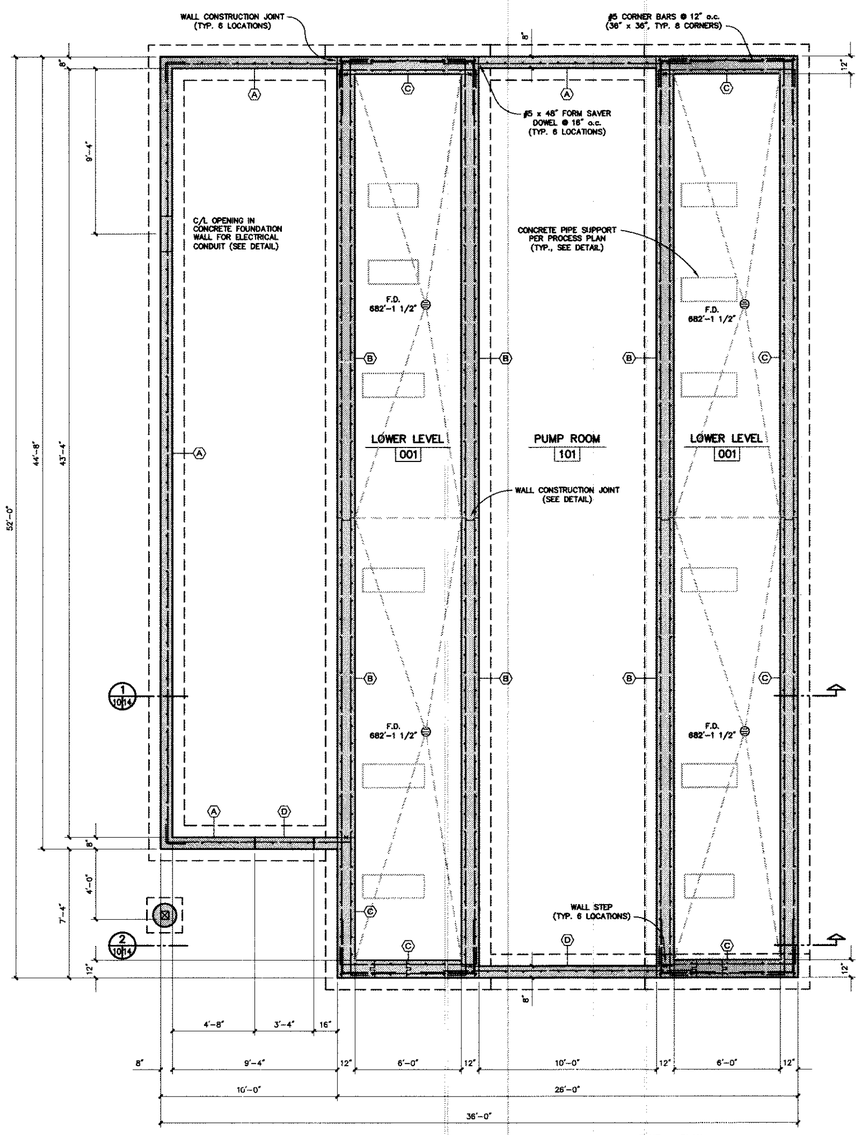


BASE SLAB & WALL PLAN

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

TRUE NORTH PLAN NORTH

NOTES

1. 12" WALL CONSTRUCTION JOINT LOCATIONS ARE PROPOSED. CONTRACTOR MAY PROPOSE ALTERNATE LOCATIONS. 12" WALLS SHALL NOT BE A SINGLE POUR.
2. COORDINATE AND ALIGN MASONRY CONTROL JOINTS WITH 8" WALL CONTROL JOINTS.

