

# ONSITE/OFFSITE FIRE LINE PLAN for HEAD START - TOLLESON

2504 SOUTH 91ST AVENUE PHOENIX, ARIZONA  
A PORTION NORTHEAST QUARTER OF SECTION 16, TOWNSHIP 1 NORTH, RANGE 1 EAST OF THE  
GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA

## CITY OF PHOENIX - FIRE LINE NOTES

- ALL CONSTRUCTION IN CITY OF PHOENIX R.O.W. IS TO CONFORM TO M.A.G. SPECIFICATIONS AND DETAILS AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS, UNLESS MODIFIED ON THE PLANS.
- PLANNING & DEVELOPMENT DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811.
- IT IS REQUIRED THAT A FORMAL WRITTEN REQUEST FOR A FIRE LINE TURN-ON BE RECEIVED BY CIVIL ENGINEERING OF THE PLANNING & DEVELOPMENT DEPARTMENT FROM CITY OF PHOENIX FIRE PREVENTION UPON COMPLETION OF THE FIRE LINE WORK. THIS JOB IS NOT COMPLETE UNTIL THIS HAS BEEN DONE AND THE LINE TURNED ON BY THE WATER SERVICES DEPARTMENT.
- THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:  
390 CURB STOP WITH FLUSHING PIPE  
391-1 VALVE BOX INSTALLATION  
346 FIRE LINE DETECTOR CHECK VAULT
- 6" TAPPED CAP WITH BALL VALVE RATE 300 PSI OR GREATER AT THE END OF OFFSITE WORK IS REQUIRED IF ONSITE WORK IS NOT CONCURRENT WITH OFFSITE CONSTRUCTION. THE TAPPED CAP MUST BE INSTALLED BEFORE THE BACKFLOW PREVENTION DEVICE.
- FIRE LINE CONNECTION TO CITY MAINS SHALL BE USED FOR FIRE PROTECTION SYSTEM ONLY. NO METERED SERVICES CAN BE CONNECTED TO A FIRE LINE.
- BACKFLOW PREVENTION DEVICES ARE REQUIRED ON ALL FIRE LINES. CONNECTIONS ARE TO BE IN ACCORDANCE WITH UNIVERSITY OF SOUTHERN CALIFORNIA - MANUAL OF CROSS-CONNECTION CONTROL. SEE BUILDING SAFETY FOR DETAILS. BACKFLOW DEVICES ARE TO BE SHOWN ON THE OFFSITE PLAN. FIRE LINES THAT ARE PROPOSED WITH BACKFLOW PREVENTION DEVICES SHALL BE REQUIRED TO PROVIDE A CERTIFICATE OF APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC - FCCCHR), PRIOR TO FIRE LINE PERMIT ISSUANCE, PER ARIZONA ADMINISTRATIVE CODE R18-4-115D.
- BACKFLOW PREVENTION DEVICES SHALL NOT BE LOCATED IN DRIVEWAYS, VISIBILITY TRIANGLES, OR OTHER LOCATIONS WHERE ACCIDENTAL DAMAGE OR VISIBILITY OBSTRUCTION WOULD BE A LIKELY CONSEQUENCE.
- BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED OUTSIDE OF RIGHT-OF-WAY AT (OR NEAR) THE PROPERTY LINE (POINT OF SERVICE) AND SHALL BE FULLY ACCESSIBLE FOR THE PERIODIC TESTING, REPAIRS, AND REPLACEMENT. THERE SHALL BE AN UNOBSTRUCTED RADIUS OF NO LESS THAN THREE (3) FEET FROM THE OUTER PERIMETER OF THE BACKFLOW PREVENTION DEVICE PER THE 2006 PHOENIX FIRE CODE (INTERNATIONAL FIRE CODE) SECTION 901.10.
- IN THE ABSENCE OF SPECIFIC PRESSURE DROP INFORMATION, THE DIAMETER OF THE INLET OR OUTLET OF ANY BACKFLOW PREVENTION DEVICE OR ITS CONNECTING PIPING SHALL NOT BE LESS THAN THE DIAMETER OF SUCH WATER DISTRIBUTION PIPING TO THE FIXTURES SERVED BY THE DEVICE, PER UPC 610.2. IF AVAILABLE, PRESSURE DROP INFORMATION SHALL BE PROVIDED WITH THE SUBMITTED PLANS.
- LOOPED ONSITE FIRE LINE SYSTEMS SHALL BE PROVIDED A BACKFLOW PREVENTER AT EACH POINT OF CONNECTION TO THE PUBLIC WATER SYSTEM, PER UPC 603.3.11.
- ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX TRAFFIC BARRICADE MANUAL.
- PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. SECTION 336 AND C.O.P. DETAIL P1200 TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING & DEVELOPMENT OFFSITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX R.O.W., WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX R.O.W.
- MINIMUM COVERAGE OVER THE TOP OF PIPE SHALL BE FOUR (4) FEET IF THE MAIN IS LOCATED IN A MAJOR STREET OR THE MAIN IS 12" OR LARGER. OTHERWISE, THREE (3) FEET OF COVER OVER THE TOP OF THE PIPE IS REQUIRED.
- COMPACTION SHALL COMPLY WITH M.A.G. SEC. 601, 95% MINIMUM IN A PUBLIC STREET.
- ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT 00164 AND ORDINANCE G-6308).
- APPROVAL OF THESE PLANS SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE OR OTHER HEALTH/SAFETY ISSUE.
- PLAN APPROVAL IS VALID FOR 12 MONTHS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

