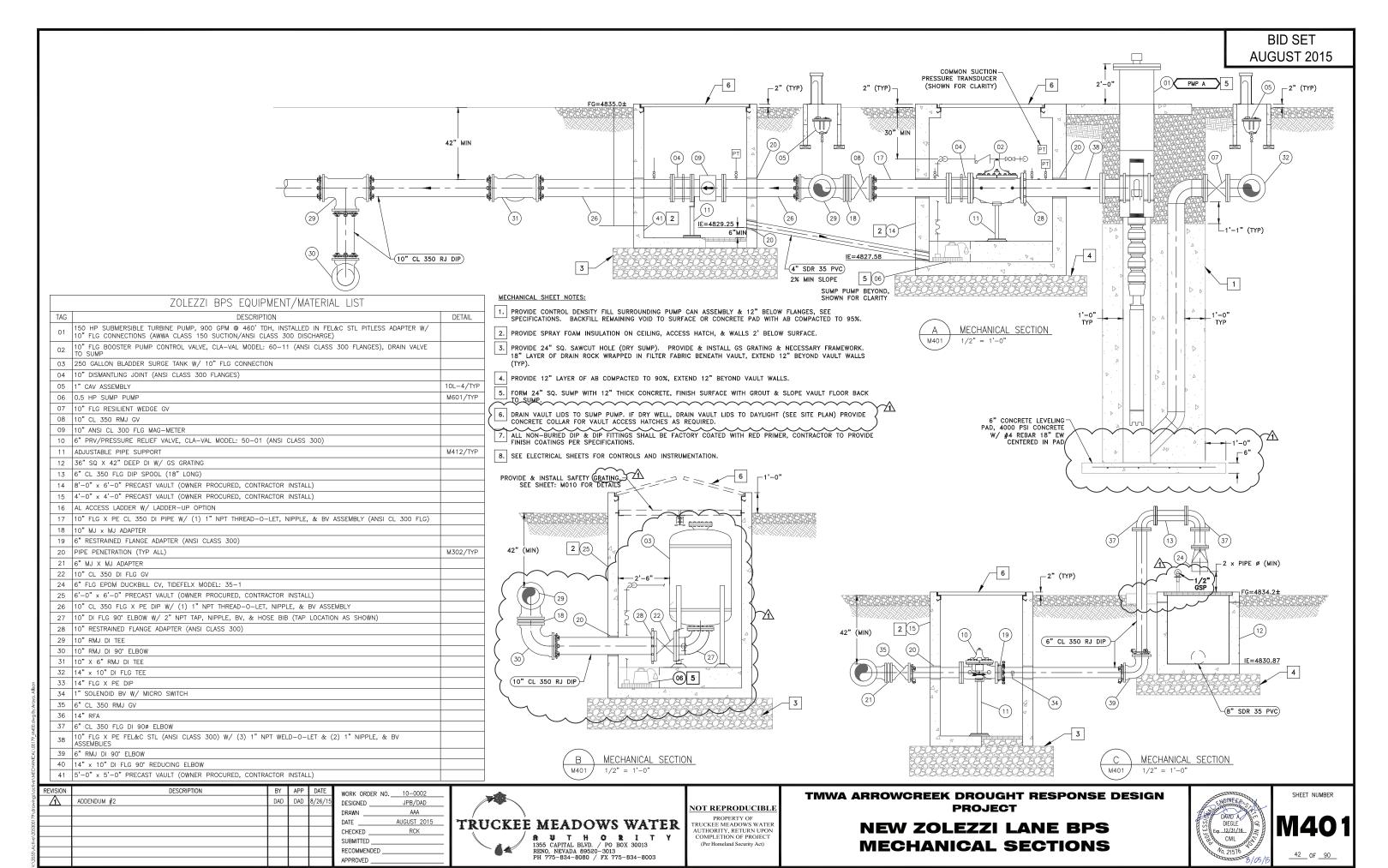
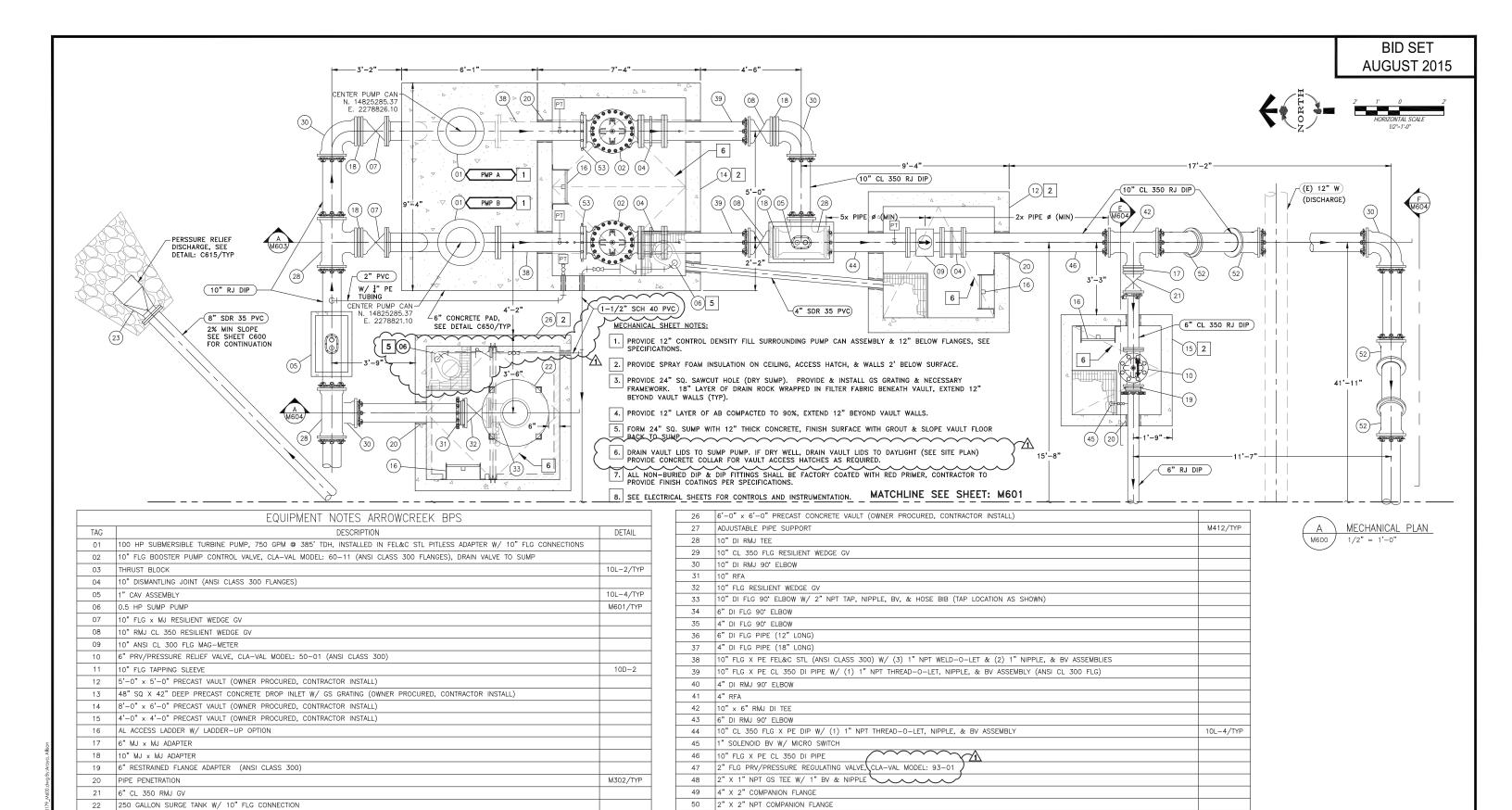


