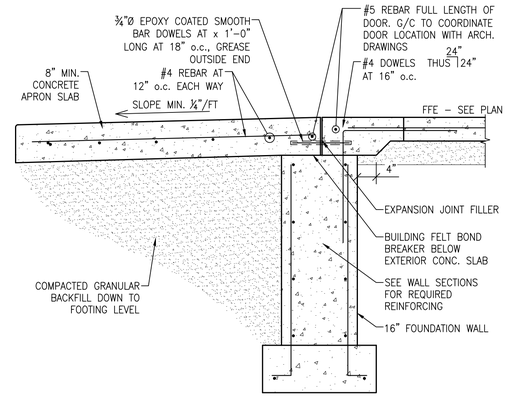
B TYPICAL STOOP SECTION

Scale: 3/4"= 1'-0"



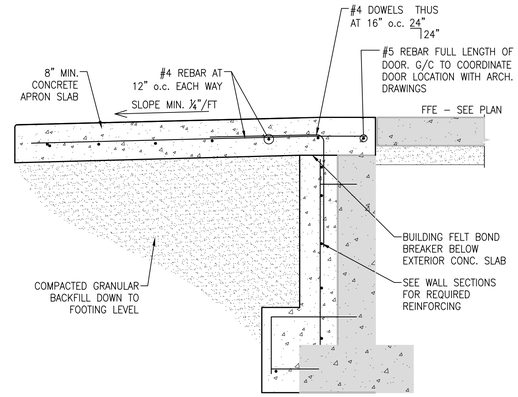
C TYPICAL STOOP FOUNDATION SECTION

Scale: 3/4"= 1'-0"



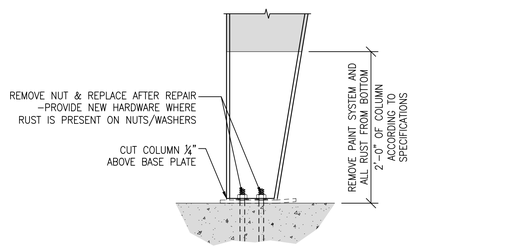
D TYPICAL CONCRETE APRON DETAIL

Scale: 3/4"= 1'-0"



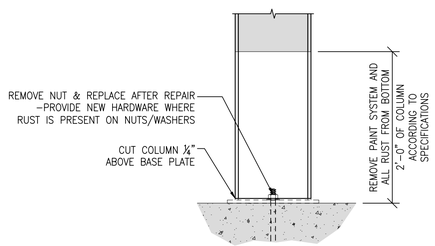
E TYP. CONC. APRON AT EXIST. WALL DETAIL

Scale: 3/4"= 1'-0"



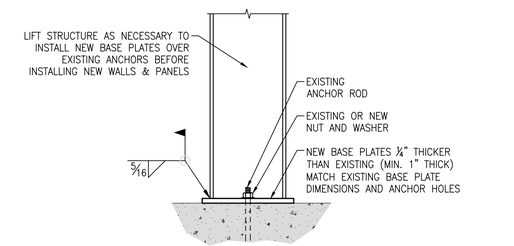
F SIDEWALL COLUMN BASE REPAIR PREP

Scale: 1"= 1'-0"



G END WALL COLUMN BASE PLATE REPAIR PREP

Scale: 1"= 1'-0"



H COLUMN BASE REPAIR DETAIL

Scale: 1"= 1'-0"

DPW
FORT MCCOY, WI

MARK	DATE	MOD #
MOD REQUEST # - DESCRIPTION		

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

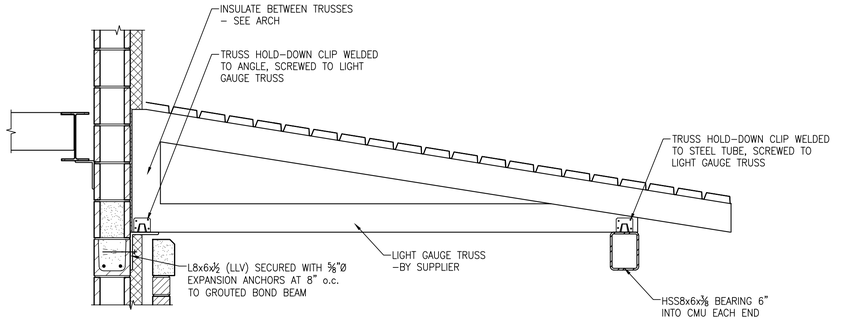
FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

STRUCTURAL DETAILS

Designed by: SEH	Date: 09/15/21
Dwn By: NSIEMS	Ckd by: JM
Reviewed by: PF	Rev. #
Submitted by: DPW	Work Order No 1186
	Project Number ES 12003-2J

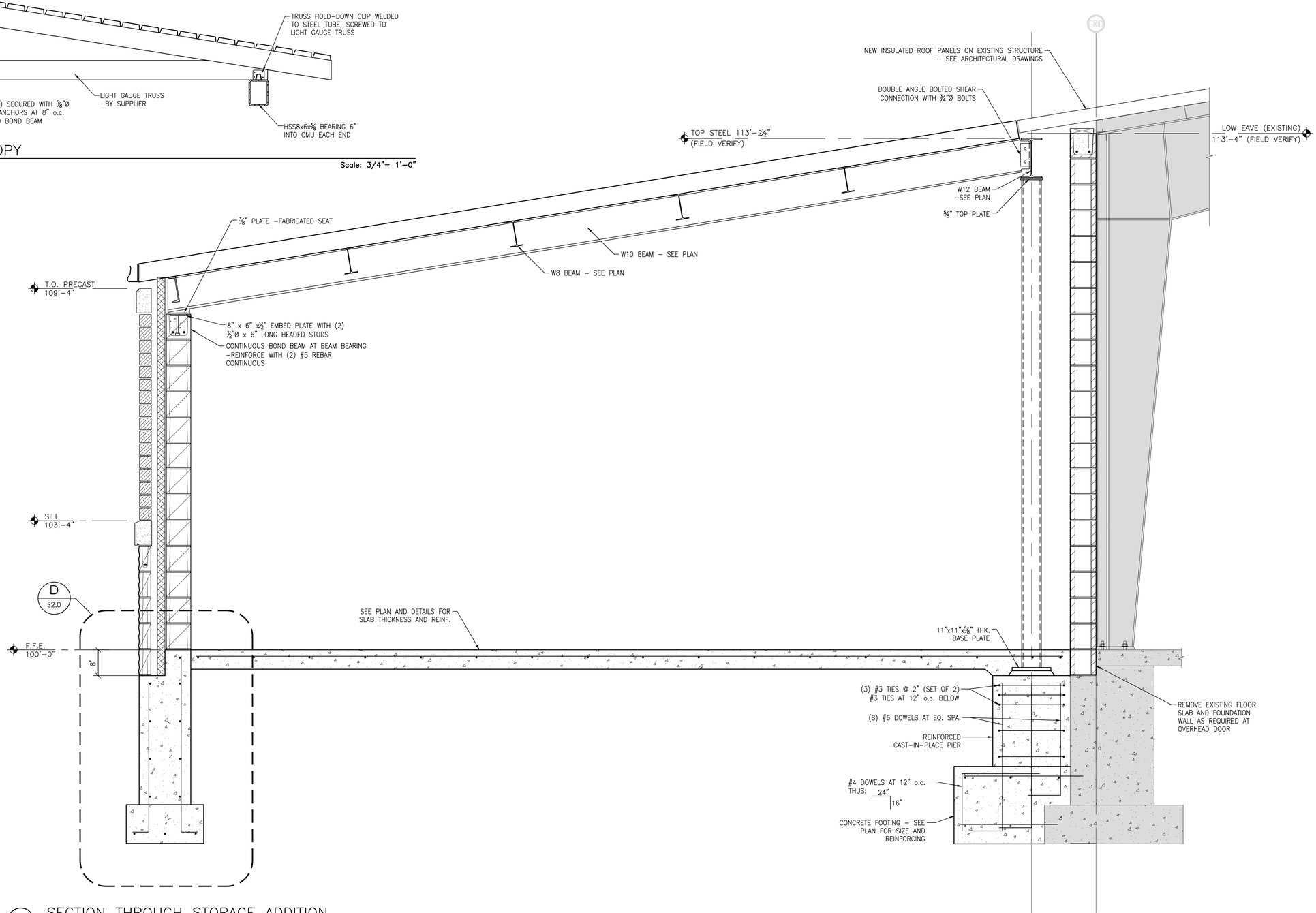
SHEET NUMBER:
S2.1
SHEET 46 of 116

Plot date: 14/09/2021



B WALL SECTION AT CANOPY

Scale: 3/4"= 1'–0"



A SECTION THROUGH STORAGE ADDITION

Scale: 3/4"= 1'–0"

DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

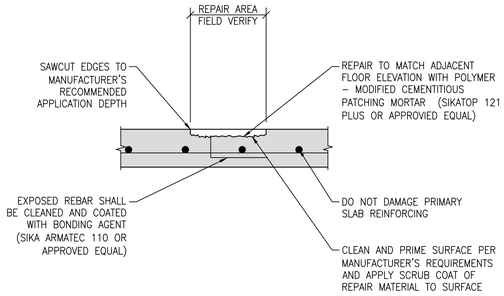
Designed by: SEH	Date: 09/15/21
Dwn by: NSIEMS	Ckd by: JM
Reviewed by: PF	Rev. #
Submitted by: DPW	Work Order No 1186
	Project Number ES 12003-24

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

STRUCTURAL DETAILS

SHEET NUMBER:
S2.2
SHEET 47 of 116

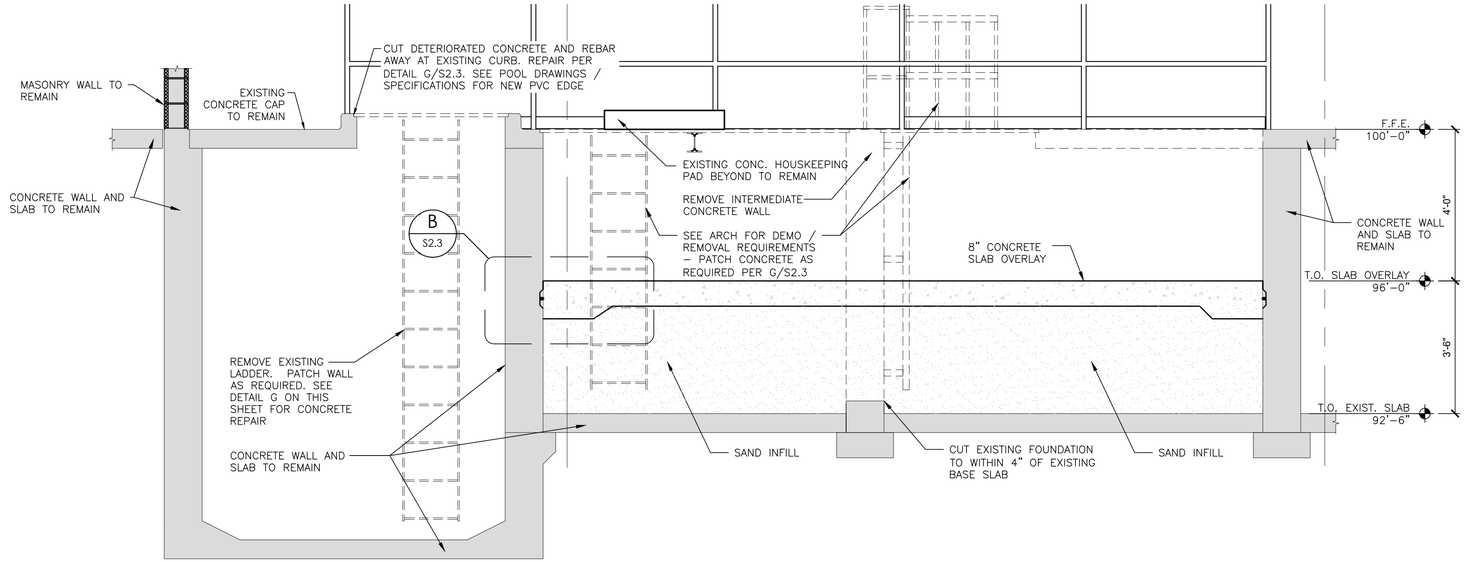
Plot date: 14/09/2021



NOTE:
1. THIS DETAIL APPLIES AT ALL EXISTING CONCRETE EQUIPMENT PADS TO BE DEMOLISHED. SEE PROCESS, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATIONS.

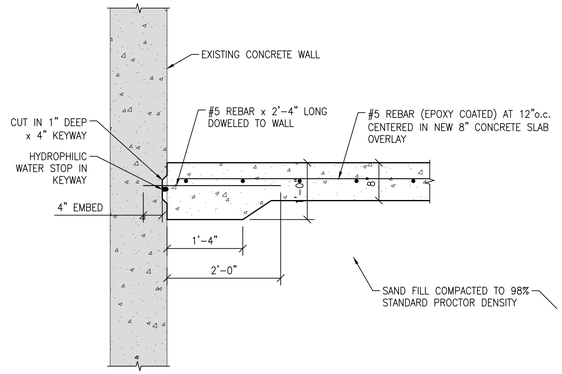
G EXISTING SLAB REPAIR DETAIL

Scale: 3/4"= 1'-0"



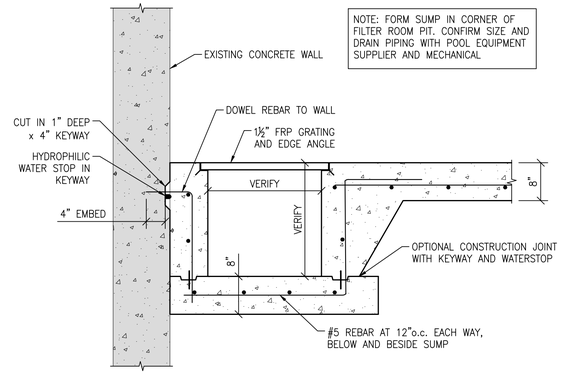
A SECTION AT POOL EQUIPMENT PIT

Scale: 1/2"= 1'-0"



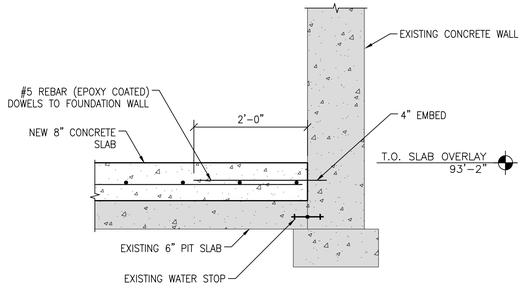
B FILTER ROOM PIT EDGE DETAIL

Scale: 3/4"= 1'-0"



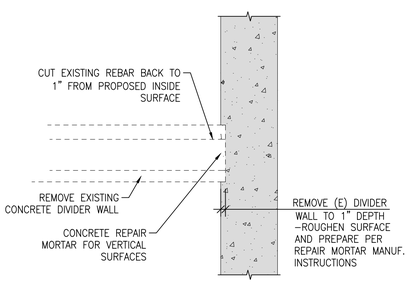
C FILTER ROOM PIT SUMP DETAIL

Scale: 3/4"= 1'-0"



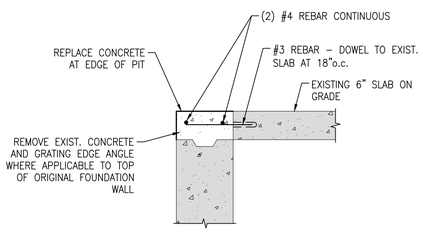
D NEW CONCRETE FLOOR SLAB IN FILTER ROOM PIT

Scale: 3/4"= 1'-0"



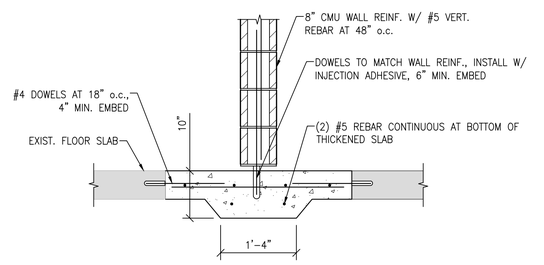
E DIVIDER WALL REMOVAL - PLAN DETAIL

Scale: 3/4"= 1'-0"



F PIT WALL DETAIL

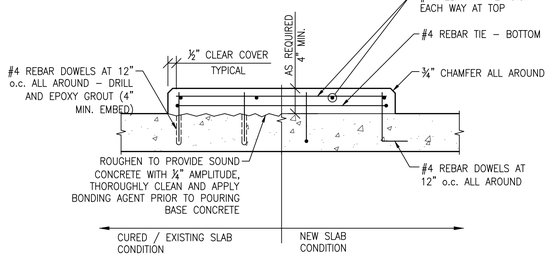
Scale: 3/4"= 1'-0"



H THICKENED SLAB DETAIL

Scale: 3/4"= 1'-0"

NOTE:
CONTRACTOR TO VERIFY EQUIPMENT LOCATION AND DIMENSIONS



J CONCRETE EQUIPMENT SLAB DETAIL

Scale: 1"= 1'-0"

DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # / DESCRIPTION

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

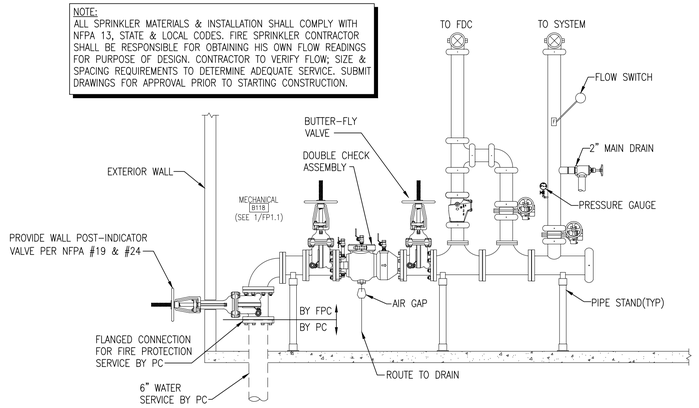
Designed by: SEH	Date: 08/15/21
Dwn by: NSIEMS	Ckd by: JM
Reviewed by: PF	Work Order No 1166
Submitted by: DPW	Project Number ES 120003-2J

STRUCTURAL DETAILS

SHEET NUMBER:
S2.3
SHEET 48 of 116

Plot date: 14/09/2021

NOTE:
ALL SPRINKLER MATERIALS & INSTALLATION SHALL COMPLY WITH NFPA 13, STATE & LOCAL CODES. FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING HIS OWN FLOW READINGS FOR PURPOSE OF DESIGN. CONTRACTOR TO VERIFY FLOW; SIZE & SPACING REQUIREMENTS TO DETERMINE ADEQUATE SERVICE. SUBMIT DRAWINGS FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.



2 FIRE SPRINKLER RISER DIAGRAM
NOT TO SCALE

FIRE PROTECTION GENERAL NOTES

1. COORDINATE INSTALLATION OF SPRINKLER PIPING AND ALL COMPONENTS WITH OTHER TRADES, DPW, AND COR.
2. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REINSTALLING ALL CEILING COMPONENTS AS REQUIRED TO INSTALL SPRINKLER PIPING AND HEADS.
3. FIRE PROTECTION SYSTEM MUST COMPLY WITH NFPA 13, NFPA 72, AND NFPA 101. FIRE PROTECTION SYSTEM MUST BE IN COMPLIANCE WITH INSURANCE CARRIER REQUIREMENTS, AND ALL APPLICABLE STATE AND LOCAL CODES.
4. FIRE PROTECTION CONTRACTOR SHALL VISIT SITE PRIOR TO BID. VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING TO ENSURE THE COORDINATION OF THE FIRE SERVICES WITH EXISTING CONDITIONS. WORK INDICATED ON THE DRAWINGS IS BASED ON THE BEST AVAILABLE INFORMATION CONCERNING LOCATIONS AND SIZES OF SPRINKLER PIPING.
5. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS IS PROHIBITED WITHOUT WRITTEN AUTHORIZATION FROM DPW, THE COR, AND THE ARCHITECT.
6. SPRINKLER HEAD LOCATIONS ARE FOR SCHEMATIC USE AND ANY ADDITIONAL HEADS REQUIRED PER CODE SHALL BE INSTALLED. VERIFY STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS AND AVOID OBSTRUCTIONS OR INTERFERENCES.
7. PROVIDE MINIMUM 5 PSI SAFETY FACTOR.
8. WORKING DRAWINGS INDICATING SPRINKLER HEAD LOCATIONS AND EXPOSED AND CONCEALED PIPING ROUTING SHALL BE PROVIDED TO THE COR PRIOR TO INSTALLATION FOR APPROVAL. SUBMIT CALCULATIONS WITH DRAWINGS.
9. ALL SPRINKLER HEADS SHALL BE INSTALLED CENTER OF TILE.
10. THE USE OF U-BOLT MECHANICAL TEES ALSO KNOW AS "JACK TEES" IS PROHIBITED.
11. SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, CEILING SYSTEMS AND STRUCTURAL SYSTEM.
12. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, AND FLOORS. ALL FIRE STOPS MUST BE RATED APPROPRIATELY FOR THE APPLICATION AND MUST MEET THE REQUIREMENTS OF UL 1479 AND ASTM E814.
13. CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING ATC CEILING AS REQUIRED FOR DEMOLITION AND NEW WORK. CONTRACTOR TO REPLACE ANY DAMAGED CEILING TILES TO MATCH EXISTING.
14. ALL SPRINKLER PIPING MUST BE MINIMUM SCHEDULE 40 FOR 2" AND LESS, AND MINIMUM SCHEDULE 10 FOR PIPING LARGER THAN 2".
15. AUXILIARY DRAINS IN CEILING SPACE SHALL BE PROVIDED WITH VALVE AND CAPPED HOSE CONNECTIONS.
16. COORDINATE ALL HEAD LOCATIONS AND PIPE ROUTING WITH EQUIPMENT, PATIENT LIFTS, UNISTRUTS, BEAMS, AND EQUIPMENT HANGERS. OFFSET HEADS ON TILE ONLY WHEN REQUIRED TO MAINTAIN CLEARANCES.
17. CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL PERMITS, LICENSES, AND CERTIFICATIONS NEEDED TO PERFORM THE WORK, AT THE CONTRACTOR'S EXPENSE. CONTRACTOR IS RESPONSIBLE TO PROVIDE OPERATIONAL TESTING AND CERTIFICATION OF THE FIRE PROTECTION SYSTEM.
18. ALL FIRE PROTECTION SYSTEM EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED DATA AND RECOMMENDATIONS.
19. ALL PIPING, FITTING, HEADS AND SYSTEM COMPONENTS IN POOL, SPA AND POOL EQUIPMENT AREAS SHALL BE PROTECTED AGAINST CORROSIVE ENVIRONMENT.

KEYED NOTES

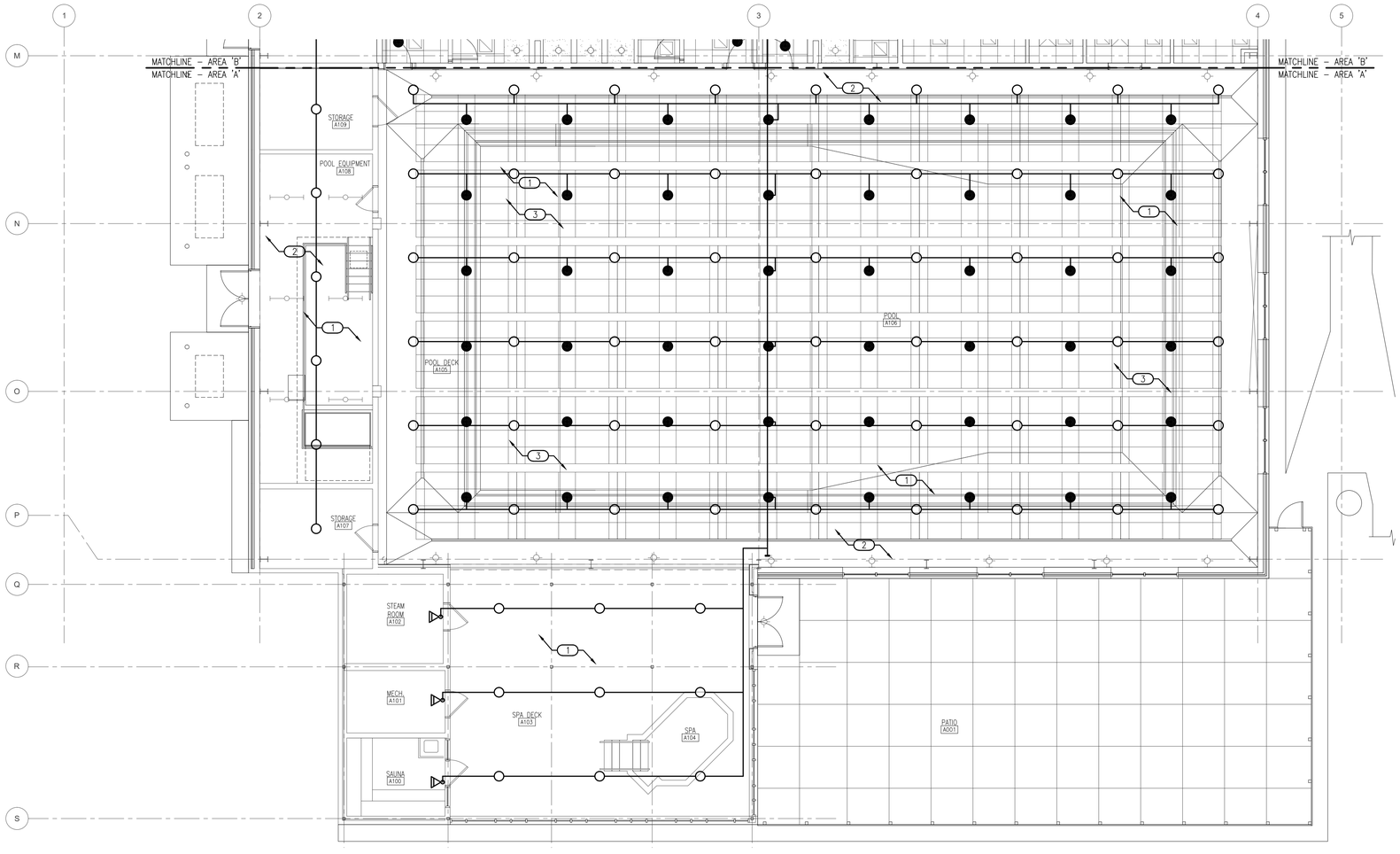
1. PROVIDE NEW FIRE PROTECTION WET SYSTEM THROUGHOUT BUILDING PER NFPA #13. COORDINATE PIPE ROUTING AND SPRINKLER HEAD LOCATIONS WITH ALL OTHER TRADES AND CEILING ITEMS.
2. PROVIDE UPRIGHT SPRINKLER HEADS BELOW DUCTWORK AS REQUIRED PER NFPA #13. COORDINATE DUCT SIZES AND ROUTING WITH MECHANICAL CONTRACTOR.
3. PROVIDE UPRIGHT SPRINKLER HEADS FOR FIRE PROTECTION COVERAGE ABOVE CLOUD CEILINGS PER NFPA #13.

FIRE PROTECTION SYMBOL LEGEND

	SHUTOFF VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE
	END CAP
	CONCEALED SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	FIRE DEPARTMENT CONNECTION(FDC)
	BELL

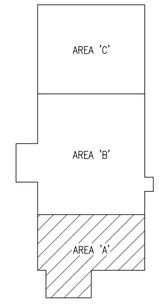
FIRE PROTECTION SHEET INDEX

FP1.0	FIRE PROTECTION PLAN – AREA 'A'
FP1.1	FIRE PROTECTION PLAN – AREA 'B'
FP1.2	FIRE PROTECTION PLAN – AREA 'C'



1 FIRE PROTECTION PLAN - AREA 'A'
1/8" = 1'-0"

NORTH



KEY PLAN
NOT TO SCALE

NORTH

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5688 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MC COY, WI 54656

Designed by: NCF	Chd by: TCC	Date: 09/15/21	
Dwn by: NCF	Reviewed by:	Rev.	Work Order No 1186
	Submitted by: DPW		Project Number ES 12003-2J

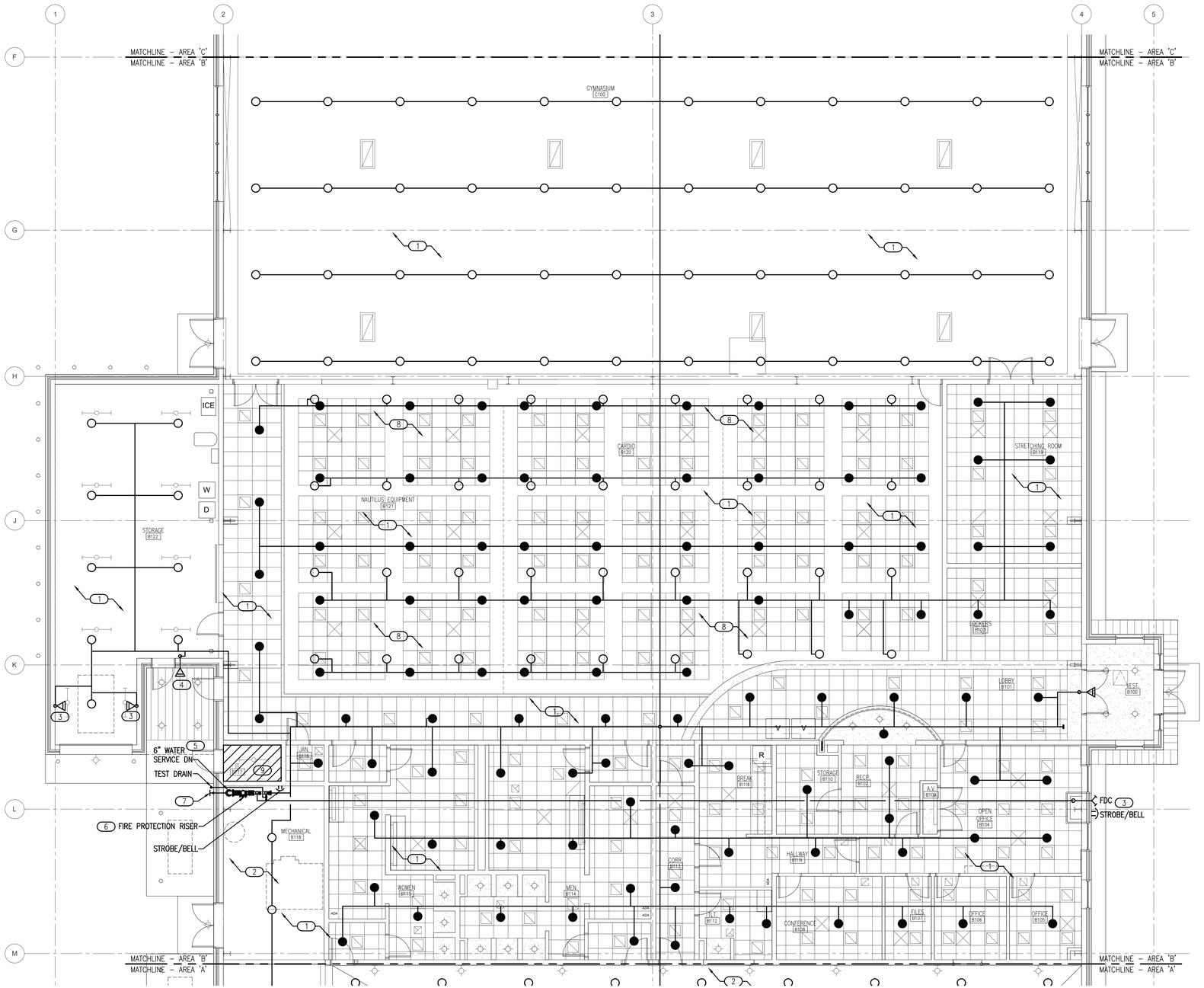
FIRE PROTECTION PLAN
AREA 'A'

SHEET NUMBER:
FP1.0
SHEET 49 of 116

Plot date:

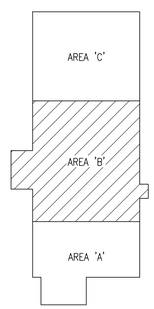
KEYED NOTES

1. PROVIDE NEW FIRE PROTECTION WET SYSTEM THROUGHOUT BUILDING PER NFPA #13. COORDINATE PIPE ROUTING AND SPRINKLER HEAD LOCATIONS WITH ALL OTHER TRADES AND CEILING ITEMS.
2. PROVIDE UPRIGHT SPRINKLER HEADS BELOW DUCTWORK AS REQUIRED PER NFPA #13. COORDINATE DUCT SIZES AND ROUTING WITH MECHANICAL CONTRACTOR.
3. PROVIDE NEW FIRE PROTECTION CONNECTION (FDC) AND STROBE. COORDINATE LOCATION AND SIZE OF CONNECTION WITH FIRE DEPARTMENT.
4. PROVIDE DRY SIDEWALL SPRINKLER HEAD AT EXTERIOR UNDER CANOPY PER NFPA #13.
5. 6" FLANGED SUPPLY CONNECTION BY PC. COORDINATE CONNECTION AND LOCATION WITH PC.
6. FIRE PROTECTION RISER. SEE DETAIL 2/FP1.0 FOR MORE INFORMATION.
7. PROVIDE WALL POST-INDICATOR PER NFPA #13.
8. PROVIDE UPRIGHT SPRINKLER HEADS FOR FIRE PROTECTION COVERAGE ABOVE CLOUD CEILINGS PER NFPA #13.
9. PROVIDE ANSUL FM-200 (OR EQUAL) CLEAN AGENT FIRE SUPPRESSION SYSTEM IN IT-B117.



1 FIRE PROTECTION PLAN - AREA 'B'

1/8" = 1'-0"



KEY PLAN

NOT TO SCALE

NORTH

NORTH

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5658 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: NCF		Date: 08/15/21	
Dwn by: NCF	Ckd by: TCC	Rev.	
Reviewed by:		Work Order No 1186	
Submitted by: DPW		Project Number ES 12003-2J	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

FIRE PROTECTION PLAN
AREA 'B'

SHEET NUMBER:

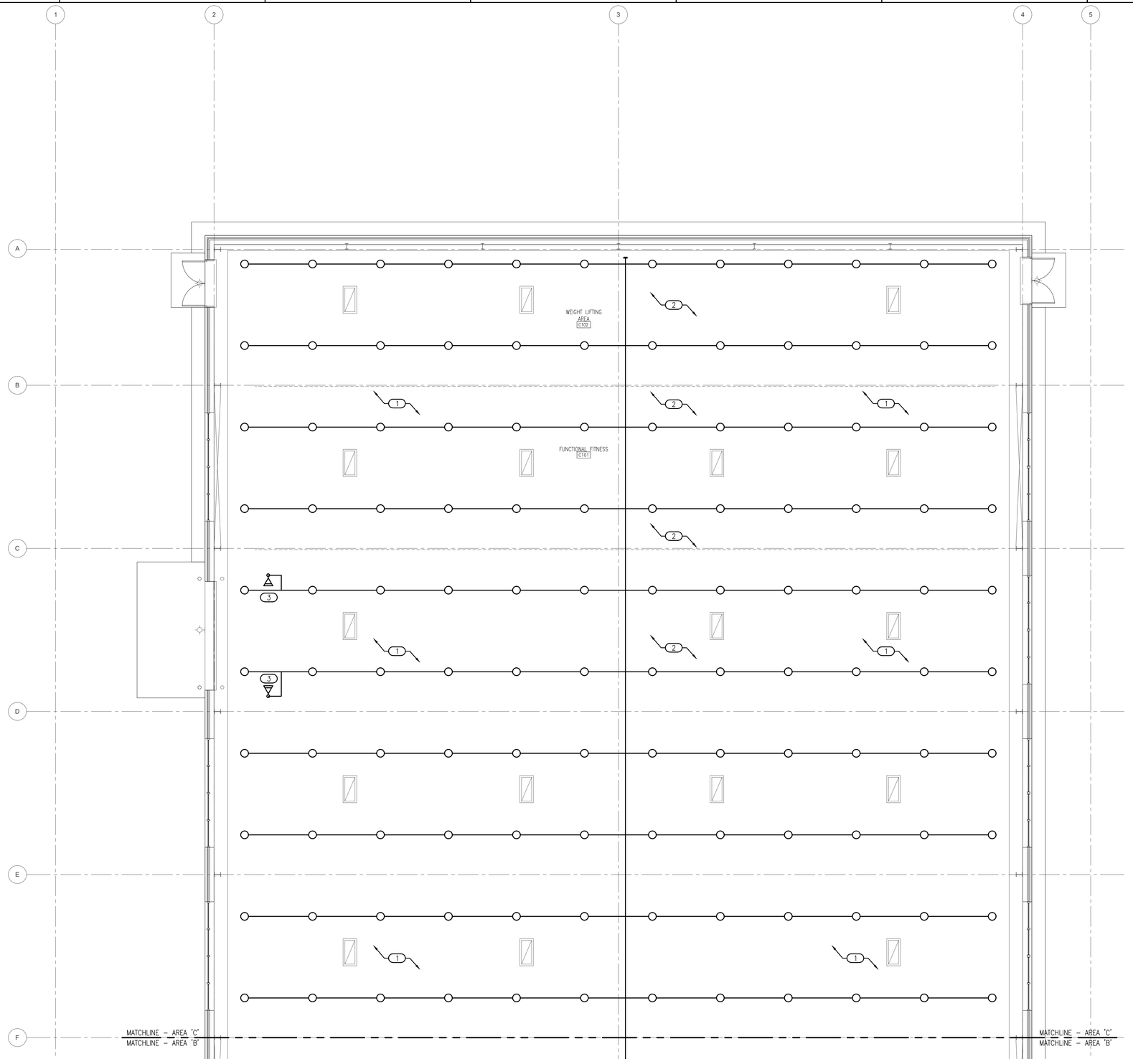
FP1.1

SHEET 50 of 116

Plot date:

KEYED NOTES

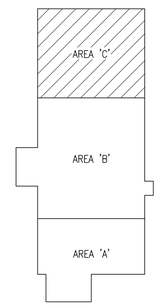
1. PROVIDE NEW FIRE PROTECTION WET SYSTEM THROUGHOUT BUILDING PER NFPA #13. COORDINATE PIPE ROUTING AND SPRINKLER HEAD LOCATIONS WITH ALL OTHER TRADES AND CEILING ITEMS.
2. PROVIDE UPRIGHT SPRINKLER HEADS BELOW DUCTWORK AS REQUIRED PER NFPA #13. COORDINATE DUCT SIZES AND ROUTING WITH MECHANICAL CONTRACTOR.
3. PROVIDE FIRE PROTECTION COVERAGE UNDER OVERHEAD DOORS AS REQUIRED.



1 FIRE PROTECTION PLAN - AREA 'C'

1/8" = 1'-0"

NORTH



KEY PLAN

NOT TO SCALE

NORTH

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.9680 | F: 715.832.5668 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: NCF		Date: 08/15/21	
Dwn by: NCF	Ckd by: TCC	Rev.	
Reviewed by:		Work Order No 1166	
Submitted by: DPW		Project Number ES 12003-2J	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MC COY, WI 54656

FIRE PROTECTION PLAN
AREA 'C'

SHEET NUMBER:

FP1.2

SHEET 51 of 116

Plot date:

STORAGE TANK SCHEDULE

ST #	LOCATION	STORAGE	INSULATION THICKNESS	INLET /OUTLET	GAUGE PORT	TANK DIMENSION	MANUFACTURER & MODEL NO.	NOTES
ST-1	MECH B118	215 GAL	2"	2"	3/4"	34" x 78"	PVI – L 215A-TR	ALL

NOTES:
1. STANDARD 3/4" PORT SHALL BE USED FOR TEMPERATURE SENSOR FURNISHED BY CHP PROVIDER (AEGIS) AND INSTALLED BY PC. LOW VOLTAGE WIRING BY TEMPERATURE CONTROLS CONTRACTOR.
2. PROVIDE RELIEF VALVE FOR TANK.
3. PROVIDE AMTROL ST-30 THERMAL EXPANSION TANK ON COLD WATER LINE.
4. OR EQUAL.

SUMP PUMP SCHEDULE

SP #	DESCRIPTION	SUMP PUMP MANUFACTURER	SUMP PUMP MODEL NUMBER	SUMP SIZE	STANDARD CONNECTIONS	GPM/ HEAD	H.P	VOLTS/PH	CHECK VALVE SWING TYPE	CORD LENGTH
SP-1	SUMP SYSTEM W/ CONTROL SYSTEM	LIBERTY PUMPS	280 SERIES	BY OTHER	1 1/2"	30/17	4/10	115/1	1 1/2"	25'-0"
SP-2	SUMP SYSTEM W/ CONTROL SYSTEM	LIBERTY PUMPS	280 SERIES	BY OTHER	1 1/2"	30/17	4/10	115/1	1 1/2"	25'-0"

NOTES:
1. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE POWER FOR PUMP, CONTROL PANEL AND ALARMS.
2. PROVIDE HEAVY DUTY COMPRESSION FIT CHECK VALVE, WITH BALL VALVE ABOVE CHECK VALVE.
3. OR EQUAL (ONE COMPANY MUST SUPPLY PUMP, BASIN AND CONTROLS).
4. PROVIDE SINGLE PHASE SIMPLEX PUMP CONTROL / ALARM SYSTEM.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	ROUGH-IN SCHEDULE COLD	HOT	WASTE	VENT	FITTINGS & REMARKS
L-1	LAVATORY	KOHLER	K-2917-8	COUNTER	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE CHICAGO FAUCETS 2200-4E2805ABCP FAUCET (0.5 GPM), MCGUIRE 8902 P-TRAP, MCGUIRE 155A STRAINER, MCGUIRE H2165CCLK STOPS AND TRUEBRO LAV GUARD.
WC-1	ADA FLUSHOMETER WATER CLOSET	KOHLER	K-4325-0	WALL	1 1/2"	–	4"	2"	PROVIDE BEMIS 1655SSCT SEAT COVER, WALL CARRIER AND SLOAN UPPERCUT WES-111 DUAL FLUSH VALVE. ADA INSTALLATION.
WC-2	FLUSHOMETER WATER CLOSET	KOHLER	K-4325-0	WALL	1 1/2"	–	4"	2"	PROVIDE BEMIS 1655SSCT SEAT COVER, WALL CARRIER AND SLOAN UPPERCUT WES-111 DUAL FLUSH VALVE.
WC-3	ADA FLUSHOMETER WATER CLOSET	KOHLER	K-96057-0	FLOOR	1 1/2"	–	4"	–	PROVIDE BEMIS 1655SSCT SEAT COVER, AND SLOAN UPPERCUT WES-111 DUAL FLUSH VALVE. ADA INSTALLATION.
SH-1	SHOWER	BY OTHER	BY OTHER	FLOOR	1/2"	1/2"	2"	–	PROVIDE BRADLEY HN300-TMV-G ADA SHOWER PACKAGE (1.5 GPM). PACKAGE INCLUDES ARM MOUNT BRACKET, VACUUM BREAKER, 60" METAL HOSE, & COMBINATION SLIDE BAR/GRAB BAR. SET MIXING VALVE TO 110°F AND PROVIDE 2"FD FOR DRAIN.
SH-2	SHOWER	BY OTHER	BY OTHER	FLOOR	1/2"	1/2"	2"	–	PROVIDE BRADLEY HN300-TMV-G ADA SHOWER PACKAGE (1.5 GPM). PACKAGE INCLUDES ARM MOUNT BRACKET, VACUUM BREAKER, 60" METAL HOSE, & COMBINATION SLIDE BAR/GRAB BAR. SET MIXING VALVE TO 110°F AND PROVIDE 2"FD FOR DRAIN.
UR-1	ADA FLUSHOMETER URINAL	KOHLER	K-5016-ET-0	WALL	3/4"	–	2"	1 1/2"	PROVIDE SLOAN ROYAL 186-0.5 MANUAL FLUSH VALVE AND ZURN URINAL CARRIER. INSTALL URINAL AT ADA HEIGHT AND CAULK AROUND FIXTURE.
UR-2	FLUSHOMETER URINAL	KOHLER	K-5016-ET-0	WALL	3/4"	–	2"	1 1/2"	PROVIDE SLOAN ROYAL 186-0.5 MANUAL FLUSH VALVE AND ZURN URINAL CARRIER. CAULK AROUND FIXTURE.
S-1	BREAKROOM SINK	ELKAY	LRADQ191965-3	COUNTER	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE CHICAGO 2300-8E2805ABCP FAUCET, MCGUIRE 8912 P-TRAP, MCGUIRE 151A STRAINER AND MCGUIRE H2165CCLK STOPS.
EWC-1	DUAL LEVEL ELECTRIC WATER COOLER	ELKAY	LZSTL8WSSK	WALL	1/2"	–	1 1/2"	1 1/2"	PROVIDE PVC P-TRAP & MCGUIRE H2165CCLK STOP. COORDINATE POWER W/ ELECTRICAL CONTRACTOR & COLOR WITH OWNER. ADA INSTALLATION.
MS-1	MOP SINK	FIAT	MSB-2424 24x24x10	FLOOR	1/2"	1/2"	3"	–	PROVIDE FIAT 830AA FAUCET, 832AA HOSE & BRACKET, 889-CC MOP BRACKET, MSG 2424 SS WALL GUARDS. PROVIDE WATTS 8A – ASSE 1011 APPROVED HOSE CONNECTION VACUUM BREAKER.
FS	FLOOR SINK	SIOUX CHIEF	861 SERIES	FLOOR	–	–	SEE PLANS	–	PROVIDE 861-53I GRATE AND 861-AD DOME STRAINER. INSTALL FLUSH WITH FINISHED FLOOR.
FD	FLOOR DRAIN	JOSAM	3000 SERIES	FLOOR	–	–	SEE PLANS	–	MOUNT STRAINER FLUSH WITH FINISH FLOOR.
FCO	FLOOR CLEANOUT	JOSAM	55000-1 SERIES	FLOOR	–	–	SEE PLANS	–	MOUNT COVER FLUSH WITH FINISH FLOOR.
IM-1	ICE MAKER	BY OTHER	BY OTHER	PIPE	1/2"	–	–	–	PROVIDE CHUDNOW S470D-W DOUBLE CHECK VALVE. ROUTE DRAIN FROM UNIT TO FLOOR SINK AND TERMINATE WITH AIR GAP. INSTALL WATER FILTER FURNISHED BY OTHERS.
CM-1	COFFEE MAKER	BY OTHER	BY OTHER	PIPE	1/2"	–	–	–	PROVIDE CHUDNOW S470D-W DOUBLE CHECK VALVE. INSTALL FURNISHED FILTER SYSTEM.
HA-1	HAMMER ARRESTOR	WATTS	LF15M2	PIPE	–	–	–	–	INSTALL AND SIZE PER MANUFACTURER'S RECOMMENDATIONS.
EW-1	EYEWASH/ DRENCH SHOWER	BRADLEY	S19314AA1-CBDA00	FLOOR	1 1/4" TEPID		–	–	PROVIDE BRADLEY S19-2150 EFX20 MIXING VALVE. OR EQUAL.
WB-1	COLD WATER SUPPLY WALL BOX	OATEY	39125	WALL	1/2"	–	–	–	INSTALL FLUSH WITH FINISHED WALL. OR EQUAL. UNIT COMES WITH HAMMER ARRESTOR. COORDINATE LOCATION WITH GC. MAKE ALL FINAL CONNECTION.
WB-2	LAUNDRY WALL BOX	OATEY	38642	WALL	1/2"	1/2"	2"	1 1/2"	INSTALL FLUSH WITH FINISHED WALL. OR EQUAL. UNIT COMES WITH HAMMER ARRESTORS. COORDINATE LOCATION WITH GC. MAKE ALL FINAL CONNECTION.
SM-1	SUIT MATE SPIN DRYING SYSTEM	BY OTHER	BY OTHER	WALL	–	–	–	–	ROUTE DRAIN TO OPENSITE BELOW AND TERMINATE VIA AIR GAP. PC SHALL MAKE FINAL PLUMBING CONNECTION TO SUIT MATE.
TD-1	POOL DECK TRENCH DRAIN	DALDORADO	DDD DECK DRAIN SYSTEM	FLOOR	–	–	3"	–	PROVIDE ALL NECESSARY CHANNEL FITTINGS AND POLYPROPYLENE GRATES AS REQUIRED TO INSTALL AS SHOWN ON PLANS. GRATE COLOR TO BE SELECTED BY ARCHITECT.

PLUMBING ABBREVIATIONS

AG	ABOVE GRADE
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
ALT	ALTERNATE
BG	BELOW GRADE
CO	CLEANOUT
CW	COLD WATER
CWH	COLD WATER (HARD)
DN	DOWN
DW	DISHWASHER
EC	ELECTRICAL CONTRACTOR
EQ	EQUAL
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLR	FLOOR
FT	FOOT (FEET)
F	FURNACE
G	GAS
GAL	GALLON
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HW	HOT WATER
HWR	HOT WATER RETURN
IE	INVERT ELEVATION
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MIN	MINIMUM
NG	NATURAL GAS
NTS	NOT TO SCALE
NPCW	NON POTABLE COLD WATER
NPHW	NON POTABLE HOT WATER
OS	OPEN SITE DRAIN
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PRES	PRESSURE
REG	REGULATOR
QTY	QUANTITY
SAN	SANITARY
SCH	SCHEDULE
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
TEMP	TEMPERATURE
TYP	TYPICAL
V	VENT
VTR	VENT THRU ROOF
W/	WITH
WCO	WALL CLEANOUT
WC	WATER CLOSET
WC	WATER COLUMN

GENERAL PLUMBING NOTES

1. THESE DRAWINGS SHALL NOT BE SCALED. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR DIMENSIONAL INFORMATION. THIS ENGINEER WILL NOT BE LIABLE FOR MISCALCULATED PRODUCT TAKE-OFFS DUE TO SCALING OF DRAWINGS.
2. CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL PERMITS, LICENSES, AND CERTIFICATIONS NEEDED TO PERFORM THE WORK, AT CONTRACTOR'S EXPENSE.
3. VALVES AND FITTINGS SHALL BE OF SAME SIZE AS THE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
4. CONTRACTOR MUST COORDINATE ALL WORK THROUGH DPW AND ALL OTHER TRADES.
5. CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING. NOTIFY DPW AND THE ARCHITECT OF ANY DISCREPANCIES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS. CONTRACTOR MUST PROVIDE APPROPRIATELY RATED FIRESTOP FOR ALL PENETRATIONS.
7. ALL WATER SUPPLY AND SANITARY LINES SHALL BE ROUTED AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE. ALL PIPING MUST BE SUPPORTED IN ACCORDANCE WITH UFC 3-420-01 AND THE WISCONSIN ADMINISTRATION CODE SPS 381-391 (STATE PLUMBING CODES).
9. CONTRACTOR SHALL GIVE FIVE DAY NOTICE IN WRITING TO, AND RECEIVE WRITTEN APPROVAL, FROM COR (OR HIS/HER REPRESENTATIVE) PRIOR TO SHUT DOWN OF ANY SYSTEM OR DISRUPTION OF SERVICE TO ANY AREA. CONTRACTOR SHALL ALSO COORDINATE THE EXACT LOCATION AND TIMING OF SYSTEM(S) SHUTDOWN POINTS WITH COR. CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO MINIMIZE THE DURATION OF ANY DOWNTIME OR DISRUPTION PERIOD.
10. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
11. PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
12. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
13. COORDINATE EXACT LOCATION OF FLOOR DRAINS FOR HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR.
14. DO NOT PENETRATE WALL FOOTINGS WITH PIPING, COORDINATE WITH COR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED. CONTRACTOR MUST OBTAIN APPROVAL IN WRITING FROM THE STRUCTURAL ENGINEER PRIOR TO THE START OF WORK TO PENETRATE LOAD BEARING WALLS AND/OR FOOTINGS. PROVIDE LINK-SEALS IN ALL PENETRATIONS OF EXTERIOR WALLS.
15. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE IN PROVIDED CEILING SPACE.
16. COORDINATE PIPING INSTALLATION AS TO NOT INTERFERE WITH HVAC EQUIPMENT ACCESS.
17. COORDINATE EXTENT OF ALTERNATE BIDS WITH COR.
18. PLUMBING WORK MUST COMPLY WITH THE REQUIREMENTS OF UFC 3-420-01 INCLUDING CHANGE 10 DATED 26 OCTOBER, 2015.
19. ALL PLUMBING EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED DATA AND RECOMMENDATIONS.
20. REFER TO SHEET G0.1 FOR ADDITIONAL GENERAL NOTES.

PLUMBING PIPING LINETYPES

LINETYPE	DESCRIPTION
——G——	GAS
———	SANITARY ABOVE GRADE
— — — — — — —	SANITARY BELOW GRADE
– – – – – – – – – –	VENT ABOVE GRADE
----------	VENT BELOW GRADE
————	COLD WATER
— — — — — — —	COLD WATER BELOW GRADE
————	HOT WATER

MASTER MIXING VALVE SCHEDULE

MARK	LOCATION	SERVICE	INLETS	OUTLETS	ELECTRICAL	MANUFACTURER & MODEL NO.
MV 1	MECH B118	DOMESTIC HOT WATER SYSTEM	(2) 1 1/2" (1) 1"	(1) 1 1/2" (1) 1"	120/60/1	ARMSTRONG BRAIN DMC40

NOTES:
1. INSTALL PER MANUFACTURER INSTRUCTIONS.
2. OR EQUAL.

CIRCULATION PUMP SCHEDULE

MARK	MAXIMUM WORKING PRESSURE	MAXIMUM OPERATING TEMP (°F)	MOTOR ELECTRICAL CHAR	F.L. AMPS	HP	RPM	FLANGE SIZE (INCHES)	MATERIAL	MANUFACTURER & MODEL NO.
CP 1	150 PSI	225	115/60/1	.80	1/20	2940	3/4"	BRONZE	B & G NBF-22

NOTES:
1. PROVIDE WATTS #IPF-S 3/4" FLANGE SET.
2. PROVIDE PROVIDE B & G #TC-1 TIMER KIT WITH AQUASTAT – SET TIMER PER OWNER'S REQUIREMENTS.

PLUMBING PIPING LEGEND

	CIRCUIT SETTER
	BALL VALVE OR SHUT-OFF VALVE
	SPRING CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	RPZ VALVE OR BACKFLOW PREVENTER
	HAMMER ARRESTOR (PISTON TYPE)
	HAMMER ARRESTOR (BELLOWS TYPE)
	PIPE REDUCER FITTING
	END CAP
	PIPE CONNECTION
	FLOW DIRECTION ARROW
	PIPING ELBOW DOWN
	PIPING ELBOW UP OR PIPING RISER UP & DOWN
	PIPING TEE DOWN
	PIPING TEE UP OR PIPING RISER UP & DOWN
	HOSE BIB OR WALL HYDRANT
M	FLOW METER
R	PRESSURE REGULATOR
	CIRCULATING PUMP (HOT WATER RETURN)
	NEW TO EXISTING PIPE CONNECTION
	NEW TO EXISTING POINT OF CONNECTION SYMBOL
	PIPING LINEWEIGHT: EXISTING
	PIPING LINEWEIGHT: NEW/DEMOLITION

NATURAL GAS LOAD TABLE

	INPUT(MBH)	REQUIRED PRESSURE	REQUIRED REGULATOR	SYSTEM PRESSURE
CHP-1	930	7"	MAXITROL #325-7AL210D	2 PSI
GUH-1	40	7"	N/A	7"
GUH-2	125	7"	N/A	7"
GUH-3	125	7"	N/A	7"
B-1	340	7"	MAXITROL #325-5L600	2 PSI
B-2	340	7"	MAXITROL #325-5L600	2 PSI
TOTAL LOAD	1,900 MBH'S			

NOTES:
1. INSTALL AND VENT REGULATOR PER MANUFACTURER'S RECOMMENDATIONS. REGULATORS WITHOUT VENT LIMITERS SHALL BE VENTED TO EXTERIOR OF BUILDING. TERMINATE VENTS WITH GOOSENECK AND INSECT SCREEN.
2. REGULATORS WITH VENT LIMITERS SHALL BE INSTALLED IN THE UPRIGHT POSITION. SEE MANUFACTURER'S RECOMMENDATIONS FOR DETAILS.

REDUCED PRESSURE BACKFLOW PREVENTER SCHEDULE

MARK	LOCATION	SIZE	PRESSURE DROP	FLOW	SERVES	MANUFACTURER & MODEL NO.	ACCESSORIES	NOTES
RPZ-1	MECHANICAL A108	2"	10 PSI	50 GPM	POOL MAKE UP	WATTS LF009QTS	WATTS 909AG AIR GAP	ALL

NOTES:
1. PC TO PIPE AIR GAP TO FLOOR DRAIN.
2. PLUMBING CONTRACTOR IS RESPONSIBLE TO CONDUCT A TEST ON VALVE PRIOR TO IT BEING PUT INTO SERVICE. PLUMBING CONTRACTOR SHALL SUBMIT REGISTRATION OF THE RPZ TO THE STATE AFTER COMPLETION OF THE TEST.

WATER CALCULATIONS WORKSHEET

1. 67 DEMAND OF BUILDING IN GALLONS PER MINUTE.
2. 60 LOW PRESSURE AT THE CURBSTOP OR AT EXTERNAL PRESSURE TANK.
3. 8 DIFFERENCE IN ELEVATION FROM MAIN TO METER.
4. N/A SIZE OF WATER METER IN INCHES.
5. 200' DEVELOPED LENGTH FROM CURBSTOP TO METER.
6. 0 FIND PRESSURE LOSS DUE TO FRICTION IN 6" WATER SERVICE. 0 (PSI/100 FT)
7. 3.5 FIND PRESSURE LOSS DUE TO ELEVATION, MAIN TO METER (OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE). MULTIPLY THE DIFFERENCE BY .434 PSI/FT.
8. 0 FIND THE PRESSURE LOSS DUE TO METER.
9. 56.5 SUBTRACT THE LOSS DUE TO FRICTION (STEP 6), LOSS DUE TO ELEVATION (STEP 7), AND LOSS DUE TO METER (STEP 8) FROM THE LOW MAIN PRESSURE (OR LOW PRESSURE AT EXTERNAL PRESSURE TANK). THIS CALCULATION IS THE AVAILABLE PRESSURE AFTER THE WATER METER (OR AT THE BUILDING CONTROL VALVE). THIS ANSWER IS ENTERED IN LINE B, BELOW.

INFORMATION NEEDED FOR WATER DISTRIBUTION SIZING:

FORMULA: A = [B – (C + D + E)] x 100 / F

A. 9 PRESSURE AVAILABLE FOR UNIFORM LOSS (PSI/100' OF PIPE).
B. 56.5 AVAILABLE PRESSURE AFTER WATER METER (SEE ITEM 9, ABOVE).
C. 30 PRESSURE NEEDED AT CONTROLLING FIXTURE.
D. 0 DIFFERENCE IN ELEVATION BETWEEN WATER METER (BUILDING CONTROL VALVE OR INTERNAL PRESSURE TANK) AND CONTROLLING FIXTURE IN FEET 0 x .434 PSI/FT
E. 0 PRESSURE LOSS DUE TO WATER SOFTNERS, WATER TREATMENT DEVICES, INSTANTANEOUS WATER HEATERS AND BACKFLOW PREVENTORS.
F. 300 DEVELOPED LENGTH FROM WATER METER TO CONTROLLING FIXTURE IN FEET 200' x 1.5.

PLUMBING SHEET INDEX

P0.1	PLUMBING COVER SHEET
P1.0	PLUMBING DEMOLITION PLAN – BELOW GRADE – AREA 'A'
P1.1	PLUMBING DEMOLITION PLAN – BELOW GRADE – AREA 'B'
P1.2	PLUMBING DEMOLITION PLAN – BELOW GRADE – AREA 'C'
P1.3	PLUMBING DEMOLITION PLAN – ABOVE GRADE – AREA 'A'
P1.4	PLUMBING DEMOLITION PLAN – ABOVE GRADE – AREA 'B'
P1.5	PLUMBING DEMOLITION PLAN – ABOVE GRADE – AREA 'C'
P2.0	PLUMBING PLAN – BELOW GRADE – AREA 'A'
P2.1	PLUMBING PLAN – BELOW GRADE – AREA 'B'
P2.2	PLUMBING PLAN – BELOW GRADE – AREA 'C'
P2.3	PLUMBING PLAN – ABOVE GRADE – AREA 'A'
P2.4	PLUMBING PLAN – ABOVE GRADE – AREA 'B'
P2.5	PLUMBING PLAN – ABOVE GRADE – AREA 'C'
P2.6	ENLARGED PLUMBING PLANS
P3.1	PLUMBING ISOMETRIC – SANITARY SYSTEM
P3.2	PLUMBING ISOMETRIC – DOMESTIC WATER SYSTEM
P4.1	PLUMBING DETAILS

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5668 | mepassociates.com
MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: NCF	Ckd by: TCC	Date: 09/15/21	
Dwn by: NCF	Reviewed by:	Rev.	
		Work Order No 1186	
	Submitted by: DPW	Project Number ES 120032J	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 6TH AVE.
FORT McCOY, WI 54656

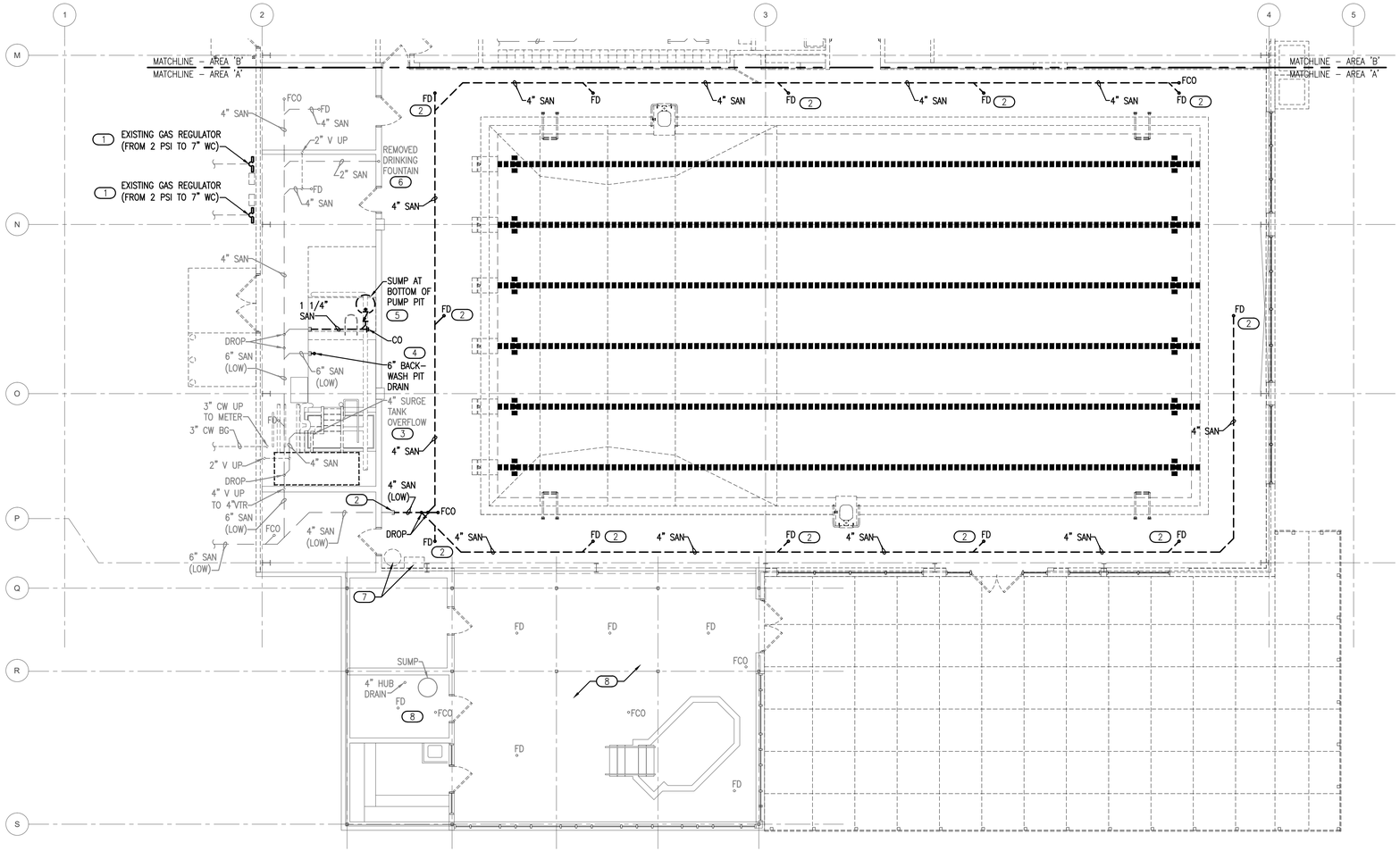
PLUMBING COVER SHEET

SHEET NUMBER:
P0.1
SHEET 52 of 116

Plot date:

KEYED NOTES

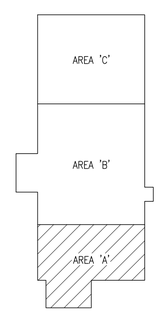
1. REMOVE EXISTING PIPING THROUGH WALL AND ASSOCIATED REGULATOR AND TEMPORARILY CAP GAS MAIN FOR CONNECTION DURING NEW CONSTRUCTION. COORDINATE WITH WITH GC FOR EXTENT OF DEMOLITION REQUIRED FOR NEW EXTERIOR WALL. MAINTAIN REGULATOR TO BE INSTALLED ONCE WALL HAS BEEN CONSTRUCTED.
2. REMOVE DECK FLOOR DRAINS AND ASSOCIATED PIPING AND COMPONENTS BACK TO MAIN AS SHOWN ON PLANS. COORDINATE DEMOLITION WORK WITH GC AND POOL CONTRACTOR TO REMOVE BELOW DECK PIPING ONCE DECKING IS REMOVED. TEMPORARILY CAP SANITARY PIPING AS SHOWN FOR CONNECTION DURING NEW CONSTRUCTION.
3. SURGE TANK OVERFLOW DRAIN SHALL REMAIN. EXTEND DRAIN UP AS REQUIRED FOR NEW ELEVATION OF SURGE TANK WATERLINE. COORDINATE WORK WITH GC AND POOL CONTRACTOR.
4. REMOVE BACKWASH PIT DRAIN AND CAP AT EXTERIOR WALL OF PIT. COORDINATE DEMOLITION WORK WITH GC AND POOL CONTRACTOR.
5. REMOVE PIT SUMP PUMP AND ALL ASSOCIATED PIPING AND COMPONENTS. CAP PIPING AT EXTERIOR WALL OF PIT. COORDINATE DEMOLITION WORK WITH GC AND POOL CONTRACTOR.
6. REMOVE EXISTING CAPS AND PIPING ABOVE GRADE, AT WALL, THAT SERVED REMOVED DRINKING FOUNTAIN. PIPING SHALL BE CAPPED WITHIN WALL. COORDINATE WITH GC TO PATCH EXISTING WALL.
7. REMOVE SHOWER AND ASSOCIATED ELECTRIC WATER HEATER, PIPING AND COMPONENTS. COORDINATE DEMOLITION OF WATER HEATER WITH ELECTRICAL CONTRACTOR. MAINTAIN SHOWER AND WATER HEATER TO BE REINSTALLED DURING NEW CONSTRUCTION.
8. FIXTURES AND PIPING IN SPA/WHIRLPOOL AREA SHALL REMAIN. VERIFY POINTS OF GAS, WASTE AND WATER PIPING CONNECTIONS TO POOL AREA DURING DEMOLITION AND RECONNECT DURING NEW CONSTRUCTION.



