



City of Cottonwood

Engineering Dept.

Date: 07.01.2016

Response to comments submitted in regards to City of Cottonwood, IFB 2016-PW-10.

1. *The Pre Bid meeting is not mandatory.*
2. *The bid date shall remain Friday, July 8th.*
3. What addendum is the project up to date?

Currently there have been 2 Addenda issues with this being the third. The reference to Addendum #4 in Addendum #2 was from a separate contract, but contained information pertaining to this project.

4. Can you provide the contact information for Felix Construction?

Please contact:

Jason Evahnenko

602-463-3547

jasone@felixconstruction.com

5. Does the Contractor need to provide Builders Risk Insurance for this project?

Yes

6. Will there be any plan drawings for this tank? They mention inlet piping, outlet piping and drain piping, will these just be pipe nozzle connections at the tank wall and someone else supplying the rest of the piping?

Plans are attached.

7. What type of foundation is allowed?

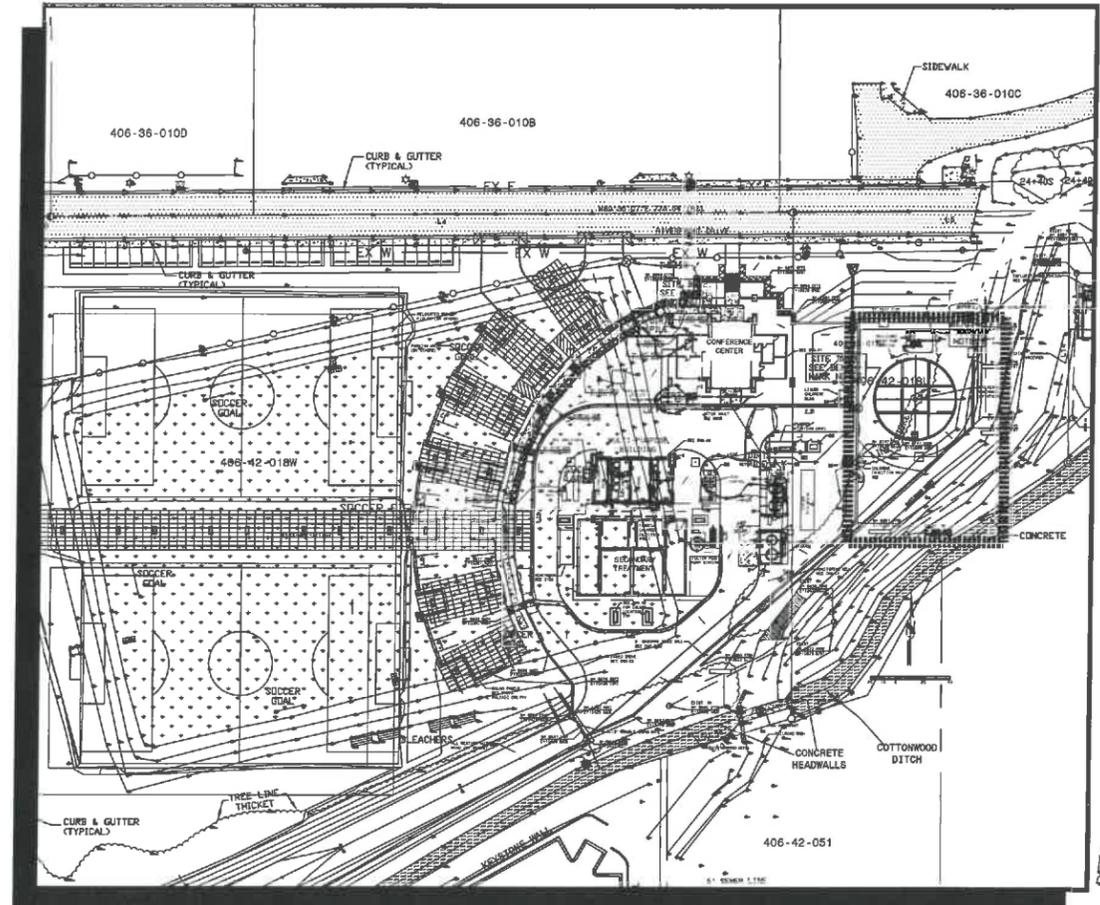
The foundation system for this reclaimed water storage reservoir shall consist of granular fill and shall include a steel retainer ring. The tank manufacturer shall provide an engineered design conforming to the project requirements.

RIVERFRONT WATER RECLAMATION FACILITY RECLAIMED WATER STORAGE RESERVOIR COTTONWOOD, ARIZONA

QUANTITIES

NOTE	ITEM	QUANTITY	UNIT
1	500,000 GALLON BOLTED STEEL TANK	1	EA
2	GRANULAR FOUNDATION AND STEEL RETAINER RING	1	LS

NOTE: THE ENGINEER DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES.



SITE MAP

SCALE: 1"=100' (APPROX.)

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BENCHMARK

THIS PROJECT UTILIZES PROJECT CONTROL ESTABLISHED FOR THE RIVERFRONT WATER RECLAMATION FACILITY, CURRENTLY UNDER CONSTRUCTION. ELEVATIONS SHOWN ARE BASED ON YAVAPAI COUNTY FLOOD CONTROL VRS 101, BEING A 3" ALUMINUM CAP SET IN CONCRETE AND STAMPED "Y.C.F.C. VRS 101 RLW 13015 2010" LOCATED ON THE WEST SIDE OF 10TH STREET SOUTH DEAD HORSE RANCH BRIDGE, ELEVATION 3308.72' (NAVD 88).

