

CITY OF GLOBE, ARIZONA 4TH STREET WATER LINE REPLACEMENT MAPLE STREET TO ASH STREET



ENGINEER

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OWNER

CITY OF GLOBE
150 NORTH PINE STREET
GLOBE, ARIZONA 85501
CONTACT: VINCE MARISCAL, WATER FACILITIES MANAGER
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SITE BENCHMARKS

BRASS CAP STEM IN HAND HOLE AT THE INTERSECTION OF HIGHWAY 60 AND 4TH STREET.
ELEVATION = 3603.61' (ASSUMED DATUM)

BRASS CAP STEM IN HAND HOLE AT THE INTERSECTION OF HIGHWAY 60 AND 5TH STREET.
ELEVATION = 3615.54' (ASSUMED DATUM)

BASIS OF BEARING

THE WEST 1/2 EAST 1/2 NORTHEAST QUARTER OF SECTION 35 AS SHOWN IN RECORD OF SURVEY. 2007-011459, GILA COUNTY RECORDS. SAID LINE BEARS SOUTH 00 DEGREES 19 MINUTES 49 SECONDS WEST (RECORD 00 DEGREES 04 MINUTES 21 SECONDS EAST).

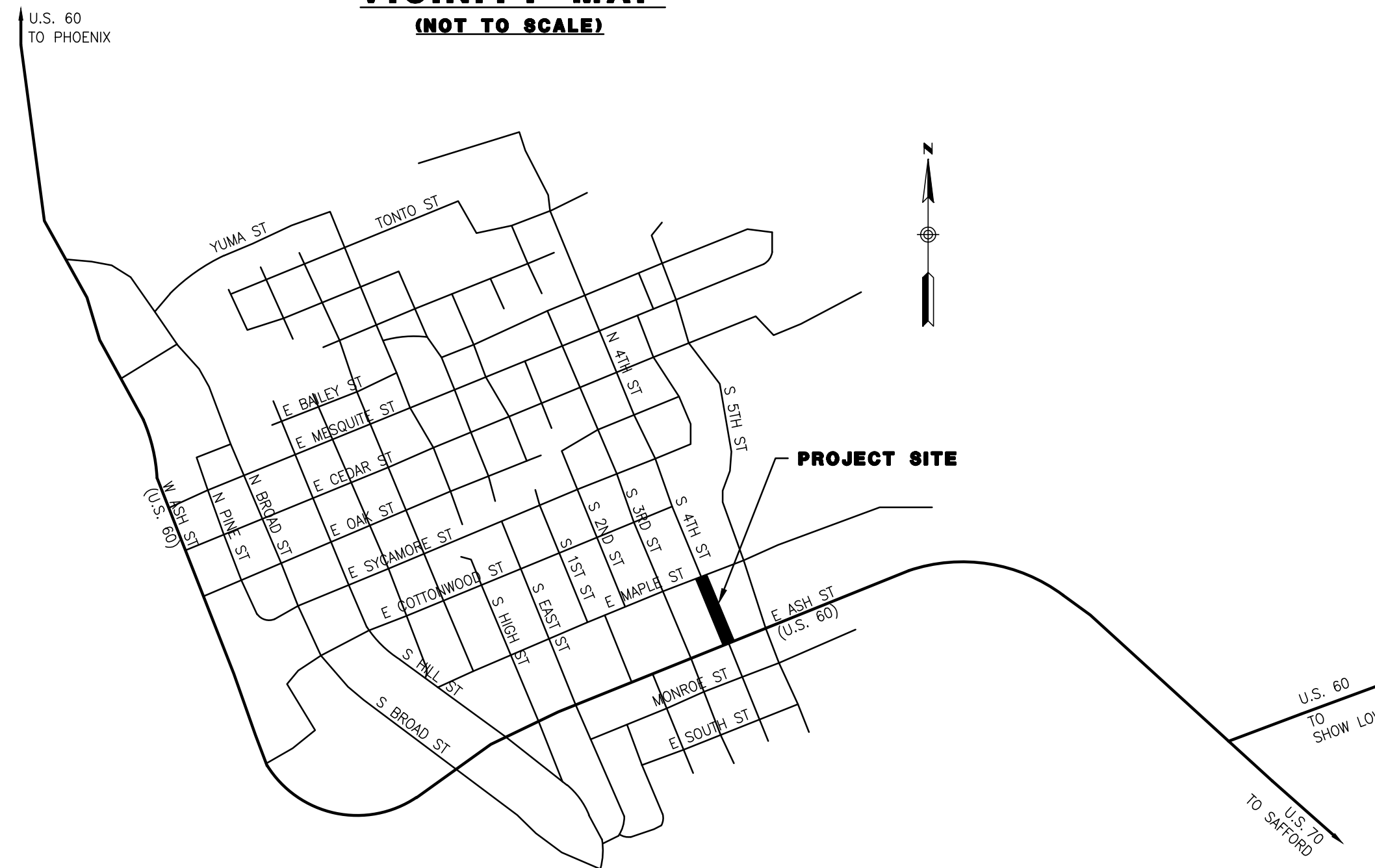
UTILITY COORDINATION

UTILITY OWNER	UTILITY	REPRESENTATIVE	PHONE NO.
CITY OF GLOBE	WATER AND SEWER	VINCE MARISCAL	(928) 200-3480
CABLE ONE-GLOBE (SPARKLIGHT)	CATV/FIBER OPTIC	CHRIS GUTHREY	(928) 812-3816
LUMEN (CENTURYLINK)	CATV/FIBER OPTIC	NATE HICKS	(502) 838-3038
ARIZONA EASTERN RAILWAY CO.	RAILROAD FACILITIES	CESAR CUEVAS	(928) 812-3457
ARIZONA PUBLIC SERVICE	ELECTRIC	BRYAN GOSLIN	(928) 200-0061
ADOT-TUCSON	ELECTRIC	GUSTAVO RUIZ	(520) 262-5909
SOUTHWEST GAS	GAS	FERNANDO SOTO HERNANDEZ	(520) 794-6321

PLAN SHEET LEGEND

	- WATER METER		- CENTERLINE
	- STREET SIGN		- EXISTING
	- PARKING METER		- STATION
	- UTILITY POLE		- LINEAR FEET
	- GAS METER		- SQUARE FEET
	- GAS VALVE		- SQUARE YARDS
	- MAILBOX		- EACH
	- DOWNGUY		- TYPICAL
	- GUARDRAIL		- LEFT
	- FENCE		- RIGHT
	- SEWER MAIN		- DUCTILE IRON PIPE
	- BURIED TELE. LINE		- CLEARANCE
	- GAS LINE		- SADDLE CONNECTION
	- WATER VALVE		- GRADE BREAK
	- FIRE HYDRANT		- AIR RELEASE VALVE
	- REDUCER FITTING		- OVERHEAD ELECTRIC LINE
			- RIGHT OF WAY

VICINITY MAP (NOT TO SCALE)

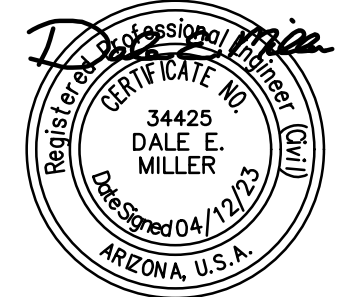


Sheet List Table

Sheet Number	Sheet Title	Sheet Description
1	CV-01	COVER SHEET
2	GN-01	GENERAL NOTES
3	GN-02	DETAILS
4	PLPR-01	PLAN & PROFILE
5	STP-01	PAVEMENT MARKING PLAN

QUANTITY ESTIMATE

ITEM #	ITEM DESCRIPTION	QTY	UNIT
1	REMOVE & REPLACE ASPHALT PAVEMENT, 3" AC ON 6" ABC	232	SY
2	REMOVE & REPLACE CONCRETE VALLEY GUTTER	30	SF
3	REMOVE & REPLACE CONCRETE CURB & 4' WIDE GUTTER PAN	36	SF
4	REMOVE & REPLACE CONCRETE SIDEWALK	20	SF
5	CONNECT TO EXISTING WATER LINE, 6" DIA	2	EA
6	INSTALL WATER LINE, MUNICIPEX PIPE, 2" DIA	479	LF
7	INSTALL WATER SERVICE LINE, MUNICIPEX PIPE, 3/4" DIA	77	LF
8	INSTALL WATER SERVICE LINE, MUNICIPEX PIPE, 2" DIA, FOR SCHOOL	35	LF
9	INSTALL GATE VALVE, 2" DIA	2	EA
10	INSTALL AIR RELEASE VALVE	1	EA
11	CAP & ABANDON EXISTING WATER LINE, 2" DIA.	3	EA
12	CONSTRUCT DOUBLE CHIP SEAL STREET SURFACING - SEE ACCOMPANYING BID SCHEDULE	2,045	SY
13	APPLY CENTER LINE STRIPING, YELLOW TRAFFIC PAINT, 4" WIDTH	271	SF
14	APPLY CROSSWALK STRIPING, WHITE TRAFFIC PAINT, 6" WIDTH	105	SF
15	APPLY STOP BAR STRIPING, WHITE THERMOPLASTIC, 24" WIDTH	78	SF
16	TRAFFIC CONTROL	1	LS
17	MOBILIZATION	1	LS



