WASTEWATER SYSTEM CONSTRUCTION DETAILS

WW-01  TYPICAL SERVICE CONNECTION
WW-02  TYPICAL SERVICE LAYOUT
WW-03  WASTEWATER LATERAL CROSSING UNDER DRAINAGE STRUCTURE WITH LESS THAN 18" CLEARANCE
WW-04  STANDARD APPLICATION FOR WASTEWATER SERVICE CLEANOUT INSTALLED IN ASPHALT OR CONCRETE
WW-05  TYPICAL RESIDENTIAL STANDARD SERVICE CONNECTION
WW-06  INSIDE DROP MANHOLES
WW-07  TEMPORARY PROTECTION OF SERVICE LATERAL CLEANOUT STACK AND MANHOLE FRAME AND COVER
WW-08  PIPING UNDER PAVEMENT
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WW-10  MINIMUM ACCEPTABLE BEDDING FOR TYPICAL WASTEWATER LINE
WW-11  PRECAST CONCRETE AIR RELEASE VALVE BOX
WW-12  TYPICAL SECTION ECCENTRIC CONE PRECAST MANHOLE
WW-13  TYPICAL SECTION OF PRECAST SHALLOW MANHOLE
WW-14  TYPICAL SECTION ECCENTRIC CONE DROP MANHOLE
WW-15  TYPICAL PRECAST MANHOLE JOINT DETAIL
WW-16  PLAN OF MANHOLE INVERTS
WW-17  TYPICAL FORCE MAIN DISCHARGE TO RECEIVING MANHOLE
WW-18  STANDARD MANHOLE FRAMES FOR COVERS
WW-19  STANDARD MANHOLE COVERS
WW-20  24" PAMREX MANHOLE COVER AND FRAME
WW-21  PUMP STATION SITE PLAN
WW-22  PUMP STATION: PLAN VIEW OF ABOVE GROUND YARD PIPING AND PLAN VIEW OF WETWELL
WW-23 SECTION A: ABOVE GROUND YARD PIPING
WW-24 SECTION B: ABOVE GROUND YARD PIPING
WW-25 FLOW TUBE AND TRANSMITTER SHIELD DETAIL
WW-26 YARD PIPING VENT DETAIL
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WW-28 SINGLE DOOR ACCESS TO SUBMERSIBLE STATION
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APPENDICES

APPENDIX A WASTEWATER LINE CONNECTION PROCEDURES
APPENDIX B WASTEWATER SERVICE LATERAL LOCATION POLICY
APPENDIX C OIL, GREASE, AND SOLIDS REMOVAL STANDARD
NOTES:
1. IF 18" COVER NOT POSSIBLE UNDER DRIVEWAY, USE DUCTILE IRON PIPE LINED WITH PROTECTO 401 (40 MILS THICKNESS)
2. SERVICE LINE TO BE LAID ON A MINIMUM SLOPE OF 1/8" PER FOOT.
3. IF TYING INTO STACK USE STREET ELLS OR DOUBLE 45'S.
4. NO ADDITIONAL DISCHARGES (SUCH AS ROOF DRAINS, FLORIDA HEAT PUMPS, ETC.) SHALL BE ALLOWED INTO THE GRAVITY WASTEWATER LINE.
CUTOUT REQUIRED:
WITHIN 5' OF FOUNDATION
EVERY 75' ALONG LENGTH OF SERVICE
AT EVERY BEND GREATER THAN 45'

TYPICAL 4" PLUG
INSTALLED BY
CONTRACTOR

1' MIN
2' MAX
6" SDR-26 PVC SERVICE LATERAL AND FITTINGS

SEWER MAIN

20' JOINT DIP (TYP.)

COMPACTED CRUSHED #57 GRANITE

BOTTOM OF DRAINAGE STRUCTURE

18" MIN.

