GENERAL NOTES

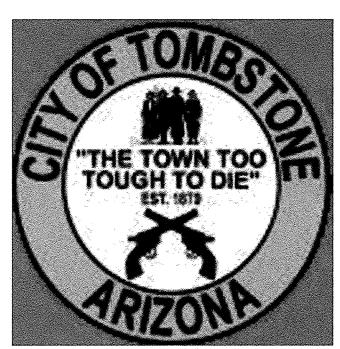
- . ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF STANDARD SPECIFICATIONS FOR CONSTRUCTION FOR TOMBSTONE PUBLIC WORKS DEPARTMENT, THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY BULLETIN NO. 10. MARICOPA ASSOCIATION OF GOVERNMENTS (MAG), AND COCHISE COUNTY HIGHWAY AND FLOODPLAIN ROAD DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
- THE CONTRACTOR SHALL SUPPLY ALL STAKES SET FOR THE LINES, LEVELS OR MEASUREMENTS OF THE WORK IN THEIR PROPER PLACES AND IT SHALL BE CERTIFIED BY A "REGISTERED LAND SURVEYOR". ANY EXPENSE INCURRED IN REPLACING ANY STAKES WHICH THE CONTRACTOR OR HIS SUBORDINATES MAY HAVE FAILED TO PRESERVE SHALL BE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE, MAINTENANCE, REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS IN THE WORK AREA WHICH HAVE BEEN REMOVED OR DAMAGED DURING THE COURSE OF CONSTRUCTION. ALL REPAIR, REPLACEMENT, OR CLEANUP SHALL BE DONE TO THE SATISFACTION OF THE OWNER.
- THE CONTRACTOR IS REQUIRED TO CONTACT "BLUE STAKE" (1-800-782-5348) 48 HOURS PRIOR TO ANY FXCAVATION TO DETERMINE ACCURATE UTILITY LOCATIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, HAUL AND APPLY ALL WATER REQUIRED FOR COMPACTION AND THE CONTROL OF DUST FROM CONSTRUCTION ACTIVITY. THE COST THEREOF IS TO BE INCLUDED IN THE PIPE INSTALLATION PRICE. UNIT PRICES FOR IMPORTED FILL SHALL BE FOR FILL COMPACTED IN PLACE.
- THE CONTRACTOR SHALL EMPLOY A GEOTECHNICAL ENGINEER TO OBSERVE, INSPECT AND TEST ALL GRADING OPERATIONS. THE SAID ENGINEER SHALL CERTIFY THAT ALL GRADING OPERATIONS WERE PERFORMED IN ACCORDANCE WITH APPLICABLE PLANS.
- TOMBSTONE PUBLIC WORKS DEPARTMENT AND THEIR ENGINEER SHALL REVIEW ALL SHOP DRAWINGS AND EQUIPMENT SUBMITTALS FOR COMPLIANCE WITH PLANS AND SPECIFICATIONS.
- 8. ALL GRADING SHALL BE IN CONFORMANCE WITH THE COCHISE COUNTY GRADING ORDINANCE, LATEST EDITION.
- 9. ALL WATER PIPE SHALL BE PVC C900 200 PSI IN ACCORDANCE WITH A.W.W.A. C900-07 AND INSTALLED PER M.A.G. STANDARD SPECIFICATION 610.
- 10. ALL NEW WATER MAINS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER UNLESS OTHERWISE NOTED.
- 11. ALL BELOW GROUND PIPING TO BE MECHANICAL JOINT RESTRAINED FITTINGS (MEGA LUG, LOK-FAST OR EQUAL) UNLESS OTHERWISE NOTED. RESTRAINED JOINT LENGTHS TO BE PER EBAA IRON RESTRAINED JOINT CALCULATOR.
- 12. ALL GATE VALVES SHALL CONFORM TO A.W.W.A. C-509.
- 13. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- ALL FOREIGN MATERIALS ENCOUNTERED AS A RESULT OF CONSTRUCTING THIS PROJECT INCLUDING BUT NOT LIMITED TO ROCK, ORGANIC DEBRIS AND EXISTING MATERIALS OR CONCRETE SHALL BE REMOVED AND LAWFULLY DISPOSED OF. COST FOR SAID ACTIVITY SHALL BE INCIDENTAL TO THE CONTRACTORS UNIT PRICE BID.
- UPON COMMENCEMENT OF WORK, TRAFFIC CONTROL DEVICES SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE WORK IS COMPLETED. ALL WARNING SIGNS, BARRICADES ETC. SHALL BE IN ACCORDANCE THE MANUAL FOR UNIFORM TRAFFIC CONTROL AND APPROPRIATE GOVERNMENT AGENCY SUPPLEMENTS.
- CONTRACTOR TO COORDINATE AND PAY ALL RE—TESTING FEES REQUIRED FOR CONFORMANCE.
- 17. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATION SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
- 18. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY GOVERNMENTAL AGENCIES.
- 19. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWING NOTES AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
- 20. A COPY OF THIS PLAN SHALL BE KEPT IN AN EASILY ACCESSIBLE LOCATION ON THE SITE AT ALL TIMES DURING CONSTRUCTION.
- 21. THE CONTRACTOR SHALL GRADE ALL AREAS DISTURBED BY THE PIPELINE INSTALLATION TO MATCH THE SURROUNDING CONTOURS.
- 22. CONTRACTOR TO PROVIDE EROSION CONTROL AND STORM WATER POLLUTION PREVENTION PLAN AND INSTALL AND MAINTAIN REQUIRED SWPP FEATURES DURING CONSTRUCTION. SAID WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACTOR'S UNIT PRICES FOR THE PROJECT.
- 23. CONTRACTOR TO CONTACT SOUTHWEST GAS WHEN WORKING WITHIN 10 FEET OF A HIGH PRESSURE GAS MAIN OR DISTRIBUTION FACILITY 6" OR GREATER, CONTACT SOUTHWEST GAS AT (520) 794-6021.
- 24. CONTRACTOR TO VISIT SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS PRIOR TO SUBMITTING A BID FOR THE
- 25. EXISTING UTILITIES SHALL BE POTHOLED PRIOR TO ANY CONSTRUCTION, SEE SPECIFICATIONS.