SEAL: **DALE E. MILLER**
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PROJECT NO: 6642
DRAWN/DESIGNED BY: K. ROECKNER
CHECKED BY: D. MILLER
DATE: 4/12/2023

**4TH STREET
WATER LINE REPLACEMENT
CITY OF GLOBE, AZ**

COVER SHEET



DRAWING NO.
CV-01
SHEET NO. 1 OF 5

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RICK ENGINEERING COMPANY NOTES

GENERAL

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL IMPROVEMENTS ARE BUILT, CONSTRUCTED, AND/OR INSTALLED IN ACCORDANCE WITH THESE PROJECT PLANS AND THE TECHNICAL SPECIFICATIONS FOR THE WORK
2. THE CONTRACTOR IS RESPONSIBLE FOR THE SURVEY, LAYOUT, AND STAKING OF THE PROPOSED IMPROVEMENTS FOR CONSTRUCTION PURPOSES
3. IF THERE ARE ANY QUESTIONS REGARDING THE PLANS OR THE INTENT OF THE DESIGN, THE CONTRACTOR SHALL CONTACT THE ENGINEER AND DISCUSS THE ISSUE SO THAT IT IS CLARIFIED OR RESOLVED PRIOR TO THE START OF CONSTRUCTION
4. THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS AND PRECAUTIONS TO PROTECT AND SAFEGUARD ADJACENT IMPROVEMENTS AND PROPERTY FROM DAMAGE DUE TO CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND OBTAINING ANY PERMITS NEEDED TO COMPLETE THE PROJECT, POTENTIALLY INCLUDING AN AGENCY BUSINESS LICENSE, RIGHT OF WAY WORK PERMIT, WATER USAGE AGREEMENT, ETC., AND INCLUDE THE COSTS FOR THE SAME, IF ANY, IN THE PROJECT BID PRICES
6. THE CONTRACTOR SHALL ALSO EMPLOY EFFECTIVE STORM WATER MANAGEMENT TO PREVENT EROSION AND/OR SILT AND DEBRIS FROM LEAVING THE CONSTRUCTION SITE DURING THE ENTIRE DURATION OF THE PROJECT BY APPROPRIATE MEANS INCLUDING THE USE OF SAND BAGS, WADDLES, HAY BALES, TEMPORARY SILTATION BASINS, SILT DIKES/DAMS, SHORING, ETC.
7. ALL PROJECT IMPROVEMENTS INCLUDING BUT NOT LIMITED TO MANHOLE FRAMES, VALVE BOXES, VAULTS, HANDHOLES, FIRE HYDRANTS, ETC., SHALL BE SET OR RESET TO FINISHED GRADE OF THE SURROUNDING GROUND OR PAVEMENT SURFACE WHETHER OR NOT SPECIFICALLY CALLED OUT ON THE PLANS OR IN THE SPECIFICATIONS
8. QUANTITIES SHOWN ON THE PLANS ARE ESTIMATES ONLY FOR BIDDING PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND NOTIFYING THE OWNER AND THE ENGINEER IF ANY SIGNIFICANT DIFFERENCES HAVE BEEN IDENTIFIED.

UTILITIES

1. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES OR UTILITY STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM UTILITY MAPPING PROVIDED BY THE VARIOUS UTILITY COMPANIES BASED ON AN AZ811 UTILITY MAPPING REQUEST
2. THE LOCATION OF THE UTILITIES MAY OR MAY NOT BE ACCURATELY SHOWN ON THE UTILITY MAPPING PROVIDED AND ON THE PROJECT PLANS
3. THERE MAY BE OTHER UTILITY LINES AND FACILITIES PRESENT THAT ARE IN SERVICE OR HAVE BEEN ABANDONED WITHIN THE PROJECT CORRIDOR OR AREA THAT ARE NOT SHOWN ON THE MAPPING AND ON THE PLANS
4. THE CONTRACTOR IS RESONSIBLE FOR CONTACTING AZ811 (BLUE STAKE) PRIOR TO COMMENCING ANY DIGGING ACTIVITIES TO HAVE THE LOCATIONS OF THE UTILITIES MARKED IN THE FIELD AT THE PROJECT SITE
5. THE CONTRACTOR IS ALSO RESPONSIBLE FOR VISUALLY INSPECTING THE MARKED UTILITIES AT THE PROJECT SITE TO ASCERTAIN IF ANY POTENTIAL CONFLICTS EXIST BETWEEN THE PROPOSED IMPROVEMENTS UNDER THIS PROJECT AND THE EXISTING UTILITY FACILITIES
6. THE CONTRACTOR SHALL 'POTHOLE' TO DETERMINE THE EXACT LOCATION AND DEPTH OF EXISTING UTILITY FACILITIES TO IDENTIFY ANY POTENTIAL CONFLICTS BETWEEN UTILITY FACILITIES AND THE PROPOSED IMPROVEMENTS AND, IF NEEDED, REVIEW THE INFORMATION WITH THE OWNER AND THE ENGINEER TO RESOLVE ANY POTENTIAL CONFLICT PRIOR TO CONSTRUCTION
7. THE CONTRACTOR SHALL OBSERVE ALL POSSIBLE PRECAUTIONS WHEN WORKING IN CLOSE PROXIMITY TO EXISTING UTILITY LINES AND/OR STRUCTURES TO PROTECT THE SAME AND AVOID ANY DAMAGE TO THE UTILITY FACILITIES
8. SHOULD ANY UTILITY FACILITY BE DAMAGED BY THE CONTRACTOR'S ACTIVITIES, THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE UTILITY OWNER FOR THE REPAIR OF THE FACILITY AT NO ADDITIONAL COST TO THE PROJECT

CONSTRUCTION JOBSITE SAFETY

1. THE CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY
2. THIS SAFETY REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS
3. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER
4. NEITHER THE OWNER NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS
5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF ALL SAFETY DEVICES INCLUDING SHORING
6. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS
7. THE CONTRACTOR SHALL FOLLOW THE GUIDELINES AND REGULATIONS AS SET FORTH BY OSHA CONCERNING THE PROJECT WORK AND JOBSITE ACTIVITIES

RICK ENGINEERING WATER NOTES

STANDARDS

1. ALL WATER LINE CONSTRUCTION SHALL CONFORM TO THE LATEST REVISION OF THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION.
2. ALL WORK SHALL BE PERFORMED BY A CONTRACTOR LICENSED BY THE STATE OF ARIZONA FOR POTABLE WATER SYSTEMS AS SHOWN IN THE ARIZONA REGISTRAR OF CONTRACTORS.
3. A COPY OF THE PLANS, BID/CONTRACT DOCUMENTS, SPECIFICATIONS, AND ALL APPLICABLE DETAILS SHALL BE ON THE PROJECT SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED.
4. PRECONSTRUCTION PROCEDURE:
 - A. ALL PLANS MUST BE APPROVED AND SIGNED BY THE AGENCY/OWNER.
 - B. WORK SHALL NOT COMMENCE UNTIL A WRITTEN 'NOTICE TO PROCEED HAS BEEN ISSUED BY THE AGENCY/OWNER.
 - C. THE CONTRACTOR SHALL NOTIFY THE AGENCY/OWNER A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF CONSTRUCTION TO REQUEST A PRECONSTRUCTION MEETING AND ONLY AFTER THE AGENCY/OWNER HAS RECEIVED APPROVED PLANS AND THE "CERTIFICATE OF APPROVAL TO CONSTRUCT" FROM THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY, IF REQUIRED, AND THE SIGNED CONSTRUCTION AGREEMENT.
 - D. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND FOR ALL FEES AND TAXES REQUIRED TO COMPLETE THE WORK.
5. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE ARIZONA REVISED STATUTES PERTAINING TO "ARIZONA 811" (BLUE STAKE) UTILITY LOCATIONS PRIOR TO STARTING CONSTRUCTION.
6. EXISTING UTILITY LOCATIONS ARE TAKEN FROM PUBLIC RECORD AND ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THE PROTECTION OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND FACILITIES IN THE PROJECT AREA, WHETHER SHOWN ON THE APPROVED PLANS OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY REPAIRS OF DAMAGED UTILITY LINES AND FACILITIES AT THE CONTRACTOR'S SOLE EXPENSE.