BM1 = A SCRIBED "X" IN THE NORTHERLY PORTION OF THE 5' CONCRETE RING AROUND A MANHOLE
ELEVATION = 3292.94'

BM3 = 3/8" REBAR SET WITH ALUMINUM CAP STAMPED "SITE BM 3294.00"

CONTACT INFORMATION

ENGINEER: CITY OF COTTONWOOD
1490 W MINGUS AVENUE
COTTONWOOD, AZ 86326
TEL: (928) 634-8033

CABLE: CABLE ONE
238 SOUTH 6TH STREET
COTTONWOOD, AZ 86326
TEL: (928) 634-9677

ELECTRIC: APS
1250 EAST STATE ROUTE 89A
COTTONWOOD, AZ 86326
TEL: (928) 646-8412

GAS: UNISOURCE
500 SOUTH MILLARD STREET
COTTONWOOD, AZ 86326
TEL: (928) 634-5555

SEWER: CITY OF COTTONWOOD
DEBBIE BREITKREUTZ
1480 WEST MINGUS AVENUE
COTTONWOOD, AZ 86326
TEL: (928) 643-8033

TELEPHONE: CENTURY LINK
500 SOUTH CALVARY WAY
COTTONWOOD, AZ 86326
TEL: (928) 634-7556

WATER: CITY OF COTTONWOOD
MIKE TRAYNOR
111 NORTH MAIN STREET
COTTONWOOD, AZ 86326
TEL: (928) 634-0186, EXT. 3306

LEGEND

ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CONCRETE
BFP	BACKFLOW PREVENTER
B/W	FG AT LOW SIDE OF WALL
CL	CENTER LINE
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL ARCH PIPE
C.Y.	CUBIC YARDS
DIP	DUCTILE IRON PIPE
EA	EACH
EP	EDGE OF PAVEMENT
EX	EXISTING
FG	FINISHED GRADE
FGW	FINISHED GRADE @ WALL
FL	FLOW LINE
INV	PIPE INVERT
L.F.	LINEAR FEET
L.S.	LUMP SUM
LT	STATION OFFSET LEFT
MD	MAXIMUM DRY DENSITY
MH	MANHOLE
OFF	OFFSET
P	PROPERTY LINE
ROW	RIGHT-OF-WAY
RT	STATION OFFSET RIGHT
S.F.	SQUARE FEET
STA	STATION
S.Y.	SQUARE YARDS
T/C	TOP OF CURB
T/F	TOP OF FOOTING
T/W	TOP OF WALL
⊙	EXISTING SANITARY SEWER MANHOLE
⊗	EXISTING WATER VALVE
⊕	EXISTING FIRE HYDRANT
⊖	EXISTING UTILITY POLE
⊗	EXISTING GUY POLE
⊕	EXISTING VALVE/METER BOX
⊖	EXISTING WATER METER
⊗	EXISTING GAS METER
⊕	EXISTING ELECTRIC METER
⊖	EXISTING WATER VALVE
⊗	EXISTING SEWER CLEANOUT
⊕	EXISTING SIGN & BASE
⊖	PROPERTY LINE
—S—	EXISTING SEWER MAIN
—G—	EXISTING GAS MAIN
—X—	EXISTING FENCE LINE
→	FLOW LINE OF DITCH/SWALE
+ XXX.XX	EXISTING SPOT ELEVATION
~	EXISTING GROUND CONTOUR

COVER SHEET
RIVERFRONT WRF
RECLAIMED WATER RESERVOIR
COTTONWOOD, ARIZONA



EXPIRES: 06/30/2017

Engineering Department
1490 W. Mingus Ave.
Cottonwood, AZ 86326



Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona One Stop, Inc.
Dial 8-1-1 OR 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 283-1100

