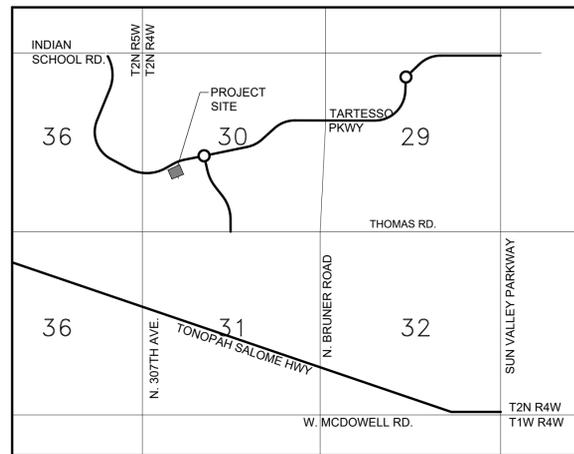


# IMPROVEMENT PLANS FOR FIRE STATION 705

30551 W. TARTESSO PARKWAY, BUCKEYE, ARIZONA 85387  
APN 503-73-944D

A PORTION OF THE SOUTHWEST 1/4 OF SECTION 30, TOWNSHIP 2 NORTH,  
RANGE 4 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN,  
MARICOPA COUNTY, ARIZONA



## VICINITY MAP

NTS  
A PORTION OF SW 1/4 OF SECTION 30, T2N, R4W OF THE GILA AND SALT RIVER  
BASE AND MERIDIAN, MARICOPA COUNTY, AZ

## FEMA FLOOD ZONE INFORMATION

COMMUNITY NUMBER	PANEL NUMBER PANEL DATE	DATE OF FIRM	FIRM ZONE	BASE FLOOD ELEVATION
040039C	2080 OF 4425	OCTOBER 16, 2013	ZONE X	NA

## GENERAL PERMITTING NOTES

- ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF BUCKEYE DESIGN STANDARDS. IF THERE IS A CONFLICT, THE CITY OF BUCKEYE STANDARDS WILL GOVERN.
- THE APPROVAL OF THE PLANS IS VALID FOR ONE (1) YEAR FROM THE DATE OF THE CITY ENGINEER'S SIGNATURE. IF AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN ONE (1) YEAR, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR APPROVAL.
- A CITY OF BUCKEYE INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF BUCKEYE RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY THE CITY 24 HOURS PRIOR TO THE INSPECTION BY CALLING 623.349.6248.
- CITY PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. A CITY PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER ALL FEES HAVE BEEN PAID AND THE PERMIT HAS AN APPROVED MARICOPA COUNTY ENVIRONMENTAL SERVICES DUST PERMIT AND AN APPROVED STORM WATER POLLUTION PREVENTION PLAN ATTACHED. THE SWPPP SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- COPIES OF ALL PERMITS AND MOST RECENTLY APPROVED PLANS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS AND PLANS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL PROPER PERMIT DOCUMENTATION AND/OR PLANS ARE OBTAINED. ALL OF THESE REQUIREMENTS APPLY TO ON-SITE GRADING AND IMPROVEMENTS PLANS.

## SITE INFORMATION

TOTAL SITE AREA: 2.209 ACRES  
TOTAL ON-SITE DISTURBANCE: 2.192 ACRES  
TOTAL DISTURBANCE INCLUDING OFF-SITE WORK: 2.324 ACRES

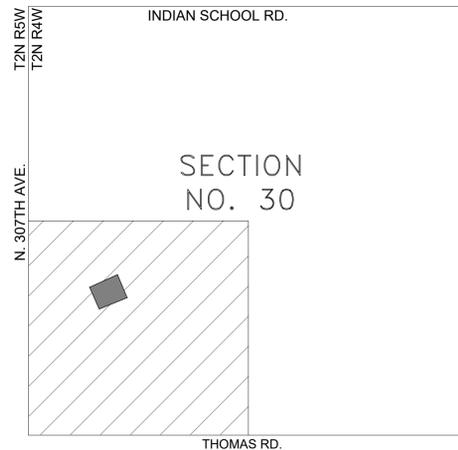
## CUT/FILL EARTHWORK QUANTITIES

ESTIMATED TOTAL CUT: 1,321 CY  
ESTIMATED TOTAL FILL: 519 CY  
ESTIMATED NET CUT: 802 CY

THE ESTIMATES FOR EARTHWORK QUANTITIES ARE NET UNADJUSTED QUANTITIES ONLY. THEY DO NOT ACCOUNT FOR SHRINKAGE OR EXPANSION OR FOR EXCESS CUT AND FILL THAT MAY BE REQUIRED DURING CONSTRUCTION (LIKE PAVEMENT AND SLAB THICKNESS, UTILITY TRENCHES, OR OVEREXCAVATION REQUIREMENTS). EARTHWORK CONTRACTOR SHALL DETERMINE HIS OWN QUANTITIES.

## UTILITY COORDINATION

UTILITY	UTILITY COMPANY	SUBMITTAL DATE
SEWER, WATER, FIBER OPTIC, STORM DRAIN	CITY OF BUCKEYE	5/2/19
ELECTRIC	ARIZONA PUBLIC SERVICE	5/2/19
CABLE TV, COMMUNICATIONS	COX COMMUNICATIONS	5/2/19
TELEPHONE, COMMUNICATIONS	CENTURYLINK	5/2/19
NATURAL GAS	SOUTHWEST GAS	5/2/19
NATURAL GAS	TRANSWESTERN PIPELINE CO.	5/2/19



## STORM WATER DRAINAGE CERTIFICATE

- RETENTION FOR THE DEVELOPMENT IS PROVIDED IN THE OVERALL SUBDIVISION. NO ADDITIONAL ON-SITE RETENTION IS REQUIRED OR PROVIDED.
- ALL FLOWS FROM THE 100-YEAR STORM WILL BE CONTAINED WITHIN THE STREET (FROM CURB TO CURB)
- ALL STORM WATER RETENTION WILL BE DRAINED WITHIN 36 HOURS. IF BASINS DO NOT DRAIN WITHIN 36-HOURS, DEVELOPER/OWNER SHALL ENACT MEASURES TO CORRECT.
- ALL DRAINAGE DESIGN WILL COMPLY WITH THE CITY OF BUCKEYE CURRENT GRADING AND DRAINAGE DESIGN STANDARDS.
- FINISH FLOOR ELEVATIONS MUST BE A MINIMUM OF 14-INCHES ABOVE THE OUTFALL TOP OF CURB ELEVATION AN 12-INCHES ABOVE THE COMPUTED 100-YEAR WATER ELEVATIONS AND 1-FOOT ABOVE THE EMERGENCY OUTFALL ELEVATION AT ANY ADJACENT RETENTION BASIN, WHICHEVER IS GREATER.
- ALL RETENTION BASINS SHALL HAVE A MINIMUM OF 1-FOOT OF FREEBOARD.

*William E. Gasque*  
REGISTERED CIVIL ENGINEER  
8/5/2019 DATE  
Professional Engineer  
47102  
WILLIAM E. GASQUE  
DESIGNED  
ARIZONA, U.S.A.  
EXPIRES 12/31/2019

## REMOVAL QUANTITIES

ITEM	UNIT	QUANTITY
SAWCUT EXISTING PAVEMENT OR SIDEWALK	LF	412
REMOVE EXISTING CURB/CURB AND GUTTER	LF	379
REMOVE EXISTING ASPHALT PAVEMENT	SY	81
REMOVE EXISTING CONCRETE PAVEMENT	SY	282
REMOVE EXISTING PCC SIDEWALK	SF	2286
REMOVE EXISTING VALLEY GUTTER	LF	176
REMOVE EXISTING SITE WALL	LF	326
REMOVE EXISTING UTILITY PEDESTAL	EA	1
REMOVE EXISTING 8" WATER MAIN STUB	LF	28

## PAVING QUANTITIES

ITEM	UNIT	QUANTITY
TYPE A VERTICAL CURB	LF	1661
TYPE A VERTICAL CURB & GUTTER	LF	333
CONCRETE SIDEWALK	SF	6137
PVMT 7" PCC ON 4" ABC	SY	2612
PVMT 2" AC ON 4" ABC	SY	1806
PVMT 3" AC ON 6" ABC	SY	367
CONCRETE VALLEY GUTTER (MOD)	LF	153
SITE WALL	LF	824
PRECAST SAFETY CURB, TY B-3	EA	1
SITE LIGHT POLE AND FOUNDATION	EA	22
GUNITED SLOPE PROTECTION	SF	703

## GRADING QUANTITIES

ITEM	UNIT	QUANTITY
10" NYLOPLAST CATCH BASIN	EA	1
15" NYLOPLAST CATCH BASIN	EA	1
6" ADS N-12 HDPE STORM DRAIN	LF	82
12" ADS N-12 HDPE STORM DRAIN	LF	94
CUT	CY	1321
FILL	CY	802

## UTILITIES QUANTITIES

ITEM	UNIT	QUANTITY
4" C900 WATER LINE	LF	127
6" C900 WATER LINE	LF	61
8" C900 WATER LINE	LF	166
FIRE HYDRANT ASSEMBLY COMPLETE	EA	1
6" BACKFLOW PREVENTION ASSEMBLY	EA	1
1" WATER SERVICE CONNECTION & METER	EA	1
2.5" WATER SERVICE CONNECTION & METER	EA	1
2.5" BACKFLOW PREVENTION ASSEMBLY	EA	1
2.5" TYPE K COPPER WATER LINE	LF	69
POST HYDRANT	EA	1
2" NATURAL GAS LINE	LF	181

## OFF-SITE QUANTITIES

ITEM	UNIT	QUANTITY
SAWCUT EXISTING PAVEMENT OR CURB	LF	592
REMOVE EXISTING CURB/CURB AND GUTTER	LF	500
REMOVE EXISTING ASPHALT PAVEMENT	SY	263
PVMT 2" A12.5MM AC ON 4" A19.0MM AC ON 12" ABC	SY	366
TYPE A VERTICAL CURB & GUTTER	LF	20

QUANTITIES PROVIDED ARE FOR PERMITTING PURPOSES ONLY

## AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE AS-BUILT INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR

REGISTRATION NUMBER DATE

## PROJECT CONTACTS

CIVIL ENGINEER  
CIVIL DESIGN SOLUTIONS, LLC  
10910 WEST PALM LANE  
AVONDALE, ARIZONA 85392  
PHONE: 480.205.8434  
CONTACT: WILLIAM GASQUE, P.E.  
EMAIL: BGASQUE@CDSLIC-AZ.NET

ARCHITECT  
PERLMAN ARCHITECTS OF ARIZONA  
4808 N. 24TH STREET, SUITE 100  
PHOENIX, ARIZONA 85016  
PHONE: 480.951.5900  
CONTACT: KEN POWERS  
EMAIL: KENP@PERLMANARCHITECTS-AZ.COM

OWNER / DEVELOPER  
CITY OF BUCKEYE FIRE DEPT.  
530 E. MONROE AVE.  
BUCKEYE, AZ 85326  
PHONE: 623.349.6000  
CONTACT: STEVE RILEY  
EMAIL: SRILEY@BUCKEYEAZ.GOV

## SHEET INDEX

SHEET NO.	DESCRIPTION
C001	COVER SHEET
C002	LEGEND AND NOTES
C003	ENGINEER'S NOTES
C004	PCC NOTES
C100	DEMOLITION PLAN
C200	SITE PAVING PLAN
C201	CONCRETE JOINTING PLAN
C300	GRADING AND DRAINAGE PLAN
C400	SITE UTILITY PLAN
C500-501	HORIZONTAL CONTROL PLANS
C600	CONCRETE DETAILS
C601-602	SITE DETAILS
C800	TARTESSO PKWY REMOVAL PLAN
C801	TARTESSO PKWY MEDIAN IMPROVEMENTS PLAN
C802	TARTESSO PKWY SIGNING AND STRIPING PLAN
C803	TARTESSO PKWY SIGN TABLE
C900	STORMWATER MANAGEMENT PLAN COVER
C901	STORMWATER MANAGEMENT PLAN DETAILS
C902	STORMWATER MANAGEMENT PLAN

## SURVEY NOTE

THE TOPOGRAPHIC AND BOUNDARY SURVEY FOR THE PROJECT WAS PERFORMED BY RLF CONSULTING IN FEBRUARY 2019.

## SURVEY BENCHMARK

A STAINLESS STEEL ROD ENCASED IN A SLEEVE WITH A LID AND RIM MARKED WITH THE NGS LOGO AS WELL AS THE DESIGNATION MARKING "4C11 1999". BENCHMARK IS LOCATED 75± NORTH AND 50± WEST OF THE INTERSECTION OF WEST MCDOWELL ROAD AND JOHNSON ROAD.

NAVD88 ELEVATION (FT): 1105.354

## BASIS OF BEARING

BEARINGS ARE BASED UPON N00°49'35"E ALONG THE WEST LINE OF THE NW 1/4 SECTION 29, TOWNSHIP 2 NORTH, RANGE 4 WEST PER TARTESSO MAP OF DEDICATION BOOK 685 OF MAPS, PAGE 12, M.C.R.

## APPROVAL

DISCLAIMER:  
THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS OR OMISSIONS.

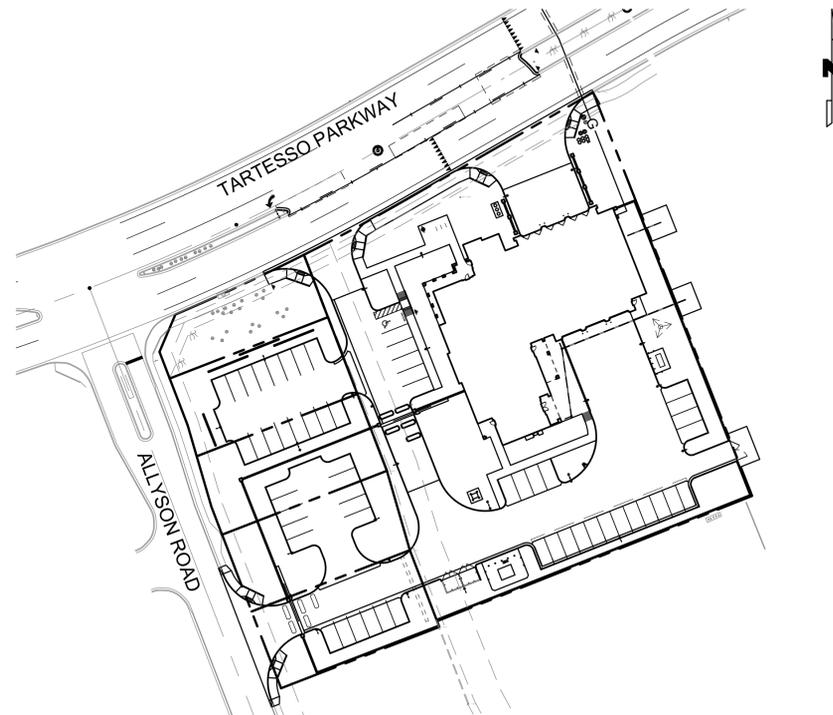
BUCKEYE CITY ENGINEER DATE



MANAGING ENGINEERING / SURVEYOR	PROJECT COORDINATOR	CHECKED	CHECKED
		DRAFTED	DRAFTED
DESIGN LAYOUT	FIELD SURVEY	DRAWING SCALES	
<b>Improvement Plans COVER SHEET</b>		 CIVIL DESIGN SOLUTIONS, L.L.C. Civil Engineering Land Development Water Resources 10910 West Palm Lane Avondale, AZ 85392 Phone: 602.214.4854 www.CDSLIC-AZ.net	
		PROJECT: <b>City of Buckeye Fire Station No. 705 30551 W. Tartesso Pkwy. Buckeye, AZ 85396</b>	
ENGINEER INFORMATION	COB PROJECT PLAN STICKER	REVISIONS: 1 2 3	
PLAN TYPE	ENGINEER INFORMATION	COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL	SUBMITTAL: ORIGINAL PLAN DATE <b>June 6, 2019</b> PROJECT NUMBER <b>1102-18</b> SHEET NUMBER <b>C001</b>	
		COB PLAN TRACKING #	COB PERMIT #

**LEGEND**

FEATURE	NEW	EXISTING
PROPERTY LINE		----
RIGHT-OF-WAY LINE		----
EASEMENT LINE	----	----
CENTERLINE		----
SECTION LINE		----
MINOR CONTOUR LINE	---41---	---41---
MAJOR CONTOUR LINE	---40---	---40---
CURB	====	====
BUILDING EXTERIOR WALL	=====	//////
SITE WALL	=====	=====
STORM DRAIN		SD
SD CATCH BASIN	□	□
GAS LINE	—G—	G
UNDERGROUND ELECTRIC LINE	—E—	E
OVERHEAD ELECTRIC LINE	—OE—	OE
SIGN, SINGLE POST	•	•
TRAFFIC SIGNAL		
SITE LIGHT	•••••	□
ELECTRIC JUNCTION BOX		□ J
COMMUNICATIONS PEDESTAL		□ C
POWER POLE		⋈
SANITARY SEWER	—S—	S
MANHOLE, SANITARY SEWER		⊙
CLEAN OUT	■	C.O. ○
WATER MAIN	—W—	W
WATER VALVE		⊗
END CAP	┌	┌
WATER METER	●	□ W
REDUCER		→
FIRE HYDRANT	⊕	⊕
SWALES	→	→
SLOPE ARROW	→	→
GRADE POINT	XX.XXFG	(XX.XXEG)
CHAIN LINK FENCE	—x—	x
WROUGHT IRON FENCE	—□—	
GAS EQUIPMENT		□ G



**SITE MAP**

NTS

**ABBREVIATIONS**

ABC	AGGREGATE BASE COURSE	MAX	MAXIMUM
AC	ASPHALT CONCRETE	ME	MATCH EXISTING
ACSM	ALUMINUM CAP SURVEY MONUMENT	MH	MANHOLE
ADA	AMERICANS WITH DISABILITIES ACT	MIN	MINIMUM
ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION	MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
BCSM	BRASS CAP SURVEY MONUMENT	N	NORTH
BLDG	BUILDING	NE	NORTHEAST
BM	BENCHMARK	NTS	NOT TO SCALE
BOE	BASIS OF ELEVATION	NW	NORTHWEST
BW	BOTTOM OF WALL	OC	ON CENTER
C	COMPUTED/CALCULATED/CONCRETE	P	PAVEMENT
CB	CATCH BASIN	PCC	PORTLAND CEMENT CONCRETE
CO	CLEANOUT	PROP	PROPOSED
COB	CITY OF BUCKEYE	R	RADIUS, RANGE, RECORD, ROUTE
CONST	CONSTRUCTION	RCP	REINFORCED CONCRETE PIPE
CR	CREST	REQ	REQUIRED
DIA	DIAMETER	RD	ROAD
DIP	DUCTILE IRON PIPE	ROW	RIGHT OF WAY
DET/DTL	DETAIL	R/W	RIGHT OF WAY
E	EAST	RT	RIGHT
EA	EACH	S	SOUTH, SECTION
EG	EXISTING GRADE	SD	STORM DRAIN
EL/ELV	ELEVATION	SE	SOUTHEAST
ELEV	ELEVATION	SEC/SECT	SECTION
EX/EXIST	EXISTING	SF	SQUARE FEET
FFE	FINISH FLOOR ELEVATION	SHT	SHEET
FG	FINISHED GRADE	SPEC	SPECIFICATION(S)
FL	FLOW LINE	SS	SANITARY SEWER
G	GUTTER/GRAVEL	ST	STREET
INV	INVERT	STA	STATION
ID	INTERNAL DIAMETER/ INLINE DRAIN/ IDENTIFICATION	STD	STANDARD
L	LENGTH	SVC	SERVICE
LF	LINEAL FOOT	SW	SOUTHWEST, SIDEWALK
LOC	LOCATION	T	TOWNSHIP
LT	LEFT	TC	TOP OF CURB
LN	LANE	TW	TOP OF WALL
M	MEASURED	TYP	TYPICAL
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS	US	UNITED STATES
		W	WESTWATER
		YR	YEAR

**CITY OF BUCKEYE NOTES**

CITY OF BUCKEYE STANDARD NOTES ARE ACCESSIBLE ON THE CITY'S WEBSITE AT WWW.BUCKEYEAZ.GOV. REFER TO CITY STANDARD DETAILS 12100, 31100, 41100, 63100, AND 65100.

