

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

September 24, 2025

Evan Babcock
CDM Smith
6110 Indian School Road NE
Albuquerque, NM, 87110

**RE: Santa Barbara Arsenic Treatment Facility
3301 Claremont Ave NE
Grading and Drainage Plan
Engineer's Stamp Date: 08/12/2025
Hydrology File: H16D100
Case # HYDR-2025-00291**

Dear Mr. Babcock:

PO Box 1293

Based upon the information provided in your submittal received 08/12/2025, the Grading & Drainage Plans are not approved for Building Permit. The following comments need to be addressed for approval of the above referenced project:

Albuquerque

1. Please provide the FIRM Map and floodplain note with effective date.

NM 87103

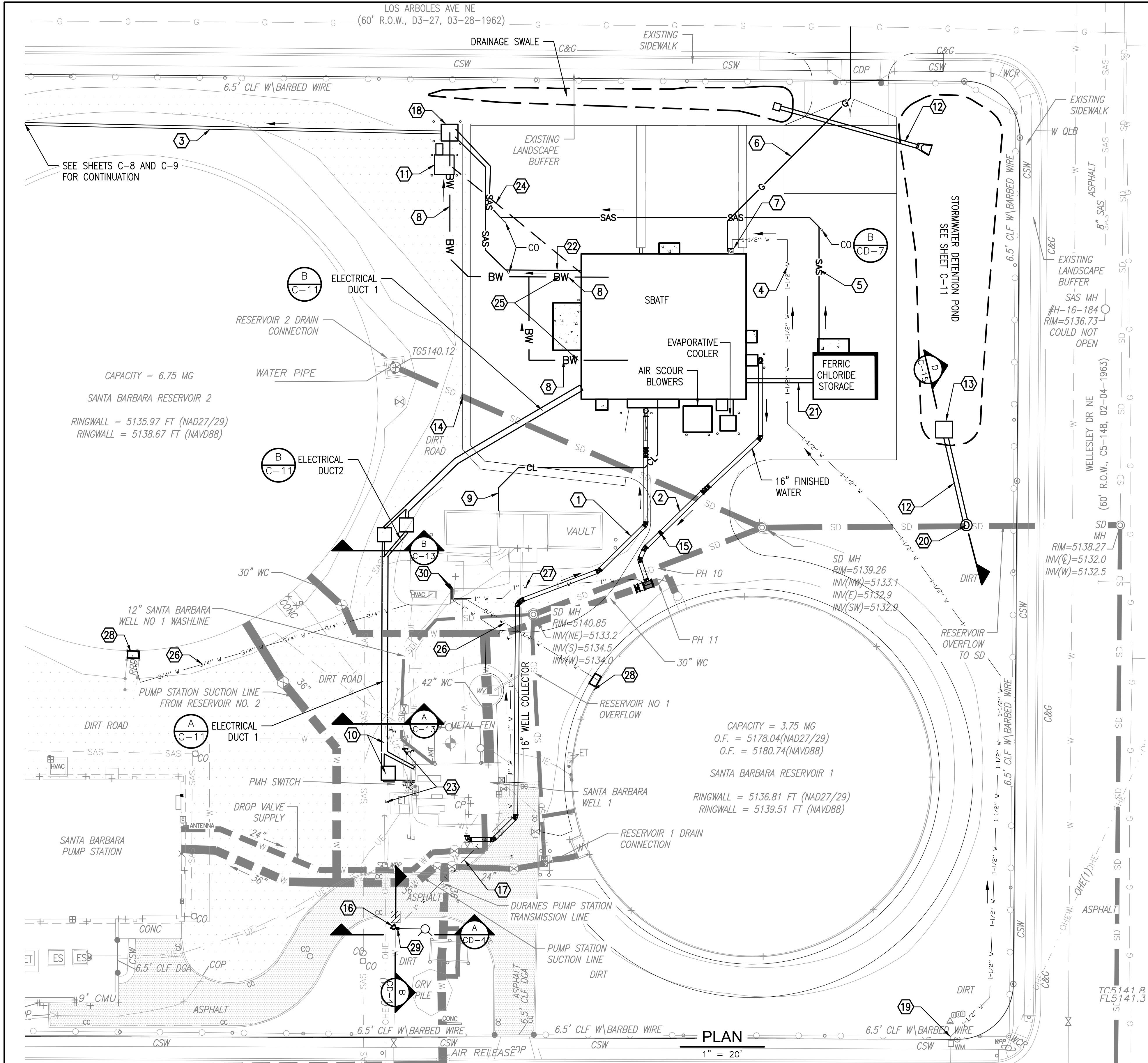
As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 505-924-3420) 14 days prior to any earth disturbance.

www.cabq.gov

If you have any questions, please contact me at 505-924-3314 or amontoya@cabq.gov.

Sincerely,

Anthony Montoya, Jr., P.E., C.F.M.
Senior Engineer, Hydrology
Planning Department, Development Review Services







NOTES:

- SEE DRAWING M-2 FOR SBATF PROCESS MECHANICAL LAYOUT.
- BURIED DI PIPING TO BE POLYWRAPPED.
- ROUTE ALL SANITARY DRAINAGE PIPING AT A MINIMUM SLOPE OF 1/4" PER FOOT.
- ALL ELECTRICAL DUCTBANKS TO MAINTAIN A COVER OF 2.0- FEET.
- UTILITY INSTALLATION IN THE RIGHT-OF WAY SHALL CONFORM TO PAVEMENT CUTS AND UTILITY TRENCH BACKFILL REQUIREMENTS OF COA STANDARD DRAWING 2465.

