

RWCD GENERAL NOTES

- GENERAL CONDITIONS:
 - ALL CONSTRUCTION OF RWCD FACILITIES SHALL CONFORM TO THE LATEST RWCD SPECIFICATIONS (WWW.RWCD.ORG) AND LATEST MAG SPECIFICATIONS.
 - THE CONTRACTOR SHALL OBTAIN A PERMIT FROM RWCD BEFORE ANY WORK BEGINS THAT IMPACTS RWCD FACILITIES OR ACCESS TO RWCD FACILITIES.
 - IMPROVEMENT PLANS FOR RWCD FACILITIES SHALL NOT BE APPROVED UNTIL POT HOLE INFORMATION FOR CROSSING OR PARALLEL UTILITIES, OR OTHER CONFLICTS, IS RECEIVED, REVIEWED AND DEEMED ADEQUATE BY RWCD. POT HOLE RESULTS SHALL BE SEALED BY A LAND SURVEYOR OR CIVIL ENGINEER REGISTERED IN ARIZONA AND SHALL BE LOCATED BY PROJECT STATION AND OFFSET. EACH POT HOLE SHALL INCLUDE THE ELEVATIONS OF THE SURFACE AND THE TOP AND BOTTOM OF THE BURIED UTILITY BASED ON THE PROJECT DATUM.
 - AN APPROVED SET OF PLANS SHALL BE ON THE JOB SITE AT ALL TIMES THAT WORK IS IN PROGRESS. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT AN APPROVED PLAN REVISION FROM THE ENGINEER.
 - TRAFFIC CONTROL SHALL BE MAINTAINED WITH THE MAG SPECIFICATION 401, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND CURRENT TRAFFIC BARRICADE MANUAL.
 - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING, IF NECESSARY, AN EXCAVATION AND DIRT MOVING PERMIT FROM THE MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT AND COMPLYING WITH ITS REQUIREMENTS FOR DUST CONTROL.
 - NO ACTIVITY INVOLVING ANY RWCD MANHOLE SHALL OCCUR WITHOUT PRIOR AUTHORIZATION BY RWCD. THIS INCLUDES, BUT IS NOT LIMITED TO, REMOVING THE MANHOLE LID, RIM OR ANY DEVICE HOLDING THE MANHOLE LID OR RIM IN PLACE. CONTACT RWCD'S CONSTRUCTION INSPECTOR AT 480.267.8999 TO COORDINATE.
- LANDSCAPE NOTES:
 - TREES TO BE INSTALLED ADJACENT TO ANY RWCD FACILITY SHALL BE PLANTED NO CLOSER THAN 6' FROM THE OUTSIDE EDGE OF ROOT BALL TO THE OUTSIDE EDGE OF RWCD PIPE OR THE OUTSIDE EDGE OF ANY OTHER STRUCTURE, E.G. MANHOLE, DELIVERY STRUCTURE, ETC. RWCD RESERVES THE RIGHT TO MODIFY THIS CONDITION AT ANY TIME PER OUR DISCRETION. CONTACT RWCD'S CONSTRUCTION INSPECTOR AT 480.267.8999 TO COORDINATE.
 - NO LANDSCAPE SPRINKLERS OR WATER EMITTERS ARE PERMITTED WITHIN 15 FEET OF ANY RWCD DELIVERY STRUCTURE.
 - THE HOME OWNER'S ASSOCIATION IS RESPONSIBLE TO MAKE REPAIRS TO LANDSCAPING (INCLUDING TREES, GROUND COVER, GRASS, ETC) WHERE IT IS DAMAGED DURING REPAIRS TO RWCD PIPE OR OTHER FACILITIES.
 - LANDSCAPE BOULDERS SHALL BE KEPT 15' AWAY FROM THE OUTSIDE OF RWCD MANHOLES, TURNOUT STRUCTURES, HEADWALLS, ETC.
 - LANDSCAPE FACILITIES SHALL ADHERE TO RWCD'S UTILITY CLEARANCE REQUIREMENTS (RWCD DETAIL 41).
 - LANDSCAPE IRRIGATION MAIN LINES SHALL CONSTRUCT WITH THE MAG STANDARD DETAIL 41 AND RWCD GENERAL NOTE SECTION 5. LANDSCAPE IRRIGATION LATERALS (ZONE PIPES DOWNSTREAM OF A CONTROL VALVE) 2" AND SMALLER MAY CROSS OVER THE TOP OF AN RWCD LATERAL PIPE WITH A MINIMUM OF 1' CLEARANCE. LANDSCAPE IRRIGATION LATERAL PIPES THAT ARE OVER 2" IN SIZE, OR THAT DO NOT MEET COVER AND CLEARANCE CRITERIA, SHALL CROSS UNDER THE RWCD LATERAL PER RWCD STANDARD DETAIL 41 AND RWCD GENERAL NOTE SECTION 5.
- CONSTRUCTION SEQUENCE AND REQUIREMENTS:
 - ALL CONSTRUCTION ACTIVITIES INVOLVING THE MODIFICATIONS AND/OR REPLACEMENT OF RWCD OWNED FACILITIES SHALL BE BONDED AT A FIGURE APPROVED BY THE GENERAL MANAGER. SUCH BOND SHALL BE MADE TO THE BENEFIT OF RWCD AND WILL NOT BE RELEASED UNTIL SUCH TIMES AS THE GENERAL MANAGER OR OTHER AUTHORIZED INDIVIDUAL HAS APPROVED ALL CONSTRUCTION ACTIVITIES FOR COMPLETENESS AND CORRECTNESS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING IRRIGATION DRY-UPS. CONTACT THE RWCD WATER DEPARTMENT AT 480.988.9586 TO SCHEDULE A DRY-UP.
 - THE CONTRACTOR SHALL PROVIDE A COPY OF THE FOLLOWING TO THE RWCD INSPECTOR BEFORE THE PIPE IS INSTALLED.
 - RESULTS OF D-LOAD TEST ON 1% OF THE PIPE LENGTH FOR EACH DAY OF BATCH PRODUCTION.
 - A CONCRETE CYLINDER BREAK ON 1% OF THE PIPE LENGTH FOR EACH DAY OF BATCH PRODUCTION.