FOUNDATION WALL ELEVATION SCHEDULE

I.D.	T/WALL	T/FOOTING
Ⓐ	688'-6"	685'-6"
Ⓑ	687'-10"	682'-3"
Ⓒ	688'-6"	682'-3"
Ⓓ	687'-10"	685'-6"

DESIGN LOAD SUMMARY

GOVERNING CODE	2015 MICHIGAN BUILDING CODE
STRUCTURE CATEGORY	III
WOOD TRUSS	
TOP CHORD SNOW LOAD	30 psf (ASD)
TOP CHORD DEAD LOAD	15 psf (ASD)
BOTTOM CHORD DEAD LOAD	10 psf (ASD)
ROOF PLANK	
PLANK DEAD LOAD	75 psf (ASD)
PLANK LIVE LOAD	20 psf (ASD)
SNOW	
GROUND SNOW LOAD, P_g	35 psf (ASD)
FLAT ROOF SNOW, P_f	30 psf (ASD)
SNOW EXPOSURE, C_e	1.0
SNOW IMPORTANCE, I_s	1.1
THERMAL FACTOR, C_t	1.1
WIND	
WIND SPEED, V	120 mph
EXPOSURE	B
COMPONENTS & CLADDING (ENCLOSED)	
WALLS	+25.9/-28.1 psf (LRFD)
ROOF	+16.0/-41.3 psf (LRFD)
SEISMIC	
SEISMIC IMPORTANCE, I_e	1.25
SOIL SITE CLASSIFICATION	D
MAPPED SPECTRAL RESPONSE ACCELERATION	
S_{DS}	0.077
S_{D1}	0.071
SEISMIC DESIGN CATEGORY	B
SEISMIC-FORCE RESISTING SYSTEM	
A. BEARING WALL SYSTEM	
#9 ORDINARY REINFORCED CMU SHEAR WALLS	
RESPONSE MODIFICATION FACTOR, R	2
DESIGN BASE SHEAR	V=0.0481W (ASD)
EQUIVALENT LATERAL FORCE PROCEDURE	

BUILDING CODE DATA

BUILDING AREA	1,799 SFT.
BUILDING USE	WATER PUMPING STATION
OCCUPANCY	GROUP F, DIVISION 2 *
TYPE OF CONSTRUCTION	V - B
NUMBER OF STORIES	1
BUILDING HEIGHT	21'-6"