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25 4" PRV/PRESSURE RELIEF VALVE, CLA-VAL MODEL: 50-01

12" X 10" FLG TAPPING SLEEVE

6" FLG EPDM DUCKBILL CV (MATCH DIAMETER TO CONNECTING PIPE SIZE)

 WORK ORDER NO.
 10-0002

 DESIGNED
 JPB/DAD

 DRAWN
 AAA

 DATE
 AUGUST 2015

 CHECKED
 RCK

 SUBMITTED
 RECOMMENDED

 APPROVED
 APPROVED



10D-2

NOT REPRODUCIBLE PROPERTY OF TRUCKEE MEADOWS WATER AUTHORITY, RETURN UPON COMPLETION OF PROJECT

53 10" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300)

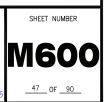
2" NPT COUPLING

51

TMWA ARROWCREEK DROUGHT RESPONSE DESIGN PROJECT

ARROWCREEK BPS MECHANICAL PLAN 1



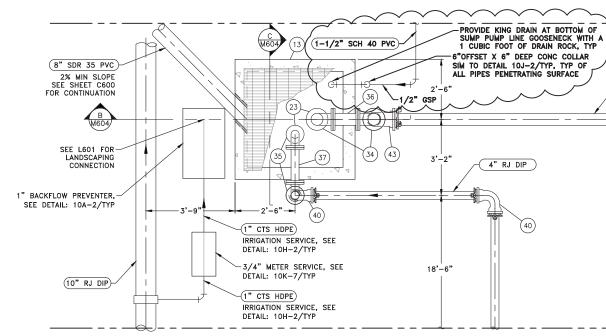


23

24

(E) 12" W (DISCHARGE)

MATCHLINE SEE SHEET: M600



6" RJ DIP

MECHANICAL SHEET NOTES:

1. PROVIDE 12" CONTROL DENSITY FILL SURROUNDING PUMP CAN ASSEMBLY & 12" BELOW FLANGES, SEE SPECIFICATIONS.

2. PROVIDE SPRAY FOAM INSULATION ON CEILING, ACCESS HATCH, & WALLS 2' BELOW SURFACE.

3. PROVIDE 24" SQ. SAWCUT HOLE (DRY SUMP). PROVIDE & INSTALL GS GRATING & NECESSARY FRAMEWORK. 18" LAYER OF DRAIN ROCK WRAPPED IN FILTER FABRIC BENEATH VAULT, EXTEND 12" BEYOND VAULT WALLS (TYP).

4. PROVIDE 12" LAYER OF AB COMPACTED TO 90%, EXTEND 12" BEYOND VAULT WALLS.

5. FORM 24" SQ. SUMP WITH 12" THICK CONCRETE, FINISH SURFACE WITH GROUT & SLOPE VAULT FLOOR

6. DRAIN VAULT LIDS TO SUMP PUMP. IF DRY WELL, DRAIN VAULT LIDS TO DAYLIGHT (SEE SITE PLAN) PROVIDE CONCRETE COLLAR FOR VAULT ACCESS HATCHES AS REQUIRED.

7. ALL NON-BURIED DIP & DIP FITTINGS SHALL BE FACTORY COATED WITH RED PRIMER, CONTRACTOR TO PROVIDE FINISH COATINGS PER SPECIFICATIONS.

8. SEE ELECTRICAL SHEETS FOR CONTROLS AND INSTRUMENTATION.

MATCHLINE SEE SHEET: M602



MECHANICAL PLAN
1/2" = 1'-0"

	EQUIPMENT NOTES ARROWCREEK BPS	
TAG	DESCRIPTION	DETAIL
01	100 HP SUBMERSIBLE TURBINE PUMP, 750 GPM @ 385' TDH, INSTALLED IN FEL&C STL PITLESS ADAPTER W/ 10" FLG CONNECTIONS	
02	10" FLG BOOSTER PUMP CONTROL VALVE, CLA-VAL MODEL: 60-11 (ANSI CLASS 300 FLANGES), DRAIN VALVE TO SUMP	
03	THRUST BLOCK	10L-2/TYP
04	10" DISMANTLING JOINT (ANSI CLASS 300 FLANGES)	
05	1" CAV ASSEMBLY	10L-4/TYP
06	0.5 HP SUMP PUMP	M601/TYP
07	10" FLG x MJ RESILIENT WEDGE GV	
08	10" RMJ CL 350 RESILIENT WEDGE GV	
09	10" ANSI CL 300 FLG MAG-METER	
10	6" PRV/PRESSURE RELIEF VALVE, CLA-VAL MODEL: 50-01 (ANSI CLASS 300)	
11	10" FLG TAPPING SLEEVE	10D-2
12	5'-0" x 5'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL)	
13	48" SQ X 42" DEEP PRECAST CONCRETE DROP INLET W/ GS GRATING (OWNER PROCURED, CONTRACTOR INSTALL)	
14	8'-0" x 6'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL)	
15	4'-0" x 4'-0" precast vault (owner procured, contractor install)	
16	AL ACCESS LADDER W/ LADDER-UP OPTION	
17	6" MJ x MJ ADAPTER	
18	10" MJ x MJ ADAPTER	
19	6" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300)	
20	PIPE PENETRATION	M302/TYP
21	6" CL 350 RMJ GV	
22	250 GALLON SURGE TANK W/ 10" FLG CONNECTION	
23	6" FLG EPDM DUCKBILL CV (MATCH DIAMETER TO CONNECTING PIPE SIZE)	
24	12" X 10" FLG TAPPING SLEEVE	10D-2
25	4" PRV/PRESSURE RELIEF VALVE, CLA-VAL MODEL: 50-01	

