# E ELLIOT RD E MESQUITE RD SEC 17 T01S R07E E WARNER RD **VICINITY MAP** SCALE: 1"=1/4 MILE — DETAIL 'A' — PROP. PHASE 2 PARKING IMPROVEMENTS CP104off ON-SITE PLANS Q<sub>100</sub>=15 CFS CP102on SEE SHEET INDEX <u> EXISTING PHÁSE 1 PARKING IMPROVEMENTS</u> SEE APPROVED PLANS (PMT119-01503) PROP. PHASE 1 SOUTH PARKING EXPANSION SEE SHEET INDEX

# GRADING AND DRAINAGE PLAN FOR HAPPY WIFE STORAGE, MESA, AZ

PROJECT DESCRIPTION
THE PROJECT CONSISTS OF:

SOUTH PARKING EXPANSION (DETAIL A)
REPLACING THE SOUTH RETENTION BASIN WITH STORAGE PARKING SPACES,
DRIVEWAY, AND UNDERGROUND RETENTION.

PHASE 2 PARKING IMPROVEMENTS/EXPANSION
PROPOSED PARKING IMPROVEMENTS ON PARCEL APN 304-30-007M

PROJECT DATA

ASSESSOR'S PARCEL NUMBERS : 304-30-007M 
: 304-30-007N 
PROJECT ADDRESS : 3815 S SOSSAMAN RD, MESA, AZ 85212 
ZONING : L1 
CONSTRUCTION TYPE : TYPE B

CONSTRUCTION TYPE : TYPE B
RV BUILDING B : 14,568 SF
RV BUILDING C : 14,208 SF

APN 304-30-007N <u>APN 304-30-007M</u> LOT AREA 348,875 SF (8.01 AC) 726,961 SQ.FT. = 16.61 AC net area 694,408 SF = 15.94 ACSOUTH PARKING EXPANSION NARRATIVE PROPOSED PARKING <u>OWNER</u> HAPPY WIFE STORAGE LLC TIM QUIGLEY 3815 S SOSSAMAN RD, TIM@TQDIAMONDS.COM MESA, AZ 85212 608-444-4000

 ENGINEER
 SURVEYOR

 NPS MARICOPA INC
 D2 SURVEYING

 859 NORTH LAFAYETTE
 24468 N. CORN ST.

 MESA, AZ 85201
 FLORENCE, AZ 85132

 TEL: 480.201.5476
 (480) 221-1365

EMAIL: TOM.HAWS@GMAIL.COM

DATE SURVEYED NOV 6, 2021

LEGAL DESCRIPTION:

PARCEL 304-30-007
LOT 1, OF MINOR LAND DIVISION FOR HW STORAGE, ACCORDING TO THE PLAT OF RECORD IN THE OFFICE OF THE COUNTY RECORDER OF MARICOPA COUNTY, ARIZONA, RECORDED IN BOOK 1484 OF MAPS. PAGE 28.

PROJECT BENCHMARK:

TAG IN HEADWALL AT THE INTERSECTION OF SOSSAMAN ROAD AND ELLIOT ROAD.

ELEVATION = 1350.18' (NAVD88 DATUM)

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT

I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION R4-30-301 OF THE RULES OF THE ARIZONA STATE BOARD OF TECHNICAL REGISTRATION, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE REVIEW OF THE PROJECT DRAWINGS AND SPECIFICATIONS BY CITY OF MESA IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

# ABBREVIATIONS LIST

ASSESSOR PARCEL NUMBER AGGREGATE BASE COURSE BACK OF VERTICAL CURB CONCRETE CUBIC FEET CITY OF MESA EXISTING FINISHED FLOOR ELEVATION FLOW LINE GUTTER INVERT ELEVATION LINEAR FOOT MARICOPA COUNTY RECORDER PAVEMENT PROPERTY LINE RIGHT OF WAY STORM DRAIN SQUARE FEET TEMPORARY BENCH MARK TOP OF CURB

# SHEET INDEX

C302

PHASE 2 ON-SITE PARKING IMPROVEMENTS

CO01 - ON-SITE COVER SHEET

CO02 - ON-SITE GENERAL NOTES

C201 - ON-SITE GRADING AND DRAINAGE PLAN

C202 — ON-SITE GRADING AND DRAINAGE SECTIONS
C301 — ON-SITE UTILITY PLAN

- ON-SITE DETAILS

PHASE 1 ON-SITE SOUTH PARKING EXPANSION
C203 - ON-SITE GRADING, DRAINAGE AND UTILITY PLAN

PHASE 2 OFFSITE ROW IMPROVEMENTS
C801 - OFFSITE COVER SHEET

C801 — OFFSITE COVER SHEET
C802 — OFFSITE GENERAL NOTES
C801 — OFFSITE PAVING PLAN
C802—C803 — STRIPING PLAN
C804 — OFFSITE WATER PLAN

UTILITY COORDINATION									
UTILITY COMPANY	ADDRESS	CONTACT	PHONE	EMAIL	DATE SUBMITTED	RESPONSE			
CENTURY LINK/LUMEN	135 W ORION ST TEMPE, AZ 85283	KAREN BROWN	602-630-5476	KAREN.BROWN1@LUMEN.COM	2022-06-20	POSSIBLE CONFLICTS			
SOUTHWEST GAS	5705 S. KYRENE RD, TEMPE AZ 85283	ANDY SAKS	480-730-3857	ANDREW.SAKS@SWGAS.COM	2022-06-20	NO CONFLICTS			
SRP ELECTRIC	P.O. BOX 52025, PHOENIX, AZ 85072-2025	ANDRE BENAVIDEZ	602-236-3586	ANDRE.BENAVIDEZ@SRPNET.COM	2022-06-20	POSSIBLE CONFLICTS			

# LEGEND OF SYMBOLS

CONCRETE AREA EXISTING PAVEMENT RIGHT OF WAY LINE ADJACENT LOT —— FINISHED GROUND CONTOUR (1' INTERVAL) — EXISTING GROUND CONTOUR (1' INTERVAL) DRAINAGE FLOW ARROW BUILDING SETBACK LINE BOTTOM OF PROPOSED DRAINAGE DITCH BOTTOM OF EXISTING DRAINAGE DITCH (TO REMAIN) BOTTOM OF EXISTING DRAINAGE DITCH (DEMO) ———— 12"W ———— EXISTING 12" WATER LINE EXISTING FIRELINE EXISTING UNDERGROUND ELECTRIC LINE —— T (LUMEN) ——— EXISTING LUMEN DUCT PROPOSED WATER LINE EXISTING GUARD RAIL --- --- EXISTING EDGE OF PAVEMENT

ESTIMATED DIRT QUANTITIES	CY
RAW FG CUT	3,706
RAW FG FILL	9,222
NET RAW FILL	-5,516
FILL ADDITION FOR COMPACTION AND SHRINKAGE =0.15*340683/27	1,893
FILL REDUCTION FOR 8" THICK FLOOR =0.67*28776/27	714
FILL REDUCTION FOR WALKWAYS (4") =0.33*0//27	0
FILL REDUCTION FOR CONC. PVMT (8")	
=0.67*2727077/27	6,734
TOTAL CUT	11,154
TOTAL FILL	11,115
ADJUSTED NET CUT	39

# AS-BUILT CERTIFICATION:

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

RESIDENT ENGINEER/LAND SURVEYOR DAT

# FINISHED FLOOR GENERAL STATEMENT:

FINISHED FLOORS ARE SAFE FROM INUNDATION DURING A 100-YEAR, 24-HR PEAK RUN-OFF EVENT IF CONSTRUCTED IN ACCORDANCE WITH APPROVED PLANS.

# <u>STANDARDS</u>

CITY OF MESA ENGINEERING DESIGN STANDARDS MANUAL (2021).

MCDOT APPROVAL

MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION DA

MCESD APPROVAL

MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT

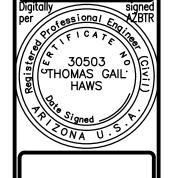
MARICOPA INC.
RIZONA NONPROFIT CORPORATION
859 N LAFAYETTE
MESA, ARIZONA 85201

AN ARIZONA NONPROFIT
859 N LAFAYE
MESA, ARIZONA
(480) 201-54

SE -PHASE 1 SOUTH PARKING EXPANASE 2 PARKING IMPROVEMENTS

PROJECT:
HAPPY W

Know what's below.



JOB NO.
M21040
DRAWN BY: SWN
SHEET NO.