POTABLE WATER SYSTEM REQUIREMENTS

7. ONLY IMPROVEMENTS SHOWN ON THE APPROVED WATER PLANS MAY BE INSTALLED AS PART OF THE PUBLIC WATER SYSTEM.
8. APPROVED PLANS REQUIRING REVISION SHALL BE RE-APPROVED BY THE AGENCY/OWNER AND ENGINEER OF RECORD PRIOR TO START OF REVISED WORK. CHANGES REQUIRING A REVISION:
 - A. ADDING OR DELETING NEW WATER MAINS
 - B. REROUTING OF NEW WATER MAIN GREATER THAN 12" FROM THE ORIGINAL LOCATION
 - C. ADDING, DELETING, RELOCATING, OR CHANGING THE SIZE OF A NEW WATER SERVICE
 - D. ADDING, DELETING, OR CHANGING THE SIZE OF A NEW FIRE SERVICE OR RELOCATING A NEW FIRE HYDRANT
 - E. CHANGE IN AN EASEMENT LOCATION
9. PASSING MICROBIOLOGICAL TEST RESULTS ARE REQUIRED PRIOR TO FINAL ACCEPTANCE. THE TEST IS THE RESPONSIBILITY OF THE CONTRACTOR. HOWEVER, THE CHAIN OF CUSTODY MUST BE THROUGH THE AUTHORIZED AGENCY/OWNER WATER DEPARTMENT REPRESENTATIVE. COMPLY WITH MAG SPECIFICATION SECTION 611 AND AWWA STANDARDS C601 & C651.
10. DISINFECTION SAMPLING RESULTS FOR THE WATER LINE SHALL BE PROVIDED BY THE CONTRACTOR ON ADEQ'S APPROVAL OF CONSTRUCTION (AOC) FORM. THE FORM CAN BE FOUND AT: WWW.AZDEQ.GOV WEBSITE.
11. TOTAL COLIFORM DISINFECTION RESULTS MUST BE PROVIDED FROM AN AZ STATE ACCREDITED LABORATORY ON ACCREDITED LABORATORY LETTERHEAD AND SHALL BE INCLUDED WITH THE ENGINEER'S CERTIFICATE OF COMPLETION IN ORDER FOR THE APPROVAL OF CONSTRUCTION (AOC) PERMIT TO BE ISSUED.
12. PRESSURE AND LEAKAGE TESTING RESULTS SHALL BE PROVIDED BY THE CONTRACTOR FOR INCLUSION IN THE APPROVAL OF CONSTRUCTION (AOC) APPLICATION IN ORDER FOR THE AOC PERMIT TO BE ISSUED BY ADEQ. DATA REQUIRED FOR THE ENGINEER'S CERTIFICATE OF COMPLETION AND THE AOC CAN BE FOUND AT THE WWW.AZDEQ.GOV WEBSITE.
13. ANY MATERIAL OR PRODUCT THAT COMES INTO CONTACT WITH THE PUBLIC WATER SUPPLY SHALL CONFORM TO ANSI/NSF STANDARD 61.
14. WATER AND SEWER SEPARATION DISTANCE SHALL MEET THE MINIMUM SEPARATION DISTANCES PER AAC R18-5-502.C, MAG STANDARD SPECIFICATIONS SECTION 610, AND MAG STANDARD DETAILS 404-1, 404-2, AND 404-3.

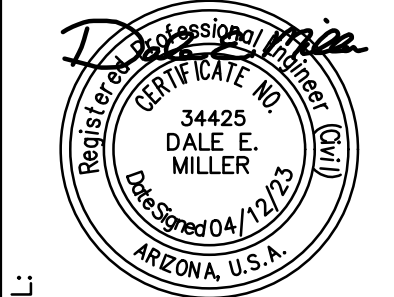
CONSTRUCTION REQUIREMENTS

15. WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 48" OF COVER FROM FINAL GRADE EXCEPT AS OTHERWISE NOTED ON THE APPROVED PLANS.
16. BEDDING AND BACKFILL MATERIAL SIEVE ANALYSIS RESULTS AND TRENCH BACKFILL COMPACTION TEST RESULTS ARE REQUIRED PRIOR TO FINAL ACCEPTANCE.
17. LIMITS OF PAVEMENT CUTS SHALL BE AS SHOWN ON THE PLANS OR AS DETERMINED BY AGENCY/OWNER'S REPRESENTATIVE.
18. THE BACKFILL MATERIAL, COMPACTION, AND PAVEMENT PATCHING SHALL BE IN ACCORDANCE WITH MAG SECTION 601 AND MAG STD DETAILS 200-1 AND 200-2, OR PER THE WRITTEN DIRECTION OF THE AGENCY/OWNER 'S REPRESENTATIVE.
19. ALL METER BOXES MUST BE INSTALLED ACCORDING TO THE MAG STANDARD SPECIFICATIONS AND DETAILS. METER BOXES AND/OR LIDS BROKEN OR REMOVED BY THE CONTRACTOR WILL BE REPLACED OR RESET IN ACCORDANCE WITH THE APPLICABLE STANDARDS AT THE CONTRACTOR'S SOLE EXPENSE.
20. ANGLE METER STOPS SHALL NOT BE INSTALLED AT THE SAME LOT CORNER AS THE ELECTRIC SERVICE OR TRANSFORMER. WHERE THIS CANNOT BE ACCOMPLISHED, THE WATER SERVICE AND THE ELECTRICAL SERVICE OR TRANSFORMER MUST HAVE A MINIMUM HORIZONTAL SEPARATION OF 5 FEET.

21. THE CONTRACTOR SHALL HAVE ALL WATER VALVES IDENTIFIED AND LOCATED PRIOR TO PAVING AND SHALL HAVE ALL VALVE BOXES SET TO FINAL GRADE AFTER PAVING IN ACCORDANCE WITH MAG SECTION 345.
22. WHERE EXISTING WATER SERVICES ARE TO BE RELOCATED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING THOSE SERVICES TO THE NEW LOCATIONS AS SHOWN ON THE APPROVED PLANS. RELOCATION WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, NEW SERVICE SADDLES AND TAPS, CORPORATION STOPS, SERVICE LINE PIPE, ANGLE METER STOPS, BALL VALVES, TRACER WIRE, AND DETECTOR TAPE. THE WORK SHALL ALSO INCLUDE SETTING AND CONNECTING METERS AND METER BOXES, AND ALL WORK NECESSARY TO RECONNECT THE WATER SERVICE TO THE CUSTOMER.
23. CONTRACTOR COORDINATION WITH RESIDENTS AND BUSINESS MANAGERS REGARDING ADVANCE NOTIFICATION OF SCHEDULED WATER OUTAGES TO CHANGE OVER SERVICE CONNECTION TO THE NEW WATER MAIN AND SERVICE LINE SHALL INCLUDE THE DAY, TIME, AND EXPECTED DURATION. ADVANCE NOTIFICATION IS REQUIRED TO BE IN ENGLISH AND SPANISH.
24. SALVAGED MATERIALS, FITTINGS AND APPURTENANCES ARE THE PROPERTY OF THE AGENCY/OWNER AND SHALL BE DELIVERED TO A STORAGE SITE AS DIRECTED. ANY SALVAGED MATERIALS NOT WANTED BY THE AGENCY/OWNER SHALL BE PROPERLY DISPOSED OF AT A LANDFILL OR OTHER LEGAL DISPOSAL SITE. SALVAGE AND HANDLING ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE COST IS CONSIDERED TO BE INCIDENTAL TO THE PROJECT CONSTRUCTION.
25. WATER LINE ABANDONMENT IN PLACE WILL BE EXAMINED ON A CASE-BY-CASE BASIS. VALVE RISERS AND RISER PIPE WILL ALWAYS BE REMOVED FROM PAVED AREAS. EXCAVATED AREAS SHALL BE BACKFILLED AND COMPACTED WITH AGGREGATE BASE COURSE COMPACTED TO THE MINIMUM DENSITY SPECIFIED IN MAG SECTION 601 (100% ASTM D698).
26. THE PAVEMENT REPAIR SHALL BE AS SHOWN ON THE APPROVED PLANS. ANY OPEN PIPES WILL BE PROPERLY PLUGGED OR CAPPED TO SEAL OFF THE ABANDONED PIPE.
27. THE CONTRACTOR SHALL MAINTAIN WATER SERVICE TO THE GREATEST EXTENT POSSIBLE AT ALL TIMES AND SHALL MINIMIZE WATER SERVICE INTERRUPTION TO EXISTING WATER SERVICES DURING ALL CONSTRUCTION ACTIVITIES WITHIN THE PROJECT AREA. ALL EXISTING METERS AND LINES FOUND IN CONFLICT WITH THE NEW WATER LINE ALIGNMENTS WHETHER OR NOT SHOWN ON PLANS SHALL BE SUPPORTED ACROSS THE TRENCH BY THE CONTRACTOR. EXISTING WATER METERS SHALL REMAIN IN PLACE AND ARE NOT TO BE DISTURBED BY THE CONTRACTOR DURING WATER MAIN TRENCHING AND INSTALLATION OPERATIONS AND SHALL REMAIN ACCESSIBLE FOR READING OR MAINTENANCE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE HELD LIABLE FOR ANY DAMAGES TO EXISTING WATER METERS AND/OR SERVICE LINES THAT OCCUR AS A RESULT OF HIS TRENCHING AND WATER MAIN INSTALLATION OPERATIONS.
28. ONLY APPROVED MATERIALS PER THE APPROVED MATERIALS LIST AND/OR PROJECT SPECIFICATIONS WILL BE ACCEPTED.
29. FIRE HYDRANTS SHALL BE CLOW MEDALLION (5-1/4" OPENING), WATEROUS PACER (5-1/4" OPENING), OR A PRE-APPROVED EQUIVALENT HYDRANT.
30. ALL FITTINGS, VALVES, FLEXIBLE COUPLINGS, AND REPAIR CLAMPS SHALL BE ENCASED IN A 10 MIL POLYETHYLENE BARRIER WRAP IN ACCORDANCE WITH AWWA C-105, METHOD C.
31. PIPE, FITTINGS, VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES SHALL CONFORM TO THE CURRENT STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION.
32. WATER MAIN AND SERVICES LINES ARE DESIGNED FOR A MINIMUM NORMAL INTERNAL WORKING PRESSURE OF 150 PSI PLUS APPROPRIATE ALLOWANCES FOR WATER HAMMER, OR AS OTHERWISE DENOTED ON THE PROJECT PLANS AND/OR IN THE TECHNICAL SPECIFICATIONS.
33. WATERLINES WITH UNRESTRAINED JOINTS SHALL BE BLOCKED AS REQUIRED BY MAG STANDARD SPECIFICATION SECTION 610.14 AND MAG STANDARD DRAWINGS 301, 380, AND 381.

