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CONSTRUCTION OF EAST HIGHWAY GARAGE - SALT STORAGE FACILITY (BID PACKAGE A) AND MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

CONSTRUCTION DOCUMENTS - (BID PACKAGE B)

BID NO.
313083

DORSCHNER ASSOCIATES
13020-00

INDEX OF DRAWINGS

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

GENERAL

G100	COVER SHEET
G101	SYMBOLS AND ABBREVIATIONS
G102	LIFE SAFETY PLAN

CIVIL / LANDSCAPE

C000	EXISTING CONDITIONS
C100	SITE GRADING PLAN
C200	SITE UTILITIES
C300	SITE LAYOUT
C500	SITE PLANTING
C600	SITE AND PLANTING DETAILS
C601	SITE AND PLANTING DETAILS

ARCHITECTURAL

A100	EXTERIOR ELEVATIONS
A101	EXTERIOR ELEVATIONS
A200	FIRST FLOOR PLAN
A201	ROOF PLAN
A210	ENLARGED FLOOR PLANS
A300	FIRST FLOOR REFLECTED CEILING PLAN
A400	OVERALL SECTIONS
A500	EXTERIOR WALL SECTIONS
A501	EXTERIOR WALL SECTIONS
A502	EXTERIOR WALL SECTIONS
A503	EXTERIOR WALL SECTIONS
A600	EXTERIOR DETAILS
A601	EXTERIOR DETAILS
A602	EXTERIOR DETAILS
A603	EXTERIOR DETAILS
A604	EXTERIOR DETAILS
A605	EXTERIOR DETAILS
A606	EXTERIOR DETAILS
A607	MECHANICAL SCREEN
A608	MECHANICAL SCREEN SOUTH
A609	EXTERIOR DETAILS
A700	BORROWED LIGHT ELEVATIONS
A701	DOOR AND FRAME ELEVATIONS AND SCHEDULE
A702	DOOR AND WINDOW FRAME DETAILS
A703	DOOR AND WINDOW FRAME DETAILS
A800	INTERIOR ELEVATIONS
A801	INTERIOR ELEVATIONS
A820	INTERIOR SECTIONS
A821	INTERIOR SECTIONS
A822	INTERIOR SECTIONS
A830	INTERIOR DETAILS
A831	INTERIOR DETAILS
A832	INTERIOR DETAILS
A835	STAIR ELEVATIONS AND DETAILS
A850	PARTITION TYPES
A851	PARTITION TYPES
A900	FIRST FLOOR FINISH PLAN
A901	ILLUSTRATIVE FURNITURE PLAN
A910	SIGNAGE

LABORATORY

Q000	AUTOPSY SUITE ABBREVIATIONS
Q001	AUTOPSY SUITE CASEWORK LEGEND
Q210	ENLARGED FLOOR PLAN
Q211	ENLARGED FLOOR PLAN
Q212	ENLARGED CASEWORK CONCRETE PLAN
Q213	ENLARGED CASEWORK CONCRETE PLAN
Q800	AUTOPSY ELEVATIONS
Q820	AUTOPSY DETAILS
Q821	AUTOPSY DETAILS

STRUCTURAL

S000	STRUCTURAL NOTES & SCHEDULES
S001	STRUCTURAL SCHEDULES
S100	FOUNDATION PLAN
S200	ROOF FRAMING PLAN
S201	MISCELLANEOUS FRAMING PLANS
S202	PV SUPPORT FRAME FRAMING PLAN
S300	FOUNDATION DETAILS
S301	FOUNDATION DETAILS
S400	FRAMING DETAILS
S401	FRAMING DETAILS
S402	FRAMING DETAILS
S403	FRAMING DETAILS
S410	STRUCTURAL ELEVATIONS AND DETAILS

FIRE PROTECTION

F000	FIRE PROTECTION SYMBOLS, ABBREVIATIONS, NOTES, AND DETAILS
F200	FIRE PROTECTION FIRST FLOOR PLAN

PLUMBING

P000	PLUMBING SYMBOLS, ABBREVIATIONS, AND CALCULATIONS
P100	PLUMBING UNDERFLOOR PLAN
P200	PLUMBING FIRST FLOOR PLAN
P400	PLUMBING DETAILS
P700	PLUMBING SANITARY WASTE AND VENT ISOMETRICS
P701	PLUMBING PROCESS WASTE AND VENT ISOMETRICS
P702	PLUMBING DOMESTIC WATER ISOMETRICS
P900	PLUMBING SCHEDULES

HEATING, VENTILATING, AND AIR CONDITIONING

M000	HVAC SYMBOLS AND ABBREVIATIONS
M200	HVAC FIRST FLOOR PLAN
M201	HVAC ROOF PLAN AND DETAILS
M300	HVAC PIPING FIRST FLOOR AND PENTHOUSE PLANS
M301	HVAC RADIANT PIPING FIRST FLOOR PLAN
M400	HVAC SECTIONS
M401	HVAC ENLARGED PLANS AND SECTIONS
M500	HVAC DETAILS
M600	HVAC PIPING DETAILS
M601	HVAC PIPING DETAILS
M800	HVAC HOT WATER SYSTEM SCHEMATIC
M900	HVAC SCHEDULES
M901	HVAC SCHEDULES
M902	HVAC SCHEDULES

ELECTRICAL

E001	ELECTRICAL SITE PLAN
E100	LIGHTING PLAN
E101	POWER / SYSTEMS PLAN
E102	ROOF ELECTRICAL PLAN
E103	ENLARGED PLANS - 911 CENTER AND IT ROOM
E200	DETAILS
E201	DETAILS
E300	POWER RISER
E301	PHOTOVOLTAIC RISER DIAGRAM
E302	TELECOMMUNICATIONS RISER DIAGRAM
E400	SCHEDULES
E401	SCHEDULES
E402	SCHEDULES
E403	SCHEDULES

DATE: 05.12.15

ABBREVIATIONS

AB	- ANCHOR BOLT
AC	- AIR CONDITIONING
ACC	- ACCESSIBLE
ACOUS	- ACOUSTICAL
AD	- AREA DRAIN
ADD	- ADDITIONAL
ADJ	- ADJUSTABLE
AFF	- ABOVE FINISH FLOOR
AGGR	- AGGREGATE
ALT	- ALTERNATE
ALUM	- ALUMINUM
ANCH	- ANCHOR
ANNO	- ANODIZED
AP	- ACCESS PANEL
APC	- ACOUSTICAL PANEL CEILING
APPD	- APPROVED
APPROX	- APPROXIMATE
ARCH	- ARCHITECTURAL
ATC	- ACOUTSTICAL TILE CEILING
AUTO	- AUTOMATIC
AV	- AUDIO VISUAL
BEJ	- BRICK EXPANSION JOINT
BD	- BOARD
BLDG	- BUILDING
BLK	- BLOCK
BM	- BEAM
BOT	- BOTTOM
BRK	- BRICK
BSMT	- BASEMENT
BT	- BOLT
BUR	- BUILT-UP ROOFING
CAB	- CABINET
CAT	- CATEGORY
CB	- CATCH BASIN
CBD	- CHALK BOARD
CBU	- CEMENTITIOUS BACKER UNIT
CEM	- CEMENT
CER	- CERAMIC
CG	- CORNER GUARD
CH	- CHILLER
CHAN	- CHANNEL
CHW	- CLOTHES HOOK MOUNTED ON WALL
CI	- CAST IRON
CIP	- CAST-IN-PLACE
CJ	- CONTROL JOINT / CONSTRUCTION JOINT
CL	- CENTER LINE
CLG	- CEILING
CLR	- CLEAR
CMU	- CONCRETE MASONRY UNIT
CNTR	- COUNTER
CO	- CLEANOUT
COL	- COLUMN
COMPART	- COMPARTMENT
CONC	- CONCRETE
COND	- CONDITION
CONN	- CONNECTION
CONT	- CONTINUOUS
CONTR	- CONTRACTOR
COORD	- COORDINATE
CORR	- CORRIDOR
CT	- CERAMIC TILE / COOLING TOWER
CTR	- CENTER
CTSK	- COUNTER SUNK
CW	- COLD WATER (PIPING)
D	- DEEP, DEPTH
DA	- DISABLED
DBL	- DOUBLE
DEG	- DEGREE
DEMO	- DEMOLITION
DEPT	- DEPARTMENT
DET	- DETAIL
DF	- DRINKING FOUNTAIN
DIA	- DIAMETER
DIFF	- DIFFUSER
DIM	- DIMENSION
DIS	- DISABLED
DISP	- DISPENSER
DMPF	- DAMPPROOFING
DMT	- DEMOUNTABLE
DN	- DOWN
DO	- DOOR OPENING
DP	- DIMENSION POINT
DPTN	- DEMOUNTABLE PARTITION
DR	- DOOR
DRN	- DRAIN
DS	- DOWNSPOUT
DW	- DISHWASHER
DWG	- DRAWING
DWR	- DRAWER
(E)	- EXISTING
E	- EAST
EA	- EACH
EB	- EXPANSION BOLT
ED	- ELECTRIC HAND DRYER
EIFS	- EXTERIOR INSULATION AND FINISH SYSTEM
EFS	- EXTERIOR FINISH SYSTEM
EJ	- EXPANSION JOINT
EL	- ELEVATION
ELEC	- ELECTRICAL
ELEV	- ELEVATOR
EMERG	- EMERGENCY
ENCLO	- ENCLOSURE
EP	- ELECTRICAL PANELBOARD
EQ	- EQUAL
EQUIP	- EQUIPMENT
ESCAL	- ESCALATOR
ETD	- ELECTRIC TOWEL DISPENSER
EWC	- ELECTRIC WATER COOLER
EXH	- EXHAUST
EXP	- EXPANSION
EXIST	- EXISTING
EXT	- EXTERIOR
FA	- FIRE ALARM
FB	- FACE BRICK
FC	- FACE
FD	- FLOOR DRAIN
FDC	- FIRE DEPARTMENT CONNECTION
FND	- FOUNDATION
FE	- FIRE EXTINGUISHER
FEC	- FIRE EXTINGUISHER CABINET
FF&E	- FURNITURE, FINISHES & EQUIPMENT
FFEL	- FINISH FLOOR ELEVATION
FH	- FLAT HEAD
FHC	- FIRE HOSE CABINET
FIN	- FINISH
FIXT	- FIXTURE
FL	- FLOOR
FLASH	- FLASHING
FLUOR	- FLUORESCENT
FO	- FACE OF
FP	- FIRE PROTECTION
FPG	- FIREPROOFING
FR	- FRAME
FS	- FOLDING SHOWER SEAT
FT	- FEET
FRTW	- FIRE RETARDANT TREATED WOOD
FTG	- FOOTING
FURN	- FURNITURE
FURR	- FURRING
FWC	- FABRIC WALLCOVERING
FWP	- FABRIC WRAPPED PANEL
G	- GROUND
GA	- GAUGE / GAGE
GALV	- GALVANIZED
GB	- GRAB BAR
GC	- GENERAL CONTRACT(OR)
GRC	- GLASS FIBER REINFORCED CONCRETE
GRG	- GLASS FIBER REINFORCED GYPSUM
GL	- GLASS
GR	- GRADE
GRD	- GROUND
GYPBD	- GYPSUM WALLBOARD
H	- HIGH / HEIGHT
HB	- HOSE BIB
HC	- HOLLOW CORE
HCP	- HANDICAPPED
HDW	- HARDWARE
HDWD	- HARDWOOD
HS	- HEAT STRENGTHEND (GLASS)
HM	- HOLLOW METAL (STEEL FRAME)
HNDRL	- HANDRAIL
HO	- HOLD-OPEN
HORIZ	- HORIZONTAL
HPT	- HIGH POINT
HRC	- HOSE REEL CABINET
HR	- HOUR
HT	- HEIGHT
HVAC	- HEATING, VENTILATION, AIR CONDITIONING
HW	- HOT WATER
HYDR	- HYDRAULIC
ID	- INSIDE DIAMETER
IN	- INCH
INCAND	- INCANDESCENT
INCL	- INCLUDED / INCLUDING
INFO	- INFORMATION
INSUL	- INSULATION
INT	- INTERIOR
INTERM	- INTERMEDIATE
INV	- INVERT
IPS	- INTERNATIONAL PIPE STANDARD
IRMA	- INVERTED ROOF MEMBRANE ASSEMBLY
JAN	- JANITOR
JC	- JANITOR'S CLOSET
JST	- JOIST
JT	- JOINT
K	- KIP (1,000 LBF)
KPL	- KICK PLATE
KG	- KILOGRAM
KIT	- KITCHEN
KO	- KNOCKOUT
L	- LONG OR LITER (METRIC DOCS)
LAB	- LABORATORY
LDG	- LANDING
LAM	- LAMINATE / LAMINATION
LAV	- LAVATORY
LB	- POUND
LF	- LINEAR FOOT
LKR	- LOCKER
LLH	- LONG LEG HORIZONTAL
LLV	- LONG LEG VERTICAL
LN	- LINE
LT	- LIGHT
LPT	- LOW POINT
M	- METER, MIRROR
MACH	- MACHINE
MAINT	- MAINTENANCE
MAS	- MASONRY
MATL	- MATERIAL
MAX	- MAXIMUM
MB	- MACHINE BOLT
MBL	- MARBLE
MDF	- MEDIUM DENSITY FIBERBOARD
MEP	- MECHANICAL, ELECTRICAL, PLUMBING
MDO	- MEDIUM DENSITY OVERLAY PLYWOOD
MECH	- MECHANICAL
MEMB	- MEMBRANE
MET	- METAL
MEZZ	- MEZZANINE
MFR	- MANUFACTURER
MH	- MANHOLE
MIN	- MINIMUM
MISC	- MISCELLANEOUS
MM	- MILLIMETER
MO	- MASONRY OPENING
MS	- MACHINE SCREW
MTD	- MOUNTED
MTG	- MOUNTING
MTL	- METAL
MULL	- MULLION
N	- NORTH
NA	- NOT APPLICABLE
NC	- NOISE CRITERIA
NIC	- NOT IN CONTRACT
NO	- NUMBER
NOM	- NOMINAL
NTS	- NOT TO SCALE
OA	- OUTSIDE AIR
OC	- ON CENTER
OCEW	- ON CENTER EACH WAY
OD	- OUTSIDE DIAMETER/DIMENSION
OFCI	- OWNER FURNISHED, CONTR INSTALLED
OFOI	- OWNER FURNISHED, OWNER INSTALLED
OFF	- OFFICE
OH	- OVER HEAD
OPH	- OPPOSITE HAND
OPNG	- OPENING
OPP	- OPPOSITE
OPPHD	- OPPOSITE HAND
ORD	- OVERFLOW ROOF DRAIN
OUTS	- OUTSIDE
OVHD	- OVERHEAD
P	- PAINT
PAV	- PAVING
PARTN	- PARTITION
PATD	- PAPER TOWEL DISPENSER
PBD	- PARTICLEBOARD
PC	- PRECAST CONCRETE
PDF	- POWER DRIVEN FASTENER
PERF	- PERFORATED
PERIM	- PERIMETER
PERP	- PERPENDICULAR
PF	- POINT OF INTERSECTION
PL	- PLATE
PLAM	- PLASTIC LAMINATE
PLAS	- PLASTER
PLBG	- PLUMBING
PLF	- POUNDS PER LINEAR FOOT
PLYWD	- PLYWOOD
PNL	- PANEL
POL	- POLISHED
PR	- PAIR
PREFAB	- PREFABRICATED
PROJ	- PROJECT
PSF	- POUNDS PER SQUARE FOOT
PT	- POINT
PTD	- PAINTED
PTN	- PARTITION
PTR	- PAPER TOWEL RECEPTACLE
Q	- QUARRY TILE
QTY	- QUANTITY
(R)	- RELOCATED
R	- RADIUS OR RISER (PIPING)
RA	- RETURN AIR
RAD	- RADIUS
RB	- RESILIENT BASE
RCP	- REFLECTED CEILING PLAN
RD	- ROOF DRAIN
RECOM	- RECOMMENDED
RECPT	- RECEPTACLE
REC	- RECESSED
REF	- REFERENCE
REFL	- REFLECTED / REFLECTIVE / REFLECT
REFR	- REFRIGERATOR
REG	- REGISTER
REINF	- REINFORCED / REINFORCING
REL	- RELOCATE
REM	- REMOVABLE
REQ	- REQUIRE / REQUIRED
RESIL	- RESILIENT
REV	- REVISION / REVISED
RM	- ROOM
RO	- ROUGH OPENING
RTD	- RATED
RTG	- RATING
RWL	- RAIN WATER LEADER
S	- SOUTH
SA	- SUPPLY AIR
SAN	- SANITARY
SC	- SOLID CORE
SCHED	- SCHEDULE
SD	- STORM DRAIN / SOAP DISPENSER
SDL	- LAVATORY MOUNTED SOAP DISPENSER
SECT	- SECTION
STS	- SELF TAP METAL SCREW
SF	- SQUARE FEET/FOOT
SH	- SPRINKLER HEAD
SHT	- SHEET
SHR	- SHOWER
SIM	- SIMILAR
SLS	- SOLID SURFACE
SM	- SHEET METAL OR SQUARE METER (METRIC DOCS)
SND	- SANITARY NAPKIN DISPENSER
SNL	- SANITARY NAPKIN DISPOSAL
SP	- STANDPIPE
SPEC	- SPECIFICATION
SPR	- SPRINKLER
SPKR	- SPEAKER
SQ	- SQUARE
SSE	- STRUCTURE SLAB ELEVATION
SS	- STAINLESS STEEL
SSK	- SERVICE SINK
STA	- STATION
STD	- STANDARD
ST	- STEEL
STLJST	- STEEL JOIST
STOR	- STORAGE
STRG	- STRINGER
STRL	- STRUCTURAL
STRUC	- STRUCTURAL
SUBCAT	- SUBCATEGORY
SUSP	- SUSPENDED
SYMM	- SYMMETRICAL
SYS	- SYSTEM
T&G	- TONGUE AND GROOVE
T	- TREAD / THERMOSTAT
TB	- TOWEL BAR
TC	- TOP OF CURB
TCONC	- TOP OF CONCRETE
TD	- TOWEL DISPENSER
TEL	- TELEPHONE OR TELECOM
TEMP	- TEMPERATURE
TER	- TERRAZZO
TGB	- TOGGLE BOLT
THK	- THICKNESS
THRES	- THRESHOLD
THRU	- THROUGH
TKBD	- TACKBOARD
TMPD	- TEMPERED
TO	- TOP OF (SEE OTHER WORD)
TOS	- TOP OF SLAB, TOP OF STRUCTURE
TOSTL	- TOP OF STEEL
TP	- TOP OF PAVEMENT
TPH	- TOILET PAPER HOLDER
TRACT	- TRACTION
TV	- TELEVISION
TW	- TOP OF WALL
TYP	- TYPICAL
UNFIN	- UNFINISHED
UON	- UNLESS OTHERWISE NOTED
UR	- URINAL
VAC	- VENTILATION AND AIR CONDITIONING
VCT	- VINYL COMPOSITION TILE
VERT	- VERTICAL
VEST	- VESTIBULE
VIF	- VERIFY IN FIELD
VR	- VAPOR RETARDER
VT	- VINYL TILE
VWC	- VINYL WALL COVERING
W	- WITH
W	- WIDE, WIDTH/WEST
WC	- WATER CLOSET
WD	- WOOD
WDS	- WOOD SCREW
WDW	- WINDOW
W/O	- WITHOUT
WP	- WATERPROOFING
WPM	- WATERPROOF MEMBRANE
WPT	- WORK POINT
WR	- WATER RESISTENT/REPELLANT, WASTE RECEPTACLE
WS	- WEATHERSTRIPPING
WSCT	- WAINSCOT
WT	- WEIGHT
WW	- WALL TO WALL

HATCH PATTERNS / MATERIAL SYMBOLS:

TYPICAL HATCH PATTERN / MATERIAL NOTES. UNLESS REQUIRED OTHERWISE:
1. PATTERNS ARE WITHOUT LIMITATION, ILLUSTRATIVE OF MATERIAL SCOPE, WHERE SHOWN
2. NOT ALL SCOPE IS SHOWN WITH PATTERNS OR SYMBOLS. COORDINATE WITH DRAWING AND SPECIFICATION.

- ALUMINUM
- BATT INSUL
- BATT INSUL FIRESAFING
- BRICK
- CONCRETE MASONRY UNIT
- CONCRETE MASONRY UNIT GROUND FACED
- CONCRETE
- EARTH
- EXPANSION JOINT
- GRAITE
- GRAVEL
- GROUT
- SEALANT & BACKER ROD
- GWB
- LIMESTONE
- PLASTIC MATRIX
- PLYWOOD LARGE SCALE
- PLYWOOD SMALL SCALE
- PRECAST CONCRETE
- RIGID INSULATION
- SAND
- STAINLESS STEEL
- STEEL
- WOOD
- WOOD BLOCKING CONTINUOUS
- WOOD BLOCKING DISCONTINUOUS
- SLGF OR LGSF

TOILET ACCESSORY SCHEDULE:

ABBREVIATION	STD. MOUNTING HEIGHT
AP	SEE PLAN AND ELEVATION
CHW	(1) 5'-0" A.F.F., (1)4'-0" A.F.F. SEE ELEVATIONS FOR OTHER LOCATIONS
EWC	(1) 7'-11" A.F.F. TO SPOUT OUTLET, (1) 3'-5" A.F.F. TO SPOUT OUTLET
ED	TOP @ 41.25" MALE, 36.25" FEMALE
ETD	48" AFF TO OPERATING PARTS
FD	SEE PLUMBING SPECIFICATION
FS	TOP @ 17-19" A.F.F.
GB8	CENTER @ 2-10" A.F.F., 3'-2" A.F.F. IN SHOWER
GB18	HORIZ. CENTER @ 2'-10" A.F.F., VERT. 2'-4" @ B.O. BAR HORIZ. CENTER @ 2'-2" A.F.F., VERT. 3'-7" @ B.O. BAR IN SHOWER
GB36	CENTER @ 2'-10" A.F.F., 3'-2" A.F.F. IN SHOWER
GB48	CENTER @ 2'-10" A.F.F., 3'-2" A.F.F. IN SHOWER
GB60	CENTER @ 2'-10" A.F.F., 3'-2" A.F.F. IN SHOWER
LAV	TYPICAL TOP @ 2'-10" A.F.F. PRESCHOOL TOP @ 1'-6" A.F.F.
M	BOTTOM @ 3'-4" MAX A.F.F.
SD	TOP @ 48" A.F.F.
SDL	LAVATORY MOUNTED
SND	48" A.F.F. MAX TO OPERATING COMPONENTS (SEE PLAN)
SNL	TOP @ 15" MIN, 48" MAX A.F.F.
TD	48" A.F.F. MAX. TO OPERATING COMPONENTS (SEE PLAN)
TPH	OUTLET 18" MIN, 48" MAX A.F.F., 7-9" IN FRONT OF WC TO CL (SEE PLAN)
WC	SEE PLUMBING
WR	TOP @41-45" A.F.F. MAX., BASED ON SPECIFIED PRODUCT (SEE PLAN)

GENERAL ARCHITECTURAL SYMBOLS:

- DETAIL REFERENCE — SHEET REFERENCE - TOP OF BUBBLE; DETAIL NUMBER - BOTTOM OF BUBBLE
- WALL SECTION REFERENCE — SHEET REFERENCE - TOP OF BUBBLE; DETAIL NUMBER - BOTTOM OF BUBBLE
- BUILDING SECTION REFERENCE — SHEET REFERENCE - TOP OF BUBBLE; DETAIL NUMBER - BOTTOM OF BUBBLE
- CALL OUT REFERENCE — SHEET REFERENCE - TOP OF BUBBLE; DETAIL NUMBER - BOTTOM OF BUBBLE
- INTERIOR ELEVATION REFERENCE
- EXTERIOR ELEVATION REFERENCE
- PARTITION TYPE - SEE SHEET A850
- NEW WALLS
- WINDOW TYPES - SEE A100 - A101 FOR EXTERIOR WINDOWS AND A200 FOR INTERIOR WINDOWS
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- ODOR CONTROL WALL
- WIRE MESH PARTITION TO UNDERSIDE OF STRUCTURE
- NEW DOOR SWING WITH NUMBER - SEE SHEETS A200-A210
- EXISTING DOOR SWING
- REQUEST FOR INFORMATION (RFI) SYMBOL AND ADDENDUM (ADD) SYMBOL
- CONSTRUCTION BULLETIN (CB) SYMBOL
- REVISION CLOUD
- FX-1 — RECESSED FIRE EXTINGUISHER
- FX-2 — SURFACE MOUNT FIRE EXTINGUISHER
- FX-3 — SURFACE MOUNT FIRE EXTINGUISHER, HOOK MOUNTED
- x70-1 — SPOT ELEVATION (FEET-INCHES)
- x70.83 — SPOT ELEVATION (FEET-DECIMAL)
- OFFICE B.12 — ROOM NAME AND NUMBER - SEE ROOM FINISH SCHEDULE ON SHEET A900
- KEY NOTE
- DEMOLITION

ACCESSIBILITY SYMBOLS:

- ADA ACCESSIBLE ROUTE
- ADA ACCESSIBLE ENTRANCE/ EXIT OR PATH
- BUILDING EXIT AND EXIT CAPACITY

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ISSUE

01.12.15	CONSTRUCTION DOCUMENTS

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
SYMBOLS AND ABBREVIATIONS

DATE
01.12.15

LIFE SAFETY SYMBOLS KEY

B OCCUPANCY

S-2 OCCUPANCY

ONE HOUR FIRE SEPARATION WALL

TWO HOUR FIRE SEPARATION WALL

XXX OCCUPANTS — IDENTIFIES EXIT DOOR AND OCCUPANT LOAD

LIFE SAFETY INFORMATION

SUMMARY:	THIS DANE COUNTY MEDICAL EXAMINER FACILITY IS A 23,700 SQUARE FOOT AUTOPSY SUITE INCLUDING A COOLER AND FREEZER WITH ASSOCIATED OFFICE, CONFERENCE, VIEWING AND STORAGE AREAS. THIS BUILDING ALSO INCLUDES A GARAGE FOR EMERGENCY EVENT VEHICLE STOARAGE AND MEDCAL EXAMINER DROP OFF AND PICK UP.
CODES:	PROJECT DESIGNED PER IBC 2009 WITH WISCONSIN MODIFICATIONS
OCCUPANCY:	BUSINESS GROUP B: 16,720 SQUARE FOOT LOW HAZARD STORAGE GROUP S-2: 6,981 SQUARE FOOT
CONSTRUCTION TYPE:	TYPE II B NO EXTERIOR BEARING WALLS
FIRE PROTECTION:	BUSINESS GROUP B FULLY SPRINKLED PER NFPA 13 LOW HAZARD STORAGE GROUP S-2
GENERAL NOTE:	BOTTLED WATER DISPENSER WILL BE PROVIDED BY OWNER

1 2 2.6 3 3.1 3.3 3.6 4 4.3 4.7 5 5.6 5.9 6 6.8 7 8 9 10 11 12 13 14

AA A A.2 A.5 B B.1 B.8 C C.1 D D.1 D.2 D.9 E E.8 F F.5 G H J

VESTIBULE 1000 — 53 OCCUPANTS
LOBBY 1001
CONFERENCE ROOM 126
ME OFFICE 115
UNISEX TOILET 104
FAMILY VIEWING 101
MENS TOILET 103
WOMENS TOILET 102
ADMINISTRATION 105
DIRECTOR 116
COPY / ADMINISTRATION 127
ENVELOPE DESIGNED TO 165 MPH CRITERIA
RECORDS 107
DEPUTY OFFICE 117
CONFERENCE ROOM 106
CORRIDOR 1002
CORRIDOR 1011
CORRIDOR 1003
CORRIDOR 1004
CORRIDOR 1005
MLI 118
MLI 119
MLI 120
MLI 121
MLI 122
MLI 123
MLI 124
OPEN OFFICE 112
BREAK ROOM 109
STORAGE 106A
ELECTRICAL ROOM 110
JANITOR 111
REF.
DECOMPOSITION AUTOPSY 132
DICTATION 130A
BODY VIEWING 130B
AUTOPSY VIEWING 131
AUTOPSY 130
JANITOR 130D
CART STORAGE 130C
FREEZER 130F
BODY COOLER 130E
MEP 145
TISSUE RECOVERY 144D
CORRIDOR 1007
VESTIBULE 136
GENERAL LAB 133
BODY / RECEIVING PROCESS 144
TISSUE STORAGE 134
X-RAY 141
CONTROL ROOM 141A
CART CLEAN 144A
LAUNDRY 144B
MORGUE TECH 144C
STORAGE 143
VESTIBULE 1010
MENS LOCKER 137
WOMENS LOCKER 138
O1 — 71 OCCUPANTS — 53 OCCUPANTS
CHEMICAL STORAGE 151
MAXIMUM CHEMICAL QUANTITY NOT TO EXCEED QUANTITIES INDICATED IN 2009 IBC TABLE 3.07.1(1) AND 3.07.1(2)
GARAGE 150
MLI CLOSET STORAGE 152
BIO WASTE 153
71 OCCUPANTS — 53 OCCUPANTS — 02
CORRIDOR 1008
CHILLER ROOM 154
64 OCCUPANTS
ENVELOPE DESIGNED TO 165 MPH CRITERIA
LONG TERM STORAGE 130A
PROPERTY 130B
911 CENTER 155
CORRIDOR 1012
CORRIDOR 1013
BREAK OUT 156
UNISEX TOILET 158
UNISEX TOILET 157
11 OCCUPANTS
IT ROOM 140
ELECTRICAL ROOM 139
3.8 4.4 5.2 6.5 7.5

1 FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

NORTH

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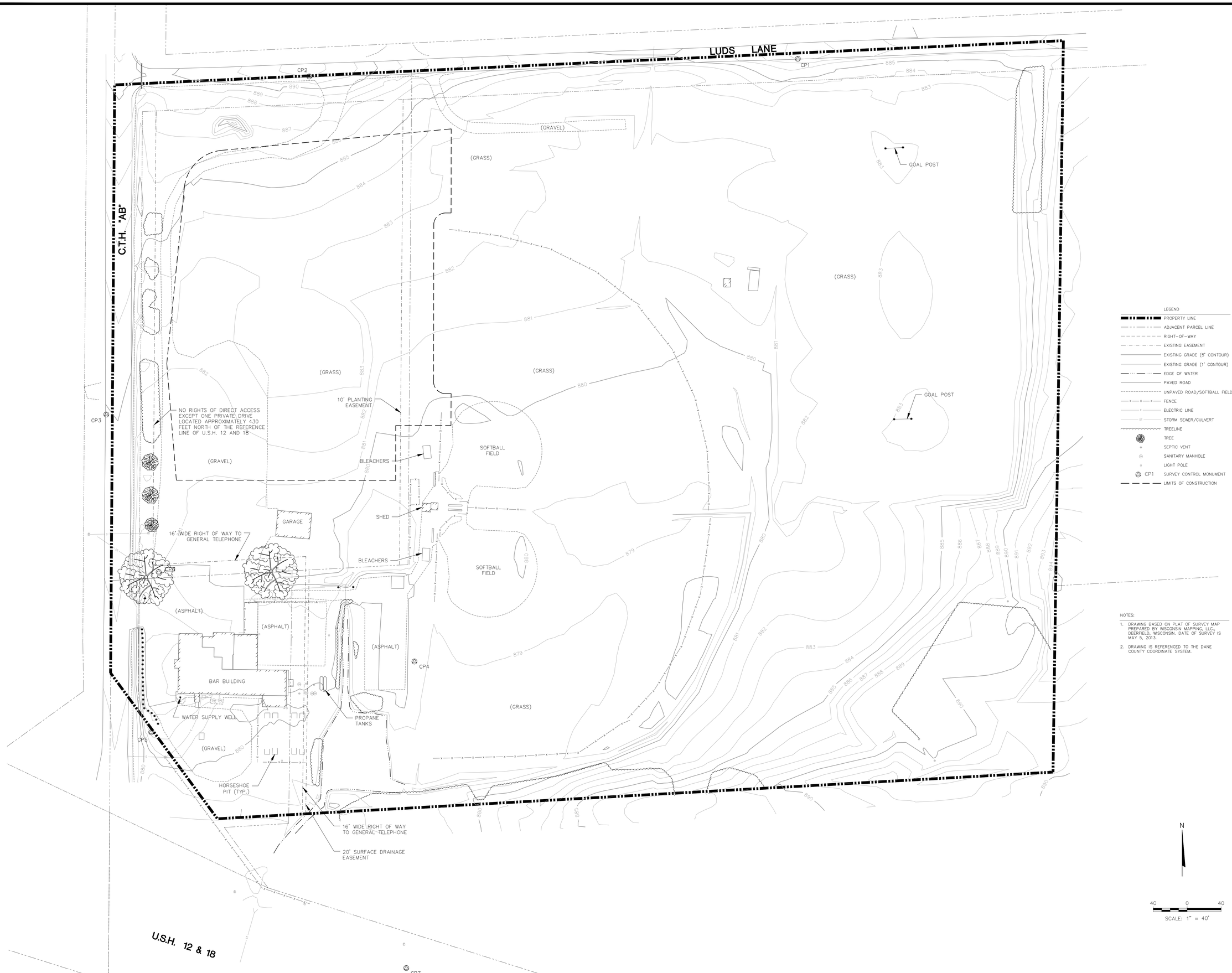
01.12.15 CONSTRUCTION DOCUMENTS

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
LIFE SAFETY PLAN

DATE
01.12.15



NOTES:

1. DRAWING BASED ON PLAT OF SURVEY MAP PREPARED BY WISCONSIN MAPPING, LLC., DEERFIELD, WISCONSIN. DATE OF SURVEY IS MAY 5, 2013.
2. DRAWING IS REFERENCED TO THE DANE COUNTY COORDINATE SYSTEM.

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SCS ENGINEERS
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SCS Project No. 25213160.00

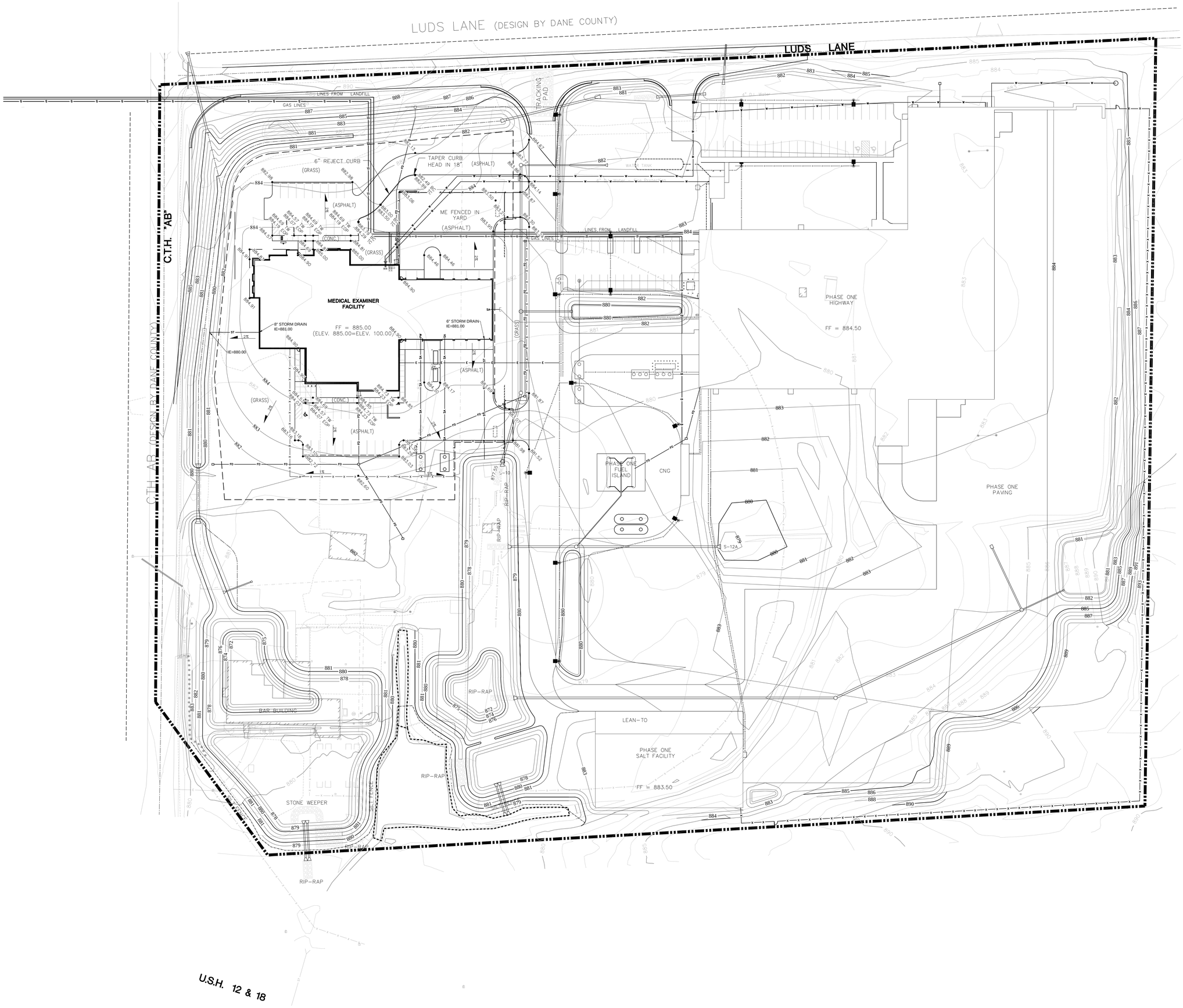
PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
EXISTING CONDITIONS

DATE
01.12.15

C000



LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY
- EXISTING EASEMENT
- EXISTING GRADE (5' CONTOUR)
- EXISTING GRADE (1' CONTOUR)
- EXISTING PAVED ROAD
- EXISTING UNPAVED ROAD
- EXISTING FENCE
- LIMITS OF CONSTRUCTION
- 883 PROPOSED GRADE (1' CONTOUR)
- 880 PROPOSED GRADE (5' CONTOUR)
- 884.30 PROPOSED SPOT ELEVATION
- E PROPOSED ELECTRIC
- FO PROPOSED FIBER OPTIC
- G PROPOSED GAS
- SA PROPOSED SANITARY
- ST PROPOSED STORM
- W PROPOSED WATER
- HWS/HWS/HWS PROPOSED GLYCOL
- X X X PROPOSED FENCE
- EOP EDGE OF PAVEMENT
- TW TOP OF WALK
- TC TOP OF CURB
- BC BOTTOM OF CURB

N

40 0 40

SCALE: 1" = 40'

INFORMATIONAL BID PACKAGE B SCOPE OF WORK:

BID PACKAGE B INCLUDES THE AREA OF SITE GRADING DEFINED ON C100. BID PACKAGE A SCOPE IS SHOWN FOR REFERENCE. NOTE BID PACKAGE A INCLUDES THE CLEARING AND ROUGH GRADING WITHIN THIS BOUNDARY.

GENERAL NOTES:

1. EXISTING CONDITIONS BASED ON PLAT OF SURVEY MAP PREPARED BY WISCONSIN MAPPING, LLC., DEERFIELD, WISCONSIN. DATE OF SURVEY IS MAY 5, 2013.
2. DRAWING IS REFERENCED TO THE DANE COUNTY COORDINATE SYSTEM.
3. PROPOSED GRADES ARE FINISH GRADE.
4. REFER TO LANDSCAPE PLAN FOR VEGETATED RESTORATION.

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SCS Project No. 25213160.00

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

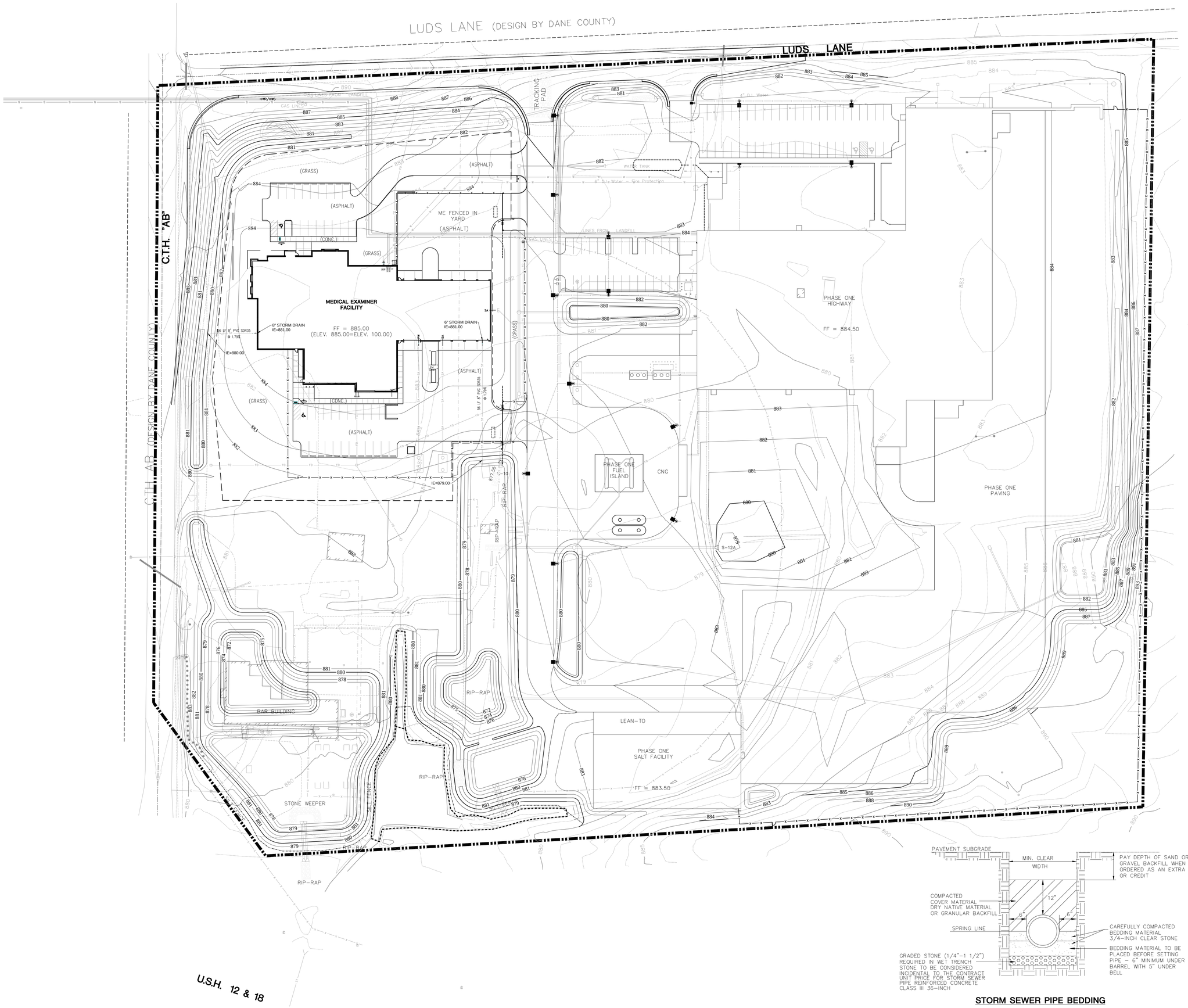
BID NO.
313083

DRAWING
SITE GRADING PLAN

DATE
01.12.15

C100

I:\25213160\Drawings-General\GEC\P.dwg , 1/13/2015 4:47:09 PM



STORM SEWER PIPE BEDDING

LEGEND

- PROPERTY LINE
- ADJACENT PARCEL LINE
- RIGHT-OF-WAY
- EXISTING EASEMENT
- EXISTING GRADE (5' CONTOUR)
- EXISTING GRADE (1' CONTOUR)
- EXISTING PAVED ROAD
- EXISTING UNPAVED ROAD
- FENCE
- E — ELECTRIC LINE
- ST — STORM SEWER/CULVERT
- E — PROPOSED ELECTRIC
- FO — PROPOSED FIBER OPTIC
- G — PROPOSED GAS
- SA — PROPOSED SANITARY
- ST — PROPOSED STORM
- W — PROPOSED WATER
- HWR/HWS — PROPOSED GLYCOL
- PW — PROPOSED PROCESSED MEDICAL WASTE

INFORMATIONAL BID PACKAGE B SCOPE OF WORK:

BID PACKAGE B INCLUDES UTILITIES WITH 5'9" OF THE MEDICAL EXAMINER'S BUILDING. REFER TO BID PACKAGE A FOR CONTINUATION OF UTILITIES BEYOND THIS POINT. BID PACKAGE A UTILITIES ARE SHOWN FOR REFERENCE.

NOTES:

1. EXISTING CONDITIONS BASED ON PLAT OF SURVEY MAP PREPARED BY WISCONSIN MAPPING, LLC., DEERFIELD, WISCONSIN. DATE OF SURVEY IS MAY 5, 2013.
2. DRAWING IS REFERENCED TO THE DANE COUNTY COORDINATE SYSTEM.

N

40 0 40

SCALE: 1" = 40'

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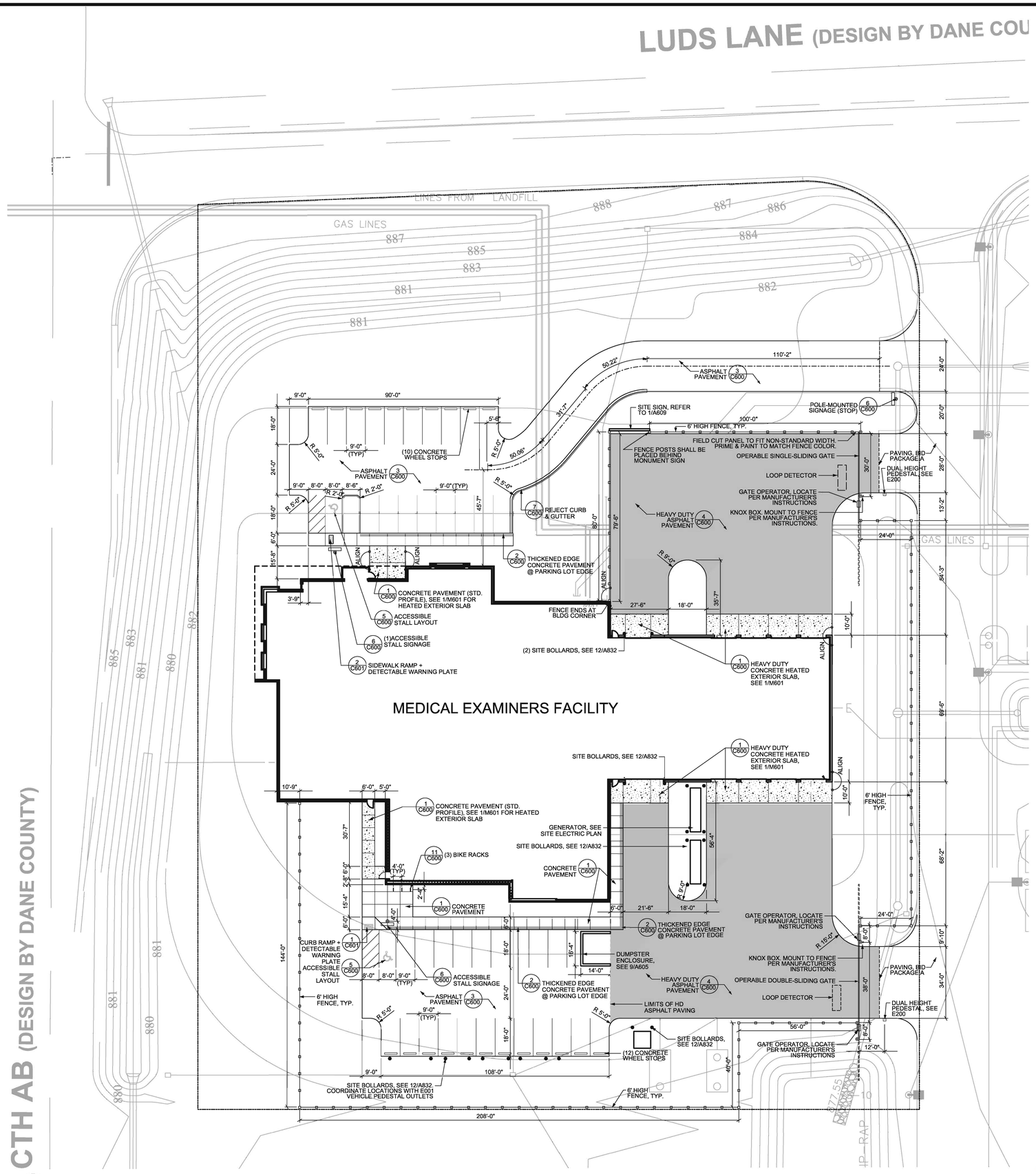
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
SITE UTILITIES

DATE
01.12.15



NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY SURVEY INFORMATION PRIOR TO START OF CONSTRUCTION AND REPORT ANY DISCREPANCIES.

CONTRACTOR SHALL CONTACT DIGGER'S HOTLINE TO LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO START OF CONSTRUCTION.

2. FENCE POST SPACING & DIMENSIONS ARE NOMINAL. VERIFY ALL DIMENSIONS WITH FENCING MANUFACTURER PRIOR TO INSTALLATION.

3. CONTRACTOR TO VERIFY LOCATION & DIMENSIONS OF GATE POSTS, GATE OPERATOR, GATE CARD READER & LOOP DETECTION SYSTEM WITH OWNER & MANUFACTURER'S SHOP DRAWINGS & INSTRUCTIONS PRIOR TO INSTALLATION.

4. INFORMATIONAL BID PACKAGE B SCOPE OF WORK:
BID PACKAGE A GRADING IS SHOWN FOR REFERENCE. ALSO REFER TO C100 FOR BID PACKAGE B GRADING BOUNDARIES. SEE DRAWING FOR THE EXTENT OF BID PACKAGE A PAVING NOTED.

LEGEND

HEAVY DUTY ASPHALT PAVING

HEATED CONCRETE SLAB

SCALE: 1" = 20' at 30" x 42"

1/C300 SITE LAYOUT PLAN
SCALE: 1"=20'-0" (@ 30X42 SHEET)

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MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
SITE LAYOUT

DATE
01.12.15

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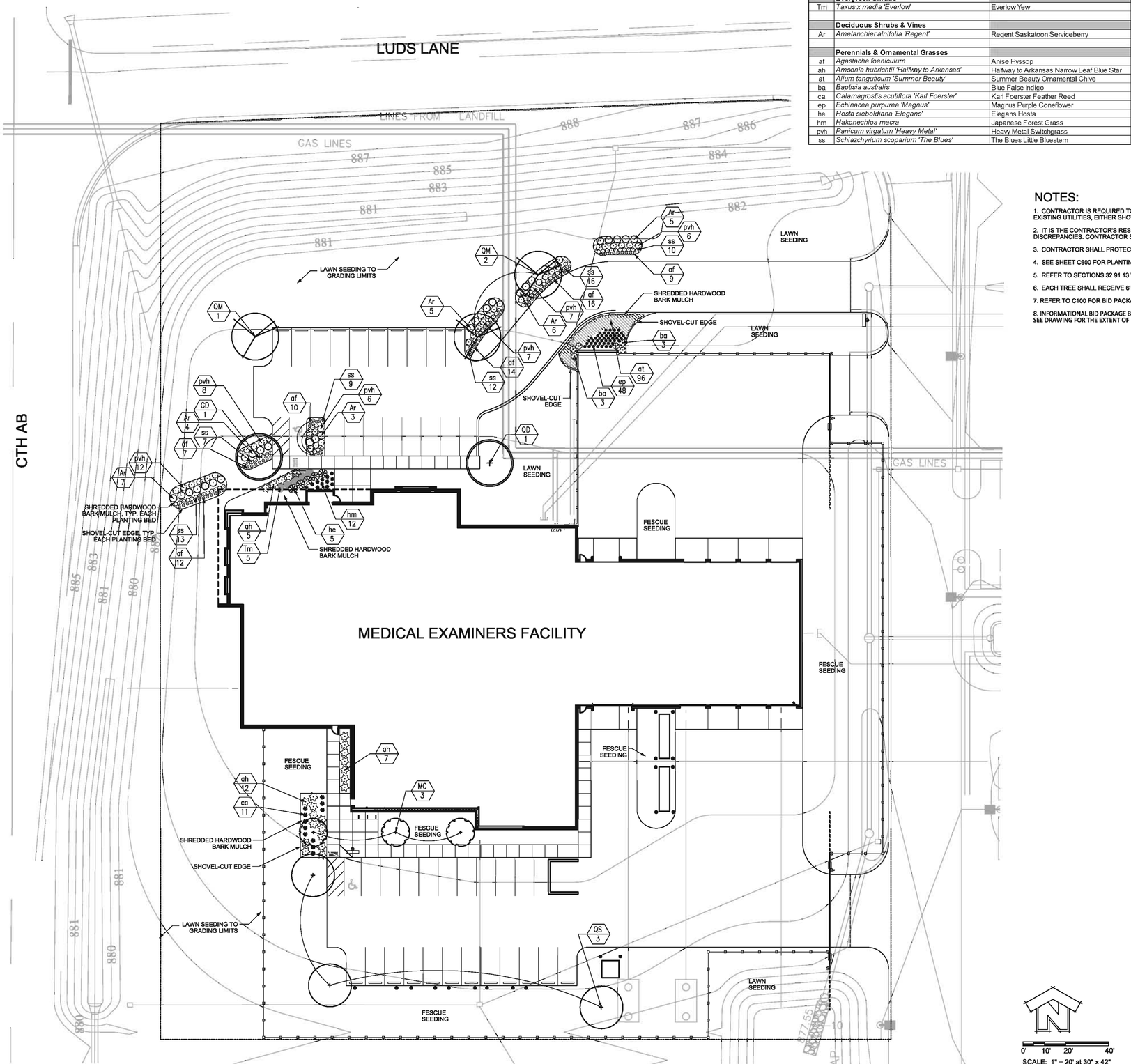
-WATER MAIN, SANITARY SEWER, AND STORM SEWER WERE NOT MARKED BY UW PLUMBING. THESE LOCATIONS BASED ON OLD MARKS AND PIPES RUNNING TO AND FROM MANHOLES.

C300

Plant List

Key	Botanical Name	Common Name	Quantity	Size	Spec	Comments	Mature Size
	Deciduous Trees						
GD	*Gymnocladus dioicus 'Espresso'*	Espresso Kentucky Coffeetree	2	2" Cal.	B&B	Single, straight leader; match specimens; branching shall start at 5'-0" min.	60' ht x 50' sp
MC	Malus 'Coralburst'	*Coralburst Crabapple*	3	1.5" Cal.	B&B		15' ht x 15' sp
QS	*Quercus x schuetti*	Shuette Oak	3	2" Cal.	B&B	Single, straight leader; match specimens; branching shall start at 5'-0" min.	60' ht x 60' sp
QM	*Quercus macrocarpa*	Bur Oak	3	2" Cal.	B&B	Single, straight leader; match specimens; branching shall start at 5'-0" min.	60' ht x 60' sp
	Evergreen Shrubs						
Tm	*Taxus x media 'Everlow'*	Everlow Yew	5	24" Ht.	B&B	Single, straight leader; match specimens	2-3' ht x 4-5' sp
	Deciduous Shrubs & Vines						
Ar	*Amelanchier alnifolia 'Regent'*	Regent Saskatoon Serviceberry	30	24" Ht.	B&B	Space 4'-0" o.c.	4-6' ht x 4-6' sp
	Perennials & Ornamental Grasses						
af	*Agastache foeniculum*	Anise Hyssop	58	1 gal.	Cont.	Space 2'-0" o.c.	2.5'ht x 1.5-2' sp
ah	*Amsonia hubrichtii 'Halfway to Arkansas'*	Halfway to Arkansas Narrow Leaf Blue Star	24	1 gal.	Cont.	Space 3'-0" o.c.	3' ht x 2.5-3' sp
at	*Allium tanguticum 'Summer Beauty'*	Summer Beauty Ornamental Chive	96	1 gal.	Cont.	Space 1'-6" o.c.	1.5' ht x 1' sp
ba	*Baptisia australis*	Blue False Indigo	6	1 gal.	Cont.	Space 3'-0" o.c.	3' ht x 2.5-3' sp
ca	*Calamagrostis acutiflora 'Karl Foerster'*	Karl Foerster Feather Reed	11	1 gal.	Cont.	Space 4'-0" o.c.	4' ht x 2.5-3' sp
ep	*Echinacea purpurea 'Magnus'*	Magnus Purple Coneflower	48	1 gal.	Cont.	Space 2'-0" o.c.	3' ht x 2.5-3' sp
he	*Hosta sieboldiana 'Elegans'*	Elegans Hosta	5	1 gal.	Cont.	See plan	2.5'ht x 4' sp
hm	*Hakonechloa macra*	Japanese Forest Grass	12	1 gal.	Cont.	Space 2'-0" o.c.	1.5' ht x 1.5' sp
pvh	*Panicum virgatum 'Heavy Metal'*	Heavy Metal Switchgrass	37	1 gal.	Cont.	Space 4'-0" o.c.	3.5' ht x 2.5-3' sp
ss	*Schiazchyrium scoparium 'The Blues'*	The Blues Little Bluestem	67	1 gal.	Cont.	Space 2'-0" o.c.	3' ht x 2.5-3' sp



NOTES:

1. CONTRACTOR IS REQUIRED TO FIELD VERIFY SITE CONDITIONS AND SUBSURFACE UTILITIES PRIOR TO STARTING WORK. ANY DAMAGE CAUSED TO EXISTING UTILITIES, EITHER SHOWN OR NOT, SHALL BE REPAIRED AND PAID FOR AT THE CONTRACTOR'S EXPENSE.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY SURVEY INFORMATION PRIOR TO START OF CONSTRUCTION AND REPORT ANY DISCREPANCIES. CONTRACTOR SHALL CONTACT DIGGER'S HOTLINE TO LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO START OF CONSTRUCTION.
3. CONTRACTOR SHALL PROTECT BENCHMARKS.
4. SEE SHEET C600 FOR PLANTING DETAILS.
5. REFER TO SECTIONS 32 91 13 "SOIL PREPARATION", 32 92 00 "TURF AND GRASSES" AND 32 93 00 "PLANTS" FOR ADDITIONAL INFORMATION.
6. EACH TREE SHALL RECEIVE 6' DIAM BARK MULCH RING @ 3" DEPTH PER PLANTING DETAIL 8/C600.
7. REFER TO C100 FOR BID PACKAGE B GRADING BOUNDARIES.
8. INFORMATIONAL BID PACKAGE B SCOPE OF WORK:
SEE DRAWING FOR THE EXTENT OF BID PACKAGE B GRADING AND SEEDING BOUNDARIES, ALSO REFER TO C100.

0' 10' 20' 40'
SCALE: 1" = 20' at 30" x 42"

1 C500 LANDSCAPE PLAN
SCALE: 1"=20'-0" (@ 30X42 SHEET)

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ISSUE
01.12.15 CONSTRUCTION DOCUMENTS

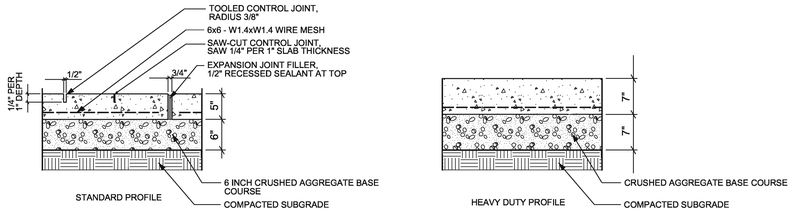
PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3582 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
SITE PLANTING

DATE
01.12.15

C500



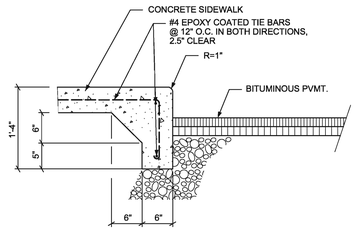
NOTE:
1.MEDIUM BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL

2. SEE LAYOUT PLAN FOR EXPANSION AND CONTROL JOINT SPACING AND PAVING PATTERN.

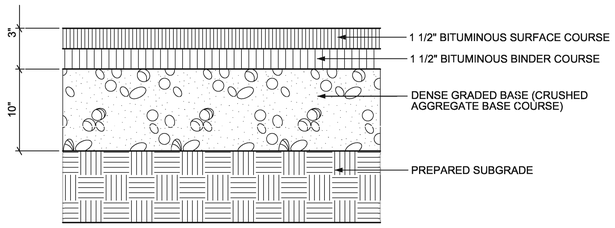
3. PROVIDE EXPANSION JOINTS AT CONNECTIONS TO EXISTING SIDEWALK, CURB RAMPS, AT EITHER END OF FLUSH SIDEWALK FOR ACCESSIBLE STALLS, ALONG CURBS, STAIR LANDINGS, OR OTHER FIXED OBJECTS AND AT 30' MAX. SPACING.

4. SEE 1/M601 FOR HEATED EXTERIOR SLAB DETAIL

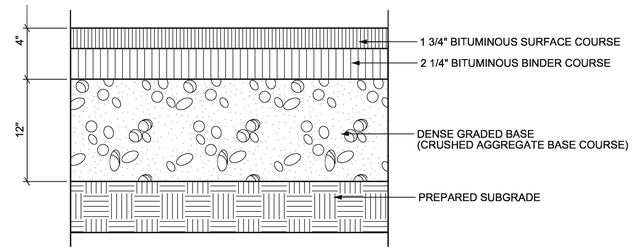
1 C600 CONCRETE PAVEMENT
SCALE: 1"=1'-0"



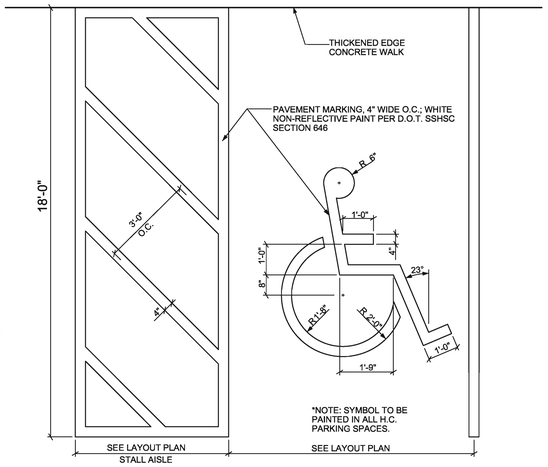
2 C600 THICKENED EDGE CONCRETE PAVEMENT
SCALE: 1"=1'-0"



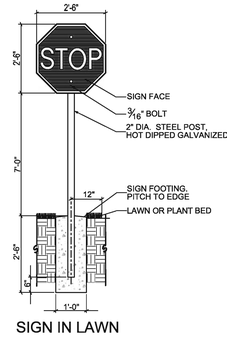
3 C600 ASPHALT PAVEMENT
SCALE: 1"=1'-0"



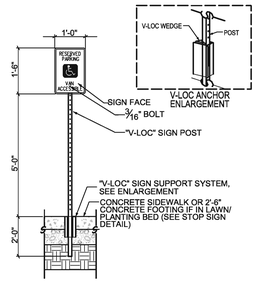
4 C600 HEAVY DUTY ASPHALT PAVEMENT
SCALE: 1"=1'-0"



5 C600 ACCESSIBLE STALL LAYOUT
SCALE: 1/2"=1'-0"

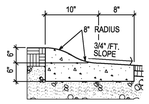


SIGN IN LAWN

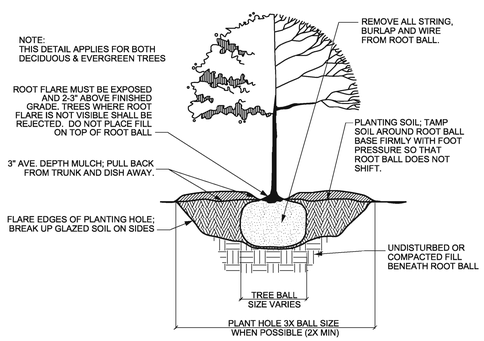


ACCESSIBLE SIGN IN CONCRETE

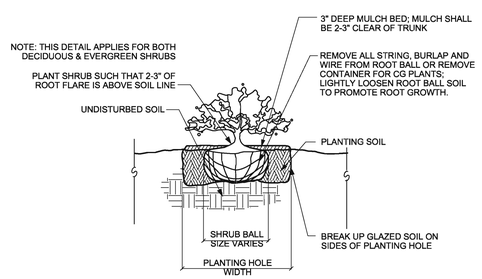
6 C600 POLE-MOUNTED SIGNS
SCALE: 1/2"=1'-0"



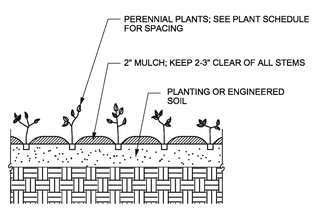
7 C600 REJECT CURB & GUTTER
NTS



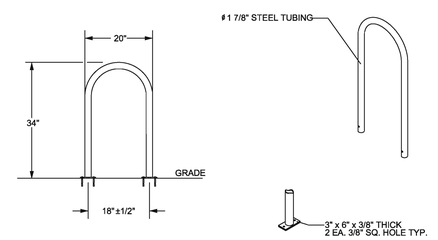
8 C600 TREE PLANTING
SCALE: NTS



9 C600 SHRUB PLANTING
SCALE: NTS



10 C600 PERENNIAL PLANTING
SCALE: NTS



ELEVATION VIEW

SURFACE FLANGE MOUNT (SF) SECTION VIEWS

PRODUCT: U190-IG(SF,SG)
DESCRIPTION: 'U' BIKE RACK
2 BIKE, SURFACE OR IN GROUND MOUNT
DATE: 8-8-14
ENG: SMC

NOTES:
1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. CONSULTANT TO SELECT COLOR(FINISH), SEE MANUFACTURER'S SPECIFICATIONS.
3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.

11 C600 BIKE RACKS
SCALE: 1"=1'-0"

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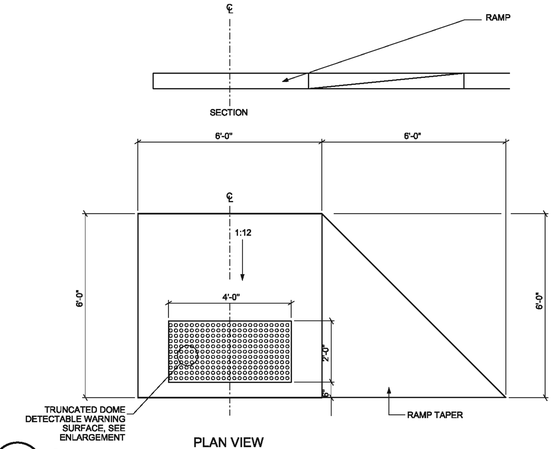
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

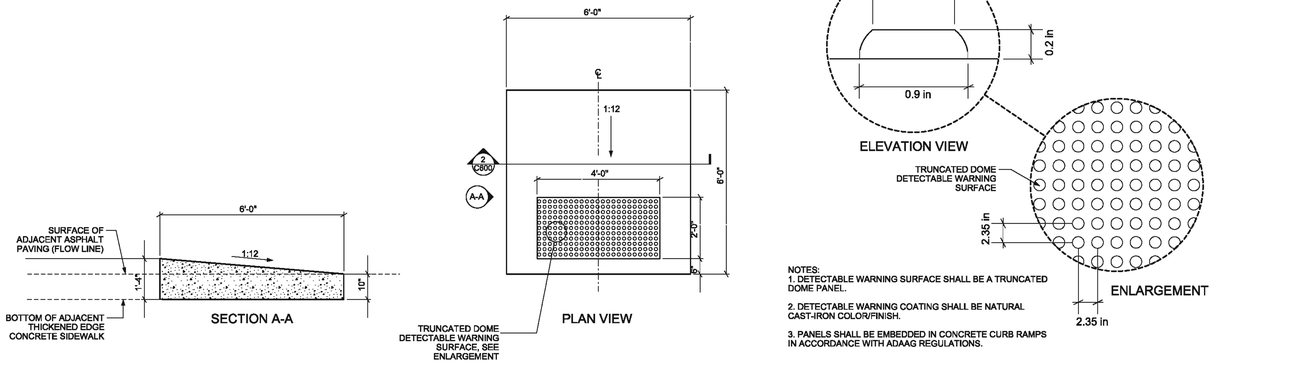
DRAWING
SITE AND PLANTING DETAILS

DATE
01.12.15

C600



1 C601 **CURB RAMP**
SCALE: 1/2"=1'-0"



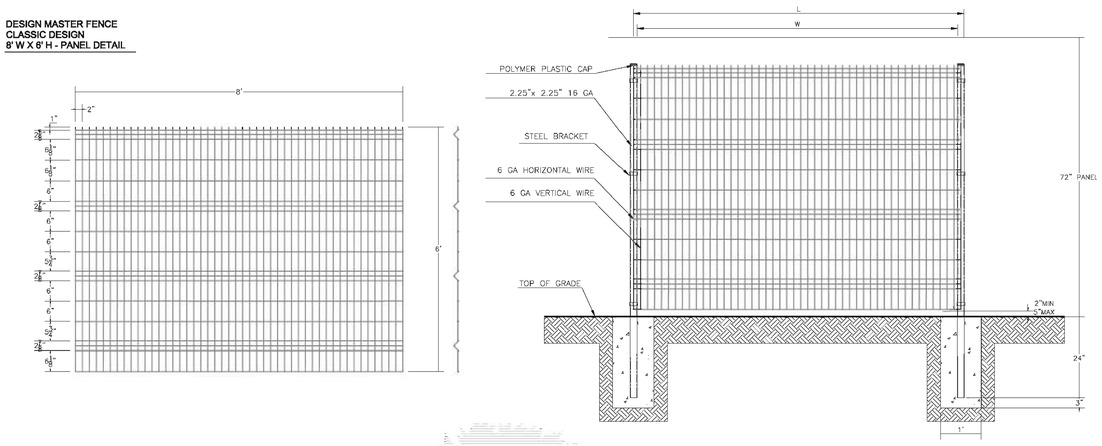
NOTES:
1. DETECTABLE WARNING SURFACE SHALL BE A TRUNCATED DOME PANEL.

2. DETECTABLE WARNING COATING SHALL BE NATURAL CAST-IRON COLOR/FINISH.

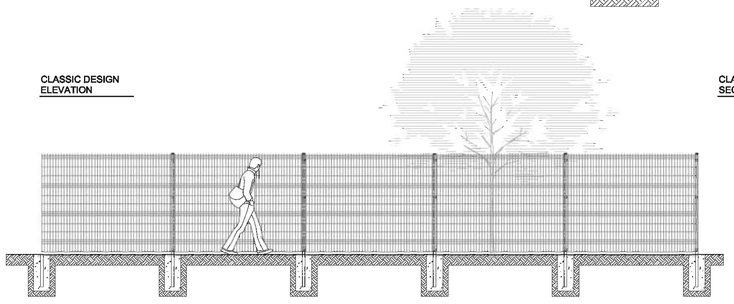
3. PANELS SHALL BE EMBEDDED IN CONCRETE CURB RAMPS IN ACCORDANCE WITH ADAAG REGULATIONS.

2 C601 **SIDEWALK RAMP**
SCALE: 1/2"=1'-0"

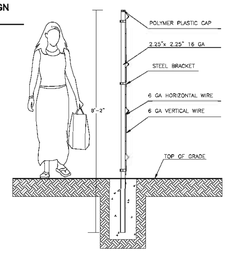
DESIGN MASTER FENCE
CLASSIC DESIGN
8' W X 6' H - PANEL DETAIL



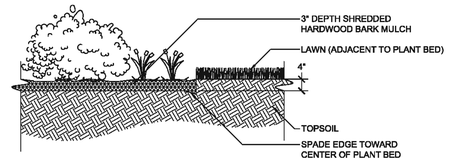
CLASSIC DESIGN
ELEVATION



CLASSIC DESIGN
SECTION



3 C601 **6' HEIGHT FENCE**
N.T.S.



4 C601 **SHOVEL CUT EDGE**
N.T.S.

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01.12.15 CONSTRUCTION DOCUMENTS

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

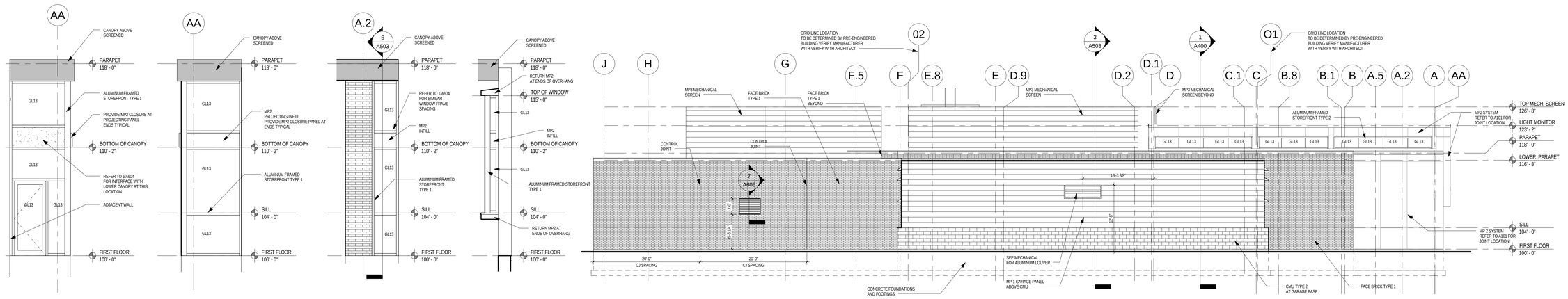
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
SITE AND PLANTING DETAILS

DATE
01.12.15

C601



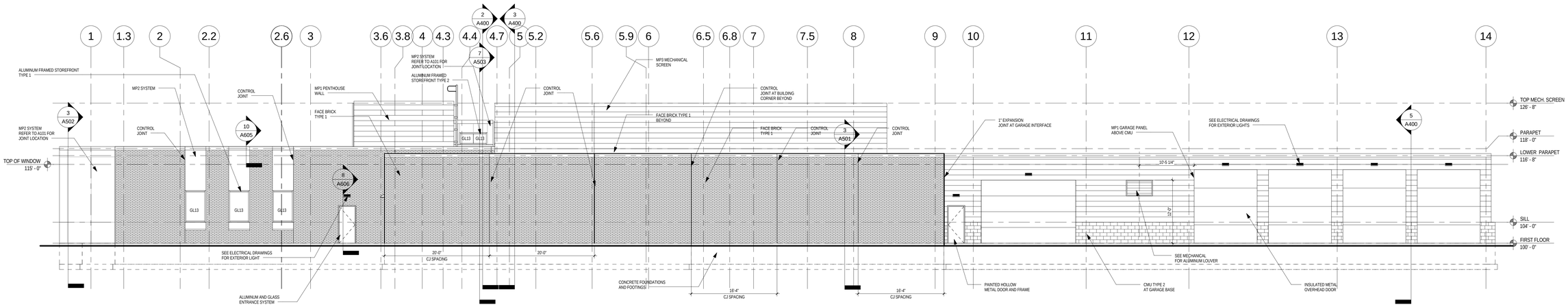
7 ELEVATION 1/4" = 1'-0"

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

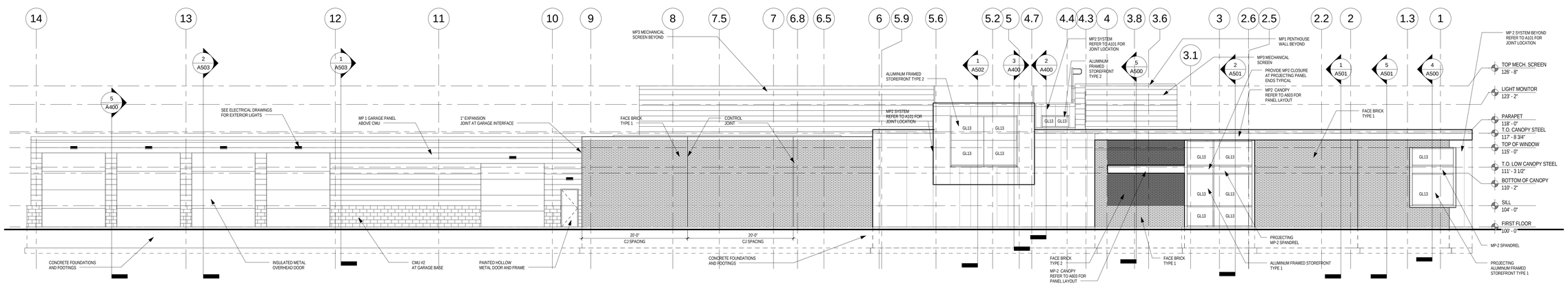
5 ELEVATION 1/4" = 1'-0"

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

3 EAST ELEVATION 1/8" = 1'-0"



2 SOUTH ELEVATION 1/8" = 1'-0"



1 NORTH ELEVATION 1/8" = 1'-0"

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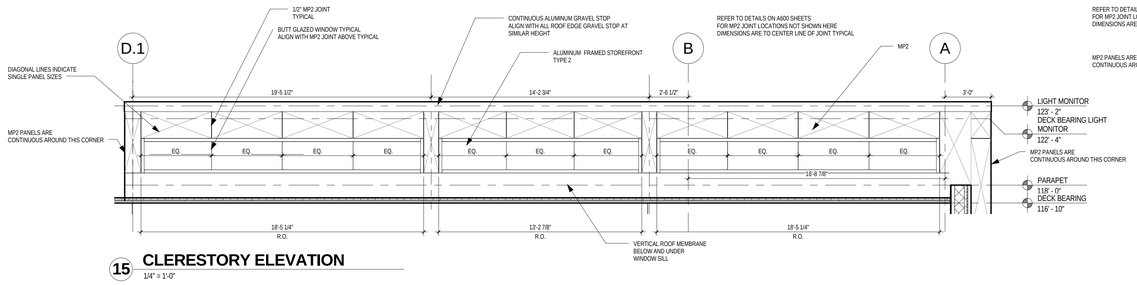
PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

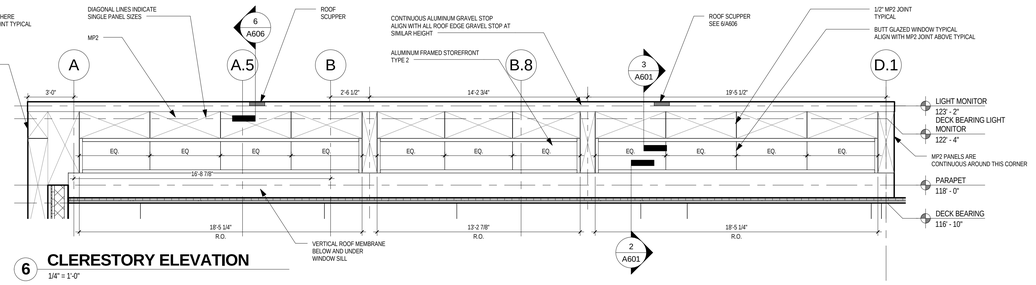
DRAWING
EXTERIOR ELEVATIONS

DATE
01.12.15

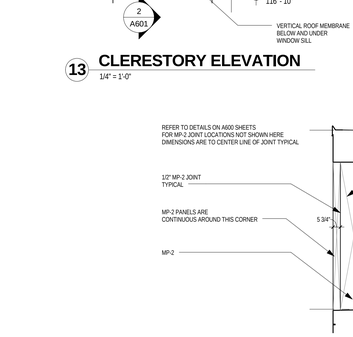
A100



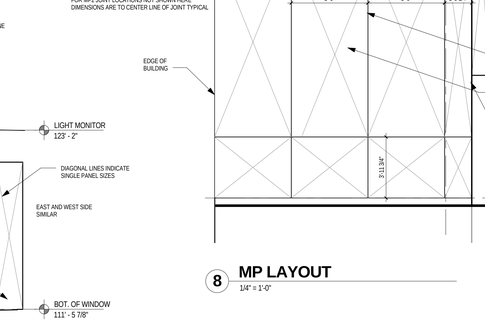
15 CLERESTORY ELEVATION
1/4" = 1'-0"



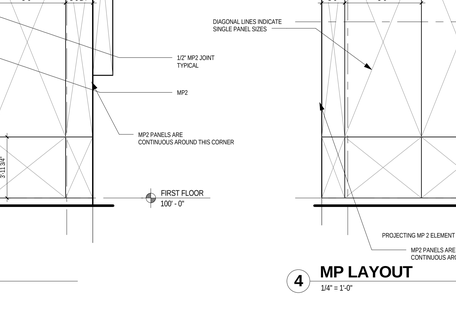
6 CLERESTORY ELEVATION
1/4" = 1'-0"



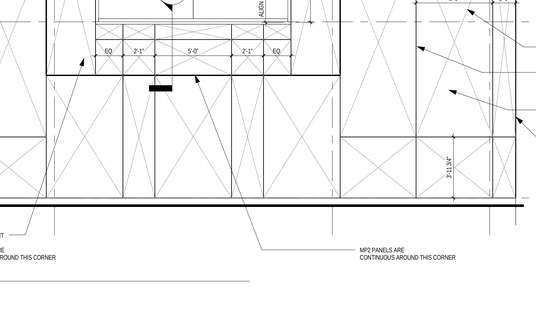
14 CLERESTORY ELEVATION
1/4" = 1'-0"



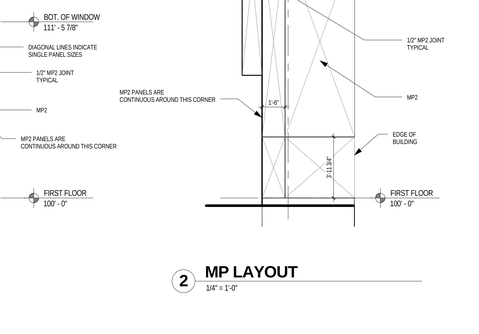
10 CLERESTORY ELEVATION
1/4" = 1'-0"



9 CLERESTORY ELEVATION
1/4" = 1'-0"



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



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

13 CLERESTORY ELEVATION
1/4" = 1'-0"

8 MP LAYOUT
1/4" = 1'-0"

4 MP LAYOUT
1/4" = 1'-0"

2 MP LAYOUT
1/4" = 1'-0"

12 MP LAYOUT
1/4" = 1'-0"

11 MP LAYOUT
1/4" = 1'-0"

7 MP LAYOUT
1/4" = 1'-0"

1 WEST ELEVATION
1/8" = 1'-0"

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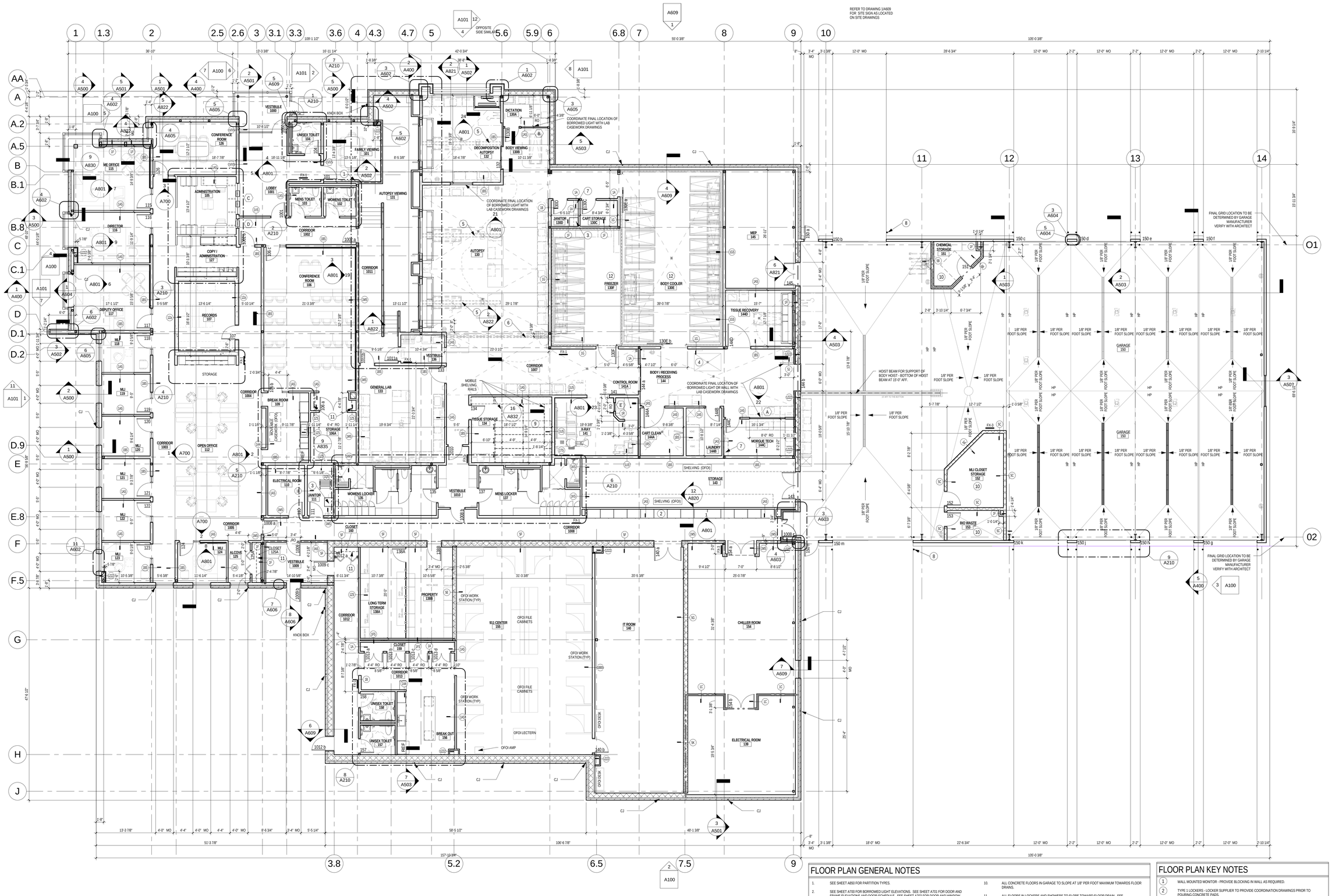
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
EXTERIOR ELEVATIONS

DATE
01.12.15

A101



FLOOR PLAN GENERAL NOTES

1. SEE SHEET A850 FOR PARTITION TYPES.
2. SEE SHEET A700 FOR BORROWED LIGHT ELEVATIONS. SEE SHEET A701 FOR DOOR AND FRAME ELEVATIONS AND DOOR SCHEDULE. SEE SHEET A702 FOR DOOR AND WINDOW FRAME DETAILS.
3. DIMENSIONS ARE TO FACE OF PAINTED SURFACE U.N.O.
4. SEE SHEETS Q000 THRU Q821 FOR AUTOPSY SUITE PLANS AND DETAILS.
5. SEE FINISH PLANS FOR ROOM FINISH INFORMATION
6. MECHANICAL AND ELECTRICAL EQUIPMENT SHOWN HERE FOR REFERENCE ONLY. SEE MEP FOR ADDITIONAL INFORMATION.
7. SEE ENLARGED PLANS FOR DIMENSIONS OF TOILET ROOMS, LOCKER ROOMS, ADMINISTRATIVE AREAS, AND AUTOPSY VIEWING AREA.
8. CJ = REFER TO 3/A606 FOR CONTROL JOINT AND CORNER CAVITY CLOSURE DETAIL. REFER TO BUILDING ELEVATIONS A100 & A101 FOR CORNER JOINT LOCATIONS.
9. SEE SHEETS Q000 THRU Q821 FOR EXTENT AND DETAILS OF WALL PROTECTION SYSTEM.
10. ALL CONCRETE FLOORS IN GARAGE TO SLOPE AT 1/8" PER FOOT MAXIMUM TOWARDS FLOOR DRAINS.
11. ALL FLOORS IN LOCKERS AND SHOWERS TO SLOPE TOWARD FLOOR DRAIN. SEE ARCHITECTURAL PLANS FOR FLOOR DRAIN LOCATIONS.
12. SEAL ALL DUCT AND STRUCTURAL PENETRATIONS INTO THE AUTOPSY SUITE FOR ODOR AND PRESSURIZATION.

FLOOR PLAN KEY NOTES

1. WALL MOUNTED MONITOR - PROVIDE BLOCKING IN WALL AS REQUIRED.
2. TYPE 1 LOCKERS - LOCKER SUPPLIER TO PROVIDE COORDINATION DRAWINGS PRIOR TO POURING CONCRETE PADS.
3. 24" x 24" FLOOR MOUNTED MOP SINK.
4. RECESSED BODY SCALE - SEE Q210 FOR SIZE AND DETAILS.
5. TUBE STEEL OVERHEAD FOR MOUNTING AUTOPSY LIGHTS - BOTTOM OF TUBE AT 10'-8" AFF - SEE STRUCTURAL DRAWINGS FOR TUBE SIZE.
6. HOIST BEAM TO SUPPORT BODY LIFT - BOTTOM OF BEAM AT 10'-2 5/8" AFF - SEE 15 / A832 FOR DETAILS - SEE STRUCTURAL FOR BEAM SIZE
7. 12" WIDE OVERHEAD SHELF
8. 4" DIAMETER CONCRETE FILLED BOLLARDS SEE 12 / A832 FOR DETAILS
9. MOBILE SHELVING SYSTEM WITH RECESSED RAIL - MOBILE SHELVING SUPPLIER TO PROVIDE COORDINATION DRAWINGS PRIOR TO POURING CONCRETE.
10. STORAGE ROOM TO HAVE 4" TOTAL THICKNESS CONCRETE SLAB ABOVE. TOP OF SLAB AT 10'-4" AFF. SEE STRUCTURAL DRAWINGS FOR SUPPORT FRAMING AND DETAILS.
11. COAT HANGER ROD AND SHELF
12. REFER TO "Q" SERIES SHEETS FOR LAYOUT AND DETAILS OF BODY COOLER AND FREEZER

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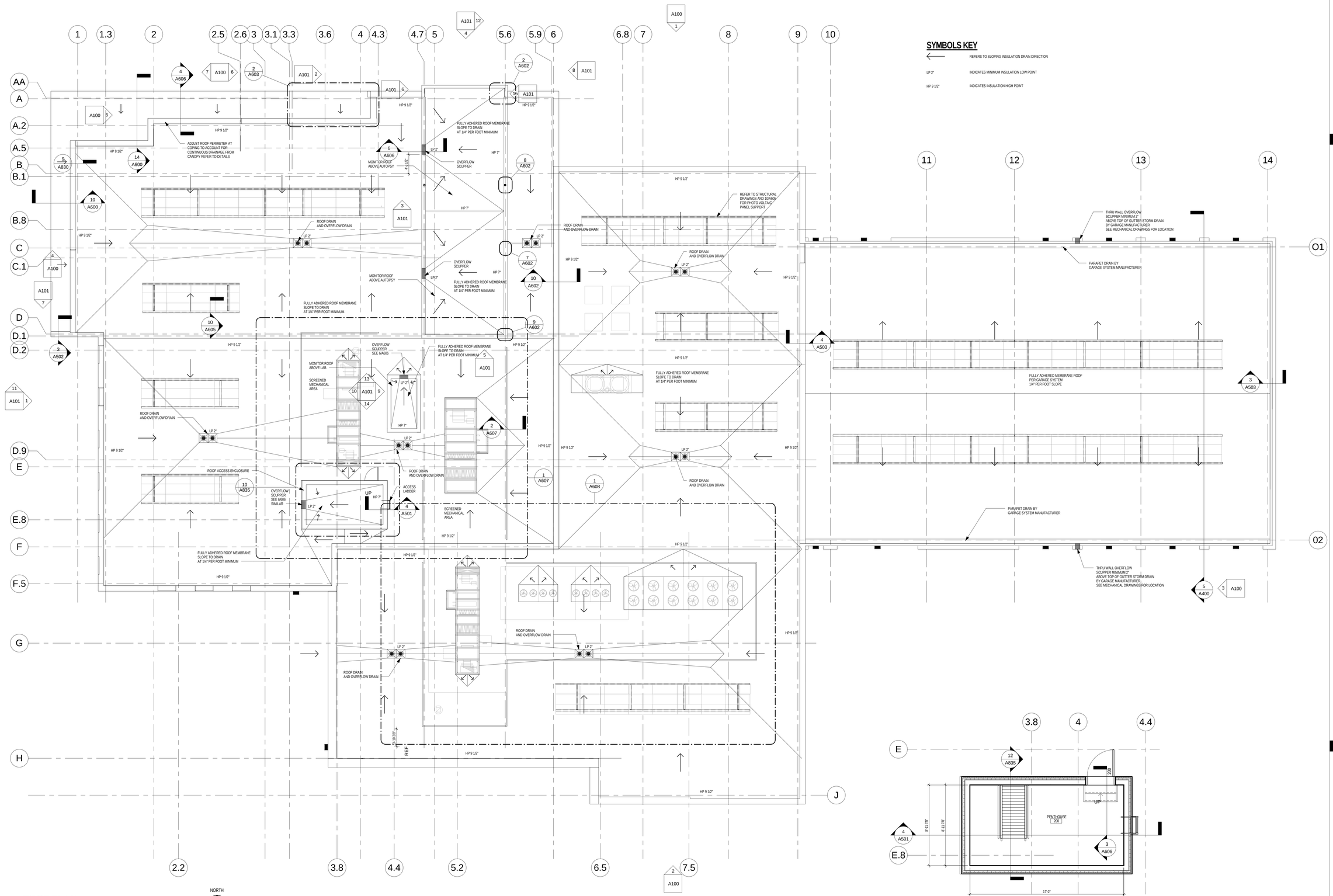
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
FIRST FLOOR PLAN

DATE
01.12.15



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MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
ROOF PLAN

DATE
01.12.15

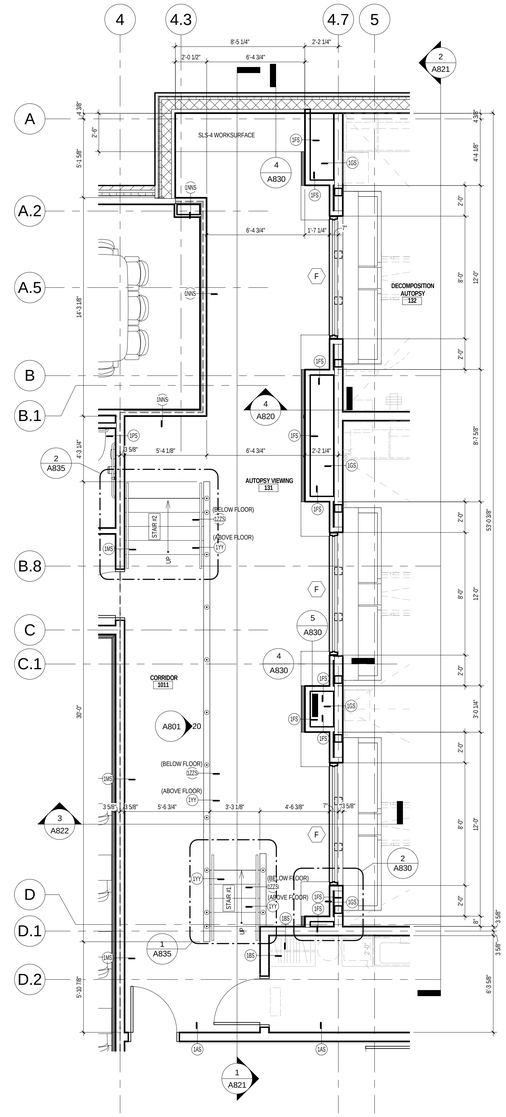
A201

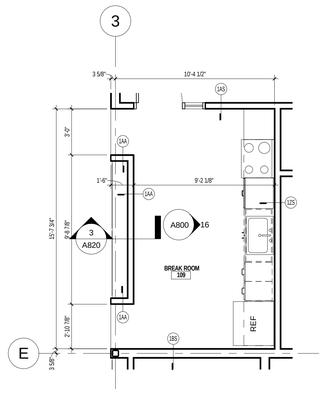
FLOOR PLAN GENERAL NOTES

1. SEE SHEET A850 FOR PARTITION TYPES.
2. SEE SHEET A700 FOR BORROWED LIGHT ELEVATIONS. SEE SHEET A701 FOR DOOR AND FRAME ELEVATIONS AND DOOR SCHEDULE. SEE SHEET A702 FOR DOOR AND WINDOW FRAME DETAILS.
3. DIMENSIONS ARE TO FACE OF PAINTED SURFACE U.N.O.
4. SEE SHEETS Q000 THRU Q821 FOR AUTOPSY SUITE PLANS AND DETAILS.
5. SEE FINISH PLANS FOR ROOM FINISH INFORMATION AND EXTENT OF WALL PROTECTION SYSTEMS.
6. MECHANICAL AND ELECTRICAL EQUIPMENT SHOWN HERE FOR REFERENCE ONLY. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
7. SEE ENLARGED PLANS FOR DIMENSIONS OF TOILET ROOMS, LOCKER ROOMS, ADMINISTRATIVE AREAS, AND AUTOPSY VIEWING AREA.
8. CJ = REFER TO 3/A606 FOR CONTROL JOINT AND CORNER CAVITY CLOSURE DETAIL. REFER TO BUILDING ELEVATIONS A100 & A101 FOR CORNER JOINT LOCATIONS.

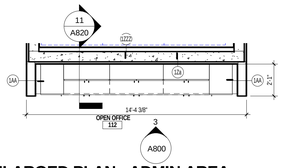
FLOOR PLAN KEY NOTES

1. TYPE 2 LOCKERS - LOCKER SUPPLIER TO PROVIDE COORDINATION DRAWINGS PRIOR TO POURING CONCRETE PADS.
2. 72" LONG X 20" WIDE WALL MOUNTED BENCH.
3. 60" LONG X 20" WIDEWALL MOUNTED BENCH.

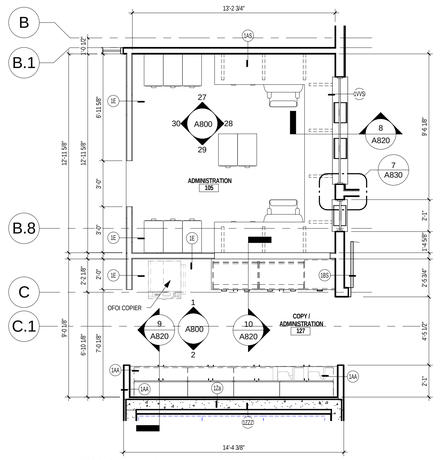




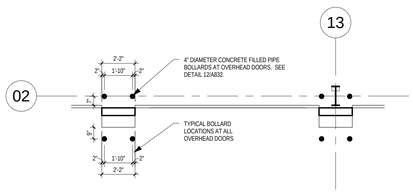
5 BREAK ROOM
1/4" = 1'-0"



4 ENLARGED PLAN - ADMIN AREA
1/4" = 1'-0"

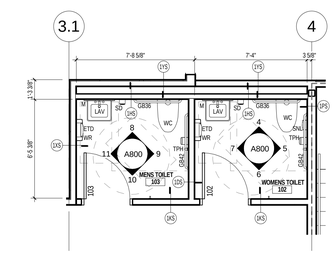


3 COPY / ADMINISTRATIVE
1/4" = 1'-0"

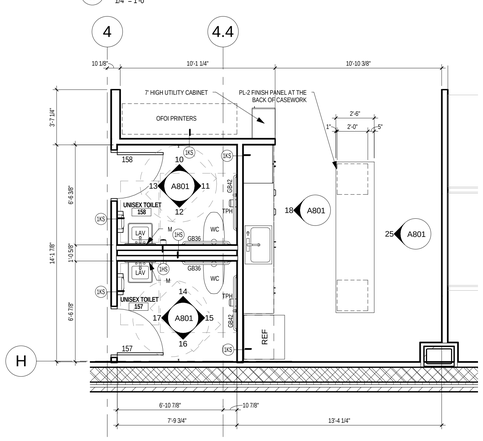


9 TYPICAL BOLLARD LOCATIONS
1/4" = 1'-0"

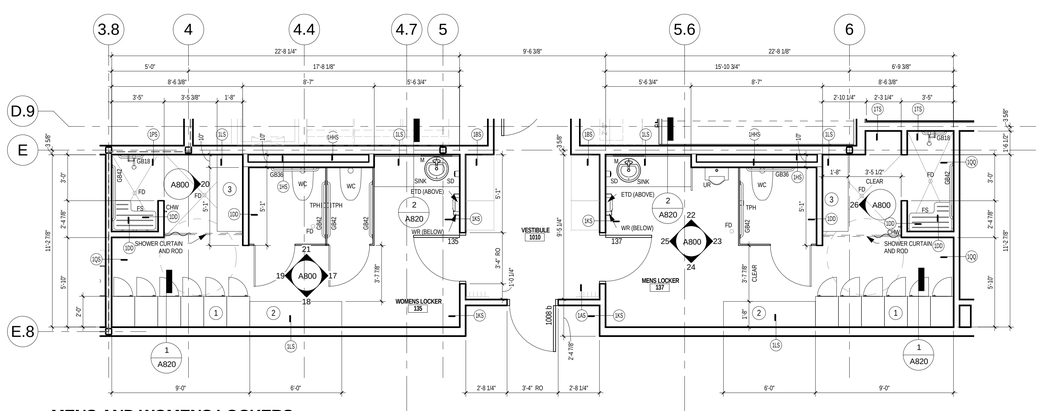
7 ENLARGED PLAN - AUTOPSY VIEWING AREA
1/4" = 1'-0"



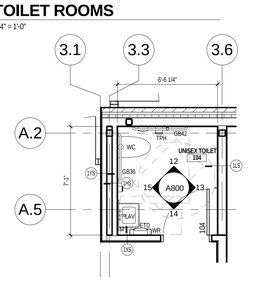
2 TOILET ROOMS
1/4" = 1'-0"



8 ENLARGED PLAN - UNISEX TOILETS
1/4" = 1'-0"



6 MENS AND WOMENS LOCKERS
1/4" = 1'-0"



1 UNISEX TOILET
1/4" = 1'-0"

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PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
ENLARGED FLOOR PLANS

DATE
01.12.15

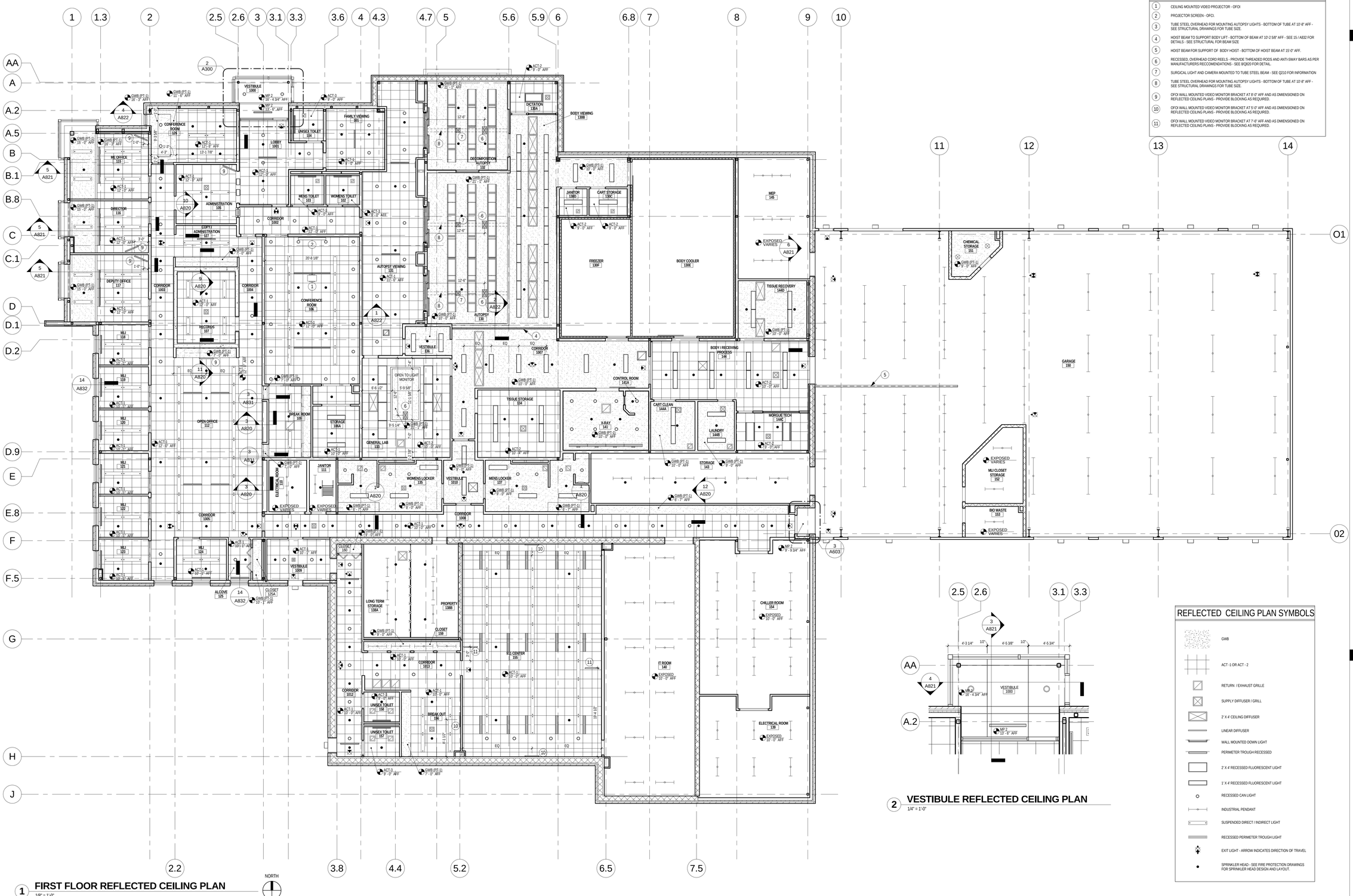
A210

CEILING PLAN GENERAL NOTES

1. VERIFY SIZE, LOCATION, & QUANTITY OF ACCESS PANELS WITH MECHANICAL CONTRACTOR AND CONFIRM WITH ARCHITECT.
2. REFER TO ELEC. & MECH. DRAWINGS FOR TYPE & QUANTITY OF FIXTURES & DEVICES. FOR EQUIPMENT NOT SHOWN HERE, CONFIRM LOCATION WITH ARCHITECT. FOR DEVICES NOT DIMENSIONED SEE ELEC. & MECH. DRAWINGS.
3. REFER TO SHEET A850 FOR PARTITION TYPES.
4. DIMENSIONS FOR LIGHT FIXTURES AND OTHER CEILING DEVICES ARE TO THE CENTER LINE UNLESS NOTED OTHERWISE.
5. LIGHTS, SPRINKLER HEADS, SENSORS AND OTHER CEILING MOUNTED DEVICES TO BE CENTERED IN CEILING TILE UNLESS NOTED OTHERWISE.
6. FOR LIFE SAFETY INFORMATION AND WALL RATINGS SEE SHEETS G100 THRU G102.
7. ALL SPRINKLER HEADS SHOWN ON REFLECTED CEILING PLAN ARE FOR REFERRENCE AND COORDINATION ONLY. FINAL DESIGN AND LAYOUT OF SPRINKLER HEADS AND FIRE PROTECTION SYSTEM ARE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR.

CEILING PLAN KEY NOTES

1. CEILING MOUNTED VIDEO PROJECTOR - OFCI
2. PROJECTOR SCREEN - OFCI.
3. TUBE STEEL OVERHEAD FOR MOUNTING AUTOPSY LIGHTS - BOTTOM OF TUBE AT 10'-8" AFF - SEE STRUCTURAL DRAWINGS FOR TUBE SIZE.
4. HOIST BEAM TO SUPPORT BODY LIFT - BOTTOM OF BEAM AT 10'-2 5/8" AFF - SEE 15 / A832 FOR DETAILS - SEE STRUCTURAL FOR BEAM SIZE
5. HOIST BEAM FOR SUPPORT OF BODY HOIST - BOTTOM OF HOIST BEAM AT 15'-0" AFF.
6. RECESSED, OVERHEAD CORD REELS - PROVIDE THREADED RODS AND ANTI-SWAY BARS AS PER MANUFACTURERS RECOMMENDATIONS - SEE BOR20 FOR DETAIL.
7. SURGICAL LIGHT AND CAMERA MOUNTED TO TUBE STEEL BEAM - SEE QD10 FOR INFORMATION
8. TUBE STEEL OVERHEAD FOR MOUNTING AUTOPSY LIGHTS - BOTTOM OF TUBE AT 10'-8" AFF - SEE STRUCTURAL DRAWINGS FOR TUBE SIZE.
9. OFCI WALL MOUNTED VIDEO MONITOR BRACKET AT 8'-0" AFF AND AS DIMENSIONED ON REFLECTED CEILING PLANS - PROVIDE BLOCKING AS REQUIRED.
10. OFCI WALL MOUNTED VIDEO MONITOR BRACKET AT 5'-0" AFF AND AS DIMENSIONED ON REFLECTED CEILING PLANS - PROVIDE BLOCKING AS REQUIRED.
11. OFCI WALL MOUNTED VIDEO MONITOR BRACKET AT 7'-6" AFF AND AS DIMENSIONED ON REFLECTED CEILING PLANS - PROVIDE BLOCKING AS REQUIRED.



1 **FIRST FLOOR REFLECTED CEILING PLAN**
1/8" = 1'-0"

NORTH

2 **VESTIBULE REFLECTED CEILING PLAN**
1/4" = 1'-0"

REFLECTED CEILING PLAN SYMBOLS

- GWB
- ACT -1 OR ACT - 2
- RETURN / EXHAUST GRILLE
- SUPPLY DIFFUSER / GRILL
- 2' X 4' CEILING DIFFUSER
- LINEAR DIFFUSER
- WALL MOUNTED DOWN LIGHT
- PERIMETER TROUGH RECESSED
- 2' X 4' RECESSED FLUORESCENT LIGHT
- 1' X 4' RECESSED FLUORESCENT LIGHT
- RECESSED CAN LIGHT
- INDUSTRIAL PENDANT
- SUSPENDED DIRECT / INDIRECT LIGHT
- RECESSED PERIMETER TROUGH LIGHT
- EXIT LIGHT - ARROW INDICATES DIRECTION OF TRAVEL
- SPRINKLER HEAD - SEE FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD DESIGN AND LAYOUT.

