

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

January 31, 2023

David Aube, P.E.
Cushing Terrell
306 W. Railroad St., Ste. 104
Missoula, MT 59802

**RE: RE: Phil Chacon Memorial Substation SE Area Command Addition
800 Louisiana Blvd. SE
Grading and Drainage Plan – Phase 2
Engineer's Stamp Date: 1/27/2023
Hydrology File: L19D043**

Dear Mr. Aube,

Based upon the information provided in your submittal received 1/30/2023, the Grading & Drainage Plan is approved for Building Permit approval. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PRIOR TO CERTIFICATE OF OCCUPANCY:

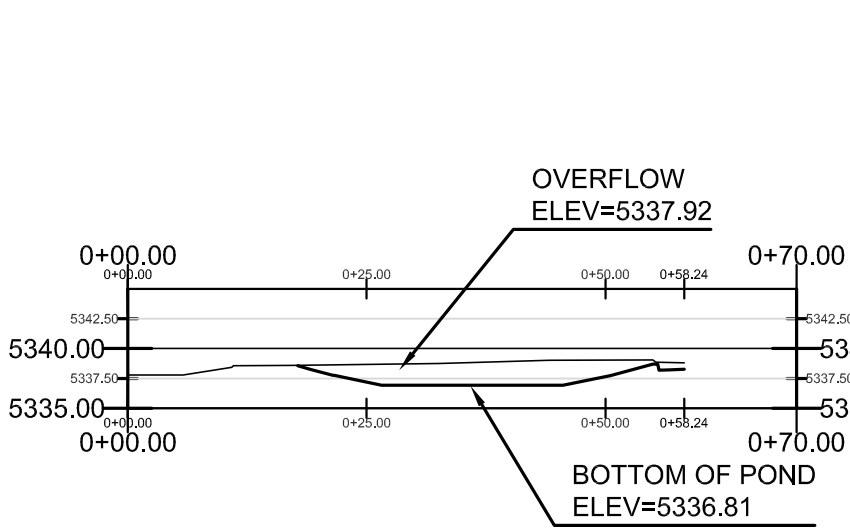
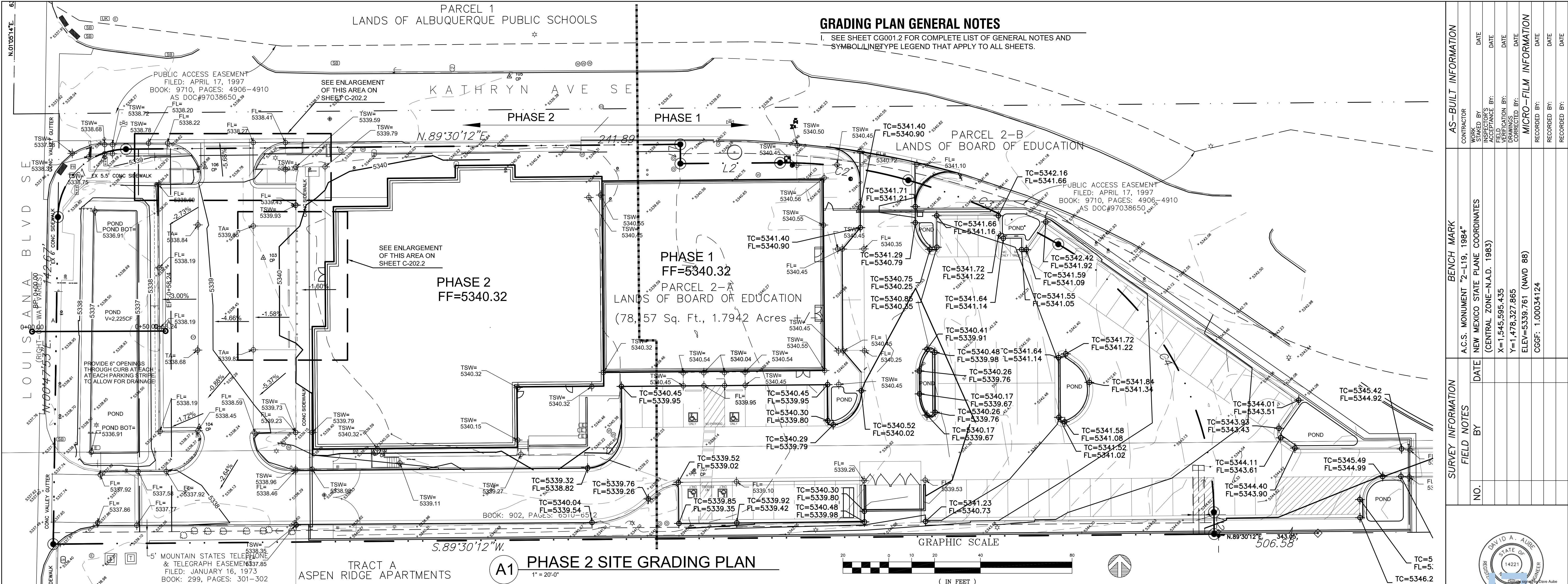
Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.