TO RESIDENCE

GASKETED PVC TO DIP TRANSITION COUPLING (TYP.) WHERE REQUIRED

NOTES:
1. IF 18" OF CLEARANCE IS NOT POSSIBLE UNDER DRAINAGE, USE POLY-WRAPED DUCTILE IRON PIPE LINED W/ PROTECTO 401 (40 MILSTTHICKNESS)
2. TRANSITION FROM PVC TO DIP USING GASKETED PVC SLIP-ON TRANSITION COUPLINGS (NO FERNCO OR MJ COUPLINGS) WHERE REQUIRED
3. DETAIL ALSO APPLIES TO UN-PIPED DITCH CROSSINGS OR SWALES WITH LESS THAN 36" OF COVER

MOUNT PLEASANT WATERWORKS
WASTEWATER LATERAL CROSSING UNDER DRAINAGE STRUCTURE WITH LESS THAN 18" CLEARANCE

APPROVED BY: MPW
DATE: FEB 2009
DRAWING NO.: WW-03

REVISIONS:
NTS

SCALE: NTS

REVISED: FEB 2009
NOTE: THE INSPECTION FRAME AND COVER IS TO BE USED IN ALL PAVED AND CONCRETE APPLICATIONS.

STANDARD RISER FRAME & COVER AS APPROVED BY M.P.W.S.C. USE NEENAH INSPECTION FRAME AND COVER MODEL R-1976, USF COVER MODEL 7621, OR APPROVED EQUAL. COVER TO READ "SEWER"

FINISHED PAVEMENT OR CONCRETE

THREADED BRASS CAP

NEENAH INSPECTION FRAME & COVER TO BE SET IN REINFORCED CONCRETE COLLAR.
THE LAST JOINT OF WASTEWATER MAIN ENTERING A DROP MANHOLE SHALL BE A FULL JOINT OF DIP WHICH COMPLIES WITH MPW SPECS FOR DIP LINED W/ PROTECTO 401 (40 MILS THICKNES) OR APPROVED EQUAL.

TURNED UP TEE

CORE MANHOLE INSTALL BOOT, GROUT INSIDE AND OUT

INSTALLATION OF INSIDE DROPS FOR PIPES ENTERING MANHOLE AT AN ELEVATION GREATER THAN 18" ABOVE INVERT

MPW MAY REQUIRE THE INSTALLATION OF A MORTAR "SLIDE" TO MINIMIZE DEBRIS ACCUMULATION ON BENCH

S.S. HANGERS 18" O.C.

DROP PIPE MATERIAL SHALL BE THE SAME AS ENTRY PIPE

45° BEND

MANHOLE INVERT

BENCH

SEE TYPICAL PRECAST JOINT DETAIL WW-15

STANDARD 4’ INSIDE DIAMETER MANHOLES MAY BE USED FOR INSIDE DROP FOR 4” AND 6” WASTEWATER LATERALS.
THE NEXT LARGER DIAMETER MANHOLE SHALL BE USED FOR INSIDE DROPS 8” AND LARGER.
REFER TO CONSTRUCTION DETAIL NO. 12 FOR MANHOLE DIAMETERS REQUIRED.
MOUNT PLEASANT WATERWORKS
TEMPORARY PROTECTION OF SERVICE LATERAL
CLEANOUT STACK AND MANHOLE FRAME AND COVER

PROTECTION OF CLEANOUT STACK IS SHOWN
PROTECTIVE FENCING AROUND MANHOLE FRAME AND COVER IS SIMILAR

METAL FENCE POST

ORANGE PROTECTIVE MESH
TO REMAIN IN PLACE UNTIL
CONSTRUCTION ACTIVITIES
ARE COMPLETE.

CONCRETE COLLAR
OVER CLEANOUT

3' MIN

12" MIN

SERVICE LATERAL

6" X 4"
SINGLE OR DOUBLE WYE

TEST PLUG TO BE REMOVED
WHEN PLUMBER MAKES
TIE-IN TO RESIDENCE
NOTE: IF ASPHALT IS LESS THAN 4" THICK, THE SURFACE COURSE SHALL BE MILLED AND REPLACED FOR 1/2 THE THICKNESS

MILL AND REPLACE 2" SURFACE A MINIMUM OF 2'-0" EITHER SIDE OF PAVEMENT CUT

EXISTING ASPHALT PAVEMENT

FOR SCDOT AND TOMP ROADS NEW 4" ASPHALT PAVEMENT PATCH WITH PRIME COAT (2" INTERMEDIATE COARSE AT 2" SURFACE COARSE)

SAW CUT ASPHALT

BASE COARSE

LOCATOR TAPE APPROX. 18" BELOW GRADE

PLACE A MINIMUM OF 3 FEET OF FLOWABLE FILL WITHIN 4" OF ASPHALT SURFACE.