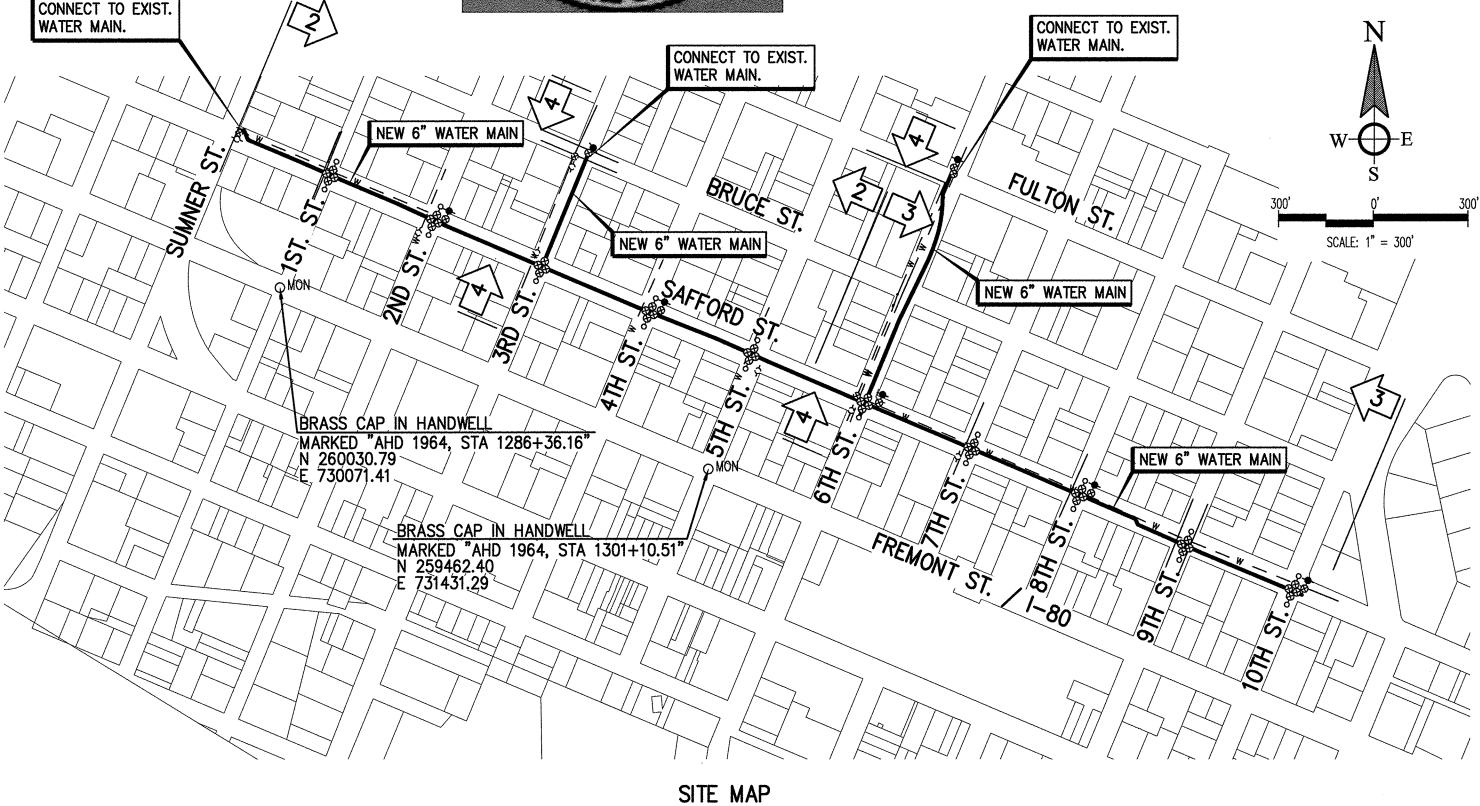
UTILITY STATEMENT

EXISTING ABOVE AND BELOW GROUND UTILITIES HAVE BEEN DELINEATED ON THESE PLANS BASED UPON FIELD SURVEY INFORMATION AS WELL AS FROM BLUE STAKE MARKINGS AND UTILITY BASE MAPS (AS MADE AVAILABLE) THEREFORE THE ENGINEER MAKES NO GUARANTEE OF THE ACCURACY OR COMPLETENESS OF THE UTILITY LOCATIONS OR OF THE EXISTENCE OR NONEXISTENCE OF ANY UTILITY OR UNDERGROUND STRUCTURES SHOWN. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEANS NECESSARY TO PROTECT ANY UTILITY. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DAMAGE TO EXISTING ABOVE OR UNDERGROUND UTILITIES. INCLUDING THOSE NOT SHOWN ON THESE PLANS.