**CITY OF BUCKEYE STANDARD DETAILS**

CITY OF BUCKEYE STANDARD DETAILS USED INCLUDE:

DETAIL	DESCRIPTION
31330	WATER SERVICE LINE CONNECTION
31350	DOUBLE CHECK VALVE ASSEMBLY W/ BYPASS METER, 3" TO 10"
31353	RPP BACKFLOW ASSEMBLY, 3/4" THROUGH 2-1/2"
31358	BACKFLOW PREVENTION ENCLOSURES
31380	WATER TRENCH DETAIL
31430	FIRE SPRINKLER RISER DETAIL - VERT. INST. #1
31456	FIRE DEPARTMENT CONNECTION SIGNAGE
63140	MAJOR COLLECTOR
63204	SLEEPER SLAB
63451	COMMERCIAL DRIVEWAYS (REGULAR)
63452	COMMERCIAL DRIVEWAYS (SKEWED)

**LEGEND AND NOTES**

REVISIONS:			
1			
2			
3			
PLAN NAME			
<b>City of Buckeye Fire Station No. 705</b>			
ENGINEER INFORMATION		 <b>CIVIL DESIGN SOLUTIONS, L.L.C.</b> Civil Engineering Land Development Water Resources 10910 West Palm Lane Avondale, AZ 85392 Phone: 602.214.4854 www.CDSLIC-AZ.net	
COB PERMITTING APPROVED SEAL		COB ENGINEERING APPROVED SEAL	
AS-BUILT SEAL		DESIGN SEAL	
ORIGINAL PLAN DATE	June 6, 2019	LATEST REVISION DATE	
PROJECT NUMBER	1102-18	SHEET NUMBER	C002
SUBMITTAL:		SUBMITTAL:	
COB PLAN TRACKING #		COB PERMIT #	



**ENGINEER'S GENERAL NOTES**

- NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, OR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
- THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK. THIS IS THE CONTRACTOR'S SOLE RESPONSIBILITY. THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADWAYS AND ON-SITE PARKING LOTS/FIRE LANES ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
- IT SHALL BE THE RESPONSIBILITY OF ANY INDIVIDUAL, CONTRACTOR, UTILITY COMPANY OR CITY AGENCY TO CALL THE ARIZONA BLUE STAKE AT 811 OR (800) STAKE-IT (782-5348) A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATION ACTIVITIES.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE UNDERGROUND UTILITY LOCATIONS AND/OR ELEVATIONS AS SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE FROM UTILITY RECORDS AND OTHER DATA AS SUPPLIED TO THE ENGINEER. THE INFORMATION IS NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THERE MAY BE OTHER UNDERGROUND UTILITY LINES, SERVICE LINES, AND STRUCTURES PRESENT IN THE SUBJECT AREA. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IF EXISTING UTILITIES ARE FOUND TO CONFLICT WITH THE PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST CITY OF BUCKEYE ENGINEERING DESIGN STANDARDS (EDS) AND STANDARD DETAILS AND MAG STANDARD DETAILS AND SPECIFICATIONS.
- THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATION OR VARIANCE FROM THESE PLANS. ANY PROPOSED VARIATIONS SHALL BE SHOWN ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER FOR REVIEW.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A DUST CONTROL PERMIT PRIOR TO PERFORMING ANY WORK.
- ANY INSPECTION BY THE OWNER OR ENGINEER SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND COMMUNITY REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED DEMOLITION PERMITS AND BONDS PRIOR TO DEMOLITION WORK. THE CONTRACTOR SHALL PROVIDE A COPY OF ALL REQUIRED PERMITS TO THE ENGINEER IF REQUESTED.
- SHOULD THE CONTRACTOR ENCOUNTER AN EXISTING STRUCTURE (ABOVE OR BELOW GROUND) IN THE WORK FOR WHICH DISPOSITION IS NOT INDICATED ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO DISTURBING SUCH STRUCTURE. THE DISPOSITION OF EXISTING STRUCTURES SO ENCOUNTERED SHALL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL CONSTRUCTION DEBRIS FROM THE SITE AND DISPOSING OF THE DEBRIS IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL RULES, REGULATIONS, AND LAWS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND PROPER DISPOSAL.
- THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION ON THE PLANS OR SPECIFICATIONS. IN THE EVENT THE CONTRACTOR DISCOVERS ANY APPARENT ERROR OR DISCREPANCY, HE SHALL IMMEDIATELY CALL UPON THE ENGINEER FOR HIS INTERPRETATION AND DECISION, AND SUCH DECISION SHALL BE FINAL.
- EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR'S OPERATIONS SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL NOTIFY THE OWNER, WHO SHALL APPROVE REPAIRS PRIOR TO CONSTRUCTION. THE OWNER MAY WITHHOLD FINAL PAYMENT UNTIL REPAIRS ARE INSPECTED AND APPROVED.
- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS AND BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION, AND/OR SIZE OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS, AND CURB OR PAVEMENT AT LOCATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN DIMENSIONS OR COORDINATES TO KNOWN PROPERTY LINES AND NOTIFY THE ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
- PROPERTY CORNERS AND BENCHMARKS SHALL BE CAREFULLY PROTECTED. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
- ALL CONDUITS (BOX CULVERTS, REINFORCED CONCRETE PIPE, CORRUGATED METAL PIPE, AND/OR HDPE PIPE) SHOWN ON THESE PLANS ARE TO BE DESIGNED FOR STANDARD HIGHWAY LOADINGS. THE STANDARD SATISFACTORY MINIMUM COVER REQUIREMENTS AS ESTABLISHED BY THE CONDUIT MANUFACTURER MAY NOT ALWAYS BE ADEQUATE DURING CONSTRUCTION. WHEN CONSTRUCTION EQUIPMENT, FREQUENTLY HEAVIER THAN TRAFFIC LOADS FOR WHICH THE CONDUIT HAS BEEN DESIGNED, IS TO BE DRIVEN OVER OR CLOSE TO THE BURIED CONDUIT, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE CONDUIT. THE ADEQUACY OF THE COVER REQUIREMENTS FOR THE CONDUITS SHALL BE ANALYZED AND CHECKED BY THE CONTRACTOR TO ADDRESS LOADING CONDITIONS IMPOSED BY CONSTRUCTION ACTIVITY. ANY CONDUIT DAMAGED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL KEEP A COPY OF THE APPROVED PLANS IN AN EASILY ACCESSIBLE LOCATION ON THE SITE AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TRAFFIC CONTROL WITH MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION. MAINTENANCE OF TRAFFIC PLANS SHALL BE SUBMITTED TO THE RELEVANT AUTHORITIES FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. UPON COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL POST AND MAINTAIN TRAFFIC CONTROL DEVICES AT NO ADDITIONAL COST TO THE OWNER. ALL WARNING SIGNS, BARRICADES, ETC. SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE REDLINED MARK-UPS OF AS-BUILT CONDITIONS TO THE ENGINEER IN HARD COPY OR ELECTRONIC FORMATS.

**ENGINEER'S DEMOLITION NOTES**

- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL ITEMS INCLUDING, BUT NOT LIMITED TO, EXISTING UTILITIES, PAVEMENTS, SHRUBS/TREES, WALKS, SIGNS OR ANY OTHER ITEMS WHICH MAY INTERFERE WITH THE PLACEMENT OF THE PROPOSED IMPROVEMENTS.
- EXISTING ITEMS BEYOND THE CONSTRUCTION LIMITS AND/OR THOSE ITEMS SPECIFICALLY INDICATED ON THE PLANS TO BE PROTECTED IN PLACE, INCLUDING, BUT NOT LIMITED TO, SIGNS, UTILITIES, BUILDINGS, TREES AND LIGHT POLES, SHALL BE PROTECTED FROM DAMAGE DURING THE DEMOLITION PROCESS. ANY DAMAGE SUSTAINED TO THESE ITEMS PLACE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, AT NO ADDITIONAL COST TO OWNER.
- ALL PAVEMENTS, STRUCTURES, UTILITIES, VEGETATION, AND DELETERIOUS MATERIALS SCHEDULED FOR REMOVAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS REQUIRED TO HAUL AND/OR DISPOSE OF WASTE PRODUCTS. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH DOCUMENTATION REGARDING THE PROPER DISPOSAL OF ALL DEMOLITION ITEMS.
- PRIOR TO COMMENCING DEMOLITION ACTIVITIES, ALL EROSION CONTROL DEVICES MUST BE INSTALLED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN.
- THE CONTRACTOR SHALL LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE NECESSARY AND AS SHOWN ON THE CONSTRUCTION PLANS. IF ANY DAMAGE IS INCURRED TO ANY OF THE SURROUNDING PAVEMENT AND/OR OTHER ITEMS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPAIR OF THE DAMAGED ITEMS AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. TO BE CLEAR AND FREE OF ANY CONSTRUCTION ACTIVITY AND/OR EXCAVATED AND HAULED MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO, FROM, AND AROUND THE SITE.
- ALL AREAS TO BE PAVED, WHICH CURRENTLY CONTAIN VEGETATION, SHALL BE CLEARED AND GRUBBED. CLEARING AND GRUBBING SHALL INCLUDE, BUT NOT BE LIMITED TO THE REMOVAL OF ALL BRUSH, NON-GRASSY VEGETATION, THE GRUBBING OUT OF ALL ROOT SYSTEMS TO A DEPTH OF SIX INCHES AND REPLACING WITH SELECT COMPACTED FILL MATERIAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CAREFULLY REMOVING, STORING AND SAFEGUARDING ALL ITEMS WHICH ARE INTENDED TO BE SALVAGED AND REUSED. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED AS NECESSARY BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.

**ENGINEER'S GRADING & DRAINAGE NOTES**

- THE MAXIMUM SLOPE RATIO ON CUT/FILL SLOPES SHALL BE FOUR (4) HORIZONTAL TO ONE (1) VERTICAL UNLESS OTHERWISE SPECIFIED. THE MAXIMUM SLOPE RATIO IN RETENTION BASINS SHALL BE SIX (6) HORIZONTAL TO ONE (1) VERTICAL.
- AT LOCATIONS CALLED OUT TO MATCH EXISTING, THE CONTRACTOR SHALL MATCH FINISHED GRADES OF PROPOSED PAVEMENT AND PROPOSED CURB AND GUTTER WITH THE EXISTING PAVEMENT AND EXISTING CURB AND GUTTER. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM ALL CURBING AND EXISTING PAVEMENT.
- DISTURBED AREAS OUTSIDE OF THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS SHALL BE RESTORED TO THEIR ORIGINAL GRADE AND CONDITION AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
- ALL SURFACES ALONG ACCESSIBLE ROUTES AND ADA RAMPS SHALL BE STABLE, FIRM, SLIDE-RESISTANT, AND SHALL COMPLY WITH THE LATEST ADAAG REQUIREMENTS. ANY GRADE OR ELEVATION CHANGES TO THE ACCESSIBLE ROUTE MADE IN THE FIELD SHALL BE REVIEWED WITH THE ENGINEER PRIOR TO CONSTRUCTION.
- ALL STORM DRAIN PIPE SHALL HAVE A SMOOTH INTERIOR REGARDLESS OF PIPE MATERIAL UNLESS OTHERWISE NOTED ON THE PLANS. UNDER NO CIRCUMSTANCES SHALL A CORRUGATED INTERIOR BE USED FOR STORM DRAIN.
- STORM DRAIN CONNECTIONS MAY REQUIRE REDUCERS AS NECESSARY. SWEEPING ELBOWS SHALL BE USED AT ALL BENDS.
- THE CONTRACTOR SHALL COMPLETELY CLEAN ALL DRAINAGE STRUCTURES AND STORM DRAIN PIPES AS REQUIRED AT THE END OF CONSTRUCTION PRIOR TO REMOVING THE SWPPP BMPs.
- ALL GRADING, SITE PREPARATION, EARTHWORK, AND BACKFILL SHALL COMPLY WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT FOR THE ADMINISTRATION BUILDING SITE IN ADDITION TO THE REFERENCED REQUIRED SPECIFICATIONS AND DETAILS. THE GEOTECHNICAL REPORT WAS PREPARED BY SPEEDIE AND ASSOCIATES, INC. DATED 02-13-2019 WITH SPEEDIE PROJECT # 1900955A.
- SPOT ELEVATIONS SHOWN ON PLANS ARE FINISHED GRADE ELEVATIONS UNLESS OTHERWISE SHOWN.

**ENGINEER'S UTILITY NOTES**

- SANITARY SEWER MAIN CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST STANDARDS, SPECIFICATIONS, AND DETAILS OF THE CITY OF SURPRISE (COS) AND THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG).
- EXISTING UTILITIES ARE SHOWN BASED UPON THE BEST AVAILABLE INFORMATION AVAILABLE. CONTRACTOR TO VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- ALL SANITARY SEWER MAIN MATERIAL AND MINIMUM COVER SHALL BE PER COS SPECIFICATIONS UNLESS OTHERWISE NOTED. ALL SANITARY SEWER LINES SHALL BE SDR-35 PVC IN CONFORMANCE WITH ASTM D3034.
- NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SEWER MANHOLE. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND MANHOLES SHALL BE SIX FEET (6'), MEASURED FROM THE OUTSIDE OF THE WATER MAIN PIPE TO CENTER OF THE MANHOLE.
- ALL FILL MATERIAL IS TO BE IN PLACED AND COMPACTED PRIOR TO THE INSTALLATION OF PROPOSED UTILITIES.
- THE CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES 72 HOURS PRIOR TO CONNECTING TO ANY EXISTING LINE.
- IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER MAINS, SANITARY SEWER, STORM DRAINS, AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY SEWER SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING. THE WATER MAIN SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 24" CLEARANCE MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
- ALL CONCRETE FOR ENCASEMENTS SHALL BE CLASS A AND HAVE A MINIMUM 28-DAY COMPRESSION STRENGTH A 3,000 PSI.
- THE FRAME AND GRATE ELEVATIONS OF EXISTING STRUCTURES SUCH AS, BUT NOT LIMITED TO, MANHOLES, VAULTS, AND ELECTRICAL BOXES, SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT OR FINISHED GRADE ELEVATION.
- THE CONTRACTOR SHALL INSTALL CONTINUOUS TRACER WIRE FOR NON-METAL PIPE PER COS SPECIFICATIONS.
- THE CONTRACTOR SHALL PREPARE TRENCH BEDDING AND PROVIDE BACKFILL IN ACCORDANCE WITH MAG SPECIFICATION 601.
- ELECTRICAL, COMMUNICATION, AND GAS UTILITY LINES SHOWN ON THE PLANS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION REQUIREMENTS WITH THE APPROPRIATE ENTITY FOR THESE UTILITY LINES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY POTENTIAL CONFLICT THAT MAY ARISE WITH THE INSTALLATION OF THESE UTILITY LINES.
- PIPES, FITTINGS, VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES SHALL CONFORM TO THE CURRENT STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION, AMERICAN STANDARDS ASSOCIATION OR THE FEDERAL GOVERNMENT.
- PLASTIC PIPE AND FITTINGS MUST BEAR THE SEAL OF THE NATIONAL SANITATION FOUNDATION. EVIDENCE OF A PRODUCT CONFORMS TO THE REQUIREMENTS OF THIS SECTION SHALL BE THE APPEARANCE ON THE PRODUCT OR PRODUCT PACKAGE OF A SEAL OF A CERTIFYING ENTITY THAT IS ACCREDITED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE TO PROVIDE CERTIFICATION

**ENGINEER'S PAVING NOTES**

- SIGN CONSTRUCTION AND PAVEMENT MARKING SHALL CONFORM TO THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
- ALL CURB RADII ARE DIMENSIONED TO THE FACE OF CURB, UNLESS NOTED OTHERWISE.
- ALL PAVEMENTS ARE HEAVY DUTY ASPHALT PAVEMENT, UNLESS OTHERWISE NOTED.
- WHEN ABUTTING NEW PAVEMENT TO EXISTING, SAW CUT THE EXISTING PAVEMENT TO A NEAT STRAIGHT LINE (TWO FEET MINIMUM) AS SHOWN ON THE PLANS. REMOVE ALL BROKEN AND CRACKED PAVEMENT AND MATCH NEW PAVEMENT TO EXISTING WITH A TACK COAT AT ALL JOINTS.
- THE FRAME AND GRATE ELEVATIONS OF EXISTING STRUCTURES SUCH AS, BUT NOT LIMITED TO, MANHOLES, VAULTS, WATER VALVES AND ELECTRICAL BOXES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT OR FINISHED GRADE ELEVATIONS PER MAG STD DTL 391.
- ALL UNDERGROUND UTILITY AND SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PERMANENT PAVEMENT MARKINGS ON FINAL SURFACE COURSE USING A STRING LINE, FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 10 FEET ALONG LINES TO BE STRIPED.
- ALL DIMENSIONS SHOWN TO PAVEMENT STRIPES SHALL BE TO CENTER OF STRIPE OR, IN THE CASE OF DOUBLE STRIPE, TO THE CENTER OF THE DOUBLE STRIPE.
- PAVEMENT MARKINGS SHOULD NOT BE APPLIED WITHIN 30 DAYS OF PLACEMENT OF THE FINAL PAVEMENT SURFACE, WHETHER CONCRETE OR ASPHALT. ALL PAVEMENT MARKING SHALL RECEIVE TWO COATS APPLIED 30 DAYS APART.
- PRIOR TO APPLYING PAINT PAVEMENT MARKINGS, THE CONTRACTOR SHALL PREPARE NEW CONCRETE PAVEMENT SURFACE AS NECESSARY TO ENSURE MAXIMUM ADHESION.

**ENGINEER'S NOTES**

REVISIONS:	
1	
2	
3	
PLAN NAME	
<p><b>City of Buckeye</b>  <b>Fire Station No. 705</b></p>	
ENGINEER INFORMATION	
 <p><b>CIVIL DESIGN SOLUTIONS, L.L.C.</b>          Civil Engineering Land Development          Water Resources          10910 West Palm Lane Avondale, AZ 85392          Phone: 602.214.4854 www.CDSLIC-AZ.net</p>	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
SUBMITTAL:	
AS-BUILT SEAL	DESIGN SEAL
	
ORIGINAL PLAN DATE	LATEST REVISION DATE
June 6, 2019	
PROJECT NUMBER	SHEET NUMBER
1102-18	COO3
COB PLAN TRACKING #	
COB PERMIT #	