1 PLUMBING DEMOLITION PLAN - BELOW GRADE - AREA 'A'

1/8" = 1'–0"

NORTH



KEY PLAN

NOT TO SCALE

NORTH

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5668 | mepassociates.com

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REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: NCF		Date: 08/15/21	
Drwn by: NCF	Chd by: TCC	Rev.	
Reviewed by:		Work Order No 1166	
Submitted by: DPW		Project Number ES 12003-2J	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MC COY, WI 54656

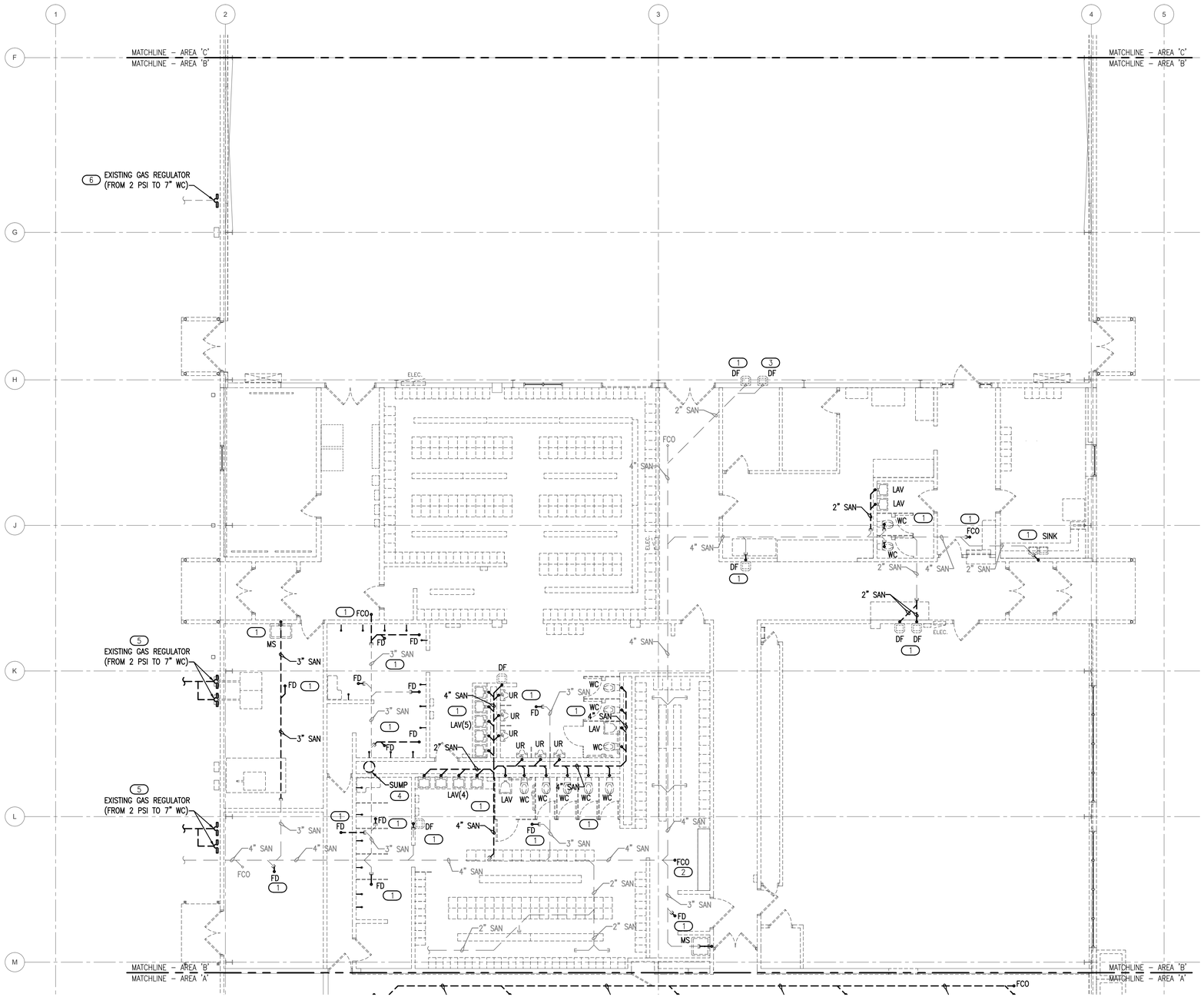
PLUMBING DEMOLITION PLAN
BELOW GRADE – AREA 'A'

SHEET NUMBER:
P1.0
SHEET 53 of 116

Plot date:

KEYED NOTES

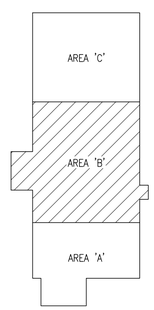
1. REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING AND COMPONENTS AS REQUIRED BY PLANS. CAP SANITARY PIPING BELOW GRADE AS SHOWN.
2. REMOVE FLOOR CLEANOUT AND TEMPORARILY CAP SANITARY PIPING BELOW GRADE FOR CONNECTION DURING NEW CONSTRUCTION.
3. REMOVE DRINKING FOUNTAIN AND ASSOCIATED WATER SUPPLY AND COMPONENTS. TEMPORARILY CAP SANITARY PIPING IN WALL FOR CONNECTION TO NEW ELECTRIC WATER COOLER (EWC-1) DURING NEW CONSTRUCTION.
4. REMOVE EXISTING SUMP AND ASSOCIATED PIPING AND COMPONENTS. VERIFY EXISTING CONDITIONS AND COORDINATE WITH GC PRIOR TO REMOVAL.
5. REMOVE EXISTING NATURAL GAS PIPING AND ASSOCIATED COMPONENTS AND CAP PIPING BACK AT MAIN. COORDINATE WITH SITE CONTRACTOR AND UTILITY PROVIDER.
6. REMOVE EXISTING PIPING THROUGH WALL AND ASSOCIATED REGULATOR AND TEMPORARILY CAP GAS MAIN FOR CONNECTION DURING NEW CONSTRUCTION. COORDINATE WITH WITH GC FOR EXTENT OF DEMOLITION REQUIRED FOR NEW EXTERIOR WALL. MAINTAIN REGULATOR TO BE INSTALLED ONCE WALL HAS BEEN CONSTRUCTED.



1 PLUMBING DEMOLITION PLAN - BELOW GRADE - AREA 'B'

1/8" = 1'-0"

NORTH



KEY PLAN

NOT TO SCALE

NORTH

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5658 | mepassociates.com
MEP PROJECT NO.: S01.17.02

DPW
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SEH

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FORT McCOY, WISCONSIN

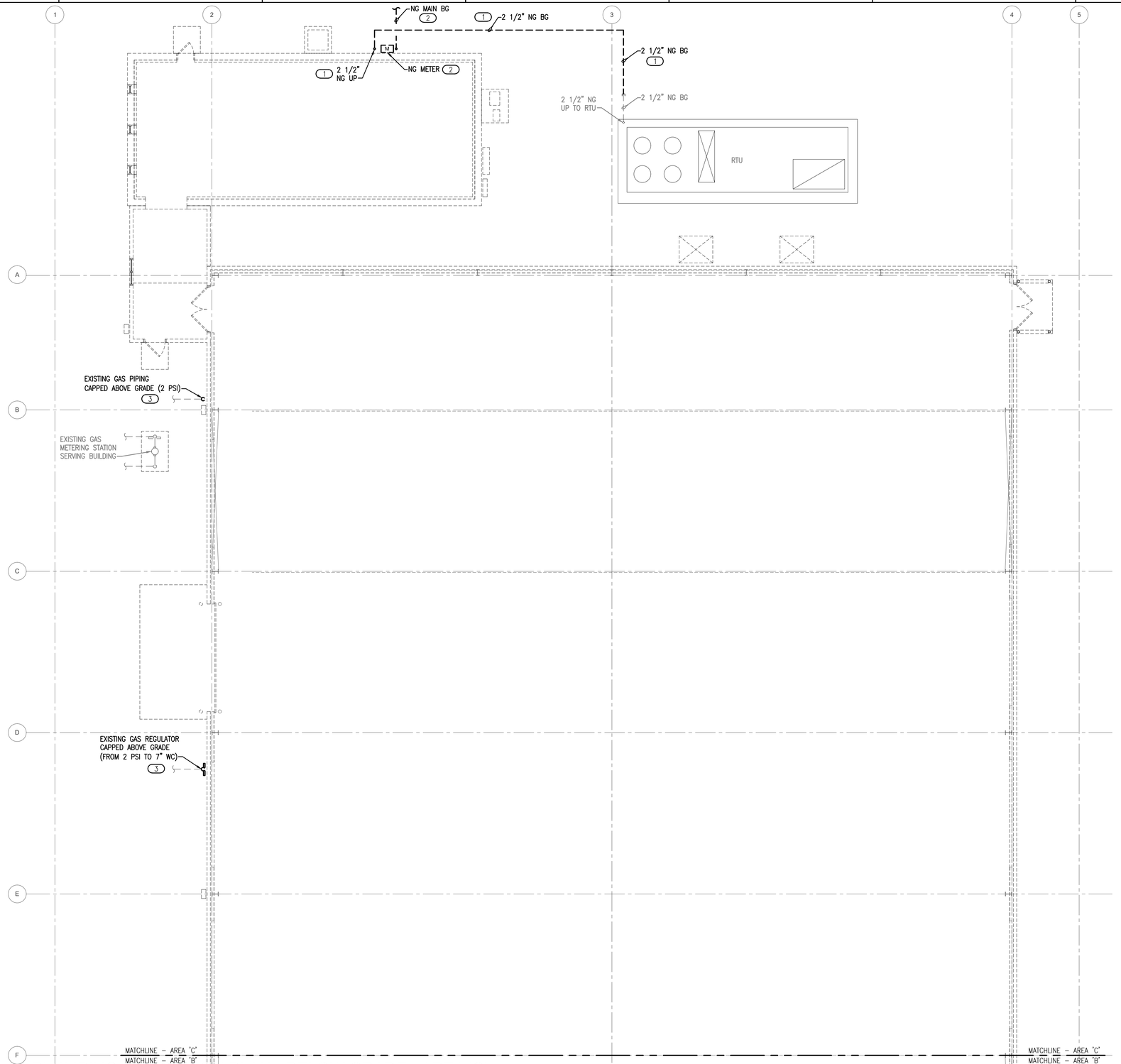
FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

Designed by: NCF		Date: 08/15/21	
Dwn by: NCF	Ckd by: TCC	Rev.	
Reviewed by:		Work Order No 1186	
Submitted by: DPW		Project Number ES 12003-2J	

PLUMBING DEMOLITION PLAN
BELOW GRADE – AREA 'B'

SHEET NUMBER:
P1.1
SHEET 54 of 116

Plot date:

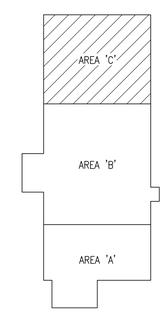


KEYED NOTES

1. REMOVE EXISTING GAS BELOW GRADE AND CAP BELOW GRADE AT UNIT AS SHOWN FOR CONNECTION TO NEW NATURAL GAS PIPING.
2. REMOVAL OF EXISTING GAS METER AND NATURAL GAS SERVICE BY SERVICE PROVIDER. PC SHALL COORDINATE WITH UTILITY PROVIDER FOR DEMOLITION AND NEW SERVICE AS REQUIRED PER PLANS.
3. CAP AND ABANDON NATURAL GAS PIPING BELOW GRADE.

1 PLUMBING DEMOLITION PLAN - BELOW GRADE - AREA 'C'

1/8" = 1'-0"



KEY PLAN

NOT TO SCALE

NORTH

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: NCF	Cad by: TCC	Date: 09/15/21	
Dwn by: NCF	Reviewed by:	Rev.	Work Order No 1166
Submitted by: DPW		Project Number ES 120035.2J	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MC COY, WI 54656

PLUMBING DEMOLITION PLAN
BELOW GRADE – AREA 'C'

SHEET NUMBER:

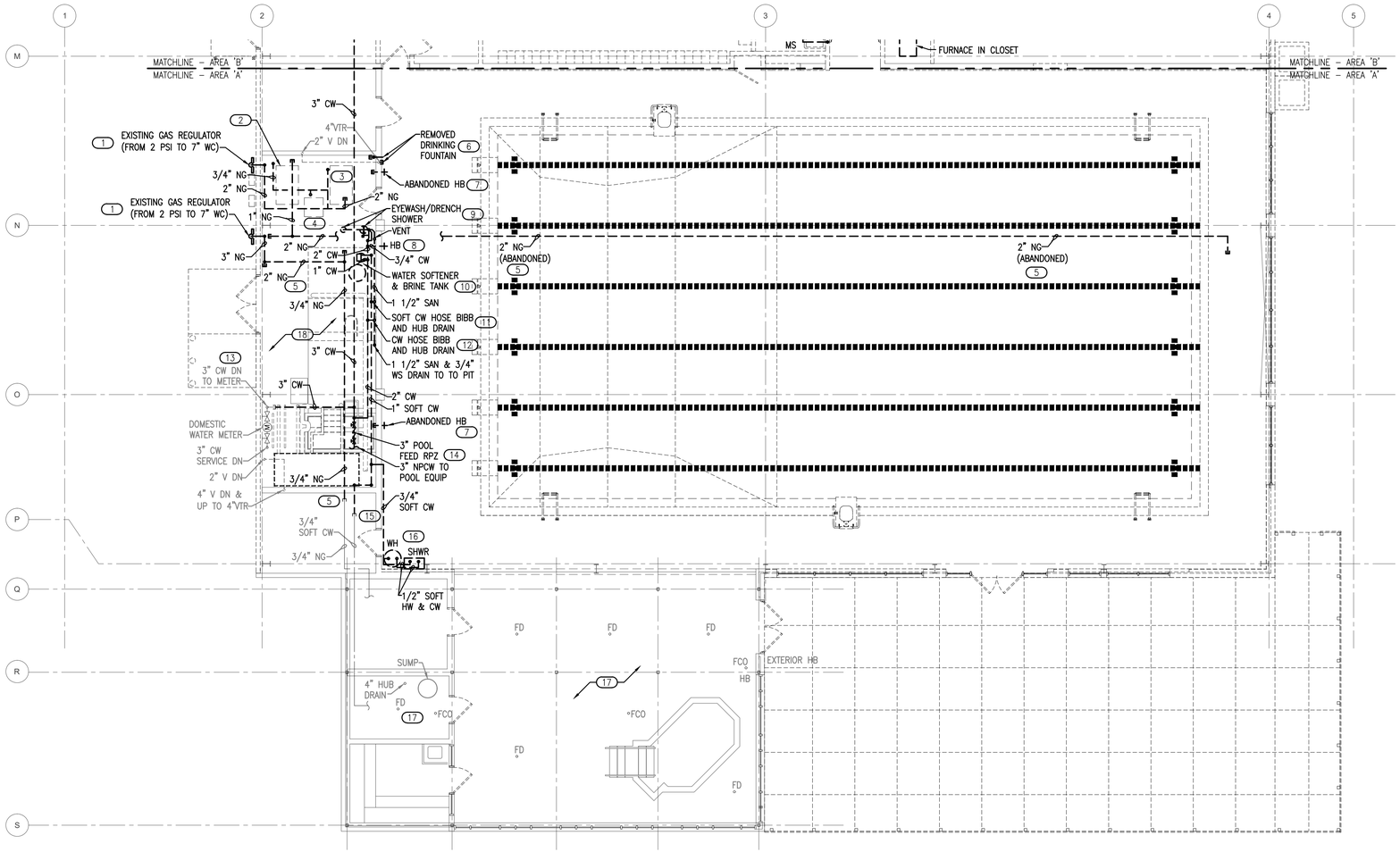
P1.2

SHEET 55 of 116

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5668 | mepassociates.com

MEP PROJECT NO.: S01.17.02

Plot date:

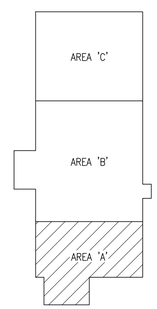


1 PLUMBING DEMOLITION PLAN - ABOVE GRADE - AREA 'A'

1/8" = 1'-0"

KEYED NOTES

1. REMOVE EXISTING PIPING THROUGH WALL AND ASSOCIATED REGULATOR AND TEMPORARILY CAP GAS MAIN FOR CONNECTION DURING NEW CONSTRUCTION. COORDINATE WITH WITH GC FOR EXTENT OF DEMOLITION REQUIRED FOR NEW EXTERIOR WALL. MAINTAIN REGULATOR TO BE INSTALLED ONCE WALL HAS BEEN CONSTRUCTED.
2. DISCONNECT AND REMOVE NATURAL GAS PIPING TO EXISTING BOILER. COORDINATE DEMOLITION WITH MC. MC TO REMOVE BOILER.
3. DISCONNECT AND REMOVE NATURAL GAS PIPING TO EXISTING POOL HEATING UNIT. COORDINATE DEMOLITION WITH POOL CONTRACTOR. POOL CONTRACTOR TO REMOVE POOL HEATING UNIT.
4. DISCONNECT AND REMOVE NATURAL GAS PIPING TO EXISTING UNIT HEATER. COORDINATE DEMOLITION WITH MC. MC TO REMOVE UNIT HEATER.
5. REMOVE ALL EXISTING AND ABANDONED GAS PIPING AND TEMPORARILY CAP SUPPLY TO SPA/WHIRLPOOL AREA FOR CONNECTION DURING NEW CONSTRUCTION.
6. REMOVE EXISTING CAPS AND PIPING ABOVE GRADE, AT WALL, THAT SERVED REMOVED DRINKING FOUNTAIN. PIPING SHALL BE CAPPED WITHIN WALL. COORDINATE WITH GC TO PATCH EXISTING WALL.
7. REMOVE ABANDONED HOSE BIBB AND ASSOCIATED PIPING. COORDINATE WITH GC TO PATCH EXISTING WALL.
8. REMOVE EXISTING HOSE BIBB AND ALL ASSOCIATED PIPING AND COMPONENTS. EXISTING WALL PENETRATION SHALL REMAIN FOR INSTALLATION OF NEW HOSE BIBB.
9. REMOVE EXISTING EYEWASH/DRENCH SHOWER AND ALL ASSOCIATED PIPING AND COMPONENTS.
10. REMOVE EXISTING WATER SOFTENER SYSTEM AND ALL ASSOCIATED PIPING AND COMPONENTS.
11. REMOVE SOFT COLD WATER HOSE BIBB AND HUB DRAIN, AND ALL ASSOCIATED PIPING AND COMPONENTS.
12. REMOVE COLD WATER HOSE BIBB AND HUB DRAIN, AND ALL ASSOCIATED PIPING AND COMPONENTS.
13. TEMPORARILY CAP 3" COLD WATER MAIN AS SHOWN FOR CONNECTION DURING NEW CONSTRUCTION.
14. DISCONNECT NON-POTABLE COLD WATER SUPPLY PIPING TO POOL SUPPLY. REMOVE BACKFLOW PREVENTER AND ALL ASSOCIATED PIPING AND COMPONENTS. COORDINATE DEMOLITION WITH POOL CONTRACTOR.
15. TEMPORARILY CAP 3/4" COLD WATER SUPPLY TO SPA/WHIRLPOOL AREA FOR CONNECTION DURING NEW CONSTRUCTION.
16. REMOVE SHOWER AND ASSOCIATED ELECTRIC WATER HEATER, PIPING AND COMPONENTS. COORDINATE DEMOLITION OF WATER HEATER WITH ELECTRICAL CONTRACTOR. MAINTAIN SHOWER AND WATER HEATER TO BE REINSTALLED DURING NEW CONSTRUCTION.
17. FIXTURES AND PIPING IN SPA/WHIRLPOOL AREA SHALL REMAIN. VERIFY POINTS OF GAS, WASTE AND WATER PIPING CONNECTIONS TO POOL AREA DURING DEMOLITION AND RECONNECT DURING NEW CONSTRUCTION.
18. REMOVE ALL ABANDONED DOMESTIC WATER PIPING IN POOL EQUIPMENT ROOM.



KEY PLAN

NOT TO SCALE

NORTH

NORTH

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: NGF	Chd by: TCC	Date: 09/15/21	
Dwn by: NGF		Rev.	
Reviewed by:		Work Order No 1186	
Submitted by: DPW		Project Number ES 12003-2J	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

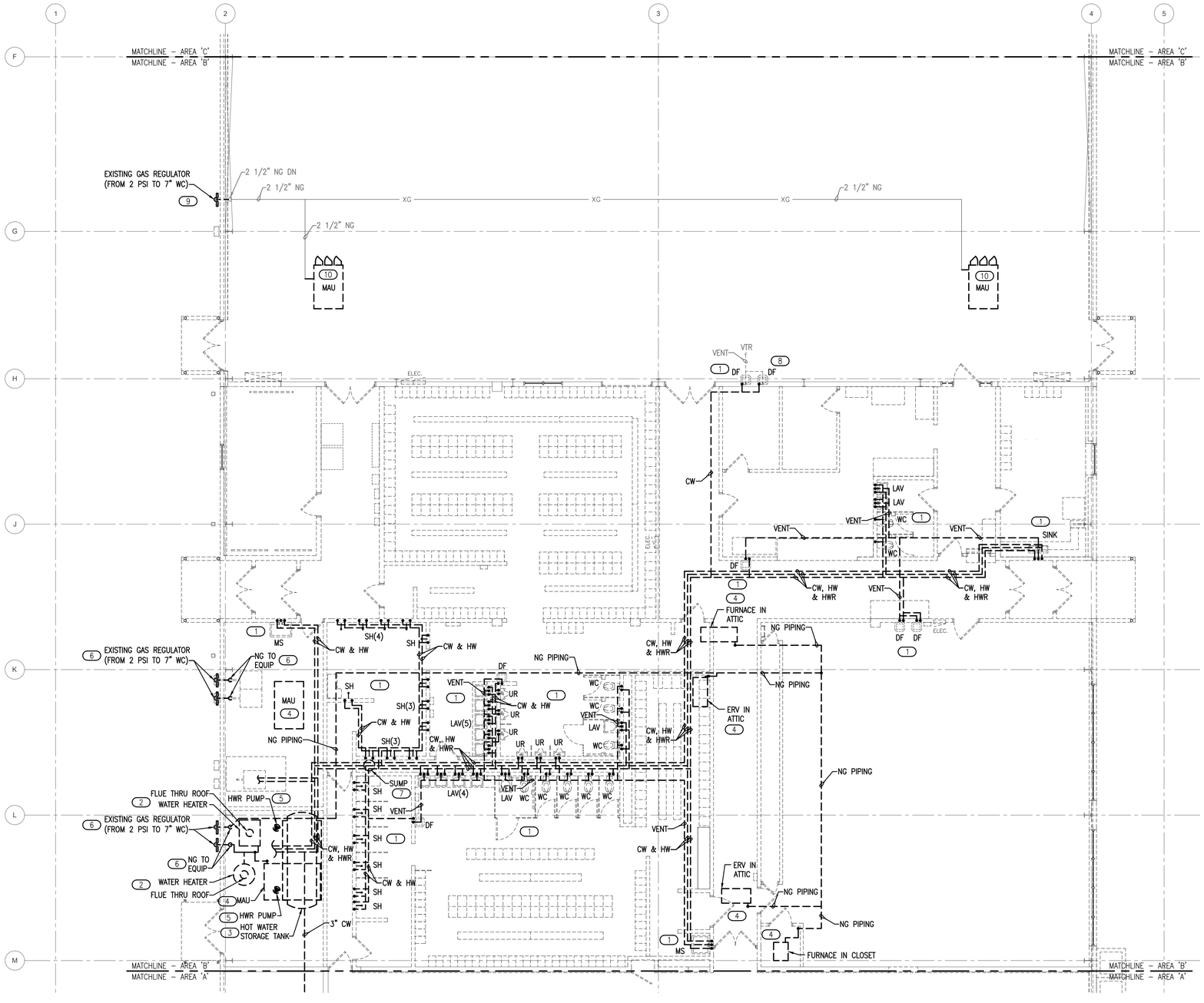
PLUMBING DEMOLITION PLAN
ABOVE GRADE - AREA 'A'

SHEET NUMBER:
P1.3
SHEET 56 of 116

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5658 | mepassociates.com

MEP PROJECT NO.: S01.17.02

Plot date:



KEYED NOTES

1. REMOVE EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING AND COMPONENTS AS REQUIRED BY PLANS. CAP SANITARY PIPING BELOW GRADE AS SHOWN ON SHEET P1.1. REMOVE ALL ABOVE GRADE PIPING AS SHOWN. VENTS THROUGH ROOF SHALL BE REMOVED.
2. REMOVE WATER HEATER AND ALL ASSOCIATED PIPING AND COMPONENTS. FLUE THROUGH ROOF SHALL BE REMOVED.
3. REMOVE DOMESTIC HOT WATER STORAGE TANK AND ALL ASSOCIATED PIPING AND COMPONENTS.
4. MC TO REMOVE MECHANICAL EQUIPMENT. PC SHALL DISCONNECT PLUMBING PIPING AND REMOVE PIPING AS REQUIRED BY PLANS. COORDINATE WITH MECHANICAL CONTRACTOR.
5. REMOVE DOMESTIC HOT WATER CIRCULATION PUMP AND ALL ASSOCIATED PIPING AND COMPONENTS. COORDINATE DEMOLITION WITH ELECTRICAL CONTRACTOR.
6. REMOVE EXISTING NATURAL GAS PIPING AND ASSOCIATED COMPONENTS AND CAP PIPING BACK AT MAIN BELOW GRADE. COORDINATE WITH SITE CONTRACTOR AND UTILITY PROVIDER.
7. REMOVE EXISTING SUMP AND ASSOCIATED PIPING AND COMPONENTS. VERIFY EXISTING CONDITIONS AND COORDINATE WITH GC PRIOR TO REMOVAL.
8. REMOVE DRINKING FOUNTAIN AND ASSOCIATED WATER SUPPLY AND COMPONENTS. TEMPORARILY CAP SANITARY PIPING IN WALL FOR CONNECTION TO NEW ELECTRIC WATER COOLER (EWC-1) DURING NEW CONSTRUCTION.
9. REMOVE EXISTING PIPING THROUGH WALL AND ASSOCIATED REGULATOR AND TEMPORARILY CAP GAS MAIN FOR CONNECTION DURING NEW CONSTRUCTION. COORDINATE WITH WITH GC FOR EXTENT OF DEMOLITION REQUIRED FOR NEW EXTERIOR WALL. MAINTAIN REGULATOR TO BE INSTALLED ONCE WALL HAS BEEN CONSTRUCTED.
10. MC TO REMOVE MECHANICAL EQUIPMENT. PC SHALL DISCONNECT NATURAL GAS PIPING AND TEMPORARILY CAP PIPING AS SHOWN FOR CONNECTION DURING NEW CONSTRUCTION. COORDINATE WITH MECHANICAL CONTRACTOR.

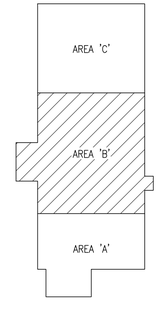
1 PLUMBING DEMOLITION PLAN - ABOVE GRADE - AREA 'B'

1/8" = 1'-0"

NORTH

KEY PLAN

NOT TO SCALE



NORTH

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engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5668 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

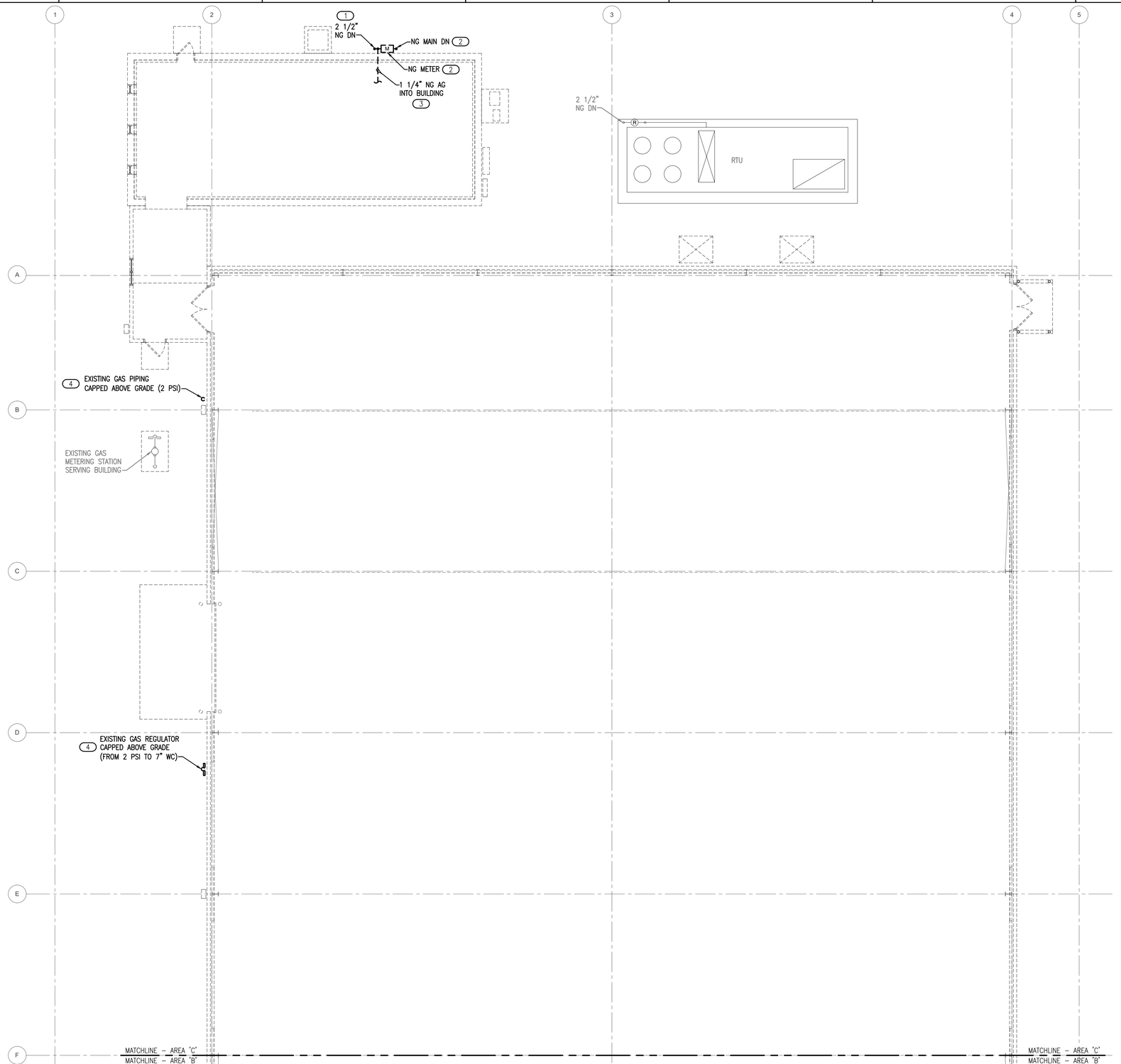
Designed by: NCF		Date: 08/16/21	
Dwn by: NCF	Ckd by: TCC	Rev.	
Reviewed by:		Work Order No 11686	
Submitted by: DPW		Project Number ES 12003-23	

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DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

PLUMBING DEMOLITION PLAN
ABOVE GRADE – AREA 'B'

SHEET NUMBER:
P1.4
SHEET 57 of 116

Plot date:

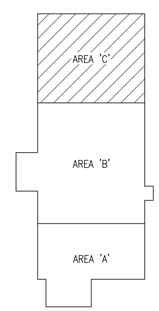


KEYED NOTES

1. REMOVE EXISTING GAS TO BELOW GRADE TO EXISTING RTU AND CAP BELOW GRADE AT UNIT AS SHOWN ON SHEET P1.2.
2. REMOVAL OF EXISTING GAS METER AND NATURAL GAS SERVICE BY SERVICE PROVIDER. PC SHALL COORDINATE WITH UTILITY PROVIDER FOR DEMOLITION AND NEW SERVICE AS REQUIRED PER PLANS.
3. REMOVE NATURAL GAS PIPING INTO BUILDING TO EQUIPMENT TO BE REMOVED.
4. CAP AND ABANDON NATURAL GAS PIPING BELOW GRADE.

1 PLUMBING DEMOLITION PLAN - ABOVE GRADE - AREA 'C'

1/8" = 1'-0"



KEY PLAN

NOT TO SCALE

NORTH

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engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5668 | mepassociates.com

MEP PROJECT NO.: S01.17.02

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MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: NCF	Cad by: TCC	Date: 09/15/21	
Dwn by: NCF	Reviewed by:	Rev.	Work Order No 1186
Submitted by: DPW		Project Number ES 120035.2J	

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DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT Mc COY, WI 54656

PLUMBING DEMOLITION PLAN
ABOVE GRADE – AREA 'C'

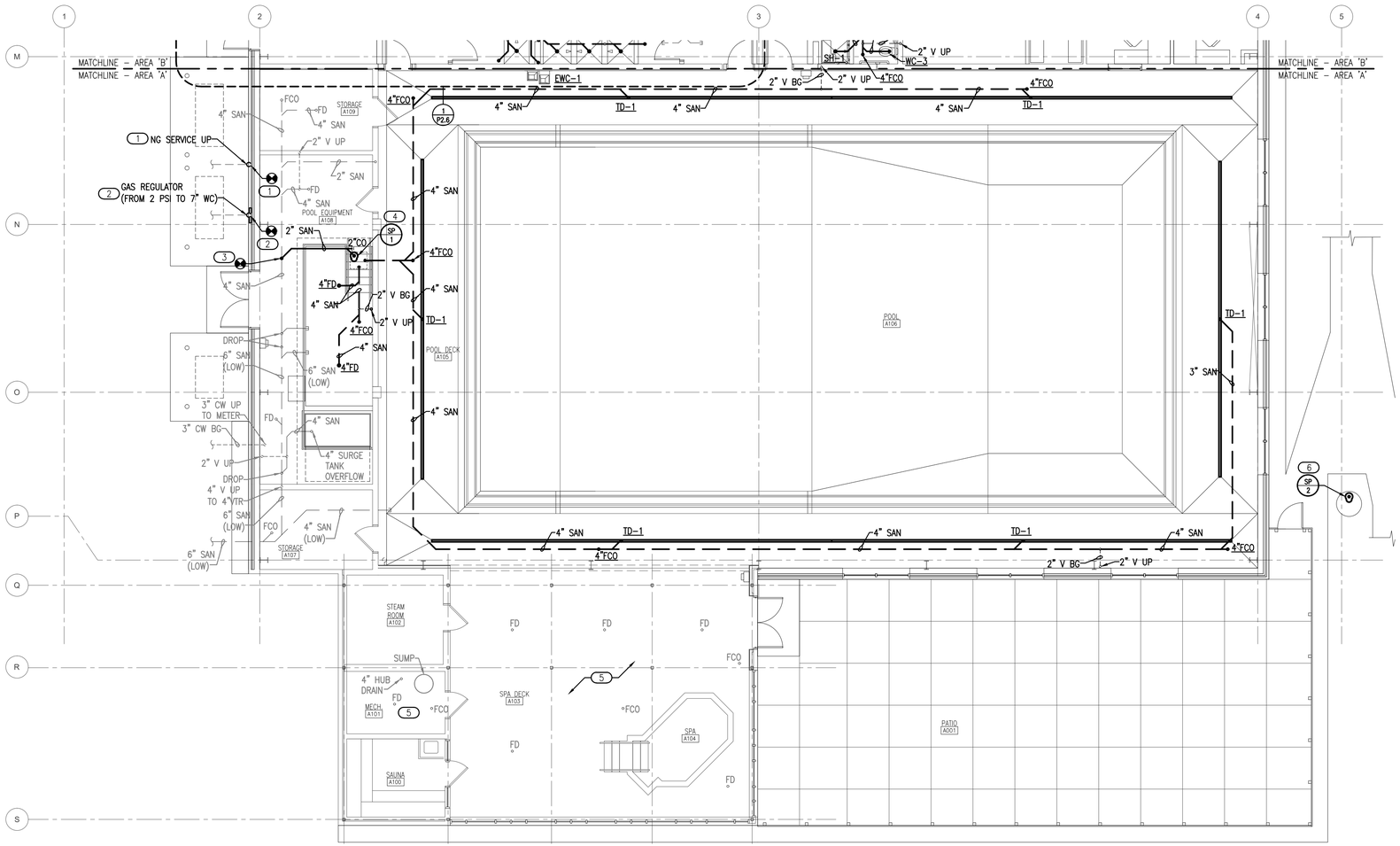
SHEET NUMBER:

P1.5

Plot date:

KEYED NOTES

1. CONNECT NEW PIPING TO EXISTING PIPING AT EXTERIOR WALL. ROUTE NATURAL GAS PIPING TO CHP-1.
2. CONNECT NEW PIPING TO EXISTING PIPING AND ROUTE THROUGH NEW WALL. REINSTALL EXISTING REGULATOR PER MANUFACTURER'S RECOMMENDATIONS ONCE NEW EXTERIOR WALL HAS BEEN CONSTRUCTED.
3. CONNECT NEW 2" PUMPED SANITARY PIPING TO TOP OF EXISTING 4" SANITARY MAIN BELOW SLAB.
4. PROVIDE SUMP PUMP IN BOTTOM OF CONCRETE SUMP TO DISCHARGE DECK DRAIN AND PIT FLOOR DRAIN WASTE TO SANITARY SEWER.
5. FIXTURES AND PIPING IN SPA/WHIRLPOOL AREA SHALL REMAIN. VERIFY POINTS OF GAS, WASTE AND WATER PIPING CONNECTIONS TO POOL AREA DURING DEMOLITION AND RECONNECT DURING NEW CONSTRUCTION.
6. PROVIDE SUMP PUMP IN EXTERIOR CROCK FOR ON-DEMAND DEWATERING AROUND POOL. COORDINATE POWER AND SWITCH REQUIREMENTS WITH EC. TERMINATE DISCHARGE PIPING JUST BELOW COVER OF CROCK WITH FIRE HOSE THREAD FOR COR TO CONNECT ONTO FOR DEWATERING. COORDINATE REQUIRED TERMINATION CONNECTION WITH COR.



1 PLUMBING PLAN - BELOW GRADE - AREA 'A'

1/8" = 1'-0"

NORTH

KEY PLAN

NOT TO SCALE

NORTH

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.9680 | F: 715.832.9668 | mepassociates.com

MEP PROJECT NO.: S01.17.02

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MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: NCF		Date: 08/15/21	
Dwn by: NCF	Ckd by: TCC	Rev.	Work Order No 1166
Reviewed by:		Submitted by: DPW	Project Number ES 12003-2J

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FORT MC COY, WI 54656

PLUMBING PLAN
BELOW GRADE – AREA 'A'

SHEET NUMBER:

P2.0

SHEET 59 of 116

Plot date:

GENERAL NOTES

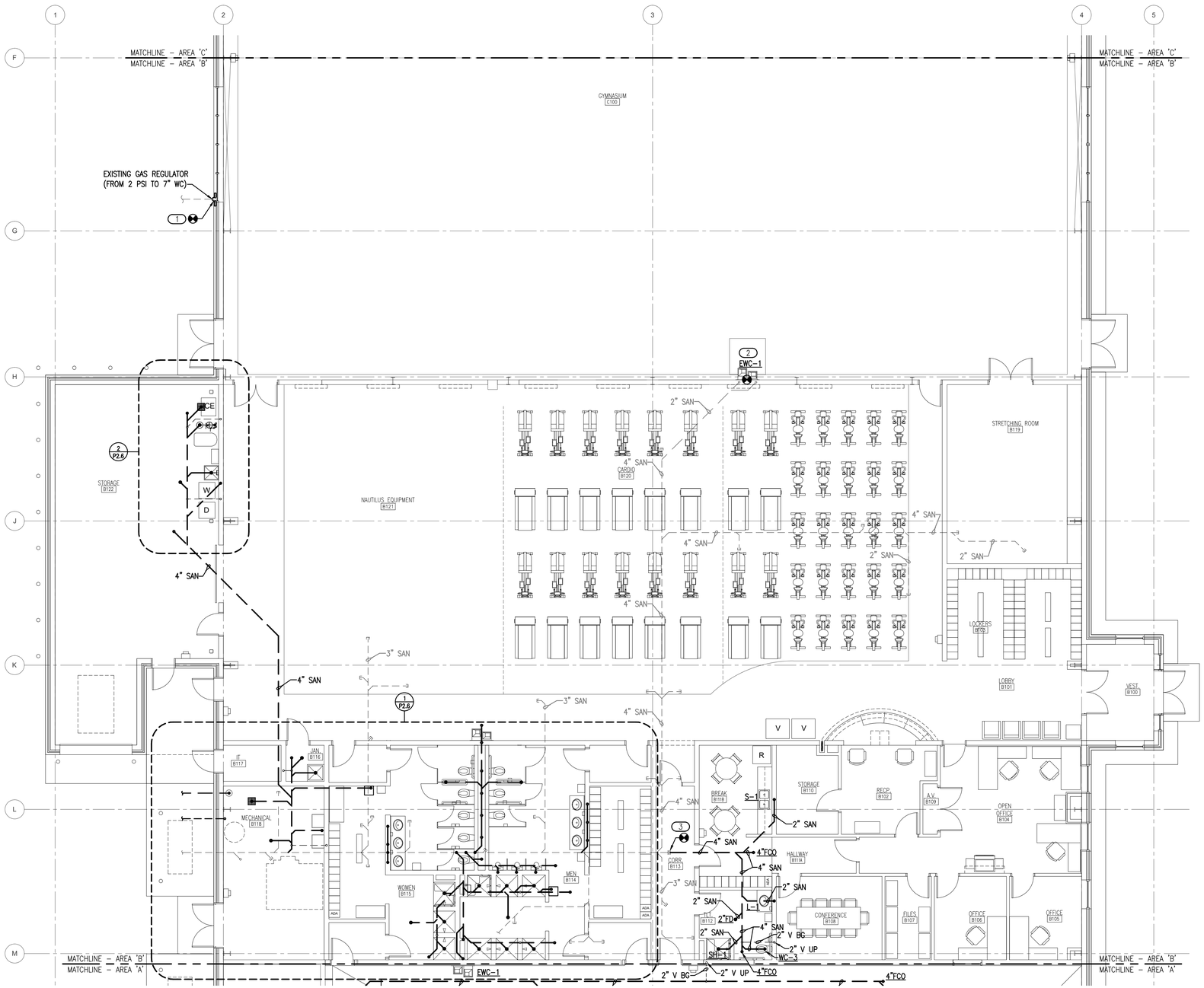
1. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P0.1 AND PLUMBING ISOMETRICS ON SHEETS P3.1 AND P3.2 FOR MORE INFORMATION AND PIPE SIZES TO INDIVIDUAL FIXTURES.
2. REFER TO DETAILS ON SHEET P4.1 FOR MORE INFORMATION.

KEYED NOTES

(1) CONNECT NEW PIPING TO EXISTING PIPING AND ROUTE THROUGH NEW WALL. REINSTALL EXISTING REGULATOR PER MANUFACTURER'S RECOMMENDATIONS ONCE NEW EXTERIOR WALL HAS BEEN CONSTRUCTED.

(2) CONNECT NEW WASTE PIPING FROM ELECTRIC WATER COOLER TO EXISTING WASTE PIPING IN WALL.

(3) CONNECT NEW 4" SANITARY PIPING TO EXISTING SANITARY PIPING BELOW GRADE.



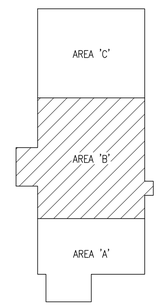
1 PLUMBING PLAN - BELOW GRADE - AREA 'B'

1/8" = 1'-0"

NORTH

KEY PLAN

NOT TO SCALE



NORTH

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engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.9680 | F: 715.832.5668 | mepassociates.com
MEP PROJECT NO.: S01.17.02

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FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

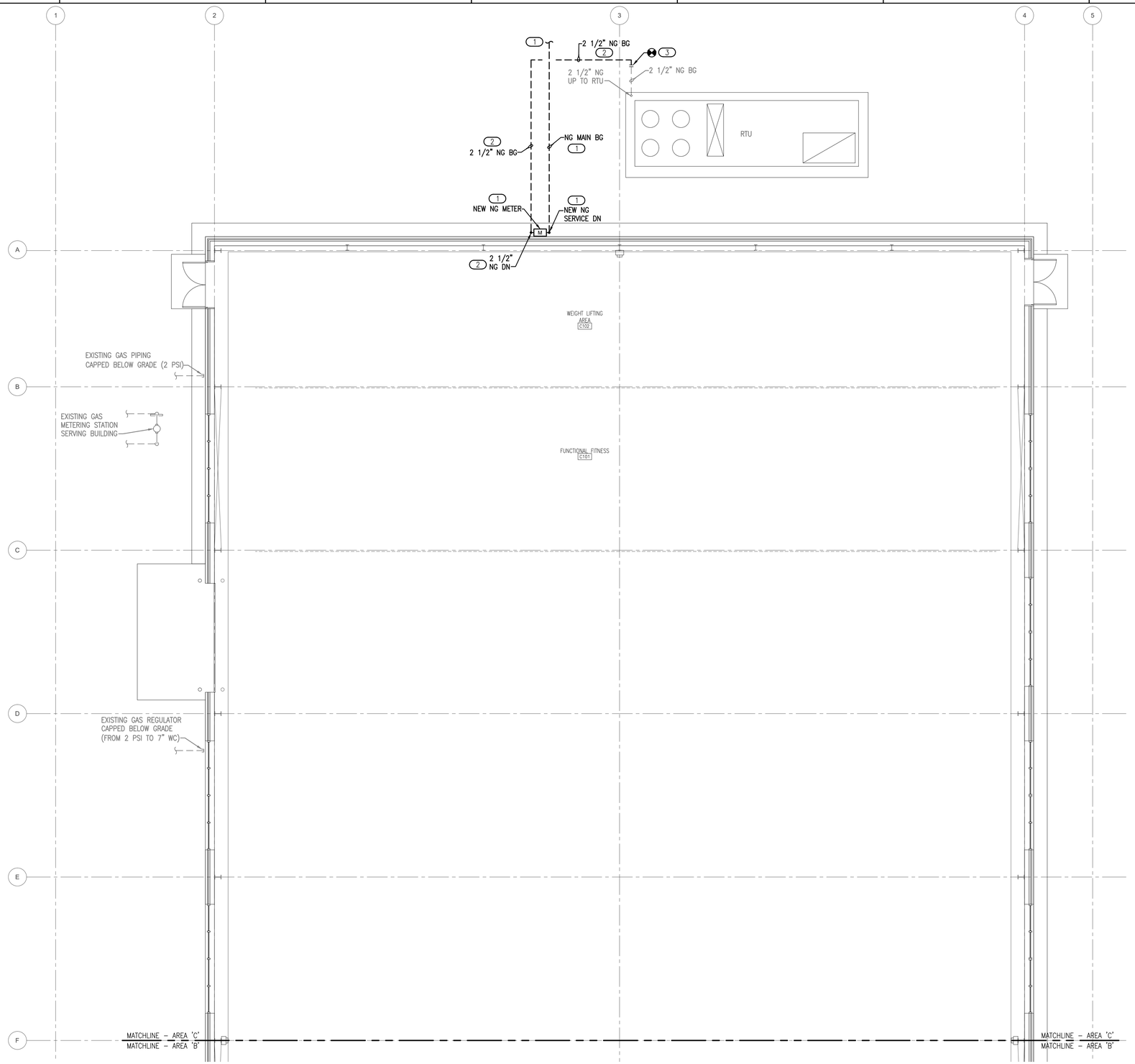
Designed by:	Cad by:	Date:
NCF	TCC	08/15/21
Dwn by:		Rev.
NCF		
Reviewed by:		Work Order No
		1166
Submitted by:		Project Number
DPW		ES 12003-2J

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 6TH AVE.
FORT MC COY, WI 54656

PLUMBING PLAN
BELOW GRADE – AREA 'B'

SHEET NUMBER:
P2.1
SHEET 60 of 116

Plot date:



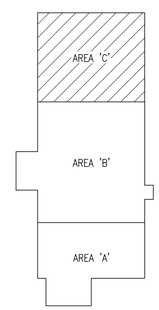
KEYED NOTES

1. NEW NATURAL GAS METER AND NATURAL GAS SERVICE BY SERVICE PROVIDER. PC SHALL COORDINATE WITH UTILITY PROVIDER FOR NEW SERVICE AS REQUIRED PER PLANS.
2. ROUTE NEW NATURAL GAS PIPING BELOW GRADE TO EXISTING GAS–FIRED RTU. VERIFY SIZE AND PRESSURE OF NATURAL GAS REQUIRED FOR EXISTING RTU.
3. CONNECT NEW NATURAL GAS PIPING TO EXISTING NATURAL GAS PIPING BELOW GRADE.

1 PLUMBING PLAN - BELOW GRADE - AREA 'C'

1/8" = 1'–0"

NORTH



KEY PLAN

NOT TO SCALE

NORTH

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2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.9680 | F: 715.832.5688 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

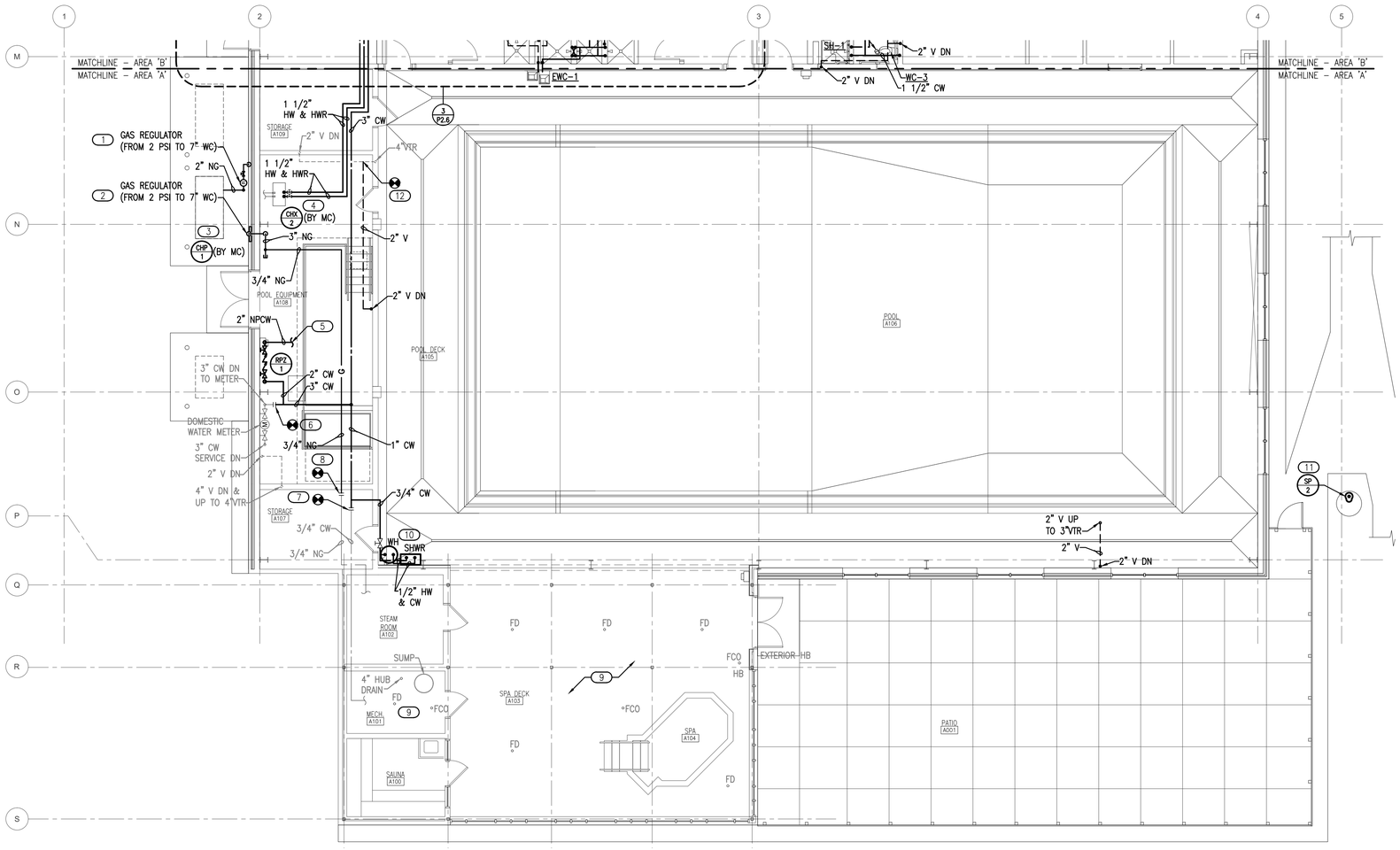
FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT McCOY, WI 54656

Designed by: NCF		Date: 08/15/21	
Dwn by: NCF	Ckd by: TCC	Rev.	
Reviewed by:		Work Order No 1166	
Submitted by: DPW		Project Number ES 120003-2J	

PLUMBING PLAN
BELOW GRADE – AREA 'C'

SHEET NUMBER:
P2.2
SHEET 61 of 116

Plot date:



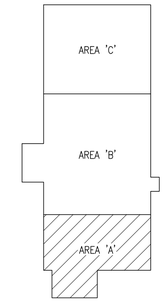
1 PLUMBING PLAN - ABOVE GRADE - AREA 'A'

1/8" = 1'-0"

NORTH

KEYED NOTES

1. CONNECT NEW PIPING TO EXISTING PIPING AT EXTERIOR WALL. ROUTE NATURAL GAS PIPING TO CHP-1.
2. CONNECT NEW PIPING TO EXISTING PIPING AND ROUTE THROUGH NEW WALL. REINSTALL EXISTING REGULATOR PER MANUFACTURER'S RECOMMENDATIONS ONCE NEW EXTERIOR WALL HAS BEEN CONSTRUCTED.
3. CONNECT NEW 2" NATURAL GAS PIPING TO MECHANICAL CHP UNIT. COORDINATE PRESSURE REQUIREMENTS, SIZE, MBH DEMAND AND LOCATION WITH MECHANICAL CONTRACTOR. PROVIDE REGULATOR, SHUTOFF VALVE, DRIP LEG W/ CAP, AND UNION AS REQUIRED. MAKE FINAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
4. CONNECT 1 1/2" HW AND HWR PIPING TO CHP HEAT EXCHANGER. CHP AND HEAT EXCHANGER SKID BY MC. COORDINATE CONNECTIONS WITH MC AND INSTALL PER MANUFACTURER RECOMMENDATIONS.
5. PROVIDE 2" NON-POTABLE COLD WATER SUPPLY FOR POOL SYSTEM. COORDINATE LOCATION AND CONNECTION WITH POOL CONTRACTOR.
6. CONNECT NEW 3" CW MAIN TO EXISTING 3" COLD WATER MAIN AT DOMESTIC WATER METER.
7. CONNECT NEW 3/4" COLD WATER PIPING TO EXISTING 3/4" COLD WATER PIPING.
8. CONNECT NEW 3/4" NG PIPING TO EXISTING 3/4" NG PIPING.
9. FIXTURES AND PIPING IN SPA/WHIRLPOOL AREA SHALL REMAIN. VERIFY POINTS OF GAS, WASTE AND WATER PIPING CONNECTIONS TO POOL AREA DURING DEMOLITION AND RECONNECT DURING NEW CONSTRUCTION.
10. CLEAN, MAINTAIN AND REINSTALL EXISTING ELECTRIC WATER HEATER AND SHOWER IN SAME LOCATION. COORDINATE POWER REQUIREMENTS WITH EC.
11. PROVIDE SUMP PUMP IN EXTERIOR CROCK FOR ON-DEMAND DEWATERING AROUND POOL. COORDINATE POWER AND SWITCH REQUIREMENTS WITH EC. TERMINATE DISCHARGE PIPING JUST BELOW COVER OF CROCK WITH FIRE HOSE THREAD FOR COR TO CONNECT ONTO FOR DEWATERING. COORDINATE REQUIRED TERMINATION CONNECTION WITH COR.
12. CONNECT NEW 2" VENT PIPING TO EXISTING VENT PIPING.



KEY PLAN

NOT TO SCALE

NORTH

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engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5688 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT McCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MC COY, WI 54656

Designed by: NCF	Chd by: TCC	Work Order No 1186	Date: 09/15/21
Dwn by: NCF	Rev.		
Reviewed by:		Submitted by: DPW	Project Number ES 12003-2J

PLUMBING PLAN
ABOVE GRADE – AREA 'A'

SHEET NUMBER:
P2.3
SHEET 62 of 116

Plot date:

GENERAL NOTES

1. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P0.1 AND PLUMBING ISOMETRICS ON SHEETS P3.1 AND P3.2 FOR MORE INFORMATION AND PIPE SIZES TO INDIVIDUAL FIXTURES.
2. REFER TO DETAILS ON SHEET P4.1 FOR MORE INFORMATION.

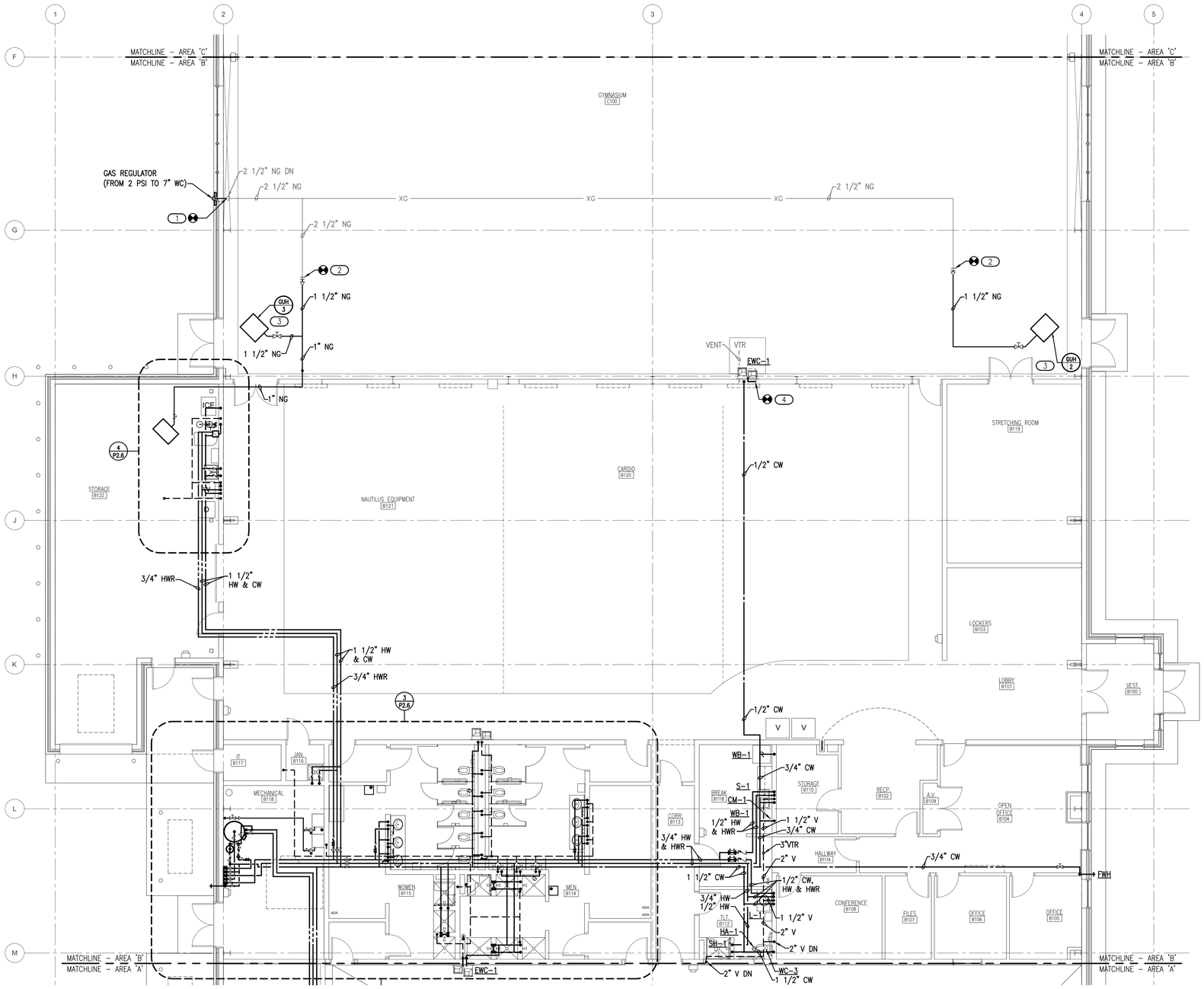
KEYED NOTES

(1) CONNECT NEW PIPING TO EXISTING PIPING AND ROUTE THROUGH NEW WALL. REINSTALL EXISTING REGULATOR PER MANUFACTURER'S RECOMMENDATIONS ONCE NEW EXTERIOR WALL HAS BEEN CONSTRUCTED.

(2) CONNECT NEW NATURAL GAS PIPING TO EXISTING NATURAL GAS PIPING.

(3) CONNECT NEW NATURAL GAS PIPING TO MECHANICAL UNIT. COORDINATE PRESSURE REQUIREMENTS, SIZE, MBH DEMAND AND LOCATION WITH MECHANICAL CONTRACTOR. MAKE FINAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.

(4) CONNECT NEW WASTE PIPING FROM ELECTRIC WATER COOLER TO EXISTING WASTE PIPING IN WALL.



