CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director

Mayor Timothy M. Keller

February, 18 2022

Amit Pathak, P.E.
Bohannan Huston Inc.
7500 Jefferson St. NE Courtyard I
Albuquerque, NM 87109

RE: Monte Vista Elementary School
3211 Monte Vista Dr. NE
Grading and Drainage Plan
Engineer's Stamp Date: 1/11/2022
Hydrology File: K16D017

Dear Mr. Bohannan:

Based upon the information provided in your submittal received 1/4/2022, the Grading & Drainage Plan **is not** approved for Building Permit. The following comments need to be addressed for approval of the above referenced project:

PO Box 1293

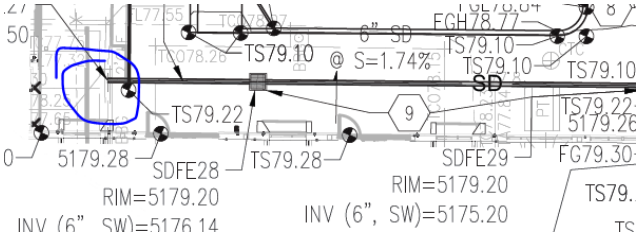
Albuquerque

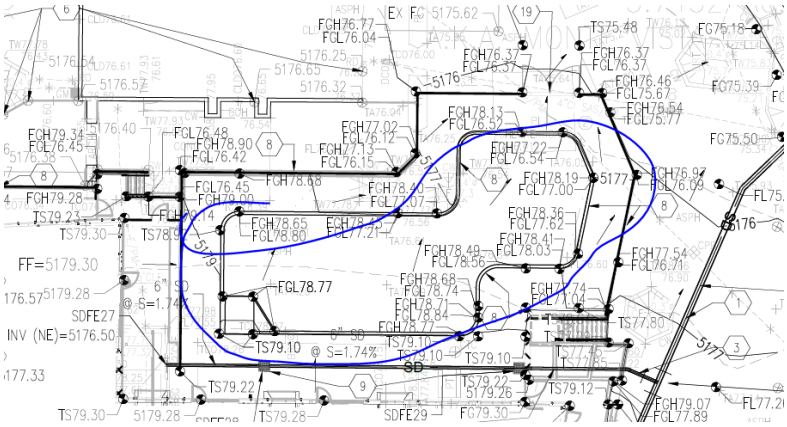
NM 87103

www.cabq.gov

General Notes

1. Please show how the site drainage is getting off-site.
2. Please provide a detail of the proposed swale.
    a. This appears to act more like a pond for water quality. Is that the intention? If so, please call this out and provide volume.
3. Elaborate how you will treat the flow for the proposed parking lot for storm water quality.
4. On the overall, please show elevations for the pond/swale.
5. You are showing sections (A and B) on C-200 but do not show where these are on the site. Please show what location.
6. Clearly delineate the affected construction area.
7. It is difficult to know what is being proposed vs what is existing. Is there any new pavement? If so show it.
8. Label all affected area and calculate what is proposed vs existing clearly in narrative.
9. Please calculate the water quality volume required (this will include the entire construction area that is affected/changed for redevelopment per DPM CH 6)
10. Please clean the plans up so it is clear how the elevations are changing.
11. Clearly show how existing flows will be affected by the proposed building and drain system.

a. 

a. 

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14. Overall, the site needs to clearly show how water is moving through the site and where it ends up.

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.

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

Sincerely,

David G. Gutierrez, P.E.
Senior Engineer, Hydrology
Planning Department

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Monte Vista Elementary School Building Permit #: _____ Hydrology File #: _____

DRB#: N/A EPC#: N/A Work Order#: _____

Legal Description: 014MONTS VISTA ADD

City Address: 3211 MONTE VISTA DR NE ALBUQUERQUE NM 87106

Applicant: BOHANNAN HUSTON INC Contact: Amit Pathak

Address: 7500 JEFFERSON ST NE COURTYARD I ALBUQUERQUE NM 87109

Phone#: 823-1000 Fax#: _____ E-mail: apathak@bhinc.com

Other Contact: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) _____ RESIDENCE X DRB SITE ___ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes X No

DEPARTMENT _____ TRANSPORTATION X HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

____ ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
____ CONCEPTUAL G & D PLAN
X GRADING PLAN
X DRAINAGE REPORT
____ DRAINAGE MASTER PLAN
____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
____ ELEVATION CERTIFICATE
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)
____ STREET LIGHT LAYOUT
____ OTHER (SPECIFY) _____
___ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

X BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY

____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
____ SITE PLAN FOR BLDG. PERMIT APPROVAL
____ FINAL PLAT APPROVAL

