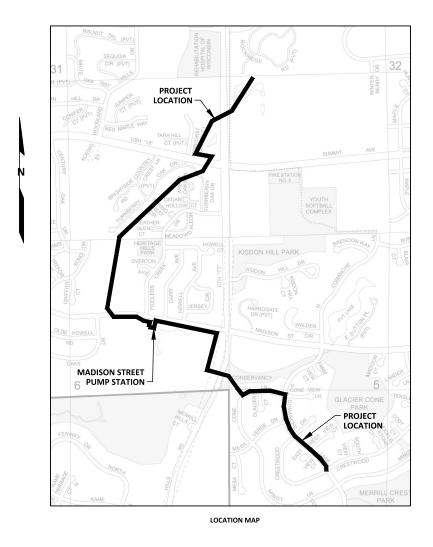
WEST SIDE PUMP STATION CONSOLIDATION

WAUKESHA, WISCONSIN

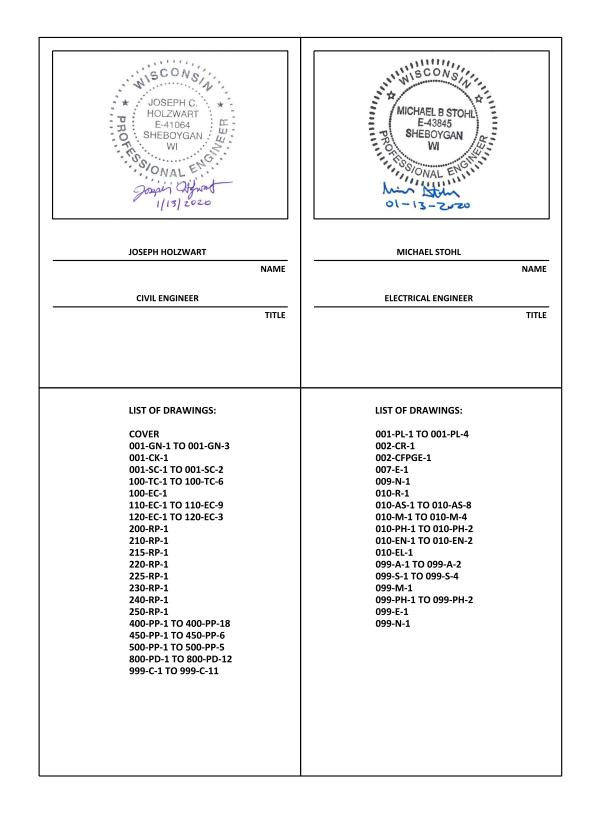




PREPARED BY:



	CITY OF	ON			N S I S				
I I "	APPROVED: JCH DATE: 01/13/:		FEOT SCALE.		1 IN: 2000 FT 1/14/2020 9:47 AM	000-COVE	R 2019 - WSPSC	001]



002

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

WEST SIDE PUMP STATION CONSOLIDATION SIGNATURE SHEET

__ DATE: __01/13/20_ APPROVED: _

DRAWN BY: BEG CHECKED BY: SJK

PLOT SCALE: N/A PLOT DATE: 1/14/2020 9:48 AM

001-GN-1 PROJECT NO: 2019 - WSPSC

GENERAL NOTES:

- 1. SEE 010-R DRAWINGS FOR MADISON STREET PUMP STATION REMOVAL INFORMATION.
- 2. SEE SPECIAL PROVISIONS FOR A LIST OF ITEMS TO BE SALVAGED BY THE OWNER AND CONTRACTOR.
- 3. SEE 200-RP DRAWINGS FOR ABANDONMENT DETAILS OUTSIDE OF MADISON STREET PUMP STATION LOCATION.
- 4. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY EARTH DISTURBING ACTIVITIES.

PLAN NOTES:

- 1. REMOVE EXISTING 8" FORCE MAIN.
- 2. DEMOLISH EXISTING VALVE VAULT. SEE 010-R-1 DRAWING FOR INFORMATION.
- 3. PROTECT EXISTING ANTENNA POLE.
- 4. REMOVE AND SALVAGE EXISTING SIREN POLE.
- 5. REMOVE CONTROL PANEL. SALVAGE RADIO FOR REINSTALLATION IN NEW PLC PANEL.

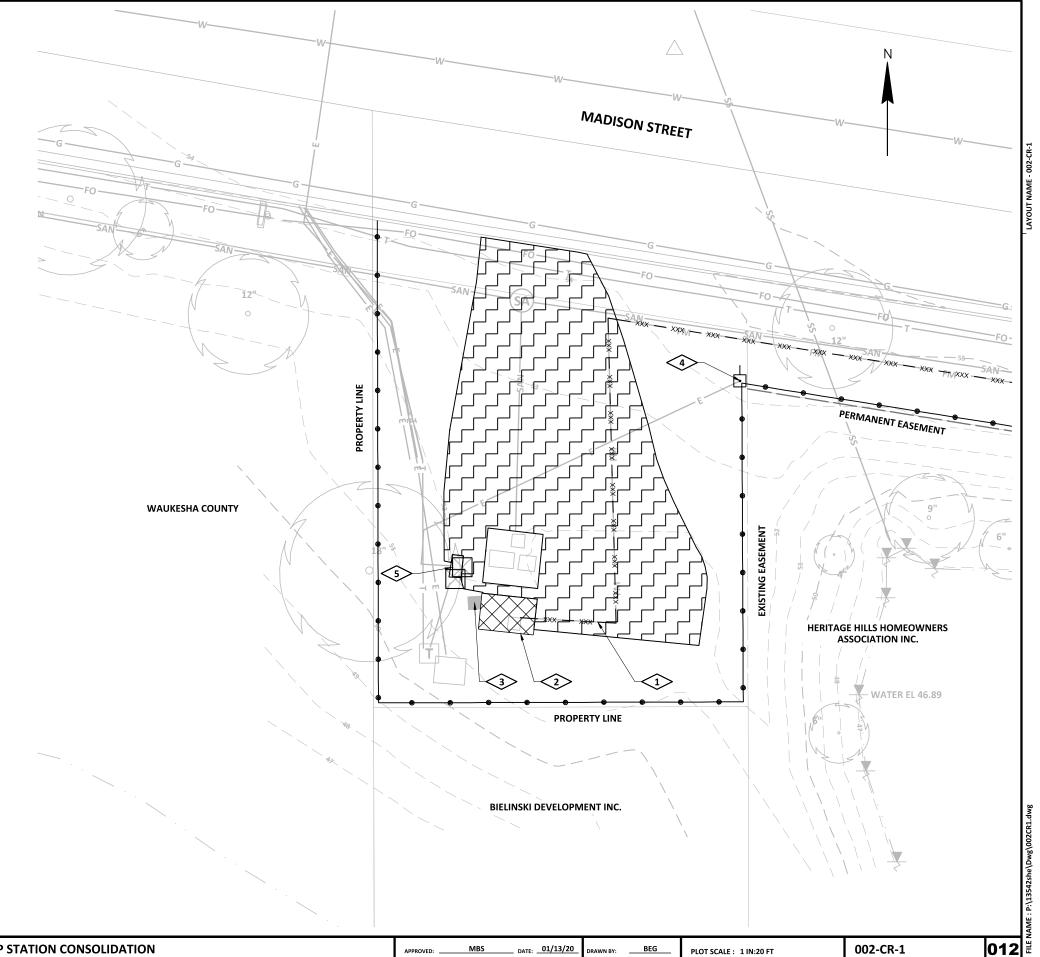
REMOVAL LEGEND

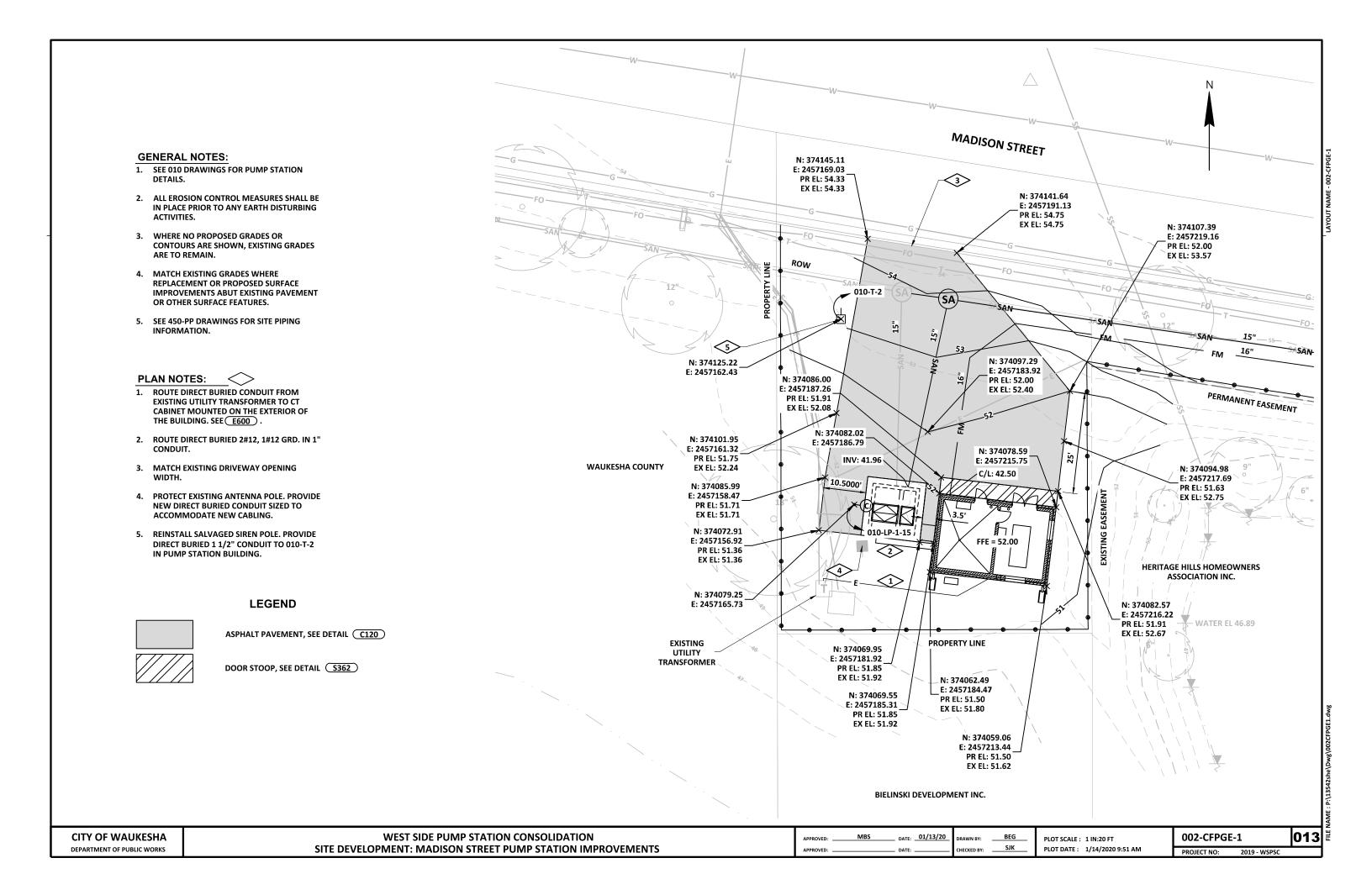
REMOVE EXISTING ASPHALT PAVEMENT AND BASE

STRUCTURE DEMOLITION

REMOVE EXISTING PIPE

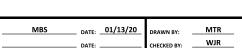
ABANDON EXISTING PIPE











REMOVE PUMP

NTS

BASE ELEVATION 21.00

SECTION

APPROVED:

FLYCT MODEL
"FLEC-7 AOSH" 36"x36" (CLEAR OPENING)
ALUMINUM HATCH
W/ "SAFETY-HATCH" (TM) SYSTEM

8" VENT W/ SCREEN

- REMOVE TOP OF STRUCTURE

REMOVE STRUCTURE IN ITS ENTIRETY

REMOVE STRUCTURE IN ITS ENTIRETY

REMOVE WALL AND PLATFORM -

REMOVE CONC FILLETS, TYP

6'x10' VALVE PIT

WET WELL ROOF DETAIL

FORCE MAIN EXIT ELEVATION 42.38

STOP PLANK

GRAVITY SEWER
DISCHARGE 31.00

B B

SEE SHEET #33 FOR CONTROL PANEL & DETAILS

REMOVE VENTS

PATCH OPENING, SEE S371 TYP

- REMOVE 4" DRAIN PIPING

- REMOVE 6" DISCHARGE PIPING

REMOVE PUMPS

PLOT SCALE: N/A PLOT DATE: 1/14/2020 9:51 AM

010-R-1 PROJECT NO:



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MADISON

WEST SIDE PUMP STATION CONSOLIDATION **REMOVALS: MADISON STREET PUMP STATION PLAN**

REMOVE PUMP

- REMOVE 8" DISCHARGE PIPING.

REMOVE DISCHARGE PIPING AND PATCH OPENING, SEE \$371, TYP

REMOVE WALL AND PLATFORM -

REMOVE TOP OF STRUCTURE -

REMOVE WALL AND PLATFORM -

10'x10' WET WELL

REMOVE CONC FILLETS

FORCE MAIN EXIT
ELEVATION 42,38

SNAP HOOKS (EACH SIDE)

2" STAINLESS STEE

BASE ELEVATION 21.00

NTS

SECTION

SEE DRAWING 002-CR-1 FOR EXTENTS

REMOVE PUMPS, TYP-

SECTION 'B-B'

24" DIA. WALL OPENING W/STOP PLANK

⋖

BOLTS, AND OTHER EMBEDMENTS 1" BEYOND FINISHED SURFACE AND PATCH SURFACE TO MATCH ADJACENT FINISHED SURFACE. WHERE EQUIPMENT IS INDICATED TO BE REMOVED, REMOVE ALL ASSOCIATED POWER AND CONTROL WIRING AND CONDUIT BACK TO SOURCE. REMOVE JUNCTION BOXES AND PULL BOXES ASSOCIATED WITH THE REMOVE CONDUITS. WHERE CONDUIT SYSTEM CONTAINS **CIRCUITS TO OTHER EQUIPMENT THAT** REMAINS, RETAIN THESE CIRCUITS AND RELOCATE EXISTING CONDUIT AND EXTEND **EXISTING CIRCUITS AS REQUIRED FOR THE** INSTALLATION OF NEW EQUIPMENT. REMOVE TOP OF STRUCTURE REMOVE DISCHARGE PIPING

EL 52.00

EL 50.00

GENERAL NOTES:

AND/OR FABRICATION.

FINISHED SURFACE.

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, DIMENSIONS, AND

ELEVATIONS PRIOR TO CONSTRUCTION

2. FULL TONE COMPONENTS TO BE REMOVED. SAWCUT AND REMOVE CONCRETE TO THE LIMITS NOTED. IN EXPOSED AREAS NOT

COVERED BY NEW CONSTRUCTION, REMOVE REINFORCEMENT AND

EMBEDMENTS 1" BEYOND FINISHED SURFACE AND PATCH SURFACE WITH PATCHING MORTAR TO MATCH ADJACENT

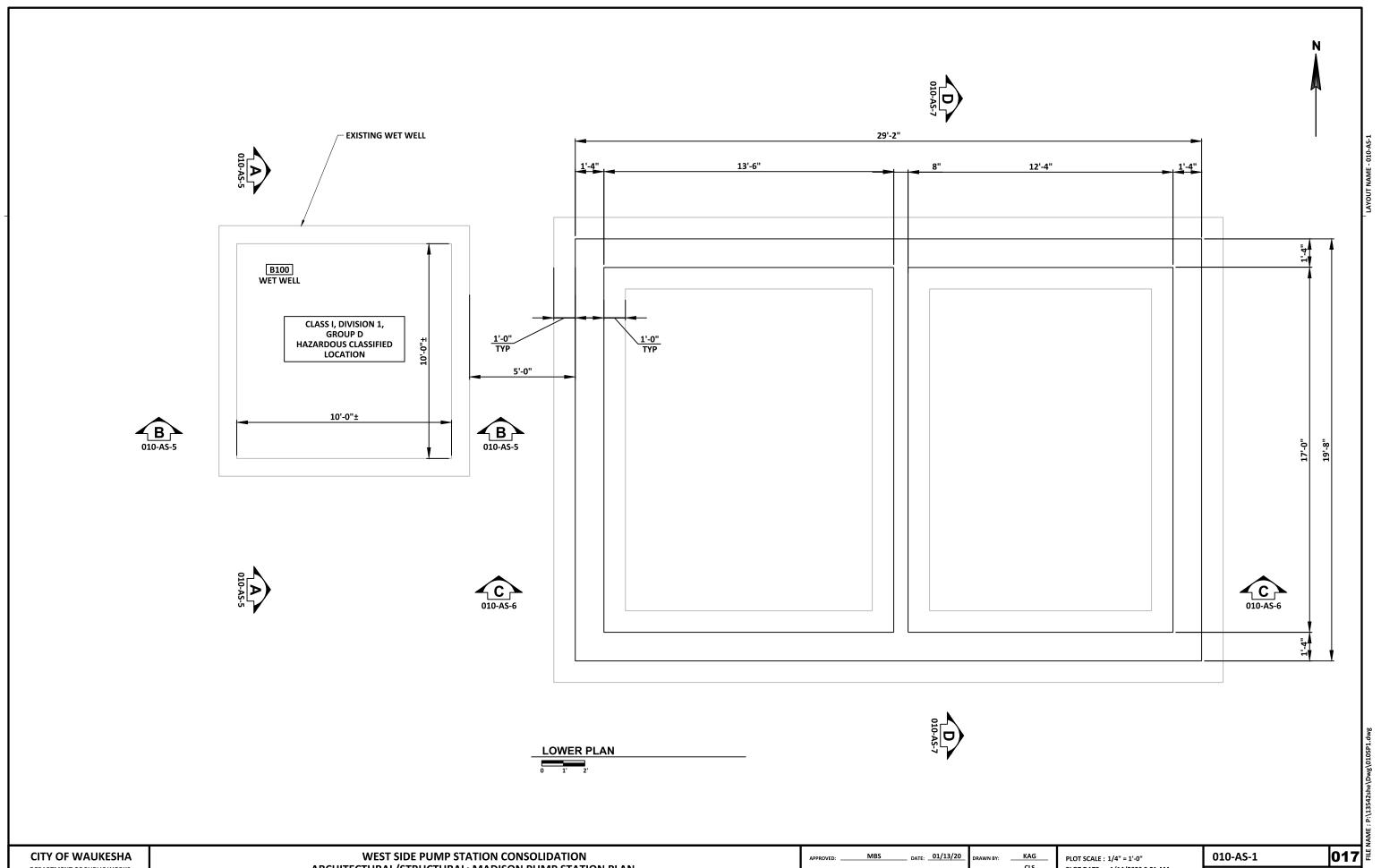
REMOVE CONCRETE ANCHORS, ANCHOR **BOLTS, AND OTHER EMBEDMENTS FOR** MATERIALS AND EQUIPMENT BEING REMOVED. IN EXPOSED AREAS NOT

