

TOWN OF QUARTZSITE, ARIZONA

S SCOTT LANE SEWER LINE EXTENSION

TOWN COUNCIL

ED FOSTER	MAYOR
MARK ORGERON	COUNCIL MEMBER
MICHAEL JEWITT	COUNCIL MEMBER
CAROL KELLEY	COUNCIL MEMBER
NORMA CROOKS	COUNCIL MEMBER
PATRICIA WORKMAN	COUNCIL MEMBER
MARY SCOTT	COUNCIL MEMBER

TOWN STAFF

LAURA A. BRUNO	ACTING TOWN MANAGER
TERRY FRAUSTO	TOWN CLERK
EMMETT BRINKERHOFF	PUBLIC WORKS DIRECTOR
ROB TROXLER	UTILITIES DIRECTOR

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QUANTITY ESTIMATE

1.	Pvmt Removal & Replacement	292 SY
2.	8 - Inch PVC (SDR-35) Sewer Line	671 LF
3.	48 - Inch Diameter Manhole	3 EA
4.	Sewer Clean Out	1 EA



BID SET

JUNE 2014

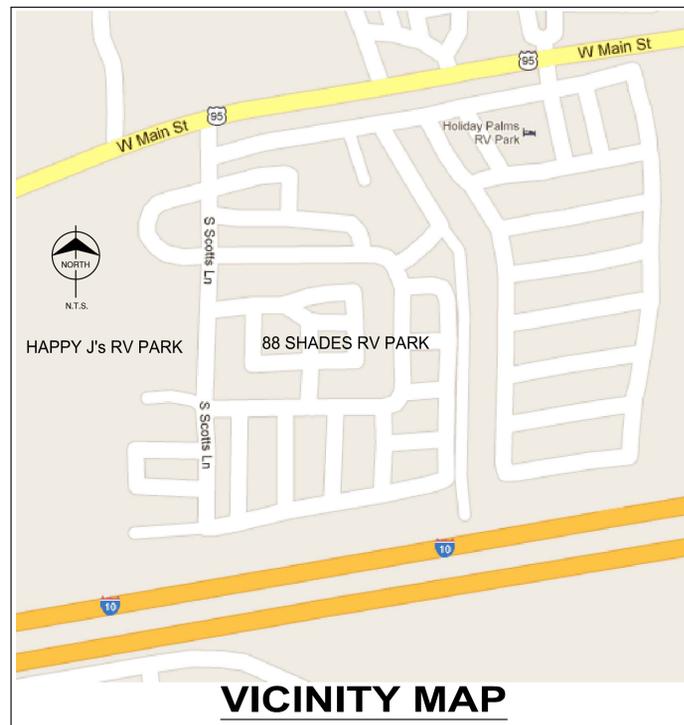
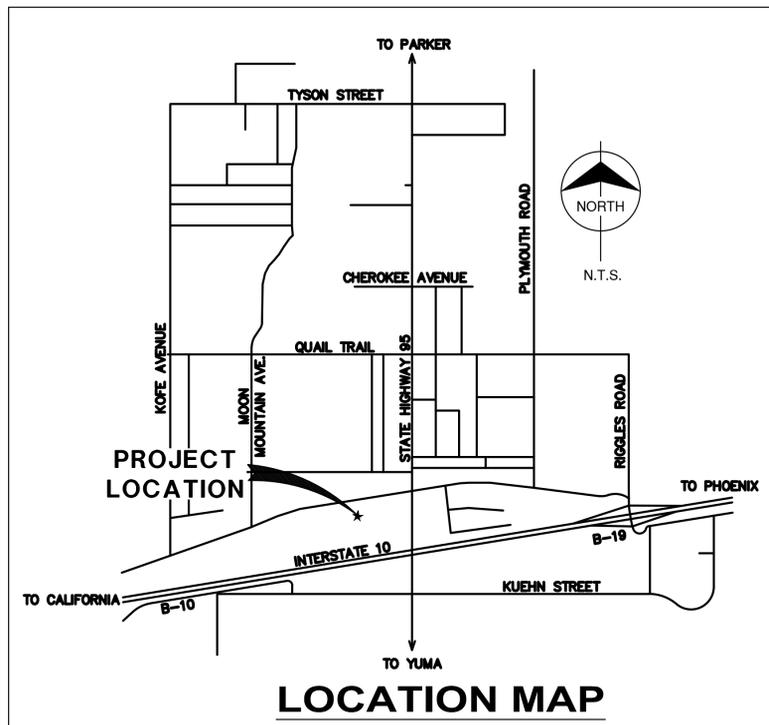
PREPARED BY:

ATKINS

PROJECT NO. 100018843

ABBREVIATIONS:

ABAND	ABANDONED	IPT	IRON PIPE THREAD
AC	ASPHALT CONCRETE	JTS	JOINTS
ACP	ASBESTOS CEMENT PIPE	L	LENGTH
ADJ	ADJUSTABLE	LB	POUND
ANG	ANGLE	LN	LANE
APPROX	APPROXIMATE	M	MALE
ASSY	ASSEMBLY	MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MAX	MAXIMUM
AVE	AVENUE	MFR	MANUFACTURER
AWG	AMERICAN WIRE GAGE	MG	MILLION GALLON
AWWA	AMERICAN WATER WORKS ASSOCIATION	MJ	MECHANICAL JOINT
BA	BEARING AREA	MIN	MINIMUM
BC	BEGIN CURVE	MIPT	MALE IRON PIPE THREAD
BPS	BOOSTER PUMP STATION	MOA	MACHINED OVER ALL
BLVD	BOULEVARD	N	NORTHING
BO	BLOW-OFF	NO	NUMBER
BRZ	BRONZE	OC	ON CENTER
BS	BOOSTER STATION	OD	OUTSIDE DIAMETER
CAV	COMBINATION AIR/VACUUM VALVE	OF	OVERFLOW
CL	CENTERLINE/CLASS	OHE	OVERHEAD ELECTRIC
CLR	CLEAR	OPR	OPERATOR
CML	CEMENT MORTAR LINED	P&ID	PROCESS AND INSTRUMENTATION DIAGRAM
CML&C	CEMENT MORTAR LINED AND COATED	PCC	POINT OF COMPOUND CURVE
CMU	CEMENT MORTAR UNIT	PE	PLAIN END
CO	CLEAN OUT	PI	POINT OF INTERSECTION
CONC	CONCRETE	PL	PROPERTY LINE
CORP	CORPORATION	PLCS	PLACES
CPTS	CATHODIC PROTECTION TEST STATION	PQC	POINT OF CONNECTION
CTG	COATING	PP	POWER POLE
CY	CUBIC YARD	PPLN	PIPELINE
DET	DETAIL	PS	PUMP STATION
DG	DISINTEGRATED GRANITE	PSI	POUNDS PER SQUARE INCH
DIP	DUCTILE IRON PIPE	PT	POINT
DIA	DIAMETER	PUE	PUBLIC UTILITY EASEMENT
DIAG	DIAGONAL	PVC	POLYVINYL CHLORIDE
DIM	DIMENSION	PVMT	PAVEMENT
DISCH	DISCHARGE	R	RADIUS
DWG	DRAWING	RCP	REINFORCED CONCRETE PIPE
DWV	DRAIN, WASTE, VENT	RDCR	REDUCER
E	EASTING	REQD	REQUIRED
EC	END CURVE	RESV	RESERVOIR
EG	EXISTING GROUND	ROW	RIGHT OF WAY
EL	ELEVATION	SS	SANITARY SEWER
EUG	ELECTRICAL UNDER GROUND	SCHED	SCHEDULE
EXIST	EXISTING	SF	SQUARE FEET
F	FEMALE	SHT	SHEET
FAB	FABRICATED	SLP	SLOPE
FB	FREEBOARD	SPRT	SUPPORT
FG	FINISH GRADE	SST	STAINLESS STEEL
FH	FIRE HYDRANT	STA	STATION
FIPT	FEMALE IRON PIPE THREAD	STD	STANDARD
FLG	FLANGE	STL	STEEL
FRP	FIBERGLASS REINFORCED PLASTIC	SD	STORM DRAIN
FT	FEET	L	THICKNESS
FTGS	FITTINGS	THD	THREAD
G	GAS	THK	THICK
GA	GAGE	TP	TOP OF PIPE
GALV	GALVANIZED	TYP	TYPICAL
HMWPE	HIGH MOLECULAR WEIGHT POLYETHYLENE	VAC	VACUUM
HP	HORSEPOWER	VERT	VERTICAL
HORIZ	HORIZONTAL	W	WATER LINE
HWL	HIGH WATER LEVEL	WV	WATER VALVE
IDENTIF	IDENTIFICATION	WWM	WELDED WIRE MESH
IE	INVERT ELEVATION	XFMR	TRANSFORMER
IN	INCH	YR	YEAR
INV	INVERT		



LEGEND:

EXISTING SYMBOLS	DESCRIPTION	IMPROVEMENT SYMBOLS	DESCRIPTION
--- 720 ---	INDEX CONTOUR	— —	WATER METER
--- ---	INTERMEDIATE CONTOUR	—○—	BIB
— W —	EXISTING WATER	—●—	FIRE HYDRANT
— GAS —	EXISTING GAS	— —	NEW PIPING
— —	EXISTING EDGE OF PAVEMENT	WV	VALVE
— —	EXISTING AC PAVEMENT	▲ RISER	ELECT PEDESTAL
		⊕	POWER POLE
		—>	GUY
		⊙	SIGN

GENERAL NOTES:

- ALL SEWER UTILITY CONSTRUCTION TO CONFORM TO ADEQ BULLETIN 11, LA PAZ COUNTY PUBLIC WORKS STANDARDS AND SPECIFICATIONS, MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) STANDARD SPECIFICATIONS AND DETAILS UNLESS SPECIFICALLY MODIFIED ON THE PLANS.
- APPROVAL BY THE TOWN ENGINEER MEANS FOR GENERAL LAYOUT IN THE RIGHT-OF-WAY ONLY.
- THE ENGINEER SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- ANY WORK PERFORMED WITHOUT THE KNOWLEDGE AND APPROVAL BY THE ENGINEER AND/OR ALL WORK MATERIAL NOT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT AND SIDEWALKS (NEW AND EXISTING) HAVE BEEN SWEEP CLEAN OF ALL DIRT AND DEBRIS.
- THE CONTRACTOR SHALL KEEP SUITABLE EQUIPMENT ON HAND AT THE JOBSITE FOR MAINTENANCE DUST CONTROL, AND SHALL CONTROL DUST AS DIRECTED BY THE APPROPRIATE AGENCIES.
- ALL QUANTITIES SHOWN ON PLANS ARE APPROXIMATE, ARE NOT VERIFIED BY THE ENGINEER, AND ARE FURNISHED SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT WILL BE BASED ON BID SCHEDULE ITEMS. THE CONTRACTOR SHALL NOT BE RELIEVED OF HIS RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING WORK QUANTITIES PRIOR TO BIDDING.
- BACKFILL COMPACTION SHALL BE PER LA PAZ COUNTY STD NO 5-080 UNLESS OTHERWISE NOTED.
- ALL PLANS, SIGNED BY THE DESIGN ENGINEER, ARE NULL AND VOID ONE YEAR FROM DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER FOR APPROVAL, TRAFFIC CONTROL PLANS WHICH SHALL BE MADE A PART OF THE SUBMITTAL REVIEW REQUEST. THE CONTRACTOR SHALL DETERMINE THE EXACT SIGNING/TRAFFIC CONTROL DEVICES NECESSARY AND ALL TRAFFIC CONTROL WORK SHALL BE IN ACCORDANCE WITH MUTCD AND THE LATEST REVISIONS THEREOF. NO STREET IS TO BE CLOSED, RESTRICTED, OR CONSTRUCTED UPON UNTIL A TRAFFIC PLAN IS PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE CITY ENGINEER 1 WEEK IN ADVANCE FOR APPROVAL. APPROPRIATE EMERGENCY AGENCIES SHALL BE NOTIFIED 24 HOURS PRIOR TO ANY CLOSING OF STREETS.
- CONTRACTOR SHALL WARRANT ALL WORK FOR A MINIMUM OF A ONE YEAR PERIOD.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF MAG AND LA PAZ COUNTY STANDARDS AND SPECIFICATIONS AS WELL AS ALL OTHER STANDARDS AND SPECIFICATIONS NECESSARY TO COMPLETELY AND ACCURATELY INTERPRET THESE PLANS.
- REMOVAL OF STRUCTURES AND OBSTRUCTIONS AS NECESSARY TO COMPLETE THE WORK, OTHER THAN SPECIFICALLY SCHEDULED IN THE BID, IS INCIDENTAL TO THE CONTRACT. NO SEPARATE MEASUREMENT OF PAYMENT FOR UNSCHEDULED REMOVAL ITEMS WILL BE MADE.
- CONSTRUCTION STAKING SHALL BE BY THE CONTRACTOR'S SURVEYOR WITH CONTROL PROVIDED BY THE DESIGN ENGINEER WHO STAMPED THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW THE HORIZONTAL ALIGNMENT AND VERTICAL GRADES SHOWN IN THE PLANS, ANY CHANGES MUST BE APPROVED BY ENGINEER.
- THE TOWN OF QUARTZSITE MAY ORDER ANY OR ALL WORKMANSHIP AND MATERIALS TO BE TESTED ACCORDING TO APPLICABLE STANDARDS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL REWORK AND/OR REMOVAL AND REPLACEMENT OF ALL MATERIALS AND/OR WORKMANSHIP REPRESENTED BY A FAILING TEST.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS OF TESTING AND QUALITY CONTROL AS DELINEATED IN THE TOWN'S PROJECT SPECIFICATIONS. THE COST OF TESTING IS INCIDENTAL TO EACH ITEM OF WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COST OF ANY TOWN INSPECTION, AND TIME ASSOCIATED WITH, IF THE CONTRACTOR'S WORK IS BEING PERFORMED IN OVERTIME, AT NIGHT, OR ON WEEKENDS.
- APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL WRITTEN FINAL ACCEPTANCE OF A COMPLETE AND WORKABLE UNIT.
- THE TOWN OF QUARTZSITE MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN ITS JUDGEMENT, PROGRESS IS UNSATISFACTORY, WORK BEING DONE IS UNAUTHORIZED OR DEFECTIVE, WEATHER CONDITIONS ARE UNSUITABLE, OR THERE IS A DANGER TO THE PUBLIC HEALTH OR SAFETY.
- STREET AND TRAFFIC SIGNS WILL BE RELOCATED BY THE CONTRACTOR. IF NECESSARY, ANY DIRECTION GIVEN BY THE TOWN OF QUARTZSITE SHALL BE INCIDENTAL.
- CLEARING AND GRUBBING IS CONSIDERED INCIDENTAL TO THE WORK UNLESS SEPARATELY IDENTIFIED IN THE BID SCHEDULE. NO SEPARATE MEASUREMENT OF OR PAYMENT FOR CLEARING, GRUBBING, AND TREE REMOVAL WILL BE MADE. THE SITE OF ALL EXCAVATION, EMBANKMENTS, AND FILLS SHALL FIRST BE CLEARED OF STUMPS, TRASH, WEEDS, RUBBISH, AND LOOSE BOULDERS WHICH SHALL BE REMOVED AND DISPOSED OF. THE CONTRACTOR MUST SATISFY HIMSELF REGARDING THE CHARACTER AND AMOUNT OF LOAM, CLAY, SAND, QUICKSAND, HARDPAN, GRAVEL, ROCK, WATER, AND ALL OTHER MATERIAL TO BE ENCOUNTERED AND WORK TO BE PERFORMED.
- ALL CONCRETE TO BE AT LEAST 4,000 P.S.I. CLASS 'A' PORTLAND CEMENT CONCRETE UNLESS OTHERWISE SPECIFIED ON PLANS.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND ARE BASED ON FIELD DATA AND MAP RECORDS. THE CONTRACTOR SHALL CONTACT 1-800 STAKE-IT PRIOR TO ANY CONSTRUCTION ACTIVITY TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL DETERMINE WHICH UTILITIES DO NOT PARTICIPATE IN 1-800-STAKE-IT AND CONTACT THEM DIRECTLY TO VERIFY THE LOCATION OF THOSE UTILITIES. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY CONTRACTOR'S OPERATION SHALL BE REPORTED TO THE UTILITY OWNER IMMEDIATELY AND REPAIRED OR REPLACED AT NO COST TO THE CITY. IN CASES WHEN THE EXISTING UTILITIES ARE NOT AS DEPICTED ON THE PLANS SOME MINOR DEVIATION TO THE PROPOSED ALIGNMENT MAY BE ALLOWED TO MAINTAIN MINIMUM SEPARATION DISTANCES BETWEEN UTILITIES. ANY PROPOSED CHANGES TO THE ALIGNMENT MUST BE SUBMITTED TO THE CITY'S REPRESENTATIVE FOR REVIEW. NO CHANGES WILL BE ALLOWED WITHOUT PRIOR APPROVAL.
- IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODE, SECTION R18-4-502, "MINIMUM DESIGN CRITERIA", EXTRA PROTECTION SHALL BE PROVIDED FOR GRAVITY SEWER LINES. FORCE MAIN SEWER LINES, REUSE FORCE MAINS, AND WATER LINES WHERE THE REQUIRED MINIMUM VERTICAL AND HORIZONTAL SEPARATION CAN NOT BE MAINTAINED. ENCASEMENT SHALL BE PROVIDED AS REQUIRED BY ADEQ AND SHALL CONFORM TO THE STANDARD DETAILS PROVIDED. REUSE LINES SHALL BE TREATED AS WATER LINES WHEN IN PROXIMITY TO SEWER LINES AND SHALL BE CONSIDERED SEWER LINES WHEN IN PROXIMITY TO WATER LINES.
- HORIZONTAL AND VERTICAL DATUM: COORDINATES ARE NAD83 (1992 ADJUSTMENT) GEODE 03 MODEL, ARIZONA STATE PLANE WEST ZONE, U.S. FOOT (39.37 DIVIDED BY 12). VERTICAL DATUM IS NAVD88, U.S. FOOT (39.37 DIVIDED BY 12).
- THE CONTRACTOR SHALL LIMIT THE WORK AREA TO PUBLIC RIGHT-OF-WAY AND PERMANENT EASEMENTS AS SHOWN FOR CONSTRUCTION OF THE PROJECT. NO TEMPORARY CONSTRUCTION EASEMENTS EXIST UNLESS INDICATED ON THE PLANS. CITY WILL PROVIDE ACCESS EASEMENTS FOR DECOMMISSIONING OF SEPTIC TANKS AND CONNECTION OF SEWER SERVICE LINES TO THE GRAVITY SYSTEM.
- CONTRACTOR SHALL OBTAIN ANY ADDITIONAL TEMPORARY EASEMENTS OR USE AGREEMENTS THAT ARE DEEMED NECESSARY FOR CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY. COPIES OF ALL CONTRACTOR OBTAINED EASEMENTS AND USE AGREEMENTS SHALL BE PROVIDED TO THE CITY'S REPRESENTATIVE PRIOR TO THE UTILIZATION OF THE SITE.