26	6'-0" x 6'-0" precast concrete vault (owner procured, contractor install)	
27	ADJUSTABLE PIPE SUPPORT	M412/TYF
28	10" DI RMJ TEE	
29	10" CL 350 FLG RESILIENT WEDGE GV	
30	10" DI RMJ 90° ELBOW	
31	10" RFA	
32	10" FLG RESILIENT WEDGE GV	
33	10" DI FLG 90" ELBOW W/ 2" NPT TAP, NIPPLE, BV, & HOSE BIB (TAP LOCATION AS SHOWN)	
34	6" DI FLG 90" ELBOW	
35	4" DI FLG 90' ELBOW	
36	6" DI FLG PIPE (12" LONG)	
37	4" DI FLG PIPE (18" LONG)	
38	10" FLG X PE FEL&C STL (ANSI CLASS 300) W/ (3) 1" NPT WELD-O-LET & (2) 1" NIPPLE, & BV ASSEMBLIES	
39	10" FLG X PE CL 350 DI PIPE W/ (1) 1" NPT THREAD-O-LET, NIPPLE, & BY ASSEMBLY (ANSI CL 300 FLG)	
40	4" DI RMJ 90' ELBOW	
41	4" RFA	
42	10" x 6" RMJ DI TEE	
43	6" DI RMJ 90' ELBOW	
44	10" CL 350 FLG X PE DIP W/ (1) 1" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY	10L-4/TY
45	1" SOLENOID BV W/ MICRO SWITCH	
46	10" FLG X PE CL 350 DI PIPE	
47	2" FLG PRV/PRESSURE REGULATING VALVE. (CLA-VAL MODEL: 93-01	
48	2" X 1" NPT GS TEE W/ 1" BV & NIPPLE	
49	4" X 2" COMPANION FLANGE	
50	2" X 2" NPT COMPANION FLANGE	
51	2" NPT COUPLING	
52	10" DI FLG 45' ELBOW	
53	10" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300)	

REVISION	DESCRIPTION	BY	APP	DATE	Г
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WORK ORDER NO. 10-0002

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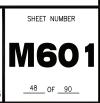


NOT REPRODUCIBLE
PROPERTY OF
TRUCKEE MEADOWS WATER
AUTHORITY, RETURN UPON
COMPLETION OF PROJECT
(Per Homeland Security Act)

TMWA ARROWCREEK DROUGHT RESPONSE DESIGN PROJECT

ARROWCREEK BPS MECHANICAL PLAN 2





	EQUIPMENT NOTES ARROWCREEK BPS	
TAG	DESCRIPTION	DETAIL
01	100 HP SUBMERSIBLE TURBINE PUMP, 750 GPM @ 385' TDH, INSTALLED IN FEL&C STL PITLESS ADAPTER W/ 10" FLG CONNECTIONS	
02	10" FLG BOOSTER PUMP CONTROL VALVE, CLA-VAL MODEL: 60-11 (ANSI CLASS 300 FLANGES), DRAIN VALVE TO SUMP	
03	THRUST BLOCK	10L-2/TYP
04	10" DISMANTLING JOINT (ANSI CLASS 300 FLANGES)	
05	1" CAV ASSEMBLY	10L-4/TYP
06	0.5 HP SUMP PUMP	M601/TYP
07	10" FLG x MJ RESILIENT WEDGE GV	
08	10" RMJ CL 350 RESILIENT WEDGE GV	
09	10" ANSI CL 300 FLG MAG-METER	
10	6" PRV/PRESSURE RELIEF VALVE, CLA-VAL MODEL: 50-01 (ANSI CLASS 300)	
11	10" FLG TAPPING SLEEVE	10D-2
12	5'-0" x 5'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL)	
13	48" SQ X 42" DEEP PRECAST CONCRETE DROP INLET W/ GS GRATING (OWNER PROCURED, CONTRACTOR INSTALL)	
14	8'-0" x 6'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL)	
15	4'-0" x 4'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL)	
16	AL ACCESS LADDER W/ LADDER-UP OPTION	
17	6" MJ $ imes$ MJ ADAPTER	
18	10" MJ x MJ ADAPTER	
19	6" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300)	
20	PIPE PENETRATION	M302/TYP
21	6" CL 350 RMJ GV	
22	250 GALLON SURGE TANK W/ 10" FLG CONNECTION	
23	6" FLG EPDM DUCKBILL CY (MATCH DIAMETER TO CONNECTING PIPE SIZE)	
24	12" X 10" FLG TAPPING SLEEVE	10D-2
25	4" PRV/PRESSURE RELIEF VALVE, CLA-VAL MODEL: 50-01	