 - THE DATE OF PIPE MANUFACTURE AND CLASS OF PIPE SHALL APPEAR ON EVERY LENGTH OF PIPE DELIVERED TO THE JOBSITE. ALL PIPE SHALL HAVE A MINIMUM 14 DAYS OF CURE TIME BEFORE INSTALLATION.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES PRIOR TO EXCAVATION AND AVOID DAMAGE TO SAME. CALL 811 OR 602.263.1100 FOR BLUE STAKE TWO WORKING DAYS PRIOR TO DIGGING. IF AN UNIDENTIFIED UTILITY IS ENCOUNTERED DURING ALL CONSTRUCTION ACTIVITIES SHALL CEASE UNTIL THE UTILITY IS POTHOLED TO VERIFY RWCD CLEARANCE REQUIREMENTS ARE MET AND A PLAN TO RESOLVE CLEARANCE DEFICIENCIES, SUBMITTED BY THE CONTRACTOR, IS ACCEPTED BY RWCD.
 - THE CONTRACTOR SHALL ENSURE NO CONSTRUCTION DEBRIS IS ALLOWED TO ENTER ANY RWCD DITCH OR FACILITY DURING CONSTRUCTION.
 - WHEN RELOCATING AN EXISTING RWCD FACILITY, REMOVAL OF THE EXISTING FACILITY SHALL OCCUR ONLY DURING AN RWCD AUTHORIZED DRY-UP AND/OR AFTER THE NEW FACILITY IS OPERATIONAL.
 - RWCD STRUCTURES ARE TO BE POURED MONOLITHICALLY. SHOULD IT BE NECESSARY TO CONSTRUCT AN RWCD STRUCTURE USING MULTIPLE CONCRETE POURS, THE CONTRACTOR WILL BE REQUIRED TO USE AN RWCD APPROVED METHOD OF WATER STOP ON EACH STRUCTURE THAT IS TO BE CONSTRUCTED USING MULTIPLE CONCRETE POURS. CONTACT RWCD'S CONSTRUCTION INSPECTOR AT 480.267.8999 TO COORDINATE.
 - GRINDING AND/OR PATCHING OF NEW DELIVERY STRUCTURES, MANHOLES, HEADWALLS, AND RADIAL GATE STRUCTURES OR ANY CONCRETE STRUCTURE TO CORRECT DEFICIENCIES THAT RESULT FROM IMPROPER GRADE SETTING, OR CONSTRUCTION METHODS, OR BREAKAGE DUE TO ANY CIRCUMSTANCES SHALL NOT BE PERMITTED.
 - THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING RWCD FACILITY (HEADWALL, PIPE, DITCH, ACCESS ROADS, ETC.) DAMAGED DURING CONSTRUCTION AS DIRECTED BY THE RWCD INSPECTOR. THE REPAIRED FACILITY SHALL BE AT THE LOCATION, ELEVATION AND GRADES PRIOR TO CONSTRUCTION OR AS DIRECTED BY THE RWCD INSPECTOR.
 - RWCD MANHOLES ARE TO BE IDENTIFIED AND PROTECTED AT ALL TIMES BEFORE, DURING AND AFTER CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO INSTALL, AT A MINIMUM, TWO (2) 2X4s VERTICALLY ON OPPOSITE SIDES OF EACH MANHOLE TO PROVIDE IDENTIFICATION OF THE MANHOLE. CONTACT RWCD'S CONSTRUCTION INSPECTOR AT 480.267.8999 TO COORDINATE.
- TRENCH EXCAVATION:
 - TRENCH EXCAVATION, BACKFILLING AND COMPACTION FOR RWCD FACILITIES SHALL BE PER MAG SPEC SECTION 601, OR AS MODIFIED ON THE PLAN. BACKFILLING SHALL NOT BEGIN ON ANY PIPE UNTIL THE LINE HAS BEEN APPROVED BY RWCD'S INSPECTOR. BACKFILLING SHALL CONSIST OF ABC PLACED IN LIFT DEPTHS PER MAG SPEC 601.4.2. ALL OTHER LIFTS SHALL BE A MAX OF TWO (2) FEET. ABC BACKFILL SHALL EXTEND TO TWELVE (12) INCHES ABOVE THE TOP OF THE PIPE. COMPACTION OF THE BEDDING MATERIAL SHALL BE PER MAG SPEC 601.4.5. THE TRENCH BACKFILL SHALL BE THOROUGHLY COMPACTED TO THE DENSITIES LISTED ON THE PLAN OR AS SPECIFIED IN MAG SPEC 601.4.4, WHICHEVER IS MORE STRINGENT. MECHANICAL COMPACTION FROM THE BOTTOM OF THE TRENCH TO 1" ABOVE THE PIPE SHALL BE ACCOMPLISHED BY HAND OR WALK BEHIND EQUIPMENT SUCH AS WALKER OR JUMPING JACK STYLE COMPACTOR OR OTHER AS APPROVED BY THE RWCD INSPECTOR. CONTRACTOR MAY SUBSTITUTE 1/2 SACK CLSM PER MAG SPEC SECTION 604 FOR BACKFILL UP TO SPRINGLINE. THE RWCD INSPECTOR MAY REQUIRE THE USE OF VIBRATORY EQUIPMENT IN CONJUNCTION WITH THE PLACEMENT OF CLSM MATERIAL.
 - COMPACTION TESTS SHALL BE PERFORMED AT ALL STRUCTURES AND AT A MINIMUM OF EVERY 300 FEET ALONG THE PIPE AND AT LOCATIONS SPECIFIED BY THE RWCD INSPECTOR. A RESPONSIBLE PARTY FOR COMPACTION TESTING SHALL BE PRESENT DURING BACKFILLING OF ALL RWCD FACILITIES (INSTALLATIONS AND REMOVALS). COPIES OF THE COMPACTION TESTS ARE TO BE SUBMITTED TO THE RWCD INSPECTOR AT THE CONCLUSION OF EACH DAY.
- UTILITY CROSSINGS:
 - CALL THE RWCD INSPECTOR AT 480.267.8999 PRIOR TO MAKING THE UTILITY CROSSING. A PERMIT MAY BE REQUIRED FOR UTILITY THAT CROSSES THE RWCD FACILITY.
 - UTILITIES CROSSING RWCD SHALL MEET THE CLEARANCES SHOWN IN RWCD STANDARD DETAIL 41.
 - WET UTILITIES (IE, WATER, SEWER, ETC.) CROSSING THE NEW RWCD IRRIGATION PIPE SHALL BE CONSTRUCTED PRIOR TO THE RWCD IRRIGATION PIPE.
 - THERE SHALL BE NO JOINTS IN THE WET UTILITY LINES FOR A DISTANCE OF 8' EITHER SIDE OF THE CENTER OF THE RWCD IRRIGATION PIPE.
 - WET UTILITIES SHALL BE BACKFILLED WITH ½ SACK SLURRY FROM THE UTILITY LINE UP TO 6" BELOW THE RWCD IRRIGATION PIPE FOR 7' EITHER SIDE OF THE CENTERLINE OF THE RWCD PIPE.