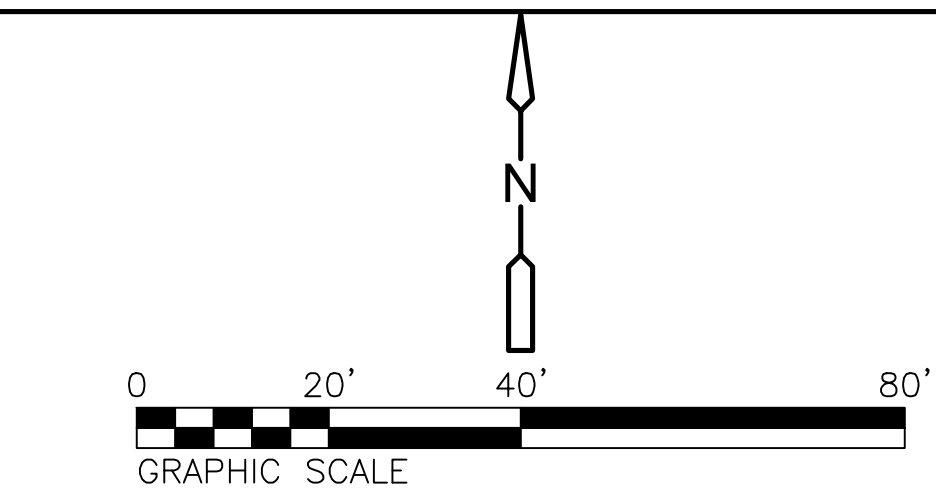
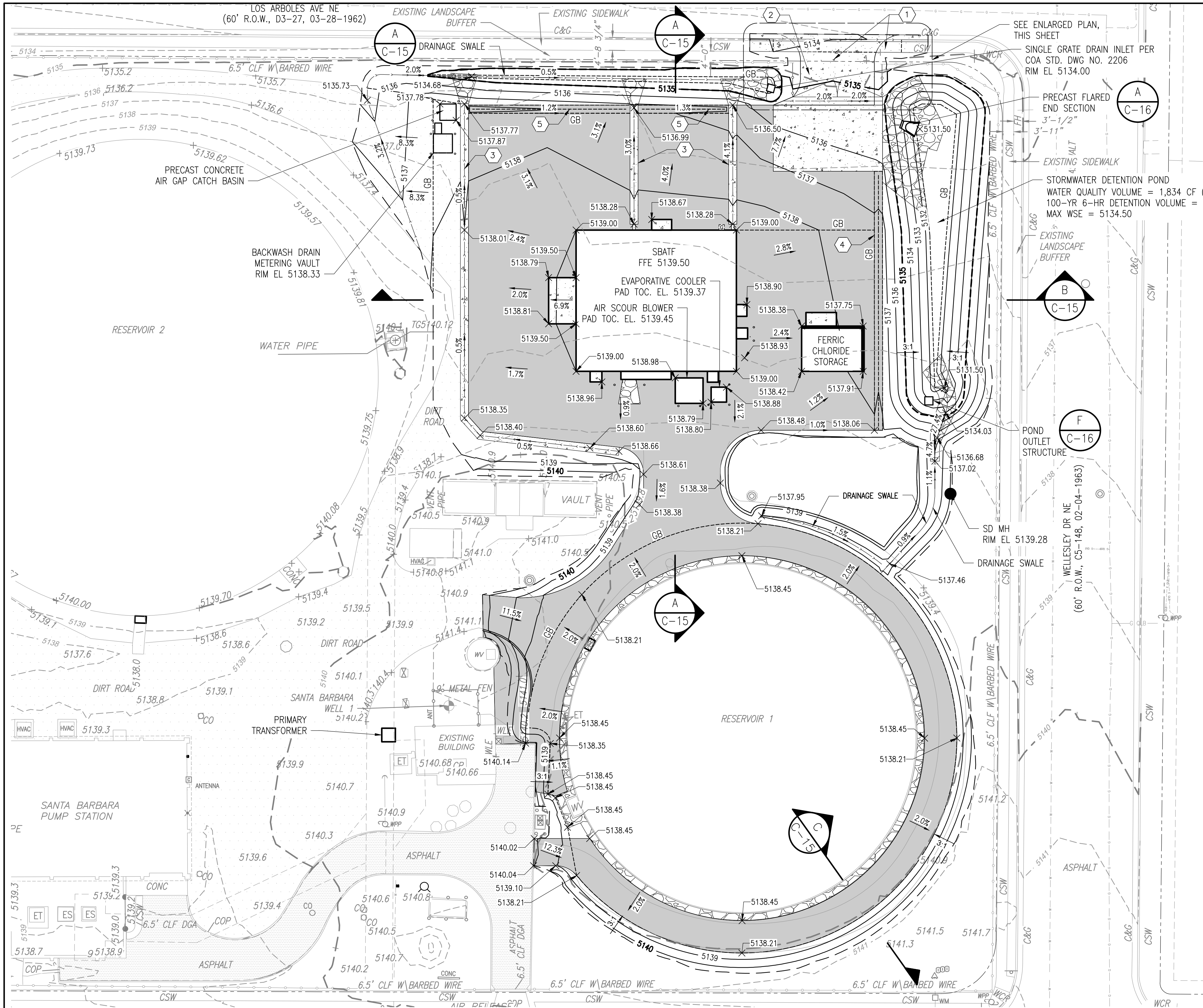
KEYED NOTES:

- 16" RAW WATER (DIP), SEE SHEET C-8 FOR PIPE PROFILE.
- 16" FINISHED WATER (DIP), SEE SHEET C-8 FOR PIPE PROFILE.
- 12" BACKWASH DRAIN (PVC), SEE SHEET C-9 AND C-10 FOR PIPE PROFILE.
- 1.5" COPPER SERVICE LINE. ROUTE AT A MINIMUM DEPTH OF 2.5- FEET.
- 4" PVC CHEMICAL CONTAINMENT SUMP DRAIN.
- 1.5" MDPE GAS.
- GAS METER.
- 10" BACKWASH DRAIN (DIP), SEE SHEET C-9 FOR PIPE PROFILE.
- 6" CASING PIPE FOR CHLORINE INJECTION LINE WITH LONG-SWEEP ELBOWS.
- 1" COPPER WATER SERVICE LINE FOUND AT PH #19 NSTEAD OF PH #18. CONTRACTOR TO FIELD VERIFY LOCATION. ALIGNEMNT ALONG PH #18 SURVEYED AT QLD FROM THE ABCWUA FACILITY DRAWINGS.
- BACKWASH DRAIN FLOW METER (FE-2070) VAULT, SEE SHEET CD-8 FOR DETAILS.
- 15" STORM DRAIN (CLASS IV RCP) WITH TYPE 1 BEDDING PER COA STANDARD SPEC SECTION 123.
- DETENTION POND OUTLET STRUCTURE.
- EXISTING 24" STORM DRAIN (RCP), PROTECT IN PLACE.
- NEW 16" BFV. SEE DETAIL C/CD-2.
- CONCRETE THRUST BLOCK PER DETAIL A/CD-19.
- ROUTE 1" COPPER DISINFECTION SYSTEM SUPPLY FROM CORP STOP TO THE HYPOCHLORITE BUILDING WITH A MINIMUM 2.5 FEET COVER. SEE SHEET CD-4.
- AIR GAP CATCH BASIN. SEE SHEET CD-15 FOR DETAILS.
- CONNECT NEW 1.5" COPPER SERVICE LINE TO EXISTING IRRIGATION SYSTEM LINE JUST DOWNSTREAM OF MASTER WATER METER. REPAIR ANY FOUND DAMAGE TO IRRIGATION LINES DURING CONSTRUCTION.
- STORMWATER MANHOLE. SEE SHEET CD-16.
- 6" CASING PIPE FOR FERRIC CHLORIDE INJECTION LINE WITH LONG-SWEEP ELBOWS.
- 4" SANITARY SEWER. SEE PLUMBING SHEETS FOR REFERENCE.
- CONTRACTOR TO TEMPORARILY CUT AND CAP UTILITIES DURING CONSTRUCTION OF ELECTRICAL TRANSFORMER AND CONDUITS AND RECONNECT AFTER WORK IS COMPLETE (TYP).
- 1" FLOW METER TRANSMITTER CONDUIT. SEE ELECTRICAL SHEETS FOR DETAILS.
- STEEL TO DUCTILE PIPE TRANSITION. SEE DETAIL A/CD-14.
- ROUTE 3/4" COPPER SAMPLING LINE FROM NEW CHLORINE ANALYZER SAMPLING BOX TO HYPOCHLORITE BUILDING MAINTAINING A MINIMUM COVER OF 2.5- FEET.
- ROUTE 1" COPPER SAMPLING RETURN LINE FROM HYPOCHLORITE BUILDING TO TAP ON CENTER OF THE NEW 30"x16" FINISHED WATER CONNECTION TEE.
- CHLORINE SAMPLING LINE TAP AND ENCLOSURE. SEE DETAIL E/CD-7.
- NEW 6" BFV. SEE DETAIL C/CD-2.
- ROUTE (X2) 3/4" COPPER SAMPLING LINES, 1" COPPER SAMPLING RETURN LINE, AND 1" COPPER DISINFECTION SYSTEM SUPPLY LINE THROUGH FLOOR SLAB INTO THE SOUTHEAST CORNER OF THE EXISTING HYPOCHLORITE BUILDING. SAW CUT EXISTING FLOOR SLAB 3/4" DEEP AT PERIMETER, CHIP AND REMOVE CONCRETE AS REQUIRED. USE #4@18" ON-CENTER, MIN 2, ADHESIVE DOWELS PER SIDE, EMBED 4". PATCH WITH CONCRETE AFTER ALL ITEMS ARE INSTALLED. PIPE PENETRATION PER DETAIL G/PD-2. TERMINATE PIPE 2' AFF WITH A CORPORATION STOP PER ABCWUA APPROVED PRODUCT LIST.

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

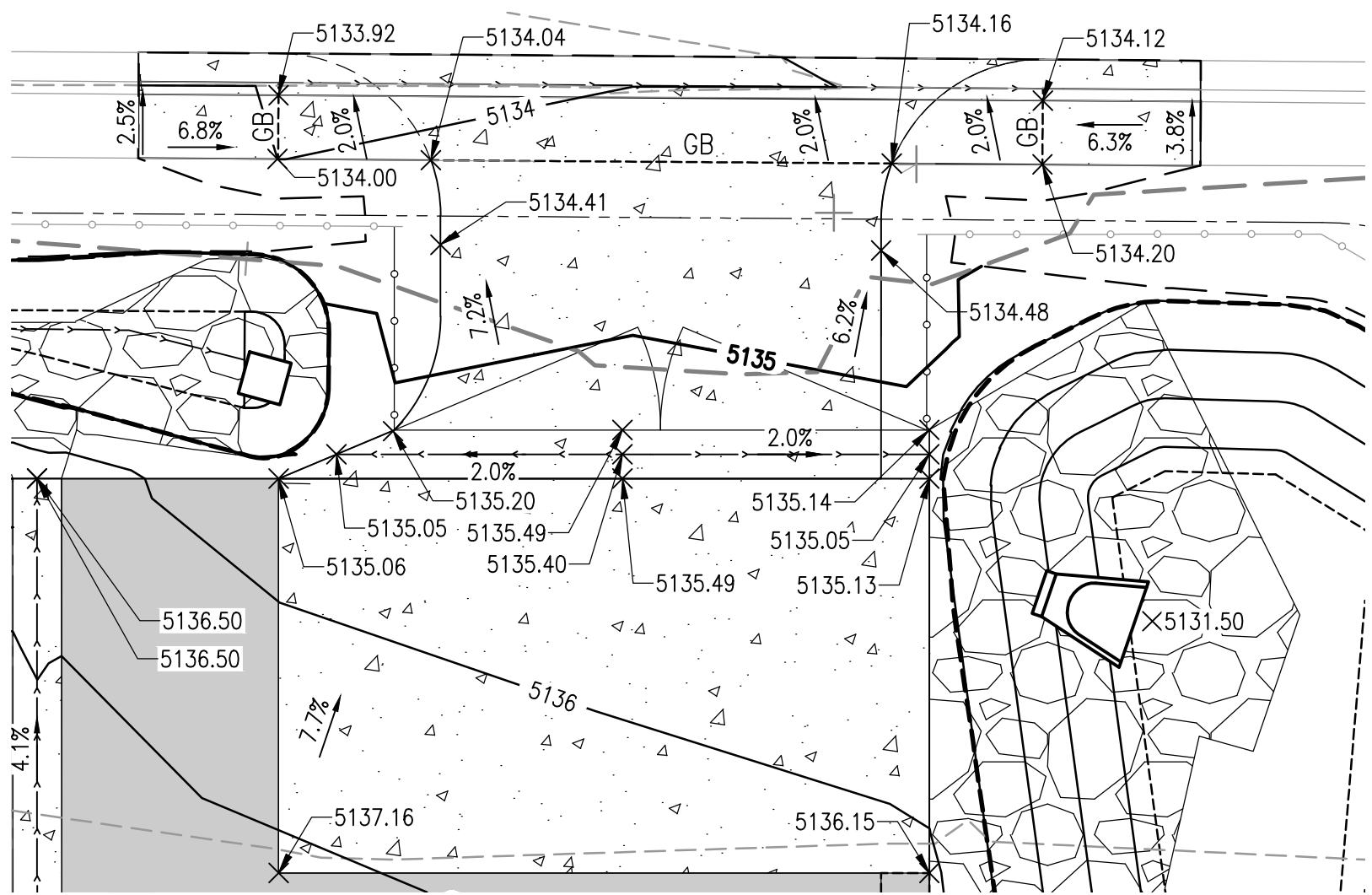
-				SCALE:		DESIGN TRACKING				SUBMITTED BY:				AS BUILT INFORMATION				ENGINEER'S SEAL		<div>ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY</div> <div>TITLE: SANTA BARBARA ARSENIC TREATMENT FACILITY YARD PIPING PLAN</div> <div>WATER AUTHORITY CONSTRUCTION PROJECT NO. 2308.010</div> <div>ZONE MAP NO. H-16-Z</div> <div>SHEET C-6</div>			
-				1"=20'		DESIGNED BY: E. BABCOCK		DATE: 08/25		<div><div>6001 Indian School Road, N.E. Suite 310 Albuquerque, New Mexico 87110 Tel: (505) 243-3200</div></div>				CONTRACTOR COMPANY NAME				<div></div>					
-				DRAWN BY: D. KURIL		DATE: 08/25		CONSTRUCTION BEGIN DATE MMM. YYYY															
-				ATTENTION		CHECKED BY: A. GOH		DATE: 08/25						INSPECTOR'S ACCEPTANCE BY COMPANY NAME DATE MMM. YYYY									
-				0 1/2" 1"		CROSS CHK'D BY: P. TAURASI		DATE: 08/25						INSPECTOR'S NAME NAME									
-						APPROVED BY: A. GOH		DATE: 08/25						SUBSTANTIAL COMPLETION DATE MMM. YYYY									
-				GRAPHIC SCALE		MAPS/RECORDS INFO.		DRAWINGS CORRECTED BY COMPANY NAME DATE MMM. YYYY						08/12/2025									
-				THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)																			
NO.		DATE		REVISION NO. & DESCRIPTION		BY																	

