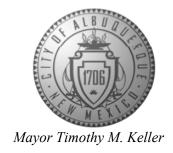
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



March 18, 2022

Megan Palmer, P.E. Barghausen Consulting Engineers, Inc. 18215 72nd Avenue South Kent, WA 98032

RE: Costco 1420 Renaissance Blvd. NE Grading and Drainage Plan Engineers Stamp Date 12/1/2021 (F16D003G)

Ms. Palmer,

Based upon the information provided in your submittal received 3/3/22, this plan cannot be approved until the following corrections are made:

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

1. It is apparent that a lot of work went into preparing these plans, but there is a large amount of work here that is not needed for this submittal and should be left off. There should be no cover sheet, general notes, paving or other construction details other than grading an drainage. There should be no notes on the grading and drainage that deal with other aspects of construction such as accessibility or striping.

2. Per the DPM, the following must be on the Grading Plan. Please ignore any items that are already part of your plan:

- a. Please provide an engineer's stamp with a signature and date.
- b. Please use 1'' = 20' or larger for the scale.
- c. Please provide a Vicinity Map.
- d. Please provide the Benchmark information (location, description and elevation) for the survey contour information provided.
- e. Please provide the FIRM Map and flood plain note with effective date.
- f. Please provide a legal Description of the property.
- 3. There are no calculations shown for runoff and ponding. Please use the procedure for 40 acre and smaller basins as outlined in Development Process Manual (DPM) Article 6-2(a). Please provide both the existing conditions and proposed conditions for the 100 year-6 hour storm event.
- 4. Please calculate and provide management onsite for the Stormwater Quality Volume (SWQV) in accordance with the new drainage ordinance, § 14-5-2-6 (H) enacted 10/2/18

CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

(Council Bill C/S O-18-2). Please show the top and bottom of the ponds along with the volume for each pond. The onsite drainage should be directed to these ponds prior to being collected in a private unground drainage system. Please follow the DPM (signed 06/08/20) Article 6-12 Stormwater Quality and Low-Impact Development for the sizing calculations. To calculate the required SWQV, multiply the impervious area draining to the BMP by 0.42 inches for new development sites and 0.26 inches for redevelopment sites. The calculations of both the required and the provided volume of each BMP must be shown on the Grading and Drainage Plan. Each BMP should be labeled on the Grading and Drainage Plan with the required SWQV and associated water surface elevation and the 100-year water surface elevation. Landscaping of surface BMPs is also required to be noted on the Grading and Drainage Plan. This site qualifies as redevelopment so use the smaller number.

- 5.
- 6. Please provide the SWQV calculations for each basin draining to each pond. The stormwater quality ponds need to be sized for the areas draining to them. Typically these flows are directed to landscaping areas which are graded to hold the SWQV.
- PO Box 1293
- 7. I see on your plan that Grading Area 4 is proposed to use a CDS manhole to capture and treat storm flows. The City does not allow these types of systems to be used as once they are a maintenance problem and do not get serviced regularly. The City uses retention of SWQV in ponds or if need be in underground systems.

Albuquerque

If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

NM 87103

Sincerely,

www.cabq.gov

Ernest Armijo, P.E.

Principal Engineer, Planning Dept.

Development Review Services



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Renaissance Blvd ADA				
DRB#:				
City Address: 1420 Renaissance Blvd. N				
Applicant: Barghausen Consulting Engi Address: 18215 72nd Avenue South, Ke	neers, Inc.		Contact: Megan Palmer	
Phone#: 425-656-1072			E-mail: mpalmer@barghausen.com	
Other Contact:Address:				
Phone#:				
TYPE OF DEVELOPMENT:PLAT (
IS THIS A RESUBMITTAL? Yes DEPARTMENT TRANSPORTATION		ROLOGY/DRAINAGE		
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN X GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT A ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING?	APPLIC	TYPE OF APPROVAL/ACCEPTANCE SOUGHT: BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY PRELIMINARY PLAT APPROVAL SITE PLAN FOR O APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE FOUNDATION PERMIT APPROVAL X GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL CLOMR/LOMR FLOODPLAIN DEVELOPMENT PERMIT OTHER (SPECIFY)		
DATE SUBMITTED:	By:			
COA STAFF:		UBMITTAL RECEIVED:		

FEE PAID:_____

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SCALE: 1"=100'

GENERAL SITE DEVELOPMENT NOTES:

- 1. THE CONTRACTOR SHALL OBTAIN AND HAVE AVAILABLE COPIES OF THE APPLICABLE CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL ASSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION WHETHER SHOWN ON THESE PLANS OR NOT. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THIS SITE. ONLY THOSE UTILITIES WITH EVIDENCE OF THEIR INSTALLATION VISIBLE AT GROUND SURFACE OR SHOWN ON RECORD DRAWING PROVIDED BY OTHERS ARE SHOWN HEREON. EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND ARE SUBJECT TO A DEGREE OF UNKNOWN VARIATION. SOME UNDERGROUND LOCATIONS SHOWN HEREON MAY HAVE BEEN TAKEN FROM PUBLIC RECORDS. BARGHAUSEN CONSULTING ENGINEERS, INC. ASSUMES NO LIABILITY FOR THE ACCURACY OF PUBLIC RECORDS OR RECORDS OF OTHERS. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE APPROPRIATE UTILITIES INVOLVED PRIOR TO CONSTRUCTION.
- 6. INSPECTION OF SITE WORK WILL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE GOVERNING JURISDICTION. INSPECTION OF PRIVATE FACILITIES WILL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE INSPECTOR 24 HOURS IN ADVANCE OF BACKFILLING ALL CONSTRUCTION.
- 7. PRIOR TO ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY THE CONTRACTOR SHALL CONTACT THE AGENCY AND/OR UTILITY INSPECTION PERSONNEL AND ARRANGE ANY REQUIRED PRE-CONSTRUCTION MEETING(S). CONTRACTOR SHALL PROVIDE ONE WEEK MINIMUM ADVANCE NOTIFICATION TO OWNER, FIELD ENGINEER AND ENGINEER OF PRE-CONSTRUCTION MEETINGS.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR WORKER AND SITE SAFETY AND SHAL COMPLY WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED.
- 10. PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ALL ADJACENT PUBLIC AND PRIVATE PROPERTIES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING UTILITY SERVICES THAT ARE TO REMAIN OPERATIONAL WITHIN THE CONSTRUCTION AREA WHETHER SHOWN OR NOT SHOWN ON THE PLANS.
- 11. TWO (2) COPIES OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. ONE (1) SET WITH RECORDS OF AS-BUILT INFORMATION SHALL BE SUBMITTED TO BARGHAUSEN CONSULTING ENGINEERS, INC. AT COMPLETION OF PROJECT.
- 12. CONTRACTOR SHALL OBTAIN SERVICES OF A LICENSED LAND SURVEYOR TO STAKE HORIZONTAL CONTROL FOR ALL NEW IMPROVEMENTS. STAKING CONTROL SHALL BE TAKEN FROM ELECTRONIC PLAN FILES PROVIDED BY BARGHAUSEN CONSULTING
- 13. CONTRACTOR SHALL REQUEST FROM BARGHAUSEN CONSULTING ENGINEERS, INC., PRIOR TO ANY CONSTRUCTION STAKING OR CONSTRUCTION WORK, A FORMAL CONSTRUCTION RELEASE PLAN SET OR SPECIFIC RELEASE IN WRITING. THE APPROVED AGENCY PERMIT DRAWINGS WILL NOT BE CONSIDERED CONSTRUCTION RELEASE PLANS BY BARGHAUSEN CONSULTING ENGINEERS, INC. UNLESS BARGHAUSEN CONSULTING ENGINEERS, INC. HAS GIVEN A FORMAL WRITTEN RELEASE OR ISSUED A CONSTRUCTION RELEASE PLAN SET.

MONUMENT PROTECTION NOTE:

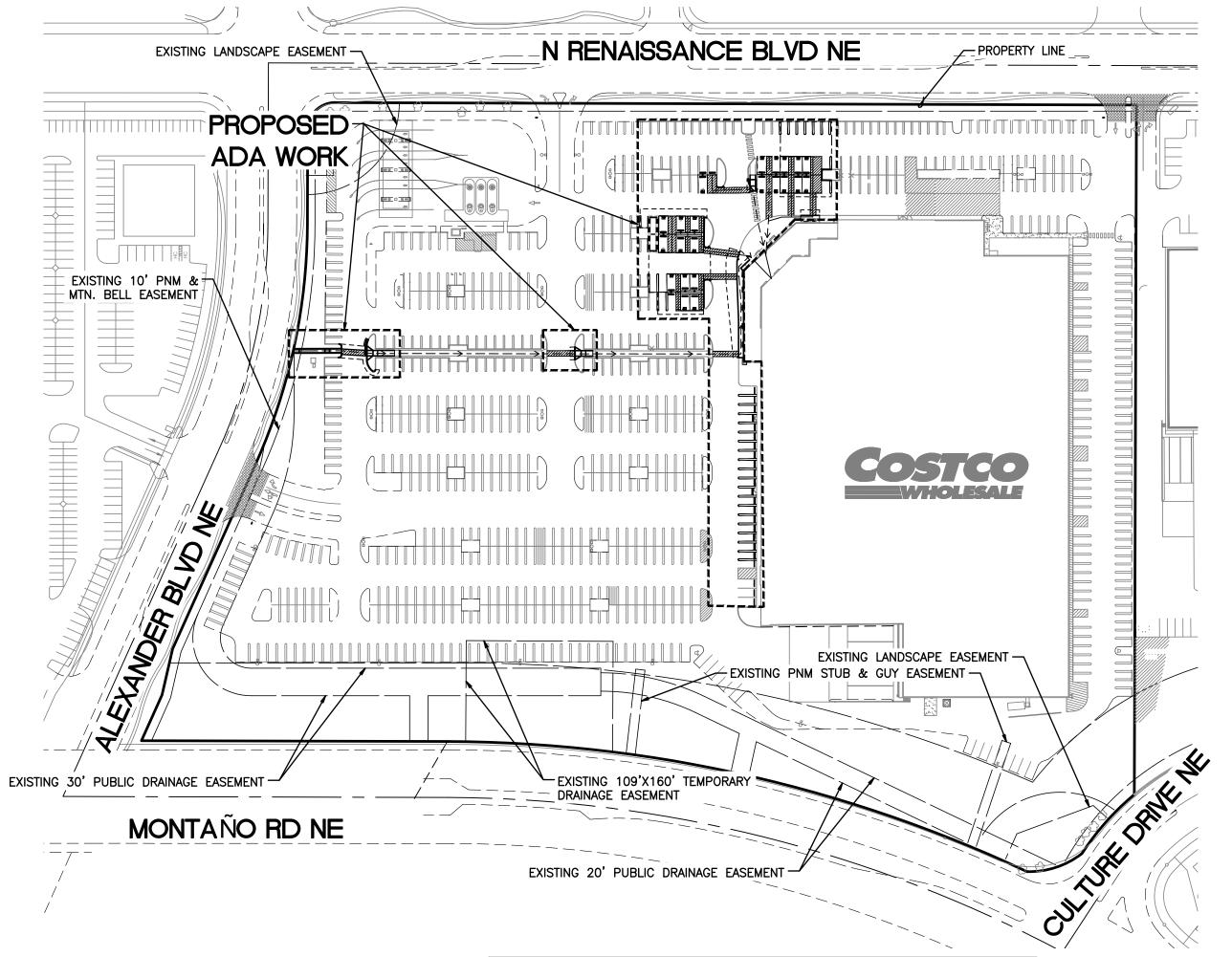
CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OBTAINING PERMITS FROM ANY JURISDICTIONS HAVING AUTHORITY FOR REMOVING AND REPLACING ALL SURVEY MONUMENTATION THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITY. UPON COMPLETION OF CONSTRUCTION, ALL MONUMENTS DISPLACED, REMOVED, OR DESTROYED SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR, AT THE COST AND AT THE DIRECTION OF THE CONTRACTOR, PURSUANT TO THESE REGULATIONS. THE APPROPRIATE FORMS FOR REPLACEMENT OF SAID MONUMENTATION SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR.



COSTCO WHOLESALE

COVER SHEET

ADA SITE IMPROVEMENTS 1420 RENAISSANCE BLVD NE ALBUQUERQUE, NM 87107 COSTCO WAREHOUSE #116



SHEET INDEX

C1.0 - COVER SHEET

C1.1 - STANDARD NOTES

C1.2 - EXISTING CONDITIONS MAP

C1.3 - EXISTING CONDITIONS MAP

C1.4 - EXISTING CONDITIONS MAP C2.0 - TESC AND DEMOLITION PLAN

C3.0 - SITE AND HORIZONTAL CONTROL PLAN

C4.0 - GRADING AND DRAINAGE PLAN

C4.1 - DRAINAGE DETAILS

C5.0 - CONSTRUCTION DETAILS

BASIS OF ELEVATIONS:

1.75" CITY OF ALBERQUERQUE SURVEY CONTROL DISK STAMPED "ACS BM 10-F15". EPOXIED TO THE CENTER OF HE TOP OF A DROP INLET, LOCATED ON THE NORTH SIDE OF MONTANO ROAD 85' EAST OF THE ALAMEDA LATERAL, HAVING AN ELEVATION OF 5002.45, NAVD.

BASIS OF BEARINGS:

NAD 83, NEW MEXICO STATE PLANE CENTRAL ZONE AS MEASURED USING CITY OF ALBUQUERQUE BENCHMARKS 9_15 AND 10_F15.

FEMA FLOODPLAIN:

THE SUBJECT SITE IS LOCATED WITHIN ZONE X (FEMA FIRM NO. 35001C0138H DATED AUGUST 16, 2012).

SITE PLAN NOTE:

A SITE PLAN PREPARED BY MG2 HAS BEEN PROVIDED TO BARGHAUSEN CONSULTING ENGINEERS, INC. BARGHAUSEN CONSULTING ENGINEERS, INC. HAS NOT VERIFIED THAT THE SITE PLAN IS COMPLIANT WITH ALL CITY OR COSTCO STANDARDS.

PROJECT DATA:

PROJECT ADDRESS: 1420 RENAISSANCE BLVD NE ALBUQUERQUE, NM 87107 JURISDICTION: CITY OF ALBUQUERQUE

APN: 10160612192063 **ZONING:** MODERATE INTENSITY MIXED-US (MX-M)

PROJECT AREA SUMMARY: TOTAL WORK AREA = 25.150 SF

15,490 SF

900 SF

TOTAL DISTURBED AREA = 15,490 SF TOTAL NEW/REPLACED IMPERVIOUS AREA = 15,490 SF PROPOSED EXISTING

15,490 SF

945 SF

IMPERVIOUS:

PERVIOUS:

GRADING QUANTITIES:

TOTAL CUT (CY) = 20TOTAL FILL (CY) = 30

TOTAL IMPORT (CY) = 10EARTHWORK QUANTITIES ARE APPROXIMATE AND HIGHLY DEPENDANT ON SOIL CONDITIONS ENCOUNTERED DURING CONSTRUCTION. CONTRACTOR SHOULD PERFORM INDEPENDENT ESTIMATE FOR BIDDING.

POTENTIAL UTILITY CONFLICT. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING AND NEW UTILITIES PRIOR TO CONSTRUCTION. SEE <u>UTILITY CONFLICT NOTE</u>. THE EXISTING WATER, STORM, AND SANITARY SEWER SERVICE SHOWN IS APPROXIMATE, BASED ON FIELD SURVEYS AND "AS-BUILT" RECORDS. THE GENERAL CONTRACTOR SHALL "POTHOLE" THE EXISTING UTILITIES TO VERIFY THE DIAMETER AND LOCATION (INCL. ELEVATIONS) PRIOR TO CONSTRUCTION, ANY DISCREPANCIES IN THE LOCATION OF THE EXISTING PIPE OR INCOMPATIBILITY OF THE DESIGN SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNERS REPRESENTATIVE, AND BARGHAUSEN CONSULTING ENGINEERS, INC. (425-251-6222).

HEAVY-DUTY ASPHALT

PROPOSED CONCRETE

PROPOSED FULL-DEPTH LIGHT-DUTY ASPHALT

PROPOSED FULL-DEPTH

ACCESSIBLE PATH OF TRAVEL

PROPOSED SPOT GRADE

PROPOSED GRADE LABEL

MATCH EXISTING GRADE

TOP OF PAVEMENT

----- PROPOSED MINOR CONTOUR

PROPOSED TOP OF CURB/

EXISTING MINOR CONTOUR

EXISTING MAJOR CONTOUR

EXISTING STORM DRAIN EXISTING WATER LINE EXISTING STORM DRAIN <u>0.50%</u>

LEGEND

EXISTING CATCH BASIN EXISTING LOT LIGHT EXISTING STORM CLEANOUT EXISTING SIGN

EXISTING FIRE HYDRANT

EXISTING CONCRETE

EXISTING CURB AND GUTTER

EXISTING EDGE OF PAVEMENT

EXISTING CANOPY DRIPLINE

EXISTING TELECOM LIN **EXISTING POWER**

EXISTING TRANSFORMER

PROJECT TEAM:

OWNER COSTCO WHOLESALE

PHONE: (425) 251-6222

FAX: (425) 251-8782

CONTACT: HAL GRUBB, PE

999 LAKE DRIVE ISSAQUAH, WA 98027 BARGHAUSEN CONSULTING ENGINEERS, INC. 18215 72ND AVE. S. KENT, WA 98032

PHONE: (623) 869-0223 FAX: (623) 869-0726 CONTACT: RANDY DELBRIDGE **ARCHITECT** 1101 SECOND AVENUE, SUITE 100 SEATTLE, WA 98101

> PHONE: (206) 962-6500 FAX: (206) 962-6499 CONTACT: ALISON MCCLELLAN

SUPERIOR SURVEYING SERVICES, INC.

