LEGACY SQUARE

MESA, MESA ARIZONA

APN: 138-66-006, 138-66-005A, 138-66-007A, 138-66-028A, 138-66-029A, 133-66-004

ABBREVIATIONS

ABAN	ABANDON	HP	HIGH POINT
AC	ASPHALTIC CONCRETE	HPS	HIGH PRESSURE SODIUM
ACP	ASBESTOS CEMENT PIPE	ID	INSIDE DIAMETER
ADJ	ADJUST	INT	INTERSECTION
AGG	AGGREGATE	INV	INVERT
AIP	ABANDON IN PLACE	IRR	IRRIGATION
ALT	ALTERNATE	LAT	LATERAL
BC	BACK OF CURB	LF	LINEAL FEET
BCR	BEGINNING OF CURB RETURN	LS	LANDSCAPE
BDRY	BOUNDARY	LT	LEFT
BFE	BASE FLOOD ELEVATION	LVVWD	LAS VEGAS VALLEY WATER DISTRICT
BEG	BEGIN	MAX	MAXIMUM
BM	BENCHMARK	MH	MANHOLE
BSW	BACK OF SIDEWALK	MIN	MINIMUM
BVC	BEGINNING OF VERTICAL CURVE	MTR	METER
CATV	CABLE TV	NAP	NOT A PART
C&G	CURB AND GUTTER	NG	NATURAL GRADE
CBC	CITY OF BOULDER CITY	NDOT	NEVADA DEPARTMENT OF TRANSPORTATION
CC	CLARK COUNTY	NTS	NOT TO SCALE
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWING	O/S	OFFSET
CCRFCD	CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT	OC	ON CENTER
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	OD	OUTSIDE DIAMETER
CIP	CAST IRON PIPE	OHP	OVERHEAD POWER LINE
CL	CENTERLINE	PB	PULL BOX
CLV	CITY OF LAS VEGAS	PC	POINT OF CURVATURE
CM	CITY OF MESQUITE	PCC	POINT OF COMPOUND CURVE
CMP	CORRUGATED METAL PIPE	PI	POINT OF INTERSECTION
CMU	CONCRETE MASONRY UNIT	PL	PROPERTY LINE
CNLV	CITY OF NORTH LAS VEGAS	PP	POWER POLE
CO	CLEAN OUT	PRC	POINT OF REVERSE CURVE
COH	CITY OF HENDERSON	PROP	PROPOSED
COMM	COMMUNICATIONS	PT	POINT OF TANGENT
CONC	CONCRETE	PVC	POLY VINYL CHLORIDE PIPE
COND	CONDUIT	PVI	POINT OF VERTICAL INTERSECTION
CONST	CONSTRUCT OR CONSTRUCTION	PVMT	PAVEMENT
CULV	CULVERT	Q	RATE OF FLOW
DC	DEPRESSED CURB	R or RAD	RADIUS
DI	DROP INLET	RCB	REINFORCED CONCRETE BOX
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	RR	RAILROAD
DMH	DROP MANHOLE	RT	RIGHT
DOM	DOMESTIC	ROW	RIGHT-OF-WAY
DWY	DRIVEWAY	SS	SANITARY SEWER
E or ELEC	ELECTRIC	SD	STORM DRAIN
EAC	EDGE OF AC	SHT	SHEET
ECR	END OF CURB RETURN	SIG	SIGNAL
EG	EXISTING GROUND	SNWA	SOUTHERN NEVADA WATER AUTHORITY
EL or ELEV	ELEVATION	SSMH	SANITARY SEWER MANHOLE
EP	EDGE OF PAVEMENT	STA	STATION
EVC	END OF VERTICAL CURVE	SL or STLT	STREET LIGHT
EW	EACH WAY	STD	STANDARD
EX or EXIST	EXISTING	SVZ	SIGHT VISIBILITY ZONE
FAST	FREEWAY & ARTERIAL SYSTEM OF TRANSPORTATION	SW	SIDEWALK
FC	FACE OF CURB	T or TEL	TELEPHONE
FF	FINISH FLOOR	TC	TOP OF CURB
FG	FINISH GRADE	TF	TOP OF FOOTING
FH	FIRE HYDRANT	TMH	TOP OF MANHOLE
FL	FLOW LINE	TRANS	TRANSITION
FO	FIBER OPTICS	TS	TRAFFIC SIGNAL
FS	FINISHED SURFACE	TW	TOP OF WALL
FTG	FOOTING	TYP	TYPICAL
G	GAS	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
GALV	GALVANIZED	VC	VERTICAL CURVE
GB	GRADE BREAK	VCP	VITRIFIED CLAY PIPE
H	HIGH OR HEIGHT	VERT	VERTICAL
HDPE	HIGH DENSITY POLYETHYLENE	VG	VALLEY GUTTER
HDWL	HEADWALL	WL	WATER LINE
HGL	HYDRAULIC GRADE LINE	W/	WITH
HOR	HORIZONTAL	W/O	WITHOUT
TOB	TOP OF BLOCK	W	WIDE OR WIDTH

SITE DATA

TOTAL ACREAGE	2.21 ACRES
TOTAL SF	96630.19 SF
TOTAL BUILDINGS	1
ZONING	DR-2 DR-3
BUILDING TYPE	V-A

SHEET INDEX	
Sheet Number	Sheet Title
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C11	STRIPING PLAN

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TECH'N: –
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REVISIONS:

LEGACY SQUARE
NORTH WEST CORNER OF 2ND AVENUE AND POMEROY
MESA
ARIZONA

DEVELOPER: WESTGATE COMPANIES
ADDRESS
1950 N 200 WEST, STE 9
CONTACT: TRAVIS
PHONE: 801-694-5202 EMAIL: TRAVIS@WESTEDLLC.COM

COVER SHEET

DIGITAL SIGNATURE:

PRINTS REQUIRE ENGINEER'S SEAL AND SIGN FOR PROOF OF VALIDITY

SHEET #: C1

GENERAL NOTES

(REVISED 03-15-18) (2018 VERSION)

1. ALL WORK AND MATERIALS SHALL CONFORM TO CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS PUBLISHED 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. THE INFORMATION SHOWN ON DRAWINGS CONCERNING THE TYPE AND LOCATION OF EXISTING UNDERGROUND UTILITIES IS APPROXIMATE AND HAS NOT BEEN INDEPENDENTLY VERIFIED BY THE ENGINEER OR THE ENGINEER'S AGENT. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND AND OVERHEAD UTILITIES.

   A. CALL 602-263-1100 OR 811 FOR BLUE STAKE SERVICES.

   B. CALL SALT RIVER POWER FOR POLE BRACING, ELECTRIC SERVICE OR CONSTRUCTION SCHEDULING AT 602-236-8888.

   C. CALL CITY OF MESA ELECTRICAL FOR POLE BRACING, ELECTRICAL SERVICE OR CONSTRUCTION SCHEDULING AT 480-644-2251 WITHIN CITY OF MESA ELECTRICAL SERVICE TERRITORY (DOWNTOWN MESA).

   D. WHEN EXCAVATING IN OR ADJACENT TO A CITY PARK OR AQUATIC FACILITY THE CONTRACTOR SHALL CONTACT AQUATICS AND PARKS MAINTENANCE AT 480-644-3097 TO REQUEST ASSISTANCE IN LOCATING UNDERGROUND UTILITY FACILITIES.

   E. WHEN EXCAVATING IN OR ADJACENT TO LANDSCAPING WITHIN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL CONTACT TRANSPORTATION FIELD OPERATIONS AT 480-644-3380 TO REQUEST ASSISTANCE IN LOCATING UNDERGROUND IRRIGATION FACILITIES.

3. TRAFFIC CONTROL SHALL CONFORM TO THE CITY OF MESA TEMPORARY TRAFFIC CONTROL MANUAL. ELECTRONIC COPIES ARE AVAILABLE AT http://www.mesaaz.gov/business/barricading-temporary-traffic-control-permits. hard Copies can be made AVAILABLE at development services, 55 N. Center St., Mesa, Arizona

4. CONTRACTOR TO NOTIFY TRAFFIC OPERATIONS AT 480-644-3126 PRIOR TO SIGN REMOVAL AND WHEN READY TO PERMANENTLY RELOCATE SIGN.

5. CONTRACTOR TO OBTAIN ANY PERMITS REQUIRED UNLESS OTHERWISE INDICATED, AND COORDINATE ALL IRRIGATION DRY-UPS, RELOCATIONS, AND REMOVALS BY OTHERS.

6. CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AHEAD OF CONSTRUCTION TO ALLOW FOR ANY NECESSARY ADJUSTMENTS IN GRADE LINE AND TO VERIFY PIPE MATERIALS FOR ORDERING THE APPROPRIATE TRANSITION AND TIE-IN FITTINGS THAT MAY BE REQUIRED.

7. THE CONTRACTOR IS RESPONSIBLE TO REMOVE ALL ABANDONED UTILITIES THAT INTERFERE WITH PROPOSED IMPROVEMENTS. THE CITY OF MESA UTILITIES DEPARTMENT LOCATING SECTION WILL ASSIST THE CONTRACTOR AS NEEDED, IN DETERMINING IF THE UTILITY (GAS, WATER, AND WASTEWATER ONLY) IS ABANDONED BY CALLING 480-644-4500.

8. PRIOR TO START OF CONSTRUCTION ON PRIVATE PROPERTY (EASEMENTS), THE CONTRACTOR SHALL GIVE THE OWNER SUFFICIENT TIME (MINIMUM 48 HOURS) TO REMOVE ANY ITEMS IN CONFLICT WITH CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE TO REMOVE AND REPLACE ALL OTHER CONFLICTS AS REQUIRED.

9. THE CONTRACTOR SHALL COORDINATE WORK SCHEDULES TO PREVENT ANY CONFLICTING WORK CONDITIONS WITH THE CITY OF MESA UTILITY AND TRANSPORTATION CREWS.

10. THE CONTRACTOR IS ADVISED THAT A DUST CONTROL PERMIT AND A DUST CONTROL PLAN MAY BE REQUIRED BY THE MARICOPA COUNTY AIR QUALITY DEPARTMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THIS PERMIT, IF NECESSARY, AND COMPLY WITH ITS REQUIREMENTS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE A COPY OF THE DUST CONTROL PERMIT AND DUST CONTROL PLAN TO THE CITY FOR REVIEW.

11. INSPECTIONS SHALL BE PROVIDED BY THE CITY OF MESA. THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTION DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF ANY CONSTRUCTION.

12. THE JOB SITE SHALL BE CLEANED OF ANY DEBRIS OR SPOIL RESULTING FROM THIS PROJECT AT THE COMPLETION OF CONSTRUCTION.

13. ALL EQUIPMENT AND MATERIALS NOT SHOWN OR SPECIFIED ON THE PLANS OR SPECIFICATIONS, BUT REQUIRED TO COMPLETE THIS PROJECT, SHALL BE SUPPLIED BY THE CONTRACTOR AS PART OF THIS CONTRACT WORK (NO ADDITIONAL COST TO THE CITY).

14. WHEREVER PAVEMENT REPLACEMENT PER MESA STD DETAIL M-19.04.1 OR MAG STD DETAIL 200 IS REFERRED TO WITHIN THESE PLANS, BACKFILLING SHALL BE PER THE CITY OF MESA STREET TRENCH BACKFILLING AND PAVEMENT REPLACEMENT POLICY STATEMENT, REVISED SEPTEMBER 29, 1999.

15. FOR PURPOSES OF PAVEMENT PER MAG STD DETAIL 200 OR MESA STD DETAIL M-19.04.1, INTERSECTIONS ARE DEFINED BY THE CURB RETURNS IN ALL DIRECTIONS.

16. ANY SURVEY MARKERS DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND BY A REGISTERED LAND SURVEYOR AT NO ADDITIONAL COST TO THE CITY.

17. ALL EXISTING PAVEMENT MARKINGS, SIGNS, AND SIGNAL EQUIPMENT THAT ARE NOT PART OF THIS PROJECT BUT NEED TO BE REMOVED, REPLACED, RELOCATED, OR REPAIRED BECAUSE OF CONTRACTOR'S WORK WILL BE DONE AT THE CONTRACTOR'S EXPENSE.

18. THE CONTRACTOR IS ADVISED THAT DAMAGE TO ANY PUBLIC SERVICES OR SYSTEMS AS A RESULT OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AND INSPECTED BY THE CITY INSPECTOR. DEPENDING ON DAMAGES, ALL REPAIRS SHALL BE DONE WITHIN 24 HOURS. THE CONTRACTOR IS ADVISED THAT ANY COSTS RELATED TO REPAIR OR REPLACEMENT OF DAMAGED PUBLIC SERVICES OR SYSTEMS AS A RESULT OF CONTRACTOR'S NEGLIGENCE SHALL BE BORNE BY THE CONTRACTOR.

WATER, WASTEWATER AND STORM DRAIN GENERAL NOTES

(REVISED 04-15-21) (2021 VERSION)

1. MATERIALS AND INSTALLATION OF WATER AND SEWER MAINS, WATER METERS AND SERVICE LINE CONNECTIONS SHALL CONFORM TO CURRENT CITY DETAILS, MESA AMENDMENTS TO MAG SPECIFICATIONS, AND THE APPROVED PRODUCTS LIST. SEE BELOW FOR APPROVED PRODUCT LISTS FOR WATER AND WASTEWATER.

- WATER
- WASTEWATER

2. IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODE (A.A.C). R18-4-213, ALL MATERIALS WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NATIONAL SANITATION FOUNDATION (NSF) STANDARDS 60, 61, AND 372 AND SHALL BE LEAD-FREE AS DEFINED IN A.A.C. R18-5-504 AND R18-4-101.

3. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY FITTINGS AND ADAPTERS REQUIRED TO CONNECT DIFFERENT TYPES OF WATER MAIN MATERIALS.

4. PER MESA AMENDMENTS 610.4.2 ALL MINOR VERTICAL OR HORIZONTAL DEFLECTIONS SHALL BE BY PIPE JOINT DEFLECTION UNLESS OTHERWISE NOTED. PIPE JOINT DEFLECTION SHALL NOT EXCEED 3 DEGREES OR 2/3 OF PIPE MANUFACTURER'S RECOMMENDATIONS WHICHEVER IS LESS.

5. PER MAG AND MESA AMENDMENTS 610.11 ALL WATER LINE TESTS SHALL BE COMPLETED SO THAT NO EXISTING LINES, EXISTING VALVES, OR NEWLY INSTALLED VALVES WHICH ARE CONNECTED TO THE OPERATING WATER SYSTEM ARE INCLUDED IN THE TESTS. ALLOWABLE TIMEFRAMES SHOULD FOLLOW MESA AMENDMENTS TO MAG AND MUST BE COORDINATED WITH THE CITY INSPECTOR. FOR A DAYTIME TIE-IN, THE CONTRACTOR SHALL COMPLETE ALL WORK NECESSARY TO RESTORE UTILITY SERVICE AND FULLY OPEN THE TIE-IN AREA TO TRAFFIC WITHIN THE TIME ALLOWED.

6. WATER LINE FLUSHING, PRESSURE TESTING, AND DISINFECTION SHALL BE COMPLETED PER MAG SPECIFICATION SECTION 611, MESA AMENDMENTS TO MAG SPECIFICATION SECTION 611, AND AWWA C651 (CURRENT VERSION).

7. SOURCE WATER UTILIZED FOR FILLING, FLUSHING AND TESTING SHALL BE OBTAINED FROM A HYDRANT METER ORDERED THROUGH PERMIT SERVICES AND SET BY CITY OF MESA WATER RESOURCES STAFF. IT IS PROHIBITED TO OPEN A VALVE TO THE EXISTING WATER SYSTEM TO FILL A NEWLY CONSTRUCTED OR REPAIRED PIPELINE AS OUTLINED IN THE MESA AMENDMENTS TO MAG SECTION 610.11 AND 611.

8. WATER METERS, METER BOXES, LIDS, ETC. IN CONFLICT WITH NEW CONSTRUCTION SHALL BE RELOCATED PER CITY OF MESA STANDARD DETAIL M-49 BY THE CONTRACTOR. THE RELOCATION SHALL INCLUDE ALL MATERIALS NECESSARY TO RECONNECT THE METER TO THE CITY DISTRIBUTION SYSTEM. SERVICE LINE EXTENSIONS, IF APPROVED IN WRITING BY MESA WATER RESOURCES DEPARTMENT, SHALL CONFORM TO MESA STANDARD DETAIL M-49. WHEN SERVICE LINE EXTENSIONS ARE APPROVED PER MESA STANDARD DETAIL M-49, SERVICE LINE COUPLINGS SHALL NOT BE PLACED UNDER ROADWAY SURFACES, CONCRETE GUTTERS, CURB AND GUTTER, OR CONCRETE DRIVEWAYS.

9. VALVES SHALL BE INSTALLED WITH VALVE BOX AND COVER PER MAG STD DETAILS 391-1, TYPE C WITH A DEEP-SKIRTED LID (4-INCHES MINIMUM) AS NOTED IN THE APPROVED PRODUCTS LIST.

10. ALL WATER LINE ABANDONMENT CUT AND PLUGS FOR ACTIVE LINES SHALL CONFORM TO THE FOLLOWING:

   A. 12" AND SMALLER DIAMETER PER MESA STANDARD DETAIL M-50.

   B. 16" DIAMETER PER M.A.G. STANDARD DETAIL 390, TYPE B.

   C. GREATER THAN 16" DIAMETER, AS DESIGNED PER PLAN.

11. LIME-TREATED AGGREGATE BASE COURSE (ABC) MATERIAL, RECLAIMED CONCRETE MATERIAL (RCM), AND RECLAIMED ASPHALT PAVEMENT (RAP) MATERIALS ARE PROHIBITED FOR USE IN THE PIPE EMBEDMENT ZONE (BEDDING, HAUNCHING, INITIAL BACKFILL) FOR WATERLINE CONSTRUCTION PER MESA AMENDMENTS 601.4.2.

