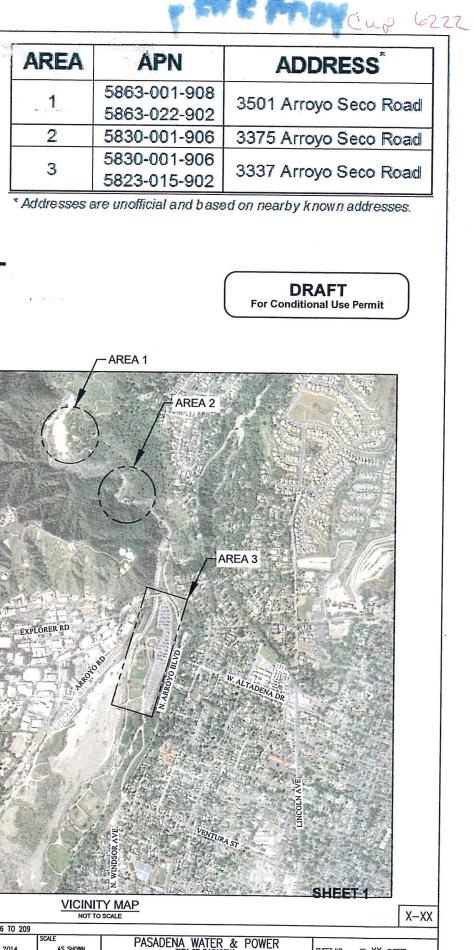
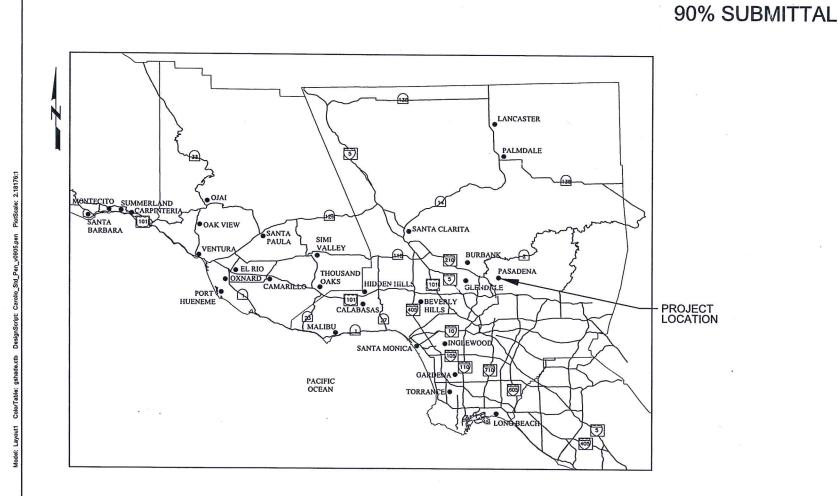
## ATTACHMENT E APPLICATION PLANS FOR CONDITIONAL USE PERMIT #6222

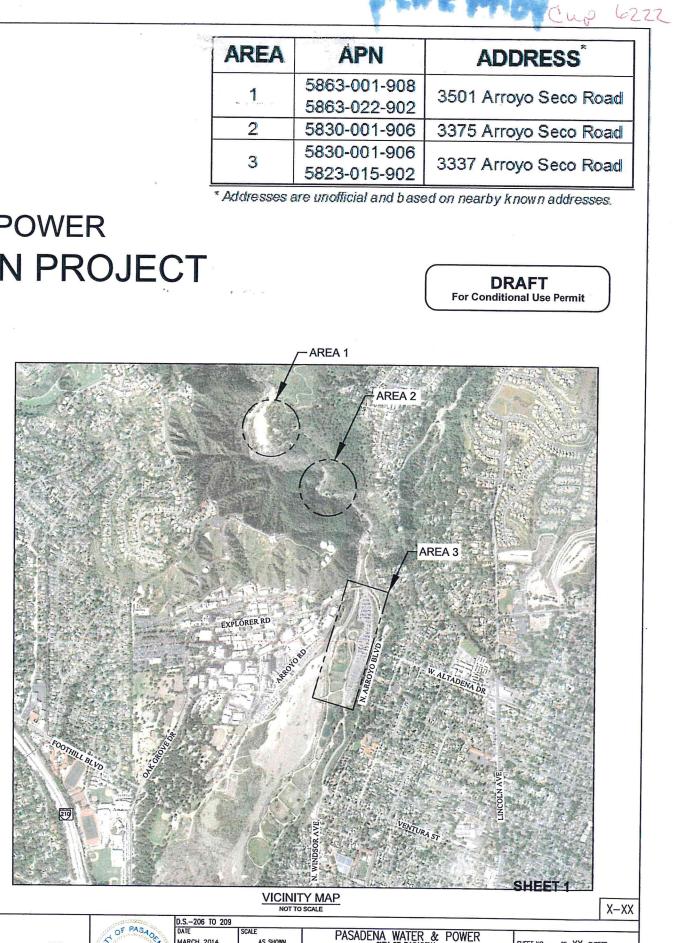
City Council: May 18, 2015 Conditional Use Permit #6222 (3420-4401 Arroyo Seco Road) Attachment E – Application Plans for Conditional Use Permit #6222





## **PASADENA WATER & POWER** ARROYO SECO CANYON PROJECT





## LOCATION MAP

DATE

		REVI	SION		
NO.	DESCRIPTION	DATE	NO.	DESCRIPTION	
	90% DESIGN SUBMITTAL NOT FOR CONSTRUCTION				-
	NOT TOR CONSTRUCTION				
-					



HOWN		VA WATER & POWER CITY OF PASADENA	SHEET NO - OF XX SHEETS				
		SECO CANYON PROJECT CINITY MAP, AND LOCATION MAP	work order 03055	FILE NUMBER 00G-01 (E-1757)			
	APPROVED	APPROVED	REVISION				

THESE PLANS AND SPECIFICATIONS REPRESENT THE DESIGN INTENT OF THE ENGINEER, AS APPROVED BY THE OWNER, CITY OF PASADENA. THE CONTRACTOR IS RESPONSEL FOR ALL ITEMS SHOWN ON THESE PLANS AND SPECIFICATIONS AND SHALL BE RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS AND SHALL BE RESPONSIBLE FOR MAINTAINING A COPY OF THE APPROVED PLANS AND SPECIFICATIONS AND ANY ADDENDA AT THE JOB APPROVED PLANS AND SPECIFICATIONS AND ANY ADDENDA AT THE JOB APPROVED PLANS AND SPECIFICATIONS AND ANY ADDENDA AT THE JOB APPROVED PLANS AND SPECIFICATIONS AND ANY ADDENDA AT THE JOB APPROVED PLANS AND SPECIFICATIONS AND ANY ADDENDA AT THE JOB MOLIDALIER THESE PLANS AND SPECIFICATIONS FOR APPROVAL OF MODIFICATIONS TO THE INTENDED DESIGN.

- 2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING FACILITIES AND UTILITIES SHOWN OR NOT SHOWN WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL FACILITIES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPARED OR RECONSTRUCTED TO THE CITY'S SATISFACTION AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
- PROVIDE A MINIMUM OF 36 INCHES COVER ON ALL PIPELINES UNLESS OTHERWISE NOTED OR DIRECTED. INSTALL ALL PIPING AND PAVEMENT PER CITY OF PASADENA STD. PLAN S-407.
- STRAIGHT ALIGNMENT AND UNIFORM SLOPES OF PIPES SHALL BE MAINTAINED BETWEEN INVERTS SHOWN, EXISTING UTILITIES SHALL BE VERIFED IN ADVANCE OF PIPELINE PLACEMENT, CITY SHALL BE NOTIFIED IMMEDIATELY OF ANY EXISTING UTILITIES AFFECTING PIPELINE ALIGNMENT OR SLOPE.
- 5. ADJUST ALL VALVE BOXES, VAULTS, PULL BOXES AND MANHOLES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR DIRECTED.
- ALL DEBRIS FROM DEMOLITION TO BE DISPOSED OF PROPERLY OFFSITE. ANY SALVAGEABLE MATERIALS OR EQUIPMENTS SHALL BE THE PROPERTY OF THE CITY AND MOVED TO THE CITY OF PASADENA WATER AND POWER MAINTENANCE YARD.
- CONTRACTOR SHALL PROVIDE A STORM WATER POLLUTION CONTROL PLAN (PREPARED BY A CALIFORNIA REGISTERED CIVIL ENGINEER) FOR WORK DURING CONSTRUCTION CONFORMING TO THE NPDES PERMIT REQUIREMENTS.
- THE CONTRACTOR SHALL SHORE, SUPPORT AND PROTECT EXISTING STRUCTURES AND FACILITIES IN ACCORDANCE WITH SECTION 02260.
- WHERE REPLACING EXISTING PAVEMENT, MATCH EXIST GRADE AT EXISTING STRUCTURES AND BUILDINGS, EXCEPT WHERE NOTED
- CONTRACTOR SHALL USE MECHANICAL RESTRAINT SYSTEMS, NOT THRUST BLOCKS, UNLESS NOTED OTHERWISE.
- 11. ALL EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. NOTIFY CITY 24 HOURS PRIOR TO NEED FOR VALVE OPERATION.
- 12. FOR CONNECTIONS TO EXISTING PIPES, CUT EXISTING PIPES SQUARE AND REPAIR ANY DAMAGE TO THE EXISTING LINING AND COATING. 13. ALL PIPE DIAMETERS ARE NOMINAL ID.
- 14. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION SURVEYING AND STAKING, VERIEY ALL EXISTING HORIZONTAL AND VERTICAL INFORMATION PRIOR TO DOING ANY WORK. 15. CONTRACTOR SHALL WORK WITHIN LIMITS OF WORK.
- ALL TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- 17. ALL ABOVE GROUNDPIPING SHALL BE SUPPORTED WHETHER EXPLICITLY NOTED OR NOT, PROVIDE PIPE SUPPORTS EVERY 2 FT UNLESS EXPLICITLY NOTED OTHERWISE ON THE PLANS.
- 18. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS OPERATIONS, WHETHER UR NUT SUCH FACILITIES ARE SHOWN ON THESE PLANS.
- 19. THE CONTRACTOR'S ATTENTION IS EXPRESSLY DIRECTED TO ALL THE REQUIREMENTS AND PROVISIONS OF THE STATE OF CALIFORNIA SAFETY REGULATIONS. CONFORMANCE SHALL BE STRICTLY ENFORCED DURING THE ENTIRE LIFE OF THE CONTRACT AND/OR PROJECT. AN EXCAVATION PERMIT WILL BE REQUIRED FOR TRENCHES IN EXCESS OF 5.0 FEET IN DEPTH FROM CAL-OSHA.
- 20. THE CONTRACTOR SHALL DISPOSE OF ALL SURPLUS EXCAVATION AND DEMOLITION DEBRIS CONFORMING TO LOCAL CODES AND REGULATION.
- 21. THE CONTRACTOR SHALL REPLACE IN KIND, TO THE SATISFACTION OF THE CITY, ANY PAVING, OR OTHER IMPROVEMENTS CUT, REMOVED OR DAMAGED IN CONJUNCTION WITH THIS PROJECT.
- 22. PIPE DELIVERED TO THE SITE SHALL BE PROTECTED BY THE CONTRACTOR FROM DUST OR CONTAMINATION PRIOR TO PLACING IN TRENCH, DURING INSTALLATION AND TESTING, PIPE IS TO BE STORED TO PREVENT DAMAGE IN ACCORDANCE WITH MANUFACTURING RECOMMENDATIONS AND PROCEDURES. RECEIVING, STORAGE, AND HANDLING OF ALL POTABLE WATER PIPE AND APPURTENANCES SHALL BE IN ACCORDANCE WITH AWWA STANDARDS AND PROCEDURES.
- 23. THE CONTRACTOR SHALL ENSURE THAT ALL OPENINGS INTO ALL PIPELINES ARE PROTECTED AND AT THE END OF EACH WORK DAY SECURELY PLUGGED AND STOPPED SO THAT NO ANIMAL, FOWL OR RODENT CAN ENTER THE PIPELINE.
- 24. NO PIPELINE SHALL BE INSTALLED ON FILL MATERIAL WITHOUT FIRST MEETING IN-PLACE DENSITY TESTS REQUIRED.
- 25. ALL PERMITS REQUIRED BY LAW SHALL BE ACQUIRED BY CONTRACTOR BEFORE COMMENCING WORK. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- RESPONSIBILITY OF THE CONTRACTOR. 26. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN AND AROUND THE AREAS OF NEW CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT POTHOLE LOCATION DRAWINGS TO THE CITY FOR REVIEW PRIOR TO SUBMITTAL OF SHOP DRAWINGS TO THE CITY FOR REVIEW PRIOR TO SUBMITTAL OF SHOP DRAWINGS TO THE CITY FOR REVIEW PRIOR TO SUBMITTAL OF SHOP SHALL NOT RELIEVE CONTRACTOR OF ITS DUTY AND RESPONSIBILITY FOR REPAIRING DAMAGE TO UTILITIES FROM CONTRACTOR'S WORK OR MAKING FIELD ADJUSTMENTS TO PROPOSED PIELINE ALIGNMENTS AND CONNECTIONS PENDING WRITTEN APPROVAL BY THE CITY.
- 27. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF THE PRESENCE AND LOCATION OF ALL EXISTING SURFACE FEATURES, WHETHER SHOWN OR NOT HEREIN.
- 28. PRIOR TO SUBMITTAL OF PIPE SHOP DRAWINGS, THE CONTRACTOR SHALL FIELD POTHOLE TO VERIFY THE INVERT ELEVATION, OUTSIDE DIAMETER, LOCATION AND MATERIAL OF ALL EXISTING PIPELINES TO WHICH NEW PIPELINES WILL BE CONNECTED, AND SUBMIT THE INFORMATION WITH THE PIPE SUBMITTAL.

## GENERAL NOTES

- 29. PROVIDE CONCRETE ENCASEMENT FOR ALL PIPING BENEATH STRUCTURES, PADS, VAULTS, AND ANY OTHER FACILITIES PER TYPICAL DETAIL PO40.
- DE FAL PARD. 30. ALL BUILDING COORDINATES ARE TO OUTSIDE CORNER OF COLUMN OR BUILDING WALL, UNLESS OTHERWISE INDICATED. 31. SMALL YARD PIPING (10 INCHES AND LESS INSIDE DIAMETER) IS SHOWN AS A CENTERLINE ON THE FLANE TO SCALE BUT IS NOT DIMENSIONED. THE CONTENT OF THE FLANE TO SCALE BUT IS NOT DIMENSIONED. THE CONTENT OF THE FLANE TO SCALE BUT IS NOT DIMENSIONED. THE AND GRADE WITH MINIMUM FLO INSTALL THE SMALL YARD PIPING ON LINE AND GRADE WITH MINIMUM FLO INSTALL THE SMALL YARD PIPING ON LINE AND BETWEEN PIPES SHALL BE REVIED AS FOLLOWS: GRAVITY LINES HAVE PRIORITY. PRESSURE PIPELINES SHALL BE ROUTED UNDER OF OVER GRAVITY LINES AS NECESSARY WITH SETBACKS AND INSTALLATION PER COPH STANDARDS AND GUIDELINES.
- 32. PRIOR TO PAVING, ALL UNDERGROUND FACILITIES INCLUDING, BUT NOT LIMITED TO SEWER, WATER, TELEPHONE, CABLE, POWER, INSTRUMENTATION, AND GAS SHALL BE IN PLACE AND TESTED, 33. OVER EXCAVATE 5 FT (MIN) HORIZONTALLY FROM FOUNDATION FOR ALL NEW STRUCTURES. OVER EXCAVATE 3 FT (MIN) VERTICALLY BENEATH FOUNDATION FOR ALL NEW STRUCTURES.
- 34. PROVIDE CONCRETE EQUIPMENT BASE PAD UNDER ALL EQUIPMENT. REFER TO STRUCTURAL TYPICAL DETAILS.
- 35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING GROUNDWATER ENCOUNTERED AND SECURING APPROPRIATE DISCHARGE PERMITS. CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO ENGINEER FOR APPROVAL. DEWATERING SHALL BE IN ACCORDANCE WITH SECTION 02240.
- AT THE CONTRACTOR SHALL NOT SHUT OFF ANY WATER OR ELECTRICAL SERVICE AT THE CURR AT ANY TIME. SHOULD THE CONTRACTOR REQUIRE THE WATER OR ELECTRICAL SERVICE TO BE SHUT OFF TO THE PRIVATE PROPERTY. ARRANGEMENTS SHALL BE MADE SOLELY BY THE CONTRACTOR WITH THE PROPERTY OWNER AND THE CONTRACTOR SHALL PROVIDE THE PROPERTY OWNER WITH AT LEAST 48 HOURS PRIOR NOTCE.
- USE CURRENT REVISIONS AND VERSIONS FOR ALL REFERENCED APWA STANDARD PLANS.
- STANDARD PLANS. 38. IF THE CONTRACTOR PROPOSES TO TRIM TREES OR SHRUBS THAT FACILITATE HIS CONSTRUCTION ACCESS, SUCH PROPOSALS SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND WRITTEN APPROVAL TWO WEEKS IN ADVANCE OF THE WORK, TRIMMING WORK SHALL BE DESIGNED AND SUPERVISED BY A LICENSED ARBORIST. THE CONTRACTOR SHALL ADTIFY AND RECEIVE WRITTEN APPROVAL PRIOR TO REMOVING ANY TREES WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING TREES OR SHRUBS AND SHALL REPLACE ANY DAMAGED LANDSCAPE IN ACCORDANCE WITH CITY OF PASADENA REQUIREMENTS.
- DAMAGED LANDSCAPE IN ACCORDANCE WITH CITY OF PASADENA REQUIRE 39. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY. REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OR THE ENGINEER.
- 40. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK SITE FOR THE DURATION OF THE CONTRACT, 41. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND APPROVAL OF TRAFFIC CONTROL BY CITY OF PASADENA TRANSPORTATION DEPARTMENT.
- 42. A COPY OF ALL PERMITS MUST BE KEPT ON-SITE DURING ALL PERIODS OF OPERATION
- 43. THE FOLLOWING NOTES APPLY TO THE STRUCTURAL AND/OR GRADING PERMITS:
- A. CONTRACTOR MUST SUBMIT FINAL EXCAVATION DETAILS OF AREA AND CROSS SECTION OF EXCAVATION INCLUDING CALCULATED AMOUNTS OF CUT, FILL, AND EXPORT IN CUBIC YARDS FOR APPROVAL BY CITY OF PASADENA, DEPARTMENT OF BUILDING AND SAFETY.
- B. CONTRACTOR MUST FULFILL ANY OTHER CONDITIONS THAT ARE REQUIRED FOR PERMIT APPROVAL BY THE CITY OF PASADENA. 44. FURNISH AND INSTALL TRACER WIRE AND WARNING TAPE FOR ALL BURIED PIPE.
- 45. CONTRACTOR SHALL COORDINATE WITH CITY OF PASADENA WATER AND POWER DURING THE DEMOLITION PHASE OF THIS PROJECT AND SALVAGE ALL MATERIALS AND EQUIPMENT AS REQUIRED. SALVAGED EQUIPMENT WILL BE DELIVERED TO THE OWNERS SPECIFIED LOCATION.
- 46. PROVIDE A MINIMUM OF 10-FEET HORIZONTAL SEPARATION BETWEEN POTABLE AND NON-POTABLE PIPELINES IN ACCORDANCE WITH CDPH REQUIREMENTS.
- 47. PRIOR TO BACK FILLING PIPE TRENCHES, CONTRACTOR SHALL FIELD SURVEY AND PROVIDE AS BUILT COORDINATES FOR ALL NEW STRUCTURES, PIPELINES, AND APPURTENANCES.
- ALL PAVEMENT REPLACEMENT SHALL BE DONE IN ACCORDANCE WITH CITY OF PASADENA PUBLIC WORKS DEPARTMENT STANDARDS. REFER TO CITY OF PASADENA STD. PLANS S-415, S-416, AND S-417.
- 49. CONTRACTOR SHALL BE RESPONSIBLE TO POT HOLE AND FIELD VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES REMAINING IN SERVICE THAT WILL BE CROSSED, OR WITHIN 4-FEET HORIZONTALLY, OF THE PROPOSED PIPELINES
- 50. CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS FOR PEDESTRIANS AND TRAFFIC THROUGH AREAS 2 AND 3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL DELINEATION'S, BARRICADES, TEMPORARY SIGNAGE, FLAGGERS, ETC, AS REQUIRED IN ACCORDANCE WITH CITY AND MUTCD STANDARDS.
- 51. CONTRACTOR IS REQUIRED TO OBTAIN ALL PERMITS WITH THE CITY, COUNTY, AND STATE PRIOR TO STARTING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO DEMOLITION, GRADING, PAVING, BUILDING, ELECTRICAL, AND MECHANICAL
- DEMOLITION, GRADING, PAVING, BUILDING, ELECTRICAL, AND MECHANICAL. 52. THE CONTRACTOR MUST RECEIVE APPROVAL FROM THE CITY OF PASADENA ARBORIST PRIOR TO TRIMMING ANY TREES WITHIN THE CONSTRUCTION AREA. CONTRACTOR SHALL ALLOW 3 TO 4 WEEKS FOR CITY APPROVAL. ALL WORK MUST BE IN ACCORDANCE WITH THE TREE PROTECTION PLAN APPROVED BY THE CITY FORESTRY ADVISORY COMMITTEE. ALL EXCAVATION WITHIN TREE DRIP LINES MUST BE DONE BY HAND. 65.
- 53. IT IS ANTICIPATED THAT A SIGNIFICANT AMOUNT OF LARGE ROCKS "BOULDERS" MAY BE ENCOUNTERED DURING THE EXCAVATION AND CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL MAKE SPECIAL PROVISIONS REUSING, STOCK PILING, OR DISPOSING AT AN OFF-SITE LOCATION.
- 54. SOME OF THE HILLSIDE SLOPES WITHIN THE PROJECT AREA ARE PRONE TO ROCK SLIDES, CONTRACTOR SHALL TAKE CAUTION AND PROVIDE SPECIAL PROTECTION WHEN WORKING IN THESE AREAS.
- THERE ARE SPECIAL PROVISIONS AND WORK EXERTICTIONS TO PROTECT NESTING BIRD HABITATS WITHIN THE PROJECT AREA. REFER TO TECHNICAL SPECIFICATIONS SECTION 01140 FOR ADDITIONAL REQUIREMENTS.
- 56. CONTRACTOR SHALL PROVIDE BRIDGE PROTECTION AND TEMPORARY ACCESS PLAN FOR ALL BRIDGES WHICH MAY BE IMPACTED BY CONSTRUCTION EQUIPMENT.
- CONTRACTOR MAY REUSE ALL COBBLE AND ROCK BOULDERS GREATER THAN 18" OD FOR RIP RAP IF APPROVED BY ENGINEER.
- 58. THE PROPOSED IMPROVEMENTS SHOWN ON THESE DRAWINGS ARE SUPERIMPOSED ON A BASE MAP. THIS BASE MAP IS COMPLED FROM AERIAL AND GROUND SURVEYS, AND OTHER DATA AS MADE AVAILABLE TO THE ENGINEER, WHO SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS OR OTHER ERRORS ON THESE DOCUMENTS. THE COMPOSITE BASE MAP IS PROVIDED AS AN AID ONLY AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS AND INCORPORATING/INTEGRATING ALL CONSTRUCTION AS REQUIRED TO ACCOMMODATE THE SAME. NOME OF THE INCLUDED DRAWINGS DEPICT A BOUNDARY SURVEY ALTHOUGH A PARTIAL ALTA SURVEY WAS PERFORMED ALONG A PORTION OF THE UP ROW. BOUNDARY LINES SHOWN ARE APPROXIMATE AND FOR INFORMATIONAL PURPOSES ONLY. AB ANCHOR BOLT ABC AGGREGATE BASE COL AC ASPHALTIC CONCRETE ADD'L ADDITIONAL ALT ALTERNATE ALUM ALUMINUM APWA AMERICAN PUBLIC WOR (SOUTHERN CALIFORNI AVAR AIR VACUUM AIR RELEA AVE AVENUE 59. IN THE EVENT THAT SUBGRADE OBSTRUCTIONS ARE ENCOUNTERED OR DISCREPANCIES ARE FOUND BETWEEN THE DRAWINGS AND FIELD CONDITIONS, NOTIFY ENGINEER OR CITY OF PASADENA FOR DIRECTIONS. DO NOT PROCEED WITH THE WORK WITHOUT DIRECTION FROM THE ENGINEER. BC BF **BEGINNING OF CURVE** BLIND FLANGE BLDG BUILDING FROM THE ENGINEER.
  60. CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES IN THE PROJECT AREA A MINIMUM OF THREE (3 WORKING DAYS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR MUST INVESTIGATE AND VERIFY THE LOCATION OF ANY EXISTING UTILITES WITHIN THE PROJECT AREA. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY. LOCATE. AND PROTECT ALL UNDERGROUND UTILITIES. ANY UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE CONSIDERED TENTATIVE AND APPROXIMATIONS AND THEREFORE, NO WARRANTY EXPRESSED OR IMPLIED IS MADE AS TO THE COMPANIES ARE THOUGHT TO BE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ON-CALL PROGRAM. THE CONTRACTOR SHALL NOTIFY U.S.A. 72-HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK AT 811 FROM 7:00 AM TO 5:00 PM. MONDAY THROUGH FRIDAY. EXISTING PUBLIC UTILITIES SHALL BE KEPT IN SERVICE AT ALL TIMES. UTILITIES THAT INTERFERE WITH THE WORK TO BE PERFORMED SHALL BE PROTECTED AS REQUIRED BY CITY OF PASADENA AND ALL OTHER AFFECTED ENTITIES. DAMAGE TO UTILITIES SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO CITY TO THE SATISFACTION OF THE ENGINEER AND OWNER. POTHOLING IS REQUIRED. ANY EXCIVATION WORK TO BE PERFORMED ON THE AND AND ALL OTHER AFFECTED ENTITIES. DAMAGE TO UTILITIES SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO CITY TO THE SATISFACTION OF THE ENGINEER AND OWNER. POTHOLING IS REQUIRED. ANY EXCIVATION WORK TO BE PERFORMED ON THE ALL TIMES. B.O.P. **BEGINNING OF PAVEMEN** CA CALIFORNIA CB CDPH CATCH BASIN CALIFORNIA DEPT. OF F CFS CUBIC FEET PER SECON CJ CONSTRUCTION JOINT CL CLR CENTER LINE CLEAR CML&C CEMENT MORTAR LINED CMU CONCRETE MASONRY U CO CI FANOUT COL COLUMN CONC CONCRETE CONT. CONTINUED COR CORNER COUPLING CPLG CY CUBIC YARDS BE DUG BY HAND IN THE PRESENCE OF UTILITY INSPECTOR.
   CITY OF PASADENA WILL PROVIDE A QUALIFIED BIOLOGICAL/ARCHEOLOGICAL MONITOR THAT WILL INITIALLY REVIEW SITE CONSTRUCTION PROTOCOLS WITH ALL CONSTRUCTION CONTRACTOR EMPLOYEES AT A PRE-CONSTRUCTION MEETING THAT WILL BE SPECIFICALLY HELD ON RESOURCE PROTECTION. EACH EMPLOYEES AS IGNED TO THIS PROJECT MUST PARTICIPATE IN THIS PRE-CONSTRUCTION MEETING AND DISCUSSION OF ADJACENT SENSITIVE RESOURCES, AND SIGN A STATEMENT INDICATING THAT THEY HAVE READ AND UNDERSTOOD THE PROTOCOLS AND AGREE TO ADDIEED TO THE SUBJECT WILL RESULT IN THE SUANCE OF A STOP WORK ORDER BY THE ENGINEER OF RESOURCE PROTECTION REQUIRED BY THIS PROJECT WILL RESULT IN THE SUANCE OF A STOP WORK ORDER BY THE ENGINEER OF RESOURCE PROTECTION REQUIRED BY THIS PROJECT WILL RESULT IN THE SUANCE OF A STOP WORK ORDER BY THE ENGINEER OF RESOURCE AND FIELD FOR THE PROVIDE THE DEGREE OF RESOURCE PROTECTION REQUIRED BY THE ENGINEER OR BY THE MONITOR. CITY OF PASSAGENA PROVIDE THE DEGREE OF RESOURCE AS TOP WORK ORDER BY THE ENGINEER OR BY THE COLLTURAL RESOURCES PROVIDENT OF THE DEGREE OF RESOURCE DA STOP WORK ORDER BY THE ENGINEER OR BY THE FILL ON THE OF A STOP WORK ORDER BY THE ENGINEER OR BY THE COLLUTION. ALL WORK ARE DEFINITION THE DESTINGT THE CASE OF PROTOCOL AND FILLD FENCING, AND PROFID ON THIS ATTION TO CASE THE FENCING AND FILL FENCING, AND PRIOR TO INTERATION TO CASE THE STOULD FOR THE DATA REPARS AND MITIGATIONS IMPOSED DUE TO BREACH OF PROTOCOL.
   22. BY ENTERING INTO THIS CONTRACT WITH CITY OF PASADENA THE DEG DEGREE DET DETAIL DI DUCTILE IRON DIA DIP DIAMETER DUCTILE IRON PIPE DOT DEPARTMENT OF TRANS DWLS DOWELS DWG(S) DRAWING(S) Е EAST OR ELECTRICAL FA EACH ECC ECCENTRIC EDB ELECTRICAL DUCT BANK EACH FACE SEPAIRS AND MITIGATIONS IMPOSED DUE TO BREACH OF PROTOCOL.
   BY ENTERING INTO THIS CONTRACT WITH CITY OF PASADENA, THE CONTRACTOR AGREES TO HAVING EXAMINED THE SITE, COMPARING THE SITE CONDITIONS WITH THE DRAWINGS KAMINED THE SITE, COMPARING THE SITE CONDITIONS WITH THE DRAWINGS KAM DSPECIFICATIONS AND HAS CAREFULLY EXAMINED ALL OF THE CONTRACT DOCUMENTS AND IS SATISFIED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, NO ALLOWANCE SHALL BE MADE SUBSEQUENTLY ON BEHALF OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PORTORING THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, NO ALLOWANCE SHALL BE MADE SUBSEQUENTLY ON BEHALF OF THE CONDITIONS UNDER WHICH THE WORK IS TO BEHALF OF THE CONDITIONS UNDER WHICH THE WORK IS TO BEHALF OF THE CONDITIONS UNDER WHICH THE WORK IS TO BEHALF OF THE CONDITIONS UNDER WHICH THE WORK IS TO BEHALF OF THE CONDITIONS UNDER WHICH THE WORK IS AS REQUIRED TO ACCOMPLISH ALL CONSTRUCTION OPERATIONS. RESPONSIBIL FOR CORDINATION WITH SUBCONTRACTOR SHALL BE MPROVEMENTS AGAINST DAMAGE RESULTING ON-SITE AND OFF-SITE IMPROVEMENTS AGAINST DAMAGE RESULTING FROM OPERATIONS. RESPONSIBILITY EXTENDS TO THE CONTRACTOR WORKERS, SUBCONTRACTORS AND OTHERS PROVIDING SERVICES. CONTRACTOR SHALL REPAIR AND/OR REPLACE DAMAGE AT THEIR OWN EXPENSE AND TO THE SATISFACTION OF THE ENGINEER AND CITY OF PASADENA, THE CONTRACTOR SHALL DERON INDEMINEY, AND HOLD CITY OF PASADENA AND THE ENGINEER (ULUSITA ENGINEERING CORPORATION) HARMLESS FROM ANY AND ALL LLABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
   CONTRACTOR SHALL ASSUME SOLE AND COMPLEMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
   CONTRACTOR SHALL ASSUME SOLE AND COMPLEMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. EL OR ELEV ELEVATION ELEC ELECTRICAL EMH ELECTRICAL MANHOLE EOP EDGE OF PAVEMENT EP EDGE OF POND EQUIP EQUIPMENT EVC END VERTICAL CURVE FW EACH WAY EXIST EXISTING EXT EXTERIOF FC FLEXIBLE COUPLING FCA FF FG FH FLANGED COUPLING ADA FINISHED FLOOR FINISHED GRADE FIRE HYDRANT FIN FINISHED FL FLG FLOWLINE FLANGE FPS 63. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, TRAFFIC CONTROL, ACCESS TO AND FROM ADJOINING DRIVEWAYS AND STREETS, AND ANY LANE CLOSURES, TRASH GENERATED BY THIS WORK (CONSTRUCTION DEBRIS, PAPER, BOTTLES, CIGARETTES, ETC) SHALL BE REMOVED ON A DALY BASIS. CONTRACTOR SHALL CONTROL DUST AT ALL TIMES WITH WATER. FEET PER SECOND FPT FEMALE PIPE THREAD FS FT FORGED STEEL FEET FTG FOOTING G/B OR GB GRADE BREAK ALL IMMES WITH WATER. 4. ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS AS SET FORTH BY THE FEDERAL DEPARTMENT OF LABOR AND/OR THE STATE OF CALIFORNIA AND CITY OF PASADENA. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALTRANS MANUAL OF TRAFFIC CONTROL SFOR CONSTRUCTION AND MAINTENANCE OF WORK ZONES. ALL SIGNS SHALL BE APPROPRIATELY CONSTRUCTED WITH REFLECTIVE MATERIAL ON A BACKING OF METAL OR FABRIC (NO WOOD OR PLASTIC ALLOWED) AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PROVIDE PROPER VISIBILITY, PER SECTION 12 OF THE CALTRANS SPECIAL PROVISIONS. THE CONTRACTOR SHALL MAINTAIN REASONABLE ACCESS TO ALL ROADWAYS DURING CONSTRUCTION. GR GRADE HDPE HIGH DENSITY POLYETHY HP HIGH POINT HORIZ HORIZONTAL ID INSIDE DIAMETER IE INVERT ELEVATION INV INVERT INSTR INSTRUMENTATION INT IRR INTERIOR IRRIGATION REFER TO THE SPECIFICATIONS THAT ARE A PART OF THESE CONTRACT DOCUMENTS, COMPLY WITH ALL REGULATIONS AND CODES GOVERNING WORK PERFORMED UNDER THIS CONTRACT, REFER TO CALTRANS STANDARD PLANS AND SPECIFICATIONS AS REQUIRED. 65 JS JUNCTION STRUCTURE 66. WRITTEN DIMENSIONS ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS IF THERE IS A CONFLICT. THE CONTRACTOR SHALL CONTACT CITY OF PASADENA TO OBTAIN ADDITIONAL CLARIFICATION. NO DEVIATION OR SUBSTITUTION SHALL BE ALLOWED WITHOUT OBTAINING PRIOR WRITTEN APPROVAL FROM CITY OF PASADENA AND THE ENGINEER. LACFCD LDG LEV
  - LOS ANGELES COUNTY FLOOD CONTROL DISTRI LANDING LEVEL I INFAR FEFT LIP OF GUTTER LAMP HOLE LONG LEG VERTICAL LIGHT POLE OR LIQUID PI LUMP SUM LEFT

LF LG

LH LLV LP

LT

ABBREVIATIONS

			REVI	SION			APPROVED BY:		A CONTRACTOR	D.S206 TO 209	·····
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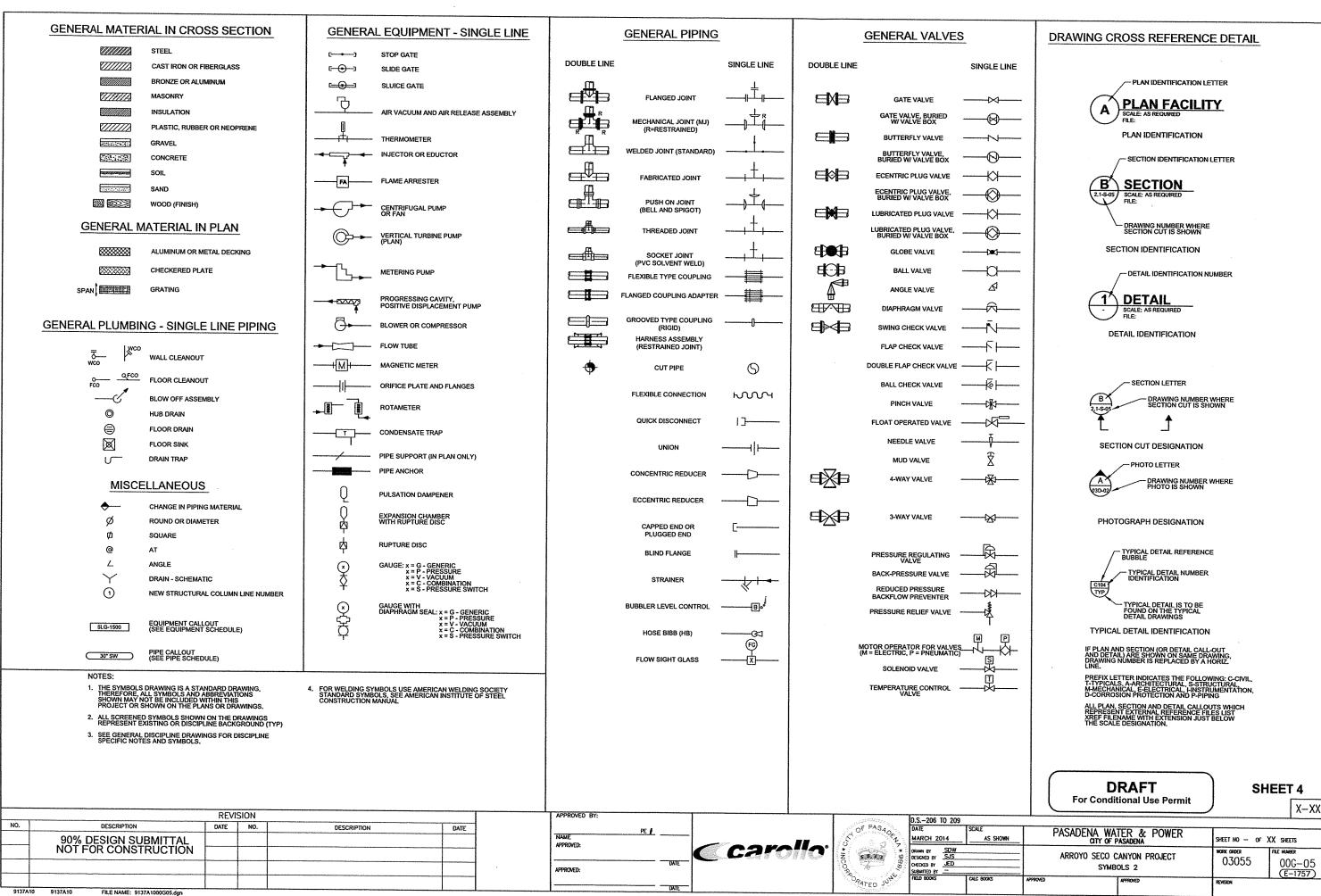
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	ABBF	REVIATIONS		
URSE	MAX	MAXIMUM		
OR ASBESTOS CEMENT	ME MFRS	MATCH EXISTING MANUFACTURER'S		
	MH MI	MANHOLE		
	MIN	MALLEABLE IRON MINIMUM		
RKS ASSOCIATION IA CHAPTER)	MJ MPT	MECHANICAL JOINT MALE PIPE THREAD		
ASE				
	N NB	NORTH NORTH BOUND		
	NG NIC	NATURAL GAS		
		NOT IN CONTRACT		
ENT	OD OPP	OUTSIDE DIAMETER OPPOSITE	ł	
	P	POLE		
PUBLIC HEALTH	PC	POINT OF CURVATU	RE (BEGIN CURVE)	
ND	PE PL	PLAIN END PROPERTY LINE, PL	ATE	
	POC	POINT OF COMMEN	CEMENT	
D AND COATED	PT	POWER POLE POINT OF TANGENC	Y (END CURVE)	
UNIT	PVC PVDF	POLYVINYL CHLORII POLYVINYLIDENE FL		
	PVMT PWP	PAVEMENT		
		PASADENA WATER	AND POWER	
	r RCP	RADIUS REINFORCED CONC	RETE PIPE	
	RD RDCR	ROAD		
	REINF	REDUCER		
	REQMTS RES	REQUIREMENTS		
	RP	RADIUS POINT		
SPORTATION	R/W RT	RIGHT-OF-WAY RIGHT		
	s	SOUTH, SLOPE OR S	EWAGE	
	SB SCE	SOUTH BOUND SOUTHERN CALIFOR		
к	SD SIM	STORM DRAIN		
n	SPEC	SIMILAR SPECIFICATION		
	SQ SST	SQUARE STAINLESS STEEL		
	ST STL	STREET		
	STA	STEEL STATION		
	SY	SQUARE YARDS		
	T	TELEPHONE		
	TB TBC	THRUST BLOCK TOP BACK OF CURB		ł
	TC TBM	TOP OF CURB TEMPORARY BENCH	MADY	ŀ
APTER	TEL TOC	TELEPHONE	WARK	
	TOE	TOP OF CONCRETE TOE OF SLOPE (BOT	TOM)	
	TOG TOS	TOP OF GRATE / GR/	ATING	_
		TOP OF SLOPE (GRA STEEL DECK	DE BREAK), TOP OF	-
	TOW TPOB	TOP OF WALL TRUE POINT OF BEG	INNING	
	TYP	TYPICAL	univily()	
	UE	UNDERGROUND ELE	CTRICAL (DUCT BA	NK)
	UNO	UNLESS NOTED OTH	ERWISE	-
	VC	VICTUAL COUPLING	VERTICAL	
	VERT	CURB VERTICAL		
IYLENE	w	WEST		
	WP WSP	WATER PROOF		
	WSTP	WELDED STEEL PIPE WATERSTOP	:	
	W/	WITH		
		τΔ		
51.515 AP	SURVEY DAT	<u>10</u>		
BASIS OF BEAL CAL	KING: FORNIA STATE I	PLANE COORDINATE S . TINE STATION IN PAS	YSTEM, ZONE 5, NA	D83 USING
OT	GAL TECH REAL	. TINE STATION IN PAS	NUENA. EPOCH DAT	E OF 2011.
ICT BENCHMARK:	UMBER Y 7717	(NAVD 88 DATUM).		
L&BI STEI	N IN E CB 600MM RLING PL MKD (E	(NAVD 88 DATUM), ( (2FT) S/O C.B. @ NE C 3M)	OR VENTURA ST &	
		-	AU ==	
PROPANE	DRAF		SHEET 2	
	onditional l	Jse Permit		X-XX
PASADE	NA WATER	& POWER	CUEFT 110 '	/V are=
	CITY OF PASADE	NA	SHEET NO OF X	X SHEETS
	SECO CANYO		03055	00G-03
ABBREVIA	TONS AND GET			(E-1757)
	APPROVE	v	REVISION	

## CIVIL SYMBOLS

	A	HORIZONTAL AND VERTICAL CONTROL POINT		EXISTING PIPE (SINGLE LINE)							
		NEW STRUCTURE OR FACILITY	28 088 0510 08370	EXISTING PIPE (TRIPLE LINE)							
		EXISTING STRUCTURE OR FACILITY		NEW PIPELINE (TRIPLE LINE)							
		FUTURE STRUCTURE OR FACILITY		NEW PIPELINE (SINGLE LINE)							
		CONTRACTOR STAGING OR EXCAVATION SPOILS AREA		CENTERLINE PROPERTY LINE							
	V//////	DEMOLITION		PROPERTY LINE							
		NEW AC PAVEMENT	(36" BW)	NEW PIPE CALLOUT							
		NEW SIDEWALK, CONCRETE FLATWORK	( EX 36° BW)	EXISTING PIPE CALLOUT							
	5100	INDEX CONTOUR LINE, FINISHED GRADE									
	5101	INTERMEDIATE CONTOUR LINE, FINISHED GRADE									
	1. 1. 1. <u>1. 1. 1.</u> 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	INDEX CONTOUR LINE, EXISTING GROUND									
		INTERMEDIATE CONTOUR LINE, EXISTING GROUND									
	5100.00	FINISHED ELEVATION									
		DRAINAGE FLOW OR PIPE FLOW DIRECTION									
	x	NEW CHAIN LINK FENCE									
		EXISTING FENCE									
<u></u>		NEW PRECAST MASONRY FENCE									
₩ or		CUT OR FILL SLOPE									
	<mark>₩</mark>	NEW FIRE HYDRANT									
	 	NEW CLEANOUT EXISTING MANHOLE									
	$\bigcirc$	NEW MANHOLE									
	•	NEW GUARD POST (BOLLARD)									
	$\bowtie$	NEW WATER VALVE									
		EXISTING VALVE									
		EXISTING POWER POLE									
		EXISTING LIGHT POLE									
	···· <sup>1</sup> ×5····	EXISTING UNDERGROUND VALVE									
		EXISTING HYDRANT	٠								
	\$	EXISTING GUARD POST									
	▼	NEW SIGN									

		CUT OR FILL SLOPE												
	TOE	NEW FIRE HYDRANT												
		NEW CLEANOUT EXISTING MANHOLE											-montager	
	in and													
10/1	0	NEW MANHOLE												
1	•	NEW GUARD POST (BOLLARE	)											
	$\bowtie$	NEW WATER VALVE												
. tarinnen		EXISTING VALVE												
		EXISTING POWER POLE												
200	ξ.	EXISTING LIGHT POLE												
		EXISTING UNDERGROUND VA	LVE											
		EXISTING HYDRANT			÷									
	5.) 1	EXISTING GUARD POST												
	Ŧ	NEW SIGN												
	-													
5														
1														
$\vdash$			REVIS	ION				ſ	APPROVED BY:		Γ	r	In a	
		ESCRIPTION	DATE	NO.	DES	SCRIPTION	DATE			PE (		OF PASA	D.S206 TO 209 DATE	SCALE
	90% DES	IGN SUBMITTAL CONSTRUCTION							NAME APPROVED:		Ccarollo	10 7	MARCH 2014	AS SHOWN
		CONDITION								DATE	CLATUNI	BBB	DRAWN BY <u>SDW</u> DESIGNED BY <u>SJS</u> Diecked by <u>JED</u>	
5									APPROVED:			POPATED JUNE	SUBARTIED BY	CALC BOOKS
L	9137A10 9137A10 F	ILE NAME: 9137A1000G04.dgn	<u> </u>	L			1	I	1	DATE	<u>l</u>	A CONTRACTOR OF A	J	1

		1	DRAFT ditional Use F	Permi	t	
NOTE: ALL SYMBOLS SHOWN MAY NOT BE INCLUDED WITHIN TH PROJECT OR SHOWN ON THE PLANS OR DRAWINGS, ALL SCREENED SYMBOLS SHOWN ON THE DRAWINGS REPRESENT EXISTING OR DISCIPLING AGKGROUND (TY						
					X-XX	
PA	SADENA WA	TER & POWER	1			
	aty of F	SHEET NO - OF )	(X SHEE	TS		
	rroyo seco c symb	WORK ORDER 03055		6-04 -1757)		
PPROVED		APPROVED	REVISION			



