# CITY OF MESA GENERAL NOTES:

1. 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.

2. 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.MESAAZ.GOV/DEVSUSTAIN/CONSTRUCTIONPERMITS.ASPX. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED UNLESS OTHERWISE NOTED. 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.

3. 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 ABOVE SHALL RESULT IN THIS PERMIT BECOMING INVALID AND WORK BEING STOPPED.

4. 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.

5. THE CITY OF MESA PARKS & RECREATION DIVISION 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.

6. THE CONTRACTOR SHALL OBTAIN AN EARTH-MOVING PERMIT FROM THE MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT AND SHALL COMPLY WITH ITS REQUIREMENTS FOR DUST CONTROL.

7. 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

8. 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.

9. 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

10. THE DEVELOPER SHALL PROVIDE ALL CONSTRUCTION STAKING FOR THE

11. 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.

12. 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.

13. 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.

14. CONTRACTORS SHALL COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AND BARRICADING PER THE CURRENT CITY OF MESA TRAFFIC BARRICADE MANUAL. 15. 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.

16. 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 FORCES TO DO 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.

17. THE CONTRACTOR IS ADVISED THAT DAMAGE TO PUBLIC SERVICES OR SYSTEMS AS A RESULT OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AND INSPECTED BY THE CITY INSPECTOR, UNLESS OTHERWISE 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 NOTES:

THE APPLICANT HEREBY REPRESENTS THAT THESE CONSTRUCTION DOCUMENTS COMPLY WITH ALL ZONING APPROVALS, DESIGN REVIEW BOARD APPROVALS, BUILDING AND ENGINEERING STANDARDS AND ALL APPLICABLE REQUIREMENTS OF THE CITY OF MESA CODE. THE APPLICANT ACKNOWLEDGES AND AGREES ANY DEVIATION FROM OR FAILURE TO COMPLY WITH THE REQUIREMENT OF ANY SUCH APPROVAL OF STANDARD WILL RESULT IN ADDITIONAL PENALTIES AND/OR ENFORCEMENT ACTIONS AS APPROVALS OF THE CONSTRUCTION DOCUMENTS SHALL NOT IMPLY APPROVALS OF ANY DEVIATION FROM THE PLANS APPROVED AND STIPULATED BY DESIGN REVIEW BOARD, AND CITY COUNCIL, OR FORM BUILDING AND ENGINEERING STANDARDS.

VERTICAL CONSTRUCTION WITH COMBUSTIBLE MATERIAL SHALL NOT BEGIN PRIOR TO ACCEPTANCE OF FIRE ACCESS ROADS AND FIRE HYDRANTS, IFC 501.4

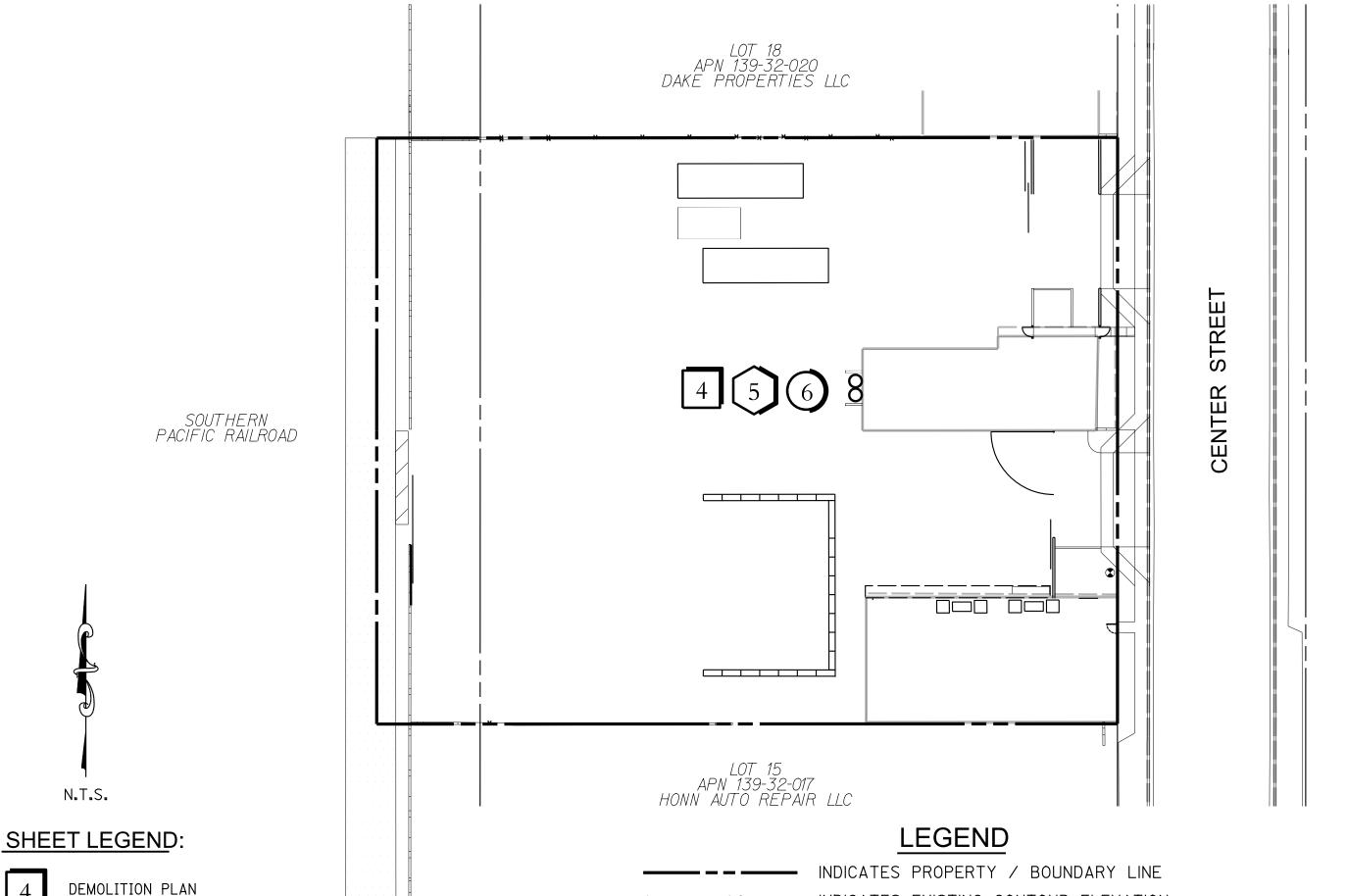
STRUCTURE CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL COMPLY WITH REQUIREMENTS OF IFC CHAPTER 14 AND NFPA 241. IFC 1401.1

# GRADING AND DRAINAGE PLAN

# ARIZONA MESA RECYCLE

# MARICOPA COUNTY, ARIZONA

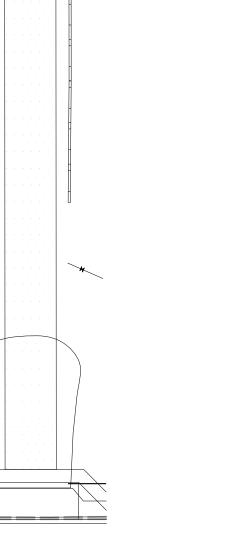
LOCATED IN A PORTION OF THE SOUTH HALF OF THE SOUTHEAST QUARTER OF SECTION 27. TOWNSHIP 1 NORTH. RANGE 5 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA



GRADING & DRAINAGE PLAN SHEET



STORM DRAIN & UNDERGROUND RETENTION PLAN SHEET



SOUTHERN AVENUE

INDICATES EXISTING PAVEMENT ELEVATION C:15.25 INDICATES EXISTING CONCRETE ELEVATION 15.0 INDICATES PROPOSED GROUND ELEVATION <u>1%</u> INDICATES DIRECTION OF FLOW & SLOPE TC= INDICATES PROPOSED TOP OF CURB & GUTTER ELEV. G= C= (52.21)FG

PAD=

IPXEB□ BWV ∞

INDICATES PROPOSED PAVEMENT ELEVATION INDICATES PROPOSED TOP OF CONC. ELEVATION INDICATES PROPOSED GRADE BREAK INDICATES TOP OF CURB ELEVATION FINISHED GRADE INDICATES PROPOSED FINISHED FLOOR ELEVATION INDICATES PROPOSED PAD ELEVATION INDICATES PROPOSED CATCH BASIN INDICATES PROPOSED DRYWELL INDICATES EXISTING LIGHT POLE INDICATES EXISTING ELECTRIC TRANSFORMER INDICATES EXISTING ELECTRIC BOX INDICATES EXISTING WATER METER INDICATES EXISTING BACKFLOW PREVENTER VALVE INDICATES EXISTING BURIED TELEPHONE CONDUIT INDICATES EXISTING BURIED ELECTRIC CONDUIT

1190 INDICATES EXISTING CONTOUR ELEVATION

92 — INDICATES PROPOSED CONTOUR ELEVATION

INDICATES EXISTING SPOT ELEVATION

INDICATES EXISTING TOP OF CURB & GUTTER ELEV.