SAFFORD STREET 3RD. STREET AND 6TH. STREET WATER MAIN IMPROVEMENT PLANS





ADEQ WATER NOTES:

- 1. ALL WATERLINES AND FITTINGS SHALL HAVE NATIONAL SANITATION FOUNDATION (NSF) SEAL AND COMPLY WITH A.A.C. R-18-4-213.C STANDARDS.
- 2. ALL MATERIALS AND PRODUCTS USED IN THE DRINKING WATER SYSTEM SHALL CONFORM TO NSF STANDARD 61.
- 3. CONSTRUCTION MATERIALS USED IN THE WATER SYSTEM SHALL BE LEAD FREE AS IN ACCORDANCE WITH A.A.C. R18-5-504 AND R18-5-101.
- 4. WATER LINES SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH A.W.W.A.
- 5. PRESSURE AND LEAKAGE TESTING RESULTS MUST BE PROVIDED WITH THE APPROVAL OF CONSTRUCTION (AOC) APPLICATION IN ORDER FOR THE AOC PERMIT TO BE ISSUED. DATA REQUIRED FOR THE ENGINEERING CERTIFICATE OF COMPLETION (ECC) AND THE AOC CAN BE FOUND AT http://www.azdeq.gov/environ/water/dw/download/data.pdf
- 6. WATER LINES SHALL BE DISINFECTED BY CHLORINATION IN ACCORDANCE WITH A.W.W.A. C601 STANDARD OR A.D.E.Q. BULLETIN NO. 8.
- 7. DISINFECTION RESULTS FROM AN ARIZONA STATE ACCREDITED LABORATORY MUST BE aPROVIDED WITH THE APPROVAL OF CONSTRUCTION (AOC) APPLICATION IN ORDER FOR THE AOC PERMIT TO BE ISSUED.
- 8. WATER/SEWER LINE SEPARATION SHALL BE IN ACCORDANCE WITH A.A.C. R-18-5-502.C.
- 9. ALL FITTINGS, VALVES, FLEXIBLE COUPLINGS, AND REPAIR CLAMPS SHALL BE ENCASED WITH A 10 MIL POLYETHYLENE IN ACCORDANCE WITH A.W.W.A. C-105 METHOD C.

OWNER/DEVELOPER

TOMBSTONE PUBLIC WORKS DEPARTMENT 611 E. ALLEN ST. TOMBSTONE, ARIZONA 85638 PHONE: 520-457-3415 CONTACT: ALEX GRADILLAS

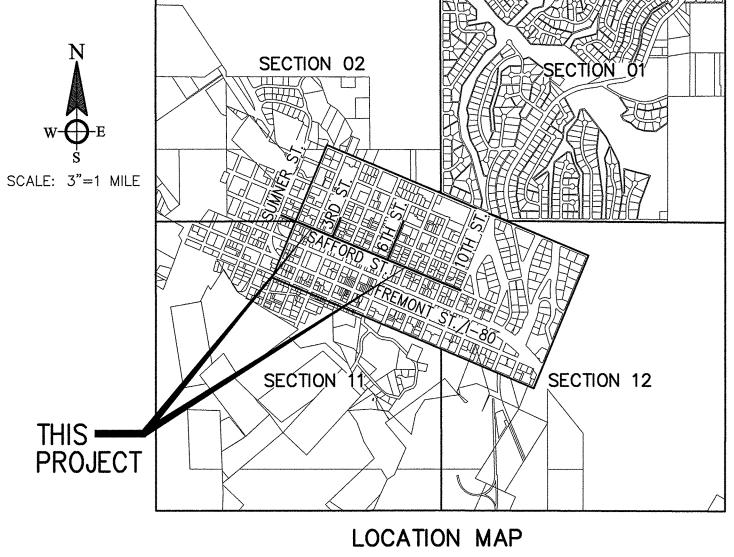
ACCEPTED:

TOMBSTONE PUBLIC WORKS DEPARTMENT

COUNTY AND FLOOD PLAIN - AIRPORT 2006"

BASIS OF COORDINATES AND ELEVATION

BASIS OF COORDINATES IS THE ARIZONA STATE PLANE GRID. SURVEY BASED UPON GPS OBSERVATIONS USING PUBLISHED DATA AT NGS POINT "AIRPORT": N 244730.89 (SPC) E 741989.44 (SPC) ARIZONA EAST ZONE ELEVATION = 4753.40 (NAVD 88)MONUMENT DESCRIBED AS 3" BRASS CAP MARKED "COCHISE



A PORTION OF SECTION 11 T-20-S R-22-E, G&SRM COCHISE COUNTY, ARIZONA

LEGEND

	EXISTING PAVEMENT		
FHS ≺≻	EXISTING FIRE RISER		
D	EXISTING WATER METER		
□GM	EXISTING GAS METER		
OMON	SURVEY PIN		
<> SGN	EXISTING SIGN		
○ UP	EXISTING UTILITY POLE		
──	NEW WATER MAIN AND VALVE		
	NEW CURB STOP WITH FLUSHING PIPE		
G	EXISTING GAS LINE		
	EXISTING TELEPHONE LINE		
	EXISTING WATER MAIN AND VALVE		
	EXISTING SEWER MAIN AND MANHOLE		
HCP	HORIZONTAL CONTROL POINT		
$\left(\begin{array}{c}1\\\overline{}\end{array}\right)$	DETAIL NUMBER		
5	SHEET NUMBER		
2	SHEET INDEX NUMBER		

SHEET INDEX

SHEET 1COVER SHEET SHEET 2-4.....WATER MAIN PLAN SHEETS

SHEET 5DETAIL SHEET

MATERIAL QUANTITIES L	.IST
6" WATER MAIN	5578 L.F.
6" GATE VALVES	49 EA.
CURB STOP WITH FLUSHING PIPE	18 EA.