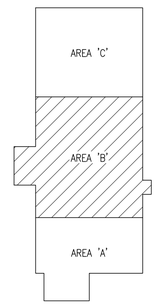
1 PLUMBING PLAN - ABOVE GRADE - AREA 'B'

1/8" = 1'-0"

NORTH

KEY PLAN

NOT TO SCALE



NORTH

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2720 Arbor Court | Eau Claire, WI 54701
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MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

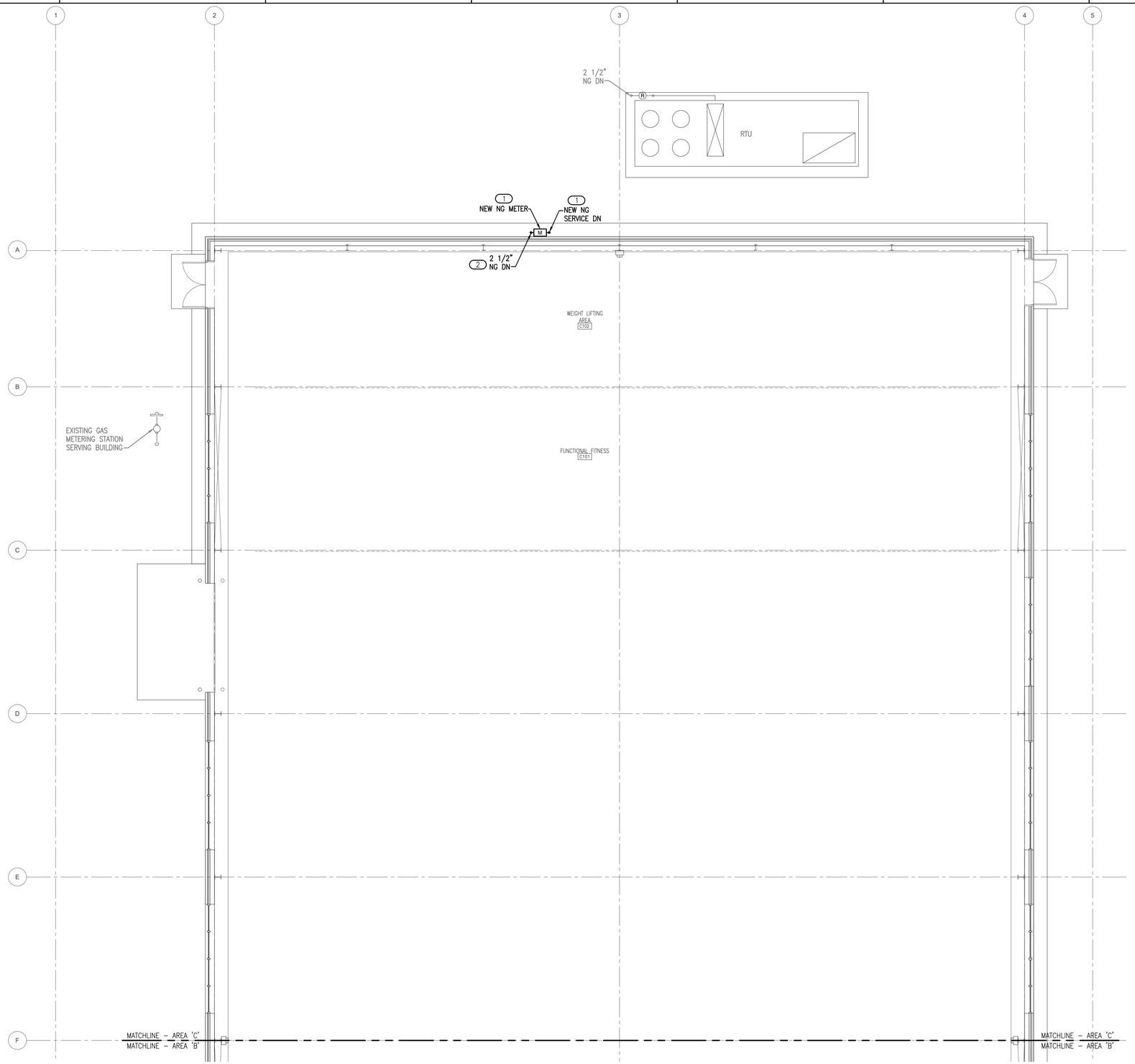
Designed by: NCF	Ckd by: TCC	Date: 08/15/21	
Dwn by: NCF		Rev.	
Reviewed by:		Work Order No 11166	
Submitted by: DPW		Project Number ES 12003-2J	

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DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 6TH AVE.
FORT MC COY, WI 54656

PLUMBING PLAN
ABOVE GRADE – AREA 'B'

SHEET NUMBER:
P2.4
SHEET 63 of 116

Plot date:



KEYED NOTES

1. NEW NATURAL GAS METER AND NATURAL GAS SERVICE BY SERVICE PROVIDER. PC SHALL COORDINATE WITH UTILITY PROVIDER FOR NEW SERVICE AS REQUIRED PER PLANS.
2. ROUTE NEW NATURAL GAS PIPING BELOW GRADE TO EXISTING GAS–FIRED RTU. VERIFY SIZE AND PRESSURE OF NATURAL GAS REQUIRED FOR EXISTING RTU.

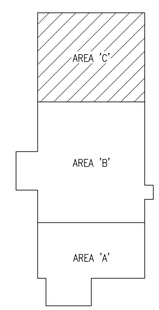
1 PLUMBING PLAN - ABOVE GRADE - AREA 'C'

1/8" = 1'–0"

NORTH

KEY PLAN

NOT TO SCALE



NORTH

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT McCOY, WI 54656

Designed by: NCF	Date: 08/15/21
Dwn by: NCF	Ckd by: TCC
Reviewed by:	Rev.
Submitted by: DPW	Work Order No 1166
	Project Number ES 120003-2J

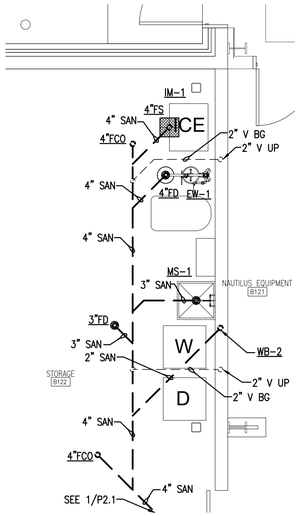
PLUMBING PLAN
ABOVE GRADE – AREA 'C'

SHEET NUMBER:
P2.5
SHEET 64 of 116

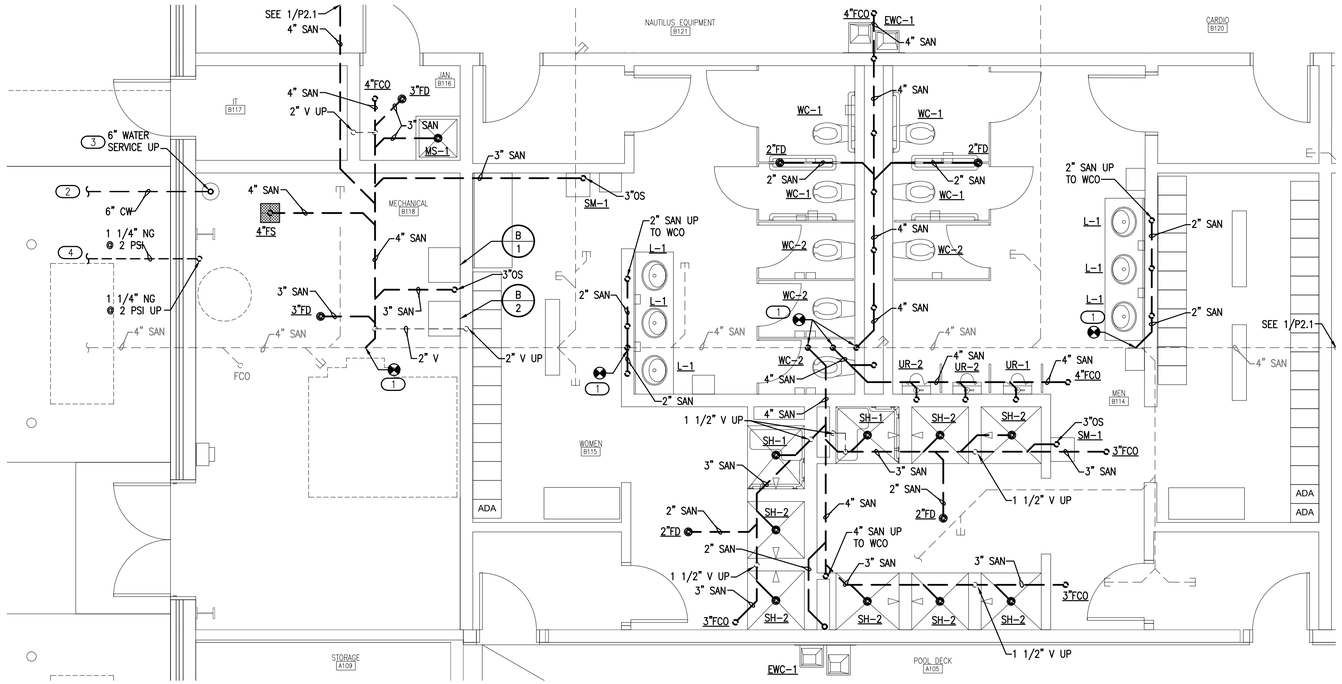
MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.9680 | F: 715.832.5688 | mepassociates.com

MEP PROJECT NO.: S01.17.02

Plot date:



2 ENLARGED PLBG PLAN - B122 - BG
1/4" = 1'-0"



1 ENLARGED PLUMBING PLAN - BELOW GRADE (REFER TO P2.1)
1/4" = 1'-0"

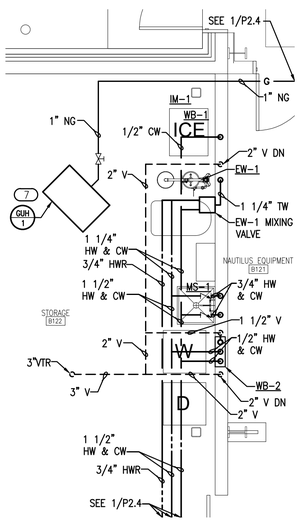
NORTH

GENERAL NOTES

1. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P0.1 AND PLUMBING ISOMETRICS ON SHEETS P3.1 AND P3.2 FOR MORE INFORMATION AND PIPE SIZES TO INDIVIDUAL FIXTURES.
2. REFER TO DETAILS ON SHEET P4.1 FOR MORE INFORMATION.
3. REFER TO SHEETS P2.1 AND P2.4 AREA 'B' PLANS FOR CONTINUATIONS BEYOND LIMITS OF ENLARGED PLANS ON THIS SHEET.

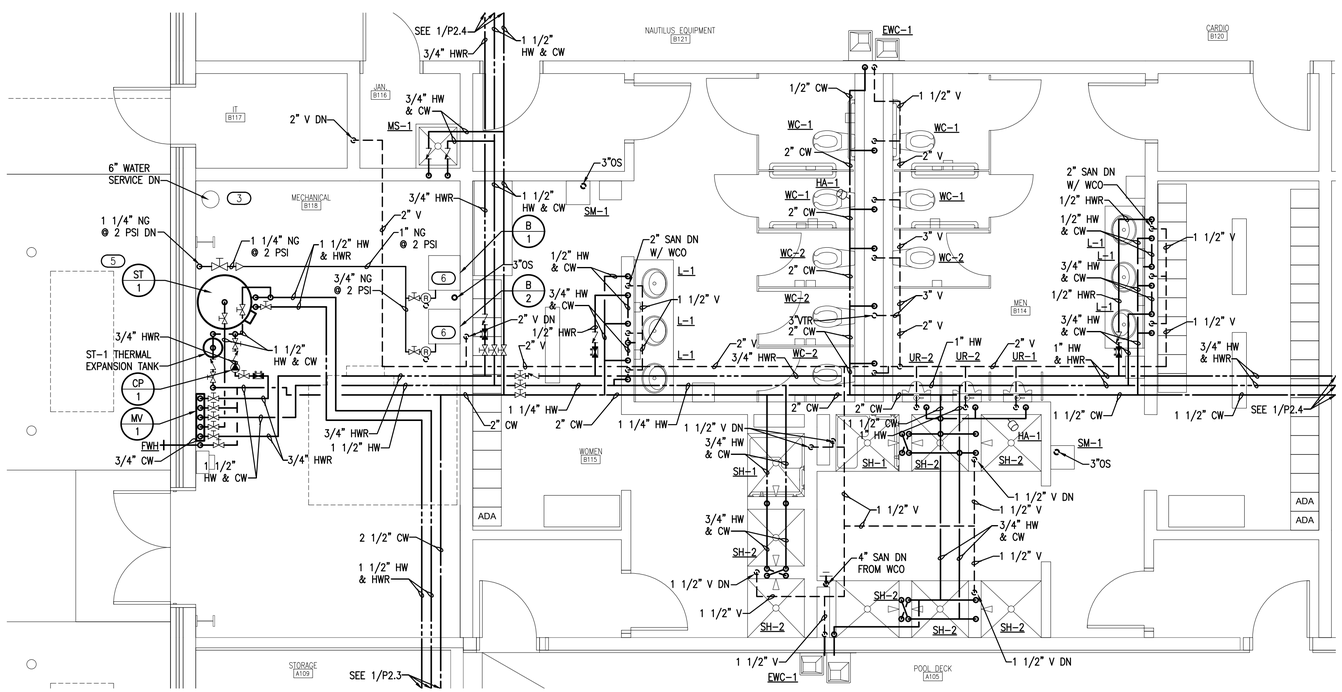
KEYED NOTES

1. CONNECT NEW SANITARY WASTE PIPING TO EXISTING SANITARY MAIN BELOW GRADE.
2. COORDINATE NEW 6" WATER SERVICE WITH SITE CONTRACTOR.
3. PROVIDE 6" FLANGED CONNECTION FOR FIRE PROTECTION SERVICE. COORDINATE WITH FIRE PROTECTION CONTRACTOR.
4. COORDINATE NEW NATURAL GAS MAIN AT 2 PSI WITH NATURAL GAS UTILITY PROVIDER.
5. PROVIDE 1 1/2" CW SUPPLY, 1 1/2" HW MAIN TO FIXTURES, AND 1 1/2" HW & HWR TO AND FROM CHX-2 IN MECHANICAL A108. INSTALLATION AND FINAL CONNECTIONS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
6. COORDINATE NATURAL GAS DEMAND AND SIZE OF CONNECTION TO NEW BOILER WITH MECHANICAL CONTRACTOR. PROVIDE 3/4" NATURAL GAS AT 2 PSI TO BOILER'S REGULATOR. PROVIDE REGULATOR, SHUTOFF VALVE, DRIP LEG W/ CAP, AND UNION AS REQUIRED. MAKE FINAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS. VENT REGULATOR INDIVIDUALLY THROUGH ROOF.
7. CONNECT NEW NATURAL GAS PIPING TO MECHANICAL UNIT. COORDINATE PRESSURE REQUIREMENTS, SIZE, MBH DEMAND AND LOCATION WITH MECHANICAL CONTRACTOR. MAKE FINAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.



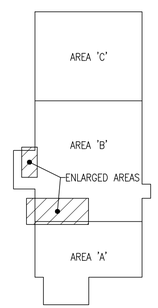
4 ENLARGED PLBG PLAN - B122 - AG
1/4" = 1'-0"

NORTH



3 ENLARGED PLUMBING PLAN - ABOVE GRADE (REFER TO P2.4)
1/4" = 1'-0"

NORTH



KEY PLAN
NOT TO SCALE

NORTH

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engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.9680 | F: 715.832.5688 | mepassociates.com
MEP PROJECT NO.: S01.17.02

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FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

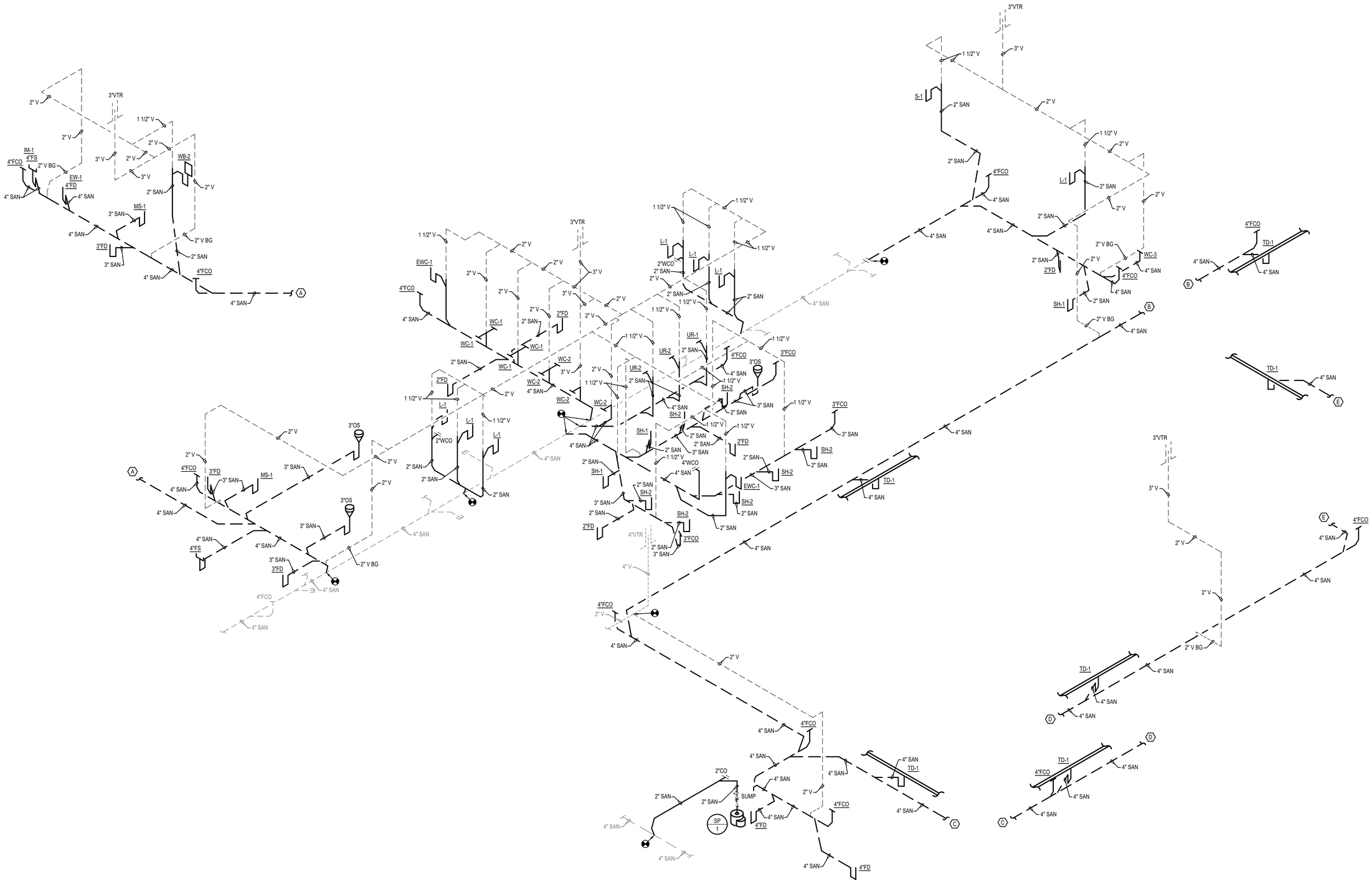
Designed by: NCF	Date: 08/15/21		
Dwn by: NCF	Ckd by: TCC	Rev.	Work Order No 1166
Reviewed by:			Project Number ES 12003-2J
Submitted by: DPW			

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MCCOY, WI 54656

ENLARGED PLUMBING PLANS

SHEET NUMBER:
P2.6
SHEET 65 of 116

Plot date:



1 PLUMBING ISOMETRIC - SANITARY SYSTEM

NOT TO SCALE

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5668 | mepassociates.com

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MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

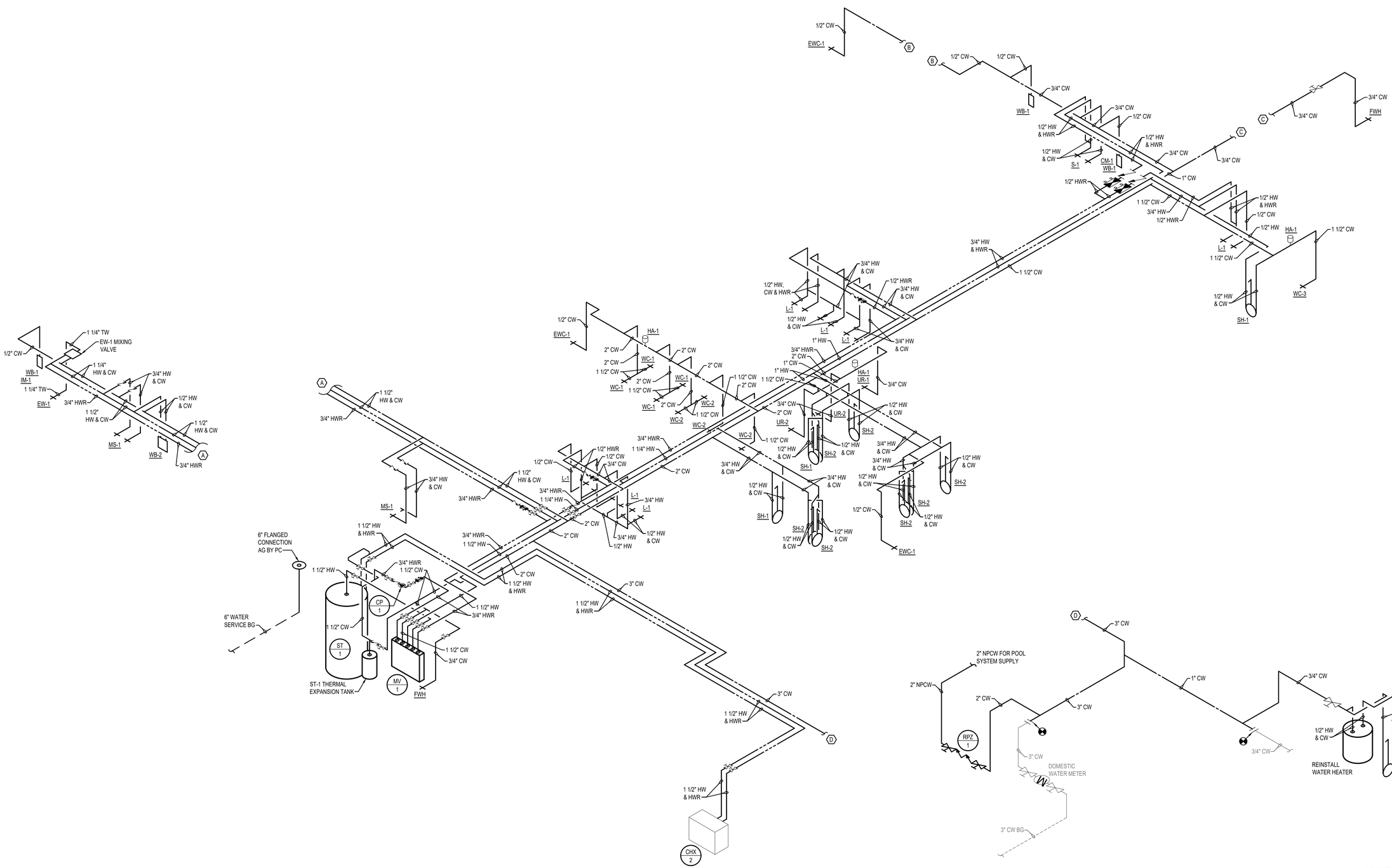
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PLUMBING ISOMETRIC
SANITARY SYSTEM

Designed by: NCF	Drawn by: NCF	Date: 09/15/21	Work Order No 1186
	Ckd by: TCC	Rev.	
	Reviewed by:	Submitted by: DPW	Project Number ES 12003-2J

SHEET NUMBER:
P3.1
SHEET 66 of 116

Plot date:



1 PLUMBING ISOMETRIC - DOMESTIC WATER SYSTEM

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2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.9680 | F: 715.832.9688 | mepassociates.com

MEP PROJECT NO.: S01.17.02

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MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 11122
FITNESS CENTER
FORT McCOY, WISCONSIN

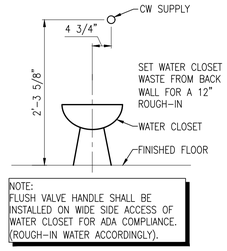
Designed by: NCF	Cad by: TCC	Date: 08/15/21	
Dwn by: NCF	Reviewed by:	Rev.	
		Work Order No 11168	Project Number ES 12003-2J
	Submitted by: DPW		

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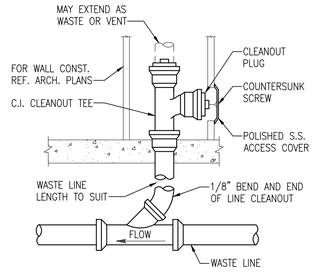
PLUMBING ISOMETRIC
DOMESTIC WATER SYSTEM

SHEET NUMBER:
P3.2
SHEET 67 of 116

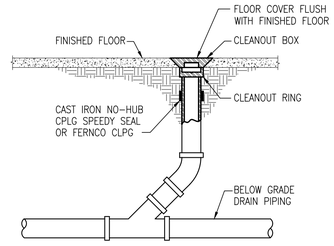
Plot date:



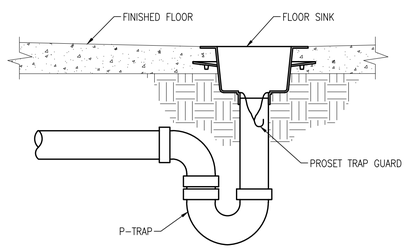
5 ADA WATER CLOSET ROUGH-IN DETAIL
NOT TO SCALE



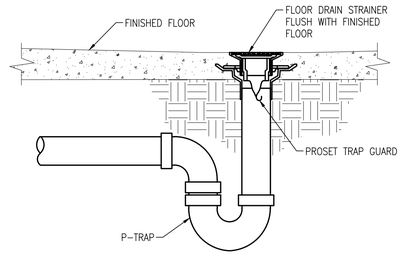
4 WALL CLEANOUT DETAIL
NOT TO SCALE



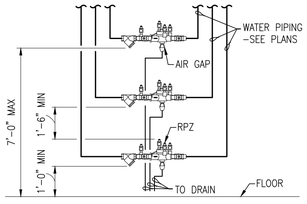
3 INTERIOR CLEANOUT DETAIL
NOT TO SCALE



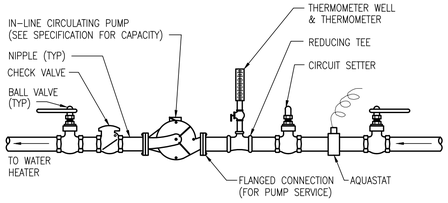
2 FLOOR SINK DETAIL
NOT TO SCALE



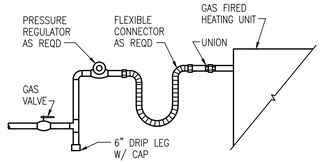
1 FLOOR DRAIN DETAIL
NOT TO SCALE



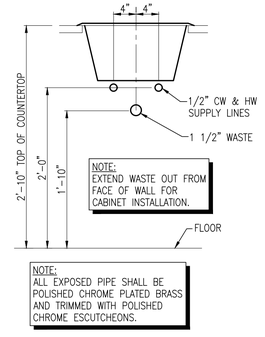
10 RPZ DETAIL
NOT TO SCALE



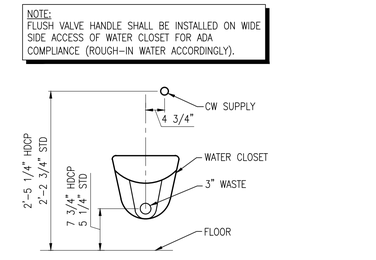
9 HOT WATER RECIRCULATION PUMP
NOT TO SCALE



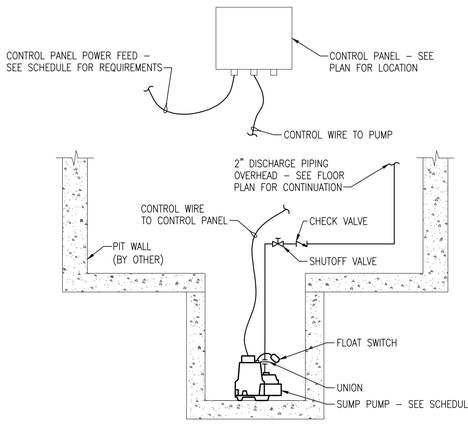
8 TYPICAL GAS CONNECTION DETAIL
NOT TO SCALE



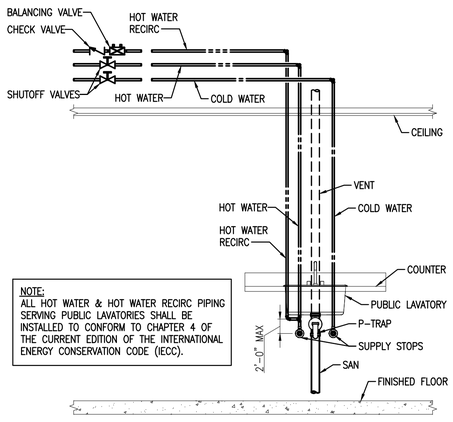
7 LAVATORY ROUGH-IN DETAIL
NOT TO SCALE



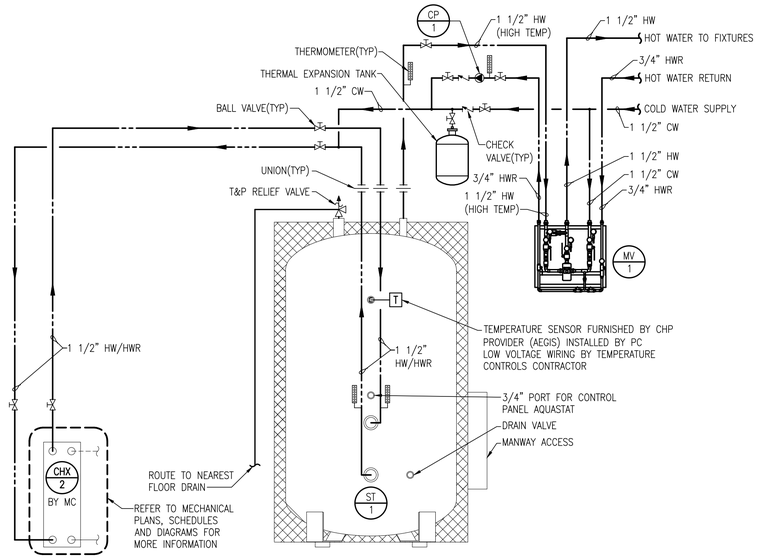
6 WATER CLOSET ROUGH-IN DETAIL
NOT TO SCALE



13 PIT SUMP PUMP DETAIL
NOT TO SCALE



12 PUBLIC LAVATORY HW RECIRC DETAIL
NOT TO SCALE



11 DOMESTIC WATER HEATING DETAIL
NOT TO SCALE

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engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.9680 | F: 715.832.5668 | mepassociates.com
MEP PROJECT NO.: S01.17.02

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FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: NCF	Ckd by: TCC	Rev.	Date: 08/15/21
Dwn by: NCF		Work Order No 1166	Project Number ES 12003-2J
Reviewed by:			
Submitted by: DPW			

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MC COY, WI 54656

PLUMBING DETAILS

SHEET NUMBER:
P4.1
SHEET 68 of 116

Plot date:

GENERAL MECHANICAL NOTES

1. ALL WORK SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES.
2. THE CONTRACTOR SHALL PAY FOR ALL FEES, PERMITS, LICENSES, ETC., NECESSARY FOR PROPER COMPLETION OF THE WORK.
3. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
4. VERIFY ALL EXISTING CONDITIONS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN CONTRACT DRAWINGS AND ACTUAL CONDITIONS.
5. EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED AND CAPPED AS REQUIRED BY CODE OR LOCAL ORDINANCE.
6. THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDITIONAL DATA SHALL BE FROM THE ENGINEER THROUGH WRITTEN CLARIFICATION ONLY. VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS BEFORE PROCEEDING WITH ANY PORTION OF ANY WORK. THE CONTRACTOR SHALL PROVIDE ALL OFFSETS AND TRANSITIONS REQUIRED TO MEET EXISTING CONDITIONS.
7. THE CONTRACTOR SHALL PERFORM WORK IN A SKILLED AND PROFESSIONAL MANNER.
8. ALL CONTRACTORS ARE RESPONSIBLE TO FIELD COORDINATE WORK SCHEDULE WITH OWNER REPRESENTATIVE.
9. THE CONTRACTOR SHALL WORK AND COORDINATE WITH THE OTHER TRADES.
10. ALL EQUIPMENT SHALL BE NEW AND IN UNDAMAGED CONDITION. ANY EQUIPMENT FOUND DEFECTIVE SHALL BE IMMEDIATELY REMOVED FROM THE PROJECT.
11. PROVIDE 3 COPIES OF AN OPERATION AND MAINTENANCE MANUAL FOR ALL MAJOR EQUIPMENT REQUIRING SERVICE. MAJOR EQUIPMENT INCLUDES BUT IS NOT LIMITED TO COILS, FANS, AND CONTROL WIRING DIAGRAMS. EACH PIECE OF EQUIPMENT SHALL STATE THE CONTRACT DATE AND THE NAME, ADDRESS AND PHONE NUMBER FOR THE PRIME CONTRACTOR, SUBCONTRACTOR PERFORMING THE INSTALLATION, AND THE LOCAL VENDOR FOR SPARE PARTS. THE MANUALS SHALL CONTAIN MAINTENANCE INSTRUCTIONS REQUIRED FOR THE INSTALLED EQUIPMENT. MANUALS SHALL BE BOUND IN A THREE RING HARD COVER BINDER. O & M MANUALS SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL WALK THROUGH OF THE PROJECT.
12. PROVIDE 2 HOURS OF OWNER TRAINING FOR THE INSTALLED EQUIPMENT. TRAINING SHALL BE HELD ONLY AFTER ALL OF THE EQUIPMENT IS INSTALLED AND PROPER OPERATION IS VERIFIED.
13. CONTRACTOR SHALL SUBMIT A CERTIFIED REPORT INDICATING SYSTEM PERFORMANCE INCLUDING, BUT NOT LIMITED TO, VOLTAGE AND AMPERAGE MEASUREMENTS OF ALL EQUIPMENT GREATER THAN 1/3 H.P. WATER BALANCE MEASUREMENTS OF EACH COIL AND PUMP. AIR BALANCE MEASUREMENTS OF OUTSIDE AIR DELIVERY, AIR HANDLING UNIT SUPPLY, SUPPLY DIFFUSERS, EXHAUST AND RETURN GRILLES. AIR BALANCE SHALL BE WITHIN 10% OF DESIGN CONDITIONS. THE REPORT CERTIFICATION SHALL BE AS FOLLOWS:
    I (name) of (company) CERTIFY THAT ALL MEASUREMENTS, FIGURES AND STATEMENTS INDICATED IN THIS REPORT WERE TAKEN BY ME OR UNDER MY SUPERVISION AND ARE ACCURATE AS OF (date). DESIGN FLOWS WERE BASED UPON PLANS DATED (xx/xx/xx).
14. DUCT MATERIAL SHALL BE GALVANIZED OR ALUMINUM CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD 2005 AND SMACNA HVAC AIR DUCT LEAKAGE MANUAL 2012 FOR THE PRESSURE AND SEAL CLASS LISTED IN THE PROJECT DUCTWORK/INSULATION SCHEDULE.
15. DUCT SIZES LISTED ON PLANS ARE THE REQUIRED CLEAR INTERIOR DIMENSIONS.
16. SUPPLY AND RETURN BRANCH DUCTS MAY BE INSULATED FLEX DUCT IF THE RUN IS LESS THAN 5 FEET IN LENGTH. ANY LENGTHS OVER 5 FEET SHALL BE RIGID DUCTWORK, DUCT SHALL BE THE SAME SIZE AS THE LISTED DIFFUSER THROAT UNLESS NOTED OTHERWISE.
17. PROVIDE VOLUME CONTROL DAMPERS WHERE INDICATED AND AT ALL TAKEOFFS, BOTH SUPPLY AND RETURN SYSTEMS, AND MAJOR DUCT RUNS. DAMPERS SHALL BE FACTORY-FABRICATED WITH ZINC-PLATED, DIE-CAST CONTROL HARDWARE. CONTROL HARDWARE SHALL INCLUDE HEAVY GAUGE DIAL AND HANDLE WITH ELEVATED PLATFORM FOR INSULATED DUCT MOUNTING.
18. PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS CONFORMING TO SMACNA HVAC DUCT CONSTRUCTION STANDARD 2005 FIG. 4-2 TYPE RE-3 WITH STANDARD RADIUS. WHERE SPACE PERMITS, PROVIDE RADIUSED ELBOWS IN ACCORDANCE WITH FIGURES 4-2, TYPE RE-1.
19. ALL RECTANGULAR MAIN TO RECTANGULAR BRANCH CONNECTIONS, BOTH CONVERGING AND DIVERGING CONFIGURATIONS, SHALL HAVE A 45 DEG. ENTRY TAP CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD 2005 FIG. 4-6.
20. DIFFUSER PATTERN 4-WAY UNLESS OTHERWISE INDICATED. PROVIDE FIBERGLASS DUCT INSULATION WITH VAPOR BARRIER AS SCHEDULED UNLESS NOTED OTHERWISE.
21. MECHANICAL CONTRACTOR TO REPAIR ANY DAMAGE DONE TO THE FIRE PROOFING WHILE INSTALLING THE MECHANICAL TRADES. SEAL ALL PENETRATIONS THROUGH RATED STRUCTURES WITH UL LISTED FIRE SEAL DESIGNED FOR THE SPECIFIED APPLICATION.
22. EXHAUST FLUE PIPE AND FITTINGS MATERIAL SHALL BE 24 GA AL 294C HEAT FAB CHIMNEY AND FLUE CONNECTIONS.
23. HEATING SYSTEM INSULATION TO BE 1 1/2" THICK RIGID FIBERGLASS INSULATION.
    23.A. MINIMUM NOMINAL DENSITY OF 3 lbs. PER cu. ft., AND THERMAL CONDUCTIVITY OF NOT MORE THAN 0.23 AT 75° F, MINIMUM COMPRESSIVE STRENGTH OF 25 PSF AT 10% DEFORMATION RATED FOR SERVICE TO 450° F.
    23.B. PIPING: WHITE KRAFT REINFORCED FOIL VAPOR BARRIER ALL SERVICE JACKET, FACTORY APPLIED TO INSULATION WITH A SELF SEALING PRESSURE SENSITIVE ADHESIVE LAP, MAXIMUM PERMEANCE OF .02 PERMS AND MINIMUM BEACH PUNCTURE RESISTANCE OF 50 UNITS.
24. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
25. THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OR AS OTHERWISE REQUIRED IN THE SPECIFICATIONS.
26. MECHANICAL CONTRACTOR TO INSTALL ON THE BOILERS WATER LINE FLEX CONNECTORS, MUFFLERS AND VIBRATION PADS. FLEX CONNECTORS, MUFFLERS AND VIBRATION ARE PADS PROVIDED BY THE BOILER MANUFACTURER.
27. MECHANICAL CONTRACTOR TO INCLUDE THE TEST AND BALANCE, AND ANY PERMIT FEES IN THEIR BID.
28. MECHANICAL CONTRACTOR SHALL VERIFY ALL ROOFTOP EQUIPMENT WEIGHTS, SIZES, LOCATIONS AND OPENINGS REQUIRED AND SHALL COORDINATE ANY CHANGES WITH THE ARCHITECT.
29. UPON PROJECT COMPLETION, RECORD (AS-BUILT) DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO THE OWNER AND ENGINEER. ALL CHANGES IN PIPING AND DUCTWORK ARRANGEMENTS SHALL BE NOTED ON THE RECORD DRAWINGS.

MECHANICAL HVAC LEGEND

EXHAUST AIR DUCT (DOWN)	
EXHAUST AIR DUCT (UP)	
RETURN AIR DUCT (DOWN)	
RETURN AIR DUCT (UP)	
OUTSIDE OR SUPPLY AIR DUCT (UP)	
OUTSIDE OR SUPPLY AIR DUCT (DOWN)	
24x12 DUCT SIZE	
NEW DUCTWORK	
FLEX DUCT	
EXISTING DUCTWORK	
DEMOLITION LINETYPE	
SUPPLY AIR CEILING DIFFUSER	
CEILING DIFFUSER W/BLANKOFF	
RETURN AIR GRILLE	
EXHAUST AIR GRILLE	
DIFFUSER, GRILLE, AND REGISTER CALL-OUTS: CALL-OUT CFM OR CALL-OUT CFM	
MANUAL BALANCING DAMPER	
PIPE PENETRATION THROUGH FIRE RATED WALL	
FIRE DAMPER (X=F) SMOKE DAMPER (X=S) FIRE/SMOKE DAMPER (X=C)	
M MOTORIZED DAMPER	
SCHEDULED EQUIPMENT TAG	
T THERMOSTAT	
H HUMIDISTAT	
S REMOTE SENSOR	
DUCT SMOKE DETECTOR	
NEW TO EXISTING	

ACC	AIR COOLED CHILLER
AD	ACCESS DOOR
AF	AIR FILTER
AHU	AIR HANDLING UNIT
B	BOILER
BDD	BACK DRAFT DAMPER
BT	BUFFER TANK
CD	CEILING DIFFUSER
CR	CEILING REGISTER
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ERV VENTILATOR	ENERGY RECOVERY
ET TANK	DIAPHRAGM EXPANSION
FD	FIRE DAMPER
H	HUMIDIFIER
HX	HEAT EXCHANGER
L	LOUVER
MD DAMPER	MOTOR OPERATED
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OED	OPEN END DUCT
RA	RETURN AIR
RF	RETURN FAN
RG	RETURN AIR GRILLE
RH	HOT WATER RE-HEAT
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SAT	SOUND ATTENUATORS
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
TG	TRANSFER GRILLE
UH	UNIT HEATER

MECHANICAL PIPING LEGEND

DOUBLE ELBOW DOWN	DOUBLE ELBOW DOWN (AT CORNER)
ELBOW DOWN	ELBOW UP
TEE	TEE DOWN
ELBOW	TEE UP
ELBOW DOWN TO TEE	END CAP
TYPICAL TEE CONNECTION (PLANS ONLY)	REDUCER
AUTOMATIC AIR VENT	NEW TO EXISTING PIPE CONNECTION
WATER FLOW MEASURING DEVICE	FLOW DIRECTION ARROW
PIPE ANCHOR	MANUAL AIR VENT (MAV)
PIPE GUIDE / SLEEVE	PRESSURE GAUGE
BALANCING VALVE	UNION
CIRCUIT SETTER	PRESSURE RELIEF VALVE
PRESSURE REDUCING VALVE	PT PRESSURE/TEMPERATURE PORT
BALL VALVE/SHUT-OFF VALVE	AIR SEPARATOR
SILENT CHECK VALVE	PUMP OR
GLOBE VALVE	PUMP
TWO-WAY VALVE	FLEX CONNECTION
THREE-WAY VALVE	THERMOMETER
BUTTERFLY VALVE	STEAM GAUGE SIPHON
TRIPLE DUTY VALVE	STEAM TRAP & DRIP ASSEMBLY
SHUT-OFF COCK	COIL
STRAINER	PIPE VIEW
STRAINER WITH BLOWDOWN	AI ANALOG INPUT
SUCTION DIFFUSER W/ STRAINER AND BLOWDOWN	AO ANALOG OUTPUT
DRAIN VALVE	DI DIGITAL INPUT
VACUUM BREAKER	DO DIGITAL OUTPUT
FLOW CONTROL VALVE W/ PRESSURE DIFFERENTIAL SENSOR	DP
DIFFERENTIAL PRESSURE SENSOR	DP

MECHANICAL SHEET INDEX

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ABBREVIATIONS

A	AMP
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLER UNIT
AI	ANALOG INPUT
ALT	ALTERNATE
ANNC	ANNUNCIATOR
AO	ANALOG OUTPUT
APPRX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
BDD	BACK DRAFT DAMPER
BLDG	BUILDING
BOD	BOTTOM OF DUCTWORK
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BTUH	BRITISH THERMAL UNIT PER HOUR
BTWN	BETWEEN
C	CENTER
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CHAR	CHARACTERISTICS
CI	CAST IRON
CIRC	CIRCUIT
CL	CENTERLINE
CLR	CLEAR
CO	CLEAN OUT
COL	COLUMN
COMP	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATE
CONT	CONTINUOUS
COP	COEFFICIENT OF PERFORMANCE
CR	CEILING REGISTER
CW	CHILLED/COLD WATER
CWR	COLD WATER RETURN
CWS	COLD WATER SUPPLY
DB	DRY BULB
DEG	DEGREE
DEPT	DEPARTMENT
DET	DETAIL
DG	DOOR GRILLE
DI	DIGITAL INPUT
DIA OR Ø	DIAMETER
DIM	DIMENSION
DN	DOWN
DO	DIGITAL OUTPUT
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECM	ELECTRONIC CONTROL MODULE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ELT	ENTERING LIQUID TEMPERATURE
EQ	EQUAL
EQUIP	EQUIPMENT
ERV	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
EST	ESTIMATE OR ESTIMATED
ET	DIAPHRAGM EXPANSION TANK
ETR	EXISTING TO REMAIN
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
F&T	FLOAT AND THERMOSTATIC
FA	FRESH AIR
FD	FLOOR DRAIN
FLR	FLOOR
FPM	FEET PER MINUTE
FT	FOOT (FEET)
FURN	FURNACE
GA	GAUGE/GAGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HEIGHT
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
I/O	INPUT/OUTPUT
IA	INSTRUMENT AIR
IE	INVERT ELEVATION
IN	INCH
INSUL	INSULATION
J-BOX	JUNCTION BOX
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LLT	LEAVING LIQUID TEMPERATURE
LOC	LOCATION
LPR	LOW PRESSURE RETURN
LPS	LOW PRESSURE STEAM
LV	LOW VOLTAGE
LWT	LEAVING WATER TEMPERATURE
MA	MAKE-UP AIR OR MIXED AIR
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MIN	MINIMUM
MFR	MANUFACTURER
NFC	NOT FOR CONSTRUCTION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OED	OPEN END DUCT
OPNG	OPENING
OPP	OPPOSITE
P	PUMP
PC	PLUMBING CONTRACTOR
PERP	PERPENDICULAR
PLBG	PLUMBING
PNL	PANEL
PPH	POUNDS PER HOUR
PRES	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PWR	POWER
QTY	QUANTITY
R	RADIUS
RA	RETURN AIR
REL	RELIEF
REQD	REQUIRED
REV	REVERSE OR REVISION
RG	RETURN AIR GRILLE
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAN	SANITARY
SCH	SCHEDULE
SECT	SECTION
SEP	SEPARATOR
SF	SQUARE FEET
SG	SUPPLY GRILLE
SHT	SHEET
SHWR	SHOWER
SIM	SIMILAR
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STM	STEAM
T&B	TEST AND BALANCE OR TOP AND BOTTOM
T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
TEMP	TEMPERATURE OR TEMPORARY
TG	TRANSFER GRILLE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VAR	VARIABLE OR VARIES
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VS	VENT STACK
VTR	VENT THRU ROOF
W/	WITH
W/IN	WITHIN
W/O	WITH OUT
WB	WET BULB
WC	WATER COLUMN (INCHES OF)
WG	WATER GAUGE
WP	WEATHER PROOF
WP	WORKING PRESSURE
WT	WEIGHT

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: ACE	Ckd by: SC	Date: 09/15/21	
Dwn by: ACE	Reviewed by:	Rev.	Work Order No 1186
	Submitted by: DPW		Project Number ES 12003-23

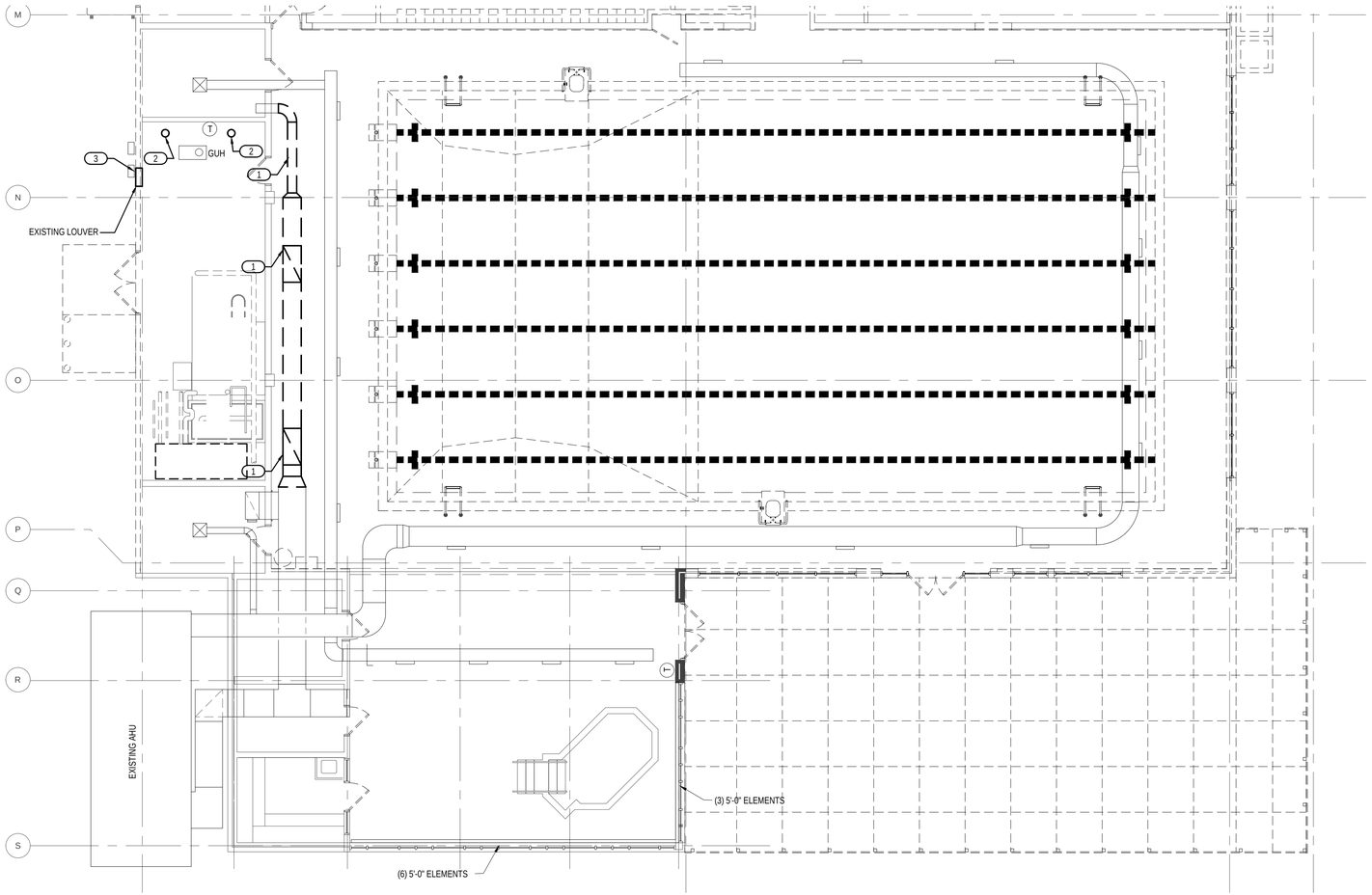
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DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MC COY, WI 54656

MECHANICAL COVER SHEET

SHEET NUMBER:
M0.1
SHEET 69 of 116

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5668 | mepassociates.com
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Plot date:



GENERAL NOTES

1. REMOVE ALL VENT PIPING FROM EXISTING EQUIPMENT PENETRATING LOWER ROOF IN AREA A AND B. COORDINATE WITH ROOF CONTRACTOR FOR PENETRATIONS ON NEW EQUIPMENT AND EXISTING EQUIPMENT REMAINING IN PLACE.

KEYED NOTES

(1) REMOVE EXISTING RETURN DIFFUSERS AND RETURN DUCTWORK DASHED AND IN BOLD COMPLETE.

(2) REMOVE VENT PIPING UP THROUGH ROOF, COORDINATE WITH ROOFING CONTRACTOR.

(3) REMOVE EXISTING POOL HEATING BOILER INTAKE LOUVER.

1 MECHANICAL DEMOLITION PLAN - AREA 'A'

1/8" = 1'-0"

NORTH

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5668 | mepassociates.com

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REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

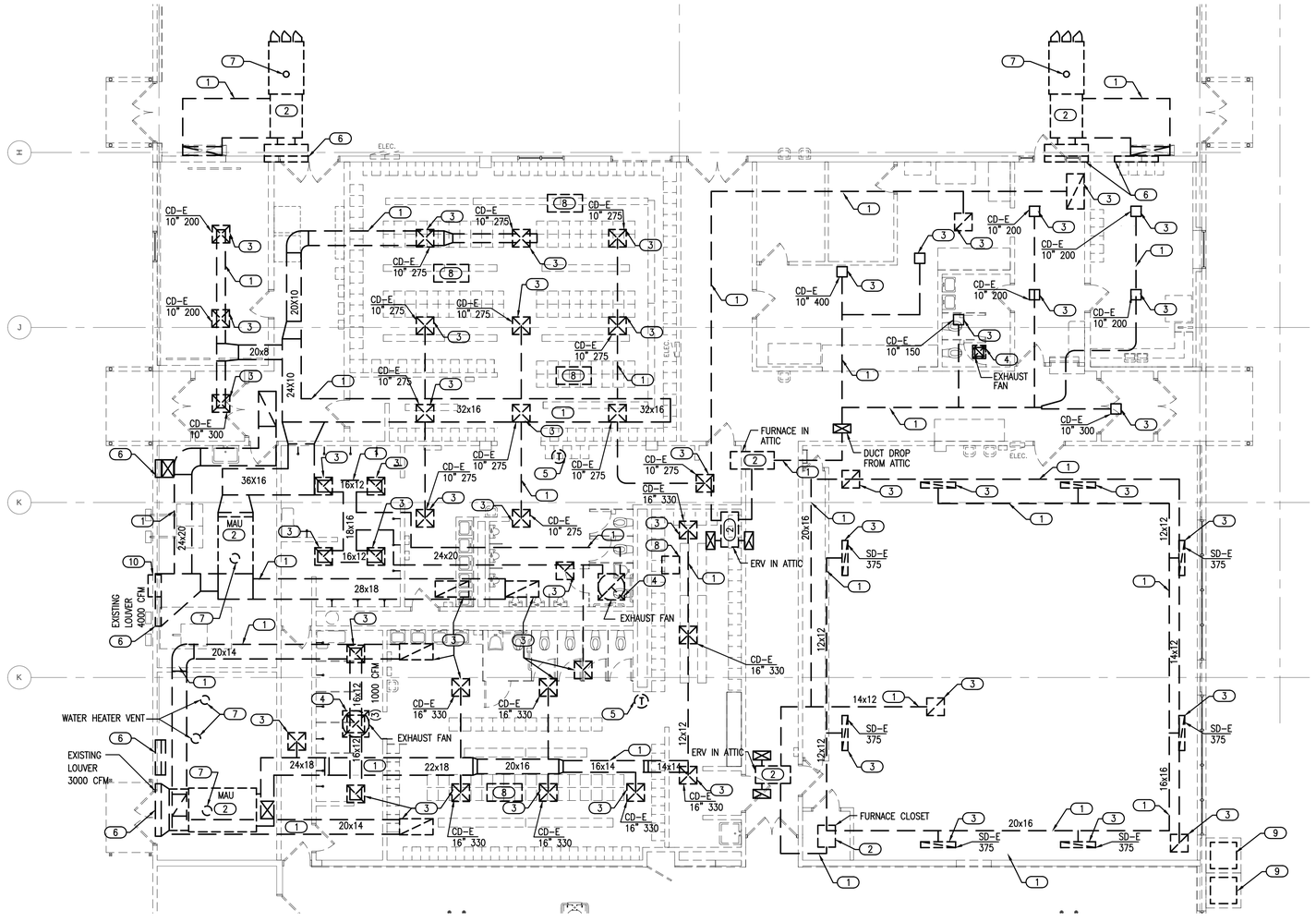
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Drawn by: ALE
Cad by: SC
Reviewed by:
Date: 09/15/21
Rev.
Work Order No 1186
Project Number ES 120093.23
Submitted by: DPW

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2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

MECHANICAL DEMOLITION PLAN AREA 'A'

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M1.0
SHEET 70 of 116

Plot date:



1 MECHANICAL DEMOLITION PLAN - AREA 'B'
1/8" = 1'-0"

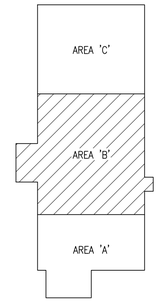
NORTH

GENERAL NOTES

1. REMOVE ALL VENT PIPING FROM EXISTING EQUIPMENT PENETRATING LOWER ROOF IN AREA A AND B. COORDINATE WITH ROOF CONTRACTOR FOR PENETRATIONS ON NEW EQUIPMENT AND EXISTING EQUIPMENT REMAINING IN PLACE.

KEYED NOTES

1. REMOVE DUCTWORK DASHED AND IN BOLD.
2. REMOVE MECHANICAL EQUIPMENT DASHED AND IN BOLD AND ALL ASSOCIATED CONTROLS. REMOVE VENT AND COMBUSTION AIR PIPING UP THROUGH ROOF, COORDINATE WITH ROOFING CONTRACTOR.
3. REMOVE DIFFUSERS AND GRILLES DASHED AND IN BOLD.
4. REMOVE EXISTING EXHAUST FANS FROM ROOF DASHED AND IN BOLD.
5. REMOVE EXISTING THERMOSTAT CONTROLS DASHED AND IN BOLD.
6. REMOVE EXISTING LOUVERS DASHED AND IN BOLD. PATCHING OF EXTERIOR WALL PROVIDED BY G.C.
7. REMOVE VENT PIPING UP THROUGH ROOF, COORDINATE WITH ROOFING CONTRACTOR.
8. REMOVE SPLIT SYSTEM CASSETTE UNIT INDOORS, CONTROLS, AND ASSOCIATED CONDENSING UNIT LOCATED ON ROOF. REMOVE ALL ASSOCIATED REFRIGERANT PIPE AND CONDENSATE PIPE.
9. REMOVE FURNACE CONDENSING UNITS, CONTROLS, AND ALL ASSOCIATED REFRIGERANT PIPING DASHED AND IN BOLD COMPLETE.
10. REMOVE WALL AC UNIT DASHED AND IN BOLD. PATCHING OF EXTERIOR WALL PROVIDED BY G.C.



KEY PLAN
NOT TO SCALE

NORTH

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5668 | mepassociates.com

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DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

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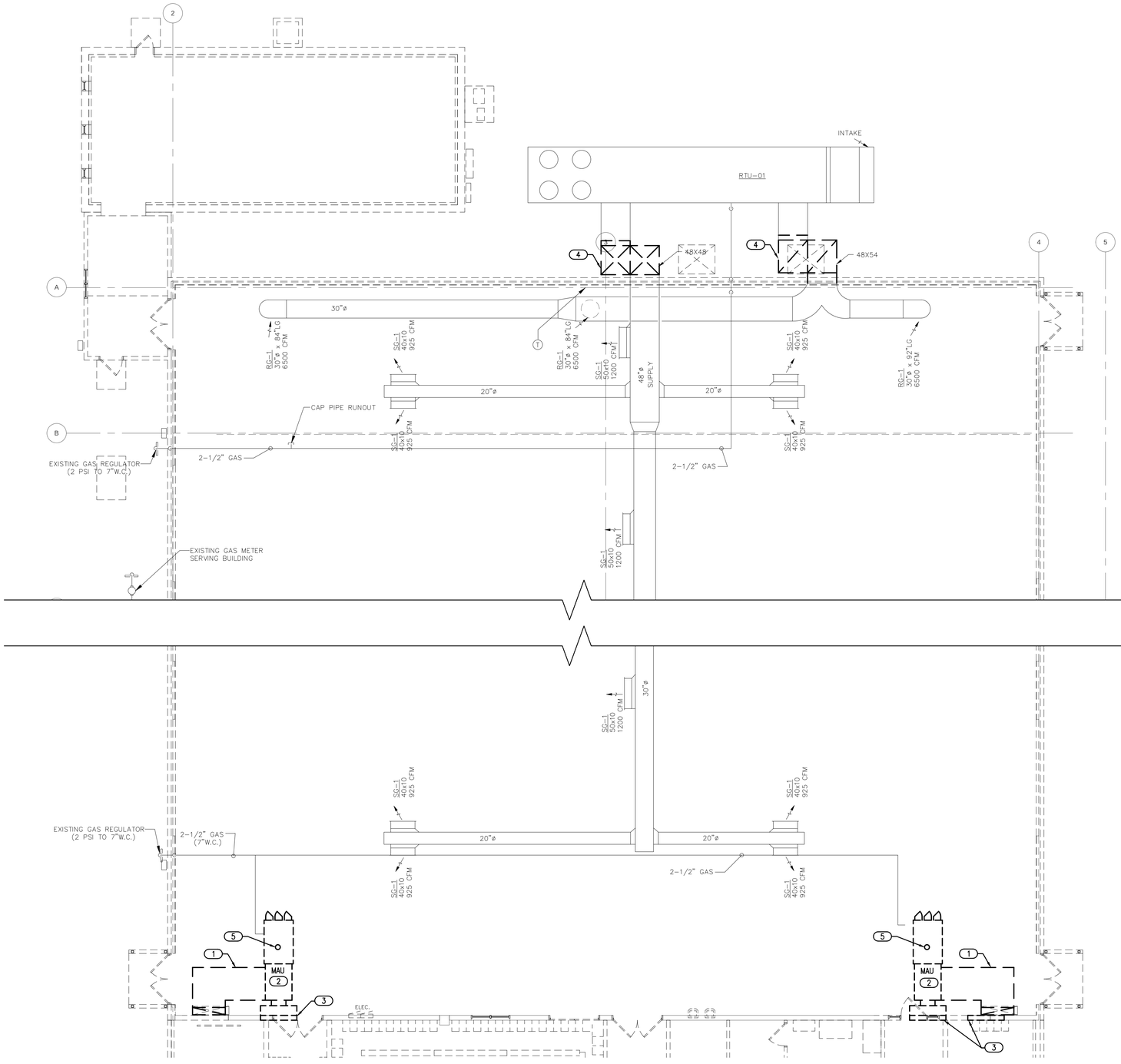
REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: ACE	Ckd by: SC	Date: 09/15/21
Dwn by: ACW	Reviewed by:	Rev.
FORT McCOY DIRECTORATE OF PUBLIC WORKS 2171 SOUTH 6TH AVE. FORT MC COY, WI 54656	Submitted by: DPW	Work Order No 1186 / Project Number ES 120037.2

MECHANICAL DEMOLITION PLAN AREA 'B'

SHEET NUMBER:
M1.1
SHEET 71 of 116

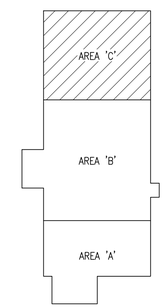
Plot date:



1 MECHANICAL DEMOLITION PLAN - AREA 'C'
1/8" = 1'-0"

KEYED NOTES

1. REMOVE DUCTWORK DASHED AND IN BOLD.
2. REMOVE MECHANICAL EQUIPMENT DASHED AND IN BOLD AND ALL ASSOCIATED CONTROLS. REMOVE VENT AND COMBUSTION AIR PIPING UP THROUGH ROOF, COORDINATE WITH ROOFING CONTRACTOR. REPAIR AND PATCH ROOF.
3. REMOVE EXISTING LOUVERS DASHED AND IN BOLD. PATCHING OF EXTERIOR WALL PROVIDED BY G.C.
4. REMOVE EXISTING DUCTWORK RUNNING VERTICAL UP EXTERIOR WALL. DUCTWORK TO BE STORED AND REINSTALLED UPON COMPLETION OF EXTERIOR WORK. CAP OPEN ENDS OF DUCTWORK TO PROTECT FROM ELEMENTS DURING EXTERIOR RENOVATION WORK.
5. REMOVE VENT PIPING UP THROUGH ROOF. REPAIR AND PATCH ROOF.



