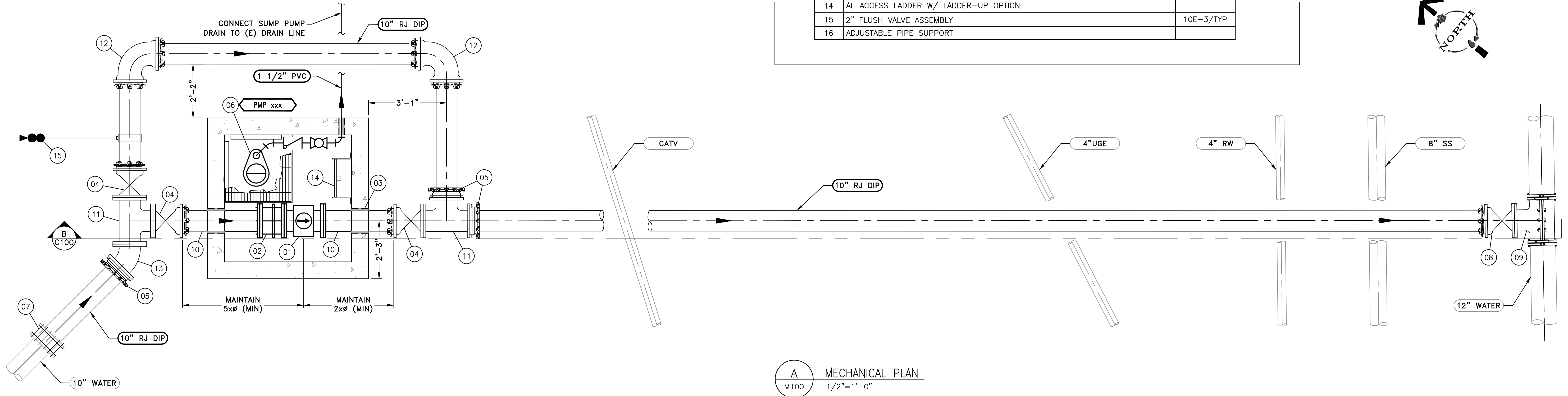
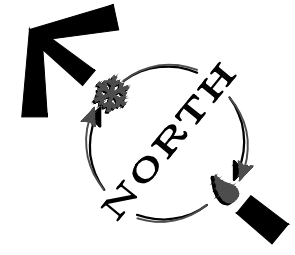
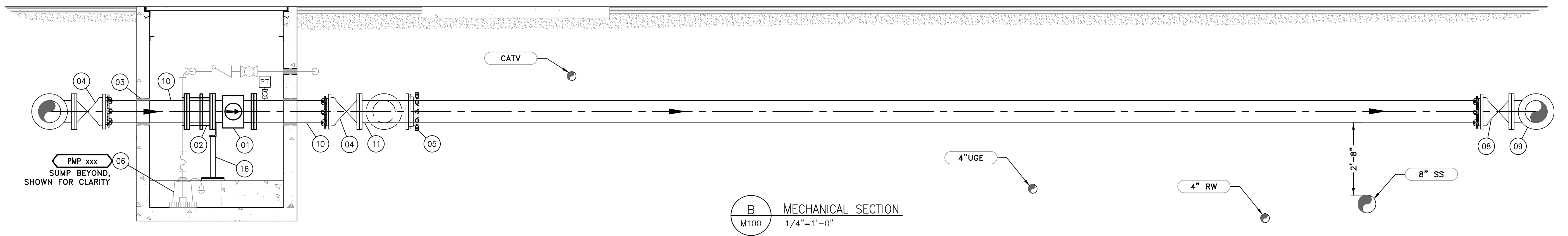


| DOUBLE R METER EQUIPMENT/MATERIAL LIST | | |
|--|---|-----------|
| TAG | DESCRIPTION | DETAIL |
| 01 | 10" FLG MAG-METER, SPARLING MODEL: TIGERMAG FM656 OR APPROVED EQUAL | |
| 02 | 10" DISMANTLING JOINT | |
| 03 | PIPE PENETRATION | M302/TYP |
| 04 | 10" FLG x MJ RESILIENT WEDGE GV | |
| 05 | 10" RFA | |
| 06 | 0.5 HP SUMP PUMP | M601/TYP |
| 07 | 10" FC | |
| 08 | 10" FLG x MJ RESILIENT WEDGE TAPPING GV | 10D-3/TYP |
| 09 | 12" x 10" FLG TAPPING SLEEVE | 10D-3/TYP |
| 10 | 10" FLG X PE DI PIPE | |
| 11 | 10" DI FLG TEE | |
| 12 | 10" DI RMJ 90° ELBOW | |
| 13 | 10" DI FLG 45° ELBOW | |
| 14 | AL ACCESS LADDER W/ LADDER-UP OPTION | |
| 15 | 2" FLUSH VALVE ASSEMBLY | 10E-3/TYP |
| 16 | ADJUSTABLE PIPE SUPPORT | |



A MECHANICAL PLAN
M100 1/2"=1'-0"




B MECHANICAL SECTION
M100 1/4"=1'-0"

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| REVISION | DESCRIPTION | BY | APP | DATE |
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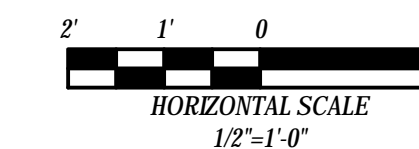
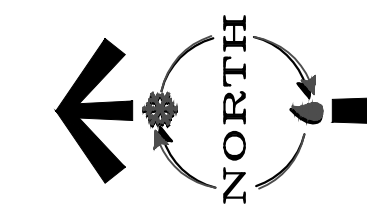
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| WORK ORDER NO. | 10-0002 |
| DESIGNED | JPB/DAD |
| DRAWN | AAA |
| DATE | JULY 2015 |
| CHECKED | RLK |
| SUBMITTED | |
| RECOMMENDED | |
| APPROVED | |


TRUCKEE MEADOWS WATER AUTHORITY
 1355 CAPITAL BLVD. / PO BOX 30013
 RENO, NEVADA 89520-3013
 PH 775-834-8080 / FX 775-834-8003

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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
DOUBLE R BPS MECHANICAL PLAN & SECTIONS

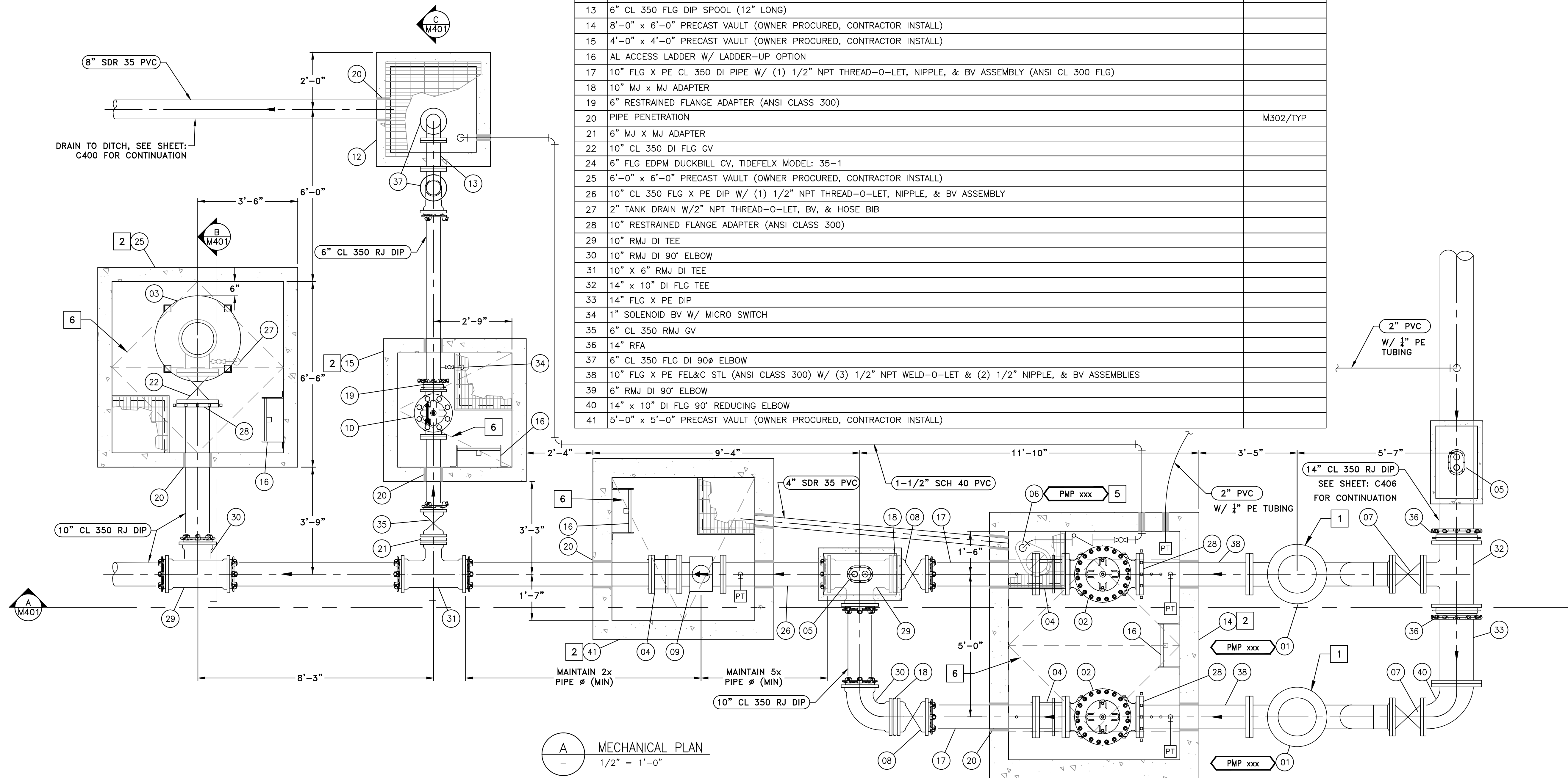
SHEET NUMBER
M100
 XX OF 64



MECHANICAL SHEET NOTES:

1. PROVIDE 1-SACK CONCRETE SURROUNDING PUMP CAN ASSEMBLY UP TO 12" BELOW CAN FLANGES AS SHOWN. 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) COVERED WITH GS GRATING & 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.
7. ALL NON-BURIED DIP & DIP FITTINGS SHALL BE FACTORY COATED WITH RED PRIMER, CONTRACTOR TO PROVIDE FINISH COATINGS PER SPECIFICATIONS.

| ZOLEZZI BPS EQUIPMENT/MATERIAL LIST | | |
|-------------------------------------|--|------------|
| TAG | DESCRIPTION | DETAIL |
| 01 | 150 HP SUBMERSIBLE TURBINE PUMP, 900 GPM @ 460' 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 | 264 GALLON BLADDER SURGE TANK W/ 10" FLG CONNECTION | |
| 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 RESILIENT WEDGE GV | |
| 08 | 10" CL 350 RMJ GV | |
| 09 | 10" ANSI CL 300 FLG MAG-METER | |
| 10 | 6" PRV/PRESSURE RELIEF VALVE, CLA-VAL MODEL: 50-01 (ANSI CLASS 300) | |
| 11 | ADJUSTABLE PIPE SUPPORT | M412/TYP |
| 12 | 36" SQ X 42" DEEP DI W/ GS GRATING | |
| 13 | 6" CL 350 FLG DIP SPOOL (12" LONG) | |
| 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 | 10" FLG X PE CL 350 DI PIPE W/ (1) 1/2" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY (ANSI CL 300 FLG) | |
| 18 | 10" MJ x MJ ADAPTER | |
| 19 | 6" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300) | |
| 20 | PIPE PENETRATION | M302/TYP |
| 21 | 6" MJ X MJ ADAPTER | |
| 22 | 10" CL 350 DI FLG GV | |
| 24 | 6" FLG EDPM DUCKBILL CV, TIDEFELX MODEL: 35-1 | |
| 25 | 6'-0" x 6'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL) | |
| 26 | 10" CL 350 FLG X PE DIP W/ (1) 1/2" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY | |
| 27 | 2" TANK DRAIN W/2" NPT THREAD-O-LET, BV, & HOSE BIB | |
| 28 | 10" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300) | |
| 29 | 10" RMJ DI TEE | |
| 30 | 10" RMJ DI 90° ELBOW | |
| 31 | 10" X 6" RMJ DI TEE | |
| 32 | 14" x 10" DI FLG TEE | |
| 33 | 14" FLG X PE DIP | |
| 34 | 1" SOLENOID BV W/ MICRO SWITCH | |
| 35 | 6" CL 350 RMJ GV | |
| 36 | 14" RFA | |
| 37 | 6" CL 350 FLG DI 90° ELBOW | |
| 38 | 10" FLG X PE FEL&C STL (ANSI CLASS 300) W/ (3) 1/2" NPT WELD-O-LET & (2) 1/2" NIPPLE, & BV ASSEMBLIES | |
| 39 | 6" RMJ DI 90° ELBOW | |
| 40 | 14" x 10" DI FLG 90° REDUCING ELBOW | |
| 41 | 5'-0" x 5'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL) | |



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

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| REVISION | DESCRIPTION | BY | APP | DATE |
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| WORK ORDER NO. | 10-0002 |
| DESIGNED | JPB/DAD |
| DRAWN | AAA |
| DATE | JULY 2015 |
| CHECKED | RLK |
| SUBMITTED | |
| RECOMMENDED | |
| APPROVED | |

TRUCKEE MEADOWS WATER AUTHORITY

1355 CAPITAL BLVD. / PO BOX 30013
RENO, NEVADA 89520-3013
PH 775-834-8080 / FX 775-834-8003

NOT REPRODUCIBLE

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

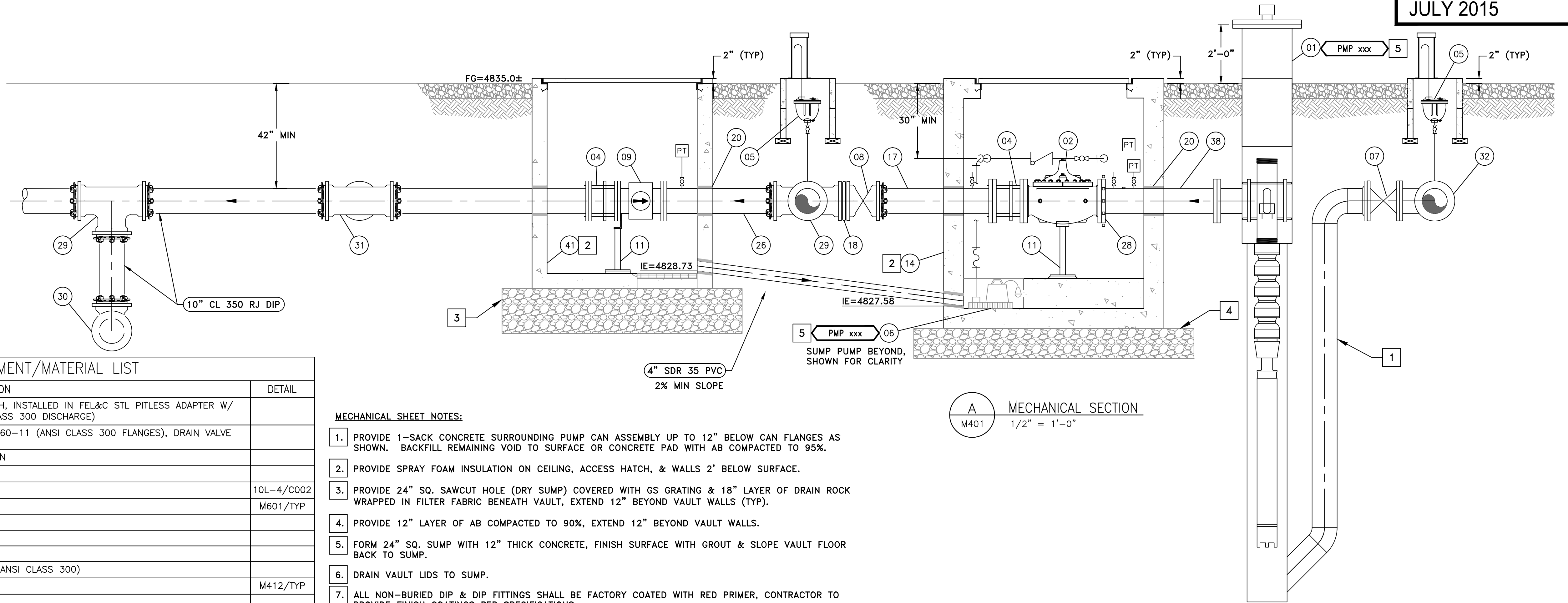
TMWA ARROWCREEK DROUGHT RESPONSE DESIGN PROJECT

NEW ZOLEZZI LANE BPS MECHANICAL PLAN

SHEET NUMBER

M400

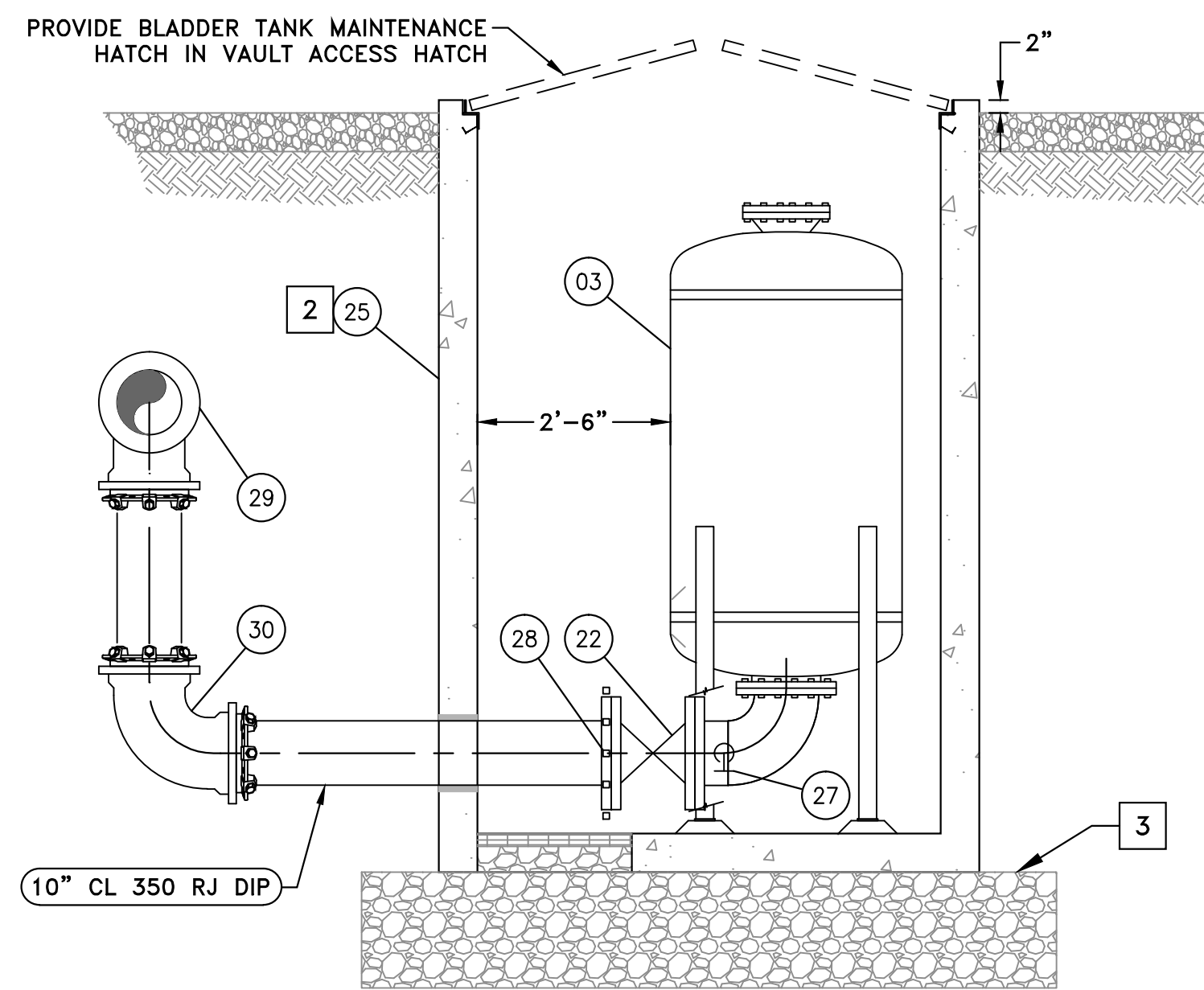
34 OF 64



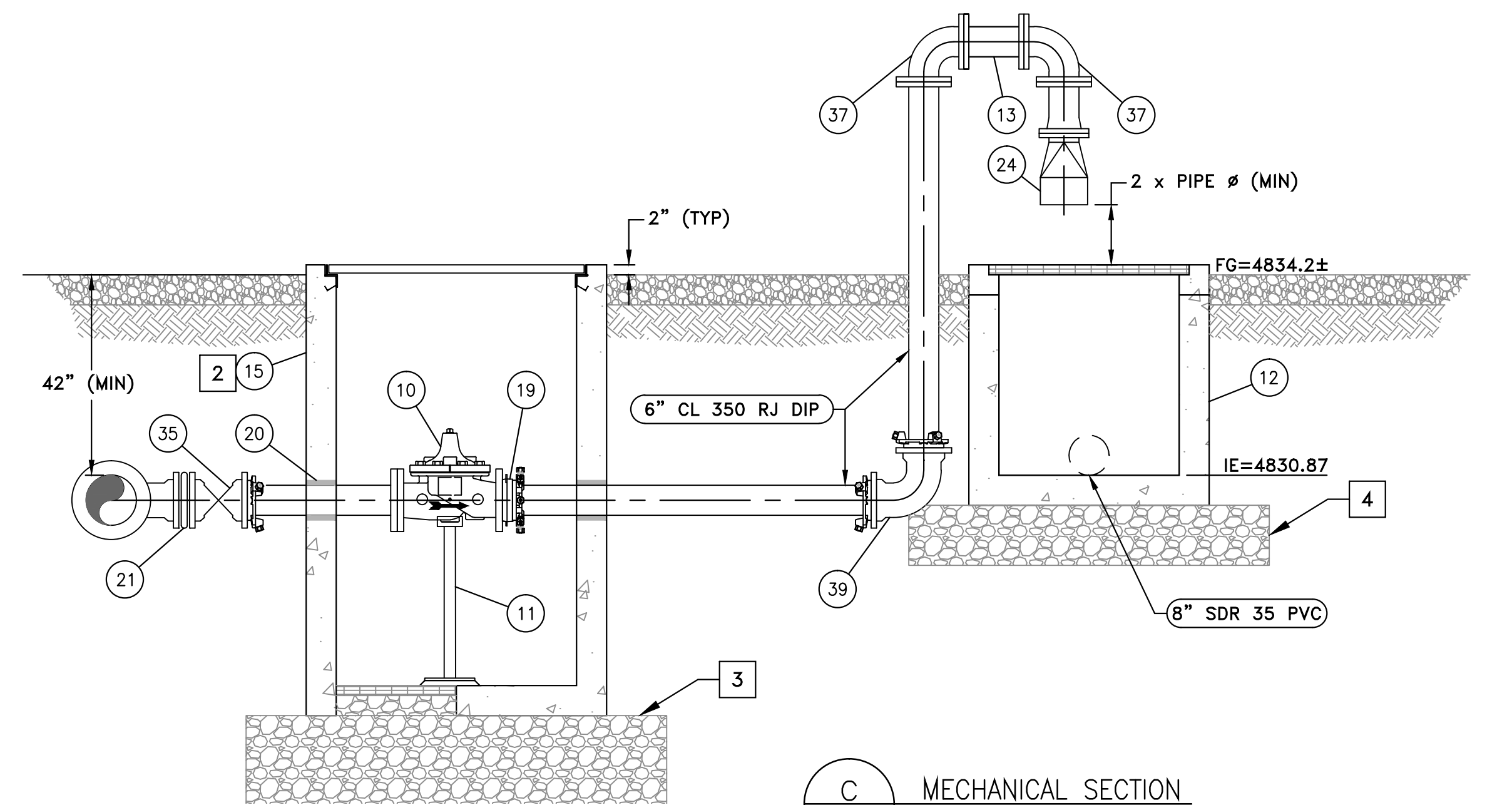
A MECHANICAL SECTION
M401 1/2" = 1'-0"

MECHANICAL SHEET NOTES:

1. PROVIDE 1-SACK CONCRETE SURROUNDING PUMP CAN ASSEMBLY UP TO 12" BELOW CAN FLANGES AS SHOWN. 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) COVERED WITH GS GRATING & 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.
7. ALL NON-BURIED DIP & DIP FITTINGS SHALL BE FACTORY COATED WITH RED PRIMER, CONTRACTOR TO PROVIDE FINISH COATINGS PER SPECIFICATIONS.



B MECHANICAL SECTION
M401 1/2" = 1'-0"



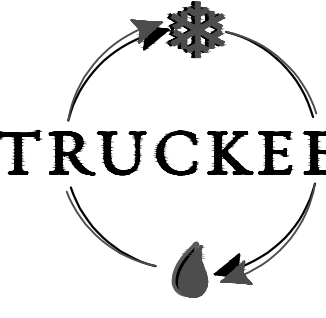
C MECHANICAL SECTION
M401 1/2" = 1'-0"

| ZOLEZZI BPS EQUIPMENT/MATERIAL LIST | | |
|-------------------------------------|--|------------|
| TAG | DESCRIPTION | DETAIL |
| 01 | 150 HP SUBMERSIBLE TURBINE PUMP, 900 GPM @ 460' 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 | 264 GALLON BLADDER SURGE TANK W/ 10" FLG CONNECTION | |
| 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 RESILIENT WEDGE GV | |
| 08 | 10" CL 350 RMJ GV | |
| 09 | 10" ANSI CL 300 FLG MAG-METER | |
| 10 | 6" PRV/PRESSURE RELIEF VALVE, CLA-VAL MODEL: 50-01 (ANSI CLASS 300) | |
| 11 | ADJUSTABLE PIPE SUPPORT | M412/TYP |
| 12 | 36" SQ X 42" DEEP DI W/ GS GRATING | |
| 13 | 6" CL 350 FLG DIP SPOOL (12" LONG) | |
| 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 | 10" FLG X PE CL 350 DI PIPE W/ (1) 1/2" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY (ANSI CL 300 FLG) | |
| 18 | 10" MJ X MJ ADAPTER | |
| 19 | 6" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300) | |
| 20 | PIPE PENETRATION | M302/TYP |
| 21 | 6" MJ X MJ ADAPTER | |
| 22 | 10" CL 350 DI FLG GV | |
| 24 | 6" FLG EDPM DUCKBILL CV, TIDEFELX MODEL: 35-1 | |
| 25 | 6'-0" x 6'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL) | |
| 26 | 10" CL 350 FLG X PE DIP W/ (1) 1/2" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY | |
| 27 | 2" TANK DRAIN W/2" NPT THREAD-O-LET, BV, & HOSE BIB | |
| 28 | 10" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300) | |
| 29 | 10" RMJ DI TEE | |
| 30 | 10" RMJ DI 90° ELBOW | |
| 31 | 10" X 6" RMJ DI TEE | |
| 32 | 14" x 10" DI FLG TEE | |
| 33 | 14" FLG X PE DIP | |
| 34 | 1" SOLENOID BV W/ MICRO SWITCH | |
| 35 | 6" CL 350 RMJ GV | |
| 36 | 14" RFA | |
| 37 | 6" CL 350 FLG DI 90° ELBOW | |
| 38 | 10" FLG X PE FEL&C STL (ANSI CLASS 300) W/ (3) 1/2" NPT WELD-O-LET & (2) 1/2" NIPPLE, & BV ASSEMBLIES | |
| 39 | 6" RMJ DI 90° ELBOW | |
| 40 | 14" x 10" DI FLG 90° REDUCING ELBOW | |
| 41 | 5'-0" x 5'-0" PRECAST VAULT (OWNER PROCURED, CONTRACTOR INSTALL) | |

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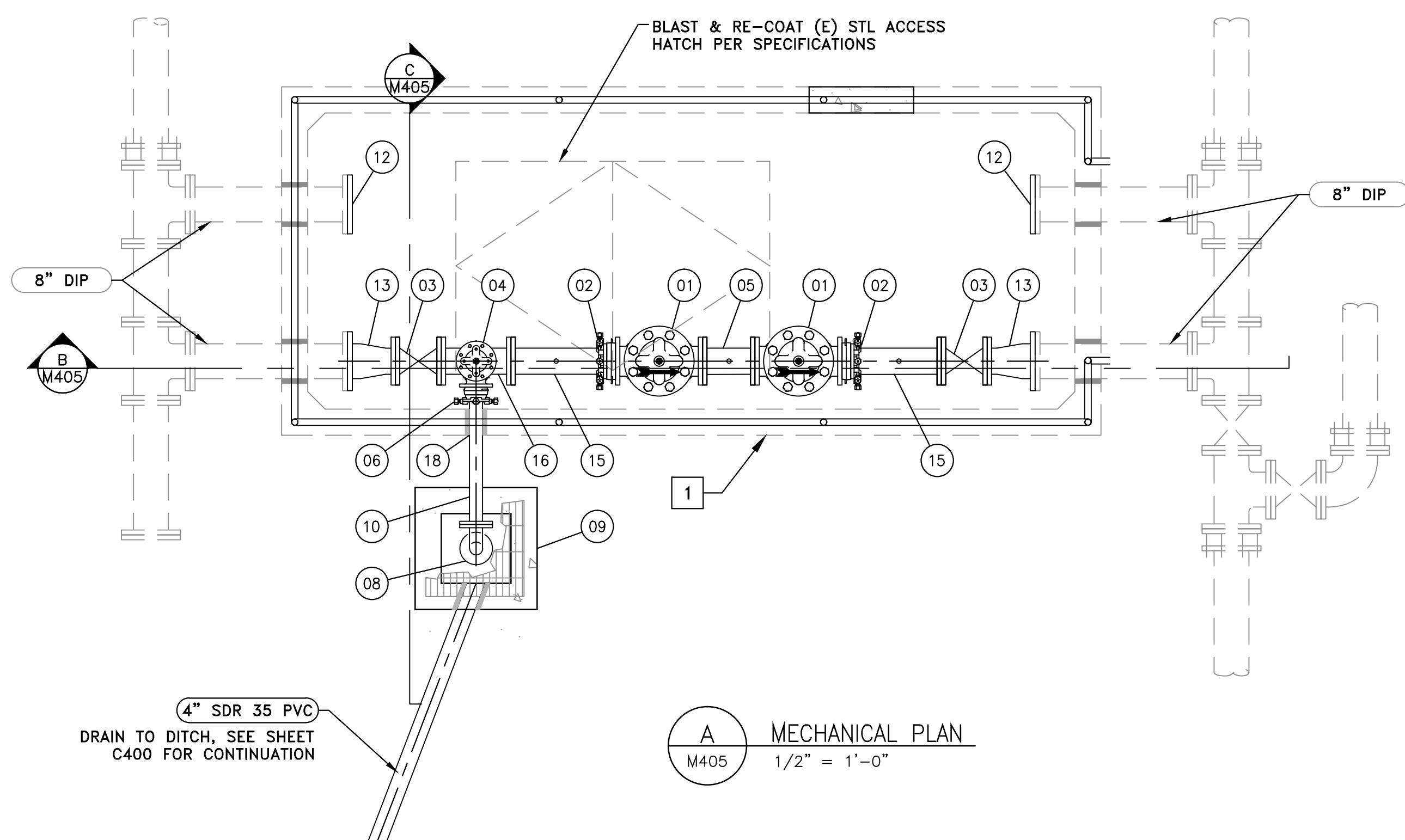
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| WORK ORDER NO. | 10-0002 |
| DESIGNED | JPB/DAD |
| DRAWN | AAA |
| DATE | JULY 2015 |
| CHECKED | RLK |
| SUBMITTED | |
| RECOMMENDED | |
| APPROVED | |


TRUCKEE MEADOWS WATER AUTHORITY
 1355 CAPITAL BLVD. / PO BOX 30013
 RENO, NEVADA 89520-3013
 PH 775-834-8080 / FX 775-834-8003

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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
NEW ZOLEZZI LANE BPS MECHANICAL SECTIONS

SHEET NUMBER
M401
 35 OF 64

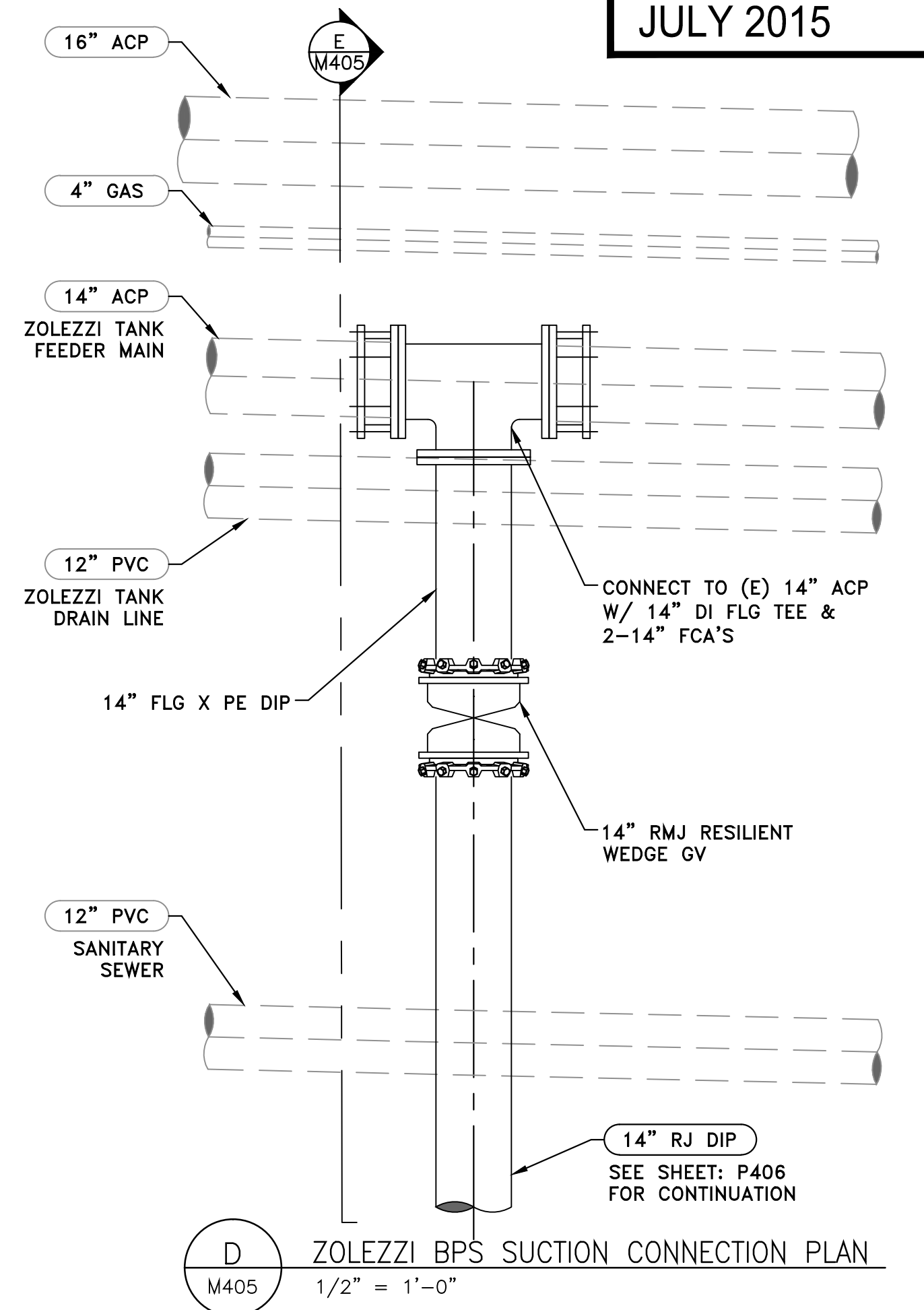


A MECHANICAL PLAN
M405 1/2" = 1'-0"

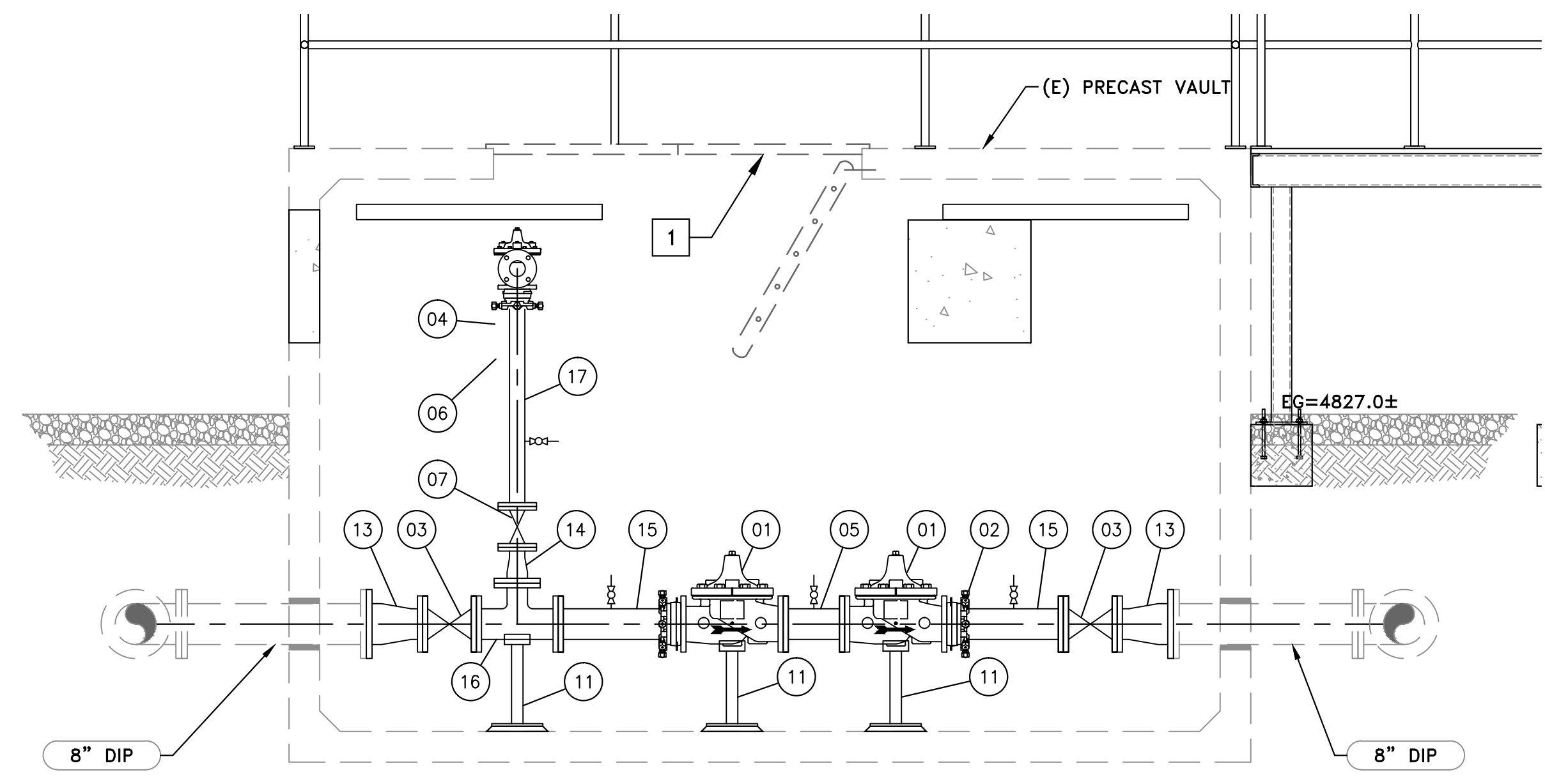
| STMGID 11 PRS EQUIPMENT/MATERIAL LIST | | |
|---------------------------------------|--|----------|
| TAG | DESCRIPTION | DETAIL |
| 01 | 6" PRV/PRESSURE REDUCING VALVE, CLA-VAL MODEL: 90-01 OR APPROVED EQUAL | |
| 02 | 6" RFA | |
| 03 | 6" FLG x FLG RESILIENT WEDGE GV | |
| 04 | 3" FLG PRV/PRESSURE RELIEF VALVE, CLA-VAL MODEL: 50-01 OR APPROVED EQUAL | |
| 05 | 6" FLG DIP (12" LONG) W/ 1/2" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY | |
| 06 | 3" RFA | |
| 07 | 3" FLG x FLG RESILIENT WEDGE GV | |
| 08 | 3" DI FLG 90° ELBOW W/ FLG "DUCKBILL" CHECK VALVE | |
| 09 | 16" SQ x 24" DEEP PRE-CAST DROP INLET W/ GST GRATING | |
| 10 | 3" FLG X PE DIP | |
| 11 | ADJUSTABLE PIPE SUPPORT | M302/TYP |
| 12 | 8" DI BLIND FLG | |
| 13 | 8" x 6" DI FLG REDUCER | |
| 14 | 4" x 3" DI FLG REDUCER | |
| 15 | 6" FLG X PE DIP W/ 1/2" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY | |
| 16 | 6" x 4" DI FLG TEE | |
| 17 | 3" FLG X PE DIP W/ 1/2" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY | |
| 18 | PIPE PENETRATION | M302/TYP |

MECHANICAL SHEET NOTES:

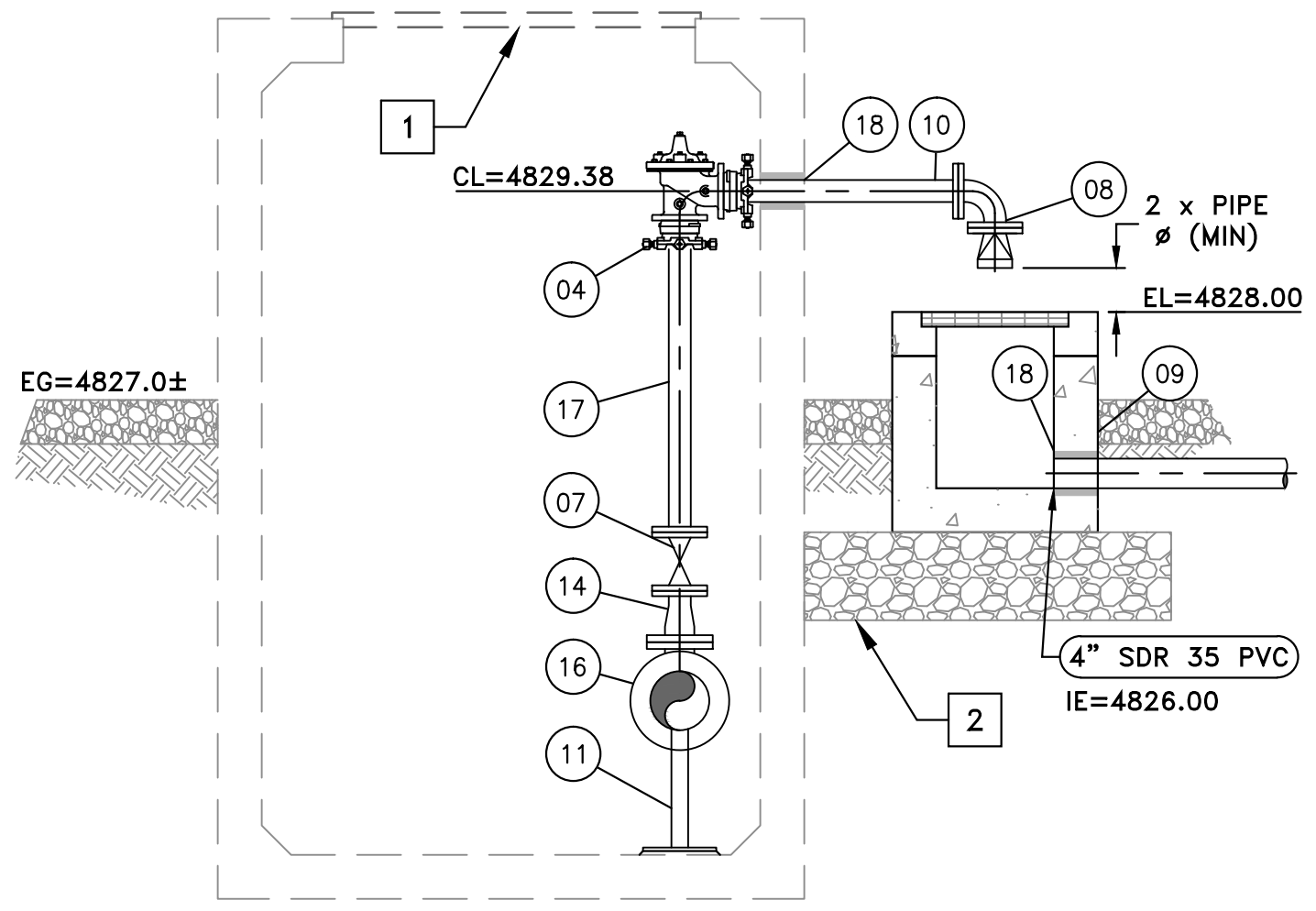
1. PROVIDE SPRAY FOAM INSULATION ON CEILING, ACCESS HATCH, & WALLS 2' BELOW SURFACE.
2. PROVIDE 12" LAYER OF AB COMPACTED TO 90%, EXTEND 12" BEYOND VAULT WALLS.
3. ALL NON-BURIED DIP & DIP FITTINGS SHALL BE FACTORY COATED WITH RED PRIMER, CONTRACTOR TO PROVIDE FINISH COATINGS PER SPECIFICATIONS.



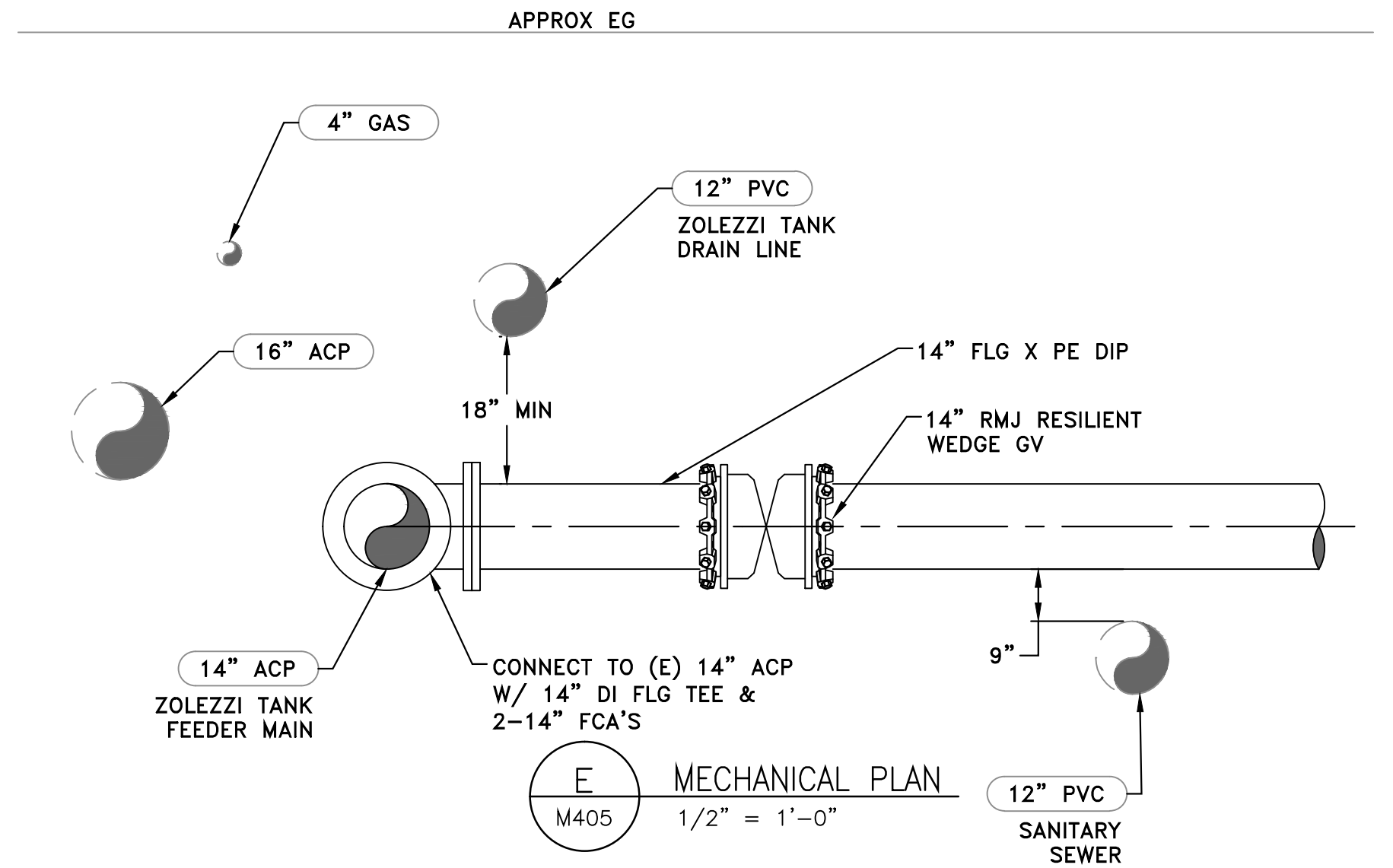
D ZOLEZZI BPS SUCTION CONNECTION PLAN
M405 1/2" = 1'-0"



B MECHANICAL SECTION
M405 1/2" = 1'-0"



C MECHANICAL SECTION
M405 1/2" = 1'-0"



E MECHANICAL PLAN
M405 1/2" = 1'-0"

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| WORK ORDER NO. | 10-0002 |
| DESIGNED | JPB/DAD |
| DRAWN | AAA |
| DATE | JULY 2015 |
| CHECKED | RLK |
| SUBMITTED | |
| RECOMMENDED | |
| APPROVED | |

TRUCKEE MEADOWS WATER AUTHORITY

1355 CAPITAL BLVD. / PO BOX 30013
RENO, NEVADA 89520-3013
PH 775-834-8080 / FX 775-834-8003

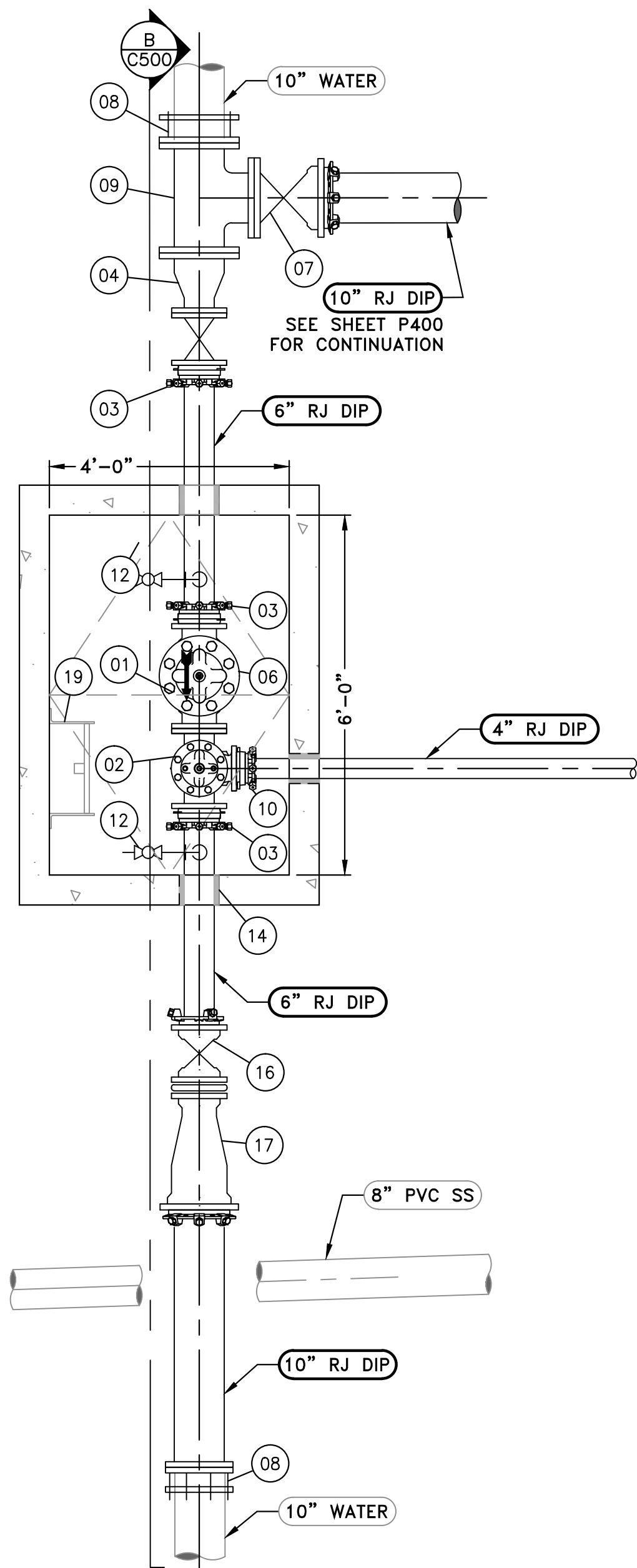
NOT REPRODUCIBLE

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

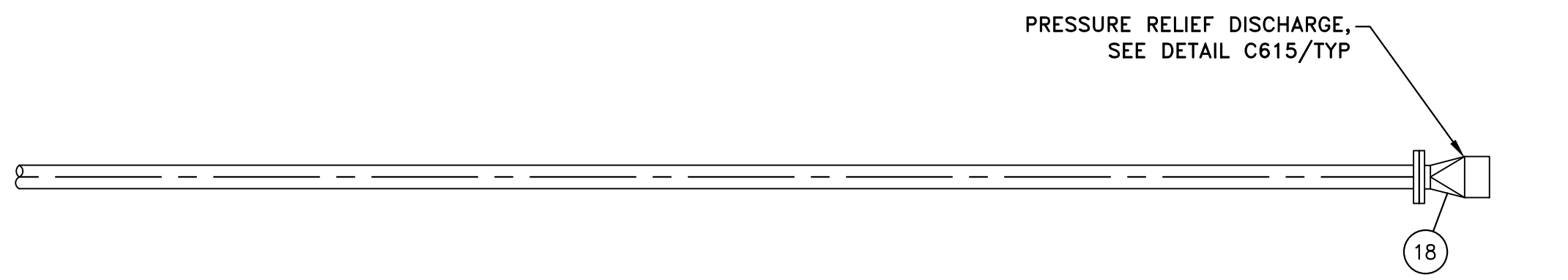
TMWA ARROWCREEK DROUGHT RESPONSE DESIGN PROJECT

NEW STMGID WELL 11 PRV STATION MODIFICATIONS

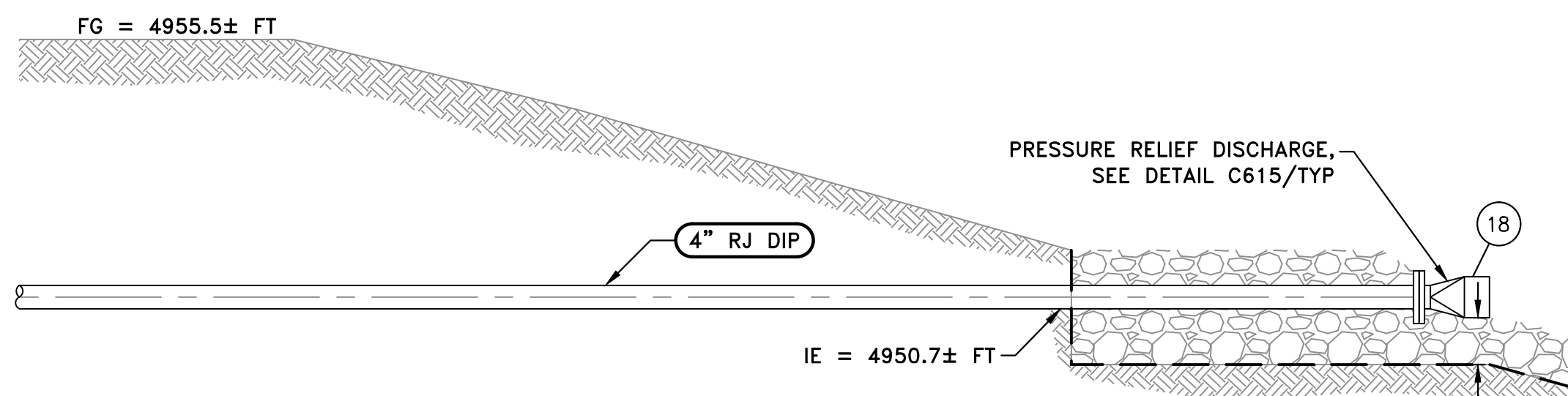
SHEET NUMBER
M405
36 OF 64



A MECHANICAL PLAN
M500 1/2" = 1'-0"



B MECHANICAL SECTION
M500 1/2" = 1'-0"



C MECHANICAL SECTION
M500 1/2" = 1'-0"

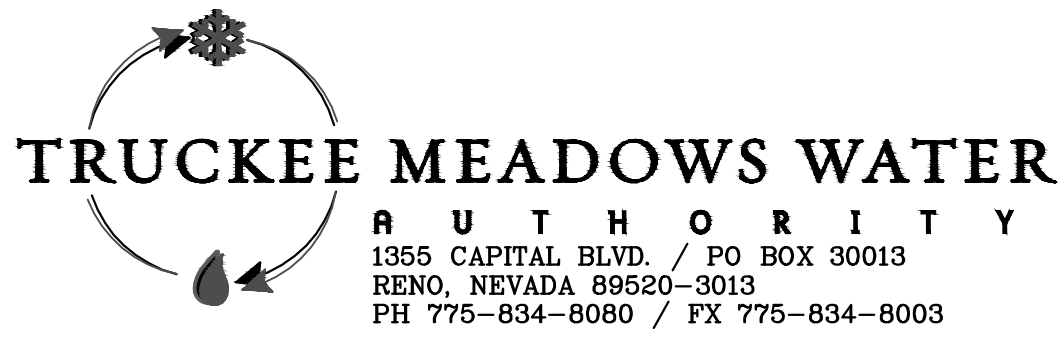
| WELCOME WAY PRS EQUIPMENT/MATERIAL LIST | | |
|---|---|----------|
| TAG | DESCRIPTION | DETAIL |
| 01 | 6" x 4" DI FLG TEE | |
| 02 | 4" FLG PRV/PRESSURE RELIEF VALVE CLA-VAL MODEL: 50-01 OR APPROVED EQUAL | |
| 03 | 6" RFA | |
| 04 | 10" X 6" DI FLG REDUCER | |
| 05 | NOT USED | |
| 06 | 6" FLG PRV | |
| 07 | 10" FLG RESILIENT WEDGE GV | |
| 08 | 10" FCA | |
| 09 | 10" DI FLG TEE | |
| 10 | 4" RFA | |
| 11 | 4" FLG RESILIENT WEDGE GV | |
| 12 | 1" PRESSURE GAUGE CONNECTION ASSEMBLY W/ 1" BV | |
| 13 | ADJUSTABLE PIPE SUPPORT | M404/TYP |
| 14 | PIPE PENETRATION | M302/TYP |
| 15 | 6" FLG GV | |
| 16 | 6" MJ GV | |
| 17 | 10" X 6" MJ REDUCER | |
| 18 | 4" FLG EDPM DUCKBILL CV, TIDEFELX MODEL: 35-1 | |
| 19 | AL ACCESS LADDER W/ LADDER-UP OPTION | |

8" PVC SS
IE = 4926.4± FT

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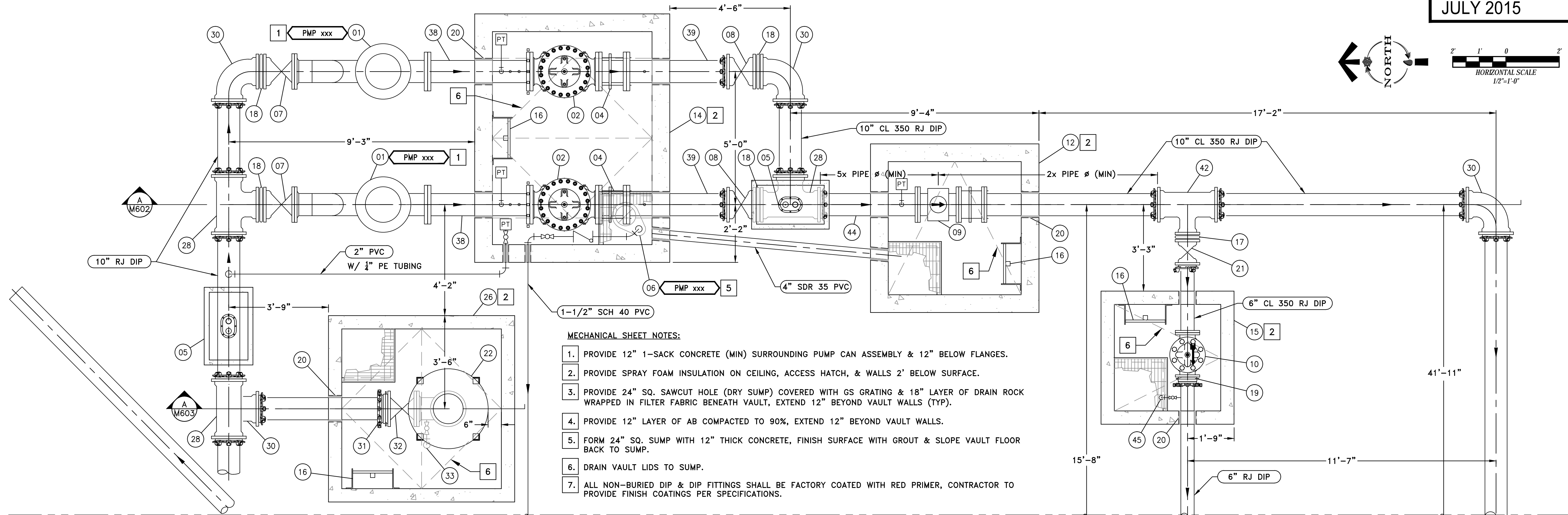
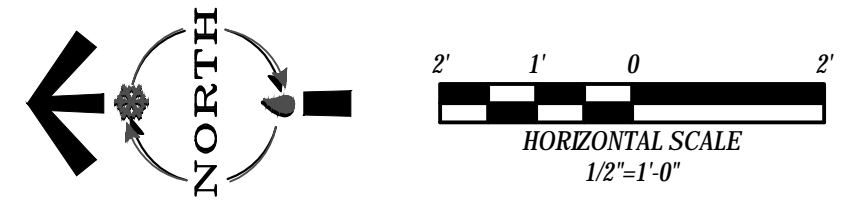
WORK ORDER NO. 10-0002
 DESIGNED JPB/DAD
 DRAWN AAA
 DATE JULY 2015
 CHECKED RLK
 SUBMITTED
 RECOMMENDED
 APPROVED



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

TMWA ARROWCREEK DROUGHT RESPONSE DESIGN PROJECT
WELCOME WAY BPS MECHANICAL PLAN & SECTIONS

SHEET NUMBER
M500
 XX OF 64



- MECHANICAL SHEET NOTES:**
1. PROVIDE 12" 1-SACK CONCRETE (MIN) SURROUNDING PUMP CAN ASSEMBLY & 12" BELOW FLANGES.
 2. PROVIDE SPRAY FOAM INSULATION ON CEILING, ACCESS HATCH, & WALLS 2' BELOW SURFACE.
 3. PROVIDE 24" SQ. SAWCUT HOLE (DRY SUMP) COVERED WITH GS GRATING & 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.
 7. ALL NON-BURIED DIP & DIP FITTINGS SHALL BE FACTORY COATED WITH RED PRIMER, CONTRACTOR TO PROVIDE FINISH COATINGS PER SPECIFICATIONS.

MATCHLINE SEE SHEET: M601

A MECHANICAL PLAN
M600 1/2" = 1'-0"

EQUIPMENT NOTES ARROWCREEK BPS

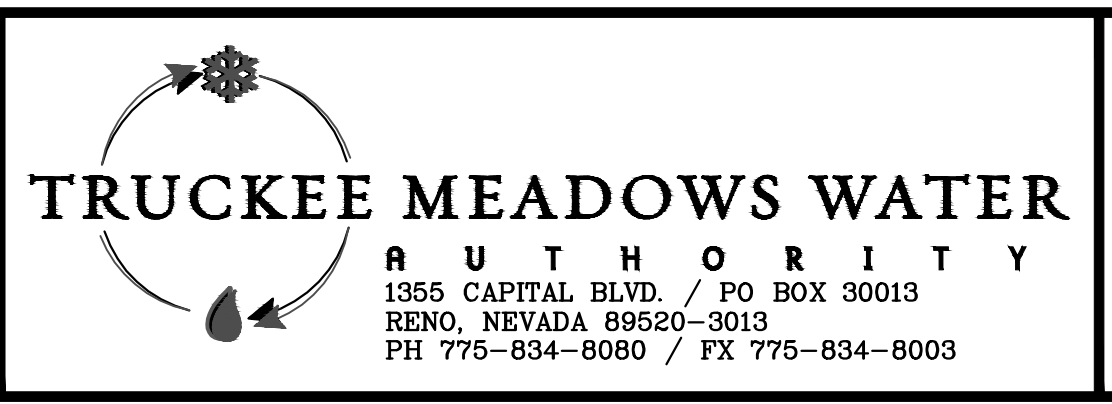
| TAG | DESCRIPTION | DETAIL |
|-----|--|-----------|
| 01 | 150 HP SUBMERSIBLE TURBINE PUMP, 750 GPM @ 385' TDH, INSTALLED IN FEL&C STL PITLESS ADAPTER W/ 10" FLG CONNECTIONS | |
| 02 | 10" FLG BOOSTER PUMP CONTROL VALVE, CLA-VAL MODEL: 60-11 (ANSI CLASS 300 FLANGES), DRAIN VALVE TO SUMP | |
| 03 | 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 | |
| 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 | |
| 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 | 264 GALLON SURGE TANK W/ 10" FLG CONNECTION | |

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|----|---|-----------|
| 23 | 6" FLG EDPM DUCKBILL CV, TIDEFELX MODEL: 35-1 | |
| 24 | 12" X 10" FLG TAPPING SLEEVE | |
| 25 | 4" FLG EDPM DUCKBILL CV, TIDEFELX MODEL: 35-1 | |
| 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" FLG x MJ RESILIENT WEDGE TAPPING GV | |
| 30 | 10" DI RMJ 90° ELBOW | |
| 31 | 10" RFA | |
| 32 | 10" FLG RESILIENT WEDGE GV | |
| 33 | 2" TANK DRAIN W/ 2" NPT WELDD-O-LET, NIPPLE, BV, & HOSE BIB | |
| 34 | 6" DI FLG 90° ELBOW | |
| 35 | 4" DI FLG 90° ELBOW | |
| 36 | 6" DI FLG PIPE (12" LONG) | |
| 37 | 4" DI FLG PIPE (12" LONG) | |
| 38 | 10" FLG X PE FEL&C STL (ANSI CLASS 300) W/ (3) 1/2" NPT WELD-O-LET & (2) 1/2" NIPPLE, & BV ASSEMBLIES | |
| 39 | 10" FLG X PE CL 350 DI PIPE W/ (1) 1/2" 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) 1/2" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY | 10L-4/TYP |
| 45 | 1" SOLENOID BV W/ MICRO SWITCH | |

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| REVISION | DESCRIPTION | BY | APP | DATE |
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WORK ORDER NO. 10-0002
 DESIGNED JPB/DAD
 DRAWN AAA
 DATE JULY 2015
 CHECKED RLK
 SUBMITTED
 RECOMMENDED
 APPROVED

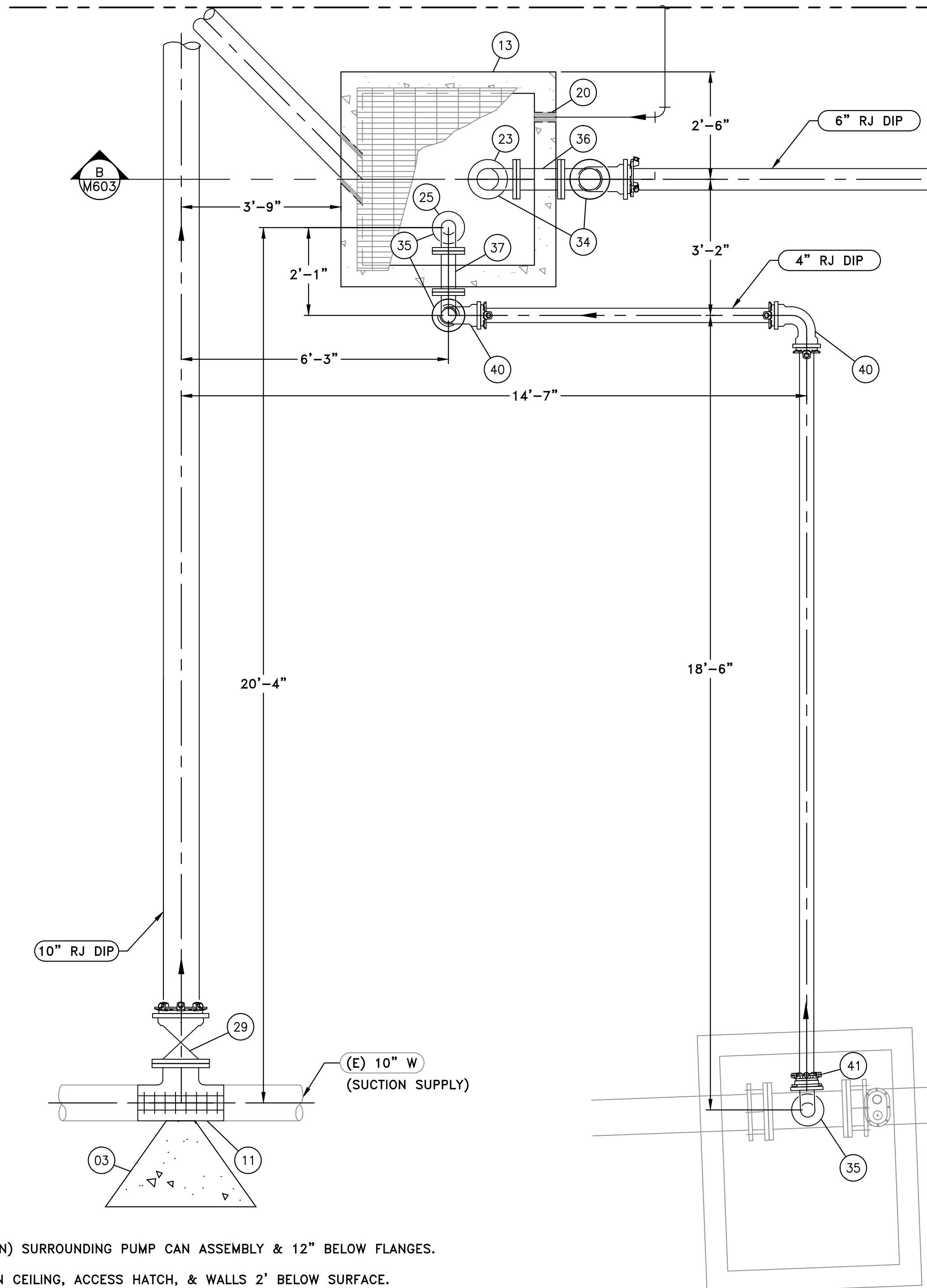


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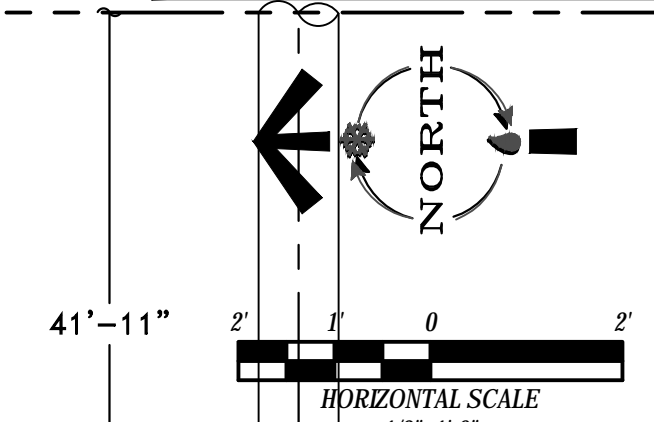
TMWA ARROWCREEK DROUGHT RESPONSE DESIGN PROJECT
ARROWCREEK BPS MECHANICAL PLAN

SHEET NUMBER
M600
 37 OF 64

MATCHLINE SEE SHEET: M600



| EQUIPMENT NOTES ARROWCREEK BPS | | |
|--------------------------------|--|-----------|
| TAG | DESCRIPTION | DETAIL |
| 01 | 150 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 | |
| 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 | |
| 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 | 264 GALLON SURGE TANK W/ 10" FLG CONNECTION | |
| 23 | 6" FLG EDPM DUCKBILL CV, TIDEFELX MODEL: 35-1 | |
| 24 | 12" X 10" FLG TAPPING SLEEVE | |
| 25 | 4" FLG EDPM DUCKBILL CV, TIDEFELX MODEL: 35-1 | |
| 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" FLG x MJ RESILIENT WEDGE TAPPING GV | |
| 30 | 10" DI RMJ 90° ELBOW | |
| 31 | 10" RFA | |
| 32 | 10" FLG RESILIENT WEDGE GV | |
| 33 | 2" TANK DRAIN W/ 2" NPT WELDD-O-LET, NIPPLE, BV, & HOSE BIB | |
| 34 | 6" DI FLG 90° ELBOW | |
| 35 | 4" DI FLG 90° ELBOW | |
| 36 | 6" DI FLG PIPE (12" LONG) | |
| 37 | 4" DI FLG PIPE (12" LONG) | |
| 38 | 10" FLG X PE FEL&C STL (ANSI CLASS 300) W/ (3) 1/2" NPT WELD-O-LET & (2) 1/2" NIPPLE, & BV ASSEMBLIES | |
| 39 | 10" FLG X PE CL 350 DI PIPE W/ (1) 1/2" 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) 1/2" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY | 10L-4/TYP |
| 45 | 1" SOLENOID BV W/ MICRO SWITCH | |



MECHANICAL SHEET NOTES:

- PROVIDE 12" 1-SACK CONCRETE (MIN) SURROUNDING PUMP CAN ASSEMBLY & 12" BELOW FLANGES.
- PROVIDE SPRAY FOAM INSULATION ON CEILING, ACCESS HATCH, & WALLS 2' BELOW SURFACE.
- PROVIDE 24" SQ. SAWCUT HOLE (DRY SUMP) COVERED WITH GS GRATING & 18" LAYER OF DRAIN ROCK WRAPPED IN FILTER FABRIC BENEATH VAULT, EXTEND 12" BEYOND VAULT WALLS (TYP).
- PROVIDE 12" LAYER OF AB COMPACTED TO 90%, EXTEND 12" BEYOND VAULT WALLS.
- FORM 24" SQ. SUMP WITH 12" THICK CONCRETE, FINISH SURFACE WITH GROUT & SLOPE VAULT FLOOR BACK TO SUMP.
- DRAIN VAULT LIDS TO SUMP.
- ALL NON-BURIED DIP & DIP FITTINGS SHALL BE FACTORY COATED WITH RED PRIMER, CONTRACTOR TO PROVIDE FINISH COATINGS PER SPECIFICATIONS.

| REVISION | DESCRIPTION | BY | APP | DATE |
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WORK ORDER NO. 10-0002
 DESIGNED JPB/DAD
 DRAWN AAA
 DATE JULY 2015
 CHECKED RLK
 SUBMITTED
 RECOMMENDED
 APPROVED

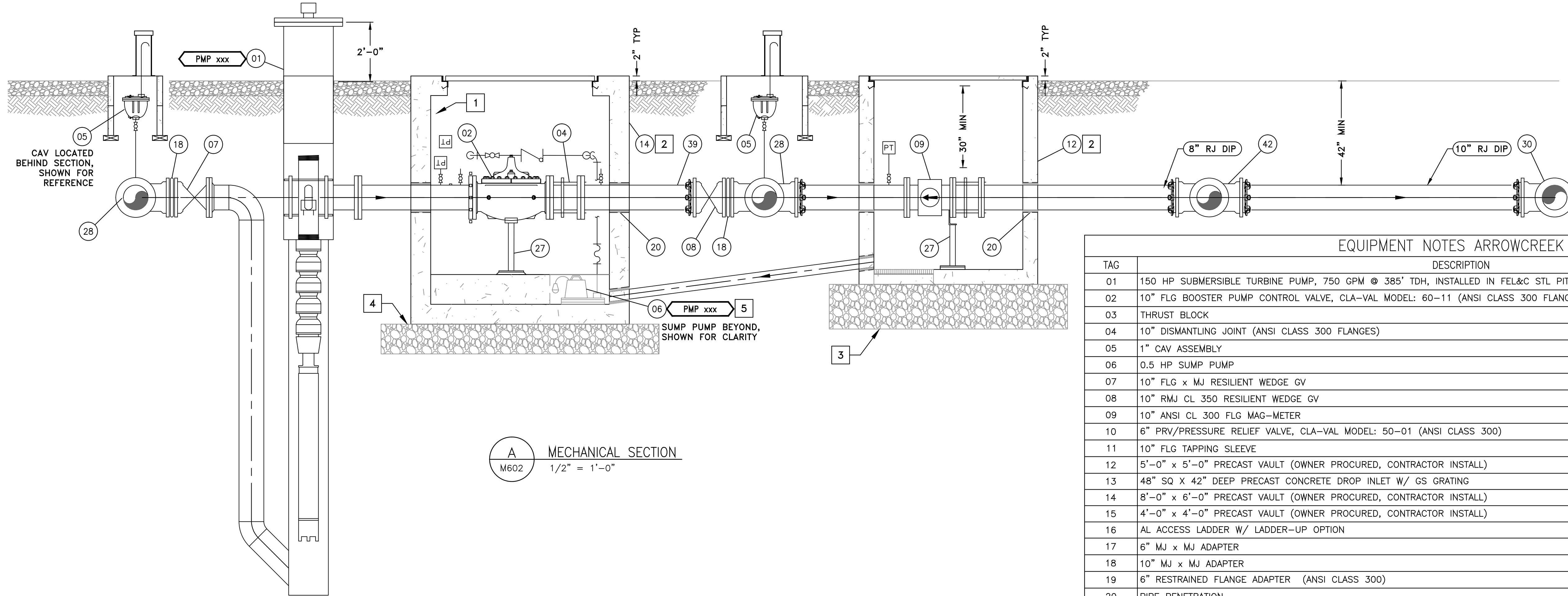
TRUCKEE MEADOWS WATER AUTHORITY
 1355 CAPITAL BLVD. / PO BOX 30013
 RENO, NEVADA 89520-3013
 PH 775-834-8080 / FX 775-834-8003

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TMWA ARROWCREEK DROUGHT RESPONSE DESIGN PROJECT

SHEET NUMBER
M601
 XX OF 64

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 M601.dwg
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 M601.dwg
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A MECHANICAL SECTION
M602 1/2" = 1'-0"


MECHANICAL SHEET NOTES:

1. PROVIDE 12" 1-SACK CONCRETE (MIN) SURROUNDING PUMP CAN ASSEMBLY & 12" BELOW FLANGES.
2. PROVIDE SPRAY FOAM INSULATION ON CEILING, ACCESS HATCH, & WALLS 2' BELOW SURFACE.
3. PROVIDE 24" SQ. SAWCUT HOLE (DRY SUMP) COVERED WITH GS GRATING & 18" LAYER OF DRAIN ROCK WRAPPED IN FILTER FABRIC BENEATH VAULT, EXTEND 12" BEYOND VAULT WALLS (TYP).
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| EQUIPMENT NOTES ARROWCREEK BPS | | |
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| TAG | DESCRIPTION | DETAIL |
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| 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 | |
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| 19 | 6" RESTRAINED FLANGE ADAPTER (ANSI CLASS 300) | |
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| 31 | 10" RFA | |
| 32 | 10" FLG RESILIENT WEDGE GV | |
| 33 | 2" TANK DRAIN W/ 2" NPT WELDD-O-LET, NIPPLE, BV, & HOSE BIB | |
| 34 | 6" DI FLG 90° ELBOW | |
| 35 | 4" DI FLG 90° ELBOW | |
| 36 | 6" DI FLG PIPE (12" LONG) | |
| 37 | 4" DI FLG PIPE (12" LONG) | |
| 38 | 10" FLG X PE FEL&C STL (ANSI CLASS 300) W/ (3) 1/2" NPT WELD-O-LET & (2) 1/2" NIPPLE, & BV ASSEMBLIES | |
| 39 | 10" FLG X PE CL 350 DI PIPE W/ (1) 1/2" NPT THREAD-O-LET, NIPPLE, & BV ASSEMBLY (ANSI CL 300 FLG) | |
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| 45 | 1" SOLENOID BV W/ MICRO SWITCH | |

| REVISION | DESCRIPTION | BY | APP | DATE |
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| WORK ORDER NO. | 10-0002 |
| DESIGNED | JPB/DAD |
| DRAWN | AAA |
| DATE | JULY 2015 |
| CHECKED | RLK |
| SUBMITTED | |
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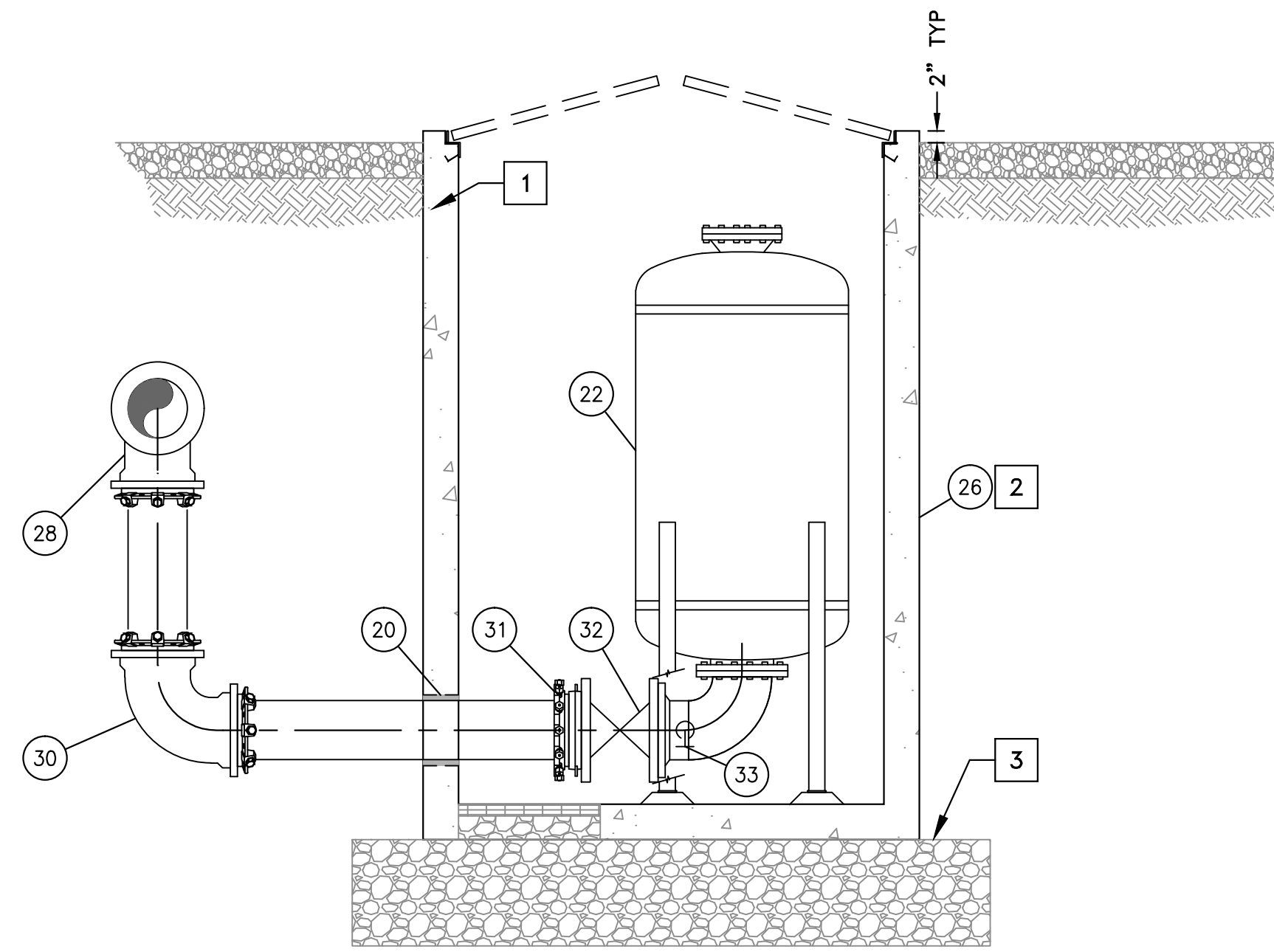
TRUCKEE MEADOWS WATER
 AUTHORITY
 1355 CAPITAL BLVD. / PO BOX 30013
 RENO, NEVADA 89520-3013
 PH 775-834-8080 / FX 775-834-8003

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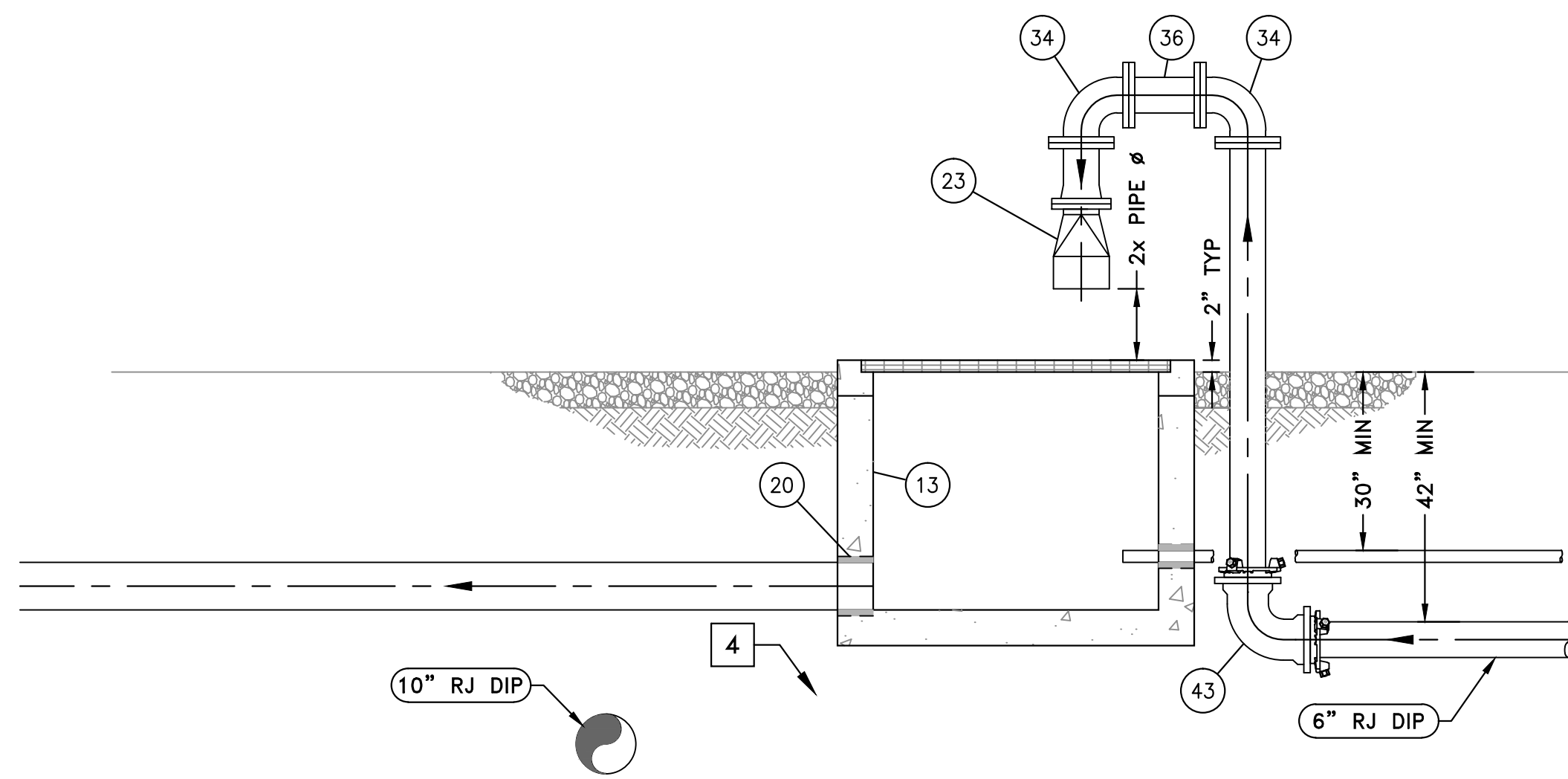
TMWA ARROWCREEK DROUGHT RESPONSE DESIGN PROJECT
ARROWCREEK BPS MECHANICAL SECTIONS

SHEET NUMBER
M602
38 OF 64

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A MECHANICAL SECTION
M603 1/2" = 1'-0"



B MECHANICAL SECTION
M603 1/2" = 1'-0"

| EQUIPMENT NOTES ARROWCREEK BPS | | |
|--------------------------------|--|-----------|
| TAG | DESCRIPTION | DETAIL |
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| 32 | 10" FLG RESILIENT WEDGE GV | |
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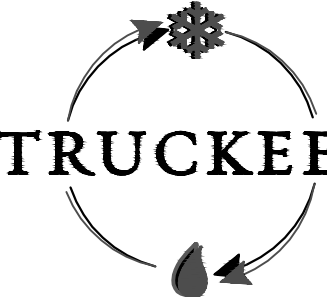
MECHANICAL SHEET NOTES:

1. PROVIDE 12" 1-SACK CONCRETE (MIN) SURROUNDING PUMP CAN ASSEMBLY & 12" BELOW FLANGES.
2. PROVIDE SPRAY FOAM INSULATION ON CEILING, ACCESS HATCH, & WALLS 2' BELOW SURFACE.
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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.
7. ALL NON-BURIED DIP & DIP FITTINGS SHALL BE FACTORY COATED WITH RED PRIMER, CONTRACTOR TO PROVIDE FINISH COATINGS PER SPECIFICATIONS.

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| REVISION | DESCRIPTION | BY | APP | DATE |
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| WORK ORDER NO. | 10-0002 |
| DESIGNED | JPB/DAD |
| DRAWN | AAA |
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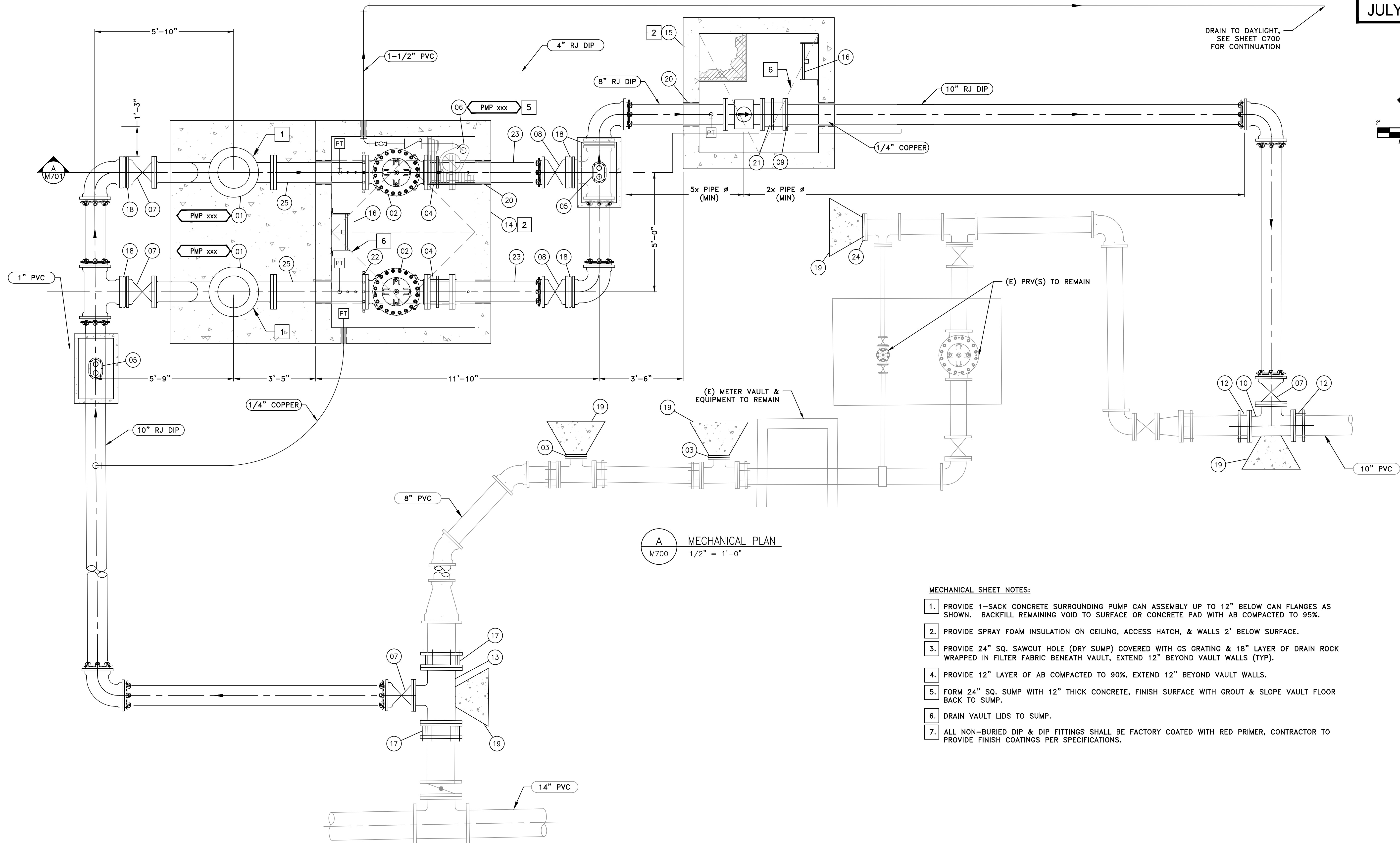
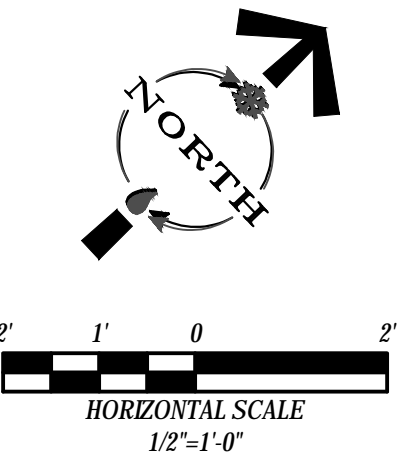


TRUCKEE MEADOWS WATER
 AUTHORITY
 1355 CAPITAL BLVD. / PO BOX 30013
 RENO, NEVADA 89520-3013
 PH 775-834-8080 / FX 775-834-8003

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 SECTIONS

SHEET NUMBER
M603
39 OF 64



A MECHANICAL PLAN
M700 1/2" = 1'-0"

MECHANICAL SHEET NOTES:

1. PROVIDE 1-SACK CONCRETE SURROUNDING PUMP CAN ASSEMBLY UP TO 12" BELOW CAN FLANGES AS SHOWN. 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) COVERED WITH GS GRATING & 18" LAYER OF DRAIN ROCK WRAPPED IN FILTER FABRIC BENEATH VAULT, EXTEND 12" BEYOND VAULT WALLS (TYP).
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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.
7. ALL NON-BURIED DIP & DIP FITTINGS SHALL BE FACTORY COATED WITH RED PRIMER, CONTRACTOR TO PROVIDE FINISH COATINGS PER SPECIFICATIONS.

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| REVISION | DESCRIPTION | BY | APP | DATE |
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|----------------|-----------|
| WORK ORDER NO. | 10-0002 |
| DESIGNED | JPB/DAD |
| DRAWN | AAA |
| DATE | JULY 2015 |
| CHECKED | RLK |
| SUBMITTED | |
| RECOMMENDED | |
| APPROVED | |

TRUCKEE MEADOWS WATER AUTHORITY

1355 CAPITAL BLVD. / PO BOX 30013
RENO, NEVADA 89520-3013
PH 775-834-8080 / FX 775-834-8003

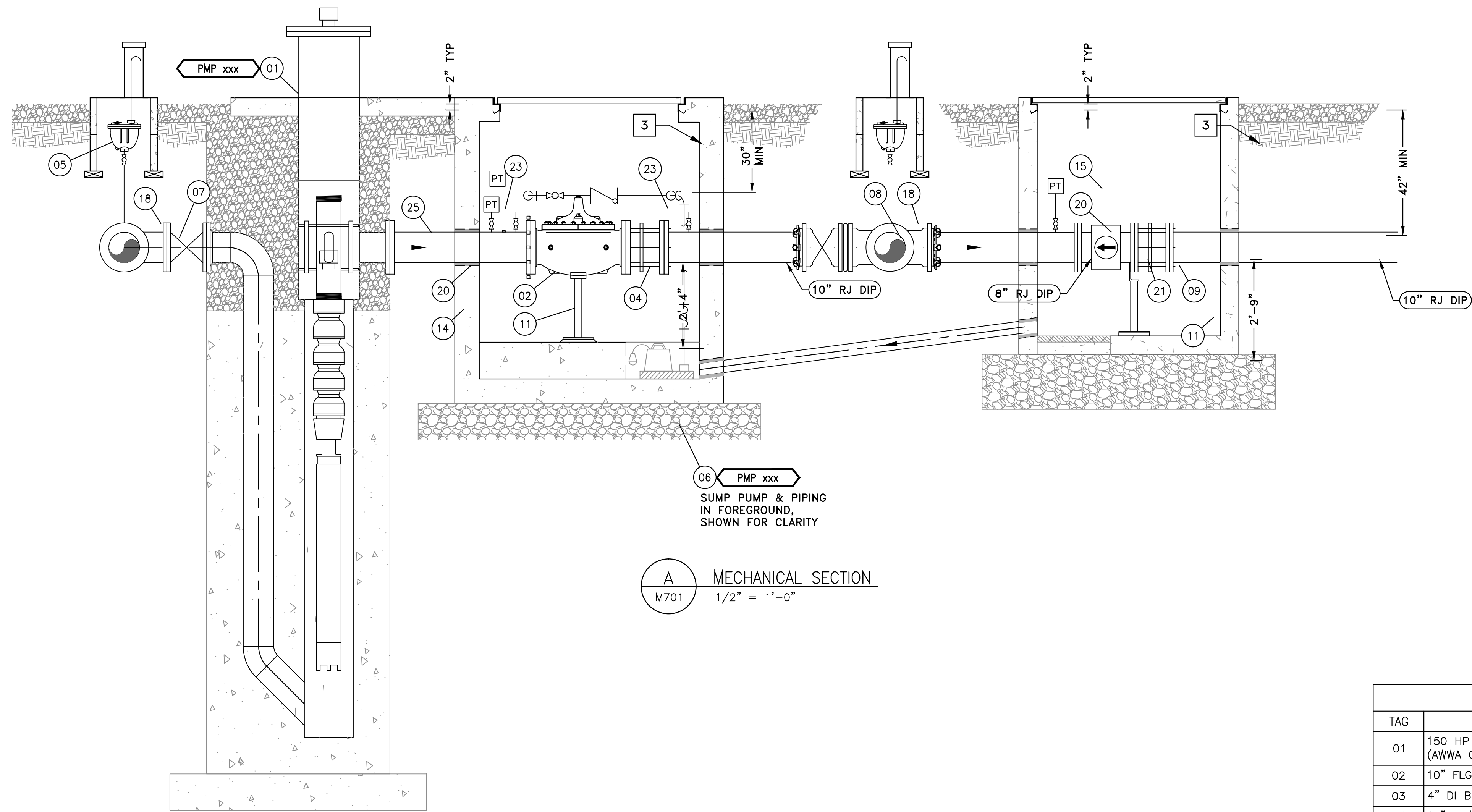
NOT REPRODUCIBLE

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 |
| 40 OF 64 | |



06 PMP xxx
SUMP PUMP & PIPING
IN FOREGROUND,
SHOWN FOR CLARITY

A MECHANICAL SECTION
M701 1/2" = 1'-0"

EQUIPMENT NOTES COPPER CLOUD BPS

| TAG | DESCRIPTION | DETAIL |
|-----|--|------------|
| 01 | 150 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" FLG DI TEE | |
| 14 | 8'-0" x 6'-0" H-20 RATED PRECAST CONCRETE VALVE VAULT W/ 6'-0" x 6'-0" (CLEAR OPEN)AL DOUBLE DOOR ACCESS HATCH, SPRING ASSISTED & SELF DRAINING TO SUMP | |
| 15 | 4'-0" x 4'-0" PRECAST CONCRETE METER/VALVE VAULT W/ 4'-0" x 4'-0" (CLEAR OPEN) AL SINGLE DOOR ACCESS HATCH, SPRING ASSISTED & SELF DRAINING TO SUMP | |
| 16 | AL ACCESS LADDER W/ LADDER-UP OPTION | |
| 17 | 14" FCA | |
| 18 | 10" MJ x MJ ADAPTER | |
| 19 | THRUST BLOCK | 10L-2/C002 |
| 20 | PIPE PENETRATION | M302/TYP |
| 21 | 8" DISMANTLING JOINT | |
| 22 | 1/4" PRESSURE TRANSDUCER ASSEMBLY W/ 1/4" BRONZE VALVE | |
| 23 | PRESSURE GAUGE CONNECTION ASSEMBLY | |
| 24 | 8" DI BLIND FLANGE | |
| 25 | 10" FLG x FLG DI PIPE SPOOL (AWWA CLASS 250 FLANGES) | |

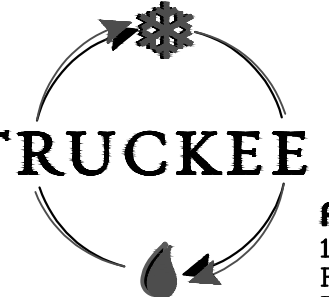
MECHANICAL SHEET NOTES:

1. PROVIDE 1-SACK CONCRETE SURROUNDING PUMP CAN ASSEMBLY UP TO 12" BELOW CAN FLANGES AS SHOWN. 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) COVERED WITH GS GRATING & 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.
7. ALL NON-BURIED DIP & DIP FITTINGS SHALL BE FACTORY COATED WITH RED PRIMER, CONTRACTOR TO PROVIDE FINISH COATINGS PER SPECIFICATIONS.

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TMWA ARROWCREEK DROUGHT RESPONSE DESIGN
PROJECT
COPPER CLOUD BPS
MECHANICAL SECTIONS

SHEET NUMBER
M701
 41 OF 64