* = NON-ACCESSIBLE PER IBC 1103.2.9

INSULATED CONCRETE MASONRY UNIT (CMU) NOTES

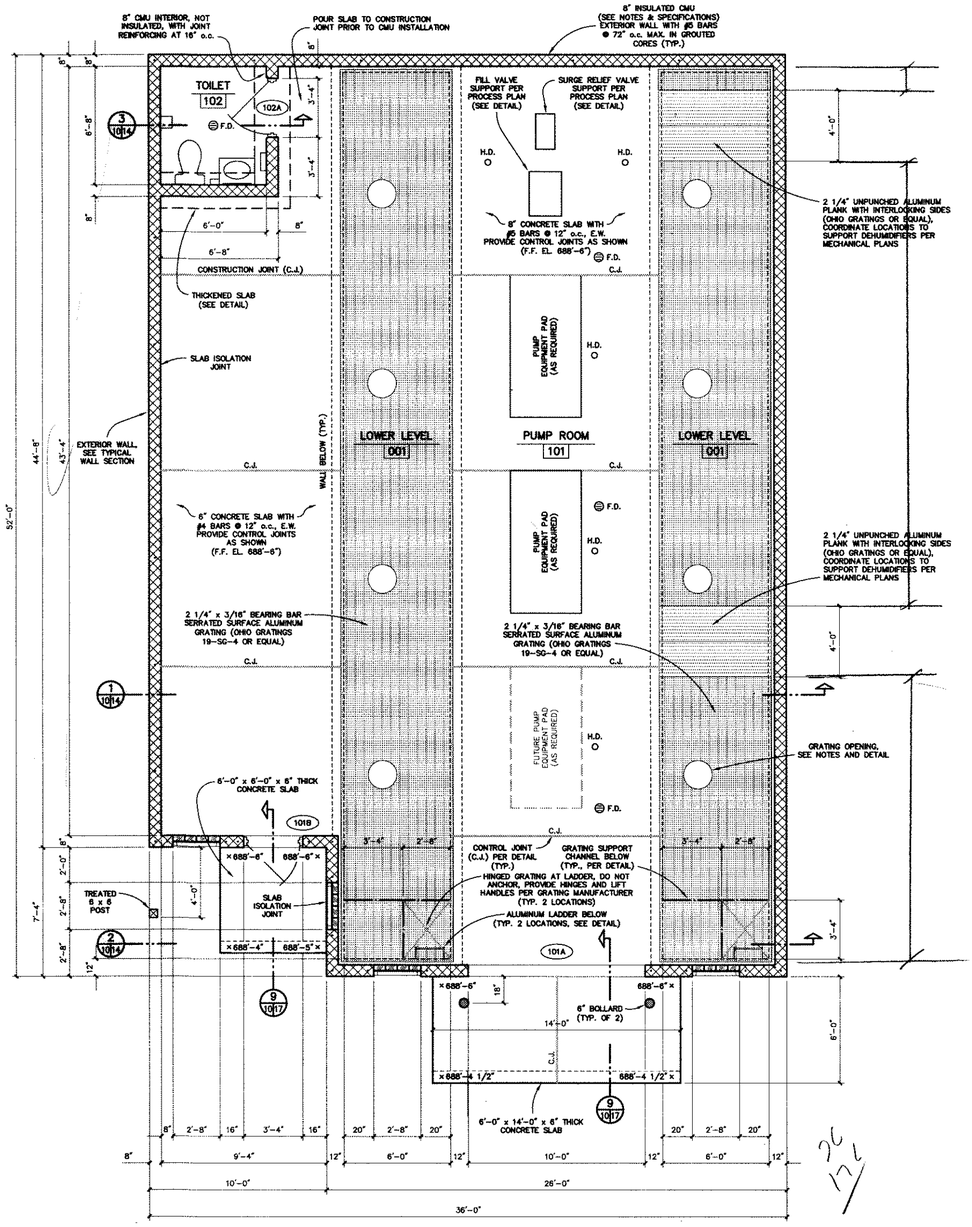
1. INSULATED CONCRETE MASONRY UNITS ARE A SINGLE WYTHE WALL ASSEMBLY WITH NO DIRECT CROSS WEBS AND MOLDED EPS INSULATION INSERTS AND SHALL COMPLY WITH PRESCRIPTIVE INSULATION REQUIREMENTS FOR ABOVE GRADE MASS WALL CONSTRUCTION FOR CLIMATE ZONE 5. SEE SPECIFICATION 04 22 19.
2. PROVIDE (1) BAR EACH SIDE OF OPENING AND CONTROLS JOINTS UNLESS NOTED OTHERWISE.
3. GROUT CORES OF CMU AT ALL REINFORCING
4. PROVIDE MOLDED EPS INSULATION INSERTS IN ALL UNGROUTED CELLS.

ALUMINUM GRATING NOTES

1. ALL GRATING OPENING LOCATIONS AND SIZE SHALL BE COORDINATED WITH APPROPRIATE TRADES.
2. ALL GRATING EDGES SHALL BE BANDED.
3. ALL GRATING ANCHORS AND HARDWARE SHALL BE STAINLESS STEEL.
4. MINIMUM AVERAGE WIDTH OF ANY GRATING SECTION SHALL BE 16 INCHES. MAXIMUM WEIGHT OF ANY GRATING SECTION SHALL BE 75 POUNDS.
5. GRATING SHALL BE ANCHORED PER MANUFACTURERS RECOMMENDATIONS, MINIMUM FOUR (4) LOCATIONS PER GRATING PIECE.
6. ALUMINUM IN CONTACT WITH CONCRETE OR MASONRY SURFACES SHALL BE COATED WITH TNEMEC SERIES 66 EPOXY, 2-4 MILS THICK.

ALUMINUM PLANK NOTES

1. PLANK SECTIONS SHALL BE BANDED TOGETHER TO FORM STANDARD PANEL WIDTHS, 24" TYPICAL, WHERE POSSIBLE.
2. MAXIMUM WEIGHT OF ANY BANDED PLANK SECTION SHALL BE 75 POUNDS.