GENERAL NOTES

- THE CITY OF COTTONWOOD DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES. THE CITY OF COTTONWOOD SHALL NOT BE HELD RESPONSIBLE FOR ERRORS IN ESTIMATES OF QUANTITIES, MATERIALS, SCHEDULE, INSTALLATION REQUIREMENTS, OR SIZE.
- THE CITY OF COTTONWOOD ENGINEERING DEPARTMENT, INSPECTION STAFF, SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK BY TELEPHONE AT (928) 634-8033. ANY WORK CONCEALED WITHOUT INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- AN APPROVED SET OF PLANS MUST BE AVAILABLE ON THE JOB SITE AT ALL TIMES. THE CONTRACTOR'S REPRESENTATIVE (CAPABLE OF COMMUNICATING WITH THE CITY'S REPRESENTATIVES) SHALL BE ON THE JOB AT ALL TIMES THE WORK IS BEING PURSUED.
- THE PROCEDURES AND METHODS USED TO SAMPLE, TEST MATERIALS, AND REPORT TEST RESULTS WILL BE DETERMINED BY THE CITY OF COTTONWOOD ENGINEERING DEPARTMENT. FOR ALL PHASES OF CONSTRUCTION, THE TYPE, SCHEDULING, FREQUENCY AND LOCATION OF ALL MATERIALS TESTING AND SAMPLING SHALL BE DETERMINED BY THE ENGINEERING DEPARTMENT. THE INSPECTOR SHALL SELECT TESTING LOCATIONS AND INCREASE OR DECREASE THE FREQUENCY OF THE TESTS. COSTS OF MATERIAL TESTING SHALL BE THE RESPONSIBILITY OF THE PROPERTY DEVELOPER. A THIRD PARTY TESTING LABORATORY SHALL BE USED FOR ALL MATERIAL TESTING. AS A GENERAL GUIDELINE TESTING FREQUENCY SHALL BE:
 - CONCRETE - 1 SET OF 4 CYLINDERS PER 50 CUBIC YARDS @ 3,000 PSI.
 - SUBGRADE - 1 DENSITY TEST PER 500 LINEAL FEET @ 95% COMPACTION.
 - BASE COURSE - 1 DENSITY TEST PER 500 LINEAL FEET @ 100% COMPACTION.
 - ASPHALT - 1 DENSITY TEST PER 500 LINEAL FEET IN EACH LANE. 1 EXTRACTION PER DAY OF PAVING. 1 GRADATION CHECK PER PAVING DAY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND LEGAL DISPOSAL OF ALL ITEMS SHOWN AS BEING REMOVED ON THESE PLANS.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY THE PRESENCE AND LOCATION OF ALL EXISTING OVERHEAD AND/OR UNDERGROUND UTILITIES AND IRRIGATION LINES THAT MAY INTERFERE WITH THIS CONSTRUCTION, WHETHER OR NOT SAID UTILITIES ARE SHOWN ON THE CONSTRUCTION PLANS FOR THIS PROJECT AND TO ADEQUATELY PROTECT, REPAIR AS REQUIRED, AND MAINTAIN ANY SUCH UTILITIES AND IRRIGATION LINES.
- THE CONTRACTOR SHALL ONLY USE RECLAIMED WATER FOR COMPACTION AND DUST CONTROL. RECLAIMED WATER PURCHASE IS AVAILABLE BY CONTACTING THE CITY OF COTTONWOOD UTILITIES DEPARTMENT (928) 634-0186.
- ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTION DITCHES, PIPES PROTECTIVE BERMS, CONCRETE CHANNELS OR OTHER MEASURES DESIGNED TO PROTECT IMPROVEMENTS, WHETHER EXISTING OR PROPOSED, FROM RUNOFF OR DAMAGE FROM STORM WATER, MUST BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF ANY IMPROVEMENTS.
- TRAFFIC CONTROL SHALL CONFORM WITH THE CITY OF COTTONWOOD R.O.W. PERMIT, MUTCD, AND THE CITY OF COTTONWOOD RIGHT-OF-WAY PERMIT GUIDELINES, AS APPLICABLE.
- ALL CONTRACTORS ARE RESPONSIBLE TO OBTAIN A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS, INCLUDING NOTICE OF INTENT (NOI), NOTICE OF TERMINATION, AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP). A COPY OF THE NOI AND SWPPP SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES. THIS APPLIES TO ALL SITES GREATER THAN 1.0 ACRE IN SIZE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY AND ALL OTHER PERMITS AND MEET ANY REQUIREMENTS SET FORTH BY OTHER AGENCIES OR UTILITIES, WHICH HAVE JURISDICTION, AT THE CONTRACTOR'S EXPENSE, INCLUDING OSHA.
- ALL CONTRACTORS ARE RESPONSIBLE TO CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES, IF REQUIRED, IN ORDER TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAYS OR STREETS. GRAVEL TRACK-OUT PADS SHALL MEET CURRENT M.G. STANDARDS. THE CONTRACTOR SHALL IMMEDIATELY REMOVE ANY SEDIMENT TRACKED ONTO PUBLIC RIGHTS-OF-WAYS OR STREETS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK AREAS INCLUDING STREETS & PAVED AREAS, DRAINAGEWAYS AND DRAINAGE APPURTENANCES, WORK AREA UTILITIES WHETHER BURIED AND EXPOSED, EMBANKMENTS & CUT SLOPES, AND ALL UNFINISHED WORK AREAS. THE CONTRACTOR SHALL DO WHAT IS REQUIRED SO THAT ACCESS IS NOT DENIED TO ANY PROPERTY ALONG THE PROPOSED CONSTRUCTION FOR ANY DURATION THAT WOULD INTERFERE WITH NORMAL DAILY INGRESS AND EGRESS. ALL DRIVING AREAS SHALL BE GRADED TO FINISH SURFACE FOLLOWING THE REQUIRED TRENCH FILL SPECIFICATIONS IMMEDIATELY AFTER THE INSTALLATION IS COMPLETE IN ORDER THAT ACCESS IS NOT INTERRUPTED AND THAT ACCESS IS UNINHIBITED. NO UNEVEN SURFACES SHALL BE ALLOWED THAT COULD CAUSE ACCIDENTS, VEHICLE DAMAGE, OR LIMITED ACCESS. THE CONTRACTOR SHALL DO WHAT IS REQUIRED TO ASSURE THAT NO UTILITIES ARE INTERRUPTED ALONG THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL LEAVE ALL DRAINAGEWAYS AND APPURTENANCES IN OPERATING ORDER THROUGHOUT THE CONSTRUCTION DURATION. THE CONTRACTOR SHALL ASSURE THAT ALL CUT AND FILL SLOPES ARE REPLACED AT THE PRIOR CONDITIONS OR AS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL SEE THAT ALL UNFINISHED WORK AREAS SHALL BE MAINTAINED TO ASSURE THAT OPEN TRENCHES ARE SECURE AND NOT LEFT UNATTENDED. THAT DRAINAGE IS NOT ALLOWED TO ENTER OPEN TRENCHES AND DAMAGE EXISTING AND NEW UTILITIES, AND THAT PUBLIC SAFETY IS ASSURED ALONG THE ENTIRE CONSTRUCTION ROUTE AT ALL TIMES. CONTRACTOR SHALL MEET OSHA STANDARDS FOR TRENCH SAFETY.
- PRIOR TO THE START OF ANY WORK, THE CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION AND UTILITY COORDINATION MEETING. ALL WORK, PLANS, SPECIFICATIONS, INSPECTION REQUIREMENTS, AND SCHEDULING SHALL BE DISCUSSED AT THIS MEETING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING ALL ARIZONA BLUE STAKE LAWS PRIOR TO AND DURING CONSTRUCTION BY CONTACTING THE BLUE STAKE AUTHORITY AT 1-800-STAKE-IT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE BLUE STAKE AS IS REQUIRED THROUGHOUT THE PROJECT CONSTRUCTION DURATION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE ARIZONA BLUE STAKE AUTHORITY REGULATIONS. CONTRACTOR SHALL PROVIDE THE CITY OF COTTONWOOD ENGINEERING STAFF WITH EVIDENCE OF ANY AREA BEING DISTURBED HAVING BEEN BLUE STAKED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