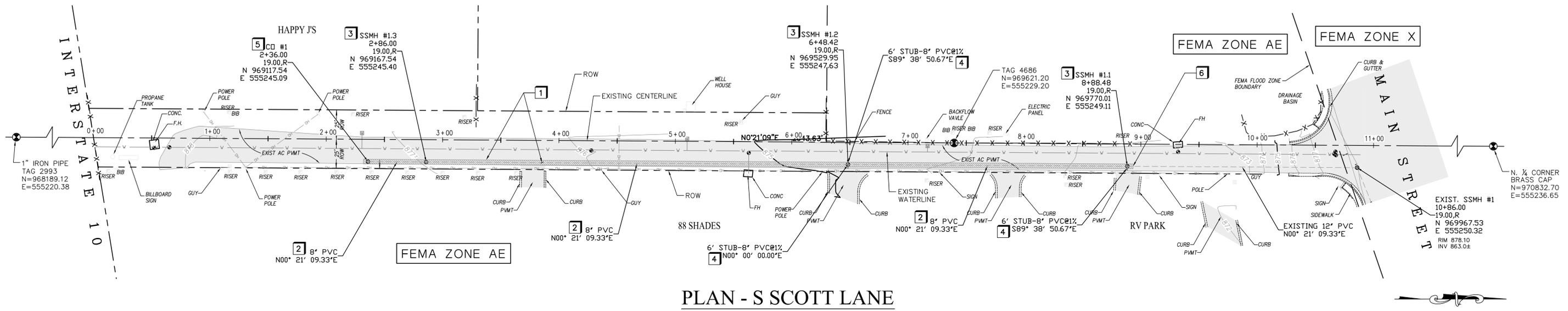
- ALL EXISTING FLOW LINES SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR.
- THE CONTRACTOR SHALL GRADE AND RESURFACE ALL AREAS DISTURBED BY CONSTRUCTION. IN ACCORDANCE WITH THE SPECIFICATIONS AND TO A CONDITION EQUAL TO, OR BETTER THAN, THE PRE-CONSTRUCTION CONDITION.
- THE CONTRACTOR SHALL PROVIDE PROTECTION TO PREVENT UNDERMINING OR DAMAGING THE STRUCTURAL INTEGRITY OF ALL POWER POLES, FENCES, BLOCK WALLS, SCREEN WALLS, RETAINING WALLS, HIGHWAY AND STREET SIGNS, OTHER UTILITY POLES, OR OTHER PRIVATE OR PUBLIC IMPROVEMENTS WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNING UTILITY AS NECESSARY TO PROVIDE TEMPORARY SUPPORT OR PROTECTION DURING CONSTRUCTION WORK, AND SHALL NEATLY REMOVE AND PROMPTLY REPLACE NON UTILITY IMPROVEMENTS WITHOUT UNDUE DISRUPTION. THE COST OF ALL SUCH PROTECTION, REMOVAL, AND REPLACEMENT REQUIRED TO COMPLETE THE PROJECT SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
- THE CONTRACTOR SHALL TAKE ALL APPROPRIATE STEPS TO MAINTAIN CONTINUOUS UTILITY SERVICE TO RESIDENTS AND BUSINESSES WITHIN THE PROJECT AREA. MANY EXISTING WATER AND GAS LINES ARE MORE THAN 30 YEARS OLD, PROPOSED METHOD OF CROSSING AND/OR SUPPORT OF UTILITIES SHALL BE APPROVED BY UTILITY OWNER IN ADVANCE OF WORK. MANY LOCAL WATER LINES ARE CONSTRUCTED OF ASBESTOS CEMENT. GAS LINES IN MANY OF THE PROJECT AREAS ARE REPORTED TO BE BRITTLE, SO CLOSE COORDINATION WITH THE UTILITY OWNER'S WILL BE NECESSARY TO AVOID DAMAGE. PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL MANHOLES ARE 48" INSIDE DIAMETER UNLESS OTHERWISE INDICATED. ALL DROPS ARE OUTSIDE DROPS UNLESS OTHERWISE INDICATED.
- ALL GRAVEL DRIVES AND GRAVEL ROADS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH A MINIMUM OF SIX INCHES (6") OF GRANULAR BACKFILL AS SPECIFIED IN SECTION 02300 AND SHALL BE CONSIDERED SUBSIDIARY TO OTHER PAY ITEMS.
- THE CONTRACTOR SHALL REMOVE ALL FENCING, ASPHALT AND CONCRETE ROADS AND DRIVEWAYS, CURB AND GUTTER, RIP-RAP, DRAINAGE CULVERTS AND ASSOCIATED APPURTENANCES AS REQUIRED FOR CONSTRUCTION PURPOSES. ALL ITEMS DAMAGED OR REMOVED SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATION TO A CONDITION EQUAL TO, OR BETTER THAN, THEIR CONDITION PRIOR TO THE START OF THE PROJECT. ITEMS OF WORK NOT SPECIFICALLY INCLUDED IN THE MEASUREMENTS AND PAYMENT SECTION OF THE SPECIFICATIONS SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.
- THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO PREVENT EROSION OF MATERIAL FROM THE WORK AREA AND DEPOSITION OF SEDIMENTS INTO WATER COURSES OR DRAINAGE SWALES, THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN PRIOR TO THE START OF ANY EXCAVATION. ALL EROSION AND SEDIMENT CONTROL WORK SHALL BE SUBSIDIARY TO OTHER PAY ITEMS.
- SURVEY, MAPPING AND GPS SERVICES PERFORMED BY:
CORNERSTONE LAND SURVEYING DATED: DECEMBER 2011 PROJECT NO.: ORIGINAL DOCUMENT BOOK ON FILE AT THE OFFICE OF THE CITY ENGINEER.
- ALL COORDINATES GIVEN ARE TO THE CENTER OF STRUCTURE UNLESS OTHERWISE INDICATED.
- PAVEMENT REPLACEMENT: THE CONTRACT PROVIDES FOR THE REMOVAL AND REPLACEMENT OF THE EXISTING STREET PAVEMENT WHEN SEWER LINES ARE BEING CONSTRUCTED IN THE ROADWAY. REPLACEMENT OF THE PAVEMENT TO ITS ORIGINAL GRADE AND RECREATING THE EXISTING DRAINAGE FLOW PATTERNS WILL REQUIRE PRE CONSTRUCTION SURVEYS TO OBTAIN THE BASIS FOR ACCEPTANCE OF THE COMPLETED PROJECT AND ASSURE THE BASIS FOR GRADE CONTROL HAS BEEN OBTAINED.
- EXISTING WATER VALVES AND MANHOLES HAVE AN 8-INCH THICK CONCRETE COLLAR AT THE PAVEMENT SURFACE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL NEW CONCRETE COLLARS ON NEW MANHOLES AND VALVE BOXES, ALL EXISTING VALVE BOXES AND MANHOLES THAT ARE DISTURBED DURING CONSTRUCTION, AND WHERE THE NEW ASPHALT SURFACE IS PLACED TO AN ELEVATION HIGHER THAN EXISTING VALVE BOX OR MANHOLE COVER. THIS ITEM OF WORK IS SUBSIDIARY TO OTHER PAY ITEMS. ALL VALVE BOXES WITHIN THE DISTURBED PROJECT AREA SHALL BE ADJUSTED IN ACCORDANCE WITH MAG DETAIL 391-1A.
- UNLESS OTHERWISE NOTED, ALL SEWER LINES INSTALLED IN UTILITY EASEMENTS, ACROSS WASHES OR OUTSIDE OF ROAD RIGHT-OF-WAYS SHALL BE C900 PIPE. ALL OTHER SEWERS SHALL BE PVC SDR 35.
- CONSTRUCTION OF SOME SEWER LINES ARE PLANNED IN PUBLIC UTILITY EASEMENTS. THE CONTRACTOR SHALL ARRANGE WITH ADJOINING PROPERTY OWNERS FOR TEMPORARY REMOVAL OF OBSTRUCTIONS TO ALLOW CONSTRUCTION OF THE SEWER AND SHALL PAY ALL COSTS FOR SUCH WORK. WORK WILL BE SUBSIDIARY TO OTHER PAY ITEMS.
- CRUSHED WASTE ASPHALT SHALL BE MILLED IN PLACE. DISPOSAL OF EXCESS WASTE ASPHALT AND CONCRETE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTROL FOR LAYOUT OF THE WORK SHALL BE THE COORDINATE SYSTEM AS INDICATED. OFFSET DIMENSIONS INDICATED FROM THE CENTERLINE OF RIGHT-OF-WAY ARE PROVIDED FOR THE CONVENIENCE OF THE CITY.
- THE CONTRACTOR SHALL PERFORM A DEFLECTION TEST (MANDREL) OF TOTAL LENGTH OF ALL SEWER LINES MADE OF FLEXIBLE MATERIALS TO ENSURE THAT THE INSTALLATION MEETS OR EXCEEDS THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL RECORD THE RESULTS AND SUBMIT THEM TO THE CITY'S REPRESENTATIVE. THE CONTRACTOR SHALL TEST EACH SECTION OF LINE FOR LEAKAGE USING THE "STANDARD TEST METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW-PRESSURE AIR," PUBLISHED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS, (F1417-92), REAPPROVED 1998; AND RECORD RESULTS.
- THE CONTRACTOR SHALL TEST THE TOTAL LENGTH OF THE SEWER LINE FOR UNIFORM SLOPE BY REMOTE CAMERA, OR SIMILAR METHOD APPROVED BY CITY AND ADEQ, AND RECORD THE RESULTS.
 - AIR PRESSURE TESTING USING THE "STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY NEGATIVE AIR PRESSURE (VACUUM) TEST," PUBLISHED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS, (C 1244-93). THIS MATERIAL IS INCORPORATED BY REFERENCE, DOES NOT INCLUDE ANY LATER AMENDMENTS OR EDITIONS OF THE INCORPORATED MATTER, AND IS ON FILE WITH THE OFFICE OF THE SECRETARY OF STATE. THE MATERIAL MAY BE VIEWED AT THE DEPARTMENT OF THE ENVIRONMENTAL QUALITY, WATER QUALITY DIVISION, OBTAINED FROM THE AMERICAN SOCIETY FOR TESTING AND MATERIALS, 100 BARR HARBOR DRIVE, CONSHOHOCKEN, PA 19428-2959.
- CONTRACTOR SHALL PERFORM MANHOLE TESTING UNDER GENERAL NOTE 21 OF THE SEWER NOTES AFTER INSTALLATION OF THE MANHOLE CONE TO VERIFY LEAKAGE OF THE MANHOLE FROM THE TOP OF THE CONE.
 - IF THE MANHOLE CONE, SPACERS, AND RING CAN BE INSTALLED TO FINAL GRADE WITHOUT DISTURBANCE OR ADJUSTMENT BY LATER CONSTRUCTION, THE CONTRACTOR SHALL PERFORM THE TESTING FROM THE TOP OF THE MANHOLE RING DOWN.
 - UPON SATISFACTORY TEST RESULTS, THE CONTRACTOR MAY INSTALL THE MANHOLE RING AND ANY SPACERS, COMPLETE THE JOINTS, AND SEAL THE MANHOLE TO A WATERTIGHT CONDITION.
- ALL SEWER MAINS SHALL HAVE A MINIMUM OF 4 FEET OF COVER.
- INVERT ELEVATIONS FOR THE PIPE ARE GIVEN ON EACH PROFILE DRAWING TO CONVEY SLOPE INFORMATION. CONTRACTOR SHALL CONSTRUCT PIPELINE WITH A CONSTANT SLOPE BETWEEN MANHOLES.