2122 W. LONE CACTUS DRIVE, SUITE 11

SURVEYOR

PHOENIX, AZ 85027

GRADING AND DRAINAGE NARRATIVE:

THE SITE IS CURRENTLY DEVELOPED WITH AN EXISTING COSTCO WAREHOUSE, FUEL FACILITY, PARKING, STORMWATER FACILITIES, AND LANDSCAPING. STORMWATER RUNOFF IS DETAINED ON-SITE IN PARKING LOT PONDS AND THEN CONVEYED THROUGH A CLOSED CONVEYANCE SYSTEM TO THE STORM SYSTEM IN ALEXANDER BOULEVARD NE. THE EXISTING STORM SYSTEM WAS DESIGNED IN THE ORIGINAL WAREHOUSE DRAINAGE REPORT AND PLAN DATED JULY 18 1996 AND APPROVED AUGUST 5, 1996 (F16-D5G). THE ORIGINAL RENAISSANCE MASTER PLAN ALLOWS FOR 0.1 CFS/ACRE TO LEAVE THE SITE. THE SITE IS 14.8 ACRES MAKING AN ALLOWED DISCHARGE OF 1.48 CFS. THE SITE IS CURRENTLY DESIGNED TO DISCHARGE 1.37 CFS. EXISTING GRADES WITHIN THE PAVED AREAS ARE RELATIVELY FLAT WITH SLOPES RANGING

FROM 0.5 TO 5 PERCENT. THE PROPOSED IMPROVEMENTS TO THE COSTCO PARKING LOT ARE LARGELY IN BASIN/POND 9 OF THE EXISTING SITE'S CONVEYANCE SYSTEM WHICH HAS UP TO 21,700 SF OF SHEET FLOW TO AN EXISTING

INLET WITH FLOW CONTROL ELEMENTS.

THE IMPROVEMENTS INCLUDE RELOCATING AND REPAVING ADA STALLS AND REPAVING RAMPS, AND SIDEWALKS WITHIN THE DESIGNATED PATH OF ACCESSIBILITY TO UPGRADE THE PARKING LOT TO LATEST ADA STANDARDS. THE PROPOSED IMPROVEMENTS WILL RESULT IN A NEGLIGIBLE NET INCREASE OF IMPERVIOUS AREA AND IS THEREFORE NOT ANTICIPATED TO INCREASE DISCHARGE FLOWS OR NEGATIVELY IMPACT THE EXISTING STORM SYSTEM.

A CONTECH CDS TREATMENT MANHOLE INLET IS PROPOSED TO TREAT BASIN 9 SHEET FLOW AREA PRIOR TO ENTERING THE FLOW CONTROL CATCH BASIN. THE FACILITY DETAILS AND CALCULATIONS ARE ON SHEET C4.1. AND IS DESIGNED TO TREAT AN EQUIVALENT AREA AND MORE THAN THE REPAVED AREA.

THE SUBJECT SITE IS NOT LOCATED WITHIN A FLOOD ZONE PER FEMA FIRM NO. 35001C0138H DATED AUGUST 16, 2012.

GEOTECHNICAL REPORT NOTES:

1. THE FOLLOWING GEOTECHNICAL REPORTS FOR THE SITE SHALL BE CONSIDERED PART OF THESE CONSTRUCTION DOCUMENTS:

SOILS REPORT: GEOTECHNICAL ENGINEERING REPORT JOB NUMBER: 20164575.001A DATE: MARCH 23, 2016

PREPARED BY: KLIENFELDER 1335 WEST AUTO DRIVE TEMPE, AZ 85284 PHONE: (480) 763-1212

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PROVISIONS OF THE SOILS REPORT FOR THE SITE BE OBSERVED AND COMPLIED WITH DURING ALL PHASES OF THE SITE PREPARATION, GRADING OPERATIONS, AND PAVING CONSTRUCTION.

ANY PROVISIONS OF THE SOILS REPORT WHICH CONFLICT WITH INFORMATION SHOWN ELSEWHERE ON THESE DRAWINGS. OR WHICH REQUIRE FURTHER CLARIFICATION. SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR DETERMINATION.

4. A REPRESENTATIVE OF THE SOILS ENGINEER SHALL BE AVAILABLE TO OBSERVE AND APPROVE THE EARTHWORK OPERATIONS AND TO VERIFY FIELD CONDITIONS AS WORK PROCEEDS. THE SOILS ENGINEER SHALL SUBMIT FIELD REPORTS CERTIFYING THAT THE METHODS AND MATERIALS OF THE EARTHWORK OPERATIONS WERE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS INVESTIGATION AND THAT THE WORK WAS PERFORMED TO HIS/HER SATISFACTION.

5. THE SOILS ENGINEER SHOULD BE NOTIFIED AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY SITE CLEARING OR GRADING.

EXISTING TOPOGRAPHY/SURVEY INFORMATION NOTE:

A TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED BY SUPERIOR SURVEY SERVICES, INC. DATED JULY 2 O, HAS BEEN PROVIDED AS THE EXISTING CONDITIONS MAP TO BARGHAUSEN CONSULTING ENGINEERS, INC. BARGHAUSEN CONSULTING ENGINEERS, INC. HAS NOT VERIFIED THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED. THE SITE DESIGN HAS BEEN BASED ON THE ABOVE-NOTED SURVEYS.

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 811 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF BARGHAUSEN CONSULTING ENGINEERS, INC.

ghauser



C10

STANDARD NOTES

ADA SITE IMPROVEMENTS 9955 COORS BLVD BYPASS NW ALBUQUERQUE, NM 87114 COSTCO WAREHOUSE #116

CITY OF ALBUQUERQUE GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH UPDATE #9, REFERRED TO HEREIN AS "STANDARD
- 2. ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY OR PUBLIC EASEMENTS MUST BE DONE FROM APPROVED WORK ORDER DOCUMENTS ISSUED BY THE CITY.
- 3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND
- 4. CONTRACTOR SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROTECTION OF PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR
- 5. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650, SUBPART "P".
- 6. AN EXCAVATION / CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY
- RIGHT-OF-WAY. 7. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION ENGINEER (OR CITY PROJECT MANAGER) NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. ONLY THE CITY SURVEYOR SHALL REPLACE SURVEY MONUMENTS. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS/HER OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO STANDARD SPECIFICATION SECTION 4.4.
- 8. FOR CIP PROJECTS: SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO DMD, CONSTRUCTION COORDINATION DIVISION, A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE DMD, CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF STANDARD SPECIFICATIONS. PERMIT REQUESTS MAY BE DENIED OR DELAYED DUE TO CONFLICTS WITH OTHER PROJECTS IN THE AREA.
- 9. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE-CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- 10. CONTRACTOR SHALL ASSIST THE ENGINEER / INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND APPURTENANCES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS-BUILT" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES OR APPURTENANCES UNTIL ALL DATA HAVE BEEN RECORDED.
- 11. CONTRACTOR SHALL ASSUME FINANCIAL RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENT, PAVEMENT MARKINGS, SIGNAGE, CURB & GUTTER, A.D.A. RAMPS, AND SIDEWALK DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR OR REPLACE, PER THE STANDARD SPECIFICATIONS, ANY SUCH DAMAGE.
- 12. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNAGE UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY AND OTHER JURISDICTIONAL AUTHORITIES WHERE APPLICABLE.

WATER AND SEWER:

- 14. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING. EXISTING VALVES AND MANHOLES SHALL NOT BE BURIED OR PAVED OVER; RIMS SHALL BE ADJUSTED TO MATCH NEW GRADE PER C.O.A. STANDARD DRAWINGS 2460 AND 2461.
- 15. MANHOLE RIMS, FIRE HYDRANT ELEVATIONS, AND FLANGE ELEVATIONS SHOWN ARE APPROX-IMATE. CONTRACTOR SHALL FIELD-VERIFY AND ADJUST TO FINAL PAVEMENT OR SURFACE GRADES.
- 16. THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF FACILITIES DESIGNATED AS MASTER-PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY FOURTEEN (14) DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ON LINE AT: HTTP://ABCWUA.ORG/WATER_SHUT_OFF_AND_TURN_ON_PROCEDURES.ASPX
- 22. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL PERTINENT EXISTING UTILITIES AND / OR OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. CONTRACTOR SHALL COORDINATE RELOCATION OF UTILITY LINES WITH AFFECTED UTILITY COMPANIES AS REQUIRED.
- 26. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECT-ORIZED PAVEMENT MARKING BY CONTRACTOR AT THE SAME LOCATION AS EXISTING OR AS INDICATED ON THIS
- 28. REMOVAL OF EXISTING CURB & GUTTER AND SIDEWALKS SHALL BE TO THE NEAREST JOINT.
- 29. ANY DAMAGE TO THE EXISTING CURB & GUTTER, PAVEMENT, SIDEWALKS, STRIPING, OR SIGNAGE DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 30. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC

TRANSPORTATION:

- 31. CURB & GUTTER, SIDEWALKS, AND DRIVEPADS SHALL MATCH THE LINE AND GRADE OF ABUTTING EXISTING AREAS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE PROJECT ENGINEER.
- 33. CONTRACTOR SHALL TEST SUBGRADE R-VALUE PRIOR TO CONSTRUCTION. IN THE EVENT THE R-VALUE IS LESS THAN 50, REMOVE TWO FEET OF SUBGRADE MATERIAL AND IMPORT MATERIAL WITH R-VALUE GREATER THAN 50, OR CONTACT THE ENGINEER IMMEDIATELY SO THE PAVEMENT SECTION CAN BE
- TAKEN TO AVOID DAMAGING THE INTEGRITY OR APPEARANCE OF SURROUNDING PAVEMENT; IF DAMAGED,
- 35. CONTRACTOR WILL ENSURE THE ASPHALT HAS A SMOOTH, UNIFORM EDGE WHEN REMOVING AND REPLACING CURB & GUTTER. IF THE ASPHALT EDGE IS NOT SMOOTH AND UNIFORM, CONTRACTOR SHALL SAW-CUT AND REPLACE A ONE-FOOT STRIP OF ASPHALT ALONG THE FULL SECTION BEING REPLACED: REFER TO C.O.A. STANDARD DRAWING No. 2465 WITH THE APPROPRIATE PAVING SECTION BASED ON
- IMPACT THE PROJECT WILL HAVE ON THE TRANSIT SYSTEM, SUCH AS CAUSING A DETOUR OR THE CLOSURE OR RELOCATION OF A BUS STOP. THE CONTACT PERSON IS DOUGLAS GOFF, OFFICE PHONE 724-3137, CELL PHONE 206-0151, OR E-MAIL: DGOFF@CABQ.GOV

