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# CITY OF CHANDLER, ARIZONA

## RECLAIMED WATER CONVEYANCE IMPROVEMENTS PROJECT

### RECLAIMED WATER TRANSMISSION MAIN PROJECT NO. WW2206.403



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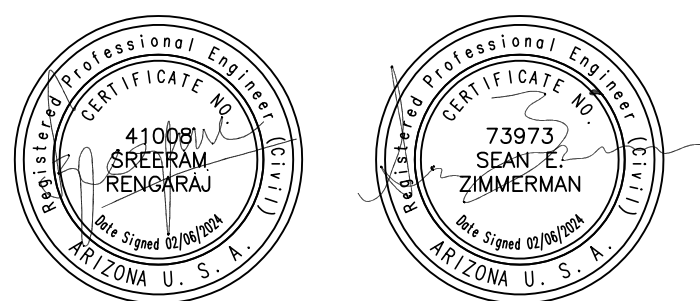
**MECHANICAL**

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UTILITY NAME	CONTACT NAME	DATE SUBMITTED
SRP	JESSICA MILES	1/25/2024
CENTURYLINK	MARK GRABOWSKI	1/25/2024
COX	JACOB HORSMAN	1/25/2024
SWG	GENE FLOREZ	1/25/2024

**BENCHMARK:**

SECTION 10, T2S, R5E, CITY OF CHANDLER BRASS CAP IN HAND HOLE AT THE INTERSECTION OF TUMBLEWEED PARK RD AND PIONEER PARKWAY; 1300' SOUTH OF GERMANN RD AND 700' WEST OF MCQUEEN RD. (NORTHING, 827154.945, EASTING, 727632.268) NGVD 29 ELEVATION = 1222.715; ADD 1.696 TO NGVD 29 ELEVATION FOR NAVD 88 ELEVATION: 1222.715 + 1.696 = 1224.41



**LOCATION FOR AS-BUILT INDEXING:**

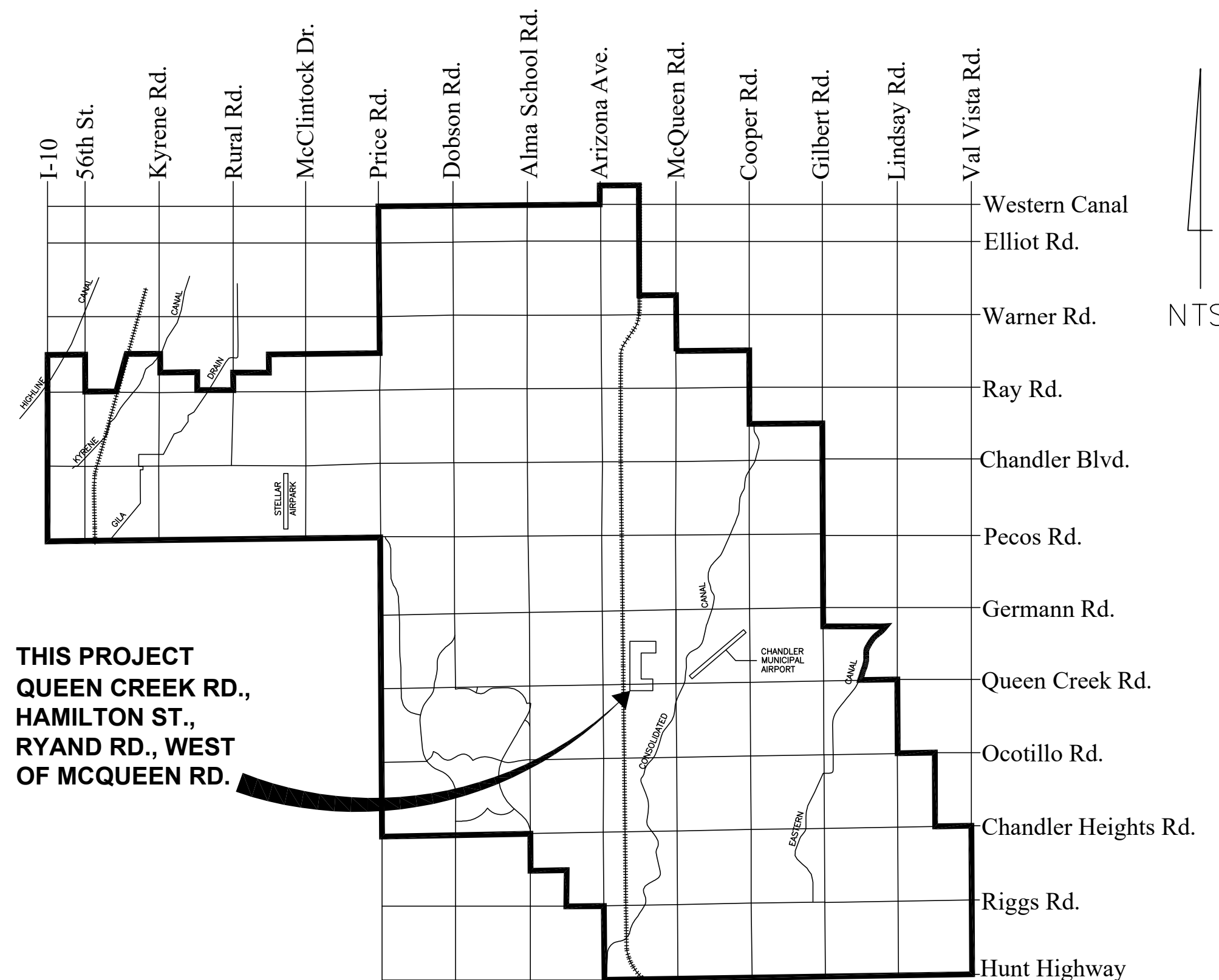
TOWNSHIP 2S, RANGE 5E, SECTION 10, 1/4 SECTION SE

**DATE: AUGUST 2024**

**STATUS: FOR CONSTRUCTION**

REV. NO.	DATE	DRWN	CHKD	REMARKS

**FOR CONSTRUCTION**  
**AUGUST 2024**  
**VOLUME 3 OF 3**



THIS PROJECT  
QUEEN CREEK RD.,  
HAMILTON ST.,  
RYAND RD., WEST  
OF MCQUEEN RD.

**VICINITY MAP**

**CITY OF CHANDLER**  
**PUBLIC WORKS & UTILITIES DEPARTMENT**  
215 EAST BUFFALO STREET  
CHANDLER, AZ 85225  
PHONE NO. (480) 782 - 3000

**WILSON ENGINEERS**  
1620 W. FOUNTAINHEAD PKWY,  
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TEMPE, ARIZONA 85282  
PHONE: (480) 893-8860  
SEAN ZIMMERMAN  
SEZIMMERMAN@WILSON-ENGINEERS.COM

**APPROVED:**

*Daniel Haskins*

PUBLIC WORKS & UTILITIES DIRECTOR PM

DATE

*Daniel Haskins*

CITY ENGINEER

DATE

*Daniel Haskins*

CIVIL PLAN REVIEW MANAGER

DATE

MARICOPA COUNTY ENVIRONMENTAL SERVICE DEPARTMENT (RWR-24-00005)

8/13/2024  
DATE

**AS-BUILT CERTIFICATION:**

I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION AS SHOWN HEREON WAS MADE UNDER MY SUPERVISION, OR AS NOTED, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
FIRM NAME

PRINTED NAME

DATE

REGISTRATION NO.

EXPIRATION DATE

I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN HEREON SATISFIES THE INTENT OF THE DESIGN.

REGISTERED CIVIL ENGINEER  
FIRM NAME

REGISTRATION NO:

DATE

REGISTRATION NO.

EXPIRATION DATE

C.O.C. LOG NO CIV23-0155

PROJECT NAME: RECLAIMED WATER CONVEYANCE IMPROVEMENTS PROJECT NO. WW.2206.403

**GENERAL NOTES:**

- ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH THE MOST CURRENT ADOPTED MAG SPECIFICATIONS AND STANDARD DETAILS AS SUPPLEMENTED BY THE CITY OF CHANDLER.
- THE CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- THE DEVELOPMENT ENGINEERING OFFICE MUST BE NOTIFIED 24 HOURS PRIOR TO STARTING EACH PHASE OF CONSTRUCTION (480-782-3300).
- PROJECT ELEVATIONS ARE BASED UPON NAVD 88 DATUM. THE FOLLOWING BENCHMARK WAS UTILIZED:

BENCHMARK NUMBER	NGVD 29 ELEVATION	DESCRIPTION	EQUATION	NAVD 88 ELEVATION
40A	1222.715	SECTION 10, T2S, R5E, CITY OF CHANDLER BRASS CAP IN HAND HOLE AT THE INTERSECTION OF TUMBLEWEED PARK ROAD AND PIONEER PARKWAY; 1300' SOUTH OF GERMANN ROAD AND 700' WEST OF MCQUEEN ROAD (NORTHING 827154.945, EASTING 727632.268) CITY OF CHANDLER BENCHMARK #40A NGVD 29 ELEVATION = 1222.715; ADD 1.696 TO NGVD 29 ELEVATION FOR NAVD 88 ELEVATION: 1222.715+1.696=1224.41	1.696	1224.41

- PRIOR TO ANY CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR/DEVELOPER MUST NOTIFY THE LANDSCAPE MAINTENANCE AND DESIGN COORDINATOR AT 480-782-3428. ANY CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE RESTORED TO ORIGINAL CONDITIONS USING THE FOLLOWING REQUIREMENTS:
  - ALL LANDSCAPE IMPACTED BY CONSTRUCTION MUST BE REPLACED IN KIND AND SIZE, OR AS DETERMINED BY THE CITY;
  - ALL IRRIGATION SYSTEMS MUST BE RESTORED TO FULLY FUNCTIONING STATUS. ANY IRRIGATION LOCATED BENEATH ASPHALT OR CONCRETE MUST BE SLEEVED WITH SCHEDULE 40 PVC TWO NOMINAL SIZES LARGER;
  - THE AREA OF CONSTRUCTION MUST BE TREATED WITH PRE-EMERGENT HERBICIDE (I.E. SURFLAN);
  - GRANITE OF A SIZE AND COLOR TO MATCH EXISTING MUST BE SPREAD A MINIMUM OF TWO INCHES THICK;
  - THE STREETS DIVISION MUST BE CONTACTED TO INSPECT ALL WORK BEFORE A CONDITIONAL ACCEPTANCE IS ISSUED;
  - THE CONTRACTOR/DEVELOPER MUST MAINTAIN THE AREA FOR NINETY DAYS AFTER CONDITIONAL ACCEPTANCE. AFTER 90 DAYS THE CITY MUST BE CONTACTED FOR FINAL ACCEPTANCE AND ASSUMPTION OF MAINTENANCE.
- WORK PERFORMED BY THE CONTRACTOR:
  - ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY ENGINEER AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
  - WHENEVER THE INSPECTOR FINDS ANY WORK BEING PERFORMED IN A DANGEROUS OR UNSAFE MANNER, OR CONTRARY TO THE PLANS OR SPECIFICATIONS, OR NOT MEETING THE INTENT OF THE PLANS OR SPECIFICATIONS, THE INSPECTOR WILL ISSUE A STOP WORK ORDER. UPON ISSUANCE OF A STOP ORDER, THE CITED WORK MUST IMMEDIATELY CEASE. THE STOP WORK ORDER MUST STATE THE REASON FOR THE ORDER, AND THE CONDITIONS WHICH CITED WORK IS AUTHORIZED TO RESUME UPON WRITTEN ORDER TO RESUME WORK. WHERE AN EMERGENCY EXISTS, THE INSPECTOR MUST NOT BE REQUIRED TO GIVE A WRITTEN NOTICE PRIOR TO STOPPING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS AND DELAYS FOR THE WORK RELATED TO THE STOP WORK ORDER.
- THE CONTRACTOR MUST UNCOVER ALL EXISTING CITY UTILITY LINES BEING TIED INTO TO VERIFY THEIR TYPE, CONDITION, LOCATION, INVERT, SLOPE AND ANY OTHER INFORMATION NEEDED TO DETERMINE THAT THE UTILITY CONNECTION WILL FUNCTION AS DESIGNED. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ANY REPAIRS NECESSARY TO THE LATERAL OR MAIN LINES OF THE CITY WATER, RECLAIMED WATER, SANITARY SEWER, AND/OR STORM DRAIN SYSTEM NECESSARY FOR THE CONNECTION TO FUNCTION AS DESIGNED. THE CONTRACTOR MUST LOCATE OR HAVE LOCATED ALL EXISTING UNDERGROUND PRIVATE UTILITIES (ELECTRIC, TELEPHONE, PIPELINES, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND MUST ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION. BLUE STAKE TELEPHONE (602) 263-1100.
- THE CITY OF CHANDLER IS NOT RESPONSIBLE FOR LIABILITY INCURRED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR UTILITY RELOCATION.
- NO FINAL ACCEPTANCE MUST BE ISSUED UNTIL 4 MIL PHOTO MYLAR REPRODUCIBLE "AS-BUILT" PLANS CERTIFIED AND SEALED BY A REGISTERED CIVIL ENGINEER, HAVE BEEN SUBMITTED AND ACCEPTED BY THE CITY ENGINEER.
- APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. ALL PAVEMENT REPLACEMENT MUST BE IN ACCORDANCE WITH SECTION 336 AND AS MODIFIED BY CITY SUPPLEMENTS.
- BACKFILLING MUST NOT BE STARTED UNTIL LINES ARE APPROVED BY THE CITY ENGINEER. ALL BACKFILL MUST BE HALF-SACK CLSM UNLESS OTHERWISE APPROVED ON THE PLANS. ABC OR NATIVE MATERIAL MUST BE INSTALLED IN ACCORDANCE WITH MAG SECTION 601, TYPE I. BACKFILL PLACEMENT AND SURFACE REPLACEMENT MUST BE IN ACCORDANCE WITH MAG STD DTL 200 T-TOP.
- CONSTRUCTION OF CONCRETE OR PAVING ITEMS MUST NOT COMMENCE UNTIL ALL UNDERGROUND WORK HAS BEEN INSPECTED AND TESTED.
- DISPOSAL OF AND STOCKPILING OF EXCESS MATERIAL WITHIN THE CHANDLER CITY LIMITS OR PLANNING AREA MUST BE DONE IN SUCH A WAY THAT WILL NOT CREATE A NUISANCE. THE PLACING OF MATERIAL ON PRIVATE PROPERTY OF ANOTHER REQUIRES WRITTEN AUTHORIZATION. EARTHWORK STOCKPILES ARE NOT TO EXCEED 6 FEET IN HEIGHT. SLOPES ON ALL SIDES OF THE STOCKPILE MUST NOT EXCEED A 1 TO 2 RATIO OF HEIGHT TO LENGTH. ANY EARTHWORK STOCKPILE, EVEN LESS THAN 6 FEET, MUST BE REMOVED WITHIN 7 DAYS OF CITY NOTIFICATION IF DUST SUPPRESSION EFFORTS FAIL TO MAINTAIN SATISFACTORY AIRBORNE CONTAMINANT CONTROL.
- TRAFFIC CONTROL MUST BE MAINTAINED IN ACCORDANCE WITH THE CHANDLER TRAFFIC BARRICADE DESIGN REQUIREMENTS AND APPROVED TRAFFIC SEQUENCING PLANS AND/OR NOTES.
- THE CONTRACTOR MUST PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES THE CONTRACTOR MUST UTILIZE A PM10-CERTIFIED STREET SWEEPER FOR STREET CLEANING.
- AN APPROVED SET OF PLANS MUST BE MAINTAINED ON THE JOB SITE AT ALL TIMES THAT WORK IS IN PROGRESS. DEVIATION FROM THE PLANS WILL NOT BE ALLOWED WITHOUT AN APPROVED PLAN REVISION.
- A MINIMUM HORIZONTAL SEPARATION OF SIX (6) FEET IS REQUIRED BETWEEN SEWER SERVICES

AND WATER OR FIRELINE SERVICES. A MINIMUM HORIZONTAL SEPARATION OF SIX (6) FEET IS REQUIRED BETWEEN RECLAIMED WATER SERVICES AND SEWER, WATER, OR FIRELINE SERVICES.

**GENERAL NOTES (CONT):**

- SETBACKS FOR UTILITY POLES, STRUCTURES, AND OTHER SIMILAR FACILITIES (NOT INCLUDING LANDSCAPING) GREATER THAN 18 INCHES IN HEIGHT IS 5.5 FEET FROM THE BACK OF CURB UNLESS APPROVED IN WRITING BY THE CITY ENGINEER. IN CASES WHERE THE FACILITIES ARE ADJACENT TO A DECELERATION LANE, BUS BAY, OR MEDIAN CURB, THE SETBACK CAN BE REDUCED TO 2.5 FEET FROM THE BACK OF CURB.
- SCREEN WALLS OVER 7', RETAINING WALLS OVER 4' MUST HAVE A BUILDING PERMIT AND BE IN CONFORMANCE WITH CHANDLER BUILDING CODE.
- ALL UNDERGROUND FACILITIES INSTALLED IN ANY REAL PROPERTY OUTSIDE THE CITY'S RIGHT-OF-WAY MUST COMPLY WITH THE FOLLOWING MARKING STANDARDS IN ACCORDANCE WITH HOUSE BILL 2256. A YELLOW INSULATED COPPER WIRE OR OTHER APPROVED CONDUCTOR MUST BE INSTALLED ADJACENT TO UNDERGROUND UTILITIES FOR FIRE LINE PIPING, POTABLE WATER DISTRIBUTION PIPING, SANITARY SEWER LINES, STORMWATER PIPING, RECLAIMED WATER PIPING, GRAVITY FLOW IRRIGATION PIPING AND PRESSURIZED IRRIGATION PIPING LARGER THAN TWO (2) INCHES IN DIAMETER UNLESS THESE FACILITIES CAN BE DETECTED FROM ABOVE GROUND WITH AN ELECTRONIC LOCATING DEVICE. ACCESS MUST BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE MUST TERMINATE ABOVE GROUND AT EACH END OF THE PIPING. THE TRACER WIRE MUST NOT BE LESS THAN 18 AWG AND SUITABLE INSULATION TYPE FOR DIRECT BURIAL.
- ANY CONSTRUCTION DETOURS WILL REQUIRE AN ALL-WEATHER SURFACE PER MARICOPA COUNTY AIR QUALITY REQUIREMENTS.
- THE CONTRACTOR MUST SUPPLY PUBLIC WORKS INSPECTOR CONSTRUCTION MATERIAL TESTING DOCUMENTATION THROUGHOUT THE PROJECT.
- ALL SITE IMPROVEMENTS, INCLUDING LANDSCAPE AND SITE CLEANUP, MUST BE COMPLETE PRIOR TO CERTIFICATE OF OCCUPANCY FOR ANY BUILDING WITHIN A PHASE.

**GRADING AND DRAINAGE NOTES:**

- A GRADING PERMIT IS REQUIRED.
- APPROVED MINIMUM FINISH FLOOR ELEVATION SHALL BE ALTERED.
- STAKING FINISH FLOOR ELEVATION IS THE RESPONSIBILITY OF THE DEVELOPER AND HIS ENGINEER.
- CONTRACTOR SHALL PROVIDE GRADING FOR POSITIVE DRAINAGE IN ALL RETENTION BASINS AT ELEVATIONS AS SHOWN ON THE PLANS. BOTTOM OF BASIN SHALL BE GRADED TO DRAIN TOWARD DRYWELLS (WHEN USED). MAXIMUM SIDE SLOPES SHALL BE 4:1.
- DRYWELL INLET GRATE SHALL BE FLUSH WITH ROAD SURFACE OR TURF, OR 1-1/2" ABOVE THE FINISHED GRADE OF DECOMPOSED GRANITE LANDSCAPED AREAS.
- DRILLING LOGS FOR DRYWELLS WILL BE FURNISHED TO THE CITY INSPECTOR PRIOR TO FINAL ACCEPTANCE.
- A PERCOLATION TEST SHALL BE REQUIRED OF COMPLETED DRYWELLS PRIOR TO ACCEPTANCE. SHOULD EXISTING SOIL CONDITIONS BE ENCOUNTERED WHICH LACK SUFFICIENT PERCOLATION RATES, ADDITIONAL DRYWELLS OR AN ALTERNATE METHOD OF STORM WATER RUN-OFF DISPOSAL WILL BE REQUIRED.

DRYWELL KEY MAP #	ADEQ REG #	FIELD PERC RATE (CFS)
N/A	N/A	N/A

- DRYWELL CONSTRUCTION SHALL BE DONE ONLY BY CONTRACTORS LICENSED BY THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY. APPLICATION FOR DRYWELL REGISTRATION WAS SUBMITTED TO ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY ON                      N/A                      (DATE).
- THE APPROVED DRYWELL REGISTRATION SHALL BE SUBMITTED TO THE CITY BY THE DEVELOPER OR HIS ENGINEER AT THE TIME AS-BUILTS ARE SUBMITTED.
- ALL WEEP HOLES IN WALLS SHALL BE PROVIDED WITH EROSION PROTECTION 12" THICK WITH D50 = 4" RIPRAP, 24" IN WIDTH, EXTENDED TO THE BACK OF SIDEWALK OR TO THE BOTTOM OF RETENTION BASIN, WHICHEVER APPLIES.
- A RETAINING WALL WILL BE REQUIRED IF AT THE COMPLETION OF GRADING THERE EXISTS MORE THAN ONE FOOT OF DIFFERENCE IN ELEVATION BETWEEN THIS SITE AND ADJACENT PROPERTIES.
- SCREEN WALLS OVER 7', RETAINING WALLS OVER 4' MUST HAVE A BUILDING PERMIT AND BE IN CONFORMANCE WITH CHANDLER BUILDING CODE.
- THE EXISTING RETENTION AND DRAINAGE FACILITIES ON THIS SITE WILL NOT BE REMOVED FROM SERVICE UNTIL THE PERMANENT RETENTION AND DRAINAGE FACILITIES ARE FUNCTIONAL.

**APS AND/OR SRP FACILITIES:**

NOTE: THE SALT RIVER PROJECT, ARIZONA PUBLIC SERVICE, AND OTHER UTILITY PROVIDERS MAINTAIN ENERGIZED AERIAL AND UNDERGROUND ELECTRICAL POWER LINES AND GAS PIPE LINES IN THE IMMEDIATE VICINITY OF THIS PROJECT. DO NOT CONSIDER THESE LINES TO BE INSULATED OR ENCASED. CONSTRUCTION PERSONNEL WORKING IN PROXIMITY TO THESE UTILITY LINES ARE EXPOSED TO AN EXTREME HAZARD. CONTRACTORS, THEIR EMPLOYEES, AND ALL OTHER CONSTRUCTION PERSONNEL WORKING ON THIS PROJECT ARE WARNED OF THE DANGER AND INSTRUCTED TO TAKE ADEQUATE PROTECTIVE MEASURES. (SEE OSHA STD. 1926) AS AN ADDITIONAL SAFETY PRECAUTION, CONTRACTORS ARE INSTRUCTED TO CALL THE SALT RIVER PROJECT AT (602) 236-8888 OR ARIZONA PUBLIC SERVICE AT (602) 371-7171, TO ARRANGE, IF POSSIBLE, TO HAVE THESE LINES DE-ENERGIZED OR RELOCATED WHEN THE WORK REACHES THEIR IMMEDIATE VICINITY. THE COST OF SUCH TEMPORARY ARRANGEMENTS SHALL BE BORNE BY THE CONTRACTOR. A 2 WORKING DAY (48 HOUR) ADVANCE NOTICE MUST BE GIVEN BUT UP TO 60 DAYS LEAD TIME MAY BE REQUIRED FOR RELOCATION OR OTHER ARRANGEMENTS.

**RECLAIMED WATER NOTES:**

- RECLAIMED WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH MAG SECTION 616, CITY SUPPLEMENTS, AND THESE NOTES.
- THE MINIMUM DEPTH OF COVER WITHIN THE RIGHT-OF-WAY OF ARTERIAL STREETS SHALL BE 7', AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- PIPE SEPARATION ALSO SHALL CONFORM TO ARIZONA RULE R18-9-602, PIPELINE CONVEYANCES OF RECLAIMED WATER.
- A REDUCED PRESSURE BACKFLOW DEVICE SHALL BE INSTALLED, AS PART OF THE ORIGINAL SYSTEM, ON A RECLAIMED WATER SYSTEM THAT WILL USE POTABLE WATER AS AN INITIAL SOURCE AND WILL USE RECLAIMED WATER AS A SOURCE LATER. ON SUCH A SYSTEM, CONCURRENT CONNECTIONS SHALL NOT BE MADE AT ANY TIME TO BOTH POTABLE WATER AND RECLAIMED WATER SYSTEMS, REGARDLESS WHETHER ONE OR BOTH SYSTEMS ARE DEVOID OF SUPPLY.
- PRIVATE RECLAIMED WATER LINES SHALL BE INSTALLED IN SLEEVES WHERE THEY CROSS PUBLIC OR PRIVATE RIGHT-OF-WAY. PIPE SLEEVES SHALL BE PIPE MEETING THE REQUIREMENTS FOR CONVEYANCE PIPE AND SHALL BE TWO NOMINAL SIZES LARGER WITH LOCATOR WIRE AND ID. TAPE PER C-408. ENCROACHMENT PERMIT REQUIRED.
- RECLAIMED WATER IRRIGATION SYSTEM SPRINKLER HEADS, VALVE BOXES AND COVERS, AND FLOW CONTROL HANDLES ON VALVES SHALL BE PURPLE.
- THE WORDS "RECLAIMED WATER" SHALL BE STENCILED ON BACKFLOW ASSEMBLIES USING THE COLOR PURPLE OR SHALL BE OTHERWISE BE LEGIBLY MARKED.
- PVC PIPE SHALL NOT BE EXPOSED TO DIRECT ULTRAVIOLET RADIATION (SUNLIGHT) FOR MORE THAN 30 DAYS, WHETHER THE TIME IS CONTINUOUS OR CUMULATIVE. PVC PIPE SHALL BE PROTECTED FROM DIRECT ULTRAVIOLET RADIATION FOR ANY TIME OF EXPOSURE EXCEEDING 30 DAYS. PVC PIPE THAT HAS BEEN DISCOLORED BY EXPOSURE TO ULTRAVIOLET RADIATION IS UNACCEPTABLE.
- VALVES 4" THROUGH 24" SHALL BE GATE VALVES UNLESS NOTED OTHERWISE. EACH VALVE SHALL BE FURNISHED WITH A BAR WELDED TO THE OPERATING NUT IN ACCORDANCE WITH C-406, THEREBY REQUIRING A TOOL WITH A KEY SLOT TO EXERCISE THE VALVE. VALVE BOXES AND COVERS SHALL CONFORM TO C-406.
- NO VALVE, RISER, BOX OR COVER SHALL BE LOCATED BENEATH OR WITHIN A SIDEWALK OR SIDEWALK RAMP.
- CITY RECLAIMED WATER VALVES SHALL BE OPERATED BY CITY OF CHANDLER PERSONNEL ONLY.
- CITY OF CHANDLER WILL FURNISH AND INSTALL WATER METERS WITH PREVAILING COSTS PAID BY THE DEVELOPER.
- METER BOXES AND COVERS SHALL BE SUPPLIED BY THE DEVELOPER AND SHALL BE INSTALLED BY THE CONTRACTOR FACING AWAY FROM THE STREET. METER BOXES FOR METERS 2" AND SMALLER SHALL BE CONCRETE AND SHALL CONFORM TO MAG STD DTL 320. THE INSIDE OF EACH METER BOX SHALL BE PAINTED PURPLE. METER BOX COVERS SHALL BE POLYMER CONCRETE AND SHALL CONFORM TO C-301. METER BOX COVERS SHALL BE CAST WITH THE WORDS "RECLAIMED WATER" IN THE OUTSIDE SURFACE OR HAVE TAGS WITH THE WORDS "RECLAIMED WATER" FIRMLY ATTACHED TO THE OUTSIDE SURFACE. LETTERING SIZE AND FORMAT SHALL BE SIMILAR TO THE LETTERING IN MAG STD DTL 315. TAGS SHALL OTHERWISE MEET THE REQUIREMENTS FOR RECLAIMED WATER VALVE TAGS.
- METER VAULTS SHALL BE IN CONFORMANCE TO C-416. THE INSIDE OF EACH METER VAULT AND METER BOX SHALL BE PAINTED PURPLE. METER VAULT AND METER BOX COVERS SHALL INCLUDE THE WORDS "RECLAIMED WATER" AS REQUIRED FOR METER BOX COVERS ABOVE FOR METERS 2" AND SMALLER. THE CITY OF CHANDLER WATER DISTRIBUTION DIVISION SHALL BE NOTIFIED 24 HOURS BEFORE INSTALLATION AT (480) 782-3700.
- WARNING SIGNS: AREAS IRRIGATED WITH RECLAIMED WATER SHALL BE IDENTIFIED BY SURFACE MOUNTED SIGNS, AT LEAST 12" WIDE BY 9" HIGH, OF C-405 PAGE 11 OF 12. SIGNS SHALL BE PROMINENTLY LOCATED AT ALL SUBDIVISION AND PARK ENTRANCES, IN ALL AREAS SUBJECT TO IRRIGATION, AND AT ALL LAKES AND WATER FEATURES. SIGNS SHALL BE POSTED AT EACH PEDESTRIAN ENTRANCE AND ACCESS POINT TO AN AREA WHERE RECLAIMED WATER IS USED. SIGNS SHALL BE SPACED AT A MAXIMUM INTERVAL OF 100 YARDS, EXCEPT FOR ROADWAY MEDIANS, WHERE SIGNS MAY BE SPACED AT A MAXIMUM INTERVAL OF 300 YARDS.
- RECLAIMED WATER LINES GREATER THAN OR EQUAL TO 4" IN DIAMETER SHALL BE TESTED IN ACCORDANCE WITH THE SAME REQUIREMENTS AS POTABLE WATER LINES. RECLAIMED WATER LINES LESS THAN 4" IN DIAMETER ARE NOT REQUIRED TO BE TESTED. ON A RECLAIMED WATER SYSTEM THAT WILL NOT USE POTABLE WATER AS AN INITIAL SOURCE, RECLAIMED WATER MAY BE USED IN LIEU OF POTABLE WATER TO FILL RECLAIMED WATER PIPE BEING TESTED. DISINFECTION OF THE RECLAIMED WATER MAIN SHALL NOT BE REQUIRED.
- RECLAIMED WATER LINES LARGER THAN TWO (2) INCHES IN DIAMETER SHALL HAVE LOCATOR WIRE INSTALLED PER C-408.

**PAVING NOTES:**

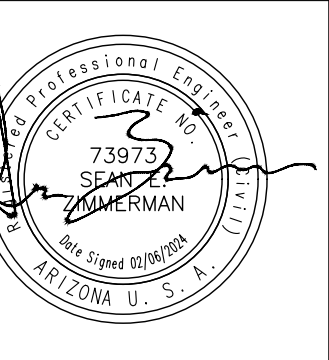
- THE LOCATION OF ALL VALVES MUST BE REFERENCED AT ALL TIMES BY THE CONTRACTOR DURING CONSTRUCTION.
- NO PAVING CONSTRUCTION SHALL BE PERFORMED UNTIL ALL UNDERGROUND UTILITIES WITHIN THE RIGHT-OF-WAY HAVE BEEN COMPLETED.
- THE BASE COURSE WILL NOT BE PLACED ON SUBGRADE UNTIL BASE REQUIREMENTS HAVE BEEN COMPLETED AND ACCEPTED BY THE CITY ENGINEER.
- GUTTERS WILL BE WATER TESTED IN THE PRESENCE OF THE CITY ENGINEER TO INSURE PROPER DRAINAGE PRIOR TO FINAL APPROVAL.
- THE EXACT POINT OF PAVEMENT MATCHING FOR TERMINATION AND OVERLAY MAY BE DETERMINED IN THE FIELD BY THE CITY ENGINEER.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEEP CLEAN OF ALL DIRT AND DEBRIS.
- STREET NAME SIGNS WILL BE INSTALLED BY THE CITY ON DEVELOPER INSTALLED POLES AT THE DEVELOPER'S EXPENSE. POLES SHALL BE PER C-613. PAYMENT WILL BE COLLECTED AT THE TIME A PAVING PERMIT IS ISSUED.
- ALL TRAFFIC CONTROL SIGNS SHALL BE CONSTRUCTED OF HIGH INTENSITY GRADE SHEETING, UNLESS OTHERWISE NOTED.
- ALL STREET SECTIONS, EXCEPT ARTERIALS, SHALL HAVE INSTALLED A PRESERVATIVE SEAL COAT PER MAG SECTION 334 AND SHALL BE AN ASPHALT EMULSION SEALER PER MAG SECTION 718.3. THE SEAL SHALL BE INSTALLED AT THE END OF THE WARRANTY PERIOD, OR AT THE CITY'S OPTION, A FEE MAY BE COLLECTED IN LIEU OF THE APPLICATION.
- ALL CURB-OPENING CATCH BASIN ACCESS COVERS SHALL BE PER MAG STD DTL 536, ALTERNATE COVER. A STORM DRAIN INLET MARKER IN ACCORDANCE WITH C-508 SHALL BE INSTALLED ON THE TOP OF THE CURB AND ALIGNED WITH THE CENTER OF THE INLET.
- PAVEMENT MATCHING AND SURFACING REPLACEMENT SHALL BE IN ACCORDANCE WITH MAG STD DTL 200, MAG SECTION 336 AND SECTION 337. ALL CRACKS AND JOINTS SHALL BE SEALED, UNLESS OTHERWISE DIRECTED BY CITY ENGINEER OR STREET SUPERINTENDENT.



CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
GENERAL NOTES 1  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

Design:CPA	Drawn:CMD	Checked:SEZ	By
Date:08/2024	Wilson Project No.: 22016		
Rev#	Date	Description	

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



XREFS: TB-WE-D, SEAL-SR, SEAL-LUG, SEAL-SEZ

**SIGNING AND STRIPING NOTES:**

1. THE CITY TRANSPORTATION ENGINEER'S OFFICE SHALL BE NOTIFIED 5 BUSINESS DAYS PRIOR TO STARTING ANY SIGNING OR STRIPING WORK AT (480) 782-3454.
2. ALL PAVEMENT MARKINGS, SIGN MATERIALS AND CONSTRUCTION SHALL CONFORM TO ARIZONA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
3. SIGN LOCATIONS AND OFFSETS MAY BE ADJUSTED BY THE CITY TRANSPORTATION ENGINEER TO IMPROVE VISIBILITY.
4. ALL MEDIAN NOSES SHALL BE PAINTED YELLOW WITH REFLECTIVE GLASS BEADS PER C-617.
5. ALL RAISED PAVEMENT REFLECTORS SHALL BE INSTALLED WITH CRAFCO PAVEMENT REFLECTOR ADHESIVE, OR EQUAL.
6. ALL TRAFFIC CONTROL SIGNS, EXCEPT STOP SIGNS, SHALL BE ATTACHED TO STREET LIGHT POLES IF THE POLE IS WITHIN 25 FT. OF SIGN LOCATION AS SHOWN ON THE SIGNING AND STRIPING PLANS.
7. ALL CROSSWALKS, STOP BARS, MINI-SKIPS, TURN ARROWS AND LEFT/RIGHT TURN LANE STRIPING SHALL BE THERMOPLASTIC.
8. ALL TRAFFIC CONTROL SIGNS SHALL BE CONSTRUCTED OF HIGH INTENSITY GRADE SHEETING SCREENED WITH 3-M APPROVED INKS OR EQUIVALENT APPROVED BY THE TRANSPORTATION DIVISION. WARRANTY DOCUMENTS ARE REQUIRED AND SHALL BE SUBMITTED PRIOR TO FINAL JOB ACCEPTANCE.
9. ALL EXISTING SIGNS TEMPORARILY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED FOR REINSTALLATION BY THE CONTRACTOR. ALL EXISTING SIGNS PERMANENTLY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED FOR RETURN TO THE CITY SIGN SHOP.
10. ALL CONFLICTING PAVEMENT MARKINGS WILL BE OBLITERATED BY WATER BLASTING BY THE CONTRACTOR. GRINDING IS NOT PERMITTED.
11. A SEALANT APPROVED BY THE CITY OF CHANDLER STREETS DIVISION SHALL BE APPLIED BY THE CONTRACTOR TO ALL AREAS OF PAVEMENT MARKING OBLITERATION. REFER TO THE LIST OF APPROVED PRODUCTS.
12. THE CITY TRANSPORTATION ENGINEER MAY REQUIRE THE CONTRACTOR TO ADJUST SIGNING AND STRIPING AS NECESSARY.
13. ALL CONFLICTING SIGNAGE SHALL BE REMOVED BY THE CONTRACTOR.
14. ALL CITY SIGNS MUST BE RETURNED TO THE CITY SIGN SHOP.

**UTILITIES LOCATION:**

UTILITIES LOCATION: THE CONTRACTOR, MINIMUM 2 WORKING DAYS (48 HOURS) PRIOR TO PERFORMING UNDERGROUND EXCAVATION, SHALL TELEPHONE THE BLUE STAKE CENTER AT (602) 263-1100 TO OBTAIN FIELD UNDERGROUND UTILITIES LOCATION MARKING. THE CONTRACTOR SHALL UNCOVER AHEAD OF CONSTRUCTION, ALL LINES BEING TIED INTO AND ALL INTERSECTING UTILITIES SHOWN ON THE PLANS OR MARKED BY BLUE STAKE TO VERIFY THEIR LOCATION AND DEPTH. UTILITY SERVICES SHALL BE LOCATED AND PROTECTED BY THE CONTRACTOR. ALL PRECAUTIONS SHALL BE USED WHILE WORKING NEAR ALL UTILITIES, TO AVOID INJURY OR DEATH TO PERSONNEL PROPERTY DAMAGE AND/OR INTERRUPTION OF SERVICE. (SEE OSHA STD 1926-651 (A)).

**ENGINEERS NOTES:**

1. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THE DESIGN DOCUMENTS.
2. ACTUAL NEW PIPE ALIGNMENTS AND DEPTH SHALL BE ADJUSTED IN THE FIELD TO AVOID CONFLICT WITH OTHER UTILITIES. ALL LOCATION ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER AND DOCUMENTED ON THE AS-BUILT DRAWING.
3. MINIMUM COVER FOR PROPOSED AND RELOCATED UTILITIES IS 7'-0".
4. UTILITIES DESIGNATED AS ABANDONED SHALL BE TREATED AS LIVE UTILITIES. EXPOSE UTILITIES AND OBTAIN APPROVAL FROM OWNER OF ABANDONED UTILITY PRIOR TO REMOVAL.
5. IN CASES WHERE CONFLICTS OCCUR BETWEEN THE DRAWINGS OR THE DRAWINGS AND THE SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL CONTROL FOR BID PURPOSES UNLESS QUESTIONED AND ANSWERED IN WRITING DURING THE BID PHASE. SUBMIT QUESTIONS IN WRITING TO ENGINEER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
6. COLD JOINTS BETWEEN PAVEMENT SECTIONS SHALL BE SAWCUT. SAWCUTS SHALL BE MADE TO A MINIMUM DEPTH OF 1 1/2 INCHES AND IN ALL CASES DEEP ENOUGH TO INSURE A NEAT VERTICAL JOINT. PORTLAND CEMENT CONCRETE DESIGNATED TO REMAIN, THAT IS DAMAGED BY THE SAWCUTTING, SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS FOR APPROVAL BY CITY (CITY TRAFFIC INSPECTOR OR CITY ENGINEER) AND IN ACCORDANCE WITH THE TECHNICAL DESIGN MANUAL #7: TRAFFIC BARRICADE DESIGN.
8. ALL PIPE JOINTS SHALL BE FULLY RESTRAINED.
9. ALL VALVES AT TEES SHALL BE FLANGED. ALL IN-LINE VALVES SHALL BE MJ VALVES.
10. EXISTING ACP SHALL BE CUT IN SECTIONS TO ALLOW FOR CONTINUED OPERATION. CONTRACTOR SHALL FIELD VERIFY EXISTING JOINT LOCATIONS AND CONFIRM CUT LOCATIONS WITH ENGINEER.

**MCDOT GENERAL NOTES**

1. ALL WORK SHALL CONFORM TO THE REVISED EDITION OF THE UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION PUBLISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) AS AUTHORIZED AND MODIFIED BY THE MOST CURRENT MCDOT SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND NON-CONFLICTING PROJECT SPECIAL PROVISIONS. ALL WORK MUST ALSO COMPLY WITH ORDINANCE P-36 "MARICOPA COUNTY ORDINANCE ADDRESSING REQUIREMENTS FOR PERMITS TO WORKING RIGHT-OF-WAY WITHIN UNINCORPORATED MARICOPA COUNTY." ANY EXCEPTIONS MUST RECEIVE EXPLICIT APPROVAL FROM MCDOT AND SHALL BE IDENTIFIED ON THE PLANS AS HAVING EXPLICIT APPROVAL FROM MCDOT.
2. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY MCDOT. APPROVAL OF THESE PLANS IS FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT MCDOT FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, THE MCDOT ROADWAY DESIGN MANUAL, OR OTHER APPLICABLE DESIGN STANDARDS.
3. THE MOST CURRENT APPROVED SET OF PLANS SHALL BE ON THE SITE DURING CONSTRUCTION AND AVAILABLE TO MCDOT INSPECTORS.
4. ALL BOX CULVERTS CONSTRUCTED IN THE PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) LATEST DESIGN SPECIFICATIONS AND STANDARDS.
5. CONTRACTOR TO OBTAIN MCDOT PERMITS PRIOR TO CONSTRUCTION WITHIN COUNTY RIGHT-OF-WAY, AND ALL NECESSARY PERMITS FROM OTHER AGENCIES AND FROM LOCAL GOVERNMENTS FOR WORK WITHIN THEIR JURISDICTION.
6. CONTRACTOR SHALL NOTIFY THE ASSIGNED MCDOT INSPECTOR LISTED ON PERMIT AT LEAST 24 HOURS IN ADVANCE OF ANY CONSTRUCTION.
7. CONTRACTOR PERFORMING CONSTRUCTION OR EXCAVATING OPERATIONS IS RESPONSIBLE FOR LOCATING AND RELOCATING ALL UTILITIES IN CONFLICT AT NO EXPENSE TO MARICOPA COUNTY. THE CONTRACTOR SHALL CONTACT ARIZONA 811 PRIOR TO BEGINNING CONSTRUCTION.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS FOR EARTH MOVING FROM MARICOPA COUNTY AIR QUALITY DEPARTMENT'S DUST COMPLIANCE DIVISION PRIOR TO CONDUCTING EXCAVATION OPERATIONS. A COPY OF THE PERMIT AND DUST CONTROL PLAN SHALL BE SUBMITTED TO THE COUNTY ENGINEER PRIOR TO COMMENCEMENT OF ANY EARTHMOVING ACTIVITIES.
9. PRIOR TO CONDUCTING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL OBTAIN FROM THE ARIZONA STATE HISTORICAL PRESERVATION OFFICER RECOMMENDATIONS REGARDING THE NEED FOR CULTURAL RESOURCES (ARCHAEOLOGICAL) CLEARANCE. ALL DISCOVERIES OF HUMAN REMAINS, CULTURAL ARTIFACTS, OR PALEONTOLOGICAL REMAINS SHALL BE REPORTED TO THE ARIZONA STATE MUSEUM AND MCDOT. UPON DISCOVERY, CONTRACTOR SHALL CEASE OPERATIONS IN THE VICINITY OF THE FIND AND PROTECT THE DISCOVER AREA FROM FURTHER DISTURBANCE UNTIL THE FIND CAN BE PROFESSIONALLY INVESTIGATED BY THE ARIZONA STATE MUSEUM AND MCDOT.
10. EXCEPT UNDER EMERGENCY CONDITIONS, ROADS SHALL NOT BE CLOSED FOR CONSTRUCTION ACTIVITY UNLESS PRIOR APPROVAL IS OBTAINED FROM THE MCDOT TRANSPORTATION DIRECTOR.
11. PRIOR TO MOVING OR DESTROYING PROTECTED NATIVE PLANT SPECIES, THE CONTRACTOR SHALL FILE A FORMAL NOTICE OF INTENT WITH THE ARIZONA DEPARTMENT OF AGRICULTURE NATIVE PLANTS.
12. PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK, BASE COURSE AND WEARING SURFACE, A PAVEMENT VERIFICATION REPORT SUBMITTAL IS REQUIRED TO BE SUBMITTED TO MCDOT FOR REVIEW AND APPROVAL. IF SUBGRADE STABILIZATION IS REQUIRED, THE AREA STABILIZED SHALL BE FROM BACK TO SIDEWALK TO BACK OF SIDEWALK AND MATCH THE STABILIZATION DEPTH OF THE PAVEMENT STRUCTURE.
13. ASPHALT MIX DESIGNS SHALL BE SUBMITTED TO MCDOT A MINIMUM OF TWO BUSINESS DAYS PRIOR TO PLACING ANY ASPHALT COURSES (TRENCH WORK EXCLUDED). ASPHALT MIX DESIGNS MUST BE APPROVED PRIOR TO PAVING ACTIVITIES. ALL PAVED TURNOUTS SHALL HAVE THE SAME ASPHALT AND BASE REQUIREMENTS AS THE ADJACENT ROADWAY UNLESS NOTED OTHERWISE.
14. ALL ASPHALT CONCRETE PAVEMENT OF LOCAL AND MINOR COLLECTOR ROADS WITH A LONGITUDINAL GRADE LESS THAN 5% SHALL RECEIVE A PRESERVATIVE SEAL ("FILLED" ASPHALT SEALER) IN ACCORDANCE WITH SECTIONS 334 AND 718.3 OF THE MAG UNIFORM STANDARD SPECIFICATIONS.
15. EXCEPT FOR ARAC MIXES, ALL OTHER AC MIXES SHALL BE SUPERPAVE/GYRATORY TYPE UNLESS APPROVED BY MCDOT. AC MIX DESIGN USED ON LOCAL AND MINOR COLLECTOR STREETS SHALL BE FOR LOW TRAFFIC CONDITION. NOMINAL SIZE TO THICKNESS RATION SHALL NOT EXCEED 1:3. THE NOMINAL SIZE DESIGNATION FOR THE SURFACE COURSE ON URBAN ROADWAYS SHALL BE A 1/2" MIX, UNLESS APPROVED BY MCDOT.
16. ALL COMPACTION AND BACKFILL WITHIN COUNTY RIGHT-OF-WAY SHALL CONFORM TO THE MCDOT SUPPLEMENT TO MAG SPECIFICATION SECTION 601. BACKFILL UNDER EXISTING PAVEMENT, CURB AND GUTTER, ROADWAY SHOULDERS, AND UNPAVED ROADWAYS SHALL CONSIST OF ONE-HALF (1.2) OR ONE SACK CLSM. UNPAVED ROADWAY AREAS INCLUDE THE TRAVELED WAY PLUS FIVE FEET BEYOND THE TRAVELED WAY.
17. ALL STRUCTURES, SUCH AS MANHOLES, VALVE BOX AND COVERS, AND MONITORING WELLS MUST BE MARKED WITH AT LEAST TWO REFLECTIVE FLEXIBLE POSTS WHEN STRUCTURES ARE LOCATED OUTSIDE THE TRAVELED WAY AND WITHIN THE RIGHT-OF-WAY (APPLIES ONLY WHEN THERE IS NO CURB). ALL CLEAR ZONE HAZARDS SHALL BE MITIGATED IN A MANNER APPROVED BY MCDOT AT NO COST TO THE COUNTY.
18. PAVEMENT WIDENING AND PAVEMENT REPLACEMENT SHALL CONFORM TO THE REQUIREMENTS OF MAG SPECIFICATION SECTION 336 AND THE MCDOT SUPPLEMENT THERETO. PAVEMENT CUTS SHALL NOT BE LOCATED WITHIN A LANE WHEEL PATH. THE LANE WHEEL PATH IS THE ENTIRE LANE WIDTH EXCEPT THE AREA WITHIN ONE FOOT OF A LANE LINE STRIPE AND EXCEPT THE CENTER TWO FEET OF THE TRAVEL LANE.

19. ALL EXISTING PAVEMENT MARKINGS, TRAFFIC SIGNS AND SIGNAL EQUIPMENT TO BE REMOVED, REPLACED, RELOCATED OR REPAIRED DUE TO CONTRACTOR'S WORK WILL BE DONE BY THE CONTRACTOR AT THEIR EXPENSE. ALL SALVAGED SIGNS SHALL BE DELIVERED TO THE TRAFFIC OPERATIONS BUILDING AT 2909 W. DURANGO ST. ARRANGEMENTS CAN BE MADE FOR DELIVERY BY CALLING (602) 506-8662. ALL NEW STREET NAME SIGNS SHALL BE PROVIDED AND INSTALLED BY THE PERMITEE AT NO EXPENSE TO MARICOPA COUNTY.
20. ALL PERMITTED CONSTRUCTION IS SUBJECT TO INSPECTION AND IS REQUIRED TO MEET ALL APPLICABLE STANDARDS PRIOR TO THE RELEASE OF THE CORRESPONDING BOND.
21. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS PER MAG 107.9. DISPOSAL OF ALL WASTE MATERIAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
22. CHIPPED, CRACKED, OR IMPRINTED CUB, GUTTER, OR SIDEWALK IS NOT PERMITTED. CONCRETE PATCHING OF CURB, GUTTER, AND SIDEWALK IS NOT PERMITTED.
23. THE PERMITEE'S ENGINEER OF RECORD IS REQUIRED TO CERTIFY SUBDIVISION CONSTRUCTION IN ACCORDANCE WITH THE MCDOT SUBDIVISION INSPECTION GUIDELINES.

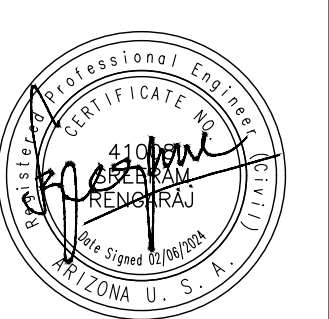
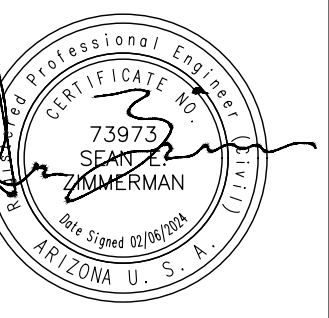
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CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
GENERAL NOTES 2  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

Design:CPA	Drawn:CMD	Checked:SEZ
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Rev#	Date	Description
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APPROVED FOR COORDINATION  
PRELIMINARY PLAT FOR SCNITZER COMMERCE PARKS PAD PLT23-0011

*Grant Hirnise*  
REGISTERED CIVIL ENGINEER SIGNATURE  
Grant Hirnise  
PRINTED NAME  
6-7-24  
DATE

63946  
REGISTRATION NUMBER  
6-30-26  
EXPIRATION DATE

APPROVED FOR COORDINATION  
OFFSITE IMPROVEMENT PLANS SCHRADER FARMS BUSINESS PARK - PHASE 1 CIV21-0127

*Jorge Ortiz*  
REGISTERED CIVIL ENGINEER SIGNATURE  
JORGE ORTIZ  
PRINTED NAME  
07/08/24  
DATE

63339  
REGISTRATION NUMBER  
12/31/25  
EXPIRATION DATE



XREFS: TB=WE-D, SEAL=SR, SEAL=UNG, SEAL=SEZ

**GENERAL SYMBOLS**

	CP1	SURVEY CONTROL POINT
	XXXX.XX	PROPOSED GROUND ELEVATION
	X 2807.70	EXISTING SPOT ELEVATION
	1200.00	NEW ELEVATION (SECTION)
	OR WS 1280.00	WATER SURFACE ELEVATION
	SB-3	SOIL BORE LOCATION
	SECTION NUMBER	
	SHEET ON WHICH SECTION IS LOCATED	
	DETAIL NUMBER	
	SHEET ON WHICH DETAIL IS LOCATED	
		TRAFFIC SIGNAL
		LIGHT POLE
		MANHOLE
		VALVE BOX
	FH	FIRE HYDRANT
		TREE/SHRUBBERY
		STRUCTURE/BUILDING
		HEADWALL
		FLAT COVER PANEL
		CULVERT
		SIGN
		POWER POLE
		CANOPY SUPPORT
		GUY WIRE
		YARD HYDRANT
		GRADE BREAK
		CATCH BASIN

**LINE LEGEND**

	NEW CONSTRUCTION (SOLID)
	EXISTING CONSTRUCTION (SCREENED BACK)
	SURVEY CONTROL LINE
	EXTENTS OF GRADING
	MONUMENT LINE/BASELINE
	CENTERLINE
	CUTTING PLANE OR SECTION LINE
	RIGHT-OF-WAY LINE
	EASEMENT LINE
	PROPERTY LINE
	NEW UTILITY
	EXISTING UTILITY
	FUTURE FACILITY
	HIDDEN LINE
	PROPOSED INDEX CONTOUR
	EXISTING INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	DRAINAGE FLOW/SWALE LINE
	DIRECTION OF FLOW
	MATCH LINE
	BREAK LINE
	PROPOSED CHAINLINK FENCE
	EXISTING CHAINLINK FENCE
	PERCENT SLOPE
	EXISTING DIRT ROAD
	PROPOSED DIRT ROAD
	EXISTING ELECTRICAL
	EXISTING PAVED ROAD WITH CURB
	LANE MARKING
	FIBER OPTICS
	OVER HEAD ELECTRIC
	ELECTRICAL LINE
	TELEPHONE LINE
	EXISTING SRP DITCH
	PAVEMENT CUT LINE

**RYAN RD:**

1. FUTURE ROAD CLASSIFICATION: LOCAL
2. TOTAL R/W LIMITS: 66'
3. CLEAR ZONE DISTANCE: 10'
4. POSTED SPEED: 35 MPH
5. AVERAGE DAILY TRAFFIC: NO COUNTS AVAILABLE
6. CONTROL POINT: SEE SHEET G-6

**COORDINATE POINT LEGEND**

CODE	DESCRIPTION
⊗ F	FINISH GRADE
⊗ P	POINT OF TANGENT/PIPE/OTHERS
⊗ S	SITE

**PIPE JOINTS**

	PIPE IN SECTION
	PIPE CONTINUATION
	FLANGED (FLG)
	MECHANICAL JOINT (MJ) OR FASTITE (FST)
	WELDED OR SOCKET
	GROOVE TYPE COUPLING
	FLEXIBLE COUPLING
	FLANGE FLEXIBLE COUPLING
	PUSH ON (PO) OR BELL AND SPIGOT (DIP)
	PUSH ON OR BELL AND SPIGOT (PVC /COPPER)

**HATCH LEGEND**

	ASPHALT - SECTION
	CMU BLOCK
	CONCRETE
	EARTH
	GRATE - PLAN
	GRATE - SECTION
	GROUT
	PAVEMENT - PLAN
	REMOVAL/DEMOLITION
	RIPRAP - PLAN
	DECOMPOSED GRANITE

**SHEET INDEX**

SHEET	GENERAL
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3	G-3 GENERAL NOTES 2
4	G-4 LEGEND, SYMBOLS AND ABBREVIATIONS
5	G-5 KEY MAP 1
6	G-6 SURVEY CONTROL MAP
<b>CIVIL</b>	
7	C-1 PLAN AND PROFILE 1
8	C-2 PLAN AND PROFILE 2
9	C-3 PLAN AND PROFILE 3
10	C-4 PLAN AND PROFILE 4
11	C-5 PLAN AND PROFILE 5
12	C-6 PLAN AND PROFILE 6
13	C-7 PLAN AND PROFILE 7
14	C-8 PLAN AND PROFILE 8
15	C-9 PLAN AND PROFILE 9
16	C-9A PLAN AND PROFILE 9A
17	C-10 PLAN AND PROFILE 10
18	C-10A PLAN AND PROFILE 10A
19	C-11 PLAN AND PROFILE 11
20	C-11A PLAN AND PROFILE 11A
21	C-12 PLAN AND PROFILE 12
22	C-13 PLAN AND PROFILE 13
23	C-14 PLAN AND PROFILE 14
24	C-14A PLAN AND PROFILE 14A
25	C-15 PLAN AND PROFILE 15
<b>MECHANICAL</b>	
26	M-1 MISCELLANEOUS DETAILS 1
27	M-2 MISCELLANEOUS DETAILS 2

**GENERAL VALVE SYMBOLS**

GATE VALVE (GENERIC)		
BALL VALVE		
PLUG VALVE		
BUTTERFLY VALVE (FLANGED)		
BUTTERFLY VALVE (WAFER)		
CHECK VALVE		
HOSE BIBB		

**ABBREVIATIONS**

ABC	AGGREGATE BASE COURSE	MH	MANHOLE
AC	AGGREGATE COURSE	MJ	MECHANICAL JOINT
CJ	CONSTRUCTION JOINT	P	PURGE
CLS	CHLORINE SOLUTION	PAD	PAD ELEVATIONS
CMU	CONCRETE MASONRY UNIT	R	RADIUS
COC	CITY OF CHANDLER COMMUNICATIONS	RW	RECLAIMED WATER
COMM	COMMUNICATIONS	SD	STORM DRAIN
COP	COPPER PIPE	SRP	SALT RIVER PROJECT
CPVC	CHLORINATED POLYVINYL CHLORIDE	SS	SANITARY SEWER
D	DRAIN	T	TELEPHONE
DIP	DUCTILE IRON PIPE	TC	TOP OF CURB
E	ELECTRICAL	TOP	TOP OF PIPE
EDB	ELECTRICAL DUCTBANK	TYP	TYPICAL
EL	ELEVATION	W	POTABLE WATER
EP	EDGE OF PAVEMENT		
FF	FINISH FLOOR		
FG	FINISHED GRADE		
FCO	FLOOR CLEANOUT		
FD	FLOOR DRAIN		
FO	FIBER OPTIC		
G	GROUND ELEVATION		
GB	GRADE BREAK		
HWE	HIGH WATER ELEVATION		
INV	INVERT		
IRR	IRRIGATION		
LCS	LOW CARBON STEEL		
LF	LINEAL FOOT		
MAG	MARICOPA COUNTY ASSOCIATION OF GOVERNMENTS		

CALL AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN EXCAVATION.

**ARIZONA 811**  
Arizona Blue Stake, Inc.

DIAL 811 OR 1-800-STAKE-IT (782-5348)  
IN MARICOPA COUNTY: (602)263-1100

**UTILITY COORDINATION**

ALL MATERIALS COMING INTO CONTACT WITH POTABLE WATER MUST MEET NSF STANDARD 60 AND 61 IN ACCORDANCE WITH AAC 18-4-213

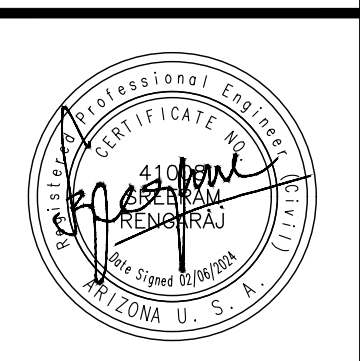
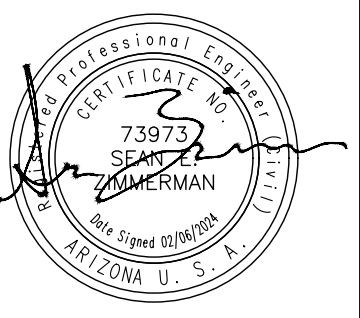
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CITY OF CHANDLER  
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RECLAIMED WATER TRANSMISSION MAIN  
LEGEND, SYMBOLS, AND ABBREVIATIONS  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

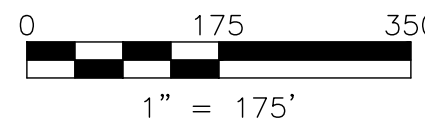
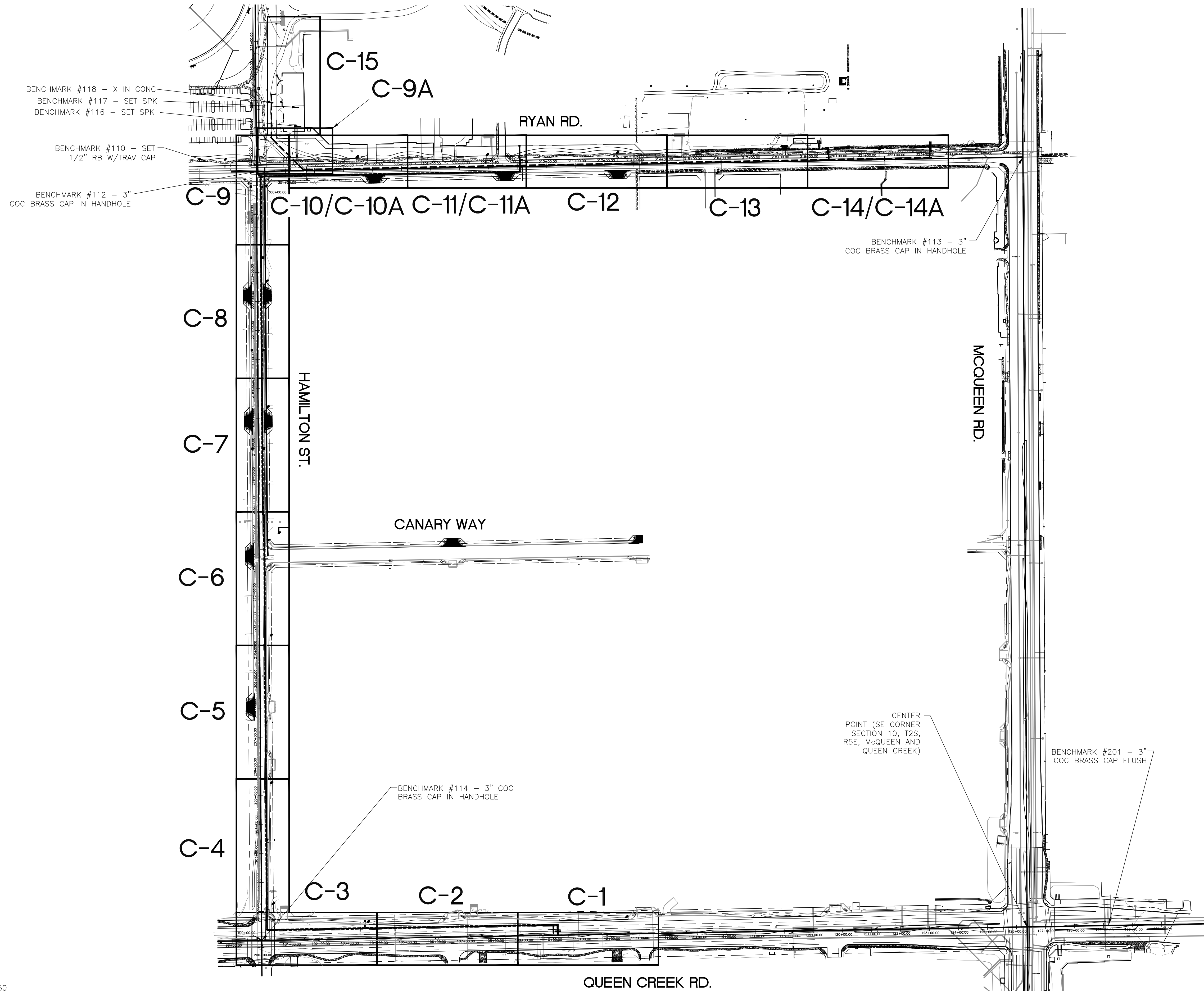
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XREFS: TB=WE-D, SEAL=SR, SEAL=UNG, SEAL=SEZ

REFS: TB=WE-D, XC=YARD PIPING, XC=UTILITY, XC=SITE, SEAL=SR, SEAL=UKG, C=YARD PIPING, BASE, C=SITE, WALL 11 & 12, C=Site, SEAL=SEZ



Call at least two full working days before you begin excavation.