 - WHERE PROPOSED WET UTILITY LINES WILL CROSS AN EXISTING RWCD PIPE LATERAL, THE WET UTILITIES SHALL BE INSTALLED VIA HORIZONTAL EARTH AUGER BORE IN A STEEL CASING PIPE, OR IF THE RWCD PIPE IS PLANNED TO BE REMOVED, THE WET UTILITIES SHALL BE INSTALLED AFTER THE NEW RWCD FACILITY IS OPERATIONAL AND THE OLD RWCD PIPE IS REMOVED. A PROFILE OF THE CROSSING SHALL BE PROVIDED AND THE TOP OF CASING PIPE AND OUTSIDE DIAMETER OF THE RWCD IRRIGATION PIPE ELEVATIONS SHALL BE SHOWN ON THE PLANS AND MEET THE CLEARANCES SHOWN IN RWCD DETAIL 41.
 - WHERE PROPOSED WET UTILITY LINES WILL CROSS AN EXISTING RWCD OPEN DITCH LATERAL AND LATERAL WILL BE RELOCATED WITH THE CURRENT PROJECT, THE CONTRACTOR MAY REQUEST A DRY-UP FROM RWCD TO CROSS VIA OPEN CUT. IF A DRY-UP IS NOT AVAILABLE OR IF THE OPEN DITCH LATERAL IS NOT BEING RELOCATED WITH THE CURRENT PROJECT THEN THE PROPOSED WET UTILITY SHALL BE INSTALLED VIA A HORIZONTAL EARTH AUGER BORE IN A STEEL CASING PIPE. A PROFILE OF THE CROSSING SHALL BE PROVIDED AND THE TOP OF CASING PIPE AND OUTSIDE DIAMETER OF THE RWCD IRRIGATION PIPE ELEVATIONS SHALL BE SHOWN ON THE PLANS AND MEET THE CLEARANCES SHOWN IN RWCD DETAIL 41.
 - DRY UTILITIES MAY BE INSTALLED VIA OPEN CUT TRENCH ACROSS A PROPOSED RWCD LATERAL, IF INSTALLED BEFORE THE RWCD FACILITY IS CONSTRUCTED. IF A DRY UTILITY WILL CROSS AN EXISTING RWCD PIPE OR DITCH THAT WILL REMAIN, THE DRY UTILITY SHALL BE INSTALLED VIA A BORE. BORE PITS SHALL BE LOCATED OUTSIDE ANY RWCD PROPERTY AND SHALL BE LOCATED A SUFFICIENT DISTANCE AWAY FROM THE RWCD FACILITY SUCH THAT THE RWCD FACILITY IS NOT COMPROMISED DURING EXCAVATION OR BORING.
 - IF ANY EXISTING UTILITY IS FOUND TO HAVE LESS THAN 2 FT OF CLEARANCE TO THE RWCD FACILITIES, THE CONTRACTOR SHALL CONSULT WITH THE RWCD INSPECTOR AND THE OTHER UTILITY COMPANY FOR EVALUATION OF CLEARANCE AND RELOCATION REQUIREMENTS.
 - UTILITY CROSSINGS AT THE RWCD MAIN CANAL, EXTENSION CANAL OR DRAIN DITCH SHALL BE INSTALLED BY HORIZONTAL EARTH AUGER BORE. NO BORE PITS SHALL BE ALLOWED WITHIN RWCD PROPERTY. ALL UTILITIES SHALL BE ENCASED IN A STEEL CASING. NO UTILITIES SHALL VARY FROM UTILITY CROSSING REQUIREMENTS WITHOUT WRITTEN APPROVAL FROM RWCD. ALL OVERHEAD WIRES THAT SUSPEND OVER THE RWCD RIGHT OF WAY SHALL HAVE 25 FEET MINIMUM OVERHEAD CLEARANCE.
- RWCD INSPECTION:
 - CALL THE RWCD INSPECTOR AT 480.267.8999 FOR RWCD INSPECTIONS. THE CONTRACTOR SHALL COORDINATE DAILY WITH THE RWCD INSPECTOR RELATIVE TO WORK ONGOING THAT DAY AND UPCOMING WORK THAT REQUIRES INSPECTION WITHIN THE NEXT 48 HOURS.
 - THE CONTRACTOR SHALL PROVIDE A SAFE TRENCH FOR THE RWCD INSPECTOR TO INSPECT WORK INCLUDING SHORING AND LADDERS.
 - CONSTRUCTION STAKING LATH SHALL INCLUDE STATIONING CONSISTENT WITH STATIONING SHOWN ON THE APPROVED IRRIGATION PLANS.
 - MANHOLE AND STRUCTURE RIM ELEVATIONS MUST BE VERIFIED DURING THE CONSTRUCTION BY A "HUB" PLACED BY SURVEYORS.
 - RWCD MAY REJECT ANY PART OR PORTION OF THE SUBJECT PIPE AT ANY POINT DURING THE INSTALLATION PROCESS AT ITS SOLE DISCRETION. SUCH DETERMINATION WILL BE BASED ON, AMONG OTHER POINTS, CURRENT ASTM STANDARDS FOR THE PIPE.
- PROJECT ACCEPTANCE:
 - THE JOB SITE, AT THE COMPLETION OF THE CONSTRUCTION, SHALL BE CLEANED OF ANY DEBRIS OR SPOIL RESULTING FROM THE CONSTRUCTION INCLUDING REMOVAL OF CONSTRUCTION DEBRIS FROM RWCD DITCHES.
 - THE OWNER/DEVELOPER SHALL ACQUIRE PRIOR AUTHORIZATION FROM THE RWCD WATER DEPARTMENT AND RWCD INSPECTOR PRIOR TO PERFORMING ANY AS-BUILT SURVEY. MANHOLE LIDS MUST BE TAKEN OFF BY PIPELINE CONTRACTOR. A NO-FEE DRY-UP IS REQUIRED FOR AS-BUILT SURVEY.
 - THE OWNER/DEVELOPER SHALL PROVIDE CERTIFIED AS-BUILTS FOR THE LOCATION, ELEVATION AND SIZE OF ALL RWCD FACILITIES FOR RWCD RECORDS PRIOR TO RELEASING THE PROJECT BOND.
- RWCD GENERAL NOTES:
 - RWCD'S GENERAL NOTES ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION AT ANY TIME PER OUR DISCRETION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE CONFORMANCE TO THE LATEST RWCD GENERAL NOTES. CONTACT RWCD'S CONSTRUCTION INSPECTOR AT 480.267.8999 TO RECEIVE THE MOST RECENT RWCD GENERAL NOTES.