	· · · · · · · · · · · · · · · · · · ·	TEST	
ABBREVATION		METHOD	DESIGN
(SEE NOTE 3)	SERVICE	(SEE NOTE 1, 4)	PRESSURE (PSI)
BPS	BOOSTER PUMP STATION		+
BW	BACKWASH WASTE	HH	150
BWS	BACKWASH SUPPLY	HH	150
BY	BYPASS	HH	150
DR	DRAIN - EQUIPMENT	GR	NOTE 2
FM	FORCE MAIN	нн	150
N	INFLUENT	HH	150
OF	OVERFLOW		-
OUT	OUTLET TO TANK	HH	150
OVF	OVERFLOW	HH	150
PD	PUMP DISCHARGE	HH	150
PS	PUMP SUCTION	-	-
PW	POTABLE WATER	HH	150
RW	RAW WATER		-
SA	SAMPLE LINE	нн	50
SD	STORM DRAIN		+
<u>SH</u>	SODIUM HYPOCHLORITE	нн	150
SL	SLUDGE	GR	*******
SS	SANITARY SEWER	HH	
TD	TANK DRAIN	HH	150
то	TANK OVERFLOW	HH	150
TW	TREATED WATER	нн	150
UC	UNDERDRAIN COLLECTION	GR	
uw	UTILITY WATER	HH	150
VAC	VACUUM		
VNT	VENT	HH	150
ww	WELL WATER		250

DIDE OQUEDINE

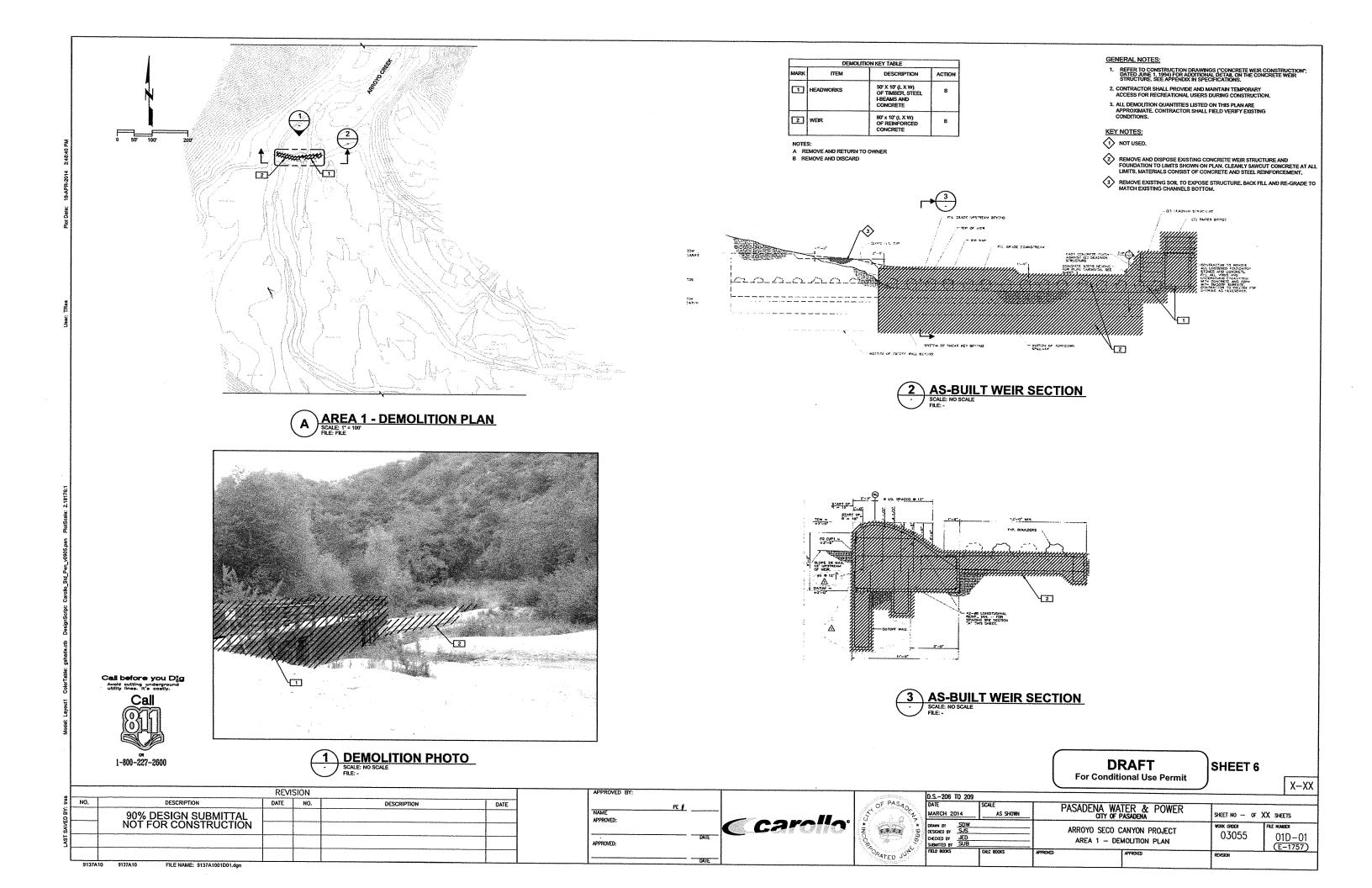
[	VALVES (4-INCHES AND LARGER)									
TAG NUMBER	SIZE (INCHES)	MATERIAL		VALVE ENDS	CLASS					
VAL-100	4	Cl	GV	FLANGED		OPERATOR	LOCATION	REMARKS		
VAL-101		CI	GV		150	BVB	AREA 3			
VAL-102	Q		1	FLANGED	150	BVB	AREA 3			
	<u>-</u>	<u></u> CI	PV	FLANGED	150	BVB	AREA 3			
VAL-104		CI	PV	FLANGED	150	BVB	AREA 3			
VAL-150	12	CI	GV	FLANGED	150	NUT	AREA 3			
VAL-103	24	CI	BFV	FLANGED	150	NUT	AREA 3			
VAL-105	24	CI	BFV	FLANGED	150	NUT	AREA 3			
VAL-106	24	C1	BFV	FLANGED	150	NUT	AREA 3			
VAL-107	24	CI	BFV	FLANGED	150	BVB	AREA 3			
VAL-108	30	CI	BFV	FLANGED	150	BVB	AREA 3			
VAL-109	30	CI	BFV	FLANGED	150	BVB	AREA 3			
NOTES:										
MATERIAL: C	= CAST IRON	PVC = POLYVI	YYL CHLORIDE:	SS = STAINLESS	STEEL					
						ATE VALVE, PV =	PLUGVALVE			
OPERATOR: B	VB = BURIED	VALVE BOX WIT	HNUT: CWO = C	HAIN WHEEL OF	ERATOR F/D =	MOTORIZED OPEN	PATOR HIO - HANDIEVER	OPERATOR; HWO = HAND WHEEL OPERATOR; NUT = OPERATING NUT WITH STEM EXTENSION;		
PNO = PNEUM	ATIC OPERAT	OR			2.011011,20		INTER, TEO - TAND LEVER	SPERATOR; HWO - HAND WHEEL OPERATOR; NOT = OPERATING NUT WITH STEM EXTENSION;		

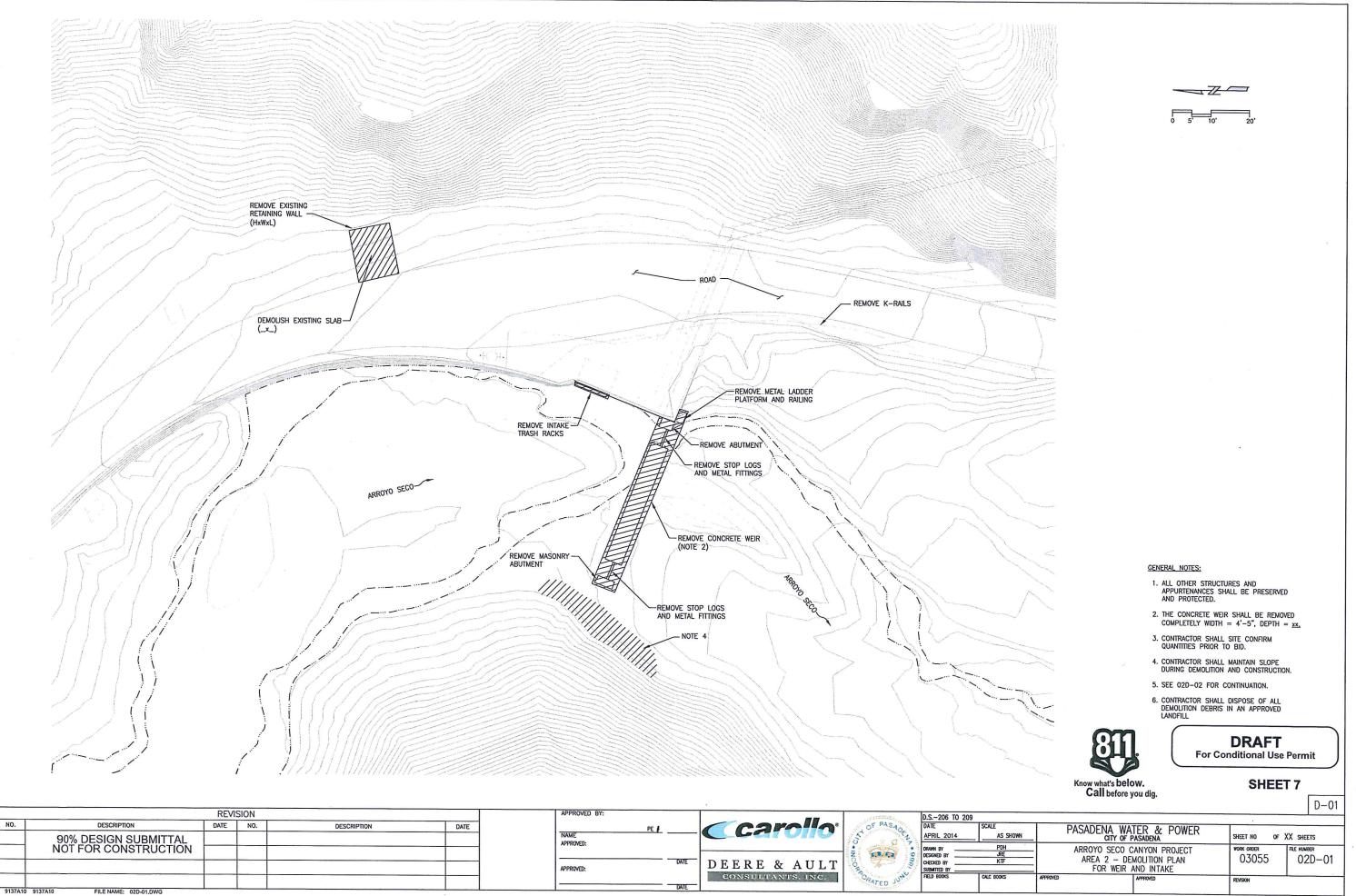
- F	TE I. SEE SPEC SECTION 15956
NC	TE 2: TEST IN ACCORDANCE WITH APPLICABLE PLUMBING CODE
NC	TE 3: PIPE SCHEDULE INCLUDES SOME DESIGNATIONS NOT INCLUDED
	WITHIN THIS PROJECT OR DESIGNATED IN THE PLANS OR SECTIONS
NC	TE 4: PRESSURE TEST AT 1.25 TIMES DESIGN PRESSURE.
L	

	PIPE MATERIAL SCHEDULE								
ABBRV.	MATERIAL	FITTINGS							
21	CONCRETE CYLINDER PIPE								
22	REINFORCED CONCRETE PIPE (ASTM C-76, CLASS IV)	REINFORCED CONCRETE							
21	DUCTILE IRON, AWWA, C150, PC150, CEMENT MORTAR LINED, RESTRAINED	DUCTILE IRON, AWWA C110, CL 150							
21	POLYVINYL CHLORIDE, SCH. 80	PVC, SCH. 80, SOLVENT WELD SOCKET (NOTE 1)							
22	POLYVINYL CHLORIDE, SCH. 40	PVC, SCH. 40, SOLVENT WELD SOCKET							
23	POLYVINYL CHLORIDE, SDR 35	PVC, SDR. 35, GASKETED							
51	STEEL, SCHED. 40, GALVANIZED	THREADED OR FLANGED, GALVANIZED							
52	WELDED STEEL, AWWA C200, MORTAR LINED, EPOXY COATED	STEEL, AWWA C208, MORTAR LINED							
\$3	WELDED STEEL, AWWA C200, MORTAR LINED AND COATED	STEEL, AWWA C208							
5	STAINLESS STEEL, TYPE 316L, SCH. 10 OR HIGHER, FINISHED ACCORDING TO SPEC.	STAINLESS STEEL							
\$6	STEEL, ASTM A106 OR 53, SCH. 80, SEAMLESS, BLACK	THREADED, SOCKET, BUTT-WELD OR FLANGED W/AMMONIA UNIONS							
\$7	STEEL, ASTM A53, SCH. 40, BLACK (NATURAL GAS)	MALLEABLE 150 PSI THRD, 2" SMALLER, GREATER THAN 2" WELD							
58	STEEL, ASTM A106 OR 53, SCH. 40, SEAMLESS, BLACK	STEEL ANSI B16.9 BUTT-WELDED, FORGED STEEL, SOCKET WELD, ANSI B16.11, OR STEEL ANSI B16.5, 150LB FLANGE.							
201	COPPER, SOFT TEMPERED, TYPE K								
	JOHT CA, COLT LEAR EALD, TIFER	COPPER, SOLDER JOINTS							
NOTES:									

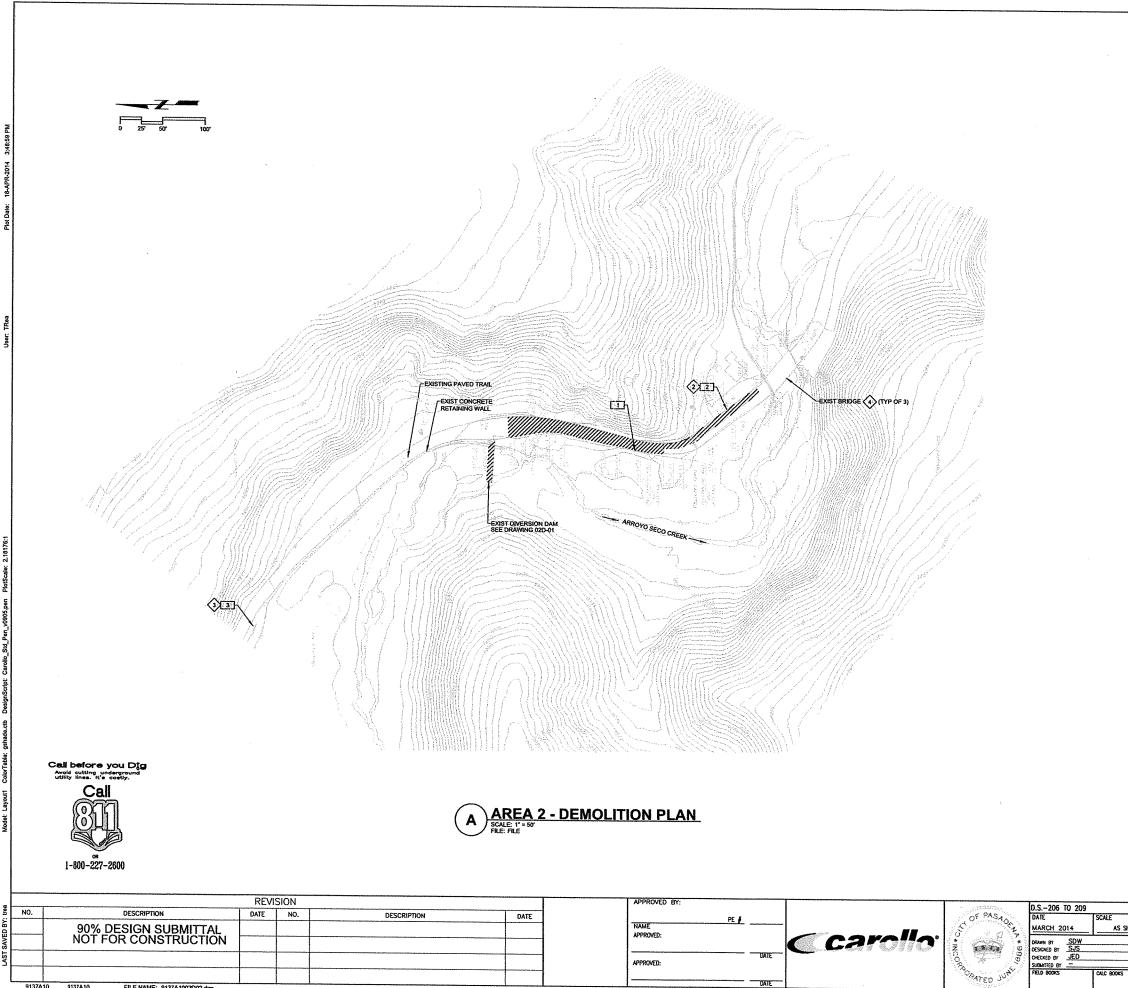
		REVI	SION		T	APPROVED BY:		D.S206 TO 209	
Ŝ NO.	DESCRIPTION	DATE	NO.	DESCRIPTION	DATE	PF I	OF PASAA	DATE	SCALE
à	90% DESIGN SUBMITTAL					NAME	S. A.	MARCH 2014	AS SHOWN
AEI	NOT FOR CONSTRUCTION			······		APPROVED:	± /2 *	DRAMN BY SOW	
5							NCC TARA BO	DESIGNED BY <u>SJS</u> Checked By JED	
3		l				APPROVED:		SUBMITTED BY	
							PATED JUR	FIELD BOOKS	CALC BOOKS
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		AFT	SHEET 5	
	For Conditio	nal Use Permit	)	X-XX
IOWN	PASADENA WA	TER & POWER pasadena	SHEET NO OF )	(X sheets
	ARROYO SECO CANYON PROJECT		WORK ORDER 03055	FILE NUMBER 00G-06 (E-1757)
	APPRIMED	APPROVED	REVISION	





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9137A1

GENERAL NOTES:

- 1. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY ACCESS FOR RECREATIONAL USERS DURING CONSTRUCTION.
- 2. ALL DEMOLITION QUANTITIES LISTED ON THIS PLAN ARE APPROXIMATE, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.

KEY NOTES:

- CLEANLY SAWCUT ROAD (MIN 3 FT WIDE). REFER TO ELEC DWGS FOR EXTENTS OF REMOVAL AND WHERE NEW ELEC DUCTBANK IS LOCATED.
- CLEARLY SAWCUT ROAD, REFER TO DWG 02C-01 FOR EXTENTS OF REMOVAL AND WHERE NEW PAVING IS INSTALLED,
- OF REMOVAL ANU WHERE NEW FAVING IS INJULATED.
   IMITS EXTEND FROM END OF EXISTING RETAINING WALL IN AREA
   TO AREA 1.
   CONTRACTOR SHALL SUBMIT PLANS AND CALCULATIONS FOR
   REVIEW TO PROVIDE TEMPORARY CONSTRUCTION ACCESS
   ACROSS EXISTING BRIDGE BRIDGE CANNOT SUPPORT H20
   LOADS, REFER TO DRAWING 00C-01 FOR LOCATION OF OTHER
   BRIDGES.

	DEMOLITI	ON KEY TABLE	
MARK	ПЕМ	DESCRIPTION	ACTION
IJ	K-RAILS	CONCRETE (QTY = 10, 10 FT EACH)	в
2	AC PAVEMENT	THICKNESS 4* QTY = 42 CY	в
3	CHAIN LINK FENCE	HEIGHT = 5', LENGTH = 400 FT	8

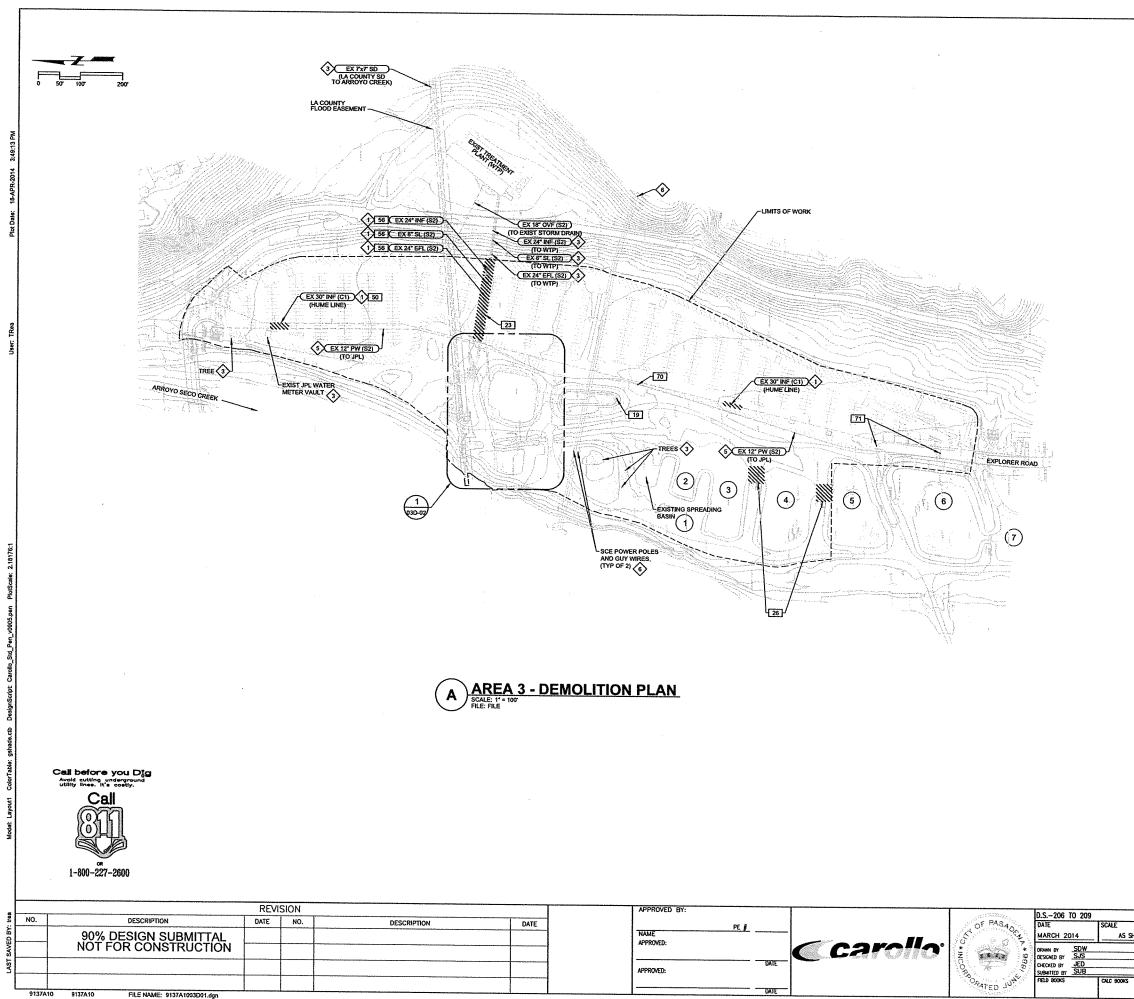
NOTES:

A REMOVE AND RETURN TO OWNER B REMOVE AND DISCARD

······	For Conditio	onal Use Permit	J	X-XX
IOWN	PASADENA WA	TER & POWER	Sheet no -	of XX sheets
	ARROYO SECO (	CANYON PROJECT JTION PLAN (CIVIL)	WORK ORDER 03055	FRE NUMBER 02D-02 (E-1757)
	APPROVED	APPROVED	REVISION	

SHEET 8

DRAFT



- 1. ALL KEY NOTES MAY NOT BE APPLICABLE TO THIS DRAWING.
- 2. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY ACCESS FOR RECREATIONAL USERS DURING CONSTRUCTION.
- 3. ALL DEMOLITION QUANTITIES LISTED ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
- 4. ALL EXISTING CONCRETE HAS REINFORCING STEEL
- 5. IN GENERAL ALL EXISTING PIPES, VAULTS, CONCRETE STRUCTURES AND FENCING WITHIN LIMITS OF WORK SHALL BE REMOVED UNLESS NOTED FOR TO PROTECT.

### KEY NOTES:

- SEE DRAWING 03C-05, 06, 07, AND 08 FOR EXTENT OF PIPE DEMOLITION.
- 2 NOT USED.
- RETAIN AND PROTECT. SEE DRAWING 03C-06 FOR EXTENT OF PIPE DEMOLITION.
- CONTRACTOR SHALL TRENCH TO VERIFY LOCATION OF EXISTING 12" JPL POTABLE LINE, BEFORE DEMOLITION WORK.
- CONTRACTOR SHALL PROTECT EXISTING 12" JPL POTABLE MAIN UNTIL NEW 12" JPL LINE IS INSTALLED, PRESSURE TESTED, DISINFECTED, BACTERIA TESTED, AND PMV PERIFES THAT NEW MAIN IS READY FOE SERVICE, AFTER NEW JPL POTABLE MAIN IS IN SERVICE, CONTRACTOR SHALL REMOVE AND DISCARD EXISTING,
- RETAIN AND PROTECT EXISTING OVERHEAD SCE POWER LINES.
   COORDINATE WITH SCE FOR ALL WORK AROUND AND UNDER
   POWER LINES.

DEMOLITION KEY TABLE				
MARK	ITEM	DESCRIPTION	ACTION	
[19]	DRYING BED OUTLET	30 CY CONCRETE PIPING AND VALVES	8	
20	DRYING BED INLET	30 CY CONCRETE PIPING AND VALVES	8	
[21]	CONCRETE BOX	7' X 7' X 25' (W X H X L)	8	
[22]	ELECTRICAL BUILDING	METER, PANELS, AND SWITCHGEAR	A	
[23]	CONCRETE DRY VAULTS	10'X 10'X 6' (WXLXD) QTY≖2	B A (FLOW METER)	
24	CONCRETE FLUME	60 CY CONCRETE	8	
25	HEADWORKS	TIMBERS AND STEEL SUPPORTS	В	
26	SPREADING BASIN OUTLET	TIMBERS, HANDRAIL, DECK AND CMP	в	
27	GAUGING STATION	MISC STEEL & CMP	в	
50	PIPE AND VALVES	REINFORCED CONCRETE PIPE	8	
51	PIPE AND VALVES	300 LF	в	
52	ANCHOR/THRUST BLOCKS	2 CY CONCRETE	в	
53	PIPE AND VALVES	200 LF	В	
54	PIPE AND VALVES	100 LF	в	
55	PIPE AND VALVES	500 LF	в	
56	PIPE AND VALVES	600 LF	в	
57	PIPE AND VALVES	150 LF	В	
70	CHAIN LINK FENCE	HEIGHT = 6 FT LENGTH = 5,400 LF	В	
[71]	GATE	WIDTH = 12 FT QTY = 2	ß	
72	SIDEWALK	30 FT OF CONC AND HANDRAIL	8	

NOTES:

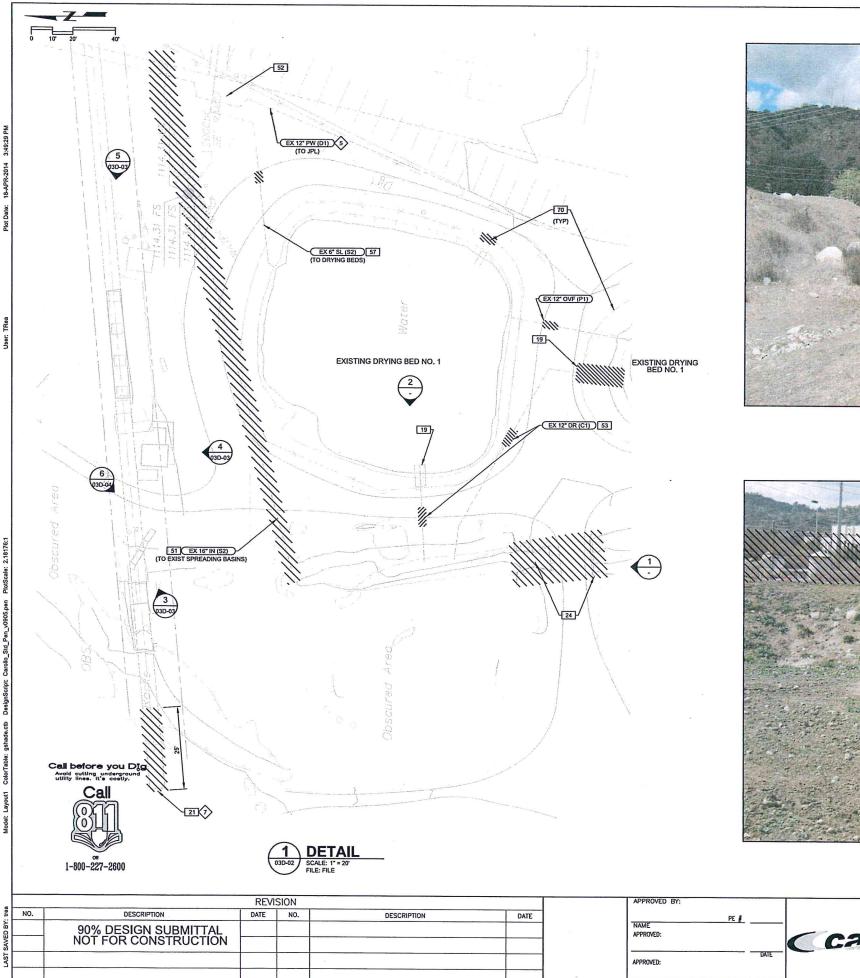
A REMOVE AND RETURN TO OWNER B REMOVE AND DISCARD

DRAFT For Conditional Use Permit



X-XX

HOWN	PASADENA WATER & POWER		SHEET NO - OF	XX SHEETS
	ARROYO SECO CANYON PROJECT AREA 3 - DEMOLITION PLAN		WORK ORDER 03055	FILE MANBER 03D-01 (E-1757)
	APPROVED	APPROVED	REVISION	



9137A10

9137A10

FILE NAME: 9137A1003D02.dgn



1 DEMOLITION PHOTO 1 SCALE: NO SCALE FILE: FILE





	- SCALE: NO FILE: FILE	SCALE			<b>DR</b> For Condition		SHEET IV	X-XX
APPROVED BY:		OF PASADE	D.S206 TO 209 DATE MARCH 2014	SCALE AS SHOWN	PASADENA WA		SHEET NO - OF	X SHEETS
APPROVED: DATE	Ccarollo	CON TRA	DRAWN BY <u>SDW</u> Designed by <u>JED</u> Checked by <u>-</u> Submitted by <u>-</u>		Provinces in a second in the	CANYON PROJECT ON PLAN & PHOTOS	WORK ORDER 03055	FILE NUMBER 03D-02 (E-1757)
DATE		ORATED JUN	FIELD BOOKS	CALC BOOKS	APPROVED	APPROVED	REVISION	

### GENERAL NOTES:

- 1. ALL KEY NOTES MAY NOT BE APPLICABLE TO THIS DRAWIN
- 2. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY ACCESS FOR RECREATIONAL USERS DURING CONSTRUCTION.
- 3. ALL DEMOLITION QUANTITIES LISTED ON THIS PLAN ARE APPROXIMATE, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
- TO PROVIDE CLARITY, NOT ALL AREAS TO BE DEMOLISHED ARE HATCHED IN EVERY VIEW/ PHOTO/ PLAN.

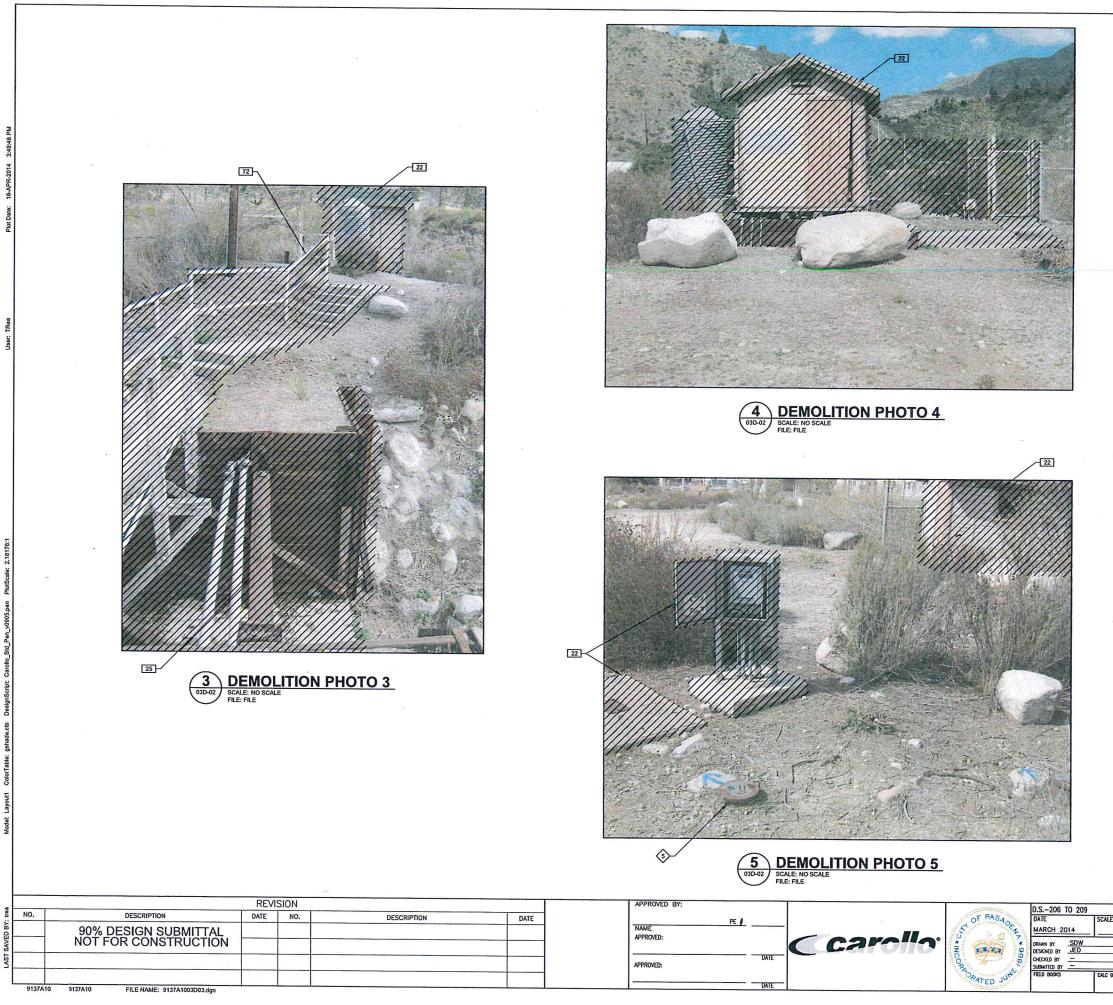
### KEY NOTES:

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- 2 NOT USED.
- RETAIN AND PROTECT. SEE DRAWING 03C-06 FOR EXTENT OF PIPE DEMOLITION.
- CONTRACTOR SHALL TRENCH TO VERIFY LOCATION OF EXISTING 12" JPL POTABLE LINE, BEFORE DEMOLITION WORK.
- CONTRACTOR SHALL PROTECT EXISTING 12" JPL POTABLE MAIN UNTIL NEW 12" JPL LINE IS INSTALLED, PRESSURE TESTED, DISINFECTED, BACTERIA TESTED, AND PWP VERIFIES THAT NEW MAIN IS READY FOE SERVICE. AFTER NEW JPL POTABLE MAIN IS IN SERVICE, CONTRACTOR SHALL REMOVE AND DISCARD EXISTING.
- RETAIN AND PROTECT EXISTING OVERHEAD SCE POWER LINES. COORDINATE WITH SCE FOR ALL WORK AROUND AND UNDER POWER LINES.
- CUT BACK EXISTING REINFORCING STEEL 1 1/2-INCHES AND FILL WITH EPOXY GROUT, ENTIRE CUT FACE SHALL BE FINISHED WITH EPOXY GROUT.

	DEMOLITIC	N KEY TABLE	
MARK	ITEM	DESCRIPTION	ACTION
19	DRYING BED OUTLET	30 CY CONCRETE PIPING AND VALVES	в
20	DRYING BED INLET	30 CY CONCRETE PIPING AND VALVES	в
21	CONCRETE BOX	7' X 7' X 25' (W X H X L)	в
22	ELECTRICAL BUILDING	METER, PANELS, AND SWITCHGEAR	A
23	CONCRETE DRY VAULTS	10' X 10' X 6' (W X L X D) QTY = 2	B A (FLOW METER)
24	CONCRETE FLUME	60 CY CONCRETE	в
25	HEADWORKS	TIMBERS AND STEEL SUPPORTS	в
26	SPREADING BASIN OUTLET	TIMBERS, HANDRAIL, DECK AND CMP	в
27	GAUGING STATION	MISC STEEL & CMP	в
50	PIPE AND VALVES	REINFORCED CONCRETE PIPE	в
51	PIPE AND VALVES	300 LF	в
52	ANCHOR/THRUST BLOCKS	2 CY CONCRETE	в
53	PIPE AND VALVES	200 LF	В
54	PIPE AND VALVES	100 LF	В
55	PIPE AND VALVES	500 LF	в
56	PIPE AND VALVES	600 LF	в
57	PIPE AND VALVES	150 LF	в
70	CHAIN LINK FENCE	HEIGHT = 6 FT LENGTH = 5,400 LF	в
71	GATE	WIDTH = 12 FT QTY = 2	в
72	SIDEWALK	30 FT OF CONC AND HANDRAIL	В

NOTES: A REMOVE AND RETURN TO OWNER B REMOVE AND DISCARD

SHEET 10



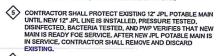
- 1. ALL KEY NOTES MAY NOT BE APPLICABLE TO THIS DRAWING.
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- 4. TO PROVIDE CLARITY, NOT ALL AREAS TO BE DEMOLISHED ARE HATCHED IN EVERY VIEW/ PHOTO/ PLAN.

KEY NOTES:

SEE DRAWING 03C-05, 06, 07, AND 08 FOR EXTENT OF PIPE DEMOLITION.

2 NOT USED.

- RETAIN AND PROTECT. SEE DRAWING 03C-06 FOR EXTENT OF PIPE DEMOLITION.
- CONTRACTOR SHALL TRENCH TO VERIFY LOCATION OF EXISTING 12" JPL POTABLE LINE, BEFORE DEMOLITION WORK.



RETAIN AND PROTECT EXISTING OVERHEAD SCE POWER LINES. COORDINATE WITH SCE FOR ALL WORK AROUND AND UNDER POWER LINES.

CUT BACK EXISTING REINFORCING STEEL 1 1/2-INCHES AND FILL WITH EPOXY GROUT, ENTIRE CUT FACE SHALL BE FINISHED WITH EPOXY GROUT,

	DEMOLITIC	N KEY TABLE			
MARK	ITEM DESCRIPTION ACTION				
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20	DRYING BED INLET	30 CY CONCRETE PIPING AND VALVES	в		
21	CONCRETE BOX	7' X 7' X 25' (W X H X L)	в		
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23	CONCRETE DRY VAULTS	10' X 10' X 6' (W X L X D) QTY = 2	B A (FLOW METER)		
24	CONCRETE FLUME	60 CY CONCRETE	в		
25	HEADWORK	TIMBERS AND STEEL SUPPORTS	в		
50	30" INF LINE	REINFORCED CONCRETE PIPE	в		
51	PIPE AND VALVES	700 LF OF PIPE AND VALVES	в		
52	ANCHOR/THRUST BLOCKS	2 CY CONCRETE	в		
53	PIPE	200 LF	В		
54	PIPE AND VALVES	100 LF	В		
70	CHAIN LINK FENCE	HEIGHT = 6 FT LENGTH = 5,400 LF	в		
71	GATE	WIDTH = 12 FT QTY = 2	В		
72	SIDEWALK	30 FT OF CONC AND HANDRAIL	в		

SHEET 11

NOTES: A REMOVE AND RETURN TO OWNER B REMOVE AND DISCARD

				X-XX
as shown	PASAE	ENA WATER & POWER	SHEET NO - OF	XX SHEETS
	ARE/	YO SECO CANYON PROJECT 3 - DEMOLITION PHOTOS	WORK ORDER 03055	FILE NUMBER 03D-03 (E-1757)
OOKS	APPROVED	APPROVED	REVISION	

DRAFT

For Conditional Use Permit



1. ALL KEY NOTES MAY NOT BE APPLICABLE TO THIS DRAWING.

- 2. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY ACCESS FOR RECREATIONAL USERS DURING CONSTRUCTION.
- ALL DEMOLITION QUANTITIES LISTED ON THIS PLAN ARE APPROXIMATE, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
- 4. TO PROVIDE CLARITY, NOT ALL AREAS TO BE DEMOLISHED ARE HATCHED IN EVERY VIEW/ PHOTO/ PLAN.

### KEY NOTES:

SEE DRAWING 03C-05, 06, 07, AND 08 FOR EXTENT OF PIPE DEMOLITION.

2 NOT USED.

- RETAIN AND PROTECT. SEE DRAWING 03C-06 FOR EXTENT OF PIPE DEMOLITION.
- CONTRACTOR SHALL TRENCH TO VERIFY LOCATION OF EXISTING 12" JPL POTABLE LINE, BEFORE DEMOLITION WORK.
- CONTRACTOR SHALL PROTECT EXISTING 12' JPL POTABLE MAIN UNTIL NEW 12' JPL LINE IS INSTALLED, PRESSURE TESTED, DISINFECTED, BACTERIA TESTED, AND PWP VERIFIES THAT NEW MAIN IS READY FOE SERVICE. AFTER NEW JPL POTABLE MAIN IS IN SERVICE, CONTRACTOR SHALL REMOVE AND DISCARD EXISTING.

RETAIN AND PROTECT EXISTING OVERHEAD SCE POWER LINES. COORDINATE WITH SCE FOR ALL WORK AROUND AND UNDER POWER LINES.

CUT BACK EXISTING REINFORCING STEEL 1 1/2-INCHES AND FILL WITH EPOXY GROUT. ENTIRE CUT FACE SHALL BE FINISHED WITH EPOXY GROUT.