6" OF WELL COMPACTED SUITABLE FILL

COMPACTED CRUSHED #57 GRANITE

DIA./MATERIAL AS INDICATED

EXTRA BEDDING WHERE DIRECTED AND APPROVED, INSTALLED AS A UNIT PRICE ITEM PER LINEAR FOOT

DEPTH SCHEDULE FOR HAUNCHING AND BEDDING

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<thead>
<tr>
<th>PIPE Ø</th>
<th>4&quot;-10&quot;</th>
<th>12&quot;-18&quot;</th>
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<tr>
<td>&quot;B&quot;</td>
<td>TO CENTERLINE OF PIPE</td>
<td>20&quot;</td>
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EMBEDMENT COMPACTION SHALL BE THE MINIMUM DENSITIES INDICATED IN TABLE 2 OF ASTM D2321-LR.
2" ASPHALT PATCH WITH PRIME COAT

EXISTING ASPHALT PAVEMENT

12" TYP.

SAW CUT ASPHALT

6", COMPACTED SABC MIN.

LOCATOR TAPE APPROX. 18" BELOW GRADE

6", COMPACTED SABC MIN.

SPECIFIED BACKFILL MATERIAL CAREFULLY COMPACTED IN 6" LIFTS AT 95% STANDARD PROCTOR AS SPECIFIED.

3'-0" MINIMUM

TOP COVER

SPRING LINE HAUNCHING

BEDDING

FOUNDATION (WHEN AUTHORIZED)

COMPACTED CRUSHED #57 GRANITE

DIA./MATERIAL AS INDICATED

EXTRA BEDDING WHERE DIRECTED AND APPROVED, INSTALLED AS A UNIT PRICE ITEM PER LINEAR FOOT

DEPTH SCHEDULE FOR HAUNCHING AND BEDDING

<table>
<thead>
<tr>
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</table>

EMBEDMENT COMPACTION SHALL BE THE MINIMUM DENSITIES INDICATED IN TABLE 2 OF ASTM D2321-L.R.
6" MOUND FOR SETTLEMENT

EXISTING GROUND

+6' FROM EOP

PAVEMENT

LOCATOR TAPE INSTALLED 12"
BELOW FINAL GRADE

SUITABLE BACKFILL
COMPACTED IN 6" LAYERS
TO 95% MODIFIED PROCTOR

COMPACTED CRUSHED #57 GRANITE

DIA./MATERIAL AS INDICATED

EXTRA BEDDING WHERE DIRECTED
AND APPROVED, INSTALLED AS A
UNIT PRICE ITEM PER LINEAR FOOT

DEPTH SCHEDULE
FOR HAUNCHING AND BEDDING

PIPE ø  4"-10"  12"-18"  24"  36"
"A"  6"  8"  10"  12"
"B"  TO CENTERLINE OF PIPE  20"  27"

EMBEDMENT COMPACTION SHALL BE THE MINIMUM DENSITIES
INDICATED IN TABLE 2 OF ASTM D2321-LR.

MOUNT PLEASANT WATERWORKS
MINIMUM ACCEPTABLE BEDDING FOR TYPICAL
WASTEWATER LINE

APPROVED BY:
MPW
FEB 2009

SCALE:
NTS

REVISED:
FEB 2009
MOUNT PLEASANT WATERWORKS
PRECAST CONCRETE AIR RELEASE VALVE BOX FOR
SEWER FORCE MAIN

APPROVED BY: MPW
DATE: FEB 2009
DRAWING NO: WW-11

SCALE: NTS
REVISIONS: FEB 2009
WASTEWATER LINE LESS THAN 15" - USE 4' ID MANHOLE
WASTEWATER LINE 16" - 27" - USE 5' ID MANHOLE
WASTEWATER LINE 30" - 45" - USE 6' ID MANHOLE
WASTEWATER LINE GREATER THAN 48" - USE 8' ID AT BOTTOM
SECTION OF MANHOLE & REDUCE TO 4' ID