12. PER MESA AMENDMENTS 610.11, APPLICATIONS TO THE CITY OF MESA ENGINEERING INSPECTOR AND REVIEWED AND APPROVED BY THE WATER RESOURCES DEPARTMENT FOR WATER SYSTEM SHUTDOWN FOR THE PURPOSES OF CONSTRUCTION-RELATED ACTIVITIES SHALL BE MADE A MINIMUM OF FIVE (5) BUSINESS DAYS PRIOR TO THE SCHEDULED SHUTDOWN DATE. THE REQUEST SHALL INCLUDE PRIMARY AND SECONDARY VALVE NUMBERS, WHETHER A TEST SHUTDOWN IS REQUESTED, AND THE DATE AND DURATION OF THE REQUESTED SHUTDOWN. PER MAG 610.11, THE CITY OF MESA DOES NOT GUARANTEE A COMPLETE SHUTDOWN.

13. REQUIRED BACKFLOW PREVENTION ASSEMBLIES SHALL INCLUDE MANUFACTURERS AND MODELS 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.

14. BACKFLOW PREVENTION ASSEMBLIES 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.

15. ALL WATER METERS ARE TO BE SUPPLIED BY THE CITY OF MESA. CHARGES FOR INSTALLING NEW SERVICES AND METERS WILL BE IN ACCORDANCE WITH THE CURRENT UTILITY SERVICE FEE SCHEDULE. 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. SEE M-27.01 FOR MORE INFORMATION.

16. WHEN GROUTING OR CASTING CONCRETE AROUND PVC SEWER PIPE, SUCH AS AT MANHOLE OR VAULT PENETRATIONS, THE CONTRACTOR SHALL INSTALL WATER STOPS PER MESA AMENDMENTS TO MAG SPECIFICATION 625 AND MANUFACTURERS RECOMMENDATIONS.

17. SEWER BUILDING CONNECTION LATERALS SHALL BE INSTALLED PER MAG STANDARD DETAIL 440. LATERAL WYES SHALL BE INSTALLED AT NO GREATER THAN A 45 DEGREE ANGLE FROM HORIZONTAL. SEWER LATERAL SLOPES SHALL BE AS INDICATED ON MAG STANDARD DETAIL 440 AND IN NO CIRCUMSTANCE SHALL SEWER LATERAL SLOPES EXCEED 7/8" PER FOOT FOR 6" LATERALS AND 1-1/2" PER FOOT FOR 4" LATERALS. FITTINGS SHALL BE INSTALLED WITH NO ANGULAR JOINT DEFLECTION AND ALL CONNECTIONS SHALL BE GASKETED OR SEALED PER MAG SPECIFICATIONS.

18. SEWER MANHOLE BASES, BENCHES, SHELVES, AND CHANNELS SHALL BE CONSTRUCTED PER MAG STANDARD DETAIL 420. EACH INLET PIPE SHALL HAVE A DESIGNATED, FORMED CHANNEL AND BENCHING. THE DIMENSIONS OF CHANNELS, SHELF SLOPE, AND MINIMUM INLET PIPE ANGLES SHALL BE CONSTRUCTED PER MAG STANDARD DETAIL 420-3.

19. PER MESA DESIGN STANDARDS, SEWER MANHOLES SHALL BE CONSTRUCTED PER MAG STANDARD DETAILS 420-1, TYPE 'A' TOP; AND 423-2 EXCEPT THAT:

   A. MANHOLE SHAFT DIAMETERS SHALL BE 5 FEET.

   B. MANHOLE RINGS AND COVERS SHALL HAVE 30-INCH DIAMETERS.

   C. STEPS SHALL NOT BE INCLUDED.

PAVING GENERAL NOTES

(REVISED 02-07-18) (2018 VERSION)

1. CONTRACTOR SHALL COORDINATE ALL DRIVEWAY LOCATIONS WITH PRIVATE PROPERTY OWNERS AND THE CITY INSPECTOR.

   2. FOR THE APPROVED LIST OF PAVING PRODUCTS SEE: http://www.mesaaz.gov/business/engineering/approve-products-equipment-natural-gas-line-contractors

3. ALL GUTTER GRADES LESS THAN 0.0020 FT/FT SHALL BE STAKED ALONG THE ACTUAL GUTTER ALIGNMENT (NOT OFFSET) AND CHECKED BY CITY OF MESA INSPECTOR IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE.

4. ALL FRAMES, COVERS, VALVE BOXES, ETC. SHALL BE ADJUSTED BY THE CONTRACTOR TO FINISHED GRADE AFTER PLACEMENT OF ASPHALT CONCRETE SURFACE COURSE PER MAG STD DETAILS 270, 422, OR 391-1-C.

GAS GENERAL NOTES

(REVISED 02-07-12)

1. ALL WORK AND MATERIALS SHALL CONFORM TO THE CURRENT CITY OF MESA GAS OPERATIONS, MAINTENANCE, EMERGENCY RESPONSE, AND CONSTRUCTION PRACTICE MANUAL.

2. WHEN GAS MAIN 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 THE TRENCH.

3. BEDDING OR SHADING MATERIAL ADJACENT TO THE CITY GAS PIPE SHALL BE SELECT SANDY TYPE SOIL FREE OF ROCK OR DEBRIS THAT WILL PASS THROUGH A 3/8 INCH "SCREEN" AS INSPECTED AND APPROVED BY THE CITY GAS INSPECTION PERSONNEL.

4. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AS INDICATED ON MESA STD DETAIL M-58 WHEN TRENCHING FOR THE WATER LINE WHERE A GAS MAIN IS TO BE INSTALLED IN THE SAME TRENCH.

5. CONTACT THE GAS DIVISION AT 480-250-2982 FOR SCHEDULING AND COORDINATION OF THE INSTALLATION OF NATURAL GAS MAINS AND/OR SERVICES.

6. GAS LINE SHALL MAINTAIN A NOMINAL TWELVE (12) INCHES (MINIMUM OF EIGHT (8) INCHES) SEPARATION FROM EXISTING WATER, WASTEWATER, ELECTRICAL, CABLE TV, AND TELCO FACILITIES.

ITS/TRAFFIC SIGNAL GENERAL NOTES

(REVISED 06-26-18) (2018 VERSION)

1. THE CITY OF MESA REQUIRES AT LEAST TWO INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMSA) CERTIFIED TRAFFIC SIGNAL TECHNICIANS ON SITE DURING ALL PHASES OF ANY TRAFFIC SIGNAL WORK. AT LEAST ONE TECHNICIAN MUST LEVEL II CERTIFICATION OR HIGHER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE VERIFICATION OF CERTIFICATION. IF A JOB SITE IS INSPECTED AND CERTIFIED TECHNICIAN IS NOT ON SITE, A STOP WORK ORDER WILL BE ISSUED. TEMPORARY AND CONTRACT EMPLOYEES DO NOT SATISFY THIS REQUIREMENT.

2. THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY TRAFFIC SIGNAL DAMAGE TO THE ENGINEERING INSPECTOR OR ITS OPERATIONS SUPERVISOR AT 480-644-3129. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR DAMAGE TO ANY TRAFFIC SIGNAL EQUIPMENT SUCH AS CONTROLLER CABINET AND EQUIPMENT, DETECTOR LOOPS, PULL BOXES, CONDUIT, POLES, MAST ARMS, HEADS OR RELATED EQUIPMENT AS A RESULT OF THIS PROJECT. A CITY OF MESATECHNICIAN SHALL INSPECT THESE REPAIRS.

   A. A TRAFFIC SIGNAL CANNOT BE DARK OR IN FLASH FOR MORE THAN TWO HOURS.

   B. A LOSS OF COMMUNICATION SHALL BE REPAIRED WITHIN 24 HOURS.

   C. DETECTOR LOOPS SHALL BE REPLACED IN TWO WEEKS UNLESS THE TRAFFIC SIGNAL FOREMAN AGREES IN WRITING TO A DIFFERENT SCHEDULE.

3. IF THE CONTRACTOR CANNOT RESPOND OR MAKE THE REPAIRS WITHIN ABOVE NOTED TIME FRAMES, THE CITY TRAFFIC SIGNAL GROUP WILL MAKE THE NECESSARY REPAIRS AND CHARGE THE CONTRACTOR USING A "REPAIR ORDER FORM".

4. THE CONTRACTOR IS ADVISED THAT ANY COSTS RELATED TO REPAIR OR REPLACEMENT OF DAMAGED TRAFFIC SIGNAL EQUIPMENT AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE SHALL BE BORNE BY THE CONTRACTOR.

5. IF THERE IS A TRAFFIC SIGNAL PROBLEM (INDICATION OUTAGES, KNOCKDOWNS, UTILITY POWER OUTAGES, ETC.) THAT IS NOT A DIRECT RESULT OF THE CONTRACTOR'S OR SUBCONTRACTOR'S WORK, AN ITS TECHNICIAN SHALL BE CALLED TO RESPOND. IF IT IS DETERMINED THE CONTRACTOR'S OR SUBCONTRACTOR'S WORK CAUSED THE TRAFFIC SIGNAL MALFUNCTION, THE CONTRACTOR THROUGH A "REPAIR ORDER FORM" SHALL PAY ALL COSTS OF REPAIRS.

6. TRAFFIC SIGNAL DETECTOR LOOPS SHALL BE INSTALLED IN ASPHALT CONCRETE PAVEMENT BEFORE THE FINAL LIFT. THE LOOP CONDUCTORS SHALL BE INSTALLED PER MESA STD DETAIL M-96.1.

7. THE CONTRACTOR IS ADVISED TO CONTACT THE CITY'S TRANSPORTATION MANAGEMENT CENTER AT 480-644-5888 AT LEAST 48 HOURS PRIOR TO ANY WORK WITHIN THE VICINITY OF OR THROUGH A SIGNALIZED INTERSECTION WHICH WILL CHANGE TRAFFIC LANE PATTERNS.

ITD FIBER OPTIC GENERAL NOTES

(REVISED 02-15-12) (2018 VERSION)

1. FIBER OPTIC DUCT WORK MAY BE INSTALLED BY EITHER OPEN CUT OR GUIDED BORE UNLESS OTHERWISE NOTED. ANY SURFACE RESTORATION RELATED TO EITHER METHOD IS A NON-PAY ITEM AND SHALL BE INCIDENTAL TO THE CORRESPONDING BID ITEM FOR CONDUIT INSTALLATION UNLESS OTHERWISE NOTED. SURFACE RESTORATION SHALL BE COMPLETED IN ACCORDANCE WITH CITY OF MESA AND MAG STANDARD SPECIFICATIONS. ASPHALT DRIVEWAY OR PARKING LOT RESTORATION SHALL COMPLY WITH MAG STD DETAIL 200, TYPE B; AND MAG SPECIFICATION SECTION 336 UNLESS OTHERWISE NOTED.

2. FOR NON-CAPITAL (PRIVATE) PROJECTS, NO COMPONENT OR PART OF THE CONDUIT FIBER SYSTEM SHALL BE INSTALLED, CONSTRUCTED, LOCATED ON, OR ATTACHED TO ANY PROPERTY WITHIN THE CITY'S PUBLIC RIGHT-OF-WAY UNTIL CONTRACTOR HAS APPLIED FOR AND RECEIVED APPROVAL FOR RIGHT-OF-WAY PERMITS AND/OR RIGHT-OF-WAY ENCROACHMENT PERMITS FOR SUCH WORK ON THE CONDUIT FIBER SYSTEM.

3. ALTHOUGH THE EXACT PLACEMENT AND LOCATIONS OF CONDUIT FIBER SYSTEM MAY BE REVISED DURING THE PERMIT PROCESS, IT IS THE CITY'S EXPRESSED DESIRE TO HAVE THE CONDUIT FIBER SYSTEM INSTALLED OUTSIDE PAVED AREAS WHENEVER FEASIBLE. FURTHERMORE, WHEN NECESSARY FOR THE CONDUIT FIBER SYSTEM TO CROSS UNDER CITY STREETS OR PAVED AREAS, THE CONTRACTOR SHALL USE DIRECTIONAL BORING PER MESA STD DETAILS M-18 AND M-18.1.

4. PULL BOXES AND VAULTS ARE SHOWN ACCORDING TO AVAILABLE DATA. FIELD ADJUSTMENTS MAY BE NECESSARY TO AVOID CONFLICTS AND INTERCEPT EXISTING CONDUIT. CONFIRM FINAL LOCATION OF ALL NEW PULL BOXES AND VAULTS WITH CITY OF MESA REPRESENTATIVE.

5. WIDTH OF PLAN SYMBOLS MAY BE GREATER THAN ACTUAL DISTURBED AREAS. ITEMS DEPICTED ON THE PLANS ARE TO BE INSTALLED WITHIN THE RIGHT-OF-WAY OR PERMANENT EASEMENT WHERE NOTED ON THE PLANS.

6. THE CITY REQUIRES AT LEAST ONE CERTIFIED TECHNICIAN ON SITE DURING ALL PHASES OF ANY TELECOMMUNICATIONS WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE VERIFICATION OF CERTIFICATION. IF A JOB SITE IS INSPECTED AND A CERTIFIED TECHNICIAN IS NOT ON SITE, THE JOB WILL BE SHUT DOWN.

7. THE CONTRACTOR IS ADVISED TO CONTACT THE CITY'S ITS DEPARTMENT AT 480-644-3129, 48 BUSINESS HOURS PRIOR TO ANY WORK WITHIN THE VICINITY OF OR THROUGH A SIGNALIZED INTERSECTION WHICH WILL CHANGE TRAFFIC LANE PATTERNS.

8. THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY TRAFFIC SIGNAL DAMAGE TO THE ENGINEERING INSPECTOR. DAMAGE TO ANY TRAFFIC SIGNAL EQUIPMENT SUCH AS CONTROLLER CABINET AND EQUIPMENT, DETECTOR LOOPS, PULL BOXES, CONDUIT, POLES, MAST ARMS, HEADS OR RELATED EQUIPMENT AS A RESULT OF THIS PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED BY THE APPROPRIATE IMSA LEVEL CERTIFIED TRAFFIC SIGNAL TECHNICIAN ACCORDING TO CITY OF MESA TRAFFIC SIGNAL SPECIFICATION. A CITY OF MESA TRAFFIC SIGNAL TECHNICIAN SHALL INSPECT THESE REPAIRS.

   A. A TRAFFIC SIGNAL CANNOT BE DARK OR IN FLASH FOR MORE THAN TWO HOURS.

   B. A LOSS OF COMMUNICATION SHALL BE REPAIRED WITHIN 24 HOURS.

   C. DETECTOR LOOPS SHALL BE REPLACED IN TWO WEEKS UNLESS THE ITS FOREMAN AGREES IN WRITING TO A DIFFERENT SCHEDULE.

   D. IF THE CONTRACTOR CANNOT RESPOND OR MAKE THE REPAIRS WITHIN ABOVE NOTED TIME FRAMES, THE CITY OF MESA WILL MAKE THE NECESSARY REPAIRS AND CHARGE THE CONTRACTOR.

   E. IF THERE IS AN OUTAGE(S) THAT IS NOT A DIRECT RESULT OF THE CONTRACTOR'S OR SUBCONTRACTOR'S WORK, CITY OF MESA SHALL BE CALLED TO RESPOND. IF IT IS DETERMINED THE CONTRACTOR'S OR SUBCONTRACTOR'S WORK CAUSED THE OUTAGE, THE CONTRACTOR SHALL PAY ALL COSTS OF REPAIRS.

9. ALL SIDEWALK REPLACEMENT SHALL BE PER MAG STD DETAIL 230.

10. THE CONTRACTOR SHALL VIDEOTAPE THE ENTIRE PROJECT AREA PRIOR TO START OF CONSTRUCTION. THE VIDEOTAPE SHALL INCLUDE THE ENTIRE PROJECT AREA WHERE THE CONTRACTOR WILL BE PERFORMING THE WORK AND SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO STARTING WORK.

11. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF MESA TO ATTAIN ANY NECESSARY PERMITS FROM ADOT.

12. RIGHTS-OF-WAY FOR ALL WORK SPECIFIED IN THIS CONTRACT MAY NOT BE SHOWN ON THE PLANS, AND THE CONTRACTOR SHALL NOT ENTER OR OCCUPY WITH PERSONNEL, TOOLS, EQUIPMENT, OR MATERIALS ANY PRIVATE GROUND OUTSIDE THE RIGHT-OF-WAY WITHOUT THE CONSENT OF THE OWNER.

13. POTHOLING AND RELATED SURFACE RESTORATION SHALL BE COMPLETED IN ACCORDANCE WITH CITY OF MESA STD DETAILS M-18 THRU M-18.3, MAG STD DETAIL 212, AND SPECIFICATION SECTION 335. IN THE CASE OF A CONFLICT BETWEEN THE TWO SPECIFICATIONS THE CITY OF MESA'S REQUIREMENTS SHALL PREVAIL.

ITD FIBER SPLICING AND INSTALLATION NOTES

(REVISED 02-15-12) (2018 VERSION)

1. THE CONTRACTOR SHALL NOTIFY THE ITD REPRESENTATIVE 48 HOURS IN ADVANCE OF FIBER OPTIC CABLE INSTALLATION INTO ANY EXISTING OR NEW CONDUIT.

2. DISTANCES SHOWN ON THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL CAREFULLY MEASURE DISTANCES AND MAKE ALLOWANCES FOR SLACK BEFORE ORDERING AND CUTTING CABLE.

3. FUSION SPLICES SHALL BE PERFORMED WITH EQUIPMENT HAVING THE FOLLOWING FEATURES: AUTOMATIC FIBER ALIGNMENT AND AUTOMATIC LIGHT INJECTION WITH DETECTION DEVICES OR PROFILE ALIGNMENT ALGORITHMS TO PROPERLY ALIGN THE FIBER CORES AND ESTIMATE SPLICE LOSSES. "V" GROOVE ALIGNMENT SHALL NOT BE PERMITTED.

4. ALL FIBER OPTIC WORK SHALL BE PERFORMED IN OFFICE TYPE ENVIRONMENTS IN BUILDINGS, SPLICE TRAILERS AND SPLICING TENTS WITH FLOORS.

5. AT THE TIME OF FIBER OPTIC CABLE INSTALLATION, LIVE 120/240 VAC AND/OR 280 VAC POWER CONDUCTORS SERVING TRAFFIC CONTROL EQUIPMENT AND LIGHTING MAY BE PRESENT IN JUNCTION BOXES, WHERE FIBER IS TO BE INSTALLED. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS.