# CITY OF MESA GENERAL REQUIREMENT 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 PERMIT SERVICES SECTION OF THE BUILDING SAFETY DIVISION AT (480) 644-4BSD OR AT HTTP://WWW.MESAAZ.GOV/DEVSUSTAIN/CONSTRUCTIONPERMITS.ASPX
- 3. 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.
- 4. 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 CONSTRUCTION SERVICES AT (480) 644-2253 OF INTENT TO BEGIN AND REQUEST/SCHEDULE PRELIMINARY FIELD REVIEW AT THE PROJECT SITE WITH THE CITY OF MESA ENGINEERING CONSTRUCTION INSPECTOR. FAILURE TO PROVIDE PROPER INSPECTION NOTIFICATION AS PRESCRIBED ABOVE. SHALL RESULT IN THIS PERMIT BECOMING INVALID AND WORK BEING STOPPED.
- 5. CONTRACTOR'S SHALL COMPLY WITH THE REQUI REMENTS 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.
- 6. 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.
- 7. THE CONTRACTOR SHALL OBTAIN AN EARTH-MOVING PERMIT FROM THE MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT AND SHALL COMPLY WITH ITS REQUIREMENTS FOR DUST CONTROL.
- 8. 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 OR EASEMENT HAVE BEEN CORRECTLY PLOTTED/SHOWN.
- 9. 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 ENGINEERING DEPARTMENT - CONSTRUCTION SERVICES SECTION.
- 10. THE REGISTERED ENGINEER OR LAND SURVEYOR SHALL CERTIFY THAT THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION BETWEEN UTILITIES WITHIN PUBLIC RIGHT-OF-WAY OR EASEMENTS HAS BEEN MAINTAINED AS REQUIRED BY LAW OR POLICY.
- 11. THE DEVELOPER SHALL PROVIDE ALL CONSTRUCTION STAKING FOR THE PROJECT.
- 12. 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.
- 13. 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.
- 14. 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.
- 15. CONTRACTORS SHALL COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AND BARRICADING PER THE CURRENT CITY OF MESA TRAFFIC BARRICADE MANUAL.
- 16. 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.
- 17. IF DURING THE CONSTRUCTION OF A PUBLIC FACILITY, THE CONTRACTOR FAILS TO OR IS UNABLE TO COMPLY WITH A REQUEST OF THE ENGINEERING CONSTRUCTION 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.

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

- 1. 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 LANDSCAPING.
- 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.
- 5. 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 — FIELD SUPERVISING ENGINEER.
- 6. A STANDARD RESIDENTIAL DRIVEWAY APPROACH SHALL BE CONSTRUCTED TO A MAXIMUM WIDTH OF 30 FEET UNLESS SPECIAL APPROVAL HAS BEEN OBTAINED.

# A.D.E.Q. NOTES

- 1. WATER LINE AND FITTINGS SHALL HAVE NSF-PW SEAL.
- 2. CONSTRUCTION MATERIALS USED IN THE WATER SYSTEM SHALL BE LEAD FREE AS DEFINED AT A.A.C. R18-4-504 AND A.A.C. R18-4-101.
- 3. BACKFLOW PREVENTION ASSEMBLY SHALL MEET A.A.C. R18-4-115.
- 4. MINIMUM DEPTH OF COVER OVER WATER LINES SHALL BE 3 FEET.
- 5. UNIFORM SLOPE TESTING OF TOTAL LENGTH OF SEWER LINE IS REQUIRED PER AAC R18-9-E301(D)(2)(K).

# 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 STANDARD SPECIFICATIONS.
- 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 OF MESA ENGINEERING CONSTRUCTION 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 BUILDING SAFETY - PERMIT SERVICES (480) - 644-4BSD FOR THE SPECIFIC PROCEDURE).

## CITY OF MESA PUBLIC WASTEWATER UTILITY NOTES

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

# CITY OF MESA NATURAL GAS UTILITY NOTES

- 1. 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 THE TRENCH.
- 3. 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
- 5. 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.
- 7. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL EXISTING UTILITIES AND AVOIDING DAMAGE TO SAME, CALL (602) 263-1100 FOR BLUE STAKES. 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

# 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):

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

## CITY OF MESA STORMWATER 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 BUILDING SAFETY DIVISION — BUILDING INSPECTIONS WHEN THE RETENTION AREA IS TO REMAIN PRIVATE PROPERTY AND TO ENGINEERING CONSTRUCTION SERVICES WHEN THE RETENTION AREA IS TO BECOME CITY OF MESA PROPERTY.
- 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 36HOUR 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 (A.D.E.Q.) IT IS THE OWNER'S RESPONSIBILITY TO REGISTER ALL DRYWELLS. AN AQUIFER PROTECTION PERMIT MAY BE REQUIRED BY A.D.E.Q. 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, CONTRACT OR 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 I (1) STREET LIGHT TECHNICIAN OR AN IMSA LEVEL I (1) TRAFFIC SIGNAL TECHNICIAN ON SITE DURI NG 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 QUANTITIES
- 6. CONDUITS SHOULD BE INSTALLED PRIOR TO DRIVEWAY INSTALLATIONS. IF CONDUIT IS INSTALLED AFTER DRIVEWAY INSTALLATION. THE CONTRACTOR SHALL BOR E UNDER THE DRIVEWAY, PER (M-18), FOR CONDUIT INSTALLATION. MEANDERING THE CONDUIT BEHIND THE ENTRANCE WILL NOT BE ALLOWED.
- 7. NOTE: THE LOCATION OF THE TRAFFIC SIGNAL FIBER OPTIC CONDUIT (TSFO) 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 & 93.4).
- 8. AREAS WHERE 24" OF COVER IS NOT POSSIBLE SEE CHAPTER 9 OF THE CITY OF MESA ENGINEERING & DESIGN STANDARDS; THESE AREAS SHALL BE IDENTIFIED ON PLANS. SUPPLY FULL CONFLICT DATA, INCLUDING TOP OF CURB, SIZE AND MATERIAL OF PIPE. INVERT ETC.
- 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 CALL 480-644-3178. EAST OF VAL VISTA 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 SALVAGE 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 OF MESA ENGINEERING CONSTRUCTION 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 OF MESA ENGINEERING CONSTRUCTION INSPECTOR.
- 12.THE CONTRACTOR IS TO USE UTMOST CAUTION WHILE WORKING AROUND ALL OVERHEAD AND UNDERGROUND UTILITIES. SPECIFICALLY ELECTRIC, GAS, WATER, SEWER AND FIBER OPTIC LINES.