OTHER COMMON NOTES:

- 37. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATION. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF THE PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER
- 39. CONTRACTOR SHALL DETERMINE IN ADVANCE OF CONSTRUCTION IF OVERHEAD UTILITY LINES, SUPPORT
- 40. PNM WILL PROVIDE, AT NO COST TO THE CITY OR THE CONTRACTOR, THE NECESSARY PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECSSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
- 41. EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY; LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE
- 42. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. CONTRACTOR SHALL FIELD-VERIFY THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS/HER FAILURE TO
- AND/OR SEWER LINE COSTS.
- 44. CONTRACTOR SHALL SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES, COMMUNICATION CABLES, AND CABLE-TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. CABLE SHALL BE SUPPORTED AT A MAXIMUM SPACING OF FIFTEEN (15) FEET. CONTRACTOR SHALL COORDINATE WITH AND MAKE ANY NECESSARY PAYMENT TO UTILITY OWNER FOR DE-ENERGIZATION
- MINIMUM OF 95% MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATIONS SECTION 701.14.2 AND STANDARD DRAWING No. 2465.
- OR PRIVATE ROADWAY EASEMENTS TO PREVENT ANY EXCAVATED MATERIAL BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY. 47. REMOVALS SHALL BE DISPOSED OF OFF-SITE AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- MANNER AT A LOCATION ACCEPTABLE TO THE PROJECT MANAGER. THERE WILL BE NO DIRECT
- COMPENSATION FOR THIS WORK.
- 50. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC. WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED, AND RE-SET BY THE CONTRACTOR.
- 51. IF CULTURAL RESOURCES, SUCH AS HISTORIC OR PRE-HISTORIC ARTIFACTS, OR HUMAN REMAINS ARE
- 52. IF OBJECTS OF HISTORICAL, ARCHEOLOGICAL, PALEONTOLOGICAL, OR OTHER OBJECTS OF ANTIQUITY ARE ENCOUNTERED, CONTRACTOR SHALL CEASE OPERATIONS AND IMMEDIATELY NOTIFY OWNER AND PROJECT

32. THE SUBGRADE PREPARATION SHALL EXTEND ONE (1) FOOT BEYOND THE FREE EDGE OF NEW CURB &

34. AT ALL PAVEMENT REMOVAL AND REPLACEMENTS, SAW-CUT EDGES SHALL BE STRAIGHT AND CLEAN, AND

LONGITUDINAL JOINTS SHALL NOT BE PLACED WITHIN WHEEL PATHS. PATCHES SHALL BE REGULAR AND SQUARE OR RECTANGULAR, WITH FOUR STRAIGHT SIDES. FINISHED PAVEMENT SURFACE SHALL BE FLUSH WITH EXISTING PAVEMENT SURFACE, WITH NO SPILLOVER OF ASPHALT OR TACK COAT. CARE MUST BE THE ENTIRE SURFACE PATCH MUST BE EXPANDED TO COVER DAMAGES.

ROADWAY CLASSIFICATION.

36. TWO WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE TRANSIT DEPARTMENT OF ANY

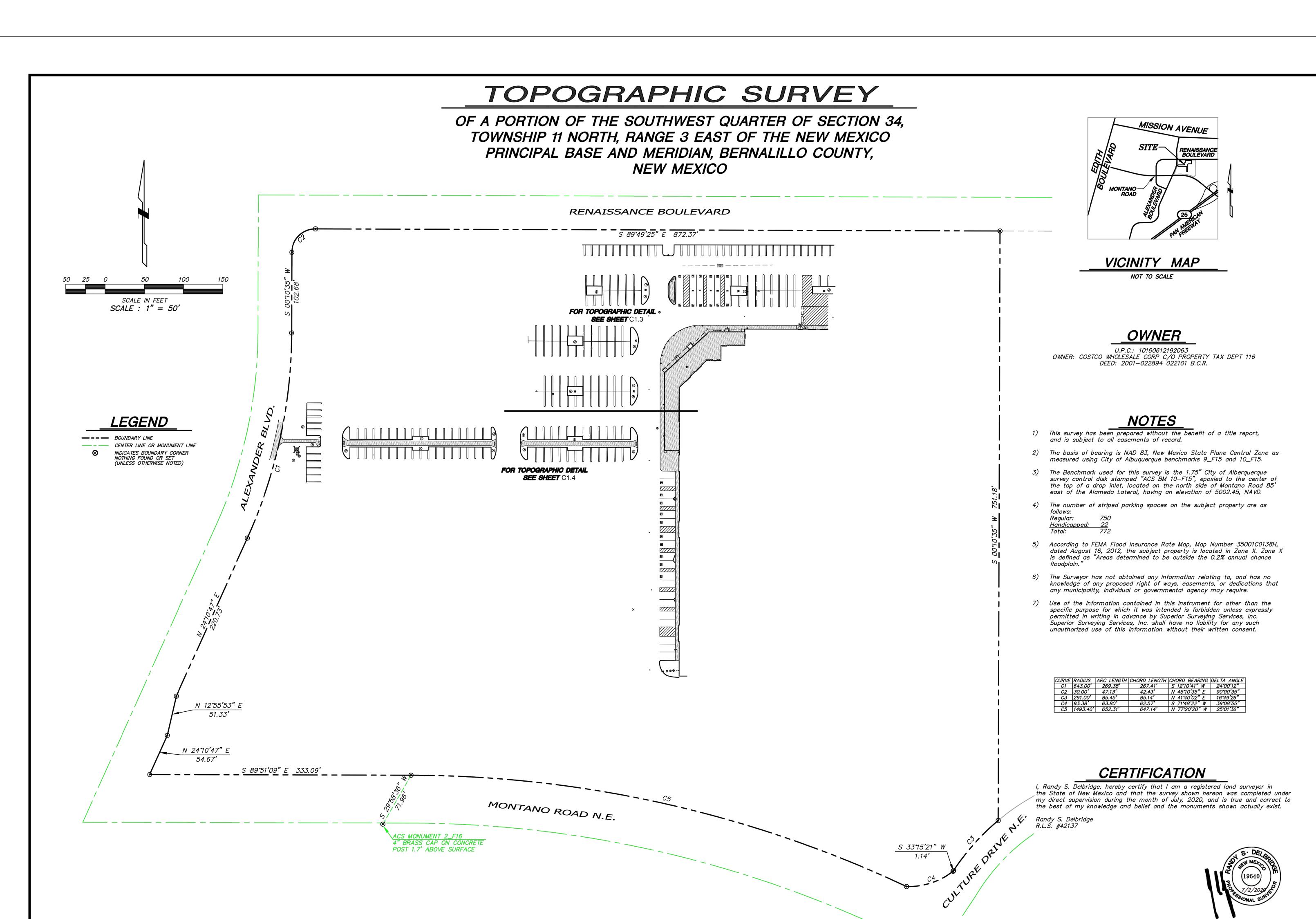
38. CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING WORK.

- STRUCTURES, GUYS, ETC., ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTIONS TO CONSTRUCTION OPERATIONS ARE PRESENT, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION BEGINS.
- LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. 43. CONTRACTOR SHALL SUPPORT ALL EXISTING UNDERGROUND UTILITIES WHICH BECOME EXPOSED DURING CONSTRUCTION. PAYMENT FOR SUPPORTING WORK SHALL BE INCIDENTAL TO STORM SEWER, WATER LINE,
- OF CABLES, OR SUPPORT OF CABLES BY THE UTILITY OWNER. 45. ALL FINAL BACKFILL FOR TRENCHES WITHIN THE COA RIGHT-OF-WAY SHALL BE COMPACTED TO A
- 46. CONTRACTOR SHALL PROMPTLY CLEAN UP ANY EXCAVATED MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY
- 48. CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL IN AN ENVIRONMENTALLY ACCEPT-ABLE
- 49. CONTRACTOR SHALL CONDUCT ALL WORK IN A MANNER WHICH WILL MINIMIZE INTEFERENCE WITH LOCAL
- DISCOVERED DURING EXCAVATION OR CONSTRUCTION, WORK SHALL CEASE AND THE CONSTRUCTION ENGINEER SHALL NOTIFY THE COUNTY OFFICE OF THE MEDICAL EXAMINER AT 272-3053. IF THE MEDICAL EXAMINER DETERMINES THAT HUMAN REMAINS ARE NOT PRESENT, THE CONSTRUCTION ENGINEER SHALL NOTIFY THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AT 827-6320.

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 811 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.