INDICATES EXISTING FIRE HYDRANT INDICATES EXISTING SEWER LINE & SIZE

> INDICATES REQUIRED D/W LOCATION FLOWLINE

BROADWAY ROAD 8TH **AVENUE** 

SOUTHERN AVENUE

# VICINITY MAP

3 ENGINEERING

PHONE: (602) 334-4387

ENGINEER/SURVEYOR:

6370 E. THOMAS ROAD, SUITE 200 SCOTTSDALE, ARIZONA 85251

CONTACT: MATTHEW J. MANCINI, P.E.

PROJECT DESCRIPTION:

INDUSTRIAL SITE FOR NEW RECYCLING FACILITY, PROJECT WILL

EMAIL: MATT@3ENGINEERING.COM

REHABILITATION OF EXISTING

DEMO PORTIONS OF EXISTING BUILDING, AND SITE IMPROVEMENTS.

OWNER: SA RECYCLING CONTACT: ROBIN ROBINSON EMAIL: RROBINSON@SARECYCLING.COM PHONE: (714) 412-7526

APN NUMBER: APN 139-32-018 & APN 139-32-019

(NOTE: LOT COMBINATION SUBMITTED IN CONJUNCTION WITH PLANS) AREA: 139-32-018

139-32-019 21,127 SF = 0.485 ACRE

21,127 SF = 0.485 ACRE

**ADDRESS:** 1124 & 1134 S. CENTER STREET MESA AZ 85210

BENCHMARK: MESA CITY BENCHMARK, P.K. NAIL WITH BRASS TAG T.C.

CITY OF MESA BENCHMARK CONC. NAIL WITH WASHER TOP OF CURB NORTHWEST CORNER BASELINE AND MESA ROADS

EL=1213.48 NAVD '88

BASIS OF BEARING: THE MONUMENT OF CENTER STREET PER BOOK 150 OF MAPS, PAGE 41, M.C.R.

BEARS 00°00'20"W **LEGAL DESCRIPTION:** 

LOT 16 AND 17. OF MESA SPUR. ACCORDING TO THE PLAT RECORDED IN BOOK 105 OF MAPS, PAGE 41 M.C.R.

# AS-BUILT CERTIFICATION:

I CERTIFY, BASED ON FIELD VERIFICATION, THAT THIS SET OF AS-BUILT PLANS ACCURATELY REFLECTS THE CONDITIONS AS THEY EXIST ON THE PROPERTY, I FURTHER CERTIFY AS FOLLOWS:

- A.) THAT THE DEVELOPMENT HAS BEEN CONSTRUCTED SUBSTANTIALLY IN ACCORDANCE WITH THE APPROVED GRADING AND DRAINAGE PLANS AND THE IMPROVEMENTS PLANS.
- B.) THAT THE DRAINAGE SYSTEM SHALL FUNCTION AS DESIGNED AND
- C.) BASED ON TESTING DATA FOR THIS PROJECT, THE RETENTION SYSTEM WILL FUNCTION AS DESIGNED TO DRAIN WITHIN 36 HOURS PER MARICOPA COUNTY REQUIREMENTS.

DATE

NAME

INDEX OF SHEETS SHEET NO. DESCRIPTION GD01 COVER SHEET GD02 NOTES GD03 DETAILS DEMOLITION PLAN GRADING & DRAINAGE PLAN

# **EARTHWORK**:

UNDERGROUND RETENTION PLAN

FOR ESTIMATING ONLY. ENGINEER MAKES NO GUARANTEE OF ACCURACY. NO SHRINK OR SWELL IS ASSUMED.

ARTHWORK QUANTITIES				
SCRIPTION	QTY.	UNIT		
CUT (RAW)	100	C.Y.		
FILL (RAW)	10	C.Y.		

Call 811 or click Arizona811.com

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EXPIRES: 12/31/2024

3 ENGINEERING, LLC SCOTTSDALE, ARIZONA 852 PHONE: (602) 334-4387 FAX: (602) 490-3230

WWW.3ENGINEERING.COM DATE: 11/22/24

PROJECT NO. 5326

GD01 1 of 6

#### CITY OF MESA PUBLIC STREET/RIGHT-OF-WAY **IMPROVEMENT NOTES:**

- THE DEVELOPER AND THE CONTRACTOR ARE REQUIRED TO COORDINATE THE PLACEMENT OR INSTALLATION OF DRIVEWAYS IN ORDER TO AVOID CONFLICT WITH UTILITY SERVICES.
- 2. 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.
- 3. THE CONTRACTOR SHALL ADJUST ALL FRAMES, COVERS, VALVE BOXES, MANHOLES, ETC. THAT ARE LOCATED WITHIN THE PARKWAY AREA AFTER FINAL GRADING AND INSTALLATION OF
- 4. 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 BOOKLET.
- . THE STREET PAVING PERMITTEE/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 PERMITTEE/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.
- 6. 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:

- 1. 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
- 2. 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 INSPECTOR.
- 3. 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.
- 4. WATER LINE TESTS SHALL BE CONDUCTED SO THAT EXISTING WATER LINES WILL NOT BE INCLUDED IN THE TEST OF THE NEW LINE.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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 THE DEVELOPMENT SERVICES DEPARTMENT AT 480-644-4273 FOR THE SPECIFIC PROCEDURE).

#### WATER NOTES:

- PRESSURE TESTING OF WATER LINES SHALL BE IN ACCORDANCE WITH AWWA C600 OR MAG STANDARD 610-15.
- ALL NEW ELEMENTS OF A DISTRIBUTION SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH EB 8 OR AWWA C651. (MAG 610.16 & 611)

# CITY OF MESA PUBLIC WASTEWATER UTILITY NOTES:

- CONTRACTORS SHALL VERIFY ALL INVERT ELEVATIONS BEFORE PROCEEDING WITH THE BALANCE OF THE UTILITY TRENCHING.
- 2. ALL MANHOLES PER M.A.G. DETAILS MUST NECK DOWN TO USE THE STANDARD 30-INCH FRAME AND COVER. STEPS SHALL NOT BE INSTALLED WITHIN THE MANHOLE.

# CITY OF MESA NATURAL GAS UTILITY NOTES:

- ALL WORK AND MATERIALS SHALL CONFORM TO THE MOST CURRENT CITY OF MESA GAS OPERATIONS, MAINTENANCE, EMERGENCY RESPONSE AND CONSTRUCTION PRACTICE MANUAL.
- 2. 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
- BEDDING OR SHADING MATERIAL ADJACENT TO THE CITY OF MESA GAS PIPE SHALL BE SELECT SANDY TYPE SOIL FREE OF ROCK AND DEBRIS THAT WILL PASS THROUGH A 3/8" SCREEN AS INSPECTED AND APPROVED BY CITY GAS INSPECTION PERSONNEL.
- 4. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AS INDICATED ON THE CITY OF MESA DETAIL M-58 WHEN TRENCHING FOR THE WATERLINE WHERE A GAS MAIN IS TO BE INSTALLED IN THE SAME TRENCH.
- CONTACT CITY OF MESA GAS DIVISION AT 480-644-2753 FOR SCHEDULING AND COORDINATION OF THE INSTALLATION OF NATURAL GAS SERVICES AND MAINS.
- 6. GAS LINE SHALL MAINTAIN A NOMINAL 12" (MINIMUM OF 8") SEPARATION FROM EXISTING WATER, SEWER, ELECTRICAL, CABLE TV AND TELCO FACILITIES.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL EXISTING UTILITIES AND AVOIDING DAMAGE TO SAME, CALL (602) 263-1100 FOR BLUE STAKE SERVICES, OUTSIDE MARICOPA COUNTY CALL 1-800-STAKEIT.
- 8. ALL GAS NOTES IN DASHED BOXES ARE TO BE COMPLETED BY CITY OF MESA CREWS OR CITY OF MESA GAS LINE CONTRACTOR.