# CITY OF MESA PUBLIC TRAFFIC SIGNAL NOTES

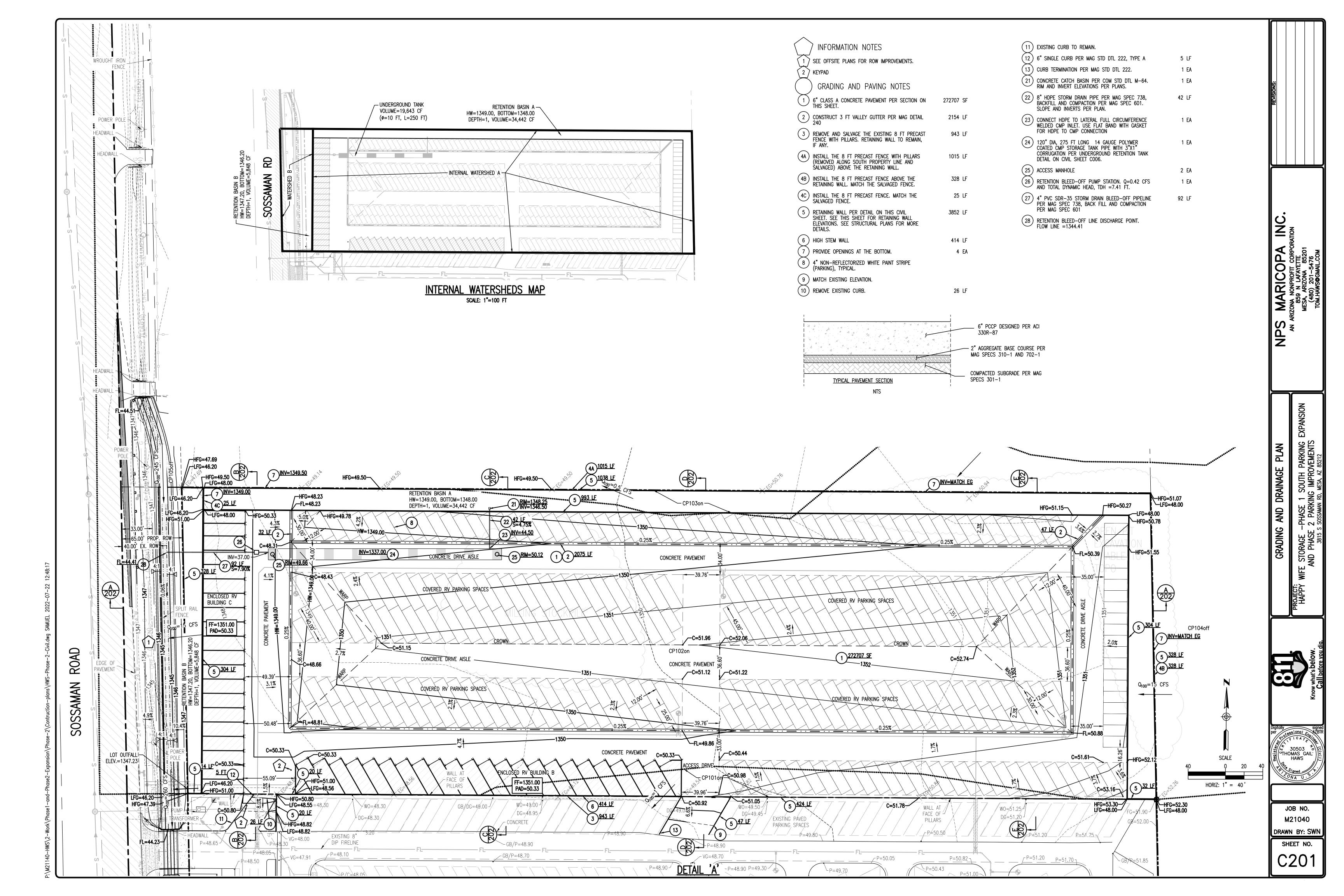
- 1. CONTRACTORS SHALL CONTACT THE CITY OF MESA TRAFFIC SIGNALS SUPERVISOR (480) 644-3122 PRIOR TO ANY WORK WITHIN THE VICINITY OF OR THROUGH A SIGNALIZED INTERSECTION, WHICH WILL CHANGE TRAFFIC LANE PATTERNS.
- 2. CONTRACTORS ARE ADVISED THAT DAMAGE TO ANY TRAFFIC SIGNAL EQUIPMENT (DETECTOR LOOPS, PULLBOXES, CONDUIT, ETC.) AS A RESULT OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AND 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 (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", A 6" SLURRY CAP IS REQUIRED. THE MINIMUM ALLOWABLE DEPTH FOR TSFO CONDUITS IS 24". THE CITY OF MESA ENGINEERING CONSTRUCTION INSPECTOR SHALL BE NOTIFIED 48 HOURS PRIOR TO INSTALLING CONDUITS WHEN ANY VARIATION TO DETAIL (M-93.3 & M-93.4) IS REQUIRED. IF TSFO CONDUIT IS REQUIRED TO MEANDER VERTICALLY OR HORIZONTALLY, NO CONDUIT BEND SHALL EXCEED 45 DEGREES.
- 5. TSFO CONDUITS SHALL BE INSTALLED 48" DEEP IN A JOINT TRENCH WITH STREET LIGHT CONDUIT PER (M-93.3 & M-93.4).

