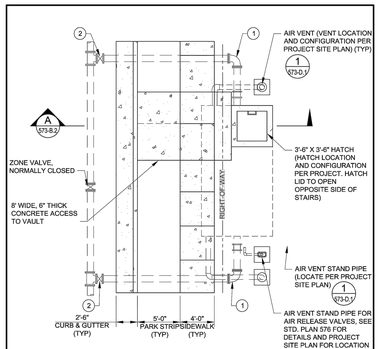
GENERAL NOTES

1. ALL WORK SHALL CONFORM TO PARK CITY DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS, AND STANDARD DRAWINGS.
2. SUBMIT SHOP DRAWINGS TO DESIGN ENGINEER AND CITY ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. INCLUDE MECHANICAL, STRUCTURAL, ELECTRICAL AND INSTRUMENT DRAWINGS IDENTIFYING CONDUIT, CONDUCTOR, CABLE, SIZE AND ROUTINGS FOR POWER, GROUNDING, INSTRUMENTATION, AND CONTROLS, OPENINGS, PIPE, VALVES, HATCH, AND ALL VAULT COMPONENTS.
3. VAULT BACKFILL: STRUCTURAL FILL MATERIAL COMPACTED TO 95% MINIMUM OF MODIFIED PROCTOR DENSITY.
4. DUCTILE IRON PIPE, FITTINGS, COUPLERS, FLANGES, ETC. SHALL BE IN ACCORDANCE WITH AWWA C153, C111, AND C110 AND RATED FOR A MINIMUM 250 PSI WORKING PRESSURE.
5. FLANGED JOINTS: 125 LB FLANGES, ANSI/AWWA C115/A21.15. "FULL FACE FLANGE-TYTE" GASKET OR "RING FLANGE-TYTE" GASKET (OR PRE-APPROVED EQUAL). GASKETS TO BE HIGH-PERFORMANCE TYPE, 1/8" THICK, AND HAVE AT LEAST (3) BULB TYPE RINGS MOLDED INTO BOTH GASKET FACES, ANSI/AWWA C110/A21.11.
6. FITTINGS: FULL BODY AWWA C110. NO COMPACT FITTINGS. DOMESTIC "MADE IN USA".
7. DUCTILE IRON PIPE AND FITTINGS: UNCOATED. PRIME AND PAINT WITH NSF APPROVED HIGH SOLIDS EPOXY PAINT, TNEMEC POTA-POX N140 OR PRE-APPROVED EQUAL. HIGH PRESSURE SIDE, LIGHT BLUE. LOW PRESSURE SIDE, OFF WHITE.
8. ALL VALVES INSIDE VAULT SHALL BE RATED FOR 250 PSI WORKING PRESSURE, OR HIGHER IF REQUIRED FOR PROJECT.
9. VAULT SHALL BE PRECAST CONCRETE. APPROVAL MUST BE GIVEN TO USE CAST IN PLACE CONCRETE. VAULT SHALL BE DESIGNED FOR HS-20 LOADING. THE LOCATION OF THE PRECAST JOINTS MUST BE APPROVED. SITE SPECIFIC APPROVAL REQUIRED.
10. SEAL ALL JOINTS WITH PREFORMED FLEXIBLE SEALANT CONFORMING TO ASTM C990, AND WRAP WITH EXTERNAL JOINT SEALANT MEETING ASTM C877. FILL JOINTS INSIDE VAULT WITH CAULK OR GROUT.
11. PROVIDE (2) 8 HR DAYS FOR TESTING, STARTUP, AND TRAINING FOR PRV VALVES WITH MANUFACTURER REPRESENTATIVE.
12. SEAL ALL VAULT PENETRATIONS WITH HYDROPHILIC NON-SHRINK GROUT.

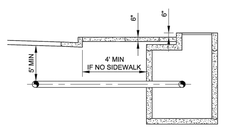
PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-A



VAULT LOCATION PLAN
NTS

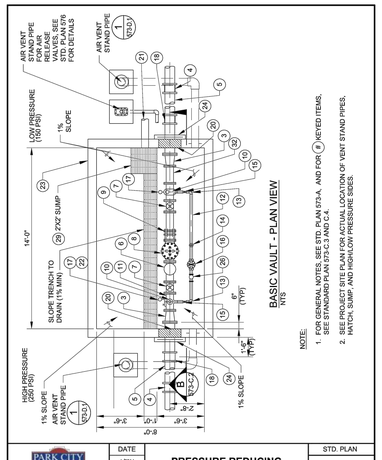
NOTES:
1. FOR GENERAL NOTES, SEE STD. PLAN 573-A, AND FOR # KEYED ITEMS, SEE STD. PLAN 573-C.3 AND C.4.
2. SITE SPECIFIC APPROVAL REQUIRED. NEW EASEMENTS WILL BE REQUIRED IF VAULT IS LOCATED OUTSIDE OF PROPERTY LINE.