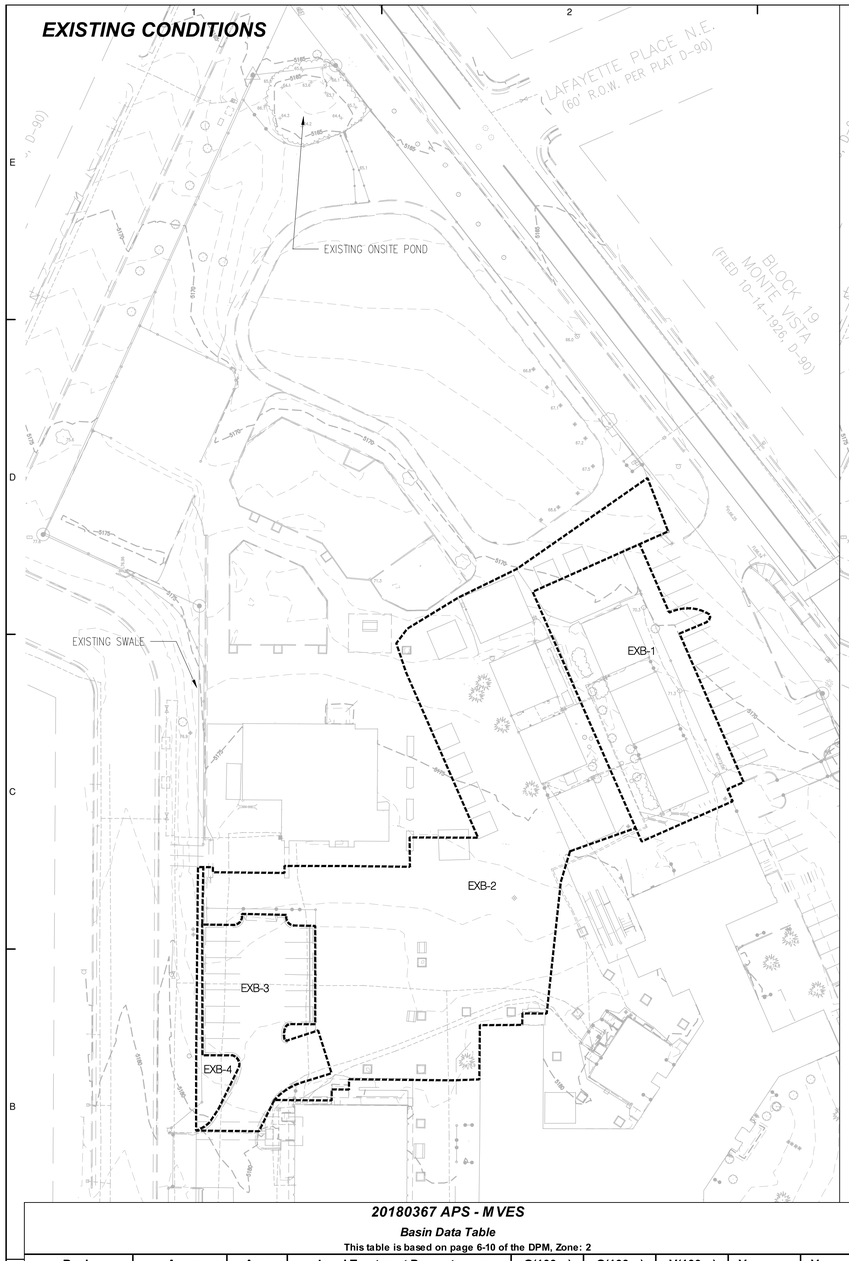
____ SIA/ RELEASE OF FINANCIAL GUARANTEE
____ FOUNDATION PERMIT APPROVAL
X GRADING PERMIT APPROVAL
____ SO-19 APPROVAL
____ PAVING PERMIT APPROVAL
____ GRADING/ PAD CERTIFICATION
____ WORK ORDER APPROVAL
____ CLOMR/LOMR
____ FLOODPLAIN DEVELOPMENT PERMIT
____ OTHER (SPECIFY) _____

DATE SUBMITTED: 01-11-2022 By: Amit Pathak

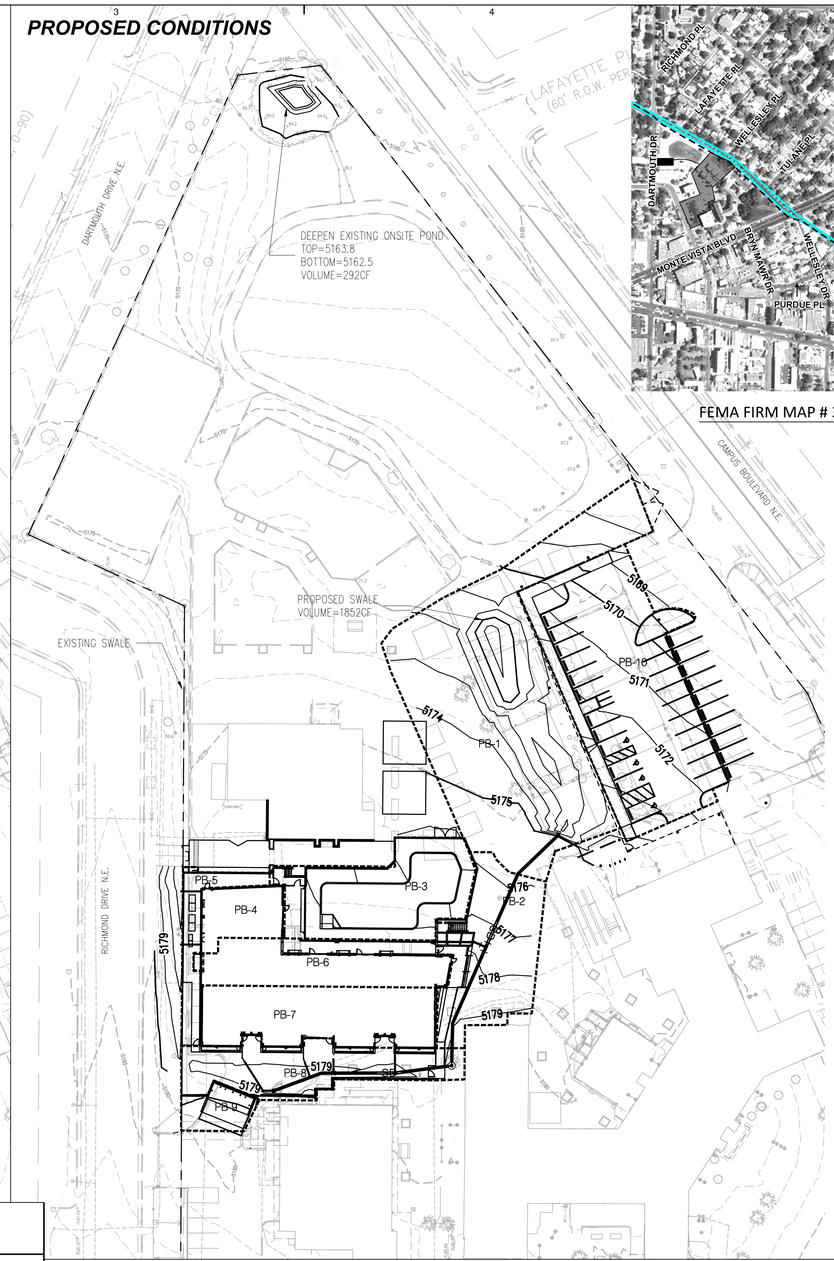
COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