	DEMOLITIC	ON KEY TABLE	
MARK	ITEM	DESCRIPTION	ACTION
19	DRYING BED OUTLET	30 CY CONCRETE PIPING AND VALVES	в
20	DRYING BED INLET	30 CY CONCRETE PIPING AND VALVES	В
21	CONCRETE BOX	7' X 7' X 25' (W X H X L)	В
22	ELECTRICAL BUILDING	METER, PANELS, AND SWITCHGEAR	A
23	CONCRETE DRY VAULTS	10' X 10' X 6' (W X L X D) QTY = 2	B A (FLOW METER)
24	CONCRETE FLUME	60 CY CONCRETE	B
25	HEADWORKS	TIMBERS AND STEEL SUPPORTS	В
26	SPREADING BASIN OUTLET	TIMBERS, HANDRAIL, DECK AND CMP	в
27	GAUGING STATION	MISC STEEL & CMP	в
50	PIPE AND VALVES	REINFORCED CONCRETE PIPE	в
51	PIPE AND VALVES	300 LF	в
52	ANCHOR/THRUST BLOCKS	2 CY CONCRETE	В
53	PIPE AND VALVES	200 LF	В
54	PIPE AND VALVES	100 LF	в
55	PIPE AND VALVES	500 LF	В
56	PIPE AND VALVES	600 LF	В
57	PIPE AND VALVES	150 LF	В
70	CHAIN LINK FENCE	HEIGHT = 6 FT LENGTH = 5,400 LF	В
71	GATE	WIDTH = 12 FT QTY = 2	В
72	SIDEWALK	30 FT OF CONC AND HANDRAIL	В

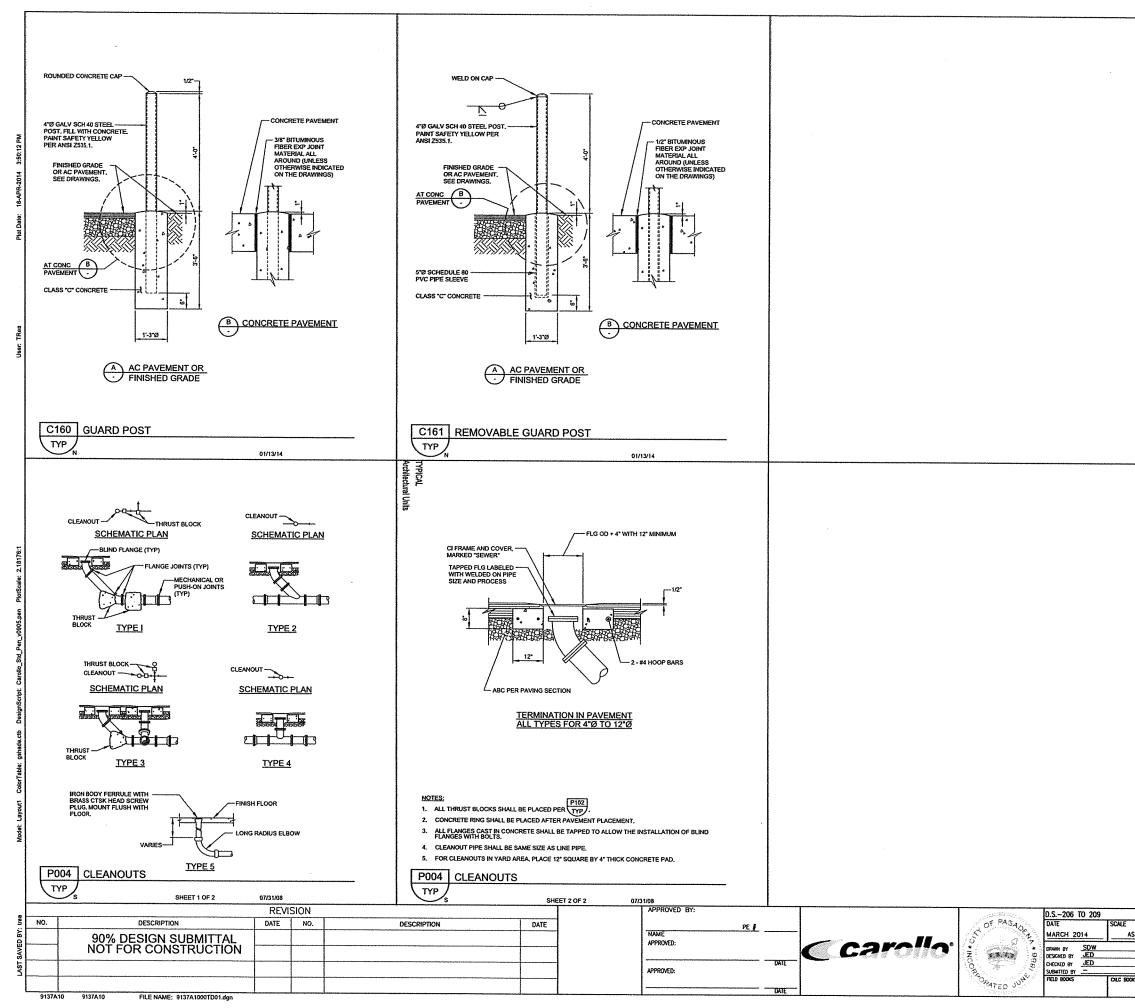
NOTES: A REMOVE AND RETURN TO OWNER B REMOVE AND DISCARD

SHEET 12

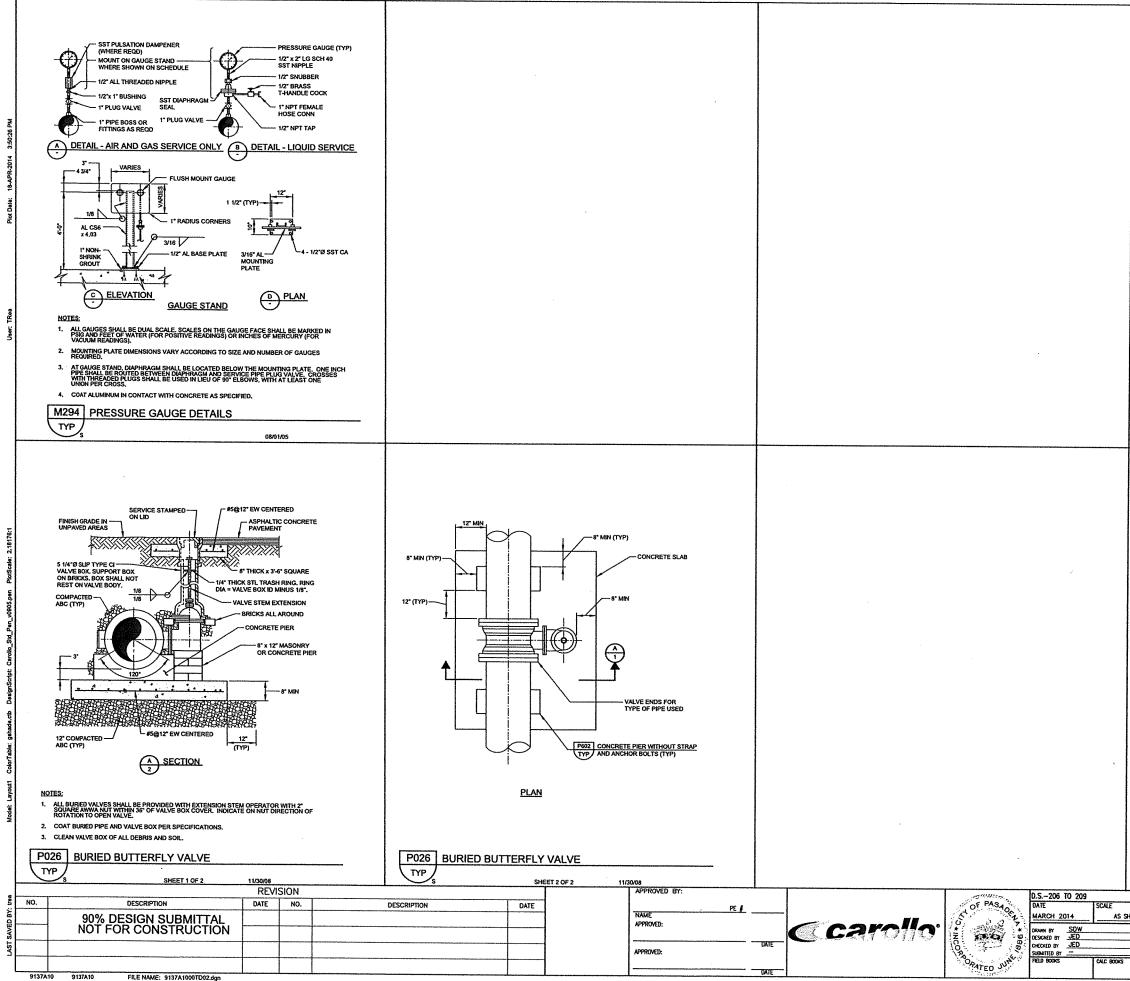
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## X-XX

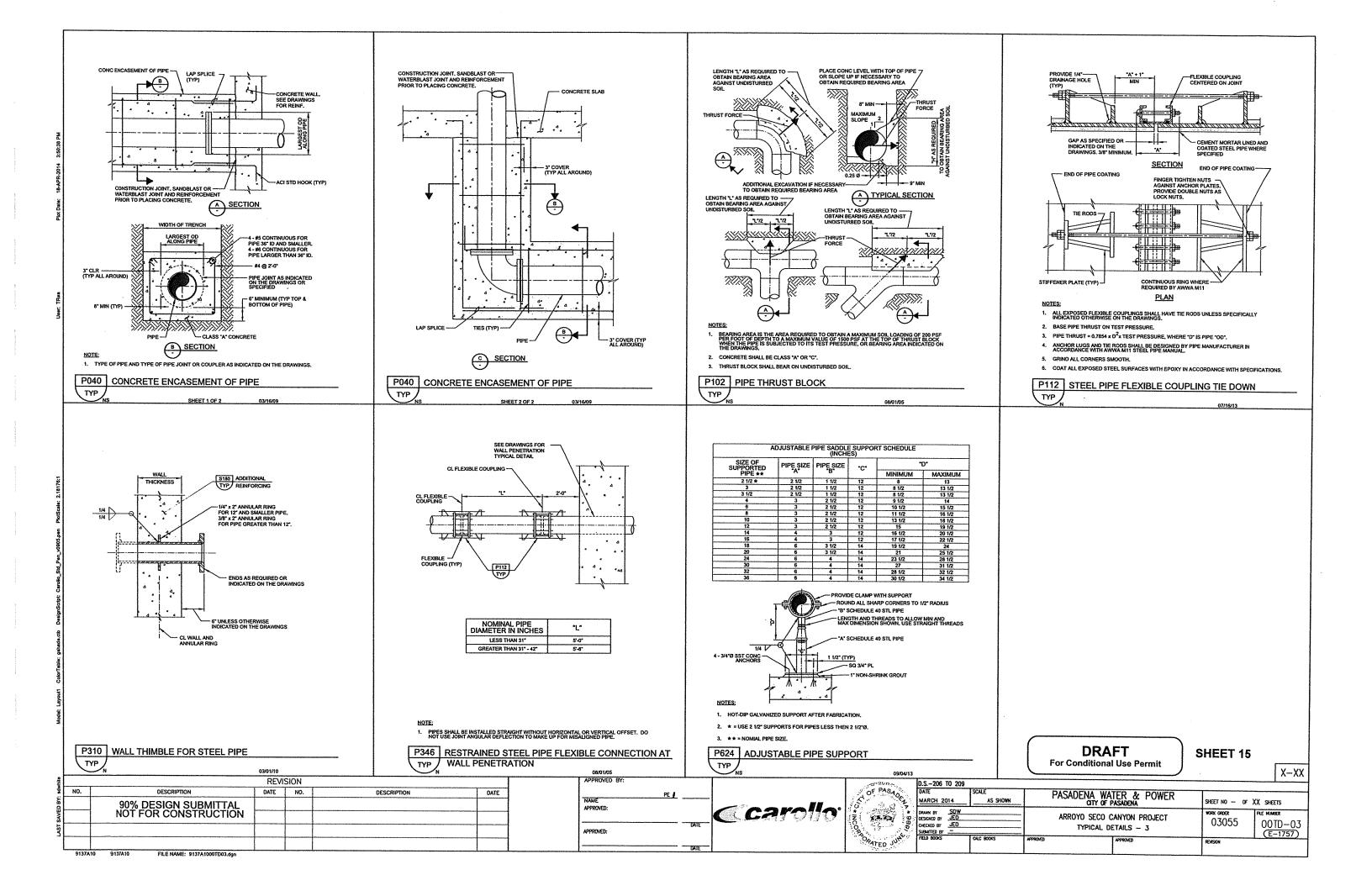
PASADENA WATER & POWER sheet no - of XX sheets WORK ORDER FILE NUMBER ARROYO SECO CANYON PROJECT 03055 03D-04 (E-1757) AREA 3 - DEMOLITION PHOTOS PROVED REVISION

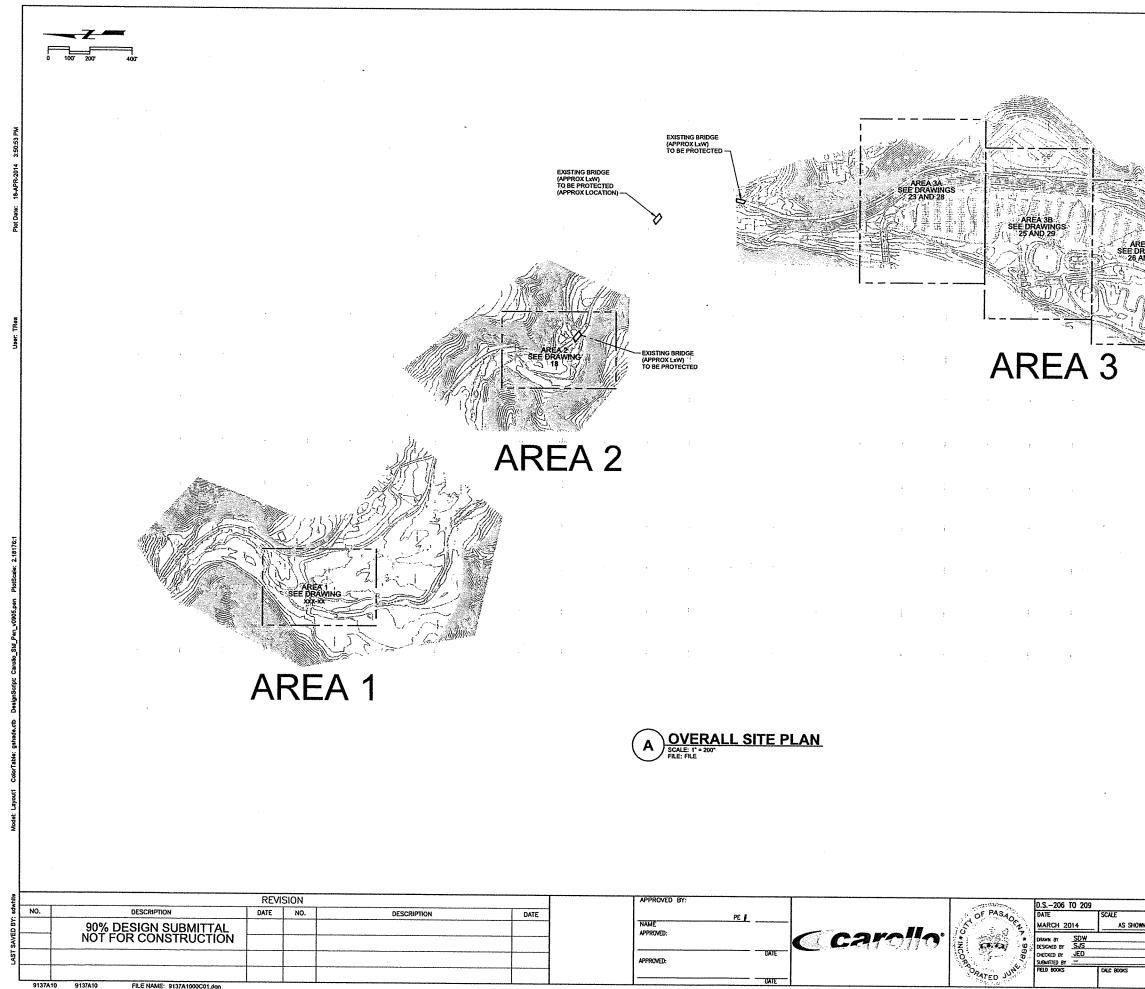


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1	For Conditional Use Permit	SHEET 13	
			X-XX
-+	•		
SHOWN	PASADENA WATER & POWER CITY OF PASADENA	SHEET NO - OF >	(X SHEFTS
		WORK ORDER	FILE NUMBER
	ARROYO SECO CANYON PROJECT	03055	00TD-01
s	TYPICAL DETAILS - 1	REMISION	(E-1757)

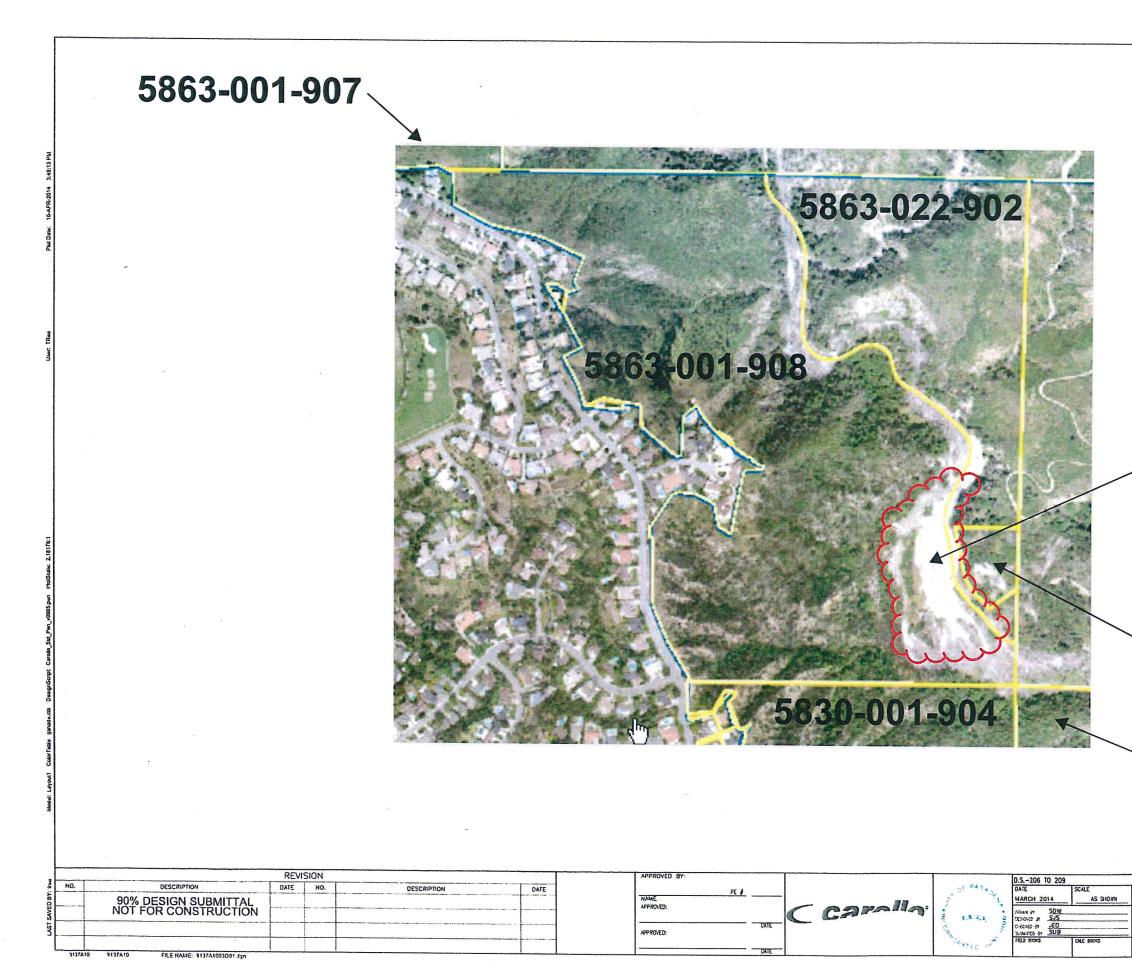


DRAFT For Conditional Use Permit	
PASADENA WATER & POWER	X-XX
ARROYO SECO CANYON PROJECT WORK ORDER TYPICAL DETAILS - 2 03055	of XX sheets Pile number 00TD-02
APPROVED APPROVED REVISION	(E-1757)





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		For Co	DRA	<b>\FT</b> al Use Pe	rmit	) s	HEET	16	X-	XX	
N	APPRONED	ARROY	0 SECO C/ OVERALL S	ER & P asadena anyon pro site plan approved			SHEET NO WORK ORDER 03055 REVISION	คเ	SHEETS E NUMBER 00C-0 (E-1757	)1	



# AREA 1: PROJECT SITE

# 5863-022-900

# 5830-001-906

	F	DRAFT For Conditional Use Permit	SH	IEET 17
	- PASADE	NA WATER & POWER CITY OF PASADENA	SHEET NO - OF	XX SHEETS
ARROYO SECO CANYON PROJECT PROPERTY LINE (AREA 1 PROJECT SITE)			03055	DE NUMER 00C-02
	ATTIONED	TradeD	PEVSCH	

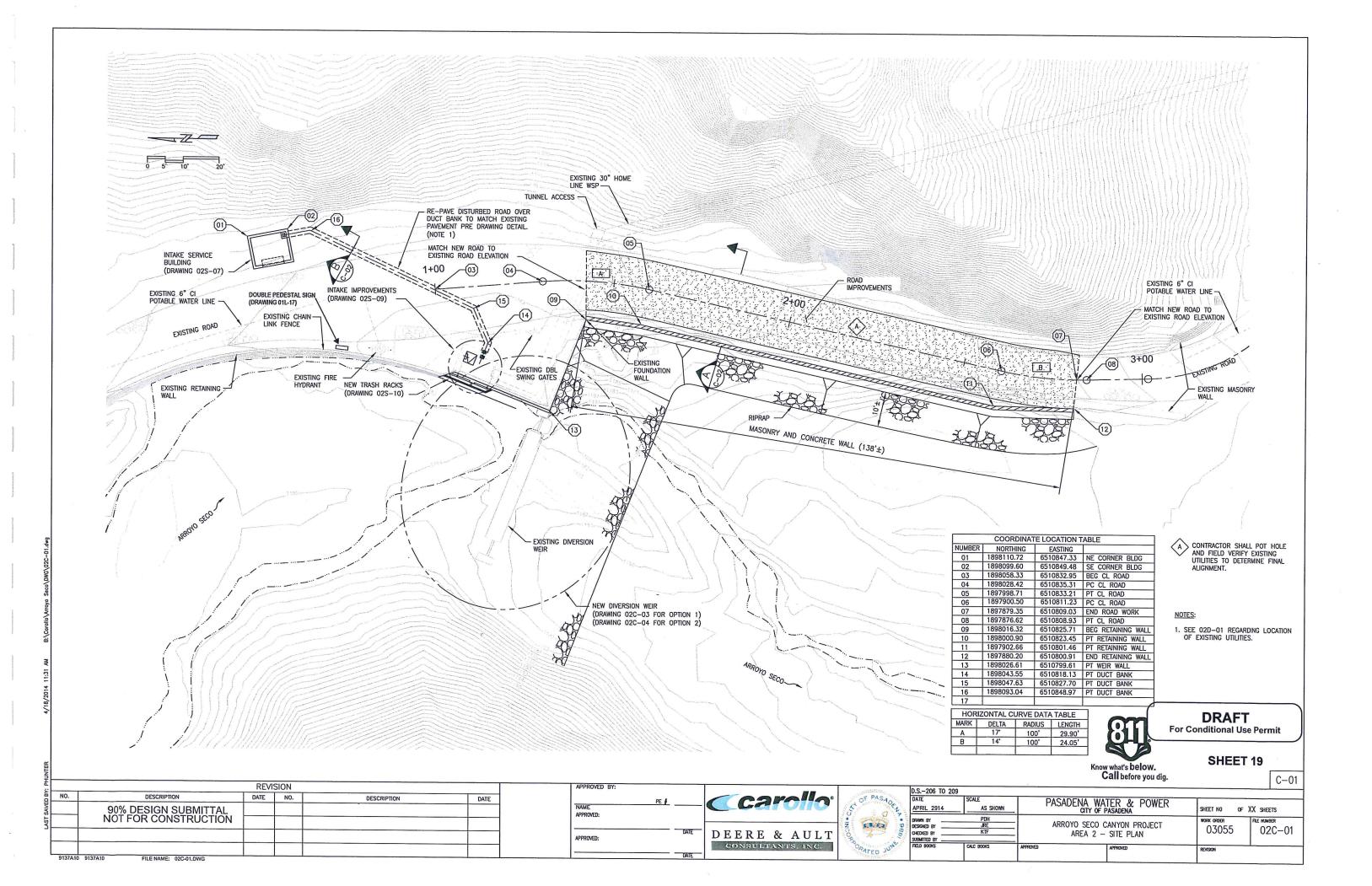
	AREA 3: PF
5830-001-906	
	5823-015
JPL	
REVISION     DATE     NO.     DESCRIPTION     DATE     NO.     DESCRIPTION     DATE       90% DESIGN SUBMITTAL NOT FOR CONSTRUCTION     NO.     DESCRIPTION     DATE     NAME     FE       3137A10     9137A10     FILE NAME: 9137A1003001 330     State     DATE     DATE	D.S208 TO 209           DATE           DATE           MARCH 2014           Constraint           Constraint           Source           Automatic           Constraint           Source           Date           MARCH 2014           Constraint           Source           Date           MARCH 2014           Constraint           Source           March 2014           Constraint           Source           March 2014           Constraint           Source           March 2014

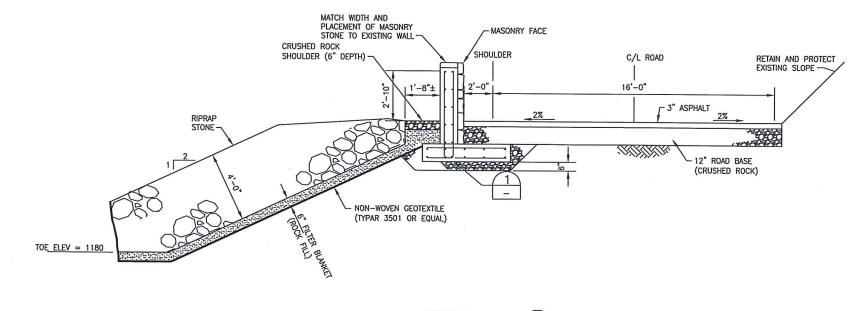
# **ROJECT SITE**



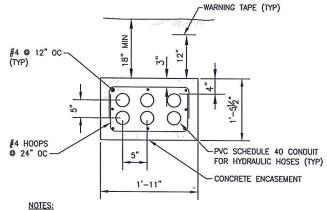
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	-	S	HEET 18	t
AS SHOWN	PASAD	ENA WATER & POWER GTY OF PASADENA	SHEET NO - OF	XX SHEETS
		YO SECO CANYON PROJECT LINE (AREA 3 PROJECT SITE)	03055	00C-03
ALC BOOKS	APPROVED	TADACK D	REVISION	





SECTION	A
SCALE: 1/2"=1'-0"	C-01



NOTES:

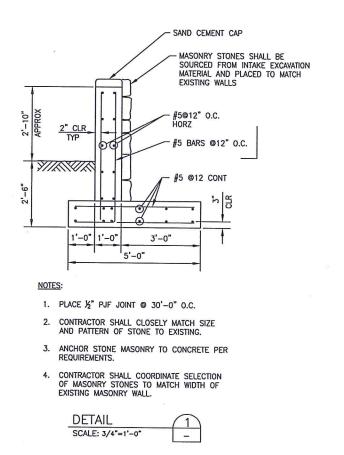
1. AT INTERSECTIONS WITH STRUCTURES HOOK #4'S INTO THE FOOTING OR WALL. (TYP)

2. LOCATE EXISTING UTILITIES AND NOTIFY ENGINEER IN THE EVENT OF CONFLICTS.

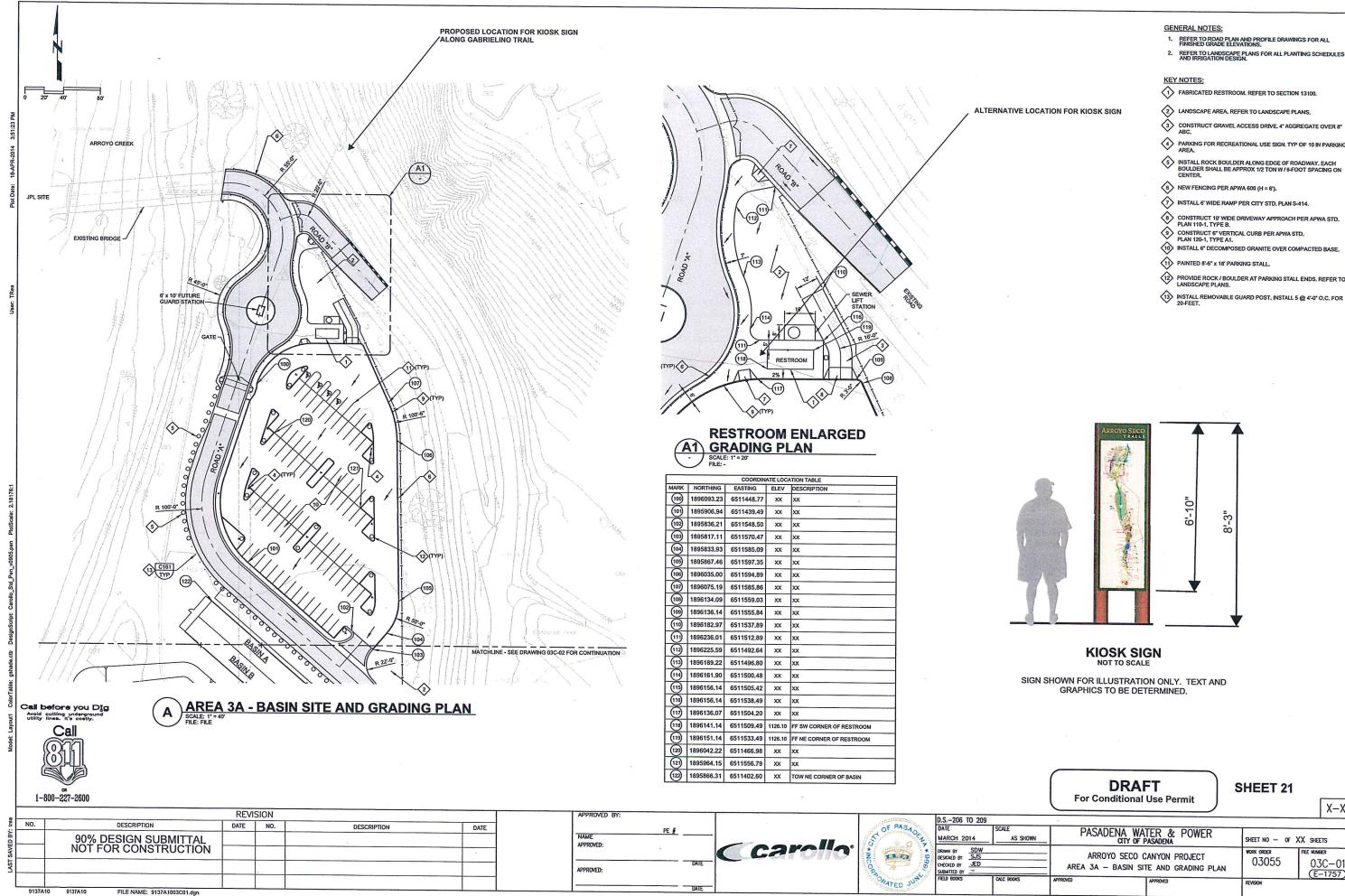
TYPICAL DUCT BANK B ENCASEMENT/REINFORCEMENT C-01

		REV	ISION			APPROVED BY:		D.S206 TO 2	209
MO.	DESCRIPTION	DATE	NO.	DESCRIPTION	DATE	PF #	- carollo	OF PASAA DATE	SCALE
SAVE	90% DESIGN SUBMITTAL					NAME	- Claivid	S APRIL 2014	AS SHOWN
AST	NOT FOR CONSTRUCTION					0		Z STATE ORANN BY	PDH JRE
		2				APPROVED:	DATE DEERE & AULT	CHECKED BY	KTF
							CONSULTANTS. INC.	PATED JUN FIELD BOOKS	CALC BOOKS
9137A10	9137A10 FILE NAME: 02C-02.DWG			the state of the second st			DATE	an and a second s	

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	For	DRAFT Conditional Use Permit	SHEET 20				
		Conditional Use Permit	$\mathcal{I}$	C-02			
_	PASADE	SHEET NO OF XX	SHEETS				
		SECO CANYON PROJECT - SECTIONS AND DETAILS	WORK ORDER FL	e number 02C—02			
	APPROVED	APPROVED	REVISION				



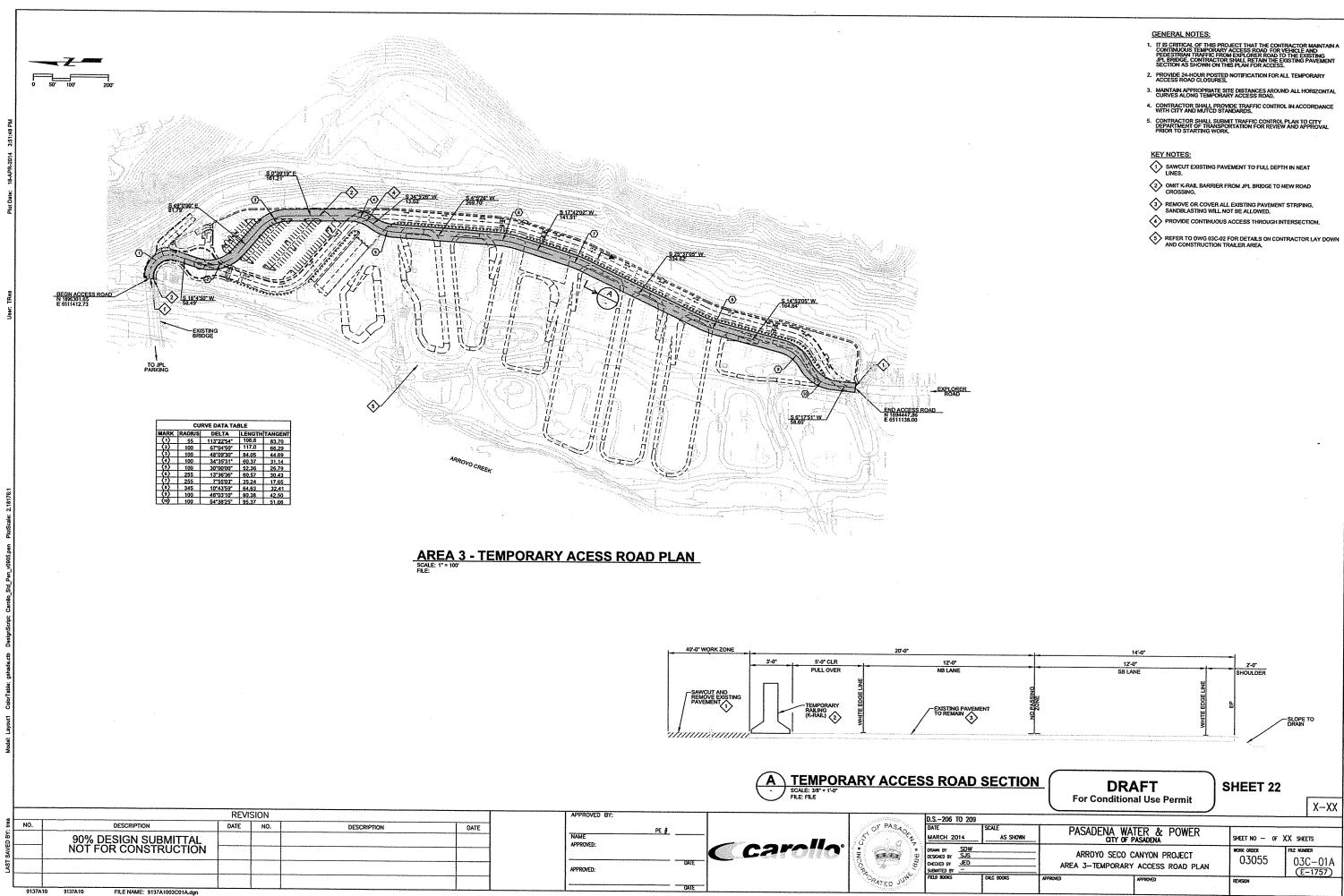
- 1. REFER TO ROAD PLAN AND PROFILE DRAWINGS FOR ALL FINISHED GRADE ELEVATIONS.
- 2. REFER TO LANDSCAPE PLANS FOR ALL PLANTING SCHEDULES AND IRRIGATION DESIGN.

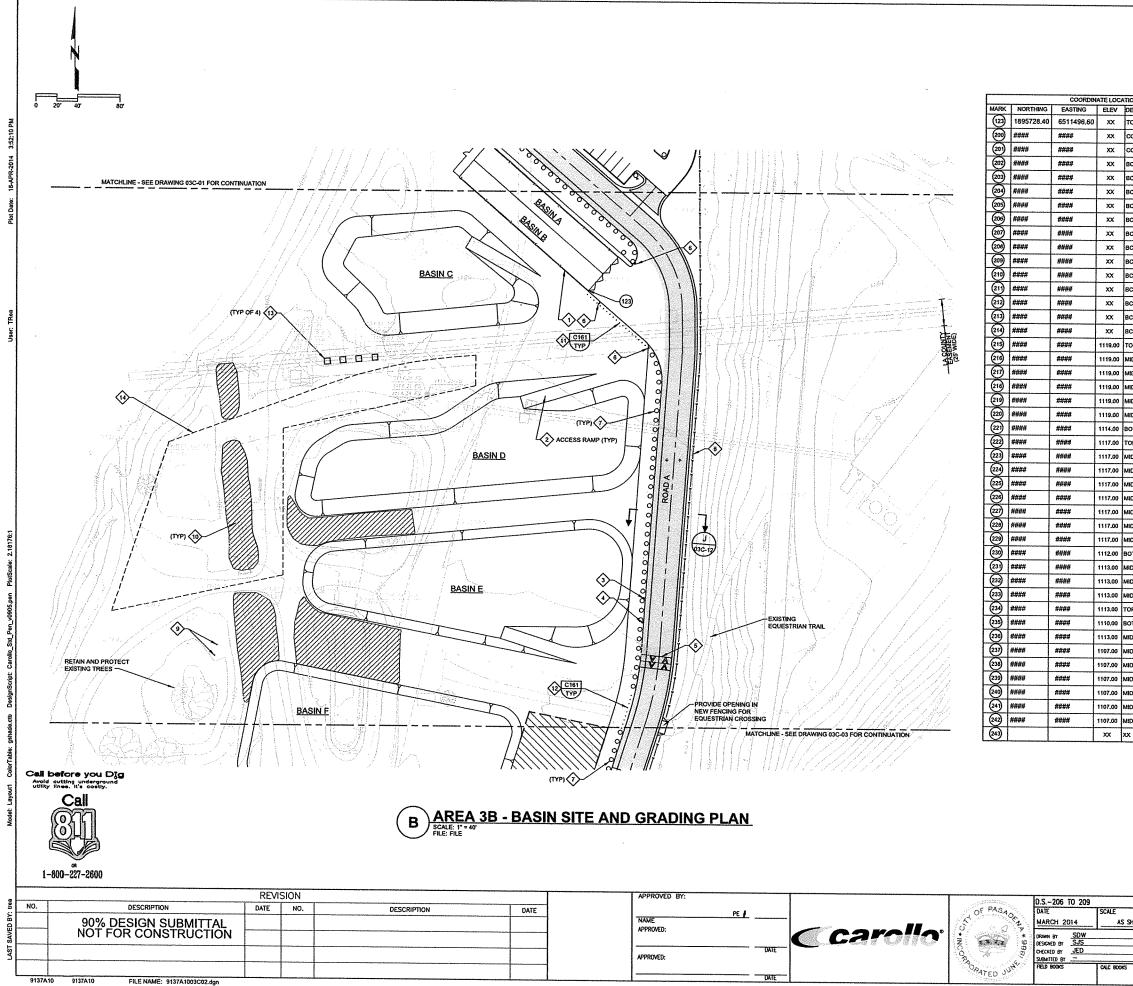
T FABRICATED RESTROOM. REFER TO SECTION 13100.

- PARKING FOR RECREATIONAL USE SIGN. TYP OF 10 IN PARKING AREA.
- S INSTALL ROCK BOULDER ALONG EDGE OF ROADWAY, EACH BOULDER SHALL BE APPROX 1/2 TON W / 5-FOOT SPACING ON CENTER.
- T INSTALL 6' WIDE RAMP PER CITY STD. PLAN S-414.

- 12 PROVIDE ROCK / BOULDER AT PARKING STALL ENDS. REFER TO LANDSCAPE PLANS.
- (13) INSTALL REMOVABLE GUARD POST. INSTALL 5 @ 4-0\* O.C. FOR 20-FEET.

		DRAFT litional Use Permit	SHEET 21	X-XX	
SHOWN	PASADE	NA WATER & POWER	SHEET NO OF )	KX sheets	
	ARROYO SECO CANYON PROJECT AREA 3A - BASIN SITE AND GRADING PLAN		WORK ORDER 03055 (E-1757)		
i	APPROVED	APPROVED	REVISION		





ION TABLE
ESCRIPTION
TOW SW CORNER OF BASIN
CORNER OF BASIN A
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BC, EOP
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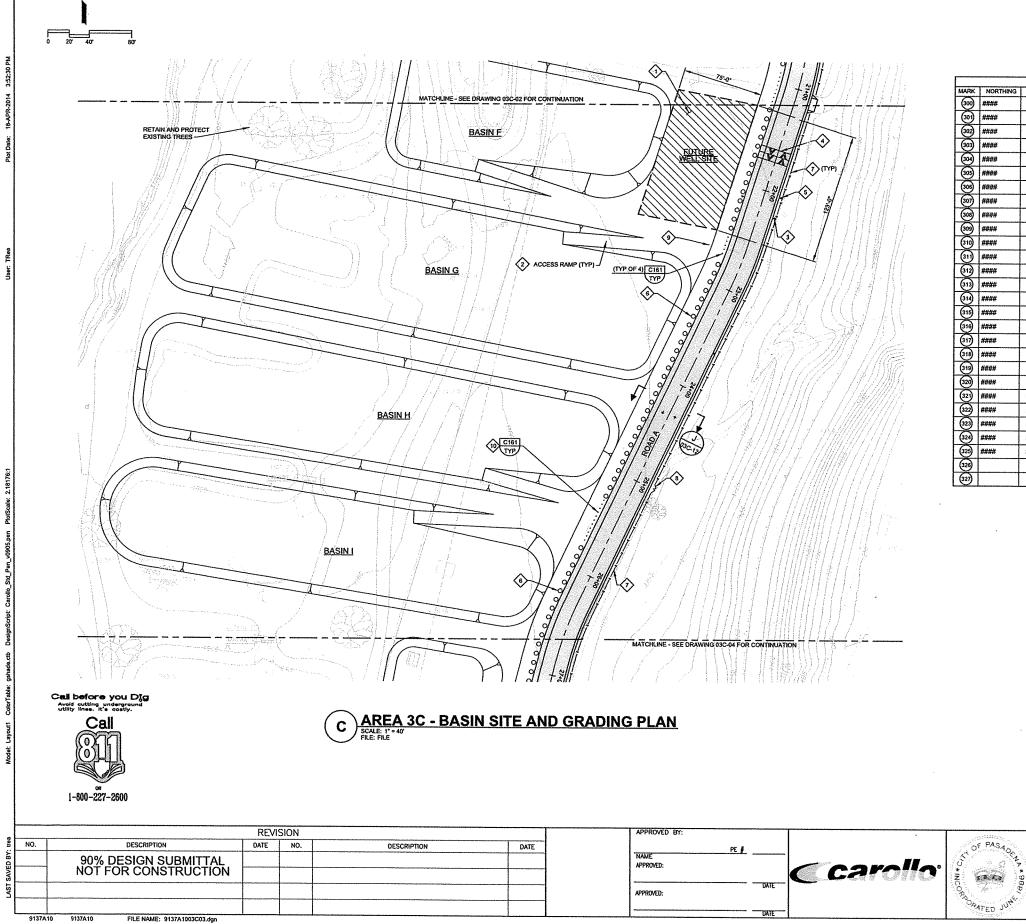
- 1. REFER TO ROAD PLAN AND PROFILE DRAWINGS FOR ALL FINISHED GRADE ELEVATIONS.
- 2. REFER TO LANDSCAPE PLANS FOR ALL PLANTING SCHEDULES AND IRRIGATION DESIGN.

KEY NOTES:

-	FURNISH AND INSTALL CHAIN LINK FENCE (H=8') AROUND PERIMETER OF BASIN A AND BASIN B PER APWA STANDARD PLAN 600. PROVIDE ONE WALK GATE (WIDTH = 4') AND TWO DOUBLE
	LEAF DRIVE GATES (WIDTH = 20'), FIELD VERIFY FINAL DIMENSIONS

- PROVIDE 8% (APPROX) LONGITUDINAL SLOPE AND 2% CROSS SLOPE. COMPACTED NATIVE MATERIAL SHALL BE USED.
- 3 SPEED BUMP SIGN. REFER TO MUTCO W8-1, (QUANTITY 6)
- EQUESTRIAN CROSSING AHEAD SIGN, REFER TO MUTCO W11-7.
- 5 SPEED BUMP PER PWS STANDARD.
- 6 "NO PARKING" SIGN. REFER TO MUTCO R7-1. (QUANTITY 3)
- INSTALL ROCK BOULDER ALONG EDGE OF ROADWAY, EACH BOULDER SHALL BE APPROX 1/2 TON W (6-FOOT SPACING ON CENTER.
- (B) NEW CHAIN LINK FENCING PER APWA 600 (H = 6').
- RETAIN AND PROTECT EXISTING POWER POLE, GUY WIRES, AND OVER HEAD POWER LINES. REFER TO ALL SCE SAFETY REQUIREMENTS WHEN OPERATING AROUND SCE EQUIPMENT.
- FILL IN USED BASINS, DEPRESSIONS, AND CHANNELS, GRADE EVENLY TOWARDS BASINS NOT TO EXCEED 5% SLOPE.
- INSTALL REMOVABLE GUARD POST. INSTALL 19 @ 4-0\* O.C. FOR 72-FEET.
- 12 INSTALL REMOVABLE GUARD POST, INSTALL 9 @ 4-0\* O.C. FOR 36-FEET.
- 433 FURNISH AND INSTALL COATED STEEL PLATES OVER EXISTING OPENING IN STORM DRAIN BOX (APPROX. 9'X 9'X 1') BEFORE BACKFILLING TO REACH GRADE.
- CONTRACTOR LAY DOWN AND CONSTRUCTION TRAILER AREA.

	<b>DRA</b> For Condition		S	HEET 23		X-XX
HOWN	PASADENA WA	TER & POWER		Sheet no of )	(X SHE	L
	ARROYO SECO CANYON PROJECT AREA 3B - BASIN SITE AND GRADING PLA			WORK ORDER 03055	FILE KUM 03 (E-	-1757)
	APPROVED	APPROVED		REVISION		



COORDINATE LOCATION TABLE				
IARK	NORTHING	EASTING	ELEV	DESCRIPTION
300	####	####	xx	BC, ROAD CL
301	####	####	xx	BC, ROAD CL
302	####	####	xx	BC, ROAD CL
303	####	****	xx	BC, ROAD CL
304)	####	****	1107.00	MIDPOINT OF RADIUS
305	####	####	1107.00	TOP OF RAMP
306	####	####	1104,00	BOTTOM OF RAMP
307)	####	####	1107.00	MIDPOINT OF RADIUS
308)	####	####	1105.00	TOP OF RAMP
309	####	####	1105.00	MIDPOINT OF RADIUS
310	####	####	1105.00	MIDPOINT OF RADIUS
31)	####	####	1105.00	MIDPOINT OF RADIUS
312	####	####	1105.00	MIDPOINT OF RADIUS
313)	####	####	1102.00	BOTTOM OF RAMP
314	####	####	1103.00	MIDPOINT OF RADIUS
315	####	####	1103.00	MIDPOINT OF RADIUS
316	####	####	1103.00	MIDPOINT OF RADIUS
317	####	####	1103.00	TOP OF RAMP
318	####	####	1100.00	BOTTOM OF RAMP
319	####	####	1103.00	MIDPOINT OF RADIUS
320	####	####	1101.00	TOP OF RAMP
321	####	####	1101.00	MIDPOINT OF RADIUS
32)	####	####	1101.00	MIDPOINT OF RADIUS
323	####	####	1101.00	MIDPOINT OF RADIUS
324	####	####	1101.00	MIDPOINT OF RADIUS
325	####	####	1098.00	BOTTOM OF RAMP
326			xx	xx
327)			xx	xx

D.S.-206 TO 209

ARCH 2014

DRAWN BY <u>SDW</u> Designed by <u>SJS</u> Cr€cked by <u>JED</u> Submitted by <u>—</u> Freid books

ALC BOOKS

GENERAL NOTES:

- 1. REFER TO ROAD PLAN AND PROFILE DRAWINGS FOR ALL FINISHED GRADE ELEVATIONS.
- 2. REFER TO LANDSCAPE PLANS FOR ALL PLANTING SCHEDULES AND IRRIGATION DESIGN.