SEE TYPICAL PRECAST MANHOLE JOINT DETAIL WW-15

SEE PLAN OF MANHOLE INVERT FOR ALIGNMENT OF STEPS

VARIES TO GRADE MAX. - TWO RINGS

SLOPE 1" PER FOOT

BENCH TO MEET CROWN OF PIPE

CRUSHED COMPACTED GRANITE #57 SIZE

WASTEWATER LINE LESS THAN 15" - USE 4' ID MANHOLE
WASTEWATER LINE 16" - 27" - USE 5' ID MANHOLE
WASTEWATER LINE 30" - 45" - USE 6' ID MANHOLE
WASTEWATER LINE GREATER THAN 48" - USE 8' ID AT BOTTOM SECTION OF MANHOLE & REDUCE TO 4' ID

VARIES TO GRADE MAX. = 12"

WATERPROOF ALL JOINTS
SEE TYPICAL PRECAST MANHOLE JOINT DETAIL WW-15

8" WALL THICKNESS

5" WALL THICKNESS
MANHOLE INVERT

MANHOLE TO BE COATED W/ RAVEN EPOXY 405 COATING (NEOPOXY 160 MILS THICKNESS), OR APPROVED EQUAL WHERE SPECIFIED.

SLOPE 1" PER FOOT

6" MIN:

12" MINIMUM

CRUSHED COMPACTED STONE (#57 GRANITE)

MOUNT PLEASANT WATERWORKS
TYPICAL SECTION ECCENTRIC CONE DROP MANHOLE

APPROVED BY: MPW
DATE: FEB 2009
DRAWING NO. WW-14
NON SHRINK GROUT

SEAL ALL EXTERNAL JOINTS (ABOVE & BELOW GRADE) WITH MIN 6" WIDE RUBBER SEAL (CRETEX OR INFI-SHIELD) TAPE

1/2"

4"

EXTERNAL

BUTYL RUBBER SEALANT (MIN. 2 PIECES OF SEALANT)

INSIDE

JOINT DETAIL

FRAME AND COVER

SEAL CASTING FRAME, GRADE RINGS & CONE WITH RUBBER BUTYL MASTIC SEAL (INFI-SHIELD OR UNI-BAND)

MOUNT PLEASANT WATERWORKS
TYPICAL PRECAST MANHOLE JOINT DETAIL

APPROVED BY: MPW
DATE: FEB 2009
REVISED: FEB 2009
DRAWN: MARK W. WIESE
SHEET: WW-15
SCALE: NTS

CLEAN WATER
MECHANICALLY CRUSHED COMPACTED GRANITE #57

MANHOLE STEPS ARE TO BE OVER THE PIPE OR OVER THE WIDEST PART OF BENCH

TYPICAL INTERSECTION

FLEXIBLE MANHOLE SLEEVE OR ENTRANCE JOINT (TYPICAL)

MINIMUM OF 90°
NOTES:

1. This detail depicts the typical acceptable method for connecting force mains to existing or new manholes on the gravity portion of the system. The last 20 feet (minimum) of sewer (increased 2 pipe sizes from the force main diameter) shall be sloped uphill unless otherwise approved by MPW. The reverse-grade slope shall be determined by the engineer with the intent of keeping the force main full during all operating conditions and slowing the wastewater prior to entering the manhole to reduce turbulence and to facilitate a smooth, uniform flow passing through the manhole and joining any other gravity flow.

For smaller force mains with little flow, it may be necessary to provide a positive slope to the manhole to make sure that solids will pass to the manhole and not settle out. In these cases, the engineer shall provide MPW with details of the design for review.

Other alternate designs for connecting force mains to receiving manholes may be submitted to MPW for review and consideration. Any such alternate shall minimize turbulence through the manhole and provide for a smooth, uniform flow path.

2. The height of the benching shall be increased from the specified crown of the pipe as necessary and/or as required by MPW to keep all wastewater in the invert channel as it passes through the manhole. The height of the bench/invert channel may have to be up to 2 times the largest pipe connecting to the manhole.
FRAME SCHEDULE