COVERED BY NEW CONSTRUCTION, **REMOVE CONCRETE ANCHORS, ANCHOR**

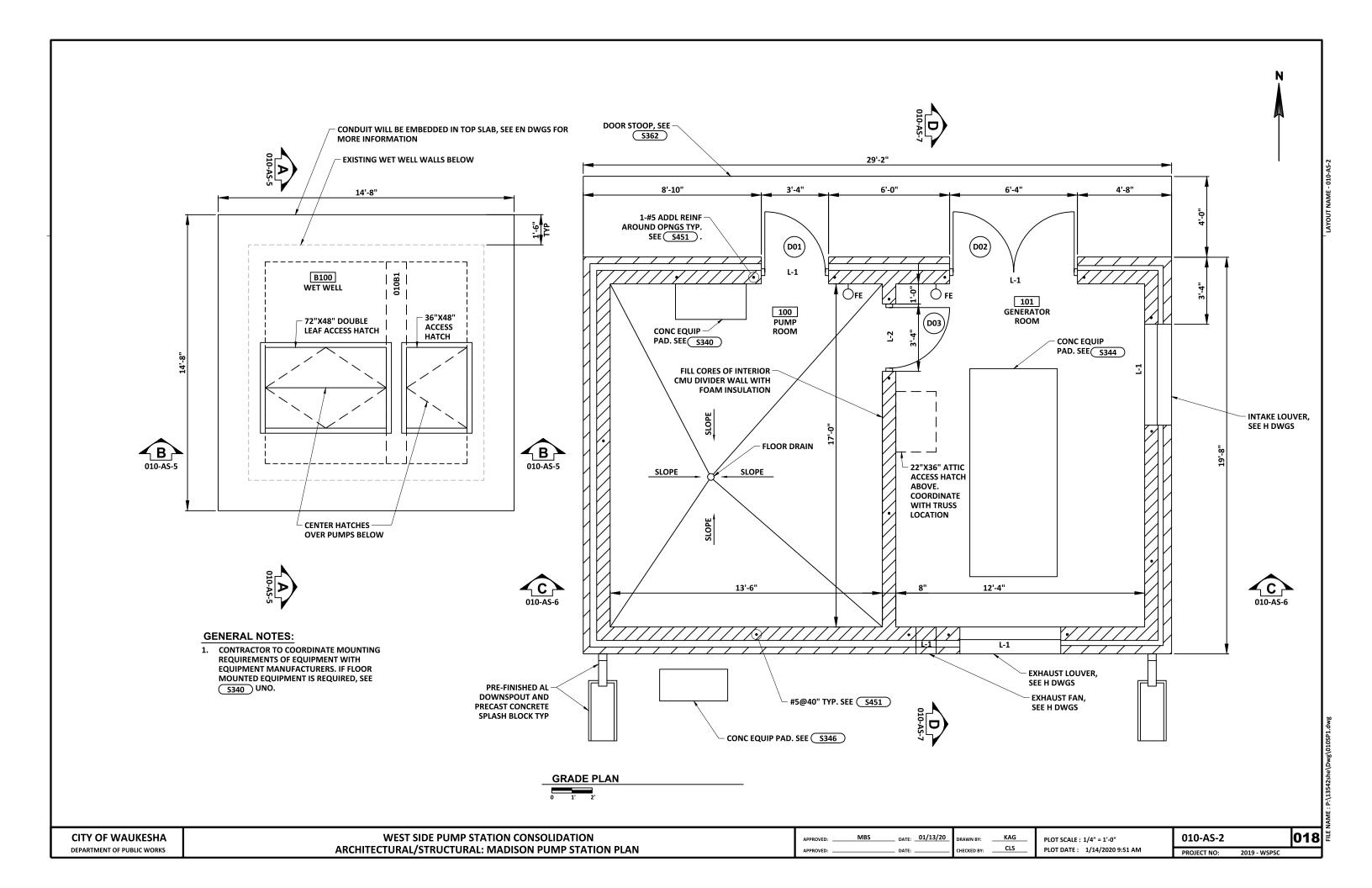
REMOVE ALL SUPPORTS ASSOCIATED WITH REMOVED PIPING, DUCTWORK, CONDUIT, AND EQUIPMENT. REMOVE RODS AND **FASTENERS FROM CEILINGS, FLOORS, AND** WALLS WITH CARE. WHERE SURFACE HAS BEEN MARRED, CHIPPED, SPAWLED, ETC. AS A RESULT OF REMOVAL, PATCH AND PAINT TO MATCH ADJACENT FINISHED SURFACE. REMOVE EXISTING CONCRETE PADS OF ANY **EQUIPMENT BEING REMOVED. REMOVE** CONCRETE REINFORCEMENT A MINIMUM OF 1" BEYOND FINISHED SURFACE AT ANY LOCATION WHERE NEW CONCRETE PAD WILL NOT COVER ROUGH SURFACE OF REMOVED PAD. PATCH BACK TO FINISHED SURFACE WITH PATCHING MORTAR.

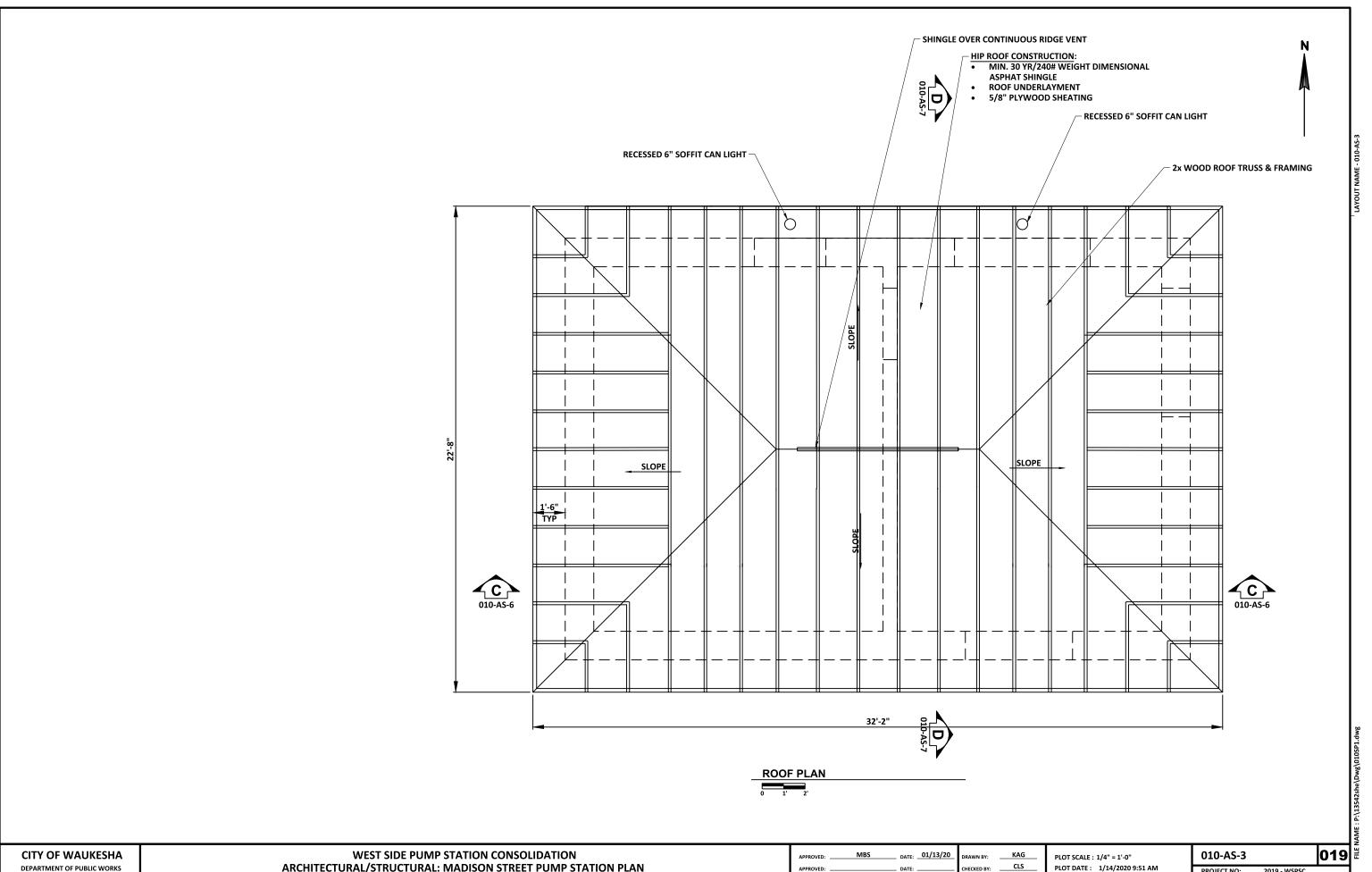
OTHERWISE. ROOFING SYSTEM SHALL BE PATCHED TO PREVENT ANY LEAKING AT THE

OPENING.

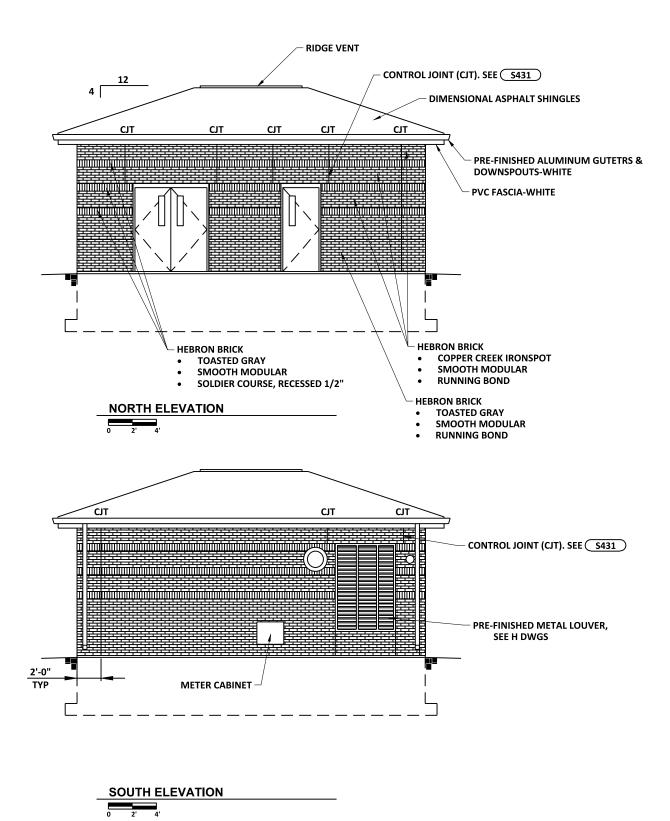


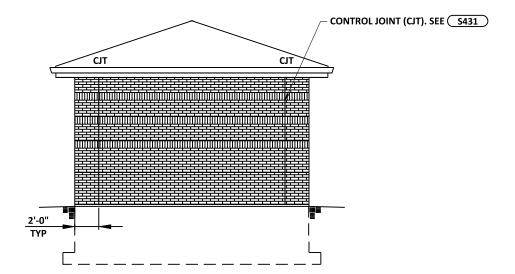
DRAWN BY: KAG
CHECKED BY: CLS PLOT DATE: 1/14/2020 9:51 AM PROJECT NO: 2019 - WSPSC

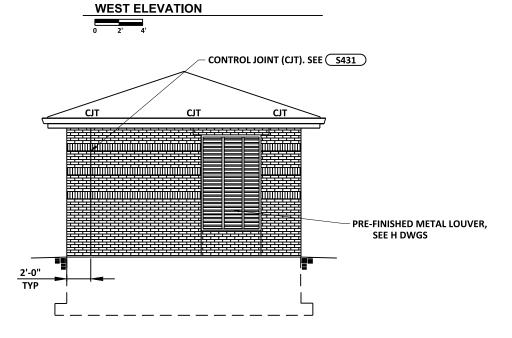




PROJECT NO: 2019 - WSPSC







EAST ELEVATION

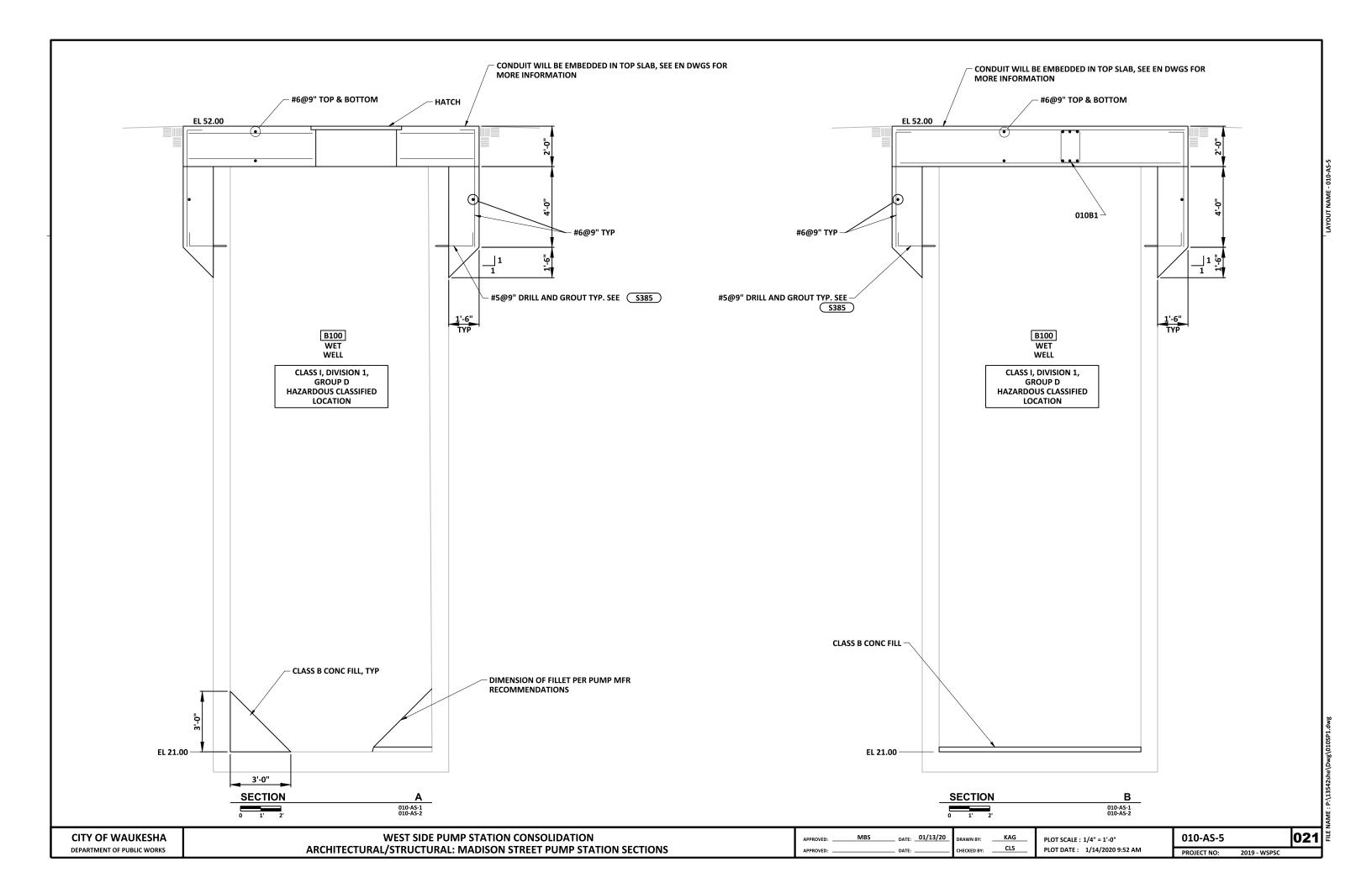
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