### KEY NOTES;

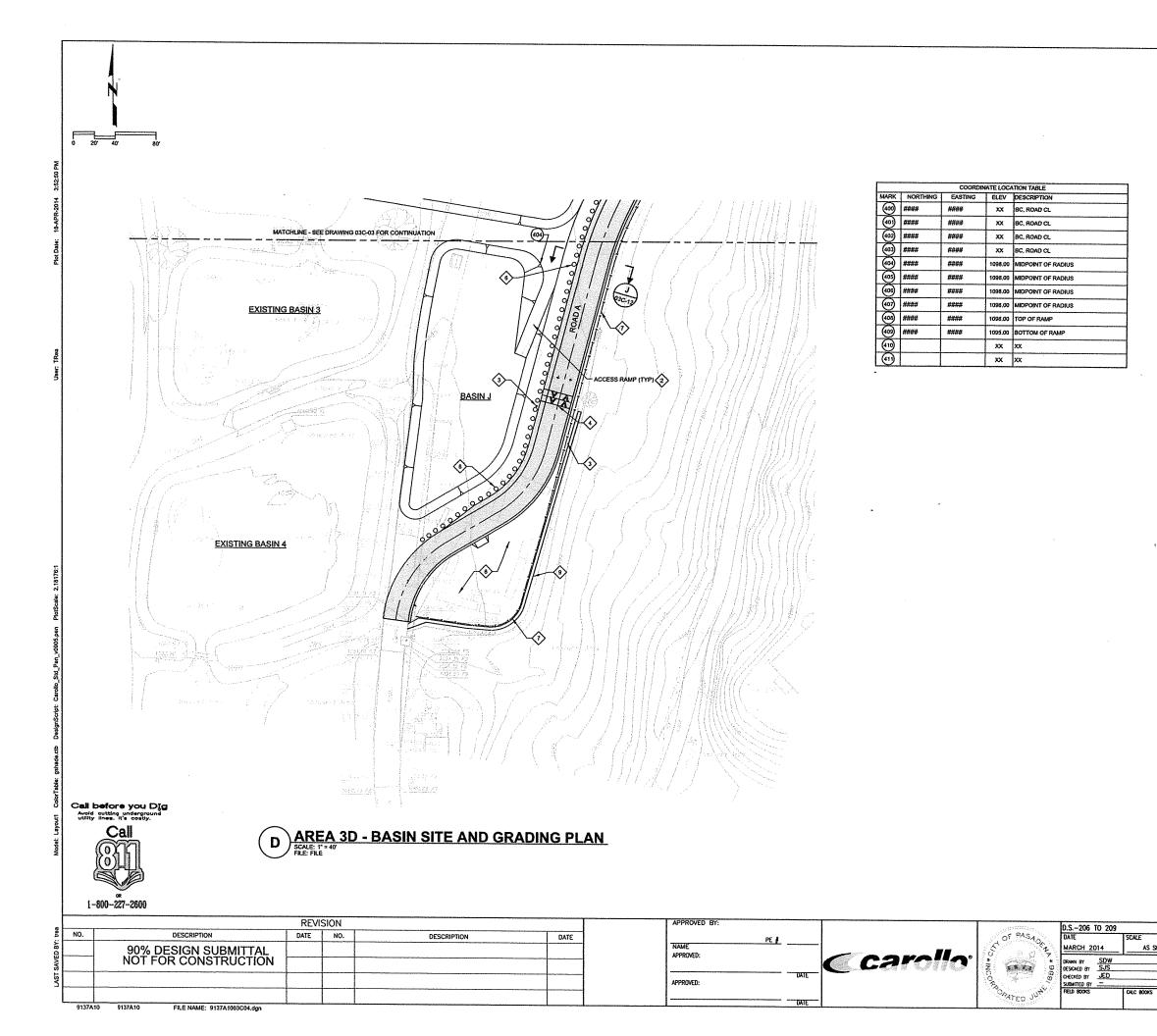
- AREA RESERVED FOR FUTURE GROUND WATER WELL.
- PROVIDE 8% (APPROX) LONGITUDINAL SLOPE AND 2% CROSS SLOPE. COMPACTED NATIVE MATERIAL SHALL BE USED.
- SPEED BUMP SIGN. REFER TO MUTCO WB-1. (QUANTITY 6)
- A SPEED BUMP PER PWP STANDARD.
- 5 EQUESTRIAN CROSSING AHEAD SIGN. REFER TO MUTCO W11-7. (QUANTITY 2)
- (1) INSTALL BOULDER ALONG EDGE OF ROADWAY. EACH BOULDER SHALL BE APPROX 1/2 TON W/6-FOOT SPACING ON CENTER.
- NEW CHAIN LINK FENCING PER APWA 600 (H = 6').
- AMAINTENANCE ACCESS GATE (APWA 600, DOUBLE LEAF, H=6")
- (9) INSTALL 15-FOOT WIDE ACCESS INTO BASIN AREA. INSTALL 4 REMOVABLE GUARD POSTS, SPACE EVENLY ACROSS OPENING.
- (1) INSTALL REMOVABLE GUARD POST, INSTALL 11 @ 4-0" O.C. FOR 40-FEET.

DRAFT
For Conditional Use Permit

SHEET 24

X-XX

AS SHOWN	PASADENA WA CITY OF P	TER & POWER vasadena	SHEET NO SHTOF )	(X sheets
		ANYON PROJECT TE AND GRADING PLAN	WORK ORDER 03055	FEE КИЛВЕК 03С-03 (E-1757)
BOOKS	APPRIVED	APPROVED	REVISION	



- 1. REFER TO ROAD PLAN AND PROFILE DRAWINGS FOR ALL FINISHED GRADE ELEVATIONS.
- 2. REFER TO LANDSCAPE PLANS FOR ALL PLANTING SCHEDULES AND IRRIGATION DESIGN.

KEY NOTES:

1 NOT USED

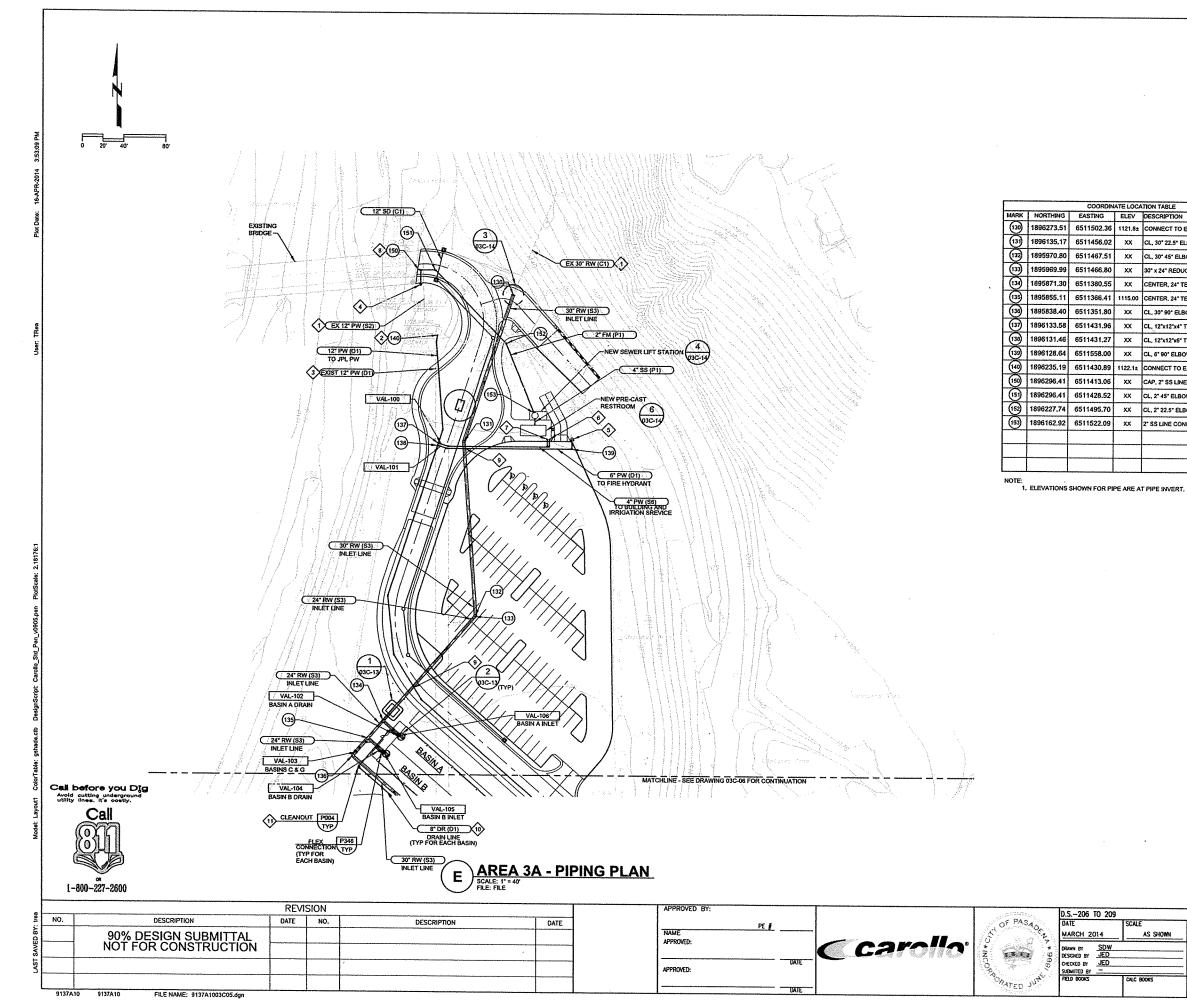
- PROVIDE 8% (APPROX) LONGITUDINAL SLOPE AND 2% CROSS SLOPE. COMPACTED NATIVE MATERIAL SHALL BE USED.
- 3 SPEED BUMP SIGN. REFER TO MUTCO W8-1. (QUANTITY 6)
- SPEED BUMP PER PWP STANDARD,
- BOULDER SHALL BE APPROX 1/2 TON W/6-FOOT SPACING ON CENTER
- $\checkmark$  NEW CHAIN LINK FENCING PER APWA 600 (H = 6').
- INSTALL 6" DECOMPOSED GRAVITE OVER COMPACTED BASE, APPROX. 8,700 S.F.
   REMOVE AND RECONSTRUCT CONCRETE DRAINAGE GUTTER PER DETAIL J. SHEET 03C-12.

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For	Conditional	Use	Permit	

SHEET 25

X–XX

IOWN	PASADENA WATER & POWER CITY OF PASADENA		Sheet no of )	(X SHEETS
	ARROYO SECO CANYON PROJECT AREA 3D - BASIN SITE AND GRADING PLAN		WORK ORDER 03055	пе клаек 03С-04 (E-1757)
	APPROMED	APPROVED	REVISION	



GENERAL	NOTE	S.

- 1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS AND THE IN CONNECTION POINTS. SUBMIT FIELD DATA TO ENGINEER.
- 2. CONTRACTOR SHALL NOT DISRUPT WATER SERVICE TO JPL AND PROTECT MAIN WHILE WORK OCCURS.
- PROTECT INVESTMENT WHILE WORK OCCURS. 3. CONTRACTOR SHALL SUBMIT 2 WEEKS IN ADVANCE A SCHEDULE TO PWP WHEN THE NEW JPL POTABLE LINE IS READY FOR CONNECTION TO THE EXISTING JPL METER. CONNECTION TO THE METER SHALL BE PERMITTED FOLLOWING PASSING OF THE PRESSURE TEST, DISMFECTION, AND PASSING OF THE PRESSURE TESTING. BACTERIOLOGICAL TESTING.
- 4. CONTRACTOR SHALL PROVIDE AT ALL TIMES NORTH BOUND AND SOUTH BOUND VEHICLE ACCESS IN AREA 3. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL THAT CONFORMS TO MUTCD AND THE CITY'S DEPARTMENT OF TRANSPORTATION.
- 5. REFER TO ROAD PLAN AND PROFILE DRAWINGS FOR STORM DRAIN PIPE DESIGN.

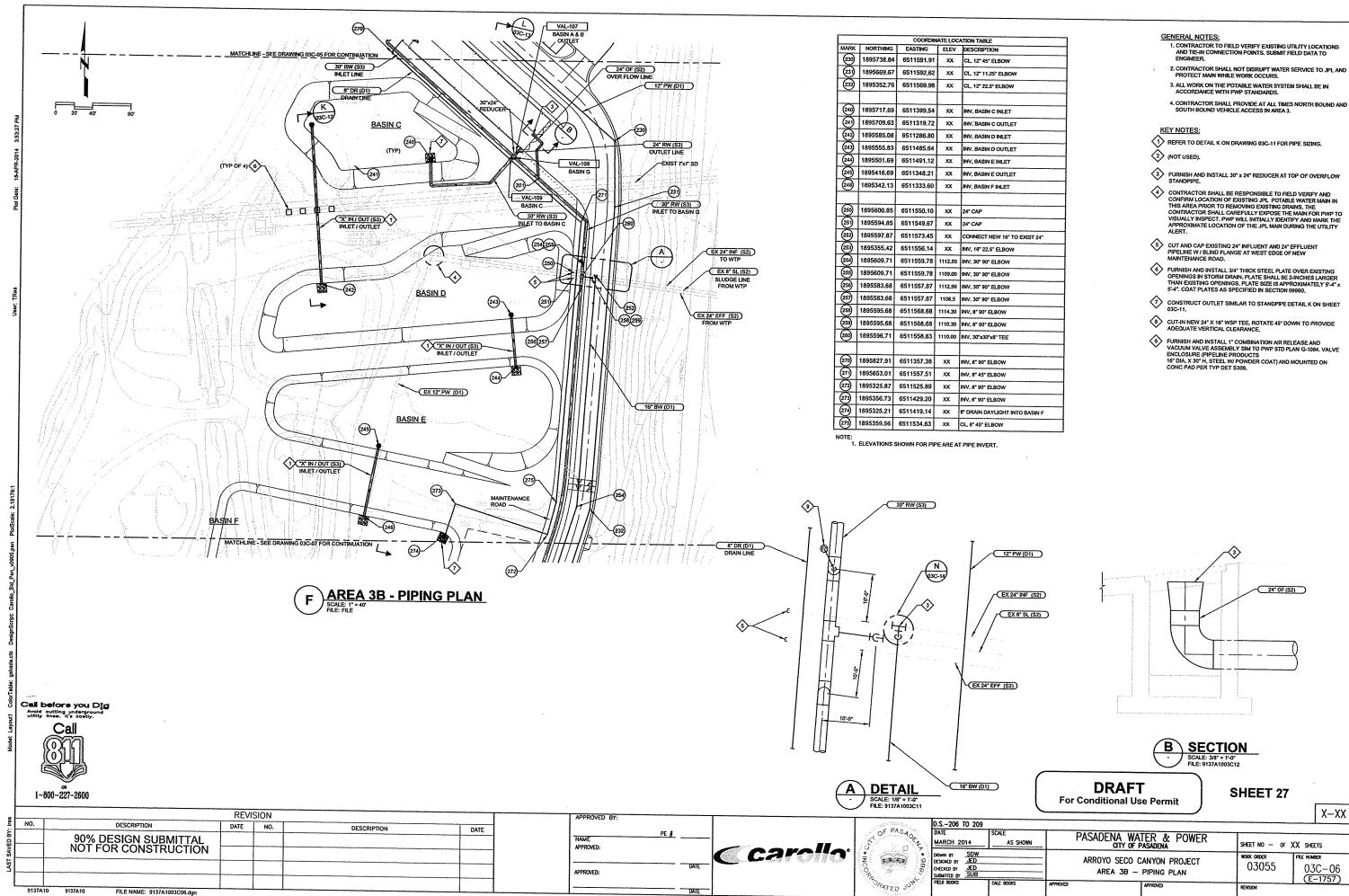
TABLE
RIPTION
ECT TO EXISTING
)* 22.5* ELBOW
9* 45* ELBOW
24" REDUCER
ER, 24" TEE
ER. 24" TEE
" 90" ELBOW
"x12"x4" TEE
"x12"x6" TEE
90° ELBOW
ECT TO EXISTING
2" SS LINE
45" ELBOW W/ WYE & CLEANOUT
22.5° ELBOW
LINE CONN. @ LIFT STATION

KEY NOTES:

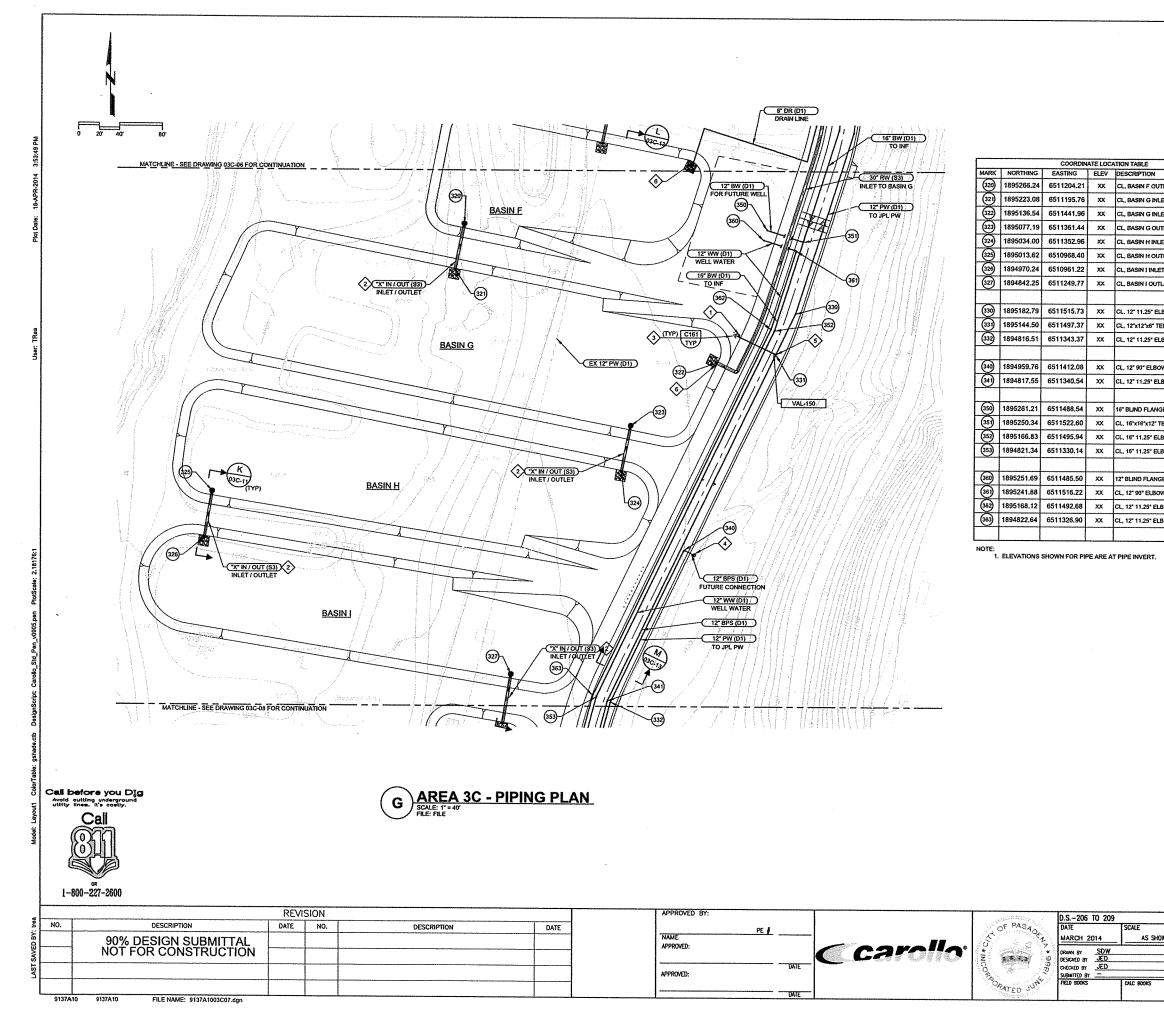
- RETAIN AND PROTECT EXISTING PIPING.
- CONNECTION TO EXISTING METER VAULT BY PWP.
- THE EXISTING 12" PW (D1) LINE SHALL REMAIN IN SERVICE UNTIL SWITCH OVER TO NEW 12" PW (D1), REFER TO SPECIFICATIONS FOR SCHEDULE CONSTRAINTS AND WORK RESTRICTIONS.
- INSTALL 1° COMBINATION AIR RELEASE AND VACUUM VALVE ASSEMBLY,
- S INSTALL FIRE HYDRANT PER PWP STD PLAN C-1327 WITH GUARD POST PER TYP DETAIL C160.
- INSTALL 2" WATER SERVICE CONNECTION PER PWP STD PLAN
  W-102 FOR IRRIGATION CONNECTION.
- INSTALL 2" WATER SERVICE CONNECTION PER PWP STD PLAN W-102 FOR POTABLE WATER GOING TO RESTROOM.
- ROUTE 2" FORCE MAIN TO EDGE OF EXIST, BRIDGE, PROVIDE CAP AND MARK AT GROUND SURFACE FOR FUTURE CONNECTION TO CITY SEWER EXTENSION.
- POTABLE AND VERTICAL PIPE CROSSING, PROVIDE AS REQUIRED PER CITY AND COPH REQUIREMENTS.
- FURNISH AND INSTALL 8-INCH DRAIN (JO3AM SERIES 32300 OR EQUAL) WI 15 FT OF SST CHAIN TO ELEVATED DECK. SECURE CHAIN TO HOOK MOUNTED AT END OF DECK PROVIDE FOUR-112\* DIA SST HOOKS EQUALLY SPACED ACROSS THE END OF DECK.
- PROVIDE CLEANOUTS EVERY 100 FT ON 8" DR LINE.

	DRAFT For Conditional Use Permit	SHEET 26	X-XX
SHOWN	PASADENA WATER & POWER	SHEET NO OF X	X SHEETS
	ARROYO SECO CANYON PROJECT AREA 3A - PIPING PLAN	WORK ORDER 03055	FRE NUMBER 03C-05 (E-1757)

EVISION



)WN	PASADENA WA	TER & POWER Pasadena	SHEET NO OF	XX sheets
		CANYON PROJECT PIPING PLAN	WORK ORDER 03055	PRE NUMBER 03C-06 (E-1757)
	APPROVED	APPROVED	REVISION	



- 1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS AND THE-IN CONNECTION POINTS. SUBMIT FIELD DATA TO ENGINEER.
- 2. CONTRACTOR SHALL NOT DISRUPT WATER SERVICE TO JPL AND PROTECT MAIN WHILE WORK OCCURS.
- 3. ALL WORK ON THE POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH PWP STANDARDS.
- 4. CONTRACTOR SHALL PROVIDE AT ALL TIMES NORTH BOUND AND SOUTH BOUND VEHICLE ACCESS IN AREA 3.

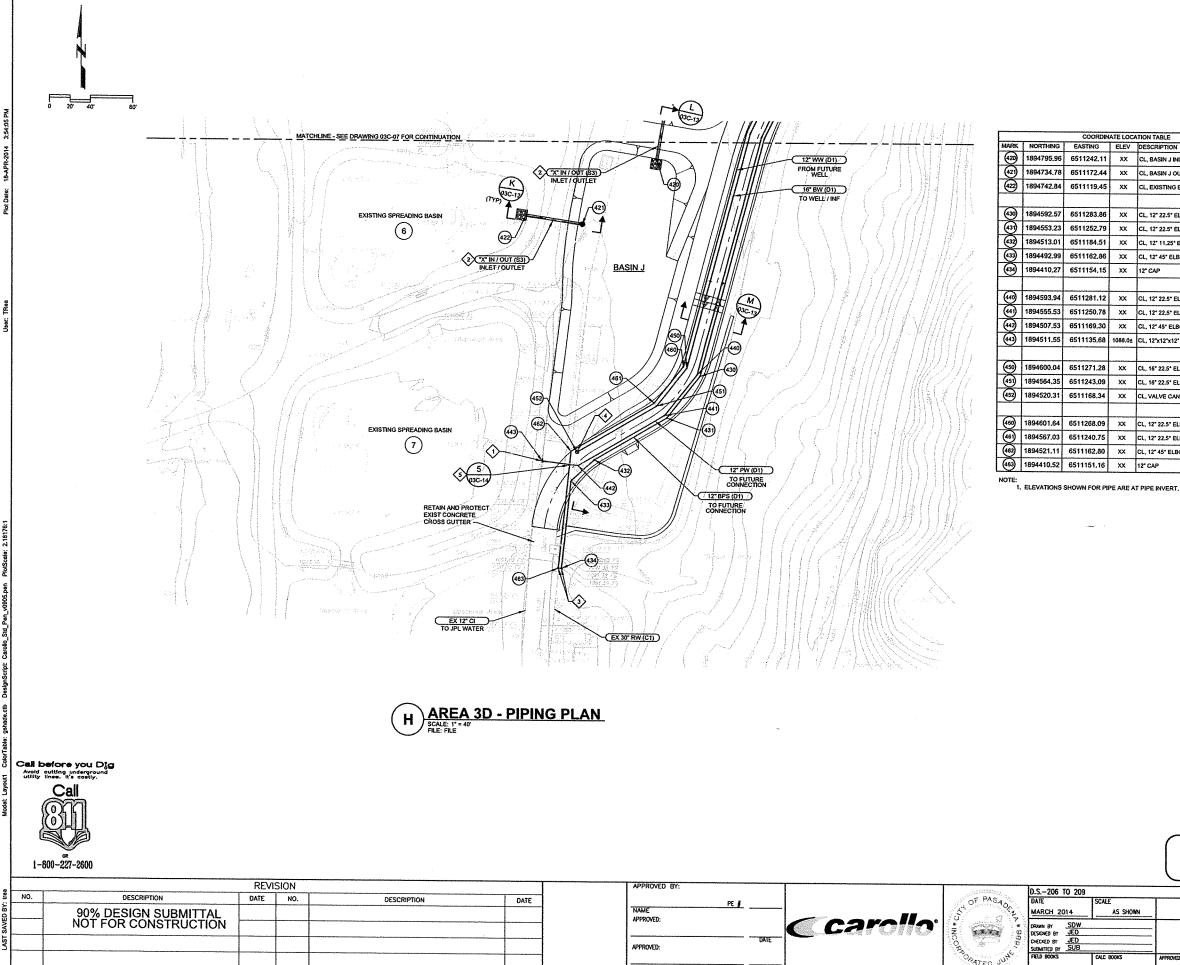
KEY NOTES:

INSTALL 6"x6"x4" TEE AND CAP FOR FUTURE CONNECTION.

- 2 REFER TO DETAIL K ON DRAWING 03C-12 FOR PIPE SIZING.
- (3) INSTALL FIRE HYDRANT WITH GUARD POST PER PWP STD PLAN C-1374.
- INSTALL VALVE AND VALVE CAN AT END OF 12" BPS LINE PER PWP STD PLANS G-1224 AND G-1225
- 5 INSTALL 6"x12"x12" TEE W/ 6" GATE VALVE.
- C DAYLIGHT LINE INTO BOTTOM OF BASIN, TERMINATE PER DETAIL K, SHEET 03C-12,

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	DRAFT For Conditional Use Permit	SHEET 28	X-XX
SHOWN	PASADENA WATER & POWER CITY OF PASADENA	SHEET NO OF >	(X sheets
	ARROYO SECO CANYON PROJECT AREA 3C - PIPING PLAN	work order 03055	FILE NUMBER 03C-07 (E-1757)
	10000 50		



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9137A10

FILE NAME: 9137A1003C08.dgn

GENERAL	NOTES:

- 1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS AND TIE-IN CONNECTION POINTS. SUBMIT FIELD DATA TO ENGINEER.
- 2. CONTRACTOR SHALL NOT DISRUPT WATER SERVICE TO JPL AND PROTECT MAIN WHILE WORK OCCURS.
- 3. ALL WORK ON THE POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH PWP STANDARDS.
- 4. CONTRACTOR SHALL PROVIDE AT ALL TIMES NORTH BOUND AND SOUTH BOUND VEHICLE ACCESS IN AREA 3.

## KEY NOTES:

- HOT TAP EXISTING 12' WATER MAIN WITH 12'x12'x12' SST TAPPING SLEEVE. INSTALL 12' GATE VALVE W VALVE BOX PER PWP STD PLAN G-1224. WORK TO BE DONE BY CITY.
- 2 REFER TO DETAIL K ON DRAWING 03C-12 FOR PIPE SIZING.
- TERMINATE W/ BLIND FLANGE. PROVIDE MARKER THAT EXTENDS FROM PIPE FLANGE TO GROUND SURFACE.
- INSTALL VALVE AND VALVE CAN FOR 16" BW LINE PER PWP STD PLAN G-1224.
- PROVIDE 1-FOOT VERTICAL SEPARATION AT CROSSING PER COPH REQUIREMENTS.

OCATION TABLE				
v	DESCRIPTION			
(	CL, BASIN J INLET			
¢	CL, BASIN J OUTLET			
(	CL, EXISTING BASIN INLET			
(	CL, 12* 22.5* ELBOW			
:	CL, 12" 22.5" ELBOW			
:	CL, 12" 11.25" ELBOW			
:	CL, 12* 45* ELBOW			
:	12" CAP			
	CL, 12" 22.5" ELBOW			
	CL, 12* 22.5* ELBOW			
	CL, 12" 45" ELBOW			
0±	CL, 12"x12"x12" SST TAPPING SLEEVE			
	CL, 16* 22.5* ELBOW			
	CL, 16* 22.5* ELBOW			
	CL, VALVE CAN			
	CL, 12* 22.5* ELBOW			
	CL, 12" 22.5" ELBOW			
	CL, 12" 45" ELBOW			
	12" CAP			
_				

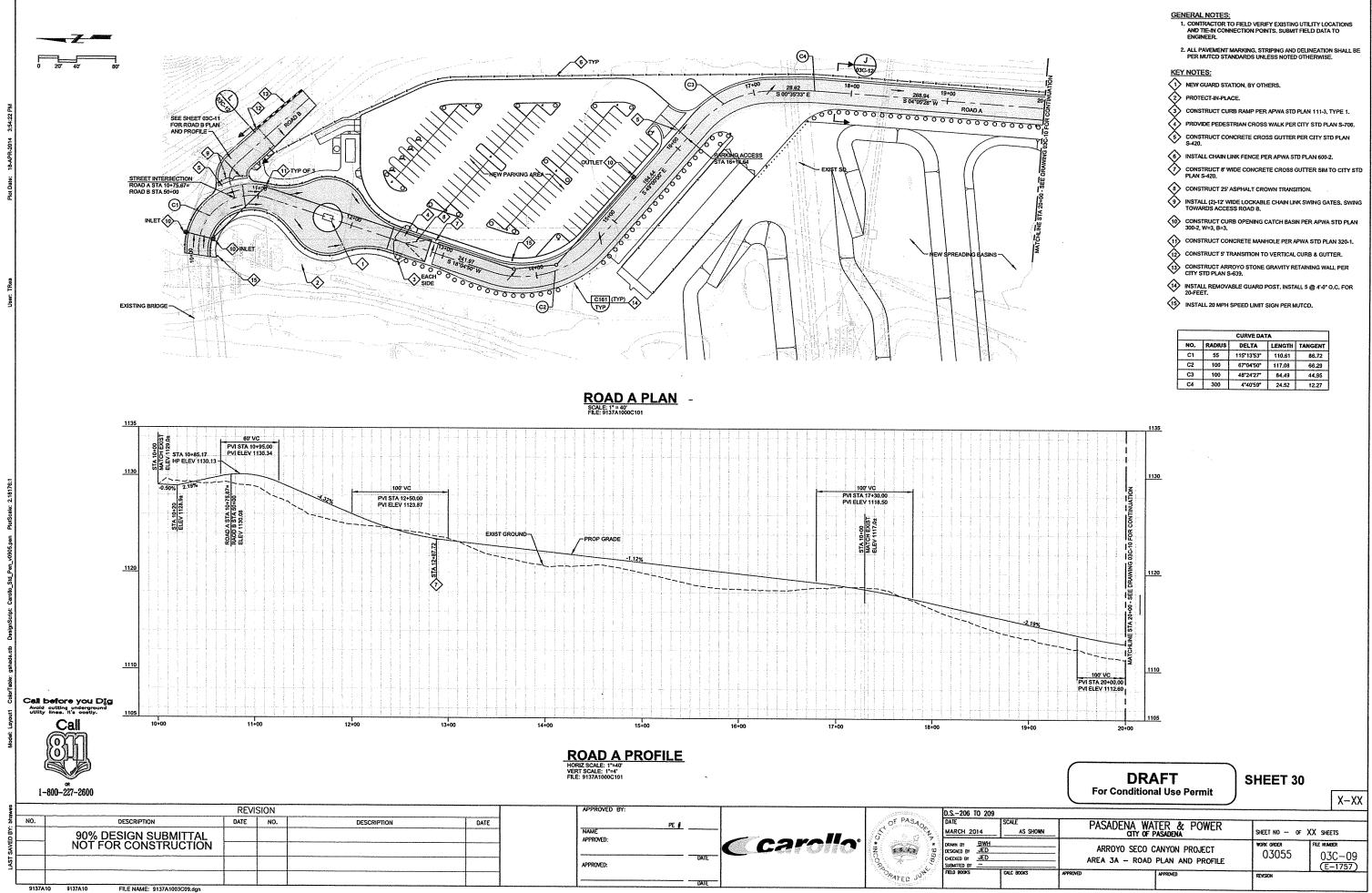
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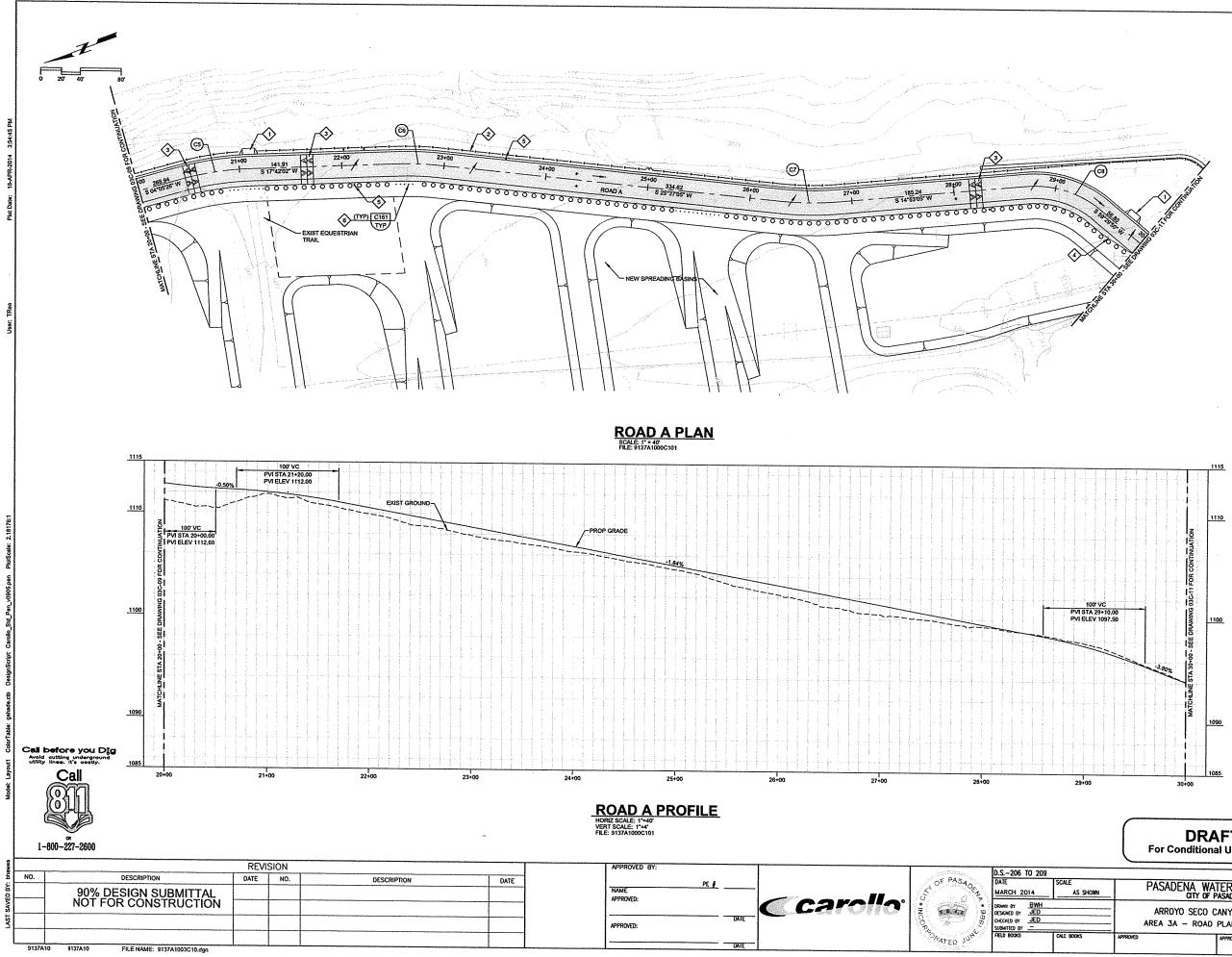
SHEET 29

X-XX

SHOWN	PASADENA WATER & POWER CITY OF PASADENA		sheet no - of )	(X sheets
	ARROYO SECO CANYON PROJECT AREA 3D PIPING PLAN		work order 03055	FRE HUMBER 03C-08 (E-1757)
5	APPROVED	APPROVED	REVISION	



CURVE DATA					
NO,	RADIUS	DELTA	LENGTH	TANGENT	
C1	55	115"13'53"	110.61	86.72	
C2	100	67"04'50"	117.08	66.29	
C3	100	48*24'27*	84.49	44.95	
C4	300	4*40'59*	24.52	12.27	



GENERAL NOTES: 1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS AND TIE-IN CONNECTION POINTS, SUBMIT FIELD DATA TO ENGINEER.

2. ALL PAVEMENT MARKING, STRIPING AND DELINEATION SHALL BE PER MUTCD STANDARDS.

### KEY NOTES:

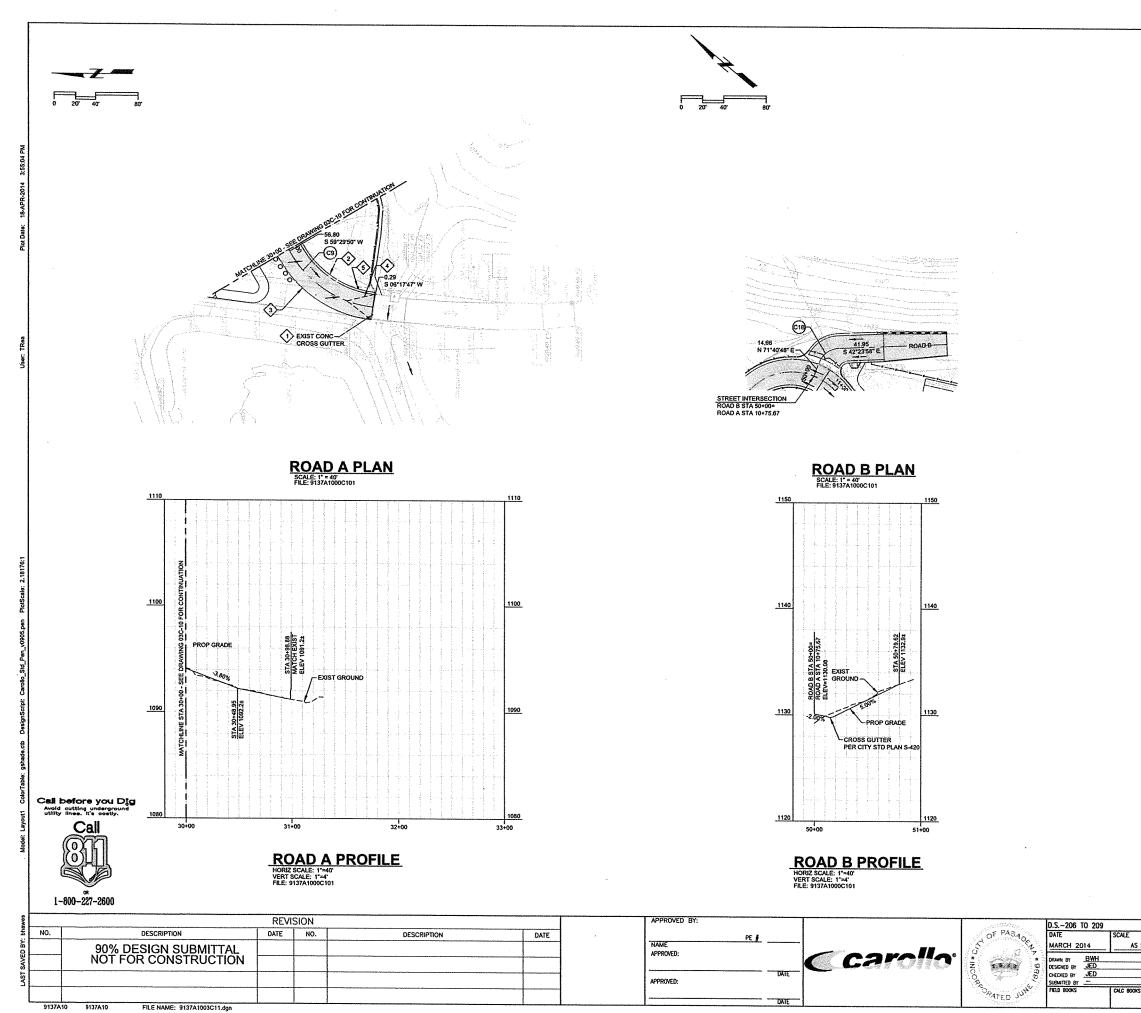
CONSTRUCT 12 WIDE DRIVEWAY APPROACH, TYPE B PER APWA STD PLAN 110-1.

- (2) INSTALL CHAIN LINK FENCE PER APWA 600-2.
- 3 CONSTRUCT SPEED HUMP PER CITY STD DETAIL S-707.
- CONSTRUCT 40' LONG AC TRANSITION FROM 5' WIDE TO 0' WIDE.
- 5 INSTALL 20 MPH SPEED LIMIT SIGN PER MUTCD.
- INSTALL (2)-12' WIDE LOCKABLE CHAIN LINK SWING GATES, SWING TOWARDS ACCESS ROAD A.

CURVE DATA					
NO.	RADIUS	DELTA	LENGTH	TANGENT	
C5	300	13"36"36"	71.26	35.80	
C6	300	7*55'03*	41,45	20,76	
C7	300	10*43'59*	56.2	28.18	
C8	100	44"36'45"	77.86	41.03	

	DRAFT For Conditional Use Permit	SHEET 31	X-XX
IOWN	PASADENA WATER & POWER	SHEET NO OF XX SHEE	TS
	ARROYO SECO CANYON PROJECT AREA 3A - ROAD PLAN AND PROFILE		C-10 -1757)

REVISION



- GENERAL NOTES: 1. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS AND THE IN CONNECTION POINTS, SUBMIT FIELD DATA TO ENGINEER.
- 2. ALL PAVEMENT MARKING, STRIPING AND DELINEATION SHALL BE PER MUTCO STANDARDS.

## KEY NOTES:

- PROTECT-IN-PLACE.
- TRANSITION FLOWLINE OFF NEW GUTTER TO MATCH EXISTING DRAINAGE CHANNEL.
- 3 transition ac along curve radius to match exist road width.
- CONSTRUCT 25' LONG AC TRANSITION OF ROAD CROSS SLOPE TO MATCH EXIST CROSS GUTTER GRADES.
- 5 INSTALL 20 MPH SPEED LIMIT SIGN PER MUTCD.