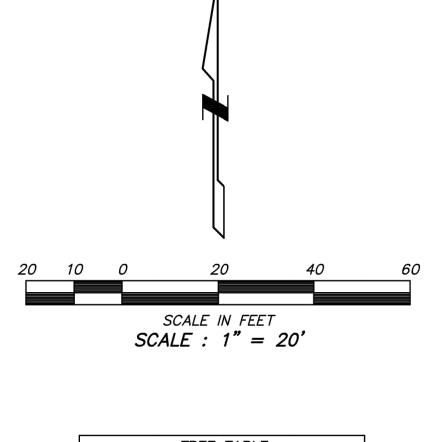


420

DWN: MD CHK: DK C1.2 of S DATE: 7/2/2020 *JOB:* **202006034**

EXPIRES 12/31/20

JOB: 202006034



	TREE TABLE	
TREE NO.	TREE TYPE	SIZE
1	TREE	0.3'ø
2	TREE	0.4'ø
3	TREE	0.5'ø
4	TREE	0.6'ø
5	TREE	0.7'ø
6	TREE	0.8'ø
7	TREE	1.0'ø

LEGEND

BOUNDARY LINE

CENTER LINE OR MONUMENT LINE

INDICATES BOUNDARY CORNER

NOTHING FOUND OR SET

(UNLESS OTHERWISE NOTED)

(UNLESS OTHERWISE NOTED)

CONCRETE SURFACE

24 INCH VERTICAL CURB & GUTTER

6 INCH CONCRETE CURB

FIRE HYDRANT

WALL

X FENCE

ELECTRIC CABINET

ELECTRIC METER

ELECTRIC TRANSFORMER

● GUARD POST OR GATE POST

LA HANDICAPPED SPACE

METAL GRATE (CIRCULAR)

METAL GRATE (RECTANGULAR)