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MC FARLAND, WI 53558

BID NO.
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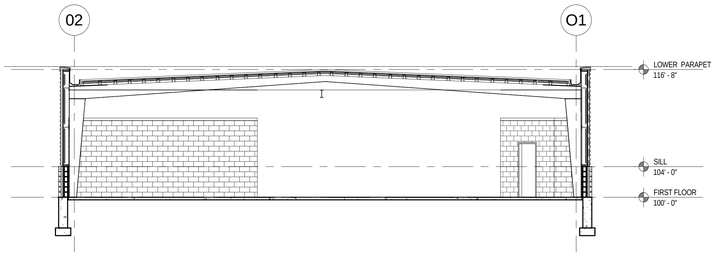
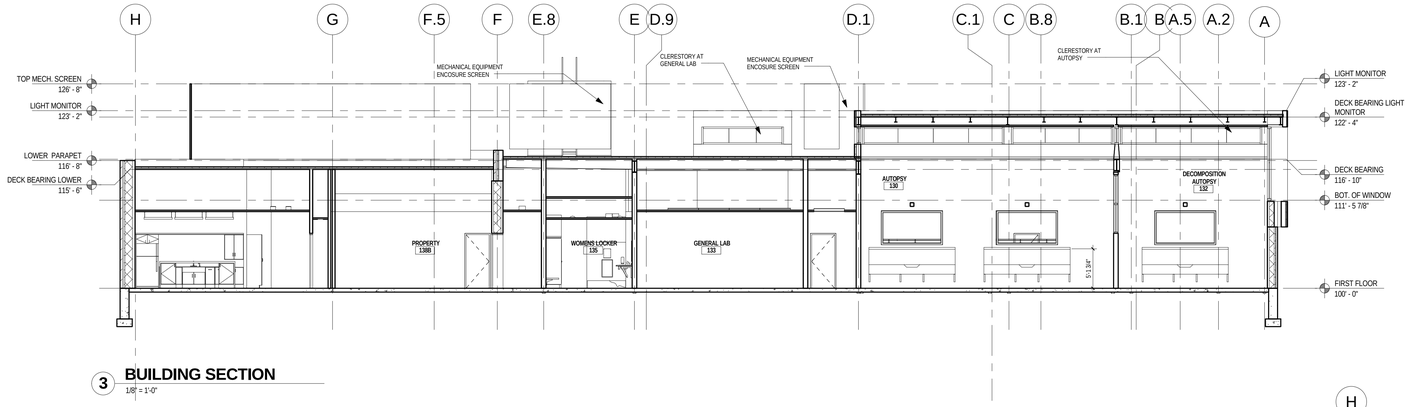
DRAWING
FIRST FLOOR REFLECTED CEILING PLAN

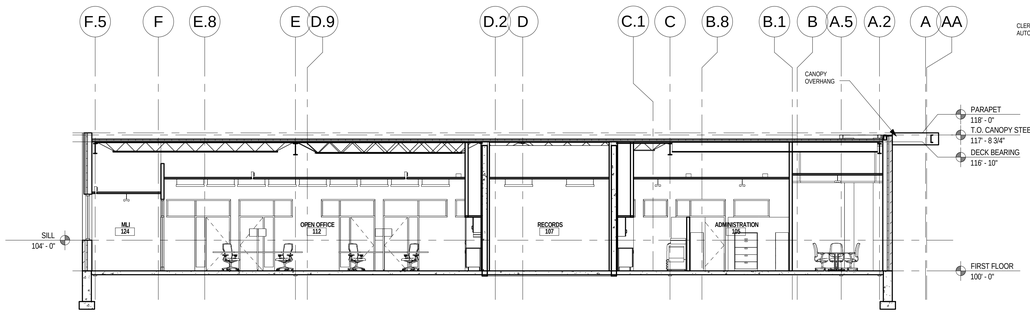
DATE
01.12.15



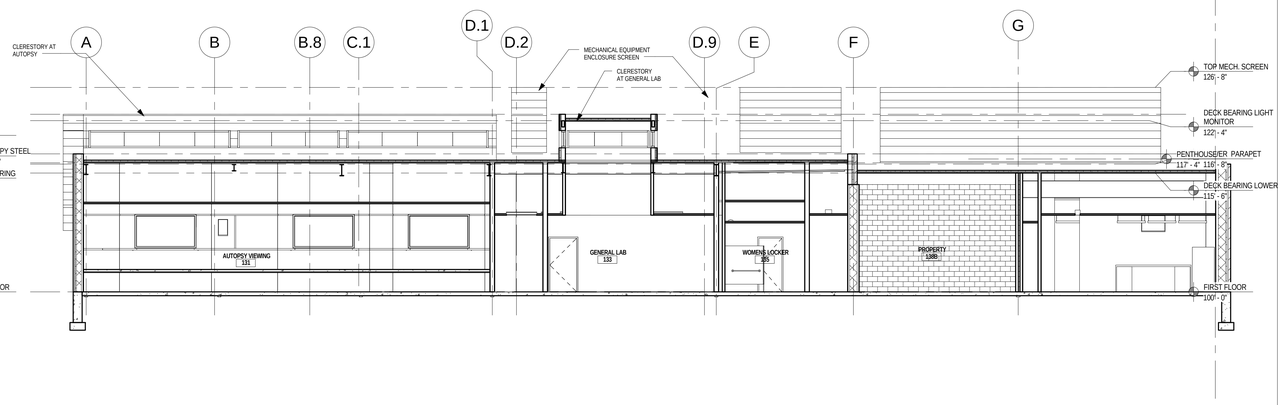
5 BUILDING SECTION
1/8" = 1'-0"



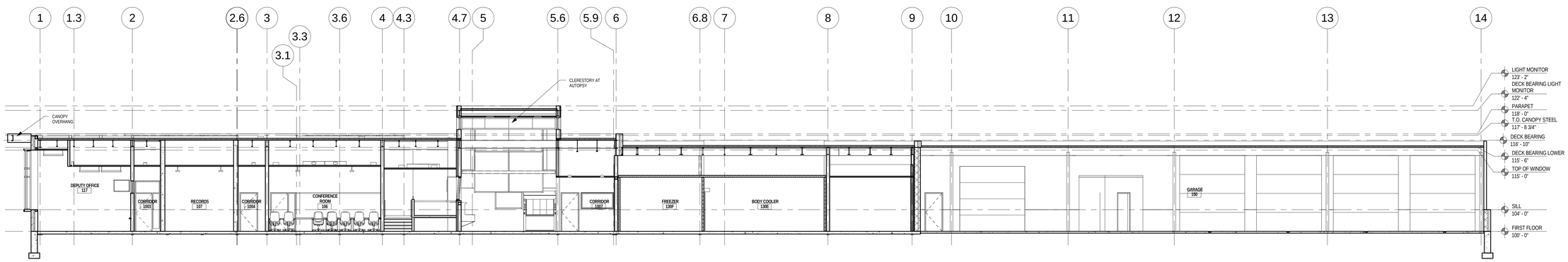
3 BUILDING SECTION
1/8" = 1'-0"



4 BUILDING SECTION
1/8" = 1'-0"



2 BUILDING SECTION
1/8" = 1'-0"



1 BUILDING SECTION
1/8" = 1'-0"

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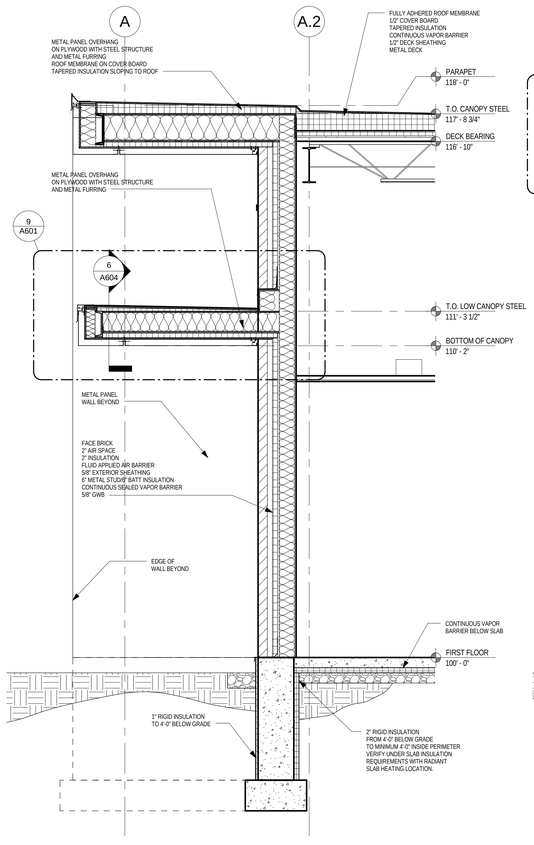
01.12.15 CONSTRUCTION DOCUMENTS

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

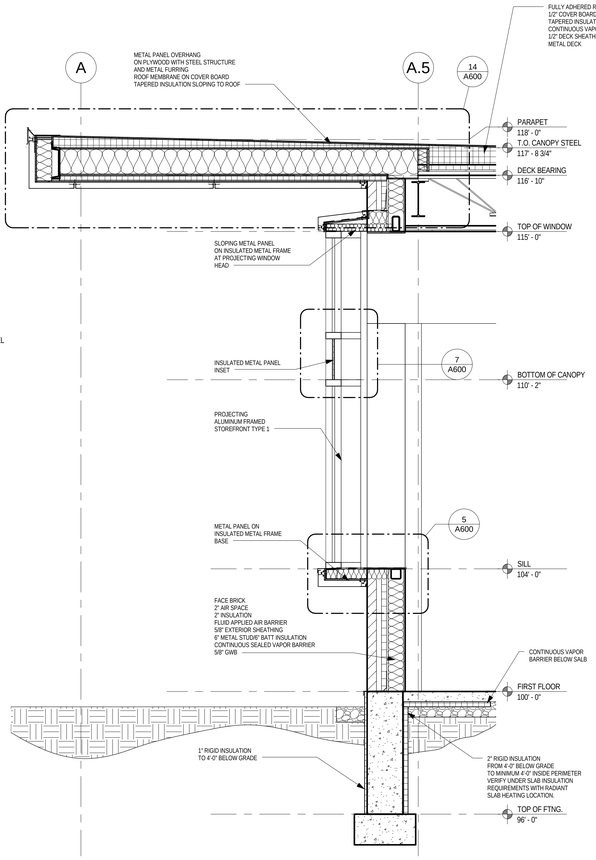
DRAWING
OVERALL SECTIONS

DATE
01.12.15



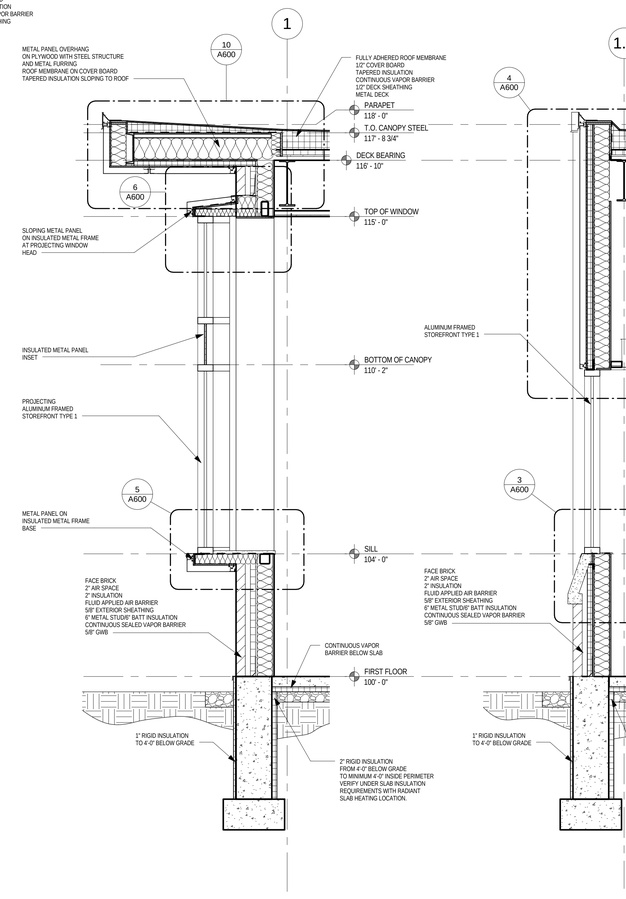
5 WALL SECTION

1/2" = 1'-0"



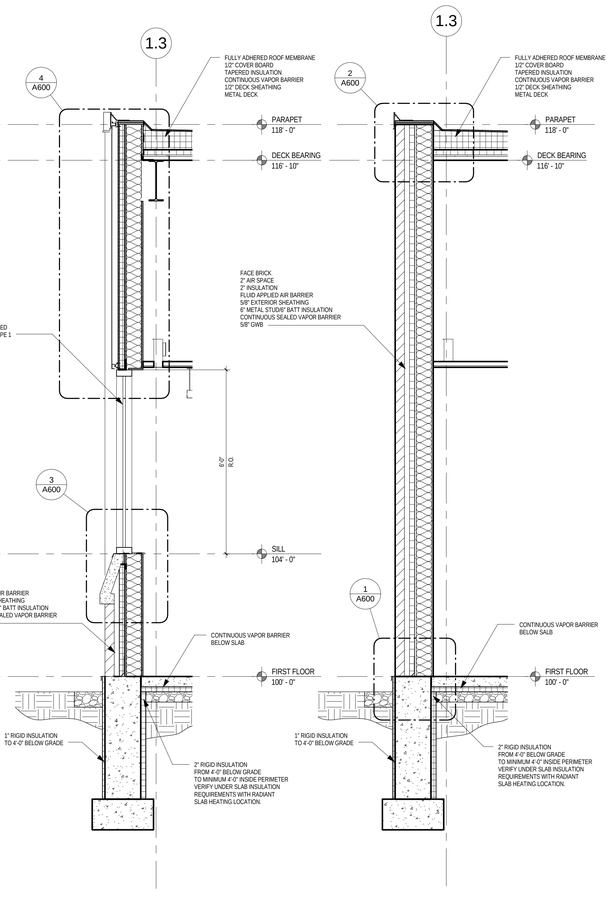
4 WALL SECTION

1/2" = 1'-0"



3 WALL SECTION

1/2" = 1'-0"



2 WALL SECTION

1/2" = 1'-0"

1 WALL SECTION

1/2" = 1'-0"

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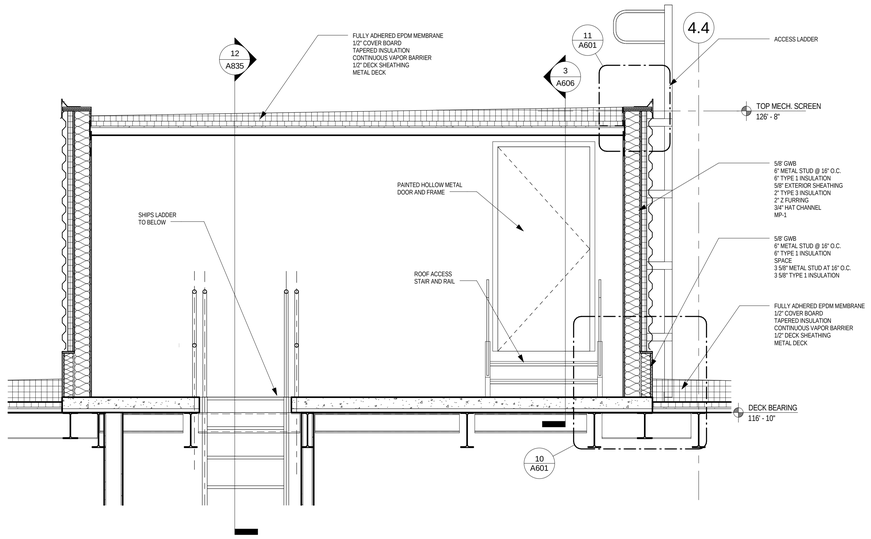
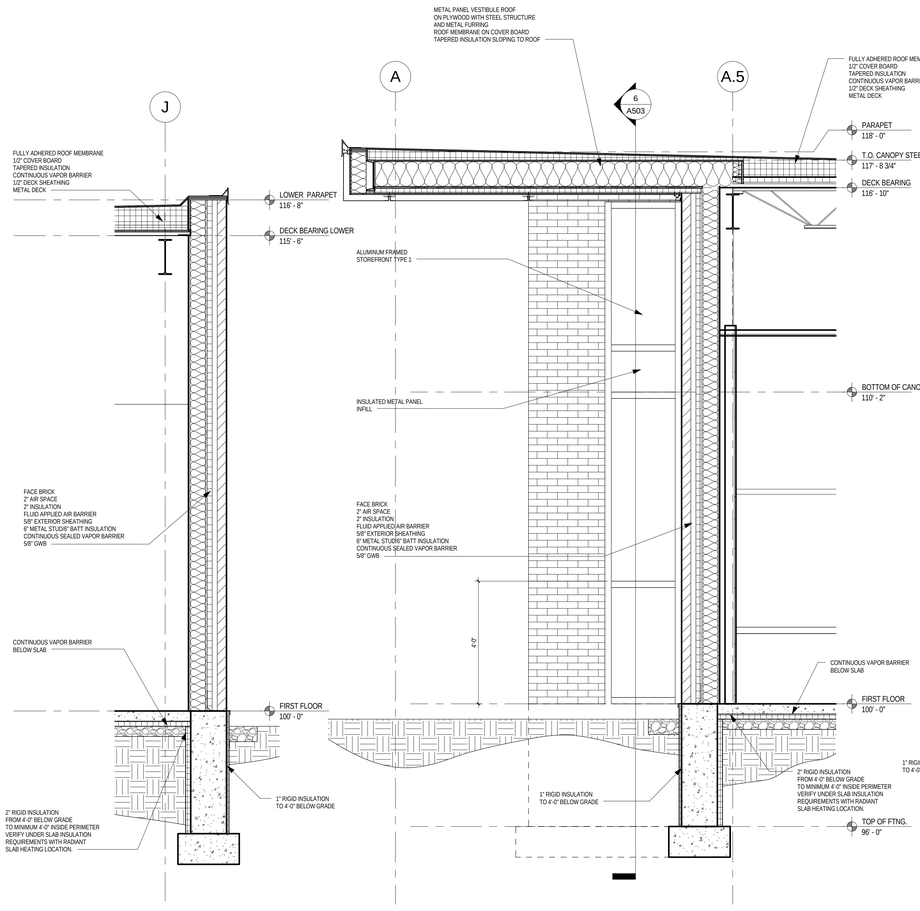
EXTERIOR WALL SECTIONS

DATE
01.12.15

A500



4 WALL SECTION
1/2" = 1'-0"



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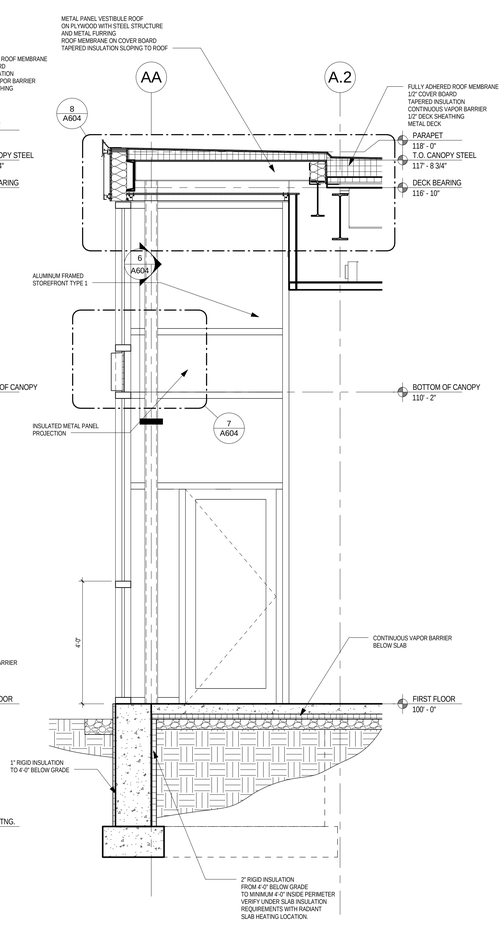
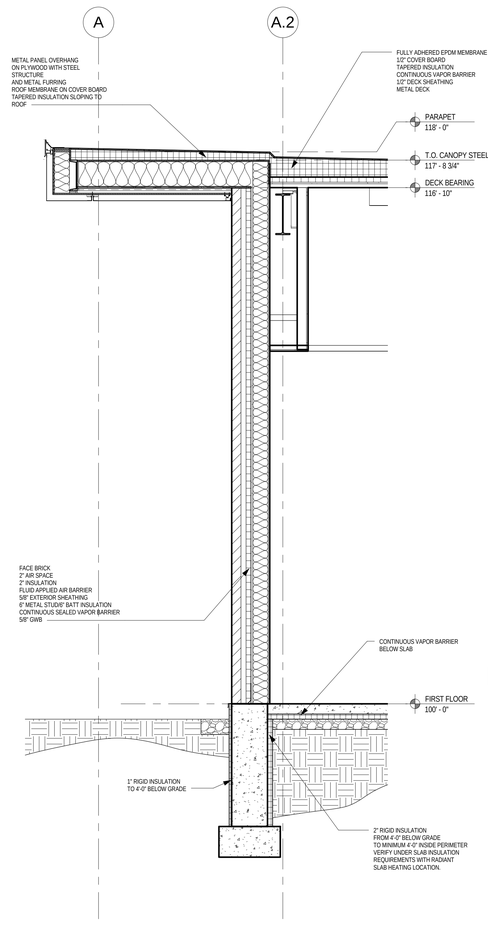
1/2" = 1'-0"



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



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

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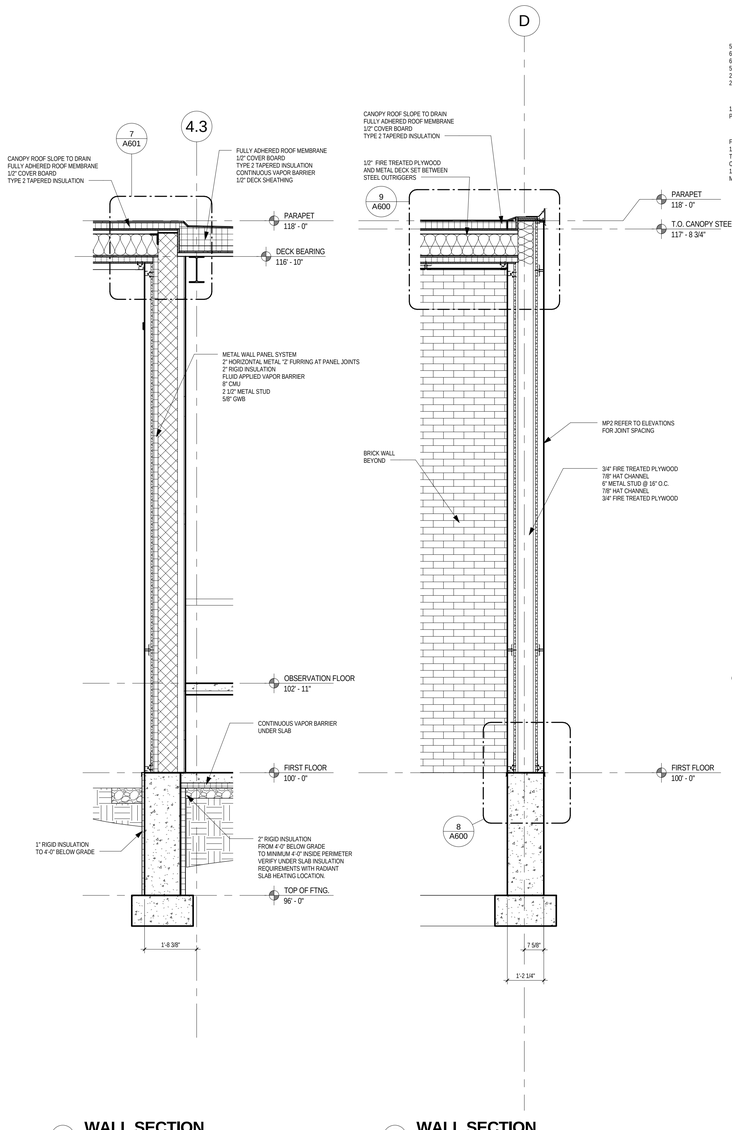
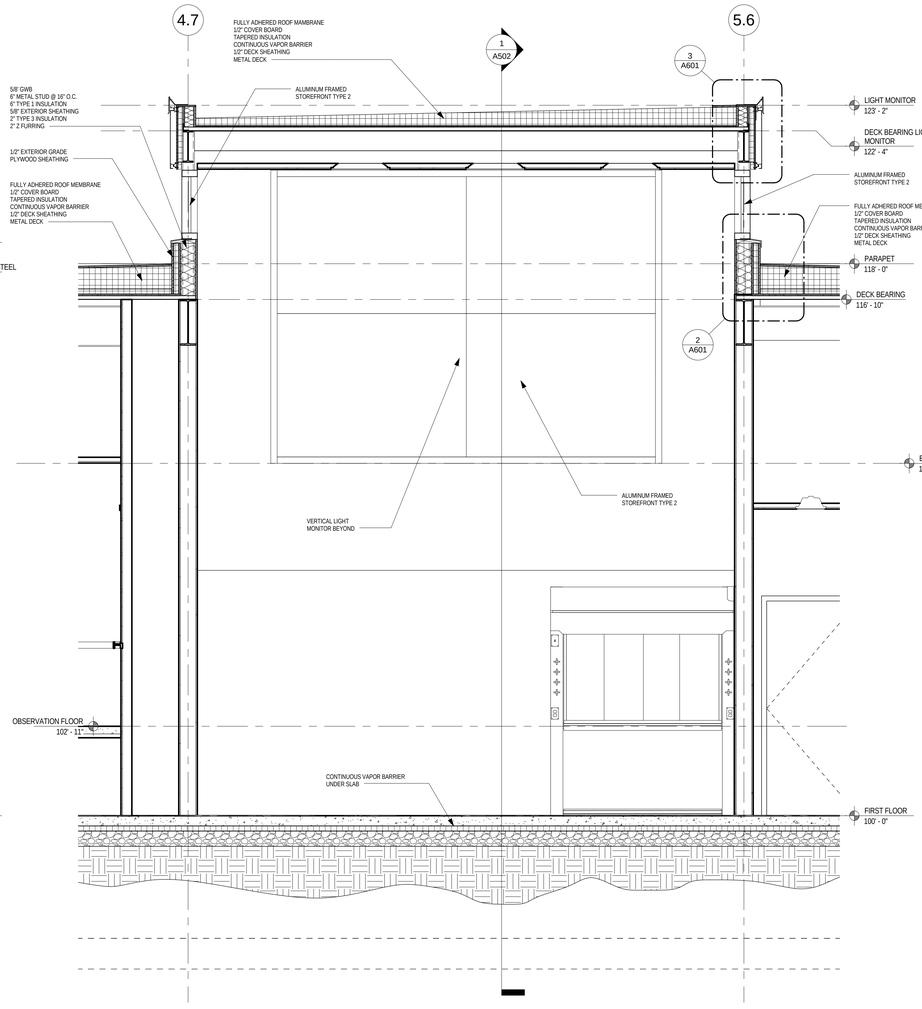


4 **WALL SECTION**
1/2" = 1'-0"

3 **WALL SECTION**
1/2" = 1'-0"



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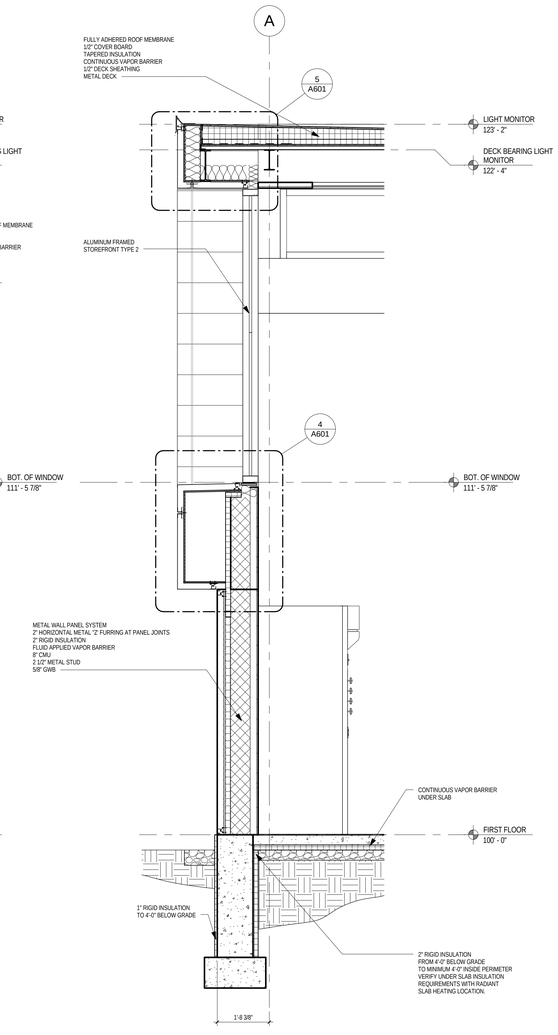
1/2" = 1'-0"



1 **WALL SECTION**
1/2" = 1'-0"

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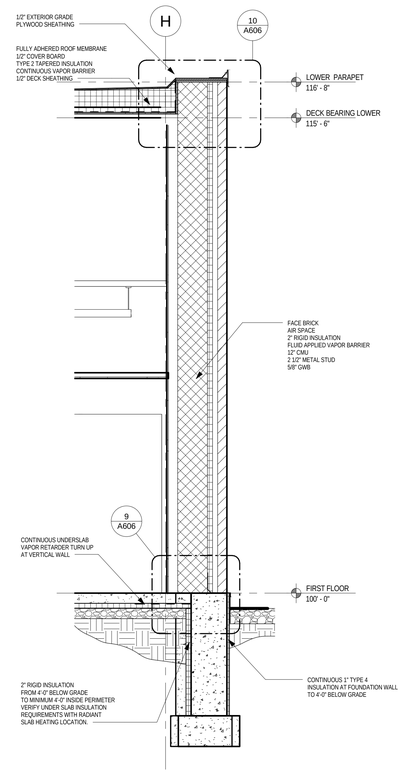
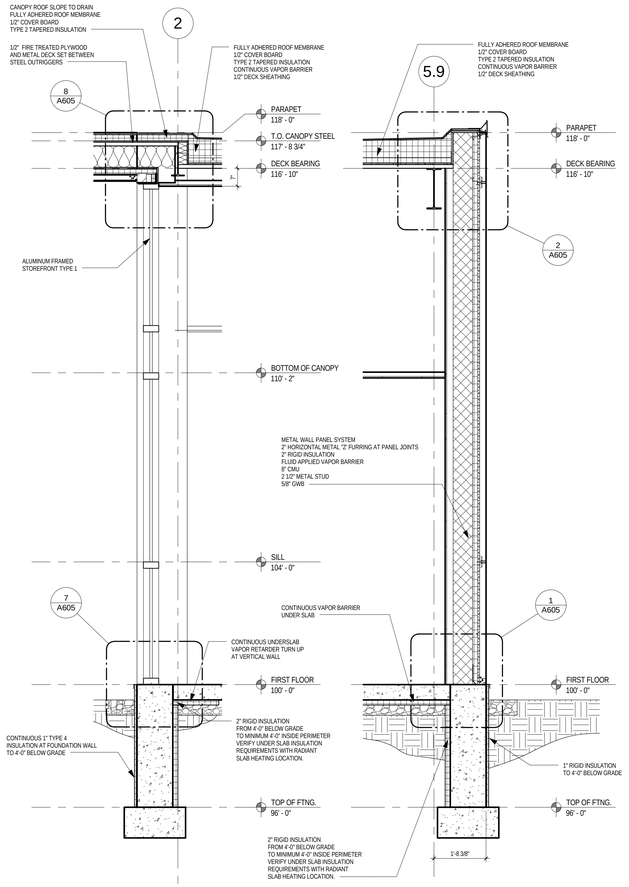
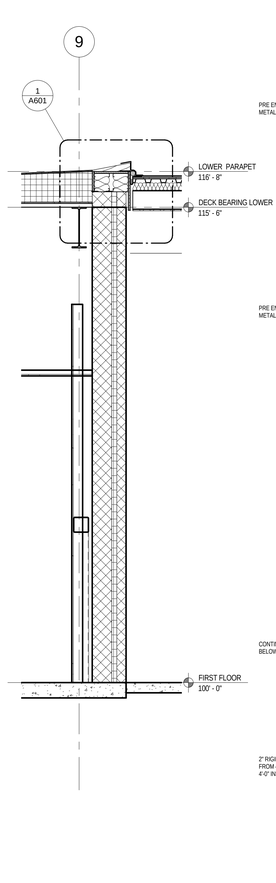


7 WALL SECTION
1/2" = 1'-0"

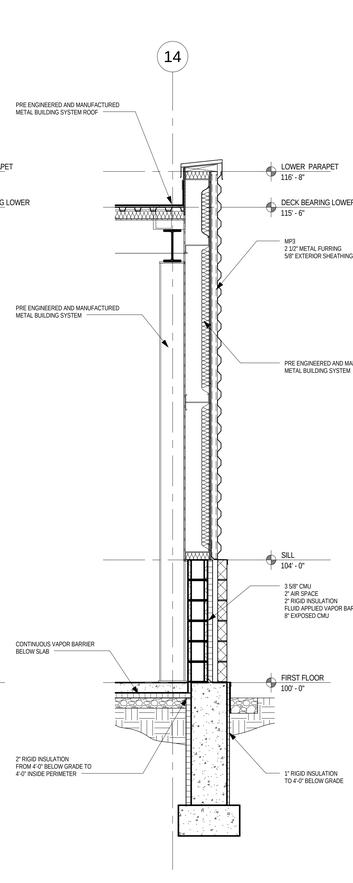


6 WALL SECTION
1/2" = 1'-0"

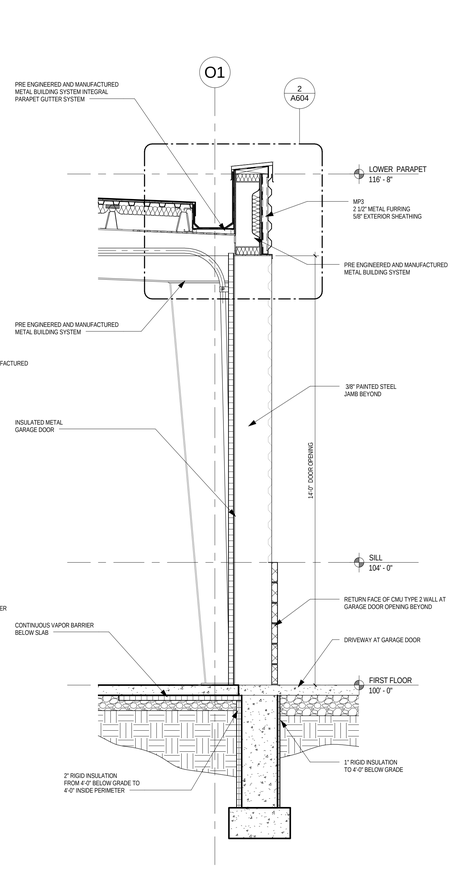
5 WALL SECTION
1/2" = 1'-0"



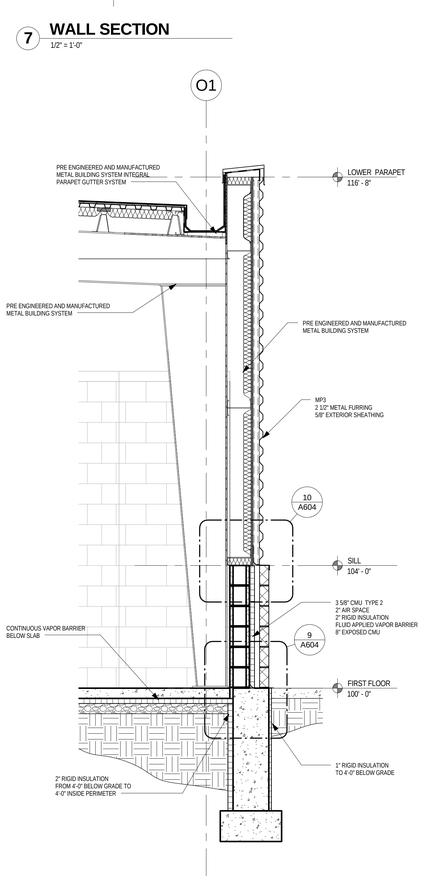
4 WALL SECTION
1/2" = 1'-0"



3 WALL SECTION
1/2" = 1'-0"



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



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

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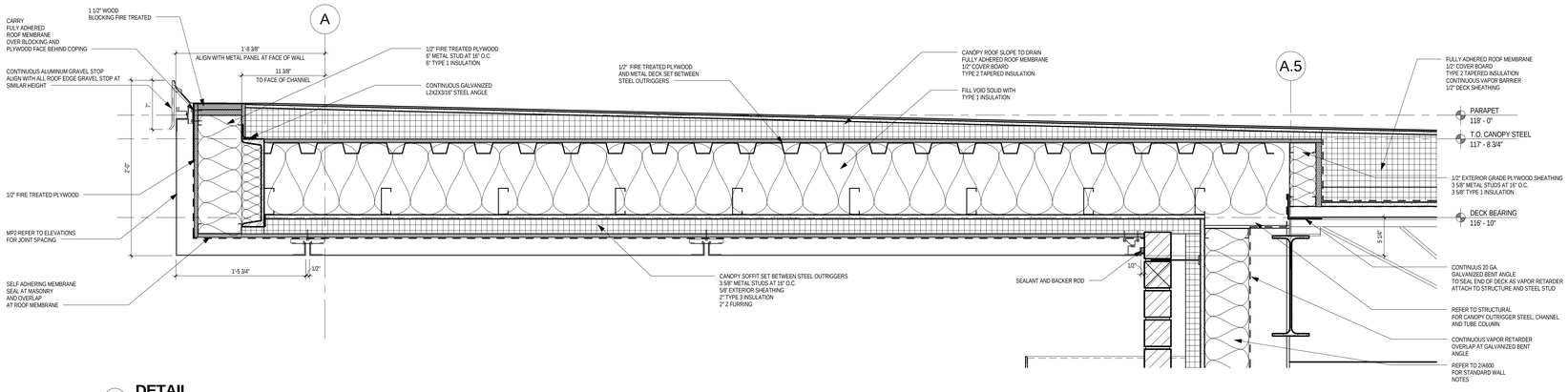
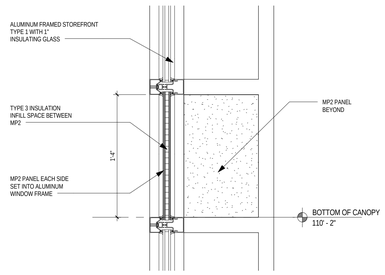
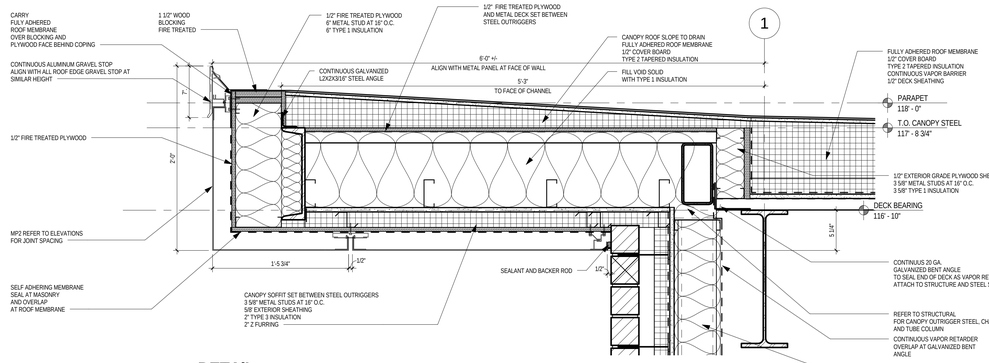


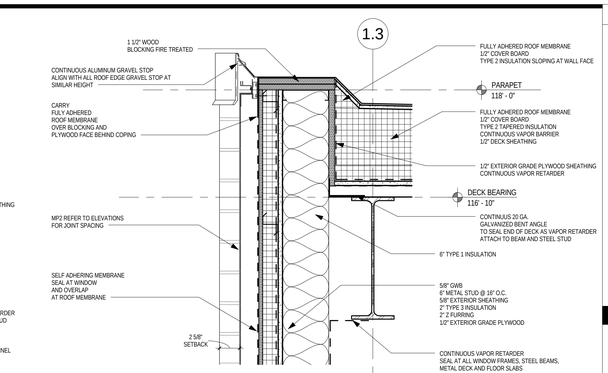
14 DETAIL
1 1/2" = 1'-0"

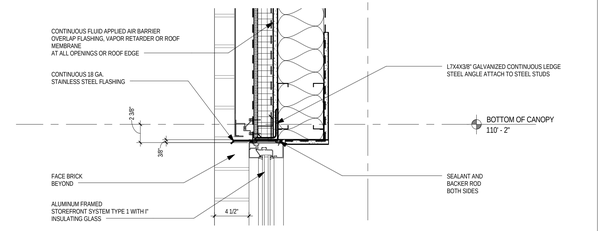


7 DETAIL
1 1/2" = 1'-0"

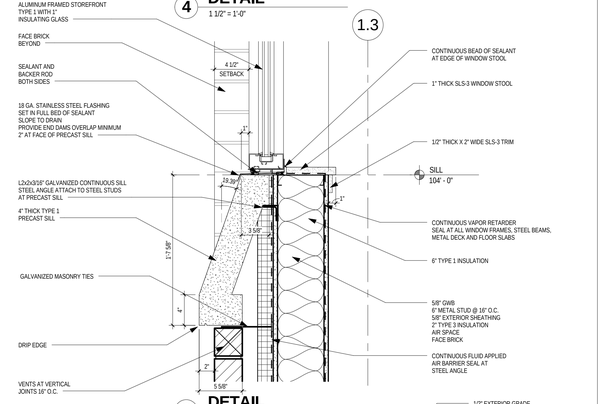


10 DETAIL
1 1/2" = 1'-0"





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



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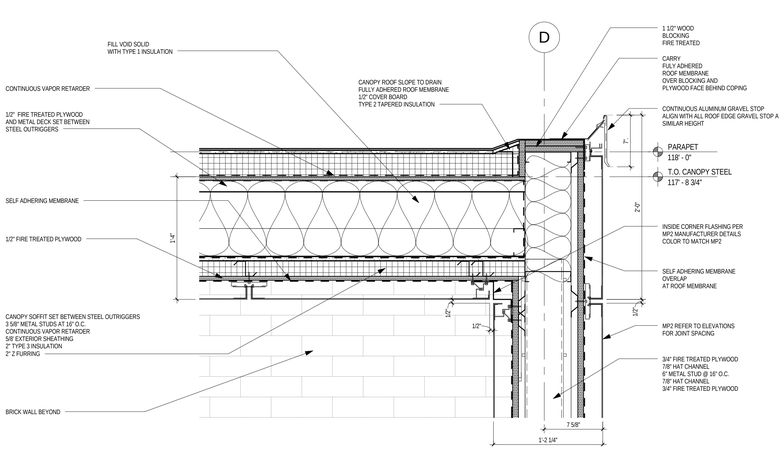
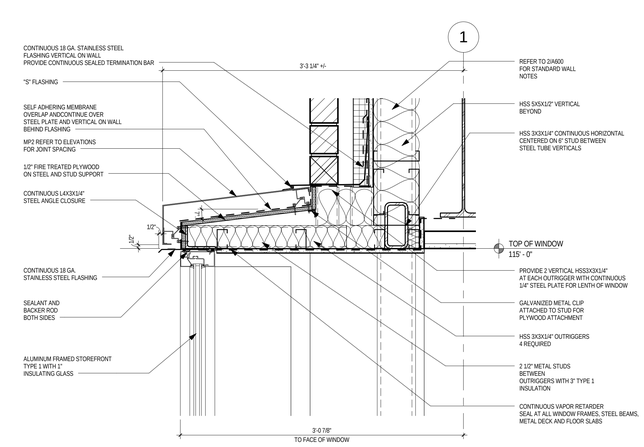
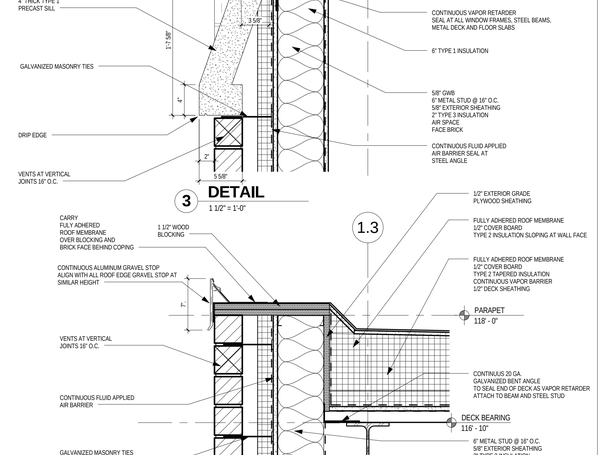
1 1/2" = 1'-0"



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



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



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

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

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

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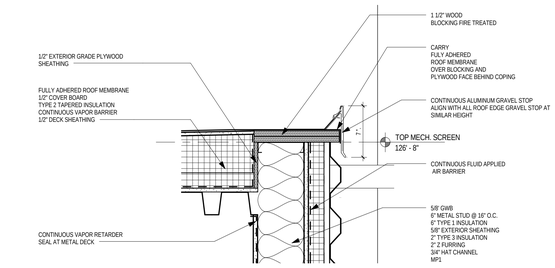
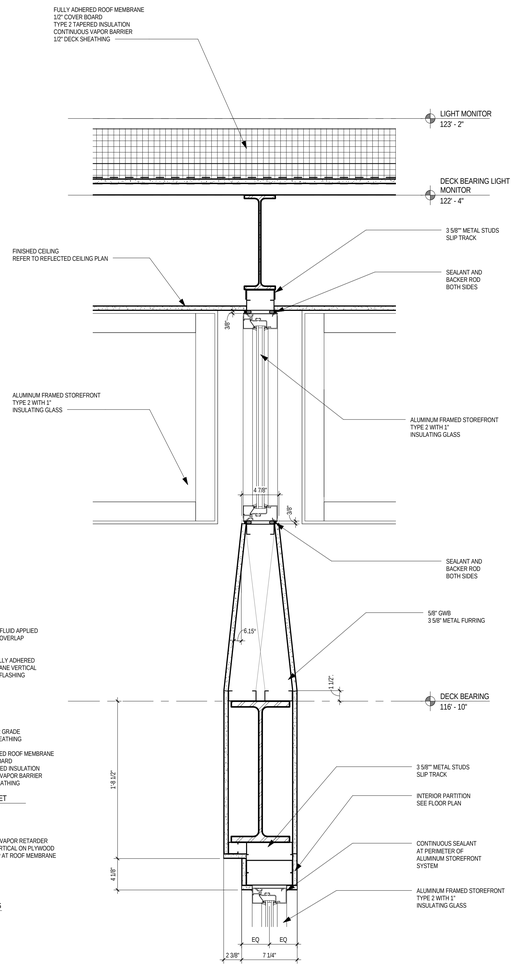
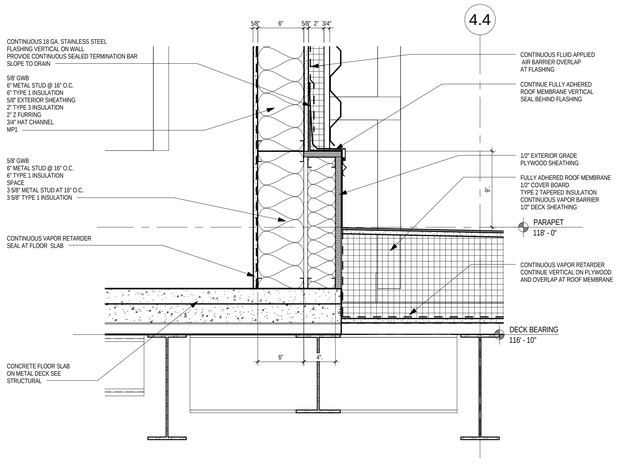
A600



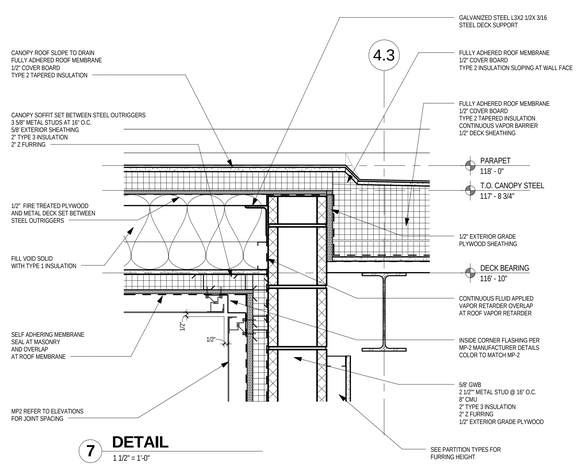
11 **DETAIL**
1 1/2" = 1'-0"



8 **DETAIL**
1 1/2" = 1'-0"



10 **DETAIL**
1 1/2" = 1'-0"



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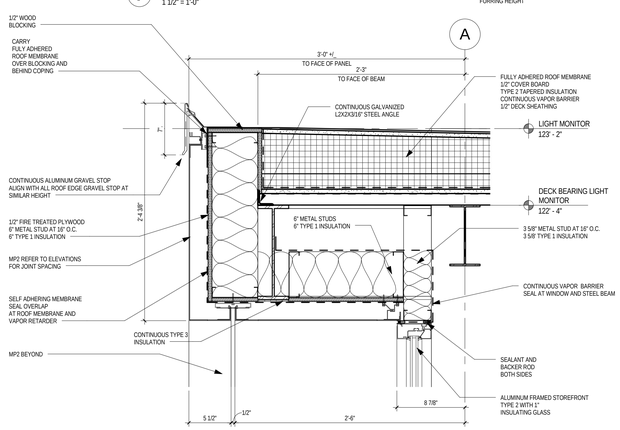
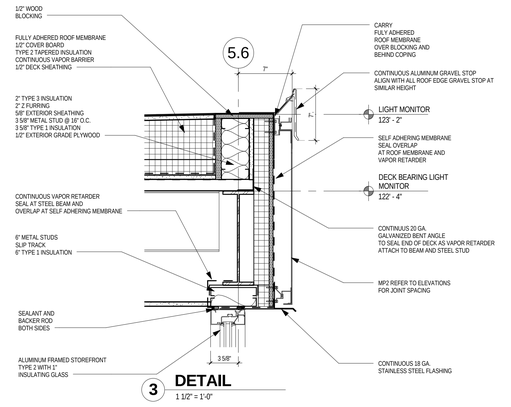
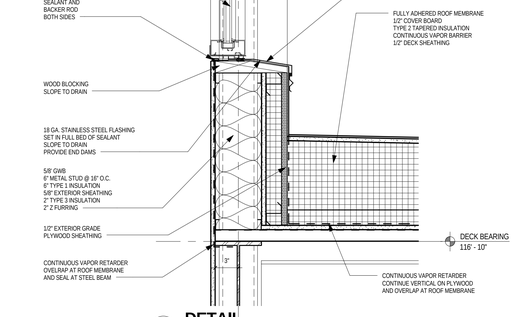
1 1/2" = 1'-0"



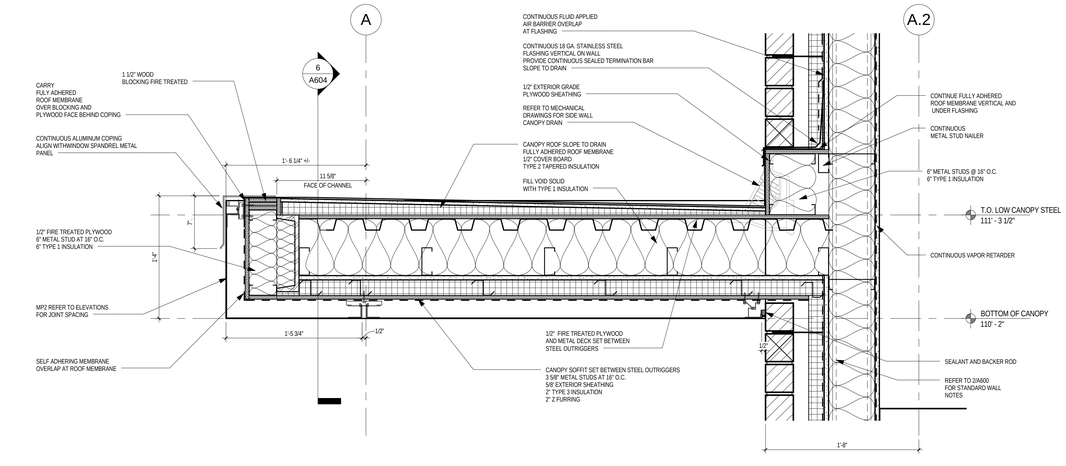
5 **DETAIL**
1 1/2" = 1'-0"



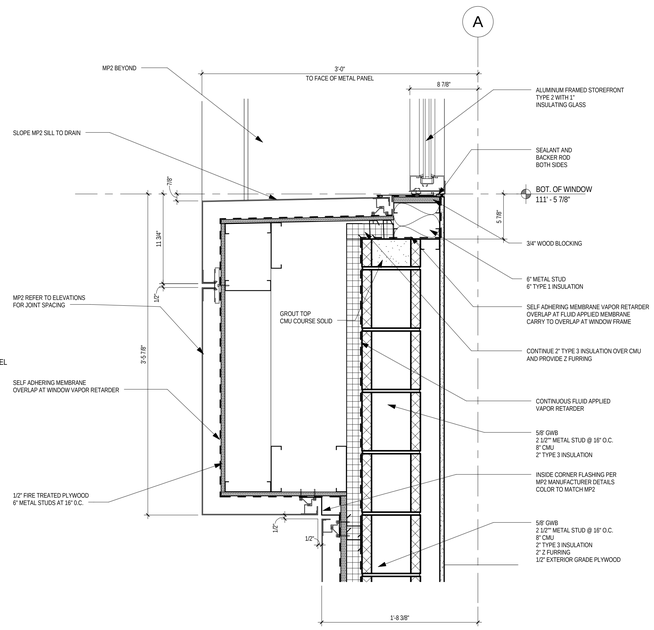
3 **DETAIL**
1 1/2" = 1'-0"



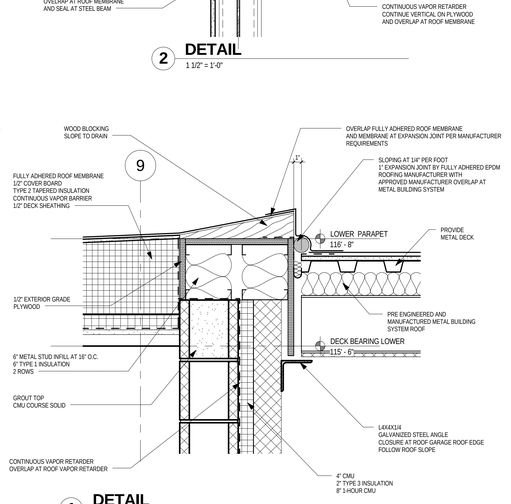
2 **DETAIL**
1 1/2" = 1'-0"



9 **DETAIL**
1 1/2" = 1'-0"



4 **DETAIL**
1 1/2" = 1'-0"



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

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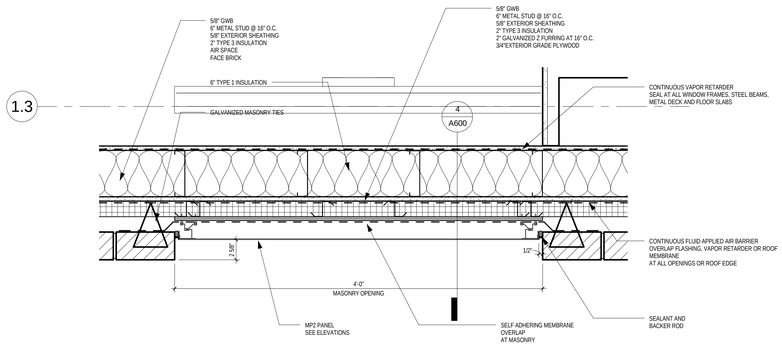
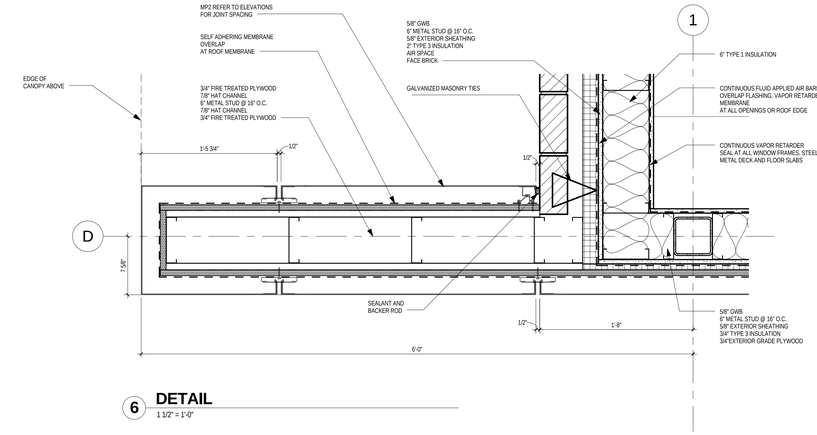
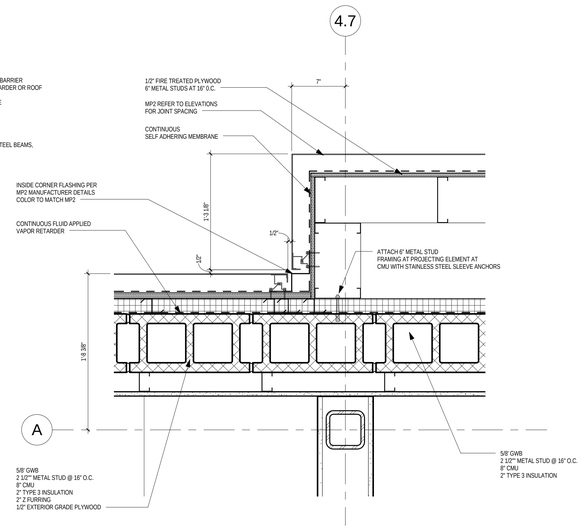
A601



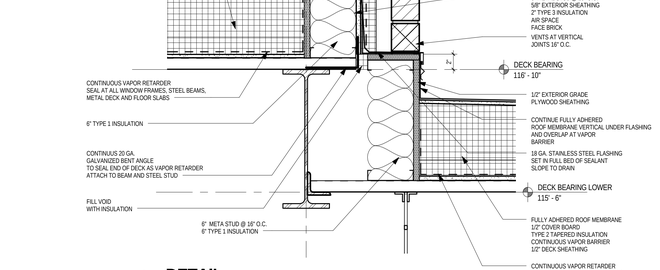
12 DETAIL
1 1/2" = 1'-0"



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



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



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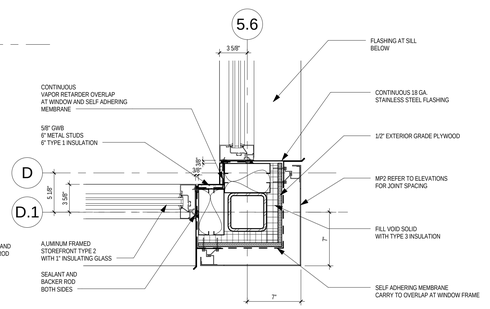
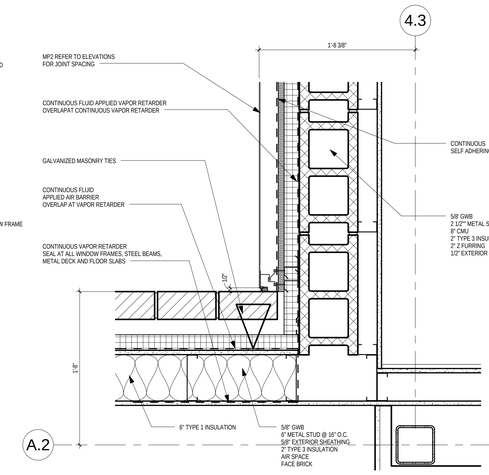
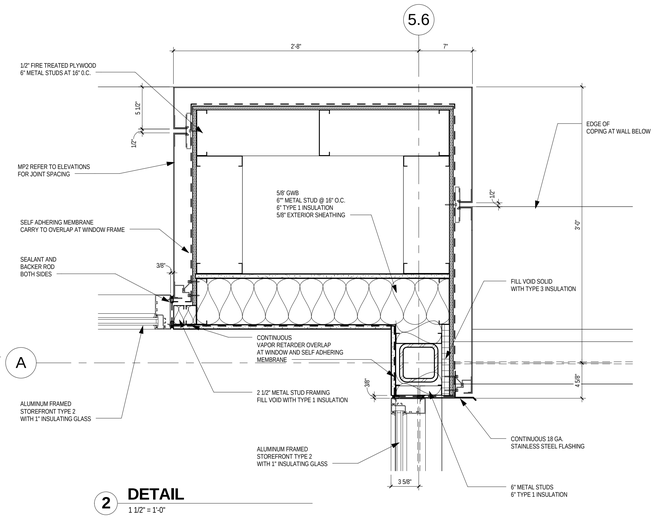
1 1/2" = 1'-0"



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

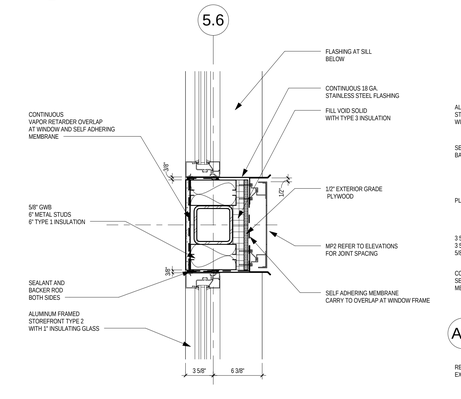


5 DETAIL
1 1/2" = 1'-0"

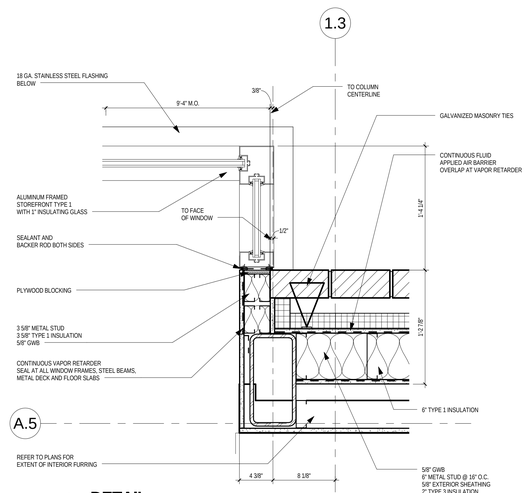


2 DETAIL
1 1/2" = 1'-0"

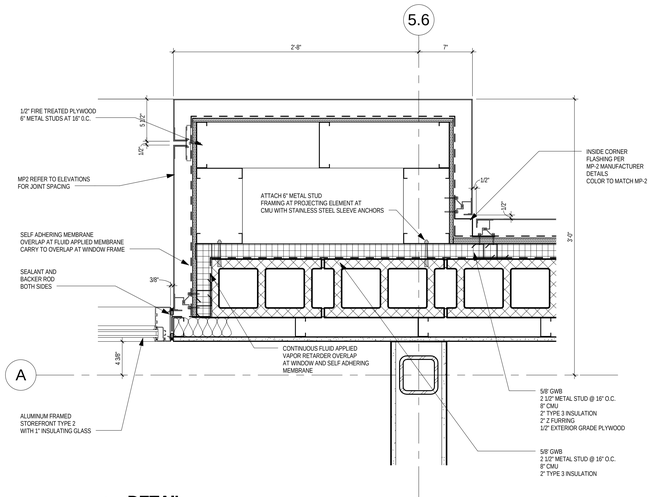
10 DETAIL
1 1/2" = 1'-0"



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



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



1 DETAIL
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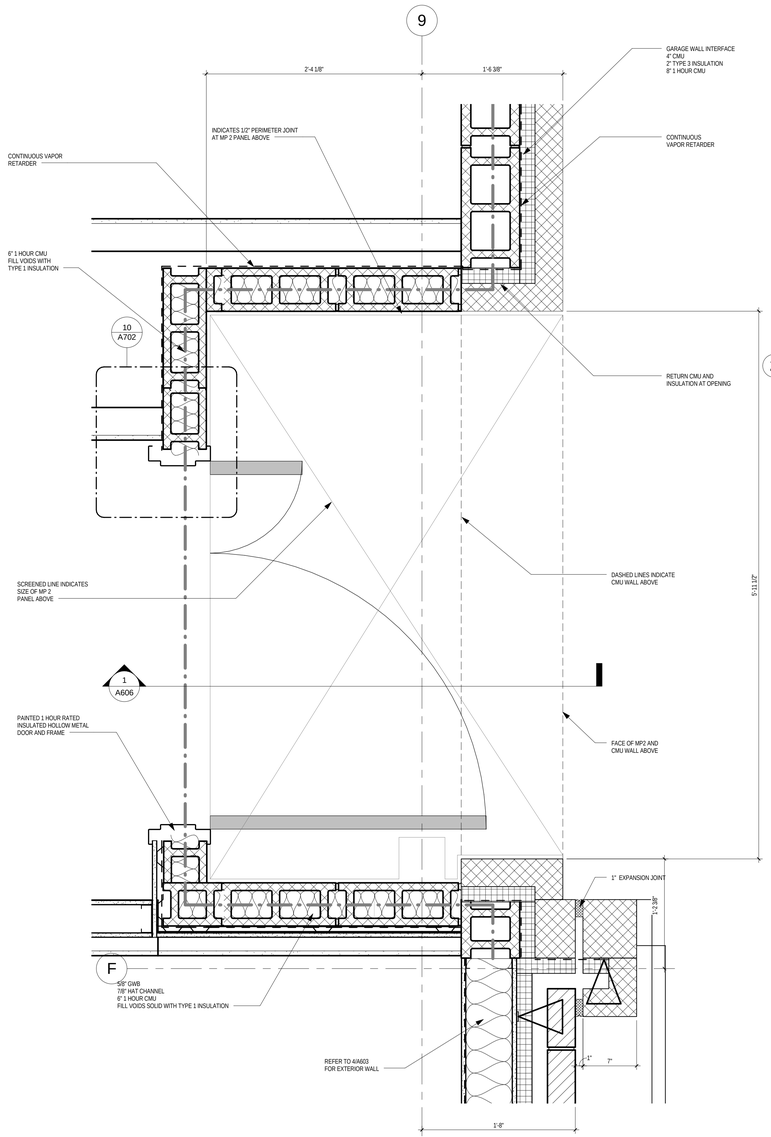
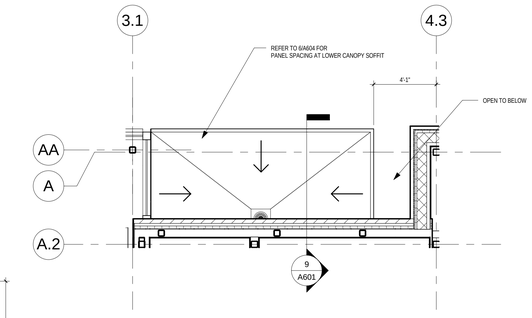
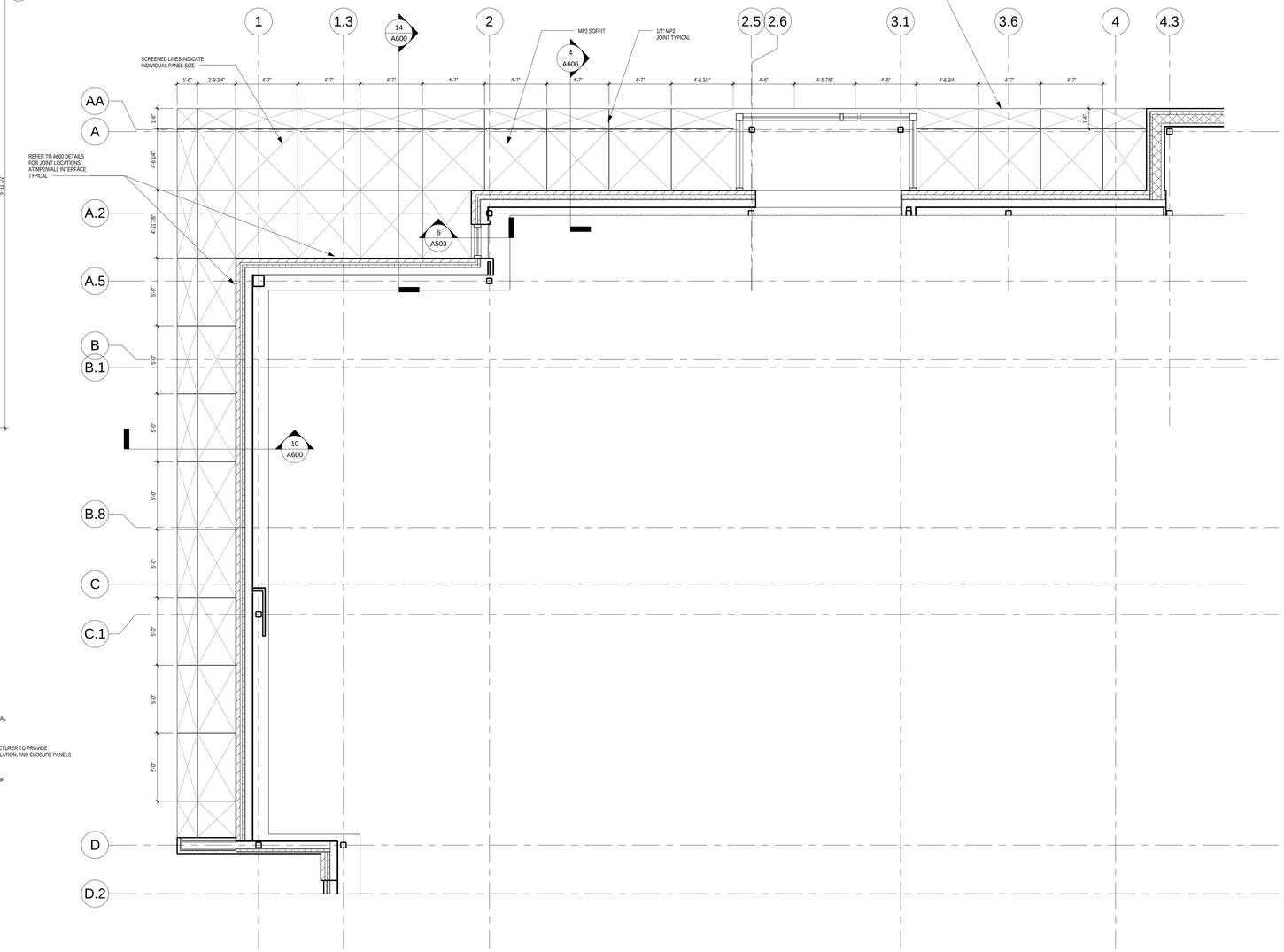


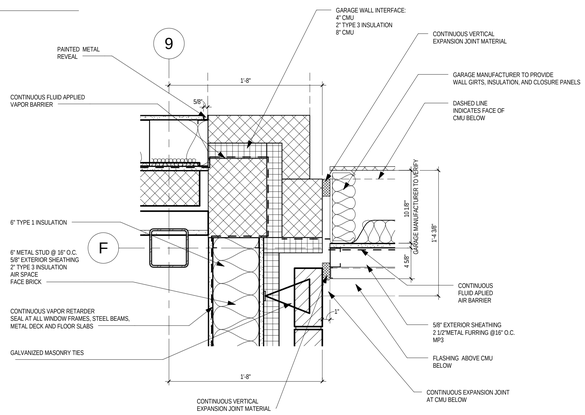
3 DETAIL
1 1/2" = 1'-0"



2 LOWER CANOPY ROOF
1/4" = 1'-0"



1 CANOPY REFLECTED SOFFIT PLAN
1/4" = 1'-0"



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

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ISSUE
01.12.15 CONSTRUCTION DOCUMENTS

PROJECT
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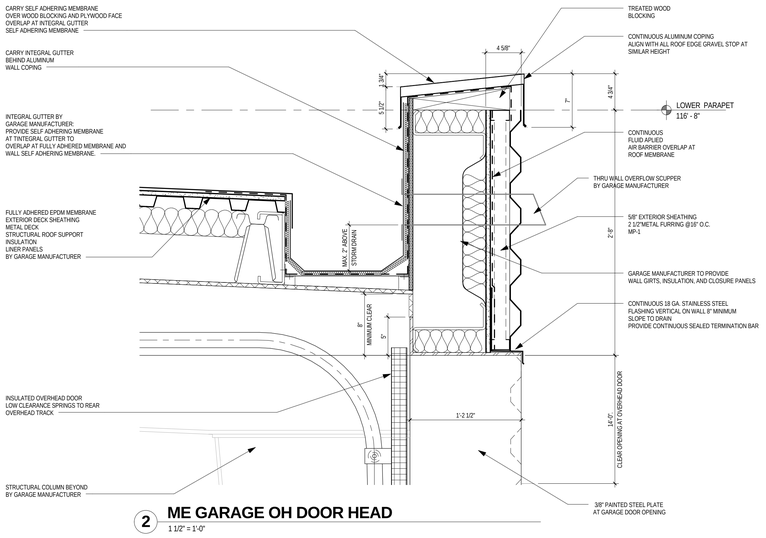
BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

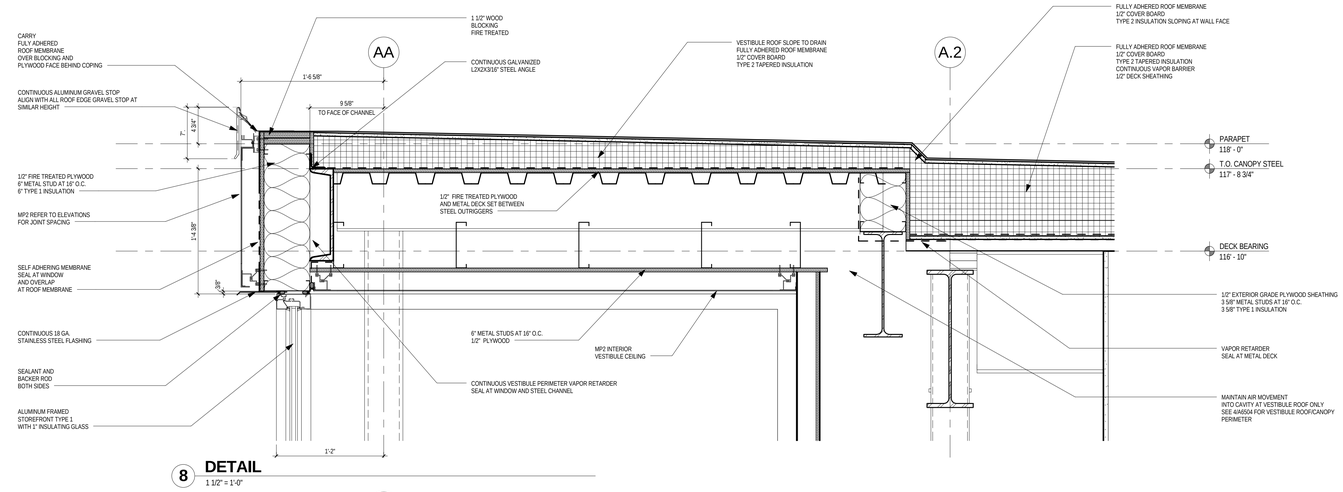
BID NO.
313083

DRAWING
EXTERIOR DETAILS

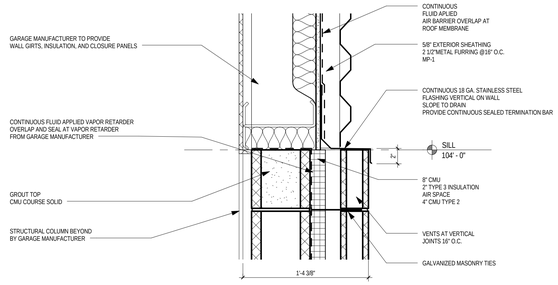
DATE
01.12.15



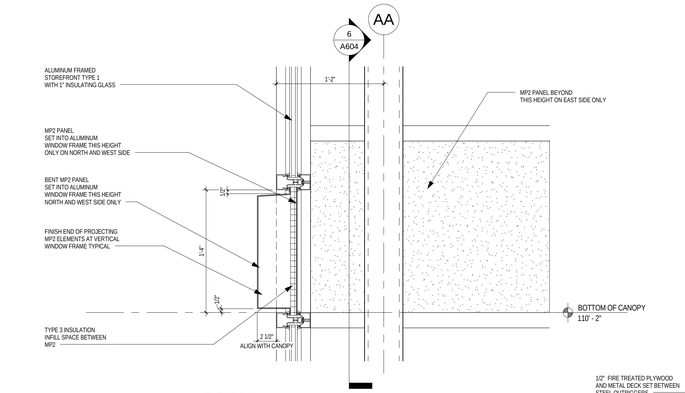
2 ME GARAGE OH DOOR HEAD
1 1/2" = 1'-0"



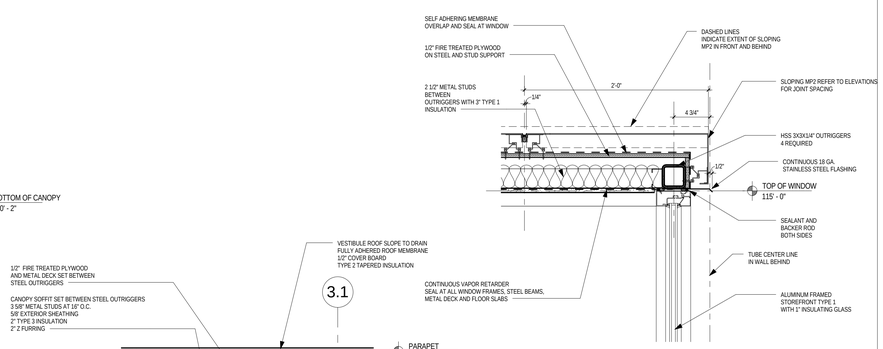
8 DETAIL
1 1/2" = 1'-0"

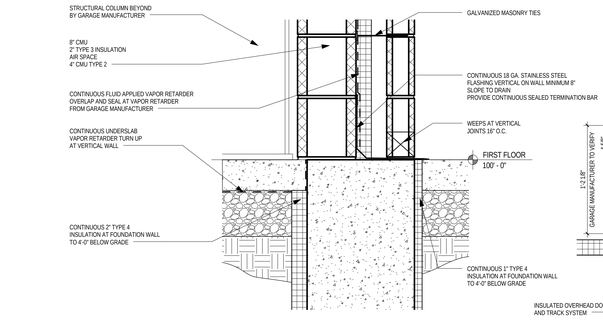


10 GARAGE SILL
1 1/2" = 1'-0"

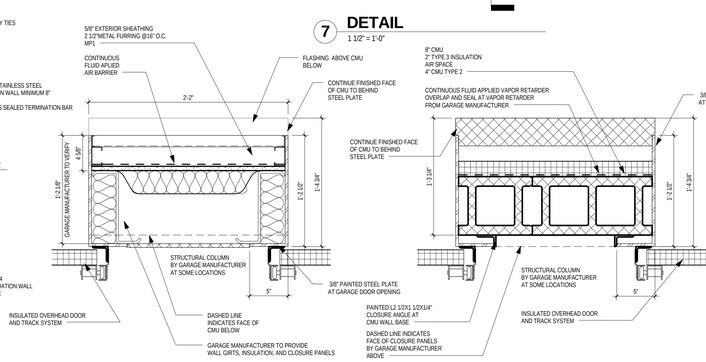


7 DETAIL
1 1/2" = 1'-0"





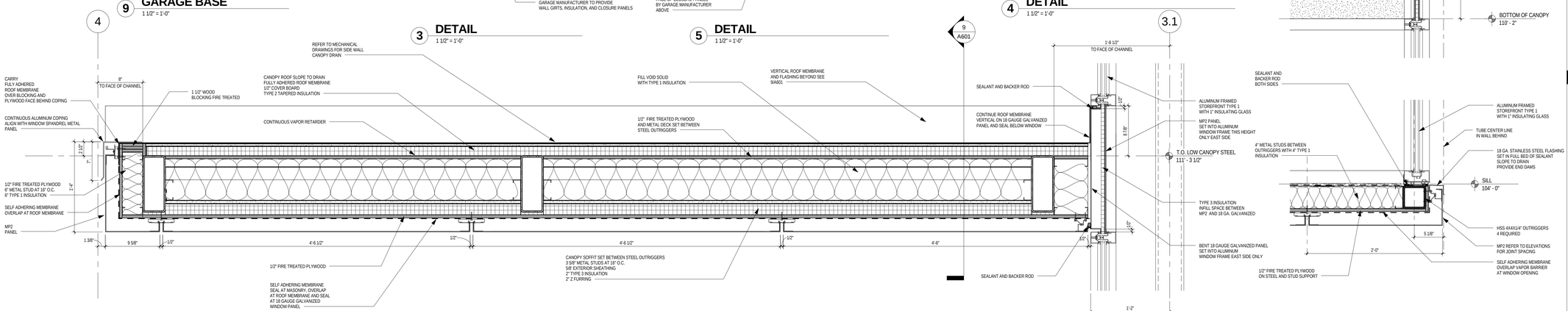
9 GARAGE BASE
1 1/2" = 1'-0"



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

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

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



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

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

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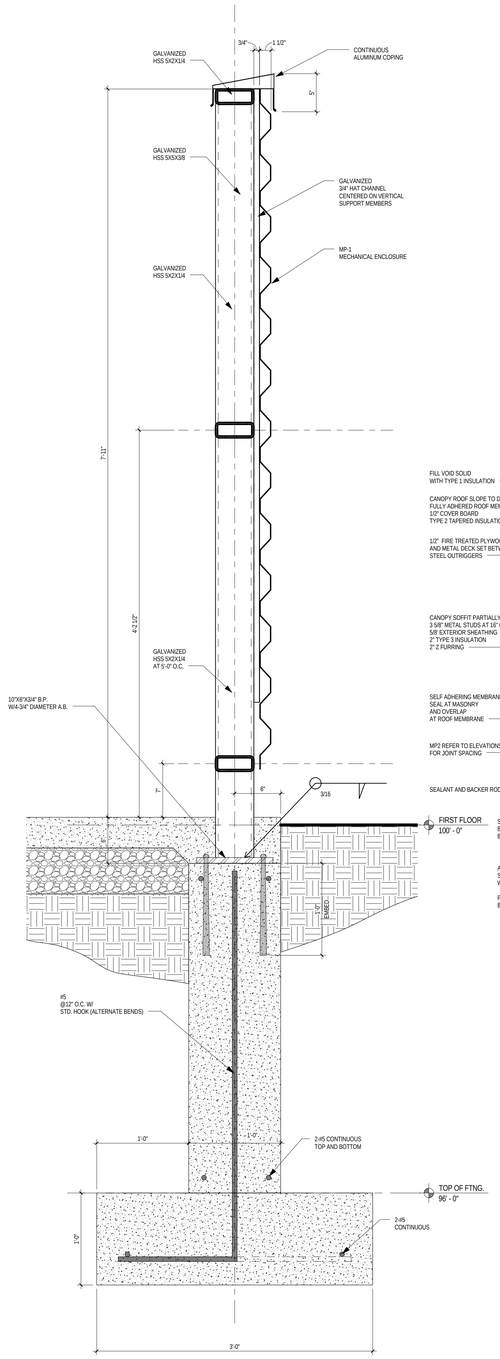
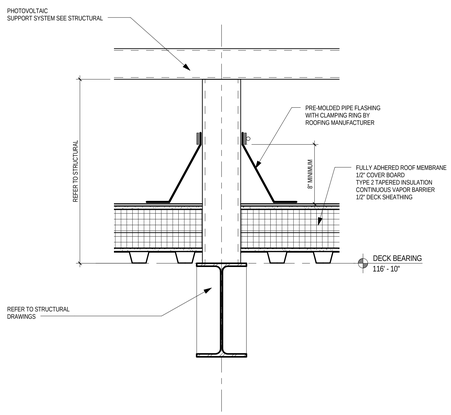
DRAWING
EXTERIOR DETAILS

DATE
01.12.15

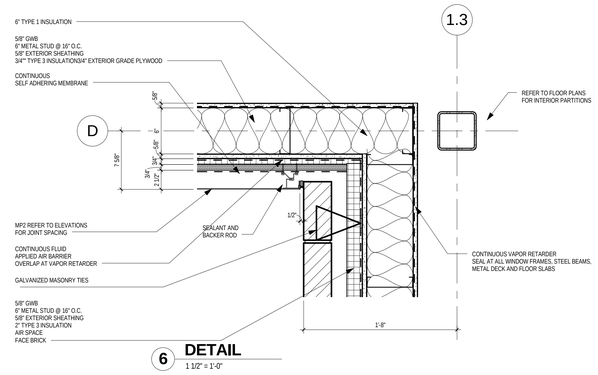
A604



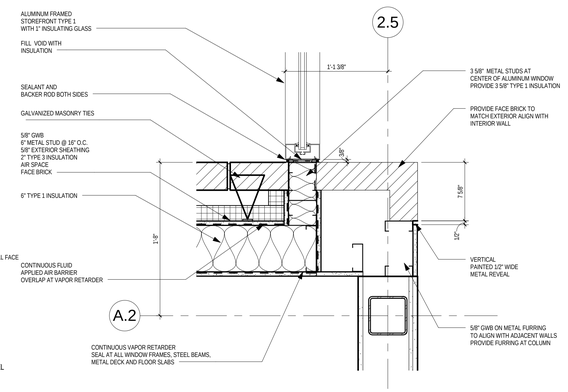
9 **DETAIL**
1 1/2" = 1'-0"



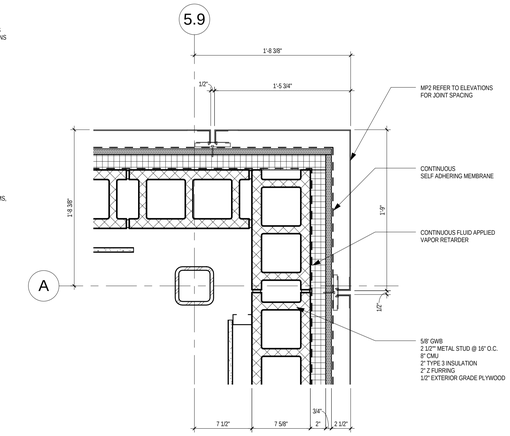
10 **DETAIL**
1 1/2" = 1'-0"



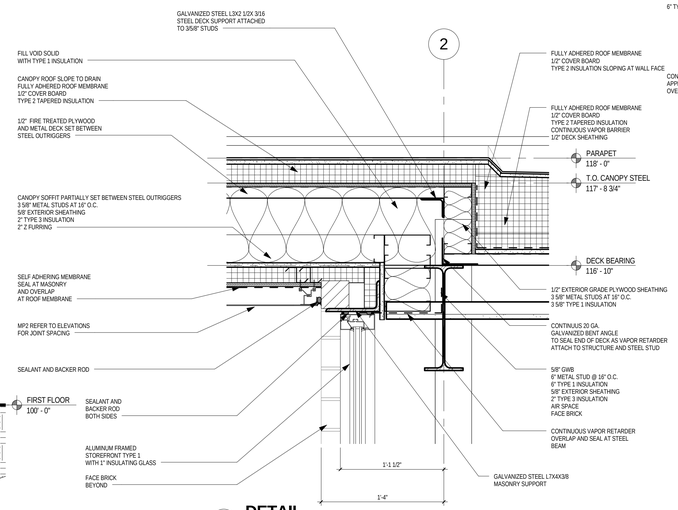
6 **DETAIL**
1 1/2" = 1'-0"



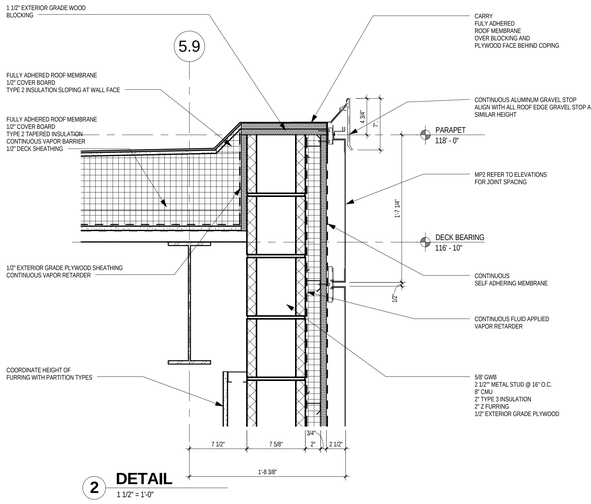
5 **DETAIL**
1 1/2" = 1'-0"



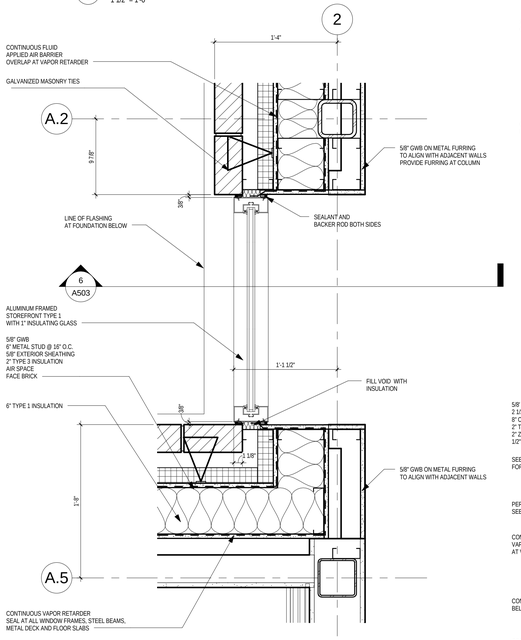
3 **DETAIL**
1 1/2" = 1'-0"



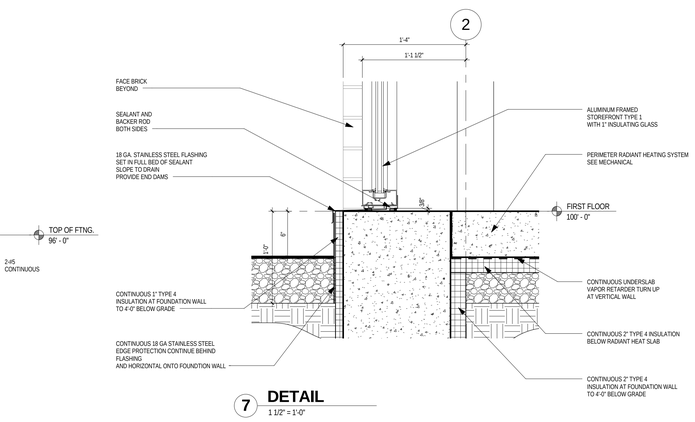
8 **DETAIL**
1 1/2" = 1'-0"



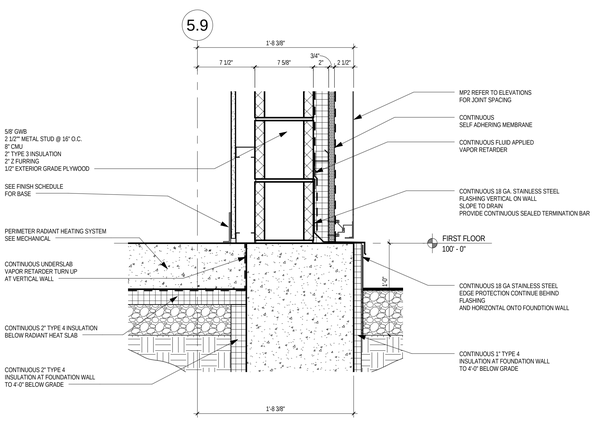
2 **DETAIL**
1 1/2" = 1'-0"



4 **DETAIL**
1 1/2" = 1'-0"



7 **DETAIL**
1 1/2" = 1'-0"



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

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01.12.15 CONSTRUCTION DOCUMENTS

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DATE
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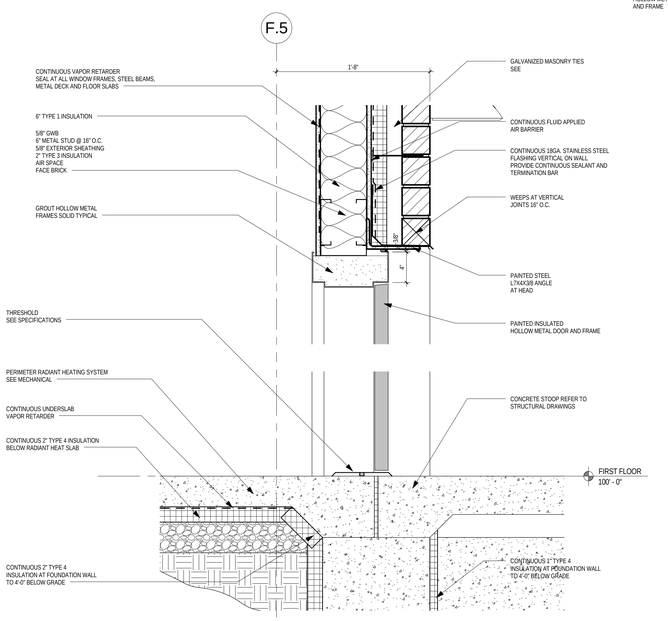
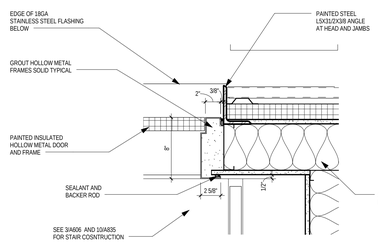
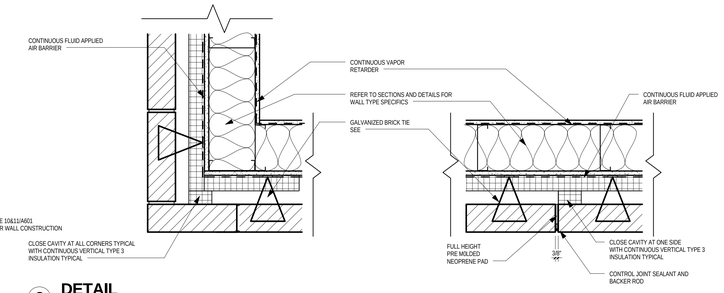


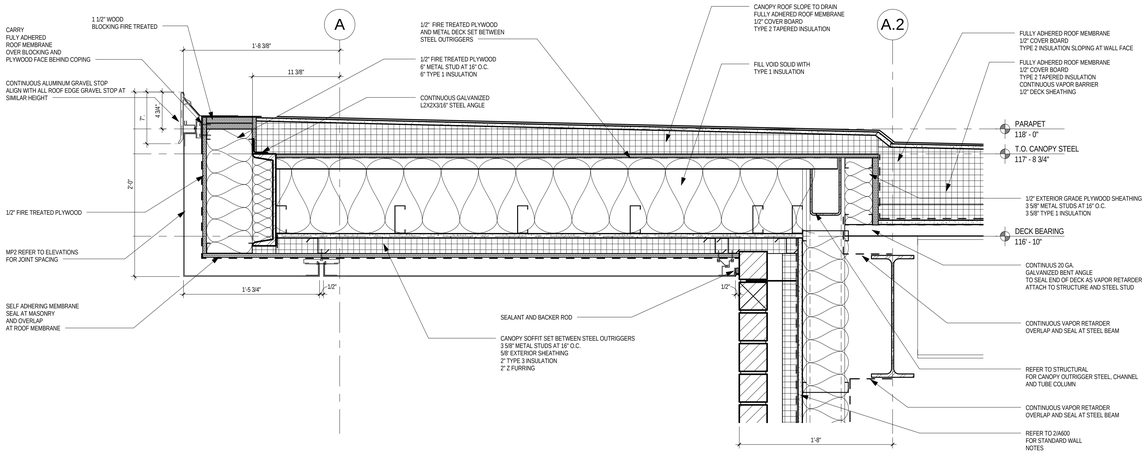
8 DETAIL
1 1/2" = 1'-0"



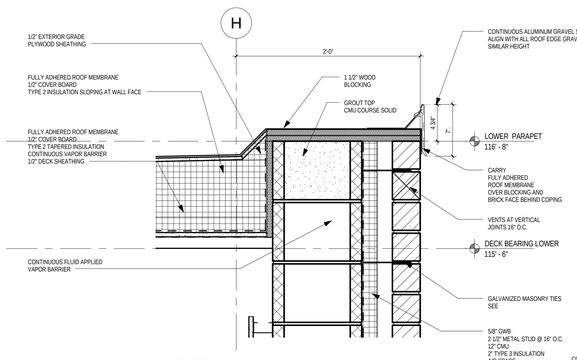
5 DETAIL
1 1/2" = 1'-0"



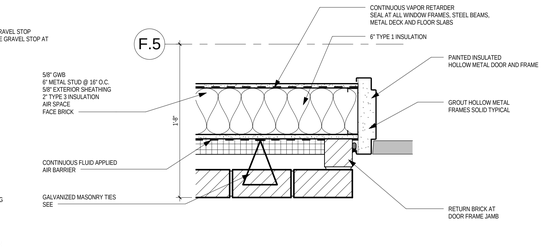
2 DETAIL
1 1/2" = 1'-0"



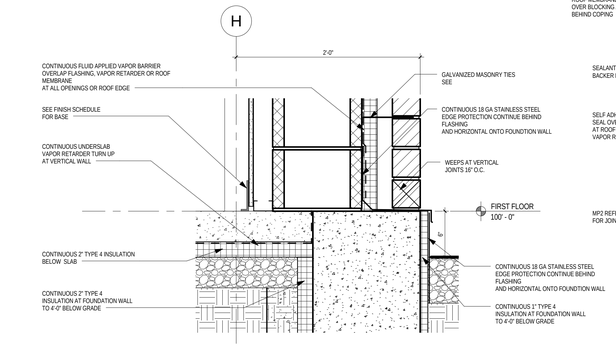
4 DETAIL
1 1/2" = 1'-0"



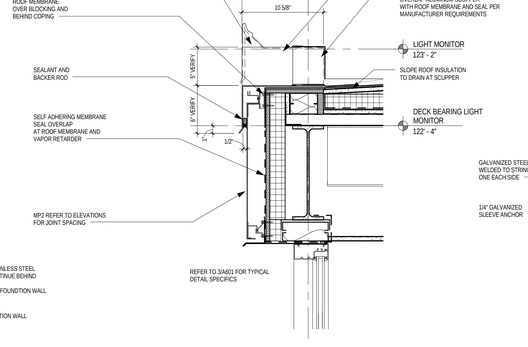
10 DETAIL
1 1/2" = 1'-0"



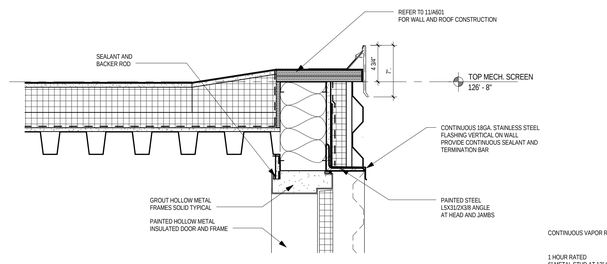
7 DETAIL
1 1/2" = 1'-0"

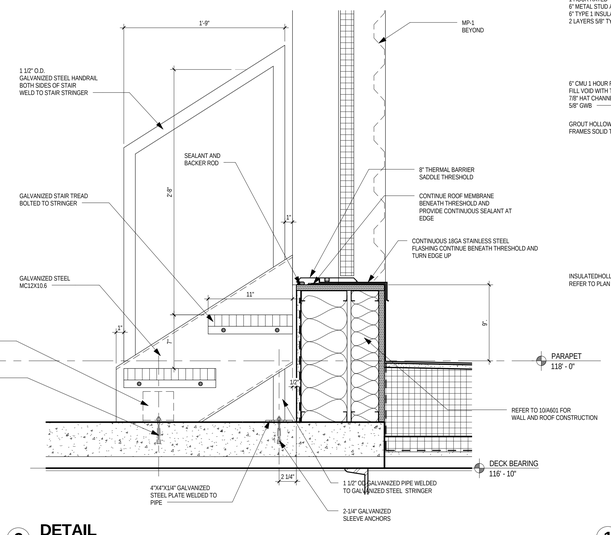


9 DETAIL
1 1/2" = 1'-0"

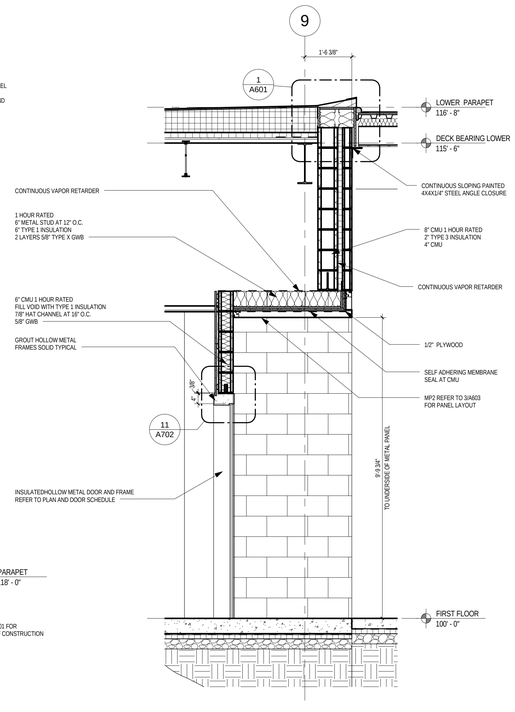


6 DETAIL
1 1/2" = 1'-0"





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



1 WALL SECTION DETAIL
1/2" = 1'-0"

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ISSUE
01.12.15 CONSTRUCTION DOCUMENTS

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BID NO.
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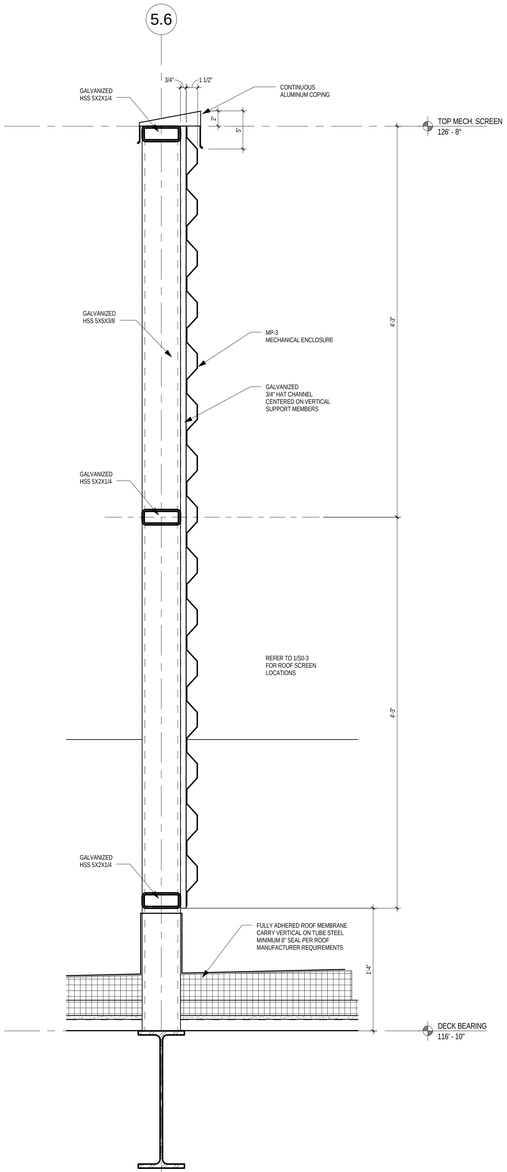
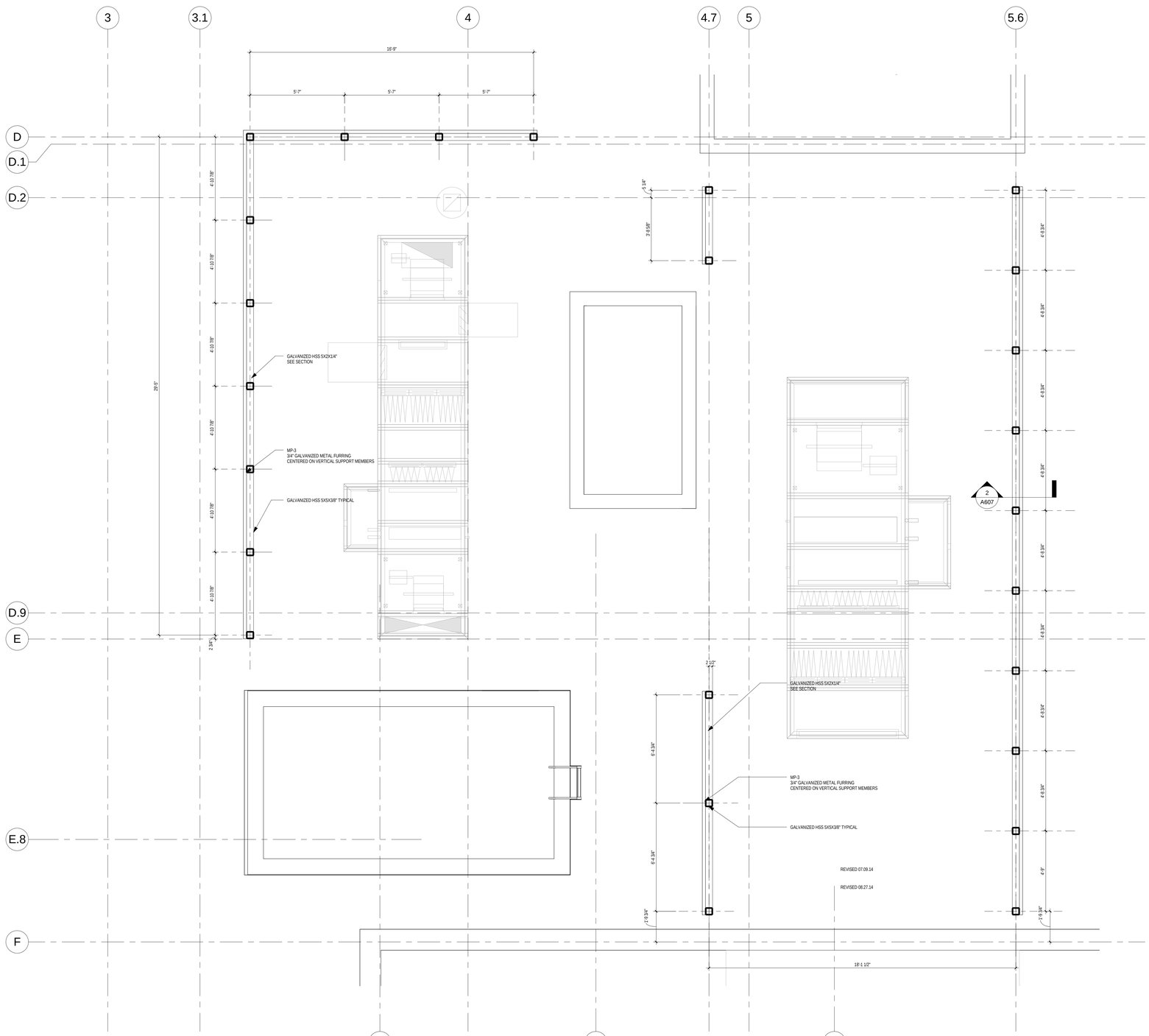
DRAWING
EXTERIOR DETAILS

DATE
01.12.15

A606



2 MECHANICAL SCREEN SECTION
1 1/2" = 1'-0"



1 MECHANICAL SCREEN PLAN
3/8" = 1'-0"

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01.12.15 CONSTRUCTION DOCUMENTS

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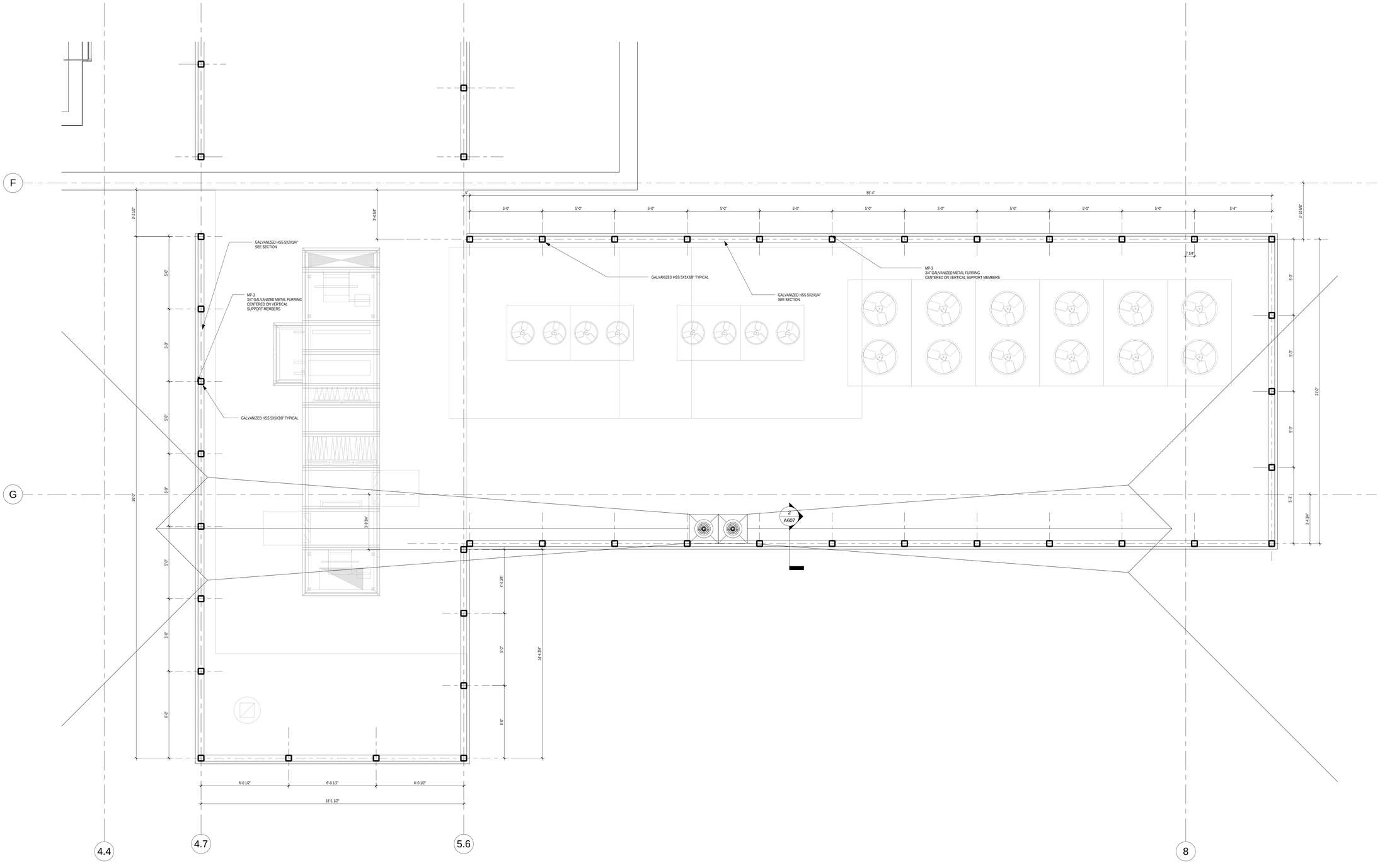
DRAWING
MECHANICAL SCREEN

DATE
01.12.15

A607



1 **MECHANICAL SCREEN PLAN**
3/8" = 1'-0"

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ISSUE
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MECHANICAL SCREEN SOUTH

DATE
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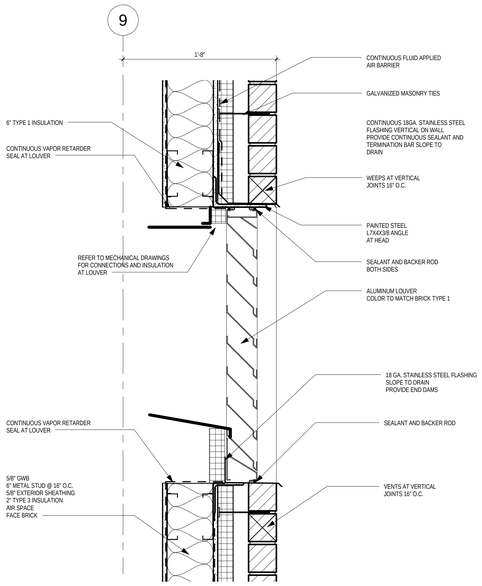
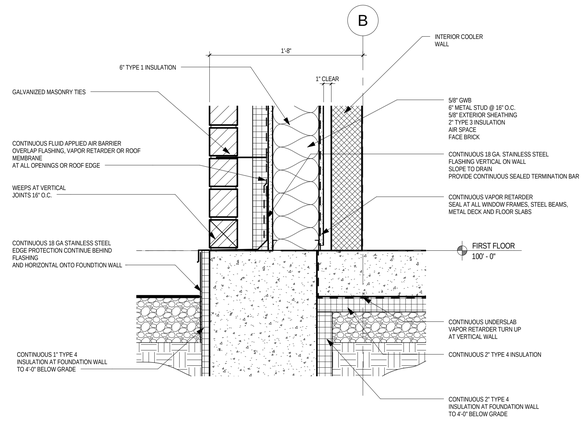
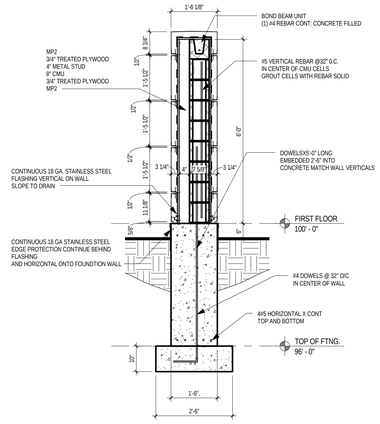


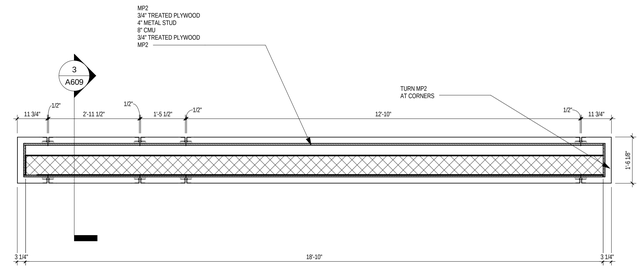
7 DETAIL
1 1/2" = 1'-0"

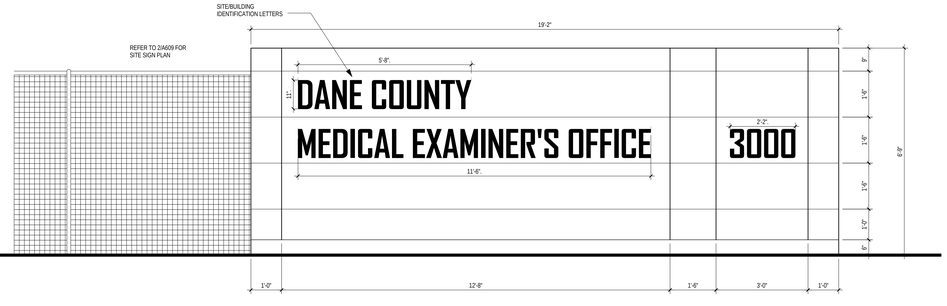


4 DETAIL
1 1/2" = 1'-0"

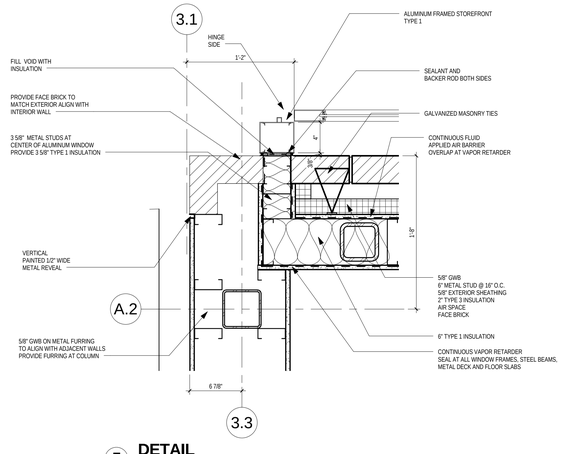


3 SITE SIGN SECTION
1/2" = 1'-0"

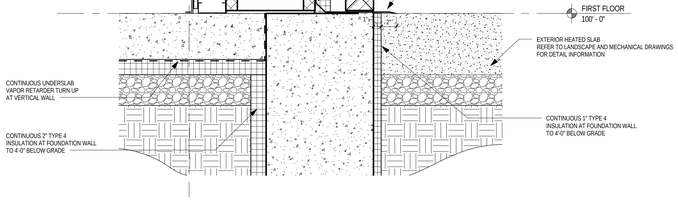




2 SITE SIGN PLAN
1/2" = 1'-0"



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



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

1 SITE SIGN ELEVATION
1/2" = 1'-0"

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DATE
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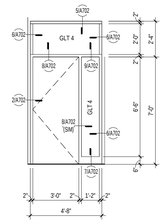
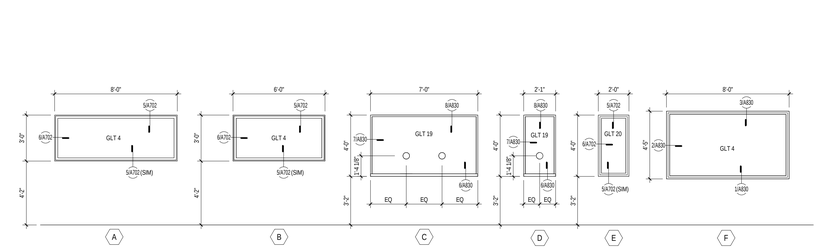
GENERAL NOTES

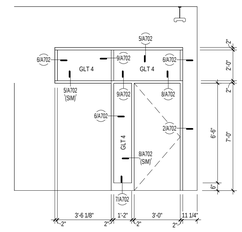
1. SEE SHEET A850 FOR PARTITION TYPES.
2. SEE SHEET A700 FOR BORROWED LIGHT ELEVATIONS. SEE SHEET A701 FOR DOOR AND FRAME ELEVATIONS AND DOOR SCHEDULE. SEE SHEET A703 FOR DOOR AND WINDOW FRAME DETAILS.
3. DIMENSIONS ARE TO FACE OF PAINTED SURFACE U.N.O.
4. COORDINATE FINAL LOCATION OF BORROWED LIGHTS OR WALLS WITH LAB CASEWORK DRAWINGS