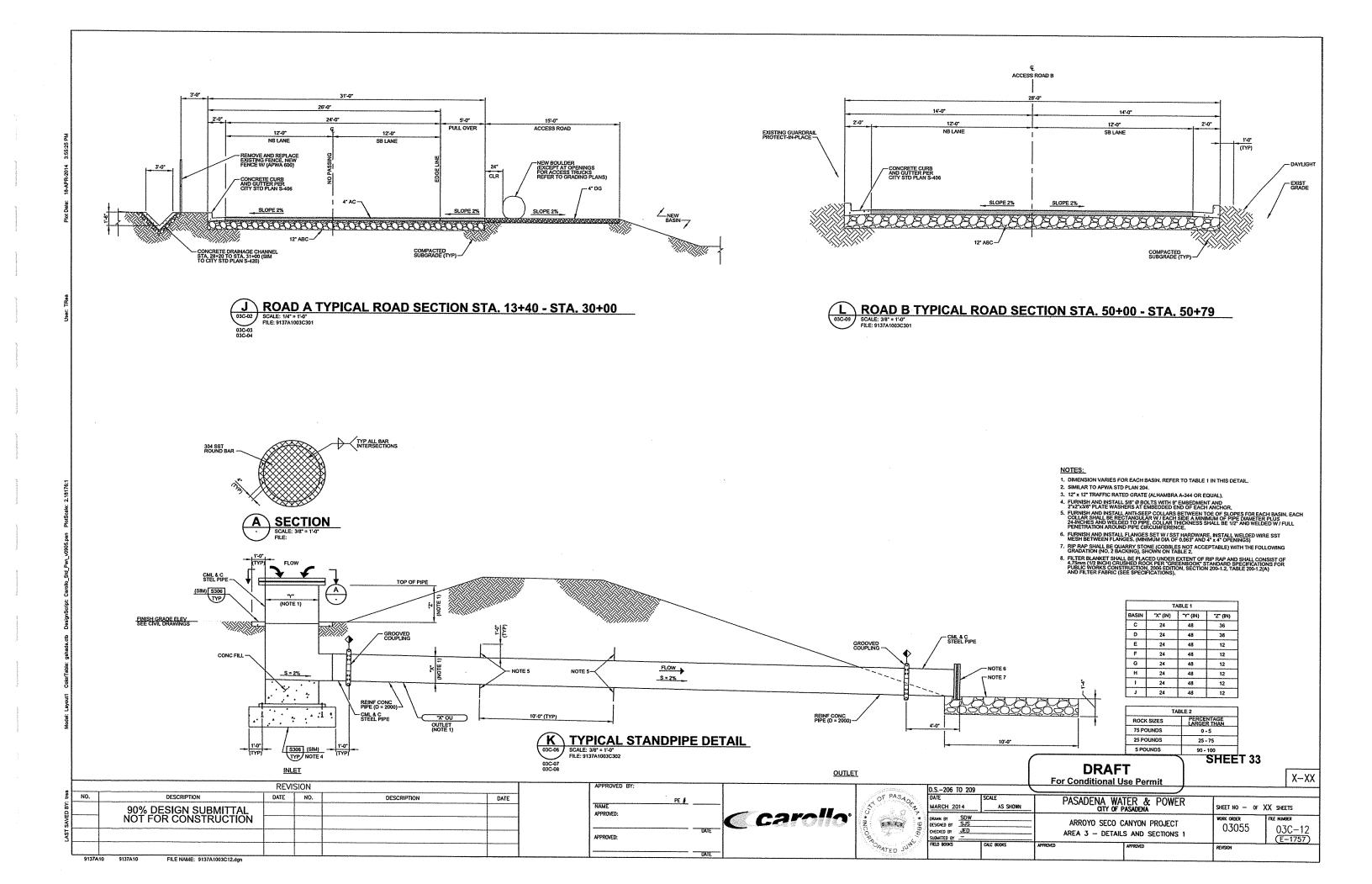
CURVE DATA				
NO.	RADIUS	DELTA	LENGTH	TANGENT
C9	100	53*12'03*	92.85	50,08
C18	20	65*55'14*	23.01	12,97

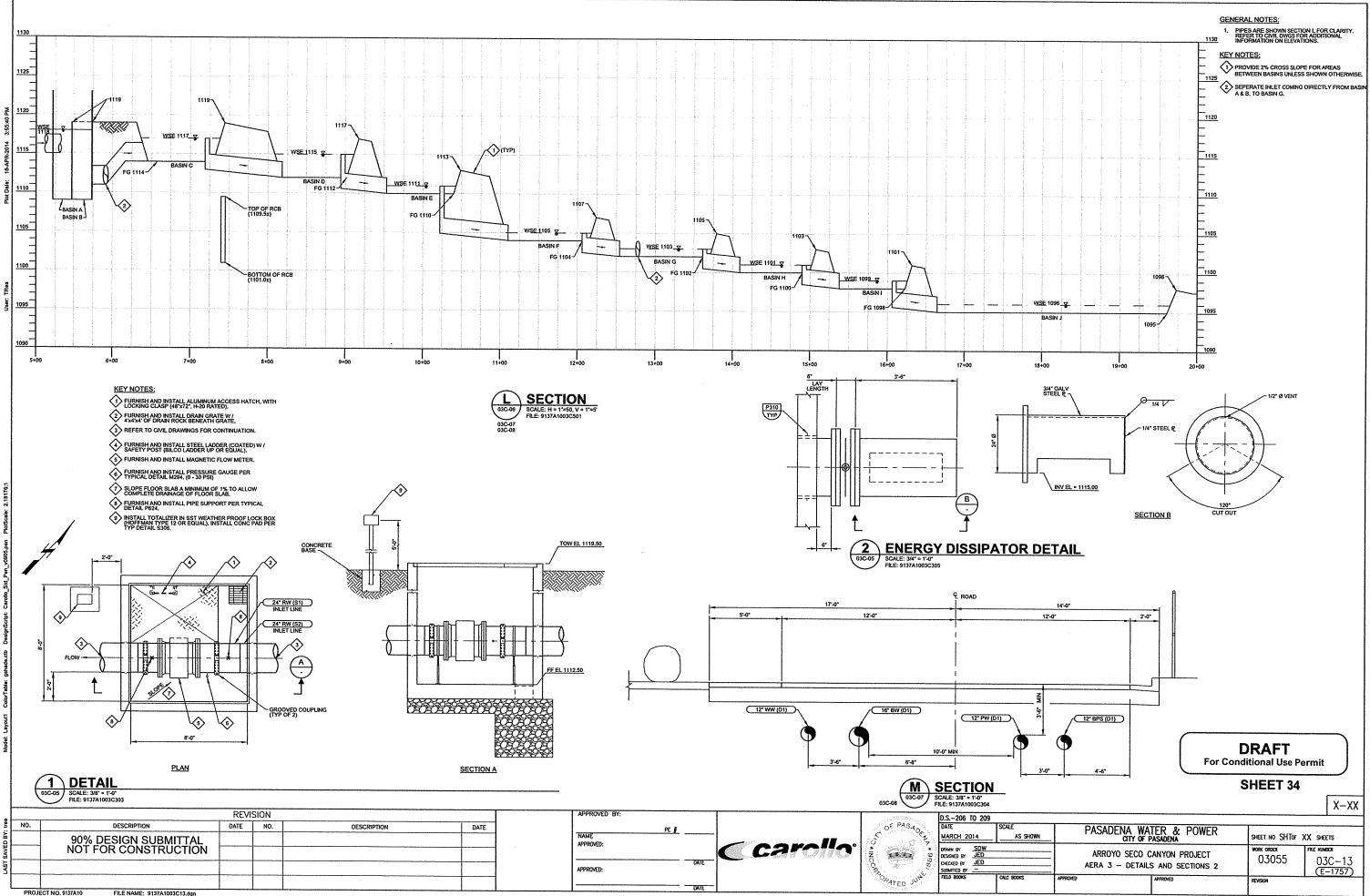
				X-XX
SHOWN	PASADE	NA WATER & POWER CITY OF PASADENA	Sheet no - of	XX sheets
	AREA 3A	SECO CANYON PROJECT - ROAD PLAN AND PROFILE	work order 03055	PILE NUMBER 03C-11 (E-1757)
	APPROVED	APPROVED	REVISION	1

SHEET 32

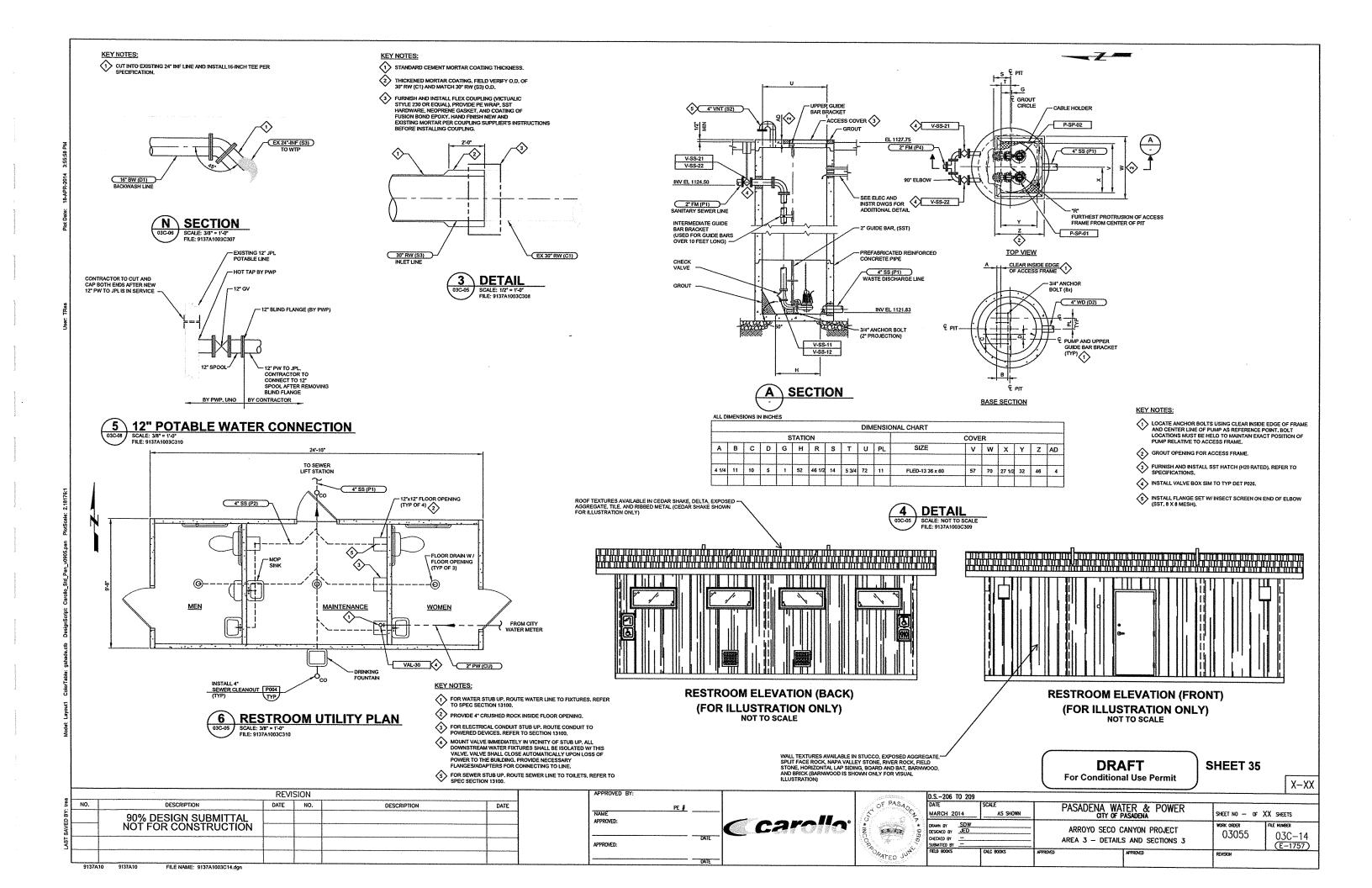
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FILE NAME: 9137A1003C13.dgn



	ELECTRICAL PLAN SYMBOLS			ELECTRICAL ONE-LINE SYMBOLS	
<b>IDENTIFICATION SYMBOLS</b>	SWITCHES/RECEPTACLES	RACEWAY	MEDIUM VOLTAGE	LOW VOLTAGE	MISCELLANEOUS
EQUIP # EQUIPMENT AND INSTRUMENT IDENTIFICATION	SINGLE POLE SWITCH a = CIRCUIT DESIGNATION b = DEVICE SWITCHED DESIGNATION	EXPOSED CONDUIT	a 52 b 52 b = CIRCUIT BREAKER, MEDIUM VOLTAGE a = CIRCUIT BREAKER, MEDIUM VOLTAGE b = FRAME SIZE	e LOW VOLTAGE CIRCUIT BREAKER b O c D f MCP = MOTOR CIRCUIT PROTECTOR d O f TM = THERMAL MAGNETIC SS = \$OULD STATE	HP MOTOR HP = HORSEPOWER RATING FULL LOAD AMPS AS NOTED
	C = TYPE C = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH	EXPOSED CONDUIT HIDDEN BEHIND WALLS, FLOORS OR OTHER STRUCTURES	a ANSI RELAY DEVICE a = ANSI DEVICE FUNCTION b = QUANTITY	b = FRAME SIZE (MANUFACTURER TO DETERMINE FRAME SIZE UNIESS INDICATED) c = NUMBER OF POLES d = TRIP SETTING (AT = AMP TRIP) (AC = MCP CONTINUOUS RATING)	a PACKAGED EQUIPMENT LOAD RATING AS IND/CATED a = RATED LOAD b = UNIT(HP, KW, KVA) AS IND/CATED
b a a circuit designation b = circuit designation b = DEVICE SWITCHED FROM c = MOUNTING HEIGHT IN FEET TO BOTTOM OF FIXTURE	K = KEY OPERATED SWITCH F = SWITCH AND PULOT LIGHT T = THERMOSTAT D = DIMMER SWITCH L = LOW VOLTAGE LIGHT SWITCH M = MARUAL MOTORS STARTER	UNDERGROUND CONDUIT, DIRECT BURIED     OR IN DUCTBANK     CONDUIT IN SLAB	MEDIUM VOLTAGE DISCONNECT SWITCH NON-FUSED CUT OUT	e = DESIGNATION f = INTERRUPTING RATING O O O O O O O O O O O O O O O O O O O	TRANSFORMER a a = DEVICE LD. b b = KVA RATING g c = NUMBER OF PHASES d d = PRIMARY VOLTAGE b e = SECONDARY VOLTAGE
CONDUIT IDENTIFICATION XXXX CONDUIT NUMBER, REFER TO CONDUIT SCHEDULE UNLESS OTHERWISE NOTED, GROUPED CONDUITS ARE LABELED LEFT TO RIGHT OR TOP TO BOTTOM.		CONDUIT VERTICAL CHANGE IN DIRECTION     CONDUIT CAP	MEDIUM VOLTAGE DISCONNECTING FUSE SINGLE FUSE CUT OUT	* = S = SHUNT TRIP = G = GROWND AAULT INTERRUPTER = V = SOLENOID KEY RELEASE	n f.g = CONNECTION TYPE SYMBOL h = IMPEDANCE ↓ GROUNDED WYE CONNECTION Δ DEI TA CONNECTION
(PERTAINS ONLY TO SHEET WHERE NOTE IS FOUND)	$\begin{array}{l} & \varTheta_{b}^{a} & \text{SWITCH AND SINGLE RECEPTACLE} \\ a = CIRCUIT DESIGNATION \\ b = DEVICE TYPE DESIGNATION \end{array}$	JUNCTION BOX	MEDIUM VOLTAGE DISCONNECTING FUSE DOUBLE FUSE CUT OUT	O DISCONNECT SWITCH A = TYPE, REFER TO DISCONNECT SCHEDULE	ENGINE-GENERATOR RATINGS AS INDICATED ON
EOUIPMENT ENCLOSURE      DISCONNECT SWITCH     a = TYPE, REFER TO DISCONNECT SCHEDULE	DUPLEX RECEPTACLE a = CIRCUIT DESIGNATION b = DEVICE TYPE DESIGNATION	CONDUIT TEE	MEDIUM VOLTAGE SINGLE FUSE	・ ア 「USED DISCONNECT SWITCH	G G C C C C C C C C C C C C C
BROUNDING	$\begin{array}{c} \Rightarrow & \\ B \\ a = CIRCUIT DESIGNATION \\ b = DEVICE TYPE DESIGNATION \\ \end{array}$	DUCTBANK     APPROXIMATE DIMENSIONS     SHOWN ON DUCTBANK SCHEDULE	MEDIUM VOLTAGE DOUBLE FUSE	B = TYPE, REFER TO DISCONNECT SCHEDULE b = FUSE RATING	
UNDERGROUND GROUND CABLE     #40 SDBC UNLESS OTHERWISE NOTED     GROUND ROD	a = CIRCUIT DESIGNATION b = DEVICE TYPE DESIGNATION b = DEVICE TYPE DESIGNATION a = CIRCUIT DESIGNATION	CONDUIT SIZE AND CONDUCTORS		FUSE	a = OUANTITY b = RATIO c a d POTENTIAL TRANSFORMER
GROUND ROD AND GROUND WELL 	b = DEVICE TYPE DESIGNATION ⇒ b a = DUPLEX RECEPTACLE w/SPLIT WIRE a = CIRCUIT DESIGNATION b = DEVICE TYPE DESIGNATION	W°C-(3-X (Ø), 1-Y (N) & 1-Z (G)) W°C (WHERE INDICATED): W = CONDUIT TRADE SIZE		COMBINATION STARTER	a = QUANTITY b = RATIO c.d = CONNECTION TYPE SYMBOL SSM SOLID STATE MULTIFUNCTION METER
LUMINAIRES	■ a APPLIANCE RECEPTACLE a = CIRCUIT DESIGNATION b = DEVICE TYPE DESIGNATION	3-X (Ø): 3 = QUANTITY X = SUZE OF CONDUCTORS (Ø) = DESIGNATES PHASE CONDUCTORS		a CIRCUIT BREAKER DISCONNECT, TYPE AS NOTED b = STARTER TYPE b c = NEMA STARTER SIZE c d = OVERLOAD HEATERS	ATP AMPERE TEST POINT
2'. 4'. OR 8' STRIP 2' X 2' LAY-IN TROFFER	WELDING RECEPTACLE     a = CIRCUIT DESIGNATION     b = DISCONNECT TYPE      O      SPECIAL PURPOSE RECEPTACLE	1-Y (N)(WHERE INDICATED): 1 = QUANTITY Y = SIZE OF CONDUCTORS (N) = DESIGNATES NEUTRAL CONDUCTORS		<sup>2</sup>	VTP →→> VOLTAGE TEST POINT
Z' X 4' LAY-IN TROFFER	s = CIRCUIT DESIGNATION     b = DEVICE TYPE DESIGNATION     TVIST LOCK RECEPTACLE     a = AMP RATING	1-Z (G)WHERE INDICATED); 1 = QUANTITY Z = SIZE OF CONDUCTORS (G) = DESIGNATES GROUND CONDUCTORS		VARIABLE FREQUENCY DRIVE	
0-O LUMINAIRE POLE MOUNTED	H <sup>a</sup> <sub>b</sub> TELEPHONE OUTLET a = CIRCUIT DESIGNATION b ≈ MOUNTING HEIGHT	U(3-X (0) & 1-X (G)) U = NUMBER OF PARALLEL RUNS	The second secon	Image: Contractor     a = HMPUT CONTACTOR       b = OUTPUT CONTACTOR       c = BYPASS STARTER       VFD       d = INPUT CIRCUIT BREAKER	
STROBE a = COLOR R = RED G = GREEN A = AMBER	$H_{b}^{a} DATA COMMUNICATIONS OUTLETa = CIRCUIT DESIGNATIONb = MOUNTING HEIGHT$	MULTI CONDUCTOR CABLES			O O LIGHTNING ARRESTER
LUMINAIRE, EMERGENCY BATTERY-POWERED	FIRE ALARM	K (WHERE INDICATED) = NUMBER OF PAIRS 2/2#165 = TWO CONDUCTOR, 16 GAUGE, TWISTED SHIELDED PAIR K/J/C#16S		REDUCED VOLTAGE SOLID STATE STARTER	SPD SURGE PROTECTIVE DEVICE
LUMINAIRE, EMERGENCY/EXIT BATTERY-POWERED	se     SMOKE DETECTOR     a = TYPE     i = IONIZATION     P = PHOTOELECTRIC	K (WHERE INDICATED) = NUMBER OF TRIPLETS 3/C#16S = THREE CONDUCTOR, 16 GAUGE, TWISTED SHIELDED TRIPLETS N/CX		RVSS LBS BYPASS STARTER	DRAWOUT CONNECTION
LUMINAIRE, SURFACE OR PENDANT MOUNTED	d = DUCT DETECTOR FACP FIRE ALARM CONTROL PANEL FIRE ALARM PULL STATION	N = NUMBER OF CONDUCTORS IN THE CABLE X = SIZE OF CONDUCTORS			
	FIRE ALARM HORNISTROBE COMBINATION	FIBER OPTIC CABLES FOIN N = NUMBER OF INDIVIDUAL FIBERS			☆ capacitor ー」」」」 → Battery
UUMINAIRE, EXIT ONE OR TWO FACES AS INDICATED. ARROW POINTS IN DIRECTION OF EGRESS.	FIRE SPRINKLER F = FLOW SWITCH T = TAMPER SWITCH				
PE PHOTOCELL					LOAD BANK
				_	
					DRAFT For Conditional Use Permit SHEET 36
	DN DESCRIPTION	DATE DATE PERFECTION		OF PASA ON DATE SCALE	
90% DESIGN SUBMITTAL NOT FOR CONSTRUCTION		NAME APPROVED:		MARCH 2014         AS SHOWN           *         OBAMN BT         AD           *         OESCRED BT         IRV           *         OESCRED BT         OESCRED BT	PASADENA WATER & POWER         Sheet no         of XX sheets           arroyo seco canyon project Legends         More order 0.3055         Prie number 0.00CE-01
9137A10 9137A10 FiLE NAME: 9137A1000GE01.dgn			- DATE	FELD BOOKS OLC BOOKS APPROVED	APPROVED REVISION (E1757)

	<del></del>	·····			BREVIA	TIONS		POWER DEV
l	A ABS	AMP ABSOLUTE	J	JUNCTION BOX	TACH TB - X	TACHOMETER TERMINAL BLOCK - UNIT X		1 MASTER ELEMENT
	AC ACK	ALTERNATING CURRENT ACKNOWLEDGE	к	KEY INTERLOCK	TC	THERMOCOUPLE / TIME CLOCK / TRAY CABLE		2 TIME-DELAY STARTING OR CLOSING RELAY 3 CHECKING OR INTERLOCKING RELAY
	ACTR	ACTUATOR	KA KV	KEOAMP KEOVOLT	TD TE	TEMPERATURE DETECTOR RELAY TOTALLY ENCLOSED		4 MASTER CONTACTOR 5 STOPPING DEVICE
	AF AFC	AMP FRAME AUTOMATIC FREQUENCY CONTROL	KVA KVAR	KILOVOLT AMPERE KILOVAR (REACTANCE)	TEFC	TOTALLY ENCLOSED FAN COOLED TOTALLY ENCLOSED NON-VENTILATED		6 STARTING CIRCUIT BREAKER
	AIC AM	AMP INTERRUPTING CAPACITY AMMETER	KW	KILOWATT	TERM	TERMINAL		7 ANODE CIRCUIT BREAKER 8 CONTROL POWER DISCONNECTING DEVICE
	ANN	ANNUNCIATOR	KWD KWH	KILOWATT DEMAND KILOWATT HOUR	TJB TM	TERMINAL JUNCTION BOX THERMAL MAGNETIC		9 REVERSING DEVICE 10 UNIT SEQUENCE SWITCH
	ANT APU	ANTENNA AUXILIARY POWER UNIT	r	LONG-TIME	TP TS	TWISTED PAIR TEMPERATURE SWITCH		11 MULTIFUNCTION DEVICE
	ARM	ARMORED CABLE AMMETER SWITCH	Ĺ-В	LINE-BUS	TSIW	TWO SPEED CONSEQUENT POLE, ONE WINDING		12 OVER-SPEED DEVICE 13 SYNCHRONOUS-SPEED DEVICE
	ASYM	ASYMMETRICAL	L-G LA	LINE-GROUND LIGHTNING ARRESTOR	TS2W TSTAT	TWO SPEED SEPARATE WINDING THERMOSTAT		14 UNDER-SPEED DEVICE
	AT ATO	AMP TRIP AUTOMATIC THROW OVER	LBL LC	LABEL LIGHTING CONTACT OR	UHF			16 DATA COMMUNICATIONS DEVICE
	ATP	AMMETER TEST POINT	LCP-X	LOCAL CONTROL PANEL NO, X	UNG	ULTRA HIGH FREQUENCY UNGROUNDED		17 SHUNTING OR DISCHARGE SWITCH 18 ACCELERATING OR DECELERATING DEVICE
	AUTO XFM	AUTOMATIC TRANSFER SWITCH R AUTOMATIC TRANSFORMER	ւն	LEAD-LAG LOAD REACTOR LIGHT POLE	UPS UVR	UNINTERRUPTABLE POWER SUPPLY UNDER VOLTAGE RELAY		19 STARTING-TO-RUNNING TRANSITION CONTACTOR
	AUX AWG	AUXILIARY AMERICAN WIRE GAGE	LP - X LTG	LIGHTING PANEL NO. X	v			20 ELECTRICALLY OPERATED VALVE 21 DISTANCE RELAY
	8	BELL	LV	LOW VOLTAGE	VA	VOLT VOLT AMPERE		22 EQUALIZER CIRCUIT BREAKER 23 TEMPERATURE CONTROL DEVICE
	BAT	BATTERY	LVL	LEVEL	VAR VCP	VARMETER VENDOR CONTROL PANEL		24 VOLTS PER HERTZ RELAY
	BFG BHP	BELOW FINISHED GRADE BRAKE HORSEPOWER	M-X MA	MOTOR CONTROLLER NO. X MILLIAMPERE	VFD VHF	VARIABLE FREQUENCY DRIVE	1	25 SYNCHRONIZING OR SYNCHRONISM-CHECK DEVICE 26 APPARATUS THERMAL DEVICE
	BKR BRF	BREAKER BELOW RAISED FLOOR	MCA	MOTOR CIRCUIT AMPS	VM	VERY HIGH FREQUENCY VOLTMETER		27 UNDERVOLTAGE RELAY 27N GROUND FAULT UNDERVOLTAGE RELAY
			MCC - MCP	X MOTOR CONTROL CENTER NO. X MOTOR CIRCUIT PROTECTOR	VP VR	VAPORPROOF VOLTAGE REGULATOR		28 FLAME DETECTOR
	C CB	CONDUIT / CONTINUOUS LOAD CIRCUIT BREAKER	MH MLO	MANHOLE / MOUNTING HEIGHT MAIN LUGS ONLY	VS VT	VOTAGE SWITCH		29 ISOLATING CONTACTOR 30 ANNUNCIATOR RELAY
	CCTV	CLOSED CIRCUIT TELEVISION	MOD	MOTOR OPERATED DAMPER	VTP	VOLTAGE TRANSFORMER VOLTAGE TEST POINT		31 SEPARATE EXCITATION DEVICE 32 DIRECTIONAL POWER RELAY
	CKT	COUNTER CLOCKWISE CIRCUIT	MOV MRP	METAL OXIDE VARISTOR MOTOR PROTECTION RELAY	w	WATT (WEST		33 POSITION SWITCH
	COAX COM	COAXIAL CABLE COMMON	MS-X MSP	MOTOR STARTER NO. X MOTOR STARTING PANEL	WT	WATER TIGHT		34         MASTER SEQUENCE DEVICE           35         BRUSH-OPERATING OR SLIP-RING SHORT-CIRCUITING DEVICE
	COMM	COMMUNICATION	MTO	MANUAL THROW OVER	WP	WEATHER PROOF		36 POLARITY DEVICE 37 UNDERCURRENT OR UNDERPOWER RELAY
	CPT CS	CONTROL POWER TRANSFORMER CONTROL SWITCH	MTR-X MTS	MOTOR NO. X MANUAL TRANSFER SWITCH	XFMR	TRANSFORMER		38 BEARING PROTECTIVE DEVICE
	CT CV	CURRENT TRANSFORMER CONTROL VALVE	MV	MEGAVOLT				39 MECHANICAL CONDITION MONITOR 40 FIELD RELAY
	čw	CLOCKWISE / COOL WHITE	MVA MVS	MEGAVOLT-AMPERES MEDIUM VOLTAGE SWITCH				41 FIELD CIRCUIT BREAKER 42 RUNNING CIRCUIT BREAKER
1	DC	DIRECT CURRENT	ww	MEGAWATT				43 MANUAL TRANSFER OR SELECTOR DEVICE
	DCS DCU - X	DISTRIBUTED CONTROL SYSTEM DISTRIBUTED CONTROL UNIT NO, X	N NC	NEUTRAL NORMALLY CLOSED				44 UNIT SEQUENCE STARTING RELAY 45 ABNORMAL ATMOSPHERIC CONDITION MONITOR
	DEMO	DEMOLITION	NEC	NATIONAL ELECTRICAL CODE				46 REVERSE-PHASE OR BALANCE CURRENT RELAY 47 PHASE-BALANCE OR PHASE-SEQUENCE VOLTAGE RELAY
	DISC	DISCONNECT SWITCH DEMAND METER	NFC NL	NONMETALLIC FLEXIBLE CONDUIT NIGHT LIGHT				48 INCOMPLETE SEQUENCE RELAY
	DPDT DPST	DOUBLE POLE DOUBLE THROW DOUBLE POLE SINGLE THROW	NO	NORMALLY OPEN				49 MACHINE OR TRANSFORMER THERMAL RELAY 50 INSTANTANEOUS OVERCURRENT RELAY
	DS	DOOR SWITCH	NP	NAMEPLATE				51 AC TIME OVERCURRENT RELAY 52 AC CIRCUIT BREAKER
	E/G	EMERGENCY GENERATOR	о он	OPEN OR OPENED OVERHEAD				53 FIELD EXCITATION RELAY
1	EM EMT	EMERGENCY	OL.	OVERLOAD RELAY				54 TURNING GEAR ENGAGING DEVICE 55 POWER FACTOR RELAY
	ENCL	ELECTRICAL METALLIC TUBING ENCLOSURE	Р	POLE			· · · · · · · · · · · · · · · · · · ·	56 FIELD APPLICATION RELAY
	ENG	ENGINE ELECTRICAL NON-METALLIC TUBING	PA PB	PUBLIC ADDRESS PUSHBUTTON / PULL BOX				57 SHORT-CIRCUITING OR GROUNDING DEVICE 58 RECTIFICATION FAILURE RELAY
	ENT EP	EXPLOSION PROOF	PCS	PVC COATED GALVANIZED STEEL CONDUIT				59 OVERVOLTAGE RELAY 60 VOLTAGE OR CURRENT BALANCE RELAY
	ETM	ELAPSED TIME METER	PCM PE	PROCESS CONTROL MODULE PHOTOCELL				61 DENSITY SWITCH OR SENSOR
	FA FACP	FIRE ALARM FIRE ALARM CONTROL PANEL	PF	POWER FACTOR				62 TIME-DELAY STOPPING OR OPENING RELAY 63 PRESSURE SWITCH
	FDR	FEEDER	PFCC PFR	POWER FACTOR CORRECTION CAPACITOR PHASE FAILURE RELAY				64 GROUND DETECTOR RELAY
	FLA FLX	FULL LOAD AMPS FLEXIBLE CONDUIT	PH PNL	PHASE PANEL				65 GOVERNOR 66 NOTCHING OR JOGGING DEVICE
	FO FRC	FIBER OPTIC FIBERGLASS RIGID CONDUIT	PPX	POWER PANEL NO, X				67 AC DIRECTIONAL OVERCURRENT RELAY 68 BLOCKING OR OUT OF STEP RELAY
	FREQ	FREQUENCY	PRI PT	PRIMARY POTENTIAL TRANSFORMER				69 PERMISSIVE CONTROL DEVICE
:	FU FU	FUSE SW FUSED SWITCH	PVC PWR	POLYVINYL CHLORIDE RIGID PLASTIC CONDI POWER	UIT			70 RHEOSTAT 71 LIQUID LEVEL SWITCH
	FVNR FVR	FULL VOLTAGE NON-REVERSING						72 DC CIRCUIT BREAKER 73 LOAD-RESISTOR CONTACTOR
	FWD	FULL VOLTAGE REVERSING FORWARD	RAC RECPT	RIGID ALUMINUM CONDUIT RECEPTACLE				74 ALARM RELAY
	G	GROUND / EQUIPMENT GROUND / GROUND FAULT	REV	REVERSE RADIO FREQUENCY				75 POSITION CHANGING MECHANISM 76 DC OVERCURRENT RELAY
	GEN	GENERATOR GALVANIZED STEEL RIGID CONDUIT	RMS	ROOT MEAN SQUARED				77 TELEMETERING DEVICE 78 PHASE-ANGLE MEASURING RELAY
	GFCI	GROUND FAULT CIRCUIT INTERRUPTER (RECEPTACI	RVAT LE) RVNR	REDUCED VOLTAGE AUTO TRANSFORMER REDUCED VOLTAGE NON-REVERSING				79 AC RECLOSING RELAY
	GFI GFR	GROUND FAULT INTERRUPTER (BREAKER) GROUND FAULT RELAY	RVSS	REDUCED VOLTAGE SOLID STATE				80 FLOW SWITCH 81 FREQUENCY RELAY
		,	s	SHIELD / SHORT-TIME				62 DC LOAD MEASURING RECLOSING RELAY
1	H HF	HOT-LEG HIGH FREQUENCY	SA SC	SURGE ARRESTER SHORT CIRCUIT				
	HP HPS	HORSEPOWER HIGH PRESSURE SODIUM	SDBC	SOFT DRAWN BARE COPPER				
1	HR	HOUR	SFL SLT	SUB FEED LUGS SEALTIGHT LIQUIDTIGHT FLEXIBLE CONDUIT	r			
	HSTAT HV	HUMIDISTAT HIGH VOLTAGE	SM	SURFACE MOUNTED				
	HVAC	HEATING/VENTILATION/AIR CONDITIONING HERTZ	SPD	SURGE PROTECTIVE DEVICE				
	144		SPDT SPST	SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW				
1	I IC	INSTANTANEOUS LOAD INTERRUPTING CAPACITY	SPKR SS	SPEAKER SOLID STATE				
5 <b> </b>	IJB	INSTRUMENT JUNCTION BOX	STB	SHORTING TERMINAL BLOCK				
	IMC INST	INTERMEDIATE METAL CONDUIT INSTANTANEOUS	SW SWBD	SWITCH SWITCHBOARD				
1	INT INTERCOM	INTERLOCK	SWGR SYM					
			DIM	S I MIME I RIGHL				
21	NOTES:							
	1. REFER TO	SPECIFICATIONS OTHER DRAWINGS FOR ADDITIONAL	ABBREVIATI	IONS.				
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		REVIS			·	APPROVED BY:		D.S206 TO 209
NO.		DESCRIPTION DATE	NO.	DESCRIPTION		DATE SUPPOPESSIONAL PE	_	OF PASA ON DATE SCALE
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### R DEVICE FUNCTION NUMBERS

- 83
   AUTOMATIC SELECTIVE CONTROL OR TRANSFER RELAY

   40
   OPERATING MECHANISM

   85
   PILOT COMMUNICATIONS, CARRIER OR PILOT-WIRE RELAY

   86
   PILOT COMMUNICATIONS, CARRIER OR PILOT-WIRE RELAY

   87
   DIFFERENTIAL PROTECTIVE RELAY

   88
   AUXILARY MOTOR OR MOTOR GENERATOR

   89
   LINE SWITCH

   90
   REGULATING DEVICE

   91
   VOLTAGE DIRECTIONAL RELAY

   92
   VOLTAGE DIRECTIONAL RELAY

   93
   FIELD-CHANGING CONTACTOR

   94
   TRIPPING OR TRIP-FREE RELAY

COMMONLY USED SUFFIX LETTERS APPLIED TO POWER DEVICE FUNCTION NUMBERS

- A ALARM ONLY B BUS PROTECTION G GROUND FAULT PROTECTION (RELAY CT IN A SYSTEM NEUTRAL CIRCUIT OR GENERATOR PROTECTION) (RELAY CT IN A SYSTEM NEUTRAL CIRCUIT OR GENERATOR PROTECTION) (RELAY CT IN A SYSTEM NEUTRAL CIRCUIT OR GENERATOR PROTECTION) L LINE PROTECTION M MOTOR PROTECTION M GROUND FAULT PROTECTION (RELAY COIL CONNECTED IN RESIDUAL CT CIRCUIT) T TRANSFORMER PROTECTION V VOLTAGE P PHASE PROTECTION

### ABBREVIATIONS

AFD CLK DDR DFR ENV HIZ HMI HST LGC MET PDC PMU PQM	ARC FLASH DETECTOR - CLOCK OR TIMING SOURCE - DIGITAL FAULT RECORDER - DIGITAL FAULT RECORDER - DIGITAL FAULT RECORDER - ENVIRONMENTAL DATA - HIGH IMPEDANCE FAULT DETECTOR - HUMAN MACHINE INTERFACE - HUMAN MACHINE INTERFACE - SCHEME LOGIC - SUBSTATION METERING - PHASOR DATA CONCENTRATOR - PHASOR MEASUREMENT UNIT - POWER GUALITY MONITOR
LGC .	SCHEME LOGIC
MET ·	SUBSTATION METERING
	- REMOTE I/O DEVICE
	DATA CONCENTRATOR
	SEQUENCE OF EVENTS RECORDER
TCM ·	TRIP CIRCUIT MONITOR

MARCH 2014

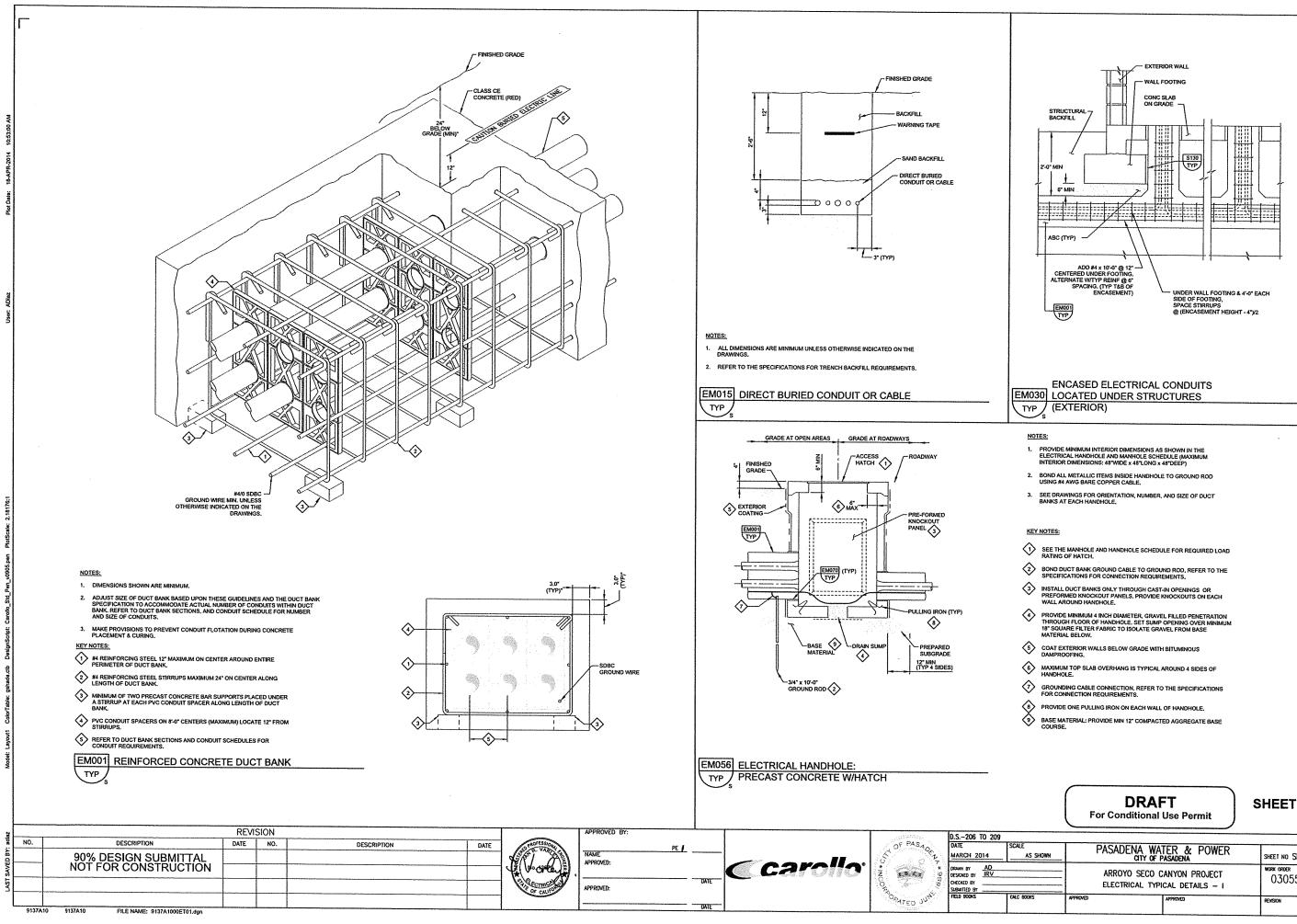
DRAWN BY AD DESIGNED BY IRV CHECKED BY SUBMITTED BY FELD BOOKS

DRAFT For Conditional Use Permit

## SHEET 37

X-XX

SCALE AS SHOWN	PASADENA WA	SHEET NO OF XX SHEETS		
	ARROYO SECO CANYON PROJECT ABBREVIATIONS		WORK ORDER 03055	FILE HUMBER 00GE-02 (E-1757)
CALC BOOKS	APPROVED	APPROVED	REVISION	

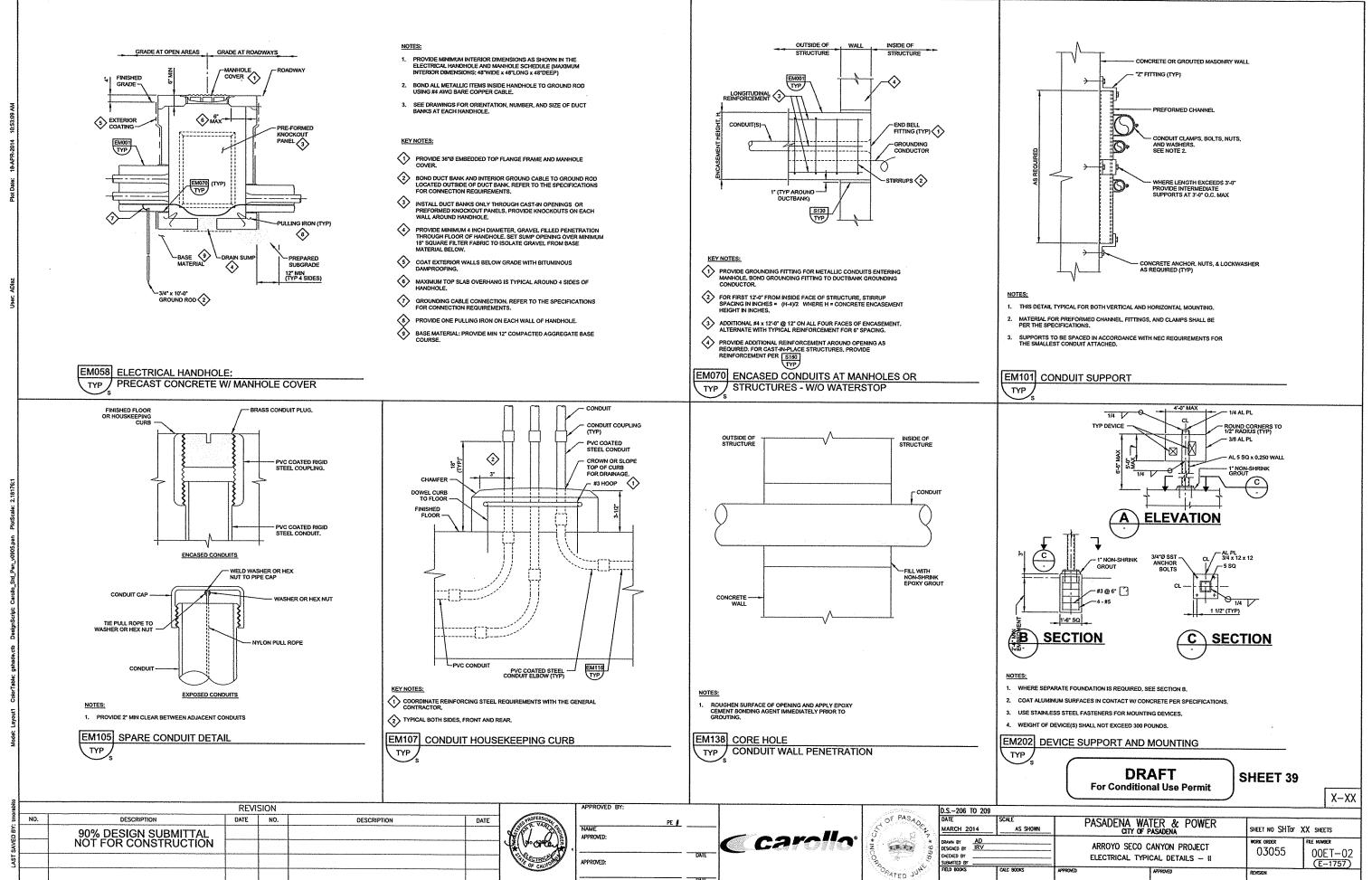


	DRAFT For Conditional Use Permit	SHEET 38
5 SHOWN	PASADENA WATER & POWER	SHEET NO SHTOF XX

•	PASADENA WA	SHEET NO SHTOF )	X SHEETS	
	ARROYO SECO CANYON PROJECT ELECTRICAL TYPICAL DETAILS - I		work order 03055	пе нижее 00ЕТ-01 (Е-1757)
	APPROVED	APPROVED	REVISION	

X--XX

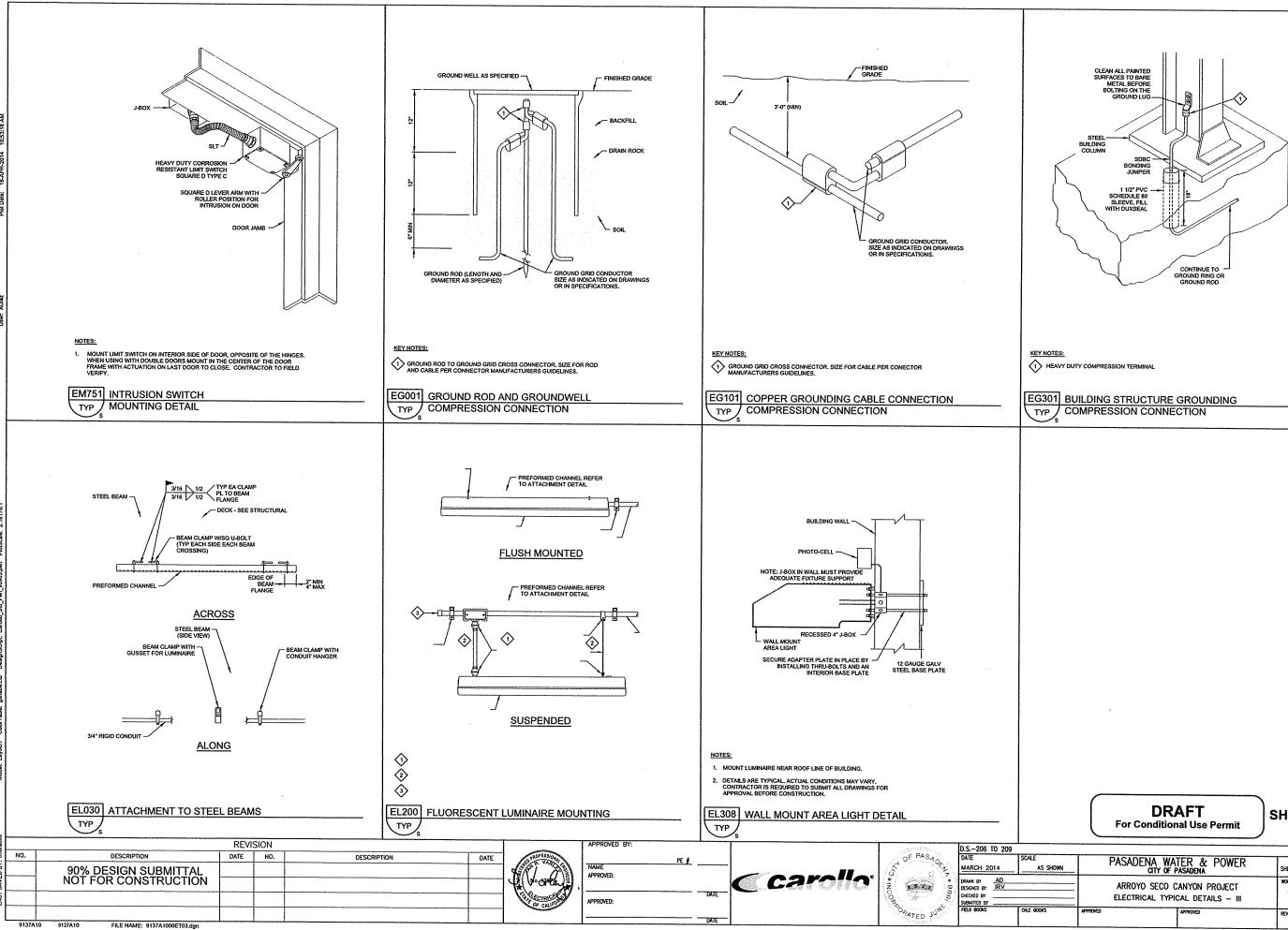
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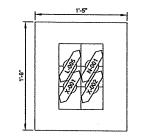
37A10 FILE NAME: 9137A1000ET02.don

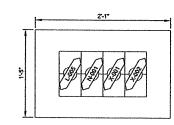
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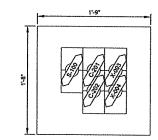
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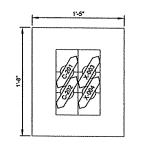
		AFT nal Use Permit	SHEET 40	X-XX
IOWN	PASADENA WA	TER & POWER pasadena	SHEET NO SHTOF )	(X SHEETS
	ELECTRICAL TYPI	CANYON PROJECT CAL DETAILS — III	work order 03055	пе клався 00ET-03 (E-1757)
	APPROVED	APPROVED	REVISION	







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DESCRIPTION

FILE NAME: 9137A1002E04.dgn

NO.