WORK ORDER NO._

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AUGUST 2015

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TRUCKEE MEADOWS WATER

1355 CAPITAL BLVD. / PO BOX 30013 REMO. NEVADA 89650-3013 PH 775-834-8080 / FX 775-834-8003

26	6'-0" x 6'-0" PRECAST CONCRETE VAULT (OWNER PROCURED, CONTRACTOR INSTALL)	
27	ADJUSTABLE PIPE SUPPORT	M412/TYP
28	10" DI RMJ TEE	
29	10" CL 350 FLG RESILIENT WEDGE GV	
30	10" DI RMJ 90' ELBOW	
31	10" RFA	
32	10" FLG RESILIENT WEDGE GV	
33	10" DI FLG 90" ELBOW W/ 2" NPT TAP, NIPPLE, BV, & HOSE BIB (TAP LOCATION AS SHOWN)	
34	6" DI FLG 90' ELBOW	
35	4" DI FLG 90' ELBOW	
36	6" DI FLG PIPE (12" LONG)	
37	4" DI FLG PIPE (18" LONG)	
38	10" FLG X PE FEL&C STL (ANSI CLASS 300) W/ (3) 1" NPT WELD-O-LET & (2) 1" NIPPLE, & BV ASSEMBLIES	
39	10" FLG X PE CL 350 DI PIPE W/ (1) 1" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY (ANSI CL 300 FLG)	
40	4" DI RMJ 90' ELBOW	
41	4" RFA	
42	10" x 6" RMJ DI TEE	
43	6" DI RMJ 90' ELBOW	
44	10" CL 350 FLG X PE DIP W/ (1) 1" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY	10L-4/TYP
45	1" SOLENOID BV W/ MICRO SWITCH	
46	10" FLG X PE CL 350 DI PIPE	
47	2" FLG PRV/PRESSURE REGULATING VALVE. CLA-VAL MODEL: 93-01	
48	2" X 1" NPT GS TEE W/ 1" BV & NIPPLE	
49	4" X 2" COMPANION FLANGE	
50	2" X 2" NPT COMPANION FLANGE	
51	2" NPT COUPLING	
52	10" DI FLG 45' ELBOW	
53	10" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300)	

TMWA ARROWCREEK DROUGHT RESPONSE DESIGN

PROJECT

ARROWCREEK BPS

MECHANICAL PLAN 3

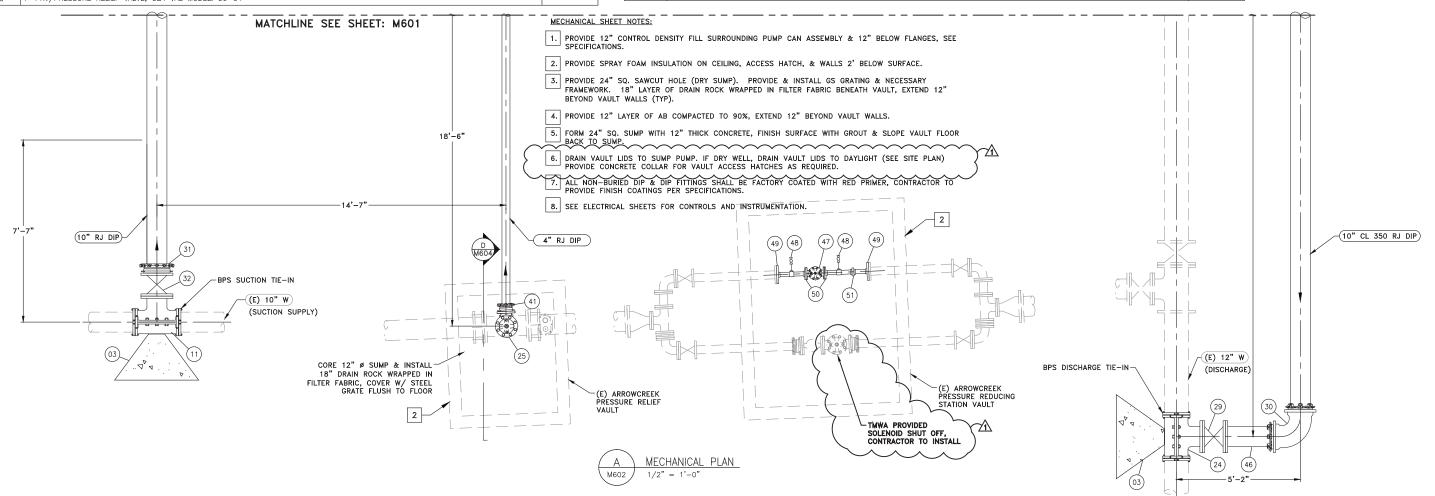
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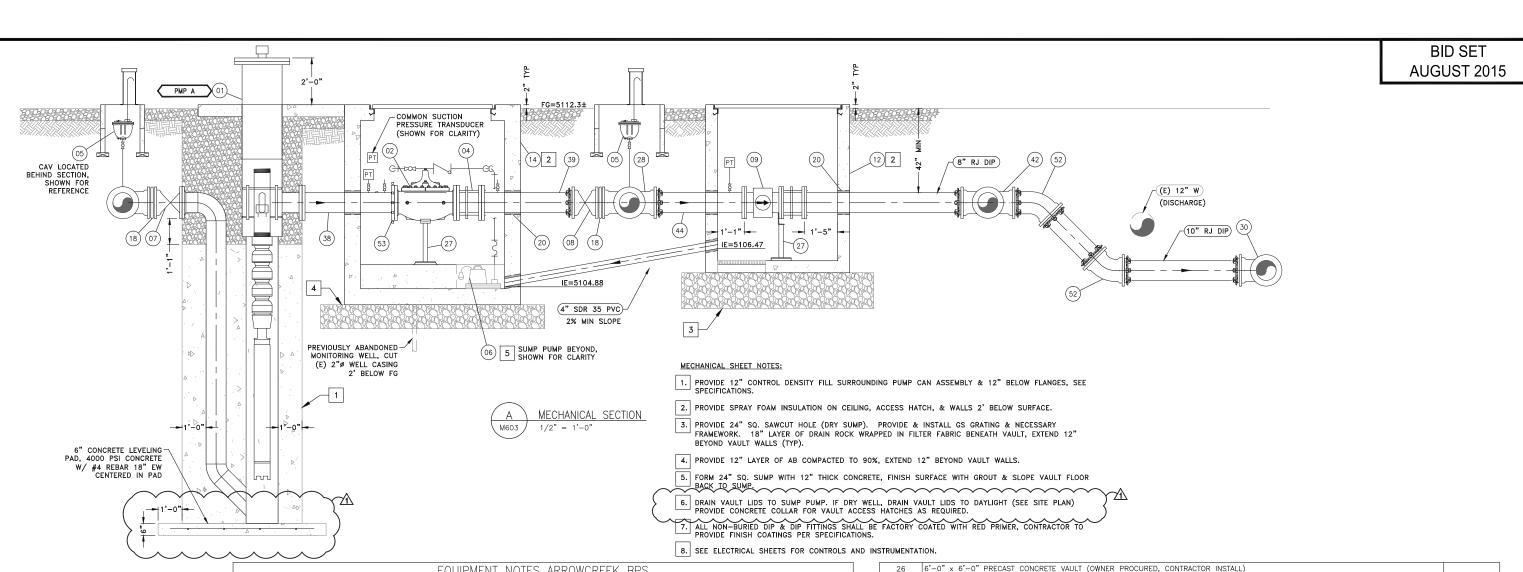
PROPERTY OF TRUCKEE MEADOWS WATER AUTHORITY, RETURN UPON COMPLETION OF PROJECT (Per Homeland Security Act)