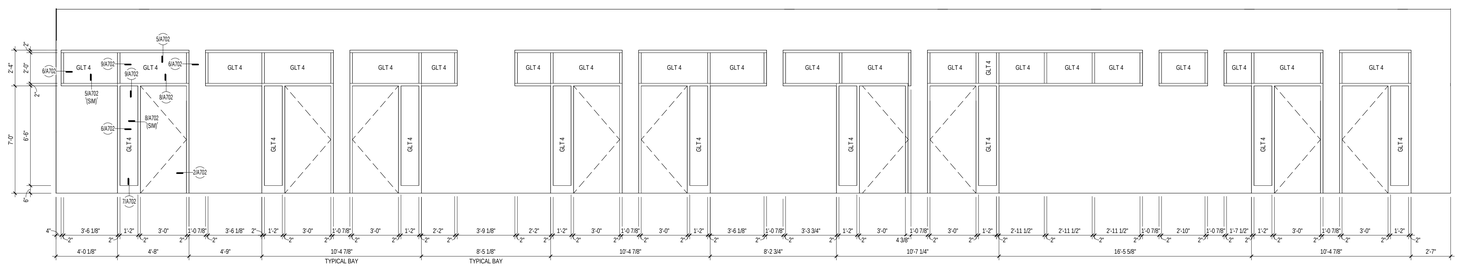
3 BORROWED LIGHT ELEVATIONS
1/4" = 1'-0"



4 BORROWED LIGHT ELEVATIONS
1/4" = 1'-0"



2 BORROWED LIGHT ELEVATIONS
1/4" = 1'-0"



1 BORROWED LIGHT ELEVATIONS
1/4" = 1'-0"

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01.12.15 CONSTRUCTION DOCUMENTS

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
BORROWED LIGHT ELEVATIONS

DATE
01.12.15

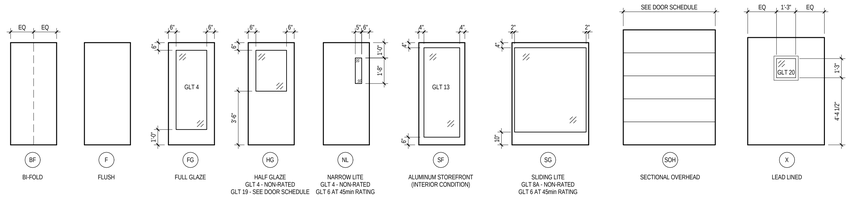
A700

DOOR SCHEDULE

DOOR NUMBER	QTY	DOOR WIDTH	DOOR HEIGHT	DOOR ELEV	DOOR MATERIAL	FRAME ELEV	FRAME MATERIAL	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	LABEL	HARDWARE SET	COMMENTS
FIRST FLOOR													
101	1	30	70	F	WD	1	HM	1 / A702	2 / A702	-	-	01	
102	1	30	70	F	WD	1	HM	1 / A702	2 / A702	-	-	02	
103	1	30	70	F	WD	1	HM	1 / A702	2 / A702	-	-	02	
104	1	30	70	F	WD	1	HM	12 / A702	13 / A702	-	-	02	
106 a	1/1	30/30	70	F/F	WD	1	HM	1 / A702	2 / A702	-	-	03	
106 b	1	30	70	F	WD	3	HM	3 / A701	3 / A701	-	-	04	CARD READER
106 c	1	30	70	F	WD	3	HM	3 / A701	3 / A701	-	-	05	
107	1	30	70	F	HM	2	HM	3 / A702	4 / A702	-	-	10	EF-3 TORNADO RESISTANT AND CARD READER
110	1	30	70	F	WD	1	HM	1 / A702	2 / A702	-	-	03A	
111	1	30	70	F	WD	1	HM	1 / A702	2 / A702	-	-	05	
115	1	30	70	F	WD	1 / A700	HM	1 / A700	1 / A700	-	-	06	
116	1	30	70	F	WD	1 / A700	HM	1 / A700	1 / A700	-	-	06	
117	1	30	70	F	WD	1 / A700	HM	1 / A700	1 / A700	-	-	06	
118	1	30	70	F	WD	1 / A700	HM	1 / A700	1 / A700	-	-	06	
119	1	30	70	F	WD	1 / A700	HM	1 / A700	1 / A700	-	-	06	
120	1	30	70	F	WD	1 / A700	HM	1 / A700	1 / A700	-	-	06	
121	1	30	70	F	WD	1 / A700	HM	1 / A700	1 / A700	-	-	06	
122	1	30	70	F	WD	1 / A700	HM	1 / A700	1 / A700	-	-	06	
123	1	30	70	F	WD	1 / A700	HM	1 / A700	1 / A700	-	-	06	
124	1	30	70	F	WD	2 / A700	HM	2 / A700	2 / A700	-	-	06	
125A	1/1	26/26	70	BF	WD	-	-	-	-	-	-	01B	
126	1	30	70	F	WD	3 / A700	HM	3 / A700	3 / A700	-	-	05	
130B	1	30	70	HG	SS	1	SS	1 / A702	2 / A702	-	-	06A	SEE NOTE 2
130C	1	30	70	F	SS	1	SS	1 / A702	2 / A702	-	-	03A	SEE NOTE 2
130D	1	30	70	F	SS	1	SS	1 / A702	2 / A702	-	-	05	SEE NOTE 2
130E a	1	50	70	-	-	-	-	-	-	-	-	-	BODY COOLER SUPPLIER AND CARD READER
130E b	1	50	70	-	-	-	-	-	-	-	-	-	BODY COOLER SUPPLIER AND CARD READER
130F	1	50	70	-	-	-	-	-	-	-	-	-	BODY COOLER SUPPLIER AND CARD READER
132	1	50	70	SG	SS	4	SS	1 / A703	2-3 / A703	-	-	15	SLIDING AUTOMATIC ENTRANCE
133	1	36	70	HG	SS	1	SS	1 / A702	2 / A702	-	-	06D	SEE NOTE 2
134	1	30	70	NL	SS	1	SS	1 / A702	2 / A702	-	-	06F	SEE NOTE 2
135	1	30	70	F	WD	1	HM	1 / A702	2 / A702	-	-	07	
137	1	30	70	F	WD	1	HM	1 / A702	2 / A702	-	-	07	
138A	1	30	70	F	-	1	-	1 / A702	2 / A702	-	-	17	WIRE MESH AND CARD READER
138B	1	30	70	F	HM	1	HM	1 / A702	2 / A702	-	-	10A	EF-3 TORNADO RESISTANT AND CARD READER
140 a	1/1	30/30	70	F	HM	2	HM	3 / A702	4 / A702	-	-	10B	EF-3 TORNADO RESISTANT AND CARD READER
140 b	1	30	70	F	WD	1	HM	1 / A702	2 / A702	-	-	04A	CARD READER
141	1	50	70	X	SS	4	SS	16 / A702	17 / A702	-	-	15	SLIDING AUTOMATIC ENTRANCE LEAD LINED DOOR WITH VISION LITE
143	1/1	30/30	70	F/F	HM	2	HM	3 / A702	4 / A702	-	C	03B	
144 a	1/1	26/26	70	SG/SG	SS	4	SS	16 / A702	17 / A702	-	-	14	SLIDING AUTOMATIC ENTRANCE AND CARD READER
144 b	1	50	70	SG	SS	4	SS	14 / A702	15-16 / A702	-	C	14	SLIDING AUTOMATIC ENTRANCE AND CARD READER
144A	1	46	70	NL	SS	1	SS	1 / A702	2 / A702	-	-	06E	SEE NOTE 2
144B	1	30	70	NL	SS	1	SS	1 / A702	2 / A702	-	-	06C	SEE NOTE 2
144C	1	30	70	HG	SS	1	SS	1 / A702	2 / A702	-	-	06C	SEE NOTE 2
144D	1	50	70	HG	SS	1	SS	1 / A702	2 / A702	-	-	06E	SEE NOTE 2
145	1/1	26/26	70	F/F	HM	2	HM	3 / A702	4 / A702	-	C	03C	
150 a	1	30	70	NL	HM	1	HM	-	-	-	-	04B	CARD READER
150 b	1	120	120	SOH	AL	-	ST	-	-	-	-	-	INSULATED SECTIONAL OVERHEAD DOOR AND ELECTRIC OPERATOR
150 c	1	120	140	SOH	AL	-	ST	-	-	-	-	-	INSULATED SECTIONAL OVERHEAD DOOR AND ELECTRIC OPERATOR
150 d	1	120	140	SOH	AL	-	ST	-	-	-	-	-	INSULATED SECTIONAL OVERHEAD DOOR AND ELECTRIC OPERATOR
150 e	1	120	140	SOH	AL	-	ST	-	-	-	-	-	INSULATED SECTIONAL OVERHEAD DOOR AND ELECTRIC OPERATOR
150 f	1	120	140	SOH	AL	-	ST	-	-	-	-	-	INSULATED SECTIONAL OVERHEAD DOOR AND ELECTRIC OPERATOR
150 g	1	120	140	SOH	AL	-	ST	-	-	-	-	-	INSULATED SECTIONAL OVERHEAD DOOR AND ELECTRIC OPERATOR
150 h	1	120	140	SOH	AL	-	ST	-	-	-	-	-	INSULATED SECTIONAL OVERHEAD DOOR AND ELECTRIC OPERATOR
150 j	1	120	140	SOH	AL	-	ST	-	-	-	-	-	INSULATED SECTIONAL OVERHEAD DOOR AND ELECTRIC OPERATOR
150 k	1	120	140	SOH	AL	-	ST	-	-	-	-	-	INSULATED SECTIONAL OVERHEAD DOOR AND ELECTRIC OPERATOR
150 m	1	180	120	SOH	AL	-	ST	-	-	-	-	-	INSULATED SECTIONAL OVERHEAD DOOR AND ELECTRIC OPERATOR
150 n	1	30	70	NL	HM	1	HM	-	-	-	-	04B	CARD READER
151	1	30	70	F	HM	2	HM	3 / A702	4 / A702	-	C	03D	
152	1	30	70	F	HM	2	HM	3 / A702	4 / A702	-	-	03A	
153	1	30	70	F	HM	2	HM	3 / A702	4 / A702	-	-	03A	
154 a	1/1	30/30	70	F/F	HM	1	HM	1 / A702	2 / A702	-	-	11	
154 b	1/1	30/30	70	F/F	HM	2	HM	3 / A702	4 / A702	-	-	11	
157	1	30	70	F	WD	1	HM	1 / A702	2 / A702	-	-	02	
158	1	30	70	F	WD	1	HM	1 / A702	2 / A702	-	-	02	
1000 a	1	30	70	SF	AL	-	AL	-	-	-	-	08A	ADMIN RELEASE BUTTON AND CARD READER
1000 b	1	30	70	SF	AL	-	AL	-	-	-	-	08	CARD READER
1001	1	30	70	HG	WD	1	HM	1 / A702	2 / A702	-	-	12	BULLET RESISTANT DOOR , FRAME, AND GLT 19 GLAZING - ADMIN RELEASE BUTTON AND CARD READER
1002 a	1	30	70	F	WD	1	HM	1 / A702	2 / A702	-	-	04	CARD READER
1002 b	1	30	70	NL	WD	1	HM	1 / A702	2 / A702	-	-	04	CARD READER
1008 a	1	30	70	NL	WD	1	HM	1 / A702	2 / A702	-	-	04	CARD READER
1008 b	1	30	70	NL	WD	1	HM	1 / A702	2 / A702	-	-	04D	CARD READER
1008 c	1/1	30/10	70	NL/F	HM	2	HM	11 / A702	10 / A702	-	C	04E	CARD READER
1009 a	1	30	70	SF	AL	1	AL	-	-	-	-	08C	CARD READER
1009 b	1	30	70	SF	AL	-	AL	-	-	-	-	08B	CARD READER
1009 c	1	30	70	F	HM	1	HM	-	-	-	-	10D	EF-3 TORNADO RESISTANT AND CARD READER
1010	1	30	70	NL	SS	1	SS	1 / A702	2 / A702	-	-	04F	CARD READER
1011a	1	30	70	HG	SS	1	SS	1 / A702	2 / A702	-	-	04F	CARD READER
1011b	1	30	70	HG	SS	1	SS	1 / A702	2 / A702	-	-	04F	CARD READER
1012 a	1/1	23/23	70	BF	WD	7	-	-	-	-	-	13	
1012 b	1	30	70	F	HM	2	HM	3 / A702	4 / A702	-	-	10C	EF-3 TORNADO RESISTANT
1013 a	1/1	20/20	70	F	WD	1	HM	1 / A702	2 / A702	-	-	09	
1013 b	1/1	20/20	70	F	WD	1	HM	1 / A702	2 / A702	-	-	09	
1013 c	1/1	20/20	70	F	WD	1	HM	1 / A702	2 / A702	-	-	09	
1013 d	1/1	20/20	70	F	WD	1	HM	1 / A702	2 / A702	-	-	09	
PENTHOUSE													
200	1	30	70	F	HM	1	HM	-	-	-	-	19	KEY TO ENTER AND KEY TO EXIT

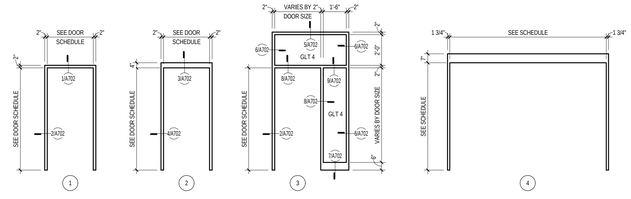
DOOR SCHEDULE GENERAL NOTES

1. PAINT ALL HOLLOW METAL FRAMES / DOORS TO MATCH ARCHITECTS SAMPLE.
2. FRAME TO HAVE CUT-OFF STOPS.



2 DOOR TYPE ELEVATIONS

1/4" = 1'-0"



1 DOOR FRAME ELEVATIONS

1/4" = 1'-0"

DORSCHNER ASSOCIATES

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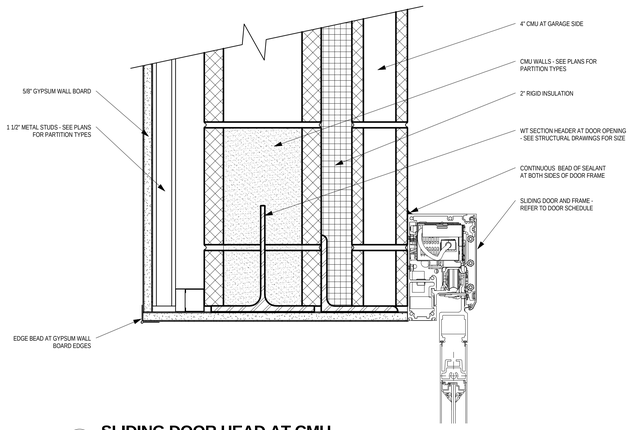
PROJECT
MEDICAL EXAMINER OFFICE
BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

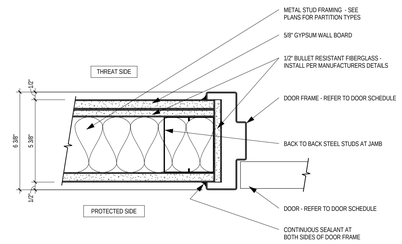
BID NO.
313083

DRAWING
DOOR AND FRAME
ELEVATIONS AND SCHEDULE

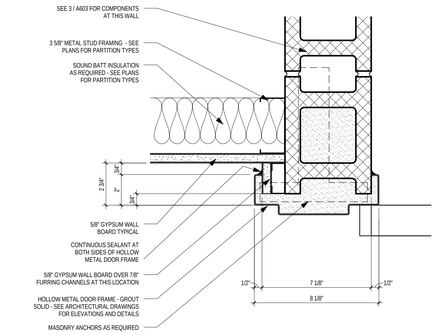
DATE
01.12.15



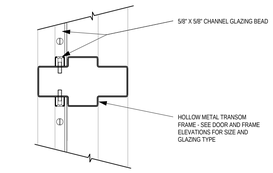
14 SLIDING DOOR HEAD AT CMU
3" = 1'-0"



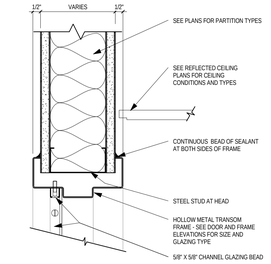
13 DOOR JAMB AT SECURE WALLS
3" = 1'-0"



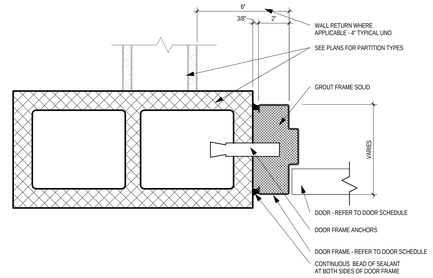
10 DOOR JAMB TO GARAGE
3" = 1'-0"



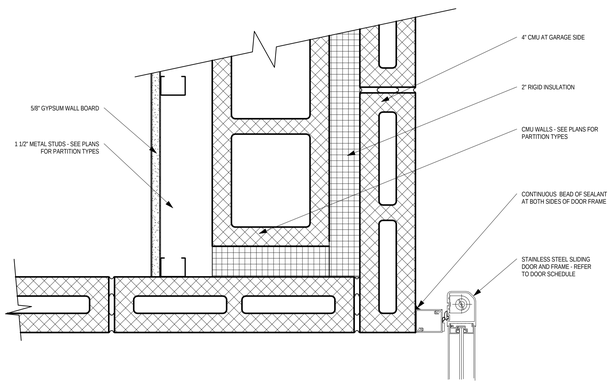
9 TRANSOM BAR
3" = 1'-0"



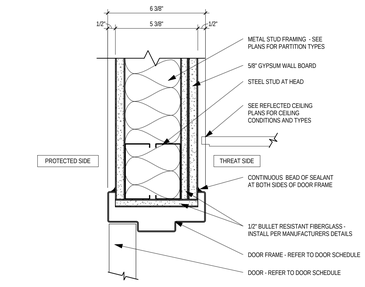
5 SIDELITE HEAD
3" = 1'-0"



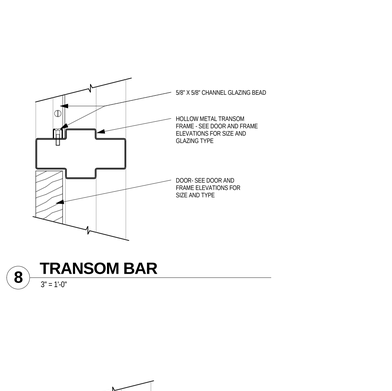
4 HOLLOW METAL DOOR JAMB AT CMU
3" = 1'-0"



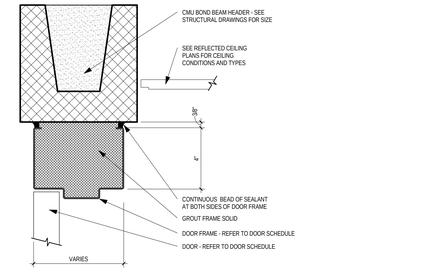
16 SLIDING DOOR JAMB AT CMU
3" = 1'-0"



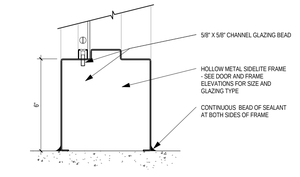
12 DOOR HEAD AT SECURE WALLS
3" = 1'-0"



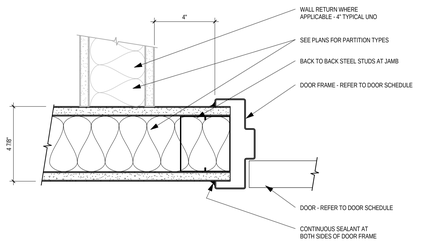
8 TRANSOM BAR
3" = 1'-0"



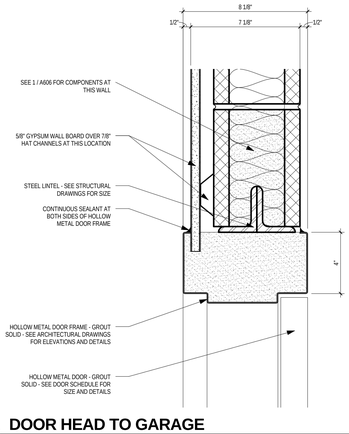
3 HOLLOW METAL DOOR HEAD AT CMU
3" = 1'-0"



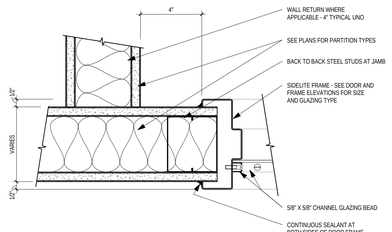
7 SIDELITE SILL
3" = 1'-0"



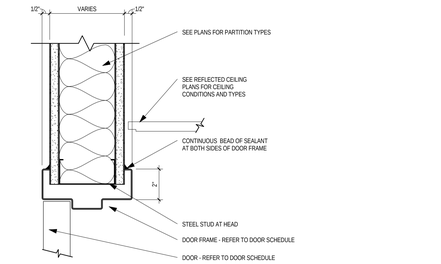
2 HOLLOW METAL DOOR JAMB AT GWB
3" = 1'-0"



11 DOOR HEAD TO GARAGE
3" = 1'-0"



6 SIDELITE JAMB
3" = 1'-0"



1 HOLLOW METAL DOOR HEAD AT GWB
3" = 1'-0"

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BID NO.
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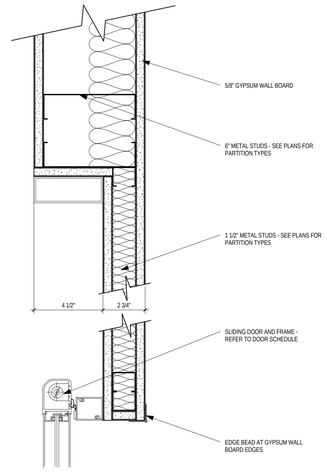
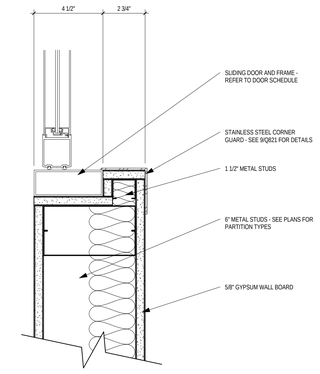
DRAWING
DOOR AND WINDOW FRAME DETAILS

DATE
01.12.15



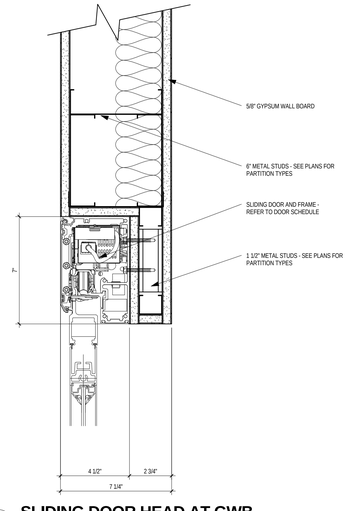
3 SLIDING DOOR JAMB AT GWB

3" = 1'-0"



2 SLIDING DOOR JAMB AT GWB

3" = 1'-0"



1 SLIDING DOOR HEAD AT GWB

3" = 1'-0"

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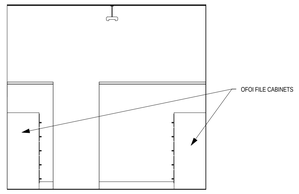
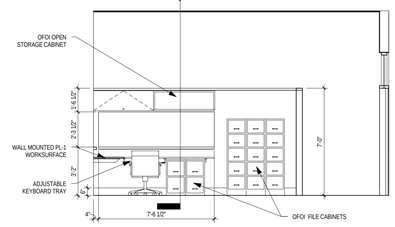


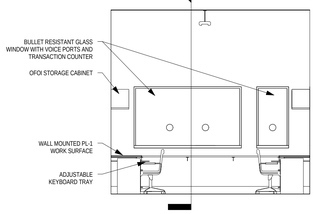
30 COPY / ADMINISTRATIVE
1/4" = 1'-0"

10 / A820

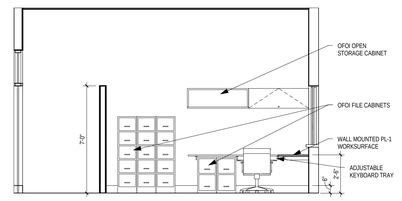


29 COPY / ADMINISTRATIVE
1/4" = 1'-0"

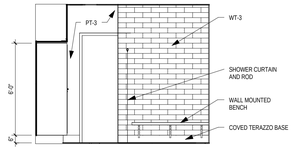
8 / A820



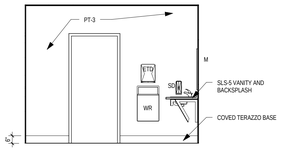
28 COPY / ADMINISTRATIVE
1/4" = 1'-0"



27 COPY / ADMINISTRATIVE
1/4" = 1'-0"

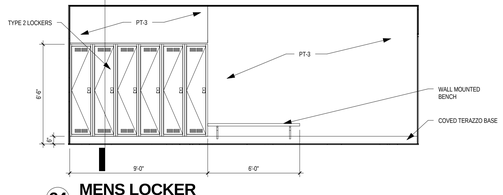


26 MENS LOCKER
1/4" = 1'-0"

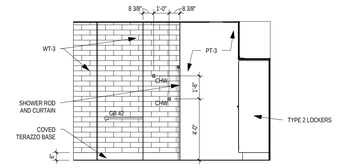


1 / A820

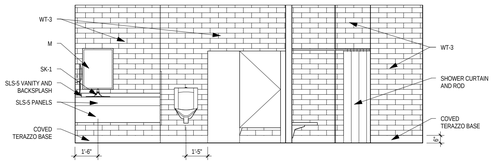
25 MENS LOCKER
1/4" = 1'-0"



24 MENS LOCKER
1/4" = 1'-0"

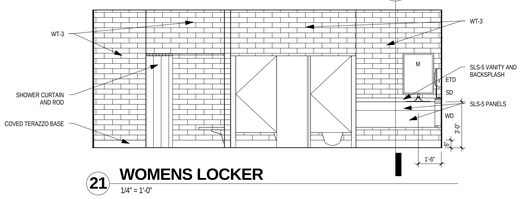


23 MENS LOCKER
1/4" = 1'-0"

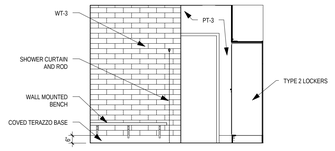


22 MENS LOCKER
1/4" = 1'-0"

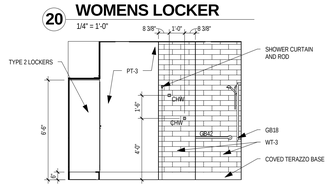
2 / A820



21 WOMENS LOCKER
1/4" = 1'-0"

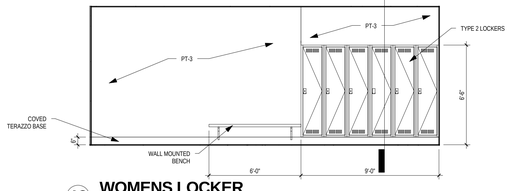


20 WOMENS LOCKER
1/4" = 1'-0"

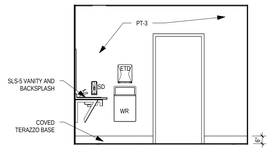


19 WOMENS LOCKER
1/4" = 1'-0"

1 / A820

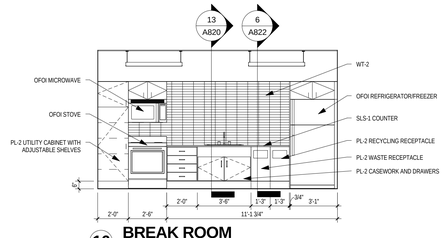


18 WOMENS LOCKER
1/4" = 1'-0"

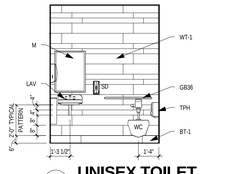


17 WOMENS LOCKER
1/4" = 1'-0"

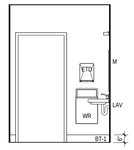
13 / A820 — 6 / A822



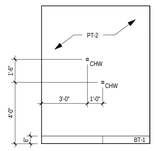
16 BREAK ROOM
1/4" = 1'-0"



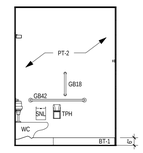
15 UNISEX TOILET
1/4" = 1'-0"



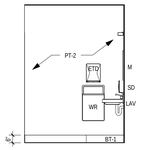
14 UNISEX TOILET
1/4" = 1'-0"



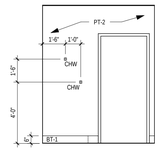
13 UNISEX TOILET
1/4" = 1'-0"



12 UNISEX TOILET
1/4" = 1'-0"



11 MENS TOILET
1/4" = 1'-0"



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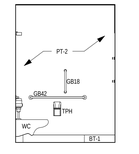
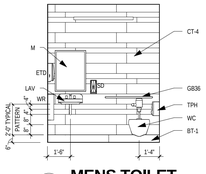
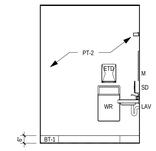
1/4" = 1'-0"



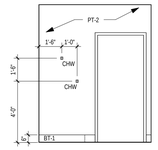
9 MENS TOILET
1/4" = 1'-0"



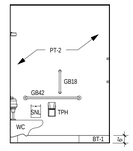
8 MENS TOILET
1/4" = 1'-0"



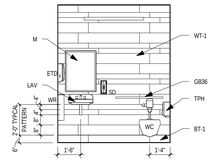
7 WOMENS TOILET
1/4" = 1'-0"



6 WOMENS TOILET
1/4" = 1'-0"

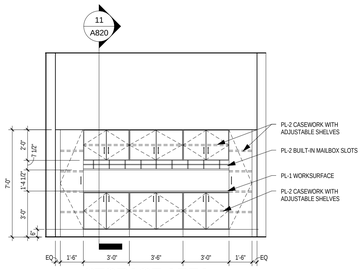


5 WOMENS TOILET
1/4" = 1'-0"



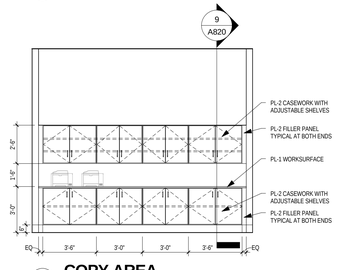
4 WOMENS TOILET
1/4" = 1'-0"

11 / A820



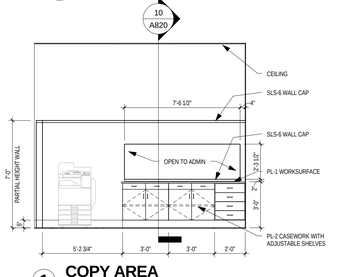
3 STORAGE AREA
1/4" = 1'-0"

9 / A820



2 COPY AREA
1/4" = 1'-0"

10 / A820



1 COPY AREA
1/4" = 1'-0"

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ISSUE
01.12.15 CONSTRUCTION DOCUMENTS

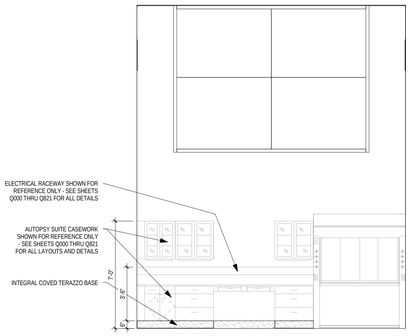
PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

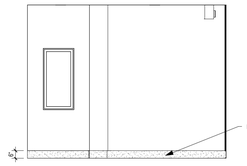
BID NO.
313083

DRAWING
INTERIOR ELEVATIONS

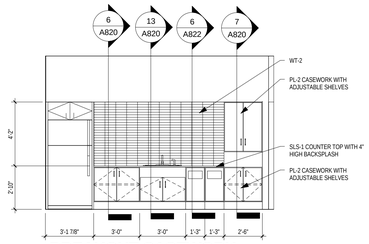
DATE
01.12.15



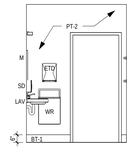
24 DECOMPOSITION AUTOPSY
1/4" = 1'-0"



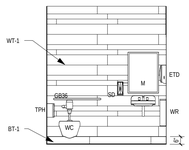
23 X-RAY
1/4" = 1'-0"



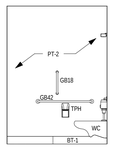
18 BREAKOUT CASEWORK
1/4" = 1'-0"



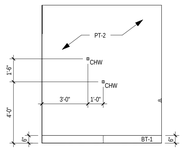
13 UNISEX TOILET
1/4" = 1'-0"



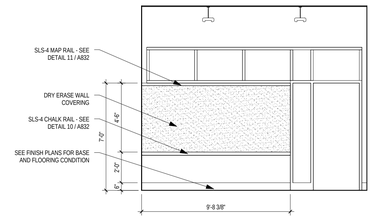
12 UNISEX TOILET
1/4" = 1'-0"



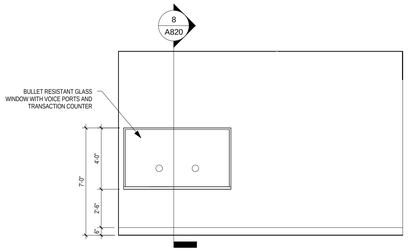
11 UNISEX TOILET
1/4" = 1'-0"



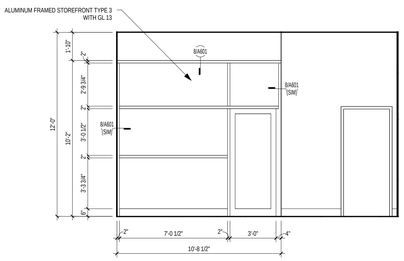
10 UNISEX TOILET
1/4" = 1'-0"



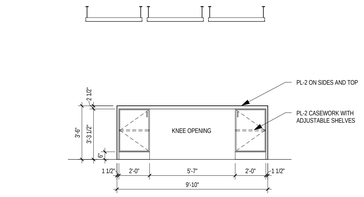
6 DEPUTY
1/4" = 1'-0"



5 LOBBY
1/4" = 1'-0"



4 LOBBY
1/4" = 1'-0"



25 911 BREAKROOM
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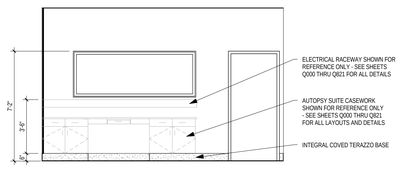
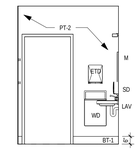
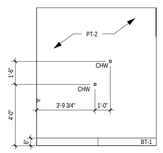


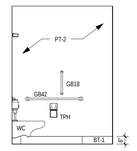
22 BODY / RECEIVING PROCESS
1/4" = 1'-0"



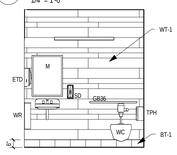
17 UNISEX TOILET
1/4" = 1'-0"



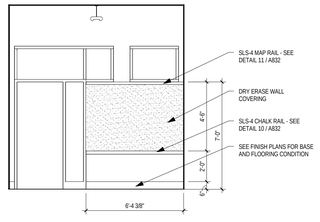
16 UNISEX TOILET
1/4" = 1'-0"



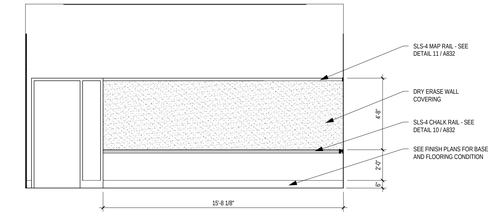
15 UNISEX TOILET
1/4" = 1'-0"



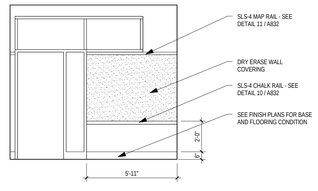
14 UNISEX TOILET
1/4" = 1'-0"



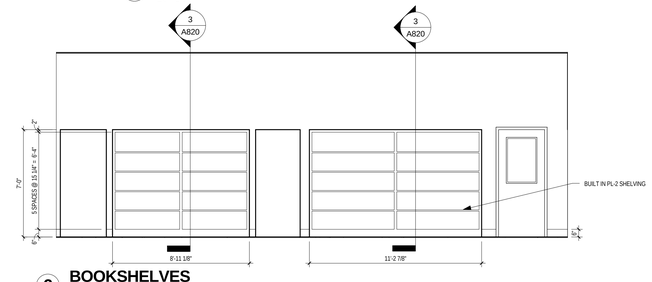
9 DIRECTOR
1/4" = 1'-0"



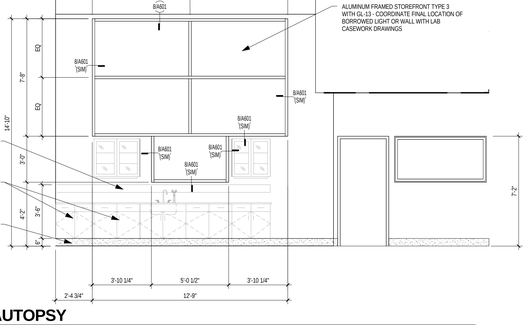
3 LARGE CONFERENCE ROOM
1/4" = 1'-0"



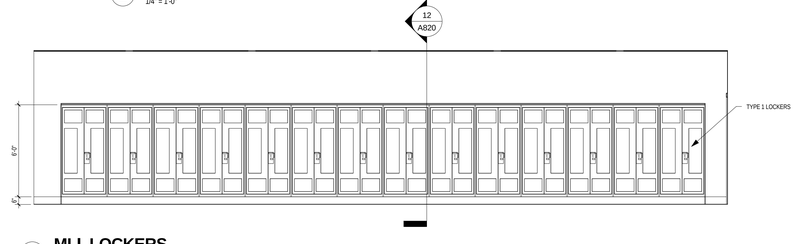
8 MLI
1/4" = 1'-0"



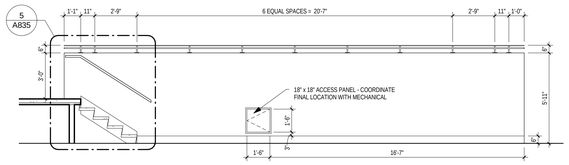
2 BOOKSHELVES
1/4" = 1'-0"



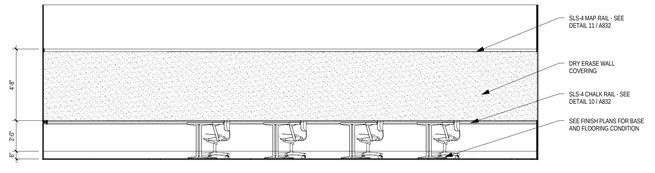
21 AUTOPSY
1/4" = 1'-0"



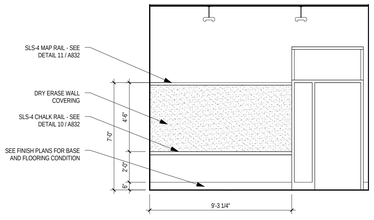
1 MLI LOCKERS
1/4" = 1'-0"



20 RAILING ELEVATION
1/4" = 1'-0"



19 LARGE CONFERENCE ROOM
1/4" = 1'-0"



7 ME OFFICE
1/4" = 1'-0"

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849 E. Washington Ave., Ste. 112
Madison, Wisconsin 53703
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ISSUE
01.12.15 CONSTRUCTION DOCUMENTS

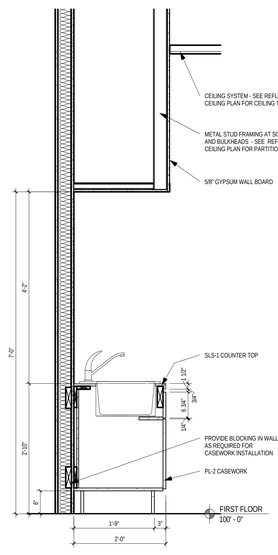
PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

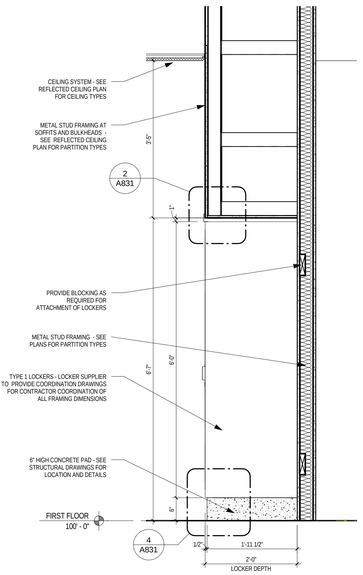
DRAWING
INTERIOR ELEVATIONS

DATE
01.12.15

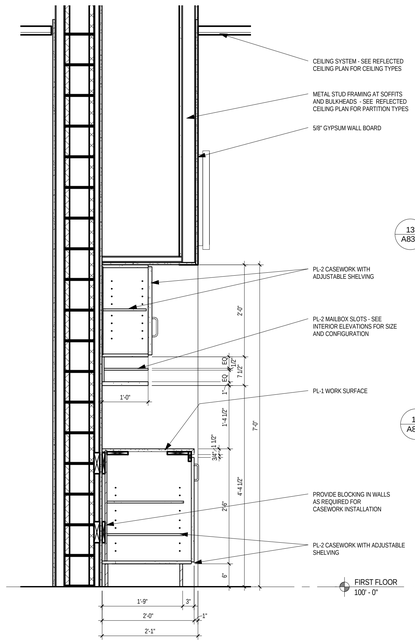
A801



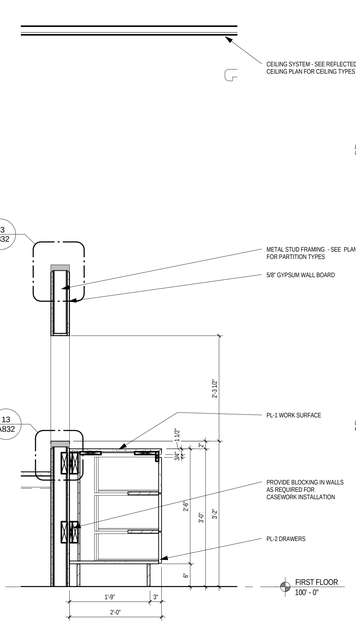
13 SECTION AT CASEWORK
3/4" = 1'-0"



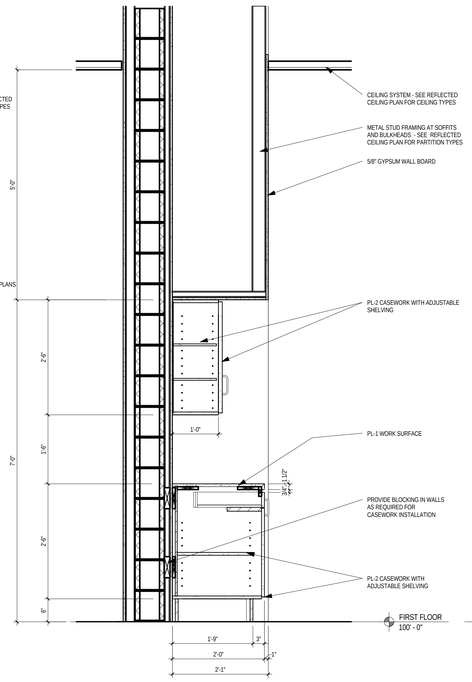
12 SECTION AT MLI LOCKERS
3/4" = 1'-0"



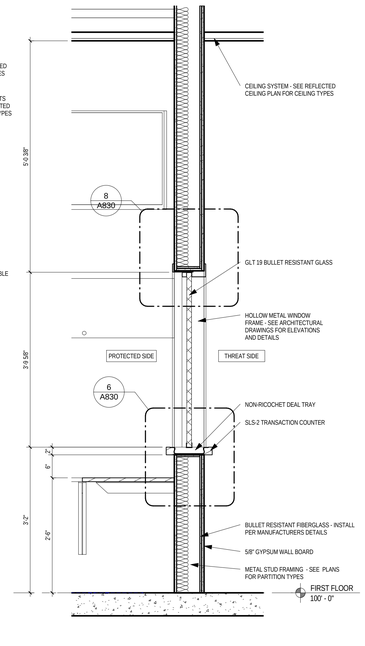
11 CASEWORK SECTION
3/4" = 1'-0"



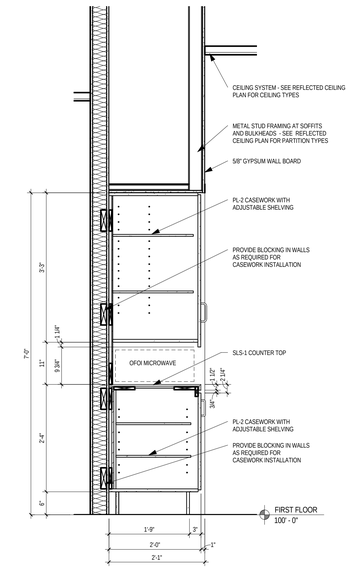
10 CASEWORK SECTION
3/4" = 1'-0"



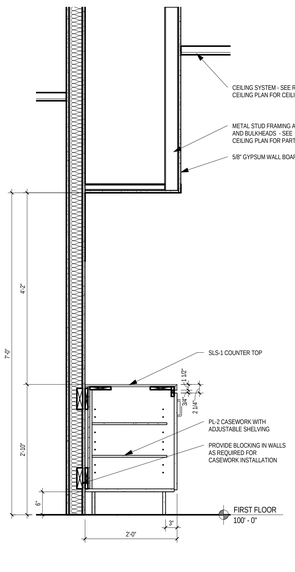
9 CASEWORK SECTION
3/4" = 1'-0"



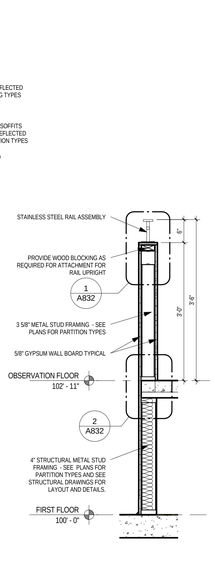
8 TRANSACTION WINDOW SECTION
3/4" = 1'-0"



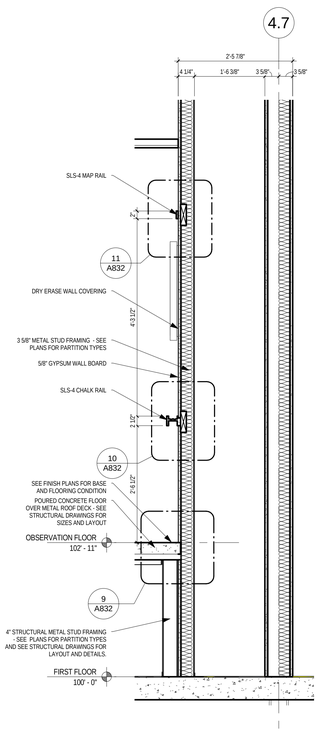
7 SECTION AT MICROWAVE ALCOVE
3/4" = 1'-0"



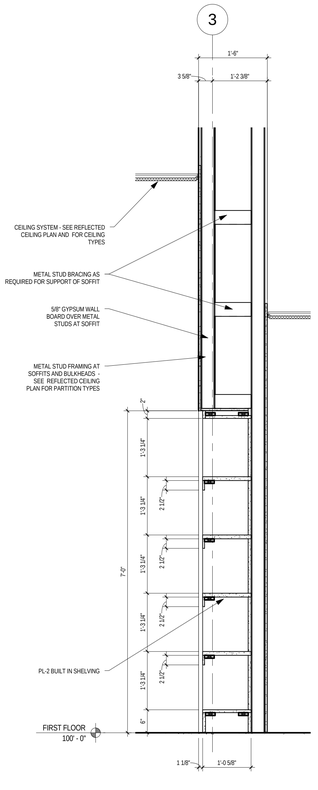
6 SECTION AT SINK
3/4" = 1'-0"



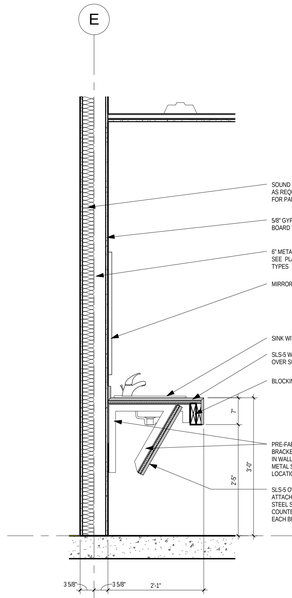
5 RAILING
3/4" = 1'-0"



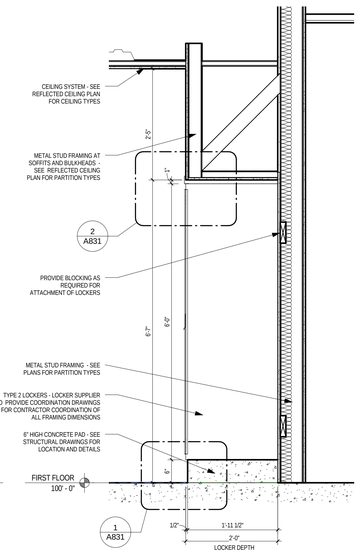
4 SECTION AT CHALK RAIL
3/4" = 1'-0"



3 BUILT IN SHELVING SECTION
3/4" = 1'-0"



2 SECTION AT LOCKER VANITY
3/4" = 1'-0"



1 LOCKER SECTION
3/4" = 1'-0"

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ISSUE
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3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

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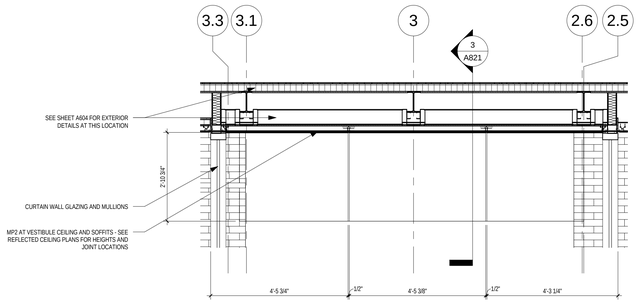
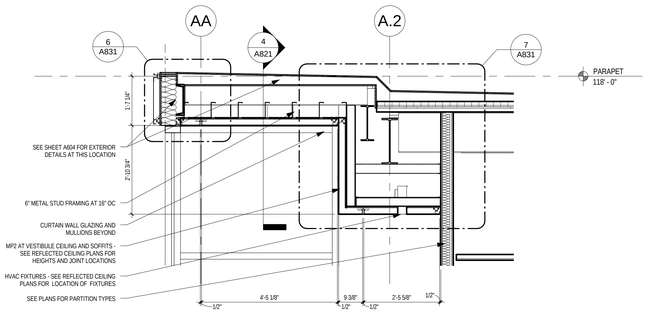
DATE
01.12.15



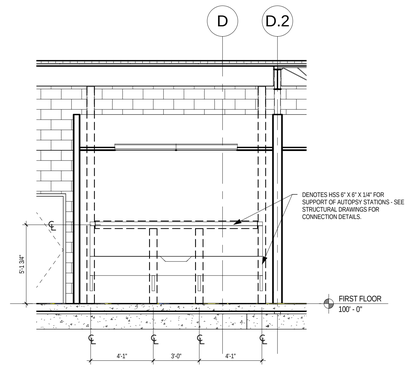
4 METAL PANEL CEILING AT VESTIBULE

1/2" = 1'-0"



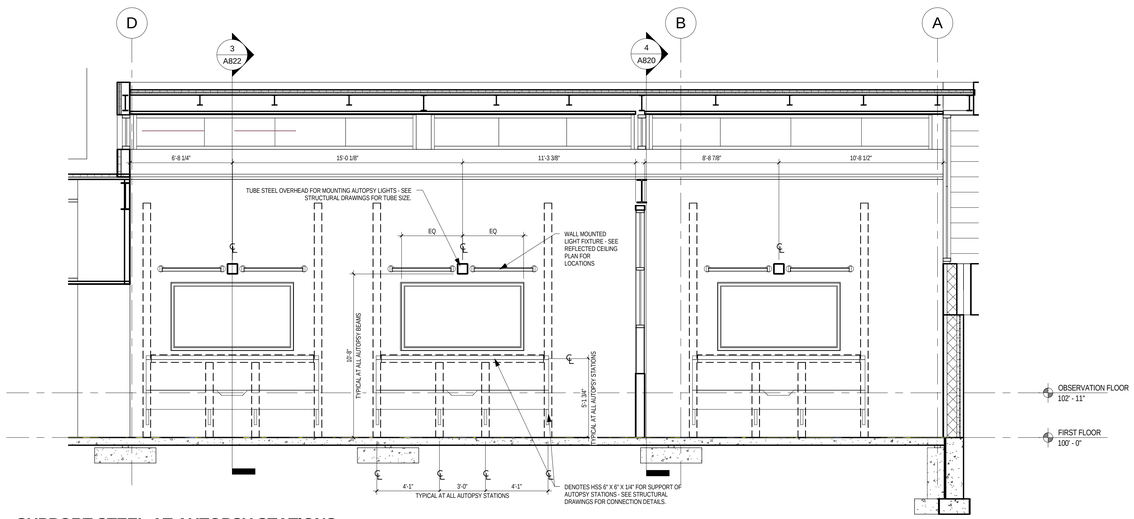
3 METAL PANEL CEILING AT VESTIBULE

1/2" = 1'-0"



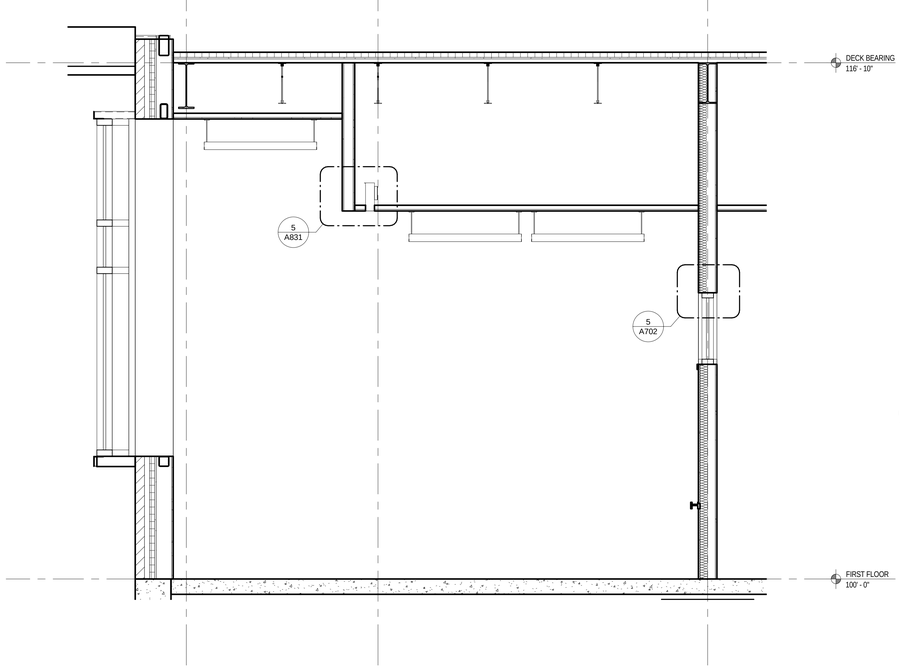
6 SUPPORT STEEL AT AUTOPSY STATIONS

1/4" = 1'-0"



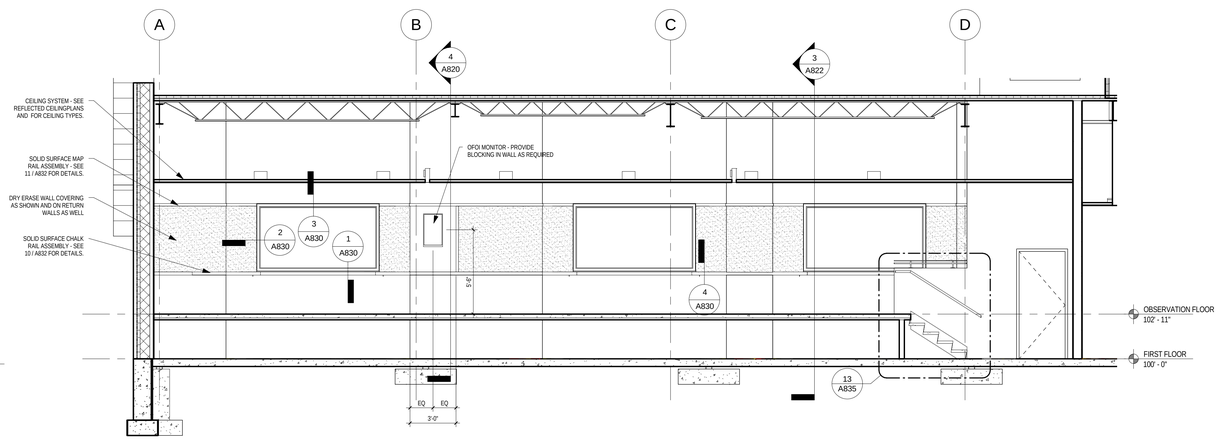
2 SUPPORT STEEL AT AUTOPSY STATIONS

1/4" = 1'-0"



5 DIRECTOR OFFICE SECTION

1/2" = 1'-0"



1 SECTION AT AUTOPSY VIEWING

1/4" = 1'-0"

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ISSUE
01.12.15 CONSTRUCTION DOCUMENTS

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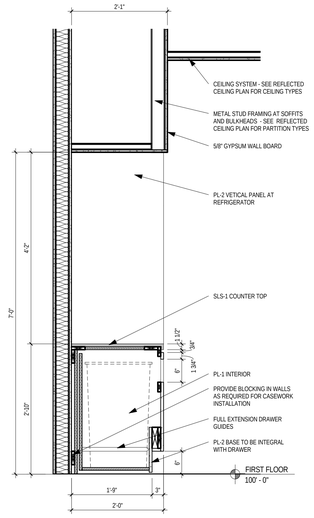
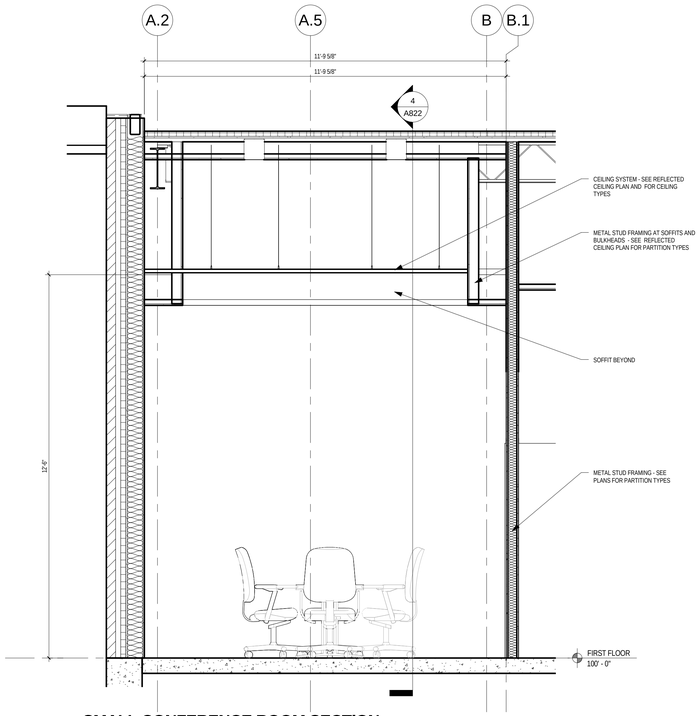
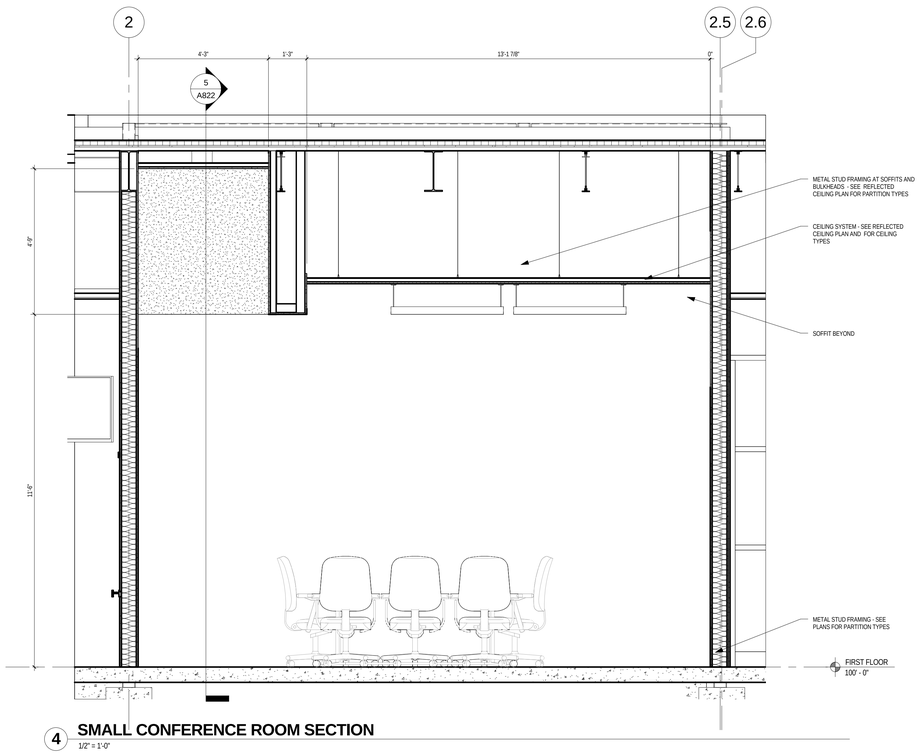


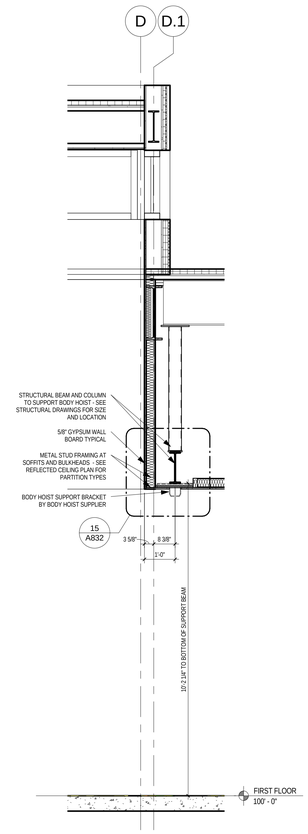
6 COUNTER WITH RECYCLE BIN
3/4" = 1'-0"



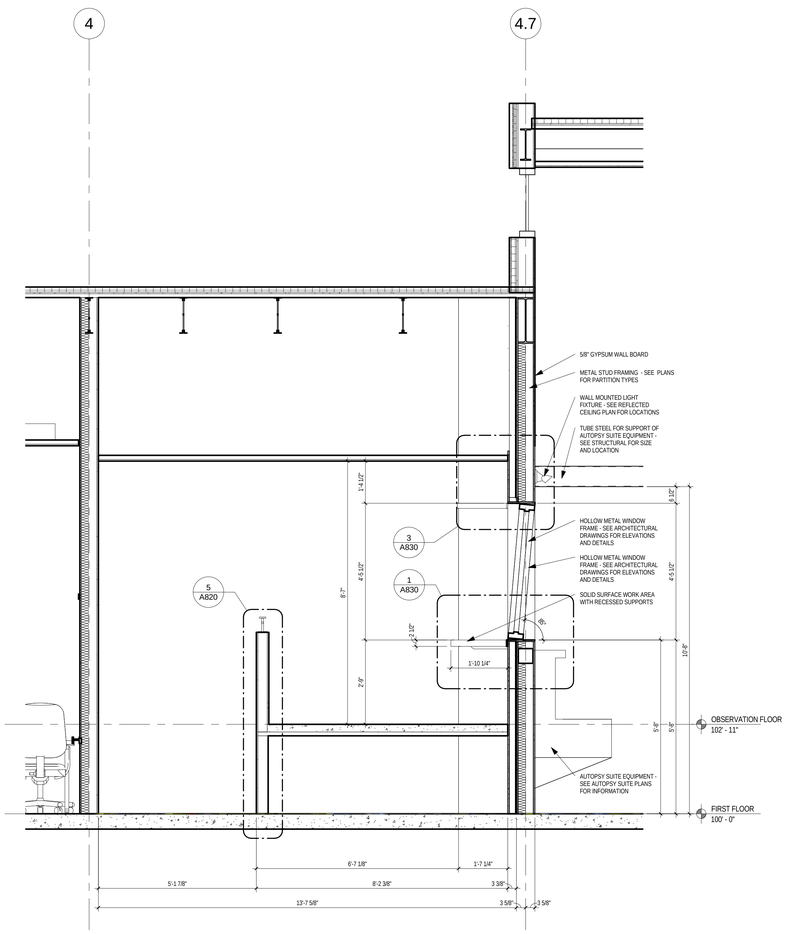
5 SMALL CONFERENCE ROOM SECTION
1/2" = 1'-0"



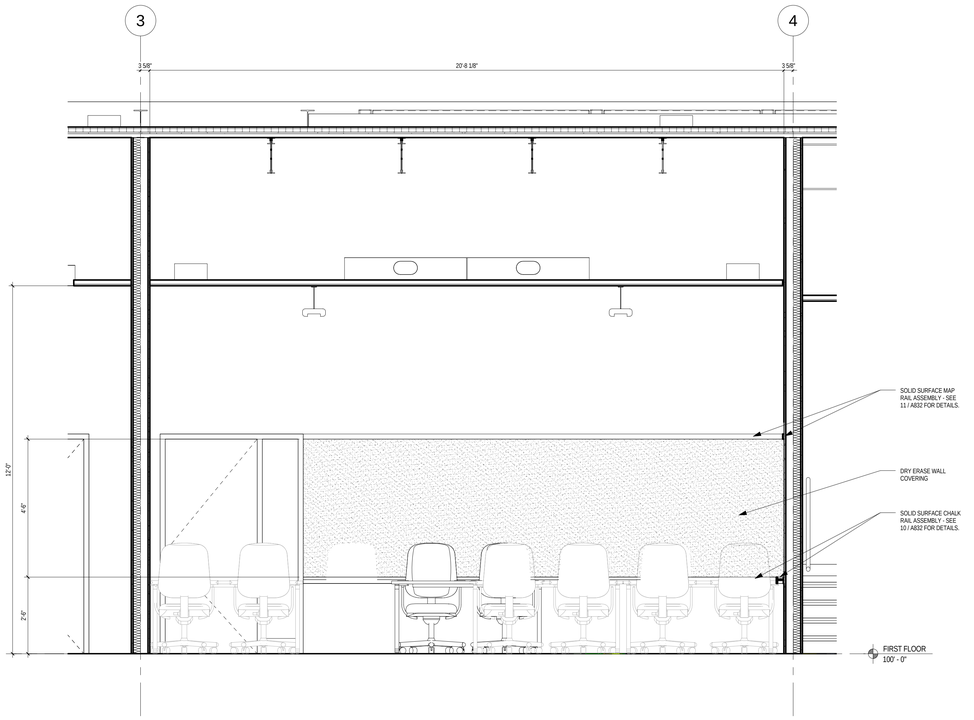
4 SMALL CONFERENCE ROOM SECTION
1/2" = 1'-0"



2 SECTION AT BODY HOIST
1/2" = 1'-0"



3 AUTOPSY VIEWING SECTION
1/2" = 1'-0"



1 LARGE CONFERENCE ROOM SECTION
1/2" = 1'-0"

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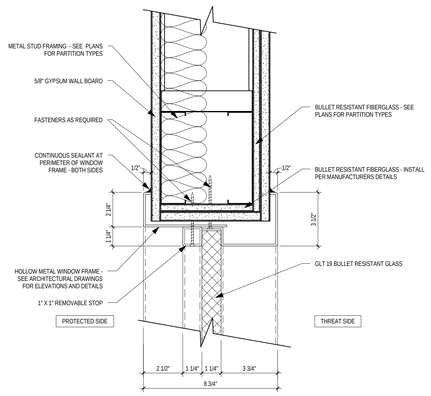
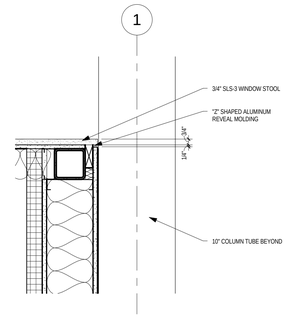


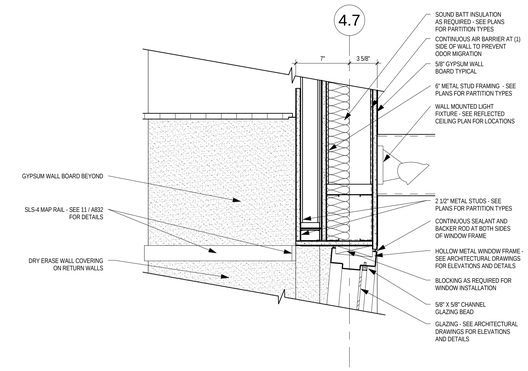
8 TRANSACTION WINDOW

3" = 1'-0"



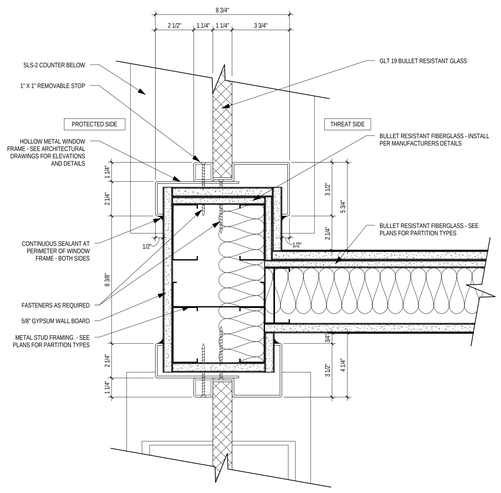
9 WINDOW STOOL

1 1/2" = 1'-0"



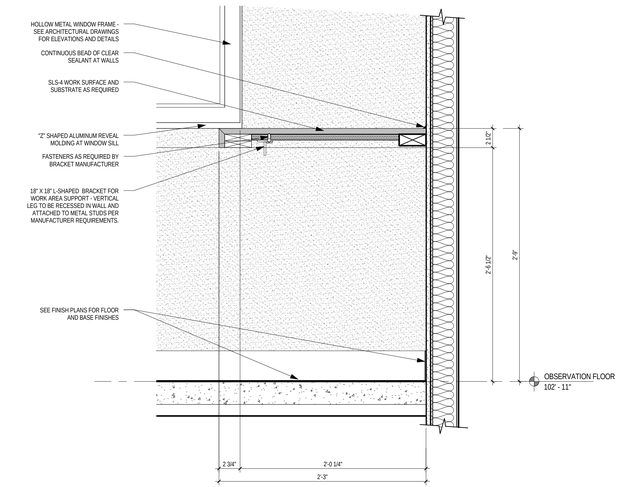
3 WINDOW HEAD

1 1/2" = 1'-0"



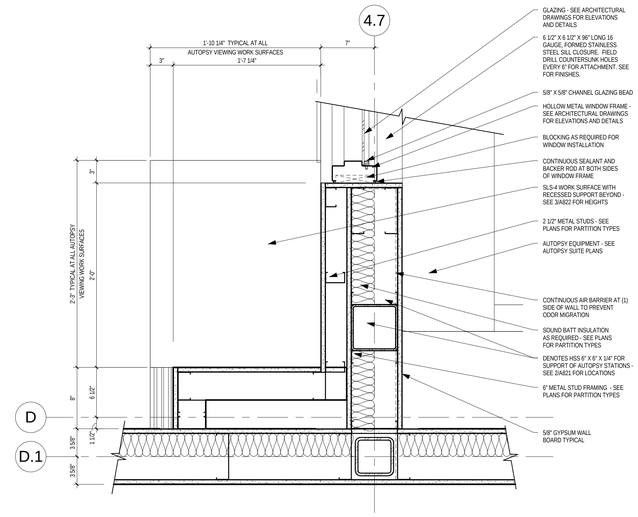
7 TRANSACTION WINDOW

3" = 1'-0"



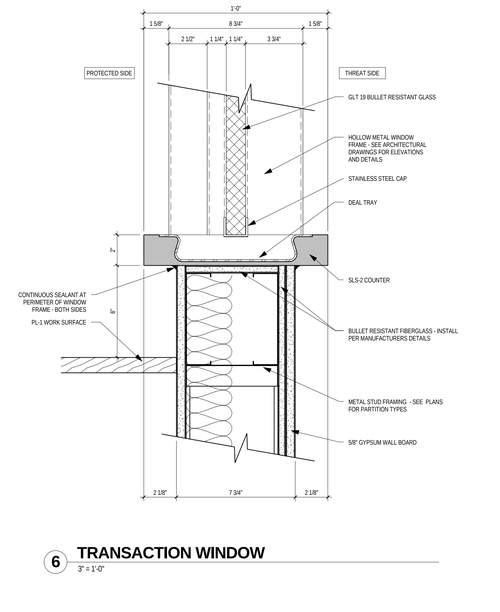
5 WORKSURFACE SECTION

1 1/2" = 1'-0"



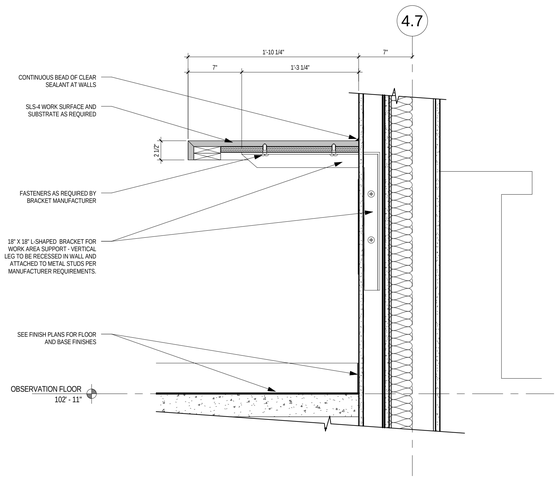
2 WINDOW JAMB

1 1/2" = 1'-0"



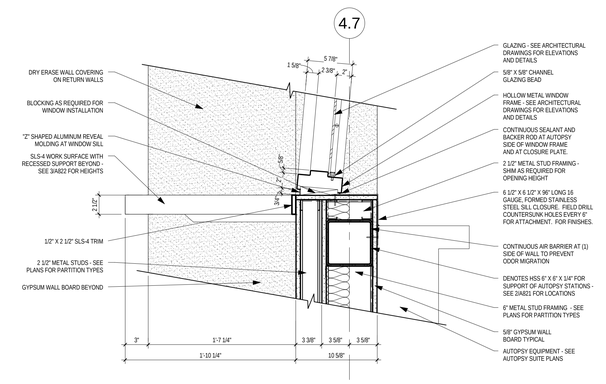
6 TRANSACTION WINDOW

3" = 1'-0"



4 WORKSURFACE SECTION

1 1/2" = 1'-0"



1 WINDOW SILL

1 1/2" = 1'-0"

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ISSUE

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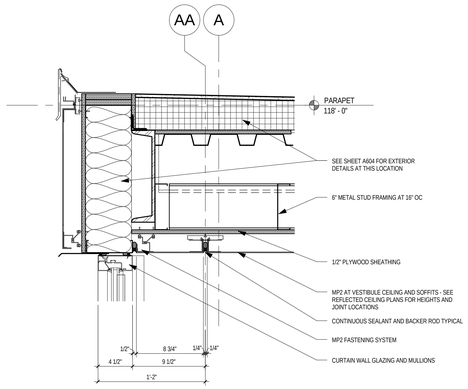
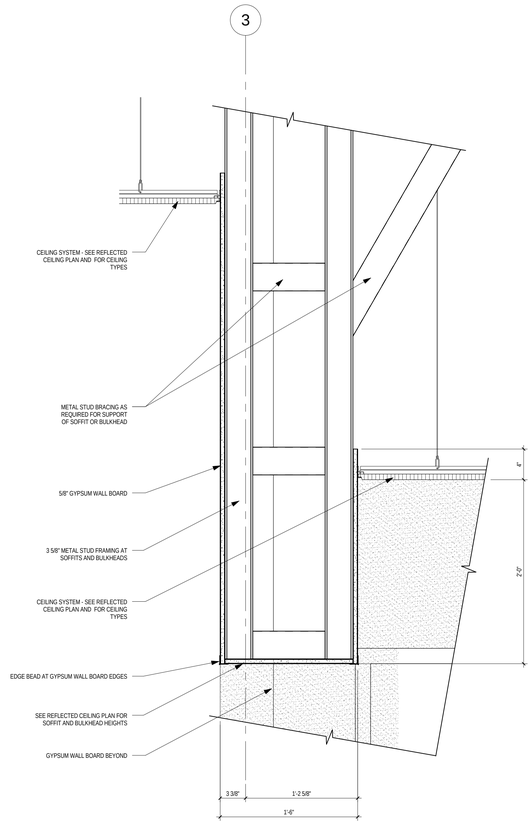
DATE
01.12.15

A830



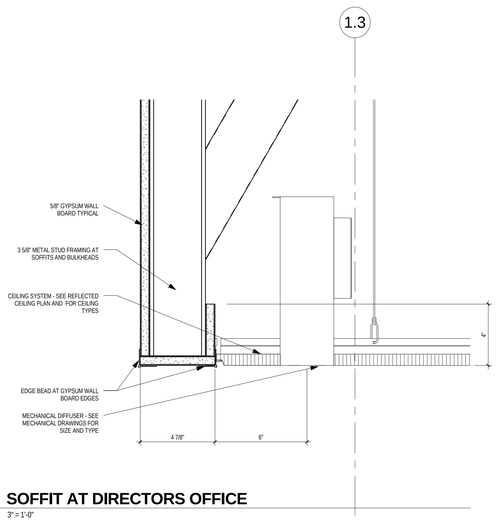
6 METAL PANEL CEILING AT VESTIBULE

1 1/2" = 1'-0"



3 BREAKROOM SOFFIT DETAIL

1 1/2" = 1'-0"

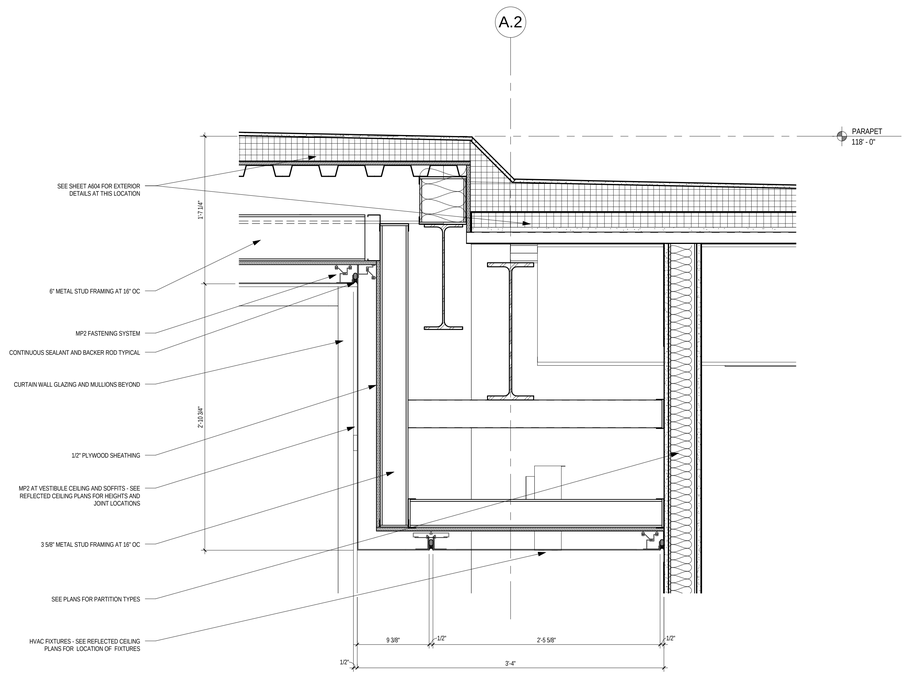


5 SOFFIT AT DIRECTORS OFFICE

3" = 1'-0"

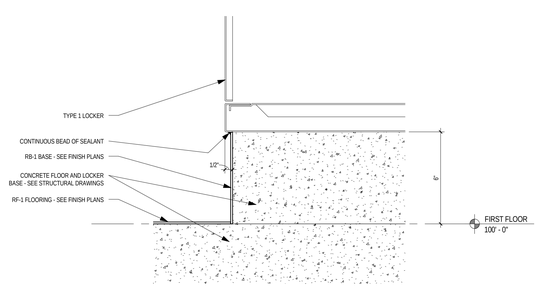
2 LOCKER SOFFIT TRIM

3" = 1'-0"



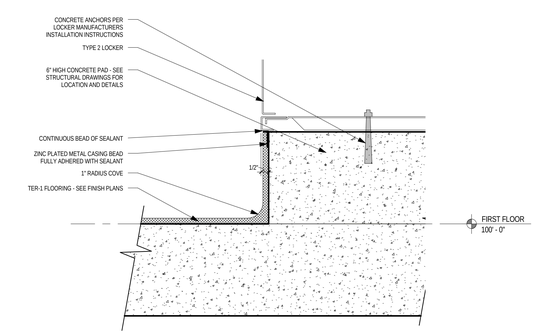
7 METAL PANEL CEILING AT VESTIBULE

1 1/2" = 1'-0"



4 LOCKER BASE - MLI LOCKERS

3" = 1'-0"



1 LOCKER BASE AT TERRAZZO

3" = 1'-0"

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DATE
01.12.15

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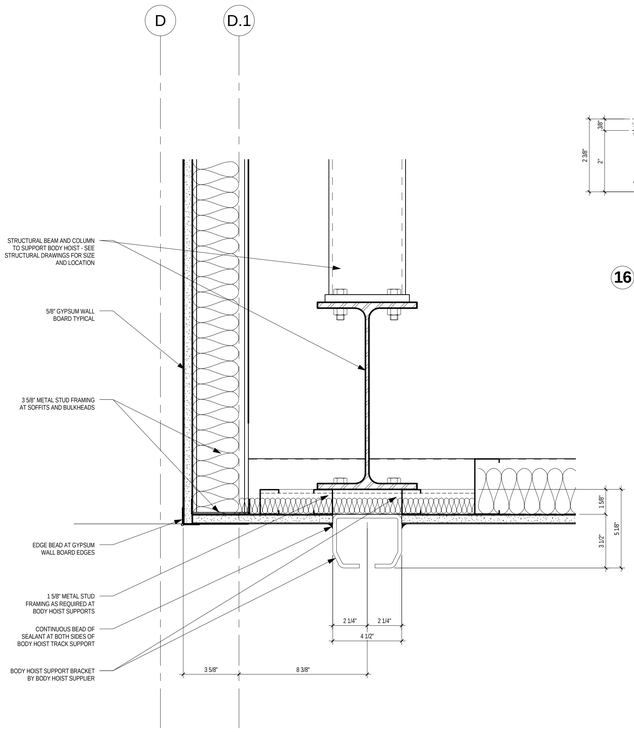
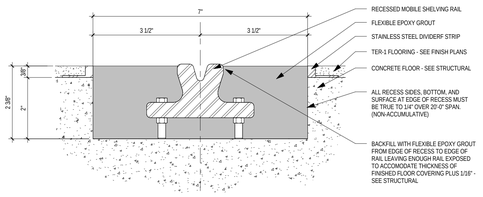
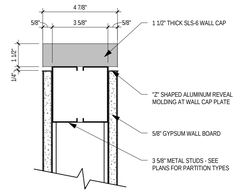


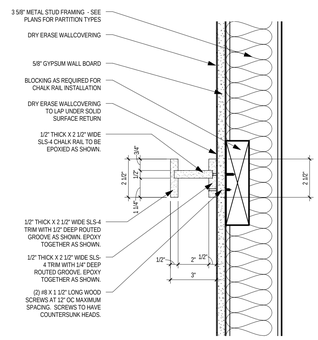
15 BODY HOIST SUPPORT BEAM
3" = 1'-0"



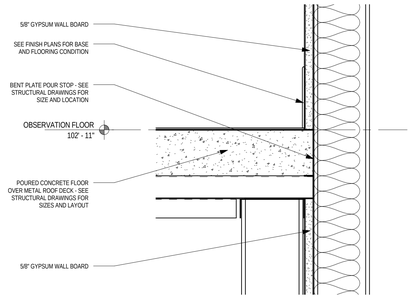
16 RECESSED SHELVING RAIL
6" = 1'-0"



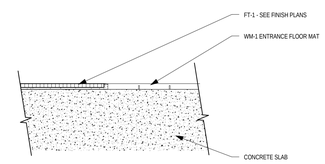
13 WALL CAP DETAIL
3" = 1'-0"



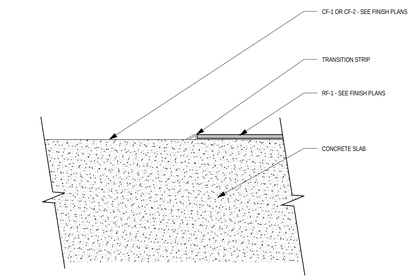
10 CHALK RAIL DETAIL
3" = 1'-0"



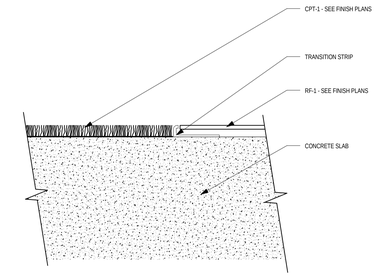
9 FLOOR TO WALL DETAIL
3" = 1'-0"



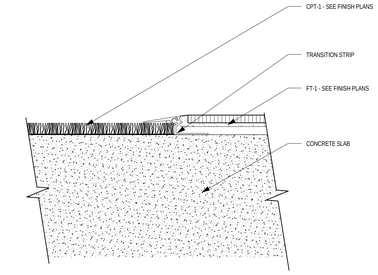
8 ENTRANCE MAT DETAIL
3" = 1'-0"



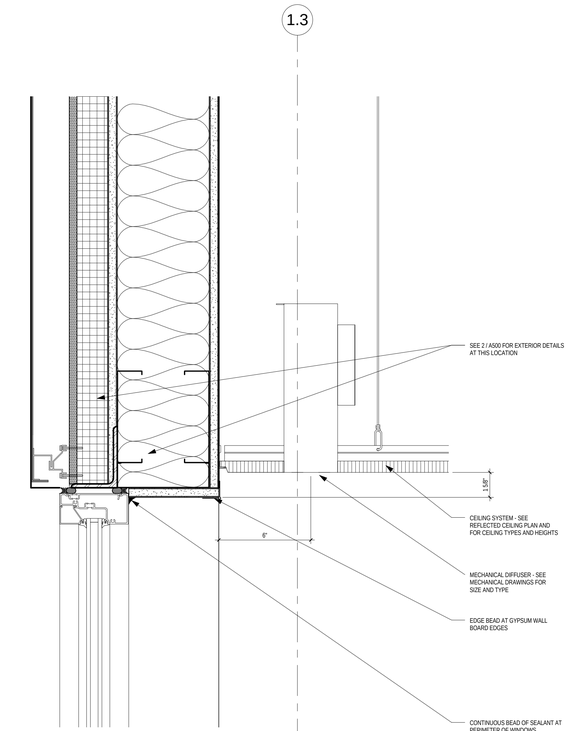
5 CF-1 OR TO CF-2 TO RF-1 TRANSISITON STRIP
6" = 1'-0"



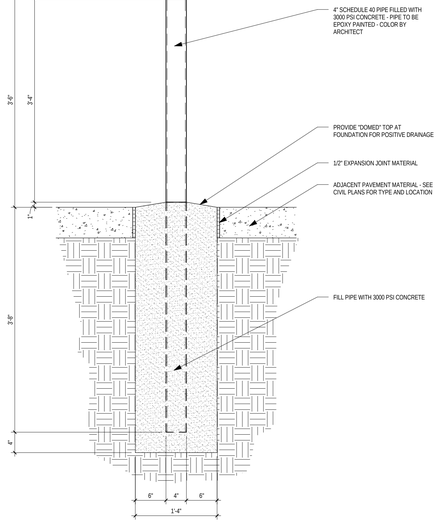
4 CPT-1 TO RF-1 TRANSITION STRIP
6" = 1'-0"



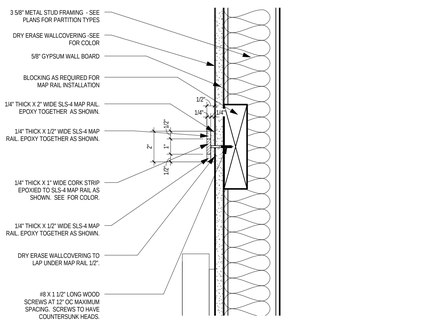
3 CPT-1 TO FT-1 TRANSITION STRIP
6" = 1'-0"



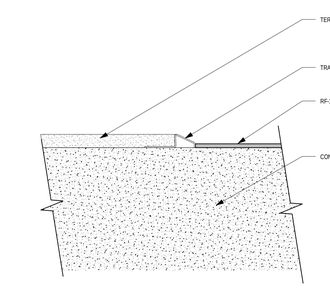
14 CEILING AT MLI OFFICES
3" = 1'-0"



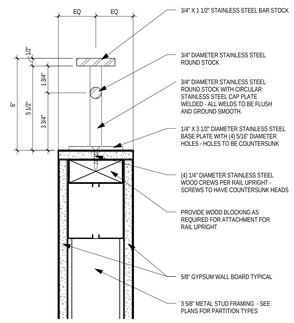
12 PIPE BOLLARD DETAIL
1" = 1'-0"



11 MAP RAIL DETAIL
3" = 1'-0"



6 TER-1 TO RF-1 TRANSITION STRIP
6" = 1'-0"



1 GUARDRAIL DETAIL
3" = 1'-0"

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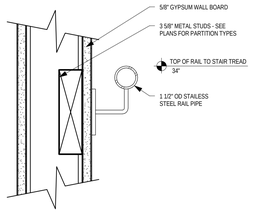
PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

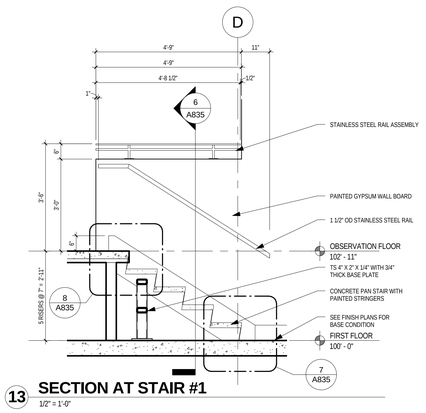
BID NO.
313083

DRAWING
INTERIOR DETAILS

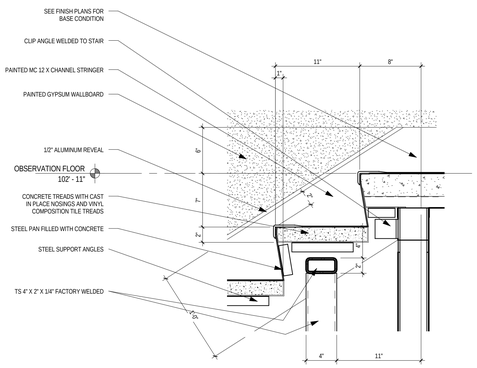
DATE
01.12.15



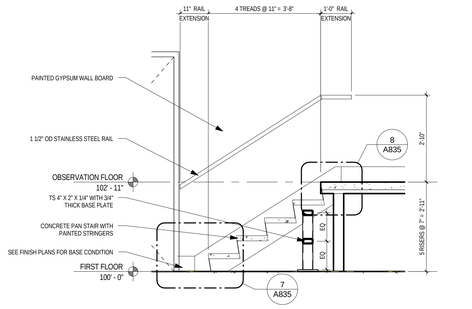
14 STAIR RAIL AT WALL
3" = 1'-0"



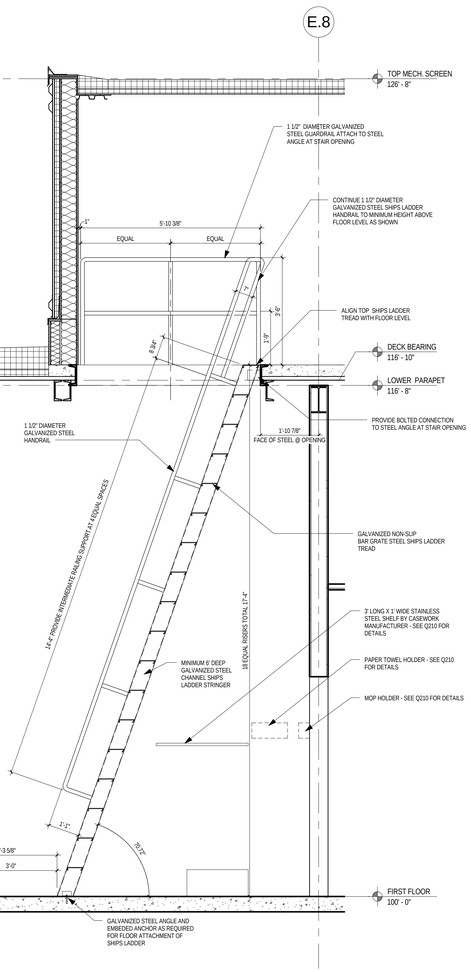
13 SECTION AT STAIR #1
1/2" = 1'-0"



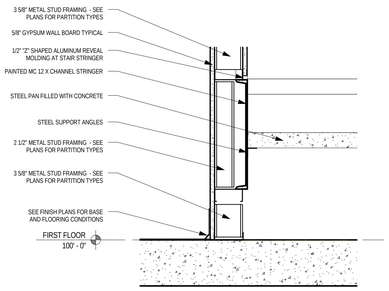
8 TOP OF TREAD DETAIL
1 1/2" = 1'-0"



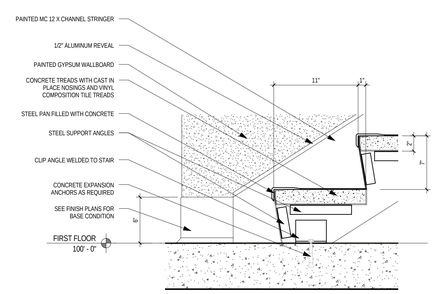
4 SECTION AT STAIR #2
1/2" = 1'-0"



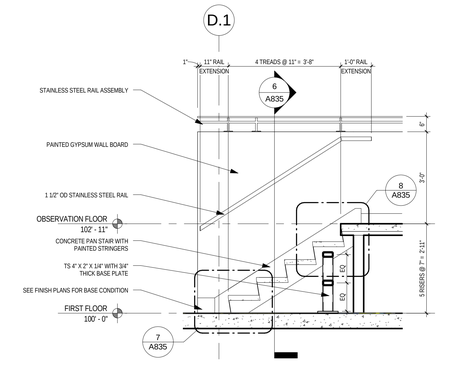
12 ME SHIPS LADDER SECTION
1/2" = 1'-0"



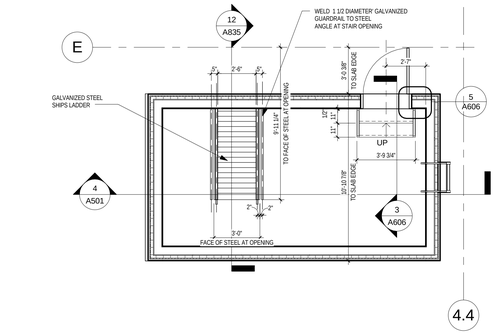
11 STAIR STRINGER DETAIL
1 1/2" = 1'-0"



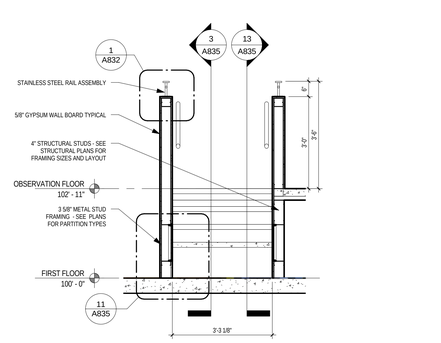
7 BOTTOM TREAD DETAIL
1 1/2" = 1'-0"



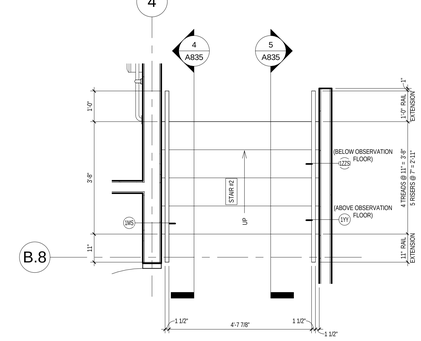
3 SECTION AT STAIR #1
1/2" = 1'-0"



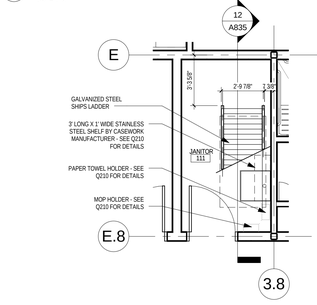
10 SLAB EDGE LOCATIONS ROOF ACCESS ROOM
1/4" = 1'-0"



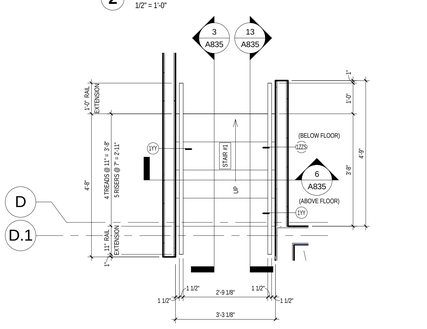
6 STAIR SECTION
1/2" = 1'-0"



2 STAIR #2 PLAN
1/2" = 1'-0"



9 ME SHIPS LADDER PLAN
1/4" = 1'-0"



5 SECTION AT STAIR #2
1/2" = 1'-0"

1 STAIR #1 PLAN
1/2" = 1'-0"

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1. SEAL ALL DUCT AND STRUCTURAL PENETRATIONS INTO THE AUTOPSY SUITE FOR ODOR AND PRESSURIZATION.
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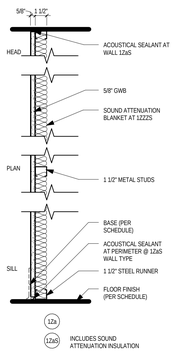

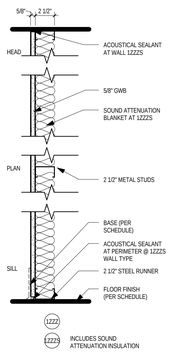

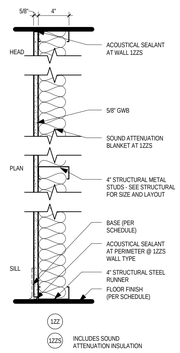

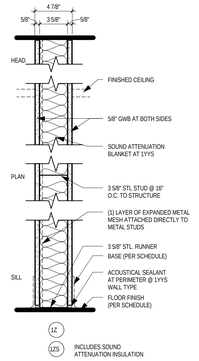

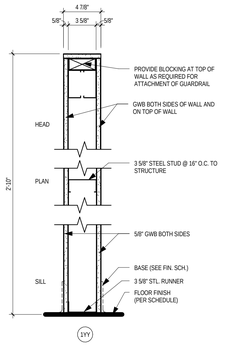

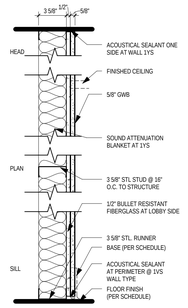

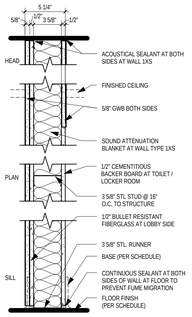

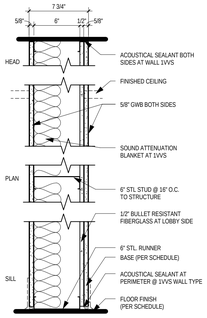

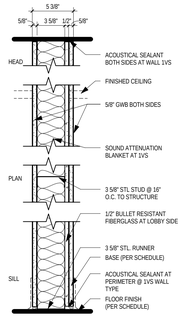

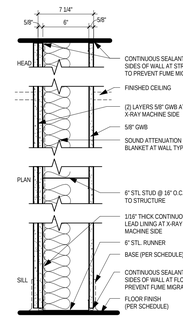

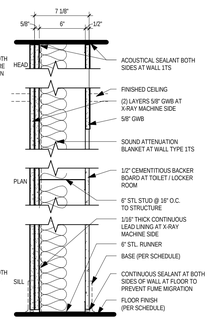

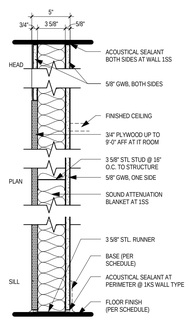

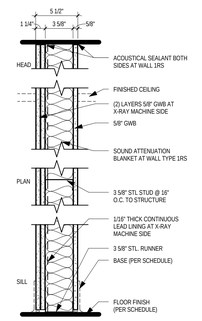

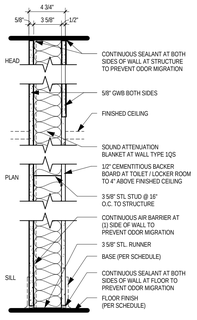

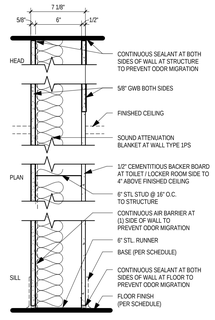

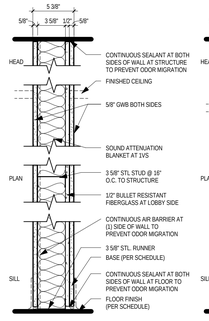

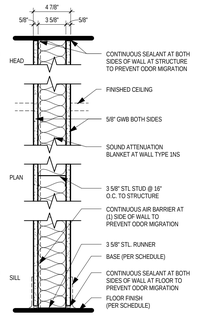

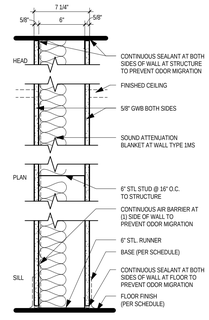

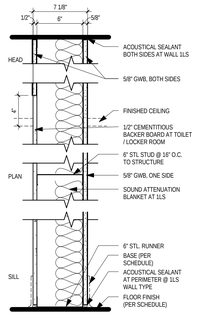

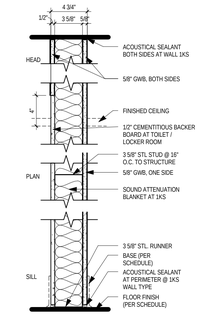

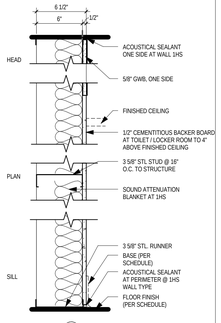

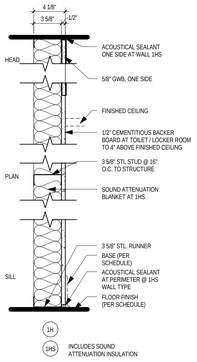

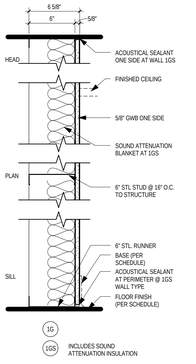

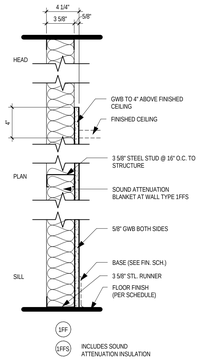

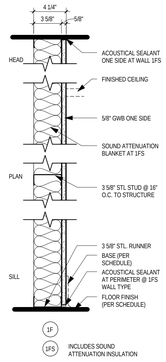

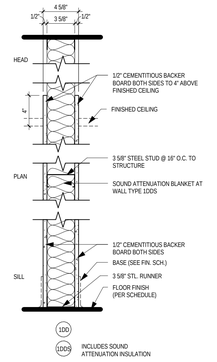

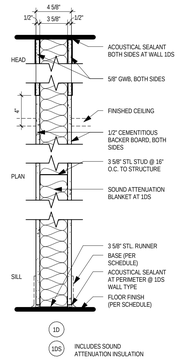

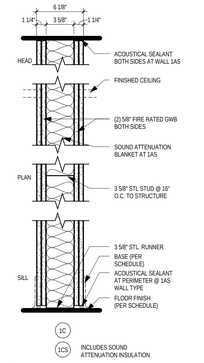

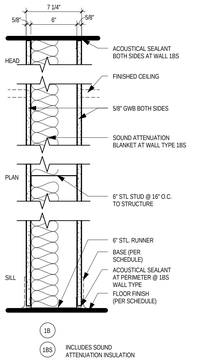

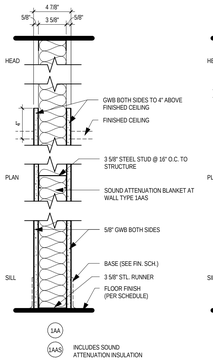

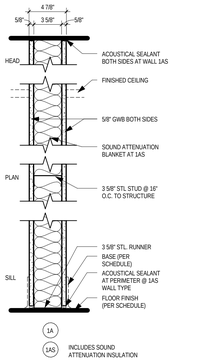

1 WALL PARTITION TYPES

1 1/2" = 1'-0"

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MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
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PARTITON TYPE GENERAL NOTES

1. SEAL ALL DUCT AND STRUCTURAL PENETRATIONS INTO THE AUTOPSY SUITE FOR ODOR AND PRESSURIZATION.
2. SEE FINISH PLANS FOR ROOM FINISH INFORMATION
3. DIMENSIONS ARE TO FACE OF PAINTED SURFACE U.N.O.

1 WALL PARTITION TYPES

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FINISH PLAN GENERAL NOTES

1. FINISH PLANS REPRESENT FLOOR FINISH, TRANSITIONS, AND ACCENT PAINT.
2. REFER TO FLOOR PLANS FOR INTERIOR ELEVATION REFERENCE TAGS.
3. REFER TO INTERIOR ELEVATIONS FOR MULTIPLE WALL FINISH LOCATIONS.
4. REFER TO REFLECTED CEILING PLANS FOR CEILING MATERIALS AND LOCATIONS.
5. PAINT ALL DOOR & WINDOW FRAMES TO MATCH ADJACENT WALL COLOR.
6. FLOORING SHALL NOT EXTEND UNDER BUILT-IN CASEWORK BASES.
7. ALL FLOORING TRANSITIONS SHALL BE CENTERED UNDER DOOR IN CLOSED POSITION UNLESS NOTED OTHERWISE.
8. SEE SHEETS Q000 THRU Q821 FOR EXTENT AND DETAILS OF WALL PROTECTION SYSTEM

FLOOR FINISH KEY

- CF-1
- CF-2
- CPT-1
- FT-1
- RF-1
- TER-1

1 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"

2 ENLARGED FINISH PLAN
1/4" = 1'-0"

3 ENLARGED FINISH PLAN
1/4" = 1'-0"

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DRAWING
FIRST FLOOR FINISH PLAN

DATE
01.12.15

A900

1 **FIRST FLOOR FURNITURE PLAN**
1/8" = 1'-0"

NORTH

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DRAWING
ILLUSTRATIVE FURNITURE PLAN

DATE
01.12.15

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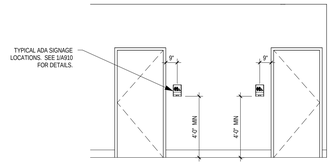

2 **ADA SIGNAGE HEIGHTS**
1/4" = 1'-0"

1 RESTROOM IDENTIFICATION: AT WOMEN'S TOILET
2 RESTROOM IDENTIFICATION: AT MEN'S TOILET
3 RESTROOM IDENTIFICATION: AT UNISEX TOILET
4 RESTROOM IDENTIFICATION: AT WOMEN'S SHOWER / TOILET
5 RESTROOM IDENTIFICATION: AT MEN'S SHOWER / TOILET

1 **ADA SIGNAGE**
6" = 1'-0"

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SIGNAGE

DATE
01.12.15

A910

LABORATORY EQUIPMENT & LABORATORY FIXTURES

EQUIP.#	EQUIPMENT ITEM	SPEC. SECTION	OWNER PROVIDED	CONTRACTOR PROVIDED	MOUNTING	NOTES
DC1	DRYING CABINET (FUTURE)	OFOI	x		FLOOR	
EW	DRENCH HOSE EYE WASH	123450		x	COUNTER	
ESEW1	PULL DOWN EMERGENCY SHOWER/EYEWASH	123450		x	WALL	
OHCR-1	RECESSED OVERHEAD CORD REEL	DIV. 26		x	CEILING	
OHCR-2	SURFACE MOUNTED CORD REEL	DIV. 26		x	CEILING	

AUTOPSY/MORGUE UNIT EQUIPMENT SCHEDULE

EQUIP. #	EQUIPMENT ITEM	SPEC. SECTION	OWNER PROVIDED	CONTRACTOR PROVIDED	MOUNTING	NOTES
ME1	BACKDRAFT AUTOPSY STATION	117810		x	WALL	
ME1A	BODY CARRIER	117810		x	FLOOR	
ME1B	STAINLESS STEEL BODY TRAY	117810		x	CARRIER	
ME1C	BARIATRIC BODY CARRIER WITH ATTACHED SS TRAY	117810		x	FLOOR	
ME1D	C-ARM BODY CARRIER	117810		x	FLOOR	
ME1E	PLASTIC BODY TRAY	117810		x	CARRIER	
ME2	RECESSED BODY SCALES W/ DIG. READOUT	117810		x	FLOOR/WALL	
ME3	5 TIER BODY RACKING SYSTEM	138080		x	FLOOR	
ME4	BODY HOIST	117810		x	CEILING	
ME5	PORTABLE DIGITAL X-RAY	OFOI	x		FLOOR	
ME6	SURGICAL LIGHT	117810		x	CEILING	
ME6A	SURGICAL LIGHT CONTROL PANEL	117810		x	WALL	
ME6B	SURGICAL LIGHT POWER SUPPLY	117810		x	WALL SHELF	
ME7	NOT USED					
ME8	NOT USED					
ME9	MAIN BODY COOLER	138080		x	FLOOR	
ME10	NOT USED					
ME11	BODY FREEZER	138080		x	FLOOR	
ME12	PORTABLE BODY LIFT	117810		x	FLOOR	
ME13	FULL BODY X-RAY	OFOI	x		FLOOR	
ME14	COPY STAND W/CART	OFOI	x		FLOOR	
H1	GROSSING STATION	117810		x	FLOOR	

LAB COUNTER SCHEDULE

COUNTER TYPE	LOCATION	NOTES
STAINLESS STEEL	ALL COUNTERS SHOWN ON SHEET Q210 AND Q211 ARE TO BE STAINLESS STEEL WITH A MARINE EDGE UNLESS OTHERWISE NOTED.	NON-MARINE EDGE LOCATIONS NOTED ON DRAWING.

LAB MOBILE TABLE SCHEDULE "MTx-y"

MARK	SIZE	CABINETS	TOP	NOTES
MT3030-SS	30" W x 30" L	SEE PLANS	ST.STL.	1,2
MT3048-SS	30" W x 48" L	SEE PLANS	ST.STL.	1,2
MT3060-SS	30" W x 60" L	SEE PLANS	ST.STL.	1,2
MT4260-SS	42" W x 60" L	SEE PLANS	ST.STL.	1,2

NOTES:
1. COUNTER SHALL BE 1-PIECE STAINLESS STEEL
2. SET INITIAL HEIGHT OF TABLE @ 36" A.F.F. U.N.O.

LAB SINK SCHEDULE "LS-x"

MARK	TYPE	MATERIAL	SIZE wx fBxd (+/- 1")	SERVICES					NOTES
				WATER TYPE		FOOT PEDAL	IR	PAPER TOWEL DISPENSER	
				HOT WATER & COLD WATER	PURIFIED				
LS-1	SINGLE BOWL	STAINLESS STEEL	24 x 16 x 5	X			X	X	1,2,3,4
LS-2	SINGLE BOWL	STAINLESS STEEL	24 x 16 x 11	X			X	X	2,3,4

NOTES:
1. ADA COMPLIANT SINK
2. INTEGRATED SINK BOWL IN COUNTER OF LIKE MATERIAL
3. REFER TO TYP. SINK PLAN 1/Q820

FUME HOOD SCHEDULE "FH x-y"

MARK	LINER	SIZE	SASH TYPE/ OPENING	LOCKING (HASP)	PLUMBING SERVICES (ONE SIDE)	ELECTRICAL SERVICES, (BOTH SIDES)	NOTES
FH6-ADA-SS	STAINLESS STEEL	72" W X 31.25" D	COMBINATION	YES	SEE LAB PLANS-- CUP SINK	(1)DUPLEX POWER, GFI (1)208V	ADA COMPLIANT FUME HOOD WITH CUP SINK, STAINLESS STEEL STAND MOUNTED ON FLOOR. PERFORATED STAINLESS STEEL PAPER SCREEN. ALL STAINLESS STEEL CONSTRUCTION

LABORATORY CASEWORK LEGEND

AFF	ABOVE FINISHED FLOOR
Bx-y	FIXED CANTILEVER MOUNTED SS BASE CABINET (x DENOTES CABINET WIDTH, y DENOTES CABINET TYPE)
CART	LABORATORY CART (NIC)
CS	CUP SINK
CT	COUNTERTOP
CW	COLD WATER
DBx-Y	FIXED CANTILEVER MOUNTED SS DRAWER BASE CABINET (x DENOTES CABINET WIDTH & y DENOTES CABINET TYPE)
ESEW1	RECESSED, SWING DOWN COMBINATION EMERGENCY EYEWASH & SHOWER UNIT - ADA COMPLIANT
EW	DRENCH HOSE EYEWASH FIXTURE - DECK MOUNTED
FD	FLOOR DRAIN
FFD	FLUSHING FLOOR DRAIN
FHx-y	FUME HOOD (x DENOTES HOOD WIDTH, y DENOTES TYPE -REFER TO FUME HOOD SCHEDULE ON THIS SHEET)
HCW	HOT & COLD WATER
HW	HOT WATER
HD	HUB DRAIN
KSDx	KNEE SPACE W/ DRAWER AND STANDARD APRON, (x DENOTES WIDTH)
KSSA	KNEE SPACE SUPPORT BRACKET
Ⓛ	LOCKING CABINET
LSx	LAB SINK (x DENOTES SINK TYPE. REFER TO LAB SINK SCHEDULE ON THIS SHEET)
Ⓜ	MONITOR TO BUILDING MANAGEMENT SYSTEM
MB/TB	MARKER BOARD / TACK BOARD W/ SS FRAME
MTxxyy	MOBILE TABLE (xx INDICATES WIDTH & yy INDICATES LENGTH) (REFER TO DETAIL SHEET L-201 & LAB MOBILE TABLE SCHEDULE ON THIS SHEET.)
MTCxy	MOBILE TABLE CABINET (x DENOTES WIDTH AND y DENOTES TYPE)
OHCR-1	RECESSED OVERHEAD CORD REEL
OHCR-2	SURFACE MOUNTED OVERHEAD CORD REEL
PL-1	PROPERTY LOCKERS
PRDx	PAPER ROLL DISPENSER (x DENOTES WIDTH)
PTD	PAPER TOWEL DISPENSER (SURFACE MOUNTED)
SBx	CANTILEVERED SINK BASE CABINETRY (x DENOTES CABINET WIDTH)
SBx-ADA	CANTILEVERED SINK BASE CABINETRY (x DENOTES CABINET WIDTH) ADA
SHx	SS SHELVING(x DENOTES CABINET WIDTH)-REFER TO SPEC 11600
ST.STL or SS	STAINLESS STEEL
TACD-x	TALL STAND ALONE ACID STORAGE CABINET (x DENOTES CABINET WIDTH
TCSC-X	TALL STAND ALONE CHEMICAL STORAGE CABINET(x DENOTES CABINET WIDTH)
TCx-ySS	TALL CABINET (x DENOTES CABINET WIDTH; y DENOTES CABINET TYPE) -ALL STAINLESS STEEL CONSTRUCTION
TYPE I	TYPE I PURIFIED WATER LOCATION (WATER POLISHER BY DIV. 22), 18 MEGAOHM
UNO	UNLESS NOTED OTHERWISE
WCx-Y	WALL CABINET (x DENOTES CABINET WIDTH, y DENOTES CABINET TYPE) ALL STAINLESS STEEL CONSTRUCTION

LABORATORY CASEWORK GENERAL NOTES

1) CABINETS & COUNTERS
   A. ALL SINKS SHALL BE CENTERED IN THEIR CABINETS UNLESS OTHERWISE SHOWN ON DRAWINGS
   B. PROVIDE REMOVABLE BACK ACCESS PANELS AT ALL CABINETS AND KNEE SPACES TO PROVIDE ACCESSIBILITY TO UTILITY CHASES BEHIND CABINETS.
   C. CASEWORK MANUFACTURER AND INSTALLER SHALL PREPARE ALL LAB CASEWORK FOR SPECIAL APPLICATIONS, SUCH AS PRE DRILLING FOR INSTALLATION OF HANDS FREE DEVICES, CUTS IN BACKSPLASH AND COUNTERS FOR EXHAUST GRILLES, TUBING FROM DUCT PENETRATIONS, TASK/EXHAUST UNITS, PURIFIED WATER COMPONENTS, WIRING, ETC.
   D. ALL LABORATORY COUNTERTOPS AND BACKSPLASHES SHALL BE STAINLESS STEEL. ALL BACKSPLASHES SHALL MATCH COUNTERTOPS IN MATERIAL AND COLOR. BACK SPLASHES SHALL EXTEND UP TO THE UNDERSIDE OF THE COMPARTMENT RACEWAY.
   E. ALL COUNTERTOP HEIGHTS SHALL BE 36" AFF UNLESS OTHERWISE NOTED.
   F. NOT USED.
   G. PROVIDE REMOVABLE CLOSURE PANELS AT ENDS OF UTILITY CHASES AT KNEE SPACES, PENINSULAS, ISLANDS, ETC. EXCEPT WHERE NOTED OTHERWISE.
   H. ALL COUNTERTOPS AT FIXED CASEWORK ARE 30" DEEP UNLESS NOTED OTHERWISE.
   I. PROVIDE HANGING FILE HARDWARE AT ALL FILE CABINETS.
   J. PROVIDE LOCK HARDWARE AT ALL DRAWERS AND DOORS WHERE INDICATED.
   K. PROVIDE SEISMIC LIPS ON ALL OPEN SHELVING, REAGENT LEDGES, BOOKSHELVES, ETC.
   L. CABINET DOOR WIDTHS: SINGLE WIDTH DOORS LESS THEN 48" IN HEIGHT, SHALL NOT EXCEED 24". ALL 24" WIDTH DOORS SHALL BE 1" THICK CONSTRUCTION.