9137A10

9137A10

REVISION DATE NO. DESCRIPTION 90% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

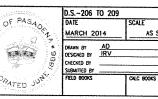
DATE	SP PROFESSION
	A CONTRACTOR
	V. Vorte
	Same of St
	STATE OF CALIFORN
	Concession of the second second

APPROVED

NAME APPROVED:

APPROVED:

BY:			
PE /			
	DATE	( ca	rollo



ATED.

GENERAL NOTES:

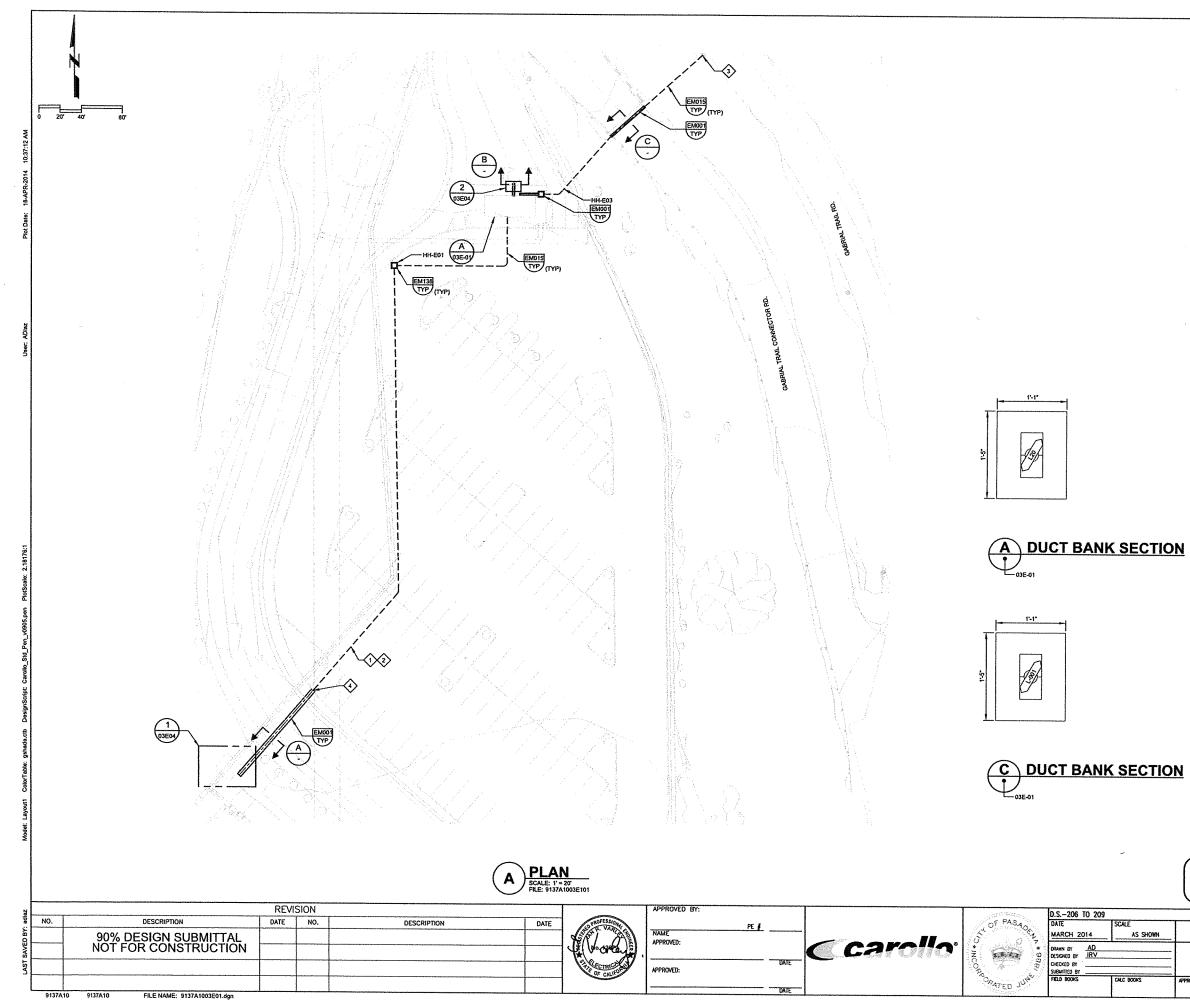
1. CONSTRUCT DUCTBANK IN ACCORDANCE WITH EM001 UNLESS OTHERWISE INDICATED.

DRAFT For Conditional Use Permit

SHEET 41

X-XX

SHOWN	PASADENA WA	TER & POWER Pasadena	SHEET NO OF )	X SHEETS
	AREA 2 - 1	CANYON PROJECT DUCT BANKS	WORK ORDER 03055	FILE HUMBER 02E-04 (E-1757)
	APPROVED	APPROVED	REVISION	

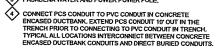


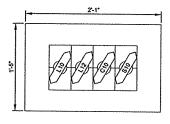
KEY NOTES:

ROUTE CONDUIT IN COMMON TRENCH WITH MAIN PIPING TO MAGMETER. PER DETAIL EMOIS.



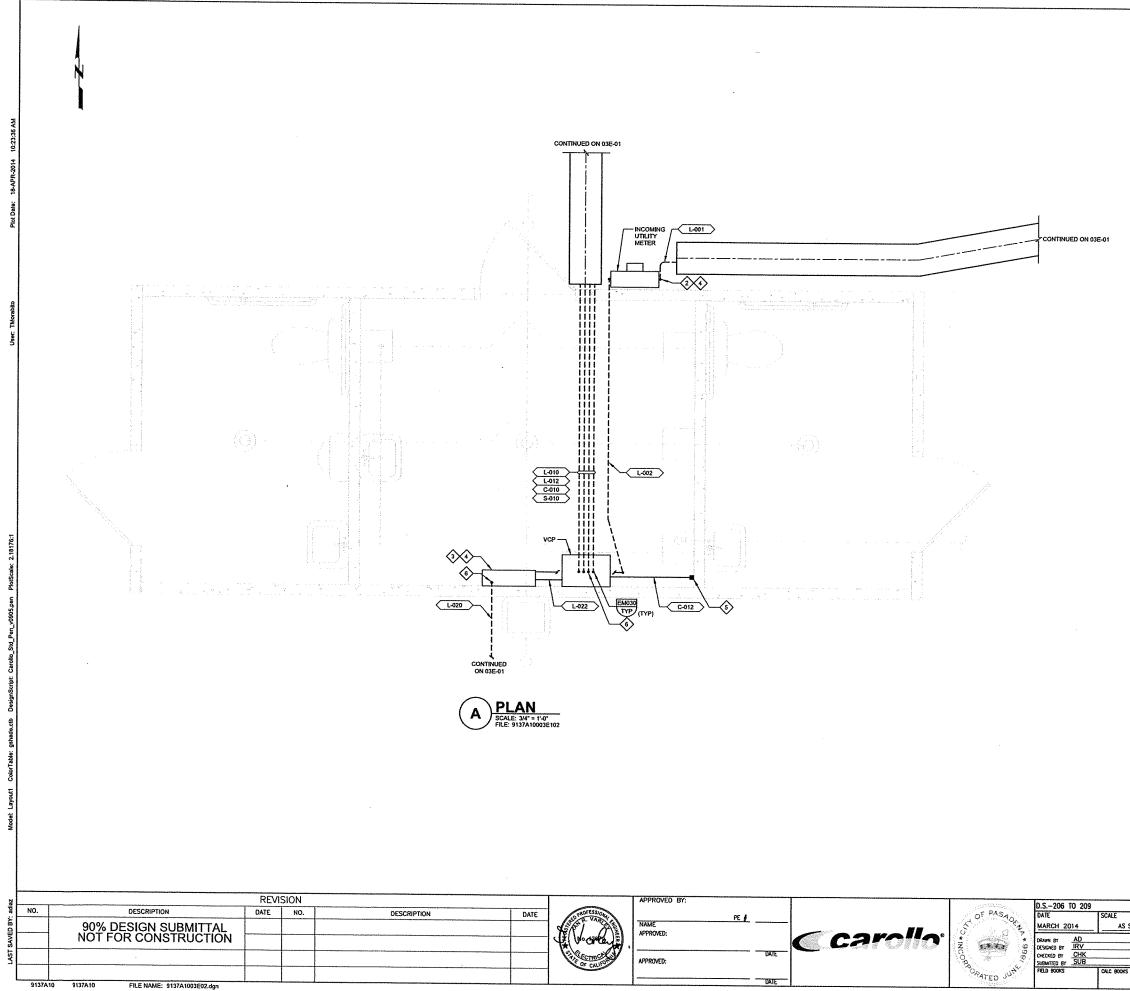
REFERENCE DRAWING 03C-03 FOR AREA 3A PIPING PLAN. 3 PASADENA WATER AND POWER POWER POLE,





# B DUCT BANK SECTION

	DRA For Conditiona		S	HEET 42	X-XX
SHOWN	PASADENA WA	TER & POWER PASADENA		SHEET NO OF >	X SHEETS
	AREA 3 - ELECT	CANYON PROJECT TRICAL SITE PLAN		WORK ORDER 03055	ле имаек 03E-01 (E-1757)
1	APPROVED	APPRONED		REVISION	





2 SIMILAR TO TYPICAL DETAIL EM032. TOILET LIGHTING AND POWER PANEL PROVIDED BY TOILET VENDOR PANEL SCHEDULE PROVIDED BY VENDOR. ALL ELECTRICAL CONDUIT AND WIRE INSIDE TOILET PROVIDED BY VENDOR WITH EXCEPTION OF ITEMS NOTED ON THE CONTRACT DOCUMENTS (THIS DRAWING).

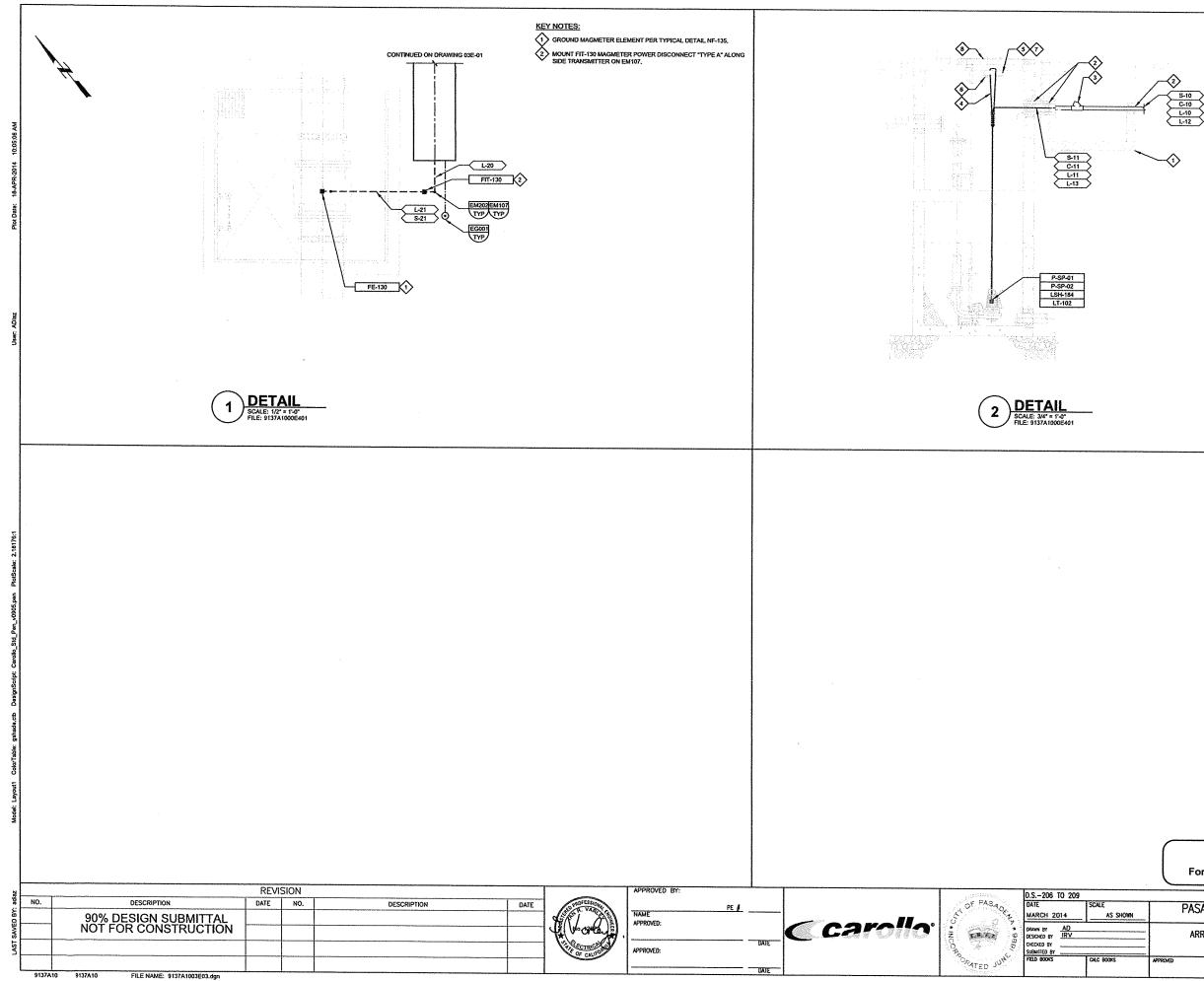


GROUND PER UTILITY STANDARDS.

RESTROOM WATER SHUTOFF VALVE ACTUATOR PRECISE LOCATION TO BE DETERMINED IN THE FIELD.

FOR PRECISE LOCATION OF CONDUIT STUB UPS COORDINATE WITH TOILET VENDOR.

		DRAFT ditional Use Permit	SHEET 43	
			/	X-XX
SHOWN	PASADE	NA WATER & POWER CITY OF PASADENA	SHEET NO SHTOF XX	SHEETS
	-	SECO CANYON PROJECT AREA 3 - TOILET	NORK ORDER P	03E-02 (E-1757)
	APPROVED	APPROVED	REVISION	



### KEY NOTES:

HANDHOLE HH-E02.

- CORE DRILL WALL OF WET WELL AND SEAL PER DETAIL EM138. PRECISE LOCATION TO BE DETERMINED IN FIELD.
- 3 INSTALL CONDUIT SEALS FOR DIV 1 BOUNDARY.
- INSTALL KELLUMS PULLING GRIP CABLE HANGER TO SIDE OF ACCESS COVER WITHIN 1' DISTANCE.

5 P1000 UNISTRUT.

- 6 SUPPORT BOLTS (AS NEEDED).
- SIMILAR TO TYPICAL DETAIL EM101.
- 8 WETWELL ACCESS COVER.

			AFT nal Use Permit	SHI	EET 44		
		For Condition	ai Use Permit	)			X-XX
HOWN		PASADENA WA	TER & POWER PASADENA	Shei	et No of	XX SHEE	ITS
			CANYON PROJECT - Details		( order )3055	FRE MUNE 03 (E-	E-03 1757
	APPROVED		APPROVED	REVIS	Son		

CON Arroyo S City of F	Seco Ca	anyon			.E AR	KEA		^	4/17/14	CON Arroyo City of I	Seco C	anyor			E AR	EA	X	*	4/17/1
c	ONDUIT			CONDUCT	ORS		GRO	UND		-	ONDUIT		Τ	CONDUCT	ORS		GROL	JND	
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION CONNECTING SEGMENTS	NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION CONNECT
C-010	03E-01	r	4	MFR	CABLE				FR: VCP TO: HH-E02 4 MFR >> CNTRL:LSHI-VLSH-101, LSU/LSLL-101	L-022	03E-02	0.75*	2	#6	XHHW-2	1	#10	XHHW-2	FR:         TOILET POWER PANEL           TO:         VCP           2         #5         >> POWER: VCP
C-011	03E-01	2*	4	MFR	CABLE				FR: HH-E02 TO: LIFT STATION WETWELL 4 MFR >> CNTRL: LSH-M.SH-101.LSLA.SI.L-101	L-100	02E-02	0.75*	2	#12	XHHW-2	1	#12	XHHW-2	FR: LP-B TO: PLC CABINET
C-012	03E-02	0.75*	2	<i>#</i> 14	XHHW-2	1	#14	XHHW-2	FR:         VCP           TO:         WATER SHUT OFF VALVE           2         #14         >> CONTROL: SHUT OFF VALVE	L-101	02E-03	0.75*	2	#8	XHHW-2	1	#10	XHHW-2	FR: LP-B TO: AIR COMPRESSOR
C-101	02E-03	0.75*	2	#14	XHHW-2	1	#14	XHHW-2		L-102	02-03	0.75*	2	#10	XHHW-2	1	#10	XHHW-2	TO: HYDRAULIC UNIT STARTER
C-102	02E-03	0.75	2	#14	XHHW-2	1	#14	XHHW-2		L-103	02E-03	0.75*	2	#12	XHHW-2	1	#12	XHHW-2	TO: APC CONTROL CABINET
C-103	02E-03	0.75*	2	#14	XHHW-2	1	#14	XHHW-2		N-001	02E-01	2*	1	PULL	ROPE				2         #12         >> POWER: APC CONTROL CABINET           FR:         TRAVELING SCREEN BUILDING           TO:         AREA 2 SERVICE BUILDING VIA MH-10, 118, 12           1         PULL         >> DATA: AREA PHASE 2 BUILDING
C-104	02E-03	0.75*	2	#14	XHHW-2	1	#14	XHHW-2		S-010	03E-01 03E-02	2*	1	MFR	CABLE				1         PULL         >> DATA: AREA PHASE 2 BUILDING           FR:         VCP           TO:         HH-S01           1         MFR         >> SIGNAL: LT-102
C-201	02-E02	2*	2	#12	XHHW-2	1	#12	XHHW-2		S-011	03E-04	2*	1	MFR	CABLE				Improvement         Storeduct 1-102           FR:         HH-S01           TO:         LIFT STATION WETWELL           1         MFR         >> SIGNAL: L1-102
C-202	02-E02	2"	2	#12	XHHW-2	1	#12	XHHW-2	FR:         PHASE 2 SERVICE BUILDING           TO:         RN-002 VIA HH-E13           2         #12         >> CONTROL: RM-002	S-021	03-E04	2*	1	MFR	CABLE				FR:         FIT-130           TO:         FE-130           1         MFR         >> SIGNAL: FE-130
L-001	03E-01	2*	3	#1/0	XHHW-2				FR:         UTILITY POWER POLE ON SAN GABRIAL TRAIL RD           TO:         UTILITY METER CAN AT TOILET VIA HH-E03           3         #1/0         >> UTILITY: 220V, 1PHASE POWER	S-100	02-E02	2"	1	MFR	CABLE				FR:         PHASE 2 SERVICE BUILDING           TO:         LEVEL TRANSMITTER VIA HH-S02           1         MFR         >> SIGNAL: LEVEL TRANSMITTER
L-002	03E-02	2*	3	#1/0	XHHW-2				FR:         UTILITY METER CANAT TOILET           TO:         TOILET POWER PANEL           3 #1/0         >> UTILITY: 220V, 1PHASE POWER	X-001	02E-01	2*	1	PULL	ROPE				FR:         TRAVELING SCREEN BUILDING           TO:         PHASE 2 SERVICE BUILDING VIA MH-E10,11AND 12           1         PULL         >> SPARE CONDUIT
L-003	02E-04	2*	3	#4/0	XHHW-2				FR: UTILITY POWER POLE ON SAN GABRIAL TRAIL RD TO: UTILITY METER CAN ON TRAVELLING SCREEN BUILDING 3 #4/0 >> UTILITY: 220V, 1PHASE POWER	X-002	02E-01	2*	1	PULL	ROPE				FR: TRAVELING SCREEN BUILDING TO: PHASE 2 SERVICE BUILDING VIA MH-E10,11AND 12 1 PULL >> SPARE CONDUIT
L-004	02E-04	2	3	N4/0	XHHW-2				FR: TRAVELING SCREEN BUILDING METER CAN TO: TRAVELING SCREEN BUILDING POWER PANEL 3 \$440 >> UTILITY: 220V, 1PHASE POWER	X-003	02-E02	2*	1	PULL	ROPE				FR:         PHASE 2 SERVICE BUILDING           TO:         EAST SIDE OF DAM VIA HH-E-13           1         PULL         >> SPARE CONDUIT
L-005	02E-04	2*	3	#1/0	XHHW-2	1	#8	XHHW-2	FR: TRAVELING SCREEN BUILDING POWER PANEL TO: P/BOX AREA 2 SERVICE BUILDING VIA MH-E10,11 & 12 3 #1/0 >> POWER: AREA 2 SERVICE BLDG	X-004	02-E02	2*	1	PULL	ROPE				FR: PHASE 2 SERVICE BUILDING TO: WEST SIDE OF DAM VIA HH-E13 1 PULL >> SPARE CONDUIT
L-006	02E-03	1.5*	3	#1/0	XHHW-2	1	#8	XHHW-2	FR: P/BOX AREA 2 SERVICE BUILDING VIA MH-E10,118 12 TO: LP-B 3 #1/0 >> POWER:AREA 2 SERVICE BLDG	L	J	I	I		EN		OF (	CON	DUIT SCHEDULE
L-010	03E-01 03E-02	z	1	MFR	CABLE	1			FR: VCP TO: HH-E02 1 MFR >> POWER: PMP-110										
L-011	03E-04	2	1	MFR	CABLE				FR: HH-E02 TO: LIFT STATION WETWELL 1 MFR >> POWER:PMP-110										
L-012	03E-01 03E-12	2*	1	MFR 1	CABLE				FR: VCP TO: HH-E02 1 MFR >> POWER:PMP-110										
L-013	03-E04		1	MFR	CABLE				FR: HH-E02 TO: LIFT STATION WETWELL 1 MFR >> POWER:PMP-120										
L-020	03E-01	2*	2	#12	XHHW-2	1	#12		FR: VCP TO: FIT-130 VIA HH-E01& DISCONNECT 2 #12 >> POWER: FIT-130										
L-021	03-E04	2*	1	MFR	CABLE	1	<u> </u>		FR: FTT-130 TO: FE-130	1									

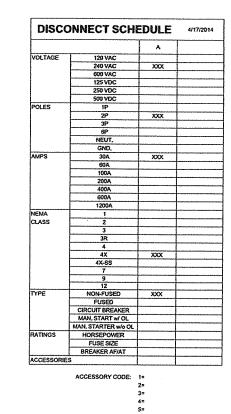
8			REV	ISION				APPROVED BY:	1		D.S206 TO 209	
adi	NO.	DESCRIPTION	DATE	NO.	DESCRIPTION	DATE	EP PROFESSION	PF <b>J</b>		OF PASAD		SCALE
64		90% DESIGN SUBMITTAL						NAME		S Str	MARCH 2014	AS
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		DRAFT For Conditional Use Permit	) s	HEET 45	X-XX
SHOWN		PASADENA WATER & POWER		SHEET NO SHTOF	XX sheets
		ARROYO SECO CANYON PROJECT CONDUIT SCHEDULES		WORK ORDER 03055	PLE NUMBER 04E-01 (E-1757)
s	APPROVED	APPROVED		REVISION	

,

TAG NO		IMUM INTER NSIONS (IN		CONSTRUCTION	TYPICAL	SURFACE	COMMENTS	
	WIDTH	LENGTH	DEPTH		DETAIL	LOADING	Comments	
HH-E01	24	24	36	PRE CAST	EM056	ROADWAY		
HH-E02	24	36	36	PRECAST	EM056	ROADWAY	ALONGSIDE LIFT PUMP PIT FOR SEAL OFFS	
HH-E03	24	24	36	PRE-CAST	EM056	ROADWAY	MAIN INCOMING UTILITY POWER CABLE	
MH-E10	24	24	36	PRE CAST	EM058	ROADWAY	ALONGSIDE ROADWAY PHASE 2	
MH-E11	24	24	36	PRE CAST	EM058	ROADWAY	ALONGSIDE ROADWAY PHASE 2	
MH-E12	24	24	36	PRECAST	EM058	ROADWAY	ALONGSIDE ROADWAY PHASE 2	
HH-E13	36	36	36	PRECAST	EM056	ROADWAY	ALONGSIDE INTAKE VALVE AREA	
HH-S02	24	36	36	PRE CAST	EM056	ROADWAY	ALONGSIDE INTAKE VALVE AREA	

				PAN	VEL	LP-A			4/9/2014
						······			
LOCATION: TRAVELLING SCREEN BUILDING	NEMA:	1		PHA	WEI	GHTED VA	18750		
VOLTS: 240 / 120	FEED:	BOTTOM		PHB	WEI	GHTED VA	18750		
PHASE & WIRE: 1PH 3W	MTG.	SURFACE							
INTERRUPT: 18 KAIC	BUS RATING:	225							
OPTIONS: SPD	MAIN:	CB		EQU	IP SL	ZING VA	37500		
	MAIN RATING	225 AF 225 AT		PAN	EL AN	MPS	156.3		
I/C/F DESCRIPTION	LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION	VC/F
C LP-B (PHASE 2 SERVICE BUILDING)	7500	100A-2P	1	A	2	100A-2P	7500	TRAVELING SCREEN BLDG LIGHTING PANEL	C
<u> </u>	7500		3	B	4		7500	(FUTURE LOAD)	c
SPACE			5	A	6		1	SPACE	
SPACE			7	B	8		1	SPACE	
SPACE			9	A	10		1	SPACE	
SPACE			11	B	12		1	SPACE	



					PAN	IEL	LP-B			4/9/2014
OCATION:	PHASE 2 SERVICE BUILDING	NEMA:	4			14/61	GHTED VA	5985		
/OLTS:	240 / 120		BOTTOM				GHTED VA	5900		
PHASE & WIRE:			SURFACE		rnb	AAEU	GRIEDVA	2900	•	
NTERRUPT:	18 KAIC	BUS RATING:								
		MAIN:	CB		EQU	IP SIZ	ZING VA	11970		
		MAIN RATING	100 AF 100 AT		PAN	EL AN	MPS .	49.9	•	
I/C/F DESCRIP		LOAD (VA)	BKR	CIR	ø	CIR	BKR	LOAD (VA)	DESCRIPTION	I/C/
I RECEPTA		360	20A/1P	1	A	2	40A/2P	2500	AIR COMPRESSOR	c
C LIGHTING		360	20A/1P	3	B	4		2500	1	c
	TROLS CABINET	500	20A/1P	5	A	6	30A/2P	1500	HYDRAULIC POWER UNIT	c
C PLC		360	20A/1P	7	B	8		1500		Ċ
SPARE			20A/1P	9	A	10	20A/1P		SPARE	
SPARE			20A/1P	11	B	12	20A/1P		SPARE	
SPARE			20A/1P	13	A	14	20A/1P		SPARE	
SPACE				15	B	16			SPACE	
SPACE				17	A	18			SPACE	

	LUMI	NAIRE SCHE	EDULE				4/11/2014	4
ITEM	DESCRIPTION	MOUNTING	1	LAMP	T	LUMINAIRE SPECIFICATIONS		
		METHOD	QUANTITY	TYPE	MANUFACTURER	CATALOG	VOLTS	VA
A	CEILING MOUNTED 2:x4' FLUORESCENT LIGHT FIXTURE, ELECTRONIC BALLAST, WITH INTEGRAL MOTION SENSOR. SUITABLE FOR WET LOCATIONS	CEILING MOUNTED	1	1-F32W/T8 FLUORESCANT	HOLOPHANE LIGHTING	EMS SERIES	120	400
B	WALL MOUNT LED FIXTURE, ONE LIGHT ENGINE, TYPE III MEDIUM LIGHT DISTRIBUTION, EPOXY POWDER COAT FINISH COLOR PER CLIENT, NEMA 4X, COMPLETE WITH INTEGRAL MOTION/AMBIANT LIGHT SENSOR, VANDAL RESISTANT, CALGREEN COMPLIANT,	WALL MOUNT		LED	COOPER LIGHTING	FAIL SAFE SERIES	120	400

		REV	ISION				APPROVED BY:			0.S206 TO 209	
ĔΝΟ.	DESCRIPTION	DATE	NO.	DESCRIPTION	DATE	SPROFESSIONUL	PE /		OF PASAD	DATE	SCALE
AST SAVED BY	90% DESIGN SUBMITTAL NOT FOR CONSTRUCTION					(Vora)	NAME APPROVED:	Carollo		MARCH 2014 DRAWN BY AD DESIGNED BY IRV CHECKED BY CHK SUBMITTED BY SUB	AS SHO
	17A10 9137A10 FiLE NAME: 9137A1004E02.dgn					C OF CALIFOR	DATE		OPATED JUNE		CALC BOOKS

		AFT	SHEET 46	
	For Condition	al Use Permit		X-XX
HOWN	PASADENA WA	TER & POWER pasadena	SHEET NO SHTOF X	X SHEETS
	SCHE	Canyon Project Dules	WORK ORDER 03055	FILE HUNGER 04E-02 (E-1757)
	APPROVED	APPROVED	REVISION	

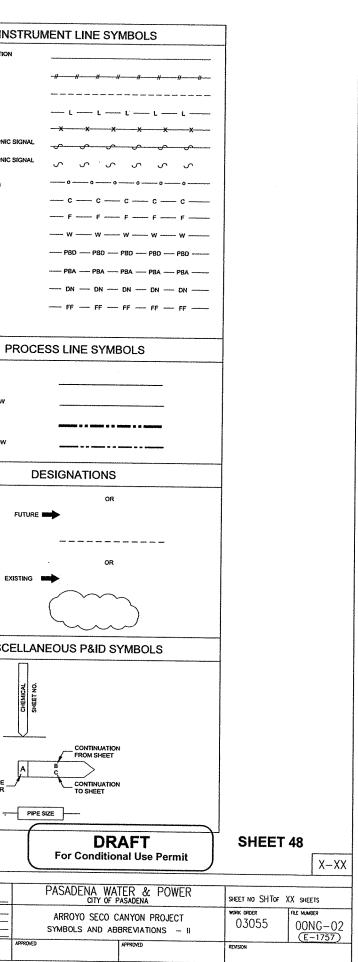
SYMBOL	DRAWING VISIBLE FIELDS	FIELD - 1	FIELD-2	FIELD - 3	FIELD - 4	FiELD - 5	FIELD - 6	SYMBOL	DRAWING VISIBLE FIELDS	FIELD - 1	FIELD - 2	FIELD - 3	FIELD - 4	FIELD - 5	FIELD - 6	
A SYSTEM NTOR INTERFACE NAL	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - DESCRIPTION 5 - DESCRIPTION 6 - NOT IN PROJECT	REFER	3 AL NU SP		DESCRIPTION	DESCRIPTION	e - existing F - future	INSTRUMENT PRIMARY ELEMENT	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - LOCATION 6 - NOT IN PROJECT	REFER	REFER			AREA NO. BUILDING NO. ROOM NO.	E - EXISTING F - FUTURE	
MRED VO	S 1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 3 4- DESCRIPTION	REFER	REFER AI 3 DO DO	<ul> <li>DISCRETE INPUT</li> </ul>	DESCRIPTION	PAC - PROGRAMMABLE AUTOMATION CONTROLLER NO.	e - Existing F - Future	INSTRUMENT/CONTROL ELEMENT PRIMARY FUNCTION OPERATOR ACCESSIBLE 6 1 2 5	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - DESCRIPTION 6 - NOT IN PROJECT	REFER	REFER			DESCRIPTION	E - EXISTING F - FUTURE	
2	5- LOCATION 6- NOT IN PROJECT	n Stadiona China a canada a c		C - HIGH SPEED COUNTER INPU - RTD INPUT	n a tha bhaile bhailte an	PLC - PROGRAMMABLE LOGIC CONTROLLER NO. RIO - REMOTE IO VCP - VENDOR CONTROL PANEL NO.	a native source in the second and th	INSTRUMENT/CONTROL ELEMENT AUXILIARY FUNCTION OPERATOR ACCESSIBLE 6 1 2	1 - TAG 2 - LOOP NUMBER 3 - FUNCTION 4 - FURNISHED BY 5 - DESCRIPTION 6 - NOT IN PROJECT	Reference of the second se	REFER	DESCRIPTION		DESCRIPTION	E - EXISTING F - FUTURE	
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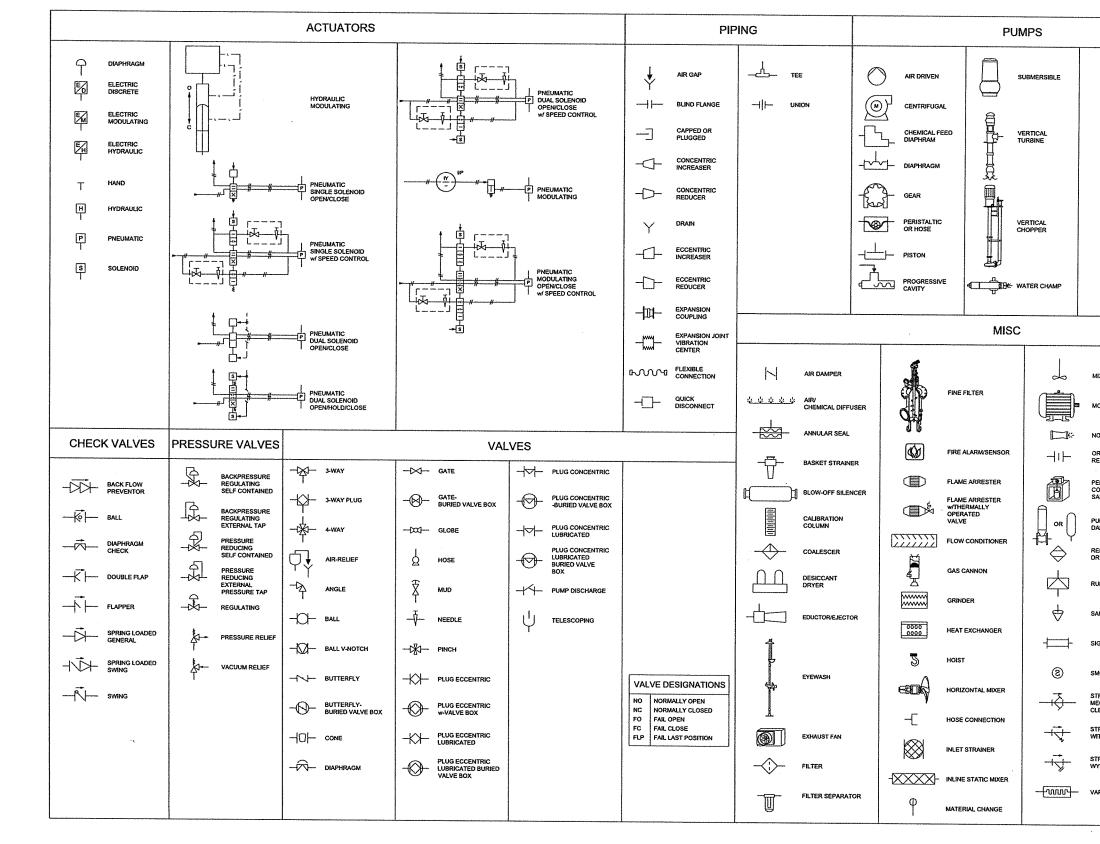
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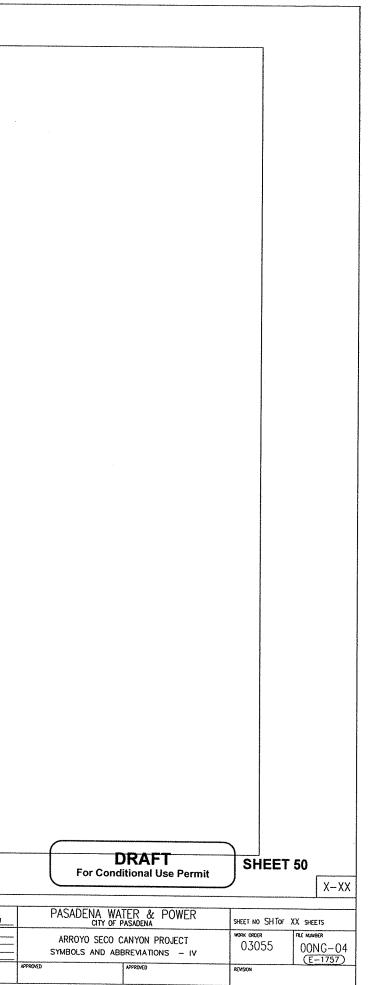
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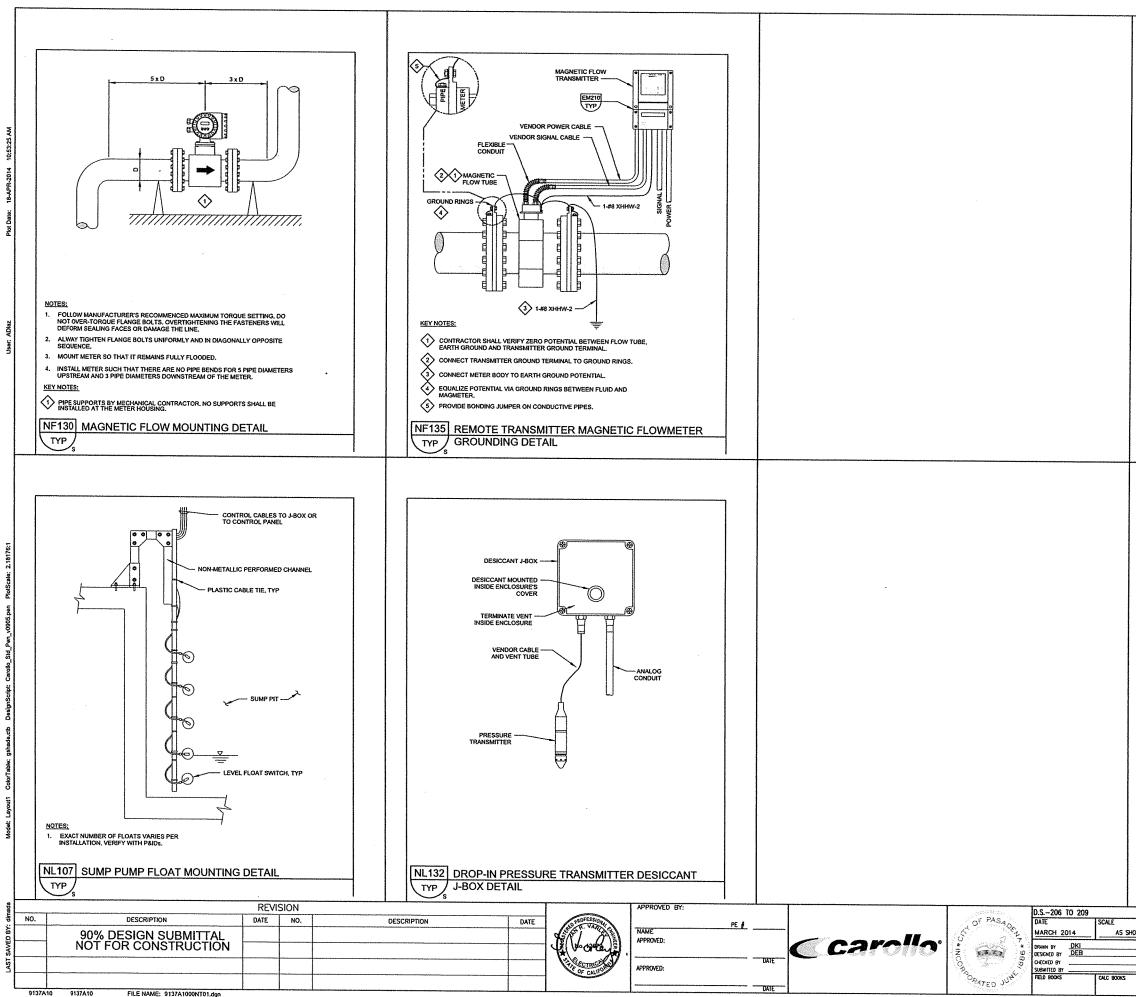
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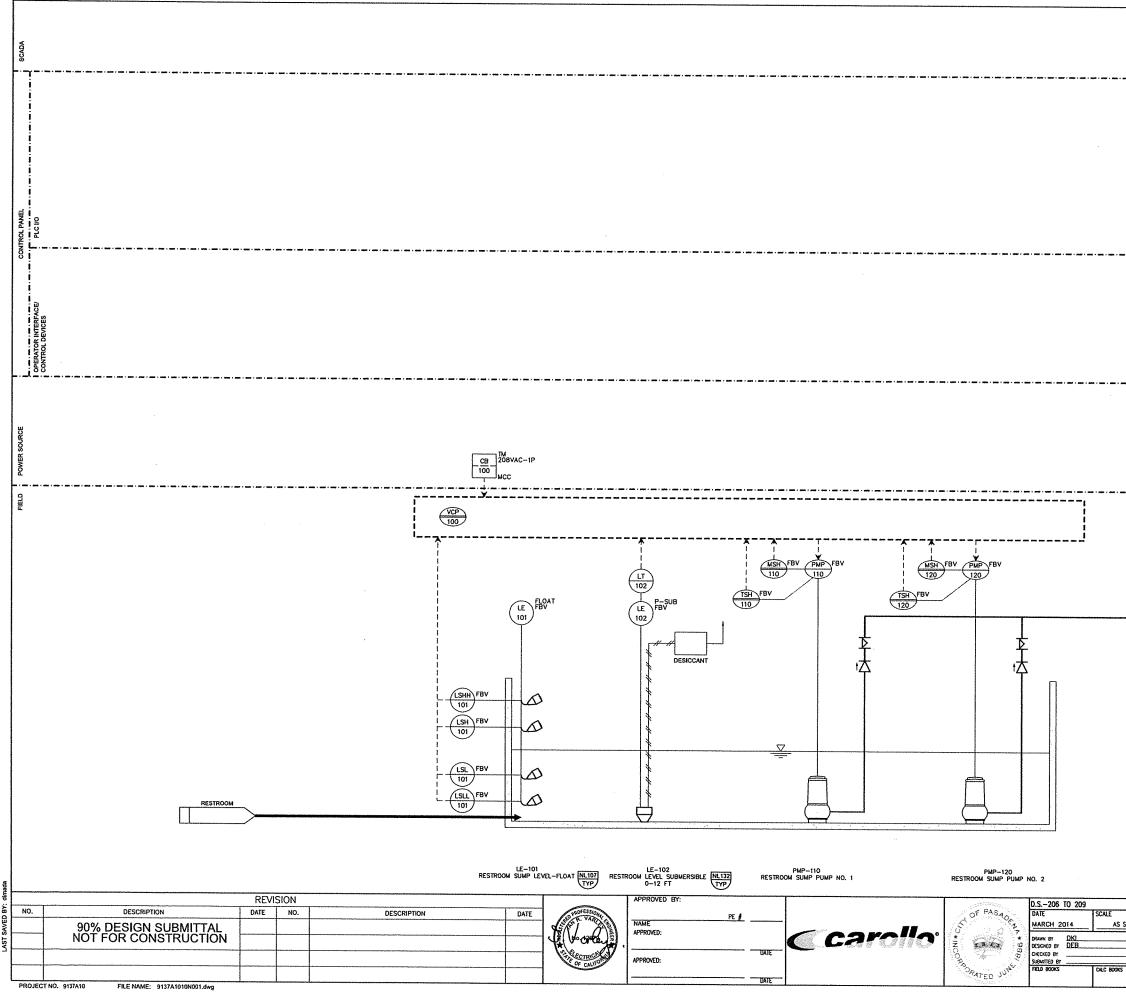
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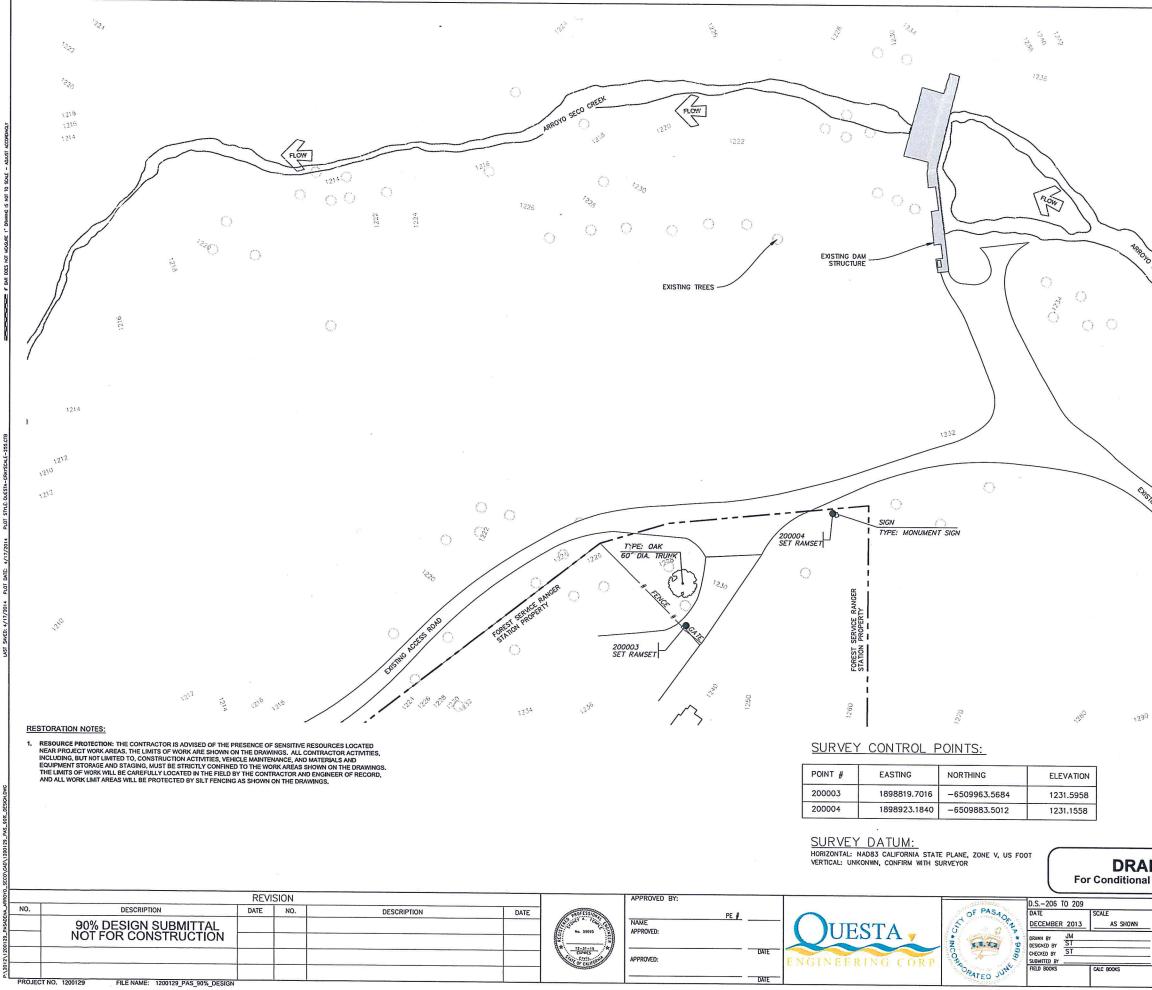