EXISTING CONDITIONS



PROPOSED CONDITIONS



FEMA FIRM MAP # 35001C0353H

LEGEND

- PROPERTY LINE
- LIMITS OF GRADING
- 5025 EXISTING INDEX CONTOUR
- 5024 EXISTING INTERMEDIATE CONTOUR
- 5025 PROPOSED INDEX CONTOUR
- 5024 PROPOSED INTERMEDIATE CONTOUR
- DRAINAGE BASIN

DRAINAGE NARRATIVE

INTRODUCTION AND METHODOLOGY:

THE PURPOSE OF THIS SUBMITTAL IS TO PRESENT A DRAINAGE AND GRADING PLAN FOR THE MONTE VISTA ELEMENTARY SCHOOL (MVES) BUILDING ADDITION AND PARKING LOT RENOVATION. THIS PROJECT WILL CONSIST OF THE REMOVAL AND REPLACEMENT OF EXISTING WEST PARKING LOT AND COURTYARD. IN ADDITION, THE NORTH PARKING LOT WILL BE EXPANDED. THE SCHOOL IS LOCATED ON THE NORTHWEST CORNER OF MONTE VISTA BLVD AND CAMPUS BLVD NE. PER FEMA COMMUNITY MAP PANEL #35001C0353H, THE SITE IS NOT LOCATED WITHIN A FLOODPLAIN. CAMPUS DRIVE NW IS IDENTIFIED AS BEING IN ZONE AO WITH A DEPTH OF 1-FT. THE SITE IS IN RAINFALL ZONE 2. THE LIMITS OF CONSTRUCTION ARE LESS THAN 1 ACRE (0.89 ACRES).

THE HYDROLOGIC ANALYSIS PROVIDED WITH THIS DRAINAGE SUBMITTAL HAS BEEN PREPARED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, CHAPTER 6 (DRAINAGE, FLOOD CONTROL, AND EROSION CONTROL). LAND TREATMENT PERCENTAGES WERE CALCULATED BASED ON THE EXISTING AND PROPOSED CONDITIONS IN EACH ONSITE BASIN AND ARE SUMMARIZED IN THE "APS-MVES BASIN DATA TABLE" (THIS SHEET). THIS SITE WAS ANALYZED FOR THE 100-YEAR, 6-HOUR AND THE 100-YEAR, 10-DAY STORM EVENTS. THE STORM DRAIN IS SIZED TO CONVEY THE 100-YR, 10-DAY STORM EVENT AND THE SWALE IS SIZED TO RETAIN THE FIRST FLUSH VOLUME.

EXISTING CONDITIONS:

THE SITE IS CURRENTLY DEVELOPED AND ALMOST ENTIRELY IMPERVIOUS. THE SITE CONTAINS PORTABLE BUILDINGS, COURTYARD, SMALL LANDSCAPED ISLANDS, AND PARKING AREAS. THE SITE SLOPES GENERALLY FROM SOUTHEAST TO NORTHWEST. THERE IS NO ONSITE STORM DRAINAGE INFRASTRUCTURE. THE SITE SHEET FLOWS TO A POND LOCATED AT THE NORTHWEST POINT OF THE MVES PROPERTY WHICH DETAINS THE ONSITE RUNOFF AND CONVEYS STORM RUNOFF TO THE STORM DRAIN SYSTEM UNDER CAMPUS BLVD NE. THE EXISTING IMPROVEMENTS WERE PART OF A PREVIOUSLY APPROVED DRAINAGE MANAGEMENT PLAN.

THE IMPACTED 1.13 ACRE SITE DISCHARGES APPROXIMATELY 4.80 CFS TO THE NORTH POND AND OFFSITE IN EXISTING CONDITIONS.

PROPOSED:

THE PROPOSED SITE WILL FOLLOW THE SAME EXISTING DRAINAGE SCHEME. THE SITE IS DIVIDED INTO 10 ONSITE BASINS. THE PROPOSED RENOVATIONS INCLUDE REMOVING AND REPLACING THE PARKING AND COURTYARD AREAS. THE AREA WILL BE RE-GRADED AND NEW STORM DRAIN WILL BE INSTALLED. THE LAND TREATMENTS, VOLUME CALCULATIONS FOR THE CONTRIBUTING BASINS, AND SWALE VOLUME CALCULATIONS ARE SHOWN IN TABLE FORMAT ON THIS SHEET.