QUANTITIES ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR CALCULATING THEIR OWN QUANTITIES



TOMBSTONE PUBLIC WORKS DEPARTMENT

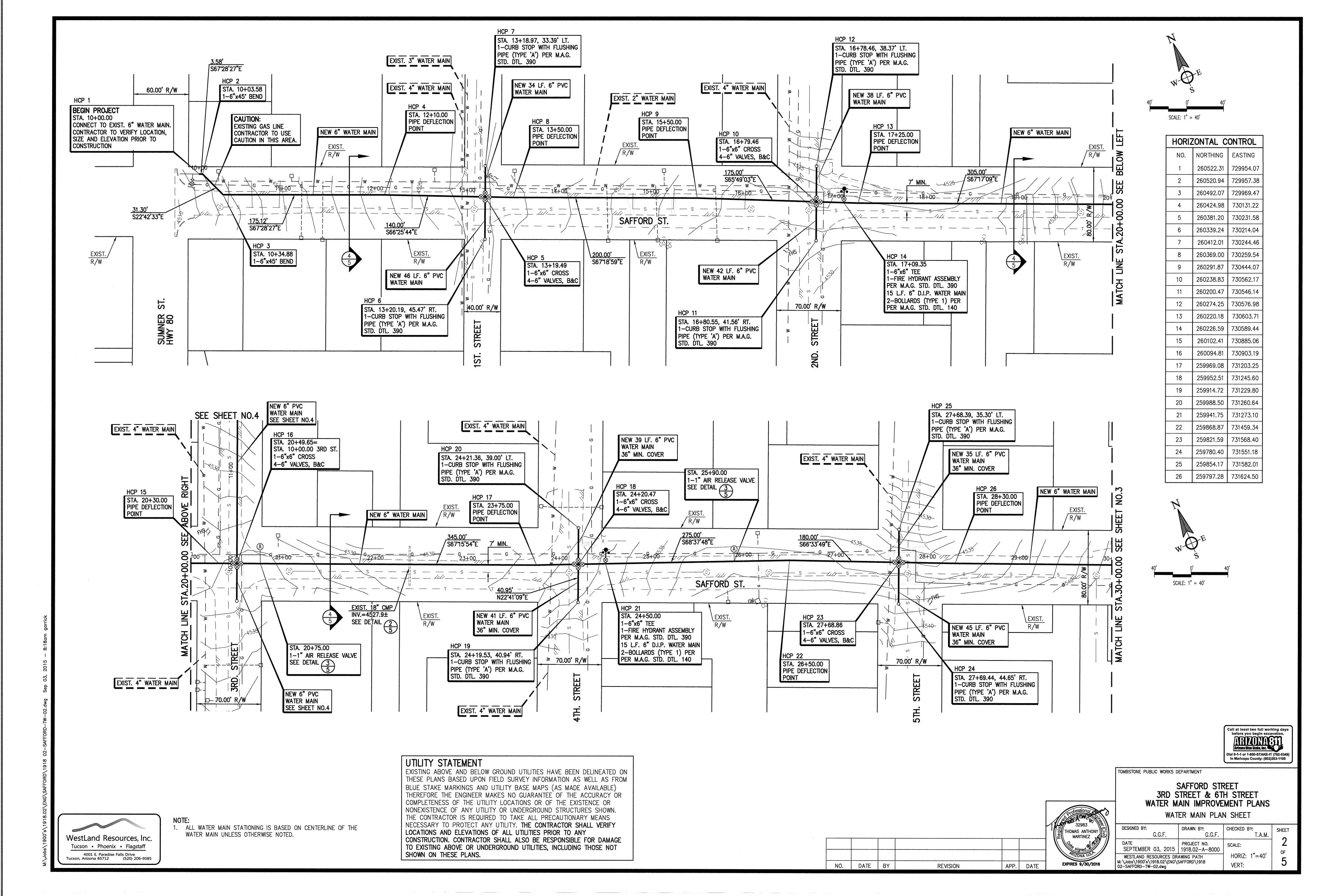
SAFFORD STREET 3RD STREET & 6TH STREET WATER MAIN IMPROVEMENT PLANS

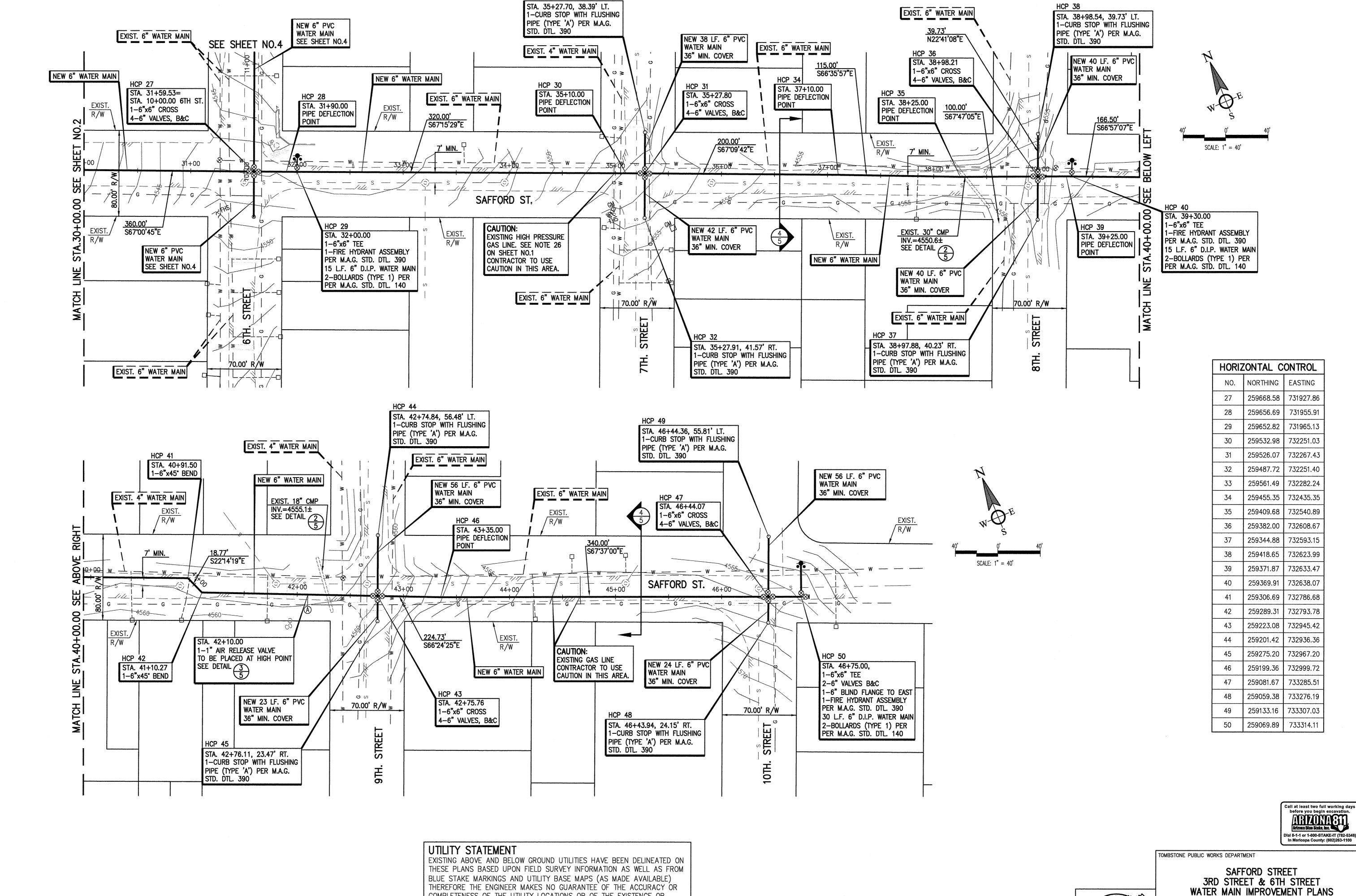
COVER SHEET

DESIGNED BY: G.G.F.	DRAWN BY: G.G.F.	CHECKED BY: T.A.M.	SHEET	
DATE SEPTEMBER 15, 2015	PROJECT NO. 1918.02-A-8000	SCALE:] OF	
WESTLAND RESOURCES DR M: \Jobs\1900's\1918.02\ENG\: 02-SAFFORD-TW-01.dwg		HORIZ: 1"=300' VERT:	5	

NO. DATE BY APP. DATE REVISION

THOMAS ANTHONY MARTINEZ