**PORTLAND CEMENT CONCRETE NOTES**

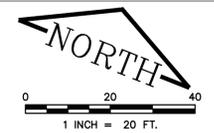
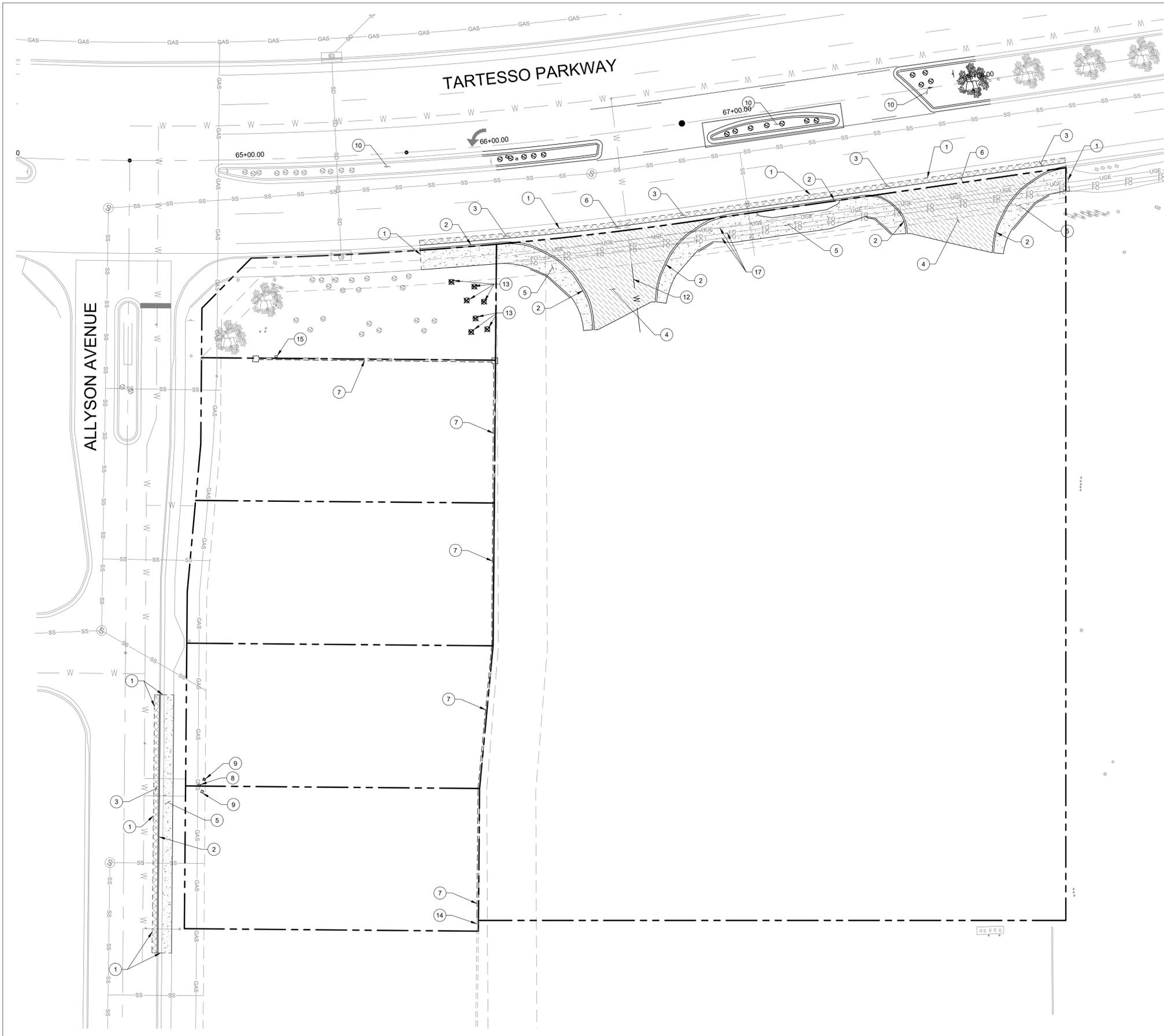
1. REVIEW AND VERIFY ALL AS-BUILT CONDITIONS WHICH AFFECT NEW CONSTRUCTION PRIOR TO SUBMISSION OF SHOP DRAWINGS AND ANY FABRICATION.
2. INDUSTRY STANDARDS GOVERNING THIS WORK ARE OF THE LATEST ISSUE AT THE DATE OF THIS DRAWING RELEASE AS SHOWN BELOW.
3. ENSURE STORAGE, HANDLING, PREPARATION, INSTALLATION, ETC OF ALL MATERIALS ARE IN ACCORDANCE WITH MANUFACTURER'S / VENDOR'S PRINTED RECOMMENDATIONS AND INSTRUCTIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.
4. TIE ALL BARS WHERE THEY CROSS.
5. REBAR SHALL BE 1" CLEAR MIN. FROM ANY DOWEL BARS.
6. USE PROPER CHAIRS TO MAINTAIN REQUIRED DISTANCE FROM TOP OF CONCRETE.
7. UP TO 4 STAKES PER PANEL IS ACCEPTABLE TO PREVENT MOVEMENT OF REBAR DURING POUR. STAKES SHALL BE 24" OR MORE FROM THE EDGE OF PANEL.
8. DELIVERY TIME: WHEN AIR TEMPERATURE IS BETWEEN 85 DEG F AND 90 DEG F, REDUCE MIXING AND DELIVERY TIME FROM 1-1/2 HOURS TO 75 MINUTES; WHEN AIR TEMPERATURE IS ABOVE 90 DEG F, REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES.
9. PLACE ISOLATION JOINTS AS SHOWN AND ALSO AT MANHOLES, CLEANOUTS, AND OTHER FIXED STRUCTURES OR EQUIPMENT.
10. CONFORM TO ACI 318 FOR THE DESIGN AND PLACEMENT OF CONCRETE, REINFORCING, AND RELATED ITEMS.
11. PROVIDE A MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS AS INDICATED IN GEOTECHNICAL REPORT.
12. PROVIDE A MINIMUM CEMENTITIOUS CONTENT IN ACCORDANCE WITH ACI 302.1R AND A MAXIMUM WATER/CEMENT RATIO OF 0.50. MEASURE AND MIX CONCRETE IN ACCORDANCE WITH ACI 211.1. USE SLUMP OF 3 TO 4 INCHES WITHOUT WATER REDUCER AND 6 TO 8 INCHES WITH MID-RANGE OR HIGH-RANGE WATER REDUCER.
13. SUBMIT MIX DESIGNS AND TEST RESULTS FOR COMPRESSIVE STRENGTH, SLUMP, AND AIR CONTENT FOR REVIEW. INCLUDE STANDARD DEVIATIONS AND AVERAGE COMPRESSIVE STRENGTHS FOR FIELD DATA. INCLUDE BRAND NAME AND CHEMICAL COMPOSITION OF ALL ADMIXTURES. INCLUDE AGGREGATE TYPE, SOURCE, AND AGGREGATE GRADATION WITH PERCENT PASSING ON EACH SIEVE FOR EACH AGGREGATE SIZE GROUP, WITH NO SIEVES SKIPPED, AND TOTAL COMBINED RETAINED FOR ALL SIZE GROUPS. SUBMIT 14 DAYS MINIMUM PRIOR TO USE.
14. MIX AND TRANSPORT READY-MIXED CONCRETE IN ACCORDANCE WITH ASTM C94.
15. THE OWNER'S TESTING AGENCY WILL TEST SAMPLES OF CONCRETE FOR COMPRESSIVE STRENGTH, AIR CONTENT, SLUMP, DENSITY (UNIT WEIGHT) AND TEMPERATURE IN ACCORDANCE WITH ASTM C32, C39 AND C138 FROM THE FIRST TRUCK EACH DAY AND THEN EACH 50 CUBIC YARDS FOR EACH TYPE OF CONCRETE PLACED PER DAY, BUT NOT LESS THAN ONCE FOR EACH DAY OF CONCRETE PLACEMENT. WHEN ABOVE SCHEDULE PROVIDES LESS THAN FIVE TESTS PER TYPE OF CONCRETE, TEST FIVE RANDOM BATCHES. IF FEWER THAN 5 BATCHES ARE USED, TEST EACH BATCH. IF CONCRETE IS PUMPED, ENSURE TEST SAMPLES ARE TAKEN AT THE POINT OF PLACEMENT. EACH COMPRESSIVE TEST SHALL CONSIST OF FOUR TEST CYLINDERS TO BE TESTED AS FOLLOWS: TWO AT 7 DAYS, TWO AT 28 DAYS, ONE RESERVE.
16. CONFORM TO THE FOLLOWING:
  - A. CEMENT: ASTM C150
    - 1) TYPE I-II, II OR TYPE I CEMENT WITH MAXIMUM C3A CONTENT OF 8%.
  - B. AGGREGATES:
    - 1) ASTM C33, SUBJECT TO SEVERE WEATHERING AND ABRASION, SURFACE APPEARANCE IS IMPORTANT.
    - 2) OF TOTAL COMBINED COARSE AND FINE AGGREGATES PER MIX DESIGN, DO NOT ALLOW MATERIALS RETAINED ON ANY ONE SIEVE TO BE LESS THAN 6% NOR MORE THAN 24% OF TOTAL BY WEIGHT, EXCEPT:
      - a. LARGEST COARSE AGGREGATE SIZE TO BE #57 STONE, RETAIN 1% TO 8% OF TOTAL COMBINED AGGREGATES PER MIX DESIGN ON LARGEST SIEVE WITH RETAINED AGGREGATE.
      - b. NO. 30 AND 50 SIEVES TO BE 6% TO 15%.
      - c. TOTAL OF NO. 100 & 200 SIEVES PLUS PAN TO BE 3% TO 8%.
    - 3) GRADATION REQUIREMENTS OF ASTM C33 MAY BE WAIVED, IF ALLOWED BY ENGINEER, IN ORDER TO MEET 6% - 24% & OTHER RANGE NOTED ABOVE.
  - C. WATER: CLEAN AND POTABLE.
  - D. AIR ENTRAINMENT: ASTM C260
  - E. WATER-REDUCER: ASTM C494, TYPE A OR D IF APPROVED. NON-CHLORIDE TYPE.
  - F. RETARDER: ASTM C494, TYPE B OR D IF APPROVED.
  - G. ACCELERATOR: ASTM C494, TYPE 494, TYPE C OR E. NON-CHLORIDE AND NON-THIOCYANATE TYPE.
  - H. FLY ASH: ASTM C618, CLASS F, EXCEPT LOSS ON IGNITION NOT TO EXCEED 3%.
  - I. COARSE AGGREGATE BASE: CRUSHER RUN WITH ROCK FINES. USE ASTM D448, NO. 467, 57 OR 67 BLEND ONLY IF NOTED OR ALLOWED.
  - J. FINE AGGREGATE BASE: CLEAN SCREENINGS ASTM D448, NO. 10 WITH 6% TO 12% PASSING NO. 200 SIEVE. COMPACT WITH A MINIMUM OF TWO PASSES WITH A VIBRATORY PLATE COMPACTOR.
  - K. JOINT BACK-UP MATERIAL: POLYETHYLENE FOAM, CLOSED CELL.
  - L. EVAPORATION RETARDANT: "EUCCO-BAR" BY EUCLID OR "CONFILM" BY MASTER BUILDERS.
  - M. PAVEMENT SEALANT (IF NOTED ON PLAN): DOW 888 OR 890 BY DOW CORNING
  - N. LIQUID CURING AND SEALING COMPOUND (IF NOTED ON PLAN): COMPOUND: VOCOMP-20 BY WR MEADOWS OR APPROVED EQUAL.
  - O. REBAR SUPPORT DEVICES: CRSI MANUAL OF STANDARD PRACTICE.
17. DO NOT USE MANUFACTURED SAND EXCEPT AS A BLEND WITH NATURAL SAND AND/OR AS APPROVED BY ENGINEER.
18. ENSURE WEIGHT OF POZZOLAN DIVIDED BY SUM OF CEMENT AND POZZOLAN WEIGHTS IS AT LEAST 15% AND DOES NOT EXCEED FOLLOWING, UNLESS HIGHER LEVELS ARE NEEDED TO MITIGATE REACTIVITY OR SULFATES:
  - A. CLASS F FLY ASH: 20%
19. DO NOT USE CALCIUM CHLORIDE AS PART OF ADMIXTURE OR BY ITSELF.
20. ENSURE REINFORCING BARS CONFORM TO ASTM A615 GRADE 60, DEFORMED.
21. PROVIDE CLASS B TENSION LAP SPLICES PER ACI 318, FOR CONCRETE STRENGTH AND BAR LOCATIONS NOTED.
22. MAINTAIN FULL THICKNESS FOR DEPRESSED OR SLOPED PAVEMENTS.
23. ENSURE SUBGRADE AND BASE WATER CONTENT AT TIME OF CONCRETE PLACEMENT DOES NOT EXCEED THE WATER CONTENT REQUIRED FOR THE SPECIFIED MAXIMUM DRY DENSITY COMPACTION. THE TOP 2" OF BASE MATERIAL IS TO BE SURFACE DRY. BASE MAY BE DAMPENED WHEN INSTALLING AND COMPACTING.
24. CONFORM TO ACI 306.1 FOR COLD WEATHER CONCRETING AND ACI 305R WHEN ANY COMBINATION OF HIGH TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY TEND TO IMPAIR THE QUALITY OF THE CONCRETE. PROTECT SURFACES OR EXPOSED CONCRETE FROM PRECIPITATION DAMAGE UNTIL ADEQUATE STRENGTH IS GAINED TO PREVENT DAMAGE.
25. CONFORM TO ACI 302.1R, 304R, 308, 309R, AND 347R FOR CONCRETE, FORM WORK, CURING, AND RELATED ITEMS. CONFORM TO CRSI MANUAL OF STANDARD PRACTICE AND CRSI PLACING REINFORCING BARS FOR PLACING REINFORCING.
26. DO NOT ADD WATER OR PLAIN CEMENT TO ANY PAVEMENT SURFACE DURING FINISHING OPERATIONS.
27. PERFORM NO FINISHING OPERATION WHILE WATER IS PRESENT ON PAVEMENT SURFACE.
28. STRIKE OFF CONCRETE TO REQUIRED ELEVATIONS AND IMMEDIATELY START FINISHING/FLATTENING OPERATIONS. ENSURE FINISHING OPERATIONS ARE NOT MORE THAN NECESSARY TO REMOVE IRREGULARITIES AND MEET SPECIFIED TOLERANCES. PERFORM FINISHING OPERATIONS AS NECESSARY TO ENSURE PAVEMENT WILL DRAIN WELL. UNIFORMLY FINISH SURFACE TO TEXTURE PREVIOUSLY APPROVED BY OWNER'S REPRESENTATIVE. DO NOT ALLOW SURFACE TO DRY DURING FINISHING OPERATIONS AND BEFORE CURING COMPOUND IS APPLIED; USE EVAPORATION RETARDANT AS NECESSARY TO PREVENT SURFACE DRYING AND PLASTIC SHRINKAGE CRACKS, PER MANUFACTURER'S RECOMMENDATIONS.
29. START CURING AS SOON AS CONCRETE SURFACE WILL NOT BE DAMAGED BY CURING OPERATIONS. CURE CONCRETE CONTINUOUSLY FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS. CURE CONCRETE BY SPRAYING SURFACE WITH LIQUID CURING COMPOUND AT A COVERAGE RATE RECOMMENDED BY MANUFACTURER FOR CONCRETE SURFACE AND AMBIENT CONDITIONS.
30. CONCRETE SAW CUTTING AND DEMOLITION SEQUENCE PROCEDURE FOR PAVEMENT:
  - A. OBTAIN OWNER'S APPROVAL BEFORE STARTING WORK, AND VERIFY THERE ARE NO EMBEDDED UTILITIES THAT MIGHT BE DAMAGED.
  - B. SAWCUT PERIMETER OF DEMOLITION AREA FULL DEPTH OF PAVEMENT. DO NOT LET SAWCUTS CROSS. IF DEMOLITION CANNOT BE DONE WITHOUT THE SAWCUTS CROSSING, THEN CORE DRILL CORNERS WITHOUT THE SAWCUTS CROSSING, THEN CORE DRILL CORNERS WITH A 6 INCH MINIMUM DIAMETER CORE FULL DEPTH OF THE PAVEMENT.
  - C. PROTECT SAWCUT EDGE WITH A 1/8 INCH THICK MINIMUM BENT PLATE, ANGLE OR OTHER ACCEPTABLE MEANS AND CAREFULLY REMOVE PAVEMENT WITHOUT DAMAGING THE SURROUNDING AREAS.
  - D. OBTAIN OWNER'S REPRESENTATIVE APPROVAL OF EDGE CONDITION BEFORE PROCEEDING WITH WORK. IF SAWCUT EDGE IS DAMAGED, REPAIR WITH MODIFIED URETHANE MORTAR AS REQUIRED BY OWNER'S REPRESENTATIVE.
31. PRE-CONSTRUCTION MEETINGS:
  - A. ATTEND PRE-CONSTRUCTION MEETING TO BE SCHEDULED AT LEAST 7 DAYS BEFORE STARTING MAIN CONCRETE PAVEMENT.
  - B. ATTENDANCE DESIGNATED BY THE OWNER'S REPRESENTATIVE AND THE FOLLOWING: TESTING AGENCY, CONTRACTOR, CONCRETE SUPPLIER (INCLUDING QUALITY CONTROL PERSONNEL), AND SUBCONTRACTORS.
  - C. REPRESENTATIVES ARE TO BE PERSONNEL WHO ARE DIRECTLY INVOLVED IN PROJECT AND WHO HAVE AUTHORITY TO CONTROL WORK.

**PCC NOTES**

REVISIONS:	
1	
2	
3	
PLAN NAME	
<p><b>City of Buckeye</b> <b>Fire Station No. 705</b></p>	
ENGINEER INFORMATION	
 <p><b>CIVIL DESIGN SOLUTIONS, L.L.C.</b> Civil Engineering Land Development Water Resources 10910 West Palm Lane Avondale, AZ 85392 Phone: 602.214.4854 www.CDSLCC-AZ.net</p>	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL
	
ORIGINAL PLAN DATE	LATEST REVISION DATE
June 6, 2019	
PROJECT NUMBER	SHEET NUMBER
1102-18	COO4



SUBMITTAL:  
COB PLAN TRACKING #  
COB PERMIT #



**DEMOLITION KEYNOTES**

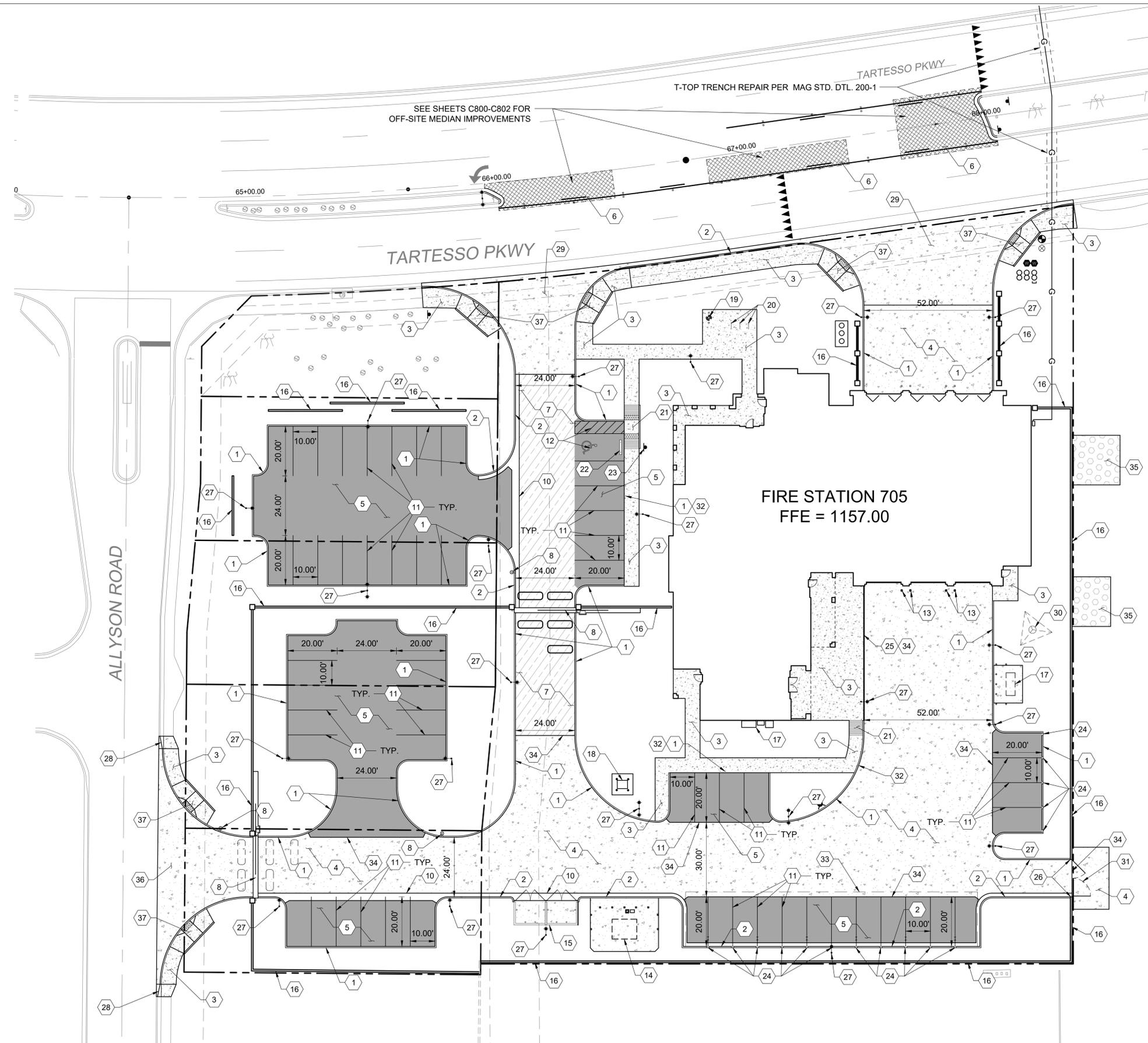
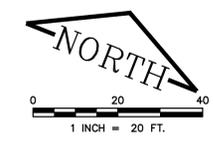
- ① SAWCUT EXISTING PAVEMENT TO A NEAT CLEAN VERTICAL EDGE.
- ② REMOVE EXISTING CONCRETE CURB OR CURB AND GUTTER.
- ③ REMOVE EXISTING ASPHALT PAVEMENT FULL DEPTH.
- ④ REMOVE EXISTING CONCRETE PAVEMENT.
- ⑤ REMOVE EXISTING PCC SIDEWALK.
- ⑥ REMOVE EXISTING CONCRETE VALLEY GUTTER.
- ⑦ REMOVE EXISTING SITE WALL, COLUMN, AND FOOTING OR FOUNDATION.
- ⑧ REMOVE EXISTING ELECTRICAL TRANSFORMER, CONCRETE PAD, CONDUITS, WIRING, AND APPURTENANCES.
- ⑨ REMOVE UTILITY PEDESTAL.
- ⑩ SEE SHEET C800 FOR REMOVAL OF ITEMS PART OF TARTESSO MEDIAN IMPROVEMENTS.
- ⑪ NOT USED.
- ⑫ REMOVE 28 LF EXISTING WATER MAIN STUB.
- ⑬ REMOVE EXISTING SHRUBS OR TREES. REFER TO LANDSCAPE PLANS FOR MORE INFORMATION.
- ⑭ SITE WALL TO REMAIN.
- ⑮ REMOVE IRRIGATION CONTROLLER FROM WALL PRIOR TO WALL DEMOLITION. REFER TO LANDSCAPE PLANS.
- ⑯ NOT USED.
- ⑰ PROTECT FIBER OPTIC AND UNDERGROUND ELECTRIC LINES IN PLACE.