KEY PLAN
NOT TO SCALE

NORTH

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engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
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FITNESS CENTER
FORT McCOY, WISCONSIN

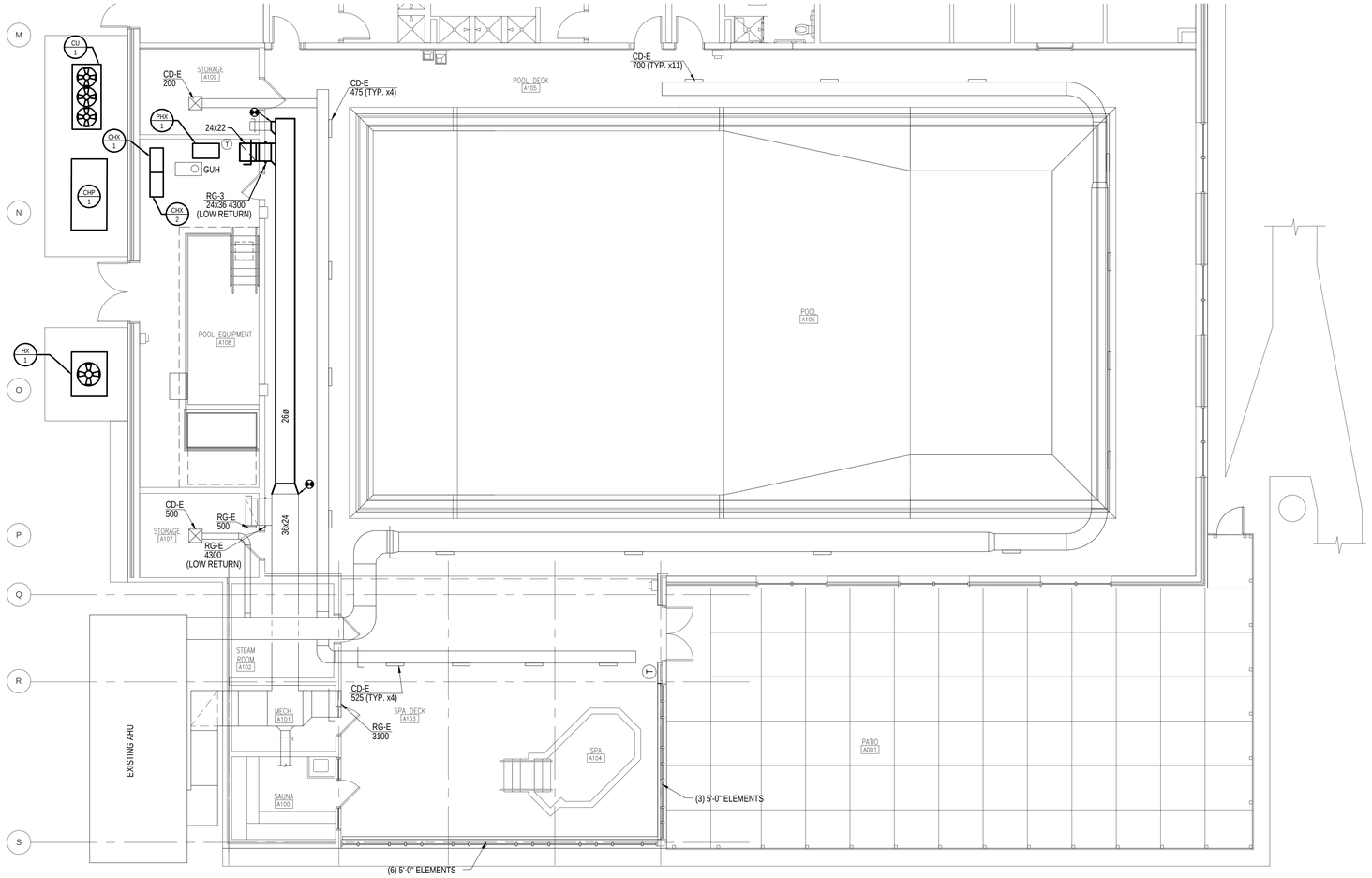
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Dwn by: ACE		Rev.	
Reviewed by:		Work Order No 1186	
Submitted by: DPW		Project Number ES 12003-23	

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FORT MC COY, WI 54656

MECHANICAL DEMOLITION PLAN
AREA 'C'

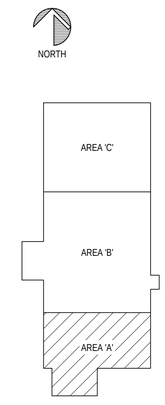
SHEET NUMBER:
M1.2
SHEET 72 of 116

Plot date:



1 MECHANICAL DUCTWORK PLAN - AREA 'A'

1/8" = 1'-0"



KEY PLAN

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FITNESS CENTER
FORT McCOY, WISCONSIN

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	Submitted by: DPW	Work Order No 1186
		Project Number ES 12003-23

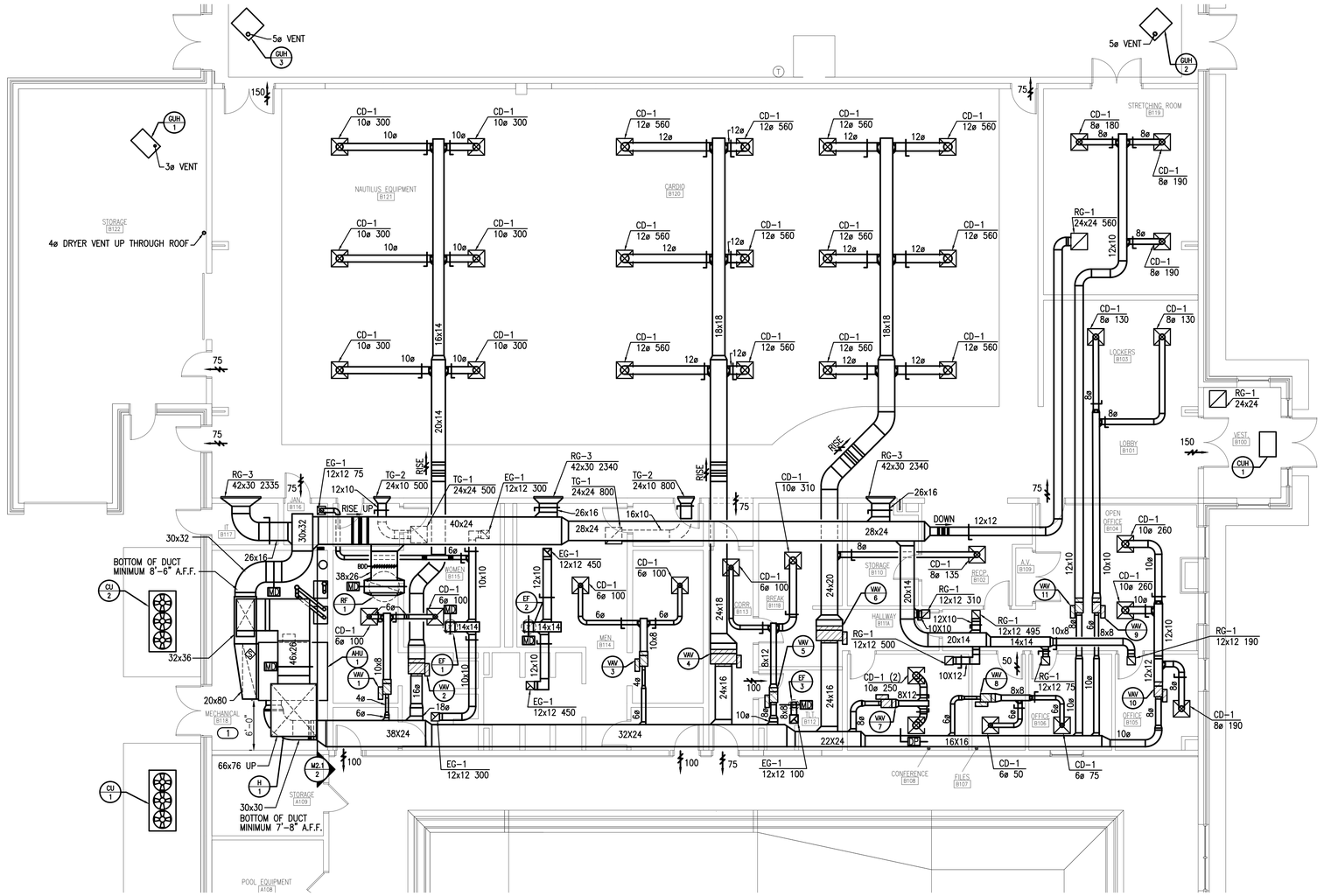
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FORT MCCOY, WI 54656

MECHANICAL DUCTWORK PLAN
AREA 'A'

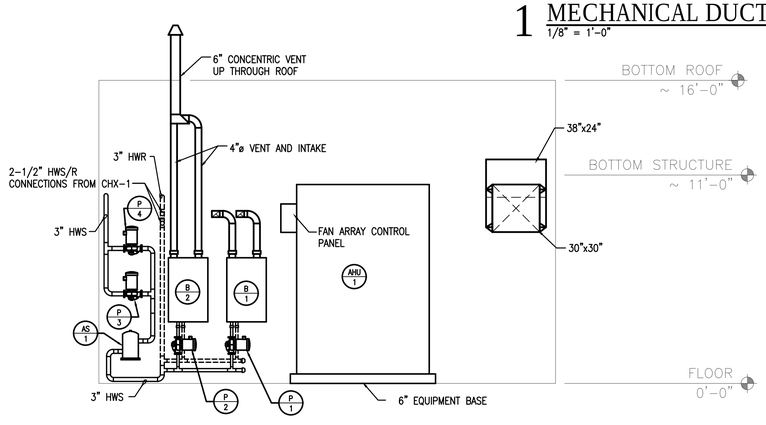
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M2.0

SHEET 73 of 116

Plot date:

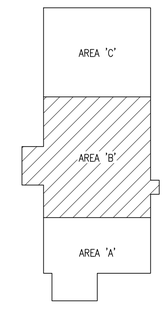


1 MECHANICAL DUCTWORK PLAN - AREA 'B'
1/8" = 1'-0"



2 MECHANICAL ROOM SECTION VIEW
1/4" = 1'-0"

NORTH



KEY PLAN
NOT TO SCALE

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FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

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REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

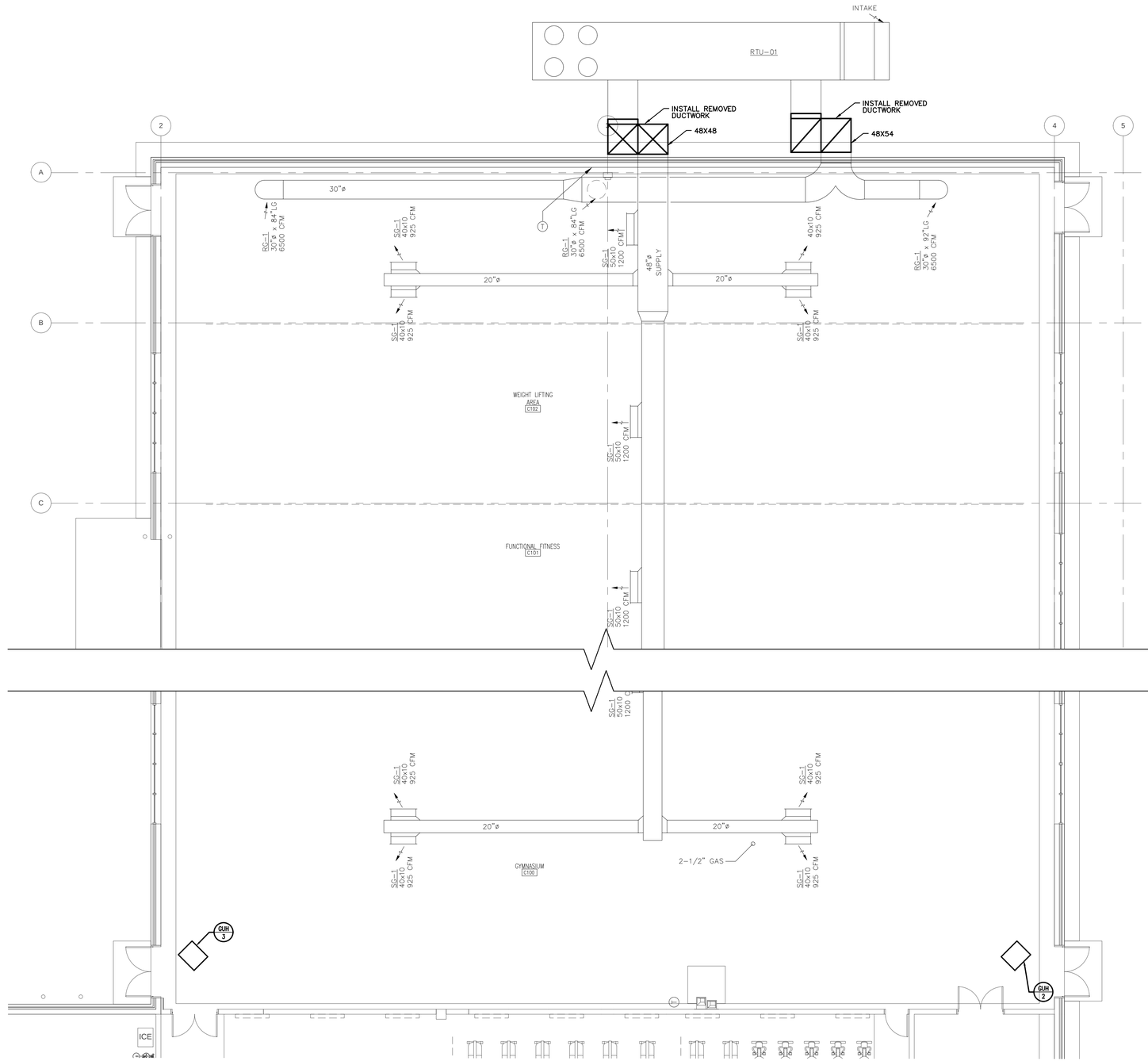
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MECHANICAL DUCTWORK PLAN
AREA 'B'

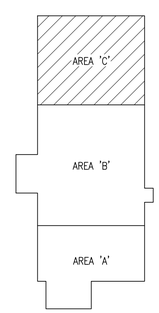
SHEET NUMBER:
M2.1
SHEET 74 of 116

Plot date:



1 MECHANICAL DUCTWORK PLAN - AREA 'C'
1/8" = 1'-0"

NORTH



KEY PLAN
NOT TO SCALE

NORTH

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: ACE	Date: 09/15/21
Dwn by: ACE	Ckd by: SC
Reviewed by:	Rev.
Submitted by: DPW	Work Order No 1186
	Project Number ES 120093.23

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DIRECTORATE OF PUBLIC WORKS
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FORT MC COY, WI 54656

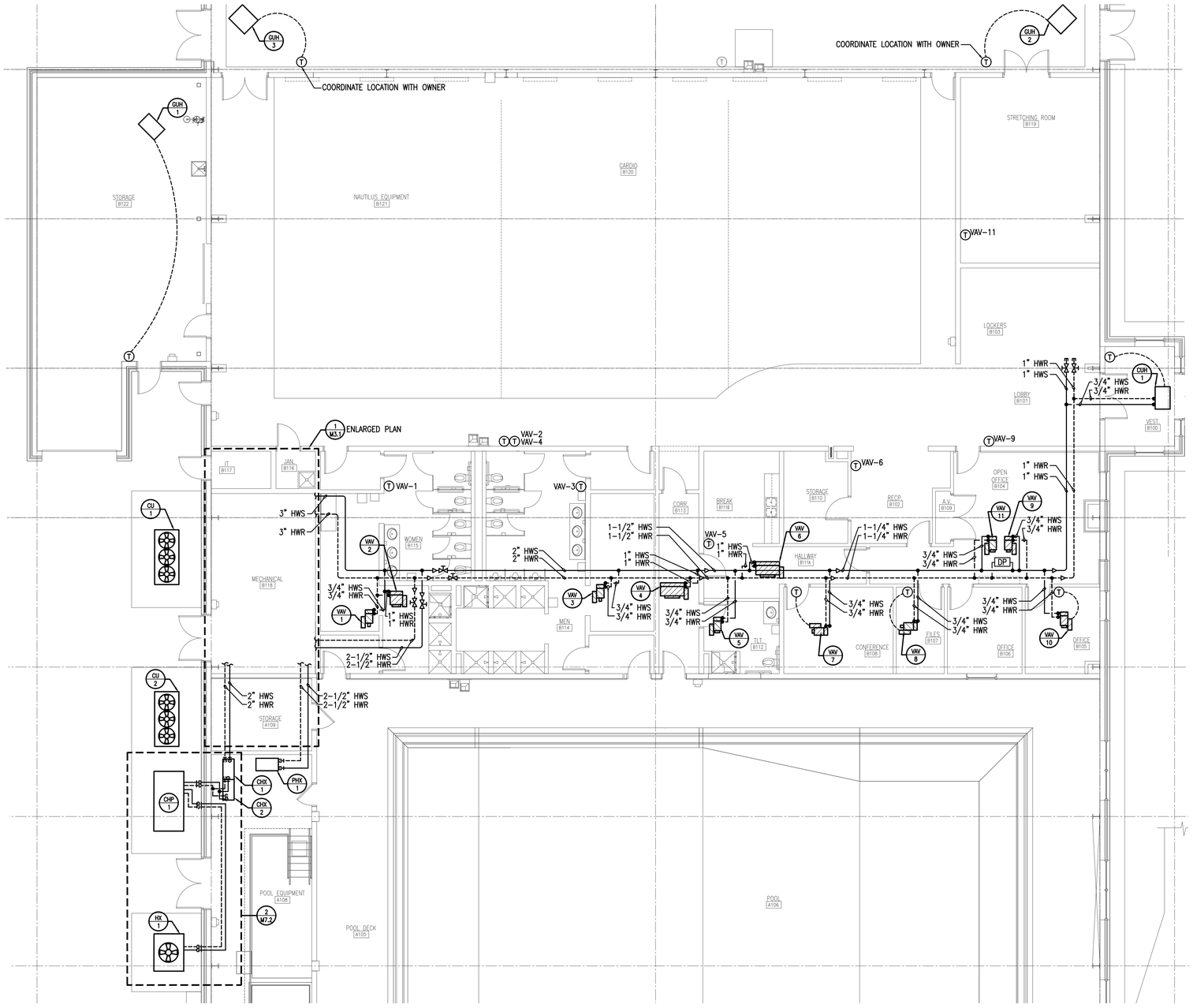
MECHANICAL DUCTWORK PLAN
AREA 'C'

SHEET NUMBER:
M2.2
SHEET 75 of 116

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engineers | consultants | commissioning
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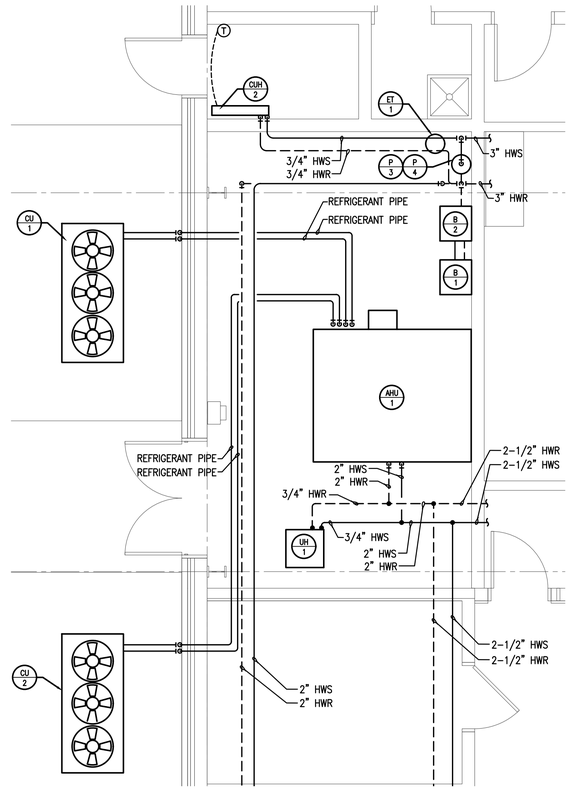
Plot date:



2 MECHANICAL PIPING PLAN - AREA 'B'

1/8" = 1'-0"

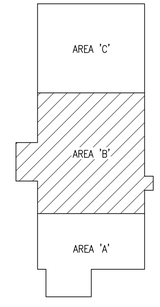
NORTH



1 ENLARGED MECHANICAL PLAN - AREA B

1/4" = 1'-0"

NORTH



KEY PLAN

NOT TO SCALE

NORTH

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: ACE	Ckd by: SC	Date: 09/15/21	
Dwn by: ACE	Reviewed by:	Rev.	Work Order No 11186
FORT McCOY DIRECTORATE OF PUBLIC WORKS 2171 SOUTH 6TH AVE. FORT MCCOY, WI 54656	Submitted by: DPW		Project Number ES 12003-23

MECHANICAL PIPING PLAN
AREA 'B'

SHEET NUMBER:
M3.1
SHEET 76 of 116

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engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5658 | mepassociates.com

MEP PROJECT NO.: S01.17.02

Plot date:

VAV WITH HOT WATER REHEAT SCHEDULE

VAV #	LOCATION	SERVES	MAX. CFM	MIN. CFM	UNIT SIZE	TOTAL ΔP IN W.G.	MAX. DISCH./RAD. LEVEL NC	REHEAT COIL AIR SIDE CFM	EAT (°F)	LAT (°F)	REHEAT COIL WATER SIDE MBH	GPM	EWT (°F)	LWT (°F)	ΔP (ft)	REHEAT COIL SIZE (WxH)	ROWS	VALVE PATTERN 2 OR 3 WAY	MANUFACTURER & MODEL NO.	NOTES
1	B115	B115	200	100	4	0.14	<25	100	55	99	6.2	0.8	140	125	0.14	12x8	2	2-WAY	TITUS DESV-04	–
2	B115	B121	1800	1500	16	0.26	<25	1500	55	85	41.3	2.7	140	110	0.42	24x18	2	2-WAY	TITUS DESV-16	–
3	B114	B114	200	100	4	0.14	<25	100	55	99	6.2	0.8	140	125	0.14	12x8	2	2-WAY	TITUS DESV-04	–
4	B113	B120	3360	1500	40	0.32	<25	1500	55	88	54.1	3.5	140	110	0.8	38x18	2	2-WAY	TITUS DESV-40	–
5	B112	B111, B113	410	410	8	0.13	<25	410	55	87	14.0	1.4	140	119	0.34	12x10	2	2-WAY	TITUS DESV-08	–
6	B111	B120	3495	1800	40	0.34	<25	1800	55	86	60.8	4.0	140	110	1.02	38x18	2	2-WAY	TITUS DESV-40	–
7	B108	B108	500	500	8	0.17	<25	500	55	85	15.7	1.5	140	119	0.35	12x10	2	2-WAY	TITUS DESV-08	–
8	B107	B107, B106	125	90	4	0.01	<25	90	55	86	3.0	0.5	140	125	0.14	12x8	1	2-WAY	TITUS DESV-04	–
9	B104	B103, B101	260	200	6	0.14	<25	200	55	90	7.5	0.8	140	122	0.14	12x8	2	2-WAY	TITUS DESV-06	–
10	B105	B104, B105	710	230	8	0.29	<25	335	55	91	13.0	1.4	140	122	0.34	12x10	2	2-WAY	TITUS DESV-08	–
11	B104	B119	560	500	8	0.21	<25	500	55	85	16.0	1.6	140	120	0.21	12x10	2	2-WAY	TITUS DESV-08	–

EXHAUST FAN SCHEDULE

EF #	LOCATION	SYSTEM	CFM	SP (IN)	WHEEL TYPE & SIZE	RPM	MOTOR H.P.	ELECTRICAL CHAR	BACK DRAFT DAMPER	DRIVE	FAN TYPE	INTERLOCK/CONTROL	MANUFACTURER & MODEL NO.	NOTES
1	ROOF	GENERAL EXHAUST	675	0.75	BI	1725	1/4	115/1/60	MOD	DIRECT	CENTRIFUGAL	AHU-1	GREENHECK G-099-A	1-3
2	ROOF	GENERAL EXHAUST	900	1.0	BI	1725	1/2	115/1/60	MOD	DIRECT	CENTRIFUGAL	AHU-1	GREENHECK G-123-A	1-3
2	B112	GENERAL EXHAUST	100	0.5	BI	1140	1/6	115/1/60	MOD	DIRECT	CENTRIGUAL	LIGHT SWITCH	GREENHECK G-097-B	1-3

NOTES:
1. FACTORY MOUNTED DISCONNECT SWITCH.
2. PROVIDE SPEED CONTROLLER OPTION.
3. PROVIDE 24" ROOF CURB.

RELIEF FAN SCHEDULE

RF #	LOCATION	SYSTEM	CFM	SP (IN)	WHEEL TYPE & SIZE	RPM	MOTOR H.P.	ELECTRICAL CHAR	MOTORIZED DAMPER	DRIVE	FAN TYPE	INTERLOCK/CONTROL	MANUFACTURER & MODEL NO.	NOTES
1	ROOF	AHU RELIEF	9200	1.5	BI	832	5	208/3/60	YES	BELT	CENTRIFUGAL	AHU-1	GREENHECK CUBE-300-50	1-2

NOTES:
1. VARIABLE SPEED DRIVE PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. DISCONNECT INTEGRAL TO VFD.
2. PROVIDE 24" ROOF CURB.

POOL HEAT EXCHANGER SCHEDULE

PHX #	LOCATION	SERVICE	CAPACITY MBH	FACILITY WATER SIDE EWT °F	LWT °F	GPM	WATER PSI	POOL WATER SIDE EWT °F	LWT °F	GPM	WATER PSI	SURFACE (sqft)	NUMBER OF PLATES	OPERATING WEIGHT	MANUFACTURER & MODEL NO.	NOTES
1	A108	POOL	712	140	110	48	1.89	85	100	95	7.67	27.7	33	243	ARMSTRONG A8H-150-33-400	–

NOTES:

COMBINATION HEATING/POWER UNIT SCHEDULE

CHP #	SYSTEM	LOCATION	INPUT MBH	OUTPUT MBH	AVG. SUPPLY WATER (°F)	SUPPLY & RETURN (IN)	ELECTRICAL OUTPUT (KW)	ELECTRICAL OUTPUT VOLTAGE	PUMP MOTOR ELECTRICAL CHAR	FLOW (GPM)	HEAD (FT)	HP	FUEL TYPE	GAS CONNECTION (IN)	UNIT WEIGHT (LBS)	MANUFACTURER & MODEL NO.	NOTES
1	HEATING/POWER	OUTSIDE	930	523	220	1-1/2"	75	208V/3	208/3	44	50	1.5	NG	2	4450	AEGENCO POWERSYNC	1,2

NOTES:
1. UNIT MOUNTED OUTDOORS ON CONCRETE SLAB.
2. ELECTRIC, GAS, AND BTU METERING PACKAGE INCLUDED BY MANUFACTURER. ELECTRIC AND GAS METERS TO BE INSTALLED BY CONTRACTOR IN FIELD.

COGEN LOAD MODULE HEAT EXCHANGER

CHX #	LOCATION	CAPACITY MBH	CHP WATER SIDE EWT °F	LWT °F	GPM	WATER TYPE	EQUIPMENT WATER SIDE EWT °F	LWT °F	GPM	WATER TYPE	PUMP MOTOR ELECTRICAL CHAR	HEAD (FT)	HP	CONNECTION SIZE SUCTION (IN)	DISCHARGE (IN)	OPERATING WEIGHT	MANUFACTURER & MODEL NO.	NOTES
1	A108	523	176	225	22	40% PG	104	140	30	WATER	115/1	23	1/2	1.5	1.5	–	KELVION GBS700M-40	1
2	A108	523	176	225	22	40% PG	104	140	30	WATER	115/1	23	1/2	1.5	1.5	–	KELVION GBH-DW500H-70	1

NOTES:
1. MANUFACTURER PROVIDED DISCONNECTS MOUNTED ON LOAD MODULE SKID.

HEAT DISSIPATION UNIT

HX #	LOCATION	CAPACITY MBH	WATER SIDE EWT °F	LWT °F	GPM	WATER TYPE	FAN HP	FAN RPM	MANUFACTURER & MODEL NO.	NOTES
1	OUTSIDE	523	205	168	30	40% PG	2	1160	IEA HCR-M14-02-08-S02	1

NOTES:
1. UNIT POWER FED FROM CHP-1, POWER FROM CHP-1 TO HX-1 INSTALLED BY ELECTRICAL CONTRACTOR.

GLYCOL FEED SYSTEM

GF #	LOCATION	SERVICE	TANK CAPACITY (GAL)	WATER TYPE	ELECTRICAL CHAR	MANUFACTURER & MODEL NO.	NOTES
1	A108	HW	6	40% PG	120/1/60	AXIOM DMF-150	–

NOTES:

AIR HANDLING UNIT SCHEDULE

AHU #	LOC. (ROOM NO.)	SUPPLY (CFM)	MIN. OA (CFM)	SUPPLY FAN EXTERNAL STATIC PRESS. (IN. W.G.)	FAN QUANTITY	SIZE (IN)	TYPE	FAN RPM	MOTOR HP/#	MOTOR RPM	V/ø/HZ	MCA	MOP	WEIGHT (lbs.)	MANUFACTURER & MODEL NUMBER	NOTES
1	B118	12000	1800	2.5	5	12.4	PLENUM ARRAY	3416	4.1 (5)	3900	208/3/60	47.3	50	3649	DAIKIN/Q-PAC CAH029GDQM	1-4

NOTES:
1. PROVIDE MERV 8 PREFILTERS.
2. SCHEDULED AIR HANDLING UNIT BASIS OF DESIGN. PLENUM SUPPLY FAN ARRAY WITH ECM MOTORS.
3. PROVIDE INTEGRAL DISCONNECT INTERNAL TO UNIT.
4. PROVIDE SINGLE POINT POWER CONNECTION.

AIR HANDLING UNIT - HOT WATER COIL SCHEDULE

SERVES	FLOW (CFM)	EAT (°F)	LAT (°F)	FACE VEL. (FPM)	AIR PRESS. DROP (IN.W.G.)	EWT (°F)	LWT (°F)	WATER PRESS. DROP (FEET)	CAPACITY (MBH)	FLOW GPM	COIL TYPE	ROWS	FINS PER INCH	COIL CONNECTION (IN)	CONTROL VALVE MAX PRESSURE DROP (FT)	VALVE PATTERN 2 OR 3	NOTES
AHU-1	12000	40	60.9	605	0.13	140	119	8.6	273.8	26.2	HW	1	9	THREADED	15	2	–

AIR HANDLING UNIT - DX COOLING COIL SCHEDULE

SERVES	COOLING COIL FLOW (CFM)	TOTAL (MBH)	SENSIBLE (MBH)	ENTERING AIR DB (°F)	WB (°F)	LEAVING AIR DB (°F)	WB (°F)	FACE VEL. (FPM)	AIR PRESS. DROP (IN.W.G.)	FINNED HEIGHT	FINNED LENGTH	REFRIG. TYPE	SOLENOID VALVE	COILS	ROWS	FINS PER INCH	COIL CONNECTION	CONTROL VALVE MAX PRESSURE DROP (FT)	NOTES
AHU-1	12000	372.3	266.2	75.8	64.0	55.5	53.5	451	0.57	54	71	R410a	–	1	6	7	OD SWEAT	15	–

CONDENSING UNIT SCHEDULE

CU #	NOMINAL TONNAGE	CONDENSING UNIT ELEC. CHAR	MCA	E.E.R.	FAN MOTOR	FAN SIZE	SOUND PWR dBA	MANUFACTURER & MODEL NO.	EVAPORATOR COIL CFM	S.P.	MANUFACTURER & MODEL NO.	NOTES
1	15	208/3/60	64.0	11.8	1/3 (3)	24 (3)	–	DAIKIN RSC15F180C	12000	0.50	DAIKIN 5EJ0706B	1
2	15	208/3/60	64.0	11.8	1/3 (3)	24 (3)	–	DAIKIN RSC15F180C				

NOTES:
1. SEE AHU COIL SCHEDULE.

BOILER SCHEDULE

B #	SYSTEM	LOCATION	INPUT MBH	OUTPUT MBH	SUPPLY WATER (°F)	SUPPLY & RETURN (IN)	INTAKE VENT (IN)	EXHAUST VENT (IN)	ELECTRICAL CHAR	AMPS	MANUFACTURER & MODEL NO.	NOTES
1	HW LOOP	B118	399	380	140	1-1/2	4	4	120/1/60	12	NTI TRINITY Tft399	1-4
2	HW LOOP	B118	399	380	140	1-1/2	4	4	120/1/60	12	NTI TRINITY Tft399	1-4

NOTES:
1. PROVIDE A LOW WATER & PUMP CONTROL CUT OFF.
2. PROVIDE BOILER MOUNTING RACK FOR DUAL BOILERS.
3. DISCONNECT TO BE PROVIDED BY MANUFACTURER, INTEGRAL TO UNIT.
4. EXHAUST VENTS TO BE MINIMUM 10'-0" DISTANCE FROM ANY FRESH AIR INTAKE.

PUMP SCHEDULE

P #	LOCATION	SERVES	PUMP TYPE	DESIGN FLOW (GPM)	HEAD (FT)	MAXIMUM SHUT OFF HEAD (FT)	MOTOR ELECTRICAL CHAR	AMPS	HP	NOL (BHP)	RPM	PUMP SIZE SUCTION (IN)	DISCHARGE (IN)	IMPELLER	MANUFACTURER & MODEL NO.	NOTES
1	B118	B-1	IN-LINE	26	18	–	120/1	–	1/3	0.31	1725	1.25	1.25	4.375	B&G e-90 1.25AAB	1
2	B118	B-2	IN-LINE	26	18	–	120/1	–	1/3	0.31	1725	1.25	1.25	4.375	B&G e-90 1.25AAB	1
3	B117	HW LOOP	IN-LINE	110	54	–	208/3	–	3	2.75	3384	1.5	1.5	4.375	B&G e-90 1.5AAB	1-3
4	B117	HW LOOP	IN-LINE	110	54	–	208/3	–	3	2.75	3384	1.5	1.5	4.375	B&G e-90 1.5AAB	1-3

NOTES:
1. SELECTIONS BASED ON 100% WATER.
2. VARIABLE SPEED (VFD) PUMP CONTROLLED BY BAS. PROVIDE SHAFT GROUNDING RINGS WITH VFD.
3. VARIABLE SPEED DRIVE PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.

EXPANSION TANK SCHEDULE

ET #	LOCATION	SYSTEM	SIZE HEIGHT (IN)	DIAMETER (IN)	CAPACITY ACCEPT. VOLUME (GAL)	MIN. TANK VOLUME (GAL)	PRE-CHARGED (PSIG)	SYSTEM WATER VOLUME (GAL)	SYSTEM CONNECTION SIZE (IN)	SYSTEM OPERATING RANGE (GAUGE PSI) MIN	MAX	APPROX 100% FULL WEIGHT (LBS)	MANUFACTURER & MODEL NO.	NOTES
1	B118	HOT WATER	30	16	11.3	21.7	12	100	1/2	12	30	95	AMTROL AX-30(V)	–

AIR SEPARATOR SCHEDULE

AS #	LOCATION	SYSTEM	TYPE	STRAINER	GPM	MAXIMUM PRESSURE DROP (FEET)	SIZE (IN)	DRY WEIGHT (LBS)	WET WEIGHT (LBS)	MANUFACTURER & MODEL NO.	NOTES
1	B118	HOT WATER	TANGENTIAL	YES	110	4.0	3.0	130	188	ROLAIRTROL R-3	–

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.9680 | F: 715.832.9688 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	DATE	MOD REQUEST # - DESCRIPTION	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Date: 09/15/21
Rev.
Work Order No 1186
Project Number ES 12003-23

Designed by: ACE
Clid by: SC
Drwn by: ACE
Reviewed by:
Submitted by: DPW

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

MECHANICAL SCHEDULES

SHEET NUMBER:
M4.0
SHEET 77 of 116

Plot date:

AIR BALANCE SCHEDULE (VARIABLE VOLUME SYSTEMS)

Room Number	Room Name	Room Area (ft²)	Ceiling Height (ft)	Number of Occupants	Source (Unit No.)	Code Requirements							Design																Notes
						Outdoor			Supply	Exhaust		Pressure	Supply				Outdoor								Return		Exhaust			Transfer		
													Maximum		Minimum		Maximum				Minimum				Maximum						
						(CFM per Person)	(Air Changes per Hour)	(CFM per sq ft)	(Air Changes per Hour)	(Air Changes per Hour)	(CFM per sq ft)	(POSITIVE, NEUTRAL, NEGATIVE)	(CFM)	(Air Changes per Hour)	(CFM)	(Air Changes per Hour)	(CFM)	(CFM per Person)	(Air Changes per Hour)	(CFM per sq ft)	(CFM)	(CFM per Person)	(Air Changes per Hour)	(CFM per sq ft)	(CFM)	(Air Changes per Hour)	(CFM)	(Air Changes per Hour)	(CFM per sq ft)	In (CFM)	Out (CFM)	
B115	WOMENS LOCKER	464	9	0	1	-	-	-	-	-	-	-	200	2.9	100	1.4	30	-	0.4	0.1	15	-	0.2	0.0	0	0.0	600	8.6	1.3	500	100	100
Zone Totals:													200		100										0		600					-
B121	NAUTILUS EQUIPMENT	1,825	13	30	2	7.5	-	-	-	-	-	-	1,800	4.6	1,500	3.8	270	9	0.7	0.1	225	8	0.6	0.1	925	2.3	0	0.0	0.0	0	875	300
B116	JANITOR	27	9	0	2	-	-	-	-	-	-	-	0	0.0	0	0.0	0	-	0.0	0.0	0	-	0.0	0.0	0	0.0	75	18.5	2.8	75	0	-
Zone Totals:													1,800		1,500										925		75					-
B114	MENS LOCKER	608	9	0	3	-	-	-	-	-	-	-	200	2.2	100	1.1	30	-	0.3	0.0	15	-	0.2	0.0	0	0.0	900	9.9	1.5	800	100	100
Zone Totals:													200		100										0		900					-
B120	CARDIO	1,455	13	30	4	7.5	-	-	-	-	-	-	3,360	10.7	1,500	4.8	504	17	1.6	0.3	225	8	0.7	0.2	2,885	9.2	0	0.0	0.0	0	475	-
Zone Totals:													3,360		1,500										2,885		0					-
B111	BREAKROOM	257	9	6	5	7.5	-	-	-	-	-	-	310	8.0	310	8.0	47	8	1.2	0.2	47	8	1.2	0.2	310	8.0	0	0.0	0.0	0	0	-
B113	CORRIDOR	127	9	0	5	-	-	-	-	-	-	-	100	5.2	100	5.2	15	-	0.8	0.1	15	-	0.8	0.1	0	0.0	0	0.0	0.0	75	175	75
B112	TOILET	63	9	0	5	-	-	-	-	-	-	-	0	0.0	0	0.0	0	-	0.0	0.0	0	-	0.0	0.0	0	0.0	100	10.6	1.6	100	0	-
Zone Totals:													410		410										310		100					-
B120	CARDIO	1,705	13	32	6	7.5	-	-	-	-	-	-	3,300	8.9	1,700	4.6	495	15	1.3	0.3	255	8	0.7	0.1	2,825	7.6	0	0.0	0.0	0	475	75
B102	RECEPTION	250	9	2	6	7.5	-	-	-	-	-	-	195	5.2	100	2.7	29	15	0.8	0.1	15	8	0.4	0.1	195	5.2	0	0.0	0.0	0	0	-
Zone Totals:													3,495		1,800										3,020		0					-
B108	CONFERENCE	172	9	10	7	7.5	-	-	-	-	-	-	500	19.4	500	19.4	75	8	2.9	0.4	75	8	2.9	0.4	500	19.4	0	0.0	0.0	0	0	-
Zone Totals:													500		500										500		0					-
B107	FILES	75	9	0	8	-	-	-	-	-	-	-	50	4.4	36	3.2	8	-	0.7	0.1	5	-	0.5	0.1	0	0.0	0	0.0	0.0	0	50	-
B106	OFFICE	116	9	1	8	7.5	-	-	-	-	-	-	75	4.3	54	3.1	11	11	0.6	0.1	8	8	0.5	0.1	75	4.3	0	0.0	0.0	0	0	-
Zone Totals:													125		90										75		0					-
B103/B101	LOCKERS/LOBBY	613	9	4	9	7.5	-	-	-	-	-	-	260	2.8	200	2.2	39	10	0.4	0.1	30	8	0.3	0.0	185	2.0	0	0.0	0.0	75	150	150
Zone Totals:													260		200										185		0					-
B104	OPEN OFFICE	405	9	3	10	7.5	-	-	-	-	-	-	520	8.6	168	2.8	78	26	1.3	0.2	25	8	0.4	0.1	495	8.1	0	0.0	0.0	50	75	-
B105	OFFICE	113	9	1	10	7.5	-	-	-	-	-	-	190	11.2	62	3.6	29	29	1.7	0.3	9	9	0.5	0.1	190	11.2	0	0.0	0.0	0	0	-
Zone Totals:													710		230										685		0					-
B119	STRETCHING ROOM	470	10	10	11	7.5	-	-	-	-	-	-	560	7.1	500	6.4	84	8	1.1	0.2	75	8	1.0	0.2	560	7.1	0	0.0	0.0	0	0	-
Zone Totals:													560		500										560		0					-
AHU Totals:													11,620		6,930		1,743								9,145		1,675					-

Notes:
1. AIR BALANCE SCHEDULE BASED ON 15% OUTSIDE AIR.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

PLAN SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NO.	MATERIAL	FINISH	NOISE CRITERIA	ACCESSORIES
CD-1	24x24 SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, SPRING LOCK INNER CORE, FOR LAY-IN CEILING INSTALLATION.	KRUEGER 1400	STEEL	WHITE	-	-
CD-2	24x24 SQUARE FACE, ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, SPRING LOCK INNER CORE, FOR SURFACE MOUNT INSTALLATION.	KRUEGER 1400	STEEL	WHITE	-	-
RG-1	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"x1/2"x1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR LAY-IN CEILING INSTALLATION.	KRUEGER EGC-5-TB	ALUMINUM	WHITE	-	-
RG-2	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"x1/2"x1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR SURFACE MOUNT INSTALLATION.	KRUEGER EGC-5	ALUMINUM	WHITE	-	-
RG-3	SIDEWALL GRILLE, STATIONARY DEFLECTION VANES, 3/4" O.C., 35° ANGLE, FLAT FRAME WITH 1 1/4" MARGIN, HORIZONTAL FRONT.	KRUEGER S580H	ALUMINUM	WHITE	-	-
EG-1	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"x1/2"x1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR LAY-IN CEILING INSTALLATION.	KRUEGER EGC-5-TB	ALUMINUM	WHITE	-	-
EG-2	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"x1/2"x1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR SURFACE MOUNT INSTALLATION.	KRUEGER EGC-5	ALUMINUM	WHITE	-	-
TG-1	SQUARE PATTERN GRILLE, FIXED CORE OF 1/2"x1/2"x1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR LAY-IN CEILING INSTALLATION.	KRUEGER EGC-5-TB	ALUMINUM	WHITE	-	-
TG-2	SIDEWALL GRILLE, STATIONARY DEFLECTION VANES, 3/4" O.C., 35° ANGLE, FLAT FRAME WITH 1 1/4" MARGIN, HORIZONTAL FRONT.	KRUEGER S580H	ALUMINUM	WHITE	-	-

NOTES:

DUCTWORK/INSULATION SCHEDULE

SYSTEM	LOW PRESSURE				MED. PRESS.		HIGH PRESS.		INSULATION				NOTES
	MAX. PRES.	SEAL			MAX. PRES.	SEAL	MAX. PRES.	SEAL					
		A	B	C		A		A	INTERNAL	THICKNESS	EXTERNAL	THICKNESS	
SUPPLY AIR WITHIN 10 FEET OF AHU-1	–	–	–	–	–	–	4	X	NO	–	YES	1 1/2" FSK	–
SUPPLY AIR BEYOND 10 FEET OF AHU-1	–	–	–	–	–	–	4	X	NO	–	YES	1 1/2" FSK	–
SUPPLY AIR DOWNSTREAM OF VAV BOX	2"	–	X	–	–	–	–	–	NO	–	YES	1 1/2" FSK	–
RETURN AIR WITHIN 10 FEET OF AHU-1	2"	–	X	–	–	–	–	–	YES	1"	NO	–	–
RETURN AIR BEYOND 10 FEET OF AHU-1	2"	–	X	–	–	–	–	–	NO	–	NO	–	–
EXHAUST AIR	2"	X	–	–	–	–	–	–	NO	–	NO	–	–
OUTSIDE AIR TO AHU-1	2"	–	X	–	–	–	–	–	NO	–	YES	2" RIGID	–
TRANSFER AIR	2"	X	–	–	–	–	–	–	NO	–	NO	–	–

NOTES:

HOT WATER UNIT HEATER

UH #	LOCATION	EWT (F°)	LWT (F°)	C.F.M.	MOUNTING	GPM	TOTAL MBH	PRESSURE DROP (FT)	ELEC. CHAR	FLA	FAN HP	FAN (WATTS)	FAN MOTOR RPM	CONTROL	MANUFACTURER & MODEL NO.	NOTES
1	B118	140	120	500	–	1.9	10.5	2.2	115/1/60	.8		16	1550	THERMOSTAT	STERLING HS-118A	1-4

NOTES:
1. MECHANICAL CONTRACTOR TO PROVIDE THERMOSTAT.
2. FACTORY MOUNTED DISCONNECT SWITCH.
3. FACTORY PIPING PACKAGE WITH SHUT-OFF VALVE AND MANUAL CIRCUIT SETTER.
4. THERMOSTAT IN SPACE CONTROLS FAN ONLY ON A CALL FOR HEAT.

GAS FIRED UNIT HEATER

GUH #	TYPE	INPUT MBH	OUTPUT MBH	C.F.M.	EXT. S.P.	HEAT EXCH. MTL	BLOWER						PILOT	VENT	FILTER	MANUFACTURER & MODEL NO.	NOTES
							SIZE	DRIVE	H.P.	ELEC. CHAR	AMP	MOP					
1	B122	40	32	750	0.3	ALUM. STEEL	10	DIRECT	1/20	115/1/60	3	–	NA	3	–	LEENOX TUA045SNAF1	1,2
2	C100	125	101.5	2435	0.3	ALUM. STEEL	16	DIRECT	1/8	115/1/60	6	–	NA	5	–	LENNOX TUA125SNAF1	1,2
3	C100	125	101.5	2435	0.3	ALUM. STEEL	16	DIRECT	1/8	115/1/60	6	–	NA	5	–	LENNOX TUA125SNAF1	1,2

NOTES:
1. MECHANICAL CONTRACTOR TO PROVIDE THERMOSTAT.
2. FACTORY MOUNTED DISCONNECT SWITCH.

CABINET UNIT HEATER

CUH #	LOCATION	EWT (F°)	LWT (F°)	C.F.M.	MOUNTING	GPM	TOTAL MBH	PRESSURE DROP (FT)	ELEC. CHAR	AMPS	FAN HP	FAN MOTOR RPM	CONTROL	FILTER	MANUFACTURER & MODEL NO.	NOTES
1	B100	140	120	360	RECESSED CEILING	3.0	24.8	2.9	120/1/60	0.37	1/4	1050	THERMOSTAT	YES	MODINE WCC00457ABAL2	1-8
2	B117	140	120	200	WALL	2.0	12.9	1.8	120/1/60	0.37	1/4	1050	THERMOSTAT	YES	MODINE WCC0020BLLAL2	1,2,4-8

NOTES:
1. HIGH CAPACITY TWO ROW COIL.
2. MECHANICAL CONTRACTOR TO PROVIDE THERMOSTAT.
3. PLENUM RETURN INLET, BOTTOM DISCHARGE.
4. PROVIDE EC MOTOR OPTION.
5. COORDINATE UNIT COLOR WITH ARCHITECT.
6. FACTORY MOUNTED DISCONNECT SWITCH.
7. FACTORY PIPING PACKAGE WITH SHUT-OFF VALVE AND MANUAL CIRCUIT SETTER.
8. THERMOSTAT IN SPACE CONTROLS FAN ONLY ON A CALL FOR HEAT.

ROOF HOOD SCHEDULE

RH #	THROAT SIZE DIMENSION (IN)	THROAT AREA (FT)	OA INTAKE OR EXHAUST/RELIEF	BDD	CONSTRUCTION	MANUFACTURER & MODEL NO.	COMMENTS	NOTES
1	66x76	34.8	INTAKE	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	1

NOTES:
1. PROVIDE WITH ALUMINUM BIRDSCREEN AND 36" ROOF CURB.

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5688 | mepassociates.com
MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Date: 09/15/21
Rev.
Work Order No 1186
Project Number ES 12003-2J

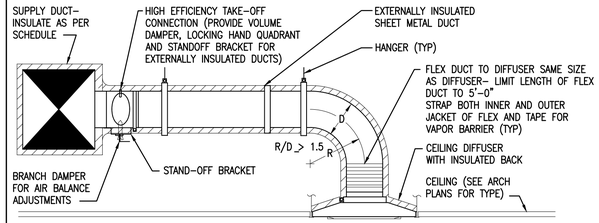
Designed by: ACE
Cktd by: SC
Dwn by: ACE
Reviewed by:
Submitted by: DPW

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

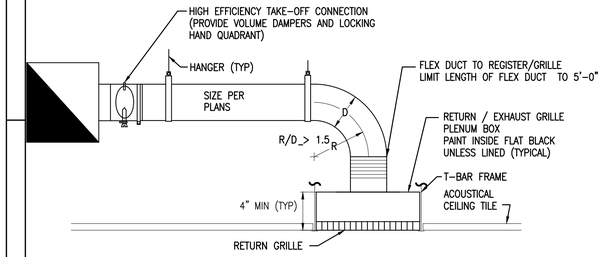
MECHANICAL SCHEDULES

SHEET NUMBER:
M4.1
SHEET 78 of 116

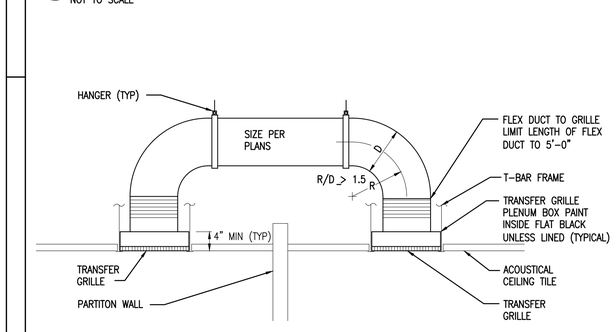
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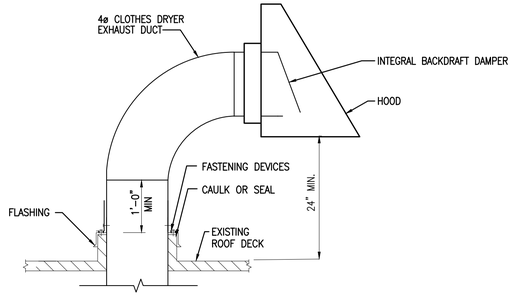
4 CEILING DIFFUSER DETAIL
NOT TO SCALE



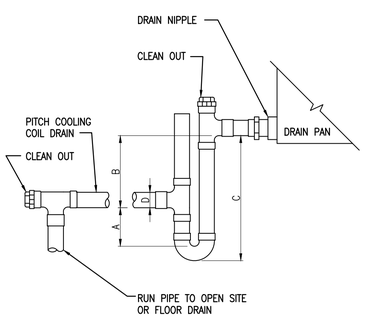
5 RETURN / EXHAUST AIR GRILLE PLENUM BOX
NOT TO SCALE



7 TRANSFER GRILLE DETAIL
NOT TO SCALE



11 CLOTHES DRYER THROUGH ROOF CURB DETAIL
NOT TO SCALE

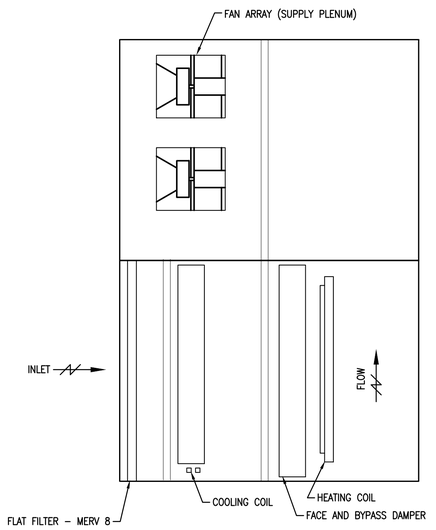


A = 1/2B
B = SP*+1"
C = A+B+D

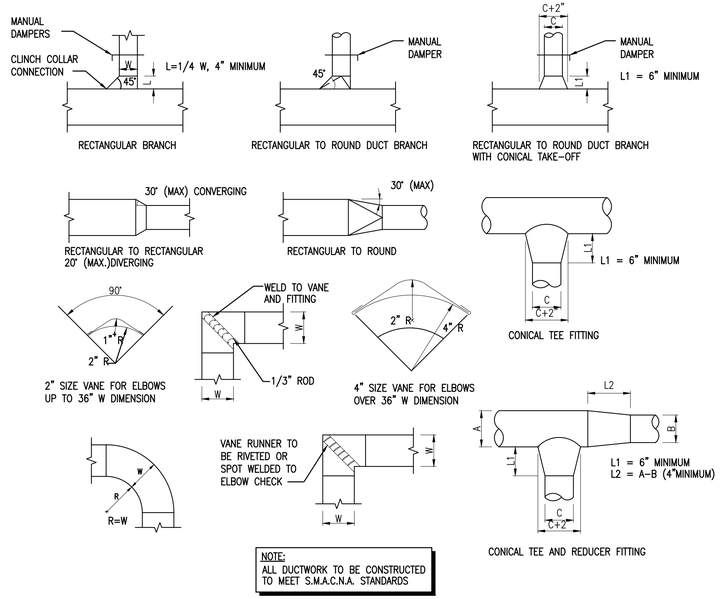
COOLING TONS	D
– UP TO 5 TONS	1" PIPE
– 5 TONS–30 TONS	1 1/4" PIPE
– 30 TONS–50 TONS	1 1/2" PIPE
– 50 TONS–UP	2" PIPE

NOTE:
* SP EQUALS ABSOLUTE VALUE OF NEGATIVE STATIC PRESSURE AT FAN SUCTION FOR DRAW THROUGH AIR HANDLING UNIT.

3 NEGATIVE PRESSURE CONDENSATE DRAIN DETAIL
NOT TO SCALE

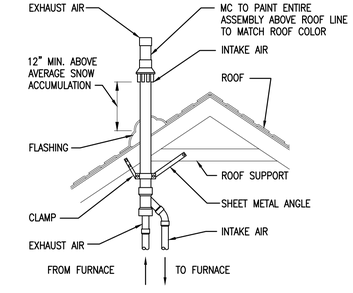


2 AIR HANDLING COMPONENT DETAIL
NOT TO SCALE

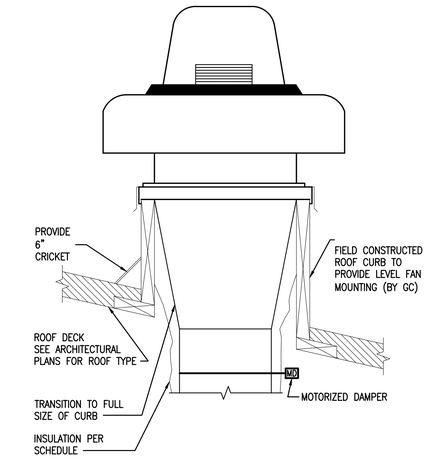


NOTE:
ALL DUCTWORK TO BE CONSTRUCTED TO MEET S.M.A.C.N.A. STANDARDS

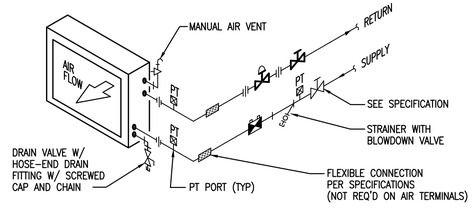
1 TYPICAL DUCTWORK DETAILS
NOT TO SCALE



6 VENT TERMINATION DETAIL
NOT TO SCALE

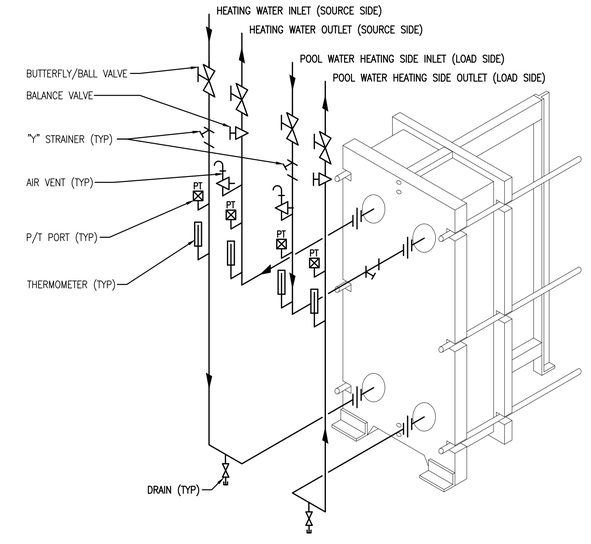


10 EXHAUST FAN DETAIL
NOT TO SCALE



NOTES:
1. WATER FLOW IS COUNTER TO AIR FLOW, OFFSET PIPING FOR SERVICE. TYPICAL ALL HEATING AND COOLING COILS EXCEPT AS NOTED.
2. ALL VALVES AND CONTROL DEVICES TO BE FULL PORT UNLESS APPROVED BY ENGINEER.
3. IF NO VENT PORT ON COIL, ADD ONE IN PIPE.
4. EXISTING ISOLATION VALVES MAY BE REUSED UNLESS THEY ARE REMOVED FOR COIL INSTALLATION, IN WHICH CASE NEW VALVES WILL BE REQUIRED. ALL OTHER COMPONENTS SHALL BE NEW.

9 TYPICAL 2-WAY COIL DETAIL
NOT TO SCALE



8 FLAT PLATE HEAT EXCHANGER DIAGRAM
NOT TO SCALE

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5668 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MOD #	DATE	MOD REQUEST # / DESCRIPTION	MARK

SEH

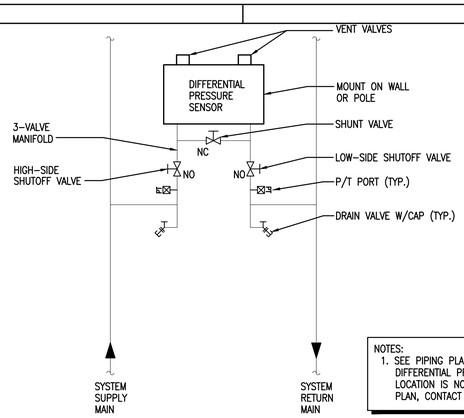
REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: ACE	Ckd by: SC	Date: 09/15/21	Rev.
Dwn by: ACE	Reviewed by:	Work Order No 1186	Project Number ES 12003-23
FORT McCOY DIRECTORATE OF PUBLIC WORKS 2171 SOUTH 6TH AVE. FORT MC COY, WI 54656		Submitted by: DPW	

MECHANICAL DETAILS

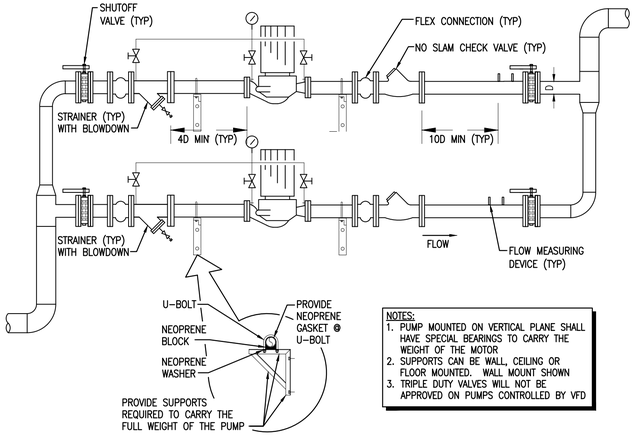
SHEET NUMBER:
M5.0
SHEET 79 of 116

Plot date:



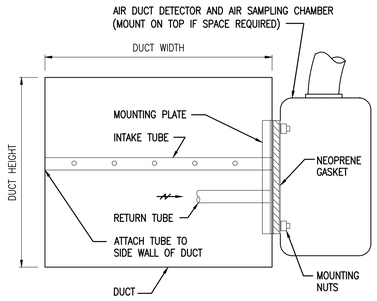
NOTES:
1. SEE PIPING PLAN FOR LOCATION OF DIFFERENTIAL PRESSURE SENSOR. WHERE LOCATION IS NOT PRESENT ON PIPING PLAN, CONTACT ENGINEER FOR LOCATION.

4 DIFFERENTIAL PRESSURE SENSOR
NOT TO SCALE



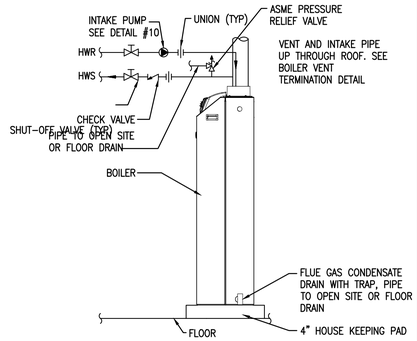
NOTES:
1. PUMP MOUNTED ON VERTICAL PLANE SHALL HAVE SPECIAL BEARINGS TO CARRY THE WEIGHT OF THE MOTOR
2. SUPPORTS CAN BE WALL, CEILING OR FLOOR MOUNTED. WALL MOUNT SHOWN
3. TRIPLE DUTY VALVES WILL NOT BE APPROVED ON PUMPS CONTROLLED BY VFD

3 INLINE PUMP DETAIL



NOTES:
1. SMOKE DETECTOR FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, AND MOUNTED BY MECHANICAL CONTRACTOR.
2. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PROVIDE ACCESS DOOR AT SAMPLING TUBES.
4. THE TUBE SHALL BE INSTALLED PARALLEL TO LONG DIMENSION OF DUCT.
5. PRODUCT SHALL BE UL268A LISTED.
6. EC SHALL TEST ACCORDING TO UL AND CODES IN THE PRESENCE OF CODE AUTHORITY.

2 SMOKE DETECTOR MOUNTING DETAIL
NOT TO SCALE



NOTE:
PROVIDE UNIONS OR FLANGES AS NEEDED TO FACILITATE PUMP REMOVAL

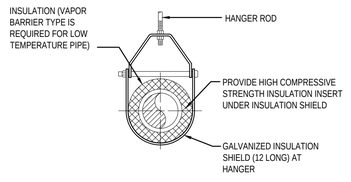
1 BOILER DETAIL
NOT TO SCALE

NOTE:
INSTALL UNIT LEAVING ADEQUATE DISTANCE FOR REMOVAL OF STRAINER AS REQUIRED PER UNIT

6 AIR SEPARATOR AND EXPANSION TANK DETAIL
NOT TO SCALE

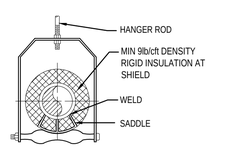
NOTES:
1. PROVIDE FACTORY INSTALLED ACCESS DOOR AT INLET OF COIL.
2. PROVIDE TRANSITION TO COIL IF NECESSARY.
3. PROVIDE SUPPORT ANGLES TO SPAN STRUCTURAL COMPONENTS IF NEEDED (BY CONTRACTOR).

5 VAV WITH HOT WATER REHEAT DETAIL
NOT TO SCALE

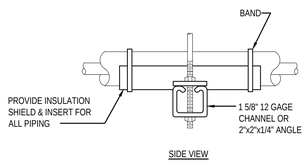


ADJUSTABLE CLEVIS HANGER

HANGER RODS	
NOMINAL PIPE SIZE (INCHES)	MINIMUM ROD DIAMETER (INCHES)
2	3/8
3	1/2
3 1/2	1/2
4	5/8
5	5/8
6	3/4
8	7/8



ADJUSTABLE ROLLER HANGER



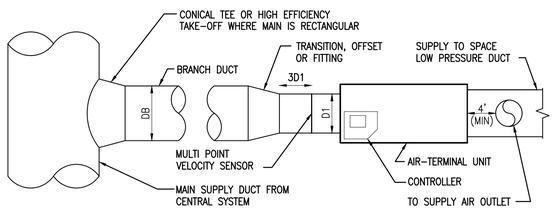
TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

TYPICAL PIPE HANGERS

MAXIMUM PIPE/TUBING SUPPORT SPACING (FEET)										
NOM. SIZE	THRU 3/4"	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6
PIPE	6'-6"	6-6	6-6	10	10	10	10	10	10	10
COPPER	5'-0"	5	5	8	8	8	8	8	8	8
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.										