STANDARD HEIGHT: EJIW MODEL 104514, USF OR APPROVED EQUAL - SEE NOTE 1
MIN WEIGHT 205 POUNDS

LOW PROFILE: EJIW MODEL 104614, USF OR APPROVED EQUAL - SEE NOTE 1
MIN WEIGHT 115 POUNDS

SLAB-TYPE: EJIW MODEL 104614 TOP FLANGE, USF OR APPROVED EQUAL - SEE NOTES 1 AND 4

NOTES:
1. ALTERNATE FRAMES TO THOSE SHOWN MUST BE APPROVED BY MPW.
2. COVERS TO BE ASTM A48 CLASS 35 GRAY IRON WITH MINIMUM WEIGHTS SPECIFIED IN THE FRAME SCHEDULE.
3. NOMINAL DIMENSIONS SHOWN TYPICALLY MEAN PLUS OR MINUS 1/4" INCH UNLESS OTHERWISE APPROVED BY MPW.
4. FRAME MANUFACTURER TO PROVIDE FINAL DIMENSIONS AS A SHOP DRAWING PRIOR TO FABRICATION.
5. FRAMES FOR 30-INCH-DIAMETER COVERS MAY BE SPECIFIED FOR LARGE DIAMETER MANHOLES.
6. COAT FRAMES AND COVERS WITH TWO 8-MIL MIN DRY FILM THICKNESS (DFT) COATS OF COAL TAR EPOXY WHEN CORROSION PROTECTION OF MANHOLES IS SPECIFIED. SANDBLAST PRIOR TO APPLYING EPOXY.

MOUNT PLEASANT WATERWORKS
STANDARD MANHOLE FRAMES FOR COVERS

APPROVED BY: MPW
DATE: FEB 2009
DRAWING NO: WW-18

SCALE: NTS
REVISED: FEB 2009
NOTES:
1. ALTERNATE COVERS TO THOSE SHOWN MUST BE APPROVED BY MPW.
2. COVERS TO BE ASTM A48 CLASS 35 GRAY IRON WITH A MINIMUM WEIGHT OF 144 POUNDS.
3. NOMINAL DIMENSIONS SHOWN TYPICALLY MEAN PLUS OR MINUS 1/4" INCH UNLESS OTHERWISE APPROVED BY MPW.
4. THE PICKBAR IS THE STANDARD OPENING DEVICE, IN SOME CASES, MPW MAY SPECIFY THE NON-PENETRATING PICKHOLE.
5. ALL COVERS TO BE FURNISHED WITH GASKETS AS SHOWN. SIDE/WIPER GASKETS ARE NOT APPROVED.
6. 30-INCH-DIAMETER COVERS MAY BE SPECIFIED FOR LARGE DIAMETER MANHOLES.
7. COAT FRAMES AND COVERS WITH TWO 8-MIL MIN DRY FILM THICKNESS (DFT) COATS OF COAL TAR EPOXY WHEN CORROSION PROTECTION OF MANHOLES IS SPECIFIED. SANDBLAST PRIOR TO APPLYING EPOXY.

MOUNT PLEASANT WATERWORKS
STANDARD MANHOLE COVERS

APPROVED BY: MPW
DATE: FEB 2009
DRAWING NO.: WW-19
SCALE: NTS
REVISED: FEB 2009
Manhole cover and frame shall be called PAMREX MODEL CDPA60EH or approved equal. Cover and frame shall be manufactured from Ductile Iron.

Covers shall be hinged and incorporate a 90 degree blocking system to prevent accidental closure. Covers shall be one man operable using standard tools and shall be capable of withstanding a test load of 80,000 lbs.

Frames shall be circular, incorporate a seating ring and a fitted plug in the hinge housing, and be available in a 24 inch clear opening. The frame depth shall not exceed 4 inches, and the flange shall incorporate bedding slots, bolt holes, and lifting eyes.

All components shall be black coated.

Frame weight: 73 lbs.
Cover weight: 122 lbs.
Total weight: 195 lbs.

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<tr>
<th>DIMENSIONS (INCHES)</th>
<th>WEIGHT (lbs)</th>
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ECCENTRIC PLUG VALVE WITH GEAR-DRIVEN ACTUATOR
HAND-WHEEL OPERATED CONFORMING TO
AWWA STANDARD C505, TYP.

VENT
SEE DETAIL WW-28

4\% CLASS 150 FLANGE
HARD ROSEMONT 8105
FLANGED FLOW-TUBE.