FLOOR & SLAB PLAN – EL. 688'-6"

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

TRUE NORTH PLAN NORTH

NOTE

SEE SITE PLAN FOR EXTERIOR CONCRETE PAVING AND SIDEWALKS BEYOND SLABS SHOWN

NO.	REVISIONS	BY	DATE
-	-	-	-

DRAWN SMYTH
DATE JULY '20
CHECKED D.A.B.
DATE JULY '20

Prein&Newhof
Engineers ▪ Surveyors ▪ Environmental ▪ Laboratory

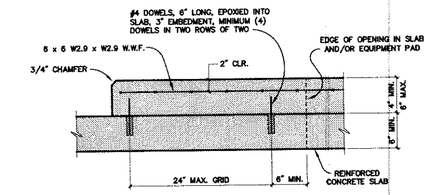
CITY OF WYOMING
KENT COUNTY, MICHIGAN

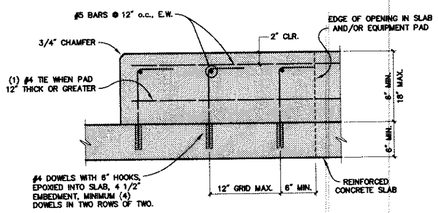
BURLINGAME PUMP STATION IMPROVEMENTS
CONTRACT No. 1 – STRUCTURAL

STRUCTURAL PLANS

PROJECT NO. 2180582
SHEET NO. 10 OF 31

I:\CIVIL\0 PROJECTS\2018\2180582_WYOMING_BURLINGAME PS PROCESS\4_PROD\2180582_STRUCTURAL.DWG - MSMITH - Jul 14, 2020 - 12:15pm - PreloNewhof



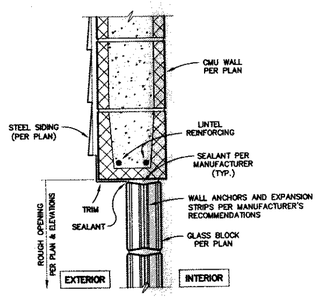


EQUIPMENT PAD DETAILS

SCALE : 1" = 1'-0"

NOTE

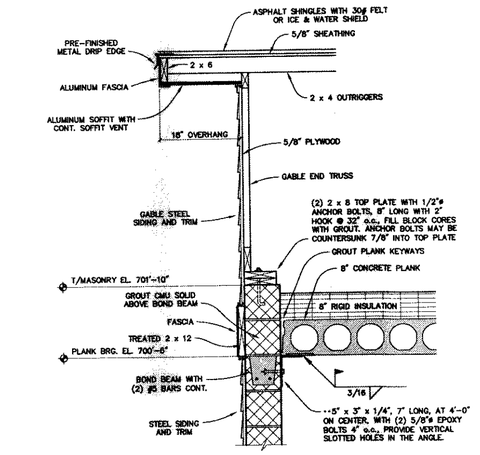
NEW SLAB AND EQUIPMENT PAD CONSTRUCTION SHOWN. NEW EQUIPMENT PAD CONSTRUCTION ON EXISTING SLABS SIMILAR. ROUGHEN THE SURFACE OF THE EXISTING CONCRETE SLAB.



WINDOW HEAD DETAIL

(GLASS BLOCK)