2) COORDINATION
   A. ALL DIMENSIONS ARE NOMINAL. SPECIFIC DIMENSIONS MAY VARY AMONG DIFFERENT CASEWORK MANUFACTURERS.
   B. ALL DIMENSIONS ARE TYPICAL UNLESS OTHERWISE NOTED ON DRAWINGS.
   C. VERIFY ALL DIMENSIONS IN FIELD BEFORE CASEWORK SHOP DRAWING PROCESS BEGINS.

3) FLOOR TO CABINET TRANSITIONS
   A. ALL BASE CABINETS AND SINK BASE CABINETS TO BE FLOOR MOUNTED ON CONCRETE PADS.
   B. ALL WALL CABINETS TO BE WALL MOUNTED.
   C. ALL STORAGE CABINETS AND MOBILE TABLES TO BE FLOOR MOUNTED.

4) CABINET TO WALL TRANSITIONS
   A. PROVIDE CONTINUOUS WOOD BLOCKING AT ALL WALL LOCATIONS WHERE THERE IS LAB CASEWORK AND ANY AND ALL WALL MOUNTED ACCESSORIES, INCLUDING WALL MOUNTED EQUIPMENT BY OTHERS.
   B. PROVIDE SURFACE MOUNTED PAPER TOWEL DISPENSERS AT ALL LAB SINKS. LOCATE ALL EPOXY DRYING RACKS TO AVOID CONFLICT WITH DECK MOUNTED EYE WASH UNITS.

5) FUME HOODS
   A. WHOLE FUME HOOD SHALL BE STAINLESS STEEL STAND MOUNTED ON FLOOR.
   B. SEISMIC ANCHORAGE OF FUME HOODS PER PREVAILING CODES. ADA FUME HOOD SHALL BE ADA COMPLIANT IN APRON DEPTH, MOUNTING HEIGHT. FUME HOOD SHALL HAVE A PERFORATED SCREEN AT THE BACK BAFFLE AREA.
   C. REFER TO THE FUME HOOD SPECIFICATION IN SECTION 123450.

6) SIGNAGE
   A. PROVIDE AND INSTALL ALL NECESSARY AND REQUIRED SIGNAGE TO IDENTIFY AND LOCATE EMERGENCY EYEWASH AND SHOWER UNITS AS REQUIRED BY THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
   B. CHEMICAL STORAGE CABINTES AND ACID STORAGE CABINETS: PROVIDE LABEL IN ACCORDANCE WITH SPECIFICATIONS "FLAMMABLE KEEP AWAY" AND "ACID STORAGE".

7) CABINET LOCKS
   A. ALL CABINET LOCKS INDICATED Ⓛ

8) SINK SERVICES: REFER TO LAB SINK SCHEDULE ON THIS SHEET FOR ALL SINK TYPES & THEIR SERVICES. REFER TO LAB PLANS FOR LOCATIONS OF SINK TYPES.

9) FUME HOOD SERVICES: REFER TO FUME HOOD SCHEDULE ON THIS SHEET FOR FUME HOOD TYPE SERVICES. REFER TO LAB PLANS FOR LOCATIONS OF FUME HOOD TYPES.

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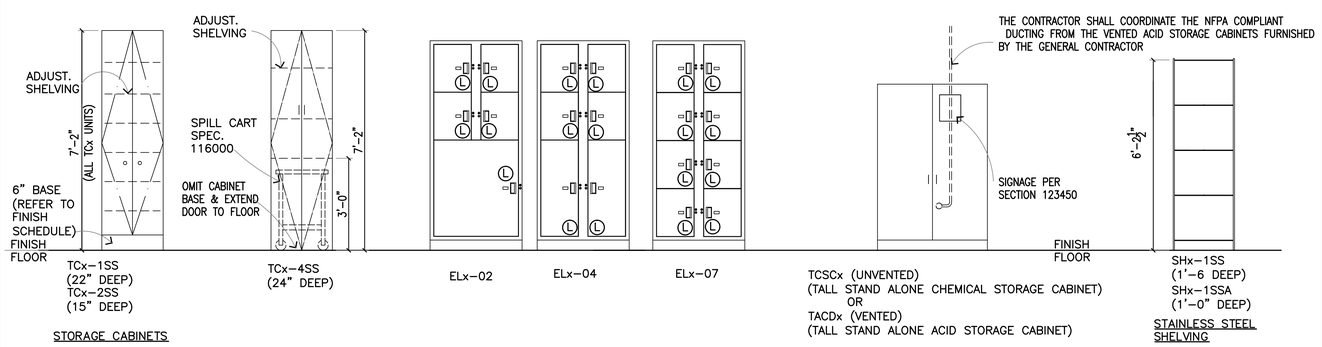
PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 County Highway AB
MCFARLAND, WI 53558

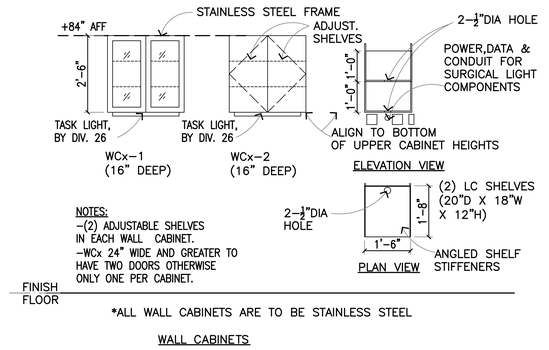
BID NO.
313083

DRAWING
AUTOPSY SUITE ABBREVIATIONS

DATE
01.12.15

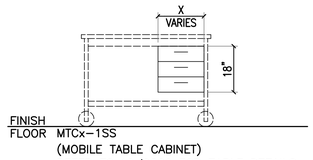


STORAGE CABINETS



*ALL WALL CABINETS ARE TO BE STAINLESS STEEL

WALL CABINETS

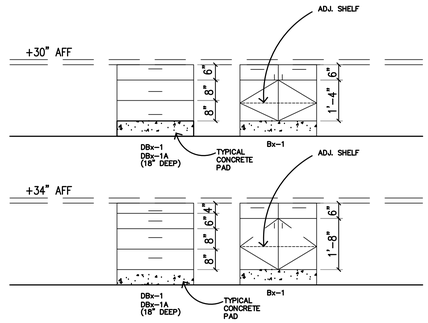


MOBILE TABLE CABINET

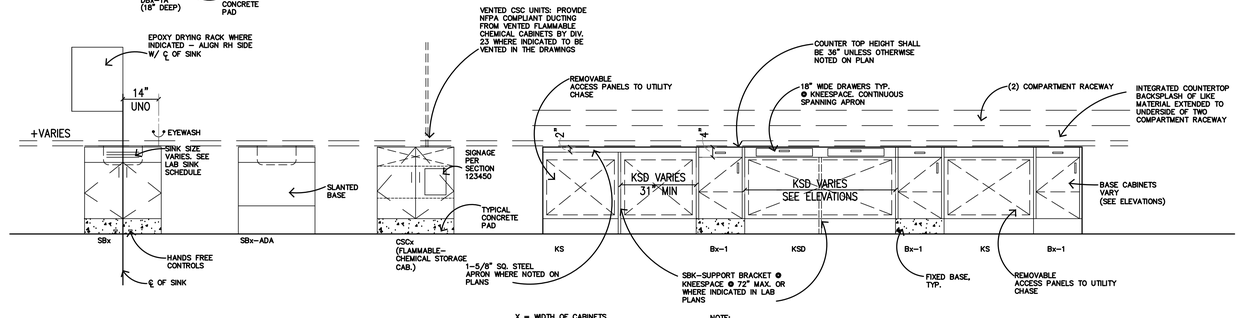
*ALL MOBILE TABLE CABINETS ARE TO BE STAINLESS STEEL

NOTES:

1. NOT ALL CASEWORK TYPES DEPICTED ON THIS SHEET MAY BE USED ON THIS PROJECT.
2. REFER TO LAB PLAN SHEETS FOR CASEWORK TYPE LOCATIONS.
3. ALL CASEWORK TO BE STAINLESS STEEL CONSTRUCTION WITH NO TOE KICK MOUNTED ON CONCRETE FLOOR PAD EXCEPT WHERE NOTED ON PLAN.



KNEESPACE DRAWER SCHEDULE:	
KNEESPACE WIDTH	NO. OF DRAWERS
30"-49"	1
50"-72"	2



BASE CABINETS

X = WIDTH OF CABINETS (INCHES)

NOTE:
AT 30" HIGH KNEE SPACE REDUSE RAIL SUPPORT HEIGHT TO 2" TO ALLOW FOR ADEQUATE KNEE SPACE UNDER RAIL.

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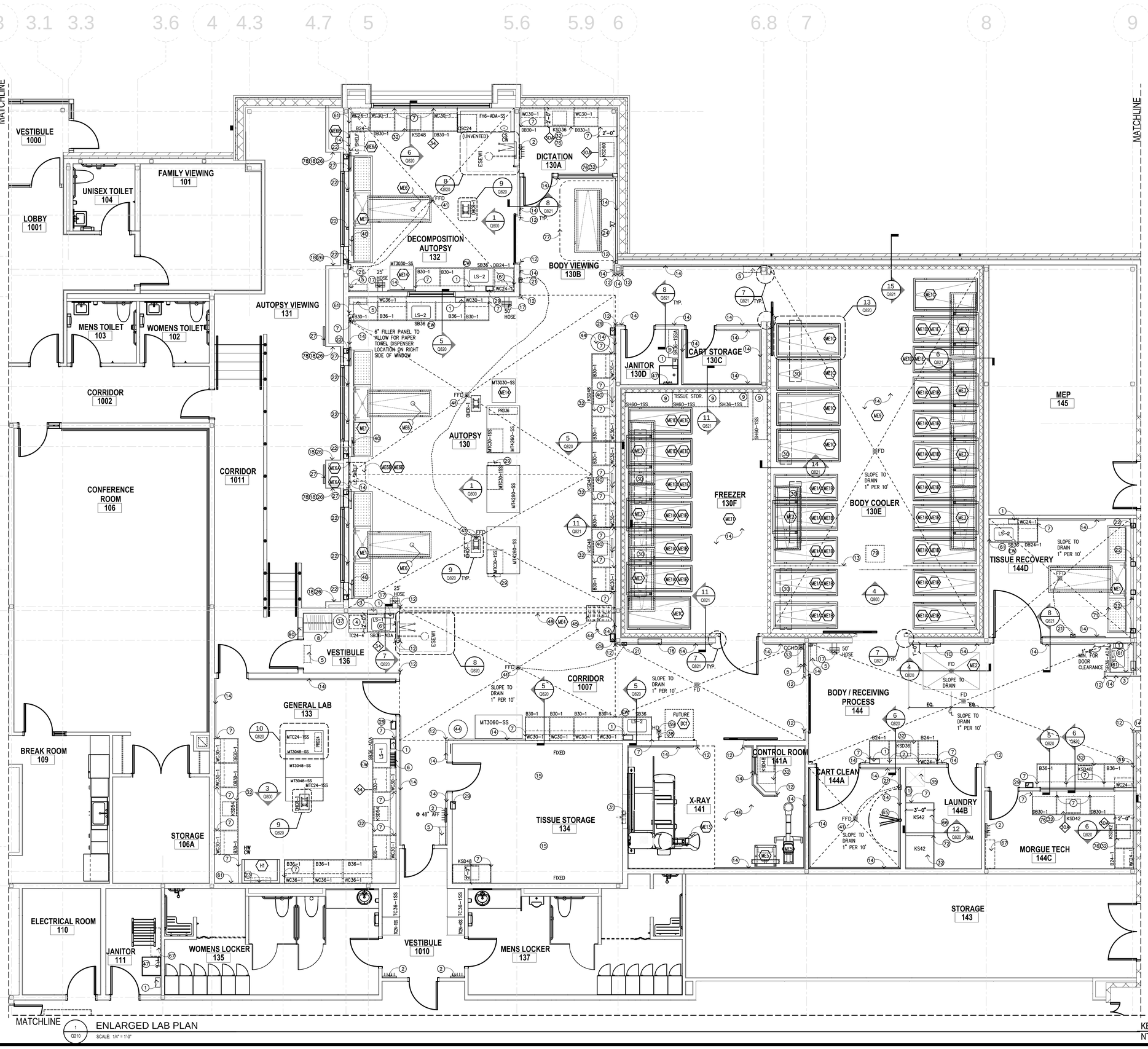

KEY SYMBOLS

- (L) LOCKING
- (M) MONITOR TO BMS
- (DW) DECK MOUNTED DRENCH HOSE EYEWASH FIXTURE
- (XX) MARINE EDGE COUNTER ELEVATION IN INCHES
- (XX) NON-MARINE EDGE COUNTER ELEVATION IN INCHES
- (X) KEY NOTES
- (XX) EQUIPMENT
- XXX ROOM NUMBERS

ABBREVIATIONS

CCHD –COOLER CONDENSATE HD
HD –HUB DRAIN
FD –FLOOR DRAIN
FFD –FLUSHABLE FLOOR DRAIN
SS –STAINLESS STEEL

KEY NOTES

1. PAPER TOWEL DISPENSER– BY DIV. 10.
2. COAT HOOKS MOUNTED AT 60" U.N.O.–SPEC. 116000
3. SAFETY CABINET–SPEC. 116000
4. SPILL CART–SPEC. 116000
5. BUG ZAPPER MOUNTED @ +84" A.F.F.–BY DIV 26
6. EPOXY DRYING RACK – 18"x36" – SPEC. 123450
7. FILLER PANEL – MATCH CASEWORK MATERIAL
8. COAT RACK & SHELF–SPEC 116000
9. SS SHELVING–SPEC. 116000
10. DIGITAL READ OUT FOR SCALE @ 48" A.F.F.–SPEC. 117810
11. BOLLARD– REFER TO ARCHITECTURAL DETAILS
12. S.S. CORNER GUARD – REFER TO DET. 9/Q821
13. GALVANIZED FENCE WITH MANUAL SLIDE GATE INSIDE BODY COOLER BY COOLER MFR.
14. S.S. WALL GUARD – REFER TO DET. 10/Q821. S.S. WALL GUARDS IN ROOMS 130E AND 130F ARE TO BE BY COOLER MFR.
15. HIGH DENSITY SHELVING– BY DIV. 10
16. COOLER CONTROL PANEL–(SEMI–RECESSED)
17. HOT & COLD WATER MIXING STATION–BY DIV. 22
18. POWER BY DIVISION 26
19. ELECTRICAL RACEWAY TYPICAL–REFER TO ELECTRICAL DRAWINGS
20. SPRAY HOSE ASSEMBLY – 2 PER STATION, TYP. – SPEC. 117810
21. FLUSHING FLOOR DRAIN PUSH BUTTONS–BY DIV. 22
22. STEEL STRUCTURE TO SUPPORT DISSECTING STATIONS CONCEALED IN WALL – REFER TO STRUCTURAL
23. LIMS SYSTEM (NIC)
24. BODY VIEWING CAMERA– BY DIV. 26
25. TRASH RECEPTACLE (NIC)
26. DATA BY DIVISION 26
27. FLAT PANEL DIGITAL MONITOR w/ ARTICULATING ARM–OFOI
28. HYDRO ASPIRATOR HOSE – SPEC. 117810
29. GLOVE BOX– BY DIV. 123450 REFER TO DETAIL 15/Q820
30. APPROXIMATE LOCATION OF EVAPORATING UNITS IN COLD ROOMS MOUNTED NEAR CEILING
31. LOW ELEVATION EXHAUST–REFER TO MECHANICAL
32. OPEN TO FINISH WALL SURFACE
33. COOLER CONDENSATE HUB FLOOR DRAIN. –BY DIV. 22
34. 6" WALL BASE–REFER TO FINISH SCHEDULE.
35. SS UTILITY SINK–BY DIV. 22
36. CT CONTROL
37. CLOTHING HAMPER (NIC)
38. COLD WATER HOSE BIB MOUNTED @48" AFF– BY DIV. 22
39. 3' H X 4' W MARKER BOARD–SPEC. 101136
40. ARTICULATING WHITE BOARD–SPEC 116000
41. FLUSHABLE FLOOR DRAIN, BY DIV. 22
42. 2" CONDUIT TO ABOVE CEILING AND LIGHT REFER TO ELEVATION 1/Q800
43. S.S. SHELF – 8'L X 11"D–BY AUTOPSY TABLE MFR
44. TRASH CAN– (NIC)
45. ULTIMATE 1000 LB BODY LIFT– SPEC 117810
46. X–RAY ROOM TO BE SHIELDED PER QUALIFIED PHYSICIST CONSULTANT PRIOR TO CONSTRUCTION. COORDINATE WITH COUNTY.
47. MOP AND BROOM HOLDER RACK–SPEC. 116000
48. EXHAUST DUCT TO TACD–36– BY DIV. 23
49. BODY HOIST BEAM BY STRUCTURAL
50. 1–5/8" STL. TUBE FRAMING. OMIT FRONT & BACK APRONS
51. SCALE POLE BRACKET
52. INSTRUMENT DRAWER
53. DISPOSAL SWITCH
54. GFCI OUTLET W/ WEATHERPROOF COVER
55. 2 HP DISPOSAL– SPEC. 117810
56. END RINSE CONTROL VALVE
57. GOOSENECK HW & CW FAUCET
58. EXHAUST VENTS BY DISSECTING STATION MFR. (6"X28") –COORDINATE DUCTWORK WITH DIV. 23
59. HUB DRAIN FOR DRYING CABINET
60. RECESSED GUN LOCKERS MT @ 54" C AFF– SPEC 123450
61. INTEGRAL COUNTERTOP SIDE SPLASH
62. COUNTERTOP ELEVATION TRANSITION INCLUDE SIDE SPLASH
63. EXHAUST VENTS BY DISSECTING STATION MFR. (6"X22") –COORDINATE DUCTWORK WITH DIV. 23
64. PROVIDE A FILLER PANEL AT CASEWORK ENDS AND INSIDE KNEE SPACES THAT COVER ALL EXPOSED BRACKETS & CASEWORK STRUCTURE.–REFER TO X/Q820 FOR EXAMPLE
65. SWING ARM WASH DOWN– BY DIV. 22
66. UNDER COUNTER WASHER AND DRYER. BENCH HEIGHT TO BE DETERMINED BY OWNER FURNISHED EQUIPMENT
67. 3'LX12"D METAL SHELF MOUNTED AT 60" AFF–BY CASEWORK MFR. REFER TO ELECTRICAL DRAWINGS FOR ASSOCIATED ELECTRICAL RECEPTACLES
68. FORMALIN SPROT
69. FORMALIN CONTAINER AND DISPENSING PUMP ON 18" DEEP SHELF
70. PUMP CONTROL FOR FORMALIN DISPENSER
71. DISSECTING STATION IN TISSUE RECOVERY 144D WILL BE THE TYPICAL STATION LAYOUT EXCEPT: NO FORMALIN DISPENSER, NO CUTTING BOARDS AND NO SCALE POLE, BUT INCLUDE SCALE POLE BRACKET
72. SUPPORT APRON– REFER TO DETAIL 12/Q820
73. EXHAUST DUCT–BY DIV 23
74. HOSE RACK– BY DIV. 22
75. OPEN TO WALL
76. A 30" HIGH KNEE SPACE REDUCE SUPPORT RAIL HEIGHTS TO 3" TO ALLOW FOR ADEQUATE KNEE SPACE.
77. BODY VIEWING CURTAIN AND TRACK–BY DIV. 10
78. CONDUIT TO AUTOPSY AUDIO EQUIPMENT
79. COOLER DEHUMIDIFICATION UNIT– REFER TO MEP DRAWINGS FOR EXACT LOCATION. LOCATE WITHIN 25 FEET OF THE COLD ROOM.

KEYPLAN
NTS

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DRAWING
ENLARGED FLOOR PLAN

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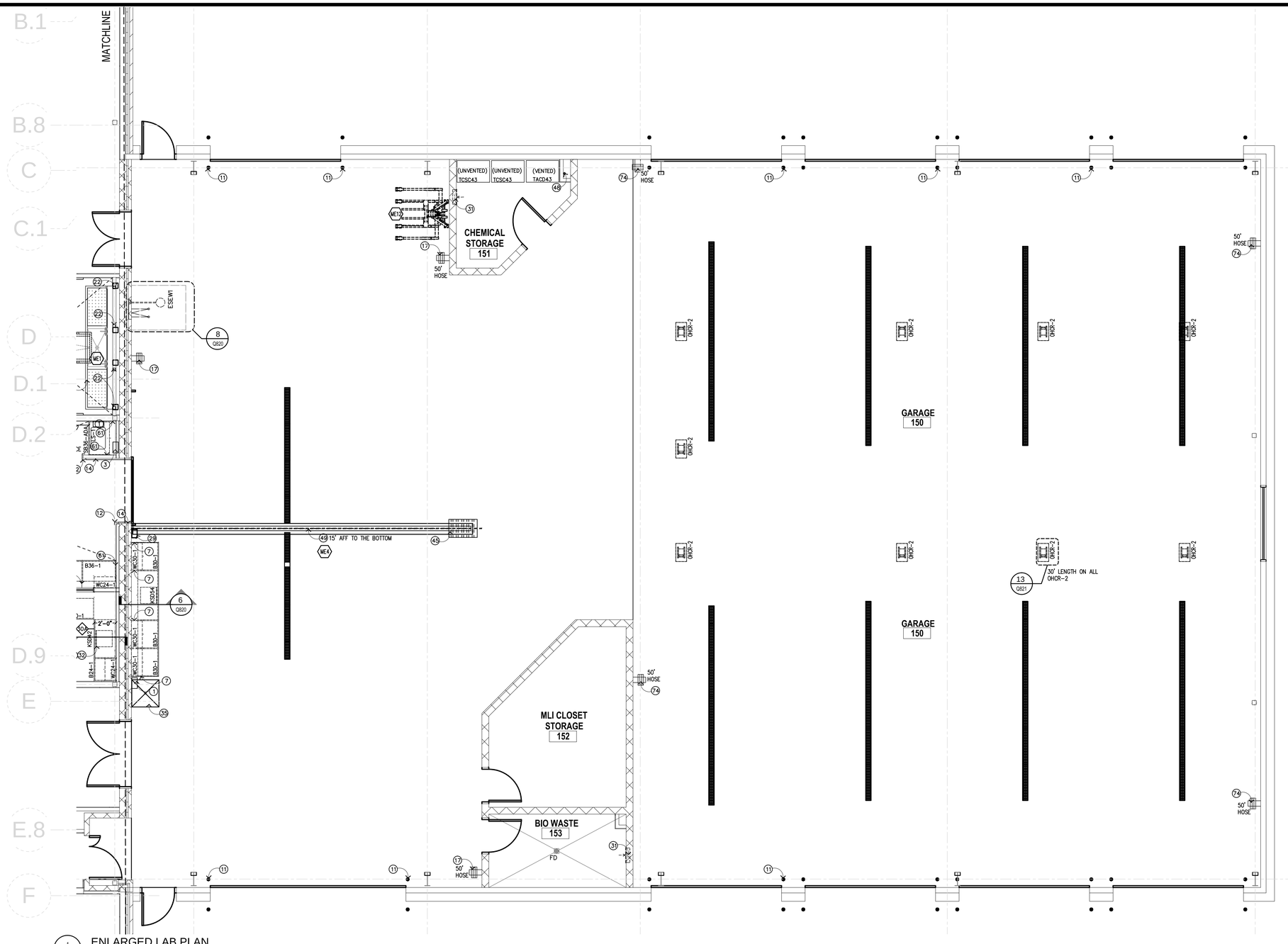
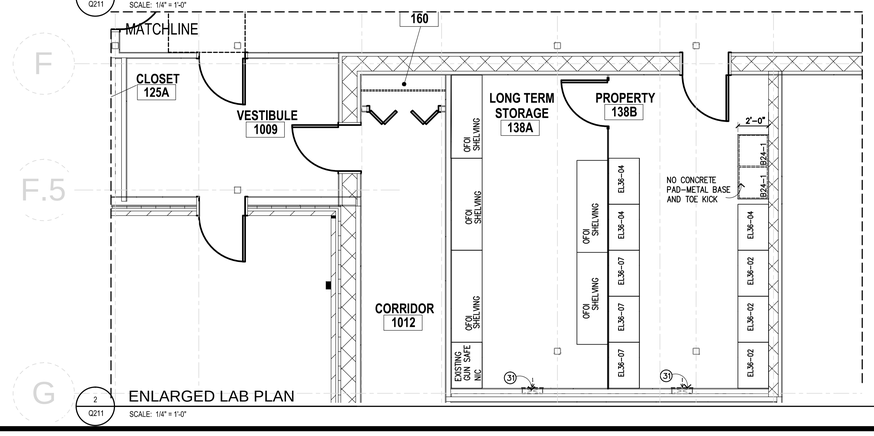
Q210



1 Q211 ENLARGED LAB PLAN
SCALE: 1/4" = 1'-0"



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25. TRASH RECEPTACLE (NIC)
26. DATA BY DIVISION 26
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28. HYDRO ASPIRATOR HOSE – SPEC. 117810
29. GLOVE BOX– BY DIV. 123450 REFER TO DETAIL 15/Q820
30. APPROXIMATE LOCATION OF EVAPORATING UNITS IN COLD ROOMS MOUNTED NEAR CEILING
31. LOW ELEVATION EXHAUST–REFER TO MECHANICAL
32. OPEN TO FINISH WALL SURFACE
33. COOLER CONDENSATE HUB FLOOR DRAIN. –BY DIV. 22
34. 6" WALL BASE–REFER TO FINISH SCHEDULE.
35. SS UTILITY SINK–BY DIV. 22
36. CT CONTROL
37. CLOTHING HAMPER (NIC)
38. COLD WATER HOSE BIB MOUNTED @48" AFF– BY DIV. 22
39. 3' H X 4' W MARKER BOARD–SPEC. 101136
40. ARTICULATING WHITE BOARD–SPEC 116000
41. FLUSHABLE FLOOR DRAIN, BY DIV. 22
42. 2" CONDUIT TO ABOVE CEILING AND LIGHT REFER TO ELEVATION 1/Q800
43. S.S. SHELF – 8'L X 11"D–BY AUTOPSY TABLE MFR
44. TRASH CAN– (NIC)
45. ULTIMATE 1000 LB BODY LIFT– SPEC 117810
46. X–RAY ROOM TO BE SHIELDED PER QUALIFIED PHYSICIST CONSULTANT PRIOR TO CONSTRUCTION. COORDINATE WITH COUNTY.
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50. 1–5/8" STL. TUBE FRAMING. OMIT FRONT & BACK APRONS
51. SCALE POLE BRACKET
52. INSTRUMENT DRAWER
53. DISPOSAL SWITCH
54. GFCI OUTLET W/ WEATHERPROOF COVER
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60. RECESSED GUN LOCKERS MT @ 54" C AFF– SPEC 123450
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65. SWING ARM WASH DOWN– BY DIV. 22
66. UNDER COUNTER WASHER AND DRYER. BENCH HEIGHT TO BE DETERMINED BY OWNER FURNISHED EQUIPMENT
67. 3'LX12"D METAL SHELF MOUNTED AT 60" AFF–BY CASEWORK MFR. REFER TO ELECTRICAL DRAWINGS FOR ASSOCIATED ELECTRICAL RECEPTACLES
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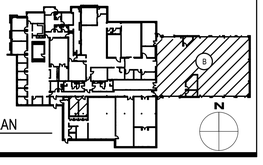
78. CONDUIT TO AUTOPSY AUDIO EQUIPMENT
79. COOLER DEHUMIDIFICATION UNIT– REFER TO MEP DRAWINGS FOR EXACT LOCATION. LOCATE WITHIN 25 FEET OF THE COLD ROOM.



KEYPLAN
NTS

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ISSUE
01.12.15 CONSTRUCTION DOCUMENTS

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www.mwlarchitects.com

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 County Highway AB
MCFARLAND, WI 53558

BID NO.
313083

DRAWING
ENLARGED FLOOR PLAN

DATE
01.12.15

Q211

KEY NOTES

DESIGNATES 6" THICK CONCRETE PAD FOR CASEWORK. COORDINATE ACTUAL DIMENSION OF CONCRETE PAD WITH SELECTED CASEWORK MANUFACTURER. CASEWORK TO HAVE A TYPICAL 4" DEEP TOE KICK.

ALL DIMENSIONS MUST BE VERIFIED BY SELECTED CASEWORK MANUFACTURER.

SELECTED CASEWORK MANUFACTURER TO PROVIDE COORDINATION DRAWINGS FOR APPROVAL PRIOR TO CONCRETE POUR.

POUR CONCRETE BASE AT 1/2" LESS THAN CABINET WIDTH ON BOTH SIDES TO ALLOW FOR CONSTRUCTION TOLERANCES. IF CASEWORK ENDS ON A WALL THEN DO NOT HOLD 1/2" LESS ON SIDE BUTTING INTO WALL. DO NOT POUR CONCRETE LENGTH 1/2" LESS IF CASEWORK BOOKENDS BETWEEN TWO WALLS.

AT 24" DEEP CASEWORK AND KNEE SPACES DELETE BACK PANEL AND RUN CONCRETE AND FLOOR BASE TO THE WALL.

REFER TO DETAIL 5,6 & 7/Q820 FOR DETAIL.

3 3.1 3.3 3.6 4 4.3 4.7 5 5.6 5.9 6 6.8 7 8

A A.2 A.5 B B.1 B.8 C C.1 D D.1 D.2 D.9 E E.8

MATCHLINE

VESTIBULE 1000
FAMILY VIEWING 101
UNISEX TOILET 104
LOBBY 1001
MENS TOILET 103
WOMENS TOILET 102
AUTOPSY VIEWING 131
CORRIDOR 1002
CONFERENCE ROOM 106
CORRIDOR 1011
DECOMPOSITION AUTOPSY 132
DICTATION 130A
BODY VIEWING 130B
AUTOPSY 130
TYP.
JANITOR 130D
CART STORAGE 130C
FREEZER 130F
BODY COOLER 130E
MEP 145
TISSUE RECOVERY 144D
VESTIBULE 136
CORRIDOR 1007
GENERAL LAB 133
BODY / RECEIVING PROCESS 144
FUTURE
FIXED
BREAK ROOM 109
STORAGE 106A
Ø 48" AFF
TISSUE STORAGE 134
X-RAY 141
CONTROL ROOM 141A
CART CLEAN 144A
KS42
KS42
SIM.
LAUNDRY 144B
MORGUE TECH 144C
ELECTRICAL ROOM 110
JANITOR 111
WOMENS LOCKER 135
VESTIBULE 1010
MENS LOCKER 137
STORAGE 143

MATCHLINE

1 Q210 ENLARGED LAB PLAN
SCALE: 1/4" = 1'-0"

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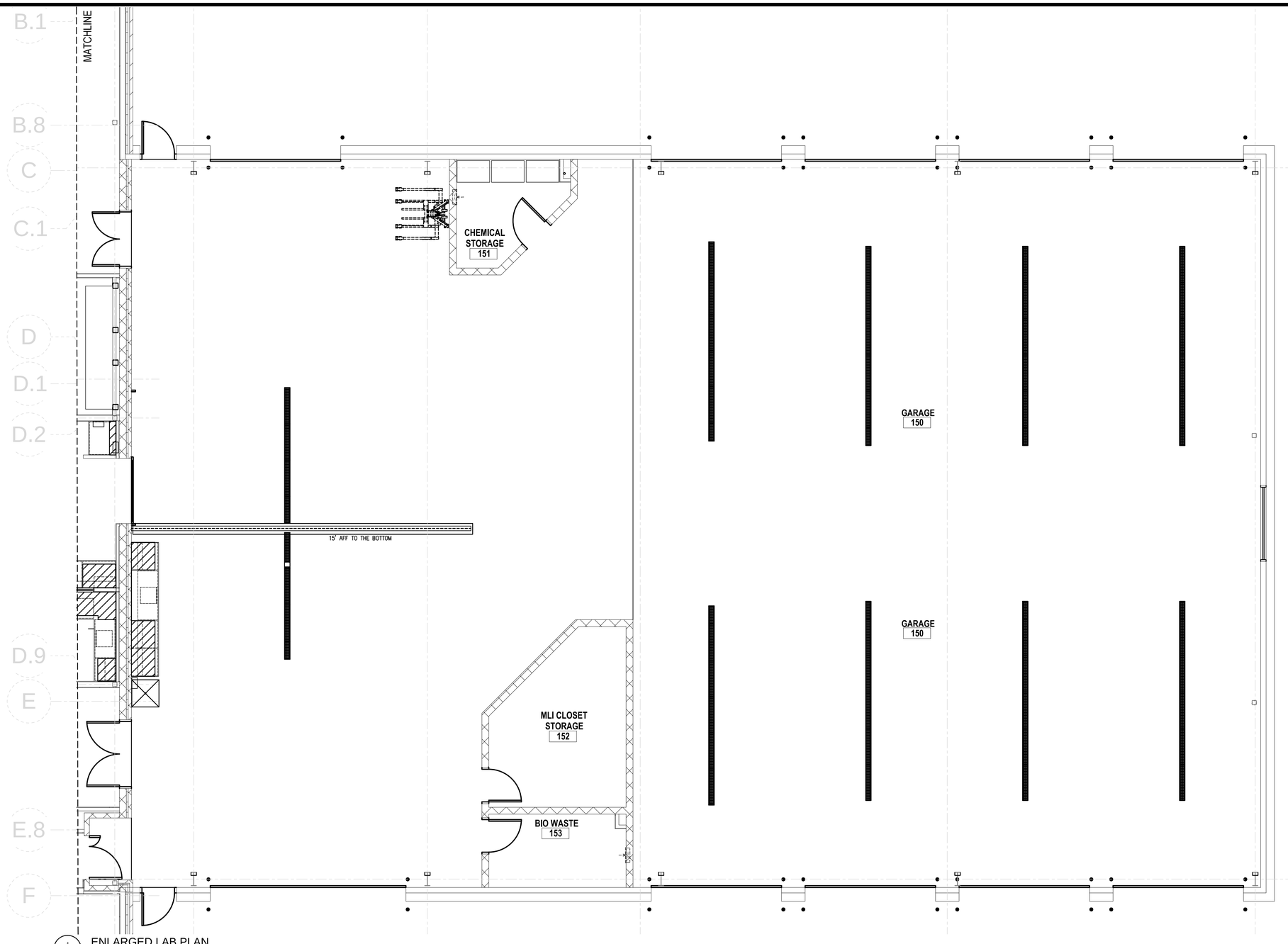
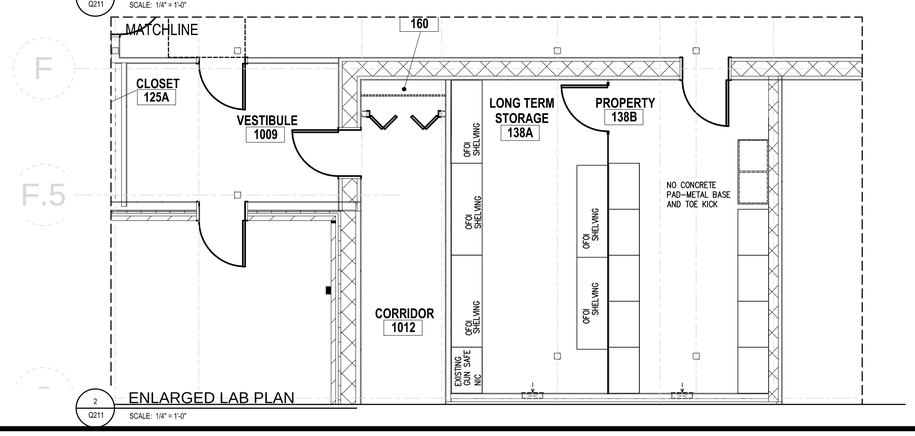
DRAWING
ENLARGED CASEWORK CONCRETE PLAN

DATE
01.12.15

Q212



1 Q211 ENLARGED LAB PLAN
SCALE: 1/4" = 1'-0"



2 Q211 ENLARGED LAB PLAN
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KEYPLAN
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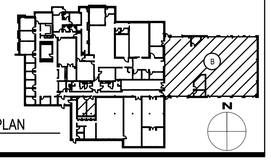

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DRAWING
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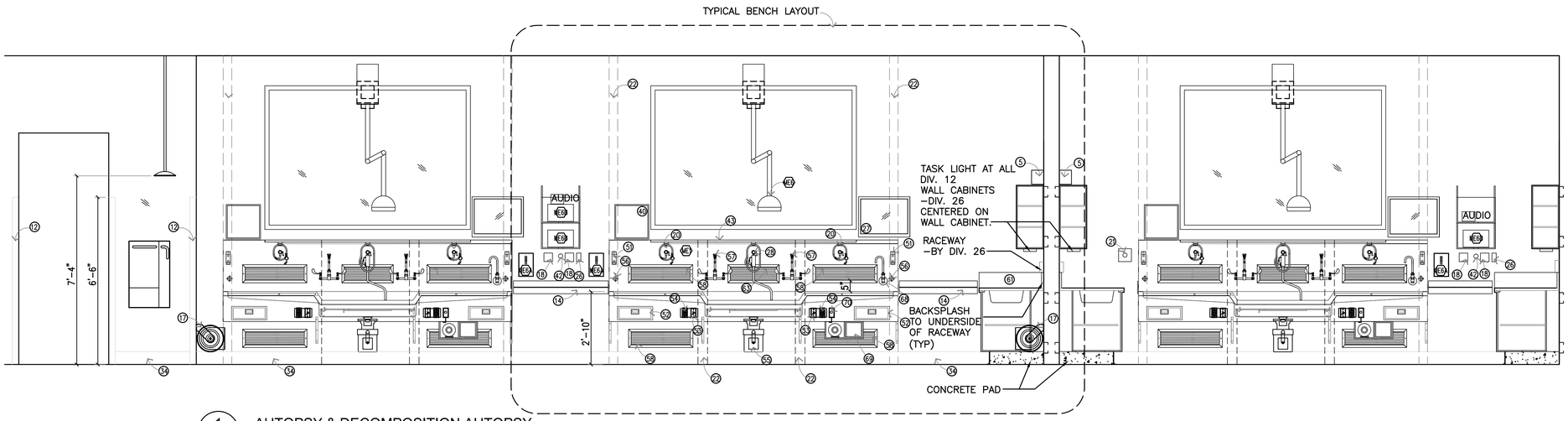
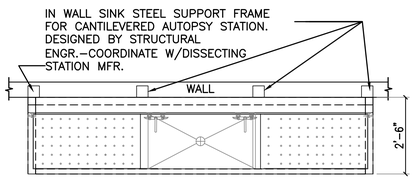
01.12.15

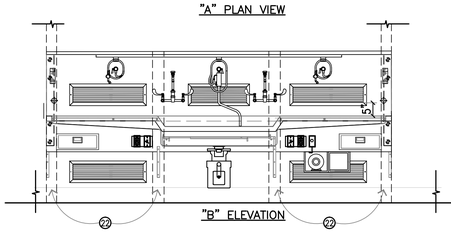
Q213

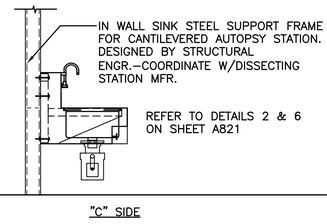


1 Q800 AUTOPSY & DECOMPOSITION AUTOPSY

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

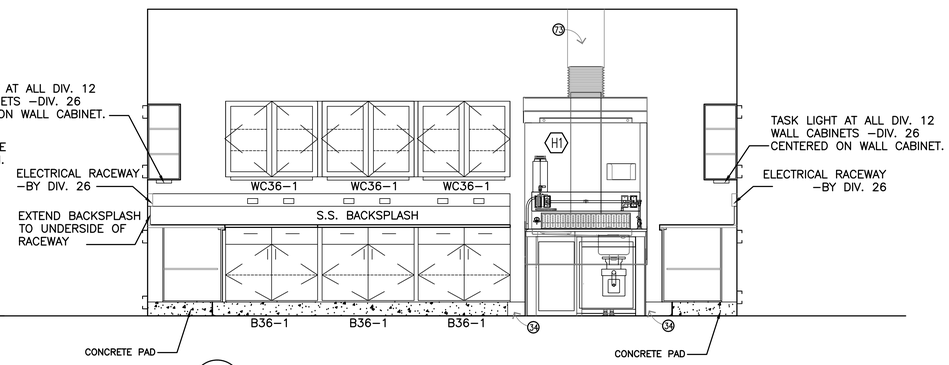






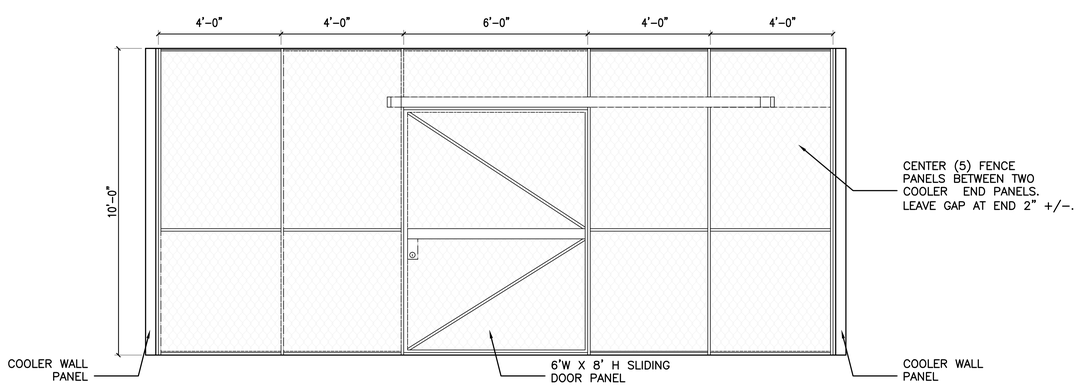
2 Q800 AUTOPSY STATION SUPPORTS

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



3 Q800 GENERAL LAB

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



4 Q800 GALVANIZED FENCE WITH MANUAL SLIDE DOOR KN # 13

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

KEY SYMBOLS

- (L) LOCKING
- (M) MONITOR TO BMS
- (EW) DECK MOUNTED DRENCH HOSE EYEWASH FIXTURE
- ◇ MARINE EDGE COUNTER ELEVATION IN INCHES
- ◇XX◇ NON–MARINE EDGE COUNTER ELEVATION IN INCHES
- (X) KEY NOTES
- ⟨XX⟩ EQUIPMENT
- XXX ROOM NUMBERS

ABBREVIATIONS

CCHD –COOLER CONDENSATE HD
HD –HUB DRAIN
FD –FLOOR DRAIN
FFD –FLUSHABLE FLOOR DRAIN
SS –STAINLESS STEEL

KEY NOTES

1. PAPER TOWEL DISPENSER– BY DIV. 10.
2. COAT HOOKS MOUNTED AT 60" U.N.O.–SPEC. 116000
3. SAFETY CABINET–SPEC. 116000
4. SPILL CART–SPEC. 116000
5. BUG ZAPPER MOUNTED @ +84" A.F.F.–BY DIV 26
6. EPOXY DRYING RACK – 18"x36" – SPEC. 123450
7. FILLER PANEL – MATCH CASEWORK MATERIAL
8. COAT RACK & SHELF–SPEC 116000
9. SS SHELVING–SPEC. 116000
10. DIGITAL READ OUT FOR SCALE @ 48" A.F.F.–SPEC. 117810
11. BOLLARD– REFER TO ARCHITECTURAL DETAILS
12. S.S. CORNER GUARD – REFER TO DET. 9/Q821
13. GALVANIZED FENCE WITH MANUAL SLIDE GATE INSIDE BODY COOLER BY COOLER MFR.
14. S.S. WALL GUARD – REFER TO DET. 10/Q821. S.S. WALL GUARDS IN ROOMS 130E AND 130F ARE TO BE BY COOLER MFR.
15. HIGH DENSITY SHELVING– BY DIV. 10
16. COOLER CONTROL PANEL–(SEMI–RECESSED)
17. HOT & COLD WATER MIXING STATION–BY DIV. 22
18. POWER BY DIVISION 26
19. ELECTRICAL RACEWAY TYPICAL–REFER TO ELECTRICAL DRAWINGS
20. SPRAY HOSE ASSEMBLY – 2 PER STATION, TYP. – SPEC. 117810
21. FLUSHING FLOOR DRAIN PUSH BUTTONS–BY DIV. 22
22. STEEL STRUCTURE TO SUPPORT DISSECTING STATIONS CONCEALED IN WALL – REFER TO STRUCTURAL
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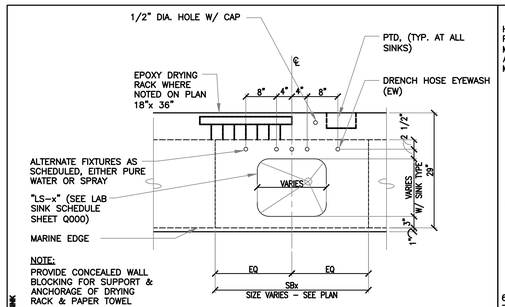
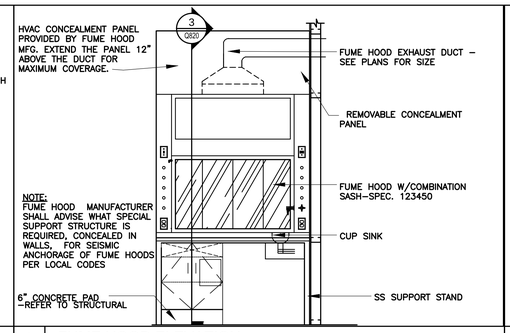
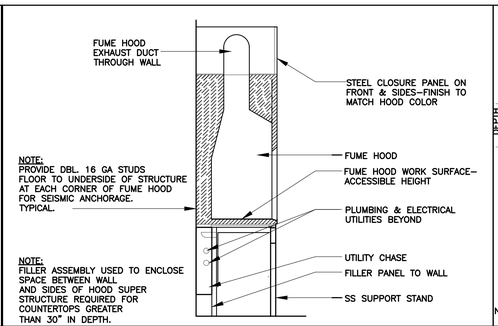


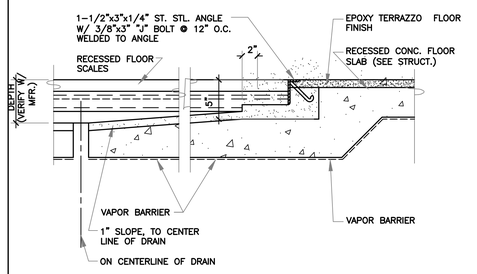
1 TYPICAL SINK DETAIL "SBx" 3/4" = 1'-0"



2 FUME HOOD ELEVATION 1/2" = 1'-0"

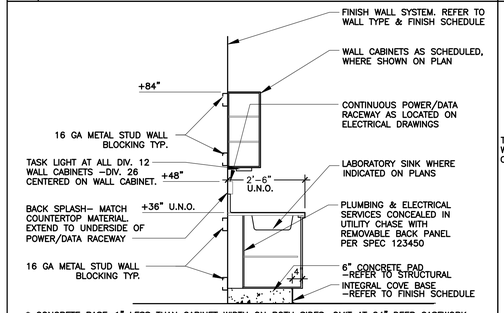


3 FUME HOOD SECTION 1/2" = 1'-0"



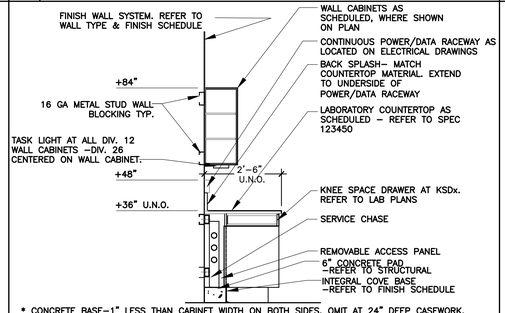
NOTE: VERIFY DEPTH, WIDTH, LENGTH, REQUIREMENTS AND ALL DIMENSIONS W/ FLOOR SCALE MANUFACTURER PRIOR TO INSTALLATION. COORDINATE ELECTRICAL REQUIREMENTS W/ ELECTRICAL DRAWINGS.

4 RECESSED SCALE 1 1/2" = 1'-0"



* CONCRETE BASE-1" LESS THAN CABINET WIDTH ON BOTH SIDES. OMIT AT 24" DEEP CASEWORK.

5 FIXED WALL CABINETRY @ SINKS 1/2" = 1'-0"



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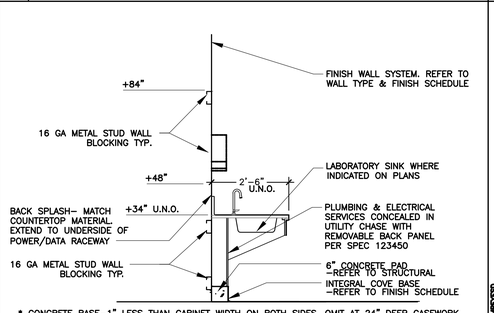
6 TYPICAL KNEE DESK SPACE DETAIL 1/2" = 1'-0"



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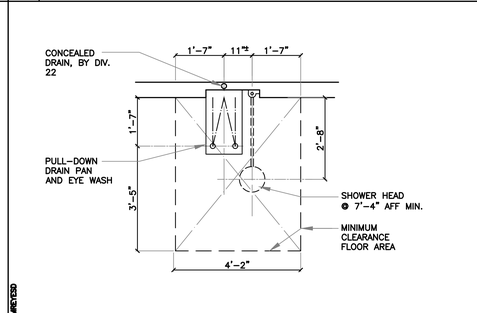
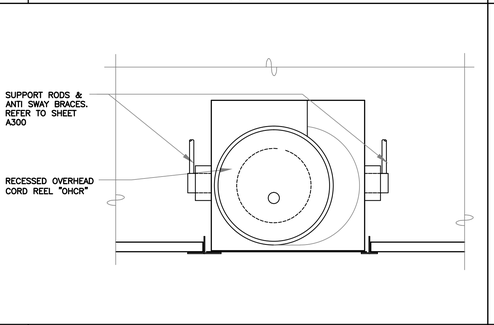
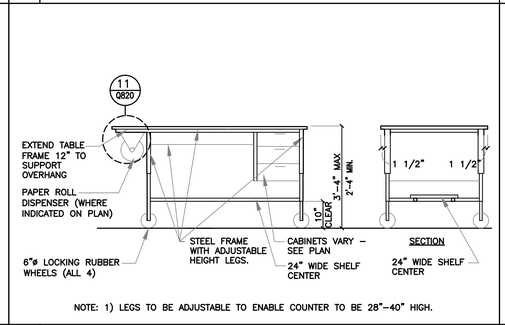
7 FIXED WALL CABINETRY @ BASE CABINETS 1/2" = 1'-0"



8 "SWING DOWN" EYE WASH / SHOWER "ESEW1" 1/2" = 1'-0"

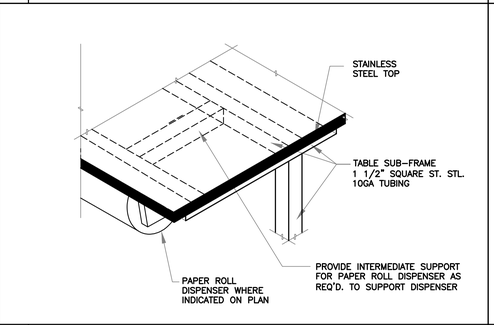


9 RECESSED CORD REEL (OHCR-1)

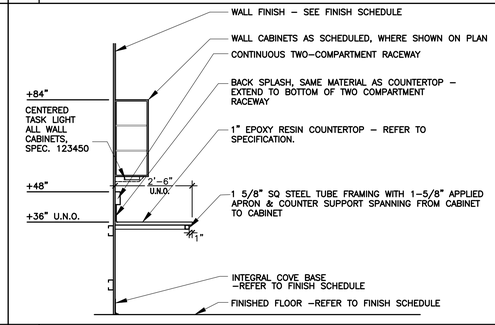


NOTE: 1) LEGS TO BE ADJUSTABLE TO ENABLE COUNTER TO BE 28"-40" HIGH.

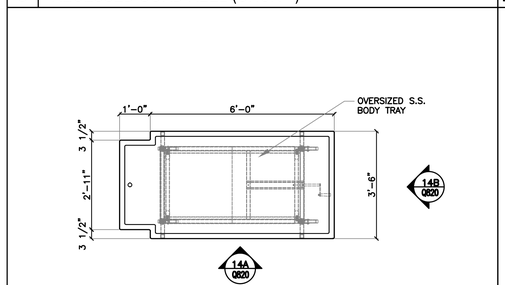
10 MOBILE TABLE ELEV. W/ PAPER ROLL 1/2" = 1'-0"



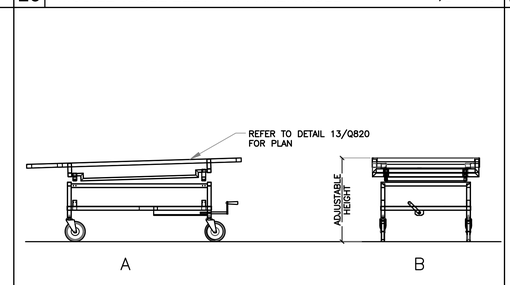
11 PAPER ROLL DISPENSER 1/2"=1'-0"



12 TYPICAL KNEE SPACE @ 1 5/8" APRON

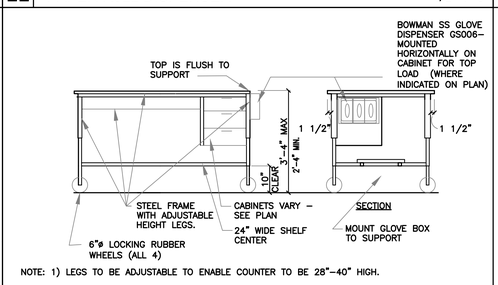


13 BARIATRIC DISSECTING TABLE PLAN 1/2" = 1'-0"



NOTE: ALL S.S. CONSTRUCTION

14 BARIATRIC DISSECTING TABLE ELEVATIONS 1/2" = 1'-0"



NOTE: 1) LEGS TO BE ADJUSTABLE TO ENABLE COUNTER TO BE 28"-40" HIGH.

15 MOBILE TABLE ELEV. W/ GLOVE BOX 1/2" = 1'-0"

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ISSUE
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www.mwlarchitects.com

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

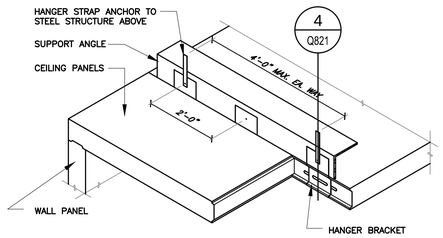
3562 County Highway AB
MCFARLAND, WI 53558

BID NO.
313083

DRAWING
AUTOPSY DETAILS

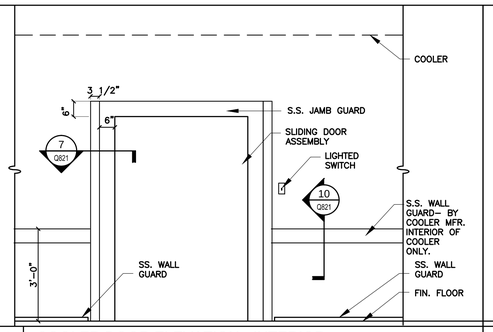
DATE
01.12.15

Q820

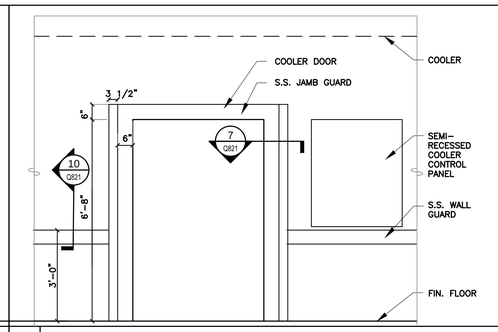


NOTE: DESIGN ALL COOLER AND FREEZER CEILING PANELS TO SUPPORT A LIVE LOAD OF 50 PSF.

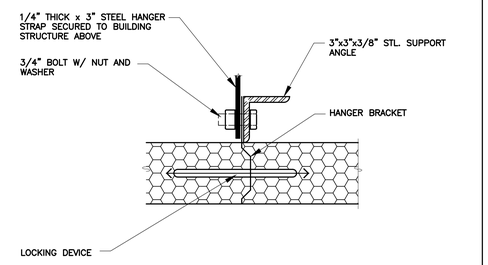
1 SUSPENDED COOLER CEILING 1–1/2" = 1'–0"



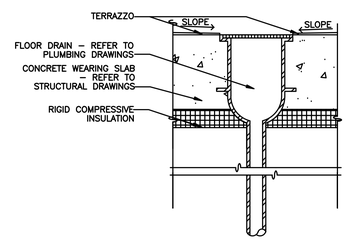
2 COOLER DOOR ELEVATION - INTERIOR 1/2" = 1'–0"



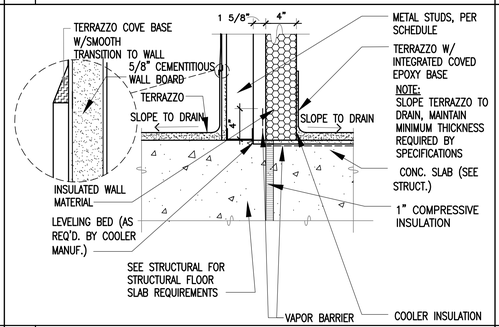
3 COOLER DOOR ELEVATION 1/2" = 1'–0"



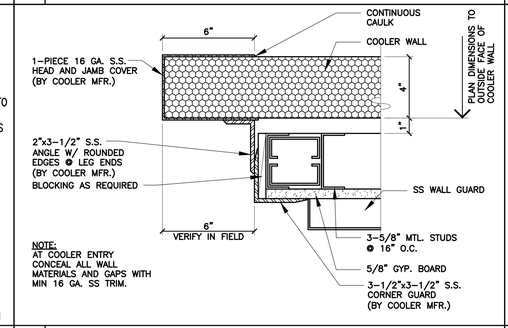
4 COOLER CEILING HANGER 3" = 1'–0"



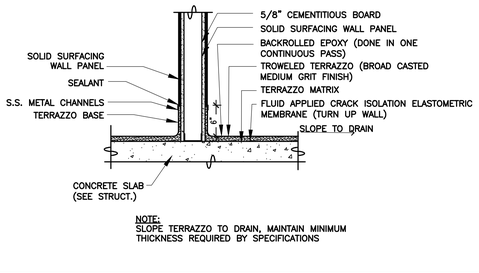
5 COOLER FLOOR DRAIN DETAIL NTS



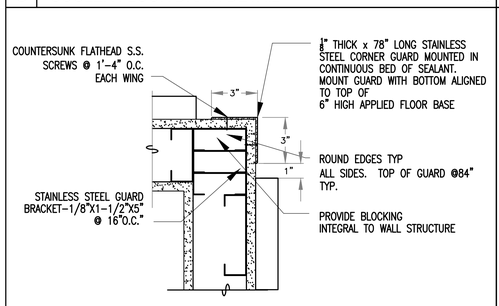
6 COOLER WALL TO SLAB DETAIL 1–1/2"=1'–0"



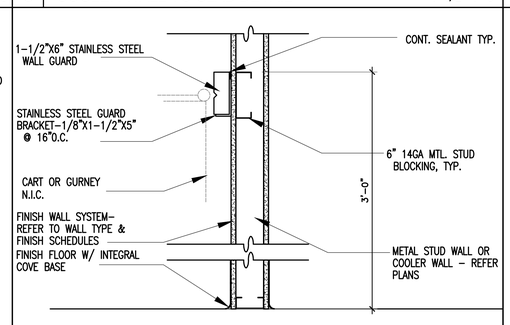
7 DOOR COOLER JAMB & HEADER 3" = 1'–0"



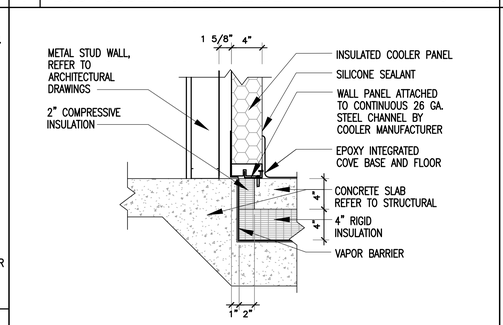
8 FLOOR SYSTEM SECTION 1/2" = 1'–0"



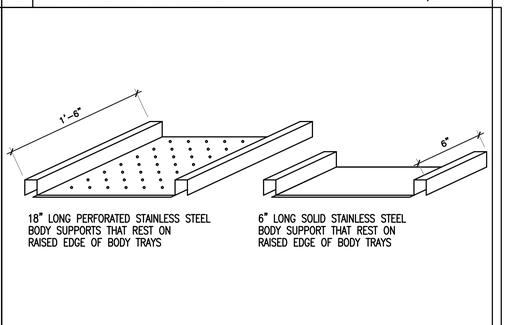
9 TYPICAL S.S. CORNER GUARD DETAIL 3"=1'–0"



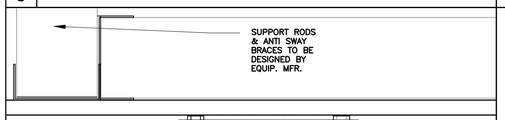
10 TYPICAL S.S. WALL GUARD DETAIL 1 1/2" = 1'–0"

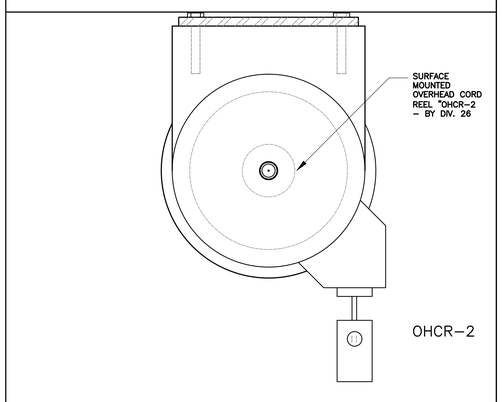


11 FREEZER SLAB DETAIL 1 1/2" = 1'–0"

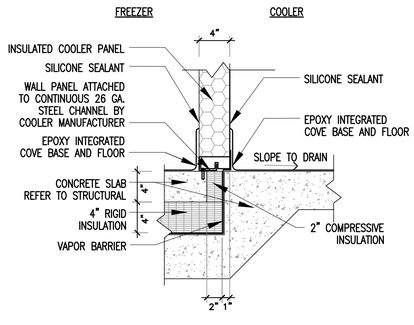


12 CUSTOM SS BODY SUPPORT 1 1/2" = 1'–0"

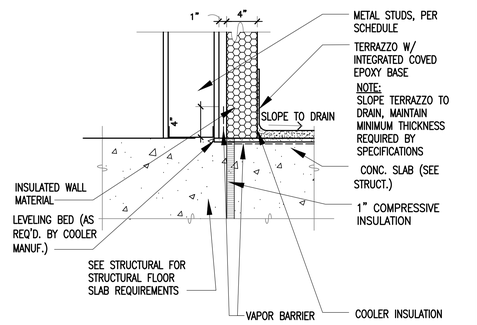




13 SURFACE MOUNTED CORD REEL 3"=1'–0"



14 FREEZER AND COOLER DETAIL 1 1/2"=1'–0"



15 COOLER WALL TO SLAB AT EXTERIOR 1 1/2"=1'–0"

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PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 County Highway AB
MCFARLAND, WI 53558

BID NO.
313083

DRAWING
AUTOPSY DETAILS

DATE
01.12.15

Q821

DESIGN DATA

DESIGN CODE:
2009 WISCONSIN COMMERCIAL BUILDING CODE

WIND LOAD INFORMATION:

BASIC WIND SPEED	90 MPH		
BUILDING OCCUPANCY CATEGORY	IV		
WIND LOAD IMPORTANCE FACTOR (Iw)	1.15		
WIND EXPOSURE	C		
ENCLOSURE CATEGORY			
MAIN BUILDING	ENCLOSED		
GARAGE (METAL BUILDING)	PARTIALLY ENCLOSED		
MWFRS			
WALLS	+19 psf		
ROOF	-10 psf		
COMPONENTS AND CLADDING (GROSS WIND PRESSURES) (FOR ENCLOSED BUILDING):			
(FOR ZONE DEFINITIONS & DIAGRAMS SEE DESIGN GUIDE ASCE/SEI 7 SECTION 6)			
WIDTH OF PRESSURE COEFFICIENT ZONE (a)	8 ft		
TRIBUTARY WIND LOAD AREAS:	10 ft²	50 ft²	100 ft²
ROOF (GABLE/HIP/MONOSLOPE):			
NEGATIVE ZONE 1	-22 psf	-20 psf	-20 psf
NEGATIVE ZONE 2	-36 psf	-27 psf	-23 psf
NEGATIVE ZONE 3	-55 psf	-33 psf	-23 psf
POSITIVE PRESSURE ALL ZONES	10 psf	10 psf	10 psf
WALLS:			
ZONE 4	-21 psf	-19 psf	-17 psf
ZONE 5	-26 psf	-21 psf	-17 psf
POSITIVE ZONE 4/5	20 psf	17 psf	15 psf

SEISMIC LOAD INFORMATION:

SEISMIC USE GROUP / OCCUPANCY CATEGORY	IV
SEISMIC LOAD IMPORTANCE FACTOR (Ie)	1.50
SEISMIC SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCELERATION (Ss)	11.4
MAPPED SPECTRAL RESPONSE ACCELERATION (S1)	4.5
SPECTRAL RESPONSE COEFFICIENT (Sds)	0.1222
SPECTRAL RESPONSE COEFFICIENT (Sd1)	0.072
SEISMIC DESIGN CATEGORY	C
RESPONSE MODIFICATION FACTOR	3.0
SEISMIC RESPONSE COEFFICIENT (Cs)	0.061
ANALYSIS PROCEDURE	EQUIVALENT LATERAL-FORCE

SNOW LOAD INFORMATION:

GROUND SNOW LOAD (Pg)	30 psf
SNOW EXPOSURE FACTOR (Ce)	1.00
SNOW LOAD IMPORTANCE FACTOR (Is)	1.2
THERMAL FACTOR (Ct)	1.00 (1.2 AT OVERHANGS)
DESIGN/BALANCED SNOW LOAD (Ps)	26 psf

SOIL LOAD INFORMATION:

COEFFICIENT OF SLIDING FRICTION (u)	0.40
LATERAL EARTH PRESSURE:	
ACTIVE	35 pcf
AT-REST	55 pcf
PASSIVE	200 pcf
ALLOWABLE NET SOIL BEARING PRESSURE	Qa = 3000 psf
FROST DEPTH	48"

SOILS INFORMATION FROM CGC, INC
REPORT #C13079 DATED NOVEMBER 8, 2013.

LIVE LOADS:

ROOF ACCESS ABOVE ROOM 133	60 psf
MEZZANINES IN GARAGE	75 psf

ROOM 107 - SAFE ROOM & 911 CENTER:
WIND SPEEDS OF 165 MPH
WALLS (C&C): +59/-73 psf.
ROOF DOWNWARD: 100psf GRAVITY + 23 psf WIND.
ROOF UPWARD: GROSS UPLIFT 80 psf

MATERIAL DESIGN PROPERTIES

CONCRETE STRENGTHS:

FOOTINGS / FOUNDATION WALLS / PIERS	f'c = 3000 psi
INTERIOR SLAB ON GRADE	f'c = 3500 psi
EXTERIOR SLAB ON GRADE	f'c = 4500 psi
SLAB ON GRADE AT GARAGE	f'c = 4000 psi
CONCRETE FOR BASE/WALLS/CAP OF STORM SHELTER ROOM 107	f'c = 5000 psi

REINFORCING STEEL STRENGTHS:

BARS (ASTM A 615, grade 60)	fy = 60,000 psi
WWF (ASTM A 185)	fy = 65,000 psi

STRUCTURAL MASONRY STRENGTHS:

ASTM C 90, grade N (CMU)	f'm = 2500 psi
ASTM C 55, grade N (CONCRETE BRICK)	f'm = 2500 psi
ASTM C 652, grade SW (CLAY HOLLOW BRICK)	f'm = 3000 psi
MORTAR (ASTM C 270):	
TYPE M (BELOW GRADE)	fu = 2500 psi
TYPE S (ABOVE GRADE)	fu = 1800 psi
GROUT (ASTM C 476):	
BOND BEAMS (pea gravel)	f'c = 3000 psi
MASONRY WALLS AND PIERS (pea gravel)	f'c = 3000 psi

STRUCTURAL STEEL STRENGTHS:

WF SHAPES (ASTM A992)	Fy = 50,000 psi
ANGLES, CHANNELS, PLATES, & BARS (ASTM A36)	Fy = 36,000 psi
SQUARE & RECTANGULAR TS OR HSS SECTIONS (ASTM A500, grade B)	Fy = 46,000 psi
ROUND HSS SECTIONS (ASTM A500, grade B)	Fy = 42,000 psi
STEEL PIPE (ASTM A53, grade B)	Fy = 35,000 psi
HIGH STRENGTH BOLTS (ASTM A325)	

EARTHWORK NOTES

1. ALL TOPSOIL, DEBRIS, SILTS, AND ORGANIC MATERIAL SHALL BE STRIPPED AND REMOVED FROM LIMITS OF EXCAVATIONS. SITE SHALL BE PROOF ROLLED PER FOUNDATION REPORT.
2. FILL MATERIAL SHALL BE PLACED AND COMPACTED IN LIFTS NO THICKER THAN 8". EACH LIFT SHALL MEET COMPACTION REQUIREMENTS PRIOR TO PLACEMENT AND COMPACTION OF ADDITIONAL LIFTS.
3. FILL MATERIALS SHALL BE PLACED AND COMPACTED AT +1% TO -4% OPTIMUM MOISTURE CONTENT TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY, UNLESS RECOMMENDED OTHERWISE BY A QUALIFIED SOILS ENGINEER. COMPACT TO 95% MODIFIED PROCTOR.
4. UNSATISFACTORY SOILS LOCATED BELOW FOUNDATIONS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE SOILS ENGINEER.

FOUNDATION PLAN NOTES

1. CONTRACTOR SHALL PROVIDE FROST AND MOISTURE PROTECTION FOR FOOTINGS EXPOSED DURING CONSTRUCTION.
2. REFER TO ARCHITECTURAL DRAWINGS OR PLUMBING DRAWINGS FOR SPECIFIC FLOOR DRAIN LOCATIONS & ELEVATIONS.
3. REFER TO S300 FOR MISCELLANEOUS DETAILS NOT CUT ON PLAN.
4. NO PROVISION HAS BEEN MADE FOR FUTURE EXPANSION.
5. VERIFY SIZES OF ALL STOOPS WITH ARCHITECT PRIOR TO CONSTRUCTION.

LATERAL BRACING NOTE

1. THE BUILDING RELIES ON DIAGONAL STEEL TUBE BRACES AND THE CONSTRUCTION OF THE STORM SHELTER AT ROOM 107 FOR STABILITY.

CAST-IN-PLACE CONCRETE NOTES

1. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST PROVISION OF ACI 318/318R.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AT LEAST 48 HOURS PRIOR TO PLACING CONCRETE TO FACILITATE ON SITE OBSERVATION OF REBAR.
3. WHEN THE AVERAGE TEMPERATURE FROM MIDNIGHT TO MIDNIGHT IS EXPECTED TO DROP BELOW 40°F FOR THREE SUCCESSIVE DAYS, COLD WEATHER CONCRETING REQUIREMENTS MUST BE FOLLOWED.
4. WHEN AMBIENT AIR OR CONCRETE TEMPERATURES EXCEED 90°F, STEEL REINFORCING AND/OR FORMING SURFACES ARE ABOVE 120°F, OR WHEN WIND VELOCITY, HUMIDITY, OR SOLAR RADIATION CREATE CONDITIONS OF ACCELERATED MOISTURE LOSS AND INCREASED RATE OF HYDRATION, HOT WEATHER CONCRETING REQUIREMENTS SHALL BE FOLLOWED.
5. ALL CONCRETE SURFACES SHALL BE FORMED, UNLESS NOTED OTHERWISE.
6. CONTROL JOINTS SHALL BE PLACED IN SLAB ON GRADE AND SLAB ON METAL DECK CONSTRUCTION WITHIN 24 HOURS OF INITIAL POUR.
7. PROVIDE ISOLATION BOARD WHERE SLABS ABUT VERTICAL SURFACES AS SHOWN IN FOUNDATION AND FRAMING DETAILS.
8. SLEEVES, CONDUITS, OR PIPES THROUGH SLABS AND WALLS SHALL BE PLACED AT THREE DIAMETERS ON CENTER, OR 4 INCHES MINIMUM.
9. ALUMINUM CONDUIT OR PIPING SHALL NOT BE CAST IN CONCRETE.
10. PROVIDE A 3/4" CHAMFER ON EXPOSED CORNERS OF CONCRETE, UNLESS NOTES OTHERWISE. TOP EDGES OF WALLS SHALL BE TOOLED, UNLESS NOTED OTHERWISE.
11. FINISH & COVER CONCRETE SLABS w/ FILM FORMING CURING COMPOUND OR VAPOR RETARDER UNO OR SPECIFIED OTHERWISE.

COLD WEATHER CONCRETING NOTES

1. SNOW, FROST, AND ICE SHALL BE REMOVED FROM ALL SURFACES, INCLUDING REINFORCING, AGAINST WHICH THE CONCRETE IS TO BE PLACED.
2. DO NOT PLACE CONCRETE ON FROZEN SUBGRADE.
3. THE MINIMUM PLACEMENT AND PROTECTION TEMPERATURE OF CONCRETE SHALL BE AS FOLLOWS:

LEAST DIMENSION OF SECTION	MINIMUM TEMPERATURE OF CONCRETE AS PLACED AND MAINTAINED DURING PROTECTION PERIOD
LESS THAN 12"	55°F
12" TO LESS THAN 36"	50°F
36" TO 72"	45°F
GREATER THAN 72"	40°F

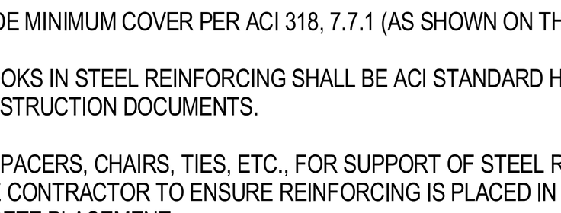
4. TEMPERATURES OF CONCRETE SHALL BE MEASURED AT THE CONCRETE SURFACE.
5. CONCRETE TEMPERATURES SHALL BE MEASURED AND RECORDED FOR THE FIRST 3 DAYS UPON PLACEMENT OF CONCRETE, AT THE BEGINNING, MIDDLE, AND END OF EACH WORK DAY AT 4 HOUR INTERVALS. OVERNIGHT TEMPERATURE MEASUREMENTS ARE NOT REQUIRED.
6. HEATED AIR TEMPERATURES SHALL NOT EXCEED THE REQUIRED CONCRETE TEMPERATURES LISTED IN TABLE ABOVE BY MORE THAN 20°.
7. CONCRETE SHALL BE CURED AND PROTECTED AGAINST DAMAGE FROM FREEZING FOR A MINIMUM PERIOD OF 3 DAYS.
8. DURING PERIODS NOT DEFINED AS COLD WEATHER, BUT WHEN FREEZING TEMPERATURES MAY OCCUR, PROTECT CONCRETE SURFACES FROM FREEZING FOR THE FIRST 24 HOURS AFTER PLACEMENT.
9. IF TEMPERATURE REQUIREMENTS DURING PROTECTION PERIOD ARE NOT MET, BUT CONCRETE WAS PREVENTED FROM FREEZING, CONTACT ARCHITECT/ENGINEER FOR EXTENT OF ADDITIONAL PROTECTION TIME REQUIRED.

HOT WEATHER CONCRETING NOTES

1. CONCRETE MIXES TO BE PLACED DURING DRY AND WINDY CONDITIONS SHALL BE MODIFIED BY THE ADDITION OF RETARDING ADMIXTURES OR SLOWER CURING CEMENT SUBSTITUTES TO MINIMIZE THE EFFECTS OF ACCELERATED CURING.
2. WATER SHALL NOT BE ADDED TO CONCRETE MIXES ON SITE FOR WORKABILITY. MID OR HIGH RANGE WATER REDUCERS SHALL BE APPROVED BY ENGINEER BEFORE ADDING TO CONCRETE MIX FOR INCREASED WORKABILITY.
3. INGREDIENTS USED IN CONCRETE MIXES SHALL BE COOLED TO MAINTAIN A CONCRETE TEMPERATURE BELOW 90°F AT TIME OF PLACEMENT.
4. CHILLED WATER AND CHOPPED ICE MAY BE USED IN CONCRETE MIXTURES TO CONTROL CONCRETE TEMPERATURES. AMOUNT OF CHOPPED ICE SHALL NOT EXCEED THE EQUIVALENT AMOUNT OF MIXING WATER REQUIRED FOR THE DESIGN MIX.
5. RETARDING ADMIXTURES SHALL NOT BE USED IN CONCRETE MIXES WITHOUT THE APPROVAL OF THE ENGINEER.

CONCRETE REINFORCING NOTES

1. REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 (CURRENT EDITION). ARRANGEMENT AND BENDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI DETAILING MANUAL (ACI SP-66), LATEST EDITION.
2. ALL LAPS SHALL BE CLASS "B" PER ACI 318 UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS, OR UNLESS THE DETAILER TAKES SPECIAL CARE TO PROVIDE STAGGERED LAPS. USE TOP BAR LAP LENGTHS FOR ALL HORIZONTAL WALL BARS AND FOR TOP BARS IN SLABS AND BEAMS OVER 12" DEEP.
3. LAP LENGTH SHALL BE SPECIFICALLY NOTED ON PLACING DRAWINGS WHERE MORE THAN ONE BAR MAKES UP A CONTINUOUS STRING.
4. CORNER BARS WITH CLASS "B" PER ACI 318 LAPS SHALL BE PROVIDED AT ALL WALL CORNERS AND INTERSECTIONS PER DETAIL 1/S500.
5. HORIZONTAL BARS, EXCEPT FOR CONTINUOUS STRINGS FROM ONE CORNER OF OPENING TO ANOTHER, SHALL BE DETAILED TO SHOW THE DISTANCE FROM AT LEAST ONE END OF THE BAR TO THE NEAREST BUILDING GRID LINE OR WALL.
6. WELDED WIRE FABRIC SHALL BE LAPPED AND/OR ANCHORED TO DEVELOP Fy PER ACI 315.



7. PROVIDE MINIMUM COVER PER ACI 318, 7.7.1 (AS SHOWN ON THIS SHEET)
8. ALL HOOKS IN STEEL REINFORCING SHALL BE ACI STANDARD HOOKS, UNLESS NOTED OTHERWISE IN CONSTRUCTION DOCUMENTS.
9. WIRE SPACERS, CHAIRS, TIES, ETC., FOR SUPPORT OF STEEL REINFORCING SHALL BE PROVIDED BY THE CONTRACTOR TO ENSURE REINFORCING IS PLACED IN THE PROPER POSITION DURING CONCRETE PLACEMENT.
10. STEEL REINFORCING SPLICES OF ADJACENT BARS SHALL BE STAGGERED SUCH THAT SPLICES ARE 4 FEET APART, MINIMUM.
11. PROVIDE (2) #5 BARS AROUND ALL OPENINGS AND (2) #5 DIAGONALLY AT ALL OPENING CORNERS UNLESS OTHERWISE SPECIFIED. EXTEND 2'-6" PAST OPENING, TYPICALLY.
12. WELDED WIRE REINFORCING SHALL BE IN FLAT SHEETS ONLY, AND LAPPED A MINIMUM OF 6 INCHES.
13. WELDING OF STEEL REINFORCING IS NOT PERMITTED.

CONCRETE REINFORCING SPLICE LENGTH TABLE

CONCRETE REINFORCING SPLICE LENGTH TABLE PER ACI 318-05 - (INCHES)

REBAR SIZE [5]	CONCRETE MEMBER: FTG. [3]	GRADE BEAM [4] (TOP)	GRADE BEAM [4] (BOTT)	WALL [4] HORIZ	WALL [4] VERT	SLAB [4]	BEAM [4] (TOP)	BEAM [4] (BOTT)	COLUMN [2]
#3	22	24	18	18	18	18	24	18	12
#4	29	32	25	25	25	25	32	25	15
#5	36	40	31	31	31	31	40	31	19
#6	43	48	37	37	37	37	48	37	23
#7	63	70	54	54	54	54	70	54	27
#8	72	80	62	62	62	62	80	62	30
#9	81	90	70	70	70	70	90	70	34
#10	91	102	79	79	79	79	102	79	38
#11	101	113	87	87	87	87	113	87	43
#14	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
#18	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

CONCRETE REINFORCING SPLICE LENGTH TABLE NOTES:
1. GENERALLY NOT PERMITTED
2. FOR COMPRESSION LAPS ONLY, Fy ≤ 60,000 PSI, F'c ≥ 3,000 PSI
3. F'c = 3,000 PSI
4. F'c = 4,000 PSI
5. ALL REINFORCEMENT ASSUMED UNCOATED.

CMU WALL CONSTRUCTION NOTES

1. IN ACCORDANCE WITH "ACI 530-05/ASCE 6-05/TMS 402-05 BUILDING CODE FOR MASONRY STRUCTURES" PROVIDE LEVEL B QUALITY ASSURANCE PER TABLE 1.15.2 AND AS REQUIRED IN CHAPTER 1. VERIFY f'm REQUIRED USING THE UNIT STRENGTH METHOD.
2. CMU SHALL BE LAID IN RUNNING BOND WITH TYPE S MORTAR (TYPE M BELOW GRADE).
3. PROVIDE MINIMUM (1) #5 VERTICAL BAR AT ALL WALL CORNERS, ENDS OF WALLS, AND EACH SIDE OF CONTROL JOINTS.
4. ALL REINFORCED CELLS SHALL BE GROUTED WITH PEA GRAVEL CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3,000psi.
5. HORIZONTAL REINFORCING AND BOND BEAM REINFORCING AT CORNERS SHALL BE LAPPED A MINIMUM OF 48 BAR DIAMETERS, OR 24" INCHES, WHICHEVER IS LARGER.
6. CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR, WHEN THE POUR HEIGHT EXCEEDS 5 FEET.
7. GROUT LIFTS SHALL NOT EXCEED 5 FEET. CONSOLIDATE GROUT AT TIME OF PLACEMENT.
8. FACE SHELLS AND WEB FORMING CELLS SHALL BE FULL-BEDDED IN THE STARTING COURSE ON FOUNDATIONS, AND IN ALL COURSES OF PIERS AND PILASTERS.
9. PROVIDE HORIZONTAL JOINT REINFORCING AT 16" OC VERTICALLY (8" OC IN PARAPET WALLS) UNLESS NOTED OTHERWISE.
10. HORIZONTAL JOINT REINFORCING SHALL BE TERMINATED AT CONTROL JOINTS. BOND BEAM REINFORCING SHALL BE CONTINUOUS.
11. REFER TO ARCHITECTURAL DRAWINGS FOR CONTROL JOINT SPACINGS.
12. SOLID OR SOLID GROUTED CMU SHALL BE PROVIDED IN COURSES IMMEDIATELY ABOVE AND BELOW ANY CHANGES IN WYTHE THICKNESS.
13. IN BLOCK WIDTH CHANGES, MAINTAIN CONTINUOUS RUNNING BOND. NO CONTINUOUS JOINTS AT TRANSITIONS.
14. COMPLY w/ REQUIREMENTS IN ACI 530 / ASCE 6 FOR GROUT CLEANOUTS AND PLACEMENT INCLUDING MINIMUM GROUT SPACE AND MAXIMUM POUR HEIGHT.

CAST-IN-PLACE CONCRETE TOLERANCES

1. CONCRETE COVER MEASURED PERPENDICULAR FROM THE SURFACE IN DIRECTION OF TOLERANCES:
   MEMBERS 12" OR LESS ± 3/8"
   MEMBERS OVER 12" ± 1/2"
2. STEEL REINFORCEMENT SPACING SHALL BE WITHIN THE FOLLOWING TOLERANCES:
   1/4" SPACING DISTANCE, NOT TO EXCEED 1"
3. PLACEMENT OF EMBEDDED ITEMS SHALL BE WITHIN THE FOLLOWING TOLERANCES:
   VERTICAL ALIGNMENT ± 1"
   LATERAL ALIGNMENT ± 1"
   LEVEL ALIGNMENT ± 1"
4. PLACEMENT OF FOOTINGS SHALL BE WITHIN THE FOLLOWING TOLERANCES:
   LATERAL ALIGNMENT ± 2"
   LEVEL ALIGNMENT + 1/2" TO - 2"
   (LEVEL ALIGNMENT SUPPORTING MASONRY) ± 1/2"
5. CROSS-SECTIONAL DIMENSION OF FOOTINGS SHALL BE WITHIN THE FOLLOWING TOLERANCES:
   FORMED FOOTINGS + 2" TO - 1/2"
   EARTHCAST FOOTINGS:
   2'-0" OR LESS + 3" TO - 1/2"
   GREATER THAN 2'-0" BUT LESS THAN 6'-0" + 6" TO - 1/2"
   GREATER THAN 6'-0" + 12" TO - 1/2"
   FOOTING THICKNESS ± 5%
6. TOP OF FOOTING SLOPE 1" IN 10'-0"

MILD REINFORCING STEEL MINIMUM CLEAR COVER

CONCRETE CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH:	
FOOTINGS:	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
WALLS, COLUMNS, BEAMS:	
UP THROUGH #5 BARS	1 1/2"
#6 THRU #18 BARS	2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
WALLS:	
UP THROUGH #11	3/4"
#14 AND #18 BARS	1 1/2"
ELEVATED SLABS:	
TOP	3/4"
BOTTOM	1"
BEAMS:	
TOP / BOTTOM / SIDE	1 1/2"
COLUMNS:	
SIDES	1 1/2"

(DIMENSIONS ABOVE ARE MINIMUMS, UNLESS NOTED OTHERWISE IN DETAILS)

PRECAST FLOOR FRAMING NOTES

1. CONSTRUCTION SHALL BE PRECAST HOLLOWCORE PLANK WITH BONDED TOPPING, OF THICKNESS INDICATED ON THE PLAN. MINIMUM TOPPING THICKNESS AT MIDSPAN OF PLANK SHALL BE 2". REINFORCE TOPPING SLAB w/ 6x6 W1.4 x W1.4 WWF, UNO. PRECAST SUPPLIER SHALL TAKE MID-SPAN TOPPING THICKNESS INTO ACCOUNT WHEN DETERMINING WHETHER THICKNESS IS SUFFICIENT TO FUNCTION INTEGRALLY WITH THE PLANK.
2. SEE PRECAST PLANK SCHEDULE FOR IMPOSED LOADS (IN EXCESS OF PLANK AND TOPPING).
3. GROUT PLANK KEYWAYS IN ACCORDANCE w/ MANUFACTURER'S RECOMMENDATIONS.
4. TOP OF TOPPING ELEVATION = 115' - 7 1/2", VERIFY w/ ARCHITECTURAL DRAWINGS.
5. DENOTES DIRECTION OF PLANK SPAN.
6. NO PROVISION HAS BEEN MADE FOR FUTURE EXPANSION.
7. LATERAL STABILITY IS PROVIDED BY CMU SHEAR WALLS AT PERIMETER.
8. PRECAST SUPPLIER TO USE THE STRUCTURAL PLANS, ALONG w/ THE ARCHITECTURAL PLANS, TO OBTAIN THE NECESSARY INFORMATION AND DESIGN REQUIREMENTS FOR THE PRECAST WALL PANELS.
9. THE INTENT OF THE PRECAST PLANK IN THE STRUCTURAL PLANS IS SCHEMATIC ONLY, PRECAST SUPPLIER TO VERIFY DESIGN.
10. PRECAST SUPPLIER SHALL DESIGN AND FURNISH ALL HEADERS FOR OPENINGS AS REQUIRED ON INDICATED IN THE PLANS. PRECAST SUPPLIER SHALL PROVIDE WELD PLATES AND OTHER EMBEDDED ITEMS NOTED IN THE PLANS.
11. PRECAST SUPPLIER TO DESIGN ALL PRECAST TO PRECAST CONNECTIONS.
12. PRECAST DESIGN TO INCLUDE VERIFICATION OF ALL OPENINGS AND MECHANICAL LOADS PER THE CONSTRUCTION DOCUMENTS.
13. VIBRATION CRITERIA SHALL CONFORM TO THE RECOMMENDATIONS FROM THE PRECAST AND PRESTRESSED CONCRETE INSTITUTE (PCI) DESIGN MANUAL, 6TH EDITION, OR OTHER APPLICABLE CODES.
14. CAMBER SHALL BE CONTROLLED AS TO PROVIDE NO DIFFERENTIAL CAMBER WHEN FINAL LOADING IS COMPLETE.
15. PRECAST SUPPLIER TO COORDINATE REQUIRED FIRE RATING w/ ARCHITECT PRIOR TO FABRICATION.
16. HOT DIP GALVANIZE ALL CONNECTOR ASSEMBLIES WHERE NOTED AS GALVANIZED. CLEAN AND COAT ALL FIELD WELDS w/ TWO COATS OF COLD GALVANIZED COMPOUND.

STRUCTURAL STEEL NOTES

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM WITH THE AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION.
2. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", LATEST EDITION.
3. FABRICATORS SHALL DESIGN CONNECTIONS NOT SPECIFICALLY DETAILED ON PLANS AS FOLLOWS:
   A. GENERAL: MEMBERS REQUIRING END MOMENT CONNECTIONS SHALL MEET THE REQUIREMENTS OF TYPE 1 "RIDGE FRAME" CONSTRUCTION INCLUDING FRICTION BOLTS IF UTILIZED. ALL OTHER MEMBERS SHALL FOLLOW THE REQUIREMENTS OF TYPE 2 "SIMPLE" CONSTRUCTION.
   B. MEMBER SHEAR CONNECTIONS: UNLESS A LARGER END VERTICAL REACTION IS SHOWN OTHERWISE ON THE DRAWINGS (IE R = 85k), MINIMUM DESIGN SHEAR FORCES SHALL BE AS FOLLOWS:
      I. NON-COMPOSITE BEAMS: SUPPORT A REACTION "R" EQUAL TO ONE HALF THE TOTAL UNIFORM LOAD CAPACITY FROM THE TABLE OF UNIFORM LOAD CONSTANTS IN THE AISC MANUAL PART 2 FOR GIVEN SHAPE, SPAN, AND GRADE OF STEEL.
4. USE A325N BOLTS UNLESS NOTED OTHERWISE.
5. SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE ENGINEER.
6. OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY THE ENGINEER.
7. BEAM AND GIRDER CONNECTIONS SHALL BE AS NOTED ON PLANS AND IN DETAILS.
8. PROVIDE HOLES IN ALL STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER DURING ERECTION. ALL PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 1 1/2" IN DIAMETER AND SHALL BE GROUND SMOOTH.
9. CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
10. PROVIDE ANY NECESSARY TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE BUILDING UNTIL PERMANENT FRAME IS COMPLETELY INSTALLED.
11. STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.
12. WORKMANSHIP AND TECHNIQUE FOR WELDING, INSPECTION OF WELDING, AND QUALIFICATIONS OF WELDING OPERATORS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS LISTED IN IBC SECTIONS 2205, 2206, 2207, 2209, AND 2210.

COLD-FORMED METAL FRAMING NOTES

***** NOTE TO CONTRACTOR *****
STUDS LISTED ARE MINIMUM SIZES AND ARE TO BE USED ONLY AS AN AID IN BIDDING. EXACT SIZES AND SPACINGS OF ALL COLD-FORMED METAL FRAMING SHALL BE DETERMINED BY THE COLD-FORMED FRAMING DESIGNER. SHOP DRAWINGS AND SUPPORTING CALCULATIONS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER IN THE STATE OF WISCONSIN. SEE COLD-FORMED METAL FRAMING NOTES FOR ADDITIONAL INFORMATION

1. THE COLD-FORMED METAL FRAMING SHALL BE COMPLETELY DESIGNED AND SUPPLIED BY THE CONTRACTOR FOR ALL GRAVITY, LATERAL, AND OTHER LOADS INDUCED BY THE BUILDING MATERIALS SHOWN ON THE PROJECT DRAWINGS, AND THE DESIGN LOADS APPLIED IN ACCORDANCE WITH THE BUILDING CODE LISTED IN THE DESIGN DATA.
2. MEMBER SECTION PROPERTIES AND ALLOWABLE STRESSES SHALL BE CALCULATED IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE A.I.S.I. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
3. SHOP DRAWINGS AND SUPPORTING CALCULATIONS FOR THE COLD-FORMED METAL FRAMING SYSTEM, INCLUDING ALL STUDS, JOISTS, HEADERS, JAMBS, SILLS, AND ASSOCIATED CONNECTION DETAISHALL BE SEALED & SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN.
4. HEADERS AND JAMBS AT OPENINGS MAY CONSIST OF BUILT-UP COLD-FORMED METAL SECTIONS OR HOT ROLLED STEEL SECTIONS (TUBES, ANGLES, ETC.) SOME CONDITIONS MAY NECESSITATE HOT-ROLLED STEEL SECTIONS, AND ARE TO BE SUPPLIED AND INSTALLED BY THE COLD-FORMED METAL CONTRACTOR.
5. MECHANICAL BRIDGING SHALL BE INSTALLED PRIOR TO THE ATTACHMENT OF FACING MATERIALS AND SHALL BE SECURED IN A MANNER TO PREVENT STUD ROTATION AND BE SPACED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. MAXIMUM SPACING SHALL BE 6'-0" ON CENTER FOR LATERALLY LOADED WALLS AND 4'-0" ON CENTER FOR AXIALLY LOADED WALLS.
6. PROVIDE WEB STIFFENERS AT HORIZONTAL AND VERTICAL REACTION POINTS.
7. PROVIDE ALL HORIZONTAL AND VERTICAL ATTACHMENT MECHANISMS WHERE REQUIRED.
8. PROVIDE JACK STUDS OR CRIPPLES BELOW WINDOW SILLS, AND ABOVE WINDOW AND DOOR HEADS. THESE SHALL BE SECURELY ATTACHED TO SUPPORTING MEMBERS.
9. ALL WELDING SHALL BE PERFORMED BY AWS D1.3 CERTIFIED WELDERS IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF AWS D1.3, "SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES."
10. TEMPORARY BRACING SHALL BE PROVIDED AND REMAIN IN PLACE UNTIL THE STRUCTURE IS COMPLETELY STABILIZED. PRIOR TO ATTACHMENT OF WALL SHEATHING, PROVIDE TEMPORAR'BRACING TO RESIST BUCKLING OF LOAD-BEARING STUDS, TEMPORARY X-BRACING TO RESIST LATERAL WIND AND SEISMIC LOADS AND ANY OTHER TEMPORARY BRACING DEEMED NECESSARY DURING CONSTRUCTION. TEMPORARY BRACING IS THE RESPONSIBILITY OF THE COLD-FORMED METAL INSTALLER.
11. ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IS UNACCEPTABLE.
12. STUDS SHALL NOT DEVIATE FROM PLUMB, LEVEL AND TRUE TO LINE OF 1/8" IN 10'-0" OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
13. MAXIMUM DEFLECTIONS FOR STUDS BACKING UP EXTERIOR BUILDING SKIN MATERIALS SHALL ILIMITED TO THE FOLLOWING:
    BRICK / STONE L/600
    EIFS / STUCCO L/360
    METAL PANELS / WOOD SIDING L/240
14. WALL STUDS WILL BE AT 16"OC UNO.

COLD-FORMED METAL MATERIAL NOTES

1. ALL COLD-FORMED METAL FRAMING SHALL CONFORM TO:
   PAINTED SECTIONS: 10, 12, 14 & 16 GA - A570 Fy=50,000 PSI
   PAINTED SECTIONS: 18 & 20 GA - A611 GD C Fy=33,000 PSI
   GALVANIZED SECTIONS: 10, 12, 14 & 16 GA - A446 GD D Fy=50,000 PSI
   GALVANIZED SECTIONS: 18 & 20 GA - A446 GD A Fy=33,000 PSI
2. REFER TO PLANS AND DETAILS FOR GAUGE AND SIZE REQUIREMENTS OF COLD-FORMED METAL FRAMING MEMBERS.
3. ALL FRAMING PRODUCTS SHALL BE FORMED FROM STEEL POSSESSING A COATING CORRESPONDING TO THE MINIMUM REQUIREMENTS OF ASTM C955.
4. ALL SIDE CLIPS, SUPPORT CLIPS, AND CLIP ANGLES ARE 50 ksi, UNLESS NOTED OTHERWISE.
5. NOMENCLATURE: CONFORMS TO SSMA STANDARDS, PRODUCT TECHNICAL INFORMATION, PAGE 5 (www.SSMA.com), FOR "GENERIC" FRAMING MANUFACTURER.
6. GALVANIZING: ALL FRAMING TO BE GALVANIZED, G60 COATING MINIMUM, UNLESS NOTED OTHERWISE.
7. SUGGESTED WELD METAL AND PROCESS FOR SHOP WELDING ARE: 60 ksi WELD MATERIAL STRENGTH (MINIMUM). SUGGESTED METHODS FOR FIELD WELDING: 1/8" UNLESS NOTED OTHERWISE, E60XX (MINIMUM) ELECTRODE-SMAW - OR "GASLESS" MIG. MINIMLWELD THROAT THICKNESS (t) MUST MATCH OR EXCEED THE BASE STEEL THICKNESS OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE.
8. ZINC RICH PAINT: FOR WELD TOUCH-UP USE PAINT 20 TYPE II ORGANIC ZINC RICH.
9. FASTENERS: SHALL BE CORROSION-RESISTANT CADMIUM OR ZINC PLATED SCREWS, NUTS, BOLTS, WASHERS AND OTHER FASTENERS.
10. UNLESS NOTED OTHERWISE, REFER TO LITERATURE PUBLISHED BY HILTI FASTENING SYSTEMS, INC. FOR EXPANSION BOLT, OR POWDER ACTUATED FASTENER (P.A.F.) INFORMATION, AND ITW BUILDEX, INC. FOR TEKS SCREW DATA. ALTERNATE MANUFACTURER'S FASTENERS OF COMPARABLE SPECIFICATIONS AND LOAD CAPACITIES ARE ACCEPTABLE WITH APPROVAL. ALL FASTENER'S SUBJECT TO TENSION SHALL HAVE 15MM (MINIMUM) DIAMETER STEEL WASHERS.
11. ALL CONCRETE SCREW FASTENERS SHALL BE THOSE AS MANUFACTURED AND TESTED BY TAPCON CONCRETE ANCHORS OR APPROVED EQUAL, OR AS INDICATED ON THE DRAWINGS.

COLD-FORMED METAL PRODUCT IDENTIFICATION

PRODUCT GEOMETRIES MUST MEET OR EXCEED THE MINIMUM PROPOSED BY THE STEEL STUD MANUFACTURERS ASSOCIATION FOR INDUSTRY STANDARDIZATION. FOR SSMA DESIGNATIONS SEETABLES BELOW.

MEMBER SECTION TABLE

SECTION	SSMA IDENTIFICATION	FLANGE WIDTH
S-SECTIONS (STUDS)	S137	1 3/8"
	S162	1 5/8"
	S200	2"
	S250	2 1/2"
T-SECTIONS (TRACKS)	T125	1 1/4"
	T200	2"

MEMBER THICKNESS TABLE

MILS	GAUGE	MINIMUM DELIVERED THICKNESS	DESIGN THICKNESS
33	20	0.0329"	0.0346"
43	18	0.0428"	0.0451"
54	16	0.0538"	0.0566"
68	14	0.0677"	0.0713"
97	12	0.0966"	0.1017"
118	10	0.1180"	0.1242"

MEMBER DEPTH (WEB SIZE) TABLE

SSMA IDENTIFICATION	MEMBER DEPTH
600	6"
362	3 5/8"
800	8"
1000	10"

SSMA PRODUCT IDENTIFICATION
800S162-43 (50ksi)
DEPTH
SHAPE
FLANGE WIDTH
MIL THICKNESS
YIELD STRENGTH (IF GREATER THAN 33ksi)

STRUCTURAL STEEL NOTES

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM WITH THE AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION.
2. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", LATEST EDITION.
3. FABRICATORS SHALL DESIGN CONNECTIONS NOT SPECIFICALLY DETAILED ON PLANS AS FOLLOWS:
   A. GENERAL: MEMBERS REQUIRING END MOMENT CONNECTIONS SHALL MEET THE REQUIREMENTS OF TYPE 1 "RIGID FRAME" CONSTRUCTION INCLUDING FRICTION BOLTS IF UTILIZED. ALL OTHER MEMBERS SHALL FOLLOW THE REQUIREMENTS OF TYPE 2 "SIMPLE" CONSTRUCTION.
   B. MEMBER SHEAR CONNECTIONS: UNLESS A LARGER END VERTICAL REACTION IS SHOWN OTHERWISE ON THE DRAWINGS (IE R = 85k), MINIMUM DESIGN SHEAIFORCES SHALL BE AS FOLLOWS:
      I. NON-COMPOSITE BEAMS: SUPPORT A REACTION "R" EQUAL TO ONE HALF THE TOTAL UNIFORM LOAD CAPACITY FROM THE TABLE OF UNIFORM LOAD CONSTANTS IN THE AISC MANUAL PART 2 FOR GIVEN SHAPE, SPAN, AND GRADE OF STEEL.
4. USE A325N BOLTS UNLESS NOTED OTHERWISE.
5. SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE ENGINEER.
6. OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY THE ENGINEER.
7. BEAM AND GIRDER CONNECTIONS SHALL BE AS NOTED ON PLANS AND IN DETAILS.
8. PROVIDE HOLES IN ALL STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER DURING ERECTION. ALL PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 1 1/2" IN DIAMETER AND SHALL BE GROUND SMOOTH.
9. CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
10. PROVIDE ANY NECESSARY TEMPORARY BRACING TO PROVIDE LATERAL SUPPORT OF THE BUILDING UNTIL PERMANENT FRAME IS COMPLETELY INSTALLED.
11. STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.

STEEL JOIST NOTES

1. DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL JOIST INSTITUTE SPECIFICATIONS.
2. MANUFACTURER SHALL BE SJI APPROVED FOR THE TYPE OF JOIST BEING USED.
3. WHERE JOISTS ARE DESIGNATED BY DEPTH, SERIES AND TOTAL LOAD/LIVE LOAD, FINAL DESIGN SHALL BE PER INDICATED LOADS PLUS SELF WEIGHT OF JOIST AND IS THE RESPONSIBILITY OF THE JOIST SUPPLIER.
4. WHERE JOISTS ARE DESIGNATED AS "SP", FINAL DESIGN SHALL BE PER LOADING DIAGRAM(S) PLUS SELF WEIGHT OF JOIST AND IS THE RESPONSIBILITY OF THE JOIST SUPPLIER.
5. PROVIDE SJI STANDARD BRIDGING AND AS READ BY DESIGN OR OSHA REQUIREMENTS.
6. NO FIELD DRILLED HOLES OR CUTS ARE PERMITTED IN JOIST MEMBERS.
7. ALL CONCENTRATED LOADS SHALL BE APPLIED AT A JOIST PANEL POINT UNLESS THE CHORDS ARE SPECIFICALLY DESIGNED FOR CONCENTRATED LOADS. SUPPLEMENTAL FRAMING AND JOIST REINFORCING SHALL BE PROVIDED BY THE CONTRACTOR RESPONSIBLE FOR THE CONCENTRATED LOADS.
8. WHERE JOISTS ARE SUPPORTED ON ONLY ONE SIDE OF A BEAM, THE JOISTS SHALL EXTEND A MINIMUM OF 1" BEYOND BEAM CENTERLINE.
9. JOISTS SHALL BE DESIGNED FOR L/360 LIVE LOAD DEFLECTION UNLESS NOTED OTHERWISE.
10. FIELD WELD JOISTS TO WALL ANGLES, BEARING PLATES AND SUPPORTING STEEL BEAMS WITH AT LEAST TWO 3/16" x 2" LONG FILLET WELDS.
11. JOISTS AND SEAT CONNECTIONS SHALL BE DESIGNED TO RESIST AXIAL LOADS INDICATED OR RESIST A HORIZONTAL FORCE ACTING PARALLEL TO THE JOIST, NOT LESS THAN 5% OF THE DEAD+LIVE LOAD REACTION (ASCE 7-05 11.7.3) WHICHEVER IS GREATER.

STEEL DECK NOTES

1. DECK, ACCESSORIES AND ATTACHMENTS SHALL CONFORM TO "STEEL DECK INSTITUTE SPECIFICATIONS", LATEST EDITION.
2. SEE PLANS FOR DECK TO STRUCTURE CONNECTIONS.
3. STEEL DECK SHALL BE PLACED SUCH THAT EACH SHEET IS IN A TWO SPAN CONDITION (UNLESS NOTED OTHERWISE ON PLANS).
4. PROVIDE METAL CLOSURE STRIPS FOR CELL RACEWAYS AND OPENINGS BETWEEN DECKING AND OTHER CONSTRUCTION OF 18 GA. SHEET STEEL. FORM TO PROVIDE TIGHT FITTING CLOSURES AT OPEN ENDS OF CELLS, FLUTES AND SIDES OF DECKING.
5. FOR POUR STOPS, REFER TO SDI STANDARD SELECTION TABLE UNLESS OTHERWISE DETAILED.
6. PAINTED SURFACES OF DECK DAMAGED AS A RESULT OF HANDLING, SHIPPING, OR INSTALLATION SHALL BE CLEANED AND REPAIRED WITH AN APPROVED REPAIR PAINT IN ACCORDANCE WITH THE STEEL DECK SPECIFICATIONS.
7. ANCHOR ROOF DECK w/ 5/8"Ø PUDDLE WELDS IN 36/4 PATTERN @ INTERMEDIATE SUPPORTS AND 36/7 PATTERN @ SHEET ENDS. PROVIDE #10 TEK SCREW @ 18"OC MAX @ SIDE LAPS.

STRUCTURAL ABBREVIATIONS

ABBRV.	WORD OR PHRASE	ABBRV.	
@	AT	LL	LIVE LOAD
&	AND	LLH	LONG LEG HORIZONTAL
AB	ANCHOR BOLT	LLV	LONG LEG VERTICAL
ALT	ALTERNATE	LSL	LAMINATED STRAND LUMBER
APA	AMERICAN PLYWOOD ASSOC.	LVL	LAMINATED VENEER LUMBER
ARCH	ARCHITECT(URAL)	LW	LONG WAY
BC	BOTTOM CHORD	MFR	MANUFACTURER
BLDG	BUILDING	MAX	MAXIMUM
BLKG	BLOCKING	MECH	MECHANICAL
BM	BEAM	MIN	MINIMUM
BOT	BOTTOM	MISC	MISCELLANEOUS
BRG	BEARING	NIC	NOT IN CONTRACT
℄	CENTERLINE	NTS	NOT TO SCALE
CB	COLUMN BASE	OC	ON CENTER
CIP	CAST-IN-PLACE	O.F.	OUTSIDE FACE
CL	CENTERLINE	OPP	OPPOSITE
CLR	CLEAR	PARA	PARALLEL
CJ	CONTROL OR CONSTRUCTION JOINT	P/C	PRECAST CONCRETE
CMU	CONCRETE MASONRY UNIT	PCF	POUNDS PER CUBIC FOOT
COL	COLUMN	PERP	PERPENDICULAR
CONC	CONCRETE	℘	STEEL PLATE
CONT	CONTINUOUS	PLY	PLYWOOD
DBA	DEFORMED BAR ANCHOR	PSI	POUNDS PER SQUARE INCH
DEFL	DEFLECTION	PSF	POUNDS PER SQUARE FOOT
DEMO	DEMOLITION	PSL	PARALLEL STRAND LUMBER
DFL	DOUGLAS FIR LARCH	P/T	POST TENSIONED CONCRETE
DIA (Ø)	DIAMETER	PT	PRESSURE TREATED
DIM	DIMENSION	REINF	REINFORCEMENT
DL	DEAD LOAD	REQD	REQUIRED
DTL	DETAIL	RTU	ROOF TOP UNIT
DWL	DOWEL	SCHD	SCHEDULE
DWG	DRAWING	SHT	SHEET
EA	EACH	SIM	SIMILAR
EF	EACH FACE	SMS	SHEET METAL SCREWS
EJ	EXPANSION JOINT	SOG	SLAB ON GRADE
EL	ELEVATION	SPEC	SPECIFICATION
EMBED	EMBEDMENT	SPF	SPRUCE-PINE-FIR
EOD	EDGE OF DECK/SLAB	SQ	SQUARE
EOS	EDGE OF STEEL	SS	STAINLESS STEEL
EQ	EQUAL	STL	STEEL
EW	EACH WAY	STR	STRUCTURAL
EXIST	EXISTING	SW	SHORT WAY
EXP	EXPANSION	SYM	SYMMETRICAL
EXT	EXTERIOR	SYP	SOUTHERN YELLOW PINE
FD	FLOOR DRAIN	T&B	TOP AND BOTTOM
FND	FOUNDATION	TC	TOP CHORD
FF	FINISH FLOOR	T&G	TONGUE AND GROOVE
FIN	FINISH	TF	TOP OF FOOTING ELEVATION
FLR	FLOOR	TL	TOP OF LEDGE ELEVATION
FRMG	FRAMING	TOC	TOP OF CONCRETE ELEVATION
FTG	FOOTING	TOSL	TOP OF SLAB ELEVATION
GA	GAGE	TOS	TOP OF STEEL ELEVATION
GALV.	GALVANIZED	TP	TOP OF PIER ELEVATION
GB	GRADE BEAM	T/PC	TOP OF PILE CAP
GC	GENERAL CONTRACTOR	TRANS	TRANSVERSE
GT	GIRDER TRUSS	TS	TUBE STEEL
GYP	GYPSUM	TW	TOP OF WALL ELEVATION
HORIZ	HORIZONTAL	TYP	TYPICAL
HIF	HORIZONTAL INSIDE FACE	UNO	UNLESS NOTED OTHERWISE
HOF	HORIZONTAL OUTSIDE FACE	VERT	VERTICAL
HSS	HOLLOW STRUCTURAL SECTION	VIF	VERTICAL INSIDE FACE
HT	HEIGHT	VOF	VERTICAL OUTSIDE FACE
HVAC	HEATING, VENTILATING & AIR COND.	w/	WITH
HWS	HEADED WELD STUD	WF	WIDE FLANGE
I.F.	INSIDE FACE	w/o	WITHOUT
INFO	INFORMATION	WP	WORKPOINT
JST	JOIST	WT	WEIGHT
KSI	KIPS PER SQUARE INCH	WWF	WELDED WIRE FABRIC
L	ANGLE	SLRS	SEISMIC LOAD RESISTING SYSTEM
		SMF	SPECIAL MOMENT FRAME
		SCBF	SPECIAL CONCENTRIC BRACED FRAME

ROOF JOIST DESIGN LOADS

1. ALL ROOF JOISTS SHALL BE BRIDGED FOR 12 psf NET WIND UPLIFT.
2. JOISTS DESIGNATED w/ "SP" SHALL BE DESIGNED FOR THE FOLLOWING UNIFORM SERVICE LOADS MULTIPLIED BY THE TRIBUTARY AREA OF THE JOIST OR JOIST GIRDER.
3. IN ADDITION TO THESE LOADS, JOISTS SHALL BE DESIGNED FOR ADDITIONAL UNIFORM, TAPERED, LINE AND CONCENTRATED LOADS AS INDICATED ON JOIST FRAMING PLANS AND SNOW DRIFT PLAN.
4. THE ROOF HAS BEEN DESIGNED TO SUPPORT A NON-BALLASTED MEMBRANE. A COLLATERAL LOAD OF 3psf IS USED.

