

JSA CIVIL GENERAL CONSTRUCTION NOTES

- ALL WORK, WORKMANSHIP AND MATERIALS FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE FOLLOWING MANUAL(S) AND DOCUMENT(S):
 - CITY OF SURPRISE ENGINEERING DEVELOPMENT STANDARDS MANUAL, 2021 EDITION
[HTTPS://CONTENT.CIVICPLUS.COM/API/ASSETS/549EDDEE-FD24-4C43-9C6B-036AC02221E0](https://CONTENT.CIVICPLUS.COM/API/ASSETS/549EDDEE-FD24-4C43-9C6B-036AC02221E0)
 - CITY OF SURPRISE SUPPLEMENTAL ENGINEERING DEVELOPMENT STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, JANUARY 2022
[HTTPS://CONTENT.CIVICPLUS.COM/API/ASSETS/AZ-SURPRISE/A828718E-22E1-4B04-BE5F-85186C42880B](https://CONTENT.CIVICPLUS.COM/API/ASSETS/AZ-SURPRISE/A828718E-22E1-4B04-BE5F-85186C42880B)
 - CITY OF SURPRISE PLANNING AND ENGINEERING DESIGN STANDARDS
[HTTPS://CONTENT.CIVICPLUS.COM/API/ASSETS/2F8891FE-D71A-49ED-8949-1600B5A81FAF?SCOPE=ALL](https://CONTENT.CIVICPLUS.COM/API/ASSETS/2F8891FE-D71A-49ED-8949-1600B5A81FAF?SCOPE=ALL)
 - EPCOR 2020 DEVELOPER & ENGINEERING GUIDE
[HTTPS://WWW.EPCOR.COM/CONTENT/DAM/EPCOR/DOCUMENTS/SUPPORTING-DOCUMENTS/2020_DEVELOPER-ENGINEERING-GUIDE.PDF](https://WWW.EPCOR.COM/CONTENT/DAM/EPCOR/DOCUMENTS/SUPPORTING-DOCUMENTS/2020_DEVELOPER-ENGINEERING-GUIDE.PDF)
 - MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION (2024)
[HTTPS://AZMAG.GOV/PORTALS/0/DOCUMENTS/MAGCONTENT/2020_MAG_UNIFORM_STANDARD_DETAILS_FOR_PUBLIC_WORKS_CONSTRUCTION_SPECS_FINAL.PDF?VER=2019-12-30-103511-630](https://AZMAG.GOV/PORTALS/0/DOCUMENTS/MAGCONTENT/2020_MAG_UNIFORM_STANDARD_DETAILS_FOR_PUBLIC_WORKS_CONSTRUCTION_SPECS_FINAL.PDF?VER=2019-12-30-103511-630)
 - FCDMO DRAINAGE DESIGN MANUAL FOR MARICOPA COUNTY, VOLUME III, EROSION CONTROL
[HTTPS://WWW.MARICOPA.GOV/DOCUMENTCENTER/VIEW/2368/DRAINAGE-DESIGN-MANUAL-FOR-MARICOPA-COUNTY-VOLUME-III-EROSION---REVISED-73018-PDF](https://WWW.MARICOPA.GOV/DOCUMENTCENTER/VIEW/2368/DRAINAGE-DESIGN-MANUAL-FOR-MARICOPA-COUNTY-VOLUME-III-EROSION---REVISED-73018-PDF)
 - PRASADA PLANNED AREA DEVELOPMENT
[HTTPS://CONTENT.CIVICPLUS.COM/API/ASSETS/97DF4DF1-4DC3-41F6-8359-D9A131D6EE73?CACHE=1800](https://CONTENT.CIVICPLUS.COM/API/ASSETS/97DF4DF1-4DC3-41F6-8359-D9A131D6EE73?CACHE=1800)
 - GEOTECHNICAL REPORT FINALIZED BY TERRACON ON DECEMBER 13, 2024
- ALL GOVERNMENTAL SAFETY REGULATIONS SHALL BE STRICTLY ADHERED TO INCLUDING OSHA.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DULY NOTIFY THE CITY OF SURPRISE AND EPCOR IN ADVANCE OF THE COMMENCEMENT OF ANY AUTHORIZED WORK AND TO SCHEDULE REQUIRED INSPECTIONS. ANY REQUIRED INSPECTION TEST WILL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
- THE APPROVAL OF THESE PLANS BY THE CITY OF SURPRISE AND EPCOR DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE REQUIREMENTS OF OTHER GOVERNING AGENCIES.
- CAUTION – NOTICE TO CONTRACTOR**
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE PROJECT SURVEY AND OTHER RECORDS OF UTILITIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CALL FOR UTILITY LOCATES 48 HOURS PRIOR TO PLANNED EXCAVATIONS.
- THE DESIGN SHOWN IS BASED UPON THE ENGINEER'S UNDERSTANDING OF THE EXISTING CONDITIONS. THE EXISTING CONDITIONS SHOWN ON THIS PLAN SET ARE BASED UPON COMPILED SURVEY DATA. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FIELD CONDITIONS PRIOR TO BIDDING THE PROPOSED WORK IMPROVEMENTS. IF CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE.
