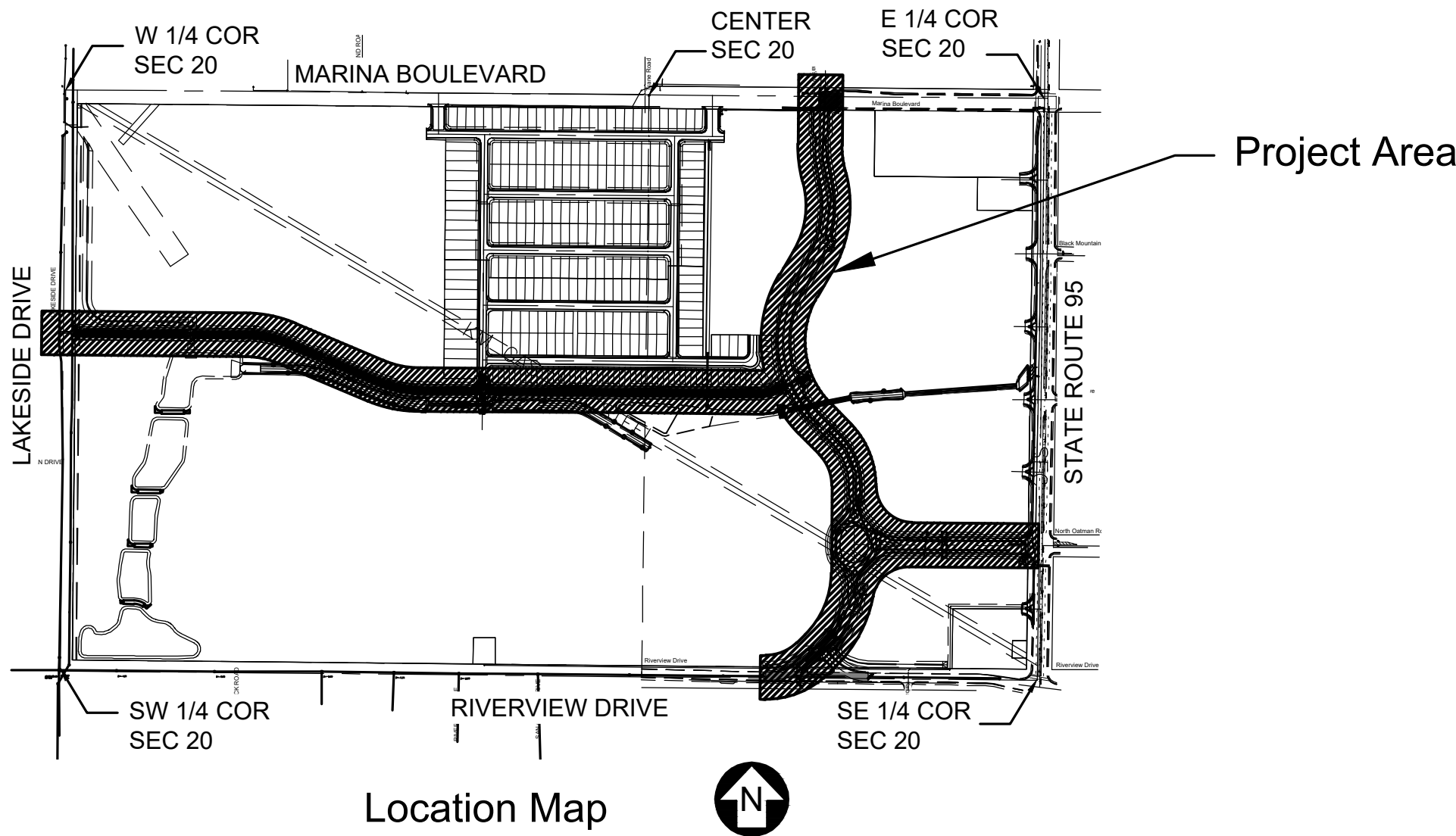


City Centre Improvement District

Water Plan
26-PW-002

General Notes

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE CORRECT PERMITS FROM THE RESPONSIBLE GOVERNMENT AGENCY. ALL ONSITE CONSTRUCTION WILL BE INSPECTED BY THE COMMUNITY DEVELOPMENT DEPARTMENT. JURISDICTION FOR ALL OFFSITE CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY IS INSPECTED BY THE BULLHEAD CITY PUBLIC WORKS DEPARTMENT.
- THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS FOR TRAFFIC CONTROL AND BARRICADING AS PER THE CITY OF BULLHEAD CITY TRAFFIC BARRICADE MANUAL.
- BACK-FILL AND COMPACTION WITHIN CITY OF BULLHEAD CITY RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH CITY OF BULLHEAD CITY STANDARDS.
- THE CONTRACTOR WILL UNCOVER ALL EXISTING LINES BEING TIED INTO TO VERIFY THEIR LOCATION. THE CONTRACTOR WILL LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINE, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION.
- LOCATION OF ALL VALVES MUST BE REFERENCED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION.
- THE CONTRACTOR SHALL KEEP SUITABLE EQUIPMENT ON HAND AT THE JOB SITE FOR MAINTAINING DUST CONTROL, AND SHALL CONTROL DUST AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, ALLAY DUST, AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT THE ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITIONS AT ALL TIMES.
- WATER/SEWER SEPARATION MUST CONFORM TO ARIZONA ADMINISTRATIVE CODE (AAC) R18-5-502C (LATEST REVISION).
- THE CONTRACTOR IS TO CONTACT THE ENGINEER PRIOR TO CONSTRUCTION IF A CONFLICT OR DISCREPANCY IS FOUND IN THESE PLANS
- ALL WORK SHALL BE IN ACCORDANCE WITH MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD SPECIFICATIONS AND DETAILS UNLESS OTHERWISE STATED ON PLANS.
- IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODE (AAC) R18-5-504, ALL MATERIALS ADDED AFTER JANUARY 1, 1993 WHICH COMES INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.
- ALL WATER LINES SHALL BE SEPARATED FROM SEWER LINES PER R-18-5-502.C.
- ALL WATER LINES SHALL BE DISINFECTED ACCORDING TO ADEQ BULLETIN No. 8 OR AWWA C-651-92.
- ALL WATER LINES SHALL BE LEAKAGE TESTED ACCORDING TO ADEQ BULLETIN No. 10, PART 7.L.2 AND AWWA C-600-93 FOR DIP OR C605-94 FOR PVC.
- INSTALL VACUUM AIR RELEASE AT ALL HIGH POINTS IN THE DISTRIBUTION SYSTEM PER ADEQ ENGINEERING BULLETIN No. 10, PART 7.D.3.
- ALL FITTINGS INCLUDING TEES, VALVES, BENDS, HYDRANTS ETC. TO BE RESTRAINED WITH BULLHEAD CITY UTILITIES APPROVED MECHANICAL JOINT RESTRAINTS WITH LENGTHS PER M.A.G. 303.



Location Map

Developer

CSQ H95 LLLP
2580 HWY 95, SUITE 215
BULLHEAD CITY, AZ 86442

Project Engineer

DON N. ANDERSON
P.E. NO. 11289
R.L.S. NO. 16098
ANDERSON-NELSON, INC.
4143 N. 12TH STREET
PHOENIX, AZ 85014
PHONE: (602) 273-1850

Assessor's Parcel No.

220-01-031

Sheet Index

- 1 COVER SHEET
- 2-3 DETAILS
- 4 WATER PLANS

Water Quantities

8" DIA. WATER LINE, C900 DR14	3,429 L.F.
8" DIA. WATER LINE, D.I.P.	776 L.F.
8" VALVE, BOX AND COVER	20 EA.
10" DIA. WATER LINE, C900 DR14	3,096 EA.
10" DIA. WATER LINE, D.I.P.	834 EA.
10" VALVE, BOX AND COVER	10 EA.
FIRE HYDRANT ASSEMBLY	7 EA.
2" IRRIGATION SERVICE	1 EA.
POTABLE CURB STOP (BLOW OFF)	17 EA.
POTABLE AIR RELEASE VALVE	7 EA.

Safety Notice to Contractor

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON, OR NEAR THE CONSTRUCTION SITE.

Engineers Notice to Contractor

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE DRAWINGS, ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE DRAWINGS. AND WE ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OF THEIR DEPICTED LOCATION ON THESE DRAWINGS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN, AND ALL OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE DRAWINGS BY VERIFICATION OF THEIR LOCATION IN THE FIELD PRIOR TO THE INSTIGATION OF THE ACTUAL PORTION OF THEIR WORK ATTRIBUTED TO THEIR LOCATION. THE QUANTITIES SHOWN ON THESE PLANS ARE FOR INFORMATION PURPOSES ONLY, AND ARE NOT TO BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

Survey Control

ALL BEARINGS AND DISTANCES SHOWN HEREON ARE DERIVED BY FIELD OBSERVED MEASUREMENTS, UTILIZING STATIC AND RTK METHODS.

COORDINATE SYSTEM: ARIZONA STATE PLANE
COORDINATES-ARIZONA WEST ZONE (0203)
DATUM: NORTH AMERICAN DATUM OF 1983.
GEOID MODEL: GEOID2018.
GRID, INTERNATIONAL FEET

Benchmark

BENCHMARK IS A BRASS CAP IN HAND HOLE AT THE INTERSECTION OF TRANE ROAD AND MARINA BLVD.
577.63 N.A.V.D. 88

Basis of Bearing

THE BEARING SOUTH 00°31'40" WEST BEING THE SOUTHWEST, WEST QUARTER SECTION LINE OF SECTION 20, TOWNSHIP 20 NORTH, RANGE 22 WEST, OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MOHAVE COUNTY, ARIZONA; ALSO BEING THE CENTERLINE OF LAKESIDE DRIVE BASED ON MOHAVE COUNTY ASSESOR'S MAP "LEASED B.L.M. LAND." BOOK 220 OF MAPS 01 AS RECORDED IN THE MOHAVE COUNTY RECORDERS OFFICE.

FEMA Requirements

PROPERTY IS LOCATED IN ZONE "X" AS DEPICTED ON THE FIRM COMMUNITY PANEL NUMBER 04015C4751G, DATED NOVEMBER 18, 2009.

Approvals

THIS PLAN WAS APPROVED BY THE BULLHEAD CITY ENGINEERING DEPARTMENT,
BULLHEAD CITY, ARIZONA, _____ DAY OF _____, 2026.

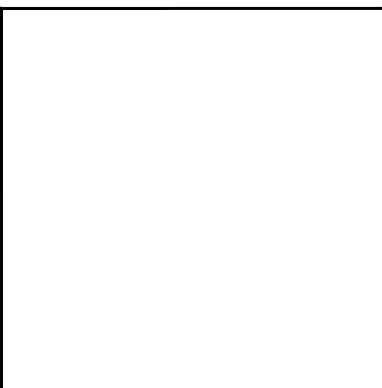
CITY OF BULLHEAD CITY:

BY: _____
BULLHEAD CITY ENGINEERING DEPARTMENT

Water/sewer "As-built" Certification

I HEREBY CERTIFY THAT THE "AS-BUILT" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED, AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AFTER DUE REVIEW.

Seal



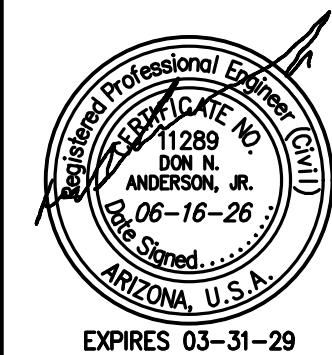
Know what's below.
Call before you dig.
Call 811 or visit Arizona811.com

City Centre Improvement District

Anderson - Nelson, Inc.
Engineering - Surveying - Site Grading Plans - Subdivision Development - Hydrology
Construction Management - Computer Services

4143 N. 12th St., Suite 200
Phoenix, Arizona 85014
(602) 273-1850
Bullhead City, AZ (928) 704-4677

DESIGNED	DRAWN	APPROVED	DATE	REVISIONS	BY	DATE



CALL TWO WORKING DAYS BEFORE YOU DIG
1 800 STAKE-IT
1 800 782-5348
(OUTSIDE MARICOPA COUNTY)

SHEET
W1 OF 10
PROJ.#
BOX _____ TUBE _____

Water Plan

City Centre Improvement District

Water Plan
26-PW-002

GENERAL NOTES

- ANY CHANGES FROM APPROVED PLANS SHALL BE SUBMITTED TO THE BULLHEAD CITY UTILITIES DEPARTMENT FOR WRITTEN APPROVAL PRIOR TO INSTALLATION.
- CONTRACTOR SHALL KEEP A CLEAN, CURRENT SET OF CONTRACT DRAWINGS AS A RECORD OF THE LOCATION OF ALL WORK COMPLETED AS PART OF THE PROJECT. REVISIONS, ADDITIONS, AND DELETIONS SHALL BE ANNOTATED ON THE RECORD SET OF DRAWINGS IN RED.
- CONTRACTOR SHALL ENSURE THAT SURVEY-GRADE GPS EQUIPMENT IS USED TO RECORD NORTHING, EASTING, AND ELEVATION DATA FOR ALL BURIED APPURTENANCES, FOR WATER MAINS, REUSE LINES AND WATER MAINS APPURTENANCES TO BE LOCATED INCLUDE VALVES, CROSSES, BIES, BENDS, REDUCERS, AND OTHER FITTINGS AS REQUIRED BY THE CONSTRUCTION INSPECTOR. FOR SEWER MAINS, APPURTENANCES INCLUDE THE RIM AND INVERT ELEVATIONS OF MANHOLES, CLEAN-OUTS AND OTHER FEATURES AS REQUIRED. GPS COORDINATES WILL UTILIZE THE NORTH AMERICAN DATUM (NAD) 1983, STATE PLANE ARIZONA WEST ZONE IN MOHAVE COUNTY. ALL UNITS WILL BE IN US FEET. PRIOR TO COMPLETION OF THE WORK, PROVIDE THE RED-LINED DRAWINGS TO THE ENGINEER OF RECORD FOR PREPARATION OF THE PROJECT RECORD DRAWINGS. FINAL COMPLETION WILL NOT BE MADE UNTIL THE ENGINEER OF RECORD RECEIVES SATISFACTORY, RED-LINED DRAWINGS.
- CONTRACTOR SHALL NOTIFY THE CITY'S CONSTRUCTION INSPECTIONS DEPARTMENT 48 HOURS IN ADVANCE OF ANY CONSTRUCTION. USE THE CONTACT LIST IN THE CITY'S DEVELOPER GUIDE TO SCHEDULE INSPECTION (THE CITY'S GENERAL PHONE NUMBER IS 928-763-9400). WHEN APPOINTMENTS FOR INSPECTION ARE ARRANGED AT LEAST 48 HOURS IN ADVANCE, THE INSPECTION/TEST WILL BE CONDUCTED AS SCHEDULED, OTHERWISE THE REQUEST WILL BE SCHEDULED E BASED ON AVAILABILITY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED PERMITS AND INSPECTIONS FROM APPROPRIATE GOVERNMENTAL AGENCIES FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY (CITY ENGINEERING DEPARTMENT, ETC.). INSPECTIONS BY THE CITY DO NOT RELIEVE CONTRACTOR OF RESPONSIBILITY TO OBTAIN REQUIRED INSPECTIONS FROM OTHER INTERESTED GOVERNMENTAL AGENCIES (BUILDING SAFETY, FIRE DISTRICT, ETC.).
- ALL WORK AND TESTING SHALL BE IN ACCORDANCE WITH MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) STANDARD SPECIFICATIONS AND DETAILS UNLESS OTHERWISE STATED ON PLANS.
- ALL POTABLE WATERLINES AND FITTINGS SHALL HAVE NSF-PW SEAL. ALL MATERIALS AND PRODUCTS USED IN THE POTABLE WATER SYSTEM SHALL CONFORM TO NSF STANDARDS 60 AND 61 IN ACCORDANCE WITH AAC R18-4-213. ALL MATERIALS SHALL BE LEAD-FREE AS DEFINED IN AAC R18-4-101 AND R18-4-107.
- PIPE SEPARATION: HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LINES WILL BE A MINIMUM OF 6 FEET FROM OUTSIDE EDGE TO OUTSIDE EDGE OF PIPE. TWO FEET VERTICAL SEPARATION IS REQUIRED BETWEEN WATER LINES, STORM DRAINS, AND DRY UTILITIES.

Date:
November 2022



2355 Trane Rd.
Bullhead City, AZ. 86442
(928) 763-9400

General Notes

Detail No.
100-1

BACKFLOW PREVENTION GENERAL NOTES:

- BACKFLOW PREVENTION DEVICES: ALL LANDSCAPE AND COMMERCIAL WATER SERVICES REQUIRE BACKFLOW PREVENTION DEVICES, MEETING THE REQUIREMENTS OF THE CITY. BACKFLOW DEVICES SHALL BE IN PLACE PRIOR TO METERS BEING SET. TESTING OF THE BACKFLOW DEVICES MAY BE COMPLETED AFTER THE INSTALLATION OF THE METER.
- CONTACT UTILITY WATER QUALITY SPECIALIST (BACKFLOW PREVENTION) AT WATERQUALITYSPECIALIST@BULLHEADCITYAZ.GOV OR (928) 763-9400 FOR APPROVED ASSEMBLY LIST, INSPECTIONS, AND TESTING.
- USE ONLY A UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH (USCC) APPROVED ASSEMBLY.
- BACKFLOW PREVENTION ASSEMBLIES SHALL HAVE A CERTIFICATE OF APPROVAL ISSUED BY USCC/FCOCHRL OR OTHER APPROVED THIRD-PARTY CERTIFYING ENTITY UNRELATED TO THE PRODUCT MANUFACTURER OR VENDOR, IN ACCORDANCE WITH AAC R18-4-215. ALL ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY STANDARD DETAILS. NO ASSEMBLY SHALL BE PLACED IN SERVICE UNLESS IT HAS BEEN TESTED AND IS FUNCTIONING AS DESIGNED. A CERTIFIED TEST SHALL BE SUBMITTED TO THE CITY WATER QUALITY SPECIALIST (BACKFLOW PREVENTION) AT WATERQUALITYSPECIALIST@BULLHEADCITYAZ.GOV FOR APPROVAL. APPROVAL OF WATER FACILITIES WILL NOT BE GRANTED PRIOR TO BACKFLOW PREVENTION APPROVAL.
- LOCATE ASSEMBLY WITHIN 36 INCHES OF WATER METER UNLESS OTHERWISE DIRECTED BY UTILITY'S WATER QUALITY SPECIALIST.
- ALL PRESSURE VACUUM BREAKER ASSEMBLIES SHALL BE INSTALLED A MINIMUM OF 12 INCHES ABOVE ALL DOWNSTREAM PIPING AND OUTLETS.
- USE LEAD FREE SOLDER ONLY.
- WALL OR STRUCTURE: MINIMUM 36" ABOVE FINISH GRADE; MINIMUM 12" - MAXIMUM 24"

FIRE LINES:

- PROVIDE USAGE-TAMPER SWITCHES & WIRING TO ALARM SYSTEM WHERE REQUIRED BY FIRE DEPARTMENT. NOTE: FIRE LINES LONGER THAN 75' REQUIRE BACKFLOW ASSEMBLY AT PROPERTY LINE OR THE CITY APPROVED LOCATION. SUCH FIRE LINES SHALL HAVE BACKFLOW PREVENTION ASSEMBLIES WITH A METERED BYPASS.

APPROVAL PROCESS FOR BACKFLOW PREVENTION ASSEMBLIES:

- ALL NEW BACKFLOW PREVENTION ASSEMBLIES (BPAS) SHALL BE TESTED AND FUNCTIONING AS DESIGNED PRIOR TO APPROVAL IN ACCORDANCE WITH AAC R18-4-215.
- DEVELOPER/CONTRACTOR/CUSTOMER SHALL FORWARD PASSING TEST REPORT WITH REQUIRED BPA INFORMATION TO THE CITY WATER QUALITY SPECIALIST, MARKED PENDING APPROVAL.
- THE CITY WATER QUALITY SPECIALIST (BACKFLOW PREVENTION) WILL NOTIFY DEVELOPER SERVICES THAT AN APPROVED BACKFLOW PREVENTION ASSEMBLY TEST HAS BEEN RECEIVED, AND THIS PROJECT IS READY FOR AN APPROVAL INSPECTION.
- AN ENGINEERING INSPECTOR THEN SCHEDULES AN APPROVAL INSPECTION WITH THE DEVELOPER/CONTRACTOR/CUSTOMER.

Date:
November 2022



2355 Trane Rd.
Bullhead City, AZ. 86442
(928) 763-9400

BACKFLOW PREVENTION GENERAL NOTES BACKFLOW PREVENTION APPROVAL PROCESS WATER SYSTEM MATERIAL SPECIFICATION

Detail No.
100-2

APPROVAL PROCESS FOR BACKFLOW PREVENTION ASSEMBLIES (CONTINUED):

- THE CITY ENGINEERING INSPECTOR CONFIRMS PRESENCE OF BPA AND CONFIRMS PROPER INSTALLATION GUIDELINES HAVE BEEN FOLLOWED.
- BACKFLOW PREVENTION APPROVAL PROCESS COMPLETE.
- APPROVAL MAY BE GRANTED PROVIDED ALL OTHER REQUIRED OPERATION INSPECTION ITEMS HAVE NO DEFICIENCIES.

WATER SYSTEM MATERIAL SPECIFICATION: DISTRIBUTION PIPING:

- C800 POLYVINYL CHLORIDE (PVC) IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARD C900 FOR PIPE DIAMETERS THRU 12"; DR-14; ELASTOMERIC GASKET; BELL-END OR RESTRAINED JOINTS.
- DUCTILE IRON PIPE, MORTAR-LINED (DIP) SHALL BE USED FOR PIPE DIAMETERS GREATER THAN 12".
- DUCTILE IRON PIPE, MORTAR-LINED (DIP) IN ACCORDANCE WITH AWWA STANDARDS C150 & C151 MORTAR LINING SHALL BE IN ACCORDANCE WITH AWWA C104. ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE WRAPPED FOR THE ENTIRE LENGTH IN ACCORDANCE WITH MAG SEC. 610.8. 6" THROUGH 14" DIAMETER MUST BE PRESSURE CLASS 350 MINIMUM- 16" THROUGH 24" MUST BE PRESSURE CLASS 250 MINIMUM. 30" AND LARGER MUST BE PRESSURE CLASS 150 MINIMUM.
- CONCRETE PRESSURE PIPE, STEEL CYLINDER TYPE: IN ACCORDANCE WITH AWWA STANDARD C303 AND MAG SEC. 788 FOR PIPE DIAMETERS GREATER THAN 24".
- MANUFACTURER'S TECHNICAL DATA SHEETS SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL. SERVICE TAPS ARE NOT PERMITTED ON CONCRETE PRESSURE PIPE.

DISTRIBUTION FITTING:

- PUSH-ON OR MECHANICAL JOINT IN ACCORDANCE WITH AWWA C111 AND MAG SEC. 750.4. JOINT RESTRAINTS, WHERE REQUIRED, SHALL BE MECHANICAL RESTRAINED JOINT WITH PRODUCT APPROVED BY THE CITY OR FLANGED JOINT FOR LENGTHS IN ACCORDANCE WITH MAG STD. DET. 350-2. FIELD LOCK GASKETS ARE NOT ALLOWED.

WATER LINE VALVE:

- MUELLER, CLOW, WATEROUS, OR M&H RESILIENT WEDGE SEATED GATE VALVE IN ACCORDANCE WITH MAG SEC. 630.3 WITH VALVE BOX AND COVER IN ACCORDANCE WITH MAG STD. DET. 391-1 TYPE "C" MINIMUM LID WEIGHT OF 16LBS. VALVES INSTALLED OUTSIDE THE PAVEMENT OR IN THE FLOW LINE OF A ROADWAY SHALL HAVE A DEBRIS CAP INSTALLED PER MAG STD. DET. 392. BUTTERFLY VALVES ARE NOT ALLOWED WITHOUT THE CITY APPROVAL.
- AIR/VACUUM RELEASE VALVES ARE REQUIRED AT ALL HIGHPOINTS AND AT VERTICAL REALIGNMENTS OF THE WATER LINE.

CONTROL VALVES:

- THE EXTERNAL TUBING NEEDS TO BE STAINLESS STEEL, NOT COPPER. CL-VAL IS THE ONLY ACCEPTABLE MANUFACTURER.

WATER SYSTEM MATERIAL SPECIFICATION (CONTINUED):

TAPPING SLEEVE & VALVE:

- STAINLESS STEEL - APPROVED MANUFACTURERS FORD, ROMAC, AND SMITH-BLAIR OR APPROVED EQUAL.
- THE CITY MAY REQUIRE A BYPASS ON VALVES ON 12" OR LARGER PIPE. CONTACT THE CITY FOR APPROVAL ON A CASE-BY-CASE BASIS.

WATER SERVICE:

- FOR TAPS, PIPE, AND FITTINGS FOR WATER SERVICES THROUGH 2", THE SIZE SHALL BE IN ACCORDANCE WITH THE CITY'S STD. DET. 342-2. REQUESTS FOR LARGER SIZES MUST BE SUBMITTED FOR REVIEW AND APPROVAL. MINIMUM WATER SERVICE LINE SIZE DIAMETER SHALL BE 1".
- APPROVED SADDLES, ALL IRON PIPE THREAD TAP AND BRONZE STRAP- FOR PVC, JONES J-996, JONES J-998, MUELLER H-1000 SERIES FORD STYLE 580, FOR DUCTILE IRON PIPE, FORD 2008, JONES J-978, MUELLER BRON SERIES, MUELLER BRON SERIES.
- ALL BRASS FITTINGS SHALL BE MANUFACTURED BY FORD, MUELLER, OR JAMES JONES. ALL ANGLE METER STOPS SHALL INCLUDE LOCKING WINGS.
- ALL CORP STOPS AND ANGLE VALVES SHALL BE BALL STYLE. ALL FITTINGS SHALL BE "FACE-JOINT" TYPE.
- ALL BRASS SHALL BE LEAD FREE.
- CUSTOMER IS REQUIRED TO INSTALL AND MAINTAIN A SHUT OFF VALVE AND CHECK VALVE WITHIN 18" OF METER.
- SERVICE LINES SHALL BE ONE (1) PIECE WITH NO SPLICES FROM MAIN TO METER.

FIRE HYDRANTS:

- ALL HYDRANTS SHALL BE DRY BARREL AND BE MANUFACTURED BY MUELLER, OR CLOW 5 1/4" MAIN VALVE OPENING.
- ALL HYDRANTS SHALL BE EQUIPPED WITH NATIONAL STANDARD HOSE THREADS. HYDRANT COATING: "SAFETY YELLOW". COMPLETE HYDRANT PREPARATION PRIOR TO INSPECTION FOR PAINTING. INSPECTION IS ALSO REQUIRED AFTER PAINTING FOR CONTRACTOR TO RECEIVE FINAL ACCEPTANCE.
- PUMPER NOZZLE SHALL BE ORIENTED TO PROVIDE BEST ACCESSIBILITY FOR FIRE TRUCK. ALL HYDRANTS SHALL BE LUBRICATED WITH A FOOD-GRADE LUBRICANT, OR NSF 60 PRODUCT.
- DEAD END WATER MAINS SHALL HAVE A FIRE HYDRANT OR A BLOW OFF IN ACCORDANCE WITH CITY STD. DET. 390-1, BUT NOT BOTH.
- FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH THE CITY STD. DET. 360-1.

DIP SECTIONS:

- ALL DIP SECTIONS SHALL BE CONSTRUCTED OF RESTRAINED DUCTILE IRON PIPE (DIP) PER THE CITY'S STD. DET. 350-1. ALL DIP SECTIONS SHALL BE JOINT RESTRAINED DIP WITH POLYETHYLENE WRAP FOR THE ENTIRE LENGTH PER MAG SEC. 610.8. JOINT RESTRAINED LENGTHS WILL FOLLOW MAG STD. DET. 303-1 AND 303-2. ANCHOR BLOCK/THRUST BLOCKS MUST BE INSTALLED FOR VERTICAL BENDS PER MAG STD. DET. 381.
- AIR/VACUUM RELEASE VALVES ARE REQUIRED AT HIGHPOINTS AND AT VERTICAL REALIGNMENTS OF THE WATER LINE.

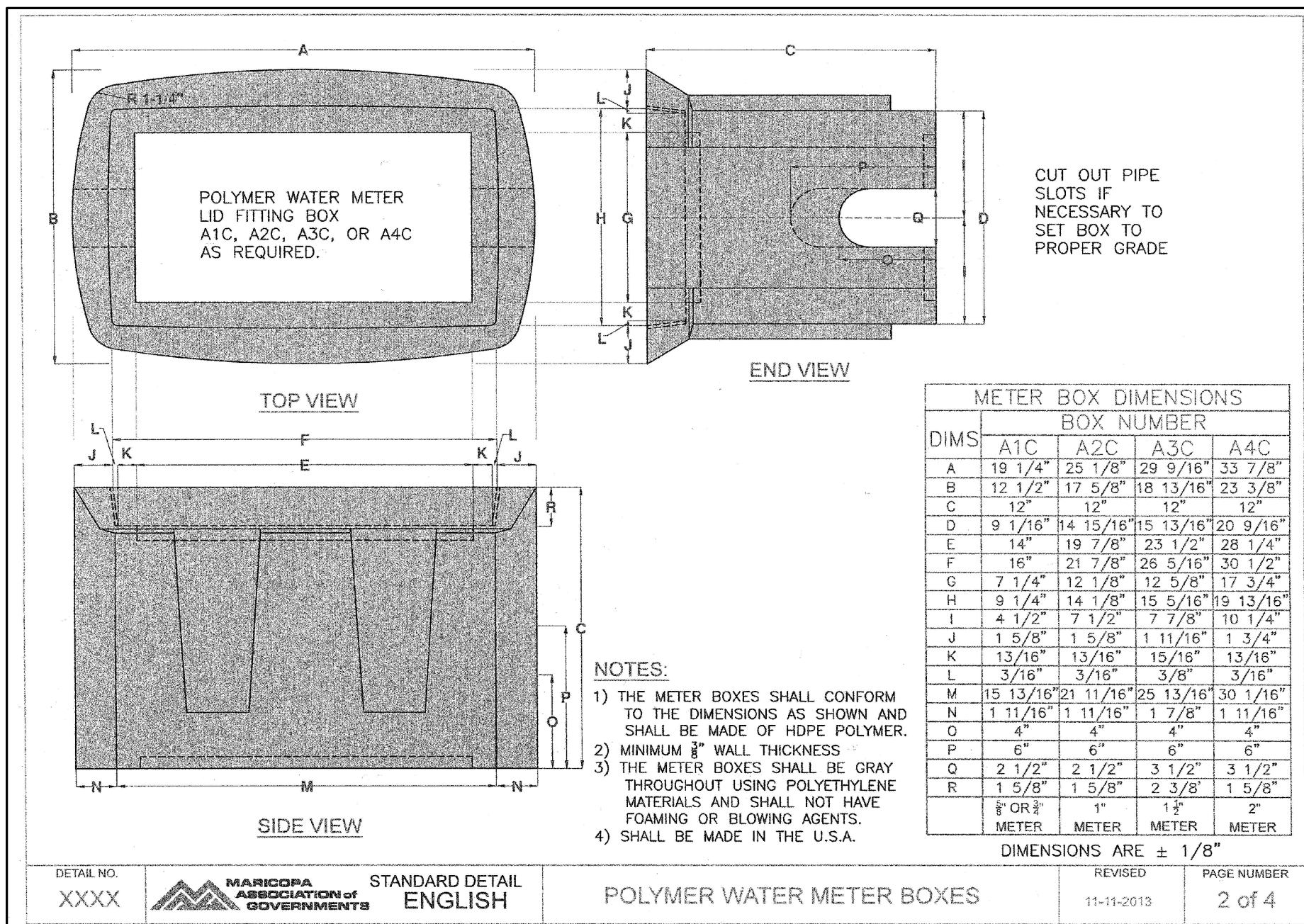
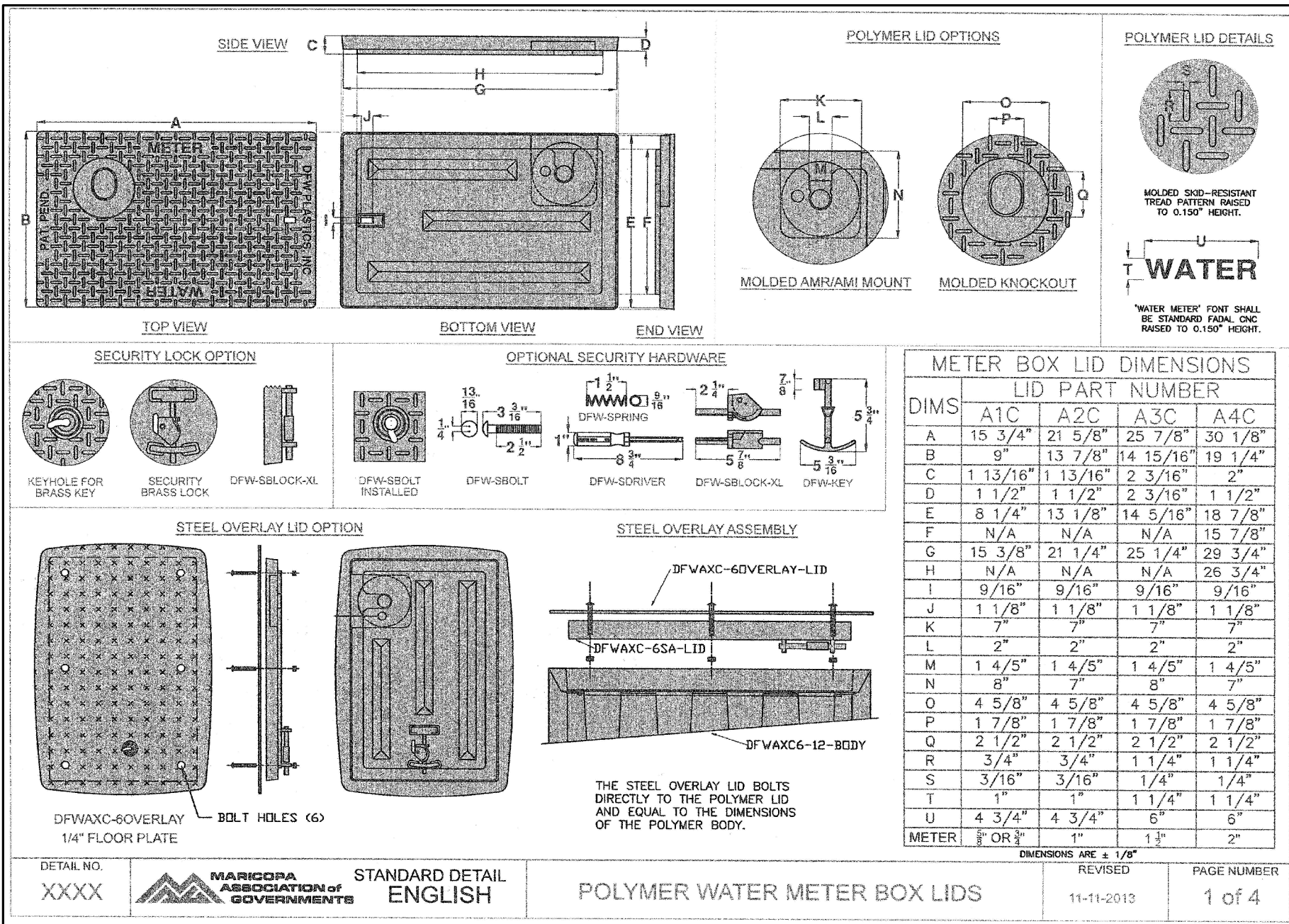
Date:
November 2022



2355 Trane Rd.
Bullhead City, AZ. 86442
(928) 763-9400

WATER SYSTEM MATERIAL SPECIFICATION

Detail No.
100-3



- BACKFILL**
- IN NON-SAW CUT AREAS TO BE NATIVE MATERIAL SCREENED AT 4" OR LESS.
 - IN SAW CUT AREAS TO BE ONE SACK ABC SLURRY OR AS SPECIFIED BY CITY.
 - COMPACTION TESTING REQUIRED TO 95%

DETECTABLE LOCATING BALLS

- SEE THE CITY'S STD. DET. 350-1. LOCATING BALLS MANUFACTURED BY OMNI, 3M OR APPROVED EQUAL MUST BE PLACED AT WATER MAIN ABOVE WATER SERVICE LINE.
- LOCATING BALLS SHOULD BE PLACED NO DEEPER THAN 4" BELOW GROUND SURFACE.

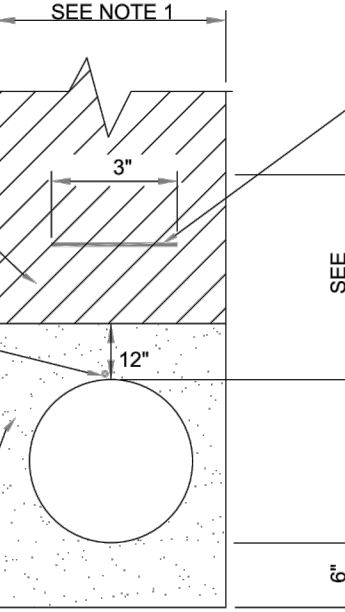
PIPE ZONE

FROM MIN. 6" BELOW BOTTOM OF PIPE TO MIN. 12" ABOVE TOP OF PIPE BACKFILL WITH THE FOLLOWING PER NOTE 4:

- PER NOTE 4:
- WATER LINES
 - SAND PER MAG 701.3
 - RECLAIMED WATER LINES
 - SAND PER MAG 701.3
 - SEWER FORCE MAIN
 - SAND PER MAG 701.3
 - GRAVITY SEWER LINES
 - ALL SERVICE AREAS - 3/4" MINUS ABC CRUSHED ROCK (NO REJECTS)

WATER AND SEWER SERVICES (ALL UTILITY SERVICE AREAS)

MINIMUM 6" SAND BEDDING AND 6" SAND SHADING. BACKFILL AS PER DETAIL.



PIPE MARKING TAPE

DETECTABLE MARKING TAPE SHALL BE LOCATED 18 INCHES BELOW GROUND SURFACE.

WORDING PER M.A.G. SEC. 816 TO BE USED FOR ALL WATER & RECLAIMED WATER LINES AND SERVICES. THE MARKING TAPE SHALL BE PRINTED ON STANDARD COLORED DETECTABLE TAPE. LETTERING SHALL BE BLACK, 1-1/2" HEIGHT MINIMUM.

RECLAIMED WATER LINES SHALL USE PURPLE TAPE & SHALL READ "CAUTION: RECLAIMED WATER LINE"

POTABLE WATER LINES SHALL USE BLUE TAPE & SHALL READ "CAUTION: POTABLE WATER LINE"

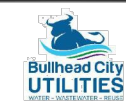
RAW & NON-POTABLE WATER LINES SHALL USE YELLOW TAPE & SHALL READ "RAW WATER MAINS" AND/OR "NON-POTABLE WATER MAINS"

SEWER AND SERVICE LINES SHALL USE GREEN TAPE & SHALL READ "CAUTION: SEWER LINE"

NOTES:

- TRENCH WILL BE IN ACCORDANCE WITH MAG SECTION 601.
- ONE SACK ABC SLURRY (CLM) TO BE IN ACCORDANCE WITH MAG SECTION 728.
- DEPTH OF BURY TO BE MIN. 48" IN ALL STREETS. DEPTH OF BURY FOR WATER LINES IN OTHER AREAS TO BE AS FOLLOWS:
 - 36" MIN. FOR MAINS 8" DIAMETER AND SMALLER
 - 48" MIN. FOR MAINS 10" DIAMETER AND LARGER
- WASHED, CRUSHED ROCK TO BE IN ACCORDANCE WITH MAG SECTION 716.2 AND TABLE 716.2.
 - SAND TO BE IN ACCORDANCE WITH MAG SECTION 701.3
 - ABC TO BE IN ACCORDANCE WITH MAG SECTION 702.2 AND TABLE 702-1
- SEE THE CITY'S STD. DET. 350-1. LOCATING BALLS MANUFACTURED BY OMNI, 3M OR APPROVED EQUAL MUST BE PLACED AT WATER MAIN ABOVE WATER SERVICE LINE.
- LOCATING BALLS SHOULD BE PLACED NO DEEPER THAN 4" BELOW GROUND SURFACE.

Date:
November 2022



2355 Trane Rd.
Bullhead City, AZ. 86442
(928) 763-9400

PIPE TRENCH DETAIL

Detail No.
350-1

City Centre Improvement District

4143 N. 12th St., Suite 200
Phoenix, Arizona 85014
(602) 273-1850
(602) 273-1850
Bullhead City, AZ (928) 704-4677

Anderson - Nelson, Inc.
Engineering - Surveying - Site Grading Plans - Subdivision Development - Hydrology
Construction Management - Computer Services

Water Plan



EXPIRES 03-31-29

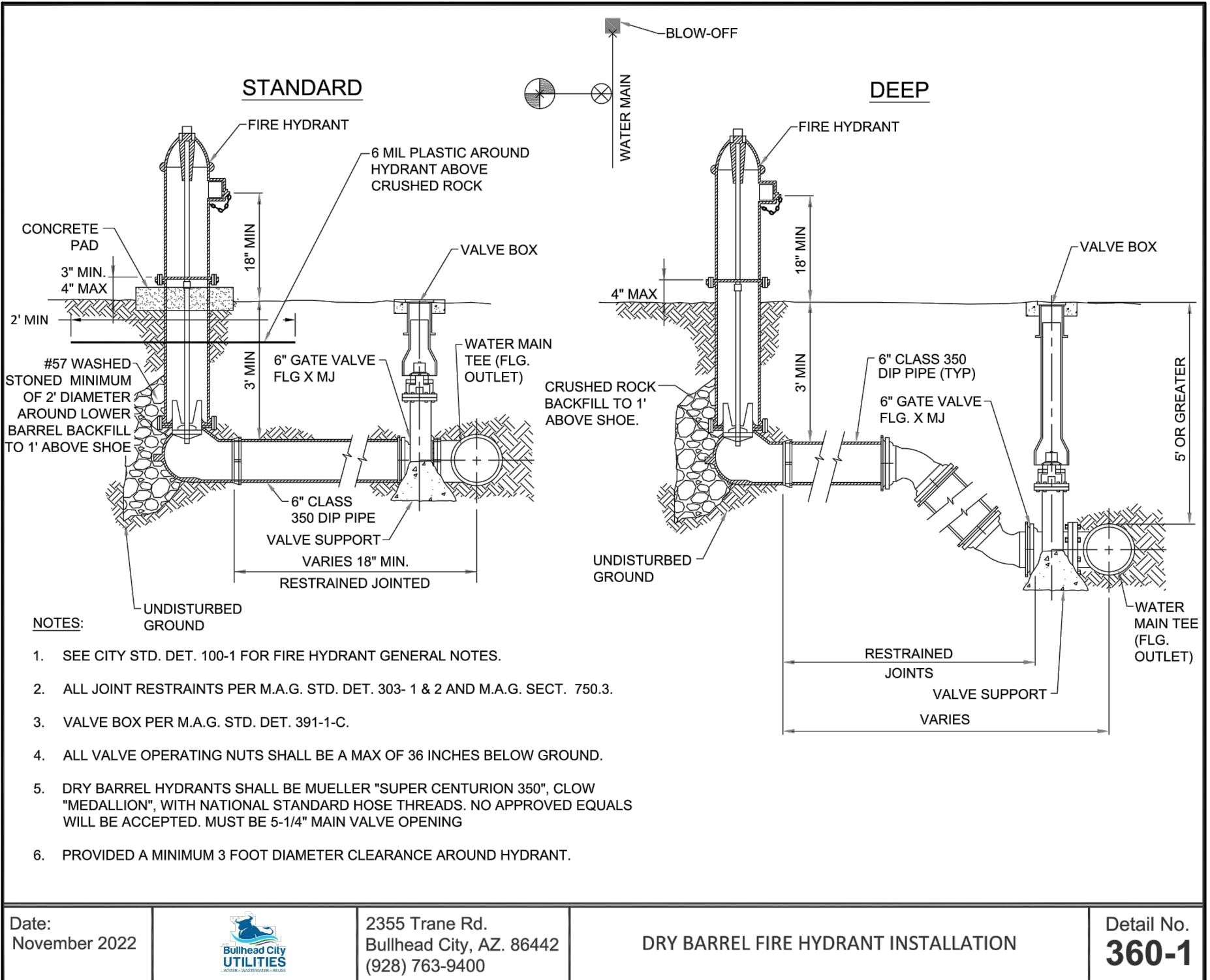
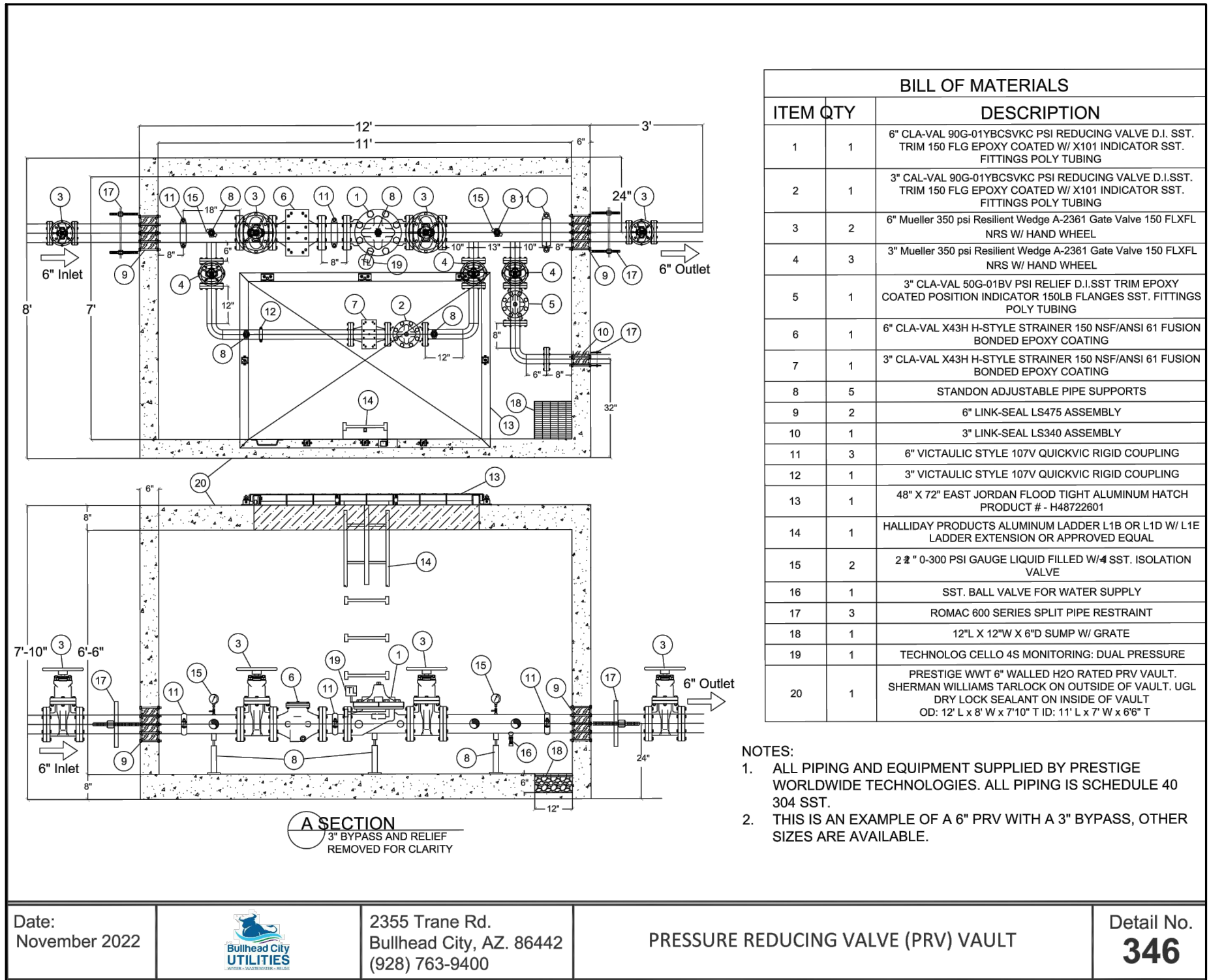
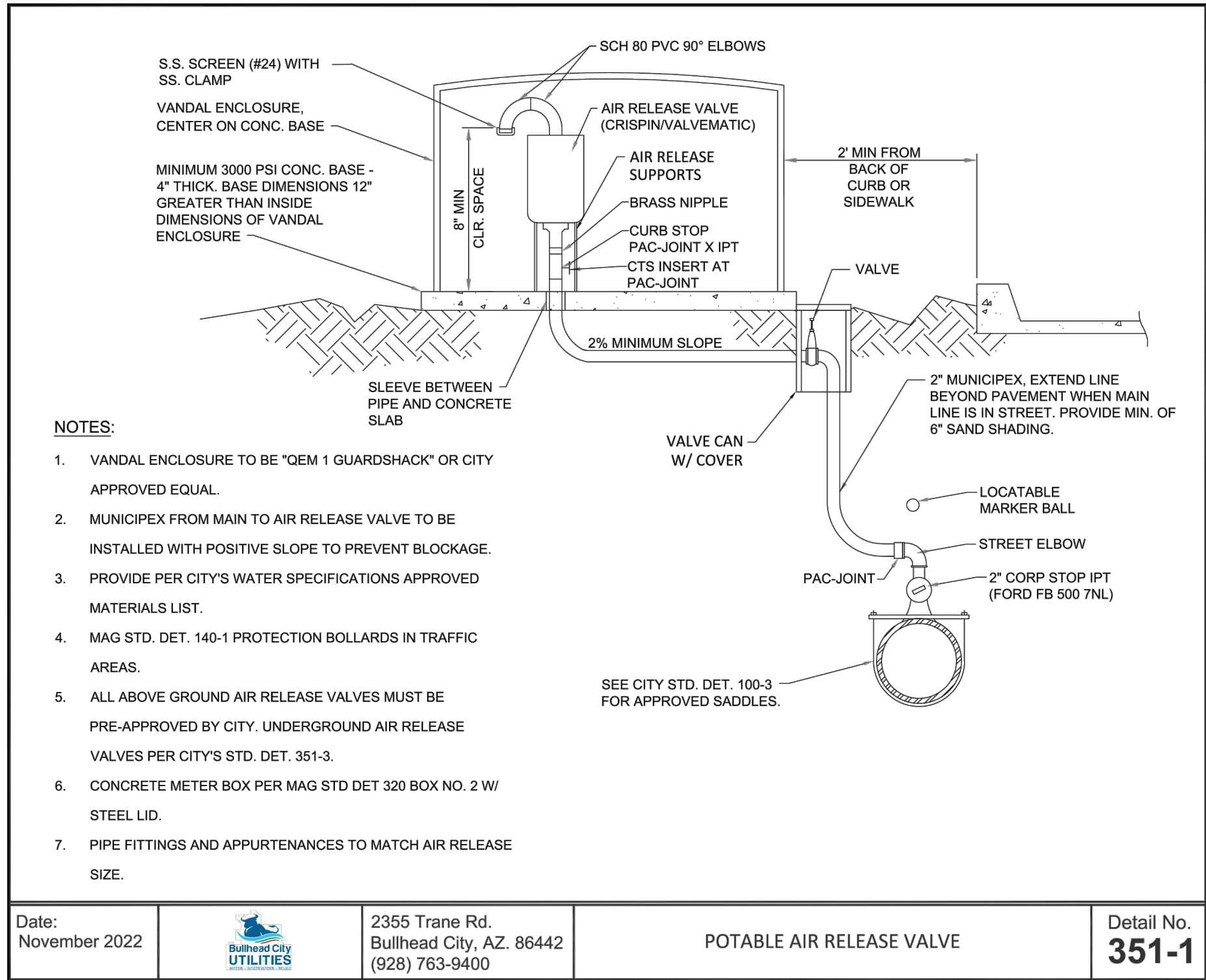
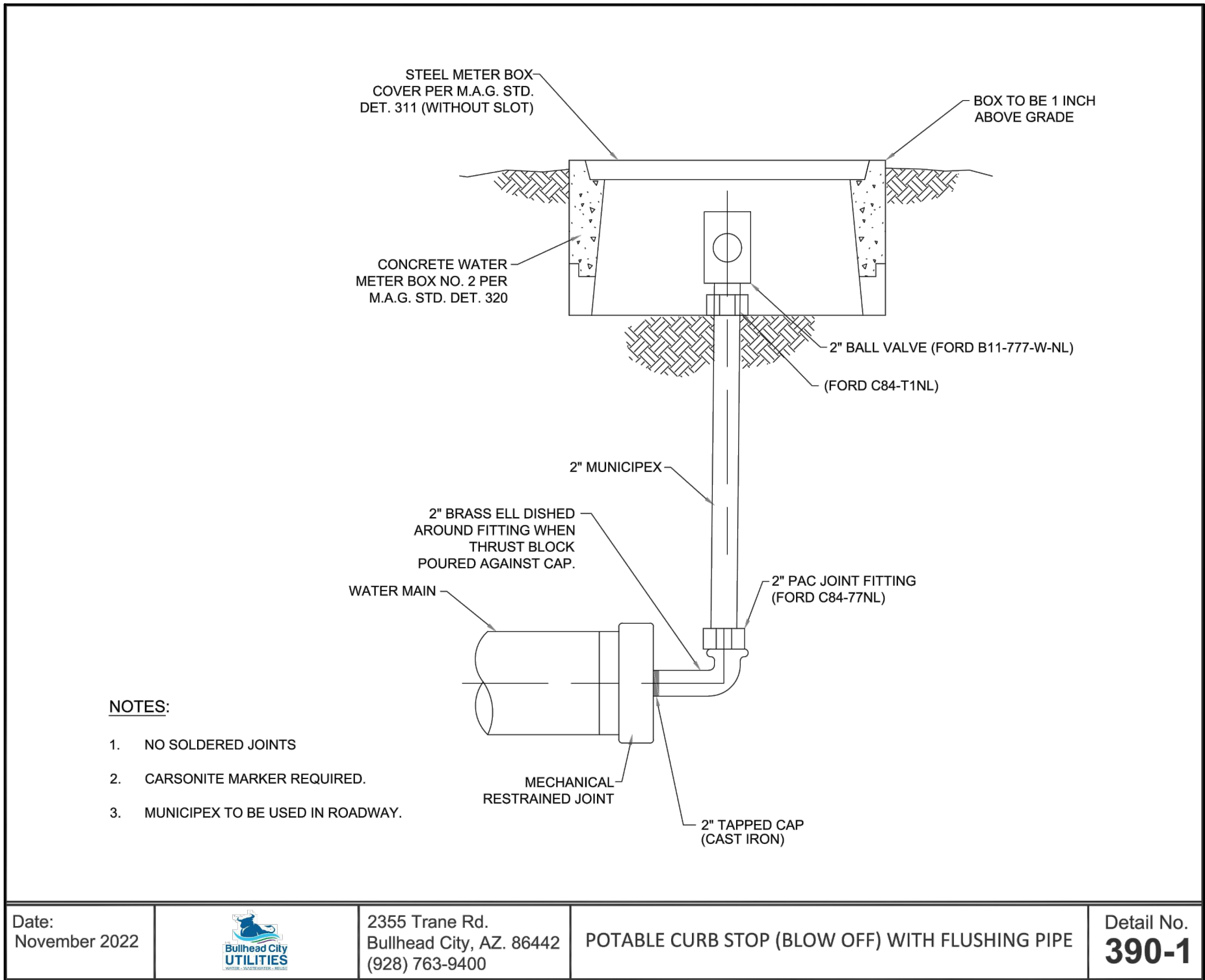
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SHEET
W2 OF 10

PROJ.# 8242.1
BOX TUBE

City Centre Improvement District

Water Plan
26-PW-002



City Centre Improvement District

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W3 OF **10**

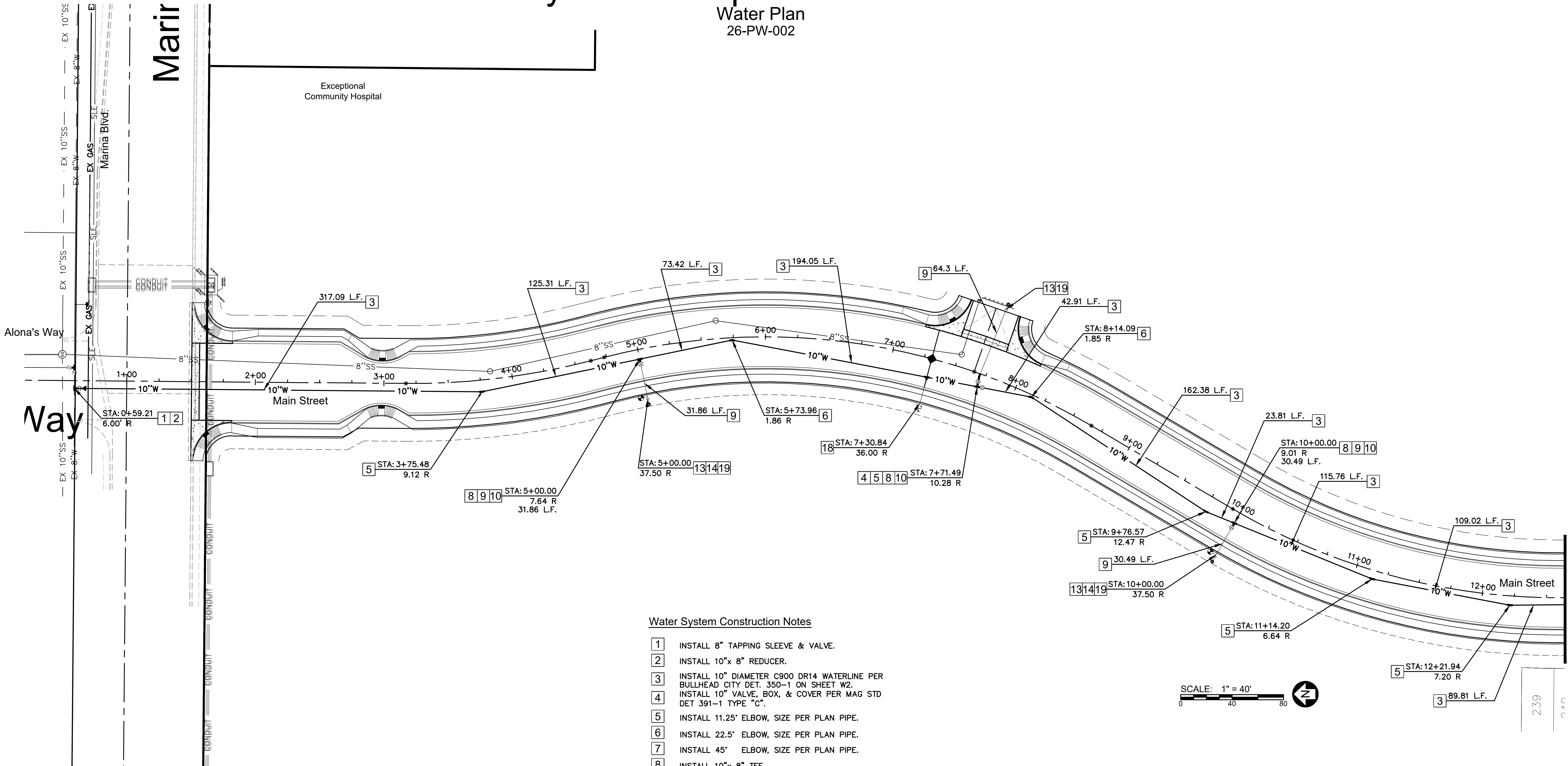
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BIT X\8242.1 City Center Master Utility & Drainage\8242.mxd WAT (03) 06-16-26 3:31 P.M.

City Centre Improvement District

Water Plan

26-PW-002



Water System Construction Notes

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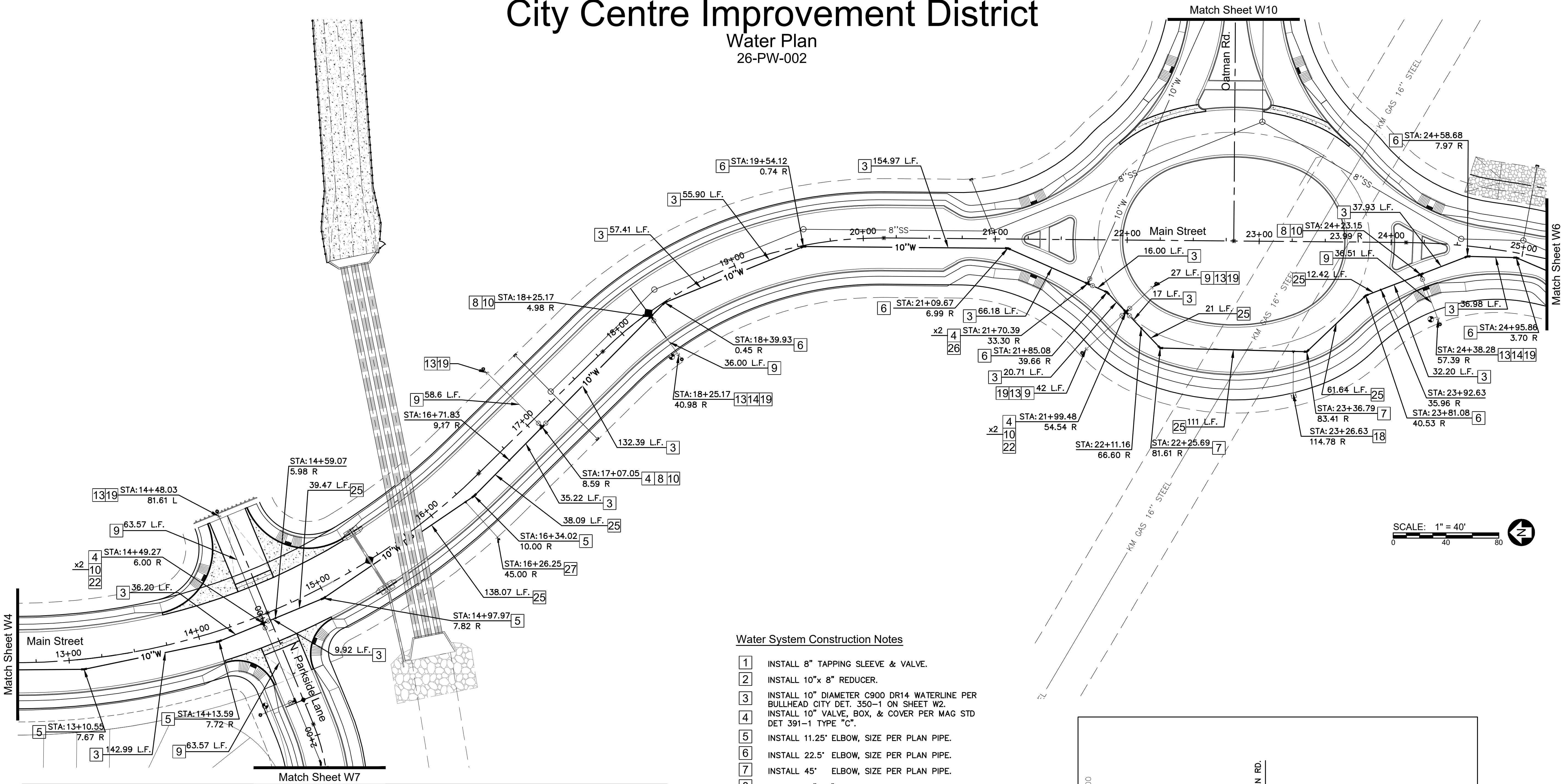
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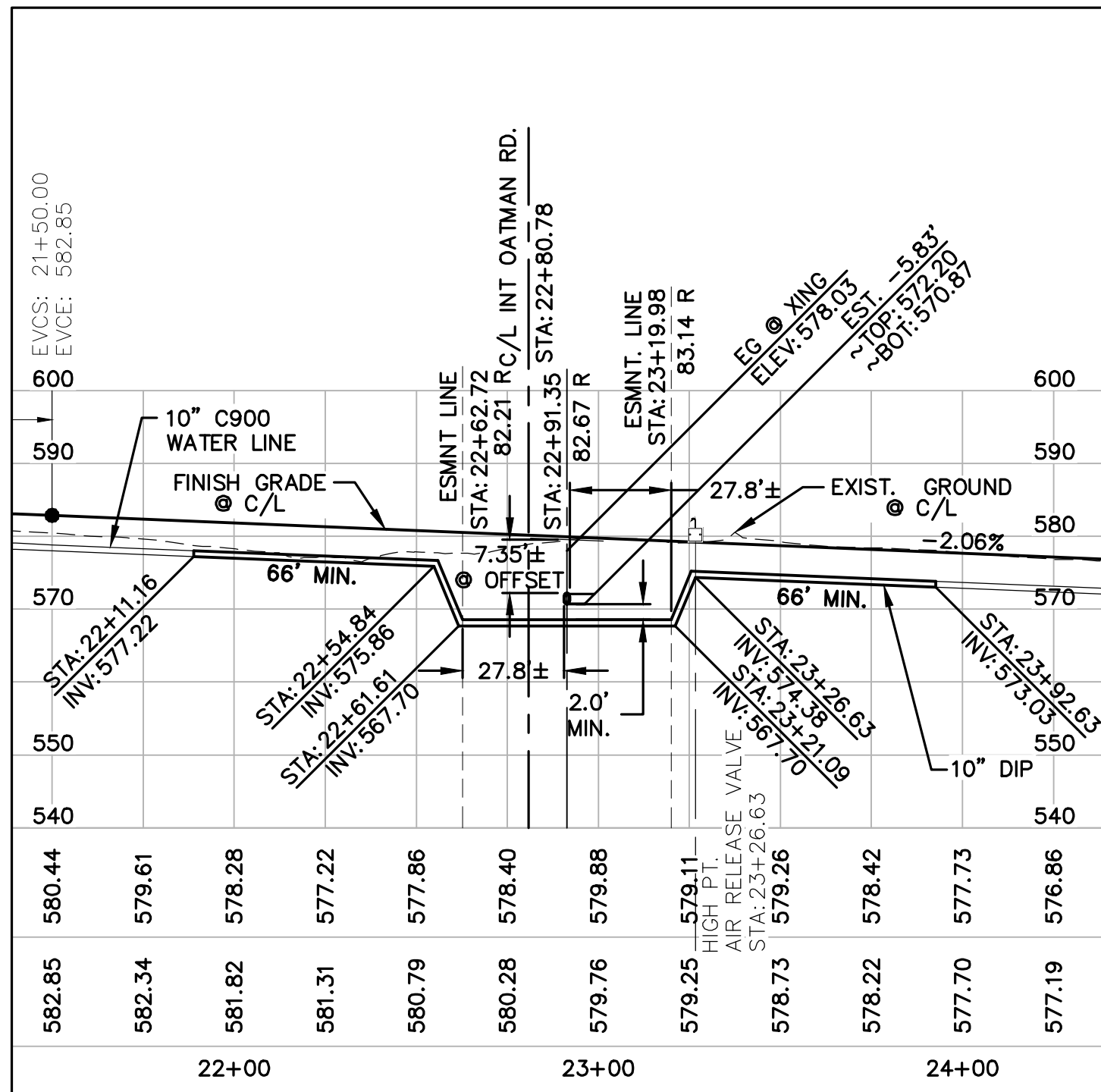
Water Plan
26-PW-002



SCALE: 1" = 40'

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Vertical Realignment



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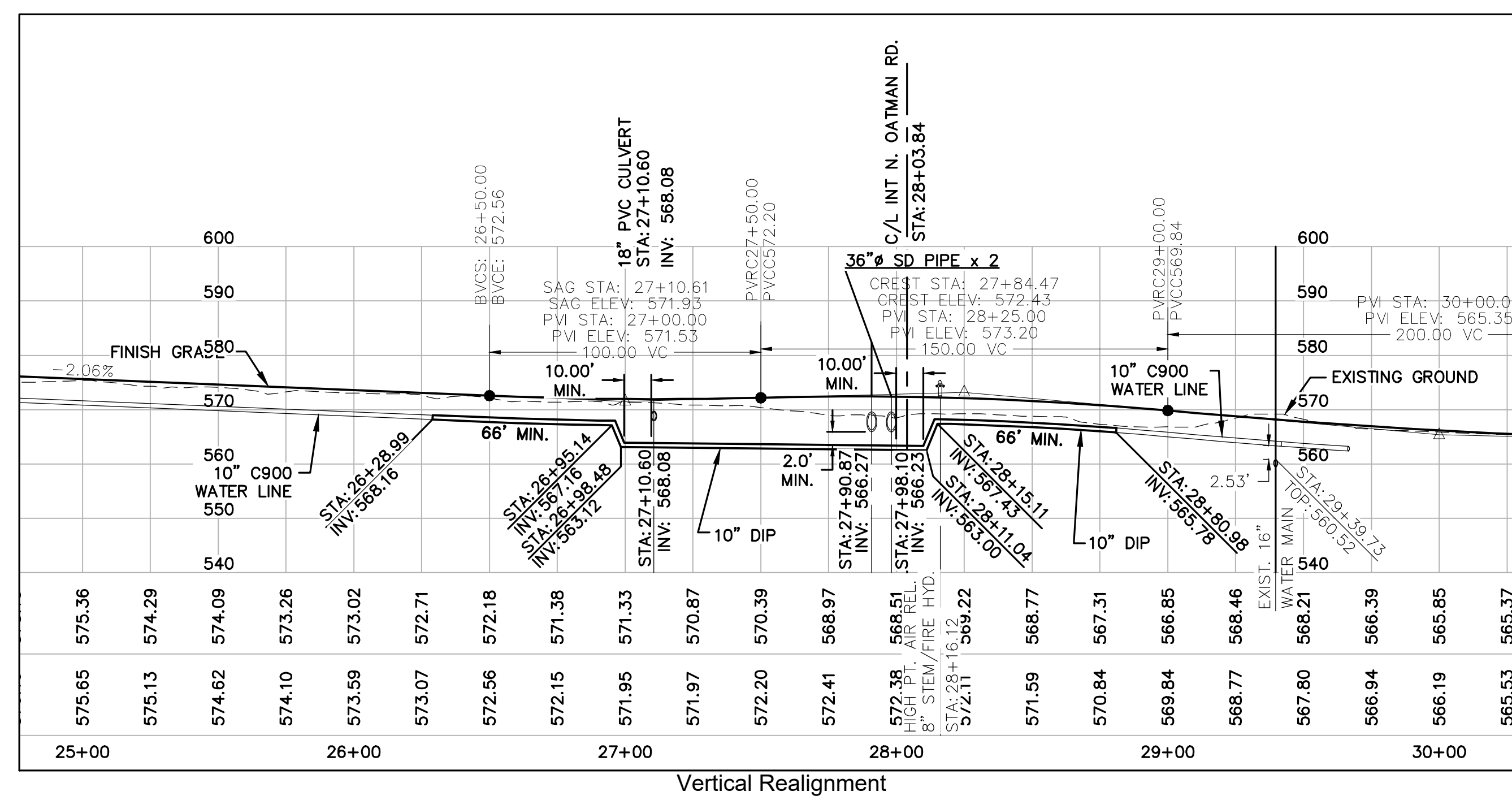
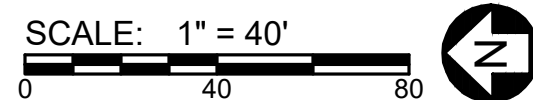
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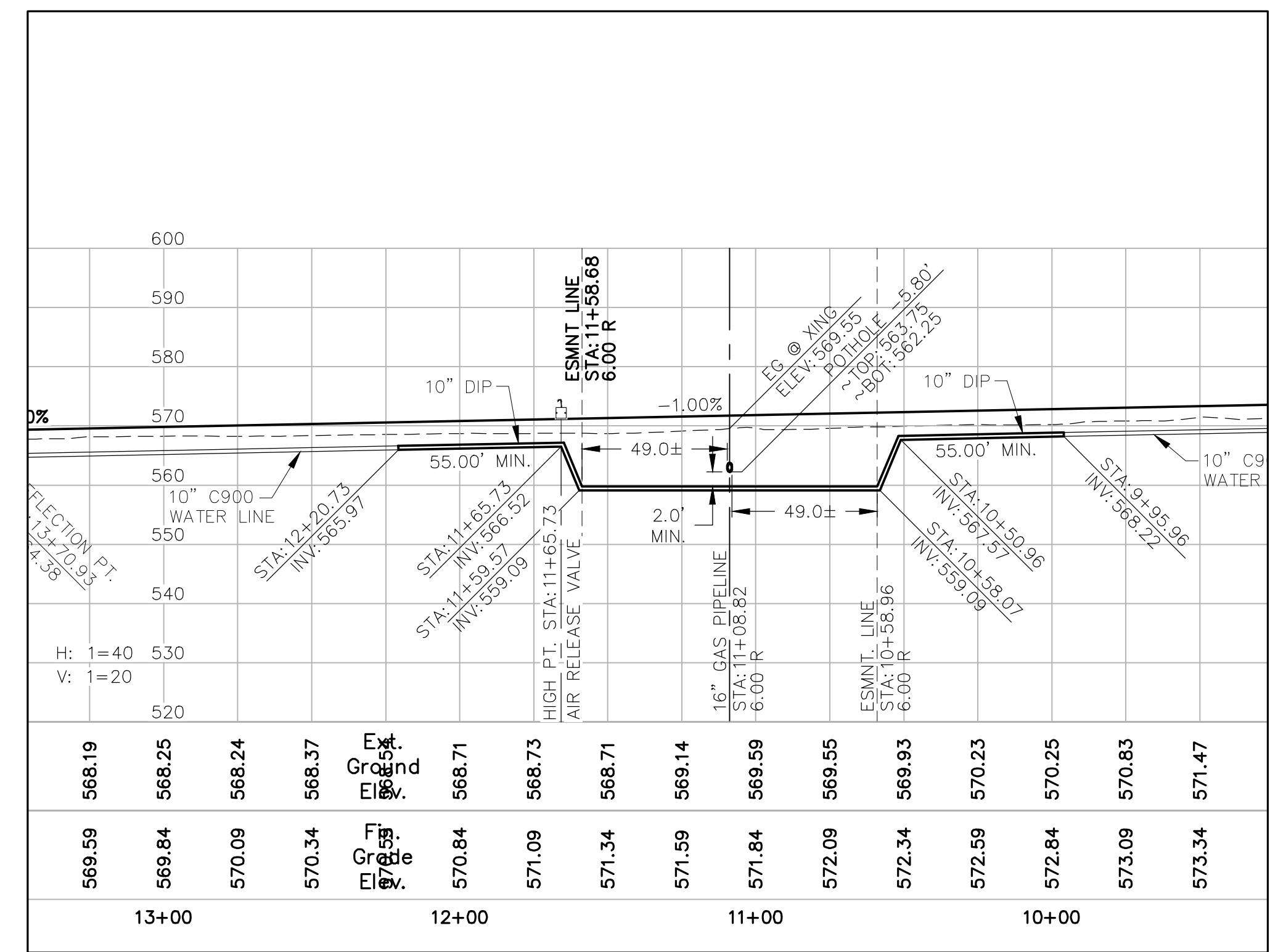
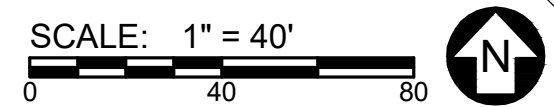
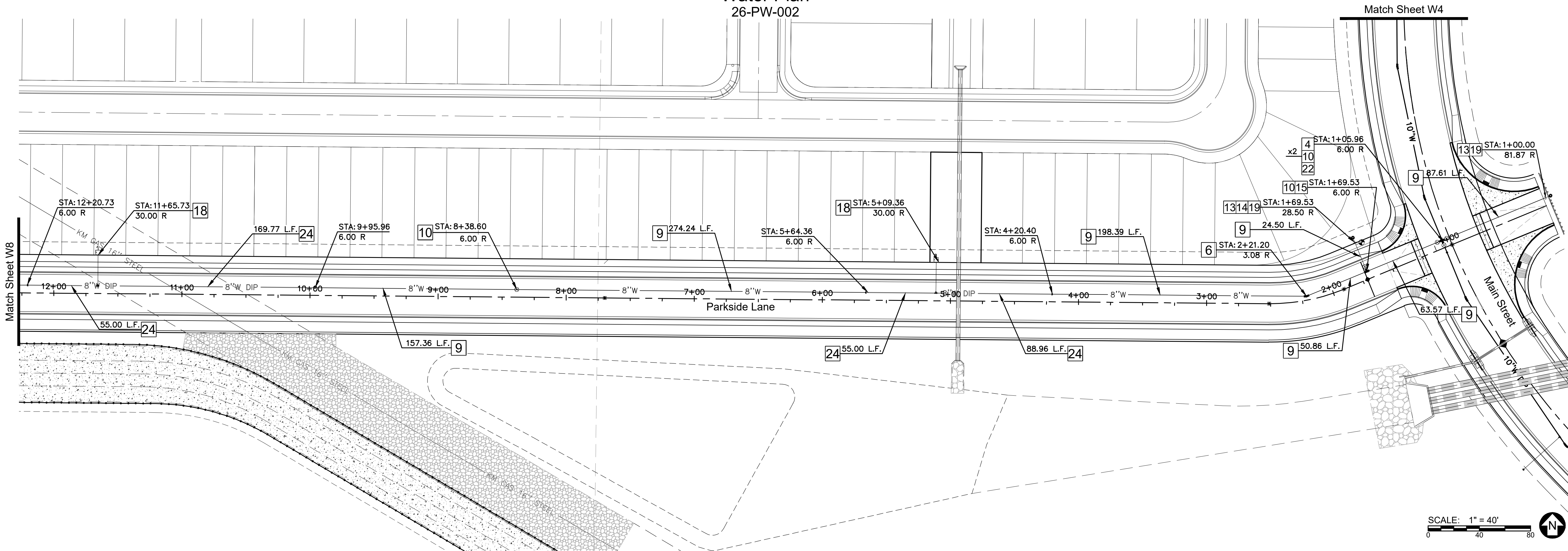
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BOX _____ TUBE _____

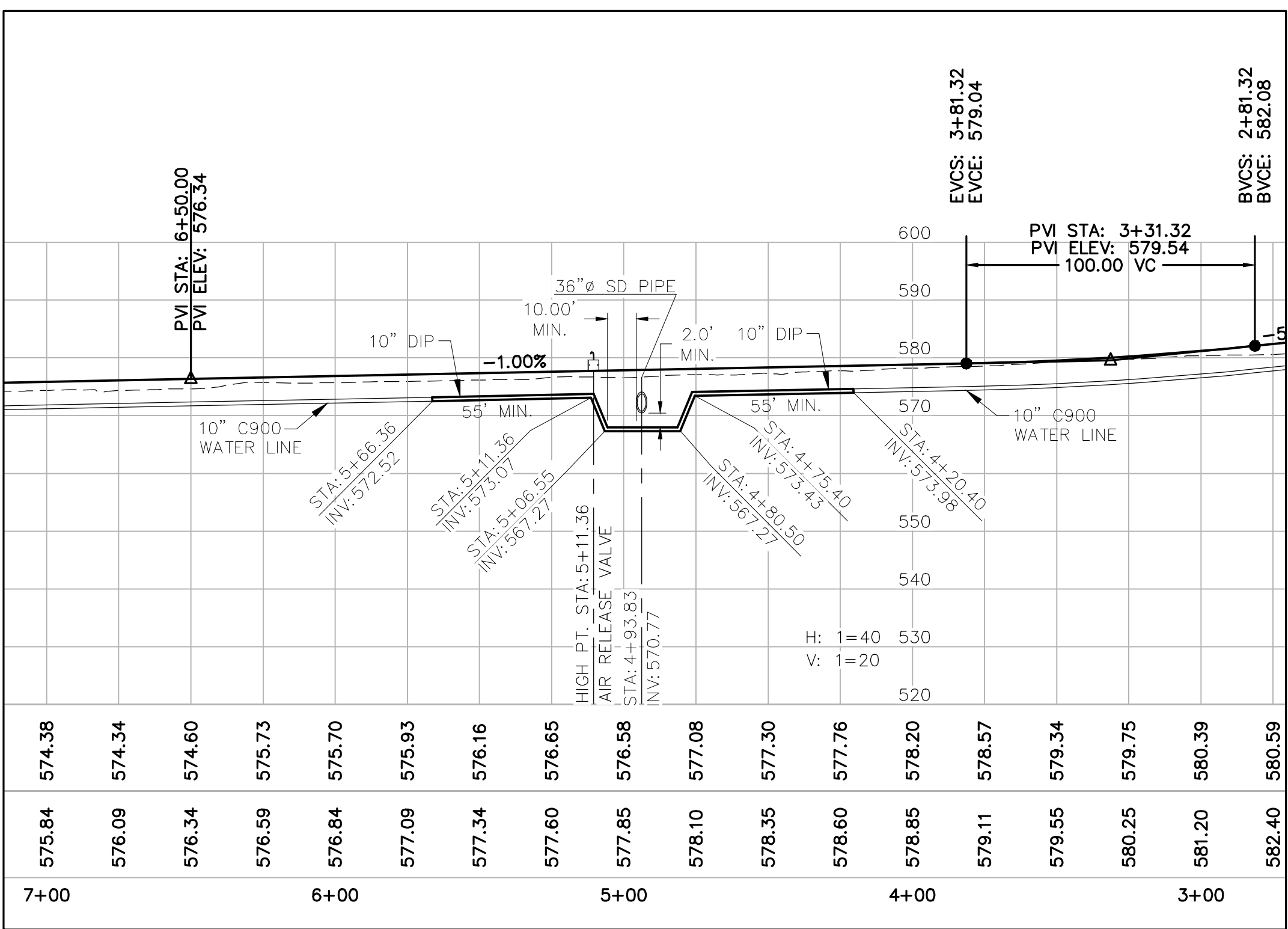
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City Centre Improvement District

Water Plan
26-PW-002



Vertical Realignment



Vertical Realignment

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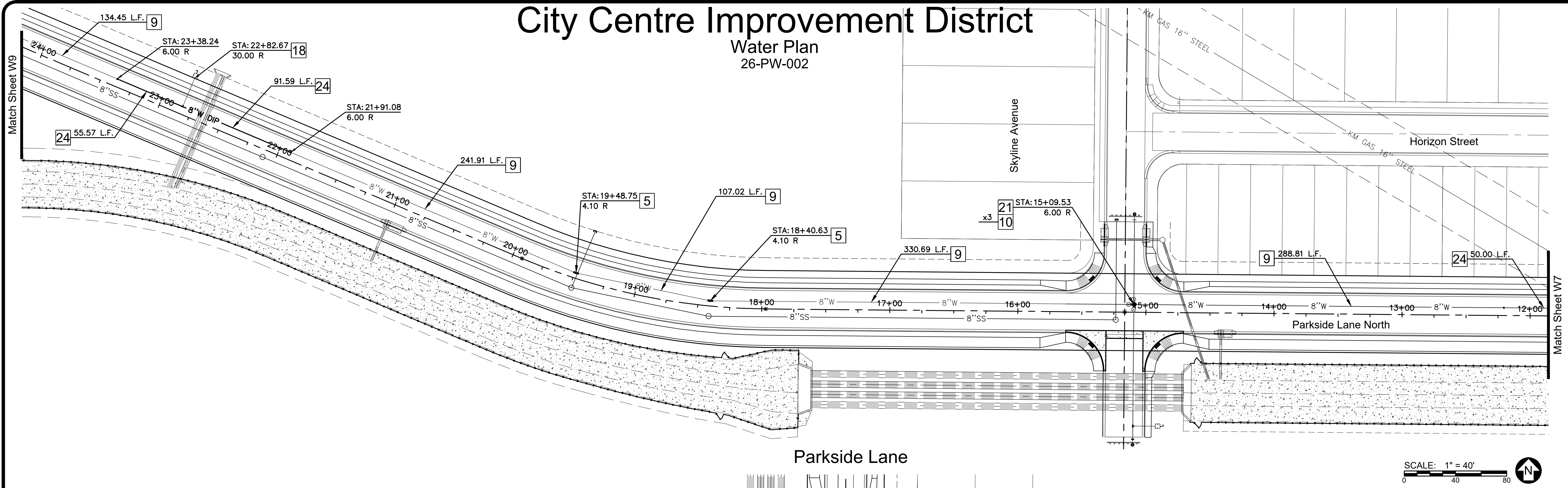
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1 800 782-5348
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W7 OF 10

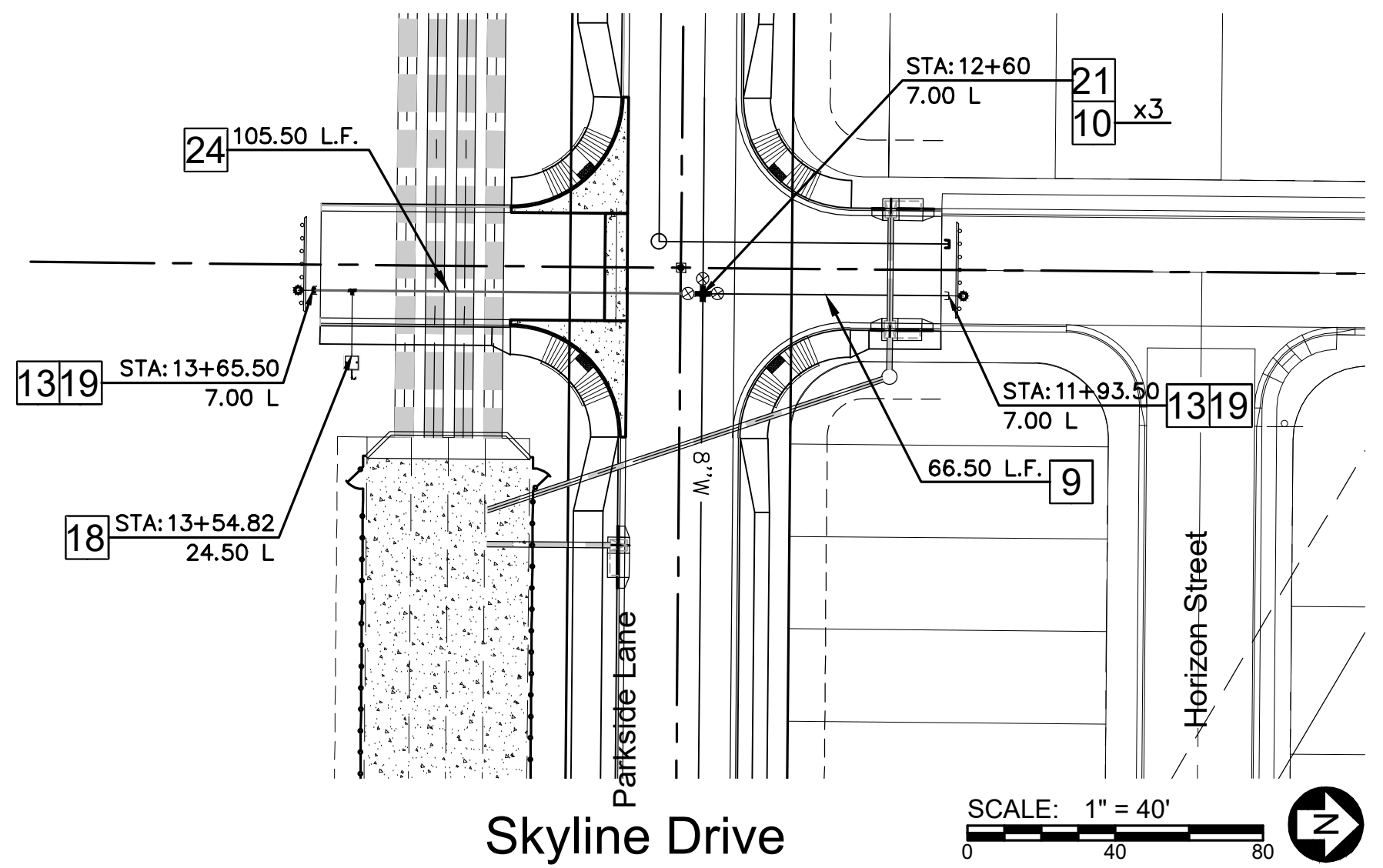
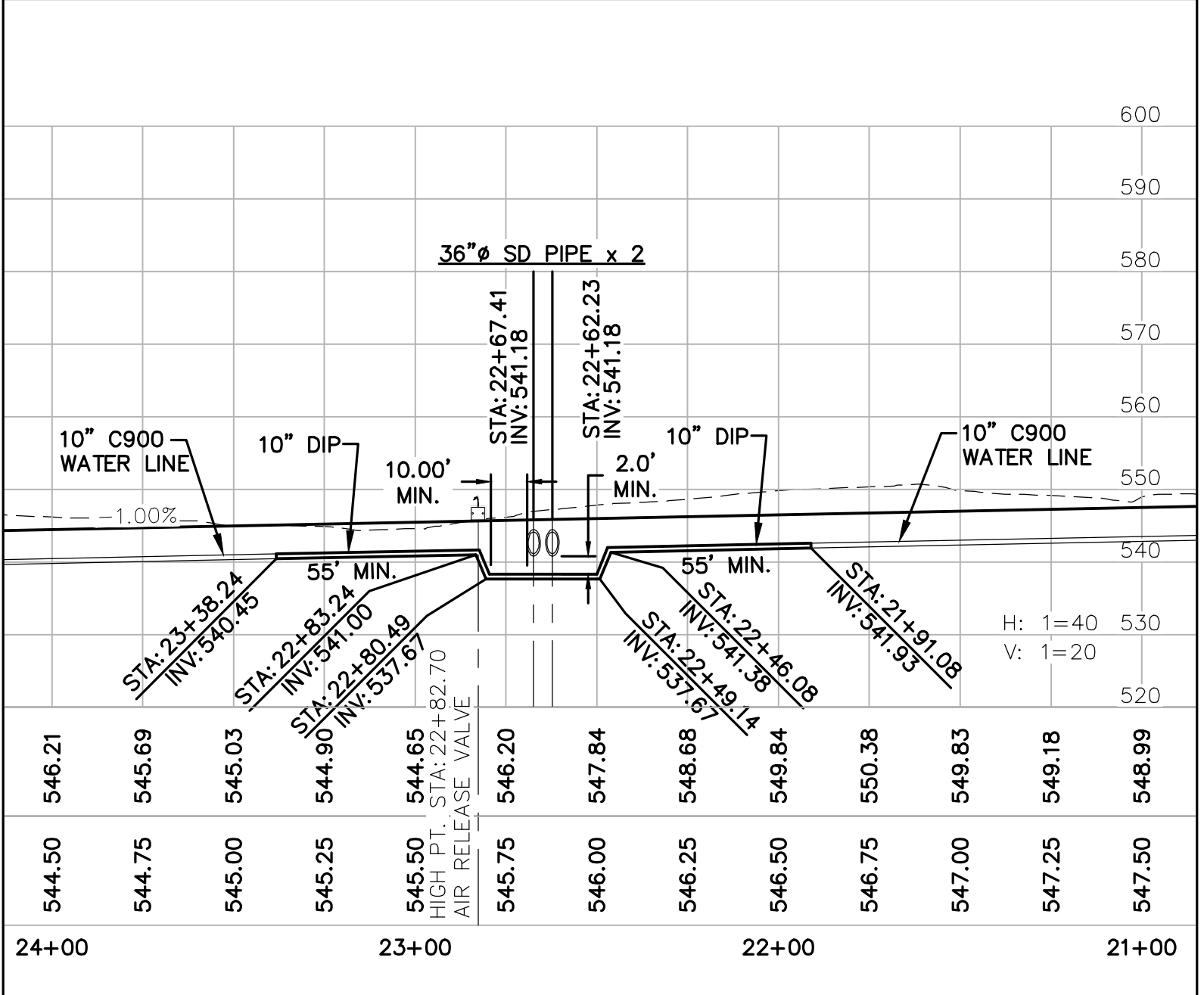
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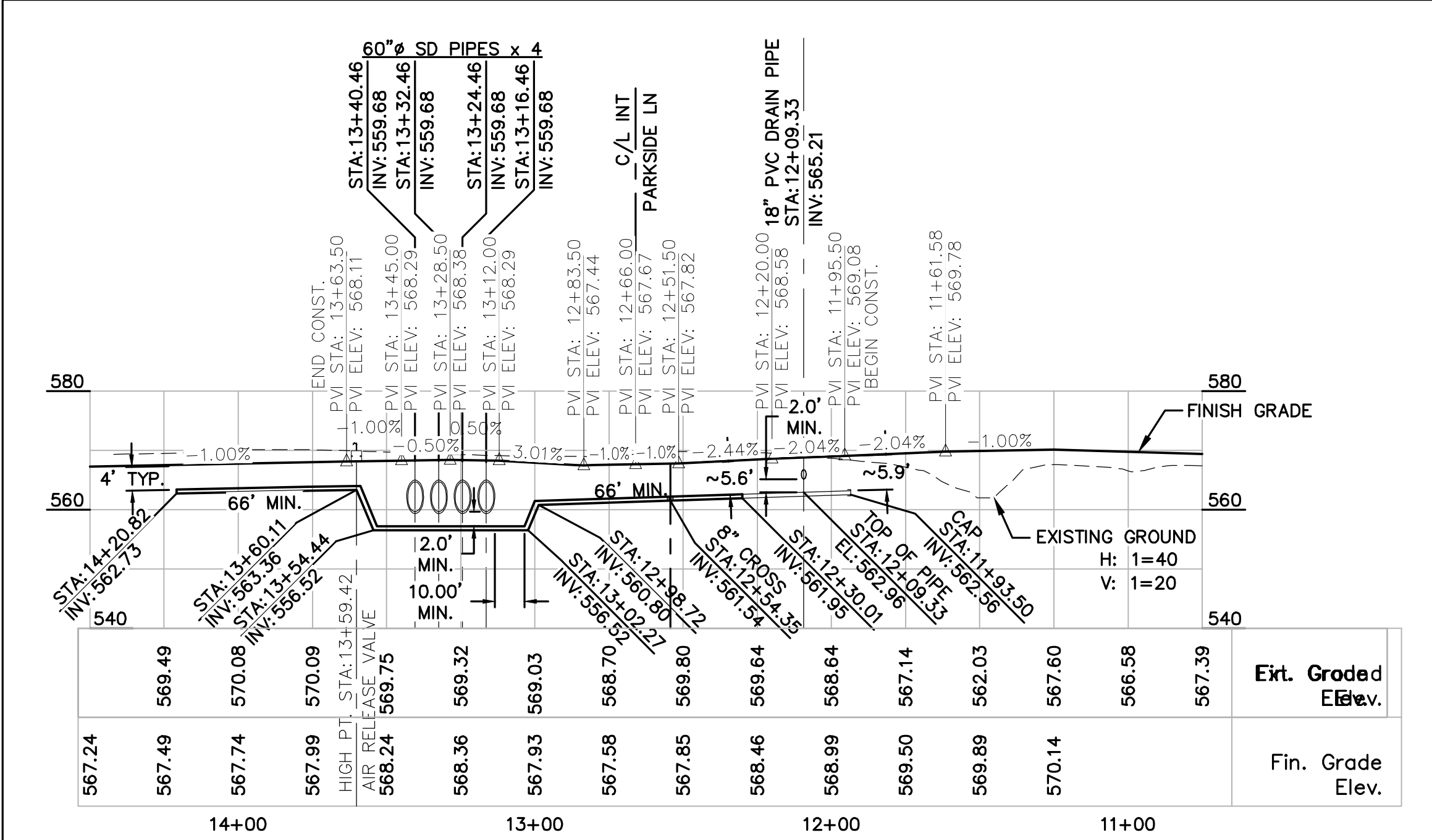
Water Plan
26-PW-002



SCALE: 1" = 40'



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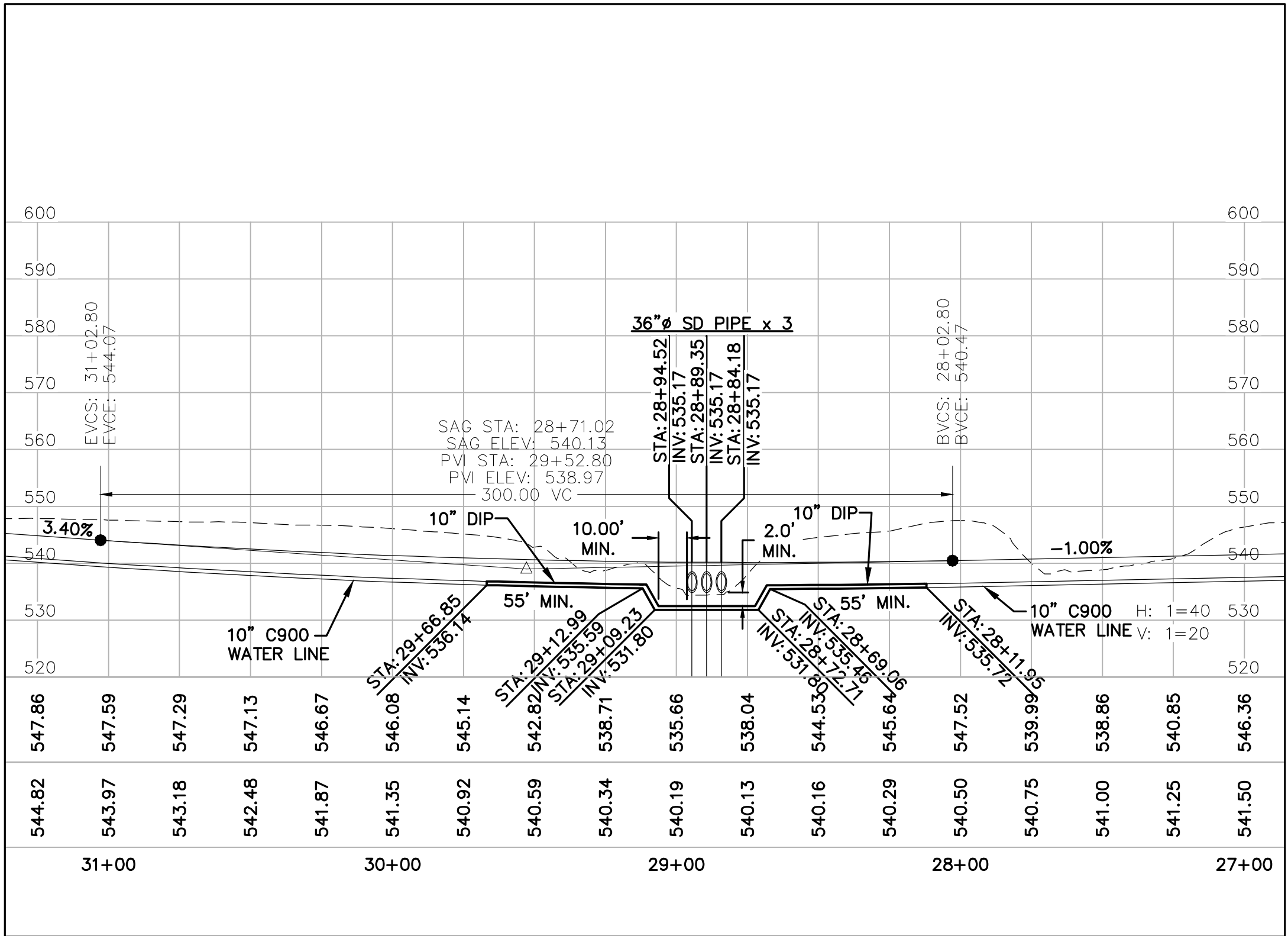
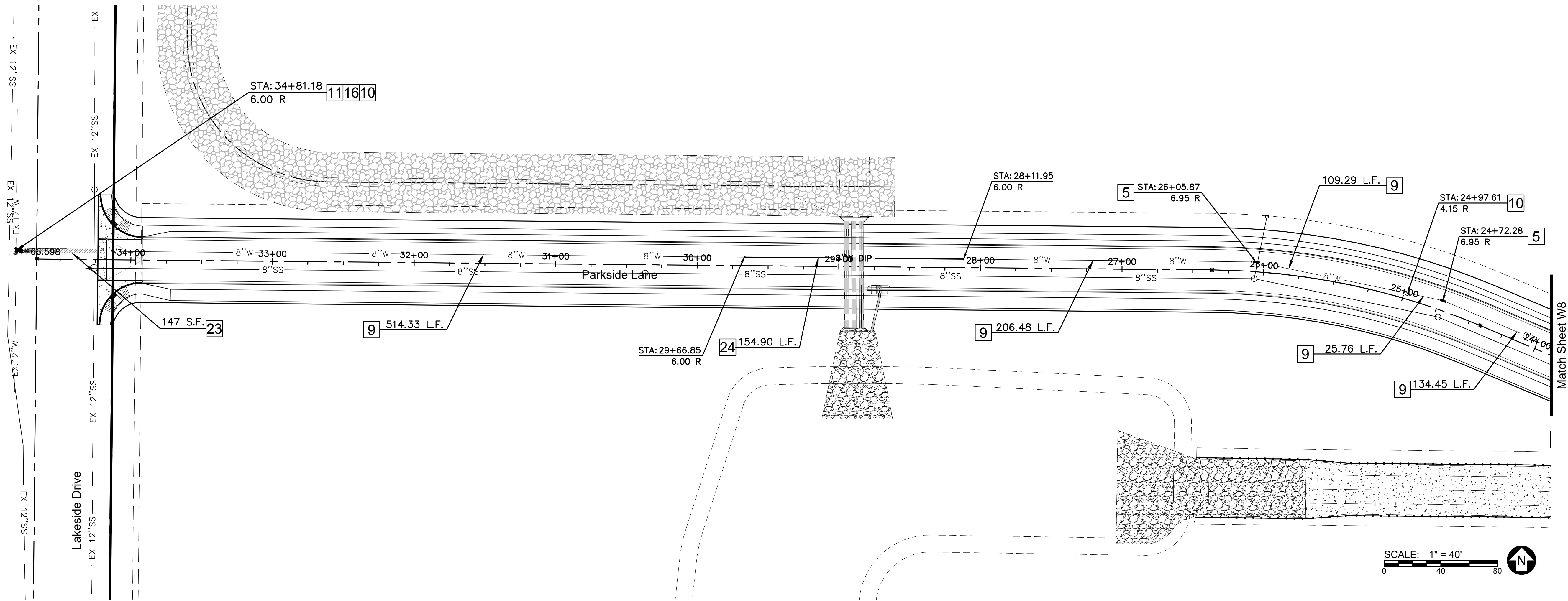


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W8 OF **10**
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26-PW-002

LAKESIDE



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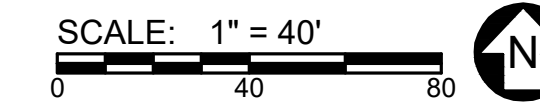


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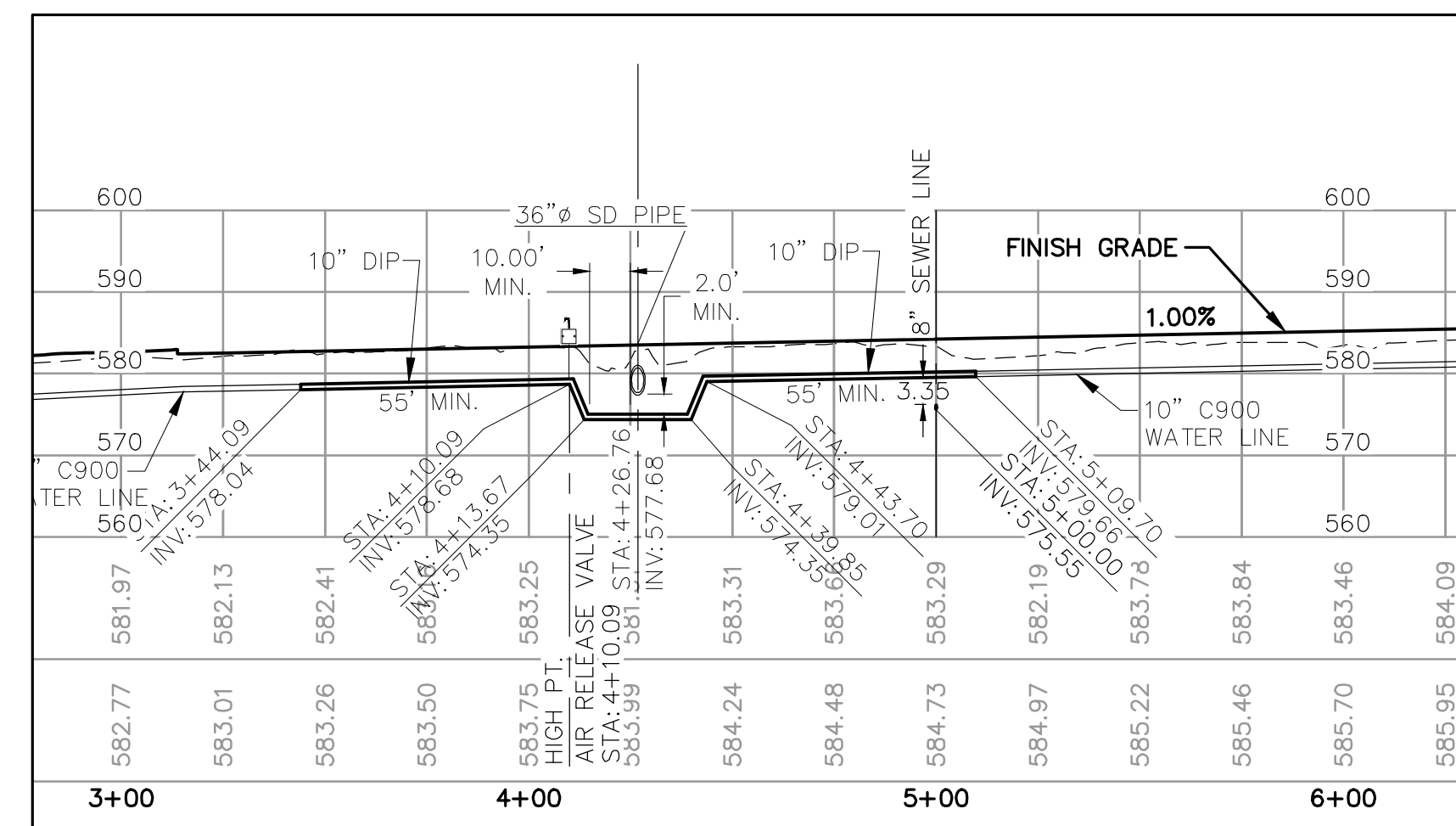
SHEET
W9 OF **10**
PROJ.#
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Water Plan

Water Plan
26-PW-002



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Bill X:\8242.1 City Center Master Utility & Drainage\82421mWAT.dwg LAYOUT: WAT (10) 06-16-26 3:33 P.M.