# CITY OF MESA NON-CITY UTILITY NOTES:

EL PASO NATURAL GAS:

- 1. THE CONTRACTOR SHALL NOTIFY EL PASO NATURAL GAS (602) 967-1686 48 HOURS PRIOR TO COMMENCING CONSTRUCTION IN THE VICINITY OF EL PASO NATURAL GAS RIGHT-OF-WAY. MARICOPA COUNTY:
- 1. ALL CONSTRUCTION WITHIN MARICOPA COUNTY RIGHT-OF-WAY SHALL CONFORM TO CURRENT MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION STANDARD PROVISIONS FOR CONSTRUCTION OF STREET IMPROVEMENTS AND INSTALLATION OF UNDERGROUND UTILITIES.
- 2. CONTRACTORS ARE TO OBTAIN ALL NECESSARY MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION PERMITS PRIOR TO CONSTRUCTION WITHIN MARICOPA COUNTY RIGHT-OF-WAY.

# ROOSEVELT WATER CONSERVATION DISTRICT (RWCD):

CONTRACTORS SHALL OBTAIN A PERMIT FROM RWCD PRIOR TO CROSSING REMOVING REPLACING OR MAKING ANY MODIFICATIONS TO RWCD FACILITIES.

#### CITY OF MESA STORM WATER DRAINAGE & RETENTION NOTES:

- 1. THE ENGINEER, OR LAND SURVEYOR SHALL CERTIFY THAT THE REQUIRED STORM WATER RETENTION HAS BEEN PROVIDED. THE CERTIFICATION SHALL ALSO INDICATE THE ACTUAL VOLUME PROVIDED. SUCH CERTIFICATION SHALL BE PROVIDED TO THE DEVELOPMENT SERVICES DEPARTMENT WHEN THE RETENTION AREA IS TO REMAIN PRIVATE PROPERTY AND TO THE ENGINEERING DEPARTMENT WHEN THE RETENTION AREA IS TO BECOME CITY OF MESA
- 2. ALL DRYWELLS SHOWN ON THIS PROJECT SHALL BE MAINTAINED BY THE OWNERS AND ARE TO BE REPLACED BY THE OWNERS WHEN THEY CEASE TO DRAIN WATER IN A 36 HOUR PERIOD, REGULAR MAINTENANCE OF THE DRYWELL-SILTING CHAMBER IS REQUIRED TO ACHIEVE THE BEST OPERATION OF THE DRYWELL.IN ACCORDANCE WITH ARIZONA REVISED STATUTES, DRYWELLS ARE REQUIRED TO BE REGISTERED WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ). IT IS THE OWNER'S RESPONSIBILITY TO REGISTER ALL DRYWELLS. AN AQUIFER PROTECTION PERMIT MAY BE REQUIRED BY ADEQ FOR DRYWELLS DEEMED TO BE HAZARDOUS TO GROUNDWATER.

# CITY OF MESA PUBLIC STREET LIGHTING NOTES:

- 1. STREET LIGHT CONDUITS SHOULD BE INSTALLED PRIOR TO DRIVEWAY INSTALLATIONS, IF STREETLIGHT CONDUIT IS INSTALLED AFTER DRIVEWAY INSTALLATION, CONTRACTOR SHALL BORE CONDUIT UNDER THE DRIVEWAY PER CITY OF MESA DETAIL M-18. MEANDERING THE CONDUIT BEHIND THE DRIVEWAY ENTRANCE WILL NOT BE PERMITTED.
- 2. MATERIALS AND INSTALLATION OF THIS PROJECT SHALL COMPLY WITH THE CURRENT MESA STANDARD DETAILS, AMENDMENTS TO THE UNIFORM STANDARD DETAILS, THE CITY OF MESA ENGINEERING PROCEDURE MANUAL AND AMENDMENTS TO THE CITY OF MESA ENGINEERING PROCEDURE MANUAL.
- 3. THE CONTRACTOR SHALL HAVE AT LEAST AN IMSA-CERTIFIED LEVEL 1 STREET LIGHT TECHNICIAN OR AN IMSA LEVEL 1 TRAFFIC SIGNAL TECHNICIAN ON SITE DURING ALL PHASES OF ANY STREET LIGHT WORK, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE VERIFICATION OF THIS CERTIFICATION. IF A JOB SITE IS INSPECTED AND NO TECHNICIAN IS PRESENT ON SITE, ANY WORK ASSOCIATED WITH THE STREET LIGHTS WILL BE SUSPENDED.
- 4. ALL TREES SHALL BE PLANTED A MINIMUM OF EIGHTEEN (18) FEET FROM STREET LIGHT POLES AND LIGHTING CONTROL CABINETS, ALL SHRUBS SHALL BE PLANTED A MINIMUM OF SEVEN (7) FEET FROM STREET LIGHT POLES AND LIGHTING CONTROL CABINETS.
- 5. ALL CONDUIT, CONDUCTORS, WIRE, AND QUANTITIES SHALL BE MEASURED BY THE LINEAR FOOT HORIZONTALLY BETWEEN POLES, PULL BOXES AND CONTROL CABINETS, NO ADDITIONAL PAYMENT WILL BE MADE FOR SWEEPS AND VERTICAL RUNS, AS THEY SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND INCLUDED IN THE HORIZONTAL MEASUREMENT OF THE
- CONDUITS SHOULD BE INSTALLED PRIOR TO DRIVEWAY INSTALLATIONS. IF CONDUIT IS INSTALLED AFTER DRIVEWAY INSTALLATION, THE CONTRACTOR SHALL BORE UNDER THE DRIVEWAY, PER CITY OF MESA DETAIL M-18, FOR CONDUIT INSTALLATION. MEANDERING THE CONDUIT BEHIND THE ENTRANCE WILL NOT BE ALLOWED.
- NOTE: THE LOCATION OF THE TRAFFIC SIGNAL FIBER OPTIC CONDUIT (TSF0) AS SHOWN IS DRAWN AT AN OFFSET AND IS FOR GRAPHICAL REPRESENTATION ONLY AND SHALL BE INSTALLED IN A JOINT TRENCH WITH THE STREET LIGHT CONDUIT PER COM DETAIL M-93.3 &
- 8. FOR AREAS WHERE 24-INCHES OF COVER IS NOT POSSIBLE, SEE CHAPTER 9 OF THE CITY OF MESA ENGINEERING & DESIGN STANDARDS. SAID AREAS SHALL BE IDENTIFIED ON PLANS. SUPPLY FULL CONFLICT DATA INCLUDING TOP OF CURB,SIZE & MATERIAL OF PIPE,INVERT,
- 9. TO RETURN SALVAGED STREET LIGHT MATERIALS, THE CONTRACTOR SHALL CONTACT THE STREET LIGHT FOREMAN FOR THE AREA THE WORK IS OCCURRING IN. WEST OF VAL VISTA DRIVE, CALL 480-644-3178. EAST OF VAL VISTA DRIVE, CALL 480-644-5077. ARRANGEMENTS TO DELIVER MATERIALS MUST BE MADE A MINIMUM OF 48 HOURS IN ADVANCE.THE CONTRACTOR IS RESPONSIBLE FOR UNLOADING AND STACKING ALL MATERIALS. A CITY OF MESA STAFF MEMBER MUST BE PRESENT WHEN MATERIALS ARE DELIVERED TO GET CREDIT FOR THE SALVAGED MATERIALS.
- 10. ALL EXISTING CONCRETE DISTURBED OR DAMAGED DURING THE INSTALLATION OR REMOVAL OF STREET LIGHTING SYSTEMS SHALL BE REPLACED IN KIND. THE WORK IS TO BE COORDINATED WITH THE CITY INSPECTOR.
- 11. ALL EXISTING LANDSCAPE, HARDSCAPE OR SPRINKLER SYSTEMS DISTURBED OR DAMAGED DURING THE INSTALLATION OR REMOVAL OF STREET LIGHTING SYSTEMS SHALL BE REPLACED IN KIND. THE WORK IS TO BE COORDINATED WITH THE CITY INSPECTOR.
- 12. THE CONTRACTOR IS TO USE UTMOST CAUTION WHILE WORKING AROUND ALL OVERHEAD AND UNDERGROUND UTILITIES, ESPECIALLY ELECTRIC, GAS, WATER, SEWER AND FIBER OPTIC LINES.