- EXISTING UTILITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY EXACT LOCATION, DIAMETER, LENGTH, CONDITION, PIPE TYPE, SLOPE, AND VERTICAL AND HORIZONTAL ALIGNMENT OF THE EXISTING ALIGNMENT OF THE PROPOSED POINTS OF CONNECTION PRIOR TO CONNECTION AND REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO INSTALLATION OF THE PROPOSED UTILITIES.
- PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL, STATE, AND FEDERAL APPROVALS AND PERMITS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE APPROVED PLANS, SPECIFICATIONS, CONSTRUCTION SWPP, AND CONTRACT DOCUMENTS AT THE CONSTRUCTION SITE AT ALL TIMES.
- CONSTRUCTION SIGNING AND TRAFFIC CONTROL SHALL BE PER THE CURRENT COPY OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE CONTRACTOR SHALL PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY OF SURPRISE AND EPCOR AND OBTAIN APPROVAL PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
- ALL VEHICLES AND EQUIPMENT SHALL BE KEPT WITHIN THE WORK AREAS ESTABLISHED FOR THAT WORK SHIFT UNLESS TRAVELING TO OR FROM THE SITE. UNDER NO CIRCUMSTANCES SHALL VEHICLES BE PARKED OR EQUIPMENT BE STORED OUTSIDE OF THESE AREAS.
- OTHER CONSTRUCTION PROJECTS MAY OCCUR NEAR THE PROJECT SITE AND MAY BE IN PROGRESS CONCURRENT WITH THE PROJECT. THE CONTRACTOR SHALL COOPERATE AS NECESSARY AND NOT INTERFERE OR HINDER THE PROGRESS OR COMPLETION OF WORK BEING PERFORMED BY OTHER CONTRACTORS.
- THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN ON THESE DRAWINGS AND TO OBTAIN ACCEPTANCE BY THE CITY OF SURPRISE AND EPCOR AND THE PROJECT OWNER.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL "PRE CONSTRUCTION" STATE OR BETTER.
- DRIVeway ACCESS AND UTILITY SERVICE TO EXISTING HOMES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.
- THE CONTRACTOR SHALL ASSUME THAT A PORTION OF THE SOILS WILL NOT PROVIDE SUFFICIENT STABILITY TO STAND UP IN VERTICAL TRENCH WALLS. THIS WILL RESULT IN WIDER TRENCHES, GREATER EARTHWORK VOLUMES, AND MORE SURFACE DISTURBANCE. THE CONTRACTOR SHALL ASSUME THAT A PORTION OF NATIVE SOILS WILL INCLUDE BOULDERS/COBBLES WHICH ARE GREATER THAN 24 INCHES IN DIAMETER WHICH WILL SLOW DOWN THE CONTRACTOR'S PROGRESS. THIS WILL RESULT IN WIDER TRENCHES, GREATER EARTHWORK VOLUMES, MORE SURFACE DISTURBANCE, AND MORE SURFACE RESTORATION THAN WHAT MAY BE SHOWN ON THE DRAWINGS.
- THE REMOVAL, LOADING, AND HAULING OF EXCESS MATERIALS AS A RESULT OF DEMOLITION, TRENCHING, AND EXCAVATION ACTIVITIES SHALL BE DISPOSED OF AT A CONTRACTOR-PROVIDED WASTE SITE AT NO ADDITIONAL COST TO THE OWNER.
- THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE BASED ON A ALTA/NSPS LAND TITLE SURVEY FROM S&F LAND SERVICES, DATED NOVEMBER 27, 2024. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND ALERT THE ENGINEER IMMEDIATELY IF DISCREPANCIES ARE FOUND
- THE CONTRACTOR SHALL PROVIDE PRODUCT SUBMITTALS AND SHOP DRAWINGS TO THE JURISDICTION HAVING AUTHORITY FOR REVIEW AND APPROVAL FOR UTILITIES THAT WILL BE PUBLICLY OWNED AND MAINTAINED PRIOR TO ORDERING MATERIALS