## ENGINEER'S GENERAL UTILITY NOTES

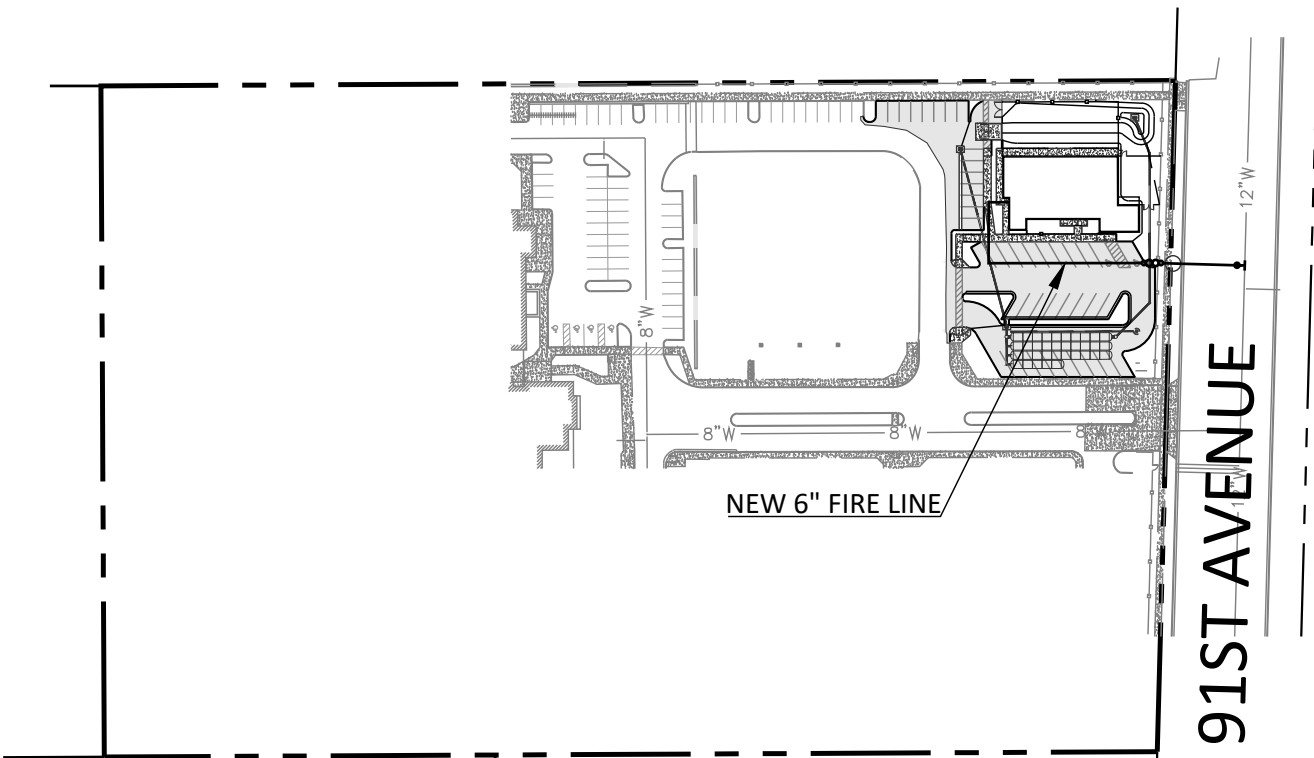
- EXISTING UTILITY LOCATIONS, AS SHOWN ON THE PLANS, WERE COMPILED AND ARE PRESENTED BASED UPON PRELIMINARY INFORMATION AVAILABLE TO CYPRESS CIVIL DEVELOPMENT. UTILITY LOCATIONS AS SHOWN ARE NOT INTENDED TO BE EXACT OR COMPLETE AND CYPRESS CIVIL DEVELOPMENT DOES NOT ACCEPT LIABILITY OR RESPONSIBILITY FOR ANY INACCURACIES IN THE UTILITY LOCATIONS OR ANY UTILITY RELOCATIONS THAT MAY BE NECESSARY. PRIOR TO EXCAVATION, ARIZONA STATUTES REQUIRE THAT ANYONE WHO INTENDS TO EXCAVATE MUST PROVIDE TWO FULL WORKING DAYS NOTICE TO THE OWNERS OF ALL UTILITIES WITHIN THE PROJECT AREA. EXCAVATORS SHOULD CONTACT "ARIZONA BLUE STAKE" @ 1-800-782-5348 TWO (2) FULL WORKING DAYS PRIOR TO EXCAVATION. SATURDAYS, SUNDAYS, AND STATE HOLIDAYS ARE NOT CONSIDERED WORKING DAYS. ALSO BE ADVISED THAT THERE MAY BE OTHER UTILITIES IN THE PROJECT AREA THAT ARE NOT MEMBERS OF "ARIZONA BLUE STAKE". THE CONTRACTOR IS RESPONSIBLE TO POT HOLE ALL UTILITIES (SHOWN OR NOT SHOWN ON THE PLANS) MARKED BY BLUE STAKE PRIOR TO COMMENCING CONSTRUCTION OPERATIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UNCOVER ALL EXISTING WATER AND SEWER LINES BEING CONNECTED TO AND TO VERIFY THE LOCATIONS, DEPTH, FLOW LINE, ELEVATIONS, AND SIZE OF PIPE BEFORE ANY CONSTRUCTION BEGINS.
- ANY CONSTRUCTION PERFORMED WITHOUT THE KNOWLEDGE OF THE INSPECTOR OR HIS REPRESENTATIVE IS LIABLE FOR REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL VERIFY FINISHED GRADES AS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLANS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE LOCATION AND INVERT OF THE BUILDING UTILITIES AS SHOWN ON THE APPROVED PLUMBING PLAN PRIOR TO CONSTRUCTION.
- ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- ANY QUESTIONS RAISED RELATIVE TO THE ACCURACY OF IMPROVEMENT INSTALLATION SHALL BE RAISED PRIOR TO THE COMMENCEMENT OF THE WORK IN QUESTION.
- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT TO CONSTRUCT/INSTALL THE IMPROVEMENTS SHOWN ON THESE PLANS UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "AS-BUILT" DRAWINGS TO THE MUNICIPALITY HAVING JURISDICTION.
- DIMENSIONS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY; SEE THE ARCHITECT'S DIMENSIONED SITE PLAN OR HORIZONTAL CONTROL PLAN FOR SITE LAYOUT. DO NOT SCALE THESE PLANS.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
- THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT GEOTECHNICAL TESTING LABORATORY ACCEPTABLE TO PROVIDE THE CONSTRUCTION TESTING OF THE PROJECT BEDDING AND BACKFILL. DURING THE COURSE OF CONSTRUCTION, TEST RESULTS SHALL BE SUBMITTED TO THE CONTRACTOR AND OWNER WHICH INDICATE IF WORK IS BEING DONE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.
- ALL VALVE BOXES, METER BOXES, MANHOLE RIMS, SEWER CLEAN OUT RIMS, ETC. SHALL BE ADJUSTED TO FINAL FINISHED GRADE PER MAG STANDARD DETAIL 270 AND 422 PRIOR TO ACCEPTANCE OF THE WORK BY OWNER.
- ALL NON-METALIC BURIED UTILITY LINES SHALL HAVE #12 AWG COPPER CLAD STEEL TRACER WIRE WITH 30 MIL (HDPE) INSULATION. SECURELY ATTACH WIRE TO PIPE AT 8' INTERVALS. SEE WATER LINE TERMINATION DETAIL THIS SHEET. TRACER WIRE COLORS SHALL BE AS FOLLOWS:  
PRIVATE WATER LINE - BLUE  
PRIVATE SEWER LINE - GREEN  
PRIVATE STORM DRAIN LINE - GREEN  
PRIVATE GAS - YELLOW

## ONSITE FIRE LINE QUANTITIES

6" BACKFLOW PREVENTER	1	EA
6" D.I.P. FIRE LINE	173	LF
6" 90° BEND	2	EA

## OFFSITE FIRE LINE QUANTITIES

6"x6" TS, V, B, & C	1	EA
6" D.I.P. FIRE LINE	71	LF
ASPHALT REPLACEMENT	22	SY
SIDEWALK REPLACEMENT	25	SF
CURB & GUTTER REPLACEMENT	10	LF



## PROJECT OVERVIEW

## ENGINEER'S PRIVATE FIRE LINE NOTES

- ALL ON-SITE FIRE SERVICE MAINS ARE PRIVATE. INSTALLATION, MATERIALS, AND TESTING SHALL BE PER THE REQUIREMENTS OF THE INTERNATIONAL FIRE CODE AND THE LATEST EDITION AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PUBLICATION 24.
- COMPACTION, BEDDING, AND BACKFILL SHALL BE PER M.A.G. UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE RECOMMENDATIONS FOR UTILITY EXCAVATION CONTAINED WITHIN THE GEOTECHNICAL REPORT.

## PROJECT INFORMATION

SCOPE:  
THE PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW SINGLE-STORY PRESCHOOL BUILDING WITH THE INSTALLATION OF A 6" DIP FIRE LINE FROM THE 12" DIP WATER MAIN TO THE FIRE SUPPRESSION SYSTEM IN THE NEW BUILDING.

ADDRESS:  
2504 SOUTH 91ST AVENUE  
TOLLESON, ARIZONA 85353

APN: 101-14-007D

ZONING: S-1

EXISTING BUILDING CONSTRUCTION TYPE: VB  
BUILDING AREA: 5,018 SF  
NFPA 13 FIRE SPRINKLER REQUIRED

AREA  
TOTAL: 435,602 SF (10.000 AC)  
DISTURBED: 35,416 SF (0.813 AC)

## SURVEY NOTES

- THE SURVEY FOR THIS PROJECT WAS PERFORMED BY:  
SUPERIOR SURVEYING SERVICES, INC.  
2122 WEST LONE CACTUS DRIVE, SUITE 11  
PHOENIX, ARIZONA 85027  
PH: 623-869-0223  
CONTACT: DAVID S. KLEIN, R.L.S.
- THE BASIS OF BEARINGS FOR THIS PROJECT IS THE MONUMENT LINE OF LOWER BUCKEYE ROAD, ALSO BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 16, USING A BEARING OF SOUTH 89°43'00" WEST, PER THE PLAT OF THE HOME DEPOT 91ST AVENUE AND LOWER BUCKEYE, BOOK 958 OF MAPS, PAGE 7, RECORDS OF MARICOPA COUNTY, ARIZONA.
- THE BASIS OF ELEVATION FOR THIS PROJECT IS THE CITY OF PHOENIX POINT ID: 19, HAVING A DESCRIBED LOCATION AND ELEVATION AS "SALT RIVER VALLEY WATER USERS ASSOCIATION BRASS CAP ON EAST SIDE OF IRRIGATION BOX LOCATED AT THE NORTHWEST CORNER OF INTERSECTION OF 83RD AVENUE AND LOWER BUCKEYE ROAD". TEMPORARY BENCHMARK ELEVATION = 1003.945', NGVD29.

