

Mar 13, 2025 2:00:15pm User: Ciaradabini
N:\J - PROJECTS\121 HILLSIDE ARCHITECTURE\121.044 CRASH CHAMPIONS SURPRISE_AZ\ACAD\121.044 GN-01.DWG

JSA CIVIL GENERAL CONSTRUCTION NOTES

1. 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/2F8EDDEE-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-22E1-48D4-BE5F-85186C4288DB

CITY OF SURPRISE PLANNING AND ENGINEERING DESIGN STANDARDS
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

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=2019-12-30-103511-830

FCDMC 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

PRASADA PLANNED AREA DEVELOPMENT
HTTPS://CONTENT.CIVICPLUS.COM/API/ASSETS/97DF4DF1-4DC3-41F6-8359-D9A131D6EE73?CACHE=1800

GEOTECHNICAL REPORT FINALIZED BY TERRACON ON DECEMBER 13, 2024

2. ALL GOVERNMENTAL SAFETY REGULATIONS SHALL BE STRICTLY ADHERED TO INCLUDING OSHA.
3. 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.
4. 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
5. 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.
6. 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.
7. 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.
8. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL, STATE, AND FEDERAL APPROVALS AND PERMITS.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE APPROVED PLANS, SPECIFICATIONS, CONSTRUCTION SWPPP, AND CONTRACT DOCUMENTS AT THE CONSTRUCTION SITE AT ALL TIMES.
10. 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.
11. 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.
12. 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.
13. 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.
14. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL "PRE CONSTRUCTION" STATE OR BETTER.
15. DRIVEWAY ACCESS AND UTILITY SERVICE TO EXISTING HOMES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.
16. 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/COBBLER 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.
17. 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.
18. 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
19. 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	L	LENGTH
±	APPROXIMATELY	LB(S)	POUND(S)
⊙	AT	LF	LINEAR FEET
⊕	CENTERLINE	LP	LOW POINT ELEVATION
°	DEGREE	LT	LEFT
=	EQUALS		
'	FOOT	MAG	MARICOPA ASSOCIATION PF GOVERNMENTS
>	GREATER THAN	MAX	MAXIMUM
"	INCH	MFR	MANUFACTURER
#	NUMBER	MH	MANHOLE
%	PERCENT	MIN	MINIMUM, MINUTE
		MISC	MISCELLANEOUS
AC	ASPHALTIC CONCRETE	MON	MONUMENT IN CASE
ADD'L	ADDITIONAL		
ADJT	ADJACENT	N	NORTH, NORTHING
AFF	ABOVE FINISH FLOOR	N/A	NOT APPLICABLE
AP	ANGLE POINT	NE	NORTHEAST
APPROX	APPROXIMATE	NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
ARCH	ARCHITECT	NIC	NOT IN CONTRACT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NO	NUMBER
ATB	ASPHALT TREATED BASE COURSE	NTS	NOT TO SCALE
AVE	AVENUE	NW	NORTHWEST
BCR	BEGIN CURB RETURN	OC	ON CENTER
BFV	BUTTERFLY VALVE	OD	OUTSIDE DIAMETER