- ANY ROCK ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED AT NO ADDITIONAL COST TO THE CITY. ROCK EXCAVATION COST SHALL BE INCLUDED IN THE BASE BID.
- ANY SHORING REQUIRED SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN THE BASE BID.
- THE CONTRACTOR SHALL COORDINATE ANY EXCAVATION OR BORING IN THE VICINITY OF ANY SIGNALIZED INTERSECTION WITH THE TOWN OF QUARTZSITE STREET DIVISION. THE CONTRACTOR SHALL COORDINATE WITH ADOT TO PROMPTLY REPAIR ANY TRAFFIC CONTROL LOOPS DAMAGED DURING CONSTRUCTION. TRAFFIC CONTROL LOOPS SHOULD BE ASSUMED TO BE LOCATED AT ALL SIGNALIZED INTERSECTIONS WITHIN THE PROJECT AREA. CONTRACTOR SHALL COORDINATE WITH TOWN OF QUARTZSITE STREETS DEPARTMENT FOR REQUIREMENTS FOR STREET CROSSINGS, WHICH MAY REQUIRE THE CONTRACTOR TO PROVIDE PUBLIC NOTICE AND/OR CONSTRUCT STREET CROSSINGS AT NIGHT OR DURING OFF-PEAK TRAVEL HOURS.
- CONTRACTOR SHALL SCHEDULE WATER SHUTDOWNS AND SEWER WORK SO AS TO NOT DISRUPT SERVICE TO SCHOOLS, HOSPITALS, DAY CARE FACILITIES, ETC. IN ACCORDANCE WITH ARIZONA STATE LAW.
- IT IS NOT THE INTENTION OF THE SPECIFICATIONS TO SUPERSEDE ANY FEDERAL, STATE OR LOCAL LAWS, REGULATIONS AND/OR ORDINANCES; THEY SHALL GOVERN IN ALL INSTANCES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SHOW A GOOD FAITH EFFORT AND TO PROTECT ALL EXISTING UTILITIES AND STRUCTURES AND TO ABIDE BY ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES IN THIS RESPECT.
- PROPERTY LINES SHOWN ON DRAWINGS ARE APPROXIMATE.
- DURING EXCAVATION, BEDDING, PIPE INSTALLATION, AND COMPACTION OF NEW SEWER MAIN THE CONTRACTOR SHALL PLAN WORK SO THAT ADJACENT PROPERTY OWNERS ARE NOT DENIED ACCESS TO HIS OR HER PROPERTY.
- FOR CROSSING OVER AND UNDER SEWER MAINS ALL PIPE AND FITTINGS SHALL BE DUCTILE IRON IN ACCORDANCE WITH LA PAZ COUNTY STD. NO. 5-060. EXTRA PROTECTION SHALL CONSIST OF CONSTRUCTING THE SEWER MAIN WITH MECHANICAL JOINT DUCTILE IRON PIPE OR WITH SLIIP-JOINT DUCTILE IRON PIPE IF JOINT RESTRAINT IS PROVIDED. PIPE SHALL NOT BE LESS THAN EXISTING.

