CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



November 19, 2020

Paul Cragun, P.E. Cumulus Design 2080 N. Highway 360, Suite 240 Grand Prairie, TX 75050

RE: Chase Bank – Indian School Rd. 6670 Indian School Rd. NE Grading and Drainage Plans Engineer's Stamp Date: 11/09/20 Hydrology File: J18D001C

Dear Mr. Cragun:

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Based upon the information provided in your submittal received 11/09/2020, the Grading and Drainage Plans are approved for Building Permit and action by the DRB on Site Plan for Building Permit.

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 approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be 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, 924-3420) 14 days prior to any earth disturbance.

The Payment in Lieu payment of \$2,028.80 must be paid prior to Permanent Release of Occupancy approval. Please use the attached City of Albuquerque Treasury Deposit form. Once the Owner paid the fee, please provide Hydrology with a copy of the receipt.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology Planning Department

Renée C. Brissette



City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

		rmit #: BP-2020-40424 Hydrology File #: J18D001C
		Work Order#:
Legal Description: TRACT 1-D-1A1 PA		
City Address: 6670 INDIAN SCHOOL ROA	D NE ALBUQUERQUE	, NEW MEXICO 87110
Owner: JP Morgan Chase Bank Address: 7301 North Federal Blvd. Westmins Phone#: 720-275-0480	Fax#: Fax#: Fax#:	Contact: Carlos Iglesias E-mail: carlos@cumulusdesign.ne Contact: Sunil Dubey E-mail:
IS THIS A RESUBMITTAL?: X DEPARTMENT: TRAFFIC/ TRAN	Yes	
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFIC PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE MEPORT FLOODPLAIN DEVELOPMENT PER ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?	RMIT APPLIC	TYPE OF APPROVAL/ACCEPTANCE SOUGHT: BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY PRELIMINARY PLAT APPROVAL SITE PLAN FOR SUB'D 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: November 05, 2020		
COA STAFF:		C SUBMITTAL RECEIVED:

FEE PAID:

Review Comments
Chase Bank – Indian School Rd.
6670 Indian School Rd. NE
Grading and Drainage Plan
Engineer's Stamp Date: 10/08/20

Hydrology File: J18D001C

1. Please use the procedure for 40 acre and smaller basins as outlined in Development Process Manual (DPM) (signed 06/08/20) Article 6-2(a). Please provide both the existing conditions and proposed conditions for the 100-year 6-hour storm event.

Response: Noted. Used the 100-year 6-hour storm event.

2. 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 (Council Bill C/S O-18-2) and as outlined in DPM (signed 06/08/20) Article 6-12 Stormwater Quality and Low-Impact Development for the sizing calculations. Since this is site is a redevelopment the SWQ pond volume will be 0.26 * new impervious area (sf) * 1/12. 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 either being collected in the existing inlet or leaving the site for the public drainage system.

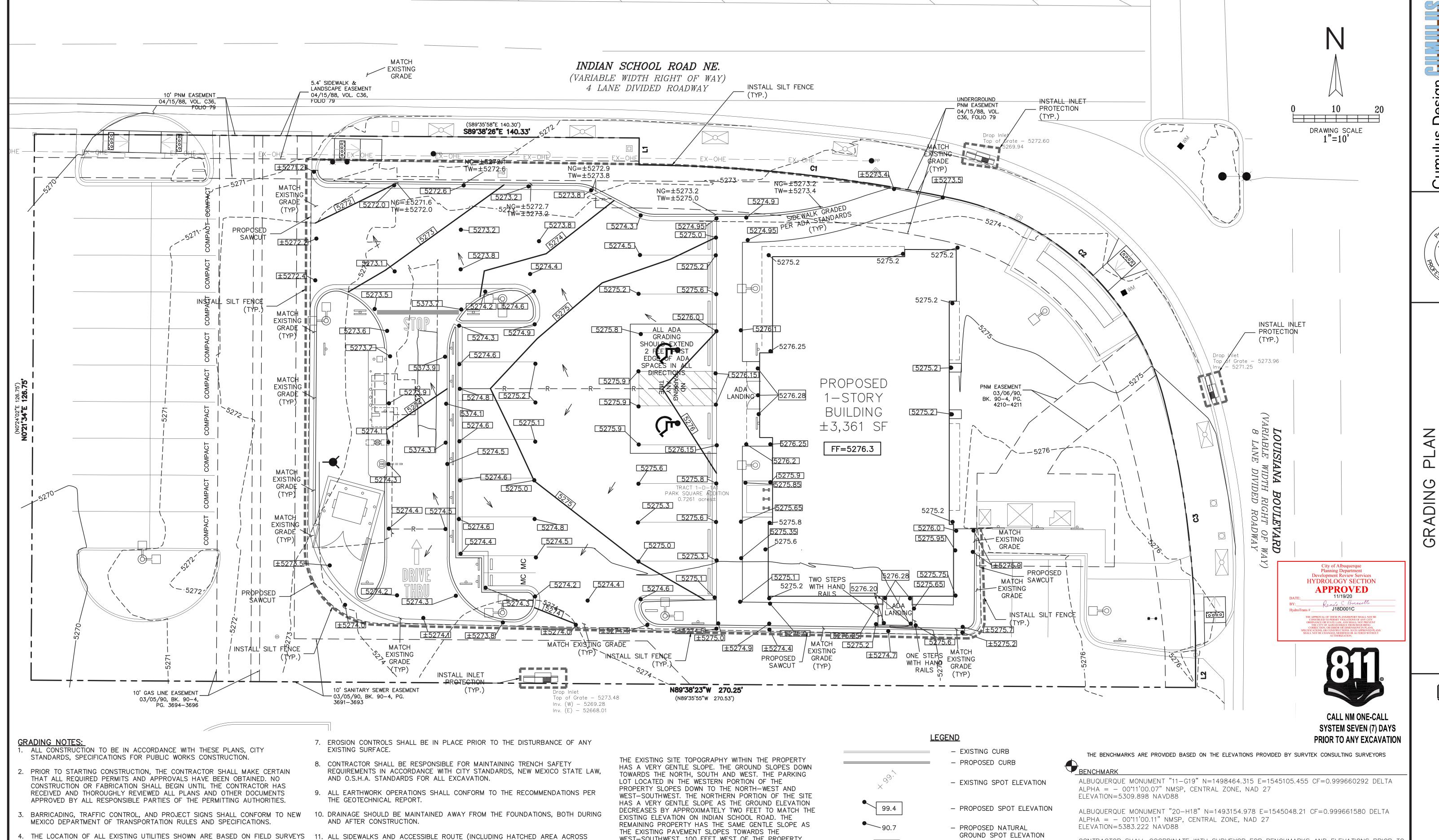
Response: Stormwater Quality Volume calculated. Request Payment-In-Lieu for Public Off-Site Mitigation.