**GENERAL NOTES**

- 1. THE CONTRACTOR SHALL FIELD WALK THE SITE WITH THE COB PROJECT MANAGER TO COORDINATE THE DEMOLITION PHASING AND ACTIVITIES.
- 2. THE CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITIES FOR ALL DEMOLITION ACTIVITIES.
- 3. REMOVE SITE VEGETATION AND LANDSCAPE IRRIGATION WITHIN THE WORK LIMITS AS NECESSARY. REFER TO LANDSCAPE PLANS.
- 4. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED ITEMS PER FEDERAL, STATE, AND LOCAL REGULATIONS.

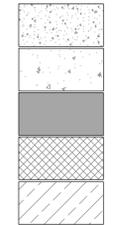
REVISIONS:	
1	
2	
3	
PLAN NAME	
<b>DEMOLITION PLAN</b> <b>Fire Station No. 705</b>	
ENGINEER INFORMATION	
<b>CIVIL DESIGN SOLUTIONS, L.L.C.</b> Civil Engineering Land Development Water Resources 10910 West Palm Lane Avondale, AZ 85392 Phone: 602.214.4854 www.CDSLIC-AZ.net	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL
ORIGINAL PLAN DATE	LATEST REVISION DATE
June 6, 2019	
PROJECT NUMBER	SHEET NUMBER
1102-18	C100
SUBMITTAL:	COB PLAN TRACKING #
	COB PERMIT #





**PAVING KEYNOTES**

- 1 TYPE 'A' CONCRETE VERTICAL CURB PER MAG STD DTL 222.
- 2 TYPE 'A' CONCRETE VERTICAL CURB AND GUTTER PER MAG STD DTL 220-1.
- 3 4" CONCRETE SIDEWALK ON 4" ABC PER MAG STD DTL 230. REFER TO ARCHITECTURAL PLANS FOR FINISH AND JOINTING.
- 4 HEAVY DUTY CONCRETE PAVEMENT SECTION. 7" PCC OVER 4" ABC PER DETAIL 12 ON SHEET C601. REFER TO SHEET C201 FOR PCC JOINTING PLAN.
- 5 STANDARD DUTY ASPHALT PAVEMENT SECTION. 2" AC OVER 4" ABC PER DETAIL 12 ON SHEET C601.
- 6 TARTESSO PARKWAY PAVEMENT SECTION PER COB STD DTL 63140. SEE SHEET C801.
- 7 HEAVY DUTY ASPHALT PAVEMENT SECTION. 3" AC ON 6" ABC PER DETAIL 12 ON SHEET C601.
- 8 MOTORIZED GATE AND/OR GATE ACCESS PEDESTAL. REFER TO ARCHITECTURAL AND ELECTRICAL PLANS.
- 9 CURB OPENING PER DETAIL 17 ON SHEET C602.
- 10 MODIFIED VALLEY GUTTER PER MAG STD DTL 240, MODIFIED TO 3' WIDTH. POUR MONOLITHICALLY WITH SITE PAVING.
- 11 4" WIDE WHITE PAINTED PARKING STRIPE (TWO COATS APPLIED 30 DAYS APART).
- 12 ACCESSIBLE PARKING SPACE AND AISLE PER DETAIL 14 ON SHEET C601.
- 13 BOLLARD. REFER TO ARCHITECTURAL PLANS.
- 14 FUEL STATION. REFER TO ARCHITECTURAL PLANS.
- 15 TRASH ENCLOSURE. REFER TO ARCHITECTURAL PLANS.
- 16 SITE WALL / SCREEN WALL / SITE FENCING. REFER TO ARCHITECTURAL PLANS.
- 17 EMERGENCY GENSET ENCLOSURE OR S.E.S. REFER TO ELECTRICAL AND ARCHITECTURAL PLANS.
- 18 PAD MOUNTED TRANSFORMER WITH 4 BOLLARDS. REFER TO ELECTRICAL PLANS.
- 19 FLAGPOLE LOCATION. REFER TO ARCHITECTURAL PLANS.
- 20 BICYCLE RACKS. REFER TO ARCHITECTURAL PLANS.
- 21 ACCESSIBLE RAMP PER DETAIL 16 ON SHEET C601.
- 22 PRECAST SAFETY CURB, TYPE "B-3", PER MAG STD DTL. 150.
- 23 ACCESSIBLE PARKING SPACE SIGN PER DETAIL 15 ON SHEET C601.
- 24 12" CURB OPENING PER DETAIL 17 ON SHEET C601.
- 25 4" RED PAINTED PARKING STRIPE (TWO COATS APPLIED 30 DAYS APART).
- 26 CURB TERMINATION TYPE A PER MAG STD DTL 222.
- 27 SITE LIGHT POLE, TYPICAL. REFER TO ELECTRICAL PLANS.
- 28 5' CURB TRANSITION PER MAG STD DTL 221.
- 29 COMMERCIAL ENTRANCE PER COB STD DTL 63452.
- 30 COMMUNICATIONS TOWER. REFER TO ARCHITECTURAL PLANS.
- 31 MANUAL SWING GATE. REFER TO ARCHITECTURAL PLANS.
- 32 SIDEWALK AND CURB CAN BE POURED MONOLITHICALLY PER DETAIL 13 ON SHEET C601.
- 33 ADD ALTERNATE: PARKING CANOPY. REFER TO ARCHITECTURAL PLANS.
- 34 THICKENED EDGE CONCRETE. REFER TO DETAILS ON SHEET C600.
- 35 GUNITE PROTECTION PER DETAIL 18 ON SHEET C602.
- 36 COMMERCIAL ENTRANCE PER COB STD DTL 63451.
- 37 ADA RAMP AT DRIVEWAY PER DETAIL 19 ON SHEET C602.



REVISIONS:

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PLAN NAME

**PAVING PLAN**  
**Fire Station No. 705**

ENGINEER INFORMATION



COB PERMITTING APPROVED SEAL

AS-BUILT SEAL

COB ENGINEERING APPROVED SEAL

DESIGN SEAL



ORIGINAL PLAN DATE

June 6, 2019

PROJECT NUMBER

1102-18

LATEST REVISION DATE

SHEET NUMBER

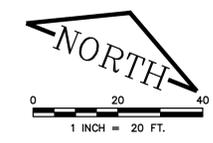
C200

SUBMITTAL:

COB PLAN TRACKING #

COB PERMIT #





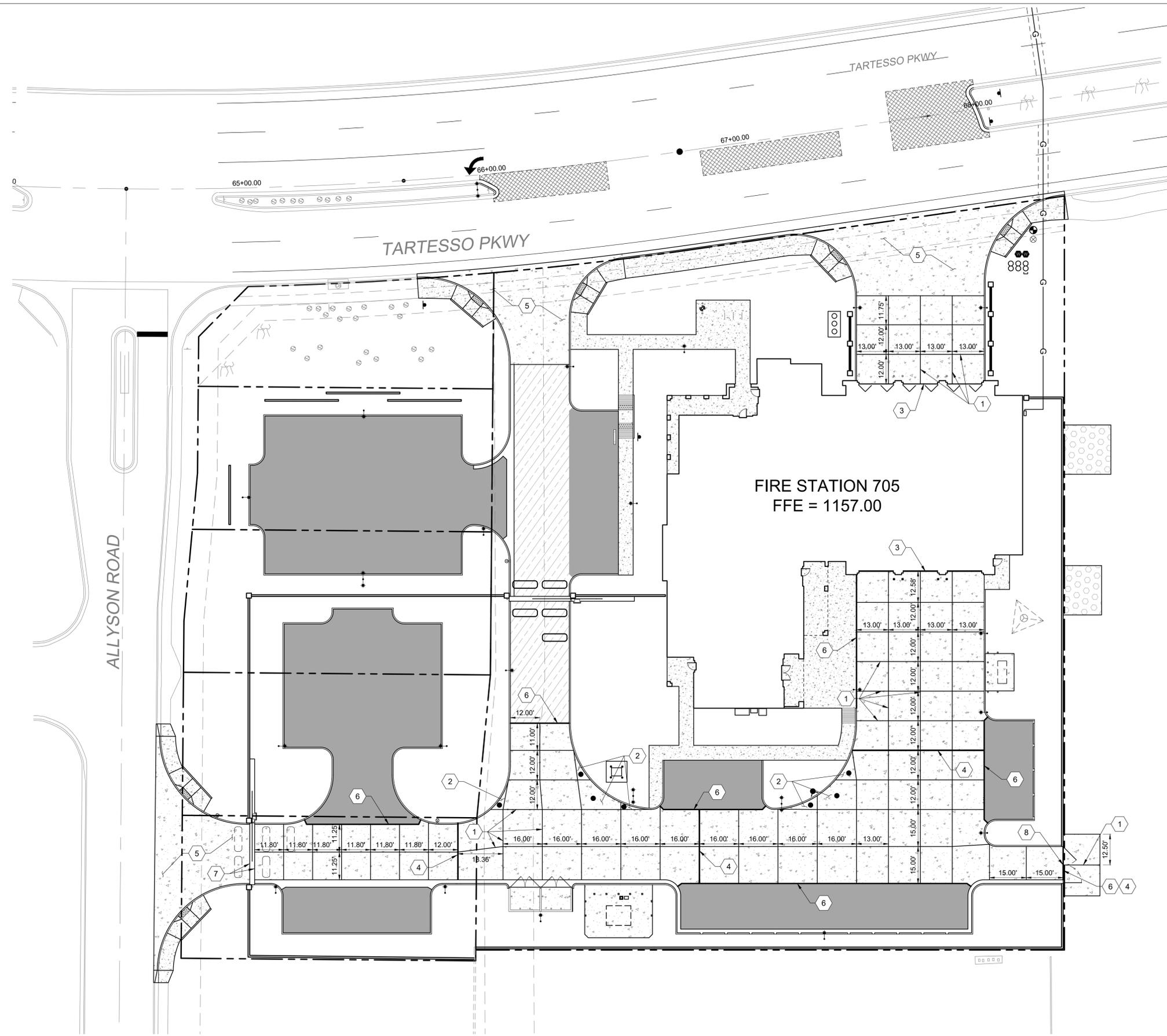
**CONCRETE JOINTING KEYNOTES**

- 1 CONTRACTION JOINT (TYP) PER DETAIL 11 ON SHEET C600.
- 2 PANEL TO BE REINFORCED PER DETAIL 8 ON SHEET C600. INDICATED WITH SOLID DOT.
- 3 REFER TO STRUCTURAL PLANS FOR REINFORCEMENT BETWEEN BUILDING SLAB AND APPROACH DRIVE.
- 4 ISOLATION JOINT WITH SLEEPER SLAB PER DETAIL 7 ON SHEET C600.
- 5 JOINTING PATTERN PER COMMERCIAL ENTRANCE DETAIL PER COB STD DTL 63451 OR 63452 .
- 6 CONSTRUCT THICKENED EDGE CONCRETE PAVEMENT PER DETAIL 10 ON SHEET C600.
- 7 GRADE BEAM AT GATE. PLACE EXPANSION JOINT MATERIAL ON EACH SIDE OF GRADE BEAM. SEE ARCHITECTURAL PLANS FOR GRADE BEAM DETAILS.
- 8 RE-ENTRANT JOINT PER DETAIL 5 ON SHEET C600.

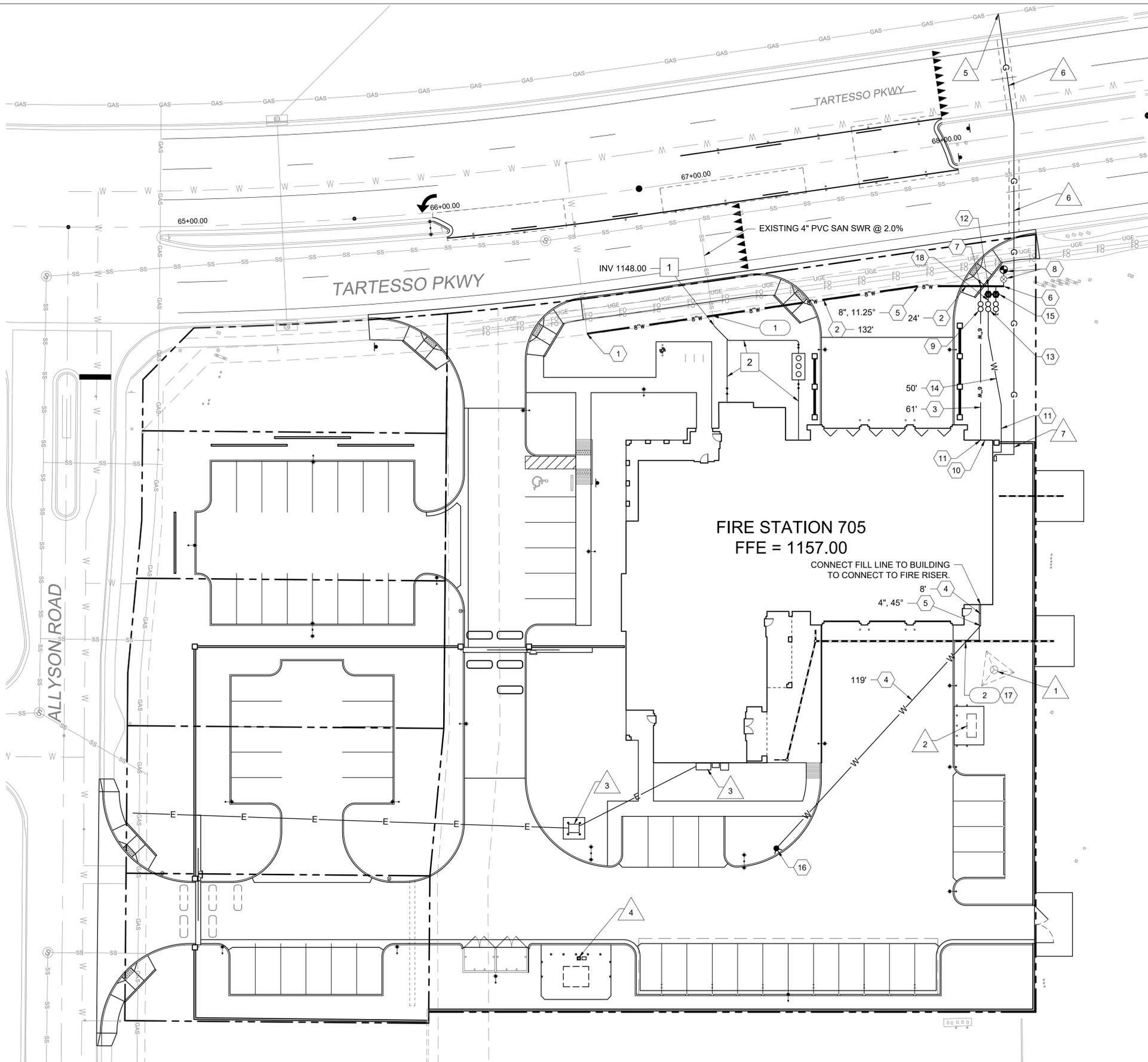
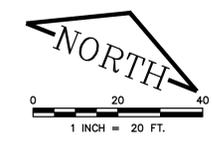
**GENERAL NOTES**

- 1. CONTRACTOR TO DISCUSS ISOLATION JOINT LOCATIONS SHOWN WITH THE ENGINEER BASED ON ANTICIPATED POUR SCHEDULE.
- 2. REFER TO ARCHITECTURAL PLANS FOR CONCRETE COLOR, FINISH, AND PATTERN.

REVISIONS:	
1	
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PLAN NAME	
<b>JOINTING PLAN</b> <b>Fire Station No. 705</b>	
ENGINEER INFORMATION	
 <b>CIVIL DESIGN SOLUTIONS, L.L.C.</b> Civil Engineering Land Development Water Resources 10910 West Palm Lane Avondale, AZ 85392 Phone: 602.214.4854 www.CDSLLC-AZ.net	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL
	 47102 WILLIAM E. GASQUE Expires 12/31/2019
ORIGINAL PLAN DATE	LATEST REVISION DATE
June 6, 2019	
PROJECT NUMBER	SHEET NUMBER
1102-18	C201
CALL TWO WORKING DAYS BEFORE YOU DIG 602-263-1100 1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)	SUBMITTAL: COB PLAN TRACKING # COB PERMIT #







**FIRE STATION 705**  
**FFE = 1157.00**  
 CONNECT FILL LINE TO BUILDING  
 TO CONNECT TO FIRE RISER

**SEWER KEYNOTES**

- 1 CONNECT BUILDING PLUMBING SERVICE TO EXISTING SANITARY SEWER STUB. SEE BUILDING PLUMBING PLANS FOR CONTINUATION.
- 2 BUILDING PLUMBING SERVICE. SEE PLUMBING PLANS.

**WATER KEYNOTES**

- 1 CONNECT TO EXISTING 8" D.I. WATER MAIN STUB WITH 8"-90 D.I. BEND.
- 2 8" AWWA C900 PVC WATER MAIN WITH DR14 RATING. LENGTH PER PLAN.
- 3 6" AWWA C900 PVC WATER MAIN WITH DR14 RATING. LENGTH PER PLAN.
- 4 4" AWWA C900 PVC WATER MAIN WITH DR 14 RATING. LENGTH PER PLAN.
- 5 D.I. BEND. SIZE AND TYPE PER PLAN.
- 6 8"x6" D.I. REDUCING BEND.
- 7 8"x8"x6" D.I. TEE.
- 8 6" GATE VALVE AND FIRE HYDRANT PER MAG STD. DTL. 360-1.
- 9 6" DOUBLE CHECK VALVE BACKFLOW ASSEMBLY PER COB STD. DTL. 31350.
- 10 PROVIDE FDC SIGN ABOVE FDC ON BUILDING PER COB STD. DTL. 31456.
- 11 CONNECT TO BUILDING WATER SERVICE. SEE PLUMBING PLAN OR FIRE PROTECTION PLAN FOR CONTINUATION.
- 12 2" WATER SERVICE CONNECTION WITH 2" WATER METER PER COB STD. DTL. 31330.
- 13 2.5" REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY PER COB STD. DTL. 31353.
- 14 2.5" TYPE K COPPER WATER SERVICE LINE. LENGTH PER PLAN.
- 15 1" LANDSCAPE WATER METER TAP, METER, AND BACKFLOW PREVENTION ASSEMBLY PER COB STD. DTL. 31330. SEE LANDSCAPE PLAN FOR CONTINUATION.
- 16 POST HYDRANT. SEE ARCHITECTURAL PLANS.
- 17 EXTRA PROTECTION AT CROSSING PER MAG STD DTL 404.
- 18 2"x2.5" REDUCER.

**DRY UTILITY KEYNOTES**

- 1 COMMUNICATIONS TOWER LOCATION.
- 2 DIESEL EMERGENCY GENERATOR LOCATION.
- 3 ELECTRIC TRANSFORMER AND S.E.S. LOCATION. REFER TO ELECTRICAL PLANS.
- 4 FUEL STATION LOCATION. REFER TO ARCHITECTURAL PLANS.
- 5 CONNECT TO EXISTING NATURAL GAS. COORDINATE WITH SOUTHWEST GAS.
- 6 2" NATURAL GAS SERVICE. TYPICAL TRENCHING REQUIREMENTS PER COB DTL 12100.
- 7 CONNECT TO NATURAL GAS BUILDING SERVICE. REFER TO PLUMBING PLANS.

**WATER/SEWER CROSSINGS**

- 1 FINISHED GRADE = 1156.00  
 BOTTOM WATER = 1151.13  
 TOP SANITARY SEWER = 1148.45
- 2 FINISHED GRADE = 1156.92  
 BOTTOM 12" STORM DRAIN = 1154.01  
 TOP 4" WATER SERVICE = 1152.00

REVISIONS:

1
2
3

PLAN NAME

**UTILITY PLAN**  
**Fire Station No. 705**

ENGINEER INFORMATION

**CIVIL DESIGN SOLUTIONS, L.L.C.**  
 Civil Engineering Land Development Water Resources  
 10910 West Palm Lane Avondale, AZ 85392  
 Phone: 602.214.4854 www.CDSLIC-AZ.net

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL

DESIGN SEAL



ORIGINAL PLAN DATE  
**June 6, 2019**

LATEST REVISION DATE

PROJECT NUMBER  
**1102-18**

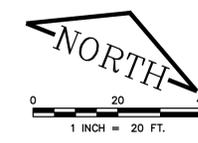
SHEET NUMBER  
**C400**



SUBMITTAL:

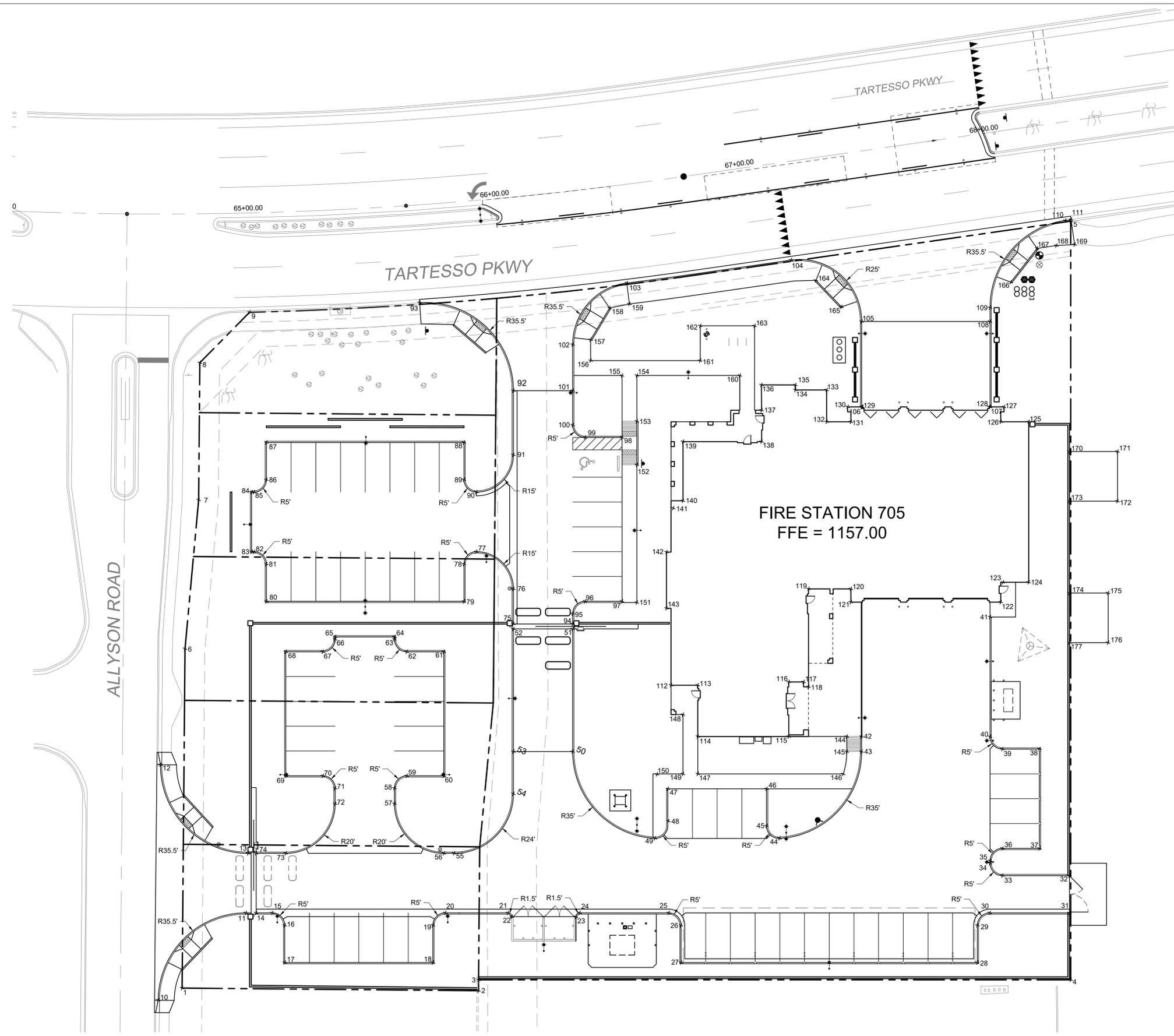
COB PLAN TRACKING #

COB PERMIT #



**GENERAL NOTES**

1. CONTROL POINT TABLES DESCRIBE THE FACE OF CURB AND EDGE OF PAVEMENT.
2. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.



REVISIONS:

- 1
- 2
- 3

PLAN NAME  
**HORIZONTAL CONTROL PLAN**  
**Fire Station No. 705**

ENGINEER INFORMATION  

**CIVIL DESIGN SOLUTIONS, L.L.C.**  
 Civil Engineering Land Development  
 Water Resources  
 10910 West Palm Lane Avondale, AZ 85392  
 Phone: 602.214.4854 www.CDSLLC-AZ.net

COB PERMITTING APPROVED SEAL  
 COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL  
 DESIGN SEAL



ORIGINAL PLAN DATE  
**June 6, 2019**

PROJECT NUMBER  
**1102-18**

LATEST REVISION DATE  
 SHEET NUMBER  
**C500**



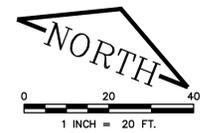
SUBMITTAL:  
COB PLAN TRACKING #  
COB PERMIT #

CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
1	PROP COR	904357.22	458286.79
2	PROP COR	904400.42	458398.75
3	PROP COR	904404.50	458397.18
4	PROP COR	904492.73	458620.12
5	PROP COR	904777.03	458507.60
6	PROP COR	904484.84	458237.56
7	PROP COR	904542.63	458220.61
8	PROP COR	904594.20	458200.72
9	PROP COR	904620.56	458211.98
10	FC	904349.11	458279.60
11	FC	904394.91	458299.65
12	FC	904437.71	458245.54
13	FC	904417.57	458291.69
14	FC	904396.44	458303.51
15	FC	904398.86	458309.63
16	FC	904396.05	458316.12
17	FC	904382.10	458321.64
18	FC	904404.18	458377.42
19	FC	904418.13	458371.90
20	FC	904424.62	458374.71
21	FC	904433.97	458398.35
22	FC	904433.13	458400.30
23	FC	904442.68	458424.43
24	FC	904444.63	458425.27
25	FC	904457.91	458458.83
26	FC	904455.10	458465.31
27	FC	904441.15	458470.83
28	FC	904485.31	458582.41
29	FC	904499.26	458576.89
30	FC	904505.75	458579.70
31	FC	904517.63	458609.73
32	FC	904531.58	458604.21
33	FC	904521.58	458578.95
34	FC	904524.39	458572.46
35	FC	904525.33	458572.09
36	FC	904531.82	458574.89
37	FC	904537.34	458588.84
38	FC	904574.53	458574.12
39	FC	904569.01	458560.17
40	FC	904571.82	458553.69
41	FC	904616.68	458535.93
42	FC	904552.75	458505.31
43	FC	904547.10	458507.55
44	FC	904502.36	458489.49
45	FC	904505.07	458482.77
46	FC	904518.98	458477.27
47	FC	904504.26	458440.08
48	FC	904492.24	458445.09
49	FC	904483.77	458442.54
50	FC	904504.04	458398.76
51	FC	904550.03	458380.56
52	FC	904541.19	458358.24
53	FC	904495.21	458376.44
54	FC	904479.40	458382.70
55	FC	904448.25	458369.21

CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
56	FC	904446.72	458365.34
57	FC	904457.96	458339.38
58	FC	904463.76	458337.09
59	FC	904470.25	458339.90
60	FC	904475.77	458353.84
61	FC	904522.26	458335.44
62	FC	904516.74	458321.50
63	FC	904519.55	458315.01
64	FC	904520.48	458314.64
65	FC	904511.64	458292.32
66	FC	904510.71	458292.69
67	FC	904504.22	458289.88
68	FC	904498.70	458275.94
69	FC	904452.21	458294.34
70	FC	904457.73	458308.28
71	FC	904454.92	458314.77
72	FC	904449.12	458317.07
73	FC	904423.17	458305.83
74	FC	904418.75	458294.68
75	FC	904543.05	458357.50
76	FC	904556.18	458352.31
77	FC	904564.61	458332.84
78	FC	904558.12	458330.03
79	FC	904544.17	458335.55
80	FC	904514.73	458261.17
81	FC	904528.67	458255.65
82	FC	904531.48	458249.16
83	FC	904531.12	458248.23
84	FC	904553.43	458239.40
85	FC	904553.80	458240.33
86	FC	904560.29	458243.14
87	FC	904574.24	458237.62
88	FC	904603.68	458312.00
89	FC	904589.73	458317.52
90	FC	904586.93	458324.01
91	FC	904606.39	458332.44
92	FC	904630.46	458322.91
93	FC	904649.43	458274.59
94	FC	904551.89	458379.82
95	FC	904555.72	458378.30
96	FC	904562.21	458381.11
97	FC	904567.73	458395.06
98	FC	904629.10	458370.77
99	FC	904623.58	458356.82
100	FC	904626.39	458350.33
101	FC	904639.29	458345.23
102	FC	904656.56	458338.39
103	FC	904687.70	458349.65
104	FC	904720.78	458408.11
105	FC	904708.27	458443.76
106	FC	904676.27	458456.42
107	FC	904695.40	458504.77
108	FC	904727.41	458492.11
109	FC	904732.60	458490.05
110	FC	904776.49	458505.44

CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
111	FC	904777.66	458507.49
112	BLDG	904543.57	458425.95
113	BLDG	904547.56	458436.02
114	BLDG	904528.34	458443.63
115	BLDG	904541.90	458477.88
116	BLDG	904562.35	458469.78
117	BLDG	904564.56	458475.36
118	BLDG	904563.44	458477.96
119	BLDG	904600.17	458463.42
120	BLDG	904606.48	458479.38
121	BLDG	904601.53	458481.34
122	BLDG	904623.85	458537.75
123	BLDG	904631.59	458535.64
124	BLDG	904635.46	458545.35
125	BLDG	904695.59	458521.55
126	BLDG	904691.42	458511.01
127	BLDG	904697.49	458510.04
128	BLDG	904695.28	458504.46
129	BLDG	904676.39	458456.73
130	BLDG	904674.18	458451.15
131	BLDG	904669.09	458454.60
132	BLDG	904665.47	458445.46
133	BLDG	904677.41	458440.74
134	BLDG	904672.74	458428.96
135	BLDG	904674.60	458428.22
136	BLDG	904669.58	458415.44
137	BLDG	904660.12	458419.26
138	BLDG	904648.34	458423.92
139	BLDG	904636.63	458394.32
140	BLDG	904614.47	458403.09
141	BLDG	904610.25	458400.51
142	BLDG	904592.80	458404.50
143	BLDG	904571.72	458412.84
144	SW	904550.55	458499.73
145	SW	904544.89	458501.97
146	SW	904535.99	458503.95
147	SW	904514.32	458449.18
148	SW	904534.35	458434.80
149	SW	904512.11	458443.60
150	SW	904508.07	458433.82
151	SW	904569.48	458400.82
152	SW	904621.08	458380.40
153	SW	904637.35	458373.96
154	SW	904654.55	458367.15
155	SW	904652.35	458361.57
156	SW	904653.24	458347.52
157	SW	904661.08	458344.42
158	SW	904675.76	458346.86
159	SW	904680.24	458353.72
160	SW	904669.89	458405.89
161	SW	904669.58	458388.81
162	SW	904682.60	458383.66
163	SW	904690.70	458404.12
164	SW	904716.91	458420.48
165	SW	904710.73	458434.02

CONTROL POINT TABLE			
POINT #	DESCRIPTION	NORTHING	EASTING
166	SW	904745.24	458494.06
167	SW	904761.79	458498.96
168	SW	904765.76	458505.79
169	SW	904768.83	458512.54
170	GUN EDGE	904690.51	458541.30
171	GUN EDGE	904697.67	458559.39
172	GUN EDGE	904679.08	458566.75
173	GUN EDGE	904671.92	458548.66
174	GUN EDGE	904637.50	458562.28
175	GUN EDGE	904624.27	458576.84
176	GUN EDGE	904624.67	458584.20
177	GUN EDGE	904618.91	458569.64



**GENERAL NOTES**

- CONTROL POINT TABLES DESCRIBE THE FACE OF CURB AND EDGE OF PAVEMENT.
- REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.

REVISIONS:

- 1
- 2
- 3

PLAN NAME

**HORIZ. CONTROL TABLES  
Fire Station No. 705**

ENGINEER INFORMATION



COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL

DESIGN SEAL



ORIGINAL PLAN DATE

June 6, 2019

LATEST REVISION DATE

PROJECT NUMBER

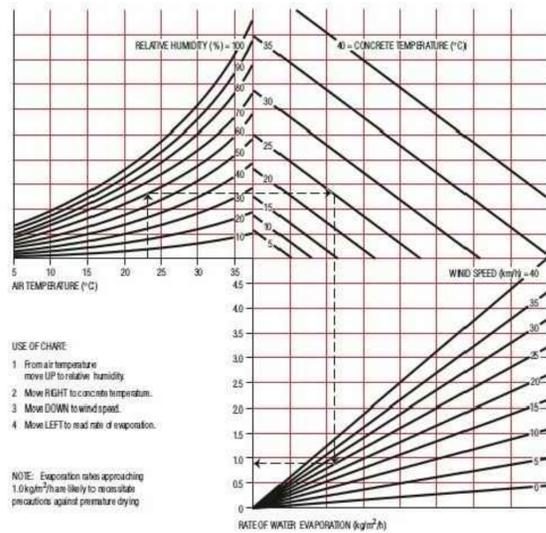
1102-18

SHEET NUMBER

C501

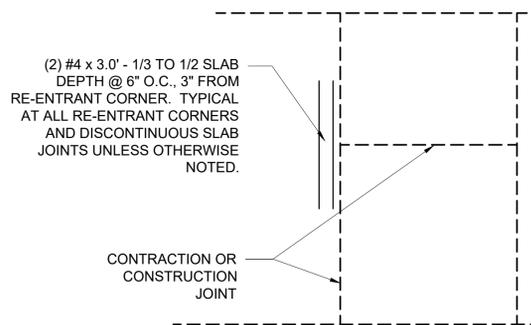


SUBMITTAL:  
COB PLAN TRACKING #  
COB PERMIT #

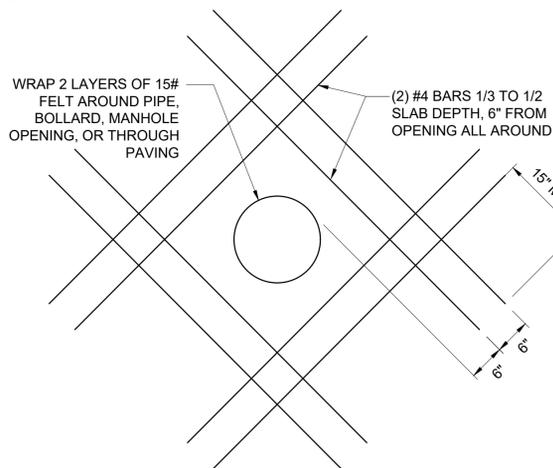


- TO USE THIS CHART:
1. ENTER WITH AIR TEMPERATURE AND MOVE UP TO RELATIVE HUMIDITY;
  2. MOVE RIGHT TO CONCRETE TEMPERATURE;
  3. MOVE DOWN TO WIND VELOCITY;
  4. MOVE LEFT TO READ RATE OF EVAPORATION.

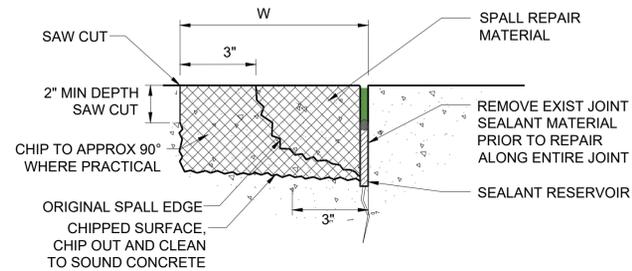
**1 CONCRETE EVAPORATION CHART**  
NTS



**5 RE-ENTRANT JOINT**  
NTS

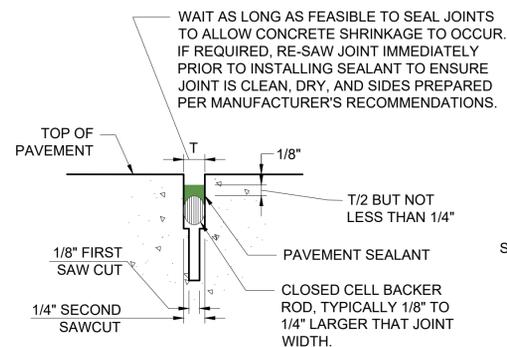


**9 REINFORCEMENT AT OPENINGS**  
NTS



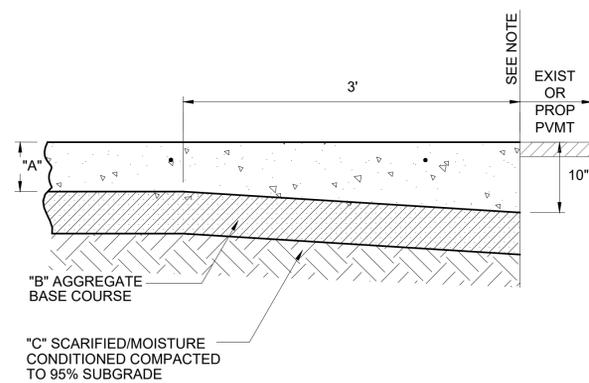
- NOTES:
1. "W" INDICATES THE WIDTH OF THE LIMITS OF REPAIR.
  2. LOCATION OF REPAIR TO BE DETERMINED IN THE FIELD AND CLEARLY MARKED.
  3. ALL AREAS TO BE CLEAN OF LOOSE DEBRIS AND DUST PRIOR TO APPLICATION OF EPOXY BONDING AGENT, APPLY PER MANUFACTURER'S RECOMMENDATIONS.
  4. SPALL REPAIR MATERIAL AT THE EXIST JOINT AREA SHALL NOT BE ALLOWED TO TOUCH OR BOND TO TECH EXIST CONCRETE.

**2 JOINT SPALL REPAIR @ EXIST RIGID PVMNT JOINT**  
NTS



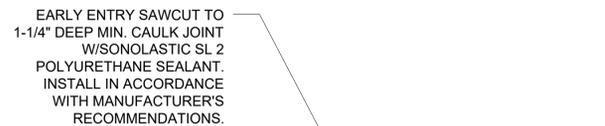
- NOTES:
1. ENSURE JOINTS ARE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE JOINT SEALANT.
  2. INSTALL CLOSED CELL BACKER ROD AFTER JOINTS HAVE BEEN CLEANED AND DRIED IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.
  3. INSTALL BACKER ROD AT CONSISTENT AND UNIFORM DEPTH.
  4. JOINT SEALANT APPLICATION SHALL BE IN STRICT COMPLIANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.

**6 CONCRETE JOINT DETAIL**  
NTS



- NOTES:
1. NOTE: WHEN PLACED ALONG EXISTING CURB, INSTALL BITUMINOUS FIBER & PER ISOLATION JOINT DETAIL 7 (NO DOWEL).
  2. "A", "B", AND "C" PER CONCRETE SECTION AND GEOTECHNICAL REPORT.

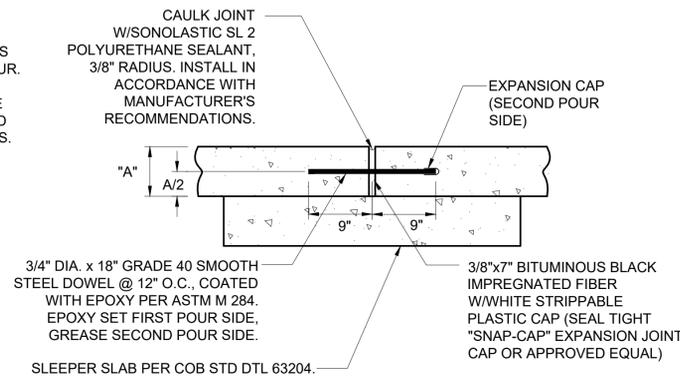
**10 THICKENED EDGE CONCRETE PAVEMENT**  
NTS



- DRILL 1" DIA. HOLE FOR 3/4" DIA. x 18" GRADE 40 SMOOTH STEEL DOWEL @ 12" O.C., COATED WITH EPOXY PER ASTM M 284. EPOXY SET EXIST SIDE, GREASE SECOND POUR SIDE.
- APPLY CURING COMPOUND TO SLAB FACE AT A RATE OF 300 SF MAX PER GALLON TO ACT AS A BOND BREAKER AT LEAST 48 HOURS PRIOR TO PLACING NEW SLAB.