NOT FOR CONSTRUCTION – FOR PERMIT ONLY



- NOTES:
- TOC ELEVATION OF EQUIPMENT PADS AND LANDINGS SHALL BE 6 INCHES ABOVE FINISH GRADE.
 - ALL DISTURBED AND UNPAVED AREAS WITHIN THE LIMITS OF GRADING SHALL BE SEEDED. REVEGETATIVE SEEDING SHALL BE "SANDY SOILS" FOURWING SAL BUSH, ATRIPLEX CANESCENS, SAND VERBENA, ABORNIA VILLOSA DESERT MARIGOLD, BAILEYA MULTIRADIATA.
 - ALL SPOT ELEVATIONS INDICATE ELEVATION OF FINISH GRADE.
- KEYED NOTES:
- CONCRETE DRIVEWAY ENTRY WITH SIDEWALK RAMPS PER COA STANDARD DRAWING 2426. SEE DETAILS A, B, AND C ON SHEET CD-15.
 - 30-FOOT WIDE DOUBLE LEAD CHAIN-LINK VEHICLE GATE. SEE COA STANDARD DWG 2252. ADD 3-STRAND BARBED WIRE TO GATE AND FENCE TO MATCH EXISTING FENCE AND MATCH EXISTING FENCE HEIGHT.
 - CONCRETE V-DITCH PER DETAIL B/C-16.
 - EARTHEN BERM.


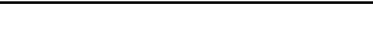


- LEGEND
- CONCRETE
 - BASE COURSE DRIVE
 - RIPRAP
 - EXISTING CONTOUR AND ELEVATION
 - NEW CONTOUR AND ELEVATION
 - SPOT ELEVATION
 - LIMITS OF GRADING
 - GRADE BREAK