CITY OF MESA GENERAL NOTES

- ALL WORK AND MATERIALS SHALL CONFORM TO THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS FURNISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS AND AS AMENDED BY THE CITY OF MESA. ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THESE AMENDED SPECIFICATIONS AND DETAILS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- SEPARATE RIGHT-OF-WAY PERMITS ARE REQUIRED FOR ALL PUBLIC UTILITIES, PUBLIC STREET IMPROVEMENTS, AND RIGHT-OF-WAY LANDSCAPING. FOR INFORMATION REGARDING AVAILABILITY AND COST OF RIGHT-OF-WAY PERMITS, CONTACT THE DEVELOPMENT SERVICES DEPARTMENT AT (480) 644-4273 OR AT HTTP://WWW.MESAZZ.GOV/DEVSUSTAIN/CONSTRUCTIONPERMITS.ASPX. THE CONTRACTOR SHALL BE MAINTAINED WITH THE MAG SPECIFICATION 401, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND CURRENT TRAFFIC BARRICADE MANUAL. CONTRACTORS MUST HOLD THE APPROPRIATE CLASS OF LICENSE AND SHALL HAVE ON FILE WITH THE PERMIT SERVICES SECTION PROOF OF INSURANCE COVERAGE. PERMITS BECOME INVALID AND MUST BE UPDATED IF WORK HAS NOT BEGUN WITHIN NINETY (90) DAYS. PERMITS ALSO BECOME INVALID IF THE CONTRACTOR'S INSURANCE LAPSES OR IS VOIDED.
- TWENTY FOUR (24) HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK, CONSTRUCTION OR INSTALLATIONS ASSOCIATED WITH THIS PERMIT, THE PERMITTEE SHALL NOTIFY CITY OF MESA ENGINEERING DEPARTMENT AT (480) 644-2251 OF INTENT TO BEGIN AND REQUEST/SCHEDULE PRELIMINARY FIELD REVIEW AT THE PROJECT SITE WITH THE CITY OF MESA ENGINEERING DEPARTMENT CONSTRUCTION INSPECTOR (CITY INSPECTOR). FAILURE TO PROVIDE PROPER INSPECTION NOTIFICATION AS PRESCRIBED SHALL RESULT IN THIS PERMIT BECOMING INVALID AND WORK BEING STOPPED.
- CONTRACTOR'S SHALL COMPLY WITH THE REQUIREMENTS TO OBTAIN THE NECESSARY RIGHT-OF-WAY PERMITS AND SHALL COMPLY WITH THE RIGHT-OF-WAY PERMIT CONDITIONS AS FOUND ON THE BACK OF THE PERMIT FORM.
- THE CITY OF MESA PUBLIC RIGHT-OF-WAY IS NOT REPRESENTED BY BLUE STAKE. WHEN THE CONTRACTOR EXCAVATES NEAR OR ADJACENT TO A CITY PARK, THE CONTRACTOR SHALL CONTACT THE PARKS & RECREATION ADMINISTRATION SECTION AT (480) 644-2354 TO REQUEST ASSISTANCE IN LOCATING ALL THEIR UNDERGROUND FACILITIES.
- THE CONTRACTOR SHALL OBTAIN AN EARTH-MOVING PERMIT FROM THE MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT AND SHALL COMPLY WITH ITS REQUIREMENTS FOR DUST CONTROL.
- THE ENGINEER HEREBY CERTIFIES AS EVIDENCED BY A PROFESSIONAL SEAL & SIGNATURE, THAT ALL AFFECTED UTILITY COMPANIES BOTH PUBLIC AND PRIVATE HAVE BEEN CONTACTED AND ALL EXISTING AND/OR PROPOSED UTILITY LINES AND OTHER RELATED INFORMATION HAVE BEEN TRANSFERRED ONTO THESE PLANS. THE ENGINEER OR ARCHITECT ALSO HEREBY CERTIFIES THAT ALL EXISTING AND/OR PROPOSED PUBLIC RIGHT-OF-WAY AND EASEMENTS HAVE BEEN CORRECTLY PLOTTED/SHOWN.