**ARIZONA 811**  
Arizona One Stop, Inc.

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In Maricopa County: (602) 263-1100

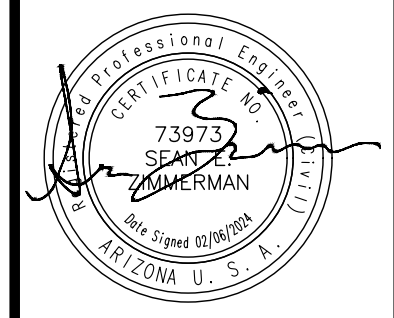
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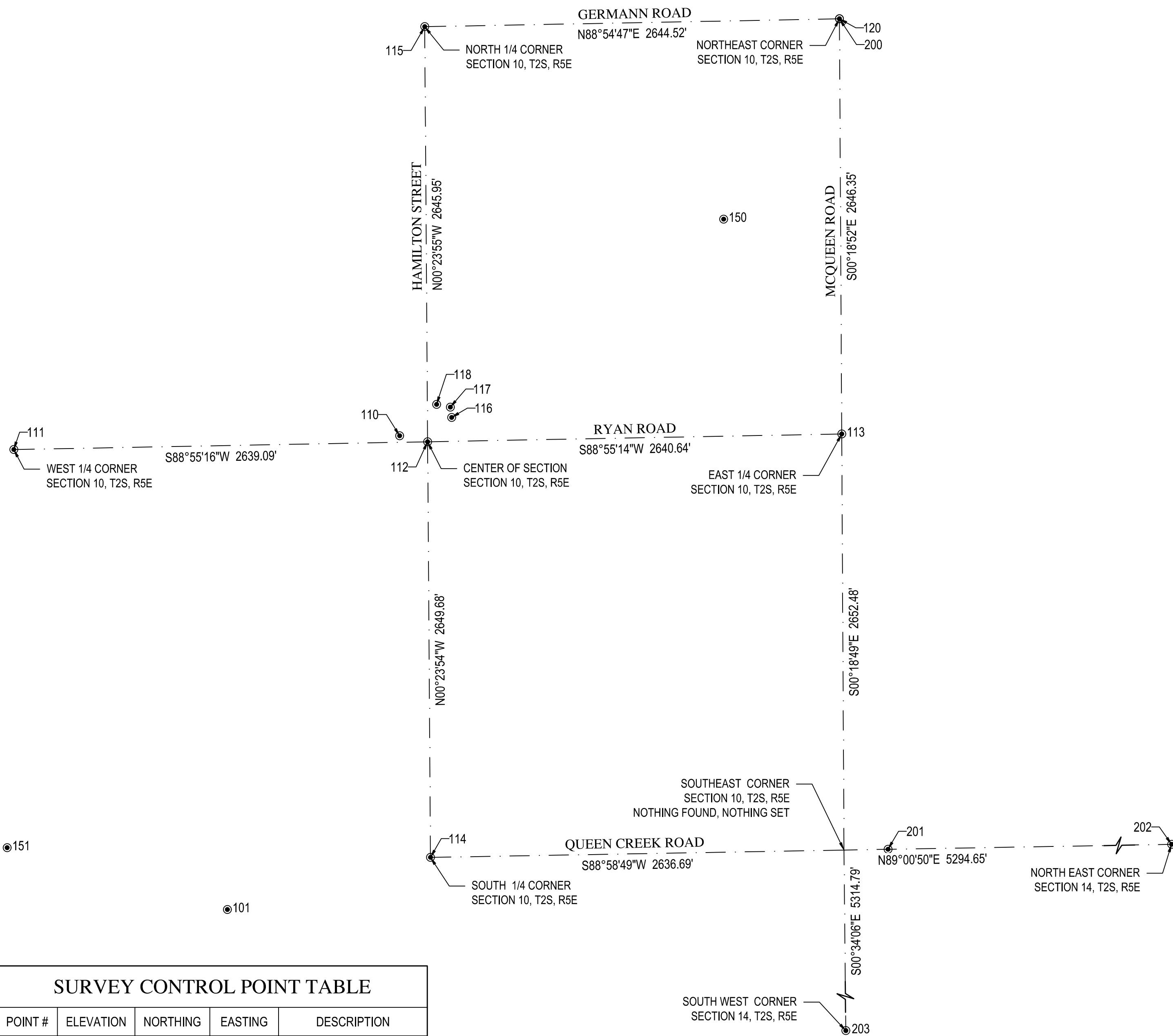
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ENGINEERS

CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
KEYMAP  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

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**SURVEY CONTROL DATA**

The horizontal datum for this survey is based on information obtained from the National Geodetic Survey (NGS) website "www.ngs.noaa.gov", on 09/22/2016.

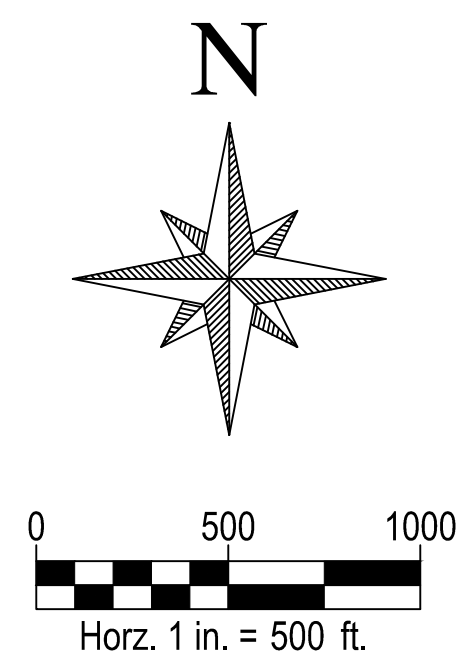
Projection: Arizona Central (202) Zone, NAD 83, (Epoch 2010)  
 Datum: GRS-80  
 Units: International Feet  
 Geoid Model: 12A

Control point: N 522  
 PID: DU2364  
 Latitude: N33°16'17.68783"  
 Longitude: W111°48'55.29162"  
 Ellipsoid Height: 345.003 (Meters)  
 Description: The station is located at the Chandler Municipal Airport, on the east DU2364' side of Airport Boulevard, on the north side of the parking lot 0.2 kilometers (0.10 miles) south from Ryan Road. Ownership - City of Chandler. The mark is outside of the airport perimeter fence. Airport manager is Greg Chenoweth, 2380 South Stinson Way, Chandler, Arizona 85249, phone 602-786-2370. To reach from the junction of Interstate 10 (Exit 164), State Highway 347 (Maricopa Road) and Queen Creek Road on the south side of Chandler, go east on Queen Creek Road for 12.1 kilometers (7.50 miles) passing State Highway 87 (Arizona Avenue) at 10.3 kilometers (6.40 miles) to Airport Boulevard on left. Turn left and go northerly for 1.3 kilometers (0.80 miles) to the northerly parking lot entrance on right which is 0.2 kilometers (0.10 miles) south from Ryan Road and the station ahead on right. The mark is the punch at top center of an un-sleeved stainless steel rod driven to DU2364' refusal at a record depth of 6.0 meters (19.7 feet) recessed 12 centimeters below ground level encased in a 12.7 centimeters (5 inches) diameter pvc pipe with NGS logo cap surrounded with concrete. The concrete and logo cap are flush with the ground.

Modified to ground at (grid) N: 825660.108, E: 728274.060, using a scale factor of 1.0001529671.

Horizontal adjustment: None  
 Horizontal rotation: None

The vertical datum for this survey is based on City of Chandler Benchmark 40A, a City of Chandler brass cap in handhole at the intersection of Tumbleweed Park Road and Pioneer Parkway, 1300 feet south of Germann Road and 700 feet west of McQueen Road, having an elevation of 1224.41, City of Chandler NAVD88 datum.



**SURVEY CONTROL POINT TABLE**

POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
100	1230.04	826355.72	730963.32	NGS DU2364
101	1217.37	822628.57	724357.07	NGS DU2361
110	1219.12	825648.88	725455.67	SET 1/2" RB W/TRAV CAP
111	1215.00	825560.90	722995.30	3" BCH COC
112	1219.38	825610.59	725633.92	3" BCH COC
113	1227.25	825660.33	728274.09	3" BCH COC
114	1219.98	822960.97	725652.34	3" BCH COC
115	1217.39	828256.47	725615.51	3" BCH COC
116	1221.49	825765.52	725786.83	SET SPK
117	1221.71	825831.05	725778.39	SET SPK
118	1220.44	825848.31	725690.93	X IN CONC
120	1223.39	828306.74	728259.58	3" BCH COC 1.0' DN
150	1224.41	827029.53	727521.27	3" BCH COC BM
151	1215.43	823023.10	722952.86	3" BCH COC BM 43A
200	1223.56	828306.63	728259.56	3" BCH COC
201	1228.77	823012.62	728569.01	3" BCH COC
202	1240.96	823099.00	733582.47	3" BCH COC
203	1229.78	817693.36	728341.34	3" BCH COC

**SURVEY CONTROL DATA**

THIS SURVEY WAS PERFORMED UNDER MY DIRECTION DURING THE MONTH OF JUNE 2023, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BRIAN J. DIEHL, RLS  
 WOOD, PATEL & ASSOCIATES, INC.  
 1630 SOUTH STAPLEY DRIVE - SUITE 219  
 MESA, ARIZONA 85204  
 (480) 834-3300  
 SURVEYOR@WOODPATEL.COM

1620 West Fountainhead Pkwy  
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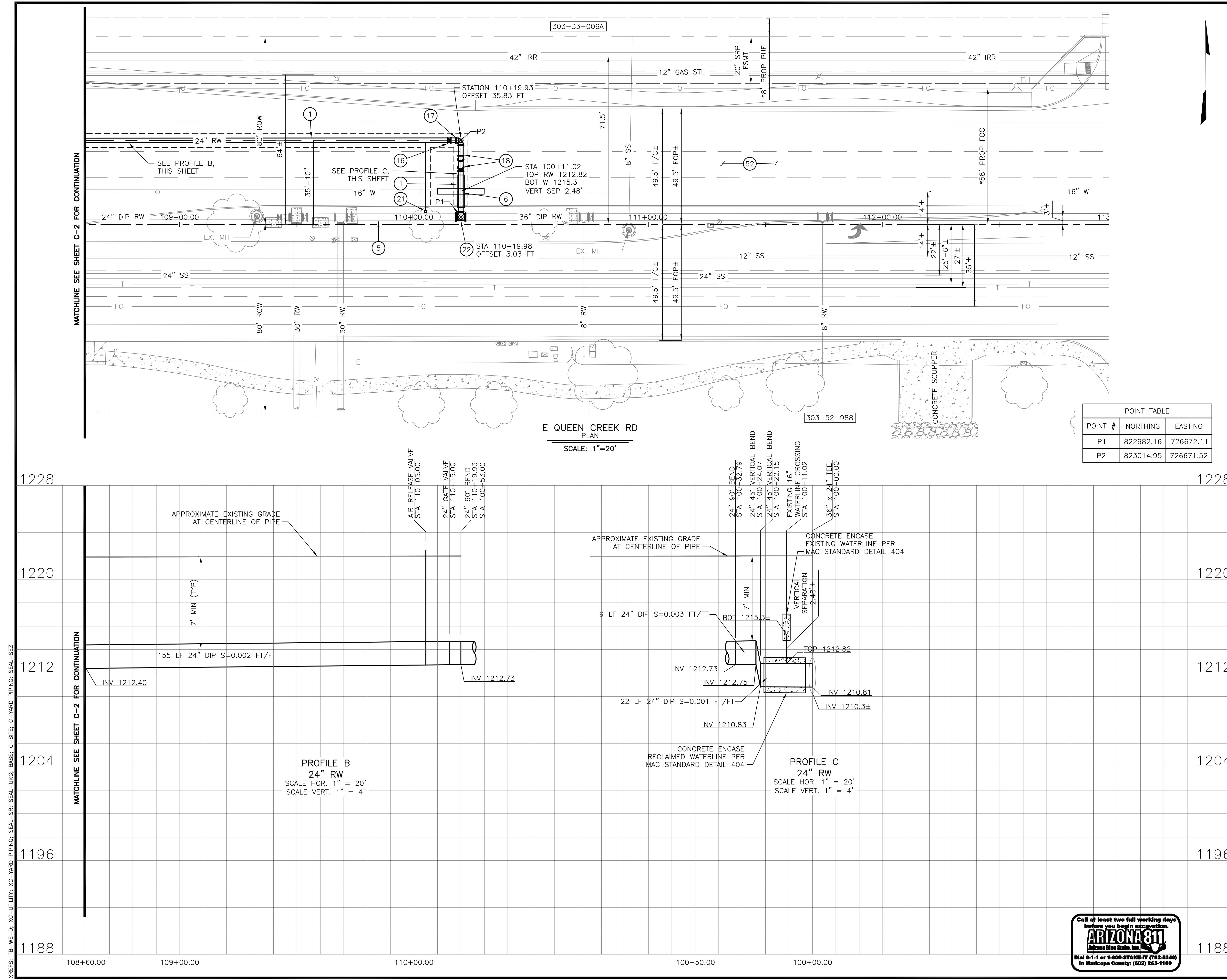
CITY OF CHANDLER  
 RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
 RECLAIMED WATER TRANSMISSION MAIN  
 CITY PROJECT NO. WW2206.201  
 WILSON PROJECT NO. 22016

Design:	Checked:	Drawn:	By
Date: 08/2024	Wilson Project No.: 22016		
Rev#	Date	Description	

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XREFS: 455P-CMUT, SEAL-SR, SEAL-LJG



POINT TABLE		
POINT #	NORTHING	EASTING
P1	822982.16	726672.11
P2	823014.95	726671.52

- ### KEYED NOTES
- 24" DIP RECLAIMED WATERLINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
  - EXISTING 36" RECLAIMED WATERLINE
  - EXISTING 16" WATERLINE CROSSING. PROTECT IN PLACE
  - 24" GATE VALVE INSTALLED IN VALVE VAULT PER CITY OF CHANDLER STANDARD DETAIL C-320
  - 24" 90° BEND, FULLY RESTRAINED MJ FITTING
  - 24" 45° BEND, FULLY RESTRAINED
  - 2" AIR RELEASE VALVE PER CITY OF CHANDLER STANDARD DETAIL C-319 PER DETAIL 105 ON SHEET M-2
  - TIE-IN TO EXISTING 36" RECLAIMED WATERLINE WITH 24" x 36" CUT-IN TEE PER DETAIL 103 ON SHEET M-2
  - PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING

- ### GENERAL NOTES:
- CONTRACTOR SHALL MAINTAIN A 2' MINIMUM VERTICAL CLEARANCE BETWEEN UTILITY CROSSINGS. IF SEPARATION DOES NOT MEET MINIMUM REQUIREMENTS, WET UTILITY ENCASUREMENT SHALL BE REQUIRED PER MAG STD DTL 404.
  - THE MINIMUM DEPTH OF COVER UNDER PAVED STREETS SHALL BE 7' MINIMUM.
  - \*\*: PROPOSED BY OTHERS; REFER TO OFFSITE IMPROVEMENTS PLANS - SCHRADER FARMS BUSINESS PARK - PHASE 1 CIV21-0127, SCHNITZER COMMERCE PARK PRELIMINARY PLAT PLANS - PLT21-0011, RYAN ROAD IMPROVEMENTS UNION PACIFIC RR TO MCQUEEN ROAD - CIV22-0175.
  - CONTRACTOR SHALL MAINTAIN A 1.5' MINIMUM HORIZONTAL CLEARANCE BETWEEN CONCRETE ENCASMENT AND PIPE JOINT
  - ALL IRRIGATION SYSTEMS SHALL BE RESTORED TO FULLY FUNCTIONING STATUS. ANY IRRIGATION LOCATED BENEATH ASPHALT OR CONCRETE SHALL BE SLEEVED WITH SCHEDULE 40 PVC TWO (2) NOMINAL SIZES LARGER.
  - ALL TREES AND VEGETATION IMPACTED BY THE CONSTRUCTION SHALL BE REPLACED WITH THE SAME SIZE AND TYPE AT A LOCATION DETERMINED BY THE CITY.

- ### SURVEY NOTES:
- LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS. BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT AND ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THE WORK AND AVOIDING DAMAGE TO SAME. LANDSCAPE IRRIGATION LINES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY LANDSCAPE IRRIGATION LINES DAMAGES DURING CONSTRUCTION.
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RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 1  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

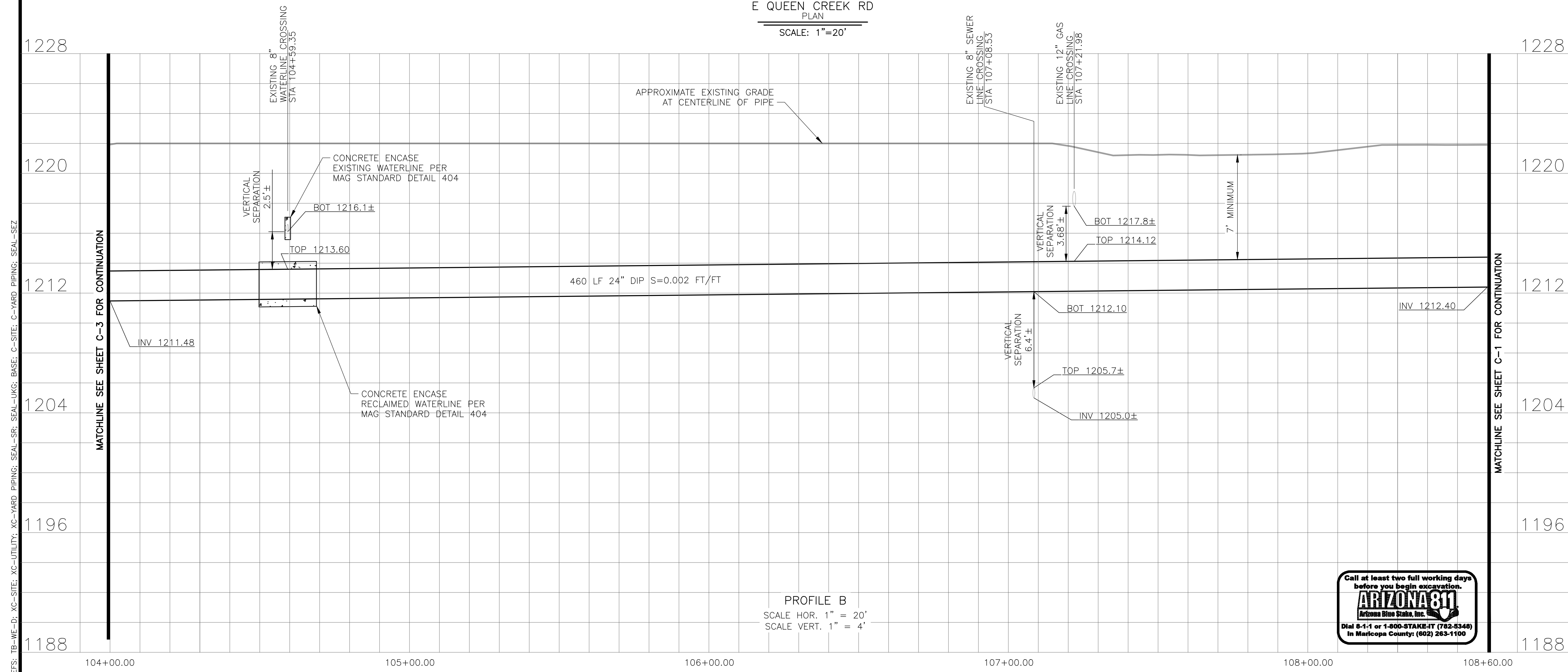
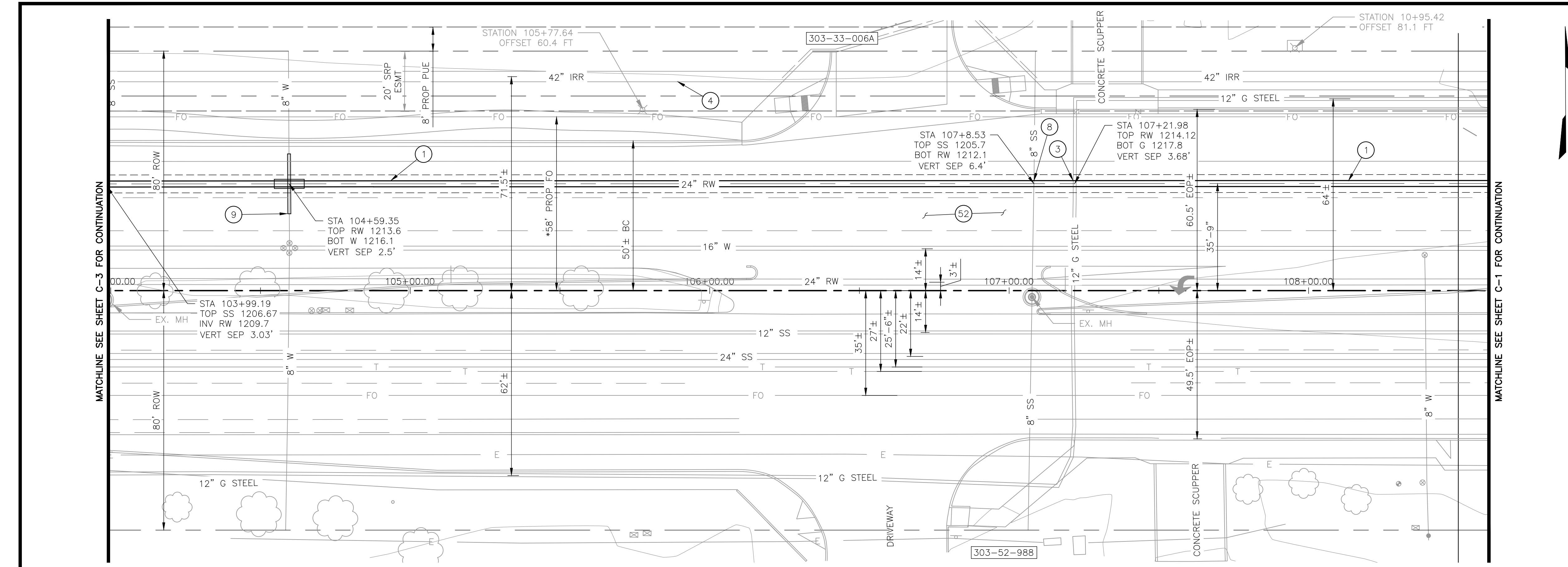
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Professional Engineer  
73873  
SEAN E. ZIMMERMAN  
Arizona U.S.A.

Professional Engineer  
41008  
SREERAM RENGARAJAN  
Arizona U.S.A.

Sheet No. C-1



- ### KEYED NOTES
- 24" DIP RECLAIMED WATERLINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
  - CAUTION: EXISTING 12" GAS LINE CROSSING. PROTECT IN PLACE
  - EXISTING 42" IRR LINE
  - EXISTING 8" SANITARY SEWER LINE CROSSING. PROTECT IN PLACE
  - EXISTING 8" WATER LINE CROSSING. PROTECT IN PLACE
  - PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING

- ### GENERAL NOTES:
- CONTRACTOR SHALL MAINTAIN A 2' MINIMUM VERTICAL CLEARANCE BETWEEN UTILITY CROSSINGS. IF SEPARATION DOES NOT MEET MINIMUM REQUIREMENTS, WET UTILITY ENCASUREMENT SHALL BE REQUIRED PER MAG STD DTL 404.
  - THE MINIMUM DEPTH OF COVER UNDER PAVED STREETS SHALL BE 7' MINIMUM.
  - "\*": PROPOSED BY OTHERS; REFER TO OFFSITE IMPROVEMENTS PLANS - SCHRADER FARMS BUSINESS PARK - PHASE 1 - CIV21-0127, SCHNITZER COMMERCE PARK PRELIMINARY PLAT PLANS - PLT21-0011, RYAN ROAD IMPROVEMENTS UNION PACIFIC RR TO MCQUEEN ROAD - CIV22-0175.
  - CONTRACTOR SHALL MAINTAIN A 1.5' MINIMUM HORIZONTAL CLEARANCE BETWEEN CONCRETE ENCASUREMENT AND PIPE JOINT
  - ALL IRRIGATION SYSTEMS SHALL BE RESTORED TO FULLY FUNCTIONING STATUS. ANY IRRIGATION LOCATED BENEATH ASPHALT OR CONCRETE SHALL BE SLEEVED WITH SCHEDULE 40 PVC TWO (2) NOMINAL SIZES LARGER.
  - ALL TREES AND VEGETATION IMPACTED BY THE CONSTRUCTION SHALL BE REPLACED WITH THE SAME SIZE AND TYPE AT A LOCATION DETERMINED BY THE CITY.

- ### SURVEY NOTES:
- LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS. BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT AND ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THE WORK AND AVOIDING DAMAGE TO SAME. LANDSCAPE IRRIGATION LINES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY LANDSCAPE IRRIGATION LINES DAMAGES DURING CONSTRUCTION.
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  - NEW CONSTRUCTION AND DEMOLITION OPERATIONS SHALL BE SCHEDULED TO PROVIDE THE CITY WITH MINIMUM DOWNTIME PERIODS FOR ACTIVE FACILITY OPERATIONS. SEE SPECIFICATIONS FOR SEQUENCE OF CONSTRUCTION AND OTHER REQUIREMENTS

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RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 2  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

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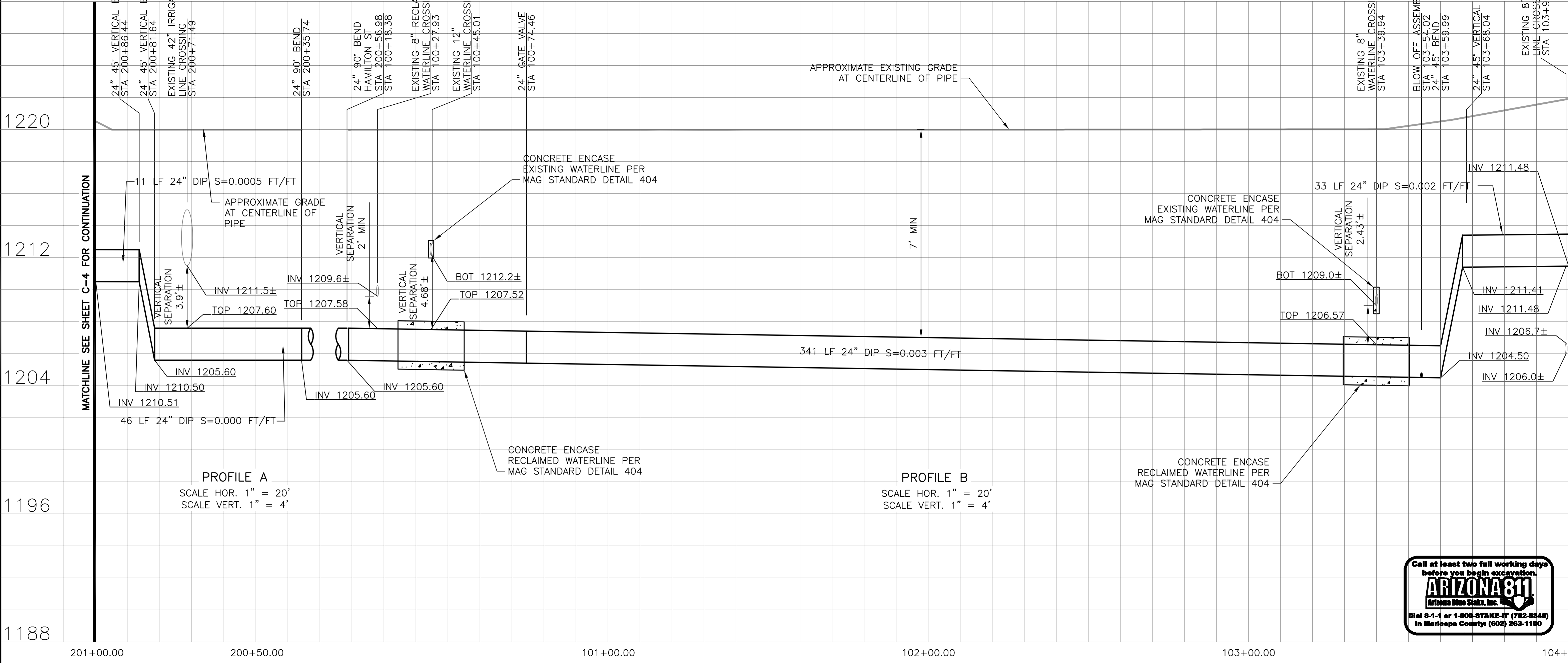
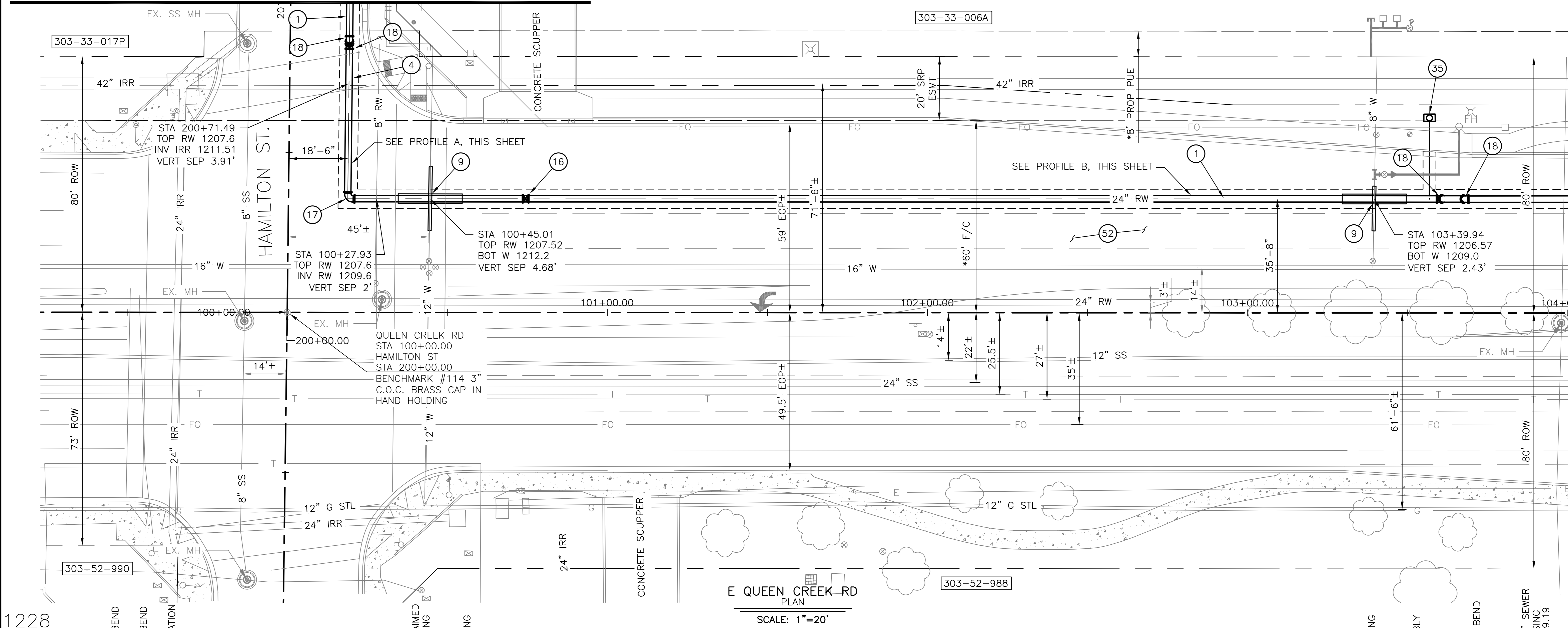
Professional Engineer  
73973  
SEAN J. SUMNER  
ARIZONA U.S.A.

Professional Engineer  
41000  
ARIZONA U.S.A.