6. CABLE SHALL BE INSTALLED AS ONE CONTINUOUS PIECE WITH NO SPLICES, EXCEPT WHERE INDICATED ON PLANS.

7. ALL CONDUITS TO BE UTILIZED FOR THE FIBER SYSTEM SHALL BE BLOWN OUT WITH COMPRESSED AIR AND HAVE A METAL DISK MANDREL PULLED THROUGH. AN ITD REPRESENTATIVE SHALL BE ON SITE DURING MANDREL PROCEDURE.

8. INSTALL ONE (1) NO.12 XHHW COPPER STRANDED IN 1" PVC ABOVE FIBER CONDUIT.

9. THE CONTRACTOR SHALL USE LUBRICANT OF THE TYPE AND QUANTITY AS RECOMMENDED BY THE CABLE MANUFACTURER WHEN PULLING CABLE.

10. DURING PULLING, A FIBER OPTIC BREAK AWAY SWIVEL SHALL BE USED.

11. THE CONTRACTOR SHALL ENSURE THAT THE TENSILE LOAD ON THE CABLE DOES NOT EXCEED MANUFACTURER SPECIFICATIONS BY USING A SUITABLE RATED SHEAR PIN AND A SYSTEM WHICH INCLUDES A MEANS OF ALERTING THE INSTALLER WHEN PULLING TENSION APPROACHES THE LIMIT AND DISPLAYS THE ACTUAL TENSION ON THE CABLE.

12. DURING PULLING, THE CABLE SHALL BE CONTINUOUSLY LUBRICATED.

13. MANUFACTURER RECOMMENDED PULLING SPEEDS SHALL NOT BE EXCEEDED.

14. FIBER OPTIC SPLICING SHALL BE PERFORMED ONLY AT THE DESIGNATED LOCATIONS SHOWN ON THE PLANS.

15. THE CONTRACTOR SHALL CERTIFY THAT THE INSTALLATION OF THE COMMUNICATIONS CABLE SUB-SYSTEM IS IN ACCORDANCE WITH THE CABLE AND SPLICE MANUFACTURER'S RECOMMENDATIONS AND THE PROJECT SPECIFICATIONS.

16. THE CONTRACTOR SHALL NOT CAUSE THE CABLE TO VIOLATE THE MINIMUM BENDING RADIUS FOR WHICH THE CABLE WAS DESIGNED.

17. IF THE CABLE IS DAMAGED DURING INSTALLATION, THE ENTIRE LENGTH OF CABLE BETWEEN THE NEAREST SPLICE POINTS SHOWN ON THE PLANS SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

18. ONE HUNDRED (100) FEET OF EACH CABLE SHALL BE LOOSELY LOOPED AND COILED IN EACH FIBER OPTIC 4' X 4' MANHOLE.

19. SIXTY (60) FEET OF EACH CABLE SHALL BE LOOSELY LOOPED AND COILED IN EACH FIBER OPTIC NO. 9 PULL BOX.

20. TWENTY-FIVE (25) FEET OF EACH CABLE SHALL BE LOOSELY LOOPED AND COILED IN EACH FIBER OPTIC NO. 7 PULL BOX.

21. TWENTY-FIVE (25) FEET OF EACH CABLE SHALL BE LOOSELY COILED AND RACKED INSIDE EQUIPMENT ROOMS.

22. THE SLACK LENGTH REQUIREMENTS ARE MINIMUMS. THE CONTRACTOR MAY PROVIDE EXTRA SLACK, NOT TO EXCEED THREE TIMES THE MINIMUM AMOUNT, FOR CONTRACTOR'S SPLICING CONVENIENCE, AT NO ADDITIONAL COST TO THE CITY.

23. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EMPTY REELS AND RESIDUAL MATERIALS.

24. A PERMANENT HIGH-QUALITY LABEL IDENTIFYING EACH CABLE SHALL BE APPLIED TO THE CABLE WITHIN TWO (2) FEET OF THE SPLICE CLOSURE AND/OR PATCH PANEL.

FIBER TESTING NOTES

(REVISED 02-15-12) (2018 VERSION)

1. ALL FIBER OPTIC TESTING SHALL BE PERFORMED WITH AN OTDR CAPABLE OF PRODUCING PC COMPATIBLE OUTPUT FILES.

2. ELECTRONIC SUBMITTAL ON CD SHALL BE REQUIRED. TEST RESULTS SUPPLIED ELECTRONICALLY SHALL BE IN PDF FORMAT, OTDR NATIVE FORMAT, AND INCLUDE OTDR SOFTWARE FOR VIEWING.

3. FIBERS SHALL BE IDENTIFIED BY STRAND NUMBER.

4. EACH BINDER SHALL HAVE A COVER SHEET INDICATING WHICH CABLE(S) WERE TESTED, THE OTDR USER'S NAME, THE REVIEWER'S NAME, THE TYPE OF TEST PERFORMED, AND THE DATE(S) OF THE TEST. FOR INTERMEDIATE RESULTS, AN INDEX OF SHEETS THAT CONTAIN ANY DISCREPANCIES WITH THE SPECIFICATIONS SHALL BE PROVIDED IMMEDIATELY FOLLOWING THE COVER SHEET.

5. COVER SHEETS FOR FINAL TEST RESULTS SHALL BEAR THE REVIEWER'S SIGNATURE, THE DATE, AND A STATEMENT INDICATING THAT THE INSTALLATION COMPLIES WITH THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.

6. ALL OTDR TRACES SHALL BEAR THE SIGNATURE OR INITIALS AND PRINTED NAME OF THE CONTRACTOR'S EMPLOYEE WHO HAS REVIEWED THE TRACES. THE CONTRACTOR SHALL PLACE A CHECK MARK ON ALL TRACES THAT SATISFY THE REQUIREMENTS IDENTIFIED HEREIN. FOR INTERMEDIATE TEST RESULTS, THE CONTRACTOR SHALL HIGH LIGHT ANY DISCREPANCIES WHICH MAY EXIST AND PLACE A POST-IT FLAG ON THE SUBJECT PAGE. THE PAGE SHALL BEAR A SHORT DESCRIPTION OF THE PROPOSED CORRECTIVE ACTION (E.G. RE-SPLICE).

7. SINGLE-MODE FIBER OPTIC CABLE SHALL BE TESTED IN ACCORDANCE WITH EIA-455-61 OR ANY SUBSEQUENT REVISIONS OR REPLACEMENTS. CABLE SEGMENTS HAVING ATTENUATION GREATER THAN 0.4 DB/KM AT 1310 NM AND 0.3 DB/KM AT 1550 NM SHALL BE REJECTED. CABLE SEGMENT LOSS EVENTS GREATER THAN 0.20 DB SHALL BE REJECTED.

8. MULTI-MODE FIBER OPTIC CABLE ATTENUATION SHALL BE LESS THAN OR EQUAL TO 0.35 DB PER KM AT 1310 NM AND 0.25 DB PER KM AT1550 NM.

9. THE MAXIMUM INSERTION LOSS FOR CONNECTORS SHALL BE 0.50 DB. THE CONNECTORS SHALL BE POLISHED TO ENSURE THAT BACK REFLECTION DOES NOT EXCEED 30 DB.

10. POST INSTALLATION TESTING: THE FIBER OPTIC CABLE SHALL BE TESTED AFTER INSTALLATION TO VERIFY THE INTEGRITY OF THE FIBER OPTIC CABLE PLANT AND ITS PERFORMANCE. THE CONTRACTOR SHALL PERFORM AN INSERTION LOSS TEST ON EACH OUTSIDE PLANT CABLE USING THE ATTENUATION TEST SETS IN ACCORDANCE WITH EIA-455-171. OTDR TESTING IN ACCORDANCE WITH EIA-455-59 AND EIA-455-61 SHALL ALSO BE REQUIRED. SPLICES TESTING 0.1 DB OR GREATER SHALL BE RESPLICED BY CONTRACTOR AT NO ADDITIONAL COST TO THE CITY. CONNECTORS TEST GREATER THAN 0.5 DB SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.

11. THE CONTRACTOR SHALL PERFORM BIDIRECTIONAL OTDR TESTING ON ALL FIBERS. BARE FIBER ADAPTERS SHALL BE USED FOR OTDR TESTING. THE CONTRACTOR SHALL USE A POWER METER TO PERFORM ATTENUATION MEASUREMENTS.

12. THE CONTRACTOR SHALL PERFORM OTDR TESTING ON ALL FIBERS WITH THE ITD REPRESENTATIVE PRESENT BEFORE FINAL ACCEPTANCE. THE CONTRACTOR PROVIDED OPERATOR SHALL BE QUALIFIED TO PERFORM THE TEST. WRITTEN TEST RESULTS SHALL BE PROVIDED TO THE CITY OF MESA FIELD INSPECTOR FOR EACH FIBER TESTED. UNACCEPTABLE RESULTS SHALL REQUIRE THE CONTRACTOR TO REINSTALL NECESSARY SECTIONS OF CABLE, SPLICING ONLY AT POINTS INDICATED ON PLANS, AND AT THE CONTRACTOR'S EXPENSE.

13. THE CONTRACTOR SHALL COMPLETE A FIBER OPTIC CONTINUITY TEST WITH A MODULATED LIGHT SOURCE AND POWER METER TO VERIFY THAT SPLICES HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

14. RE-TESTING SHALL BE REQUIRED IF ANY SPLICE CLOSURE IS OPENED AFTER TESTING. AFTER COMPLETING THE REWORK, THE CONTRACTOR SHALL USE AN OTDR IN ACCORDANCE WITH EIA-455-59 AND EIA-455-61 TO TEST EACH AND EVERY FIBER STRAND PASSING THROUGH ANY SPLICE TRAY THAT WAS OPENED BY THE CONTRACTOR.

ITD FIBER OPTIC MATERIALS

(REVISED 11-23-11) (2018 VERSION)

1. REFERENCES TO A MANUFACTURER'S TRADE NAME OR CATALOG NUMBER ARE FOR THE PURPOSE OF IDENTIFICATION TO ESTABLISH A LEVEL OF QUALITY, AND THE CONTRACTOR WILL NOT BE PERMITTED TO FURNISH LIKE MATERIALS OF OTHER MANUFACTURERS, EXCEPT WHERE MANUFACTURER NAME IS NOT INDICATED, PROVIDED IF THEY ARE OF EQUAL QUALITY, COMPLETE WITH SPECIFICATIONS FOR THIS PROJECT, AND ARE APPROVED BY THE ENGINEER.

2. SEE TECHNICAL SPECIFICATIONS FOR FIBER OPTIC MATERIAL INFORMATION.

3. SEE TECHNICAL SPECIFICATIONS FOR PULL BOX MATERIALS INFORMATION. PULL BOX COVER LETTERING SHALL BE 1" LETTERS CAST IN STANDARD MARKINGS CITY OF MESA ITS FIBER OPTICS. PULL BOX COVER WILL BE SECURED WITH A 5-POINT SECURITY BOLT.

4. EACH FIBER SHALL BE DISTINGUISHABLE BY MEANS OF A COLOR CODE IN ACCORDANCE WITH TIA/EIA-598.

5. THE CABLE MANUFACTURER SHALL CERTIFY THAT THE CABLE IS IN CONFORMANCE WITH THE SPECIFICATIONS.

6. THE CONTRACTOR SHALL FURNISH AND INSTALL OUTDOOR RATED SPLICE CLOSURE IN MANHOLES AND SPLICE FIBER CABLE. THE CONTRACTOR SHALL FURNISH AND INSTALL FIBER PATCH PANEL IN CABINETS AND TERMINATE FIBER. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL COUPLERS AND CONNECTORS.

7. ALL PATCH PANEL CONNECTORS SHALL BE LC TYPE CONNECTORS OR APPROVED EQUAL.

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GENERAL NOTES

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DATE: 16Jul24
TECH'N: -
ENGR CHK.: -
REVISIONS:

LEGACY SQUARE
NORTH WEST CORNER OF 2ND AVENUE AND POMEROY
MESA
ARIZONA

DEVELOPER: WESTGATE COMPANIES
ADDRESS
1950 N 200 WEST, STE 9
CONTACT: TRAVIS
PHONE: 801-694-5202 EMAIL: TRAVIS@WESTEDLLC.COM

DIGITAL SIGNATURE:

PRINTS REQUIRE ENGINEER'S SEAL AND SIGN FOR PROOF OF VALIDITY

SHEET #: C2

(REVISED 02-07-12) (2018 VERSION)

1. CONTRACTOR WILL REQUEST AND MAINTAIN A VALID ONE CALL NOTICE FOR THE DURATION OF THE EXCAVATION PERIOD. CONTRACTOR IS TO CONTACT AIR PRODUCTS 48 HOURS IN ADVANCE TO WORKING WITHIN TEN (10) FEET OF PIPELINE AT 480-225-1406, 480-225-1889, OR 480-899-1177. CONTRACTOR SHALL USE SOFT DIG METHODS TO LOCATE AND IDENTIFY THE 6" NITROGEN PIPELINE WHEN THE WORK HAS BROUGHT THEM TO WITHIN FIVE (5) FEET OF THE 6" PIPELINE.
2. ANY CONTINUOUS EXPOSURE THAT UNDERMINES THE PIPELINE FOR FIFTEEN (15) FEET OR MORE SHALL BE SUPPORTED BY THE CONTRACTOR USING AN APPROVED METHOD AGREED UPON BY THE AIR PRODUCTS REPRESENTATIVE AND THE CONTRACTOR.
3. THE CONTRACTOR SHALL PROVIDE AND ALLOW SAFE JOB SITE ACCESS FOR THE AIR PRODUCTS REPRESENTATIVE TO THE NITROGEN PIPELINE FOR THE PURPOSE OF INSPECTIONS FOR PIPE AND OR COATING DAMAGE, OR REPAIR IF REQUIRED.
4. ANY NEW FACILITY BEING INSTALLED OR EXCAVATION DURING THIS PROJECT SHALL MAINTAIN A TWO (2) FOOT SEPARATION FROM THE NITROGEN PIPELINE IN ALL DIRECTIONS.
5. BACK FILL MATERIAL SHALL CONSIST OF CLEAN SAND FOR TWO FEET AROUND THE NITROGEN PIPELINE. SLURRY IS NOT TO BE PLACED ON OR WITHIN TWO (2) FOOT OF A NITROGEN PIPELINE.
6. IF DURING THE PROJECT THE CONTRACTOR ENCOUNTERS ANY AIR PRODUCTS TEST STATION(S) AND/OR VENT STATION(S) AND IT IS DETERMINED THAT A RELOCATION OF THESE FACILITIES IS NECESSARY, THE CONTRACTOR SHALL PROVIDE TRENCHING AND BACKFILLING AS REQUIRED TO AN ADEQUATE DEPTH AND WIDTH FROM THE EXISTING TEST/VENT STATION(S) TO AN AREA AGREED UPON BY ALL PARTIES IN THE FIELD. OTHER THAN WELDING, AIR PRODUCTS WILL PROVIDE THE MATERIALS AND LABOR TO RELOCATE TEST/VENT STATION(S).
7. CONTRACTOR SHALL PROVIDE PROTECTION FOR ANY AND ALL AIR PRODUCTS FACILITIES ABOVE AND BELOW GROUND WITHIN THE SCOPE OF THIS PROJECT FOR THE DURATION OF THE PROJECT.

STREET LIGHTING GENERAL NOTES

(REVISED 05-17-12) (2018 VERSION)