- THE ENGINEER, OR LAND SURVEYOR OF RECORD SHALL CERTIFY UPON COMPLETION OF CONSTRUCTION THAT ALL PUBLIC IMPROVEMENTS (WATER AND SEWER UTILITIES, STORM SEWER, CONCRETE, PAVING, STREET LIGHTS, ETC.) HAVE BEEN INSTALLED AT THE LOCATIONS AND ELEVATIONS SHOWN ON THE APPROVED PLANS, ANY CHANGES SHALL BE REFLECTED ON "AS-BUILT" DRAWINGS PROVIDED BY THE ENGINEER TO THE CITY'S ENGINEERING DEPARTMENT.
- THE REGISTERED ENGINEER OR LAND SURVEYOR SHALL CERTIFY THAT THE MINIMUM HORIZONTAL AND VERTICAL SEPARATIONS BETWEEN UTILITIES WITHIN PUBLIC RIGHT-OF-WAY AND EASEMENTS HAVE BEEN MAINTAINED AS REQUIRED BY LAW OR POLICY.
- THE DEVELOPER SHALL PROVIDE ALL CONSTRUCTION STAKING FOR THE PROJECT.
- THE DEVELOPER OR THE ENGINEER IS RESPONSIBLE FOR ARRANGING FOR THE RELOCATION OR REMOVAL OF ALL UTILITIES OR FACILITIES THAT ARE IN CONFLICT WITH THE PROPOSED PUBLIC IMPROVEMENTS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF ALL UTILITIES, POWER POLES, IRRIGATION DRY-UPS, RESETS REMOVALS BY OTHERS, ETC.
- THE CONTRACTORS SHALL LOCATE ALL UTILITIES PRIOR TO EXCAVATION AND AVOID DAMAGE TO SAME. CALL (602) 263-1100 FOR BLUE STAKE TWO WORKING DAYS PRIOR TO DIGGING. CALL SALT RIVER PROJECT FOR POLE BRACING, ELECTRIC SERVICE OR CONSTRUCTION SCHEDULING AT (602) 273-8888.
- WHEN GAS MAINS AND/OR SERVICES ARE EXPOSED, CONTACT THE CITY OF MESA AT (480) 644-2261 FOR INSPECTION OF THE EXPOSED PIPE AND COATING PRIOR TO BACKFILLING OF THE TRENCH.
- CONTRACTORS SHALL COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AND BARRICADING PER THE CURRENT CITY OF MESA TRAFFIC BARRICADE MANUAL.
- IF A FIRE HYDRANT IS NEEDED TO OBTAIN CONSTRUCTION WATER, THE CONTRACTOR SHALL OBTAIN A FIRE HYDRANT METER FROM PERMIT SERVICES AND PAY ALL APPLICABLE FEES AND CHARGES.
- IF DURING THE CONSTRUCTION OF A PUBLIC FACILITY, THE CONTRACTOR FAILS TO OR IS UNABLE TO COMPLY WITH A REQUEST OF THE CITY INSPECTOR, AND IT IS NECESSARY FOR CITY FOR WORK THAT IS NORMALLY THE CONTRACTOR'S RESPONSIBILITY, THE CITY SHALL BE JUSTIFIED IN BILLING THE CONTRACTOR. EACH INCIDENT REQUIRING WORK BY CITY FORCES SHALL BE COVERED BY A SEPARATE BILLING AT THE CURRENT APPLICABLE RATES.
- THE CONTRACTOR IS ADVISED THAT DAMAGE TO PUBLIC SERVICES OR SYSTEMS AS RESULT OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AND INSPECTED BY THE CITY IN ACCORDANCE WITH THE CITY OF MESA APPROVED BY THE CITY. ALL REPAIRS SHALL BE DONE WITHIN 24 HOURS. THE CONTRACTOR IS ADVISED THAT ANY COSTS RELATED TO REPAIR OR REPLACEMENT OF DAMAGED PUBLIC SERVICES AND SYSTEMS AS A RESULT OF CONTRACTOR'S ACTIVITIES SHALL BE BORNE BY THE CONTRACTOR.