INSPECTION REQUIREMENTS

34. INSPECTORS EMPLOYED BY THE AGENCY/OWNER ARE AUTHORIZED TO INSPECT ALL WORK DONE AND MATERIALS FURNISHED. SUCH INSPECTION MAY EXTEND TO ALL OR ANY PARTS OF THE WORK AND TO THE PREPARATION, FABRICATION, OR MANUFACTURING OF THE MATERIALS USED. THE INSPECTOR SHALL NOT BE AUTHORIZED TO ALTER OR WAIVE THE PROVISIONS OF THE CONTRACT. THE INSPECTOR SHALL BE AUTHORIZED TO ISSUE INSTRUCTIONS IN KEEPING WITH THE DESIGN INTENT OF THE PLANS AND SPECIFICATIONS. THE INSPECTOR SHALL HAVE THE AUTHORITY TO REJECT DEFECTIVE MATERIALS OR WORK. THE INSPECTOR SHALL BE THE INTERPRETER OF THE PLANS AND SPECIFICATIONS.
35. ITEMS OF WORK REQUIRING INSPECTION PRIOR TO BEING BACKFILLED OR OTHERWISE CONCEALED BY THE CONTRACTOR, INCLUDE BUT ARE NOT LIMITED, TO THE TRENCH DEPTH AND LOCATION, PIPE MATERIALS, INSTALLATION OF TEMPORARY PLUGS, TAPS AND TIE-INS, SERVICES, DRAIN ASSEMBLIES, BEDDING, AND DETECTABLE WIRING AND MARKING TAPE INSTALLATION. ANY WORK DONE OR MATERIALS USED WITHOUT INSPECTION BY THE OWNER/AGENCY WATER DEPARTMENT MAY BE ORDERED UNCOVERED AND REMOVED OR REPLACED AT THE CONTRACTOR'S EXPENSE EVEN IF THE UNCOVERED WORK IS DETERMINED TO BE ACCEPTABLE.



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6642 DRAWN/DESIGNED BY:
4/12/2023 CHECKED BY:

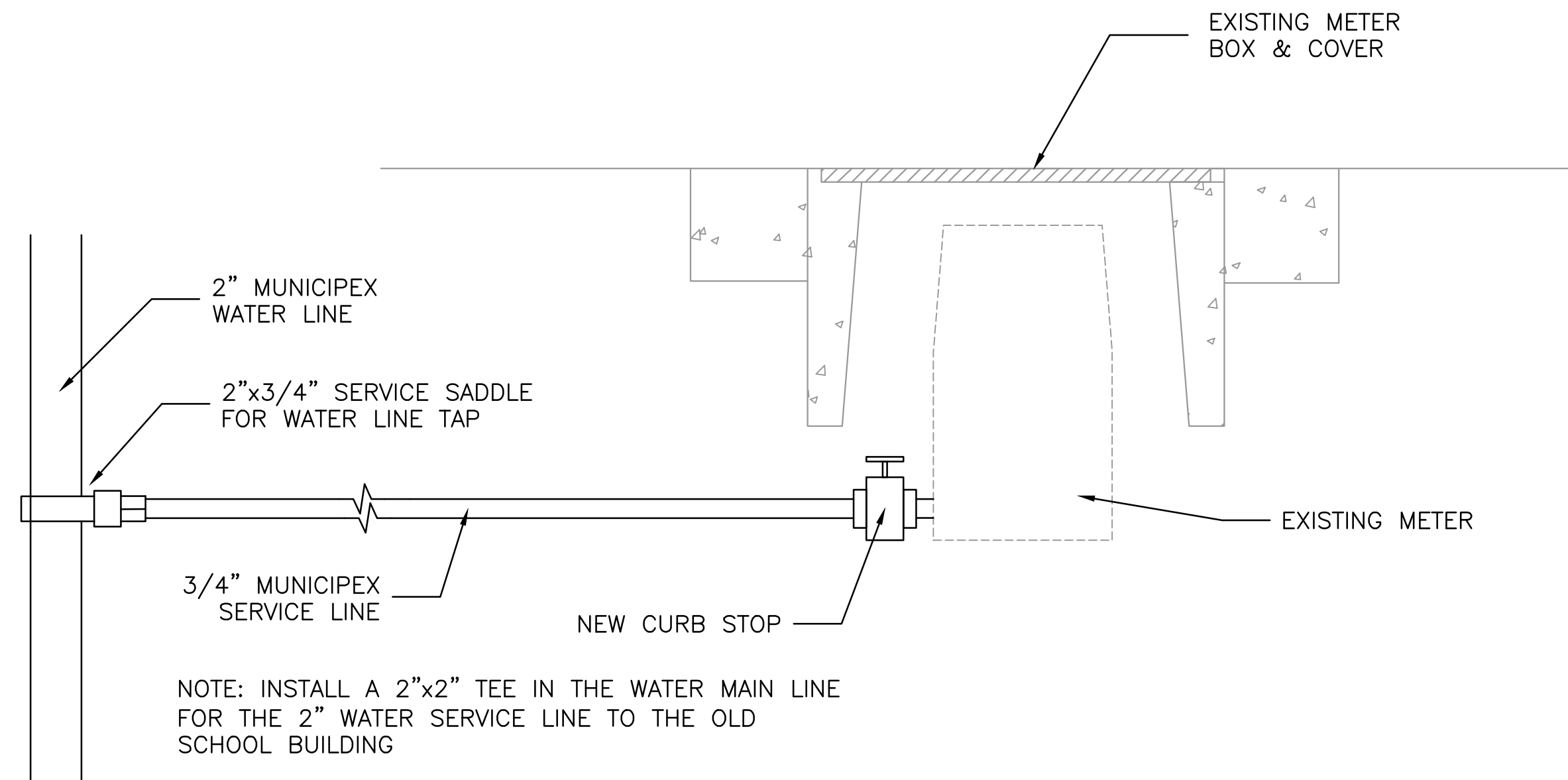
RICK ENGINEERING COMPANY
4TH STREET
WATER LINE REPLACEMENT
CITY OF GLOBE, AZ

GENERAL NOTES

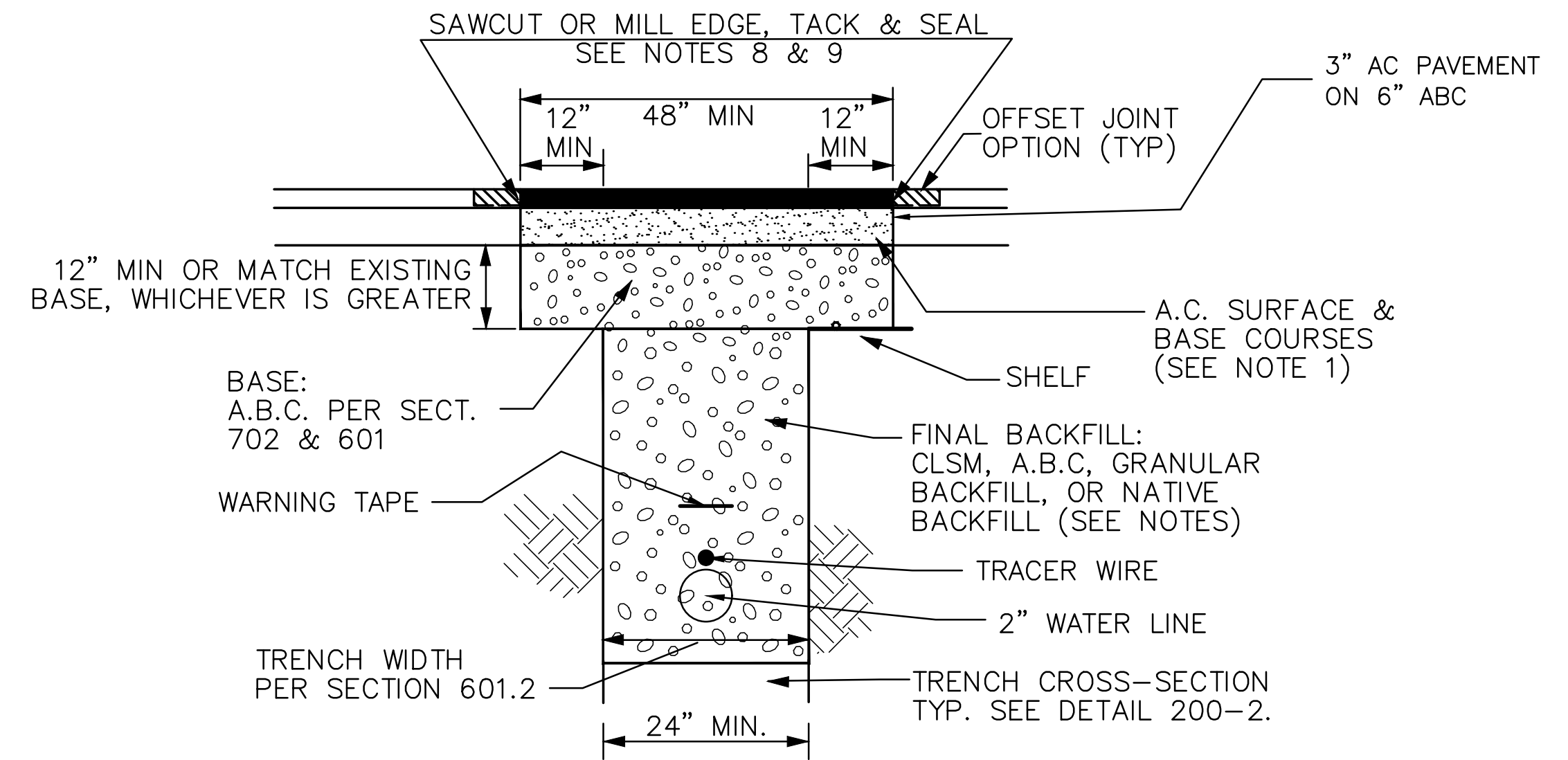


DRAWING NO.
GN-01
SHEET NO. 2 OF 5

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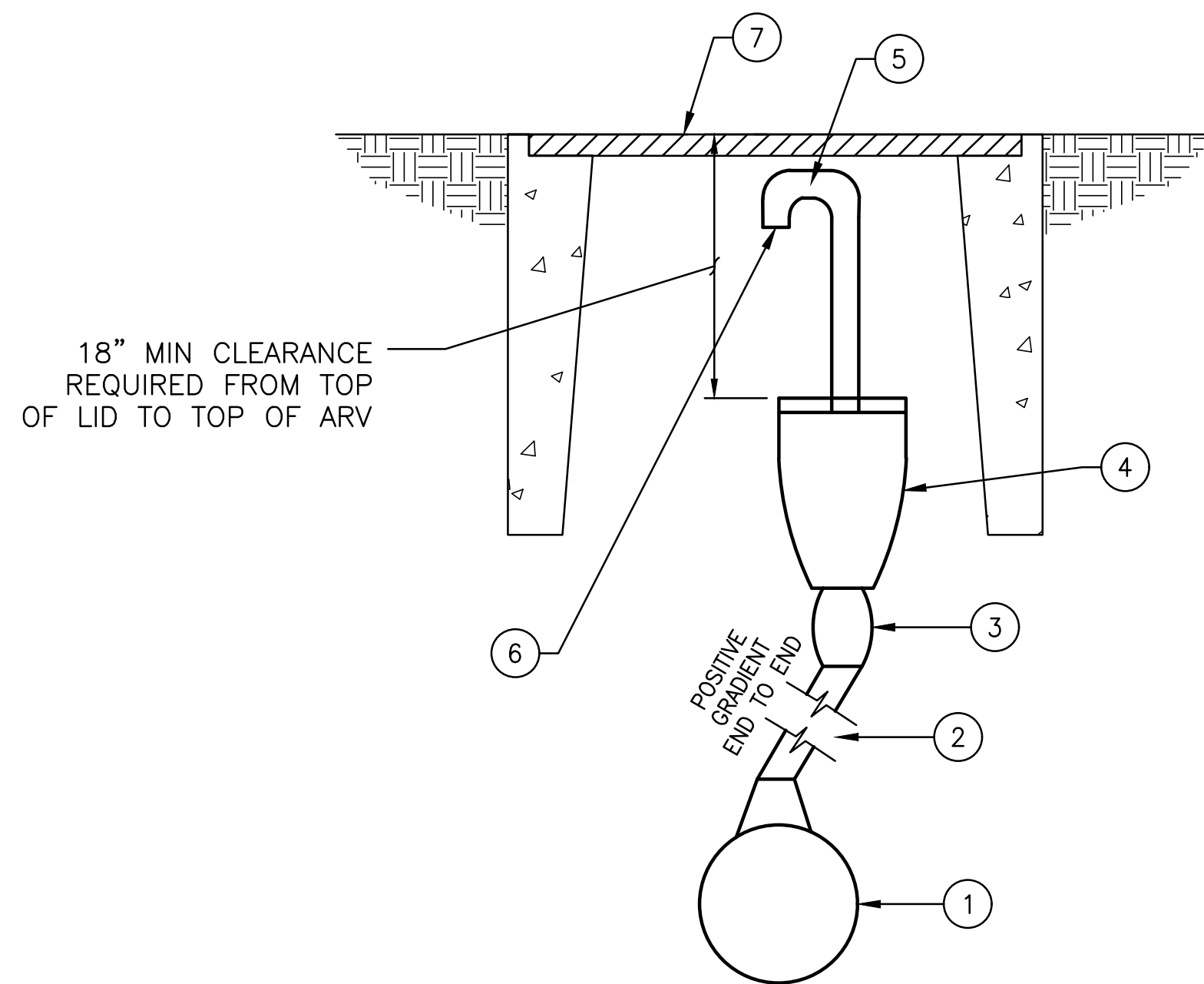
SERVICE CONNECTION DETAIL



**T-TOP TRENCH REPAIR DETAIL
(MODIFIED MAG S.D. 200-1)**

NOTES:

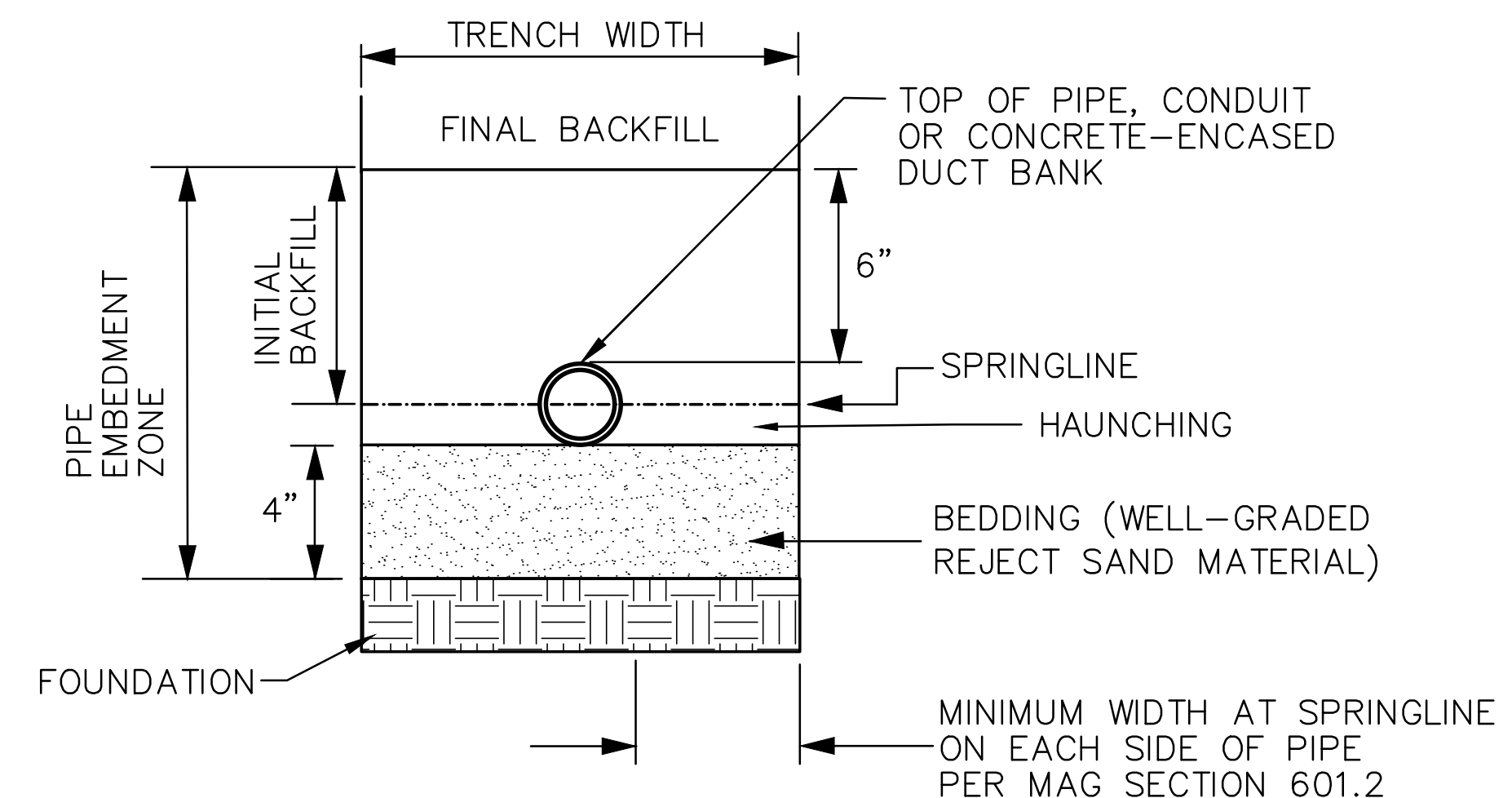
1. PAVEMENT MATCHING, BASE COURSES AND SURFACE REPLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 336 UNLESS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS.
2. TRENCH EXCAVATION, BACKFILLING AND COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 601. NATIVE BACKFILL SHALL ONLY BE USED WITH AGENCY APPROVAL.
3. CLSM SHALL BE 1/2-SACK OR 1-SACK PER SECTIONS 604 AND 728.
4. MATERIAL FOR FINAL BACKFILL AND BASE (IF APPLICABLE) SHALL BE AS NOTED HEREIN UNLESS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS.
5. FINAL BACKFILL SHALL BE CLSM FOR TRENCH DEPTHS GREATER THAN 4 FEET UNLESS A SAFE (OHS COMPLIANT) WORKING SPACE AT LEAST 30" WIDE IS PROVIDED TO CONDUCT COMPACTION TESTING.
6. PROVIDE MINIMUM 12" WIDE SHELF AS SHOWN IN "T-TOP" TRENCH REPAIR AT ENDS OF TYPE "A" TRENCH REPAIR EXCEPT WHERE EDGE ABUTS EXISTING CONCRETE.
7. USE "T-TOP" PAVEMENT REPLACEMENT WHERE A TRENCH IS NOT PARALLEL TO A STREET OR GOES THROUGH AN INTERSECTION.
8. THE JOINT LOCATION OR JOINT CONFIGURATION MAY VARY FROM THAT SHOWN TO ELIMINATE REMNANTS, TO ELIMINATE FULL DEPTH SAWCUT JOINTS FROM BEING LOCATED WITHIN A WHEEL PATH AS REQUIRED BY SECTION 336, OR WHEN AN OFFSET JOINT IS CONSTRUCTED. SEE DETAIL 200-2 FOR REMNANT PAVEMENT REMOVAL REQUIREMENTS.
9. SAWCUT OR MILL EDGE AND APPLY TACK COAT. FOR PERMANENT PAVEMENT, APPLY 2-1/2" WIDE SECTION 337.2.1 COMPLIANT JOINT SEALANT AS REQUIRED BY AGENCY - SEE DETAIL ON 200-2.
10. EXPOSED COPPER OR POLYETHYLENE WATER PIPE UP TO 2" IN DIAMETER IN TRENCHES TO BE BACKFILLED WITH CLSM SHALL BE WRAPPED WITH MINIMUM 3/4" THICK PREFORMED PIPE-COVERING FOAM INSULATION BEFORE PLACING CLSM.
11. FINAL BACKFILL IN ADOT RIGHT-OF-WAY SHALL COMPLY WITH ADOT REQUIREMENTS



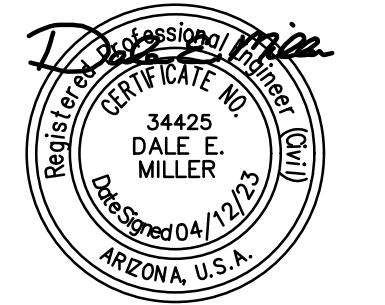
AIR RELEASE VALVE DETAIL

NOTES:

1. DOUBLE STRAP TAPPING SADDLE
2. TYPE K COPPER PIPE, 1" DIA.
3. CORPORATION STOP
4. A.R.I. S=050 AIR-RELEASE VALVE, OR APPROVED EQUAL. AIR AND VACUUM COMBO UNITS NOT ALLOWED.
5. 1" VENT PIPE
 - 5.1. MALE PIPE ADAPTER
 - 5.2. 2" BRASS NIPPLES
 - 5.3. BRASS UNION
 - 5.4. BRASS STREET 90° ELL
 - 5.5. RISER (BRASS OR COPPER) PIPE
6. (2) 90° ELL'S WITH FINE MESH SCREEN OVER OPENING.
7. PROVIDE METER BOX WITH LID PER MAG S.D. 319 #1730. PLACE IN APPROVED LOCATION



**TRENCH CROSS-SECTION DETAIL
(MODIFIED MAG S.D. 200-2)**



SEAL:

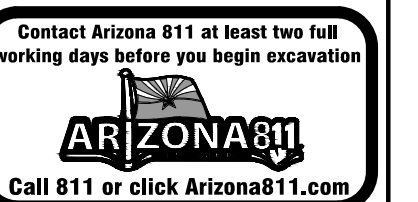
2401 W. PEORIA AVE STE. 130
PHOENIX, AZ 85029
602.957.3350

RICK
ENGINEERING COMPANY

San Diego - Riverside - San Luis Obispo - Sacramento - Orange - Tucson - Phoenix - Las Vegas - Denver