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ADDENDUM #2

DESCRIPTION



	EQUIPMENT NOTES ARROWCREEK BPS	
TAG	DESCRIPTION	DETAIL
01	100 HP SUBMERSIBLE TURBINE PUMP, 750 GPM @ 385' TDH, INSTALLED IN FEL&C STL PITLESS ADAPTER W/ 10" FLG CONNECTIONS	
02	10" FLG BOOSTER PUMP CONTROL VALVE, CLA-VAL MODEL: 60-11 (ANSI CLASS 300 FLANGES), DRAIN VALVE TO SUMP	
03	THRUST BLOCK	10L-2/TYP
04	10" DISMANTLING JOINT (ANSI CLASS 300 FLANGES)	
05	1" CAV ASSEMBLY	10L-4/TYP
06	0.5 HP SUMP PUMP	M601/TYP
07	10" FLG x MJ RESILIENT WEDGE GV	
08	10" RMJ CL 350 RESILIENT WEDGE GV	
09	10" ANSI CL 300 FLG MAG-METER	
10	6" PRV/PRESSURE RELIEF VALVE, CLA-VAL MODEL: 50-01 (ANSI CLASS 300)	
11	10" FLG TAPPING SLEEVE	10D-2
12	5'-0" x 5'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL)	
13	48" SQ X 42" DEEP PRECAST CONCRETE DROP INLET W/ GS GRATING (OWNER PROCURED, CONTRACTOR INSTALL)	
14	8'-0" x 6'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL)	
15	4'-0" x 4'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL)	
16	AL ACCESS LADDER W/ LADDER-UP OPTION	
17	6" MJ x MJ ADAPTER	
18	10" MJ x MJ ADAPTER	
19	6" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300)	
20	PIPE PENETRATION	M302/TYP
21	6" CL 350 RMJ GV	
22	250 GALLON SURGE TANK W/ 10" FLG CONNECTION	
23	6" FLG EPDM DUCKBILL CV (MATCH DIAMETER TO CONNECTING PIPE SIZE)	
24	12" X 10" FLG TAPPING SLEEVE	10D-2
25	4" PRV/PRESSURE RELIEF VALVE, CLA-VAL MODEL: 50-01	

26	6'-0" x 6'-0" PRECAST CONCRETE VAULT (OWNER PROCURED, CONTRACTOR INSTALL)	
27	ADJUSTABLE PIPE SUPPORT	M412/TYP
28	10" DI RMJ TEE	
29	10" CL 350 FLG RESILIENT WEDGE GV	
30	10" DI RMJ 90" ELBOW	
31	10" RFA	
32	10" FLG RESILIENT WEDGE GV	
33	10" DI FLG 90" ELBOW W/ 2" NPT TAP, NIPPLE, BV, & HOSE BIB (TAP LOCATION AS SHOWN)	
34	6" DI FLG 90' ELBOW	
35	4" DI FLG 90' ELBOW	
36	6" DI FLG PIPE (12" LONG)	
37	4" DI FLG PIPE (18" LONG)	
38	10" FLG X PE FEL&C STL (ANSI CLASS 300) W/ (3) 1" NPT WELD-O-LET & (2) 1" NIPPLE, & BV ASSEMBLIES	
39	10" FLG X PE CL 350 DI PIPE W/ (1) 1" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY (ANSI CL 300 FLG)	
40	4" DI RMJ 90' ELBOW	
41	4" RFA	
42	10" x 6" RMJ DI TEE	
43	6" DI RMJ 90 ELBOW	
44	10" CL 350 FLG X PE DIP W/ (1) 1" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY	10L-4/TYP
45	1" SOLENOID BV W/ MICRO SWITCH	
46	10" FLG X PE CL 350 DI PIPE	
47	2" FLG PRV/PRESSURE REGULATING VALVE, CLA-VAL MODEL: 93-01	
48	2" X 1" NPT GS TEE W/ 1" BV & NIPPLE	
49	4" X 2" COMPANION FLANGE	
50	2" X 2" NPT COMPANION FLANGE	
51	2" NPT COUPLING	
52	10" DI FLG 45" ELBOW	
53	10" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300)	

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WORK ORDER NO. 10-0002
DESIGNED JPB/DAD
DRAWN AAA
DATE AUGUST 2015
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PROPERTY OF

TRUCKEE MEADOWS WATER
AUTHORITY, RETURN UPON
COMPLETION OF PROJECT

(Per Homeland Security Act)

TMWA ARROWCREEK DROUGHT RESPONSE DESIGN PROJECT

ARROWCREEK BPS MECHANICAL SECTIONS 1

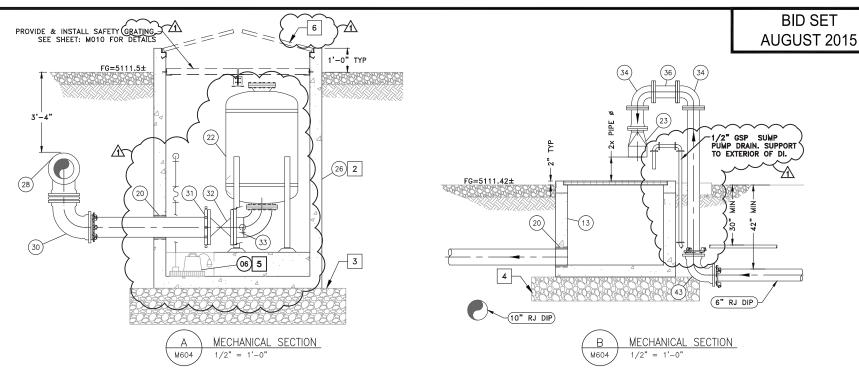


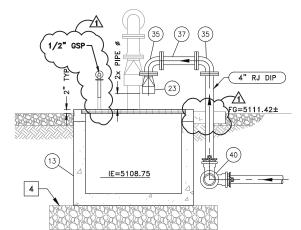
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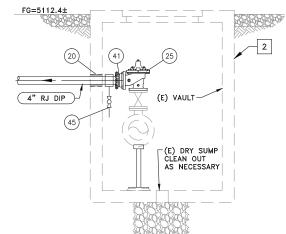
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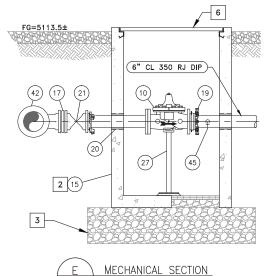