CITY OF MESA PUBLIC STREET/RIGHT-OF-WAY IMPROVEMENTS NOTES

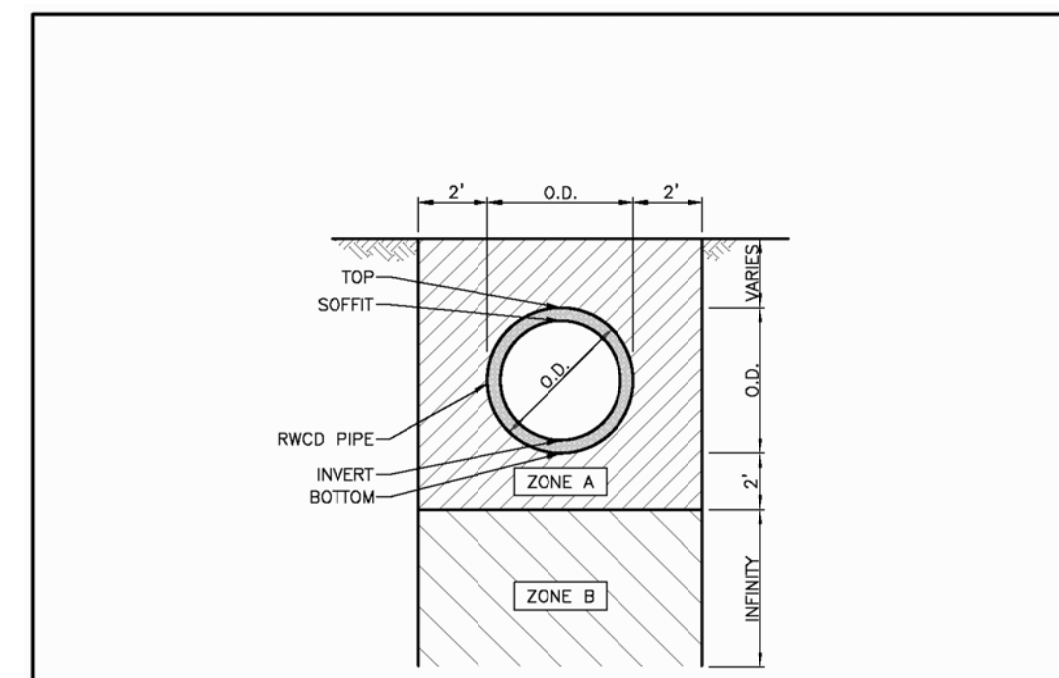
- THE DEVELOPER AND THE CONTRACTOR ARE REQUIRED TO COORDINATE THE PLACEMENT OR INSTALLATION OF DRIVEWAYS IN ORDER TO AVOID CONFLICT WITH UTILITY SERVICES.
- ALL FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC., SHALL BE INSTALLED TO FINISH GRADE OR SHALL BE ADJUSTED TO FINISH GRADE AFTER PLACING OF ASPHALTIC SURFACE COURSE BY THE CONTRACTOR PER M.A.G. STANDARD DETAIL 270 AND 422.
- THE CONTRACTOR SHALL ADJUST ALL FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC. THAT ARE LOCATED WITHIN THE PARKWAY AREA AFTER FINAL GRADING AND INSTALLATION OF LANDSCAPING.
- ALL LANDSCAPING IMPROVEMENTS, INCLUDING IRRIGATION SYSTEMS WITHIN THE PUBLIC RIGHT-OF-WAY OR RETENTION BASINS THAT ARE TO BE MAINTAINED BY THE CITY OF MESA, SHALL BE IN ACCORDANCE WITH THE LANDSCAPING AND IRRIGATION STANDARDS BOOK.
- THE STREET PAVING PERMITEE/CONTRACTOR IS HEREBY NOTIFIED THAT IN THE EVENT THAT ACCEPTANCE OF THE PUBLIC STREET PAVING IS DELAYED; SIX MONTHS OR MORE AFTER THE PAVEMENT WAS INSTALLED, THE PERMITEE/CONTRACTOR SHALL APPLY A SEAL COAT TO THE PAVEMENT. TYPE OF MATERIAL AND RATE OF APPLICATION WILL BE DIRECTED BY THE CITY OF MESA ENGINEERING DEPARTMENT FIELD SUPERVISING ENGINEER.
- A STANDARD RESIDENTIAL DRIVEWAY APPROACH SHALL BE CONSTRUCTED TO A MAXIMUM WIDTH OF 30 FEET UNLESS SPECIAL APPROVAL HAS BEEN OBTAINED.

CITY OF MESA PUBLIC WATER UTILITY NOTES

- ALL PUBLIC WATER MAIN MATERIALS SHALL BE PER SECTION 610.3 OF THE M.A.G. UNIFORM STANDARD SPECIFICATIONS. ALL DUCTILE IRON PIPE (D.I.P.) WATER MAINS SHALL HAVE POLYETHYLENE CORROSION PROTECTION PER SECTION 610.5 OF THE M.A.G. UNIFORM STANDARD SPECIFICATIONS.
- ALL NEW WATERLINES THAT REQUIRE SERVICE DISRUPTION IN ORDER TO CONNECT TO THE CITY SYSTEM SHALL REQUIRE A DAYTIME TIE-IN. THE CONTRACTOR SHALL COMPLETE ALL WORK NECESSARY TO RESTORE UTILITY SERVICE AND FULLY OPEN THE TIE-IN AREA TO VEHICULAR TRAFFIC WITHIN THE TIME FRAME ALLOWED BY THE CITY OF MESA ENGINEERING DEPARTMENT INSTRUCTION.
- THE CONTRACTOR SHALL INSTALL A TEMPORARY PLUG OR VALVE ON A SECTION OF NEW WATER LINE TO TEST LINES BEFORE CONNECTING TO THE EXISTING PUBLIC WATER SYSTEM WHERE THERE IS NO WATER VALVE ON THE EXISTING LINE.
- WATER LINE TESTS SHALL BE CONDUCTED SO THAT EXISTING WATER LINES WILL NOT BE INCLUDED IN THE TEST OF THE NEW LINE.
- THE REQUIRED BACKFLOW PREVENTION ASSEMBLY SHALL BE A MANUFACTURER AND MODEL DESIGNATED IN THE CURRENT "LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES" AS PUBLISHED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH, UNIVERSITY OF SOUTHERN CALIFORNIA.
- THE BACKFLOW PREVENTION ASSEMBLY SHALL BE TESTED AND APPROVED BY A CERTIFIED TECHNICIAN DESIGNATED IN THE CURRENT CITY OF MESA "LIST OF APPROVED INSPECTORS" PRIOR TO THE REQUEST FOR FINAL INSPECTION.
- IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODE (A.A.C.) R18-4-119, ALL MATERIALS ADDED AFTER JANUARY 1, 1993, WHICH MAY COME INTO CONTACT WITH DRINKING WATER, SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.
- PER CITY ORDINANCE NO. 2341, ALL WATER METERS ARE TO BE PURCHASED FROM THE CITY OF MESA. METERS TWO INCHES OR LESS WILL BE DELIVERED AND INSTALLED BY CITY FORCES. METERS LARGER THAN TWO INCHES WILL BE DELIVERED BY THE CITY AND INSTALLED BY THE CONTRACTOR AND REQUIRE SCHEDULING AND INSPECTIONS WITH CITY FORCES (CONTACT DEVELOPMENT SERVICES DEPARTMENT AT 480-644-4273 FOR THE SPECIFIC PROCEDURE).