MARICOPA IZONA NONPROFIT CORPOR

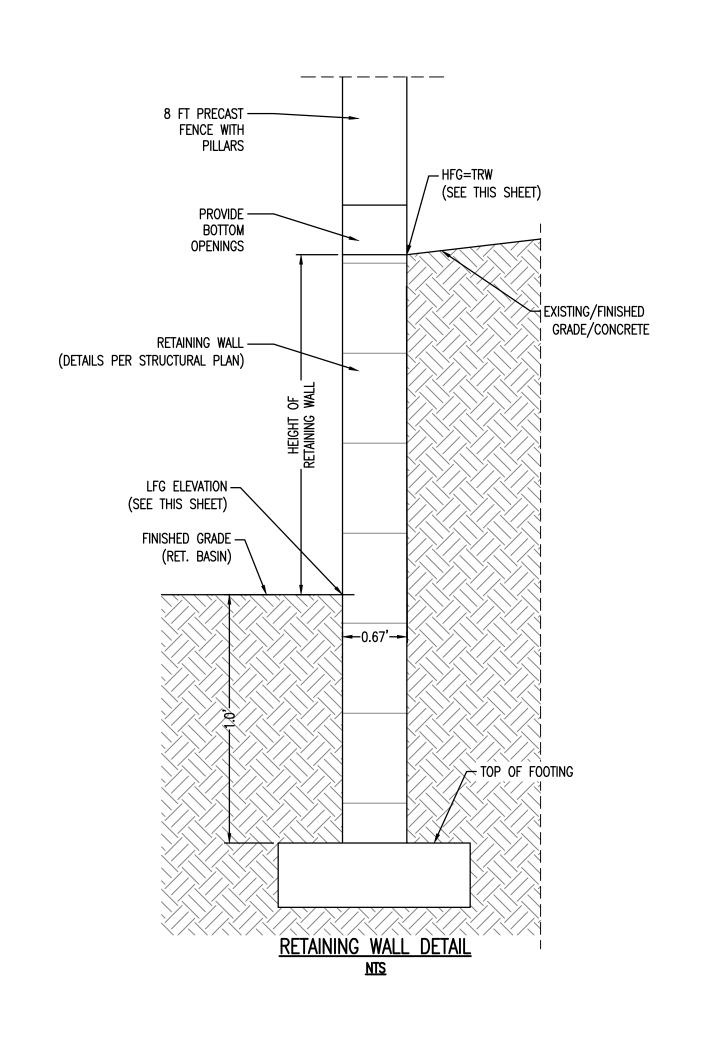


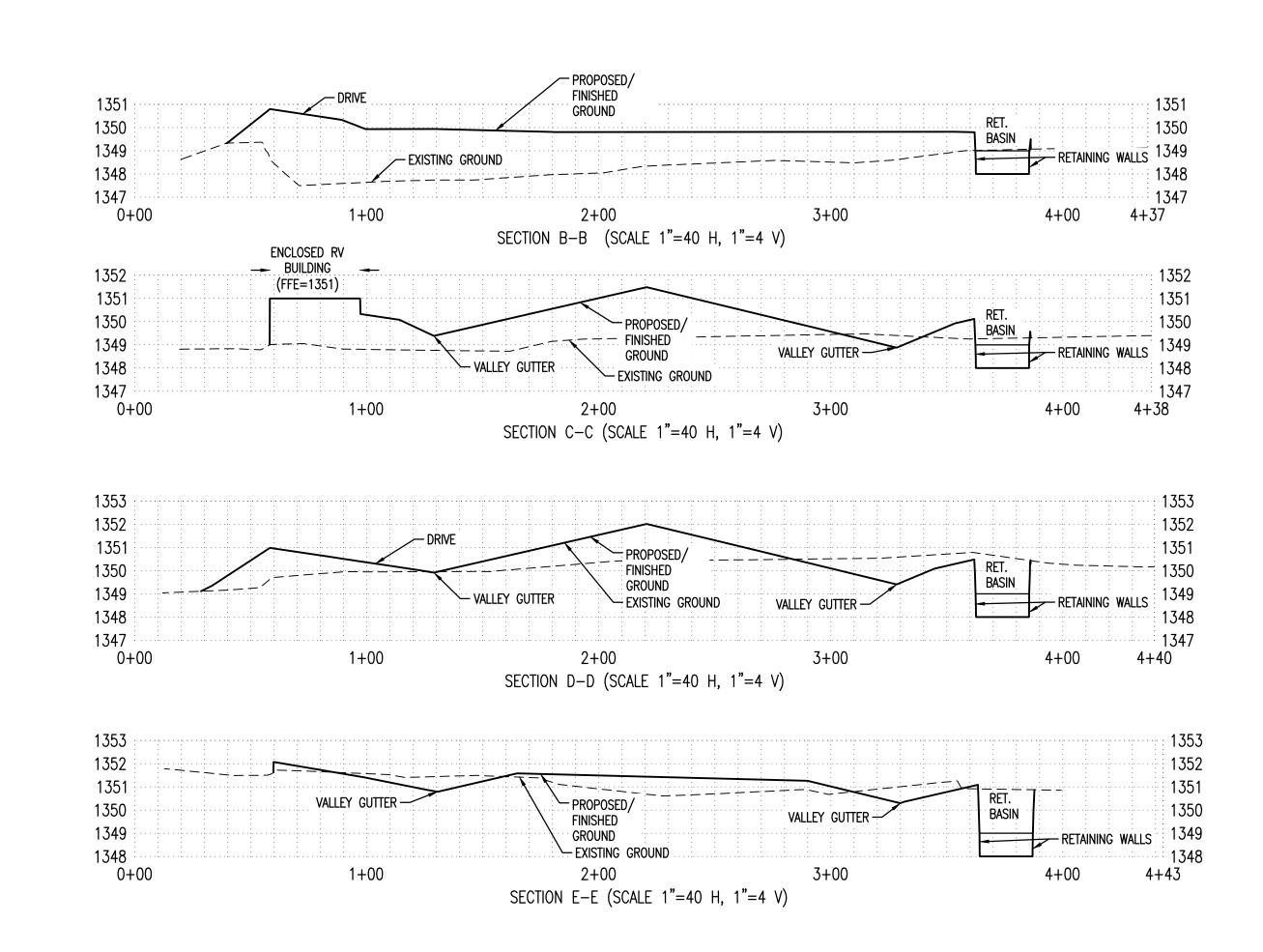
JOB NO. M21040 DRAWN BY: SWI

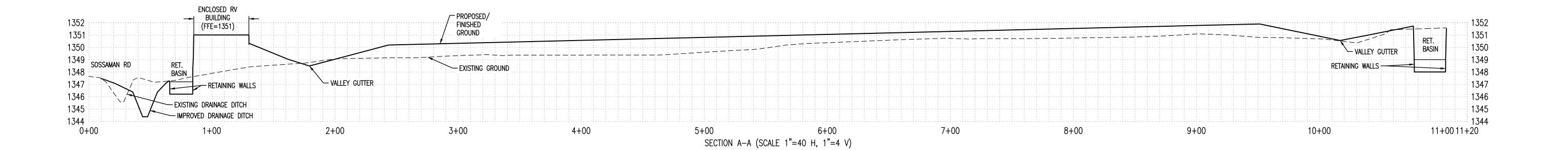
SHEET NO.



# GRADING AND DRAINAGE SECTIONS FOR HAPPY WIFE STORAGE, MESA, AZ







REVISIONS:

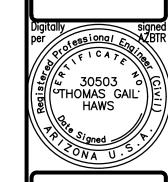
MARICOPA INC.