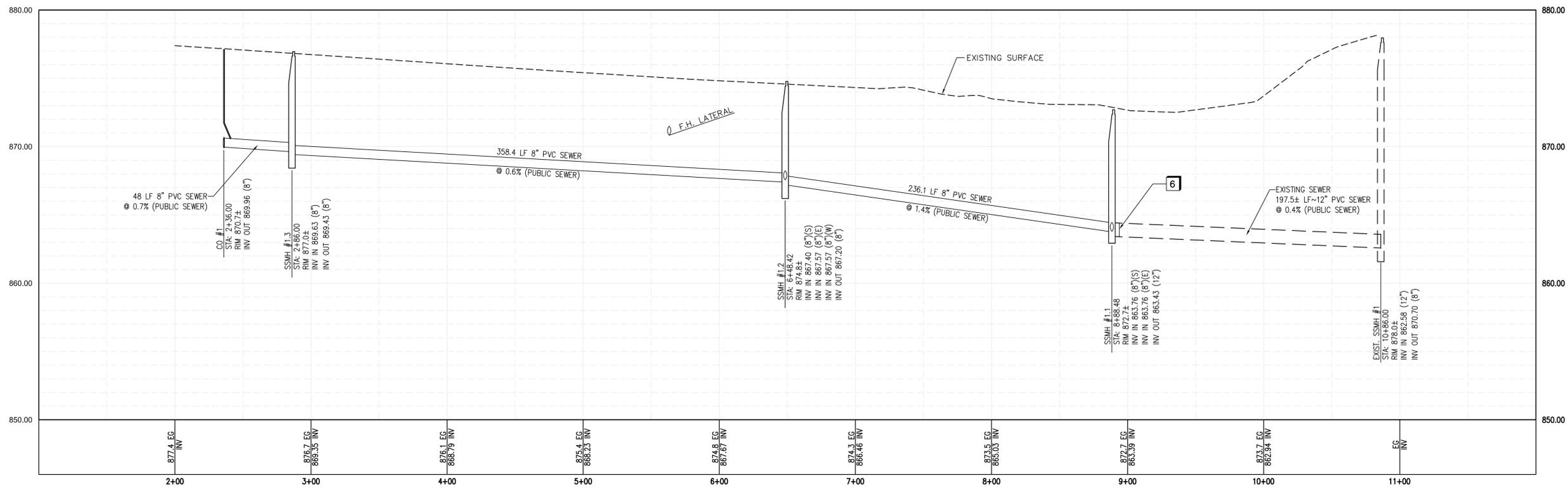
SEWER NOTES:

- ALL WORK SHALL CONFORM TO MARICOPA ASSOCIATION OF GOVERNMENTS (MAG), AND LA PAZ COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS, WHICH ARE ON FILE IN THE OFFICE OF THE TOWN ENGINEER, AND THE ARIZONA DEPARTMENT OF ENVIRONMENT QUALITY ENGINEERING BULLETIN NO. 11, WHICHEVER IS MOST STRINGENT.
- ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING, UTILITY, OR RELATED CONSTRUCTION.
- ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY THE TOWN OF QUARTZSITE.
- ACCEPTANCE OF THE COMPLETED WORK WILL NOT BE GIVEN UNTIL RED LINED "AS-BUILT" PLANS HAVE BEEN SUBMITTED AND APPROVED BY THE ENGINEER OF RECORD.
- THE TOWN OF QUARTZSITE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED 24 HOURS PRIOR TO STARTING ANY WORK.
- ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATION ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- ANY WORK PERFORMED WITHOUT THE KNOWLEDGE OF THE TOWN OF QUARTZSITE INSPECTOR OR HIS REPRESENTATIVE IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEN AND EQUIPMENT ON THE JOB AT ALL TIMES DURING CONSTRUCTION TO COMPLY WITH SPECIFICATIONS TO COMPLETE THE WORK
- INSPECTION IS TO BE DONE BY THE TOWN OF QUARTZSITE OR ITS REPRESENTATIVE.
- THE CONTRACTOR IS TO UNCOVER ALL EXISTING LINES BEING TIED INTO, AND VERIFY GRADES BEFORE ANY OTHER CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND UTILITIES AND STRUCTURED IN ADVANCE OF ANY CONSTRUCTION, AND ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO SUCH. THE ENGINEER AND/OR OWNER WILL GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM SAME.
- CONTRACTOR SHALL NOTIFY "BLUE STAKE" AT (1-800-STAKEIT) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN AND MAKE HIS BID BASED UPON THOSE VERIFICATIONS. IF ANY DISCREPANCY IN QUANTITIES IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SUCH.
- ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS SHALL BE COMPLIED WITH.
- ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REQUIREMENTS SHALL APPLY WHEN MORE STRINGENT THAN THE MAG STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - MORE SPECIFICALLY WHERE THEY PERTAIN TO MAXIMUM ALLOWABLE SEWER LINE/ PRESSURE SEWER LINE EXFILTRATION-INFILTRATION RATES.
- ALL PLANS, SIGNED BY PUBLIC WORKS DIRECTOR ARE NULL AND VOID ONE YEAR FROM THE DATE OF SIGNATURE IF CONSTRUCTION HAS NOT STARTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TRAFFIC CONTROL PLANS TO THE CITY ENGINEER FOR APPROVAL.
- WATER SEWER SEPARATION SHALL BE PURSUANT TO AAC R18-5-502C.
- ALL REVISIONS TO ORIGINAL PLANS MUST BE APPROVED BY PUBLIC WORKS DIRECTOR PRIOR TO CONSTRUCTION. ANY UNAPPROVED REVISIONS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE.
- SEWER LINE LOW PRESSURE AIR TESTS SHALL BE DONE ON 100% OF ALL LINES.
- LOW LINE PRESSURE TESTS SHALL BE PERFORMED ON PVC NON PRESSURE SEWER LINES PER ASTM F1417-92, AND ON DUCTILE IRON GRAVITY SEWER PIPE.
- SEWER MANHOLE EXFILTRATION TESTS SHALL BE DONE ON 100% OF ALL LINES PER R18-9-E301(D)(3)(F).
- SEWER LINE DEFLECTION TESTS SHALL BE DONE ON 100% OF ALL LINES PER R18-9-E301(D)(2)(1).
- UNIFORM SLOPE TEST WILL BE DONE ON 100% OF ALL LINES PER R18-9-E301(D)(2)(K).
- PRIOR TO PROJECT ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TOWN OF QUARTZSITE WITH DVD & HARD COPY OF REPORT OF ALL OF THE MAIN LINE INSTALLED. THE CONTRACTOR SHALL COMPLY WITH THE TOWN'S VIDEO ACCEPTANCE PROCEDURE PRIOR TO PROJECT RELEASE.