## LEGAL DESCRIPTION

PART OF THE SOUTHEAST QUARTER OF SECTION 16, TOWNSHIP 1 NORTH, RANGE 1 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 16;  
THENCE NORTH 01°36'40" EAST, ALONG THE EAST SECTION LINE OF SAID SECTION 16, A DISTANCE OF 760.90 FEET;  
THENCE SOUTH 89°45'51" WEST, A DISTANCE OF 33.02 FEET TO THE WEST RIGHT-OF-WAY LINE OF 91ST AVENUE AND THE TRUE POINT OF BEGINNING;  
THENCE CONTINUING SOUTH 89°45'51" WEST, A DISTANCE OF 844.60 FEET;  
THENCE NORTH 00°13'48" WEST, A DISTANCE OF 524.18 FEET;  
THENCE NORTH 89°45'51" EAST, A DISTANCE OF 861.45 FEET TO THE SAID WEST RIGHT-OF-WAY LINE OF 91ST AVENUE;  
THENCE SOUTH 01°36'40" WEST, A DISTANCE OF 524.45 FEET TO THE TRUE POINT OF BEGINNING;  
EXCEPT THE EAST 22 FEET THEREOF AS CONVEYED TO THE CITY OF PHOENIX BY QUIT-CLAIM DEED RECORDED IN INSTRUMENT NO. 2005-1552374; AND ALSO EXCEPT ALL MINERALS, ORES, AND METALS OF EVERY KIND AND CHARACTER AND ALL COAL, ASPHALTUM, OIL, GASES, FERTILIZERS, FOSSILS, AND OTHER LIKE SUBSTANCES IN OR UNDER SAID LAND AS RESERVED BY THE STATE OF ARIZONA IN THE PATENT TO SAID LAND RECORDED IN BOOK 130 OF DEEDS, PAGE 239; AND ALSO EXCEPT ALL MINERALS, OIL AND GAS, AND HYDROCARBON SUBSTANCES UNDERLYING SAID LAND AS RESERVED IN DEED RECORDED IN DOCKET 1952, PAGE 192, RECORDS OF MARICOPA COUNTY, ARIZONA.

SCALE: 1"=150'

## UTILITY COMPANY CONFLICT

THESE PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES AND THE WORK CONTAINED IN THESE PLANS HAS BEEN APPROVED BY THESE COMPANIES WITHIN THEIR AREA OF INTEREST.

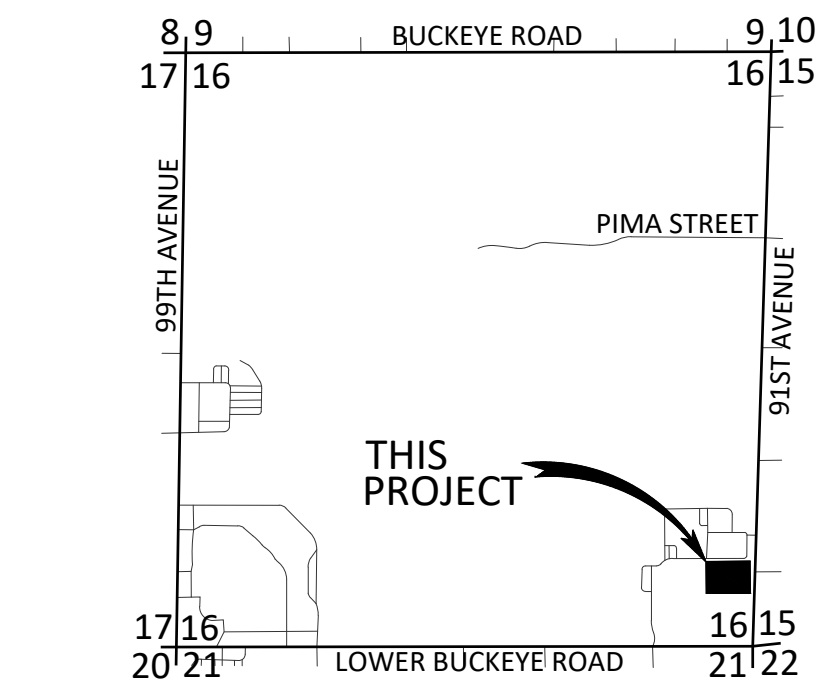
ARIZONA PUBLIC SERVICE	JENNIFER SOMES	COMPANY REPRESENTATIVE CONTACTED	DATE
CENTURYLINK	azreview@centurylink.com	COMPANY REPRESENTATIVE CONTACTED	DATE
SOUTHWEST GAS CO.	SOUTHWEST GAS CONFLICT REVIEW- W.V.	COMPANY REPRESENTATIVE CONTACTED	DATE
COX CABLE T.V.	phx.tmc@cox.com	COMPANY REPRESENTATIVE CONTACTED	DATE

## LEGEND

---	PROJECT RIGHT-OF-WAY	☉	EXISTING SEWER MANHOLE
---	EXISTING RIGHT-OF-WAY	☉	EXISTING SEWER CLEANOUT
---	PROJECT/NEW PROPERTY LINE	☉	EXISTING WATER VALVE
---	EXISTING PROPERTY LINE	☉	EXISTING WATER METER
---	ROADWAY CENTERLINE	☉	EXISTING BACKFLOW PREVENTER
---	EXISTING EASEMENT	☉	EXISTING FIRE HYDRANT
---	NEW EASEMENT	☉	EXISTING SIGN
---	EXISTING CONCRETE	☉	EXISTING SITE LIGHT
---	NEW WALL	☉	EXISTING STREET LIGHT
---	EXISTING CURB	☉	EXISTING ELECTRIC PULL BOX
---	EXISTING PAINT STRIPE	☉	EXISTING COMMUNICATION PULL BOX
---	EXISTING FENCE	☉	EXISTING LIGHT PULL BOX
---	NEW CURB	☉	EXISTING UTILITY POLE
---	NEW PAINT STRIPE	☉	
---	NEW FENCE	☉	
---	NEW WATER SERVICE	☉	
---	NEW FIRE SERVICE	☉	
---	NEW AC MICROSEAL	☉	
---	EXISTING UNDERGROUND ELECTRIC	☉	
---	EXISTING COMMUNICATION LINE	☉	
---	EXISTING OVERHEAD ELECTRIC	☉	
---	EXISTING IRRIGATION LINE	☉	
---	EXISTING SEWER LINE	☉	
---	EXISTING WATER LINE	☉	
---	EXISTING FIRE SERVICE	☉	
---	EXISTING GAS LINE	☉	
---	NEW FIRE HYDRANT	☉	
---	NEW WATER VALVE	☉	
---	NEW TAPPING SLEEVE	☉	
---	NEW FIRE CONNECTION	☉	
---	NEW FIRE BACKFLOW PREVENTER	☉	
---	NEW WATER METER	☉	
---	NEW BACKFLOW PREVENTER	☉	
---	NEW WATER STUB	☉	
---	Q.S. VALVE NUMBER	☉	
---	SURVEY MONUMENT AS NOTED	☉	

## BENCHMARK

THE BENCHMARK USED FOR THIS PLAN IS THE CITY OF PHOENIX POINT ID: 19, HAVING A DESCRIBED LOCATION AND ELEVATION AS "SALT RIVER VALLEY WATER USERS ASSOCIATION BRASS CAP ON EAST SIDE OF IRRIGATION BOX LOCATED AT THE NORTHWEST CORNER OF INTERSECTION OF 83RD AVENUE AND LOWER BUCKEYE ROAD". TEMPORARY BENCHMARK ELEVATION = 1003.945', NGVD29.