THE AREAS OF THE SITE TO BE RE-GRADED WILL DIRECT FLOWS TO THE NORTH PONDING AREA BY EXISTING AND NEW SWALES AND A NEW STORM DRAIN SYSTEM. BASINS PB1-3 AND PB6-8 (THE COURTYARD, MOST OF THE ROOF DRAINS, AND NEW PLAY AREAS) ARE DIRECTED TO THE SWALE IN BASIN PB1 BY STORM DRAINS AND RE-GRADING. THE RUNOFF FLOWS FROM THE SWALE TO THE POND AT THE NORTH OF THE SITE. BASINS PB4, 5, AND 9 ARE DIRECTED TO THE EXISTING ROADSIDE SWALE ALONG THE WEST PROPERTY EDGE BY RE-GRADING. THIS ROAD SIDE SWALE FOLLOWS THE EXISTING DRAINAGE SCHEME AND DIRECTS RUNOFF TO THE POND AT THE NORTH OF THE SITE. HENCE, RUNOFF FROM BASINS PB1-9 FLOW TO THE NORTH POND AND ARE CONVEYED TO THE STORM DRAIN SYSTEM UNDER CAMPUS BLVD NE SIMILAR TO EXISTING CONDITIONS. FURTHERMORE, THE NORTH POND HAS BEEN DEEPENDED AND THE SWALE IN BASIN PB1 ARE DESIGNED TO INCORPORATE STORM WATER QUALITY DETENTION VOLUMES. RUNOFF FROM BASIN PB10 IS UN-CAPTURED AND SURFACE FLOWS OUT TO THE STREET SIMILAR TO EXISTING CONDITIONS.

THE TOTAL RUNOFF FROM THE SITE IS 4.58 CFS. THIS IS LESS THAN THE 4.80 CFS IN EXISTING CONDITIONS. THIS REDEVELOPED SITE IS REQUIRED TO INCORPORATE 819 CF OF STORMWATER QUALITY PONDING ONSITE (0.26 INCHES OVER THE IMPERVIOUS AREA). STORMWATER QUALITY PONDING IS A BEST PRACTICE. SO BASIN PB1 HAS A LANDSCAPED DETENTION SWALE PROVIDING 1,852 CF OF ONSITE STORAGE. THERE IS ALSO 292 CF OF STORMWATER QUALITY VOLUME PROVIDED BY REGRADING THE BOTTOM OF THE EXISTING POND; AT THE NORTHWEST CORNER OF THE PROPERTY. THEREFORE, THE SITE AS A WHOLE PROVIDES 2,144 CF OF STORAGE VOLUME WHICH EXCEEDS THE REQUIRED 819 CF OF STORAGE.

CONCLUSION:

THE CALCULATED PEAK DISCHARGE FROM THE SITE IS LESS THAN EXISTING CONDITIONS. THE GRADING AND DRAINAGE PLAN AS PRESENTED IS IN CONFORMANCE WITH THE CITY OF ALBUQUERQUE HYDROLOGY REQUIREMENTS. WITH THIS SUBMITTAL WE ARE REQUESTING COA HYDROLOGY BUILDING PERMIT APPROVAL.

20180367 APS - MVES

Basin Data Table

This table is based on page 6-10 of the DPM, Zone: 2

Basin ID	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages A	B	C	D	Q(100yr) (cfs/ac.)	Q(100yr) (CFS)	V(100yr) (inches)	$V_{(100yr\text{-}6hr)}$ (CF)	$V_{(100yr\text{-}10d)}$ (CF)
EXISTING											
EXB-1	10119	0.23	0.0%	0.0%	10.0%	90.0%	*4.21*	*0.98*	*2.20*	*1855*	*2864*
EXB-2	32025	0.74	0.0%	0.0%	5.0%	95.0%	*4.28*	*3.14*	*2.27*	*6045*	*9417*
EXB-3	6259	0.14	0.0%	0.0%	0.0%	100.0%	*4.34*	*0.62*	*2.33*	*1215*	*1909*
EXB-4	1008	0.02	0.0%	80.0%	20.0%	0.0%	*2.50*	*0.06*	*0.85*	*71*	*71*
TOTAL	**49411**	**1.13**	-	-	-	-	-	***4.80***	-	***9186***	***14261***
PROPOSED											
PB-1	14752	0.34	0.0%	0.0%	40.0%	60.0%	*3.82*	*1.30*	*1.81*	*2225*	*3206*
PB-2	4470	0.10	0.0%	0.0%	0.0%	100.0%	*4.34*	*0.45*	*2.33*	*868*	*1363*
PB-3	4784	0.11	0.0%	0.0%	90.0%	10.0%	*3.18*	*0.35*	*1.16*	*462*	*515*
PB-4	1420	0.03	0.0%	0.0%	0.0%	100.0%	*4.34*	*0.14*	*2.33*	*276*	*433*
PB-5	1280	0.03	0.0%	0.0%	40.0%	60.0%	*3.82*	*0.11*	*1.81*	*193*	*278*
PB-6	3609	0.08	0.0%	0.0%	0.0%	100.0%	*4.34*	*0.36*	*2.33*	*701*	*1101*
PB-7	4342	0.10	0.0%	0.0%	0.0%	100.0%	*4.34*	*0.43*	*2.33*	*843*	*1324*
PB-8	3747	0.09	0.0%	0.0%	10.0%	90.0%	*4.21*	*0.36*	*2.20*	*687*	*1061*
PB-9	888	0.02	0.0%	0.0%	0.0%	100.0%	*4.34*	*0.09*	*2.33*	*172*	*271*
PB-10	10119	0.23	0.0%	0.0%	5.0%	95.0%	*4.28*	*0.99*	*2.27*	*1910*	*2975*
TOTAL	**49411**	**1.13**	-	-	-	-	-	***4.58***	-	***8337***	***12528***