☐ LIGHT POLE
☐ LANDSCAPE LIGHT
☐ PEDESTRIAN ACCESS RAMP

© STORM DRAIN MA

S SEWER MANHOLE

□ STREET SIGN

WATER VALVE

FL FLOW LINE
FF FINISHED FLOOR
TC TOP OF CURB

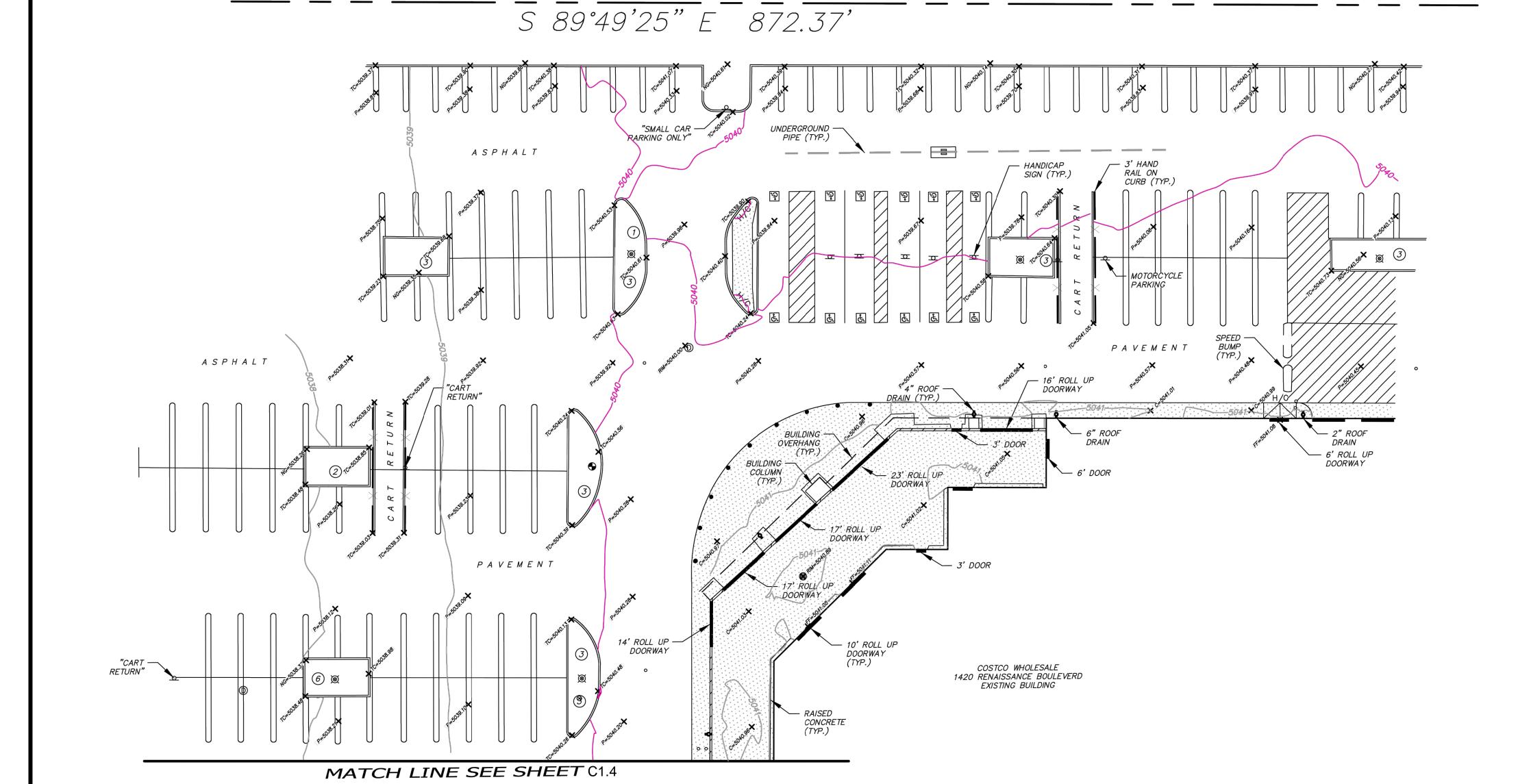
NG NATURAL GROUND
P PAVEMENT
C CONCRETE

C CONCRETE

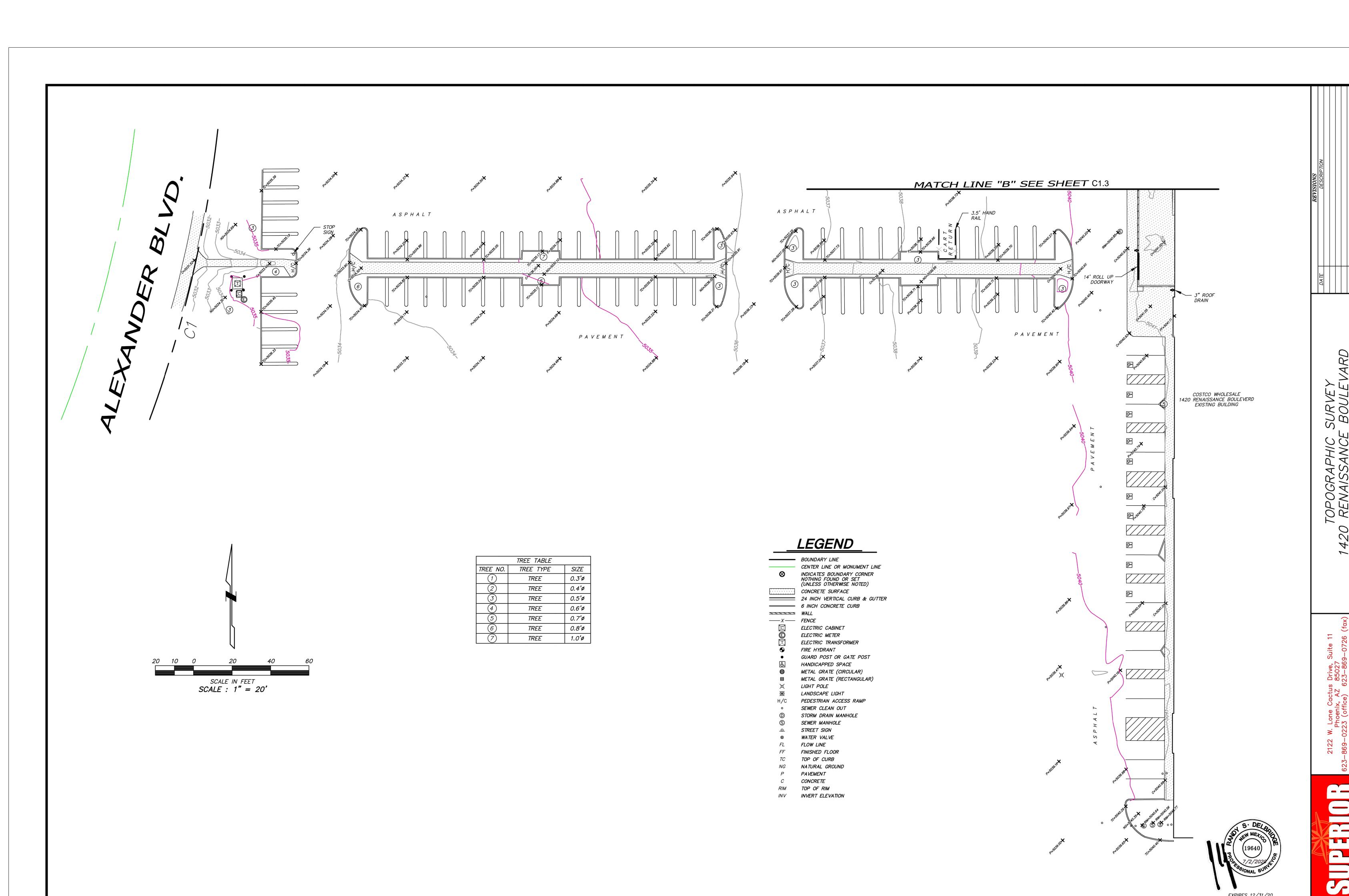
RIM TOP OF RIM

INV INVERT ELEVATION



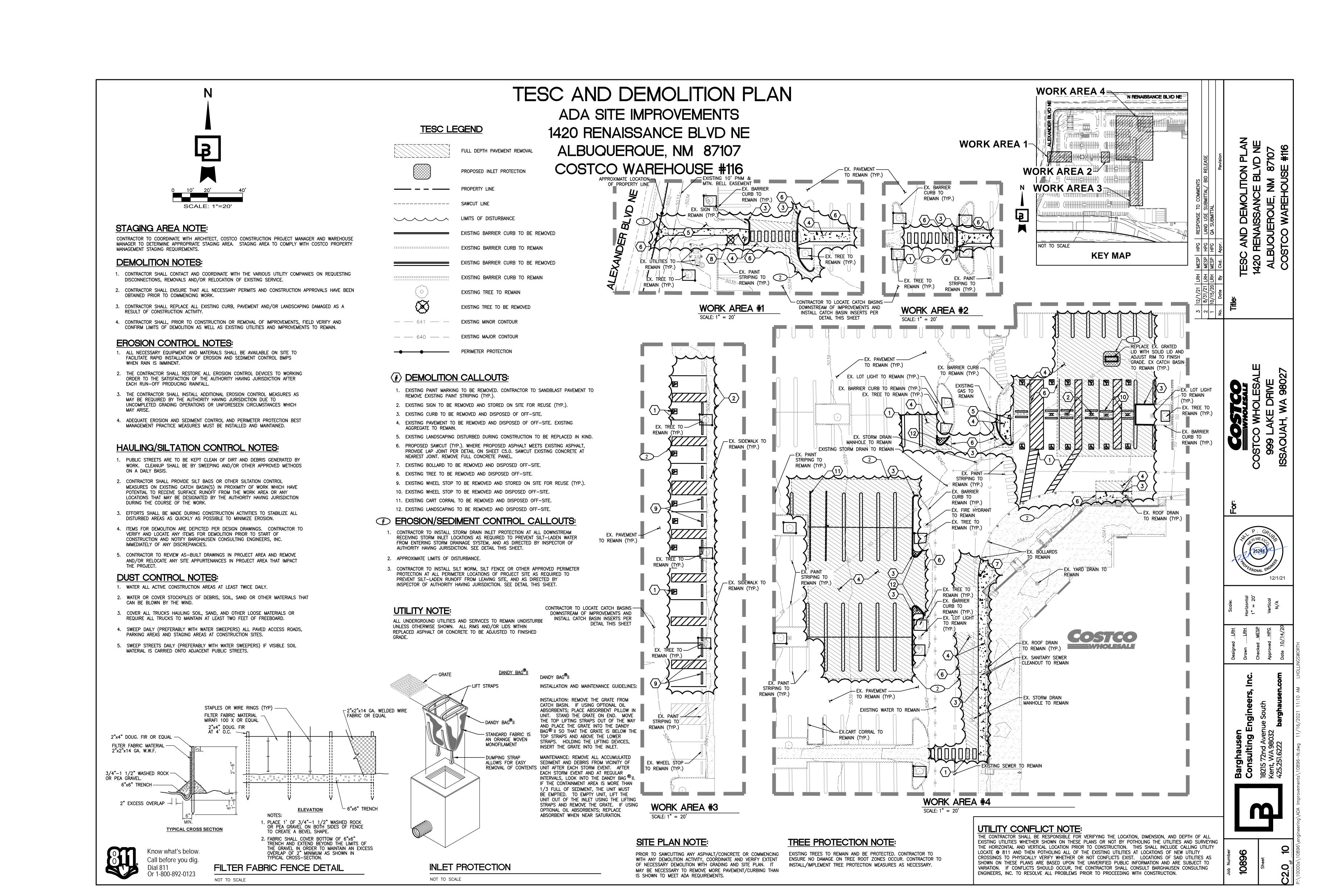


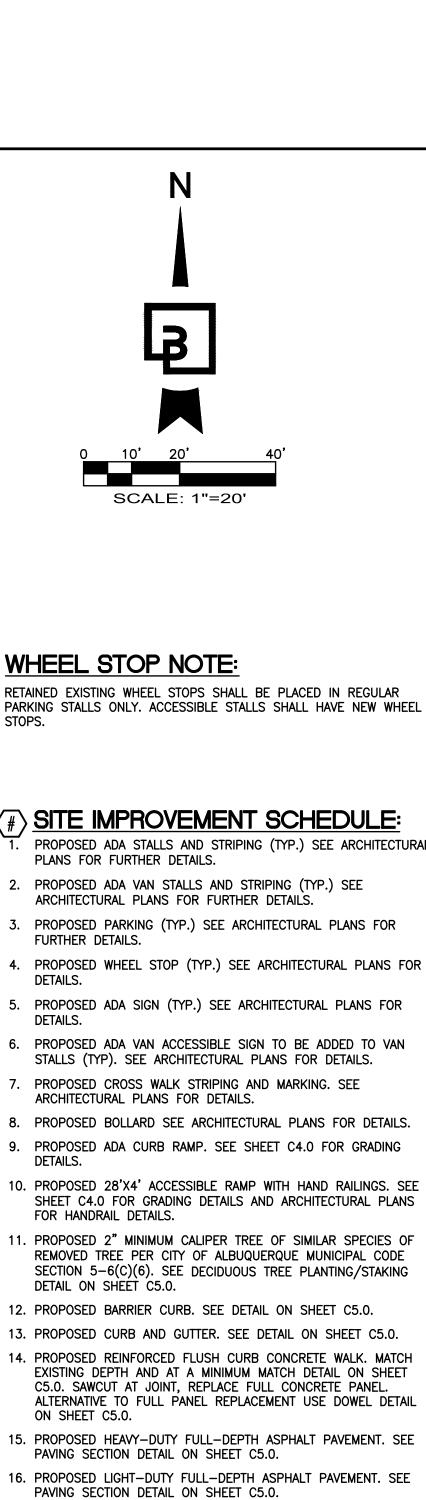
RENAISSANCE BOULEVARD



TOPOGRAPHIC SURVEY
RENAISSANCE BOULEVARD
ALBEQUERQUE, NM 87107 1420

DWN: MD CHK: DK
C1.4 OF 9 JOB: 202006034





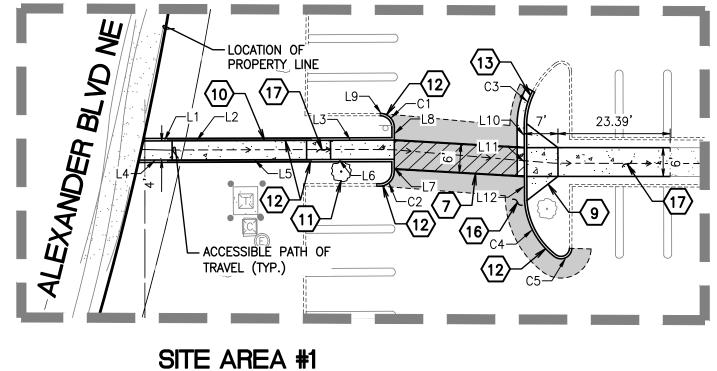
SITE AND HORIZONTAL CONTROL PLAN ADA SITE IMPROVEMENTS 1420 RENAISSANCE BLVD NE ALBUQUERQUE, NM 87107

COSTCO WAREHOUSE #116

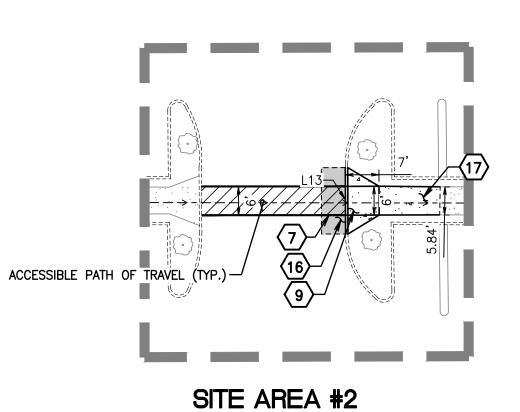
(#) SITE IMPROVEMENT SCHEDULE:

- PROPOSED ADA STALLS AND STRIPING (TYP.) SEE ARCHITECTURAL
- ARCHITECTURAL PLANS FOR FURTHER DETAILS.
- 3. PROPOSED PARKING (TYP.) SEE ARCHITECTURAL PLANS FOR FURTHER DETAILS.