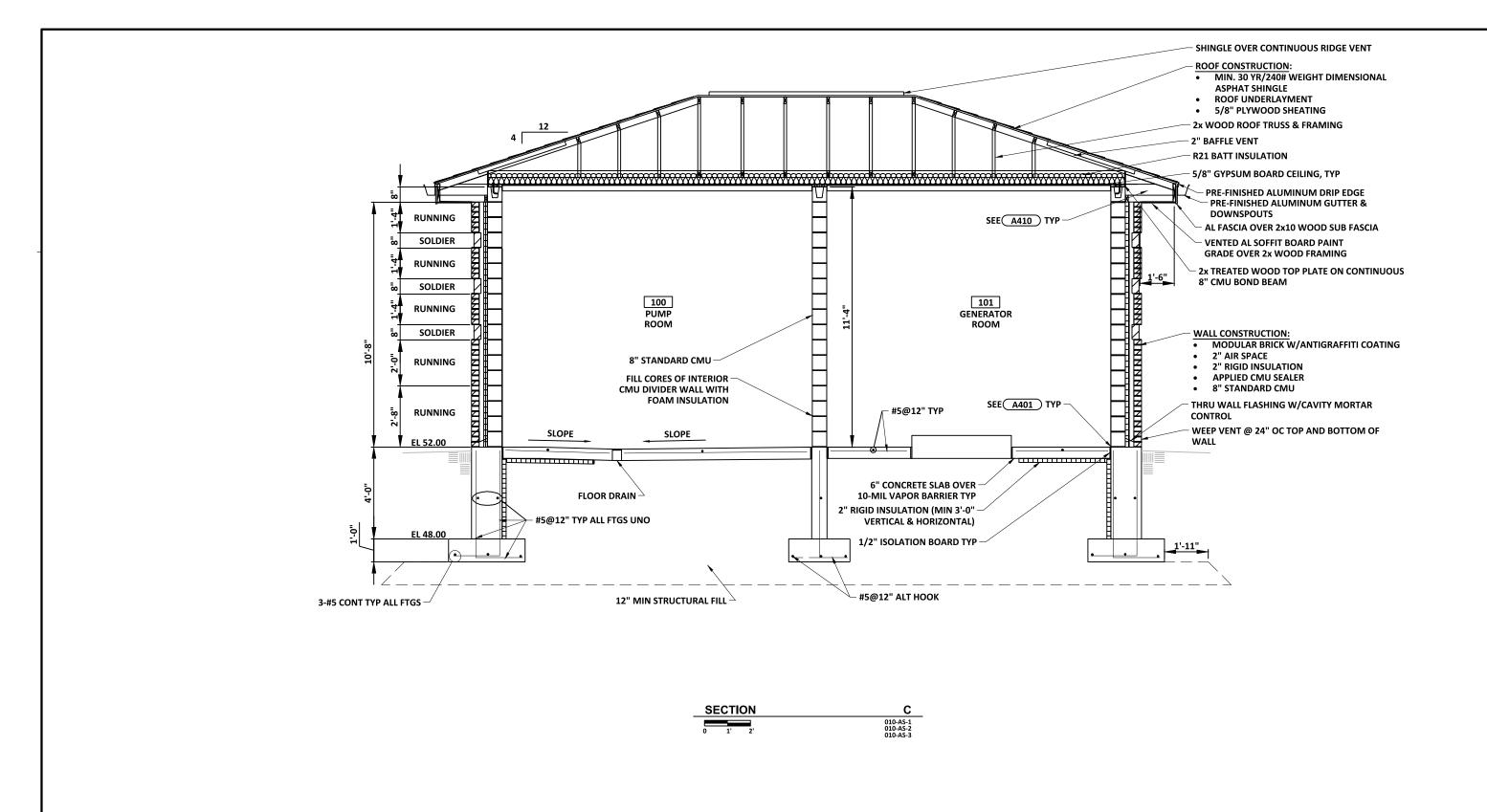
WEST SIDE PUMP STATION CONSOLIDATION ARCHITECTURAL/STRUCTURAL: MADISON STREET PUMP STATION ELEVATIONS DATE: 01/13/20

CHECKED BY: CLS

PLOT SCALE : 1/8" = 1'-0" PLOT DATE: 1/14/2020 9:51 AM

010-AS-4 PROJECT NO: 2019 - WSPSC





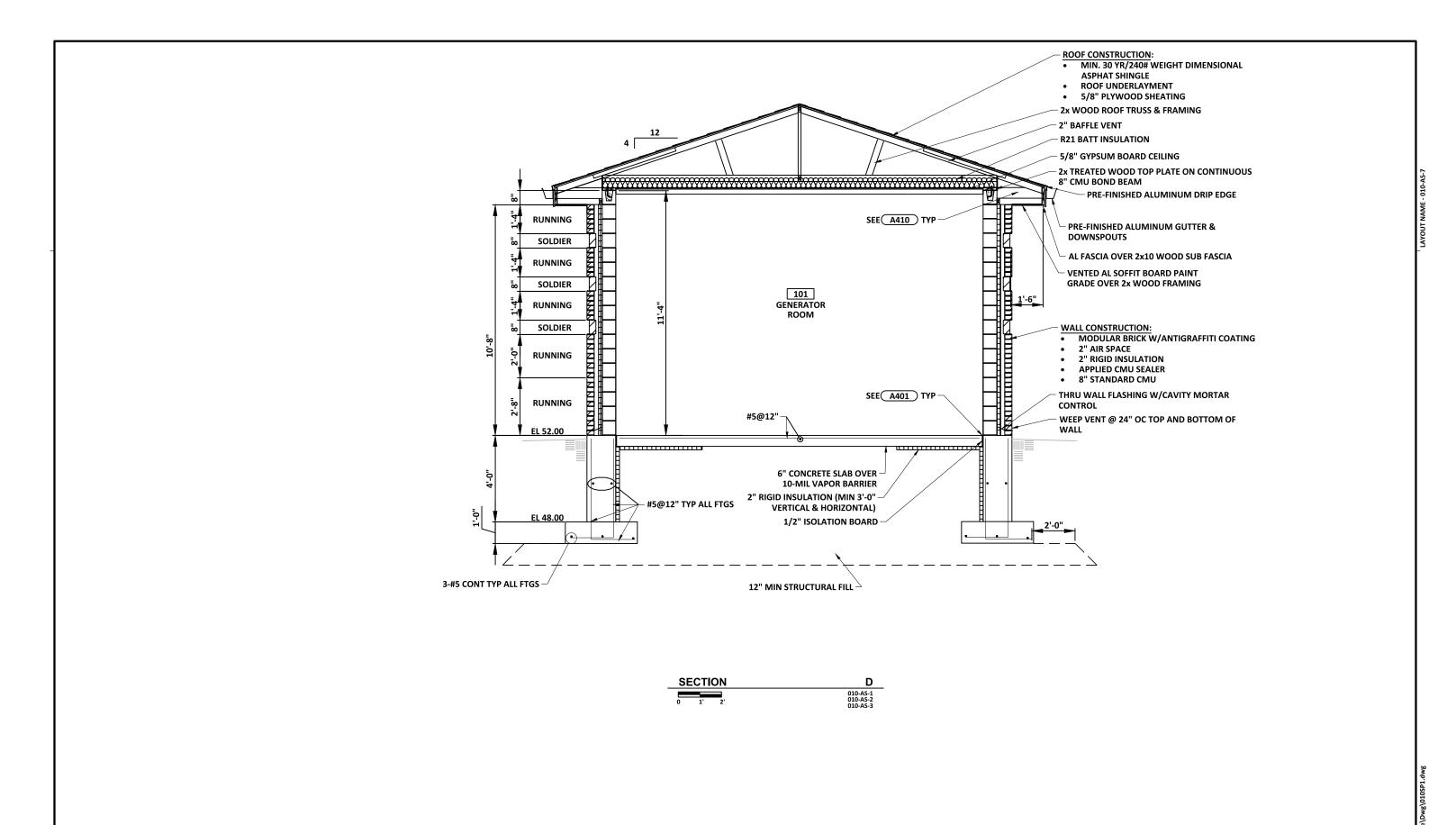
CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

WEST SIDE PUMP STATION CONSOLIDATION ARCHITECTURAL/STRUCTURAL: MADISON STREET PUMP SSTATION SECTION DATE: 01/13/20 DRAWN BY:

CLS CHECKED BY:

PLOT SCALE : 1/4" = 1'-0" PLOT DATE: 1/14/2020 9:52 AM

010-AS-6 PROJECT NO:



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

WEST SIDE PUMP STATION CONSOLIDATION ARCHITECTURAL/STRUCTURAL: MADISON STREET PUMP STATION SECTION _ DATE: _01/13/20_

DRAWN BY: CHECKED BY: CLS

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

010-AS-7

PLOT DATE: 1/14/2020 9:52 AM PROJECT NO: 2019 - WSPSC REFERENCE IBC SECTION 306 NONSEPARATED OCCUPANCY: USE MOST RESTRICTIVE (TABLE 503): LOW HAZARD FACTORY INDUSTRIAL F-2 TYPE OF CONSTRUCTION: VB **ALLOWABLE BUILDING AREA: 13,000 SF TOTAL ACTUAL BUILDING AREA: 574 SF**

MEZZANINES: NOT APPLICABLE INCIDENTAL USES: NOT APPLICABLE

REFERENCE TABLE 503 TOTAL ALLOWABLE BUILDING HEIGHT: 40 FT. **ACTUAL BUILDING HEIGHT: 13'-4" TOTAL ALLOWABLE STORIES: 3 ACTUAL NO. OF STORIES: 1**

REFERENCE TABLE 1004.1.2 AREA PER OCCUPANT: 100 SF PER OCCUPANT TOTAL BUILDING OCCUPANT LOAD: 574 SF/100 SF PER OCCUPANT = 6 OCCUPANTS

REFERENCE TABLE 1005 TOTAL REQUIRED WIDTH OF EGRESS COMPONENTS: 6 OCCUPANTS X 0.2 = 1.2 IN. **ACTUAL WIDTH OF EGRESS COMPONENT: 36 IN.**

FIRE RESISTIVE REQUIREMENTS TABLE 601 **EXTERIOR BEARING WALLS: 0 HR.** INTERIOR BEARING WALLS: 0 HR. EXTERIOR NON-BEARING WALLS: TABLE 602 STRUCTURAL FRAMES: 0 HR. PARTITIONS: 0 HR. SHAFT ENCLOSURES: 0 HR. (NOT APPLICABLE) FLOOR: 0 HR. ROOF: 0 HR.

FIRE SEPARATION FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (TABLE 602) **OCCUPANCY GROUP F-2** X < 5 - 1 HR. 5 < X < 10 - 1 HR. 10 < X < 30 - 0 HR X > 30 - 0 HR.

MAXIMUM AREA OF EXTERIOR WALL OPENINGS TABLE 705.8 **EXTERIOR WALL OPENINGS: (30 OR GREATER) TABLE 705.8 UNPROTECTED NONSPRINKLERED** NO LIMIT - MAXIMUM ALLOWABLE AREA OF WALL OPENINGS

EXTERIOR WALL OPENINGS: (25 TO LESS THAN 30 FT.) TABLE 705.8 UNPROTECTED NONSPRIKLERED 70% - MAXIMUM ALLOWABLE AREA OF EXTERIOR WALL OPENINGS

EXTERIOR WALL OPENINGS: (20 TO LESS THAN 25 FT.) TABLE 705.8 UNPROTECTED NONSPRIKLERED 45% - MAXIMUM ALLOWABLE AREA OF EXTERIOR WALL OPENINGS

COMMON PATH OF EGRESS: 75 FT. WITHOUT SPRINKLER SYSTEM & OCCUPANT LOAD 30 OR LESS (TABLE 1014.3) **EXIT ACCESS TRAVEL DISTANCE: 300 FT. WITHOUT SPRINKLER SYSTEM (TABLE 1016.2)**

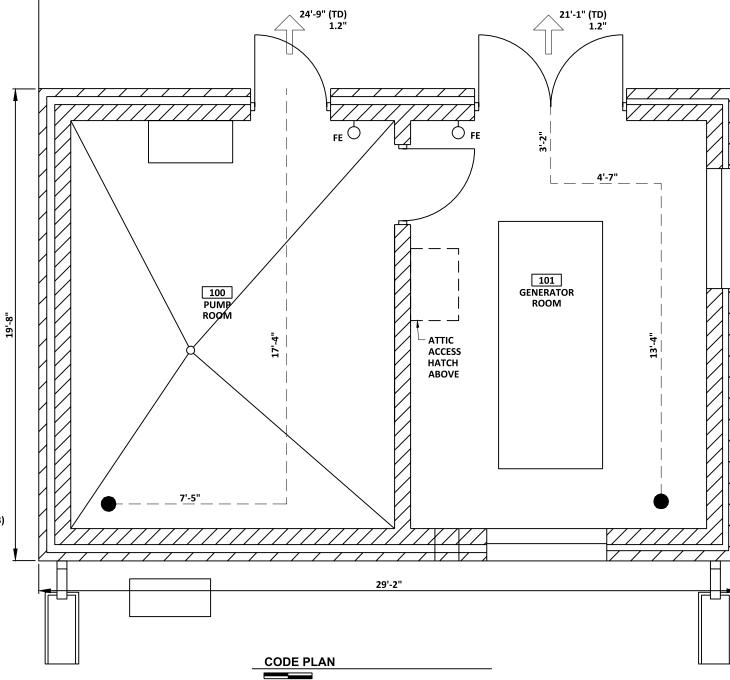
SPACES WITH 1 EXIT PERMITTED: GROUP F-2, MAXIMUM 49 OCCUPANTS (TABLE 1015.1) STORIES WITH 1 EXIT PERMITTED (TABLE 1021.2(2)): **GROUP F, MAXIMUM 49 OCCUPANTS & 75 FT. TRAVEL DISTANCE**

LEGEND EXIT ACCESS TRAVEL DISTANCE XXX'-X" **EXIT LOCATION** XX NO. OF OCCUPANTS USING EXIT

REQUIRED WIDTH OF EGRESS COMPONENTS

хх"



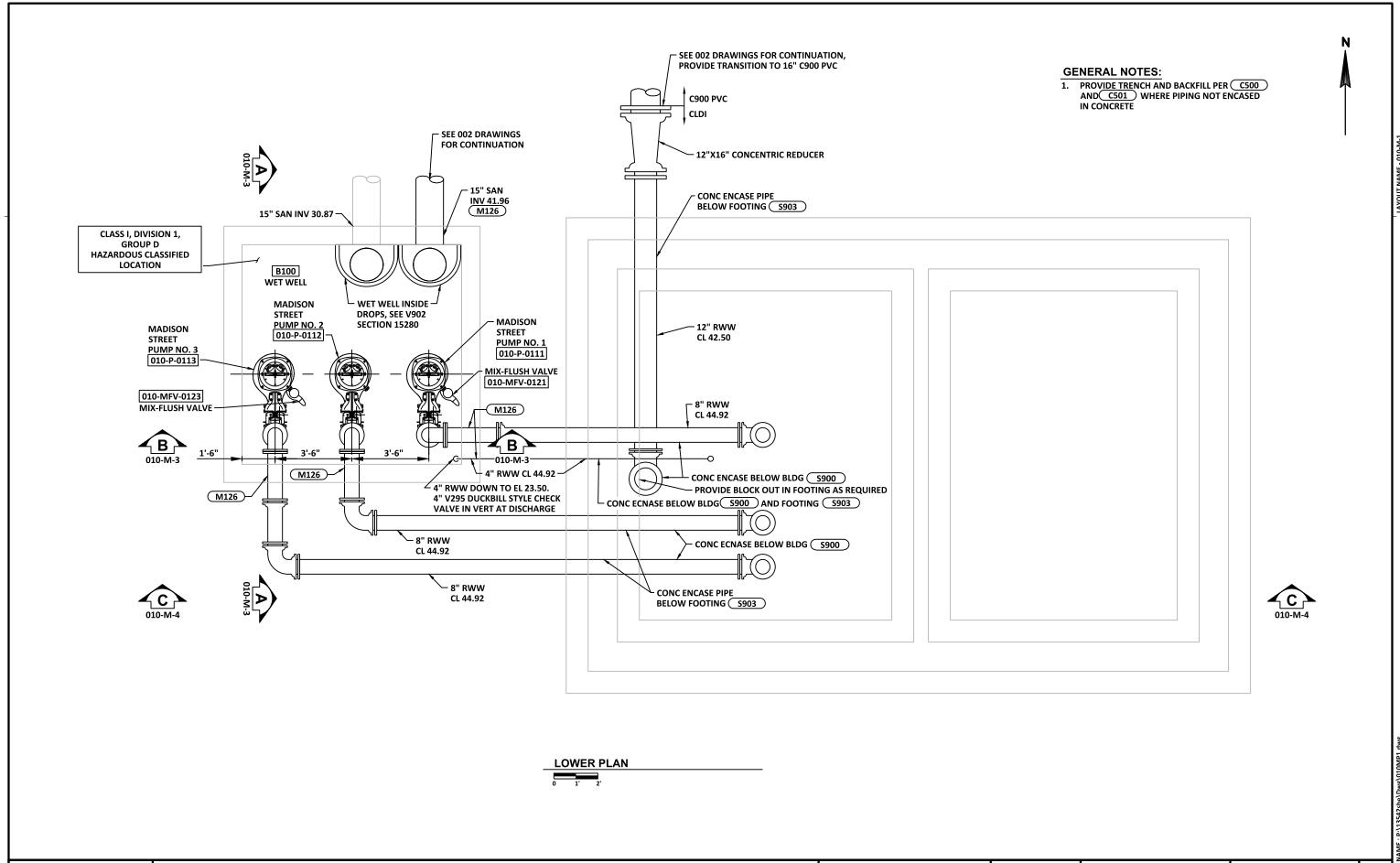


CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

WEST SIDE PUMP STATION CONSOLIDATION ARCHITECTURAL/STRUCTURAL: MADISON STREET PUMP STATION PLAN DATE: 01/13/20 DRAWN BY: CHECKED BY:

PLOT SCALE : 1/4" = 1'-0" CLS PLOT DATE: 1/14/2020 9:52 AM

010-AS-8 PROJECT NO: 2019 - WSPSC



CITY OF WAUKESHA

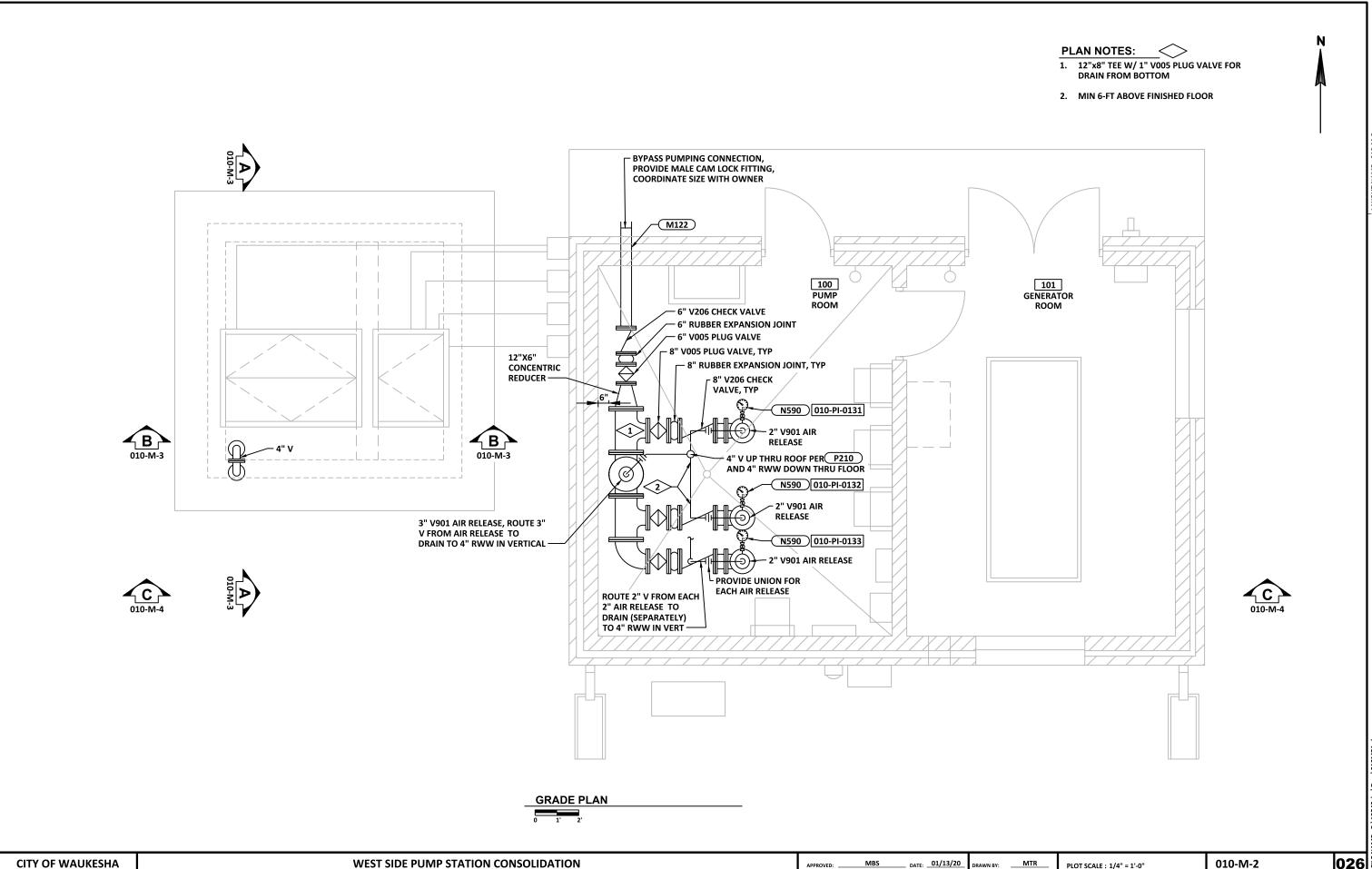
DEPARTMENT OF PUBLIC WORKS

WEST SIDE PUMP STATION CONSOLIDATION PROCESS-MECHANICAL: MADISON STREET PUMP STATION PLAN DATE: 01/13/20 DRAWN BY:

MTR PLOT SCALE : 1/4" = 1'-0" WJR PLOT DATE: 1/14/2020 9:52 AM

010-M-1 PROJECT NO:

2019 - WSPSC



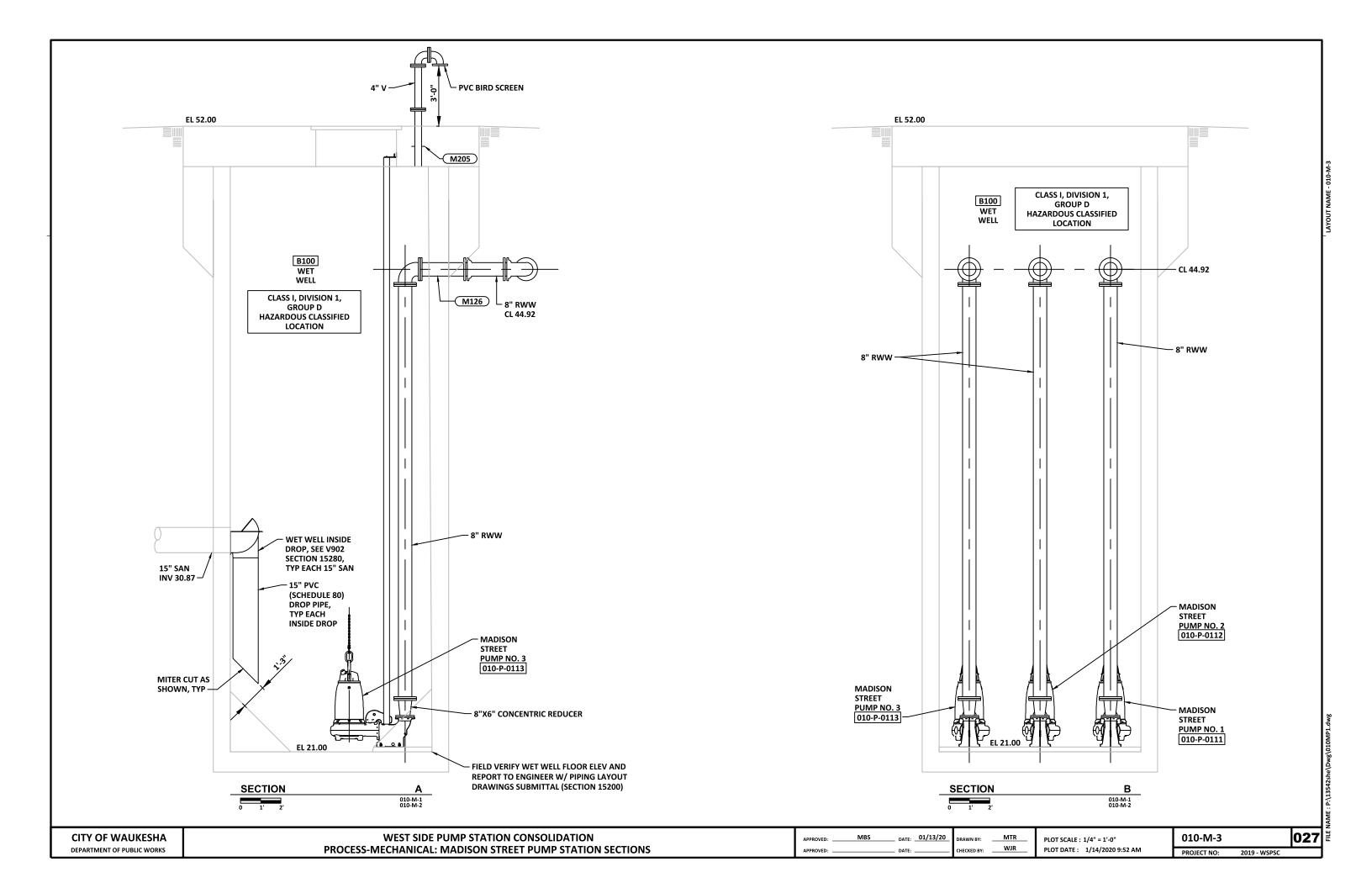
PROCESS-MECHANICAL: MADISON STREET PUMP STATION PLAN