ROOF FRAMING NOTES

1. BEAMS / JOISTS HAS BEEN SELECTED BASED UPON THE FOLLOWING LOADS:
   TOTAL DEAD LOAD = 25 psf
   ROOFING IS BALLASTED MEMBRANE AT 12psf BALLAST WEIGHT.
   ALLOWABLE FOR COLLATERAL = 5 psf
   FLAT ROOF SNOW LOAD = 25 psf PLUS DRIFT WHERE APPLICABLE
2. REFER TO PLAN FOR TOP OF STEEL ELEVATION, REFERENCED FROM FIRST FLOOR SLAB ELEVATION OF 100'-0". DEVIATIONS FROM TYPICAL TOP OF STEEL ELEVATION ARE DENOTED THUS (+/- X").
3. REFER TO PLANS FOR DECK TYPES.
4. JOIST MANUFACTURER SHALL VERIFY JOISTS PROVIDED ARE ADEQUATE FOR NET UPLIFT = 12PSF
5. JOIST BRIDGING, WHERE SHOWN, IS A SCHEMATIC REPRESENTATION FOR GENERAL INFORMATIONAL PURPOSES ONLY. JOIST SUPPLIER SHALL BE RESPONSIBLE FOR PROVIDING BRIDGING WHICH COMPLIES WITH SJI REQUIREMENTS, INCLUDING LOCATION SIZE AND CONFIGURATION, EXCEPT WHERE SPECIAL REQUIREMENTS ARE SPECIFICALLY NOTED. SUPPLIER SHALL GIVE DUE CONSIDERATION TO THE RELATIVE STIFFNESS OF JOISTS AND ADJACENT STRUCTURAL ELEMENTS.
6. ROOF DECK SHALL INSTALLED SUCH THAT IT IS CONTINUOUS OVER A MINIMUM OF THREE SPANS. SHEET END AND SHEET TO STRUCTURE FASTENERS SHALL BE WELDED USING 5/8"Ø PUDDLE WELDS. SIDELAP FASTENERS SHALL BE #10 HEX HEAD SCREWS. AS A MINIMUM USE 36/7 PATTERN WITH 4 SIDELAP FASTENERS. PERIMETER FASTENING SHALL CORRESPOND TO INTERIOR FASTENING AS A MINIMUM. PARTIAL PANELS SHALL BE WELDED IN EVERY VALLEY.
6. SEE 2/S400 FOR DECK SUPPORT FRAMING AT RTU OPENINGS, ROOF HATCH, AND EXHAUST FANS WEIGHING LESS THAN 250 LBS. PROVIDE SIMILAR FRAMING AT ROOF DRAINS, AND ALL DECK PENETRATIONS GREATER THAN 12" (SEE ARCH. AND MECH. DWGS.) STEEL FABRICATOR SHALL COORDINATE UNIT LOCATIONS AND OPENINGS WITH MECHANICAL CONTRACTOR. MINIMUM ANGLE SIZE FOR FRAMES - L4x4x5/16.
7. REINFORCE JOISTS AS SHOWN IN 1/S400 WHERE CONCENTRATED LOADS DO NOT OCCUR AT A PANEL POINT.
8. (■) DENOTES BRACE FROM BOTTOM FLANGE OF BEAM TO TOP CHORD PANEL POINT OR TOP CHORD OF ADJACENT JOIST AS APPLICABLE.
9. STRUCTURAL STEEL/JOIST FRAMING NOT DIMENSIONS ON PLAN SHALL BE SPACED EQUALLY BETWEEN DIMENSIONED MEMBERS.
10. BEAM CONNECTIONS SHALL BE DETAILED WHERE INDICATED ON THE CONSTRUCTION DOCUMENTS. WHERE CONNECTIONS ARE NOT DETAILED, THE FABRICATOR IS ALLOWED TO DETAIL THE CONNECTIONS BASED ON THE BEAM REACTIONS SHOWN AND THE FOLLOWING:
    A. ALL REACTIONS ARE SERVICE-LOAD LEVEL
    B. ASD SELECTION OF THE CONNECTION MATERIALS
    C. USE OF DETAIL 1/S601 AS A GUIDE FOR CONNECTION SELECTION
11. LATERAL STABILITY IS PROVIDED BY DIAGONAL BRACING.
12. SEE ARCHITECTURAL DRAWINGS FOR OVERALL DIMENSIONAL PLANS.
13. NO PROVISIONS HAVE BEEN MADE FOR FUTURE EXPANSION IN THE DESIGN OF THE FRAMING.
14. ANY HOLES FIELD CUT INTO STEEL MUST BE VERIFIED w/STRUCTURAL ENGINEER PRIOR TO WORK.

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PE PROJECT 13642

PROJECT
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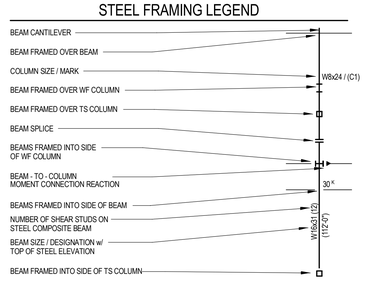
BID NO.
313083

DRAWING
STRUCTURAL NOTES & SCHEDULES

DATE
01.12.15

S000

STEEL FRAMING LEGEND



LOOSE STEEL LINTEL SCHEDULE

PROVIDE WHERE OTHER LINTELS ARE NOT SPECIFICALLY DETAILED

WALL THK	CLEAR MASONRY OPENING WIDTH	SECTION	WALL THK	CLEAR MASONRY OPENING WIDTH	SECTION
ALL	AT FIRE EXTINGUISHER CABINETS AND DRINKING FOUNTAINS		8"	TO 5'-0"	2 - L3 ½"x3 ½"x¼"
4"	TO 5'-0"	ST 3 x 6.25 3/16" 1 1/2"-8"	8"	TO 7'-0"	2 - L4"x3 ½"x⅝" (LLV)
			8"	TO 9'-0"	WT 7 x 15
4"	TO 7'-0"	⅜" x 4 ½" PLATE ON ⅜" x 3 ½" PLATE	10"	TO 7'-0"	W 8 x 10 w/ ⅝" x 9" PLATE 3/16" 1 1/2"-8"
4"	TO 9'-0"	⅜" x 7 ½" PLATE ON ⅜" x 3 ½" PLATE			
6"	TO 5'-0"	2 - L3 ½"x2 ½"x¼" (LLV)	10"	TO 10'-0"	W 8 x 15 w/ ⅝" x 9" PLATE
6"	TO 7'-0"	WT 4 x 10.5	12"	TO 5'-0"	3 - L3 ½"x3 ½"x¼"
6"	TO 9'-0"	WT 7 x 11	12"	TO 7'-0"	W 8 x 10 w/ ⅝" x 11" PLATE 3/16" 1 1/2"-8"
6"	TO 12'-0"	WT 7 x 13 w/ ½" x 2" PLATE 3/16" 1 1/2"-8"			
			12"	TO 10'-0"	W 8 x 15 w/ ⅝" x 11" PLATE

LOOSE STEEL LINTEL SCHEDULE NOTES:
1. PROVIDE MINIMUM 8" BEARING AT EACH END OF LINTEL.
2. GROUT BLOCK CORES SOLID MINIMUM 3 COURSES BELOW LINTEL BEARING.
3. CENTER LINTELS IN WALL UNLESS NOTED OTHERWISE.
4. BOTTOM PLATES UNDER WIDE FLANGE SHAPES SHALL BE EXTENDED FULL LENGTH OF LINTEL.
5. WELD LINTEL COMPONENTS INTO SINGLE UNIT.
6. NO LINTELS ARE REQUIRED FOR 4" AND 6" NON-BEARING MASONRY WALLS WHERE GROUTED HOLLOW METAL FRAMES HAVE A HEADSPAN OF 4'-0" OR LESS.

LINTEL SCHEDULE

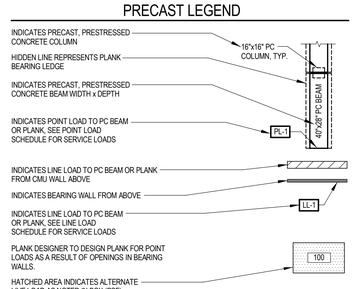
WALL THK	WALL CONSTRUCTION	LINTEL SIZE	DETAIL
L1	6" CMU	2 - L3 1/2 x 2 1/2 x 1/4 (LLV)	
L2	8" CMU + 2" AIR SPACE + 4" CMU VENEER = 1' - 2"	IN 8" CMU: WT7x15 IN 4" CMU: L4 x 3 1/2 x 5/16 (LLV) BOTTOM PLATE: 5/16" x 1' - 1"	
L3	12" CMU	12" x 16" DEEP GROUTED BOND BEAM w/ 2 - #5 BOTTOM	16 #5

LINTEL SCHEDULE NOTE:
1. 8" BEARING EACH END.

LOOSE BRICK LINTEL SCHEDULE

SIZE	WALL TYPE	L = SPAN	REMARKS
L4x4x1/4"	4" BRICK	0 < L ≤ 7'-4"	
L4x4x1/4"	4" BRICK	7'-4" < L ≤ 10'-8"	
L6x4x3/4"	4" BRICK	10'-8" < L ≤ 14'-4"	

PRECAST LEGEND

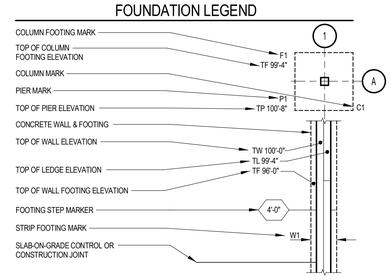


PRECAST PLANK SCHEDULE

MARK	PLANK DEPTH	BONDED TOPPING w/ 6x6 - W2.9xW2.9 REINFORCING	LOAD INFORMATION		FIRE RATING	REMARKS
			DL (psf) (NOTE 4)	LL (psf)		
PC-1	10"	2" MINIMUM	SELF WT + 10	75psf DOWNLOAD, 80psf GROSS UPLIFT	1 HR	

PRECAST PLANK SCHEDULE NOTES:
1. TOPPING THICKNESS LISTED IS MINIMUM THICKNESS AT MID-SPAN OF PLANK.
2. AT CONTRACTOR'S OPTION AND ENGINEER'S APPROVAL, A BLEND OF STEEL & SYNTHETIC MACRO FIBERS MAY BE ADDED TO THE CONCRETE MIX IN LIEU OF WWF. PRECAST SUPPLIER TO VERIFY.
3. UNDER TO CIRCUMSTANCES SHALL SHORT OR LONG-TERM CAMBER EXCEED 2".
4. TOPPING WEIGHT SHALL BE INCLUDED IN SELF WEIGHT.
5. PLANK SIZES TO BE VERIFIED BY PRECAST SUPPLIER.
6. VERIFY FIRE RATING REQUIREMENTS w/ ARCHITECTURAL DRAWINGS.
7. GROUT PLANK KEYWAYS IN ACCORDANCE w/ MANUFACTURER'S RECOMMENDATIONS.
8. REFER TO S000 FOR SPECIAL LOADING @ 911 CENTER.
9. VERIFY AND COORDINATE REQUIRED OPENINGS w/ MECH DWGs & CONTRACTOR
10. DESIGN AND PROVIDE STEEL HEADERS FOR SUCH OPENINGS.

FOUNDATION LEGEND



FOOTING SCHEDULE

MARK	WIDTH	LENGTH	DEPTH	REINFORCEMENT	REMARKS
F30	3' - 0"	3' - 0"	1' - 0"	4 - #5 EACH WAY BOTTOM	
F35	3' - 6"	3' - 6"	1' - 0"	4 - #5 EACH WAY BOTTOM	
F40	4' - 0"	4' - 0"	1' - 0"	4 - #5 EACH WAY BOTTOM	
F60A	6' - 0"	6' - 0"	2' - 0"	8 - #6 EACH WAY BOTTOM	
F70A	7' - 0"	7' - 0"	2' - 0"	10 - #7 EACH WAY BOTTOM	
F96	9' - 0"	6' - 0"	2' - 0"	6 - #6 LW BOTTOM, 9 - #6 SW BOTTOM	

W14	1' - 4"	CONT	1' - 0"	NONE	
W20	2' - 0"	CONT	1' - 0"	NONE	
W26	2' - 6"	CONT	1' - 0"	NONE	

FOOTING SCHEDULE NOTES:
1. LW = LONG WAY
   SW = SHORT WAY
   EW = EACH WAY
   T = TOP
   B = BOTTOM
   CONT = CONTINUOUS

CONCRETE PIER SCHEDULE

MARK	SIZE	REINFORCEMENT	REMARKS
P1	18"x18"	8 - #5 VERTICAL w/ STD HOOK w/ #3 TIES @ 10" OC	
P2	24"x24"	8 - #6 VERTICAL w/ STD HOOK w/ #3 TIES @ 10" OC	

COLUMN SCHEDULE

MARK	SIZE	REMARKS
C1	HSS6x5x3/8	
C2	HSS6x5x1/4	
C3	HSS6x5x1/2	UP TO MONITOR ROOF
C4	HSS6x5x3/8	ABOVE MAIN ROOF LEVEL
C5	HSS10x10x1/2	TOP ELEVATION OF CAPPED TOP OF COLUMN IS 117'-8 3/4"
C6	HSS6x5x1/2	
C7	HSS12x6x1/2	CANOPY COLUMN
C8	HSS6x5x1/2	CANOPY COLUMN
C9	HSS6x6x3/8	12"x12"x1 1/4" BASEPLATE w/ 4- 3/4"Ø ANCHOR BOLTS

COLUMN SCHEDULE NOTES:
1. SEE DETAILS ON S300 FOR BASEPLATE INFORMATION.

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3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
STRUCTURAL SCHEDULES

DATE
01.12.15

S001

NOTES FOR FOUNDATION OF PRE-ENGINEERED METAL BUILDING AT GARAGE

1. BASE PLATE AND ANCHORS SIZES / QUANTITIES WILL NOT BE AVAILABLE UNTIL A SUPPLIER IS CHOSEN FOR THE METAL BUILDING.
2. FOR BID PURPOSES, THE ANCHOR BOLTS SHALL BE BID AS (4) ±1'0" x 2'-0" LONG w/ NUTS AND WASHERS FOR EACH COLUMN. THE EMBEDDED END OF THE ANCHOR BOLT SHALL BE HOOKED 3".
3. PIER SIZES AND REINFORCING IS DETAILED FOR BID PURPOSES. THESE WILL BE CONFIRMED OR CORRECTED WHEN A METAL BUILDING SUPPLIER IS CHOSEN.
4. FRAME OUT OPENING IN WALL FOR LOUVERS. SEE ARCH DRAWINGS FOR LOCATIONS.

4" CONCRETE SLAB ON GRADE SET ON 10 mil VAPOR RETARDER ON 6" GRANULAR FILL w/ LESS THAN 7% PASSING #200 SLEEVE. PLACE CONTROL JOINTS @ MAX SPACING 12'-0" - 15'-0". SLAB ON GRADE IS REINFORCED w/ 6x6 - 10/10 WWF. NOMINAL TOP OF SLAB EL = 100'-0"

4" CONCRETE SLAB ON GRADE SET ON 10 mil VAPOR RETARDER ON 6" GRANULAR FILL w/ LESS THAN 7% PASSING #200 SLEEVE. PLACE CONTROL JOINTS @ MAX SPACING 12'-0" - 15'-0". SLAB ON | GRADE IS REINFORCED w/ 6x6 - 10/10 WWF. NOMINAL TOP OF SLAB EL = 100'-0"

6" CONCRETE SLAB ON GRADE AT GARAGE SET ON 10 mil VAPOR RETARDER ON 6" GRANULAR FILL w/ LESS THAN 7% PASSING #200 SLEEVE. SEE PLAN FOR SUGGESTED CONTROL / CONSTRUCTION JOINT LOCATIONS. SLAB ON GRADE IS REINFORCED w/ 6x6 - 6/6 WWF. SLOPE TO DRAINS AS SHOWN ON ARCH DRAWINGS. NOMINAL TOP OF SLAB EL = 100'-0"

OUTLINE OF RAISED VIEWING PLATFORM

HOLES IN VIEWING FLOOR

@ DROPPED FOOTINGS

TYP @ MAIN FRAME COLUMN

TYP @ GARAGE DOOR

NON-EXPANDABLE END WALL

FOUNDATION PLAN KEYED NOTES

MARK	DESCRIPTION
1	4" CONCRETE TOPPING SLAB REINFORCED w/ 6x6 - 10/10 WWF ON 4" RIGID INSULATION. TOP OF TOPPING SLAB ELEVATION = 100' - 0". 4" CONCRETE SLAB ON GRADE IS DROPPED 8" AT THIS LOCATION.
2	#5 HAIRPIN INTO SLAB (6'-0", 6'-0", 30.00°)
3	PROVIDE JOINT IN CONCRETE FLOORS PER 6/Q821
4	PLACE INSULATION ON INSIDE SURFACE OF OF FOUNDATION WALL PER Q DRAWINGS.
5	AT TISSUE STORAGE, SLAB ON GRADE WILL BE 6" THICK w/ #4 @ 18"OC REBAR EACH WAY CHAIRED 3" OFF OF SUB-GRADE. PROVIDE 7" WIDE BLOCK OUTS FOR TRACKS FOR ROLLING SHELVING UNITS. SEE 24/S300.
6	RECESS SLAB 5" FOR BODY SCALE. REFER TO ARCHITECTURAL FOR EXACT LOCATION.
(7)	6" THICK CONCRETE HOUSEKEEPING PAD w/ 6x6 - 10/10 WWF FOR AUTOPSY CASEWORK AND LOCKER TYPES 1 & 2, VERIFY LOCATIONS w/ SUPPLIER.
8	12" CMU WALL (f'm = 2000 psi) w/ #5 @ 16"OC (CENTERED) TYPICAL @ EF3 RATED AREA @ 911 CENTER.
9	16" x 24" MASONRY PILASTER ABOVE w/ 1- #5 VERTICAL EACH CELL & #2 TIES @ 8"OC VERTICAL LOCATED IN JOINTS. SEE 23/S300 FOR CONCRETE PIER BELOW GRADE. TOP OF CONCRETE PIER EL = 100' - 0". (NO CONCRETE PIER AT SIM)
10	8" CMU WALL (f'm = 2000 psi) w/ #5 @ 40"OC (CENTERED).
11	PROVIDE 1- #5 (CENTERED) EACH CELL FOR 2- CELLS UP TO BEAM BEARING ABOVE.

MARK	DESCRIPTION
12	PROVIDE 8 - #4 x 12'-0" LONG REBAR IN A GRID @ 12"OC EACH WAY WHERE THE RADIANT TUBING CONVERGES. THIS REBAR IS SUPPLIED AND PLACED BY GC.
13	DROP FOOTINGS FOR STORM DRAIN. INVERT ELEVATION = 96'-0".
14	TRENCH DRAIN LOCATION, REFER TO SHEET P200 FOR LOCATIONS & SHEET P400 FOR DETAIL @ DRAIN.
15	THIS COLUMN ON GRID 2.5
16	THIS COLUMN ON GRID 2.6
17	THIS COLUMN ON GRID AA
18	THIS COLUMN ON GRID A
19	THIS COLUMN ON GRID 5.9
20	THIS COLUMN ON GRID 6
21	PLACE CONCRETE SLAB ON 2" RIGID INSULATION AT COOLER ROOM. SEE ARCH DRAWINGS.

1/S100 FOUNDATION PLAN

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

NOTES:
1. SEE SHEET S001 FOR ALL STRUCTURAL NOTES & SCHEDULES.
2. SEE SHEET S300 FOR TYPICAL FOUNDATION DETAILS NOT NECESSARILY CUT ON PLAN.
3. THE SLAB ON GRADE AND STOOPS WILL CONTAIN RADIANT HEAT TUBES AND UNDER SLAB INSULATION WHERE SHOWN ON MECHANICAL DRAWINGS. REFER TO SHEET M301 FOR LOCATION AND TO DETAIL 5/M600 FOR DETAILS OF CONSTRUCTION. SUPPLY WIRE MESH IN SHEETS, NOT ROLLS TO PROVIDE ACCURATE PLACEMENT OF RADIANT TUBING. CONTROL JOINT DEPTH 1 1/4" TO MISS RADIANT TUBING.

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BID NO.
313083

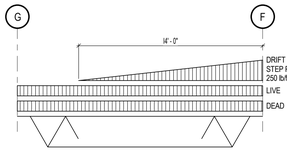
DRAWING
FOUNDATION PLAN

DATE
01.12.15

NOTES FOR FRAMING OF PRE-ENGINEERED METAL BUILDING GARAGE

1. USE 5psf COLLATERAL LOADING TO PURLINS AND MAIN FRAMES.
2. END WALL FRAME IS NOT EXPANDABLE.
3. THERE IS AN EXPANSION JOINT ALONG GRID 9 BETWEEN THE METAL BUILDING AND THE MAIN BUILDING. METAL BUILDING CONSTRUCTION WILL NOT RELY ON CMU WALL FOR VERTICAL OR LATERAL SUPPORT.

SPECIAL JOIST NOTES:
1. LIVE LOAD DEFLECTION INDEX L/360.
2. CHECK FOR 12 psf NET UPLIFT.
3. ALL LOADS ARE WORKING.



2 S200 SPECIAL JOISTS
SCALE: NTS

ROOF FRAMING PLAN KEYED NOTES

MARK	DESCRIPTION
(1)	PROVIDE HSS4x6x1/4 OUTRIGGERS ON A DIAGONAL OFF BUILDING COLUMN FOR OUTBOARD WINDOW SUPPORT.
(2)	BEAM COPED FOR 2 1/2" DEEP BEARING SEAT. SEE DETAIL 10/S400.
(3)	ROOF SCREEN, SEE 1/S402, 2/S402, 3/S402 & 4/S402 FOR FRAMING.
(4)	CONCRETE TOPPING ON TYPICAL METAL ROOF DECK FLOORING SYSTEM. CONCRETE SLAB SHALL BE 4" TOTAL THICKNESS (2 1/2" OVER THE DECK). REINFORCE SLAB w/ 6x6 - 6/6. TOP OF SLAB ELEVATION = 116'-4". ROOF DECK REMAINS WIDE FLANGE DOWN.
(5)	SEE 11/S400 FOR WINDOW BUMPOUT FRAMING.
(6)	1 1/2" x 18 GA GALVANIZED WIDE RIB METAL DECK @ CANOPIES. TOP OF DECK IS DROPPED TO BE 1/2" BELOW THE TOP OF TUBE SUPPORTS, TYP. THIS IS TO ALLOW THE 1/2" PLYWOOD TO FLUSH OUT WITH THE TUBE SUPPORTS.
(7)	STEEL BEAM FRAMES INTO SIDE OF CONCRETE SHELTER PER DETAIL 1/S401.
(8)	CONCRETE CAP OF SHELTER CONSTRUCTION. SEE DETAIL 8/S301.
(9)	4" TOTAL THICKNESS CONC. SLAB ON 1 1/2"x22 GA GALV. METAL FORMED DECK. REINFORCED w/ 6x6-6/6 WWF. TSLAB ELEVATION = 110'-4". SUPPORT FOR AHU UNIT. NOT SIZED FOR STORAGE SUPPORT. SLAB ON 800J200-97 @ 24"OC COLD-FORMED JOISTS. BRIDGE @ MIDSPAN.
(10)	8" CMU BELOW.
(11)	W10X26 TROLLEY SUPPORT BEAM. TROLLEY BEAM AND SUPPORTS BY METAL BUILDING SUPPLIER. DESIGN LIFT CAPACITY IS 2000# w/o IMPACT. THE TROLLEY SUPPORT BEAM SHALL BE SUPPORTED VERTICALLY AND LATERALLY ON BOTH AXIS AT THE MAIN FRAME SUPPORTS. PROVIDE L3x3x1/4 EACH END TO SERVE AS TROLLEY STOPS. BOTTOM OF TROLLEY BEAM ELEVATION = 15'-0" AFF. VERIFY w/ ARCH DWGS.
(12)	METAL BUILDING SUPPLIER TO PROVIDE SUPPORT FOR EQUIPMENT.
(13)	DOUBLE JOIST OF TYPICAL SIZE FOR SNOW DRIFT.
(14)	HSS8x4x1/4 w/ DECK BRG ANGLE ALONG WALL. (117'-8 3/4") TO FLUSH w/ TOP OF PLYWOOD.
(15)	HSS10x10x5/8 COLUMN. THIS COLUMN IS OFF GRID.
(16)	CAMBER UP STEEL @ CORNER 1".
(17)	HSS12x6x1/2 COLUMN / OUTRIGGER ASSEMBLY.
(18)	HSS5x5x1/2 COLUMN w/ HSS12x4x1/2 OUTRIGGER (HIGH) (117'-8 3/4") AND HSS10x4x1/4 OUTRIGGER (LOW) (111'-3 1/2"). PROVIDE TYPICAL RECESSED METAL DECK AT BOTH LEVELS.
(19)	HSS5x5x1/2 COLUMN / HSS12x4x1/2 OUTRIGGER (117'-8 3/4") ASSEMBLY.
(20)	HSS12x6x1/2 (LSV) OUTRIGGER (117'-8 3/4").
(21)	ODOR LINE INDICATED w/ HATCHING.
(22)	DECK BEARING ANGLE PER 8/S301.
(23)	POSITION JOIST IN ALIGNMENT w/ INSIDE FACE OF CONCRETE WALL.
(24)	C8x11.5
(25)	ANCHOR STEEL COLUMN TO CMU WALL w/ ADJUSTABLE STRAP ANCHORS @ 16"OC.
(26)	HSS12x6x1/2 COLUMN / HSS12x4x1/2 OUTRIGGER ASSEMBLY. TOP OF OUTRIGGER ASSEMBLY = 117'-8 3/4".
(27)	PROVIDE WINDOW OUTRIGGER TUBES AT THIS CANOPY COLUMN PER 11/S400.
(28)	OFFSET W21x TO NORTH 1/2" FROM COLUMN CENTERLINE. (THUS 4 5/8" SOUTH OF GRID D.)
(29)	MC8x20 BETWEEN ROOF JOISTS (116'-10") TO SUPPORT POP UP ROOF WALLS.
(30)	HSS5x5x1/2 COLUMNS AT ALL FOUR CORNERS. SEE DETAIL 22/S401.
(31)	AHU-2 WEIGHT = 8,500#
(32)	HSS6x6x1/4 TUBES @ AUTOPSY ROOM. REFER TO 10/S410, 2/A821 AND 6/A821.
(33)	4' - 6" WIDE OPENING IN ROOF FOR HV, VERIFY SIZE.
(34)	EF-2 WEIGHT = 12,000#. FRAME OUT OPENINGS PER 2/S400.
(35)	ACC UNITS WEIGHT = 350#
(36)	EF-1 WEIGHT 200#, FRAME OUT OPENING PER 2/S400.
(37)	CHANNELS ON TOP OF DECK FOR UNIT LEGS PER 1/S400.
(38)	HSS6x6x1/4 FOR LIGHT SUPPORT, SEE DETAIL 9/S402.
(39)	MULTI WYTHE WALL PER ARCH DRAWINGS. THE 8" CMU BACK UP WILL BE GROUTED AND REINFORCED w/ #4 REBAR AT 48"OC VERTICALLY IN THE CENTER OF THE 8" WALL. LAP SPLICE 2'-0" ON THE REBAR. THIS WILL OCCUR THE FULL LENGTH OF THE WALL.
(40)	VERIFY w/ OPENING DIMENSION REQUIRED.
(41)	FRAME OUT FOR STAIR OPENING.
(42)	FRAME OUT FOR ROOF MONITOR. SEE 3/S201.
(43)	ONE SIDE CONNECTION DUE TO FRAMING OFFSET. USE 1- L4x3 1/2x5/16 x 1'-2 1/2" w/ 5- 7/8"Ø A325 BOLTS IN FIELD CONNECTION.
(44)	HSS8x4x1/4 (117'-8 3/4") ON COLUMN CENTERLINE w/ DECK SUPPORT ANGLE, SEE 7/S401 (SIM).
(45)	W10x22 (116'-10") AROUND PERIMETER OF POP-UP ROOF.
(46)	TROLLEY SUPPORT BEAM W10x26. BOTTOM OF BEAM EL = 110'-2 5/8". BEAM SIZED FOR 1000 # LIFT. SEE ARCH FOR POSITION. SEE 1/S403 FOR SUPPORT DETAIL @ COLUMNS D.1-4.7, D.1-5.8. PROVIDE L3x3x1/4 SHOP WELDED ANGLE @ EACH END AS TROLLEY STOP.
(47)	DECK SPAN DIRECTION @ CANOPY.
(48)	THIS SCREEN WALL COLUMN WILL STRADDLE THE BEAM JOINT.
(49)	ROOF MOUNTED PV CELLS, REFER TO SHEET S202 &DETAILS 9/S403 & 10/S403 FOR ATTACHMENT. PROVIDE HSS 4.0 x .250 @ POST LOCATIONS SHOWN. REFER TO 11/S410 FOR TYP. FRAMING OF RACK SUPPORTS. (SUPPORTED ON METAL BLDG ROOF MEMBERS @ SIM)
(50)	RTU. SEE PLAN FOR WEIGHTS.
(51)	ROOF OPENING. VERIFY SIZE & LOCATION w/ MECH DWGS. REFER TO 2/S400.
(52)	COORDINATE X-BRACES w/ LOUVER OPENINGS IN WALLS.
(53)	W14x22 (116'-10") ON CMU WALL CENTERLINE.
(54)	3/8" x 10" SQUARE BEARING PLATE w/ 2- 1/2"Ø x 4" HEADED STUDS BELOW. BEAR ON SOLID GROUTED CMU DOWN 3- COURSES.
(55)	DIAGONAL BRACES @ EQUIPMENT SCREEN COLUMNS.
(56)	DOUBLE COLUMNS @ EQUIPMENT SCREEN. SPACE @ 10"OC. NO HORIZONTAL MEMBERS BETWEEN. THIS GAP TO ALLOW EXPANSION/CONTRACTION DUE TO TEMPERATURE CHANGES
(57)	COPE BEAM ENDS PER 12/S403.
(58)	L3x3x1/4 DECK BEARING ANGLE. ANCHOR TO GROUT FILLED CMU w/ 1/2"Ø x 4" SIMPSON TITEN HD (OR EQUAL) @ 24"OC.
(59)	MC8X20 (116'-10"), NORTH & SOUTH SIDE OF OPENING.
(60)	OPENING IN PRECAST PLAN FOR 1FT DUCT. VERTIFY SIZE & LOCATION w/ MECH DRAWINGS. PRECASTER TO DESIGN AND SUPPLY STEEL HEADER.
(61)	ROOF TOP ACCU UNIT. WEIGHT = 500lbs (4) THUS. PROVIDE INTERNAL JOIST REINFORCING PER DETAIL 1/S400

1 S200 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

NOTES:
1. SEE SHEET S001 FOR ALL STRUCTURAL NOTES & SCHEDULES.
2. TOP OF STEEL ELEVATION = JOIST BEARING ELEVATION = 116'-7 1/2", UNLESS NOTED OTHERWISE, i.e. RELATIVE (2 1/2") OR ACTUAL (117'-8 3/4"). AT LOW ROOF: TOP OF STEEL ELEVATION = JOIST BEARING ELEVATION = 115-3 1/2", UNLESS NOTED OTHERWISE, i.e. RELATIVE (2 1/2") OR ACTUAL (117'-8 3/4").
3. ROOF DECK SHALL BE 1 1/2" x 22 GA GALVANIZED WIDE RIB METAL DECK. ERECT (3) SPANS OR (4) SUPPORTS (MIN.). ANCHOR PER S000.

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PE PROJECT 1364-2

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
ROOF FRAMING PLAN

DATE
01.12.15

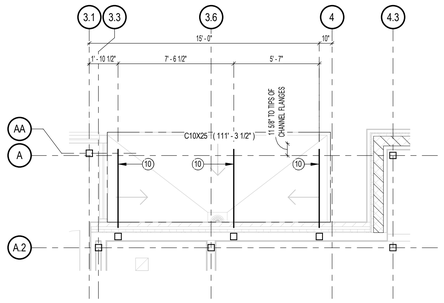
S200

MISC. FRAMING PLAN KEYED NOTES

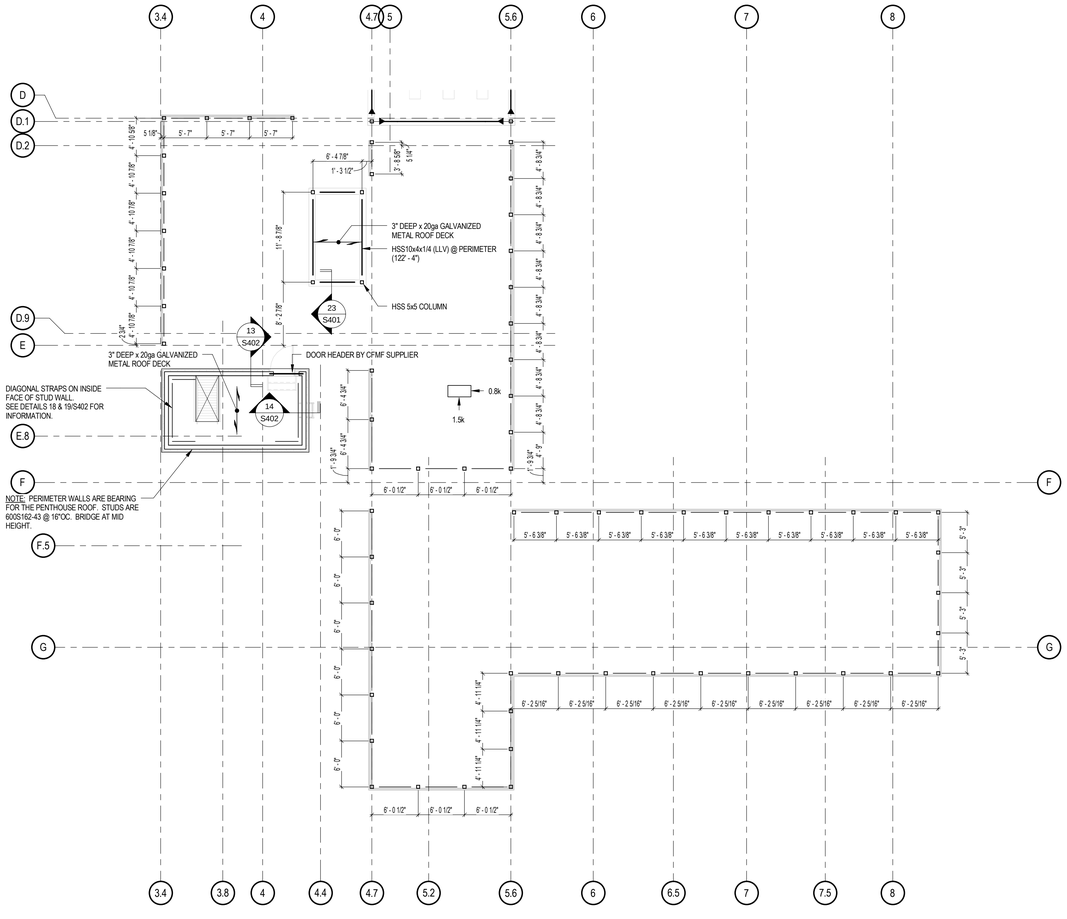
MARK	DESCRIPTION
1	BUILDING COLUMN.
2	WINDOW FRAME COLUMN.
3	HSS4x4 OUTRIGGERS (104'-0").
4	LOW OUTRIGGERS CONCEALED BY A BUILT-IN BENCH.
5	L4x4x1/4 x CONT. FOR WINDOW SUPPORT / STABILIZATION @ 104' - 0".
6	1 1/2" x 22 GA PAINTED WIDE RIB METAL ROOF DECK. ERECT 3- SPANS OR 4- SUPPORTS (MIN). ANCHOR PER S000.
7	TOP OF COLUMN = TOP OF METAL DECK. PLACE 20 GA x 2'-0" SQUARE COVER PLATE ON DECK.
8	SECTION OF W12x22 SHOP WELDED TO COLUMN AS AN OUTRIGGER.
9	HSS4x4x1/4 (104'-0").
10	HSS10x4x1/4 (111'-3 1/2").
11	HSS6x3x3/8 LSV (115'-6").
12	L4x3x1/4 LLH FOR WINDOW SUPPORT / STABILIZATION.
13	HSS3x3x1/4 OUTRIGGERS (115'-3").

VIEWING PLATFORM FRAMING NOTES

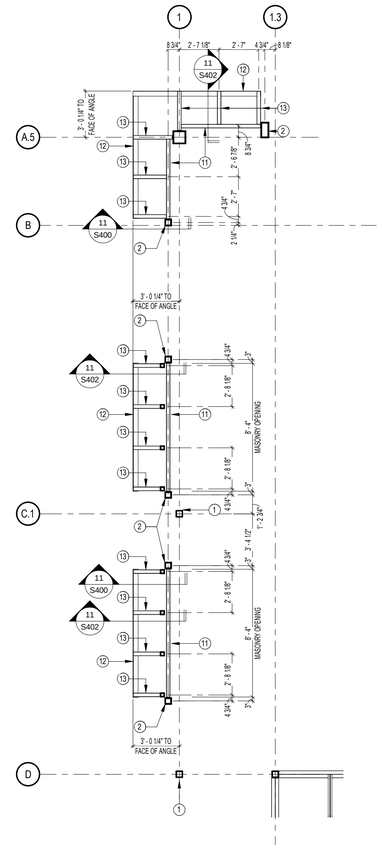
1. EXTEND CONCRETE SLAB ON GRADE UNDER RAISED VIEWING AREA.
2. PROVIDE METAL STUD WALLS AROUND ENTIRE PERIMETER OF RAISED VIEWING PLATFORM AND AT MAX 3'-0"OC INTERNALLY.
3. PROVIDE DIAGONAL X BRACE PANELS WHERE SHOWN ON PLAN. USE 2"x14ga STRAP ON EACH SIDE OF WALL PLACED IN AN X SHAPE. SEE DETAIL 22/S402.
4. RAISED FLOOR SYSTEM IS 4 1/2" TOTAL THICKNESS CONCRETE SLAB ON 1 1/2" x 22ga GALVANIZED METAL FORM DECK INSTALLED WIDE FLUTES UP. REINFORCE w/ 6x6 - 6/6 WWF.



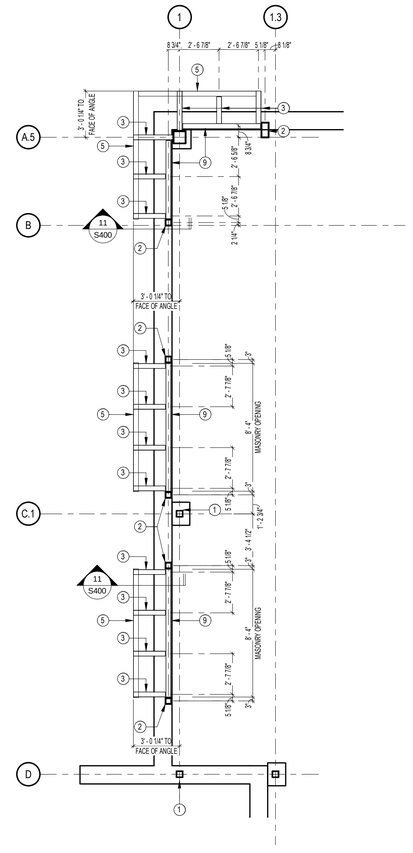
6 S201 **LOWER CANOPY FRAMING PLAN**
SCALE : 1/4" = 1'-0"



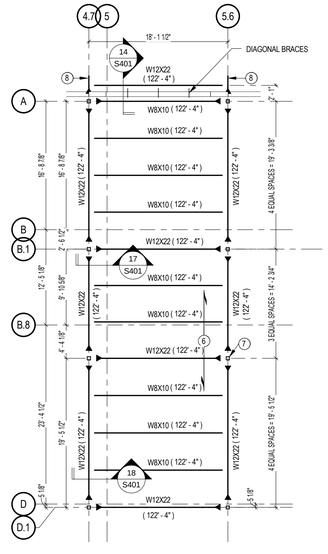
3 S201 **HIGH ROOF FRAMING PLAN**
SCALE: NTS



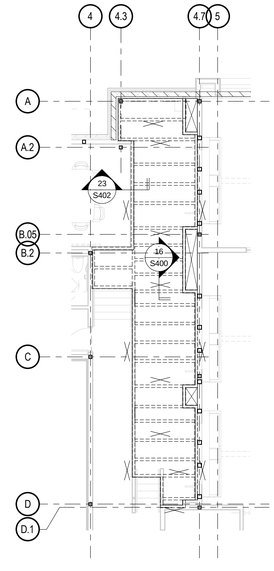
5 S201 **WINDOW LEVEL FRAMING (HIGH)**
SCALE : 1/4" = 1'-0"



4 S201 **WINDOW LEVEL FRAMING (LOW)**
SCALE : 1/4" = 1'-0"



2 S201 **LIGHT MONITOR ROOF FRAMING PLAN**
SCALE : 1/8" = 1'-0"



1 S201 **VIEWING PLATFORM FRAMING PLAN**
SCALE : 1/8" = 1'-0"

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PE PROJECT 13642

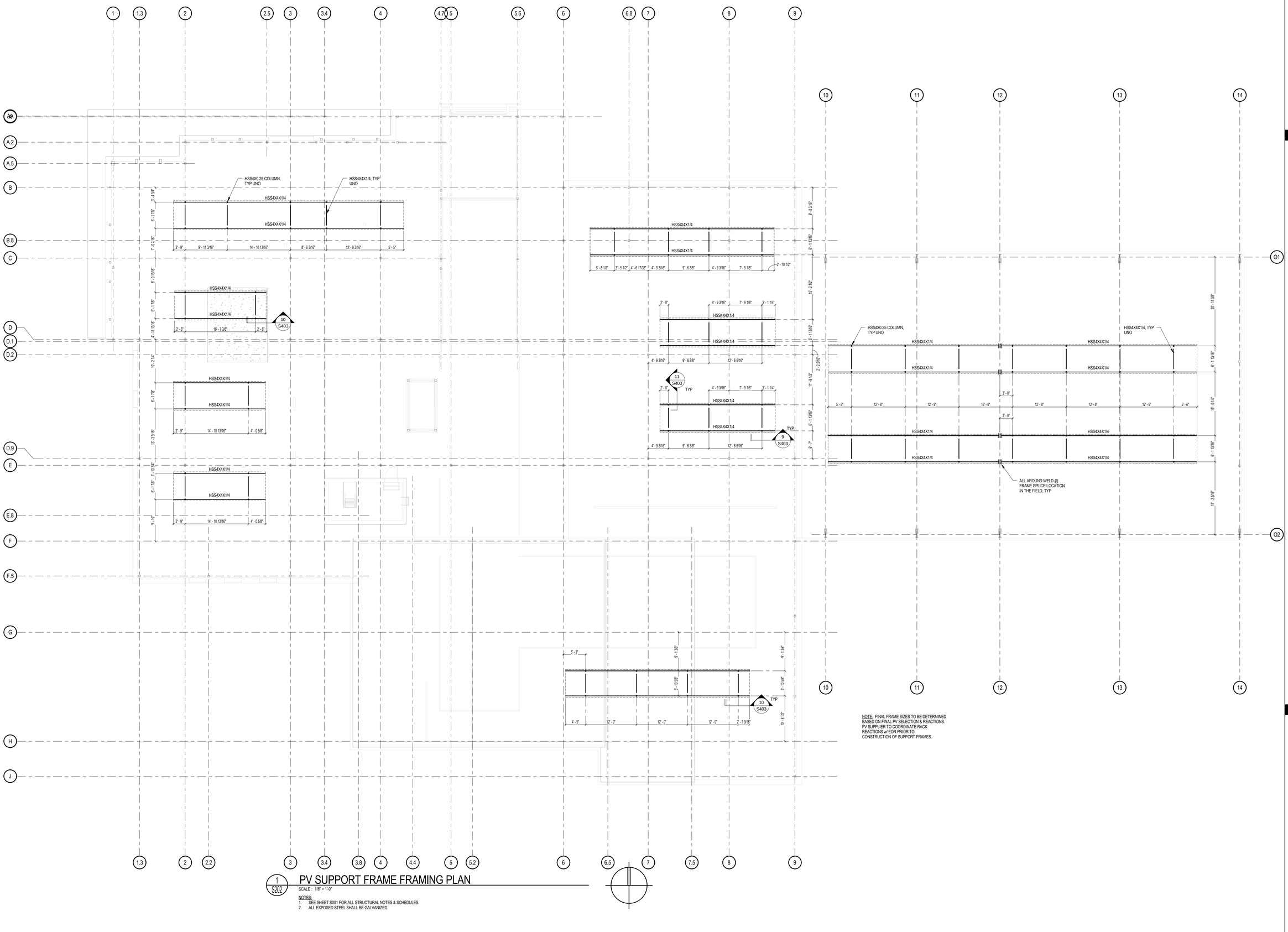
PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
MISC FRAMING PLANS

DATE
01.12.15



NOTE: FINAL FRAME SIZES TO BE DETERMINED BASED ON FINAL PV SELECTION & REACTIONS. PV SUPPLIER TO COORDINATE RACK REACTIONS w/ EOR PRIOR TO CONSTRUCTION OF SUPPORT FRAMES.

1 S202 PV SUPPORT FRAME FRAMING PLAN

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

NOTES:
1. SEE SHEET S001 FOR ALL STRUCTURAL NOTES & SCHEDULES.
2. ALL EXPOSED STEEL SHALL BE GALVANIZED.

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PROJECT
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3562 COUNTY HIGHWAY AB
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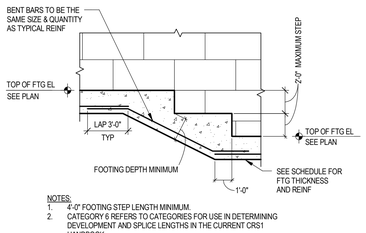
BID NO.
313083

DRAWING
PV SUPPORT FRAME FRAMING PLAN

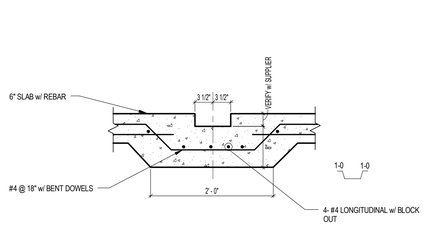
DATE
01.12.15

S202

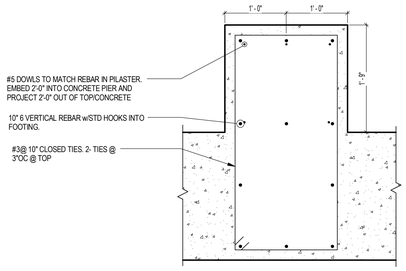


NOTES:
1. 4'-0" FOOTING STEP LENGTH MINIMUM.
2. CATEGORY 6 REFERS TO CATEGORIES FOR USE IN DETERMINING DEVELOPMENT AND SPLICE LENGTHS IN THE CURRENT CRS1 HANDBOOK.

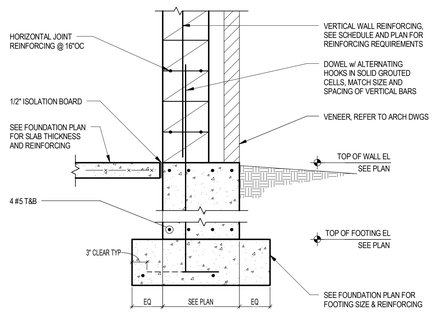
25 S300 STEPPED FOOTING @ MASONRY WALL
SCALE: NTS



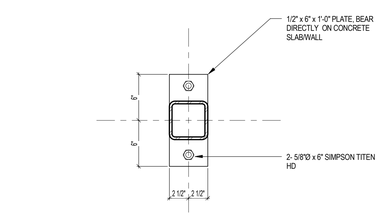
24 S300 DETAIL @ TRENCH FOR ROLLING SHELVING UNITS
SCALE: NTS
VERIFY ALL DIMS w/ SUPPLIER



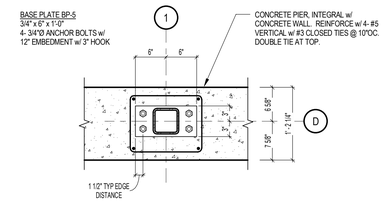
23 S300 CONCRETE PIER DETAIL @ MASONRY PILASTER
SCALE: NTS



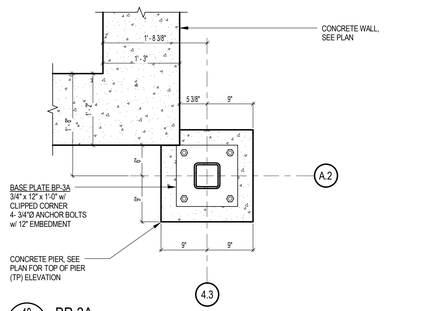
22 S300 EXTERIOR MASONRY w/ FOOTING
SCALE: NTS



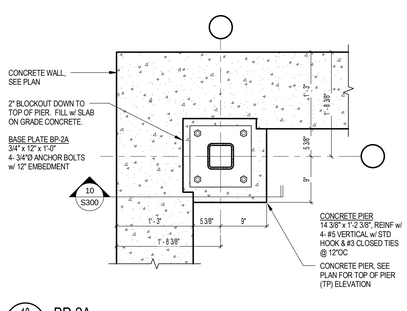
21 S300 BP-6
SCALE: NTS



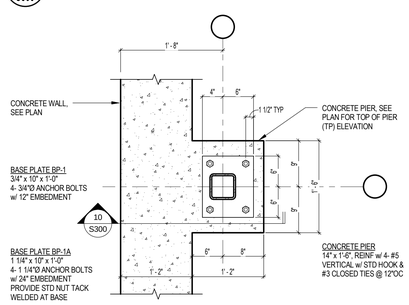
20 S300 BP-5
SCALE: NTS



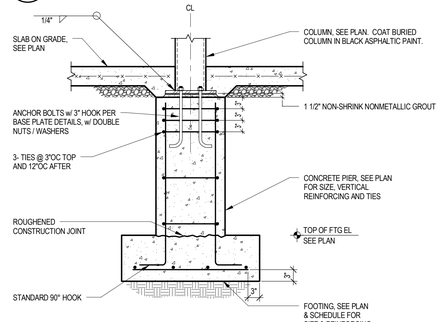
19 S300 BP-3A
SCALE: NTS



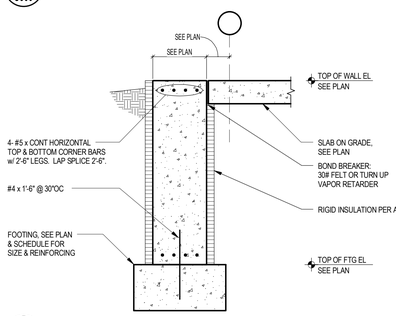
14 S300 BP-2
SCALE: NTS



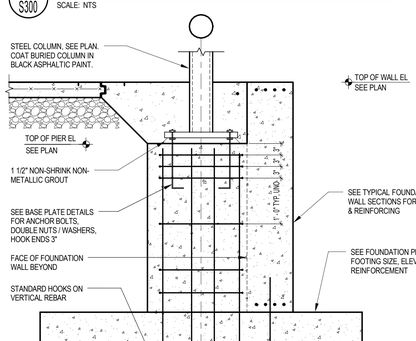
18 S300 BP-2A
SCALE: NTS



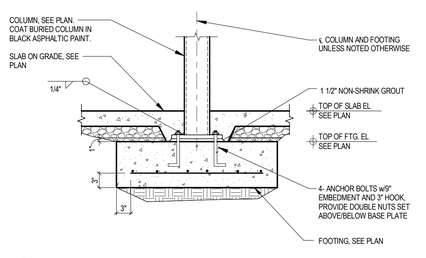
17 S300 BP-1B
SCALE: NTS



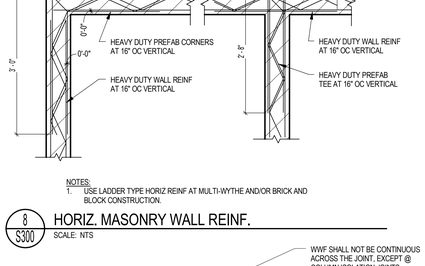
16 S300 BP-4
SCALE: NTS



10 S300 FOOTING & PIER @ EXTERIOR COLUMN
SCALE: NTS

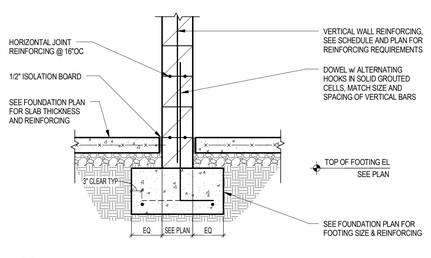


9 S300 COLUMN FOOTING @ NON-METAL BUILDING
SCALE: NTS

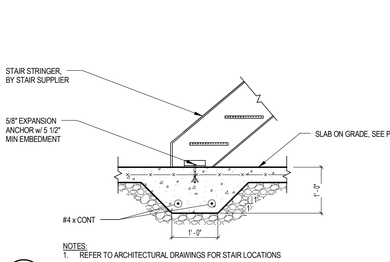


NOTES:
1. USE LADDER TYPE HORIZ REINF AT MULTI-WYTHE AND/OR BRICK AND BLOCK CONSTRUCTION.

8 S300 HORIZ. MASONRY WALL REINF.
SCALE: NTS

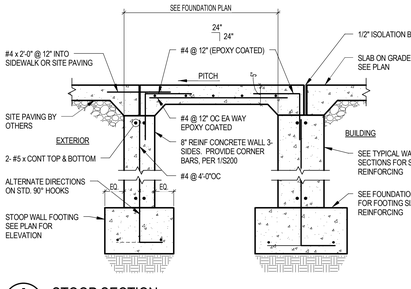


7 S300 INTERIOR MASONRY WALL FOOTING
SCALE: NTS

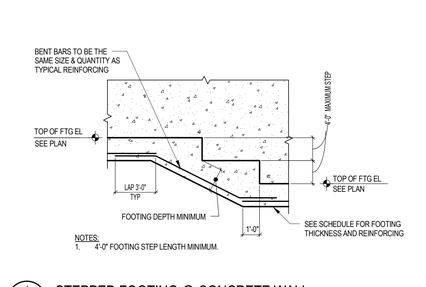


NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR STAIR LOCATIONS

6 S300 TYPICAL STAIR FOOTING / FOUNDATION
SCALE: NTS

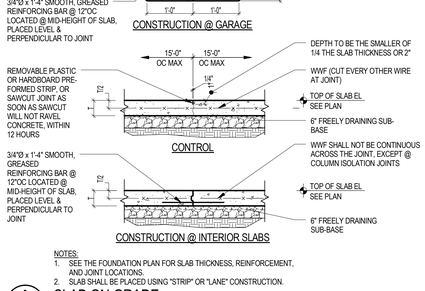


5 S300 STOOP SECTION
SCALE: NTS



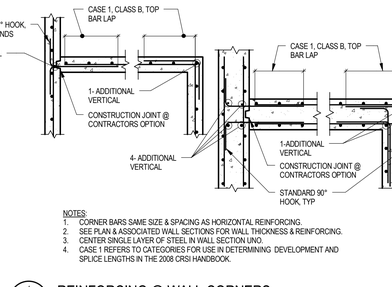
NOTES:
1. 4'-0" FOOTING STEP LENGTH MINIMUM.

4 S300 STEPPED FOOTING @ CONCRETE WALL
SCALE: NTS



NOTES:
1. SEE THE FOUNDATION PLAN FOR SLAB THICKNESS, REINFORCEMENT, AND JOINT LOCATIONS.
2. SLAB SHALL BE PLACED USING "STRIP" OR "LANE" CONSTRUCTION.

3 S300 SLAB ON GRADE
SCALE: NTS



NOTES:
1. WEAKENED PLANE CONSTRUCTION JOINTS SHOULD OCCUR AT INTERVALS OF 25 FEET, AND KEYED CONSTRUCTION JOINTS AT EVERY FOURTH JOINT.
2. SEE PLAN & ASSOCIATED SECTIONS FOR WALL THICKNESS & REINFORCING.
3. CENTER SINGLE LAYER OF STEEL IN WALL SECTION, UNO.

2 S300 TYPICAL VERTICAL WALL JOINTS
SCALE: NTS

NOTES:
1. CORNER BARS SAME SIZE & SPACING AS HORIZONTAL REINFORCING.
2. SEE PLAN & ASSOCIATED WALL SECTIONS FOR WALL THICKNESS & REINFORCING.
3. CENTER SINGLE LAYER OF STEEL IN WALL SECTION UNO.
4. CASE 1 REFERS TO CATEGORIES FOR USE IN DETERMINING DEVELOPMENT AND SPLICE LENGTHS IN THE 2008 CRSI HANDBOOK.

1 S300 REINFORCING @ WALL CORNERS
SCALE: NTS

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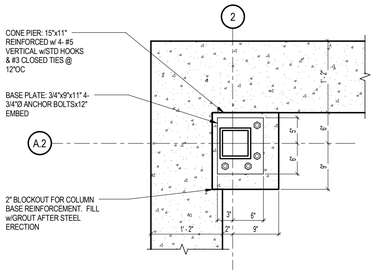
PE PROJECT: 1 16-42

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
FOUNDATION DETAILS

DATE
01.12.15



15 S301 SECTION
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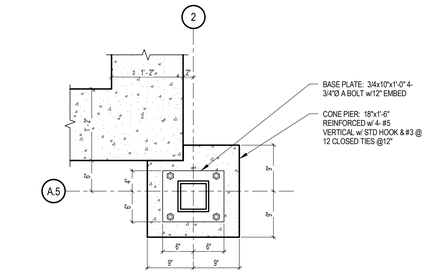

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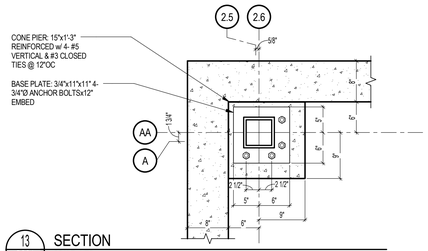
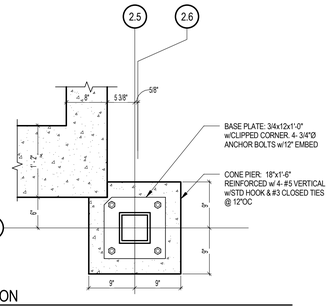


13 S301 SECTION
SCALE: NTS



12 S301 SECTION
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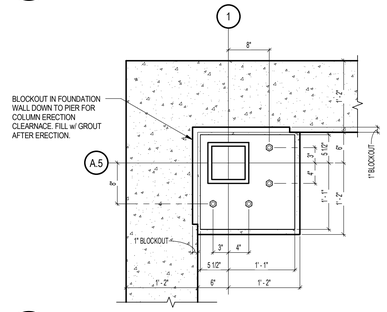

11 S301 SECTION
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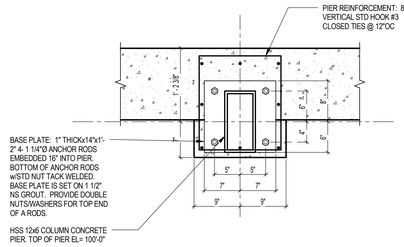

16 S301 SECTION
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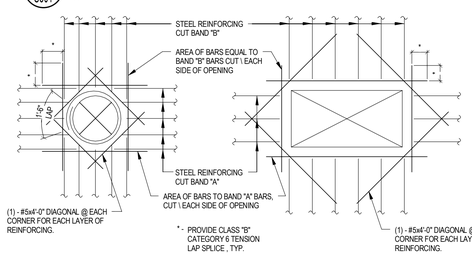
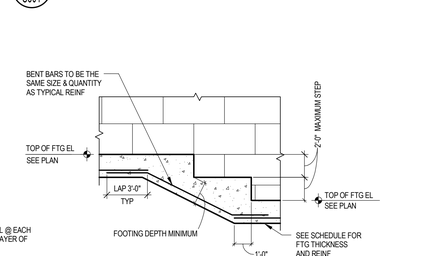


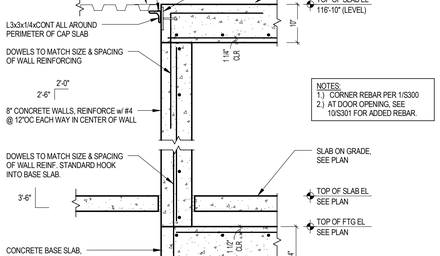
NOTES:
1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS & SLABS UNLESS NOTED OTHERWISE ON PLANS. DO
2. NOT WELD REINFORCEMENT TO PIPE SLEEVE & INSERTS UNLESS NOTED OTHERWISE ON PLANS.
3. CATEGORY 6 REFERS TO CATEGORIES FOR USE IN DETERMINING DEVELOPMENT AND SPLICE LENGTHS IN THE 1992 CRSI HANDBOOK.

10 S301 REINFORCING @ CONCRETE OPENINGS
SCALE: NTS



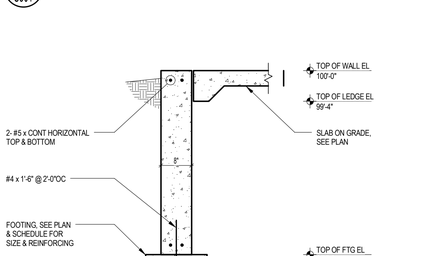
NOTES:
1. 4'-0" FOOTING STEP LENGTH MINIMUM.
2. CATEGORY 6 REFERS TO CATEGORIES FOR USE IN DETERMINING DEVELOPMENT AND SPLICE LENGTHS IN THE CURRENT CRSI HANDBOOK.

9 S301 STEPPED FOOTING @ MASONRY WALL
SCALE: NTS

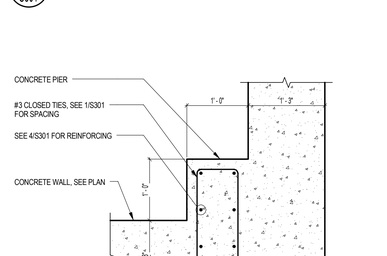


NOTES:
1.) CORNER REBAR PER 1/S300
2.) AT DOOR OPENING, SEE 10/S301 FOR ADDED REBAR.

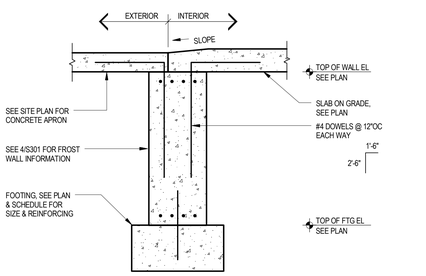
8 S301 SECTION @ RECORDS 107
SCALE: NTS



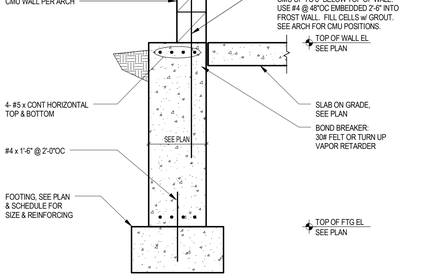
7 S301 FROST WALL @ VESTIBULE
SCALE: NTS



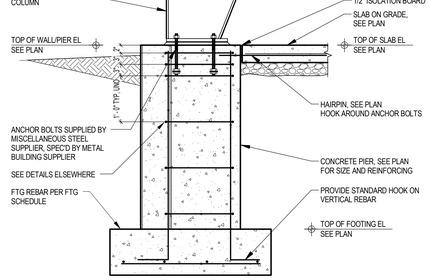
6 S301 CORNER PIER DETAIL - GARAGE
SCALE: NTS



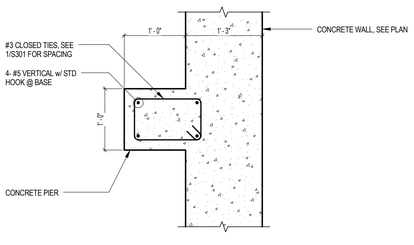
3 S301 SECTION @ GARAGE DOOR
SCALE: NTS



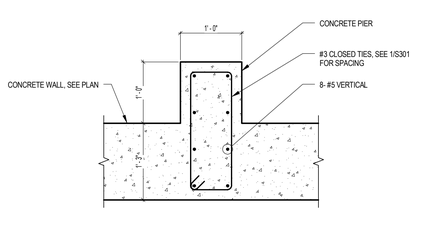
2 S301 FROST WALL @ GARAGE
SCALE: NTS



1 S301 PERIMETER PIER DETAIL
SCALE: NTS



5 S301 END WALL COLUMN PIER DETAIL
SCALE: NTS



4 S301 PIER DETAIL @ MAIN FRAME COLUMN
SCALE: NTS

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01.12.15 CONSTRUCTION DOCUMENTS

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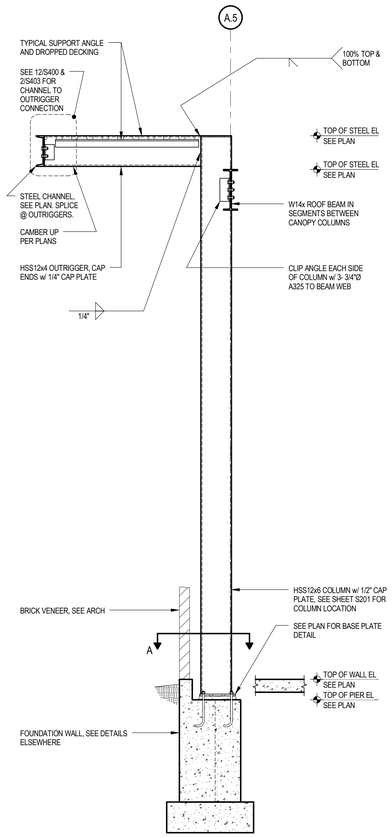
PE PROJECT: 1 56-42

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

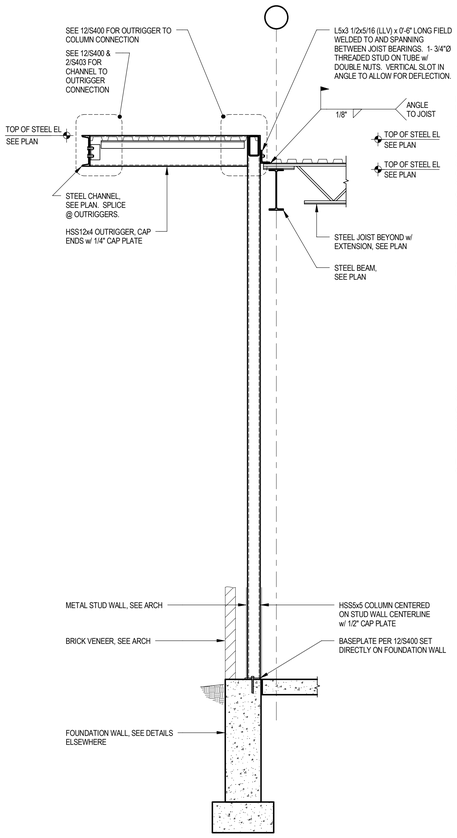
BID NO.
313083

DRAWING
FOUNDATION DETAILS

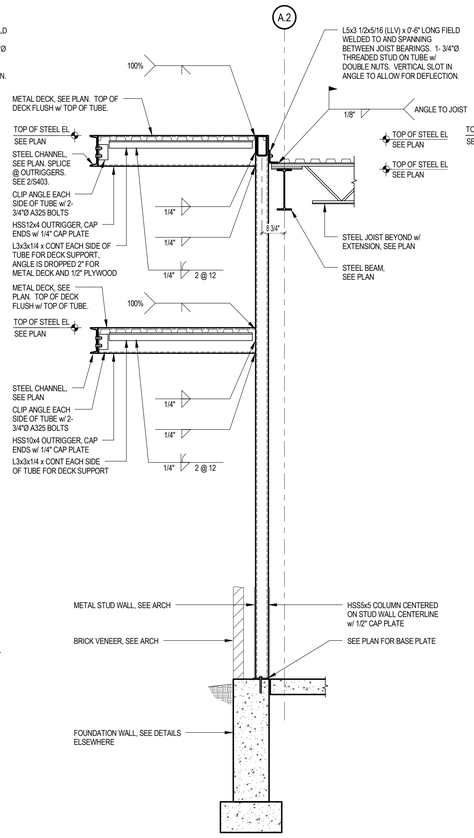
DATE
01.12.15



14 S400 LONG CANOPY SECTION
SCALE: NTS



13 S400 CANOPY DETAIL
SCALE: NTS



12 S400 CANOPY DETAIL
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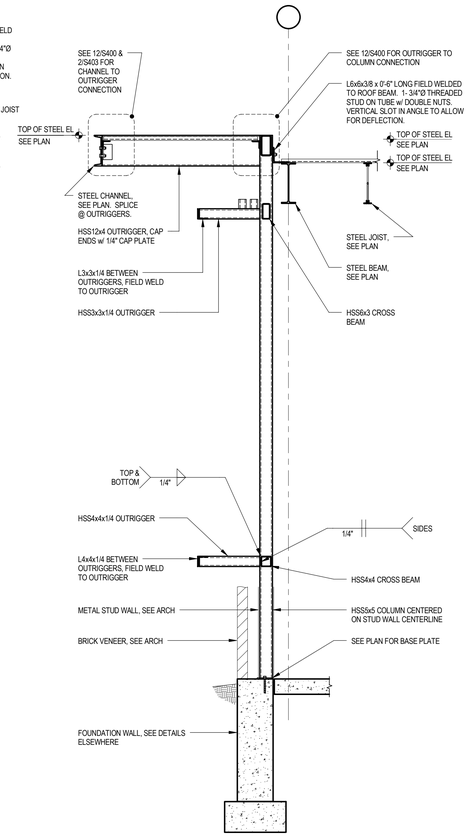
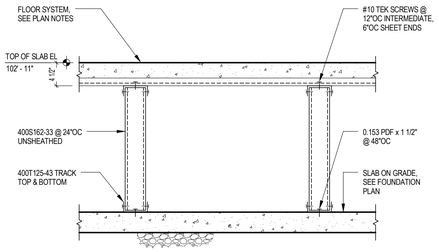
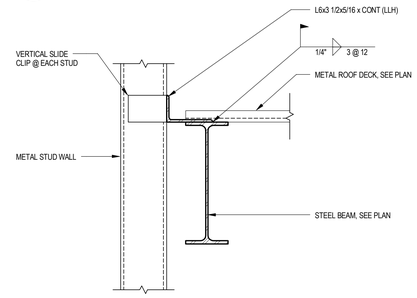


11 S400 VERTICAL BRACING TUBE DETAIL
SCALE: NTS



16 S400 SECTION @ VIEWING PLATFORM
SCALE: NTS



15 S400 SECTION
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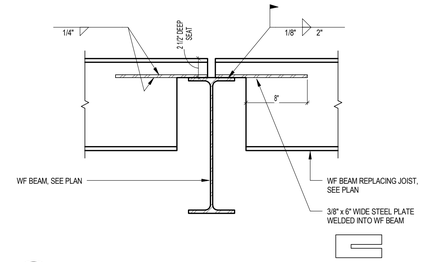

10 S400 SECTION
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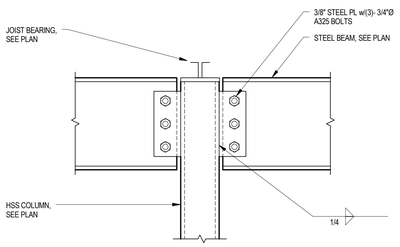
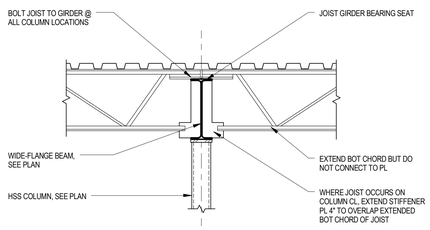


9 S400 BEAM CONNECTION @ COLUMN
SCALE: NTS

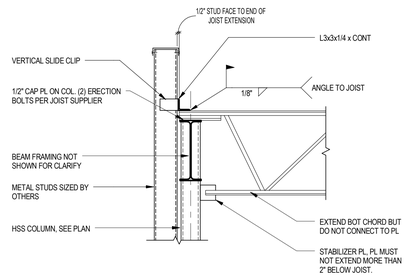
CONNECTION SCHEDULE

MINIMUM BEAM SIZE	NUMBER OF BOLTS	L (in)	WELD SIZE (in)
W8,W10	2	5 1/2"	3/16"
W12,W14	3	8 1/2"	3/16"
W16	4	11 1/2"	3/16"
W18, W21	5	14 1/2"	3/16"
W24	6	17 1/2"	1/4"
W27	7	20 1/2"	1/4"
W30, W33	8	23 1/2"	5/16"
W36	9	26 1/2"	5/16"

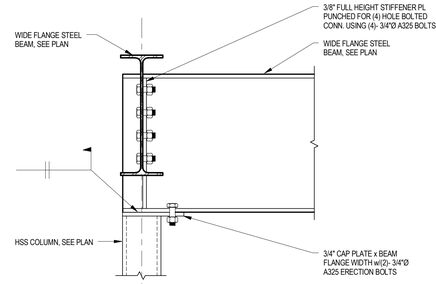
CONNECTION SCHEDULE NOTE:
SCHEDULE APPLIES TO DETAILS 4, 5 & 9/S400



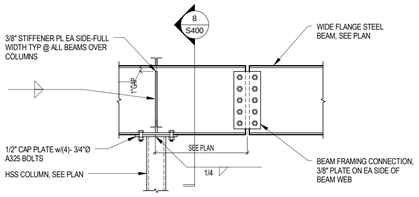
8 S400 JOIST BEARING @ COLUMN CENTERLINE
SCALE: NTS



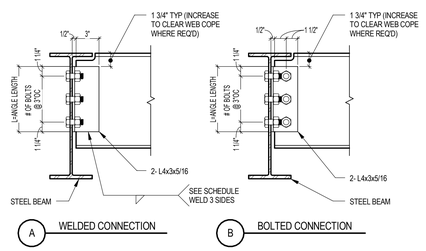
7 S400 JOIST BEARING @ EXTERIOR COLUMN
SCALE: NTS



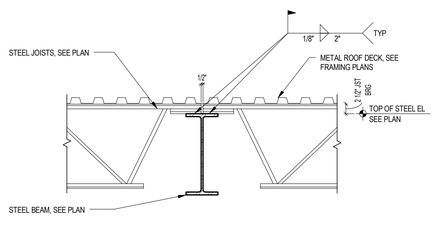
6 S400 END COLUMN
SCALE: NTS



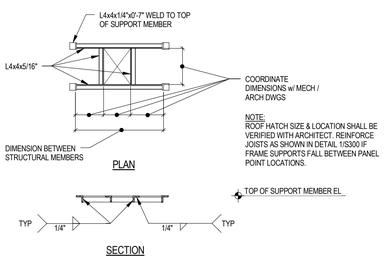
5 S400 BEAM SPLICE
SCALE: NTS



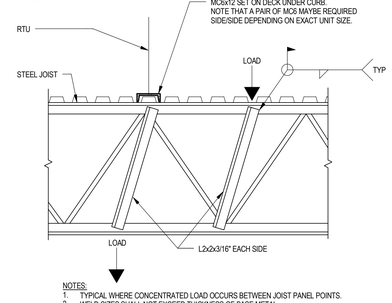
4 S400 TYP BEAM TO BEAM OR BEAM TO COL CONNECTION
SCALE: NTS



3 S400 TYP JOIST CONNECTION TO STEEL BEAM @ ROOF
SCALE: NTS



2 S400 DECK OPENING DETAIL
SCALE: NTS



1 S400 JOIST REINFORCEMENT DETAIL @ MECH UNIT
SCALE: NTS

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PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
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BID NO.
313083

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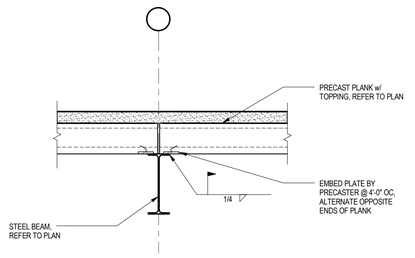
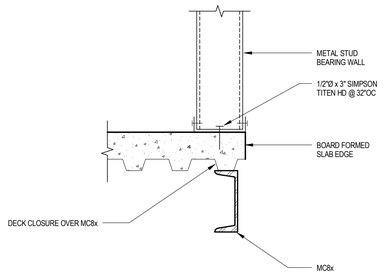
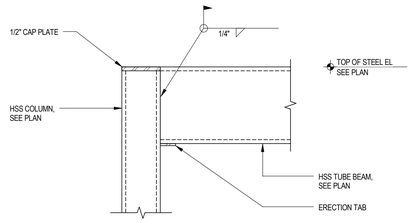


25 S401 PRECAST BRG@ STEEL BEAM
SCALE: NTS



24 S401 SECTION
SCALE: NTS



23 S401 SECTION
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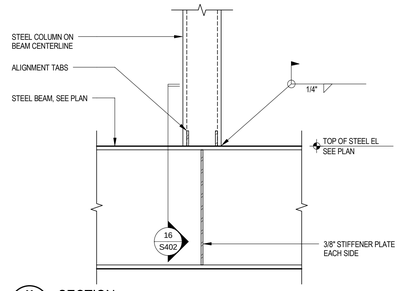

22 S401 SECTION
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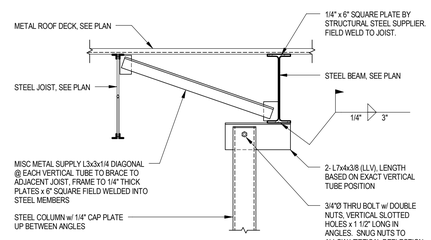

21 S401 SECTION
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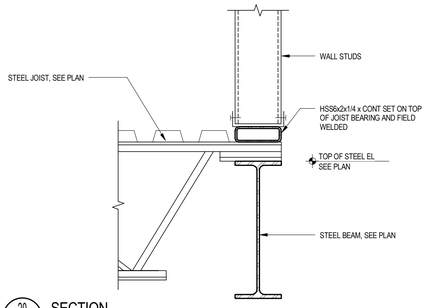

20 S401 SECTION
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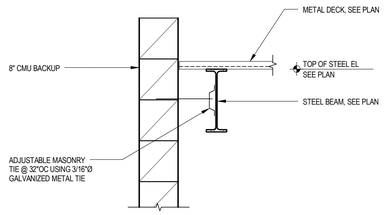
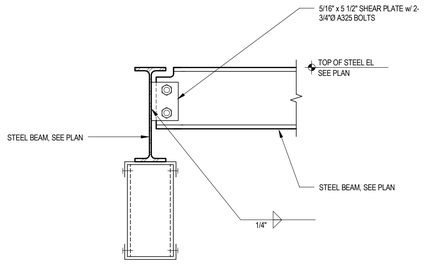


19 S401 MASONRY WALL ANCHORAGE, TYP @ CMU BACKUP
SCALE: NTS



18 S401 SECTION
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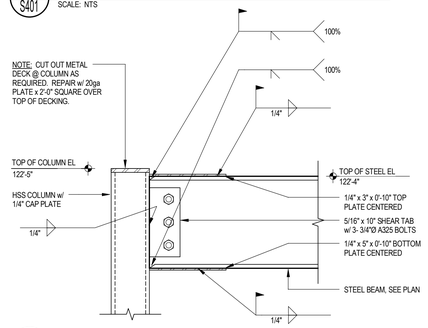
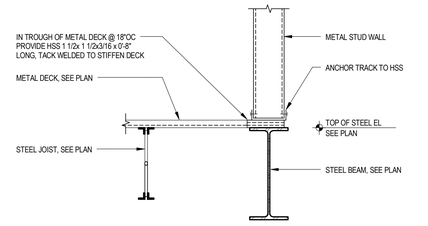


17 S401 MOMENT CONNECTION AT MONITOR ROOF
SCALE: NTS



16 S401 SECTION
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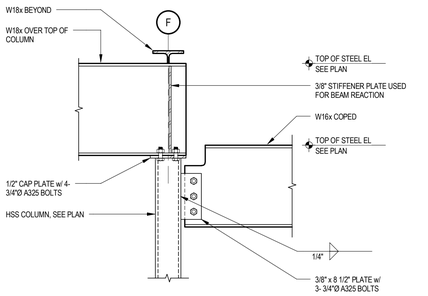
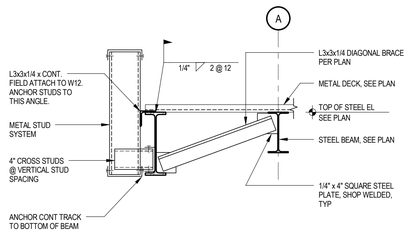
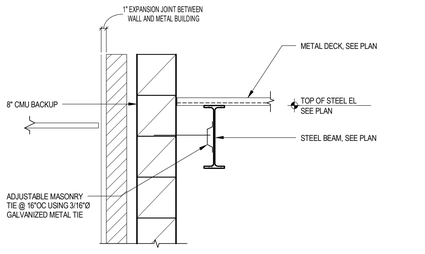


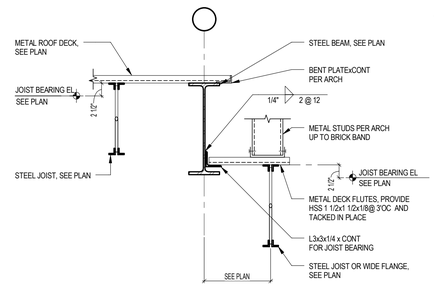
15 S401 SECTION AT HIGH / LOW ROOF
SCALE: NTS



14 S401 SECTION AT ROOF EDGE
SCALE: NTS



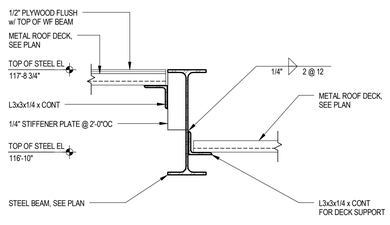
13 S401 ROOF EDGE
SCALE: NTS



12 S401 SECTION AT HIGH/LOW ROOF CONDITION
SCALE: NTS

NOT USED

11 S401 NOT USED
SCALE: NTS



10 S401 SECTION
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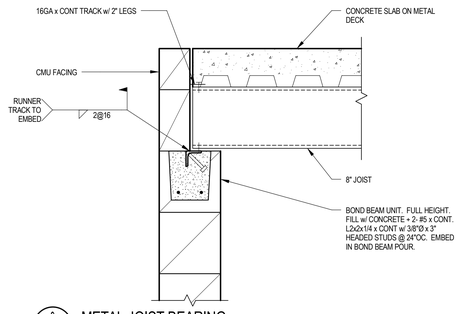
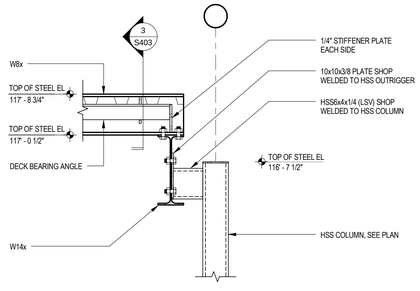


9 S401 METAL JOIST BEARING
SCALE: NTS



8 S401 SECTION
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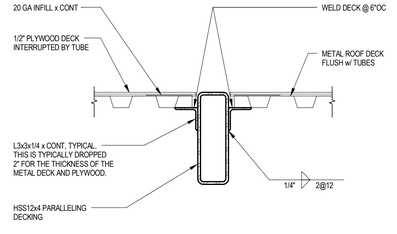

7 S401 SECTION AT OUTRIGGER
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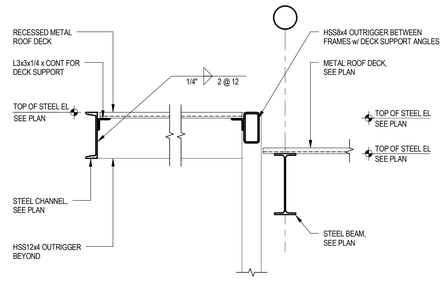
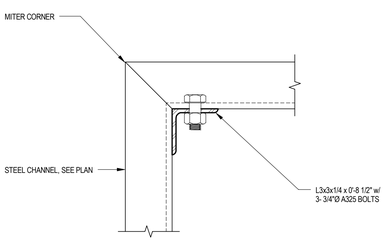
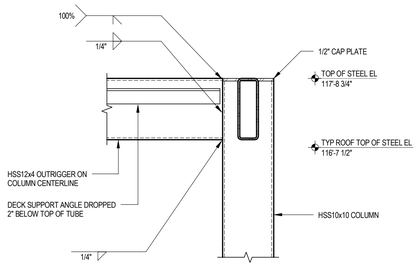


6 S401 DETAIL AT WEST CANOPY BETWEEN FRAMES
SCALE: NTS



5 S401 CORNER DETAIL
SCALE: NTS



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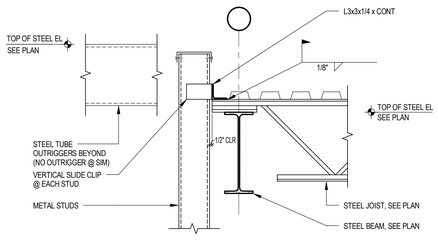

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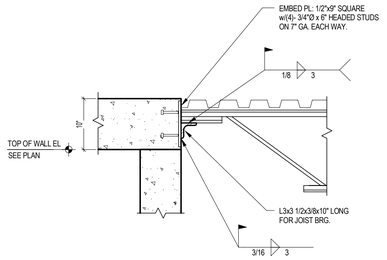

2 S401 SECTION @ RECORDS 107
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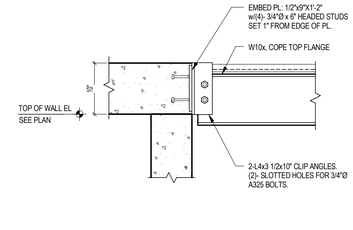

1 S401 SECTION @ RECORDS 107
SCALE: NTS

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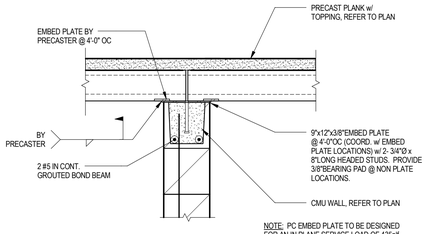
PE PROJECT: 136-42

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
FRAMING DETAILS

DATE
01.12.15



25 S402 PRECAST BRG@ STEEL BEAM
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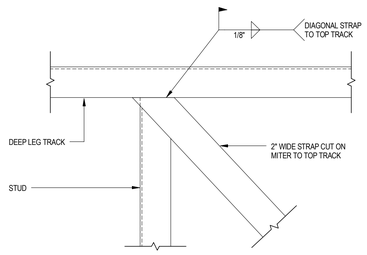

20 S402 DIAGONAL BRACE INTERSECTION @ TOP
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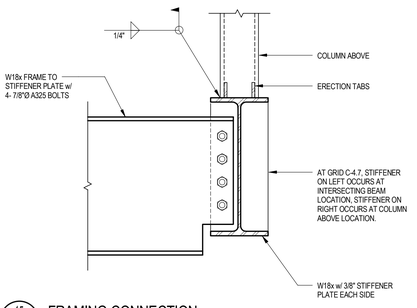

15 S402 FRAMING CONNECTION
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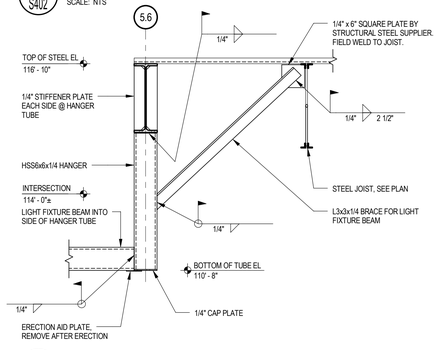

10 S402 HANGER DETAIL
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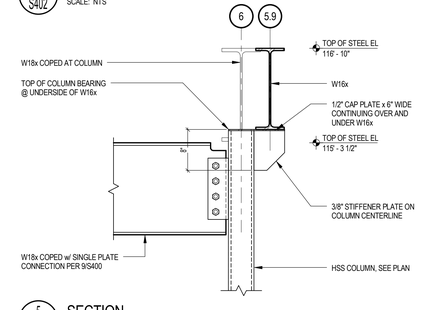

5 S402 SECTION
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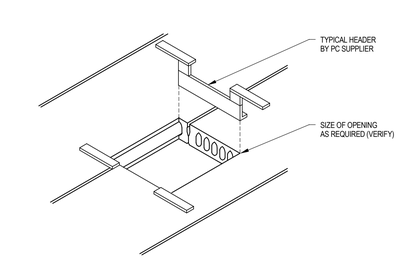

24 S402 PRECAST PLANK HEADER
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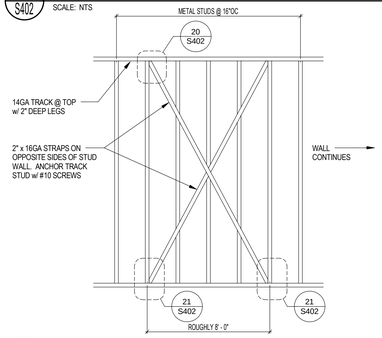
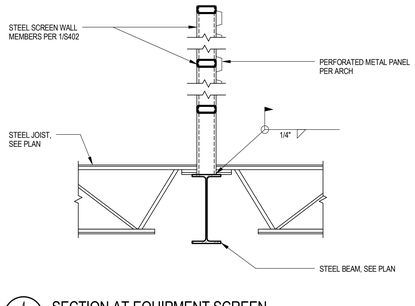


19 S402 INTERIOR ELEVATION OF PENTHOUSE LONG SIDE
SCALE: NTS



4 S402 SECTION AT EQUIPMENT SCREEN
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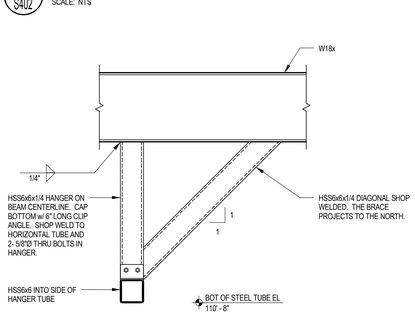
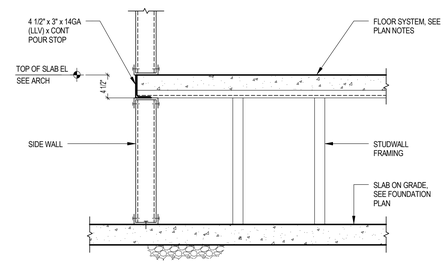
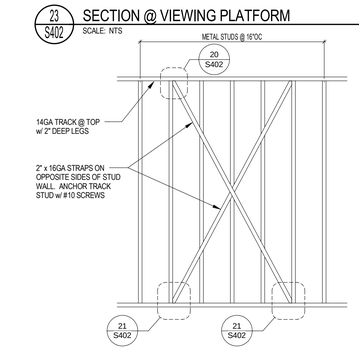


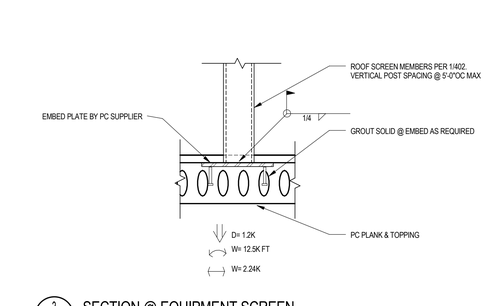
9 S402 HANGER DETAIL
SCALE: NTS

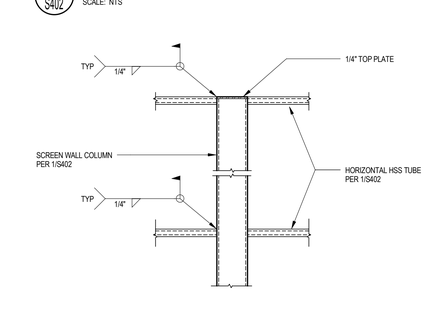


23 S402 SECTION @ VIEWING PLATFORM
SCALE: NTS



18 S402 INTERIOR ELEVATION OF PENTHOUSE SHORT WALL
SCALE: NTS





8 S402 SECTION
SCALE: NTS

3 S402 SECTION @ EQUIPMENT SCREEN
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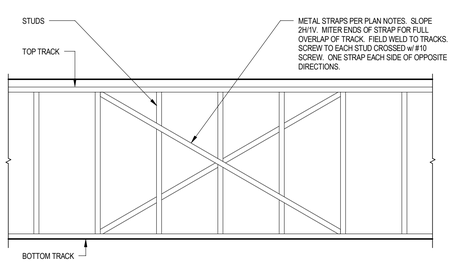

22 S402 STRAP BRACING ELEVATION @ VIEWING PLATFORM
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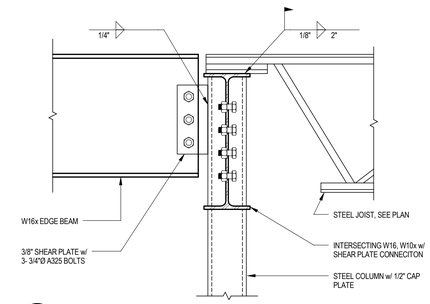

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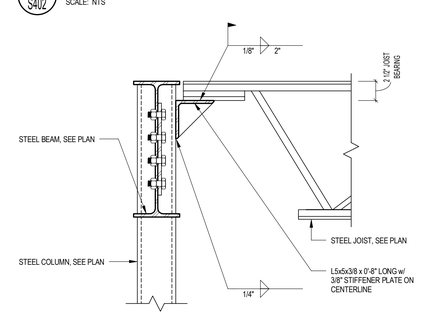

7 S402 SECTION
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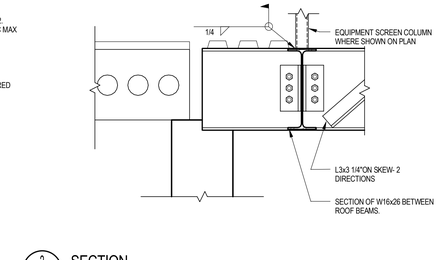

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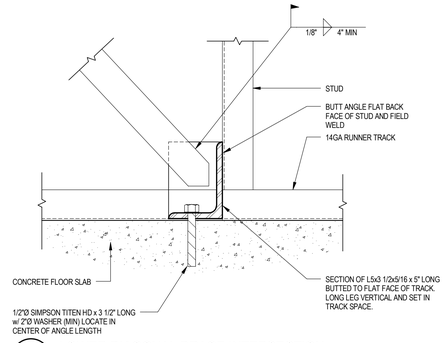

21 S402 LOWER DIAGONAL BRACE INTERSECTION
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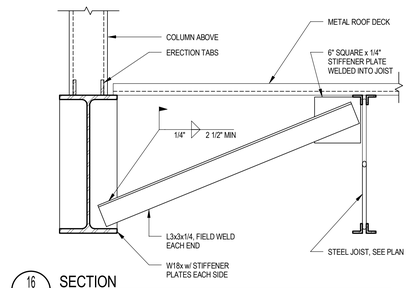

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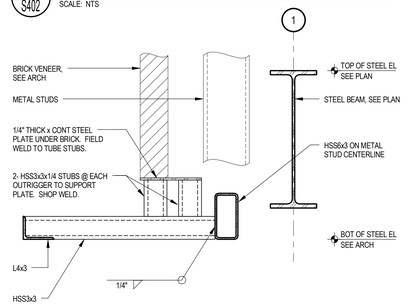

1 S402 SECTION AT EQUIPMENT SCREEN
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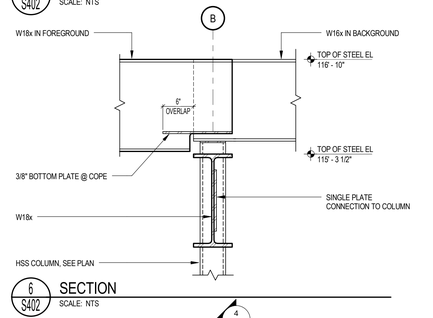

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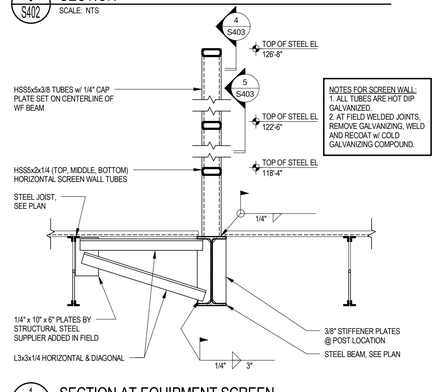

11 S402 SECTION
SCALE: NTS

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PE PROJECT 1364-2

PROJECT
MEDICAL EXAMINER OFFICE
BUILDING (BID PACKAGE B)
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MC FARLAND, WI 53558

BID NO.
313083

DRAWING
FRAMING DETAILS

DATE
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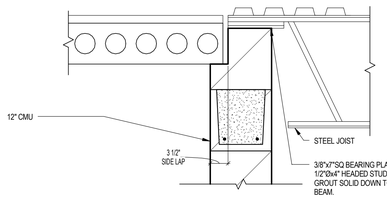

15 S403 SECTION
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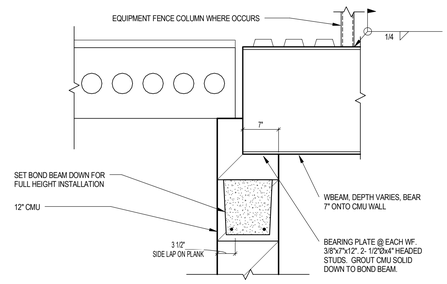

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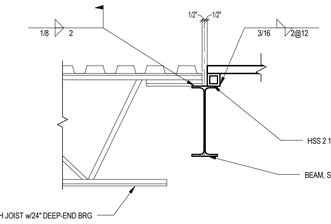

13 S403 DECK DETAIL @ CHANGE IN DECK DIRECTION
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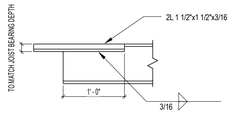

12 S403 BEAM COPE
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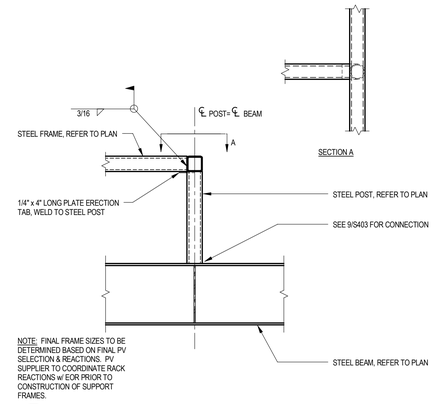

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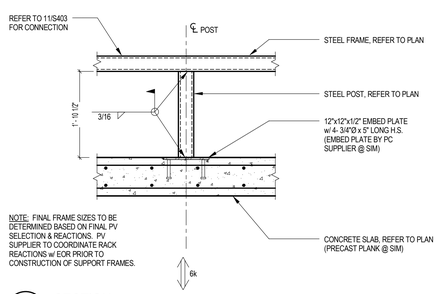

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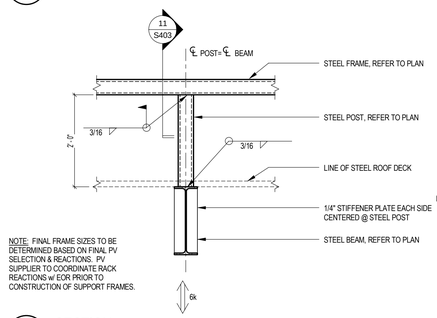

9 S403 SECTION
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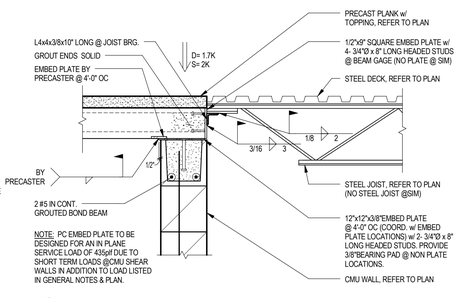

8 S403 SECTION
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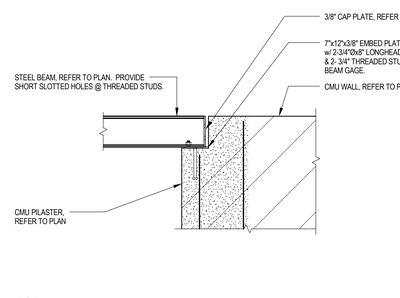

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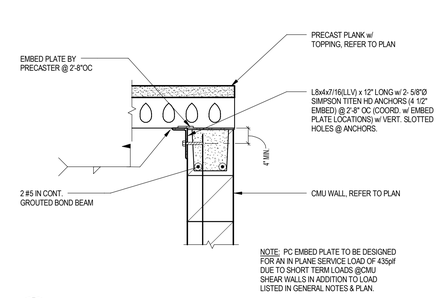

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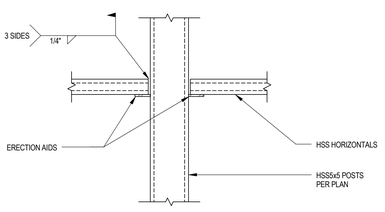

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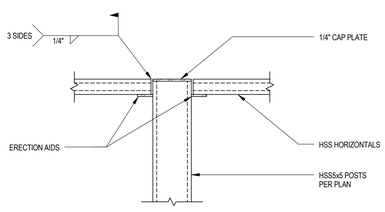

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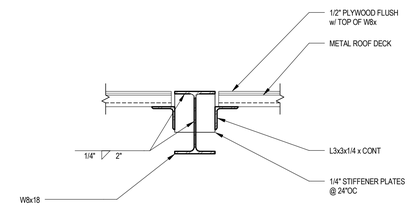

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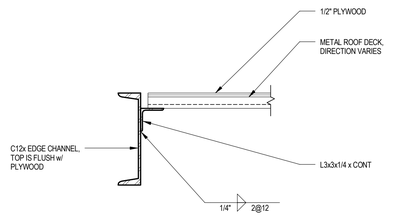
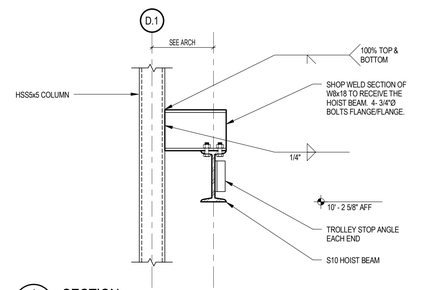


2 S403 CANOPY EDGE CHANNEL
SCALE: NTS



1 S403 SECTION
SCALE: NTS

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PE PROJECT: 1356-12

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

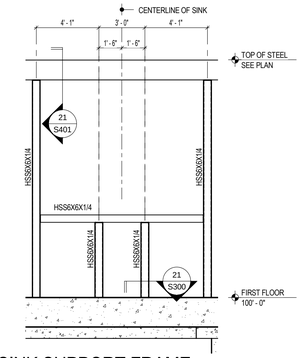
BID NO.
313083

DRAWING
FRAMING DETAILS

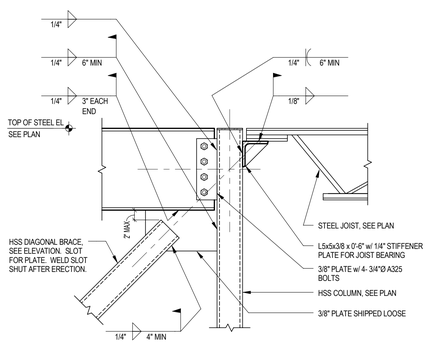
DATE
01.12.15

SINK SUPPORT FRAME NOTES

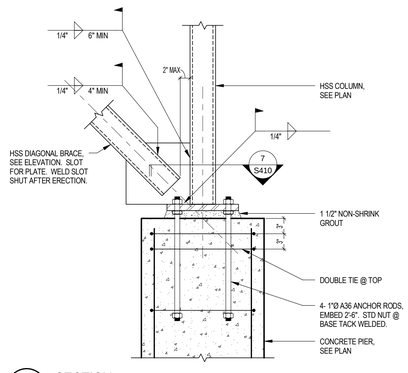
1. FRAMING IS BY MISC METAL SUPPLIER.
2. ALL DIMENSIONS HERE ARE TO BE VERIFIED BY THE GC w/ THE SINK SUPPLIER BEFORE FABRICATION.
3. INFORMATION IS TAKEN FROM DETAIL SHEETS BY MORTECH MANUFACTURING.
4. TUBE VERTICALS ARE CONTINUOUS TO UNDERSIDE OF ROOF STEEL. HORIZONTAL MEMBERS ARE INTERUPTED BY VERTICALS.
   FIELD WELD HORIZONTAL MEMBERS ALL AROUND TO VERTICALS.



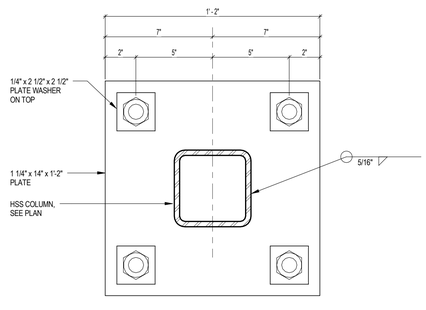
10 S410 **SINK SUPPORT FRAME**
SCALE : 1/4" = 1'-0"



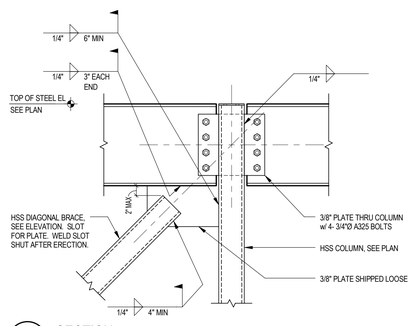
9 S410 **SECTION**
SCALE: NTS



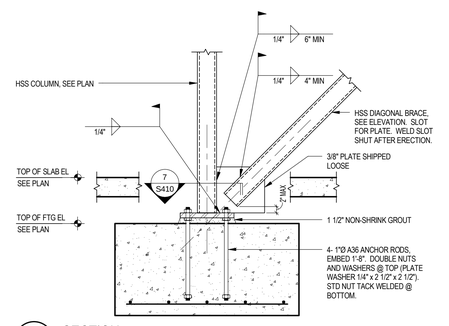
8 S410 **SECTION**
SCALE: NTS



7 S410 **BASEPLATE DETAIL**
SCALE: NTS



6 S410 **SECTION**
SCALE: NTS



5 S410 **SECTION**
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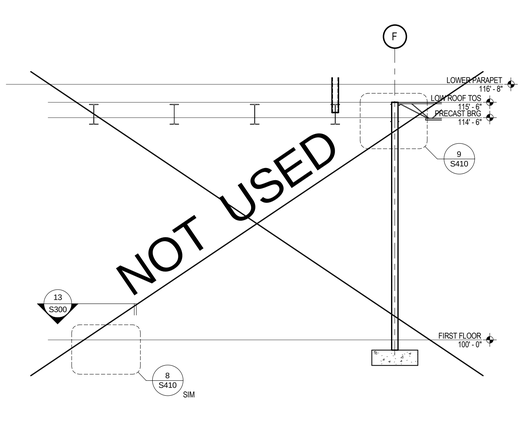
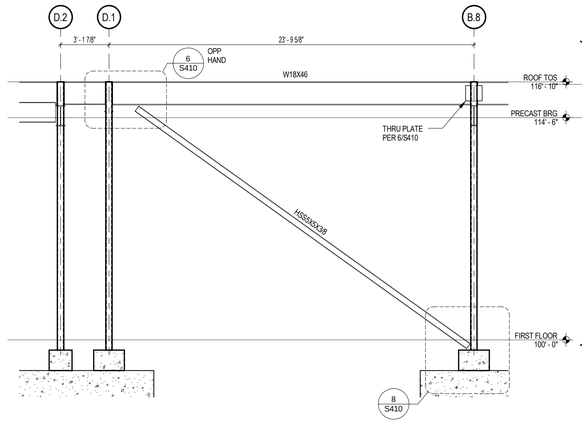
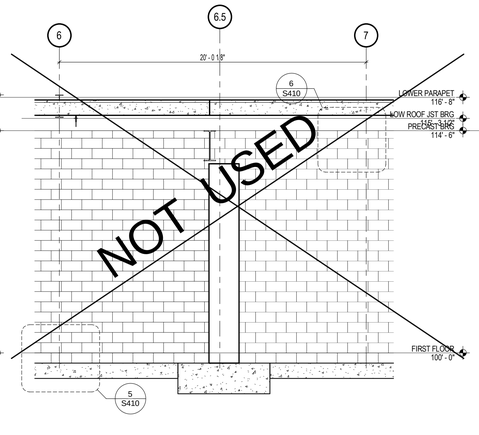


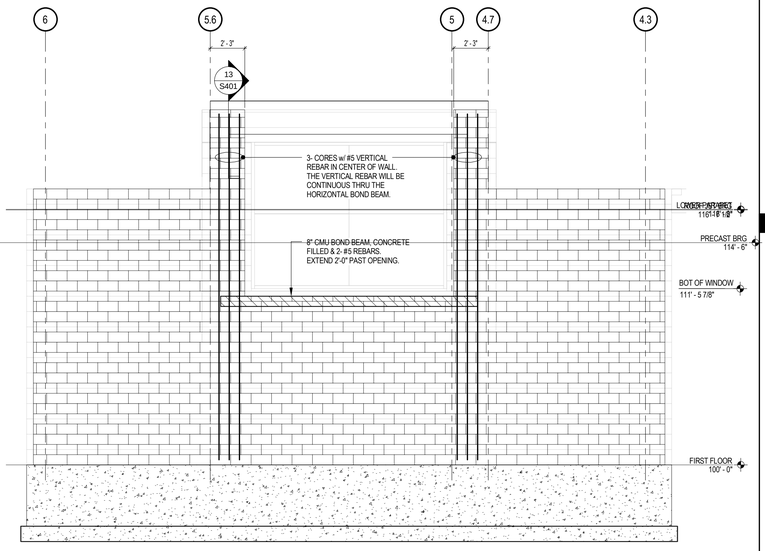
4 S410 **BRACE ELEVATION**
SCALE : 1/4" = 1'-0"



3 S410 **BRACE ELEVATION (GRID 6)**
SCALE : 1/4" = 1'-0"



2 S410 **BRACE ELEVATION**
SCALE : 1/4" = 1'-0"



1 S410 **NORTH WALL CMU BACKUP**
SCALE : 1/4" = 1'-0"

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01.12.15 CONSTRUCTION DOCUMENTS

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PE PROJECT: 136-42

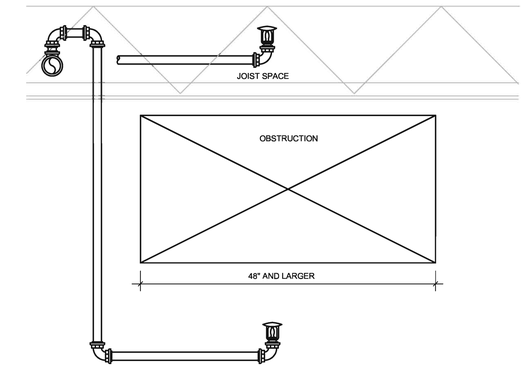
PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

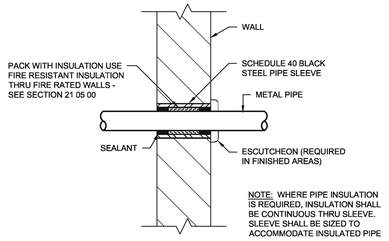
DRAWING
STRUCTURAL ELEVATIONS AND DETAILS

DATE
01.12.15



SPRINKLER DETAIL AT OBSTRUCTION IN AREAS WITHOUT CEILINGS

3 / F000 SCALE: NONE



SLEEVE THRU WALL

4 / F000 SCALE: NONE

FIRE PROTECTION NARRATIVE

1. THE FIRE PROTECTION SYSTEM IS TO BE DESIGNED TO THE CONTRACT SCOPE DOCUMENTS, NFPA 13 LATEST EDITION, AND THE LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS.
2. CONTRACTOR TO NOTE SPECIAL AESTHETIC CONDITION OF SPRINKLER INSTALLATION IN AREAS WITH NO CEILINGS.
3. SPRINKLER COVERAGE AND PIPING SHALL BE WET PIPE HYDRAULICALLY DESIGNED BY THE FIRE PROTECTION CONTRACTOR BASED ON NFPA 13 & 231, EXCEPT WHERE CLEAN AGENT SYSTEMS ARE DEFINED.

FIRE PROTECTION SYSTEM CLASSIFICATION

LIGHT HAZARD OCCUPANCY:

THE PROTECTION AREA ALLOTTED PER SPRINKLER SHOULD NOT EXCEED 200 SQUARE FEET WITH THE MAXIMUM DISTANCE BETWEEN LINES AND SPRINKLERS ON LINES BEING 15 FEET. THE SPRINKLERS DO NOT NEED TO BE STAGGERED.

AREAS OF LIGHT HAZARD SHALL INCLUDE: ALL GENERAL OFFICE SPACE, TOILET ROOMS, AND CORRIDORS.

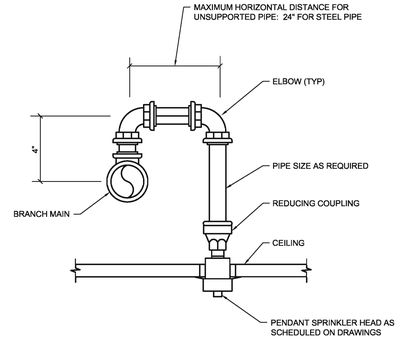
ORDINARY HAZARD OCCUPANCY:

THE PROTECTION AREA ALLOTTED PER SPRINKLER SHOULD NOT EXCEED 130 SQUARE FEET WITH THE MAXIMUM DISTANCE BETWEEN LINES AND SPRINKLERS ON LINES BEING 15 FEET. SPRINKLERS SHALL BE STAGGERED IF THE DISTANCE BETWEEN HEADS EXCEEDS 12 FEET.

AREAS OF ORDINARY HAZARD SHALL INCLUDE: MECHANICAL ROOMS, STORAGE, GARAGE, AUTOPSY AREAS, JANITOR CLOSETS, AND LAUNDRY ROOMS.