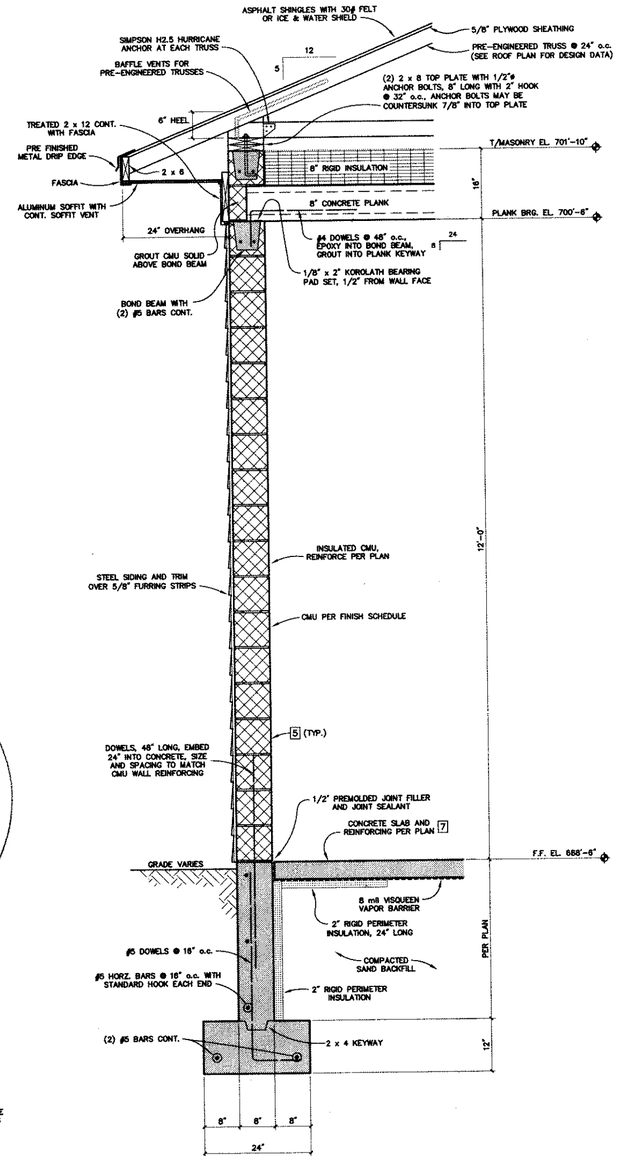
SCALE : 1 1/2" = 1'-0"



NON-BEARING PLANK DETAIL

6 / 11/16

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



TYPICAL WALL SECTION

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

SECTION

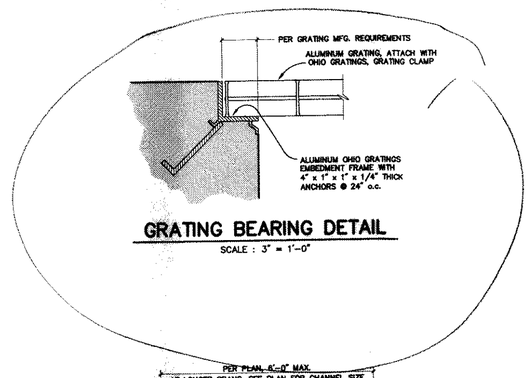
7 / 11/16

SCALE : 1" = 1'-0"

WINDOW SILL DETAIL

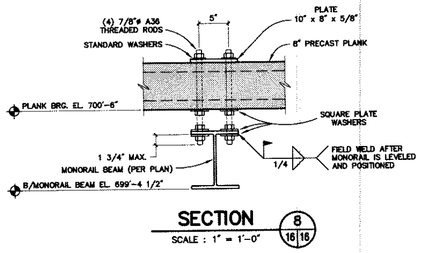
(GLASS BLOCK)

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



GRATING BEARING DETAIL

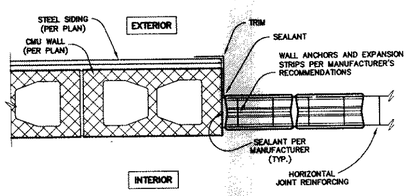
SCALE : 3" = 1'-0"



SECTION

8 / 16/16

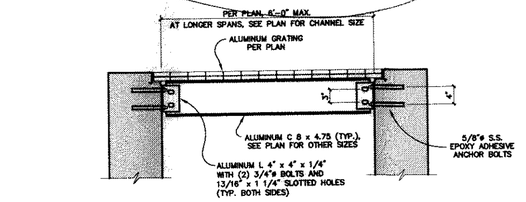
SCALE : 1" = 1'-0"



WINDOW JAMB DETAIL

(GLASS BLOCK)

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



GRATING SUPPORT CHANNEL DETAIL

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

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–	–	–	–

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