- Please show the edge of saw cut of the existing pavement and label along this, "Match existing grades". It is currently unclear where the area of construction is starting/stopping.
 Response: Saw cut and label added to sheet C5.01.
- 4. On the Grading Plan, please shade back the existing survey points. It is hard to read what is being proposed.

Response: Existing Survey spot shots removed.

5. 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, 924-3420) 14 days prior to any earth disturbance.

Response: Noted. The area of disturbance is less than one-acre.



ENGINEER.

EXPENSE OF THE CONTRACTOR.

\\SERVER-PC\SERVER\2020 CDC PROJECTS\CDC20013 - INDIAN SCHOOL ROAD, ALBUQUERQUE\PLANS\GRADING PLAN CDC20013.DWG

AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL

AND SOLE RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO

LOCATE THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. ANY DAMAGE TO

CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS AND RIM ELEVATIONS PRIOR

BENCHMARKS HAVE BEEN PROVIDED AS A REFERENCE. IT IS THE CONTRACTOR'S

RESPONSIBILITY TO LOCATE, VERIFY, AND/OR ESTABLISH A BENCHMARKS PRIOR

SURVEY STAKES AND MARKERS FOR THE DURATION OF THE PROJECT. IF ANY

TO BE REPLACED, SUCH REPLACEMENT SHALL BE BY THE SURVEYOR AT THE

CONSTRUCTION STAKES OR MARKERS ARE LOST OR DISTURBED AND ARE NEEDED

TO CONSTRUCTION. IF CONFLICTS EXIST, THE CONTRACTOR IS TO CONTACT

TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE

EXISTING UTILITIES IS TO BE REPAIRED AT CONTRACTOR'S EXPENSE.

- DRIVES) SHALL MAINTAIN A 2% MAXIMUM CROSS SLOPE AND A MAXIMUM 5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- 12. SLOPE IN HANDICAP PARKING AREAS SHALL NOT EXCEED 2% IN ANY DIRECTION.
- 13. PROVIDE "FLAT" LANDINGS AT TOP AND BOTTOM OF ALL RAMPS. THESE "FLAT" AREAS SHALL BE 5' LONG AND THE SLOPE SHALL NOT EXCEED 2% IN ANY DIRECTION.
- 14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AND PARKING AT ALL TIMES.
- 15. SITE GRADING SHALL BE PERFORMED IN A MANNER TO DIRECT WATER AS INDICATED. SURFACE WATER SHALL NOT BE RELEASED ONTO ADJACENT PRIVATE PROPERTY.

WEST-SOUTHWEST. 100 FEET WEST OF THE PROPERTY ALONG INDIAN SCHOOL ROAD, THE GROUND SLOPES TOWARDS TO THE WEST. TO THE EAST OF THE SITE, LOUISIANA BOULEVARD RUNS NORTH/SOUTH. 100 FEET SOUTH OF THE SITE ALONG LOUISIANA BLVD., THE GROUND SLOPES TO THE SOUTH. THE PROPOSED CHASE BANK WILL NOT MAKE CHANGES TO THE EXISTING GENERAL TOPOGRAPHY OF THE SITE OR

THE AREA.

669 PROPOSED CONTOUR LIMITS OF CONSTRUCTION ——R——R——R—— - PROPOSED RIDGE SILT FENCE ______ INLET PROTECTION DIRECTIONAL FLOW ARROW PROPOSED SAWCUT _____

NATURAL GROUND

- TOP OF WALL/CURB

CONSTRUCTION. ENGINEER NOT RESPONSIBLE FOR PROVIDING BENCHMARKS AND BEARINGS.

EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION SUPPLIED BY VARIOUS PARTIES. THE ENGINEER DOES NOT ASSUME THE RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN. IT SHALL BE THE SOLE LOCATION OF ALL UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED AND NOTIFY THE ENGINEER OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE BY THE CONTRACTOR TO UTILITIES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR

CALL: NEW MEXICO ONE CALL @ NM 811 AT LEAST 7 DAYS PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL COORDINATE WITH SURVEYOR FOR BENCHMARKS AND ELEVATIONS PRIOR TO

!!! CAUTION !!!