7 TYPICAL PIPE HANGER DETAIL
NOT TO SCALE

9 HOT WATER CABINET UNIT HEATER PIPING DETAIL
NOT TO SCALE (TWO-WAY VALVE)



NOTES:
1. WHEN BRANCH DUCT TO AIR TERMINAL UNIT EXCEEDS 8' OR HAS ONE OR MORE ELBOWS, THEN DB = D1 + 2", OTHERWISE DB = D1.
2. D1 = THE INLET SIZE CONNECTION OF THE AIR TERMINAL UNIT – TYPICALLY ROUND OR OVAL.
3. PROVIDE A MINIMUM OF 3 DUCT DIAMETERS (D1) OF STRAIGHT DUCT AT INLET.

8 AIR TERMINAL UNIT CONNECTION DETAIL
NOT TO SCALE

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5668 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

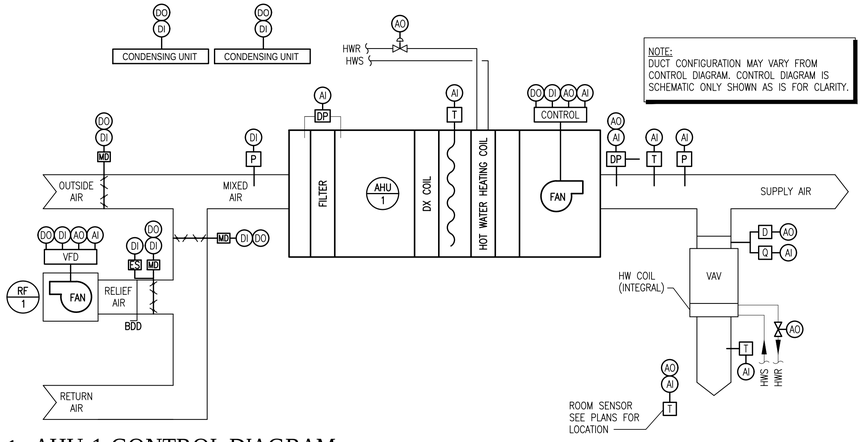
Designed by: ACE	Cad by: SC	Date: 09/15/21	
Drwn by: ACE	Reviewed by:	Rev.	Work Order No 1186
Submitted by: DPW		Project Number ES 120039.23	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

MECHANICAL DETAILS

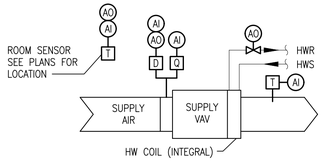
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M5.1
SHEET 80 of 116

Plot date:



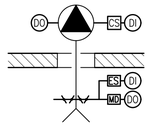
1 AHU-1 CONTROL DIAGRAM

NOT TO SCALE



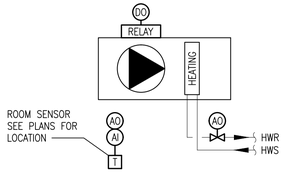
VAV CONTROL 3 DIAGRAM

NOT TO SCALE



EXHAUST FAN 2 CONTROL DIAGRAM

NOT TO SCALE



UNIT HEATER 4 CONTROL DIAGRAM

NOT TO SCALE

(CABINET UNIT HEATER SIMILAR)

INPUT/OUTPUT SUMMARY FOR AHU AND MISCELLANEOUS DEVICES

SYSTEM, APPARATUS OR AREA POINT DESCRIPTION	INPUTS: ANALOG MEASURED: TEMPERATURE	RELATIVE HUMIDITY	STATIC PRESSURE	DIFFERENTIAL PRESSURE	AIR FLOW (CFM)	CURRENT	VALVE/DAMPER POSITION	ANALOG CALC.: KWH	USEAGE	ENTHALPY	RUN TIME	EFFICIENCY	INPUTS: DIGITAL: TEMPERATURE SWITCH	PRESSURE SWITCH	FLOW SWITCH	END SWITCH	CURRENT SWITCH	AUXILIARY CONTACTS	SMOKE DETECTOR	FREEZE STAT	STATUS	OUTPUTS: ANALOG: VALVE MODULATION	DAMPER MODULATION	ECM/VFD MODULATION	SET POINT ADJUST.	OUTPUTS: DIGITAL: START/STOP	OPEN/CLOSE	HIGH/LOW	SYSTEM FEATURES: ALARMS: HIGH ANALOG	LOW ANALOG	HIGH DIGITAL	LOW DIGITAL	PROOF	PROGRAMS: TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPT.	ENTHALPY OPT.	SMOKE CNT.	TREND	ALARM INSTRUCT	MAINT. WRK. ORD.	NOTES
AIR HANDLING UNIT (AHU-1)																																											
FREEZESTAT																				X																						X		
OUTSIDE AIR MOTORIZED DAMPER																X										X																	
FILTER DIFFERENTIAL PRESSURE				X																																					X		
MIXED AIR TEMPERATURE	X																													X	X									X		
OUTSIDE AIR TEMPERATURE	X																													X	X									X		
SUPPLY FAN START/STOP																				X								X												X		
SUPPLY FAN ECM																								X																			
SUPPLY FAN STATUS						X																												X									
SUPPLY FAN TROUBLE																		X																						X		
SUPPLY DUCT DIFFERENTIAL PRESSURE SETPOINT			X																																				X		
SUPPLY AIR TEMPERATURE	X																								X					X	X								X		
SUPPLY AIR HIGH STATIC PRESSURE													X																			X								X		
RETURN AIR SMOKE DETECTOR																			X															X					X		
RETURN AIR LOW STATIC PRESSURE													X																				X						X		
RETURN AIR RELATIVE HUMIDITY		X																												X									X		
CONDENSING UNIT #1																	X											X											X		
CONDENSING UNIT #2																	X											X											X		
HOT WATER VALVE (2-WAY)																						X																				
VAV'S																																										
VAV DAMPER							X																X																			
VAV AIR FLOW					X																				X																
VAV HOT WATER VALVE																						X																			
VAV DISCHARGE AIR TEMPERATURE	X																								X																
VAV ROOM TEMPERATURE	X																								X															X	X	
RELIEF FAN (RF-1)																																										
RELIEF FAN START/STOP																				X								X												X		
RELIEF FAN VFD																								X																		
RELIEF FAN STATUS						X																												X								
RELIEF FAN MOTORIZED DAMPER															X														X												
RELIEF FAN VFD TROUBLE																		X																						X		
BUILDING DIFFERENTIAL PRESSURE			X																																						
EF'S																																										
EXHAUST FAN START/STOP																													X								X				
EXHAUST FAN STATUS						X																												X								
EXHAUST AIR MOTORIZED DAMPER															X														X												
CABINET UNIT HEATERS:																																										
FAN START/STOP																													X												
HW VALVE																						X																			
SPACE SENSOR	X																																								

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2720 Arbor Court | Eau Claire, WI 54701
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REPAIR BUILDING 1122
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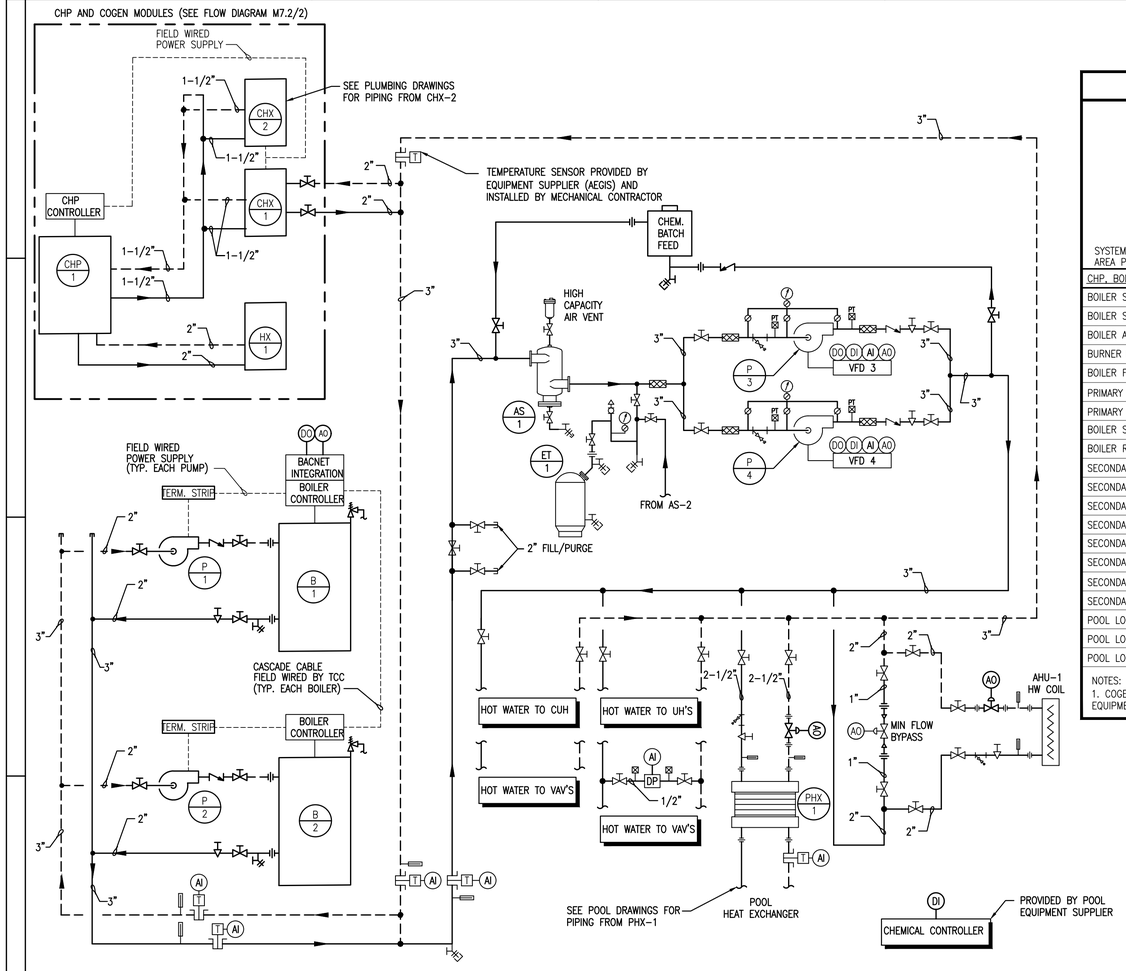
Designed by:		Date:	09/15/21
Drawn by: ACE	Chkd by: KD	Rev.	
Reviewed by:		Work Order No	1186
Submitted by: DPW		Project Number	ES 12003-23

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

MECANICAL
CONTROL/FLOW DIAGRAMS

SHEET NUMBER:
M7.1
SHEET 81 of 116

Plot date:

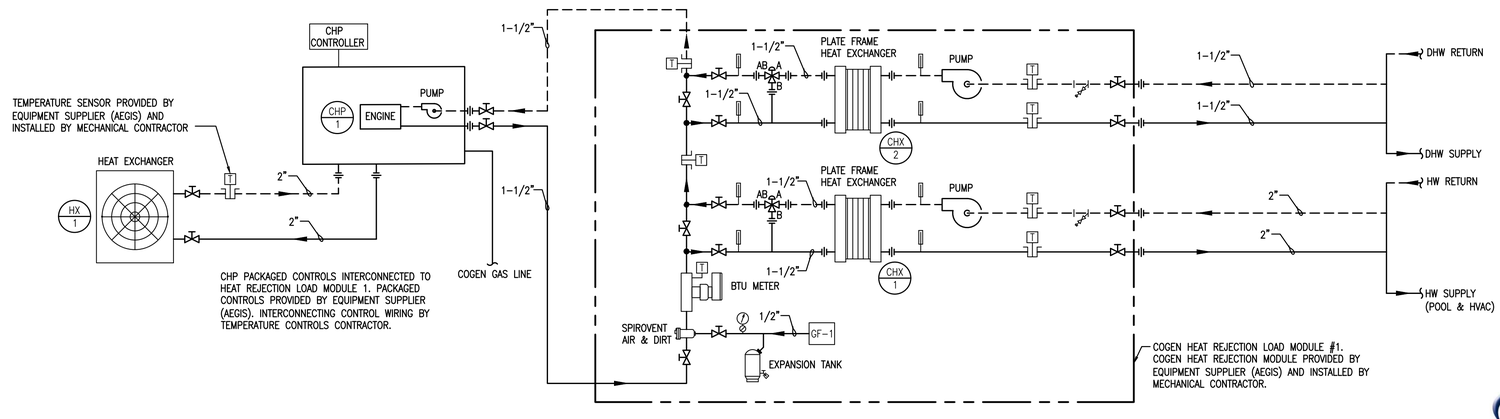


1 MECHANICAL HOT WATER FLOW DIAGRAM
NOT TO SCALE

INPUT/OUTPUT SUMMARY

SYSTEM, APPARATUS OR AREA POINT DESCRIPTION	INPUTS: ANALOG: MEASURED: TEMPERATURE	RELATIVE HUMIDITY	STATIC PRESSURE	DIFFERENTIAL PRESSURE	CONCENTRATION (PPM)	VALVE/DAMPER POSITION	AIR FLOW (CFM)	CURRENT	CALC.: KWH	ENTHALPY	RUN TIME	EFFICIENCY	DIGITAL: TEMPERATURE SWITCH	PRESSURE SWITCH	FLOW SWITCH	END SWITCH	CURRENT SWITCH	AUXILIARY CONTACTS	SMOKE DETECTOR	FREEZE STAT	STATUS	OUTPUTS: ANALOG: BURNER MODULATION	VALVE MODULATION	DAMPER MODULATION	VFD MODULATION	SET POINT ADJUST.	DIGITAL: START/STOP	OPEN/CLOSE	HIGH/LOW	SYSTEM FEATURES: ALARMS: HIGH ANALOG	LOW ANALOG	HIGH DIGITAL	LOW DIGITAL	PROOF	PROGRAMS: TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPT.	ENTHALPY OPT.	SMOKE CNT.	TREND	ALARM INSTRUCT	MAINT. WRK. ORD.	NOTES
CHP, BOILERS & PUMPS																																													COMMUNICATION CARD BY MANUFACTURER
BOILER START/STOP																										X																			
BOILER STATUS																					X																								
BOILER ALARM																																													
BURNER MODULATION																						X																							
BOILER FAILURE																		X																											
PRIMARY PUMP START/STOP (P-1 & P-2)																X										X									X									
PRIMARY PUMP STATUS (P-1 & P-2)																				X											X				X									
BOILER SUPPLY WATER TEMP (B-1 & B-2)	X																														X	X								X			
BOILER RETURN WATER TEMP (B-1 & B-2)	X																														X	X								X			
SECONDARY PUMP START/STOP (P-3 & P-4)																																												
SECONDARY PUMP STATUS (P-3 & P-4)																				X											X				X									
SECONDARY PUMP VFD CONTROL (P-3 & P-4)																								X													X						
SECONDARY PUMP VFD TROUBLE ALARM (P-3 & P-4)																	X																											
SECONDARY LOOP PRESSURE SENSOR				X																					X					X	X									X	X		
SECONDARY LOOP HOT WATER SUPPLY TEMP	X																														X	X								X	X		
SECONDARY LOOP HOT WATER RETURN TEMP	X																															X								X			
SECONDARY LOOP MINIMUM FLOW BYPASS																							X																					
POOL LOOP RETURN WATER TEMP	X																																											
POOL LOOP FLOW																					X																								
POOL LOOP HEAT EXCHANGER CONTROL VALVE																							X																					

NOTES:
1. COGEN HEAT AND POWER UNIT (CHP) TO HAVE STAND ALONE CONTROLLER AND CONTROLS PROVIDED BY MANUFACTURER. CHP UNIT TO HAVE SEPARATE INTERNET CONNECTION FOR MAINTENANCE AND MONITORING BY EQUIPMENT SUPPLIER. CHP UNIT TO BE SEPERATE FROM DDC SYSTEM.



2 COGEN MECHANICAL HOT WATER FLOW DIAGRAM
NOT TO SCALE

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

SEH

Designed by:
Dwn by: ACE
Ckd by: KD
Reviewed by:
Submitted by: DPW
Date: 09/15/21
Rev.:
Work Order No 1186
Project Number ES 120032.3

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 6TH AVE.
FORT MCCOY, WI 54656

MECHANICAL
CONTROL/FLOW DIAGRAMS

SHEET NUMBER:
M7.2
SHEET 82 of 116

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5600 | F: 715.832.5658 | mepassociates.com
MEP PROJECT NO.: S01.17.02

Plot date:

ELECTRICAL SYMBOLS LEGEND

RECEPTACLES

- 20A, 120V, 2P, 3W GROUNDING DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE - MTD 6" ABOVE COUNTER OR HGT SHOWN
- QUADPLEX RECEPTACLE
- COMBINATION DUPLEX RECEPTACLE AND DATA OUTLET - CEILING MOUNT
- GFCI DUPLEX RECEPTACLE
- GFCI DUPLEX RECEPTACLE - MTD 6" ABOVE COUNTER OR HGT SHOWN
- WEATHER-PROOF GFCI RECEPTACLE
- FLOOR BOX (POWER)

COMMUNICATIONS

- TELEPHONE - MTD 6" ABOVE COUNTER OR HGT SHOWN
- DATA/COMM ROUGH IN ONLY
- DATA/COMM - MTD 6" ABOVE COUNTER OR HGT SHOWN
- CEILING MOUNTED SPEAKER
- WALL MOUNTED SPEAKER
- WALL MOUNTED CLOCK
- TELEVISION OUTLET - INCLUDES SEPARATE TV CABLE JACK AND DUPLEX RECEPTACLE MOUNTED AT 72" AFF
- SPEAKER VOLUME CONTROL
- TIME CLOCK
- FLOOR BOX (DATA)

POWER

PROVIDE SEPARATE NEUTRALS FOR ALL 277V & 120V CIRCUITS.

- PANEL BOARD
- DISCONNECT
- FUSED DISCONNECT SWITCH
- TRANSFORMER
- MOTOR STARTER/CONTACTOR
- COMBINATION MOTOR STARTER
- PUSH BUTTON STATION AS NOTED
- J-BOX
- VFD — VARIABLE FREQUENCY DRIVE
- DIRECT ELECTRICAL CONNECTION OR SPECIAL PURPOSE RECEPTACLE
- MOTOR CONNECTION

MISCELLANEOUS

- X / XXXX — EQUIPMENT CALLOUT

LIGHTING

- TROFFER STYLE FIXTURE, TYPE AS NOTED
- FIXTURE ON EMERGENCY POWER
- STRIP LIGHT
- SURFACE MTD FIXTURE
- RECESSED/DOWNLIGHT FIXTURE
- WALL MTD FIXTURE
- WALL MTD LINEAR FIXTURE
- EXIT SIGN (ARROWS INDICATED AS SHOWN) - (SHADING INDICATES # OF FACES)
- EMERGENCY EGRESS FIXTURE

SWITCHING

- $ — 20A, 120/277V SPST SWITCH
- $3 — 20A, 120/277V 3-WAY SWITCH
- $4 — 20A, 120/277V 4-WAY SWITCH
- $D — 20A, 120/277V DIMMER SWITCH
- $OS — 20A, 120/277V OCCUPANCY SENSOR SWITCH
- $MX — MOTOR RATED TOGGLE SWITCH
- OS — CEILING MTD OCC. SENSOR
- VS — CEILING MOUNTED VACANCY SENSOR
- PC — PHOTOCELL
- T — THERMOSTAT

FIRE ALARM

- F — MANUAL PULL STATION 46" A.F.F. CENTER
- F 15 — SPEAKER/STROBE 82" A.F.F. TO CENTER
- F 15 — SPEAKER/STROBE - CEILING MTD.
- S — STROBE ONLY 82" A.F.F. TO CENTER
- S 15 — STROBE ONLY - CEILING MTD.
- SMOKE DETECTOR
- HEAT DETECTOR
- DUCT DETECTOR
- FS — SPRINKLER FLOW SWITCH
- TS — TAMPER FLOW SWITCH
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANUNCIATOR PANEL
- FACVR — FIRE ALARM RADIO REPORTING TRANSCEIVER
- VEP — FIRE ALARM VOICE EVACUATION PANEL
- CM — FIRE ALARM CONTROL MODULE
- ECS — SS — EMERGENCY COMMUNICATION SYSTEM (SPEAKER STROBE)
- MIC — FIRE ALARM MICROPHONE PANEL
- NAC — NOTIFICATION ALARM CIRCUIT

SECURITY

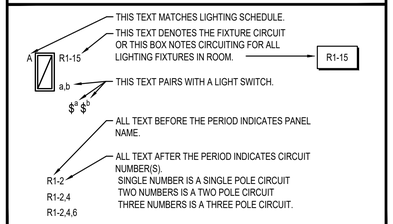
- C — CAMERA
- KP — KEY PAD
- CR — CARD READER
- REX — REQUEST TO EXIT DEVICE
- ES — ELECTRIC STRIKE

ELECTRICAL ABBREVIATIONS

ALL ABBREVIATIONS MAY OR MAY NOT BE USED

AC	ABOVE COUNTERTOP	MDP	MAIN DISTRIBUTION PANEL
AFF	ABOVE FINISH FLOOR	MTD	MOUNTED
AFG	ABOVE FINISH GRADE	NL	NIGHT LIGHT
ANNC	ANNUNICIATOR	OCC	OCCUPANCY
CC	CONTROLS CONTRACTOR	OVD	OVERHEAD DOOR
DPST	DOUBLE POLE SINGLE THROW	PC	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR	PE	PHOTOELECTRIC CELL
EM	EMERGENCY	PNL	PANEL
EX	EXISTING	SPST	SINGLE POLE SINGLE THROW
EXR	EXISTING RELOCATED	TC	TIME CLOCK
GC	GENERAL CONTRACTOR	TCP	TIME CLOCK - PHOTOCELL
GFCI	GROUND FAULT CIRCUIT INTERRUPT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
IBC	INTERNATIONAL BUILDING CODE	UNO	UNLESS NOTED OTHERWISE
IG	ISOLATED GROUND	WG	WIRE GUARD
HP	HORSEPOWER	WP	WEATHER PROOF
LV	LOW VOLTAGE	20A	20 AMP
MD	MOTORIZED DAMPER	Ø	PHASE
MC	MECHANICAL CONTRACTOR	3W	3 WIRE
MCA	MINIMUM CIRCUIT AMPS	20/1	20 AMP SINGLE PHASE

CIRCUITING



GENERAL ELECTRICAL NOTES

1. ALL WORK SHALL BE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES AND/OR ORDINANCES.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. E.C. SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE BUT NOT LIMITED TO TRANSFORMER, METERING AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.
3. SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
4. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY.
5. INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF FIXTURES FROM STRUCTURE.
6. UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.
7. ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL SYSTEM FOR THE PROJECT. AT LEAST ONE 120 VOLT SINGLE PHASE RECEPTACLE SHALL BE PROVIDED FOR EACH 500 SQUARE FEET OF FLOOR SPACE. SUFFICIENT TEMPORARY LIGHTING SHALL BE PROVIDED TO ALLOW ALL CONTRACTORS TO COMPLETE THEIR WORK. TEMPORARY ELECTRICAL CIRCUITS SHALL BE EQUIPPED WITH COMBINATION GROUND FAULT INTERRUPTER AND CIRCUIT BREAKER PER NEC. TEMPORARY ELECTRICAL SYSTEM SHALL BE INCLUDED IN THIS BID. USAGE CHARGES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
9. FOR ALL COMMUNICATIONS DEVICES, ELECTRICAL CONTRACTOR SHALL PROVIDE A 4" SQUARE, MINIMUM 2-1/8" DEEP BACKBOX WITH SINGLE GANG MUD RING AND 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING WITH 90 DEGREE BEND INTO THE ROOM AND PLASTIC BUSHING. PROVIDE CAT 6 CABLING PER SPECIFICATIONS.
10. PROTECT TELEMETRY AND OTHER LOW VOLTAGE CABLE FROM DEMOLITION OPERATIONS. DO NOT DISRUPT WITHOUT WRITTEN OWNER APPROVAL UPON 5 DAY MINIMUM NOTICE.
11. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED COSTS AND SCHEDULING OF REQUIRED ELECTRICAL INSPECTIONS.

OCCUPANCY SENSOR SCHEDULE

- OS — MULTI-TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR WITH LIGHT LEVEL SENSING AND CAPABLE OF DISABLING THE AUTO ADAPTING FEATURE. PROVIDE WITH RELAY\POWER PACKS AS REQUIRED PER PLAN (LOW VOLTAGE)
  LEVITON: OSC20-M
  WATTSTOPPER: DT-300
- $OS — MULTI-TECHNOLOGY WALL SINGLE SWITCH SENSOR, PIR AND ULTRASONIC WITH LIGHT LEVEL SENSING. FITS IN SINGLE GANG BOX, SINGLE TRIM RING AND CAPABLE OF DISABLING THE AUTO ADAPTING FEATURE:
  LEVITON: OSSMT
  SENSOR SWITCH: WSD-PDT
  WATTSTOPPER: DW-100
- $D OS — MULTI-TECHNOLOGY WALL SWITCH SENSOR PIR SWITCHING, DUAL RELAY, LIGHT LEVEL SENSING. FITS IN SINGLE GANG BOX, SINGLE TRIM RING AND CAPABLE OF DISABLING THE AUTO ADAPTING FEATURE:
  LEVITON: IPSD6-1LZ
  SENSOR SWITCH:
  WATTSTOPPER:
  COOPER:
- VS — ULTRASONIC CEILING MOUNTED VACANCY SENSOR (LOW VOLTAGE)
  WATTSTOPPER: UT-305
  PROVIDE WITH POWER PACKS AS REQUIRED PER LAYOUT. SENSOR SHALL BE WIRED/PROGRAMMED FOR MANUAL ON, NON-OCCUPANCY OFF OPERATION.

GENERAL NOTES:

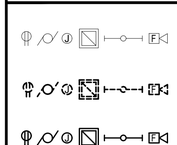
CEILING MOUNTED DEVICES SHALL BE WHITE.

WALL MOUNTED DEVICES SHALL BE IVORY TO MATCH MANUAL LIGHTING CONTROL.

ELECTRICAL DEMOLITION NOTES

1. THE ELECTRICAL DRAWINGS INDICATE EXISTING ELECTRICAL ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.
2. ELECTRICAL ITEMS (i.e., LIGHTING FIXTURES, RECEPTACLES, SWITCHES, ETC.) REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN (i.e., FOR MAINTENANCE PURPOSES).
3. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER BEFORE TURNING OFF POWER TO CIRCUITS, FEEDERS, PANELS, ETC. COORDINATE ALL OUTAGES WITH OWNER. CONDUIT CONCEALED IN WALL CONSTRUCTION MAY BE ABANDONED IN PLACE IF NOT AFFECTED BY OTHER CONSTRUCTION.
4. WHERE LIGHTS, SWITCHES, RECEPTACLES, ETC., ARE BEING REMOVED ALL ASSOCIATED CONDUIT AND WIRE BACK TO THE PANELBOARD OR FEEDER JUNCTION BOX SERVING THE DEVICE SHALL ALSO BE REMOVED, UNLESS THE CONDUIT CAN BE REUSED FOR NEW CONDUCTORS.
5. ALL CONDUIT SHALL BE REMOVED WHERE WALLS ARE BEING REMOVED. WHERE CONDUIT IS IN THE CONCRETE SLAB, CUT OFF FLUSH, PULL OUT WIRE, AND PLUG. WHERE CONDUIT IS RUN EXPOSED, ALL ASSOCIATED CLAMPS, SUPPORTS, HANGERS, ETC., SHALL ALSO BE REMOVED.
6. THIS CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE REMOVING EXISTING ELECTRICAL AND INSTALLING NEW ITEMS.
7. EXISTING CONDUIT IN GOOD CONDITION, MAY BE REUSED IN PLACE. RELOCATED EXISTING CONDUIT SHALL NOT BE ALLOWED. BONDING CONDUCTORS SHALL BE INSTALLED IN ALL REUSED CONDUIT TO ASSURE PROPER GROUND PATH.
8. EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.
9. BALLASTS MANUFACTURED PRIOR TO 1980 CONTAIN PCBs AND SHALL BE DISPOSED OF BY A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS.
11. HID AND FLUORESCENT LAMPS CONTAIN MERCURY AND SHALL BE DISPOSED OF BY A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS.

SYMBOL LINEWEIGHT LEGEND



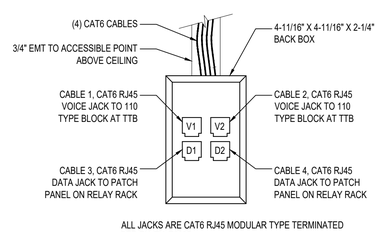
LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	REFERENCE CATALOG #	LAMPS	VOLTS	NOTES
A	2'x2' LED ARCHITECTURAL TROFFER, 3400 LUMENS, 4000K CCT, 0-10V DRIVER	METALUX LITHONIA H.E. WILLIAMS	ENCOUNTER SERIES 2ALL2 SERIES HET SERIES	38W LED	UNV	-
B1	2'x2' LED VOLUMETRIC TROFFER, 3000 LUMENS, 4000K CCT	METALUX LITHONIA H.E. WILLIAMS	AT2 SERIES 2VTL2 SERIES AT2 SERIES	30W LED	UNV	-
B2	2'x2' LED VOLUMETRIC TROFFER, 2000 LUMENS, 4000K CCT	METALUX LITHONIA H.E. WILLIAMS	AT2 SERIES 2VTL2 SERIES AT2 SERIES	18W LED	UNV	-
C1	2'x2' LED SPECIFICATION GRADE TROFFER, 4300 LUMENS, 4000K CCT	METALUX LITHONIA H.E. WILLIAMS	GRLED SERIES 2GTL2 SERIES 50 STATIC SERIES	40W LED	UNV	-
C2	2'x2' LED SPECIFICATION GRADE TROFFER, 2600 LUMENS, 4000K CCT	METALUX LITHONIA H.E. WILLIAMS	GRLED SERIES 2GTL2 SERIES 50 STATIC SERIES	20W LED	UNV	-
D1	2' LED INDUSTRIAL STRIP, 5600 LUMENS, 4000K CCT, FROSTED ACRYLIC LENS, SURFACE MOUNTED	METALUX LITHONIA H.E. WILLIAMS	SNLED SERIES ZL2N SERIES 80 SERIES	43W LED	UNV	-
D2	4' LED INDUSTRIAL STRIP, 5600 LUMENS, 4000K CCT, FROSTED ACRYLIC LENS, CHAIN MOUNTED	METALUX LITHONIA H.E. WILLIAMS	SNLED SERIES ZL2N SERIES 80 SERIES	43W LED	UNV	-
	EXIT SIGN WITH WHITE HOUSING, RED LETTERING, BATTERY BACK-UP, SELF DIAGNOSTIC	SURE LITES LITHONIA H.E. WILLIAMS	APX SERIES EXR SERIES EXIT SERIES	2W LED	UNV	-
F1	6" LED DOWNLIGHT, 1000 LUMENS, 4000K CCT, SPECULAR CLEAR REFLECTOR, WHITE FLANGE	PORTFOLIO LITHONIA GOTHAM	LDR6 SERIES LDN6 SERIES EVO SERIES	13W LED	UNV	-
F2	6" LED DOWNLIGHT, 1800 LUMENS, 4000K CCT, SPECULAR CLEAR REFLECTOR, WHITE FLANGE, DAMP LOCATION LISTED	PORTFOLIO LITHONIA GOTHAM	LDR6 SERIES LDN6 SERIES EVO SERIES	21W LED	UNV	-
F3	6" LED SHOWER LIGHT 1000 LUMENS, 4000K CCT, DROP ACRYLIC DIFFUSER, WET LOCATION LISTED	GOTHAM LITHONIA H.E. WILLIAMS	EVO SERIES L60 SERIES LSL60 SERIES	10W LED	UNV	-
G	6' SURFACE MOUNTED DIRECT/INDIRECT LINEAR FIXTURE, LIGHT LEVEL 1 UP/DOWN, 4000K CCT, EXTRUDED ALUMINUM HOUSING, WHITE FINISH, FLUSH ACRYLIC LENS	NEO RAY LUMENWERX H.E. WILLIAMS	DEFINE 4 SERIES VIA 4 SERIES LX4WUD SERIES	52W LED	UNV	-
H	LED WALL PACK, 4000K CCT, TYPE IV FORWARD THROW DISTRIBUTION, BRONZE FINISH	LUMARK LITHONIA H.E. WILLIAMS	XTOR SERIES OLWX1 SERIES VWMMV SERIES	12W LED	UNV	-
I	4 FT HIGH BAY LED, 28000 LUMENS, ACRYLIC FROSTED LENS, GENERAL DISTRIBUTION, 4000K CCT, 80CRI.	LITHONIA	IBG SERIES	385W LED	UNV	-
IE	4 FT HIGH BAY LED, 28000 LUMENS, ACRYLIC FROSTED LENS, GENERAL DISTRIBUTION, 4000K CCT, 80CRI, EMERGENCY BATTERY BACKUP.	LITHONIA	IBG SERIES	385W LED	UNV	-
J	WALL MOUNTED UP-LIGHT, LED, 18,000 LUMENS, NATATORIUM GRADE.	LITHONIA	FHE LED SERIES	150W LED	UNV	-

GENERAL NOTES:
1. PROVIDE MASTER/SATELLITE CONFIGURATION WHERE APPLICABLE.
2. PROVIDE SINGLE OR DUAL BALLASTED FIXTURES PER LAYOUT. MULTI-TAP BALLASTS ACCEPTABLE.
3. FIXTURES SHALL BE U.S.A. MADE.
4. ALL FIXTURES WITH THE LETTER "E" AFTER THEIR TYPE WILL BE SUPPLIED WITH BATTERY BACKUP RATED AT 90 MINUTES OF OPERATING TIME AT 1400 LUMENS.

ELECTRICAL SHEET INDEX

E0.1	ELECTRICAL COVER SHEET
E1.0	LIGHTING DEMOLITION PLAN - AREA 'A'
E1.1	POWER & SYSTEMS DEMOLITION PLAN - AREA 'A'
E1.2	LIGHTING DEMOLITION PLAN - AREA 'B'
E1.3	POWER & SYSTEMS DEMOLITION PLAN - AREA 'B'
E1.4	LIGHTING DEMOLITION PLAN - AREA 'C'
E1.5	POWER & SYSTEMS DEMOLITION PLAN - AREA 'C'
E2.0	LIGHTING PLAN - AREA 'A'
E2.1	LIGHTING PLAN - AREA 'B'
E2.2	LIGHTING PLAN - AREA 'C'
E3.0	POWER & SYSTEMS PLAN - AREA 'A'
E3.1	POWER & SYSTEMS PLAN - AREA 'B'
E3.2	POWER & SYSTEMS PLAN - AREA 'C'
E4.0	ELECTRICAL RISER DIAGRAMS - DEMOLITION
E4.1	ELECTRICAL RISER DIAGRAMS - NEW
E5.0	ELECTRICAL SCHEDULES
E5.1	ELECTRICAL PANEL SCHEDULES



1 WIRED COMMUNICATION OUTLET DETAIL

NOT TO SCALE

NOTE:
1. REFER TO SPECIFICATION 26 05 53 FOR IDENTIFICATION REQUIREMENTS.

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.9680 | F: 715.832.9668 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: PCC	Cad by: PCC	Date: 08/15/21	
Dwn by: BBL	Reviewed by:	Rev.	
		Work Order No 1168	Project Number ES 12003-2J
		Submitted by: DPW	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

ELECTRICAL COVER SHEET

SHEET NUMBER:
E0.1
SHEET 83 of 116

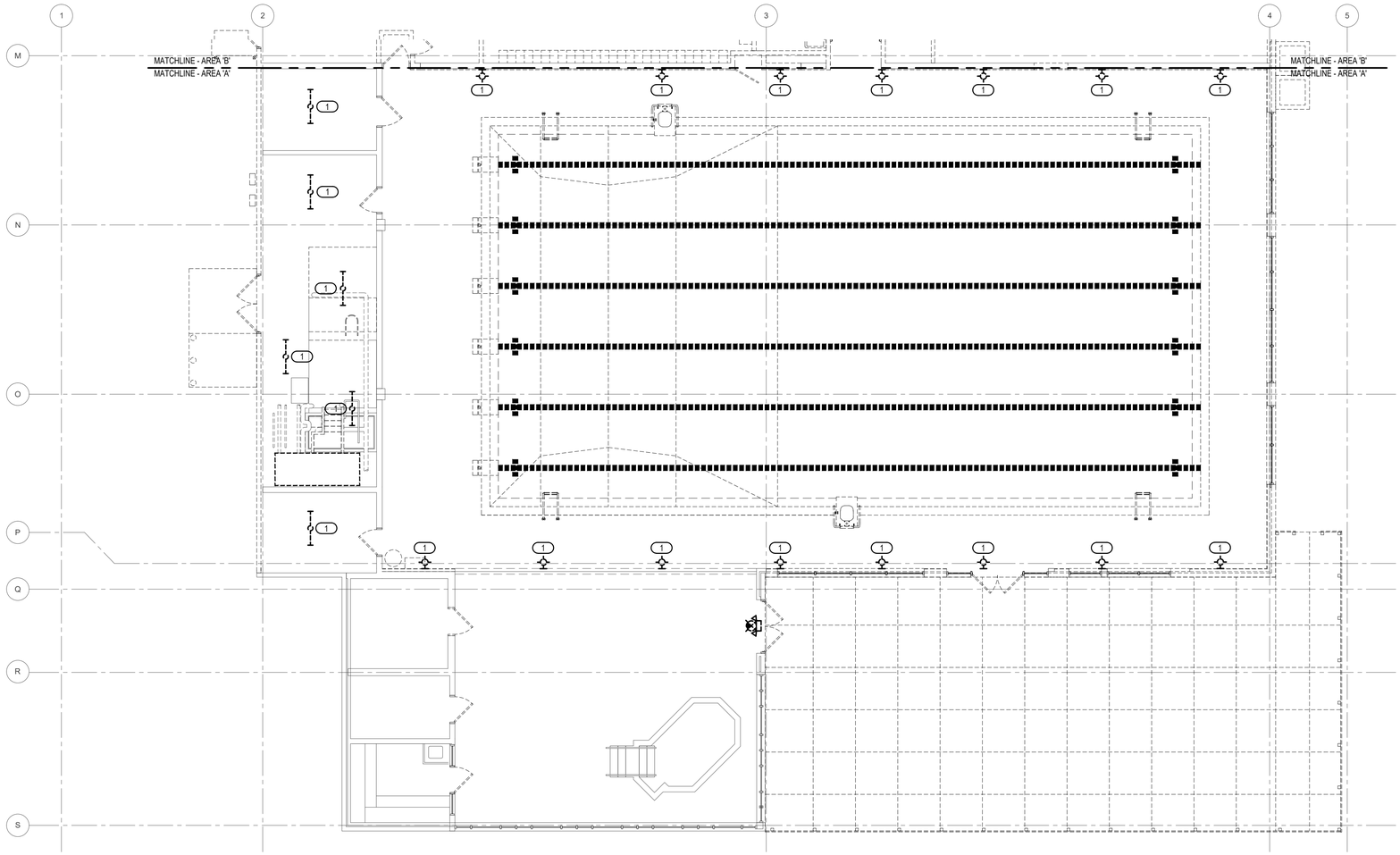
Plot date:

GENERAL NOTES

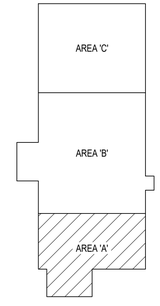
1. REFER TO SHEET E0.0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, LEGENDS, SCHEDULES AND ABBREVIATIONS.
2. REFER TO SHEET E4.0 FOR DEMOLITION ONE-LINE DIAGRAMS.

KEYED NOTES

(1) REMOVE EXISTING LIGHTING FIXTURE AND RETAIN EXISTING CIRCUITING FOR USE WITH NEW LIGHTING FIXTURE.



1 LIGHTING DEMOLITION PLAN - AREA 'A'
1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

NORTH

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MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MCCOY, WI 54656

LIGHTING DEMOLITION PLAN
AREA 'A'

Designed by: JCL	Ckd by: PCC	Date: 09/15/21	
Dwn by: JCL	Reviewed by:	Rev.	
	Submitted by: DPW	Work Order No 1186	Project Number ES 12003-2J

SHEET NUMBER:
E1.0
SHEET 84 of 116

Plot date:

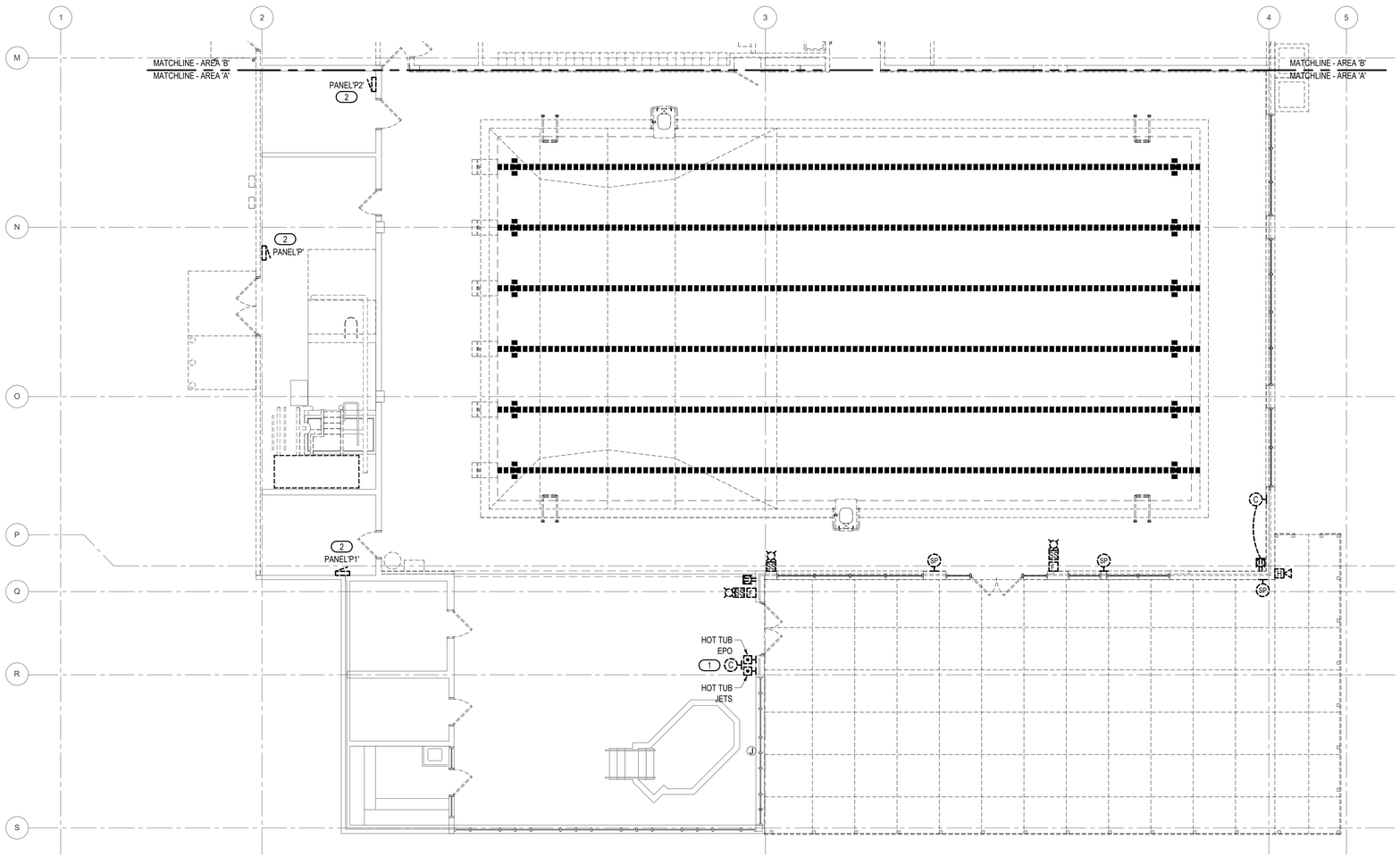
GENERAL NOTES

1. REFER TO SHEET E0.0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, LEGENDS, SCHEDULES AND ABBREVIATIONS.
2. REFER TO SHEET E4.0 FOR DEMOLITION ONE-LINE DIAGRAMS.

KEYED NOTES

(1) TEMPORARILY REMOVE AND RETAIN ALL RECEPTACLES AND PUSH BUTTON STATIONS SERVING THE SPA, AS REQUIRED, TO ACCOMMODATE INSTALLATION OF NEW WINDOWS AND NEW EXTERIOR WALL CONSTRUCTION. REFER TO NEW PLAN FOR ADDITIONAL INFORMATION.

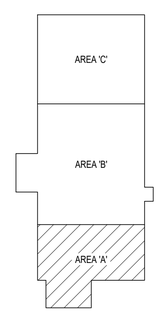
(2) EXISTING PANEL SHALL BE REMOVED. REMOVE CONDUIT AND FEEDER BACK TO SOURCE. RETAIN EXISTING CIRCUITING FOR TERMINATION TO NEW PANEL.



1 POWER & SYSTEMS DEMOLITION PLAN - AREA 'A'

1/8" = 1'-0"

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2720 Arbor Court | Eau Claire, WI 54701
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MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: JCL	Chd by: PCC	Date: 09/15/21	
Dwn by: JCL	Reviewed by:	Rev.	Work Order No 1186
FORT McCOY DIRECTORATE OF PUBLIC WORKS 2171 SOUTH 8TH AVE. FORT MC COY, WI 54656		Submitted by: DPW	Project Number ES 122003-2J

POWER & SYSTEMS
DEMOLITION PLAN AREA 'A'

SHEET NUMBER:

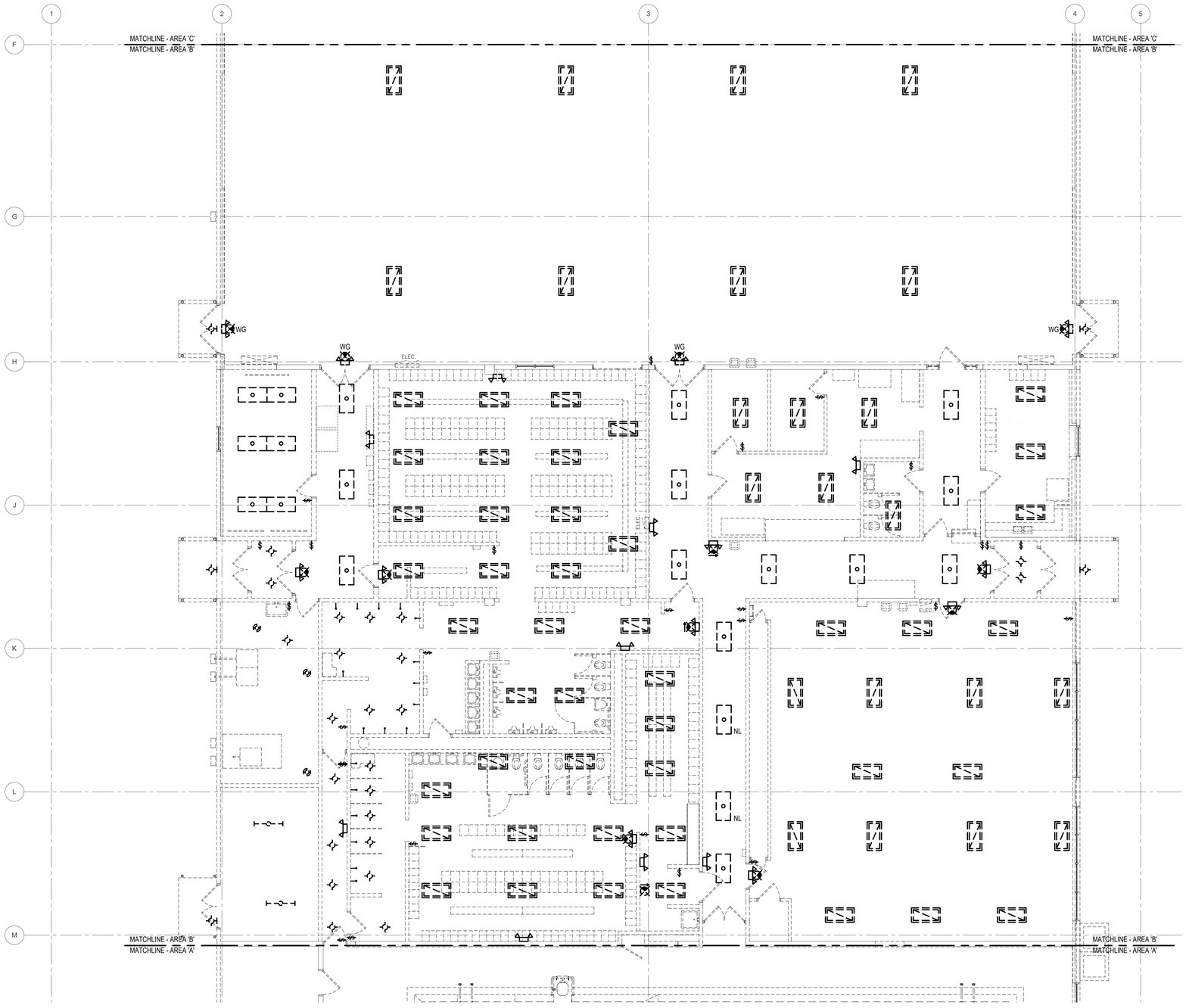
E1.1

SHEET 85 of 116

Plot date:

GENERAL NOTES

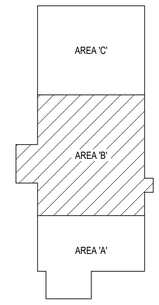
1. REFER TO SHEET E0.0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, LEGENDS, SCHEDULES AND ABBREVIATIONS.
2. REFER TO SHEET E4.0 FOR DEMOLITION ONE-LINE DIAGRAMS.



1 ELECTRICAL LIGHTING DEMOLITION PLAN - AREA 'B'

1/8" = 1'-0"

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KEY PLAN

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2720 Arbor Court | Eau Claire, WI 54701
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MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

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REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT McCOY, WI 54656

Designed by:	Date:
BBL	08/15/21
Dwn by:	Ckd by:
BBL	PCC
Reviewed by:	Work Order No
	1166
Submitted by:	Project Number
DPW	ES 12003-2J

LIGHTING DEMOLITION PLAN
AREA 'B'

SHEET NUMBER:
E1.2
SHEET 86 of 116

Plot date:

GENERAL NOTES

1. REFER TO SHEET E0.0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, LEGENDS, SCHEDULES AND ABBREVIATIONS.
2. REFER TO SHEET E4.0 FOR DEMOLITION ONE-LINE DIAGRAMS.

KEYED NOTES

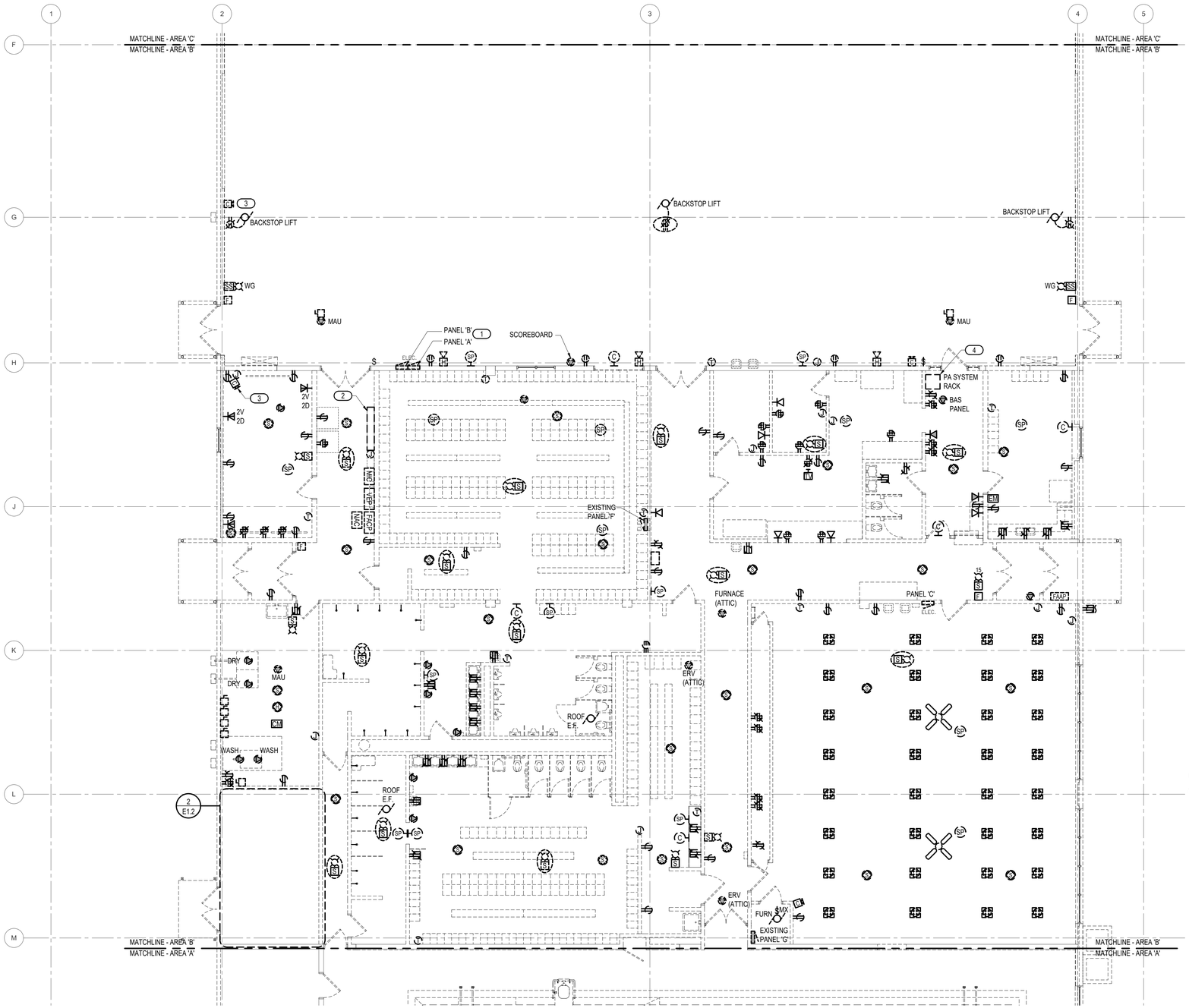
(1) DEMOLISH EXISTING PANELBOARD BUSSING INTERIORS, FEEDER CONDUCTORS, CIRCUIT BREAKERS, ETC. BUT RETAIN EXISTING BRANCH CIRCUITS AND PANEL TUBS FOR REUSE. DOCUMENT EXISTING CIRCUIT BREAKER SIZES PRIOR TO DEMOLITION TO ENSURE EXISTING LOADS BEING RETAINED ARE REFED WITH THE SAME AMPERAGES.

(2) LOCATION OF HVAC SYSTEM CONTROLLERS AND TIME CLOCKS. TEMPORARILY REMOVE AND RETAIN FOR RELOCATION. COORDINATE TIMING OF REMOVAL WITH MC. REFER TO NEW PLANS FOR ADDITIONAL INFORMATION.

(3) SECURITY CAMERA SHALL BE RETAINED FOR REUSE. REFER TO NEW PLAN FOR LOCATION.

(4) P.A., TV, AND SOUND SYSTEM RACK AND COMPONENTS SHALL BE RETAINED FOR RELOCATION AND REUSE. ELECTRICAL CONTRACTOR SHALL HIRE NLfx PROFESSIONAL FOR REMOVAL AND RELOCATION OF EXISTING SYSTEM COMPONENTS AND CABLING.
CONTACT INFO: KYLE SORENSON 218.444.2994, KYLE@NLFXPRO.COM

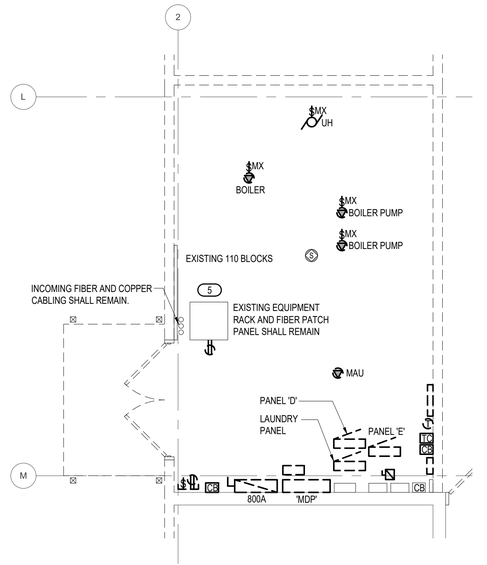
(5) COORDINATE REMOVAL OF EXISTING DATA PATCH PANELS AND ABANDONED VOICE CABLING, 110 BLOCKS, ETC. WITH OWNER. FIBER OPTIC PATCH PANEL SHALL REMAIN. NEW DATA CABLING AND VOICE CABLING SHALL BE ROUTED TO NEW IT ROOM.



1 ELECTRICAL POWER & SYSTEMS DEMOLITION PLAN - AREA 'B'

1/8" = 1'-0"

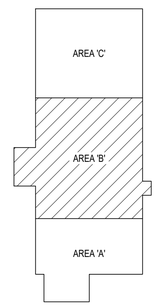
NORTH



2 ENLARGED DEMOLITION PLAN - AREA 'B'

1/4" = 1'-0"

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KEY PLAN

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DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

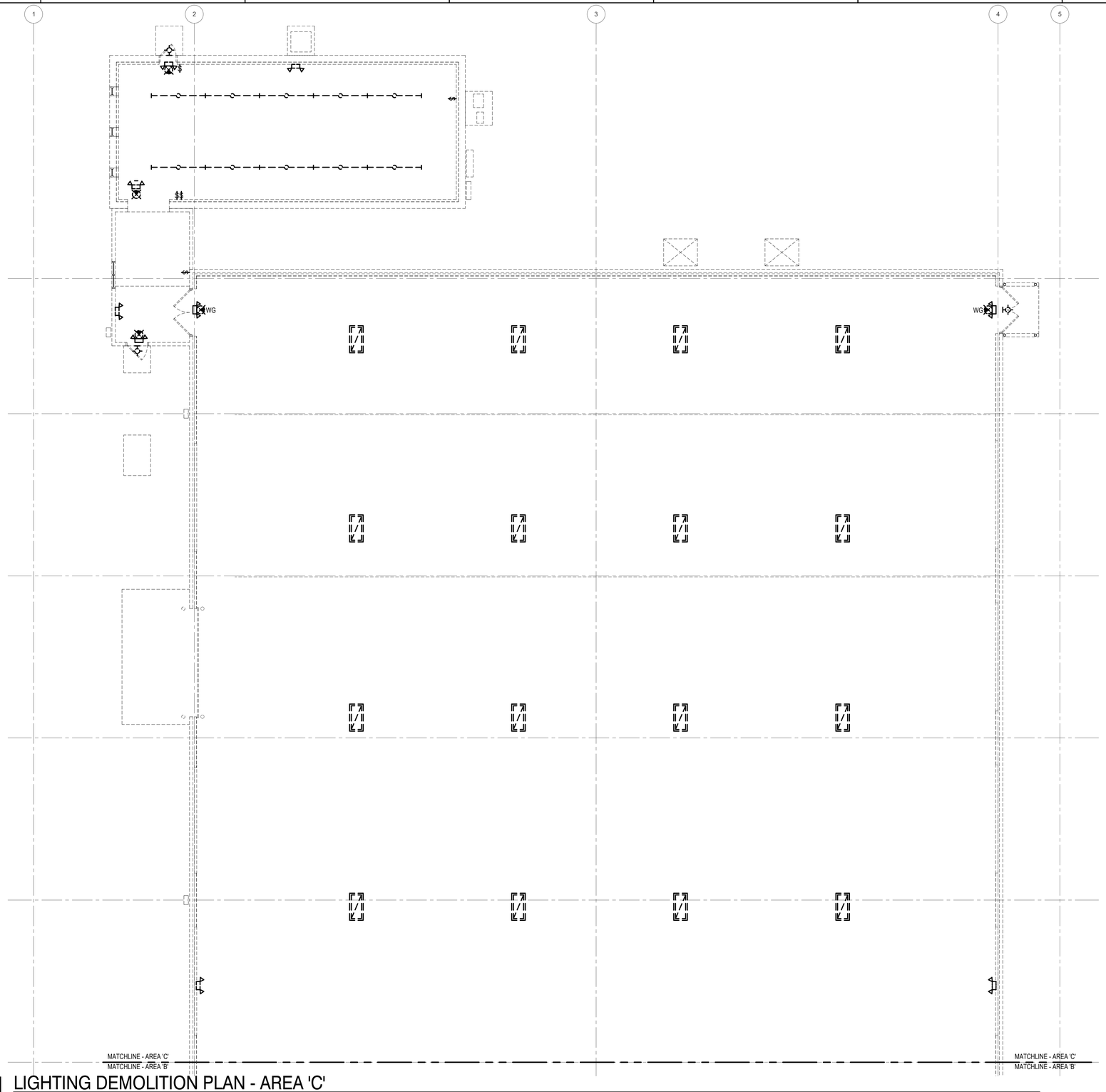
Designed by:	Chd by:	Rev.	Date:
BBL	PCC		08/15/21
Dwn by:		Work Order No	Project Number
BBL		1166	ES 12003-2J
Reviewed by:		Submitted by:	
		DPW	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

POWER & SYSTEMS
DEMOLITION PLAN – AREA 'B'

SHEET NUMBER:
E1.3
SHEET 87 of 116

Plot date:

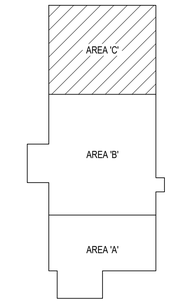


1 LIGHTING DEMOLITION PLAN - AREA 'C'

1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET E0.0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, LEGENDS, SCHEDULES AND ABBREVIATIONS.
2. REFER TO SHEET E4.0 FOR DEMOLITION ONE-LINE DIAGRAMS.



KEY PLAN

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MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MC COY, WI 54656

LIGHTING DEMOLITION PLAN
AREA 'C'

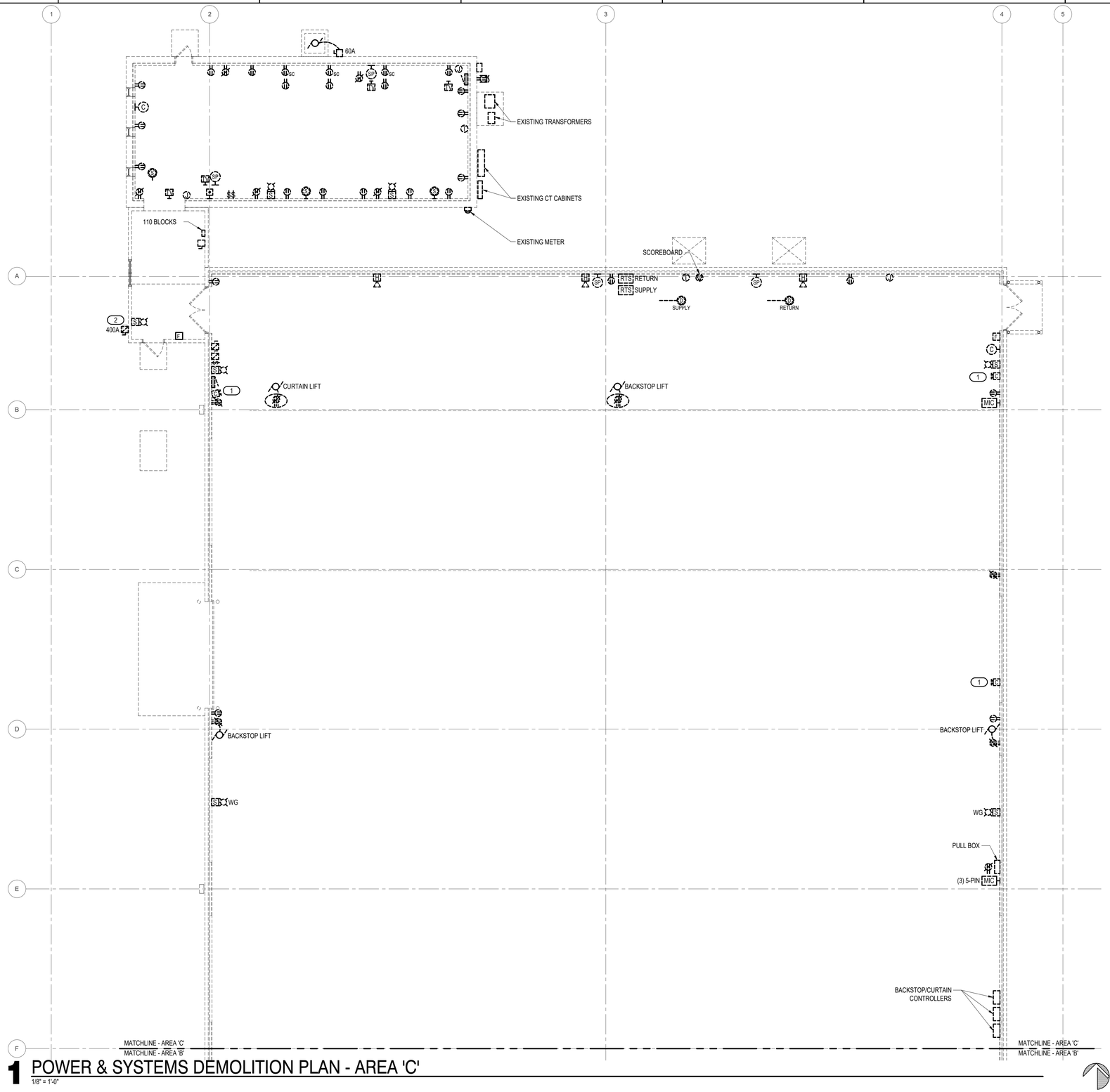
Designed by: JCL		Date: 09/15/21	
Dwn by: JCL	Ckd by: PCC	Rev.	
Reviewed by:		Work Order No 1186	Project Number ES 12003-2J
Submitted by: DPW			

SHEET NUMBER:

E1.4

SHEET 88 of 116

Plot date:



1 POWER & SYSTEMS DEMOLITION PLAN - AREA 'C'

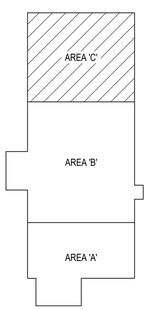
1/8" = 1'-0"

GENERAL NOTES

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2. REFER TO SHEET E4.0 FOR DEMOLITION ONE-LINE DIAGRAMS.