WestLand Resources, Inc. Tucson • Phoenix • Flagstaff 4001 E. Paradise Falls Drive ucson, Arizona 85712 (520) 206-9585 WATER MAIN UNLESS OTHERWISE NOTED.

1. ALL WATER MAIN STATIONING IS BASED ON CENTERLINE OF THE

THEREFORE THE ENGINEER MAKES NO GUARANTEE OF THE ACCURACY OR COMPLETENESS OF THE UTILITY LOCATIONS OR OF THE EXISTENCE OR NONEXISTENCE OF ANY UTILITY OR UNDERGROUND STRUCTURES SHOWN. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEANS NECESSARY TO PROTECT ANY UTILITY. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DAMAGE TO EXISTING ABOVE OR UNDERGROUND UTILITIES, INCLUDING THOSE NOT

SHOWN ON THESE PLANS.

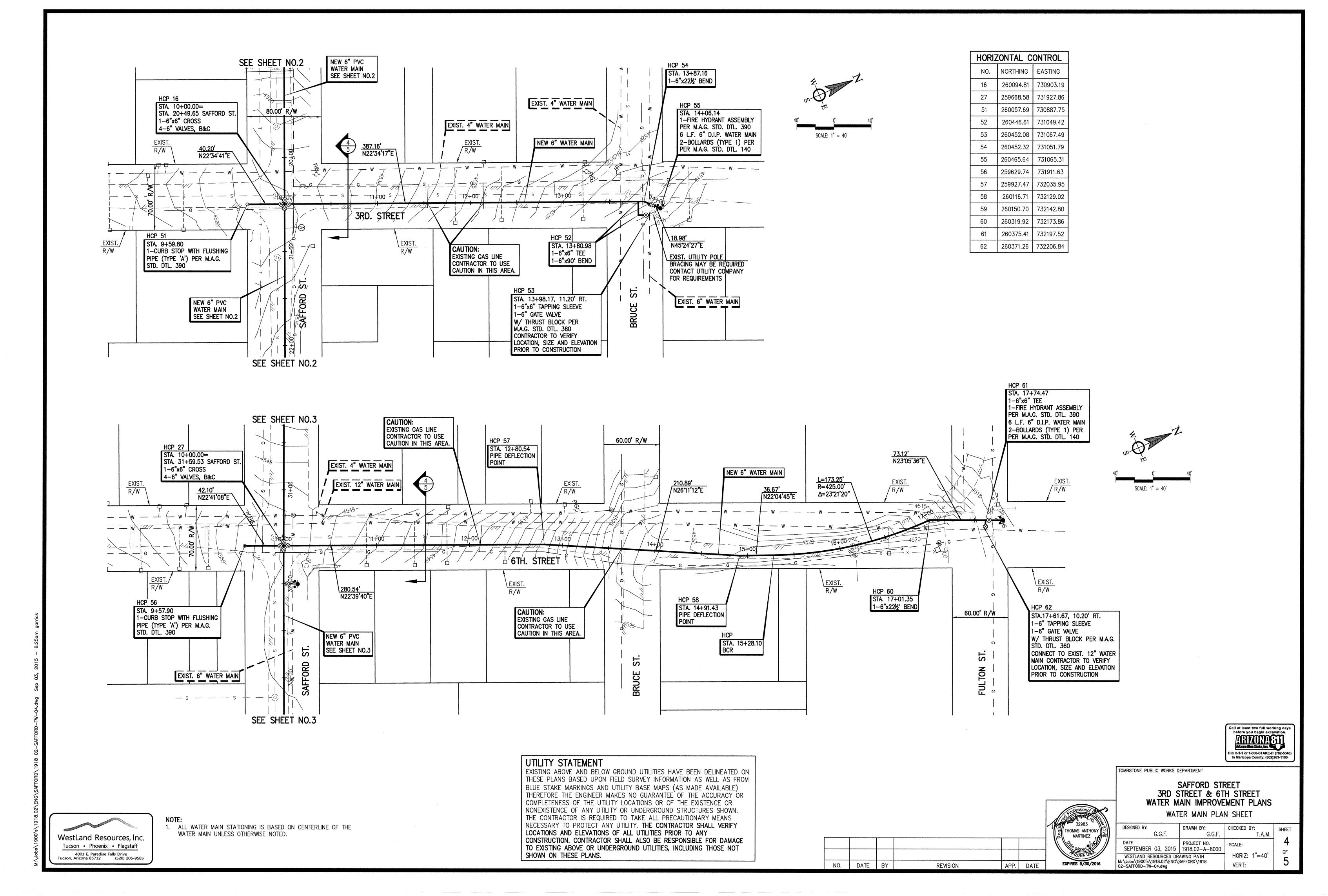
OHT Kegi						
EXPIR	DATE	APP.	REVISION	BY	DATE	NO.