ARIZONA NONPROFIT CORPORATION
859 N LAFAYETTE
MESA, ARIZONA 85201
(480) 201-5476
TOM LAWS 60MM COM

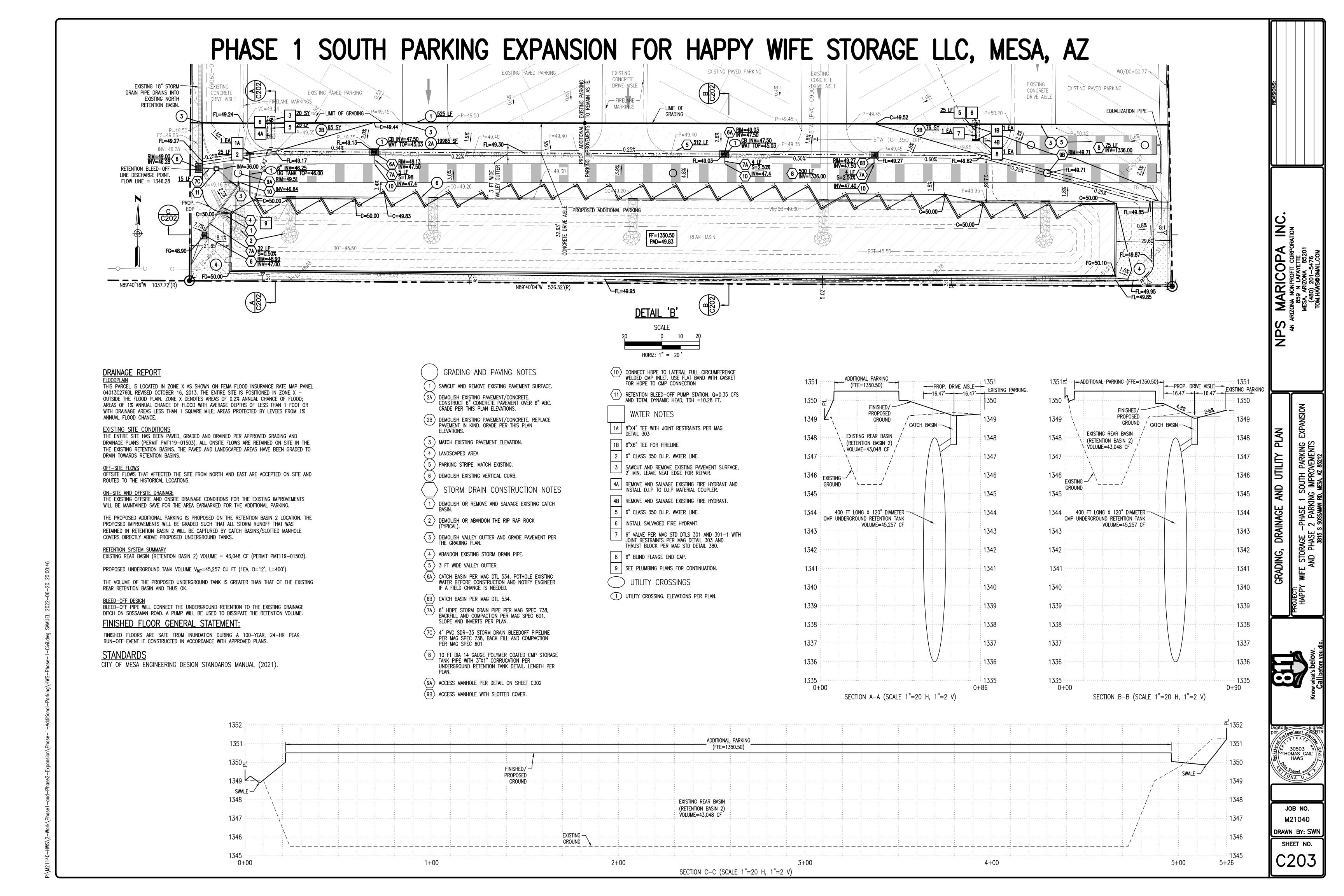
PARKING EXPANSION

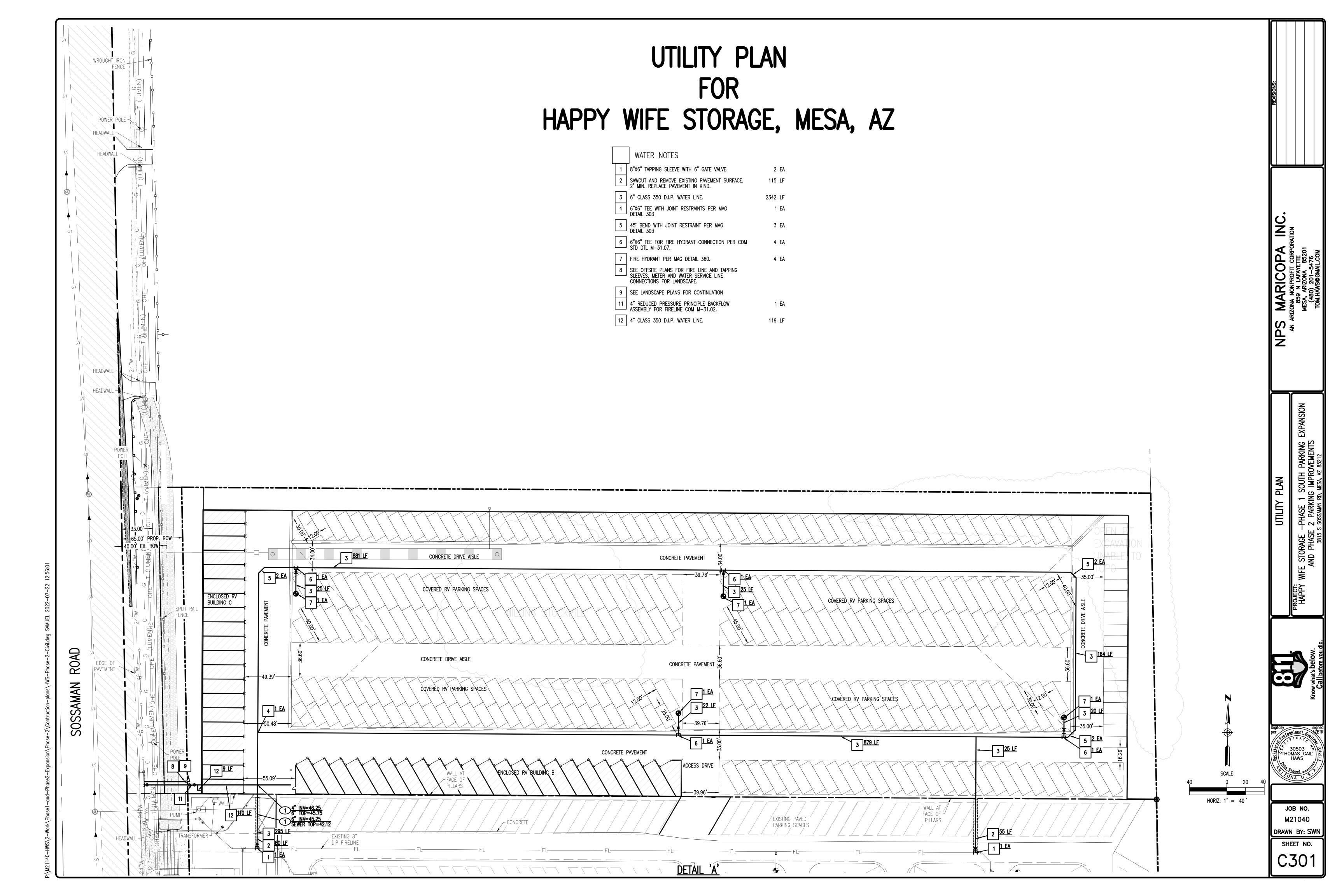
JAPPY WIFE STORAGE —PHASE 1 SOUTH PARKING
AND PHASE 2 PARKING IMPROVEMENTS

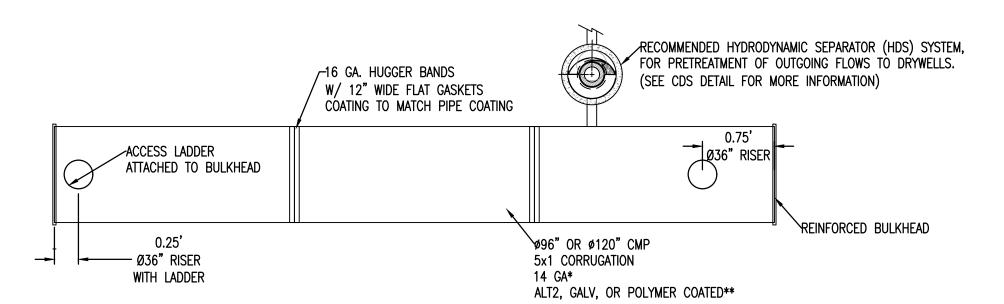




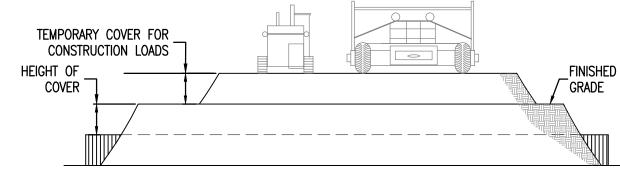
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- ALL INFORMATION ON THIS SHEET IS FOR A TYPICAL DETENTION SYSTEM AND IS SUBJECT TO CHANGE ON A PROJECT BASIS
- \* GAUGE TO BE SELECTED BY ENGINEER OF RECORD (EOR). 14 GA IS SUGGESTED FOR LARGE DIAMETERS
  \*\* COATING TO BE SELECTED BY EOR BASED ON SOIL TYPES
- \*\*\* WELDS TO CONFORM TO AASHTO REGULATION
- TYPICAL ACCESS RISER DIAMETERS 30"Ø, 36"Ø AND 48"Ø SEE MUNICIPALITY STANDARDS FOR DIAMETER DESIGN

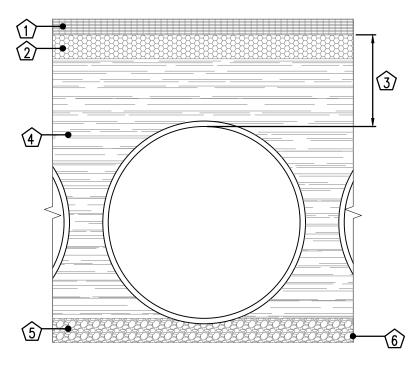


CONSTRUCTION LOADS

FOR TEMPORARY CONSTRUCTION VEHICLE LOADS, AN EXTRA AMOUNT OF COMPACTED COVER MAY BE REQUIRED OVER THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUMS FOR NORMAL HIGHWAY TRAFFIC.

PIPE SPAN,	AXLE LOADS (kips)					
INCHES	18-50	50-75	75–110	110-150		
	MINIMUM COVER (FT)					
12-42	2.0	2.5	3.0	3.0		
48-72	3.0	3.0	3.5	4.0		
78-120	3.0	3.5	4.0	4.0		
126-144	3.5	4.0	4.5	4.5		

\*MINIMUM COVER MAY VARY, DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.