KEYED NOTES

1. RETAIN EXISTING SECURITY CAMERA FOR REUSE
2. EXISTING 400A DISCONNECT SERVING SHOW POWER SHALL BE REMOVED.



KEY PLAN

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MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MCCOY, WI 54656

POWER & SYSTEMS
DEMOLITION PLAN AREA 'C'

Designed by: JCL	Date: 08/15/21		
Dwn by: JCL	Ckd by: PCC	Rev.	
Reviewed by:		Work Order No 1166	Project Number ES 120003-2J
Submitted by: DPW			

SHEET NUMBER:

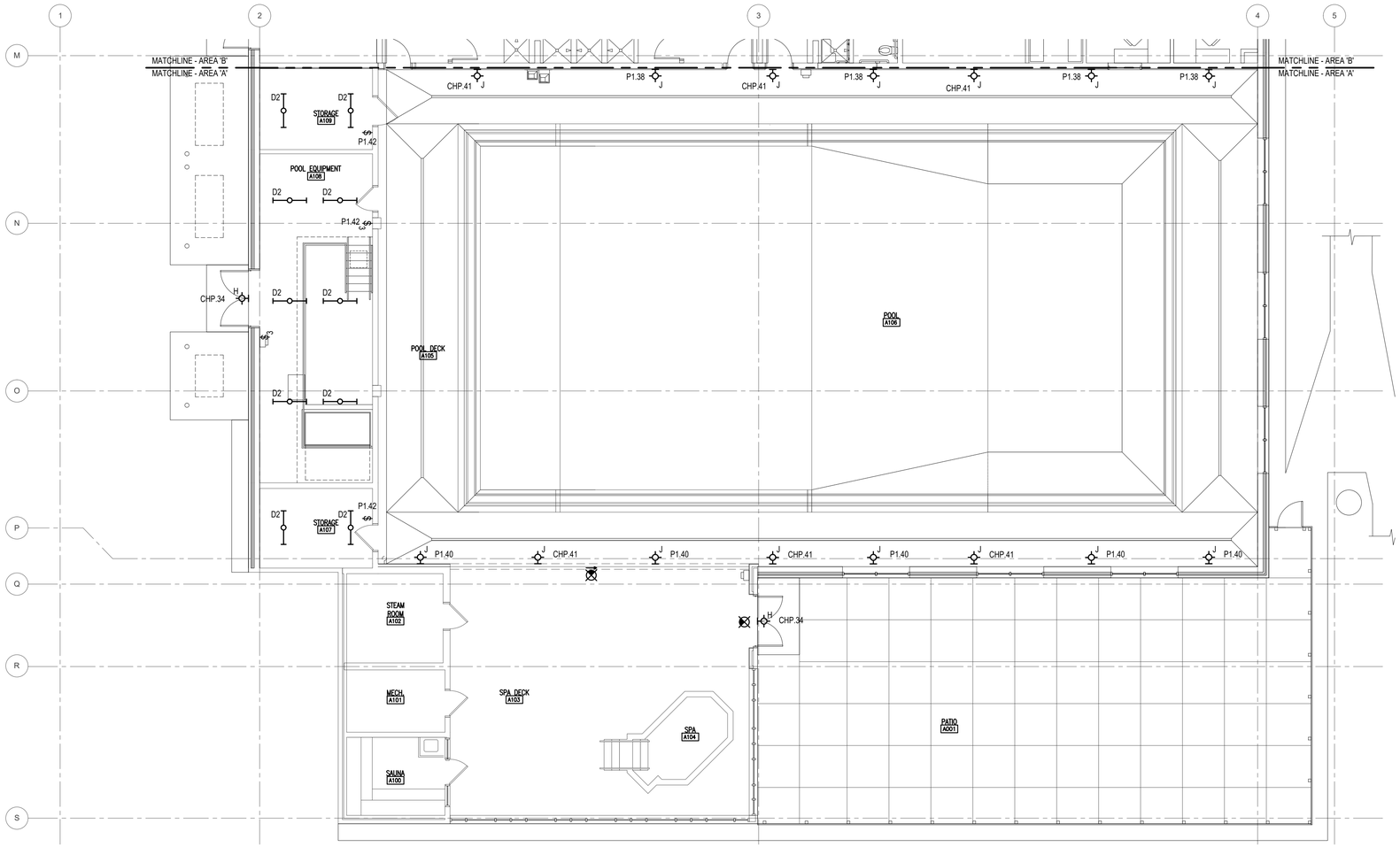
E1.5

SHEET 89 of 116

Plot date:

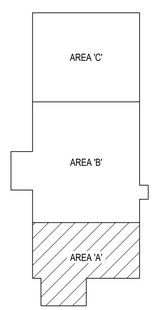
GENERAL NOTES

1. REFER TO SHEET E0.0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, LEGENDS, SCHEDULES AND ABBREVIATIONS.



1 LIGHTING PLAN - AREA 'A'
1/8" = 1'-0"

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KEY PLAN
NOT TO SCALE

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DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD.#

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: JCL
Drn by: JCL
Ckd by: PCC
Reviewed by:
Date: 09/15/21
Rev.
Work Order No 1186
Project Number ES 12003-24
Submitted by: DPW

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 6TH AVE.
FORT MCCOY, WI 54656

LIGHTING PLAN
AREA 'A'

SHEET NUMBER:
E2.0
SHEET 90 of 116

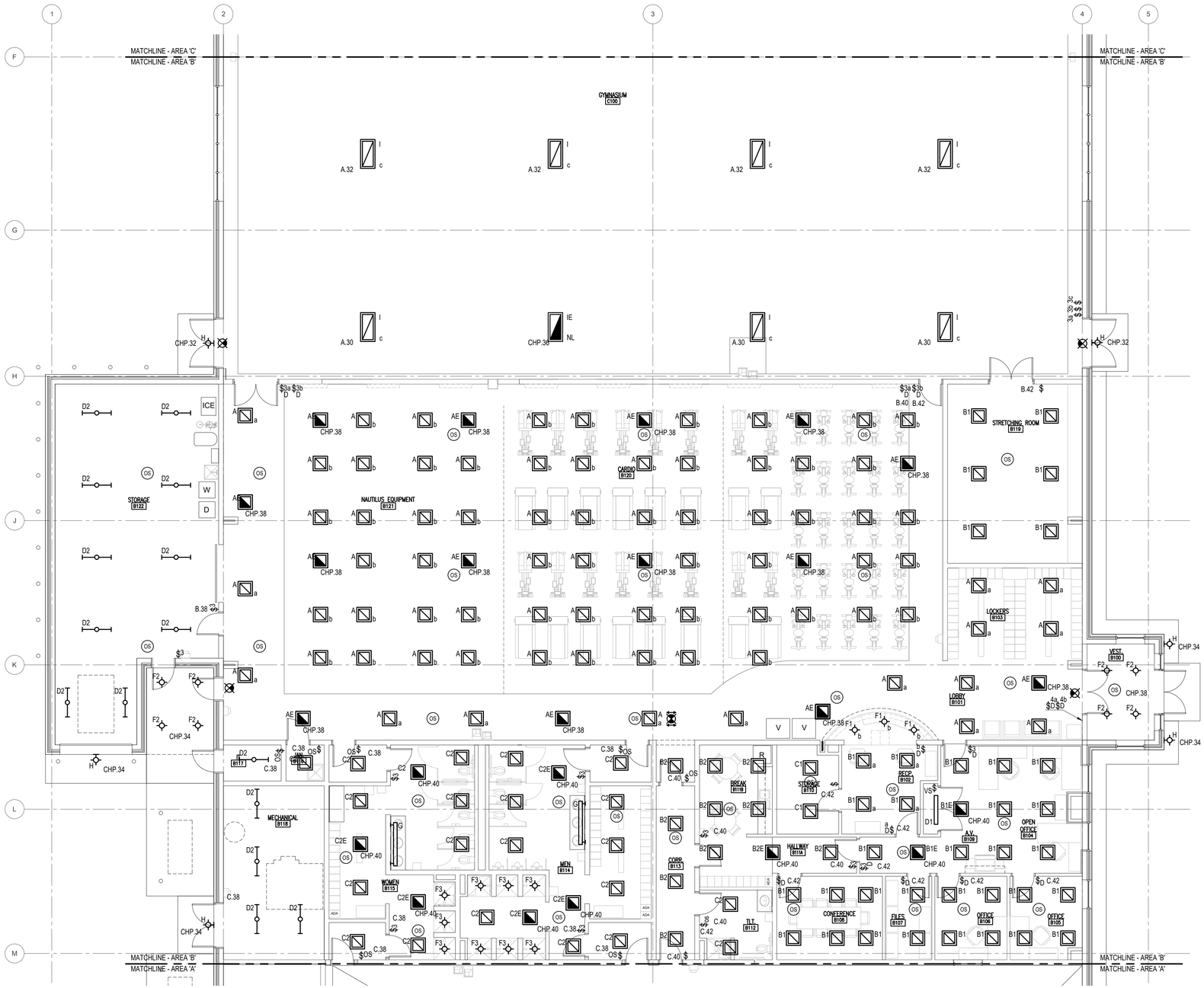
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engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
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MEP PROJECT NO.: S01.17.02

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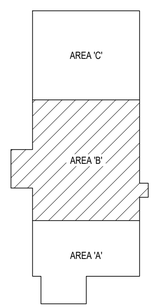
GENERAL NOTES

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1 LIGHTING PLAN - AREA 'B'

1/8" = 1'-0"



KEY PLAN

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DPW
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REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: JCL
Drwn by: JCL
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Date: 08/15/21
Rev.
Work Order No 1186
Submitted by: DPW
Project Number ES 12003-2J

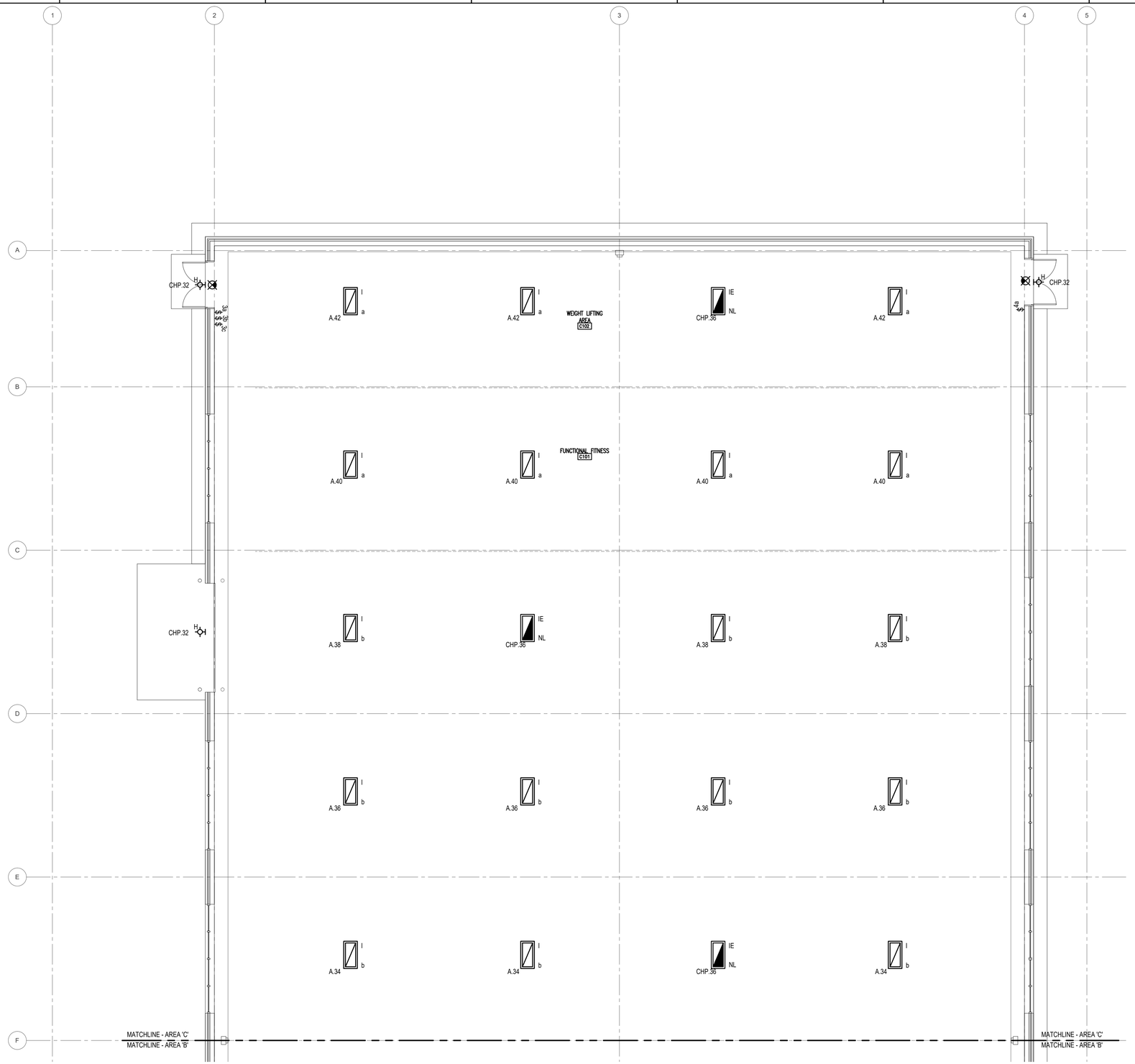
FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MCCOY, WI 54656

LIGHTING PLAN
AREA 'B'

SHEET NUMBER:
E2.1

SHEET 91 of 116

Plot date:



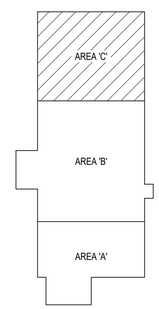
1 LIGHTING PLAN - AREA 'C'

1/8" = 1'-0"

NORTH

GENERAL NOTES

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KEY PLAN

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MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

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REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: JCL		Date: 08/15/21	
Dwn by: JCL	Ckd by: PCC	Rev.	
Reviewed by:		Work Order No 1186	
Submitted by: DPW		Project Number ES 12003-2J	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

LIGHTING PLAN
AREA 'C'

SHEET NUMBER:
E2.2

SHEET 92 of 116

Plot date:

POOL EQUIPMENT COORDINATION SCHEDULE

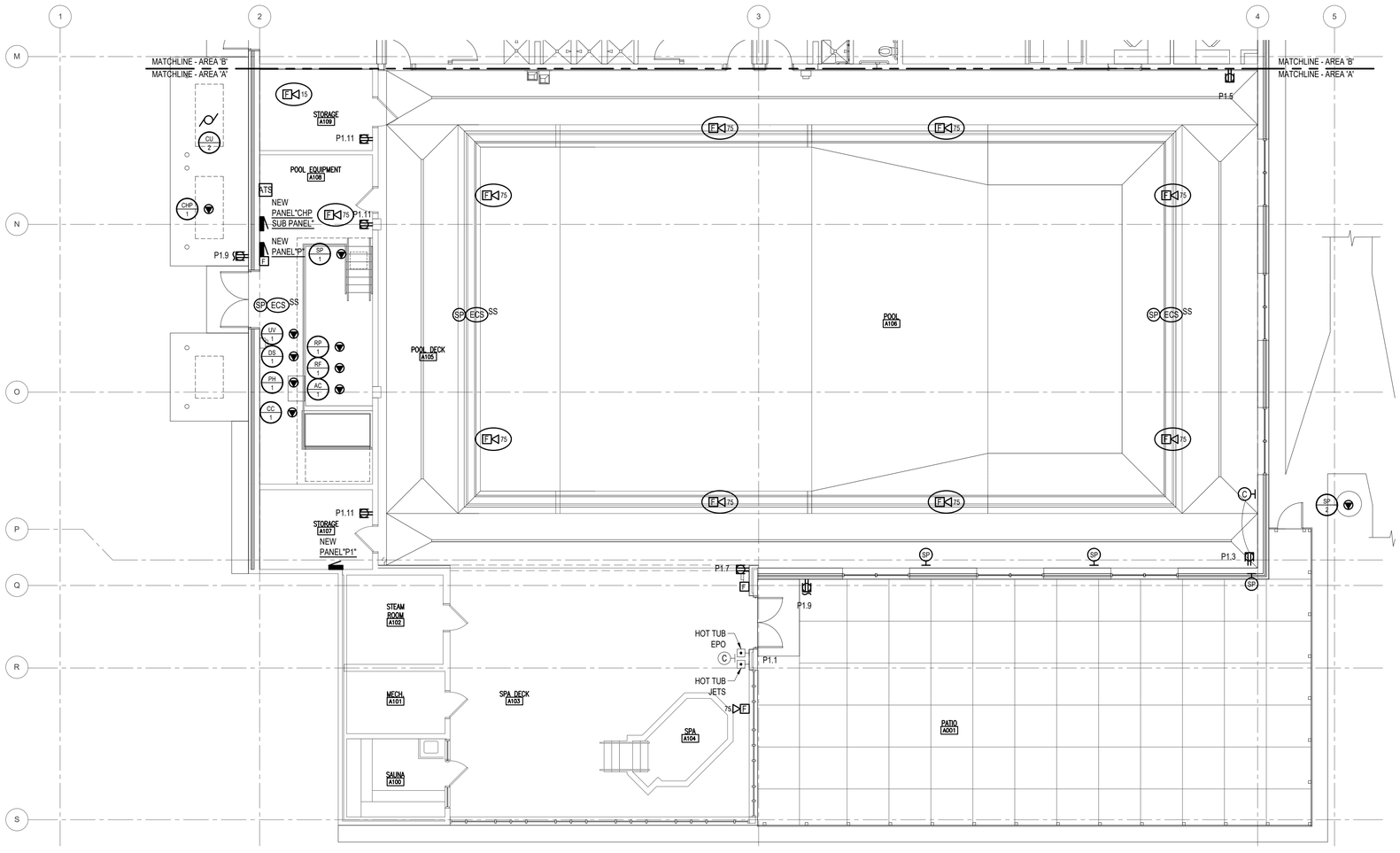
TAG	DESCRIPTION	HP / KW	MCA RLA/FLA	VOLTS	CONDUCTORS			CONDUIT	LOCATION	PANEL	BREAKER SIZE	STARTER			DISCONNECT			NOTE
					PH	N	GND					TYPE	FURNISHED BY	INSTALLED BY	TYPE	FURNISHED BY	INSTALLED BY	
UV-1	UV CONTROL BOX		30 MCA	208/1	(2) #10	-	#10	3/4"	POOL RM	P	30/2	INT	EQM	EQM	NF	EC	EC	2,4
DS-1	DISINFECTANT SYTEM		20 MCA	120/1	#12	#12	#12	1/2"	POOL RM	P	20/1	INT	EQM	EQM	NF	EC	EC	2,4
DS-2	DISINFECTANT SYSTEM		20 MCA	120/1	#12	#12	#12	1/2"	POOL RM	CC-1	20/1	INT	EQM	EQM	NF	EC	EC	2,3,4
PH-1	PH ADJUSTMENT SYSTEM		20 MCA	120/1	#12	#12	#12	1/2"	POOL RM	P	20/1	INT	EQM	EQM	NF	EC	EC	2,4
PH-2	PH ADJUSTMENT SYSTEM		20 MCA	120/1	#12	#12	#12	1/2"	POOL RM	CC-1	20/1	INT	EQM	EQM	NF	EC	EC	2,3,4
CC-1	CHEMICAL CONTROLLER		12.25 FLA	120/1	#12	#12	#12	1/2"	POOL RM	P	20/1	INT	EQM	EQM	NF	EC	EC	2,4
AC-1	AIR COMPRESSOR		15 FLA	120/1	#12	#12	#12	1/2"	POOL RM	P	20/1	INT	EQM	EQM	NF	EC	EC	2,4
RF-1	REGENERATIVE FILTER		20 MCA	120/1	#12	#12	#12	1/2"	POOL RM	P	20/1	INT	EQM	EQM	NF	EC	EC	2,4
RP-1	RECIRCULATION PUMP	20 HP		208/3	(3) #4	-	#8	1 1/2"	POOL RM	P	100/3	VFD	PS	EC	VFD	PS	EC	1,4

GENERAL NOTES:
A. COORDINATE INSTALLATION OF MOTORS WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS.
B. CONTROL WIRING SHALL BE BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE.
C. MCA=MINIMUM CIRCUIT AMPS; MOCP=MINIMUM OVER-CURRENT PROTECTION; RLA=RATED LOAD AMPS; FLA=FULL LOAD AMPS
D. EC=ELECTRICAL CONTRACTOR; MC=MECHANICAL CONTRACTOR; INT=INTERGRAL TO UNIT; EQM=EQUIPMENT MANUFACTURER, VFD=VARIABLE FREQUENCY DRIVE, COMB=COMBINATION STARTER/DISCONNECT, NF=NON-FUSED DISCONNECT, SC=SPEED CONTROLLER, TH=THERMOSTAT

MOTOR SCHEDULE NOTES:
1. VFD IS TO BE SUPPLIED BY EQUIPMENT MANUFACTURER. VFD TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
2. PROVIDE HP RATED, NEMA 3R NON-FUSED DISCONNECT AT UNIT FOR DISCONNECTING MEANS.
3. PROVIDE ADDITIONAL 120V CONNECTION TO UNIT FROM CHEMICAL CONTROLLER..
4. LOW VOLTAGE CONTROL WIRING TO BE INSTALLED BY POOL SUPPLIER.

GENERAL NOTES

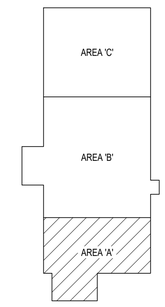
1. REFER TO SHEET E0.0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, LEGENDS, SCHEDULES AND ABBREVIATIONS.



1 POWER & SYSTEMS PLAN - AREA 'A'

1/8" = 1'-0"

NORTH



KEY PLAN

NOT TO SCALE

NORTH

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FORT MCCOY, WI

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REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: JCL	Cad by: PCC	Rev.	Date: 09/15/21
Dwn by: JCL	Reviewed by:	Work Order No 1186	Project Number ES 120003-2J
		Submitted by: DPW	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MC COY, WI 54656

POWER & SYSTEMS PLAN
AREA 'A'

SHEET NUMBER:
E3.0
SHEET 93 of 116

Plot date:

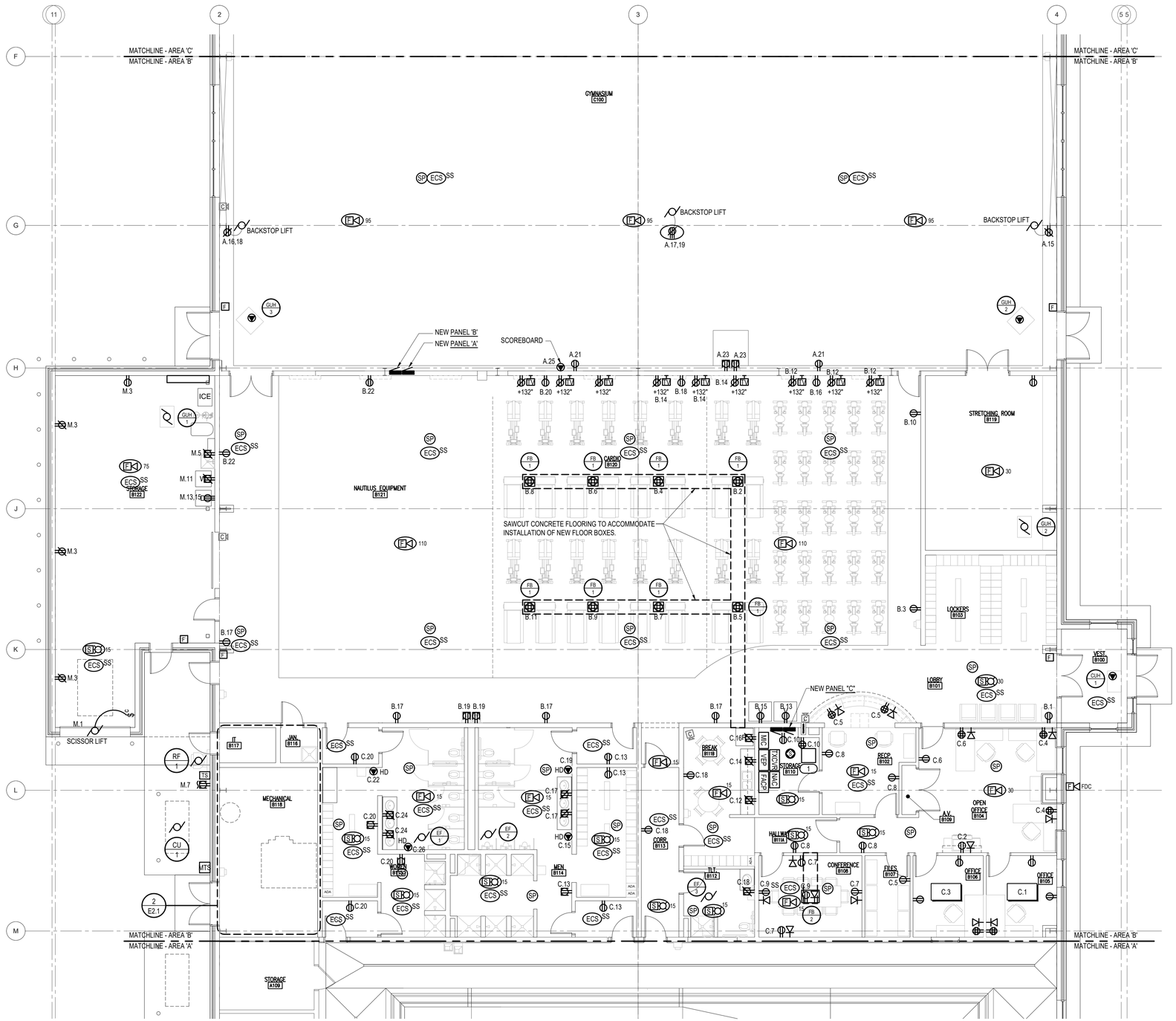
GENERAL NOTES

1. REFER TO SHEET E0.0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, LEGENDS, SCHEDULES AND ABBREVIATIONS.

KEYED NOTES

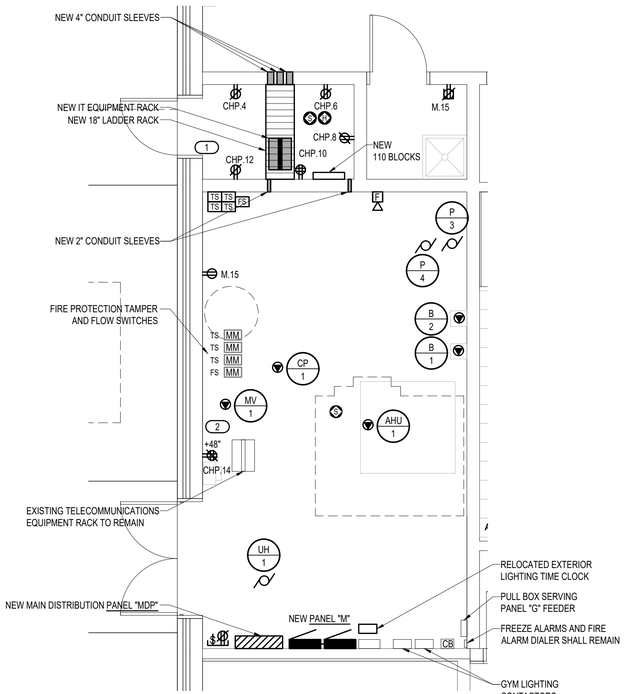
(1) RELOCATED PA, TV, AND SOUND SYSTEM RACK AND COMPONENTS.

(2) EXTEND INCOMING FIBER FROM LOCATION TO NEW SYSTEM RACK. FIRBER SSHALL BE 12-STRAND OM4, 50UM, MULTI-MODE ARMORED FIBER OPTIC CABLE, "LC" CONNECTIONS, AQUA COLOR.



1 POWER & SYSTEMS PLAN - AREA 'B'

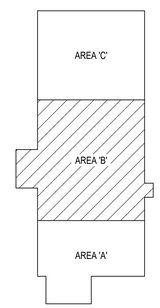
1/8" = 1'-0"



2 ENLARGED POWER & SYSTEMS PLAN - AREA 'B'

1/4" = 1'-0"

NORTH



KEY PLAN

NOT TO SCALE

NORTH

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engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5668 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

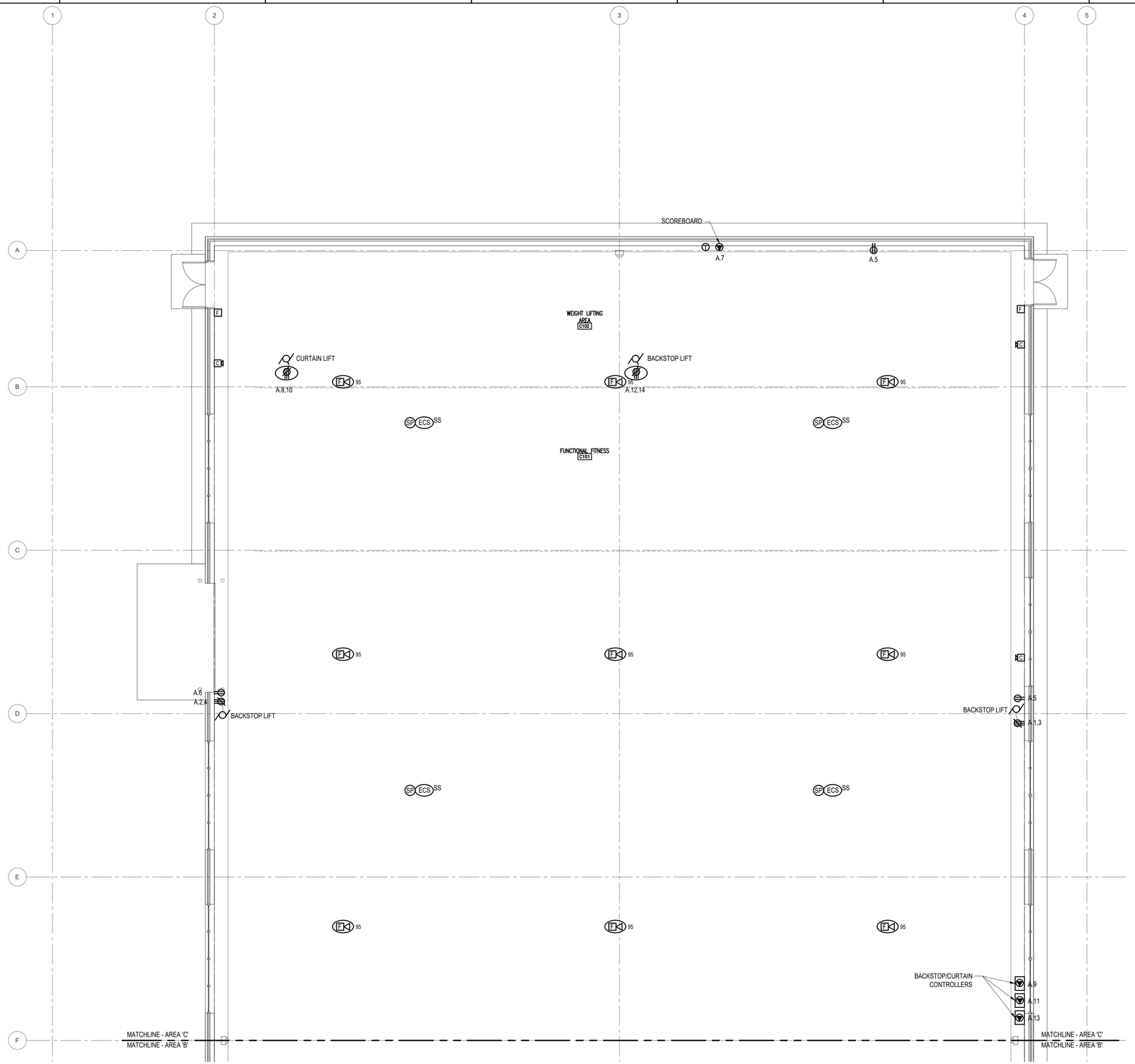
Designed by:	Date:
JCL	08/15/21
Dwn by:	Chk'd by:
JCL	PCC
Reviewed by:	Work Order No.
	11186
Submitted by:	Project Number
DPW	ES 12003-2J

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MC COY, WI 54656

POWER & SYSTEMS PLAN
AREA 'B'

SHEET NUMBER:
E3.1
SHEET 94 of 116

Plot date:



1 POWER & SYSTEMS PLAN - AREA 'C'

1/8" = 1'-0"

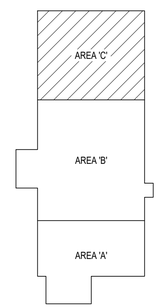
NORTH

GENERAL NOTES

1. REFER TO SHEET E0.0 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, LEGENDS, SCHEDULES AND ABBREVIATIONS.

KEY PLAN

NOT TO SCALE



NORTH

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD.#

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
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FORT MC COY, WI 54656

POWER & SYSTEMS PLAN
AREA 'C'

Designed by: JCL	Chd by: PCC	Date: 08/15/21	
Dwn by: JCL		Rev.	
Reviewed by:		Work Order No 1186	Project Number ES 12003-2J
Submitted by: DPW			

SHEET NUMBER:
E3.2
SHEET 95 of 116

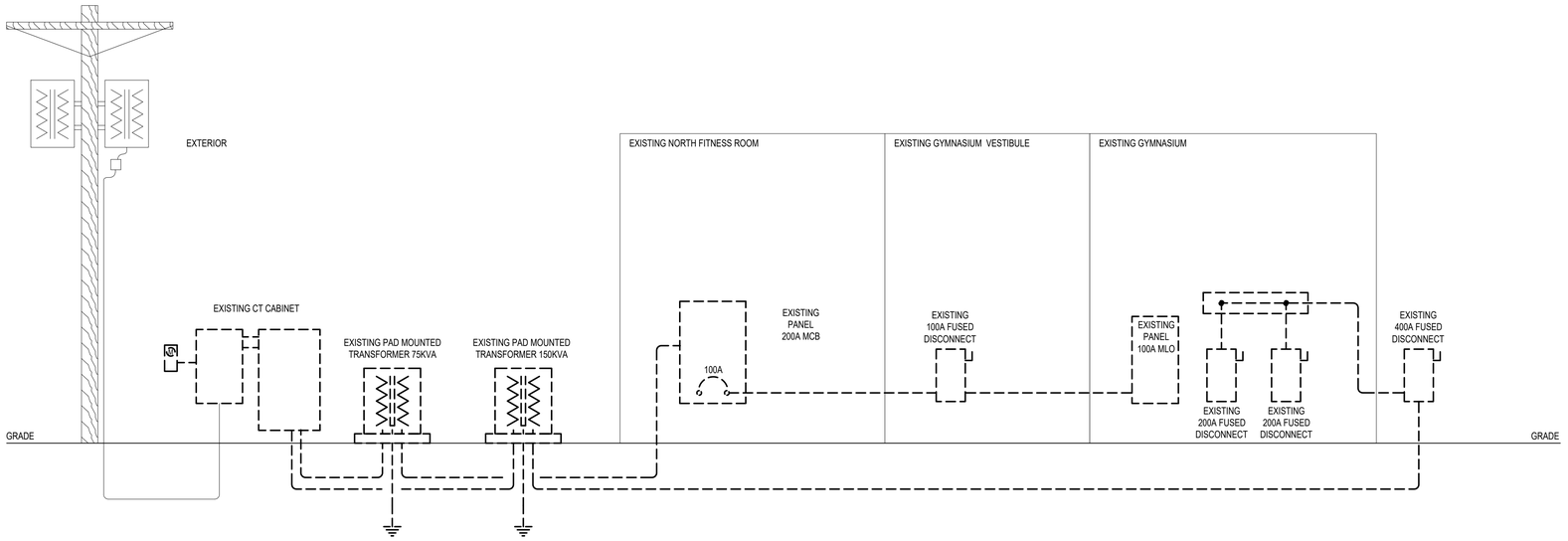
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engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5680 | F: 715.832.5688 | mepassociates.com

MEP PROJECT NO.: S01.17.02

Plot date:

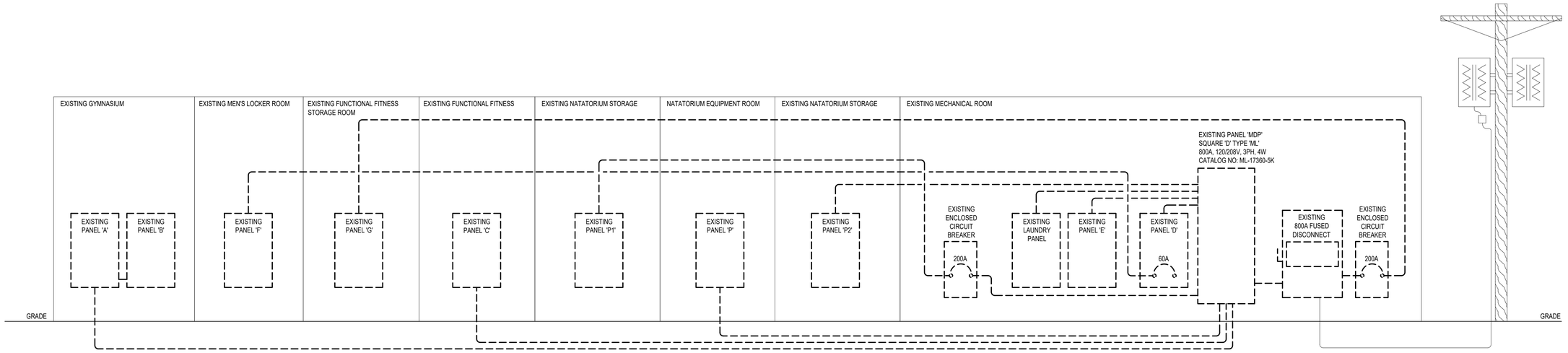
GENERAL NOTES

1. REFER TO SHEET E0.1 FOR GENERAL ELECTRICAL NOTES, SYMBOLS, LEGENDS, SCHEDULES AND ABBREVIATIONS.



1 ONE-LINE DIAGRAM - DEMOLITION

NOT TO SCALE



2 ONE-LINE DIAGRAM - DEMOLITION

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2720 Arbor Court | Eau Claire, WI 54701
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MEP PROJECT NO.: S01.17.02

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FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD.#

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

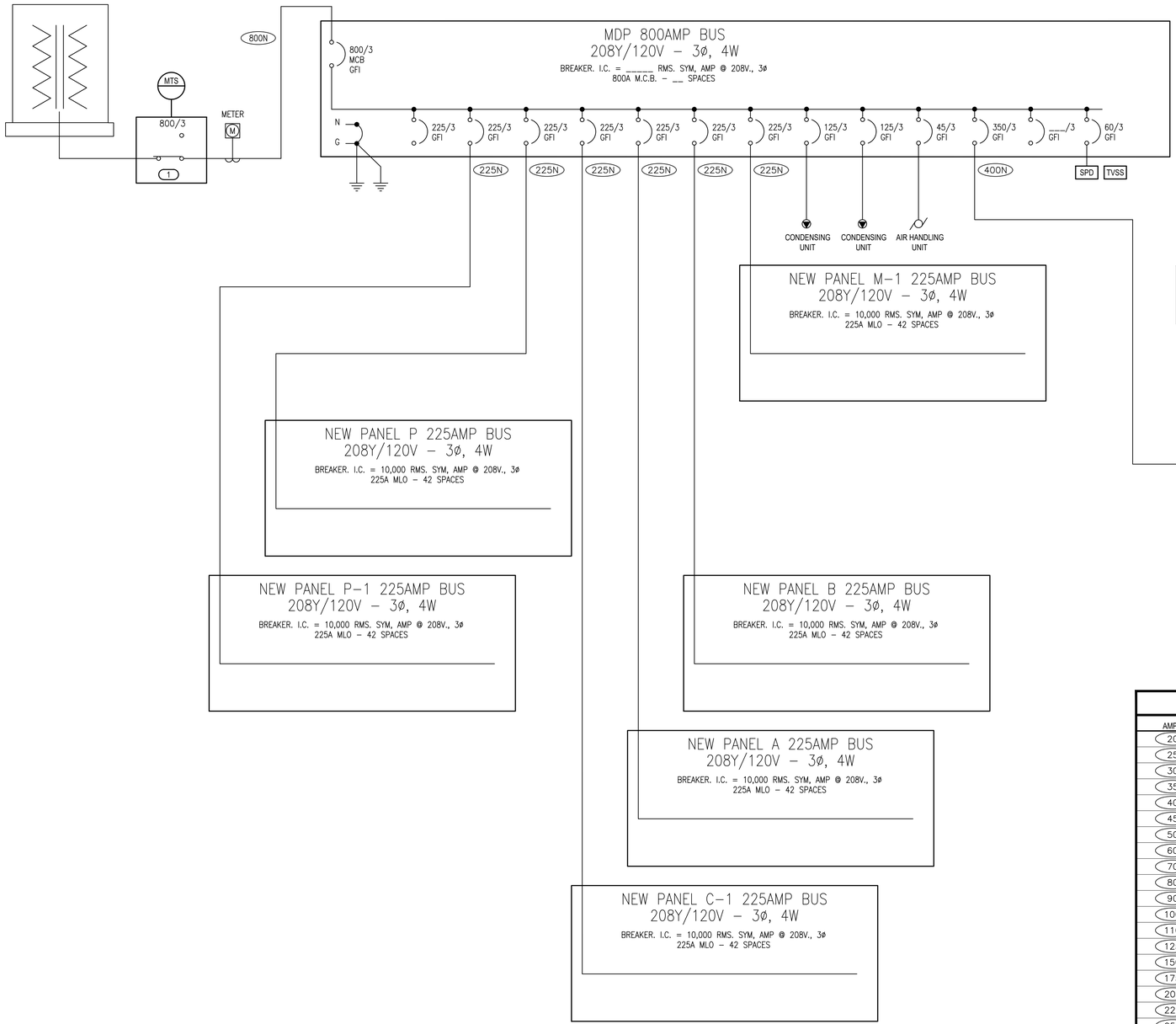
Designed by: PCC	Ckd by: PCC	Date: 08/15/21	
Dwn by: BBL	Reviewed by:	Rev.	Work Order No 1186
Submitted by: DPW			Project Number ES 12003-2J

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2171 SOUTH 8TH AVE
FORT MCCOY, WI 54656

ELECTRICAL
RISER DIAGRAMS – DEMOLITION

SHEET NUMBER:
E4.0
SHEET 96 of 116

Plot date:



KEYED NOTES

1. PROVIDE MANUAL TRANSFER SWITCH FOR TEMPORARY GENERATOR CONNECTION. PROVIDE A WEATHERPROOF CONNECTION BOX ON THE EXTERIOR WITH CAM-LOCKS. SIZED FOR FULL SERVICE. PROVIDE KIRK-KEY INTERLOCKS BETWEEN GENERATOR CIRCUITBREAKER AND MAIN CIRCUIT BREAKER.

FEEDER SCHEDULE

AMPS	CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIPMENT GROUND CONDUCTOR
20	3/4"	3/4"	#12	#12
25	3/4"	3/4"	#10	#10
30	3/4"	3/4"	#10	#10
35	1"	3/4"	#8	#10
40	1"	3/4"	#8	#10
45	1"	1"	#6	#10
50	1"	1"	#6	#10
60	1 1/4"	1 1/4"	#4	#10
70	1 1/4"	1 1/4"	#4	#8
80	1 1/4"	1 1/4"	#3	#8
90	1 1/2"	1 1/4"	#2	#8
100	2"	1 1/2"	#1	#8
110	1 1/2"	1 1/4"	#2	#6
125	2"	1 1/2"	#1	#6
150	2"	1 1/2"	#1/0	#6
175	2"	2"	#2/0	#6
200	2"	2"	#3/0	#6
225	2 1/2"	2"	#4/0	#4
250	3"	2 1/2"	250 kcmil	#4
300	3"	3"	350 kcmil	#4
350	3 1/2"	3"	500 kcmil	#3
400	(2) 2"	(2) 2"	2 SETS OF #3/0	#3
450	(2) 2 1/2"	(2) 2"	2 SETS OF #4/0	#2
500	(2) 2 1/2"	(2) 2 1/2"	2 SETS OF 250 kcmil	#2
600	(2) 3"	(2) 3"	2 SETS OF 350 kcmil	#1
700	(2) 3 1/2"	(2) 3"	2 SETS OF 500 kcmil	#1/0
800	(3) 3"	(3) 2 1/2"	3 SETS OF 300 kcmil	#1/0

NOTES:

1. FEEDER SIZES ARE ON THE PLAN WHERE 60 REFERS TO A 60A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL.
2. SOME FEEDER SIZES DO NOT MATCH BREAKER SIZE DUE TO UP-SIZING OF THE FEEDER FOR VOLTAGE DROP.
3. CONDUITS ARE SIZED PER NEC TABLES FOR THHN/THWN AND MAY BE UPSIZED FOR EASE OF PULLING OR DOWNSIZED AS ALLOWED PER NEC FOR CONDUIT TYPE(S) BEING INSTALLED.
4. ALL CONDUCTORS 100A AND LESS ARE SIZED PER 60 DEGREE LUGS, EC MAY SIZE CONDUCTORS FOR ACTUAL RATING OF LUGS PER NEC.

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.9680 | F: 715.832.5688 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MOD #	DATE	MOD REQUEST # - DESCRIPTION	MARK

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Date: 08/15/21
Rev.
Work Order No 1166
Project Number ES 120003-2J

Designed by: PCC
Drawn by: BBL
Cked by: PCC
Reviewed by:
Submitted by: DPW

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MCCOY, WI 54656

ELECTRICAL
RISER DIAGRAMS – NEW

SHEET NUMBER:
E4.1
SHEET 97 of 116

Plot date:

MECHANICAL & PLUMBING EQUIPMENT CONNECTION SCHEDULE

EQUIP TAG	EQUIPMENT NAME	VOLTS/ PHASE	FULL LOAD AMPS	HP	KW/KVA	MCA	LOCATION	CONDUCTORS			CONDUIT	FED FROM PANEL	CIRCUIT NUMBER	CIRCUIT BREAKER	STARTER/VFD/ OTHER	STARTER/VFD/ OTHER FURNISHED BY	STARTER/VFD/ OTHER INSTALLED BY	DISCONNECT TYPE-SIZE-NEMA	DISCONNECT FURNISHED BY	DISCONNECT INSTALLED BY	NOTES
								PHASE	NEUTRAL	GND											
EF-1	EXHAUST FAN	120/1	S.8	1/4		7.3	ROOF	#12	#12	#12	1/2"	C	41	20/1	INT	EQM	EQM	NF	EQM	EQM	
EF-2	EXHAUST FAN	120/1	9.8	1/2		12.3	ROOF	#12	#12	#12	1/2"	C	39	20/1	INT	EQM	EQM	NF	EQM	EQM	
EF-2	EXHAUST FAN	120/1	4.4	1/6		S.S	B112	#12	#12	#12	1/2"	C	37	20/1	INT	EQM	EQM	NF	EQM	EQM	
RF-1	RELIEF FAN	208/3	-	S		22.0	ROOF	(3) #12	-	#12	1/2"	M	21,23,2S	3S/3	VFD	MC	EC	VFD	MC	EC	
UH-1	HOT WATER HEATER	120/1	0.8	16 WATTS		1.0	B118	#12	#12	#12	1/2"	B	41	20/1	INT	EQM	EQM	NF	EC	EC	
GUH-1	GAS FIRED UNIT HEATER	120/1	3	1/20		3.8	B122	#12	#12	#12	1/2"	CHP	1	20/1	INT	EQM	EQM	NF	EC	EC	
GUH-2	GAS FIRED UNIT HEATER	120/1	6	1/8		7.S	C100	#12	#12	#12	1/2"	CHP	3	20/1	INT	EQM	EQM	NF	EC	EC	
GUH-3	GAS FIRED UNIT HEATER	120/1	6	1/8		7.S	C100	#12	#12	#12	1/2"	CHP	S	20/1	INT	EQM	EQM	NF	EC	EC	
CUH-1	CABINET UNIT HEATER	120/1	0.37	1/4		0.S	B100	#12	#12	#12	1/2"	CHP	9	20/1	INT	EQM	EQM	NF	EC	EC	
CUH-2	CABINET UNIT HEATER	120/1	0.37	1/4		0.S	B100	#12	#12	#12	1/2"	CHP	11	20/1	INT	EQM	EQM	NF	EC	EC	
AHU-1A	AIR HANDLING UNIT	208/3	-	7.S(3)		83.0	B118	(3) #6	-	#10	1"	CHP	29,31,33	4S/3	INT	EQM	EQM	NF	EQM	EQM	
CU-1	CONDENSING UNIT	208/3	-	1/3(3)		64.0	EXTERIOR	(3) #1	-	#6	2"	MDP	-	12S/3	INT	EQM	EQM	NF	EC	EC	
CU-2	CONDENSING UNIT	208/3	-	1/3(3)		64.0	EXTERIOR	(3) #1	-	#6	2"	MDP	-	12S/3	INT	EQM	EQM	NF	EC	EC	
B-1	BOILER	120/1	12	-		15.0	B118	#12	#12	#12	1/2"	CHP	13	20/1	INT	EQM	EQM	NF	EC	EC	
B-2	BOILER	120/1	12	-		15.0	B118	#12	#12	#12	1/2"	CHP	15	20/1	INT	EQM	EQM	NF	EC	EC	
P-1	BOILER PUMP	120/1	7.2	1/3		9.0	B118	#12	#12	#12	1/2"	CHP	13	20/1	INT	EQM	EQM	NF	EC	EC	
P-2	BOILER PUMP	120/1	7.2	1/3		9.0	B118	#12	#12	#12	1/2"	CHP	1S	20/1	INT	EQM	EQM	NF	EC	EC	
P-3	HOT WATER PUMP	208/3	11	3		13.8	B117	(3) #12	-	#12	1/2"	CHP	17,19,21	20/3	VFD	MC	EC	VFD	MC	EC	
P-4	HOT WATER PUMP	208/2	11	3		13.8	B117	(3) #12	-	#12	1/2"	CHP	23,25,27	20/3	VFD	MC	EC	VFD	MC	EC	
CHP-1	COMBINATION HEATING/POWER UNIT	208/3			7S KW		EXTERIOR	2 SETS #3/0	-	#3	(2) 3"	MDP	-	3S0/3	INT	EQM	EQM	NF	EQM	EQM	
SP-1	SUMP PUMP	120/1		4/10			SEE PLAN	#12	#12	#12	1/2"	P1	1S	20/1	INT	EQM	EQM	NF	EC	EC	
SP-2	SUMP PUMP	120/1		4/10			SEE PLAN	#12	#12	#12	1/2"	P1	17	20/1	INT	EQM	EQM	NF	EC	EC	
MV-1	MIXING VALVE	120/1		1/20			SEE PLAN	#12	#12	#12	1/2"	M	8	20/1	INT	EQM	EQM	NF	EC	EC	
CP-1	CIRCULATION PUMP	120/1		1/20			SEE PLAN	#12	#12	#12	1/2"	M	10	20/1	INT	EQM	EQM	NF	EC	EC	

GENERAL NOTES:

A. COORDINATE INSTALLATION OF PUMPS, FANS, MOTORS, AND EQUIPMENT WITH MECHANICAL CONTRACTOR, REFER TO MECHANICAL DRAWINGS.
B. CONTROL WIRING SHALL BE BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE.
C. E.C. SHALL BE RESPONSIBLE FOR DETERMINING IF UPSIZING THE CONDUCTOR SIZES INDICATED IS REQUIRED FOR VOLTAGE DROP.
D. REFER TO SPECIFICATIONS FOR DISCONNECT, STARTER, COMBINATION STARTER, AND VFD REQUIREMENTS.
E. REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL REQUIREMENTS.
D. VFD SHALL BE PROVIDED WITH INTEGRAL FUSED DISCONNECTING MEANS AND LOCK-OUT TAG OUT CAPABILITY.

SCHEDULE NOTES:

1. INSTALL VFD IN EXISTING MECHANICAL ROOM PER PLANS.
2. COORDINATE FINAL CIRCUIT BREAKER AND WIRE SIZING WITH EXISTING OWNER PROVIDED EQUIPMENT.
3. COORDIANTE FUSE SIZES WITH VFD MANUFACTURER
4. VFD SHALL BE INSTALLED INDOORS. LOCAL DISCONNECTING MEANS AT EXTERIOR UNIT SHALL BE PROVIDED AND INSTALLED BY MANUFACTURER.
5.

ABBREVIATIONS:

HOA = HAND-OFF-AUTO
MS = MANUAL MOTOR STARTER (TOGGLE TYPE)
MX = MOTOR STARTING SWITCH (TOGGLE TYPE)
CS = COMBINATION STARTER/DISCONNECT
MCA = MINIMUM CIRCUIT AMPS
MOCP = MAXIMUM OVER CURRENT PROTECTION
RLA = RATED LOAD AMPS
FLA = FULL LOAD AMPS
TCC = TEMPERATURE CONTROLS CONTRACTOR
EX = EXISTING

W/UNIT = DEVICE INSTALLED AS PART OF UNIT
NF = NON-FUSED , F=FUSED
INT = INTERGRAL TO UNIT
EC = ELECTRICAL CONTRACTOR
MC = MECHANICAL CONTRACTOR
MFR = MANUFACTURER
O = OTHER
NEMA = 1, 3R, 4X
SC=SPEED CONTROLLER

PANELBOARD: PANEL B — **PANEL SOURCE:**

BUS AMPACTY 225A | VOLTS 120/208 | BRANCH BRKR POLES 42 | PHASE 3 | MLO AMPS | WIRES 4 | MCB A/P | SURFACE | RECESSED | A/C | FEED THRU LUGS | LOAD FED | LARGEST MOTOR FLA

LOAD TO BE FED	CCT #	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 #	LOAD TO BE FED
B101 RECEPT	1	20/1							20/1	2	B120 FLOORBOX
B120 RECEPT	3	20/1							20/1	4	B120 FLOORBOX
B120 FLOORBOX	5	20/1							20/1	6	B120 FLOORBOX
B120 FLOORBOX	7	20/1							20/1	8	B120 FLOORBOX
B120 FLOORBOX	9	20/1							20/1	10	B120 RECEPT
B120 FLOORBOX	11	20/1							20/1	12	B120 RECEPT
B120 RECEPT	13	20/1							20/1	14	B120 RECEPT
B120 RECEPT	15	20/1							20/1	16	B120 RECEPT
B120 RECEPT	17	20/1							20/1	18	B120 RECEPT
B120 RECEPT	19	20/1							20/1	20	B120 RECEPT
SPARE	21	20/1							20/1	22	B120 RECEPT
SPARE	23	20/1							20/1	24	SPARE
SPARE	25	20/1							20/1	26	SPARE
SPARE	27	20/1							20/1	28	SPARE
SPARE	29	20/1							20/1	30	SPARE
SPARE	31	20/1							20/1	32	SPARE
SPARE	33	20/1							20/1	34	SPARE
SPARE	35	20/1							20/1	36	SPARE
SPARE	37	20/1							20/1	38	B122 LIGHTING
SPARE	39	20/1							20/1	40	B120 LIGHTING
SPARE	41	20/1							20/1	42	B120 LIGHTING
CONNECTED LIGHTS											
CONNECTED RECEPTS											
CONNECTED HVAC BLOWERS											
CONNECTED HVAC A/C											
CONNECTED HVAC HTG											
CONNECTED HVAC											
CONNECTED MISC											
TOTAL PHASES											
TOTAL PANEL											
PANEL MCA											

NOTES:

PANELBOARD: PANEL "MDP" — **PANEL SOURCE:** UTILITY

BUS AMPACTY 800A | VOLTS 120/208 | BRANCH BRKR POLES 42 | PHASE 3 | MLO AMPS | WIRES 4 | MCB A/P 800A | SURFACE X | RECESSED | A/C 26000 | FEED THRU LUGS NO | LOAD FED | LARGEST MOTOR FLA 7.2

LOAD TO BE FED	CCT #	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 #	LOAD TO BE FED
PANEL A	1	225/3	7,500			7,200			125/3	2	CU-1
-	3	-		7,500			7,200		-	4	-
-	5	-			2,500			7,200	-	6	-
PANEL B	7	225/3	9,500			7,200			125/3	8	CU-2
-	9	-		9,500			7,200		-	10	-
-	11	-			7,000			7,200	-	12	-
PANEL M	13	225/3	8,800			4,000			45/3	14	AHU-1
-	15	-		8,800			4,000		-	16	-
-	17	-			8,800			4,000	-	18	-
PANEL C	19	225/3	7,500			25,000			350/3	20	CHP
-	21	-		7,500			25,000		-	22	-
-	23	-			5,000			25,000	-	24	-
PANEL P	25	225/3							100/3	26	SPARE
-	27	-							-	28	-
-	29	-							-	30	-
PANEL P-1	31	225/3							100/3	32	SPARE
-	33	-							-	34	-
-	35	-							-	36	-
PANEL P-2	37	225/3							60/3	38	SPD
-	39	-							-	40	-
-	41	-							-	42	-
CONNECTED LIGHTS			10,000	10,000			20,000				
CONNECTED RECEPTS			14,500	14,500	14,500		43,500				
CONNECTED HVAC BLOWERS			8,800	8,800	8,800		26,400				
CONNECTED HVAC A/C			18,400	18,400	18,400		55,200				
CONNECTED HVAC HTG											
CONNECTED HVAC			27,200	27,200	27,200		81,600				
CONNECTED MISC			25,000	25,000	25,000		75,000				
TOTAL PHASES			76,700	76,700	66,700		220,100				
TOTAL PANEL			76,700	76,700	66,700		220,100				
PANEL MCA							580				

NOTES:

PANELBOARD: PANEL CHP — **PANEL SOURCE:**

BUS AMPACTY 400A | VOLTS 120/208 | BRANCH BRKR POLES 42 | PHASE 3 | MLO AMPS | WIRES 4 | MCB A/P | SURFACE | RECESSED | A/C | FEED THRU LUGS | LOAD FED | LARGEST MOTOR FLA

LOAD TO BE FED	CCT #	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 #	LOAD TO BE FED
B105 RECEPT	1	20/1								2	B104 RECEPT
B106 RECEPT	3	20/1								4	B104 RECEPT
B107/DESK RECPET	5	20/1								6	B104 RECEPT
B108 RECEPT	7	20/1								8	B102 RECEPT
B108 RECEPT	9	20/1								10	B110 RECPET
	11	20/1								12	B111B RECEPT
B114 RECEPT	13	20/1								14	B111B RECEPT
B114 RECEPT	15	20/1								16	B111B RECEPT
B114 HAND DRYER	17	20/3								18	B111B/HALWAY RECEPT
SPARE	19	-								20	B115 RECEPT
SPARE	21	-								22	B115 HAND DRYER
SPARE	23	20/3								24	B115 RECEPT
SPARE	25	-								26	
SPARE	27	-								28	
SPARE	29	45/3								30	
SPARE	31	-								32	
SPARE	33	-								34	EXTERIOR LIGHTS
SPARE	35									36	EM LIGHTING
EF-3	37									38	EM LIGHTING
EF-2	39									40	EM LIGHTING
EF-1	41									42	EXIT LIGHTS
CONNECTED LIGHTS											
CONNECTED RECEPTS											
CONNECTED HVAC BLOWERS											
CONNECTED HVAC A/C											
CONNECTED HVAC HTG											
CONNECTED HVAC											
CONNECTED MISC											
TOTAL PHASES											
TOTAL PANEL											
PANEL MCA											

NOTES:

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.5600 | F: 715.832.5658 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 6TH AVE.
FORT MC COY, WI 54656

ELECTRICAL SCHEDULES

Designed by: PCC | Drawn by: BBL | Checked by: PCC | Reviewed by: | Date: 09/15/21 | Rev.: | Work Order No 1186 | Submitted by: DPW | Project Number ES 12003-2J

SHEET NUMBER: **E5.0**

SHEET 98 of 116

Plot date:

PANELBOARD: PANEL P — **PANEL SOURCE:**

BUS AMPACITY 225A | VOLTS 120/208
BRANCH BRKR POLES 42 | PHASE 3 | FEED THRU LUGS
MLO AMPS | WIRES 4 | LOAD FED
MCB A/P | SURFACE
RECESSED
A/C | LARGEST MOTOR FLA

LOAD TO BE FED	CCT #	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 #	LOAD TO BE FED
UV CONTROL BOX	1	30/2							100/3	2	RECIRCULATION PUMP
-	3	-							-	4	-
DISINFRECTANT SYSTEM	5	20/1							-	6	-
PH ADJUSTMENT SYSTEM	7	20/1								8	
CHEMICAL CONTROLLER	9	20/1								10	
AIR COMPRESSOR	11	20/1								12	
REGENERATIVE FILTER	13	20/1								14	
	15									16	
	17									18	
	19									20	
	21									22	
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	

CONNECTED LIGHTS						
CONNECTED RECEPTS						
CONNECTED HVAC BLOWERS						
CONNECTED HVAC A/C						
CONNECTED HVAC HTG						
CONNECTED HVAC						
CONNECTED MISC						
TOTAL PHASES						
TOTAL PANEL						
PANEL MCA						

NOTES:

PANELBOARD: PANEL P-1 — **PANEL SOURCE:**

BUS AMPACITY 225A | VOLTS 120/208
BRANCH BRKR POLES 42 | PHASE 3 | FEED THRU LUGS
MLO AMPS | WIRES 4 | LOAD FED
MCB A/P | SURFACE
RECESSED
A/C | LARGEST MOTOR FLA

LOAD TO BE FED	CCT #	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 #	LOAD TO BE FED
HOT TUBE	1	20/1							20/1	2	SPARE
POOL RECEPT	3	20/1							20/1	4	SPARE
POOL RECEPT	5	20/1							20/1	6	SPARE
POOL RECEPT	7	20/1							20/1	8	SPARE
EXTERIOR RECEPT	9	20/1							20/1	10	SPARE
STORAGE/POOL EQUIPMENT RECEPT	11	20/1							20/1	12	SPARE
SP-1	13	20/1							20/1	14	SPARE
SP-2	15	20/1							20/1	16	SPARE
SPARE	17	20/1							20/1	18	SPARE
SPARE	19	20/1							20/1	20	SPARE
SPARE	21	20/1							20/1	22	SPARE
SPARE	23	20/1							20/1	24	SPARE
SPARE	25	20/1							20/1	26	SPARE
SPARE	27	20/1							20/1	28	SPARE
SPARE	29	20/1							20/1	30	SPARE
SPARE	31	20/1							20/1	32	SPARE
SPARE	33	20/1							20/1	34	SPARE
SPARE	35	20/1							20/1	36	SPARE
SPARE	37	20/1							20/1	38	SPARE
SPARE	39	20/1							20/1	40	POOL LIGHTING
SPARE	41	20/1							20/1	42	POOL LIGHTING

CONNECTED LIGHTS						
CONNECTED RECEPTS						
CONNECTED HVAC BLOWERS						
CONNECTED HVAC A/C						
CONNECTED HVAC HTG						
CONNECTED HVAC						
CONNECTED MISC						
TOTAL PHASES						
TOTAL PANEL						
PANEL MCA						

NOTES:

PANELBOARD: PANEL M-1 — **PANEL SOURCE:**

BUS AMPACITY 225A | VOLTS 120/208
BRANCH BRKR POLES 42 | PHASE 3 | FEED THRU LUGS
MLO AMPS | WIRES 4 | LOAD FED
MCB A/P | SURFACE
RECESSED
A/C | LARGEST MOTOR FLA

LOAD TO BE FED	CCT #	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 #	LOAD TO BE FED
SCISSCOR LIFT	1	20/1							20/1	2	EXTERIOR LIGHTS
B122 RECEPT	3	20/1							20/1	4	EXTERIOR LIGHTS
B122 RECEPT	5	20/1							20/1	6	EXTERIOR LIGHTS
EXTERIOR RECEPT	7	20/1							20/1	8	CP-1
WASHER	9	20/1							20/1	10	MAU1
DRYER	11	30/2							20/1	12	SPARE
-	13	-							20/1	14	SPARE
MECH RM RECEPT	15	20/1							20/1	16	SPARE
SPARE	17	20/1							20/1	18	SPARE
SPARE	19	20/1							20/1	20	SPARE
RF-1	21	35/3							20/1	22	SPARE
-	23	-							20/1	24	SPARE
-	25	-							20/1	26	SPARE
SPARE	27	20/1							20/1	28	SPARE
SPARE	29	20/1							20/1	30	SPARE
SPARE	31	20/1							20/1	32	SPARE
SPARE	33	20/1							20/1	34	SPARE
SPARE	35	20/1							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

CONNECTED LIGHTS						
CONNECTED RECEPTS						
CONNECTED HVAC BLOWERS						
CONNECTED HVAC A/C						
CONNECTED HVAC HTG						
CONNECTED HVAC						
CONNECTED MISC						
TOTAL PHASES						
TOTAL PANEL						
PANEL MCA						

NOTES:

PANELBOARD: PANEL C-1 — **PANEL SOURCE:**

BUS AMPACITY 225A | VOLTS 120/208
BRANCH BRKR POLES 42 | PHASE 3 | FEED THRU LUGS
MLO AMPS | WIRES 4 | LOAD FED
MCB A/P | SURFACE
RECESSED
A/C | LARGEST MOTOR FLA

LOAD TO BE FED	CCT #	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 #	LOAD TO BE FED
B105 RECEPT	1	20/1							20/1	2	B104 RECEPT
B106 RECEPT	3	20/1							20/1	4	B104 RECEPT
B107/DESK RECPET	5	20/1							20/1	6	B104 RECEPT
B108 RECEPT	7	20/1							20/1	8	B102 RECEPT
B108 RECEPT	9	20/1							20/1	10	B110 RECPET
	11	20/1							20/1	12	B111B RECEPT
B114 RECEPT	13	20/1							20/1	14	B111B RECEPT
B114 RECEPT	15	20/1							20/1	16	B111B RECEPT
B114 HAND DRYER	17	20/1							20/1	18	B111B/HALWAY RECEPT
SPARE	19	20/1							20/1	20	B115 RECEPT
SPARE	21	20/1							20/1	22	B115 HAND DRYER
SPARE	23	20/1							20/1	24	B115 RECEPT
SPARE	25	20/1							20/1	26	SPARE
SPARE	27	20/1							20/1	28	SPARE
SPARE	29	20/1							20/1	30	SPARE
SPARE	31	20/1							20/1	32	SPARE
SPARE	33	20/1							20/1	34	SPARE
SPARE	35	20/1							20/1	36	SPARE
EF-3	37	20/1							20/1	38	BATHROOM LIGHTING
EF-2	39	20/1							20/1	40	OFFICE LIGHTING
EF-1	41	20/1							20/1	42	OFFICE LIGHTING

CONNECTED LIGHTS						
CONNECTED RECEPTS						
CONNECTED HVAC BLOWERS						
CONNECTED HVAC A/C						
CONNECTED HVAC HTG						
CONNECTED HVAC						
CONNECTED MISC						
TOTAL PHASES						
TOTAL PANEL						
PANEL MCA						

NOTES:

PANELBOARD: PANEL A — **PANEL SOURCE:**

BUS AMPACITY 225A | VOLTS 120/208
BRANCH BRKR POLES 42 | PHASE 3 | FEED THRU LUGS
MLO AMPS | WIRES 4 | LOAD FED
MCB A/P | SURFACE
RECESSED
A/C | LARGEST MOTOR FLA

LOAD TO BE FED	CCT #	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 #	LOAD TO BE FED
BACKSTOP LIFT	1	20/2							20/2	2	BACKSTOP LIFT
-	3	-							-	4	-
C100 RECEPT	5	20/1							20/1	6	C100 RECEPT
SCOREBOARD	7	20/1							20/2	8	BACKSTOP LIFT
CURTAIN CONTROLLER	9	20/1							-	10	-
CURTAIN CONTROLLER	11	20/1							20/2	12	BACKSTOP LIFT
CURTAIN CONTROLLER	13	20/1							-	14	-
BACKSTOP LIFT	15	20/1							20/2	16	BACKSTOP LIFT
BACKSTOP LIFT	17	20/2							-	18	-
-	19	-							20/1	20	SPARE
C100 RECEPT	21	20/1							20/1	22	SPARE
C100 RECEPT	23	20/1							20/1	24	SPARE
SCOREBOARD	25	20/1							20/1	26	SPARE
SPARE	27	20/1							20/1	28	SPARE
SPARE	29	20/1							20/1	30	GYM LIGHTING
SPARE	31	20/1							20/1	32	GYM LIGHTING
SPARE	33	20/1							20/1	34	GYM LIGHTING
SPARE	35	20/1							20/1	36	GYM LIGHTING
SPARE	37	20/1							20/1	38	GYM LIGHTING
SPARE	39	20/1							20/1	40	GYM LIGHTING
SPARE	41	20/1							20/1	42	GYM LIGHTING

CONNECTED LIGHTS						
CONNECTED RECEPTS						
CONNECTED HVAC BLOWERS						
CONNECTED HVAC A/C						
CONNECTED HVAC HTG						
CONNECTED HVAC						
CONNECTED MISC						
TOTAL PHASES						
TOTAL PANEL						
PANEL MCA						

NOTES:

MEP ASSOCIATES, LLC
engineers | consultants | commissioning
2720 Arbor Court | Eau Claire, WI 54701
P: 715.832.9680 | F: 715.832.5688 | mepassociates.com

MEP PROJECT NO.: S01.17.02

DPW
FORT MCCOY, WI

MOD #	DATE	MOD REQUEST # - DESCRIPTION	MARK

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MCC-CGFI, WI 54656

ELECTRICAL
PANEL SCHEDULES

Designed by: PCC | Drwn by: BBL | Ckd by: PCC | Reviewed by: | Submitted by: DPW
Date: 08/15/21 | Rev. | Work Order No 1166 | Project Number ES 120003-2J

SHEET NUMBER:
E5.1
SHEET 99 of 116

Plot date:

POOL CONSTRUCTION REQUIREMENTS

1. All pool finish surfaces shall be white or light in color with contrasting accent striping per code requirements. All non-code markings must be contrasting to both the finish color and code required accents.
2. All ledges and slope increases shall be marked per code requirements. Slope marks shall extend up the pool walls.
3. All walls/floors/corners or other inside angles (acute or less than 180° as measured from surface to surface) of the pool must have a min. 1/2" radius.
4. All pool finish surfaces must be smooth and void of cracks.
5. Pool finish is to be 1" ceramic tile.