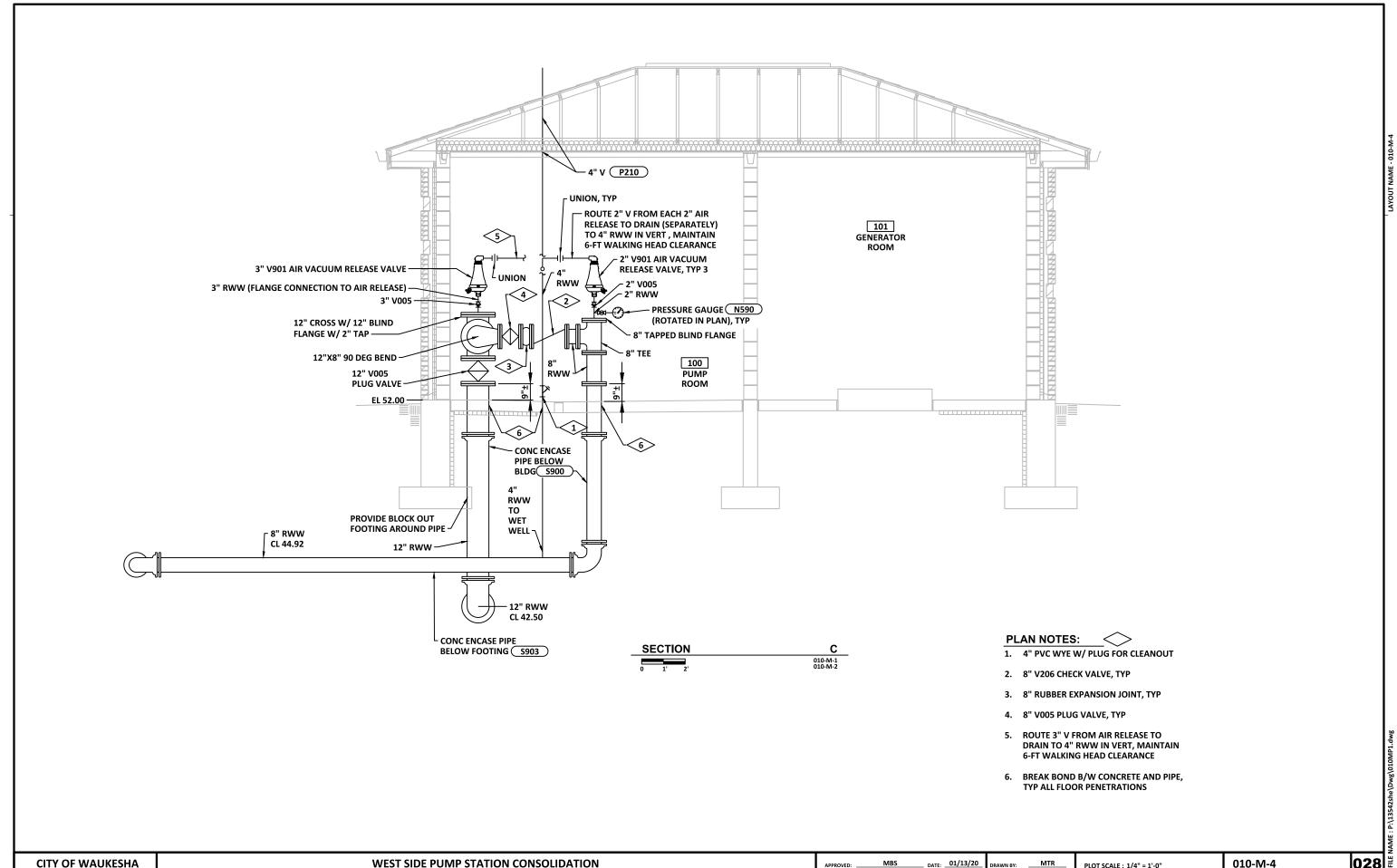
DEPARTMENT OF PUBLIC WORKS

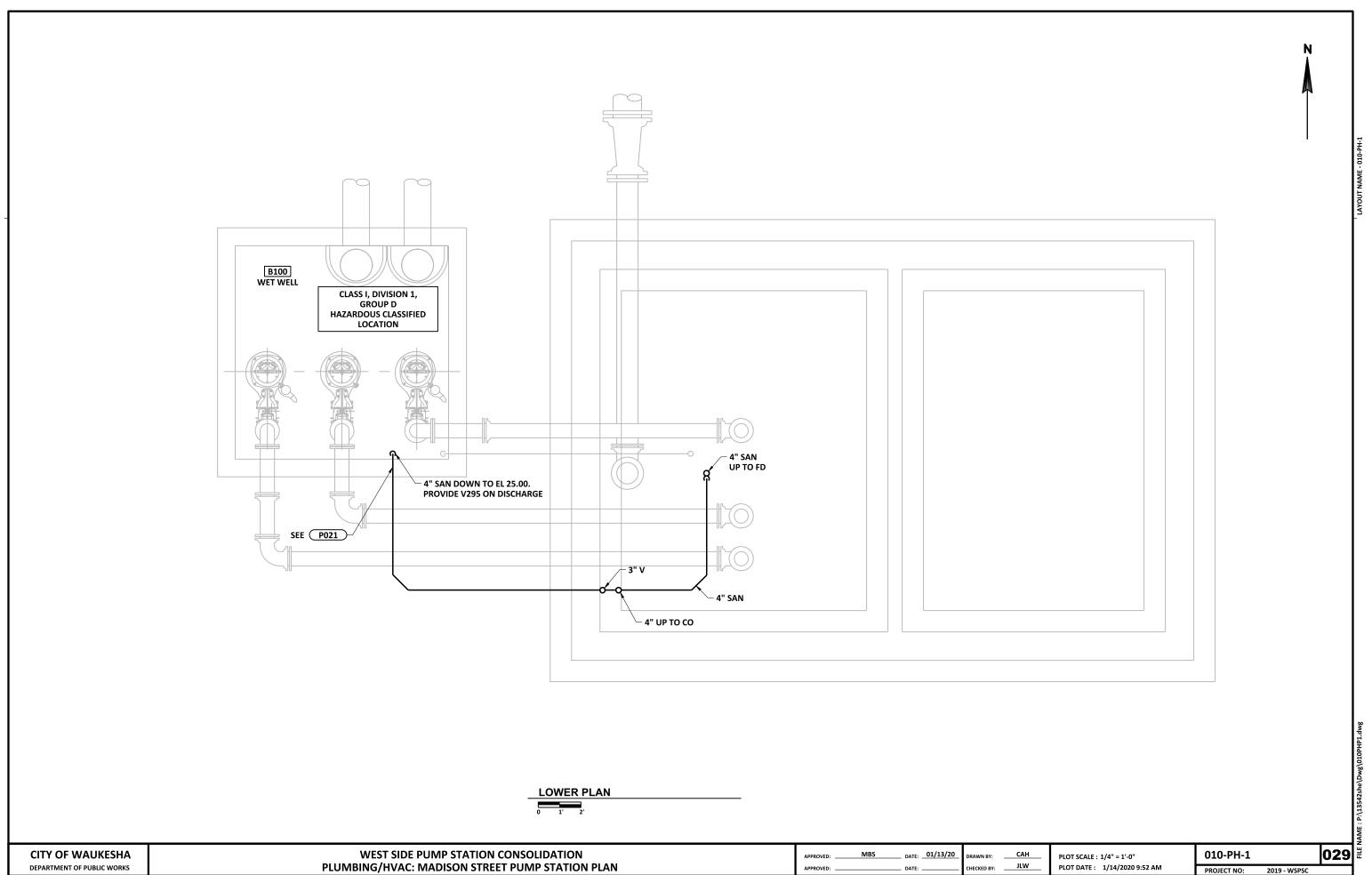
DATE: 01/13/20

PLOT SCALE : 1/4" = 1'-0" WJR PLOT DATE: 1/14/2020 9:52 AM

010-M-2 PROJECT NO: 2019 - WSPSC

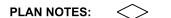




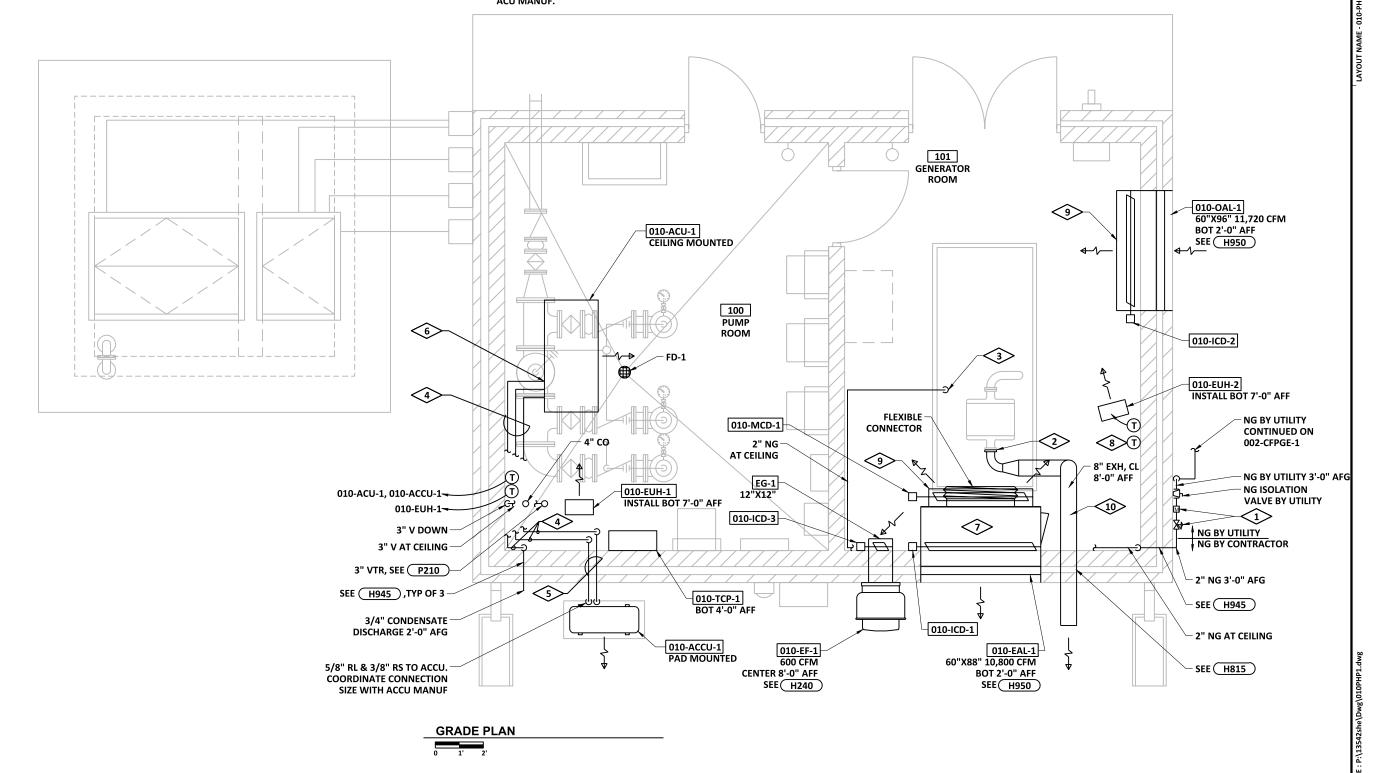


PLUMBING/HVAC: MADISON STREET PUMP STATION PLAN

PLOT DATE: 1/14/2020 9:52 AM



- 1. CONTRACTOR SHALL COORDINATE WITH NATURAL GAS UTILITY FOR NEW METER 7. INSULATE GENERATOR PLENUM BOX IN ACCORDANCE WITH SPECIFICATION AND REGULATING VALVE AS REQUIRED FOR SERVICE OF 2000 CFH AT 2 PSI.
- CONNECT EXH PIPING TO SILENCER FURNISHED BY GENERATOR MANUFACTURER. COORDINATE CONNECTION SIZE AND TYPE WITH GENERATOR MANUFACTURER.
- 2" NG DOWN TO GENERATOR CONNECTION. SEE H103
- 3/4" CND, 3/8" RL, AND 5/8" RS NEAR CEILING. 4.
- 3/8" RL & 5/8" RS 2'-0" AFF.
- 3/4" CND, 3/8" RL, AND 5/8" RS TO ACU. COORDINATE CONNECTION SIZE WITH ACU MANUF.
- 15083.
- TEMPERATURE SENSOR.
- COVER OPENING WITH STAINLESS STEEL HARDWARE WIRE CLOTH. MIN 60% FREE
- 10. SEE SPECIFICATION 15560 FOR EXH PIPING MATERIAL. INSULATE AND JACKET IN ACCORDANCE WITH SPECIFICATION 15083



CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

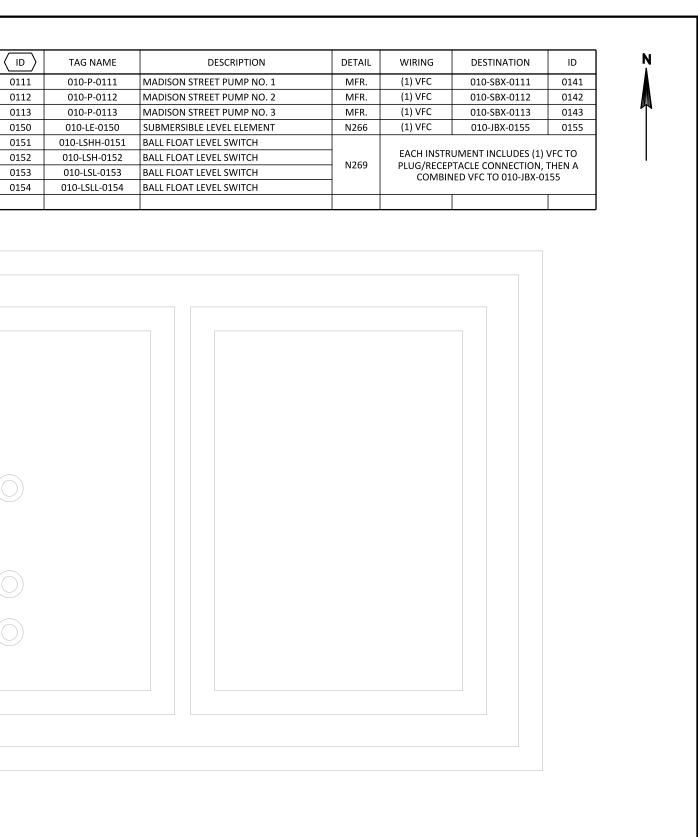
WEST SIDE PUMP STATION CONSOLIDATION PLUMBING/HVAC: MADISON STREET PUMP STATION PLAN DATE: 01/13/20

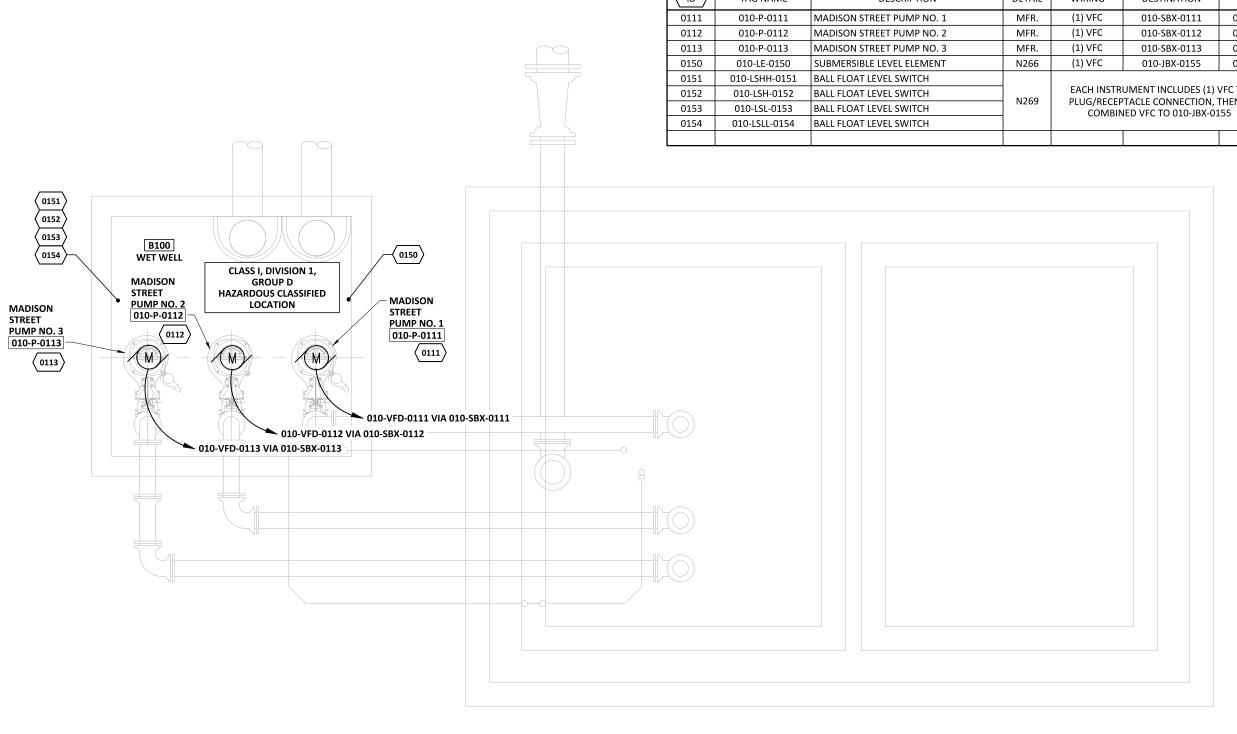
DRAWN BY: JLW

PLOT SCALE : 1/4" = 1'-0" PLOT DATE: 1/14/2020 9:52 AM

010-PH-2 PROJECT NO:

030 2019 - WSPSC





LOWER PLAN

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

WEST SIDE PUMP STATION CONSOLIDATION **ELECTRICAL/I&C: MADISON STREET PUMP STATION PLAN** __ DATE: 01/13/20 DRAWN BY:

AF/JTG CHECKED BY: JAB/DWG

PLOT SCALE : 1/4" = 1'-0" PLOT DATE: 1/14/2020 9:53 AM

010-EN-1 PROJECT NO: 2019 - WSPSC 031

GENERAL NOTES:

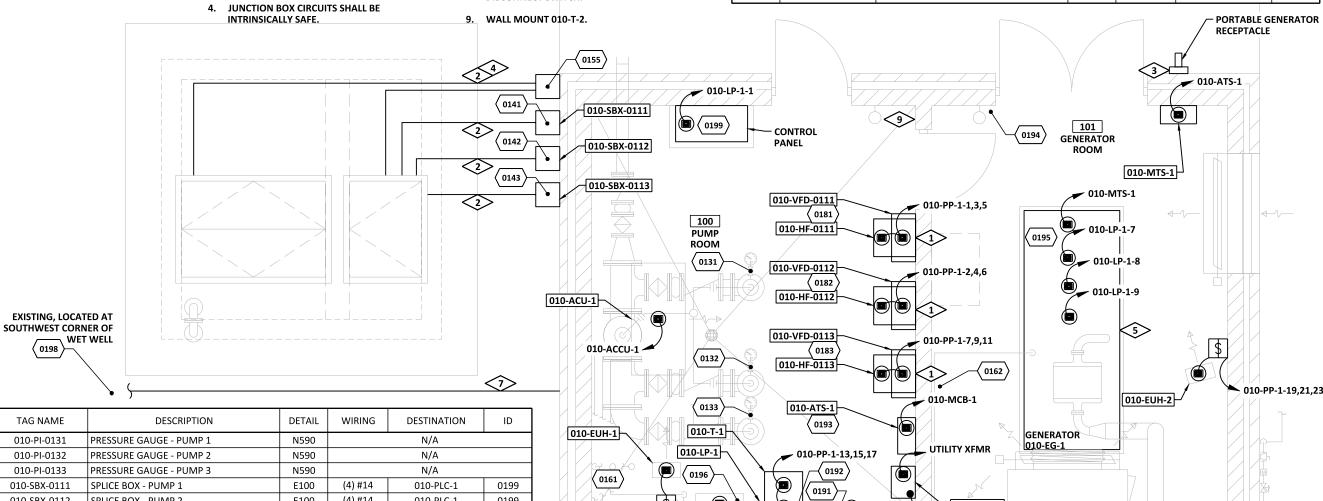
- 1. CONTRACTOR SHALL FIELD VERIFY **EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS PRIOR TO CONSTRUCTION** AND/OR FABRICATION.
- 2. SEE SPECIFICATION SECTION 01110 FOR PROJECT SEQUENCES AND CONSTRAINTS.
- 3. PROVIDE LIGHTNING PROTECTION ON THE **BUILDING. PROVIDE AIR TEMINALS AND** TWO DOWN CONDUCTORS. SEE SPECIFICATION 16065 FOR REQUIREMENTS.

0198

PLAN NOTES:

- 1. SEE E200 FOR MOUNTING DETAILS.
- 2. ROUTE DIRECT BURIED CONDUITS FROM SPLICE BOX TO WET WELL. SEE E600 . CONDUITS SHALL BE EMBEDDED IN WET WELL TOP SLAB, CONTRACTOR TO ROUTE BASED ON FIELD CONDITIONS AND DOCUMENT FINAL LOCATION.
- 3. PROVIDE A NEMA 4X JUNCTION BOX FOR MOUNTING PORTABLE GENERATOR RECEPTACLE AND ROUTING OF CONDUCTORS FROM PORTABLE GENERATOR RECEPTACLE TO 010-MTS-1.
- 5. GROUND GENERATOR AS PER NEC. PROVIDE DEDICATED GROUND ROD.
- 6. DISTANCE BETWEEN GROUND RODS NOT TO SCALE. MOUNTING DISTANCE BETWEEN GROUND RODS SHALL BE 20'-0". COORDINATE LOCATION WITH ENGINEERING AND FIELD CONDITIONS.
- PROVIDE 1" DIRECT BURIED CONDUIT FOR RADIO ANTENNA CABLE, SEE E600
- 8. PROVIDE NEMA 4X EXTERIOR 20A FUSIBLE DISCONNECT SWITCH.

(ID)	TAG NAME	DESCRIPTION	DETAIL	WIRING	DESTINATION	ID
0191	010-SPD-1	SURGE PROTECTIVE DEVICE	MFR.	WIRE IN	0199	
0192	010-SPD-2	SURGE PROTECTIVE DEVICE	MFR.	COMMON A	0199	
0193	010 ATC 1	ALITOMATIC TRANSFER CAMITOLI	MFR.	(8) #14	010-PLC-1	0199
0193	010-ATS-1	AUTOMATIC TRANSFER SWITCH	IVIFK.	(4) #14	010-EG-1	0193
0194	010-HS-1	GENERATOR E-STOP	MFR.	(2) #14	010-EG-1	0193
0195	010-EG-1	GENERATOR	MFR.	(8) #14	010-PLC-1	0199
0196	010-TCP-1	TEMPERATURE CONTROL PANEL	N170	(2) #14	010-EG-1	0193
0198	010-ANT-1	YAGI ANTENNA	EXIST	(1) COAX	010-PLC-1	0199
0199	010-PLC-1	1 MADISON STREET P/S PLC PANEL N180 N/A				



(ID)	TAG NAME	DESCRIPTION	DETAIL	WIRING	DESTINATION	ID			
0131	010-PI-0131	PRESSURE GAUGE - PUMP 1	N590	N/A					
0132	010-PI-0132	PRESSURE GAUGE - PUMP 2	N590		N/A				
0133	010-PI-0133	PRESSURE GAUGE - PUMP 3	N590		N/A				
0141	010-SBX-0111	SPLICE BOX - PUMP 1	E100	(4) #14	010-PLC-1	0199			
0142	010-SBX-0112	SPLICE BOX - PUMP 2	E100	(4) #14	010-PLC-1	0199			
0143	010-SBX-0113	SPLICE BOX - PUMP 3	E100	(4) #14	010-PLC-1	0199			
0155	010-JBX-0155	JUNCTION BOX	E100	(8) #14	010-PLC-1	0199			
0122	010-1PY-0122	JUNCTION BOX	E100	(1) STP	010-PLC-1	0199			
0161	010-TT-0161	TEMPERATURE TRANSMITTER	N171	(1) STP	010-PLC-1	0199			
0162	010-TT-0162	TEMPERATURE TRANSMITTER	N171	(1) STP	010-PLC-1	0199			
				(8) #14					
0181	010-VFD-0111	MADISON STREET PUMP NO. 1 VFD	MFR.	(2) STP	010-PLC-1	0199			
				(1) CE					
				(8) #14					
0182	010-VFD-0112	MADISON STREET PUMP NO. 2 VFD	MFR.	(2) STP	010-PLC-1	0199			
				(1) CE					
				(8) #14					
0183	010-VFD-0113	MADISON STREET PUMP NO. 3 VFD	MFR.	(2) STP	010-PLC-1	0199			
				(1) CE					

	010 140 1	l loso suu al	010-PP-1-19,21,23
0133 010-ATS	010-MCB-1	010-EUH-2	
010-EUH-1 010-T-1 011	3		
	LITHITY VENAD	GENERATOR 010-EG-1	
	-1-13,15,17		
	0192	7	
(0161)			
	010-MCB-1		
010-PP-1-14,16,18			
	010-ATS-1		
8 \$ [010-PP-1]	\forall \ \langle M \rangle		
010-TCP-1		+	
010-LP-1-2,4	010-	-LP-1-6	
DOOMER OF CADINE	- AND	110-EF-1	
PROVIDE CT CABINE 010-ACCU-1 METERING SOCKET AS PI	I AND —	<u> </u>	
ENERGIES STAND	PARDS	CROLIND TEST STATION	
		- GROUND TEST STATION (TYP) © E500	
	6	_	
GRADE PLAN-POWER	~	GROUND ROD (TYP) SEE E400	
0 1' 2'			