ENGINEERS NOTES

- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE SUFFICIENT MANPOWER, PARTS, AND EQUIPMENT ON THE JOB AT ALL TIMES DURING THE DURATION OF THE CONSTRUCTION PROJECT TO BOTH COMPLY WITH THE PROJECT SPECIFICATIONS AND ALSO ACCOMPLISH THE WORK IN A TIMELY MANNER.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE SPECIFICATIONS AS REQUIRED IN THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS OF PUBLIC WORKS CONSTRUCTION BY MARICOPA ASSOCIATION OF GOVERNMENT COMMONLY REFERRED TO AS MAG STANDARDS, CITY OF COTTONWOOD REGULATIONS OR SPECIFICATIONS, ANSI/AWWA SPECIFICATIONS, AND/OR OTHER STATE AND FEDERAL SPECIFICATIONS, AS APPLICABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE TRENCH BRACING, SHEATHING, SHORING OR SIDE SLOPES AS REQUIRED FOR THE SAFETY AND CONFORMANCE TO ALL APPLICABLE OSHA LAWS AND CONSTRUCTION STANDARDS FOR THE EXCAVATION AND TRENCHING OF THIS PROJECT. THE CONTRACTOR SHALL ASSURE THAT SUITABLE AND SAFE CONDITIONS, INCLUDING PROPER TRAFFIC AND SAFETY CONTROL, ARE MET THROUGHOUT THE PROJECT DURATION OF WORK WILL BE CEASED UNTIL SUCH TIME THAT THE UNSAFE CONDITION IS RECTIFIED. THE CITY OF COTTONWOOD SHALL NOT BE HELD IN ANY WAY RESPONSIBLE FOR ANY LOST TIME BY THE CONTRACTOR DUE TO UNSAFE CONDITIONS OR THE ENFORCEMENT OF THIS SPECIFICATION.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY OF COTTONWOOD ENGINEERING DEPARTMENT, INSPECTION STAFF, FOR APPROVAL PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE CITY OF COTTONWOOD MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN THEIR JUDGMENT, PROGRESS IS UNSATISFACTORY OR UNAUTHORIZED, THE PRODUCT IS UNSATISFACTORY, WEATHER CONDITIONS ARE UNSUITABLE OR THERE IS DANGER TO THE PUBLIC.
- THE CITY OF COTTONWOOD MAY REQUIRE THE SUBMITTAL OF A "CERTIFICATE OF COMPLIANCE" AND/OR "MANUFACTURER'S GUIDELINES" FOR ANY MATERIALS USED IN THE WORK. MANUFACTURER'S GUIDELINES SHALL CONSIST OF WRITTEN INSTRUCTIONS FOR SHIPPING, HANDLING, UNLOADING, CUTTING, JOINING, INSTALLATION, STORAGE, AND/OR ANY OTHER FACETS OF WORKING.
- SHOP DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR PER MAG SECTION 105.2.
- THE CITY OF COTTONWOOD MAY ORDER ANY MATERIALS USED IN THE WORK TO BE TESTED ACCORDING TO AASHTO AND ASTM STANDARDS. THE CONTRACTOR SHALL, AT THEIR EXPENSE, SUPPLY CERTIFICATES OR RESULTS OF TESTING.
- THE CONTRACTOR MAY SUBMIT CAREFULLY DOCUMENTED AND CONSIDERED WRITTEN PROPOSALS FOR ALTERNATE MATERIALS AND CONSTRUCTION METHODS. THOSE PROPOSALS THAT ARE FOUND TO BE IN CONFORMITY WITH GOOD ENGINEERING DESIGN AND CAN BE EASILY MAINTAINED BY CITY FORCES MAY BE GIVEN WRITTEN APPROVAL BY THE CITY ENGINEER FOR INCORPORATION IN THE CONSTRUCTION PLANS IF THEY ARE FOUND TO BE IN THE PUBLIC INTEREST.
- ALL IMPROVEMENTS SHALL BE CONSTRUCTED BY CONTRACTORS LICENSED BY THE ARIZONA STATE REGISTRAR OF CONTRACTORS, WITH A CLASS OF LICENSE(S) FOR THE SPECIFIC WORK BEING PERFORMED.
- THE CITY OF COTTONWOOD, INSPECTION STAFF, SHALL BE NOTIFIED 24 HOURS PRIOR TO BEGINNING DIFFERENT PHASES OF CONSTRUCTION SO THAT OBSERVATIONS MAY BE SCHEDULED.
- APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL WRITTEN FINAL ACCEPTANCE OF A COMPLETE WORKABLE UNIT. ACCEPTANCE OF COMPLETED IMPROVEMENTS WILL NOT BE GIVEN UNTIL DEFECTIVE OR UNAUTHORIZED WORK IS REMOVED, AND FINAL CLEAN-UP IS COMPLETE.