GENERAL

1. The systems shown on these documents have been designed for the final, in place usage of the aquatic amenities on the intended occupancy and code requirements. While general constructability has been considered, the systems have not been designed to accomodate specific construction means and methods that might be utilized by the contractor.
2. The Contractor shall field verify all existing dimensions prior to fabrication.
3. The Contractor shall notify the C.O.R. of any observed discrepancies in dimensions, detailing, or other items as shown on the plans or specified prior to proceeding with work relating to said discrepancies.
4. The Contractor shall not alter or modify work shown on the drawings without receiving written approval from the C.O.R.
5. The Contractor shall be responsible for supplying shop drawings, submittals and mix designs. All submittals must be reviewed for conformance with the means, methods, techniques, sequences, and operations of construction, and safety precautions and programs incidental thereto, all of which are the sole responsibility of the Contractor.

COORDINATION NOTES BY DISCIPLINE
GC / PRIME TO COORDINATE

1. General Coordination
   - A. Verify all electrical requirements w/ Electrical Contractor.
   - B. Piping from pool heater/heat exchanger shall be CPVC piping.
   - C. Equipment and piping shown for schematic purposes only.
   - D. Valves shall be numbered and labeled.
   - E. Pipes shall be labeled w/ the flow direction shown.
   - F. Equipment listed is for quality and specification purposes; see specifcations for approved equal products.
   - G. Calculations are per equipment listed; equipment substitutions require verifcation of properties and calculations.
   - H. Chemical injection points to be located as low in equipment room as possible.

2. Pool Contractor shall supply and/or be responsible for:
   - A. Coordinate and check all dimensions relating to architectural finishes, structural framing, mechanical openings, equipment, etc. The C.O.R. shall be notified of any discrepancies before proceeding with work in an area under question.
   - B. Verify all available utilities are compatible with equipment before ordering.
   - C. Setting all mechanical room equipment i.e. pumps, VFD, etc. unless otherwise specificed.
   - D. Locating equipment and piping in the field.

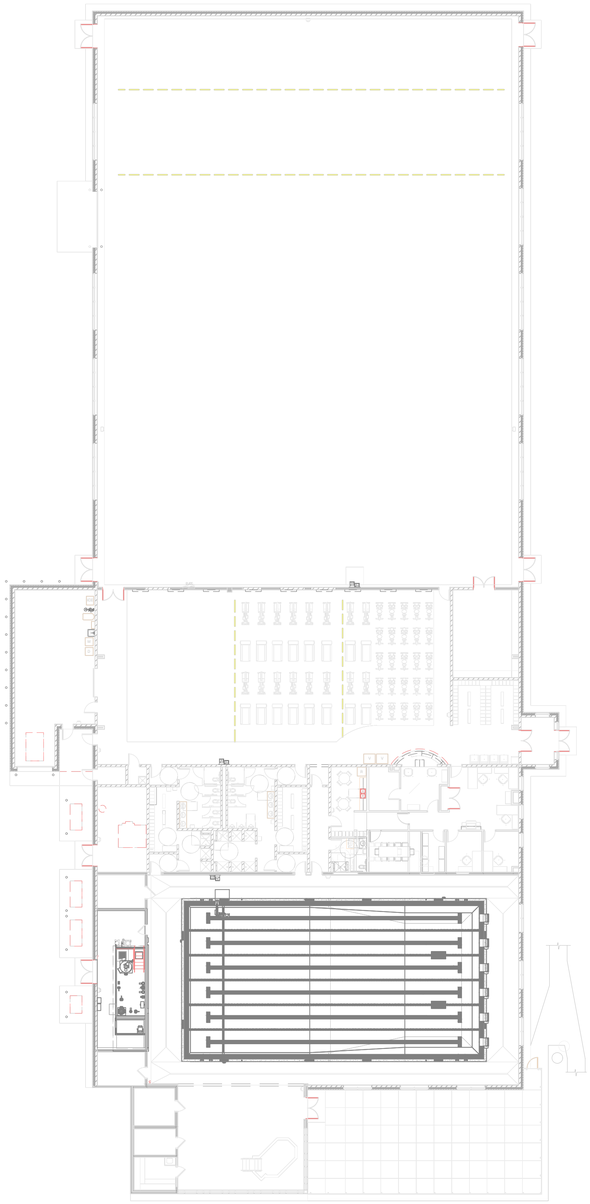
3. Plumbing Contractor shall supply and/or be responsible for:
   - A. Floor drains required in the pool mechanical room.
   - B. Hose bibs required in equipment room and pool enclousre for convenient service of the pool area with a maximum 50'-0" hose.
   - C. Drain for filter backwash/drain, to be coordinated with Pool Contractor
   - D. Water supply for pool fill protected by RPZ or 6" air gap; located in mechanical room.
   - E. Indirect connection of race line storage tanks to waste piping.
   - F. Sewer connection for pool underdrain system, if provided.
   - G. Indirect connection of deck drainage to waste piping. Coordinate drain location with Aquatics and Architectural.

4. Mechanical Contractor shall supply and/or be responsible for:
   - A. Heat exhcange unit and heat side piping/controls; pool contractor to provide thermowell for sensor (by mechanical) in bypass for call to heat; coordinate piping/controls.
   - B. Equipment room, chemical closet, and pool enclosure ventilation, heat, cooling, dehumidification
   - C. Passive venting for surge tanks; provide 4' vent to atmosphere.

5. Electrical Contractor shall supply and/or be responsible for:
   - A. Providing electrical service and interconnections.
   - B. Verify equipment location and electrical requirements; Pool Contractor is not responsible for electrical connections/controls.
   - C. Electrical wiring to pumps, including breakers and starters; starters supplied by electrical.
   - D. Coordinate and connect VFD equipment supplied by Pool Contractor.
   - E. All wiring shall conform to all applicable national, state, and local electrical codes.
   - F. All conductors for pump power or control shall be THHN/THWN stranded copper unless otherwise stated.
   - G. Use only rigid conduit SCH. 40 PVC; run one individual conduit per motor; minimum cover underground is 6".
   - H. All flexible conduit w/in the pool mechanical area shall be liquid tight and non-metallic
   - I. Electrical wiring/interconnections to controllers and feed pumps.
   - J. Coodinate outlet locations; no outlets are to be installed below possible drip points (i.e. sample ports).
   - K. Where spas are located, electrical wiring to, and supply of spa timer and spa emergency shutoff switches.
   - L. Electrical wiring and conduit to pool and spa lights where provided by the pool contractor.
   - M. Coordinate interconnections between pumps, VFD's, filter controls, chemical controllers, feet pumps, etc. w/ pool contractor.
   - N. Where flume slides are located, electrical wiring to and supply of emergency shutoff controls.
   - O. Refer to mechanical schematics for summary of interconnections. Coordinate interconnections with pool contractor.

DESIGNER SITE OBSERVATIONS:

1. The contract drawings & specifications represent the finished product, and, except where specifically shown, do not indicate the method or means of construction. The contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, preocedures, techniques, and sequence.
2. The C.O.R. shall not have control nor charge of and shall not be responsible for, construction means, methods, techniques, sequences, or procedures, for safety precautions & programs in connection with the work, for the acts or omission of the contractor, subcontractor, or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents.
3. Periodic site observation by field representatives of the C.O.R. is solely for the purpose of determining if the work of the contractor is proceeding in general accordance with the structural contract documents. This limited site observation should not be construed as exhaustive or continuous to check the quality or quantity of work, but rather periodic in an effort to guard the client against defects or deficiencies in the work of the contractor.



OVERALL SITE PLAN | 01
3/64" = 1'-0" | AQ0.1

SHEET LIST

SHEET #	SHEET NAME
AQ0.1	GENERAL NOTES / TITLE SHEET
AQ0.2	GENERAL LEGENDS / SCHEDULES
AQ1.1	AQUATIC SITE PLAN
AQA1.1	ARCHITECTURAL PLAN
AQA3.1	ELEVATIONS - ARCHITECTURAL
AQA5.1	TYPICAL DETAILS - ARCHITECTURAL
AQA9.1	ISOMETRICS - ARCHITECTURAL
AQE1.1	ELECTRICAL BONDING PLAN
AQM1.1	FIELD PLUMBING PLAN
AQM1.2	MECHANICAL ROOM PLAN
AQM2.1	ELEVATIONS - MECHANICAL
AQM5.1	TYPICAL DETAILS - MECHANICAL
AQM9.1	ISOMETRICS - MECHANICAL ROOM
AQS1.1	STRUCTURAL PLAN
AQS3.1	SECTIONS - STRUCTURAL
AQS5.1	TYPICAL DETAILS - STRUCTURAL
AQS5.3	TYPICAL DETAILS - STRUCTURAL - MISC

NOTES TO THE OWNER

1. OBSERVE ALL OPERATIONAL RESTRICTIONS AS NOTED IN PLANS & SPECIFICAITONS.
2. VERIFY MAX POOL DRAIN RATE @ WASTE FUNNEL/RECEPTICAL LOCATION & OPERATE ACCORDINGLY.

USAQUATICS
AQUATIC CONSULTING & DESIGN
124 Bridge Ave. E· PO Box 86 · Delano, MN 55328
Phone (763) 972-5897 · Fax (763) 972-5864
www.usaquaticsinc.com

JOB NO: FtM20D000

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: USAQUATICS, INC.	Date: 08/15/21
Drawn by: MAB	Ckd by:
Reviewed by: RTS	Rev.
Submitted by: DPW	Work Order No 1188
	Project Number ES9 182002.03

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MCCOY, WI 54656

GENERAL NOTES - TITLE SHEET

SHEET NUMBER:
AQ0.1
SHEET 100 of 116

Plot date:

LAP POOL DATA

CATEGORY	PARAMETER	DESCRIPTION
GEOMETRY	TYPE	25 YARD / 6 LANE POOL
	SIZE	42'-0" x 75'-0"
	AREA	3,445 SF
	DEPTH	3'-6" TO 12'-0"
	PERIMETER	248 FT
	VOLUME	136,376 GAL
TURNOVER	TURNOVER RATE (CODE)	6.00 HRS
	FLOW RATE (CODE)	379 GPM
	TURNOVER RATE (DESIGN)	5.05 HRS
	FLOW RATE (DESIGN)	450 GPM
	TOTAL DYNAMIC HEAD (DESIGN)	75 FT
SKIMMING	SURFACE SKIMMING	PERIMETER GUTTER
	SURGE CAPACITY (REQUIRED)	3,445 GAL
	SURGE CAPACITY (AVAILABLE)	5,312 GAL
	GUTTER DROPOUT QTY.	2
	GUTTER RETURN QTY.	2
RECIRCULATION	SUMP QTY.	2
	SUMP OPEN AREA (EACH)	2.96 SF
	SUMP RATED FLOW (EACH)	1,996 GPM
	PUMP SIZE	20 HP
	PUMP MAX. FLOW @ DESIGN TDH	1,750 GPM
	PUMP MAX. CAPABILITY	1,000 GPM
FILTRATION	FILTER TYPE	REGENERATIVE MEDIA
	FILTER AREA (EACH)	519.4 SF
	FILTER QTY.	1
	FILTER MEDIA RATE	0.87 GPM/SF
	BACKWASH/DRAIN FLOW RATE	N/A
	TOTAL BACKWASH/DRAIN VOLUME	291 GAL
CAPACITY	BATHER LOAD (CODE)	174
	BATHER LOAD (POSTED)	174
	LIFEGUARD REQ.	2
	ELEVATED CHAIR REQ.	2
SANITATION	DISINFECTANT	CALCIUM HYPOCHLORITE
	PH CONTROL	SODIUM BISULFATE
	UV PRESENT?	YES
	CO: CONTACT TIME	N/A

MASTER EQUIPMENT SCHEDULE

MARK	QTY.	MFR.	MODEL	DESCRIPTION
154-3	4	Inlays, Inc.	C621030	"3" Depth Marker, NO Series, Skid Resistant, 6'x6" Ceramic Tile, 4" Font
154-5	2	Inlays, Inc.	C621050	"5" Depth Marker, NO Series, Skid Resistant, 6'x6" Ceramic Tile, 4" Font
154-6	10	Inlays, Inc.	C621060	"6" Depth Marker, NO Series, Skid Resistant, 6'x6" Ceramic Tile, 4" Font
154-8	4	Inlays, Inc.	C621080	"8" Depth Marker, NO Series, Smooth, 6'x6" Ceramic Tile, 4" Font
154-FT	12	Inlays, Inc.	C623500	"FT" Depth Marker, AB Series, Skid Resistant, 6'x6" Ceramic Tile, 4" Font
154-IN	12	Inlays, Inc.	C623505	"IN" Depth Marker, AB Series, Skid Resistant, 6'x6" Ceramic Tile, 4" Font
154-ND	12	Inlays, Inc.	C621522	"NO DIVING" Depth Marker, MG Series, Skid Resistant, 6'x6" Ceramic Tile, 2" Font
171	14	Spectrum	23452-00	Recessed Step
202	35	Spears		Elbow - PVC - Sch 40
203	6	Spears		Tee - PVC - Sch 40
204	8	Spears		Coupling Reducing - PVC - Sch 40
206-6	3	---	---	Flange, 6"
211	2	Paddock	2448ESMD-FC	Stainless Steel Sump Drain and Cover, VGB Compliant, 24"x48"x30", 12" INF/EFF Conn., Open Area = 425.78 in² , Floor Capacity = 3,500 GPM
241	1	Paddock	R-300GT	S.S. Perimeter Recirculation System
311	4	Spectrum	Custom	Grab rails (pair), California Style, 30" Tall, Verify Anchor Setback, 1.90"x.109", 316L S.S.
315	4	Spectrum Aquatics	134034-96-.109	Backstroke Stanchion, 8'-0" Tall, 1.90"x.109", 316L, Include All Necessary Install Hardware
316	2	Spectrum Aquatics	134034-54-.109	Recall/False Start Stanchion, 4'-6" Tall, 1.90"x.109", 316L, Include All Necessary Install Hardware
412	1			House Keeping Pad
412	1	Speck	125/250	BADU Block Multi Series, Vertical Pump w/ Integrated Plastic Strainer Tank & Spare Basket, TEFC, 20 HP, 480 V, 3 Phase, 8" INF. Conn., 5" EFF. Conn.
416	1	Neptune-Benson	- - -	GreenDrive Variable Frequency Drive, 20 HP, 480 V, 3 Phase, NEMA 12 (IP55)
421	1	Trerice	700LFSS (Gauge) 865 MFG (G. Cock) 872-2 (Snubber)	Pressure Gauge w/ Brass Gauge Cock & Snubber, 2-1/2" Dial
422	1	Trerice	700LFSS (Gauge) 865 MFG (G. Cock) 872-2 (Snubber)	Vacuum Gauge w/ Brass Gauge Cock & Snubber, 2-1/2" Dial
438-1	1	Axiall	Acid-Rite 450	Sodium Bisulfate pH Adjustment System, 120 V, 1 Phase, 20 A, 1" INF/EFF Conn.
438-2	1	Axiall	Powerbase 3070AT	Calcium Hypochlorite Chlorination System, 120 V, 1 Phase, 20 A, 1-1/2" INF/EFF Conn.
441	1	BECS Technology	BECSys5	Water Chemistry Controller w/ IT Connectivity, 120 V, 1 Phase, 12.25 A
442	1	H2flow Controls	FV-4	FlowVis Flow Meter, 160-330 GPM, 4" INF/EFF Conn.
446	1	GF Signet	9900	Signal Transmitter, DC Power (Per MFR)
447	1	Ingersoll Rand	P1.5IU-A9	Air Compressor, 2 HP, 120 V, 1 Phase, 15 A, 20 Gal.
453	1	Neptune-Benson	SP-33-48-732	Defender Regenerative Media Filter, 120 V, 1 Phase, 20 A, 8" INF/EFF Conn., 3" Drain Conn., 3/4" Air Bleed Conn., Operating Wt. = 3,880 lbs
461	1	Neptune-Benson	WF-215-6	Wafer UV Disinfection Chamber w/ EZ Manual Strainer, 6" INF/EFF Conn., Medium Pressure, (2) 1.5 kW Lamps
462	1	Neptune Benson	WF-215-6	Wafer UV Disinfection Control Box, 240 V, 1 Phase, 30 A
485	1	Mercoid	DA-7031-153	Series DA/DS-7000 Pressure Switch, Brass Bourdon Tube, 0-30" Hg Vacuum
501	1	RecSupply	DD5050A08	Cal-June Life Ring Cabinet w/ 24" White Ring Buoy, Buoy Hanger, and 60' Throw Line
502	1	Pentair	153	Rainbow Safety Pool Hook, Aluminum
503	1	RecSupply	DD36050	Exotube Rescue Tube, 40"
504	1	Pentair	808-12	Rainbow 1-Piece Straight Pole, Fiberglass, 12'-0" w/ Pole Cap
506	1	RecSupply	47-020	CJ Rescue 6 Spineboard, Package
507-1	1	RecSupply	DD1027850	Chemical Safety Gloves, Neoprene Coated
507-2	1	RecSupply	DD0038750	Heavy Duty Chemical Apron, 33'x49', 18 mil
507-3	1	RecSupply	DD1511750	Heavy Duty Chemical Safety Goggles
508-1	1	RecSupply	DD2703250	Eyesaline Emergency Eyewash Station, 32 oz Bottle
508-2	1	RecSupply	DP2603750	Eyesaline Emergency Eyewash Station Refill, 32 oz Bottle
509	1	RecSupply	DD1070650	Kemp First Aid Kit, 36 Unit
511	1	---	Per Code	State Compliant Signage, Pool Rules
512	1	---	Per Code	State Compliant Signage, Lifeguard
517	1	---	Per Code	State Compliant Signage, Equipment
518	1	---	Per Code	State Compliant Signage, Capacity
519	1	---	Per Code	State Compliant Signage, Chemical
621	6	S.R. Smith	VELOSM-TS-TA	Starting Platform, Track Start, Side Mount, Include All Necessary Install Hardware
631	5	Spectrum Aquatics	55855-00	Anti-Wave Racing Lines, 75'-1" Length, 6" Diameter Float, Anchorage Per Gutter Manufacturer
711	1	SR SMITH	MULTILIFT	ADA 2009.2 COMPLIANT LIFT
901	1	RecSupply	BB2006C01	Taylor Service Complete FAS-DPD Test Kit, Chlorine, K-2006C
911-1	1	RecSupply	CC301050	A&B Curved Wall Brush, 18", Model 3010
911-2	1	RecSupply	CC503050	A&B Brush Straight Algae Brush, 18", Model 5030
912	1	A&B Brush Mfg. Corp.	Power Stroke Waterfoil	Brush Stabilizer
913-1	1	Pentair	808-12	Rainbow 1-Piece Straight Pole, Fiberglass, 12'-0" w/ Pole Cap
913-2	1	Pentair	812-16	Rainbow 2-Piece Telescopic Pole, Aluminum, 8'-0" to 15'-6"
917-1	1	RecSupply	CC22204	Rainbow Provac Flexible Commercial Vacuum Head, 22"
917-2	1	RecSupply	CC1171515	Havillex I-Helix Commercial Vacuum Hose, 1.5" x 50'
918	1	Recreonics	10-189	Indestructible Squeegee, 5' Pole, 36" Blade,

PLUMBING / WIRING SCHEMATIC LEGEND

MFR.	MODEL/SIZE	MFR.	MODEL/SIZE	MFR.	MODEL/SIZE
	BALL VALVE		FLOAT VALVE		PUMP
	BUTTERFLY VALVE	FM	FLOW METER	SG	SIGHT GLASS
A	BUTTERFLY VALVE, AIR OPERATED	N.C.	NORMALLY CLOSED	S	SOLENOID VALVE
	BYPASS PLUMBING / LOW VOLTAGE CONN.	N.O.	NORMALLY OPEN	S	STRAINER
	CHECK VALVE	N.T.	NORMALLY THROTTLED	T	THERMOMETER
	DIVERTER VALVE	P	PRESSURE GAUGE	UV	UV CHAMBER
	FLANGE BREAK		PRIMARY PLUMBING / HIGH VOLTAGE CONN.	V	VACUUM GAUGE

ABBREVIATIONS LEGEND

&	AND	GAL.	GALLON
@	AT	GALV.	GALVANIZED
°	DEGREES	G.C.	GENERAL CONTRACTOR
=	EQUALS	GPM	GALLONS PER MINUTE
'	FEET	HORIZ.	HORIZONTAL
>	GREATER THAN	HP	HORSEPOWER
≥	GREATER THAN OR EQUAL TO	HRS	HOURS
"	INCHES	IN	INCHES
<	LESS THAN	INF.	INFLUENT
≤	LESS THAN OR EQUAL TO	ISO.	ISOLATION
-	MINUS, NEGATIVE	JT.	JOINT
+	PLUS	LB.	POUND
±	PLUS OR MINUS	L.F.	LINEAR FEET
A	AMPERES	LLH	LONG LEG HORIZONTAL
ADA	AMERICANS WITH DISABILITIES ACT	LLV	LONG LEG VERTICAL
A.F.F.	ABOVE FINISHED FLOOR	MAX.	MAXIMUM
ALT.	ALTERNATE	M.E.P.	MECHANICAL/ELECTRICAL/PLUMBING
ALUM.	ALUMINUM	MIN.	MINIMUM
ARCH.	ARCHITECT	MISC.	MISCELLANEOUS
BLDG.	BUILDING	N.A.	NOT APPLICABLE
B.O.S.	BOTTOM OF STEEL	NFPA	NATIONAL FIRE PROTECTION ADMINISTRATION
BOTT.	BOTTOM		
CHEM.	CHEMICAL	N.S.	NEAR SIDE
C.J.	CONTROL/CONSTRUCTION JOINT	N.T.S.	NOT TO SCALE
C.L.	CENTER LINE	Ø	DIAMETER
CLR.	CLEAR	PL.	PLATE
CMU	CONCRETE MASONRY UNIT	PRV	PRESSURE RELIEF VALVE
COL.	COLUMN	PSF	POUNDS PER SQUARE FOOT
CONC.	CONCRETE	PSI	POUNDS PER SQUARE INCH
CONN.	CONNECTION	PVC	POLYVINYL CHLORIDE
CONT.	CONTINUOUS	P/V/F	PIPES, VALVES, & FITTINGS
COORD.	COORDINATE	R	RADIUS
CPVC	CHLORINATED POLYVINYL CHLORIDE	REQ.	REQUIRED
CTR.	CENTER	SCH.	SCHEDULE
DIA.	DIAMETER	SF	SQUARE FEET
DN.	DOWN	SIM.	SIMILAR
DWG.	DRAWING	SPEC.	SPECIFICATION
EA.	EACH	SS	STAINLESS STEEL
EFF.	EFFLUENT	THRU.	THROUGH
E.J.	EXPANSION JOINT	T.O.C.	TOP OF CONCRETE
EL.	ELEVATION	T.O.F.	TOP OF FOOTING
ELEV.	ELEVATION	T.O.S.	TOP OF STEEL
ENG.	ENGINEER	T.O.W.	TOP OF WALL
E.O.R.	ENGINEER OF RECORD	T.U.B.C.V.	TRUE UNION BALL CHECK VALVE
EQ.	EQUAL	T.U.B.V.	TRUE UNION BALL VALVE
EQUIP.	EQUIPMENT	TYP.	TYPICAL
ETC.	ET CETERA	U.N.O.	UNLESS NOTED OTHERWISE
EXIST.	EXISTING	V	VOLTS
EXT.	EXTERIOR	VERT.	VERTICAL
F.B.E.	FOOTING BEARING ELEVATION	VGB	VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT
F.F.	FINISHED FACE		
F.F.E.	FINISHED FLOOR ELEVATION	V.I.F.	VERIFY IN FIELD
FRP	FIBER REINFORCED POLYMER	W/	WITH
F.S.	FAR SIDE	W/O	WITHOUT
FT.	FOOT/FEET	WT.	WEIGHT
FTG.	FOOTING/FOUNDATION	W.W.F.	WELDED WIRE FABRIC

USAQUATICS, INC.
AQUATIC CONSULTING & DESIGN
124 Bridge Ave. E. PO Box 86 • Delano, MN 55328
Phone (763) 972-3897 • Fax (763) 972-3864
www.usaquaticsinc.com

JOB NO: FtM20D000

DPW
FORT MCCOY, WI

MARK	DATE	MOD #

MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by:	Date:
USAQATICS, INC.	09/15/21
Drawn by:	Ckd by:
MAB	
Reviewed by:	Work Order No
RTS	1186
Submitted by:	Project Number
DPW	FS 12003-21

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SCENIC DRIVE
FORT MCCOY, WI 54656

GENERAL LEGENDS - SCHEDULES

SHEET NUMBER:
AQ0.2

SHEET 101 of 116

Plot date:

POOL SCHEDULE - CLEANING AND MAINTENANCE

MARK	QTY.	MFR.	MODEL	DESCRIPTION
901	1	RecSupply	BB2006C01	Taylor Service Complete FAS-DPD Test Kit, Chlorine, K-2006C
911-1	1	RecSupply	CC301050	A&B Curved Wall Brush, 18", Model 3010
911-2	1	RecSupply	CC503050	A&B Brush Straight Algae Brush, 18", Model 5030
912	1	A&B Brush Mfg. Corp.	Power Stroke Waterfoil	Brush Stabilizer
913-1	1	Pentair	808-12	Rainbow 1-Piece Straight Pole, Fiberglass, 12'-0" w/ Pole Cap
913-2	1	Pentair	812-16	Rainbow 2-Piece Telescopic Pole, Aluminum, 8'-0" to 15'-6"
917-1	1	RecSupply	CC22204	Rainbow Provac Flexible Commercial Vacuum Head, 22"
917-2	1	RecSupply	CC1171515	Haviflex I-Helix Commercial Vacuum Hose, 1.5" x 50'
918	1	Recreonics	10-189	Indestructible Squeegee, 5' Pole, 36" Blade,

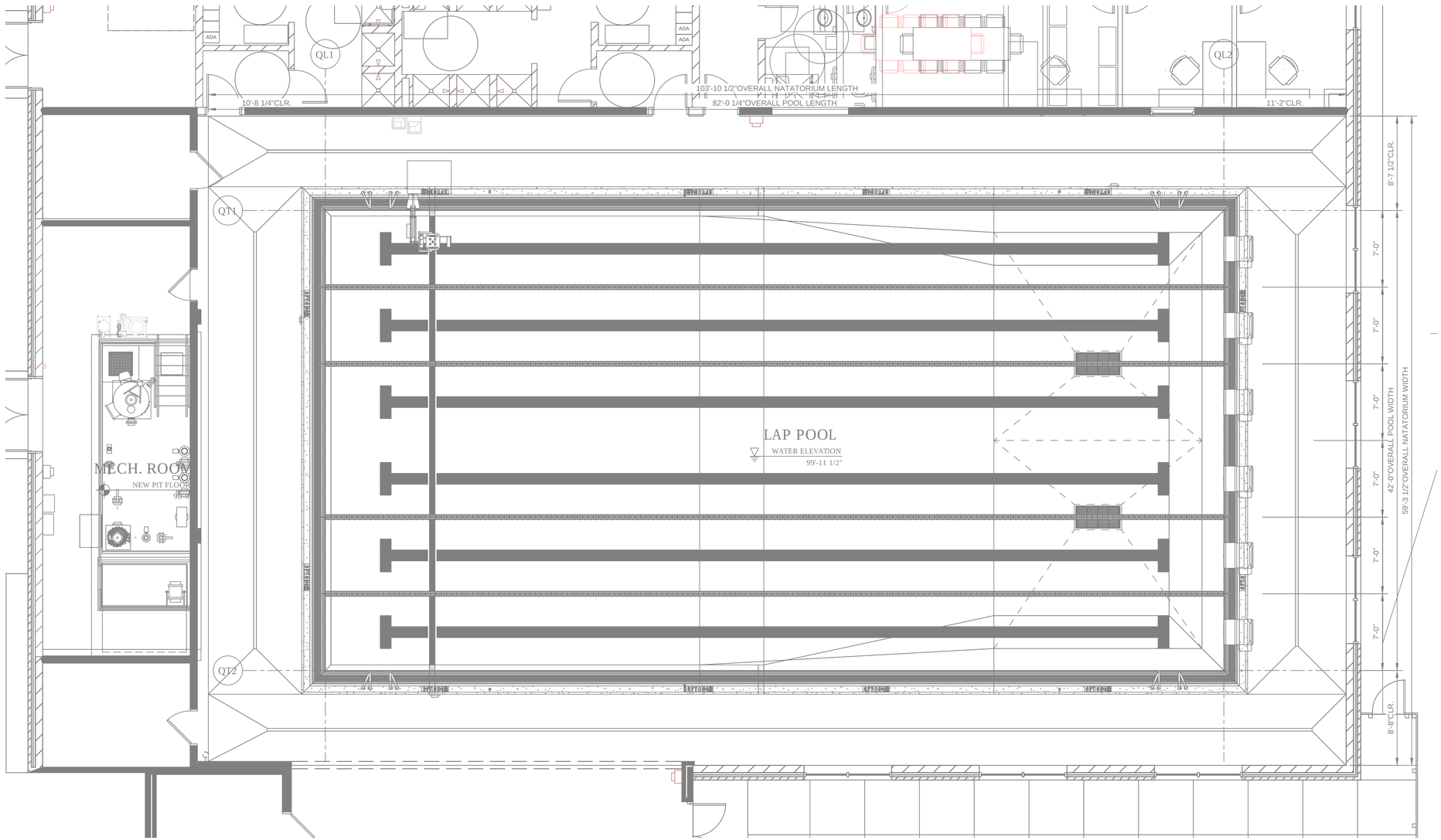
POOL SCHEDULE - HEALTH AND SAFETY

MARK	QTY.	MFR.	MODEL	DESCRIPTION
501	1	RecSupply	DD5050A08	Cal-June Life Ring Cabinet w/ 24" White Ring Buoy, Buoy Hanger, and 60' Throw Line
502	1	Pentair	153	Rainbow Safety Pool Hook, Aluminum
503	1	RecSupply	DD36050	Exotube Rescue Tube, 40"
504	1	Pentair	808-12	Rainbow 1-Piece Straight Pole, Fiberglass, 12'-0" w/ Pole Cap
506	1	RecSupply	47-020	CJ Rescue 6 Spineboard, Package
509	1	RecSupply	DD1070650	Kemp First Aid Kit, 36 Unit
511	1	---	Per Code	State Compliant Signage, Pool Rules
512	1	---	Per Code	State Compliant Signage, Lifeguard
517	1	---	Per Code	State Compliant Signage, Equipment
518	1	---	Per Code	State Compliant Signage, Capacity

AQUATIC SITE PLAN NOTES

INDICATES NOTE REFERENCED IN PLAN

1. CONTROL JOINTS MAY BE REPLACED BY CONSTRUCTION JOINTS.
2. DECK & DRAINAGE TO SLOPE AWAY FROM POOL EDGES.
3. GC / PRIME TO V.I.F. THAT ACTUAL POOL & SPA DEPTHS EXCEED DEPTH MARKERS.
4. DEPTH MARKERS TO BE PLACED IN COPING OF POOL WALLS.
5. CLEANING & SAFETY EQUIPMENT TO BE INSTALLED BY GC / PRIME & LOCATED BY OWNER.
6. SAFETY EQUIPMENT TO BE VISIBLE FROM POOL.



AQUATIC SITE PLAN | 01
3/16" = 1'-0" | AQ1.1

JOB NO: FtM20D000

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AQUATIC CONSULTING & DESIGN
124 BRIDGE AVE. E. PO BOX 86 • DELANO, MN 55328
PHONE (763) 972-5897 • FAX (763) 972-5864
WWW.USAQUATICSINC.COM

DPW
FORT MCCOY, WI

MARK	DATE	MOD #

MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: USAQUATICS, INC.	Date: 09/15/21
Drawn by: MAB	Chkd by:
Reviewed by: RTS	Rev.
Submitted by: DPW	Work Order No: 1186
	Project Number: ES-12005-23

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT McCOY, WI 54656

AQUATIC SITE PLAN

SHEET NUMBER:
AQ1.1

SHEET 102 of 116

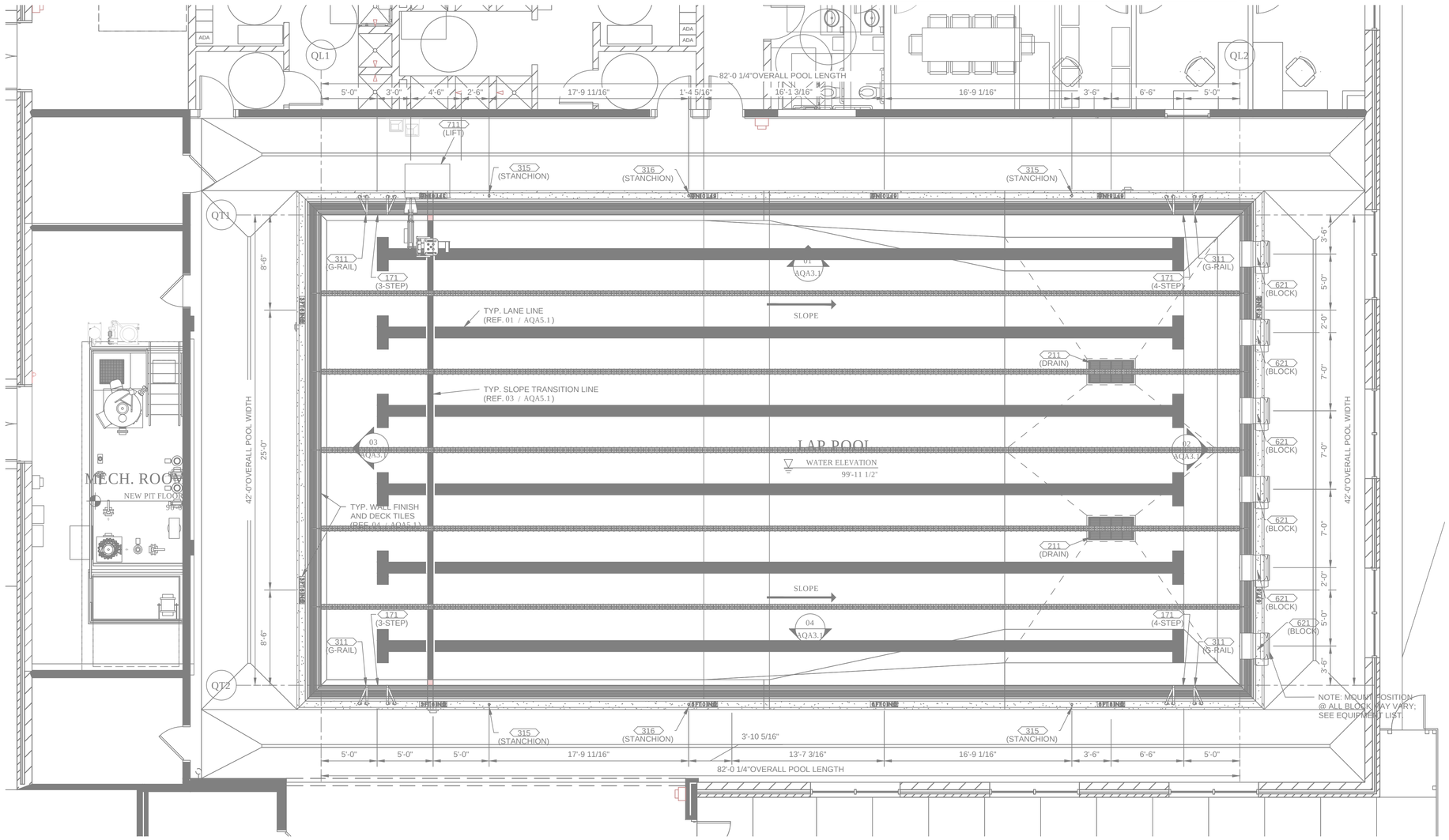
Plot Date:

POOL SCHEDULE - DECK EQUIPMENT

MARK	QTY.	MFR.	MODEL	DESCRIPTION
154-0	4	Inlays, Inc.	C621000	"0" Depth Marker, NO Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-3	4	Inlays, Inc.	C621030	"3" Depth Marker, NO Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-5	2	Inlays, Inc.	C621050	"5" Depth Marker, NO Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-6	10	Inlays, Inc.	C621060	"6" Depth Marker, NO Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-8	4	Inlays, Inc.	C621080	"8" Depth Marker, NO Series, Smooth, 6"x6" Ceramic Tile, 4" Font
154-FT	12	Inlays, Inc.	C623500	"FT" Depth Marker, AB Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-IN	12	Inlays, Inc.	C623505	"IN" Depth Marker, AB Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-ND	12	Inlays, Inc.	C621522	"NO DIVING" Depth Marker, MG Series, Skid Resistant, 6"x6" Ceramic Tile, 2" Font
311	4	Spectrum	Custom	Grab rails (pair), California Style, 30" Tall, Verify Anchor Setback, 1.90"x.109", 316L S.S.
315	4	Spectrum Aquatics	134034-96-.109	Backstroke Stanchion, 8'-0" Tall, 1.90"x.109", 316L, Include All Necessary Install Hardware
316	2	Spectrum Aquatics	134034-54-.109	Recall/False Start Stanchion, 4'-6" Tall, 1.90"x.109", 316L, Include All Necessary Install Hardware
711	1	SR SMITH	MULTILIFT	ADA 2009.2 COMPLIANT LIFT

POOL SCHEDULE - AQUATIC ACCESS EQUIPMENT

MARK	QTY.	MFR.	MODEL	DESCRIPTION	COMMENTS
711	1	SR SMITH	MULTILIFT	ADA 2009.2 COMPLIANT LIFT	Deck Equipment



DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: USAQUATICS, INC.	Date: 09/15/21
Drawn by: MAB	Rev.
Reviewed by: RTS	Work Order No 1168
Submitted by: DPW	Project Number ES 120093.23

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MCCOY, WI 54656

ARCHITECTURAL PLAN

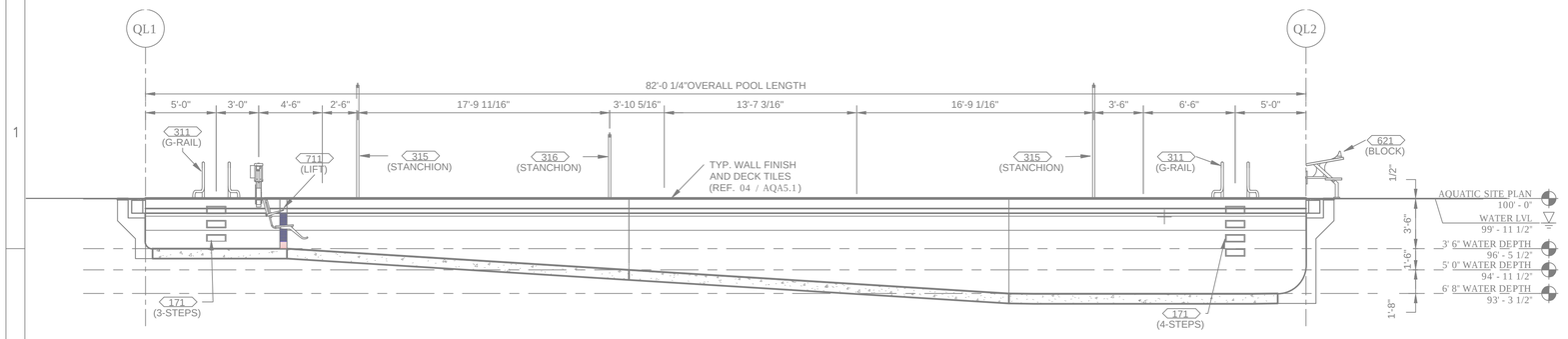
USAQUATICS
AQUATIC CONSULTING & DESIGN
124 Bridge Ave. E. PO Box 86 • Delano, MN 55328
Phone (763) 972-5897 • Fax (763) 972-5864
www.usaquaticsinc.com

ARCHITECTURAL PLAN 01
3/16" = 1'-0" AQA1.1

JOB NO: FtM20D000

SHEET NUMBER:
AQA1.1
SHEET 103 of 116

Plot date:



WEST END OF POOL

EAST END OF POOL

NORTH ELEVATION | 01

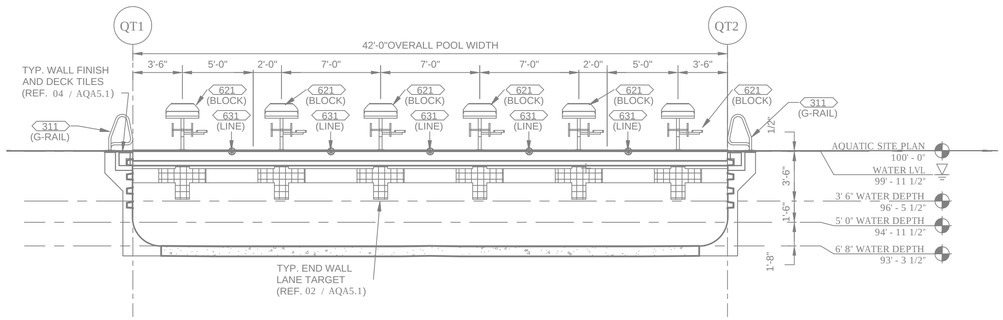
3/16" = 1'-0" | AQA3.1

POOL SCHEDULE - DECK EQUIPMENT

MARK	QTY.	MFR.	MODEL	DESCRIPTION
154-0	4	Inlays, Inc.	C621000	"0' Depth Marker, NO Series, Skid Resistant, 6'x6" Ceramic Tile, 4' Font
154-3	4	Inlays, Inc.	C621030	"3' Depth Marker, NO Series, Skid Resistant, 6'x6" Ceramic Tile, 4' Font
154-5	2	Inlays, Inc.	C621050	"5' Depth Marker, NO Series, Skid Resistant, 6'x6" Ceramic Tile, 4' Font
154-6	10	Inlays, Inc.	C621060	"6' Depth Marker, NO Series, Skid Resistant, 6'x6" Ceramic Tile, 4' Font
154-8	4	Inlays, Inc.	C621080	"8' Depth Marker, NO Series, Smooth, 6'x6" Ceramic Tile, 4" Font
154-FT	12	Inlays, Inc.	C623500	"FT" Depth Marker, AB Series, Skid Resistant, 6'x6" Ceramic Tile, 4' Font
154-IN	12	Inlays, Inc.	C623505	"IN" Depth Marker, AB Series, Skid Resistant, 6'x6" Ceramic Tile, 4' Font
154-ND	12	Inlays, Inc.	C621522	"NO DIVING" Depth Marker, MG Series, Skid Resistant, 6'x6" Ceramic Tile, 2' Font
311	4	Spectrum	Custom	Grab rails (pair), California Style, 30" Tall, Verify Anchor Setback, 1.90"x.109", 316L S.S.
315	4	Spectrum Aquatics	134034-96-.109	Backstroke Stanchion, 8'-0" Tall, 1.90"x.109", 316L, Include All Necessary Install Hardware
316	2	Spectrum Aquatics	134034-54-.109	Recall/False Start Stanchion, 4'-6" Tall, 1.90"x.109", 316L, Include All Necessary Install Hardware
711	1	SR SMITH	MULTILIFT	ADA 2009.2 COMPLIANT LIFT

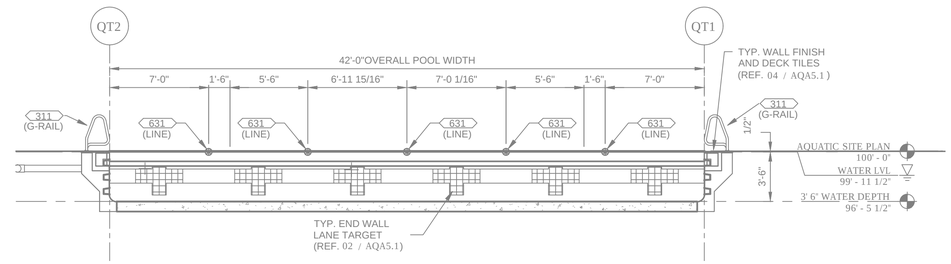
POOL SCHEDULE - DRAIN AND RETURN FIXTURES

MARK	QTY.	MFR.	MODEL	DESCRIPTION
211	2	Paddock	2448ESMD-FC	Stainless Steel Sump Drain and Cover, VGB Compliant, 24'x48'x30", 12" INF/EFF Conn., Open Area = 425.78 in², Floor Capacity = 3,500 GPM



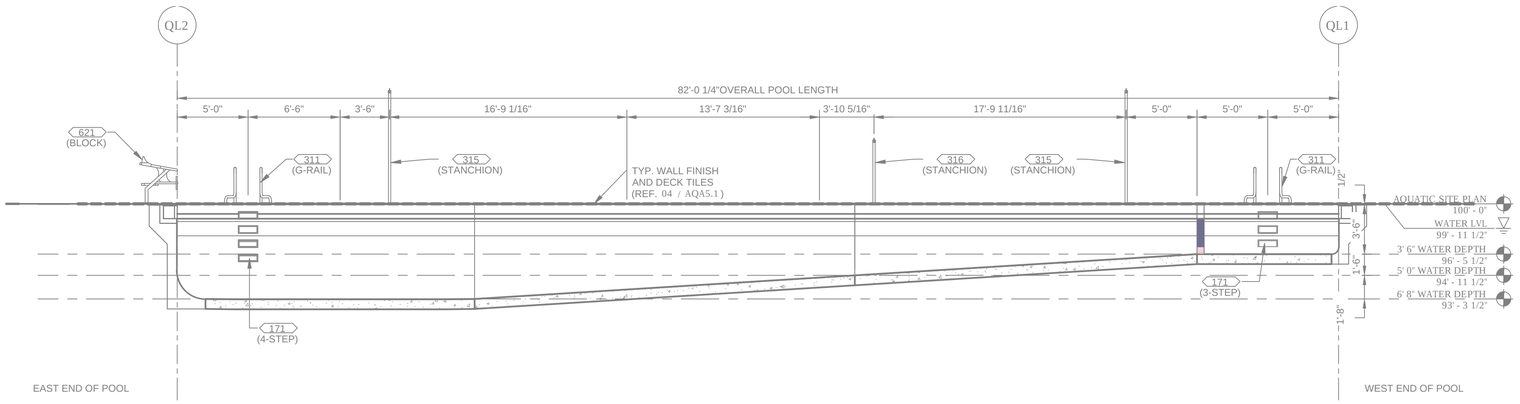
EAST ELEVATION | 02

3/16" = 1'-0" | AQA3.1



WEST ELEVATION | 03

3/16" = 1'-0" | AQA3.1



EAST END OF POOL

WEST END OF POOL

SOUTH ELEVATION | 04

3/16" = 1'-0" | AQA3.1

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JOB NO: FtM20D000

DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

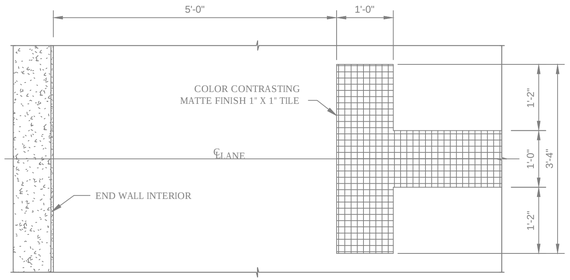
Designed by: USAQATICS, INC.
Drawn by: MAB
Ckd by:
Reviewed by: RTS
Submitted by: DPW
Date: 09/15/21
Rev.
Work Order No 1186
Project Number ES 12008-21

FORT MCCOY
DIRECTORATE OF PUBLIC WORKS
2171 SCENIC DRIVE, BLDG 1405
FORT MC COY, WI 54656

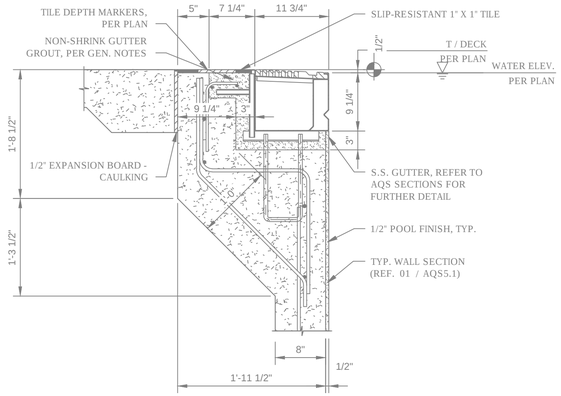
ELEVATIONS - ARCHITECTURAL

SHEET NUMBER:
AQA3.1
SHEET 104 of 116

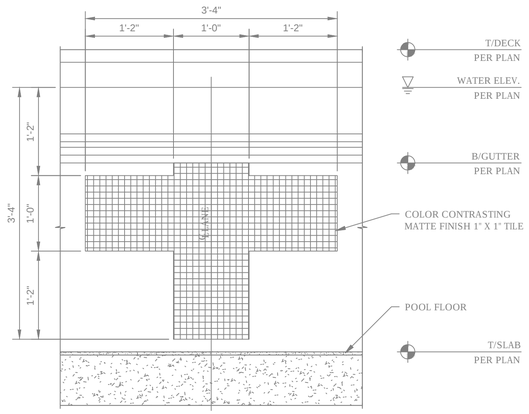
Plot date:



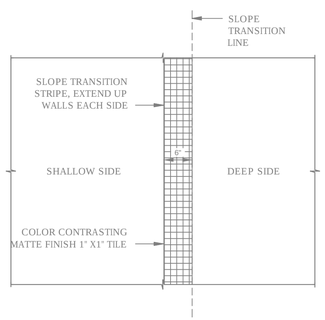
LANE LINE MARKING | 01
3/4" = 1'-0" | AQA5.1



WALL FINISH & TILE - NO RECESS | 04
1" = 1'-0" | AQA5.1



END WALL LANE TARGET W/ GUTTER | 02
1" = 1'-0" | AQA5.1



SLOPE TRANSITION LINE MARKING | 03
3/4" = 1'-0" | AQA5.1

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Phone (763) 972-5897 • Fax (763) 972-5864
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JOB NO: FtM20D000

DPW
FORT MCCOY, WI

MARK	DATE	MOD #
MOD REQUEST # - DESCRIPTION		

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

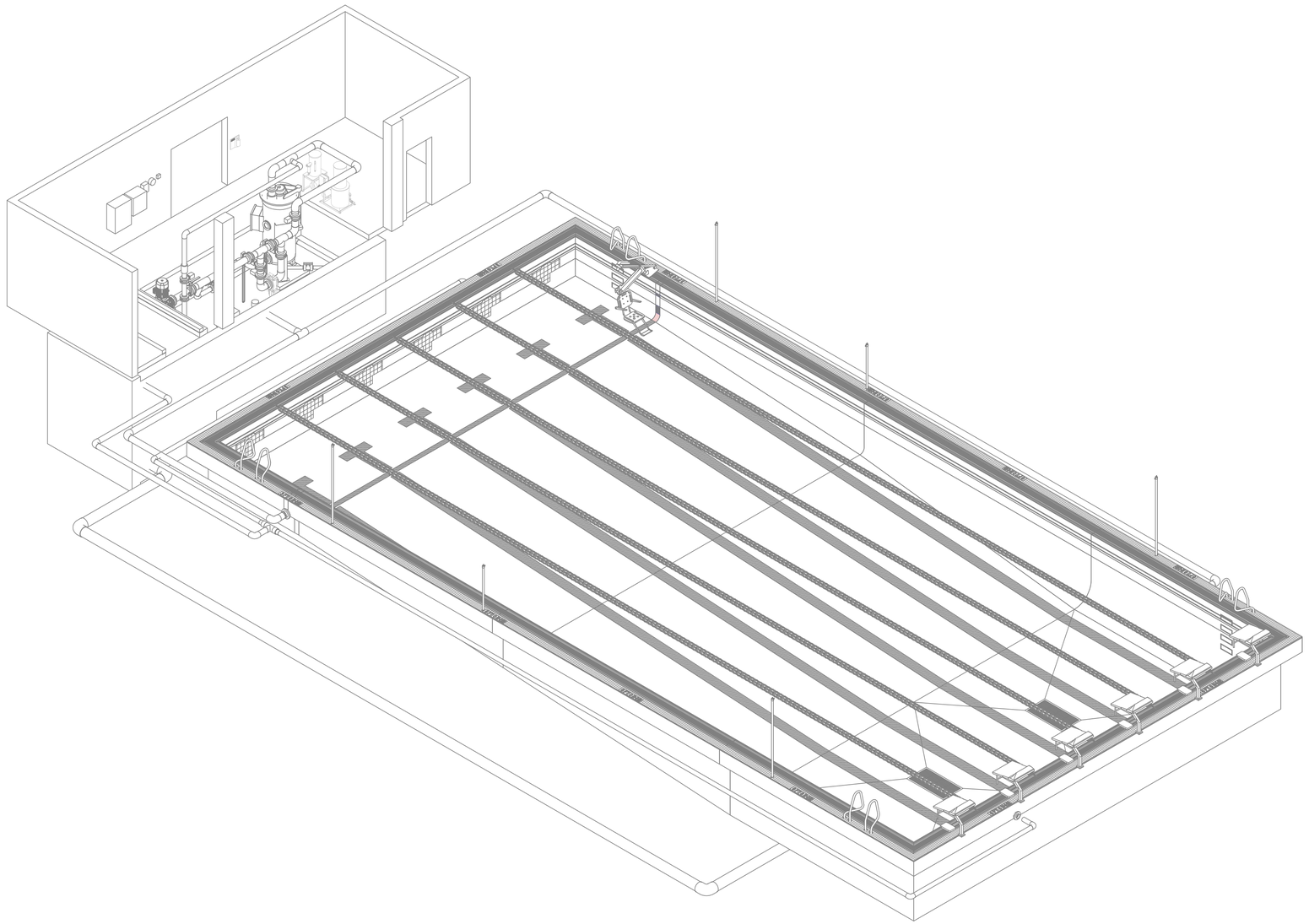
FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SCHOFIELD AVE
FORT MCCOY, WI 54656

Designed by: USAQUATICS, INC.
Drawn by: MAB
Ckd by:
Reviewed by: RTS
Submitted by: DPW
Date: 09/15/21
Rev.
Work Order No 1186
Project Number FCI 1200243

TYPICAL DETAILS - ARCHITECTURAL

SHEET NUMBER:
AQA5.1
SHEET 105 of 116

Plot date:



ISOMETRIC - ARCHITECTURAL | 01
AQA9.1

JOB NO: FtM20D000

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AQUATIC CONSULTING & DESIGN
124 Bridge Ave. E. PO Box 86 • Delano, MN 55328
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DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: USA-QATICS, INC.	Date: 09/15/21
Drawn by: MAB	Ckd by:
Reviewed by: RTS	Work Order No 1186
Submitted by: DPW	Project Number ES 12080-23

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT McCOY, WI 54656

ISOMETRICS - ARCHITECTURAL

SHEET NUMBER:
AQA9.1

Plot Date:

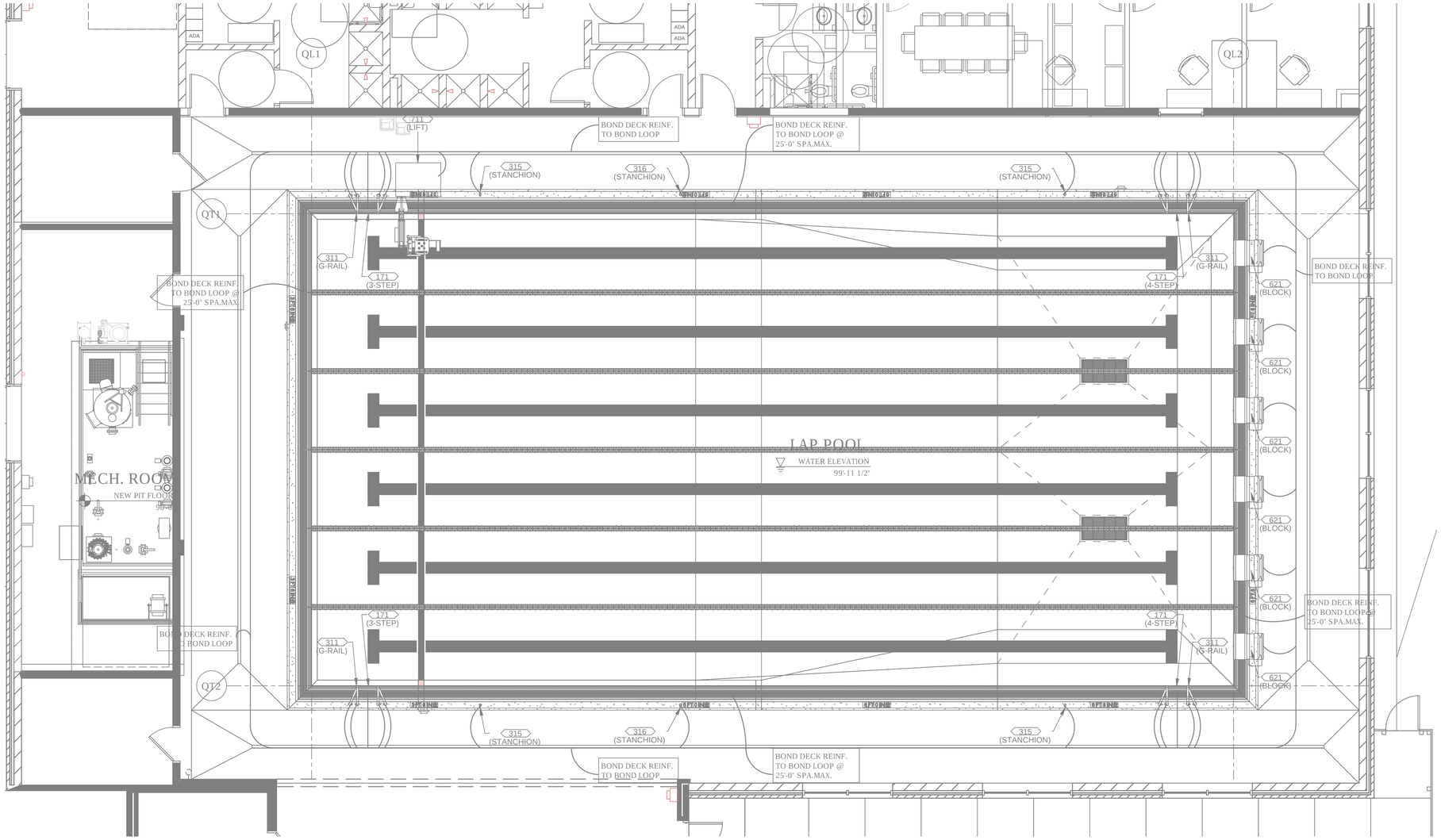
POOL SCHEDULE - DECK EQUIPMENT

MARK	QTY.	MFR.	MODEL	DESCRIPTION
154-0	4	Inlays, Inc.	C621000	"0" Depth Marker, NO Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-3	4	Inlays, Inc.	C621030	"3" Depth Marker, NO Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-5	2	Inlays, Inc.	C621050	"5" Depth Marker, NO Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-6	10	Inlays, Inc.	C621060	"6" Depth Marker, NO Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-8	4	Inlays, Inc.	C621080	"8" Depth Marker, NO Series, Smooth, 6"x6" Ceramic Tile, 4" Font
154-FT	12	Inlays, Inc.	C623500	"FT" Depth Marker, AB Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-IN	12	Inlays, Inc.	C623505	"IN" Depth Marker, AB Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-ND	12	Inlays, Inc.	C621522	"NO DIVING" Depth Marker, MG Series, Skid Resistant, 6"x6" Ceramic Tile, 2" Font
311	4	Spectrum	Custom	Grab rails (pair), California Style, 30" Tall, Verify Anchor Setback, 1.90"x.109", 316L S.S.
315	4	Spectrum Aquatics	134034-96-.109	Backstroke Stanchion, 8'-0" Tall, 1.90"x.109", 316L, Include All Necessary Install Hardware
316	2	Spectrum Aquatics	134034-54-.109	Recall/False Start Stanchion, 4'-6" Tall, 1.90"x.109", 316L, Include All Necessary Install Hardware
711	1	SR SMITH	MULTILIFT	ADA 2009.2 COMPLIANT LIFT

ELECTRICAL BONDING PLAN NOTES

○ INDICATES NOTE REFERENCED IN PLAN

1. BONDING WIRE TO BE #6 SOLID COPPER WIRE.
2. ALL BONDING TO MEET N.E.C. INTENT: MAINTAIN CONTINUOUS BOND W/ ALL METALLIC GOODS WITHIN FIVE FEET (5') OF POOL.
3. ALL BONDING TO BE BY GC / PRIME.
4. BONDING INSPECTION MUST BE COMPLETE BEFORE CONCRETE IS PLACED.
5. ALL NON-ELECTRICAL EQUIPMENT IN MECHANICAL ROOM TO BE BONDED TO MAIN LOOP & TERMINATED ON PUMP GROUND TERMINAL.