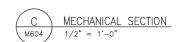


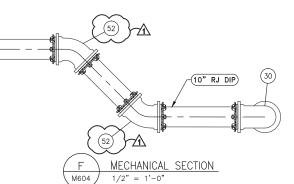
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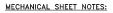


1/2" = 1'-0

BID SET







1/2" = 1'-0"

MECHANICAL SECTION

- 1. PROVIDE 12" CONTROL DENSITY FILL SURROUNDING PUMP CAN ASSEMBLY & 12" BELOW FLANGES, SEE SPECIFICATIONS.
- 2. PROVIDE SPRAY FOAM INSULATION ON CEILING, ACCESS HATCH, & WALLS 2' BELOW SURFACE.
- 3. PROVIDE 24" SQ. SAWCUT HOLE (DRY SUMP). PROVIDE & INSTALL GS GRATING & NECESSARY FRAMEWORK. 18" LAYER OF DRAIN ROCK WRAPPED IN FILTER FABRIC BENEATH VAULT, EXTEND 12" BEYOND VAULT WALLS (TYP).
- 4. PROVIDE 12" LAYER OF AB COMPACTED TO 90%, EXTEND 12" BEYOND VAULT WALLS.
- 5. FORM 24" SQ. SUMP WITH 12" THICK CONCRETE, FINISH SURFACE WITH GROUT & SLOPE VAULT FLOOR
- G. DRAIN VAULT LIDS TO SUMP PUMP. IF DRY WELL, DRAIN VAULT LIDS TO DAYLIGHT (SEE SITE PLAN) PROVIDE CONCRETE COLLAR FOR VAULT ACCESS HATCHES AS REQUIRED.
- 7. ALL NON-BURIED DIP & DIP FITTINGS SHALL BE FACTORY COATED WITH RED PRIMER, CONTRACTOR TO PROVIDE FINISH COATINGS PER SPECIFICATIONS.
- 8. SEE ELECTRICAL SHEETS FOR CONTROLS AND INSTRUMENTATION.

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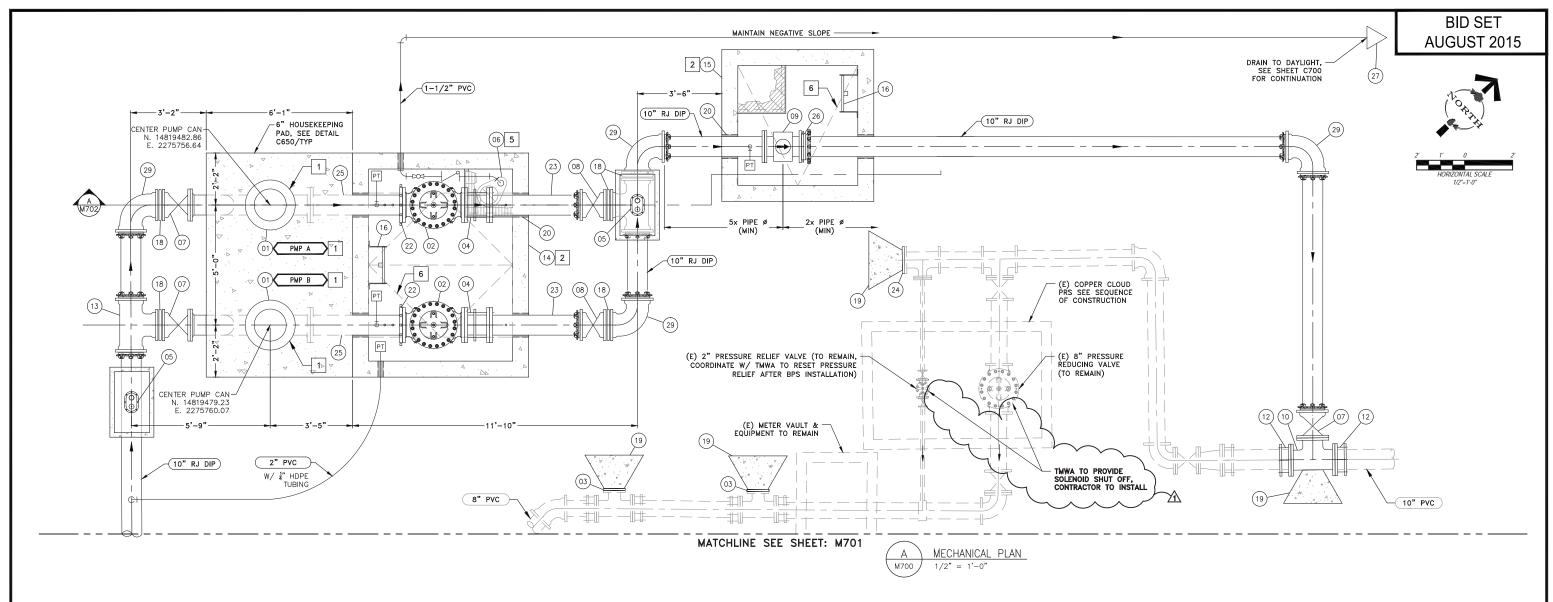
NOT REPRODUCIBLE PROPERTY OF TRUCKEE MEADOWS WATER AUTHORITY, RETURN UPON COMPLETION OF PROJECT

TMWA ARROWCREEK DROUGHT RESPONSE DESIGN **PROJECT**

ARROWCREEK BPS MECHANICAL SECTIONS 2







	EQUIPMENT NOTES COPPER CLOUD BPS	
TAG	DESCRIPTION	DETAIL
01	100 HP SUBMERSIBLE TURBINE PUMP, 900 GPM @ 350' TDH, INSTALLED IN FEL&C STL PITLESS ADAPTER W/ 10" FLG CONNECTIONS (AWWA CLASS 150 SUCTION/ANSI CLASS 300 DISCHARGE)	
02	10" FLG BOOSTER PUMP CONTROL VALVE, CLA-VAL MODEL: 60-11 (ANSI CLASS 300 FLANGES), DRAIN VALVE TO SUMP	
03	4" DI BLIND FLANGE (AWWA CLASS 250 RATED)	
04	10" DISMANTLING JOINT (ANSI CLASS 300 FLANGES)	
05	1" CAV ASSEMBLY	10L-4/C002
06	0.5 HP SUMP PUMP	M601/TYP
07	10" FLG x MJ RESILIENT WEDGE GV	
08	10" MJ x MJ RESILIENT WEDGE GV	
09	8" FLG MAG-METER, SPARLING MODEL: TIGERMAG FM656 OR APPROVED EQUAL	
10	10" FLG DI TEE	
11	ADJUSTABLE PIPE SUPPORT	M404/TYP
12	10" FCA	
13	14" x 10" MJ DI TEE	
14	8'-0" x 6'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL)	
15	4'-0" x 4'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL)	
16	AL ACCESS LADDER W/ LADDER-UP OPTION	
17	14" x 10" FLG TAPPING SLEEVE	

ENTIRMENT MATES CARRED CLAUD PRO

18	10" MJ x MJ ADAPTER	
19	THRUST BLOCK	10L-2/C00
20	PIPE PENETRATION	M302/TYF
21	12" DI CULVERT, SEE C700	
22	10" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300)	
23	10" FLG X PE CL 350 DI PIPE W/ (1) 1" NPT THREAD-O-LET, NIPPLE, & BV ASSMEBLY (ANSI CL 300 FLG)	
24	8" DI BLIND FLANGE	
25	10" FLG X PE FEL&C STL (ANSI CLASS 300) W/ (3) 1" NPT WELD-O-LET, NIPPLE, & BV ASSMEBLIES	
26	10" RFA	
27	1-1/2" "DUCKBILL" CHECK VALVE	
28	10" FLG RESILIENT WEDGE GV	
29	10" MJ DI 90" ELBOW	1

MECHANICAL SHEET NOTES:

- 1. PROVIDE CONTROL DENSITY FILL SURROUNDING PUMP CAN ASSEMBLY UP TO 12" BELOW CAN FLANGES AS SHOWN, SEE SPECIFICATIONS. BACKFILL REMAINING VOID TO SURFACE OR CONCRETE PAD WITH AB COMPACTED TO 95%.
- 2. PROVIDE SPRAY FOAM INSULATION ON CEILING, ACCESS HATCH, & WALLS 2' BELOW SURFACE.
- 3. PROVIDE 24" SQ. SAWCUT HOLE (DRY SUMP). PROVIDE & INSTALL GS GRATING & NECESSARY FRAMEWORK. 18" LAYER OF DRAIN ROCK WRAPPED IN FILTER FABRIC BENEATH VAULT, EXTEND 12" BEYOND VAULT WALLS (TYP).
- 4. PROVIDE 12" LAYER OF AB COMPACTED TO 90%, EXTEND 12" BEYOND VAULT WALLS.
- 5. FORM 24" SQ. SUMP WITH 12" THICK CONCRETE, FINISH SURFACE WITH GROUT & SLOPE VAULT FLOOR
 BACK TO SUMP.
- 6. DRAIN VAULT LIDS TO SUMP PUMP. IF DRY WELL, DRAIN VAULT LIDS TO DAYLIGHT (SEE SITE PLAN) PROVIDE CONCRETE COLLAR FOR VAULT ACCESS HATCHES AS REQUIRED.
- 7. ALL NON-BURIED DIP & DIP TITTINGS SHALL BE FACTORY COATED WITH RED PRIMER, CONTRACTOR TO PROVIDE FINISH COATINGS PER SPECIFICATIONS.
- 8. SEE ELECTRICAL SHEETS FOR CONTROLS AND INSTRUMENTATION.

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1	SUBMITTED	
1	RECOMMENDED	
1	APPROVED	



NOT REPRODUCIBLE
PROPERTY OF
TRUCKEE MEADOWS WATER
AUTHORITY, RETURN UPON
COMPLETION OF PROJECT
(Per Homeland Security Act)

TMWA ARROWCREEK DROUGHT RESPONSE DESIGN PROJECT

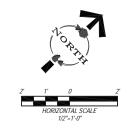
COPPER CLOUD BPS MECHANICAL PLAN



SHEET NUMBER

M700

52 OF _90_



	EQUIPMENT NOTES COPPER CLOUD BPS	
TAG	DESCRIPTION	DETAIL
01	100 HP SUBMERSIBLE TURBINE PUMP, 900 GPM @ 350' TDH, INSTALLED IN FEL&C STL PITLESS ADAPTER W/ 10" FLG CONNECTIONS (AWWA CLASS 150 SUCTION/ANSI CLASS 300 DISCHARGE)	
02	10" FLG BOOSTER PUMP CONTROL VALVE, CLA-VAL MODEL: 60-11 (ANSI CLASS 300 FLANGES), DRAIN VALVE TO SUMP	
03	4" DI BLIND FLANGE (AWWA CLASS 250 RATED)	
04	10" DISMANTLING JOINT (ANSI CLASS 300 FLANGES)	
05	1" CAV ASSEMBLY	10L-4/C002
06	0.5 HP SUMP PUMP	M601/TYP
07	10" FLG x MJ RESILIENT WEDGE GV	
80	10" MJ x MJ RESILIENT WEDGE GV	
09	8" FLG MAG-METER, SPARLING MODEL: TIGERMAG FM656 OR APPROVED EQUAL	
10	10" FLG DI TEE	
11	ADJUSTABLE PIPE SUPPORT	M404/TYP
12	10" FCA	
13	14" x 10" MJ DI TEE	
14	8'-0" x 6'-0" precast vault (OWNER procured, contractor install)	
15	4'-0" x 4'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL)	
16	AL ACCESS LADDER W/ LADDER-UP OPTION	
17	14" x 10" FLG TAPPING SLEEVE	
18	10" MJ x MJ ADAPTER	
19	THRUST BLOCK	10L-2/C002
20	PIPE PENETRATION	M302/TYP
21	12" DI CULVERT, SEE C700	
22	10" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300)	
23	10" FLG X PE CL 350 DI PIPE W/ (1) 1" NPT THREAD-O-LET, NIPPLE, & BV ASSMEBLY (ANSI CL 300 FLG)	
24	8" DI BLIND FLANGE	
25	10" FLG X PE FEL&C STL (ANSI CLASS 300) W/ (3) 1" NPT WELD-O-LET, NIPPLE, & BV ASSMEBLIES	
26	10" RFA	
27	1-1/2" "DUCKBILL" CHECK VALVE	
28	10" FLG RESILIENT WEDGE GV	
29	10" MJ DI 90 ELBOW	

MECHANICAL SHEET NOTES:

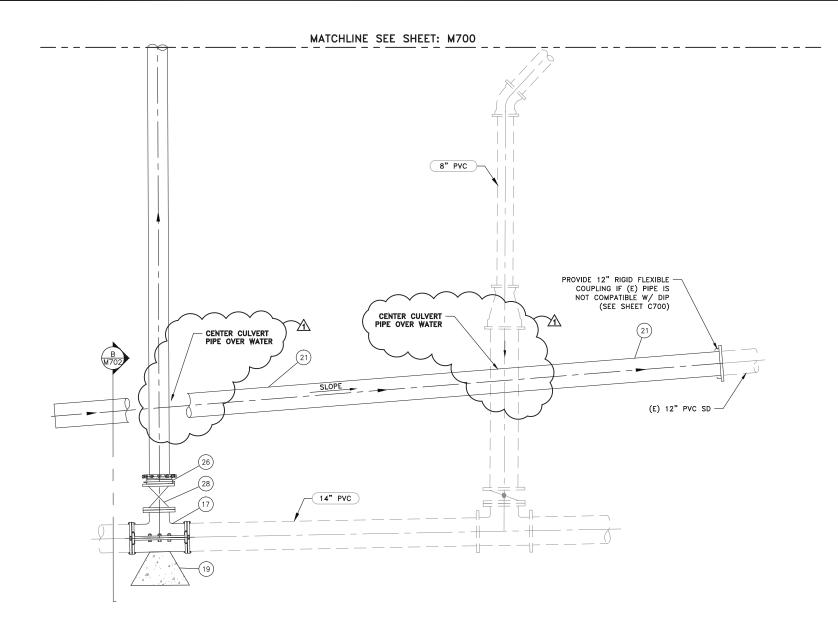
- 1. PROVIDE CONTROL DENSITY FILL SURROUNDING PUMP CAN ASSEMBLY UP TO 12" BELOW CAN FLANGES AS SHOWN, SEE SPECIFICATIONS. BACKFILL REMAINING VOID TO SURFACE OR CONCRETE PAD WITH AB COMPACTED TO 95%.
- 2. PROVIDE SPRAY FOAM INSULATION ON CEILING, ACCESS HATCH, & WALLS 2' BELOW SURFACE.
- 3. PROVIDE 24" SQ. SAWCUT HOLE (DRY SUMP). PROVIDE & INSTALL GS GRATING & NECESSARY FRAMEWORK. 18" LAYER OF DRAIN ROCK WRAPPED IN FILTER FABRIC BENEATH VAULT, EXTEND 12" BEYOND VAULT WALLS (TYP).
- 4. PROVIDE 12" LAYER OF AB COMPACTED TO 90%, EXTEND 12" BEYOND VAULT WALLS.
- 5. FORM 24" SQ. SUMP WITH 12" THICK CONCRETE, FINISH SURFACE WITH GROUT & SLOPE VAULT FLOOR BACK-TO-SUMP.
- 6. DRAIN VAULT LIDS TO SUMP PUMP. IF DRY WELL, DRAIN VAULT LIDS TO DAYLIGHT (SEE SITE PLAN)
 PROVIDE CONCRETE COLLAR FOR VAULT ACCESS HATCHES AS REQUIRED.

 7. ALL NON-BURIED DIP & DIP FITTINGS SHALL BE FACTORY COATED WITH RED PRIMER, CONTRACTOR TO PROVIDE FINISH COATINGS PER SPECIFICATIONS.
- 8. SEE ELECTRICAL SHEETS FOR CONTROLS AND INSTRUMENTATION.

TMWA ARROWCREEK	DROUGHT	RESPONSE	DESIGN
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COPPER CLOUD BPS MECHANICAL PLAN





MECHANICAL PLAN

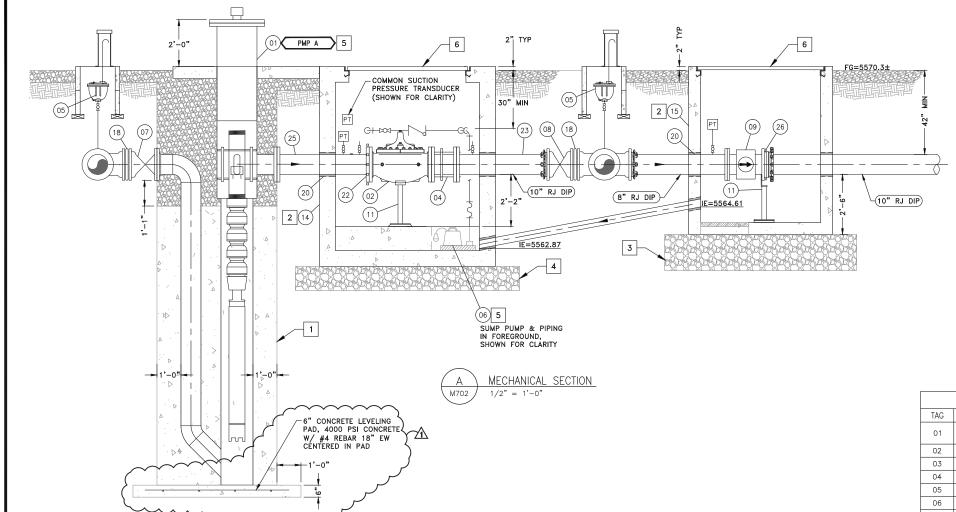
DESCRIPTION Λ ADDENDUM #2

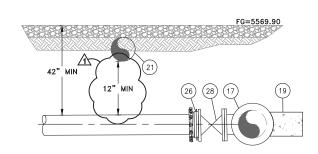
WORK ORDER NO._ 10-0002 DESIGNED JPB/DAD DRAWN AAA DATE _ AUGUST 2015 RCK CHECKED . SUBMITTED RECOMMENDED APPROVED



R U T H O R I T Y 1355 CAPITAL BLVD. / PO BOX 30013 RENO, NEVADA 89520-3013 PH 775-834-8080 / FX 775-834-8003

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MECHANICAL SHEET NOTES:

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	REVISION	DESCRIPTION	BY	APP	DATE	V
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ı	WORK ORDER NO	10-0002
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TMWA ARROWCREEK DROUGHT RESPONSE DESIGN PROJECT

COPPER CLOUD BPS MECHANICAL SECTIONS