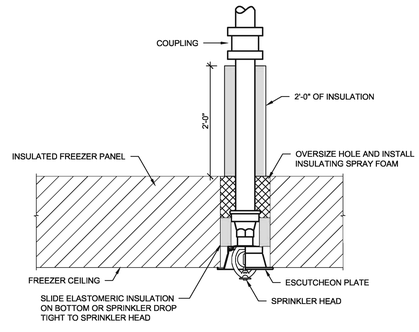
FIRE PROTECTION GENERAL NOTES:

1. VERIFY UTILITY INFORMATION WITH CAMPUS FIRE PROTECTION WATER SUPPLY.
2. DRAWINGS OF ALL OTHER TRADES SHALL BE REVIEWED. COORDINATE THE INSTALLATION AND SCHEDULING OF THE WORK WITH OTHER TRADES TO PREVENT INTERFERENCE WITH THEIR RESPECTIVE INSTALLATION.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL STRUCTURAL DIMENSIONS AND LAYOUT.
4. IT IS THE INTENT OF THESE DRAWINGS THAT A COMPLETE WORKING SYSTEM, PROPERLY TESTED, WILL BE OPERATIONAL UPON COMPLETION OF INSTALLATION.
5. CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID OPENING. THE ENGINEER RESERVES THE RIGHT TO FINAL INTERPRETATION.
6. REFER TO SYMBOL SCHEDULE FOR SYMBOLS USED.
7. ALL SPRINKLER PIPING SHALL BE LOCATED WITHIN THE JOIST SPACE UNLESS INDICATED OTHERWISE.
8. SPRINKLER/FIRE SUPPRESSION SYSTEM(S) SHALL BE DEFINED FOR INDIVIDUAL AREAS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES, EXPOSED STRUCTURE AND CEILING DEVICES. IN EXPOSED AREAS, COORDINATE PIPE ROUTING AND HEAD LAYOUT TO PROVIDE A CLEAN SYMMETRICAL INSTALLATION WITH DUCTWORK, LIGHTING, ETC.
9. INSTALL SPRINKLERS IN CENTER OF CEILING TILES WHERE APPLICABLE.



TYPICAL PENDANT SPRINKLER HEAD INSTALLATION

1 / F000 SCALE: NONE



TYPICAL FREEZER SPRINKLER HEAD INSTALLATION

2 / F000 SCALE: NONE

FIRE PROTECTION LEGEND

W	DOMESTIC WATER SERVICE
F	FIRE PROTECTION WATER SERVICE
SPR	SPRINKLER PIPING
	TEE (BRANCH TO SIDE)
	TEE (BRANCH DOWN)
	RISER UP
	RISER DOWN
	UNION
	FLANGE
	FLOW
	CHECK VALVE
	CAP
	SHUT-OFF VALVE
	PIPE STRAINER
FS	FLOW SWITCH
TS	TAMPER SWITCH
	OS&Y GATE VALVE
	FIRE DEPARTMENT CONNECTION (FDC)
	VALVE IN RISER
P	PRESSURE GAUGE
	STROBE
	STROBE/HORN
	MANUAL CONTROL STATION
	DCV - DOUBLE DETECTOR CHECK VALVE ASSEMBLY
	FLOOR DRAIN (FD)
#	CLEAN AGENT KEYED NOTE
#	NEW WORK KEYED NOTE
#	REVISION KEYED NOTE
X / FX	TAG FOR CONTINUATION MATCH POINTS

ABBREVIATIONS

AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE
CASC	CLEAN AGENT CONTRACTOR (ALSO REFERRED TO AS FIRE PROTECTION CONTRACTOR)
DCV	DOUBLE CHECK VALVE
EC	ELECTRICAL CONTRACTOR
F FPC	FIRE PROTECTION WATER SERVICE FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
HC	HVAC CONTRACTOR
PC	PLUMBING CONTRACTOR
SPR	WET SPRINKLER SYSTEM
W	DOMESTIC WATER SERVICE

HAZARD CLASSIFICATIONS:

- LIGHT HAZARD (NFPA 13) - MAXIMUM AREA PER ZONE = 52,000 SF (SPRINKLER HEADS: CONCEALED IN CEILINGS)
- ORDINARY HAZARD GROUP I (NFPA 13) - MAXIMUM AREA PER ZONE = 52,000 SF (SPRINKLER HEADS: UPRIGHTS IN EXPOSED STRUCTURE, CONCEALED IN CEILINGS)
- ORDINARY HAZARD GROUP II (NFPA 13) - MAXIMUM AREA PER ZONE = 52,000 SF (SPRINKLER HEADS: UPRIGHT IN EXPOSED STRUCTURE, SEMI-RECESSED IN CEILINGS)
- HFC-125 GASEOUS SYSTEM: REFER TO KEYED NOTES

FIRE PROTECTION SHEET INDEX

F000	FIRE PROTECTION SYMBOLS, ABBREVIATIONS, NOTES, AND DETAILS
F200	FIRE PROTECTION FIRST FLOOR PLAN

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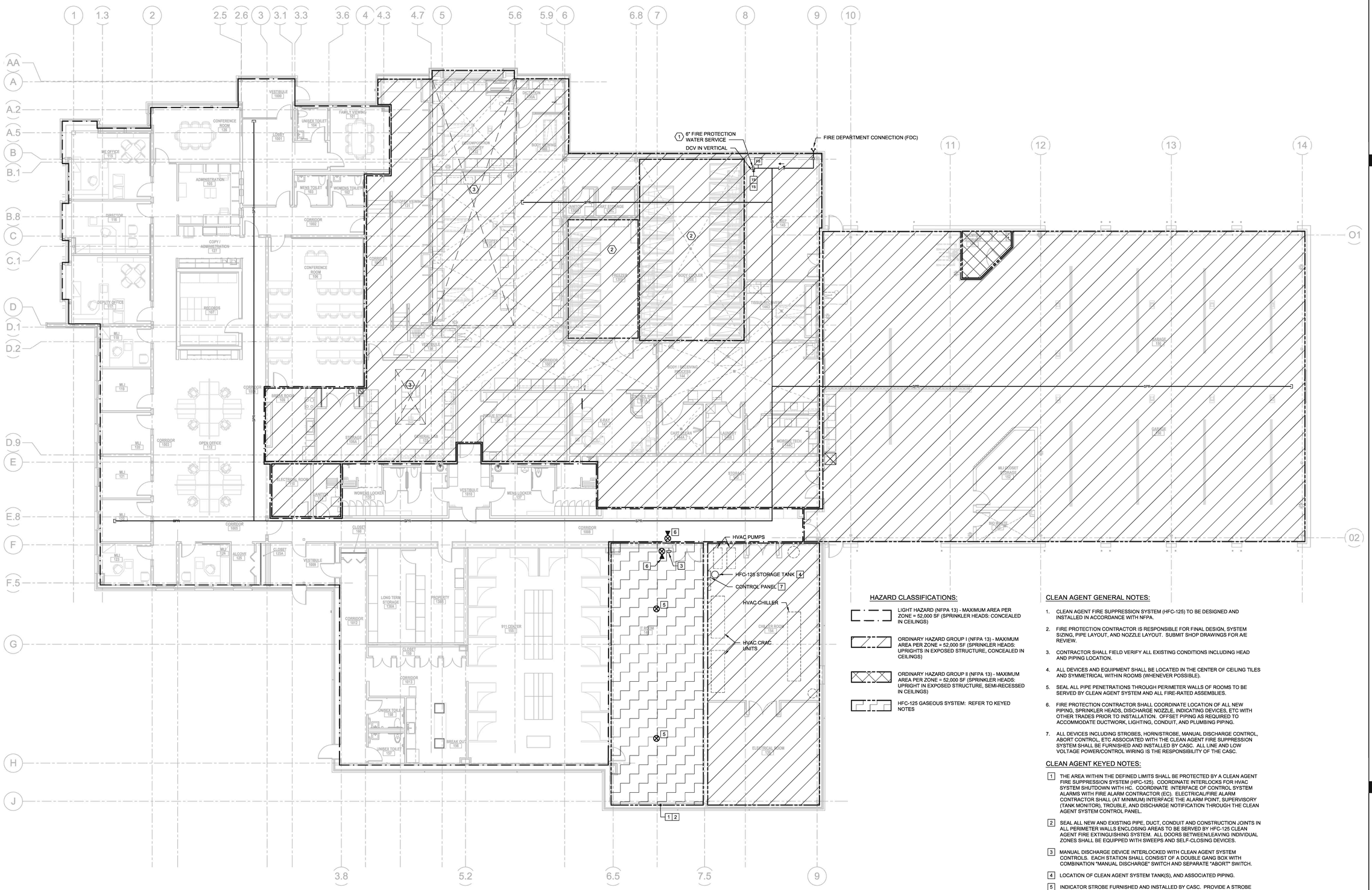

PLENUM NOTE:
RETURN AIR CEILING PLENUMS ARE UTILIZED ON THIS PROJECT IN THE OFFICE AREA OF THE FACILITY. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL ASCERTAIN THAT ALL ROOMS TO WHICH AIR IS SUPPLIED, HAVE RETURN AIR PATHS BACK TO AND THRU THE CEILING PLENUM. ANY SPACES OBSERVED WHICH DO NOT HAVE SUCH OPENINGS SHALL BE REPORTED TO A/E IMMEDIATELY FOR RESOLUTION. PIPING AND DUCTWORK SHALL BE INSTALLED IN SUCH A MANNER SO AS NOT TO BLOCK THE RETURN AIR PATH, RETURN AIR OPENINGS TO SHAFTS & INTAKE DUCTWORK. ALL MATERIALS IN PLENUMS SHALL BE PLENUM RATED NON-COMBUSTIBLE MATERIALS.

1 F200 FIRE PROTECTION FIRST FLOOR PLAN

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

NORTH

GENERAL NOTES:

1. REFER TO M400 SERIES DRAWINGS FOR BUILDING SECTIONS. FPC SHALL COORDINATE WITH ALL TRADES, AND ROUTE SPRINKLER PIPING IN JOIST/TRUSS SPACE WHEREVER POSSIBLE.
2. SPRINKLER HEADS SHALL NOT BE INSTALLED IN CEILING AREAS WHERE MECHANICAL EQUIPMENT AND/OR VALVE ACCESS IS REQUIRED. REFER TO OTHER TRADE'S DRAWINGS FOR EQUIPMENT AND VALVE LOCATIONS. COORDINATE WITH HC, PC, AND EC.

KEYED NOTES:

1. FPC SHALL CONNECT TO 6" FIRE PROTECTION WATER SERVICE PROVIDED BY PC.
2. PROVIDE DRY PENDANT SPRINKLER HEADS IN FREEZER AND COOLER.
3. PROVIDE SPRINKLER HEADS IN CLEARSTORY AREAS. COORDINATE LOCATION OF EXPOSED PIPING AND HEADS WITH A/E.

HAZARD CLASSIFICATIONS:

- LIGHT HAZARD (NFPA 13) - MAXIMUM AREA PER ZONE = 52,000 SF (SPRINKLER HEADS: CONCEALED IN CEILINGS)
- ORDINARY HAZARD GROUP I (NFPA 13) - MAXIMUM AREA PER ZONE = 52,000 SF (SPRINKLER HEADS: UPRIGHTS IN EXPOSED STRUCTURE, CONCEALED IN CEILINGS)
- ORDINARY HAZARD GROUP II (NFPA 13) - MAXIMUM AREA PER ZONE = 52,000 SF (SPRINKLER HEADS: UPRIGHT IN EXPOSED STRUCTURE, SEMI-RECESSED IN CEILINGS)
- HFC-125 GASEOUS SYSTEM: REFER TO KEYED NOTES

CLEAN AGENT GENERAL NOTES:

1. CLEAN AGENT FIRE SUPPRESSION SYSTEM (HFC-125) TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA.
2. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR FINAL DESIGN, SYSTEM SIZING, PIPE LAYOUT, AND NOZZLE LAYOUT. SUBMIT SHOP DRAWINGS FOR A/E REVIEW.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING HEAD AND PIPING LOCATION.
4. ALL DEVICES AND EQUIPMENT SHALL BE LOCATED IN THE CENTER OF CEILING TILES AND SYMMETRICAL WITHIN ROOMS (WHENEVER POSSIBLE).
5. SEAL ALL PIPE PENETRATIONS THROUGH PERIMETER WALLS OF ROOMS TO BE SERVED BY CLEAN AGENT SYSTEM AND ALL FIRE-RATED ASSEMBLIES.
6. FIRE PROTECTION CONTRACTOR SHALL COORDINATE LOCATION OF ALL NEW PIPING, SPRINKLER HEADS, DISCHARGE NOZZLE, INDICATING DEVICES, ETC WITH OTHER TRADES PRIOR TO INSTALLATION. OFFSET PIPING AS REQUIRED TO ACCOMMODATE DUCTWORK, LIGHTING, CONDUIT, AND PLUMBING PIPING.
7. ALL DEVICES INCLUDING STROBES, HORN/STROBE, MANUAL DISCHARGE CONTROL, ABORT CONTROL, ETC ASSOCIATED WITH THE CLEAN AGENT FIRE SUPPRESSION SYSTEM SHALL BE FURNISHED AND INSTALLED BY CASC. ALL LINE AND LOW VOLTAGE POWER/CONTROL WIRING IS THE RESPONSIBILITY OF THE CASC.

CLEAN AGENT KEYED NOTES:

1. THE AREA WITHIN THE DEFINED LIMITS SHALL BE PROTECTED BY A CLEAN AGENT FIRE SUPPRESSION SYSTEM (HFC-125). COORDINATE INTERLOCKS FOR HVAC SYSTEM SHUTDOWN WITH HC. COORDINATE INTERFACE OF CONTROL SYSTEM ALARMS WITH FIRE ALARM CONTRACTOR (EC). ELECTRICAL/FIRE ALARM CONTRACTOR SHALL (AT MINIMUM) INTERFACE THE ALARM POINT, SUPERVISORY (TANK MONITOR), TROUBLE, AND DISCHARGE NOTIFICATION THROUGH THE CLEAN AGENT SYSTEM CONTROL PANEL.
2. SEAL ALL NEW AND EXISTING PIPE, DUCT, CONDUIT AND CONSTRUCTION JOINTS IN ALL PERIMETER WALLS ENCLOSING AREAS TO BE SERVED BY HFC-125 CLEAN AGENT FIRE EXTINGUISHING SYSTEM. ALL DOORS BETWEEN/LEAVING INDIVIDUAL ZONES SHALL BE EQUIPPED WITH SWEEPS AND SELF-CLOSING DEVICES.
3. MANUAL DISCHARGE DEVICE INTERLOCKED WITH CLEAN AGENT SYSTEM CONTROLS. EACH STATION SHALL CONSIST OF A DOUBLE GANG BOX WITH COMBINATION "MANUAL DISCHARGE" SWITCH AND SEPARATE "ABORT" SWITCH.
4. LOCATION OF CLEAN AGENT SYSTEM TANK(S), AND ASSOCIATED PIPING.
5. INDICATOR STROBE FURNISHED AND INSTALLED BY CASC. PROVIDE A STROBE AND INTERLOCK WITH ASSOCIATED CONTROL PANEL. COORDINATE LOCATION WITH LIGHTS AND DIFFUSER LOCATIONS. CASC IS RESPONSIBLE FOR FINAL QUANTITIES AND LOCATION.
6. COMBINATION HORN/STROBE INDICATOR INTERLOCKED WITH ZONE CONTROL PANEL. HORN/STROBE SHALL ANNUNCIATE A DISCHARGE CONDITION IS PRESENT. PROVIDE SIGNAGE ADJACENT TO DOOR DEFINING THE INDICATION. HORN/STROBE STATION TO BE FURNISHED AND INSTALLED BY CASC.
7. CLEAN AGENT SYSTEM CONTROL PANEL SHALL HAVE INTERLOCKS DEFINED WITHIN SPECIFICATIONS TO FIRE ALARM SYSTEM. PROVIDE CONTACTOR FOR BUILDING AUTOMATION SYSTEM TO SHUT DOWN HVAC EQUIPMENT ON ALARM CONDITION.

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MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
FIRE PROTECTION FIRST FLOOR PLAN

DATE
01.12.15

F200

WATER CALCULATION WORKSHEET

WATER CALCULATION WORKSHEET FOR: DANE COUNTY MEDICAL EXAMINER BUILDING / TOWN OF MCFARLAND, WI
NAME/ADDRESS OF PROJECT

INFORMATION REQUIRED TO CALCULATE WATER SERVICE SIZE

1.	DEMAND OF BUILDING IN GALLONS PER MINUTE. WSFU's = 269.5 + 25 GPM	=	(GPM)	130
2.	DIFFERENCE IN ELEVATION FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE.		(feet)	0
3.	SIZE OF THE WATER METER. (WHEN APPLICABLE)		(inches)	3
4.	DEVELOPED LENGTH FROM MAIN OR EXTERNAL PRESSURE TANK TO BUILDING CONTROL VALVE.		(feet)	700
5.	LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK.		(psig)	70

CALCULATE WATER SERVICE PRESSURE LOSS

6. LOW PRESSURE AT MAIN IN STREET OR EXTERNAL PRESSURE TANK. (VALUE OF # 5 ABOVE) — 70.00

7. WATER SERVICE DIAMETER IS 4" MATERIAL IS DUCTILE IRON PRESSURE LOSS
PER 100 FT = 1.1 PSI X 7.0 (DECIMAL EQUIVALENT OF SERVICE LENGTH, I.E.; 65FT = .65) — 7.70
(SUBTRACT LINE 7. FROM LINE 6.) SUBTOTAL — 62.30

8. DETERMINE PRESSURE GAIN OR LOSS DUE TO ELEVATION,
(MULTIPLY THE VALUE OF # 2 ABOVE BY .434) VALUE OF "B" — 0.00

9. AVAILABLE PRESSURE AFTER THE BLDG. CONTROL VALVE.
(SUBTRACT OR ADD LINE 8. ENTER IN "B".) SUBTOTAL — 62.30

CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")

B. AVAILABLE PRESSURE AFTER THE BLDG. CONTROL VALVE. (FROM "9" ABOVE) VALUE OF "B" — 62.30

C. PRESSURE LOSS OF WATER METER (WHEN METER IS REQUIRED OR INSTALLED) VALUE OF "C" — 3
(SUBTRACT LINE C. FROM LINE B.) SUBTOTAL — 59.30

D. PRESSURE AT CONTROLLING FIXTURE. VALUE OF "D" — 30.00
(CONTROLLING FIXTURE IS EMERGENCY SHOWER/EYEWASH)
(SUBTRACT THE VALUE OF D.) SUBTOTAL — 29.30

E. DIFFERENCE IN ELEVATION BETWEEN THE BUILDING CONTROL VALVE
AND THE CONTROLLING FIXTURE IN FEET 0 X .434 PSI/FT. VALUE OF "E" — 0.00
(SUBTRACT THE VALUE OF E.) SUBTOTAL — 29.30

F. PRESSURE LOSS DUE TO WATER TREATMENT DEVICES, INSTANTANEOUS WATER
HEATERS AND BACKFLOW PREVENTERS WHICH SERVE THE CONTROLLING FIXTURE
(PRESSURE LOSS DUE TO HEAT EXCHANGER) VALUE OF "F" — 10
(SUBTRACT THE VALUE OF F.) SUBTOTAL — 19.30

G. DEVELOPED LENGTH FROM BUILDING CONTROL VALVE TO CONTROLLING
FIXTURE IN FEET 250 X 1.5 VALUE OF "G" — 375.00
(DIVIDE BY THE VALUE OF G.) SUBTOTAL — 0.0515
(WATER DISTRIBUTION PIPING MATERIAL IS TYPE 'L' COPPER)
MULTIPLY BY — 100

A. PRESSURE AVAILABLE FOR UNIFORM LOSS VALUE OF "A" — 5.15

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

PLUMBING LEGEND

	SANITARY DRAIN, WASTE OR SEWER (SAN)
ST	STORM DRAIN CONDUCTOR OR SEWER
OD	OVERFLOW DRAIN
PW	PROCESS WASTE
	VENT (V)
PV	PROCESS WASTE VENT
CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
NPC	NON-POTABLE COLD WATER
T	TEMPERED WATER
CS	COLD SOFT WATER
G	NATURAL GAS
W	DOMESTIC WATER SERVICE
F	FIRE PROTECTION WATER SERVICE
	TEE (BRANCH TO SIDE)
	TEE (BRANCH DOWN)
	RISER UP
	RISER DOWN
	CLEANOUT (CO)
OR	WALL CLEANOUT (WCO) FLOOR CLEANOUT (FCO) YARD CLEANOUT (YCO)
	DOWNSPOUT NOZZLE (DSN)
	UNION
	FLANGE
	FLOW
	CHECK VALVE
	PRESSURE REGULATING VALVE (PRV)
S	SOLENOID VALVE
	HOSE BIBB (HB) OR WALL HYDRANT (WH)
	CAP
	BALANCING VALVE
	SHUT-OFF VALVE
	PIPE STRAINER
	FIXTURE STOP
	VALVE IN RISER
	THERMOMETER
P	PRESSURE GAUGE
	WATER HAMMER ARRESTOR
	RELIEF VALVE
	RPBP - REDUCED PRESSURE ZONE BACKFLOW PREVENTER
	FLOOR DRAIN (FD)
	HUB DRAIN (HD)
	ROOF DRAIN (RD) OR OVERFLOW ROOF DRAIN (ORD)
	TRENCH DRAIN (TD)
#	NEW WORK KEYED NOTE
A	REVISION KEYED NOTE
X / PX	TAG FOR CONTINUATION MATCH POINTS

ABBREVIATIONS

A	COMPRESSED AIR
AC	AIR COMPRESSOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AT	AUTOPSY TABLE
CB	CATCH BASIN
CO	CLEANOUT
CP	CIRCULATION PUMP
CS	COLD SOFT WATER/CUP SINK
CW	COLD WATER
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNITS
DSN	DOWNSPOUT NOZZLE
DW	DISHWASHER
E	EXISTING
EC	ELECTRICAL CONTRACTOR
EEW	EMERGENCY EYEWASH
ESEW	EMERGENCY SHOWER/EYEWASH
F	FIRE PROTECTION WATER SERVICE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FH	FUME HOOD
FPC	FIRE PROTECTION CONTRACTOR
FS	FAUCET STATION
G	NATURAL GAS
GC	GENERAL CONTRACTOR
HB	HOSE BIBB
HC	HVAC CONTRACTOR
HD	HUB DRAIN
HS	HOSE STATION
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
HX	HEAT EXCHANGER
IE	INVERT ELEVATION
L	LAVATORY
LS	LAB SINK
LT	LAUNDRY TRAY
MB	MOP BASIN
MH	MANHOLE
NPC	NON-POTABLE COLD WATER
OD	OVERFLOW DRAIN
ORD	OVERFLOW ROOF DRAIN
P	PUMP
PC	PLUMBING CONTRACTOR
PRV	PRESSURE REGULATING VALVE
PV	PROCESS WASTE VENT
PW	PROCESS WASTE
RPBP	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
S	SINK
SAN	SANITARY
SH	SHOWER
SPR	SPRINKLER PIPING
ST	STORM
T	TEMPERED WATER
TD	TRENCH DRAIN
TMV	THERMOSTATIC MIXING VALVE
UR	URINAL
V	VENT
VTR	VENT THRU ROOF
W	DOMESTIC WATER SERVICE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WM	WASHING MACHINE WALL BOX
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WHR	WATER HEATER
WSFU	WATER SUPPLY FIXTURE UNITS
YCO	YARD CLEANOUT

PLUMBING SHEET INDEX

P000	PLUMBING SYMBOLS, ABBREVIATIONS, AND CALCULATIONS
P100	PLUMBING UNDERFLOOR PLAN
P200	PLUMBING FIRST FLOOR PLAN
P400	PLUMBING DETAILS
P700	SANITARY WASTE AND VENT ISOMETRICS - PLUMBING
P701	PROCESS WASTE AND VENT ISOMETRICS - PLUMBING
P702	DOMESTIC WATER ISOMETRICS - PLUMBING
P900	PLUMBING SCHEDULES

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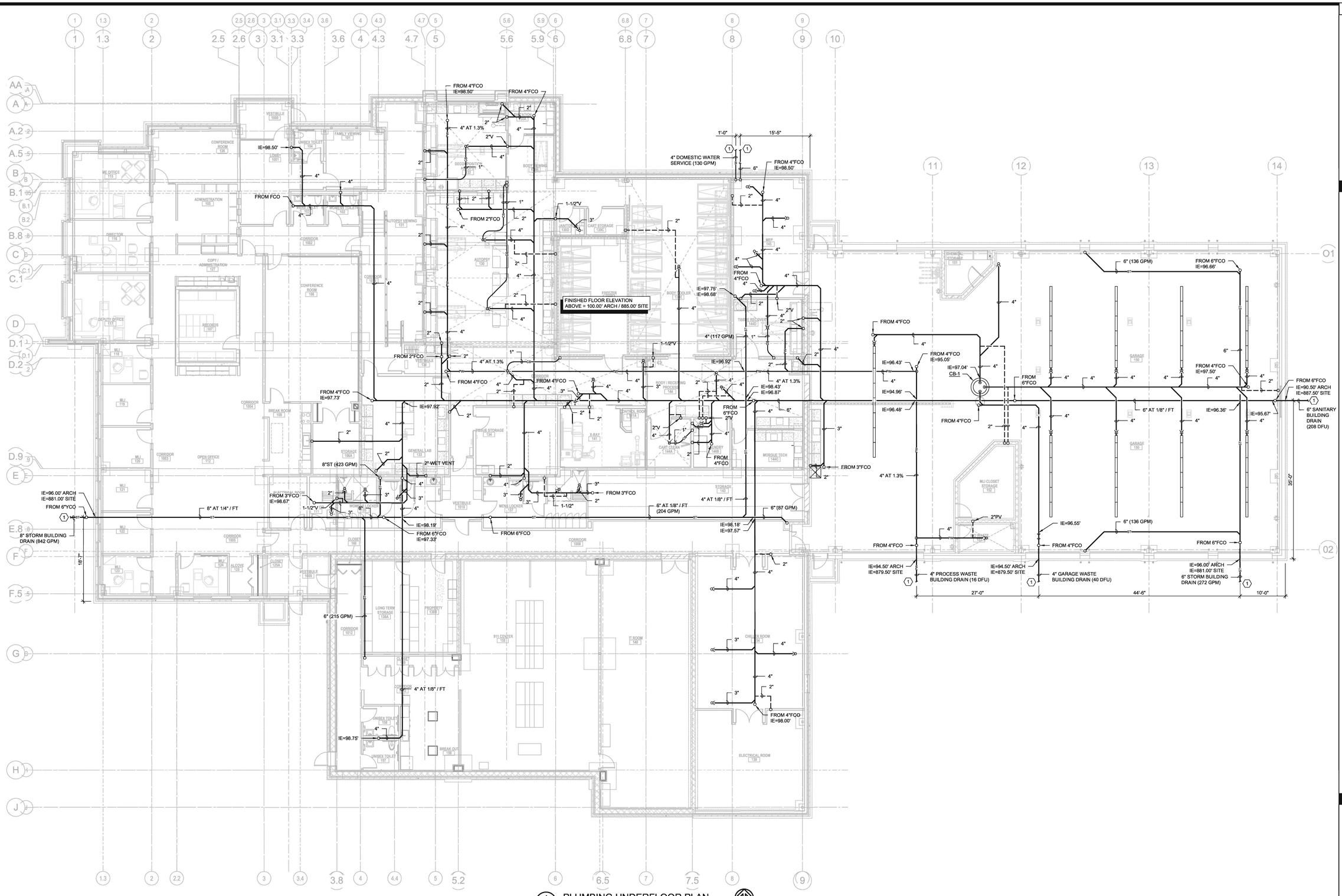

1 P100 PLUMBING UNDERFLOOR PLAN

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

NORTH

GENERAL NOTES:

1. ALL PROCESS WASTE (PW) PIPING UP TO 2" SHALL BE PITCHED AT 1/4" PER FOOT SLOPE, AND PW PIPING 3" AND OVER SHALL BE PITCHED AT 1.3% SLOPE.

KEYED NOTES:

(1) PC SHALL ROUTE SERVICE TO 5'-0" OUTSIDE BUILDING STRUCTURE, CONTINUATION BY SITE UTILITY CONTRACTOR. COORDINATE EXACT LOCATION AND DEPTH WITH SITE UTILITY CONTRACTOR.

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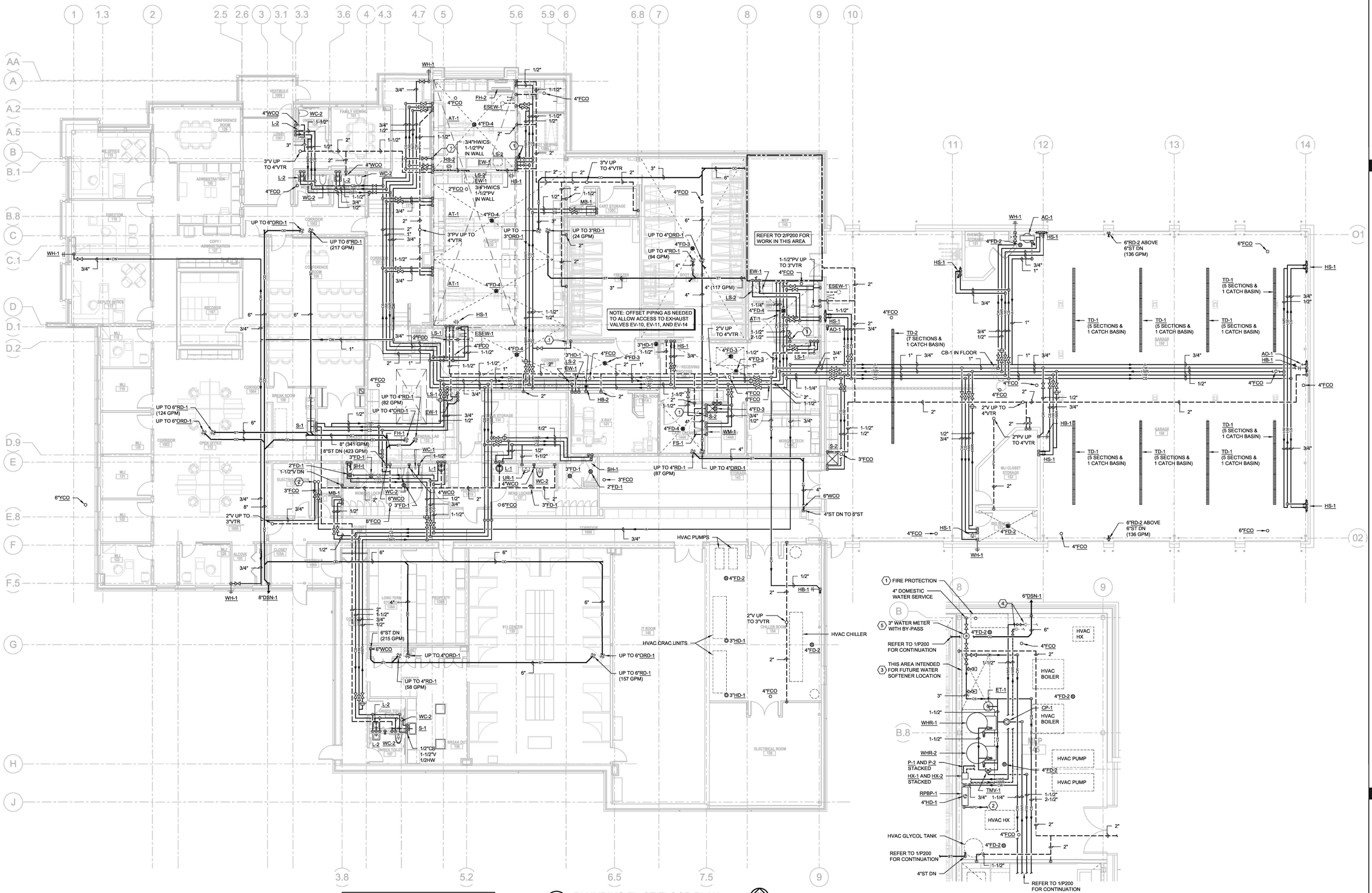

PLENUM NOTE:
RETURN AIR CEILING PLENUMS ARE UTILIZED ON THIS PROJECT IN THE OFFICE AREA OF THE FACILITY. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL ASCERTAIN THAT ALL ROOMS TO WHICH AIR IS SUPPLIED, HAVE RETURN AIR PATHS BACK TO AND THRU THE CEILING PLENUM. ANY SPACES OBSERVED WHICH DO NOT HAVE SUCH OPENINGS SHALL BE REPORTED TO AJE IMMEDIATELY FOR RESOLUTION. PIPING AND DUCTWORK SHALL BE INSTALLED IN SUCH A MANNER SO AS NOT TO BLOCK THE RETURN AIR PATH. RETURN AIR OPENINGS TO SHAFTS & INTAKE DUCTWORK. ALL MATERIALS IN PLENUMS SHALL BE PLENUM RATED NON-COMBUSTIBLE MATERIALS.

1 P200 PLUMBING FIRST FLOOR PLAN

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

NORTH

GENERAL NOTES:

1. REFER TO M400 SERIES DRAWINGS FOR BUILDING SECTIONS. COORDINATE ALL PLUMBING PIPING WITH OTHER TRADES.
2. REFER TO LABORATORY DRAWINGS AND SPECIFICATIONS FOR PLUMBING CONNECTIONS TO LAB AND/OR AUTOPSY EQUIPMENT AND FIXTURES. ALL PLUMBING RELATED CONNECTIONS BY PC.

KEYED NOTES:

1. FLUSH VALVE LOCATION FOR FLUSHING FLOOR DRAIN FD-4.
2. INSTALL 3/4"CW AND 3/4"A UP TO PENTHOUSE, PENETRATE EXTERIOR WALL OF PENTHOUSE, AND INSTALL WH-1 AND AO-1 THRU WALL FOR EQUIPMENT MAINTENANCE ON ROOF.

2 P200 ENLARGED MECHAINCAL ROOM - PLUMBING

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

NORTH

KEYED NOTES:

1. PROVIDE 6" BLIND FLANGE FOR FIRE PROTECTION SERVICE. CONTINUATION BY FPC.
2. PROVIDE 3/4" NPC FOR BOILER MAKE-UP WATER. COORDINATE WITH HC.
3. DOMESTIC WATER CAMPUS SYSTEM SOFTENED BY COUNTY INFRASTRUCTURE PROJECT. THIS AREA IS DESIGNATED FOR FUTURE SOFTENERS IN THE EVENT THE CAMPUS WATER SYSTEM IS NO LONGER SOFTENED.
4. PC SHALL CONNECT TO 1-1/2" TAPS ON HEATING HOT WATER SUPPLY AND RETURN PIPES (HWS AND HWR). HWS/HWR MAINS AND TAPS INSTALLED BY HC, COORDINATE CONNECTIONS WITH HC.
5. PC SHALL PROVIDE 3" BADGER RECORDALL WATER METER FOR BUILDING DOMESTIC WATER SERVICE AND TIE IN TO BUILDING AUTOMATION SYSTEM. COORDINATE WITH HC/BAS CONTRACTOR.

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PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

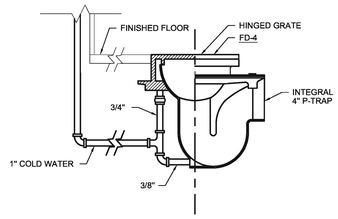
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
PLUMBING FIRST FLOOR PLAN

DATE
01.12.15

P200

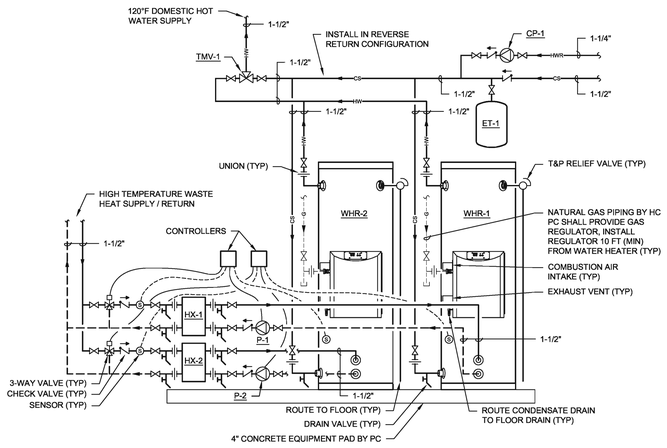


NOTE:

1. VERIFY CONNECTION REQUIREMENTS AND INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

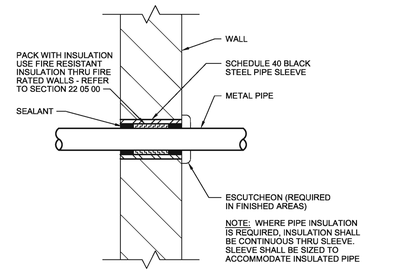
8 P400 FLUSHING RIM FLOOR DRAIN DETAIL

SCALE: NONE



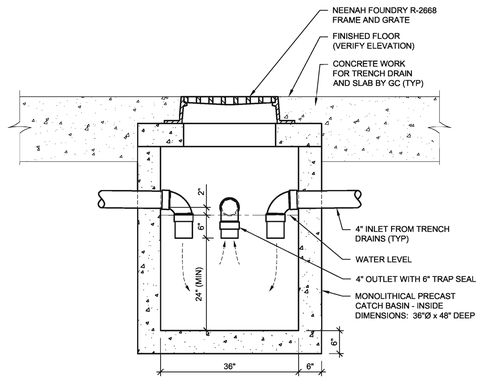
5 P400 DOMESTIC WATER HEATING DETAIL

SCALE: NONE



1 P400 SLEEVE THRU WALL DETAIL

SCALE: NONE

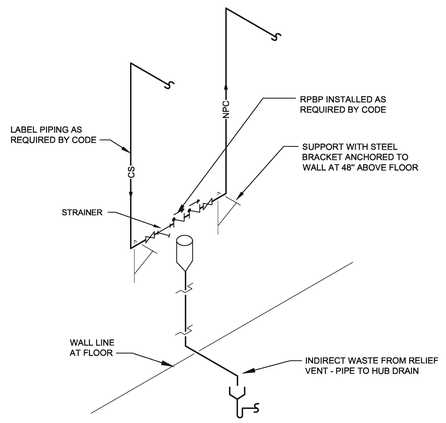


NOTES:

1. PRECAST PIPE PENETRATIONS SHALL BE WATERTIGHT BY USING MORTAR OR NEOPRENE GASKETS.

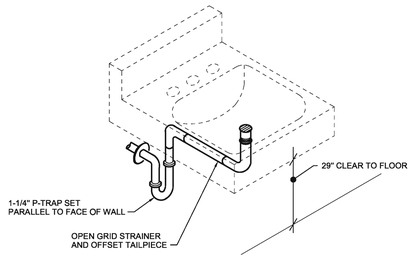
9 P400 CATCH BASIN SECTION (CB-1)

SCALE: NONE



6 P400 REDUCED PRESSURE BACKFLOW PREVENTER DETAIL

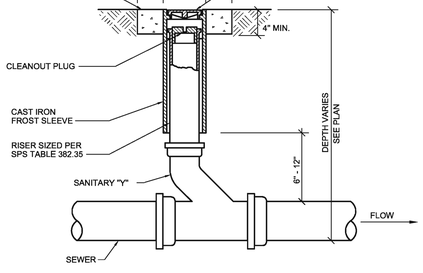
SCALE: NONE



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

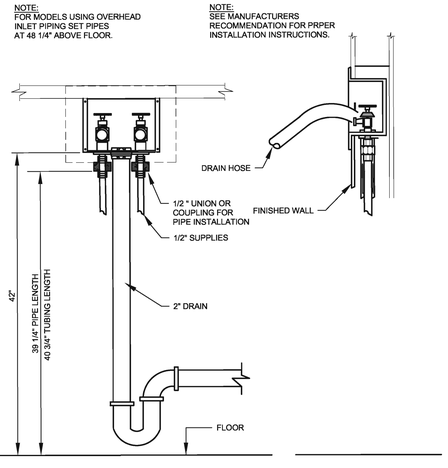
2 P400 BARRIER FREE LAVATORY DETAIL

SCALE: NONE



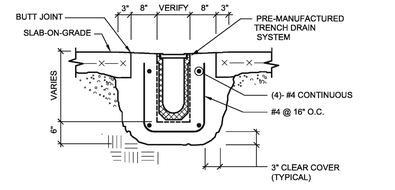
3 P400 YARD CLEANOUT (YCO) DETAIL

SCALE: NONE



7 P400 LAUNDRY WALL BOX DETAIL

SCALE: NONE



4 P400 TRENCH DRAIN DETAIL

SCALE: NONE (PRE-MANUFACTURED SYSTEM)

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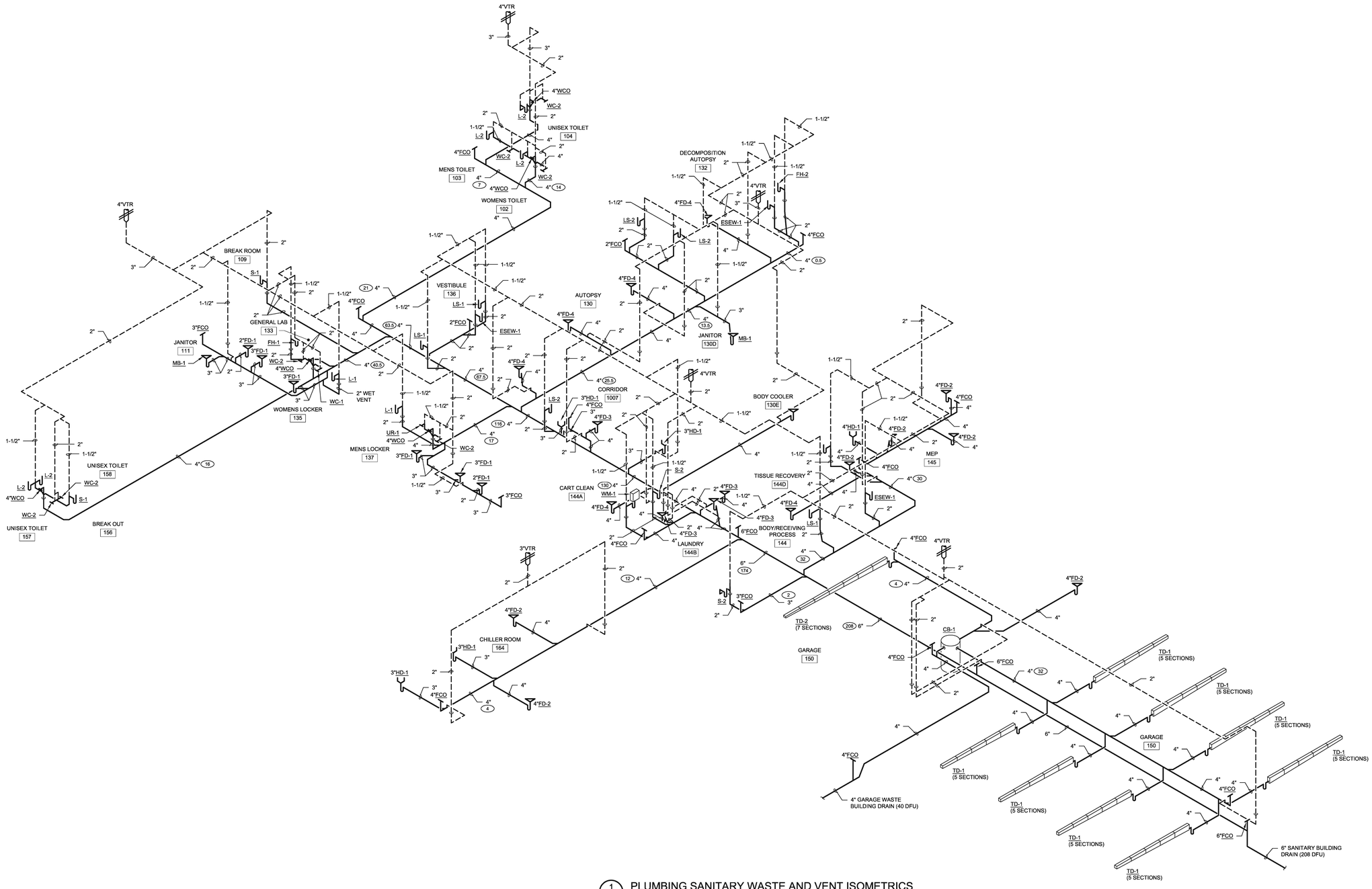

1 P700 PLUMBING SANITARY WASTE AND VENT ISOMETRICS

SCALE: NONE

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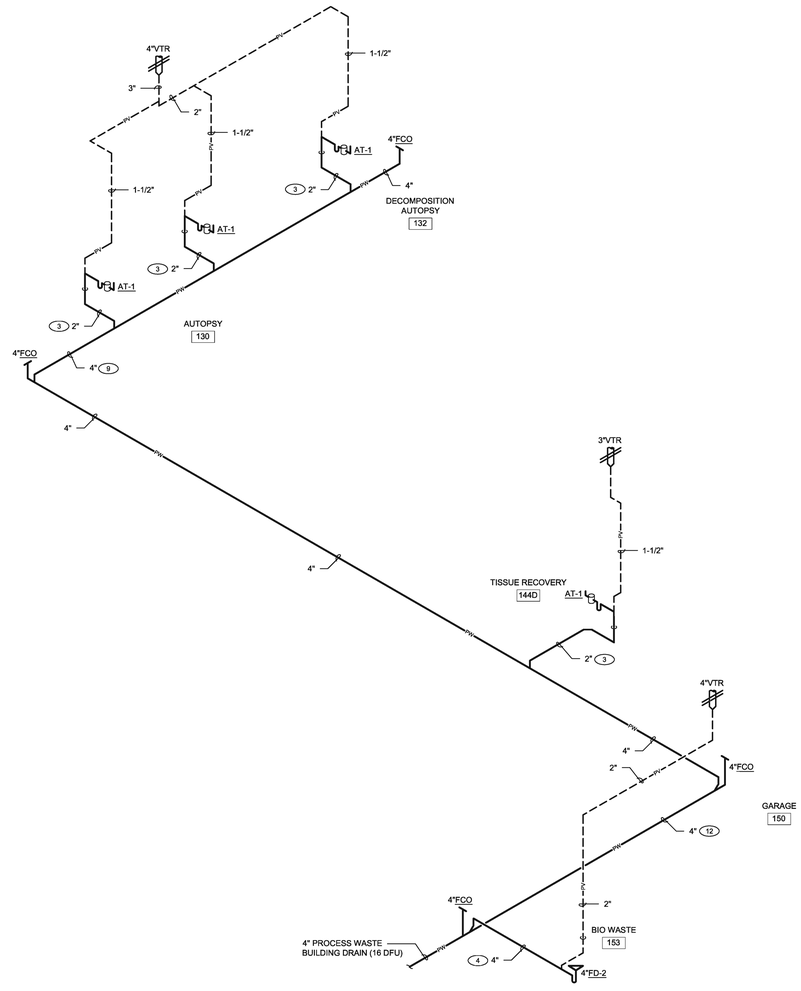
P700



1 P701 PLUMBING PROCESS WASTE ISOMETRICS

SCALE: NONE

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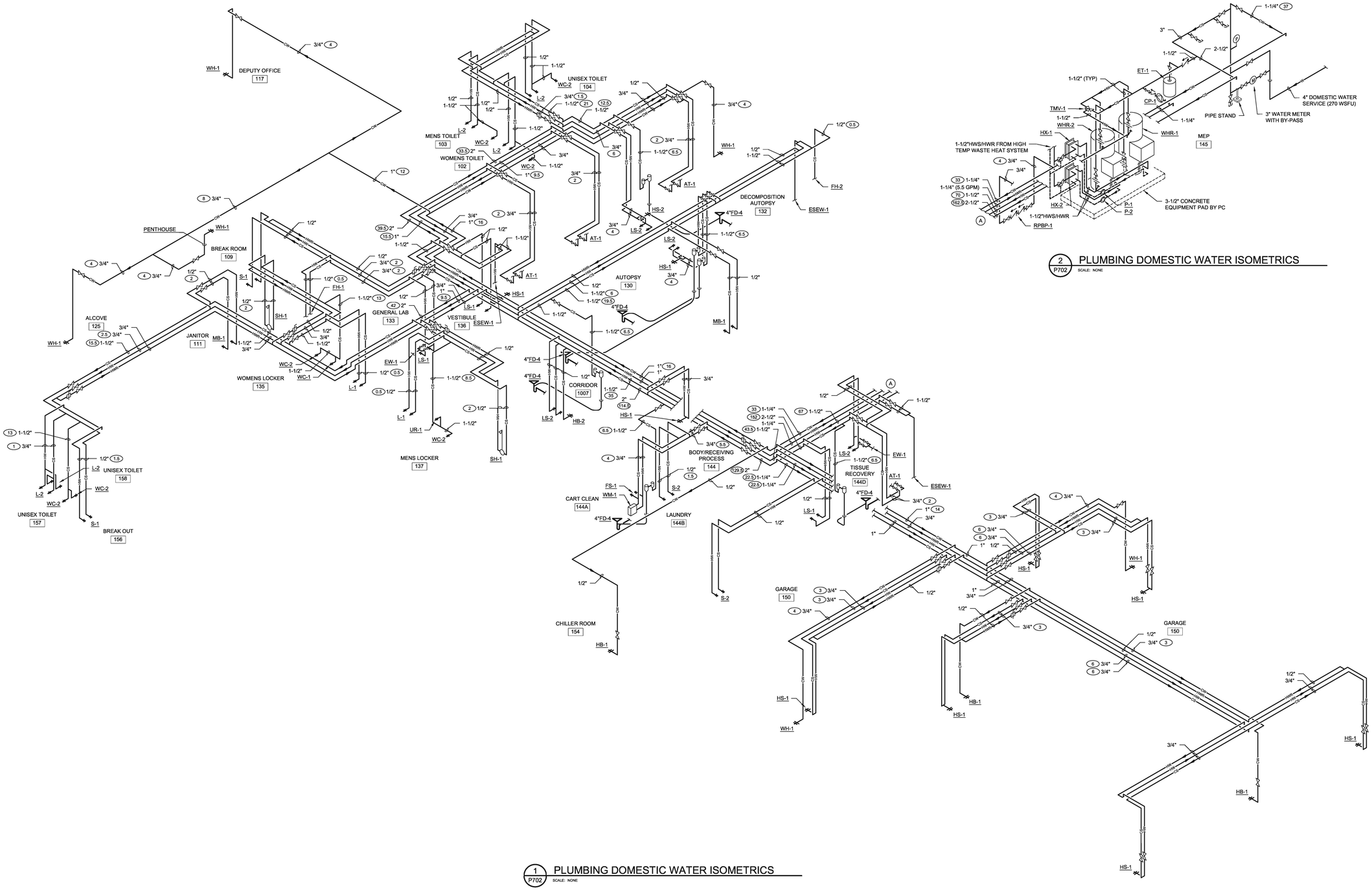

1 P702 PLUMBING DOMESTIC WATER ISOMETRICS

SCALE: NONE

2 P702 PLUMBING DOMESTIC WATER ISOMETRICS

SCALE: NONE

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GAS WATER HEATERS SCHEDULE

ID	MANUFACTURER MODEL #	GAS CFH	GAS PRESS IN WC	RECOVERY		TANK CAP GAL	DETAIL/ SHEET	DESCRIPTION/REMARKS
				GPH	RISE °F			
WHR-1 & WHR-2	PHOENIX PH199-119SNHX	40 - 199	12	294	80	119	5/P400	TANK TYPE NATURAL GAS FIRED WATER HEATER, 96% EFFICIENT,SEALED COMBUSTION, MODULATING 5:1 TURNDOWN, 3" INTAKE AND VENT, 316L STAINLESS STEEL TANK, LCD DISPLAY, AUXILIARY INLET AND OUTLET FOR CONNECTIONS FROM HEAT EXCHANGER, LESS INTERNAL HEAT EXCHANGER COIL. INCLUDE 3" PVC CONCENTRIC VENT TERMINATION KIT.

HEAT EXCHANGER SCHEDULE

ID	MANUFACTURER MODEL #	MBH	HOT SIDE					COLD SIDE					FOULING FACTOR	DETAIL/ SHEET	DESCRIPTION/REMARKS
			IN TEMP	OUT TEMP	GPM IN	GPM OUT	PRESS DROP	IN TEMP	OUT TEMP	GPM IN	GPM OUT	PRESS DROP			
HX-1 & HX-2	AIC LC110DW-20	300	200°F	170°F	22.99	22.71	3.67	72.0	97.0	23.98	24.05	3.91	0.0065	5/P400	DOUBLE WALL PLATE AND FRAME HEAT EXCHANGER, BRAISED BRONZE CONNECTIONS.

EXPANSION TANK SCHEDULE

ID	MANUFACTURER MODEL #	SIZE		SYSTEM	VOLUME GALLON	PRESSURE RATING PSI	DETAIL/ SHEET	DESCRIPTION/REMARKS
		DIA	HEIGHT					
ET-1	AMTROL ST-20VC	12"	19"	DOMESTIC	8	150	5/P400	STEEL THERMAL EXPANSION TANK, RATED FOR DOMESTIC WATER, HEAVY DUTY BUTYL NSF/ANSI 61 DIAPHRAGM, POLYPROPYLENE LINER, PRECHARGED, STAINLESS STEEL CONNECTION, WITH AIR VALVE.

PUMPS SCHEDULE

ID	MANUFACTURER MODEL #	ELECTRICAL				VFD	DISCHARGE		DETAIL/ SHEET	DESCRIPTION/REMARKS
		HP	AMPS	VOLTS	PHASE		GPM	HD FT		
CP-1	GRUNDFOS UPS15-55SFC	0.12	0.75	115	1	NO	5.5	13	5/P400	BRONZE BODY, CERAMIC SHAFT, STAINLESS STEEL ROTOR CAN AND BEARING PLATE, BRONZE BODY, THREE SPEEDS.
P-1	GRUNDFOS UPS26-99BFC	1/6	1.8	115	1	NO	24	9	5/P400	BRONZE BODY, CERAMIC SHAFT, STAINLESS STEEL ROTOR CAN AND BEARING PLATE, BRONZE BODY, THREE SPEEDS.
P-2	GRUNDFOS UPS26-99BFC	1/6	1.8	115	1	NO	24	9	5/P400	BRONZE BODY, CERAMIC SHAFT, STAINLESS STEEL ROTOR CAN AND BEARING PLATE, BRONZE BODY, THREE SPEEDS.

REDUCED PRESSURE BACKFLOW PREVENTER SCHEDULE

ID	MANUFACTURER MODEL #	SIZE	GPM	PRESS DROP	SYSTEM	DETAIL/SHEET	DESCRIPTION/REMARKS
RPBP-1	WATTS 009QT-S	3/4"	12	13	HVAC MAKE-UP	6/P400	BRONZE BODY, SILICONE RUBBER DISC IN BOTH CHECK SEATS, STAINLESS STEEL RELIEF VALVE SEATS, INCLUDE AIR GAP FITTING.

PLUMBING DRAIN & CLEANOUT SCHEDULE

ID	FIXTURE	WASTE			WATER		DETAIL/ SHEET	DESCRIPTION/REMARKS
		DFU	TRAP	VENT	WSFU	SIZE		
CB-1	CATCH BASIN	4	---	2	---	---	9/P400	FIXTURE: PRECAST CATCH BASIN WITH FRAME AND GRATE, MONILITHICALLY FACTORY FORMED BASIN, 6" CONCRETE WALLS, GASKETED PIPE PENETRATIONS. REFER TO DETAIL.
FD-1	FLOOR DRAIN	2 3	2" 3"	1-1/2" 1-1/2"	---	---	---	FIXTURE: ZURN ZN415B, CAST IRON BODY, 6" DIAMETER NICKEL BRONZE "TYPE B" STRAINER, COMBINATION INVERTIBLE MEMBRANE CLAMP, AND ADJUSTABLE COLLAR.
FD-2	FLOOR DRAIN	4	4"	2"	---	---	---	FIXTURE: ZURN ZN508, CAST IRON BODY, 9" DIAMETER NICKEL BRONZE TOP, SEEPAGE PAN, COMBINATION MEMBRANE FLASHING CLAMP & FRAME, AND HEAVY DUTY DEEP FLANGE SLOTTED GRATE.
FD-3	FLOOR DRAIN (AUTOPSY AND LAB)	4	4"	2"	---	---	---	FIXTURE: ZURN ZN415B-AR, ACID RESISTING COATED CAST IRON BODY, 6" DIAMETER NICKEL BRONZE "TYPE B" STRAINER, COMBINATION INVERTIBLE MEMBRANE CLAMP, AND ADJUSTABLE COLLAR.
FD-4	FLUSHING FLOOR DRAIN (AUTOPSY AND LAB)	6	4"	2"	6.5	1-1/2"	8/P400	FIXTURE: JR SMITH 2505T, ACID RESISTING COATED CAST IRON BODY, 11-1/2" DIAMETER NICKEL BRONZE STRAINER, FLASHING CLAMP, HINGED PERFORATED GRATE, INTEGRAL P-TRAP, FLUSHING CONNECTIONS ON DRAIN BODY AND P-TRAP. FLUSH VALVE: SLOAN 152-1.6-WB CONCEALED FLUSHOMETER, DIAPHRAGM, 1" ANGLE STOP, VACUUM BREAKER, PUSH BUTTON OPERATION. INCLUDE SLOAN WB-1-A WALL BOX, 13-1/2"x13-1/2" FOR 12"x12" WALL OPENING, 16 GAUGE BRUSHED STAINLESS STEEL.
TD-1	TRENCH DRAIN	4	4"	2"	---	---	4/P400	FIXTURE: ACO POWERDRAIN S100K TRENCH DRAIN SYSTEM, 4" INTERNAL WIDTH, ONE (1) IN-LINE CATCH BASIN 901D AND FIVE (5) ONE METER LENGTH SECTIONS STARTING AT SK1-6 THRU SK1-10, NO NEUTRAL SECTIONS, 4" ROUND SIDE OUTLET, LOWEST BOTTOM INVERT 5.91, INTEGRAL GALVANIZED FRAME, NO CROSS BARS, CONTINUOUS SLOPE SYSTEM AT 0.5%, INCLUDE END CAPS AT BEGINNING AND END OF TRENCH RUN, IRON SLOTTED LOCKING GRATE, PROVIDE INSTALLATION DEVICES FOR CHANNELS. REFER TO FLOOR PLANS FOR HIGH POINTS AND LENGTHS OF TRENCH RUN.
TD-2	TRENCH DRAIN	4	4"	2"	---	---	4/P400	FIXTURE: ACO POWERDRAIN S100K TRENCH DRAIN SYSTEM, 4" INTERNAL WIDTH, ONE (1) IN-LINE CATCH BASIN 901D AND SEVEN (7) ONE METER LENGTH SECTIONS STARTING AT SK1-4 THRU SK1-10, NO NEUTRAL SECTIONS, 4" ROUND SIDE OUTLET, LOWEST BOTTOM INVERT 5.91, INTEGRAL GALVANIZED FRAME, NO CROSS BARS, CONTINUOUS SLOPE SYSTEM AT 0.5%, INCLUDE END CAPS AT BEGINNING AND END OF TRENCH RUN, IRON SLOTTED LOCKING GRATE, PROVIDE INSTALLATION DEVICES FOR CHANNELS. REFER TO FLOOR PLANS FOR HIGH POINTS AND LENGTHS OF TRENCH RUN.
HD-1	HUB DRAIN - AT GRADE	6	4"	2"	---	---	---	EXTEND HUB 2" AFF (MIN), INSTALL PIPE INCREASER ONE PIPE SIZE LARGER.
DSN-1	DOWNSPOUT NOZZLE	---	---	---	---	---	---	FIXTURE: ZURN ZANB-199 DOWNSPOUT NOZZLE, ALL NICKEL BRONZE BODY, THREADED INLET, DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE.
ORD-1	OVERFLOW ROOF DRAIN	---	---	---	---	---	---	FIXTURE: ZURN ZC100-C-EA-R-W2 OVERFLOW ROOF DRAIN, CAST IRON BODY, 15" DIA, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, UNDERDECK CLAMP, ADJUSTABLE EXTENSION, ROOF SUMP RECEIVER, CAST IRON STRAINER, AND 2" INTERNAL WATER DAM.
RD-1	ROOF DRAIN	---	---	---	---	---	---	FIXTURE: ZURN ZC100-C-EA-R ROOF DRAIN, CAST IRON BODY, 15" DIA, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, UNDERDECK CLAMP, ADJUSTABLE EXTENSION, ROOF SUMP RECEIVER, AND CAST IRON STRAINER.
RD-2	ROOF DRAIN	---	---	---	---	---	---	FIXTURE: ZURN ZC125-C-R ROOF DRAIN, CAST IRON BODY, 8-3/8" DIA, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, UNDERDECK CLAMP, ROOF SUMP RECEIVER, AND CAST IRON STRAINER.
FCO	FLOOR CLEANOUT	---	---	---	---	---	---	FINISHED AREAS WITH HARD FLOORS: ZURN ZN1400-BP, CAST IRON, ADJUSTABLE FLOOR CLEANOUT WITH NICKEL BRONZE TOP & BRONZE PLUG. FINISHED AREAS WITH CARPETED FLOORS: ZURN ZN1400-BP-CM, CAST IRON, ADJUSTABLE FLOOR CLEANOUT WITH NICKEL BRONZE TOP & BRONZE PLUG, WITH CARPET MARKER. UNFINISHED AREAS: ZURN ZN1400-BP, HEAVY DUTY, CAST IRON, ADJUSTABLE FLOOR CLEANOUT WITH NICKEL BRONZE TOP AND BRONZE PLUG.
WCO	WALL CLEANOUT	---	---	---	---	---	---	FIXTURE: ZURN ZS1468, POLISHED STAINLESS STEEL, ROUND ACCESS COVER, SECURING SCREW & BRONZE RAISED HEX HEAD PLUG. VERIFY LENGTH OF SCREW REQUIRED WITH WALL CONSTRUCTION.
YCO	YARD CLEANOUT	---	---	---	---	---	3/P400	FIXTURE: PLUMBING CREATIONS CI-48-8, PIPE RISER WITH FROST SLEEVE EXTENDING 5 FEET BELOW FINISHED GRADE.

AIR COMPRESSOR SCHEDULE

ID	MANUFACTURER MODEL #	ELECTRICAL				TOTAL (SCFM)	PRESS PSI	COOLING TYPE	RECEIVER TANK SIZE	DETAIL/ SHEET	DESCRIPTION/REMARKS
		HP	AMPS	VOLTS	PHASE						
AC-1	QUINCY QT-5 253D80VCB46M	5	7.6	480	3	17.2	175	AIR	80 GALLON	---	RECIPROCATING PISTON AIR COMPRESSOR, TWO-STAGE, SPLASH LUBRICATED, TANK MOUNTED ON VERTICAL TANK, PROVIDE ISOLATION MOUNTING PADS. INCLUDE NANO 20 CFM CYCLING REFRIGERATED AIR DRYER, AND NANO F1 DRYER PRE-FILTER.

PLUMBING FIXTURE SCHEDULE

REFER TO SPECIFICATION SECTION 22 40 00 FOR ACCEPTABLE EQUAL MANUFACTURERS

ID	FIXTURE	WASTE			WATER				DETAIL/ SHEET	DESCRIPTION/REMARKS
		DFU	TRAP	VENT (MIN)	COLD		HOT			
					CWFU	SIZE	HWFU	SIZE		
AO-1	AIR OUTLET	---	---	---	---	---	---	---	---	FIXTURE: MILTON S-775 STYLE 'A' QUICK DISCONNECT AIR OUTLET, MOUNT 48" AFF, PROVIDE BALL VALVE WITH DIRT LEG.
AT-1	AUTOPSY TABLE WITH SINK (PROVIDED BY DIV 11)	3	2"	1-1/2"	2	3/4"	2	3/4"	---	FIXTURE: SINK, DRAIN STRAINER, AND TAILPIECE PROVIDED BY DIV 11, INSTALLED BY PC. FAUCET: FAUCET PROVIDED BY DIV 11, INSTALLED BY PC. TRAP & DRAIN: 17 GAUGE CAST BRASS P-TRAP, GRID STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE H2167LK, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
EW-1	EMERGENCY EYEWASH (PROVIDED BY DIV 11)	---	---	---	---	1/2"	---	1/2"	---	FIXTURE: DRENCH TYPE EYEWASH PROVIDED BY DIV 11, INSTALLED BY PC. MIXING VALVE: BRADLEY S19-2000 THERMOSTATIC MIXING VALVE, MEETS ANSI Z358.1, CHECKSTOPS ON INLETS, ADJUSTABLE TEMPERATURE RANGE, COLD WATER BYPASS, POSITIVE SHUTOFF ON HOT SUPPLY WHEN COLD SUPPLY IS LOST, DIAL THERMOMETER. PROVIDED AND INSTALLED BY PC, INSTALLED UNDER SINK IN CABINET WITH BALL VALVES.
ESEW-1	EMERGENCY SHOWER / EYEWASH (PROVIDED BY DIV 11)	---	1-1/2"	1-1/2"	---	1-1/4"	---	1-1/4"	---	FIXTURE: SHOWER AND EYEWASH UNIT PROVIDED BY DIV 11, INSTALLED BY PC. MIXING VALVE: BRADLEY S19-2200 THERMOSTATIC MIXING VALVE, MEETS ANSI Z358.1, INTEGRAL STRAINER, CHECKSTOPS ON INLETS, ADJUSTABLE TEMPERATURE RANGE, COLD WATER BYPASS, POSITIVE SHUTOFF ON HOT SUPPLY WHEN COLD SUPPLY IS LOST, DIAL THERMOMETER. PROVIDED AND INSTALLED BY PC, INSTALL ABOVE CEILING AT ESEW-1 LOCATION WITH BALL VALVES.
FH-1	FUME HOOD (PROVIDED BY DIV 11)	0.5	1-1/4"	1-1/2"	0.5	1/2"	0.5	1/2"	---	FIXTURE: FUME HOOD WITH CUP SINK PROVIDED BY DIV 11, CUP SINK INSTALLATION AND ALL CONNECTIONS BY PC. TRAP & DRAIN: PRE-WRAPPED OFFSET DRAIN & P-TRAP, WITH GRID STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE H2167LK, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
FH-2	FUME HOOD (PROVIDED BY DIV 11)	0.5	1-1/4"	1-1/2"	0.5	1/2"	---	---	---	FIXTURE: FUME HOOD WITH CUP SINK PROVIDED BY DIV 11, CUP SINK INSTALLATION AND ALL CONNECTIONS BY PC. TRAP & DRAIN: PRE-WRAPPED OFFSET DRAIN & P-TRAP, WITH GRID STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE H2167LK, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
FS-1	FAUCET STATION	---	---	---	2	1/2"	2	1/2"	---	FIXTURE: CHICAGO FAUCETS 610-GCLVBABCP FAUCET WITH HOSE SPRAY, WALL MOUNTED FAUCET ON 8" CENTERS, LEVER HANDLES, 23" RISER PIPE FITTING, 29" FLEXIBLE HOSE, 1.0 GPM SPRAY VALVE, IN-LINE BACKFLOW PREVENTER, PIPE STRAP AND HOOK ASSEMBLY.
HB-1	HOSE BIBB	---	---	---	3	1/2"	---	---	---	FIXTURE: WOODFORD MODEL 24 ANTI-SIPHON HOSE BIBB, EXPOSED COLD WATER, INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION.
HB-2	HOSE BIBB	---	---	---	3	1/2"	---	---	---	FIXTURE: WOODFORD MODEL 24 ANTI-SIPHON HOSE BIBB, EXPOSED COLD WATER, INTEGRAL VACUUM BREAKER, INCLUDE DIVERTER FOR TWO (2) 3/4" HOSE CONNECTIONS.
HS-1	HOSE STATION AND HOSE	---	---	---	3	3/4"	3	3/4"	---	FIXTURE: STRAHMAN M200TS THERMOSTATICALLY CONTROLLED MIXING WALL MOUNTED FAUCET, BRONZE BODY, SINGLE ON/OFF OPERATION, ADJUSTABLE LIMIT STOP, 1/2" INLET, 5-7 GPM, TEMPERATURE GAUGE. COORDINATE LOCATION & MOUNTING WITH GC. HOSE: STRAHMAN 5/8" ID / 1-1/8" OD HOSE, YELLOW, STAINLESS STEEL FITTINGS, FDA APPROVED INTERNAL TUBE, 50 FOOT LENGTH. NOZZLE: STRAHMAN HYDRO-PRO 150 SPRAY NOZZLE, STAINLESS STEEL HOUSING, LOCKING TRIGGER, BLACK WATERPROOF NYLON COVER, 7 GPM AT 80 PSIG, WITH SWIVEL ADAPTER.
HS-2	HOSE STATION AND HOSE	---	---	---	3	3/4"	3	3/4"	---	FIXTURE: STRAHMAN M200TS THERMOSTATICALLY CONTROLLED MIXING WALL MOUNTED FAUCET, BRONZE BODY, SINGLE ON/OFF OPERATION, ADJUSTABLE LIMIT STOP, 1/2" INLET, 5-7 GPM, TEMPERATURE GAUGE. COORDINATE LOCATION & MOUNTING WITH GC. HOSE: STRAHMAN 5/8" ID / 1-1/8" OD HOSE, YELLOW, STAINLESS STEEL FITTINGS, FDA APPROVED INTERNAL TUBE, 25 FOOT LENGTH. NOZZLE: STRAHMAN HYDRO-PRO 150 SPRAY NOZZLE, STAINLESS STEEL HOUSING, LOCKING TRIGGER, BLACK WATERPROOF NYLON COVER, 7 GPM AT 80 PSIG, WITH SWIVEL ADAPTER.
L-1	LAVATORY (ADA COMPLIANT)	1	1-1/4"	1-1/2"	0.5	1/2"	0.5	1/2"	2/P400	FIXTURE: KOHLER PENNINGTON K-2196-4 SELF-RIMMING LAVATORY SINK, VITREOUS CHINA, THREE FAUCET HOLES ON 2" CENTERS, 20.25" x 17.5", OVERFLOW, ADA COMPLIANT. FAUCET: CHICAGO FAUCETS 2200-4-2300-4KCP MANUAL FAUCET, SINGLE LEVER, SOLID BRASS CONSTRUCTION, CHROME FINISH, CERAMIC CARTRIDGE, 1.5 GPM AERATOR, MOUNTED ON 4" CENTERS, ADA COMPLIANT. TRAP & DRAIN: PRE-WRAPPED OFFSET DRAIN & P-TRAP, WITH GRID STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE H2167LK, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
L-2	LAVATORY (ADA COMPLIANT)	1	1-1/4"	1-1/2"	0.5	1/2"	0.5	1/2"	2/P400	FIXTURE: KOHLER KINGSTON K-2005 WALL HUNG LAVATORY SINK, WHITE VITREOUS CHINA, THREE FAUCET HOLES ON 2" CENTERS, 21.25" x 18.125", WITH OVERFLOW, ADA COMPLIANT. FAUCET: CHICAGO FAUCETS 2200-4-2300-4KCP MANUAL FAUCET, SINGLE LEVER, SOLID BRASS CONSTRUCTION, CHROME FINISH, CERAMIC CARTRIDGE, 1.5 GPM AERATOR, MOUNTED ON 4" CENTERS, ADA COMPLIANT. TRAP & DRAIN: PRE-WRAPPED OFFSET DRAIN & P-TRAP, WITH GRID STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE H2167LK, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
LS-1	LAB SINK (PROVIDED BY DIV 11) (ADA COMPLIANT)	2	1-1/2"	1-1/2"	1	1/2"	1	1/2"	2/P400	FIXTURE: SINK, DRAIN STRAINER, AND TAILPIECE PROVIDED BY DIV 11, INSTALLED BY PC. FAUCET: FAUCET PROVIDED BY DIV 11, INSTALLED BY PC. TRAP & DRAIN: PRE-WRAPPED OFFSET DRAIN & P-TRAP, WITH GRID STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE H2167LK, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
LS-2	LAB SINK (PROVIDED BY DIV 11)	2	1-1/2"	1-1/2"	1	1/2"	1	1/2"	---	FIXTURE: SINK, DRAIN STRAINER, AND TAILPIECE PROVIDED BY DIV 11, INSTALLED BY PC. FAUCET: FAUCET PROVIDED BY DIV 11, INSTALLED BY PC. TRAP & DRAIN: PRE-WRAPPED OFFSET DRAIN & P-TRAP, WITH GRID STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE H2167LK, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
MB-1	MOP BASIN	3	3"	1-1/2"	2	1/2"	2	1/2"	---	FIXTURE: MUSTEE 63M 24"x24"x10" HIGH BASIN, ONE PIECE MOLDED DURASTONE, INTEGRAL MOLDED-IN DRAIN, 3" DRAIN CONNECTION. FAUCET: CHICAGO FAUCETS SERVICE SINK FAUCET 305-RCF WITH ROUGH CHROME FINISH, 3/4" MALE HOSE THREADED OUTLET, PAIL HOOK, ADJUSTABLE SUPPLY ARMS WITH INTEGRAL SERVICE STOPS AND LEVER HANDLES. PROVIDE WATTS MODEL 8AC NON-REMOVABLE CHROME VACUUM BREAKER. ACCESSORIES: PROVIDED BY DIV 11, COORDINATE LOCATIONS.
S-1	SINK (BREAK ROOM SINK) (ADA COMPLIANT)	2	1-1/2"	1-1/2"	1.5	1/2"	1.5	1/2"	---	FIXTURE: ELKAY LRAD2521-6.5, 18 GAUGE TYPE 304 STAINLESS STEEL SINK, SELF-RIMMING, 25"x21.25"x6.5" DEEP, THREE FAUCET HOLES ON 4" CENTERS, CUSTOM DRILL FOURTH HOLE FOR SIDE SPRAY 6" TO RIGHT OF FAUCET HOLE, ADA COMPLIANT. FAUCET: CHICAGO FAUCETS 1102-317CP, MANUAL FAUCET WITH SIDE SPRAY, BRASS CONSTRUCTION, 2.2 GPM AERATOR, POLISHED CHROME FINISH, 8" CAST BRASS SWING SPOUT, TWO 4" WRISTBLADE HANDLES, TWO HOLE MOUNTING ON 8" CENTERS, DECK MOUNTED. TRAP & DRAIN: CHROME PLATED CAST BRASS P-TRAP, WITH BASKET STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE H2167LK, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
S-2	SINK	2	1-1/2"	1-1/2"	1.5	1/2"	1.5	1/2"	---	FIXTURE: ADVANCE TABCO 4-OP-18, 16 GAUGE TYPE 304 STAINLESS STEEL SINK, FLOOR STANDING WITH FOUR LEGS, 24"x21"x8" DEEP WITH 8" HIGH BACKSPLASH, TWO FAUCET HOLES ON 8" CENTERS ON BACKSPLASH. FAUCET: CHICAGO FAUCETS W8W-GN2AE35-317AB, MANUAL FAUCET, BRASS CONSTRUCTION, 1.5 GPM AERATOR, POLISHED CHROME FINISH, 5-1/4" CAST BRASS GOOSENECK SPOUT, TWO 4" WRISTBLADE HANDLES, TWO HOLE MOUNTING ON 8" CENTERS, BACKSPLASH MOUNTED. TRAP & DRAIN: CHROME PLATED CAST BRASS P-TRAP, WITH BASKET STRAINER DRAIN. STOPS & SUPPLIES: McGUIRE H2167LK, LOOSE KEY QUARTER TURN ANGLE STOPS WITH CHROME PLATED ESCUTCHEONS & CHROME PLATED COPPER RISER SUPPLIES.
SH-1	SHOWER (ADA COMPLIANT)	2	2"	1-1/2"	2	1/2"	2	1/2"	---	ENCLOSURE: FIELD BUILT BY OTHERS. FIXTURE: SYMMONS 3505-H321-V-CYL-X-2.0 SHOWER SYSTEM, ON/OFF MIXING VALVE, DIVERTER VALVE, FIXED SHOWER HEAD, HAND HELD SHOWER HEAD WITH 60" HOSE & IN-LINE VACUUM BREAKER WALL CONNECTION, 30" SLIDE BAR WITH CRADLE FROM HAND SHOWER, ALL CHROME FINISH, 2.0 GPM FLOW RATE, ADA COMPLIANT. DRAIN: FLOOR DRAIN FD-1 IN SHOWER FLOOR.
TMV-1	THERMOSTATIC MIXING VALVE	---	---	---	---	---	---	---	5/P400	FIXTURE: ETV-SS 1" ELECTRONIC THERMOSTATIC MIXING VALVE, HOT WATER SHUT-OFF FAILURE, FULLY PROGRAMMABLE, 120 VAC / 1 PHASE, STAINLESS STEEL VALVE CONSTRUCTION, INCLUDE AQUASTAT ON HOT WATER INLET. PROVIDE SOLENOID ON HOT WATER INLET TO VALVE.
UR-1	URINAL (ADA HEIGHT)	2	2	1-1/2"	2	3/4"	---	---	---	FIXTURE: KOHLER BARDON K-4904-ET VITREOUS CHINA URINAL, WALL MOUNTED, WASHOUT, 3/4" TOP SPUD, 0.5 GPF, ADA HEIGHT. FLUSH VALVE: SLOAN ROYAL 186-0.5 MANUAL FLUSH VALVE, EXPOSED VALVE, CHROME FINISH, 0.5 GPF, FOR 3/4" TOP SPUD, 3/4" SCREWDRIVER ANGLE STOP, RUBBER DIAPHRAGM, ADA COMPLIANT. SUPPORT: COMMERCIAL GRADE, WALL HUNG URINAL SUPPORT, STEEL STANCHIONS, IRON WELDED FEET, STEEL SLEEVES, FASTEN TO FLOOR.
WC-1	WATER CLOSET	6	4"	2"	6.5	1-1/2"	---	---	---	FIXTURE: KOHLER KINGSTON K-4325, WALL HUNG, FLUSH VALVE TOILET, WHITE VITREOUS CHINA, ELONGATED BOWL, 1.6 GPF MAX, 2.25" TRAPWAY, 1-1/2" TOP SPUD. FLUSH VALVE: SLOAN ROYAL 111-1.6 MANUAL FLUSH VALVE, EXPOSED VALVE, CHROME FINISH, 1.6 GPF, FOR 1-1/2" TOP SPUD, 1" SCREWDRIVER ANGLE STOP, RUBBER DIAPHRAGM, ADA COMPLIANT. SEAT: KOHLER LUSTRA K-4670-CA, OPEN FRONT TOILET SEAT, ELONGATED BOWL, INJECTION MOLDED, WITH ANTI-MICROBIAL AGENT. SUPPORT: COMMERCIAL GRADE, WALL HUNG WATER CLOSET SUPPORT, STEEL STANCHIONS, IRON WELDED FEET, STEEL SLEEVES, FASTEN TO FLOOR.
WC-2	WATER CLOSET (ADA HEIGHT)	6	4"	2"	6.5	1-1/2"	---	---	---	FIXTURE: SAME AS WC-1, MOUNTED AT ADA HEIGHT. FLUSH VALVE: SAME AS WC-1, MOUNTED AT ADA HEIGHT. SEAT: KOHLER LUSTRA K-4670-CA, OPEN FRONT TOILET SEAT, ELONGATED BOWL, INJECTION MOLDED, WITH ANTI-MICROBIAL AGENT. SUPPORT: COMMERCIAL GRADE, WALL HUNG WATER CLOSET SUPPORT, STEEL STANCHIONS, IRON WELDED FEET, STEEL SLEEVES, FASTEN TO FLOOR.
WH-1	WALL HYDRANT	---	---	---	4	3/4"	---	---	---	FIXTURE: WOODFORD MODEL 67, EXTERNAL FREEZELESS WALL HYDRANT, AUTOMATIC DRAINING, INTEGRAL VACUUM BREAKER, 3/4" HOSE CONNECTION, LOOSE TEE KEY.
WM-1	WASHING MACHINE WALL BOX	4	2"	1-1/2"	2	3/4"	2	3/4"	7/P400	FIXTURE: GUY GRAY T200TPCPVCHA WASHING MACHINE RECESSED WALL BOX, WHITE POWDER COATED FINISH, 1/2" QUARTER TURN HOT & COLD VALVES, INTEGRAL WATER HAMMER ARRESTORS, 2" DRAIN OUTLET.

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ISSUE
01.12.15 CONSTRUCTION DOCUMENTS

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
PLUMBING SCHEDULES

DATE
01.12.15

ABBREVIATIONS

ACC	AIR COOLED CONDENSER
AD	ACCESS DOOR
ADJ	ADJUSTABLE
A/E	ARCHITECT/ENGINEER
AF	AIR FOIL
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AP	ACCESS PANEL
B	BOILER
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
C	CONVECTOR
CA	COMBUSTION AIR
CCC	COOLING COIL CONDENSATE
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CL	CENTERLINE
CLG	CEILING
CONC	CONCRETE
COND	CONDENSATE
CONTR	CONTRACTOR
COP	COEFFICIENT OF PERFORMANCE
CRAC	COMPUTER RM AIR CONDITIONING UNIT
CRU	COMPUTER ROOM UNIT
CU	COPPER
CUH	CABINET UNIT HEATER
CW	COLD WATER
D	DRAIN
DB	DRY BULB
DCO	DOOR CUTOFF BY GC
DDC	DIRECT DIGITAL CONTROL
DEPT	DEPARTMENT
DG	DOOR GRILLE BY GC
DIA	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DSA	DUCT SOUND ATTENUATOR
DWDI	DOUBLE WIDTH DOUBLE INLET
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EER	ENERGY EFFICIENCY RATIO
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
ER	EXHAUST REGISTER
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXT	EXTERIOR OR EXTERNAL
°F	DEGREES FAHRENHEIT
FA	FREE AREA
FC	FORWARD CURVED
FD	FLOOR DRAIN OR FIRE DAMPER
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FPM	FEET PER MINUTE
FT	FOOT OR FEET
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLYR	GLYCOL RETURN
GLYS	GLYCOL SUPPLY
GPM	GALLONS PER MINUTE
GV	GAS VENT
HC	HEATING CONTRACTOR
HD	HUB DRAIN
HDT	HORIZONTAL DRAW THRU
HE	HEAT EXCHANGER
HG	MERCURY
HP	HORSEPOWER
HR	HOUR
HVAC	HEATING VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ
IN	INCH
INV	INVERT
IPLV	INTEGRATED PART LOAD VALUE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD	LINEAR DIFFUSER
LWT	LEAVING WATER TEMPERATURE
M	MOTOR OPERATED DAMPER
MAT	MIXED AIR TEMPERATURE
MA	MIXED AIR
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS/HOUR
MCA	MINIMUM CIRCUIT AMPS
MECH	MECHANICAL
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPLV	NOMINAL PART LOAD VALUE
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OAT	OUTDOOR AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PLBG	PLUMBING
PRD	PRESSURE RELIEF DOOR
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PVC	POLYVINYL CHLORIDE
R	REFRIGERANT
RA	RETURN AIR
RD	ROOF DRAIN
REQD	REQUIRED
REF	ROOF EXHAUST FAN
RG	RETURN GRILLE
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOF TOP UNIT
S	SUPPLY
SA	SUPPLY AIR
SD	SLOT DIFFUSER
SG	SUPPLY GRILLE
SM	SHEET METAL
SQ FT	SQUARE FEET
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
SWD	SINGLE WALL DUCTWORK
SWSI	SINGLE WIDTH SINGLE INLET
T	THERMOSTAT/TEMPERATURE SENSOR
TA	THROWAWAY
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TCV	TEMPERATURE CONTROL VALVE
TG	TRANSFER GRILLE
TO	TEST OPENINGS
TYP	TYPICAL
UH	UNIT HEATER
V	VENT
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VSC	VARIABLE SPEED CONTROL
WB	WET BULB
WC	WATER COLUMN
WPD	WATER PRESSURE DROP

PIPING SYSTEMS

- PLUG VALVE (GAS)
- GENERAL SHUTOFF VALVE SEE SPECIFICATIONS FOR TYPE
- CALIBRATED BALANCE/SHUTOFF VALVE (FLOW MEASURING)
- 2-WAY TEMPERATURE CONTROL VALVE (PNEUMATIC OR ELECTRIC)
- 3-WAY TEMPERATURE CONTROL VALVE (PNEUMATIC OR ELECTRIC)
- CHECK VALVE
- DRAIN VALVE (W/ HOSE CONNECTION & BRASS CAP)
- PRESSURE REDUCING VALVE
- RELIEF (R) OR SAFETY (S) VALVE
- BLIND FLANGE
- CAP
- CONNECTION, BOTTOM
- CONNECTION, TOP
- ELBOW, TURNED UP
- ELBOW, TURNED DOWN
- PRESSURE SENSOR
- FLOW METER
- AIR VENT
- AIR SEPARATOR
- PIPE ALIGNMENT GUIDE
- PIPE ANCHOR
- FLEXIBLE CONNECTOR
- TEMPERATURE SENSOR
- PRESSURE GAUGE AND COCK
- PUMP
- STRAINER
- STRAINER, W/ BLOW DOWN VALVE
- THERMOMETER
- THERMOMETER WELL, ONLY
- PETES PLUG
- FLOW DIRECTION IN PIPES
- UNION
- PIPE FLANGE
- CW — COLD WATER (DOMESTIC)
- G XXX PSIG — GAS
- GLYS — GLYCOL SUPPLY
- GLYR — GLYCOL RETURN
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- RHG — REFRIGERANT HOT GAS
- RS — REFRIGERANT SUCTION
- RL — REFRIGERANT LIQUID
- D — DRAIN
- CWS — CHILLED WATER SUPPLY
- CWR — CHILLED WATER RETURN

GENERAL SYMBOLS

- T — THERMOSTAT OR TEMPERATURE SENSOR
- T — THERMOSTAT OR TEMPERATURE SENSOR WITH SECURITY COVER
- H — HUMIDISTAT OR HUMIDITY SENSOR
- H — HUMIDISTAT OR HUMIDITY SENSOR WITH SECURITY COVER
- NEW DUCTWORK/PIPING
- NEW EQUIPMENT
- DP — DIFFERENTIAL PRESSURE

DUCTWORK SYSTEMS

- 20/12 — DUCT SIZE, (FIRST FIGURE IS SIDE SHOWN)
- 12" Ø — ROUND DUCT
- 20/12 Ø — OVAL DUCT
- UP/DN — CHANGE OF ELEVATION IN DIRECTION OF AIR FLOW
- AD — ACCESS DOOR, VERTICAL OR HORIZONTAL
- ACOUSTICAL DUCT LINER
- FLEXIBLE CONNECTION
- DUCT SOUND ATTENUATOR
- DUCT TRANSITION (DOUBLE LINE)
- DUCT TRANSITION (RECT. TO ROUND)
- DUCT TRANSITION (SINGLE LINE)
- HIDDEN DUCTWORK
- BDD — BACK DRAFT DAMPER
- M — MOTOR OPERATED DAMPER
- MANUAL VOLUME DAMPER
- S — SMOKE DETECTOR
- STANDARD BRANCH, SUPPLY, RETURN, OR EXHAUST, NO SPLITTER
- ROOF VENTILATOR OR HOOD ON ROOF ABOVE
- ROOF VENTILATOR OR HOOD ON ROOF
- DUCT CAP
- END OF DUCT
- P — STATIC PRESSURE SENSOR
- NEW NEW — POSITIVE PRESSURE DUCT SECTION
- POSITIVE PRESSURE DUCT (DOWN OR AWAY)
- NEW NEW — NEGATIVE PRESSURE DUCT SECTION
- NEGATIVE PRESSURE DUCT (DOWN OR AWAY)
- FLEXIBLE DUCT DIFFUSER CONNECTION
- SIDEWALL AIR DEVICE
- EXHAUST, RETURN, OR TRANSFER AIR DEVICE
- SUPPLY AIR DEVICE
- LINEAR OR SLOT AIR DEVICE
- SIZE — TRANSFER GRILLE ASSEMBLY
- LOUVER AND BIRD SCREEN
- DG, X.X ØFA — DOOR GRILLE
- DCO — 3/4" DOOR CUTOFF (UNDERCUT) BY GC
- ELBOW WITH TURNING VANES
- TERMINAL UNIT, VARIABLE VOLUME WITH REHEAT
- UNIT HEATER
- AIR FLOW
- SQUARE FEET
- MAXIMUM SECURITY BARS

PLENUM NOTE:
RETURN AIR CEILING PLENUMS ARE UTILIZED ON THIS PROJECT IN THE OFFICE AREA OF THE FACILITY. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL ASCERTAIN THAT ALL ROOMS TO WHICH AIR IS SUPPLIED, HAVE RETURN AIR PATHS BACK TO AND THRU THE CEILING PLENUM. ANY SPACES OBSERVED WHICH DO NOT HAVE SUCH OPENINGS SHALL BE REPORTED TO A/E IMMEDIATELY FOR RESOLUTION. PIPING AND DUCTWORK SHALL BE INSTALLED IN SUCH A MANNER SO AS NOT TO BLOCK THE RETURN AIR PATH. RETURN AIR OPENINGS TO SHAFTS & INTAKE DUCTWORK. ALL MATERIALS IN PLENUMS SHALL BE PLENUM RATED NON-COMBUSTIBLE MATERIALS.

HVAC SHEET INDEX

M000	HVAC SYMBOLS AND ABBREVIATIONS
M200	HVAC FIRST FLOOR PLAN
M201	HVAC ROOF PLAN, AND DETAILS
M300	HVAC PIPING FIRST FLOOR AND PENTHOUSE PLANS
M301	HVAC RADIANT PIPING FIRST FLOOR PLAN
M400	HVAC SECTIONS
M401	HVAC ENLARGED PLANS AND SECTIONS
M500	HVAC DETAILS
M600	HVAC PIPING DETAILS
M601	HVAC PIPING DETAILS
M800	HVAC HOT WATER SYSTEM SCHEMATIC
M900	HVAC SCHEDULES
M901	HVAC SCHEDULES
M902	HVAC SCHEDULES

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01.12.15 CONSTRUCTION DOCUMENTS

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
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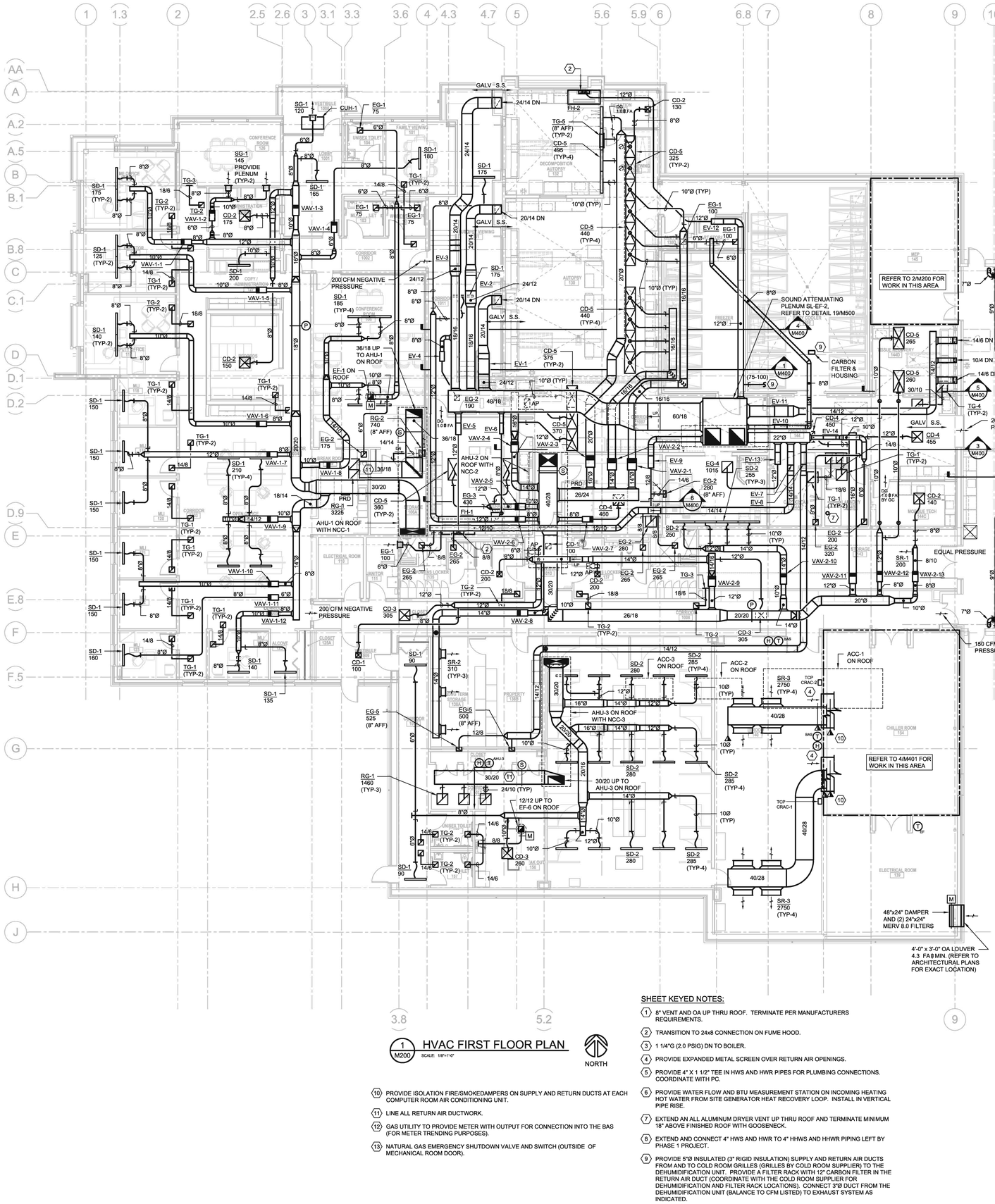
BID NO.
313083

DRAWING
HVAC SYMBOLS AND ABBREVIATIONS

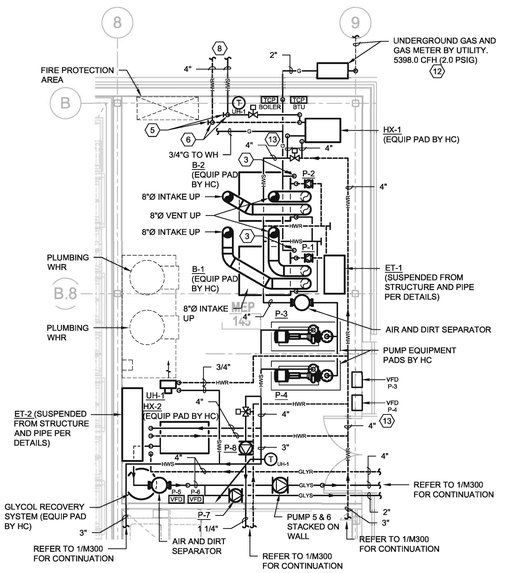
DATE
01.12.15

M000



1 M200 HVAC FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

NORTH



2 M200 ENLARGED MECHAINCAL ROOM - HVAC
SCALE: 1/4"=1'-0"

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PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
HVAC FIRST FLOOR PLAN

DATE
01.12.15

JDR
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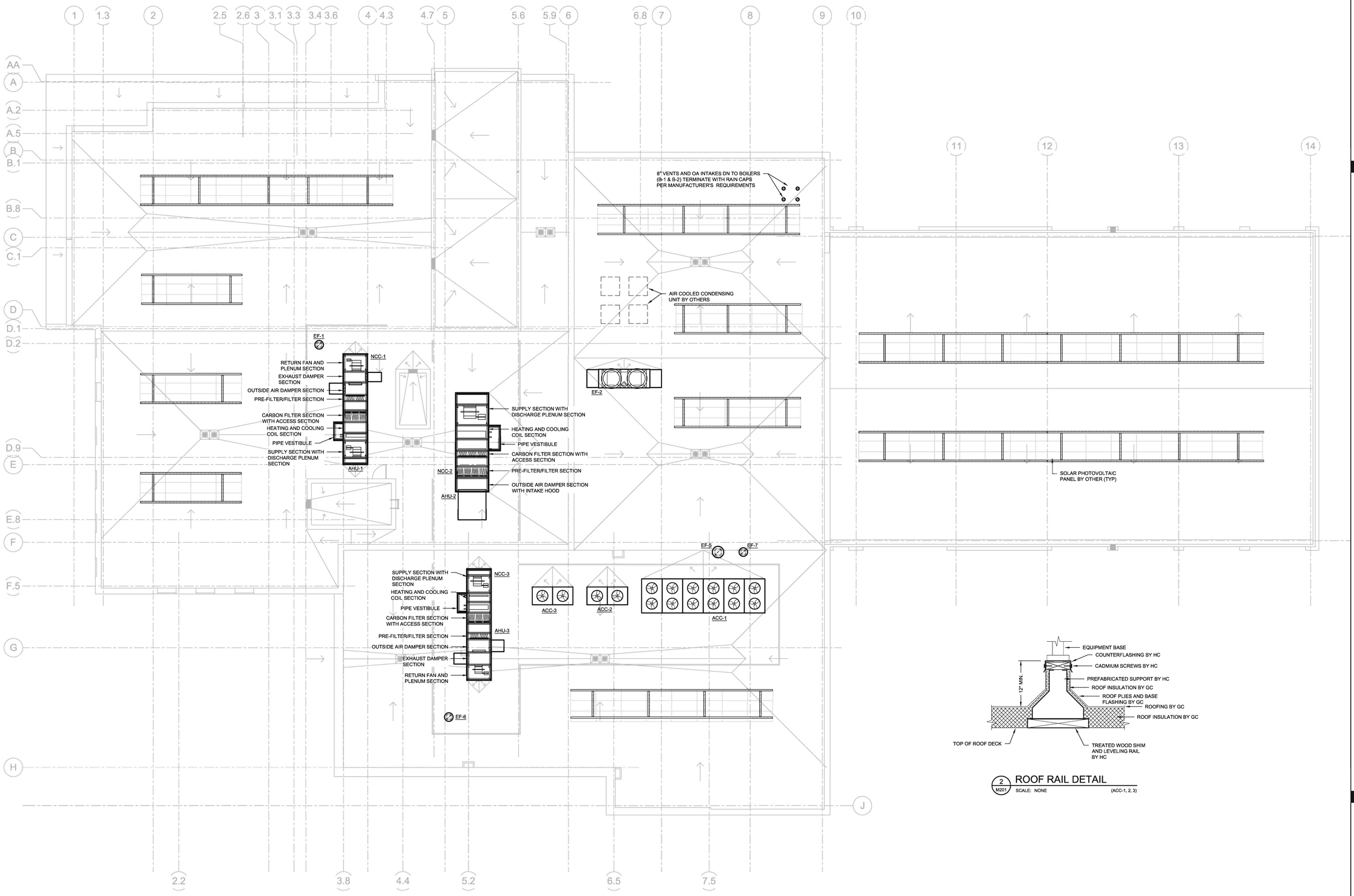
JDR Project No. 130099

M200



1 M201 HVAC ROOF PLAN
SCALE: 1/8"=1'-0"

NORTH

2 M201 ROOF RAIL DETAIL
SCALE: NONE (ACC-1, 2, 3)

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MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
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MC FARLAND, WI 53558

BID NO.
313083

DRAWING
HVAC ROOF PLAN, AND DETAILS

DATE
01.12.15

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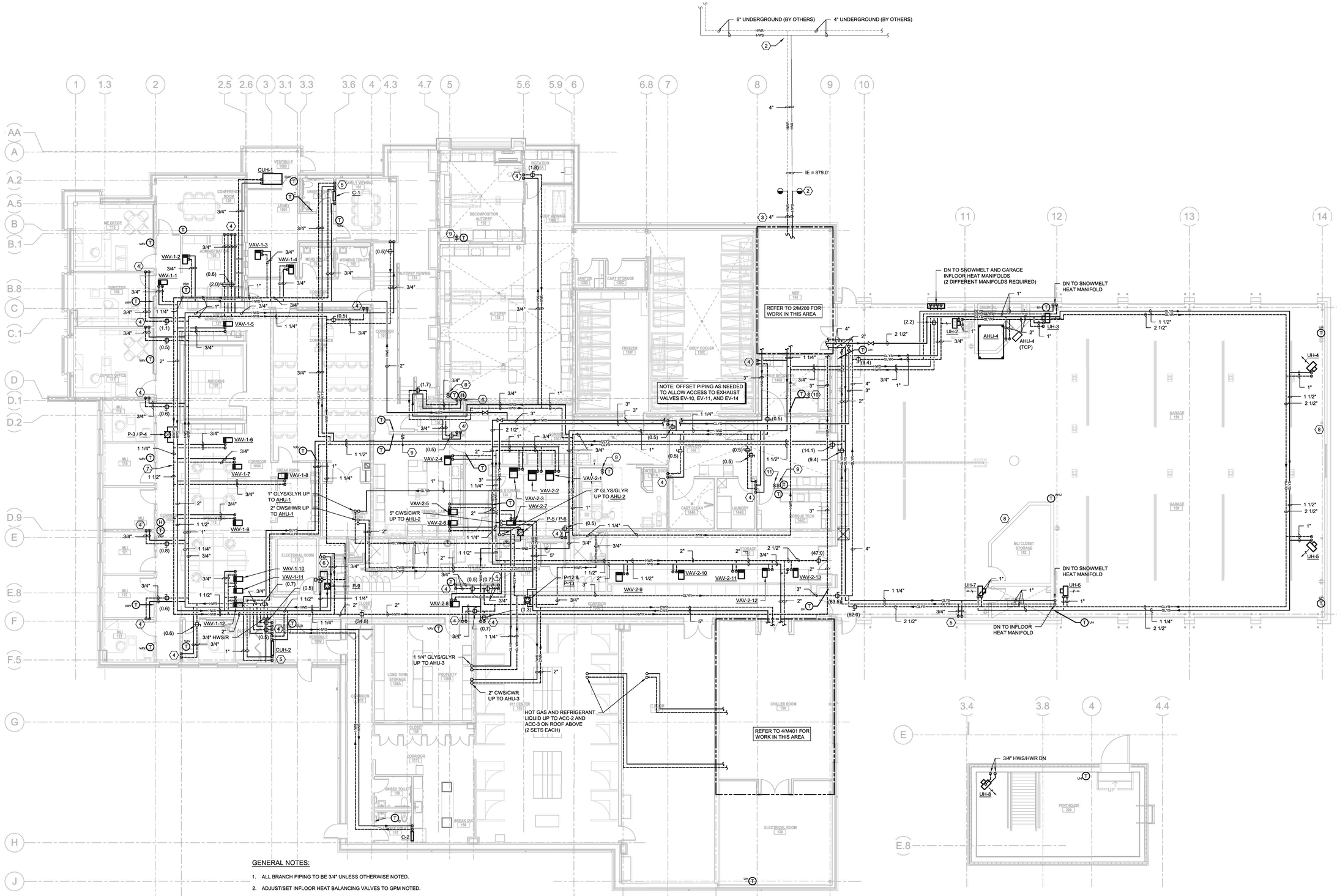
M201



1 M300 HVAC PIPING FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

NORTH

2 M300 HVAC PENTHOUSE FLOOR PLAN
SCALE: 1/4"=1'-0"

NORTH

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PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
HVAC PIPING FIRST FLOOR AND PENTHOUSE PLANS

DATE
01.12.15

JDR
ENGINEERING, INC.
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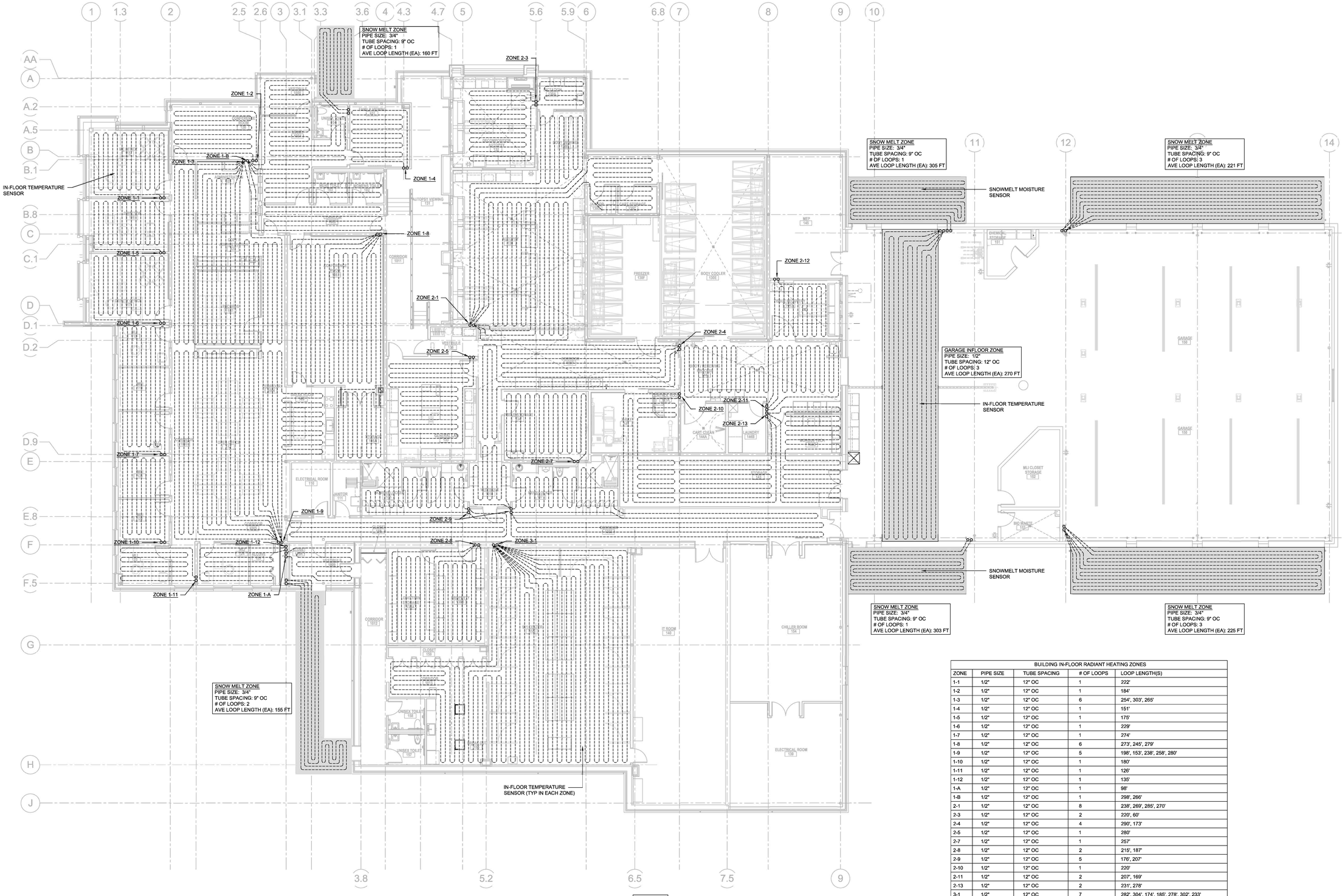
JDR Project No. 130099

M300



BUILDING IN-FLOOR RADIANT HEATING ZONES				
ZONE	PIPE SIZE	TUBE SPACING	# OF LOOPS	LOOP LENGTH(S)
1-1	1/2"	12" OC	1	222'
1-2	1/2"	12" OC	1	184'
1-3	1/2"	12" OC	6	254', 303', 265'
1-4	1/2"	12" OC	1	151'
1-5	1/2"	12" OC	1	175'
1-6	1/2"	12" OC	1	229'
1-7	1/2"	12" OC	1	274'
1-8	1/2"	12" OC	6	273', 245', 279'
1-9	1/2"	12" OC	5	198', 153', 238', 258', 280'
1-10	1/2"	12" OC	1	180'
1-11	1/2"	12" OC	1	126'
1-12	1/2"	12" OC	1	135'
1-A	1/2"	12" OC	1	98'
1-B	1/2"	12" OC	1	298', 266'
2-1	1/2"	12" OC	8	238', 269', 285', 270'
2-3	1/2"	12" OC	2	220', 60'
2-4	1/2"	12" OC	4	290', 173'
2-5	1/2"	12" OC	1	280'
2-7	1/2"	12" OC	1	257'
2-8	1/2"	12" OC	2	215', 187'
2-9	1/2"	12" OC	5	176', 207'
2-10	1/2"	12" OC	1	220'
2-11	1/2"	12" OC	2	207', 169'
2-13	1/2"	12" OC	2	231', 278'
3-1	1/2"	12" OC	7	282', 304', 174', 185', 278', 302', 233'

1 M301 RADIANT PIPING FIRST FLOOR PLAN

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

GENERAL NOTES:

1. EACH INTERIOR RADIANT HEATING ZONE SHALL HAVE AN IN-FLOOR TEMPERATURE SENSOR.

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MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
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HVAC RADIANT PIPING FIRST FLOOR PLAN

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01.12.15

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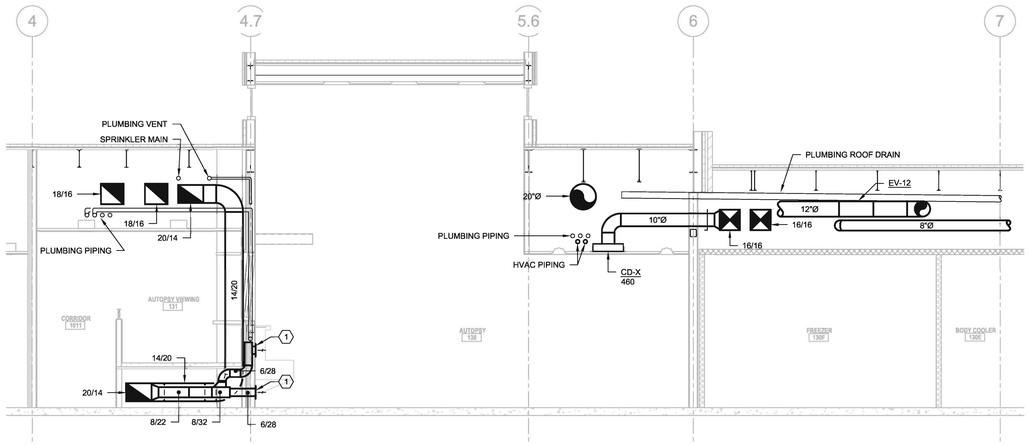
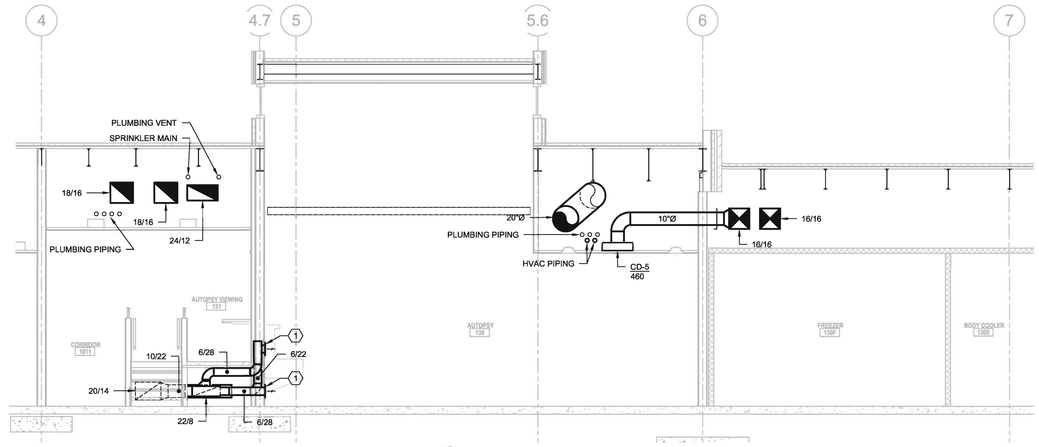
M301



4 M400 HVAC SECTION
SCALE: 1/4"=1'-0"

KEYED NOTES:

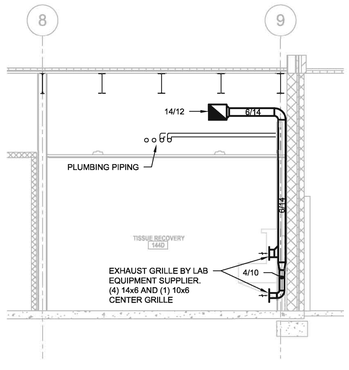
1. EXHAUST GRILLE BY LAB EQUIPMENT SUPPLIER.
RM 130: (4) 28x6 (425 EACH) AND (1) 22x6 (300) CENTER GRILLE.
RM 132: (4) 28x6 (525 EACH) AND (1) 22x6 (450) CENTER GRILLE.



1 M400 HVAC SECTION
SCALE: 1/4"=1'-0"

KEYED NOTES:

1. EXHAUST GRILLE BY LAB EQUIPMENT SUPPLIER.
RM 130: (4) 28x6 (425 EACH) AND (1) 22x6 (300) CENTER GRILLE.
RM 132: (4) 28x6 (525 EACH) AND (1) 22x6 (450) CENTER GRILLE.