# CITY OF MESA PUBLIC TRAFFIC SIGNAL NOTES:

- 1. CONTRACTORS SHALL CONTACT THE CITY OF MESA TRAFFIC SIGNALS SUPERVISOR (480) 644-3122 PRIOR TO ANY WORK WITHIN THE VICINITY OF OR THROUGH A SIGNALIZED INTERSECTION WHICH WILL CHANGE TRAFFIC LANE PATTERNS.
- 2. THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY TRAFFIC SIGNAL DAMAGE TO THE CITY INSPECTOR AND CITY ITS OPERATIONS AT 480-644-3129. DAMAGE TO ANY TRAFFIC SIGNAL EQUIPMENT (SUCH AS DETECTOR LOOPS, PULL BOXES, CONDUIT, CONTROLLER CABINETS, POLES, MAST ARMS, HEADS, ETC.) AS A RESULT OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE CITY. REPAIRS SHALL BE DONE BY AN IMSA CERTIFIED TRAFFIC SIGNAL LEVEL I TECHNICIAN AND SHALL BE INSPECTED BY THE CITY OF MESA TRAFFIC SIGNALS GROUP, DETECTOR LOOPS SHALL BE REINSTALLED WITHIN TWENTY-FOUR (24) HOURS OF REMOVAL AND PRIOR TO THE PLACEMENT OF THE ASPHALT FINISH COURSE.
- 3. THE CONTRACTOR SHALL HAVE AT LEAST AN IMSA-CERTIFIED LEVEL II (2) TRAFFIC SIGNAL TECHNICIAN ON SITE DURING ALL PHASES OF ANY TRAFFIC SIGNAL WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE VERIFICATION OF THIS CERTIFICATION. IF A JOB SITE IS INSPECTED AND NO TECHNICIAN IS PRESENT ON SITE, ANY WORK ASSOCIATED WITH THE TRAFFIC SIGNAL WILL BE SUSPENDED.
- 4. IN TRAFFIC AREAS, ADD A SLURRY CAP TO THE TRAFFIC SIGNAL FIBER OPTIC (TSFO) CONDUIT TRENCH WHERE THE 48" DEPTH REQUIRED PER CITY OF MESA DETAILS M-93.3 & M-93.4 CANNOT BE MAINTAINED. IN NON-TRAFFIC AREAS (BACK OF SIDEWALK), IF THE TSFO CONDUIT IS INSTALLED AT A DEPTH OF LESS THAN 36-INCHES, A 6-INCH SLURRY CAP IS REQUIRED. THE MINIMUM ALLOWABLE DEPTH FOR TSFO CONDUITS IS 24-INCHES. THE CITY INSPECTOR SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO INSTALLING CONDUITS WHEN ANY VARIATION TO CITY OF MESA DETAIL M-93.3 OR M-93.4 IS REQUIRED. IF TSFO CONDUIT IS REQUIRED TO MEANDER VERTICALLY OR HORIZONTALLY, NO CONDUIT BEND SHALL EXCEED 45 DEGREES.
- TSFO CONDUITS SHALL BE INSTALLED 48-INCHES DEEP IN A JOINT TRENCH WITH STREET LIGHT CONDUIT PER CITY OF MESA DETAIL M-93.3 & M-93.4.

# CITY OF MESA SIGNING GENERAL NOTES:

- 1. ALL REFLECTIVE SHEETING MATERIAL(S) SHALL BE PRESSURE SENSITIVE ASTM TYPE IV WIDE ANGLE WHITE PRISMATIC SHEETING OR APPROVED EQUAL WITH THE FOLLOWING EXCEPTIONS:
- ALL WARNING SIGNS (YELLOW SERIES) SHALL BE ASTM XI (FLOURESCENT YELLOW SHEETING).
- ALL REGULATORY SIGNS SHALL BE ASTM TYPE XI SHEETING. - STREET NAME SIGNS:
- O ANY ARTERIAL INTERSECTION (ALL BLADES) SHALL BE ASTM TYPE XI SHEETING. O ALL OTHER INTERSECTIONS SHAL BE ASTM TYPE IV SHEETING.
- ALL PEDESTRIAN AND SCHOOL AREA SIGNING SHALL BE ASTM TYPE XI SHEETING (FLOURESCENT YELLOW-GREEN)
- 2. SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFELECTIVE SHEETING MANUFACTURERS MATCHED COMPONENT SYSTEM, SIGN IMAGING SHALL CONSIST OF A TRANSPARENT ACRYLIC BASED ELECTRONIC CUTTABLE FILM (3M 1170 SERIES OR EQUIVALENT) OR SILK SCREENED (DEPENDING ON THE QUANTITY OF SIGNAGE) WITH STANDARD HIGHWAY COLORS.
- 3. STREET NAME SIGNS:
- PUBLIC STREETS SHALL BE PRESSURE SENSITIVE 3M #1177 GREEN ELECTRO CUT FILM OR APPROVED EQUAL. - PRIVATE STREETS SHALL BE PRESSURE SENSITIVE 3M #1175 BLUE ELECTRO CUT FILM OR APPROVED EQUAL.
- 4. ANY REQUEST TO USE SHEETING OTHER THAN THAT SPECIFIED ABOVE SHALL BE MADE IN WRITING TO THE CITY TRAFFIC ENGINEER 30 DAYS IN ADVANCE
- 5. THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF ALL SIGNS. SEE MESA STANDARD DETAILS M-20.01 THRU M-21.08, SIGN POST INSTALLATION SHALL BE PER CITY OF MESA STANDARD DETAIL M-39.
  - PRIVATE STREET NAME SIGNS AND TRAFFIC CONTROL SIGNS INSTALLED ON PRIVATE STREETS SHALL BE THE RESPONSIBILITY OF THE HOMEOWNER'S ASSOCIATION (PROPERTY OWNER(S)) IN PERPETUITY.
- 6. ALL SIGNING SHALL CONFORM TO THE REQUIREMENTS CONTAINED IN THE LATEST APPROVED EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE LATEST APPROVED EDITION OF THE STANDARD HIGHWAY SIGNS BOOK AND THE LATEST APPROVED EDITION OF THE ARIZONA SUPPLEMENT PUBLISHED BY THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT).
- 7. SIGNS THAT ARE REQUIRED TO BE REMOVED OR RELOCATED DURING CONSTRUCTION SHALL BE THE RESPOSIBILITY OF THE CONTRACOR. ANY SIGNING THAT IS TO BE RELOCATED OR REMOVED DUE TO CONSTRUCTION SHALL BE REINSTALLED IN ITS FINAL LOCATION PER CITY OF MESA
- 8. THE CONTRACTOR SHALL ENSURE THAT AT NO TIME A TRAFFIC SIGN IS INSTALLED IN SUCH A MANNER AS TO BE BLOCKED BY A TREE OR ANY TYPE OF VEGETATION, IN THESE CASES, THE CONTRACTOR SHALL CONTACT THE TRANSPORTATION DEPARTMENT AT 480-644-2160 TO PROVIDE AN ALTERNATE LOCATION PRIOR TO INSTALLATION.
- 9. ANY SIGNING INSTALLED WITHIN THE CITY OF MESA'S RIGHT-OF-WAY SHALL BE INSTALLED BY AN INDIVIDUAL THAT HAS CURRENT CERTIFICATION IN SIGNING INSTALLATION OR INSPECTION FROM AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) OR THE INTERNATIONAL MUNICIPAL SIGNAL (IMSA). EQUIVALENTS WILL BE CONSIDERED BUT MUST BE APPROVED BY THE CITY TRAFFIC ENGINEER 30 DAYS PRIOR TO INSTALLATION OF ANY SIGNING.
- 10. SIGNING QUANTITIES AND INSTALLATION LOCATIONS ARE SUBJECT TO CHANGE AT THE TIME OF INSTALLATION BASED UPON CURRENT ACCEPTED PRACTICE.

# CITY OF MESA MISC. NOTES:

A. COMPLY WITH ALL PROVISIONS AND REQUIREMENTS OF MESA BUILDING CODE (MBC) CHAPTER 33 -SAFEGUARDS DURING CONSTRUCTION, MESA FIRE CODE (MFC) CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, AND NFPA 241 FOR ITEMS NOT SPECIFICALLY ADDRESSED BY MFC CHAPTER 33.

FIRE APPARATUS ACCESS ROADS ARE ESSENTIAL DURING CONSTRUCTION TO ALLOW EMERGENCY RESPONSE TO THE SITE FOR BOTH FIRE AND MEDICAL EMERGENCIES, ACCESS ROADS SHALL BE IN PLACE PRIOR TO THE START OF VERTICAL CONSTRUCTION, IT IS IMPORTANT TO DEVELOP ACCESS ROADS AT AN EARLY STAGE OF CONSTRUCTION TO ALLOW FOR FIRE DEPARTMENT ACCESS TO THE SITE IN THE CASE OF FIRE OR INJURY.

B.REQUIRED FIRE APPARATUS ACCESS ROAD DURING CONSTRUCTION OR DEMOLITION SHALL COMPLY WITH MESA FIRE AND MEDICAL DEPARTMENT STANDARD DETAIL FPD 3310.1. THE ACCESS ROAD SHALL BE A MINIMUM OF 20 FEET WIDE OF ALL-WEATHER DRIVING SURFACE, GRADED TO DRAIN STANDING WATER AND ENGINEERED TO BEAR THE IMPOSED LOADS OF FIRE APPARATUS (78,000 LBS. / 24,000 LBS. FRONT AXLE, 54,000 LBS. REAR AXLE) WHEN ROADS

THE ACCESS ROAD SHALL EXTEND TO WITHIN 200 FEET OF ANY COMBUSTIBLE MATERIALS AND/OR ANY LOCATION ON THE JOBSITE WHERE ANY PERSON(S) SHALL BE WORKING FOR A MINIMUM OF FOUR (4) CONTINUOUS HOURS IN ANY DAY. A CLEARLY VISIBLE SIGN MARKED

FIRE DEPARTMENT ACCESS, IN RED LETTERS, SHALL BE PROVIDED AT THE ENTRY TO THE ACCESS ROAD.

A CLEARLY VISIBLE SIGN MARKED FIRE DEPARTMENT ACCESS, IN RED LETTERS,

SHALL BE PROVIDED AT THE ENTRY TO THE ACCESS ROAD.

ALL OPEN TRENCHES SHALL HAVE STEEL PLATES CAPABLE OF MAINTAINING THE INTEGRITY OF THE ACCESS ROAD DESIGN WHEN THESE TRENCHES CROSS AN ACCESS ROAD.

THESE ACCESS ROADS MAY BE TEMPORARY OR PERMANENT, THIS POLICY APPLIES ONLY DURING CONSTRUCTION AND/OR DEMOLITION. PERMANENT ACCESS PER THE MFC SHALL BE IN PLACE PRIOR TO ANY FINAL INSPECTION OR CERTIFICATE OF OCCUPANCY.

C.WATER SUPPLY FOR FIRE PROTECTION, AN APPROVED WATER SUPPLY FOR CONSTRUCTION SITE SHALL MEET THE REQUIREMENTS OF MFC APPENDIX CHAPTERS B AND C. THE MINIMUM FIRE FLOW REQUIREMENT WHEN CONTRACTOR OR DEVELOPER BRINGS COMBUSTIBLE MATERIALS ON SITE IS 1.500 GPM AT 20 PSI. AT LEAST ONE FIRE HYDRANT SHALL BE WITHIN 500 FEET OF ANY COMBUSTIBLE MATERIAL AND CAPABLE OF DELIVERING THE MINIMUM FIRE FLOW REQUIREMENT. THIS HYDRANT OR HYDRANTS MAY BE EITHER TEMPORARY OR PERMANENT AS THE PROJECT SCHEDULE PERMITS. IN ADDITION. THERE ARE TIMES WHEN HYDRANTS AND VALVES MUST BE CLOSED TEMPORARILY FOR REPAIR WORK OR CONSTRUCTION OF THE WATER SYSTEM, THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE WATER SUPPLY IS ALWAYS AVAILABLE, WHEN THE WORK IS COMPLETE, DEVELOPER/CONTRACTOR SHALL MAKE SURE THAT THE FIRE HYDRANTS ARE ACTIVE, AND THE VALVES ARE OPEN.

# CITY OF MESA PAVEMENT MARKINGS GENERAL NOTES:

- ALL SIGNING AND PAVEMENT MARKING MATERIALS AND EQUIPMENT SHALL CONFORM TO THE CITY OF MESA STANDARD DETAILS, MUTCD AND ADOT STANDARD SPECIFICATIONS AND STANDARD DRAWINGS, LATEST APPROVED
- WHEN STRIPING OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED IN CONFORMANCE WITH ADOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2008, SECTION 701-3.06. IF PAID FOR PER FOOT, REFER TO 701-5.05. GRINDING IS NOT AN ACCEPTABLE FORM OF OBLITERATION.
- 3. ALL LANE LINES, EDGE LINES, BIKE LANE LINES, CENTERLINES, AND PAINTED MEDIANS SHALL BE CITY APPROVED PAINT AT A MINIMUM OF 15 MIL WET

PAINTING OVER STRIPING DOES NOT CONSTITUTE STRIPE OBLITERATION.

- 4. ALL STOP BARS AND CROSSWALKS SHALL BE 90 MIL THICK EXTRUDED ALKYD THERMOPLASTIC MARKING MATERIAL PER ADOT STANDARD SPECIFICATIONS
- 5. ALL SYMBOLS AND WORD LEGENDS SHALL BE TYPE IV 90 MIL PREFORMED THERMOPLASTIC PER ADOT STANDARD SPECIFICATIONS SECTION 705 UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PAINT ALL RAISED MEDIAN ISLAND NOSES REFLECTORIZED YELLOW, 10 L.F. BEYOND THE RADIUS POINTS. THE LANE WIDTH DIMENSIONS FOR ALL PAVEMENT MARKINGS SHALL BE FROM THE FACE OF CURB TO CENTER OF STRIPE OR CENTER OF STRIPE TO CENTER OF STRIPE UNLESS NOTED OTHERWISE.

# APPROXIMATE PUBLIC QUANTITIES

FOR ESTIMATING ONLY, ENGINEER MAKES NO GUARANTEE OF ACCURACY

PUBLIC WATER				
ITEM	DESCRIPTION	QTY.	UNIT	
1	MESA DRIVEWAY M-42	3	EA.	
2	ASPHALT PAVEMENT	720		

PRIVATE STORM DRAIN					
ITEM	DESCRIPTION	QTY.	UNIT		
1	MAXWELL PLUS DRYWELL	1	EA.		
2	10' DIA. UNDERGROUND RETENTION PIPE	100	L.F.		
3	48"C.M.P. ACCESS MANHOLE/RISER	2	EA.		
4	12"DIA. H.D.P.E. STORM DRAIN PIPE	7	L.F.		
5	18"DIA. H.D.P.E. STORM DRAIN PIPE	204	L.F.		
6	CATCH BASIN TYPE "F" (M.A.G. STD. DTL. 535)	5	EA.		
7					
8					
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Contact Arizona 811 at least two full

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EXPIRES: 12/31/2024

3 ENGINEERING, LLC 6370 E. THOMAS ROAD SUITE # 200 SCOTTSDALE, ARIZONA 85 PHONE: (602) 334-4387

WWW.3ENGINEERING.COM DATE: 11/22/24

FAX: (602) 490-3230

PROJECT NO. 5326

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# 3 ENGINEERING GENERAL NOTES:

- MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION) INCLUDING LATEST REVISION AND CURRENT SUPPLEMENTALS THEREOF PER THE LOCAL TOWN OR CITY) ARE INCORPORATED INTO THIS PLAN IN THEIR ENTIRETY.
- 2. ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THIS PLAN SHALL BE IN ACCORDANCE WITH THE M.A.G. STANDARD SPECIFICATIONS AND DETAILS AND CURRENT SUPPLEMENTS THEREOF PER THE LOCAL CITY OR TOWN UNLESS SPECIFIED OTHERWISE IN THESE PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL REQUIRED STANDARD SPECIFICATIONS, DETAILS AND SUPPLEMENTS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
- 3. ANY QUESTION RAISED RELATIVE TO THE ACCURACY OF IMPROVEMENT INSTALLATION SHALL NOT BE RAISED SUBSEQUENT TO COMPLETION OF THE WORK UNLESS ALL SURVEY STAKES ARE MAINTAINED INTACT. SHOULD SUCH STAKES NOT BE PRESENT AND VERIFIED AS TO THEIR ORIGIN, NO CLAIM FOR ADDITIONAL COMPENSATION FOR CORRECTION SHALL BE PRESENTED TO ANY PARTY AND SUCH WORK SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE.
- 4. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT 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, ACCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- 5. NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- 6. THE CONTRACTOR SHALL FOLLOW THE GUIDELINES AND REGULATIONS AS SET FORTH BY OSHA.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL GRADING AND STORM DRAINS ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE ARE ANY QUESTIONS REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK AT 602-334-4387. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM HIS OPERATIONS BY APPROPRIATE MEANS (SAND BAGS, HAY BALES, TEMPORARY DESILTING BASINS, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENCE BY WHATEVER OWNER,
- 8. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO OTHER EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ALL DAMAGES THERETO CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND AT THE EXPENSE OF THE CONTRACTOR.

AGENCY OR ASSOCIATION IS TO BE ULTIMATELY RESPONSIBLE.

- 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND PIPELINES. TELEPHONE AND ELECTRIC CONDUITS AND STRUCTURES IN ADVANCE OF ANY CONSTRUCTION AND TO OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO SUCH. THE ENGINEER AND/OR OWNER WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM SAME.
- 10. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATIONS OF EXISTING FACILITIES.
- 11. BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES WITH THE APPROPRIATE UTILITY COMPANY.
- 12. LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.
- 13. CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES DURING THE GRADING OPERATIONS.
- 14. WHERE TRENCHES ARE WITHIN EASEMENTS OR WITHIN 10'OF ANY BUILDING, A SOILS REPORT SHALL BE SUBMITTED TO THE ENGINEER OF WORK BY A QUALIFIED SOILS ENGINEER WHICH INDICATES THAT TRENCH BACKFILL WAS COMPACTED UNDER THE OBSERVATION OF THE SOILS ENGINEER AND IN ACCORDANCE WITH THE ABOVE-NAMED SPECIFICATIONS.
- 15. ALL FRAMES, COVERS, VALVE BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION.
- 16. THE SOILS (GEOTECHNICAL) REPORT FOR THIS PROJECT, INCLUDING ALL ADDENDUMS, SHALL BE CONSIDERED A PART OF THESE PLANS. ALL PAVING, GRADING, EXCAVATION, TRENCHING, PIPE BEDDING, CUT FILL AND BACKFILL SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN SAID REPORT.
- 17. ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED SOILS ENGINEER, ALL AREAS TO BE FILLED SHALL BE PREPARED TO BE FILLED AND ALL FILL SHALL BE PLACED IN ACCORDANCE WITH THE RECOMMENDED GRADING SPECIFICATIONS AND SPECIAL PROVISIONS ATTACHED TO THE SOILS INVESTIGATION FOR THIS SUBDIVISION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE, SPREAD, WATER AND COMPACT THE FILL IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS.
- 18. OBSERVATIONS AND COMPACTION TESTS SHALL BE MADE BY THE SOILS ENGINEER DURING THE FILLING AND COMPACTING OPERATIONS SO THAT HE CAN STATE HIS OPINION THAT THE FILL WAS CONSTRUCTED IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS.
- 19. IN THE CASE OF CONFLICTS, THE REQUIREMENTS OF THE EARTHWORK SPECIFICATIONS PREPARED FOR THE PROJECT BY THE SOILS ENGINEER SHALL GOVERN THE REQUIREMENTS OF THIS PLAN AND THESE NOTES. PLANS SHALL BE REVISED ACCORDINGLY.
- 20. CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISH GRADE TO PRODUCE A SMOOTH SURFACE AND UNIFORM CROSS SECTION. THE SLOPE OF THE EXCAVATIONS OR EMBANKMENTS SHALL BE SHAPED AND TRIMMED AS SHOWN ON THE PLANS AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, OR OTHER WASTE MATTER EXPOSED ON EXCAVATION OR EMBANKMENT SLOPES SHALL BE REMOVED AND DISPOSED OF OFF SITE IN A LEGAL MANNER BY THE CONTRACTOR.
- 21. GRADING CONTRACTOR IS TO COORDINATE THE GRADING OPERATION WITH UTILITY COMPANIES PERTAINING TO POLE REMOVAL, ADJUSTING WATER BLOWOFFS AND WATER FACILITIES TO GRADE OR ANY OTHER UTILITY ADJUSTMENTS.
- 22. ANY EXISTING RETENTION AND DRAINAGE FACILITIES ON THIS SITE WILL NOT BE REMOVED FROM SERVICE UNTIL THE PERMANENT RETENTION AND DRAINAGE FACILITIES ARE FUNCTIONAL.
- 23. SCARIFY RETENTION AREAS 1 FOOT MINIMUM DEPTH PRIOR TO PLACEMENT OF LANDSCAPING ROCK OR TURF, PROVIDE 75-85 PERCENT COMPACTION WITHIN SCARIFIED ZONE AT COMPLETION OF GRADING.
- 24. FINISH GRADES IN RETENTION AND LANDSCAPE AREAS SHOWN ON THIS PLAN ARE FINAL GRADES AT COMPLETION OF LANDSCAPING.
- 25. CONTRACTOR SHALL NOTIFY THE ENGINEER REGARDING ANY DISCREPANCIES IN A.D.A. REQUIREMENTS BETWEEN THE PLANS AND THE FIELD INSPECTOR OR OTHER AGENCY PRIOR TO IMPLEMENTATION OF ANY CHANGES TO THE APPROVED PLANS.

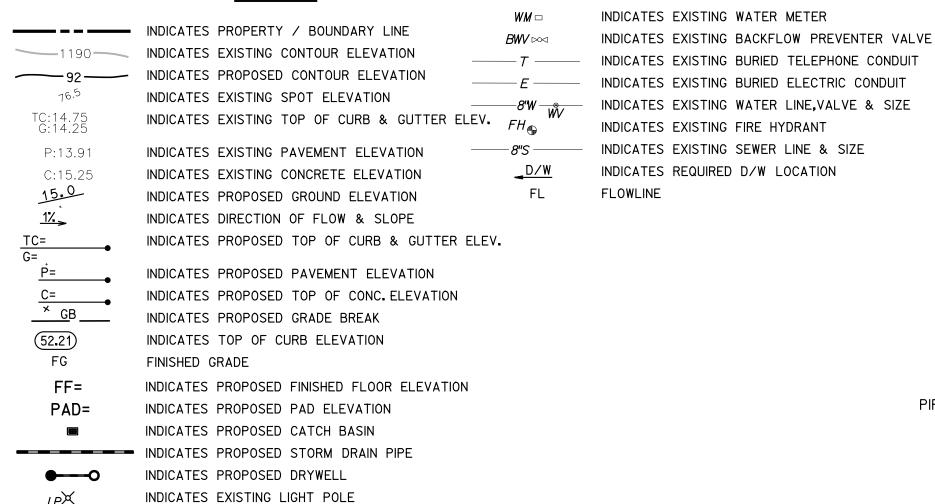
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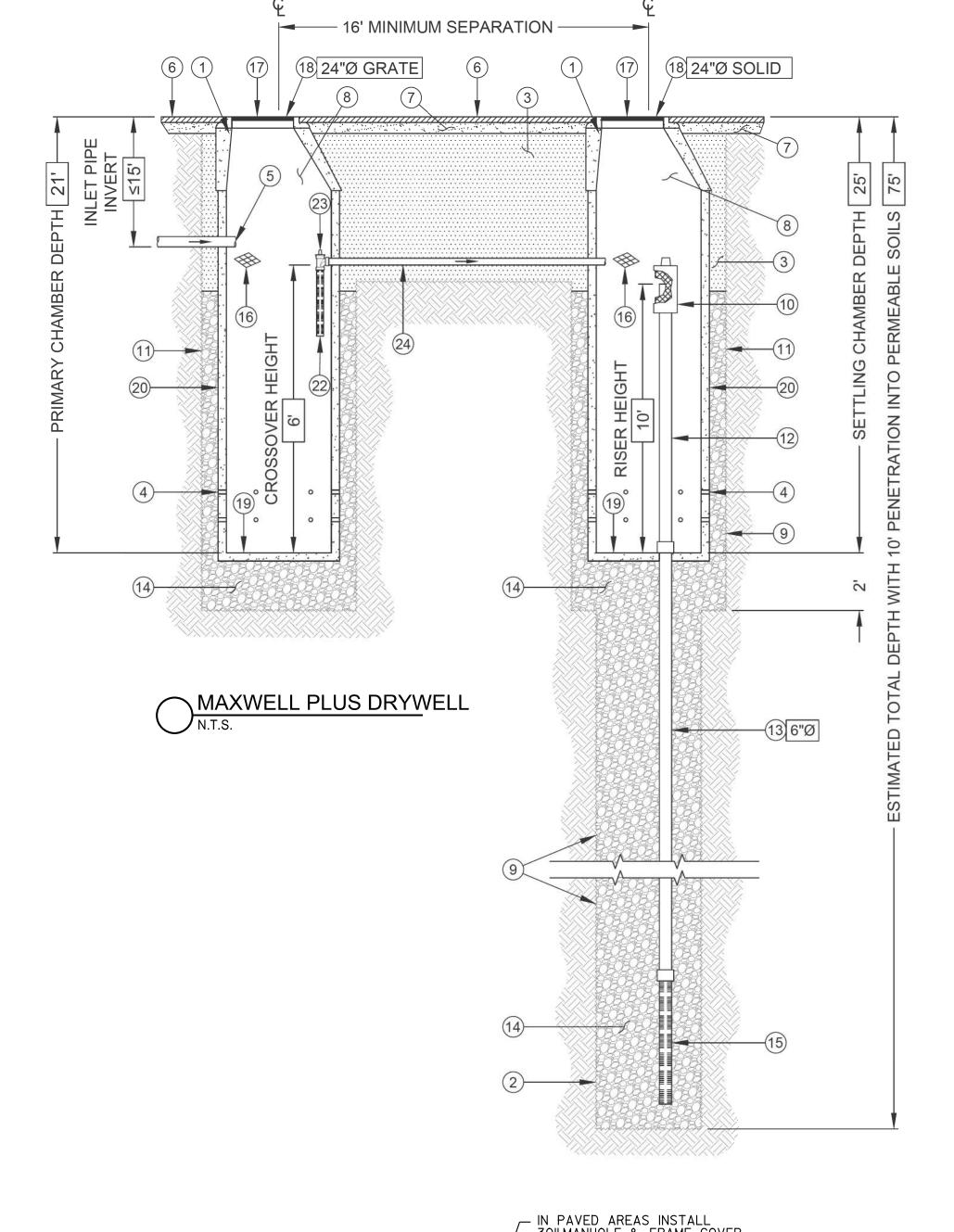
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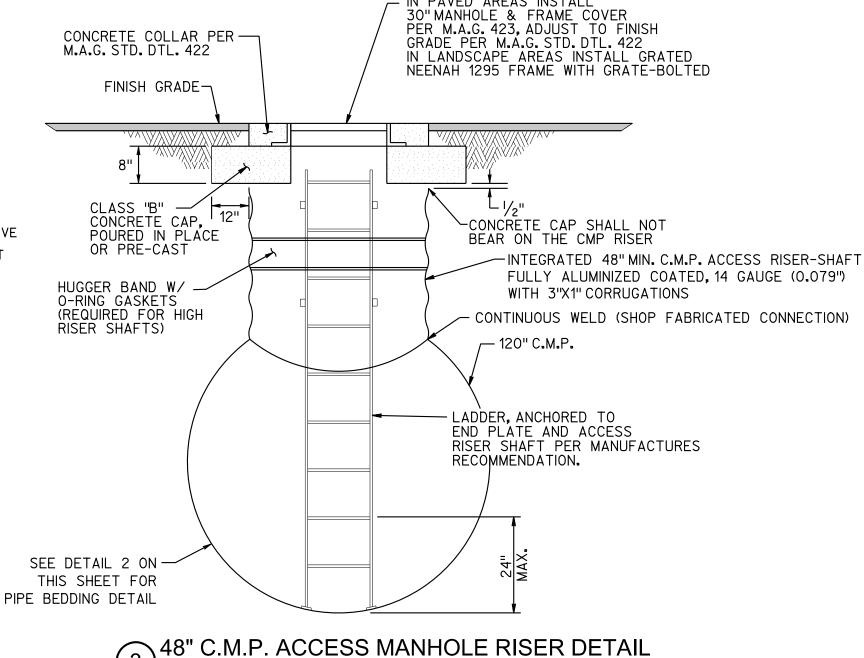
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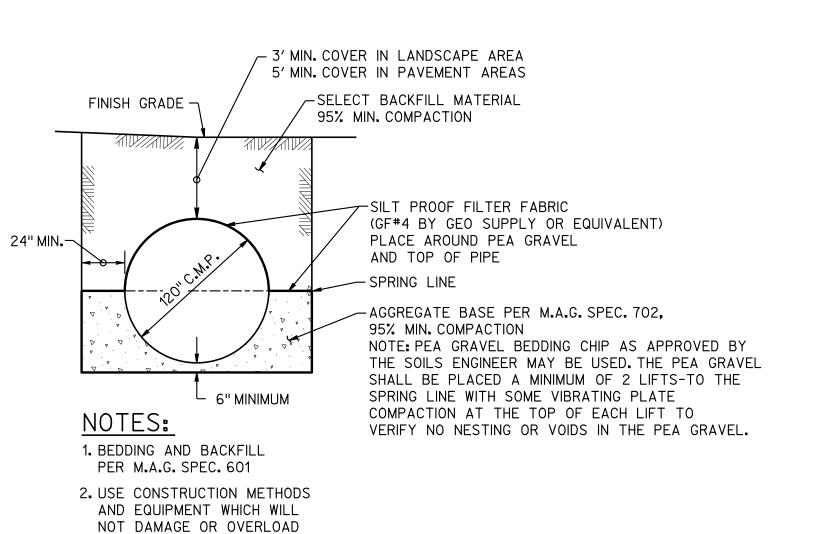


# ITEM NUMBERS

- 1. MANHOLE CONE MODIFIED FLAT BOTTOM.
- 2. MIN. 4' Ø DRILLED SHAFT.
- 3. STABILIZED BACKFILL ONE SACK SLURRY MIX.
- 4. 6 PERFORATIONS MINIMUM PER ROW, 2 ROWS MINIMUM.
- 5. INLET PIPE (BY OTHERS). SEE SEPARATE PLAN FOR INVERT ELEVATIONS.
- 6. GRADED BASIN OR PAVING (BY OTHERS).
- 7. COMPACTED BASE MATERIAL, IF REQUIRED (BY OTHERS).
- 8. FREEBOARD DEPTH VARIES WITH INLET PIPE ELEVATION. INCREASE SETTLING CHAMBER DEPTH AS NEEDED TO MAINTAIN ALL INLET PIPE ELEVATIONS ABOVE RISER PIPE.
- 9. NOT USED.
- 10. PUREFLO® DEBRIS SHIELD ROLLED 16 GA. STEEL X 24" LENGTH WITH VENTED ANTI-SIPHON AND INTERNAL 0.265" MAX. SWO FLATTENED EXPANDED STEEL SCREEN X 12" LENGTH. FUSION BONDED EPOXY COATED.
- 11. MIN. 6' Ø DRILLED SHAFT.
- 12. RISER PIPE SCH. 40 PVC MATED TO DRAINAGE PIPE AT BASE SEAL
- 13. DRAINAGE PIPE ADS HIGHWAY GRADE OR SCH. 40 PVC WITH TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS. DIAMETER AS NOTED.
- 14. ROCK WASHED, SIZED BETWEEN 3/8" AND 1-1/2"
- 15. FLOFAST® DRAINAGE SCREEN SCH. 40 PVC 0.120" SLOTTED WELL SCREEN WITH MIN. 32 SLOTS PER ROW/FT. OVERALL LENGTH VARIES, UP TO 120" WITH TRI-B COUPLER.
- 16. ABSORBENT HYDROPHOBIC PETROCHEMICAL SPONGE. MIN. 128 OZ. CAPACITY.
- 17. FABRIC SEAL U.V. RESISTANT GEOTEXTILE TO BE REMOVED BY CUSTOMER AT PROJECT COMPLETION GRATED ONLY.
- **18. BOLTED RING & GRATE/COVER** DIAMETER & TYPE AS SHOWN. CLEAN CAST IRON WITH WORDING "STORMWATER ONLY" IN RAISED LETTERS. BOLTED IN 2 LOCATIONS AND SECURED TO CONE WITH MORTAR. RIM ELEVATION ±0.02' OF PLANS.
- 19. BASE SEAL GEOTEXTILE.
- 20. PRE-CAST LINER 4000 PSI CONCRETE 48" ID. X 54" ID. CENTER IN HOLE AND ALIGN SECTIONS.
- 21. NOT USED.
- 22. INTAKE SCREEN 4"Ø SCH. 40 PVC 0.120" MODIFIED SLOTTED WELL SCREEN WITH MIN. 32 SLOTS PER ROW/FT. 48" OVERALL LENGTH WITH TRI-C END CAP.
- 23. VENTED ANTI-SIPHON INTAKE WITH FLOW REGULATOR
- 24. CONNECTOR PIPE 4" Ø SCH. 40 PVC.

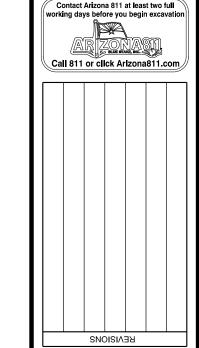
# **GENERAL NOTES:**

- . THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR REGISTERING THE DRY WELLS SHOWN ON THE G&D PLAN WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (A.D.E.Q.). FOR INFORMATION ABOUT SPECIFIC REQUIREMENTS, CONTACT WATER PERMITS UNIT AT (602) 717-4686.
- DRY WELLS MUST BE DRILLED A MINIMUM OF 10 FEET INTO PERMEABLE POROUS STRATA OR PERCOLATION TESTS WILL BE REQUIRED. THE G&D INSPECTOR MUST BE PRESENT BEFORE BACKFILL OR WELL PIPES ARE PLACE WITHIN ANY DRY WELLS.
- 3. THE OWNER/DEVELOPER IS RESPONSIBLE FOR INSTALLING DRYWELL(S) SHOULD THE RETENTION BASINS FAIL TO DRAIN WITHIN 36 HOURS.



2 C.M.P. DETENTION PIPE BEDDING
N.T.S.

C.M.P. DURING CONSTRUCTION.



AIZONA MESA KEC) ARIZONA 85210

ARIZONA, U.S.N.

EXPIRES: 12/31/2024

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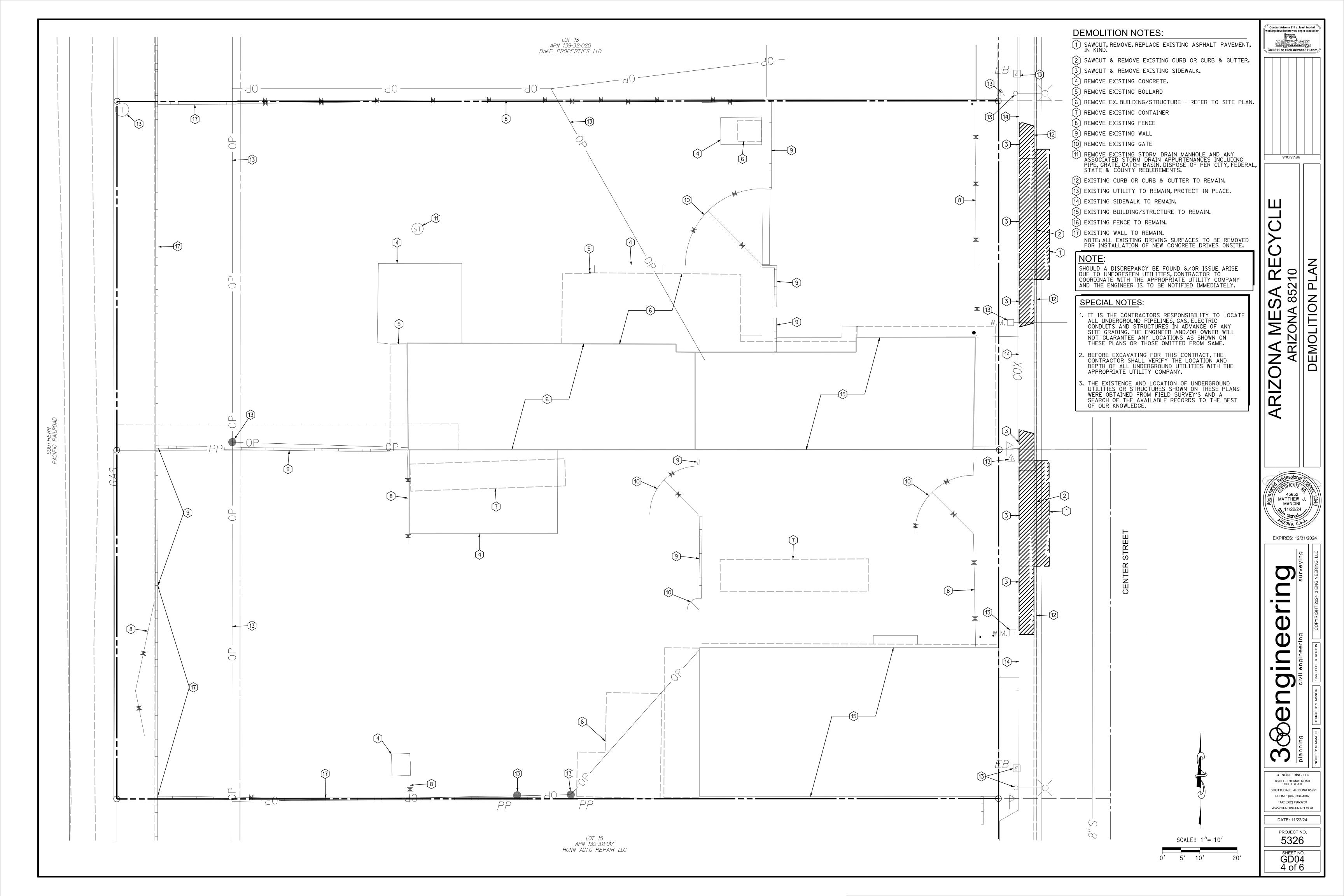
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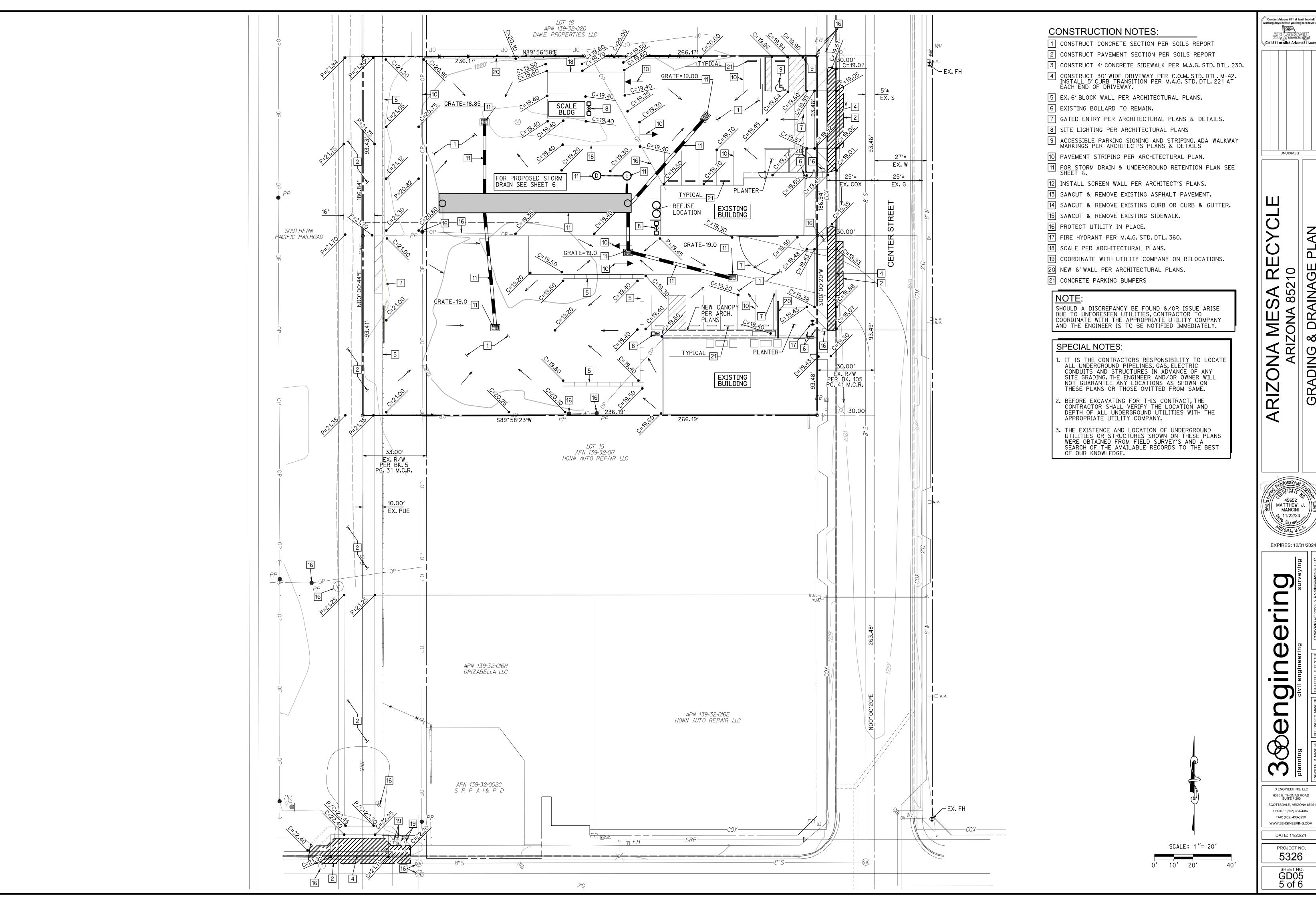
3 ENGINEERING, LLC 6370 E. THOMAS ROAD SUITE # 200 SCOTTSDALE, ARIZONA 85 PHONE: (602) 334-4387 FAX: (602) 490-3230

DATE: 11/22/24

PROJECT NO. **5326** 

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3 ENGINEERING, LLC 6370 E. THOMAS ROAD SUITE # 200 SCOTTSDALE, ARIZONA 85251 PHONE: (602) 334-4387

FAX: (602) 490-3230 WWW.3ENGINEERING.COM DATE: 11/22/24

> PROJECT NO. 5326

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