TOP OF WETWELL

MOUNT PLEASANT WATERWORKS
PUMP STATION: PLAN VIEW OF ABOVE GROUND
YARD PIPING AND PLAN VIEW OF WETWELL

APPROVED BY:
MPW
DATE:
FEB 2000
DRAWING NO.
WW-22

SCALE:
NTS
REVISED:
FEB 2000

ALL ABOVE-GROUND PIPING
AND FITTINGS SHALL BE FLANGED
END DIP.

EXTERIOR COATING OF ALL ABOVE-GROUND
PIPING SHALL BE TWO COATS OF TENMEX
EPoxy/POLYURETHANE SERIES 66 OR 69.
HIGH BUILD EXPOXYLINE AT 5 MILS THICK.
COLOR SHALL BE DARK GREEN.
"PIG LAUNCHER" FITTING

BLIND FLANGE

FE WYE

FE X FE SPOOL SECTION FOR PRESSURE SENSOR ASSEMBLY

MIN 9"

CLASS 150 FLANGE RATED ROSEMOUNT 8705 FLANGED FLOW TUBE. SEE DETAIL WW-25

GRINNELL PIPE STANCHION FIG 259

ALL ABOVE-GROUND PIPING AND FITTINGS SHALL BE FLANGED END DIP.

MOUNT PLEASANT WATERWORKS
SECTION A: ABOVE GROUND YARD PIPING

[Signatures and dates]
S.S. AIR RELEASE VALVE
GOLDEN-ANDERSON
FIGURE 925 (LONG BODY)

BALL VALVE (T-316 SS)

PRESSURE
GAUGE

GRINNELL PIPE
STANCHION FIG 259

PLUMB AIR RELEASE
DISCHARGE TO
WET WELL WITH
SCH. 80 PVC

LINK SEAL OR APPROVED
EQUAL ALL SLAB PENETRATIONS

MALE QUICK CONNECTION
WITH AN ALUMINUM DUST COVER

FLYGT BALL CHECK
VALVE OR APPROVED
EQUAL

36"

4" D.I.P. VENT

WET WELL TOP SLAB

ALL ABOVE-GROUND PIPING
AND FITTINGS SHALL BE FLANGED
END DIP.

MOUNT PLEASANT WATERWORKS
SECTION B: ABOVE GROUND YARD PIPING

APPROVED BY: MPW
DATE: FEB 2009
DRAWING NO. WW-24

SCALE: NTS
REVISED: FEB 2009
ROSEMOUNT 8732E TRANSMITTER

¾" THICK ANSI TYPE 316 SS PLATE, TYP.

MIN. 3"

ROSEMOUNT 8705 FLOW TUBE 150 FLANGE RATING

FORCE MAIN DIAMETER AS INDICATED ON STATION PLANVIEW

FLOW

SET TRANSMITTER TO READ FROM SIDE TOWARD CONTROL CABINET

FABRICATED TO FIT AWWA STANDARD CLASS 53 DIP FLANGE FOR APPLICABLE DIA. PIPE AND BOLT PATTERN

MOUNT PLEASANT WATERWORKS
FLOW TUBE AND TRANSMITTER SHIELD DETAIL

APPROVED BY: MPW
DATE: FEB 2009
DRAWING NO.: WW-25

SCALE: NTS
REVISED: FEB 2009
2-4" D.I.P. SHORT RADIUS 90° BENDS

4" D.I.P.

S.S. SCREEN & FLANGE

4-5/8" 316 S.S. BOLTS, FLANGE TO FLANGE THROUGH CONCRETE
6" STANDARD ALUMINUM CHANNEL

THERE SHALL BE NO PENETRATIONS IN THE TOP OF AN PANEL BOX
ALL ENCLOSURES SHALL BE NEMA AT T-316 STAINLESS STEEL
OPTIONAL: PROVIDE MAIN AND EMERGENCY CIRCUIT BREAKER MECHANICALLY INTERLOCKED IN MAIN CONTROL PANEL.

BOTTOM ELEVATION OF CONTROL PANEL SHALL BE 1.25 FT. ABOVE 100 YEAR FLOOD ELEVATION.