GRAVITY ENERGY

A PORTION OF THE NORTHWEST QUARTER OF SECTION 8, TOWNSHIP 1 NORTH, RANGE 6 EAST, OF THE G.&S.R.B.&M., MARICOPA COUNTY, ARIZONA



UTILITY CLEARANCE REQUIREMENTS

NTS

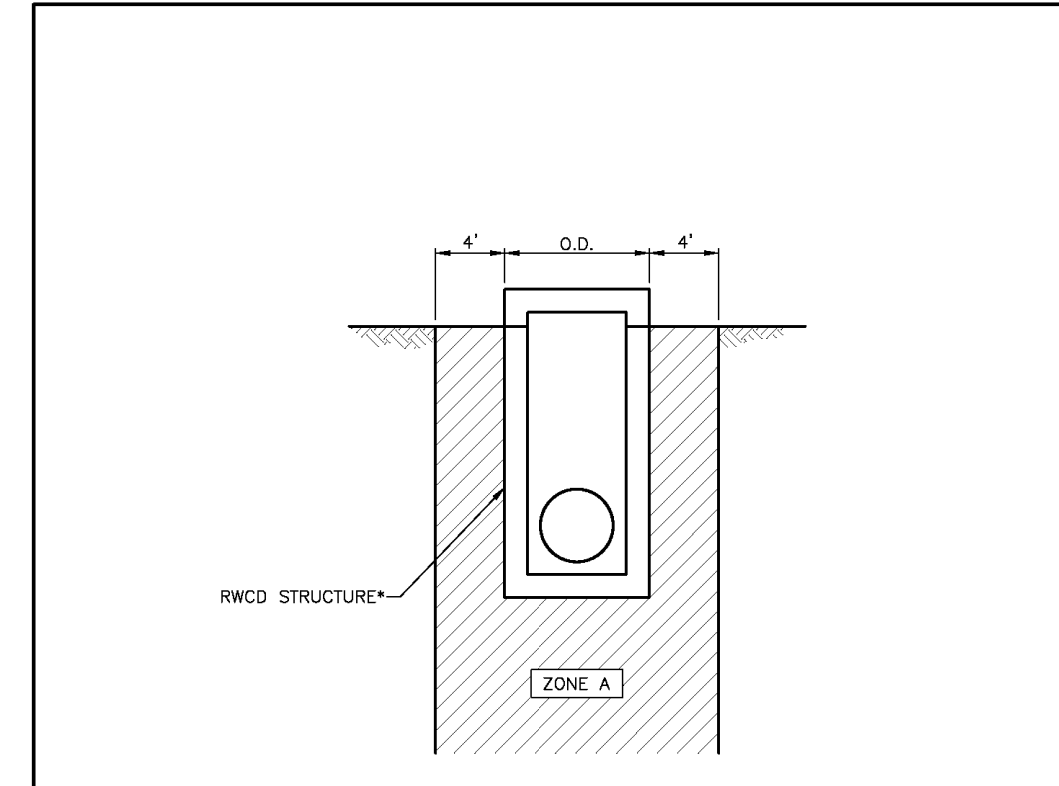
NOTES:
 ZONE A: NO UTILITIES* PERMITTED WITHIN THIS ZONE.
 ZONE B: NO LONGITUDINAL UTILITIES PERMITTED WITHIN THIS ZONE. CROSSING UTILITIES PERMITTED WITH CROSSING PERMIT ISSUED BY RWCD. CONTACT RWCD INSPECTOR AT 480.267.8999 FOR CROSSING PERMIT.
 D.O. = OUTSIDE DIAMETER OF THE BARREL OF THE PIPE.
 CLEARANCE SHALL ACCOUNT FOR PIPE THICKNESS.

PIPE SIZE (IN)	PIPE THICKNESS (IN)
30"	4.5"
36"	5"
42"	5.5"

*UTILITIES INCLUDE ANY WATER LINE, SEWER LINE, RECLAIMED WATER LINE, GAS LINE, ELECTRICAL LINE, LANDSCAPE IRRIGATION LINE, COMMUNICATIONS LINE, ETC.

LAST UPDATED: 01/30/19

Roosevelt Water Conservation District		
UTILITY CLEARANCE REQUIREMENTS		
SHEET 1 OF 3	MINIMUM REQUIREMENTS AND NOTES	RWCD-41