1. ALL WORKMANSHIP, MATERIAL AND INSTALLATION SHALL COMPLY WITH THE CURRENT MAG UNIFORM STANDARD DETAILS AND SPECIFICATIONS AS AMENDED BY THE CITY OF MESA, THE CITY OF MESA ENGINEERING & DESIGN STANDARDS AND THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRIC CODE.
2. THE CITY OF MESA REQUIRES AT LEAST ONE IMSA CERTIFIED LEVEL I ROADWAY LIGHTING OR TRAFFIC SIGNAL TECHNICIAN ON SITE DURING ALL PHASES OF ANY STREET LIGHT WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE VERIFICATION OF CURRENT CERTIFICATION. IF A JOB SITE IS INSPECTED AND A CERTIFIED TECHNICIAN IS NOT ON SITE, THE JOB WILL BE SHUT DOWN.
3. CONTRACTOR SHALL SUBMIT A LIST CONTAINING NAMES AND QUALIFIED STATUS OF PERSONNEL THAT WILL BE ON THE IMMEDIATE JOB SITE TO THE INSPECTOR PRIOR TO STARTING ANY TYPE OF CONSTRUCTION. ANY CHANGE IN THIS LIST WILL REQUIRE IMMEDIATE NOTIFICATION TO THE INSPECTOR.
4. DURING THE CONSTRUCTION OR WARRANTY PERIOD, IF THE CONTRACTOR FAILS TO OR IS UNABLE TO COMPLY WITHIN TWO (2) WORKING DAYS OF A REQUEST OF THE INSPECTOR OR IF A STREET LIGHT OUTAGE MAKES IT NECESSARY FOR CITY FORCES TO DO WORK THAT IS NORMALLY THE CONTRACTOR'S RESPONSIBILITY, THE CITY WILL BE JUSTIFIED IN BILLING THE CONTRACTOR. A SEPARATE BILLING SHALL COVER EACH INCIDENT REQUIRING WORK BY CITY FORCES. THE AMOUNT OF EACH BILLING SHALL BE EITHER $350.00 OR THE ACTUAL ACCUMULATED CHARGES FOR EMPLOYEES' TIME, MATERIALS, AND EQUIPMENT, WHICHEVER IS GREATER. EMPLOYEES' TIME WILL BE BILLED AT EACH INDIVIDUAL'S HOURLY RATE PLUS THE APPLICABLE CITY OVERHEAD RATE.
5. INSPECTIONS SHALL BE REQUESTED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH THE FOLLOWING LIST:
   A. BEFORE STARTING PROJECT (PRE-JOB INSPECTION).
   B. BEFORE FILLING PULL BOX HOLES WITH AGGREGATE.
   C. BEFORE BACKFILLING TRENCH AND COVERING CONDUIT.
   D. WHEN THE POLE FOUNDATIONS ARE DUG, ANCHOR BOLTS, GROUND WIRE AND GROUND PLATE ARE READY AND IN PLACE, PRIOR TO POURING CONCRETE.
   E. BEFORE PULLING WIRE.
   F. BEFORE INSTALLATION OF FIXTURES AND PHOTOCELL.
   G. BEFORE MAKING SPLICES.
   H. WHEN PROJECT IS COMPLETED. IF NECESSARY, A LIST OF DISCREPANCIES WILL BE SUBMITTED TO THE CONTRACTOR FOR CORRECTIVE ACTION. FAILURE TO HAVE THESE ITEMS INSPECTED AND APPROVED BEFORE PROCEEDING WILL RESULT IN REJECTION OF THE WORK DONE, AND REMOVAL OF ALL SUCH WORK WILL BE REQUIRED.
6. ALL STREET LIGHTS SHALL BE CONNECTED TO THE PERMANENT POWER SUPPLY BY THE AGENCY SUPPLYING POWER. STREET LIGHT SYSTEMS WILL NOT BE ACCEPTED UNTIL THE SYSTEM HAS BEEN ENERGIZED AND FULLY OPERATIONAL FOR A MINIMUM ONE-HOUR TEST PERIOD AT RATED VOLTAGE.
7. WHERE LIGHTING CONTROL CABINETS ARE UTILIZED, STREET LIGHT CIRCUITS SHALL BE 240 VOLT. WHERE CABINETS ARE NOT USED, STREET LIGHT CIRCUITS SHALL BE 120 VOLT. ALL SERVICES SHALL BE 120/240 VOLT. ALL CONTROL CIRCUITS SHALL BE 120 VOLT.
8. BEFORE DISCONNECTING ANY EXISTING STREET LIGHTS, THE NEW LIGHT SYSTEM SHALL BE WORKING OR TEMPORARY LIGHTING INSTALLED. EXISTING STREET LIGHTS TO BE REMOVED AND NEW STREET LIGHTS SHALL NOT OPERATE AT THE SAME TIME.
9. POLES HAVING MULTIPLE LUMINAIRES SHALL HAVE TWO (2) CONDUCTORS AND ONE (1) BOND WIRE PER LUMINAIRE. THE CONDUCTORS SHALL BE MARKED AS PAIRS AT THE HAND HOLE.
10. ALL UNDERGROUND CIRCUIT CONDUCTORS SHALL BE BLACK, UNLESS OTHERWISE NOTED.
11. WHERE STREET LIGHTS OR CIRCUITS ARE 120 VOLT, ONE CONDUCTOR SHALL BE UNFUSED AND BE EITHER WHITE OR MARKED WHITE, AS REQUIRED.
12. ALL CIRCUIT CONDUCTORS IN CONDUIT SHALL BE XHHW/XHHW-2 INSULATION, EXCEPT PHOTOCELL CIRCUIT SHALL BE TRAY CABLE (SEE NOTE 13 THIS PAGE).
13. THE TRAY CABLE SHALL BE [ROME FR-EPR XHHW-2 CONDUCTORS, CPE JACKET, 600VOLTS] FRPC 4/3 (COLORS: BLACK-RED-WHITE) OR EQUIVALENT. RUN UNDERGROUND FROM THE LIGHTING CONTROL CABINET TO THE HANDHOLE OF THE PHOTOCELL LIGHT POLE, WHICH SHALL BE CONTINUOUS & WITHOUT SPLICES. FROM THE HANDHOLE UP, THREE (3) CONDUCTORS OF NO. 14 AWG THHN OR EQUIVALENT WILL BE SPLICED WITH BUTT SPLICES (NO WIRE NUTS) TO THE TERMINAL BLOCK OF THE PHOTOCELL CONTROLLED LUMINAIRE. BUTT SPLICES SHALL BE INSULATED AND THE CRIMP TYPE.
14. MINIMUM DEPTH FROM TOP OF CURB OR ROADWAY TO TOP OF CONDUIT SHALL BE TWENTY-FOUR (24) INCHES. MAXIMUM DEPTH SHALL BE FORTY-EIGHT (48) INCHES, UNLESS OTHERWISE APPROVED.
15. UNDERGROUND WIRING SHALL BE INSTALLED IN SCHEDULE 40 RIGID PVC CONDUIT, UL APPROVED FOR ABOVE GROUND AND UNDERGROUND USE WITH 90 DEGREE C WIRE. WHERE TWENTY-FOUR (24) INCHES COVER IS NOT POSSIBLE, GALVANIZED RIGID STEEL CONDUIT (GRS) SHALL BE USED.
16. GALVANIZED RIGID STEEL CONDUIT (GRS) SHALL BE DOUBLE WRAPPED WITH 20-MIL TAPE TO SIX (6) INCHES PAST THE THREADED METAL COUPLING. COMPRESSION COUPLINGS ARE NOT ALLOWED. PRIOR APPROVAL IS NEEDED FOR ANY DESIGN USING GRS CONDUIT. ALL CONDUITS SHALL BE BLOWN OUT USING 90-PSI AIR PRESSURE BEFORE PULLING WIRE.
17. A TWO-PIECE EXPANSION JOINT COUPLING SHALL BE INSTALLED IN PVC CONDUIT RUNS AT INTERVALS NOT TO EXCEED ONE-HUNDRED (100) FEET.
18. ALL FORTY-FIVE (45) AND NINETY (90) DEGREE BENDS OF CONDUIT SHALL HAVE A RADIUS OF NOT LESS THAN EIGHTEEN (18) INCHES. FACTORY BENDS ONLY SHALL BE USED.
19. ALL JOINTS BETWEEN PVC CONDUIT, COUPLINGS AND FITTINGS SHALL BE PREPARED WITH PURPLE PRIMER AND CEMENTED TOGETHER WITH GRAY PVC CEMENT.
20. THE CONDUIT LOCATIONS SHOWN ON PLANS ARE DIAGRAMMATIC REPRESENTATIONS ONLY. CONTRACTOR IS TO INSTALL CONDUIT TO AVOID CONFLICTS. THE CONTRACTOR MAY, AT HIS OPTION, BORE FOR THE PLACEMENT OF CONDUIT PER MESA STD DETAIL M-18. ALL CONDUITS SHALL BE PLACED WITHIN EXISTING RIGHT-OF-WAY UNLESS OTHERWISE APPROVED.
21. STREET LIGHT CONDUITS SHOULD BE INSTALLED PRIOR TO RESIDENTIAL DRIVEWAY INSTALLATIONS. IF STREET LIGHT CONDUIT IS INSTALLED AFTER RESIDENTIAL DRIVEWAY INSTALLATION, CONTRACTOR SHALL BORE CONDUIT UNDER DRIVEWAY. MEANDERING THE CONDUIT BEHIND THE ENTRANCE WILL NOT BE PERMITTED.
22. BACKFILL REQUIREMENTS FOR ALL TRENCHES SHALL CONFORM TO ARTICLE 300 OF THE NATIONAL ELECTRIC CODE, SECTION 601 OF THE UNIFORM STANDARD SPECIFICATIONS, AND MESA STD DETAIL M-19.4 FOR STREET TRENCH BACKFILL AND PAVEMENT REPLACEMENT.
23. WITH THE EXCEPTION OF DETACHED SIDEWALKS, PULL BOXES SHALL BE INSTALLED (SEE MESA STD DETAILS M-74.1 AND M-74.2) FIVE (5) FEET (CENTER TO CENTER) BETWEEN STREET LIGHT POLES AND PULL BOXES.
24. PHOTOCELL RECEPTACLE SHALL BE POSITIONED ON LUMINAIRE SO THAT WHEN INSTALLED, THE PHOTOCELL WILL FACE NORTH.
25. ALL SHORTING CAPS TO BE LOW PROFILE TYPE. NO HIGHER THAN 1-1/2" ABOVE SOCKET.
26. ALL PHOTOCELL CIRCUIT CONDUIT MUST BE 1-1/2" OR LARGER (TO INCLUDE CONDUIT STUBBING UP AT PHOTOCELL LIGHT POLE).
27. ALL FINISHED POLE FOUNDATIONS, SERVICE ENTRANCE SECTIONS, LIGHTING CONTROL CABINET PADS AND PULLBOXES SHALL BE AT SIDEWALK GRADE UNLESS OTHERWISE NOTED.
28. WHEN CONCRETE FOUNDATIONS ARE POURED, THEY SHALL BE VIBRATED WITH A MECHANICAL VIBRATOR.
29. POLE FOUNDATIONS SHALL CURE FOR 72 HOURS BEFORE INSTALLING LIGHT POLES OR REMOVING POLE BRACING.
30. ALL POLE FOUNDATIONS SHALL HAVE A COPPER GROUNDING PLATE PER MESA STD DETAIL M-73.6, G-101.
31. ALL STEEL POLES AND STEEL POLE PARTS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH MAG STANDARD SPECIFICATION 771.
32. ALL POLES SHALL BE WIRED USING TWO (2) NO. 12 BLACK THHN/THWN 90 DEGREE C STRANDED COPPER CONDUCTORS, 600 VOLT, NEC APPROVED AND ONE (1) NO.12 GREEN THHN/THWN STRANDED COPPER BOND WIRE GROUNDING THE LUMINAIRE. WIRES SHALL RUN FROM THE LUMINAIRE TO MINIMUM OF TWELVE (12) INCHES BELOW POLE HANDHOLE FOR TERMINATION. POLES HAVING MULTIPLE LUMINAIRES SHALL HAVE TWO (2) CONDUCTORS AND ONE (1) BOND WIRE PER LUMINAIRE, AND THE CONDUCTORS SHALL BE MARKED AS PAIRS AT THE HANDHOLE.
33. THREE WIRES SHALL BE RUN CONTINUOUSLY WITHOUT SPLICES FROM THE PHOTOCELL TO THE HAND HOLE COVER WHERE IT WILL BE BUTT SPLICED TO THE 14-4 TRAY (SEE NOTE 13 THIS PAGE). THEY SHALL BE NO. 12 THHN/THWN 90 DEGREE C STRANDED COPPER CONDUCTORS, 600 VOLT, NEC APPROVED. THE "POWER TO PHOTO" SHALL BE IDENTIFIED BY BLACK INSULATION. THE "POWER FROM PHOTO" SHALL BE IDENTIFIED BY RED INSULATION. THE NEUTRAL SHALL BE IDENTIFIED BY WHITE INSULATION.
34. ALL LIGHTING CONDUCTORS AND BOND WIRES SHALL BE COPPER.
35. ALL PVC CONDUIT RUNS SHALL CONTAIN A MINIMUM NO. 8 GREEN XHHW INSULATED SEVEN (7) STRAND COPPER BOND WIRE.
36. ALL CONDUCTORS SHALL BE STRANDED.
37. THE NO. 8 STRANDED GROUNDING WIRE IN THE CONCRETE POLE FOUNDATION GOING TO THE GROUNDING PLATE SHALL BE INSULATED WITH XHHW INSULATION THROUGH THE CONCRETE FOUNDATION AND TWO (2) INCHES EACH SIDE OF THE CONCRETE FOUNDATION.
38. ALL LIGHTING CONTROL CABINETS SHALL BE INSTALLED WITHIN TWO (2) WEEKS OF BEGINNING THE STREET LIGHT IMPROVEMENTS.
39. EACH LUMINAIRE SHALL BE FUSED BEHIND THE POLE HANDHOLE COVER USING AN HEB TYPE FUSE HOLDER WITH INSULATING BOOTS AND A 5-AMP FNM FUSE OR APPROVED EQUAL.
40. ALL FINISHED STREET LIGHT POLE FOUNDATIONS AND CONTROLLER PAD SHALL BE AT SIDEWALK GRADE AND ADJACENT TO SIDEWALK UNLESS OTHERWISE NOTED. STREET LIGHT PULL BOXES SHALL BE AT SIDEWALK GRADE AND TWELVE (12) INCHES FROM SIDEWALK UNLESS OTHERWISE NOTED. (MESA STD DETAIL M-74.2, INSTALLATION NOTE 1).
41. PROJECT SHALL BE BLUE STAKED BEFORE ANY DIGGING IS STARTED BY CALLING 602-263-1100 OR 811.
42. ALL HIGH-PRESSURE SODIUM LAMPS SHALL CONFORM TO THE APPROPRIATE LAMP SPECIFICATION FOR ITS PARTICULAR WATTAGE. SEE LAMP SPECIFICATION, MESA STD DETAIL M-71.
43. ALL SPLICES INCLUDING GROUNDS AND BONDS SHALL BE DONE WITH A GEL CAP STUB SPLICE KIT, GEL CAP #SL-2/0-3 HOLE, OTHER GEL CAP PRODUCTS OF APPROPRIATE SIZE OR APPROVED EQUAL. FOR APPROVED STREET LIGHT MATERIALS SEE: http://www.mesaaz.gov/business/engineering/approve-products-equipment-natural-gas-line-contractors.
44. STATION NUMBERS ARE APPROXIMATE. IN SUBDIVISIONS, LOCATE STREET LIGHT POLES AND LIGHTING CONTROL CABINETS ACCORDING TO LOT LINE MEASUREMENTS.
45. STREET PAVING PERMITTEE/CONTRACTOR IS HEREBY NOTIFIED THAT STREET PAVING WILL NOT BE ACCEPTED BY THE CITY OF MESA UNTIL ALL STREET LIGHTS, RETENTION BASINS AND LANDSCAPING IMPROVEMENTS ARE INSTALLED AND ACCEPTED.
46. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ALL WORK ASSOCIATED WITH THE STREET LIGHTING SYSTEM IS INSPECTED AND APPROVED BY THE CITY PRIOR TO BACKFILLING TRENCHES OR COVERING ANY WORK. CONTACT THE CITY OF MESA ENGINEERING FIELD INSPECTOR TO ARRANGE FOR STREET LIGHT SYSTEM INSPECTION.
47. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL P-301 POLES WHERE IMPACTED BY PROJECT REQUIREMENTS. ALL OTHER LIGHTING EQUIPMENT SHALL BE RETURNED TO THE LIGHTING FOREMAN (480-644-3178) WITH 48 HOURS NOTICE.

LANDSCAPE IRRIGATION GENERAL NOTES

(REVISED 02-15-18) (2018 VERSION)