IN THE SE 1/4 OF THE SE 1/4 OF SECTION 16,  
T. 1 N., R. 1 E., G.&S.R.M.,  
CITY OF PHOENIX, ARIZONA COUNTY, ARIZONA  
**LOCATION MAP**  
NORTH  
3" = 1 MILE

## OWNER/DEVELOPER

CATHOLIC CHARITIES WESTSIDE HEAD START  
7400 WEST OLIVE AVENUE  
PEORIA, ARIZONA 85345  
PH: 623-486-9868  
ATTN: YATIN DUA

## CIVIL ENGINEER

RICK ENGINEERING  
2401 WEST PEORIA AVENUE, #130  
PHOENIX, ARIZONA 85029  
PH: 602-957-3350  
ATTN: JEFF HUNT, PE

## ARCHITECT

ARCHITECTURAL RESOURCE TEAM  
1055 EAST INDIAN SCHOOL ROAD  
PHOENIX, ARIZONA 85014  
PH: 602-307-5399  
ATTN: TERRI SOLIMAN

## UTILITIES

WATER: CITY OF PHOENIX  
SEWER: CITY OF PHOENIX  
ELECTRIC: SALT RIVER PROJECT  
GAS: SOUTHWEST GAS  
TELEPHONE: CENTURYLINK  
CABLE: COX COMMUNICATIONS

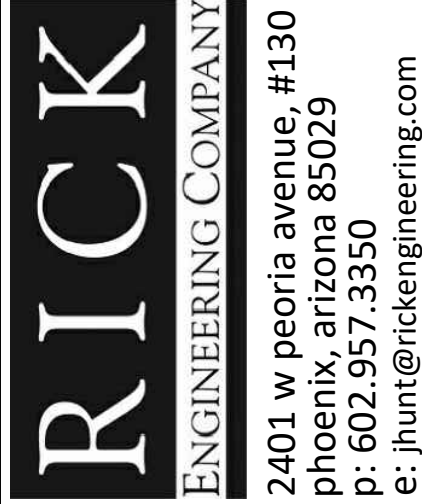
## SHEET INDEX

- COVER SHEET
- ONSITE/OFFSITE FIRE LINE PLAN

## AS-BUILT CERTIFICATION

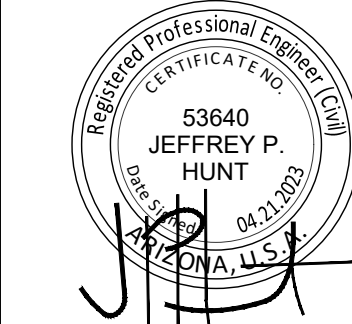
I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER/LAND SURVEYOR	DATE
REGISTRATION NUMBER	
APPROVAL	
APPROVAL FOR: THE CITY OF PHOENIX	
PLANNING & DEVELOPMENT DEPARTMENT	DATE



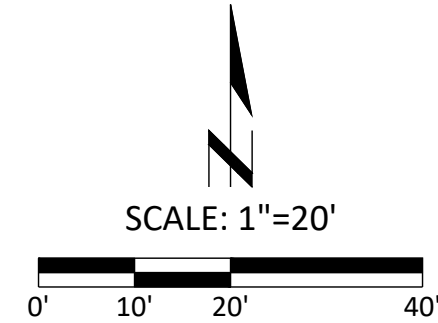
ONSITE/OFFSITE FIRE LINE PLAN for  
HEAD START - TOLLESON  
2504 SOUTH 91ST AVENUE PHOENIX, ARIZONA

cover



DRAWN:	PT
DESIGNED:	JH
CHECKED:	JH
DATE:	04-21-2023
JOB NO:	22.152
SHEET NUMBER	



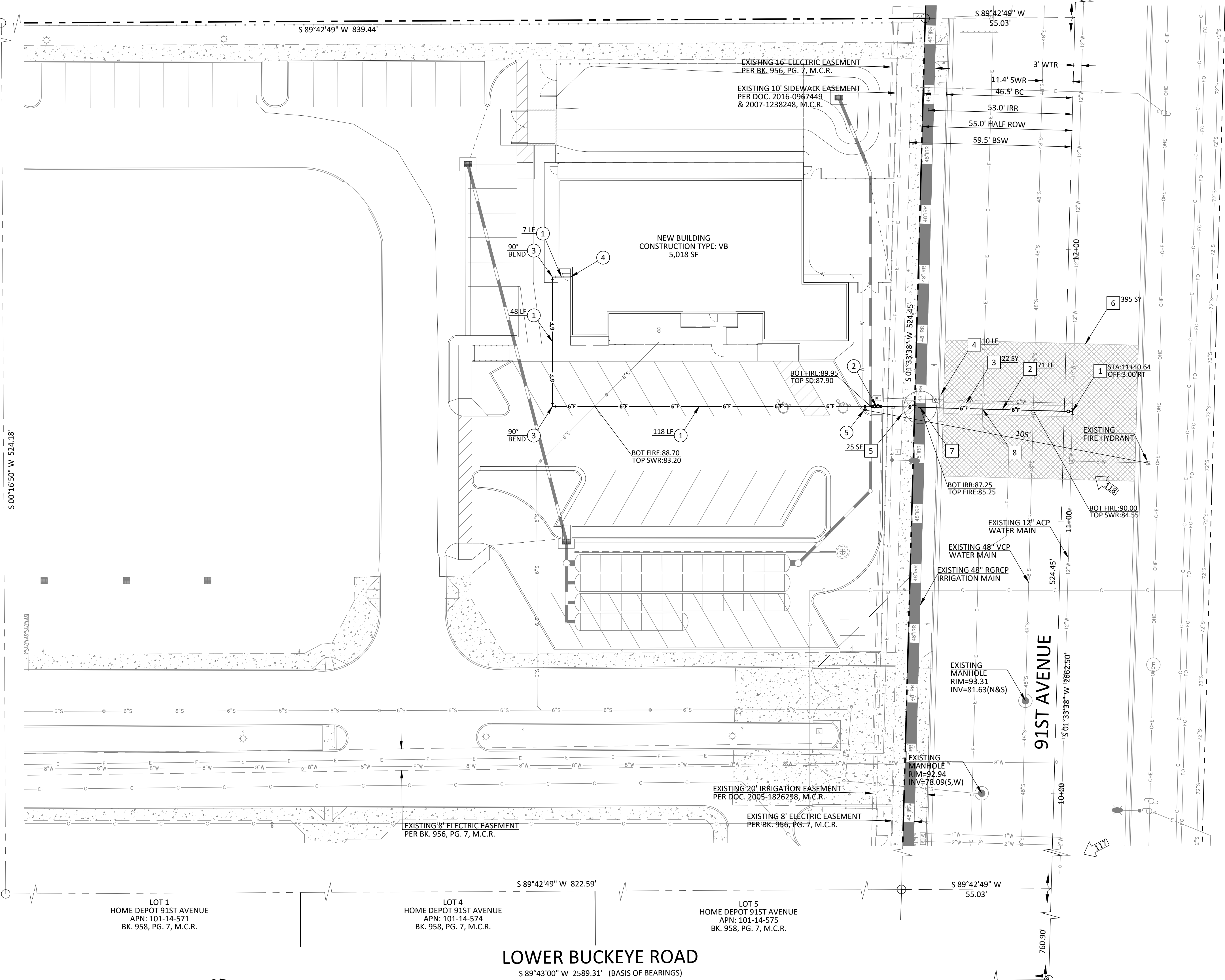


LOT 1  
GMS CONCRETE SPECIALISTS  
APN: 101-14-577  
BK. 1044, PG. 2, M.C.R.

STA+26+62.50  
FOUND CITY OF PHOENIX BRASS CAP FLUSH  
EAST QUARTER CORNER OF SECTION 16, T1N, R1E

DURANGO STREET

CITY OF PHOENIX  
APN: 101-14-005G  
2002-1304434, M.C.R.