UNDERGROUND UTILITIES RESPONSIBILITY OF THE CONTRACTOR(S) TO VERIFY THE HORIZONTALLY AND VERTICALLY

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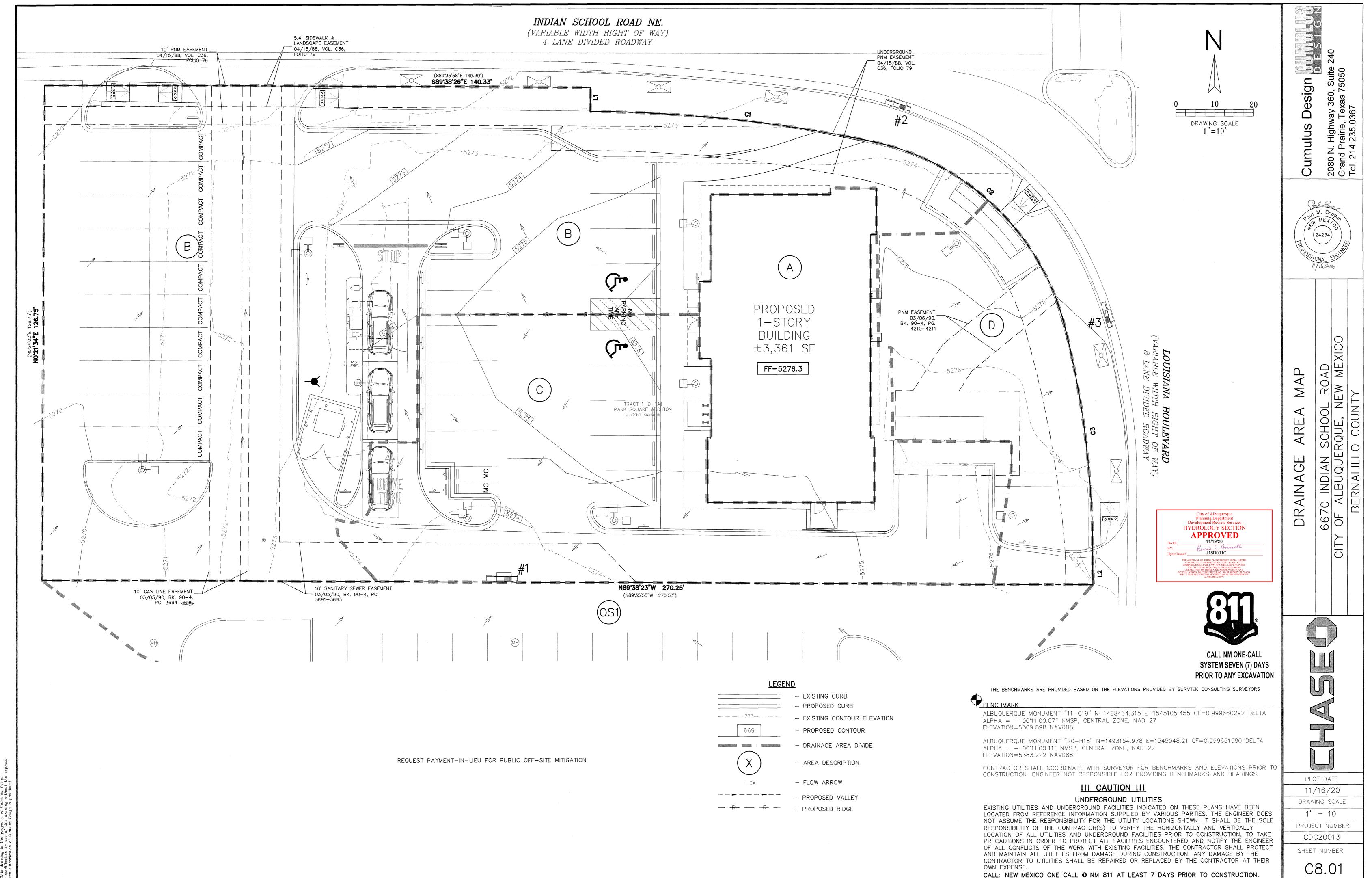
O INE ALBU SERN

PLOT DATE

11/05/20 DRAWING SCALE 1" = 10'

PROJECT NUMBER CDC20013

SHEET NUMBER



\\SERVER-PC\SERVER\2020 CDC PROJECTS\CDC20013 - INDIAN SCHOOL ROAD, ALBUQUERQUE\PLANS\PROPOSED DRAINAGE AREA MAP CDC20013.DWG

PLOT DATE

11/16/20 DRAWING SCALE

PROJECT NUMBER CDC20013

SHEET NUMBER

							PROPOS	SED DR	AINAGE	DATA	CHART	<u>.</u>	
DRAINAGE ID	AREA (SQ. FT.)	AREA (AC.)	C ₂	C10	C100	T _c (min)	12 (in/hr)	10 (in/hr)	100 (in/hr)	Q ₂ (cfs)	Q10 (cfs)	Q100 (cfs)	COMMENT
А	3361.09	0.08	0.89	0.54	0.91	5.0	1.94	3.12	4.96	0.13	0.13	0.35	ROOF DRAINS TO AREA "C" THEN TO INLET #1
В	17024.66	0.39	0.74	0.50	0.83	5.0	1.94	3.12	4.96	0.56	0.61	1.61	DRAINS TO INDIAN SCHOOL RD THEN TO INLET #2
С	7906.67	0.18	0.81	0.52	0.87	5.0	1.94	3.12	4.96	0.29	0.29	0.78	DRAINS TO INLET #1
D	3335.81	0.08	0.16	0.36	0.54	5.0	1.94	3.12	4.96	0.02	0.09	0.21	DRAINS TO LOUISIANA BLVD THEN TO INLET #3
0S1	7709.17	0.18	0.16	0.36	0.54	5.0	1.94	3.12	4.96	0.05	0.20	0.47	DRAINS TO AREA "C"
TOTAL	31628.23	0.73								1.06	1.32	3.42	

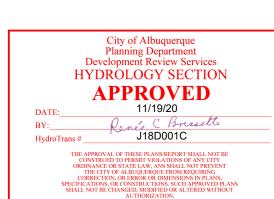
CALCULATIONS ARE BASED ON THE RATIONAL METHOD FROM CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL CHAPTER 6 - DRAINAGE, FLOOD CONTROL AND EROSION CONTROL. DATED 06/08/2020

	COMPOSITE ANALYSIS FOR RUNOFF COEFFICIENT														
DRAINAGE ID	PERCENT IMPERVIOUS	PERCENT PERVIOUS	C IMPERVIOUS (2 year)	C PERVIOUS (2 year)	C IMPERVIOUS (10 year)	C PERVIOUS (10 year)	C IMPERVIOUS (100 year)	C PERVIOUS (100 year)	COMPOSITE C (2 year)	COMPOSITE C (10 year)	COMPOSITE C (100 year)				
Α	100.0	0.0	0.89	0.08	0.54	0.34	0.91	.50	0.89	0.54	0.91				
В	81.2	18.8	0.89	0.08	0.54	0.34	0.91	.50	0.74	0.50	0.83				
С	90.6	9.4	0.89	0.08	0.54	0.34	0.91	.50	0.81	0.52	0.87				
D	9.5	90.5	0.89	0.08	0.54	0.34	0.91	.50	0.16	0.36	0.54				
OS1	9.9	90.1	0.89	0.08	0.54	0.34	0.91	.50	0.16	0.36	0.54				

80TH PERCENTILE STORMWATER QUALITY VOLUME TABLE											
DRAINAGE ID	NEW IMPERVIOUS AREA (SQ. FT.)	REDEVELOPMENT SITE FACTOR	80TH PERCENTILE STORM VOLUME (CFS)								
А	3362.0	0.26	72.8								
В	4980.0	0.26	107.9								
С	3362.0	0.26	72.8								
D	0.0	0.26	0.0								
			253.6								