1. IRRIGATION DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE INTENDED TO CONCEPTUALLY CONVEY FULL COVERAGE BY THE IRRIGATION SYSTEM. PRINTS SHALL NOT BE SCALED. IRRIGATION LINES SHALL BE PLACED IN PLANTERS AND TURF AREAS, RATHER THAN UNDER PAVEMENT, WHERE POSSIBLE. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION LAYOUT OF THE SYSTEM IN ACCORDANCE WITH THE DRAWINGS TO PROPORTIONALLY COVER THE GIVEN AREAS AS SHOWN. THE LAYOUT MAY BE MODIFIED IF NECESSARY TO OBTAIN FULL COVERAGE TO SUIT THE MANUFACTURER'S STANDARD SPECIFIED HEADS. MODIFICATIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT BEFORE ANY MODIFICATIONS ARE TO BE INSTALLED. DO NOT DECREASE THE NUMBER OF IRRIGATION HEADS OR EMITTERS INDICATED UNLESS THE LANDSCAPE ARCHITECT IS NOTIFIED IN WRITING AND HAS ACCEPTED. THE SYSTEM SHALL BE TESTED FOR COMPLETE COVERAGE AND ALL NECESSARY AND PROPER ADJUSTMENTS HAVE BEEN MADE TO GET FULL AND PROPER COVERAGE PRIOR TO ACCEPTANCE BY THE OWNER
2. PRIOR TO THE INSTALLATION OF ANY IRRIGATION SYSTEM COMPONENTS THE CONTRACTOR SHALL VERIFY THE STATIC PRESSURE OF THE AVAILABLE WATER POINT OF CONNECTION. IN THE EVENT THAT THE STATIC PRESSURE IS LESS THAN THE FIELD VERIFIED AMOUNT NOTED IN THE APPROVED PLANS AND SPECIFICATIONS THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF THE DISCREPANCY. THE LANDSCAPE ARCHITECT WILL ASSESS THE SITUATION AND ADJUST THE DESIGN IF NECESSARY. THE CONTRACTOR SHALL NOT CONTINUE IRRIGATION WORK UNTIL THE LANDSCAPE ARCHITECT HAS PROVIDED WRITTEN APPROVAL TO DO SO.
3. ALL IRRIGATION PIPE TYPE AND SIZE PER THE APPROVED PLANS AND SPECIFICATIONS. ALL MAINLINE PIPE SHALL BE NEW PVC PIPE. ALL MAINLINE FITTINGS SHALL BE ASTM 2466 OR ASTM 2464 FITTINGS. ALL LATERAL LINE PIPE SHALL BE NEW PVC PIPE. FITTINGS ON ALL PVC LATERAL LINES SHALL BE ASTM 2466 FITTINGS UNLESS OTHERWISE SHOWN ON THE PLANS AND DETAILS.
4. LIVE IRRIGATION MAINLINES SHALL BE INSTALLED A MINIMUM OF 24" BELOW FINISH GRADE. BACKFILL THE TRENCH AROUND LIVE SERVICE MAINLINES ACCORDING TO CITY OF MESA STANDARDS. LATERAL LINES SHALL BE PLACED A MINIMUM OF 18" BELOW FINISH GRADE.
5. WATER SERVICE LINE TO METER WILL BE PROVIDED BY GENERAL CONTRACTOR. WATER METER WILL BE INSTALLED BY THE CITY. INSTALL THE IRRIGATION MAINLINE TO THE BACKFLOW PREVENTION DEVICE AND WATER METER, CONNECTIONS AND BACKFLOW SHALL BE INSTALLED AS PER INDUSTRY AND CITY OF MESA STANDARDS.
6. ALL VALVES SHALL BE LOCATED IN GROUPS AS SHOWN ON DRAWINGS IN LANDSCAPE AREAS. VALVES SHALL BE LOCATED A MINIMUM OF 12" AWAY FROM ANY BUILDING, FENCE, MOWSTRIP, SIDEWALK OR CURB.
7. ALL VALVES ARE TO BE WIRED TO CONTROLLERS USING #14 AWG DIRECT BURY WIRE AND WATER-RESISTANT WIRE CONNECTORS. COMMON WIRE SHALL BE #12 AWG DIRECT BURIAL WIRE AND WATER-RESISTANT WIRE CONNECTORS. ALL VALVE WIRES UNDER PAVING SHALL BE INSTALLED IN SCHEDULE 40 PVC SLEEVES BURIED 24" DEEP. RUN ONE EXTRA WIRE FROM THE CONTROLLER TO EACH GROUP OF VALVES FOR FUTURE USE AND COIL A 48" LOOP OF WIRE IN A PULL BOX. MARK THE WIRE COIL WITH A CHRISTY TAG NOTING ITS CORRESPONDING STATION NUMBER.
8. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE NEW IRRIGATION CONTROLLER IN THE LOCATION INDICATED ON THE PLANS. CONTRACTOR IS RESPONSIBLE FOR POWER CONNECTIONS FROM THE ELECTRICAL METER AND ALL SYSTEMS.
9. PROVIDE AND INSTALL ALL THE MANUFACTURER'S RECOMMENDED SURGE AND LIGHTNING PROTECTION EQUIPMENT ON ALL CONTROLLERS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY SITE ITEMS DAMAGED DURING THE COURSE OF CONSTRUCTION WHERE CONSTRUCTION ACTIVITIES HAVE DISTURBED THE SITE INSIDE OR OUTSIDE OF THE CONTRACT LIMITS. ALL AREAS SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION. REPAIRED AREAS SHALL BE CONSTRUCTED TO PROVIDE A SMOOTH TRANSITION IN GRADING AND MATERIALS FROM EXISTING TO NEW CONSTRUCTION.
11. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF THE IRRIGATION SYSTEM SHOWING EXACT MEASURED AND DIMENSIONED LOCATIONS OF ALL VALVE BOXES, PULL BOXES, QUICK COUPLERS, METER MANIFOLD EQUIPMENT, CONTROLLERS, SLEEVES AND OTHER ITEMS. TIE DIMENSIONS TO PERMANENT FEATURES SUCH AS STRUCTURES.
12. IRRIGATION SLEEVES SHALL BE INSTALLED BENEATH ALL PAVEMENT, DRIVEWAYS AND DRAINAGE STRUCTURES THAT ARE CROSSED WITH IRRIGATION MAINLINE OR LATERAL PIPE OR CONTROLLER WIRE. ALL SLEEVES SHALL BE SCHEDULE 40 PIPE. SIZE SHALL BE 4" FOR ALL PIPING. SIZE SHALL BE 2" WHERE ONLY CONTROLLER WIRE IS PROVIDED. SLEEVES SHALL BE EXTENDED 6" INTO LANDSCAPE AREA.
13. ONLY ONE VALVE SHALL BE PROVIDED PER VALVE BOX. ALL HARDWARE SHALL BE STAINLESS STEEL. BOLTS SHALL HAVE WASHERS. EXPANSION COILS SHALL BE PROVIDED AT EACH WIRE CONNECTION IN VALVE BOX. WRAP WIRE AROUND 1/2" PVC PIPE 15 TIMES. COVER SHALL BE EMBOSSED WITH 1/2" LETTERS ON CONTROLLER AND ON VALVES WITH CORRESPONDING FIELD NUMBER.
14. ADEQUATE PRESSURE SHALL BE VERIFIED FOR ALL PIPE RUNS PRIOR TO COVERING PIPE IN TRENCHES. OWNER'S REPRESENTATIVE SHALL BE PRESENT FOR ALL IRRIGATION PRESSURE TESTING PRIOR TO COVERING TRENCHES.
15. ALL WORK AND MATERIALS MUST MEET CITY OF MESA STANDARDS.
16. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS INCLUDING ALL APPURTENANCES AND LABOR NECESSARY TO INSTALL THE COMPLETE AUTOMATIC SPRINKLER SYSTEM FROM THE METER. WATER USAGE CHARGES SHALL BE PAID BY CONTRACTOR UNTIL PROJECT FINAL ACCEPTANCE BY CITY OF MESA.
17. PROJECT RECORD DRAWINGS FOR IRRIGATION SYSTEM:
   A. MAINTAIN ON SITE AND SEPARATE FROM DOCUMENTS USED FOR CONSTRUCTION, ONE COMPLETE SET OF CONTRACT DOCUMENTS AS PROJECT RECORD DOCUMENTS. KEEP DOCUMENTS CURRENT. DO NOT PERMANENTLY COVER WORK UNTIL AS-BUILT INFORMATION IS RECORDED.
   B. RECORD PIPE AND WIRING NETWORK ALTERATIONS. RECORD WORK WHICH IS INSTALLED DIFFERENTLY THAN SHOWN ON THE CONSTRUCTION DRAWINGS. RECORD ACCURATE REFERENCE DIMENSIONS, MEASURED FROM AT LEAST TWO PERMANENT REFERENCE POINTS, OF EACH IRRIGATION SYSTEM VALVE, EACH BACKFLOW PREVENTION DEVICE, EACH CONTROLLER OR CONTROLLER UNIT, EACH SLEEVE END, EACH STUB-OUT FOR FUTURE PIPE OR WIRING CONNECTIONS, AND OTHER IRRIGATION COMPONENTS ENCLOSED WITHIN A VALVE BOX.

PARK LIGHTING GENERAL NOTES

(REVISED 02-15-12) (2018 VERSION)

1. ALL WORKMANSHIP, MATERIAL AND INSTALLATION SHALL COMPLY WITH THE CURRENT M.A.G. UNIFORM STANDARD DETAILS AND SPECIFICATIONS AS AMENDED BY THE CITY OF MESA, THE CITY OF MESA ENGINEERING & DESIGN STANDARDS AND THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRIC CODE.
2. DURING THE CONSTRUCTION OR WARRANTY PERIOD, IF THE CONTRACTOR FAILS TO OR IS UNABLE TO COMPLY WITHIN TWO (2) WORKING DAYS OF A REQUEST OF THE INSPECTOR OR IF A PARK LIGHT OUTAGE MAKES IT NECESSARY FOR CITY FORCES TO DO WORK THAT IS NORMALLY THE CONTRACTOR'S RESPONSIBILITY, THE CITY WILL BE JUSTIFIED IN BILLING THE CONTRACTOR. A SEPARATE BILLING SHALL COVER EACH INCIDENT REQUIRING WORK BY CITY FORCES. THE AMOUNT OF EACH BILLING SHALL BE EITHER $350.00 OR THE ACTUAL ACCUMULATED CHARGES FOR EMPLOYEES' TIME, MATERIALS, AND EQUIPMENT, WHICHEVER IS GREATER. EMPLOYEES' TIME WILL BE BILLED AT EACH INDIVIDUAL'S HOURLY RATE PLUS THE APPLICABLE CITY OVERHEAD RATE.
3. INSPECTIONS SHALL BE REQUESTED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH THE FOLLOWING LIST:
   A. BEFORE STARTING PROJECT (PRE-JOB INSPECTION).
   B. BEFORE FILLING PULL BOX HOLES WITH AGGREGATE.
   C. BEFORE BACKFILLING TRENCH AND COVERING CONDUIT.
   D. WHEN THE POLE FOUNDATIONS ARE DUG, ANCHOR BOLTS, GROUND WIRE AND GROUND PLATE ARE READY AND IN PLACE, PRIOR TO POURING CONCRETE.
   E. BEFORE PULLING WIRE.
   F. BEFORE INSTALLATION OF FIXTURES AND PHOTOCELL.
   G. BEFORE MAKING SPLICES.
   H. WHEN PROJECT IS COMPLETED.

   IF NECESSARY, A LIST OF DISCREPANCIES WILL BE SUBMITTED TO THE CONTRACTOR FOR CORRECTIVE ACTION. FAILURE TO HAVE THESE ITEMS INSPECTED AND APPROVED BEFORE PROCEEDING WILL RESULT IN REJECTION OF THE WORK DONE, AND REMOVAL OF ALL SUCH WORK WILL BE REQUIRED.
4. ALL PARK LIGHTING SHALL BE CONNECTED TO THE PERMANENT POWER SUPPLY BY THE AGENCY SUPPLYING POWER. STREET LIGHT SYSTEMS WILL NOT BE ACCEPTED UNTIL THE SYSTEM HAS BEEN ENERGIZED AND FULLY OPERATIONAL FOR A MINIMUM ONE-HOUR TEST PERIOD AT RATED VOLTAGE.
5. BEFORE DISCONNECTING ANY EXISTING LIGHTS, THE NEW LIGHT SYSTEM SHALL BE WORKING OR TEMPORARY LIGHTING INSTALLED. EXISTING PARK LIGHTS TO BE REMOVED AND NEW PARK LIGHTS SHALL NOT OPERATE AT THE SAME TIME.
6. POLES HAVING MULTIPLE LUMINAIRES SHALL HAVE TWO (2) CONDUCTORS AND ONE (1) BOND WIRE PER LUMINAIRE. THE CONDUCTORS SHALL BE MARKED AS PAIRS AT THE HANDHOLE. ALL UNDERGROUND CIRCUIT CONDUCTORS SHALL BE BLACK, UNLESS OTHERWISE NOTED.
7. MINIMUM DEPTH FROM FINISHED GRADE TO TOP OF CONDUIT SHALL BE THIRTY-SIX (36) INCHES. MAXIMUM DEPTH SHALL BE FORTY-EIGHT (48) INCHES, UNLESS OTHERWISE APPROVED.
8. UNDERGROUND WIRING SHALL BE INSTALLED IN SCHEDULE 40 RIGID PVC CONDUIT, UL APPROVED FOR ABOVE GROUND AND UNDERGROUND USE WITH 90 DEGREE C WIRE. WHERE THIRTY-SIX (36) INCHES COVER IS NOT POSSIBLE, GALVANIZED RIGID STEEL CONDUIT (GRS), SHALL BE USED. GRS CONDUIT SHALL BE DOUBLE WRAPPED WITH 20-MIL TAPE TO SIX (6) INCHES PAST THE THREADED METAL COUPLING. COMPRESSION COUPLINGS ARE NOT ALLOWED. PRIOR APPROVAL IS NEEDED FOR ANY DESIGN USING GRS CONDUIT.
9. ALL CONDUITS SHALL BE BLOWN OUT USING 90-PSI AIR PRESSURE BEFORE PULLING WIRE.
10. A TWO-PIECE EXPANSION JOINT COUPLING SHALL BE INSTALLED IN PVC CONDUIT RUNS AT INTERVALS NOT TO EXCEED ONE-HUNDRED (100) FEET.
11. ALL FORTY-FIVE (45) AND NINETY (90) DEGREE BENDS OF CONDUIT SHALL HAVE A RADIUS OF NOT LESS THAN EIGHTEEN (18) INCHES. FACTORY BENDS ONLY SHALL BE USED.
12. ALL JOINTS BETWEEN PVC CONDUITS, COUPLINGS & FITTINGS SHALL BE PREPARED WITH PURPLE PRIMER AND CEMENTED TOGETHER WITH GRAY PVC CEMENT.
13. THE CONDUIT LOCATIONS SHOWN ON PLANS ARE DIAGRAMMATIC REPRESENTATIONS ONLY. CONTRACTOR IS TO INSTALL CONDUIT TO AVOID CONFLICTS. THE CONTRACTOR MAY AT HIS OPTION BORE FOR THE PLACEMENT OF CONDUIT PER MESA STD DETAIL M-18 AND M-18.1. ALL CONDUITS SHALL BE PLACED WITHIN EXISTING RIGHT-OF-WAY UNLESS OTHERWISE APPROVED.
14. LIGHTING CONDUITS SHOULD BE INSTALLED PRIOR TO DRIVEWAY, PARKING LOT, OR SIDEWALK INSTALLATIONS. IF LIGHTING CONDUIT IS INSTALLED AFTER DRIVEWAY, PARKING LOT, OR SIDEWALK INSTALLATIONS, CONTRACTOR SHALL BORE CONDUIT UNDER DRIVEWAY.
15. BACKFILL REQUIREMENTS FOR ALL TRENCHES SHALL CONFORM TO ARTICLE 300 OF THE N.E.C., SECTION 601 OF THE UNIFORM STANDARD SPECIFICATIONS, AND MESA STD DETAIL M-19.4 FOR STREET TRENCH BACKFILL AND PAVEMENT REPLACEMENT.
16. WITH THE EXCEPTION OF DETACHED SIDEWALKS, PULL BOXES SHALL BE INSTALLED (SEE MESA STD DETAILS M-74.1 AND M-74.2) FIVE (5) FEET (CENTER TO CENTER) BETWEEN STREET LIGHT POLES AND PULL BOXES.
17. PHOTOCELL RECEPTACLE SHALL BE POSITIONED ON LUMINAIRE SO THAT WHEN INSTALLED THE PHOTOCELL WILL FACE NORTH.
18. ALL SHORTING CAPS TO BE LOW PROFILE TYPE. NO HIGHER THAN 1-1/2" ABOVE SOCKET.
19. ALL PHOTOCELL CIRCUIT CONDUIT MUST BE 1-1/2" OR LARGER (TO INCLUDE CONDUIT STUBBING UP AT PHOTOCELL LIGHT POLE).
20. ALL FINISHED POLE FOUNDATIONS, SERVICE ENTRANCE SECTIONS, LIGHTING CONTROL CABINET PADS AND PULLBOXES SHALL BE AT SIDEWALK GRADE UNLESS OTHERWISE NOTED.
21. WHEN CONCRETE FOUNDATIONS ARE POURED, THEY SHALL BE VIBRATED WITH A MECHANICAL VIBRATOR.
22. POLE FOUNDATIONS SHALL CURE FOR 72 HOURS BEFORE INSTALLING LIGHT POLES OR REMOVING POLE BRACING.
23. ALL POLE FOUNDATIONS SHALL HAVE A COPPER GROUNDING PLATE PER MESA STD DETAIL M-73.6, G-101.
24. ALL STEEL POLES AND STEEL POLE PARTS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH MAG STANDARD SPECIFICATION 771.
25. ALL POLES SHALL BE WIRED USING TWO (2) NO. 12 BLACK THHN/THWN 90 DEGREE C STRANDED COPPER CONDUCTORS, 600 VOLT, NEC APPROVED AND ONE (1) NO. 12 GREEN THHN/THWN STRANDED COPPER BOND WIRE GROUNDING THE LUMINAIRE. WIRES SHALL RUN FROM THE LUMINAIRE TO MINIMUM OF TWELVE (12) INCHES BELOW POLE HANDHOLE FOR TERMINATION. POLES HAVING MULTIPLE LUMINAIRES SHALL HAVE TWO (2) CONDUCTORS AND ONE (1) BOND WIRE PER LUMINAIRE, AND THE CONDUCTORS SHALL BE MARKED AS PAIRS AT THE HANDHOLE.
26. THREE WIRES SHALL BE RUN CONTINUOUSLY WITHOUT SPLICES FROM THE PHOTOCELL LIGHTING CONTROL CABINET. THEY SHALL BE NO. 12 THHN/THWN 90 DEGREE C STRANDED COPPER CONDUCTORS, 600 VOLT, NEC APPROVED. THE "POWER TO PHOTO" SHALL BE IDENTIFIED BY BLACK INSULATION. THE "POWER FROM PHOTO" SHALL BE IDENTIFIED BY RED INSULATION. THE NEUTRAL SHALL BE IDENTIFIED BY WHITE INSULATION.
27. ALL LIGHTING CONDUCTORS AND BOND WIRES SHALL BE COPPER.
28. ALL PVC CONDUIT RUNS SHALL CONTAIN A MINIMUM NO. 8 GREEM XHHW INSULATED SEVEN (7) STRAND COPPER BOND WIRE.
29. ALL CONDUCTORS SHALL BE STRANDED.
30. THE NO. 8 STRANDED GROUNDING WIRE IN THE CONCRETE POLE FOUNDATION GOING TO THE GROUNDING PLATE SHALL BE INSULATED WITH XHHW INSULATION THROUGH THE CONCRETE FOUNDATION AND TWO (2) INCHES EACH SIDE OF THE CONCRETE FOUNDATION.
31. ALL LIGHTING CONTROL CABINETS SHALL BE INSTALLED WITHIN TWO (2) WEEKS OF BEGINNING THE STREET LIGHT IMPROVEMENTS.
32. EACH LUMINAIRE SHALL BE FUSED BEHIND THE POLE HANDHOLE COVER USING AN HEB TYPE FUSE HOLDER WITH INSULATING BOOTS AND A 5-AMP FNM FUSE OR APPROVED EQUAL.
33. ALL PULLBOXES AND LIGHTING CONTROL CABINET PADS SHALL BE ADJACENT TO SIDEWALK UNLESS OTHERWISE NOTED.
34. PROJECT SHALL BE BLUE STAKED BEFORE ANY DIGGING IS STARTED BY CALLING 602-263-1100 OR 811.
35. ALL HIGH-PRESSURE SODIUM LAMPS SHALL CONFORM TO THE APPROPRIATE LAMP SPECIFICATION FOR ITS PARTICULAR WATTAGE. SEE LAMP SPECIFICATION, MESA STD DETAIL M-71.
36. ALL SPLICES INCLUDING GROUNDS AND BONDS SHALL BE DONE WITH A GEL CAP STUB SPLICE KIT, GEL CAP #SL-210-3 HOLE, OTHER GEL CAP PRODUCTS OF APPROPRIATE SIZE OR APPROVED EQUAL. FOR APPROVED STREET LIGHT MATERIALS SEE: http://www.mesaaz.gov/business/engineering/approve-products-equipment-natural-gas-line-contractors.
37. THE EXISTING LIGHT AND ELECTRICAL EQUIPMENT SHALL BE RETURNED TO THE CITY OF MESA STORAGE YARD AT 2430 NORTH CENTER STREET. CONTRACTOR SHALL CALL THE PARK MAINTENANCE FOREMAN, AT 480-644-3097, 48 HOURS PRIOR TO DELIVERING THE EQUIPMENT. CITY PARK PERSONNEL WILL OPEN THE YARD AND SUPERVISE THE LOADING, HAULING AND UNLOADING OF THIS EQUIPMENT.

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA 811 BLUE STAKE, INC.