BASIN	SW Quality	V REQUIRED (CF)	V PROVIDED (CF)
PB (1-3,6-8)	Swale	544	1852
PB (4-5,9)	EXG Pond	67	292

NOTE: PB 10 IS UNCAPTURED AND FOLLOWS EXISTING DRAINAGE PATTERN, DISCHARGING DIRECTLY TO CAMPUS BLVD.

DESIGN PLUS LLC
2415 PRINCETON DR. NE, SUITE G-2
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AMIT PATHAK
NEW MEXICO
24892
01.11.2022
REGISTERED PROFESSIONAL ENGINEER

ALBUQUERQUE PUBLIC SCHOOLS
MONTE VISTA ELEMENTARY SCHOOL
CLASSROOM ADDITION
3211 MONTE VISTA BLVD NE
ALBUQUERQUE, NEW MEXICO 87106

DATE: MARCH 2018

REVISIONS

PROJECT NO:

CAD DWG FILE:

DRAWN BY: LS

CHECKED BY:

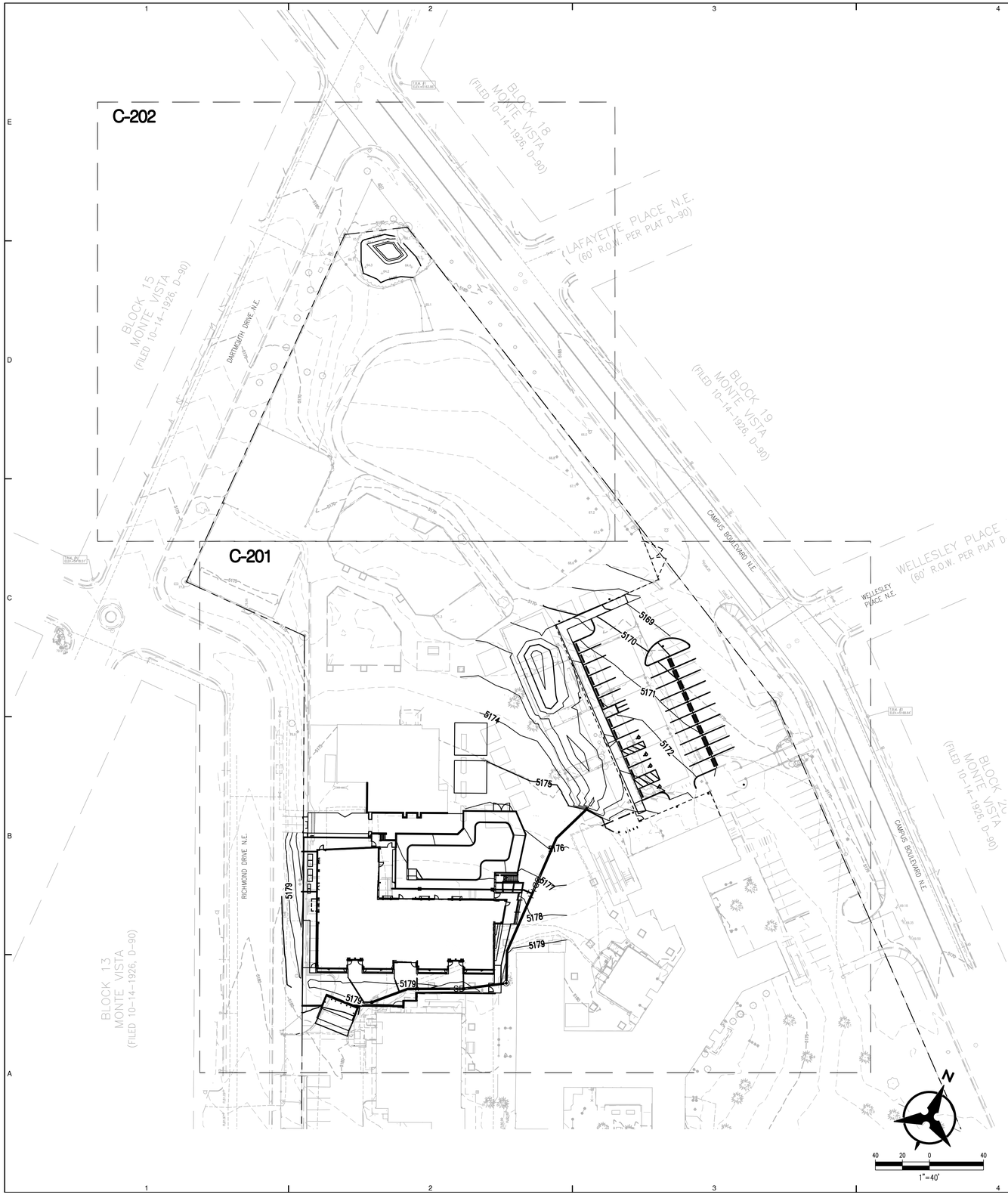
COPYRIGHT: DESIGN PLUS, LLC

SHEET TITLE

DRAINAGE MANAGEMENT PLAN

DMP-00

SHEET ____ OF ____



GRADING SHEET NOTES

A. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, NMAPWA PUBLIC WORKS STANDARDS SHALL APPLY.

B. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.

C. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

D. CONTRACTOR SHALL COORDINATE WITH THE ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY (ABCWUA) FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION THREE (3) WORKING DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.

E. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.

F. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.

G. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

H. 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 RIGHT-OF-WAY.

I. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, DRIVEWAY PERMITS, ETC.).

J. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.

K. THE PROJECT MUST CONFORM WITH THE EROSION AND SEDIMENT REQUIREMENTS OF THE 2003 EPA CONSTRUCTION GENERAL PERMIT OR LOCAL STANDARDS & CODES WHICHEVER IS MORE STRINGENT.

L. CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.

M. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

N. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.

O. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.

P. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE BERNALILLO COUNTY STANDARD SPECIFICATIONS FOR PUBLIC WORKS.

Q. EARTH SLOPES SHALL NOT EXCEED 5 HORIZONTAL TO 1 VERTICAL PER THE GEOTECHNICAL REPORT UNLESS SHOWN OTHERWISE.

R. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

S. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.

T. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.

U. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

V. SIDEWALK CROSS-SLOPES SHALL BE AT A MINIMUM OF 1.0% AND A MAXIMUM OF 2.0%

W. HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

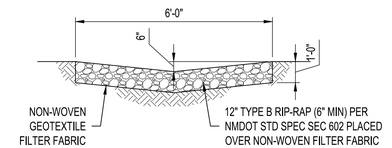
X. ENDS OF ALL STORM DRAIN PIPES, CULVERTS, & CMP END SECTIONS (LARGER THAN 12") SHALL BE COVERED WITH STEEL BARS (TO KEEP CHILDREN OUT) APPROXIMATELY 12" SQUARE. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL. HYDRAULIC INTEGRITY SHALL NOT BE COMPROMISED. BARS TO BE PAINTED TO MATCH BUILDING.

Y. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE BERNALILLO COUNTY TRAFFIC ENGINEERING DEPARTMENT PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.

Z. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

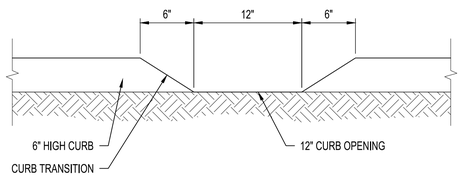
AA. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.

AB. 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. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. 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 OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.



A RIP-RAP SWALE

NTS



B CURB CUT

NTS

LEGEND

- PROPERTY LINE
- LIMITS OF GRADING
- 5025 — EXISTING INDEX CONTOUR
- 5024 — EXISTING INTERMEDIATE CONTOUR
- 5025.25 — EXISTING GROUND SPOT ELEVATION
- 5025 — PROPOSED INDEX CONTOUR
- 5024 — PROPOSED INTERMEDIATE CONTOUR
- 26.75 — PROPOSED FINISHED GRADE SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE, TS=TOP OF SIDEWALK TG=TOP OF GRATE, FGH=FINISH GRADE HIGH, FGL=FINISH GRADE LOW
- PROPOSED CURB & GUTTER
- PROPOSED RETAINING WALL
- S=2.0% — DIRECTION OF FLOW
- WATER BLOCK/GRADE BREAK
- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLETS

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REGISTERED PROFESSIONAL ENGINEER
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ALBUQUERQUE PUBLIC SCHOOLS
MONTE VISTA ELEMENTARY SCHOOL
CLASSROOM ADDITION
3211 MONTE VISTA BLVD NE
ALBUQUERQUE, NEW MEXICO 87106