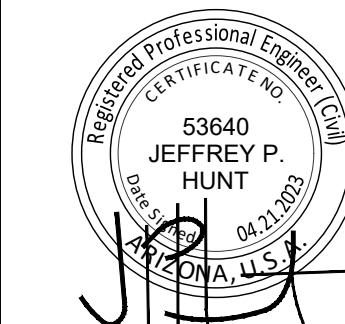
OFFSITE FIRE LINE KEYNOTES

- 1 INSTALL 12"X6" TAPPING SLEEVE, VALVE, BOX, AND COVER PER MAG DETAIL 340, CITY OF PHOENIX DETAIL P1391, AND MAG SPECIFICATION 630.4.2(A)(1).
- 2 NEW 6" DUCTILE IRON PIPE (PRESSURE CLASS 350). THRUST BLOCKS WILL NOT BE ALLOWED IN THE CITY OF PHOENIX RIGHT-OF-WAY. JOINT RESTRAINTS PER MAG DETAILS 302-1, 302-2, 303-1, AND 303-2 SHALL BE USED WHEN BENDS ARE ALLOWED IN CITY OF PHOENIX RIGHT-OF-WAY. LENGTH INDICATED PER PLAN.
- 3 SAWCUT AND REMOVE PAVEMENT. PAVEMENT REPLACEMENT THICKNESS AND TYPE SHALL BE PER CITY OF PHOENIX DETAIL P1200, TYPE 'B' AND MAG SECTION 336 OR REPLACE IN KIND, WHICHEVER IS GREATER.
- 4 SAWCUT AND REMOVE EXISTING CURB AND GUTTER TO NEAREST JOINT. REPLACE CURB AND GUTTER PER MAG DETAIL 220, TYPE 'A'. REPLACE MINIMUM ONE FULL SECTION.
- 5 SAWCUT AND REMOVE EXISTING SIDEWALK TO NEAREST JOINT. REPLACE SIDEWALK PER CITY OF PHOENIX DETAIL P1230. REPLACE MINIMUM ONE FULL SECTION. CONSTRUCT SIDEWALK TO ACCOMMODATE ACCESS PER ADA STANDARDS FOR ACCESSIBLE DESIGN. BACKFILL TRENCH BELOW SIDEWALK WITH ONE-HALF (1/2) SACK SLURRY.
- 6 CONTRACTOR SHALL CRACK AND MICRO SEAL PAVEMENT 25 FEET ON EITHER SIDE OF THE PAVEMENT CUT FOR THE TRENCH TO THE CURB LINE TO THE CENTERLINE PER MAG SPECIFICATION SECTION 331 AND REPLACE PAVEMENT MARKINGS IN KIND. PRIOR TO APPLYING MICROSEAL TREATMENT, THE CONTRACTOR SHALL FILL AND SEAL AREA BETWEEN NEW AND OLD PAVEMENT PER MAG SPECIFICATION SECTION 337.
- 7 VERTICALLY REALIGN FIRE LINE PER CITY OF PHOENIX DETAIL P1370; VERTICAL REALIGNMENT DETAIL, SHEET 3; AND SRP DETAIL WES-02604-001, SHEET 3.
- 8 CAUTION. BURIED UTILITY. CONTRACTOR SHALL POTHOLE ALL UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

ONSITE FIRE LINE KEYNOTES

- 1 NEW 6" DUCTILE IRON PIPE (PRESSURE CLASS 350). POLYWRAP PER MAG SECTION 610. LENGTH INDICATED PER PLAN. MINIMUM BURIAL DEPTH SHALL BE 36".
- 2 NEW 6" ZURN-WILKINS MODEL 450 BACKFLOW PREVENTER (OR APPROVED EQUAL). INSTALL PER MANUFACTURER SPECIFICATIONS. INSTALL SUPERVISION ELECTRONICS PER FIRE SPRINKLER PLANS.
- 3 NEW DUCTILE IRON FITTING (350 PSI RATING). TYPE/ANGLE INDICATED ON PLAN. INSTALL THRUST BLOCKS PER MAG DETAIL 380 AND NFPA 24, CHAPTER 10.
- 4 CONNECT TO BUILDING FIRE RISER PER FIRE SUPPRESSION PLANS. VERIFY SIZE AND LOCATION PRIOR TO CONSTRUCTION.
- 5 NEW REMOTE FIRE DEPARTMENT CONNECTION (FDC) PER DETAIL A, SHEET 3.

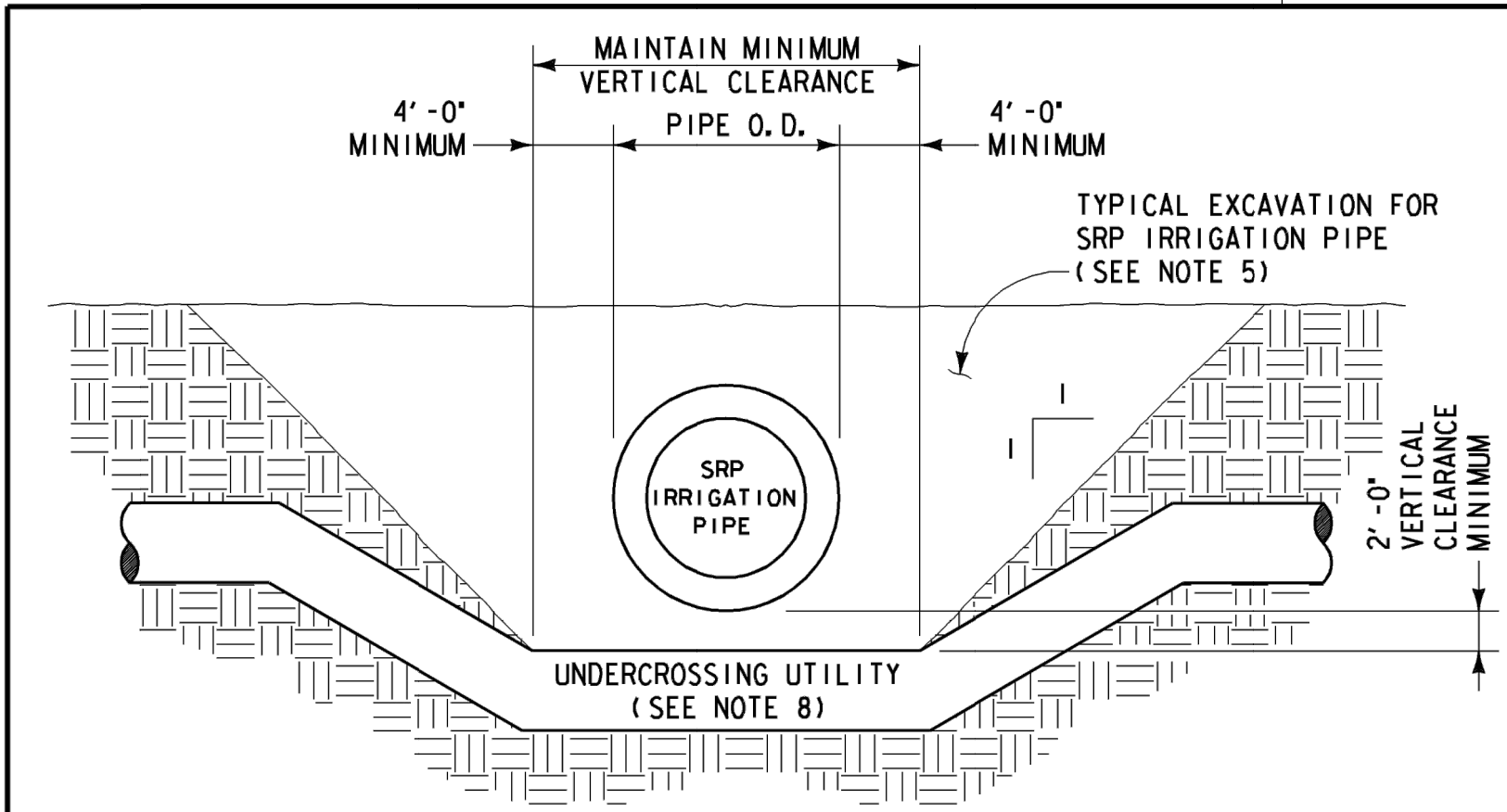
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HEAD START - TOLLESON  
2504 SOUTH 91ST AVENUE PHOENIX, ARIZONA  
onsite / offsite fire line plan