PROJECT NO: 6642
DRAWN/DESIGNED BY: K. ROECKNER
CHECKED BY: D. MILLER
DATE: 4/12/2023

4TH STREET
WATER LINE REPLACEMENT
CITY OF GLOBE, AZ

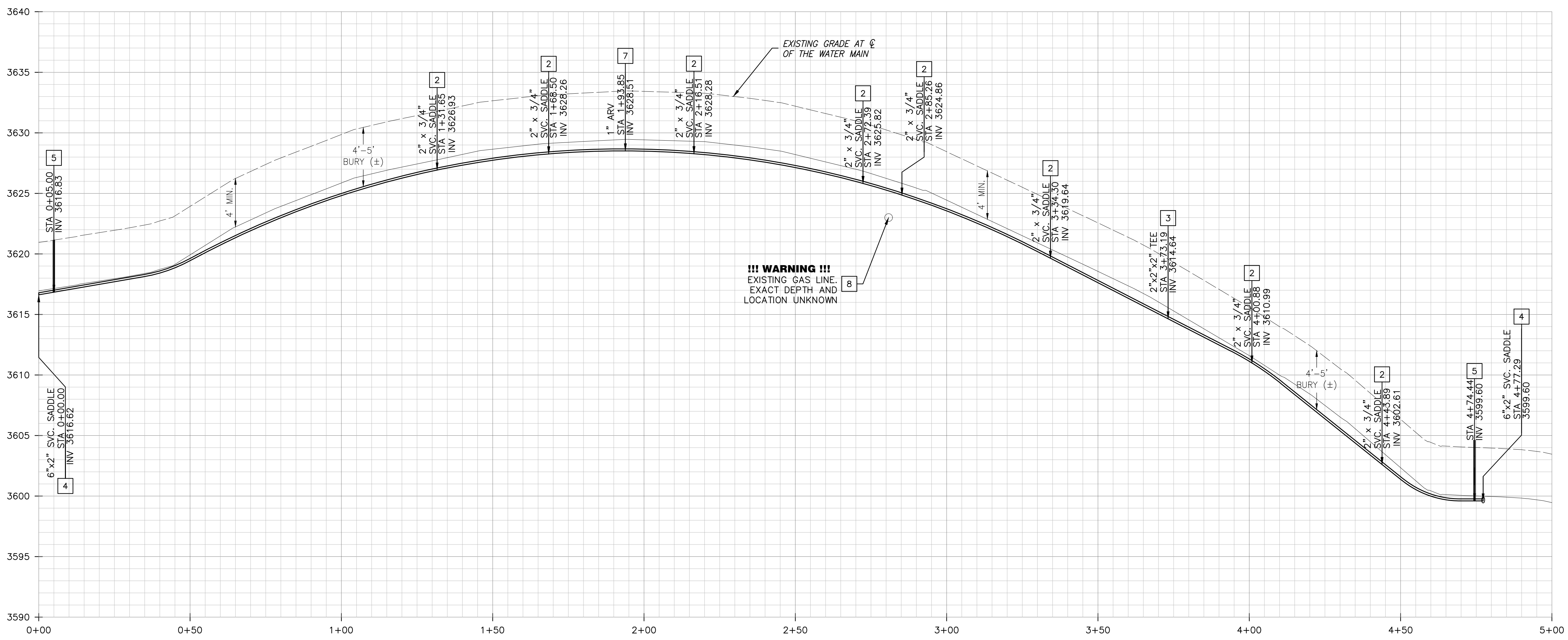
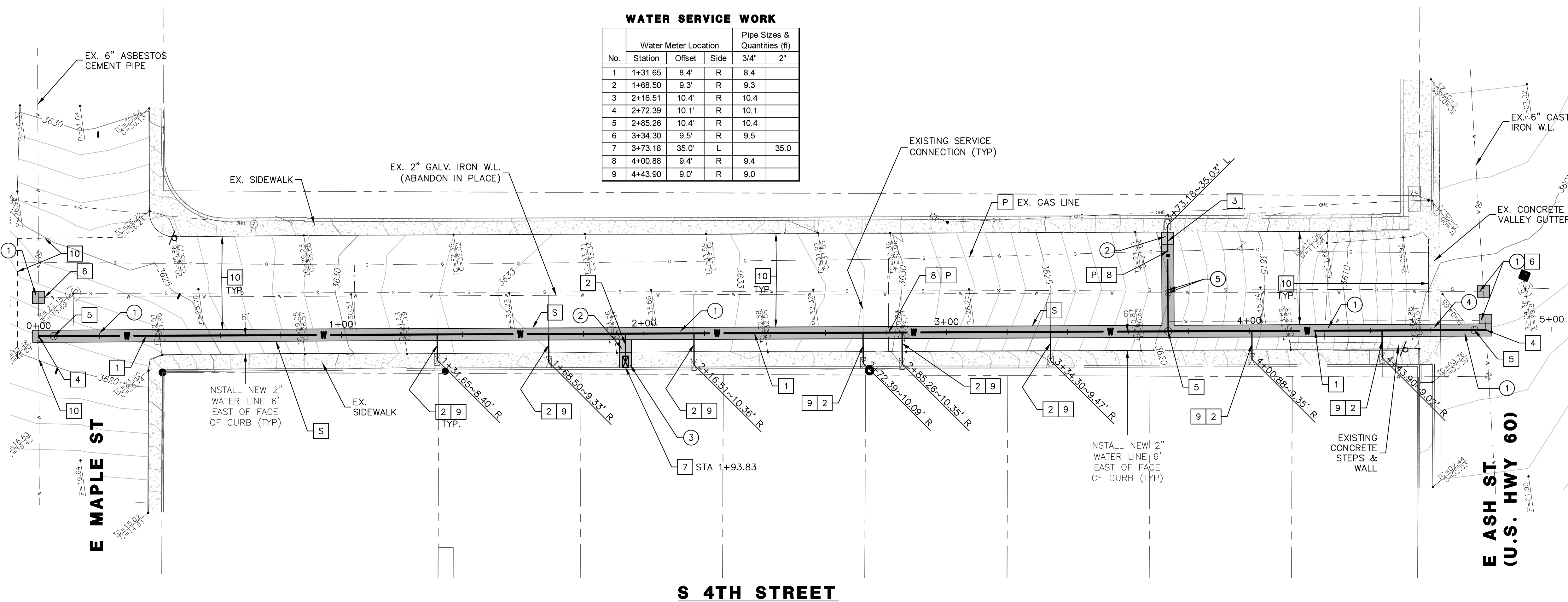


DRAWING NO.
GN-02
SHEET NO. 3 OF 5

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WATER SERVICE WORK

No.	Water Meter Location			Pipe Sizes & Quantities (ft)	
	Station	Offset	Side	3/4"	2"
1	1+31.65	8.4'	R	8.4	
2	1+68.50	9.3'	R	9.3	
3	2+16.51	10.4'	R	10.4	
4	2+72.39	10.1'	R	10.1	
5	2+85.26	10.4'	R	10.4	
6	3+34.30	9.5'	R	9.5	
7	3+73.18	35.0'	L		35.0
8	4+00.88	9.4'	R	9.4	
9	4+43.90	9.0'	R	9.0	



REMOVAL/RELOCATE NOTES

- | NO. | DESCRIPTION |
|-----|----------------------------------------------------------------------------------------------------------|
| 1 | REMOVE & REPLACE ASPHALT PAVEMENT, 3" AC ON 6" ABC, 4" STRIP OVER T-TOP TRENCH PER DETAIL ON SHEET GN-02 |
| 2 | REMOVE & REPLACE CONCRETE CURB & GUTTER APRON WITH 4" WIDE GUTTER PAN |
| 3 | REMOVE & REPLACE CONCRETE SIDEWALK |
| 4 | REMOVE & REPLACE CONCRETE VALLEY GUTTER (FULL SECTIONS) |
| 5 | ABANDON GATE VALVE BY REMOVING VALVE BOX & PATCHING PAVEMENT |

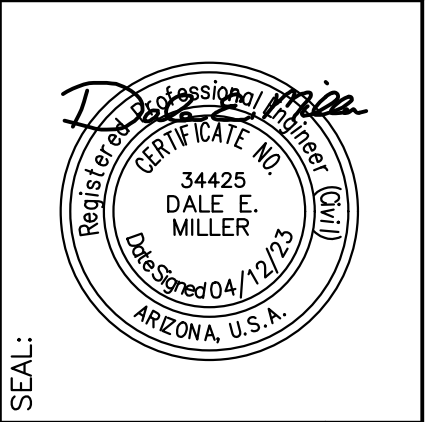
CONSTRUCTION NOTES

- | NO. | DESCRIPTION |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | INSTALL 2" DIA. MUNICIPEX WATER LINE AS MANUFACTURED BY REHAU AND MEETING THE REQUIREMENTS OF AWWA C904 FOR PEXa PIPE. WATER LINE SHALL BE PROVIDED WITH TRACER WIRE AND WARNING TAPE. |
| 2 | INSTALL 3/4" DIA. MUNICIPEX WATER SERVICE LINE AS MANUFACTURED BY REHAU AND MEETING THE REQUIREMENTS OF AWWA C904 FOR PEXa PIPE. PROVIDE WITH TRACER WIRE AND WARNING TAPE. |
| 3 | INSTALL 2" MUNICIPEX SERVICE LINE FOR SCHOOL BLDG. AND CONNECT TO EXISTING METER. INCLUDE 2"x2" TEE |
| 4 | CONNECT TO EXISTING 6" WATER LINE |
| 5 | INSTALL 2" GATE VALVE. SHALL INCLUDE 2" STD. SQUARE NUT WITH BOX & COVER |
| 6 | CAP & ABANDON EXISTING 2" DIA. WATER LINE |
| 7 | INSTALL AIR RELEASE VALVE, 1" DIA. |
| 8 | GAS LINE CROSSING |
| 9 | INSTALL WATER SERVICE LINE BENEATH SIDEWALK, CURB & GUTTER SECTION WITH WIDE 4" WIDE PAN BY BORING - SEE SPECIFICATIONS |
| 10 | CONSTRUCT DOUBLE CHIP SEAL STREET SURFACING ON FULL WIDTH OF 4TH STREET ASPHALT PAVEMENT FROM NORTH EDGE OF MAPLE STREET TO CONCRETE VALLEY GUTTER AT ASH STREET. SEE STRIPING PLAN ON SHEET 5 |
| S | SAWCUT AND MATCH EXISTING |
| P | PROTECT IN PLACE |