DATE: MARCH 2018
REVISIONS
PROJECT NO:
CAD DWG FILE:
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CHECKED BY:
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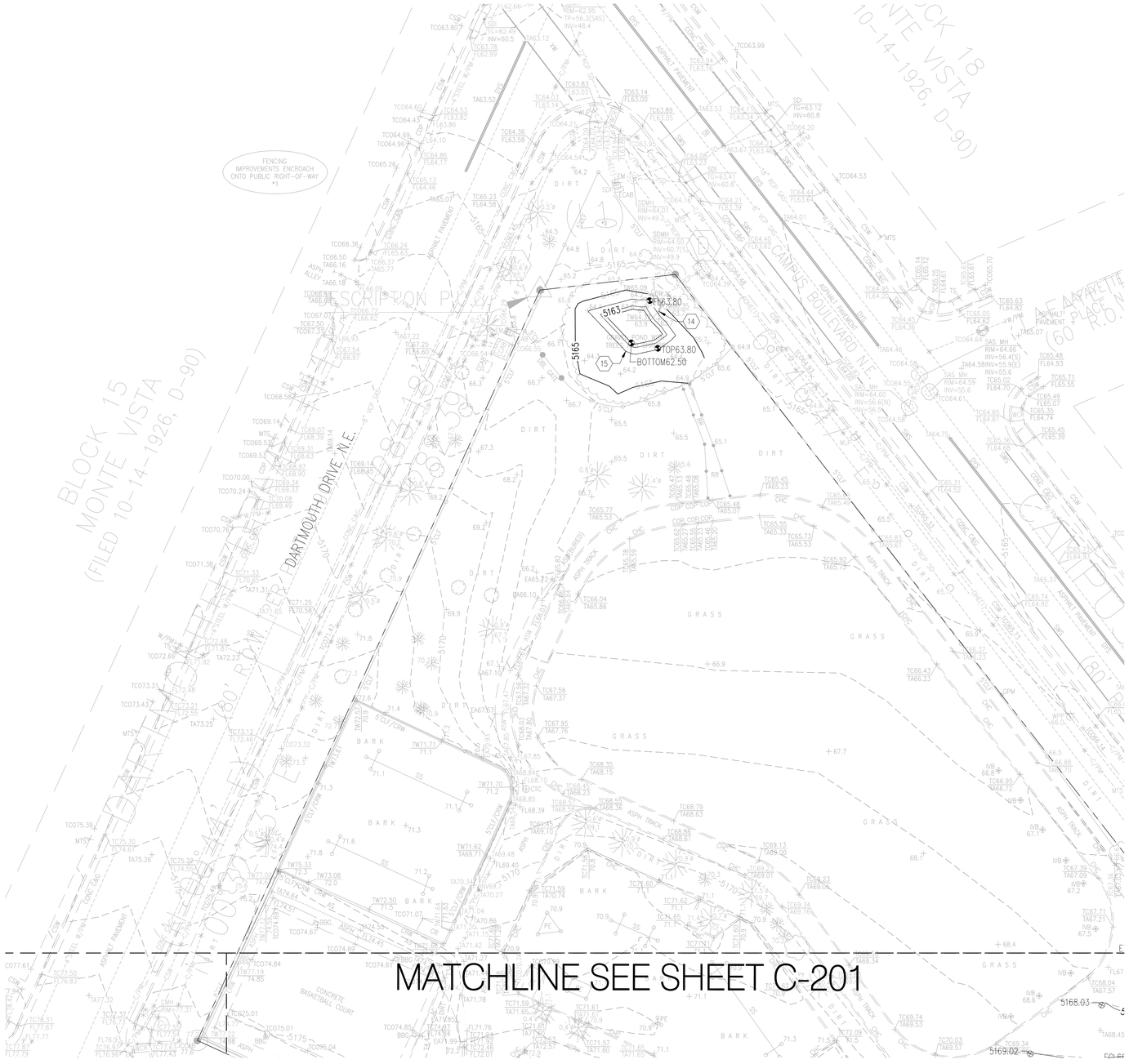
SHEET TITLE
OVERALL GRADING PLAN

C-200
SHEET ____ OF ____



GRADING KEYNOTES*

1. INSTALL HDPE (N12 WT, OR APPROVED EQUAL) STORM DRAIN PIPE, SIZE PER PLANS.
2. INSTALL 11.25° PRE-FABRICATED STORM DRAIN FITTING.
3. INSTALL 22.5° PRE-FABRICATED STORM DRAIN FITTING.
4. INSTALL TYPE C MANHOLE PER COA STD DWG 2201.
5. ROOF DRAIN TO DISCHARGE AT WALL. SEE STRUCTURAL PLANS FOR MORE INFORMATION.
6. MATCH EXISTING ELEVATION.
7. INSTALL RIP RAP SWALE PER DETAIL "A" SHEET C200.
8. SITE RETAINING WALL; SEE STRUCTURAL PLANS FOR DETAILS.
9. INSTALL 12" H20 TRAFFIC RATED DRAIN INLET.
10. INSTALL 12" NYOPLAST DOME DRAIN INLET.
11. EARTHEN SWALE. SEE LANDSCAPE PLANS FOR MORE INFORMATION.
12. INSTALL STORM DRAIN END SECTION (SIZE PER PLAN).
13. INSTALL STORM DRAIN TO WITHIN 5' OF BUILDING. SEE PLUMBING PLANS FOR CONTINUATION.
14. EXISTING CONCRETE END SECTION TO REMAIN.
15. EXCAVATE POND 1.3' BELOW PIPE INVERT ELEVATION AT 3:1 SIDESLOPE.
16. INSTALL PRE-FABRICATED TEE STORM DRAIN FITTING, SIZE PER PLANS.
17. INSTALL CURB CUT PER DETAIL "B" SHEET C200.
18. INSTALL SIDEWALK CULVERT PER COA STD DWG 2236.
19. INSTALL NEW MAINTENANCE ACCESS GATE. SEE LANDSCAPE PLANS FOR DETAILS.

* - NOT ALL KEYNOTED USED ON THIS SHEET

NOTE
HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

NOTE
ENDS OF ALL STORM DRAIN PIPES, CULVERTS, & CMP END SECTIONS (LARGER THAN 12") SHALL BE COVERED WITH STEEL BARS (TO KEEP CHILDREN OUT) APPROXIMATELY 12" SQUARE. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL. HYDRAULIC INTEGRITY SHALL NOT BE COMPROMISED. BARS TO BE PAINTED TO MATCH BUILDING.

NOTE
SIDEWALK CROSS-SLOPES SHALL BE AT A MINIMUM OF 1.0% AND A MAXIMUM OF 2.0%

LEGEND

- PROPERTY LINE
- LIMITS OF GRADING
- 5025 — EXISTING INDEX CONTOUR
- 5024 — EXISTING INTERMEDIATE CONTOUR
- 5025.25 — EXISTING GROUND SPOT ELEVATION
- 5025 — PROPOSED INDEX CONTOUR
- 5024 — PROPOSED INTERMEDIATE CONTOUR
- 26.75 — PROPOSED FINISHED GRADE SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE, TS=TOP OF SIDEWALK TG=TOP OF GRATE, FGH=FINISH GRADE HIGH, FGL=FINISH GRADE LOW
- PROPOSED CURB & GUTTER
- PROPOSED RETAINING WALL
- S=2.0% — DIRECTION OF FLOW
- WATER BLOCK/GRADE BREAK
- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLETS

N

20 10 0 20
SCALE: 1"=20'

DESIGN PLUS LLC
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www.designplusabq.com

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NEW MEXICO
24892
REGISTERED
01.11.2022
PROFESSIONAL ENGINEER

ALBUQUERQUE PUBLIC SCHOOLS
MONTE VISTA ELEMENTARY SCHOOL
CLASSROOM ADDITION
3211 MONTE VISTA BLVD NE
ALBUQUERQUE, NEW MEXICO 87106

DATE: MARCH 2018
REVISIONS

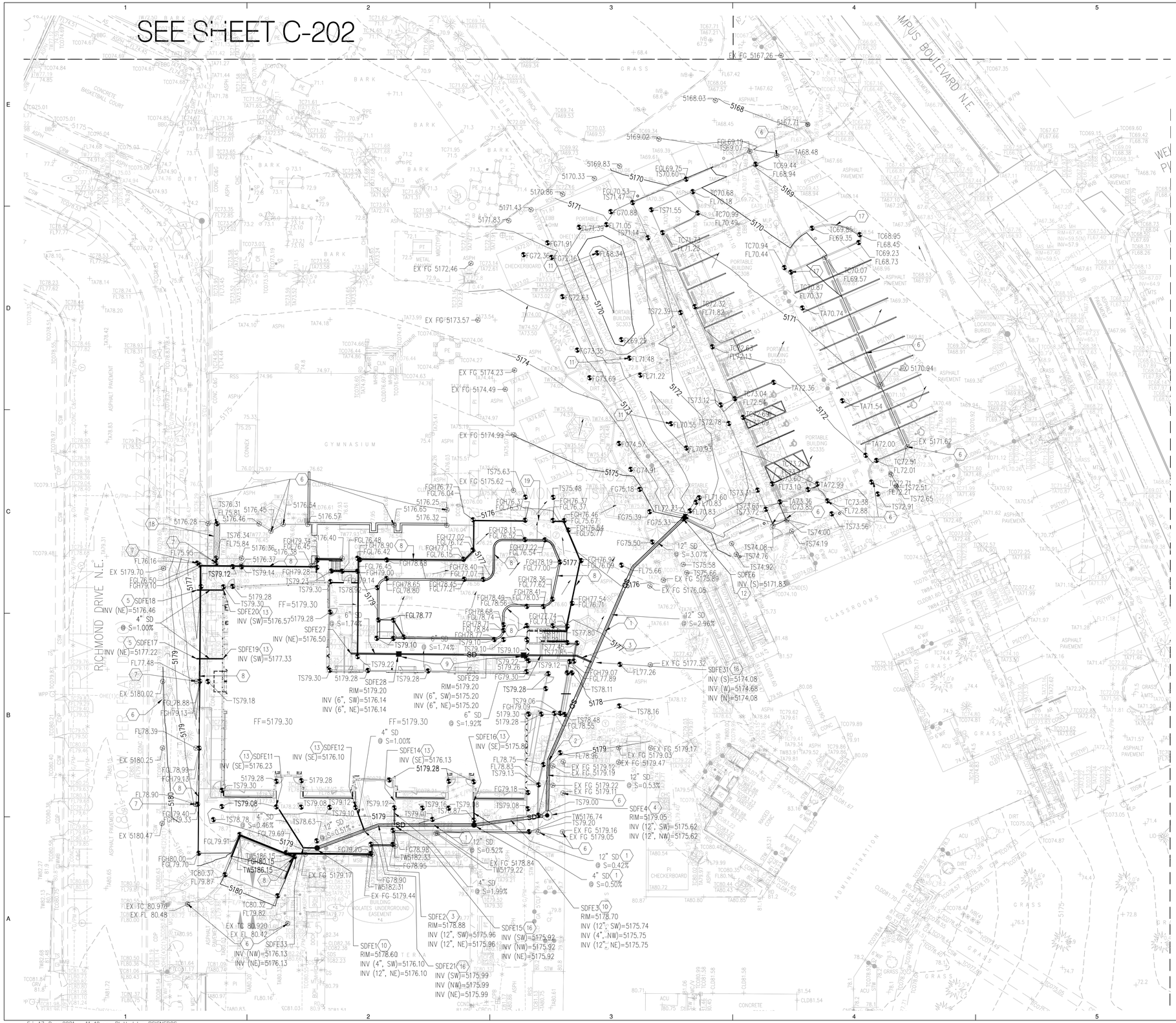
PROJECT NO:
CAD DWG FILE:
DRAWN BY: LS
CHECKED BY:

SHEET TITLE

GRADING PLAN NORTH

C-202

SHEET ___ OF ___



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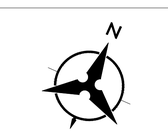

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AMIT PATHAK NEW MEXICO 24862 REGISTERED PROFESSIONAL ENGINEER 09.17.2022

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3211 MONTE VISTA BLVD NE
ALBUQUERQUE, NEW MEXICO 87106

DATE: MARCH 2018

REVISIONS

PROJECT NO:

CAD DWG FILE:

DRAWN BY: LS

CHECKED BY:

SHEET TITLE

GRADING PLAN SOUTH

C-201

SHEET ___ OF ___

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