Sheet No. C-2



MATCHLINE SEE SHEET C-4 FOR CONTINUATION



MATCHLINE SEE SHEET C-2 FOR CONTINUATION

MATCHLINE SEE SHEET C-2 FOR CONTINUATION

### KEYED NOTES

- 1 24" DIP RECLAIMED WATERLINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
- 4 EXISTING 42" IRR LINE CROSSING. PROTECT IN PLACE
- 9 EXISTING 8" WATER LINE CROSSING. PROTECT IN PLACE.
- 16 24" GATE VALVE INSTALLED IN VALVE VAULT PER CITY OF CHANDLER STANDARD DETAIL C-320
- 17 24" 90° BEND, FULLY RESTRAINED MJ FITTING
- 18 24" 45° BEND, FULLY RESTRAINED
- 35 BLOW OFF ASSEMBLY PER DETAIL 105 ON SHEET M-2
- 52 PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING

### GENERAL NOTES:

1. CONTRACTOR SHALL MAINTAIN A 2' MINIMUM VERTICAL CLEARANCE BETWEEN UTILITY CROSSINGS. IF SEPARATION DOES NOT MEET MINIMUM REQUIREMENTS, WET UTILITY ENCASEMENT SHALL BE REQUIRED PER MAG STD DTL 404.
2. THE MINIMUM DEPTH OF COVER UNDER PAVED STREETS SHALL BE 7' MINIMUM.
3. "P": PROPOSED BY OTHERS; REFER TO OFFSITE IMPROVEMENTS PLANS - SCHRADER FARMS BUSINESS PARK - PHASE 1 CIV21-0127, SCHNITZER COMMERCE PARK PRELIMINARY PLAT PLANS - PLT21-0011, RYAN ROAD IMPROVEMENTS UNION PACIFIC RR TO MCQUEEN ROAD - CIV22-0175.
4. CONTRACTOR SHALL MAINTAIN A 1.5' MINIMUM HORIZONTAL CLEARANCE BETWEEN CONCRETE ENCASEMENT AND PIPE JOINT
5. ALL IRRIGATION SYSTEMS SHALL BE RESTORED TO FULLY FUNCTIONING STATUS. ANY IRRIGATION LOCATED BENEATH ASPHALT OR CONCRETE SHALL BE SLEEVED WITH SCHEDULE 40 PVC TWO (2) NOMINAL SIZES LARGER.
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### SURVEY NOTES:

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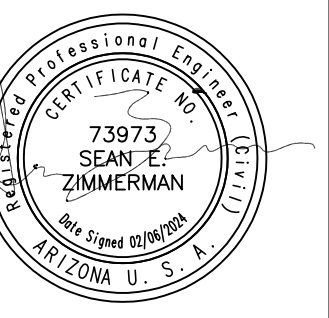
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CITY OF CHANDLER  
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 RECLAIMED WATER TRANSMISSION MAIN  
 PLAN AND PROFILE 3  
 CITY PROJECT NO. WW2206.201  
 WILSON PROJECT NO. 22016

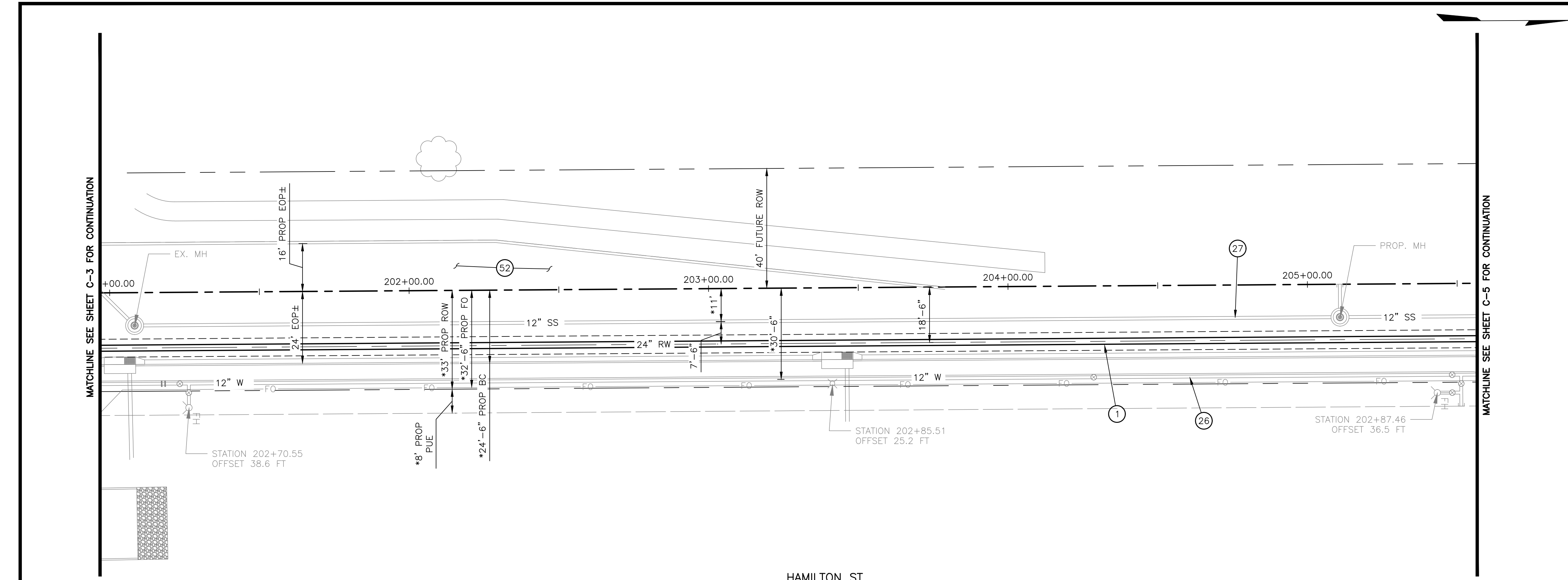
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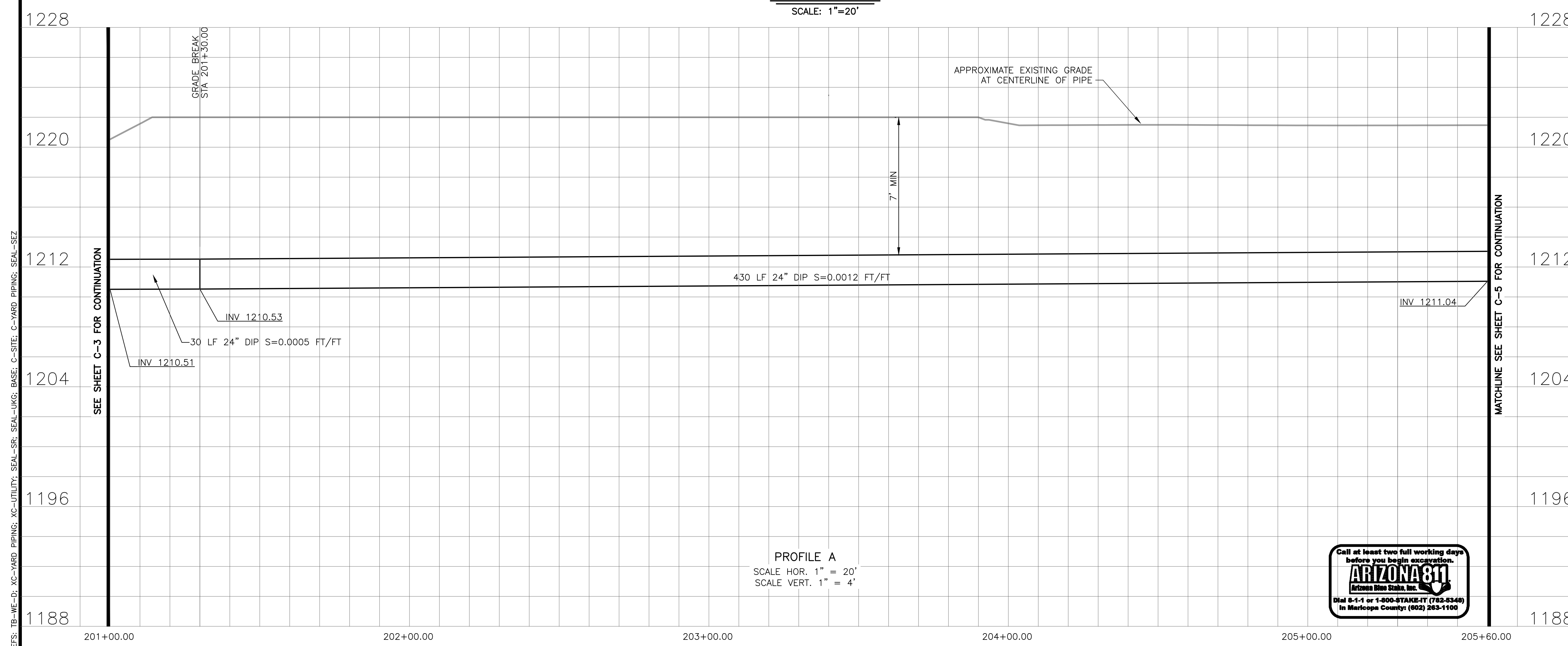


Sheet No. C-3





HAMILTON ST  
PLAN  
SCALE: 1"=20'



PROFILE A  
SCALE HOR. 1" = 20'  
SCALE VERT. 1" = 4'



KEYED NOTES

- ① 24" DIP RECLAIMED WATERLINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
- ②6 \*PROPOSED 12" WATERLINE BY OTHERS
- ②7 \*PROPOSED 12" SANITARY SEWER LINE BY OTHERS
- ⑤2 PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING

GENERAL NOTES:

1. CONTRACTOR SHALL MAINTAIN A 2' MINIMUM VERTICAL CLEARANCE BETWEEN UTILITY CROSSINGS. IF SEPARATION DOES NOT MEET MINIMUM REQUIREMENTS, WET UTILITY ENCASUREMENT SHALL BE REQUIRED PER MAG STD DTL 404.
2. THE MINIMUM DEPTH OF COVER UNDER PAVED STREETS SHALL BE 7' MINIMUM.
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4. CONTRACTOR SHALL MAINTAIN A 1.5' MINIMUM HORIZONTAL CLEARANCE BETWEEN CONCRETE ENCASUREMENT AND PIPE JOINT
5. ALL IRRIGATION SYSTEMS SHALL BE RESTORED TO FULLY FUNCTIONING STATUS. ANY IRRIGATION LOCATED BENEATH ASPHALT OR CONCRETE SHALL BE SLEEVED WITH SCHEDULE 40 PVC TWO (2) NOMINAL SIZES LARGER.
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SURVEY NOTES:

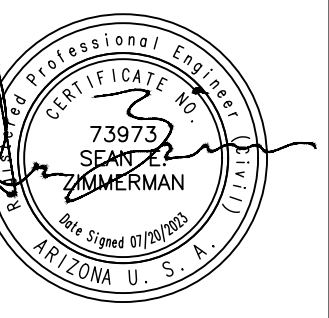
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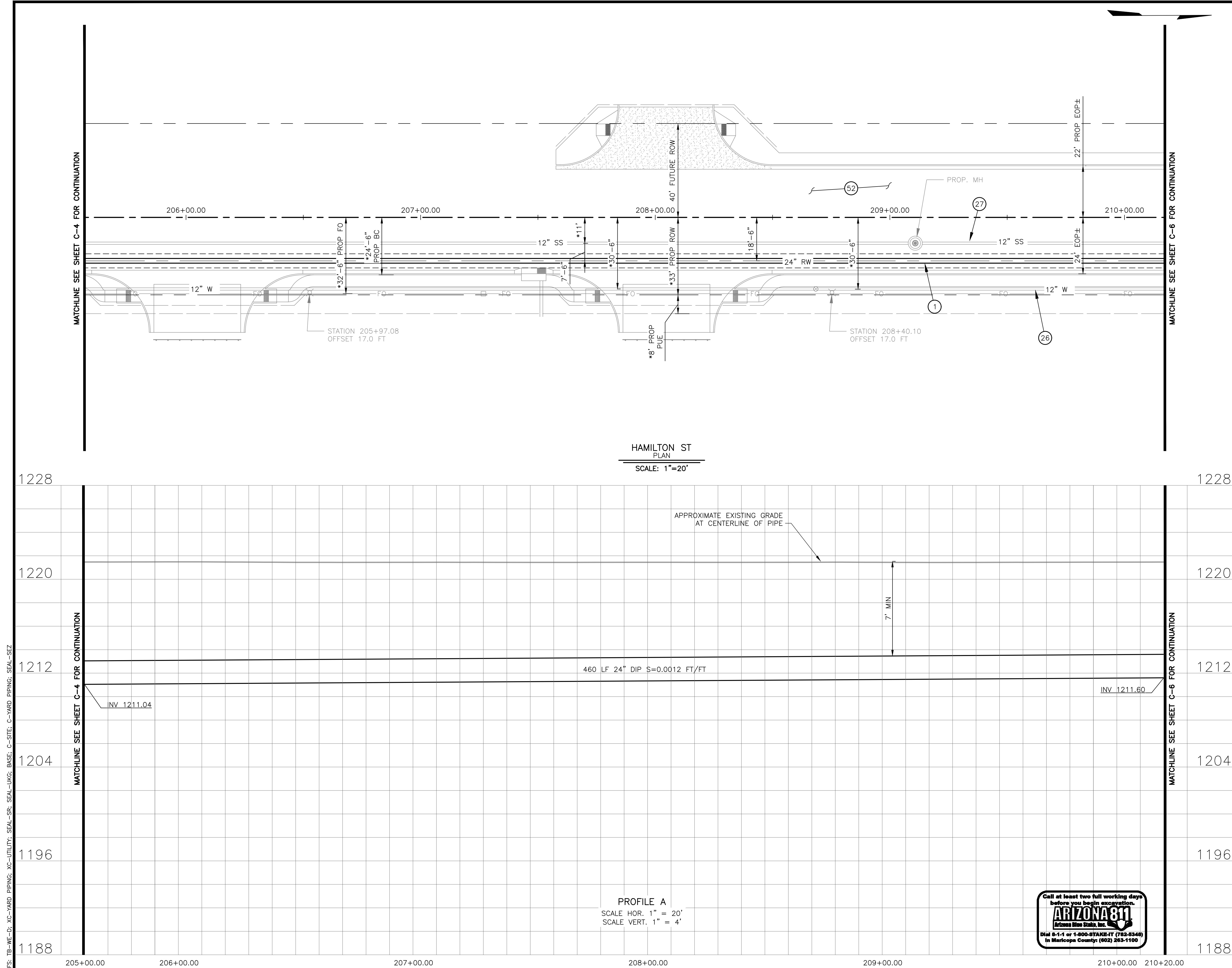


CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 4  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

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**KEYED NOTES**

- ① 24" DIP RECLAIMED WATERLINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
- ②⑥ \*PROPOSED 12" WATERLINE BY OTHERS
- ②⑦ \*PROPOSED 12" SANITARY SEWER LINE BY OTHERS
- ⑤② PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING

**GENERAL NOTES:**

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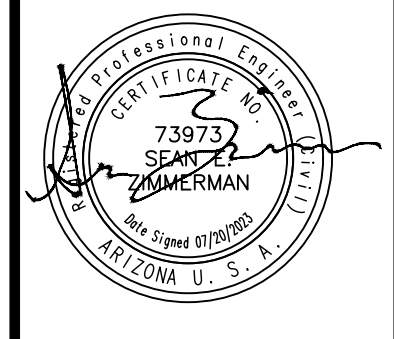
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**WILSON**  
**ENGINEERS**

CITY OF CHANDLER  
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CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

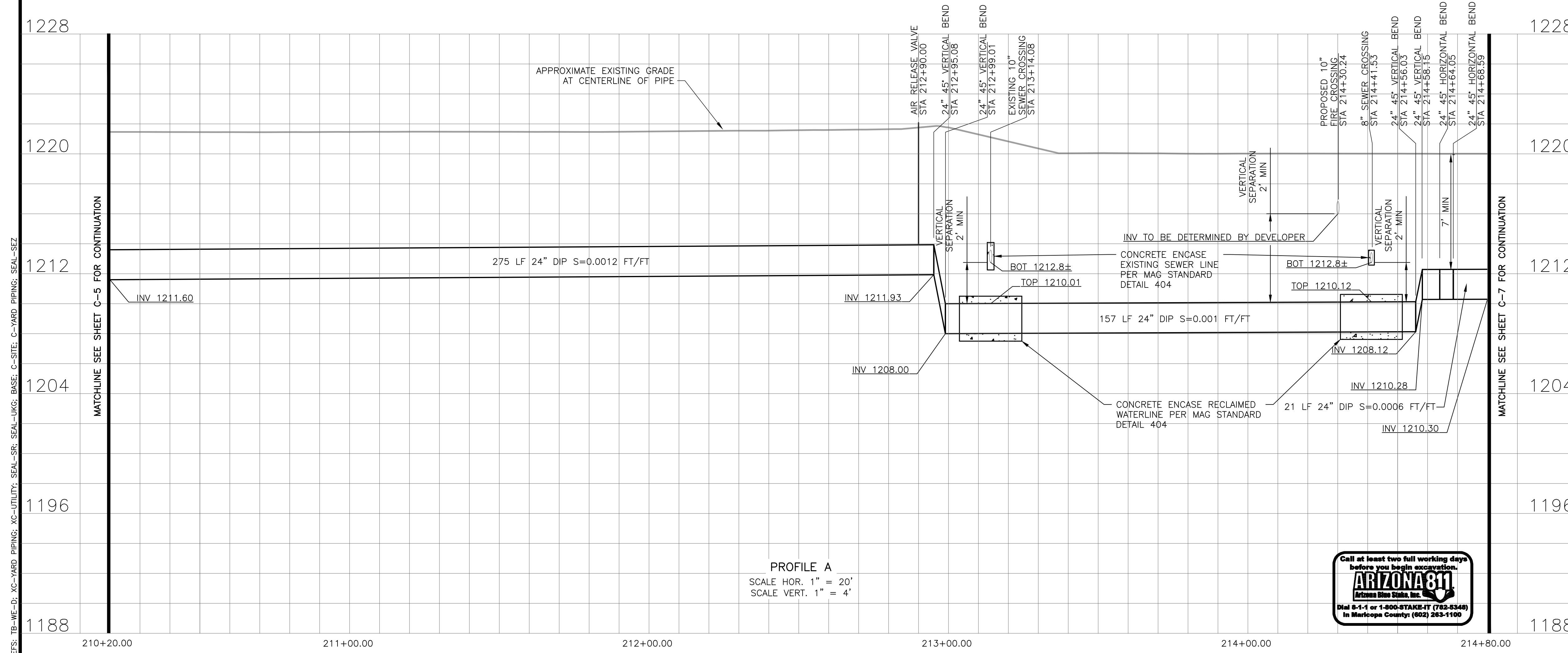
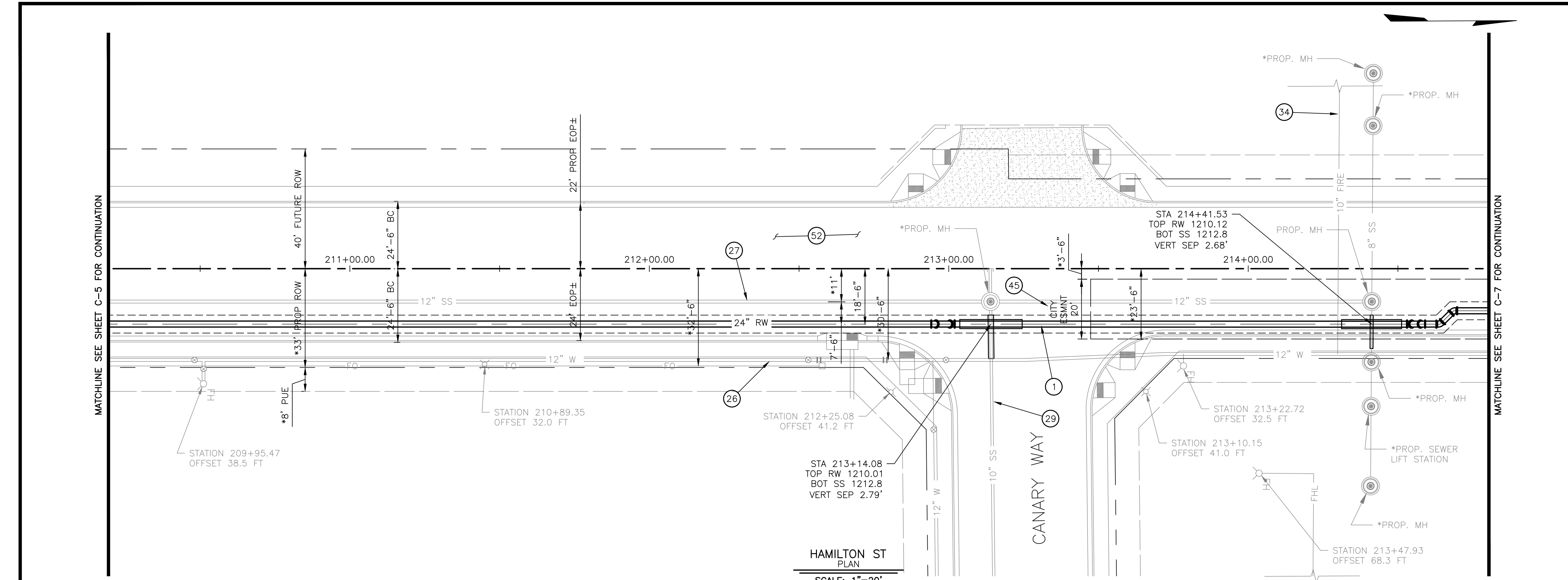
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Sheet No. C-5





- ### KEYED NOTES
- 24" DIP RECLAIMED WATERLINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
  - \*PROPOSED 12" WATERLINE BY OTHERS
  - \*PROPOSED 12" SANITARY SEWER LINE BY OTHERS
  - \*PROPOSED 10" SANITARY SEWER LINE BY OTHERS
  - \*PROPOSED 10" FIRE LINE BY OTHERS
  - MCR EASEMENT #20240105931
  - PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING
- ### GENERAL NOTES:
- CONTRACTOR SHALL MAINTAIN A 2' MINIMUM VERTICAL CLEARANCE BETWEEN UTILITY CROSSINGS. IF SEPARATION DOES NOT MEET MINIMUM REQUIREMENTS, WET UTILITY ENCASUREMENT SHALL BE REQUIRED PER MAG STD DTL 404.
  - THE MINIMUM DEPTH OF COVER UNDER PAVED STREETS SHALL BE 7' MINIMUM.
  - \*: PROPOSED BY OTHERS; REFER TO OFFSITE IMPROVEMENTS PLANS - SCHRADER FARMS BUSINESS PARK - PHASE 1 - CIV21-0127, SCHNITZER COMMERCE PARK PRELIMINARY PLAT PLANS - PLT21-0011, RYAN ROAD IMPROVEMENTS UNION PACIFIC RR TO MCQUEEN ROAD - CIV22-0175.
  - CONTRACTOR SHALL MAINTAIN A 1.5' MINIMUM HORIZONTAL CLEARANCE BETWEEN CONCRETE ENCASEMENT AND PIPE JOINT
  - ALL IRRIGATION SYSTEMS SHALL BE RESTORED TO FULLY FUNCTIONING STATUS. ANY IRRIGATION LOCATED BENEATH ASPHALT OR CONCRETE SHALL BE SLEEVED WITH SCHEDULE 40 PVC TWO (2) NOMINAL SIZES LARGER.
  - ALL TREES AND VEGETATION IMPACTED BY THE CONSTRUCTION SHALL BE REPLACED WITH THE SAME SIZE AND TYPE AT A LOCATION DETERMINED BY THE CITY.

- ### SURVEY NOTES:
- LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS. BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT AND ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THE WORK AND AVOIDING DAMAGE TO SAME. LANDSCAPE IRRIGATION LINES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY LANDSCAPE IRRIGATION LINES DAMAGES DURING CONSTRUCTION.
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  - NEW CONSTRUCTION AND DEMOLITION OPERATIONS SHALL BE SCHEDULED TO PROVIDE THE CITY WITH MINIMUM DOWNTIME PERIODS FOR ACTIVE FACILITY OPERATIONS. SEE SPECIFICATIONS FOR SEQUENCE OF CONSTRUCTION AND OTHER REQUIREMENTS

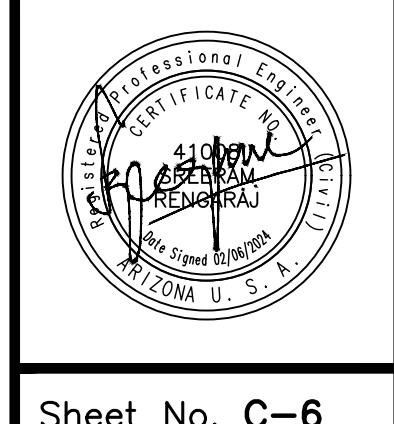
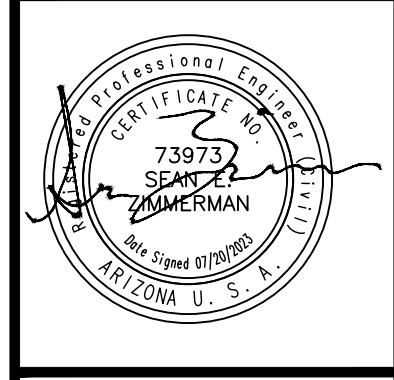
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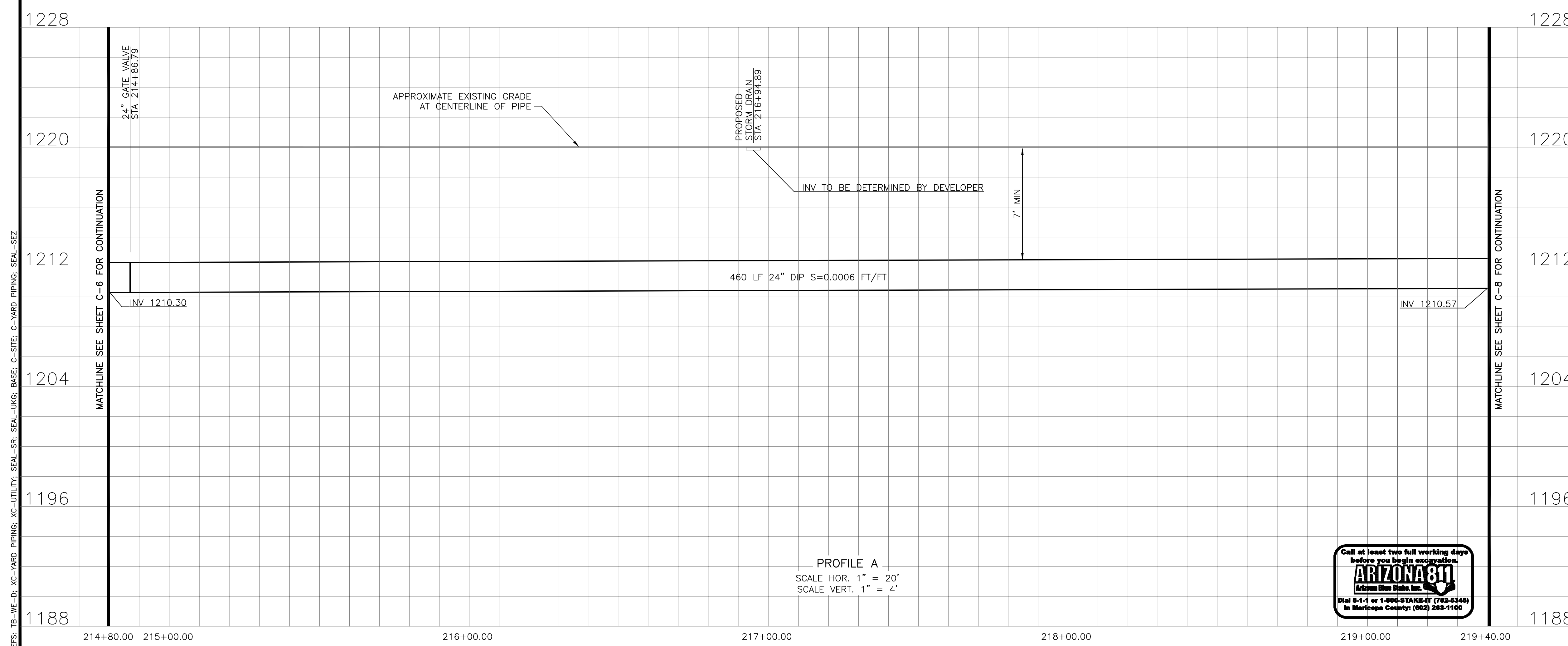
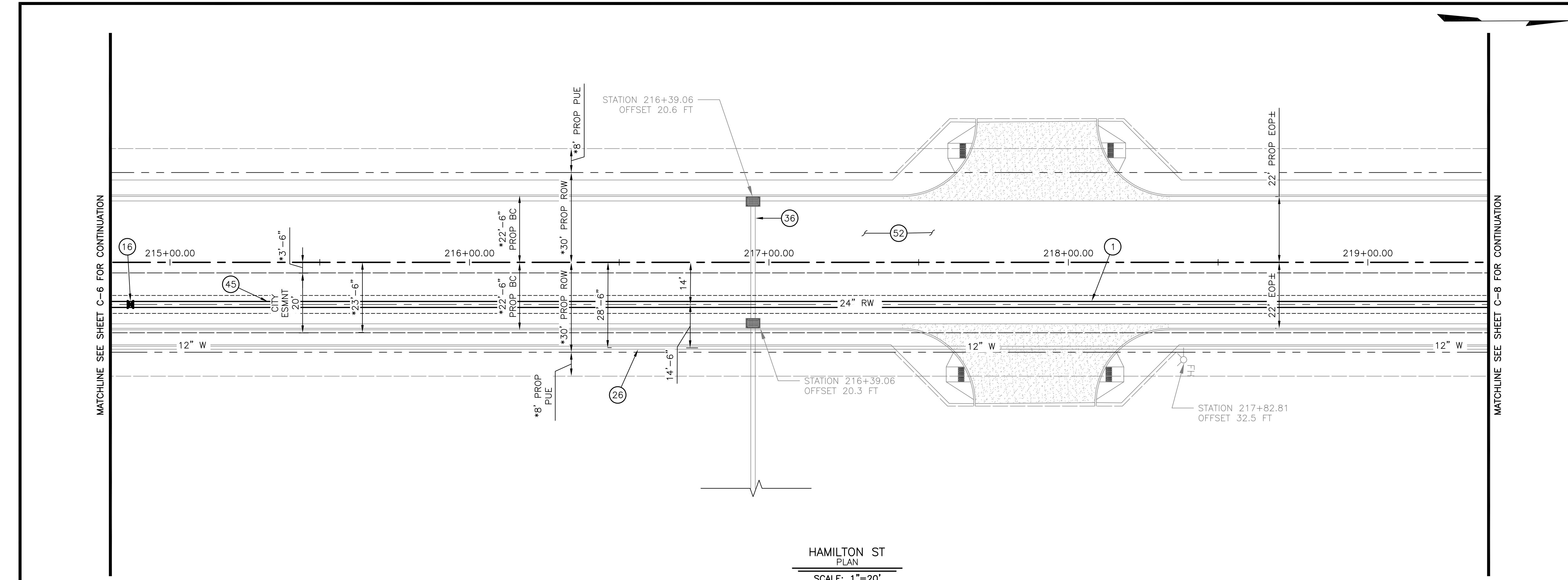
# WILSON ENGINEERS

CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 6  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

Design: CPA	Drawn: CMD	Checked: SEZ
Date: 08/2024	Wilson Project No.: 22016	
Rev#	Date	Description

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**KEYED NOTES**

- ① 24" DIP RECLAIMED WATERLINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
- ⑬ 24" GATE VALVE INSTALLED IN VALVE VAULT PER CITY OF CHANDLER STANDARD DETAIL C-320
- ⑳ \*PROPOSED 12" WATERLINE BY OTHERS
- ㉔ \*PROPOSED STORM DRAIN BY OTHERS
- ④⑤ MCR EASEMENT #20240105931
- ⑤② PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING

**GENERAL NOTES:**

1. CONTRACTOR SHALL MAINTAIN A 2' MINIMUM VERTICAL CLEARANCE BETWEEN UTILITY CROSSINGS. IF SEPARATION DOES NOT MEET MINIMUM REQUIREMENTS, WET UTILITY ENCASEMENT SHALL BE REQUIRED PER MAG STD DTL 404.
2. THE MINIMUM DEPTH OF COVER UNDER PAVED STREETS SHALL BE 7" MINIMUM.
3. "\*": PROPOSED BY OTHERS; REFER TO OFFSITE IMPROVEMENTS PLANS - SCHRADER FARMS BUSINESS PARK - PHASE 1 CIV21-0127, SCHNITZER COMMERCE PARK PRELIMINARY PLAT PLANS - PLT21-0011, RYAN ROAD IMPROVEMENTS UNION PACIFIC RR TO MCQUEEN ROAD - CIV22-0175.
4. CONTRACTOR SHALL MAINTAIN A 1.5' MINIMUM HORIZONTAL CLEARANCE BETWEEN CONCRETE ENCASEMENT AND PIPE JOINT
5. ALL IRRIGATION SYSTEMS SHALL BE RESTORED TO FULLY FUNCTIONING STATUS. ANY IRRIGATION LOCATED BENEATH ASPHALT OR CONCRETE SHALL BE SLEEVED WITH SCHEDULE 40 PVC TWO (2) NOMINAL SIZES LARGER.
6. ALL TREES AND VEGETATION IMPACTED BY THE CONSTRUCTION SHALL BE REPLACED WITH THE SAME SIZE AND TYPE AT A LOCATION DETERMINED BY THE CITY.