- THE CITY OF COTTONWOOD RESERVES THE RIGHT TO REQUEST MODIFICATIONS TO THESE PLANS DURING CONSTRUCTION IF FIELD CONDITIONS WARRANT AND THE DESIGN ENGINEER CONCURS.
- ANY DEFECTS WHICH APPEAR IN THE WORK WITHIN THE WARRANTY PERIOD GIVEN IN THE PROJECT CONTRACT FROM THE DATE OF ACCEPTANCE AND WHICH ARE DUE TO IMPROPER WORKMANSHIP OR INFERIOR MATERIALS SUPPLIED SHALL BE CORRECTED BY OR AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STREETS AND OF PARTIALLY COMPLETED PORTIONS OF THE WORK UNTIL FINAL ACCEPTANCE OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE QUALITY OF EXISTING STREETS LEADING TO THE PROJECT SITE. EXISTING STREETS FOUND TO BE DAMAGED BY CONSTRUCTION TRAFFIC SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY OF COTTONWOOD BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE CITY.
- STREETS CLOSED BECAUSE OF CONSTRUCTION SHALL BE PROVIDED WITH BARRICADES AND/OR HAZARD SIGNS AS REQUIRED AND APPROVED BY THE CITY OF COTTONWOOD ENGINEERING DEPARTMENT, INSPECTION STAFF. THE CITY OF COTTONWOOD DEPARTMENT OF PUBLIC SAFETY SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY STREET CLOSURE.
- PRIOR TO APPROVAL OF AN IMPROVEMENT PROJECT, AN "AS-BUILT" PLAN MUST BE SUBMITTED TO THE CITY OF COTTONWOOD ENGINEER. THE AS-BUILT PLAN SHALL INDICATE THE ACTUAL LOCATION OF WATER MAINS, SEWER MAINS, UNDERGROUND DRAINAGE STRUCTURES, ALL SEWER AND WATER SERVICES, ALL FITTINGS, VALVES AND MANHOLES RELATIVE TO RIGHT-OF-WAY BOUNDARIES, LOT LINE, OR OTHER POINTS OF SURVEY.
- THE ACCURACY OF ALL CONSTRUCTION WORK SHALL BE MAINTAINED AND VERIFIED BY THE CONTRACTOR'S SURVEYOR AT THE CONTRACTOR'S EXPENSE. STAKES WILL BE SET ESTABLISHING LINES AND GRADES (FINISH OR FLOWLINE) FOR ALL CONSTRUCTION INCLUDING ROADS, CURB AND GUTTER, SIDEWALKS, UTILITIES, STRUCTURES, AND OTHER WORK AS CONSIDERED NECESSARY. ALL SURVEY CONTROL SHALL BE SET BY THE CONTRACTOR'S SURVEYOR FROM MONUMENTS PER THESE APPROVED PLANS.
- A COPY OF THE A.D.E.Q. PERMITS ISSUED PRIOR TO NEW CONSTRUCTION, EXTENSION TO, OR MODIFICATION OF A WATER DISTRIBUTION SYSTEM, SEWAGE COLLECTION OR INDIVIDUAL SEWAGE TREATMENT SYSTEM SHALL BE ONSITE AT ALL TIMES.
- RELOCATION OF SIGNS, TREES SHRUBS, MAILBOXES AND OTHER INCIDENTALS REQUIRING RELOCATION SHALL BE MOVED ONLY FAR ENOUGH TO ALLOW CONSTRUCTION OF THE PROJECT AND CAUSE THE LEAST DISRUPTION TO PRIVATE PROPERTY, AND LANDSCAPE. FINAL POSITIONS SHALL BE APPROVED BY THE CITY OF COTTONWOOD PRIOR TO RELOCATION. ALL RELOCATED ITEMS SHALL CONTINUE TO WORK IN THEIR INTENDED CAPACITY AFTER THE RELOCATION HAS BEEN ACCOMPLISHED. NO SIGNS SHALL BE RELOCATED TO POSITIONS OUTSIDE DESIGNATED RIGHTS-OF-WAY. SAFETY SHALL BE A PRIMARY CONSIDERATION IN THE PLACEMENT OF SHRUBBERY AND SIGNS WHICH COULD POSSIBLY DISRUPT THE SIGHT DISTANCE OF MOTORISTS.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL FINAL GRADING IS COMPLETE AND ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEEP CLEAN OF ALL DIRT AND DEBRIS, ALL SURVEY MONUMENTS ARE INSTALLED, AND ALL VALVES, MANHOLES AND BOXES HAVE BEEN ADJUSTED TO GRADE ACCORDING TO THESE APPROVED PLANS.