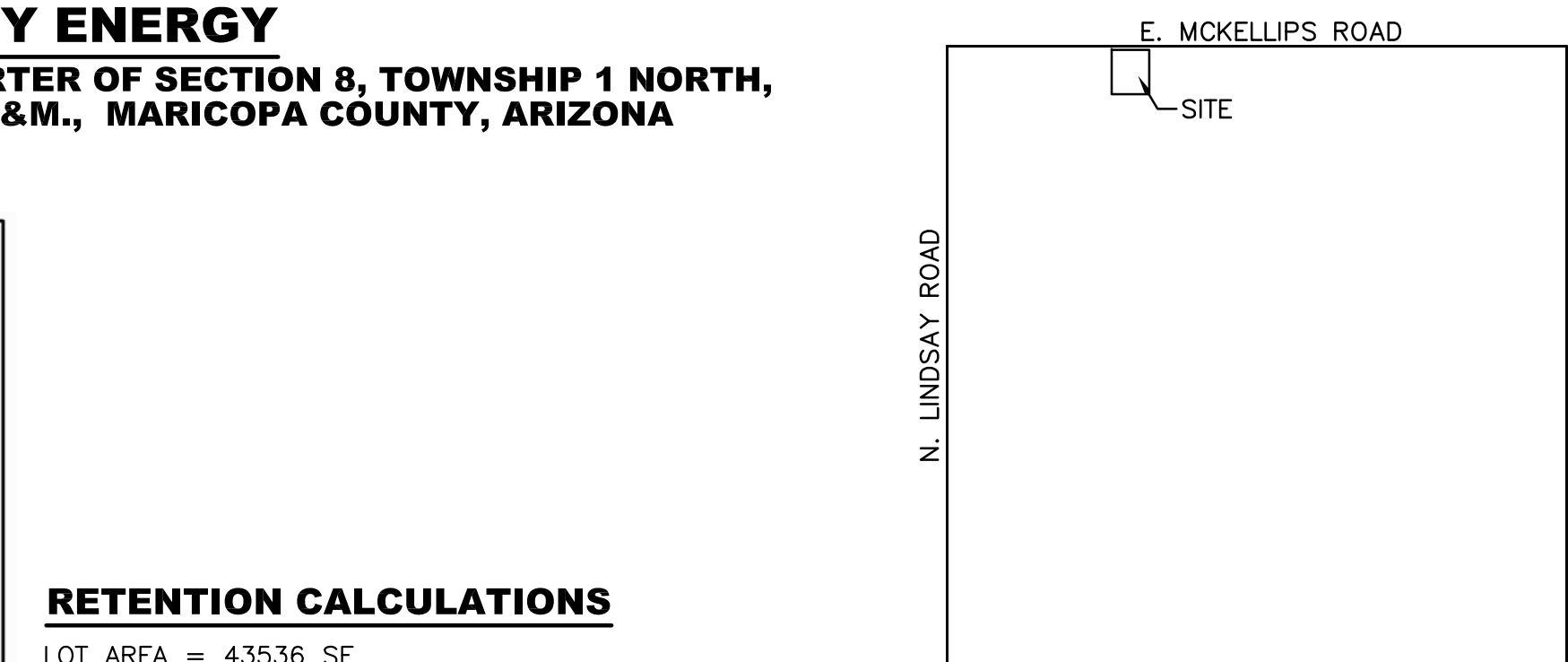
UTILITY CLEARANCE REQUIREMENTS

NTS

NOTES:
 ZONE A: NO UTILITIES PERMITTED WITHIN THIS ZONE.
 *RWCD STRUCTURE IS DEFINED AS A TURNOUT STRUCTURE, MANHOLE, HEADWALL, ETC.

LAST UPDATED: 03/06/2013

Roosevelt Water Conservation District		
UTILITY CLEARANCE REQUIREMENTS		
SHEET 2 OF 3	MINIMUM REQUIREMENTS AND NOTES	RWCD-41



RETENTION CALCULATIONS

LOT AREA = 43536 SF
 AREA ROOF/CONCRETE/PAVEMENT = 30645 SF
 DESERT LANDSCAPING = 12891 SF
 VOLUME REQUIRED = (30645(0.95) + 12891(0.50)) * (2.15"/12) = 6371 CF
 VOLUME PROVIDED = (13627 SF + 5235 SF)*1' = 9431 CF
 2

FIRE NOTES

- STRUCTURE CONSTRUCTION, ALTERATION OR DEMOLITION SHALL COMPLY WITH IFC CHAPTER 14 AND NFPA 241.
- VERTICAL CONSTRUCTION WITH COMBUSTIBLE MATERIALS SHALL NOT BEGIN PRIOR TO ACCEPTANCE OF FIRE ACCESS ROADS AND FIRE HYDRANTS.

CITY PUBLIC WASTEWATER UTILITY NOTES

- CONTRACTORS SHALL VERIFY ALL INVERT ELEVATIONS BEFORE PROCEEDING WITH THE BALANCE OF THE UTILITY TRENCHING.
- ALL MANHOLES PER M.A.G. DETAILS MUST NECK DOWN TO USE THE STANDARD 36-INCH FRAME AND COVER. STEPS SHALL NOT BE INSTALLED WITHIN THE MANHOLE.

LEGAL DESCRIPTION

LEGAL PER DOCUMENT 2022-0046437, RECORDS OF MARICOPA COUNTY, ARIZONA

OWNER

MCKELLIPS LINDSAY EQUITIES LLC
 4360 E. BROWN RD #106
 MESA, AZ 85205

BENCHMARK

BRASS TAG TOP OF CURB AT THE NORTHEAST CORNER OF LINDSAY AND MCKELLIPS
 ELEVATION=1302.73 (CITY OF MESA DATUM)

SITE DATA

APN 141-14-001R
 ZONING: NC
 NET AREA = 43536 SF

ARCHITECT

ARCHICON
 5055 E. WASHINGTON ST
 SUITE 200
 PHOENIX, AZ 85034
 PHONE: 602-222-4266
 DEBRAS@ARCHICON.COM

SHEET INDEX

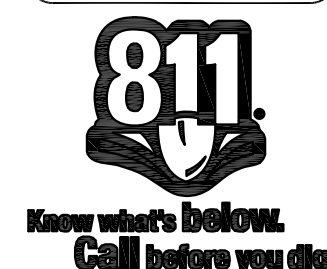
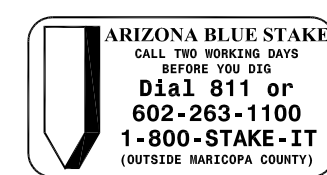
COVER 1
 PRELIMINARY IMPROVEMENT PLANS 2

APPROVALS

ROOSEVELT WATER CONSERVATION DISTRICT

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION, PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES; THE SATISFACTORY PERFORMANCE OF HIS WORK. THE DISTRICT'S REVIEW OF THE PLANS IS A VOLUNTARY AND DISCRETIONARY ACTION WHICH IS NOT MANDATED BY STATE STATUTE. THE DISTRICT'S REVIEW OF THE PLANS IS SOLELY FOR THE DISTRICT'S BENEFIT, CONDUCTED WITH ONLY THE DISTRICT'S INTEREST IN MIND, AND SHOULD NOT BE RELIED UPON BY ANY THIRD PARTY. BY REVIEWING THE PLANS THE DISTRICT DOES NOT ASSUME ANY DUTY TO THIRD PARTIES.

ENGINEER: _____ DATE: _____
 RWCD: _____ DATE: _____



GRAVITY ENERGY PRELIMINARY IMPROVEMENT PLANS MESA, AZ	DATE	
	REVISION	
	JOB NUMBER	22-123
	DRAWING	CVR22123
	DATE	11-15-22
	SHEET	1 OF 2

GarnerGroup
 engineering
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 2064 E. NORROBT ST. MESA, AZ 85213