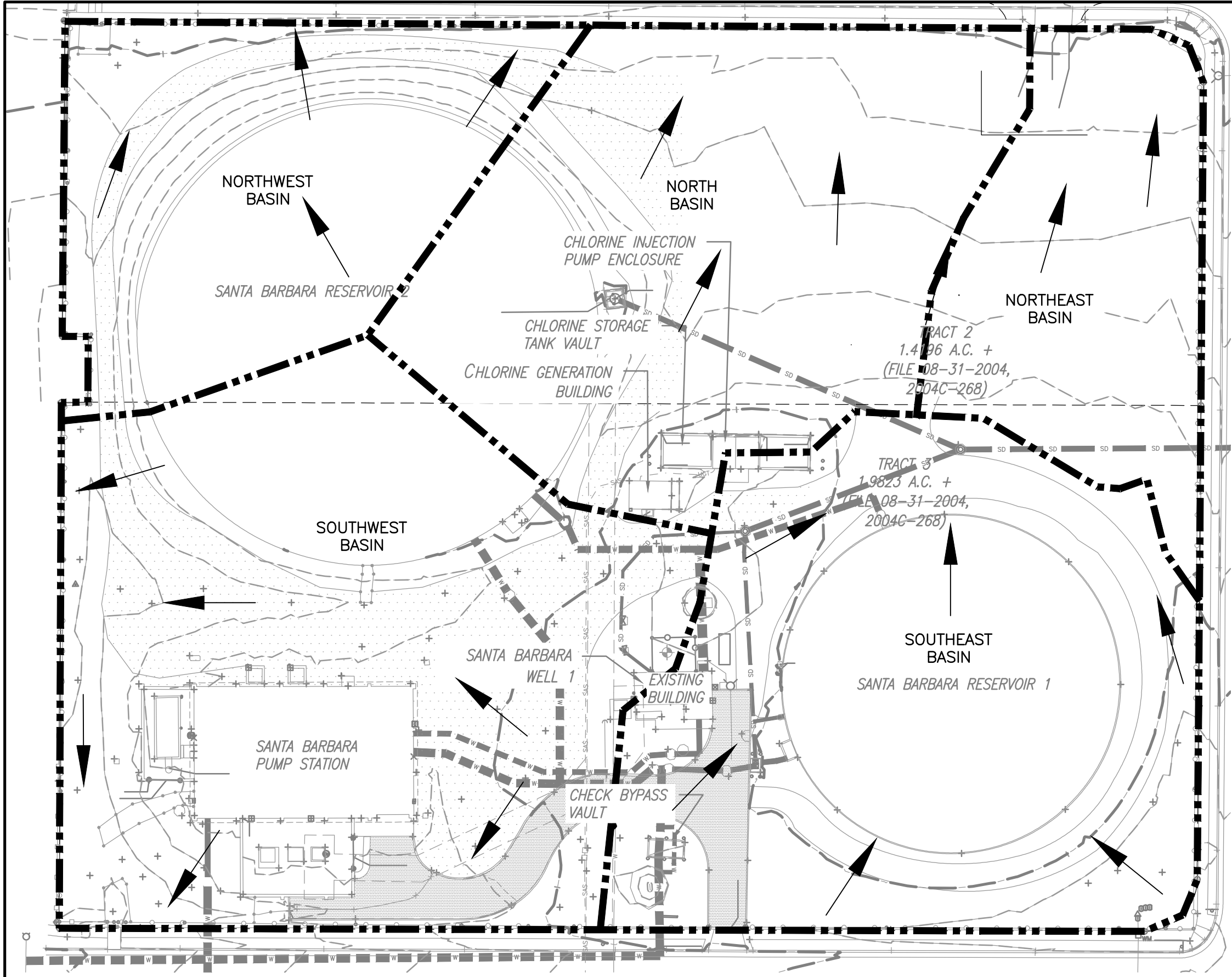
ENLARGED
PLAN

1" = 10'

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-				ATTENTION		DRAWN BY:	D. KURIL	DATE:	08/25				CONSTRUCTION			BEGIN DATE			MMM. YYYY					
-				0 1/2" 1"		CHECKED BY:	A. GOH	DATE:	08/25				INSPECTOR'S			ACCEPTANCE BY			COMPANY NAME			DATE MMM. YYYY		
-						CROSS CHK'D BY:	P. TAURASI	DATE:	08/25				INSPECTOR'S NAME			NAME								
-				GRAPHIC SCALE		APPROVED BY:	A. GOH	DATE:	08/25				SUBSTANTIAL			COMPLETION DATE			MMM. YYYY					
-				THIS BAR MEASURES 1" AT FULL SCALE (ANSI D)		MAPS/RECORDS INFO.						DRAWINGS			CORRECTED BY			COMPANY NAME			DATE MMM. YYYY			
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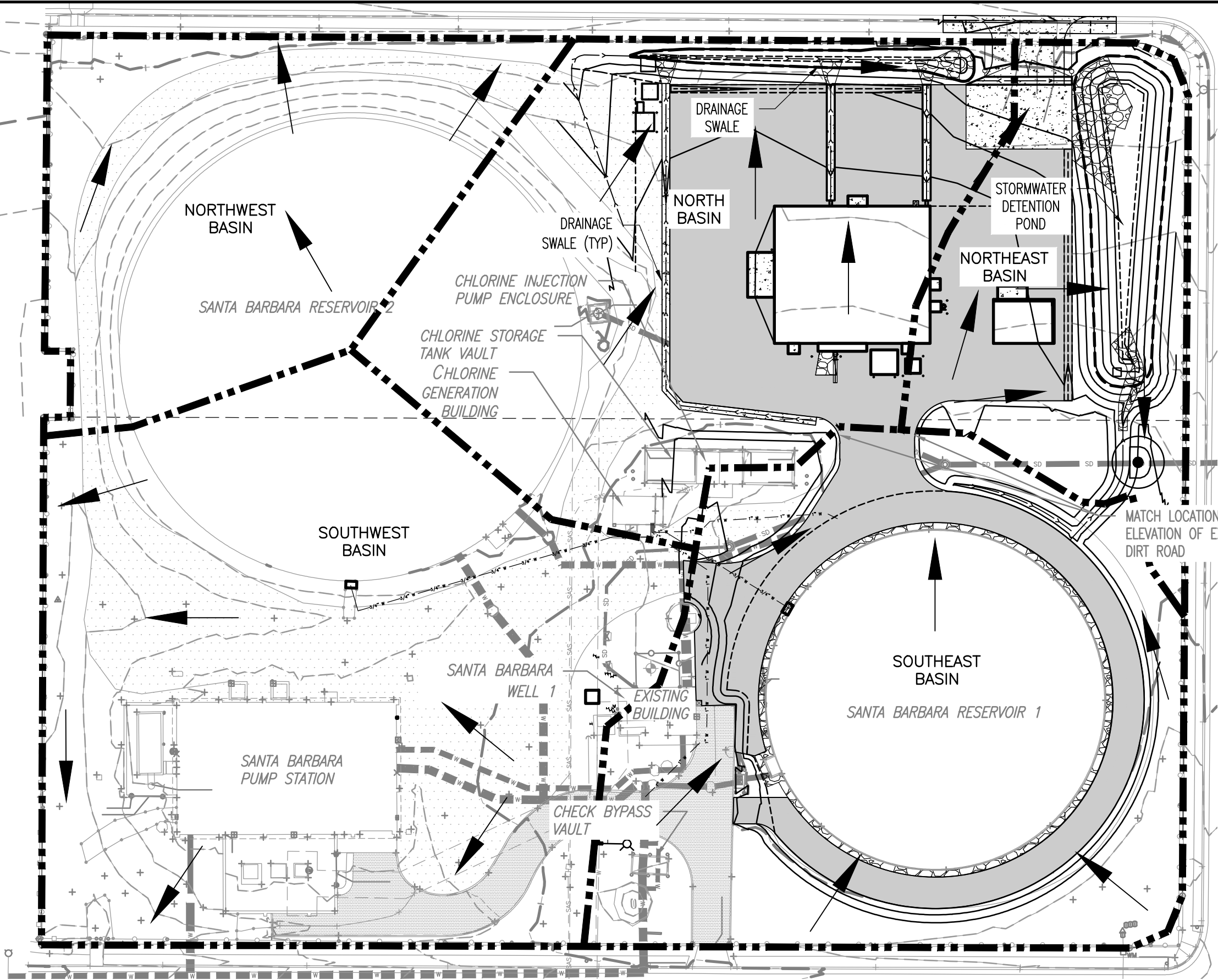
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EXISTING CONDITIONS

PLAN

1" = 40'-0"



PROPOSED CONDITIONS

PLAN

1" = 40'-0"

DRAINAGE ANALYSIS APPROACH:

THE DRAINAGE ANALYSIS FOR THE SITE WAS PERFORMED IN ACCORDANCE WITH METHODS OUTLINED IN THE DEVELOPMENT PROCESS MANUAL (DPM) CHAPTER 6, ARTICLE 6-2, SECTION 6.2 (A), ENTITLED "PROCEDURE FOR 40-ACRE OR SMALLER BASINS." THE DESIGN STORM USED FOR BOTH EXISTING AND DEVELOPED CONDITIONS IS THE 100-YEAR 6-HOUR STORM EVENT FOR RUNOFF. RUNOFF VOLUMES FOR BOTH EXISTING AND PROPOSED CONDITIONS WERE CALCULATED WITH 100-YEAR 6-HOUR EXCESS PRECIPITATION VALUES FROM THE DPM BASED ON ZONE 3. PEAK DISCHARGE FLOW RATES WERE CALCULATED USING THE RATIONAL METHOD FOR THE 100-YEAR EVENT ASSUMING A TIME OF CONCENTRATION DURATION OF 12 MINUTES IN ZONE 3. THE REQUIRED STORMWATER QUALITY VOLUME (SWQV) WAS CALCULATED AS SPECIFIED FOR REDEVELOPMENT PROJECTS IN THE DPM PART 6-12 STORMWATER QUALITY AND LOW-IMPACT DEVELOPMENT.

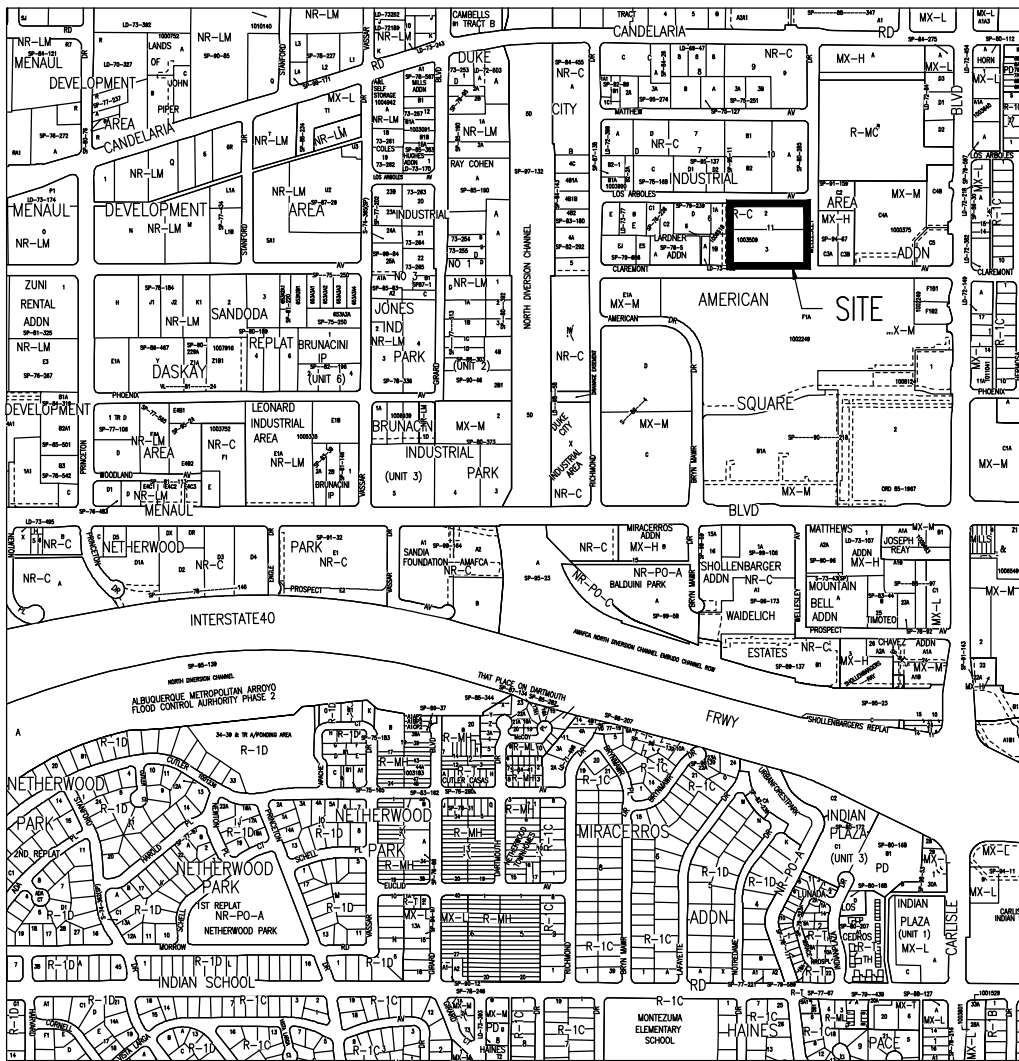
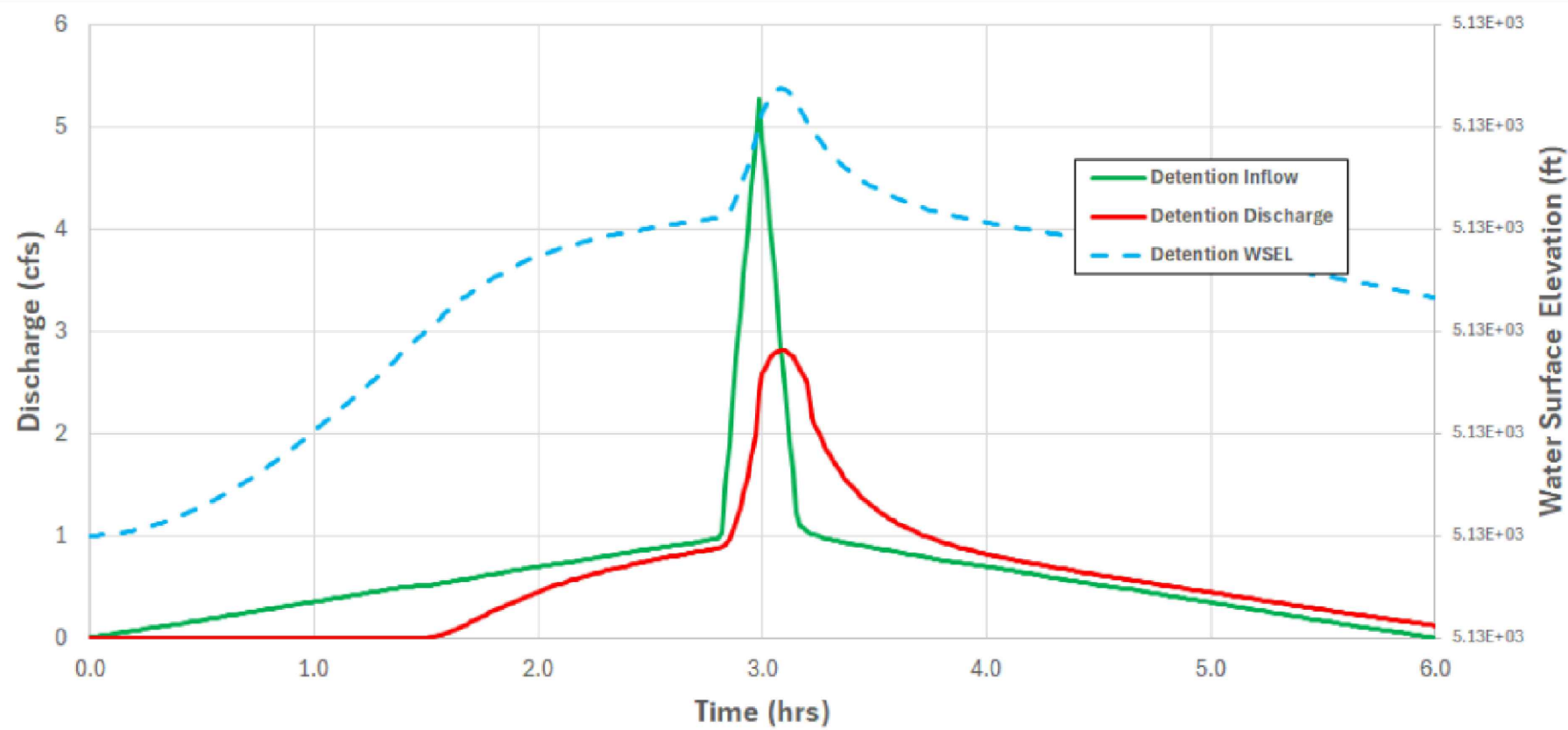
EXISTING CONDITIONS:

THE SANTA BARBARA PUMP STATION AND RESERVOIR SITE IS LOCATED JUST EAST OF WELLESLEY DRIVE NE, BETWEEN LOS ARBOLES AVENUE NE AND CLAREMONT AVENUE NE. THE SITE HOUSES TWO WATER STORAGE RESERVOIRS, SEVERAL BUILDINGS, UNDERGROUND STRUCTURES, AND UNDERGROUND PIPING. LAND TREATMENT IS A MIXTURE OF ASPHALT PAVEMENT, DIRT ROADS, AND UNPAVED AREAS WITH GENTLE SLOPES BETWEEN 0 TO 10%. UNDER EXISTING CONDITIONS, THE SITE IS COMPRISED OF FIVE DRAINAGE SUBBASINS, ALL OF WHICH DISCHARGE SURFACE RUNOFF INTO THE PUBLIC RIGHT-OF-WAY TO THE NORTH, EAST, AND SOUTH OF THE SITE. NO SUBSURFACE STORMWATER COLLECTION SYSTEM EXISTS ON THE SITE. WHILE A 24-INCH DIAMETER REINFORCED CONCRETE PIPE (RCP) ARE USED TO CONVEY EMERGENCY OVERFLOW FROM THE RESERVOIRS TO THE COA MUNICIPAL STORM DRAIN SYSTEM ON WELLESLEY DR NE, NO STORMWATER RUNOFF CURRENTLY DISCHARGES INTO THE COA STORM DRAIN SYSTEM.

PROPOSED CONDITIONS:

THE PROPOSED REDEVELOPMENT COMPRISES OF A NEW ARSENIC TREATMENT BUILDING AND A CHEMICAL STORAGE ENCLOSURE IN THE NORTHEAST AREA OF THE SITE THAT IS CURRENTLY VACANT. THE GRADING PLAN WILL EXPAND THE EXISTING DRIVEWAY ON LOS ARBOLES AVENUE NE WITH NEW COMPACTED CRUSHER FINES DRIVING AREAS SURROUNDING THE NEW TREATMENT FACILITIES. THE GRADING PLAN WILL ALSO IMPROVE CONDITIONS AROUND RESERVOIR 1 IN THE SOUTEAST AREA OF THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE RESERVOIR RINGWALL. THE PROPOSED REDEVELOPMENT WILL PRIMARILY IMPACT THREE OUT OF THE FIVE DRAINAGE SUBBASINS ON THE SITE: NORTH, NORTHEAST, AND SOUTHEAST. RUNOFF IN THE NORTH BASIN WILL BE DIRECTED OVERLAND TO A NEW DRAINAGE SWALE THAT RUNS ALONG THE NORTH PERIMETER OF THE SITE BEFORE DISCHARGING INTO A NEW DETENTION POND LOCATED IN THE NORTHEAST SUBBASIN. RUNOFF FROM THE SOUTHEAST SUBBASIN WILL ALSO BE ROUTED OVERLAND INTO A SWALE THAT DISCHARGES INTO THE NEW DETENTION BASIN IN THE NORTHEAST CORNER OF THE SITE.

BASED ON E-MAIL COMMUNICATION FROM COA HYDROLOGY ON DECEMBER 4, 2024, WHILE EXISTING SITE RUNOFF DO NOT CURRENTLY DISCHARGE INTO THE COA STORM DRAIN SYSTEM ON WELLESLEY DR NE, THE PROJECT IS ALLOWED TO CONNECT AND DISCHARGE POST-DEVELOPMENT RUNOFF TO THE SYSTEM ON WELLESLEY DR NE. THE PROJECT HAS BEEN GRANTED AN EXEMPTION FROM CONDUCTING A DOWNSTREAM ANALYSIS AS LONG AS THE PROPOSED DETENTION POND AND ORIFICE OUTLET STRUCTURE IS DESIGNED TO RELEASE POST-DEVELOPMENT STORMWATER RUNOFF AT OR BELOW THE CALCULATED HISTORICAL RATE.