RECLAIMED WATER NOTES

- ALL RECLAIMED WATER MAIN PIPING SHALL BE PURPLE PVC C-900 CLASS DR14 AS SHOWN IN THE APPROVED PLANS.
- ALL PLASTIC PIPES WILL BEAR THE SEAL BY THE NATIONAL SANITATION FOUNDATION.
- ALL FITTINGS SHALL BE DOMESTIC ONLY AND COMPLY WITH AWWA STANDARDS. ALL VALVE BOXES SHALL BE "TYLER" ONLY.
- WATERLINE AND GRADE STAKES SHALL BE SET BY A QUALIFIED ARIZONA REGISTERED LAND SURVEYOR AND/OR THEIR REPRESENTATIVE PRIOR TO CONSTRUCTION. THE QUALIFIED ARIZONA REGISTERED LAND SURVEYOR AND/OR THEIR REPRESENTATIVE SHALL VERIFY THAT THE GRADES CONFORM TO THE APPROVED CONSTRUCTION PLANS, AND PROVIDE CUT SHEETS TO THE CONTRACTOR AND CITY OF COTTONWOOD ENGINEERING DEPARTMENT, INSPECTION STAFF. AFTER INSTALLATION AND PRIOR TO THE CITY OF COTTONWOOD ENGINEERING DEPARTMENT ACCEPTANCE, THE ENGINEER OF RECORD SHALL CERTIFY THAT THE INSTALLATION CONFORMS TO THE APPROVED CONSTRUCTION PLANS.
- TRENCH EXCAVATION, BACKFILLING AND COMPACTION SHALL CONFORM TO MAG STANDARD SPECIFICATION SECTION 601 OR AS SHOWN ON THESE APPROVED PLANS.
- BEDDING AND BACKFILL FOR RECLAIMED AND NON POTABLE WATER LINES SHALL CONFORM TO THE SAME REQUIREMENTS OF THE CITY OF COTTONWOOD FOR POTABLE WATER LINE INSTALLATION.
- THE MINIMUM COVER FROM FINISH GRADE TO TOP OF PIPE FOR ALL RECLAIMED AND NON POTABLE WATERLINES WHICH ARE 12 INCHES IN DIAMETER OR LESS LOCATED IN MAJOR STREETS SHALL BE AS SPECIFIED BY THE DESIGN ENGINEER, BUT NO LESS THAN 36 INCHES UNLESS SHOWN DIFFERENTLY ON THESE APPROVED PLANS.
- THE MINIMUM COVER FROM FINISH GRADE TO TOP OF PIPE FOR RECLAIMED AND NON POTABLE WATERLINES WHICH ARE GREATER THAN 12-INCHES IN DIAMETER, LOCATED IN MAJOR STREETS SHALL BE AS SPECIFIED BY THE DESIGN ENGINEER, BUT NO LESS THAN 48 INCHES, UNLESS SHOWN DIFFERENTLY ON THESE APPROVED PLANS.
- THE MINIMUM COVER FROM FINISH GRADE TO TOP OF PIPE FOR ALL RECLAIMED AND NON POTABLE WATERLINES IN OTHER LOCATIONS SHALL BE AS SPECIFIED BY THE DESIGN ENGINEER, BUT NO LESS THAN 36-INCHES (FOR LINES LESS THAN 12-INCHES IN DIAMETER), AND NO LESS THAN 48-INCHES (FOR 12-INCH DIAMETER AND LARGER LINES), UNLESS SHOWN DIFFERENTLY ON THESE APPROVED PLANS.
- ALL STUB-OUTS SHALL HAVE A 2-INCH BRASS BALL CORP. STOP AS A BLOW-OFF, LEFT IN PLACE WITH A 2-INCH RISER, PER MAG STANDARD DETAIL 390 "A," AND SHALL BE ACCESSIBLE TO USE.
- ALL VALVES 16-INCHES AND SMALLER SHALL BE PER MAG 630 WITH RESILIENT SEAT AWWA APPROVED GATE VALVES AND SHALL OPEN BY TURNING COUNTER-CLOCKWISE.
- VALVES SHALL NOT BE LOCATED IN SIDEWALKS, GUTTERS, CURB, OR VALLEY GUTTERS, UNLESS PREAPPROVED BY THE CITY OF COTTONWOOD.
- ALL VALVE BOXES SHALL CONFORM TO MAG STANDARD DETAIL 391-1, TYPE A. ALL RECLAIMED WATER VALVE BOXES SHALL UTILIZE SQUARE COVERS WITH THE WORDS "RECLAIMED WATER" IMPRINTED ON THEM. COVERS SHALL BE PAINTED RECLAIMED WATER PURPLE UTILIZING AN ACCEPTABLE PAINT AS APPROVED BY THE CITY OF COTTONWOOD ENGINEERING DEPARTMENT.
- CONTRACTORS SHALL NOT OPERATE VALVES ON THE EXISTING CITY SYSTEM.
- TO REQUEST A WATER SYSTEM SHUT DOWN A "WATER SYSTEM SHUT DOWN REQUEST" FORM MUST BE SUBMITTED. THIS FORM SHALL BE SUBMITTED TEN DAYS IN ADVANCE OF ANY REQUESTS TO SHUT DOWN ANY LINES IN THE CITY OF COTTONWOOD'S DISTRIBUTION SYSTEM. THE FORM IS TO BE SUBMITTED THROUGH THE ENGINEERING INSPECTOR ASSIGNED TO THE PROJECT, WHO WILL IN TURN COORDINATE WITH NECESSARY UTILITY STAFF. FAILURE TO COMPLETE THIS FORM MAY RESULT IN DELAYS TO CONSTRUCTION ACTIVITIES.
- NEW RECLAIMED WATERLINES MUST MAINTAIN MINIMUM SEPARATION (BOTH VERTICAL AND HORIZONTAL) FROM POTABLE WATERLINES AND SEWER MAINS PER MAG SPECION 610.5 AND THE MAG STANDARD DETAIL 404 EXCEPT AS MODIFIED: WHEN IT COMES TO SEPARATION FROM SEWER MAINS, RECLAIMED AND NON POTABLE WATERLINES SHALL USE THE SAME REQUIREMENTS AS POTABLE WATERLINES. WHEN IT COMES TO SEPARATION FROM POTABLE WATERLINES, RECLAIMED AND NON POTABLE WATERLINES SHALL USE THE SAME REQUIREMENTS AS SEWER MAINS.
- ALL RECLAIMED WATERLINES REQUIRE THE INSTALLATION OF METALLIC LOCATING TAPE, WHICH SHALL BE INSTALLED IN ACCORDANCE WITH MAG SPEC. 616.4. THE REQUIRED COLOR FOR RECLAIMED WATER PIPELINES IS RECLAIMED WATER PURPLE.
- PRIOR TO BEING PUT INTO SERVICE, NEW RECLAIMED WATERLINES SHALL BE DISINFECTED AND TESTED PER ADEQ BULLETIN #8.
- ALL FIRE HYDRANT HOSE AND STEAMER CONNECTIONS SHALL MATCH STANDARD SIZE AND THREADS PER THE LOCAL FIRE DEPARTMENT.
- ALL ABOVE GROUND RECLAIMED WATER INFRASTRUCTURE SHALL BE RECLAIMED WATER PURPLE IN COLOR.
- ALL NEW LANDSCAPE AND TURF IRRIGATION INFRASTRUCTURE (ABOVE AND BELOW GROUND) SHALL BE RECLAIMED WATER PURPLE IN COLOR.
- THE CONTRACTOR SHALL PROVIDE A PURPLE COATED #12 COPPER TRACER WIRE SECURED TO THE BOTTOM CENTERLINE OF ALL RECLAIMED WATER LINES AND SERVICES. THE CONTRACTOR SHALL PROVIDE A LOOPED PITFALL AT ALL IN-LINE VALVE LOCATIONS. TRACER WILL BE INSPECTED FOR CONTINUITY PRIOR TO ACCEPTANCE OF THE WORK. NON-CONTINUOUS OR FAULTY WIRE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

DWG: Fullplan - C:\Users\winiecke\Desktop\102-NOTES.dwg\Plot Date: 07/10/16 02:28pm

Engineer: R. WINIECKE	Revisions:
Technician: R. WINIECKE	
Scale: NONE	
Date: 07/10/16	
Drawing No: G2	