BGS	BELOW GROUND SURFACE	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
BLK	BLOCK(S)		
BLDG	BUILDING	P	POWER, POWER VAULT
BM	BENCHMARK	PC	POINT OF CURVATURE
BVC	BEGIN VERTICAL CURB	PCC	POINT OF COMPOUND CURVE
C	CONDUIT		
CB	CATCH BASIN	PED	PEDESTAL
CF	CUBIC FEET	PI	POINT OF INTERSECTION
CIRC	CIRCUIT, CIRCULA(R, TION)	ℙ	PROPERTY LINE
CIP	CAST-IN-PLACE	PCC	POINT OF CONNECTION
CIP MON	CAST-IN-PLACE MONUMENT	PP	POWER POLE
CJ	CENTER JOINT	PRC	POINT OF REVERSE CURVATURE
⊕	CENTER LINE	PROP	PROPERTY
CL	CROWNLINE	PSI	POUNDS PER SQUARE INCH
CLR	CLEAR	PT	POINT OF TANGENCY
CO	CLEANOUT	PVC	POINT OF VERTICAL CURVE
COMM	COMMUNICATION	PVI	POINT OF VERTICAL INTERSECTION
COMPT	COMPACTED	PVT	POINT OF VERTICAL TANGENT
CONC	CONCRETE	PVMT	PAVEMENT
CONST	CONSTRUCT	PWR	POWER
CONT	CONTINUE(E, ED, OUS, ATION)	QTY	QUANTITY
COORD	COORDINATE		
CSBC	CRUSHED SURFACING BASE COURSE	R	RADIUS
CSCT	CRUSHED SURFACING TOP COURSE	RD	ROAD, ROADWAY
CULV	CULVERT	REF	REFERENCE
CU YD	CUBIC YARD	REINF	REINFORCE(E, ED, ING, MENT)
		REQ'D	REQUIRED
D/W	DRIVEWAY	REV	REVISION
DEF	DEFLECTION	RIM	STRUCTURE RIM ELEVATION
DEG	DEGREE	RT	RIGHT TURN
DEMO	DEMOLISH/DEMOLITION	R/W, ROW	RIGHT OF WAY
DIA	DIAMETER		
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
		SECT	SECTION(S)
E	EAST OR ELECTRICAL	SHT	SHEET
EA	EACH	SP	SPRINKLER
ECR	END CURB RETURN	SQ	SQUARE
EHH	ELECTRICAL HANDHOLE	SQ FT	SQUARE FEET
EL, ELEV	ELEVATION	SQ IN	SQUARE INCH
ELEC	ELECTRIC(AL)	SS	SANITARY SEWER
ENGR	ENGINEER	SSMH	SANITARY SEWER MANHOLE
EOP	EDGE OF PAVEMENT	ST	STREET
EQ	EQUAL(LY)	STA	STATION
EQUIP	EQUIPMENT	STD	STANDARD
ESMT	EASEMENT	STRUCT	STRUCTUR(E, AL)
EVC	END VERTICAL CURVE	SW	SOUTHWEST
EX, EXIST	EXISTING	SYS	SYSTEM
EXP	EXPANSION		
		T	TELEPHONE OR TELEPHONE VAULT
FDC	FIRE DEPARTMENT CONNECTION	TBD	TO BE DETERMINED
FDN	FOUNDATION	TBM	TEMPORARY BENCH MARK
FF	FINISH FLOOR	TC	TOP OF CURB ELEVATION
FG	FINISH GRADE ELEVATION	TELE	TELEPHONE
FH	FIRE HYDRANT	TEMP	TEMPORARY
FIN	FINISH(ED)	TP, T/P	TOP OF PIPE
FL	FIRE LINE/FLANGE	TYP	TYPICAL
FT	FOOT/FEET	TW	TOP OF WALL ELEVATION
G	GAS	UDG	UNDERGROUND
GALV	GALVANIZED		
GRND	GROUND	VAP	VERTICAL ANGLE POINT
GV	GATE VALVE	VC	VERTICAL CURVE
		VERT	VERTICAL
HH	HANDHOLE	VOL	VOLUME
HMA	HOT MIX ASPHALT		
HORIZ	HORIZONTAL	W	WEST, WIDTH, WIDE OR WATER
HT	HEIGHT	W/	WITH
		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

⬡.....CONSTRUCTION NOTE NUMBER

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⬡

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XX-A.....SECTION NUMBER

XX

XX

XX

XX-01.....SHEET NUMBER SECTION IS LOCATED ON

REVISIONS

PROJECT NO.
121.044

DRAWN
C. DAHM

CHECKED
D. PHILLIPS

SUBMITTAL DATES

OTB DATE
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STAMP

Professional Engineer
Arizona, U.S.A.

03/10/2025

CRASH CHAMPIONS
COMMERCIAL DEVELOPMENT PROJECT
303 AUTOSHOW DRIVE
SURPRISE, ARIZONA

Hillside
architecture

SHEET TITLE

GENERAL NOTES &
ABBREVIATIONS

SHEET

C1.1

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