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-B.1



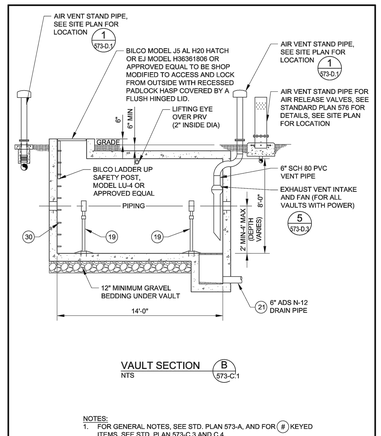
VAULT SECTION A 573-B.1
NTS

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-B.2



NOTE:
1. FOR GENERAL NOTES, SEE STD. PLAN 573-A, AND FOR # KEYED ITEMS, SEE STANDARD PLAN 573-C.3 AND C.4.
2. SEE PROJECT SITE PLAN FOR ACTUAL LOCATION OF VENT STAND PIPES. WITH SAME AIR RELEASE VALVES.

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-C.1



VAULT SECTION B 573-C.1
NTS

NOTES:
1. FOR GENERAL NOTES, SEE STD. PLAN 573-A, AND FOR # KEYED ITEMS, SEE STD. PLAN 573-C.3 AND C.4.

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-C.2

MATERIAL LIST

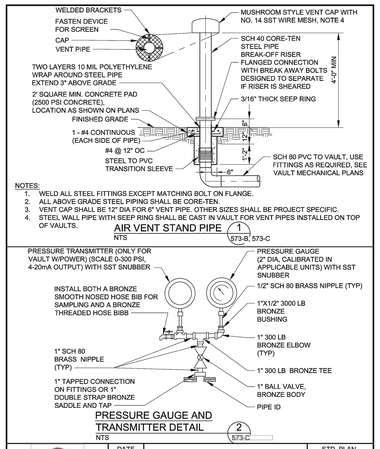
ITEM	PRESSURE REDUCING VALVE VAULT
1	INSTALL 8" WATER MAIN WITH 90° DI BENDS WITH RETAINER GLANDS AND THRUST BLOCKS
2	INSTALL 8" RESILIENT SEAT VALVE, FL X MJ, W/ TEE AND RETAINER GLANDS AND TRUST BLOCKS ON EXISTING WATER MAIN
3	8"X8" DI REDUCER FL X FL
4	8" DI WATER MAIN, USE FLEXIBLE OR DUCTILE IRON MJ SLEEVES (POWERSEAL MODEL 3506 POWERMAX OR EQUAL) AS NECESSARY TO LEVEL EXISTING LINES
5	8" DI PIPE
6	6" CLA-VAL X 43 H (H STYLE STRAINER), FLANGED ENDS, 10 MESH SCREEN, CAGE SUPPORT, AND O-RING
7	6" RESILIENT SEAT VALVE, FL X FL W/HAND WHEEL AND POSITION INDICATOR
8	6" PRESSURE REDUCING VALVE, CLA-VAL MODEL 92-01, STRAINERS, FLOW CONTROL SHUT OFF COCKS, FLOW STABILIZER, STAINLESS STEEL TRIM, FLANGE X FLANGE, AND E-FLOW METER MODEL X144 WITH 4-20mA OUTPUT TO READ AT SCADA (SUBMITTAL REQUIRED, PRESSURE SUSTAINING VALVE IS REQUIRED UNLESS NOTED OTHERWISE)
9	6" DISMANTLING JOINT, ROMAC DJ 400, OR EQUAL.
10	1" COMBINATION AIR VALVE WITH BALL VALVE ISOLATION, CLA-VAL MODEL 361-CAV564.3 OR EQUAL. VENT ABOVE GRADE. OBTAIN OWNER APPROVAL FOR VENT PIPE ROUTING. SEE STD. PLAN 576 FOR DETAILS (SIMILAR).
11	6" X 6" X 2" DI TEE FL X FL X IP THREAD WITH TAP FOR PRESSURE GAUGE (ITEM 17), AND HOSE BIBBS (ITEM 22), AND AIR VALVE (ITEM 10)
12	2" BRASS OR RIGID COPPER PIPE, SCHEDULE 40, THREADED, TYPICAL
13	2" BRONZE 90° ELBOW, THREADED
14	2" BRONZE UNION COUPLING, THREADED
15	2" THREADED BRONZE BALL VALVE WITH HANDLE, 300 PSI, MUELLER 300
16	2" PRESSURE REDUCING VALVE CLA-VAL 92-01, STRAINERS, FLOW CONTROL SHUT OFF COCKS, FLOW STABILIZER, STAINLESS STEEL TRIM, THD X THD, AND E-FLOW METER MODEL X144 WITH 4-20mA OUTPUT TO READ AT SCADA (SUBMITTAL REQUIRED, PRESSURE SUSTAINING VALVE IS REQUIRED UNLESS NOTED OTHERWISE)
17	2" LIQUID FILLED PRESSURE GAUGE, GRADE B, UPSTREAM (0-300 PSI) DOWNSTREAM (0-200 PSI), THREADED, WITH STEM VALVE - SEE STD. PLAN 573-D.1
18	8" MJ SOLID SLEEVE, MEGA-LUG RESTRAINTS WITH COR-TEN TEE BOLTS