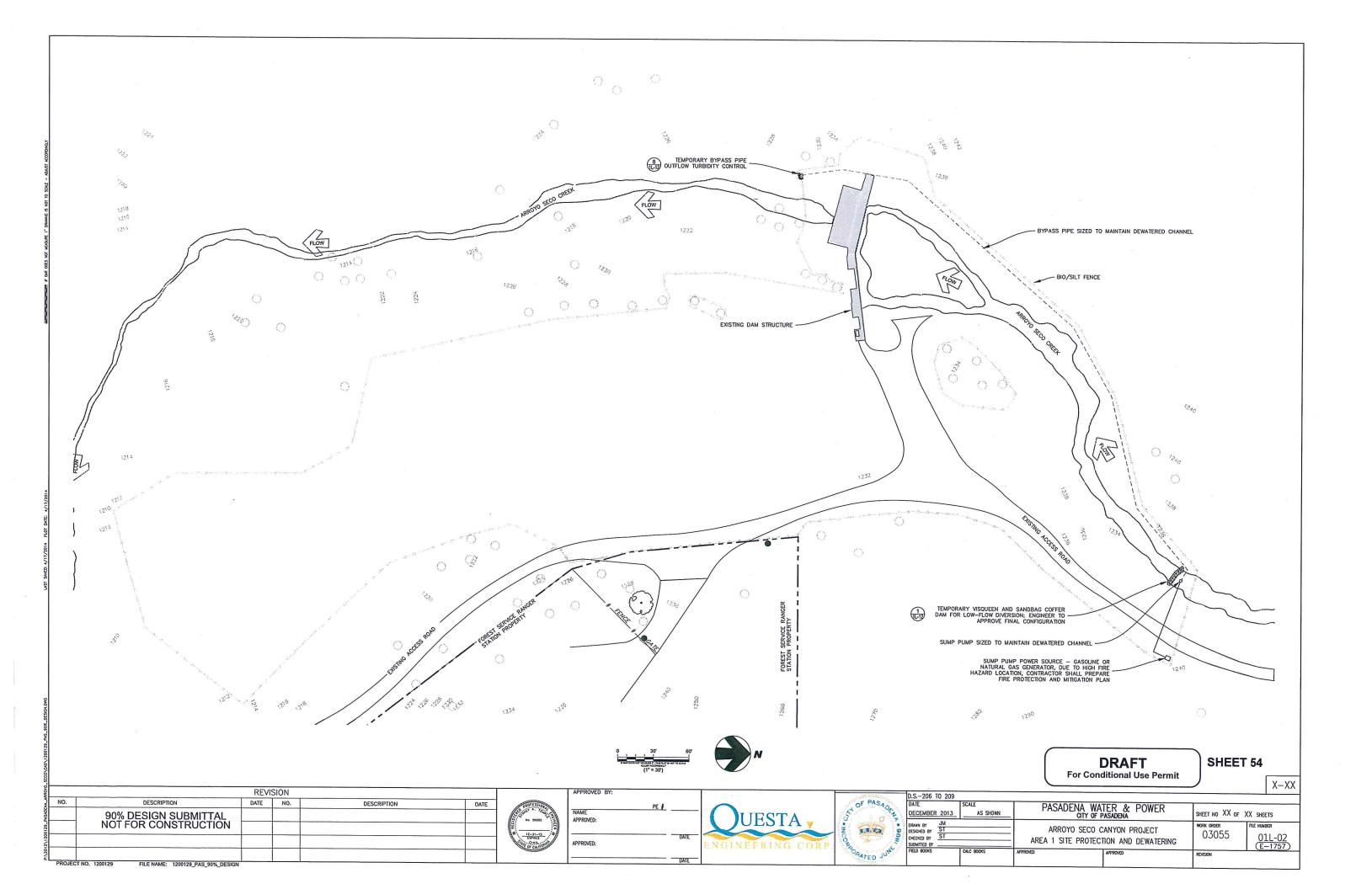
	DRAFT For Conditional Use Permit	SHEET 51
SHOWN	ARROYO SECO CANYON PROJECT TYPICAL DETAILS - 1	SHEET NO OF XX SHEETS WORK ORDER 03055 00NT-01 (E-1757) REVISION

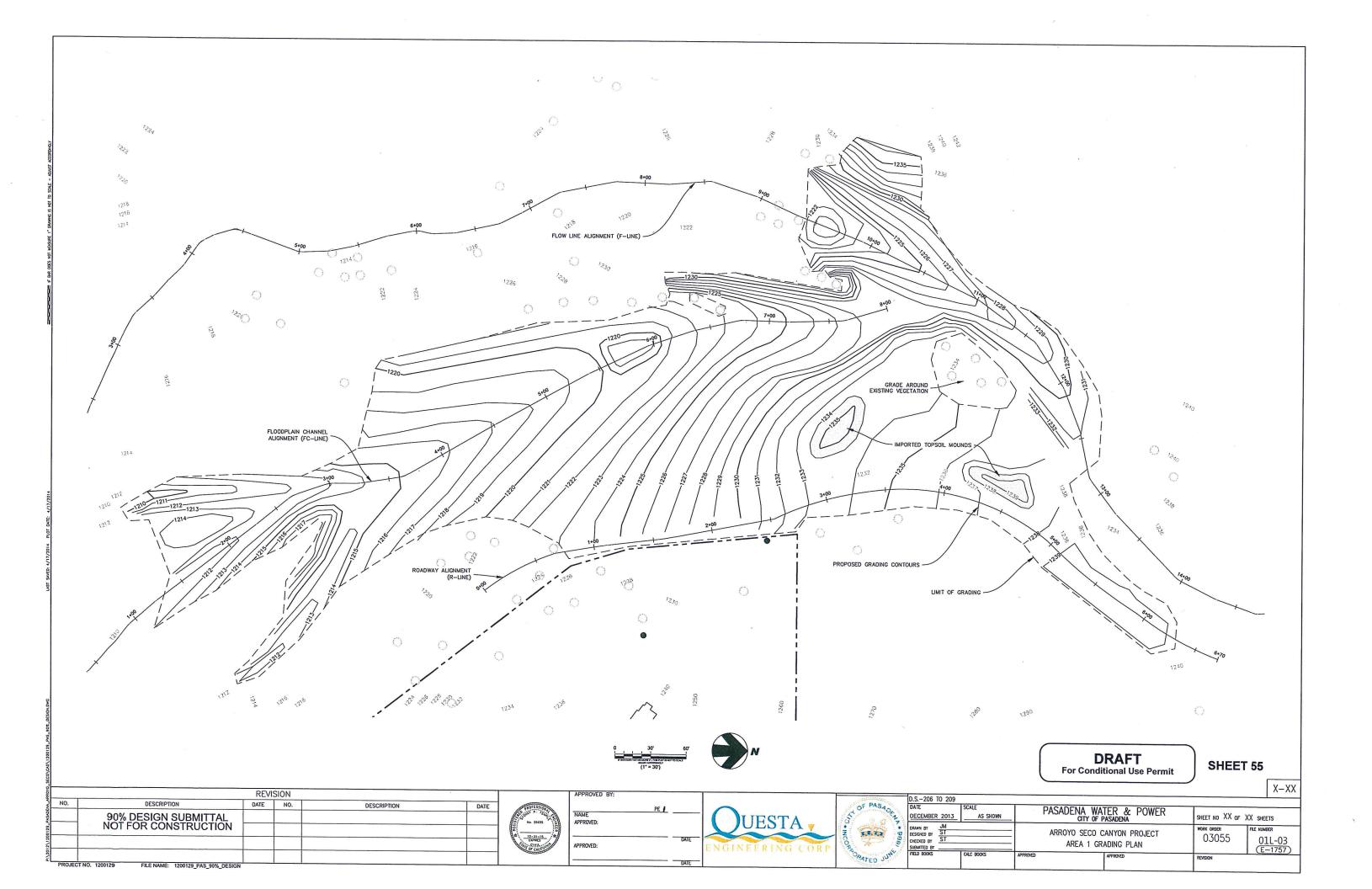


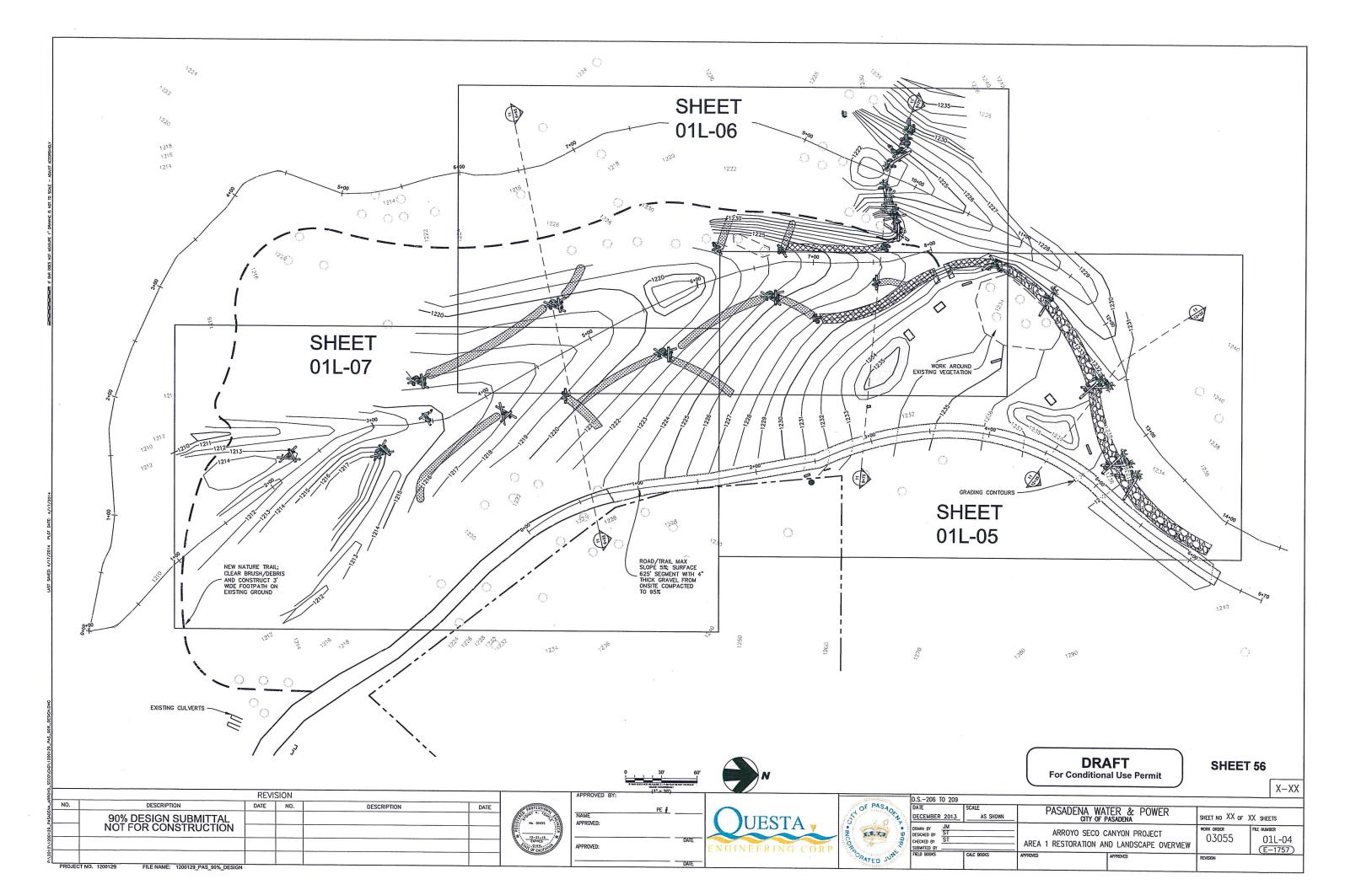
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	DRAFT c	SHEET 52
	For Conditional Use Permit	
		X-XX
SHOWN	PASADENA WATER & POWER CITY OF PASADENA	SHEET NO SHT OF XX SHEETS
		WORK ORDER FRE HUMBER
	ARROYO SECO CANYON PROJECT RESTROOM PUMPS	03055 10N-01
	RESTROOM PUMPS	(E-1757)
		REVISION

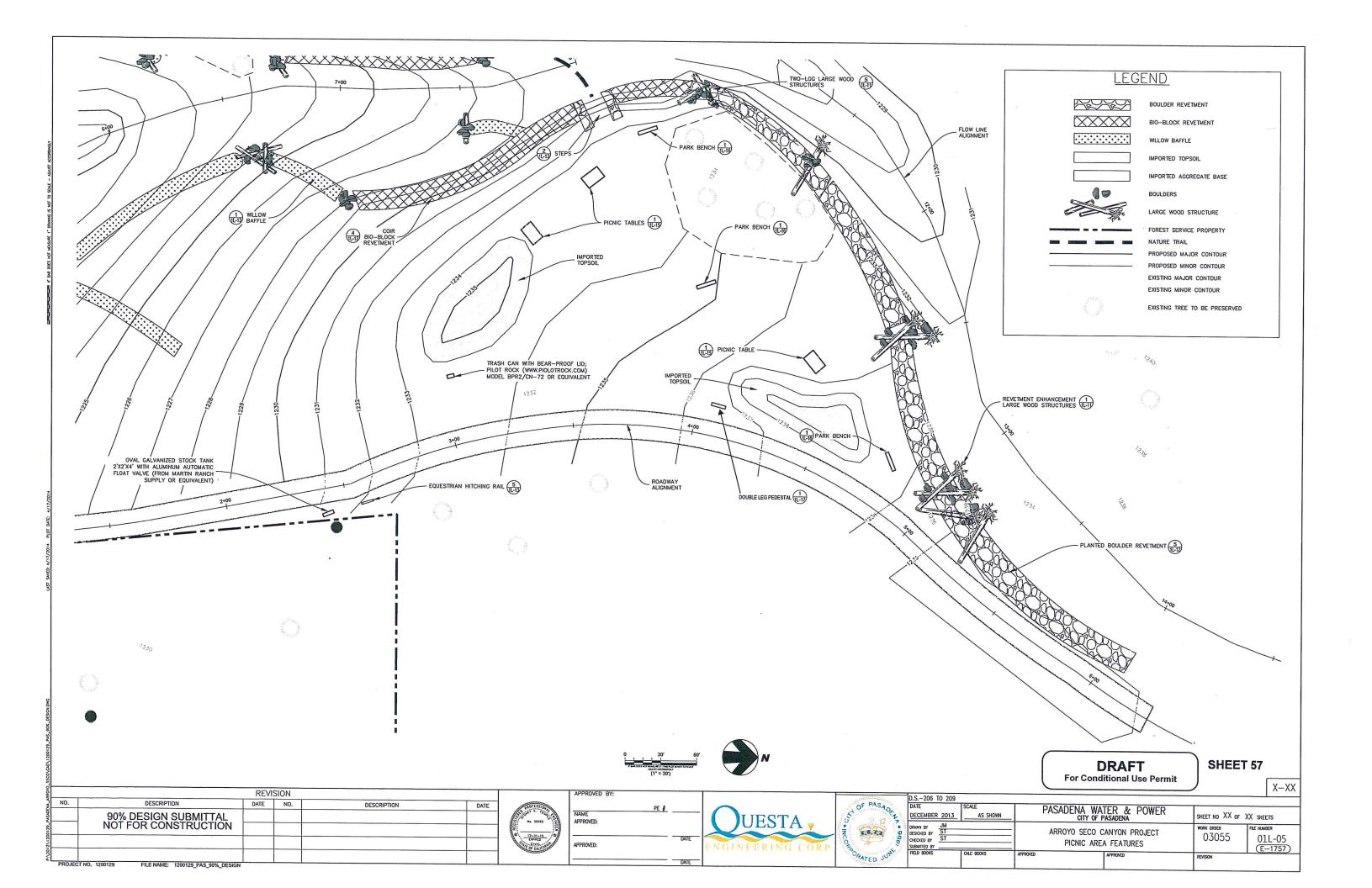


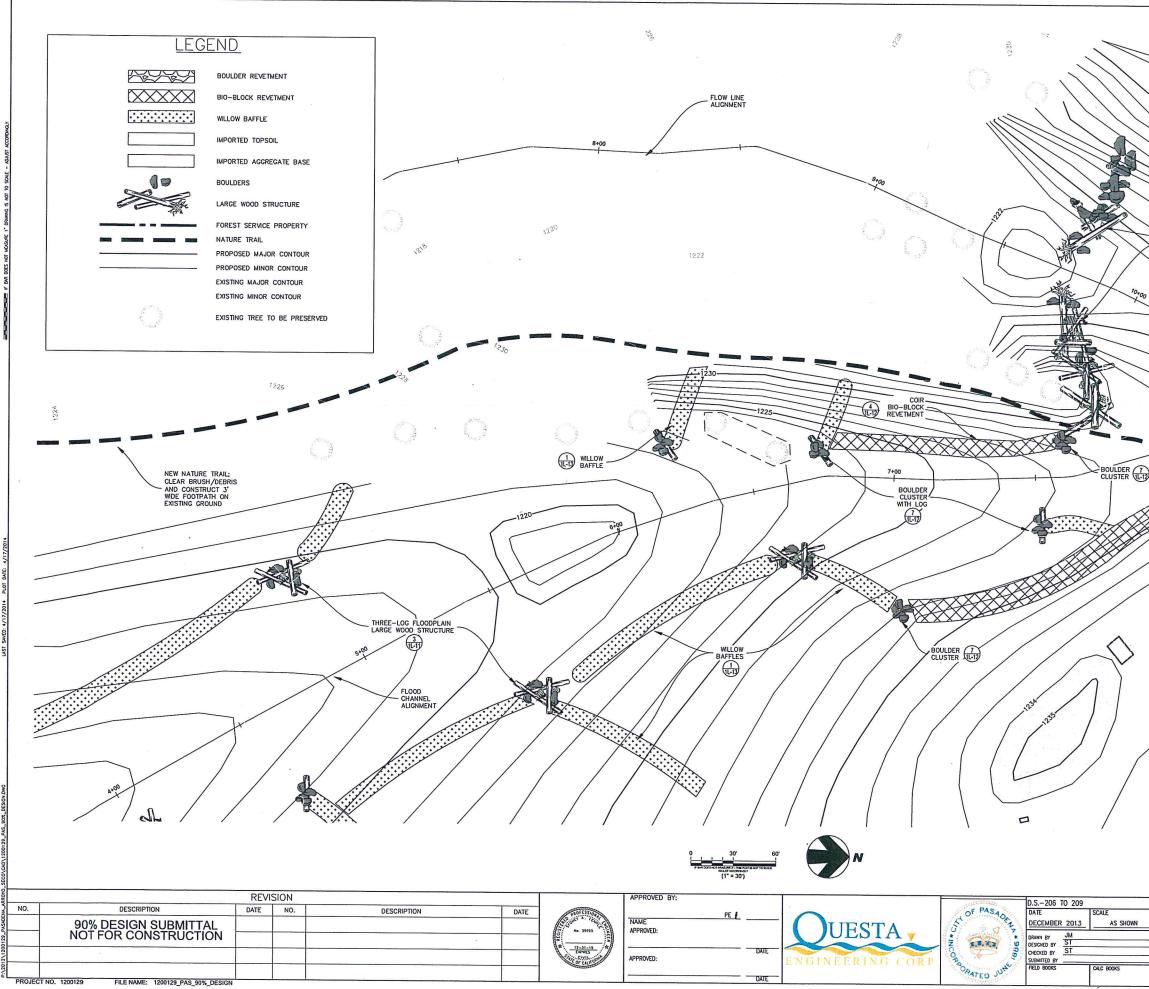
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13-10 13	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
RESTORATION QUANTITIES QUANTITIE EARTHWORK CUT: 4000 CY EARTHWORK FILL: 4000 CY OFFHAUL: ~500 CY CONCRETE RUBBLE IMPORT: 100 CY AB; 100 CY TOPSOIL; 950 CY RIPRAP;	<u>S:</u>
DETAIL DRAWING DESIGNATION FOR AREA 1 SHEETS DETAIL NO. BHEET NO.	SHEET 53
PASADENA WATER & POWER	SHEET NO XX OF XX SHEETS
ARROYO SECO CANYON PROJECT AREA 1 EXISTING CONDITIONS & NOTES	WORK ORDER         FLE NUMBER           03055         01L-01           (E-1757)
APPROVED	REMSION



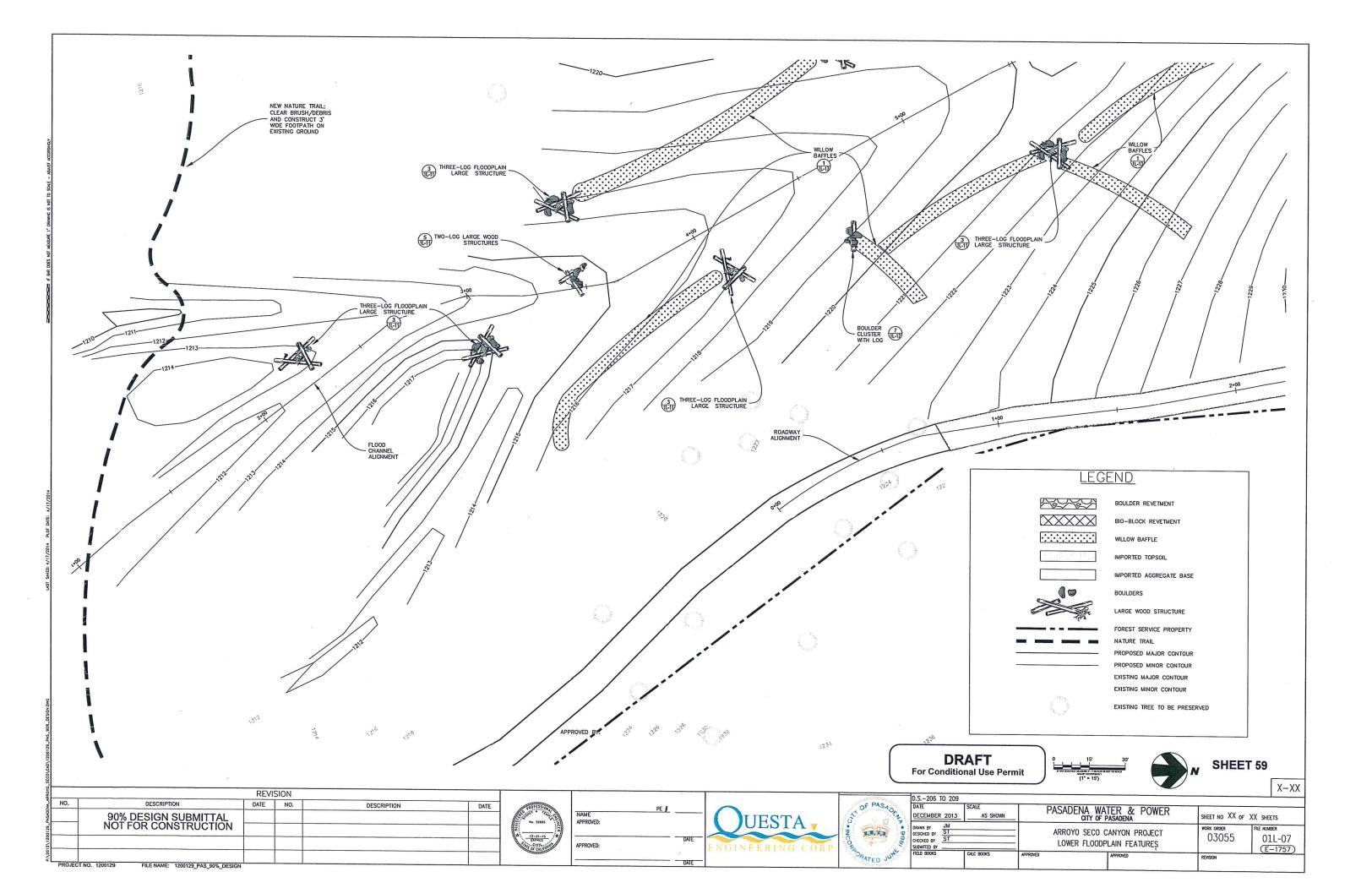




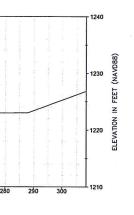




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11	1230	
/	FLOW CONSTRUCTOR LARGE WOOD	
1	FLOW CONSTRUCTOR LARGE WOOD STRUCTURE: COMBINATION OF DIFFERENT LARGE WOOD STRUCTURES SHOWN ON SHEET 01L-11; STRUCTURE SHALL UTILIZE HEIDEAD DROK AND 250 TONS OF	
~	ATS PIECES OF WOOD AND 250 TONS OF RIPRAP ROCK AND SHALL BE INSTALLED AS DIRECTED IN FIELD BY ENGINEER	
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	ALL VILLEY VILLEY PROPERTY IN THE STATE	L
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	DRAFT For Conditional Use Permit	
	Normalization         Normalization         Structure         Normalization         Structure         Structure         PASADENA         WATER & POWER         SHEET NO XX OF XX SHEETS	
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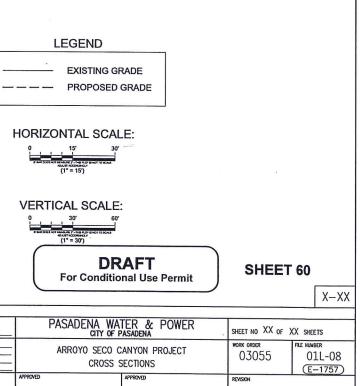
ני אטן אנצטאניב וי, טאאאאט וע אסן גס פטרב – אסטעצן אככסאטאניגע	STA 6+55 (LOOKING UPSTREAM)
100 BVB #	THREE-LOG FLOODPLAIN 1210 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280
E: 4/17/2014	STA 9+75 (LOOKING UPSTREAM)
SIGH.DWC	STA 12+35 (LOOKING UPSTREAM)
P:\2012\1200129_PASJDEN_URROY0_SECO\CAD\1200129_PAS_90%_DESIG	REVISION     SAPPROVED BY:       NO.     DESCRIPTION     DATE     NO.     DESCRIPTION     DATE       90% DESIGN SUBMITTAL NOT FOR CONSTRUCTION     0

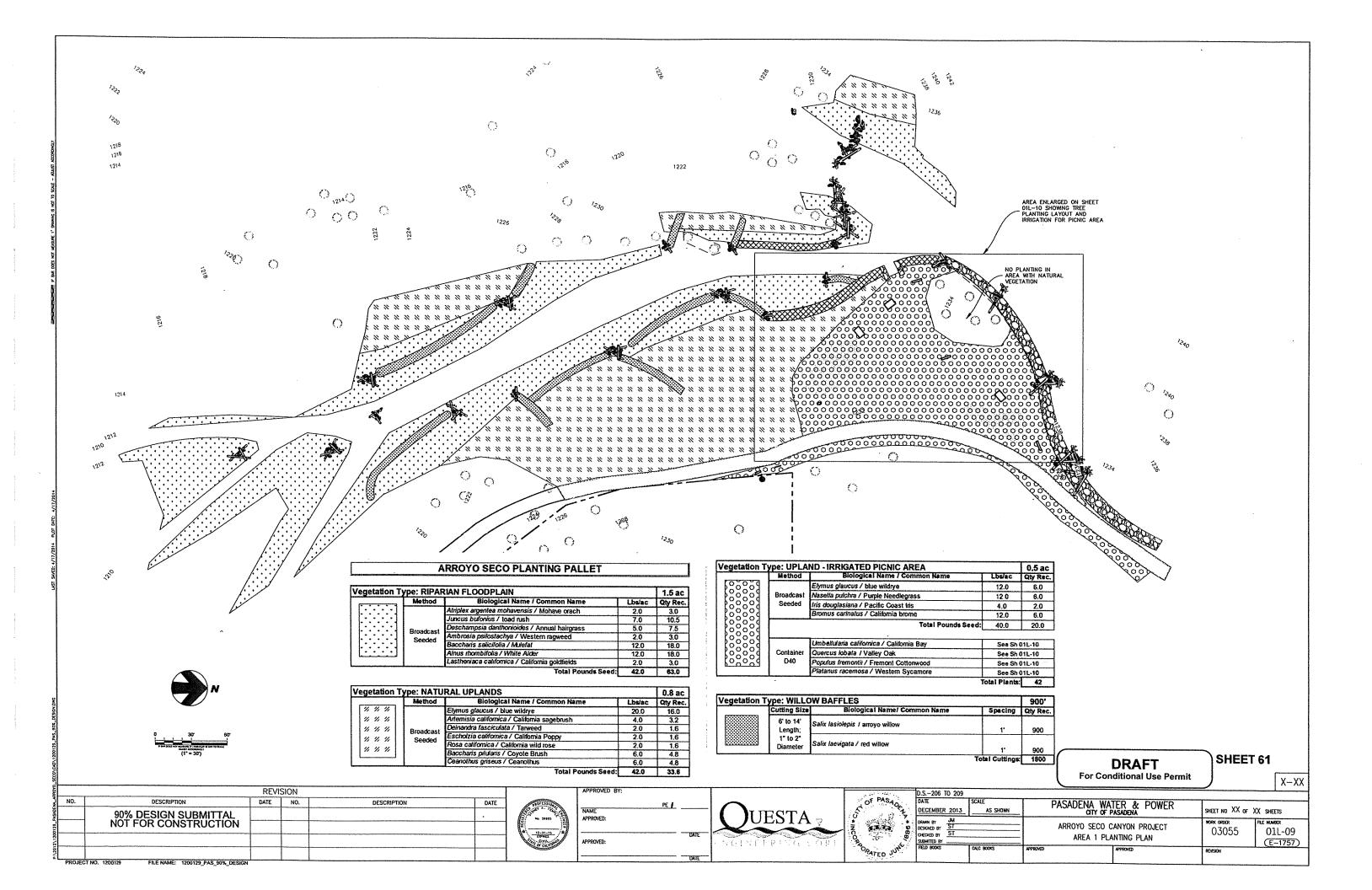


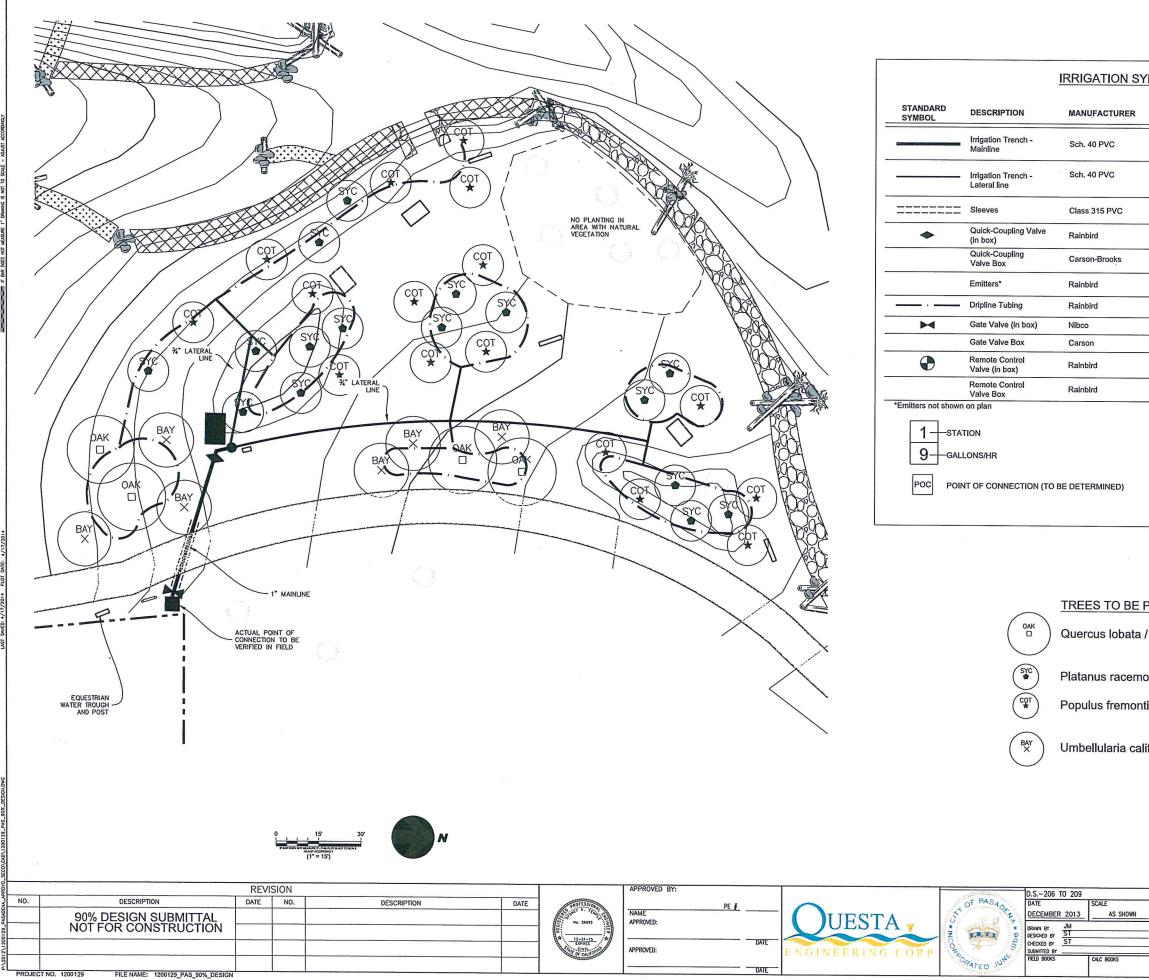
1250

-1240 (880) ELEVATION IN FEET (NAVD88)

⊥<sub>1220</sub>







SYMB	OLOGY AND MAT	ERIALS:	
2	MODEL # (if applicable)	COMMENTS	DETAIL (see sheet xx)
		24" below fin. grade	1
		18" below fin. grade	1
	5.K	24"/18" below fin. grade	1
	44LRC - 1" key		3
	910 Lockable	10" Round box w/ lid	3
	Xeri-Bug 10-32 Threaded Inlet XB-20PC-1032	Four per tree	5
	Black Stripe Tubing; 1/2" polyethylene pipe	Extend from lateral PVC and connect to emitter	5
	T-113		2
—	910 Lockable		2
	XCZ-100-PRB-COM		4
	Valve box with cover : Rainbird VB-STD		4

### TREES TO BE PLANTED (D40 CONTAINERS):

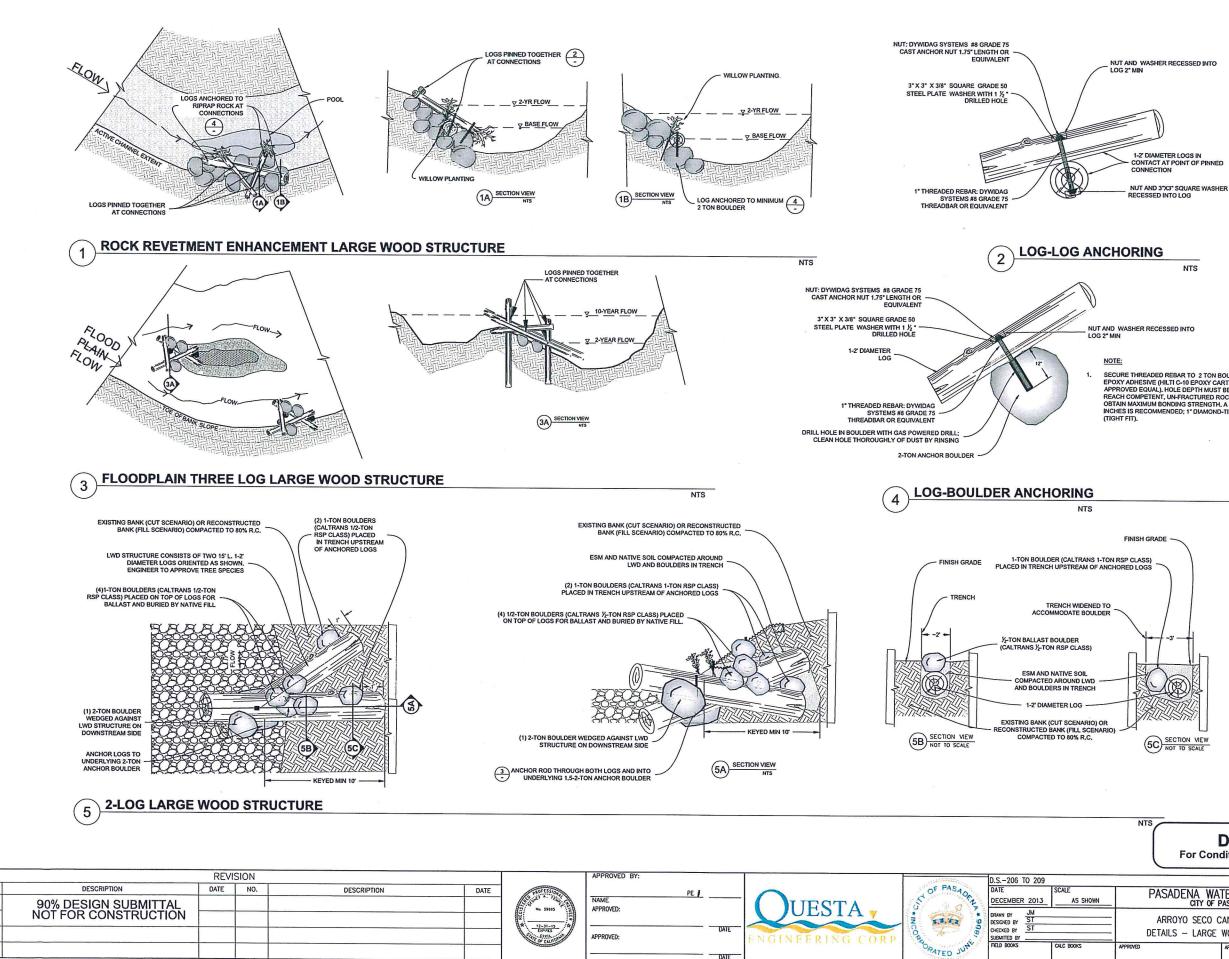
Quercus lobata / Valley Oak (4 TOTAL)

### Platanus racemosa / Western Sycamore (16 TOTAL)

Populus fremontii / Fremont Cottonwood (16 TOTAL)

### Umbellularia californica / California Bay (6 TOTAL)

		RAFT itional Use Permit		62
	PASADENA WA	TER & POWER	SHEET NO XX OF	XX SHEETS
=	PICNIC AREA IRRIGATIO	ANYON PROJECT IN AND TREE PLANTING	work order 03055	PLE NUMBER 01L-10 (E-1757)
	APPROVED	APPROVED	REVISION	

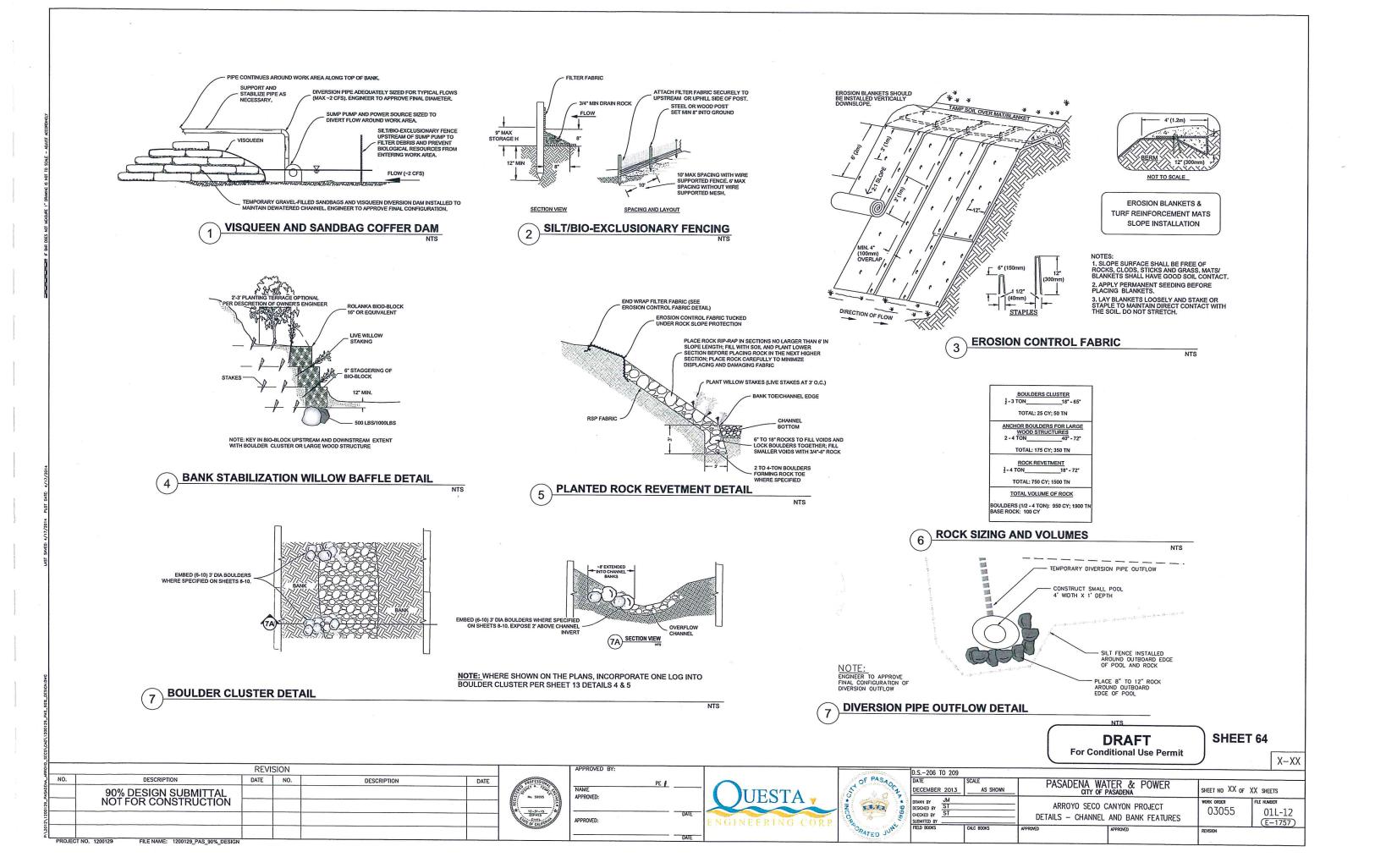


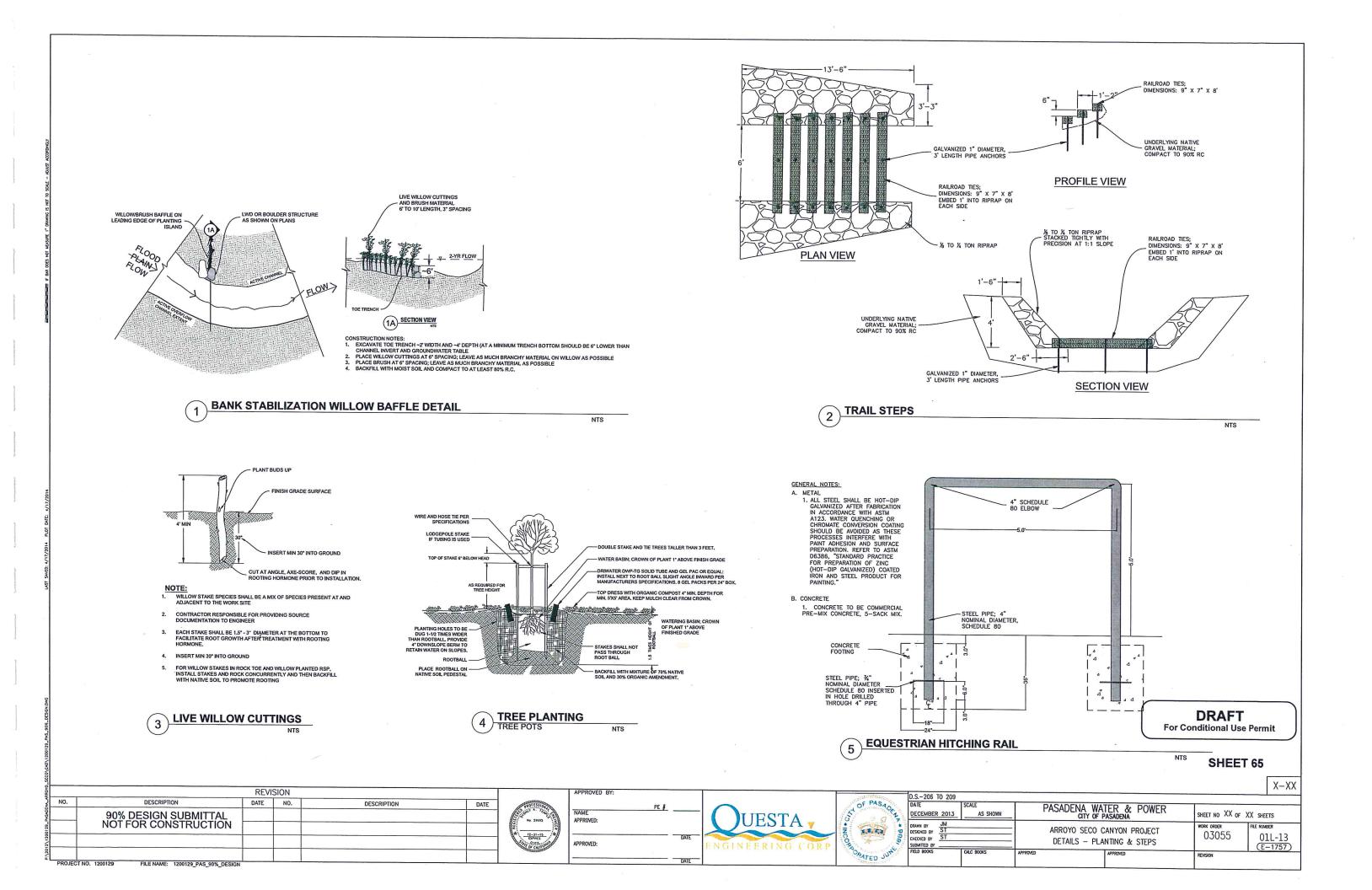
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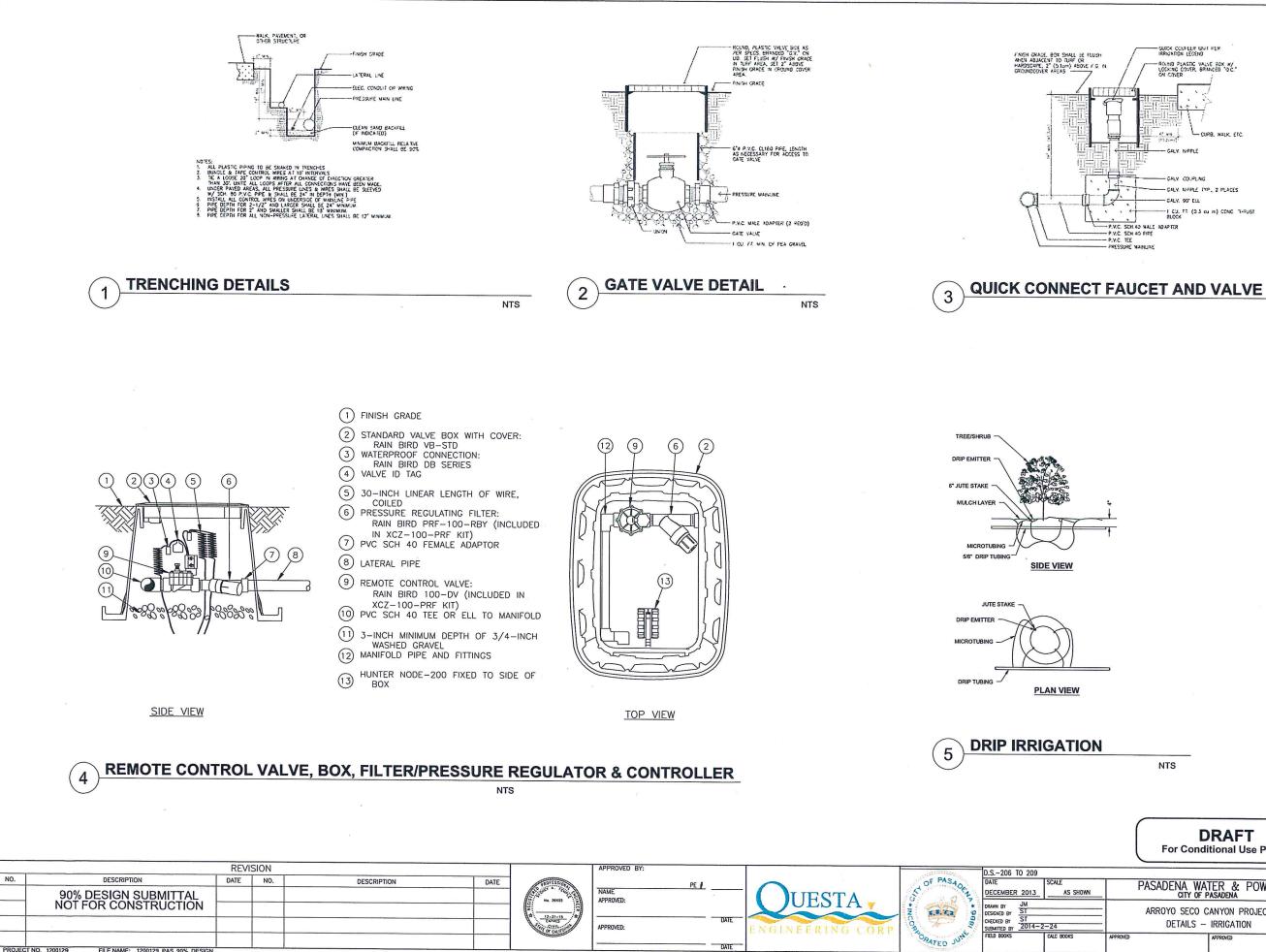
NO.