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.

If you have any questions, please contact me at 505-924-3695 or tchen@cabq.gov.

Sincerely,

Tiequan Chen, P.E.
Principal Engineer, Hydrology
Planning Department, Development Review Services



POND SECTION A-A

SCALE: 1"=20' HORIZ, 1"=4' VERT

100-YEAR HYDROLOGIC CALCULATIONS

BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	100-YEAR PRECIPITATION				
		A (%)	B (%)	C (%)	D (%)		V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V(24-hr) (acre-ft)	V(24-hr) (cu-ft)	Q (cfs)
EXISTING CONDITIONS											
SITE	2.0000	0.00	16.00	16.00	68.00	1.96	0.33	14,218	0.38	16,686	8.76
TOTAL RUNOFF	2.000						0.33	14,218	0.38	16,686	8.76
PROPOSED CONDITIONS											
SITE	2.0000	0.00	10.50	10.50	79.00	2.10	0.35	15,220	0.42	18,088	9.20
TOTAL RUNOFF	2.000						0.35	15,220	0.42	18,088	9.20
EXCESS PRECIP.		0.66	0.92	1.29	2.36	E (in)					
PEAK DISCHARGE		1.87	2.6	3.45	5.02	Q _{PI} (cfs)					

WEIGHTED E (in) = (E_A)(%A) + (E_B)(%B) + (E_C)(%C) + (E_D)(%D)

V_{6-HR} (acre-ft) = (WEIGHTED E)(AREA)/12

V_{10DAY} (acre-ft) = V_{6-HR} + (A₀)(P_{10DAY} - P_{6-HR})/12

Q (cfs) = (Q_{PA})(A_A) + (Q_{PB})(A_B) + (Q_{PC})(A_C) + (Q_{PD})(A_D)

ZONE = 3

P_{6-HR} (in.) = 2.60

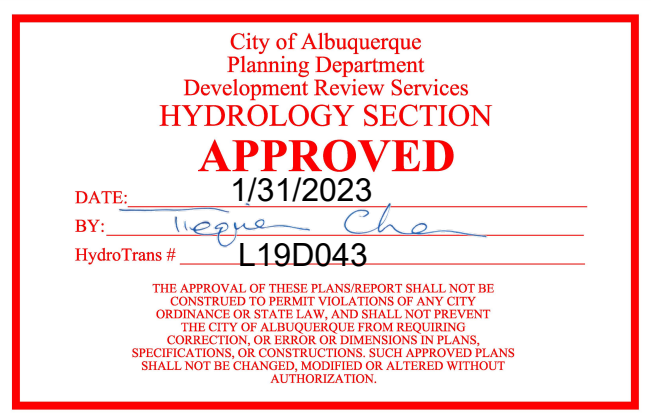
P_{24-HR} (in.) = 3.10

P_{10DAY} (in.) = 4.90

THE PARCEL IS LOCATED IN SOUTHEAST ALBUQUERQUE AT THE SOUTHEAST CORNER OF THE LOUISIANA/KATHRYN INTERSECTION. CURRENTLY THE SITE DRAINS FROM NORTHEAST TO SOUTHWEST TO THE EXISTING FACILITY PARKING AREA AND THEN ONTO LOUISIANA. THE EXISTING PEAK RUNOFF FROM THE PARCEL UNDER EXISTING CONDITIONS IS 8.76 CFS DURING A 100-YEAR, 6-HOUR STORM. THERE ARE NO OFF-SITE FLOWS THAT REACH THE PROPERTY.

DEVELOPED DRAINAGE CONDITIONS:

THIS PROJECT INVOLVES THE CONSTRUCTION OF PHASE 1 IMPROVEMENTS TO THE SITE INCLUDING A NEW BUILDING, REVISED PARKING AREA AND LANDSCAPING LOCATED IN THE EASTERN PORTION OF THE SITE. PHASE 2 OF THE PROJECT WILL REMOVE AND RECONSTRUCT THE EXISTING BUILDING LOCATED ON THE WEST HALF OF THE SITE. THE SITE WILL CONTINUE TO DRAIN FROM NORTHEAST TO SOUTHWEST THROUGH THE EXISTING FACILITY TO LOUISIANA BLVD.