**SURVEY NOTES:**

1. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS. BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT AND ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THE WORK AND AVOIDING DAMAGE TO SAME. LANDSCAPE IRRIGATION LINES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY LANDSCAPE IRRIGATION LINES DAMAGES DURING CONSTRUCTION.
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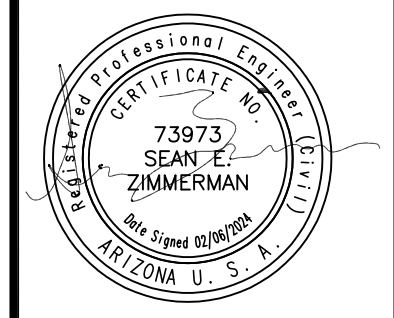
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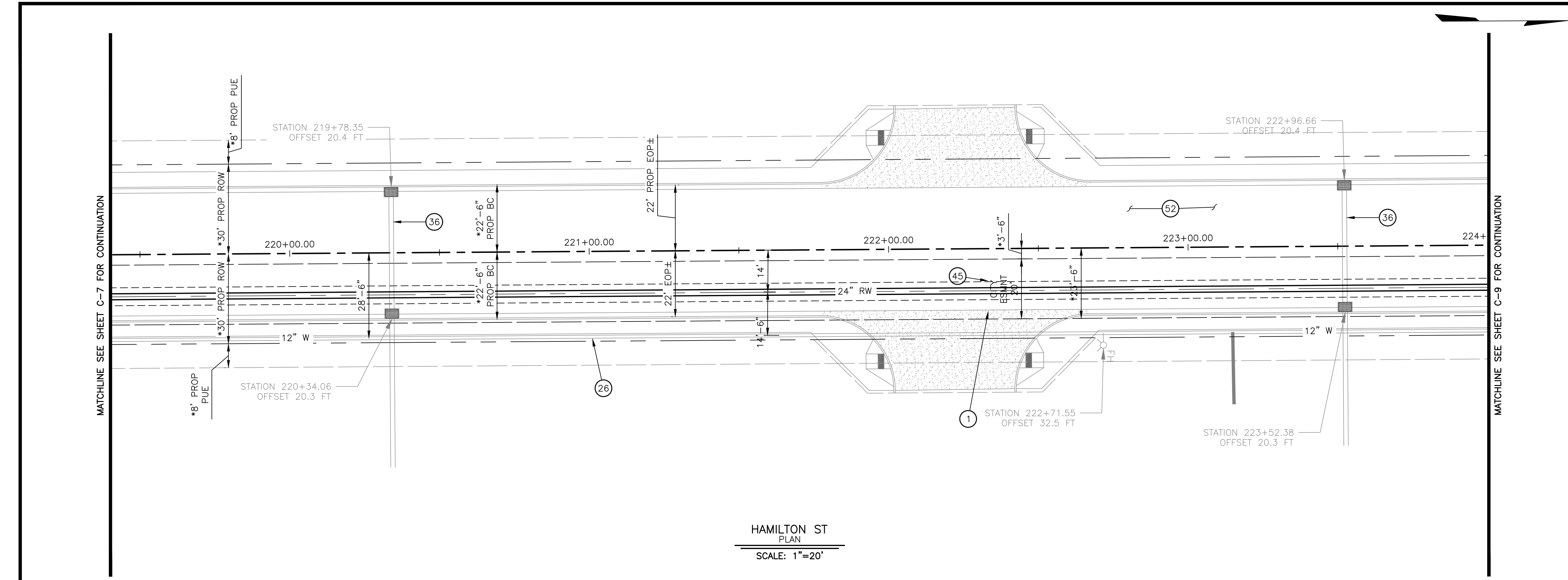
**WILSON  
ENGINEERS**

CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 7  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

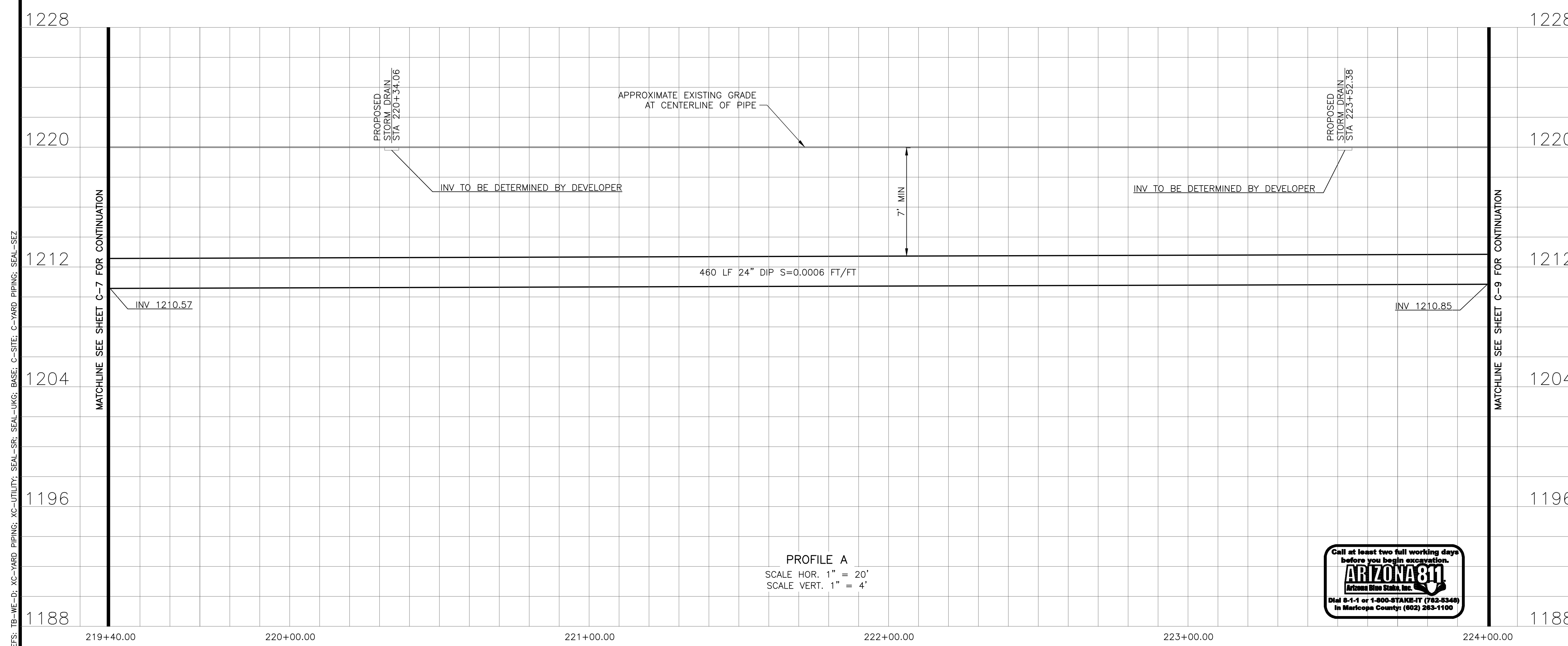
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HAMILTON ST  
PLAN  
SCALE: 1"=20'



PROFILE A  
SCALE HOR. 1" = 20'  
SCALE VERT. 1" = 4'



KEYED NOTES

- 1 24" DIP RECLAIMED WATERLINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
- 26 \*PROPOSED 12" WATERLINE BY OTHERS
- 36 \*PROPOSED STORM DRAIN BY OTHERS
- 45 MCR EASEMENT #20240105931
- 52 PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING

GENERAL NOTES:

1. CONTRACTOR SHALL MAINTAIN A 2' MINIMUM VERTICAL CLEARANCE BETWEEN UTILITY CROSSINGS. IF SEPARATION DOES NOT MEET MINIMUM REQUIREMENTS, WET UTILITY ENCASEMENT SHALL BE REQUIRED PER MAG STD DTL 404.
2. THE MINIMUM DEPTH OF COVER UNDER PAVED STREETS SHALL BE 7' MINIMUM.
3. "\*\*": PROPOSED BY OTHERS; REFER TO OFFSITE IMPROVEMENTS PLANS - SCHRADER FARMS BUSINESS PARK - PHASE 1 - CIV21-0127, SCHNITZER COMMERCE PARK PRELIMINARY PLAT PLANS - PLT21-0011, RYAN ROAD IMPROVEMENTS UNION PACIFIC RR TO MCQUEEN ROAD - CIV22-0175.
4. CONTRACTOR SHALL MAINTAIN A 1.5' MINIMUM HORIZONTAL CLEARANCE BETWEEN CONCRETE ENCASEMENT AND PIPE JOINT
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SURVEY NOTES:

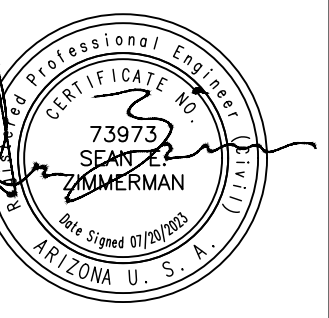
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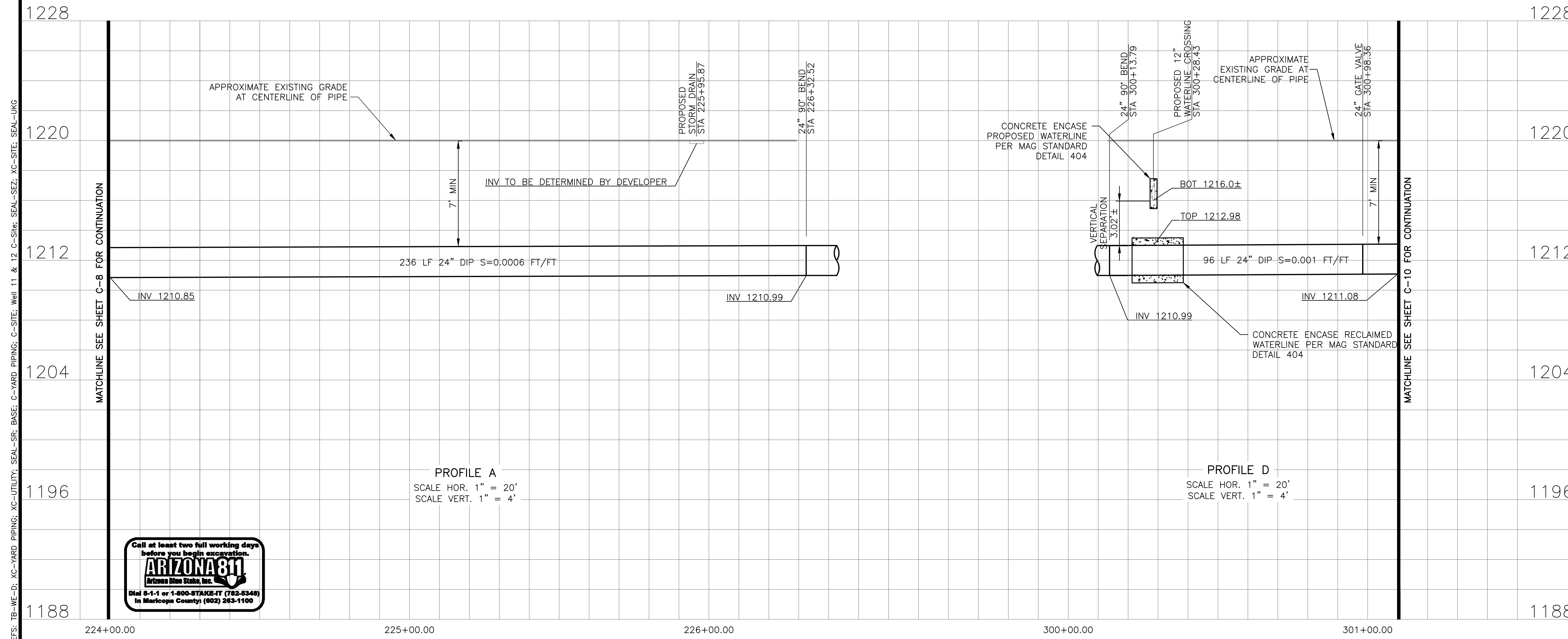
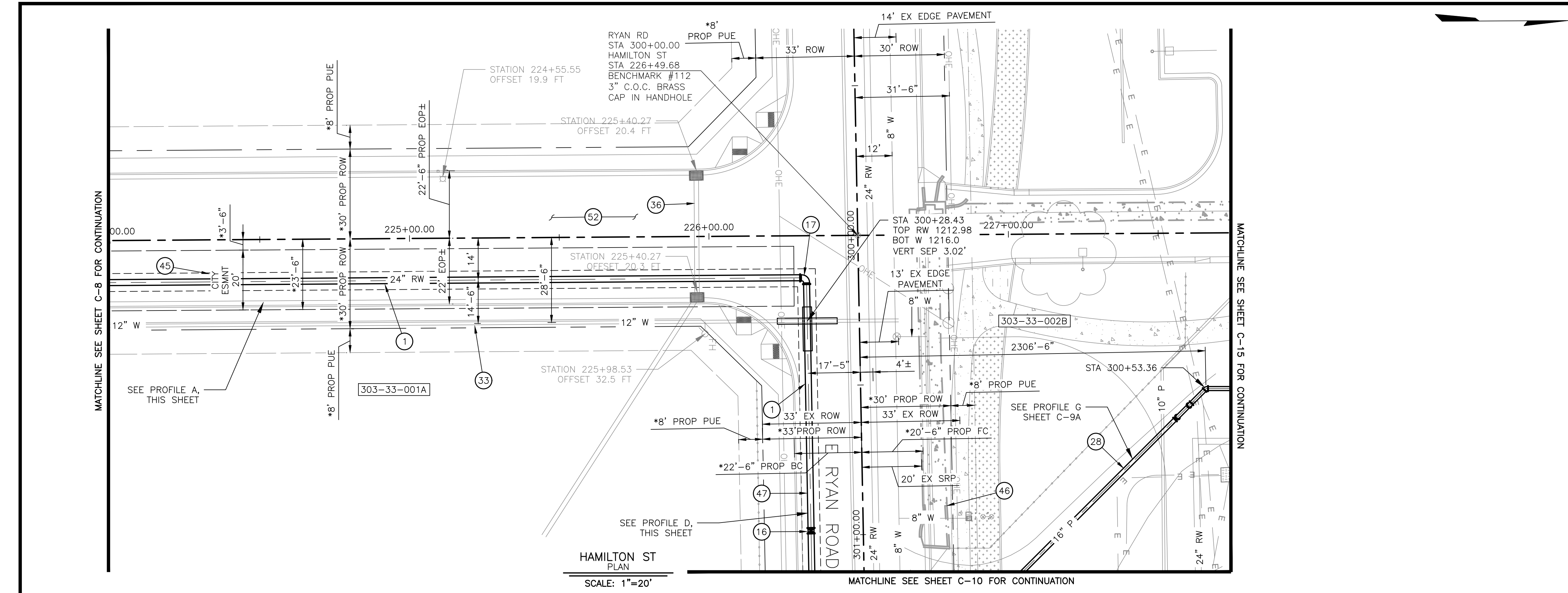


CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 8  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

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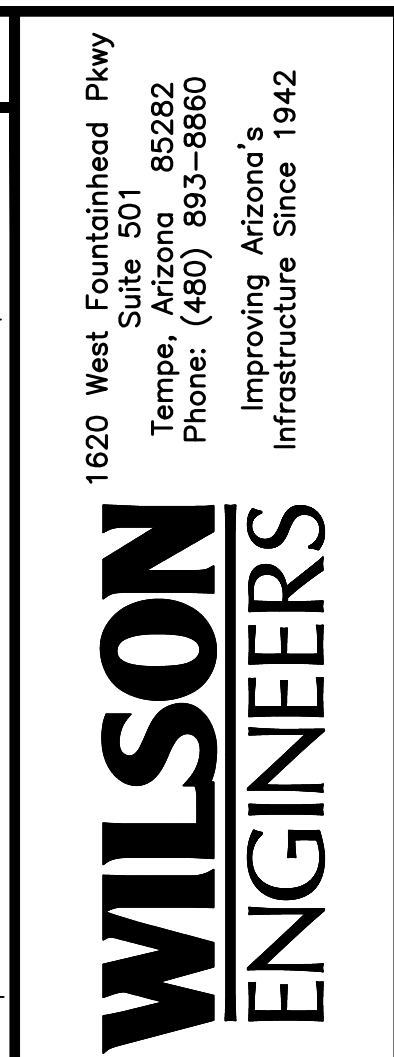




- ### KEYED NOTES
- 1 24" DIP RECLAIMED WATERLINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
  - 16 24" GATE VALVE INSTALLED IN VALVE VAULT PER CITY OF CHANDLER STANDARD DETAIL C-320
  - 17 24" 90° BEND, FULLY RESTRAINED MJ FITTING
  - 28 16" DIP PURGE LINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
  - 33 \*PROPOSED 12" WATERLINE BY OTHERS
  - 36 \*PROPOSED STORM DRAIN BY OTHERS
  - 45 MCR EASEMENT #20240105931
  - 46 EXISTING SRP IRRIGATION DITCH
  - 47 A.B.C. IN ACCORDANCE WITH "T-TOP" TRENCH REPAIR PER MAG STANDARD DETAIL 200
  - 52 PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING

- ### GENERAL NOTES:
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  4. CONTRACTOR SHALL MAINTAIN A 1.5' MINIMUM HORIZONTAL CLEARANCE BETWEEN CONCRETE ENCASEMENT AND PIPE JOINT
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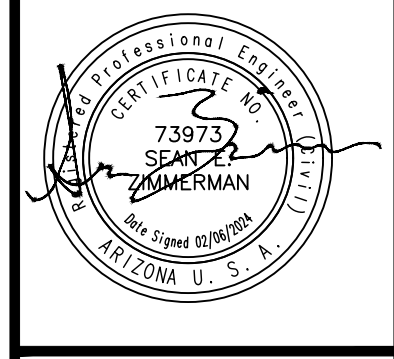
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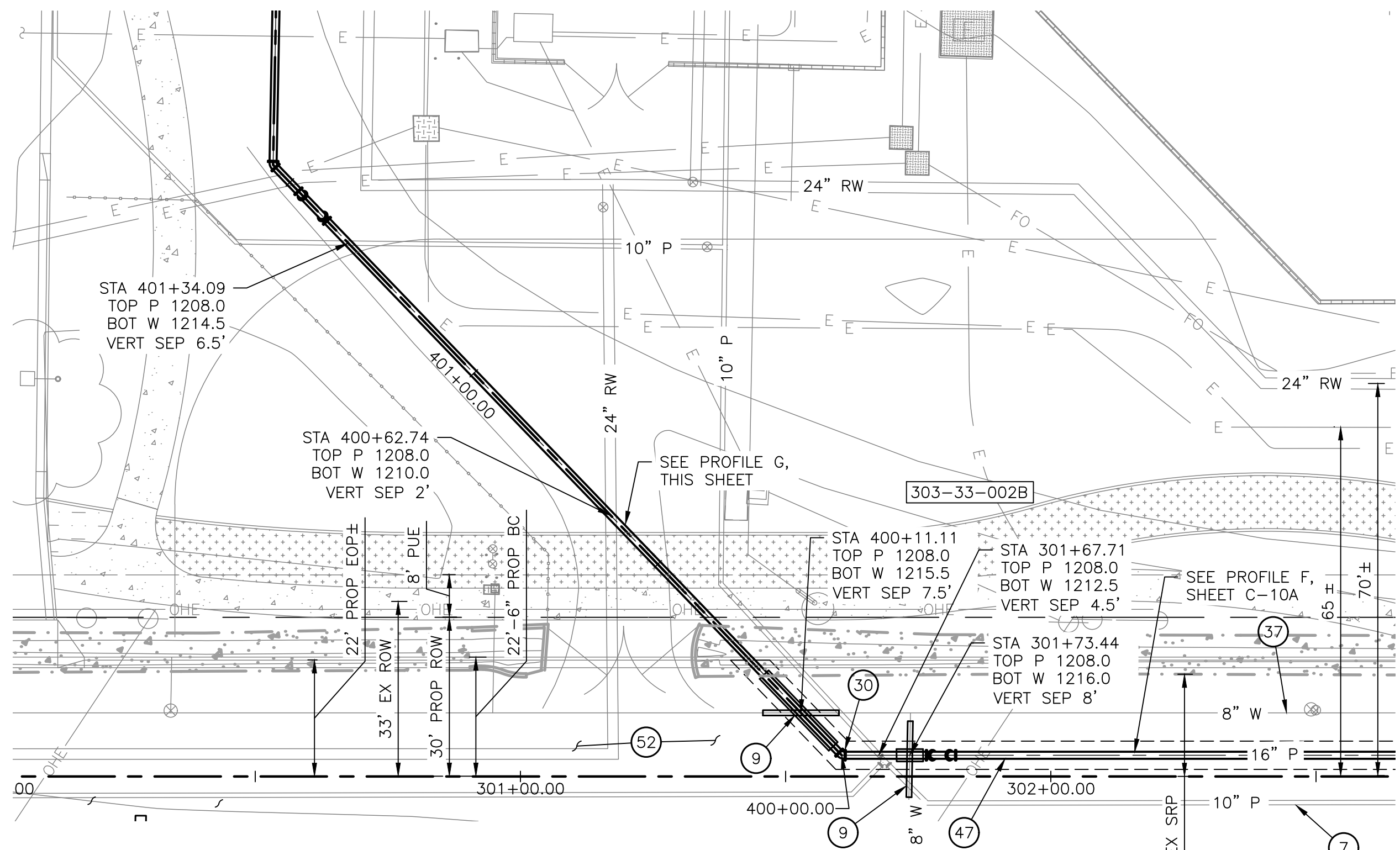
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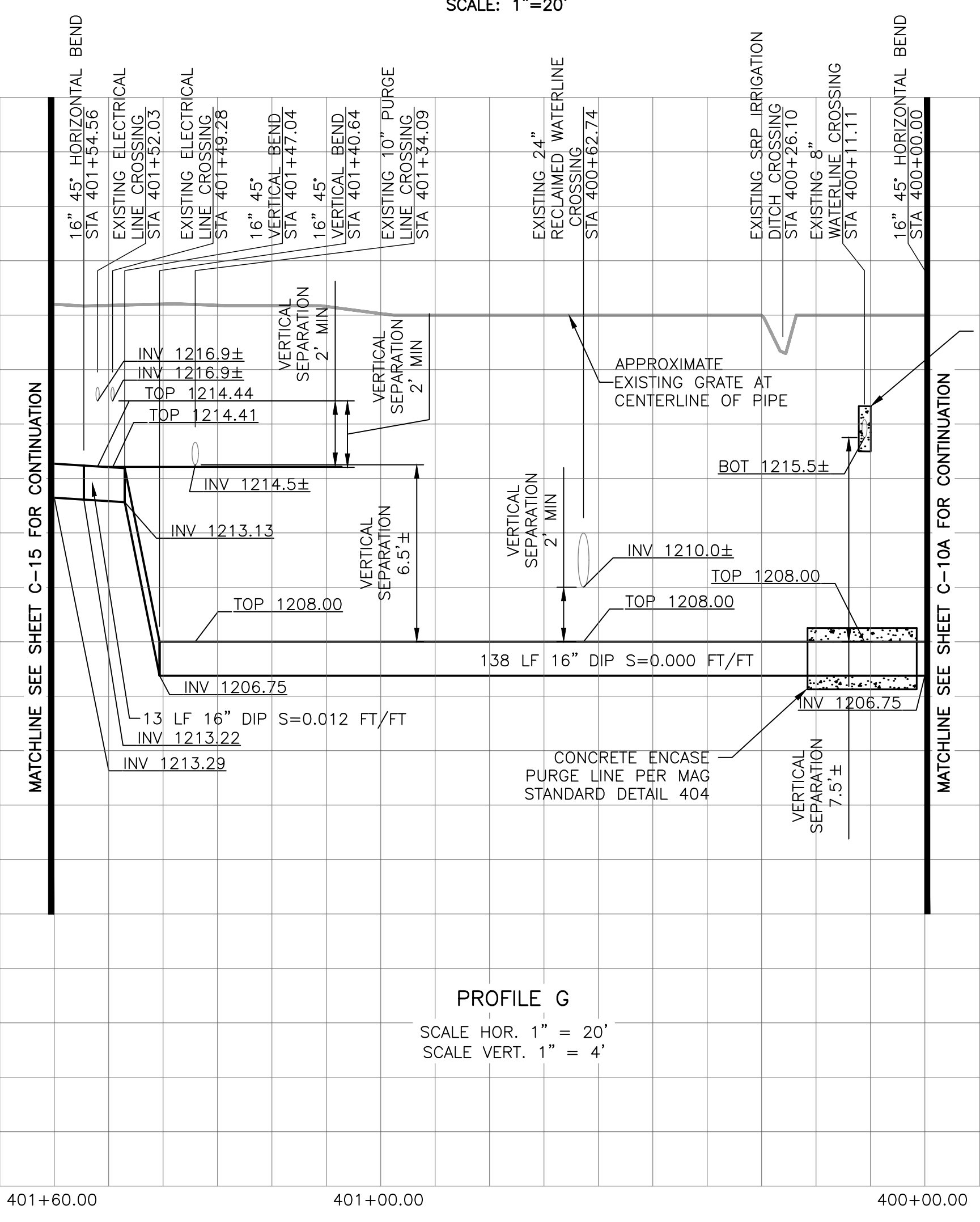


Sheet No. C-9



NOTE:  
1. VEGETATION NOT SHOWN FOR CLARITY

E RYAN RD  
PLAN  
SCALE: 1"=20'



PROFILE G  
SCALE HOR. 1" = 20'  
SCALE VERT. 1" = 4'

KEYED NOTES

- 7 EXISTING 10" PURGE LINE
- 9 EXISTING 8" WATERLINE CROSSING. PROTECT IN PLACE
- 28 16" DIP PURGE LINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
- 30 HAMILTON ST. STA 301+58.64 = 16" PURGE LINE STA 400+00.00, LOCATED AT THE 16" 45' BEND
- 37 EXISTING 8" WATERLINE
- 47 A.B.C IN ACCORDANCE WITH "T-TOP" TRENCH REPAIR PER MAG STANDARD DETAIL 200
- 52 PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING

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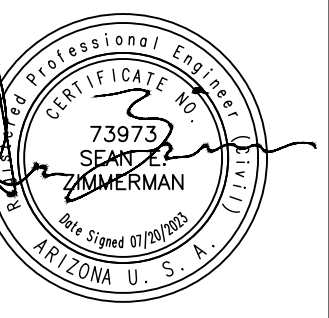
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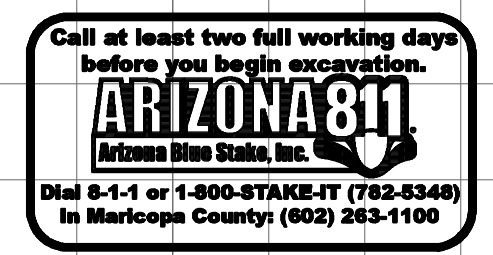
CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 10  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

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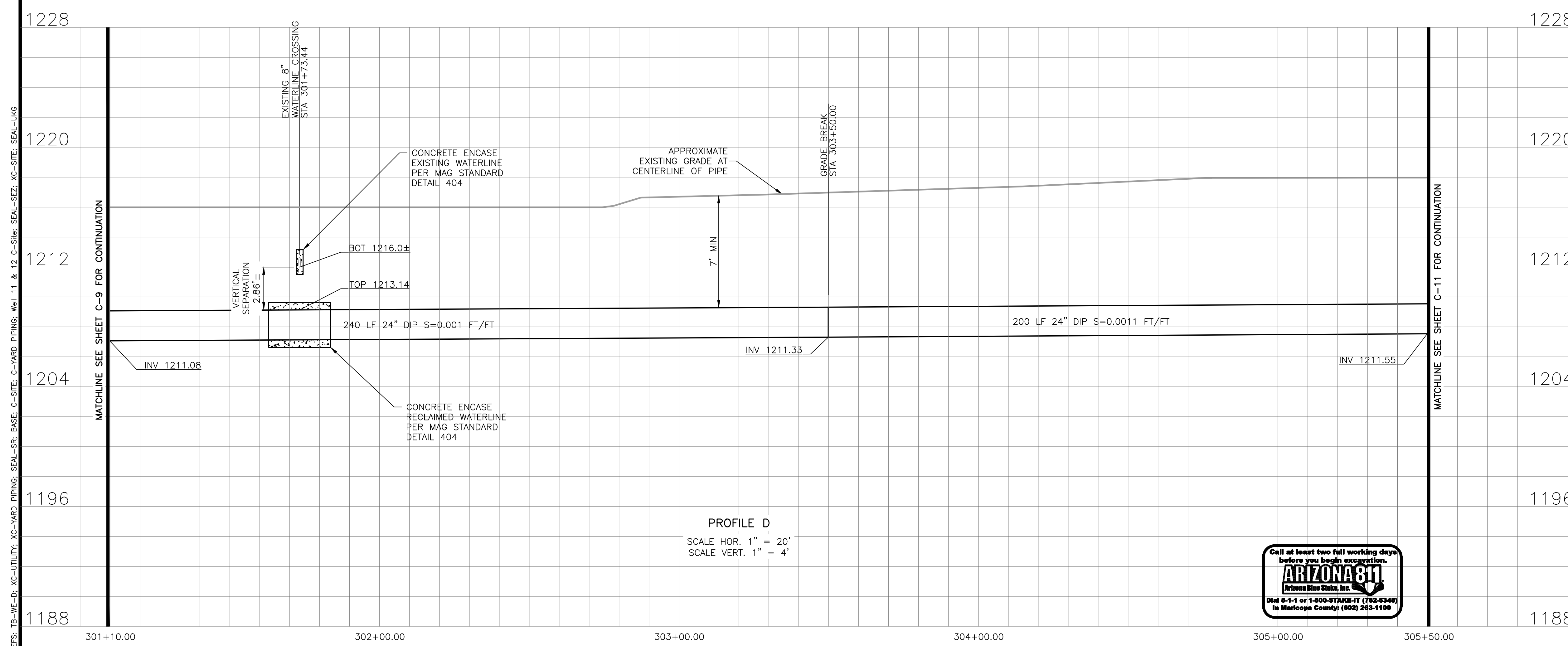
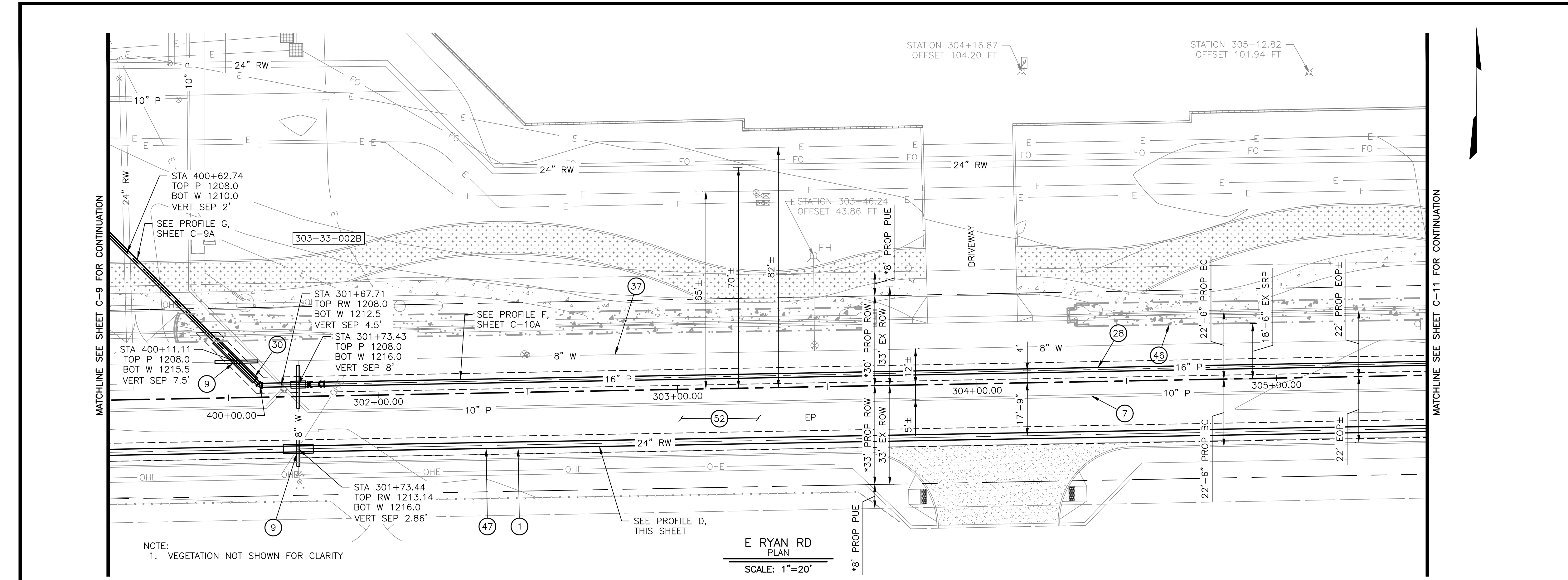


XREFS: TB-WE-D, XC-UTILITY, XC-YARD PIPING, SEAL-SR, BASE, C-SITE, C-YARD PIPING, SEAL-SEZ, XC-SITE, SEAL-LJK

1228  
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1188





**KEYED NOTES**

- ① 24" DIP RECLAIMED WATERLINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
- ⑦ EXISTING 10" PURGE LINE
- ⑨ EXISTING 8" WATERLINE CROSSING. PROTECT IN PLACE
- ⑳ 16" DIP PURGE LINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
- ㉓ HAMILTON ST. STA 301+58.64 = 16" PURGE LINE STA 400+00.00, LOCATED AT THE 16" 45' BEND
- ㉗ EXISTING 8" WATERLINE
- ㉛ EXISTING SRP IRRIGATION DITCH
- ㉟ A.B.C IN ACCORDANCE WITH "T-TOP" TRENCH REPAIR PER MAG STANDARD DETAIL 200
- ㊲ PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING.