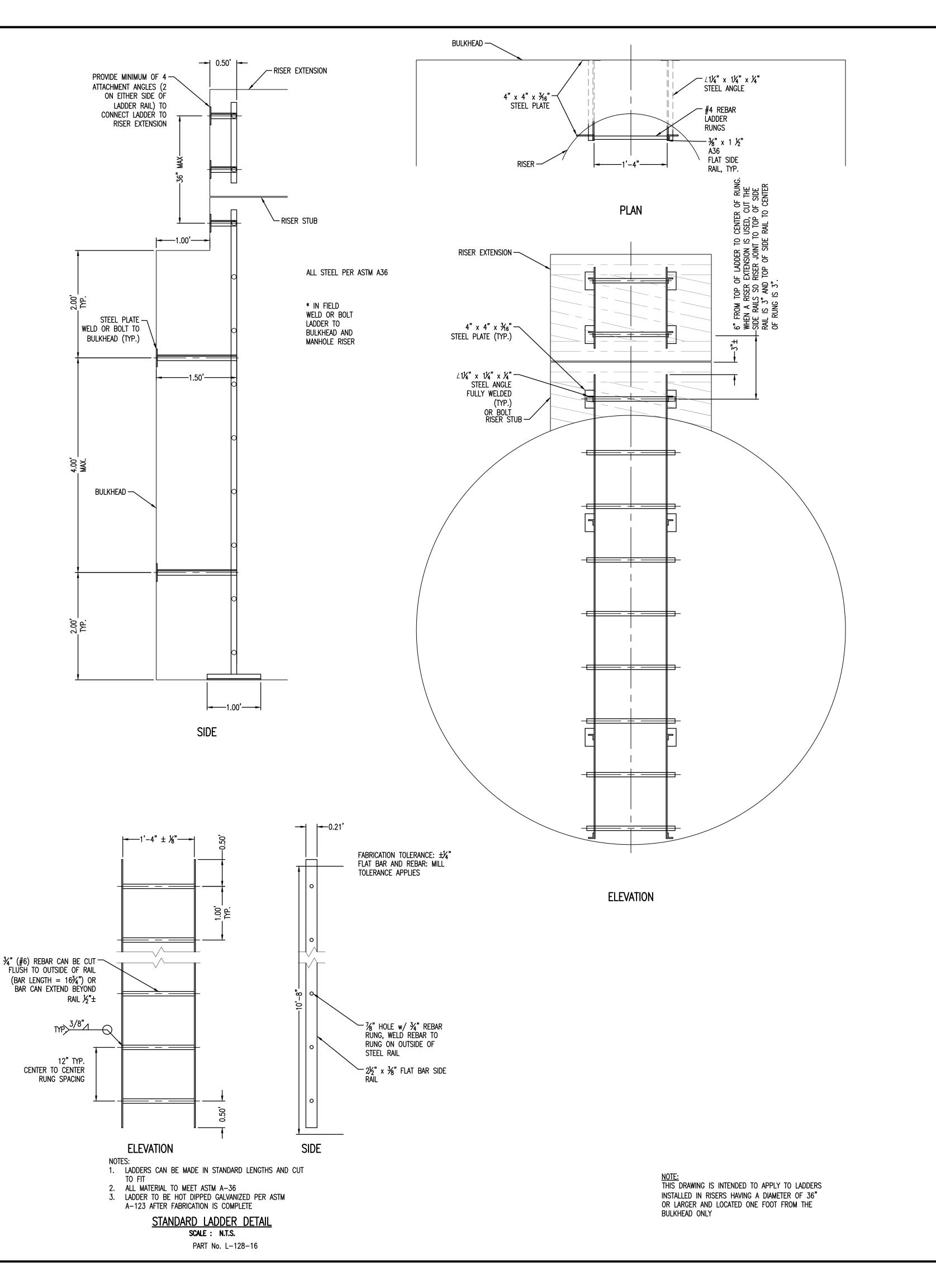
# KEY 🔷

- 1. RIGID OR FLEXIBLE PAVEMENT
- 2. GRANULAR ROAD BASE
- 3. 12" MIN. FOR DIAMETERS THROUGH 96"
  18" MIN. FOR DIAMETERS FROM 102"
  AND LARGER MEASURED TO TOP OF RIGID
  OR BOTTOM OF FLEXIBLE PAVEMENT.
- 4. SELECT GRANULAR FILL PER AASHTO M145
  A1, A2 OR A3, OR APPROVED EQUAL.
  PLACED IN 8" LIFTS (COMPACTED TO MIN.
  90% STANDARD DENSITY PER AASHTO T99.)
  INCLUDING 3/8" MINUS ANGULAR STONE
- 5. GRANULAR BEDDING, ROUGHLY SHAPED TO FIT THE BOTTOM OF PIPE, 4" TO 6" IN DEPTH
- 6. CONTECH C-40 OR C-45 NON-WOVEN GEOTEXTILE REQUIRED TO WRAP ENTIRE TRENCH.

FOUNDATION/BEDDING PREPARATION
PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND BROUGHT BACK TO THE GRADE WITH A FILL MATERIAL AS APPROVED BY THE ENGINEER. ONCE THE FOUNDATION PREPARATION IS COMPLETE, 4" - 6" OF A WELL-GRADED GRANULAR MATERIAL SHALL BE PLACED AS THE BEDDING.

BACKFILL
THE BACKFILL SHALL BE AN A1, A2 OR A3 GRANULAR FILL PER AASHTO
M145, OR A WELL-GRADED GRANULAR FILL AS APPROVED BY THE SITE ENGINEER
(SEE INSTALLATION GUIDELINES). THE MATERIAL SHALL BE PLACED IN 8"
LOOSE LIFTS AND COMPACTED TO 90% AASHTO T99 STANDARD PROCTOR
DENSITY. WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO
MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND
AROUND THE PIPE HAUNCHES. BACKFILL SHALL BE PLACED SUCH THAT THERE IS
NO MORE THAN A TWO LIFT (16") DIFFERENTIAL BETWEEN ANY OF THE PIPES AT
ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHALL BE ADVANCED
ALONG THE LENGTH OF THE DETENTION SYSTEM AT THE SAME RATE TO AVOID
DIFFERENTIAL LOADING ON THE PIPE.

OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS, AS APPROVED BY SITE ENGINEER.



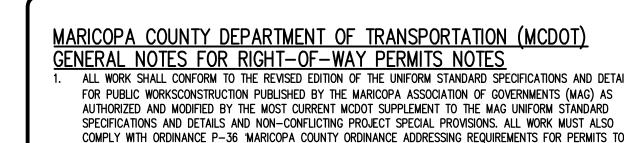
P:\M21140-HWS\2-Work\Phase1-and-Phase2-Expansion\Phase-2\Contruction-plans\HWS-Phase-2-Civil.dwa SAMUEL 2022-07-2

JOB NO.

SHEET NO.

M21040

C302



CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY MCDOT. APPROVAL OF THESE PLANS IS FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT MCDOT FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, THE MCDOT ROADWAY DESIGN MANUAL, OR OTHER APPLICABLE DESIGN STANDARDS.

WORK IN RIGHT-OF-WAY WITHIN UNINCORPORATED MARICOPA COUNTY." ANY EXCEPTIONS MUST RECEIVE EXPLICIT APPROVAL FROM MCDOT AND SHALL BE IDENTIFIED ON THE PLANS AS HAVING EXPLICIT APPROVAL

THE MOST CURRENT APPROVED SET OF PLANS SHALL BE ON THE SITE DURING CONSTRUCTION AND AVAILABLE

ALL BOX CULVERTS CONSTRUCTED IN THE PUBLIC RIGHT-OF-WAY SHALL COMPLY WITH ARIZONA DEPARTMENT OF

TRANSPORTATION (ADOT) LATEST DESIGN SPECIFICATIONS AND STANDARDS. CONTRACTOR TO OBTAIN MCDOT PERMITS PRIOR TO CONSTRUCTION WITHIN COUNTY RIGHT-OF-WAY. AND ALL NECESSARY PERMITS FROM OTHER AGENCIES AND FROM LOCAL GOVERNMENTS FOR WORK WITHIN THEIR

CONTRACTOR SHALL NOTIFY THE ASSIGNED MCDOT INSPECTOR LISTED ON PERMIT AT LEAST 24 HOURS IN

CONTRACTOR PERFORMING CONSTRUCTION OR EXCAVATING OPERATIONS IS RESPONSIBLE FOR LOCATING AND RELOCATING ALL UTILITIES IN CONFLICT AT NO EXPENSE TO MARICOPA COUNTY. THE CONTRACTOR SHALL CONTACT ARIZONA 811 PRIOR TO BEGINNING CONSTRUCTION.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS FOR EARTH MOVING FROM MARICOPA COUNTY AIR QUALITY DEPARTMENT'S DUST COMPLIANCE DIVISION PRIOR TO CONDUCTING EXCAVATION OPERATIONS. A COPY OF THE PERMIT AND DUST CONTROL PLAN SHALL BE SUBMITTED TO THE COUNTY ENGINEER PRIOR TO COMMENCEMENT OF ANY EARTHMOVING ACTIVITIES.

PRIOR TO CONDUCTING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL OBTAIN FROM THE ARIZONA STATE HISTORICAL PRESERVATION OFFICER RECOMMENDATIONS REGARDING THE NEED FOR CULTURAL RESOURCES (ARCHAEOLOGICAL) CLEARANCE. ALL DISCOVERIES OF HUMAN REMAINS, CULTURAL ARTIFACTS, OR PALEONTOLOGICAL REMAINS SHALL BE REPORTED TO THE ARIZONA STATE MUSEUM AND MCDOT. UPON DISCOVERY, CONTRACTOR SHALL CEASE OPERATIONS IN THE VICINITY OF THE FIND AND PROTECT THE DISCOVERY

10. EXCEPT UNDER EMERGENCY CONDITIONS, ROADS SHALL NOT BE CLOSED FOR CONSTRUCTION ACTIVITY UNLESS PRIOR APPROVAL IS OBTAINED FROM THE MCDOT TRANSPORTATION DIRECTOR.

11. PRIOR TO MOVING OR DESTROYING PROTECTED NATIVE PLANT SPECIES, THE CONTRACTOR SHALL FILE A FORMAL NOTICE OF INTENT WITH THE ARIZONA DEPARTMENT OF AGRICULTURE NATIVE PLANTS.

12. PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK, BASE COURSE AND WEARING SURFACE, A PAVEMENT VERIFICATION REPORT SUBMITTAL IS REQUIRED TO BE SUBMITTED TO MCDOT FOR REVIEW AND APPROVAL. IF SUBGRADE STABILIZATION IS REQUIRED. THE AREA STABILIZED SHALL BE FROM BACK OF SIDEWALK TO BACK OF SIDEWALK AND MATCH THE STABILIZATION DEPTH OF THE PAVEMENT STRUCTURE. 13. ASPHALT MIX DESIGNS SHALL BE SUBMITTED TO MCDOT A MINIMUM OF TWO BUSINESS DAYS PRIOR TO PLACING ANY ASPHALT COURSES. (TRENCH WORK EXCLUDED.) ASPHALT MIX DESIGNS MUST BE APPROVED PRIOR TO

PAVING ACTIVITIES. ALL PAVED TURNOUTS SHALL HAVE THE SAME ASPHALT AND BASE REQUIREMENTS AS THI ADJACENT ROADWAY UNLESS NOTED OTHERWISE. 14. ALL ASPHALT CONCRETE PAVEMENT OF LOCAL AND MINOR COLLECTOR ROADS WITH A LONGITUDINAL GRADE LESS THAN 5% SHALL RECEIVE A PRESERVATIVE SEAL ("FILLED" ASPHALT SEALER) IN ACCORDANCE WITH SECTIONS

15. EXCEPT FOR ARAC MIXES, ALL OTHER AC MIXES SHALL BE SUPERPAVE/GYRATORY TYPE UNLESS APPROVED BY MCDOT. AC MIX DESIGN USED ON LOCAL AND MINOR COLLECTOR STREETS SHALL BE FOR LOW TRAFFIC CONDITION. NOMINAL SIZE TO THICKNESS RATIO SHALL NOT EXCEED 1:3. THE NOMINAL SIZE DESIGNATION FOR THE SURFACE COURSE ON URBAN ROADWAYS SHALL BE A 1/2" MIX, UNLESS APPROVED BY MCDOT.

334 AND 718.3 OF THE MAG UNIFORM STANDARD SPECIFICATIONS.

16. ALL COMPACTION AND BACKFILL WITHIN COUNTY RIGHT-OF-WAY SHALL CONFORM TO THE MCDOT SUPPLEMENT TO MAG SPECIFICATION SECTION 601. BACKFILL UNDER EXISTING PAVEMENT, CURB AND GUTTER, ROADWAY SHOULDERS, AND UNPAVED ROADWAYS SHALL CONSIST OF ONE-HALF (1/2) OR ONE SACK CLSM. UNPAVED ROADWAY AREAS INCLUDE THE TRAVELLED WAY PLUS FIVE FEET BEYOND THE TRAVELLED WAY.

17. ALL STRUCTURES, SUCH AS MANHOLES, VALVE BOX & COVERS, AND MONITORING WELLS MUST BE MARKED WITH AT LEAST TWO REFLECTIVE FLEXIBLE POSTS WHEN STRUCTURES ARE LOCATED OUTSIDE THE TRAVELED WAY AND WITHIN THE RIGHT-OF-WAY. (APPLIES ONLY WHEN THERE IS NO CURB.) ALL CLEAR ZONE HAZARDS SHALL BE MITIGATED IN A MANOR APPROVED BY MCDOT AT NO COST TO THE COUNTY. 18. PAVEMENT WIDENING AND PAVEMENT REPLACEMENT SHALL CONFORM TO THE REQUIREMENTS OF MAG

SPECIFICATION SECTION 336 AND THE MCDOT SUPPLEMENT THERETO, PAVEMENT CUTS SHALL NOT BE LOCATED WITHIN A LANE WHEEL PATH. THE LANE WHEEL PATH IS THE ENTIRE LANE WIDTH EXCEPT THE AREA WITHIN ONE FOOT OF A LANE LINE STRIPE AND EXCEPT THE CENTER TWO FEET OF THE TRAVEL LANE. 19. ALL EXISTING PAVEMENT MARKINGS, TRAFFIC SIGNS AND SIGNAL EQUIPMENT TO BE REMOVED, REPLACED,

RELOCATED OR REPAIRED DUE TO CONTRACTOR'S WORK WILL BE DONE BY THE CONTRACTOR AT THEIR EXPENSE. ARRANGEMENTS CAN BE MADE FOR DELIVERY BY CALLING (602) 506-8662. ALL NEW STREET NAME SIGNS SHALL BE PROVIDED AND INSTALLED BY THE PERMITTEE AT NO EXPENSE TO MARICOPA COUNTY.

20. ALL PERMITTED CONSTRUCTION IS SUBJECT TO INSPECTION AND IS REQUIRED TO MEET ALL APPLICABLE STANDARDS PRIOR TO THE RELEASE OF THE CORRESPONDING BOND.

THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY TO A CONDITION FOUAL TO OR BETTER THAN EXISTING CONDITIONS PER MAG 107.9. DISPOSAL OF ALL WASTE MATERIAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

22. CHIPPED, CRACKED, OR IMPRINTED CURB, GUTTER, OR SIDEWALK IS NOT PERMITTED. CONCRETE PATCHING OF CURB, GUTTER, AND SIDEWALK IS NOT PERMITTED.

23. THE PERMITEE'S ENGINEER OF RECORD IS REQUIRED TO CERTIFY SUBDIVISION CONSTRUCTION IN ACCORDANCE WITH THE MCDOT SUBDIVISION INSPECTION GUIDELINES.

# **DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT. THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION R4-30-301 OF THE RULES OF THE ARIZONA STATE BOARD OF TECHNICAL REGISTRATION, AND THAT THE DESIGN IS CONSISTENT WITH

I UNDERSTAND THAT THE REVIEW OF THE PROJECT DRAWINGS AND SPECIFICATIONS BY CITY OF MESA IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

# **AS-BUILT CERTIFICATION:**

I HEREBY CERTIFY THAT I HAVE REVIEWED THE 'AS-BUILT' FOR THE ABOVE REFERENCED PROJECT AND CERTIFY THAT THE PROJECT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED IMPROVEMENT PLANS AND REVISIONS THAT IT WILL FUNCTION AS DESIGNED AND PERMITTED.

REGISTERED CIVIL ENGINEER

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

REGISTERED SURVEYOR

# MCDOT APPROVAL

MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION

# PHASE 2 OFFSITE IMPROVEMENTS PLANS HAPPY WIFE STORAGE, MESA, AZ

# PROJECT DATA

ASSESSOR'S PARCEL NUMBER 304-30-007M 3815 S SOSSAMAN RD, PROJECT ADDRESS MESA, AZ 85212 LOT AREA 348,875 SQ.FT. = 8.01 AC

PROPOSED PARKING

ROAD DESIGN DATA

SOSSAMAN ROAD CLASSIFICATION URBAN/MINOR ARTERIAL LEVEL DESIGN SPEED 45 MPH AVERAGE DAILY TRAFFIC 9500/VPD 24 FT - 28 FT

OWNER

REDPOINT CONTRACTING HOLDINGS LLC 39506 N DAISAY MOUNTAIN, PHOENIX, AZ 85086

**ENGINEER** 

NPS MARICOPA INC 859 NORTH LAFAYETTE' MESA, AZ 85201 TEL: 480.201.5476 EMAIL: TOM.HAWS@GMAIL.COM

TIM QUIGLEY TIM@TQDIAMONDS.COM 608-444-4000

SURVEYOR D2 SURVEYING 24468 N. CORN ST. FLORENCE, AZ 85132

(480) 221-1365

DATE SURVEYED NOV 6, 2021

DRAINAGE REPORT SEE SEPARATE DRAINAGE REPORT PROVIDED AS PART OF THIS SUBMITTAL.

ABBREVIATIONS LIST ASSESSOR PARCEL NUMBER AGGREGATE BASE COURSE BACK OF VERTICAL CURB CONCRETE CUBIC FEET CITY OF MESA EXISTING FINISHED FLOOR ELEVATION FLOW LINE GUTTER INVERT ELEVATION LINEAR FOOT MARICOPA COUNTY RECORDER PAVEMENT PROPERTY LINE RIGHT OF WAY STORM DRAIN SQUARE FEET TEMPORARY BENCH MARK TOP OF CURB

- OFFSITE COVER SHEET OFFSITE GENERAL NOTES C803 - OFFSITE GRADING AND DRAINAGE PLAN WATER PLAN

CONCRETE AREA **EXISTING PAVEMENT** 

— — 1346— — EXISTING GROUND CONTOUR (1' INTERVAL) DRAINAGE FLOW ARROW

BOTTOM OF PROPOSED DRAINAGE DITCH BOTTOM OF EXISTING DRAINAGE DITCH (TO REMAIN) BOTTOM OF EXISTING DRAINAGE DITCH (DEMO) EXISTING SEWER LINE EXISTING 24" WATER LINE

EXISTING FENCE EXISTING UNDERGROUND ELECTRIC LINE

PROPOSED GUARD RAIL EXISTING GUARD RAIL

# LEGEND OF SYMBOLS

RIGHT OF WAY LINE

RD

SOSSAMAN

EXISTING 12" WATER LINE EXISTING GAS LINE --- OHE --- OHE --- EXISTING OVERHEAD ELECTRIC LINE ——— T (LUMEN) ———— EXISTING LUMEN DUCT PROPOSED WATER LINE

— — — EXISTING EDGE OF PAVEMENT

E ELLIOT RD THIS PLAN GUADALUPE ✓ ON-SITE (PHASE 2) ON-SITE (PHASE 1) E WARNER RD

**VICINITY MAP** 

SCOTTSDALE

PROP. PHASE 2 PARKING IMPROVEMENTS SEPARATE SUBMITTAL (SEE ONSITE PLANS) — CP103on —

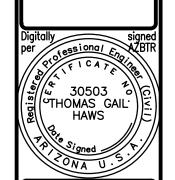
EXISTING PHASE 1 PARKING IMPROVEMENTS

SEE APPROVED PLANS (PMT119-01503)

PROP. PHASE 1 SOUTH PARKING EXPANSION

SEPARATE SUBMITTAL (SEE ONSITE PLANS)





JOB NO. M21140 DRAWN BY: SWI

SHEET NO. C801

UTILITY COORDINATION UTILITY COMPANY CONTACT SUBMITTED RESPONSE 135 W ORION ST TEMPE, AZ 85283 KAREN BROWN 602-630-5476 KAREN.BROWN1@LUMEN.COM 2022-06-20 POSSIBLE CONFLICTS CENTURY LINK/LUMEN 480-730-3857 ANDREW.SAKS@SWGAS.COM SOUTHWEST GAS 5705 S. KYRENE RD, TEMPE AZ 85283 ANDY SAKS 2022-06-20 NO CONFLICTS P.O. BOX 52025, PHOENIX, AZ 85072-2025 | ANDRE BENAVIDEZ | 602-236-3586 | ANDRE,BENAVIDEZ@SRPNET.COM 2022-06-20 POSSIBLE CONFLICTS SRP ELECTRIC

# CITY OF MESA GENERAL REQUIREMENT 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 PERMIT SERVICES SECTION OF THE BUILDING SAFETY DIVISION AT (480) 644-4BSD OR AT HTTP://www.mesaaz.gov/devsustain/construction/permits.aspx
- 3. 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.
- 4. 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 CONSTRUCTION SERVICES AT (480) 644–2253 OF INTENT TO BEGIN AND REQUEST/SCHEDULE PRELIMINARY FIELD REVIEW AT THE PROJECT SITE WITH THE CITY OF MESA ENGINEERING CONSTRUCTION INSPECTOR. FAILURE TO PROVIDE PROPER INSPECTION NOTIFICATION AS PRESCRIBED ABOVE, SHALL RESULT IN THIS PERMIT BECOMING INVALID AND WORK BEING STOPPED.
- 5. CONTRACTOR'S SHALL COMPLY WITH THE REQUI REMENTS 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.
- 6. 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.
- 7. THE CONTRACTOR SHALL OBTAIN AN EARTH-MOVING PERMIT FROM THE MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT AND SHALL COMPLY WITH ITS REQUIREMENTS FOR DUST CONTROL.
- 8. 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 OR EASEMENT HAVE BEEN CORRECTLY PLOTTED/SHOWN.
- 9. 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 ENGINEERING DEPARTMENT CONSTRUCTION SERVICES SECTION.
- 10. THE REGISTERED ENGINEER OR LAND SURVEYOR SHALL CERTIFY THAT THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION BETWEEN UTILITIES WITHIN PUBLIC RIGHT-OF-WAY OR EASEMENTS HAS BEEN MAINTAINED AS REQUIRED BY LAW OR POLICY.
- 11. THE DEVELOPER SHALL PROVIDE ALL CONSTRUCTION STAKING FOR THE PROJECT.
- 12. 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.
- 13. 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.
- 14. 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.
- 15. CONTRACTORS SHALL COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AND BARRICADING PER THE CURRENT CITY OF MESA TRAFFIC BARRICADE MANUAL.
- 16. 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.
- 17. IF DURING THE CONSTRUCTION OF A PUBLIC FACILITY, THE CONTRACTOR FAILS TO OR IS UNABLE TO COMPLY WITH A REQUEST OF THE ENGINEERING CONSTRUCTION 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.

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

- 1. 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 LANDSCAPING.
- 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.
- 5. 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 FIELD SUPERVISING ENGINEER.
- 6. A STANDARD RESIDENTIAL DRIVEWAY APPROACH SHALL BE CONSTRUCTED TO A MAXIMUM WIDTH OF 30 FEET UNLESS SPECIAL APPROVAL HAS BEEN OBTAINED.

# A.D.E.Q. NOTES

- 1. WATER LINE AND FITTINGS SHALL HAVE NSF-PW SEAL.
- 2. CONSTRUCTION MATERIALS USED IN THE WATER SYSTEM SHALL BE LEAD FREE AS DEFINED AT A.A.C. R18-4-504 AND A.A.C. R18-4-101.
- 3. BACKFLOW PREVENTION ASSEMBLY SHALL MEET A.A.C. R18-4-115.
- 4. MINIMUM DEPTH OF COVER OVER WATER LINES SHALL BE 3 FEET.
- 5. UNIFORM SLOPE TESTING OF TOTAL LENGTH OF SEWER LINE IS REQUIRED PER AAC R18-9-E301(D)(2)(K).

# 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 STANDARD SPECIFICATIONS.
- 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 OF MESA ENGINEERING CONSTRUCTION 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 CALLED PAIR
- 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 BUILDING SAFETY PERMIT SERVICES (480)— 644—4BSD FOR THE SPECIFIC PROCEDURE).

### <u>CITY OF MESA PUBLIC WASTEWATER UTILITY NOTES</u>

- 1. 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 30INCH FRAME AND COVER. STEPS SHALL NOT BE INSTALLED WITHIN THE MANHOLE.

#### CITY OF MESA NATURAL GAS UTILITY NOTES

- 1. 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 THE TRENCH.
- 3. 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.
- 5. 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.
- 7. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL EXISTING UTILITIES AND AVOIDING DAMAGE TO SAME. CALL (602) 263-1100 FOR BLUE STAKES. 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):

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

# CITY OF MESA STORMWATER 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 BUILDING SAFETY DIVISION BUILDING INSPECTIONS WHEN THE RETENTION AREA IS TO REMAIN PRIVATE PROPERTY AND TO ENGINEERING CONSTRUCTION SERVICES WHEN THE RETENTION AREA IS TO BECOME CITY OF MESA PROPERTY.
- 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 36HOUR 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 (A.D.E.Q.) IT IS THE OWNER'S RESPONSIBILITY TO REGISTER ALL DRYWELLS. AN AQUIFER PROTECTION PERMIT MAY BE REQUIRED BY A.D.E.Q. 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, CONTRACT OR 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 I (1) STREET LIGHT TECHNICIAN OR AN IMSA LEVEL I (1) TRAFFIC SIGNAL TECHNICIAN ON SITE DURI NG 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 QUANTITIES.
- 6. CONDUITS SHOULD BE INSTALLED PRIOR TO DRIVEWAY INSTALLATIONS. IF CONDUIT IS INSTALLED AFTER DRIVEWAY INSTALLATION, THE CONTRACTOR SHALL BOR E UNDER THE DRIVEWAY, PER (M-18), FOR CONDUIT INSTALLATION. MEANDERING THE CONDUIT BEHIND THE ENTRANCE WILL NOT BE ALLOWED.
- 7. NOTE: THE LOCATION OF THE TRAFFIC SIGNAL FIBER OPTIC CONDUIT (TSFO) 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 COMDETAIL (M-93.3 & 93.4).
- 8. AREAS WHERE 24" OF COVER IS NOT POSSIBLE SEE CHAPTER 9 OF THE CITY OF MESA ENGINEERING & DESIGN STANDARDS; THESE AREAS SHALL BE IDENTIFIED ON PLANS. SUPPLY FULL CONFLICT DATA, INCLUDING TOP OF CURB, SIZE AND MATERIAL OF PIPE. INVERT ETC.
- 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 CALL 480-644-3178. EAST OF VAL VISTA 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 SALVAGE 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 OF MESA ENGINEERING CONSTRUCTION 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 OF MESA ENGINEERING CONSTRUCTION INSPECTOR.
- 12.THE CONTRACTOR IS TO USE UTMOST CAUTION WHILE WORKING AROUND ALL OVERHEAD AND UNDERGROUND UTILITIES. SPECIFICALLY 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. CONTRACTORS ARE ADVISED THAT DAMAGE TO ANY TRAFFIC SIGNAL EQUIPMENT (DETECTOR LOOPS, PULLBOXES, CONDUIT, ETC.) AS A RESULT OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AND 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 (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", A 6" SLURRY CAP IS REQUIRED. THE MINIMUM ALLOWABLE DEPTH FOR TSFO CONDUITS IS 24". THE CITY OF MESA ENGINEERING CONSTRUCTION INSPECTOR SHALL BE NOTIFIED 48 HOURS PRIOR TO INSTALLING CONDUITS WHEN ANY VARIATION TO DETAIL (M-93.3 & M-93.4) IS REQUIRED. IF TSFO CONDUIT IS REQUIRED TO MEANDER VERTICALLY OR HORIZONTALLY, NO CONDUIT BEND SHALL EXCEED 45 DEGREES.
- 5. TSFO CONDUITS SHALL BE INSTALLED 48" DEEP IN A JOINT TRENCH WITH STREET LIGHT CONDUIT PER (M-93.3 & M-93.4).

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