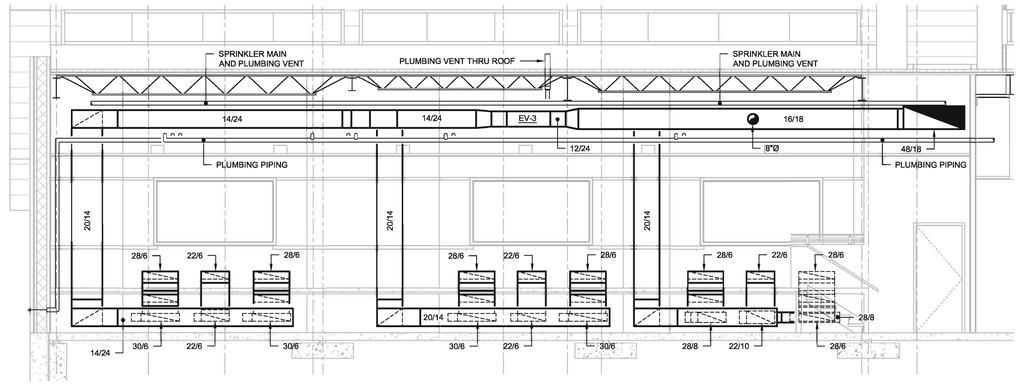


5 M400 HVAC SECTION
SCALE: 1/4"=1'-0"

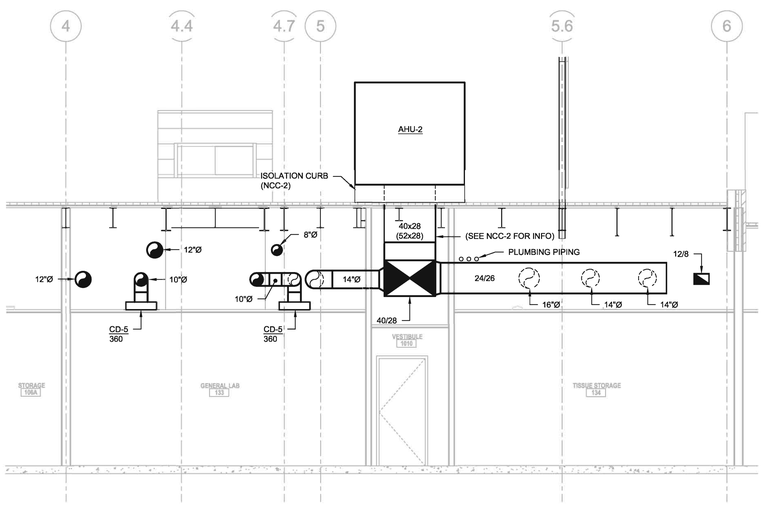
NOTE:

ROOM NORMAL MODE (POSITIVE PRESSURE)
(5) EG'S AT 65 CFM EACH FOR 325 CFM EXHAUST
(1) CD AT 265 CFM, (1) CD AT 260 FOR 535 SUPPLY AIR
200 CFM TRANSFER OUT

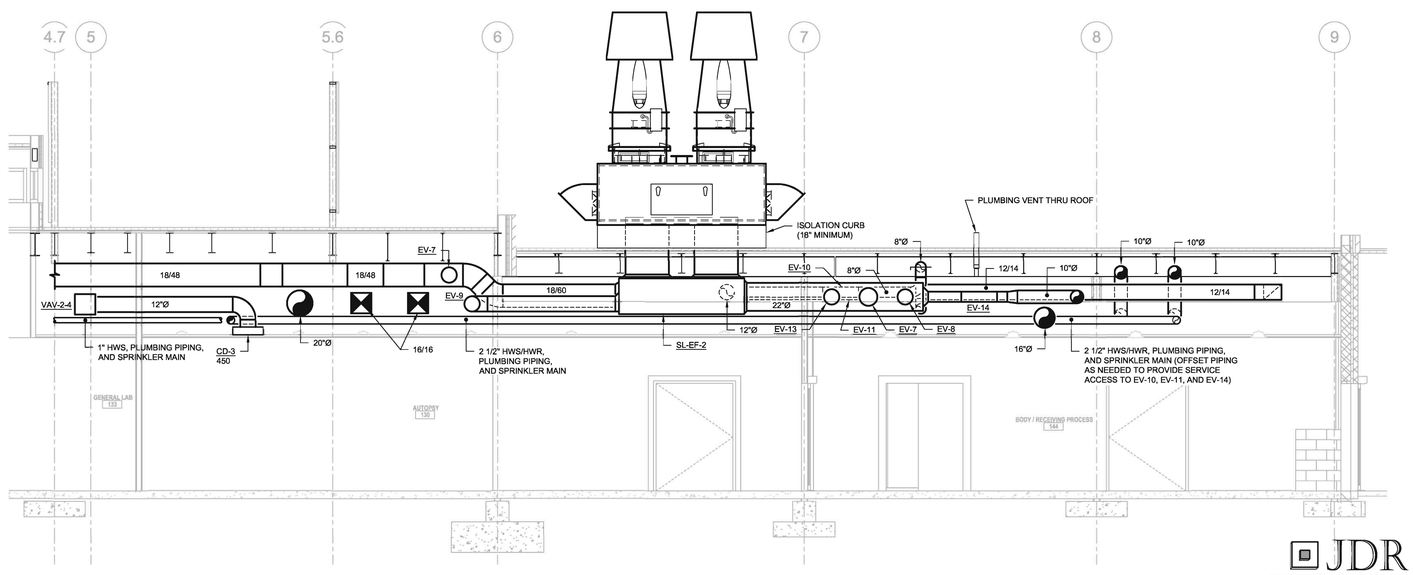
ROOM ALTERNATE MODE (NEGATIVE PRESSURE
(4) EG'S AT 225 CFM, (1) EG AT 150 CFM FOR 1050 CFM EXHAUST
(1) CD AT 265 CFM, (1) CD AT 260 FROM 525 CFM SUPPLY AIR



2 M400 HVAC SECTION
SCALE: 1/4"=1'-0"



6 M400 HVAC SECTION
SCALE: 1/4"=1'-0"



3 M400 HVAC SECTION
SCALE: 1/4"=1'-0"

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PROJECT
MEDICAL EXAMINER OFFICE
BUILDING (BID PACKAGE B)

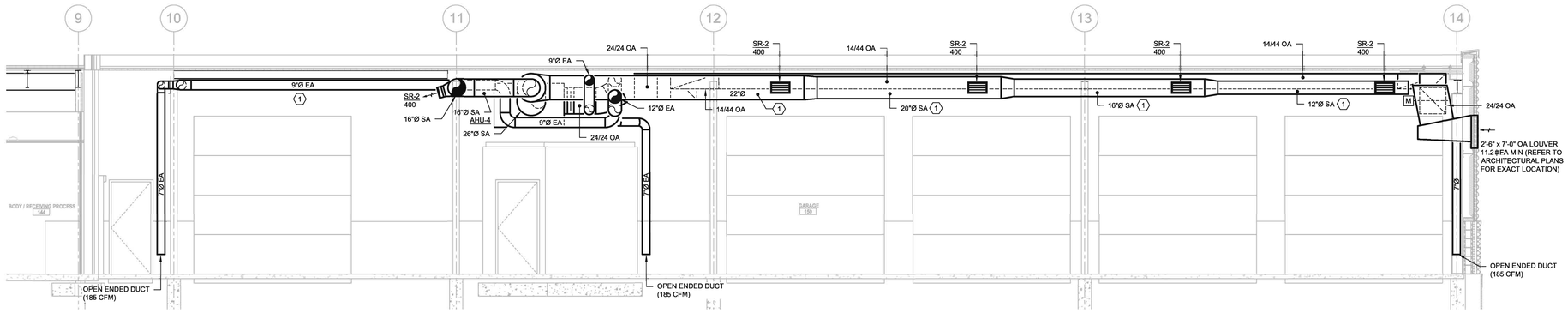
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
HVAC SECTIONS

DATE
01.12.15

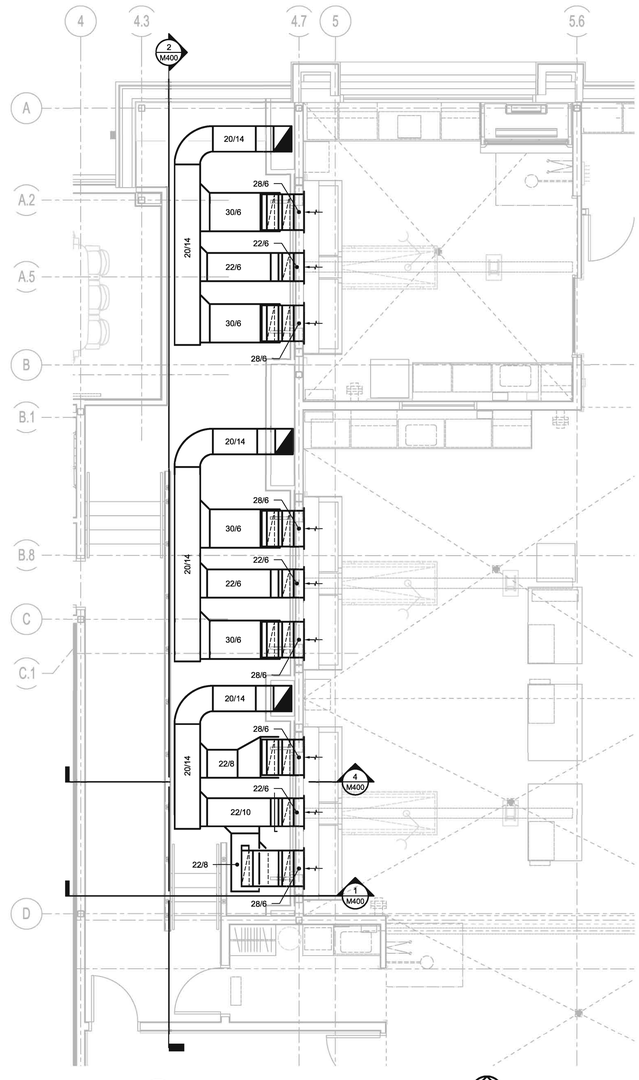
M400



1 M401 **HVAC SECTION**
SCALE: 1/4"=1'-0"

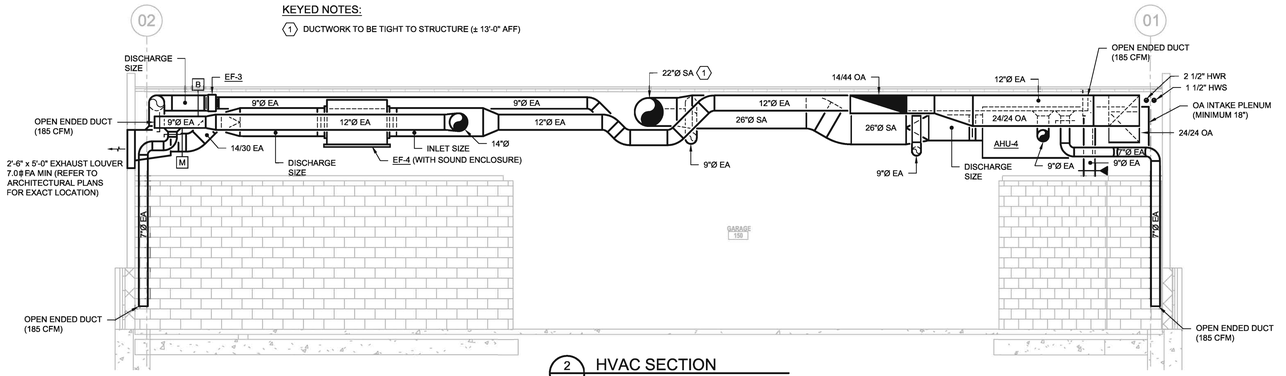
KEYED NOTES:

1 DUCTWORK TO BE TIGHT TO STRUCTURE (± 13'-0" AFF)



3 M401 **ENLARGED FLOOR PLAN - HVAC**
SCALE: 1/4"=1'-0"

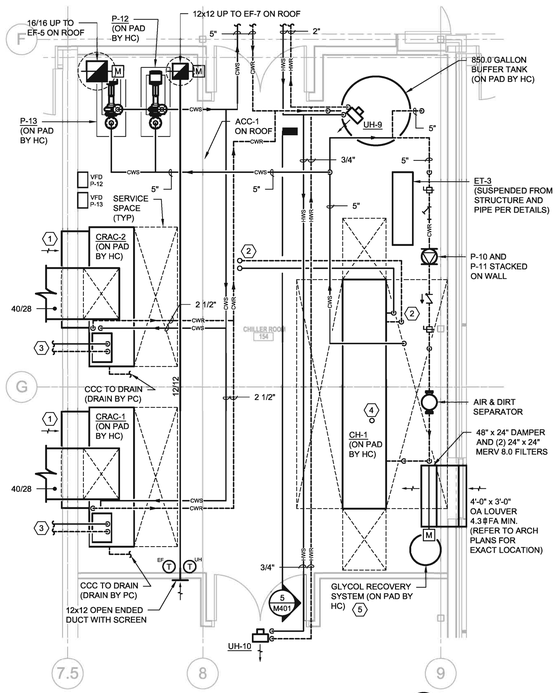
NORTH



2 M401 **HVAC SECTION**
SCALE: 1/4"=1'-0"

KEYED NOTES:

1 DUCTWORK TO BE TIGHT TO STRUCTURE (± 13'-0" AFF)



4 M401 **ENLARGED CHILLER ROOM - HVAC**
SCALE: 1/4"=1'-0"

NORTH

KEYED NOTES:

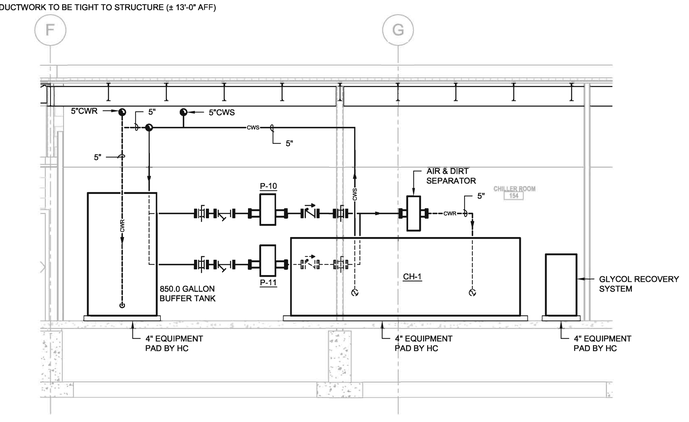
1 PROVIDE EXPANDED METAL SCREEN OVER RETURN AIR OPENINGS.

2 REFRIGERANT LIQUID AND HOT GAS (2 SETS) BETWEEN CH-1 AND ACC-1 ON ROOF.

3 REFRIGERANT LIQUID AND HOT GAS (2 SETS) BETWEEN CRAC AND ACC ON ROOF.

4 RELIEF VALVE PIPING UP THRU ROOF (SIZE PER CODE AND MANUFACTURERS REQUIREMENTS).

5 PIPE GLYCOL PRESSURE RELIEF DISCHARGE PIPING TO GLYCOL RECOVERY TANK.



5 M401 **HVAC SECTION**
SCALE: 1/4"=1'-0"

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MEDICAL EXAMINER OFFICE
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3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
HVAC ENLARGED
PLANS AND SECTIONS

DATE
01.12.15

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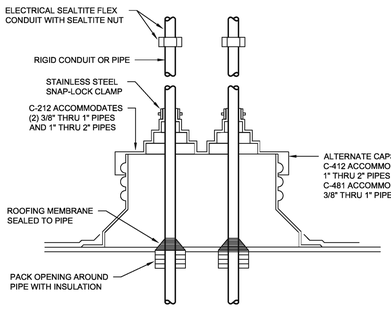
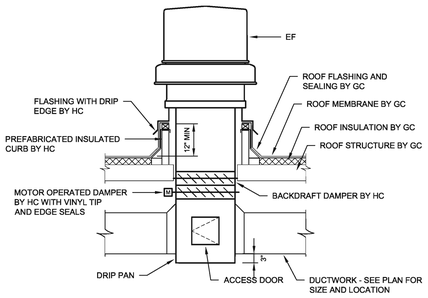
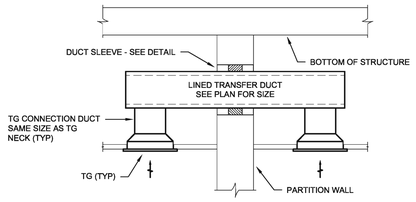
M401



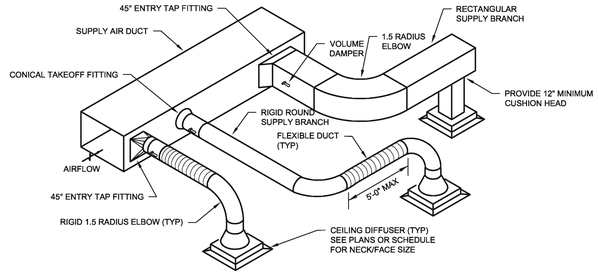
16 M500 PIPE SEAL AT ROOF
SCALE: NONE



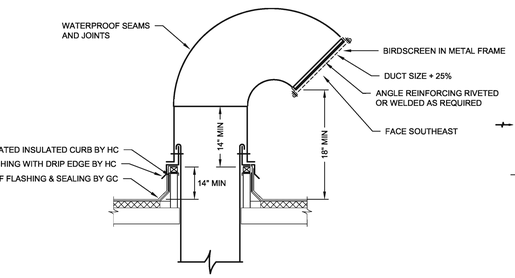
11 M500 ROOF EXHAUST FAN
SCALE: NONE



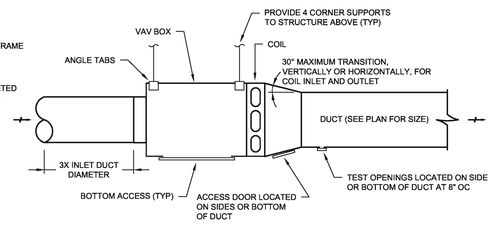
6 M500 TRANSFER DUCT DETAIL
SCALE: NONE



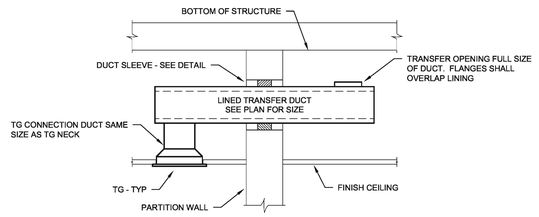
1 M500 BRANCH DUCT & DIFFUSER CONNECTION
SCALE: NONE



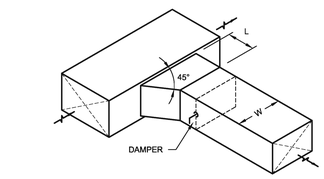
17 M500 GOOSENECK DETAIL
SCALE: NONE



12 M500 VAV BOOSTER COIL DETAIL
SCALE: NONE

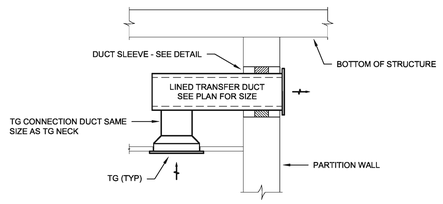


7 M500 TRANSFER DUCT DETAIL
SCALE: NONE

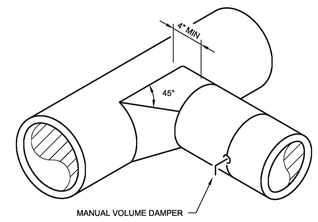


NOTE: L = 1/4W (4" MINIMUM)

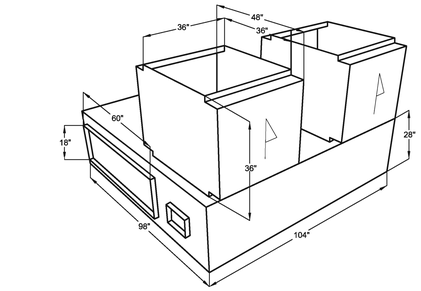
2 M500 BRANCH DUCT TAKEOFF
SCALE: NONE
(REVERSE FLOW ARROWS FOR EXHAUST AND RETURN)



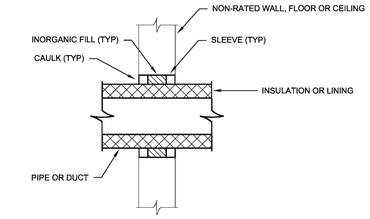
8 M500 TRANSFER DUCT DETAIL
SCALE: NONE



3 M500 BRANCH DUCT TAKEOFF DETAIL
SCALE: NONE

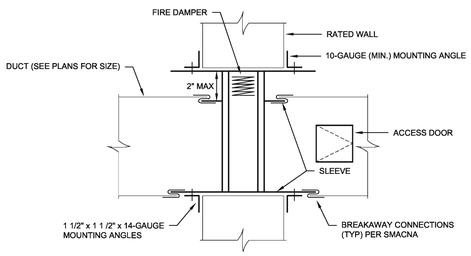


18 M500 SOUND ATTENUATING PLENUM SL-EF-2
SCALE: NONE

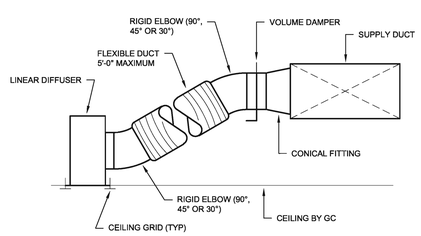


NOTE: CAULKING SHALL BE 1/2" DEEP BUTYL RUBBER.

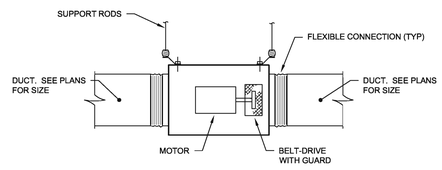
13 M500 PIPE OR DUCT SLEEVE DETAIL
SCALE: NONE



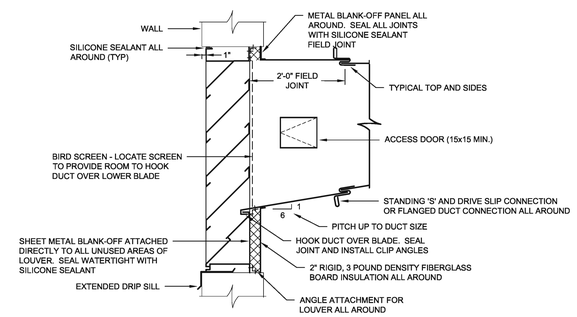
9 M500 VERTICAL FIRE DAMPER DETAIL
SCALE: NONE



4 M500 LINEAR DIFFUSER CONNECTION DETAIL
SCALE: NONE

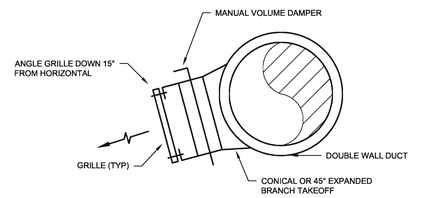


14 M500 INLINE EXHAUST FAN
SCALE: NONE



NOTE: ALL DUCT JOINTS, CORNERS AND SEAMS SHALL BE SEALED WITH SILICONE SEALANT OR SOLDERED LEAK TIGHT.

10 M500 LOUVER INSTALLATION DETAIL
SCALE: NONE



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

5 M500 GRILLE CONNECTION TO ROUND DUCT DETAIL
SCALE: NONE

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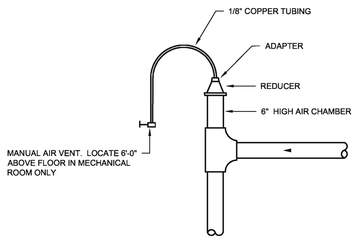
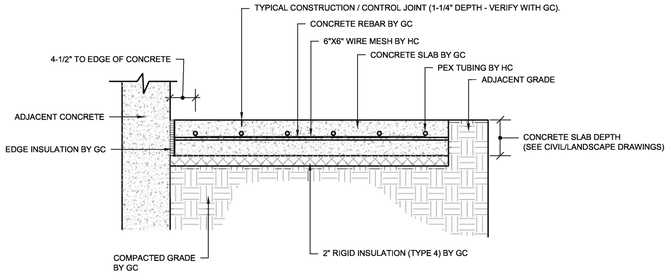


NOTES:

1. PROVIDE AT ALL HIGH POINTS IN PIPING SYSTEM.
2. PROVIDE 1/2" BALL VALVE AND PIPING WITH HOSE BIBB ADAPTER FOR PIPING 2 1/2" DIAMETER AND LARGER.

13 M600 MANUAL AIR VENT DETAIL

SCALE: NONE

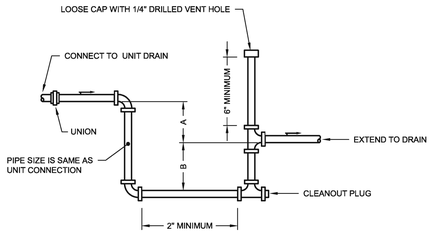


NOTE:

- TYPICAL CONSTRUCTION CONTROL JOINTS WILL BE APPROXIMATELY 1-1/4" DEEP. VERIFY EXACT DEPTH WITH GC.
- TOP OF TUBING SHALL BE A MINIMUM OF 2-1/4" BELOW THE TOP OF THE CONCRETE SURFACE. VERIFY PIPE DEPTH WITH GC AND ACTUAL DEPTH OF CONCRETE CONTROL JOISTS.

9 M600 HEATED EXTERIOR SLAB DETAIL

SCALE: NONE

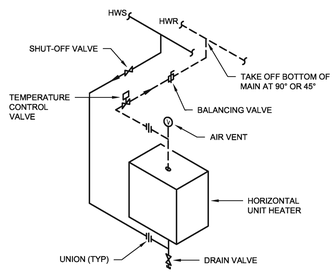


BLOW-THRU
A = MINIMUM (1/2)(B)
B = FAN TOTAL SP + 1"

DRAW-THRU
A = FAN NEGATIVE SP + 1"
B = MINIMUM (1/2)(A)

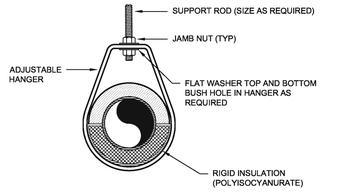
10 M600 LOOP SEAL FOR COOLING COIL CONDENSATE DRAIN

SCALE: NONE



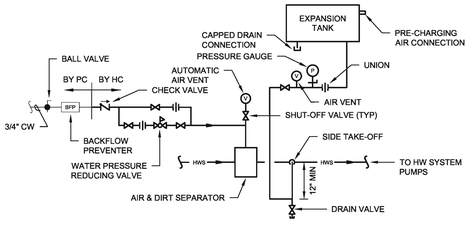
11 M600 HORIZONTAL HOT WATER UNIT HEATER PIPING DETAIL

SCALE: NONE



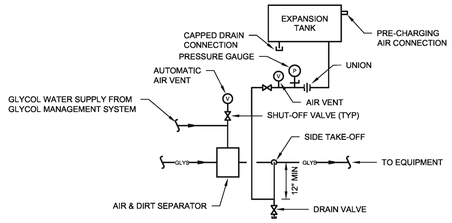
12 M600 TYPICAL PIPE SUPPORT DETAIL

SCALE: NONE



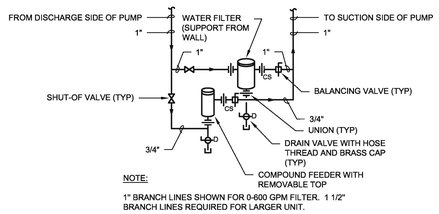
4 M600 BLADDER EXPANSION TANK DETAIL

SCALE: NONE — HOT WATER SYSTEM



5 M600 BLADDER EXPANSION TANK DETAIL

SCALE: NONE — GLYCOL WATER SYSTEM

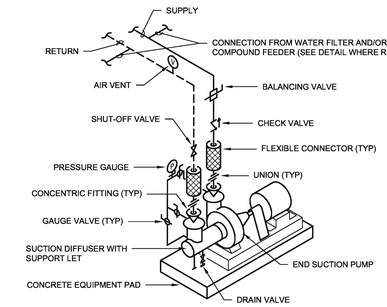


NOTE:

1" BRANCH LINES SHOWN FOR 0-600 GPM FILTER. 1 1/2" BRANCH LINES REQUIRED FOR LARGER UNIT.

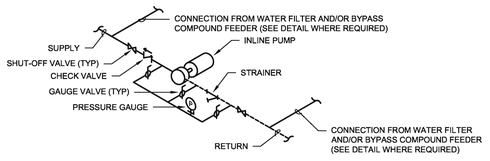
6 M600 WATER FILTER AND COMPOUND FEEDER PIPING DETAIL

SCALE: NONE



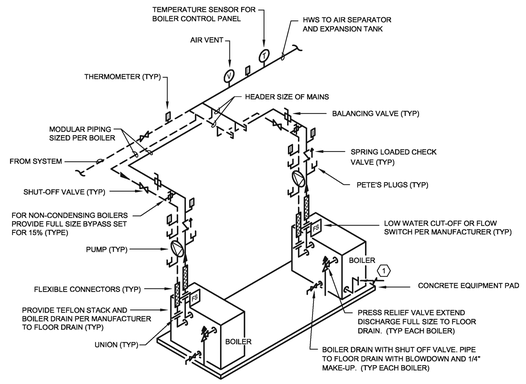
7 M600 END SUCTION BASE MOUNTED PUMP DETAIL

SCALE: NONE



8 M600 INLINE PUMP DETAIL

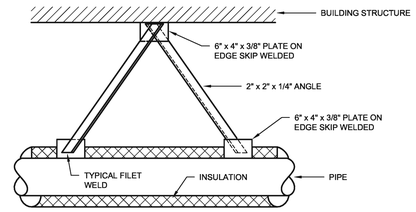
SCALE: NONE



NOTE:
PIPING SPECIALTIES AS SHOWN AND PER MANUFACTURER'S RECOMMENDATIONS (TYPICAL EACH BOILER).

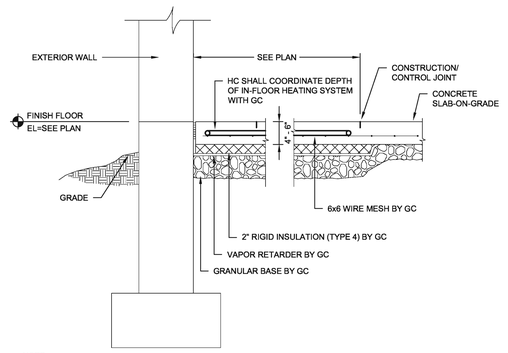
1 M600 HIGH EFFICIENCY BOILER PIPING DETAIL

SCALE: NONE



2 M600 PIPE ANCHOR DETAIL

SCALE: NONE



NOTE:

- TYPICAL INTERIOR (NON-GARAGE) SLAB WILL HAVE 4" DEPTH. VERIFY WITH STRUCTURAL DRAWINGS.
- TYPICAL GARAGE SLAB WILL HAVE A 6" DEPTH. VERIFY WITH STRUCTURAL DRAWINGS.
- HC TO FASTEN ALL INFLOOR TUBING TO GC PROVIDED 6"x6" WIRE MESH.
- TYPICAL CONSTRUCTION CONTROL JOINTS WILL BE APPROXIMATELY 1-1/4" DEEP. VERIFY EXACT DEPTH WITH GC.
- TOP OF TUBING SHALL BE A MINIMUM OF 2-1/4" BELOW THE TOP OF THE CONCRETE SURFACE. VERIFY PIPE DEPTH WITH GC AND ACTUAL DEPTH OF CONCRETE CONTROL JOISTS.

3 M600 SECTION AT IN-FLOOR HEATING SYSTEM

SCALE: NONE — INTERIOR BUILDING

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PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
HVAC PIPING DETAILS

DATE
01.12.15

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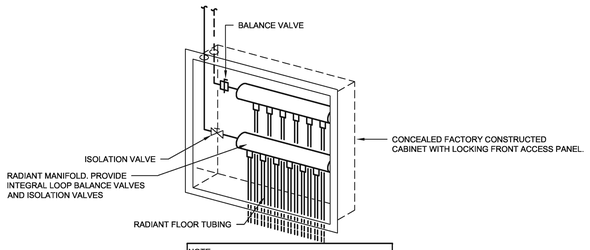
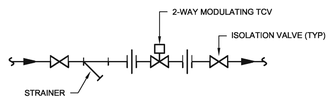
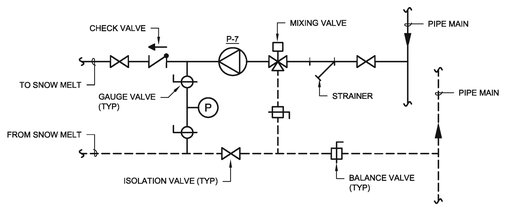
JDR Project No. 130099



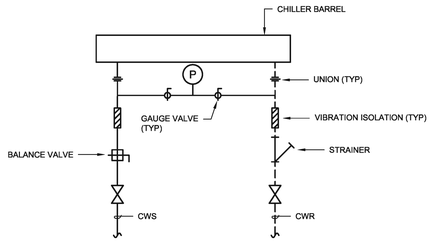
12 M600 SNOWMELT PIPING - MULTIPLE LOOPS IN ZONE - MANIFOLD DETAIL
SCALE: NONE CONCEALED CABINET - OFFICE / LAB



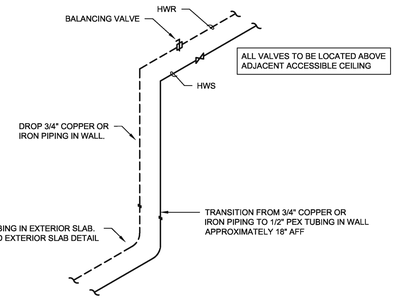
13 M601 BY-PASS VALVE DETAIL
SCALE: NONE



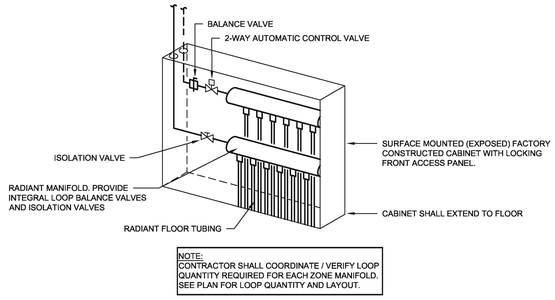
14 M601 MIXING VALVE DETAIL
SCALE: NONE



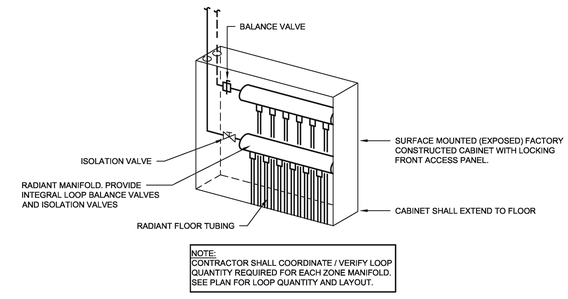
15 M601 CHILLER PIPING DETAIL
SCALE: NONE



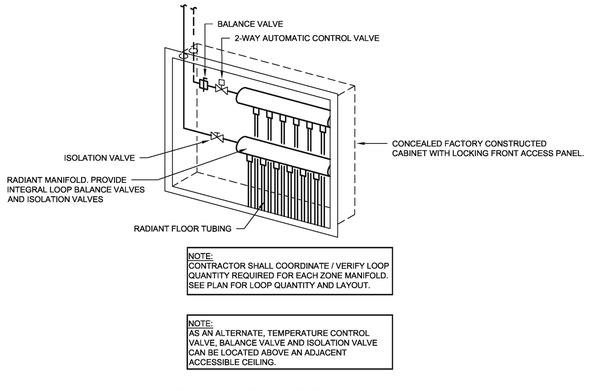
8 M601 SNOWMELT PIPING - SINGLE LOOP PIPE DETAIL
SCALE: NONE SNOWMELT RADIATION ONLY



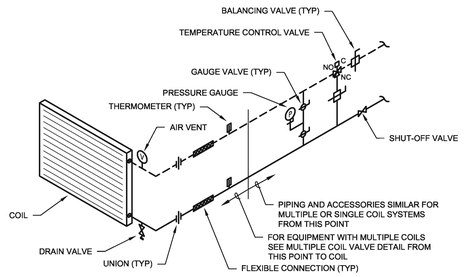
10 M600 RADIANT FLOOR PIPING - MULTIPLE LOOPS IN ZONE - MANIFOLD DETAIL
SCALE: NONE EXPOSED CABINET - GARAGE



11 M600 SNOWMELT PIPING - SINGLE OR MULTIPLE LOOPS IN ZONE - MANIFOLD DETAIL
SCALE: NONE EXPOSED CABINET - GARAGE

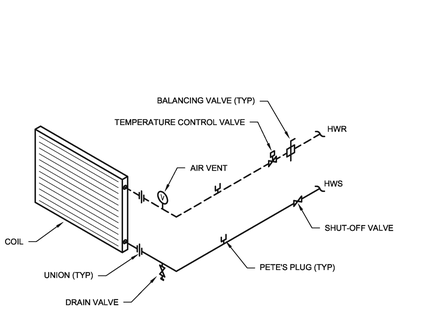


12 M600 RADIANT FLOOR PIPING - MULTIPLE LOOPS IN ZONE - MANIFOLD DETAIL
SCALE: NONE CONCEALED CABINET - OFFICE / LAB

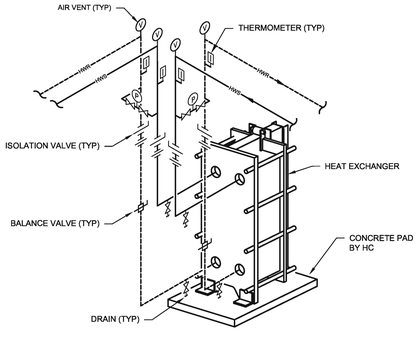


NOTE: LOCATE DRAIN VALVE AND AIR VENT IN PROVIDED LOCATIONS.

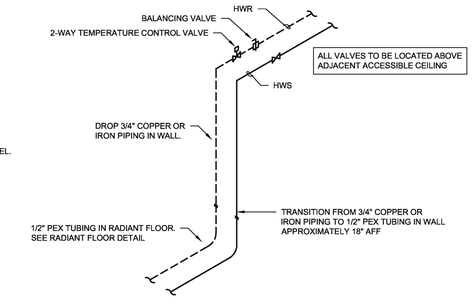
5 M601 AIR HANDLING UNIT HOT WATER COIL PIPING DETAIL
SCALE: NONE (WITH 3-WAY TCV)



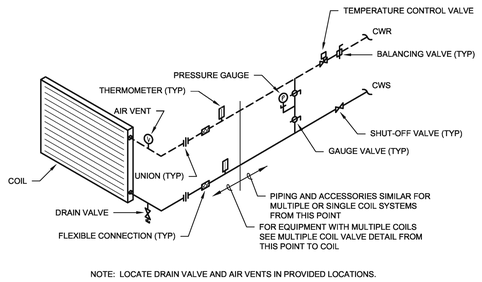
6 M601 BOOSTER COIL HOT WATER COIL PIPING DETAIL
SCALE: NONE (WITH 2-WAY TCV)



7 M601 HEAT EXCHANGER PIPING DETAIL
SCALE: NONE HX-1 & HX-2

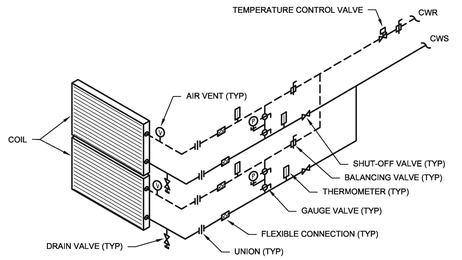


8 M601 RADIANT FLOOR PIPING - SINGLE LOOP PIPE DETAIL
SCALE: NONE INTERIOR FLOOR RADIATION ONLY

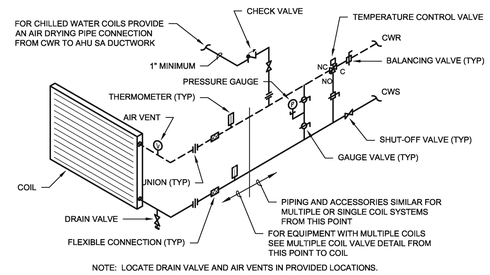


NOTE: LOCATE DRAIN VALVE AND AIR VENTS IN PROVIDED LOCATIONS.

1 M601 AIR HANDLING UNIT CHILLED WATER COIL PIPING DETAIL
SCALE: NONE (WITH 2-WAY TCV)

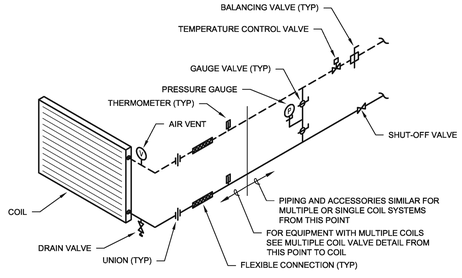


2 M600 MULTIPLE CHILLED WATER COIL PIPING DETAIL
SCALE: NONE



NOTE: LOCATE DRAIN VALVE AND AIR VENTS IN PROVIDED LOCATIONS.

3 M601 AIR HANDLING UNIT CHILLED WATER COIL PIPING DETAIL
SCALE: NONE (WITH 3-WAY TCV)



NOTE: LOCATE DRAIN VALVE AND AIR VENT IN PROVIDED LOCATIONS.

4 M601 AIR HANDLING UNIT HOT WATER COIL PIPING DETAIL
SCALE: NONE (WITH 2-WAY TCV)

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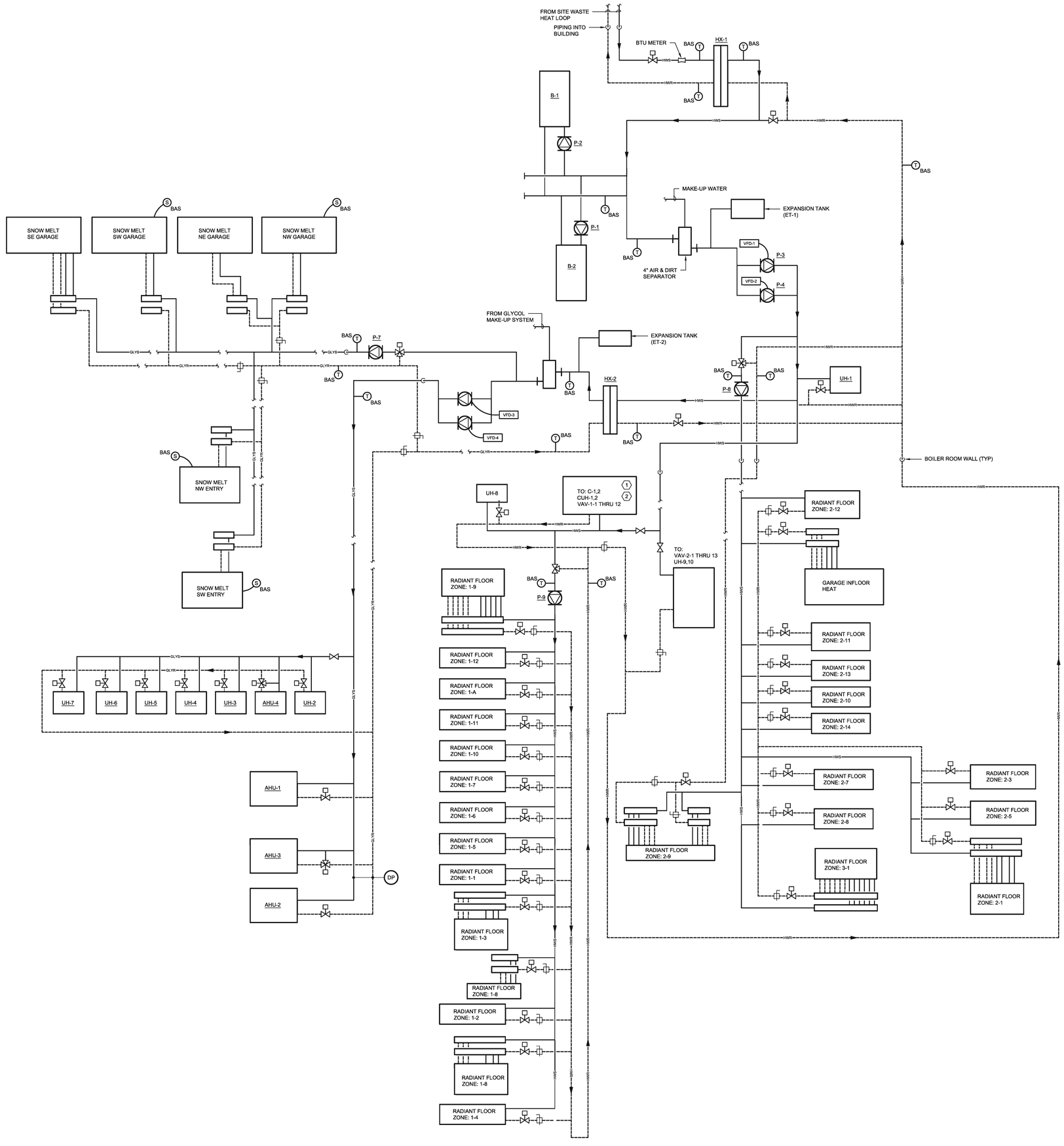
PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
HVAC PIPING DETAILS

DATE
01.12.15

M601



GENERAL NOTES:

1. SEE DRAWINGS M600 AND M601 FOR ADDITIONAL DETAILS.

KEYED NOTES:

(1) LOCATION OF HW BY-PASS VALVE. SEE M300 FOR EXACT LOCATION.

(2) LOCATION OF P-3 / P-4 DIFFERENTIAL PRESSURE SENSOR.

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PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
HVAC HOT WATER SCHEMATIC

DATE
01.12.15

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JDR Project No. 130099

M800

AIR DEVICE SCHEDULE

EG - 1 (3) 12x12/10"Ø 300
- UNIT NUMBER
- THROW (IF OTHER THAN NORMAL)
- NECK SIZE (SQ/RO)
- CFM

SG = SUPPLY GRILLE
RG = RETURN GRILLE
EG = EXHAUST GRILLE

LD = LINEAR DIFFUSER (SUPPLY)
CD = CEILING DIFFUSER (SUPPLY)
TG = TRANSFER GRILLE

UNIT NO.	SD-1	SD-2	CD-1	CD-2	CD-3	CD-4	CD-5	SG-1	SG-2	SR-1	SR-2	SR-3	RG-1	RG-2	EG-1	EG-2	EG-3	EG-4	EG-5	TG-1	TG-2	TG-3	TG-4	TG-5
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
MODEL NO.	TBDI-30	TBDI-30	TDCA-A	TDCA-A	TDCA-A	TDCA-A	TRI-TEC SS	300 FS	300 FS	300 FS	300 FS	300 FS	50F	63FS	350FL	350FL	350FL	50F	33R	350FL	350FL	350FL	50F	350RL-SS
FACE STYLE	SLOTTED	SLOTTED	LOUVERED	LOUVERED	LOUVERED	LOUVERED	LAMINAR	DOUBLE DEFLECT	DOUBLE DEFLECT	DOUBLE DEFLECT	DOUBLE DEFLECT	DOUBLE DEFLECT	EGGCRATE	LOUVERED	LOUVERED	LOUVERED	LOUVERED	LOUVERED	LOUVERED	LOUVERED	LOUVERED	LOUVERED	LOUVERED	EGGCRATE	LOUVERED
MATERIAL	STEEL	STEEL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	STAINLESS STEEL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	STEEL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	STAINLESS STEEL
SIZE (FACE/NECK)	(1) / 8"Ø	(2) / 10"Ø	9x9 / 6"Ø	12x12 / 8"Ø	12x12 / 10"Ø	15x15 / 12"Ø	48x24 / 12"Ø	20x8 / 18x6	14x10 / 12x8	14x8 / 12x6	20x10 / 18x8	44x22 / 42x20	24x24 / 22x22	14x32 / 12x30	10x10 / 8x8	14x14 / 12x12	20x20 / 18x18	24x24 / 22x22	12x20 / 10x18	14x14 / 12x12	14x14 / 12x12	20x8 / 18x6	24x24 / 22x22	38x20 / 36x18
CFM RANGE	125 - 210	215 - 360	75 - 105	110 - 245	250 - 330	340 - 475	200 - 500	75 - 150	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	75 - 140	145 - 325	570 - 655	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
MOUNTING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	SIDEWALL	SIDEWALL	SIDEWALL	DUCT	DUCT	CEILING	SIDEWALL	CEILING	CEILING OR SIDEWALL	CEILING	CEILING	SIDEWALL	CEILING	CEILING	CEILING	CEILING	CEILING
DAMPER	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
REMARKS			(3)	(3)	(3)	(3)																		

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

KEYED NOTES:
(1) (2) 3/4" SLOTS x 48"L.
(2) (4) 3/4" SLOTS x 48"L.
(3) PROVIDE 24x24 PANEL FOR LAY-IN APPLICATIONS AND BEVELED FRAME FOR HARD CEILING APPLICATIONS.

VAV TERMINAL UNIT WITH HOT WATER REHEAT SCHEDULE

UNIT NO.		VAV-1-1	VAV-1-2	VAV-1-3	VAV-1-4	VAV-1-5	VAV-1-6	VAV-1-7	VAV-1-8	VAV-1-9	VAV-1-10	VAV-1-11	VAV-1-12	VAV-2-1	VAV-2-2	VAV-2-3	VAV-2-4	VAV-2-5	VAV-2-6	VAV-2-7	VAV-2-8	VAV-2-9	VAV-2-10	VAV-2-11	VAV-2-12	VAV-2-13
SERVICE		SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
INLET SIZE		6	8	10	6	6	6	8	10	10	6	6	6	14	14	16	12	10	6	8	12	10	10	10	8	6
MAX PD (" WC)		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
AIRFLOW (CFM)	MAXIMUM	350	290	810	180	250	280	450	740	840	300	160	275	1760	1760	2760	1120	720	350	460	925	1210	1015	905	525	340
	MINIMUM	105	90	240	55	75	85	135	220	250	90	50	85	475	475	555	570	555	0	460	925	1210	270	905	140	340
	HEATING CFM	350	290	810	180	250	280	450	740	840	300	160	275	475	475	830	570	555	350	460	925	1210	270	905	140	340
HOT WATER REHEAT COIL DATA	EWT (°F)	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	LWT (°F)	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	EAT (°F)	55	55	55	55	55	55	55	55	55	55	55	55	48	48	48	48	48	48	48	48	48	48	48	48	48
	LAT (°F)	116.0	107.0	93.0	106.0	104.0	107.0	100.0	93.0	98.0	100.0	112.0	106.0	94.2	94.2	104.3	83.7	86.8	110.5	79.4	90.0	92.0	94.6	90.5	94.8	95.6
	CAPACITY (MBH)	23.0	16.3	33.3	9.9	13.2	15.8	21.8	30.6	39.3	14.5	9.9	15.3	23.7	23.7	50.5	22.0	23.0	23.6	15.6	42.0	57.6	13.6	41.5	7.1	17.5
	GPM	1.5	1.1	2.2	0.7	0.9	1.1	1.5	2.0	2.6	1.0	0.7	1.0	1.6	1.6	3.4	1.5	1.5	1.6	1.0	2.8	3.8	0.9	2.8	0.5	1.2
	MAX. WPD (FT WC)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	TCV TYPE	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY
REMARKS		(1)	(1)		(1)	(1)	(1)		(1)	(1)		(1)	(1)													

KEYED NOTES:
(1) VAV BOX TO BE INTERLOCKED AND CONTROLLED WITH OCCUPANCY SENSOR LOCATED IN THE SPACE.

FAN SCHEDULE

SF = SUPPLY FAN
RF = RETURN FAN
EF = EXHAUST FAN
TF = TRANSFER FAN
CF = CEILING (DESTRATIFICATION) FAN
CEF = CEILING EXHAUST FAN

UNIT NO.		EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7
LOCATION		ROOF	ROOF	GARAGE	GARAGE	ROOF	ROOF	ROOF
SERVICE		TLT/JC	LAB AREA	CHEM STORAGE	GARAGE	CHILLER RM	911 TOILETS	ELECT RM
FAN TYPE		ROOF	MIXED FLOW	INLINE	MIXED FLOW	ROOF	ROOF	ROOF
ARRANGEMENT		DOWN BLAST	UP BLAST	HORIZONTAL	HORIZONTAL	DOWN BLAST	DOWN BLAST	DOWN BLAST
DESIGN CFM		400.0	13800	300	5650	2120	300	940
EXT. SP (IN WC)		0.375	1.0	0.5	0.75	0.375	0.25	0.375
FAN WHEEL TYPE		BI	MIXED FLOW	-	MIXED FLOW	BI	BI	BI
FAN DIAMETER (IN)		9.0	-	8.0	16.0	16.0	8.0	9.0
APPROXIMATE FAN RPM		1000	1200	2750	1750	920	910	1511
BHP		0.07	9.6	-	2.0	0.35	0.05	0.16
MOTOR HP (W)		1/4	(2) 10.0	122W	3.0	1/2	1/4	1/4
VOLTS/PHASE		120/1	460/3	120/1	460/3	460/3	120/1	120/1
DRIVE		BELT	DIRECT	DIRECT	BELT	DIRECT	BELT	DIRECT
TWO SPEED		NO	NO	NO	NO	NO	NO	NO
VFD/FSC		NO	NO	FSC	NO	VFD	NO	FSC
MAX. SONES		5.6	-	-	22.0	10.6	3.8	10.7
MAX. FAN INLET AIR SOUND DATA SOUND POWER BY OCTAVE BAND (dB)	1	69	-	-	72	73	65	73
	2	67	-	-	76	76	63	76
	3	65	-	-	80	77	60	76
	4	58	-	-	80	68	53	68
	5	53	-	-	76	64	49	64
	6	51	-	-	74	60	43	63
	7	45	-	-	72	55	37	57
	8	42	-	-	63	49	34	51
REMARKS			(1)	(2)	(3)			

KEYED NOTES:
(1) THIS FAN IS MADE UP OF TWO FANS, ON FAN OPERATES 24/7 AND THE OTHER IS REDUNDANT TO THE FIRST.
(2) FAN TO BE EQUAL TO FANTECH MODEL FR-200 WITH BACKDRAFT DAMPER RSK-08.
(3) PROVIDE FAN WITH BELT TUBE AND SOUND ENCLOSURE.

PUMP SCHEDULE

UNIT NO.	P-1	P-2	P-3	P-4	P-5	P-6	P-7	P-8	P-9	P-10	P-11	P-12	P-13
SERVICE	BOILER (B-1)	BOILER (B-2)	HEATING HW	HEATING HW	GLYCOL HW	GLYCOL HW	SNOW MELT	INFLOOR (AHU-2)	INFLOOR (AHU-1)	WC-1 (PRIMARY)	WC-1 (PRIMARY)	WC-1 (SECONDARY)	WC-1 (SECONDARY)
LOCATION	MECHANICAL RM	MECHANICAL RM	MECHANICAL RM	MECHANICAL RM	MECHANICAL RM	MECHANICAL RM	MECHANICAL RM	MECHANICAL RM	RM 111	RM 154	RM 154	RM 154	RM 154
TYPE	INLINE	INLINE	BASE MOUNTED	BASE MOUNTED	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	BASE MOUNTED	BASE MOUNTED
CAPACITY GPM	108.0	108.0	216.0	216.0	144.0	144.0	24.0	13.0	10.0	304.0	304.0	304.0	304.0
PRESSURE HEAD (FT)	25.0	25.0	55.0	55.0	55.0	55.0	60.0	28.0	25.0	30.0	30.0	75.0	75.0
GLYCOL TYPE / %	N/A	N/A	N/A	N/A	PROP / 40%	PROP / 40%	PROP / 40%	N/A	N/A	PROP / 40%	PROP / 40%	PROP / 40%	PROP / 40%
INLET/OUTLET (IN)	3.0 / 3.0	3.0 / 3.0	2.5 / 2.0	2.5 / 2.0	2.5 / 2.5	2.5 / 2.5	1.5 / 1.5	1.5 / 1.5	1.5 / 1.5	5.0 / 5.0	5.0 / 5.0	4.0 / 3.0	4.0 / 3.0
IMPELLER DIAMETER	5.25	5.25	8.5	8.5	8.125	8.125	7.875	-	-	6.0	6.0	8.75	8.75
MIN. EFF. %	66%	66%	72%	72%	56%	56%	40%	-	-	64%	64%	71%	71%
RPM	1750	1750	1750	1750	1750	1750	1750	3300	3300	1750	1750	1750	1750
BHP	0.96	0.96	4.2	4.2	3.8	3.8	1.2	-	-	3.8	3.8	8.5	8.5
HP	1.5	1.5	7.5	7.5	5.0	5.0	3.0	1/6	1/6	5.0	5.0	15.0	15.0
VOLTAGE/PHASE	460/3	460/3	460/3	460/3	460/3	460/3	460/3	120/1	120/1	460/3	460/3	460/3	460/3
UNIT WEIGHT (LBS)	90.0	90.0	250.0	250.0	225.0	225.0	180.0	13.0	13.0	275.0	275.0	460.0	460.0
REMARKS													

EXHAUST VALVE SCHEDULE

UNIT NO.	EV-1	EV-2	EV-3	EV-4	EV-5	EV-6	EV-7	EV-8	EV-9	EV-10	EV-11	EV-12	EV-13	EV-14
SERVICE	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
INLET SIZE	DUAL 12	DUAL 12	DUAL 14	8	12	8	14	12	12	8	12	12	12	8
MAX. AIR PRESSURE DROP (WC)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
MAXIMUM CFM	2000	2000	2550	190	650	430	1160	1025	560	200	1050	650	1015	520
MINIMUM CFM	575	575	400	0	650	100	1160	1025	560	200	325	325	270	320
REMARKS														

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ISSUE
01.12.15 CONSTRUCTION DOCUMENTS

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
HVAC SCHEDULES

DATE
01.12.15

HOT WATER UNIT HEATER SCHEDULE

UNIT NO.	UH-1	UH-2	UH-3	UH-4	UH-5	UH-6	UH-7	UH-8	UH-9	UH-10
LOCATION	MECH RM	GARAGE	GARAGE	GARAGE	GARAGE	GARAGE	GARAGE	PENTHOUSE	CHILLER RM	ELECT RM
CAPACITY (MBH)	15.6	38.8	38.8	38.8	38.8	38.8	38.8	11.7	172.0	15.6
AIR FLOW	380	630.0	630.0	630.0	630.0	630.0	630.0	350.0	4200.0	380
FLUID	WATER	PROP / 40%	PROP / 40%	PROP / 40%	PROP / 40%	PROP / 40%	PROP / 40%	WATER	WATER	WATER
GPM	1.8	4.5	4.5	4.5	4.5	4.5	4.5	1.3	21.0	1.8
EWT/LWT (CFM)	175.0 / 147.0	175.0 / 147.0	175.0 / 147.0	175.0 / 147.0	175.0 / 147.0	175.0 / 147.0	175.0 / 147.0	175.0 / 147.0	175.0 / 147.0	175.0 / 147.0
WPD (FT)	0.14	0.17	0.17	0.17	0.17	0.17	0.17	0.0005	1.33	0.14
EAT (°F)	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	-15.0	60.0
MOTOR HP	9.0W	1/20	1/20	1/20	1/20	1/20	1/20	9.0W	1/3	9.0W
FAN SPEED (RPM)	1350.0	900.0	900.0	900.0	900.0	900.0	900.0	1350.0	1140.0	1350.0
MOUNTING	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL
TCV TYPE	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY	2-WAY
REMARKS										

WATER TO WATER HEAT EXCHANGER SCHEDULE

UNIT NO.		HX-1	HX-2	
SERVICE		BLDG HTG	GLYCOL SYSTEM	
TYPE		PLATE & FRAME	PLATE & FRAME	
MBH		3085.0	2396.0	
HOT SIDE DATA	FLUID	PROP / 30%	WATER	
	EWT (°F)	205.0	180.0	
	LWT (°F)	170.0	150.0	
	GPM	200.0	165.0	
	WATER PD (FT. WC)	9.7	8.5	
	FOULING FACTOR	0.000005	0.00004	
COLD SIDE DATA	FLUID	WATER	PROP / 40%	
	EWT (°F)	150.0	147.0	
	LWT (°F)	180.0	175.0	
	GPM	216.0	144.0	
	WATER PD (FT. WC)	11.2	11.4	
	FOULING FACTOR	0.000005	0.00004	
UNIT WEIGHT (LBS)		690.0 / 750.0	3525 / 3840.0	
REMARKS				

AIR COOLED WATER CHILLER SCHEDULE

UNIT NO.		CH-1		
SERVICE		BUILDING		
LOCATION		MECHANICAL RM		
COOLING CAPACITY (TONS)		154.0		
COMPRESSOR TYPE		SCREW		
NUMBER OF COMPRESSORS		2.0		
NUMBER OF CIRCUITS		2.0		
REFRIGERANT TYPE		R-134A		
ASSOCIATED CONDENSOR		ACC-1		
INPUT POWER		178.6		
FULL KW/TON		1.163		
IPLV/NPLV		1.031		
EVAPORATOR FLOW RATE (GPM)		331.0		
EWT (°F)		54.0		
LWT (°F)		42.0		
GLYCOL / %		PROP / 40%		
FOULING FACTOR		0.0001		
UNIT ELECT DATA	VOLTS	460.0		
	PHASE	3.0		
	MCA	318.0		
	MOCP	400.0		
UNIT WEIGHT (LBS)		7022.0		
REMARKS				

COMPUTER ROOM AIR CONDITIONING UNIT SCHEDULE

UNIT NO.	CRAC-1	CRAC-2
SERVICE	IT ROOM	IT ROOM
MANUFACTURER	LIEBERT	LIEBERT
MODEL NO.	VS077DUAOEI	VS077DUAOEI
AIR FLOW DATA		
AIR FLOW (CFM)	11000.0	11000.0
OA (CFM)	0.0	0.0
EXT. STATIC PRESSURE (IN)	0.4	0.4
FILTER TYPE	4" MERV 8	4" MERV 8
MOTOR HP	7.5	7.5
SUPPLY FAN VFD	YES	YES
HEATING DATA		
TYPE	FINNED TUBE SS	FINNED TUBE SS
CAPACITY (MBH)	85350.0	85350.0
KW / STAGE	25.0 / 3.0	25.0 / 3.0
HUMIDIFIER DATA		
TYPE	CANISTER	CANISTER
CAPACITY (LBS/HR)	11.0	11.0
KW	3.5	3.5
DX COOLING COIL DATA		
COOLING TYPE	R407C	R407C
TOTAL CAPACITY (MBH)	250.6	250.6
SENSIBLE CAPACITY (MBH)	238.2	238.2
EAT(°F) DB/WB	80.0	80.0
LAT (°F) DB/WB	67.2	67.2
COOLING COIL AREA	24.65	24.65
FACE VELOCITY (FPM)	446.0	446.0
MATED CONDENSING UNIT	ACC-2	ACC-3
CHILLED WATER COOLING COIL DATA		
FLUID	CHILLED WATER	CHILLED WATER
TOTAL CAPACITY (MBH)	255.2	255.2
SENSIBLE CAPACITY (MBH)	197.9	197.9
GPM	52.0	52.0
PERCENT GLYCOL	40% PROP GLYCOL	40% PROP GLYCOL
EWT (°F) / LWT (°F)	42.0 / 54.0	42.0 / 54.0
FLUID PRESSURE DROP (FT)	28.3	28.3
VALVE TYPE	3-WAY	3-WAY
INDOOR UNIT ELECTRIC DATA		
VOLTS/PHASE	460/3	460/3
FULL LOAD AMPS	64.4	64.4
WSA / OPD	77.8 / 90.0	77.8 / 90.0
REMARKS	(1)	(1)

KEYED NOTES:

(1) UNIT TO HAVE (2) SOURCES OF COOLING. DX/REFRIGERANT AND BUILDING CHILLED WATER.

AIR HANDLING UNIT SCHEDULE

UNIT NO.	AHU-1	AHU-2	AHU-3	AHU-4
SERVICE	OFFICE AREA	LAB AREA	911 CENTER	GARAGE
LOCATION	ROOF	ROOF	ROOF	GARAGE
AHU UNIT WEIGHT (LBS)	5400.0	8500.0	5450.0	1200.0
AIR FLOW (CFM) (1)	4925.0 / 1480.0	13850.0 / 6875.0	4680.0 / 1400.0	5600.0 / 5600.0
MIN. OA (CFM)	960.0	13850.0	300.0	5600.0
EXT. SP ("WG) (2)	1.4	1.75	0.75	1.5
TOTAL SP ("WG)	4.4	5.75	4.0	2.5
UNIT ARRANGEMENT	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL
UNIT FACE & BYPASS	N/A	N/A	N/A	N/A
VIBRATION ISOLATOR TYPE	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL
VIBRATION ISOLATOR DEFLECTION	-	-	-	-
SUPPLY AIR FAN				
FAN TYPE/DIAMETER	AF / 15.0	AF / 21.6	FC / 15	FC / 15
FAN RPM	3000.0	2345.0	2820.0	1090.0
MOTOR BHP	6.0	20.8	5.0	3.9
MOTOR HP	10.0	30.0	7.5	5.0
VOLTAGE/PHASE	460/3	460/3	460/3	460/3
VARIABLE FREQUENCY DRIVE (VFD)	YES	YES	NO	NO
RETURN AIR FAN				
FAN TYPE/DIAMETER	AF / 16.0	N/A	FC / 13.0	N/A
AIR FLOW (CFM) / ESP (IN WC)	3665.0 / 0.25	N/A	4380.0 / 0.25	N/A
FAN RPM	1480.0	N/A	2760.0	N/A
MOTOR BHP	0.98	N/A	2.5	N/A
MOTOR HP	1.5	N/A	5.0	N/A
VOLTAGE/PHASE	460/3	N/A	460/3	N/A
VARIABLE FREQUENCY DRIVE (VFD)	YES	N/A	YES	N/A
AIR FILTER (PRE-FILTER)				
MAX. FACE VELOCITY (FPM)	500.0 (MAX)	500.0 (MAX)	500.0 (MAX)	500.0 (MAX)
DEPTH (IN)	4.0	2.0	2.0	2.0
MERV	8.0	8.0	8.0	8.0
SP DROP (IN) CLEAN/DIRTY	0.35/1.0	0.08/0.60	0.08/0.60	0.08/0.60
AIR FILTER				
MAX. FACE VELOCITY (FPM)	500.0 (MAX)	500.0 (MAX)	500.0 (MAX)	500.0 (MAX)
DEPTH (IN)	4.0	4.0	4.0	4.0
MERV	13.0	13.0	13.0	13.0
SP DROP (IN) CLEAN/DIRTY	0.6 / 1.0	0.6 / 1.0	0.6 / 1.0	0.6 / 1.0
AIR FILTER (CHARCOAL)				
MAX. FACE VELOCITY (FPM)	500.0 (MAX)	500.0 (MAX)	500.0 (MAX)	500.0 (MAX)
DEPTH (IN)	12"	12"	12"	12"
MERV	15.0	15.0	15.0	15.0
SP DROP (IN) CLEAN/DIRTY	0.4/1.0	0.4/1.0	0.4/1.0	0.4/1.0
CHILLED WATER COOLING COIL				
EAT DB (°F)	78.1	95.0	76.0	N/A
EAT WB (°F)	64.9	75.0	63.3	N/A
LAT DB (°F)	55.0	48.0	55.0	N/A
LAT WB (°F)	54.0	47.0	54.0	N/A
MAX FINS / INCH - ROWS	12.0 / 5.0	12.0 / 12.0	8.0 / 8.0	N/A
TOTAL CAPACITY (MBH)	159.6	1203.2	128.8	N/A
SENSIBLE CAPACITY (MBH)	125.3	712.0	109.0	N/A
MAX FACE VELOCITY (FPM)	550	550	550	N/A
MAX APD (IN WC)	0.75	1.5	0.75	N/A
GPM	34.0	282.0	27.0	N/A
EWT DB (°F)	42	42	42.0	N/A
LWT DB (°F)	54.0	54.0	54.0	N/A
GLYCOL TYPE / %	PROP / 40%	PROP / 40%	PROP / 40%	N/A
MAX WPD (FT)	12.0	30.0	12.0	N/A
VALVE TYPE	3-WAY	2-WAY	3-WAY	N/A
HOT WATER HEATING COIL				
HEATING AIR FLOW (CFM)	1475	13850.0	4680.0	5600.0
EAT (°F)	14.7	-15.0	64.6	-15.0
LAT (°F)	55.0	55.0	90.0	70.0
CAPACITY (MBH)	64.5	1052.0	129.2	516.5
MAX. FACE VELOCITY (FPM)	600.0	600.0	600.0	600.0
MAX. APD (IN WC)	0.30	0.30	0.30	0.30
HOT WATER (GPM)	4.5	70.0	9.0	35.0
EWT (°F)	180.0	180.0	180.0	180.0
LWT (°F)	140.0	140.0	140.0	140.0
GLYCOL TYPE / %	PROP / 40%	PROP / 40%	PROP / 40%	PROP / 40%
MAX WPD (FT)	5.0	6.5	5.0	5.0
VALVE TYPE	2-WAY	2-WAY	3-WAY	3-WAY
REMARKS	(3)	(4)	(3)	(4)

KEYED NOTES:

(1) FIRST CFM IS THE UNIT MAX CFM AND THE SECOND IS THE MINIMUM FLOW CFM.

(2) ESP TO EXCLUDE PD OF UNIT COMPONENTS FURNISHED BY UNIT MANUFACTURER SUCH AS COILS, FILTERS.

(3) OUTSIDE AIR, RETURN AIR AND RELIEF AIR DAMPERS BY UNIT MANUFACTURER. ACTUATORS BY SECTION 23 09 14.

(4) OUTSIDE AIR DAMPER BY UNIT MANUFACTURER. ACTUATORS BY SECTION 23 09 14.

HOT WATER CABINET UNIT HEATER SCHEDULE

UNIT NO.	CUH-1	CUH-2	
LOCATION	VESTIBULE	VESTIBULE	
NOMINAL SIZE	04	04	
CAPACITY (MBH)	25.8	25.8	
AIR FLOW (CFM)	345.0	345.0	
GPM	2.5	2.5	
EWT/LWT (°F)	200.0 / 170.0	200.0 / 170.0	
WPD (FT)	0.41	0.41	
EAT (°F)	60	60	
MOTOR HP	1/10	1/10	
FAN SPEED	845.0	845.0	
INVERTED FLOW	N/A	YES	
MOUNTING	CEILING	WALL	
RECESS (IN)	FULL	N/A	
TCV SIZE	2-WAY	2-WAY	
REMARKS			

HOT WATER BOILER SCHEDULE

UNIT NO.	B-1	B-2	
SERVICE	HW HEAT	HW HEAT	
LOCATION	BOILER ROOM	BOILER ROOM	
TYPE	SEALED COMB.	SEALED COMB.	
GAS TYPE	NATURAL	NATURAL	
GAS INPUT (CFH)	2500.0	2500.0	
RATED IBR/AGA OUTPUT (MBH)	2170.0	2170.0	
EWT (°F)	170.0	170.0	
LWT (°F)	200.0	200.0	
HOT WATER (GPM)	145.0	145.0	
GLYCOL (%)	0.0	0.0	
VENT/INTAKE DIA (IN)	8.0 / 8.0	8.0 / 8.0	
WATER CONNECTION DIA (IN)	4"	4"	
VOLTAGE/PHASE	460/3	460/3	
MINIMUM CIRC AMPS (MCA)	3.7	3.7	
UNIT WEIGHT (LBS)	2052.0	2052.0	
REMARKS	(1)	(1)	

KEYED NOTES:

(1) PROVIDE GAS REGULATORS AS REQUIRED.

AIR COOLED CONDENSER SCHEDULE

UNIT NO.	ACC-1	ACC-2	ACC-3
SERVICE	CH-1	CRAC-1	CRAC-2
LOCATION	ROOF	ROOF	ROOF
REFRIGERANT TYPE	R134A	R407C	R407C
COOLING CAPACITY (TONS)	154.0	22.8	22.8
# OF CIRCUITS	2.0	2.0	2.0
AMBIENT AIR TEMPERATURE	95.0	95.0	95.0
NUMBER OF FANS	12.0	2.0	2.0
FAN HP (EACH)	1.5	-	-
FAN RPM	1140.0	-	-
COIL (ROWS/FPI)	1.0 / 14.0	-	-
UNIT ELECT. DATA VOLTS	460.0	460.0	460.0
PHASE	3	3	3
MCA	43.0	3.3	3.3
MOCP	50.0	15.0	15.0
UNIT WEIGHT (LBS)	4915.0	441.0	441.0
REMARKS			

EXPANSION TANK SCHEDULE

UNIT NO.	ET-1	ET-2	ET-3
LOCATION	MECH RM	MECH RM	CHILLER RM
SYSTEM	HWS/HWR	GLYS/GLYR	CWS/CWR
RELIEF VALVE SETTING	50 PSIG	50 PSIG	50 PSIG
PERCENT GLYCOL	N/A	40%	40%
MIN. TANK VOLUME (GAL)	16.5	25.9	20.3
ACCEPTANCE VOLUME (GAL)	9.7	15.8	12.4
DIAMETER (IN)	16.0	16.0	16.0
HEIGHT OR LENGTH (IN)	30.0	57	57.0
DESIGN CODE (ANSI/ASME)	ASME	ASME	ASME
SUPPORT	STRUCTURE	STRUCTURE	STRUCTURE
REMARKS			

HOT WATER CONVECTOR SCHEDULE

UNIT NO.	C-1	C-2	
LOCATION	104	157	
MOUNTING	WALL	WALL	
RECESS	FULL	FULL	
SIZE (LxWxD)	24x18x4	24x18x4	
EAT (°F)	65	65	
CAPACITY (MBH)	2.4	2.4	
GPM	0.5	0.5	
EWT/LWT (°F)	180 / 160	180 / 160	
TCV TYPE	2-WAY	2-WAY	
REMARKS			

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PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
HVAC SCHEDULES

DATE
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VARIABLE FREQUENCY DRIVE SCHEDULE

UNIT NO.	VFD-1	VFD-2	VFD-3	VFD-4	VFD-5	VFD-6	VFD-7	VFD-8	VFD-9	VFD-10	VFD-11	VFD-12
SERVICE	P-3	P-4	P-5	P-6	P-12	P-13	AHU-1 (SF)	AHU-1 (RF)	AHU-2	AHU-3 (SF)	AHU-3 (RF)	EF-5
LOCATION	MECH RM	MECH RM	MECH RM	MECH RM	CHILLER RM	CHILLER RM	ROOF	ROOF	ROOF	ROOF	ROOF	CHILLER RM
BYPASS REQUIRED	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	NO
HP	7.5	7.5	5.0	5.0	15.0	15.0	7.5	1.5	25.0	7.5	3.0	0.5
VOLTS	460	460	460	460	460	460	460	460	460	460	460	460
PHASE	3	3	3	3	3	3	3	3	3	3	3	3
REMARKS	⟨1⟩	⟨1⟩	⟨1⟩	⟨1⟩	⟨1⟩	⟨1⟩	⟨1⟩	⟨1⟩	⟨1⟩	⟨1⟩	⟨1⟩	⟨1⟩

SILENCER SCHEDULE

TAG	QTY	FAN SYSTEM	FAN DIMENSION W (IN)	FAN DIMENSION H (IN)	LENGTH (IN)	FLOW CFM	VELOCITY FT/MIN	SILENCER P.D. (IN WG)	P.D. INCL. SYSTEM EFFECTS (IN WG)	DYNAMIC INSERTION LOSS 63	125	250	500	1000	2000	4000	8000	VIBRO-ACOUSTICS MODEL	NOTES
SL-EF-4	1	EF-4	20 ID	28 OD	20	5650	-2590	0.05	0.13	2	3	9	14	22	20	14	7	CD-HV-F2	1,2,3,4
										46	33	32	38	16	15	31	33		
SL-EF-2A	1	EF-2	104	95	28	13850	-1539	0.09	0.3	16	22	24	22	22	18	17	14	PLN-MHV-FX	1,2,3,4,5
										56	52	51	51	52	49	38	29		
SA-4	1	AHU-4	28	28	84	5600	1029	0.1	0.17	6	8	19	36	44	33	22	18	RD-HV-F8	1,2,3,4
										56	46	38	37	37	35	24	24		

KEYED NOTES:

⟨1⟩ CONTRACTOR/SILENCER MANUFACTURER SHALL PROVIDE ACOUSTICAL ANALYSIS SHOWING SILENCER MEETS NC LEVEL AS SCHEDULED.

⟨2⟩ CONTRACTOR/SILENCER MANUFACTURER MUST PROVIDE PRESSURE DROP CALCULATIONS WITH PE STAMP TO DEMONSTRATE THE PRESSURE DROP INCLUDING SYSTEM EFFECT AS SCHEDULED DURING SUBMITTAL REVIEW.

⟨3⟩ ALTERNATIVE SILENCER MANUFACTURER MUST PROVIDE SILENCER INTERNAL GEOMETRY FOR ENGINEER'S APPROVAL DURING SUBMITTAL REVIEW.

⟨4⟩ FOR NON-BASIS OF DESIGN PRODUCT SUPPLIED, CONTRACTOR IS FINANCIALLY RESPONSIBLE TO ENSURE NOISE CONTROL SOLUTION IS DELIVERED AS PER NC LEVELS IN SPACES.

⟨5⟩ CUSTOM BUILT PLENUM SILENCER: MULTIPLE INLETS PER PLANS AND LAYOUT DRAWING AND (2) 36(48)x36 OUTLETS.

NOISE CONTROL CURB SCHEDULE

UNIT TAG	NCC-1 (AHU-1)	NCC-2 (AHU-2)	NCC-3 (AHU-3)		
TYPE	NC-VCR(SL)	NC-RC(SL)	NC-VCR(SL)		
CURB HEIGHT (IN)	30	14	30		
SUPPLY SILENCER					
PRESSURE DROP (IN WG)	0.14	0.29	0.2		
WIDTH (IN)	60	28	20		
HEIGHT (IN)	14	40(52)	30		
LENGTH (IN)	30	96	96		
RETURN SILENCER					
PRESSURE DROP (IN WG)	0.24	N/A	0.11		
WIDTH (IN)	18	N/A	20		
HEIGHT (IN)	36	N/A	30		
LENGTH (IN)	84	N/A	84		
MINIMUM DEFLECTION (IN)	3	N/A	3		
SEISMIC RESTRAINT REQUIRED	YES	YES	YES		
SEISMIC COMPONENT IMPORTANCE FACTOR (Ip)	1.5	1.5	1.5		
SEISMIC COMPONENT AMPLIFICATION FACTOR (Ap)	-	-	-		
REMARKS	1,3,4,5,8,9	1,2,3,4,6,7,8,9	1,2,3,4,6,7,8,9		

TYPE:

NC-VCR(SL) - ADJUSTABLE SPRING NOISE CONTROL CURB C/W SILENCERS AND ACOUTIC BARRIER.

NC-RC(SL) - NOISE CONTROL CURB WITH SILENCER AND ACOUSTIC BARRIER.

NOTES:

1. BASIS OF DESIGN: VIBRO-ACOUSTICS.
2. THER IS 10" PRE-CAST PLANK BELOW AHU-3, NO ACOUSTIC BARRIER IS REQUIRED.
3. INTERNAL ISOLATORS IN THE AHU HAVE TO BE EITHER REMOVED OR LOCKED UP
4. CURB MOUNTED AIR HANDLING UNITS SHALL BE MOUNTED ON VIBRO-ACOUSTICS TYPE VCR ROOF TOP SPRING ISOLATION AND SOUND CONTROL CURB CONSISTING OF GALVANIZED CURB SECTIONS WITH INTEGRAL VERTICAL AND LATERALLY RESTRAINED ISOLATORS FORMED TO FIT THE CONTRACTOR SUPPLIED ROOFTOP EQUIPMENT. THE SPRING ISOLATION CURB AND ACOUSTICAL TREATMENT PACKAGE SHALL PROVIDE A SPACE AND ADJACENT SPACE NOISE CRITERIA (NC) AS SCHEDULED.
   a. SUBMIT ACOUSTICAL CALCULATIONS TO DEMONSTRATE RESULTANT DUCTBORNE NOISE LEVELS IN THE OCCUPIED SPACES MEET SCHEDULED NC LEVEL.
   b. SUBMIT ACOUSTICAL CALCULATIONS TO DEMONSTRATE RESULTANT DUCT BREAKOUT NOISE LEVELS IN THE OCCUPIED SPACES MEET SCHEDULED NC LEVEL.
   c. SUBMIT ANALYSIS TO DEMONSTRATE THAT NOISE TRANSMISSION THROUGH THE ROOF WILL NOT EXCEED SCHEDULED NC LEVEL.
   d. SUBMIT ANALYSIS TO DEMONSTRATE THAT VIBRATION TRANSMISSION THROUGH THE BUILDING STRUCTURE WILL NOT CONTRIBUTE TO LEVELS IN EXCESS OF SCHEDULED NC LEVEL.
   e. SUBMIT CALCULATIONS AND PE STAMP TO DEMONSTRATE THAT CODE REQUIREMENTS HAVE BEEN MET FOR SEISMIC RESTRAINT DESIGN.
   f. SUBMIT CALCULATIONS AND PE STAMP TO DEMONSTRATE THAT CODE REQUIREMENTS HAVE BEEN MET FOR WIND RESTRAINT DESIGN.
   g. SUBMIT CALCULATIONS TO DEMONSTRATE THAT INSTALLED PRESSURE DROP WILL BE NO GREATER THAN SCHEDULED VALUES FOR SUPPLY AND RETURN AIR PATHS.
5. AHU-1 RETURN AIR SILENCER IS CUSTOM BUILT TRANSITIONAL ELBOW SILENCER: INLET 18x36; OUTLET: 14x34; CASING TO BE HTL EQUIVALENT TO 12 GAUGE DUCT WALL TO CONTROL BREAKOUT NOISE.
6. AHU-3 SUPPLY AIR SILENCER IS CUSTOM BUILT TRANSITIONAL ELBOW SILENCER: INLET 14x60; OUTLET 20x30; CASING TO BE HTL EQUIVALENT TO 18 GAUGE DUCT WALL TO CONTROL BREAKOUT NOISE.
7. AHU-3 RETURN AIR SILENCER IS CUSTOM TRANSITIONAL ELBOW SILENCER: INLET 20x30; OUTLET 34x14.
8. SUBMIT PRESSURE DROP INCLUDING SYSTEM EFFECTS.
9. AHU-2 SUPPLY SILENCER IS CUSTOM BUILT ELBOW SILENCER C/W RLP ACOUSTIC LINING; 28x40(52); CASING TO BE HTL EQUIVALENT TO 8 GAUGE DUCT WALL TO CONTROL BREAKOUT. A PORTION OF THE SILENCER EXTENDS IN THE CURB; THE LINING SHALL CONSIST OF MEDIA, AND SPECIFIED MEDIA PROTECTION, PROTECTED BY A GALVANIZED PERFORATED METAL LINER. IT IS NOT ACCEPTABLE TO SUPPLY A STANDARD SILENCER WITH TE SCHEDULED CASING SIZE AND A REDUCER TO THE SCHEDULED CONNECTION SIZE. ANY ALTERNATE TO RLP WILL NOT BE CONSIDERED AND WILL BE REJECTED.
10. SUBMIT WRITTEN GUARANTEE THAT SPACE NOISE LEVEL DUE TO DUCT BORNE, BREAKOUT, VIBRATION AND NOISE TRANSMISSION THROUGH ROOF WILL NOT EXCEED SPECIFIED LEVELS. IF THE NOISE LEVEL IN THE OCCUPIED SPACES EXCEEDS THE SPECIFIED NOISE CRITERIA (NC) LEVEL, IT WILL BE THE FINANCIAL RESPONSIBILITY OF THE NOISE CONTROL CURB MANUFACTURER TO PROVIDE PRODUCT AND LABOR TO ACHIEVE THE SPECIFIED CRITERIA. ADDITIONAL NOISE CONTROL REQUIRED AS A RESULT OF THE PURCHASE OF NOISIER AIR HANDLING UNITS WILL BE THE FINANCIAL RESPONSIBILITY OF THE PURCHASING CONTRACTOR. THE CONTRIBUTION OF OTHER NOISE SOURCES, INCLUDING BUT NOT LIMITED TO DAMPERS, DUCT REGENERATED NOISE, AND DIFFUSERS IS EXCLUDED FROM THIS GUARANTEE. THE TOTAL NOISE CONTRIBUTION FROM SOURCE OTHER THAN THE AHU'S MUST BE AT LEAST 5 db BELOW THE SPECIFIED NOISE CRITERIA.

EQUIPMENT SOUND POWER SCHEDULE

UNIT NO.		AHU-1	AHU-2	AHU-3	AHU-4
MAXIMUM SOUND POWER BY OCTAVE BAND (DB RADIATED AT CASING)	63HZ	75	84	75	74
	125HZ	82	91	82	81
	250HZ	73	81	72	71
	500HZ	70	79	70	69
	1K HZ	63	72	63	82
	2K HZ	51	60	51	50
	4K HZ	37	46	37	36
	8K HZ	28	37	28	27
MAXIMUM SOUND POWER BY OCTAVE BAND (DB AT UNIT INLET)	63HZ	76	84	76	83
	125HZ	82	91	82	85
	250HZ	78	81	75	82
	500HZ	73	79	76	81
	1K HZ	70	72	70	70
	2K HZ	64	60	64	58
	4K HZ	80	46	60	48
	8K HZ	52	37	52	28
MAXIMUM SOUND POWER BY OCTAVE BAND (DB AT UNIT DISCHARGE)	63HZ	82	91	81	86
	125HZ	84	93	83	88
	250HZ	81	90	80	86
	500HZ	82	91	81	87
	1K HZ	76	85	75	81
	2K HZ	70	79	69	75
	4K HZ	66	75	65	71
	8K HZ	58	67	57	63
REMARKS					

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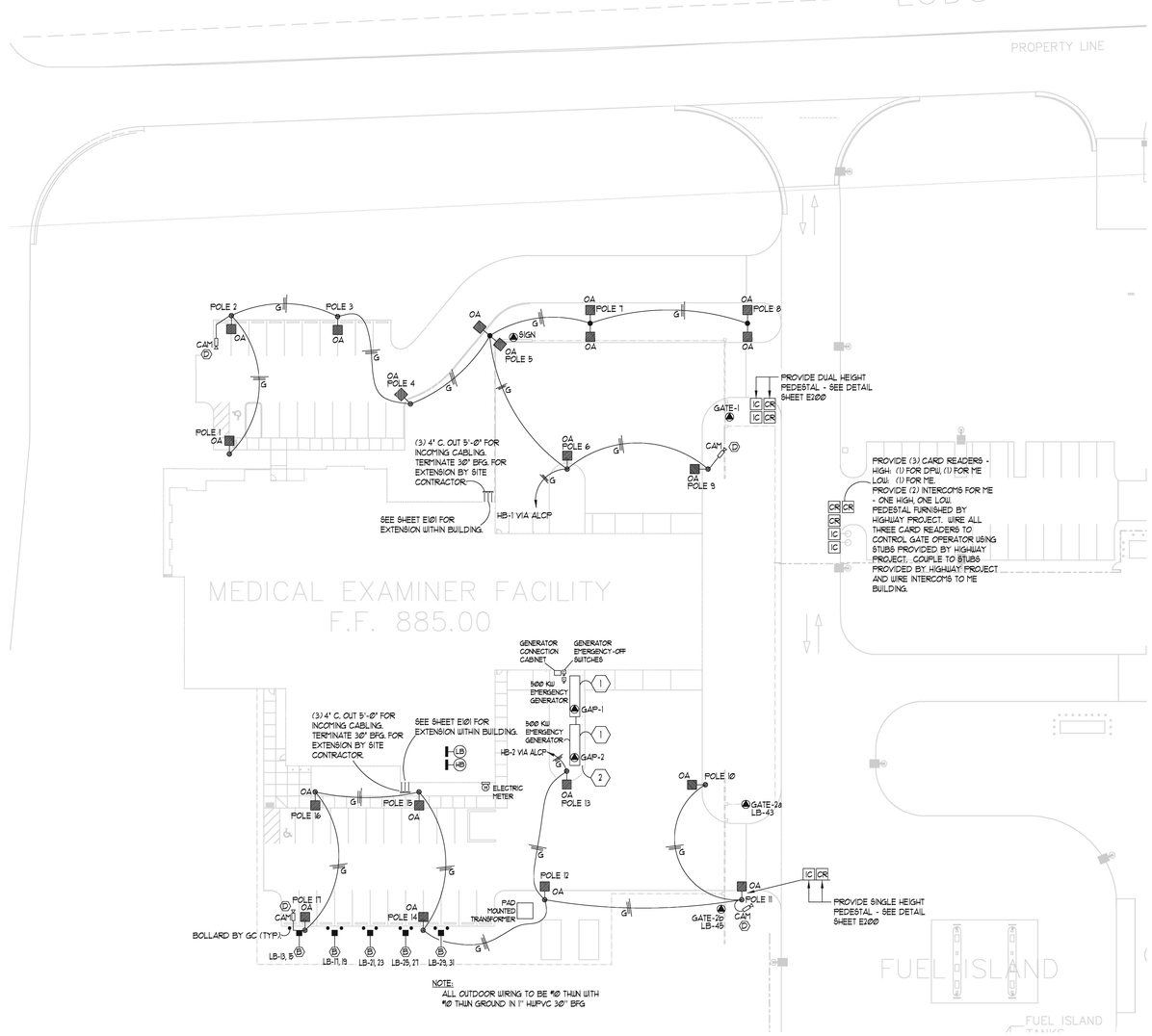


NOTE:
ALL OUTDOOR WIRING TO BE #Ø THWN WITH #Ø THWN GROUND IN 1" HUPVC 36" BFG

1 ELECTRICAL SITE PLAN
1"=30'-0"

KEYED NOTES:

1. PROVIDE 12" THICK CONCRETE PAD 12" LARGER THAN GENERATOR FOOTPRINT ON ALL SIDES. PROVIDE #4 REBAR EACH WAY.
2. BOLLARDS BY GC - TYPICAL.

ELECTRICAL SYMBOLS

- FLUORESCENT STRIP
- FLUORESCENT FIXTURE
- RECESSED FIXTURE
- SURFACE FIXTURE
- WALL MOUNTED FIXTURE
- SINGLE POLE TOGGLE SWITCH (3) THREE WAY (4) FOUR WAY (K) KEY (P) PILOT LIGHT (OS) OCCUPANCY SENSOR MOUNT 48" ABOVE FLOOR TO TOP OF BOX (T) DIGITAL TIMER SWITCH Ø-12 HOURS
- DUAL LEVEL SWITCH (3) THREE WAY (4) FOUR WAY (K) KEY (P) PILOT LIGHT (OS) OCCUPANCY SENSOR MOUNT 48" ABOVE FLOOR TO TOP OF BOX.
- WALL BOX DIMMER - MOUNT 48" ABOVE FLOOR TO TOP OF BOX. LUTRON NOVA T+ OR EQUAL (UNLESS NOTED OTHERWISE) SIZED AS REQUIRED.
- ORI LIGHTING OVER-RIDE SWITCH
- SWITCH AND DUPLEX RECEPTACLE IN SAME BOX - MOUNT 48" ABOVE FLOOR TO TOP OF BOX.
- DUPLEX RECEPTACLE 15" ABOVE FLOOR TO BOTTOM OF BOX OR HEIGHT AS INDICATED
- DOUBLE DUPLEX RECEPTACLE 15" ABOVE FLOOR TO BOTTOM OF BOX OR HEIGHT AS INDICATED
- DOUBLE DUPLEX RECEPTACLE ABOVE COUNTER
- DUPLEX RECEPTACLE HORIZONTAL ABOVE COUNTER
- DUPLEX RECEPTACLE FLUSH IN FLOOR, OR (P) PEDESTAL MOUNTED
- TELEPHONE OUTLET 15" ABOVE FLOOR TO BOTTOM OF BOX - (W) WALL PHONE
- TELEPHONE OUTLET FLUSH IN FLOOR, OR (P) PEDESTAL MOUNTED
- VOICE/DATA OUTLET, (MOP) INSTALLED IN MODULAR OFFICE PARTITION
- SPECIAL OUTLET
- MOTOR
- DISCONNECT SWITCH
- JUNCTION BOX
- PUSH-BUTTON - 52" MAX. IF SIDE ACCESSIBLE OR 48" MAX. IF FORWARD ACCESSIBLE ONLY. HEIGHT MEASURED FROM FLOOR TO TOP OF BOX.
- BELL
- MULTIOUTLET ASSEMBLY - WIREMOLD ALDS4Ø00
- TV TELEVISION OUTLET 15" ABOVE FLOOR TO BOTTOM OF BOX OR HEIGHT AS INDICATED
- C CONTACTOR
- TC TIME CLOCK
- DS DAYLIGHT SENSOR
- OS OCCUPANCY SENSOR
- M MICROPHONE JACK
- EMERGENCY BATTERY UNIT, WALL MOUNTED
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- FLUSH IN CEILING SPEAKER
- SURFACE CEILING SPEAKER
- WALL MOUNTED SPEAKER
- CAM SURVEILLANCE CAMERA
- ELECTRICAL PANEL
- MD MOTION DETECTOR
- DETAIL NUMBER
- NOTE OR DETAIL SYMBOL
- SHEET LOCATION
- WSAP WATER SENSOR ALARM PANEL
- WS WATER SENSOR
- EM GEN PM-SC EMERGENCY GENERATOR SYSTEM CONTROLLER
- WAP WIRELESS ACCESS POINT - OFCI
- BR BACKUP RADIO OUTLET - EXTEND 3/C RADIO CABLE (OFCI) TO 911 COMMUNICATIONS RACK IN 140.
- RF RF OUTLET - EXTEND (1) RG6 TO COMMUNICATIONS RACK IN 140.
- DF DEAD FRONT GFCI - WIRE TO ADJACENT INACCESSIBLE RECEPTACLE.
- MON VIDEO MONITOR OFCI
- TGB TELECOMMUNICATIONS GROUND BUS
- MGB MAIN GROUND BUS
- PV PHOTOVOLTAIC SYSTEM MONITORING PANEL

FIRE ALARM SYMBOLS

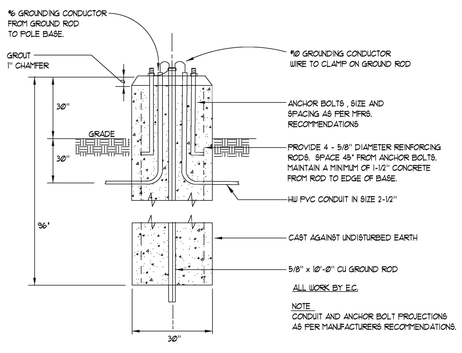
- FACP FIRE ALARM CONTROL PANEL
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM PULL STATION 48" AFF
- SPEAKER/STROBE 8Ø" AFF TO BOTTOM OF BOX OR 6" DOWN FROM CEILING TO TOP OF BOX WHICHEVER IS LOWER
- PULL STATION WITH NEW SPEAKER/STROBE 8Ø" AFF ABOVE
- S INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR
- H INTELLIGENT 135°F FIXED & RATE OF RISE 2Ø°F/M UNLESS NOTED ON THE PLANS
- D INTELLIGENT PHOTOELECTRIC DUCT SMOKE DETECTOR WITH SAMPLING TUBE
- MM ADDRESSABLE MONITOR MODULE
- CM ADDRESSABLE CONTROL MODULE
- TS SPRINKLER TAMPER SWITCH (PROVIDE ADDRESSABLE MODULE)
- FS SPRINKLER FLOW SWITCH (PROVIDE ADDRESSABLE MODULE)
- DH MAGNETIC DOOR HOLDER (SEN) SENTRONIC
- ES ELECTRIC DOOR STRIKE
- FIRE ALARM STROBE - ADA RATED 8Ø" TO BOTTOM OF BOX OR 6" DOWN FROM CEILING TO TOP OF BOX WHICHEVER IS LOWER
- SD SMOKE DAMPER
- RTS/I REMOTE TEST SWITCH AND/OR INDICATOR

SECURITY SYMBOLS

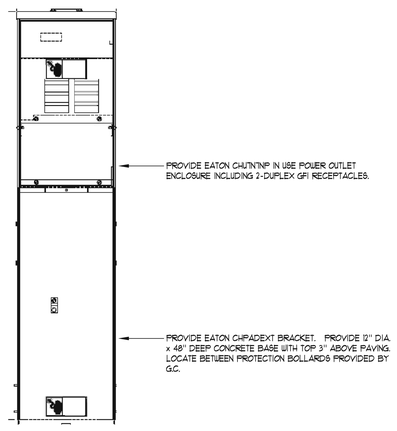
- SACP SECURITY ALARM CONTROL PANEL
- CR CARD READER
- DC DOOR CONTACT
- ES ELECTRIC STRIKE
- IC INTERCOM
- ML MAGNETIC LOCK
- PB PANIC BUTTON - EXTEND CAT6 TO SECURITY ALARM CONTROL PANEL. ACTIVATION TO CREATE SILENT ALARM OFF-SITE.
- S ALARM SIREN
- KP KEY PAD / ANNUNCIATOR
- REX REQUEST TO EXIT SENSOR

ABBREVIATIONS

AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFG	BELOW FINAL GRADE
BOL	BUILT-IN OVERLOAD
C	CONDUIT
CKT	CIRCUIT
CLG	CEILING
CB	COMBINATION STARTER
D	DEDICATED
DD	DOUBLE DUPLEX
EC	ELECTRICAL CONTRACTOR
EUC	ELECTRIC WATER COOLER
ER	EXISTING TO BE REMOVED
ERL	EXISTING RELOCATED (NEW LOCATION)
ETL	EXISTING TO BE RELOCATED (OLD LOCATION)
EX	EXISTING TO REMAIN
FACP	FIRE ALARM CONTROL PANEL
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
HV	HEATING AND VENTILATION CONTRACTOR
IG	ISOLATED GROUND
IR	IN ROOM
IU	IN UNIT
MAN	MANUAL STARTER
MAG	MAGNETIC STARTER
MCA	MINIMUM CIRCUIT AMPACITY
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NU	NEAR UNIT
OFOI	OWNER FURNISHED OWNER INSTALLED
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PB	PUSHBUTTON
PC	PLUMBING CONTRACTOR
PW	PRE-WIRED
RV	REDUCED VOLTAGE STARTER
RAI	REMAIN AS IS
SACP	SECURITY ACCESS CONTROL PANEL
SC	SEPARATE CIRCUIT
SS	SPEED SWITCH
SW	SWITCH
TC	TIMECLOCK
TS	THERMOSTAT
UM	UNIT MANUFACTURER
WP	WEATHERPROOF



A POLE BASE DETAIL
NOT TO SCALE



B PEDESTAL RECEPTACLE DETAIL
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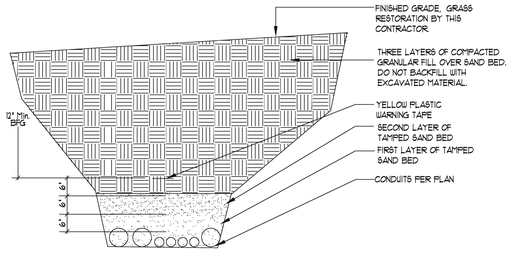

C TYPICAL TRENCHING DETAIL
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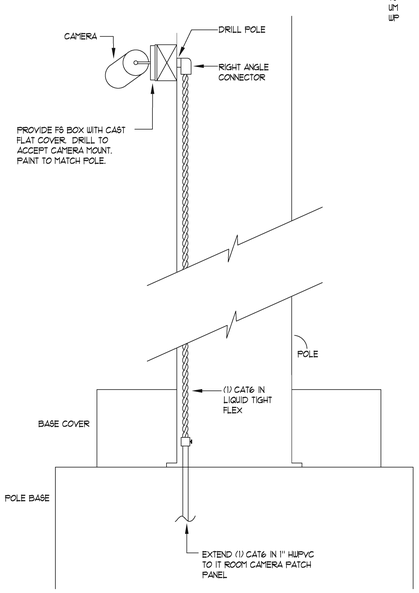

D CAMERA ROUGH-IN
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MC FARLAND, WI 53558

BID NO.
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DRAWING
ELECTRICAL SITE PLAN

DATE
01.12.15

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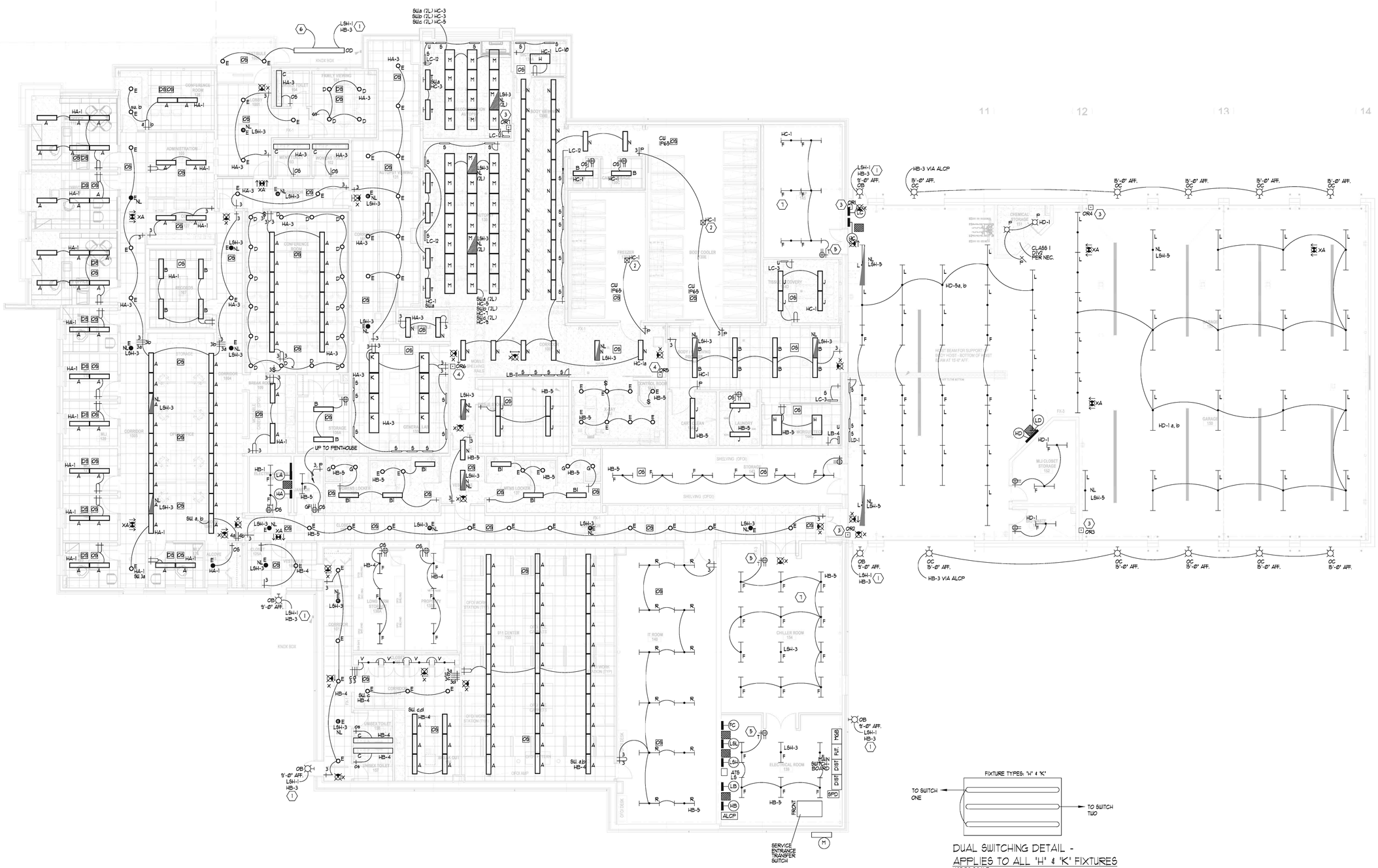


1 LIGHTING PLAN
1/8"=1'-0"

KEYED NOTES:

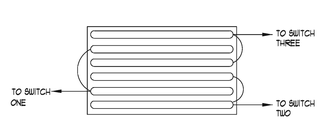
1. EXTEND NORMAL AND LIFE SAFETY CIRCUITS THROUGH UL924 RATED TRANSFER RELAY TO ALLOW NORMAL CIRCUIT TO BE CONTROLLED BY ALCP AND FIXTURE POWERED BY LIFE SAFETY CIRCUIT WHEN NORMAL CIRCUIT FAILS.
2. LIGHT FIXTURES PROVIDED BY FREEZER/BODY COOLER MANUFACTURER. INSTALLED BY ELECTRICAL CONTRACTOR.
3. PROVIDE LEVITON 2MDSU-2 DIGITAL SWITCH.
4. PROVIDE LEVITON 2MDSU-4 DIGITAL SWITCH.
5. PROVIDE WATTSTOPPER TS-400 0-12 HOUR TIMER.
6. LOCATE REMOTE POWER SUPPLY ABOVE INTERIOR ACOUSTICAL CEILING.
7. COORDINATE FIXTURE LOCATIONS WITH MECHANICAL WORK. CHAIN MOUNT FIXTURE 8'-0" AFF OR EVEN WITH ADJACENT DUCTS AND PIPES.

GENERAL NOTES:

1. WIRE ALL EXIT LIGHTS TO L5H-2.
2. MOUNT FIXTURE TYPE "T" AT 11'-0" AFF TO BOTTOM OF FIXTURE.
3. CNG VEHICLES WILL BE STORED IN GARAGE 150. KEEP ALL WIRING 18" BELOW CEILING. ANY WIRING CLOSER THAN 18" TO CEILING MUST BE CLASS I, DIVISION 2.

DUAL SWITCHING DETAIL -
APPLIES TO ALL 'H' & 'K' FIXTURES
NOT TO SCALE

DUAL SWITCHING DETAIL -
APPLIES TO ALL 'A' & 'R' FIXTURES
NOT TO SCALE



DUAL SWITCHING DETAIL -
APPLIES TO ALL 'M' FIXTURES
NOT TO SCALE

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ISSUE
01.12.15 CONSTRUCTION DOCUMENTS

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

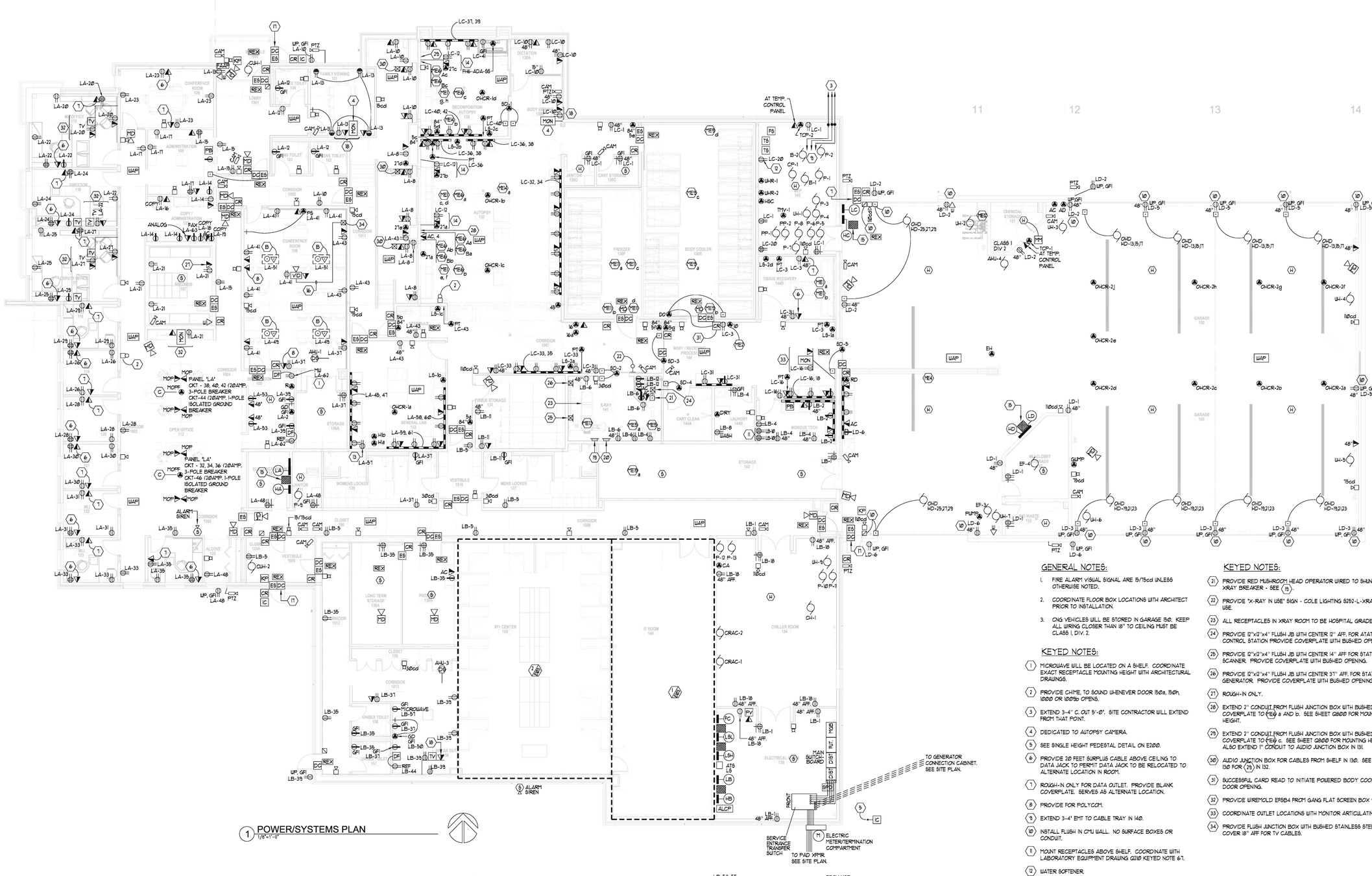
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

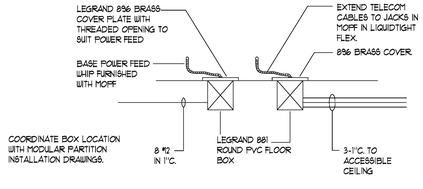
BID NO.
313083

DRAWING
LIGHTING PLAN

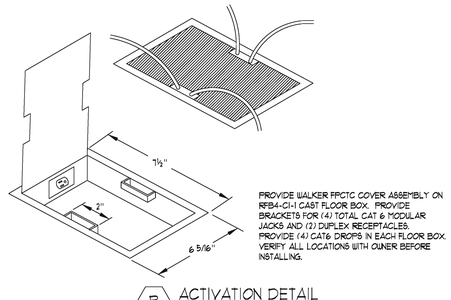
DATE
01.12.15

E100



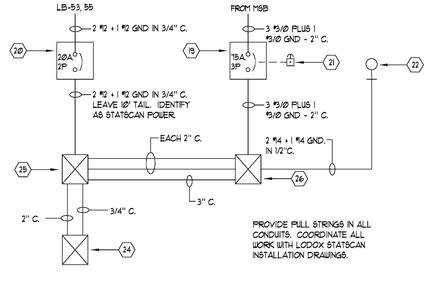


C MOFF DETAIL
NOT TO SCALE



PROVIDE WALKER FPCTC COVER ASSEMBLY ON RFB4-C1-1 CAST FLOOR BOX. PROVIDE BRACKETS FOR (4) TOTAL CAT 6 MODULAR JACKS AND (2) DUPLEX RECEPTACLES. PROVIDE (4) CAT6 DROPS IN EACH FLOOR BOX. VERIFY ALL LOCATIONS WITH OWNER BEFORE INSTALLING.

B ACTIVATION DETAIL
NOT TO SCALE



A X-RAY RISER
NOT TO SCALE

GENERAL NOTES:

1. FIRE ALARM VISUAL SIGNAL ARE 15/15cd UNLESS OTHERWISE NOTED.
2. COORDINATE FLOOR BOX LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
3. CNG VEHICLES WILL BE STORED IN GARAGE 150. KEEP ALL WIRING CLOSER THAN 18" TO CEILING MUST BE CLASS 1, DIV. 2.

KEYED NOTES:

(1) MICROWAVE WILL BE LOCATED ON A SHELF. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
(2) PROVIDE CHIME, TO SOUND WHENEVER DOOR 150a, 150h, 1000 OR 1000b OPENS.
(3) EXTEND 3-4" C. OUT 5'-0". SITE CONTRACTOR WILL EXTEND FROM THAT POINT.
(4) DEDICATED TO AUTOPSY CAMERA.
(5) SEE SINGLE HEIGHT PEDESTAL DETAIL ON E200.
(6) PROVIDE 20 FEET SURPLUS CABLE ABOVE CEILING TO DATA JACK TO PERMIT DATA JACK TO BE RELOCATED TO ALTERNATE LOCATION IN ROOM.
(7) ROUGH-IN ONLY FOR DATA OUTLET. PROVIDE BLANK COVERPLATE. SERVES AS ALTERNATE LOCATION.
(8) PROVIDE FOR POLYCOM.
(9) EXTEND 3-4" EMT TO CABLE TRAY IN 140.
(10) INSTALL FLUSH IN CMU WALL. NO SURFACE BOXES OR CONDUIT.
(11) MOUNT RECEPTACLES ABOVE SHELF. COORDINATE WITH LABORATORY EQUIPMENT DRAWING Q210 KEYED NOTE 67.
(12) WATER SOFTENER.
(13) GROSSING STATION HYDRAULIC PUMP.
(14) SEE LABORATORY EQUIPMENT DRAWING Q800 FOR MOUNTING HEIGHT AND ORIENTATION OF DEVICES LOCATED ABOVE LC SHELF.
(15) SUSPEND TRANSFORMER PER DETAIL ON E200.
(16) EXTEND 1-1/2"C. FOR VIDEO CABLES.
(17) WIRE DOOR CONTACT TO SECURITY SYSTEM AND DOOR ACCESS SYSTEMS.
(18) PROVIDE WIREMOLD EF6B4 FOUR GANG FLAT SCREEN BOX 60" AFF.
(19) 15A, 3P FLUSH MOUNTED ENCLOSED CIRCUIT BREAKER WITH SHUNT TRIP OPERATOR.
(20) 20A, 2P FLUSH MOUNTED ENCLOSED CIRCUIT BREAKER FOR SCANNER.

KEYED NOTES:

(21) PROVIDE RED MUSHROOM HEAD OPERATOR WIRED TO SHUNT TRIP XRAY BREAKER - SEE (19).
(22) PROVIDE "X-RAY IN USE" SIGN - COLE LIGHTING 8252-L-XRAY IN USE.
(23) ALL RECEPTACLES IN XRAY ROOM TO BE HOSPITAL GRADE.
(24) PROVIDE 12"x12"x4" FLUSH JB WITH CENTER 12" AFF. FOR STATCAN CONTROL STATION PROVIDE COVERPLATE WITH BUSHED OPENING.
(25) PROVIDE 12"x12"x4" FLUSH JB WITH CENTER 14" AFF FOR STATCAN SCANNER. PROVIDE COVERPLATE WITH BUSHED OPENING.
(26) PROVIDE 12"x12"x4" FLUSH JB WITH CENTER 37" AFF. FOR STATCAN GENERATOR. PROVIDE COVERPLATE WITH BUSHED OPENING.
(27) ROUGH-IN ONLY.
(28) EXTEND 2" CONDUIT FROM FLUSH JUNCTION BOX WITH BUSHED COVERPLATE TO (4)e a AND b. SEE SHEET Q800 FOR MOUNTING HEIGHT.
(29) EXTEND 2" CONDUIT FROM FLUSH JUNCTION BOX WITH BUSHED COVERPLATE TO (4)e c. SEE SHEET Q800 FOR MOUNTING HEIGHT. ALSO EXTEND 1" CONDUIT TO AUDIO JUNCTION BOX IN 131.
(30) AUDIO JUNCTION BOX FOR CABLES FROM SHELF IN 130. SEE (28) IN 130 FOR (29) IN 132.
(31) SUCCESSFUL CARD READ TO INITIATE POWERED BODY COOLER DOOR OPENING.
(32) PROVIDE WIREMOLD EF6B4 FROM GANG FLAT SCREEN BOX 96" AFF.
(33) COORDINATE OUTLET LOCATIONS WITH MONITOR ARTICULATING ARM.
(34) PROVIDE FLUSH JUNCTION BOX WITH BUSHED STAINLESS STEEL COVER 18" AFF FOR TV CABLES.