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GENERAL NOTES

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Office: (702) 534-7555 Fax: (702) 534-1825

DATE: 16Jul24
TECH'N: –
ENGR CHK.: –
PROJ. No.: –
PROJ. ENGR.: –
PROJ. MGR.: –
REVISIONS:

LEGACY SQUARE

NORTH WEST CORNER OF 2ND AVENUE AND POMEROY
MESA
ARIZONA

DEVELOPER: WESTGATE COMPANIES
ADDRESS
1950 N 200 WEST, STE 9
CONTACT: TRAVIS
PHONE: 801-694-5202 EMAIL: TRAVIS@WESTEDLLC.COM

DIGITAL SIGNATURE:

PRINTS REQUIRE ENGINEER'S SEAL AND SIGN FOR PROOF OF VALIDITY

SHEET #: C3

LEGEND

▨	PROPOSED AC PAVEMENT
▩	WASTE MANAGEMENT ACCESS ROUTE
▭	COVERED PARKING
←	TRAFFIC DIRECTION
▬	ADA SIDEWALK RAMP

NOTES:

1. SEE SHEET C5 FOR REMOVAL PLAN.
2. SEE SHEET C6 FOR GRADING PLAN.
3. SEE SHEET C7 AND C8 FOR ROADWAY PLAN AND PROFILE.
4. SEE SHEET C9 FOR CONSTRUCTION DETAILS.
5. SEE SHEET C10 FOR UTILITY PLAN.
6. SEE SHEET C11 FOR STRIPING PLAN.

FLOOD ZONE INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS LOCATED IN ZONE UNSHADED 'X' OF THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 04021C1190E, REVISED DATE DECEMBER 4, 2007 AND IS NOT IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

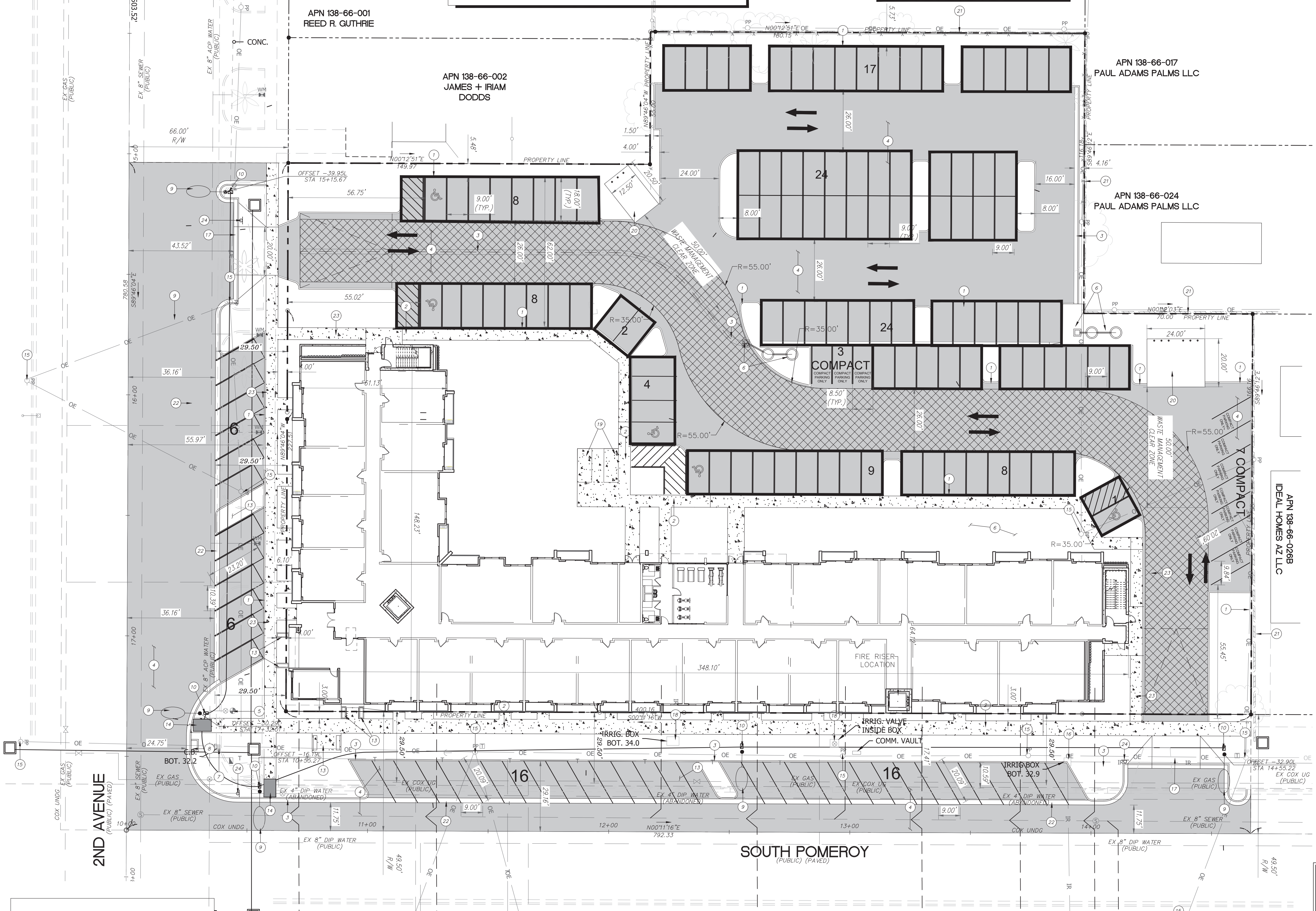
ZONE UNSHADED 'X' DENOTES AREAS OUTSIDE THE 500 YEAR FLOOD PLAIN

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

N



OWNER DEVELOPER/SUBDIVIDER

WESTATES COMPANIES
ADDRESS: 1950 N 200 WEST, STE 9
SALT LAKE CITY, UTAH 84116
PHONE: 801-694-5202
EMAIL: TRAVIS@WESTEDLLC.COM

UTILITY NOTE

ALL ABOVE GROUND UTILTIES SHALL BE RELOCATED UNDERGROUND.

SITE DATA

PARCEL NUMBER APN:
138-66-006
138-66-004
138-66-005A
138-66-007A
138-66-028A
138-66-029A

EXISTING SITE DATA
2.21 ACRES
96630.19 SF

TOTAL NUMBER OF BUILDINGS
1 BUILDINGS

NUMBER OF UNITS

20	STUDIO UNITS
44	1 BED UNITS
42	2 BED UNITS
4	3 BED UNITS

TOTAL NUMBER OF UNITS = 110

BUILDING TYPE
V-A

TOTAL BUILDING AREA
25485.17 SF
0.58 ACRES

PARKING REQUIRED
1.2 SPACES PER DWELLING UNIT
94 DWELLING UNITS = 133 PARKING STALLS
COVERED PARKING SPACES REQUIRED = 94

2.1 SPACES PER LIVE WORK UNIT
16 LIVE WORK UNITS = 34 PARKING STALLS
TOTAL PARKING REQUIRED = 147 STALLS

105 REGULAR ONSITE RESIDENTIAL COVERED PARKING STALLS
44 RESIDENTIAL ON STREET PARKING STALLS
10 COMPACT ONSITE RESIDENTIAL PARKING STALLS
TOTAL PARKING STALLS = 159

ADA PARKING STALLS REQUIRED
5 SPACES

ADA PARKING STALLS PROVIDED
5 SPACES

BIKE PARKING STALLS REQUIRED
13 SPACES

BIKE PARKING STALLS PROVIDED
16 SPACES

PAVEMENT/PARKING AREA
72373.28 SF
1.66 ACRES

ZONING

DR-2 DR-3

UTILITIES

ELECTRICITY:
ARIZONA PUBLIC SERVICE

GAS:
ARIZONA PUBLIC WORKS

TELEPHONE:
CENTURY LINK

CABLE TV:
COX

WATER:
CITY OF MESA

SEWER:
ARIZONA PUBLIC WORKS

SANITATION:
WASTER MANAGEMENT (PRIVATE)

CONSTRUCTION NOTES

1. 6" TYPE "A" CURB PER MAG DETAIL No 222
2. 6.0' ADA CONCRETE SIDEWALK PER MAG DETAIL No. 230
3. 2.0' VERTICAL CURB AND GUTTER TYPE "A" PER MAG DETAIL No 220-1
4. AC PAVEMENT
5. EXISTING FIRE HYDRANT
6. STORM WATER RETENTION SYSTEM (MAXWELL PLUS)
7. EXISTING CATCH BASIN TO BE REMOVED.
8. PROPOSED CATCH BASIN LOCATION.
9. PROPOSED STREET LIGHT LOCATION.
10. PROPOSED STREEET LIGHT PULL BOX LOCATION,
11. NOT USED
12. NOT USED
13. LANDSCAPE AREA PER LANDSCAPE IMPROVEMENTS
14. ADA SIDEWALK RAMP PER MAG DETAIL No. 235-4
15. EXISTING OVERHEAD UTILITIES TO BE RELOCATED UNDERGROUND. POWER POLE TO BE REMOVED.
16. EXISTING IRRIGATION BOX TO BE RELOCATED UNDERGROUND. TRAFFIC RATED VAULT TO BE INSTALLED.
17. COMMERCIAL DRIVEWAY PER COM STD M-42
18. EXISTING IRRIGATION BOX TO BE REMOVED.
19. BICYCLE PARKING AREA.
20. WASTE MANAGEMENT LOCATION PER COM STD M-44.05 TRASH ENCLOSURE W/BALLARDS PER COM STD M-62.02.1, M-62.04.1 AND M-62.04.2
21. 6.0' HIGH CMU WALL.
22. 2.0' VALLEY GUTTER.
23. 5.0' ADA CONCRETE SIDEWALK PER MAG DETAIL No. 230
24. PROPOSED R1-1 STOP SIGN LOCATION.

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SITE PLAN

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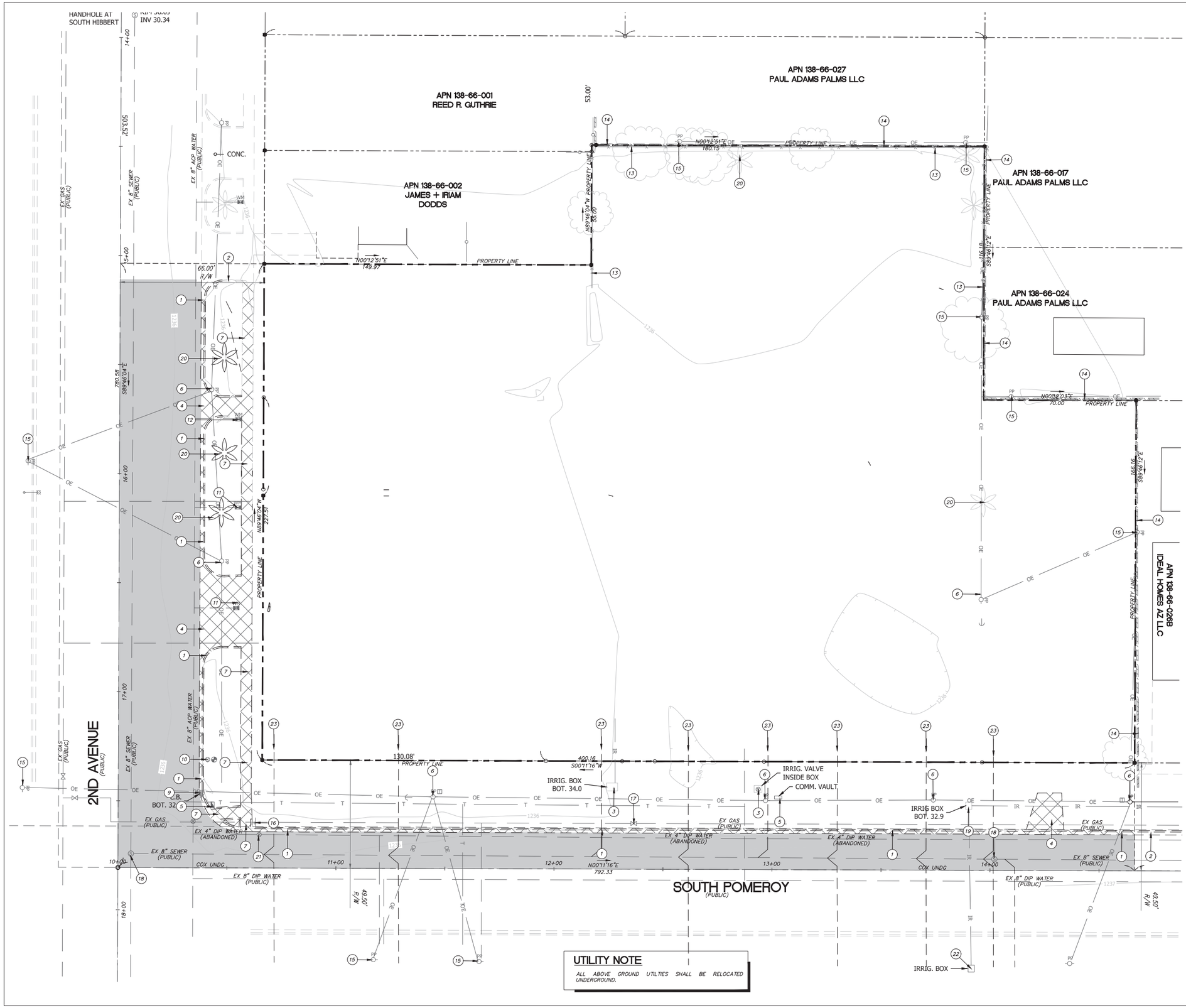
SHEET #: C4



GRAPHIC SCALE

N

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

LEGEND

- LIMITS OF EXISTING AC PAVEMENT REMOVAL
- LIMITS OF EXISTING CONCRETE REMOVAL

NOTES:

1. SEE SHEET C4 FOR SITE PLAN.
2. SEE SHEET C6 FOR GRADING PLAN.
3. SEE SHEET C7 AND C8 FOR ROADWAY PLAN AND PROFILE.
4. SEE SHEET C9 FOR CONSTRUCTION DETAILS.
5. SEE SHEET C10 FOR UTILITY PLAN,
6. SEE SHEET C11 FOR STRIPPING PLAN.

REMOVAL NOTES

1. EXISTING CURB AND GUTTER TO BE REMOVED.
2. EXISTING CURB AND GUTTER TO REMAIN. PROTECT IN PLACE.
3. EXISTING IRRIGATION BOX TO BE REMOVED.
4. EXISTING CONCRETE DRIVEWAY TO BE REMOVED.
5. EXISTING COMM VAULT TO REMAIN. PROTECT IN PLACE.
6. EXISTING POWER POLE TO BE REMOVED. OVERHEAD POWER LINES TO BE RELOCATED UNDERGROUND.
7. EXISTING SIDEWALK TO BE REMOVED.
8. EXISTING SIDEWALK TO REMAIN. PROTECT IN PLACE.
9. EXISTING CATCH BASIN TO REMAIN. PROTECT IN PLACE.
10. EXISTING FIRE HYDRANT TO REMAIN. PROTECT IN PLACE.
11. EXISTING WATER METER TO BE REMOVED.
12. EXISTING WATER METER TO BE RELOCATED.
13. EXISTING FENCE TO BE REMOVED.
14. EXISTING WALL TO REMAIN. PROTECT IN PLACE.
15. EXISTING POWER POLE TO REMAIN. PROTECT IN PLACE.
16. EXISTING SIGN TO REMAIN. PROTECT IN PLACE.
17. EXISTING GAS VALVE TO REMAIN. PROTECT IN PLACE.
18. EXISTING SEWER MANHOLE TO REMAIN. PROTECT IN PLACE.
19. EXISTING IRRIGATION BOX TO BE RELOCATED.
20. EXISTING TREE TO BE REMOVED.
21. EXISTING WATER VALVE TO BE REMOVED.
22. EXISTING IRRIGATION BOX TO REMAIN. PROTECT IN PLACE.
23. EXISTING SEWER LATERAL TO BE REMOVED.

FLOOD ZONE INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS LOCATED IN ZONE UNSHADED 'X' OF THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 04021C1190E, REVISED DATE DECEMBER 4, 2007 AND IS NOT IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

ZONE UNSHADED 'X' DENOTES AREAS OUTSIDE THE 500 YEAR FLOOD PLAIN

UTILITY NOTE

ALL ABOVE GROUND UTILTIES SHALL BE RELOCATED UNDERGROUND.