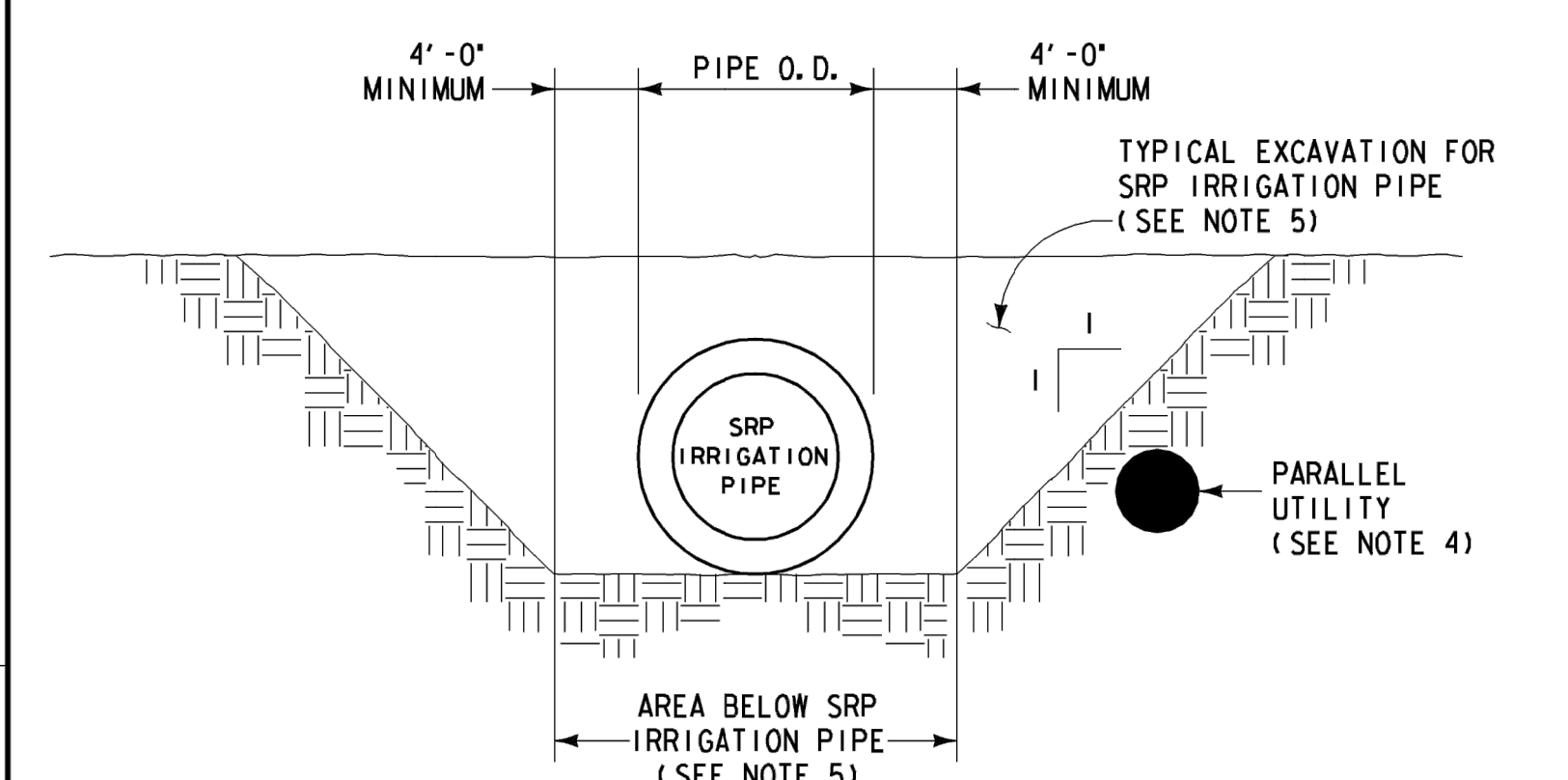
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DESIGNED: JH  
CHECKED: JH  
DATE: 04-21-2023  
JOB NO: 22.152  
SHEET NUMBER

KIVA: XX-XXXX  
SDEV: XXXXXXXX  
CPFL:  
Q.S.: XX-XX

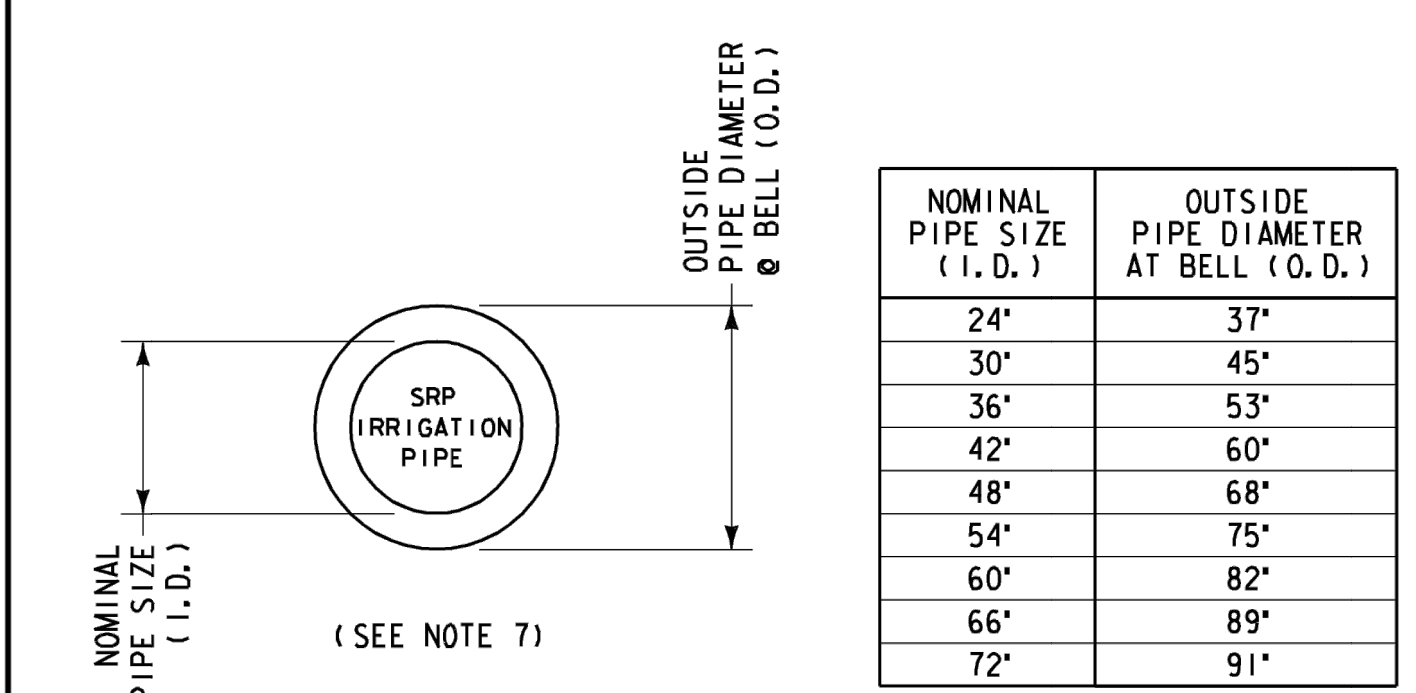




PIPELINE - UNDERCROSSING

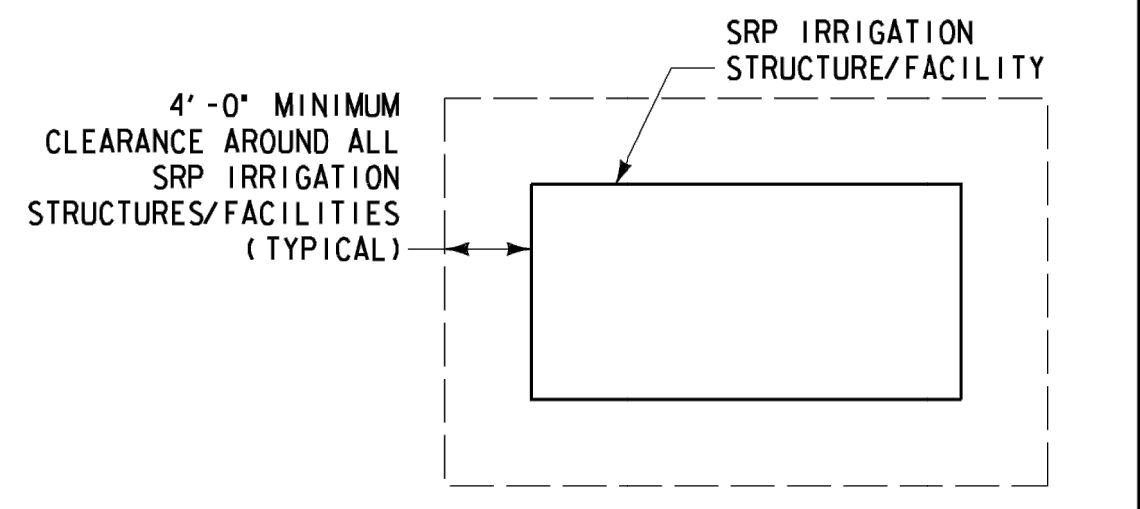


PIPELINE - PARALLEL UTILITY



NOMINAL PIPE SIZE (I.D.)	OUTSIDE PIPE DIAMETER AT BELL (O.D.)
24"	37"
30"	45"
36"	53"
42"	60"
48"	68"
54"	75"
60"	82"
66"	89"
72"	91"