**GENERAL NOTES:**

1. CONTRACTOR SHALL MAINTAIN A 2' MINIMUM VERTICAL CLEARANCE BETWEEN UTILITY CROSSINGS. IF SEPARATION DOES NOT MEET MINIMUM REQUIREMENTS, WET UTILITY ENCASEMENT SHALL BE REQUIRED PER MAG STD DTL 404.
2. THE MINIMUM DEPTH OF COVER UNDER PAVED STREETS SHALL BE 7' MINIMUM.
3. "A": PROPOSED BY OTHERS; REFER TO OFFSITE IMPROVEMENTS PLANS - SCHRADER FARMS BUSINESS PARK - PHASE 1 CIV21-012, SCHNITZER COMMERCE PARK PRELIMINARY PLAT PLANS - PLT21-0011, RYAN ROAD IMPROVEMENTS UNION PACIFIC RR TO MCQUEEN ROAD - CIV22-0175.
4. CONTRACTOR SHALL MAINTAIN A 1.5' MINIMUM HORIZONTAL CLEARANCE BETWEEN CONCRETE ENCASEMENT AND PIPE JOINT
5. ALL IRRIGATION SYSTEMS SHALL BE RESTORED TO FULLY FUNCTIONING STATUS. ANY IRRIGATION LOCATED BENEATH ASPHALT OR CONCRETE SHALL BE SLEEVED WITH SCHEDULE 40 PVC TWO (2) NOMINAL SIZES LARGER.
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**SURVEY NOTES:**

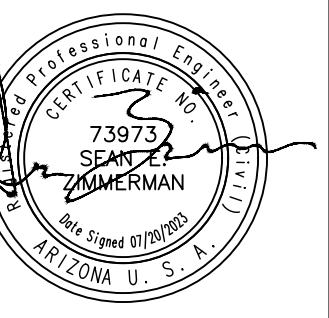
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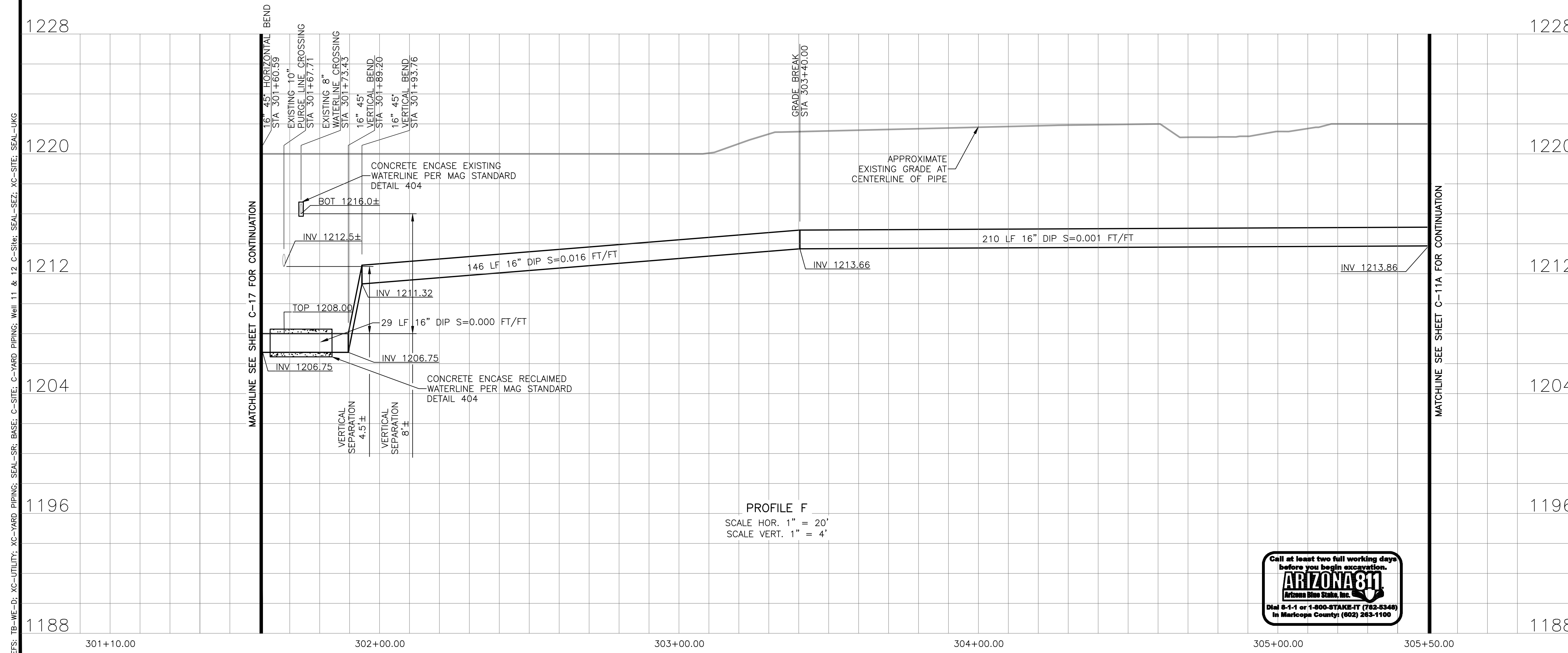
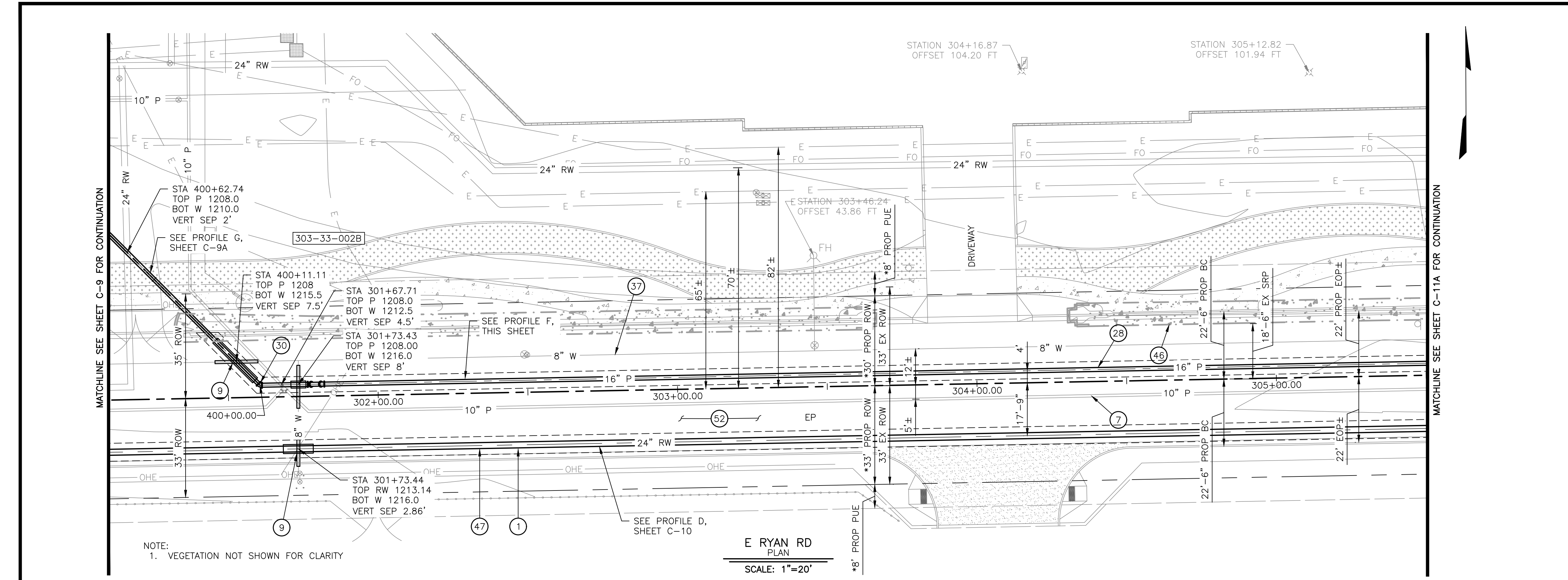
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CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 10  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

Design: CPA	Drawn: CMD	Checked: SEZ
Date: 08/2024	Wilson Project No.: 22016	
Rev#	Date	Description

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**KEYED NOTES**

- ① 24" DIP RECLAIMED WATERLINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
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- ④ A.B.C IN ACCORDANCE WITH "T-TOP" TRENCH REPAIR PER MAG STANDARD DETAIL 200
- ⑤ PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING

**GENERAL NOTES:**

1. CONTRACTOR SHALL MAINTAIN A 2' MINIMUM VERTICAL CLEARANCE BETWEEN UTILITY CROSSINGS. IF SEPARATION DOES NOT MEET MINIMUM REQUIREMENTS, WET UTILITY ENCASEMENT SHALL BE REQUIRED PER MAG STD DTL 404.
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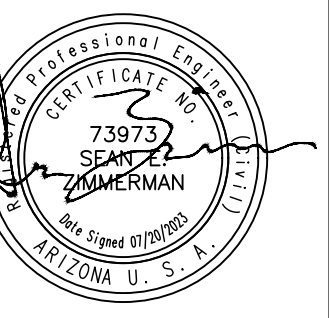
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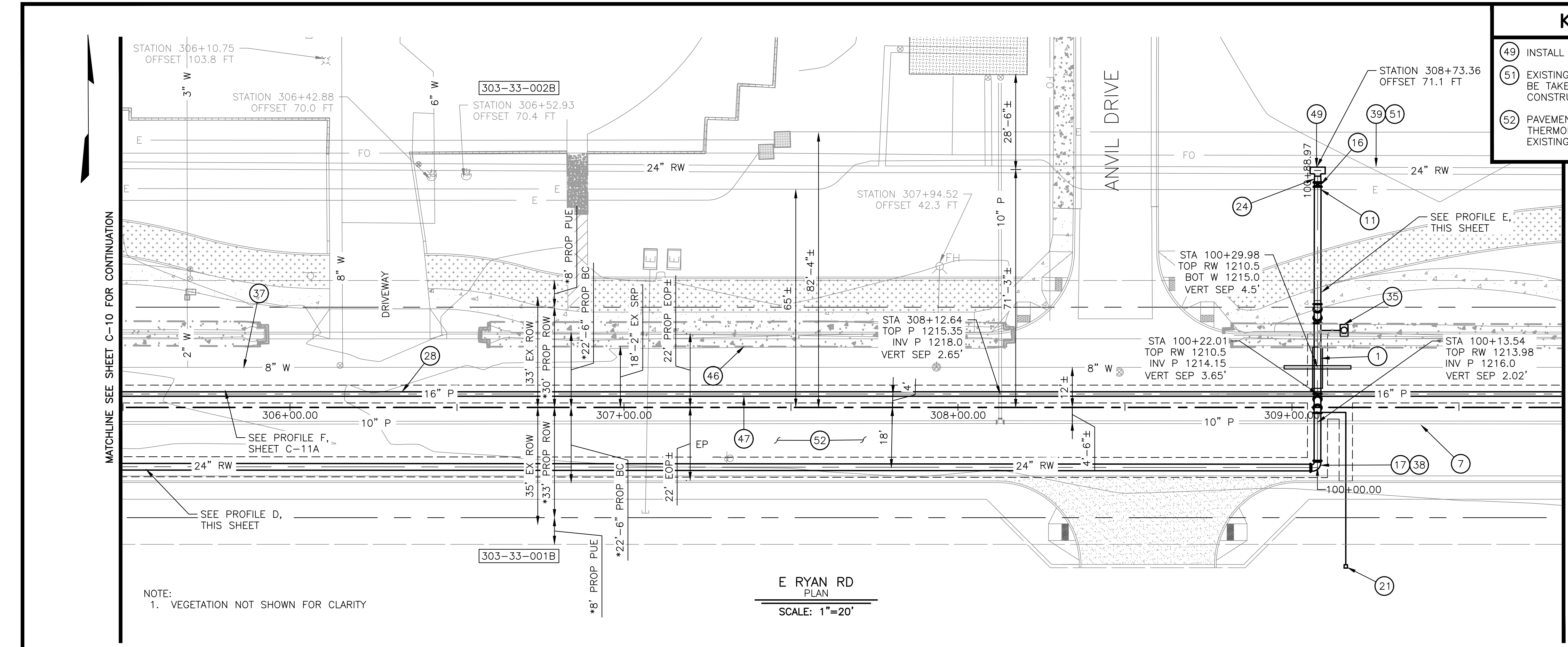


CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 10A  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

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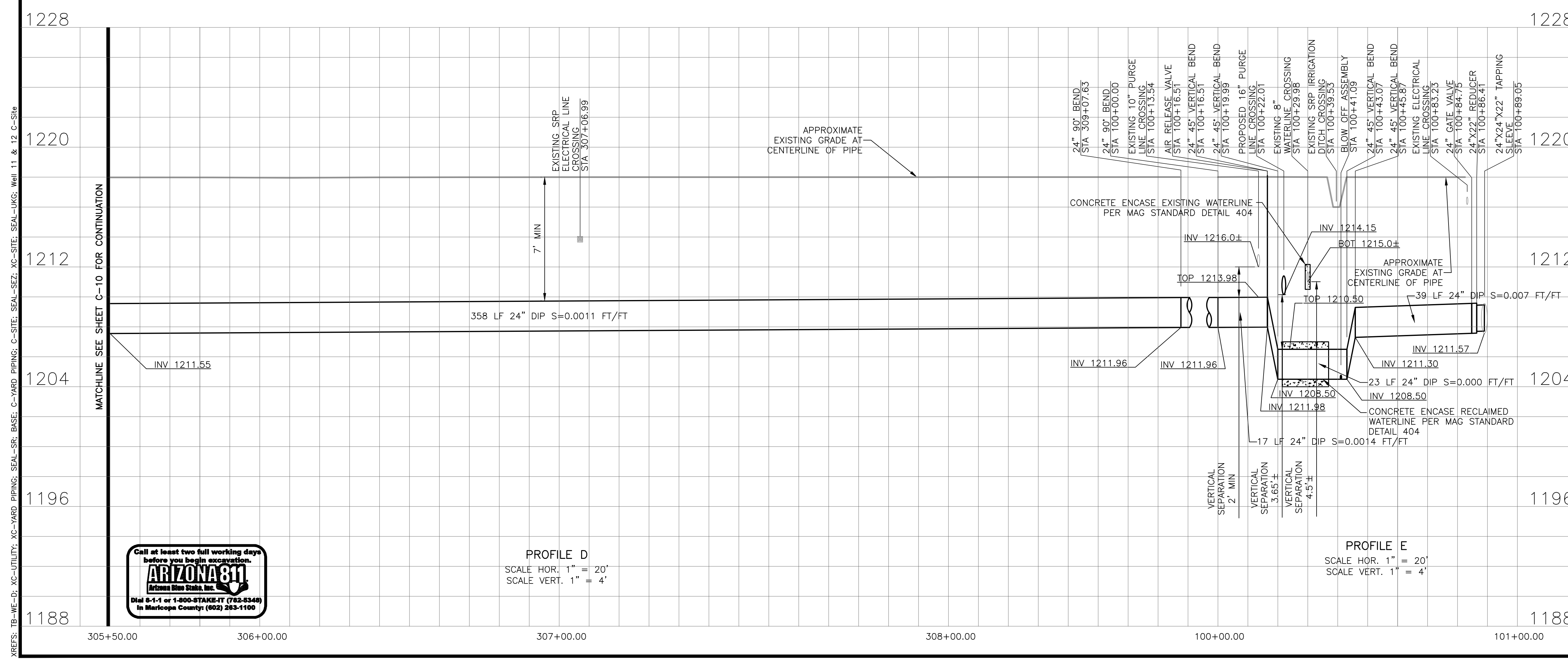


- KEYED NOTES**
- (49) INSTALL 24"x24"x22" TAPPING SLEEVE
  - (51) EXISTING RECLAIMED WATERLINE SHALL NOT BE TAKEN OUT OF SERVICE DURING CONSTRUCTION
  - (52) PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING

- KEYED NOTES**
- (1) 24" DIP RECLAIMED WATERLINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
  - (7) EXISTING 10" PURGE LINE, PROTECT IN PLACE
  - (11) CAUTION: EXISTING ELECTRICAL LINE CROSSING. PROTECT IN PLACE
  - (16) 24" GATE VALVE INSTALLED IN VALVE VAULT PER CITY OF CHANDLER STANDARD DETAIL C-320
  - (17) 24" 90° BEND, FULLY RESTRAINED MJ FITTING
  - (21) 2" AIR RELEASE VALVE PER CITY OF CHANDLER STANDARD DETAIL C-319 PER DETAIL 105 ON SHEET M-2
  - (24) 24"x22" REDUCER
  - (28) 16" DIP PURGE LINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
  - (35) BLOW OFF ASSEMBLY PER DETAIL 105 ON SHEET M-2
  - (37) EXISTING 8" WATERLINE
  - (38) RYAN RD, STA 308+73.31 = 24" RECLAIMED WATERLINE STA 100+00.00, LOCATED AT THE 24" 90° BEND
  - (39) EXISTING 24" RECLAIMED WATERLINE
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**PROFILE D**  
SCALE HOR. 1" = 20'  
SCALE VERT. 1" = 4'

**PROFILE E**  
SCALE HOR. 1" = 20'  
SCALE VERT. 1" = 4'



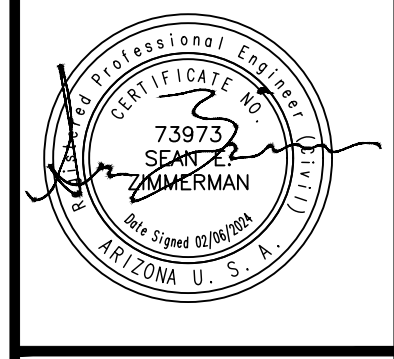
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**WILSON ENGINEERS**

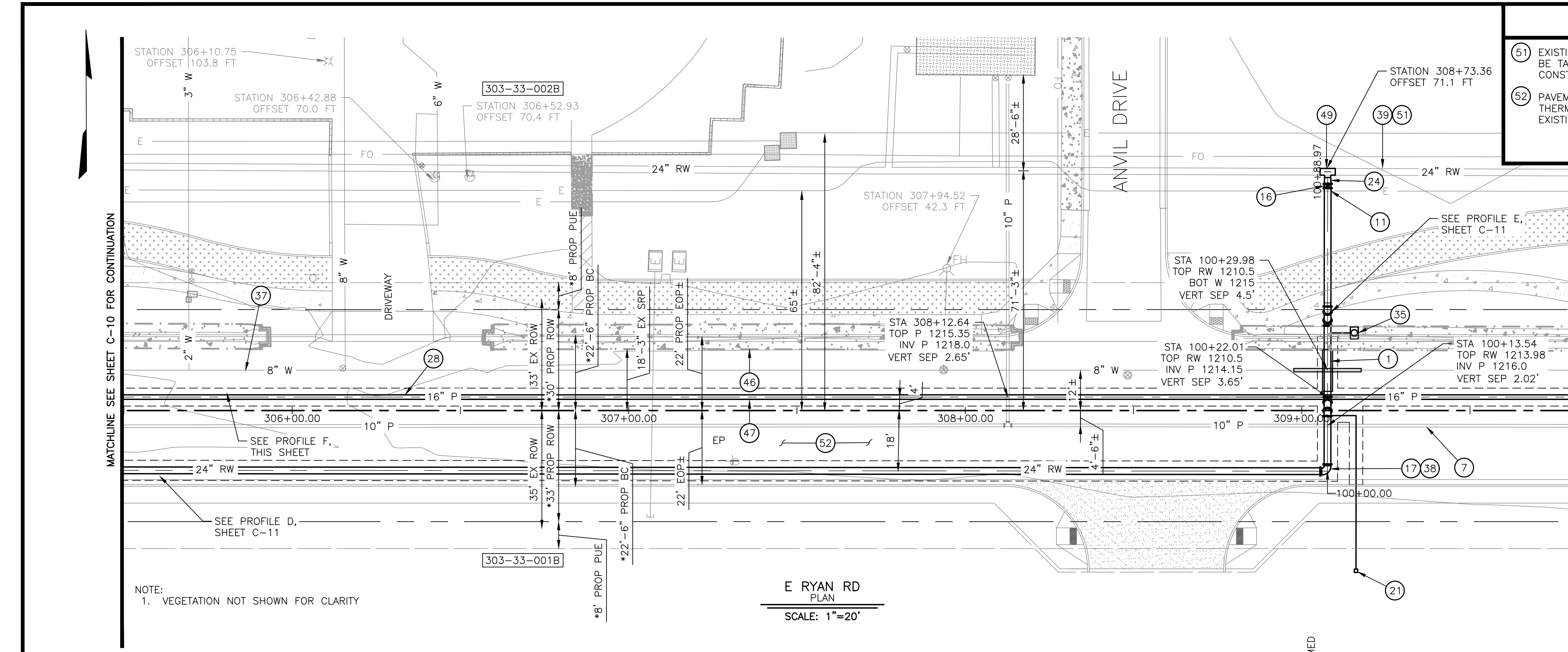
CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 11  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

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Sheet No. C-11

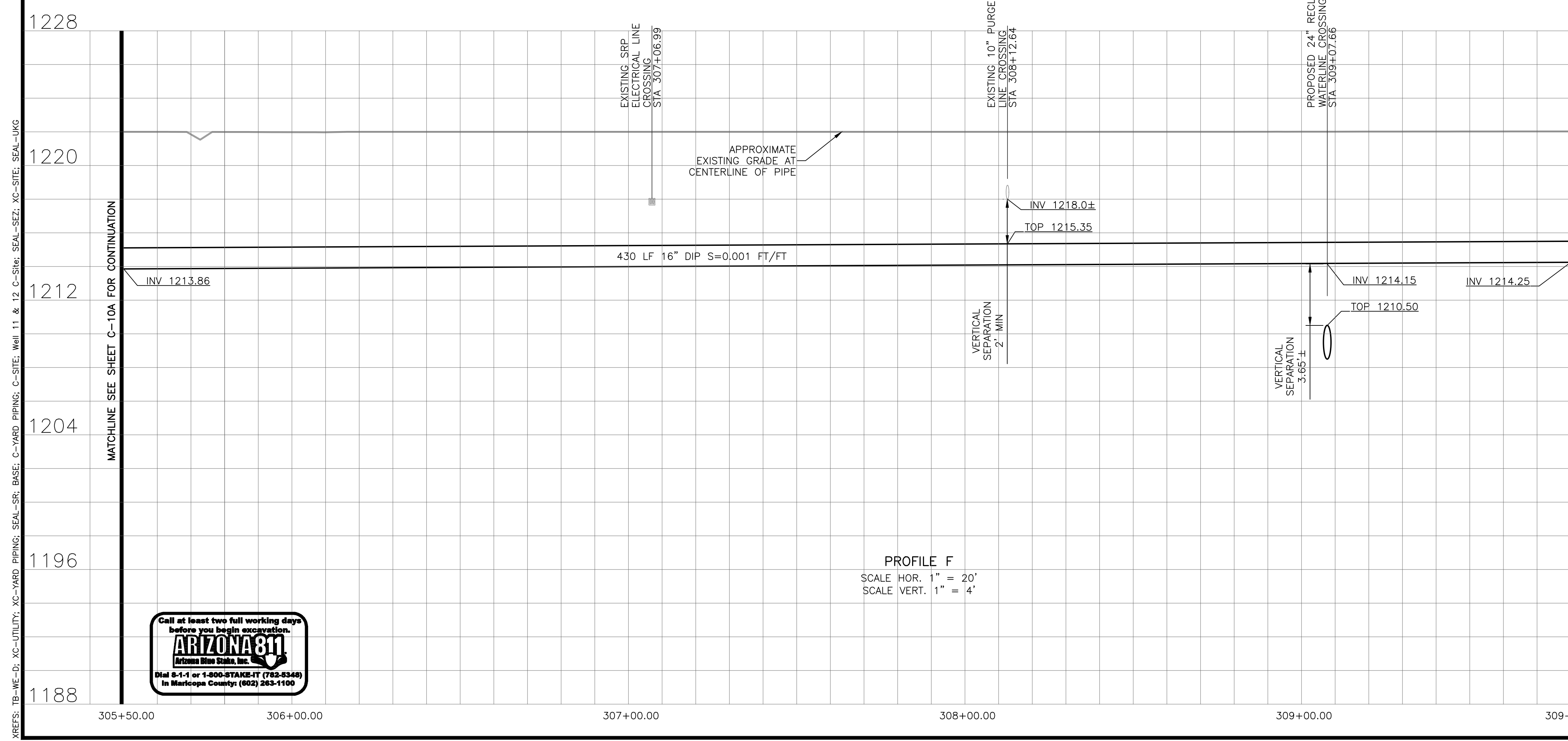


- KEYED NOTES**
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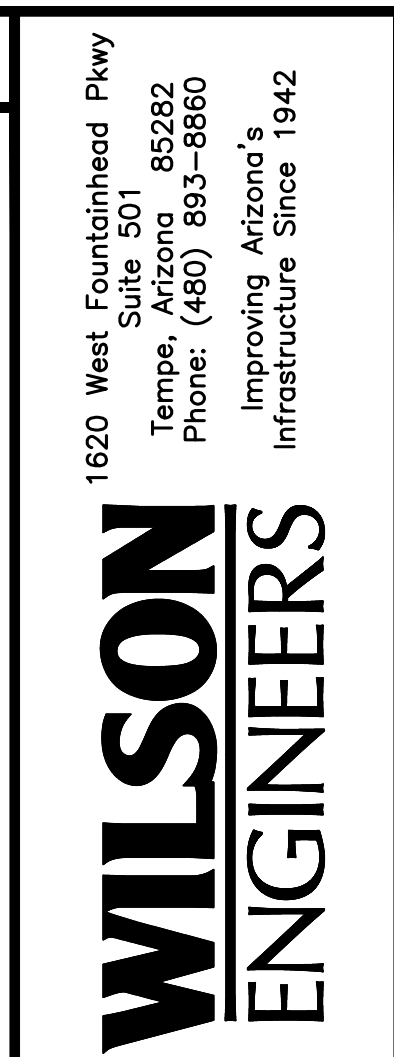
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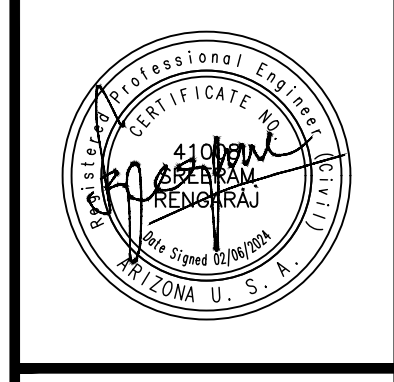
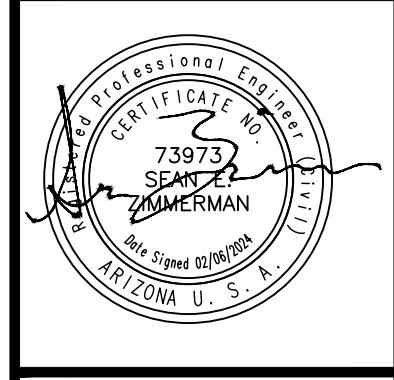
**PROFILE F**  
 SCALE HOR. 1" = 20'  
 SCALE VERT. 1" = 4'