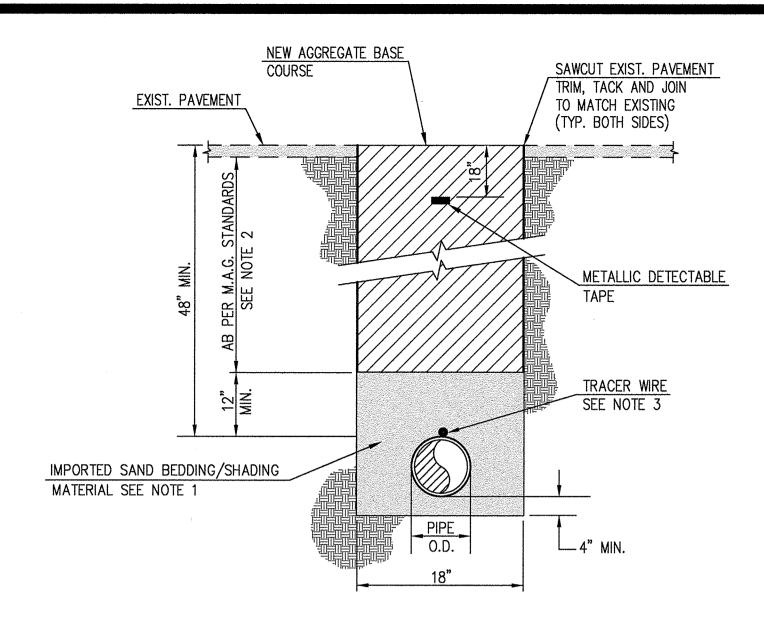
IOMAS ANTHONY MARTINEZ

WATER MAIN PLAN SHEET

DESIGNED BY: DRAWN BY: PROJECT NO. SEPTEMBER 03, 2015 | 1918.02-A-8000 WESTLAND RESOURCES DRAWING PATH M:\Jobs\1900's\1918.02\ENG\SAFFORD\1918 02-SAFFORD-TW-03.dwg

CHECKED BY: SHEET T.A.M. HORIZ: 1"=40'



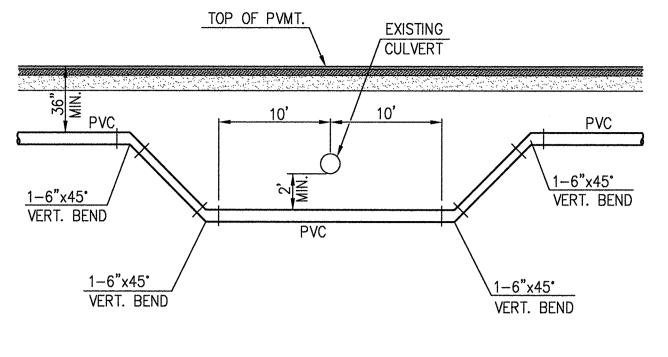


NOTES:

TRENCH DETAIL

N.T.S.