GENERAL NOTES

- THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM ADOT FOR ALL CONSTRUCTION WORK AND LANE CLOSURES ON ADOT ROW FOR US HWY 60/ASH ST.
- PIPE SHALL HAVE A DEPTH OF BURY BETWEEN 4 AND 5 FT. MINOR DEVIATIONS FROM PLANS ARE PERMITTED AS LONG AS THE DEPTH OF BURY IS NOT LESS THAN 4 FT ANYWHERE ALONG THE PIPE.
- ALL STATIONING IS ALONG C OF THE PROPOSED WATER MAIN.

NO.	BY	DATE	REVISION



SEAL: **DALE E. MILLER**
 REGISTERED PROFESSIONAL ENGINEER
 LICENSE NO. 34425
 STATE OF ARIZONA, U.S.A.

2401 W. PEORIA AVE STE. 130
 PHOENIX, AZ 85029
 602.957.3350
 rickengineering.com

PROJECT NO: 6642
 DRAWN/DESIGNED BY: K. ROECKNER
 CHECKED BY: D. MILLER
 DATE: 4/12/2023

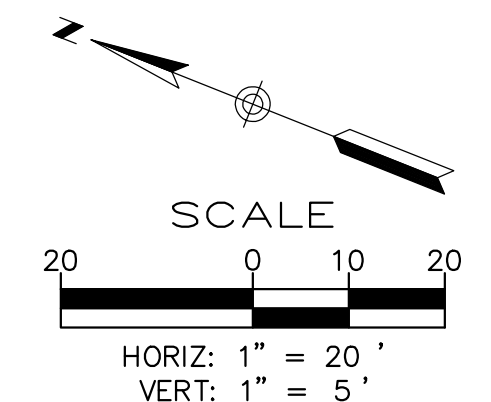
4TH STREET WATER LINE REPLACEMENT
 CITY OF GLOBE, AZ

PLAN & PROFILE

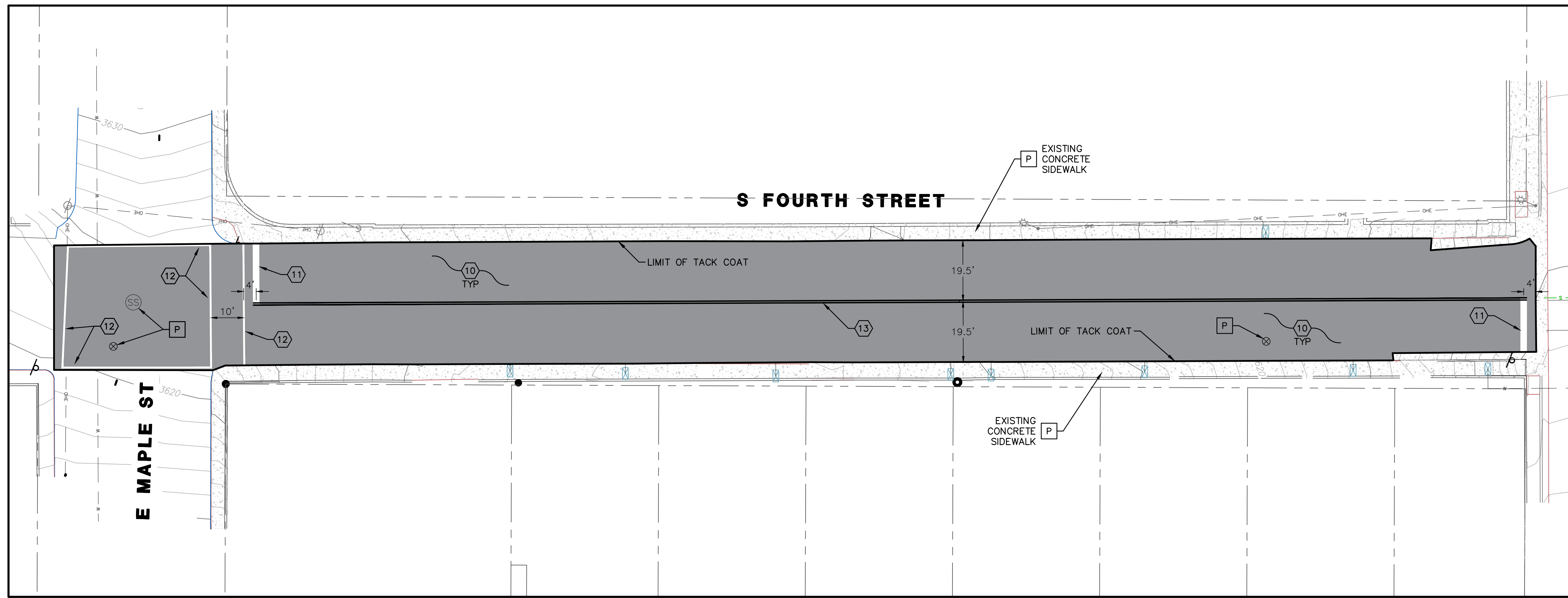
CONTACT ARIZONA 811 AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN EXCAVATION

 CALL 811 OR CLICK ARIZONA811.COM

DRAWING NO. **PLPR-01**
 SHEET NO. 4 OF 5

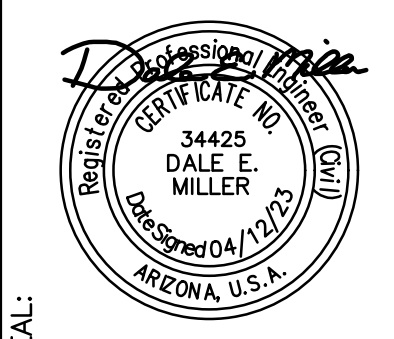


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PAVEMENT STRIPING NOTES	
NO.	DESCRIPTION
10	CONSTRUCT DOUBLE CHIP SEAL STREET SURFACING ON FULL WIDTH OF 4TH STREET ASPHALT PAVEMENT FROM NORTH EDGE OF MAPLE STREET TO CONCRETE VALLEY GUTTER AT ASH STREET.
11	APPLY 24" WIDE WHITE THERMOPLASTIC STOP BARS
12	APPLY 6" WIDE WHITE PAINT FOR CROSSWALK
13	APPLY 2x 4" WIDE YELLOW STRIPING FOR CENTERLINE - 4" BETWEEN YELLOW LINES. CONTINUOUS LINES BETWEEN STOP BARS AT MAPLE AND ASH STREETS
P	PROTECT IN PLACE

NO.	BY	DATE	REVISION



SEAL: **DALE E. MILLER**
 34425
 REGISTERED PROFESSIONAL ENGINEER
 ARIZONA, U.S.A.

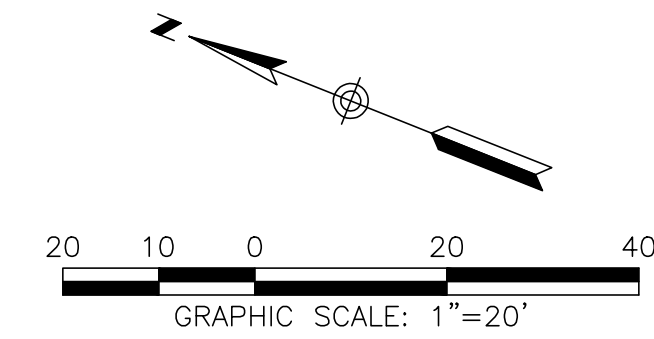
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RICK ENGINEERING COMPANY
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PROJECT NO: 6642 DRAWN/DESIGNED BY: K. ROECKNER
 DATE: 4/12/2023 CHECKED BY: D. MILLER

4TH STREET WATER LINE REPLACEMENT
 CITY OF GLOBE, AZ

PAVEMENT MARKING PLAN



Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA 811
 Call 811 or click Arizona811.com

DRAWING NO. **STP-01**
 SHEET NO. 5 OF 5