- NOTES**
- OVERCROSSINGS OF SRP IRRIGATION PIPE ARE REVIEWED ON A CASE-BY-CASE BASIS, EXCEPT FOR THOSE CASES SPECIFICALLY IDENTIFIED BELOW, OVERCROSSINGS ARE TYPICALLY NOT ALLOWED.
  - MAINTAIN MINIMUM 12" CLEARANCE BETWEEN SRP IRRIGATION PIPE AND OVERCROSSING ELECTRICAL CABLE/CONDUIT (1" DIA. OR LESS).
  - MAINTAIN MINIMUM 12" CLEARANCE BETWEEN SRP IRRIGATION PIPE AND CLOSEST POINT OF OVERCROSSING SCUPPER. SCUPPER SHALL CONFORM TO MAG STANDARD DETAIL 203 OR 206.
  - UTILITIES PARALLEL TO SRP IRRIGATION PIPE ARE REVIEWED ON A CASE-BY-CASE BASIS. LOCATE PARALLEL UTILITY OUTSIDE OF AREA SRP EXCAVATES WHEN MAINTAINING IRRIGATION PIPE, OR 4' -0" BEYOND THE SIDE OF THE OUTSIDE BELL DIAMETER OF THE SRP IRRIGATION PIPE, WHICHEVER IS GREATER. TYPICAL EXCAVATION INCLUDES AREA ABOVE AND TO EACH SIDE OF SRP IRRIGATION PIPE. SIDE EXCAVATION INCLUDES AREA ABOVE A LINE EXTENDING UPWARD AND OUTWARD AT A ONE-TO-ONE SLOPE FROM A POINT LEVEL WITH THE BOTTOM OF AND 4' -0" BEYOND THE SIDE OF THE OUTSIDE BELL DIAMETER OF THE SRP IRRIGATION PIPE.
  - OTHER UTILITIES NOT PERMITTED IN THESE AREAS.
  - CLEARANCE IS MEASURED FROM OUTSIDE BELL DIAMETER OF SRP IRRIGATION PIPE. OUTSIDE BELL DIAMETER IS SIGNIFICANTLY LARGER THAN NOMINAL PIPE SIZE (INSIDE DIAMETER) NOTED ON PLAN/PROFILE DRAWINGS. SEE TABLE FOR NOMINAL PIPE SIZES AND OUTSIDE BELL DIAMETERS.
  - SPECIFIED CLEARANCES ARE FOR USE WITH RUBBER GASKETED REINFORCED CONCRETE PIPE (RGRCP) UP TO AND INCLUDING 72" NOMINAL PIPE SIZE. GREATER CLEARANCE OR REPLACEMENT IS REQUIRED FOR LARGER DIAMETER RGRCP, CAST-IN-PLACE PIPE (CIPP) AND NON-REINFORCED CONCRETE PIPE.
  - ASSURE CONTINUOUS SUPPORT AND PROTECTION OF SRP IRRIGATION PIPE. DAMAGE TO SRP IRRIGATION PIPE/SYSTEM WILL BE REPAIRED BY SRP. ALL DIRECT AND INDIRECT COSTS SHALL BE BORNE BY OTHER UTILITY/LICENSEE.
  - TRENCH BACKFILL COMPACTION SHALL BE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) TYPE I OR TYPE III, EXCEPT THAT 95 % COMPACTION SHALL BE REQUIRED FROM 1' -0" ABOVE TOP OF PIPE TO BOTTOM OF TRENCH. WATER CONSOLIDATION IS NOT PERMITTED.
  - COMPLY WITH MAG UNIFORM STANDARD SPECIFICATIONS AND STANDARD DETAILS UNLESS OTHERWISE NOTED IN PROJECT SPECIFIC SRP DOCUMENTS. MOST STRINGENT REQUIREMENTS SHALL APPLY UNLESS SPECIFICALLY NOTED OTHERWISE IN SRP DOCUMENTS.
  - COMPLY WITH ALL APPLICABLE STATUTES, ORDINANCES AND REGULATIONS INCLUDING BLUE STAKE LAW (A.R.S. SEC. 40-360-21 ET SEQ.).
  - THESE GUIDELINES ARE PROVIDED AS A GENERAL AID TO PLANNING. ACTUAL SRP REQUIREMENTS MAY VARY BASED ON SITE-SPECIFIC CONDITIONS, OPERATIONAL CONSIDERATIONS, ETC.
  - AN SRP LICENSE IS REQUIRED FOR UTILITIES CROSSING/PARALLEL TO SRP IRRIGATION PIPE IN SRP RIGHT-OF-WAY. SRP REQUIRES ENGINEER DESIGNED UTILITY CROSSING/LOCATION AND EXCAVATION PLAN.
  - NOTIFY SRP INSPECTOR A MINIMUM OF 72 HOURS BEFORE STARTING CONSTRUCTION IN OR AROUND SRP IRRIGATION FACILITIES. AN IRRIGATION OUTAGE AGREEMENT MUST BE COMPLETED BY THE CONTRACTOR IF A DRY-UP OF ANY PART OF THE IRRIGATION SYSTEM WILL BE NECESSARY DURING CONSTRUCTION. ISSUANCE OF A LICENSE DOES NOT PROVIDE FOR A CONSTRUCTION DRY-UP.