REQUEST PAYMENT-IN-LIEU FOR PUBLIC OFF-SITE MITIGATION

WEIGHTED ANALYSIS FOR 6-HOUR EXCESS PRECIPITATION, 'E'													
DRAINAGE ID	LAND TREATMENT B	LAND TREATMENT D	AREA LAND TREATMENT B	AREA LAND TREATMENT D	WEIGHTED E (100 year) (IN)	VOLUME (100 year) (ACRE-FT)							
А	0.86	2.58	0.000	0.080	2.580	0.045							
В	0.86	2.58	0.073	0.317	2.257	0.008							
С	0.86	2.58	0.017	0.163	2.418	0.056							
D	0.86	2.58	0.008	0.0724	2.417	0.016							
	TOTAL VOLUME												





CALL NM ONE-CALL SYSTEM SEVEN (7) DAYS

PRIOR TO ANY EXCAVATION THE BENCHMARKS ARE PROVIDED BASED ON THE ELEVATIONS PROVIDED BY SURVTEK CONSULTING SURVEYORS

ALBUQUERQUE MONUMENT "11-G19" N=1498464.315 E=1545105.455 CF=0.999660292 DELTA $ALPHA = -00^{\circ}11'00.07"$ NMSP, CENTRAL ZONE, NAD 27 ELEVATION=5309.898 NAVD88

ALBUQUERQUE MONUMENT "20-H18" N=1493154.978 E=1545048.21 CF=0.999661580 DELTA ALPHA = - 00°11'00.11" NMSP, CENTRAL ZONE, NAD 27 ELEVATION=5383.222 NAVD88

CONTRACTOR SHALL COORDINATE WITH SURVEYOR FOR BENCHMARKS AND ELEVATIONS PRIOR TO CONSTRUCTION. ENGINEER NOT RESPONSIBLE FOR PROVIDING BENCHMARKS AND BEARINGS.

!!! CAUTION !!!

UNDERGROUND UTILITIES

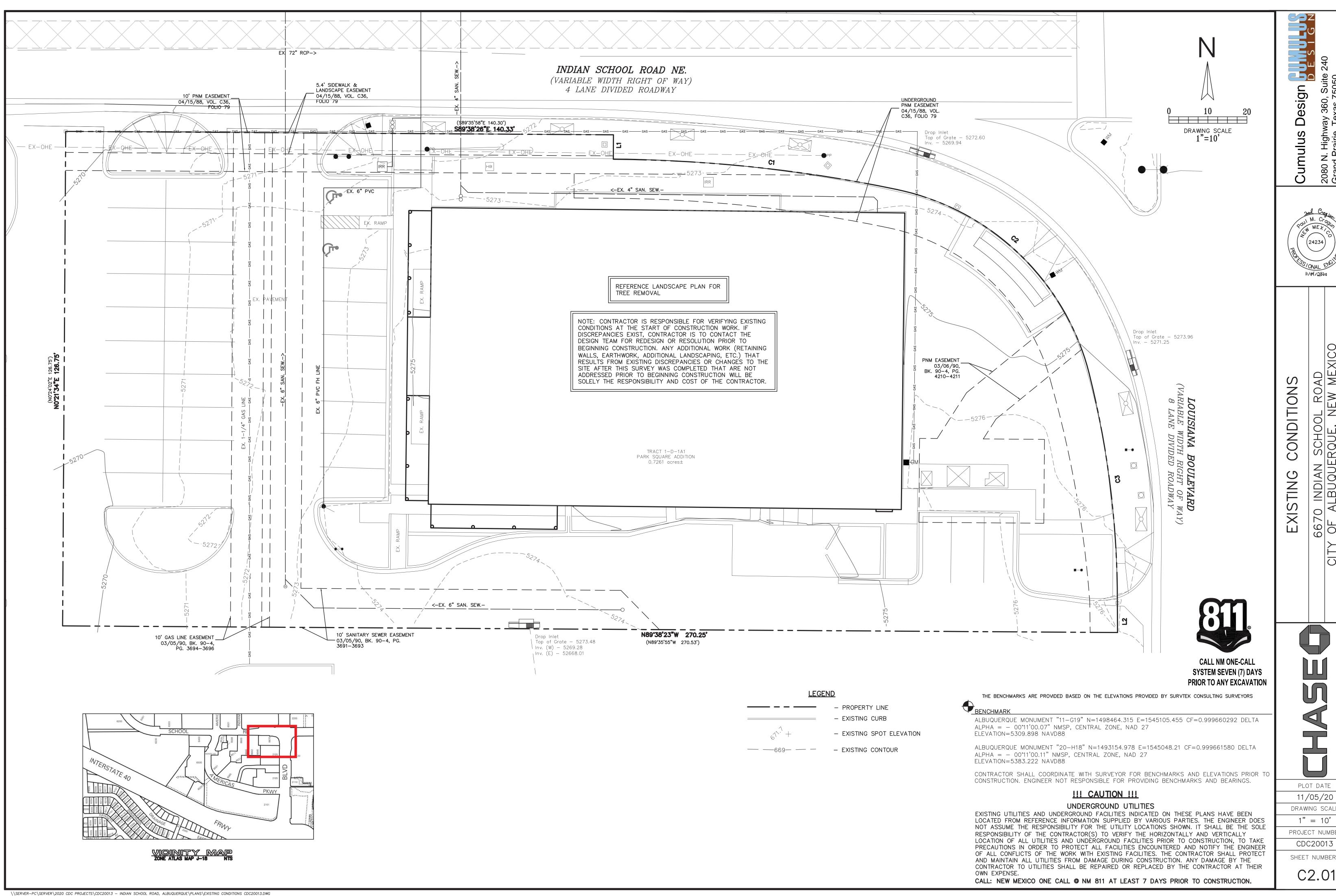
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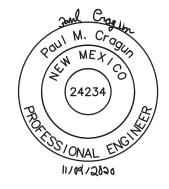
DRAINAGE CRITERIA

ZONE 3 Q=C*I*A I₂=1.94 in/hr

l₁₀=3.12 in/hr l₁₀₀=4.96 in/hr tc=12 min.