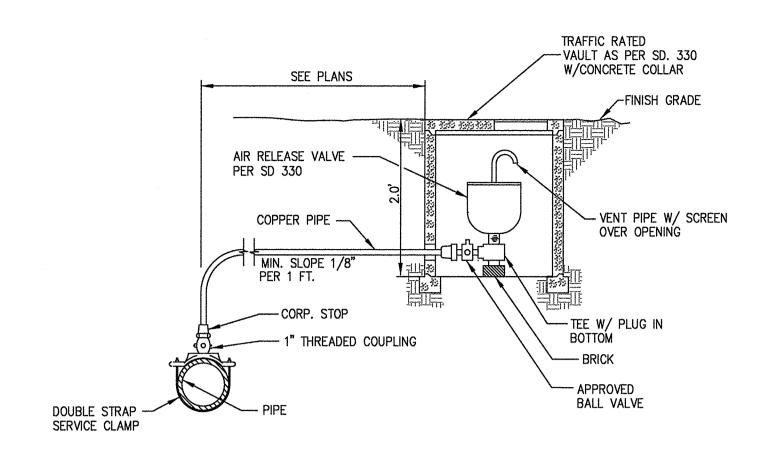
- 1. IMPORTED SAND BEDDING/BACKFILLING AND COMPACTION SHALL BE REQUIRED AND SHALL MEET THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) SPECIFICATIONS 601.
- AGGREGATE BASE COUSE SHALL BE PER M.A.G. STANDARDS SPECIFICATIONS 310 AND 702.
- 3. CONTRACTOR IS REQUIRED TO INSTALL ONE #12 UF STANDARD DIRECT BURIAL WIRE TAPED TO THE TOP OF PVC PIPE OR BAGGED DIP WITH 3' LOOPS BROUGHT UP AROUND VALVE RISERS. THE TRACER WIRE SHALL BE CERTIFIED BY A LICENSED ELECTRICAL CONTRACTOR FOR CONTINUITY. SPLICES SHALL BE MADE WITH SILICON SPLICE AND SHALL BE INSPECTED. SIGNAL INDUCED TEST RESULTS WILL NOT BE ACCEPTED. TRACER WIRE TO BE BROUGHT UP ON ALL DRAIN VALVE ASSEMBLIES AND IN-LINE VALVES. TRACER WIRE REQUIRED FOR ALL WATER MAIN LINES. WIRE SHALL BE TAPED TO THE WATER MAIN WITH 10 MIL. TAPE EVERY 60 FEET. INCLUDING SERVICE LINES.



NOTE:

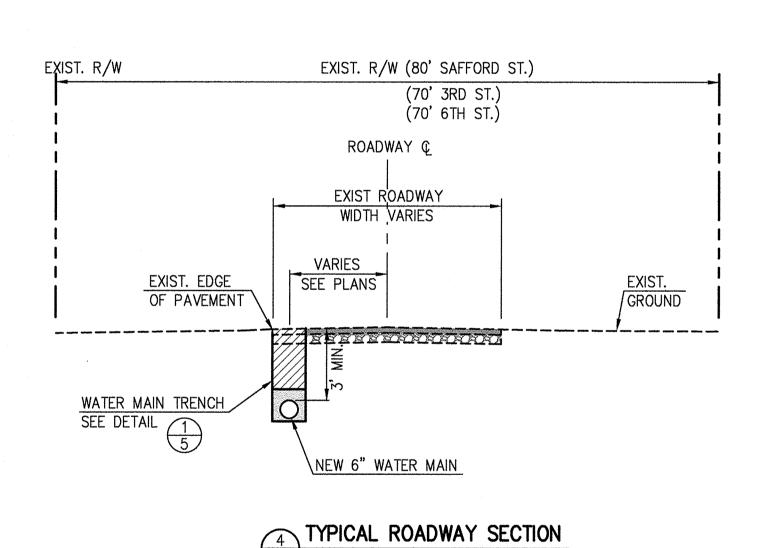
CONTRACTOR TO INSTALL 1" COMBINATION AIR RELEASE/AIR VACUUM VALVES AT ALL HIGH POINTS. SEE PLANS FOR PROPOSED