EYES EXG GAS TIGHT FITTINGS
PVC JUNCTION BOXES CARLON CAT #887-R OR EQUAL INSTALL AS SHOWN
PVC PIPE MINIMUM 1 1/2" SCH 40

SECURITY FLOOD LIGHT

GENERATOR PLUG (MALE)
240 VOLTS STATIONS: HUBBELL NO. 4100894W WITH BACK BOX
NO. 901011W OR 901022W
480VOLT STATIONS CROUSE HINDS RECEPTACLE NO. AREA 20425 INCLUDES AJ BACK BOX AND ANGLE ADAPTER

FRONT VIEW

REAR VIEW

ALUMINUM 6" STANDARD CHANNEL, ALL BOLTS, NUTS, WASHERS, AND MISC. HARDWARE SHALL BE T-316 STAINLESS STEEL.
ALUMINUM CHANNEL EMBEDDED IN CONCRETE SHALL BE COATED WITH APPROVED CORROSION-PROOF COATING.
[SUBMIT COATING FOR APPROVAL]

GENERAL NOTES:

1. ALL HINGES GUIDE HOLDERS, CHAINS HOLDERS, ALL NUTS, BOLTS, WASHERS, GUIDE RAILS AND OTHER FASTENERS SHALL BE T-316 STAINLESS STEEL.

2. ALL WET WELL HARDWARE SHALL BE MOUNTED SUCH THAT ANY COMPONENT CAN BE REMOVED.

3. PUMPS AND MOTORS SHALL HAVE A STAINLESS STEEL CHAIN FOR LIFTING. THE LENGTH SHALL REACH THE TOP OF THE STATION PLUS AN ADDITIONAL SIX FEET.

4. WET WELL TO HAVE SEPARATE CONDUIT FOR FLOAT CABLES

5. ALL WORK AND MATERIALS SHALL BE ACCEPTABLE TO MOUNT PLEASANT WATERWORKS.

6. TRANSFER SWITCH DOES NOT HAVE TO BE PROVIDED IF WALKING-BEAM BREAKER ASSEMBLY IS INSTALLED IN CONTROL PANEL ENCLOSURE.

7. A SERVICE DISCONNECT (NON-FUSED) SHALL BE PROVIDED BETWEEN ELECTRICAL UTILITY METER AND MPW EQUIPMENT.

8. DESIGN OF CONTROL PANEL RACK TO BE SUBMITTED TO THE ENGINEER & MPW FOR APPROVAL.

9. THESE DRAWINGS ARE GENERIC. ENGINEER SHALL SUBMIT RACK DESIGN DRAWINGS FOR PROPOSED EQUIPMENT INCLUDING WIND-LOAD CALCULATIONS IN COMPLIANCE WITH APPLICABLE BUILDING CODES.
NOTE: NO PENETRATIONS IN THE TOP OF ANY CONTROL PANEL

GENERATOR PLUG (MALE)
240 VOLT STATIONS:
HUBBELL NO. 4100B9W
WITH BACK BOX NO. BB1001W
OR BB1002W

480 VOLT STATIONS
CROUSE HINDS RECEPTACLE
NO. AREA 20425
INCLUDES AJ BACK BOX
AND ANGLE ADAPTER

NOTE:
1) TRANSFER SWITCH DOES NOT HAVE TO BE PROVIDED IF WALKING BEAM BREAKER ASSEMBLY IS INSTALLED IN THE CONTROL PANEL. IF WALKING BEAM BREAKER IS INSTALLED, GENERATOR PLUG SHALL BE MOUNTED IN A CONVENIENT LOCATION ON THE BOTTOM OR SIDE OF THE MAIN CONTROL PANEL. PROVIDE DETAIL OF PROPOSED ARRANGEMENT WITH SUBMITTAL PACKAGE FOR APPROVAL BY MPW ELECTRICAL DEPT.

2) A SERVICE DISCONNECT SHALL ALWAYS BE PROVIDED TO DISCONNECT THE ELECTRICAL UTILITY (METER) FROM THE MPW EQUIPMENT. THE DISCONNECT SHALL BE LOCATED JUST AFTER THE UTILITY METER (NO EXCEPTIONS)
NOTE: ENCLOSURE SHALL BE NEMA 4X 316SS/3PT, APPROXIMATELY 48"H x 36"W x 12"D.
NOTE: ENCLOSURE SHALL BE NEMA 4X 316SS/3PT, APPROXIMATELY 48"H x 36"W x 12"D.
NOTE: ENCLOSURE SHALL BE NEMA 4X 316SS/3PT, APPROXIMATELY 24"H X 24"W X 12"D.