\\SERVER-PC\SERVER\2020 CDC PROJECTS\CDC20013 - INDIAN SCHOOL ROAD, ALBUQUERQUE\PLANS\PROPOSED DRAINAGE AREA MAP CDC20013.DWG





AD ME

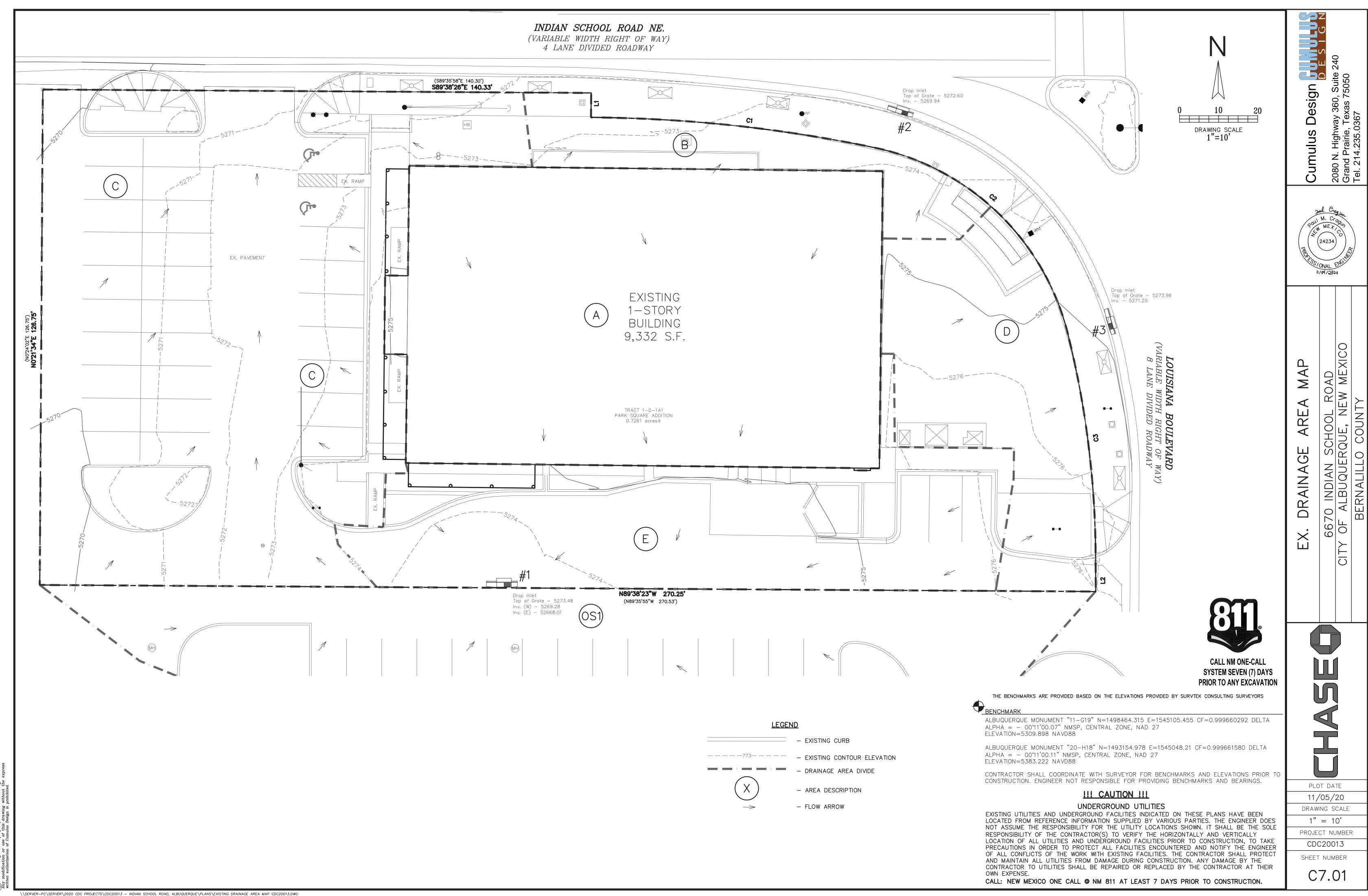
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PLOT DATE 11/05/20 DRAWING SCALE

PROJECT NUMBER

SHEET NUMBER

C2.01



(() This drawing is the property of Cumulus Design

	COMPOSITE ANALYSIS FOR RUNOFF COEFFICIENT														
DRAINAGE ID	PERCENT IMPERVIOUS	PERCENT PERVIOUS	C IMPERVIOUS (2 year)	C PERVIOUS (2 year)	C IMPERVIOUS (10 year)	C PERVIOUS (10 year)	C IMPERVIOUS (100 year)	C PERVIOUS (100 year)	COMPOSITE C (2 year)	COMPOSITE C (10 year)	COMPOSITE C (100 year)				
Α	100.0	0.0	0.89	0.08	0.54	0.34	0.91	.50	0.89	0.54	0.91				
В	6.6	93.4	0.89	0.08	0.54	0.34	0.91	.50	0.13	0.35	0.53				
С	89.5	10.5	0.89	0.08	0.54	0.34	0.91	.50	0.80	0.52	0.87				
D	9.5	90.5	0.89	0.08	0.54	0.34	0.91	.50	0.16	0.36	0.54				
E	89.5	10.5	0.89	0.08	0.54	0.34	0.91	.50	0.80	0.52	0.87				
OS1	9.9	90.1	0.89	0.08	0.54	0.34	0.91	.50	0.16	0.36	0.54				

DRAINAGE CRITERIA
ZONE 3
Q=C*I*A
I2=1.94 in/hr
I10=3.12 in/hr
I100=4.96 in/hr
tc=12 min.