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

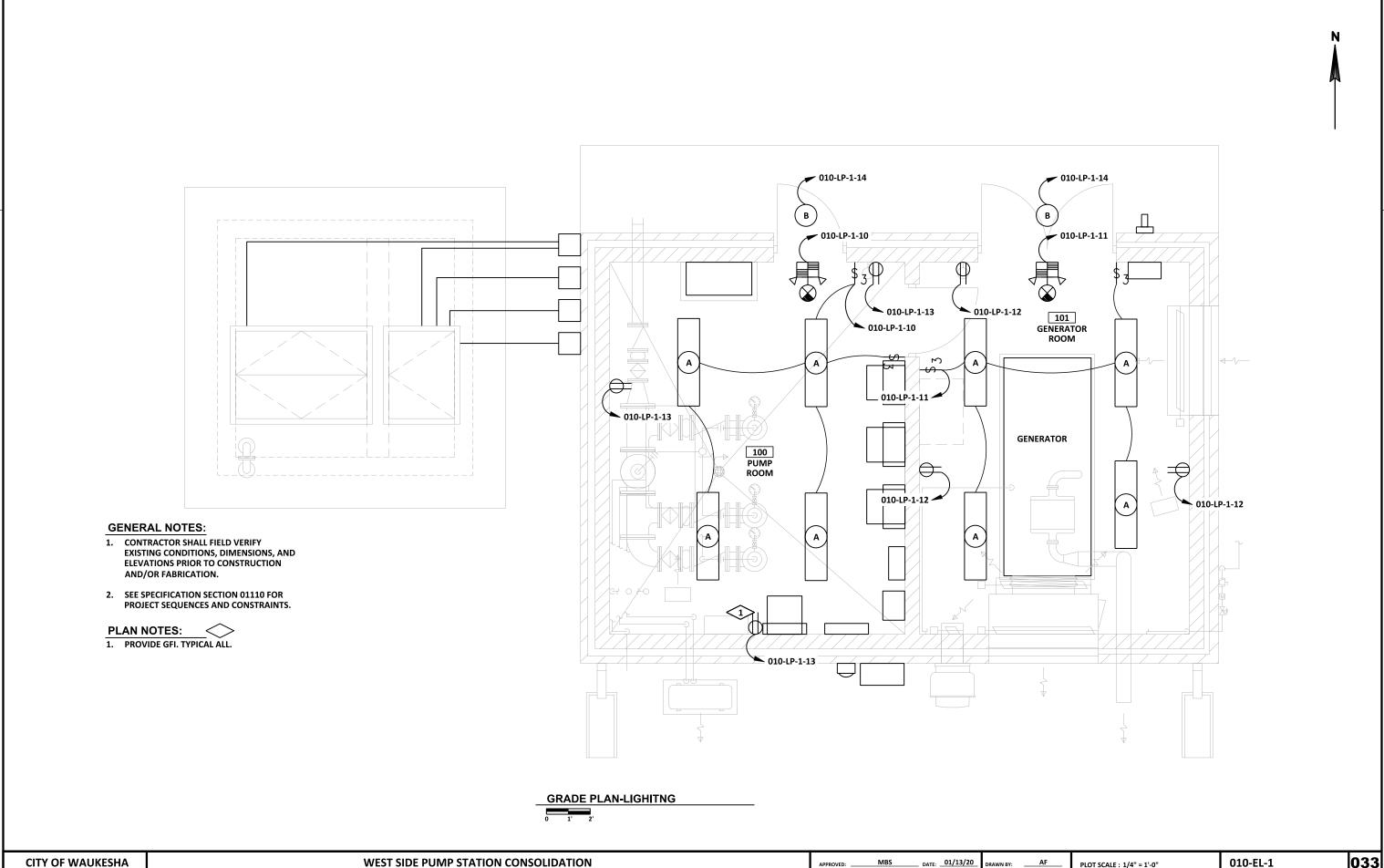
WEST SIDE PUMP STATION CONSOLIDATION **ELECTRICAL/I&C: MADISON STREET PUMP STATION PLAN**

DATE: 01/13/20 DRAWN BY:

CHECKED BY: JAB/DWG

PLOT SCALE : 1/4" = 1'-0" PLOT DATE: 1/14/2020 9:53 AM

010-EN-2 PROJECT NO: 2019 - WSPSC



DEPARTMENT OF PUBLIC WORKS

WEST SIDE PUMP STATION CONSOLIDATION **ELECTRICAL: MADISON STREET PUMP STATION LIGHTING PLAN** _ DATE: _01/13/20_

CHECKED BY: JAB

PLOT SCALE : 1/4" = 1'-0" PLOT DATE: 1/14/2020 9:53 AM

010-EL-1 PROJECT NO: 2019 - WSPSC

A010	ABB	REVIATIONS	
	1		
	CMU	CONCRETE MASONRY UNIT	
	COAT	COATING	
	CONC	CONCRETE	
	GB	GYPSUM BOARD	
	sc	SEALED CONCRETE	
	1		

NOTES:

 CONCRETE WALLS AND CEILINGS TO BE LEFT AS EXPOSED CONCRETE WHERE NOTED. 2. SEE SPECIFICATION SECTION 09960 FOR COATING SCHEDULE. 3. COAT BOTH SIDES OF NEW CMU WALLS. 4. COAT NEW CMU WALLS. CONCRETE WALLS LEFT 5. SEE SPECIFICATION SECTION 09960 FOR COATING REQUIREMENTS ON EXISTING SURFACES.

6"		·-		
	\vdash		٦	
T	ГГ			
56"				
7				
	Ш			
	┝└╴	l		

FINISH

COAT

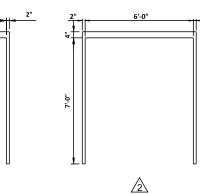
WALLS

MAT'L

CMU

1

DOOR TYPE= ⊗



CEILING

MAT'L

GB

 \triangle FRAME TYPE =

<u>KEY</u>

100

AL = ALUMINUM GHM = GALVANIZED HOLLOW METAL

ROOM FINISH SCHEDULE

ROOM

NAME

PUMP ROOM

GENERATOR ROOM

TYPE

1 L-1

1 L-2

D01

D03

ROOM

100

101

NO.

FRP = FIBERGLASS REINFORCED PLASTIC PNT = PAINT

DOOR SCHEDULE

H.W.SET TYPE

1

2

PNT 5

PNT 6

DOOR *

1-3/4"

1-3/4"

GHM

GHM

1-3/4" GHM PNT 2

SIZE

WIDTH X HEIGHT

3'-0"X7'-0"

(2) 3'-0"X7'-0"

3'-0"X7'-0"

FLOOR

MAT'L

CONC

CONC

FRAME

GHM PNT G3 GLASS

GHM PNT G3 GLASS

1 GHM PNT G2 GLASS

FINISH

sc

A020

REMARKS

EXST = EXISTING **★** ALL DOORS ARE TO BE INSULATED

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

WEST SIDE PUMP STATION CONSOLIDATION ARCHITECTURAL STANDARD DETAILS: MADISON STREET PUMP STATION

___ DATE: _01/13/20 APPROVED: ___

REMARKS

FINISH

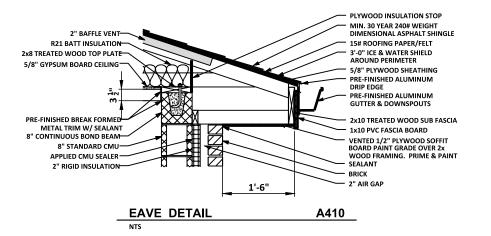
COAT

DRAWN BY: CHECKED BY: CLS

PLOT SCALE: N/A PLOT DATE: 1/14/2020 9:53 AM

099-A-1 PROJECT NO:



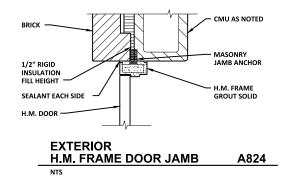


EXTERIOR H.M. FRAME DOOR HEAD A823

WEEP HOLES

SEALANT EACH

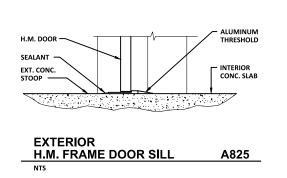
H.M. DOOR

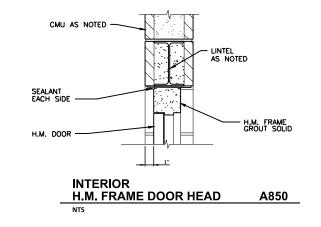


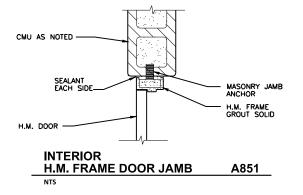
WALL BASE DETAIL

INTERIOR SLAB

A401







CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

4" BRICK MORTAR NET

WEEPS @ 24" O.C.

GRADE -

WEST SIDE PUMP STATION CONSOLIDATION ARCHITECTURAL STANDARD DETAILS: MADISON STREET PUMP STATION DATE: 01/13/20 DRAWN BY:

CLS CHECKED BY:

PLOT SCALE: N/A PLOT DATE: 1/14/2020 9:53 AM

099-A-2 PROJECT NO: 035

GENERAL STRUCTURAL NOTES

1. THE GENERAL STRUCTURAL NOTES AND STANDARD STRUCTURAL DETAILS APPLY TO THE ENTIRE PROJECT UNLESS SPECIFICALLY NOTED OTHERWISE.

DESIGN AND CONSTRUCT IN CONFORMANCE WITH THE INTERNATIONAL BUILDING CODE, 2015 EDITION.

2. SUPERIMPOSED DESIGN LOADS

B. C. D. (ROOF LIVE LOAD ROOF DEAD LOAD MECHANICAL EQUIPMENT DECUPANCY CATEGORY OF BUILDING	20 PSF 10 PSF VERIFY WITH MFR III
E. 3		30 PSF 23 PSF + DRIFT 1.0 1.1 1.0
I. W		120 MPH 90 MPH III C +/- 0.18 PSI +/- 30 PSF
A.	IC DESIGN DATA: RISK CATEGORY	III
	IMPORTANCE FACTOR, I	1.25
C.	MAPPED SPECTRAL RESPONSE ACCELERATIONS 1. Ss 2. S1	0.089g 0.047g
	SITE CLASS	C
E.	SPECTRAL RESPONSE COEFFICIENTS	0.005-
	1. Sds 2. Sd1	0.095g 0.075g
F.	SEISMIC DESIGN CATEGORY	В
_	DIGIG OFFICIAL FORCE DECICENCE CHOTELL	

FOUNDATIONS

1. GEOTECHNICAL INVESTIGATION BY INTERTEK PSI:

DESIGN BASE SHEAR, V

BASIC SEISMIC FORCE RESISTING SYSTEM

NET ALLOWABLE SOIL BEARING CAPACITIES AT STR 010: 2000 PSF

PLACE FOOTINGS ON NATURAL UNDISTURBED EARTH OR STRUCTURAL FILL
 PLACE FILL AGAINST FOUNDATION WALLS ENCLOSING INTERIOR SPACES AFTER CONSTRUCTION
 SUCH AS CROSS WALLS, BEAMS OR SLABS ARE IN PLACE TO BRACE WALL AND SUCH CONSTRUCTION
 HAS REACHED ITS DESIGN STRENGTH.

MASONRY SHEAR WALLS

TO MINIMIZE LATERAL FORCES AGAINST THE STRUCTURE DUE TO WEDGING ACTION OF THE SOIL, BEGIN COMPACTION OF EACH LAYER AT THE STRUCTURE WALL.

REINFORCEMENT

REINFORCEMENT STEEL
 A. DEFORMED BARS:
 ASTM A615 - GRADE 6
 UNLESS NOTED OTHERWISE PROVIDE CLEAR COVER FOR REINFORCEMENT AS FOLLOWS:

A. CAST AGAINST:

1. EARTH:

2. MUD SLAB: B. EXPOSED TO EARTH, WEATHER, OR WATER

A. #5 BARS OR SMALLER: 1 1/2 INCHES B. #6 THROUGH #11 BARS:
2. WALLS, BEAMS, AND COLUMNS:
C. NOT EXPOSED TO EARTH, WEATHER, OR WATER 2 INCHES 2 INCHES

1. SLABS AND WALLS
A. #3 THROUGH #7 BARS:

1 INCH #8 THROUGH #11 BARS: 1 1/2 INCHES 2. BEAMS AND COLUMNS: 1 1/2 INCHES DEAMS AND COLUMNIS:
 PLACE DOWELS BEFORE PLACING CONCRETE.
 DO NOT FIELD WELD OR FIELD BEND REINFORCING BARS.

CONCRETE

DESIGN STRENGTH
 A. INTERIOR EQUIPMENT BASES, FENCE POST PIERS, CONCRETE FILLETS IN TANKS, AND WHERE SPECIFICALLY NOTED

CLASS B: ALL LOCATIONS, EXCEPT WHERE CLASS B SPECIFIED

CLASS A:

F'C = 4500 PSI

UNLESS NOTED OTHERWISE, CONSTRUCTION JOINTS SHOWN ARE OPTIONAL CONSTRUCTION
JOINTS NOT SHOWN SHALL BE APPROVED BY ENGINEER.

BEFORE CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE CLEANED, LAITANCE
REMOVED, AND SURFACE WETTED. REMOVE STANDING WATER.

BEAMS SHALL BE PLACED MONOLITHICALLY AS PART OF SLAB SYSTEM, UNLESS DETAILED

5. CONSTRUCTION JOINTS SHALL HAVE ROUGHENED SURFACES. SURFACE SHALL HAVE AMPLITUDE OF 1/4 IN. MIN.

PROVIDE 3/4 IN. CHAMFER ON EXTERNAL CORNERS OF EXPOSED EDGES OF CONSTRUCTION JOINTS.
 VERIFY EQUIPMENT PAD AND CURB LOCATIONS, DIMENSIONS, AND ELEVATIONS WITH

EQUIPMENT MANUFACTURERS

MASONRY

1. MASONRY OPENINGS LESS THAN 4 FT IN WIDTH THAT DO NOT HAVE A LINTEL SCHEDULED SHALL HAVE AN 8 IN. HIGH REINFORCED MASONRY LINTEL WITH 2-#5 BARS OR DOUBLE ANGLE STEEL ANGLE LINTEL.

2. UNLESS NOTED OTHERWISE, PROVIDE A CONTINUOUS BOND BEAM REINFORCED WITH 2-#5 AROUND THE TOP OF BUILDINGS. 3. UNLESS NOTED OTHERWISE, PROVIDE HORIZONTAL MASONRY REINFORCING IN WALLS AT 16

IN. ON CENTER.

4. FILL JAMB CORES OR OPENINGS OVER 3 FT IN WIDTH WITH MASONRY GROUT FROM BOTTOM OF LINTEL TO BOTTOM OF WALL. REINFORCE CORES WHERE NOTED.

5. BRACE MASONRY WALLS UNTIL ROOF SYSTEM IS IN PLACE.

METALS

1. STEEL
A. W SHAPES
B. S. C. AND MC SHAPES
C. SQUARE OR RECTANGULAR TUBE: ASTM A992 ASTM A36 ASTM A500, GRADE B, 46 KSI ASTM A53 D. PIPE:
E. PLATES AND BARS
F. BOLTED CONNECTIONS FOR STEEL MEMBERS:
G. BOLTED CONNECTIONS FOR ALUMINUM MEMBERS: ASTM A36 ASTM A325 STAINLESS STEEL H. STAINLESS STEEL
H. STAINLESS STEEL
1. EXTERIOR AND SUBMERGED USES
2. INTERIOR AND ARCHITECTURAL USES
3. CAST—IN—PLACE ANCHOR BOTLS AISI, TYPE 316 AISI, TYPE 304 AISI, TYPE 316 2. ALUMINUM A. SHAPES AND PLATES: ALLOY 6061-T6 OR 6063-T6

3. ANCHOR BOLTS, 1/2" MINIMUM DIA:

A. DRY LOCATIONS

B. ALL OTHER LOCATIONS

STAINLESS STEEL

4. WELD STRUCTURAL STEEL WITH E70XX ELECTRODES IN ACCORDANCE WITH AWS REQUIREMENTS.

5. WELD ALUMINUM IN ACCORDANCE WITH AWS AND AA REQUIREMENTS.

6. COAT ALUMINUM SURFACES IN CONTACT WITH CONCRETE IN ACCORDANCE WITH AA REQUIREMENTS. UNDER NO CIRCUMSTANCES SHALL ALUMINUM CONTACT DISSIMILAR METALS.

MISCELLANEOUS

1. VERIFY PERTINENT EXISTING CONDITIONS AND DIMENSIONS BEFORE STARTING

CONSTRUCTION AND/OR FABRICATION.

2. FOR ADDITIONAL OPENINGS, ANCHORS, AND EMBEDDED ITEMS SEE ARCHITECTURAL, PROCESS, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.

REMOVALS

- 1. REMOVE ALL CONCRETE ANCHORS, ANCHOR BOLTS AND OTHER EMBEDMENTS A MINIMUM OF 1" BEYOND FINISHED SURFACE AND PATCH SURFACE WITH PATCHING MORTAR TO MATCH EXISTING.

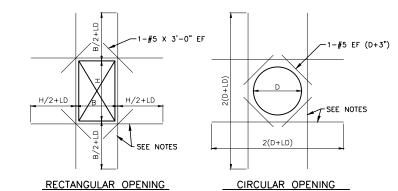
 2. REMOVE EXISTING CONCRETE PADS OF ANY EQUIPMENT BEING REMOVED. REMOVE
- CONCRETE AND REINFORCEMENT A MINIMUM OF 1" BEYOND FINISHED SURFACE AT ANY LOCATION WHERE NEW CONCRETE PAD WILL NOT COVER ROUGH SURFACE OF REMOVAL. PATCH BACK TO FINISHED SURFACE WITH PATCHING MORTAR.

 SAWCUT AND REMOVE CONCRETE TO LIMITS NOTED. REMOVE CONCRETE AND
- REINFORCEMENT A MINIMUM 1" BEYOND FINISHED SURFACE AT ANY LOCATION WHERE NEW CONCRETE WILL NOT COVER ROUGH SURFACE OF REMOVAL. PATCH BACK TO FINISHED SURFACE WITH PATCHING MORTAR.