- STALLS (TYP). SEE ARCHITECTURAL PLANS FOR DETAILS.
- ARCHITECTURAL PLANS FOR DETAILS.
- 9. PROPOSED ADA CURB RAMP. SEE SHEET C4.0 FOR GRADING DETAILS.
- FOR HANDRAIL DETAILS. 11. PROPOSED 2" MINIMUM CALIPER TREE OF SIMILAR SPECIES OF REMOVED TREE PER CITY OF ALBUQUERQUE MUNICIPAL CODE
- SECTION 5-6(C)(6). SEE DECIDUOUS TREE PLANTING/STAKING DETAIL ON SHEET C5.0.
- 13. PROPOSED CURB AND GUTTER. SEE DETAIL ON SHEET C5.0. 14. PROPOSED REINFORCED FLUSH CURB CONCRETE WALK. MATCH EXISTING DEPTH AND AT A MINIMUM MATCH DETAIL ON SHEET C5.0. SAWCUT AT JOINT, REPLACE FULL CONCRETE PANEL.
- 15. PROPOSED HEAVY-DUTY FULL-DEPTH ASPHALT PAVEMENT. SEE
- 16. PROPOSED LIGHT-DUTY FULL-DEPTH ASPHALT PAVEMENT. SEE
- 17. PROPOSED CONCRETE SIDEWALK. MATCH EXISTING DEPTH AND AT A MINIMUM MATCH DETAIL SHEET ON C5.0. REPLACE FULL CONCRETE PANEL. SAWCUT AT JOINT, REPLACE FULL CONCRETE PANEL. ALTERNATIVE TO FULL PANEL REPLACEMENT USE DOWEL DETAIL ON SHEET C5.0.
- 18. REPLACE EXISTING CART CORRAL. SEE ARCHITECTURAL PLANS FOR



SCALE: 1" = 20'



SCALE: 1" = 20'

[LINE	TABLE	l	INE	TABLE
Line #	Length	Direction	Line #	Length	Direction
L1	6.06	S89° 48′ 47.17"W	L23	5.61	N0° 12' 10.14"W
L2	28.00	S89° 48' 59.22"W	L24	10.76	S89° 37′ 40.43″E
L3	18.29	S89° 48' 28.72"W	L25	12.13	N0° 20' 43.53"E
L4	7.00	N89° 49' 38.37"E	L26	10.87	N89° 03′ 31.34″W

L5 | 28.00 | N89° 49' 53.47"E

L6 | 18.26 | N89° 49' 13.77"E

L7 2.59 S0° 09' 09.41"W

L8 | 2.56 | S0° 09' 09.41"W

L9 0.32 S86° 53' 22.01"E

L10 | 5.00 | N0° 04' 14.51"W

L11 | 6.00 | N0° 06' 32.97"W

L12 | 4.00 | N0° 06' 32.97"W

L13 | 10.00 | N0° 13′ 46.69″W

L14 | 28.45 | N0° 28' 53.00"E

L15 | 27.23 | N0° 02' 23.11"W

L16 | 11.50 | S16° 10' 48.65"W L17 | 21.50 | S0° 05' 23.99"W

L18 | 42.21 | S2° 18′ 14.68″E

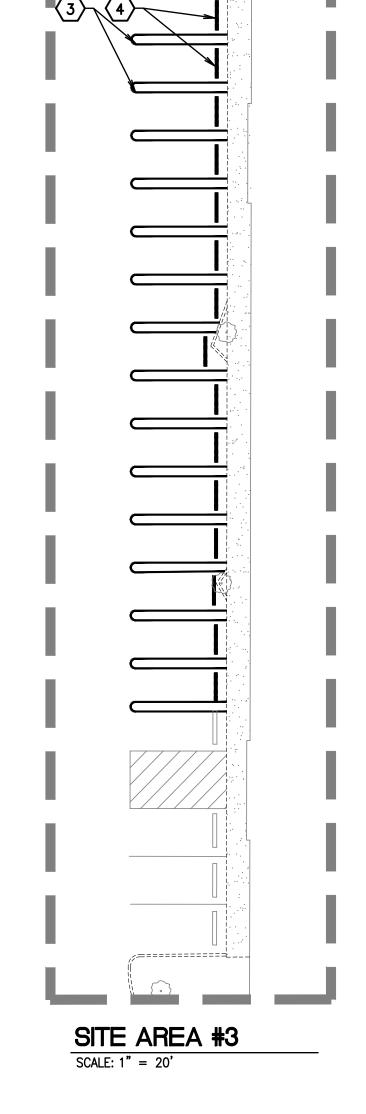
L19 41.05 S0° 06' 50.29"E

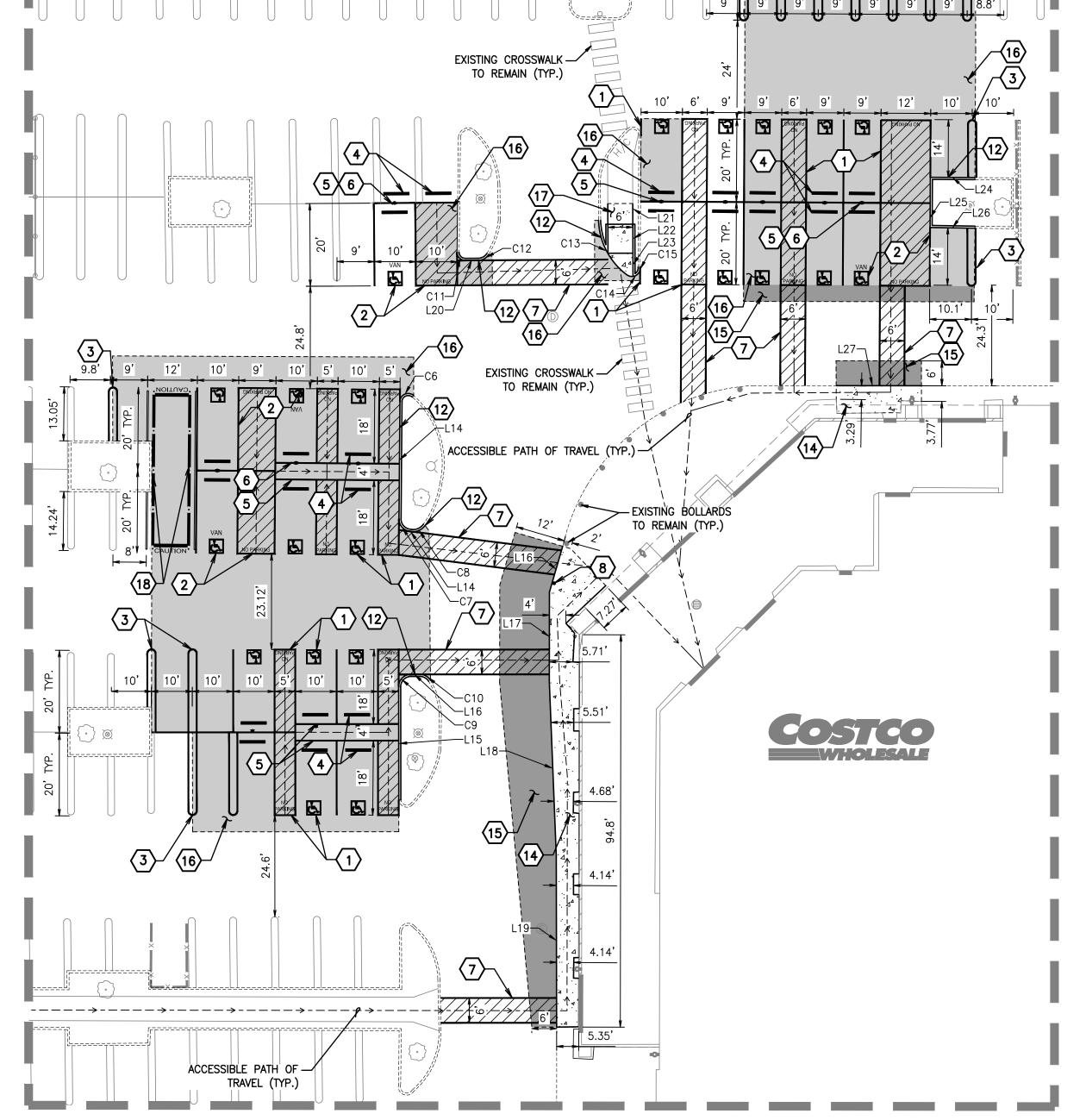
L20 3.12 N89° 34' 39.84"E

L21 | 5.00 | N0° 11' 56.30"W

L22 7.00 N0° 12' 01.77"W

CURVE TABLE				
Curve #	Length	Radius	Delta	
C1	4.36	3.00	83.38	
C2	4.71	3.00	89.93	
C3	7.07	15.50	26.15	
C4	14.68	16.00	52.58	
C5	4.97	2.25	126.55	
C6	4.41	2.00	126.08	
C7	4.36	3.02	82.76	
C8	3.81	3.50	62.36	
C9	4.71	3.00	90.04	
C10	3.07	3.00	58.72	
C11	3.14	2.00	90.00	
C12	3.02	3.00	57.69	
C13	15.34	17.00	51.69	
C14	4.42	2.00	126.67	
C15	4.42	2.00	126.67	





SITE AREA 1-

SITE AREA 2

NOT TO SCALE

KEY MAP

ACCESSIBLE PATH OF TRAVEL NOTE: WALKWAYS ALONG ACCESSIBLE ROUTES OF TRAVEL SHALL BE CONTINUOUSLY ACCESSIBLE, BE A MINIMUM OF 48" IN WIDTH, HAVE A

MAXIMUM 2.0% CROSS SLOPE, AND SHALL HAVE RAMPS COMPLYING WITH

FEDERAL ACCESSIBILITY STANDARDS (SECTION 405) WHERE NECESSARY

TO CHANGE ELEVATION AT A LONGITUDINAL SLOPE EXCEEDING 5% (1:20).