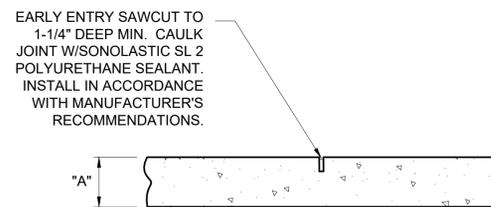
- NOTES:
1. "A" PER CONCRETE SECTION AND GEOTECHNICAL REPORT.
  2. 3/4" SQUARE DOWELS W/DOWEL CLIPS BY PNA, MAY BE SUBSTITUTED. CONTRACTOR TO SUBMIT REQUEST TO ENGINEER FOR APPROVAL.

**3 CONSTRUCTION JOINT AT EXISTING PAVEMENT**  
NTS



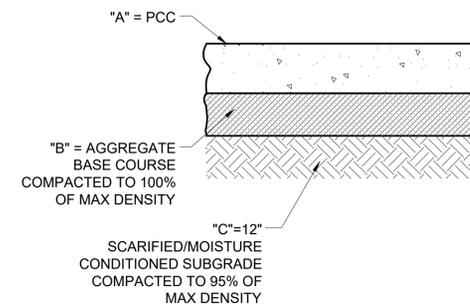
- NOTES:
1. "A" PER CONCRETE SECTION AND GEOTECHNICAL REPORT.
  2. 3/4" SQUARE DOWELS W/DOWEL CLIPS BY PNA, MAY BE SUBSTITUTED. CONTRACTOR TO SUBMIT REQUEST TO ENGINEER FOR APPROVAL.
  3. CONTRACTOR TO CONSTRUCT SLEEPER SLAB BELOW ALL ISOLATION JOINTS PER COB STANDARD DETAIL 63204.

**7 ISOLATION JOINT**  
NTS



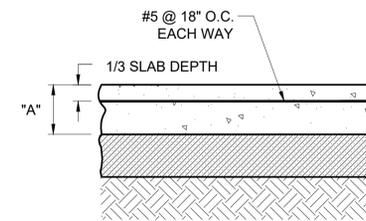
- NOTES:
1. "A" PER CONCRETE SECTION AND GEOTECHNICAL REPORT.
  2. PLUNGE CUT (BY HAND AS REQUIRED) ALL CONTRACTION JOINTS @ LOCATIONS ABUTTING STRUCTURES & CURBS.

**11 CONTRACTION JOINT**  
NTS



- NOTES:
1. REFER TO DETAIL 12 ON SHEET C601 FOR PCC PAVEMENT SECTION DETAILS.

**4 PCC PAVEMENT SECTION**  
NTS

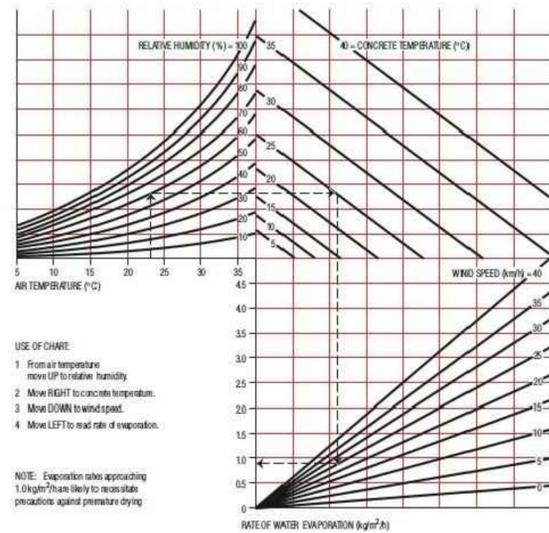


- NOTES:
1. SEE DETAIL 12 ON SHEET C601 FOR PAVEMENT INFORMATION

**8 REINFORCING AT PCC PAVEMENT SECTION**  
NTS

REVISIONS:	
1	
2	
3	
PLAN NAME	
<b>CONCRETE DETAILS Fire Station No. 705</b>	
ENGINEER INFORMATION	
<b>CIVIL DESIGN SOLUTIONS, L.L.C.</b> Civil Engineering Land Development Water Resources 10910 West Palm Lane Avondale, AZ 85392 Phone: 602.214.4854 www.CDSLLC-AZ.net	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL
47102 WILLIAM E. GASQUE Registered Professional Engineer State of Arizona Expires 12/31/2019	
ORIGINAL PLAN DATE	LATEST REVISION DATE
June 6, 2019	
PROJECT NUMBER	SHEET NUMBER
1102-18	C600
SUBMITTAL:	
COB PLAN TRACKING #	
COB PERMIT #	

CALL TWO WORKING DAYS BEFORE YOU DIG  
 602-263-1100  
 1-800-STAKE-IT  
 (OUTSIDE MARICOPA COUNTY)



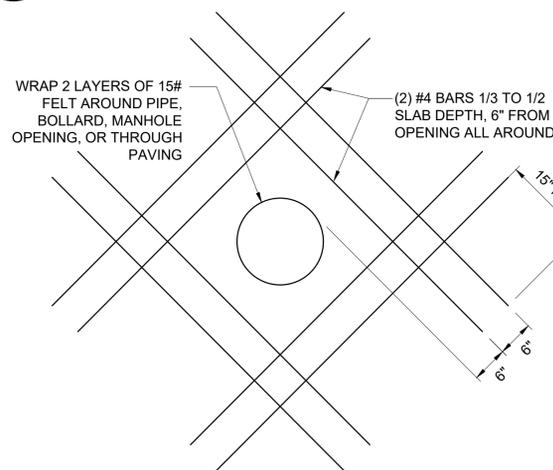
- TO USE THIS CHART:
- ENTER WITH AIR TEMPERATURE AND MOVE UP TO RELATIVE HUMIDITY;
  - MOVE RIGHT TO CONCRETE TEMPERATURE;
  - MOVE DOWN TO WIND VELOCITY;
  - MOVE LEFT TO READ RATE OF EVAPORATION.

**1 CONCRETE EVAPORATION CHART**  
NTS

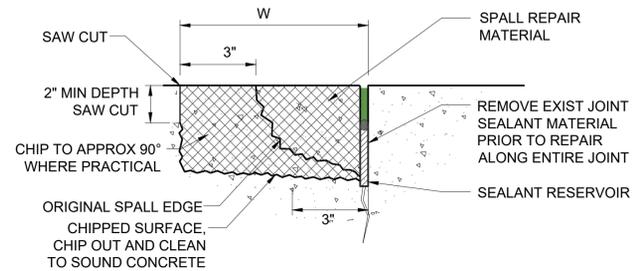
(2) #4 x 3.0' - 1/3 TO 1/2 SLAB DEPTH @ 6" O.C., 3" FROM RE-ENTRANT CORNER. TYPICAL AT ALL RE-ENTRANT CORNERS AND DISCONTINUOUS SLAB JOINTS UNLESS OTHERWISE NOTED.

CONTRACTION OR CONSTRUCTION JOINT

**5 RE-ENTRANT JOINT**  
NTS

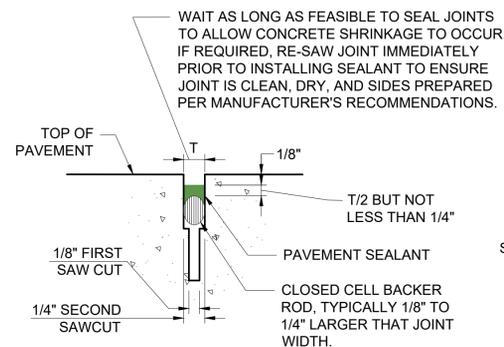


**9 REINFORCEMENT AT OPENINGS**  
NTS



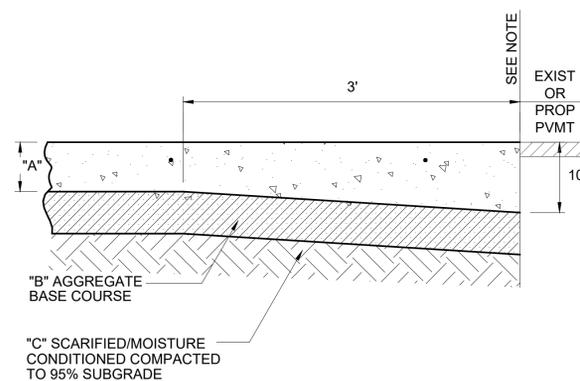
- NOTES:**
- "W" INDICATES THE WIDTH OF THE LIMITS OF REPAIR.
  - LOCATION OF REPAIR TO BE DETERMINED IN THE FIELD AND CLEARLY MARKED.
  - ALL AREAS TO BE CLEAN OF LOOSE DEBRIS AND DUST PRIOR TO APPLICATION OF EPOXY BONDING AGENT, APPLY PER MANUFACTURER'S RECOMMENDATIONS.
  - SPALL REPAIR MATERIAL AT THE EXIST JOINT AREA SHALL NOT BE ALLOWED TO TOUCH OR BOND TO TECH EXIST CONCRETE.

**2 JOINT SPALL REPAIR @ EXIST RIGID PVMNT JOINT**  
NTS



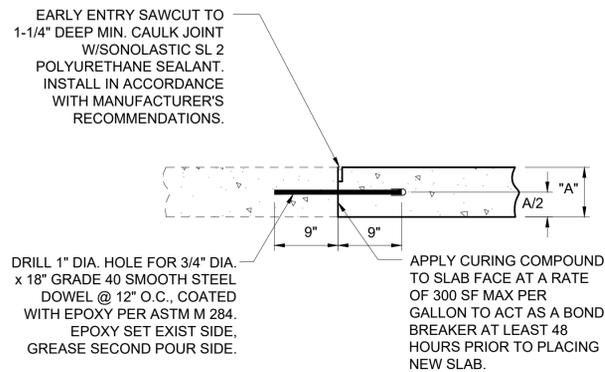
- NOTES:**
- ENSURE JOINTS ARE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE JOINT SEALANT.
  - INSTALL CLOSED CELL BACKER ROD AFTER JOINTS HAVE BEEN CLEANED AND DRIED IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.
  - INSTALL BACKER ROD AT CONSISTENT AND UNIFORM DEPTH.
  - JOINT SEALANT APPLICATION SHALL BE IN STRICT COMPLIANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.

**6 CONCRETE JOINT DETAIL**  
NTS



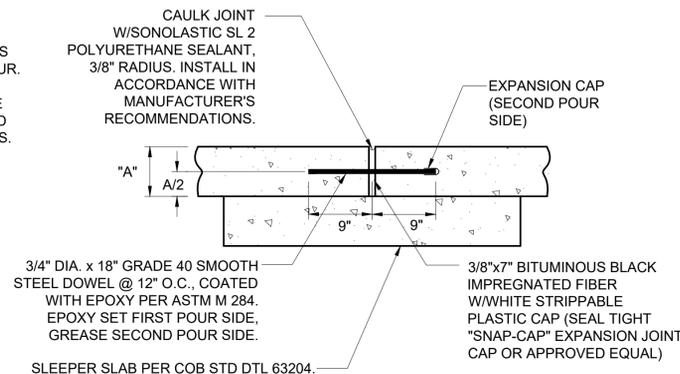
- NOTES:**
- NOTE: WHEN PLACED ALONG EXISTING CURB, INSTALL BITUMINOUS FIBER & PER ISOLATION JOINT DETAIL 7 (NO DOWEL).
  - "A", "B", AND "C" PER CONCRETE SECTION AND GEOTECHNICAL REPORT.

**10 THICKENED EDGE CONCRETE PAVEMENT**  
NTS



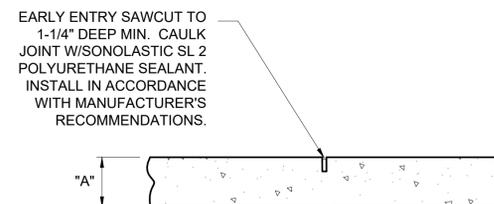
- NOTES:**
- "A" PER CONCRETE SECTION AND GEOTECHNICAL REPORT.
  - 3/4" SQUARE DOWELS W/DOWEL CLIPS BY PNA, MAY BE SUBSTITUTED. CONTRACTOR TO SUBMIT REQUEST TO ENGINEER FOR APPROVAL.

**3 CONSTRUCTION JOINT AT EXISTING PAVEMENT**  
NTS



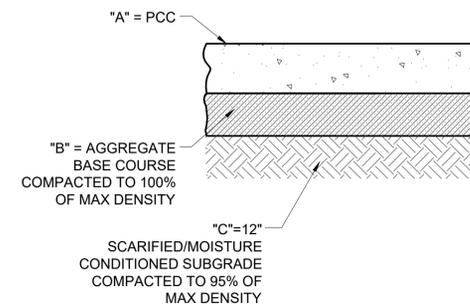
- NOTES:**
- "A" PER CONCRETE SECTION AND GEOTECHNICAL REPORT.
  - 3/4" SQUARE DOWELS W/DOWEL CLIPS BY PNA, MAY BE SUBSTITUTED. CONTRACTOR TO SUBMIT REQUEST TO ENGINEER FOR APPROVAL.
  - CONTRACTOR TO CONSTRUCT SLEEPER SLAB BELOW ALL ISOLATION JOINTS PER COB STANDARD DETAIL 63204.

**7 ISOLATION JOINT**  
NTS



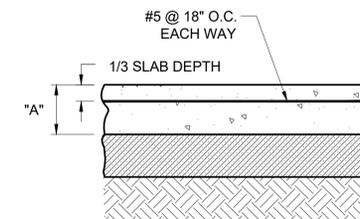
- NOTES:**
- "A" PER CONCRETE SECTION AND GEOTECHNICAL REPORT.
  - PLUNGE CUT (BY HAND AS REQUIRED) ALL CONTRACTION JOINTS @ LOCATIONS ABUTTING STRUCTURES & CURBS.

**11 CONTRACTION JOINT**  
NTS



- NOTES:**
- REFER TO DETAIL 12 ON SHEET C601 FOR PCC PAVEMENT SECTION DETAILS.

**4 PCC PAVEMENT SECTION**  
NTS



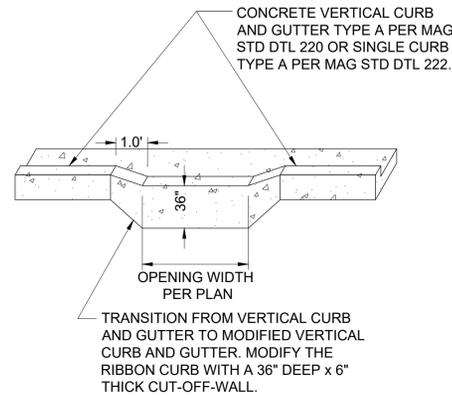
- NOTES:**
- SEE DETAIL 12 ON SHEET C601 FOR PAVEMENT INFORMATION

**8 REINFORCING AT PCC PAVEMENT SECTION**  
NTS

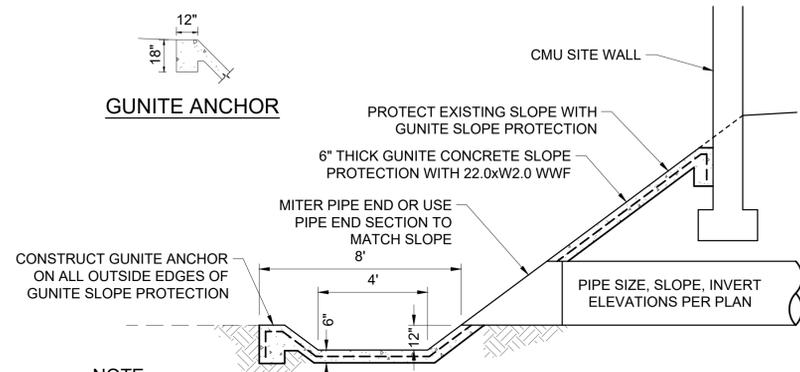
REVISIONS:	
1	
2	
3	
PLAN NAME	
<b>CONCRETE DETAILS Fire Station No. 705</b>	
ENGINEER INFORMATION	
<p>CIVIL DESIGN SOLUTIONS, L.L.C. Civil Engineering Land Development Water Resources 10910 West Palm Lane Avondale, AZ 85392 Phone: 602.214.4854 www.CDSLLC-AZ.net</p>	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL
<p>Professional Engineer 47102 WILLIAM E. GASQUE GASQUE AZ 85392 Expires 12/31/2019</p>	
ORIGINAL PLAN DATE	LATEST REVISION DATE
June 6, 2019	
PROJECT NUMBER	SHEET NUMBER
1102-18	C601
SUBMITTAL:	
COB PLAN TRACKING #	
COB PERMIT #	

CALL TWO WORKING DAYS BEFORE YOU DIG  
602-263-1100  
1-800-STAKE-IT  
(OUTSIDE MARICOPA COUNTY)



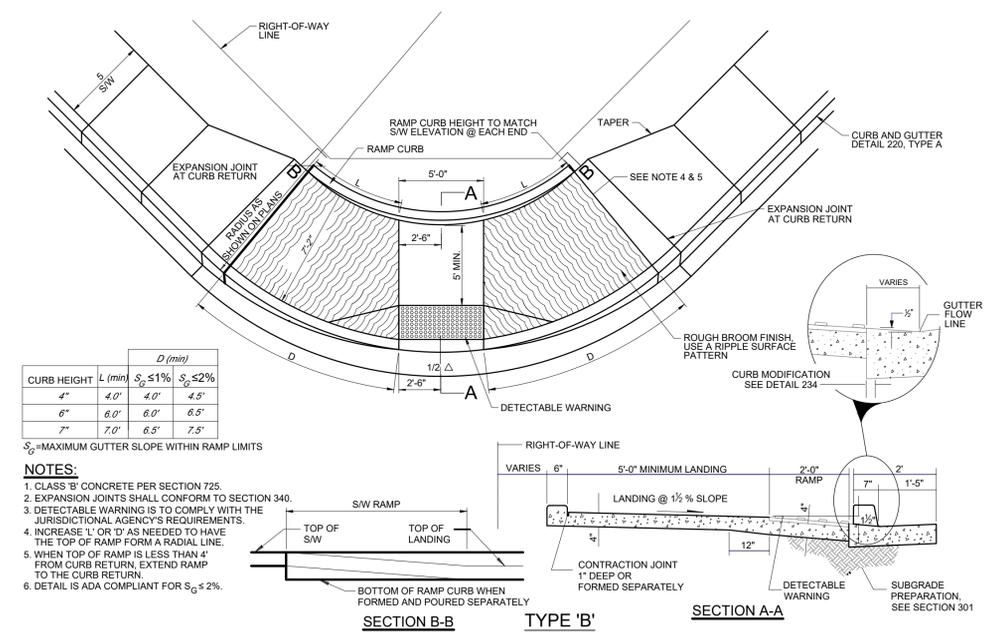


**17 CURB OPENING**  
NTS



**18 GUNITE PIPE END PROTECTION**  
NTS

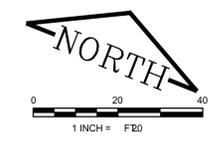
**NOTE**  
1. THE CONTRACTOR SHALL INSTALL SCREEN ON OUTLET PIPE FOR RODENT PROTECTION. ADS PIPE OULET GUARD OR EQUAL.



**19 ADA RAMP AT DRIVEWAYS**  
NTS

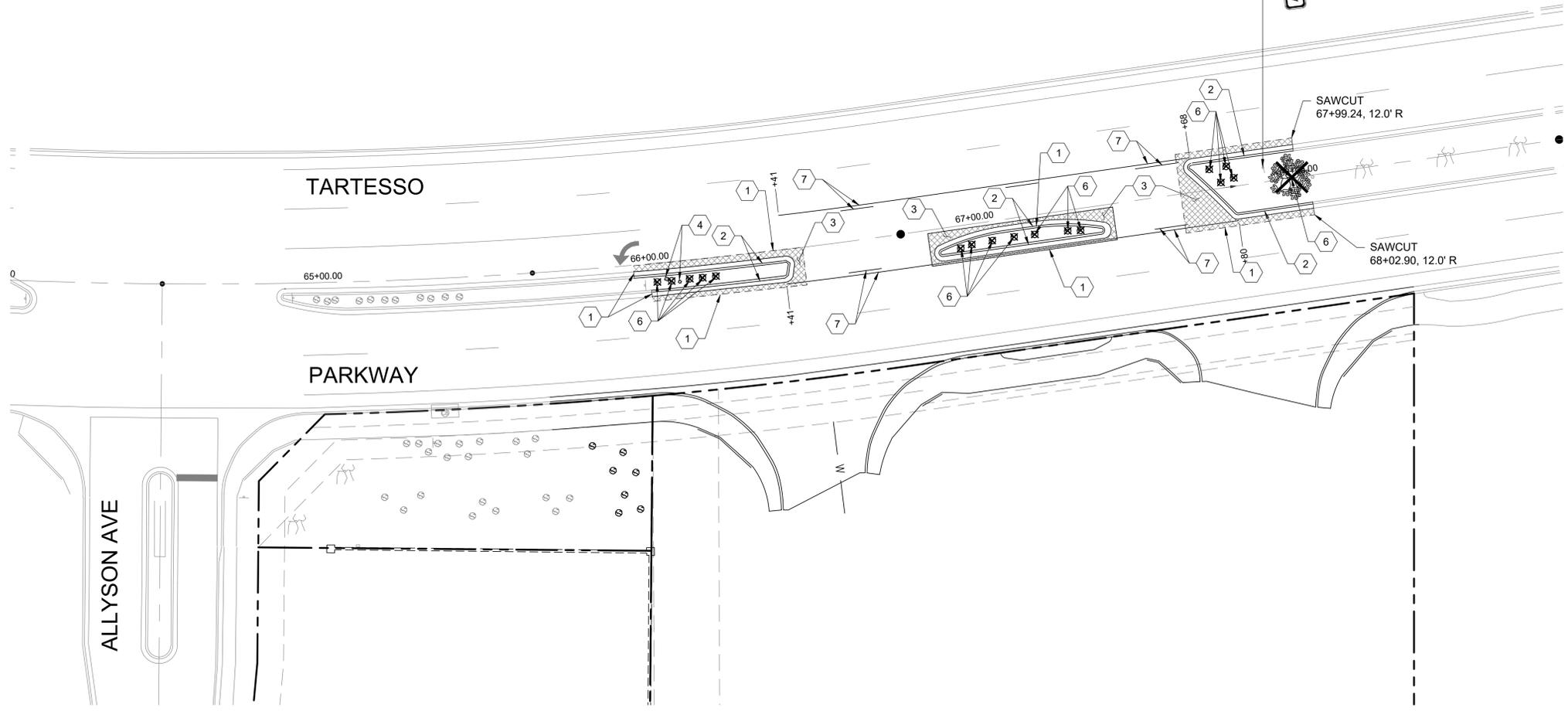
REVISIONS:	
1	
2	
3	
PLAN NAME <b>SITE DETAILS Fire Station No. 705</b>	
ENGINEER INFORMATION <b>CIVIL DESIGN SOLUTIONS, L.L.C.</b> Civil Engineering Land Development Water Resources 10910 West Palm Lane Avondale, AZ 85392 Phone: 602.214.4854 www.CDSLLC-AZ.net	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL 
ORIGINAL PLAN DATE <b>June 6, 2019</b>	LATEST REVISION DATE
PROJECT NUMBER <b>1102-18</b>	SHEET NUMBER <b>C602</b>
SUBMITTAL: COB PLAN TRACKING # COB PERMIT #	

CALL TWO WORKING DAYS BEFORE YOU DIG  
602-263-1100  
1-800-STAKE-IT  
(OUTSIDE MARICOPA COUNTY)



COB 65130: STREET NAME SIGN  
EXISTING SIGN TO BE RELOCATED  
FACING EAST  
STA. 67+89.26, 4.3' L

ALLYSON AVE



**DEMOLITION KEYNOTES**

- 1 SAWCUT EXISTING PAVEMENT FULL DEPTH TO A NEAT CLEAN VERTICAL EDGE.
- 2 REMOVE EXISTING CONCRETE CURB OR CURB AND GUTTER.
- 3 REMOVE EXISTING ASPHALT PAVEMENT FULL DEPTH.
- 4 REMOVE EXISTING STREET LIGHT FIXTURE, POLE, AND FOUNDATION. STORE FIXTURES AND POLE FOR LATER RELOCATION ON NEW FOUNDATION. EXTEND CONDUITS AND ELECTRICAL TO NEW LOCATION AS REQUIRED. REFER TO SHEET C801 FOR NEW FOUNDATION LOCATION.
- 5 REMOVE OR RELOCATE EXISTING SIGN, SIGN POLE, AND FOUNDATION. SEE SIGN TABLE ON SHEET C802.
- 6 REMOVE EXISTING SHRUBS OR TREES. REFER TO LANDSCAPE PLANS FOR MORE INFORMATION.
- 7 OBLITERATE EXISTING STRIPING BY SANDBLASTING. OBLITERATED PAVEMENT MARKINGS TO BE SLURRIED AND MICRO-SEALED PER CIOTY OF BUCKEYE STANDARDS.

**GENERAL NOTES**

- 1. SEE SHEET C100 FOR DEMOLITION AND REMOVALS OF EXISTING ITEMS LOCATED ON-SITE.
- 2. SEE SIGN TABLE ON SHEET C802 FOR DISPOSITION OF EXISTING SIGNS.

REVISIONS:

- 1
- 2
- 3

PLAN NAME  
**TARTESSO PKWY REMOVAL PLAN**  
**Fire Station No. 705**

ENGINEER INFORMATION  
**CIVIL DESIGN SOLUTIONS, L.L.C.**  
Civil Engineering Land Development Water Resources  
10910 West Palm Lane Avondale, AZ 85392  
Phone: 602.214.4854 www.CDSLLC-AZ.net

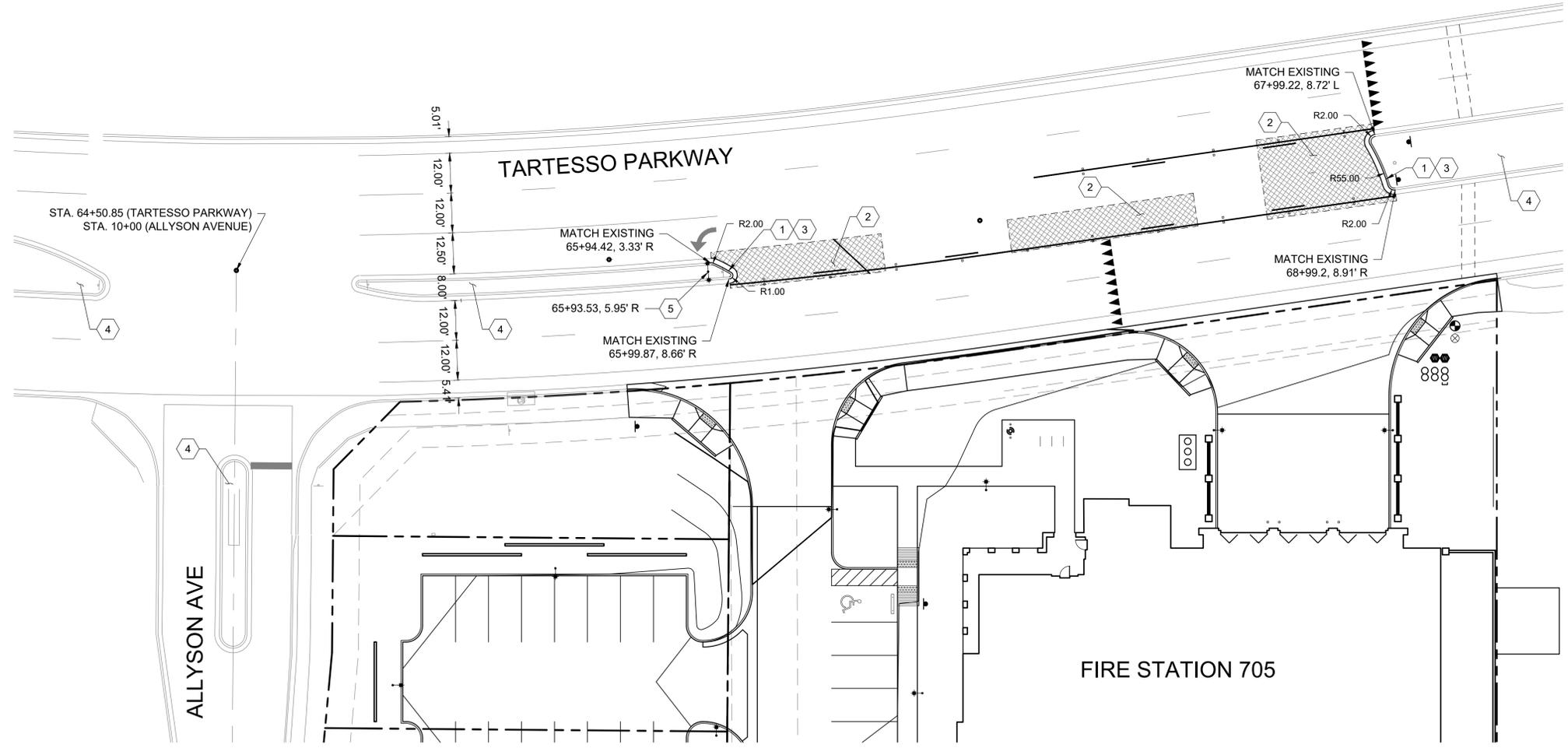
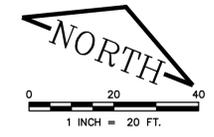
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL:
AS-BUILT SEAL	DESIGN SEAL	



ORIGINAL PLAN DATE <b>June 6, 2019</b>	LATEST REVISION DATE
PROJECT NUMBER <b>1102-18</b>	SHEET NUMBER <b>C800</b>



COB PLAN TRACKING #  
COB PERMIT #



**PAVING KEYNOTES**

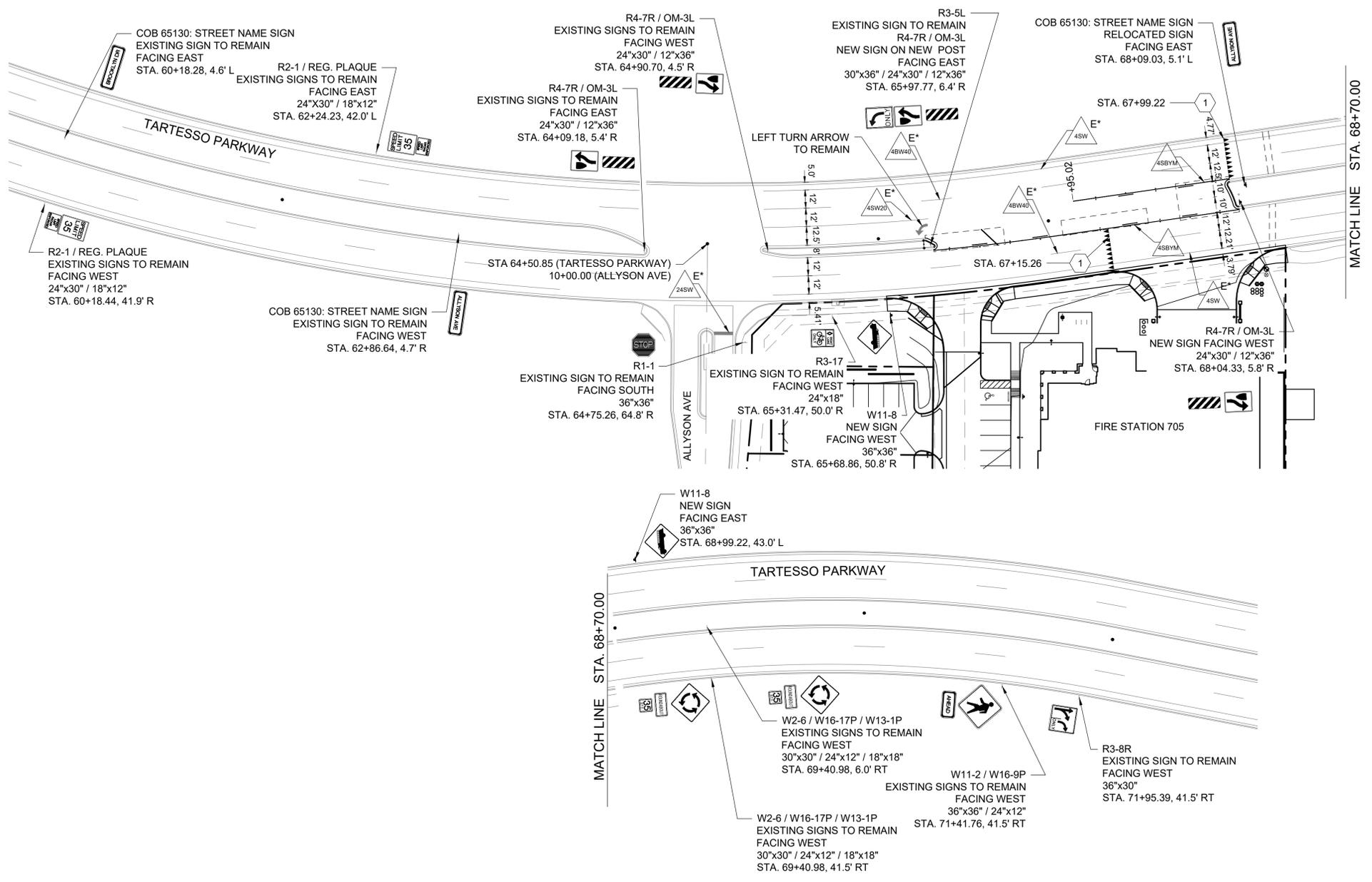
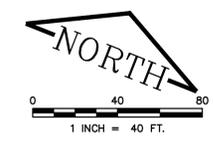
- 1 TYPE 'A' CONCRETE VERTICAL CURB AND GUTTER PER MAG STD DTL 220-1.
- 2 TARTESSO PARKWAY PAVEMENT SECTION, 2" A12.5mm GYRATORY SUPERPAVE AC OVER 4" A19.0mm GYRATORY SUPERPAVE AC OVER 12" ABC OVER 12" STABILIZED SUBGRADE COMPACTED TO 95% PER COB STD DTL 63140.
- 3 PAINT CURBED MEDIAN NOSE PER COB STD DTL 63220. ADD TYPE D YELLOW RPM'S AT 5' SPACING.
- 4 EXISTING MEDIAN TO REMAIN.
- 5 RELOCATED LIGHT POLE AND FIXTURES AS DIRECT BURY PER APS AND COB CONSTRUCTION STANDARDS AND DETAILS.

**GENERAL NOTES**

- 1. AC PAVING SHALL BE IN ACCORDANCE WITH SECTION 710.3.2.2.
- 2. SEE SHEETS C100 AND C800 FOR DEMOLITION AND REMOVALS OF EXISTING ITEMS.
- 3. SEE SHEET C802 FOR SIGNING AND MARKING PLAN.
- 4. CONTRACTOR SHALL PERFORM CRACK SEALING ON TARTESSO PARKWAY PAVEMENT ALONG FRONTAGE OF PROPERTY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER DETAILING METHOD OF SEALING FOR VARIOUS CRACK WIDTHS.

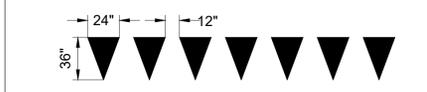
REVISIONS:	
1	
2	
3	
PLAN NAME	
TARTESSO PKWY IMP. PLAN Fire Station No. 705	
ENGINEER INFORMATION	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL
ORIGINAL PLAN DATE	LATEST REVISION DATE
June 6, 2019	
PROJECT NUMBER	SHEET NUMBER
1102-18	C801
COB PLAN TRACKING #	COB PERMIT #





**MARKING KEYNOTES**

1 INSTALL "SHARKS TEETH" PAVEMENT MARKING. THE MARKING SHALL BE REFLECTORIZED 90 MIL THICK ALKYD EXTRUDED THERMOPLASTIC.



**PAVEMENT STRIPING LEGEND**

NOTE: ALL PAVEMENT STRIPING INDICATED WITH SYMBOLS BELOW SHALL BE REFLECTORIZED 60 MIL THICK ALKYD SPRAY-ON THERMOPLASTIC WITH REFLECTIVE BEADS APPLIED IN ACCORDANCE WITH SECTION 704 OF ADOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

-  4" DOUBLE YELLOW YELLOW LINE, ONE SOLID, ONE BROKEN WITH A 10' LINE SEGMENT AND A 30' GAP WITH TYPE 'D' RPMS @ A 20' SPACING (SOLID) AND TYPE 'D' RPMS @ 40' SPACING (BROKEN)
-  EXISTING 4" BROKEN WHITE LINE WITH A 10' LINE SEGMENT AND A 30' GAP WITH TYPE 'G' RPMS @ 40' SPACING
-  EXISTING 4" SOLID WHITE LINE
-  EXISTING 4" SOLID WHITE LINE WITH TYPE 'G' RPMS @ 20' SPACING
-  EXISTING 24" SOLID WHITE STOP BAR

**GENERAL NOTES**

1. ALL SIGNING AND MARKING SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF BUCKEYE SIGNING AND MARKING STANDARDS, SECTION 6-5 OF THE ENGINEERING DESIGN STANDARDS.
2. SEE SHEETS C100 AND C800 FOR DEMOLITION AND REMOVALS OF EXISTING ITEMS.
3. SEE SHEET C801 FOR MEDIAN IMPROVEMENTS PLAN.
4. ALL SIGNS SHALL BE INSTALLED ON TYPICAL SIGN POST PER COB STD DTL 65120.
5. SEE SHEET C803 FOR SIGN TABLE.
6. CONTRACTOR SHALL PERFORM CRACK SEALING ON TARTESSO PARKWAY PAVEMENT ALONG FRONTAGE OF PROPERTY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER DETAILING METHOD OF SEALING FOR VARIOUS CRACK WIDTHS.
7. LEGENDS AND SYMBOLS SHALL BE COLD TAPE APPLIED, 3M L270ES OR 3M L380IES.

REVISIONS:	
1	
2	
3	
PLAN NAME TARTESSO PKWY S&M PLAN Fire Station No. 705	
ENGINEER INFORMATION  Civil Engineering, Land Development Water Resources 10910 West Palm Lane Avondale, AZ 85392 Phone: 602.214.4854 www.CDSLLC-AZ.net	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL 
ORIGINAL PLAN DATE June 6, 2019	LATEST REVISION DATE
PROJECT NUMBER 1102-18	SHEET NUMBER C802
SUBMITTAL: COB PLAN TRACKING # COB PERMIT #	



**SIGN TABLE**

SIGN CODE	NEW	EXISTING			OFFSET FROM CL		LEGEND	SIGN SIZE		GROUND MOUNT POSTS				
		REMOVE	SALVAGE & RELOCATE	REMAIN IN PLACE	LT (FT)	RT (FT)		WIDTH (IN)	LENGTH (IN)	NO. POSTS	TYPE LENGTH		FOUNDATIONS	
											P (FT)	U (FT)		LENGTH
STREET NAME				60+18.28	4.6		BROOKLYN DR	36	12					
R2-1				60+18.44		41.9	SPEED LIMIT 35	24	30					
REG. PLAQUE				60+18.44		41.9	SPEED LIMIT RADAR ENFORCED	18	12					
R2-1				62+24.23	42.0		SPEED LIMIT 35	24	30					
REG. PLAQUE				62+24.23	42.0		SPEED LIMIT RADAR ENFORCED	18	12					
STREET NAME				62+86.64		4.7	ALLYSON AVE	36	12					
R4-7R				64+09.18		5.4	KEEP RIGHT	24	30					
OM-3L				64+09.18		5.4	OBJECT MARKER	12	36					
R1-1				64+75.26		64.8	STOP SIGN	36	36					
R4-7R				64+90.70		4.5	KEEP RIGHT	24	30					
OM-3L				64+90.70		4.5	OBJECT MARKER	12	36					
R3-17				65+31.47		50.0	BIKE LANE SIGN	24	18					
W11-8	65+68.86					50.8	EMERGENCY VEHICLES	36	36	1	10.5			1
R3-5L				65+97.77		6.4	LEFT TURN ONLY	30	36					
R4-7R	65+97.77					6.4	KEEP RIGHT	24	30	1	13.5			1
OM-3L	65+97.77					6.4	OBJECT MARKER	12	36					
STREET NAME		67+89.26	68+09.03		4.3		ALLYSON AVE	36	12	2				2
R4-7R	68+04.33					5.8	KEEP RIGHT	24	30	1	10.5			1
OM-3L	68+04.33					5.8	OBJECT MARKER	12	36					
W11-8	68+99.22				43.0		EMERGENCY VEHICLES	36	36	1	10.5			1
W2-6				69+40.98		6.0	ROUNDABOUT	30	30					
W16-17P				69+40.98		6.0	ROUNDABOUT	24	12					
W13-1P				69+40.98		6.0	ADVISORY SPEED 35 MPH	18	18					
W2-6				69+40.98		41.5	ROUNDABOUT	30	30					
W16-17P				69+40.98		41.5	ROUNDABOUT	24	12					
W13-1P				69+40.98		41.5	ADVISORY SPEED 35 MPH	18	18					
W11-2				71+41.76		41.5	PEDESTRIAN	36	36					
W16-9P				71+41.76		41.5	ROUNDABOUT	24	12					
R3-8R				71+95.39		41.5	RIGHT ONLY RIGHT STRAIGHT ARROW	36	30					

REVISIONS:		
1		
2		
3		
PLAN NAME		
TARTESSO PKWY SIGN TABLE Fire Station No. 705		
ENGINEER INFORMATION		
 CIVIL DESIGN SOLUTIONS, L.L.C. Civil Engineering Land Development Water Resources 10910 West Palm Lane Avondale, AZ 85392 Phone: 602.214.4854 www.CDSLLC-AZ.net		
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL	SUBMITTAL:
AS-BUILT SEAL	DESIGN SEAL	
	 Professional Engineer 47102 WILLIAM E. GASQUE Expires 12/31/2019	COB PLAN TRACKING #
ORIGINAL PLAN DATE	LATEST REVISION DATE	COB PERMIT #
June 6, 2019		
PROJECT NUMBER	SHEET NUMBER	
1102-18	C803	

CALL TWO WORKING DAYS BEFORE YOU DIG  
602-263-1100  
1-800-STAKE-IT  
(OUTSIDE MARICOPA COUNTY)



**PRODUCT SPECIFIC PRACTICES**

THE FOLLOWING WILL BE FOLLOWED ON-SITE.

- PETROLEUM PRODUCTS:** ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS THAT ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCE USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- FERTILIZERS:** FERTILIZERS USED SHALL BE APPLIED ONLY IN THE AMOUNTS RECOMMENDED BY THE MANUFACTURER OR LANDSCAPE ARCHITECT. ONCE APPLIED, FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OR ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A PROPERLY LABELED, SEALABLE PLASTIC BIN TO AVOID SPILLS.
- PAINTS:** ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL NOT BE DISCHARGED INTO THE STORM WATER SYSTEM, BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND LOCAL, STATE, AND FEDERAL REGULATIONS.
- CONCRETE TRUCKS:** CONCRETE TRUCKS SHALL ONLY BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER AT THE APPROVED SITE WASH OUT LOCATION. THE LOCATION SHALL BE THOROUGHLY CLEANED AND RESTORED AT CLOSE OF PROJECT AND EXCESS CONCRETE DISPOSED OF OFF-SITE AT AN APPROVED LOCATION.
- WASTE MATERIALS:** ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER RENTED FROM A LICENSED SOLID WASTE MANAGEMENT COMPANY IN MARICOPA COUNTY, ARIZONA. THE DUMPSTER SHALL MEET ALL MARICOPA COUNTY WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER SHALL BE EMPTIED AS NECESSARY AT A MINIMUM OF ONCE BIWEEKLY OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED TO A LICENSED LANDFILL. NO CONSTRUCTION DEBRIS OR WASTE MATERIALS ARE TO BE BURIED ON-SITE. ALL PERSONNEL SHALL BE INSTRUCTED BY THE SITE SUPERINTENDENT REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PROCEDURES SHALL BE POSTED IN THE OFFICE TRAILER AND THE SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
- HAZARDOUS WASTE:** ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS, AND BY THE MANUFACTURER. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SITE SUPERINTENDENT, WHO WILL BE RESPONSIBLE FOR SEEING THESE PRACTICES ARE FOLLOWED.
- SANITARY WASTE:** ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED MARICOPA COUNTY WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY LOCAL REGULATION.
- OFFSITE VEHICLE TRACKING:** A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED ROADWAYS ADJACENT TO THE SITE ENTRANCE SHALL BE SWEEPED AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. HALL TRUCKS AND DUMP TRUCKS REMOVING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPAULIN.

**SPILL PREVENTION**

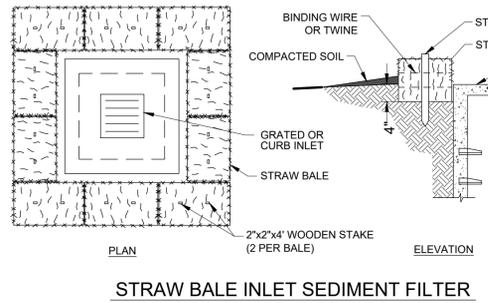
THE FOLLOWING MATERIAL MANAGEMENT PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

- GOOD HOUSEKEEPING:** THE FOLLOWING HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION OF THE PROJECT.
  - AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
  - ALL MATERIAL STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER ROOF OR OTHER ENCLOSURE.
  - PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
  - SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
  - WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
  - MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
  - THE SITE SUPERINTENDENT SHALL DAILY INSPECT ON-SITE MATERIAL TO ENSURE PROPER USE, STORAGE, AND DISPOSAL.
- HAZARDOUS PRODUCTS:** THESE PRACTICES SHALL BE FOLLOWED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.
  - PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED. THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
  - IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S LOCAL, STATE, AND FEDERAL RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

**SPILL CLEANUP**

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED ELSEWHERE IN THE SWPPP PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.

- MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED, AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS SHALL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGES, GLOVES, GOGGLES, KITTY LITTER, SAND, SAW DUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
- ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- THE SPILL AREA SHALL BE KEPT WELL VENTILATED, AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE.
- IF A SPILL OCCURS, THE SPILL PREVENTION PLAN SHALL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS PARTICULAR TYPE OF SPILL FROM REOCCURRING, AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES SHALL ALSO BE INCLUDED.
- THE SITE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE AT LEAST TWO OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE.

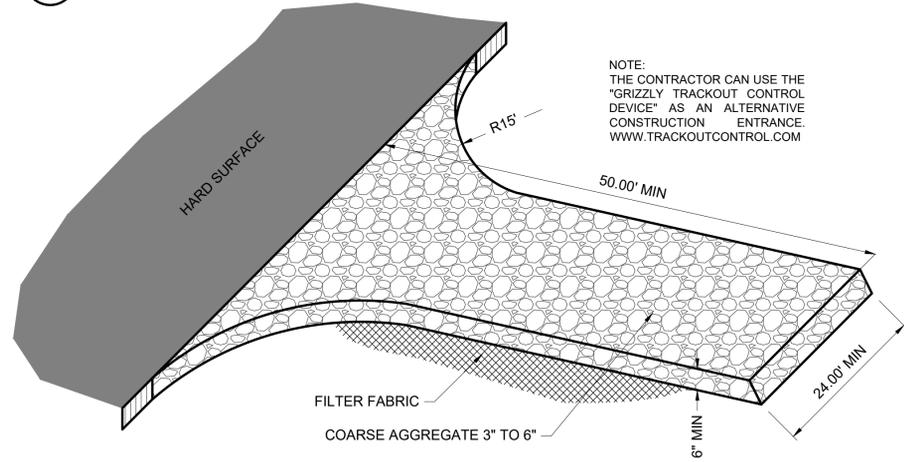


**IP C902 INLET PROTECTION NTS**

- SEDIMENT WATTLE SHOULD BE INSPECTED DURING THE NORMAL COURSE OF SWPPP INSPECTION AS OUTLINED IN THE GENERAL CONSTRUCTION PERMIT. INSPECTORS SHOULD NOTE ANY UV DEGRADATION OF THE MESH AND ANY TEARS WHICH WOULD PROVIDE A CHANNEL FOR TO WATER FLOW THROUGH THE MEDIA.
- THE WATTLE SHOULD BE RELATIVELY UNIFORM IN APPEARANCE WITH EVEN DISTRIBUTION OF THE MEDIA INSIDE THE MESH. EXCESSIVE STRETCHING OR PULLING WHICH REDUCES THE OUTSIDE DIAMETER OF THE WATTLE BY MORE THAN 30% SHOULD NOT BE ALLOWED.
- STAKING SHOULD BE SPACED SUFFICIENTLY TO KEEP THE SEDIMENT WATTLE IN PLACE WITHOUT SIGNIFICANT MOVEMENT WHEN FLOWS ARE PRESENT.
- SEDIMENT WATTLES WILL BE PLACED AT LOCATIONS INDICATED ON THE PLANS AS DIRECTED BY THE ENGINEER. THE WATTLES SHOULD BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA, PERPENDICULAR TO THE WATER FLOW. MAY BE USED IN DIRECT FLOW SITUATIONS WITHIN RUNOFF CHANNELS OR WASHES.
- SEDIMENT WATTLES SHOULD BE REGULARLY INSPECTED TO MAKE SURE THEY HOLD THEIR SHAPE AND ARE PRODUCING ADEQUATE FLOW THROUGH. IF PONDING BECOMES EXCESSIVE, AND SEDIMENT REACHES MORE THAN 50% OF THE HEIGHT OF THE WATTLE; EITHER ADDITIONAL WATTLES SHOULD BE ADDED TO THE TOP OF THE EXISTING WATTLES OR THE SEDIMENT SHOULD BE REMOVED TO THE ORIGINAL GRADE.
- WHEN CONSTRUCTION IS COMPLETE, THE WATTLE MAY BE CUT OPEN AND THE MEDIA DISPERSED WITH A LOADER, RAKE, SKID STEER OR OTHER DEVICE TO BE INCORPORATED IN THE SOIL OR LEFT ON TOP OF THE SOIL FOR FINAL SEEDING TO OCCUR. IF A MESH WATTLE IS USED, THE NETTING MATERIAL WILL BE COLLECTED AND DISPOSED OF IN NORMAL TRASH CONTAINER OR REMOVED BY THE CONTRACTOR.

**SW SEDIMENT WATTLE**

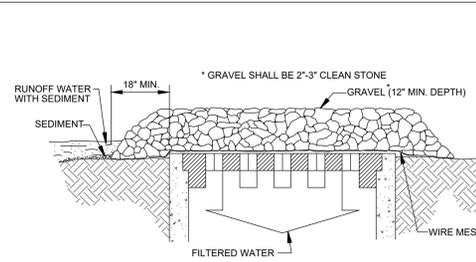
**PC C902 PERIMETER CONTROL (OR LINEAR PROTECTION) NTS**



**CE C902 CONSTRUCTION ENTRANCE NTS**

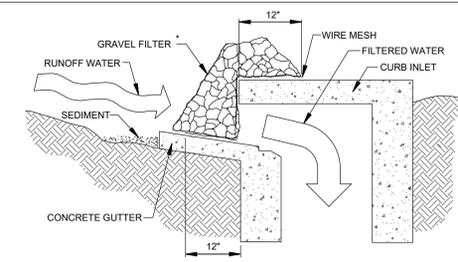
**GENERAL NOTES:**

- BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
- BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH ENDS OF ADJACENT BALES PRESSED TOGETHER.
- THE BALE SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED AROUND THE INLET THE WIDTH OF A BALE TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
- EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
- LOOSE STRAW SHALL BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.



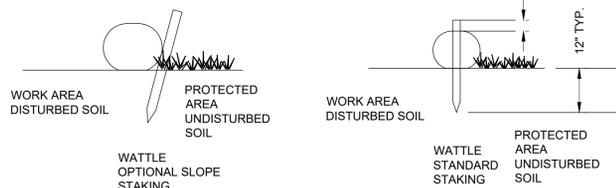
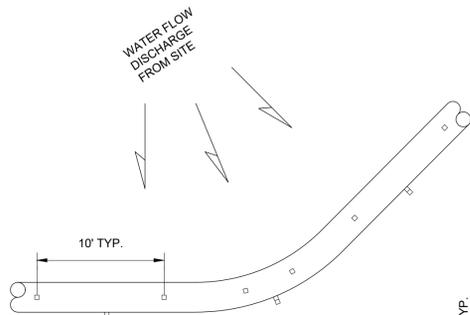
**SPECIFIC APPLICATION**  
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED ACRES.

**GRAVEL AND WIRE MESH INLET SEDIMENT FILTER**

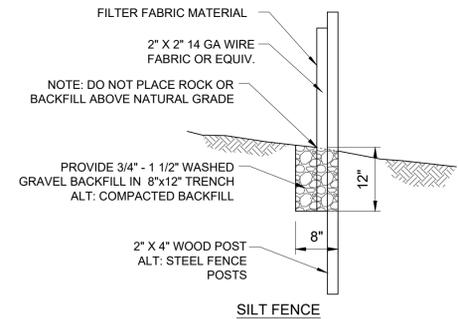
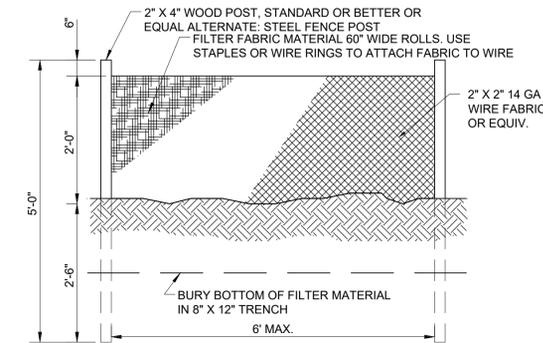


**SPECIFIC APPLICATION**  
THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

**GRAVEL CURB INLET SEDIMENT FILTER**



**SW SEDIMENT WATTLE**

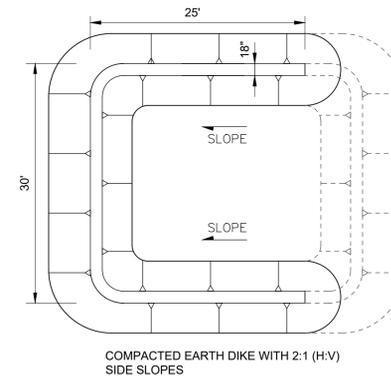


**CONCRETE TRUCK CLEANING AREA CONSTRUCTION SPECS:**

- BUILD A THREE SIDED DIKE 12'X12' (SEE SWPPP DWG).
- BUILD DIKES TO BE 18" HIGHER THAN EXISTING GRADE.
- DIKE SHOULD SLOPE DOWNWARD TOWARDS THE BACK OF THE WASH AREA SO WATER DOESNT RUN OUT OF CLEANING AREA.
- LINE THE PIT WITH PLASTIC SHEETING OF AT LEAST 10-MIL THICKNESS THAT HAS NO SEAMS.
- MOVE TRUCK WASHOUT AS NECESSARY FOR CONSTRUCTION PHASING.
- IF THE TRUCK WASH IS LOCATED ON FLAT GROUND, THAN A FOURTH DIKE SHALL BE CONSTRUCTED TO CONTAIN WASHOUT LIQUIDS.

**MAINTENANCE:**

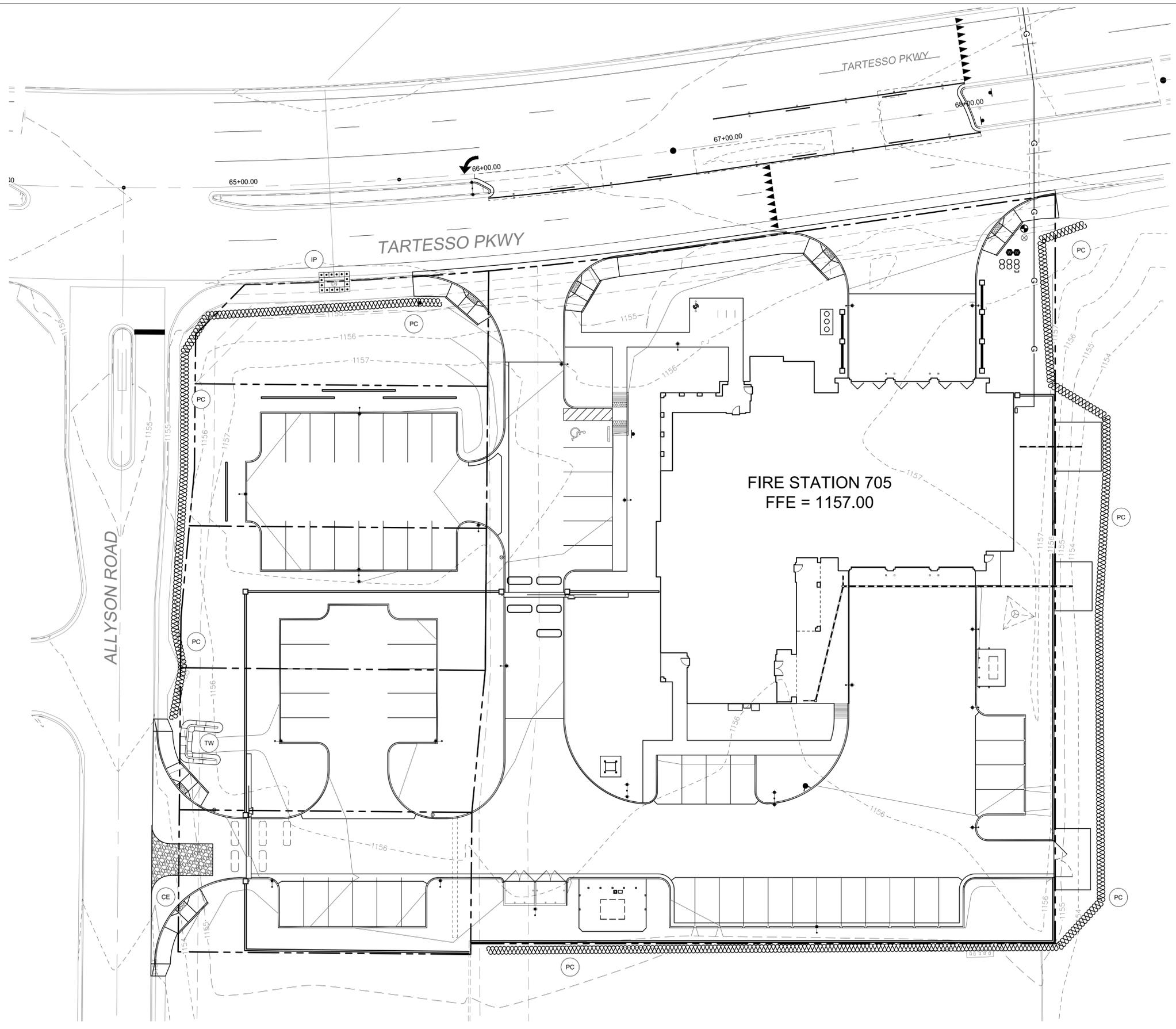
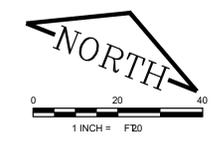
- INSPECT DIKES WEEKLY, AND AFTER ANY MAJOR STORM TO ENSURE THAT THEY ARE INTACT AND WILL NOT ALLOW ANY WATER TO RUN OUT OF CLEANING AREA.
- THOROUGHLY CLEAN AND RESTORE AT THE CLOSE OF THE PROJECT AND DISPOSE OF EXCESS CONCRETE AT AN OFF-SITE APPROVED LOCATION.



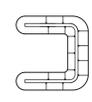
**TW C902 DETAIL - CONCRETE TRUCK WASHOUT NTS**

REVISIONS:	
1	
2	
3	
PLAN NAME	
<b>SWMP - NOTES &amp; DETAILS</b>	
<b>Fire Station No. 705</b>	
ENGINEER INFORMATION	
<p><b>CIVIL DESIGN SOLUTIONS, L.L.C.</b> Civil Engineering, Land Development, Water Resources 10910 West Palm Lane Avondale, AZ 85392 Phone: 602.214.4854 www.CDSLLC-AZ.net</p>	
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL
ORIGINAL PLAN DATE	LATEST REVISION DATE
June 8, 2019	
PROJECT NUMBER	SHEET NUMBER
1102-18	<b>C901</b>
SUBMITTAL:	
COB PLAN TRACKING #	
COB PERMIT #	

CALL TWO WORKING DAYS BEFORE YOU DIG  
602-263-1100  
1-800-STAKE-IT  
(OUTSIDE MARICOPA COUNTY)



**LEGEND**

-  (CE) STABILIZED CONSTRUCTION ENTRANCE PER DETAIL ON SHEET C901
-  (IP) INLET PROTECTION PER DETAIL ON SHEET C901
-  (PC) (LP) PERIMETER CONTROL OR LINEAR PROTECTION PER DETAIL ON SHEET C901
-  (TW) CONCRETE TRUCK WASHOUT PER DETAIL ON SHEET C901

REVISIONS:

- 1
- 2
- 3

PLAN NAME

**SWMP - PLAN  
Fire Station No. 705**

ENGINEER INFORMATION



COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL

DESIGN SEAL



ORIGINAL PLAN DATE  
**June 6, 2019**

LATEST REVISION DATE

PROJECT NUMBER  
**1102-18**

SHEET NUMBER  
**C902**



SUBMITTAL:

COB PLAN TRACKING #

COB PERMIT #