							EXISTI	NG DRA	INAGE [DATA C	HART		
DRAINAGE ID	AREA (SQ. FT.)	AREA (AC.)	C ₂	C10	C100	T _c (min)	l2 (in/hr)	110 (in/hr)	1100 (in/hr)	Q2 (cfs)	Q10 (cfs)	Q100 (cfs)	COMMENT
А	9334.46	0.21	0.89	0.54	0.91	12.0	1.94	3.12	4.96	0.37	0.36	0.97	ROOF DRAINS TO AREA "E" THEN TO INLET #1
В	1540.23	0.04	0.13	0.35	0.53	12.0	1.94	3.12	4.96	0.01	0.04	0.09	DRAINS TO INDIAN SCHOOL RD THEN TO INLET #2
С	12041.98	0.28	0.80	0.52	0.87	12.0	1.94	3.12	4.96	0.43	0.45	1.19	DRAINS TO INDIAN SCHOOL RD THEN TO INLET #2
D	3329.78	0.08	0.16	0.36	0.54	12.0	1.94	3.12	4.96	0.02	0.09	0.20	DRAINS TO LOUISIANA BLVD THEN TO INLET #3
Е	5381.77	0.12	0.80	0.52	0.87	12.0	1.94	3.12	4.96	0.19	0.20	0.53	DRAINS TO INLET #1
OS1	7709.17	0.18	0.16	0.36	0.54	12.0	1.94	3.12	4.96	0.05	0.20	0.47	DRAINS TO AREA "E"
TOTAL	31628.23	0.73								1.08	1.33	3.46	

CALCULATIONS ARE BASED ON THE RATIONAL METHOD FROM CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL CHAPTER 6 — DRAINAGE, FLOOD CONTROL AND EROSION CONTROL. DATED 06/08/2020

WEIG	WEIGHTED ANALYSIS FOR 6-HOUR EXCESS PRECIPITATION, 'E'												
DRAINAGE ID	LAND TREATMENT B	LAND TREATMENT D	AREA LAND TREATMENT B	AREA LAND TREATMENT D	WEIGHTED E (100 year) (IN)	VOLUME (100 year) (ACRE-FT)							
А	0.86	2.58	0.000	0.210	2.580	0.045							
В	0.86	2.58	0.037	0.003	0.989	0.003							
С	0.86	2.58	0.030	0.250	2.396	0.056							
D	0.86	2.58	0.072	0.0080	1.032	0.007							
Е	0.86	2.58	0.013	0.107	2.394	0.036							
				TOTAL \	0.147								



THE BENCHMARKS ARE PROVIDED BASED ON THE ELEVATIONS PROVIDED BY SURVIEK CONSULTING SURVEYORS

BENCHMAR

ALBUQUERQUE MONUMENT "11-G19" N=1498464.315 E=1545105.455 CF=0.999660292 DELTA ALPHA = - 00°11'00.07" NMSP, CENTRAL ZONE, NAD 27 ELEVATION=5309.898 NAVD88

ALBUQUERQUE MONUMENT "20-H18" N=1493154.978 E=1545048.21 CF=0.999661580 DELTA ALPHA = - 00°11'00.11" NMSP, CENTRAL ZONE, NAD 27 ELEVATION=5383.222 NAVD88

CONTRACTOR SHALL COORDINATE WITH SURVEYOR FOR BENCHMARKS AND ELEVATIONS PRIOR TO CONSTRUCTION. ENGINEER NOT RESPONSIBLE FOR PROVIDING BENCHMARKS AND BEARINGS.

!!! CAUTION !!!

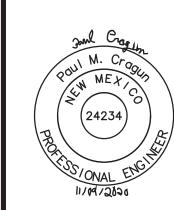
UNDERGROUND UTILITIES

EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION SUPPLIED BY VARIOUS PARTIES. THE ENGINEER DOES NOT ASSUME THE RESPONSIBILITY FOR THE UTILITY LOCATIONS SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO VERIFY THE HORIZONTALLY AND VERTICALLY LOCATION OF ALL UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED AND NOTIFY THE ENGINEER OF ALL CONFLICTS OF THE WORK WITH EXISTING FACILITIES. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE BY THE

CALL: NEW MEXICO ONE CALL @ NM 811 AT LEAST 7 DAYS PRIOR TO CONSTRUCTION.

CONTRACTOR TO UTILITIES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR

S Design Film S 1 G hway 360, Suite 240



OAD V MEXICO

6670 INDIAN SCHOOL ROAY OF ALBUQUERQUE, NEW NERNALILLO COUNTY

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PLOT DATE 11/05/20

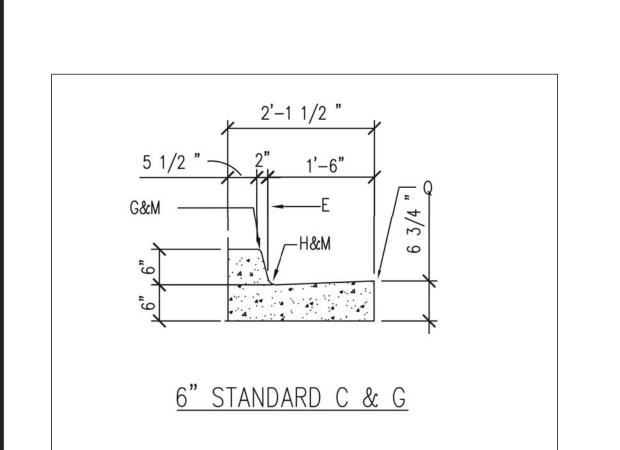
DRAWING SCALE

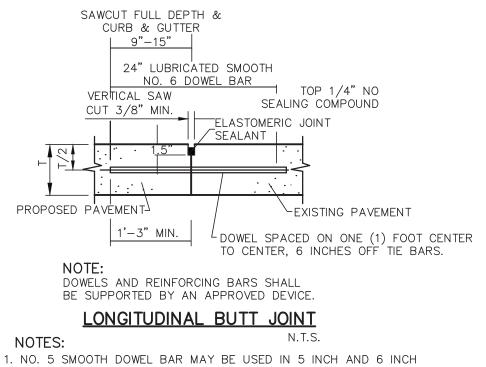
PROJECT NUMBER

CDC20013

SHEET NUMBER

7.02





1. NO. 5 SMOOTH DOWEL BAR MAY BE USED IN 5 INCH AND 6 INCH 2. LONGITUDINAL BUT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION. 3. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.

4. DRILLED BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO GREEN CONCRETE NOT ACCEPTABLE.

24" NO. 5 SMOOTH DOWEL 16" DOWEL COATING 2" MIN. HOT POURED RUBBER TOP 1/4" NO JOINT SEALING COMPOUND SEALING COMPOUND 3/4" DOWEL SLEEVE (CLOSED END) TO FIT DOWEL AND BE SECURED TO BE INSTALLED └NO. 4 BARS ON 18" CTRS. EA. WAY REDWOOD EXPANSION JOINT FILLER

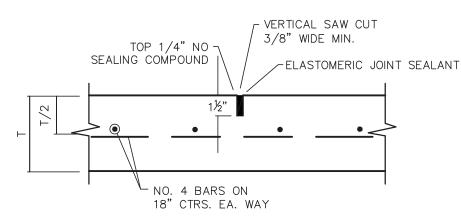
DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE. LOCATED AS INDICATED OR AS NEEDED. JOINTS TO BE ON MAXIUM OF 75' SPACING AND LOCATED AT POINTS OF INFLECTION AND MINIMUM CONCRETE WIDTH WHERE

T=THICKNESS OF PAVEMENT **EXPANSION JOINT**

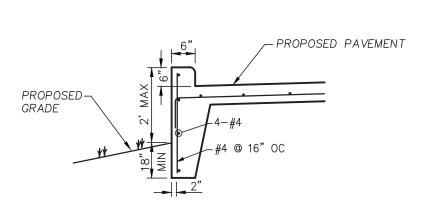
NOTE: ALL JOINTS SHALL EXTEND THROUGH AND

BE PERPENDICULAR CONCRETE CURBS AND SHALL

MATCH SIDEWALK JOINTS WHERE APPLICABLE.