ABBREVIATIONS

&	AND	KWH	KILOWATT HOURS
±	ANGLE APPROXIMATELY	L	LENGTH
⊕	AT	LB(S)	POUND(S)
◎	CENTERLINE	LF	LINEAR FEET
·	DEGREE	LP	LOW POINT ELEVATION
=	EQUALS	LT	LEFT
,	FOOT		
>	GREATER THAN	MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
*	INCH	MAX	MAXIMUM
#	NUMBER	MFR	MANUFACTURER
%	PERCENT	MH	MANHOLE
		MIN	MINIMUM, MINUTE
		MISC	MISCELLANEOUS
		MON	MONUMENT IN CASE
AC	ASPHALTIC CONCRETE		
ADD'L	ADDITIONAL	N	NORTH, NORTHING
ADJT	ADJACENT	N/A	NOT APPLICABLE
AFF	ABOVE FINISH FLOOR	NE	NORTHEAST
AP	ANGLE POINT	NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
APPROX	APPROXIMATE	NIC	NOT IN CONTRACT
ARCH	ARCHITECT	NO	NUMBER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NTS	NOT TO SCALE
ATB	ASPHALT TREATED BASE COURSE	NW	NORTHWEST
AVE	AVENUE		
BCR	BEGIN CURB RETURN	OC	ON CENTER
BVF	BUTTERFLY VALVE	OD	OUTSIDE DIAMETER
BGS	BELOW GROUND SURFACE	OSHA	INDUSTRIAL SAFETY & HEALTH ADMINISTRATION
BLK	BLOCK(S)	P	POWER, POWER VAULT
BLDG	BUILDING	PC	POINT OF CURVATURE
BM	BENCHMARK	PCC	POINT OF COMPOUND CURVE
BVC	BEGIN VERTICAL CURB		OR PORTLAND CEMENT CONCRETE
C	CONDUT	PED	PEDESTAL
CB	CATCH BASIN	PI	POINT OF INTERSECTION
CF	CUBIC FEET	R	PROPERTY LINE
CIRC	CIRCUIT, CIRCULAR(R, TION)	POC	POINT OF CONNECTION
OIP	CAST-IN-PLACE	PP	POWER POLE
OIP MON	CAST-IN-PLACE MONUMENT	PRC	POINT OF REVERSE CURVATURE
CJ	CENTER JOINT	PROP	PROPERTY
CL	CENTER LINE	PSI	POUNDS PER SQUARE INCH
CLR	CROWNLINE	PT	POINT OF TANGENCY
CO	CLEAR	PVC	POINT OF VERTICAL CURVE
COMM	CLEANOUT	PV	POINT OF VERTICAL INTERSECTION
COMPT	COMMUNICATION	PVT	POINT OF VERTICAL TANGENT
CONC	COMPACTED	PWMT	PAVEMENT
CONST	CONCRETE	PWR	POWER
CONT	CONSTRUCT	QTY	QUANTITY
COORD	CONTINUOUS, ED, OUS, ATION)	R	RADIUS
CSBC	COORDINATE	RD	ROAD, ROADWAY
CSTC	CRUSHED SURFACING BASE COURSE	REF	REFERENCE
CULV	CRUSHED SURFACING TOP COURSE	CU YD	CUBIC YARD
	CULVERT	REINF	REINFORCED, ED, INC, MENT)
D/W	DRIVeway	REQ'D	REQUIRED
DEF	DEFLECTION	REV	REVISION
DEG	DEGREE	RIM	STRUCTURE RIM ELEVATION
DEMO	DEMOLISH/DEMOLITION	RT	RIGHT TURN