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-C.3

MATERIAL LIST (CON'T)

ITEM	PRESSURE REDUCING VALVE VAULT
19	2" STEEL PIPE SUPPORT STAND, ADJUSTABLE (2 REQUIRED ON 6" PIPE SYSTEM, 2 REQUIRED ON 2" PIPE SYSTEM), SEE STD. PLAN 578
20	CORE DRILL OPENING WITH LINK-SEAL PIPE-TO-WALL SEAL. TYPICAL ON ALL OPENING. FILL OUTSIDE OPENINGS WITH NON-SHRINK GROUT AND CAULK
21	DRAIN SUMP, PIPE TO DAYLIGHT WITH DRAIN PIPE AND #4 SST RODENT PROTECTION SCREEN ON END OF PIPE. ROUTE AS SHOWN ON SITE PLAN. IF NO PIPE-TO-DAYLIGHT OPTION IS AVAILABLE, INSTALL A SUMP PUMP. SEE STD. PLAN 573-D.2
22	3/4" HOSE BIBBS, I.P. THREAD - SEE STD. PLAN 573-D.1
23	VAULT IN ACCORDANCE WITH 573-A AND 573-B A. PRECAST CONCRETE VAULT RATED FOR HS-20 LOADING. MAY BE CAST IN PLACE PER CITY APPROVAL. PROVIDE STAMPED STRUCTURAL DRAWINGS B. WATERPROOF OUTSIDE WALLS AND TOP SLAB PER IBC CODE FOR BURIED FOUNDATIONS
24	MECHANICAL JOINT DUCTILE IRON RETAINER GLAND WITH CONCRETE THRUST BLOCK, REINFORCE CONCRETE WITH (4) #4 EACH SIDE OF PIPE.
25	6"X6"X3" DI TEE FLANGE X FLANGE X FLANGE
26	2" CLA-VAC X 43H (H STYLE STRAINER), FLANGED ENDS, 10 MESH SST SCREEN, CAGE SUPPORT, AND O-RING
27	3" PRESSURE RELIEF VALVE, CLA-VAL MODEL 50A-01 BKCX WITH MOUNTED LIMIT SWITCH OR MICRO SWITCH WITH SCADA CONNECT FOR "OPEN" ALARM CONDITION, SEE STD. PLAN 573-D.2
28	IN-LINE GAUGE PRESSURE TRANSMITTER, ROSEMOUNT MODEL 3051TG 900 PSI ASSEMBLED TO INTEGRAL, 2-VALVE, ROSEMOUNT 306 MANIFOLD. SEE STD. PLAN 573-D.1, 4-20 MA ANALOG
29	FRP GRATING, 1-1/2" THICK MIN. AND RATED FOR 300 LB/FT PEDESTRIAN TRAFFIC. INSIDE TRENCH WIDTH TO BE 8" MINIMUM, AND 2-1/2" DEEP.
30	VAULT LADDER, SEE DETAIL 7 ON 573-D.4
31	SUMP PUMP: 2" SUMP PUMP, TSURUMI MODEL HS22.4S-62 OR EQUAL. SUMP PUMP REQUIRED IF DRAIN TO DAYLIGHT NOT AVAILABLE, SEE STD. PLAN 573-D.2
32	6" DI PIPE. IF VAULT HAS POWER, THIS ITEM SHALL BE REPLACED WITH ITEMS 25 AND 27.