ZONE ATLAS PAGE: H-16-Z

LEGAL DESCRIPTION: TRACTS 2 AND 3, PLAT OF TRACTS 1, 2, AND 3, BLOCKS 6 AND 11, ALBUQUERQUE, NEW MEXICO.

BASED ON THE FEMA NATIONAL FLOOD HAZARD LAYER FIRMETTE, THE SITE IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA. THE NEAREST MAPPED FLOOD ZONES (ZONES A AND AO) ARE MORE THAN 0.20 MILES AWAY AND DO NOT IMPACT THE SITE.

SITE AREA: 3.5 AC





DRAINAGE ANALYSIS RESULTS:

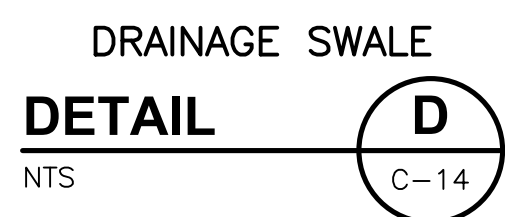
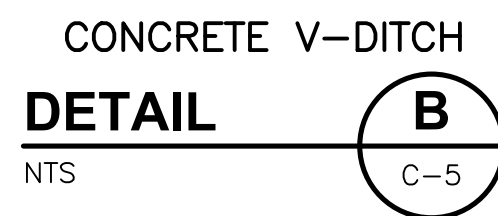
FOR THE THREE IMPACTED SUBBASINS, THE PEAK RUNOFF UNDER EXISTING CONDITIONS IS 4.63 CFS DURING A 100-YEAR 6-HOUR STORM EVENT. FOR THE THREE IMPACTED SUBBASINS, THE PEAK RUNOFF UNDER PROPOSED CONDITIONS WITHOUT ATTENUATION IS 5.46 CFS DURING A 100-YEAR 6-HOUR STORM EVENT. FOR THE THREE IMPACTED SUBBASINS, THE SWQV UNDER PROPOSED CONDITIONS IS 996 CF REQUIRED TO BE RETAINED ONSITE.


TO ATTENUATE THE POST-DEVELOPMENT 100-YEAR 6-HOUR HYDROGRAPH, A DETENTION POND IS PROPOSED IN THE NORTHEAST CORNER OF THE SITE TO PROVIDE STORAGE VOLUME TO CAPTURE THE HIGHER STORM INFLOW BEFORE DISCHARGING TO WELLESLEY DR NE AT OR BELOW HISTORICAL RUNOFF RATES. THE POND OUTLET STRUCTURE CONSISTS OF A 12-INCH ORIFICE THAT DISCHARGES TO A NEW 15-INCH RCP CONNECTOR TO THE EXISTING 24-INCH RESERVOIR OVERFLOW RCP DRAIN. BASED ON A MEETING WITH COA HYDROLOGY ON MAY 1, 2025, THE HYDRAULIC GRADE LINE (HGL) IN THE DOWNSTREAM STORM DRAIN SYSTEM ON WELLESLEY DR NE IS NOT EXPECTED TO BACK UP TO THE EXISTING 24-INCH RESERVOIR OVERFLOW RCP DRAIN. THEREFORE, NO TAILWATER CONDITIONS IN THE 24-INCH RESERVOIR OVERFLOW RCP DRAIN WAS ASSUMED FOR THE DESIGN OF THE NEW DETENTION POND AND ORIFICE OUTLET STRUCTURE.

A SWMM MODEL WAS DEVELOPED ALONG WITH A SIMPLIFIED HYDROGRAPH TO ROUTE THE 100-YEAR, 6-HOUR STORM THROUGH THE DETENTION POND. THE HYDROGRAPH PLACED THE PEAK FLOW RATE OF 5.46 CFS LINEARLY INTERPOLATED VALUES FROM TIME 0:00 AND 6:00, AND THEN APPLIED A CONSTANT REDUCTION FACTOR TO EACH INTERPOLATED VALUE UNTIL THE TOTAL RUNOFF VOLUME EQUATED TO TOTAL BASIN RUNOFF OF 13,929 CF. THE SYNTHETICALLY DEVELOPED SITE INFLOW HYDROGRAPH WAS ENTERED INTO THE SWMM MODEL AS A TIME-SERIES WITH 10-MINUTE INCREMENTS AND RESULTS WERE CALCULATED ON 1-MINUTE INCREMENTS. THE MODEL WAS RUN FOR A TOTAL OF 8-HOURS TO ENSURE ALL FLOW WAS EITHER RETAINED OR DISCHARGED. THE GRAPH BELOW SHOWS THE INFLOW AND OUTFLOW HYDROGRAPHS ALONG WITH THE POND STORAGE OVER TIME. THE MODEL SHOWS THAT WITH A 12-INCH ORIFICE SET AT INVERT ELEVATION 5133 FT, THE RESULTING PEAK WAS SURFACE ELEVATION IS APPROXIMATELY 5134.19 DURING THE 100-YEAR, 6-HOUR STORM PEAK AND THE PEAK ATTENUATED DISCHARGE FLOW RATE IS APPROXIMATELY 2.8 CFS.

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

—		—		—		—		SCALE:		DESIGN TRACKING				SUBMITTED BY:				AS BUILT INFORMATION				ENGINEER'S SEAL		<div><div></div><div>ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY</div><div>TITLE:<div>SANTA BARBARA ARSENIC TREATMENT FACILITY DRAINAGE PLAN – HYDROLOGY</div></div></div>			
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				-		DESIGNED BY: E. BABCOCK DATE: 08/25			<div>CDM Smith</div> <div>6001 Indian School Road, N.E. Suite 310 Albuquerque, New Mexico 87110 Tel: (505) 243-3200</div>			CONTRACTOR COMPANY NAME			<div>ARTHUR T. GOH NEW MEXICO 30704 PROFESSIONAL ENGINEER</div>		TITLE: SANTA BARBARA ARSENIC TREATMENT FACILITY GRADING AND DRAINAGE DETAILS II					
				DRAWN BY: D. KURIL DATE: 08/25			CONSTRUCTION BEGIN DATE MMM. YYYY															
				CHECKED BY: A. GOH DATE: 08/25			INSPECTOR'S ACCEPTANCE BY COMPANY NAME DATE MMM. YYYY															
				CROSS CHK'D BY: P. TAURASI DATE: 08/25			INSPECTOR'S NAME NAME															
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