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TECH: --
ENGR. CHK.: --
PROJ. No.: --
PROJ. ENGR.: --
PROJ. MGR.: --
REVISIONS: - -

REMOVAL PLAN

LEGACY SQUARE

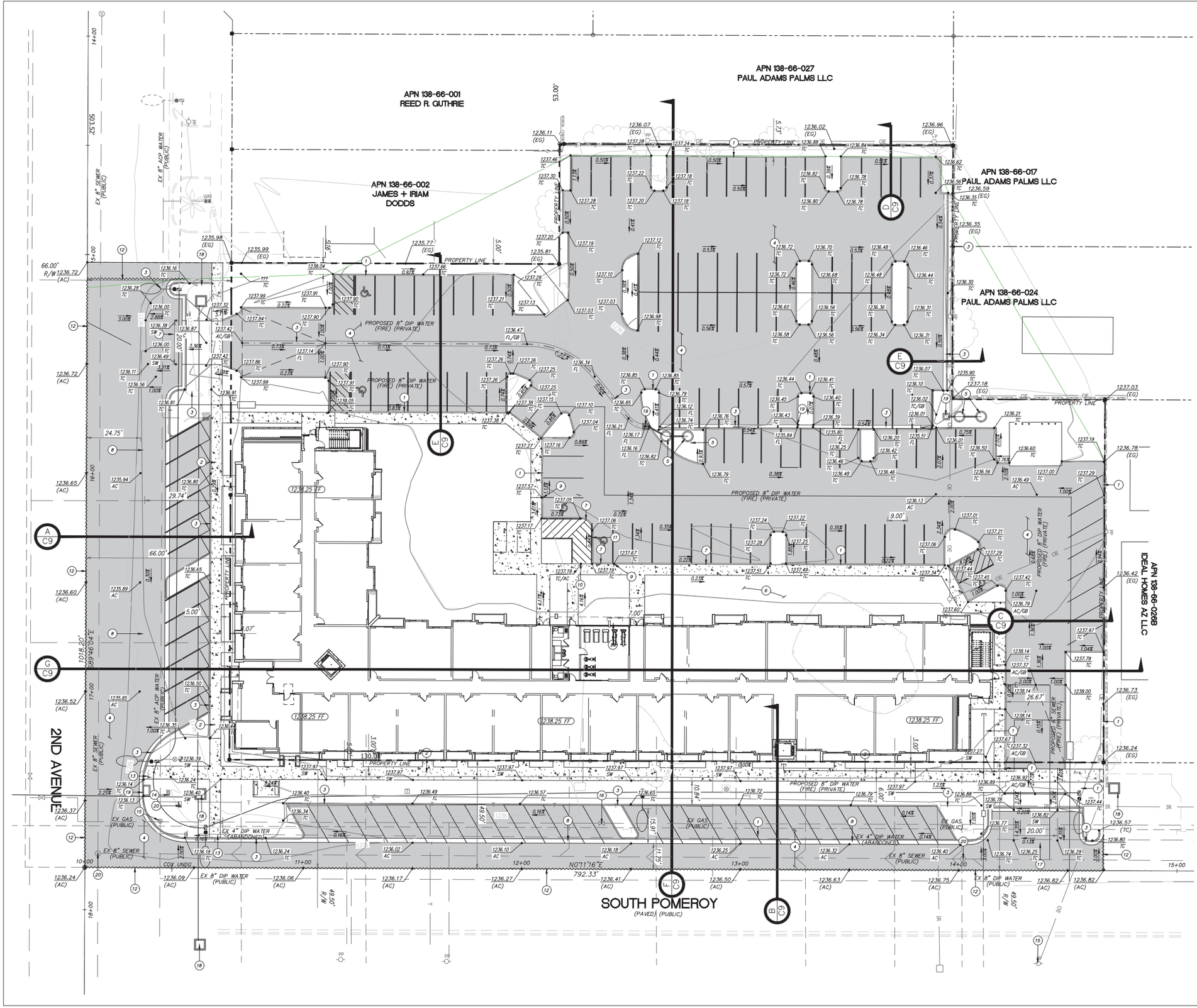
NORTH WEST CORNER OF 2ND AVENUE AND POMEROY
MESA
ARIZONA
DEVELOPER:WESTGATE COMPANIES
ADDRESS
1950 N 200 WEST, STE 9
CONTACT:TRAVIS
PHONE:801-694-5202 EMAIL: TRAVIS@WESTEDLLC.COM

DIGITAL SIGNATURE:

PRINTS REQUIRE ENGINEER'S SEAL AND SIGN FOR PROOF OF VALIDITY

SHEET #: C5

1 OF 2



LEGEND

PROPOSED AC PAVEMENT

NOTES:

1. SEE SHEET C4 FOR SITE PLAN.
2. SEE SHEET C5 FOR REMOVAL PLAN.
3. SEE SHEET C7 AND C8 FOR ROADWAY PLAN AND PROFILE.
4. SEE SHEET C9 FOR CONSTRUCTION DETAILS.
5. SEE SHEET C10 FOR UTILITY PLAN,

CONSTRUCTION NOTES

1. 6" "A" CURB PER MAG DETAIL No. 222
2. 5.0' CONCRETE SIDEWALK PER MAG DETAIL No 230
3. INSTALL 2.0' VERTICAL CURB PER MAG DETAIL No. 220-1
4. AC PAVEMENT
5. STORM WATER RETENTION SYSTEM (MAXWELL PLUS) SEE DETAIL X SHEET X.
6. LANDSCAPE AREA PER LANDSCAPE IMPROVEMENTS
7. INSTALL ZERO FACE CURB. SEE DETAIL X SHEET C8
8. INSTALL 2.0' CONCRETE VALLEY GUTTER.
9. BEGIN ZERO FACE CURB TRANSITION.
10. END ZERO FACE CURB TRANSITION.
11. ZERO FACE CURB TRANSITION AREA.
12. SAWCUT AND MATCH EXISTING AC PAVEMENT.
13. ADA SIDEWALK RAMP PER MAG DETAIL No. 235-4
14. EXISTING CATCH BASIN TO BE REMOVED.
15. EXISTING VALVE TO REMAIN. ADJUST RIM TO FINISHED GRADE.
16. EXISTING GAS VALVE TO REMAIN. INSTALL TRAFFIC VAULT AND COVER.
17. INSTALL COMMERCIAL DRIVEWAY PER COM STD M-42
18. INSTALL COMMERCIAL POWER/COMMUNICATIONS PULL BOX VAULT
19. INSTALL 24"X24" CATCH BASIN TYPE G PER MAG DETAIL No 537 AND RECONNECT TO EXISTING STORM DRAIN
20. ADJUST RIM TO FINISHED GRADE
21. INSTALL CONCRETE SIDEWALK PER MAG DETAIL No 230

FLOOD ZONE INFORMATION

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ZONE UNSHADED "X" DENOTES AREAS OUTSIDE THE 500 YEAR FLOOD PLAIN

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ENGR. CHK.: --
PROJ. No.: --
PROJ. ENGR.: --
PROJ. MGR.: --
REVISIONS: - - - - - -

GRADING PLAN

THE LOFTS LEGACY SQUARE

NORTH WEST CORNER OF 2ND AVENUE AND POMEROY
MESA
ARIZONA

DEVELOPER: WESTSTATES COMPANIES LLC
1950 N 2200 WEST, STE 9
SALT LAKE CITY, UTAH 84116
CONTACT: TRAVIS TAYLOR
PHONE: 804-694-5202 EMAIL: TTAYLOR@WESTCOLLC.COM

DIGITAL SIGNATURE:

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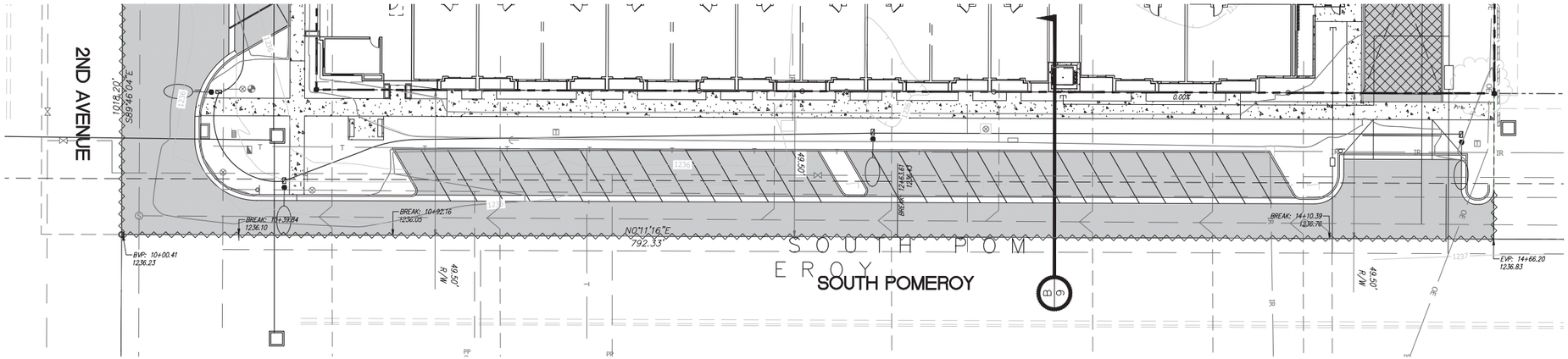
SHEET #: C6

1 OF 1



PLAN VIEW

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

N

LEGEND

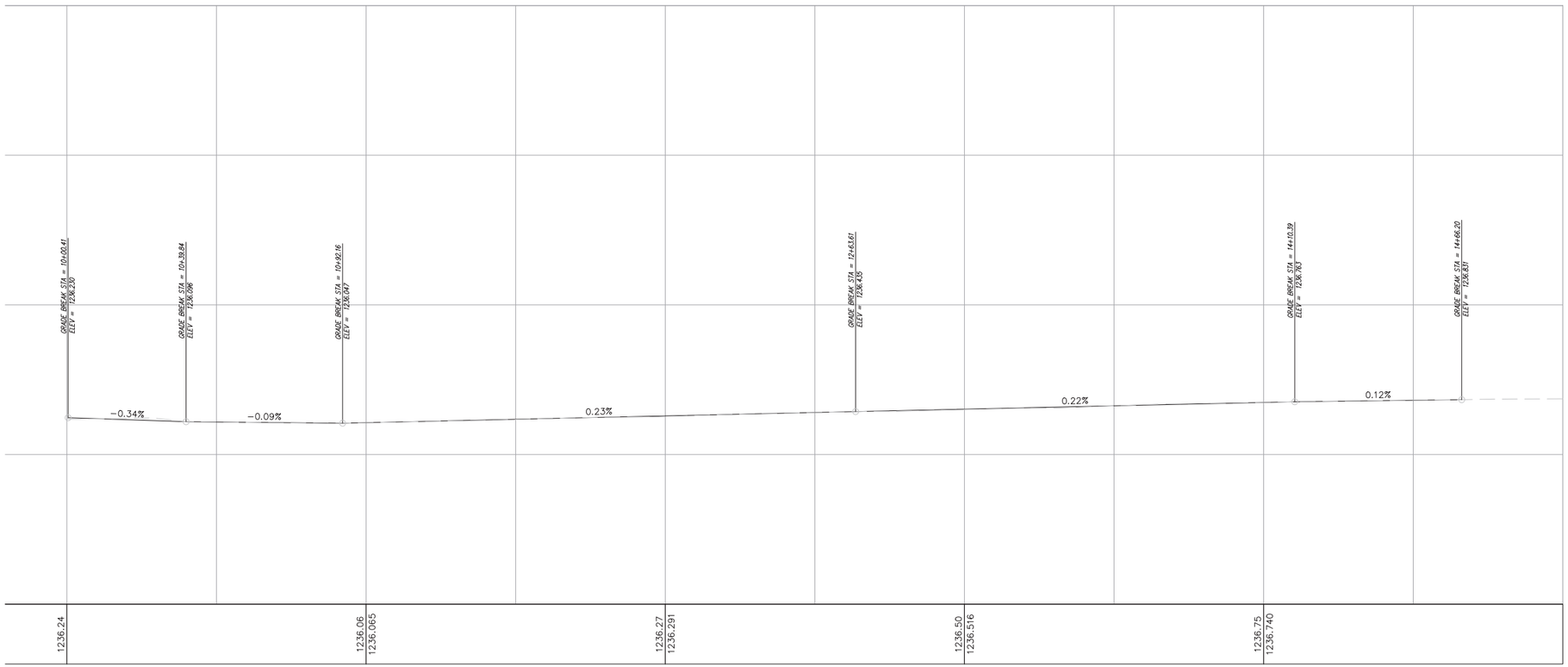
PROPOSED AC PAVEMENT

NOTES:

1. SEE SHEET C4 FOR SITE PLAN.
2. SEE SHEET C5 FOR REMOVAL PLAN.
3. SEE SHEET C7 AND C8 FOR ROADWAY PLAN AND PROFILE.
4. SEE SHEET C9 FOR CONSTRUCTION DETAILS.
5. SEE SHEET C10 FOR UTILITY PLAN,
6. SEE SHEET C11 FOR STRIPPING PLAN.

CONSTRUCTION NOTES

1. 6" "A" CURB PER MAG DETAIL No. 2222
2. 5.0' CONCRETE SIDEWALK PER MAG DETAIL No 230
3. INSTALL 2.0' VERTICAL CURB PER MAG DETAIL No. 220-1
4. AC PAVEMENT
5. STORM WATER RETENTION SYSTEM (MAXWELL PLUS) SEE DETAIL X SHEET X.
6. LANDSCAPE AREA PER LANDSCAPE IMPROVEMENTS
7. INSTALL ZERO FACE CURB. SEE DETAIL X SHEET C8
8. INSTALL 2.0' CONCRETE VALLEY GUTTER.
9. BEGIN ZERO FACE CURB TRANSITION.
10. END ZERO FACE CURB TRANSITION.
11. ZERO FACE CURB TRANSITION AREA.
12. SAWCUT AND MATCH EXISTING AC PAVEMENT.
13. ADA SIDEWALK RAMP PER MAG DETAIL No. 235-4
14. EXISTING CATCH BASIN TO REMAIN.
15. EXISTING VALVE TO REMAIN. ADJUST RIM TO FINISHED GRADE.
16. EXISTING GAS VALVE TO REMAIN. INSTALL TRAFFIC VAULT AND COVER.



PROFILE VIEW

FLOOD ZONE INFORMATION

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ZONE UNSHADED 'X' DENOTES AREAS OUTSIDE THE 500 YEAR FLOOD PLAIN

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ROADWAY PLAN AND PROFILE

THE LOFTS LEGACY SQUARE

NORTH WEST CORNER OF 2ND AVENUE AND POMEROY
MESA
ARIZONA

DEVELOPER:WESTSTATES COMPANIES LLC
1950 N 2200 WEST, STE 9
SALT LAKE CITY, UTAH 84116
CONTACT:TRAVIS TAYLOR
PHONE:804-694-5202 EMAIL:TTAYLOR@WESTCOLLC.COM

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PROJ. ENGR: --
PROJ. MGR: --
REVISIONS

DATE: 16Jul24
TECH: --
ENGR. CHK: --

DIGITAL SIGNATURE:

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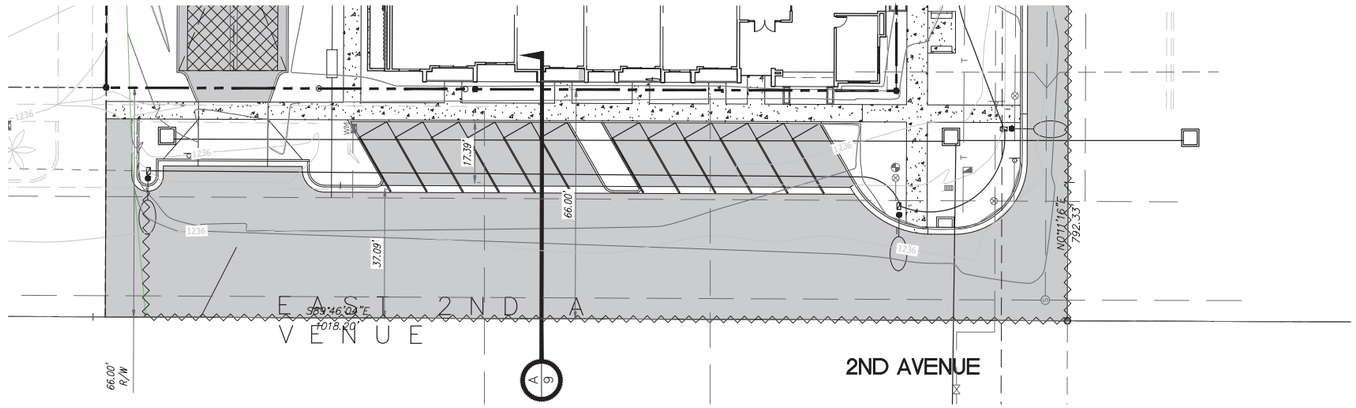
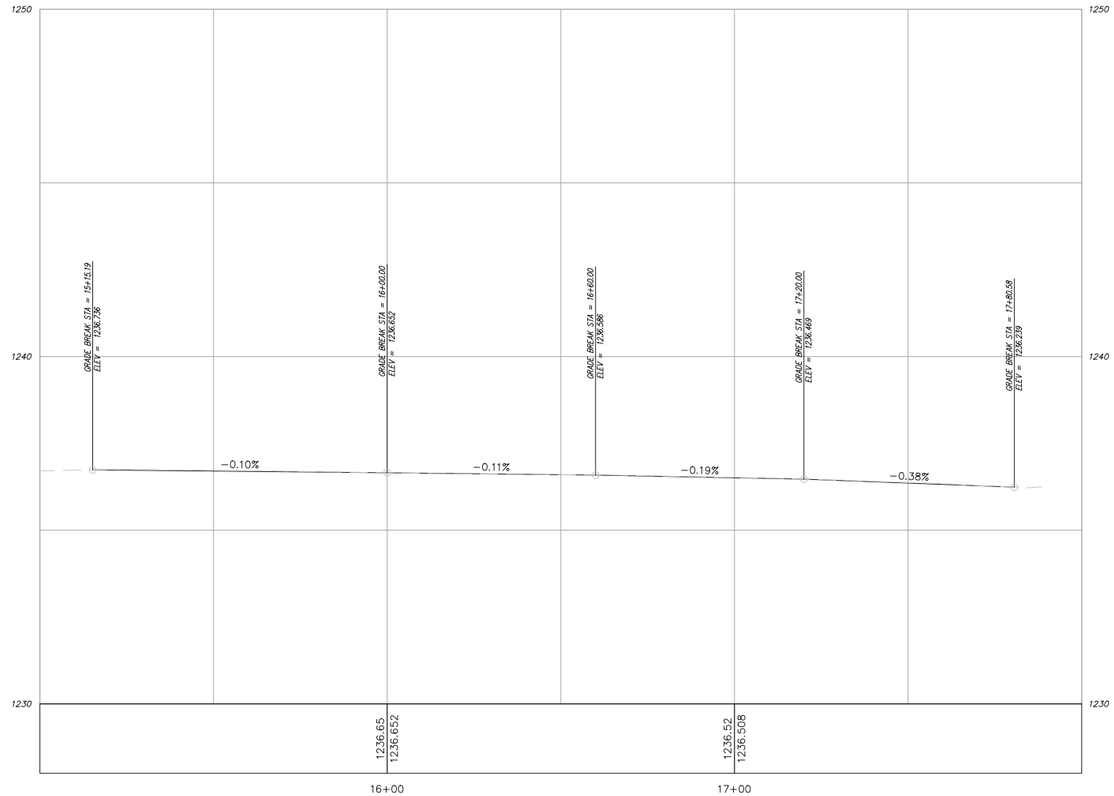
SHEET #: C7
1 OF 1



PLAN VIEW



PROFILE VIEW

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft

N

LEGEND

PROPOSED AC PAVEMENT

NOTES:

1. SEE SHEET C4 FOR SITE PLAN.
2. SEE SHEET C5 FOR REMOVAL PLAN.
3. SEE SHEET C7 AND C8 FOR ROADWAY PLAN AND PROFILE.
4. SEE SHEET C9 FOR CONSTRUCTION DETAILS.
5. SEE SHEET C10 FOR UTILITY PLAN,
6. SEE SHEET C11 FOR STRIPPING PLAN.

CONSTRUCTION NOTES

1. 6" "A" CURB PER MAG DETAIL No. 2222
2. 5.0' CONCRETE SIDEWALK PER MAG DETAIL No 230
3. INSTALL 2.0' VERTICAL CURB PER MAG DETAIL No. 220-1
4. AC PAVEMENT
5. STORM WATER RETENTION SYSTEM (MAXWELL PLUS) SEE DETAIL X SHEET X.
6. LANDSCAPE AREA PER LANDSCAPE IMPROVEMENTS
7. INSTALL ZERO FACE CURB. SEE DETAIL X SHEET C8
8. INSTALL 2.0' CONCRETE VALLEY GUTTER.
9. BEGIN ZERO FACE CURB TRANSITION.
10. END ZERO FACE CURB TRANSITION.
11. ZERO FACE CURB TRANSITION AREA.
12. SAWCUT AND MATCH EXISTING AC PAVEMENT.
13. ADA SIDEWALK RAMP PER MAG DETAIL No. 235-4
14. EXISTING CATCH BASIN TO REMAIN.
15. EXISTING VALVE TO REMAIN. ADJUST RIM TO FINISHED GRADE.
16. EXISTING GAS VALVE TO REMAIN. INSTALL TRAFFIC VAULT AND COVER.

FLOOD ZONE INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS LOCATED IN ZONE UNSHADED 'X' OF THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 04021C1190E, REVISED DATE DECEMBER 4, 2007 AND IS NOT IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

ZONE UNSHADED 'X' DENOTES AREAS OUTSIDE THE 500 YEAR FLOOD PLAIN

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ROADWAY PLAN AND PROFILE

THE LOFTS LEGACY SQUARE

NORTH WEST CORNER OF 2ND AVENUE AND POMEROY
MESA
ARIZONA

DEVELOPER:WESTSTATES COMPANIES LLC
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SALT LAKE CITY, UTAH 84116
CONTACT:TRAVIS TAYLOR
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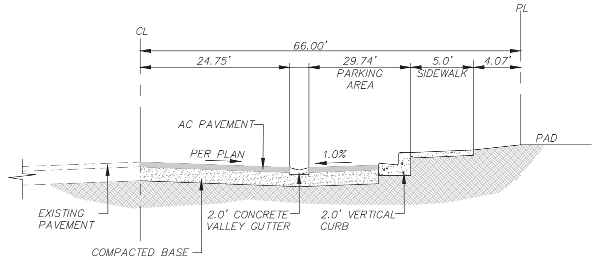
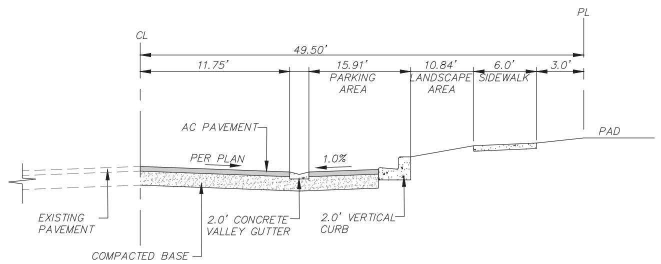
SHEET # C8

1 OF 1



(A) SECTION
NO SCALE



(B) SECTION
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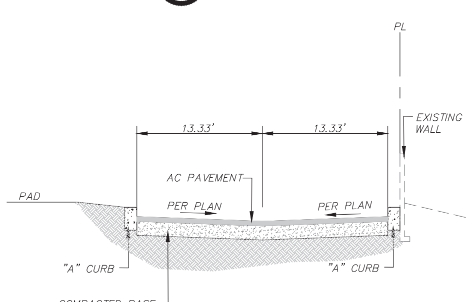
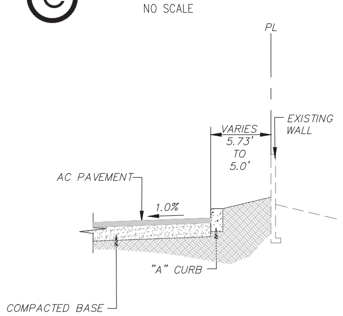


(C) SECTION
NO SCALE



(D) SECTION
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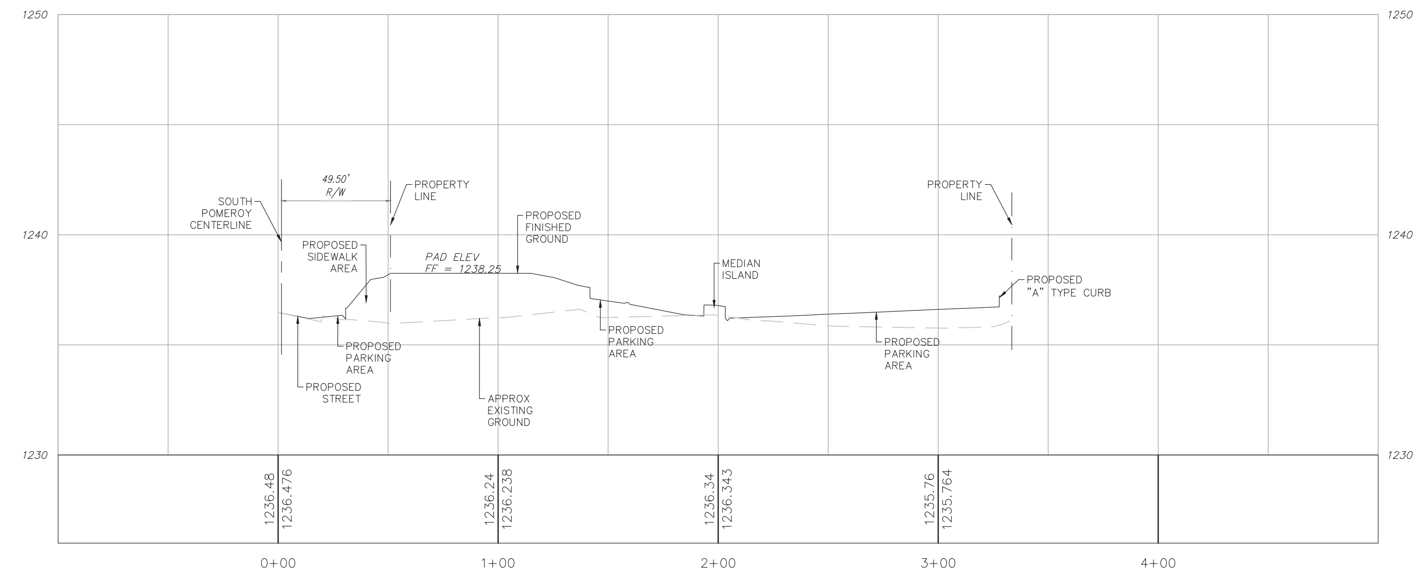

(F) SECTION
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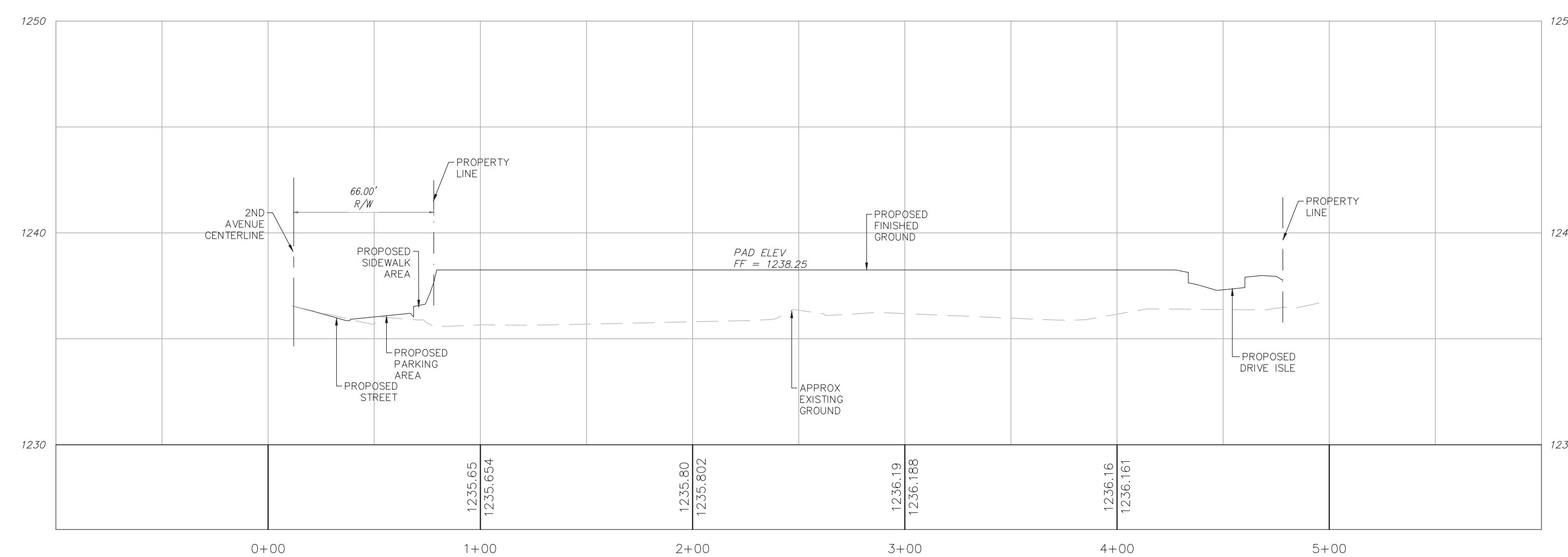

(G) SECTION
NO SCALE

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PROJ. No.: –
PROJ. ENGR.: –
PROJ. MGR.: –
REVISIONS:

TYPICALL SECTIONS AND DETAILS

THE LOFTS LEGACY SQUARE
NORTH WEST CORNER OF 2ND AVENUE AND POMEROY
MESA
ARIZONA

DEVELOPER:WESTSTATES COMPANIES LLC
1950 N 2200 WEST, STE 9
SALT LAKE CITY, UTAH 84116
CONTACT:TRAVIS TAYLOR
PHONE:804-694-5202 EMAIL: TTAYLOR@WESTCOLLC.COM

DIGITAL SIGNATURE:

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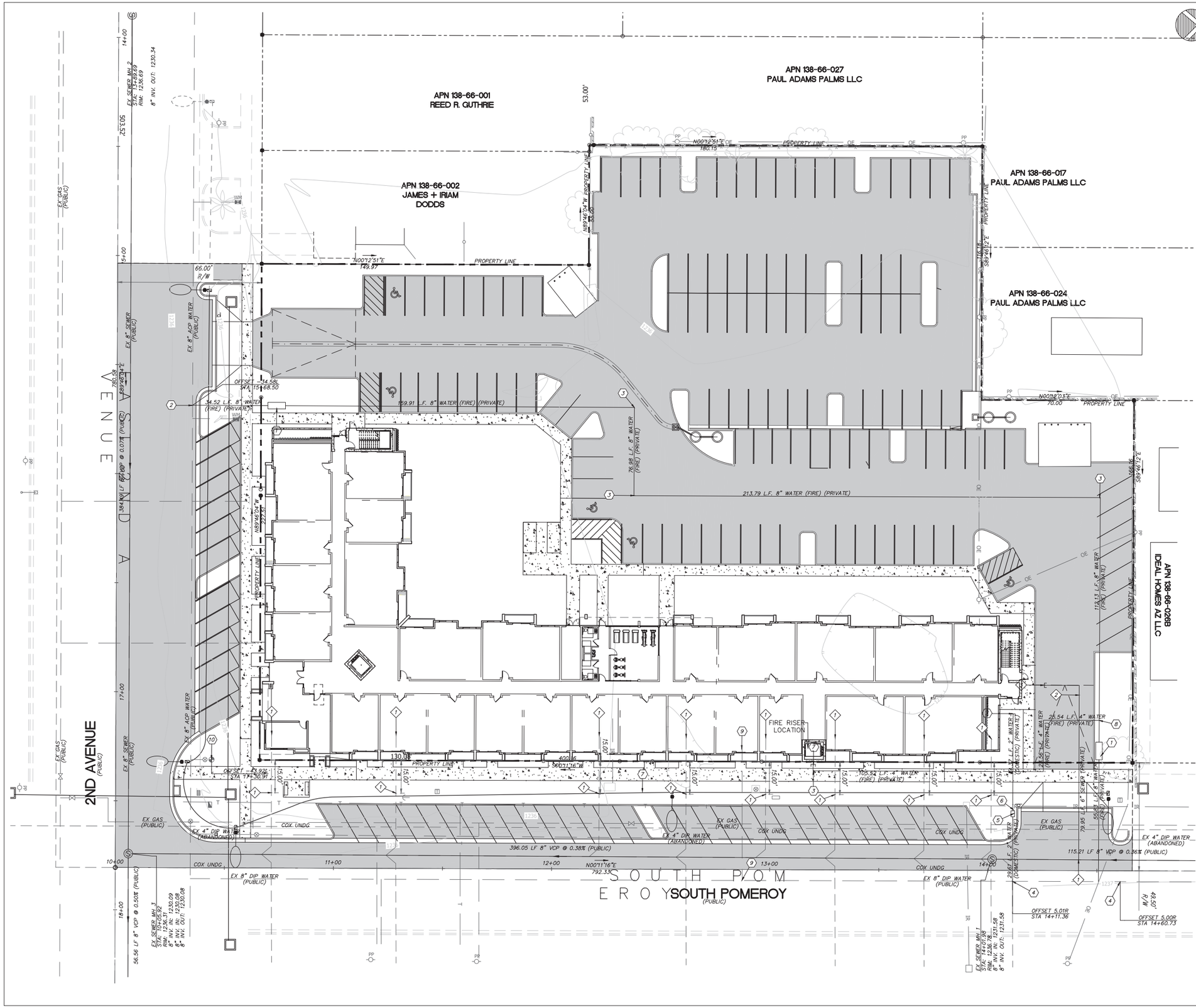
SHEET #: C9
2 OF 2



GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

NOTES:

1. SEE SHEET C4 FOR SITE PLAN.
2. SEE SHEET C5 FOR REMOVAL PLAN.
3. SEE SHEET C6 FOR GRADING PLAN.
4. SEE SHEET C7 AND C8 FOR ROADWAY PLAN AND PROFILE.
5. SEE SHEET C8 FOR CONSTRUCTION DETAILS.
6. SEE SHEET C11 FOR STRIPPING PLAN.

WATER CONSTRUCTION NOTES:

1. INSTALL 4" FIRE WATER METER ASSEMBLY PER COM DETAIL M-27.01.1 AND M-27.01.2
2. INSTALL TAPPING SLEEVE PER MAG DETAIL 340.
3. INSTALL 90° ELBOW (MATCH SIZE AND MATERIAL).
4. INSTALL TAPPING SLEEVE PER MAG DETAIL 340.
5. INSTALL 1-1/2" DOMESTIC WATER METER PER MAG DETAIL M-29.01
6. INSTALL REDUCED PRESSURE BACK FLOW ASSEMBLY PER MAG DETAIL M-29.01
7. STUB AND CAP FOR BUILDING CONNECTION.
8. INSTALL TEE (MATCH SIZE AND MATERIAL).
9. EXISTING WATER LATERAL TO BE ABANDONED. CORPORATION STOP TO BE CLOSED AT THE SERVICE SADDLE. EXISTING WATER LINE TO BE CUT WITHIN 12 INCHES OF THE CONNECTION TO THE MAIN.
10. EXISTING FIRE HYDRANT TO REMAIN. PROTECT IN PLACE.

SEWER CONSTRUCTION NOTES:

1. INSTALL 6" SEWER LATERAL PER MAG DETAIL 440-3
2. INSTALL SDR-35 SEWER
3. STUB AND CAP FOR BUILDING CONNECTION.
4. EXISTING SEWER LATERAL TO BE REMOVED. STUB AND CAP 15' BEYOND PROPERTY LINE. (TYP.)

FLOOD ZONE INFORMATION

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ZONE UNSHADED 'X' DENOTES AREAS OUTSIDE THE 500 YEAR FLOOD PLAIN

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DATE: 16Jul24
TECH:
ENGR CHK:
PROJ. No.:
PROJ. ENGR.:
PROJ. MGR.:
REVISIONS

UTILITY PLAN

LEGACY SQUARE

NORTH WEST CORNER OF 2ND AVENUE AND POMEROY
MESA
ARIZONA
DEVELOPER: WESTGATE COMPANIES
ADDRESS
1950 N 200 WEST, STE 9
CONTACT: TRAVIS
PHONE: 801-694-5202 EMAIL: TRAVIS@WESTEDLLC.COM

DIGITAL SIGNATURE:

PRINTS REQUIRE ENGINEER'S SEAL AND SIGN FOR PROOF OF VALIDITY

SHEET #: C10

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.

N

APN 138-66-001
REED R. GUTHRIE

APN 138-66-027
PAUL ADAMS PALMS LLC

APN 138-66-002
JAMES + IRIAM
DODDS

APN 138-66-017
PAUL ADAMS PALMS LLC

APN 138-66-024
PAUL ADAMS PALMS LLC

LEGEND

PROPOSED AC PAVEMENT

TRAFFIC DIRECTION

NOTES:

1. SEE SHEET C5 FOR REMOVAL PLAN.
2. SEE SHEET C6 FOR GRADING PLAN.
3. SEE SHEET C7 AND C8 FOR ROADWAY PLAN AND PROFILE.
4. SEE SHEET C9 FOR CONSTRUCTION DETAILS.
5. SEE SHEET C10 FOR UTILITY PLAN.

CONSTRUCTION NOTES

1. SINGLE 6" SOLID YELLOW PAVEMENT STRIPING.
2. 6" WHITE 10' DASHED PAVEMENT LANE STRIPING.
3. 10' CROSS WALK PER ADOT DETAIL M-2
4. 18" STOP BAR PER ADOT DETAIL M-2
5. TWO 6" SOLID YELLOW PAVEMENT STRIPING

OWNER DEVELOPER/SUBDIVIDER

WESTATES COMPANIES
ADDRESS: 1950 N 200 WEST, STE 9
SALT LAKE CITY, UTAH 84116
PHONE: 801-694-5202
EMAIL: TRAVIS@WESTEDLLC.COM

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TECH:
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PROJ. ENGR.: --
PROJ. MGR.: --
REVISIONS

STRIPING PLAN

LEGACY SQUARE

NORTH WEST CORNER OF 2ND AVENUE AND POMEROY
MESA
ARIZONA
DEVELOPER: WESTGATE COMPANIES
ADDRESS
1950 N 200 WEST, STE 9
CONTACT: TRAVIS
PHONE: 801-694-5202 EMAIL: TRAVIS@WESTEDLLC.COM

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SHEET #: C11
11 OF 2