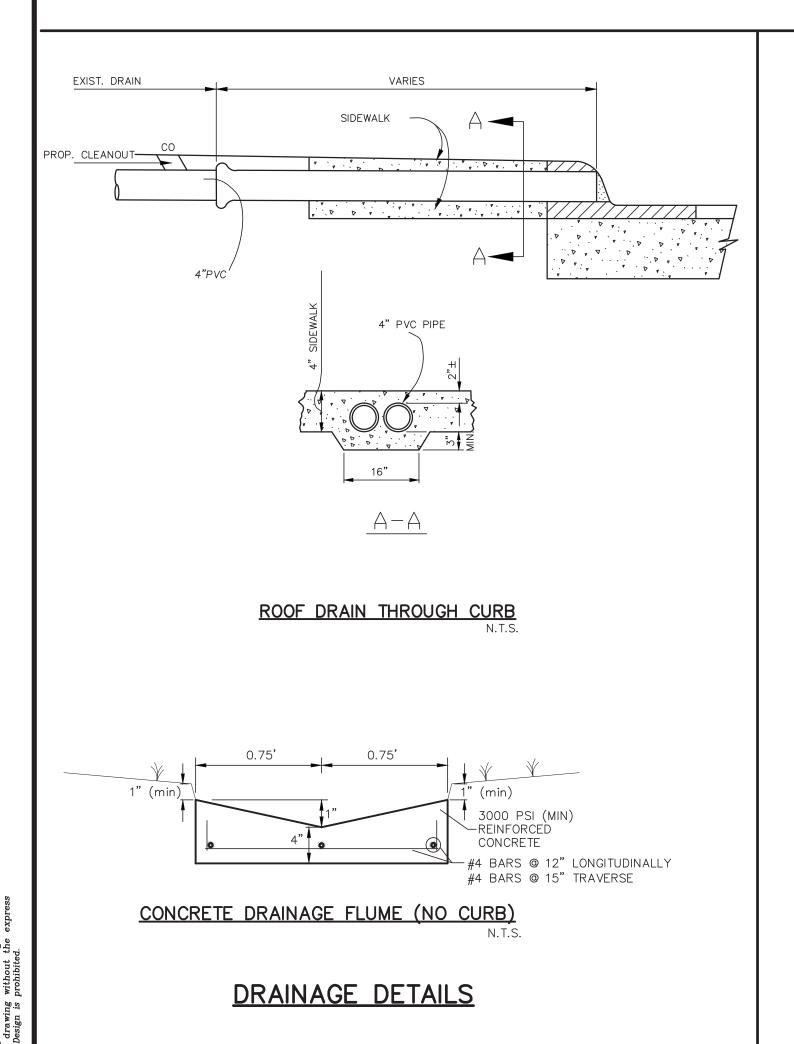


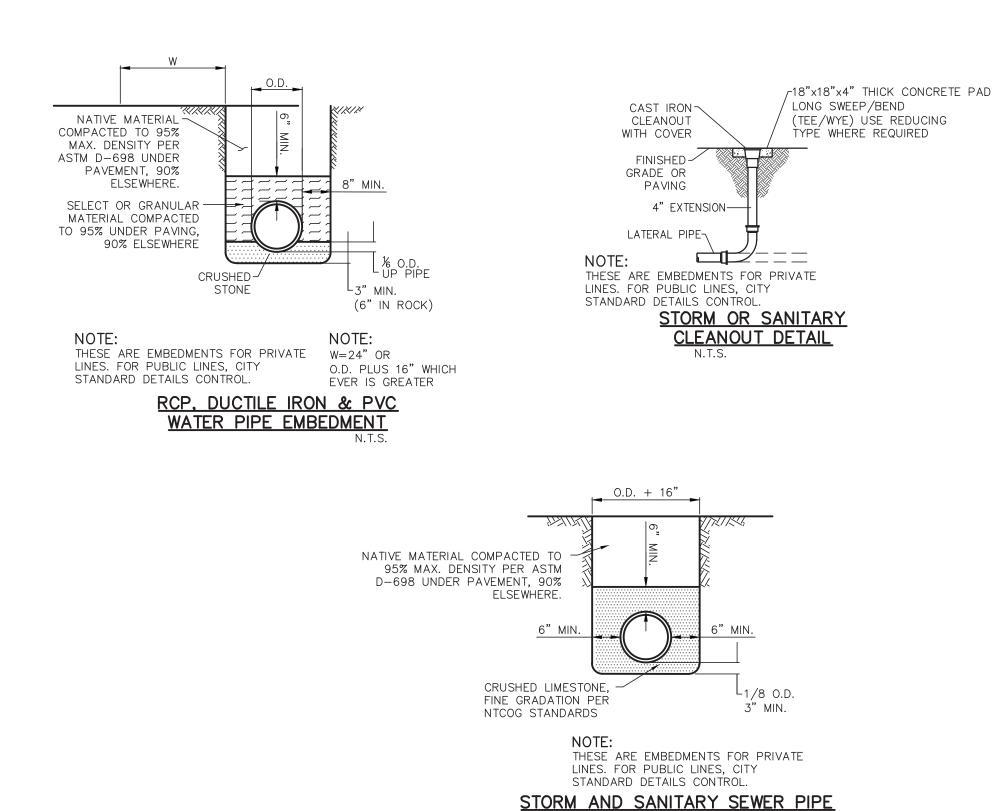
SAWED DUMMY (CONTROL) JOINT NOTE: MAXIMUM SPACING IS 15' CENTERS



TURN DOWN CURB DETAIL

PAVEMENT DETAILS

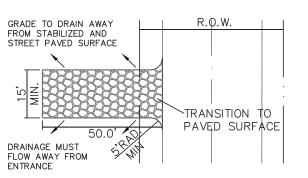




EMBEDMENT-PVC AND POLYETHYLENE

UTILITY DETAILS

GRADE TO PREVENT RUNOFF FROM LEAVING SITE PAVED SURFACE FABRIC GRADE PROFILE VIEW GRADE TO DRAIN AWAY FROM STABILIZED AND STREET PAVED SURFACE



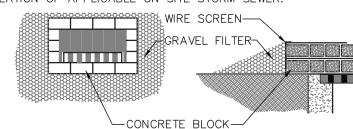
<u>PLAN VIEW</u>

- 1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.
- 2. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FORM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
- 3. THE ENTRANCE SHALL MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE A CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES, MUST BE REMOVED IMMEDIATELY.
- 4. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE

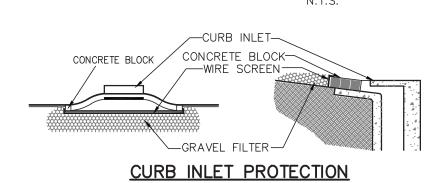
BLOCK AND GRAVEL PROTECTION CONCRETE BLOCKS ARE TO BE PLACED ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, WITH ENDS ABUTTING. OPENING IN THE BLOCKS SHOULD FACE OUTWARD, NOT UPWARD . WIRE MESH SHALL THEN BE PLACED OVER THE OUTSIDE FACE OF THE BLOCKS COVERING THE HOLES . FILTER STONE SHALL THEN BE PILED AGAINST THE WIRE MESH TO THE TOP OF THE BLOCKS WITH THE BASE OF THE STONE BEING A MINIMUM OF 18 INCHES FROMTHE BLOCKS. PERIODICALLY, WHEN THE STONE FILTER BECOMES CLOGGED, THE STONE MUST BE REMOVED AND CLEANED IN A PROPER MANNER OR REPLACED WITH NEW STONE AND PILED BACK AGAINST THE WIRE MESH.

CONSTRUCTION NOTES - INLET PROTECTION

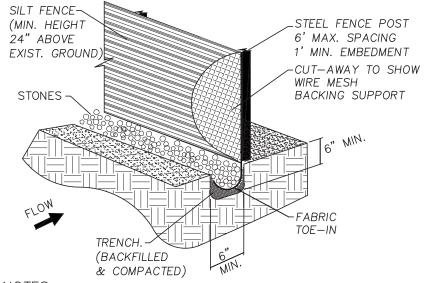
- 1. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION OR POLLUTION DEVICES AS REQUIRED DURING THE CONSTRUCTION PHASE IN ORDER TO COMPLETELY CONFORM TO THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AND ALL OTHER AGENCIES HAVING JURISDICTION.
- 2. CONTRACTOR AND OWNER SHALL FILE N.O.I. PER EPA REQUIREMENTS.
- 3. ONSITE CURB INLET PROTECTION SHALL BE CONSTRUCTED UPON INSTALLATION OF APPLICABLE ON SITE STORM SEWER.



DROP INLET PROTECTION



STABILIZED CONSTRUCTION ENTRANCE



1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.THE POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.

2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON THE UPHILL SIDE TO PREVENT FLOW UNDER FENCE.

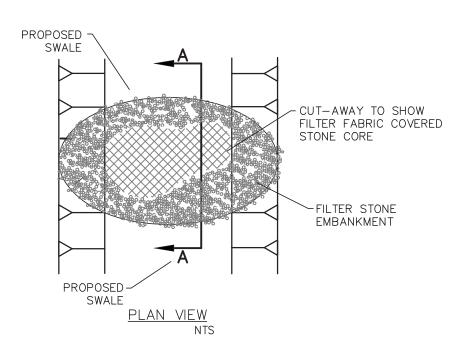
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

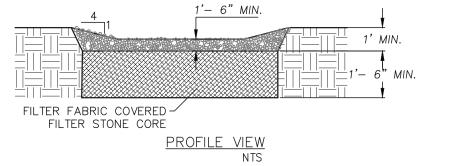
4. SILT FENCE SHALL BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL SUPPORT POST. THERE SHALL BE A 6 INCH DOUBLE OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.

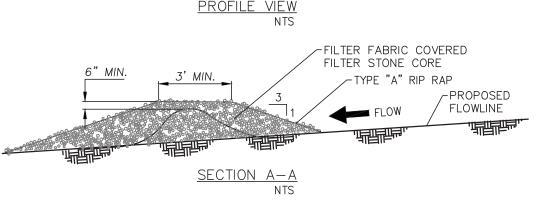
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL.REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHED A DEPTH OF 6 INCHES.THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION. SILT FENCE







ROCK CHECK DAM

EROSION CONTROL

DETAILS ON THIS SHEET ARE PRIVATE. ALL WORK WITHIN PUBLIC EASEMENTS OR RIGHT—OF—WAY SHALL BE PER CITY (OR STATE, IF APPLICABLE) STANDARD DETAILS. THE CONTRACTOR IS REQUIRED TO HAVE ON-SITE, AT ALL TIMES, A COPY OF THE CITY'S CONSTRUCTION DETAILS.

sign



PRIV, 10|X|01 ALBUQU SERNALIL AIL

PLOT DATE 11/05/20 DRAWING SCALE

PROJECT NUMBER CDC20013

SHEET NUMBER

C13.01