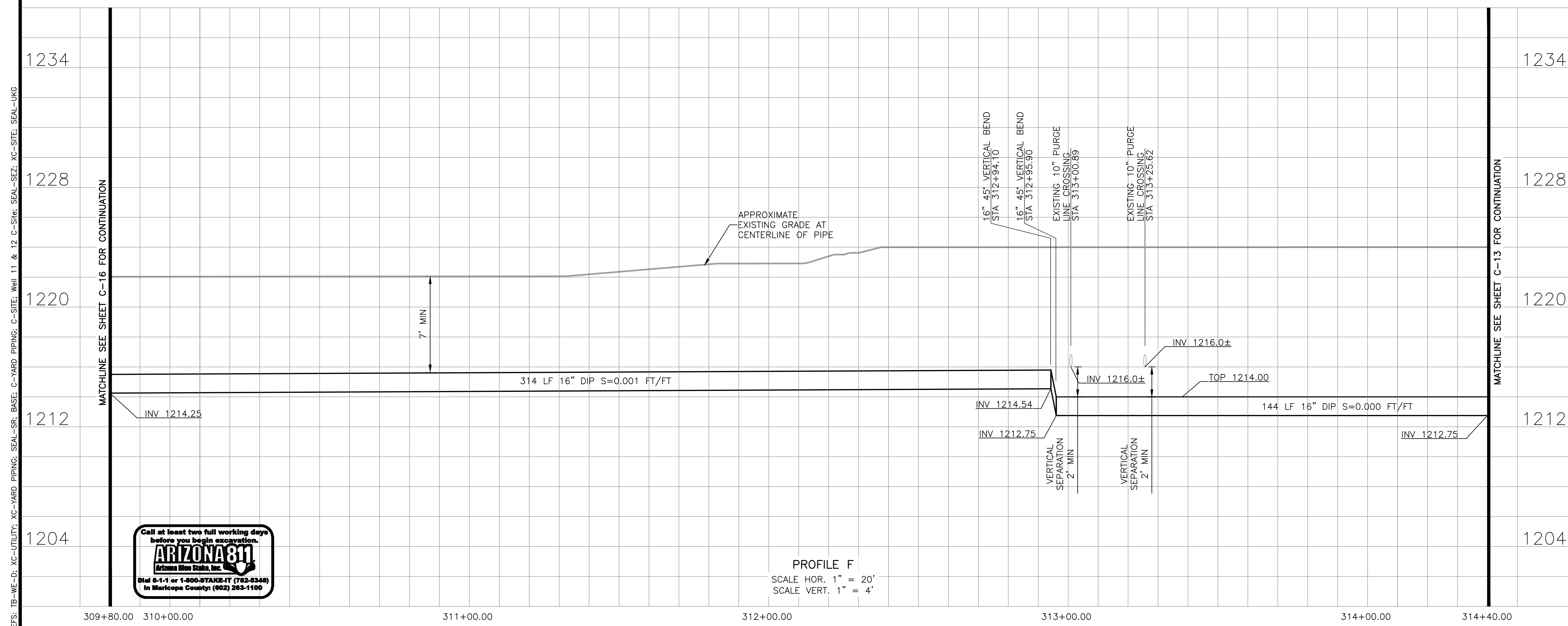
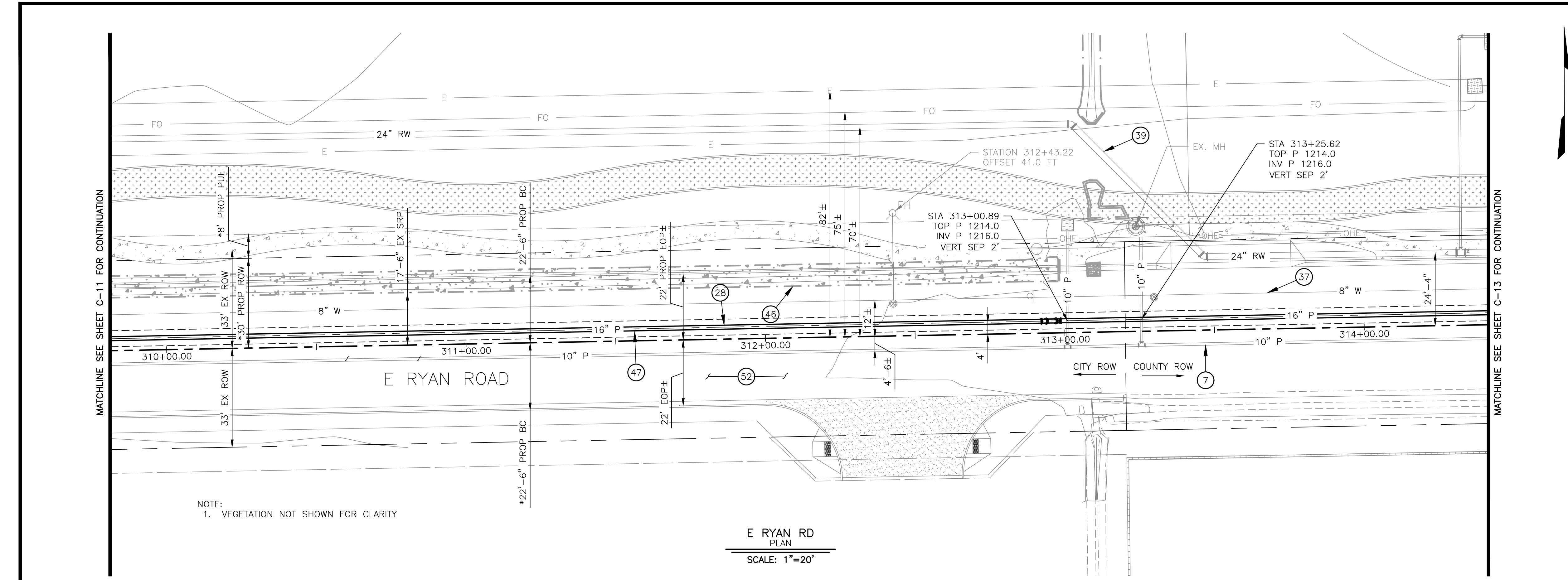
CITY OF CHANDLER  
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Sheet No.C-11A



**KEYED NOTES**

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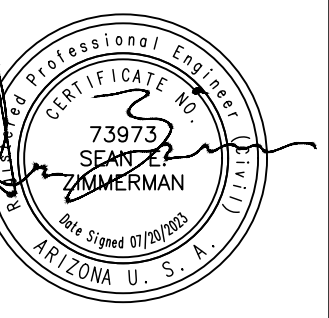
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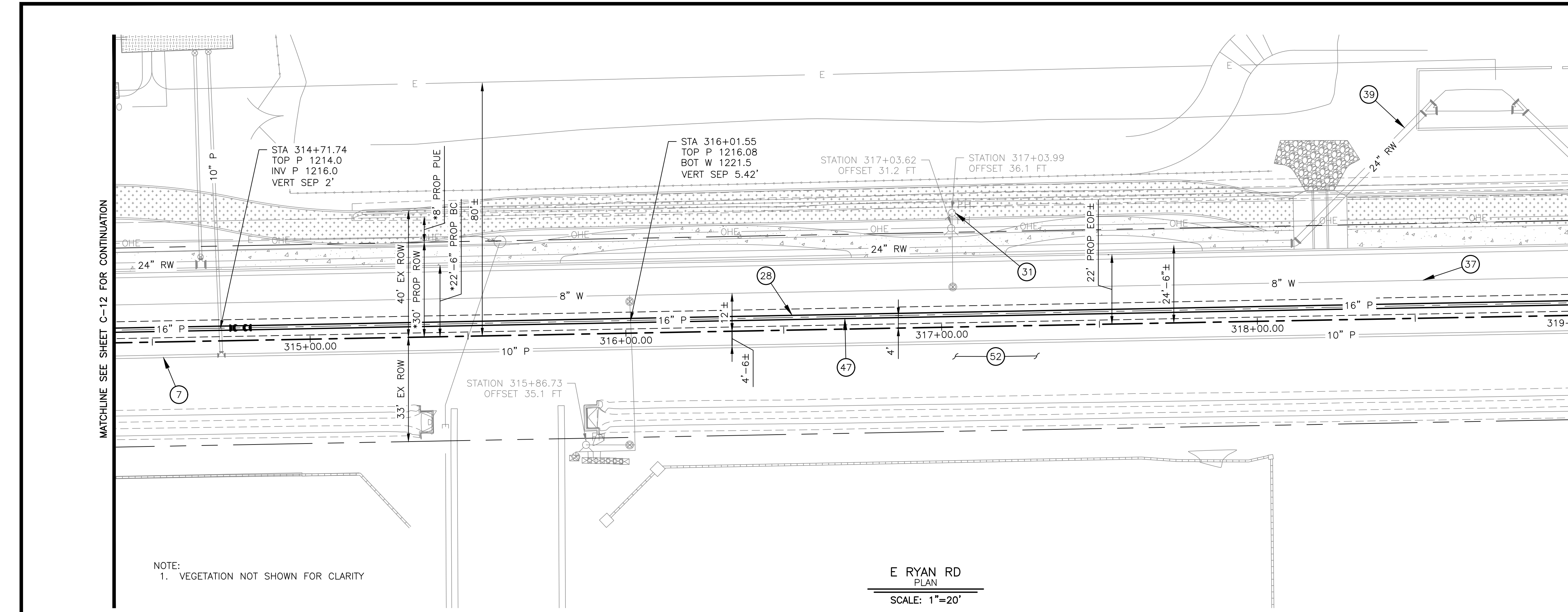
CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 12  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

Design: CPA	Drawn: CMD	Checked: SEZ
Date: 08/2024	Wilson Project No.: 22016	
Rev#	Date	Description
		By

**VERIFY SCALES**  
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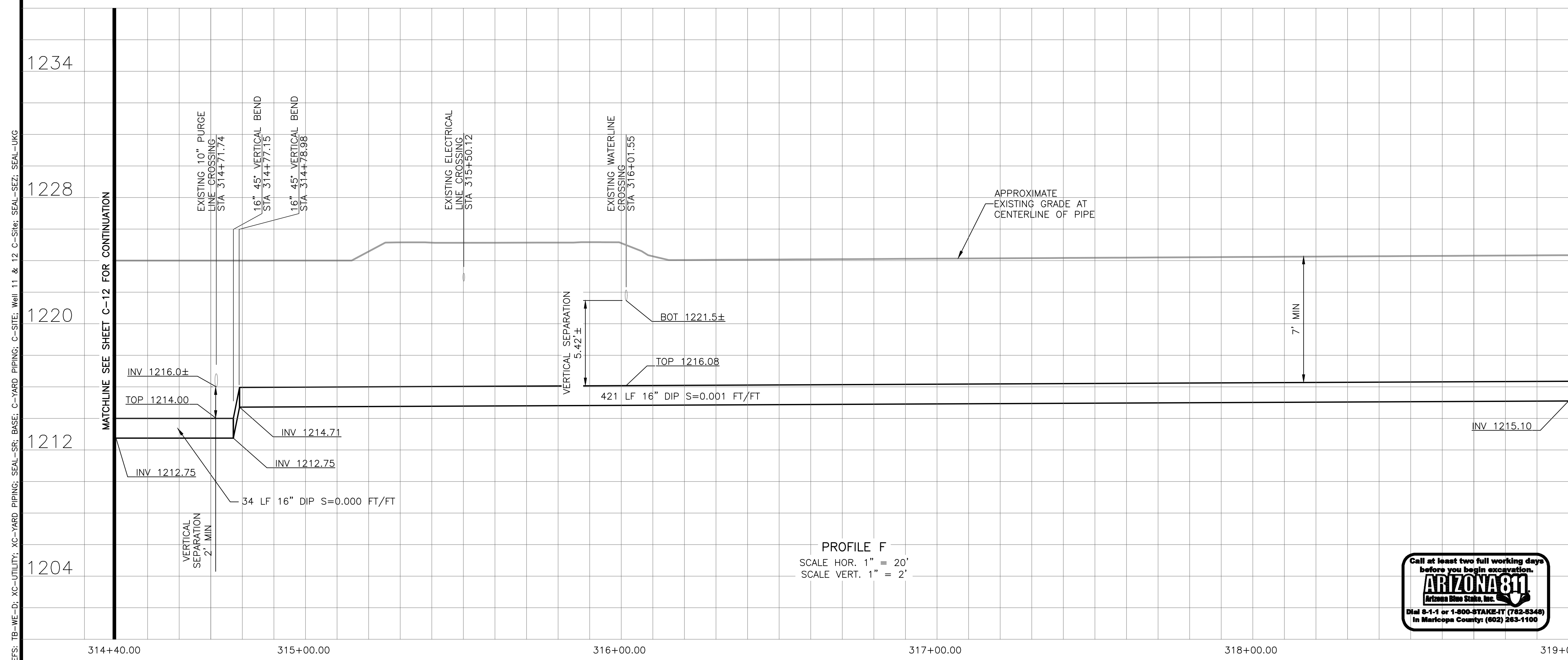


Sheet No. C-12



NOTE:  
1. VEGETATION NOT SHOWN FOR CLARITY

E RYAN RD  
PLAN  
SCALE: 1"=20'



PROFILE F  
SCALE HOR. 1" = 20'  
SCALE VERT. 1" = 2'



KEYED NOTES

- 7 EXISTING 10" PURGE LINE
- 28 16" DIP PURGE LINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
- 31 EXISTING FIRE HYDRANT TO BE RELOCATED BY OTHERS AS SHOWN, SEE SCHNITZER COMMERCE PARK PRELIMINARY PLAT PLANS - PLT23-0011
- 37 EXISTING 8" WATERLINE
- 39 EXISTING 24" RECLAIMED WATERLINE
- 47 A.B.C IN ACCORDANCE WITH "T-TOP" TRENCH REPAIR PER MAG STANDARD DETAIL 200
- 52 PAVEMENT STRIPING SHALL BE THERMOPLASTIC STRIPING OR MATCH EXISTING

GENERAL NOTES:

1. CONTRACTOR SHALL MAINTAIN A 2' MINIMUM VERTICAL CLEARANCE BETWEEN UTILITY CROSSINGS. IF SEPARATION DOES NOT MEET MINIMUM REQUIREMENTS, WET UTILITY ENCASEMENT SHALL BE REQUIRED PER MAG STD DTL 404.
2. THE MINIMUM DEPTH OF COVER UNDER PAVED STREETS SHALL BE 7' MINIMUM.
3. "\*": PROPOSED BY OTHERS; REFER TO OFFSITE IMPROVEMENTS PLANS - SCHRADER FARMS BUSINESS PARK - PHASE 1 - CIV21-0127, SCHNITZER COMMERCE PARK PRELIMINARY PLAT PLANS - PLT21-0011, RYAN ROAD IMPROVEMENTS UNION PACIFIC RR TO MCQUEEN ROAD - CIV22-0175.
4. CONTRACTOR SHALL MAINTAIN A 1.5' MINIMUM HORIZONTAL CLEARANCE BETWEEN CONCRETE ENCASEMENT AND PIPE JOINT
5. ALL IRRIGATION SYSTEMS SHALL BE RESTORED TO FULLY FUNCTIONING STATUS. ANY IRRIGATION LOCATED BENEATH ASPHALT OR CONCRETE SHALL BE SLEEVED WITH SCHEDULE 40 PVC TWO (2) NOMINAL SIZES LARGER.
6. ALL TREES AND VEGETATION IMPACTED BY THE CONSTRUCTION SHALL BE REPLACED WITH THE SAME SIZE AND TYPE AT A LOCATION DETERMINED BY THE CITY.

SURVEY NOTES:

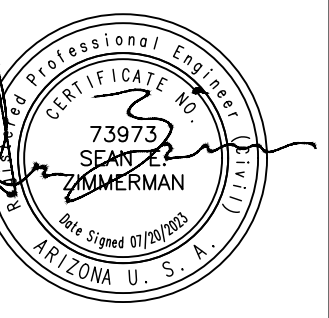
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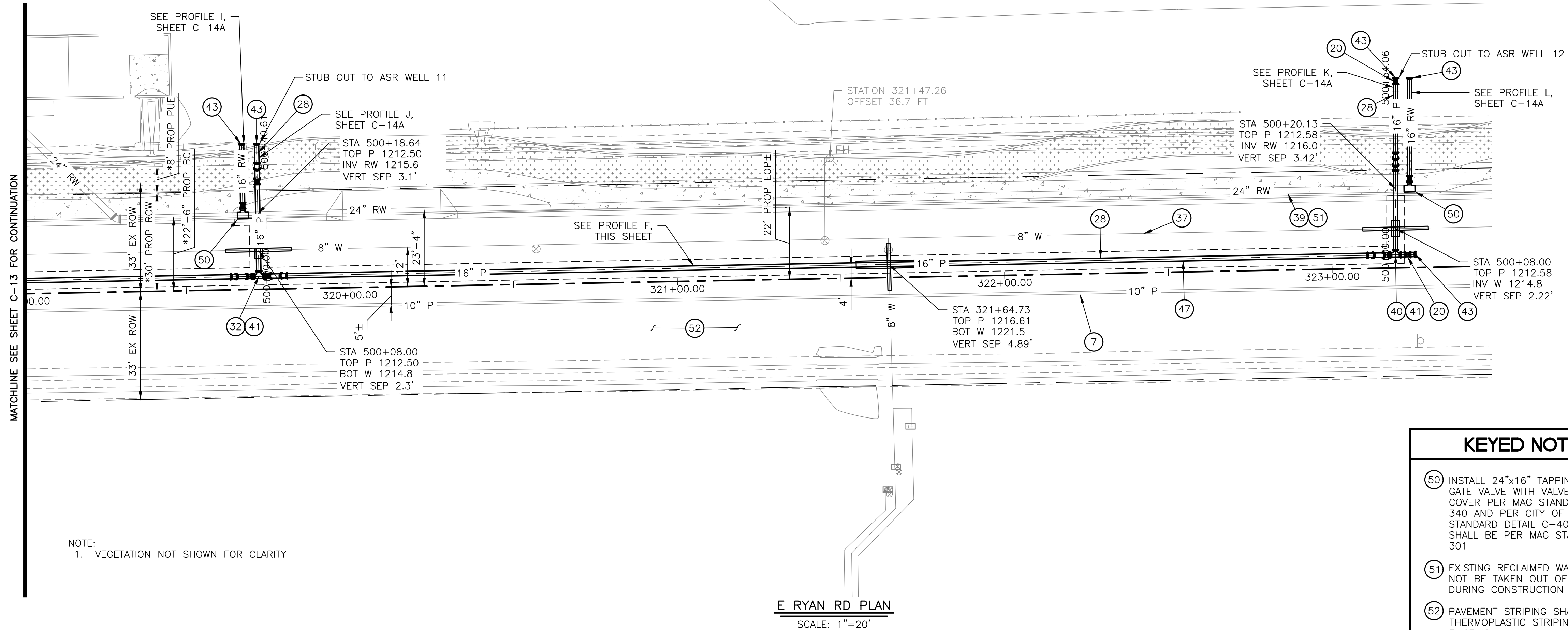
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CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 13  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

Design: CPA	Drawn: CMD	Checked: SEZ
Date: 08/2024	Wilson Project No.: 22016	
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VERIFY SCALES  
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0 1" 2" 3" 4" 5" 6" 7" 8" 9" 10"  
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E RYAN RD PLAN  
SCALE: 1"=20'

NOTE:  
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KEYED NOTES

- 7 EXISTING 10" PURGE LINE
- 20 16" GATE VALVE. CONCRETE COLLARS ARE REQUIRED FOR ALL VALVES IN PAVED AREAS PER MAG STANDARD DETAIL 391. INSTALL VALVE BOX PER CITY OF CHANDLER STANDARD DETAIL C-406 AND ADD BLOCKING PER MAG STANDARD DETAIL 301
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- 41 16" X 16" DIP TEE MJ FITTING, RESTRAINED
- 43 RESTRAINED 16" CAP
- 47 A.B.C IN ACCORDANCE WITH "T-TOP" TRENCH REPAIR PER MAG STANDARD DETAIL 200

KEYED NOTES

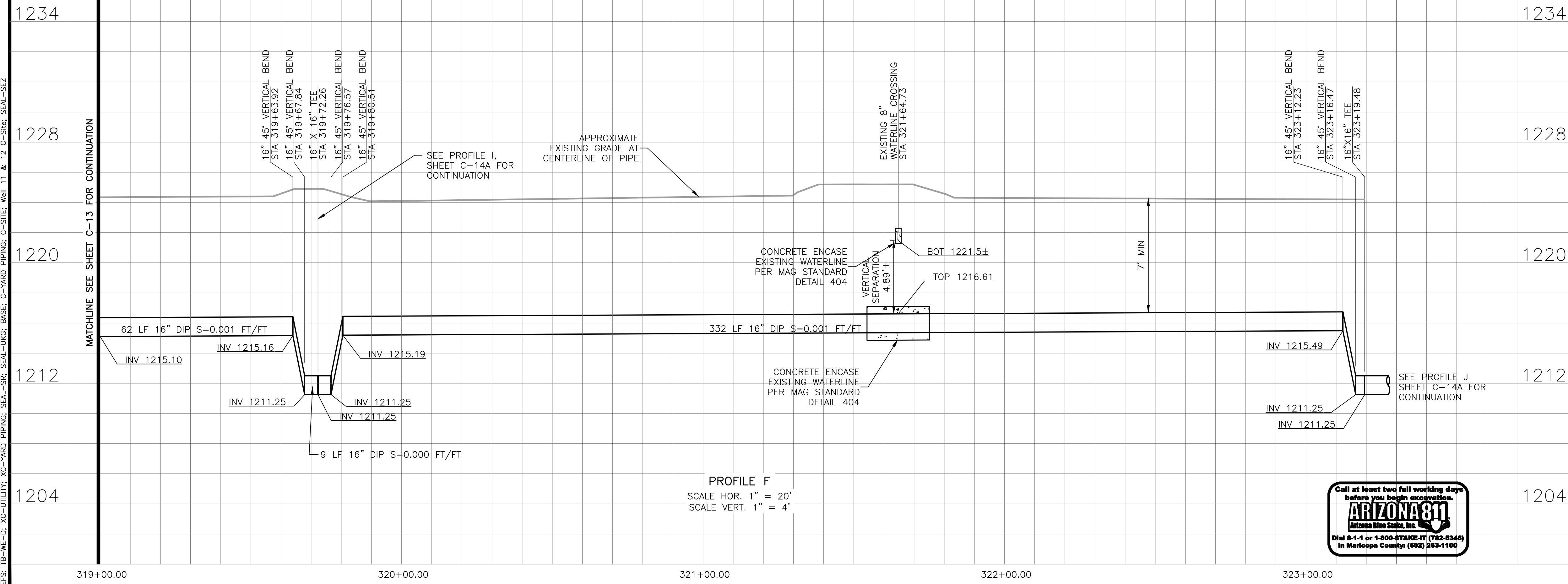
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PROFILE F  
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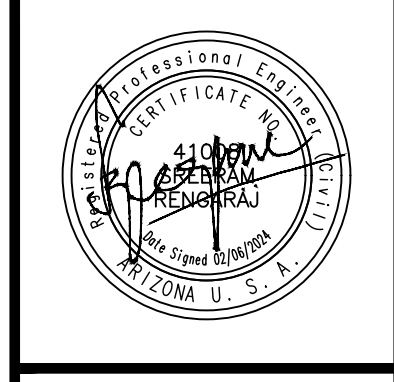
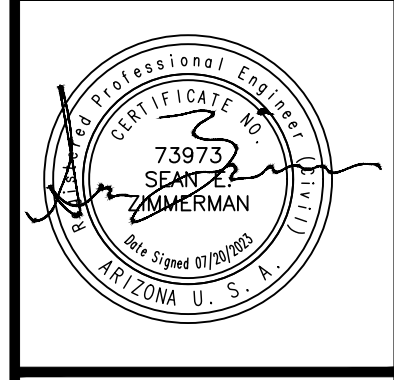
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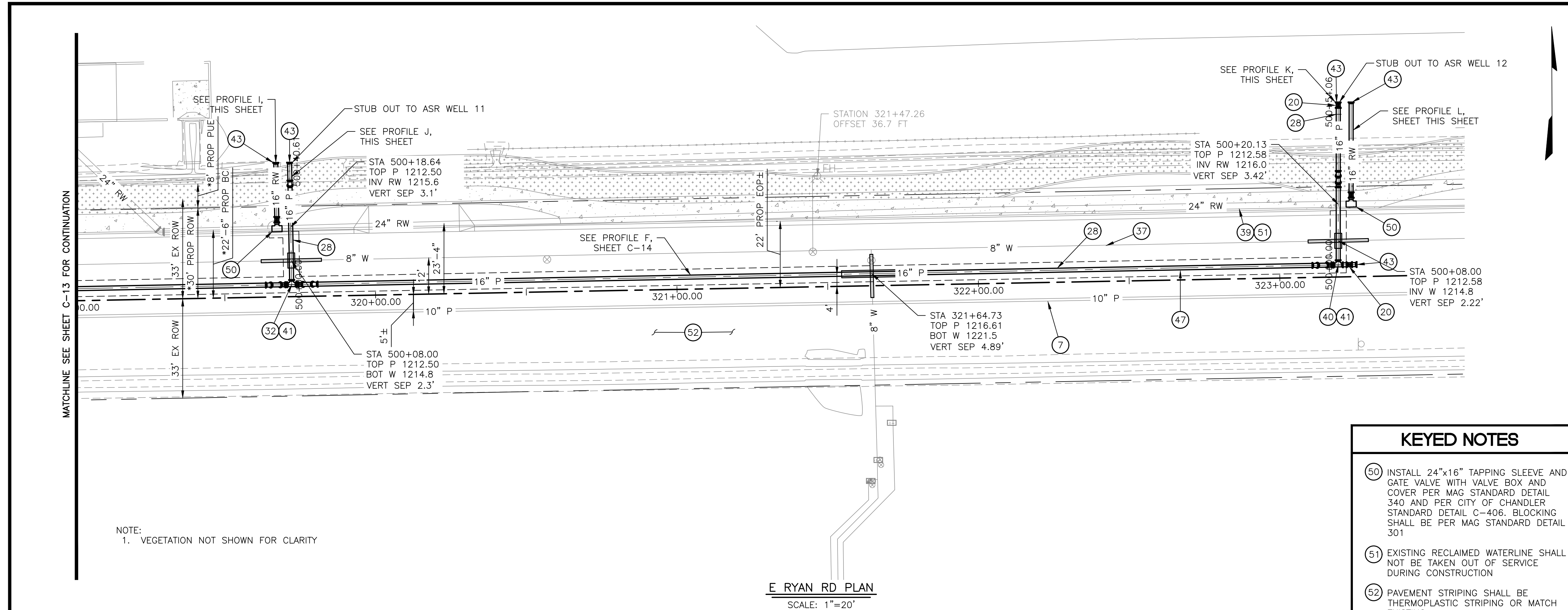
CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 14  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

Design: CPA	Drawn: CMD	Checked: SEZ
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Sheet No. C-14



**E RYAN RD PLAN**  
SCALE: 1"=20'

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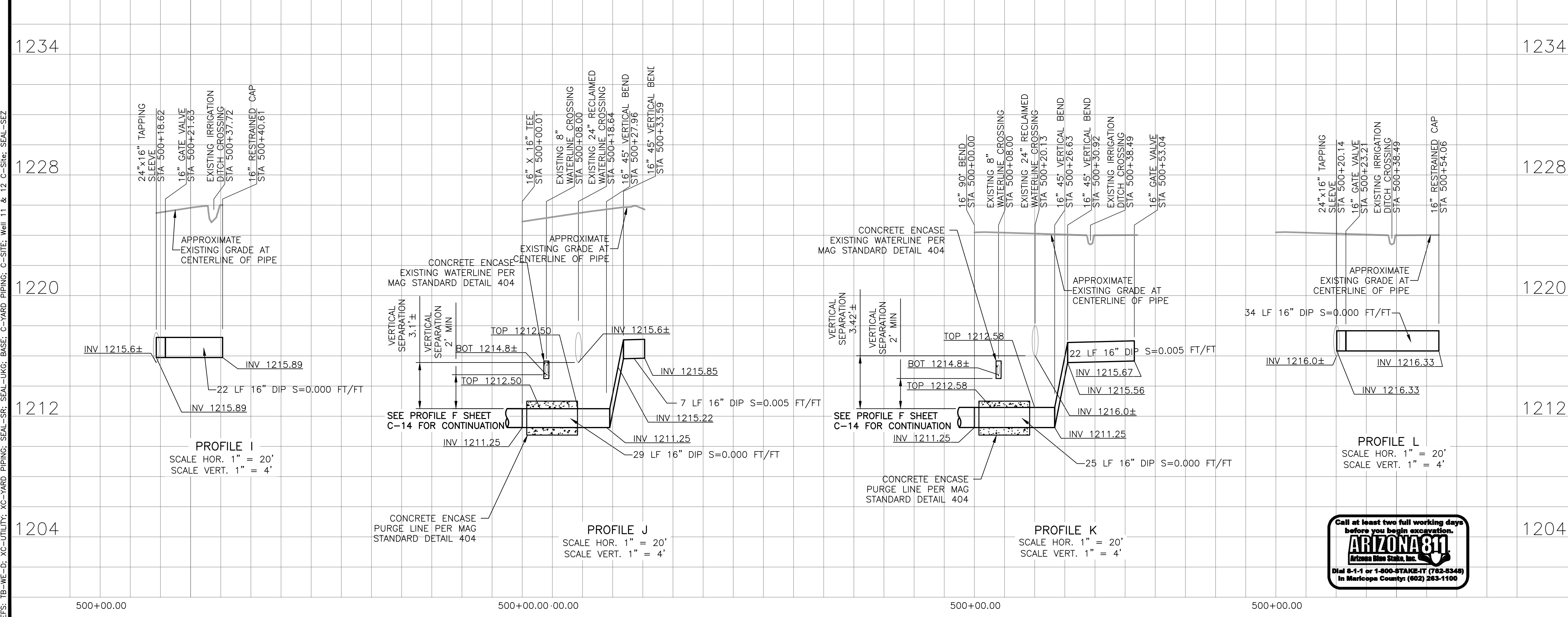
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**PROFILE I**  
SCALE HOR. 1" = 20'  
SCALE VERT. 1" = 4'

**PROFILE J**  
SCALE HOR. 1" = 20'  
SCALE VERT. 1" = 4'

**PROFILE K**  
SCALE HOR. 1" = 20'  
SCALE VERT. 1" = 4'

**PROFILE L**  
SCALE HOR. 1" = 20'  
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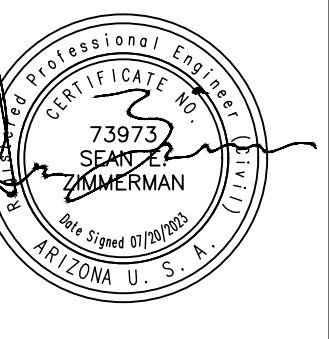


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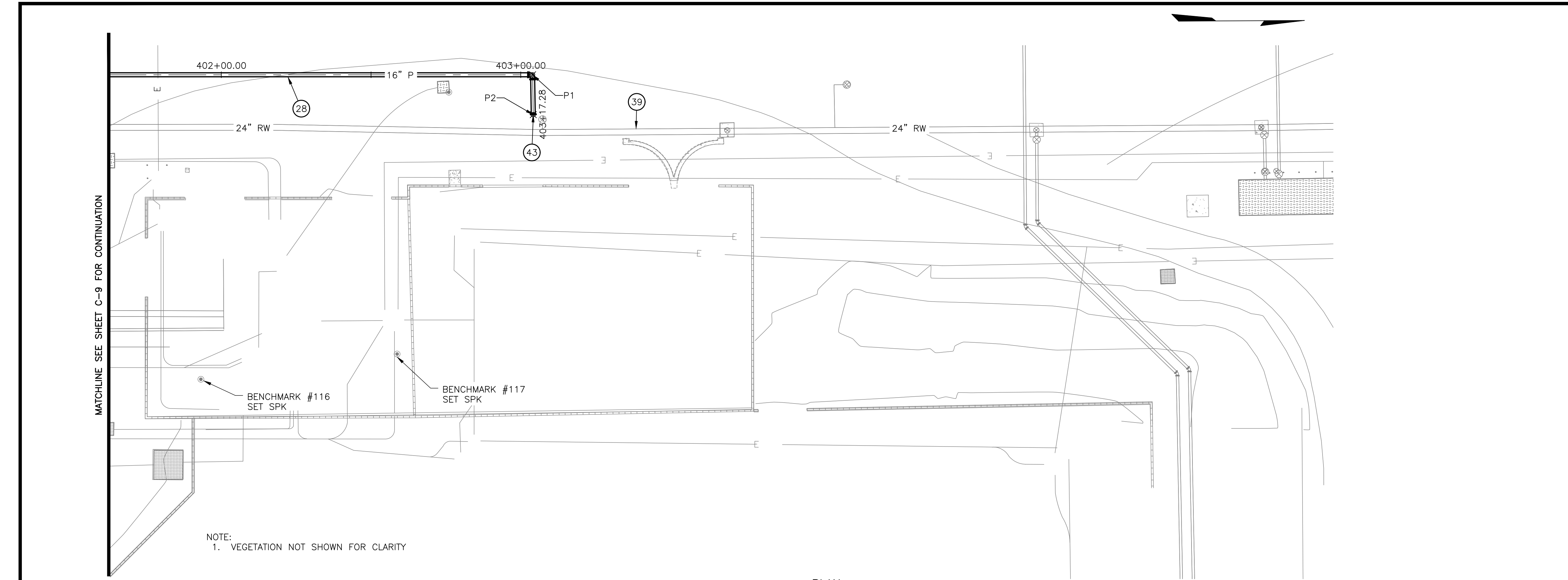
**WILSON ENGINEERS**

CITY OF CHANDLER	Checked: SEZ
RECLAIMED WATER CONVEYANCE IMPROVEMENTS	By
RECLAIMED WATER TRANSMISSION MAIN	Date
PLAN AND PROFILE 14	Description
CITY PROJECT NO. WW2206.201	Rev#
WILSON PROJECT NO. 22016	Date