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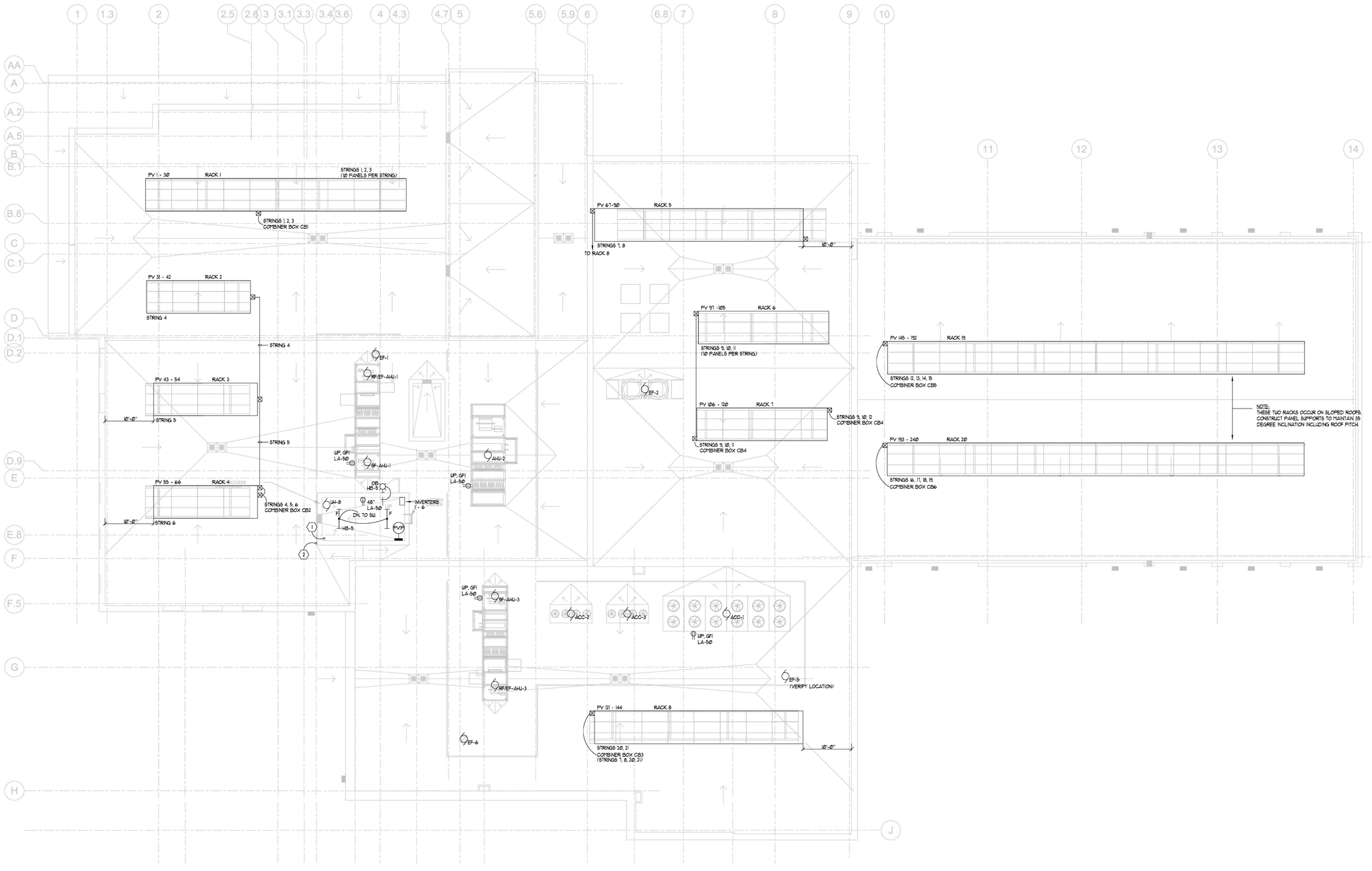
PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
POWER/SYSTEMS PLAN

DATE
01.12.15

E101



1 ROOF ELECTRICAL PLAN
1/8"=1'-0"

GENERAL NOTES:

1. SEE STRUCTURAL DRAWINGS FOR PERMISSIBLE SUPPORT POST LOCATIONS FOR PV SUPPORT STRUCTURES.
2. RACKS 1-8 ARE ON MEMBRANE ROOFING ON METAL DECK SUPPORTED BY STEEL BAR JOIST.
3. RACKS 9 AND 10 ARE ON METAL BUILDING ROOF STRUCTURE SUPPORTED BY PURLINS AND STEEL FRAME MEMBERS.
4. ALL PHOTOVOLTAIC WIRING TO BE EXPOSED ON ROOF, RUN IN IMC ON MIRO INDUSTRIES PILLOW BLOCK PIPE STANDS (2.5" - CONDUIT SUPPORT - 5") MAXIMUM 8'-0" APART.

KEYED NOTES:

1. EXTEND 4" CONDUIT THROUGH PENTHOUSE ROOF AND TERMINATE ON WEATHERHEAD FOR ANTENNA CABLES. CONDUIT ORIGINATES IN IT ROOM.
2. MOUNT YAGI ANTENNA MAST TO SIDE OF PENTHOUSE. EXTEND RADIO REINFORCEMENT CABLE IN 1" CONDUIT TO RADIO REINFORCEMENT PANEL IN 140. SEE SPECIFICATION SECTION 27 60 00.

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PROJECT
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MC FARLAND, WI 53558

BID NO.
313083

DRAWING
ROOF ELECTRICAL PLAN

DATE
01.12.15

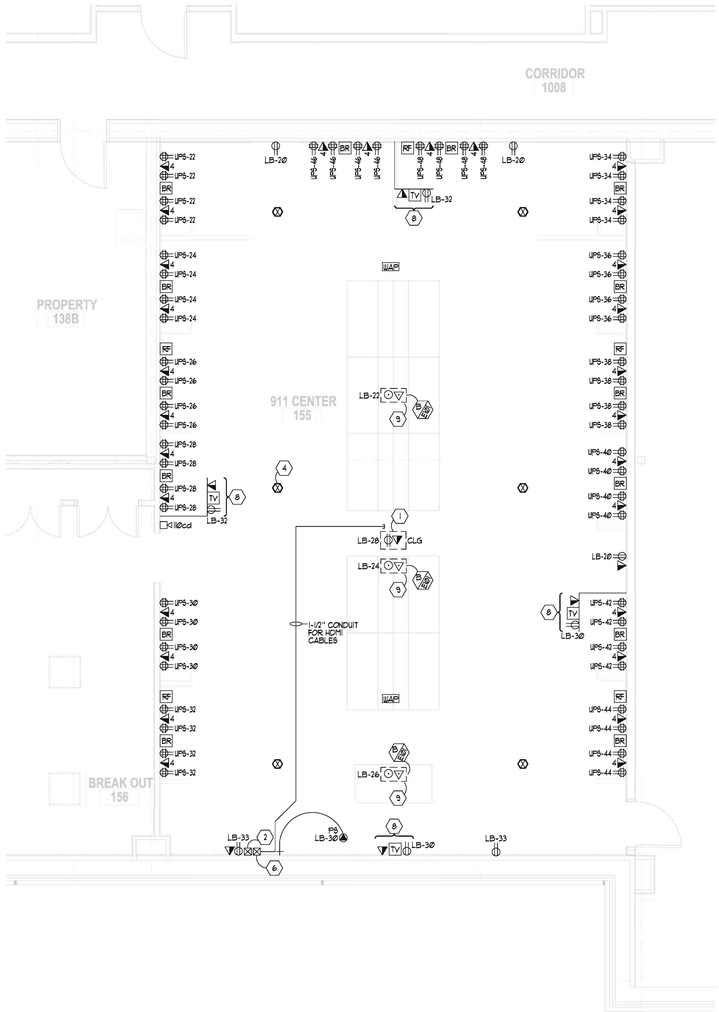
E102

GENERAL NOTES:

1. FIRE ALARM VISUAL SIGNAL ARE 15/75cd UNLESS OTHERWISE NOTED.
2. COORDINATE FLOOR BOX LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

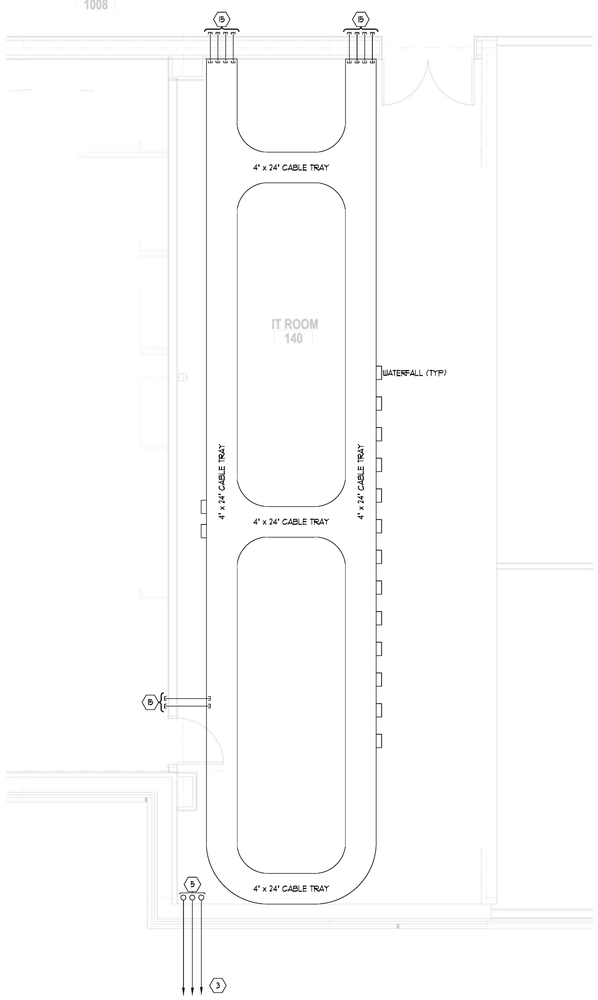
KEYED NOTES:

1. COORDINATE PROJECTOR LOCATION AND REQUIREMENTS WITH AV SUPPLIER.
2. PROVIDE JUNCTION BOX FOR SPEAKER CABLING.
3. EXTEND 3-4" C. OUT 5'-0". SITE CONTRACTOR WILL EXTEND FROM THAT POINT.
4. OFCI SPEAKER - TYPICAL OF (6).
5. EXTEND 3-4" EMT TO CABLE TRAY ABOVE.
6. PROVIDE FLUSH JUNCTION BOX WITH BUSHED OPENING FOR HDMI CABLES.
7. MOUNT IN UPS CABINET FOR MONITORING VIA LAN SYSTEM.
8. PROVIDE WIREMOLD EFSB4 FOUR GANG FLAT SCREEN WALL BOX 60" AFF.
9. EXTEND 1"C. TO ACCESSIBLE CEILING.
10. 911 SERVER RACK
11. 911 CLEAR CHANNEL RACK
12. 911 RADIO RACK
13. 911 PHONE RACK. PROVIDE PATCH PANELS FOR ALL 911 CAT6 CABLES WITHIN THIS RACK.
14. EXTEND 4" CONDUIT TO ROOF FOR ANTENNA CABLES.
15. EACH A 4" CONDUIT SLEEVE ABOVE CEILING.
16. PROVIDE OPEN ELECTRONICS RACK WITH PATCH PANELS FOR ALL ME CABLES IN THIS RACK. THIS PANEL WILL ALSO ACCOMMODATE ME SWITCHES.
17. PROVIDE OPEN ELECTRONICS RACK WITH CAMERA PATCH PANEL AND CAMERA RECORDER. OFCI TELEPHONE SYSTEM COMPONENTS WILL ALSO BE LOCATED IN THIS RACK.
18. 911 CABLING.
19. SEE SPECIFICATION SECTION 27 60 00.



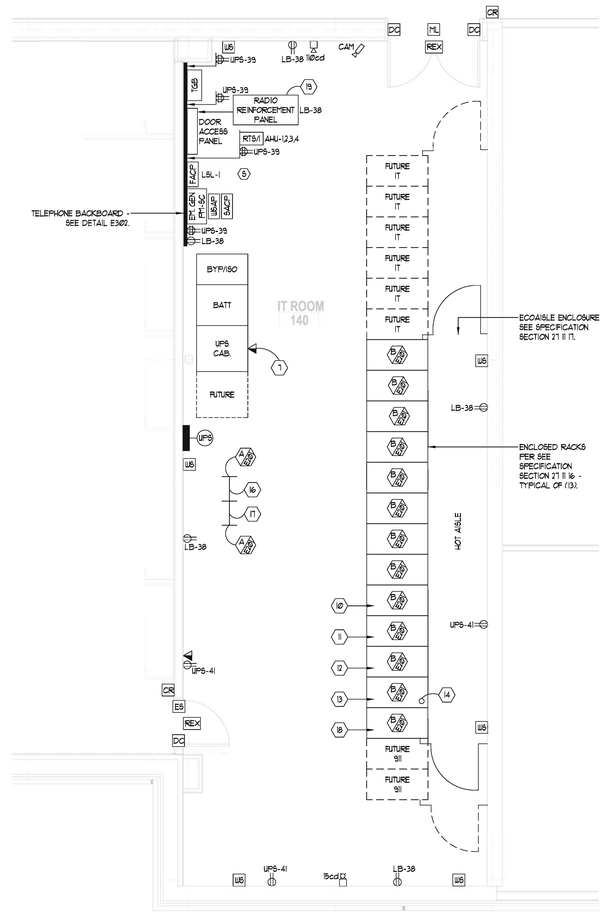
5.2 6.5

2 ENLARGED - 911 CENTER 155 - POWER/SYSTEMS PLAN
1/4"=1'-0"



6.5 7.5

1 ENLARGED - IT ROOM 140 - POWER/SYSTEMS PLAN
1/4"=1'-0"



6.5 7.5

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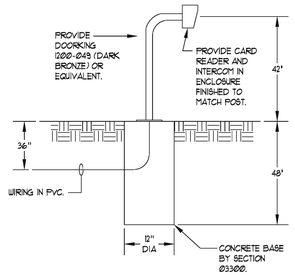
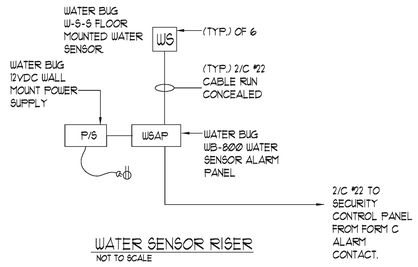
DRAWING
ENLARGED PLANS - 911 CENTER & IT ROOM

DATE
01.12.15

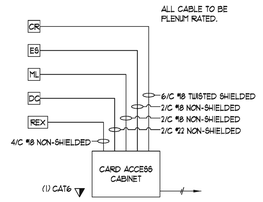


SINGLE HEIGHT MOUNTING POST
NOT TO SCALE

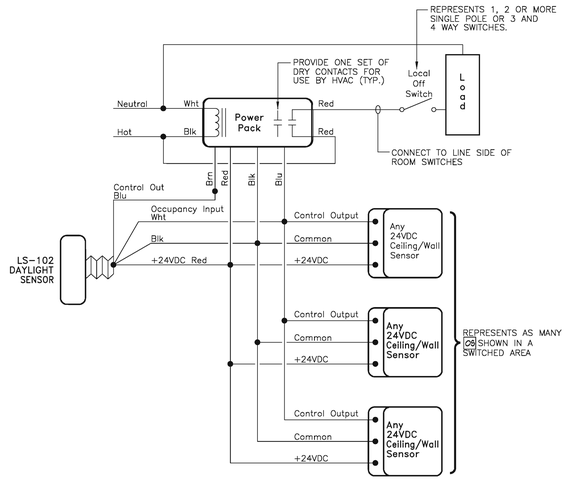


WATER SENSOR RISER
NOT TO SCALE

NOTE:
ALL WORK BY E.C.
MATERIALS ARE AVAILABLE FROM WINLAND ENVIRONMENTAL SECURITY
800-635-4269
(www.winlandsecurity.com)

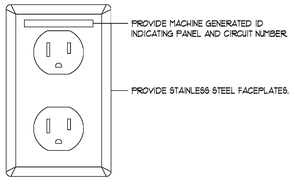


WIRING DIAGRAM - CARD ACCESS
NOT TO SCALE

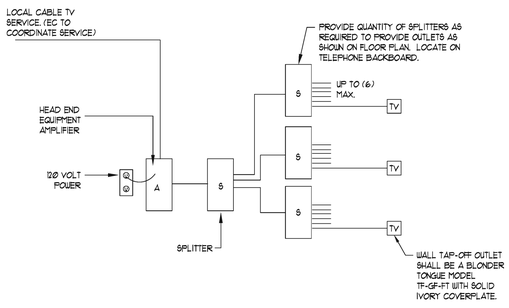


WIRING DIAGRAM - OCCUPANCY SENSORS
NOT TO SCALE

DUAL HEIGHT MOUNTING POST
NO SCALE

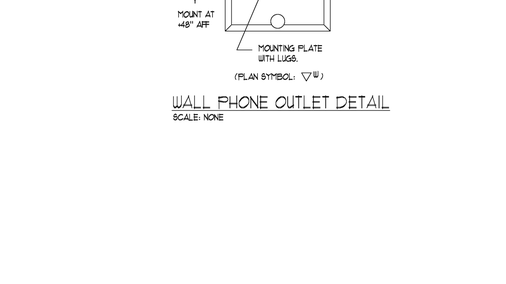


DETAIL - TYPICAL COVERPLATE
SCALE: NONE

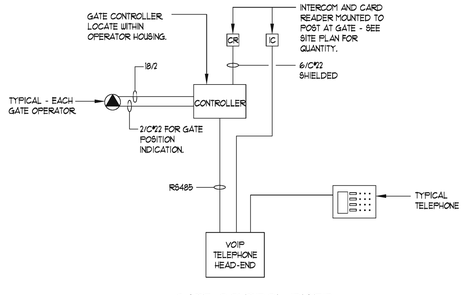


NOTES:
1. CONTRACTOR TO TEST SIGNAL STRENGTH AT LAST OUTLET ON EACH FEEDER LINE WITH A JERROLD MODEL 727 FIELD STRENGTH METER. THE SIGNAL LEVEL AT THE LAST OUTLET SHALL NOT READ LESS THAN 3 dBmV, NOR MORE THAN 12 dBmV. BALANCE SYSTEM AND ADJUST AMPLIFIER ACCORDINGLY.
2. UTILIZE THE FOLLOWING EQUIPMENT (OR APPROVED EQUIVALENT):
   A. SPLITTER — BLONDER TONGUE MODEL MS-2U/V AND MS-4U/V
   B. AMPLIFIER — BLONDER TONGUE ACA OR BIDA SERIES
   C. COAXIAL CABLE — RG6 PLENUM

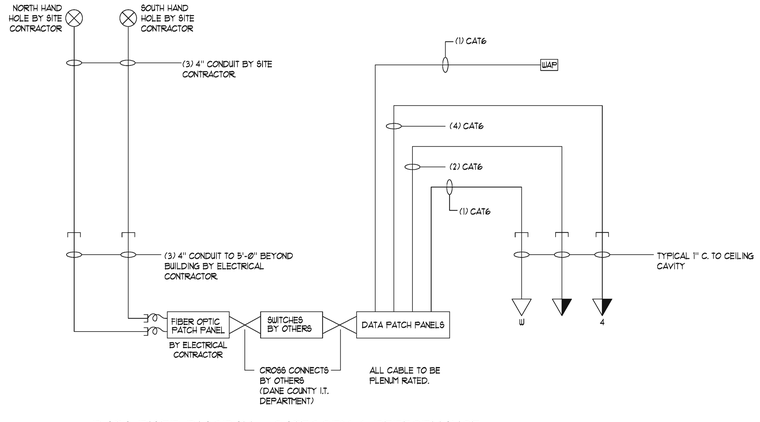
INSTALLATION DETAIL TV
NOT TO SCALE



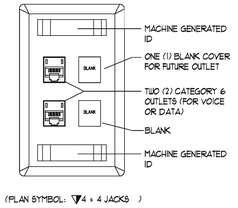
PANEL AND TRANSFORMER MOUNTING DETAIL
NOT TO SCALE



GATE CONTROL RISER
NOT TO SCALE

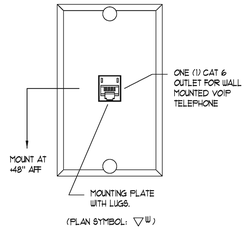


DATA RISER DIAGRAM - CATEGORY 6 PERFORMANCE
NO SCALE



(PLAN SYMBOL: ▽4 x 4 JACKS)

▽ TYPICAL WORKSTATION DATA OUTLET DETAIL
SCALE: NONE



(PLAN SYMBOL: ▽W)

WALL PHONE OUTLET DETAIL
SCALE: NONE

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3562 COUNTY HIGHWAY AB
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BID NO.
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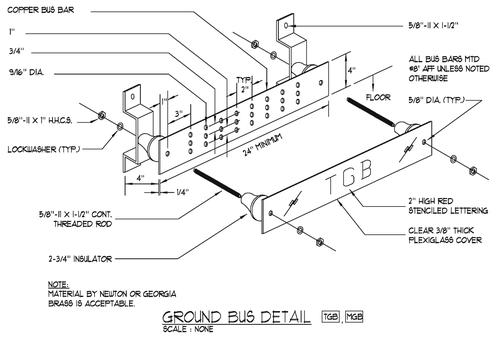
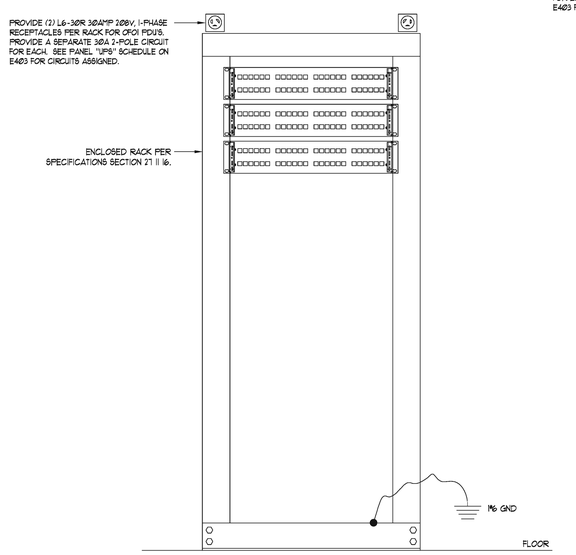
DATE
01.12.15



NOTE:
MATERIAL BY NEUTON OR GEORGIA BRASS IS ACCEPTABLE.

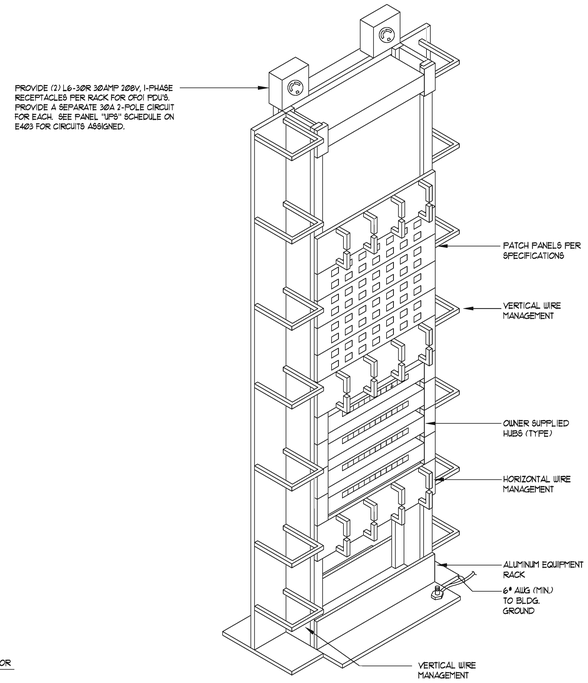
GROUND BUS DETAIL TGB MGB

SCALE : NONE



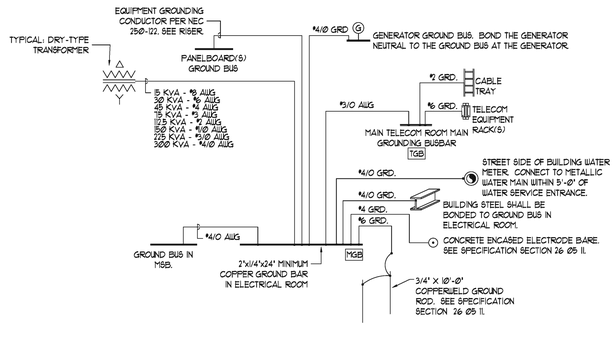
B TYPICAL RACK - ROOM SIDE

NOT TO SCALE



A OPEN DATA COMMUNICATION WIRING RACKS

NOT TO SCALE



GROUNDING SYSTEM DETAIL

NOT TO SCALE

NOTES:
1. ALL GROUND CONDUCTORS TO BE ROUTED IN PVC CONDUIT.
2. ALL GROUND CONDUCTORS ON THIS DIAGRAM SHALL BE COPPER.
3. LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO THE GROUND BUS IN THE MAIN ELECTRICAL ROOM

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DETAILS

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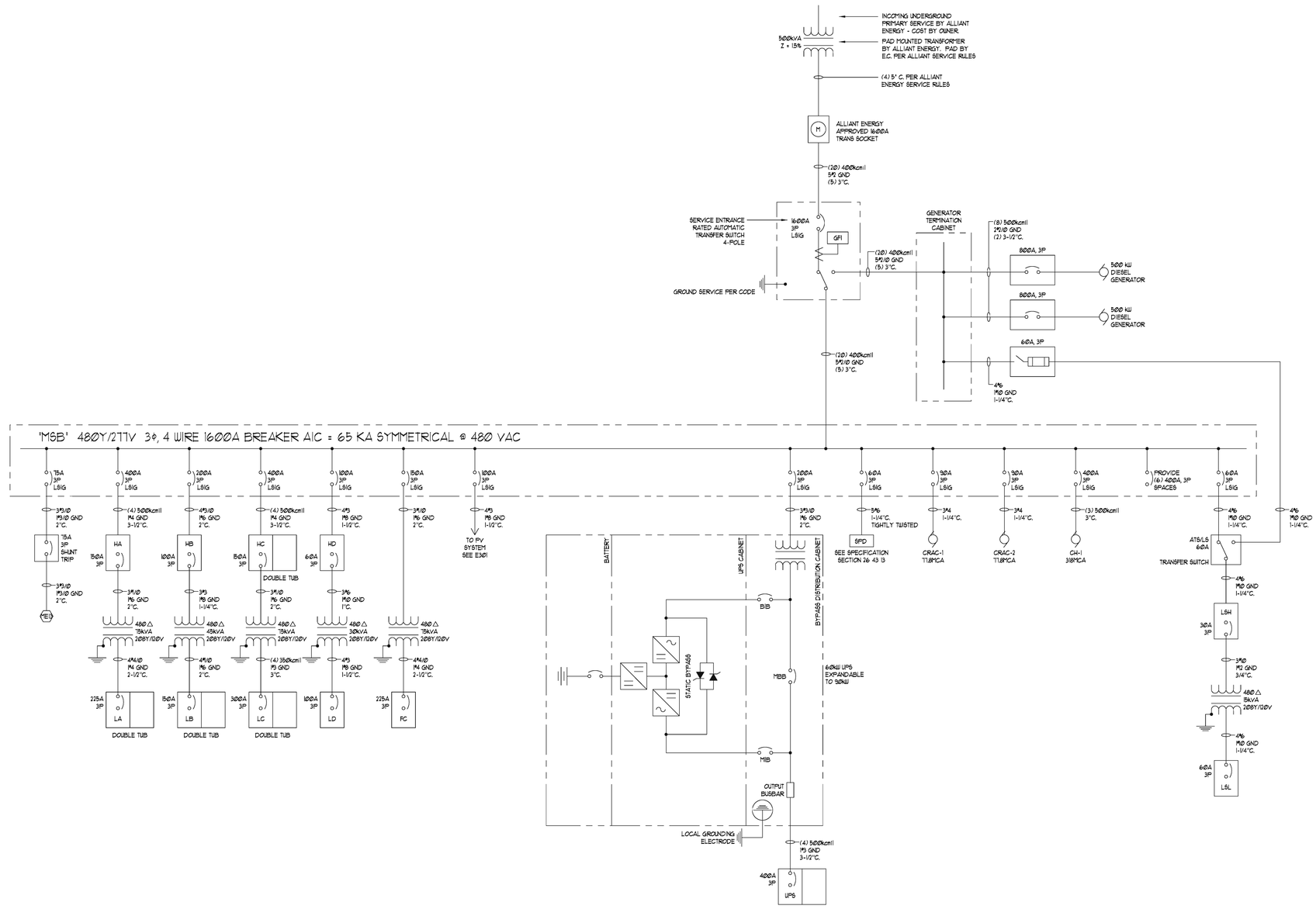
E201



POWER RISER 1600 AMPERE SERVICE 480Y/277 VOLTS

NOT TO SCALE

GENERAL NOTES:

1. PROVIDE 3-1/2" CONCRETE HOUSEKEEPING PAD FOR MSB.
2. COORDINATE ALL WORK WITH ALLIANT ENERGY. CONTACT JEFF McCARTHY AT 608-845-1112.

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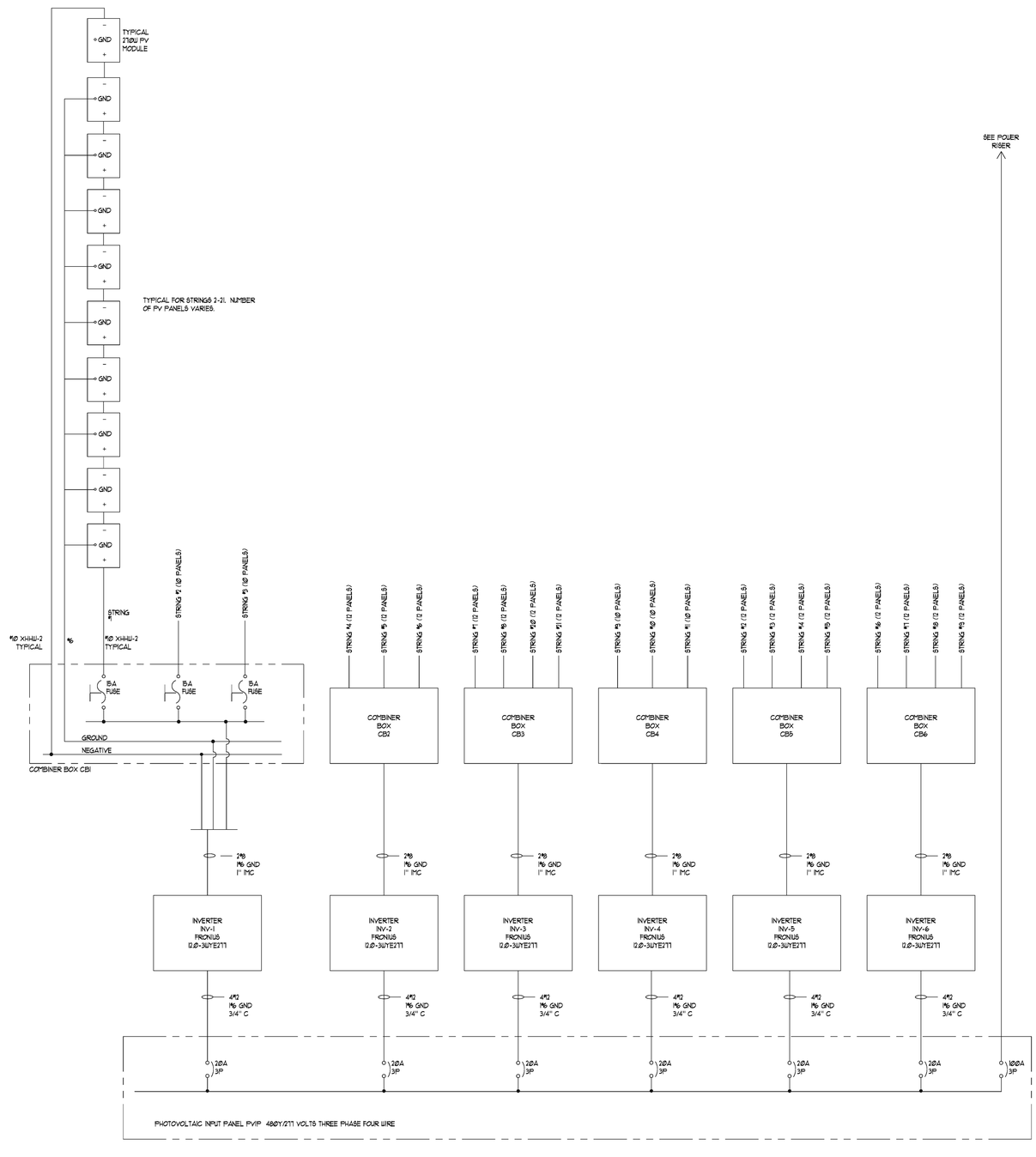

PHOTOVOLTAIC RISER DIAGRAM
NOT TO SCALE

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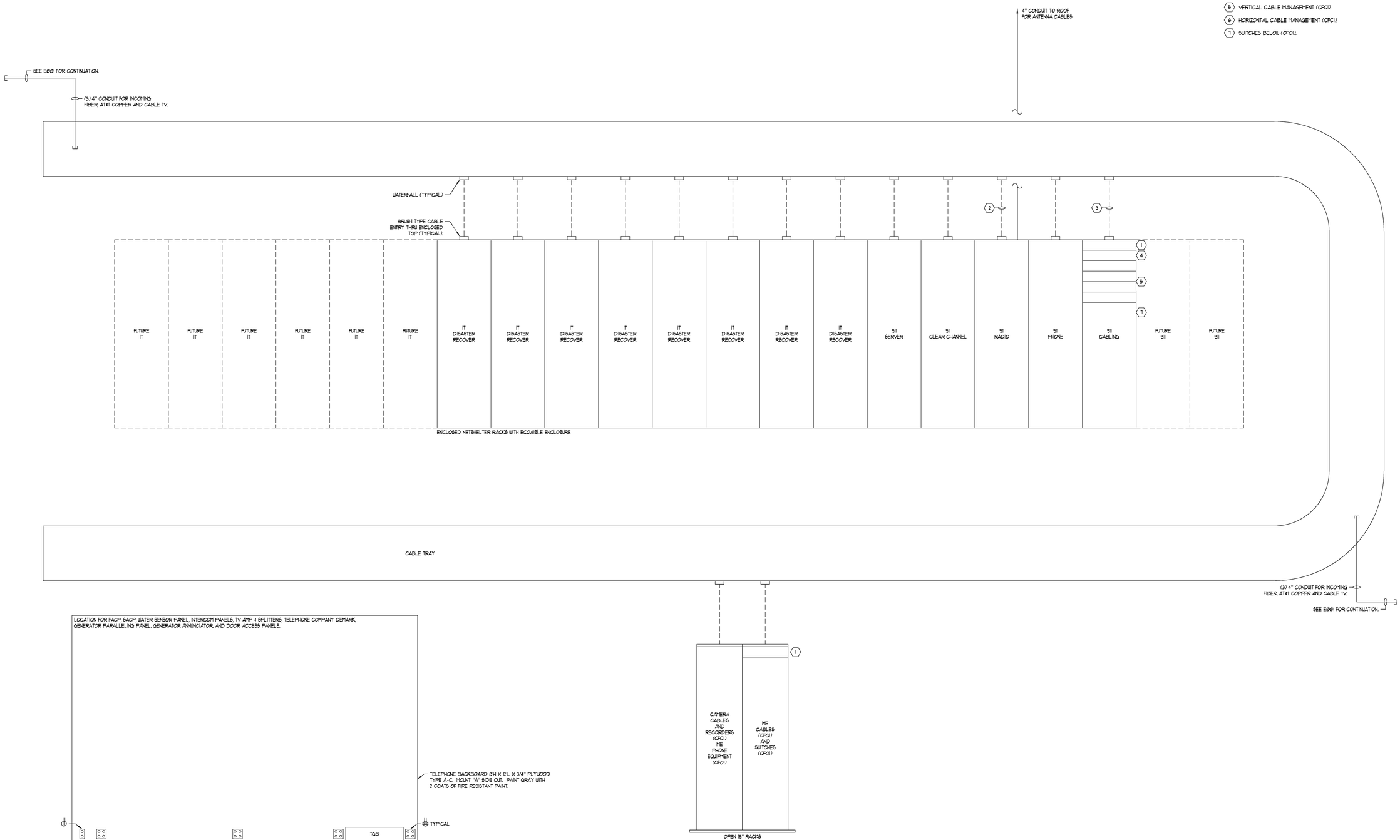
DRAWING
PHOTOVOLTAIC RISER DIAGRAM

DATE
01.12.15

KEYED NOTES:

1. 24 PORT PATCH PANEL FOR ANALOG TELEPHONES, FAX, ETC. EXTEND 25 PAIR CAT3 CABLE TO TELCO DEMARK.
2. RG6 COAX (PLENUM) AND 3/C BACKUP RADIO CABLES FROM RF AND BR IN 911 ROOM.
3. CAT6 (PLENUM) FROM 911 TELECOM OUTLETS.
4. PATCH PANEL(S) (CFCI) - TERMINATE ALL 911 CAT6 CABLING HERE.
5. VERTICAL CABLE MANAGEMENT (CFCI).
6. HORIZONTAL CABLE MANAGEMENT (CFCI).
7. SWITCHES BELOW (CFOI).



TELECOMMUNICATIONS RISER DIAGRAM

NOT TO SCALE

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DRAWING
TELECOMMUNICATIONS RISER DIAGRAM

DATE
01.12.15

LIGHT FIXTURE SCHEDULE - ALTERNATE BID - LED

TAG	LAMP DATA		DESCRIPTION	LIGHTING FIXTURE		MOUNT	CEILING	VOLT	SEE
	NO	TYPE		MAKE	CATALOG NO		TYPE		NOTE
A	-	4800L / LED / 4000K	PENDANT DIRECT/INDIRECT LED - 30 DN/70 UP	LEDALITE	7806-LA-C-QN-LENGTH-1-2-W	CABLE	GRID	277	1, 8
B	-	3900L / LED / 4000K	1 x 4 FLAT LENSED LED	DAYBRITE	1-LT-G-39L-840-4-21-UNV	RECESS	GRID	277	2
B1	-	3900L / LED / 4000K	1 x 4 FLAT LENSED LED - DRYWALL	DAYBRITE	1-LT-G-39L-840-4-21-UNV-FMA14	RECESS	DW	277	2
C	-	3000L / LED / 3500K	LED COVE	LEDALITE	39C8-L-B-E-Q-S-1-6-1-2-E	RECESS	GRID	277	2
D	-	2000L / LED / 3500K	LED DOWNLIGHT - DIMMABLE	LIGHTOLIER	C6L 20 N U VB Z10V C6L1520 DL 35K W CL P VB	RECESS	VARIES	277	3
E	-	2000L / LED / 3500K	LED DOWN LIGHT - NO DIMMING	LIGHTOLIER	C6L 20 N U VB Z10V C6L1520 DL 35K W CL P VB	RECESS	VARIES	277	3
F	-	4100L / LED / 3500K	4 FOOT INDUSTRIAL LED W/GUARD	DAYBRITE	LF-4-10-41-35-U-LAG-EE9HC	CHAIN	EXP	277	2
G	-	1400L / LED / 4000K	LED SHOWER LIGHT	LIGHTOLIER	OM6LED-27-277-R6LED-40K-MD-CSS	RECESS	DW	277	3
H	-	4000L / LED / 4000K	2 x 4 FLAT LENSED LED	DAYBRITE	2-LT-G-40L-840-4-21-UNV	RECESS	GRID	277	2, 6, 8
J	-	LED / 4000K	1 x 4 LED - WET LOCATION	NEW STAR	SCS-14-HC-IC-L2-40-1-C-UN	RECESS	GRID	277	2
K	-	LED / 4000K	2 x 4 LED - WET LOCATION	NEW STAR	SCS-24-HC-IC-L3-40-2-C-UN	RECESS	GRID	277	2, 6, 8
L	-	4100L / LED / 3500K	8 FOOT INDUSTRIAL LED WITH WIRE GUARD	DAYBRITE	LF-8-10-41-35-U-LAG-EE9HC	CHAIN	EXP	277	2
M	-	LED / 4000K	2 x 4 AUTOPSY SUITE LED - RECESSED	NEW STAR	SCF-24-HC-IP-L6-40-3-R-277-MS	RECESS	DW	277	2, 6, 8
N	-	LED / 4000K	4 FOOT AUTOPSY SUITE LED - RECESSED	NEW STAR	SCF-14-HC-IP-L3-40-3-R-UN-MS	RECESS	DW	277	2
P		5625L LED	EXPLOSION PROOF LED PENDANT	CROUSE HINDS	EVLL5L C A 2 1/UNV1	PENDANT	EXP	277	5
R	-	4800L / LED / 4000K	PENDANT LINEAR DIRECT LED - 80 DN / 20 UP	LEDALITE	7806-LB-C-QG-04-1-2-W	CABLE	EXP	277	1, 6, 8
S	-	LED / 3500K	19' UNDER-CABINET LIGHT	DAYBRITE	LINCS-100-L19-120-WHG	CABINET	-	120	
T	-	2762L / LED / 4000K	ASYMMETRICAL TASK LIGHT	ELLIPTIPAR	S-132-J442-S-02-2-00-0-40-00	WALL	-	277	
U	-	LED / 3500K	19" LED UNDER-CABINET LIGHT	DAYBRITE	LINCS-100-L19-120-WHG	CABINET	-	120	
V	-	2800L / LED / 4000K	4' WALL BRACKET	DAYBRITE	CSW-48-28-40-U-LAG-ZO	WALL	-	277	
X	-	LED	SINGLE FACE EXIT LIGHT	DAYBRITE	55L 3 R 55FAR	TOP OR BACK	VARIES	277	2
XA	-	LED	DOUBLE FACE EXIT LIGHT	DAYBRITE	55L 3 R 55FAR	TOP OR BACK	VARIES	277	2
OA	-	LED	LED CUTOFF POLE	GARDCO	P21 A2 1 3 105LA NW UNIV BRP LF	25 FOOT POLE		277	4
OB	-	LED	LED CUTOFF WALL BRACKET	GARDCO	121 3 35LA-350 NW BRP F	9' AFF.		277	4
OC	-	LED	LED CUTOFF WALL BRACKET	GARDCO	121 3 75LA NW BRP F	15' AFF.		277	4
OD	-	LED 4000K	LED CHANNEL LIGHT	EDGE LIGHT	C-1RE-JBOX/CC-D1-5WDC-120IN-40K-SA	SURFACE	METAL PANEL	277	1, 7

NOTES:

1. OR EQUIVALENT BY PEERLESS OR AXIS LIGHTING.
2. OR EQUIVALENT BY LITHONIA, KENALL OR COOPER.
3. OR EQUIVALENT BY GOTHAM OR PORTFOLIO.
4. OR EQUIVALENT BY LITHONIA OR CREE.
5. OR APPROVED EQUIVALENT.
6. WITH MASTER SLAVE BALLAST ARRANGEMENT FOR DUAL SWITCHING.
7. COLOR AS SELECTED BY ARCHITECT
8. PROVIDE WITH DUAL LEVEL SWITCHING OF LEDS (50% ON WITH ONE SWITCH / 100% ON WITH SECOND SWITCH)

LIGHT FIXTURE SCHEDULE - BASE BID

TAG	LAMP DATA		DESCRIPTION	LIGHTING FIXTURE		MOUNT	CEILING	VOLT	SEE
	NO	TYPE		MAKE	CATALOG NO		TYPE		NOTE
A	2	F32T8/SPX35/ECO	PENDANT INDIRECT FLUORESCENT 30 DN/70 UP	LEDALITE	7707-T02-P-N-2-2-E-W	CABLE	GRID	277	1, 6, 8
B	2	F32T8/SPX35/ECO	1 x 4 FLAT LENSED FLUORESCENT	DAYBRITE	SPS1G FS VA 232 UNV H1	RECESS	GRID	277	2
B1	2	F32T8/SPX35/ECO	1 x 4 FLAT LENSED FLUORESCENT - DRYWALL	DAYBRITE	SPS1F FS VA 232 UNV H1 - FMA14	RECESS	DW	277	2
C	2	F32T8/SPX35/ECO	FLUORESCENT COVE	LEDALITE	PTS7-248-277V-E82 - BAFFLE-SEE NOTE	RECESS	GRID	277	2
D	-	2000L LED	LED DOWNLIGHT - DIMMABLE	LIGHTOLIER	C6L 20 N U VB Z10V C6L1520 DL 35K W CL P VB	RECESS	VARIES	277	3
E	-	2000L LED	LED DOWN LIGHT - NO DIMMING	LIGHTOLIER	C6L 20 N U VB Z10V C6L1520 DL 35K W CL P VB	RECESS	VARIES	277	3
F	2	F32T8/SPX35/ECO	4 FOOT INDUSTRIAL FLUORESCENT W/GUARD	DAYBRITE	1F232 PP UNV 1/2 EB10R FL-123 FL-173	CHAIN	EXP	277	2
G	1	32W TRT 35K	CFL SHOWER LIGHT	LIGHTOLIER	8091FCLW-S6132BU	RECESS	DW	277	3
H	3	F32T8/SPX35/ECO	2 x 4 FLAT LENSED FLUORESCENT	DAYBRITE	2SPG332FS21 1/4 OR 1/2	RECESS	GRID	277	2, 6, 8
J	2	F32T8/SPX35/ECO	1 x 4 FLUORESCENT - WET LOCATION	DAYBRITE	1 DWL G 2 32 FS 19 UNV 1/2 EB10R 3W	RECESS	GRID	277	2
K	3	F32T8/SPX35/ECO	2 x 4 FLUORESCENT - WET LOCATION	DAYBRITE	2 DPWL G 3 32 FS 19 UNV 1/21 EB102 3W	RECESS	GRID	277	2, 6, 8
L	6	F32T8/SPX35/ECO	8 FOOT INDUSTRIAL WITH WIRE GUARD	DAYBRITE	T1F232 PP UNV 1/2 EB10R FL-123/ FL-173 (TWO)	CHAIN	EXP	277	2
M	6	F54T5HO/SPX35/ECO	2 x 4 AUTOPSY SUITE - RECESSED	DAYBRITE	ST8245-3/F/F8240/277/ECB	RECESS	DW	277	2, 6, 8
N	3	F54T5HO/SPX35/ECO	4 FOOT AUTOPSY SUITE - RECESSED	DAYBRITE	ST8145-2/F/F8140/277/ECB	RECESS	DW	277	2
P	-	5625L LED	EXPLOSION PROOF LED PENDANT	CROUSE HINDS	EVLL5L C A 2 1/UNV1	PENDANT	EXP	277	5
R	2	F32T8/SPX35/ECO	PENDANT LINEAR DIRECT FLUORESCENT	LEDALITE	8816 2T8 P G XX 2 2 E W	CABLE	EXP	277	1, 6, 8
S	1	F17T8/SPX35/ECO	2' UNDER-CABINET LIGHT	DAYBRITE	8UC117 D UNV EB101	CABINET	-	120	
T	1	F54T5HO/SPX35/ECO	ASYMMETRICAL TASK LIGHT	ELLIPTIPAR	F-124-T1-T5-G-02-2-00-0-HOD-02-HDD	WALL	-	277	
U	1	F15T8/SPX35/ECO	18" UNDER-CABINET LIGHT	DAYBRITE	CU 158 A 120 EB	CABINET	-	120	
V	2	F32T8/SPX35/ECO	4' WALL BRACKET	DAYBRITE	CB 2 32 W 277	WALL	-	277	
X	-	LED	SINGLE FACE EXIT LIGHT	DAYBRITE	55L 3 R 55FAR	TOP OR BACK	VARIES	277	2
XA	-	LED	DOUBLE FACE EXIT LIGHT	DAYBRITE	55L 3 R 55FAR	TOP OR BACK	VARIES	277	2
OA	-	LED	LED CUTOFF POLE	GARDCO	P21 A2 1 3 105LA NW UNIV BRP LF	25 FOOT POLE		277	4
OB	-	LED	LED CUTOFF WALL BRACKET	GARDCO	121 3 35LA-350 NW BRP F	9' AFF.		277	4
OC	-	LED	LED CUTOFF WALL BRACKET	GARDCO	121 3 75LA NW BRP F	15' AFF.		277	4
OD	-	LED 4000K	CHANNEL LIGHT - LED	EDGE LIGHT	C-1RE-JBOX/CC-D1-5WDC-120IN-40K-SA	SURFACE	METAL PANEL	277	1, 7

NOTES:

1. OR EQUIVALENT BY PEERLESS OR AXIS LIGHTING.
2. OR EQUIVALENT BY LITHONIA OR COOPER.
3. OR EQUIVALENT BY GOTHAM OR PORTFOLIO.
4. OR EQUIVALENT BY LITHONIA OR CREE.
5. OR APPROVED EQUIVALENT.
6. WITH MASTER SLAVE BALLAST ARRANGEMENT FOR DUAL SWITCHING.
7. COLOR AS SELECTED BY ARCHITECT
8. IF ALTERNATE BID LIGHTING PACKAGE IS ACCEPTED, DUAL LEVEL SWITCHING STILL APPLIES

dorschner associates

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Planning

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ISSUE

01.12.15 CONSTRUCTION DOCUMENTS

PROJECT
MEDICAL EXAMINER OFFICE
BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
SCHEDULES

DATE
01.12.15

SPECIAL OUTLET SCHEDULE

TAG	DRIVING	LOC.	FEED FROM		BREAKER		BRANCH WIRING			POWER			SEE NOTE
			PANEL	CIRCUIT	SIZE	POLE	NO	SIZE	COND.	VOLT	PH	LOAD	
5a	BUG ZAPPER	#1007	LC	33	20	1	2 + G	12	1/2"	120	1	80W	11
5b	BUG ZAPPER	#136	LA	43	20	1	2 + G	12	1/2"	120	1	80W	11
5c	BUG ZAPPER	#130	LC	36	20	1	2 + G	12	1/2"	120	1	80W	11
5d	BUG ZAPPER	#132	LC	40	20	1	2 + G	12	1/2"	120	1	80W	11
5e	BUG ZAPPER	#130E	LC	1	20	1	2 + G	12	1/2"	120	1	80W	11
5f	BUG ZAPPER	#1007	LC	3	20	1	2 + G	12	1/2"	120	1	80W	11
5g	BUG ZAPPER	#144	LC	3	20	1	2 + G	12	1/2"	120	1	80W	11
10	DIGITAL READ OUT SCALE	#144	LC	4	20	1	2 + G	12	1/2"	120	1	80W	11
16	COOLER PANEL	#1007	FC	14, 16, 18	40	3	4 + G	8	1"	208	3		
16a	FREEZER PANEL	#1007	FC	13, 15, 17	40	3	4 + G	8	1"	208	3		
27a	FLAT PANEL SCREEN	#130	LC	22	20	1	2 + G	12	1/2"	120	1	100W	16
27b	FLAT PANEL SCREEN	#130	LC	22	20	1	2 + G	12	1/2"	120	1	100W	16
27c	FLAT PANEL SCREEN	#132	LC	22	20	1	2 + G	12	1/2"	120	1	100W	16
27d	FLAT PANEL SCREEN	#131	LA	22	20	1	2 + G	12	1/2"	120	1	100W	12
27e	FLAT PANEL SCREEN	#131	LA	22	20	1	2 + G	12	1/2"	120	1	100W	12
45	ULTIMATE 1000 LB BODY LIFT	#130	LC	8	20	1	2 + G	12	1/2"	120	1	VERIFY	
AC	AIR COMPRESSOR	#150	HD	10, 12, 14	20	2	3 + G	12	1/2"	480	3	5HP	
AD	AIR DRYER	150	LD	23	20	1	2 + G	12	1/2"	120	1	FRACT.	14
CA	CLEAN AGENT PANEL	#140	LB	48	20	1	2 + G	12	1/2"	120	1		13
DO	DOOR OPERATOR	#130E	LD	SEE DWGS	20	3	3 + G	12	1/2"	480	3	2HP	18
DRY	DRYER	#144B	LB	7, 9	30	2	3 + G	10	3/4"	208	1	5KW	14
FH6-ADA-SS	FUME HOOD	#132	LC	14	20	1	2 + G	12	1/2"	120	1	300W	
GAP-1	GENERATOR ACCESSORY PANEL-1	SITE	LD	25, 27	30	2	3 + G	10	3/4"	120/208	1	4.5KW	6
GAP-2	GENERATOR ACCESSORY PANEL-2	SITE	LD	29, 31	30	2	3 + G	10	3/4"	120/208	1	4.5KW	6
GATE-1	GATE - NORTH - SINGLE	SITE	LC	79, 81	20	2	2 + G	10	1"	208	1	1HP	8
GATE-2a,b	GATE - SOUTH - DOUBLE	SITE	LB	SEE DWGS	20	1	2 + G	10	1"	120	1	1/2HP EACH	8
GD	GARBAGE DISPOSAL	SEE DWGS	SEE	DWGS	20	1	2 + G	12	1/2"	120	1		17
GWMP	GARAGE WASTE MONITORING PANEL	150	LD	21	20	1	2 + G	12	1/2"	120	1		
H1a	GROSSING STATION	#133	LA	3	15	1	2 + G	12	1/2"	120	1	VERIFY	4
H1b	GROSSING STATION (DISPOSAL)	#133	LA	5	20	1	2 + G	12	1/2"	120	1	VERIFY	4
HSC	HEAT SENSOR CONTROLLERS	#145	LC	69	20	1	2 + G	12	1/2"	120	1	VERIFY	
LS-1a	LABORATORY FAUCET-1a	#144	LC	3	20	1	2 + G	12	1/2"	120	1	100W	5
LS-1b	LABORATORY FAUCET-1b	#133	LA	58	20	1	2 + G	12	1/2"	120	1	100W	5
LS-1c	LABORATORY FAUCET-1c	#136	LA	43	20	1	2 + G	12	1/2"	120	1	100W	5
LS-2a	LABORATORY FAUCET-2a	#1007	LC	3	20	1	2 + G	12	1/2"	120	1	100W	5
LS-2b	LABORATORY FAUCET-2b	#130	LC	38	20	1	2 + G	12	1/2"	120	1	100W	5
LS-2c	LABORATORY FAUCET-2c	#132	LC	40	20	1	2 + G	12	1/2"	120	1	100W	5
LS-2d	LABORATORY FAUCET-2d	#144D	LC	3	20	1	2 + G	12	1/2"	120	1	100W	5
MOPFa	MODULAR FURNITURE SYSTEM	#112	LA	SEE DWGS	SEE	DWGS	SEE	DWGS		120	SEE	DWGS	3
MOPFb	MODULAR FURNITURE SYSTEM	#112	LA	SEE DWGS	SEE	DWGS	SEE	DWGS		120	SEE	DWGS	3
OHCR-1a	OVERHEAD POWER REEL (RECESSED)	#133	LA	4	20	1	2 + G	12	1/2"	120	1	1500W	1
OHCR-1b	OVERHEAD POWER REEL (RECESSED)	#130	LC	11	20	1	2 + G	12	1/2"	120	1	1500W	1
OHCR-1c	OVERHEAD POWER REEL (RECESSED)	#130	LC	7	20	1	2 + G	12	1/2"	120	1	1500W	1
OHCR-1d	OVERHEAD POWER REEL (RECESSED)	#132	LC	13	20	1	2 + G	12	1/2"	120	1	1500W	1
OHCR-2a	OVERHEAD POWER REEL (SURFACE)	#150	LD	7	20	1	2 + G	12	1/2"	120	1	1500W	2
OHCR-2b	OVERHEAD POWER REEL (SURFACE)	#150	LD	7	20	1	2 + G	12	1/2"	120	1	1500W	2
OHCR-2c	OVERHEAD POWER REEL (SURFACE)	#150	LD	9	20	1	2 + G	12	1/2"	120	1	1500W	2
OHCR-2d	OVERHEAD POWER REEL (SURFACE)	#150	LD	9	20	1	2 + G	12	1/2"	120	1	1500W	2
OHCR-2e	OVERHEAD POWER REEL (SURFACE)	#150	LD	11	20	1	2 + G	12	1/2"	120	1	1500W	2
OHCR-2f	OVERHEAD POWER REEL (SURFACE)	#150	LD	13	20	1	2 + G	12	1/2"	120	1	1500W	2
OHCR-2g	OVERHEAD POWER REEL (SURFACE)	#150	LD	13	20	1	2 + G	12	1/2"	120	1	1500W	2
OHCR-2h	OVERHEAD POWER REEL (SURFACE)	#150	LD	13	20	1	2 + G	12	1/2"	120	1	1500W	2
OHCR-2j	OVERHEAD POWER REEL (SURFACE)	#150	LD	11	20	1	2 + G	12	1/2"	120	1	1500W	2
PS	PROJECTION SCREEN	SEE DWGS	SEE	DWGS	20	1	2 + G	12	1/2"	120	1	VERIFY	15
PT	PAPER TOWEL DISPENSER	SEE DWGS	SEE	DWGS	20	1	2 + G	12	1/2"	120	1		
PWMP	PROCESS WASTE MONITORING PANEL	150	LD	19	20	1	2 + G	12	1/2"	120	1		
R	RANGE	#109	LA	9, 11	50	2	3 + G	6	1"	208	1	8.0KW	14
RD	RADIATION DETECTOR	#150	LD	4	20	1	2 + G	12	1/2"	120	1	VERIFY	9
SD-1	SLIDING DOOR	#132	LC	59	20	1	2 + G	12	1/2"	120	1	1/4HP	
SD-2	SLIDING DOOR	#141	LB	51	20	1	2 + G	12	1/2"	120	1	1/4HP	
SD-3	SLIDING DOOR	#1007	LC	63	20	1	2 + G	12	1/2"	120	1	1/4HP	10
SD-4	SLIDING DOOR	#144A	LC	65	20	1	2 + G	12	1/2"	120	1	1/4HP	
SD-5	SLIDING DOOR	#144	LC	67	20	1	2 + G	12	1/2"	120	1	1/4HP	10
SIGN	SIGN	SITE	LB	46	20	1	3 + G	10	1"	120	1		7
TCP-1	TEMPERATURE CONTROL PANEL - AHU-4	#150	LD	15	20	1	2 + G	12	1/2"	120	1	VERIFY	
TCP-2	TEMPERATURE CONTROL PANEL - BOILER ROOM	#145	LC	69	20	1	2 + G	12	1/2"	120	1	VERIFY	
TMV-1	THERMOSTATIC MIXING VALVE	#145	LC	69	20	1	2 + G	12	1/2"	120	1	VERIFY	
WHR-1	WATER HEATER	#145	LC	73	20	1	2 + G	12	1/2"	120	1	VERIFY	
WHR-2	WATER HEATER	#145	LC	75	20	1	2 + G	12	1/2"	120	1	VERIFY	

NOTES:

1. PROVIDE CHEMETRON RECESSED TRIPLE CORD REEL WITH THREE HOSPITAL GRADE RECEPTACLES - CHEMETRON 82-31-5200/82-32-8000(3)/23001-HG. SUPPORT FROM STRUCTURE WITH 3/8" THREADED RODS. PROVIDE ANTISWAY BRACING.
2. PROVIDE DANIEL WOODHEAD INDUSTRIAL CABLE REEL WITH 25 FEET 12/S SOW CABLE AND 15A GFCI DUPLEX RECEPTACLE - CATALOG NUMBER 9383-3070G. INCLUDED BALL-STOP.
3. PROVIDE AN EIGHT (8) WIRE FEED TO PRE-WIRED MODULAR FURNITURE AS REQUIRED. PROVIDE FLEXIBLE CONDUIT CONNECTION TO FURNITURE AS REQUIRED. COORDINATE INSTALLATION IN FIELD AND WITH ARCHITECTURAL FURNITURE SHOP DRAWINGS/INSTALLER PRIOR TO CIRCUITRY. INSTALL AS REQUIRED FOR A COMPLETE WORKING INSTALLATION
4. PROVIDE WITH LIQUID TIGHT JUNCTION BOX.
5. PROVIDE GFI RECEPTACLE.
6. GENERATOR ACCESSORIES PANEL TO FEED THE FOLLOWING UNIT MOUNTED LOADS: BATTERY CHARGER AND HEATERS, ENGINE BLOCK HEATER, ENGINE COOLANT HEATER. ACCESSORIES TO BE FURNISHED WITH GENERATOR SET.
7. EXTEND 1" EMPTY CONDUIT TO SIGN FOR FUTURE DATA CONNECTION.
8. GATE TO BE CONTROLLED VIA CARD READER AND TELEPHONE SYSTEM. COORDINATE SPECIFICATION SECTION 27 51 13 INTERCOM AND SECTION 28 31 00 ACCESS CONTROL WITH SECTION 32 31 13 GATES.
9. PROVIDE LUDLUM 375-20 RADIATION WASTE MONITOR WITH (2) SCINTILLATION DETECTORS. MOUNT MONITOR 60" AFF. EXTEND CABLES FURNISHED WITH MONITOR TO DETECTORS. MOUNT DETECTORS ABOVE SLIDING DOOR HEAD, ONE EACH SIDE OF OPENING.
10. DOOR TO OPEN ON SUCCESSFUL CARD READ OR BY USE OF PUSHBUTTON.
11. PROVIDE ZAP N TRAP 80 WATT STAINLESS STEEL INSECT TRAP 120 VOLT AVAILABLE FROM AMAZON. PROVIDE DUPLEX RECEPTACLE AT 84" AFF.
12. PROVIDE WIREMOLD EFSB4 FOUR GANG RECESSED BOX BEHIND FLAT SCREEN. LOCATE DUPLEX RECEPTACLE AND DATA JACK SHOWN ADJACENT IN BOX.
13. PROVIDE FIRE ALARM MONITOR MODULE.
14. PROVIDE RECEPTACLE.
15. WIRE UP / DOWN / STOP SWITCH FURNISHED WITH SCREEN.
16. COORDINATE OUTLET LOCATIONS WITH ARTICULATING ARMS.
17. WIRE SWITCH.
18. WIRE LIMIT SWITCHES, SENSORS AND PUSHBUTTONS.

SPECIAL OUTLET SCHEDULE - Medical Examiner's Equipment

TAG	DRIVING	LOC.	FEED FROM		BREAKER		BRANCH WIRING			POWER			SEE NOTE
			PANEL	CIRCUIT	SIZE	POLE	NO	SIZE	COND.	VOLT	PH	LOAD	
ME1a	BACKDRAFT AUTOPSY (STATION)	#144D	LC	43	15	1	2 + G	12	1/2"	120	1		4
ME1b	BACKDRAFT AUTOPSY (DISPOSAL)	#144D	LC	45	20	1	2 + G	12	1/2"	120	1		4
ME1c	BACKDRAFT AUTOPSY (STATION)	#130	LC	47	15	1	2 + G	12	1/2"	120	1		4
ME1d	BACKDRAFT AUTOPSY (DISPOSAL)	#130	LC	49	20	1	2 + G	12	1/2"	120	1		4
ME1e	BACKDRAFT AUTOPSY (STATION)	#130	LC	51	15	1	2 + G	12	1/2"	120	1		4
ME1f	BACKDRAFT AUTOPSY (DISPOSAL)	#130	LC	53	20	1	2 + G	12	1/2"	120	1		4
ME1g	BACKDRAFT AUTOPSY (STATION)	#132	LC	55	15	1	2 + G	12	1/2"	120	1		4
ME1h	BACKDRAFT AUTOPSY (DISPOSAL)	#132	LC	57	20	1	2 + G	12	1/2"	120	1		4
ME2	RECESSED BODY SCALE	#144							3/4"				1
ME4	BODY HOIST	#150	LC	61	20	1	2 + G	12	1/2"	120	1		
ME5a	PORTABLE DIGITAL X-RAY	#141	LB	47	20	1	2 + G	12	1/2"	120	1		7
ME5b	PORTABLE DIGITAL X-RAY	#141	LB	49	20	1	2 + G	12	1/2"	120	1		7
ME6a	SURGICAL LIGHT	#130	LC	44	20	1	2 + G	12	1/2"	120	1		8
ME6b	SURGICAL LIGHT	#130	LC	46	20	1	2 + G	12	1/2"	120	1		8
ME6c	SURGICAL LIGHT	#132	LC	48	20	1	2 + G	12	1/2"	120	1		8
ME6Aa	SURGICAL LIGHT CONTROL PANEL	#130	LC	44	20	1	2 + G	12	1/2"	120	1		5
ME6Ab	SURGICAL LIGHT CONTROL PANEL	#130	LC	46	20	1	2 + G	12	1/2"	120	1		5
ME6Ac	SURGICAL LIGHT CONTROL PANEL	#132	LC	48	20	1	2 + G	12	1/2"	120	1		5
ME6Ba	SURGICAL LIGHT POWER SUPPLY	#130	LC	44	20	1	2 + G	12	1/2"	120	1		5, 6
ME6Bb	SURGICAL LIGHT POWER SUPPLY	#130	LC	46	20	1	2 + G	12	1/2"	120	1		5, 6
ME6Bc	SURGICAL LIGHT POWER SUPPLY	#132	LC	48	20	1	2 + G	12	1/2"	120	1		5, 6
ME9a	BODY COOLER - COMPRESSOR	#130E	FC	2, 4, 6	50	3	3 + G	6	1"	208	3	24.6MCA	6
ME9b	BODY COOLER - EVAPORATOR	#130E					2 + G	12	1/2"	120	1	4.2MCA	2
ME9c	BODY COOLER - COMPRESSOR	#130E	FC	8, 10, 12	50	3	3 + G	6	1"	208	3	24.6MCA	6
ME9d	BODY COOLER - EVAPORATOR	#130E					2 + G	12	1/2"	120	1	4.2MCA	2
ME11a	FREEZER - COMPRESSOR	#130F	FC	1, 3, 5	50	3	3 + G	6	1"	208	3	26FLA	6
ME11b	FREEZER - EVAPORATOR	#130F					2 + G	12	1/2"	208	1	3.2MCA	3
ME11c	FREEZER - COMPRESSOR	#130F	FC	7, 9, 11	50	3	3 + G	6	1"	208	3	26FLA	6
ME11d	FREEZER - EVAPORATOR	#130F					2 + G	12	1/2"	208	1	3.2MCA	3
ME12	PORTABLE BODY LIFT	#150	LC	70	20	1	2 + G	12	1/2"	120	1		7
ME13	FULL BODY X-RAY MACHINE	#141	MSB		75	3	3 + G	3/0	2"	480	3		
ME14a	COPY STAND WITH MOBILE CART	#130	LC	71	20	1	2 + G	12	1/2"	120	1	VERIFY	
ME14b	COPY STAND WITH MOBILE CART	#132	LC	72	20	1	2 + G	12	1/2"	120	1	VERIFY	
ME15	CT SCANNER (FUTURE) - NO WORK REQUIRED												

NOTES:

1. RUN CONDUIT FOR DIGITAL READOUT CONCEALED UNDER CONCRETE SLAB AND IN WALL. INSTALL CABLE FURNISHED WITH SCALE.
2. WIRE FROM SPECIAL OUTLET 16.
3. WIRE FROM SPECIAL OUTLET 16a.
4. PROVIDE WITH LIQUID TIGHT JUNCTION BOX.
5. SEE SHEET Q800 FOR MOUNTING HEIGHT.
6. LOCATED ON SHELF. PROVIDE (2) QUAD OUTLETS BELOW. CABLES WILL ROUTE VIA GROMMET IN SHELF.
7. PROVIDE RECEPTACLE. CONFIRM REQUIREMENTS WITH MEDICAL EXAMINER BEFORE ROUGH-IN.
8. PROVIDE 2" CONDUIT TO WALL OUTLET BELOW SPECIAL OUTLET ME6B FOR CABLES. SEE FLOOR PLAN.

dorschner associates

Architecture
Planning

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ISSUE

01.12.15 CONSTRUCTION DOCUMENTS

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)

3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
SCHEDULES

DATE
01.12.15

PANEL LA

225 AMP Main Circuit Breaker | 208Y/120 VOLT, THREE PHASE, FOUR WIRE | LOCATION: RM #110

MOUNTING TYPE: Surface | SHORT CIRCUIT INTERRUPTING RATING: 10 K.A.I.C

CIRCUIT BKR. AMPS	POLES	LOAD DESCRIPTION	LOAD TYPE	CIRCUIT WATTS	#	PHASE LOADS A	B	C	CIRCUIT #	WATTS	LOAD TYPE	LOAD DESCRIPTION	CIRCUIT BKR. AMPS	POLES
20	1	SPARE			1	1000			2	1000	E	SPECIAL OUTLET GD	20	1
20	1	SPECIAL OUTLET H1a	R	900	3		2400		4	1500	R	SPECIAL OUTLETS OHCR 1a	20	1
15	1	SPECIAL OUTLET H1b	R	900	5			900	6			SPARE	20	1
20	1	SPECIAL OUTLET #PS	R	500	7	1400			8	900	R	RECEPTACLES - 5	20	1
50	2	SPECIAL OUTLET R	R	4000	9		4900		10	900	R	RECEPTACLES - 5	20	1
-	-	SPECIAL OUTLET R	R	4000	11			4720	12	720	R	RECEPTACLES - 4	20	1
20	1	RECEPTACLES - 5 & MONITOR	R	1500	13	2220			14	720	R	RECEPTACLES - 4	20	1
20	1	RECEPTACLES - 5	R	900	15		1900		16	1000	R	RECEPTACLE - 1 COPY	20	1
20	1	RECEPTACLES - 5	R	900	17			1900	18	1000	R	RECEPTACLE - 1 COPY	20	1
20	1	RECEPTACLE - 1 COPY	R	1000	19	2320			20	1320	R	RECEPTACLES - 5 TV	20	1
20	1	RECEPTACLES - 5	R	900	21		2400		22	1500	R	RECEPTACLES - 6 TV	20	1
20	1	RECEPTACLES - 4	R	720	23			1800	24	1080	R	RECEPTACLES - 6	20	1
20	1	RECEPTACLES - 5	R	900	25	1620			26	720	R	RECEPTACLES - 4	20	1
20	1	RECEPTACLES - 4 TV	R	1140	27		2040		28	900	R	RECEPTACLES - 5	20	1
20	1	RECEPTACLES - 4	R	720	29			1440	30	720	R	RECEPTACLES - 4	20	1
20	1	RECEPTACLES - 4	R	720	31	2220			32	1500	R	SPECIAL OUTLET MOPF	20	3
20	1	RECEPTACLES - 5	R	900	33		2400		34	1500	R	SPECIAL OUTLET MOPF	-	-
20	1	RECEPTACLES - 5	R	900	35			2400	36	1500	R	SPECIAL OUTLET MOPF	-	-
20	1	RECEPTACLES - 5	R	900	37	2400			38	1500	R	SPECIAL OUTLET MOPF	20	3
20	1	RECEPTACLES - 4	R	720	39		2220		40	1500	R	SPECIAL OUTLET MOPF	-	-
20	1	RECEPTACLES - 5	R	900	41			2400	42	1500	R	SPECIAL OUTLET MOPF	-	-
20	1	RECEPTACLES - 6, LS-1c, 5b	R	1080	43	2580			44	1500	R	SPECIAL OUTLET MOPF	20	1
20	1	WIREMOLD	R	1260	45		2760		46	1500	R	SPECIAL OUTLET MOPF	20	1
20	1	WIREMOLD	R	1260	47			2160	48	900	R	RECEPTACLES - 5	20	1
20	1	RECEPTACLES - 4	R	720	49	1620			50	900	R	RECEPTACLES - 5	20	1
20	1	RECEPTACLES - 4	R	720	51		1020		52	300	H	CUH-1	20	1
20	1	RECEPTACLES - 2	R	360	53			660	54	300	H	CUH-2	20	1
20	1	EF-1	V	696	55	705			56	9	H	UH-8	20	1
20	1	GROSSING STATION HYD. PUMP	R	1500	57		2500		58	1000	R	WIREMOLD, LS-1b	20	1
20	1	WIREMOLD	R	1000	59			2000	60	1000	R	WIREMOLD	20	1
20	1	WIREMOLD	R	1000	61	2200			62	1200	R	RECEPTACLES - 1 REF	20	1
20	1	RECEPTACLE - 1 FAX	R	600	63		600		64			SPARE	20	1
20	1	SPARE			65			0	66			SPARE	20	1
20	1	SPARE			67	0			68			SPACE		
		SPACE			69		0		70			SPACE		
		SPACE			71			0	72			SPACE		
		SPACE			73	0			74			SPACE		
		SPACE			75		0		76			SPACE		
		SPACE			77			0	78			SPACE		
		SPACE			79	0			80			SPACE		
		SPACE			81		0		82			SPACE		
		SPACE			83			0	84			SPACE		
						20285	25140	20380				PANEL TOTAL LOAD =	65.8	KW
													182.7	AMP

NOTES:
1) PANEL SHALL BE SQUARE D NQ ONLY.
2) SHARED NEUTRALS ARE NOT ACCEPTABLE THROUGHOUT THIS PROJECT. EACH BREAKER MUST HAVE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.
3) PROVIDE GFI BREAKERS FOR THE FOLLOWING CIRCUITS: 58, 60

PANEL LB

150 AMP Main Circuit Breaker | 208Y/120 VOLT, THREE PHASE, FOUR WIRE | LOCATION: RM #139

MOUNTING TYPE: Surface | SHORT CIRCUIT INTERRUPTING RATING: 10 K.A.I.C

BREAKER AMPS	POLES	DESCRIPTION	Load Category	CIRCUIT WATTS	#	PHASE LOADS A	B	C	CIRCUIT #	WATTS	Load Category	DESCRIPTION	BREAKER AMPS	POLES
20	1	RECEPTACLES - 5	R	900	1	1440			2	540	R	RECEPTACLES - 3	20	1
20	1	RECEPTACLES - 5	R	900	3		1815		4	915	R	RECEPTACLES - 5 & UNDERCAB	20	1
20	1	RECEPTACLES - 5	R	900	5			1800	6	900	R	RECEPTACLES - 5	20	1
30	2	SPECIAL OUTLET DRY	R	2500	7	3500			8	1000	R	RECEPTACLE - 1 (WASHER)	20	1
-	-	SPECIAL OUTLET DRY	R	2500	9		3220		10	720	R	RECEPTACLES - 4	20	1
20	1	RECEPTACLES - 4 & UNDERCABS	R	788	11			1148	12	360	R	RECEPTACLES - 2	20	1
20	1	PEDESTAL OUTLET	R	1000	13	1540			14	540	R	RECEPTACLES - 3	20	1
20	1	PEDESTAL OUTLET	R	1000	15		1720		16	720	R	RECEPTACLES - 4	20	1
20	1	PEDESTAL OUTLET	R	1000	17			2080	18	1080	R	RECEPTACLES - 6	20	1
20	1	PEDESTAL OUTLET	R	1000	19	1540			20	540	R	RECEPTACLES - 3	20	1
20	1	PEDESTAL OUTLET	R	1000	21		2000		22	1000	R	FLOOR BOX	20	1
20	1	PEDESTAL OUTLET	R	1000	23			2000	24	1000	R	FLOOR BOX	20	1
20	1	PEDESTAL OUTLET	R	1000	25	2000			26	1000	R	FLOOR BOX	20	1
20	1	PEDESTAL OUTLET	R	1000	27		2000		28	1000	R	RECEPTACLES - 1 PROJECTOR	20	1
20	1	PEDESTAL OUTLET	R	1000	29			2200	30	1200	R	RECEPTACLES - 2 TELEVISIONS	20	1
20	1	PEDESTAL OUTLET	R	1000	31	2200			32	1200	R	RECEPTACLES - 2 TELEVISIONS	20	1
20	1	RECEPTACLES - 2	R	360	33		360		34			SPARE	20	1
20	1	RECEPTACLES - 6	R	1080	35			1080	36			SPARE	20	1
20	1	RECEPTACLES - 4	R	720	37	1800			38	1080	R	RECEPTACLES - 6	20	1
20	1	RECEPTACLES - 4	R	720	39		1416		40	696	V	EF-6	20	1
20	1	CONTROL - ACC-1,2,3	E	100	41			964	42	864	H	UH-9	20	1
20	1	GATE - 2a	E	1200	43	2400			44	1200	R	RECEPTACLE - 1 REF	20	1
20	1	GATE - 2b	E	1200	45		2200		46	1000	E	SPECIAL OUTLET SIGN	20	1
20	1	SPECIAL OUTLET #ME5a	E	1000	47			1100	48	100	E	SPECIAL OUTLET CA	20	1
20	1	SPECIAL OUTLET #ME5b	E	1000	49	2000			50	1000	E	SPECIAL OUTLET GD	20	1
20	1	SPECIAL OUTLET SD-2	E	800	51		800		52			SPARE	20	1
20	2	XRAY	E		53			0	54			SPARE	20	1
X	X	X	E		55	0			56			SPARE	20	1
20	1	MIRCROWAVE	E	1000	57		1000		58			SPARE	20	1
					59			0	60					
					61	0			62					
					63		0		64					
					65			0	66					
					67	0			68					
					69		0		70					
					71			0	72					
					73	0			74					
					75		0		76					
					77			0	78					
					79	0			80					
					81		0		82					
					83			0	84					
						18420	16531	12372				PANEL TOTAL LOAD =	47.3	KW
													131.4	AMP

NOTES:
1) PANEL SHALL BE SQUARE D NQ ONLY.
2) SHARED NEUTRALS ARE NOT ACCEPTABLE THROUGHOUT THIS PROJECT. EACH BREAKER MUST HAVE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.

PANEL LC

300 AMP Main Circuit Breaker | 208Y/120 VOLT, THREE PHASE, FOUR WIRE | LOCATION: RM #145

MOUNTING TYPE: Surface | SHORT CIRCUIT INTERRUPTING RATING: 10 K.A.I.C

CIRCUIT BKR. AMPS	POLES	LOAD DESCRIPTION	LOAD TYPE	CIRCUIT WATTS	#	PHASE LOADS A	B	C	CIRCUIT #	WATTS	LOAD TYPE	LOAD DESCRIPTION	CIRCUIT BKR. AMPS	POLES
20	1	RECEPTACLES - 6, 5e	R	1080	1	1080			2			SPARE	20	1
20	1	RECEPTACLES - 5, LS-1a, LS-2a, 2d, 5f, 5g	R	932	3		1432		4	500	R	SPECIAL OUTLET #10	20	1
20	1	SPARE			5			500	6	500	R	SPECIAL OUTLET #16	20	1
20	1	SPECIAL OUTLET OHCR-1c	R	1500	7	2500			8	1000	R	SPECIAL OUTLET #45	20	1
20	1	SPARE			9		934		10	934	R	RECEPTACLES - 5 & UNDERCABS	20	1
20	1	SPECIAL OUTLET OHCR-1e	R	1500	11			2454	12	954	R	RECEPTACLES - 4 & UNDERCABS	20	1
20	1	SPECIAL OUTLET OHCR-1f	R	1500	13	1800			14	300	R	SPECIAL OUTLET FH6-ADA-SS	25	1
20	1	SPARE			15		1000		16	1000	R	WIREMOLD	20	1
20	1	SPARE			17			1000	18	1000	R	WIREMOLD	20	1
20	1	SPARE			19	540			20	540	R	RECEPTACLES - 3	20	1
20	1	B-1	H		21		1000		22	1000	R	SPECIAL OUTLET #27a THRU 27e	20	1
20	1	B-2	H		23			0	24			SPARE	20	1
20	1	CP-1	E		25	528			26	528	A	P-8	20	1
20	1	UH-2	H	156	27		165		28	9	H	UH-1	20	1
20	1	UH-3	H	156	29			312	30	156	H	UH-4	20	1
20	1	RECEPTACLES - 2	R	360	31	1360			32	1000	R	WIREMOLD	20	1
20	1	WIREMOLD, SPECIAL OUTLET #5a	R	1000	33		2000		34	1000	R	WIREMOLD	20	1
20	1	WIREMOLD	R	1000	35			2000	36	1000	R	WIREMOLD, SPECIAL OUTLET 5c	20	1
20	1	WIREMOLD	R	1000	37	2000			38	1000	R	WIREMOLD, LS-2b	20	1
20	1	WIREMOLD	R	1000	39		2000		40	1000	R	WIREMOLD, LS-2c, 5d	20	1
20	1	RECEPTACLE - 1	R	1000	41			2000	42	1000	R	WIREMOLD	20	1
15	1	SPECIAL OUTLETS #ME1a	R	1250	43	2750			44	1500	L	SPECIAL OUTLETS #ME6a, Aa, Ba	20	1
20	1	SPECIAL OUTLETS #ME1b	R	1250	45		2750		46	1500	L	SPECIAL OUTLETS #ME6b, Ab, Bb	20	1
15	1	SPECIAL OUTLETS #ME1c	R	1250	47			2750	48	1500	L	SPECIAL OUTLETS #ME6c, Ac, Bc	20	1
20	1	SPECIAL OUTLETS #ME1d	R	1250	49	1250			50			SPARE	20	1
15	1	SPECIAL OUTLETS #ME1e	R	1250	51		1250		52			SPARE	20	1
20	1	SPECIAL OUTLETS #ME1f	R	1250	53			1250	54			SPARE	20	1
15	1	SPECIAL OUTLETS #ME1g	R	1250	55	1250			56			SPARE	20	1
20	1	SPECIAL OUTLETS #ME1h	R	1250	57		1250		58			SPARE	20	1
20	1	SPECIAL OUTLETS SD-1	E	800	59			800	60			SPARE	20	1
20	1	SPECIAL OUTLETS #ME4	R	1250	61	1250			62			SPARE	20	1
20	1	SPECIAL OUTLETS SD-3	E	800	63		800		64			SPARE	20	1
20	1	SPECIAL OUTLETS SD-4	E	800	65			800	66			SPARE	20	1
20	1	SPECIAL OUTLETS SD-5	E	800	67	800			68			SPARE	20	1
20	1	TCP-2 & SPECIAL OUTLET HSC	R	1250	69		2500		70	1250	R	SPECIAL OUTLETS #ME12	20	1
20	1	SPECIAL OUTLETS #ME14a	R	1250	71			2500	72	1250	R	SPECIAL OUTLETS #ME14b	20	1
20	1	SPECIAL OUTLETS WHR-1	H	1500	73	1500			74			SPARE	20	1
20	1	SPECIAL OUTLETS WHR-2	H	1500	75		2000		76	500	H	PP-1	20	1
20	1	PP-2	H	500	77			500	78			SPARE	20	1
20	2	SPECIAL OUTLET GATE-1	E	920	79	920			80			SPARE	20	1
X	X	X	E	920	81		920		82			SPARE	20	1
20	1	SPARE			83			0	84			SPARE	20	1
						18448	20001	16866				PANEL TOTAL LOAD =	55.3	KW
													153.5	AMP

NOTES:
1) PANEL SHALL BE SQUARE D NQ ONLY.
2) SHARED NEUTRALS ARE NOT ACCEPTABLE THROUGHOUT THIS PROJECT. EACH BREAKER MUST HAVE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.
3) FURNISH SINGLE TUB, 84 CIRCUIT PANEL, 20" WIDE.
4) PROVIDE GFI BREAKERS FOR THE FOLLOWING CIRCUITS: 36, 38, 40, 42

PANEL LD

100 AMP Main Circuit Breaker | 208Y/120 VOLT, THREE PHASE, FOUR WIRE | LOCATION: RM #150

MOUNTING TYPE: Surface | SHORT CIRCUIT INTERRUPTING RATING: 10 K.A.I.C

CIRCUIT BKR. AMPS	POLES	LOAD DESCRIPTION	LOAD TYPE	CIRCUIT WATTS	#	PHASE LOADS A	B	C	CIRCUIT #	WATTS	LOAD TYPE	LOAD DESCRIPTION	CIRCUIT BKR. AMPS	POLES
20	1	RECEPTACLES - 5 & UNDERCABS	R	985	1	1885			2	900	R	RECEPTACLES - 5	20	1
20	1	RECEPTACLES - 5	R	900	3		1900		4	1000	R	SPECIAL OUTLETS Rda & RDb	20	1
20	1	RECEPTACLES - 5	R	900	5			1800	6	900	R	RECEPTACLES - 5	20	1
20	1	SPECIAL OUTLET OHCO-2a, b	R	1500	7	1500			8			SPARE	20	1
20	1	SPECIAL OUTLET OHCO-2c, d	R	1500	9		1500		10			SPARE	20	1
20	1	SPECIAL OUTLET OHCO-2e, j	R	1500	11			1500	12			SPARE	20	1
20	1	SPECIAL OUTLET OHCO-2f, g, h	R	1500	13	1622			14	122	V	EF-3	20	1
20	1	TCP-1	R	100	15		256		16	156	H	UH-5	20	1
20	1	SPARE			17			156	18	156	H	UH-6	20	1
20	1	SPECIAL OUTLET PWMP	E		19	156			20	156	H	UH-7	20	1
20	1	SPECIAL OUTLET GWMP	E		21		0		22					
20	1	SPECIAL OUTLET AD	E	100	23			100	24					
30	2	SPECIAL OUTLET GAP-1	E	2250	25	2250			26					
X	X	X	E	2250	27		2250		28					
30	2	SPECIAL OUTLET GAP-2	E	2250	29			2250	30					
X	X	X	E	2250	31	2250			32					
					33		0		34					
					35			0	36					
20	1	SPARE			37	0			38			SPARE	20	1
20	1	SPARE			39		0		40			SPARE	20	1
20	1	SPARE			41			0	42			SPARE	20	1
						9663	5906	5806				PANEL TOTAL LOAD =	21.4	KW
													59.3	AMP

NOTES:
1) PANEL SHALL BE SQUARE D NQ ONLY.
2) SHARED NEUTRALS ARE NOT ACCEPTABLE THROUGHOUT THIS PROJECT. EACH BREAKER MUST HAVE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.

PANEL HA

400 AMPS MAIN LUGS | 480Y/277 VOLT, THREE PHASE, FOUR WIRE | LOCATION: RM. #110

MOUNTING TYPE: SURFACE | SHORT CIRCUIT INTERRUPING RATING: SEE NOTE 1 K.A.I.C

CIRCUIT BKR. AMPS	POLES	DESCRIPTION	LOAD TYPE	CIRCUIT WATTS	#	PHASE LOADS A	B	C	CIRCUIT #	WATTS	LOAD TYPE	DESCRIPTION	CIRCUIT BKR. AMPS	POLES
20	1	LIGHTING	L	3266	1	3848			2	582	A	P-9	20	3
20	1	LIGHTING	L	3009	3		3591		4	582	A	X	X	X
70	3	AHU-2	A	9422	5			10004	6	582	A	X	X	X
X	X	X	A	9422	7	10253			8	831	V	REF/EF-AHU-1	20	3
X	X	X	A	9422	9		10253		10	831	V	X	X	X
20	3	REF/EF-AHU-3	V	1330	11			2161	12	831	V	X	X	X
X	X	X	V	1330	13	4378			14	3048	V	SF-AHU-1	25	3
X	X	X	V	1330	15		4378		16	3048	V	X	X	X
25	3	SF-AHU-3	V	3048	17			6096	18	3048	V	X	X	X
X	X	X	V	3048	19	3048			20					
X	X	X	V	3048	21		3048		22					
150	3	XMFR	R	25000	23			25000	24					
X	X	X	R	25000	25	25000			26					
X	X	X	R	25000	27		25000		28					
					29			0	30					
					31	0			32					
					33		0		34					
					35			0	36					
					37	0			38					
					39		0		40					
					41			0	42					
						46527	46270	43261				PANEL TOTAL LOAD =	136.1	KW
													163.7	AMP

NOTES:
1) PROVIDE BREAKERS ACHIEVING A SERIES RATING OF 35,000AIC
2) PANEL SHALL BE SQUARE D TYPE NF ONLY.

PANEL HB

200 AMPS MAIN LUGS | 480Y/277 VOLT, THREE PHASE, FOUR WIRE | LOCATION: RM. #139

MOUNTING TYPE: SURFACE | SHORT CIRCUIT INTERRUPING RATING: SEE NOTE 1 K.A.I.C

CIRCUIT BKR. AMPS	POLES	DESCRIPTION	LOAD TYPE	CIRCUIT WATTS	#	PHASE LOADS A	B	C	CIRCUIT #	WATTS	LOAD TYPE	DESCRIPTION	CIRCUIT BKR. AMPS	POLES
20	1	SITE LIGHTING	L	720	1	1360			2	640	L	SITE LIGHTING	20	1
20	1	EXTERIOR BUILDING LIGHTING	L	1091	3		4468		4	3377	L	LIGHTING	20	1
20	1	LIGHTING	L	3706	5			6450	6	2744	A	ACC-2	20	3
50	3	ACC-1	A	11917	7	14661			8	2744	A	X	X	X
X	X	X	A	11917	9		14661		10	2744	A	X	X	X
X	X	X	A	11917	11			12222	12	305	V	EF-5	20	3
20	3	ACC-3	A	2744	13	3049			14	305	V	X	X	X
X	X	X	A	2744	15		3049		16	305	V	X	X	X
X	X	X	A	2744	17			4850	18	2106	A	P-11	20	3
20	3	P-10	A	2106	19	4212			20	2106	A	X	X	X
X	X	X	A	2106	21		4212		22	2106	A	X	X	X
X	X	X	A	2106	23			7926	24	5820	A	P-13	50	3
50	3	P-12	A	5820	25	11640			26	5820	A	X	X	X
X	X	X	A	5820	27		11640		28	5820	A	X	X	X
X	X	X	A	5820	29			20820	30	15000	R	XFMR	100	3
					31	15000			32	15000	R	X	X	X
					33		15000		34	15000	R	X	X	X
					35			0	36					
					37	0			38					
					39		0		40					
					41			0	42					
						49922	53030	52268				PANEL TOTAL LOAD =	155.2	KW
													186.7	AMP

NOTES:
1) PROVIDE BREAKERS ACHIEVING A SERIES RATING OF 65,000AIC
2) PANEL SHALL BE SQUARE D TYPE NF ONLY.

PANEL HC

400 AMPS MAIN LUGS | 480Y/277 VOLT, THREE PHASE, FOUR WIRE | LOCATION: 150

MOUNTING TYPE: SURFACE | SHORT CIRCUIT INTERRUPING RATING: SEE NOTE 1 K.A.I.C

CIRCUIT BKR. AMPS	POLES	DESCRIPTION	LOAD TYPE	CIRCUIT WATTS	#	PHASE LOADS A	B	C	CIRCUIT #	WATTS	LOAD TYPE	DESCRIPTION	CIRCUIT BKR. AMPS	POLES
20	1	LIGHTING	L	3436	1	4076			2	640	L	SITE LIGHTING	20	1
20	1	LIGHTING	L	2760	3		4866		4	2106	A	AHU-4	20	3
20	1	LIGHTING	L	3450	5			5556	6	2106	A	X	X	X
20	1	LIGHTING	L	2185	7	4291			8	2106	A	X	X	X
20	1	LIGHTING	L	2185	9		6065		10	3880	V	EF-2	30	3
20	3	P-1	A	831	11			4711	12	3880	V	X	X	X
X	X	X	A	831	13	4711			14	3880	V	X	X	X
X	X	X	A	831	15		3879		16	3048	A	P-3	25	3
20	3	P-2	A	831	17			3879	18	3048	A	X	X	X
X	X	X	A	831	19	3879			20	3048	A	X	X	X
X	X	X	A	831	21		2937		22	2106	A	P-5	20	3
25	3	P-4	A	3048	23			5154	24	2106	A	X	X	X
X	X	X	A	3048	25	5154			26	2106	A	X	X	X
X	X	X	A	3048	27		4378		28	1330	A	P-7	20	3
20	3	P-6	A	2106	29			3436	30	1330	A	X	X	X
X	X	X	A	2106	31	3436			32	1330	A	X	X	X
X	X	X	A	2106	33		4157		34	2051	H	B-1 & B-2	20	3
150	3	XMFR	R	25000	35			27051	36	2051	H	X	X	X
X	X	X	R	25000	37	27051			38	2051	H	X	X	X
X	X	X	R	25000	39		25000		40					
					41			0	42					
					43	0			44					
					45		0		46					
					47			0	48					
					49	0			50					
					51		0		52					
					53			0	54					
					55	0			56					
					57		0		58					
					59			0	60					
						52598	51282	49787				PANEL TOTAL LOAD =	153.7	KW
													184.8	AMP

NOTES:
1) PROVIDE BREAKERS ACHIEVING A SERIES RATING OF 35,000AIC
2) PANEL SHALL BE SQUARE D TYPE NF ONLY.
3) PROVIDE SINGLE TUB, 60 CIRCUIT PANEL, 20" WIDE.

PANEL HD

100 AMPS MAIN LUGS | 480Y/277 VOLT, THREE PHASE, FOUR WIRE | LOCATION: RM. #150

MOUNTING TYPE: SURFACE | SHORT CIRCUIT INTERRUPING RATING: SEE NOTE 1 K.A.I.C

CIRCUIT BKR. AMPS	POLES	DESCRIPTION	LOAD TYPE	CIRCUIT WATTS	#	PHASE LOADS A	B	C	CIRCUIT #	WATTS	LOAD TYPE	DESCRIPTION	CIRCUIT BKR. AMPS	POLES
20	1	LIGHTING	L	3145	1	3785			2	640	L	SITE LIGHTING	20	1
20	1	LIGHTING	L	2400	3		3730		4	1330	V	EF-4	20	3
20	1	LIGHTING	L	2880	5			4210	6	1330	V	X	X	X
60	3	XMFR	R	5000	7	6330			8	1330	V	X	X	X
X	X	X	R	5000	9		7105		10	2105	E	SPECIAL OUTLET AC	20	3
X	X	X	R	5000	11			7105	12	2105	E	X	X	X
20	3	4 OHD	E	3767	13	5872			14	2105	E	X	X	X
X	X	X	E	3767	15		3767		16					
X	X	X	E	3767	17			3767	18					
20	3	4 OHD	E	3767	19	3767			20					
X	X	X	E	3767	21		3767		22					
X	X	X	E	3767	23			3767	24					
20	3	2 OHD	E	1884	25	1884			26					
X	X	X	E	1884	27		1884		28					
X	X	X	E	1884	29			1884	30					
					31	0			32					
					33		0		34					
					35			0	36					
					37	0			38					
					39		0		40					
					41			0	42					
						21638	20253	20733				PANEL TOTAL LOAD =	62.6	KW
													75.3	AMP

NOTES:
1) PROVIDE BREAKERS ACHIEVING A SERIES RATING OF 14,000AIC
2) PANEL SHALL BE SQUARE D TYPE NF ONLY.

PANEL FC

225 AMP Main Circuit Breaker | 208Y/120 VOLT, THREE PHASE, FOUR WIRE | LOCATION: RM #150

MOUNTING TYPE: Surface | SHORT CIRCUIT INTERRUPTING RATING: 10 K.A.I.C

CIRCUIT BKR. AMPS	POLES	LOAD DESCRIPTION	LOAD TYPE	CIRCUIT WATTS	#	PHASE LOADS A	B	C	CIRCUIT #	WATTS	LOAD TYPE	LOAD DESCRIPTION	CIRCUIT BKR. AMPS	POLES
50	3	FREEZER COMPRESSOR	E	3120	1	6076			2	2956	E	COOLER COMPRESSOR	50	3
X	X	X	E	3120	3		6076		4	2956	E	X	X	X
X	X	X	E	3120	5			6076	6	2956	E	X	X	X
50	3	FREEZER COMPRESSOR	E	3120	7	6076			8	2956	E	COOLER COMPRESSOR	50	3
X	X	X	E	3120	9		6076		10	2956	E	X	X	X
X	X	X	E	3120	11			6076	12	2956	E	X	X	X
40	3	FREEZER CONTROL PANEL	E	2400	13	4800			14	2400	E	COOLER CONTROL PANEL	40	3
X	X	X	E	2400	15		4800		16	2400	E	X	X	X
X	X	X	E	2400	17			4800	18	2400	E	X	X	X
					19	0			20					
					21		0		22					
					23			0	24					
					25	0			26					
					27		0		28					
					29			0	30					
					31	0			32					
					33		0		34					
					35			0	36					
20	1	SPARE			37	0			38			SPARE	20	1
20	1	SPARE			39		0		40			SPARE	20	1
20	1	SPARE			41			0	42			SPARE	20	1
						16952	16952	16952				PANEL TOTAL LOAD =	50.9	KW
													141.2	AMP

NOTES:
1) PANEL SHALL BE SQUARE D NQ ONLY.
2) SHARED NEUTRALS ARE NOT ACCEPTABLE THROUGHOUT THIS PROJECT. EACH BREAKER MUST HAVE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.

PANEL LSL

100 AMP Main Circuit Breaker | 208Y/120 VOLT, THREE PHASE, FOUR WIRE | LOCATION: RM #139

MOUNTING TYPE: Surface | SHORT CIRCUIT INTERRUPTING RATING: 10 K.A.I.C

CIRCUIT BKR. AMPS	POLES	LOAD DESCRIPTION	LOAD TYPE	CIRCUIT WATTS	#	PHASE LOADS A	B	C	CIRCUIT #	WATTS	LOAD TYPE	LOAD DESCRIPTION	CIRCUIT BKR. AMPS	POLES
20	1	FIRE ALARM CONTROL PANEL	R	200	1	200			2					
20	1	SPARE	R		3		0		4					
20	1	SPARE	R		5			0	6					
20	1	SPARE	R		7	0			8					
					9		0		10					
					11			0	12					
					13	0			14					
					15		0		16					
					17			0	18					
					19	0			20					
						200	0	0				PANEL TOTAL LOAD =	0.2	KW
													0.6	AMP

NOTES:
1) PANEL SHALL BE SQUARE D NQ ONLY.
2) SHARED NEUTRALS ARE NOT ACCEPTABLE THROUGHOUT THIS PROJECT. EACH BREAKER MUST HAVE A SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT.

PANEL LSH

100 AMPS MAIN LUGS | 480Y/277 VOLT, THREE PHASE, FOUR WIRE | LOCATION: RM. #139

MOUNTING TYPE: SURFACE | SHORT CIRCUIT INTERRUPING RATING: SEE NOTE 2 K.A.I.C

CIRCUIT BKR. AMPS	POLES	DESCRIPTION	LOAD TYPE	CIRCUIT WATTS	#	PHASE LOADS A	B	C	CIRCUIT #	WATTS	LOAD TYPE	DESCRIPTION	CIRCUIT BKR. AMPS	POLES
20	1	EXTERIOR BUILDING	L	205	1	205			2		L	EXIT LIGHITNG	20	1
20	1	EMERGENCY LIGHTING	L	1330	3		1330		4					
20	1	LIGHTING	L	640	5			640	6					
					7	0			8					
					9		0		10					
					11			0	12					
					13	0			14					
					15		0		16					
					17			0	18					
					19	0			20					
					21		0		22					
					23			0	24					
					25	0			26					
					27		0		28					
					29			0	30					
					31	0			32					
					33		0		34					
					35			0	36					
					37	0			38					
					39		0		40					
					41			0	42					
						205	1330	640				PANEL TOTAL LOAD =	2.2	KW
													2.6	AMP

NOTES:
1) PANEL SHALL BE SQUARE D TYPE NF ONLY.
2) PROVIDE BREAKERS ACHIEVING A SERIES RATING OF 65,000AIC

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ISSUE
01.12.15 CONSTRUCTION DOCUMENTS

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
SCHEDULES

DATE
01.12.15

MOTOR WIRING SCHEDULE

TAG	DRIVING	LOC.	POWER			FEED FROM		BREAKER		BRANCH WIRING			STARTER					DISCONNECT					SEE NOTE
			HP	VOLT	PH	PANEL	CIRCUIT	SIZE	POLE	NO	SIZE	COND.	FURN.	INST.	WIRED	LOC.	TYPE	FURN.	INST.	WIRED	LOC.	TYPE	
ACC-1	AIR COOLED CONDENSER	ROOF	43MCA	480	3	HB	7,9,11	50	3	3+G	6	1/2"	HV	MFR	EC	IU	VFD	EC	EC	EC	NU	WPFD	2
ACC-2	AIR COOLED CONDENSER	ROOF	3.3MCA	480	3	HB	6,8,10	20	3	3+G	12	1/2"	HV	MFR	EC	IU	VFD	EC	EC	EC	NU	WPFD	2
ACC-3	AIR COOLED CONDENSER	ROOF	3.3MCA	480	3	HB	13,15,17	20	3	3+G	12	1/2"	HV	MFR	EC	IU	VFD	EC	EC	EC	NU	WPFD	2
AHU-2	AIR HANDLING UNIT	ROOF	25 HP	480	3	HA	5,7,9	80	3	3+G	8	3/4"	HV	HV	EC	IU	VFD	HV	EC	EC	OU	NFD	
AHU-4	AIR HANDLING UNIT	150	5 HP	480	3	HC	4,6,8	20	3	3+G	12	1/2"	EC	EC	EC	IU	VFD	HV	EC	EC	OU	NFD	1
B-1	HOT WATER BOILER	#145	3.7MCA	480	3	HC	34,36,38	20	1	2	12	1/2"	HV	HV	EC	IU	MAN	EC	EC	EC	NU	LMRS	
B-2	HOT WATER BOILER	#145	3.7MCA	480	3	HC	34,36,38	20	1	2	12	1/2"	HV	HV	EC	IU	MAN	EC	EC	EC	NU	LMRS	
CH-1	AIR COOLED WATER CHILLER	#154	318MCA	480	3	MSB		400	3	3+G	500KCMIL	3"	HV	HV	EC	IU	SS	HV	EC	EC	NU	NFD	
CP-1	CIRCULATING PUMP	#145	FRAC	120	1	LC	25	20	1	2	12	1/2"	HV	HV	EC	IU	MAN	EC	EC	EC	NU	LMRS	
CRAC-1	COMPUTER ROOM UNIT	#154	77.8MCA	480	3	MSB		90	3	3+G	4	1-1/4"	HV	HV	EC	IU	MAG	EC	EC	EC	NU	FD	1
CRAC-2	COMPUTER ROOM UNIT	#154	77.8MCA	480	3	MSB		90	3	3+G	4	1-1/4"	HV	HV	EC	IU	MAG	EC	EC	EC	NU	FD	1
CUH-1	HOT WATER CABINET UNIT HEATER	#1000	1/10	120	1	LA	52	20	1	2	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
CUH-2	HOT WATER CABINET UNIT HEATER	#1009	1/10	120	1	LA	54	20	1	2	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
EF-1	FAN	ROOF	1/4	120	1	LA	55	20	1	2	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
EF-2	FAN	ROOF	(2) 10	480	3	HC	10,12,14	30	3	3+G	12	1/2"	HV	HV	EC	145	VFD	HV	HV	EC	IU	WPSW	
EF-3	FAN	#150	122 W	120	1	LD	14	20	1	2+G	12	1/2"	HV	MFR	EC	IU	VFD	HV	HV	EC	IU	LMRS	
EF-4	FAN	#150	3	480	3	HD	4,6,8	20	3	3+G	12	1/2"	EC	MFR	EC	IU	VFD	EC	EC	EC	NU	FD	1
EF-5	FAN	ROOF	1/2	480	3	HB	12,14,16	20	3	3+G	12	1/2"	EC	MFR	EC	IU	MAG	EC	EC	EC	NU	FD	1
EF-6	FAN	ROOF	1/4	120	1	LB	40	20	1	2+G	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
P-1	HVAC PUMP 1	#145	1.5	480	3	HC	11,13,15	20	3	3+G	12	1/2"	EC	EC	EC	NU	MAG	EC	EC	EC	NU	FD	1
P-2	HVAC PUMP 2	#145	1.5	480	3	HC	17,19,21	20	3	3+G	12	1/2"	EC	EC	EC	NU	MAG	EC	EC	EC	NU	FD	1
P-3	HVAC PUMP 3	#145	7.5	480	3	HC	16,18,20	25	3	3+G	12	1/2"	HV	HV	EC	NU	VFD	EC	EC	EC	NU	FD	
P-4	HVAC PUMP 4	#145	7.5	480	3	HC	23,25,27	25	3	3+G	12	1/2"	HV	HV	EC	NU	VFD	EC	EC	EC	NU	FD	
P-5	HVAC PUMP 5	#145	5	480	3	HC	22,24,26	20	3	3+G	12	1/2"	HV	HV	EC	NU	MAG	EC	EC	EC	NU	FD	
P-6	HVAC PUMP 6	#145	5	480	3	HC	29,31,33	20	3	3+G	12	1/2"	HV	HV	EC	NU	MAG	EC	EC	EC	NU	FD	
P-7	HVAC PUMP 7	#145	3	480	3	HC	28,30,32	20	3	3+G	12	1/2"	EC	EC	EC	NU	MAG	EC	EC	EC	NU	FD	1
P-8	HVAC PUMP 8	#145	1/6	120	1	LC	26	20	1	3+G	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
P-9	HVAC PUMP 9	#111	1	480	3	HA	2,4,6	20	3	3+G	12	1/2"	EC	EC	EC	NU	MAG	EC	EC	EC	NU	FD	
P-10	HVAC PUMP 10	#154	5	480	3	HB	19,21,23	20	3	3+G	12	1/2"	EC	EC	EC	NU	MAG	EC	EC	EC	NU	FD	1
P-11	HVAC PUMP 11	#154	5	480	3	HB	18,20,22	20	3	3+G	12	1/2"	EC	EC	EC	NU	MAG	EC	EC	EC	NU	FD	1
P-12	HVAC PUMP 12	#154	15	480	3	HB	25,27,29	50	3	3+G	10	3/4"	EC	EC	EC	NU	MAG	EC	EC	EC	NU	FD	1
P-13	HVAC PUMP 13	#154	15	480	3	HB	24,26,28	50	3	3+G	10	3/4"	EC	EC	EC	NU	MAG	EC	EC	EC	NU	FD	1
PP-1	PLUMBING PUMP 1	#145	FRAC	120	1	LC	76	20	1	2+G	12	1/2"	PC	PC	EC	IU	BOL	PC	PC	EC	IU	LMRS	
PP-2	PLUMBING PUMP 2	#145	FRAC	120	1	LC	77	20	1	2+G	12	1/2"	PC	PC	EC	IU	BOL	PC	PC	EC	IU	LMRS	
RF/EF-AHU-1	RETURN FAN / EXHAUST FAN FOR AHU-1	ROOF	1.5	480	3	HA	8,10,12	20	3	3+G	12	1/2"	HV	HV	EC	NU	VFD	HV	EC	EC	OU	NFD	
RF/EF-AHU-3	RETURN FAN / EXHAUST FAN FOR AHU-3	ROOF	3	480	3	HA	11,13,15	20	3	3+G	12	1/2"	HV	HV	EC	NU	VFD	HV	EC	EC	OU	NFD	4
SF-AHU-1	SUPPLY FAN FOR AHU-1	ROOF	7.5	480	3	HA	14,16,18	25	3	3+G	12	1/2"	HV	HV	EC	NU	VFD	HV	EC	EC	OU	NFD	4
SF-AHU-3	SUPPLY FAN FOR AHU-3	ROOF	7.5	480	3	HA	17,19,21	25	3	3+G	12	1/2"	HV	HV	EC	NU	VFD	HV	EC	EC	OU	NFD	
UH-1	UNIT HEATER	#145	9 W	120	1	LC	28	20	1	2+G	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
UH-2	UNIT HEATER	#150	1/20	120	1	LC	27	20	1	2+G	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
UH-3	UNIT HEATER	#150	1/20	120	1	LC	29	20	1	2+G	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
UH-4	UNIT HEATER	#150	1/20	120	1	LC	30	20	1	2+G	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
UH-5	UNIT HEATER	#150	1/20	120	1	LD	16	20	1	2+G	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
UH-6	UNIT HEATER	#150	1/20	120	1	LD	18	20	1	2+G	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
UH-7	UNIT HEATER	#150	1/20	120	1	LD	20	20	1	2+G	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
UH-8	UNIT HEATER	#200	9 W	120	1	LA	56	20	1	2+G	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
UH-9	UNIT HEATER	#154	1/3	120	1	LB	42	20	1	2+G	12	1/2"	HV	HV	EC	IU	BOL	HV	HV	EC	IU	LMRS	
OHD	OVERHEAD DOOR	150	2	480	3	SEE	PLAN	20	3	3+G	12	1/2"	MFR	EC	EC	NU	MAG	EC	EC	EC	NU	FD	3

ABBREVIATIONS:

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

NOTES:

1. PROVIDE FVNR NEMA 1 MAGNETIC STARTER WITH H-O-A SWITCH, CONTROL CIRCUIT TRANSFORMER AND RUN PILOT LIGHTS. PROVIDE TWO INTERLOCK CONTACTS.
2. EXTEND CIRCUIT LB-41 TO CONTROLS ON UNIT.
3. WIRE PUSH BUTTON AND SAFETY CONTROLS.
4. PROVIDE DUCT DETECTOR IN RETURN AIR STREAM. WIRE TO SHUT DOWN UNIT. PROVIDE REMOTE TEST SWITCH AND INDICATOR STATION IN ROOM 140.

AUTOMATIC LIGHTING CONTROL PANEL SCHEDULE

RELAY	CONTROLS	CIRCUIT	CONTROLLED BY:
1	EXTERIOR LIGHTING	HB-1	PHOTOCELL AND PROGRAM
2	EXTERIOR LIGHTING	HB-2	PHOTOCELL AND PROGRAM
3	EXTERIOR LIGHTING	HB-3	PHOTOCELL AND PROGRAM
3	GARAGE LIGHTING	HB-5a	OR1,2 AND PROGRAM
4	GARAGE LIGHTING	HB-5b	OR1,2 AND PROGRAM
5	GARAGE LIGHTING	HB-1a	OR3,4 AND PROGRAM
6	GARAGE LIGHTING	HB-1b	OR3,4 AND PROGRAM
7	AUTOPSY LIGHTING	HC-1a	OR5,6
8	AUTOPSY LIGHTING	HC-5	OR5,6
9	AUTOPSY LIGHTING	HC-7	OR5,6
10	AUTOPSY LIGHTING	HC-9	OR5,6
11	AUTOPSY LIGHTING	HC-3a	OR7
12	AUTOPSY LIGHTING	HC-3b	OR7
13	AUTOPSY LIGHTING	HC-5c	OR7
14	SPO - SIGN	LB-46	PHOTOCELL AND PROGRAM
SPARE			
SPARE			
SPACE			
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NOTES: PROVIDE LEVITON R24BD-16 EZ-MAX RELAY PANEL. PROVIDE OUT-DOOR PHOTOCELL. PROVIDE ZMDSW DIGITAL SWITCHES WHERE SHOWN ON THE PLANS. PROVIDE MACHINE MADE IDENTIFICATION FOR EACH SWITCH.

PANEL UPS

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

BREAKER AMPS	BREAKER POLES	DESCRIPTION	CIRCUIT Load Category	CIRCUIT WATTS	CIRCUIT #	PHASE LOADS A	PHASE LOADS B	PHASE LOADS C	CIRCUIT #	CIRCUIT WATTS	Load Category	DESCRIPTION	BREAKER AMPS	BREAKER POLES
20	1	RECEPTACLES - 3	R	540	1	900			2	360	R	RECEPTACLES - 2	20	1
20	1	RECEPTACLES - 3	R	540	3		1040		4	500	R	SPECIAL OUTLET CA	20	1
20	1	RECEPTACLES - 3	R	540	5			1540	6	1000	R	SPECIAL OUTLET PDU	30	2
30	2	SPECIAL OUTLET PDU	R	1000	7	2000			8	1000	R	X	-	-
-	-	X	R	1000	9		2000		10	1000	R	SPECIAL OUTLET PDU	30	2
30	2	SPECIAL OUTLET PDU	R	1000	11			2000	12	1000	R	X	-	-
-	-	X	R	1000	13	2000			14	1000	R	SPECIAL OUTLET PDU	30	2
30	2	SPECIAL OUTLET PDU	R	1000	15		2000		16	1000	R	X	-	-
-	-	X	R	1000	17			2000	18	1000	R	SPECIAL OUTLET PDU	30	2
30	2	SPECIAL OUTLET PDU	R	1000	19	2000			20	1000	R	X	-	-
-	-	X	R	1000	21		2440		22	1440	R	911 WORKSTATION - 4R	20	1
30	2	SPECIAL OUTLET PDU	R	1000	23			2440	24	1440	R	911 WORKSTATION - 4R	20	1
-	-	X	R	1000	25	2440			26	1440	R	911 WORKSTATION - 4R	20	1
30	2	SPECIAL OUTLET PDU	R	1000	27		2440		28	1440	R	911 WORKSTATION - 4R	20	1
-	-	X	R	1000	29			2440	30	1440	R	911 WORKSTATION - 4R	20	1
30	2	SPECIAL OUTLET PDU	R	1000	31	2440			32	1440	R	911 WORKSTATION - 4R	20	1
-	-	X	R	1000	33		2440		34	1440	R	911 WORKSTATION - 4R	20	1
30	2	SPECIAL OUTLET PDU	R	1000	35			2440	36	1440	R	911 WORKSTATION - 4R	20	1
-	-	X	R	1000	37	2440			38	1440	R	911 WORKSTATION - 4R	20	1
20	1	RECEPTACLES - 2	R	360	39		1800		40	1440	R	911 WORKSTATION - 4R	20	1
20	1	RECEPTACLES - 3	R	540	41			1980	42	1440	R	911 WORKSTATION - 4R	20	1
30	2	SPECIAL OUTLET PDU	R	1000	43	2440			44	1440	R	911 WORKSTATION - 4R	20	1
-	-	X	R	1000	45		2440		46	1440	R	911 WORKSTATION - 4R	20	1
30	2	SPECIAL OUTLET PDU	R	1000	47			2440	48	1440	R	911 WORKSTATION - 4R	20	1
-	-	X	R	1000	49	2000			50	1000	R	SPECIAL OUTLET PDU	30	2
30	2	SPECIAL OUTLET PDU	R	1000	51		2000		52	1000	R	X	-	-
-	-	X	R	1000	53			2000	54	1000	R	SPECIAL OUTLET PDU	30	2
30	2	SPECIAL OUTLET PDU	R	1000	55	2000			56	1000	R	X	-	-
-	-	X	R	1000	57		2000		58	1000	R	SPECIAL OUTLET PDU	30	2
30	2	SPECIAL OUTLET PDU	R	1000	59			2000	60	1000	R	X	-	-
-	-	X	R	1000	61	2000			62	1000	R	SPECIAL OUTLET PDU	30	2
30	2	SPECIAL OUTLET PDU	R	1000	63		2000		64	1000	R	X	-	-
-	-	X	R	1000	65			2000	66	1000	R	SPECIAL OUTLET PDU	30	2
30	2	SPECIAL OUTLET PDU	R	1000	67	2000			68	1000	R	X	-	-
-	-	X	R	1000	69		2000		70	1000	R	SPECIAL OUTLET PDU	30	2
20	1	SPARE			71			1000	72	1000	R	X	-	-
20	1	SPARE			73	1000			74	1000	R	SPECIAL OUTLET PDU	30	2
20	1	SPARE			75		1000		76	1000	R	X	-	-
20	1	SPARE			77			1000	78	1000	R	SPECIAL OUTLET PDU	30	2
20	1	SPARE			79	1000			80	1000	R	X	-	-
20	1	SPARE			81		1000		82	1000	R	SPECIAL OUTLET PDU	30	2
20	1	SPARE			83			1000	84	1000	R	X	-	-
						26660	26600	26280						

TOTAL LOADS: 79540 WATTS
DEMAND:
221 AMPS

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ISSUE
01.12.15 CONSTRUCTION DOCUMENTS

PROJECT
MEDICAL EXAMINER OFFICE BUILDING (BID PACKAGE B)
3562 COUNTY HIGHWAY AB
MC FARLAND, WI 53558

BID NO.
313083

DRAWING
SCHEDULES

DATE
01.12.15