USAQUATICS INC
AQUATIC CONSULTING & DESIGN
124 Bridge Ave. E. PO Box 86 • Delano, MN 55328
Phone (763) 972-3897 • Fax (763) 972-5864
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ELECTRICAL BONDING PLAN | 01
3/16" = 1'-0" | AQE1.1

JOB NO: FtM20D000

DPW
FORT MCCOY, WI

MARK	DATE	MOD #

MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: USAQATICS, INC.
Drawn by: MAB
Cad by:
Reviewed by: RTS
Submitted by: DPW
Date: 09/15/21
Rev.
Work Order No 1186
Project Number ES 12503-24

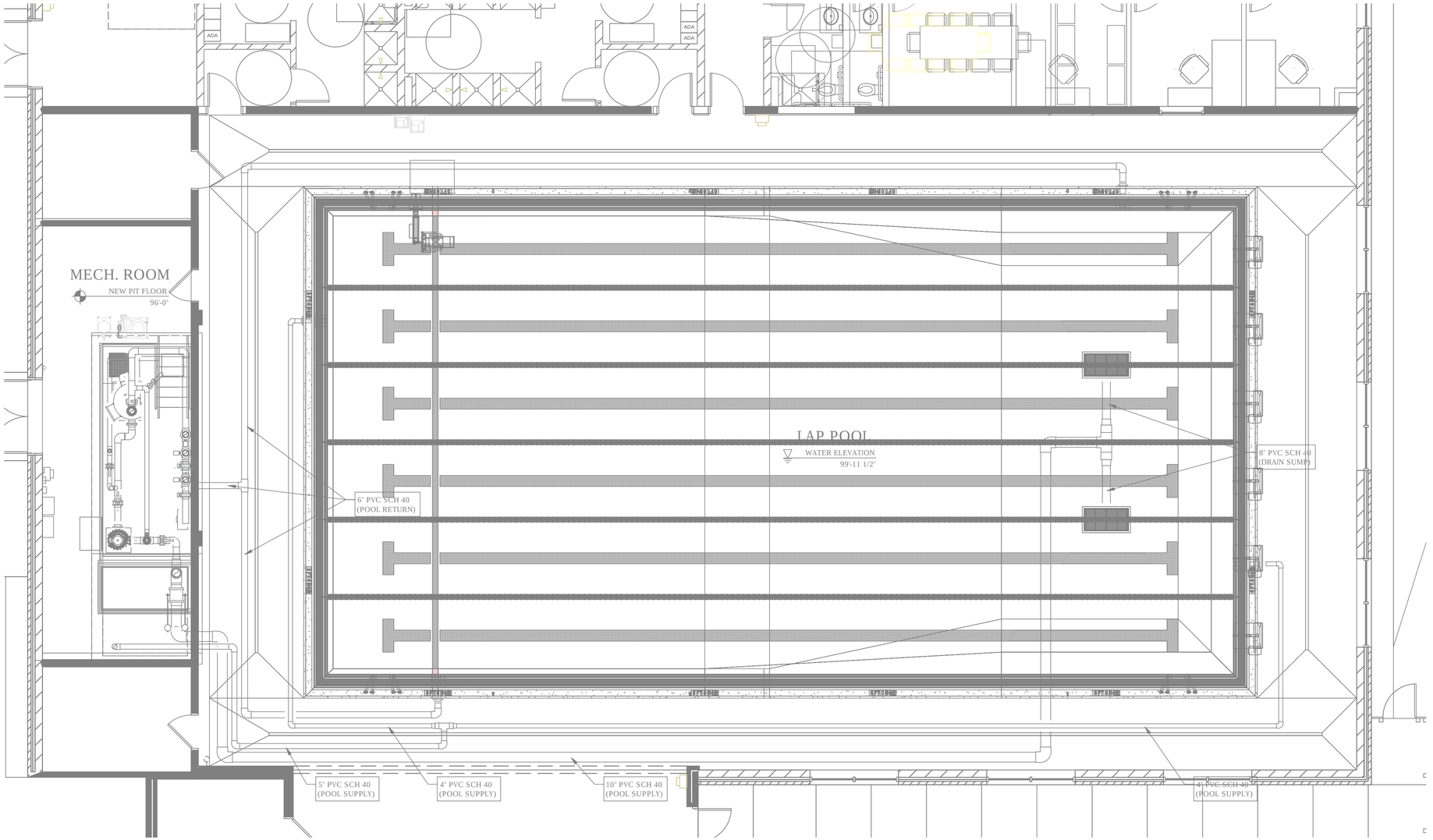
FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MCCOY, WI 54656

ELECTRICAL BONDING PLAN

SHEET NUMBER:
AQE1.1

SHEET 107 of 116

Plot Date:



FIELD PLUMBING PLAN | 01
3/16" = 1'-0" | AQM1.1

JOB NO: FtM20D000

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DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by:	USAQUATICS, INC.
Drawn by:	MAB
Cad by:	
Reviewed by:	RTS
Submitted by:	DPW
Date:	09/15/21
Rev.	
Work Order No	1186
Project Number	FS 12003-20

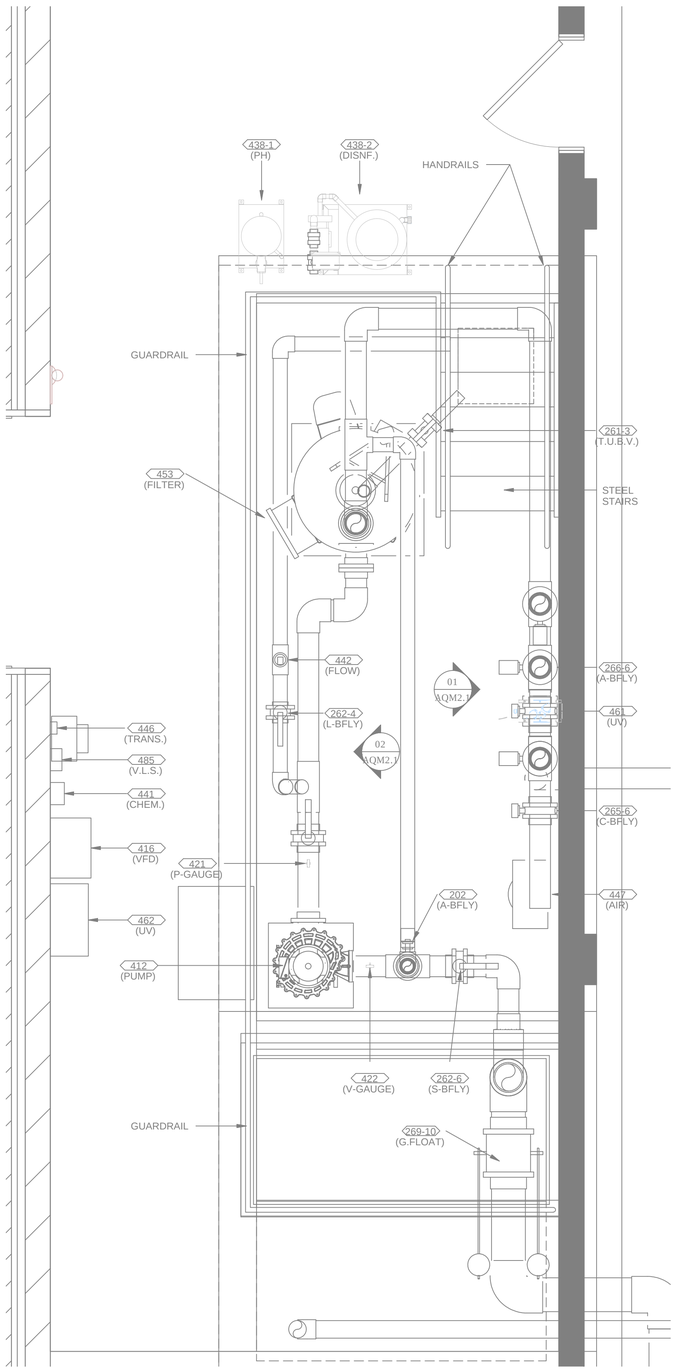
FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SCOTT AVE.
FORT MC COY, WI 54656

FIELD PLUMBING PLAN

SHEET NUMBER:
AQM1.1

SHEET 108 of 116

Plot Date:



MECHANICAL ROOM 01

1/2" = 1'-0" AQM1.2

MECHANICAL ROOM SCHEDULE - PIPE ACCESORIES

MARK	QTY.	MFR.	MODEL	DESCRIPTION
206-6	3	---	---	Flange, 6"

MECHANICAL ROOM SCHEDULE - RECIRCULATION AND FILTRATION EQUIPMENT

MARK	QTY.	MFR.	MODEL	DESCRIPTION
412	1	Speck	125/250	BADU Block Multi Series, Vertical Pump w/ Integrated Plastic Strainer Tank & Spare Basket, TEFC, 20 HP, 480 V, 3 Phase, 8" INF. Conn., 5" EFF. Conn.
416	1	Neptune-Benson	- - -	GreenDrive Variable Frequency Drive, 20 HP, 480 V, 3 Phase, NEMA 12 (IP55)
421	1	Trerice	700LFSS (Gauge) 865 MFG (G. Cock) 872-2 (Snubber)	Pressure Gauge w/ Brass Gauge Cock & Snubber, 2-1/2" Dial
422	1	Trerice	700LFSS (Gauge) 865 MFG (G. Cock) 872-2 (Snubber)	Vacuum Gauge w/ Brass Gauge Cock & Snubber, 2-1/2" Dial
438-1	1	Axiall	Acid-Rite 450	Sodium Bisulfate pH Adjustment System, 120 V, 1 Phase, 20 A, 1" INF/EFF Conn.
438-2	1	Axiall	Powerbase 3070AT	Calcium Hypochlorite Chlorination System, 120 V, 1 Phase, 20 A, 1-1/2" INF/EFF Conn.
441	1	BECS Technology	BECSys5	Water Chemistry Controller w/ IT Connectivity, 120 V, 1 Phase, 12.25 A
442	1	H2flow Controls	FV-4	FlowVis Flow Meter, 160-330 GPM, 4" INF/EFF Conn.
446	1	GF Signet	9900	Signal Transmitter, DC Power (Per MFR)
447	1	Ingersoll Rand	P1.5iU-A9	Air Compressor, 2 HP, 120 V, 1 Phase, 15 A, 20 Gal.
453	1	Neptune-Benson	SP-33-48-732	Defender Regenerative Media Filter, 120 V, 1 Phase, 20 A, 8" INF/EFF Conn., 3" Drain Conn., 3/4" Air Bleed Conn., Operating Wt. = 3,880 lbs
461	1	Neptune-Benson	WF-215-6	Wafer UV Disinfection Chamber w/ EZ Manual Strainer, 6" INF/EFF Conn., Medium Pressure, (2) 1.5 kW Lamps
462	1	Neptune Benson	WF-215-6	Wafer UV Disinfection Control Box, 240 V, 1 Phase, 30 A
485	1	Mercoid	DA-7031-153	Series DA/DS-7000 Pressure Switch, Brass Bourdon Tube, 0-30" Hg Vacuum

MECHANICAL ROOM SCHEDULE - HEALTH AND SAFETY

MARK	QTY.	MFR.	MODEL	DESCRIPTION
507-1	1	RecSupply	DD1027850	Chemical Safety Gloves, Neoprene Coated
507-2	1	RecSupply	DD0038750	Heavy Duty Chemical Apron, 33"x49", 18 mil
507-3	1	RecSupply	DD1511750	Heavy Duty Chemical Safety Goggles
508-1	1	RecSupply	DD2703250	Eyesaline Emergency Eyewash Station, 32 oz Bottle
508-2	1	RecSupply	DP2603750	Eyesaline Emergency Eyewash Station Refill, 32 oz Bottle
519	1	---	Per Code	State Compliant Signage, Chemical

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JOB NO: FtM20D000

DPW
FORT MCCOY, WI

MARK	DATE	MOD #

MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

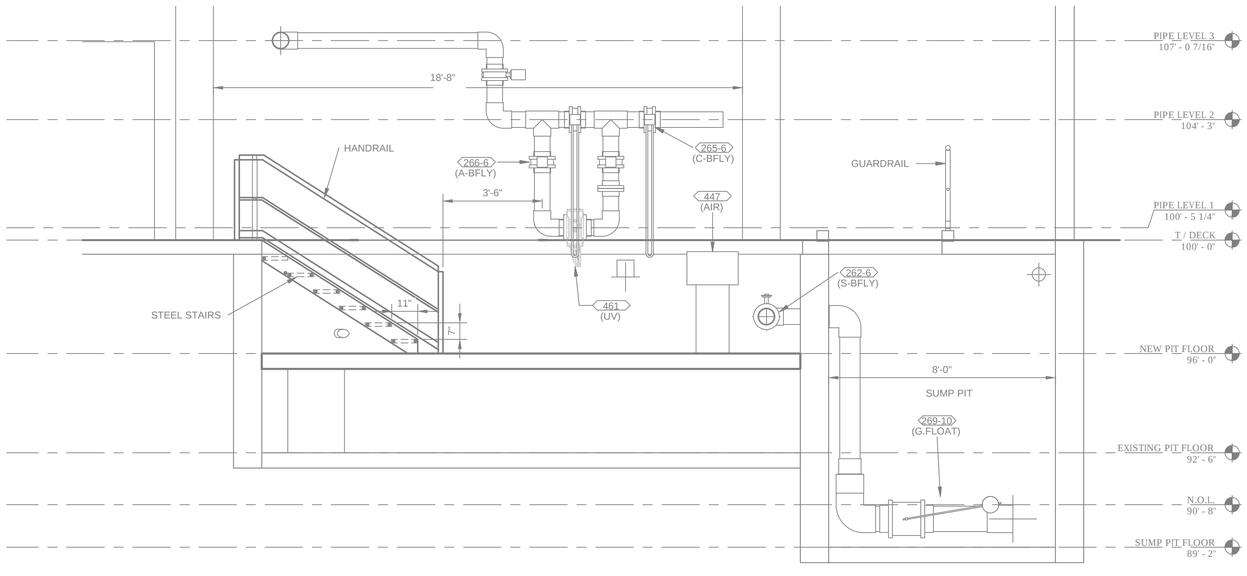
Designed by: USAQATICS, INC.	Date: 09/15/21
Drawn by: MAB	Ckd by:
Reviewed by: RTS	Rev:
Submitted by: DPW	Work Order No 1108
FORT MCCOY DIRECTORATE OF PUBLIC WORKS 2171 SOUTH 8TH AVE FORT MCCOY, WI 54656	Project Number ES 120537.21

MECHANICAL ROOM PLAN

SHEET NUMBER:
AQM1.2

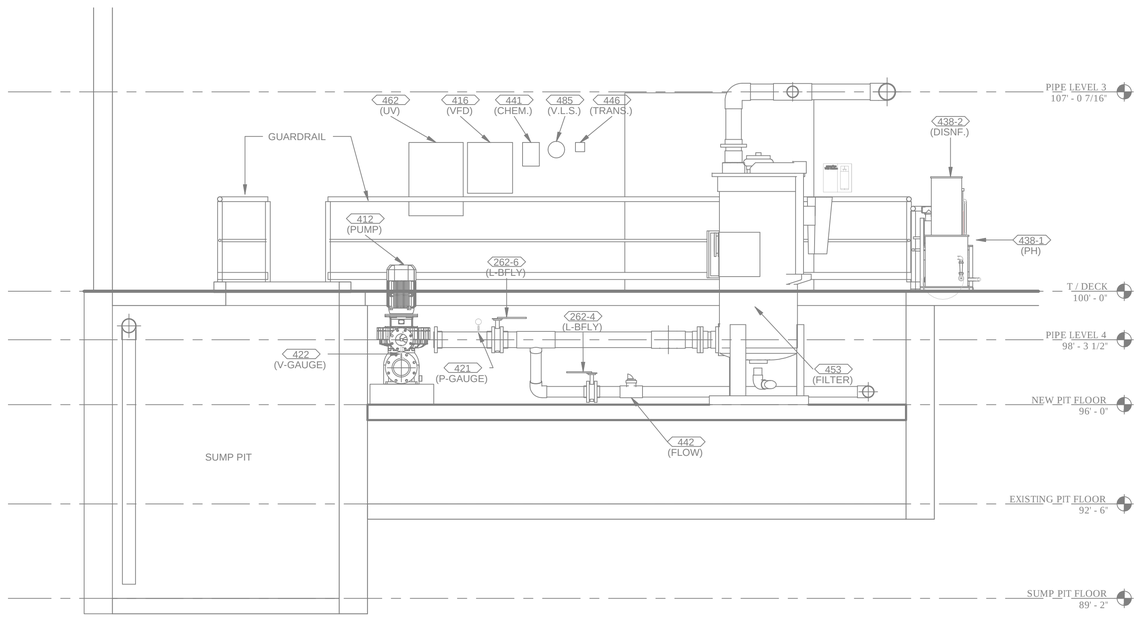
SHEET 109 of 116

Plot date:



EAST ELEVATION - MECHANICAL ROOM | 01

3/8" = 1'-0" | AQM2.1



WEST ELEVATION - MECHANICAL ROOM | 02

3/8" = 1'-0" | AQM2.1

MECHANICAL ROOM SCHEDULE - PIPE ACCESORIES

MARK	QTY.	MFR.	MODEL	DESCRIPTION
206-6	3	---	---	Flange, 6"

MECHANICAL ROOM SCHEDULE - RECIRCULATION AND FILTRATION EQUIPMENT

MARK	QTY.	MFR.	MODEL	DESCRIPTION
412	1	Speck	125/250	BADU Block Multi Series, Vertical Pump w/ Integrated Plastic Strainer Tank & Spare Basket, TEFC, 20 HP, 480 V, 3 Phase, 8" INF. Conn., 5" EFF. Conn.
416	1	Neptune-Benson	- - -	GreenDrive Variable Frequency Drive, 20 HP, 480 V, 3 Phase, NEMA 12 (IP55)
421	1	Trerice	700LFSS (Gauge) 865 MFG (G. Cock) 872-2 (Snubber)	Pressure Gauge w/ Brass Gauge Cock & Snubber, 2-1/2" Dial
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438-1	1	Axiall	Acid-Rite 450	Sodium Bisulfate pH Adjustment System, 120 V, 1 Phase, 20 A, 1" INF/EFF Conn.
438-2	1	Axiall	Powerbase 3070AT	Calcium Hypochlorite Chlorination System, 120 V, 1 Phase, 20 A, 1-1/2" INF/EFF Conn.
441	1	BECS Technology	BECSys5	Water Chemistry Controller w/ IT Connectivity, 120 V, 1 Phase, 12.25 A
442	1	H2flow Controls	FV-4	FlowVis Flow Meter, 160-330 GPM, 4" INF/EFF Conn.
446	1	GF Signet	9900	Signal Transmitter, DC Power (Per MFR)
447	1	Ingersoll Rand	P1.5IU-A9	Air Compressor, 2 HP, 120 V, 1 Phase, 15 A, 20 Gal.
453	1	Neptune-Benson	SP-33-48-732	Defender Regenerative Media Filter, 120 V, 1 Phase, 20 A, 8" INF/EFF Conn., 3" Drain Conn., 3/4" Air Bleed Conn., Operating Wt. = 3,880 lbs
461	1	Neptune-Benson	WF-215-6	Wafer UV Disinfection Chamber w/ EZ Manual Strainer, 6" INF/EFF Conn., Medium Pressure, (2) 1.5 kW Lamps
462	1	Neptune Benson	WF-215-6	Wafer UV Disinfection Control Box, 240 V, 1 Phase, 30 A
485	1	Mercoid	DA-7031-153	Series DA/DS-7000 Pressure Switch, Brass Bourdon Tube, 0-30" Hg Vacuum

MECHANICAL ROOM SCHEDULE - HEALTH AND SAFETY

MARK	QTY.	MFR.	MODEL	DESCRIPTION
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507-2	1	RecSupply	DD0038750	Heavy Duty Chemical Apron, 33'x49", 18 mil
507-3	1	RecSupply	DD1511750	Heavy Duty Chemical Safety Goggles
508-1	1	RecSupply	DD2703250	Eyesaline Emergency Eyewash Station, 32 oz Bottle
508-2	1	RecSupply	DP2603750	Eyesaline Emergency Eyewash Station Refill, 32 oz Bottle
519	1	---	Per Code	State Compliant Signage, Chemical

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JOB NO: FtM20D000

DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

SEH

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: USAQUATICS, INC.	Date: 08/15/21
Drawn by: MAB	Rev.
Reviewed by: RTS	Work Order No 1168
Submitted by: DPW	Project Number ES 141009.23

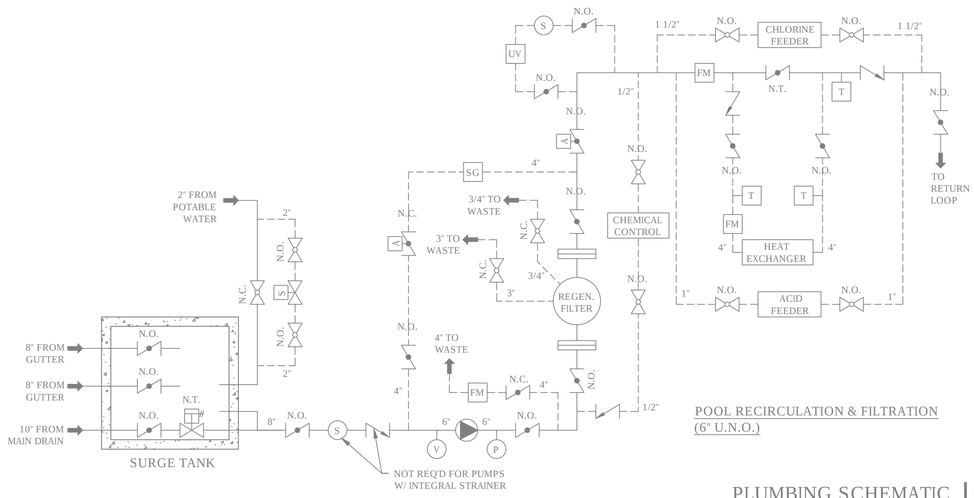
FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE.
FORT MCCOY, WI 54656

ELEVATIONS - MECHANICAL ROOM

SHEET NUMBER:
AQM2.1

SHEET 110 of 116

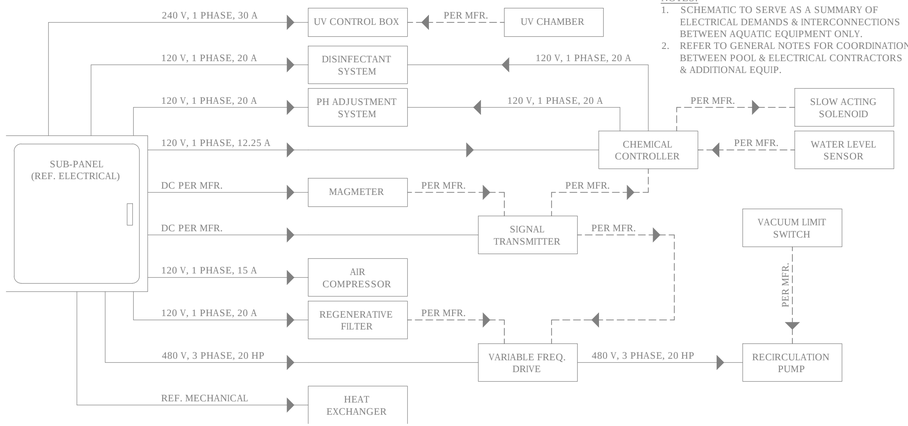
Plot date:



POOL RECIRCULATION & FILTRATION (6" U.N.O.)

PLUMBING SCHEMATIC | 01

1/4" = 1'-0" | AQM5.1

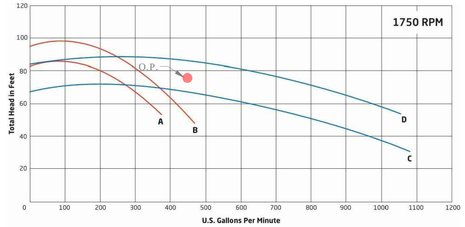


NOTES:
1. SCHEMATIC TO SERVE AS A SUMMARY OF ELECTRICAL DEMANDS & INTERCONNECTIONS BETWEEN AQUATIC EQUIPMENT ONLY.
2. REFER TO GENERAL NOTES FOR COORDINATION BETWEEN POOL & ELECTRICAL CONTRACTORS & ADDITIONAL EQUIP.

WIRING SCHEMATIC - POOL | 02

3/8" = 1'-0" | AQM5.1

PUMP CURVES - SPECK BADU BLOCK MULTI SERIES - 65/250 & 100/250



A. 65/250 (Ø 225mm) - 7.5 HP S.F. 1.25
B. 65/250 (Ø 240mm) - 10.0 HP S.F. 1.25
C. 100/250 (Ø 220mm) - 15.0 HP S.F. 1.25
D. 100/250 (Ø 240mm) - 20.0 HP S.F. 1.25

NOTES:
1. PUMP CURVES OBTAINED FROM PRODUCT LITERATURE.
2. POOL OPERATING POINT (O.P.) IS AT (XX GPM, XX FT).
3. SPA OPERATING POINT (O.P.) IS AT (XX GPM, XX FT).
4. HYDROTHERAPY JETS OPERATING POINT (O.P.) IS AT (XX GPM, XX FT).
5. POOL PUMP SELECTED HAS X HP.
6. SPA PUMP SELECTED HAS X HP.
7. HYDROTHERAPY JETS PUMP SELECTED HAS X HP.

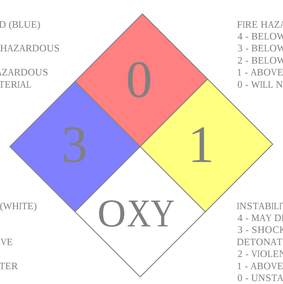
PUMP CURVES - SPECK BADU BLOCK MULTI SERIES | 05

3/4" = 1'-0" | AQM5.1

PLUMBING / WIRING SCHEMATIC LEGEND

MFR.	MODEL/SIZE	MFR.	MODEL/SIZE	MFR.	MODEL/SIZE
	BALL VALVE		FLOAT VALVE		PUMP
	BUTTERFLY VALVE	FM	FLOW METER	SG	SIGHT GLASS
A	BUTTERFLY VALVE, AIR OPERATED	N.C.	NORMALLY CLOSED	S	SOLENOID VALVE
	BYPASS PLUMBING / LOW VOLTAGE CONN.	N.O.	NORMALLY OPEN	S	STRAINER
	CHECK VALVE	N.T.	NORMALLY THROTTLED	T	THERMOMETER
	DIVERTER VALVE	P	PRESSURE GAUGE	UV	UV CHAMBER
	FLANGE BREAK		PRIMARY PLUMBING / HIGH VOLTAGE CONN.	V	VACUUM GAUGE

CALCIUM HYPOCHLORITE ($Ca[OCl]_2$)



HEALTH HAZARD (BLUE)
4 - DEADLY
3 - EXTREMELY HAZARDOUS
2 - HAZARDOUS
1 - SLIGHTLY HAZARDOUS
0 - NORMAL MATERIAL

FIRE HAZARD (RED)
4 - BELOW 70 F (FLAMABLE)
3 - BELOW 100 F (FLAMABLE)
2 - BELOW 200 F (FLAMABLE)
1 - ABOVE 200 F (FLAMABLE)
0 - WILL NOT BURN

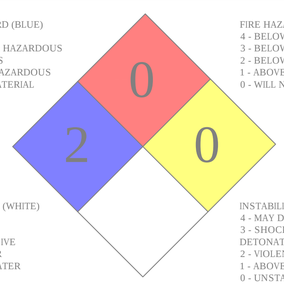
SPEC. HAZARD (WHITE)
ACID - ACID
ALK - ALKALI
COR - CORROSIVE
OXY - OXIDIZER
W - USE NO WATER

INSTABILITY (YELLOW)
4 - MAY DETONATE
3 - SHOCK AND HEAT MAY DETONATE
2 - VIOLENT CHEMICAL CHANGE
1 - ABOVE 200 F (FLAMABLE)
0 - UNSTABLE IF HEATED

NFPA 704 - CALCIUM HYPOCHLORITE | 03

3/4" = 1'-0" | AQM5.1

SODIUM BISULFATE ($NaHSO_4$)



HEALTH HAZARD (BLUE)
4 - DEADLY
3 - EXTREMELY HAZARDOUS
2 - HAZARDOUS
1 - SLIGHTLY HAZARDOUS
0 - NORMAL MATERIAL

FIRE HAZARD (RED)
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1 - ABOVE 200 F (FLAMABLE)
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NFPA 704 - SODIUM BISULFATE | 04

3/4" = 1'-0" | AQM5.1

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JOB NO: FtM20D000

DPW
FORT MCCOY, WI

MOD # | DATE | MOD REQUEST # - DESCRIPTION | MARK

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: USAQUATICS, INC.	Date: 09/15/21
Drawn by: MAB	Ckd by:
Reviewed by: RTS	Rev.
Submitted by: DPW	Work Order No 1168
	Project Number ES 142092 23

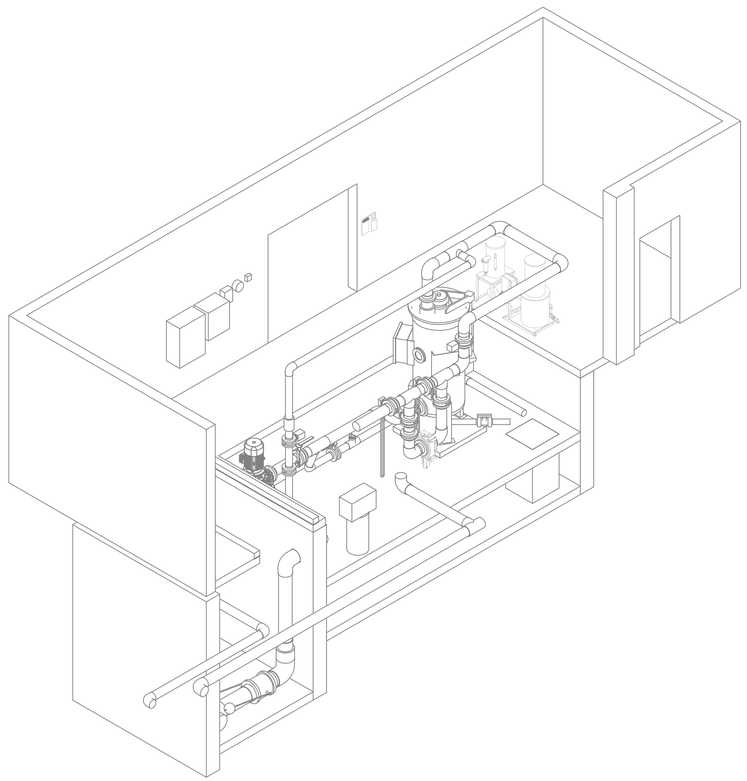
FORT McCOY
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2171 SOUTH 1ST AVE
FORT MCCOY, WI 54656

TYPICAL DETAILS - MECHANICAL

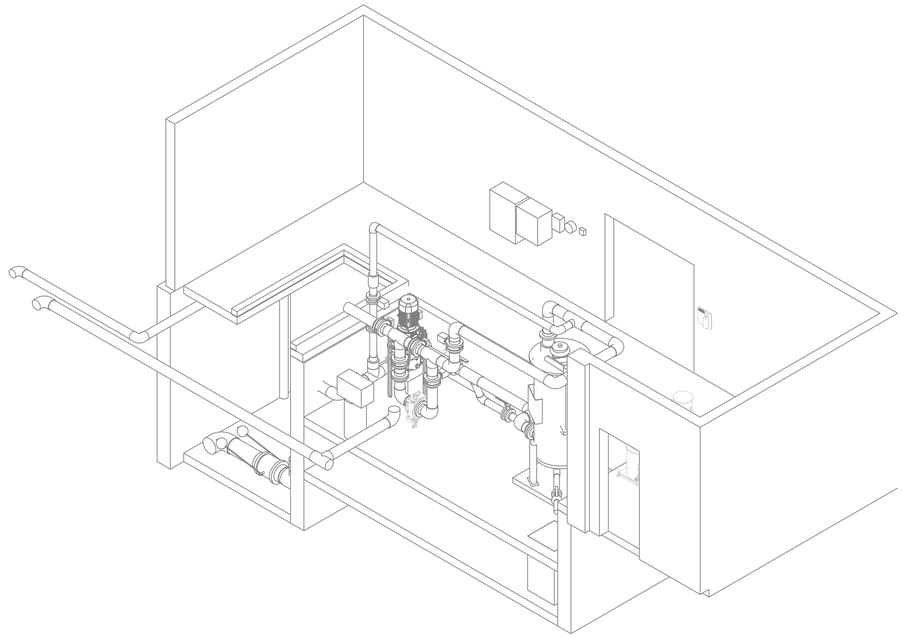
SHEET NUMBER: AQM5.1

SHEET 111 of 116

Plot date:



SW ISOMETRIC - MECHANICAL ROOM | 01
AQM9.1



NW ISOMETRIC - MECHANICAL ROOM | 02
AQM9.1

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JOB NO: FtM20D000

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: USAQATICS, INC.	Cad by:	Date: 09/15/21	
Dwn by: MAB		Rev.	
Reviewed by: RTS		Work Order No 1168	
Submitted by: DPW		Project Number ES 120622.3	

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 1ST AVE
FORT MCCOY, WI 54656

ISOMETRICS - MECHANICAL ROOM

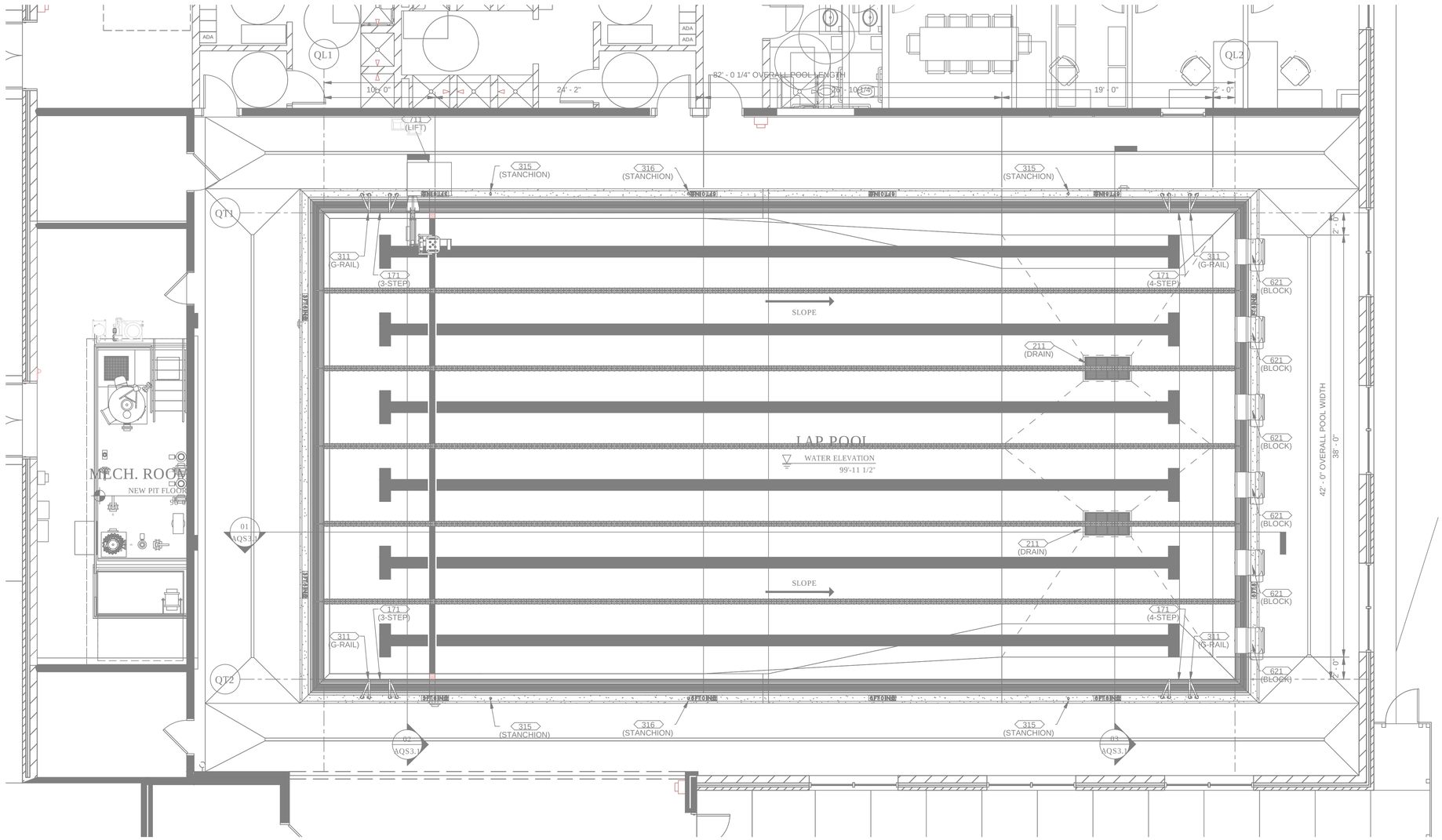
SHEET NUMBER:
AQM9.1

SHEET 112 of 116

Plot date:

POOL SCHEDULE - DECK EQUIPMENT

MARK	QTY.	MFR.	MODEL	DESCRIPTION
154-0	4	Inlays, Inc.	C621000	"0' Depth Marker, NO Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
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154-6	10	Inlays, Inc.	C621060	"6' Depth Marker, NO Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-8	4	Inlays, Inc.	C621080	"8' Depth Marker, NO Series, Smooth, 6"x6" Ceramic Tile, 4" Font
154-FT	12	Inlays, Inc.	C623500	"FT' Depth Marker, AB Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-IN	12	Inlays, Inc.	C623505	"IN' Depth Marker, AB Series, Skid Resistant, 6"x6" Ceramic Tile, 4" Font
154-ND	12	Inlays, Inc.	C621522	"NO DIVING" Depth Marker, MG Series, Skid Resistant, 6"x6" Ceramic Tile, 2" Font
311	4	Spectrum	Custom	Grab rails (pair), California Style, 30" Tall, Verify Anchor Setback, 1.90"x.109", 316L S.S.
315	4	Spectrum Aquatics	134034-96-.109	Backstroke Stanchion, 8'-0" Tall, 1.90"x.109", 316L, Include All Necessary Install Hardware
316	2	Spectrum Aquatics	134034-54-.109	Recall/False Start Stanchion, 4'-6" Tall, 1.90"x.109", 316L, Include All Necessary Install Hardware
711	1	SR SMITH	MULTILIFT	ADA 2009.2 COMPLIANT LIFT



STRUCTURAL PLAN 01
3/16" = 1'-0" AQS1.1

JOB NO: F\M20D000

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124 Bridge Ave. E. PO Box 86 • Delano, MN 55328
Phone (763) 972-5897 • Fax (763) 972-5864
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DPW
FORT MCCOY, WI

MARK	DATE	MOD #

MOD REQUEST # - DESCRIPTION

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

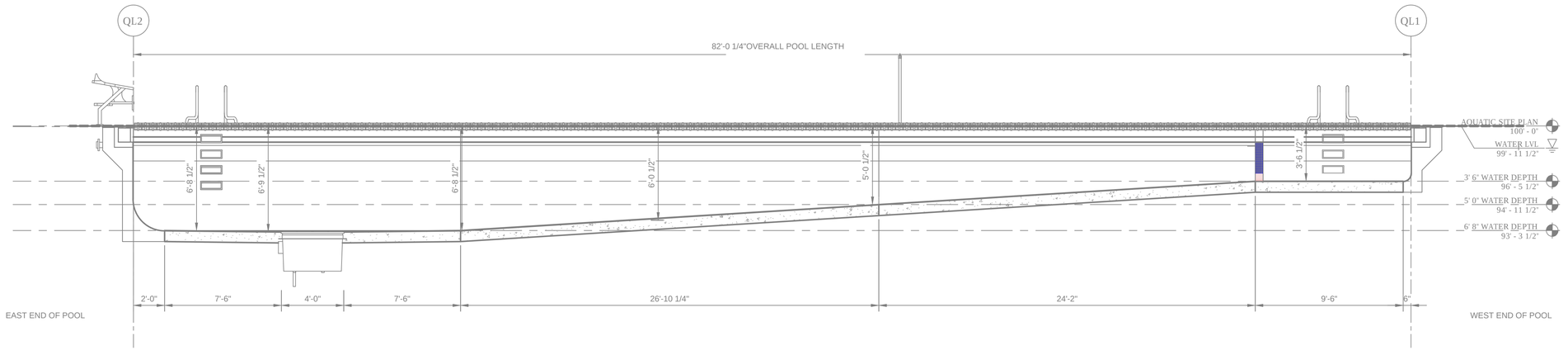
FORT MCCOY
DIRECTORATE OF PUBLIC WORKS
2171 GOGGINS AVE.
FORT MC COY, WI 54656

Designed by: USAQUATICS, INC.	Date: 09/15/21
Dwn by: MAB	Rev.
Chd by:	Work Order No 1186
Reviewed by: RTS	Project Number ES 122003-21
Submitted by: DPW	

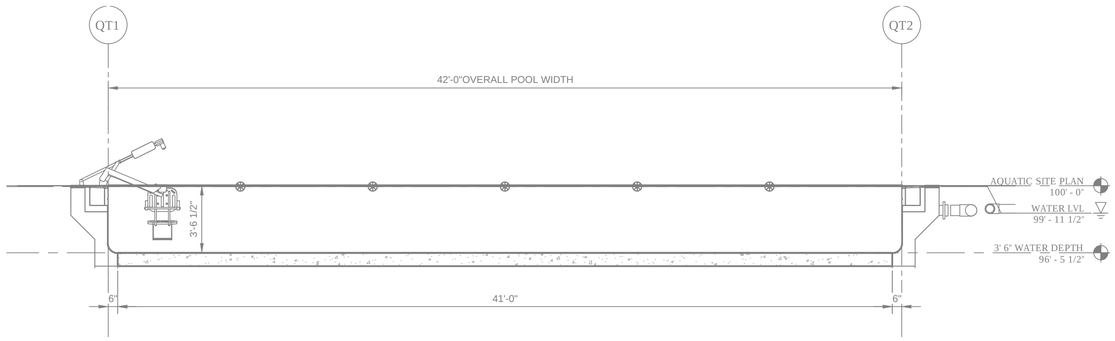
STRUCTURAL PLAN

SHEET NUMBER:
AQS1.1
SHEET 113 of 116

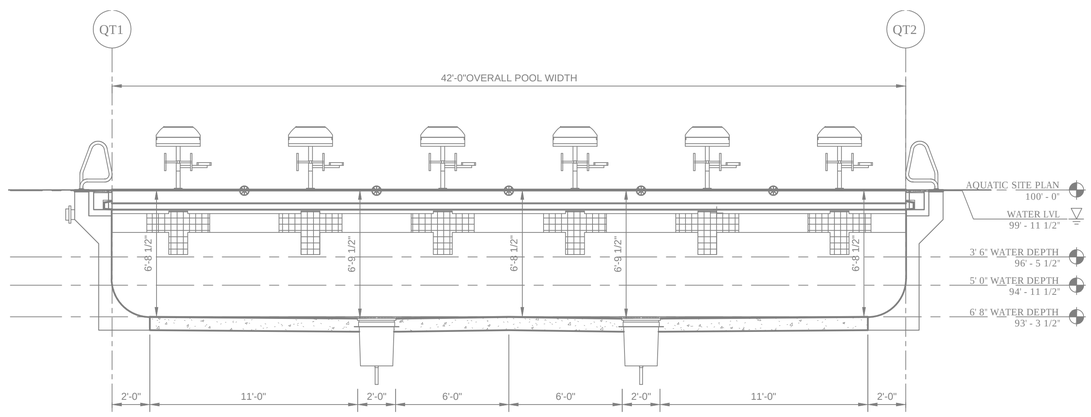
Plot date:



LAP POOL - LONG | 01
1/4" = 1'-0" | AQS3.1



LAP POOL - SHALLOW END | 02
1/4" = 1'-0" | AQS3.1



LAP POOL - DEEP END | 03
1/4" = 1'-0" | AQS3.1

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Phone (763) 972-3897 · Fax (763) 972-5864
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JOB NO: FtM20D000

DPW
FORT MCCOY, WI

MARK	DATE	MOD REQUEST # - DESCRIPTION	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: USAQUATICS, INC.
Drawn by: MAB
Ckd by:
Reviewed by: RTS
Submitted by: DPW
Date: 09/15/21
Rev.
Work Order No 1186
Project Number ES 126037.23

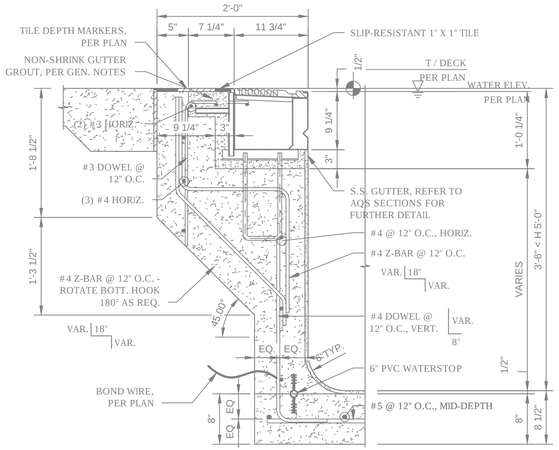
FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 6TH AVE.
FORT MCCOY, WI 54656

SECTIONS - STRUCTURAL

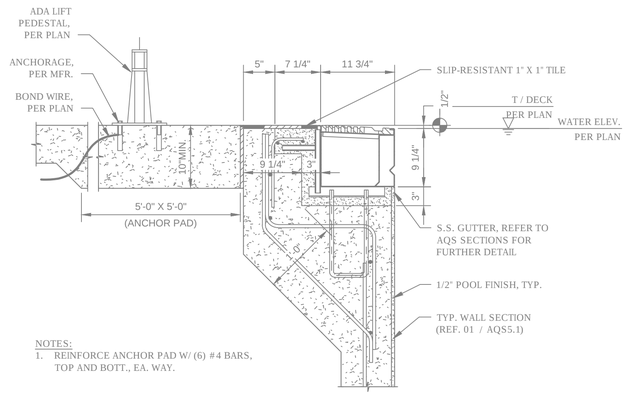
SHEET NUMBER:
AQS3.1

SHEET 114 of 116

Plot date:

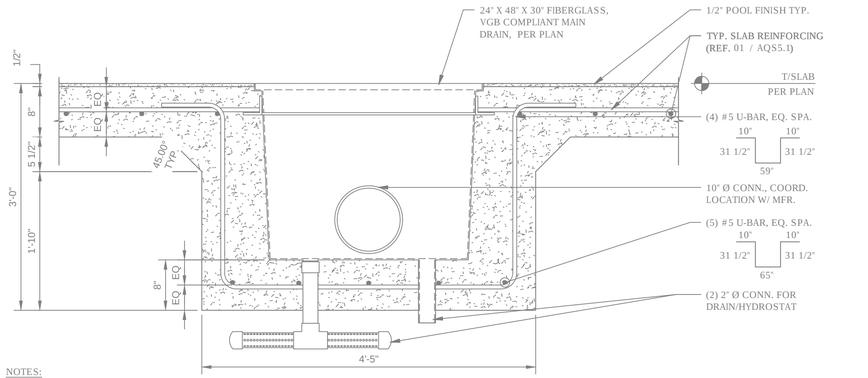


8" WALL REINF. | 01
1" = 1'-0" | AQS5.1



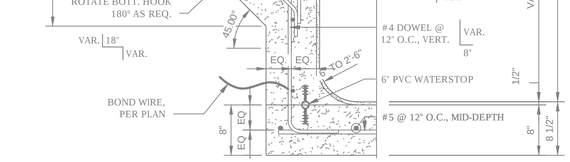
NOTES:
1. REINFORCE ANCHOR PAD W/ (6) #4 BARS, TOP AND BOTT., EA. WAY.

ADA LIFT @ 8" WALL | 04
1" = 1'-0" | AQS5.1

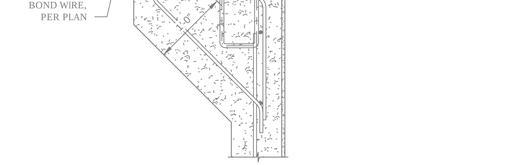


NOTES:
1. SLOPE SLAB TO DRAIN, PER PLAN.
2. DRAIN / HYDROSTAT PORTs TO BE USED FOR (1) HYDROSTATIC RELIEF VALVE AND (1) 2" DRAIN LINE ON EACH MAIN DRAIN.
3. PROVIDE 12" FREE-DRAINING MATERIAL UNDER MAIN DRAIN.

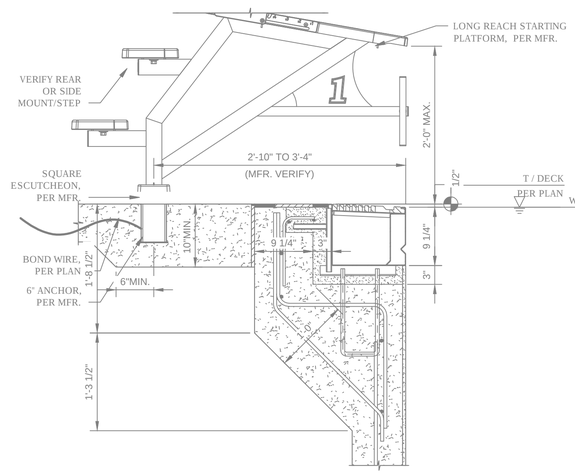
MAIN DRAIN @ 8" SLAB | 07
1" = 1'-0" | AQS5.1



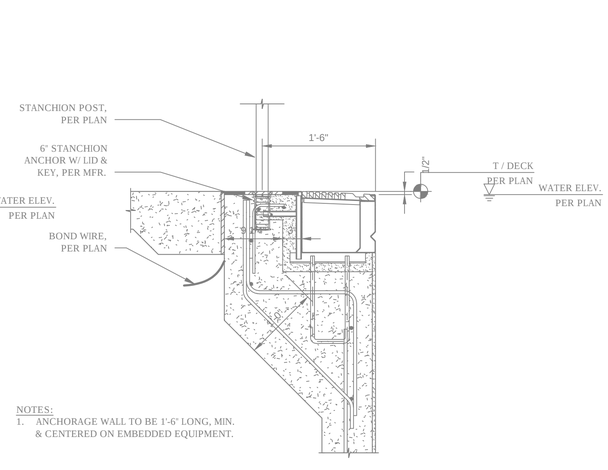
8" WALL REINF. | 02
1" = 1'-0" | AQS5.1



STEP INSERT IN GUTTER & RAIL | 05
1" = 1'-0" | AQS5.1



STARTING BLOCK @ 8" WALL | 03
1" = 1'-0" | AQS5.1



NOTES:
1. ANCHORAGE WALL TO BE 1'-6" LONG, MIN. & CENTERED ON EMBEDDED EQUIPMENT.

STANCHION POST @ 8" WALL | 06
1" = 1'-0" | AQS5.1

DPW
FORT MCCOY, WI

MARK	MOD REQUEST # - DESCRIPTION	DATE	MOD #

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SOUTH 8TH AVE
FORT MCCOY, WI 54656

Designed by: USAQUATICS, INC.	Date: 09/15/21
Drawn by: MAB	Ckd by:	Rev.
Reviewed by: RTS	Work Order No 1168
Submitted by: DPW	Project Number EPS 1220012-01

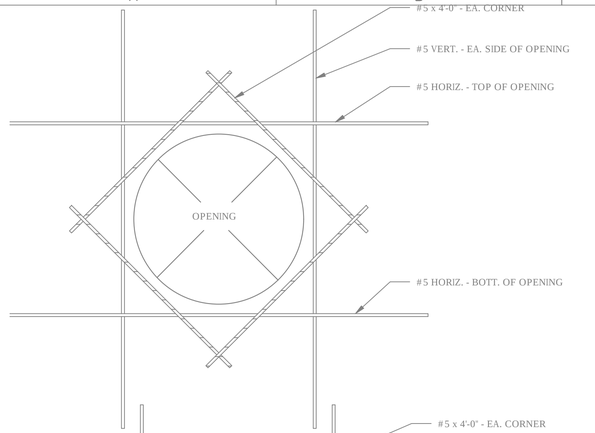
TYPICAL DETAILS - STRUCTURAL

SHEET NUMBER:
AQS5.1
SHEET 115 of 116

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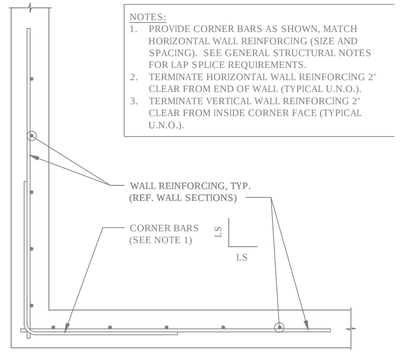
JOB NO: FtM20D000

Plot date:



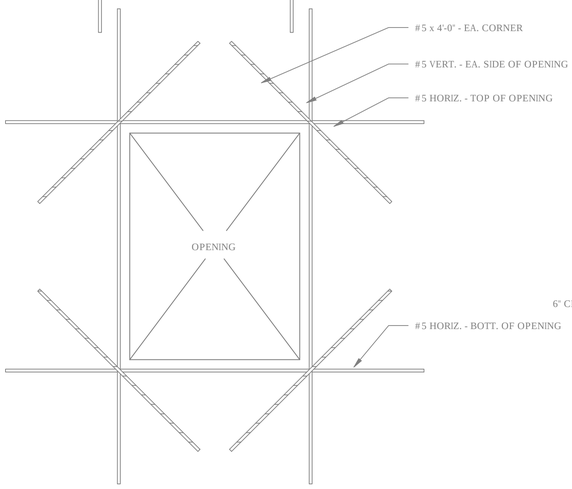
NOTES:
1. WHERE VERTICAL REINFORCING IS INTERRUPTED BY THE OPENING, ONE HALF OF THE INTERRUPTED STEEL SHALL BE ADDED TO EACH SIDE OF THE OPENING. USE FULL LENGTH BARS.
2. PROVIDE ADDITIONAL REINFORCING AS DETAILED ABOVE FOR EACH MAT OF STEEL IN AFFECTED WALLS.
3. THIS DETAIL APPLIES TO ALL OPENINGS IN CONCRETE WALLS UNLESS DETAILED OTHERWISE ON THE PLANS.

OPENING IN CONCRETE WALL | 01
3/4" = 1'-0" | AQS5.3

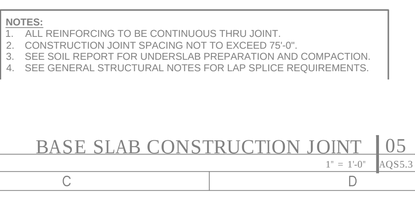


NOTES:
1. PROVIDE CORNER BARS AS SHOWN, MATCH HORIZONTAL WALL REINFORCING (SIZE AND SPACING). SEE GENERAL STRUCTURAL NOTES FOR LAP SPLICE REQUIREMENTS.
2. TERMINATE HORIZONTAL WALL REINFORCING 2" CLEAR FROM END OF WALL (TYPICAL U.N.O.).
3. TERMINATE VERTICAL WALL REINFORCING 2" CLEAR FROM INSIDE CORNER FACE (TYPICAL U.N.O.).

CONC. WALL CORNER REINF. - MID-DEPTH | 03
3/4" = 1'-0" | AQS5.3

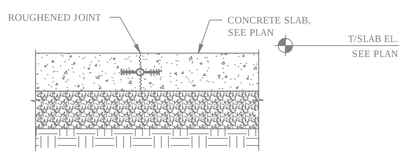


CONC. WALL CORNER REINF. - EACH FACE | 02
3/4" = 1'-0" | AQS5.3



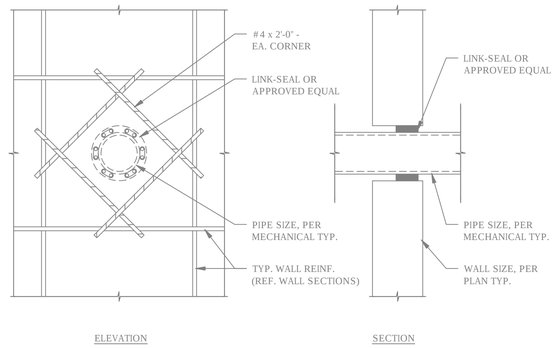
NOTES:
1. SAWCUT JOINT AS SOON AS POSSIBLE WITHOUT RAVELING THE EDGE OF CONCRETE (NOT TO EXCEED 12 HOURS AFTER POUR).
2. CONTRACTION JOINT SPACING NOT TO EXCEED 75'-0".
3. PRIOR TO SEALING JOINT, PREPARE JOINT PER SEALANT MANUFACTURER'S RECOMMENDATIONS.
4. SEE SOIL REPORT FOR UNDERSLAB PREPARATION AND COMPACTION.

BASE SLAB CONTRACTION JOINT | 04
1" = 1'-0" | AQS5.3

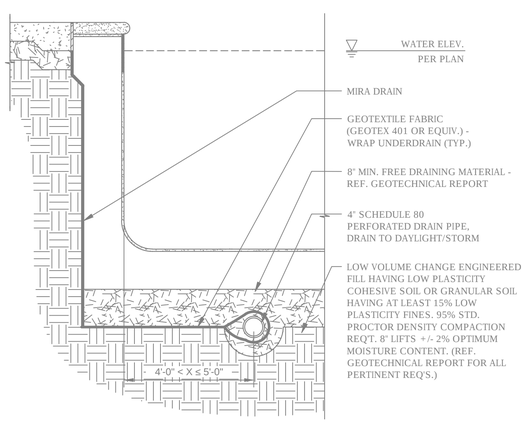


NOTES:
1. ALL REINFORCING TO BE CONTINUOUS THRU JOINT.
2. CONSTRUCTION JOINT SPACING NOT TO EXCEED 75'-0".
3. SEE SOIL REPORT FOR UNDERSLAB PREPARATION AND COMPACTION.
4. SEE GENERAL STRUCTURAL NOTES FOR LAP SPLICE REQUIREMENTS.

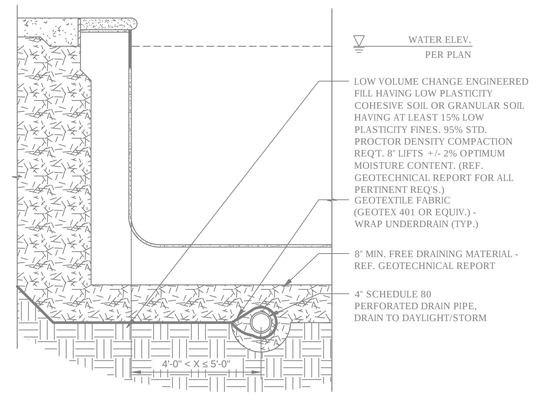
BASE SLAB CONSTRUCTION JOINT | 05
1" = 1'-0" | AQS5.3



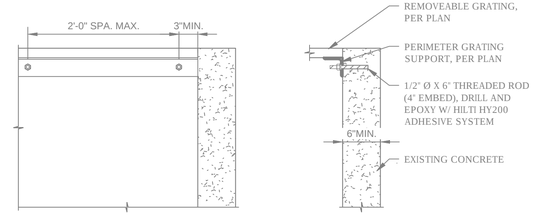
WATERTIGHT PIPE PENETRATION IN WALL | 06
1" = 1'-0" | AQS5.3



SLAB CAULK JOINT | 07
3" = 1'-0" | AQS5.3

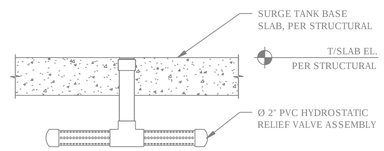


BACKFORMED WALL DRAINAGE | 09
3/4" = 1'-0" | AQS5.3



GRATING SUPPORT | 10
1" = 1'-0" | AQS5.3

SOIL FORMED WALL DRAINAGE | 08
3/4" = 1'-0" | AQS5.3



NOTES:
1. COORDINATE LOCATION OF VALVE SURGE TANK CONTRACTOR.
2. INSTALL VALVE ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS.

HYDROSTATIC RELIEF VALVE ASSEMBLY | 11
1" = 1'-0" | AQS5.3

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JOB NO: FtM20D000

DPW
FORT MCCOY, WI

MARK	DATE	MOD #	MOD REQUEST # - DESCRIPTION

REPAIR BUILDING 1122
FITNESS CENTER
FORT McCOY, WISCONSIN

Designed by: USAQUATICS, INC.
Drawn by: MAB
Checked by:
Reviewed by: RTS
Submitted by: DPW
Date: 09/15/21
Rev.:
Work Order No 1185
Project Number ES 1200324

FORT McCOY
DIRECTORATE OF PUBLIC WORKS
2171 SCHUH AVE.
FORT MCCOY, WI 54656

TYPICAL DETAILS - STRUCTURAL - MISC.

SHEET NUMBER:
AQS5.3

SHEET 116 of 116

Plot date: