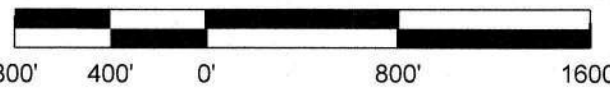


VICINITY MAP

GENERAL NOTES:

1. ALL WORK AND MATERIALS SHALL CONFORM TO CURRENT COUNTY HEALTH DEPARTMENT STANDARDS AND REVISIONS, ARIZONA WATER COMPANY STANDARD SPECIFICATIONS AND DETAILS, AND ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY ENGINEERING BULLETIN NO. 10.
2. PERMITS REQUIRED WILL BE SECURED FROM THE APPROPRIATE AGENCY, I.E. COUNTY PERMIT IN COUNTY RIGHT-OF-WAY.
3. PRIOR TO CONSTRUCTION, THE APPROPRIATE AGENCY(IES) WILL BE NOTIFIED AS REQUIRED BY THE PERMIT(S).
4. ALL BACKFILL COMPACTION AND TESTING SHALL BE PER CURRENT COUNTY CITY, STATE, ADOOT, AND ARIZONA WATER COMPANY STANDARDS AND SPECIFICATIONS.
5. ALL WATER LINES 8" AND LESS ARE TO HAVE A MINIMUM COVER OF 36 INCHES & ALL WATER LINES 12" AND GREATER ARE TO HAVE A MINIMUM COVER OVER THE TOP OF PIPE TO FINISHED GRADE, UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS.
6. ALL FRAMES, COVERS, VALVE BOXES, ETC. SHALL BE ADJUSTED TO FINISHED GRADE PRIOR TO PLACING OF ASPHALTIC CONCRETE SURFACE COURSE BY THE CONTRACTOR. (WHERE APPLICABLE)
7. ALL WATER LINES SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA C-600 OR MAG 610-14.
8. ALL WATER LINES ARE TO BE DISINFECTED PER ADEQ ENGINEERING BULLETIN NO.8 OR AWWA C651-05.
9. AIR RELEASE VALVES ARE REQUIRED AT WATER SYSTEM HIGH POINTS PER ARIZONA WATER COMPANY STANDARD DETAILS.
10. WATER/SEWER SEPARATION SHALL BE PER CURRENT ARIZONA WATER COMPANY STANDARDS AND ADEQ AAC R18-5-502-C.
11. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO UNCOVER ALL EXISTING WATER LINES BEING CONNECTED TO, AND TO VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.
12. ANY CONSTRUCTION PERFORMED WITHOUT THE KNOWLEDGE OF THE INSPECTOR OR HIS REPRESENTATIVE IS LIABLE FOR REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
13. IN ACCORDANCE WITH AAC R18-4-213, ALL MATERIALS ADDED AFTER JANUARY 1, 1993 WHICH MAY COME IN CONTACT WITH DRINKING WATER, SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.
14. ALL WATER SERVICES SHALL BE SET A MINIMUM OF 2 FEET ON THE CUSTOMERS PROPERTY AND NOT WITHIN RIGHT-OF-WAY.
15. UNLESS OTHERWISE SPECIFIED ON THE CONSTRUCTION DRAWINGS, ALL WATER MAINS ARE TO BE INSTALLED 5 FEET FROM THE PROPERTY LINE INSIDE THE RIGHT-OF-WAY OR EASEMENT.
16. WATER VALVES SHALL BE SPACED NOT MORE THAN 500 FEET IN COMMERCIAL DISTRICTS AND NOT MORE THAN 800 FEET IN OTHER DISTRICTS. VARIATIONS MAY BE REQUIRED FOR TRANSMISSION MAINS OR SPECIAL APPLICATIONS. SUFFICIENT VALVING IS REQUIRED WHERE WATER LINES CROSS STREAMS, RAILROADS AND MAJOR HIGHWAYS.
17. MAXIMUM JOINT DEFLECTION FOR 6" MECHANICAL JOINT DUCTILE IRON PIPE IS 7"-7' OR 27" FOR 18 FOOT LENGTH PIPE, FOR A MAXIMUM CURVE OF 145 FEET.
18. MAXIMUM JOINT DEFLECTION FOR 6", 8" & 12" PUSH-ON JOINT DUCTILE IRON PIPE IS 5" OR 19" FOR 18 FOOT LENGTH PIPE, FOR A MAXIMUM CURVE OF 205 FEET.
19. MAXIMUM JOINT DEFLECTION FOR 8" & 12" MECHANICAL JOINT DUCTILE IRON PIPE IS 5" -21" OR 20" FOR 18 FOOT LENGTH PIPE, FOR A MAXIMUM CURVE OF 195 FEET.
20. PIPE, FITTINGS, VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES MUST CONFORM TO AWWA, ANSI/NSF 61 STANDARDS.
21. BACKFLOW PREVENTION SHALL BE IN ACCORDANCE WITH R-18-4-115.
22. CONSTRUCTION MATERIALS USED IN WATER SYSTEM MUST BE LEAD FREE AS PER AAC R18-4-504 AND R18-1-101 (43).



BENCHMARK

GPS STATIC OBSERVATIONS WERE OBSERVED AND LATER POST PROCESSED UTILIZING (OPUS) ON-LINE POSITION POSITIONING SOFTWARE OF WHICH THE FOLLOWING NAVD88 ELEVATIONS WERE DERIVED:

BM1: A 5/8" REBAR WITH WILSON & COMPANY ALUMINUM CAP WAS ESTABLISHED AND LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF OVERFIELD ROAD AND OVERFIELD DRIVE. ELEVATION = 1409.70

BM2: A THREE-INCH BRASS CAP LOCATED AT THE SOUTH QUARTER CORNER OF SECTION 24, TOWNSHIP 6 SOUTH, RANGE 6 EAST, ALSO BEING THE INTERSECTION OF FLORENCE BOULEVARD AND MISSION PARKWAY. ELEVATION = 1427.31

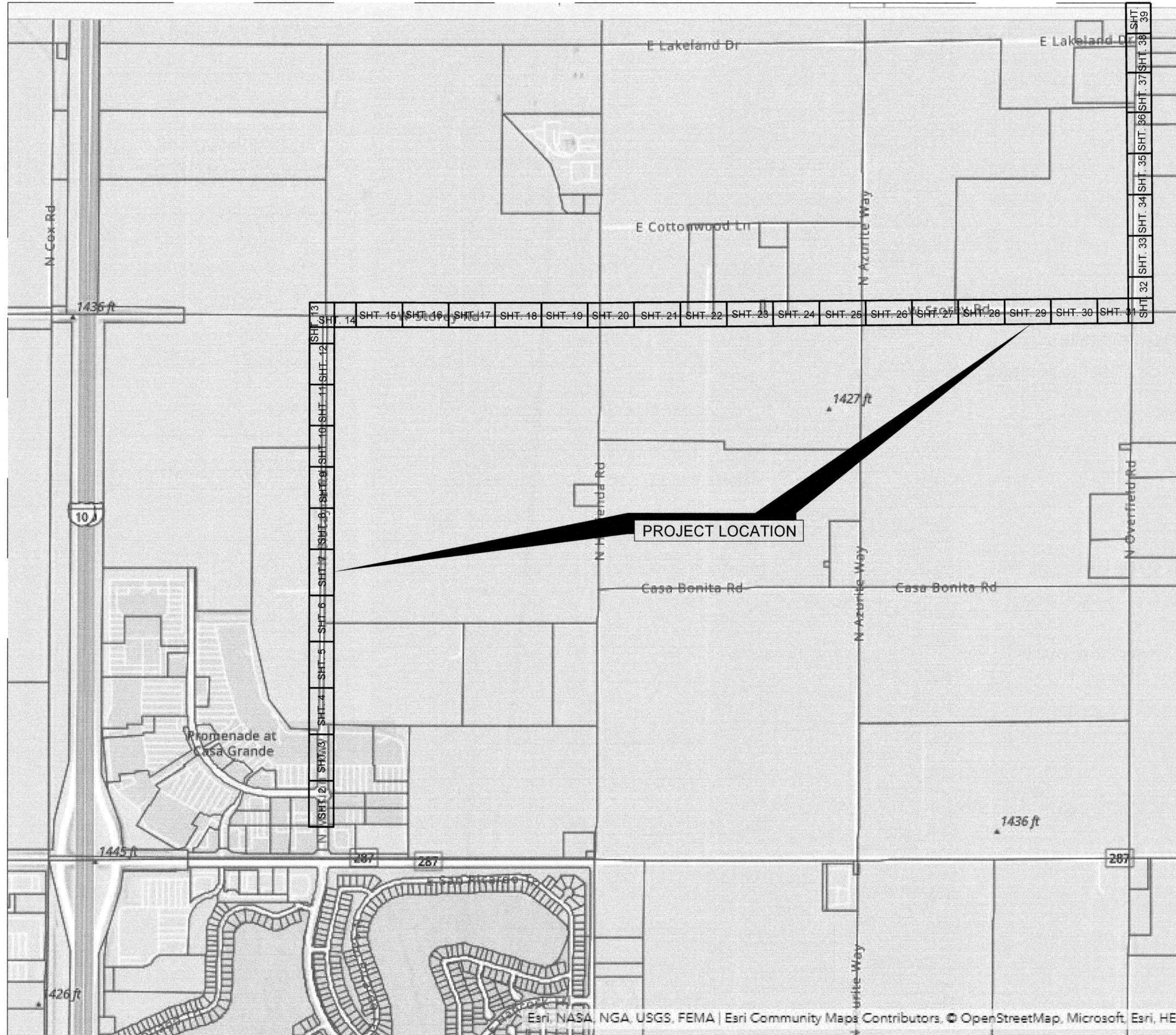
BM3: A NUMBER FOUR REBAR LOCATED SOUTHWEST OF THE INTERSECTION OF MISSION PARKWAY AND PROMENADE PARKWAY. ELEVATION = 1425.73

REFERENCE DOCUMENTS

2013-022263
CABINET G SLIDE 190 P.C.R. (2013-022263)
CABINET H SLIDE 095 P.C.R. (2009-021293)
2013-046375
2012-002134
BOOK 13, PAGE 055 P.C.R. (2005-035333)
2010-022663
BOOK 10, PAGE 002 P.C.R. (2004-015392)
2020-075340
DOCKET 560, PAGE 614-885 & 332
DOCKET 1671, PAGE 538-544
DOCKET 550, PAGE 948
DOCKET 375, PAGE 232
DOCKET 226, PAGE 372
DOCKET 1256, PAGE 914
DOCKET 1840, PAGE 20
DOCKET 1841, PAGE 871
DOCKET 566, PAGE 349
DOCKET 885, PAGE 996
DOCKET 1600, PAGE 27
DOCKET 1668, PAGE 284
DOCKET 1271, PAGE 86

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

CONSTRUCT 15,900 LF OF 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY, COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ
SEC. 24, OF T. 6 S., R. 6 E. AND E 1/2 SEC. 18, N 1/2 SEC. 19 OF T. 6 S., R. 7 E. OF THE G. & S. R. B. & M.



SHEET INDEX			
SHT. No.	DWG. No.	DESCRIPTION	PREPARED BY
1	PV-0260	COVER SHEET	AWC
2-39	PV-0260	CONSTRUCTION PLAN	AWC
40	PV-0260	CITY OF C.G. NOTES	AWC
41	PV-0260	AWC NOTES	AWC
42	PV-0260	AWC DETAILS	AWC

QUANTITIES LIST		QUANTITY
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS	15,900 LF
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS	53 LF
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS	10 LF
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS	180 LF
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS	50 LF
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3	41
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1	2
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1	16
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1	2
10	INSTALL 24" M.J. CROSS	2
11	INSTALL 24" X 16" M.J. CROSS	1
12	INSTALL 24" X 12" M.J. CROSS	5
13	INSTALL 24" M.J. TEE	2
14	INSTALL 24" X 12" M.J. TEE	5
15	INSTALL 24" X 8" M.J. TEE	2
16	INSTALL 12" M.J. TEE	1
17	INSTALL 24" 45° M.J. ELL.	6
18	INSTALL 24" M.J. CAP	2
19	INSTALL 16" M.J. CAP	2
20	INSTALL 12" M.J. CAP	9
21	INSTALL 8" M.J. CAP	4
22	INSTALL 24" X 12" M.J. REDUCER	2
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2	8
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1	8
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1	9
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE	3
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1	12
28	INSTALL 12" X 8" M.J. REDUCER	3
29	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1	374 LF
30	SAWCUT AND AC REMOVAL	3,000 SQ. FT.
31	INSTALL 24" 90° M.J. ELL.	2
32	INSTALL 24" 22.5° M.J. ELL.	2

CONSTRUCTION NOTES:

1. CONNECT M.J. FITTINGS TO M.J. FITTINGS USING FOSTER ADAPTERS.
2. ALL MATERIALS & PIPE REMOVED MUST BE DISPOSED BY THE CONTRACTOR.
3. ASPHALT REPLACEMENT & TRENCH BACKFILL PER MAG STD. DTL. 200-1 'T-TOP', 200-2 & 200-3 ON SHT. 42.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE ARIZONA WATER COMPANY STANDARD SPECIFICATIONS AND DETAILS.
5. USE MEGALUG SERIES 1100, STAR GRIP SERIES 3000 OR TUF GRIP SERIES 1000 JOINT RESTRAINTS AT ALL M.J. FITTING CONNECTIONS.
6. INTERRUPTION OF WATER SERVICE FOR TIE-INS CANNOT EXCEED 4 HOURS IN DURATION FROM TIME OF SHUTDOWN TO COMPLETION OF FLUSHING.
7. COMPANY DOES NOT GUARANTEE EXISTING VALVES WILL PROVIDE A DRY SHUTDOWN.
8. ANY ADDITIONAL FITTINGS REQUIRED FOR TIE-INS BUT NOT SHOWN ON PLANS FOR PROPER ALIGNMENT SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE PIPE PRICE.
9. PROTECT ALL UTILITY CROSSINGS IN PLACE UNLESS OTHERWISE NOTED ON PLANS.
10. TRAFFIC CONTROL PER RIGHT-OF-WAY PERMIT REQUIREMENTS.
11. CONTRACTOR MUST USE NO. 1 METER BOXES WHEN INSTALLING A NEW SERVICE CONNECTION AT THE SAME LOCATION OF AN EX. SERVICE.
12. CONTRACTOR MUST MAINTAIN MIN. 3-FOOT HORIZONTAL SEPARATION FROM OUTSIDE OF WATER MAIN TRENCH TO EX. POWER POLES AND PROVIDE BRACING FOR EX. POWER POLES IF NECESSARY DURING CONSTRUCTION.
13. CONTRACTOR MUST PLUG ENDS OF ABANDONED IN PLACE WATER MAINS WITH CLASS 'C' CONCRETE MIN. 24-INCHES INTO PIPE.
14. PASSING COMPACTION TEST RESULTS ARE REQUIRED PRIOR TO PAVEMENT REPLACEMENT.
15. CONTRACTOR MUST PAY THE COST OF ALL WATER PROVIDED BY AWC TO THE CONTRACTOR FOR CONSTRUCTION AND TESTING OF THE WATER MAINS.
16. CONTRACTOR MUST PROVIDE AND INSTALL NEW CUSTOMER SHUTOFF VALVE AT EACH SERVICE WITH PRIOR CUSTOMER PERMISSION.
17. CONTRACTOR MUST COORDINATE MATERIAL, LOCATION, AND TIMING, OF SERVICE TIE-OVERS WITH CUSTOMER.
18. PROTECT WATER LINE TO BE ABANDONED IN PLACE UNTIL FINAL TIE-INS ARE COMPLETED.
19. CONTRACTOR HAS THE OPTION TO BORE THE ROAD WHILE MAINTAINING MINIMUM DEPTH FOR SERVICE REPLACEMENT.
20. CONTRACTOR MUST MAINTAIN ALL PAVEMENT CUTS IN A SMOOTH AND SAFE MANNER WITH FLUSH MOUNTED PLATES OR TEMPORARY ASPHALT UNTIL CONTRACTOR COMPLETES PERMANENT PAVEMENT REPLACEMENT.
21. CONTRACTOR MUST CONSTRUCT FACILITIES WITHIN RIGHT-OF-WAY WITH THE EXCEPTION OF SERVICE VALVE BOXES.
22. FIRE HYDRANTS MUST BE RELOCATED BEHIND THE BACK OF CURB OF THE FUTURE ROADWAY, IF THE FUTURE ROADWAY CHANGES FROM WHAT IS SHOWN FOR THE PROPOSED ROAD ON THESE DRAWINGS.

REVISIONS:

- Δ REVISED BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
- Δ REVISED BY BWP ON 8/14/25 PER HIDD COMMENTS.
- Δ REVISED BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
- Δ REVISED BY BWP ON 10/26 PER HIDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality.

ARIZONA WATER COMPANY
Standard Specifications for Water Main Installation
Revised 08/15/24 by Ariz. Water Company

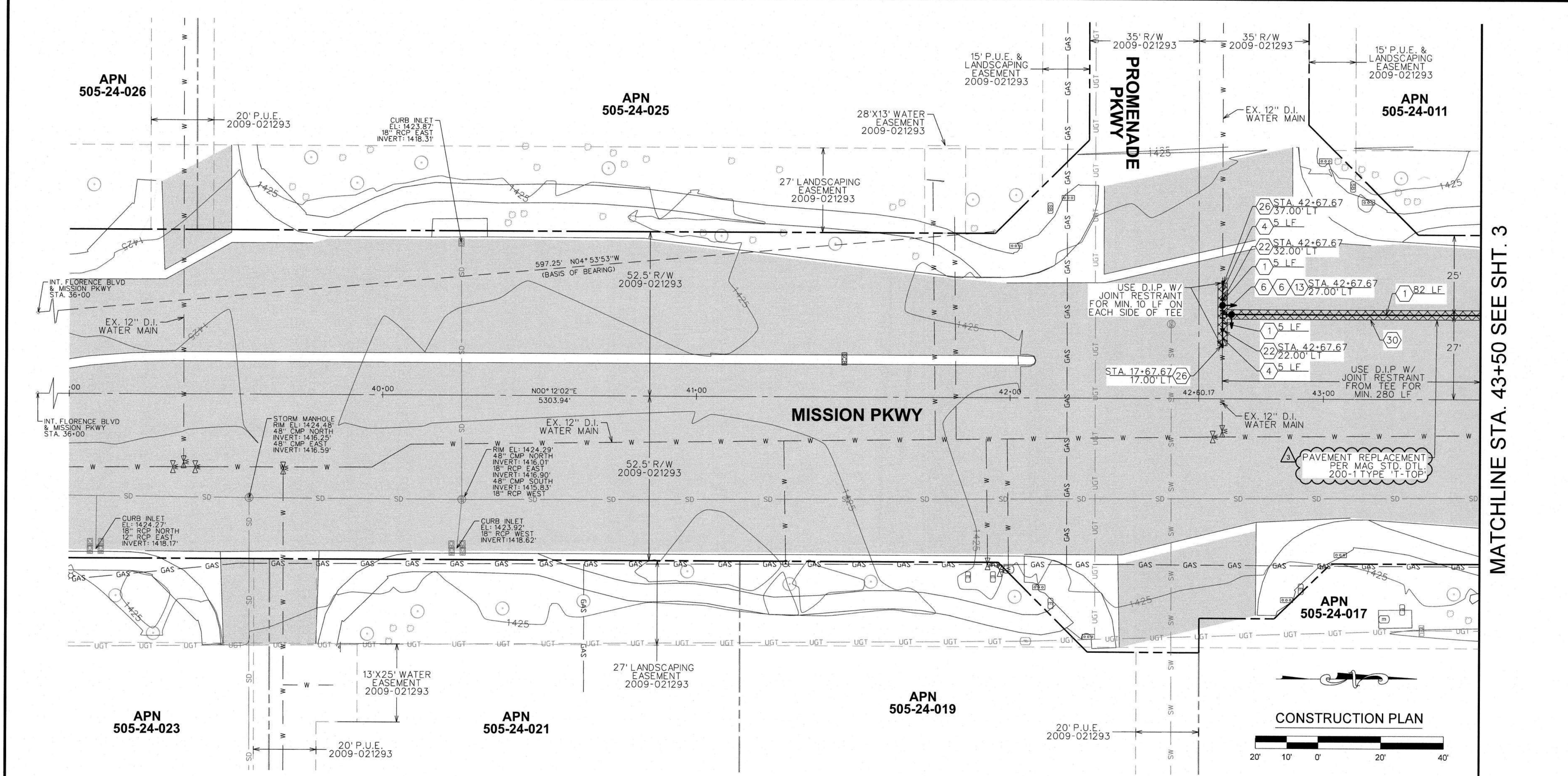
W.A. No.: 3-6663	P.E. No.: 7
SYSTEM: PINAL VALLEY (CG)	SCALE: 1"=40'
LEGAL DESC.: SEC. 24, OF T. 6 S., R. 7 E. E 1/2 SEC. 18, N 1/2 SEC. 19 OF T. 6 S., R. 7 E.	DATE: 12/19/2025
TAX DIST.: 0404, 0408, 0437, 0438	REVIEWED BY: BWP
AS SHOWN	CHECKED BY: W

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

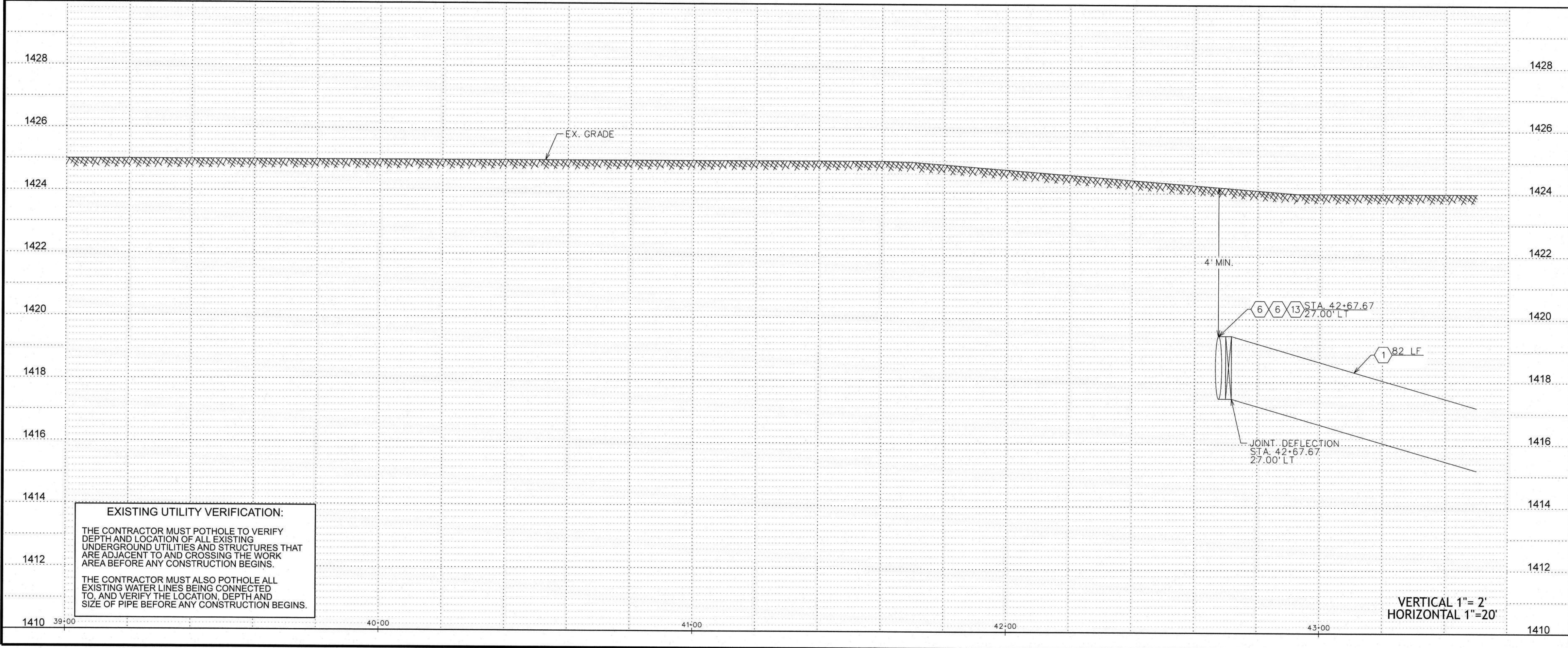
CONSTRUCT 15,900 LF OF 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY, COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ.

Professional Engineer
70873
AMY WALTHERSON
Arizona U.S.A.
Expires 3/31/2026

DWG. No.: PV-0260
SHEET 1 OF 42



MATCHLINE STA. 43+50 SEE SHT. 3



EXISTING UTILITY VERIFICATION:
THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.
THE CONTRACTOR MUST ALSO POTHOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28	SEE CONSTRUCTION NOTE 22 ON SHT. 1
29	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
30	SAWCUT AND AC REMOVAL
31	INSTALL 24" 90° M.J. ELL.
32	INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

REVISIONS:

REVISED BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.

REVISED BY BWP ON 8/14/25 PER HHD COMMENTS.

REVISED BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.

REVISED BY BWP ON 11/26 PER HHD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality

Standard Arizona BWP at least 3000 feet from any other water construction

W.A. No.: 3-6653

SYSTEM: PINAL VALLEY (CG)

LEGAL DESC.: SEC. 34, Q. 1, R. 5, S. 8, E. 1/2 SEC. 18, N. 1/2 SEC. 19 OF T. 6 S., R. 7 E.

TAX DIST.: 0404, 0408, 0437, 0438

DATE: 12/19/2025

SCALE: AS SHOWN

DRAWN BY: BWP

CHECKED BY: MC

REVIEWED BY: DTG

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

PROJECT DESC.: CONSTRUCTION OF 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY, COTTONWOOD LANE AND OVERFIELD ROAD IN CASA GRANDE, AZ.

PROJECT SHEET DESC.: CONSTRUCTION PLAN/PROFILE






















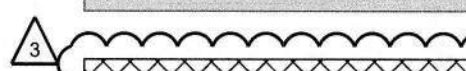
Professional Engineer
70873
AMY WALTHERSON
Arizona Water Company
Expires 3-31-2026

DWG. No.: PV-0260


SHEET 2 OF 42



LEGEND

											EX. UTILITY POLES
											EX. WATER METER BOX
											EX. FIRE HYDRANT
											NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
											EX. WATER VALVE
											EX. SEWER MANHOLE
											EX. STORM DRAIN MANHOLE
											STREET CENTERLINE/MONUMENT LINE
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											EX. FENCE
											EX. EASEMENT
											EX. ASPHALT
											SAWCUT & AC REMOVAL



		ARIZONA WATER COMPANY 3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006 PHOENIX, ARIZONA 85038-9006 (602) 240-6860	
PROJECT DESC: CONSTRUCT 15,900 LPOF OF 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY, COTTOWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ.		CONSTRUCTION PLAN/PROFILE	
PROJECT SHEET DESC:		DWG. No.:	
PROJECT SHEET DESC:		PV-0260	
PROJECT SHEET DESC:		SHEET 4 OF 42	

PROJECT DESC: CONSTRUCT 15,900 LPOF OF 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY, COTTOWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ.		CONSTRUCTION PLAN/PROFILE	
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PROJECT SHEET DESC:		PV-0260	
PROJECT SHEET DESC:		SHEET 4 OF 42	

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PROJECT SHEET DESC:		SHEET 4 OF 42	

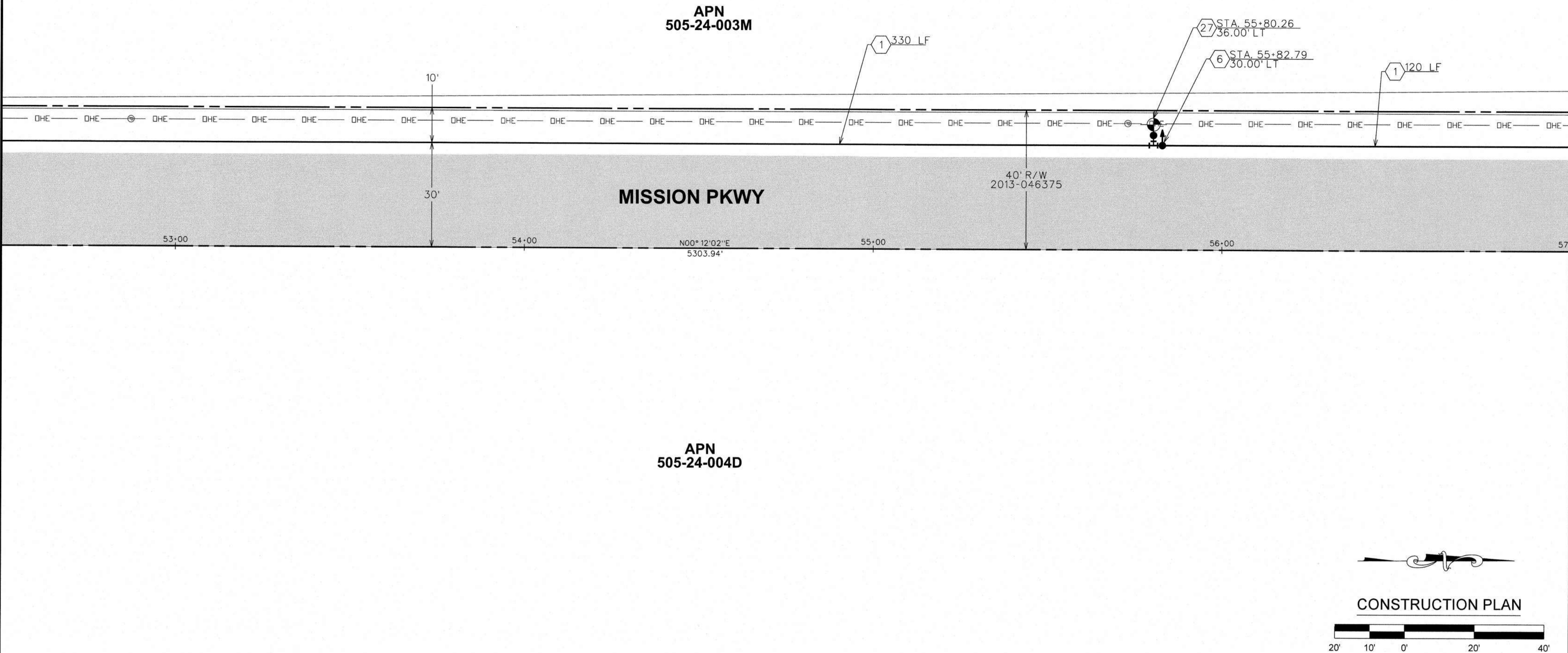
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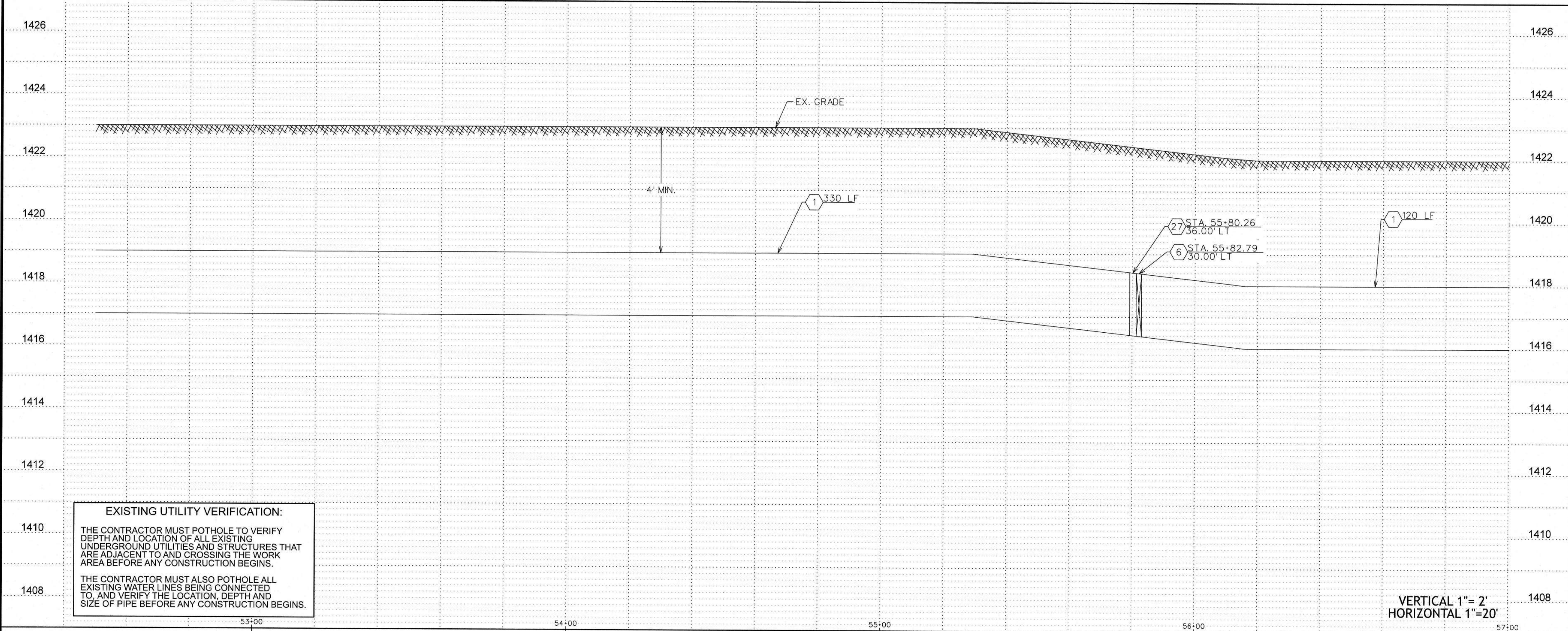
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MATCHLINE STA. 52+50 SEE SHT. 4

MATCHLINE STA. 57+00 SEE SHT. 6



APN 505-24-004D



EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.

THE CONTRACTOR MUST ALSO POTHOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28	SEE CONSTRUCTION NOTE 22 ON SHT. 1
29	INSTALL 12" X 8" M.J. REDUCER
30	SAWCUT AND AC REMOVAL
31	INSTALL 24" 90° M.J. ELL.
32	INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE

- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT

- EX. ASPHALT
- SAWCUT & AC REMOVAL

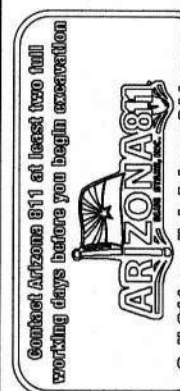
ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860



DWG. No.: **PV-0260**
SHEET 5 OF 42

- REVISIONS:
- REVISD BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
 - REVISD BY BWP ON 8/14/25 PER HDD COMMENTS.
 - REVISD BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
 - REVISD BY BWP ON 11/26 PER HDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality



W.A. No.: 3-6853
SYSTEM: PINAL VALLEY (CG)
LEGAL DESC.: SEC. 34, Q. 1, S. 8, E. 1/2 SEC. 16, N. 1/2 SEC. 16, Q. 1, S. 8, E. 1/2
TAX DIST.: 0404, 0408, 0437, 0438
DATE: 12/19/2025
SCALE: AS SHOWN
DRAWN BY: BWP
CHECKED BY: MC

CONSTRUCTION PLAN/PROFILE
COTTOWOOD LANE AND OVERFIELD ROAD IN CASA GRANDE, AZ

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

MATCHLINE STA. 57+00 SEE SHT. 5

MATCHLINE STA. 61+50 SEE SHT. 7

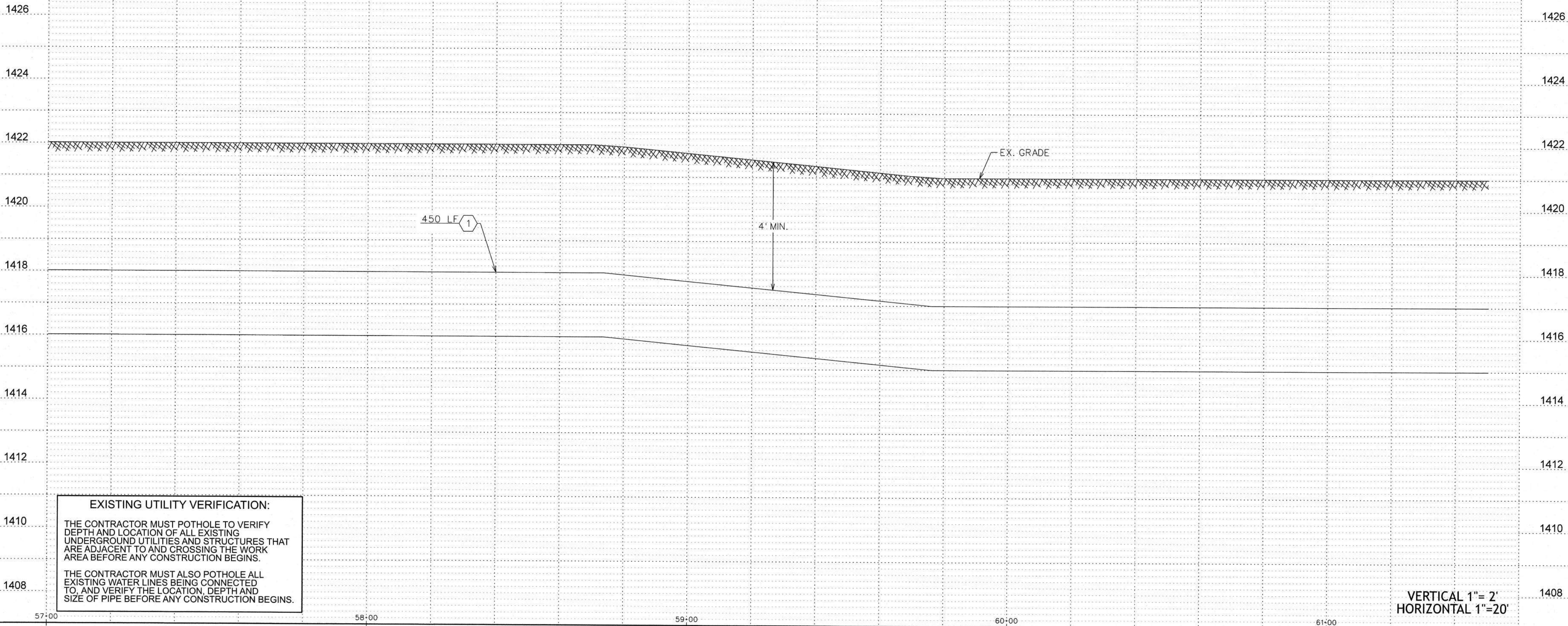
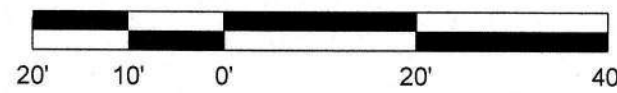
APN
505-24-003M

MISSION PKWY

APN
505-24-004D

APN
505-24-001

CONSTRUCTION PLAN



EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.

THE CONTRACTOR MUST ALSO POTHOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

VERTICAL 1"= 2'
HORIZONTAL 1"= 20'

WATER CONSTRUCTION

- 1 INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 2 INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
- 3 INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 4 INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 5 INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 6 INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
- 7 INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 8 INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 9 INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 10 INSTALL 24" M.J. CROSS
- 11 INSTALL 24" X 16" M.J. CROSS
- 12 INSTALL 24" X 12" M.J. CROSS
- 13 INSTALL 24" M.J. TEE
- 14 INSTALL 24" X 12" M.J. TEE
- 15 INSTALL 24" X 8" M.J. TEE
- 16 INSTALL 12" M.J. TEE
- 17 INSTALL 24" 45° M.J. ELL.
- 18 INSTALL 24" M.J. CAP
- 19 INSTALL 16" M.J. CAP
- 20 INSTALL 12" M.J. CAP
- 21 INSTALL 8" M.J. CAP
- 22 INSTALL 24" X 12" M.J. REDUCER
- 23 INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
- 24 INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
- 25 INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
- 26 TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
- 27 INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
SEE CONSTRUCTION NOTE 22 ON SHT. 1
- 28 INSTALL 12" X 8" M.J. REDUCER
- 29 INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
- 30 SAWCUT AND AC REMOVAL
- 31 INSTALL 24" 90° M.J. ELL.
- 32 INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE

- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT

- EX. ASPHALT
- SAWCUT & AC REMOVAL

- REVISIONS:
- REVISD BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
 - REVISD BY BWP ON 8/14/25 PER HDD COMMENTS.
 - REVISD BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
 - REVISD BY BWP ON 1/8/26 PER HDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Department of Environmental Quality



W.A. No.: 3-6653

SYSTEM: PINAL VALLEY (CG)

LEGAL DESC.: SEC 24, QPT 6 S, R 6 E, E 1/2 SEC. 18, N 1/2 SEC. 19 OF T. 8 S., R. 7 E.

TAX DIST.: D040, D408, D437, D438

DATE: 12/19/2025

SCALE: AS SHOWN

REVIEWED BY: BWP

CHECKED BY: MC

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

PROJECT DESC.: CONSTRUCT 15.00 L.P.D. 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY, COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ.

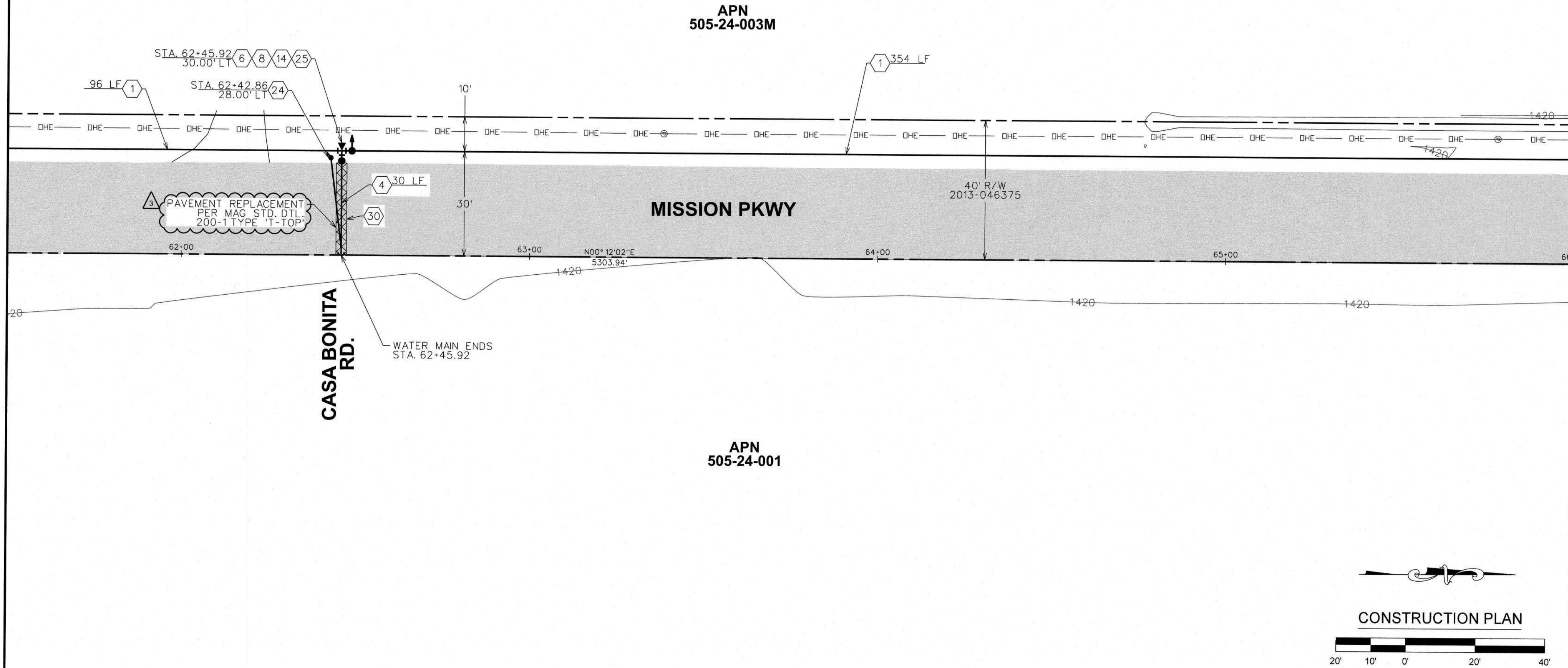
CONSTRUCTION PLAN/PROFILE



DWG. No.: PV-0260
SHEET 6 OF 42

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

MATCHLINE STA. 61+50 SEE SHT. 6

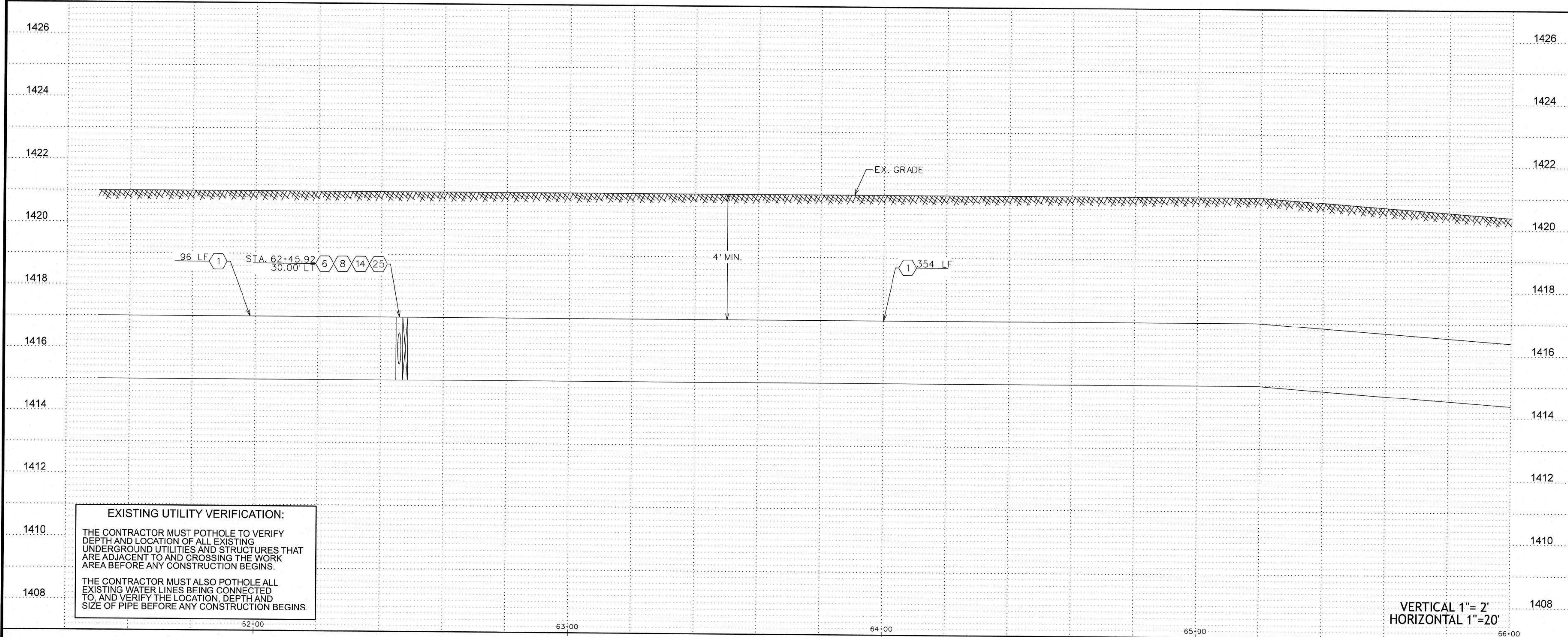


MATCHLINE STA. 66+00 SEE SHT. 8

WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-8-1
28	INSTALL 12" X 8" M.J. REDUCER
29	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
30	SAWCUT AND AC REMOVAL
31	INSTALL 24" 90° M.J. ELL.
32	INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL



ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

CONSTRUCTED BY: ARIZONA WATER COMPANY
PROJECT DESC.: COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ





DWG. No.:

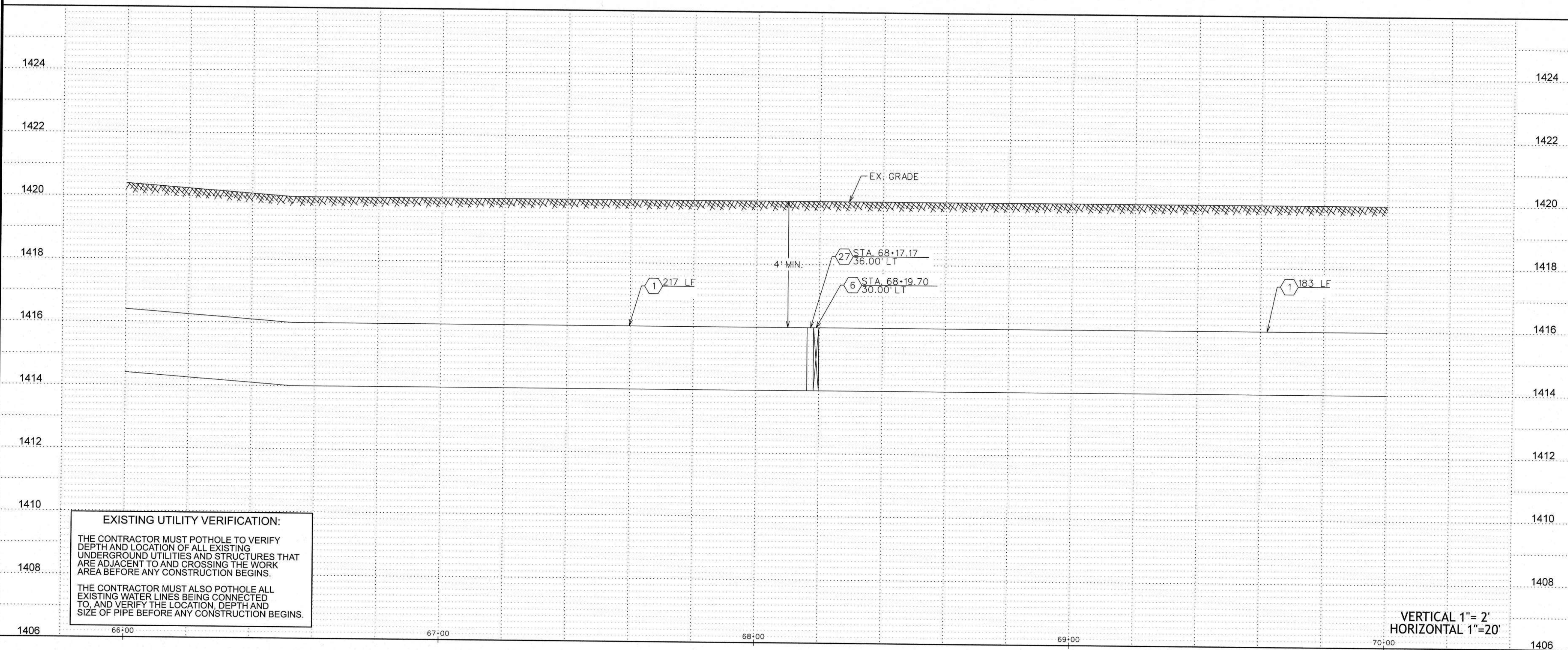
PV-0260

SHEET 7 OF 42

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

[illegible]


CONSTRUCTION PLAN





	WATER CONSTRUCTION
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRU BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-8-1 SEE CONSTRUCTION NOTE 22 ON SHT. 1
28	INSTALL 12" X 8" M.J. REDUCER
29	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
30	SAWCUT AND AC REMOVAL
31	INSTALL 24" 90° M.J. ELL.
32	INSTALL 24" 22.5° M.J. ELL.

LEGEND

⊙ —	EX. UTILITY POLES
W —	EX. WATER METER BOX
H —	EX. FIRE HYDRANT
—	NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
V —	EX. WATER VALVE
S —	EX. SEWER MANHOLE
D —	EX. STORM DRAIN MANHOLE
——— - ———	STREET CENTERLINE/MONUMENT LINE
————- - - ———	RIGHT-OF-WAY LINE
——— - - - ———	PROPERTY LINE
—————	NEW WATER LINE
—— W —— W ——	EX. WATER LINE
—— SW —— SW ——	EX. SEWER LINE
—— SD ——	EX. STORM DRAIN
—— IRR ——	EX. IRRIGATION LINE
—— OHE —— OHE ——	EX. OVERHEAD ELECTRIC
—— UGT —— UGT ——	EX. UNDERGROUND TELECOMM
—— GAS —— GAS ——	EX. UNDERGROUND GAS
—— X —— X ——	EX. FENCE
—— - - - ———	EX. EASEMENT
	EX. ASPHALT
	SAWCUT & AC REMOVAL

- △₁ REVISED BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
- △₂ REVISED BY BWP ON 8/14/25 PER HIDD COMMENTS.
- △₃ REVISED BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
- △₄ REVISED BY BWP ON 11/26/25 PER HIDD COMMENTS.

W.A. No.	3-6653	P.L. No.	
SYSTEM	PINAL VALLEY (CG)		
LEGAL DESC.	SEC. 24 OF DES. 6 S. 6 E. 6 E 1/2 SEC. 24 OF DES. 6 S. 6 E. 6		
TAX DIST.	0404, 0408, 0437, 0438	SIB No.	
DATE:	12/19/2025	SCALE:	AS SHOWN
DRAWN BY:	BWP	CHECKED BY:	MC
<p>The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality</p>			
<p>Standard Arizona R15 and Standard R16 reaching design distance and height restrictions</p> <p>  </p> <p> (call) 800 or 602-498-7555 www.azdeq.gov </p>			

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 243-6860

CONSTRUCTION OF 12' OF 24" INCH I.D. WATER MAIN ALONG MISSION PARKWAY,
COTTONWOOD LANE, AND OVERFIELD ROAD IN GASA GRANDE, AZ.

CONSTRUCTION PLAN/PROFILE

PROJECT DESC.:

PROJECT SHEET DESC.:

FOR BIDDING PURPOSES ONLY

Jan 21, 2026

Engineering Department
Arizona Water Company

DWG. No.:
PV-0260
 SHEET 8 OF 42

MATCHLINE STA. 70+00 SEE SHT. 8

MATCHLINE STA. 74+00 SEE SHT. 10

APN
505-24-003M

APN
505-24-001

MISSION PKWY

CONSTRUCTION PLAN

WATER CONSTRUCTION

- 1 INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 2 INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
- 3 INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 4 INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 5 INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 6 INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
- 7 INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 8 INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 9 INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 10 INSTALL 24" M.J. CROSS
- 11 INSTALL 24" X 16" M.J. CROSS
- 12 INSTALL 24" X 12" M.J. CROSS
- 13 INSTALL 24" M.J. TEE
- 14 INSTALL 24" X 12" M.J. TEE
- 15 INSTALL 24" X 8" M.J. TEE
- 16 INSTALL 12" M.J. TEE
- 17 INSTALL 24" 45° M.J. ELL.
- 18 INSTALL 24" M.J. CAP
- 19 INSTALL 16" M.J. CAP
- 20 INSTALL 12" M.J. CAP
- 21 INSTALL 8" M.J. CAP
- 22 INSTALL 24" X 12" M.J. REDUCER
- 23 INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
- 24 INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
- 25 INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
- 26 TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
- 27 INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
- 28 SEE CONSTRUCTION NOTE 22 ON SHT. 1
- 29 INSTALL 12" X 8" M.J. REDUCER
- 30 SAWCUT AND AC REMOVAL
- 31 INSTALL 24" 90° M.J. ELL.
- 32 INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

CONSTRUCTION PLAN/PROFILE



PV-0260
SHEET 9 OF 42

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

MATCHLINE STA. 74+00 SEE SHT. 9

MATCHLINE STA. 78+00 SEE SHT. 11

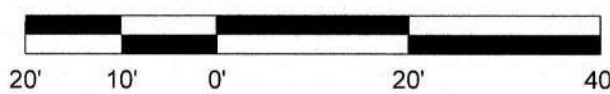
APN
505-24-003M

APN
505-24-003L

APN
505-24-001

MISSION PKWY

CONSTRUCTION PLAN



EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.

THE CONTRACTOR MUST ALSO POTHOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

VERTICAL 1"= 2'
HORIZONTAL 1"=20'

WATER CONSTRUCTION

- 1 INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 2 INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
- 3 INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 4 INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 5 INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 6 INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
- 7 INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
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- 9 INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 10 INSTALL 24" M.J. CROSS
- 11 INSTALL 24" X 16" M.J. CROSS
- 12 INSTALL 24" X 12" M.J. CROSS
- 13 INSTALL 24" M.J. TEE
- 14 INSTALL 24" X 12" M.J. TEE
- 15 INSTALL 24" X 8" M.J. TEE
- 16 INSTALL 12" M.J. TEE
- 17 INSTALL 24" 45° M.J. ELL.
- 18 INSTALL 24" M.J. CAP
- 19 INSTALL 16" M.J. CAP
- 20 INSTALL 12" M.J. CAP
- 21 INSTALL 8" M.J. CAP
- 22 INSTALL 24" X 12" M.J. REDUCER
- 23 INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
- 24 INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
- 25 INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
- 26 TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
- 27 INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
SEE CONSTRUCTION NOTE 22 ON SHT. 1
- 28 INSTALL 12" X 8" M.J. REDUCER
- 29 INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
- 30 SAWCUT AND AC REMOVAL
- 31 INSTALL 24" 90° M.J. ELL.
- 32 INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-8880



DWG. No.:
PV-0260

SHEET 10 OF 42

- REVISIONS
- Δ1 REVISED BY BMP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
 - Δ2 REVISED BY BMP ON 8/14/25 PER HIDD COMMENTS.
 - Δ3 REVISED BY BMP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
 - Δ4 REVISED BY BMP ON 10/25 PER HIDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality



W.A. No.:
SYSTEM
3-6653
PINAL VALLEY (CG)
LEGAL DESC.:
E 1/2 SEC. 16, N 1/2 SEC. 18 OF E.S.R. 7 E.
TAX DIST.:
0404, 0408, 0437, 0438
DATE:
12/19/2025
AS SHOWN
SCALE:
DRAWN BY:
BWP
CHECKED BY:
ML

PROJECT DESC:
CONSTRUCT 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY, COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ.

PROJECT SHEET DESC:
CONSTRUCTION PLAN/PROFILE

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

MATCHLINE STA. 78+00 SEE SHT. 10

MATCHLINE STA. 82+20 SEE SHT. 12

APN
505-24-003L

APN
505-24-001

MISSION PKWY

40' R/W
2013-046375

STA. 81+93.42
30.00' LT

STA. 81+90.36
28.00' LT

30 LF 5

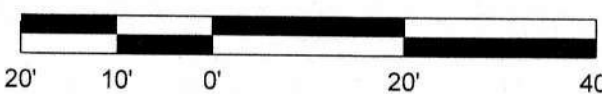
27 LF 1

PAVEMENT REPLACEMENT
PER MAG. STD. DTL.
200-1 TYPE "T-TOP"

WATER MAIN ENDS
STA. 81+93.42



CONSTRUCTION PLAN



1424

1422

1420

1418

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1412

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1408

1406

1424

1422

1420

1418

1416

1414

1412

1410

1408

1406

EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.

THE CONTRACTOR MUST ALSO POTHOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

VERTICAL 1" = 2'
HORIZONTAL 1" = 20'

WATER CONSTRUCTION

- 1 INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 2 INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
- 3 INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 4 INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 5 INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 6 INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
- 7 INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 8 INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 9 INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 10 INSTALL 24" M.J. CROSS
- 11 INSTALL 24" X 16" M.J. CROSS
- 12 INSTALL 24" X 12" M.J. CROSS
- 13 INSTALL 24" M.J. TEE
- 14 INSTALL 24" X 12" M.J. TEE
- 15 INSTALL 24" X 8" M.J. TEE
- 16 INSTALL 12" M.J. TEE
- 17 INSTALL 24" 45° M.J. ELL.
- 18 INSTALL 24" M.J. CAP
- 19 INSTALL 16" M.J. CAP
- 20 INSTALL 12" M.J. CAP
- 21 INSTALL 8" M.J. CAP
- 22 INSTALL 24" X 12" M.J. REDUCER
- 23 INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
- 24 INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
- 25 INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1

- 26 TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
- 27 INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
SEE CONSTRUCTION NOTE 22 ON SHT. 1
- 28 INSTALL 12" X 8" M.J. REDUCER
- 29 INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
- 30 SAWCUT AND AC REMOVAL
- 31 INSTALL 24" 90° M.J. ELL.
- 32 INSTALL 24" 22.5° M.J. ELL.

LEGEND

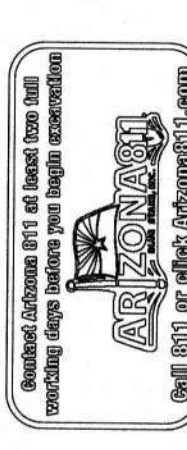
- EX. UTILITY POLES
- Ⓜ EX. WATER METER BOX
- ⊕ EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- ⊕ EX. WATER VALVE
- EX. SEWER MANHOLE
- ⊕ EX. STORM DRAIN MANHOLE

- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- W — W — EX. WATER LINE
- SW — SW — EX. SEWER LINE
- SD — EX. STORM DRAIN
- IRR — EX. IRRIGATION LINE
- DHE — DHE — EX. OVERHEAD ELECTRIC
- UGT — UGT — EX. UNDERGROUND TELECOMM
- GAS — GAS — EX. UNDERGROUND GAS
- X — X — EX. FENCE
- EX. EASEMENT

- EX. ASPHALT
- SAWCUT & AC REMOVAL

- REVISIONS:
- 1 REVISOR: BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
 - 2 REVISOR: BWP ON 8/14/25 PER HDD COMMENTS.
 - 3 REVISOR: BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
 - 4 REVISOR: BWP ON 10/26 PER HDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Construction Specifications on file with the Arizona Department of Environmental Quality



W.A. No.: 3-6653	P.E. No.:
SYSTEM: PINAL VALLEY (CG)	SCALE:
LEGAL DESC.: SEC. 24 OF T. 6 S., R. 9 E. E 1/2 SEC. 18, N 1/2 SEC. 19 OF T. 6 S., R. 9 E.	DATE: 12/19/2025
TAX DIST.: 0404, 0408, 0437, 0438	REVIEWED BY: BWP
DATE: 12/19/2025	CHECKED BY: MC
DRAWN BY: BWP	SCALE: 1" = 20'

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-8860

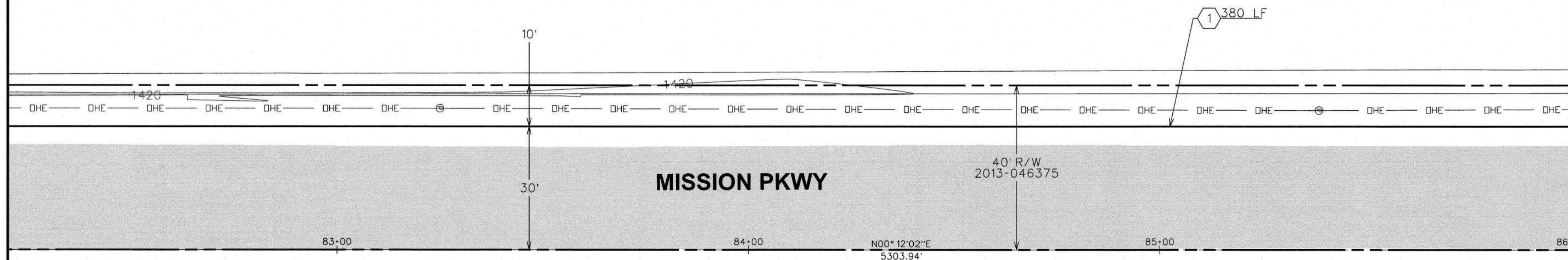
PROJECT DESC.: CONSTRUCT 15,000 LBS OF 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY, COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ.



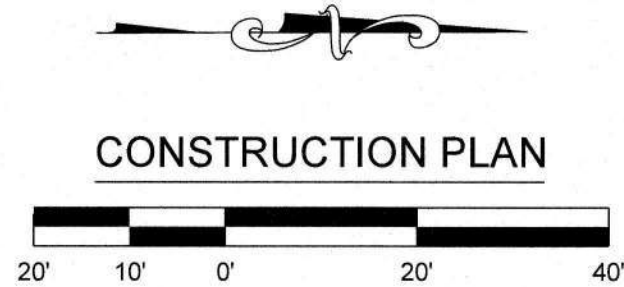
DWG. No.: PV-0260
SHEET 11 OF 42

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

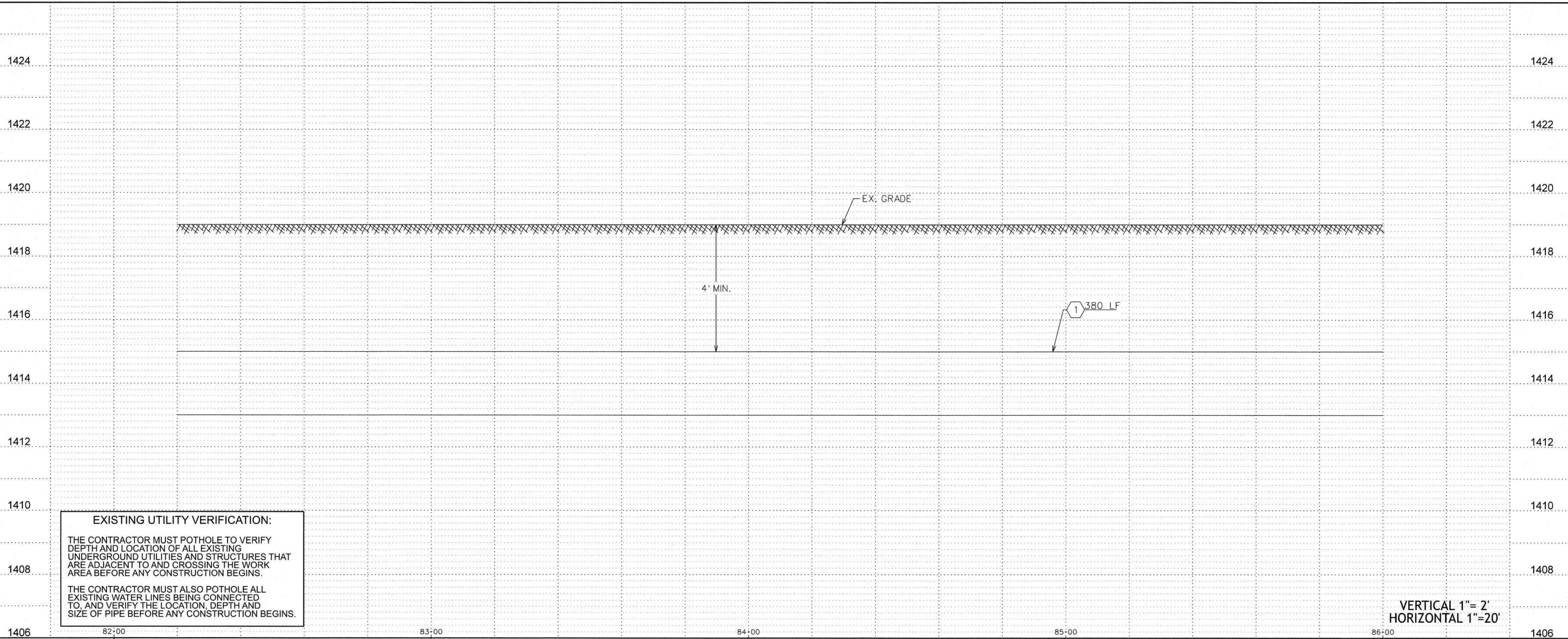
MATCHLINE STA. 82+20 SEE SHT. 11



MATCHLINE STA. 86+00 SEE SHT. 13



CONSTRUCTION PLAN



VERTICAL 1"= 2'
HORIZONTAL 1"=20'

EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.

THE CONTRACTOR MUST ALSO POTHOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

WATER CONSTRUCTION
1. INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2. INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3. INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4. INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5. INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6. INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7. INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8. INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9. INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10. INSTALL 24" M.J. CROSS
11. INSTALL 24" X 16" M.J. CROSS
12. INSTALL 24" X 12" M.J. CROSS
13. INSTALL 24" M.J. TEE
14. INSTALL 24" X 12" M.J. TEE
15. INSTALL 24" X 8" M.J. TEE
16. INSTALL 12" M.J. TEE
17. INSTALL 24" 45° M.J. ELL.
18. INSTALL 24" M.J. CAP
19. INSTALL 16" M.J. CAP
20. INSTALL 12" M.J. CAP
21. INSTALL 8" M.J. CAP
22. INSTALL 24" X 12" M.J. REDUCER
23. INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24. INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25. INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26. TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27. INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28. SEE CONSTRUCTION NOTE 27 ON SHT. 1
29. INSTALL 12" X 8" M.J. REDUCER
30. SAWCUT AND AC REMOVAL
31. INSTALL 24" 90° M.J. ELL.
32. INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY., POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-8880

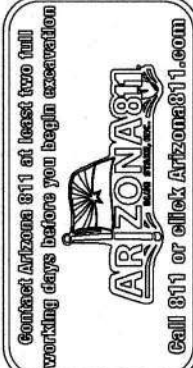


PV-0260

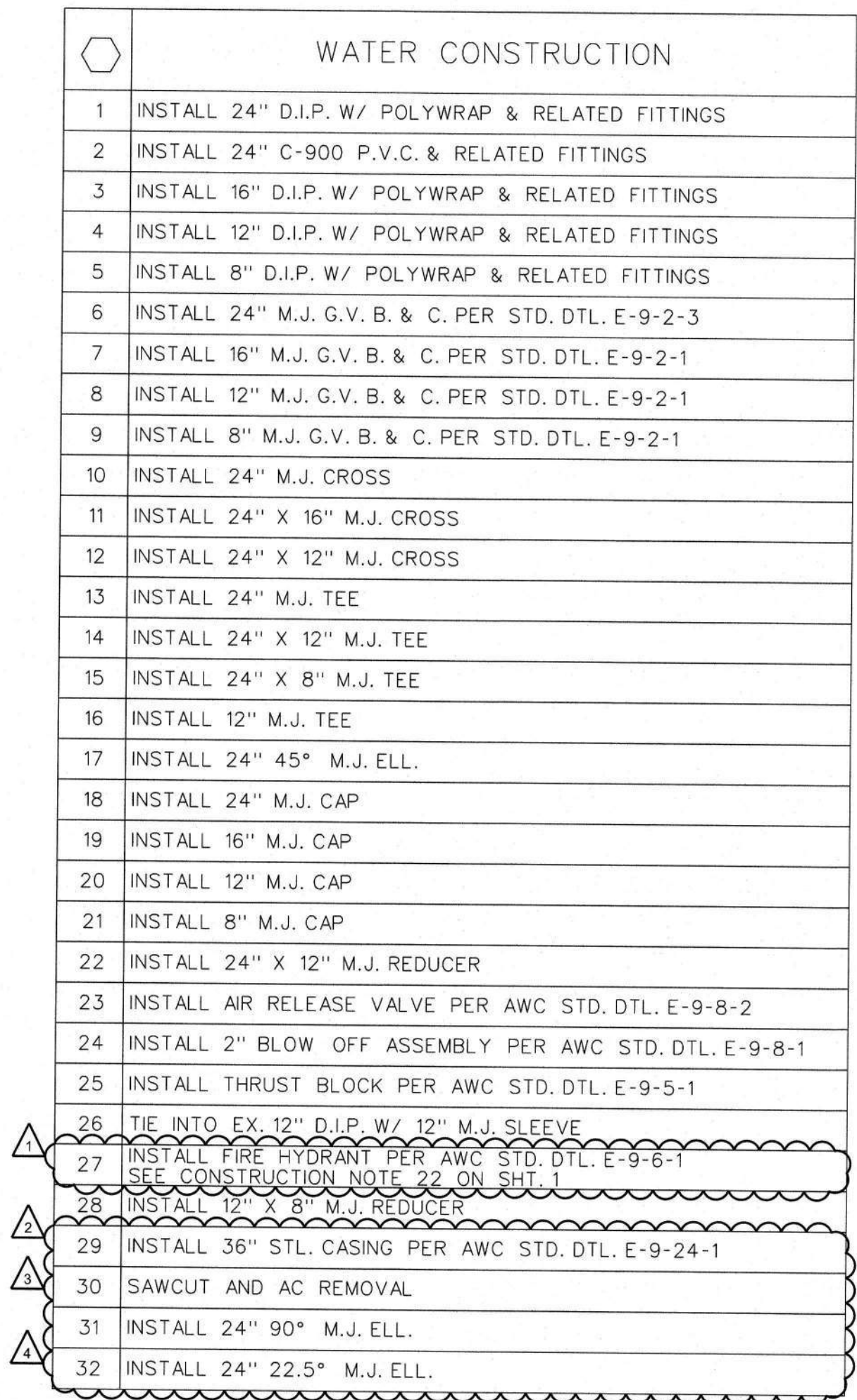
SHEET 12 OF 42

- REVISIONS:
- 1. REVISED BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
 - 2. REVISED BY BWP ON 8/14/25 PER HCD COMMENTS.
 - 3. REVISED BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
 - 4. REVISED BY BWP ON 1/8/26 PER HCD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality.

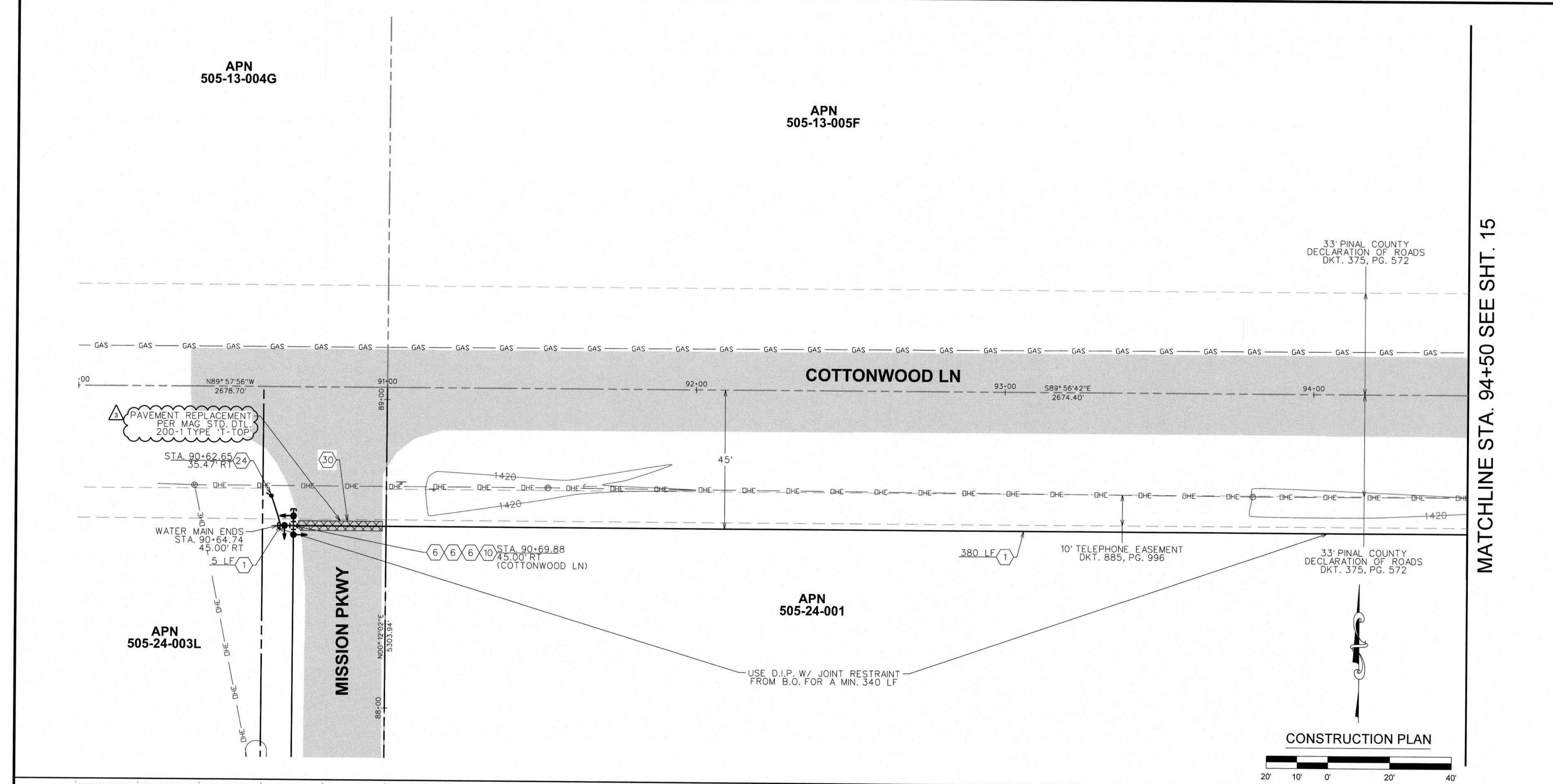


W.A. No.: 3-6653	P.E. No.: 170
SYSTEM: PINAL VALLEY (CG)	SCALE: AS SHOWN
LEGAL DESC.: SEC. 24, OF T. 6 S., R. 6 E. E 1/2 SEC. 16, N 1/2 SEC. 19 OF T. 6 S., R. 7 E.	SUB No.: 0404, 0408, 0437, 0438
TAX DIST.: 0404, 0408, 0437, 0438	DATE: 12/19/2025
DRAWN BY: BWP	REVIEWED BY: 
	CHECKED BY: W

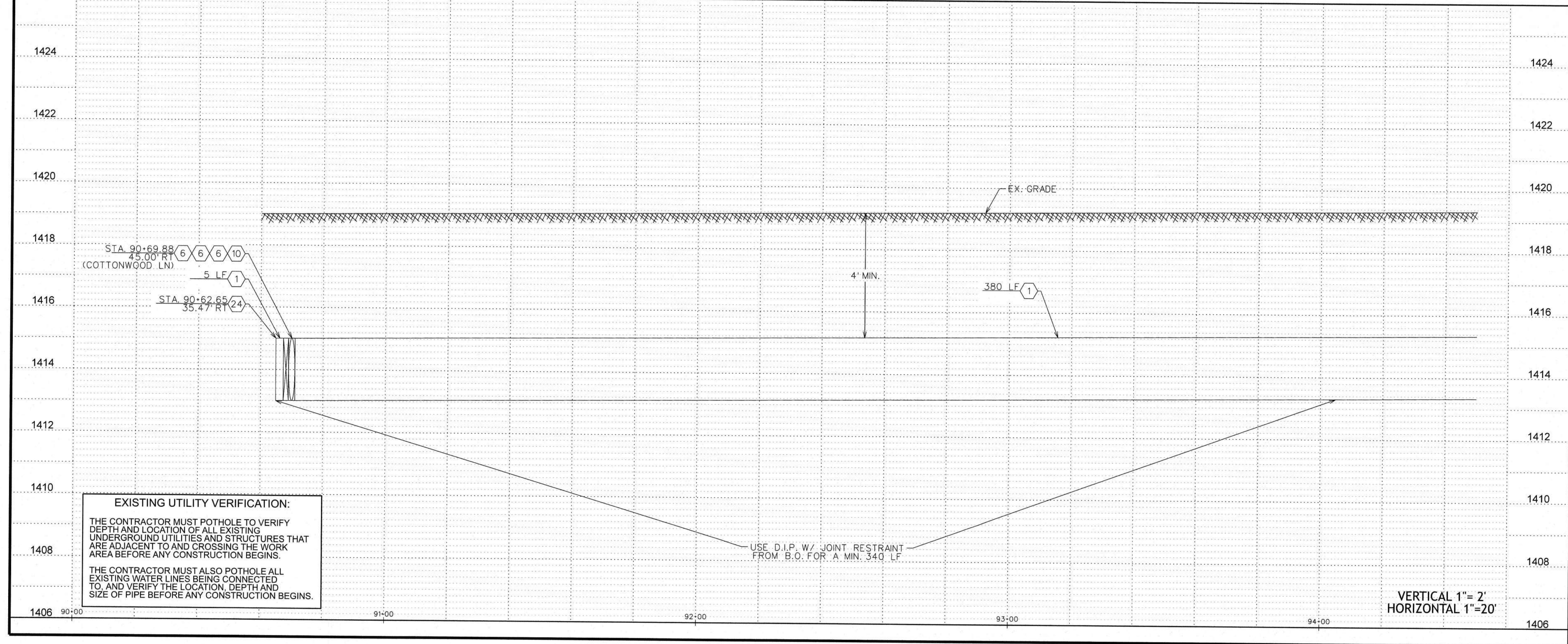
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- FOR BIDDING PURPOSES ONLY
- Jan 21, 2026**
- Engineering Department
Arizona Water Company

DWG. No.:
PV-0260
 SHEET 13 OF 42



MATCHLINE STA. 94+50 SEE SHT. 15



WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28	INSTALL 12" X 8" M.J. REDUCER
29	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
30	SAWCUT AND AC REMOVAL
31	INSTALL 24" 90° M.J. ELL.
32	INSTALL 24" 22.5° M.J. ELL.

- LEGEND
- EX. UTILITY POLES
 - EX. WATER METER BOX
 - EX. FIRE HYDRANT
 - NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
 - EX. WATER VALVE
 - EX. SEWER MANHOLE
 - EX. STORM DRAIN MANHOLE
 - STREET CENTERLINE/MONUMENT LINE
 - RIGHT-OF-WAY LINE
 - PROPERTY LINE
 - NEW WATER LINE
 - EX. WATER LINE
 - EX. SEWER LINE
 - EX. STORM DRAIN
 - EX. IRRIGATION LINE
 - EX. OVERHEAD ELECTRIC
 - EX. UNDERGROUND TELECOMM
 - EX. UNDERGROUND GAS
 - EX. FENCE
 - EX. EASEMENT
 - EX. ASPHALT
 - SAWCUT & AC REMOVAL

REVISIONS:

1. REVISED BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.

2. REVISED BY BWP ON 8/14/25 PER HCD COMMENTS.

3. REVISED BY BWP ON 8/10/25 PER CITY OF CASA GRANDE COMMENTS.

4. REVISED BY BWP ON 1/8/26 PER HCD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Department of Transportation Standard Specifications for the Construction of Highways, 2019 Edition, with the Arizona Department of Environmental Quality.

3-6653

PINAL VALLEY (CG)

SEC. 24, OCT. 8, S. R. 8 E., T. 4 N., R. 7 E.

LEGAL DESC.: E 1/2 SEC. 18, N 1/2 SEC. 19 OF T. 8 S., R. 7 E.

DATE: 12/19/2025

SCALE: 1"=20'

AS SHOWN

CHECKED BY: M/C

REVIEWED BY: BWP

PROJECT SHEET DESC: CONSTRUCTION PLAN/PROFILE

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006

PHOENIX, ARIZONA 85038-9006

(602) 240-6860

CONSTRUCTED BY: ARIZONA WATER COMPANY

PROJECT SHEET DESC: CONSTRUCTION PLAN/PROFILE

70873

AMY WALTHERSON

Expire 3-31-2026

PV-0260

SHEET 14 OF 42

FOR BIDDING PURPOSES ONLY

Jan 21, 2026

Engineering Department

Arizona Water Company

MATCHLINE STA. 94+50 SEE SHT. 14

MATCHLINE STA. 99+00 SEE SHT. 16

APN
505-13-005F

APN
505-24-001

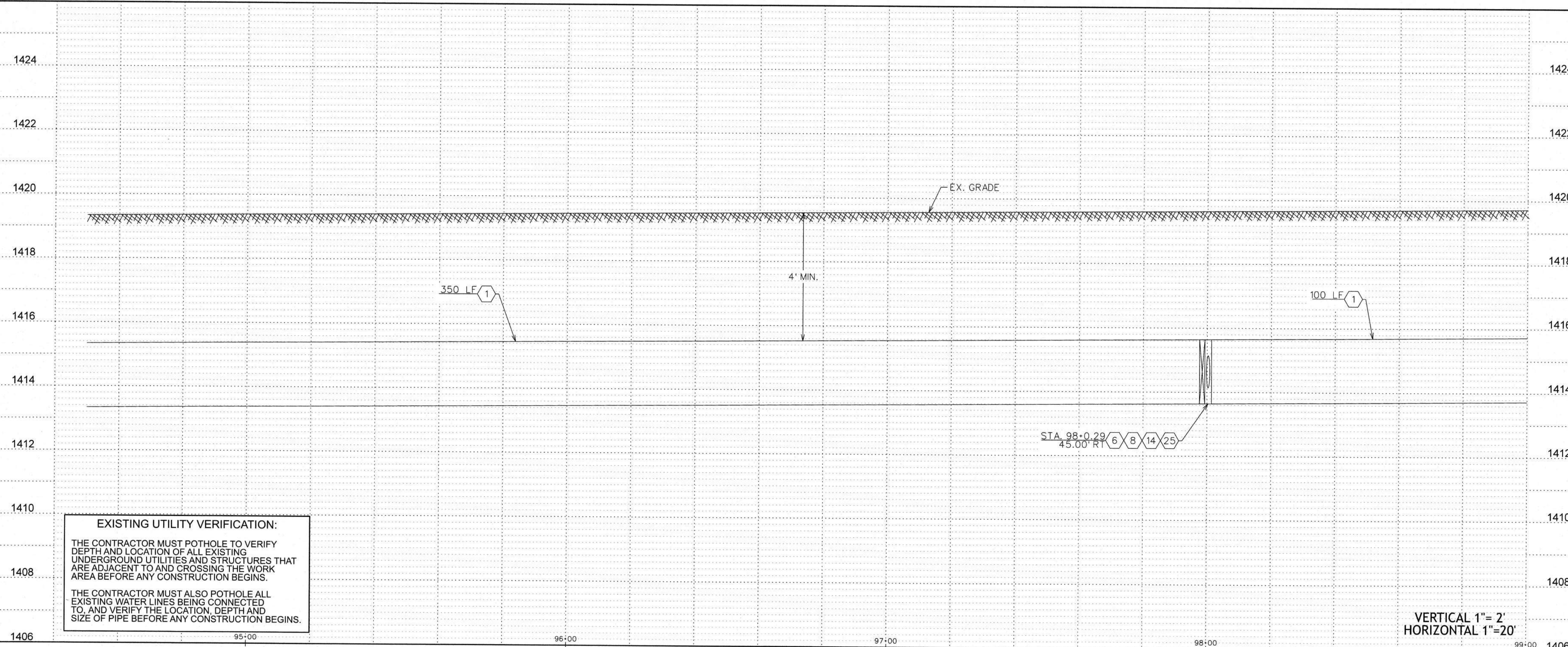
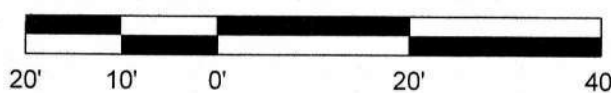
33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

10' TELEPHONE EASEMENT
DKT. 885, PG. 996

COTTONWOOD LN

CONSTRUCTION PLAN



EXISTING UTILITY VERIFICATION:
THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.
THE CONTRACTOR MUST ALSO POTHOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1 SEE CONSTRUCTION NOTE 22 ON SHT. 1
28	INSTALL 12" X 8" M.J. REDUCER
29	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
30	SAWCUT AND AC REMOVAL
31	INSTALL 24" 90° M.J. ELL.
32	INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

CONSTRUCTION PLAN/PROFILE



DWG. No.:
PV-0260

SHEET 15 OF 42

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

MATCHLINE STA. 99+00 SEE SHT. 15

MATCHLINE STA. 103+50 SEE SHT. 17

APN
505-13-005F

APN
505-24-001

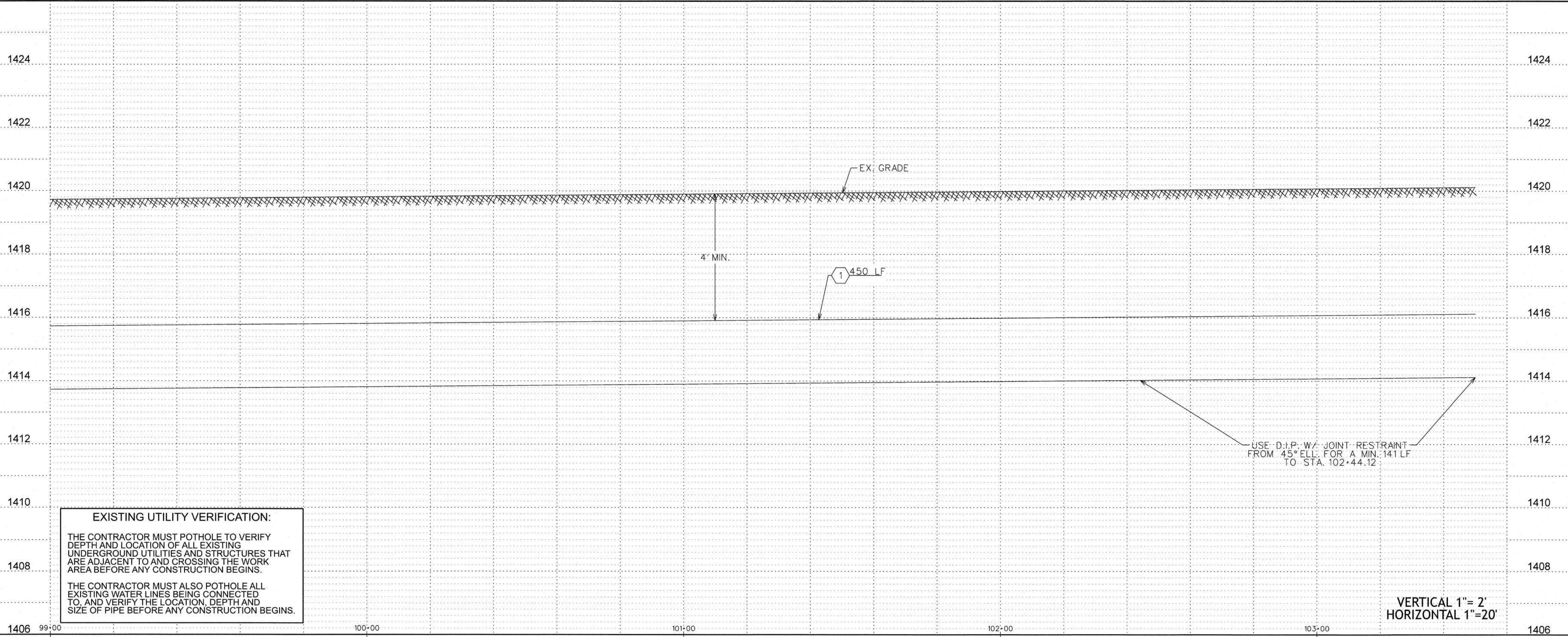
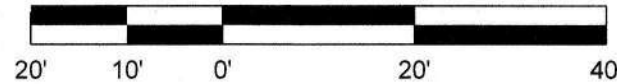
33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

10' TELEPHONE EASEMENT
DKT. 885, PG. 996

USE D.I.P. W/ JOINT RESTRAINT
FROM 45° ELL. FOR A MIN. 141 LF
TO STA. 102+44.12

CONSTRUCTION PLAN



WATER CONSTRUCTION
1 INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2 INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3 INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4 INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5 INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6 INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7 INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8 INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9 INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10 INSTALL 24" M.J. CROSS
11 INSTALL 24" X 16" M.J. CROSS
12 INSTALL 24" X 12" M.J. CROSS
13 INSTALL 24" M.J. TEE
14 INSTALL 24" X 12" M.J. TEE
15 INSTALL 24" X 8" M.J. TEE
16 INSTALL 12" M.J. TEE
17 INSTALL 24" 45° M.J. ELL.
18 INSTALL 24" M.J. CAP
19 INSTALL 16" M.J. CAP
20 INSTALL 12" M.J. CAP
21 INSTALL 8" M.J. CAP
22 INSTALL 24" X 12" M.J. REDUCER
23 INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24 INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25 INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26 TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27 INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28 SEE CONSTRUCTION NOTE 22 ON SHT. 1
29 INSTALL 12" X 8" M.J. REDUCER
30 SAWCUT AND AC REMOVAL
31 INSTALL 24" 90° M.J. ELL.
32 INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-8860

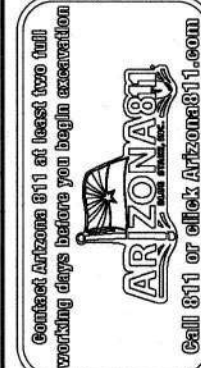


DWG. No.:
PV-0260
SHEET 16 OF 42

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

REVISIONS:
1 REVISED BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
2 REVISED BY BWP ON 8/14/25 PER HCD COMMENTS.
3 REVISED BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
4 REVISED BY BWP ON 1/8/26 PER HCD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality



W.A. No.: 3-6663
SYSTEM: PINAL VALLEY (CG)
LEGAL DESC.: SEE 24' D.I.P. W/ 12" M.J. SLEEVE
E 1/2 SEC. 18, T12S, R16E, S. R. 1/2 E.
TAX DIST.: 0404, 0408, 0437, 0438
DATE: 12/19/2025
AS SHOWN
DRAWN BY: BWP
CHECKED BY: DTC
CREATED BY: MC

MATCHLINE STA. 103+50 SEE SHT. 16

MATCHLINE STA. 108+00 SEE SHT. 18

APN
505-13-005F

APN
505-24-001

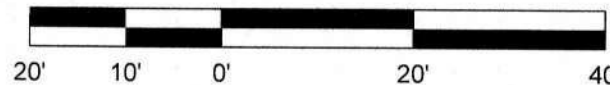
COTTONWOOD LN

33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

10' TELEPHONE EASEMENT
DKT. 885, PG. 996

33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

CONSTRUCTION PLAN



GAS CROSSING NOTES:

1. DOUBLE WRAP ALL FITTINGS WITH POLYWRAP FROM STA. 103+85 TO 104+38
2. INSTALL 24" C-900 PVC FROM STA. 103+85 TO 104+38 ALL MECHANICAL JOINT RESTRAINTS TO BE EBAA IRON SERIES 1900

EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.

THE CONTRACTOR MUST ALSO POTHOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

VERTICAL 1"= 2'
HORIZONTAL 1"=20'

WATER CONSTRUCTION

1. INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2. INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3. INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4. INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
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25. INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
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27. INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28. SEE CONSTRUCTION NOTE 22 ON SHT. 1
29. INSTALL 12" X 8" M.J. REDUCER
30. SAWCUT AND AC REMOVAL
31. INSTALL 24" 90° M.J. ELL.
32. INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

CONSTRUCTED BY: ARIZONA WATER COMPANY
COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ.

CONSTRUCTION PLAN/PROFILE



DWG. No.:

PV-0260

SHEET 17 OF 42

FOR BIDDING PURPOSES ONLY

Jan 21, 2026

Engineering Department
Arizona Water Company

REVISIONS:
REVISOR: [Signature]
DATE: [Date]
REASON: [Reason]

REVISOR: [Signature]
DATE: [Date]
REASON: [Reason]

REVISOR: [Signature]
DATE: [Date]
REASON: [Reason]

REVISOR: [Signature]
DATE: [Date]
REASON: [Reason]

MATCHLINE STA. 108+00 SEE SHT. 17

MATCHLINE STA. 112+50 SEE SHT. 19

APN
505-13-005F

COTTONWOOD LN

33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

10' TELEPHONE EASEMENT
DKT. 885, PG. 996

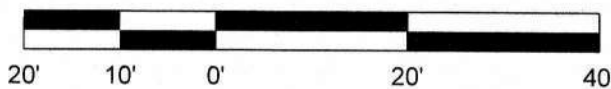
APN
505-24-001

1 282 LF

6 9 15 25 STA 110+82.00
45.00' RT
5 5 LF
21 STA 110+82.00
50.00' RT

1 168 LF

CONSTRUCTION PLAN



1424

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1420

1418

1416

1414

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1408

1406

EXISTING UTILITY VERIFICATION:

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VERTICAL 1"= 2'
HORIZONTAL 1"=20'

WATER CONSTRUCTION

- 1 INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 2 INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
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- 7 INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
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SEE CONSTRUCTION NOTE 22 ON SHT. 1
- 28 INSTALL 12" X 8" M.J. REDUCER
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- 30 SAWCUT AND AC REMOVAL
- 31 INSTALL 24" 90° M.J. ELL.
- 32 INSTALL 24" 22.5° M.J. ELL.

LEGEND

- ⊙ — EX. UTILITY POLES
- ⊞ — EX. WATER METER BOX
- ⊞ — EX. FIRE HYDRANT
- ➔ — NEW HORIZONTAL WATER VALVE
(ARROW INDICATES OPERATING NUT)
- ⊞ — EX. WATER VALVE
- ⊞ — EX. SEWER MANHOLE
- ⊞ — EX. STORM DRAIN MANHOLE
- — — — — STREET CENTERLINE/MONUMENT LINE
- — — — — RIGHT-OF-WAY LINE
- — — — — PROPERTY LINE
- — — — — NEW WATER LINE
- W — W — — EX. WATER LINE
- SW — SW — — EX. SEWER LINE
- SD — — — — EX. STORM DRAIN
- IRR — — — — EX. IRRIGATION LINE
- DHE — DHE — — EX. OVERHEAD ELECTRIC
- UGT — UGT — — EX. UNDERGROUND TELECOMM
- GAS — GAS — — EX. UNDERGROUND GAS
- X — X — — EX. FENCE
- — — — — EX. EASEMENT
- — — — — EX. ASPHALT
- — — — — SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

CONSTRUCTION PLAN/PROFILE



PV-0260
SHEET 18 OF 42

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

MATCHLINE STA. 112+50 SEE SHT. 18

MATCHLINE STA. 117+00 SEE SHT. 20

APN
505-13-005F

APN
505-24-001

COTTONWOOD LN

33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

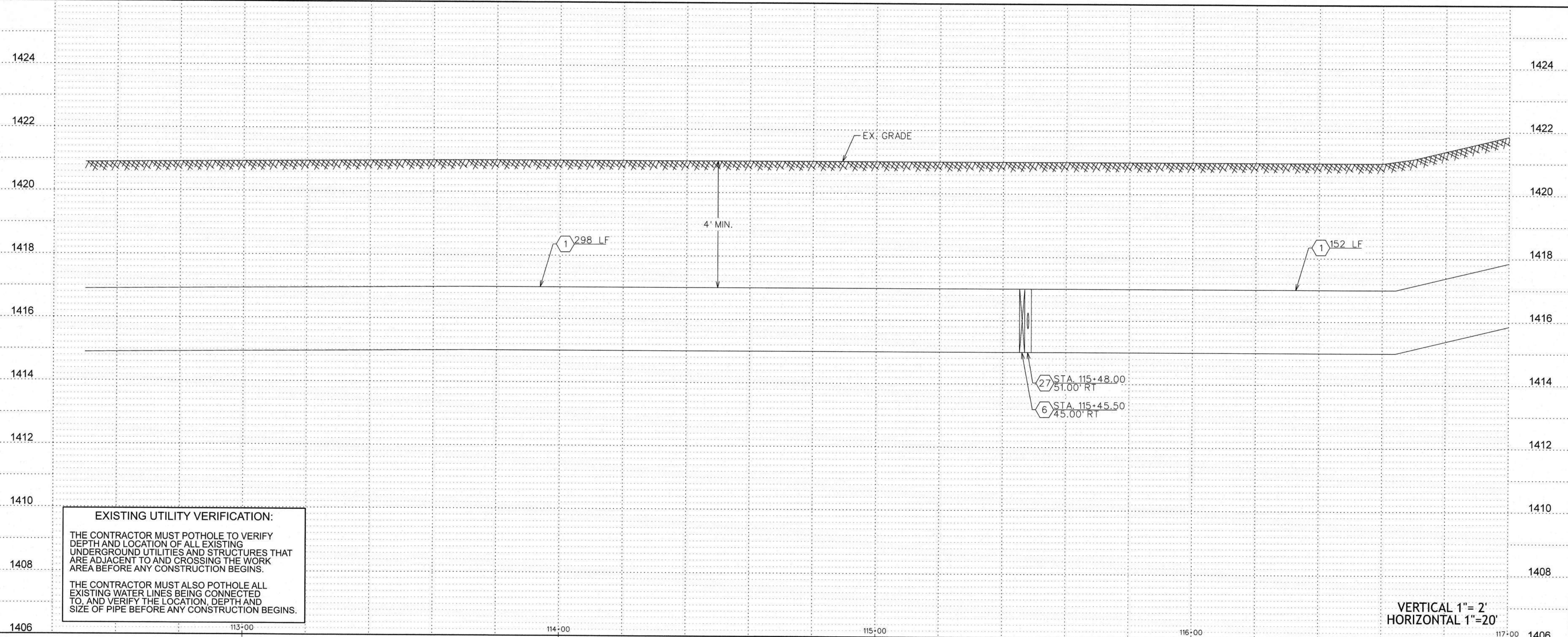
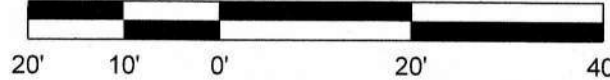
33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

10' TELEPHONE EASEMENT
DKT. 885, PG. 996

STA 115+45.50
45.00' RT

STA 115+48.00
51.00' RT

CONSTRUCTION PLAN



EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.

THE CONTRACTOR MUST ALSO POTHOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

VERTICAL 1"= 2'
HORIZONTAL 1"=20'

WATER CONSTRUCTION

- 1 INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 2 INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
- 3 INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 4 INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 5 INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 6 INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
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- 27 INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
- 28 SEE CONSTRUCTION NOTE 22 ON SHT. 1
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- 30 SAWCUT AND AC REMOVAL
- 31 INSTALL 24" 90° M.J. ELL.
- 32 INSTALL 24" 22.5° M.J. ELL.

LEGEND

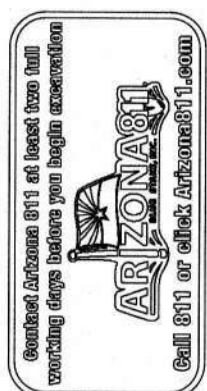
- EX. UTILITY POLES
- EX. WATER METER BOX
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- EX. WATER VALVE
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- STREET CENTERLINE/MONUMENT LINE
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- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT

- EX. ASPHALT
- SAWCUT & AC REMOVAL

- REVISIONS:
- REVISD BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
 - REVISD BY BWP ON 8/14/25 PER HDD COMMENTS.
 - REVISD BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
 - REVISD BY BWP ON 1/8/26 PER HDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company and a final report of Environmental Quality



W.A. No.: 3-6653	P.E. No.: 12/19/2025
SYSTEM: PINAL VALLEY (CG)	SCALE: AS SHOWN
LEGAL DESC.: SEC. 24, QFT. 6.5, R. 6 E, E 1/2 SEC. 18, N 1/2 SEC. 16 OF T. 8 S., R. 7 E.	DRAWN BY: BWP
TAX DIST.: 0404, 0408, 0437, 0438	CHECKED BY: MC
DATE: 12/19/2025	DATE: 12/19/2025

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

CONSTRUCTION PLAN/PROFILE
COTTONWOOD LANE AND OVERFIELD ROAD IN CASA GRANDE, AZ

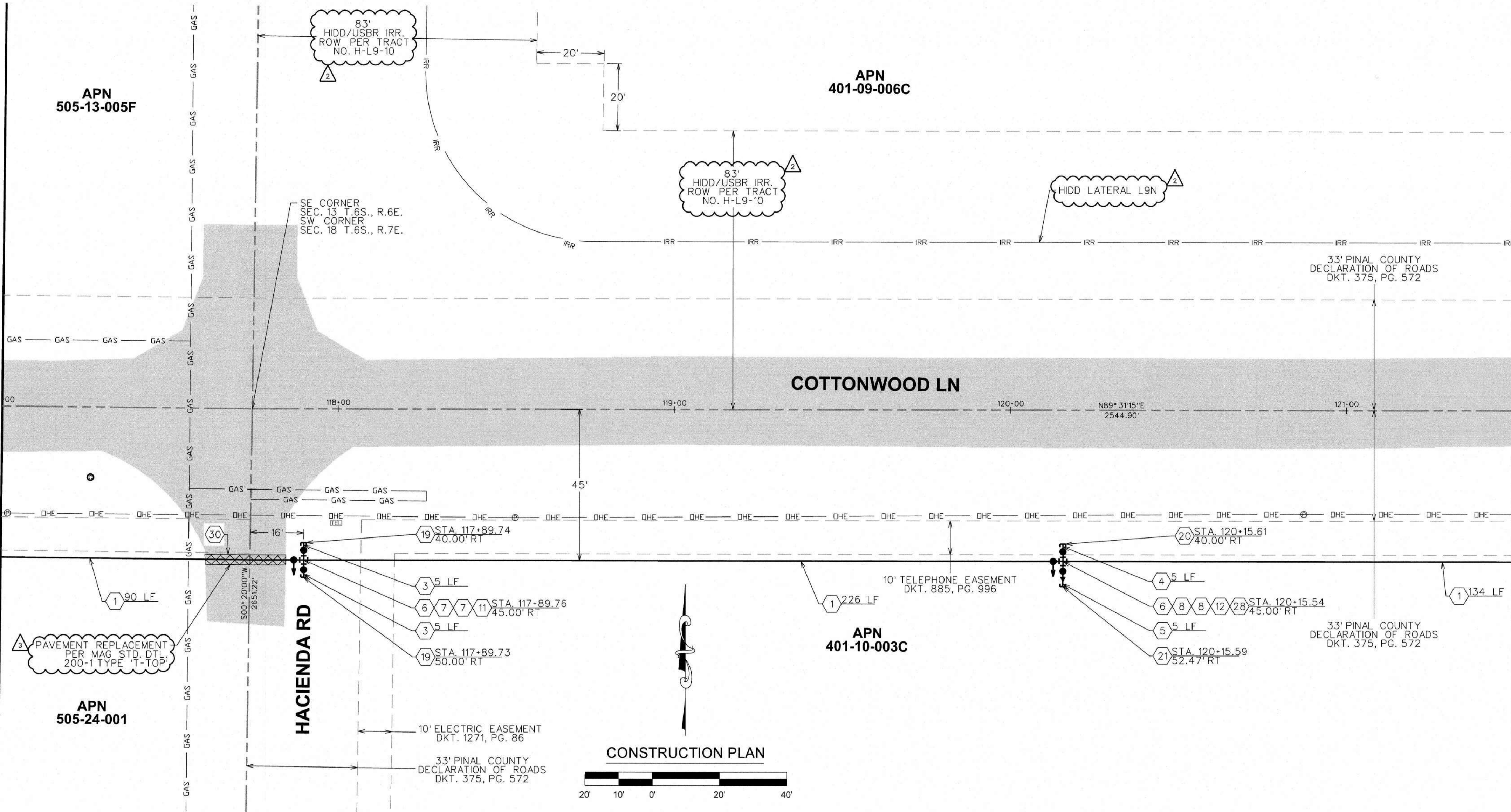


DWG. No.: PV-0260
SHEET 19 OF 42

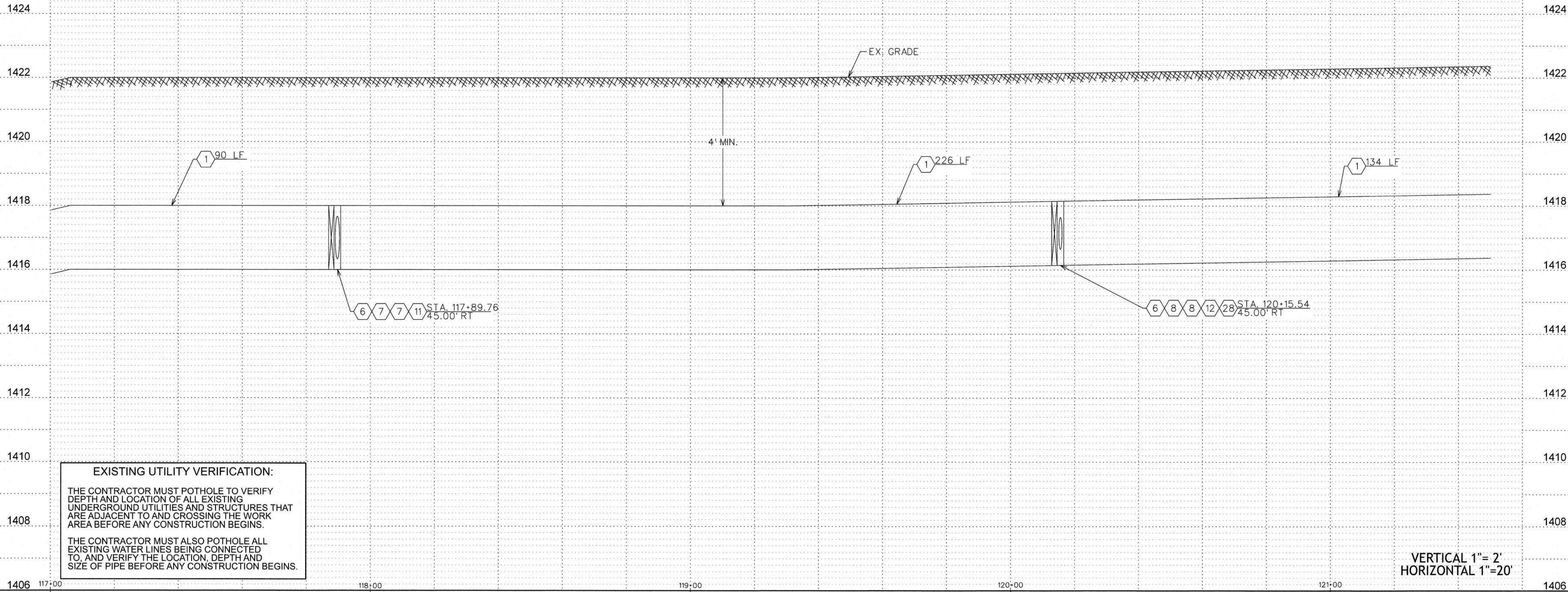
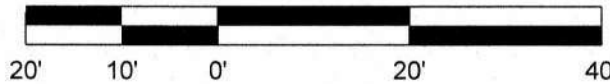
FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

MATCHLINE STA. 117+00 SEE SHT. 19

MATCHLINE STA. 121+50 SEE SHT. 21



CONSTRUCTION PLAN



EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.

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VERTICAL 1"= 2'
HORIZONTAL 1"=20'

WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
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14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
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22	INSTALL 24" X 12" M.J. REDUCER
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26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28	SEE CONSTRUCTION NOTE 22 ON SHT. 1
29	INSTALL 12" X 8" M.J. REDUCER
30	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
31	SAWCUT AND AC REMOVAL
32	INSTALL 24" 90° M.J. ELL.
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LEGEND

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- EX. FIRE HYDRANT
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- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-8880

CONSTRUCTED BY: ARIZONA WATER COMPANY
COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ.

CONSTRUCTION PLAN/PROFILE



DWG. No.: PV-0260

SHEET 20 OF 42

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

MATCHLINE STA. 121+50 SEE SHT. 20

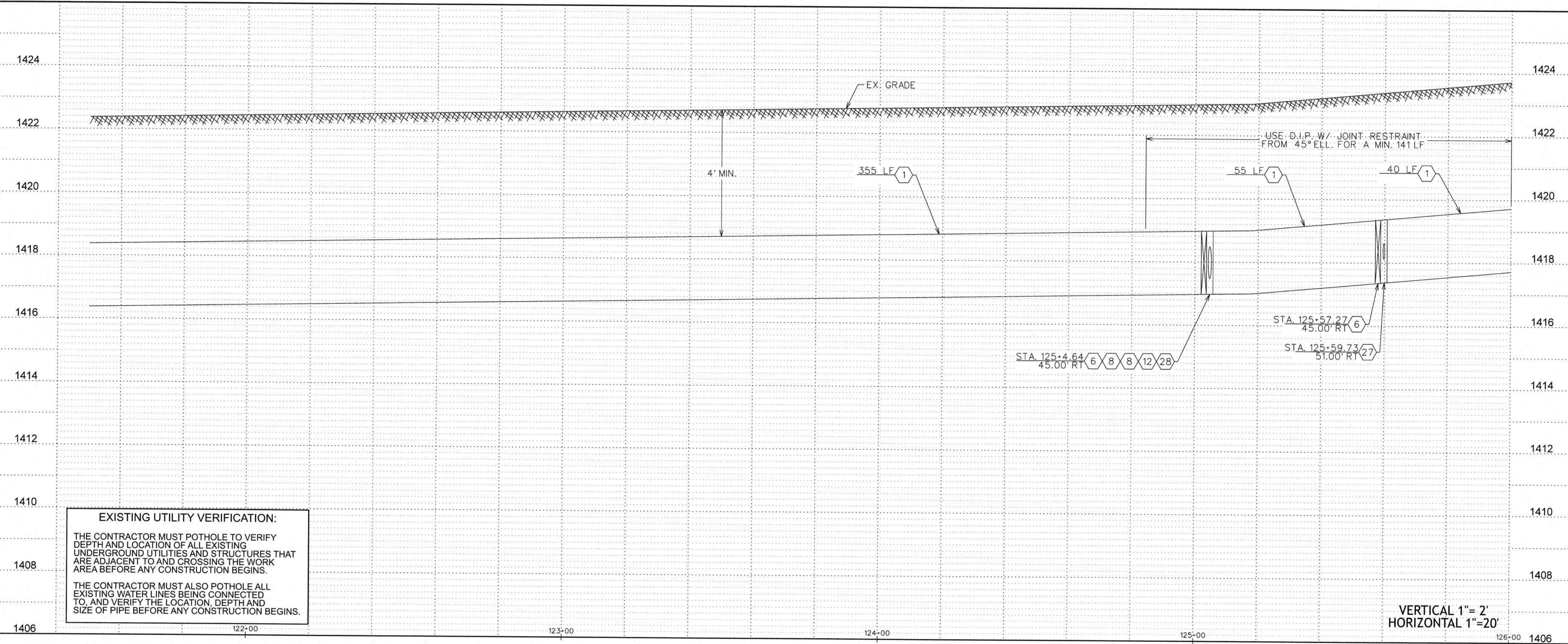
MATCHLINE STA. 126+00 SEE SHT. 22

APN
401-09-006C

COTTONWOOD LN

APN
401-10-003C

CONSTRUCTION PLAN



EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.

THE CONTRACTOR MUST ALSO POTHOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

VERTICAL 1"= 2'
HORIZONTAL 1"=20'

WATER CONSTRUCTION

- 1 INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 2 INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
- 3 INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 4 INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 5 INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 6 INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
- 7 INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 8 INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 9 INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 10 INSTALL 24" M.J. CROSS
- 11 INSTALL 24" X 16" M.J. CROSS
- 12 INSTALL 24" X 12" M.J. CROSS
- 13 INSTALL 24" M.J. TEE
- 14 INSTALL 24" X 12" M.J. TEE
- 15 INSTALL 24" X 8" M.J. TEE
- 16 INSTALL 12" M.J. TEE
- 17 INSTALL 24" 45° M.J. ELL.
- 18 INSTALL 24" M.J. CAP
- 19 INSTALL 16" M.J. CAP
- 20 INSTALL 12" M.J. CAP
- 21 INSTALL 8" M.J. CAP
- 22 INSTALL 24" X 12" M.J. REDUCER
- 23 INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
- 24 INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
- 25 INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
- 26 TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
- 27 INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
- 28 INSTALL 12" X 8" M.J. REDUCER
- 29 INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
- 30 SAWCUT AND AC REMOVAL
- 31 INSTALL 24" 90° M.J. ELL.
- 32 INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

PROJECT DESC.:
CONSTRUCT 48" D.I.P. OF 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY,
COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ

CONSTRUCTION PLAN/PROFILE



DWG. No.:

PV-0260

SHEET 21 OF 42

REVISIONS:
△ REVISED BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.

△ REVISED BY BWP ON 8/14/25 PER HIDD COMMENTS.

△ REVISED BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.

△ REVISED BY BWP ON 1/8/26 PER HIDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality



W.A. No.: 3-6853

SYSTEM: PINAL VALLEY (CG)

LEGAL DESC.: SEC. 24 OF T. 8 S. R. 1 E. E 1/2 SEC. 18 N 1/2 SEC. 19 OF T. 8 S. R. 1 E.

TAX DIST.: 0404, 0408, 0437, 0438

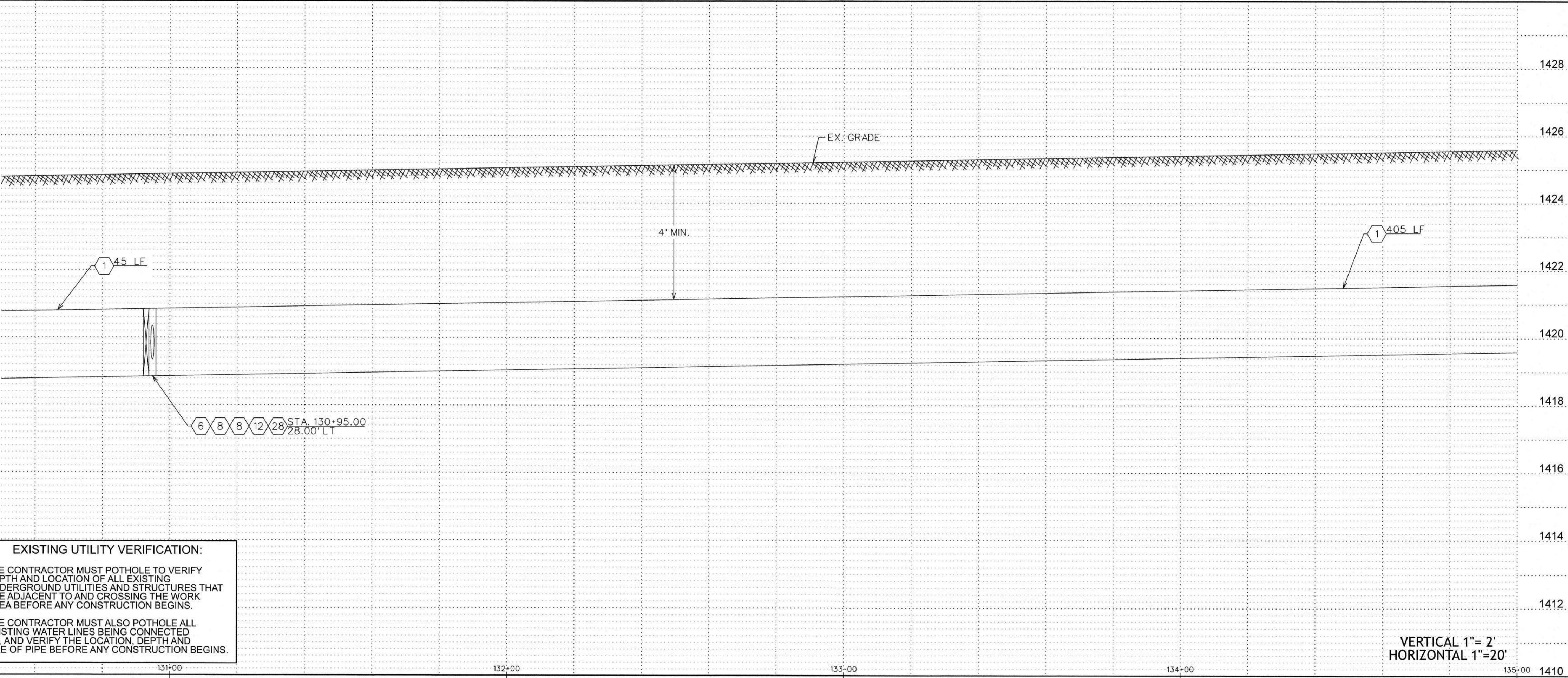
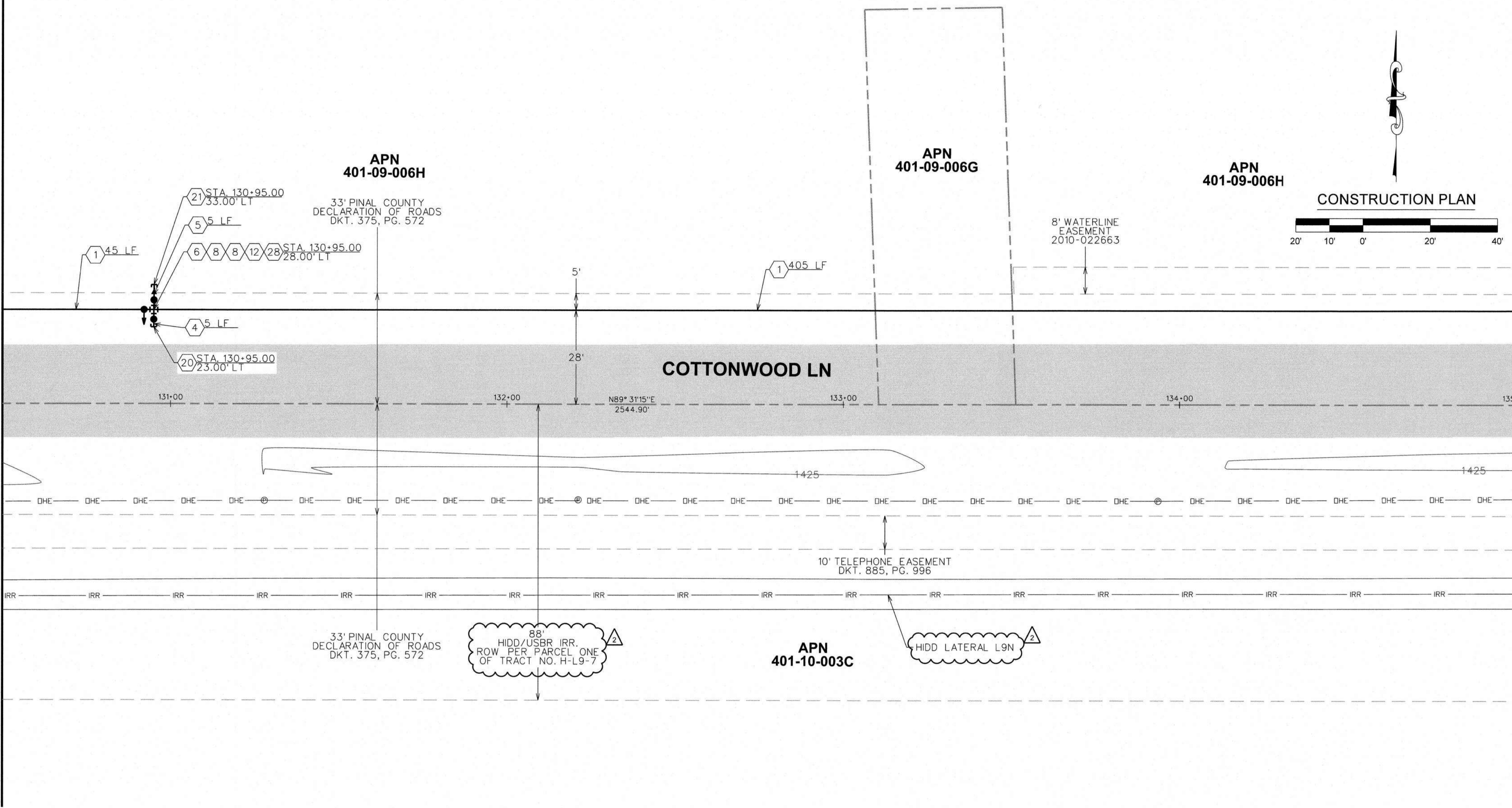
DATE: 12/19/2025

DRAWN BY: BWP

CHECKED BY: MC

MATCHLINE STA. 130+50 SEE SHT. 22

MATCHLINE STA. 135+00 SEE SHT. 24



WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28	INSTALL 12" X 8" M.J. REDUCER
29	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
30	SAWCUT AND AC REMOVAL
31	INSTALL 24" 90° M.J. ELL.
32	INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE

- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT

- EX. ASPHALT
- SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-8880

CONSTRUCTION PLAN/PROFILE
COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ



DWG. No.: **PV-0260**

SHEET 23 OF 42

- REVISIONS:
 - REVISED BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
 - REVISED BY BWP ON 8/14/25 PER HCD COMMENTS.
 - REVISED BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
 - REVISED BY BWP ON 10/25 PER HCD COMMENTS.

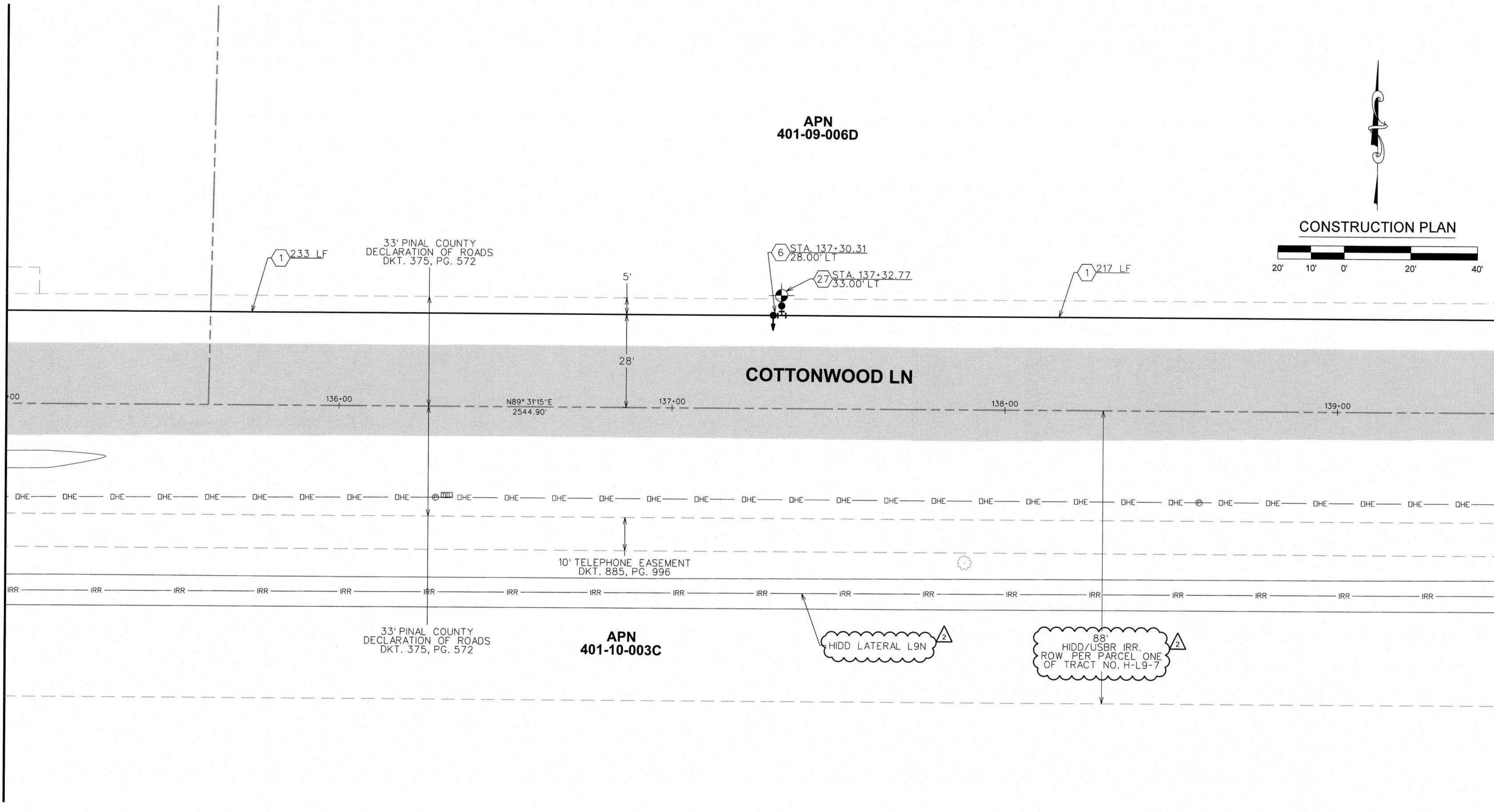
The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality.

ARIZONA WATER COMPANY
Standard Specifications for Water and Sewer Construction
Revised 8/15/24 by BWP (BWP@arizona.com)

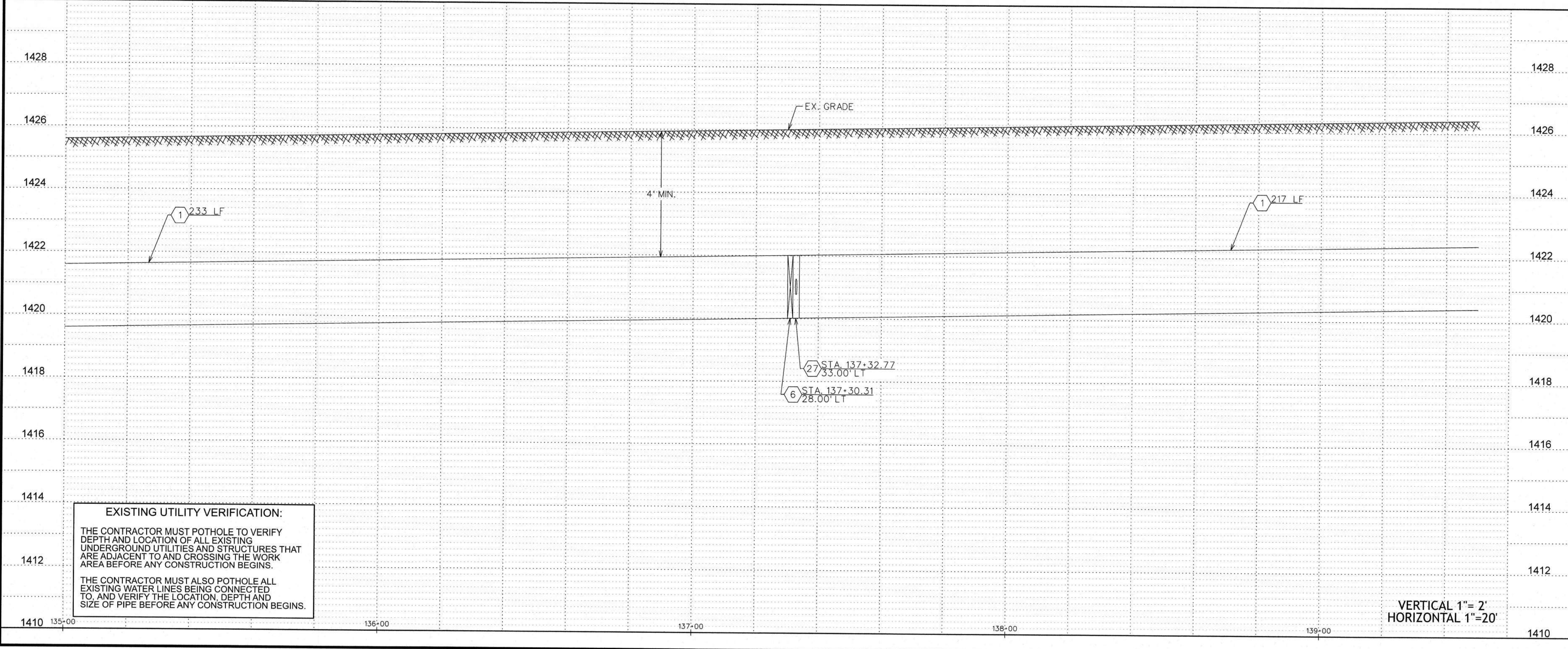
W.A. No.: 3-8653
SYSTEM: PINAL VALLEY (CG)
LEGAL DESC.: SEC. 24, 04' T. 6 S. & E. E 1/2 SEC. 18, N 1/2 SEC. 19 OF T. 6 S., R. 7 E.
TAX DIST.: 0404, 0408, 0437, 0438
DATE: 12/19/2025
DRAWN BY: BWP
CHECKED BY: JUC
AS SHOWN: 12/19/2025

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

MATCHLINE STA. 135+00 SEE SHT. 23



MATCHLINE STA. 139+50 SEE SHT. 25



VERTICAL 1"= 2'
HORIZONTAL 1"=20'

WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28	INSTALL 12" X 8" M.J. REDUCER
29	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
30	SAWCUT AND AC REMOVAL
31	INSTALL 24" 90° M.J. ELL.
32	INSTALL 24" 22.5° M.J. ELL.

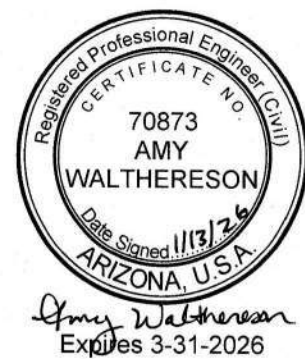
LEGEND

- EX. UTILITY POLES
- ⊞ EX. WATER METER BOX
- ⊞ EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- ⊞ EX. WATER VALVE
- ⊞ EX. SEWER MANHOLE
- ⊞ EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- W W EX. WATER LINE
- SW SW EX. SEWER LINE
- SD EX. STORM DRAIN
- IRR EX. IRRIGATION LINE
- DHE DHE EX. OVERHEAD ELECTRIC
- UGT UGT EX. UNDERGROUND TELECOMM
- GAS GAS EX. UNDERGROUND GAS
- X X EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 28006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

CONSTRUCTED BY: ARIZONA WATER COMPANY
COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ

CONSTRUCTION PLAN/PROFILE



DWG. No.:

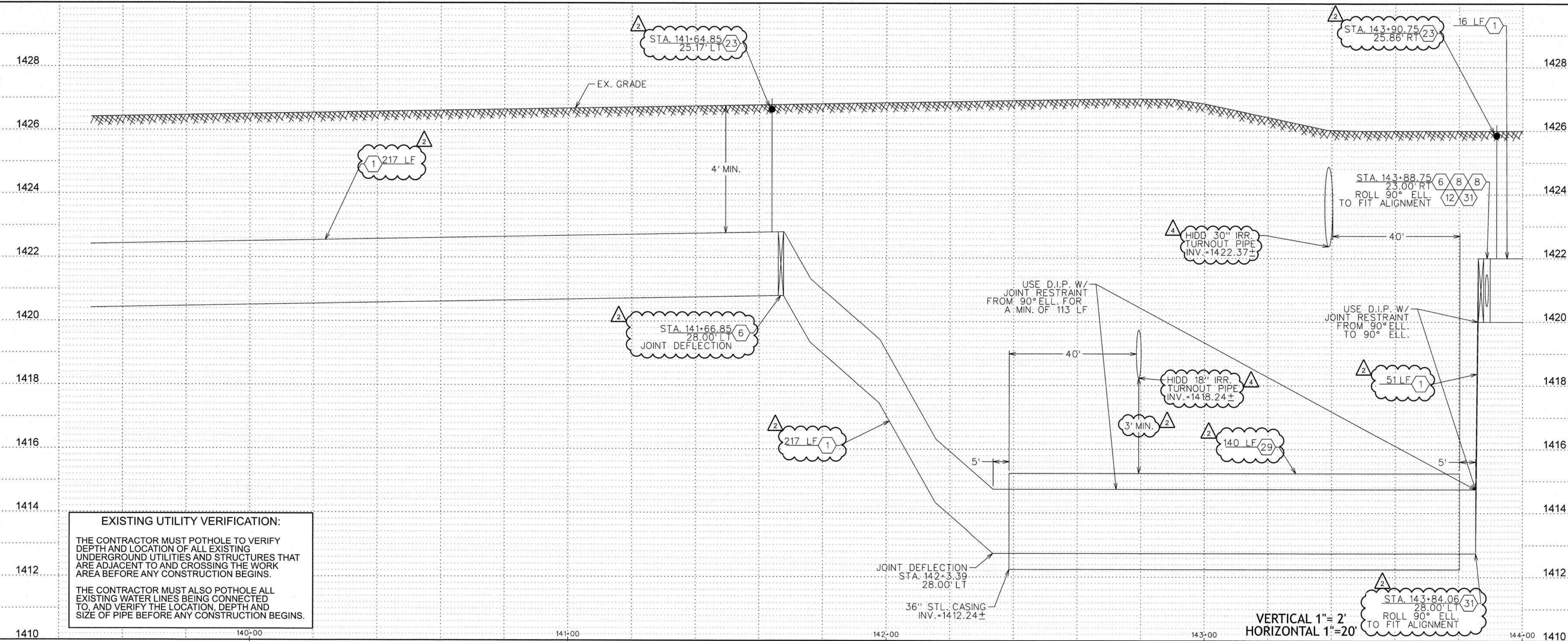
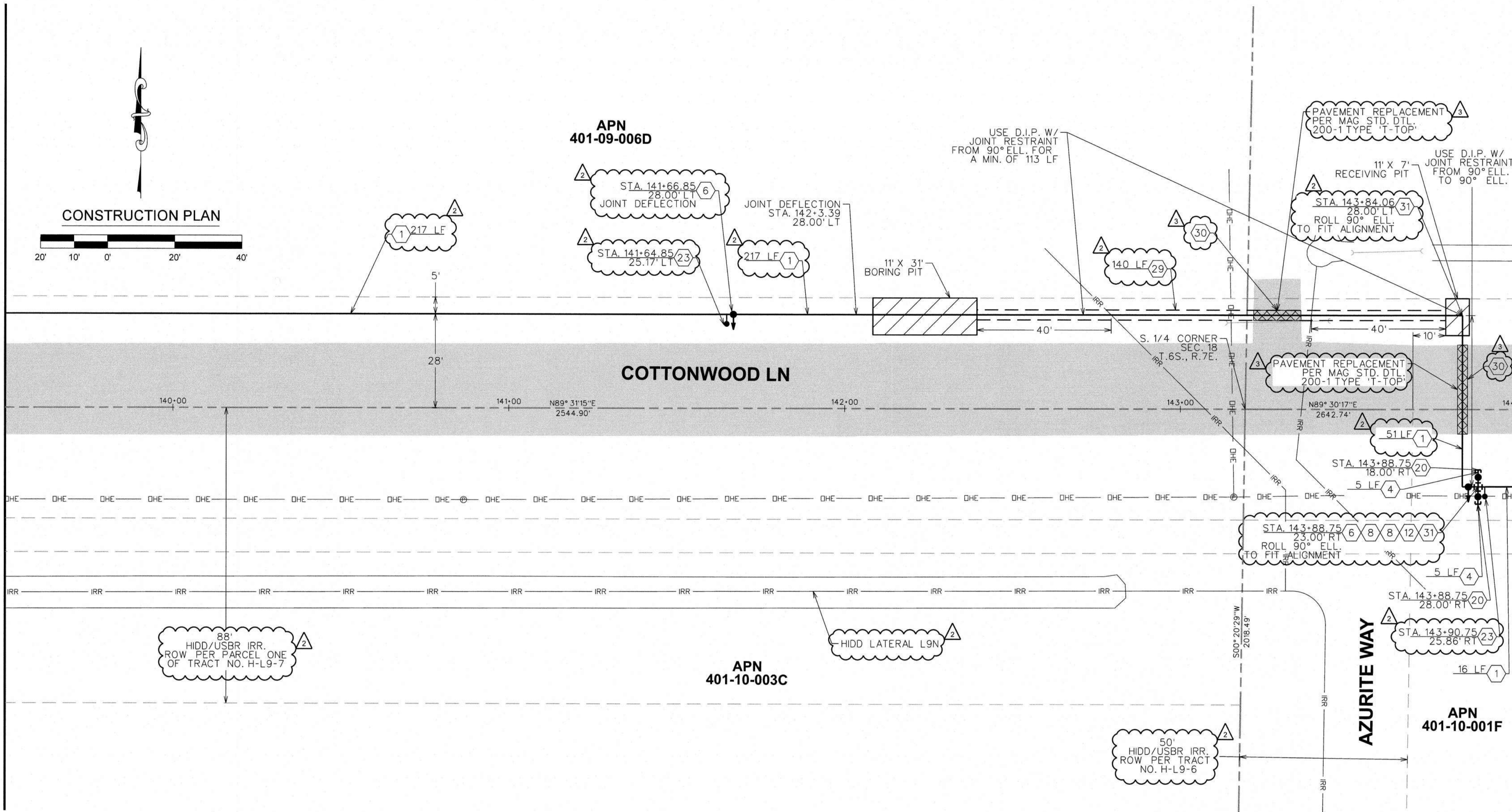
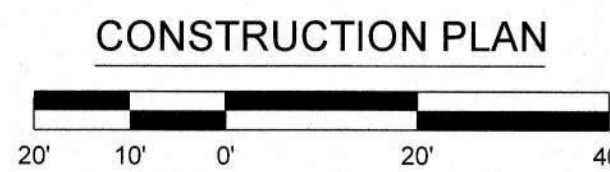
PV-0260

SHEET 24 OF 42

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

MATCHLINE STA. 139+50 SEE SHT. 24

MATCHLINE STA. 144+00 SEE SHT. 26



EXISTING UTILITY VERIFICATION:
THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.
THE CONTRACTOR MUST ALSO POTHOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28	SEE CONSTRUCTION NOTE 22 ON SHT. 1
29	INSTALL 12" X 8" M.J. REDUCER
30	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
31	INSTALL 24" 90° M.J. ELL.
32	INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860



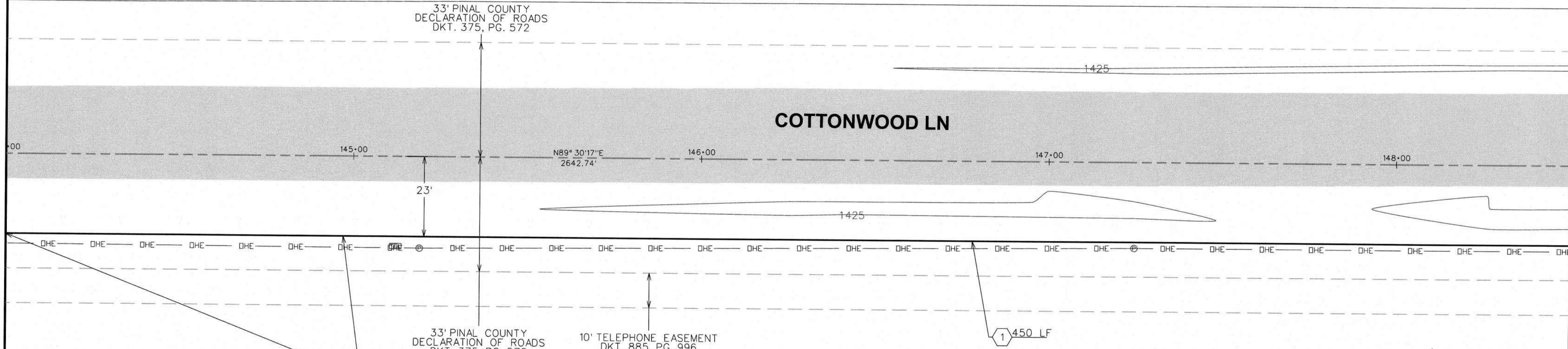
DWG. No.: **PV-0260**

SHEET 25 OF 42

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

MATCHLINE STA. 144+00 SEE SHT. 25

APN
401-09-007B



APN
401-10-001F

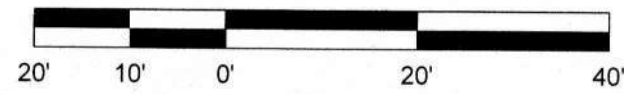
USE D.I.P. W/
JOINT RESTRAINT
FROM 90° ELL. FOR
A MIN. OF 113 LF

10' TELEPHONE EASEMENT
DKT. 885, PG. 996

1 450 LF



CONSTRUCTION PLAN



MATCHLINE STA. 148+50 SEE SHT. 27

WATER CONSTRUCTION

1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-1
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1

26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-3
28	SEE CONSTRUCTION NOTE 22 ON SHT. 1
28	INSTALL 12" X 8" M.J. REDUCER
29	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
30	SAWCUT AND AC REMOVAL
31	INSTALL 24" 90° M.J. ELL.
32	INSTALL 24" 22.5° M.J. ELL.

LEGEND

- ⊖ — EX. UTILITY POLES
- Ⓜ — EX. WATER METER BOX
- Ⓢ — EX. FIRE HYDRANT
- — NEW HORIZONTAL WATER VALVE
(ARROW INDICATES OPERATING NUT)
- Ⓦ — EX. WATER VALVE
- Ⓢ — EX. SEWER MANHOLE
- Ⓢ — EX. STORM DRAIN MANHOLE

STREET CENTERLINE/MONUMENT LINE

RIGHT-OF-WAY LINE

PROPERTY LINE

NEW WATER LINE

EX. WATER LINE

EX. SEWER LINE

EX. STORM DRAIN

EX. IRRIGATION LINE

EX. OVERHEAD ELECTRIC

EX. UNDERGROUND TELECOMM

EX. UNDERGROUND GAS

EX. FENCE

EX. EASEMENT

EX. ASPHALT

3 SAWCUT & AC REMOVAL

EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.

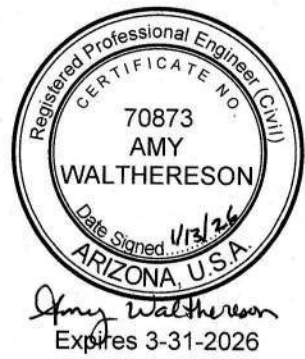
THE CONTRACTOR MUST ALSO POTHOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

VERTICAL 1"= 2'
HORIZONTAL 1"=20'

FOR BIDDING PURPOSES ONLY

Jan 21, 2026

Engineering Department
Arizona Water Company



DWG. No.:

PV-0260

SHEET 26 OF 42

MATCHLINE STA. 148+50 SEE SHT. 26

MATCHLINE STA. 153+00 SEE SHT. 28

APN
401-09-007B

APN
401-09-007A

APN
401-10-001F

33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

10' TELEPHONE EASEMENT
DKT. 885, PG. 996

COTTONWOOD LN

CONSTRUCTION PLAN



WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
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11	INSTALL 24" X 16" M.J. CROSS
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13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
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27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28	SEE CONSTRUCTION NOTE 22 ON SHT. 1
29	INSTALL 12" X 8" M.J. REDUCER
30	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
31	SAWCUT AND AC REMOVAL
32	INSTALL 24" 90° M.J. ELL.
33	INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

CONSTRUCTION PLAN/PROFILE
COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ.



PV-0260
SHEET 27 OF 42

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

MATCHLINE STA. 153+00 SEE SHT. 27

MATCHLINE STA. 157+50 SEE SHT. 29

APN
401-09-007A

APN
401-10-001F

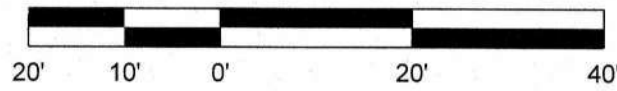
33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

10' TELEPHONE EASEMENT
DKT. 885, PG. 996

COTTONWOOD LN

CONSTRUCTION PLAN



EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POT-HOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.

THE CONTRACTOR MUST ALSO POT-HOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

VERTICAL 1"= 2'
HORIZONTAL 1"=20'

WATER CONSTRUCTION

- 1 INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 2 INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
- 3 INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 4 INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 5 INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 6 INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
- 7 INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 8 INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 9 INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 10 INSTALL 24" M.J. CROSS
- 11 INSTALL 24" X 16" M.J. CROSS
- 12 INSTALL 24" X 12" M.J. CROSS
- 13 INSTALL 24" M.J. TEE
- 14 INSTALL 24" X 12" M.J. TEE
- 15 INSTALL 24" X 8" M.J. TEE
- 16 INSTALL 12" M.J. TEE
- 17 INSTALL 24" 45° M.J. ELL.
- 18 INSTALL 24" M.J. CAP
- 19 INSTALL 16" M.J. CAP
- 20 INSTALL 12" M.J. CAP
- 21 INSTALL 8" M.J. CAP
- 22 INSTALL 24" X 12" M.J. REDUCER
- 23 INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
- 24 INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
- 25 INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
- 26 TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
- 27 INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
SEE CONSTRUCTION NOTE 22 ON SHT. 1
- 28 INSTALL 12" X 8" M.J. REDUCER
- 29 INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
- 30 SAWCUT AND AC REMOVAL
- 31 INSTALL 24" 90° M.J. ELL.
- 32 INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE
(ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT

EX. ASPHALT

SAWCUT & AC REMOVAL

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

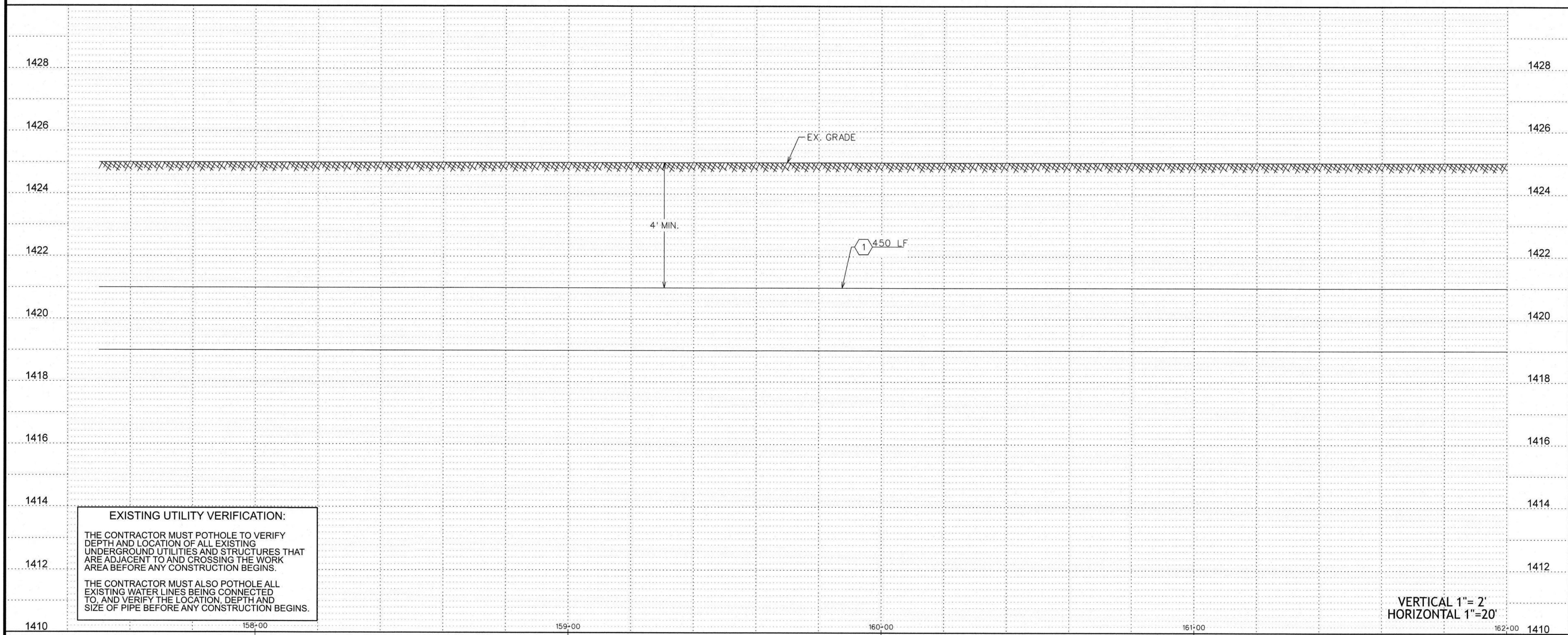
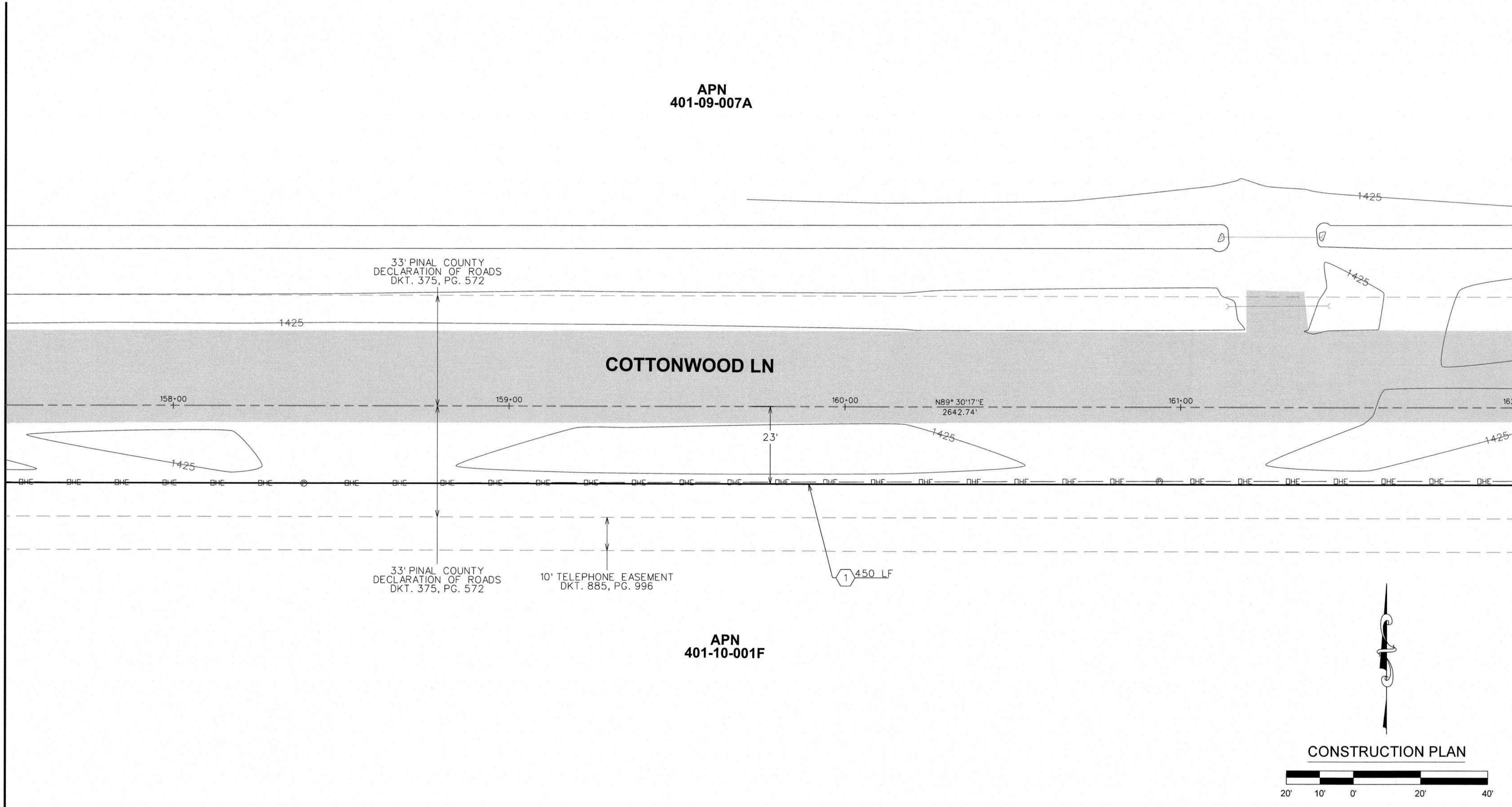
CONSTRUCTION PLAN/PROFILE
COTTONWOOD LANE AND OVERFIELD ROAD IN CASA GRANDE, AZ.


























DWG. No.:
PV-0260
SHEET 28 OF 42

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

MATCHLINE STA. 157+50 SEE SHT. 28



WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
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12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
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24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-8-1 SEE CONSTRUCTION NOTE 22 ON SHT. 1
28	INSTALL 12" X 8" M.J. REDUCER
29	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
30	SAWCUT AND AC REMOVAL
31	INSTALL 24" 90° M.J. ELL.
32	INSTALL 24" 22.5° M.J. ELL.

- ### LEGEND
- | | |
|---|---|
|  | EX. UTILITY POLES |
|  | EX. WATER METER BOX |
|  | EX. FIRE HYDRANT |
|  | NEW HORIZONTAL WATER VALVE
(ARROW INDICATES OPERATING NUT) |
|  | EX. WATER VALVE |
|  | EX. SEWER MANHOLE |
|  | EX. STORM DRAIN MANHOLE |
|  | STREET CENTERLINE/MONUMENT LINE |
|  | RIGHT-OF-WAY LINE |
|  | PROPERTY LINE |
|  | NEW WATER LINE |
|  | EX. WATER LINE |
|  | EX. SEWER LINE |
|  | EX. STORM DRAIN |
|  | EX. IRRIGATION LINE |
|  | EX. OVERHEAD ELECTRIC |
|  | EX. UNDERGROUND TELECOMM |
|  | EX. UNDERGROUND GAS |
|  | EX. FENCE |
|  | EX. EASEMENT |
|  | EX. ASPHALT |
|  | |
|  | SAWCUT & AC REMOVAL |

FOR BIDDING PURPOSES ONLY

Jan 21, 2026

Engineering Department
Arizona Water Company

		CONSTRUCTION PLAN/PROFILE	
ARIZONA WATER COMPANY 3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006 PHOENIX, ARIZONA 85038-9006 (602) 240-6860		PROJECT DESIG: CONSTRUCT 16,900 L.P.D. OF 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY, COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ. PROJECT SHEET DESC:	
W.A. No.:	3-6653	P.E. No.:	
SYSTEM:	PINAL VALLEY (CG)	SCALE:	AS SHOWN
LEGAL DESC.:	SEC. 24, Q. 1, S. 18, E. 1/2 SEC. 18, N. 1/2 SEC. 18 OF T. 5 S., R. 7 E.	TAX DIST.:	0404, 0408, 0437, 0438
		DATE:	12/19/2025
DRAWN BY: BWP		REVIEWED BY: MC	
DWG. No.:		SHEET 29 OF 42	

REVISIONS:

△ REVISED BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.

△ REVISED BY BWP ON 8/14/25 PER HIDD COMMENTS.

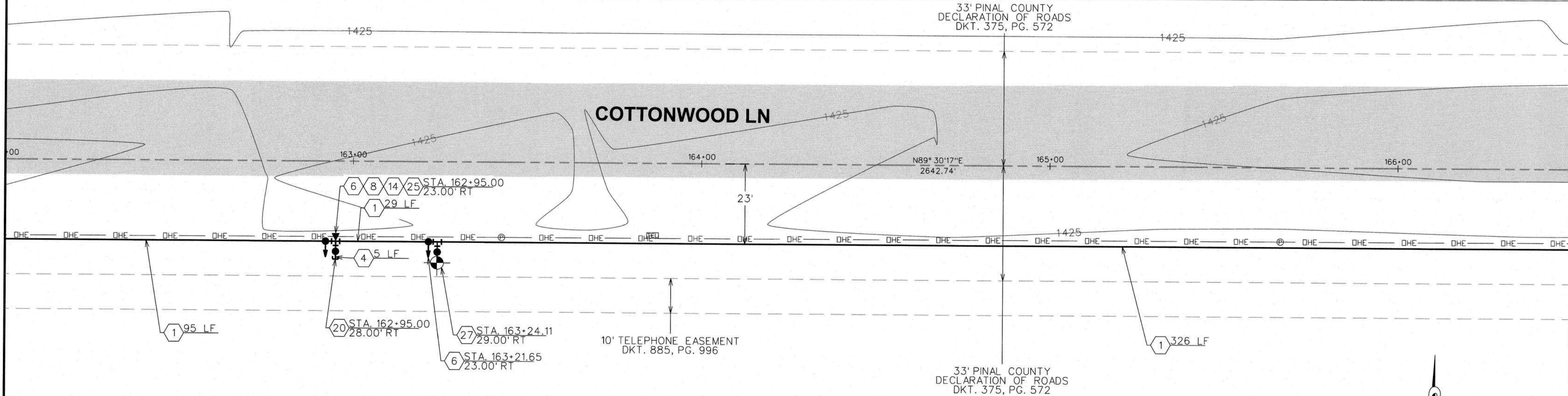
△ REVISED BY BWP ON 8/10/25 PER CITY OF CASA GRANDE COMMENTS.

△ REVISED BY BWP ON 11/26/25 PER HIDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality

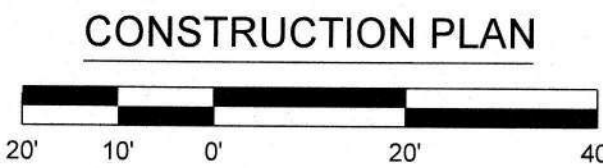
MATCHLINE STA. 162+00 SEE SHT. 29

APN
401-09-007A



MATCHLINE STA. 166+50 SEE SHT. 31

APN
401-10-001F



CONSTRUCTION PLAN

WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
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17	INSTALL 24" 45° M.J. ELL.
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30	SAWCUT AND AC REMOVAL
31	INSTALL 24" 90° M.J. ELL.
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LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.

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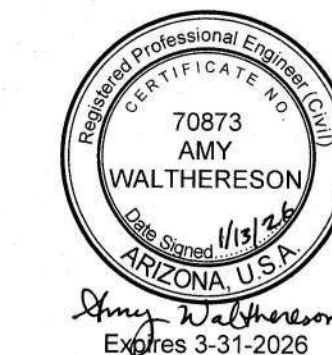
VERTICAL 1"= 2'
HORIZONTAL 1"=20'

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

CONSTRUCTED BY: ARIZONA WATER COMPANY
COTTONWOOD LANE, AND OVERHEAD ROAD IN CASA GRANDE, AZ.

CONSTRUCTION PLAN/PROFILE



DWG. No.:

PV-0260

SHEET 30 OF 42

FOR BIDDING PURPOSES ONLY

Jan 21, 2026

Engineering Department
Arizona Water Company

MATCHLINE STA. 166+50 SEE SHT. 30

APN
401-09-007A

COTTONWOOD LN

APN
401-10-001F

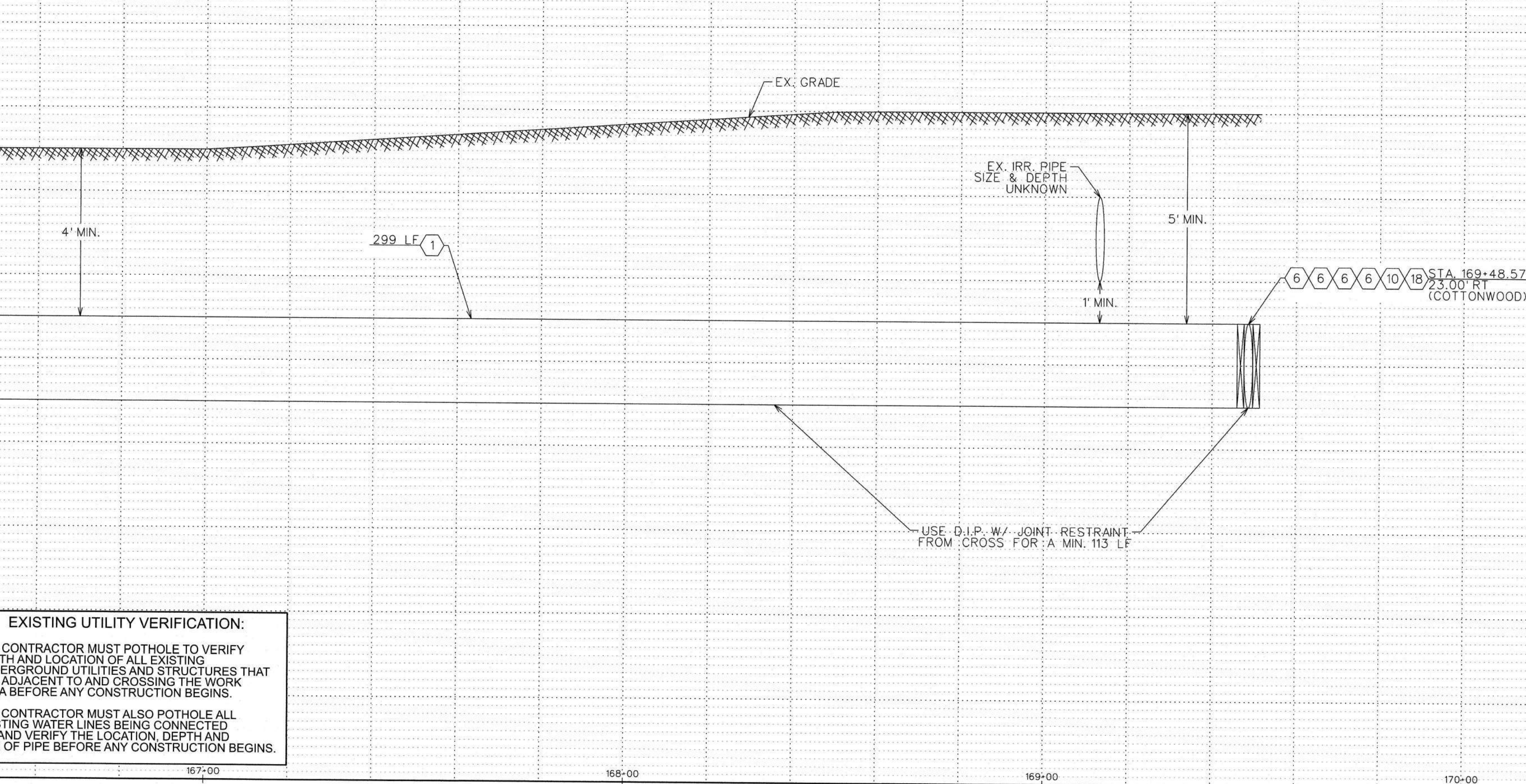
OVERFIELD RD

APN
401-01-046C

CONSTRUCTION PLAN

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
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VERTICAL 1"= 2'
HORIZONTAL 1"=20'

WATER CONSTRUCTION	
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4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
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10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28	INSTALL 12" X 8" M.J. REDUCER
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ARIZONA WATER COMPANY

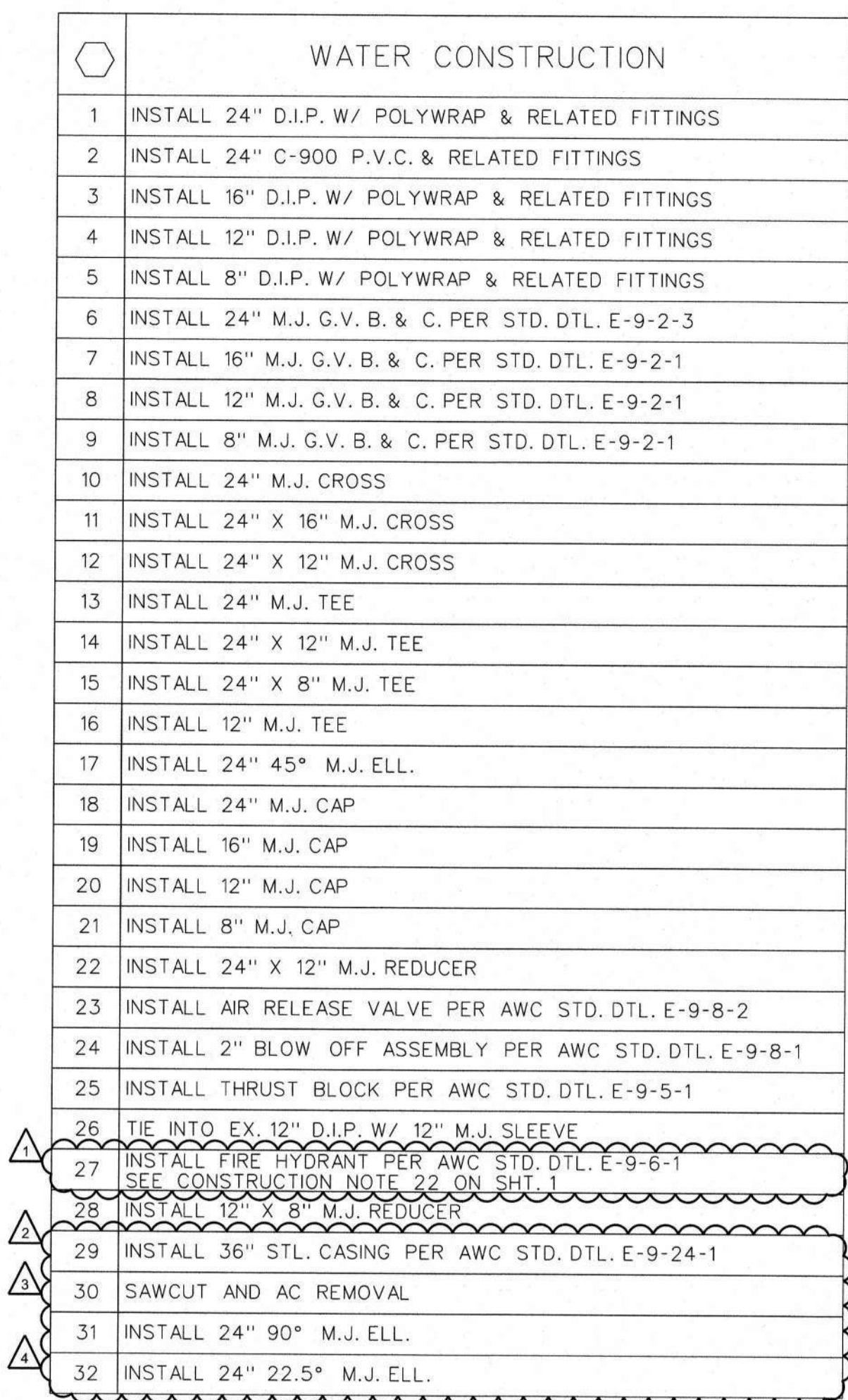
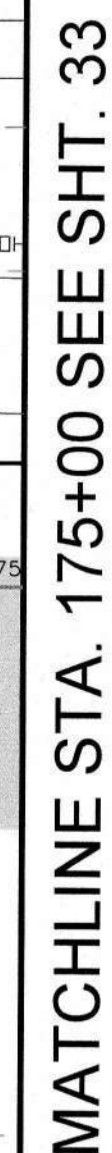
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

CONSTRUCTION PLAN/PROFILE



PV-0260

SHEET 31 OF 42



LEGEND

⊙	—	EX. UTILITY POLES
Ⓜ	—	EX. WATER METER BOX
⊕	—	EX. FIRE HYDRANT
●	—	NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
⌒	—	EX. WATER VALVE
⊗	—	EX. SEWER MANHOLE
⊙	—	EX. STORM DRAIN MANHOLE
—————		STREET CENTERLINE/MONUMENT LINE
——— — — —		RIGHT-OF-WAY LINE
————— — — —		PROPERTY LINE
—————		NEW WATER LINE
— W —	W —	EX. WATER LINE
— SW —	SW —	EX. SEWER LINE
————— SD —		EX. STORM DRAIN
————— IRR —		EX. IRRIGATION LINE
————— DHE —		EX. OVERHEAD ELECTRIC
————— UGT —		EX. UNDERGROUND TELECOMM
————— GAS —		EX. UNDERGROUND GAS
————— X —		EX. FENCE
—————		EX. EASEMENT
—————		EX. ASPHALT
XXXXXXXXXXXXXXXXXXXX		SAWCUT & AC REMOVAL

FOR BIDDING PURPOSES ONLY

Jan 21, 2026

Engineering Department
Arizona Water Company

VISIONS:

- ▲₁ REVISED BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
- ▲₂ REVISED BY BWP ON 8/14/23 PER HIDD COMMENTS.
- ▲₃ REVISED BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
- ▲₄ REVISED BY BWP ON 1/8/26 PER HIDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality

Standard Arizona 811 as listed here will
 reaching approximately 100 feet depth according
 to the Arizona Department of Environmental Quality

Call 811 or visit arizona811.com

W. A. No. 1	3-6653	P.E. No. 1
SYSTEM		
PINAL VALLEY (CG)		
LEGAL DESC.:	SEC. 21, 22, 23, R. 6 E. E. 1/2 SEC. 10, 11, 12, 13, R. 7 E.	
TAX DIST.:	S.B. No. 1	
DATE:	0404, 0408, 0437, 0438	SCALE:
DRAWN BY:	12/19/2025	AS SHOWN
RWP	REVIEW BY:	CHECKED BY:
		M.

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-8880

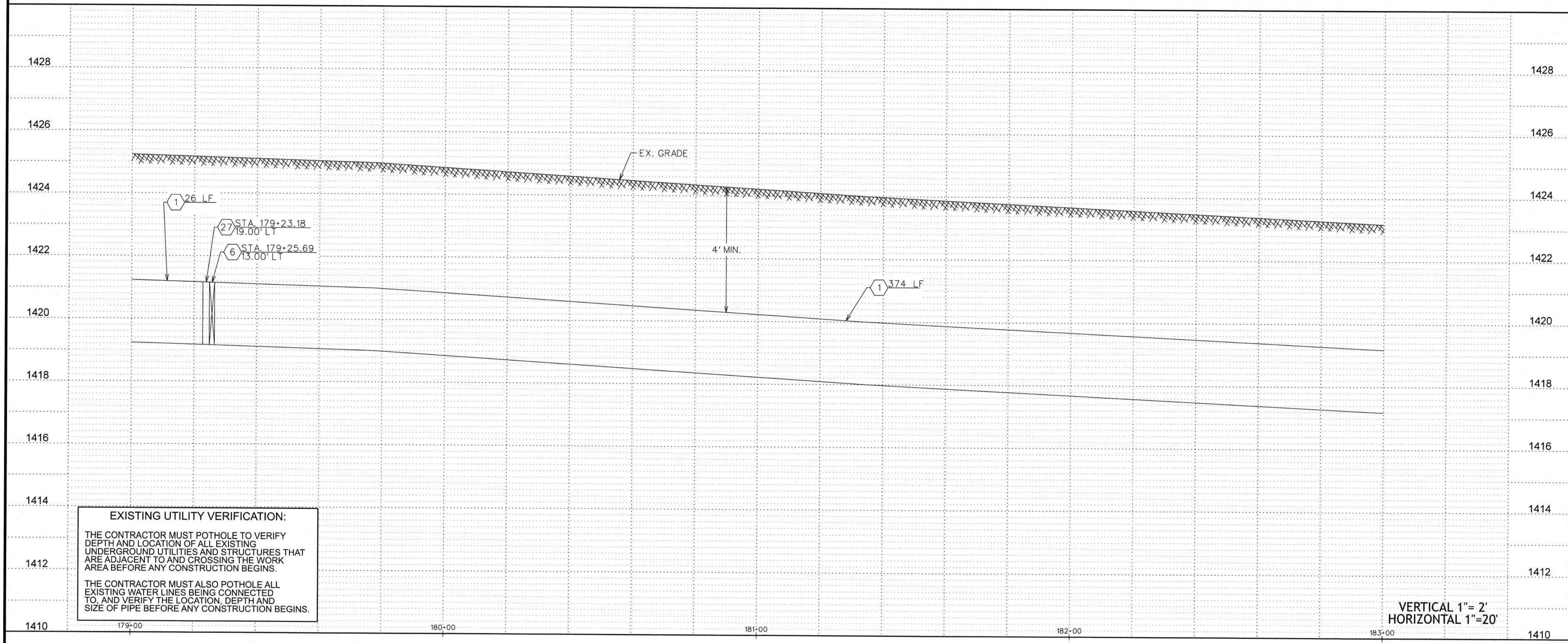
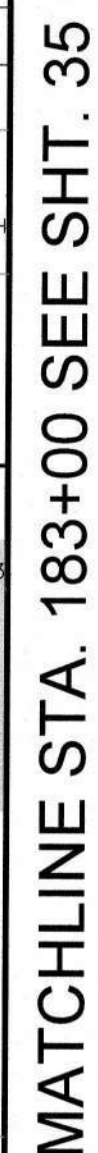
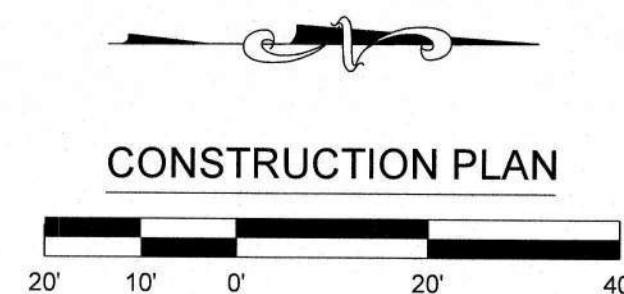


CONSTRUCTED TO: 900 L.P.D. POT 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY,
COTTONWOOD LANE, AND OVERFELD ROAD IN CASA GRANDE, AZ.

PROJECT DESIG:
PROJECT SHEET DESIG:

CONSTRUCTION PLAN/PROFILE

DWG. No.:
PV-0260
SHEET 32 OF 42



	WATER CONSTRUCTION
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
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20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28	SEE CONSTRUCTION NOTE 22 ON SHT. 1
29	INSTALL 12" X 8" M.J. REDUCER
30	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
31	SAWCUT AND AC REMOVAL
32	INSTALL 24" 90° M.J. ELL.
33	INSTALL 24" 22.5° M.J. ELL.

LEGEND

⊕	—	EX. UTILITY POLES
M	—	EX. WATER METER BOX
⊕	—	EX. FIRE HYDRANT
●	—	NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
⌂	—	EX. WATER VALVE
S	—	EX. SEWER MANHOLE
ST	—	EX. STORM DRAIN MANHOLE
		STREET CENTERLINE/MONUMENT LINE
		RIGHT-OF-WAY LINE
		PROPERTY LINE
		NEW WATER LINE
W	— W —	EX. WATER LINE
SW	— SW —	EX. SEWER LINE
SD	— SD —	EX. STORM DRAIN
IRR	— IRR —	EX. IRRIGATION LINE
DHE	— DHE —	EX. OVERHEAD ELECTRIC
UGT	— UGT —	EX. UNDERGROUND TELECOMM
GAS	— GAS —	EX. UNDERGROUND GAS
X	— X —	EX. FENCE
		EX. EASEMENT
<div style="width: 100px; height: 15px; background-color: #cccccc; border: 1px solid black;"></div>		EX. ASPHALT
<div style="width: 100px; height: 20px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black;"></div>		SAWCUT & AC REMOVAL

FOR BIDDING PURPOSES ONLY

Jan 21, 2026


Engineering Department
Arizona Water Company

REVISIONS:

1	REVISED BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
2	REVISED BY BWP ON 8/14/25 PER HIDD COMMENTS.
3	REVISED BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
4	REVISED BY BWP ON 1/8/26 PER HIDD COMMENTS.

W.A. No.: 3-6653 P.E. No.:		SYSTEM:	
PINAL VALLEY (CG)		LEGAL DESIG: SEC. 24, 0' E 6 S, 6' E 6 S, R 7 E E 1/2 SEC. 14 N 1/2 SEC. 10 P 1, 6 S, R 7 E	
FAX DIST:		SEE NO.:	
DATE: 04/04, 04/08, 04/37, 04/38	SCALE:		
12/19/2025	AS SHOWN		
DRAWN BY:	REVIEWED BY:	CHECKED BY:	
BWP	DTG	MC	

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality



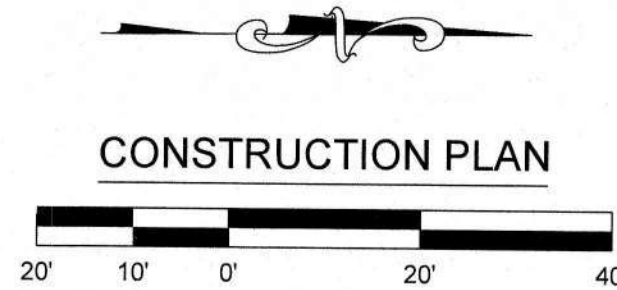
Standard Arizona DQE file based upon the following page numbers:
 sheet 0019 on sheets 00000019 to 00000019

ARIZONA WATER COMPANY	
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006 PHOENIX, ARIZONA 85038-9006 (602) 240-5880	
PROJECT DESC.: CONSTRUCT 15,900 LF OF 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY, COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ.	
PROJECT SHEET DESC.: CONSTRUCTION PLAN/PROFILE	

Registered Professional Engineer (Civil)
 CERTIFICATE NO.
 70873
 AMY
 WALTHERSON
 Date Signed 1/13/26
 ARIZONA, U.S.A.
 Amy Waltherson
 Expires 3-31-2026

DWG. No.:
PV-0260
SHEET 34 OF 42

MATCHLINE STA. 183+00 SEE SHT. 34



MATCHLINE STA. 187+00 SEE SHT. 36

APN
401-08-007A

APN
401-09-007A

APN
401-08-004K

15' COMMUNICATIONS
EASEMENT
DKT. 1840, PG. 20 &
DKT. 1841, PG. 871

PROPOSED 33'
AWC EASEMENT

33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

57' PUBLIC
HIGHWAY EASEMENT
DKT. 566, PG. 349

107' HIDD/USBR IRR.
ROW PER TRACT
NO. H-L9-15

12' HIDD/USBR IRR.
ROW PER TRACT
ONE OF TRACT
NO. H-L9-16

HIDD LATERAL L9N-IN

1428

1426

1424

1422

1420

1418

1416

1414

1412

1410

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EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POT-HOLE TO VERIFY
DEPTH AND LOCATION OF ALL EXISTING
UNDERGROUND UTILITIES AND STRUCTURES THAT
ARE ADJACENT TO AND CROSSING THE WORK
AREA BEFORE ANY CONSTRUCTION BEGINS.

THE CONTRACTOR MUST ALSO POT-HOLE ALL
EXISTING WATER LINES BEING CONNECTED
TO, AND VERIFY THE LOCATION, DEPTH AND
SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

VERTICAL 1"= 2'
HORIZONTAL 1"=20'

WATER CONSTRUCTION

- 1 INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 2 INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
- 3 INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 4 INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 5 INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
- 6 INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
- 7 INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 8 INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 9 INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
- 10 INSTALL 24" M.J. CROSS
- 11 INSTALL 24" X 16" M.J. CROSS
- 12 INSTALL 24" X 12" M.J. CROSS
- 13 INSTALL 24" M.J. TEE
- 14 INSTALL 24" X 12" M.J. TEE
- 15 INSTALL 24" X 8" M.J. TEE
- 16 INSTALL 12" M.J. TEE
- 17 INSTALL 24" 45° M.J. ELL.
- 18 INSTALL 24" M.J. CAP
- 19 INSTALL 16" M.J. CAP
- 20 INSTALL 12" M.J. CAP
- 21 INSTALL 8" M.J. CAP
- 22 INSTALL 24" X 12" M.J. REDUCER
- 23 INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
- 24 INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
- 25 INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
- 26 TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
- 27 INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
SEE CONSTRUCTION NOTE 22 ON SHT. 1
- 28 INSTALL 12" X 8" M.J. REDUCER
- 29 INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
- 30 SAWCUT AND AC REMOVAL
- 31 INSTALL 24" 90° M.J. ELL.
- 32 INSTALL 24" 22.5° M.J. ELL.

LEGEND

- ⊙ — EX. UTILITY POLES
- Ⓜ — EX. WATER METER BOX
- ⊕ — EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE
(ARROW INDICATES OPERATING NUT)
- ⊕ — EX. WATER VALVE
- ⊕ — EX. SEWER MANHOLE
- ⊕ — EX. STORM DRAIN MANHOLE

— — — — — STREET CENTERLINE/MONUMENT LINE

— — — — — RIGHT-OF-WAY LINE

— — — — — PROPERTY LINE

— — — — — NEW WATER LINE

— W — W — EX. WATER LINE

— SW — SW — EX. SEWER LINE

— SD — SD — EX. STORM DRAIN

— IRR — IRR — EX. IRRIGATION LINE

— DHE — DHE — EX. OVERHEAD ELECTRIC

— UGT — UGT — EX. UNDERGROUND TELECOMM

— GAS — GAS — EX. UNDERGROUND GAS

— X — X — EX. FENCE

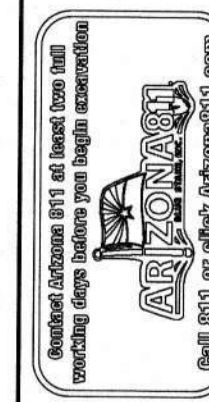
— — — — — EX. EASEMENT

— — — — — EX. ASPHALT

△ SAWCUT & AC REMOVAL

- REVISIONS:
- 1 REVISED BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
 - 2 REVISED BY BWP ON 8/14/25 PER HCD COMMENTS.
 - 3 REVISED BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
 - 4 REVISED BY BWP ON 10/26 PER HCD COMMENTS.

The installation shown is to be installed
in accordance with the Arizona Water
Company standard specifications for
water service lines, and in accordance
with the Arizona Department of
Environmental Quality



W.A. No.: 3-6653	PEL No.:
SYSTEM: PINAL VALLEY (CG)	SEC. 24, OF T. 6 S., R. 7 E.
LEGAL DESC.: E 1/2 SEC. 18, N 1/2 SEC. 19, OF T. 6 S., R. 7 E.	SB No.:
TAX DIST.: 0404, 0408, 0437, 0438	SCALE:
DATE: 12/19/2025	AS SHOWN
DRAWN BY: BWP	CHECKED BY: MC
REVIEWED BY: DTG	

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

PROJECT DESC.: CONSTRUCT 15,000 L.P. OF 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY,
COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ.

PROJECT SHEET DESC.



DWG. No.:

PV-0260

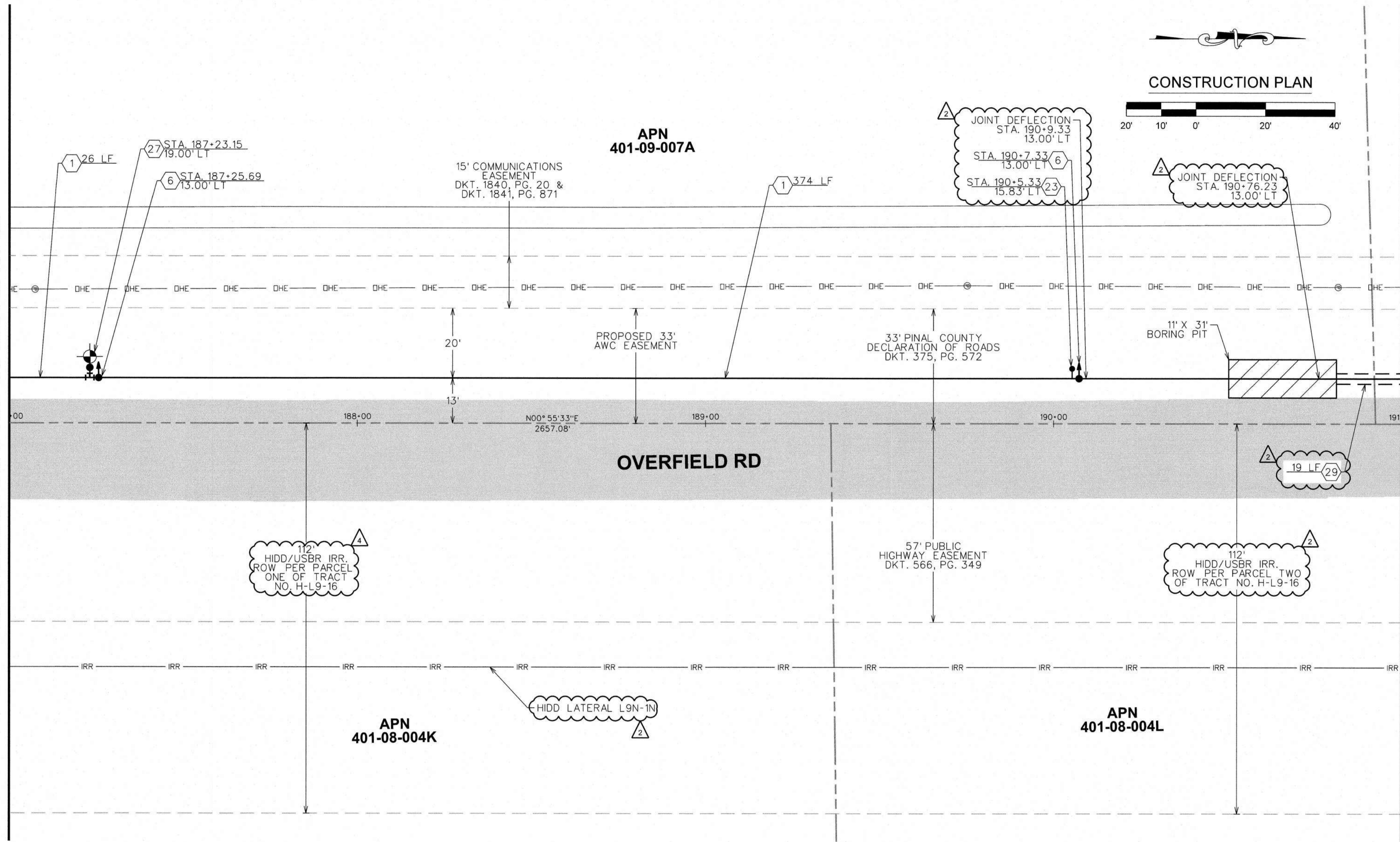
SHEET 35 OF 42

FOR BIDDING PURPOSES ONLY

Jan 21, 2026

Engineering Department
Arizona Water Company

MATCHLINE STA. 187+00 SEE SHT. 35



MATCHLINE STA. 191+00 SEE SHT. 37

WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28	SEE CONSTRUCTION NOTE 22 ON SHT. 1
29	INSTALL 12" X 8" M.J. REDUCER
30	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
31	SAWCUT AND AC REMOVAL
32	INSTALL 24" 22.5° M.J. ELL.

LEGEND

- EX. UTILITY POLES
- EX. WATER METER BOX
- EX. FIRE HYDRANT
- NEW HORIZONTAL WATER VALVE (ARROW INDICATES OPERATING NUT)
- EX. WATER VALVE
- EX. SEWER MANHOLE
- EX. STORM DRAIN MANHOLE
- STREET CENTERLINE/MONUMENT LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- NEW WATER LINE
- EX. WATER LINE
- EX. SEWER LINE
- EX. STORM DRAIN
- EX. IRRIGATION LINE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOMM
- EX. UNDERGROUND GAS
- EX. FENCE
- EX. EASEMENT
- EX. ASPHALT
- SAWCUT & AC REMOVAL

EXISTING UTILITY VERIFICATION:

THE CONTRACTOR MUST POTHOLE TO VERIFY DEPTH AND LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES THAT ARE ADJACENT TO AND CROSSING THE WORK AREA BEFORE ANY CONSTRUCTION BEGINS.

THE CONTRACTOR MUST ALSO POTHOLE ALL EXISTING WATER LINES BEING CONNECTED TO, AND VERIFY THE LOCATION, DEPTH AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.

- REVISIONS:
- REVISED BY BMP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
 - REVISED BY BMP ON 8/14/25 PER HIDD COMMENTS.
 - REVISED BY BMP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
 - REVISED BY BMP ON 10/28 PER HIDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality.

ARIZONA WATER COMPANY

Standard Reference B17 at least been installed according to the Arizona Water Company Standard Specifications.

W.A. No.: 3-6653
SYSTEM: PINAL VALLEY (CG)
LEGAL DESC.: SEC. 24 OF T. 6 S. R. 7 E. E 1/2 SEC. 18, 1/2 SEC. 19 OF T. 6 S. R. 7 E.
TAX DIST.: 0404, 0408, 0437, 0438
DATE: 12/19/2025
SCALE: AS SHOWN
DRAWN BY: BWP
CHECKED BY: ML

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-8860

PROJECT DESC: CONSTRUCT 24" D.I.P. WATER MAIN ALONG MISSION PARKWAY, COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ.
PROJECT SHEET DESC: CONSTRUCTION PLAN/PROFILE

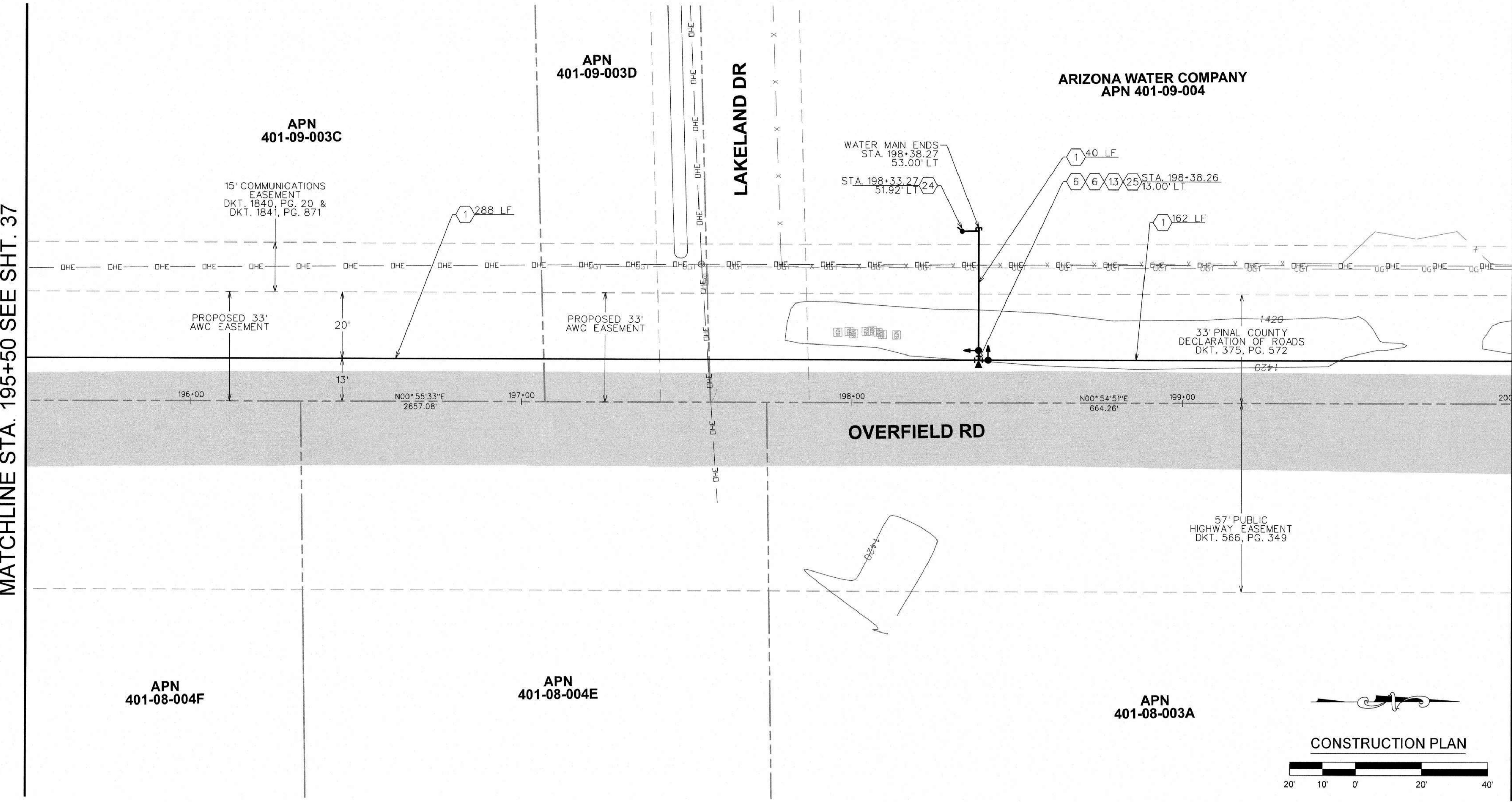
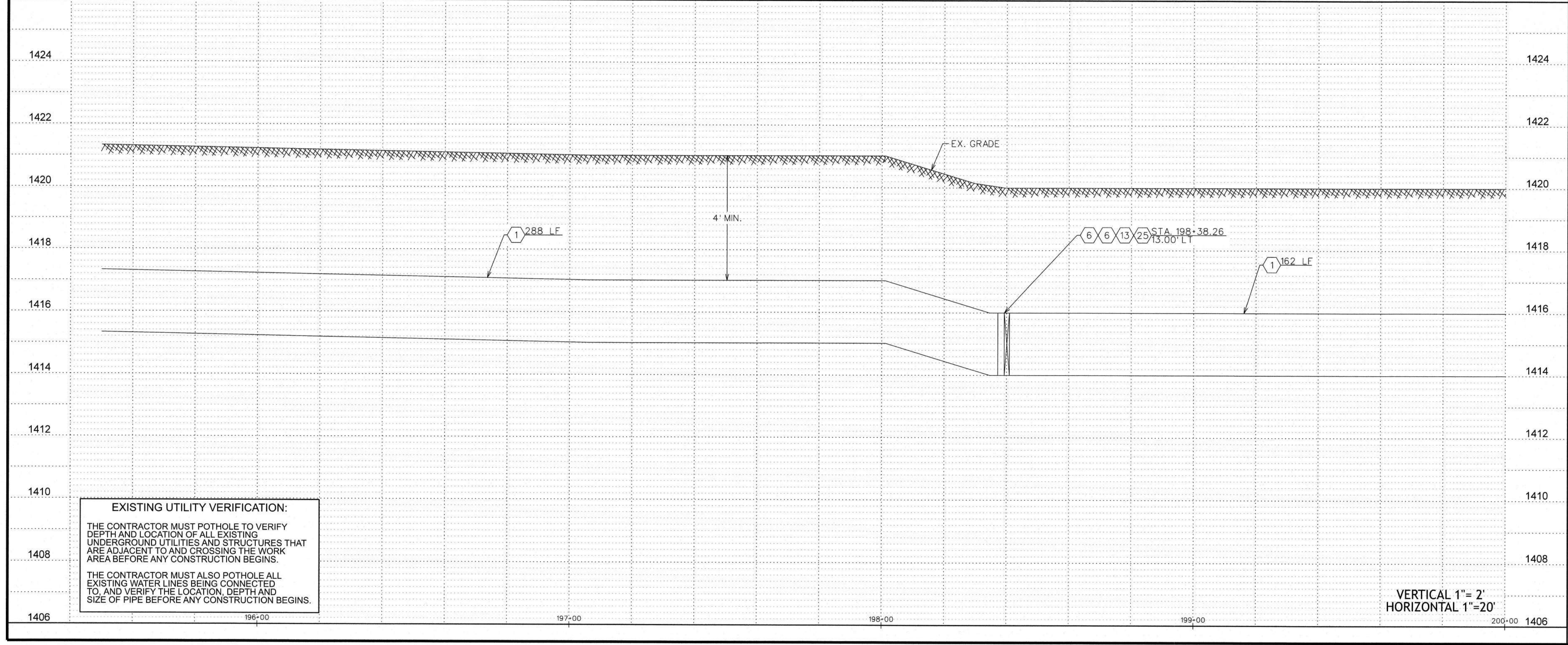
Professional Engineer Seal
70873
AMY WALTHERSON
Exp. 3-31-2026

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

DWG. No.: PV-0260
SHEET 36 OF 42

MATCHLINE STA. 195+50 SEE SHT. 37

MATCHLINE STA. 200+00 SEE SHT. 39



WATER CONSTRUCTION	
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1
28	SEE CONSTRUCTION NOTE 22 ON SHT. 1
29	INSTALL 12" X 8" M.J. REDUCER
30	SAWCUT AND AC REMOVAL
31	INSTALL 24" 90° M.J. ELL.
32	INSTALL 24" 22.5° M.J. ELL.

LEGEND

EX. UTILITY POLES

EX. WATER METER BOX

EX. FIRE HYDRANT

NEW HORIZONTAL WATER VALVE
(ARROW INDICATES OPERATING NUT)

EX. WATER VALVE

EX. SEWER MANHOLE

EX. STORM DRAIN MANHOLE

STREET CENTERLINE/MONUMENT LINE

RIGHT-OF-WAY LINE

PROPERTY LINE

NEW WATER LINE

EX. WATER LINE

EX. SEWER LINE

EX. STORM DRAIN

EX. IRRIGATION LINE

EX. OVERHEAD ELECTRIC

EX. UNDERGROUND TELECOMM

EX. UNDERGROUND GAS

EX. FENCE

EX. EASEMENT

EX. ASPHALT

SAWCUT & AC REMOVAL

REVISIONS

REVISED BY BMP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.

REVISED BY BMP ON 8/14/25 PER HIDD COMMENTS.

REVISED BY BMP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.

REVISED BY BMP ON 10/26 PER HIDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality

ARIZONA WATER COMPANY

Standard Specifications for Water Construction

Revised 8/15/24

W.A. No.: 3-6653

SYSTEM: PINAL VALLEY (CG)

LEGAL DESC.: SEC. 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

ARIZONA WATER COMPANY

3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006

PHOENIX, ARIZONA 85038-9006

(602) 240-6860

PROJECT RESC:

CONSTRUCTION OF 24" ANCHORED WATER MAIN ALONG MISSION PARKWAY, COTTONWOOD LANE AND OVERFIELD ROAD IN CASA GRANDE, AZ.

PROJECT SHEET DESC:

CONSTRUCTION PLAN/PROFILE

70873

AMY

WALTHERSON

Arizona U.S.A.

Expires 3-31-2026

DWG. No.: PV-0260

SHEET 38 OF 42

ARIZONA WATER COMPANY
APN 401-09-004

15' COMMUNICATIONS EASEMENT
DKT. 1840, PG. 20, &
DKT. 1841, PG. 871

33' PINAL COUNTY
DECLARATION OF ROADS
DKT. 375, PG. 572

1420

1420

0+00 201+00 202+00 203+00 204+00

N00°54'51"E
664.26'

20'

13'

1421 LF

STA. 204+19.77
18.00' LT

24


OVERFIELD RD

USE D.I.P. W/ JOINT RESTRAINT
FROM B.O. FOR A MIN. 340 LF

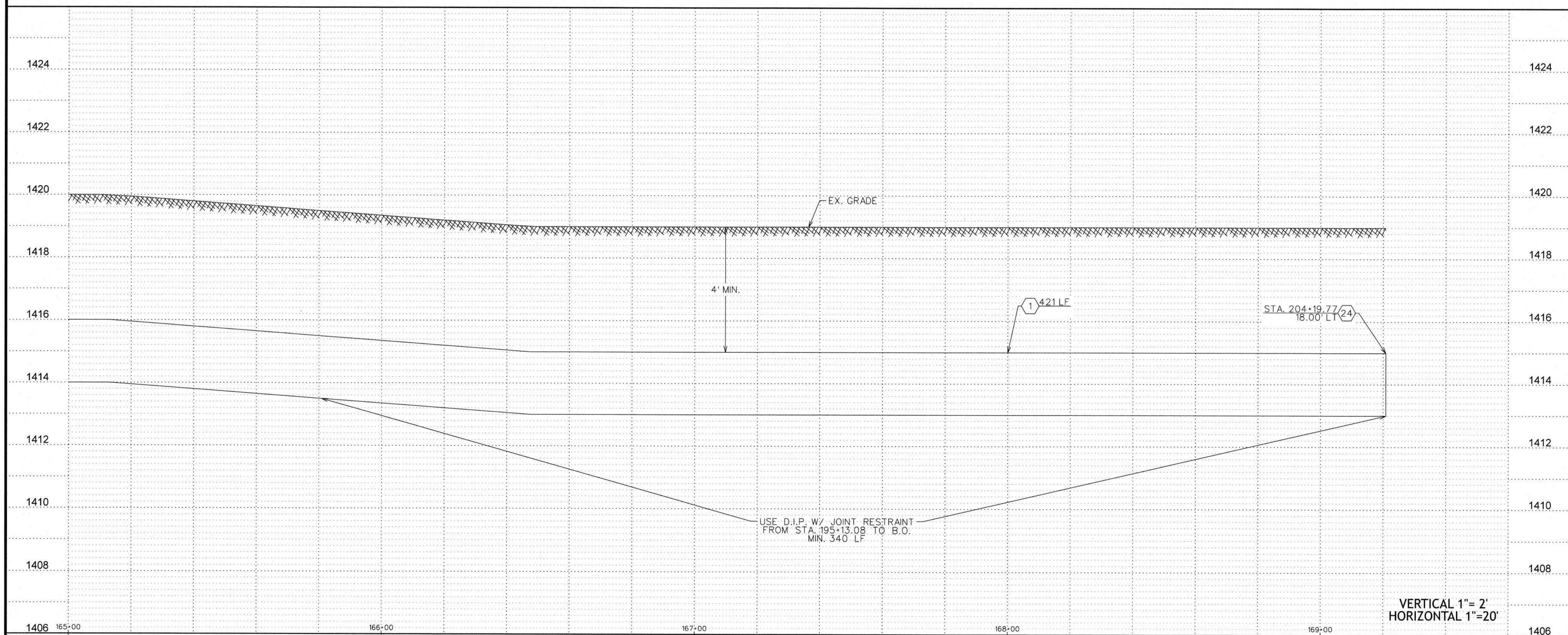
57' PUBLIC
HIGHWAY EASEMENT
DKT. 566, PG. 349

WATER MAIN ENDS
STA. 204+20.85
13.00' LT

CONSTRUCTION PLAN



20' 10' 0' 20' 40'



	WATER CONSTRUCTION
1	INSTALL 24" D.I.P. W/ POLYWRAP & RELATED FITTINGS
2	INSTALL 24" C-900 P.V.C. & RELATED FITTINGS
3	INSTALL 16" D.I.P. W/ POLYWRAP & RELATED FITTINGS
4	INSTALL 12" D.I.P. W/ POLYWRAP & RELATED FITTINGS
5	INSTALL 8" D.I.P. W/ POLYWRAP & RELATED FITTINGS
6	INSTALL 24" M.J. G.V. B. & C. PER STD. DTL. E-9-2-3
7	INSTALL 16" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
8	INSTALL 12" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
9	INSTALL 8" M.J. G.V. B. & C. PER STD. DTL. E-9-2-1
10	INSTALL 24" M.J. CROSS
11	INSTALL 24" X 16" M.J. CROSS
12	INSTALL 24" X 12" M.J. CROSS
13	INSTALL 24" M.J. TEE
14	INSTALL 24" X 12" M.J. TEE
15	INSTALL 24" X 8" M.J. TEE
16	INSTALL 12" M.J. TEE
17	INSTALL 24" 45° M.J. ELL.
18	INSTALL 24" M.J. CAP
19	INSTALL 16" M.J. CAP
20	INSTALL 12" M.J. CAP
21	INSTALL 8" M.J. CAP
22	INSTALL 24" X 12" M.J. REDUCER
23	INSTALL AIR RELEASE VALVE PER AWC STD. DTL. E-9-8-2
24	INSTALL 2" BLOW OFF ASSEMBLY PER AWC STD. DTL. E-9-8-1
25	INSTALL THRUST BLOCK PER AWC STD. DTL. E-9-5-1
26	TIE INTO EX. 12" D.I.P. W/ 12" M.J. SLEEVE
27	INSTALL FIRE HYDRANT PER AWC STD. DTL. E-9-6-1 SEE CONSTRUCTION NOTE 22 ON SHT. 1
28	INSTALL 12" X 8" M.J. REDUCER
29	INSTALL 36" STL. CASING PER AWC STD. DTL. E-9-24-1
30	SAWCUT AND AC REMOVAL
31	INSTALL 24" 90° M.J. ELL.
32	INSTALL 24" 22.5° M.J. ELL.

- ⊙ — EX. UTILITY POLES
- Ⓜ — EX. WATER METER BOX
- Ⓢ — EX. FIRE HYDRANT
- ⬮ — NEW HORIZONTAL WATER VALVE
(ARROW INDICATES OPERATING NUT)
- ⌘ — EX. WATER VALVE
- Ⓢ — EX. SEWER MANHOLE
- Ⓢ — EX. STORM DRAIN MANHOLE

- STREET CENTERLINE/MONUMENT LINE
 RIGHT-OF-WAY LINE
 PROPERTY LINE
 NEW WATER LINE
 EX. WATER LINE
 EX. SEWER LINE
 EX. STORM DRAIN
 EX. IRRIGATION LINE
 EX. OVERHEAD ELECTRIC
 EX. UNDERGROUND TELECOMM
 EX. UNDERGROUND GAS
 EX. FENCE
 EX. EASEMENT
 EX. ASPHALT
 SAWCUT & AC REMOVAL

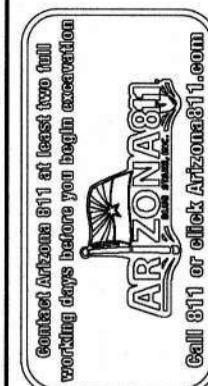
FOR BIDDING PURPOSES ONLY

Jan 21, 2026

Engineering Department
Arizona Water Conservancy

1. REVISED BY BWP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
2. REVISED BY BWP ON 8/14/25 PER HIDD COMMENTS.
3. REVISED BY BWP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
4. REVISED BY BWP ON 1/18/26 PER HIDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality.



W.A. No. 3	3-6653	P.E. No. 2
SYSTEM		
PINAL VALLEY (CG)		
LEGAL DESC.:		
SEC 24, T12S, R7E E12 SEC 19, N12 SEC 18 OF T12S, R7E		
SIB No.:		
SCALE:		
TAX DIST.:	0404, 0408, 0437, 0438	
DATE:	12/19/2025	
DRAWN BY:		AS SHOWN
BWD	REVIEWED BY:	CHECKED BY:
	<i>DTT</i>	<i>mf</i>

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

2
CONSTRUCT 15,900 LF OF 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY,
COTTESMAN LANE AND OVERFIELD ROAD IN S.W.A. GRABES AT

CONSTRUCTION PLAN/PROFILE



DWG. No.:
PV-0260
SHEET 39 OF 42

GENERAL NOTES, CONSTRUCTION INSPECTION, AND TESTING

1. All public Improvement Construction within the public right-of-way and onsite shall be conducted in accordance with, and conform to, the latest edition of the uniform standard specifications for Public Works Construction and Uniform Standard Details for Public Works Construction, Both as published by the Maricopa Association of Governments (M.A.G.). OR the City of Casa Grande Supplement to M.A.G. Standard Details where applicable. In cases where ADOT Specification or Standard Details are referenced in these notes, the contractor shall assume ADOT Specifications prevail.

2. Inspection of work per M.A.G. 105.10: The Engineer shall be permitted to inspect all materials, and each part or detail of the work at any time for the purpose of expediting and facilitating the progress of work. He shall be furnished with such information and assistance by the contractor, as is required to make a complete and detailed inspection. The City Engineer requires that the actual test result data sheet accompany all compaction test results submitted to the city's inspector. Pass/Fail statements are not acceptable without the attached data sheet. Failure to submit the test result data sheets will result in an incomplete submittal and the test will be rejected.

3. In the event of conflict between M.A.G. standard specifications and standard details and these plans, these plans shall prevail.

4. The office of the City Engineer shall be notified at least forty-eight (48) hours prior to the commencement of any work within the city right-of-way. TELEPHONE: 520-421-8625.

5. Contractor is to notify all public utilities at least two (2) working days prior to construction, for field locations of their respective facilities, by contacting the following: BLUE STAKE NUMBER: 1-800-782-5348.

6. Contractor shall coordinate and make arrangements for relocation of any utilities conflicting with the proposed construction of these plans, with the appropriate utility.

7. Removal and replacement of all trees, shrubs, vegetation, miscellaneous structures, debris, rubble and other deleterious materials within the limits of construction shall be at the contractor's expense.

8. All concrete sidewalks, driveways, aprons, cross-pans, valley gutter, curbs and gutters landscaping and irrigation that may be damaged during the course of constructions shall be removed and replaced by the contractor at the contractor's expense.

9. Shoring is to be installed or a trench box is to be used, in all trenches exceeding five (5') feet in depth. A registered civil engineer or soils engineer shall certify shoring installation plans, details, and specifications. Shoring must conform to OSHA 29 CFR, Part 1926, and Subpart D.

10. Compaction testing is required and must be performed in the presence of a representative of the City Engineer when requested.

11. Subgrade and backfill requirements shall be in accordance with M.A.G. Specification Section 301, unless otherwise modified by these standard notes.

12. A minimum of four (4") inches minimum of aggregate base course material, compacted to 95% shall be placed under all sidewalks, alleyway and driveway entrances.

13. ABC shall be placed under curb and gutter shall match pavement structural thickness of roadway at minimum. Compact to 95% per M.A.G. Section 301.3.

14. Grading of aggregate bases and aggregate sub-base shall be as follows: Aggregate materials shall have water added to them and shall be mixed and processed to produce a uniform blend of material before placement. After processing, the material shall be placed and spread on the prepared sub-grade and shall be placed in a uniform layer or layers not exceeding six (6") inches in compacted depth, unless otherwise approved in writing by the City Engineer. Each layer of aggregate base shall be compacted to a density of not less than 100% of the maximum density. The finished surface of the sub-grade shall not vary from grades established by the City Engineer by more than 0.04' of a foot above or below specified grade.

15. Compaction testing for sub-grade will be done after the sub-grade has been string lined and is within tolerance and accepted by the City Engineer. The City Engineer or his representative will direct the number and location of density tests. All sub-grades shall have a blue-top elevation set to the finished grade and left and right edges of pavement, and centerline of roadway.

16. One (1) sand cone test shall be required for every ten (10) nuclear density tests performed, or when requested by the City Engineer or his representative. The City Engineer or Engineer's representative shall determine the locations of these sand cone tests.

17. All materials, including but not limited to aggregate base course, borrow material and native material, will be accepted in place only. Testing required for acceptance will include a sieve analysis and plasticity index, (P.I.). Determination of maximum theoretical density will be in accordance with ASTM D698. Only a four-point proctor test will be accepted.

18. The base course shall not be placed on sub-grade until the City Engineer (or his/her representative) has accepted the sub-grade. All materials will be accepted in place only.

19. Compaction densities: M.A.G. type I Backfill material (Table 601-2) is modified to include areas within right-of-way, and easements for all trenches including sewer, water, electric, gas, telephone, and storm drains, moisture spec. 2.0 percent below optimum moisture compact to 95% of maximum theoretical density. All materials outside the moisture spec-limit shall be considered unsuitable, subject to removal and material shall be uniform.

20. The location of all sewer stub-outs shall be stamped in conformance with M.A.G. Standard Detail 440-4.

21. All curb, gutter and sidewalk expansion joint filler will be 1/2" bituminous pre-molded strips. All expansion joint spacing shall not exceed a maximum of (50') feet or as directed by the City Engineer. Concrete curing compound material shall be a white pigment membrane used on all concrete structures including curb & gutter, sidewalk, headwall, catch basins and sidewalk ramps.

22. Paving shall not commence until aggregate base course compaction and gradation tests are completed and the City Engineer accepts the results.

23. Trenching in public right-of-way shall be constructed in conformance with M.A.G. Standard Detail 200-1, unless another trenching method such as micro-trenching has been approved by the City Engineer.

24. USPS Cluster Mail Box locations must be pre-determined and noted on the Civil plans for grading and paving. Add cluster boxes to Legend and i Construction Notes. Cluster Box locations should be shown on the "Overall Sewer/Water/Hydrant/Streetlight Plan."

WATER MAIN NOTES

1. All proposed public and/or private utilities shall be installed on the opposite side of right-of-way from the proposed water mains whenever possible.

2. WATER DISTRIBUTION DESIGN REPORT:

BY: _____ AMY WALTHERSON _____

DATED: _____ 7/14/2025 _____

JOB NUMBER: * _____ 3-6653 _____

3. All materials that come into contact with drinking water shall meet NSF standard 60 and 61.

4. All water mains less than twelve (12") inches in diameter are to be installed at a minimum top of pipe depth of thirty six (36") inches below finished grade. Water mains twelve (12") inches in diameter, or larger, shall be installed at a minimum top of pipe depth of forty eight (48") inches below finished grade.

5. All waterlines shall be pressure and leakage tested in accordance with M.A.G. Specification Section 611.

6. All new fire hydrants shall have four (4") inch N.S.T. steamer connections.

7. No obstructions, (i.e.: trees, shrubs, utility pedestals, streetlights, transformers, J-boxes, switch cabinets) shall be placed within five (5') feet in front of or to the side of any fire hydrant.

8. All onsite water mains shall be within the public right-of-way unless otherwise noted on plans. All construction shall be in accordance with the Arizona Water Company Standard Details and Specifications and ADEQ/ADWR current standards. However, all trench backfill compaction within the public right-of-way and in all public easements shall be per City of Casa Grande Detail and Compaction Specifications.

9. All water mains must be disinfected per AAC Title 18 and Arizona Water Company Standards.

10. There shall be no septic systems within one hundred (100') feet of the proposed water main extension.

11. Water Plan As-Built: As-built water plans shall be prepared by the design engineer and shall include but are not limited to, all hydrant base elevations, hydrant locations, valve box locations, meter box locations, landscape meter locations, and any deviations from approved plans.

12. Pressure release valves are required at all high places within water line.

PAVING AND STREET NOTES

1. All grading, excavation, paving, trenching, pipe bedding and backfill shall comply with the recommendations set forth in the SOILS (Geotechnical) report for this project and the referenced required specifications and details. SOILS report and pavement design were prepared:

BY: _____

JOB NO. _____

DATED: _____

2. The contractor shall verify the locations, elevations and horizontal controls of all existing utilities at point of tie-in prior to commencing any new construction. Should any location, elevation or control differ from that shown on these plans, the contractor shall contact the owner's agent.

3. The contractor shall give 48 hours notice to the City Engineer prior to any construction activity within the right-of-way.

4. The City Engineer must approve all plan revisions in writing prior to construction of any changes to approved plans.

5. Upon commencement of work, traffic control devices shall be posted and maintained by the contractor until such time as work is completed.

6. Removing and relocation of all mailboxes, fences, signs, gates, posts-pipes, etc., within the right-of-way and construction limits shall be per plans.

7. 25 MPH speed limit signs shall be located at all entrances into the development. 35 MPH signs for collectors shall be located per the plans.

8. Concrete Collars, on all utility and survey monument frame adjustments, are to be installed flush with the proposed or existing pavement.

9. Street cuts on asphalt pavement: Cut existing pavement per M.A.G. detail 200 type (T) top; Tack edges. (Using A19mm per. MAG Sect. 710 Asphaltic concrete hot mix.) Asphalt concrete shall be tested for compaction, to 95%. The contractor, at his expense, will have a private lab core sample and run a Marshall for compaction test, for acceptance on all street cuts. All replacement pavements shall match existing, unless authorized in writing by the City Engineer.

10. All construction & test methods shall be in conformance with the city of Casa Grande and Maricopa Association of Governments (M.A.G.) uniform standards specifications and details for public works construction, latest edition.

11. Asphaltic concrete for shall conform to M.A.G. USSD section 710 mix specifications. The minimum pavement section for Arterials and Major Collectors shall be a 2" (12.5 mm) AC surface course with a 3" (19 mm) AC base course with a minimum 10" aggregate base course. Alternate pavement sections based on a geotechnical report may be considered, but must contain at least the 2" + 3" AC pavement noted above in the top section of the pavement structure and an equivalent load capacity.

12. All concrete shall comply with M.A.G. Section 725, Class-A 3000-PSI compressive strength at 28 days, unless otherwise specified. Contractor shall supply mix design to the City Engineer for approval prior to placement. Contractor shall supply a copy of each batch ticket to the City Engineer or his representative.

13. A copy of the City approved plans must be kept on-site at all times, during the course of construction.

14. All newly constructed pavements shall receive an application of sealant (fog-seal), approved in advance by the City Engineer and prior to acceptance into a warranty period. Hydrant reflectors shall be installed after the application of the sealant.

15. In the event of any dispute between these plans and M.A.G. standard specifications, these approved plans shall prevail.

16. The contractor/owner is responsible for final adjustment of all manholes, valves, clean-outs, water meter boxes, J-boxes, etc., and restoration of construction site to M.A.G. standards, including Right of Way Grading. None of the above shall be located in the sidewalk or curb areas.

17. Engineer's testing of A/C mix prior to placement is required and results are to be delivered to the City Engineer or his representative prior to paving.

18. Rolling patterns required by the geo-technical testing firm shall also be supplied to the Engineers representative.

19. Core testing of newly constructed asphalt concrete surfaces may be required at the discretion of the City Engineer. Core tests are mandatory, along with supporting Marshall test results, for all existing roadways where street cuts are necessary.

20. Protection of valley gutters, cross-pans and aprons during paving operations shall be the responsibility of the contractor and all damaged concrete shall be replaced prior to acceptance.

21. Tack seal shall be required between lifts, all vertical concrete surfaces prior to placement of asphalt. This requirement also applies to vertical asphaltic concrete surfaces and at all joints of new lifts.

22. The surveyor shall perform installation and straddling of monuments. Once stamped, datum shall be part of the as-built plans.

23. Right-of-way grading shall be completed prior to the final walk-through and shall be held one (1") inch below the back of walk. (B.O.W.)

24. Paving As-Built: Paving as-built plans shall be prepared by the design engineer and shall certify that this project was constructed in substantial conformance with the approved plans prior to request for final inspection, certificate of occupancy or release of assurance.

25. Freshly paved finished roadway shall be 1/4" above the lip of the concrete gutter.

26. Sub grade preparation for all sidewalks, curb & gutter shall be scarified and loosened to a depth of 6", and shall be constructed to achieve a uniform moisture by the addition of water, moisture shall be maintained 2.0 percent above optimum moisture prior to placement of concrete, and compacted to 95 percent of maximum density. All materials outside the moisture limit shall be considered subject to removal.

27. Any Pavement adjacent to existing ROW, is subject to review by the City Engineer.

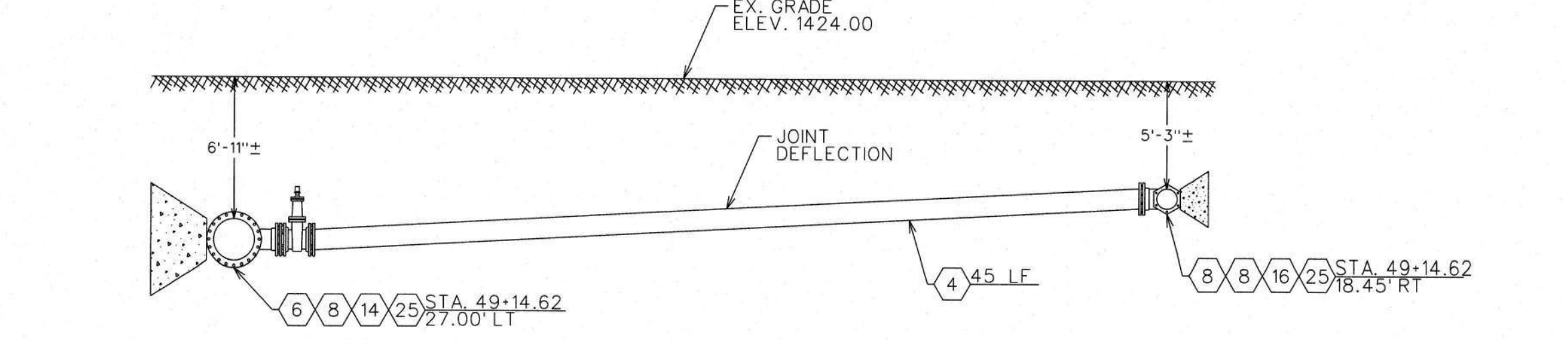
28. Finished grade of compacted, freshly placed asphalt, shall be no more nor less than 1/4 inch above the lip of the gutter.

29. No diesel, or other cleaning solvents, will be applied to the paving hopper, the screed, the auger immediately prior to beginning of the paving operation.

30. All handicap ramps shall be installed with truncated dome detectable warnings in compliance with M.A.G. standard details 231-234. Truncated Domes must be reinforced, pre-cast, set-in-place type product. Surface applied products, pavers or stamped concrete will not be allowed for new installations. Fiberglass material is not acceptable. The color of truncated domes shall be brownish red (terracotta).

31. All Arterial Streets shall have deceleration lanes at cross streets and driveways.

32. Paving Plan As-builts: As-built plans shall include, but not be limited to, the following: Horizontal and vertical control, changes to any grade break locations, Top of Curb (TOC) elevations at each property corner, gutter/flow line elevations, scupper and catch basin inverts, monumentation, cross slopes, valley gutter flow line elevations, hydrant reflectors and any and all changes to the approved plans.



DETAIL 'A'
N.T.S.

FOR BIDDING PURPOSES ONLY
Jan 21, 2026
Engineering Department
Arizona Water Company

REVISIONS:
△ REVISED BY BMP ON 8/15/24 PER CITY OF CASA GRANDE COMMENTS.
△ REVISED BY BMP ON 8/14/25 PER HDD COMMENTS.
△ REVISED BY BMP ON 9/10/25 PER CITY OF CASA GRANDE COMMENTS.
△ REVISED BY BMP ON 1/8/26 PER HDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company Standard Details and Specifications on file with the Arizona Department of Environmental Quality

ARIZONA
CONSTRUCTION DIVISION
1000 N. CENTRAL AVENUE, SUITE 1000
PHOENIX, ARIZONA 85004
TEL: 602.240.6860

W.A. No.: 3-6653	P.E. No.:	SYSTEM: PINAL VALLEY (CG)	LEGAL DESC.: SEC. 24, QFT. 6 S. R. 6 E. E 1/2 SEC. 18, N 1/2 SEC. 19 QFT. 6 S. R. 7 E.	TAX DIST.: 0404, 0408, 0437, 0438	SCALE: 12/19/2025	AS SHOWN	CHECKED BY: <i>MC</i>
						BMP	

ARIZONA WATER COMPANY
3805 N. BLACK CANYON HWY. POST OFFICE BOX 29006
PHOENIX, ARIZONA 85038-9006
(602) 240-6860

PROJECT DESC.: CONSTRUCTION OF 24-INCH D.I.P. WATER MAIN ALONG MISSION PARKWAY, COTTONWOOD LANE, AND OVERFIELD ROAD IN CASA GRANDE, AZ

PROJECT SHEET DESC.: CITY OF CASA GRANDE NOTES

REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO. 70873
AMY WALTHERSON
ARIZONA U.S.A.
Amy Waltherson
Expires 3-31-2028

DWG. No.: PV-0260
SHEET 40 OF 42

E-8-1
CONSTRUCTION SPECIFICATIONS
FOR THE INSTALLATION OF WATER DISTRIBUTION SYSTEMS
DUCTILE IRON

DEFINITIONS

A. Company. The words "Company" or "Arizona Water Company" mean Arizona Water Company, and where applicable, any division of Arizona Water Company, whose principal place of business is located at 3805 North Canyon Highway, Phoenix, Arizona 85015-5351 (Post Office Box 29006, Phoenix, Arizona 85038-9006).

B. Company's Authorized Representative. The words "Company's Authorized Representative" mean any officer of the Company, and any of the Company's Engineers, any Division Manager or Superintendent of the Company and/or such other persons designated in writing as the "Company's Authorized Representative" by the President or any Vice President of the Company.

C. Contractor. The word "Contractor" means either an individual or other entity employed to do the work as shown on the Construction Drawings and as specified herein.

D. Construction Drawings. The words "Construction Drawings" mean plans prepared by or on behalf of Arizona Water Company.

E. Contract. The word "Contract" means the written document titled "Proposal/Contract" when such document has been signed by an officer or other authorized representative of both the Contractor and the Company.

1. GENERAL

All work is to be completed in a safe, workmanlike manner and in accordance with these Construction Specifications; any deviation therefrom must be approved in writing by the Company.

Installations must conform with the requirements of all governmental regulating agencies and the cost of conforming to such regulations must be included in the unit bid prices. Examples of such regulations, without attempting to be inclusive, are:

- Special compaction and paving for street crossing.
- Shoring when required because of the trench depth.
- Closing a trench in those areas where no open trench is allowed overnight.
- Barricading and traffic controls required.

2. LOCATION MARKING

Alignment stakes as required in the opinion of the Company shall be furnished by the Company to the Contractor and shall be set by the Company at agreed upon intervals and offsets. Under normal circumstances these will reference the pipeline location five feet (5') into the right-of-way measured from property pins. Grade stakes will be provided only when the Construction Drawings show a pipeline depth other than covered in these Specifications. It is the responsibility of the Contractor to preserve all survey work.

3. TRENCH EXCAVATION

The trench location is to be determined by the Construction Drawings.

FOR 8-INCH OR SMALLER PIPE: The depth of the trench prior to pipe laying shall be such that the finished pipeline shall have between thirty-six inches (36") and forty-two inches (42") of cover unless otherwise specified on the Construction Drawings.

FOR 12-INCH AND LARGER PIPE: The depth of the trench prior to pipe laying shall be such that the finished pipeline shall have between forty-eight inches (48") and sixty inches (60") of cover unless otherwise specified on the Construction Drawings.

The width of the trench at and below the level at the top of the pipe shall be a minimum of twelve inches (12") plus the outside diameter of the pipe barrel and a maximum of twenty-four inches (24") plus the outside diameter of the pipe barrel.

The bottom of the trench shall be accurately graded to provide a uniform bearing for each length of pipe for the full length of the pipe. If the native material on the trench bottom can be reasonably dug by hand, ballholes shall be dug for the joints so that the joints in no way support the pipe. When native materials such as rock are encountered during trenching that will not provide a uniform support for the pipe, the trench will be over-excavated an additional six inches (6") and suitable bedding material will be placed in the trench.

Bedding material will be placed by hand in four-inch (4") lifts and compacted to ensure uniform compaction and to eliminate any voids under the pipe. When the space between the pipe and trench bottom varies, this must be backfilled and compacted in four-inch (4") lifts to the mid-section of the pipe.

Whenever the trench is over-excavated for whatever reason, the trench bottom will be brought up to the correct depth at the Contractor's expense using either method (a) or (b) as follows:

- A.B.C. material shall be used and compacted to a uniform density of not less than 95% of the maximum density as determined by M.A.G. specifications.
- Native material 100% of which will pass through a one and one-half inch (1-1/2") screen and at least 20% of which will pass through a number-8 screen shall be used and compacted to a uniform density of not less than 85% of the maximum density as determined by AASHTO T-99 method A and T-191.

4. MATERIALS TO BE PROVIDED BY CONTRACTOR

Unless otherwise specified on the Construction Drawings or in the Contract, the Contractor will supply all of the necessary materials which will become a permanent and integral part of the water distribution system, including concrete blocking, anchors, backfill material, paving material and supplies used during the prosecution of the work. All materials provided by the Contractor to construct the water distribution system must be NSF Standard 61 approved. All potable water pipes and fittings shall have NSF-PW seal. Construction materials used in the water system shall be lead free as defined at AAC R28-4-504 and R18-1-101. The Contractor will provide the following materials:

- FIRE HYDRANTS: Mueller Super Centurion 250 Fire Hydrant, meets ANSI/AWWA C502 Standard, Model No. A-423, 5-1/4" main valve opening, three way, 6" Mechanical Joint Shoe, 1-1/2" pentagon operating nut, color - yellow, drain open, open direction - left, 4" or 4'-6" bury depending on application. For pump and hose nozzle information see below.

- One - 4" Pumper Nozzle, NST and Two - 2-1/2" Hose Nozzles, NST, (These locations only: Ajo, Casa Grande, Coolidge and San Manuel.)

- One - 4-1/2" Pumper Nozzle, NST and Two - 2-1/2" Hose Nozzles, NST, (These locations only: Apache Junction, Arizona City, Lakeside, Oracle, Overgaard, Pinewood, Rimrock, Sedona, Sierra Vista, White Tank and Winkelman.)

- One - 4-1/2" Pumper Nozzle, NST and Two - 2-1/2" Hose Nozzles, NPT (Bisbee only.)

- One - 3" Pumper Nozzle GA 6-350 (6 threads per inch, 3.50 pitch diameter) and Two - 2-1/2" Hose Nozzles, NPT (Miami only.)

- One - 3-1/2" Pumper Nozzle GA 6-411 (6 threads per inch, 4.11 pitch diameter) and Two - 2-1/2" Hose Nozzle, NST (Superior only.)

- FITTINGS: Manufactured by Tyler or Union, Crosses, Elbows, Tees, Cap, Reducer, Adapter, Plug, Blind Flange and Tapped Flange: Ductile Iron, Class 350, SSB, Cast Iron Cement Lined.

- Foster Adaptors for MJ, made by Infact Corporation: Available in size 4" to 16". Part No. 4" - 4FA-BC, 6" - 6FA-BC, 8" - 8FA-BC, 10" - 10FA-BC, 12" - 12FA-BC, 16" - 16FA-BC.

- DETECTOR CHECK VALVE: Mueller/ Hersey EDC III, iron body, including 5/8" x 3/4" Trim Kit. Trim Kit Part No.: 4" - 282080, 6" - 282082, 8" - 282085, 10" - 282496.

- GATE VALVES: Mueller Resilient Wedge Gate Valves, meets AWWA C509 specification, 250 psig, Non-rising stem, Part No. A-2360 sizes 4" through 12" : Part No. A-2361 sizes 14" through 36", low zinc stems, epoxy coated inside and outside to meet the NSF 61 rating. The bonnet and stuffing box shall have 304 stainless steel bolts/nuts.

- TRACER WIRE and WARNING TAPE:

- (1) TRACER WIRE: Shall be direct bury AWG #14 solid copper wire, Color: Blue.

- (2) WARNING TAPE: Reef Industries, Standard Terra Tape in 3" widths. Color: Blue and imprinted "Arizona Water Company".

- AIR RELEASE VALVE: Crispin Model ARI0 with 1" NPT inlet and 1/2" NPT outlet, cast iron body and top flange; with a 5/64" orifice with stainless steel valve sealing faces and BUNA-N rubber.

- PRESSURE RELIEF VALVE: Watts 174A, Model M, 2" inlet, 2" outlet, Bronze Body, 30lb. to 150lb. pressure range.

- MEGALUG: Mechanical Joint restraint made of ductile iron conforming to ASTM 536-80, 250 psimade by EBAA Iron, Inc., series 1100 or equal.

- METER BOXES:

- (1) Concrete Box with a steel regular lid, Number 1: Tucson specification.
- (2) Concrete Box with a steel regular lid, Number 2, 3, and 4: Phoenix specification.

- PIPE, COPPER: Type K soft copper in 60 or 100-foot coils, per ASTM B88.

- PIPE, DUCTILE IRON: Ductile Iron Pipe, Cement Lined, Push-on, conform to current ANSI/AWWA Specification A21.51/C151, Pressure Class 350 (sizes 4" through 12"), Pressure Class 250 (sizes 14" through 20"), or Pressure Class 200 for 24" through 36" pipe. Vendors:

- Pacific States Cast Iron Pipe Company
- Griffin Pipe
- United States Pipe and Foundry Company
- American Ductile Iron Pipe
- Clow Pipe (McWane, Inc.)

- PIPE, PLASTIC: Plastic pipe, C-900 PVC per ANSI/AWWA C900, Class 150, sizes 6" through 12". NSF 61 approved. Furnished in laying lengths of 20'. The barrel shall conform to the outside dimensions of steel pipe (IPS) or cast iron (CI) pipe equivalent and the wall thickness of dimension-ratio (DR) 18.

- POLYETHYLENE ENCASEMENT (Polywrap): For all pipeline and related fittings installed, EXCEPT for the Coolidge Division, Minimum 8 Mil. and installed per AWWA C105/A21.5-93 and ASTM A-674-89. Manufactured by the Pacific States Cast Iron Pipe Company. The wrapping tape shall be minimum 10 mil. vinyl tape. No duct tape shall be used.

- COUPLING: Mueller, straight three part union, tested to meet ANSI/AWWA C800, H15403, conductive compression.

- STOP, ANGLE, METER, BALL: Mueller, valve, B24258, conductive compression by meter swivel nut, tested to meet ANSI/AWWA C800, size 5/8" x 3/4" x 3/4" for a 1" service.

- STOP, CORP: Mueller, ball valve, B25008, taper thread by conductive compression, tested to meet ANSI/AWWA C800 specification, sizes: 3/4", 1" and 2".

- STOP, CURB: Orised valve, H10291, iron pipe thread by iron pipe thread, quarter turn check, brass, tested to meet ANSI/AWWA C800 specification, size: 2".

- STOP, CURB: Orised valve, H10291, iron pipe thread by iron pipe thread, quarter turn check, brass, tested to meet ANSI/AWWA C800 specification, size: 2".

- STOP, CURB: Orised valve, H10291, iron pipe thread by iron pipe thread, quarter turn check, tested to meet ANSI/AWWA C800 specification. Size: 2".

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- STOP, CURB: Orised valve, H10291, iron pipe thread by iron pipe thread, quarter turn check, tested to meet ANSI/AWWA C800 specification. Size: 2".

5. INSTALLATION OF MATERIALS

All materials are to be installed in accordance with manufacturers recommendations unless otherwise directed by these Specifications.

All pipe, fittings and valves shall be laid true to the lines, grades and locations established by the Specifications and the Construction Drawings.

The ends and inside of the pipe shall be thoroughly cleaned and inspected for damage. No damaged materials shall be installed in the water distribution system. Whenever the work ceases for any reason, all open pipeline ends shall be tightly plugged by the Contractor. Plugs shall be watertight and approved by the company.

Concrete thrust blocks of the sizes required by the plans and specifications are to be provided at all valves, changes in direction or size, or at any other point where an unbalanced thrust due to water pressure would exist. Thrust blocks are to be formed to prevent any concrete from spilling over or into a joint.

Trench curves as shown on the Construction Drawings may be made without fittings when using push on joint pipe up to twelve inches (12") in diameter. If the deflection of the pipe does not exceed five degrees (5") or nineteen inches (19") per eighteen-foot (18') length of pipe. The minimum radius of such curves will be two hundred five feet (205').

Prior to construction, the appropriate agency(ies) will be notified as required by the permit(s).

It shall be the Contractor's responsibility to uncover all existing water lines being connected to, and to verify the location, depth and size of pipe before any construction begins.

Any construction performed without the knowledge of the duly authorized representative is liable for removal and replacement at the Contractor's expense.

All fire hydrants, frames, covers and valve boxes, etc. shall be adjusted to finished grade prior to the placing of the asphalt concrete surface course by the Contractor (where applicable).

Air release valves shall be installed at water system high points per Standard Detail E-9-8-2/E-9-8-3.

All water services shall be set a minimum of two feet (2') on the customer's property, preferably within the P.U.E. and not within right-of-way.

Unless otherwise specified on the construction drawings, all water mains shall be installed five feet (5') from the property line inside the right-of-way or easement.

Water valves shall be spaced not more than five hundred feet (500') in commercial districts and not more than eight hundred feet (800') in other districts. Variations may be required for transmission mains or special applications.

Installation of water line casing shall be per Standard Specification E-9-24-1.

Tracer Wire and Warning Tape are to be installed on all mains, tees, crosses, elbows and fire hydrant laterals. They will not be installed on service lines. The tracer wire will be installed on the water main 45 degrees from the vertical centerline of the pipe and shall be taped to the fittings directly and on the main every 10 feet using a minimum 10 mil vinyl tape. The tracer wire shall be placed between the valve riser and box with a minimum of 12" of wire inside. The warning tape shall be installed a minimum of two feet below the surface, being measured from final grade, directly over the center of the pipe. Any splices in the tracer wire shall be joined using waterproof connectors.

Any splices in the warning tape shall be joined using minimum 10 mil vinyl tape. The tracer wire shall be tested for continuity after backfill and compaction, but before paving. Any detected damages to the wire shall be repaired before paving will be allowed.

6. BACKFILL OF WATER MAIN TRENCHES

Backfill of any excavation shall conform to the requirements of any of the governmental agencies having jurisdiction over the location. If no governmental agency having such jurisdiction specifies backfill or compaction requirements, and no special requirements are shown on the Construction Drawings, the procedure set forth in this section will apply for water line trenches.

The bedding material shall be either native material, 100% of which will pass through a one and one-half inch (1-1/2") screen and at least 20% of which will pass through a number-8 screen, or imported material which conforms to M.A.G. specifications for A.B.C. or Type-B select materials. Bedding material shall be used below and around the pipe and a minimum of twelve inches (12") above the pipe. Shade and bedding material to be mechanically compacted prior to remainder of trench back-fill.

The remainder of the trench shall be backfilled with native or imported material which shall be of sound earthen material free from broken concrete, wood, broken pavement, or other unsuitable substances. Except as otherwise specified, backfill may be material containing no pieces larger than six inches (6") in greatest dimension.

Where settlement occurs, additional backfill material shall be placed and compacted and the trench shall be brought to final grade.

7. HYDROSTATIC TESTING OF COMPLETED PIPELINES

Hydrostatic testing of water pipelines will be completed before the new system is connected into the existing water system so that all testing can be done against all new materials.

The completed section of water pipeline to be tested shall be slowly filled with water with care being taken to expel all air from the pipe. If necessary, the pipe will be topped at high points to vent air.

The Contractor shall provide all equipment and labor necessary to accomplish this testing and the price shall be included in the unit prices. The Contractor shall notify the Company in advance of the testing so that the Company can schedule a duly authorized representative to be at the site during testing. The Contractor, at its own expense, shall make any necessary repairs to the system being tested in order to cause the section being tested to meet the test limits set below. The Contractor may request authorization of the Company to connect the new pipelines to the existing system prior to completion of pressure testing when, in the Company's sole opinion and judgment, conditions warrant such connection.

The Contractor shall assume all responsibility to complete pressure testing to Company's specifications after such connection, including, but not limited to, isolation of the new pipelines from the existing system, if necessary.

Connections prior to completion of pressure testing shall not be made unless prior Company authorization has been obtained, and any extra expenses resulting from such connections shall be the sole responsibility of the Contractor.

Leakage tests will be for a period of two hours at 200 + or - 5 psig at the point of lowest elevation; leakage may not exceed 0.1 gallons per hour per one thousand feet (1,000') of pipe per inch of diameter. If dry utilities are not installed, a second pressure test is required.

8. DISINFECTION AND FLUSHING OF COMPLETED WATER PIPELINES

Disinfection and flushing will conform to recommendations of Arizona State Department of Health Services Engineering Bulletin Number 8, latest edition, or any future Arizona Department of Environmental Quality bulletins. Contractor to follow all conditions of any discharge permit.

9. NO OTHER UTILITIES ALLOWED IN OR NEAR WATER PIPELINE TRENCHES

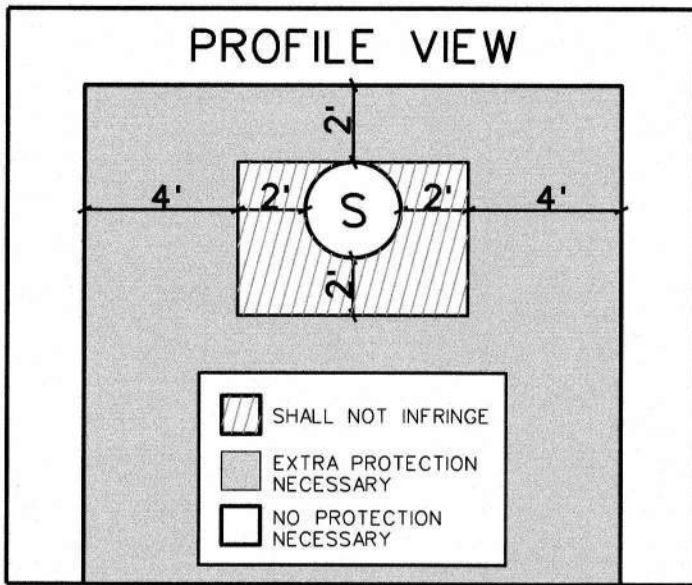
No other utility installations will be permitted in the water pipeline trench or within five feet (5') of the Company's water pipeline when running parallel to the water pipelines.

10. PROTECTION OF WATER MAINS NEAR SEWERS

In order to protect water mains from contamination by sewers, the installation of the water mains must conform to the following requirements:

- Horizontal - When water lines and sewers are laid parallel with each other, the horizontal distance between them shall not be less than six feet (6'). Each line shall be laid on undisturbed or bedded material in a separate trench. Where conditions prevent the minimum horizontal separation set forth above, extra protection will be required. Extra protection shall consist of constructing the sewer main with mechanical joint ductile iron pipe or with slip-joint ductile iron pipe if joint restraint is provided, or encasing both water and sewer main in concrete. See AWC Standard Detail E-9-30-1 and E-9-30-2.

The Construction Drawings shall indicate the installation requirements. The drawings showing these exceptions shall have been approved by the appropriate state and/or county health department. Refer to the diagram below for clarification.



Under no circumstances will the horizontal separation between sewer mains and water mains be less than two feet (2'). All distances are to be measured from the outside of the sewer main to the outside of the water main.

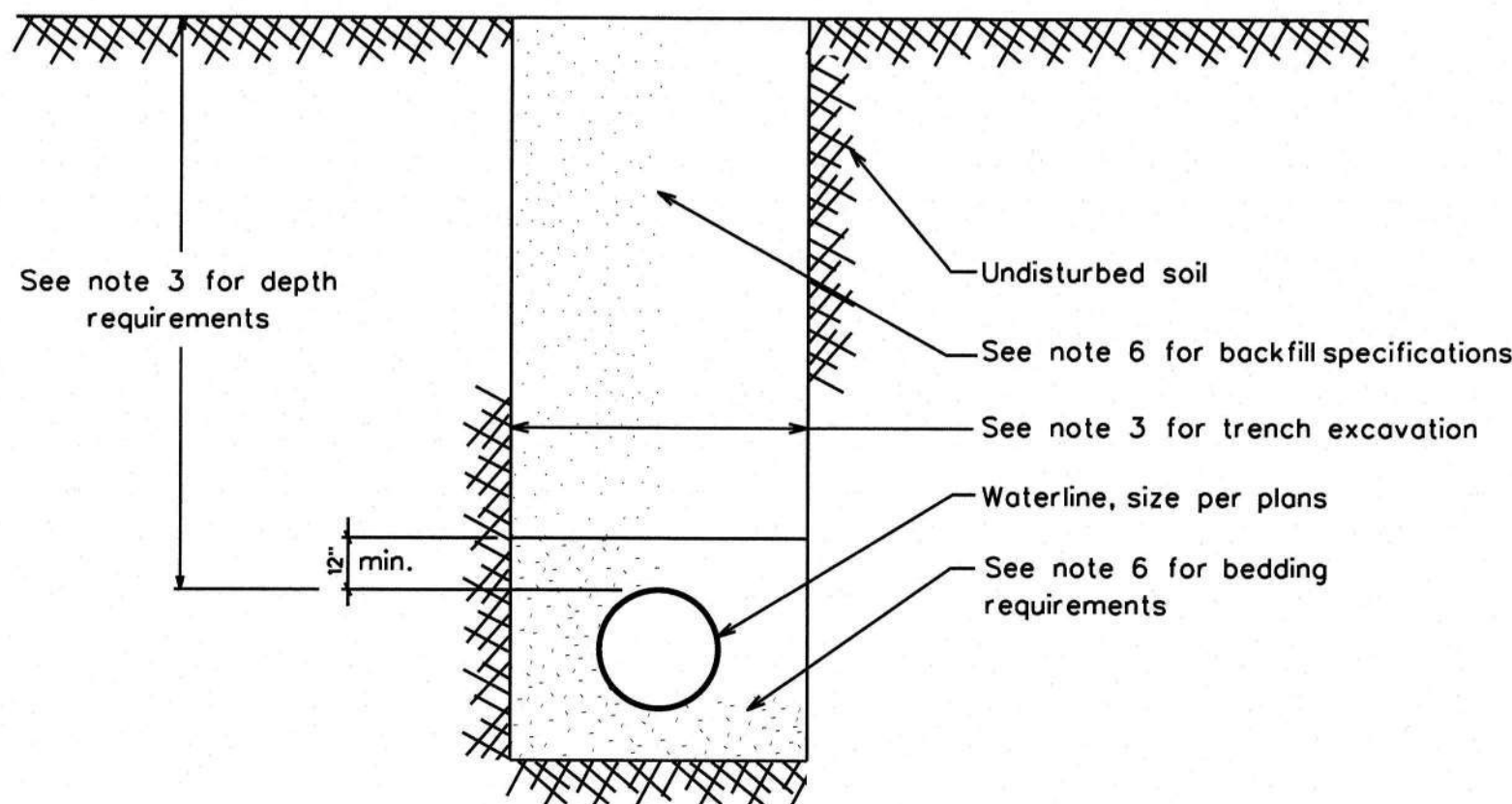
- Vertical - When a water main is parallel with or crosses a sewer main within two feet (2') above the sewer or greater than two feet (2') below the sewer, extra protection will be required. Extra protection shall consist of constructing the sewer main with mechanical joint ductile iron pipe or with slip-joint ductile iron pipe if joint restraint is provided, or encasing both water and sewer main in concrete. See AWC Standard Detail E-9-30-1 and E-9-30-2.

The Construction Drawings shall indicate the installation requirements. The drawings showing these exceptions shall have been approved by the appropriate state and/or county health department.

Under no circumstances will the vertical separation of a sewer main installed above a water main be less than two feet (2'). All distances are to be measured from the outside of the sewer main to the outside of the water main. Refer to the diagram above for clarification.

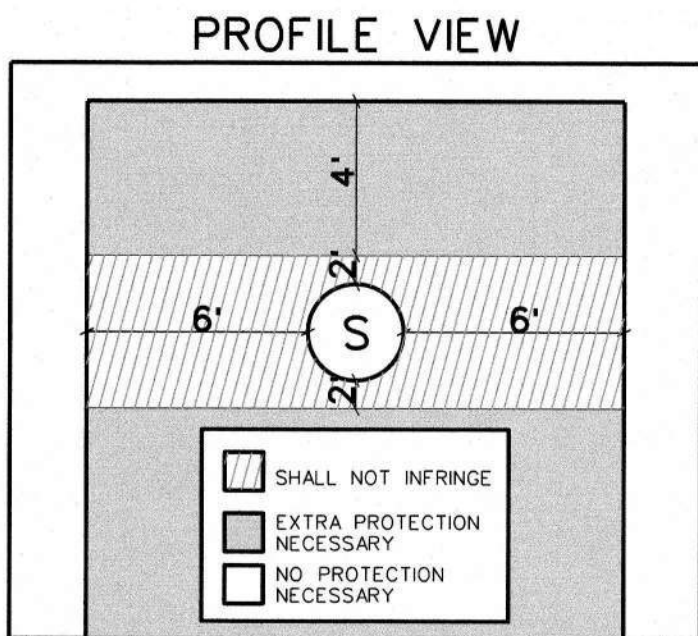
- When unusual conditions such as, but not limited to, highway or bridge crossings prevent the water and sewer main separations required from being met, the appropriate state and/or county health department will review and may approve requests for authorization to use alternate construction techniques, materials and joints on a case-by-case basis.

- No water pipe shall pass through or come into contact with any part of a sewer manhole. The minimum horizontal separation between water mains and manholes shall be six feet (6'), measured from the center of the manhole.



TYPICAL TRENCH DETAIL
Per MAG Specifications 601, 601.4.2, 601.4.6

- The minimum separation between force mains or pressure sewers and water mains shall be two feet (2') vertically and six feet (6') horizontally under all conditions. Where a sewer force main crosses above, or less than six feet (6') below, a water line, the sewer main shall be encased in at least six inches (6") of concrete for ten feet (10') on either side of the water main. Refer to the diagram below for clarification.



- Sewer mains (gravity, pressure, force) shall be kept a minimum of fifty feet (50') from drinking water wells, unless the following conditions are met:

- Water main pipe, pressure tested in place to 50 psi without excessive leakage, may be used for gravity sewers at distances greater than twenty feet (20') from drinking water wells.

- Water main pipe, pressure tested in place to 150 psi without excessive leakage, may be used for pressure sewers and force mains at distances greater than twenty feet (20') from drinking water wells.

- No septic tank/disposal field system shall be constructed within one hundred feet (100') of a drinking water well.

- All distances are measured perpendicularly from the outside of the sewer main to the outside of the water main. These separation requirements do not apply to building, plumbing or individual house service connections.

- Use Mechanical Joint ductile iron pipe with Megalug thrust restrains a minimum of ten (10') feet on each side of a sewer or storm drain crossing.

11. COMPACTION

When crossing existing water mains a minimum of 95% compaction is required to the bottom of existing mains.

Arizona Water Company requires that no slurry be permitted to contact existing cement/asbestos or ductile iron pipes, unless authorized by the company. Slurry may be poured in the bottom of the sewer trench stopping three inches (3") below the existing water main. The backfill used around the main should be AB in sufficient depth to prevent slurry from contacting existing main.

12. WATER MAIN MATERIAL SPECIFICATIONS

Ductile iron pipe (Push-on type) minimum class 350, cement lined and conform to AWWA C151.

All main line valves shall conform to AWWA C500 with a minimum working pressure of 200 psi.

All cast iron fittings to be cement lined in accordance with AWWA C104 and shall conform to AWWA C104 with a minimum working pressure of 250 psi. Except for the Coolidge System - See Note 4L.

Maximum joint deflection for 6" mechanical joint ductile iron pipe is seven degrees, seven minutes (7° 7') or twenty-seven inches (27") per eighteen-foot (18') length pipe, for a maximum curve of one hundred forty-five feet (145').

Maximum joint deflection for 8" and 12" mechanical joint ductile iron pipe is five degrees, twenty-one minutes (5° 21') or twenty inches (20") per eighteen-foot (18') length pipe, for a maximum curve of one hundred ninety-five feet (195').

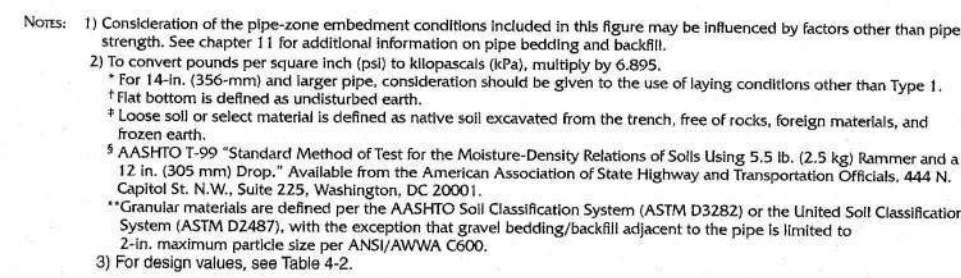
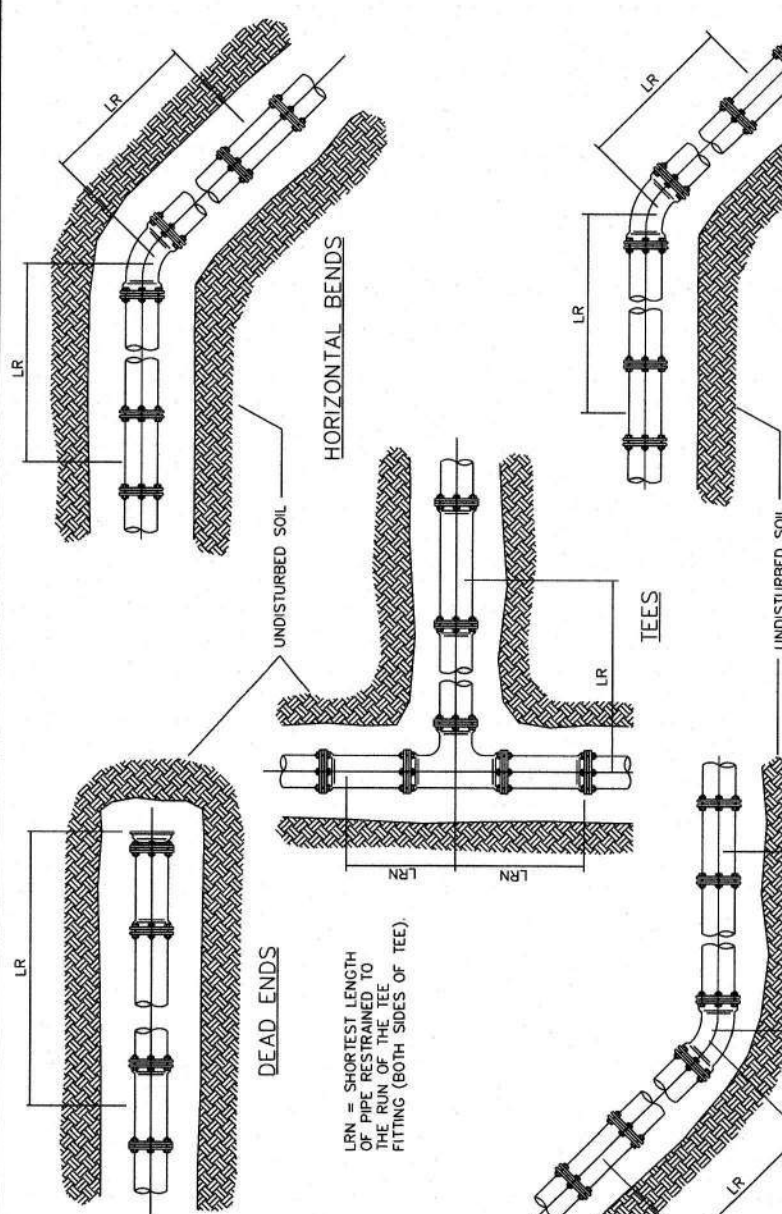
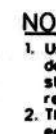
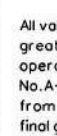


Figure 4-2 Laying conditions for ductile-iron pipe



STANDARD SPECIFICATION					
FOR THE INSTALLATION OF					
JOINT RESTRAINT FOR NEW DUCTILE IRON AND C-900 PVC MAINS					
DRAWING NO.	BWP	APPROVED BY	DATE	REVISED BY	REVISION
1000000000		AJH	01/16/2007		E-9-5-3-1
			02/04/2013		

ARIZONA WATER COMPANY

REVISIONS:

△	REVISED BY BWP ON 8/15/24 PER CITY OF CASIA GRANDE COMMENTS.
△	REVISED BY BWP ON 8/14/25 PER HIDD COMMENTS.
△	REVISED BY BWP ON 9/10/25 PER CITY OF CASIA GRANDE COMMENTS.
△	REVISED BY BWP ON 11/26/26 PER HIDD COMMENTS.

The installation shown is to be installed in accordance with the Arizona Water Company standard specifications on file with the Arizona Department of Environmental Quality

Overlook Arizona's #1 all-lead hole ball
wrecking dogs feature you begin excavation



Call 811 or eMail Arizona811.com

25	AS SHOWN
REVIEWED BY: DTC	CHECKED BY: MC

12/19
DRAWN BY:
BWP

S-5-AWC DET

PROJECT SHEET DESC:

DWG. No.:
PV-026
SHEET 42 OF

AWWA TRENCH DETAIL

RESTRAINED LENGTHS, LR, FOR DUCTILE IRON PIPE WITH POLYETHYLENE WRAP										
NOMINAL PIPE INCHES	HORIZONTAL BENDS		TEES		VERTICAL OFFSETS		90° BEND FITTINGS		DEAD ENDS	
	125°/75°		125°/75°		125°/75°		22-1/2° BEND FITTINGS		22-1/2° BEND FITTINGS	
	90°	125°/75°	90°	125°/75°	DOWN LIFT	DOWN LIFT	DOWN LIFT	DOWN LIFT	DOWN LIFT	
4	18	17	4	30	68	31	18	13	7	3
6	32	31	6	54	126	54	32	23	16	8
8	46	45	8	78	184	78	46	34	23	12
10	60	59	10	102	242	102	60	45	30	16
12	74	73	12	126	300	126	74	56	37	20
14	88	87	14	150	358	150	88	67	44	24
16	102	101	16	174	416	174	102	78	51	28
18	116	115	18	198	474	198	116	89	60	32
20	130	129	20	222	532	222	130	100	67	36
22	144	143	22	246	590	246	144	111	75	40
24	158	157	24	270	648	270	158	122	82	44
26	172	171	26	294	706	294	172	133	90	48
28	186	185	28	318	764	318	186	144	98	52
30	200	199	30	342	822	342	200	155	106	56
32	214	213	32	366	880	366	214	166	114	60
34	228	227	34	390	938	390	228	177	122	64
36	242	241	36	414	996	414	242	188	130	68
38	256	255	38	438	1054	438	256	199	138	72
40	270	269	40	462	1112	462	270	210	146	76
42	284	283	42	486	1170	486	284	221	154	80
44	298	297	44	510	1228	510	298	232	162	84
46	312	311	46	534	1286	534	312	243	170	88
48	326	325	48	558	1344	558	326	254	178	92
50	340	339	50	582	1402	582	340	265	186	96
52	354	353	52	606	1460	606	354	276	194	100
54	368	367	54	630	1518	630	368	287	202	104
56	382	381	56	654	1576	654	382	298	210	108
58	396	395	58	678	1634	678	396	309	218	112
60	410	409	60	702	1692	702	410	320	226	116
62	424	423	62	726	1750	726	424	331	234	120
64	438	437	64	750	1808	750	438	342	242	124
66	452	451	66	774	1866	774	452	353	250	128
68	466	465	68	798	1924	798	466	364	258	132
70	480	479	70	822	1982	822	480	375	266	136
72	494	493	72	846	2040	846	494	386	274	140
74	508	507	74	870	2098	870	508	397	282	144
76	522	521	76	894	2156	894	522	408	290	148
78	536	535	78	918	2214	918	536	419	298	152
80	550	549	80	942	2272	942	550	430	306	156
82	564	563	82							

RESTRAINED LENGTHS, LR, FOR DUCTILE IRON PIPE WITH POLYETHYLENE WRAP										
NOMINAL PIPE INCHES	HORIZONTAL BENDS		TEES		VERTICAL OFFSETS		90° BEND FITTINGS		DEAD ENDS	
	125°/75°		125°/75°		125°/75°		22-1/2° BEND FITTINGS		22-1/2° BEND FITTINGS	
	90°	125°/75°	90°	125°/75°	DOWN LIFT	DOWN LIFT	DOWN LIFT	DOWN LIFT	DOWN LIFT	
4	28	17	4	63	126	63	28	13	8	3
6	49	19	6	109	218	109	49	23	14	6
8	69	29	8	155	309	155	69	33	20	8
10	89	39	10	201	401	201	89	43	26	10
12	109	49	12	247	493	247	109	53	32	12
14	129	69	14	293	585	293	129	63	38	14
16	149	89	16	339	677	339	149	73	44	16
18	169	109	18	385	769	385	169	83	50	18
20	189	129	20	431	861	431	189	93	56	20
22	209	149	22	477	953	477	209	103	62	22
24	229	169	24	523	1045	523	229	113	68	24
26	249	189	26	569	1137	569	249	123	74	26
28	269	209	28	615	1229	615	269	133	80	28
30	289	229	30	661	1321	661	289	143	86	30
32	309	249	32	707	1413	707	309	153	92	32
34	329	269	34	753	1505	753	329	163	98	34
36	349	289	36	799	1597	799	349	173	104	36
38	369	309	38	845	1689	845	369	183	110	38
40	389	329	40	891	1781	891	389	193	116	40
42	409	349	42	937	1873	937	409	203	122	42
44	429	369	44	983	1965	983	429	213	128	44
46	449	389	46	1029	2057	1029	449	223	134	46
48	469	409	48	1075	2149	1075	469	233	140	48
50	489	429	50	1121	2241	1121	489	243	146	50
52	509	449	52	1167	2333	1167	509	253	152	52
54	529	469	54	1213	2425	1213	529	263	158	54
56	549	489	56	1259	2517	1259	549	273	164	56
58	569	509	58	1305	2609	1305	569	283	170	58
60	589	529	60	1351	2701	1351	589	293	176	60
62	609	549	62	1397	2793	1397	609	303	182	62
64	629	569	64	1443	2885	1443	629	313	188	64
66	649	589	66	1489	2977	1489	649	323	194	66
68	669	609	68	1535	3069	1535	669	333	200	68
70	689	629	70	1581	3161	1581	689	343	206	70
72	709	649	72	1627	3253	1627	709	353	212	72
74	729	669	74	1673	3345	1673	729	363	218	74
76	749	689	76	1719	3437	1719	749	373	224	76
78	769	709	78	1765	3529	1765	769	383	230	78
80	789	729	80	1811	3621	1811	789	393	236	80
82	809	749	82	1857	3713	1857	809	403	242	82
84	829	769	84	1903	3805	1903	829	413	248	84
86	849	789	86	1949	3897	1949	849	423	254	86
88	869	809	88	1995	3989	1995	869	433	260	88
90	889	829	90	2041	4081	2041	889	443	266	90
92	909	849	92	2087	4173	2087	909	453	272	92
94	929	869	94	2133	4265	2133	929	463	278	94
96	949	889	96	2179	4357	2179	949	473	284	96
98	969	909	98	2225	4449	2225	969	483	290	98
100	989	929	100	2271	4541	2271	989	493	296	100

NOTES: 1. ALL LENGTHS WITH THE ABOVE LISTED UNITS LR MUST BE RESTRAINED.

2. ALL LENGTHS ARE GIVEN IN FEET.

3. THE MAXIMUM TEST PRESSURE SHALL NOT EXCEED 200 PSI.

4. THE MINIMUM DEPTH OF BURST SHALL BE 3 TO 1 TOP OF PIPE.

5. RESTRAINED LENGTHS MAY BE FOLLOWED WHEN SUPPORTED BY ENGINEERING CALCULATIONS.

6. RESTRAINED LENGTHS MAY BE FOLLOWED WHEN SUPPORTED BY ENGINEERING CALCULATIONS.

7. RESTRAINED LENGTHS MAY BE FOLLOWED WHEN SUPPORTED BY ENGINEERING CALCULATIONS.

8. RESTRAINED LENGTHS MAY BE FOLLOWED WHEN SUPPORTED BY ENGINEERING CALCULATIONS.

9. RESTRAINED LENGTHS MAY BE FOLLOWED WHEN SUPPORTED BY ENGINEERING CALCULATIONS.

10. RESTRAINED LENGTHS MAY BE FOLLOWED WHEN SUPPORTED BY ENGINEERING CALCULATIONS.

11. RESTRAINED LENGTHS MAY BE FOLLOWED WHEN SUPPORTED BY ENGINEERING CALCULATIONS.

12. RESTRAINED LENGTHS MAY BE FOLLOWED WHEN SUPPORTED BY ENGINEERING CALCULATIONS.

13. RESTRAINED LENGTHS MAY BE FOLLOWED WHEN SUPPORTED BY ENGINEERING CALCULATIONS.

14. RESTRAINED LENGTHS MAY BE FOLLOWED WHEN SUPPORTED BY ENGINEERING CALCULATIONS.

15. RESTRAINED LENGTHS MAY BE FOLLOWED WHEN SUPPORTED BY ENGINEERING CALCULATIONS.

16. RESTRAINED LENGTHS MAY BE FOLLOWED WHEN SUPPORTED BY ENGINEERING CALCULATIONS.

STANDARD SPECIFICATION

FOR THE INSTALLATION OF

JOINT RESTRAINT FOR DUCTILE IRON PIPE AND 4800 PVC MANHOLE

ARIZONA WATER COMPANY

CB
12.07.2021
△ 5.13.2021
E-9-2-3

NOTE: All Flanges, Bolts, Nuts, and Ductile Iron, Shall Be Kapt Free Of Concrete

ARIZONA WATER COMPANY

STANDARD SPECIFICATION FOR THE INSTALLATION OF TYPICAL PERPENDICULAR FIRE HYDRANT			
REV	DATE	BY	CHECKED
1	1-28-91		
2	08-24-2000		

ENCASUREMENT FOR PIPE CROSSING

SECTION A-A

12,000 PSI CONCRETE

ARIZONA WATER COMPANY

STANDARDS SPECIFICATION

FOR THE INSTALLATION OF

WATER AND SANITARY SEWER

ENCASUREMENT

ITEM	DESCRIPTION	UNIT	QUANTITY	DATE
1	CONCRETE	CU YD	1.00	04/01/2000
2	REINFORCING STEEL	LB	1.00	04/01/2000
3	FORMWORK	SQ YD	1.00	04/01/2000

NOTES:

1. SEE CROSS SECTION DETAIL FOR LIMITS OF SEPARATION/STRAIGHT PROTECTION. ALL DISTANCES ARE MEASURED PERPENDICULAR TO THE CENTERLINE OF THE PIPE.
2. SEE CROSS SECTION DETAIL FOR LIMITS OF SEPARATION/STRAIGHT PROTECTION. ALL DISTANCES ARE MEASURED PERPENDICULAR TO THE CENTERLINE OF THE PIPE.
3. WHEN PLACED NEXT TO A POLE, WATER MAIN, OR SANITARY SEWER.

ENCASUREMENT FOR PIPE CROSSING

SECTION A-A

12,000 PSI CONCRETE

ARIZONA WATER COMPANY

STANDARDS SPECIFICATION

FOR THE INSTALLATION OF

WATER AND SANITARY SEWER

ENCASUREMENT

ITEM	DESCRIPTION	UNIT	QUANTITY	DATE
1	CONCRETE	CU YD	1.00	04/01/2000
2	REINFORCING STEEL	LB	1.00	04/01/2000
3	FORMWORK	SQ YD	1.00	04/01/2000

NOTES:

1. SEE CROSS SECTION DETAIL FOR LIMITS OF SEPARATION/STRAIGHT PROTECTION. ALL DISTANCES ARE MEASURED PERPENDICULAR TO THE CENTERLINE OF THE PIPE.
2. SEE CROSS SECTION DETAIL FOR LIMITS OF SEPARATION/STRAIGHT PROTECTION. ALL DISTANCES ARE MEASURED PERPENDICULAR TO THE CENTERLINE OF THE PIPE.
3. WHEN PLACED NEXT TO A POLE, WATER MAIN, OR SANITARY SEWER.

No. 4 Meter Box With Lid
 2" Sized AB FB
 Final Grade
 Minimum Depth Per Arizona Water Company Standard Specifications
 Undisturbed Soil
 Street El.
 Ductile Iron Pipe
 Size Per Plans
 Trench Grade
 Concrete Thrust Blocking
 Per E-9-5-1
 12"
 30"

The diagram illustrates a cross-section of a manhole installation. At the top, a 'No. 4 Meter Box With Lid' is shown. Below it is a '2" Sized AB FB' (Access Box Frame). The 'Final Grade' is indicated by a horizontal line. The 'Minimum Depth Per Arizona Water Company Standard Specifications' is shown as the distance from the final grade to the bottom of the manhole. The 'Undisturbed Soil' is shown on the left side. The 'Street El.' (Elevation) is marked on the right side. The 'Ductile Iron Pipe' is shown with a 'Size Per Plans' and a 'Trench Grade' indicated by a horizontal line. The 'Concrete Thrust Blocking Per E-9-5-1' is shown as a concrete structure at the bottom of the manhole. Dimensions of 12" and 30" are indicated for the concrete blocking.

FITTINGS SCHEDULE	
1.	2" Meter Box Nuts/ Washers S-50253 FIP x FIP W/ Mutter Brass Square Thread Nut Adapter S-20026
2.	2" Brass Nipple - Length To Fit Final Conditions
3.	2" Brass 90° Elbow, #151
4.	Washer/ Washer Strap Bronze Service Saddle - #B20
5.	W.J. Plug - Negative Restrictions May Be Required
6.	2" Straight Coupling CC x FIP H-55451
7.	2" Copper Pipe
8.	2" Straight Coupling CC x MP H-5428
9.	2" Square Head Plug, MP

ARIZONA WATER COMPANY
 FOR THE INSTALLATION OF
 2" BLOWOFF ASSEMBLY

CB MW 03.20.2006 03.21.2006 E-9-B-1

[illegible]

Unstretched Seal, Typical

CB MW 03.20.1986 03.05.2010 E-03-5-1

All Copper Pipe Which Comes Into Contact With Concrete Should Be Wrapped in 20 Mil Scotch Wrap

Final Grade

NOTE: The Horizontal and Vertical Alignment Of The Copper Line Will Vary According To The Project Conditions

Minimum Depth Per Arizona Water Company Standard Specifications

Ductile Iron Pipe Size Per Plans

Trench Grade

GENERAL NOTES:

- The valve must be installed at high points and on long runs to vent the accumulation of air with the line under pressure. See the construction plans for specific locations.
- The valve should be 3/4\"
- The valve should be BUNA-N rubber.
- The valve should be Crispin model #110 for 12\"
- Crispin model #110 valve construction consists of a 1\"
- The air release assembly should be located out of the path of traffic but within sight-of-way or easement.

FITTINGS SCHEDULE

1.	Musler #8228 Bronze Service Saddle - Double Sided
2.	1\"
3.	1\"
4.	1\"
5.	Crispin 1\"
6.	1/2\"
7.	1/2
8.	4\"
9.	1/2

ARIZONA WATER COMPANY

STANDARD SPECIFICATION
FOR THE INSTALLATION OF
TYPICAL AIR RELEASE VALVE

CB MW 03.20.1986 03.05.2010 E-03-5-1

[illegible][illegible][illegible]

TYPICAL WATER TRENCH DETAIL

The diagram shows a cross-section of a trench. At the top, 'Existing Grade' is indicated. A '3" Terra Tape, Impregnated "ARIZONA WATER CO." is shown at the surface. The trench walls are lined with '14 AWG Solid Copper Direct-Bury Locater Wire'. The bottom of the trench is filled with 'Compacted Native Fill'. A 'Water Main' is shown at the bottom of the trench. The trench is labeled 'Undisturbed Native Material'.

TYPICAL PROFILE VIEW

The diagram shows a side view of the trench. It includes labels for 'Size Pipe Per Plans', '14 AWG Solid Copper Direct-Bury Locater Wire', 'Polyethylene Encasement per DIPRA Method "A" - Wet Trench Conditions', and '10 Mil Vinyl Tape - Typ'.

WIRE GENERAL NOTES:

1. All pipe shall have #14 AWG Solid Copper Direct-Bury Locater Wire installed directly to the Polypropylene 44" from The Vertical Center Of The Pipe and Shall be Attached Using 10' Mil Vinyl Tape.
2. The Locating Wire Shall Terminate At the Top Of Each Valve Box and be Capable of Extending 12" Above the Top Of The Box in Such A Manner So As Not To Interfere With Valve Operation.

TAPE GENERAL NOTES:

1. Use Terra Tape 3" Marking Tape As Manufactured By Reef Industries Inc. Of Houston, Texas (1-800-231-2417)
2. The Tape is Black & Impregnated "ARIZONA WATER CO."
3. **INSTALLATION:** The Pipe Warning Tape Shall be Installed Over All Water Mains And Shall be Buried 24 inches Below The Surface Over The Center Of The Pipe.
 - A) The Backfill Shall be Sufficiently Loaded So That The Tape is Healed On A Flat Surface.
 - B) The Tape Shall be Centered in the Trench With The Printed Side Up.
 - C) Care Shall be Exercised to Avoid Movement Of The Tape While The Remaining Backfill is Moved into The Trench.

ARIZONA WATER COMPANY

STANDARD SPECIFICATION
FOR THE INSTALLATION OF
PIPE WARNING TAPE AND LOCATOR WIRE

REVISIONS: _____

DATE: _____

BY: _____

[illegible][illegible]