MINIMUM REINFORCEMENT BAR SPLICE AND ANCHORAGE LENGTH (INCHES)

BAR SIZE		SPLICE IGTH	EMBEI LEN	COMPRESSION LAP LENGTH		
	TOP BARS	OTHERS	TOP BARS	OTHERS		
3	24	19	19	15	12	
4	32	25	25	19	15	
5	40	31	31	24	19	
6	48	37	37	29	23	
7	70	54	54	42	26	
8	80	62	62	48	30	
9	91	70	70	54	34	
10	102	78	78	61	38	
11	113	87	87	67	42	

- TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.
- . FOR BARS SPACED LESS THAN 6 BAR DIAMETER OC INCREASE
- WHEN LAPPING TWO DIFFERENT SIZE BARS USE THE LAP LENGTH OF THE SMALLER BAR UNLESS NOTED OTHERWISE.
- EMBEDMENT LENGTH IS MINIMUM LENGTH OF EMBEDMENT FOR STRAIGHT DOWELS WHERE END HOOK IS NOT SHOWN, UNLESS
- 5. COMPRESSION LAP LENGTH FOR VERTICAL COLUMN BARS ONLY.
- 6. HOOKS SHALL BE ACI STANDARD UNLESS OTHERWISE NOTED.
- FOR EPOXY COATED REINFORCEMENT, INCREASE LENGTH BY 20% FOR TOP BARS AND 50% FOR OTHERS.



NOTES:

- 1. THESE DETAILS APPLY TO ALL OPENINGS IN CONCRETE WALLS AND SLABS WHEN THE LARGEST OPENING DIMENSION IS GREATER THAN TWO TIMES SECTION THICKNESS OR GREATER THAN REINFORCING SPACING IN THE SECTION, UNLESS OTHERWISE INDICATED IN THE DRAWINGS.
- THE AREA OF ADDITIONAL REINFORCING REQUIRED IN EACH FACE ON EACH SIDE OF AN OPENING SHALL EQUAL OR EXCEED ONE—HALF OF THE AREA OF THE INTERCEPTED BARS IN EACH FACE, IN EACH DIRECTION, RESPECTIVELY WITH A MINIMUM OF 1-#5 BAR EACH FACE.
- PLACE THE ADDED BARS IN THE SAME LAYERS AS THE WALL OR SLAB REINFORCING.
- 4. LD = EMBEDMENT LENGTH. SEE S010

ADDITIONAL REINFORCEMENT AT OPENINGS IN WALLS AND SLABS DETAIL

NTS

S020

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

WEST SIDE PUMP STATION CONSOLIDATION

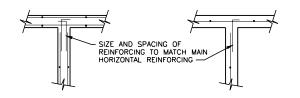
MBS DATE: 01/13/20 APPROVED: DRAWN BY:

KAG CLS CHECKED BY:

PLOT SCALE: N/A PLOT DATE: 1/14/2020 9:53 AM

099-S-1 PROJECT NO: 90° CORNER - 2 LAYERS

90° CORNER - 1 LAYER



<u>T-INTERSECTION - 2 LAYERS</u> <u>T-INTERSECTION - 1 LAYER</u>

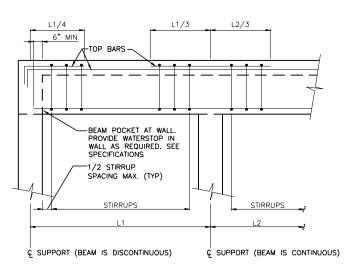
HORIZONTAL

REINFORCEMENT DETAIL S030

CONCRETE BEAM SCHEDULE S315 REINFORCEMENT LEFT SKETCH RIGHT REMARKS G STIRRUPS #3@10" 010B1 12X24 3-#6 3-#6

NOTES:

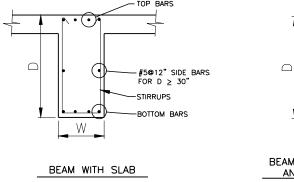
- LEFT SUPPORT IS DESIGNATED AS THE SUPPORT CLOSEST THE LEFT SIDE OR BOTTOM OF DRAWING ON WHICH FRAMING PLAN IS DRAWN, UNLESS NOTED OTHERWISE.
- 2. FOR TYPICAL BEAM REINFORCEMENT SEE \$\(\sigma \)316 & \$\sigma \)317
- 3. THE BEAM DEPTH NOTED IS MINIMUM REQUIRED. CONTRACTOR SHALL INCREASE DEPTH AS REQUIRED TO PROVIDE FOR FLOOR AND / OR ROOF SLOPES.



NOTES:

1. WALL REINFORCING SHALL BE CONTINUOUS THRU BEAM POCKETS. TOP BARS MAY BE SPLICED AT MID SPAN. BOTTOM BARS MAY BE SPLICED AT SUPPORT.

BEAM REINFORCING DETAIL \$316

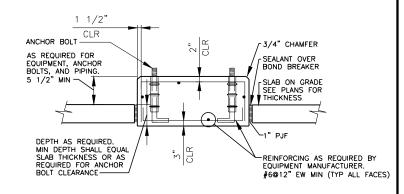


#5@12" SIDE BARS FOR D > 30" W

BEAM WITH GRATING SUPPORT ANGLE OR HATCH FRAME

TYPICAL BEAM SECTIONS S317

EQUIPMENT PAD DETAIL NTS



NOTES:

CONCRETE BASE AS REQUIRED BY EQUIPMENT MANUFACTURER.
 MINIMUM OF 2 TIMES THE MASS OF EQUIPMENT SUPPORTED OR
 TIMES THE MASS OF MOVING PARTS, WHICHEVER IS
 GREATER.

EQUIPMENT PAD DETAIL S344

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

WEST SIDE PUMP STATION CONSOLIDATION STRUCTURAL STANDARD DETAILS: MADISON STREET PUMP STATION

DATE: 01/13/20 APPROVED: DRAWN BY: CHECKED BY:

-3/4" CHAMFER

CONSTRUCTION JOINT.

LEAVE ROUGH. CLEAN AND APPLY BONDING COMPOUND

-#3@12" (CAST-IN-PLACE OR DRILLED AND GROUTED)

- SLAB. SEE PLANS FOR THICKNESS

S340

#3@12"-

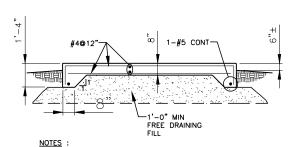
CLS

PLOT SCALE: N/A PLOT DATE: 1/14/2020 9:53 AM 099-S-2

037

PROJECT NO: 2019 - WSPSC





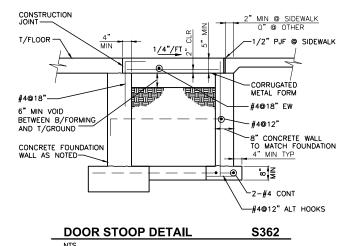
NOTES:

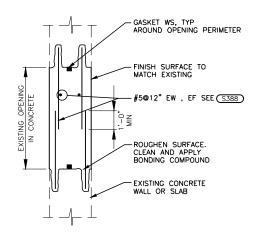
1. AT CONTRACTORS OPTION, PAD CAN BE PLACED FULL THICKNESS THROUGHOUT

S346

EQUIPMENT PAD DETAIL

NTS





NOTES:

1. FOR OPENINGS LESS THAN 1'-0", FILL WITH NONSHRINK GROUT AND PROVIDE GASKET WS ALL AROUND.

S371

CONCRETE OPENING PATCHING DETAIL

NOTES:
1. EMBEDMENT "X"=16 BAR DIAMETERS MIN.
2. HOLE DIAMETER "D"=PER EPOXY MFR.

DRILLED IN DOWEL DETAIL \$385

LAPPED SPLICE LENGTH
SEE S010

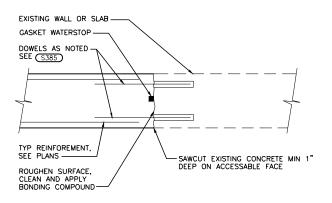
- EXISTING STRUCTURE

- DOWEL BAR AS NOTED

NEW CONSTRUCTION

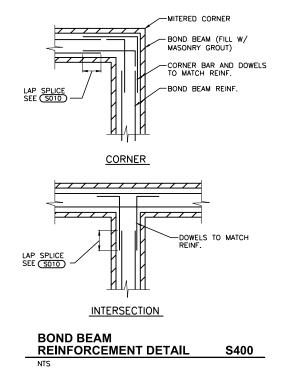
-ROUGHEN SURFACE, CLEAN AND APPLY BONDING COMPOUND

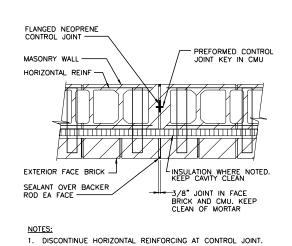
EPOXY ADHESIVE



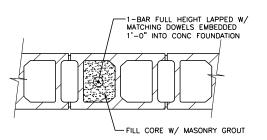
EXISTING CONCRETE DETAIL \$388

NEW CONCRETE TO





BRICK AND CMU CONTROL JOINT DETAIL S431



NOTES:
1. REINFORCING SIZE AND SPACING AS NOTED. 2. TYPICAL WHERE NOTED ON PLANS AS THUS

REINFORCED **MASONRY DETAIL** S451

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

WEST SIDE PUMP STATION CONSOLIDATION

DATE: 01/13/20 APPROVED: DRAWN BY: CHECKED BY:

KAG CLS

PLOT SCALE: N/A PLOT DATE: 1/14/2020 9:53 AM

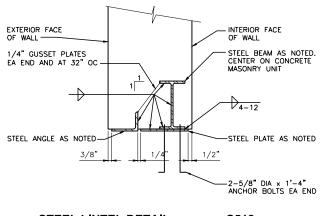
099-S-3 PROJECT NO: 038

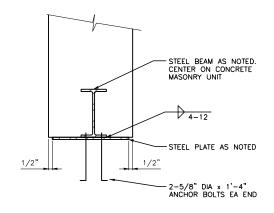
LIN	TEL SCHEDULE	S 51	10	
MARK	DESCRIPTION		TYPE	REMARKS
L-1	W8x15 W/ 5/16" ዋ & L6x4x5/16 LLH		I	8" BEARING EACH END. SEE S512
L-2	W8x15 W/ 5/16" ₽		I	8" BEARING EACH END. SEE S513

NOTES:

1. MASONRY OPENINGS 4'-0" AND LESS IN WIDTH THAT DO NOT HAVE A LINTEL SCHEDULED SHALL HAVE A BOND BEAM WITH 2-#5 BARS OR STEEL ANGLE LINTEL WITH A TOTAL WIDTH OF HORIZONTAL LEGS APPROXIMATELY 1" LESS THAN WALL THICKNESS.

PROVIDE A MINIMUM OF 8" BEARING AT EACH END FOR STEEL BEAM LINTELS AND BOND BEAM LINTELS AND 6" BEARING AT EACH END FOR ANGLE LINTELS UNLESS NOTED OTHERWISE.



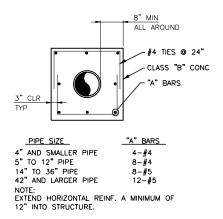


STEEL LINTEL DETAIL

S512

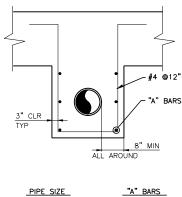
STEEL LINTEL DETAIL

S513



PIPE ENCASEMENT DETAIL

NTS



4" AND SMALLER PIPE 4-#4 5" TO 12" PIPE 14" AND LARGER PIPE

PIPE ENCASEMENT DETAIL S903

2019 - WSPSC

INTEGRALLY CAST D.I. COLLAR STEEL COLLAR NOMINAL PIPE DIA (INCHES) C DIAMETER T THICKNESS C DIAMETER THICKNESS (INCHES) (INCHES) (INCHES) (INCHES) 6.80 8.90 11.05 13.10 15.20 0.50 0.50 0.50 0.50 0.50 8.00 10.00 12.50 14.50 16.50 0.25 0.25 0.25 0.25 0.25 0.75 0.75 0.75 0.75 0.75 19.50 21.75 23.75 25.75 30.25 0.25 0.25 0.38 0.38 0.38 17.30 19.40 22.50 24.60 28.80 1.00 1.00 1.25 1.25 1.50 1.50 36.50 43.00 49.50 56.50 63.00 70.25 0.50 0.50 0.75 0.75 1.00 1.00 36.00 42.30 50.75 57.05 66.06 70.11

> DUCTILE IRON WALL AND FLOOR PIPE COLLAR DIMENSIONS DETAIL M105

WALL FACE OF ROOM INTERIOR OR TOP OF BURIED SLABS **SEAL WITH MECHANICAL** SEAL WITH MECHANICAI SLEEVE SEAL, JOINT SHALL BE WATERTIGHT NOTE: BOLTS SHALL BE 316 SST UNLESS OTHERWISE NOTED. ROUGHEN INTERIOR OF REMAINING OPENING AND O.D. OF PIPE + 2" MIN. FOR FLANGED PIPE, O.D. OF FLANGE + 2" MIN CAST-IN-PLACE HOLE OR CORE HOLE IN EXISTING WALL, FLOOR OR SLAB

M126

PIPE PENETRATION

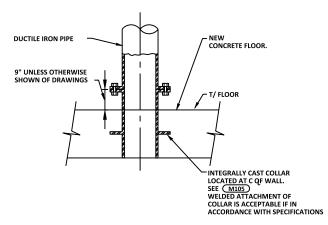
DETAIL

NTS

NOMINAL PIPE DIA (INCHES) W WELD SIZE (INCHES) DIAMETER THICKNESS (INCHES) (INCHES) 0.250 0.250 0.250 0.250 0.250 3.50 4.00 5.00 6.00 6.50 1 1 1/2 2 2 1/2 3 0.375 0.375 0.375 0.375 0.375 8.00 10.00 12.50 14.50 16.50 3/16 3/16 3/16 3/16 3/16 0.50 0.50 0.50 0.50 0.50 19.50 21.75 23.75 25.75 30.25 0.75 0.75 0.75 1.25 1.50 36.50 43.00 49.50 56.50 63.00 5/16 5/16 5/16 5/16 5/16

MINIMUM DIMENSIONS

STEEL WALL AND FLOOR PIPE COLLAR DIMENSION DETAIL M115



FLG / PLAIN END DUCTILE IRON FLOOR PIPE DETAIL M205

PATCH OPENING BETWEEN WALL AND SLEEVE PER - SEAL WITH MECHANICAL SLEEVE SEAL SERVICE PIPE (CENTER THROUGH SLEEVE) ESCUTCHEONS SLEEVES THROUGH EXTERIOR WALLS SHALL HAVE COLLAR. SEE M115 - STANDARD WEIGHT STEEL
PIPE SLEEVE 2" LARGER
THAN SERVICE PIPE FLANGE.
HOT DIP GALVANIZED AFTER
FABRICATION

PIPE PENETRATION THROUGH MASONRY WALL DETAIL

CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

WEST SIDE PUMP STATION CONSOLIDATION

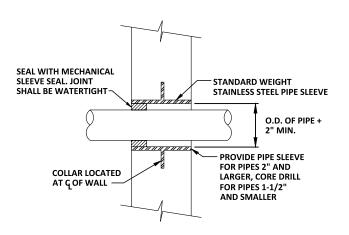
DATE: 01/13/20 APPROVED: DRAWN BY:

MTR WJR CHECKED BY:

PLOT SCALE: N/A PLOT DATE: 1/14/2020 9:53 AM 099-M-1

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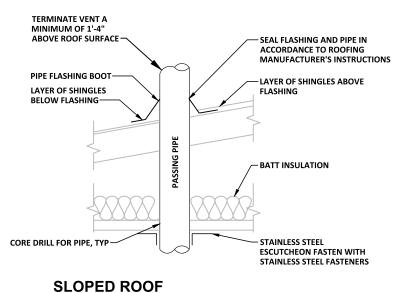
PROCESS-MECHANICAL STANDARD DETAILS: MADISON STREET PUMP STATION



WALL SLEEVE DETAIL

P021

NTS



	AIR INLET AND OUTLET SCHEDULE											
TAG NO.	MANUFACTURER	MODEL	SERVICE	MAX. APD (IN. W.C.)	MAX. NC	PATTERN	FINISH	MATERIAL	REMARKS			
EG-1	CARNES	RARM	EXHAUST	0.10	30	SD	WBE	ALUM				
		·										

P210

SD	= 3/4" SINGLE BLADE DEFLECTION.
W/DE	- WHITE BAKED ENAME!

PIPE PENETRATION DETAIL

	ELECTRIC HEATER SCHEDULE SEC													SECTION 15765	
					MOUNT		AIR DATA		EL	ECTRICAL DAT	Α	M	OTOR DATA		
TAG NO.	MANUF.	MODEL NUMBER	TYPE	OUTPUT (MBH)	MOUNT. HEIGHT (FT)	CFM	THROW (FT)	ΔT (°F)	KW	VOLT/Ø	AMP	HP	VOLT/Ø	RPM	REMARKS
010-EUH-1	QMARK	MUH-03-41	HOR PROP	10.2	1	800	12	27	3	460/3	3.6	1/100	460/3	1600	
010-EUH-2	QMARK	MUH-05-41	HOR PROP	17.0		800	12	45	5	460/3	6.0	1/100	460/3	1600	

	MOTOR OPERATED DAMPER SCHEDULE												
TAG NO.	ТҮРЕ	FUNCTION	BLADES	CFM	WIDTH (IN.)	HEIGHT (IN.)	FAIL POS.	ENCLOSURE NEMA	ELECTRICAL	SERVICE	MOUNTING	REMARKS	
010-ICD-1	INSULATED	MODULATING	PARALLEL	10,800	60	88	OPEN	2	сс	EXHAUST	DUCT		
010-ICD-2	INSULATED	OPEN/CLOSE	PARALLEL	11,720	60	96	OPEN	2	сс	INTAKE	LOUVER		
010-ICD-3	INSULATED	OPEN/CLOSE	PARALLEL	600	12	12	CLOSE	2	сс	EXHAUST	DUCT	1	
010-MCD-1	CONTROL	MODULATING	PARALLEL	10,800	48	36	OPEN	2	сс	RETURN	DUCT		

1. = PROOF OF OPEN LIMIT SWITCH.