SECURE THREADED REBAR TO 2 TON BOULDER USING EPOXY ADHESINE (HILTI C-10 EPOXY CARTRIDGES, OR APPROVED EQUAL), HOLE DEPTH MUST BE SUFFICIENT TO REACH COMPETENT, UN-FRACTURED ROCK IN ORDER TO OBTAIN MAXIMUM BONDING STRENGTH, A MINIMUM OF 12 INCHES IS RECOMMENDED; 1" DIAMOND-TIPPED DRILL ITIGHT FTT.

	RSP CLASS) HORED LOGS	
	NTS	
	<b>DRAFT</b> For Conditional Use Permit	SHEET 63
_	PASADENA WATER & POWER	SHEET NO XX OF XX SHEETS
-	ARROYO SECO CANYON PROJECT	WORK ORDER FLE NUMBER
-	DETAILS - LARGE WOOD STRUCTURES	03055 01L-11 (E-1757)
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DATE

PROJECT NO. 1200129 FILE NAME: 1200129\_PAS\_90%\_DESIGN

NTS

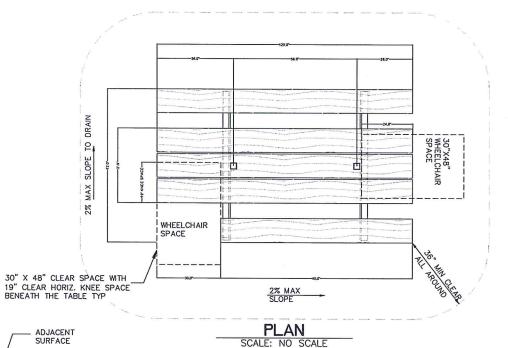
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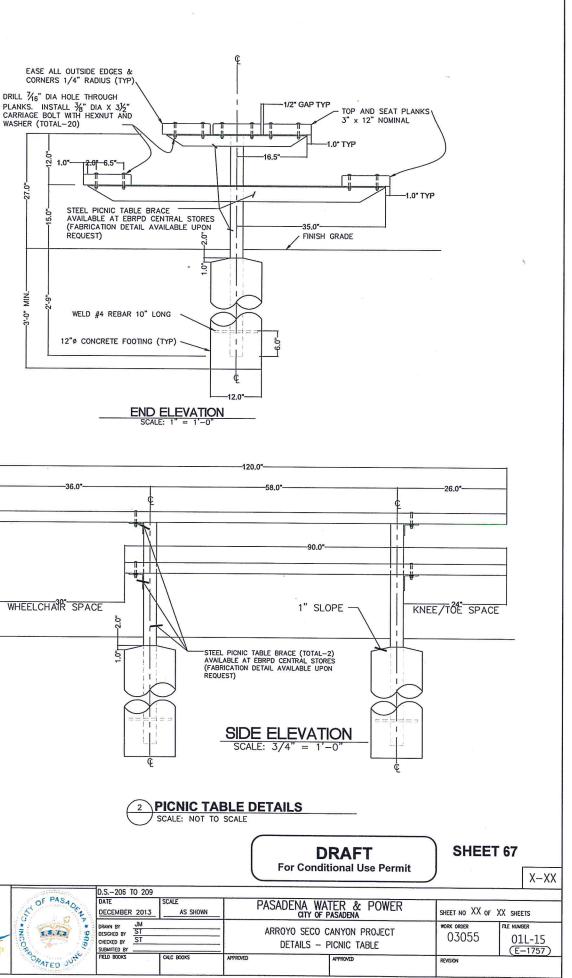
		DRAFT ditional Use Permit		<b>66</b>
	PASADENA W	ATER & POWER	SHEET NO XX OF	XX SHEETS
-	Contraction of the second seco	CANYON PROJECT - IRRIGATION	WORK ORDER 03055	FLE NUMBER 01L-14 (E-1757)
	APPROVED	APPROVED	REVISION	

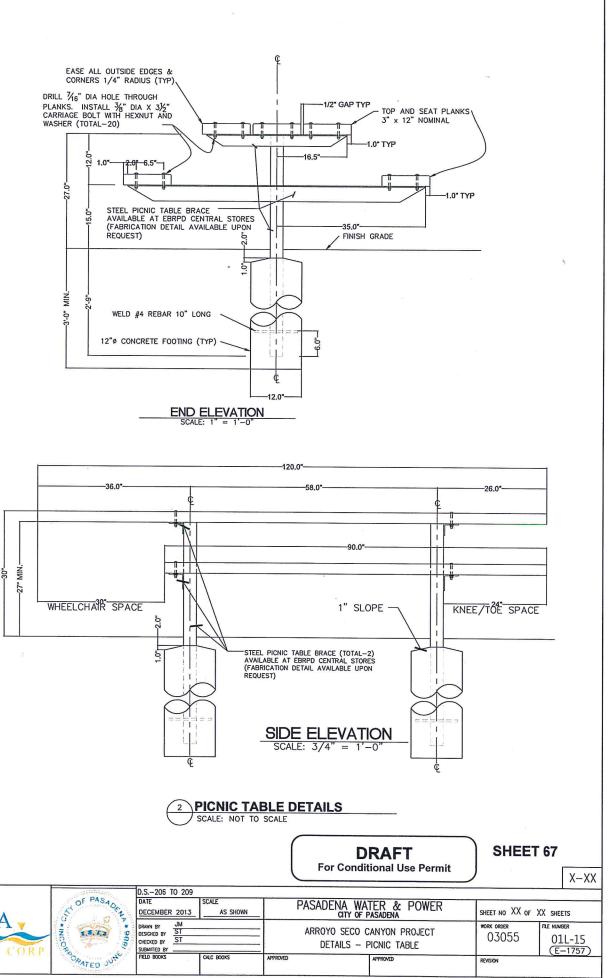
### ACCESSIBILITY NOTES

- 1. THE ACCESSIBLE PICNIC SITES MUST BE CONNECTED TO AN OUTDOOR RECREATION ACCESS ROUTE 2. THE ACCESSIBLE PICNIC SITES SHALL HAVE A SURFACE AREA WITH NO GREATER THAN A 2% SLOPE. 3. THE SURFACE AROUND THE ACCESSIBLE PICNIC TABLE SHALL BE FIRM AND STABLE.

- 4. WHEELCHAIR SPACE OF 30" X 48" SHALL BE PROVIDED AT ONE END OF THE PICNIC TABLE SO THAT A WHEELCHAIR USER MAY BE SEATED SHOULDER-TO-SHOULDER WITH AN INDIVIDUAL SEATED ON THE BENCH.
- NUMBER OF WHEELCHAIR SEATING SPACES SHALL BE PROVIDED IN RELATION TO THE TABLE TOP PERIMETER. 25 LF TO 44LF TABLE TOP PERIMETER SHALL HAVE 2 WHEELCHAIR SEATING SPACES.







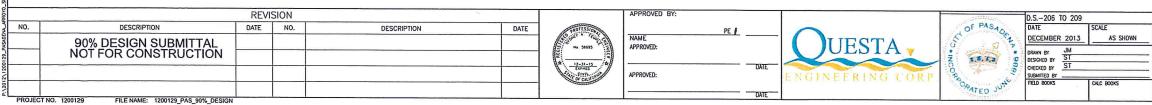


1. WOOD SHALL BE SUSTAINABLY HARVESTED, FSC CERTIFIED OR EQUIVALENT STANDARD CERTIFICATION SYSTEM. CONTRACTOR SHALL SUBMIT THREE (3) COPIES OF ALL APPLICABLE ENVIRONMENTAL COMPLIANCE DOCUMENTATION FROM EITHER FOREST STEWARDSHIP COUNCIL (FSC) OR APPROVED EQUAL.; WESTERN RED CEDAR, NO.2 CLEAR OR BETTER, SEASONED DRY, DRESSED 54S, EE, 19% MAX MOISTURE CONTENT AT TIME OF DRESSING

**1 PICNIC TABLE PLAN VIEW** 

SCALE: NOT TO SCALE

- 2. CUT ENDS OF WOOD PLANKS SHALL BE EASED 1/4" RADIUS (DURING TABLE INSTALLATION)
- 3. WOOD SHALL REMAIN UNFINISHED (DO NOT SEAL, STAIN OR PAINT) TO WEATHER NATURALLY TO A SILVER-GRAY PATINA.
- 4. FASTENERS SHALL BE HOTDIPPED GALVANIZED PER ASTM 153. 5. CONCRETE TO BE COMMERCIAL PRE-MIX CONCRETE, 5-SACK MIX.
- PRIMING, PAINTING, AND/OR TOUCH-UP OF STEEL BRACE SHALL BE PER DISTRICT SPECIFICATIONS.
   WESTERN RED CEDAR NOMINAL 3\* x 12\*
- 3PCS. 3X12 X 10' LENGTH
   2PCS. 3X12 X 7'-6" LENGTH



A. METAL

- AFTER FABRICATION IN ACCORDANCE WITH ASTME A123. WATER QUENCHING OR CHROMATE CONVERSION COATING SHOULD BE AVOIDED AS THESE PROCESSES INTERFERE WITH PAINT ADHESION AND SURFACE PREPARATION. REFER TO ASTM D6386, "STANDARD PRACTICE FOR PREPARATION OF ZINC (HOT-DIP GALVANIZED) COATED IRON AND STEEL PRODUCT FOR PAINTING."
- 2. PRIOR TO GALVANIZING, REMOVE ALL FLASH FROM WELDS, RADIUS ALL SHARP CORNERS, AND REMOVE ALL BURRS FROM DRILLED AND CUT PIECES.
- DIRECT WHERE NOTED, ALL STEEL SHALL BE COATED WITH PRIMER AND PAINT PER DISTRICT SPECIFICATIONS, PRIMER AND PAINT SHALL BE SUPPLIED BY THE FABRICATOR.

B. WOOD

- WOOD 1. USE SUSTAINABLY HARVESTED WOOD CERTIFIED BY THE FOREST STEWARDSHIP COUNCIL (FSC) OR EQUIVALENT STANDARD CERTIFICATION SYSTEMS. CONTRACTOR SHALL SUBMIT THREE (3) COPIES OF ALL APPLICABLE ENVIRONMENTAL COMPLIANCE DOCUMENTATION FROM EITHER FOREST STEWARDSHIP CONNCH (FCC) OD STEWARDSHIP COUNCIL (FSC) OR APPROVED EQUAL.
- 2. WESTERN RED CEDAR, NO.2 CLEAR OR BETTER, SEASONED DRY, DRESSED S4S, EE 3. 19% MAX MOISTURE CONTENT AT TIME OF
- DRESSING
- 4. EASE ALL OUTSIDE CORNERS AND EDGES 1" RADIUS
- 5. WOOD SHALL REMAIN UNFINISHED TO WEATHER NATURALLY TO A SILVER-GRAY PATINA

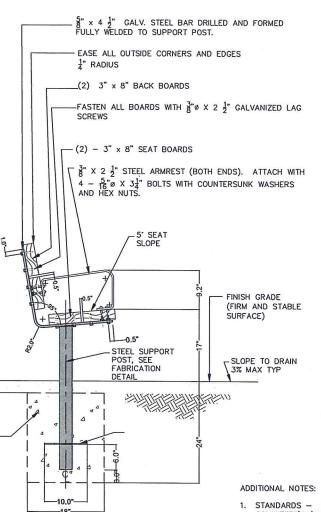
CONCRETE

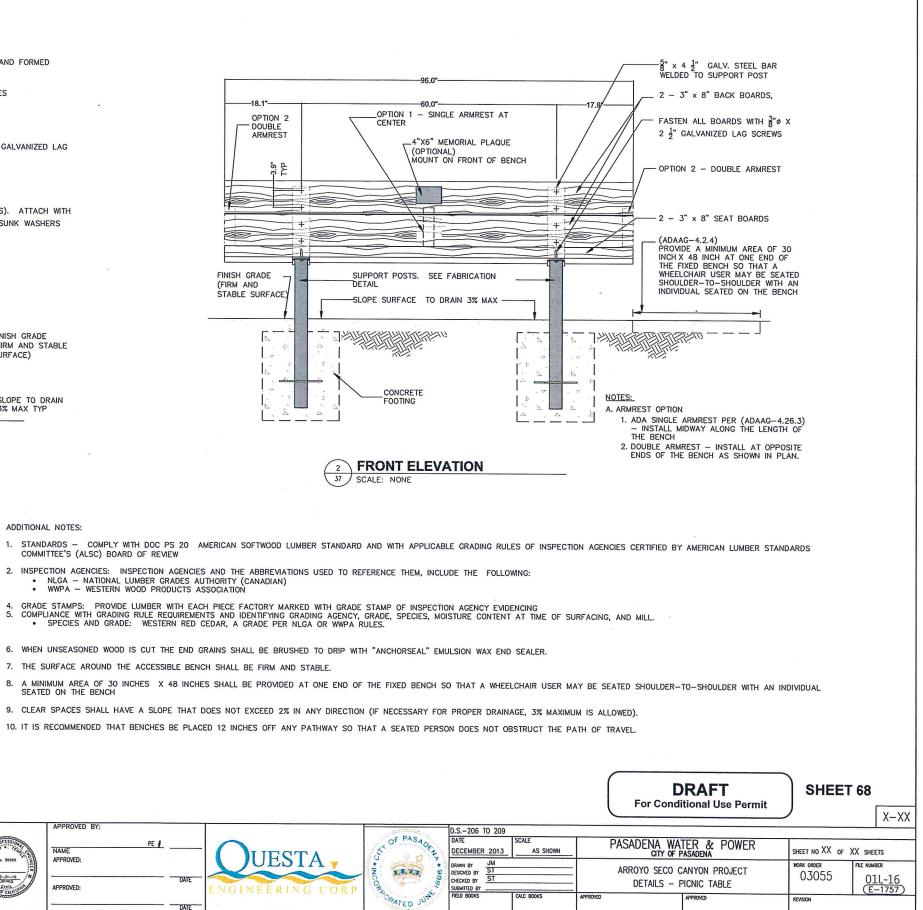
SECTION

SCALE: NONE

FOOTING

- C. CONCRETE
- 1. CONCRETE TO BE COMMERCIAL PRE-MIX CONCRETE, 5-SACK MIX.



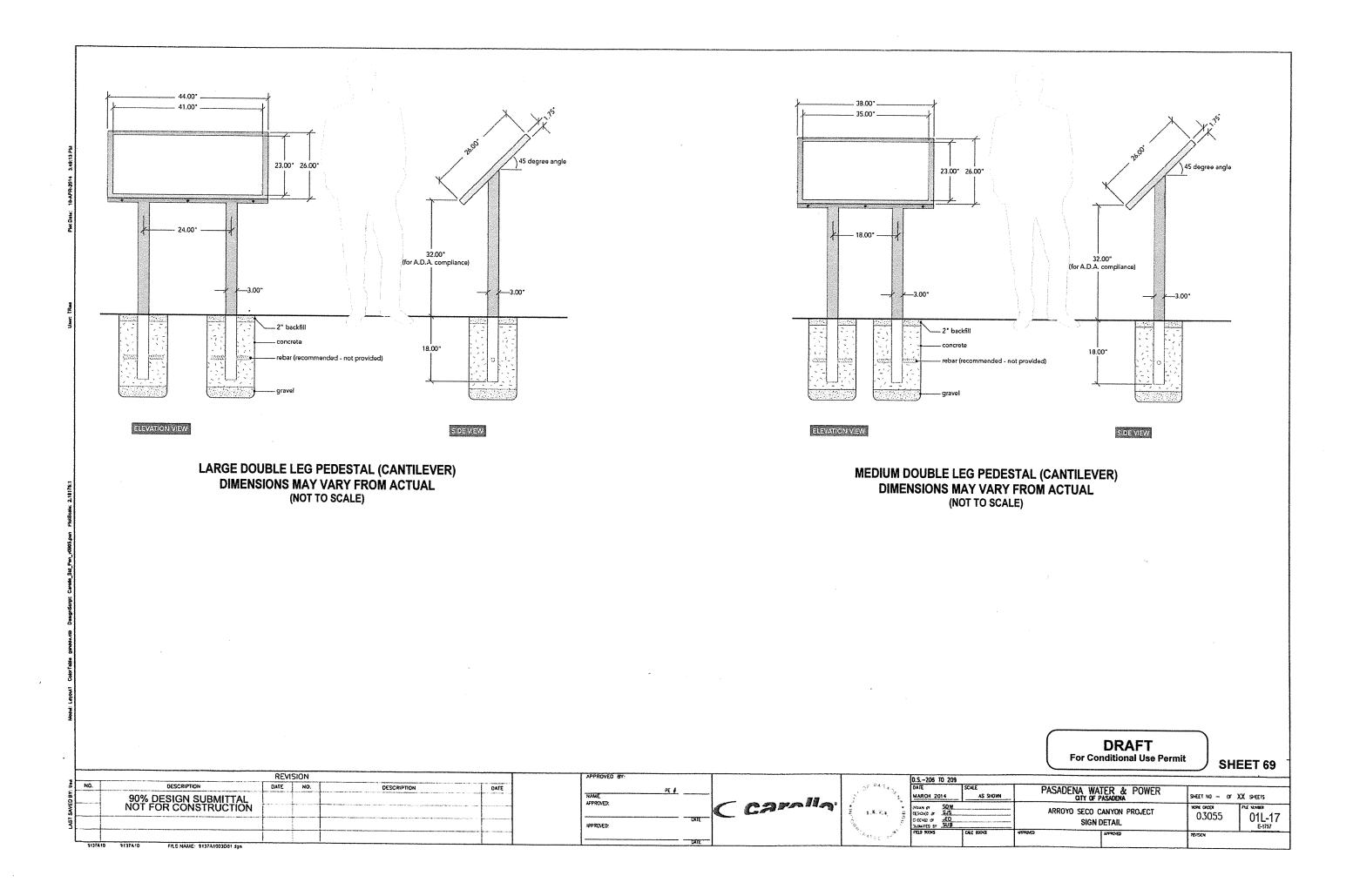


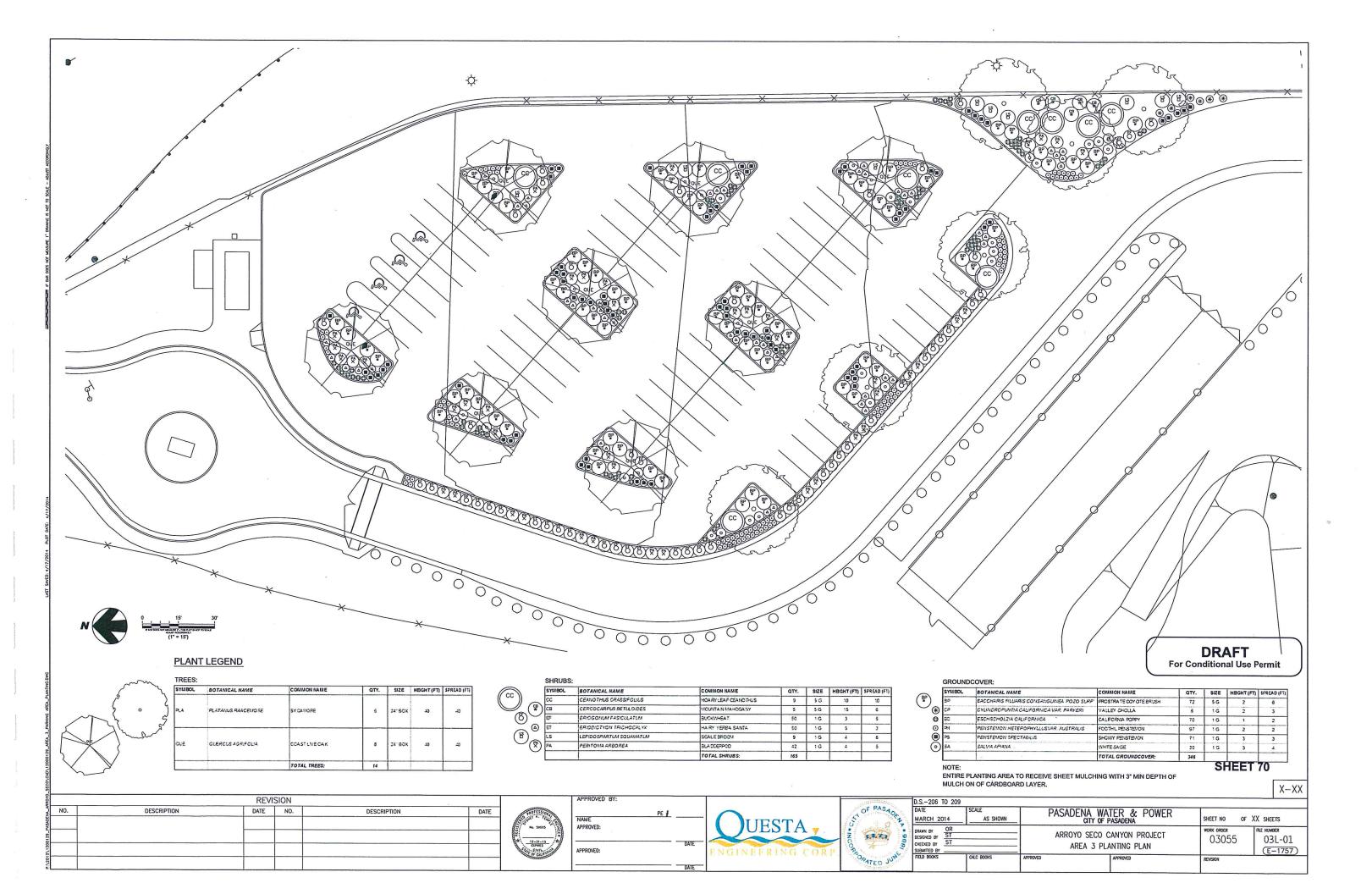
- COMMITTEE'S (ALSC) BOARD OF REVIEW
- 2. INSPECTION AGENCIES: INSPECTION AGENCIES AND THE ABBREVIATIONS USED TO REFERENCE THEM, INCLUDE THE FOLLOWING:
   NLGA NATIONAL LUMBER GRADES AUTHORITY (CANADIAN) WWPA - WESTERN WOOD PRODUCTS ASSOCIATION

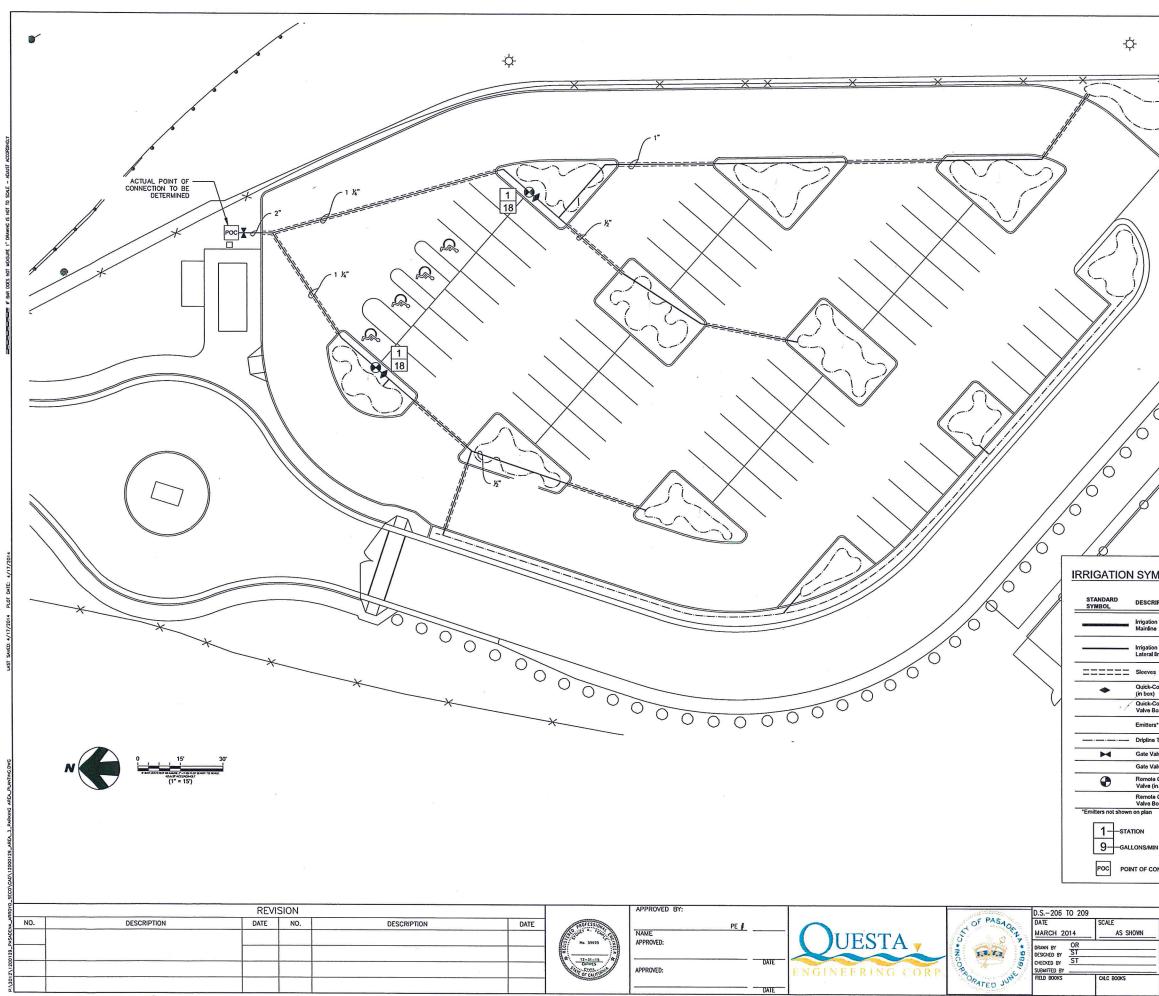
- 6. WHEN UNSEASONED WOOD IS CUT THE END GRAINS SHALL BE BRUSHED TO DRIP WITH "ANCHORSEAL" EMULSION WAX END SEALER.
- 7. THE SURFACE AROUND THE ACCESSIBLE BENCH SHALL BE FIRM AND STABLE.
- SEATED ON THE BENCH

		REVI	SION				APPROVED BY:			CHINELES.	D.S206 TO 209		-
NO.	DESCRIPTION	DATE	NO.	DESCRIPTION	DATE	PROFESSION		PE #		OF PASAD	DATE	SCALE	Т
	90% DESIGN SUBMITTAL		· · · · · · · · · · · · · · · · · · ·			Collower & Test Ca	NAME		TIECTA	5 St	DECEMBER 2013	AS SHOWN	
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GENERAL NOTES:







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MBC	DLOGY AND MATER	RIALS		
		RIALS (f applicable)	сомме	NTS DETAIL (see sheet 3)
RIPTIO	N MANUFACTURER	MODEL # (if applicable)		NTS DETAIL (see sheet 3)
RIPTIO on Tren	N MANUFACTURER	MODEL # (if applicable)		NIS (see sheet 3)
RIPTIO	N MANUFACTURER	MODEL # (if applicable)	24* below	NIS (see sheet 3)
RIPTIO on Tren ne on Tren	N         MANUFACTURER           ch -         Sch. 40 PVC for 2" & les           ch -         Sch. 40 PVC for I'r 8	MODEL # (if applicable)	Z4* below 18* below	nis (see sheet 3)
RIPTIO	N MANUFACTURER ch- Sch. 40 PVC for 2" & les ch- Sch. 40 PVC for line 1" & smaller	MODEL # (if applicable)	Z4* below 18* below	rfin. grade 1
RIPTIO on Tren tine S Couplin Couplin	N MANUFACTURER ch - Sch. 40 PVC for 2* & les ch - Sch. 40 PVC for line 1* & smaller Class 315 PVC rg Valve Rainbird	MODEL # (d'applicable) (s	Z4* below 18* below 24* below	rin, grade 1 fin, grade 1 fin, grade 1 v fin, grade 1
RIPTIO on Tren tine SS Couplin	N MANUFACTURER ch- Sch. 40 PVC for 2* & les ch- Sch. 40 PVC for line 1* & smaller Class 315 PVC ig Valve Rainbird	MODEL # (fl.applicable) (s: 44LRC - 1" key 910 Lockable Xeri-Bug 10-32 Threade	Z4* below 18* below 24* below 10* Round	rfin. grade 1 fin. grade 1 fin. grade 1 fin. grade 1 fin. grade 3 d box w/ lid 3
RIPTIO on Tren le on Tren l line couplin couplin Box	N MANUFACTURER ch- Sch. 40 PVC for 2' & les ch- Sch. 40 PVC for line 1' & smaller Class 315 PVC rg Valve Rainbird rg Carson Rainbird	MODEL # (f applicable) s 44LRC - 1" key 910 Lockable Xeri-Bug 10-32 Threade Init XB-20PC-1032 Black Stripe Tubing:	Z4* below 18* below 24* below 10* Round d Two per p Extend fro	r fin. grade 1 fin. grade 1 fin. grade 1 v fin. grade 1 d box w/ lid 3 slant 4 m lateral PVC and 4
RIPTIO on Tren te ss Couplin Box rs*	N MANUFACTURER ch - Sch. 40 PVC for 2* & les smaller Class 315 PVC rg Valve Rainbird g Rainbird g Rainbird	MODEL # (f applicable) (f applicable) (f applicable) (f applicable) (f applicable) Xeri-Bug 10-32 Threade Infol XB-20PC-1032	Z4* below 18* below 24* below 10* Round	NTS         (see sheet 3)           rfin. grade         1           rfin. grade         1           vfin. grade         1           3         3           d box w/ lid         3           smlater         4           om lateral PVC and semilter         4
RIPTIO on Tren 10 0 n Tren 11 line 25 Couplinn Box rs* e Tubin /alve (ir /alve Bo	N MANUFACTURER  ch - Sch. 40 PVC for 2* & les ch - Sch. 40 PVC for ine 1* & smaller  Class 315 PVC  g Valve Rainbird  g Rainbird  g Rainbird  hbox) Nibco  cx Carson	MODEL # (f applicable) s s 44LRC - 1" key 910 Lockable Xeri-Bug 10-32 Threade Iniet XB-20PC-1032 Black Stripe Tubing; 1/2" polyethylene pipe T-113 910 Lockable	Z4* below 18* below 24* below 10* Round d Two per p Extend fro	rfin. grade 1  fin. grade 1  fin. grade 1  fin. grade 1  d box w/ lid 3  klant 4  milateral PVC and 4  s 5 5 5
RIPTIO on Tren le on Tren line couplin Box rs* e Tubin /alve (ir /alve Bo /alve Contri /alve Bo	N MANUFACTURER  ch - Sch. 40 PVC for 2* & les ch - Sch. 40 PVC for ine 1* & smaller  Class 315 PVC  g Valve Rainbird  g Rainbird  g Rainbird  hbox) Nibco  bx Carson  ol Rainbird	MODEL # (f applicable) s 44LRC - 1" key 910 Lockable Xeri-Bug 10-32 Threade Iniet XB-20PC-1032 Black Stirps Tubing; 1/2" polyethylene pipe T-113 910 Lockable XCZ-100-PRB-COM	Z4* below 18* below 24* below 10* Round d Two per p Extend fro	NTS         (see sheet 3)           rfin. grade         1           rfin. grade         1           vfin. grade         1           3         3           d box w/ lid         3           som lateral PVC and semilter         4
RIPTIO on Tren l line couplin Couplin Box rs* e Tubin /alve (ir /alve Bo	N MANUFACTURER  ch - Sch. 40 PVC for 2* & les ch - Sch. 40 PVC for ine 1* & smaller  Class 315 PVC  g Valve Rainbird  g Rainbird  g Rainbird  hbox) Nibco  bx Carson  ol Rainbird	MODEL # (f applicable) s s 44LRC - 1" key 910 Lockable Xeri-Bug 10-32 Threade Iniet XB-20PC-1032 Black Stripe Tubing; 1/2" polyethylene pipe T-113 910 Lockable	Z4* below 18* below 24* below 10* Round d Two per p Extend fro	rfin. grade 1  fin. grade 1  fin. grade 1  fin. grade 1  d box w/ lid 3  klant 4  sm lateral PVC and 4  s 5 5 5
RIPTIO on Tren 18 0 on Tren 18	N MANUFACTURER  ch- Sch. 40 PVC for 2* & les  ch- Sch. 40 PVC for 1* 4 smaller  Class 315 PVC  g Valve Rainbird  g Rainbird  g Rainbird  g Rainbird  box) Nibco box Carson  ol Rainbird	MODEL # (f applicable) s 4 44LRC - 1* key 910 Lockable Xen-Bug 10-32 Threade Intol X8-20PC-1032 Black Stripe Tubing; 1/2* polyethylene pipe T-113 910 Lockable XCZ-100-PRB-COM Valve box with cover :	24" below 18" below 24" below 10" Round d Two per p Extend fro connect to	NTS (see sheet 3)  If in, grade 1  If in, grad
RIPTIO on Tren 1 line SS Couplin Box rs* e Tubin /alve (ir /alve Bot /alve Cottr Box	N MANUFACTURER  ch- Sch. 40 PVC for 2* & les  ch- Sch. 40 PVC for 1* 4 smaller  Class 315 PVC  g Valve Rainbird  g Rainbird  g Rainbird  g Rainbird  box) Nibco box Carson  ol Rainbird	MODEL # (f applicable) s 4 44LRC - 1* key 910 Lockable Xer-Bug 10-32 Threade Intol X8-20PC-1032 Black Stripe Tubing; 1/2* polyethylene pipe T-113 910 Lockable XCZ-100-PRB-COM Valve box with cover : Rainbird VB-STD	24" below 18" below 24" below 10" Round d Two per p Extend fro connect to	NTS (see sheet 3)  rfin. grade 1  rfin. grade 1  rfin. grade 1  rfin. grade 1  stant 4  semilateral PVC and 4  semilateral PVC and 4  become the semilateral to the s
RIPTIO on Tren 18 0 on Tren 18	N MANUFACTURER  ch- Sch. 40 PVC for 2* & les  ch- Sch. 40 PVC for 1* 4 smaller  Class 315 PVC  g Valve Rainbird  g Rainbird  g Rainbird  g Rainbird  box) Nibco box Carson  ol Rainbird	MODEL # (f applicable) s 4 44LRC - 1* key 910 Lockable Xer-Bug 10-32 Threade Intol X8-20PC-1032 Black Stripe Tubing; 1/2* polyethylene pipe T-113 910 Lockable XCZ-100-PRB-COM Valve box with cover : Rainbird VB-STD	24" below 18" below 24" below 10" Round d Two per p Extend fro connect to	NTS (see sheet 3)  If in, grade 1  If in, grad
RIPTIO on Tren line on Tren line couplin So couplin Box rs* e Tubin /alve (ir falve Box / alve Contr falve Box	N MANUFACTURER  ch- Sch. 40 PVC for 2* & les  ch- Sch. 40 PVC for 1* 4 smaller  Class 315 PVC  g Valve Rainbird  g Rainbird  g Rainbird  g Rainbird  box) Nibco box Carson  ol Rainbird	MODEL # (f applicable) s 4 44LRC - 1* key 910 Lockable Xer-Bug 10-32 Threade Intol X8-20PC-1032 Black Stripe Tubing; 1/2* polyethylene pipe T-113 910 Lockable XCZ-100-PRB-COM Valve box with cover : Rainbird VB-STD	24" below 18" below 24" below 10" Round d Two per p Extend fro connect to	NTS (see sheet 3)  rfin. grade 1  rfin. grade 1  rfin. grade 1  rfin. grade 1  stant 4  semilateral PVC and 4  semilateral PVC and 4  become the semilateral to the s
RIPTIO on Tren line on Tren line couplin So couplin Box rs* e Tubin /alve (ir falve Box / alve Contr falve Box	N MANUFACTURER  ch- Sch. 40 PVC for 2* & les ch- Sch. 40 PVC for 2* & les ch- Sch. 40 PVC for line 1* & smaller  Class 315 PVC  g Valve Rainbird  g Rainbird  g Rainbird  g Rainbird  ol Rainbird  ol Rainbird	MODEL # (f applicable) s 4 44LRC - 1* key 910 Lockable Xer-Bug 10-32 Threade Intol X8-20PC-1032 Black Stripe Tubing; 1/2* polyethylene pipe T-113 910 Lockable XCZ-100-PRB-COM Valve box with cover : Rainbird VB-STD	24" below 18" below 24" below 10" Round d Two per p Extend fro connect to	rfin. grade 1  fin. grade 1  f
RIPTIO on Tren line on Tren line couplin So couplin Box rs* e Tubin /alve (ir falve Box / alve Contr falve Box	N MANUFACTURER  ch- Sch. 40 PVC for 2* & les ch- Sch. 40 PVC for 2* & les ch- Sch. 40 PVC for line 1* & smaller  Class 315 PVC  g Valve Rainbird  g Rainbird  g Rainbird  g Rainbird  ol Rainbird  ol Rainbird	MODEL # (f applicable) s 4 44LRC - 1* key 910 Lockable Xer-Bug 10-32 Threade Intol X8-20PC-1032 Black Stripe Tubing; 1/2* polyethylene pipe T-113 910 Lockable XCZ-100-PRB-COM Valve box with cover : Rainbird VB-STD	24" below 18" below 24" below 10" Round d Two per p Extend fro connect to	rfin, grade 1  fin, grade 1  fin, grade 1  fin, grade 1  fin, grade 1  dox w/ lid 3  kant 4  maintareal PVC and 4  b emilter 5  fill  CRAFT  itional Use Permit
RIPTIO on Tren line on Tren line couplin So couplin Box rs* e Tubin /alve (ir falve Box / alve Contr falve Box	N MANUFACTURER  ch- Sch. 40 PVC for 2* & les ch- Sch. 40 PVC for 2* & les ch- Sch. 40 PVC for line 1* & smaller  Class 315 PVC gValve Rainbird  g Rainbird  g Rainbird  g Rainbird  ol Rainbird  ol Rainbird  class 0	MODEL # (f applicable) s: 44LRC - 1" key 910 Lockable Xei-Bug 10-32 Threade Inlet X8-2PC-1032 Black Stripe Tubing: 1/2" polyothylene pipe T-113 910 Lockable XGZ-100-PRB-COM Valve box with cover : Rainbird VB-STD For	24* below 18* below 24* below 10* Round d Two per p Extend fr connect to r Cond	rfin. grade 1  fin. grade 1  f
RIPTIO on Tren line on Tren line couplin So couplin Box rs* e Tubin /alve (ir falve Box / alve Contr falve Box	N MANUFACTURER ch- Sch. 40 PVC for 2* & les ch- Sch. 40 PVC for 1* & smaller Class 315 PVC ig Valve Rainbird 19 Carson Rainbird g Rainbird ot Rainbird ot Rainbird	MODEL # (f applicable) s: 44LRC - 1" key 910 Lockable Xei-Bug 10-32 Threade Inlet X8-2PC-1032 Black Stripe Tubing: 1/2" polyothylene pipe T-113 910 Lockable XGZ-100-PRB-COM Valve box with cover : Rainbird VB-STD For	24* below 18* below 24* below 10* Round d Two per p Extend fr connect to r Cond	NTS         (see sheet 3)           rfin. grade         1           rfin. grade         1           rfin. grade         1           3         3           d box w/ lid         3           shant         4           ym lateral PVC and         4           omilter         5           4         4           PRAFT         1           itional Use Permit         SHEET 71           X—XX         SHEET NO           OF XX SHEETS         XHEET NO
RIPTIO on Tren line on Tren line couplin So couplin Box rs* e Tubin /alve (ir falve Box / alve Contr falve Box	N MANUFACTURER  ch- Sch. 40 PVC for 2* & les ch- Sch. 40 PVC for 2* & les ch- Sch. 40 PVC for line 1* & smaller  Class 315 PVC gValve Rainbird  g Rainbird  g Rainbird  g Rainbird  ol Rainbird  ol Rainbird  class 0	MODEL # (f applicable) s 44LRC - 1° key 910 Lockable Xeri-Bug 10-32 Threade Inlet X8-20PC-1032 Black Stripe Tubing: 1/2° polyothylene pipe 17-113 910 Lockable XCZ-100-PRB-COM Valve box with cover : Rainbird VB-STD For	24* below 18* below 24* below 10* Round d Two per p Extend fr connect to r Cond	NTS         (see sheet 3)           fin. grade         1           fin. grade         1           ifin. grade         1           v fin. grade         1           3         3           d box w/ lid         3           sant         4           or lateral PVC and         4           4         5           5         4           4         4           PRAFT         itional Use Permit           SHEET 71         X-XX           SHEET NO         OF XX SHEETS           WORK ORGER         ITE NUMEER
RIPTIO	N MANUFACTURER  Ch- Sch. 40 PVC for 2* & les  ch- Sch. 40 PVC for 2* & les  ch- Sch. 40 PVC for ine 1* & smaller  Class 315 PVC  g Valve Rainbird  g Rainbird  g Rainbird  g Rainbird  g Rainbird  g Rainbird  Stion (To BE DETERMINED)  PASADENA WAT CITY OF P  ARROYO SECO C, AREA 3 IRRIC	MODEL # ((f.applicable) s: 44LRC - 1" key 910 Lockable Xeri-Bug 10-32 Threade Inlet X8-20PC-1032 Black Stripe Tubing: 1/2" polytity/ene pipe 17-113 910 Lockable XCZ-100-PRB-COM XCZ-100-PRB-COM Valve box with cover : Rainbird VB-STD Fol Fol ER & POWER ASADENA ANYON PROJECT SATION PLAN	24* below 18* below 24* below 10* Round d Two per p Extend fr connect to r Cond	rfin. grade 1  rfin.
RIPTIO	N MANUFACTURER  Ch- Sch. 40 PVC for 2* & les  ch- Sch. 40 PVC for 2* & les  ch- Sch. 40 PVC for ine 1* & smaller  Class 315 PVC  g Valve Rainbird  g R	MODEL # (f applicable) s 44LRC - 1° key 910 Lockable Xeri-Bug 10-32 Threade Inlet X8-20PC-1032 Black Stripe Tubing: 1/2° polyothylene pipe 17-113 910 Lockable XCZ-100-PRB-COM Valve box with cover : Rainbird VB-STD For For For ER & POWER ASADENA ANYON PROJECT	24* below 18* below 24* below 10* Round d Two per p Extend fr connect to r Cond	NTS         (see sheet 3)           fin. grade         1           fin. grade         1           ifin. grade         1           v fin. grade         1           3         3           d box w/ lid         3           sant         4           on lateral PVC and         5           4         5           5         4           4         4           DRAFT         itional Use Permit           SHEET 71         X-XX           SHEET NO         OF XX SHEETS           WORK ORGER         03L-02