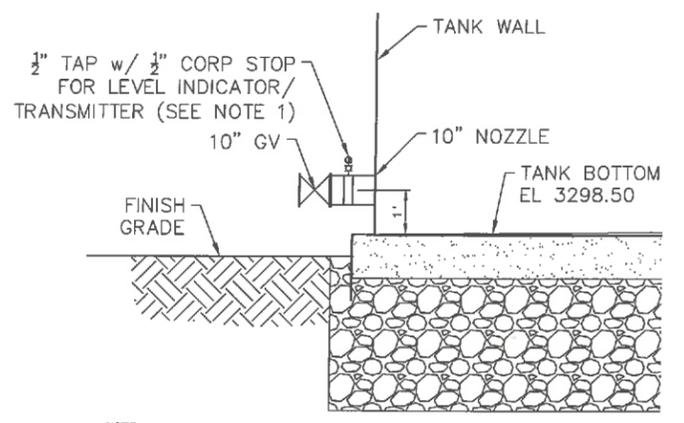
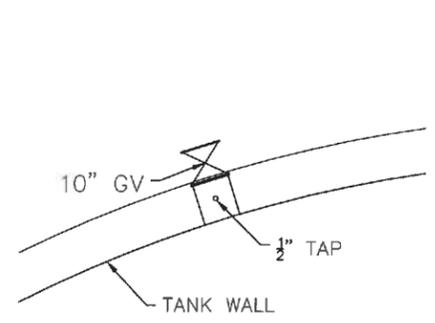
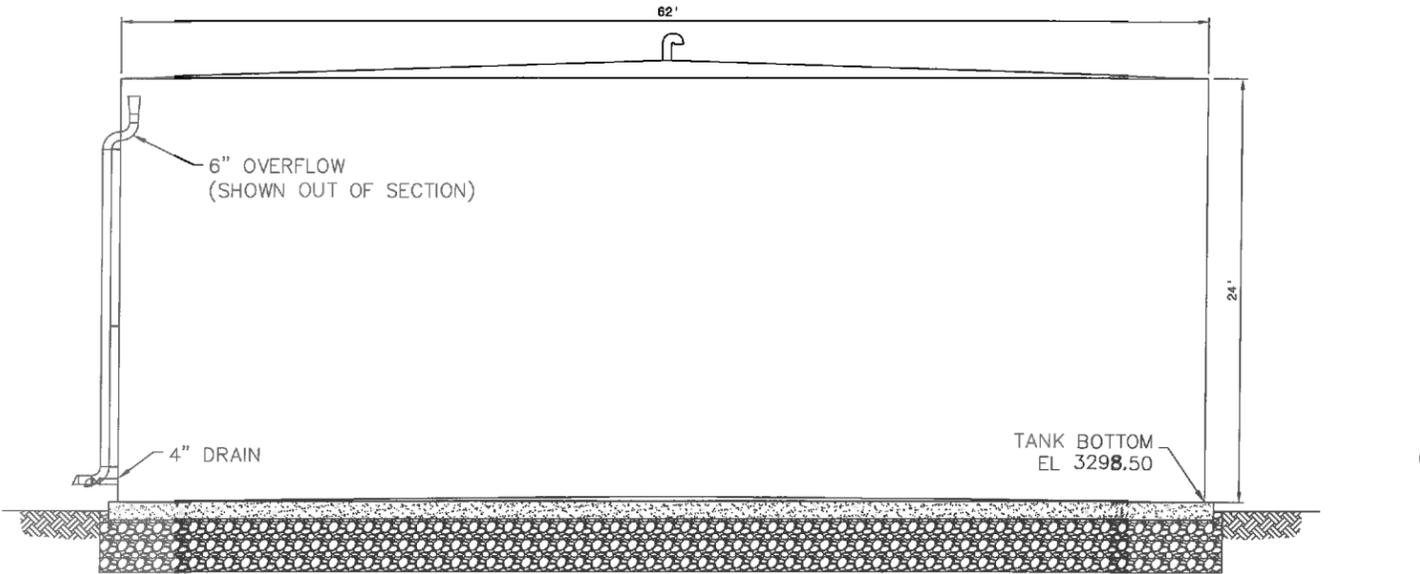
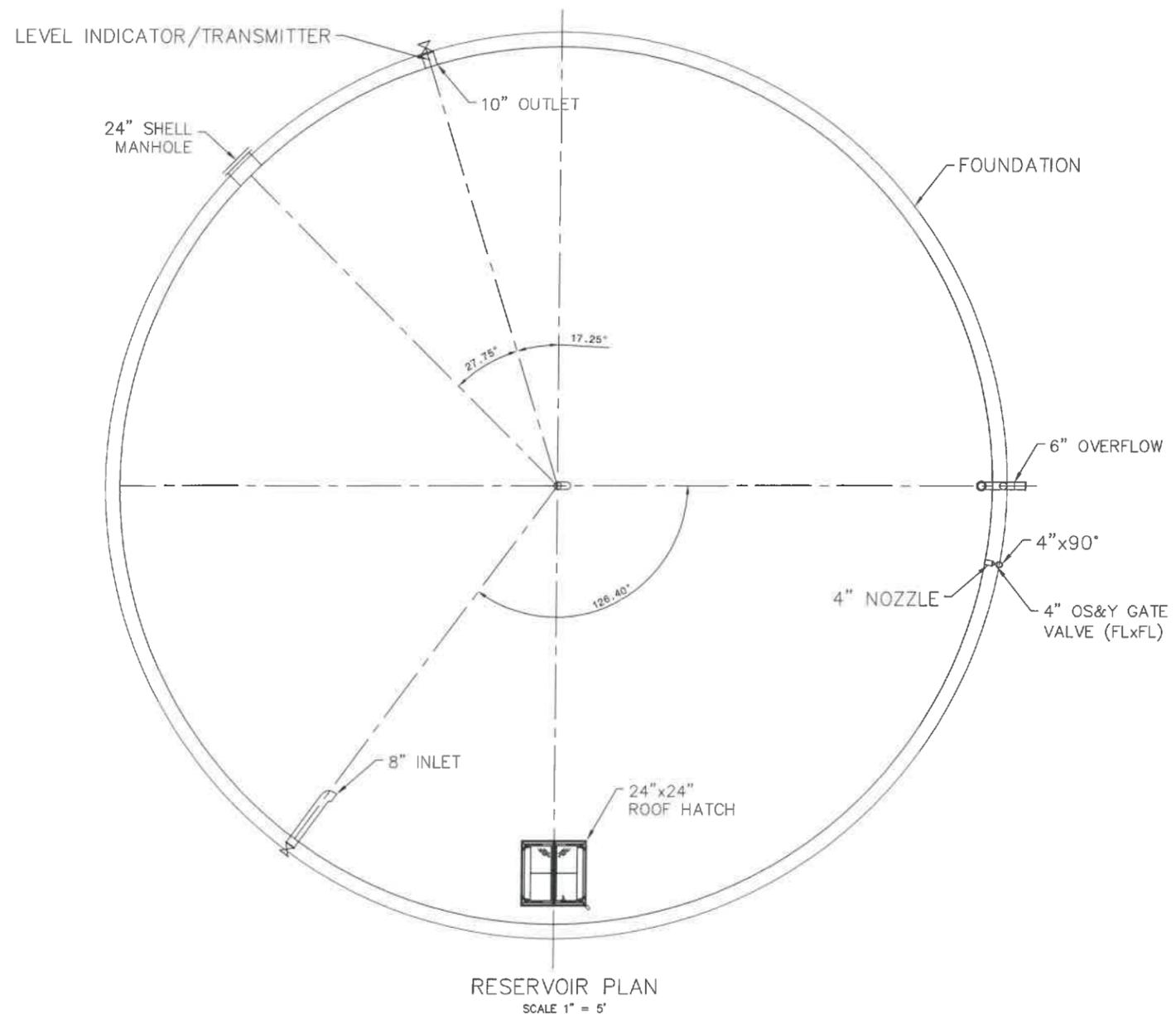
**GENERAL NOTES
RIVERFRONT WRF
RECLAIMED WATER RESERVOIR
COTTONWOOD, ARIZONA**