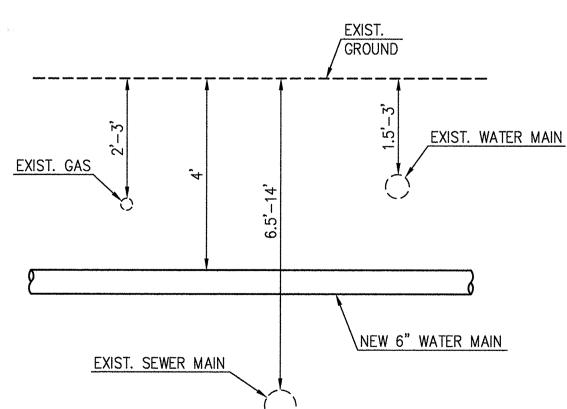




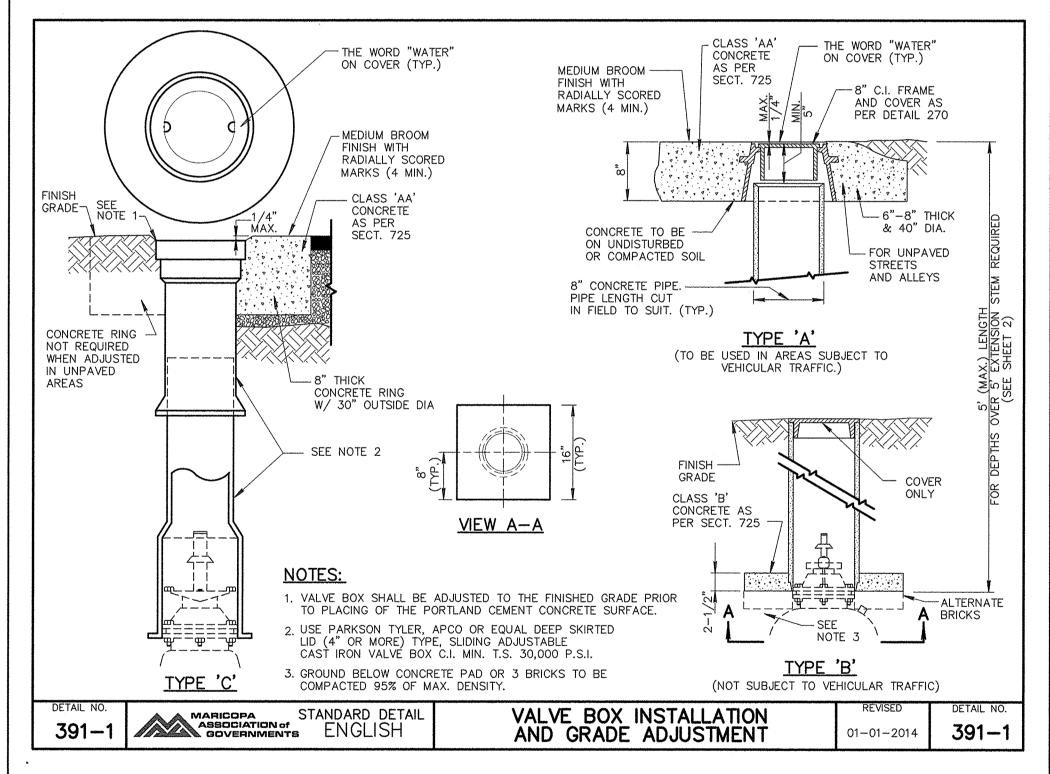
AIR RELEASE VALVE DETAIL

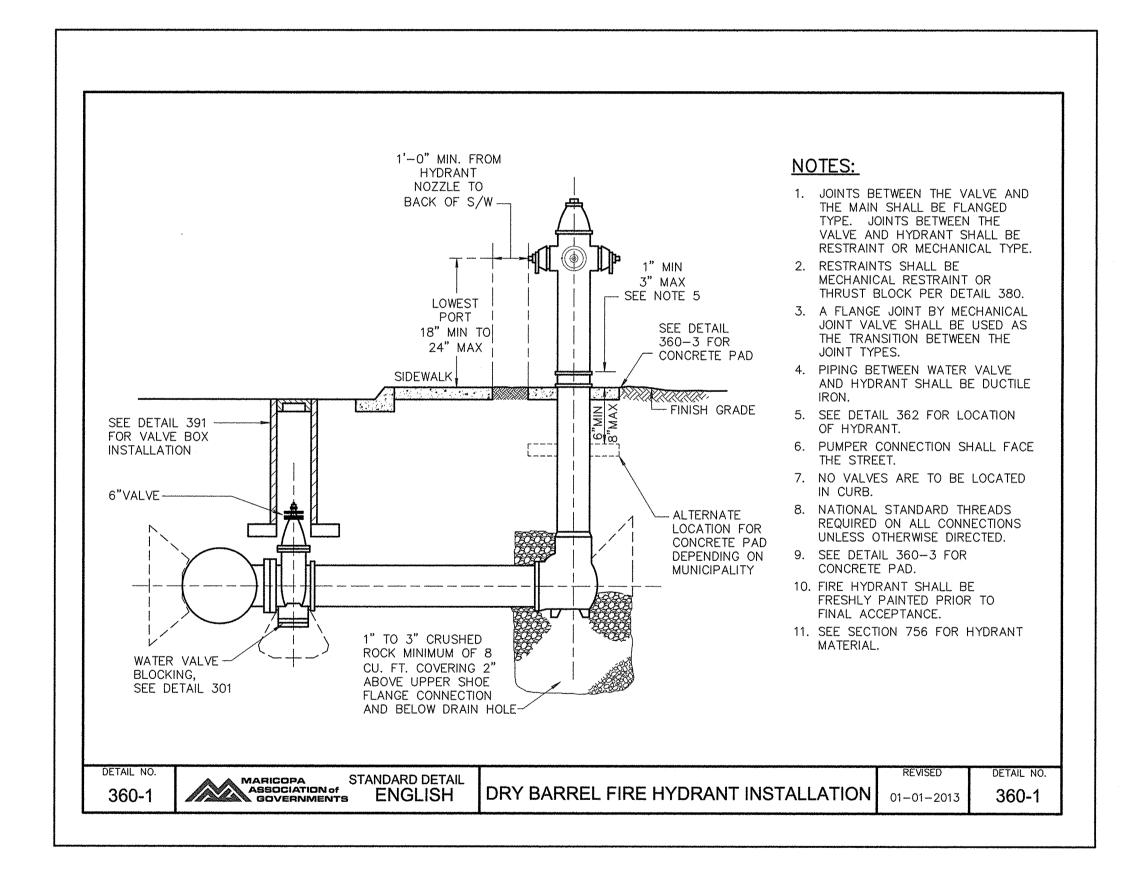
SD-330 AND SD-331 REFERS TO STANDARD DETAIL NUMBER FROM "TUCSON WATER STANDARD SPECIFICATIONS AND DETAILS", LATEST EDITION.











FIRE HYDRANT DETAIL



32983 THOMAS ANTHONY MARTINEZ

APP. DATE

REVISION

NO. DATE BY

TOMBSTONE PUBLIC WORKS DEPARTMENT SAFFORD STREET 3RD STREET & 6TH STREET WATER MAIN IMPROVEMENT PLANS

DETAIL SHEET DESIGNED BY: DRAWN BY: CHECKED BY: SHEET G.G.F. T.A.M. PROJECT NO. SEPTEMBER 03, 2015 | 1918.02-A-8000 HORIZ: WESTLAND RESOURCES DRAWING PATH M:\Jobs\1900's\1918.02\ENG\SAFFORD\1918 02-SAFFORD-TW-05.dwg

VALVE BOX DETAIL

LOCATIONS.

5 DEPTHS ARE APPROXIMATE N.T.S.

WestLand Resources, Inc

Tucson • Phoenix • Flagstaff

4001 E. Paradise Falls Drive Tucson, Arizona 85712 (520) 206-9585