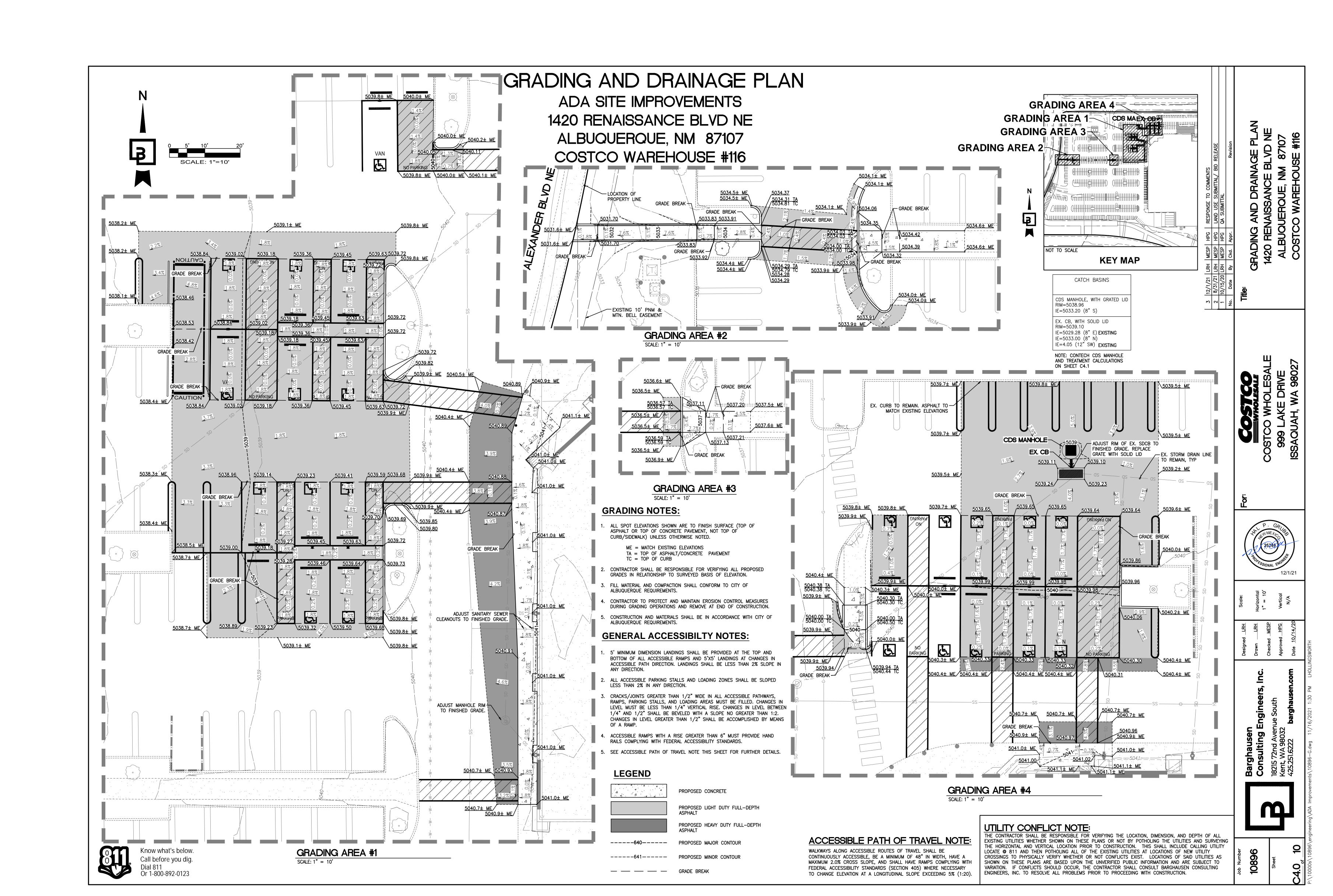
SITE AREA #4

SCALE: 1" = 20'

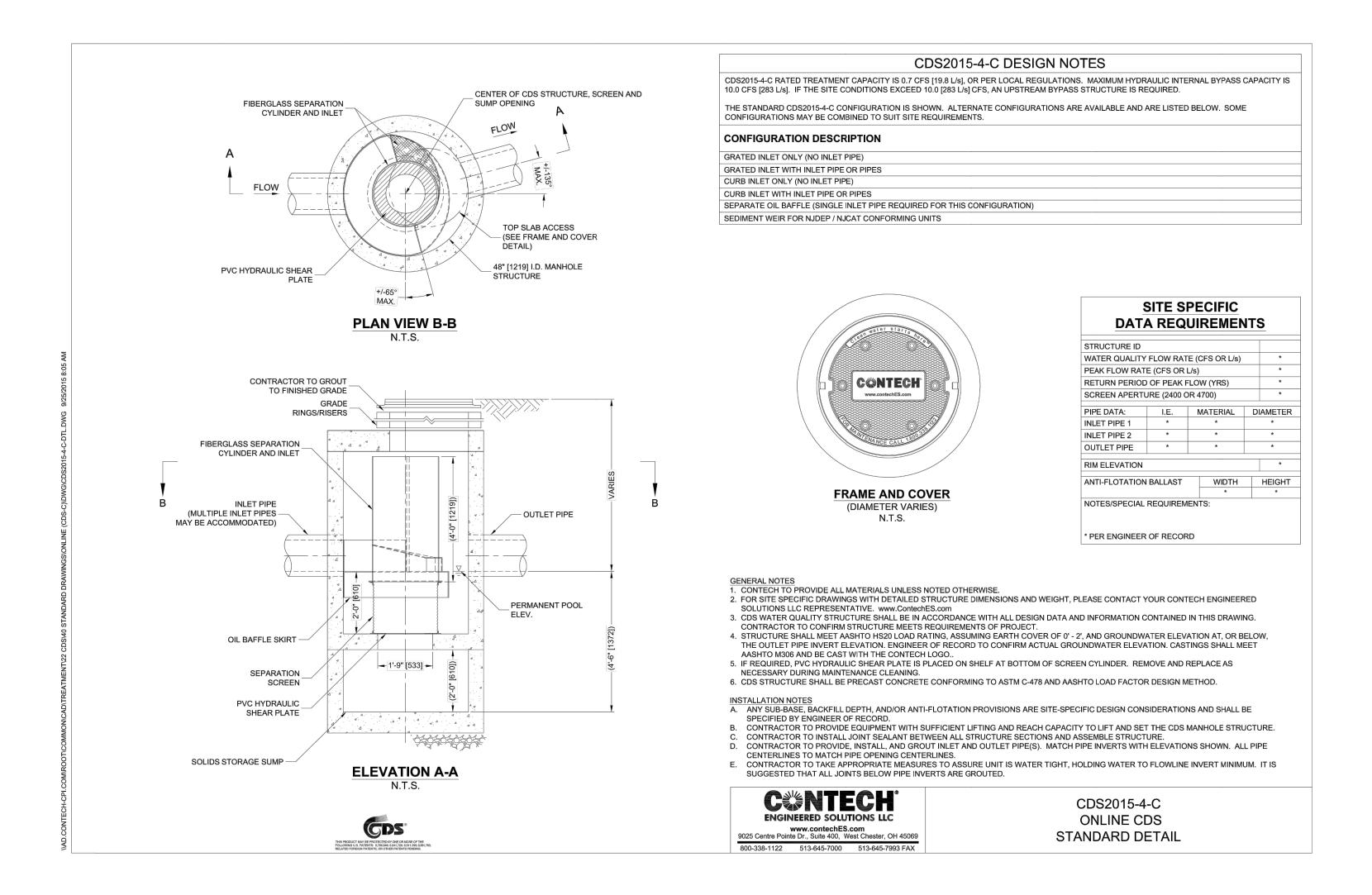
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ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

Know what's below. Call before you dig. Dial 811 Or 1-800-892-0123



DRAINAGE DETAILS ADA SITE IMPROVEMENTS 1420 RENAISSANCE BLVD NE ALBUQUERQUE, NM 87107 COSTCO WAREHOUSE #116



COS ESTIMATED NET ANNUAL SOLIDS LOAD REDUCTION BASED ON THE RATIONAL RAINFALL METHOD BASED ON AN AVERAGE PARTICLE SIZE OF 125 MICRONS **Costco Parking Lot** (select from Rainfall Data column D) Particle size CDS Treatment Capacity CDS Hydraulic Capacity 10.0 Diameter Flowrate (cfs) 0.01 Flowrate (cfs) Intensity¹ Rate (%) Removal Efficiency Adjustment² = 6.5% Predicted % Annual Rainfall Treated = 93.5% Predicted Net Annual Load Removal Efficiency = 91.9% 1 - Based on 10 years of hourly precipitation data from NCDC 234, Albuquerque WSFO Airport, Bernalillio County, NM ? - Reduction due to use of 60-minute data for a site that has a time of concentration less than 30-minutes.

CONTECH CDS MANHOLE AND TREATMENT CALCULATIONS

NOT TO SCALE

Know what's below. Call before you dig. UTILITY CONFLICT NOTE:
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ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING