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-C.4

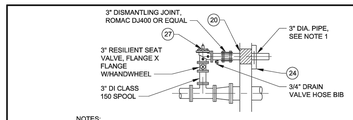


NOTES:
1. WELD ALL STEEL FITTINGS EXCEPT MATCHING BOLT ON FLANGE.
2. ALL ABOVE GRADE STEEL PIPING SHALL BE CORE-TEN.
3. VENT CAP SHALL BE 12" DIA FOR 6" VENT PIPE. OTHER SIZES SHALL BE PROJECT SPECIFIC.
4. STEEL WALL PIPE WITH SEEP RING SHALL BE CAST IN VAULT FOR VENT PIPES INSTALLED ON TOP OF VAULTS.

AIR VENT STAND PIPE 1 573-B, 573-C
NTS

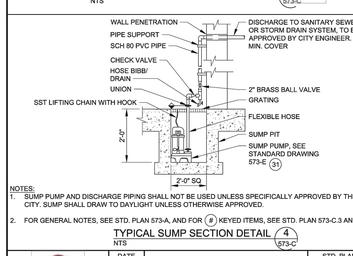
PRESSURE GAUGE AND TRANSMITTER DETAIL 2 573-C
NTS

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-D.1



NOTES:
1. ROUTE TO NEAREST APPROVED DISCHARGE LOCATION WITH 12" AIR GAP AND #4 SST MESH SCREEN BETWEEN FLANGES AND EROSION CONTROL. ALL FITTINGS MUST BE FLANGED OR RESTRAINED. 5' MIN COVER.
2. FOR GENERAL NOTES, SEE STD. PLAN 573-A, AND FOR # KEYED ITEMS, SEE STD. PLAN 573-C.3 AND C.4

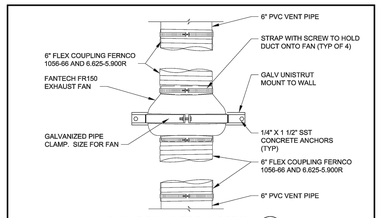
3" PRESSURE RELIEF VALVE DETAIL 3 573-C
NTS



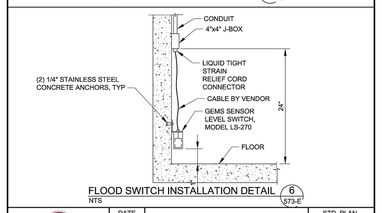
NOTES:
1. SUMP PUMP AND DISCHARGE PIPING SHALL NOT BE USED UNLESS SPECIFICALLY APPROVED BY THE CITY. SUMP SHALL DRAW TO DAYLIGHT UNLESS OTHERWISE APPROVED.
2. FOR GENERAL NOTES, SEE STD. PLAN 573-A, AND FOR # KEYED ITEMS, SEE STD. PLAN 573-C.3 AND C.4

TYPICAL SUMP SECTION DETAIL 4 573-C
NTS

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-D.2

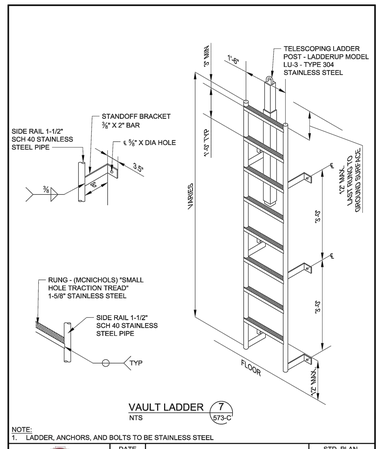


IN-LINE EXHAUST FAN DETAIL 5 573-C, 573-E
NTS



FLOOD SWITCH INSTALLATION DETAIL 6 573-E
NTS

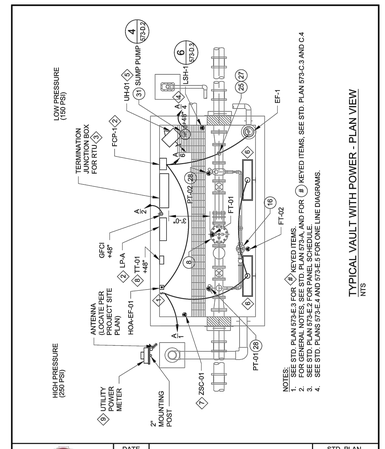
PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-D.3