	BENCH MARK: FOUND SURVEY MONUMENT, TAG 4686 1.7' OFF EDGE OF PAVEMENT N=969821.20 E=595292.20 ELEV=874.4385				TOWN OF QUARTZSITE S SCOTT LANE SEWER LINE EXTENSION GENERAL NOTES	SHEET 2 OF 3 SHEETS
	BASIS OF BEARING: BASIS OF BEARING IS BASED ON ARIZONA WEST STATE PLANE COORDINATES.					



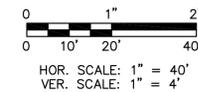
PLAN - S SCOTT LANE



PROFILE - S SCOTT LANE ALONG PROPOSED 8-INCH SANITARY SEWER

CONSTRUCTION KEY NOTES

- 1 SAWCUT EXISTING A.C. PAVEMENT FOR THE FULL PAVEMENT DEPTH OF THE A.C. PAVEMENT. REMOVE AND DISPOSE OF THE EXISTING A.C. PAVEMENT, BASE MATERIAL AND NATIVE MATERIAL FOR THE INSTALLATION OF THE P.C.C. MANHOLE AND SANITARY SEWER PIPELINE. PAVEMENT NOT TO BE REPLACED.
- 2 INSTALL 8-INCH DIAMETER SDR 35 PVC SANITARY SEWER PIPELINE ACCORDING TO LA PAZ COUNTY STD NO 5-080.
- 3 INSTALL 48" DIAMETER PRE-CAST CONCRETE MANHOLE PER LA PAZ COUNTY STD NO. 5-030, 5-035, 5-040 & 5-045.
- 4 INSTALL 8-INCH PVC SEWER STUB PER LENGTH AND SLOPE SHOWN ON PLANS.
- 5 INSTALL NEW SANITARY SEWER CLEANOUT IN PAVED AREA PER LA PAZ COUNTY STD. NO. 5-010.
- 6 REMOVE EXISTING PLUG AND CONNECT TO EXISTING 12" PVC SEWER LINE. CONTRACTOR TO CONFIRM JOIN LOCATION PRIOR TO CONSTRUCTION.



<p>ARIZONA Blue Stains, Inc. Dig Safely 1-800-574-8511 1-800-782-5348</p>	<p>BENCH MARK: FOUND SURVEY MONUMENT, TAG 4686 1.7' OFF EDGE OF PAVEMENT N=969621.20 E=555229.20 ELEV=874.4385</p>		<p>60 SOUTH ACOMA BLVD., SUITE C106 LAKE HAVASU CITY, ARIZONA 86403 PHONE: 928.855.4505 FAX: 928.855.4535</p>	<p>TOWN OF QUARTZSITE FOUNDED 1872</p>	<p>TOWN OF QUARTZSITE S SCOTT LANE SEWER LINE EXTENSION PLAN AND PROFILE STA. 1+00 THRU STA. 12+00</p>	<p>SHEET 3 OF 3 SHEETS</p>
	<p>BASIS OF BEARING BASIS OF BEARING IS BASED ON ARIZONA WEST STATE PLANE COORDINATES.</p>					