LEGEND

xx.xx SPOT ELEVATION

FLOW ARROW

NEW CURB AND GUTTER & SIDEWALK

EX CURB AND GUTTER & SIDEWALK

PROPERTY LINE

(S 83°39'25" W) RECORD BEARING AND DISTANCES

N 00°07'27" W MEASURED BEARING AND DISTANCES

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CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM			
PROJECT TITLE: PHIL CHACON MEMORIAL SUBSTATION SOUTHEAST AREA COMMAND - EXPANSION (PHASE II)			
DRAWING TITLE: PHASE 2 SITE GRADING PLAN			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
Last Design Update			
PERMIT SET	City Project No. 7825921	Zone Map L-19-X	Sheet C-201.2

CIVIL CONSTRUCTION NOTES:

A. GENERAL

1.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE AND LOCATION OF ALL UNDERGROUND OR CONCEALED UTILITIES IN ADVANCE OF ANY CONSTRUCTION.
2.

THE CONTRACTOR SHALL REPAIR ANY AND ALL INFRASTRUCTURE DAMAGED DURING THE COURSE OF CONSTRUCTION IN ACCORDANCE WITH NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
3.

THE JOB SITE, AT THE COMPLETION OF CONSTRUCTION, SHALL BE CLEANED OF ANY DEBRIS OR SPOILS RESULTING FROM THE CONSTRUCTION.
4.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE JOB SITE TO FAMILIARIZE HERSELF/HIMSELF WITH ALL THE EXISTING CONDITIONS THAT COULD AFFECT THE INSTALLATION OF ANY WORK SET FORTH IN THESE PLANS.
5.

ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
6.

THE CONTRACTOR SHALL NOT INSTALL ITEMS AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS THAT FIELD CONDITIONS ARE DIFFERENT THAN SHOWN IN THE DESIGN. SUCH CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER. IN THE EVENT THE CONTRACTOR DOES NOT NOTIFY THE CONSTRUCTION MANAGER, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE FOR ANY REVISIONS NECESSARY.
7.

EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
8.

EXISTING FENCING THAT IS NOT DESIGNATED FOR REMOVAL SHALL NOT BE DISTURBED. ANY FENCING THAT IS DISTURBED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IF THE CONTRACTOR WOULD LIKE TO REMOVE FENCING TO FACILITATE CONSTRUCTION OPERATIONS, THIS MAY BE DONE WITH THE OWNER'S PERMISSION, AND THE CONTRACTOR SHALL RESTORE THE FENCE TO ITS ORIGINAL CONDITION PRIOR TO THE CLOSE OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR SECURITY OF THE SITE UNTIL THE FENCE IS REPLACED.
9.

ALL EXISTING MAINLINE UTILITIES ARE TO REMAIN IN PLACE AND ARE TO BE PROTECTED DURING DEMOLITION AND CONSTRUCTION.
10.

NEITHER THE OWNER, CONSTRUCTION MANAGER, NOR THE ARCHITECT OR ENGINEER OF RECORD WILL ENFORCE ANY SAFETY MEASURE OR REGULATION. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING TRAFFIC CONTROL, SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. IF ANYONE IN AS AUTHORITY OR SUPERVISORY POSITION SEES ANYTHING WRONG OR A SERIOUS LIFE THREATENING SITUATION CAUSED BY THE CONTRACTOR, THAT PERSON SHALL HAVE THE RIGHT TO STOP THE JOB AND DEMAND THAT THE CONTRACTOR IMMEDIATELY CORRECTS THE WRONG-DOING.
11.

CONTRACTOR WILL BE RESPONSIBLE FOR ANY MONUMENTATION AND/OR BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR.
12.

ANY WORK DONE WITHOUT INSPECTION OR TESTING IS SUBJECT TO REMOVAL OR CORRECTION. THE CONTRACTOR SHALL PROVIDE A SIGNED DOCUMENT SHOWING PROOF OF INSPECTION AND/OR TESTING.
13.

THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NOR SHALL HE/SHE BE REQUIRED TO SUPERVISE THE CONDUCT OF THE WORK OR THE CONSTRUCTION PROCEDURES AND SAFETY PROCEDURES FOLLOWED BY THE CONTRACTOR OR THE SUBCONTRACTOR OR THEIR RESPECTIVE EMPLOYEES OR BY ANY OTHER PERSON AT THE JOB SITE OTHER THAN THAT OF THE ENGINEER'S EMPLOYEES.
14.

CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY 24 HOURS A DAY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, CONSTRUCTION MANAGER AND ENGINEER HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON HIS/HER PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
15.

ALL EXISTING TOPO, EXISTING BOUNDARY, EXISTING EASEMENT INFORMATION, & EXISTING UTILITIES SHOWN ON THE PLANS DRAWINGS WERE OBTAINED FROM THE SURVEY AS OBTAINED FROM WILSON AND COMPANY.
16.

THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION AS PREPARED BY GEOTEST.
17.

THE CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY COMPANIES AT THE NEW MEXICO ONE CALL TWO (2) WORKING DAYS PRIOR TO ANY DIGGING OR EXCAVATION.

B. DEMOLITION

1.

PROTECT THE EXISTING WATERLINE MAINS ON THE SITE AS SHOWN ON THE PLANS.
2.

REMOVE AND DISPOSE OF ANY ADJACENT SIDEWALKS, STEPS, ASPHALT PAVEMENT, DRIVEPADS, SHEDS, FENCES, DEBRIS AND OTHER NON-CLASSIFIED MATERIAL, ETC. IF ANY ITEM APPEARS TO BE QUESTIONABLE, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED FOR CONCURRENCE.

C. PAVING

1.

WHEN ABUTTING NEW PAVEMENT TO EXISTING, SAWCUT THE EXISTING PAVEMENT TO A NEAT, STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW PAVING TO EXISTING.
2.

ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.
3.

ALL EXISTING WATER VALVE BOXES, ELECTRICAL, TELEPHONE, TV AND SEWER MANHOLES IN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISHED GRADE.
4.

ALL STATIONING IS TO CONSTRUCTION BASELINES UNLESS OTHERWISE NOTED.
5.

ALL SLOPES AND GRADES ARE IN FEET/FOOT UNLESS OTHERWISE NOTED.
6.

ALL SURFACES ALONG ACCESSIBLE ROUTES AND FOR HANDICAP RAMPS SHALL BE STABLE, FIRM, SLIDE-RESISTANT, AND SHALL COMPLY WITH UNIFORM FEDERAL ACCESSIBILITY STANDARDS, PARAGRAPH 4.5.
7.

LONGITUDINAL SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS, EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:20. CROSS SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:48. SLOPES IN ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND PASSENGER LOADING ZONES SHALL NOT BE STEEPER THAN 1:48 IN ALL DIRECTIONS.
8.

THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TRAFFIC CONTROL PLANS, ALL SIGNS, BARRICADES, CHANNELIZATION DEVICES, SIGN FRAMES AND ERECTION OF SUCH DEVICES SHALL CONFORM TO THE REQUIREMENTS OF CITY OF ALBUQUERQUE TRAFFIC CONTROL DEPARTMENTS.

D. UTILITIES

1.

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED TO THE ENGINEER BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK.
2.

THE EXISTING UTILITIES DEPICTED ON THESE PLANS WERE DERIVED FROM INFORMATION PROVIDED TO THE ENGINEER BY OTHERS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF PERTINENT UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. CONTRACTOR IS TO EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ANY POTENTIAL DISRUPTIONS IN UTILITY SERVICE WITH THE UTILITY COMPANIES AFFECTED AT LEAST 48 HOURS PRIOR TO THE DISRUPTION.
3.

CONTRACTOR SHALL EXPOSE AND VERIFY INVERT ELEVATIONS OF RELEVANT SANITARY SEWER LINES BEFORE SETTING ANY NEW INVERTS. SHOULD INVERTS DIFFER MORE THAN 0.20' FROM THOSE SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED TO DETERMINE ANY RESULTING CHANGES IN DESIGN.
4.

REFERENCE MADE TO APWA REFERS TO AMERICAN PUBLIC WORKS ASSOCIATION.
5.

ALL NEW AND EXISTING FRAMES, COVERS, VALVE BOXES, ETC. SHALL BE ADJUSTED TO NEW FINISHED GRADE PRIOR TO PLACING OF ASPHALT CONCRETE SURFACE COURSE BY THE CONTRACTOR.
6.

THE CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY COMPANIES AT THE NEW MEXICO ONE CALL TWO (2) WORKING DAYS PRIOR TO ANY DIGGING OR EXCAVATION.

E. EROSION CONTROL, ENVIRONMENTAL PROTECTION, AND STORM WATER, POLLUTION PREVENTION PLAN.

1.

THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR SHALL PREPARE AND OBTAIN ANY NECESSARY DUST OR EROSION CONTROL PERMITS FROM REGULATORY AGENCIES.
2.

THE CONTRACTOR SHALL PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITHIN THE RIGHT-OF-WAY TO KEEP IT FROM WASHING OFF THE PROJECT SITE.
3.

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS OR INSTALLING SILT FENCES AT THE PROJECT BOUNDARY LINES AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
4.

WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE THEREFORE. CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL IN COMPLIANCE WITH GOVERNMENT ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED.
5.

ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY LANDSCAPING OR AN IMPERVIOUS SURFACE SHALL BE REVEGETATED WITH RECLAMATION SEEDING.
6.

THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL ASPHALT REMOVED ON THE PROJECT BY HAULING TO AN APPROVED LANDFILL IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF NEW MEXICO, AND BERNALILLO COUNTY.

E. EROSION CONTROL, ENVIRONMENTAL PROTECTION, AND STORM WATER, POLLUTION PREVENTION PLAN (CONTINUED).

7.

ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.), GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC. SHALL BE APPROPRIATELY DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS REQUIRED FOR HAUL OR DISPOSAL OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES, AND ARCHAEOLOGICAL RESOURCES.
8.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE CLEAN-UP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION OPERATIONS. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINT, ETC. WHICH MAY BE A THREAT TO THE ENVIRONMENT.
9.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.
10.

THE CONTRACTOR SHALL APPRISE HIMSELF OF ALL AIR POLLUTION CONTROL REGULATIONS OF BERNALILLO COUNTY AND CITY OF ALBUQUERQUE PRIOR TO BIDDING AND PERFORMING THE WORK.
11.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATIONS.
12.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS FOR STORM WATER POLLUTION PREVENTION AND MAKE ALL SUCH APPLICATIONS; NOTICE OF INTENTS AND POLLUTION PREVENTION PLANS AS REQUIRED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA).

CIVIL MASTER LEGEND:

	EXISTING:	DEMOLITION:	NEW:
PROPERTY LINE	— . . — . . —		
BUILDING	////	-----	=====
EDGE OF PAVEMENT	=====	-----	=====
CURB & GUTTER	=====	=====	=====
PAVEMENT STRIPING		=====	=====
FENCE	— X — X —	— X — X —	— X — X —
CMU OR BLOCK WALL	=====	=====	=====
UTILITY EASEMENT	— . . — . . —		— . . — . . —
UNDERGROUND ELECTRIC LINE	— — UGE — —	-----UGE-----	--- UGE ---
OVERHEAD ELECTRIC LINE	— — OHE — —	-----OHE-----	--- OHE ---
NATURAL GAS LINE	— — MG — —		--- MG ---
WATER LINE	— — 8W — —	----- 8W -----	--- 8W ---
SANITARY SEWER LINE	— — SS — —	-----SS-----	--- SS ---
STORM DRAIN LINE	— — SD — —	-----SD-----	--- SD ---
INDEX CONTOURS	—— 25 ——		—— 25 ——
INTERMEDIATE CONTOURS	—— 24 ——		—— 24 ——
POWER POLE	⊙		⊙
LIGHT POLE	☆		⬢
ELECTRICAL TRANSFORMER	⌈		⌈
NATURAL GAS METER	⊙		⊙
WATER VALVE	⌘		⌘
FIRE HYDRANT	⊙		⬢
WATER METER	⌈		⬢
POST INDICATOR VALVE	⬢		⬢
SIAMESE CONNECTION	⬢		⬢
POST HYDRANT	⊙ P		⊙ P
BACKFLOW PREVENTOR	[B.F.P.]		[B.F.P.]
SANITARY SEWER MANHOLE	○		●
SANITARY SEWER SINGLE CLEANOUT	◦		◦
SANITARY SEWER DOUBLE CLEANOUT	◦◦		◦◦ ◦◦
STORM DRAIN MANHOLE	⊙		●
SINGLE STORM DRAIN INLET	□		■
GRADING SPOT ELEVATIONS	× G=25.00		25.00 TC 24.50 FL

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DRAWING TITLE: CIVIL GENERAL NOTES AND LEGEND					
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.		
PERMIT SET	City Project No. 7825921	Zone Map L-19-X	Sheet CG001.2 Of		