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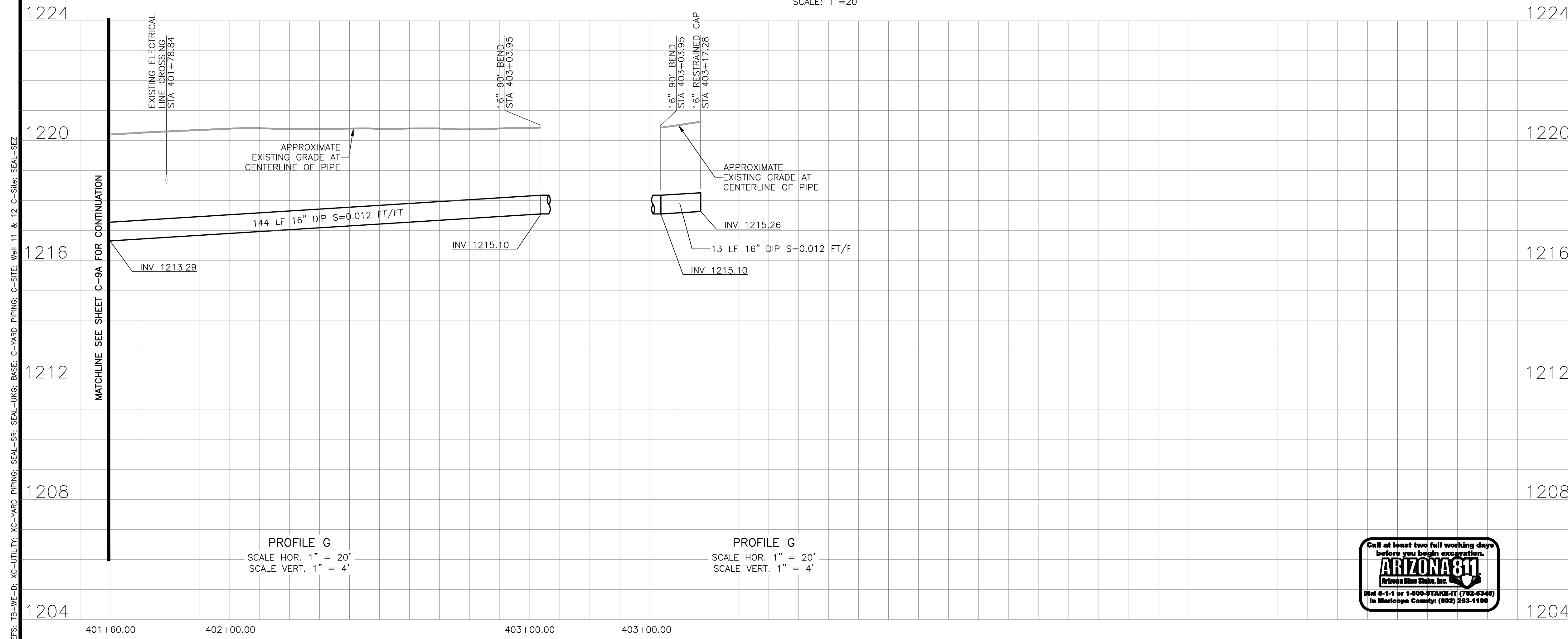






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PLAN  
SCALE: 1"=20'



PROFILE G  
SCALE HOR. 1" = 20'  
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PROFILE G  
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KEYED NOTES

- 28) 16" DIP PURGE LINE, FULLY RESTRAINED, PRESSURE CLASS 350, BEDDING AND BACKFILL PER DETAIL 101 ON SHEET M-1
- 39) EXISTING 24" RECLAIMED WATERLINE
- 43) RESTRAINED 16" CAP

POINT TABLE		
POINT #	NORTHING	EASTING
	825876.51	725698.43
	825876.28	725685.10

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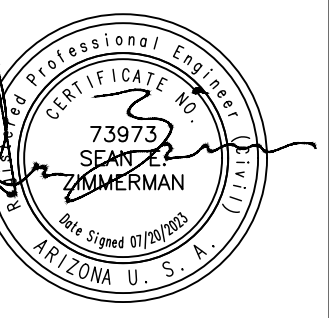
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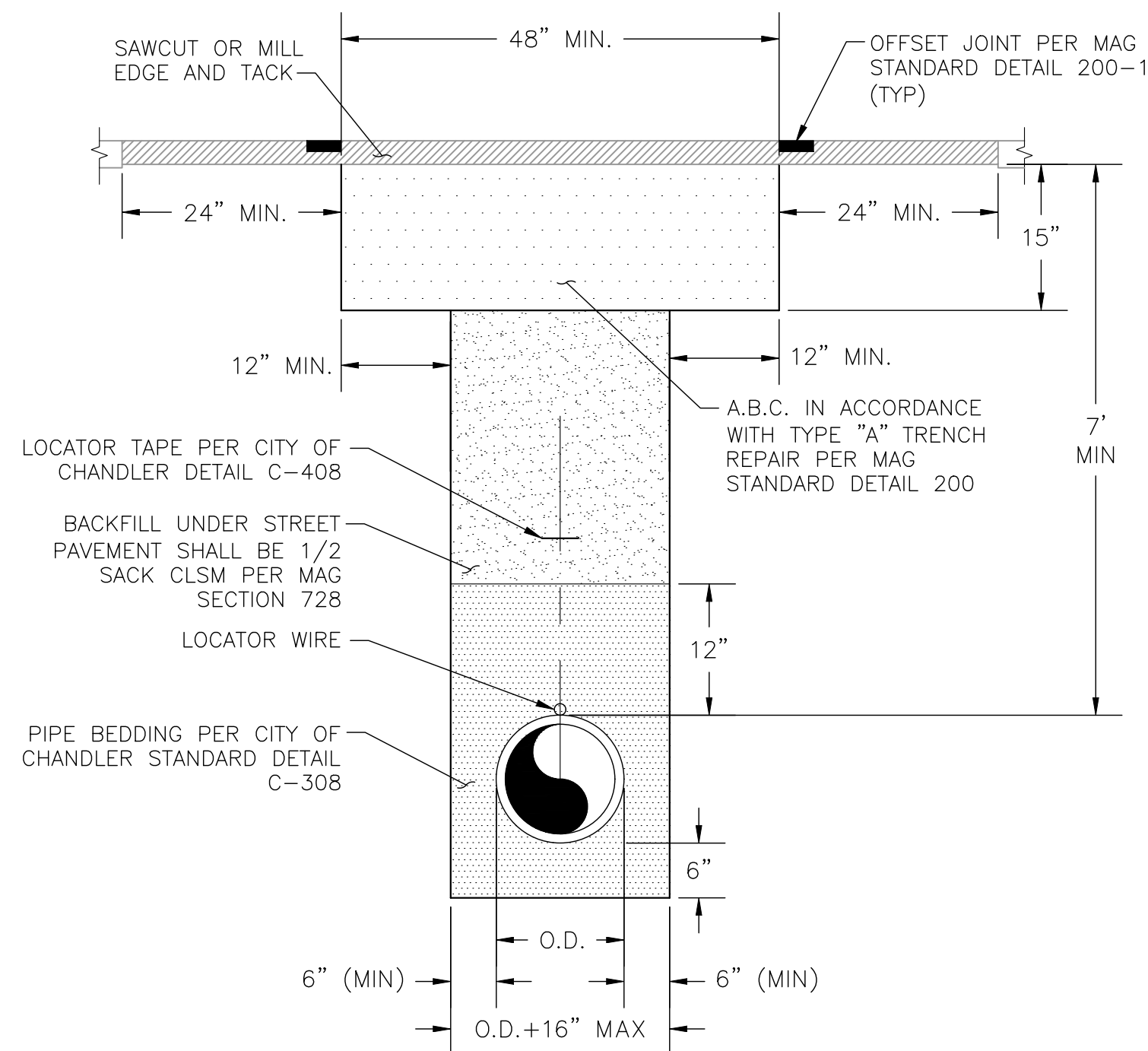


CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
PLAN AND PROFILE 15  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

Design: CPA	Drawn: CMD	Checked: SEZ
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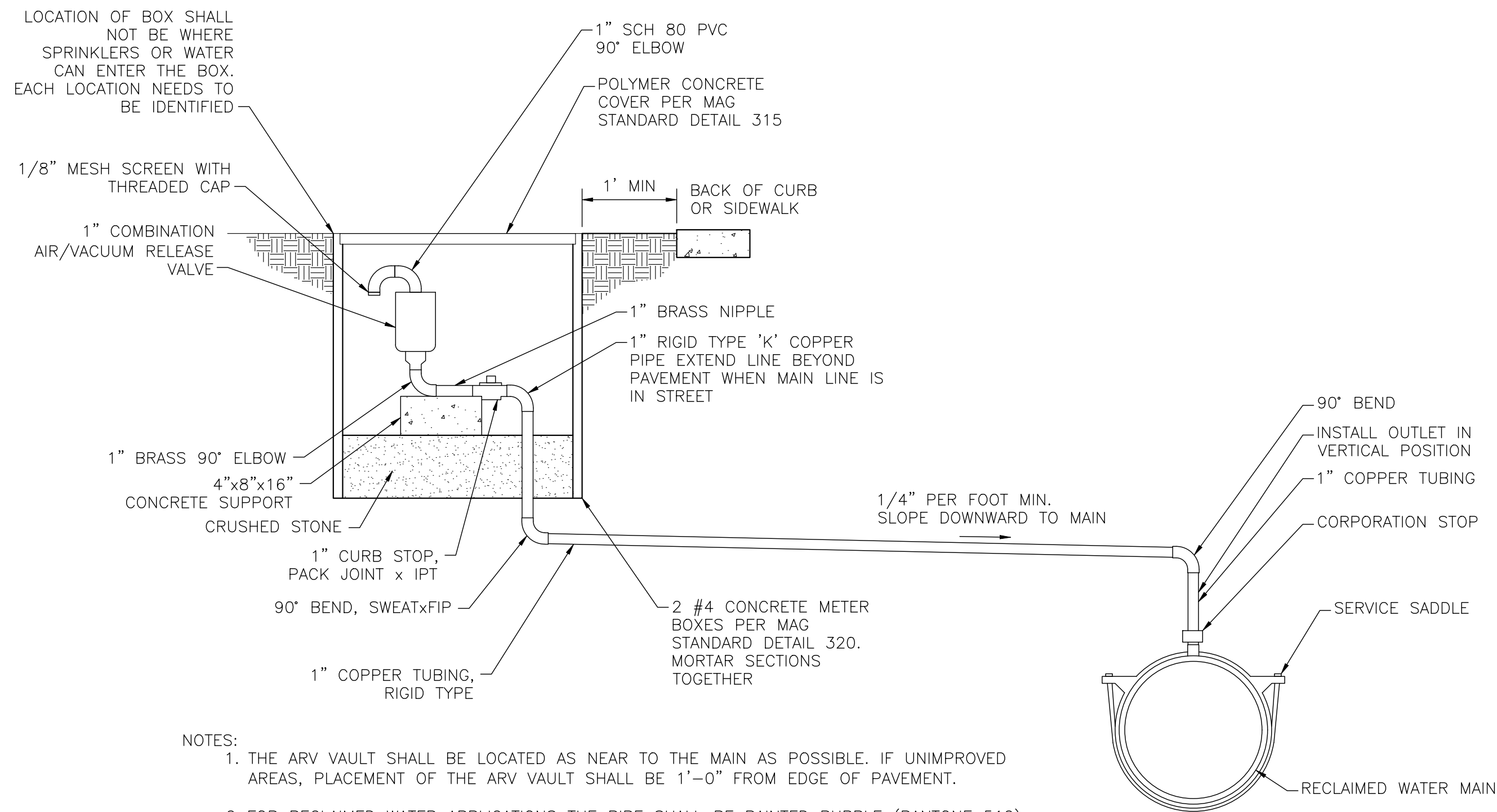


UNDER STREET PAVEMENT TRENCH DETAIL FOR RECLAIMED WATER PIPE LINE

NOTES:

- LOCATOR WIRES SHALL BE INSTALLED ALONG ALL PIPE RUNS ON TOP OF THE PIPE PER CITY OF CHANDLER DETAIL C-408.
- BASE, FINAL BACKFILL, AND PIPE EMBEDMENT ZONE COMPACTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH MAG SECTION 601.
- ASPHALT CONCRETE MIX DESIGN SHALL MEET THE REQUIREMENTS OF EAST VALLEY ASPHALT COMMITTEE (EVAC) AND MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT) SUPPLEMENT TO MAG SPECIFICATIONS AND DETAILS SECTION 710 WITHIN MCDOT RIGHT-OF-WAY.
- 2" SURFACE COURSE SHALL BE A-1/2 AND 3" PAVEMENT BASE ASPHALT CONCRETE SHALL BE A-3/4 ON THE EAST VALLEY ASPHALT COMMITTEE (EVAC) MOST CURRENT APPROVED LIST AT THE TIME OF PAVING.
- TRENCH EXCAVATION SHALL BE SLOPED, PROTECTED, SHORED OR BRACED IN COMPLIANCE WITH OSHA & ALL GOVERNING LOCAL, STATE & FEDERAL REGULATIONS.
- BACKFILL TO BE PLACED WITH A MAXIMUM LIFT THICKNESS OF 12". EXERCISE CARE TO AVOID "FLOATING" PIPE. WATER JETTING OR WATER CONSOLIDATION IS NOT ALLOWED.
- NO SECTION OF PIPE, PIPE APPURTENANCE OR STRUCTURE SHALL BE BACKFILLED UNTIL THE INSPECTOR HAS EXAMINED AND APPROVED THAT SECTION OF THE INSTALLATION.
- WHEN DIMENSION BETWEEN THE TRENCH WALL AND EXISTING LIP OF GUTTER IS LESS OR EQUAL TO 12 INCHES, REMOVE AND REPLACE ALL ASPHALT CONCRETE BOTH BASE AND SURFACE COURSE BETWEEN THE TRENCH AND LIP OF GUTTER.
- SEE MAG SECTION 601 FOR ADDITIONAL TRENCH EXCAVATION, BACKFILLING AND COMPACTION REQUIREMENTS.

DETAIL 101  
NOT TO SCALE

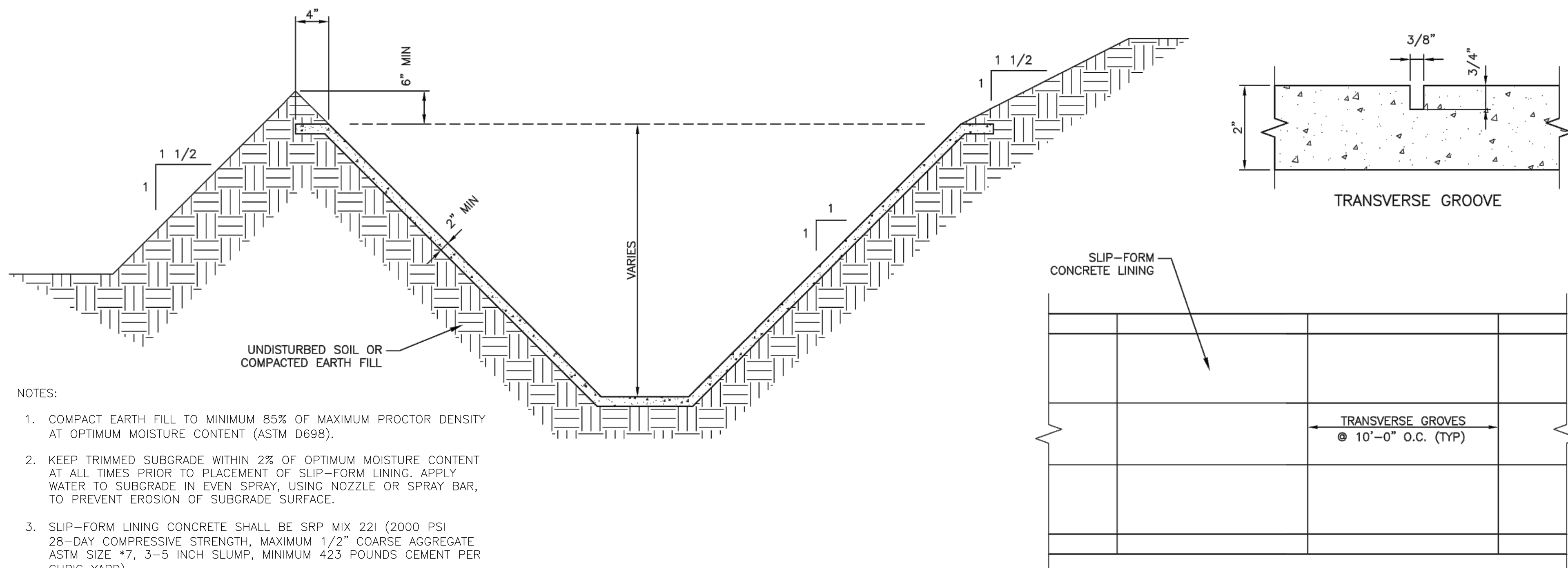


NOTES:

- THE ARV VAULT SHALL BE LOCATED AS NEAR TO THE MAIN AS POSSIBLE. IF UNIMPROVED AREAS, PLACEMENT OF THE ARV VAULT SHALL BE 1'-0" FROM EDGE OF PAVEMENT.
- FOR RECLAIMED WATER APPLICATIONS THE PIPE SHALL BE PAINTED PURPLE (PANTONE 512). POTABLE WATER SHALL BE PAINTED BLUE.
- AIR RELEASE/VACUUM VALVE SHALL BE PER CITY LIST OF APPROVED PRODUCTS.
- SHALL NOT BE PLACED IN LOW AREAS WHERE WATER MAY COLLECT.
- TYPE K COPPER TO BE USED FOR ALL THE TUBING.

2" COMBINATION AIR/VACUUM VALVE ASSEMBLY

DETAIL 102  
NOT TO SCALE



NOTES:

- COMPACT EARTH FILL TO MINIMUM 85% OF MAXIMUM PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT (ASTM D698).
- KEEP TRIMMED SUBGRADE WITHIN 2% OF OPTIMUM MOISTURE CONTENT AT ALL TIMES PRIOR TO PLACEMENT OF SLIP-FORM LINING. APPLY WATER TO SUBGRADE IN EVEN SPRAY, USING NOZZLE OR SPRAY BAR, TO PREVENT EROSION OF SUBGRADE SURFACE.
- SLIP-FORM LINING CONCRETE SHALL BE SRP MIX 221 (2000 PSI 28-DAY COMPRESSIVE STRENGTH, MAXIMUM 1/2" COARSE AGGREGATE ASTM SIZE #7, 3-5 INCH SLUMP, MINIMUM 423 POUNDS CEMENT PER CUBIC YARD).
- INSTALL SLIP-FORM LINING TO ALIGNMENT AND GRADE SHOWN ON DRAWINGS. VARIATION FROM ALIGNMENT AND GRADE SHALL NOT EXCEED 0.1 FOOT IN TEN FEET, AND DEPARTURE FROM OR RETURN TO SHALL BE NO MORE THAN 0.1 FOOT IN TEN FEET, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- APPLY WHITE-PIGMENTED CURING COMPOUND TO CONCRETE LINING WITHIN ONE HOUR AFTER PLACING CONCRETE.

NOTE:

ADAPTED FROM SRP WATER ENGINEERING TECHNICAL MANUAL - DETAIL 3-01 SLIP FORM DESIGN

PRIVATE SLIP-FORM LINING SECTION

DETAIL 106  
NOT TO SCALE

XREFS: TB-WE-D, SEAL-UNG, SEAL-UNG, DETAIL 04, DETAIL 03, DETAIL 02, DETAIL 01, SEAL-SEZ

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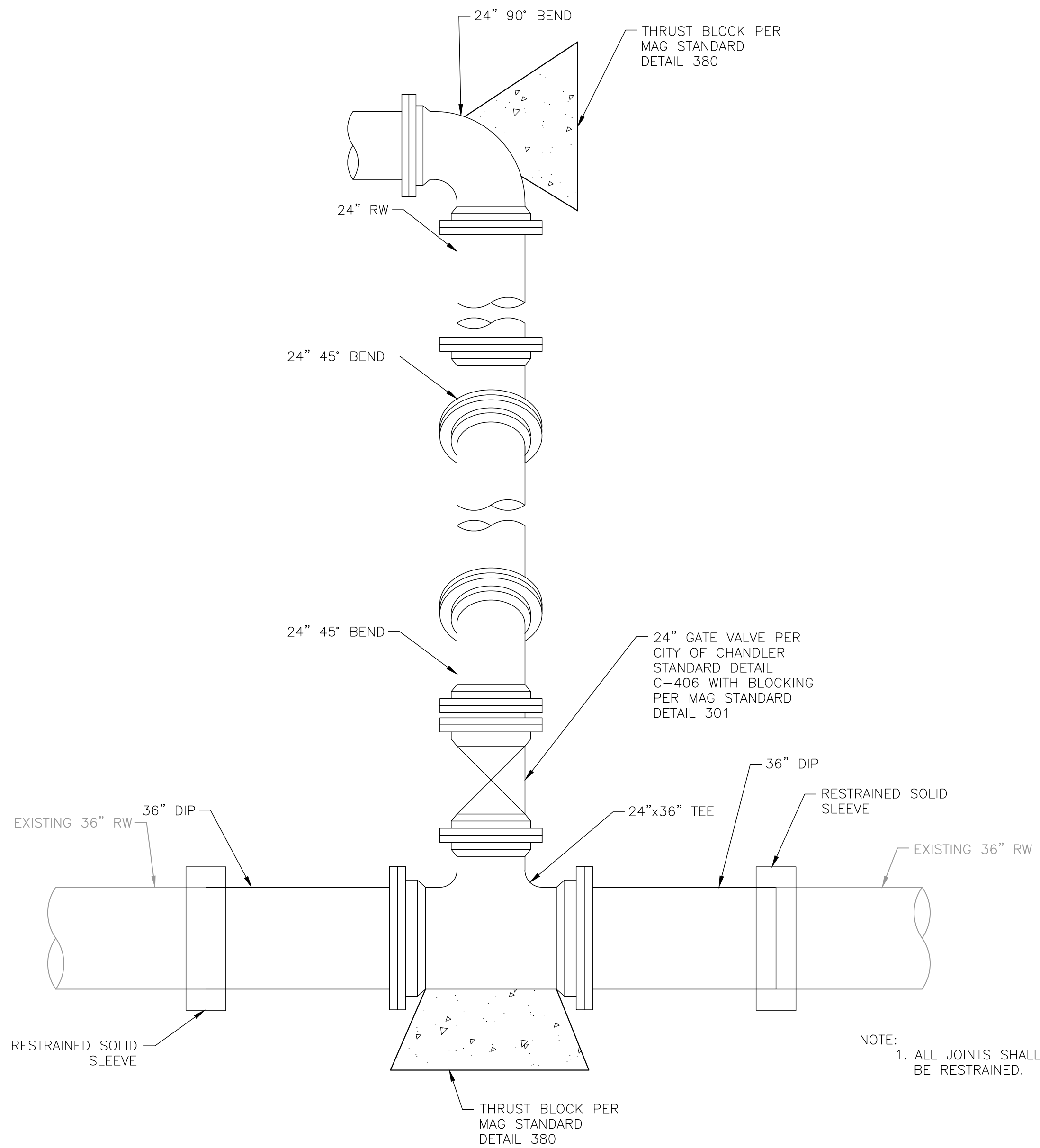
CITY OF CHANDLER  
RECLAIMED WATER CONVEYANCE IMPROVEMENTS  
RECLAIMED WATER TRANSMISSION MAIN  
MISCELLANEOUS DETAILS 1  
CITY PROJECT NO. WW2206.201  
WILSON PROJECT NO. 22016

Design: KR	Drawn: A/M	Checked: AEP
Date: 08/2024	Wilson Project No.: 22016	
Rev#	Date	Description

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1" 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

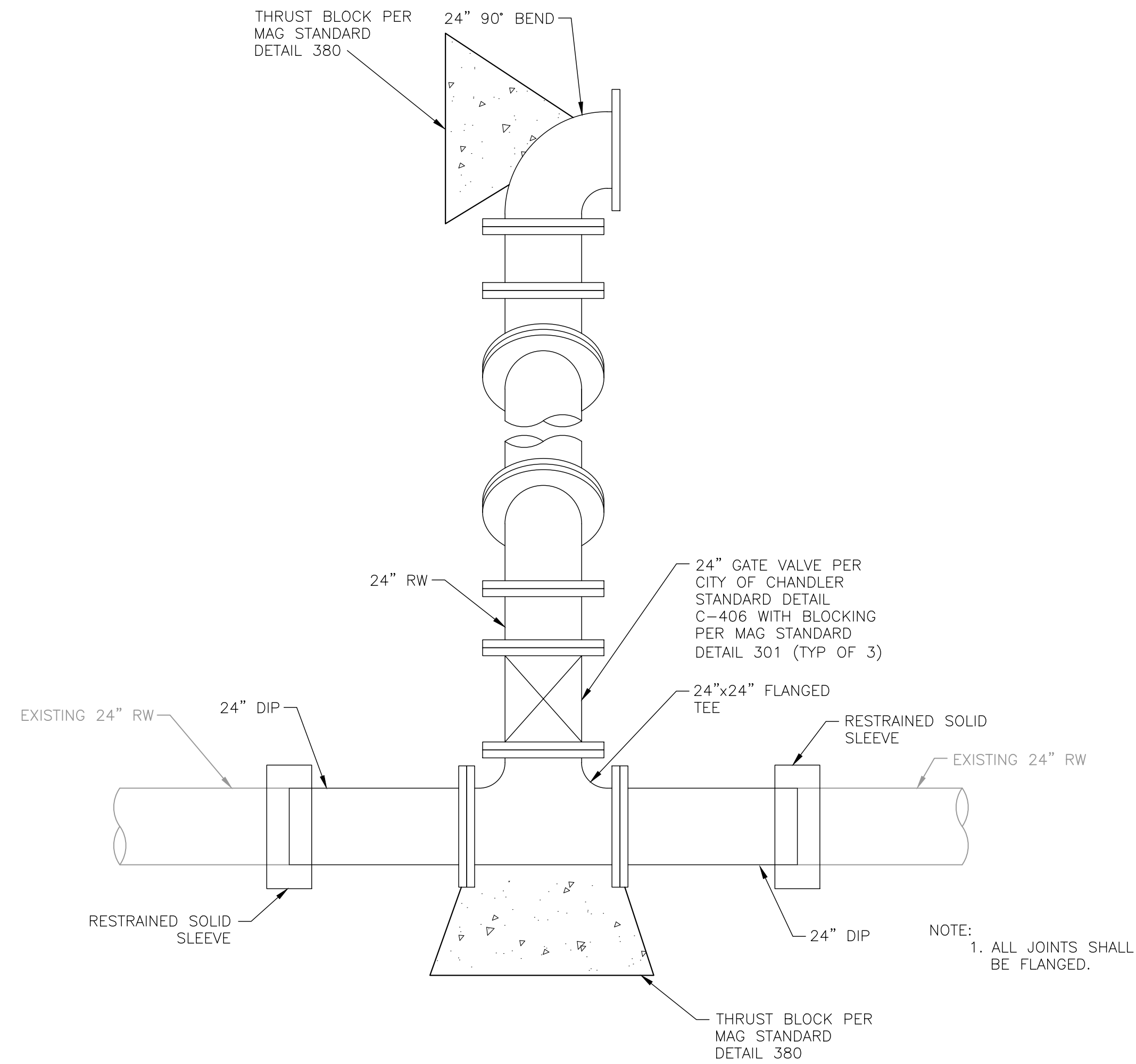


XREFS: TB=WE-D, SEAL-SR, SEAL-LUG, DETAIL 04; DETAIL 03; DETAIL 02; DETAIL 01; SEAL-SFZ; DETAIL 05



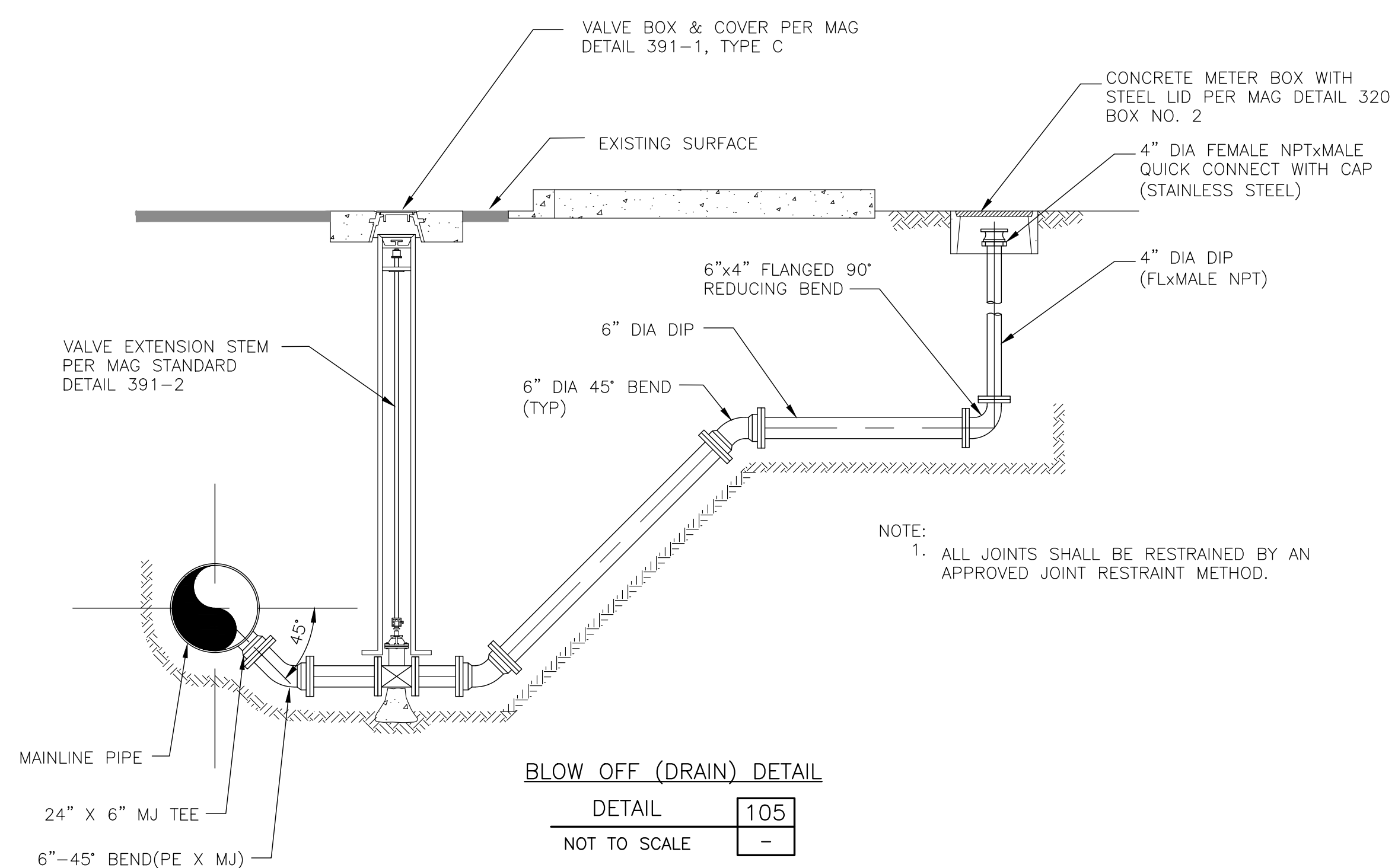
CONNECTION TO EXISTING 36" DIAMETER RECLAIMED WATERLINE

DETAIL	103
NOT TO SCALE	-



CONNECTION TO EXISTING 24" DIAMETER RECLAIMED WATERLINE

DETAIL	104
NOT TO SCALE	-



BLOW OFF (DRAIN) DETAIL

DETAIL	105
NOT TO SCALE	-

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MISCELLANEOUS DETAILS 2  
 CITY PROJECT NO. WW2206.201  
 WILSON PROJECT NO. 22016

Design: KR	Drawn: AMA	Checked: AEP
Date: 08/2024	Wilson Project No.: 22016	
Rev#	Date	Description

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"

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Sheet No. M-2