VAULT LADDER 7 573-C
NTS

NOTE:
1. LADDER, ANCHORS, AND BOLTS TO BE STAINLESS STEEL

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-D.4



NOTES:
1. FOR GENERAL NOTES, SEE STD. PLAN 573-A.
2. FOR GENERAL NOTES, SEE STD. PLAN 573-A, AND FOR # KEYED ITEMS, SEE STD. PLAN 573-C.3 AND C.4.
3. SEE STD. PLANS 573-E.4 AND 573-E.5 FOR ONE LINE DIAGRAMS.
4. SEE STD. PLANS 573-E.4 AND 573-E.5 FOR ONE LINE DIAGRAMS.

TYPICAL VAULT WITH POWER - PLAN VIEW
NTS

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-E.1

PANEL SCHEDULE LP-A

LOCATION: IN VAULT
MFGR: CULTER HAMMER OR EQUAL
100 AMPS
VOLTS: 120/240
DIMENSIONS: SIZE BY CONTRACTOR
TYPE: PANELBOARD
M.L.O.
PHASE: 1
MOUNTING: SURFACE
NEMA: 3R
50 M.C.B.
WIRES: 3
FEED: TOP
10000 A.I.C.

BRKR A	BRKR P	DESCRIPTION	CONT. WATTS	N-CONT WATTS	NO	A CONT.	A N-CONT.	B CONT.	B N-CONT.	NO	N-CONT WATTS	CONT. WATTS	DESCRIPTION	BRKR A	BRKR P
20	1	LIGHTS		148	1	0	328			2	180		OUTLETS	15	1
20	1	RTU		500	3			0	1246	4	746		SUMP PUMP OUTLET	20	1
20	2	UNIT HEATER (UH-1)	1300		5	1300	560			6	560		FAN CONTROL PANEL	20	1
20	-	-	1300		7			1300	0	8			SPARE	20	1
20	1	SPARE			9	0	0			10			SPARE	20	1
20	1	SPARE			11			0	0	12			SPACE		
		SPACE			13	0	0			14			SPACE		
		SPACE			15			0	0	16			SPACE		
		SPACE			17					18			SPACE		
TOTAL WATTS:			2600	648		1,300	888	1,300	1246		1,486		0		

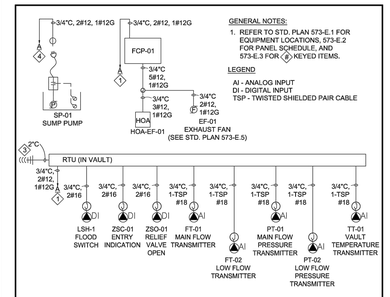
CONTINUOUS LOAD: 2600
CONTINUOUS LOAD *125%: 3,250
NON-CONTINUOUS LOAD: 2,134
DESIGN WATTS: 5,384
MIN. RATING (AMPS): 15

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-E.2

PANEL NOTE:

1. INSTALL WEATHERPROOF LIGHT SWITCH AND NEMA 4X HOA CONTROL BOX IN HATCH OPENING ABOUT 8" FROM TOP OF CONCRETE.
2. MAINTAIN NATIONAL ELECTRICAL CODE REQUIRED CLEARANCE AND WORKING SPACE AROUND PANELS.
3. COORDINATE WITH PCMC FOR RTU PANEL, ANTENNA, AND CABLE REQUIREMENTS. CONTRACTOR TO FURNISH AND INSTALL RTU PANEL, ANTENNA, ANTENNA MAST, CONDUIT, CONDUCTOR, AND CABLE WITH WIRING TERMINATIONS INSIDE THE RTU PANEL. CONTRACTOR TO SIZE RTU RELATED EQUIPMENT FOR 11 I/O POINTS INCLUDING 3 SPARES. (2 FLOW METERS, 2 PRESSURE TRANSDUCERS, 1 TEMPERATURE SENSOR, 1 FLOOD ALARM, 1 ENTRY SECURITY ALARM, 1 PRESSURE RELIEF OPEN ALARM, 2 SPARE DIGITAL INPUTS AND 1 SPARE ANALOG INPUT). PCMC WILL PROVIDE AND INSTALL A PRE-ASSEMBLED AND PRE-WIRED BACKPANEL IN RTU PANEL AND PROVIDE SCADA PROGRAMMING.
4. SUMP PUMP RECEPTACLE TO BE A 20 AMP, SIMPLEX, NON-GFCI OUTLET.
5. UNIT HEATER TO BE A 2600W, 240V, COMFORT HEATER WITH FAN AND INTEGRAL THERMOSTAT CHROMALOX LUH02 21 34 40 1 OR EQUAL. MOUNT ON CEILING USING CEILING MOUNT KIT. LOCATE ON OPPOSITE SIDE OF VAULT FROM HATCH DAYTON MODEL 24U58.
6. GASKETED AND ENCLOSED INDUSTRIAL FIXTURE, FIBERGLASS HOUSING, WET LOCATION TWO LAMP FLUORESCEINT, 120 VOLT, INSTANT START ELECTRONIC BALLAST METALUX YT3-232DR-120V-EB81-WL-U OR EQUAL. MOUNT FIXTURE ON WALL AT ABOUT 7 FEET ABOVE FINISHED FLOOR.
7. NEMA 4 HEAVY-DUTY LIMIT SWITCH WITH 1NO 1NC CONTACT 5A 120 VAC. SQUARE D COMPANY, CLASS 9007 OR EQUAL.
8. ROOM TEMPERATURE DISPLAY AND 4-20 mA TRANSMITTER WITH 100 OHM PLATINUM RTD. DEVAR MODEL D-RTTI-0024.
9. INSTALL UTILITY POWER METER WITH 50 AMP BREAKER ON BACK TO BACK UNISTRUT TO 2" GALVANIZED STEEL POLE ACCORDING TO UTILITY COMPANY STANDARDS.

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-E.3

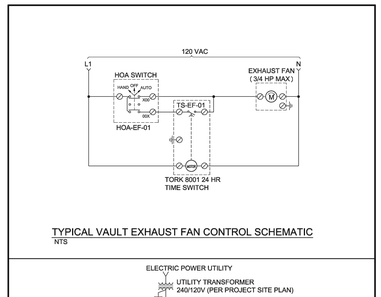


GENERAL NOTES:
1. REFER TO STD. PLAN 573-E.1 FOR EQUIPMENT LOCATIONS, 573-E.2 FOR PANEL SCHEDULE, AND 573-E.3 FOR # KEYED ITEMS.

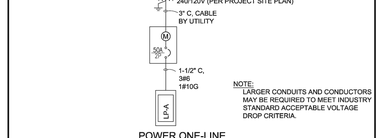
LEGEND
AI - ANALOG INPUT
DI - DIGITAL INPUT
TSP - TWISTED SHIELDED PAIR CABLE

CONTROL ONE-LINE DIAGRAM

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-E.4



TYPICAL VAULT EXHAUST FAN CONTROL SCHEMATIC
NTS



NOTE:
LARGER CONDUITS AND CONDUCTORS MAY BE REQUIRED TO MEET INDUSTRY STANDARD ACCEPTABLE VOLTAGE DROP CRITERIA.

POWER ONE-LINE
NTS

PARK CITY MUNICIPAL CORPORATION WATER	DATE 4/2014 REV. 0	PRESSURE REDUCING VALVE VAULT	STD. PLAN 573-E.5

NOTES:

1. PCMC PRV details provided are for reference only. A PRV with higher pressure capacity is required along with a surge protection valve.

PROFESSIONAL ENGINEER No. 12275305 MARTIN CONNOR DINSMORE 07/13/22 STATE OF UTAH

(435) 649-9467
Alliance Engineering Inc
CONSULTING ENGINEERS LAND PLANNERS SURVEYORS
323 Main Street P.O. Box 2664 Park City, Utah 84060-2664

STAFF:
MICHAEL DEMKOWICZ
CONNOR DINSMORE

DATE: 07/13/2022

BUILDING PERMIT SET
DETAILS 4/4
SOMMET BLANC DEVELOPMENT

FOR: SOMMET BLANC RESIDENCES I, LLC
JOB NO.: 1-11-18
FILE: X:\Empire\dwg\B2 East Design\B2 East-Civil.dwg

SHEET C.20