	FAN SCHEDULE SECTION 15830														
TAG NO.	MANUFACTURER	MODEL NUMBER	TYPE	SERVICE	CFM	ESP (IN. W.C.)	ГА ВНР	FAN RPM	DRIVE	SONES	HP/WATTS	ELECTRICA VOLTS		RPM	REMARKS
010-EF-1	GREENHECK	CUE-099-VG	WALL CENTRI	EXHAUST	600	0.30	0.07	1120	DIRECT	7	1/4	120	1	1725	1,2,3,4,5,6

- = ALUMINUM CONSTRUCTION. = STAINLESS FASTENERS.
- = HEAVY DUTY NEMA 4X DISCONNECT. = ALUMINUM BIRDSCREEN.
- = ECM MOTOR WITH SPEED CONTROL DIAL MOUNTED NEAR FAN OR DUCTWORK TO SERVE BALANCING PURPOSES ONLY.
- = SIDEWALL MOUNTED.

AIR COOLED CONDENSER SCHEDULE SECTION 1575												
TAG NO.	MANUF	MODEL	NOMINAL CAP (TONS)	TOTAL CAP* (MBH)	REQ SEN CAP (MBH)	REFRIGERANT	STAGES	AMB. TEMP (°F)	SEER	VOLT/ PHASE	MCA (AMPS)	REMARKS
010-ACCU-1	TOSHIBA	RAV-SP300AT2-UL	2.5	30	19.8	R-410A	1	95	20.5	208/1	24	1,2,3,4

- * = CAPACITY AT SCHEDULED AMBIENT TEMPERATURE

 1. = MATCHED WITH COOLING COIL FROM CEILING SUSPENDED DUCT FREE SPLIT SYSTEM SCHEDULE. 2. = DESIGNED TO BE PAD MOUNTED.
- 3. = WIND BAFFLES. 4. = LOW AMBIENT CONTROLS (-13F).

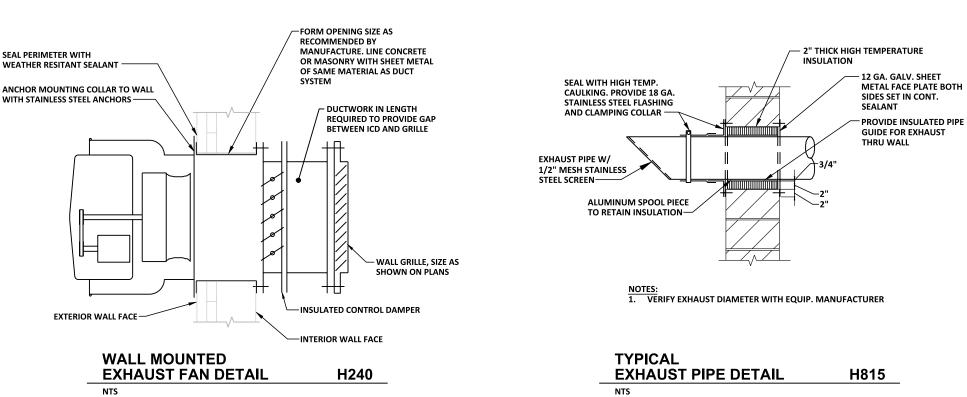
	CEILING SUSPENDED DUCT FREE SPLIT SYSTEM SECTION 15752													
TAG NO.	MANUF.	MODEL	CFM	НР	VOLTS	PHASE	FLA (AMP)	COOLING DATA TOT CAP EAT(°F) LAT(°F) (MBH) (DB/WB) (DB/WB)		HEATIN TOT CAP (MBH)	G DATA EAT (°F)	LAT (°F)	REMARKS	
010-ACU-1	TOSHIBA	RAV-SP300CT-UL	860	-	208	1	-	30	81/65	58.9/57.3	29.8	60	92	1,2

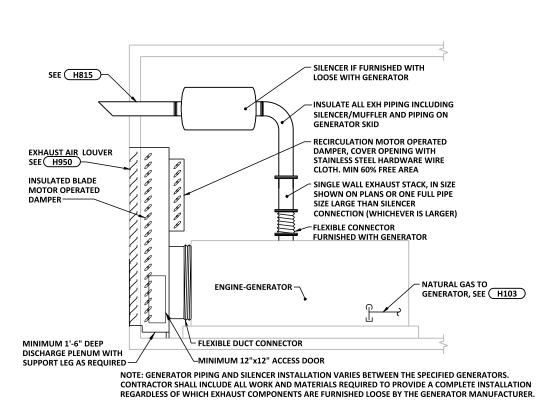
- 1. = WIRED REMOTE CONTROLLER.
- 2. = POWER VIA THE AIR COOLED CONDENSING UNIT.

WALL LOUVER SCHEDULE												
TAG NO.	MANUFACTURER	MODEL NUMBER	SERVICE	CFM	WIDTH (IN.)	HEIGHT (IN.)	DEPTH (IN.)	MAX APD (IN. W.C.)	MAX FREE AREA VEL. (FPM)	REMARKS		
010-EAL-1	GREENHECK	AFA-801	EXHAUST	10,800	60	88	4	0.06	850	1,2,3		
010-OAL-1	GREENHECK	AFA-801	INTAKE	11,720	60	96	4	0.05	805	1,2,3		

- 1. = ALUMINUM BIRDSCREEN.
- 2. = EXTENDED SILL.
- 3. = KYNAR FINISH.

099-PH-1





GENERATOR

SEE PLANS FOR PIPE SIZE

UNION

6" DIRT LEG-

INSTALL FLEXIBLE GENERATOR CONNECTOR, FURNISHED BY

GENERATOR MANUFACTURER

TYPICAL

GAS CONNECTION DETAIL

V025, SIZE SHOWN ON H-DRAWING

PRESSURE REDUCING VALVE V709. COORDINATE FLOW RATE AND ALLOWABLE PRESSURE WITH

GAS UTILIZING EQUIPMENT

H103

INTERIOR MASONRY WALL WEATHER RESISTANT SEALANT, **FULL PERIMETER, TYP** INSULATION, IF SPECIFIED AS STAINLESS STEEL WALL **INSULATED PIPING** ESCUTCHEON. FASTEN WITH STAINLESS STEEL FASTENERS PASSING PIPE **CORE DRILL AS REQUIRED** FOR PIPE. MAX OVERSIZE SHALL BE 1/4" ON EACH SIDE-SEALANT

-STAINLESS STEEL FASTENER, TYP INSULATE ANY DUCTWORK BETWEEN WALL AND DAMPER PROVIDE WALL OPENING AS REQUIRED FOR UNDUCTED APPLICATIONS WITH DAMPERS, PROVIDE DUCT EXTENSION WEATHER RESISTANT CAULK, PAST DAMPER AND MIN 60% FREE **FULL PERIMETER** AREA STAINLESS STEEL HARDWARE WIRE CLOTH. MOUNT DAMPER **OPERATOR OUTSIDE OF ENCLOSURE DUCT, FOR LOCATIONS WHERE** DAMPER INDICATED, FASTEN DUCT EXTERNAL INSECT SCREEN TO PERIMETER OF DAMPER FRAME. IF SCHEDULED FOR LOCATIONS WITHOUT DAMPERS, **FASTEN DUCT TO WALL WITH DUCT** FLANGE ALONG TOP AND SIDES AND - ALUMINUM BIRDSCREEN TO ANGLE AT BOTTOM-SINGLE FLANGED DAMPER LOUVER, SIZE AS INDICATED WHERE INDICATED ON PLANS OR ON PLANS SCHEDULES. ACTUATOR FOR MOTOR OPERATED DAMPERS SHALL BE LOCATED OUTSIDE OF FLANGED FRAME OR EXTENDED THE AIRSTREAM SILL AS SCHEDULED 1/8" ALUMINUM ANGLE ALONG BOTTOM OF -MOUNTING HEIGHT AS INDICATED OPENING OF HIEGHT REQUIRED TO ALIGN 1" ON PLANS OR SCHEDULE ABOVE LOUVER DRAIN JAMB, PROVIDE **ALUMINUM SHEET COVER BETWEEN ANGLE** CLIP ANGLES, FULL LOUVER PERIMETER AND CLIP ANGLE TO ALLOW WATER TO

PIPE WALL PENETRATION DETAIL H945

TYPICAL LOUVER DETAIL H950

NOTE: ALL FASTENERS SHALL BE OF STAINLESS STEEL CONSTRUCTION

PIPING DETAIL H855

CITY OF WAUKESHA

WEST SIDE PUMP STATION CONSOLIDATION PLUMBING/HVAC STANDARD DETAILS: MADISON STREET PUMP STATION

SEAL PERIMETER WITH

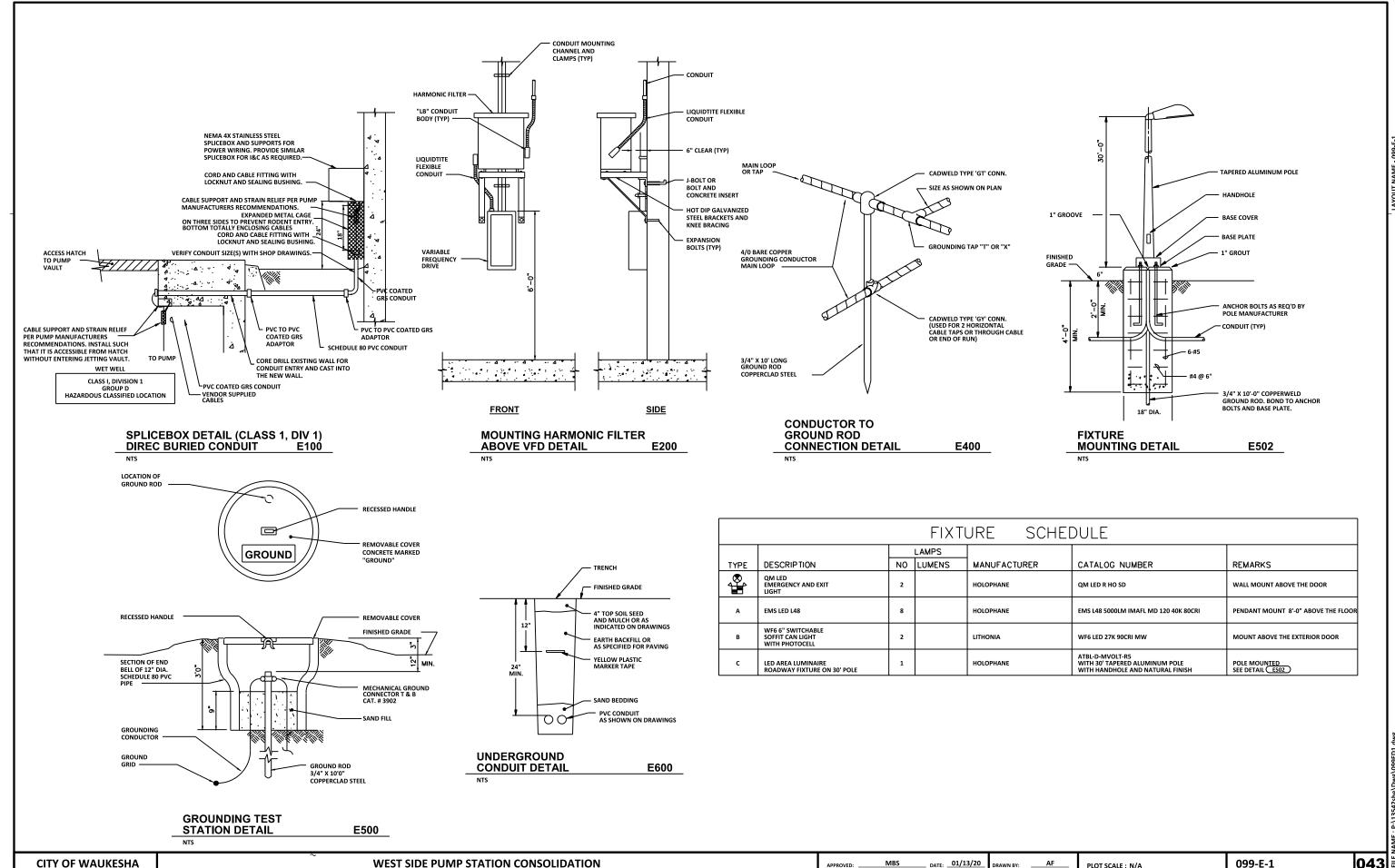
PLOT SCALE: N/A JLW PLOT DATE: 1/14/2020 9:54 AM

099-PH-2 PROJECT NO:

DATE: 01/13/20 DRAWN BY:

DRAIN FROM DUCT TO LOUVER-

DEPARTMENT OF PUBLIC WORKS



ELECTRICAL STANDARD DETAILS: MADISON STREET PUMP STATION

DEPARTMENT OF PUBLIC WORKS

APPROVED:

DRAWN BY:

CHECKED BY: ___

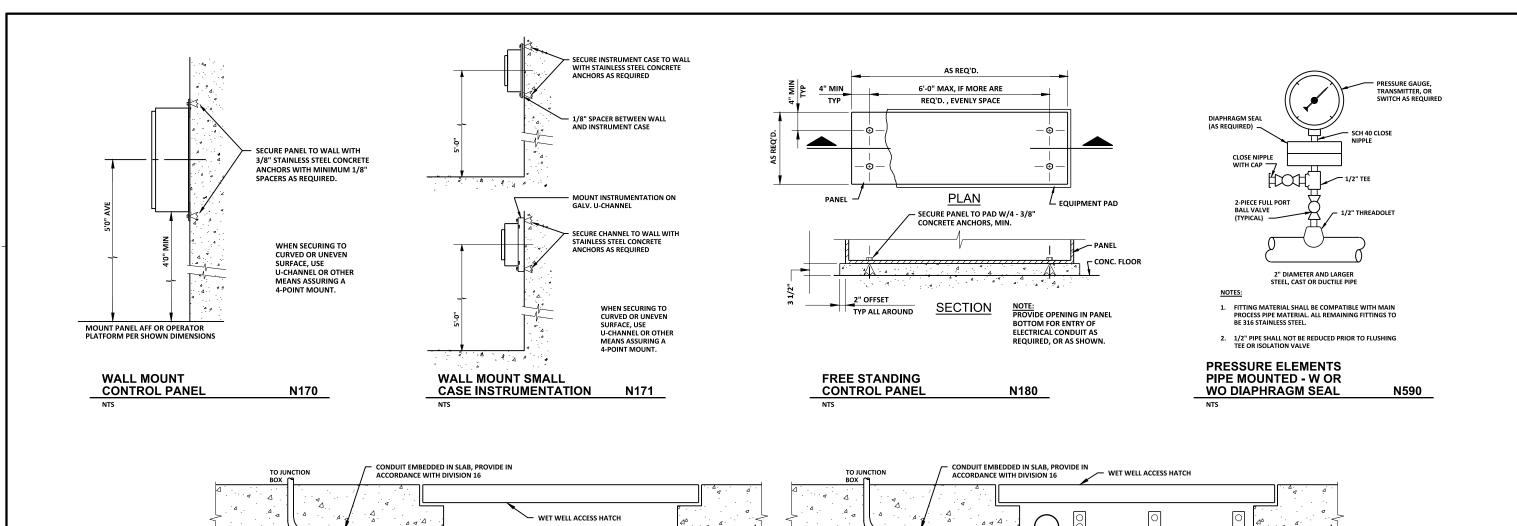
JAB

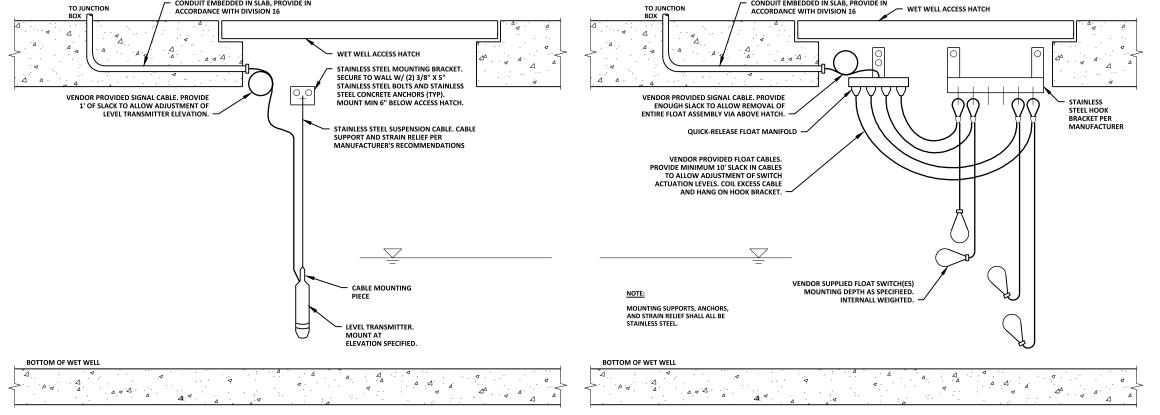
PLOT SCALE: N/A

PLOT DATE: 1/14/2020 9:54 AM

PROJECT NO:

2019 - WSPSC





CITY OF WAUKESHA DEPARTMENT OF PUBLIC WORKS

WEST SIDE PUMP STATION CONSOLIDATION **I&C STANDARD DETAILS: MADISON STREET PUMP STATION**

N266

DATE: 01/13/20 DRAWN BY: CHECKED BY: DWG

WITH HATCH ACCESS

BALL FLOATS **CABLE SUSPENSION**

> JTG PLOT SCALE: N/A

N269

PLOT DATE: 1/14/2020 9:54 AM

099-N-1

SUBMERSIBLE LEVEL TRANSMITTER