DIA	DIAMETER	R/W, ROW	RIGHT OF WAY
DIM	DIMENSION(S)	S	SOUTH OR SLOPE
D.I.	DUCTILE IRON PIPE	SCHED	SCHEDULE
DR	DRIVE	SD, SDMH	STORM DRAIN, STORM DRAIN MANHOLE
DWG(S)	DRAWING(S)	SE	SOUTHEAST
E	EAST OR ELECTRICAL	SECT	SECTION(S)
EA	EACH	SHT	SHOOT
ECR	END CURB RETURN	SP	SPRINKLER
EHH	ELECTRICAL HANDBOKE	SQ	SQUARE
EL, ELEV	ELEVATION	SQ FT	SQUARE FEET
ELEC	ELEVATOR	SQ IN	SQUARE INCH
ENGR	ENGINEER	SS	SANITARY SEWER
EOP	EDGE OF PAVEMENT	SSMH	SANITARY SEWER MANHOLE
EQ	EQUALLY	ST	STREET
EQUIP	EQUIPMENT	STA	STATION
ESMT	EASEMENT	STD	STANDARD
EVC	END VERTICAL CURVE	STRUCT	STRUCTURE, AL)
EX, EXIST	EXISTING	SW	SOUTHWEST
EXP	EXPANSION	SYS	SYSTEM
FDC	FIRE DEPARTMENT CONNECTION	T	TELEPHONE OR TELEPHONE VAULT
FDN	FOUNDATION	TBD	TO BE DETERMINED
FF	FINISH FLOOR	TBM	TEMPORARY BENCH MARK
FG	FINISH GRADE ELEVATION	TC	TOP OF CURB ELEVATION
FH	FIRE HYDRANT	TELE	TELEPHONE
FIN	FINISH(ED)	TEMP	TEMPORARY
FL	FINE LINE/FLANGE	TP, T/P	TOP OF PIPE
FT	FOOT/FEET	TOP	TOP OF WALL ELEVATION
G	GAS	UDG	UNDERGROUND
GALV	GALVANIZED	VAP	VERTICAL ANGLE POINT
GRND	GROUND	VC	VERTICAL CURVE
GV	GATE VALVE	VERT	VERTICAL
HH	HANDLEHOLE	VOL	VOLUME
HMA	HOT MIX ASPHALT	W	WEST, WIDTH, WIDE OR WATER
HORIZ	HORIZONTAL	W/	WITH
HT	HEIGHT	W/O	WITHOUT
IE	INVERT ELEVATION	WM	WATER MAIN OR WILLAMETTE MERIDIAN
IN	INCH	WV	WATER VALVE
JB, J-BOX	JUNCTION BOX	XFMR	TRANSFORMER
JT	JOINT TRENCH		
KV	KILOVOLTS		
KW	KILOWATT		

DRAFTING SYMBOLS

(XX)CONSTRUCTION NOTE NUMBER
XX-ASECTION NUMBER
XX-01SHEET NUMBER SECTION IS LOCATED ON
X	

REVISIONS	
PROJECT NO.	121044
DRAWN	C. DAHM
CHECKED	D. PHILLIPS
SUBMITTED DATES	
OTD DATE	-
JSA CIVIL	
Engineering Planning Management	
111 TUMWATER BLVD SE SUITE B203	
TUMWATER, WA 98512	
03/10/2025	
Stamp	
<p>John Charles Severs Professional Engineer PE Arizona Date Signed: 03/10/2025 03/10/2025</p>	
CRASH CHAMPIONS	
COMMERCIAL DEVELOPMENT PROJECT	
303 AUTOSHOW DRIVE	
SURPRISE, ARIZONA	
HillSide	
Architecture Inc.	
Sheet Title	
GENERAL NOTES & ABBREVIATIONS	
SHEET	
C1.1	
FSXX-XXXX	