IRRIGATION STRUCTURE/FACILITY CLEARANCE

**REFERENCES**

SALT RIVER PROJECT  
RIGHT-OF-WAY GUIDELINES \_\_\_\_\_ WES-ROWGUIDE

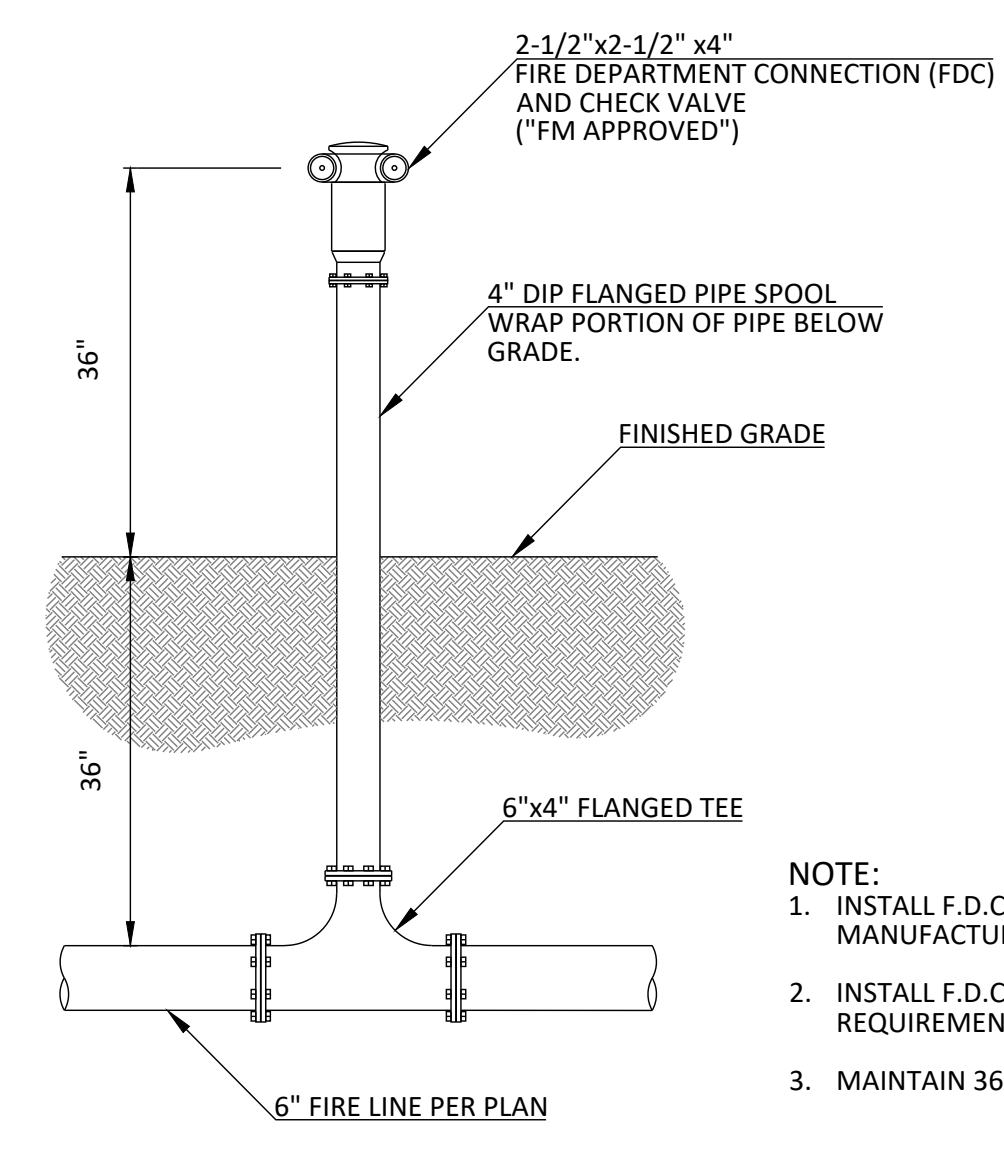
**REVISIONS**

REV NO.	DFTR	DSGN	ENGR CHK	ISSUE AUTH	DATE
REVISED DETAIL CLEARANCES AND NOTE 4. ADDED IRRIGATION CLEARANCE DETAIL.					
6	JWS	-	-	REL	12/05/18
INITIAL ISSUE.					
0	MOD	CWT	CWT	REL	04/06/98
17X22					

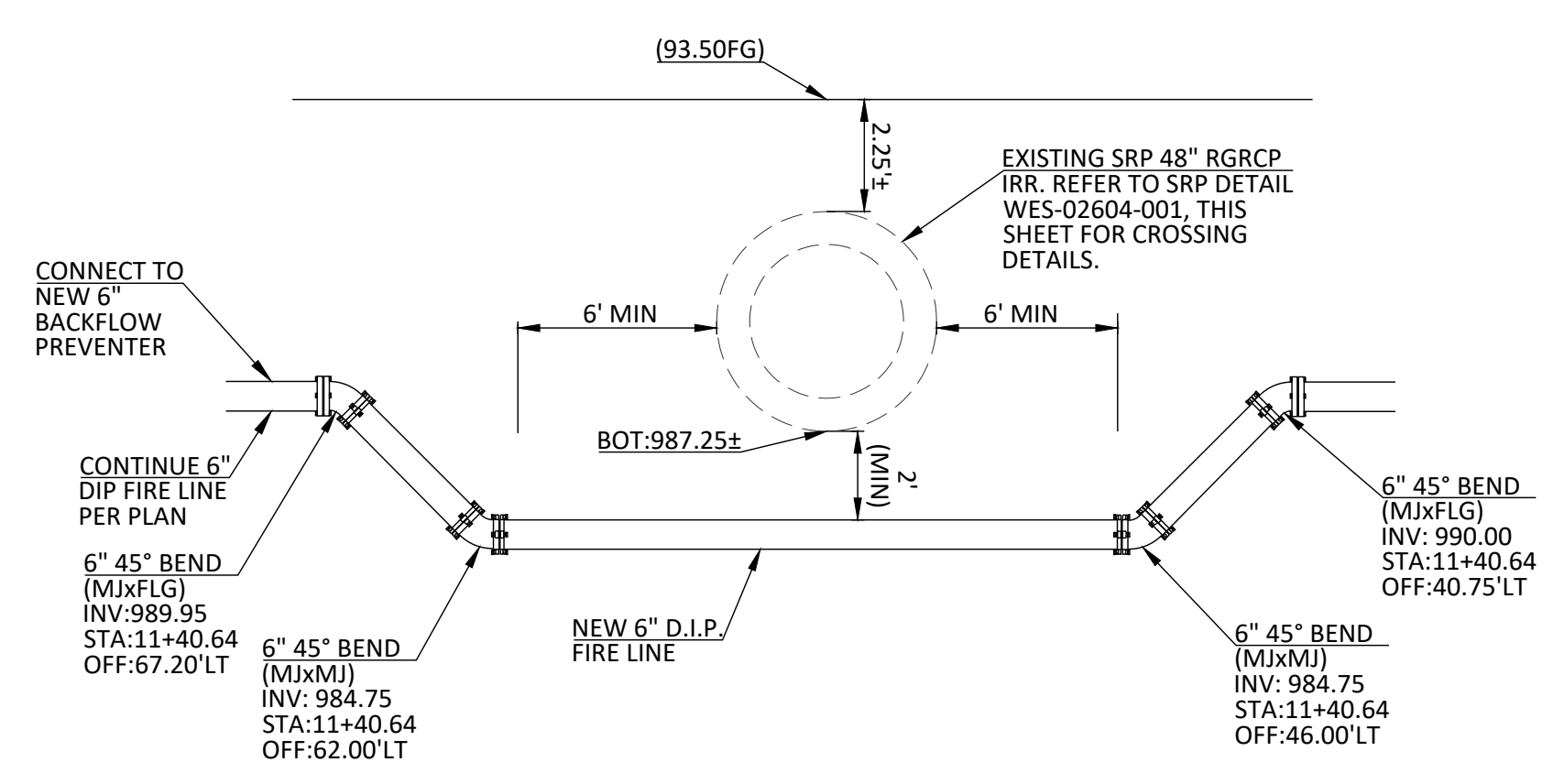
**SALT RIVER PROJECT**  
WATER ENGINEERING STANDARD

**UTILITIES CROSSING OR PARALLEL TO SRP IRRIGATION PIPE**

SCALE: NONE  
DWG. SIZE: 17X22  
02604001.WES  
**WES-02604-001**



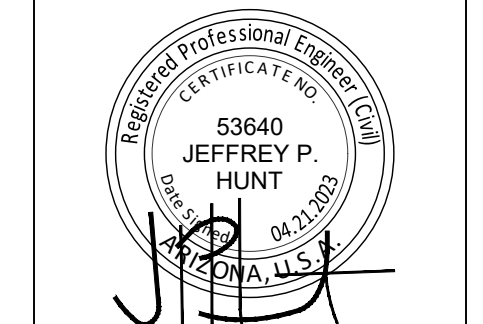
- NOTE:**
- INSTALL F.D.C. AND CHECK VALVE PER MANUFACTURERS RECOMMENDATIONS
  - INSTALL F.D.C. SIGNAGE PER FIRE CODE REQUIREMENTS.
  - MAINTAIN 36" CLEARANCE AROUND F.D.C..



- NOTE:**
- BACKFILL WITH 1/2-SACK CLSM IN ACCORDANCE WITH MAG SPEC SECTION 728.
  - ALL MECHANICAL JOINTS SHALL BE RESTRAINED USING MEGA LUG.
  - INSTALL THRUST BLOCKS AT BENDS PER MAG DETAIL 380 & 381.

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**ONSITE/OFFSITE FIRE LINE PLAN for  
HEAD START - TOLLESON**  
2504 SOUTH 91ST AVENUE PHOENIX, ARIZONA  
onsite / offsite fire line plan



DRAWN: PT  
DESIGNED: JH  
CHECKED: JH  
DATE: 04-21-2023  
JOB NO: 22.152  
SHEET NUMBER