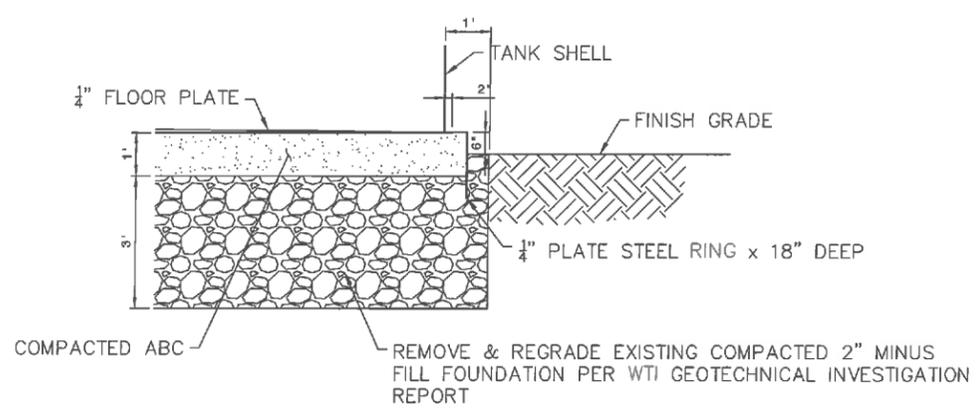
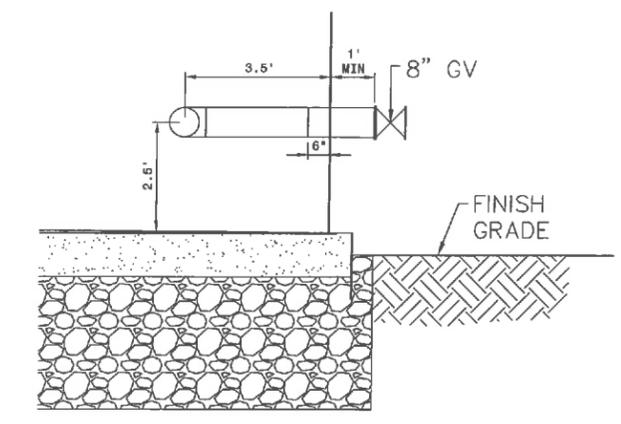
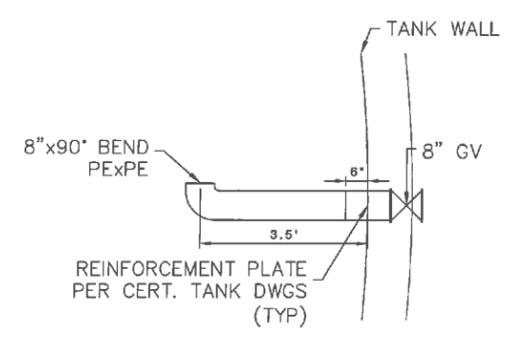
Engineering Department
1490 W. Mingus Ave.
Cottonwood, AZ 86326



Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona One Stop, Inc.
Dial 8-1-1 OR 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100



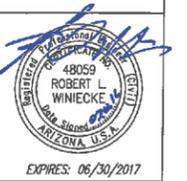
NOTE:
1. TAP SHALL BE A DOUBLE STRAP BRASS SADDLE w/ CORP STOP.



NOTES:
1. SOILS SHALL BE REMOVED AND REPLACED FROM THE FOOTPRINT AND PERIMETER RING.
2. PLACE MINIMUM OF 12-INCHES OF COMPACTED, PROCESSED 3/4 MINUS CLEAN ABC GRANULAR FILL BELOW TANK, IN ACCORDANCE WITH WTI GEOTECHNICAL INVESTIGATION REPORT.

Engineer: R. WINIECKE	Revisions:
Technician: R. WINIECKE	
Scale: NONE	
Date: 07/01/16	
Drawing No: M1	

RESERVOIR DETAILS
RIVERFRONT WRF
RECLAIMED WATER RESERVOIR
COTTONWOOD, ARIZONA



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