

CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

September 21, 2017

Jeffrey Mulbery, PE
Bohannon Huston, Inc.
7500 Jefferson St NE
Albuquerque, NM 87109

**RE: International School at Mesa Del Sol – Phase 8
Grading Plan
Stamp Date: 9/18/17
Hydrology File: R16DA3009**

Dear Mr. Mulbery:

Based upon the information provided in your resubmittal received 9/20/17, the Grading Plan is approved for Foundation Permit and Grading Permit.

PO Box 1293

Please attach a copy of this approved plan in the construction sets when submitting for a building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

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

NM 87103

Sincerely,

Reneé C. Brissette

www.cabq.gov

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



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: International School at Mesa Del Sol - Phase 008 **Building Permit #:** _____ **City Drainage #:** R-16-Z
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: Portion of Tract P, Mesa Del Sol Innovation Park II
City Address: 2660 Eastman Crossing SE, Albuquerque, NM 87105

Engineering Firm: Bohannon Huston Inc. **Contact:** Matt Satches
Address: 7500 Jefferson St. NE Albuquerque NM 87109
Phone#: 823-1000 **Fax#:** _____ **E-mail:** msatches@gmail.com

Owner: Internation School at Mesa Del Sol **Contact:** Joel Loes
Address: 2660 Eastman Crossing SE, Albuquerque, NM 87105
Phone#: 217-8880 **Fax#:** _____ **E-mail:** _____

Architect: Dekker/Perich/Sabatini **Contact:** John Dillander
Address: 7601 Jefferson St. NE Albuquerque NM 87109
Phone#: 761-9700 **Fax#:** _____ **E-mail:** _____

Other Contact: _____ **Contact:** _____
Address: _____
Phone#: _____ **Fax#:** _____ **E-mail:** _____

Check all that Apply:

DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

☐ ENGINEER/ ARCHITECT CERTIFICATION
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

CHECK 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
☒ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☐ PAVING PERMIT APPROVAL
☐ GRADING/ PAD CERTIFICATION
☐ WORK ORDER APPROVAL
☐ CLOMR/LOMR
☐ PRE-DESIGN MEETING
☐ OTHER (SPECIFY) _____

DATE SUBMITTED: 9-19-2017 **By:** Matt Satches

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

September 19, 2017

Ms. Renee Brissette, P.E.
Senior Engineer
Planning Department
City of Albuquerque
600 2nd St NW
Albuquerque, NM 87102

Re: International School at Mesa Del Sol – Phase 8, R16DA3009 Hydrology Resubmittal

Dear Ms. Brissette:

Enclosed for your review is a copy of the Revised Grading Plan for the above referenced project. The revisions are based on comments that you provided in your letter dated September 6, 2017. Below is a brief description of how the comments were addressed:

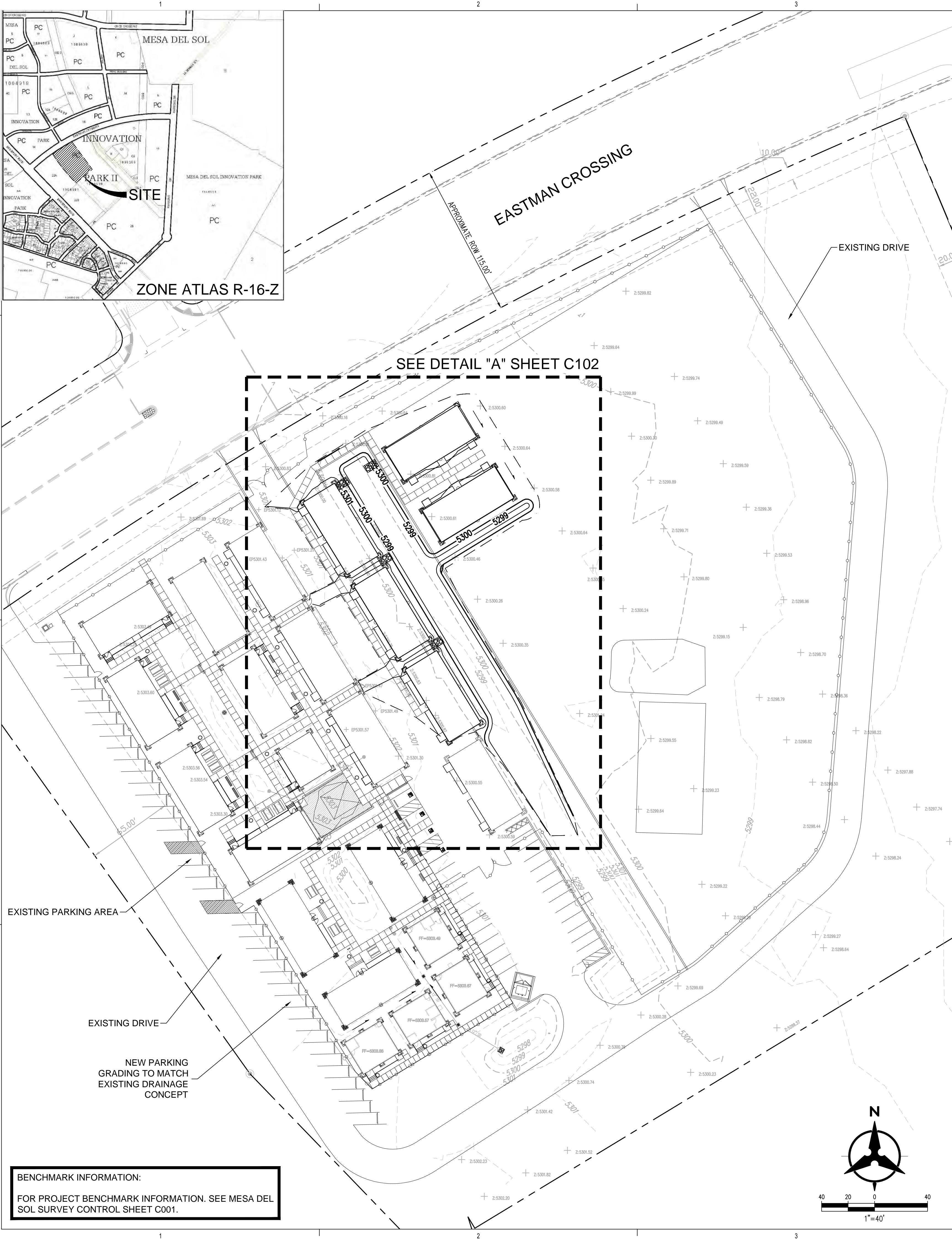
1. Phase 008 was added to Project Titleblock.
2. Vicinity Map (Zone Atlas R-16) is now provided on Sheet C-101.
3. The site is not located within a FEMA Designated Floodplain (Map #35001C0555) and the drainage narrative is noted as such.
4. The Master Mesa Del Sol Project Control sheet has been provided within this plan set as Sheet-001.
5. The drainage narrative is now updated to reflect suggested language.
6. Hydrology Calculations for the disturbed area are provided.

With this submittal, we are requesting Hydrology Foundation and Grading Permit Approval. If you have any questions or require further information, please feel free to contact me.

Sincerely,



Matthew Satches, E.I.
Engineer Intern
Community Development & Planning



GRADING SHEET NOTES

- EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- 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 CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).
- EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
- IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
- THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.
- 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.
- PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.
- ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.
- VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

DRAINAGE MANAGEMENT

WITH THE ADDITION OF THESE PORTABLES THE REQUIRED 2 YR - 24 POND VOLUME INCREASES TO 6,319 CF. THE NEW 2 YR - 24 HOUR PROVIDED POND VOLUME IS 12,300 CF. THE EXISTING DRAINAGE MANAGEMENT PLAN WITH ENGINEER'S STAMP DATE 7-18-2012 (COA HYDROLOGY FILE NUMBER R16/DA3009) REMAINS UNCHANGED. SEE BELOW FOR MORE INFORMATION:

EXISTING DMP (STAMP DATE 7-18-2012):

- VOLUME REQUIRED = 5,249 CF

DISTURBED AREA:

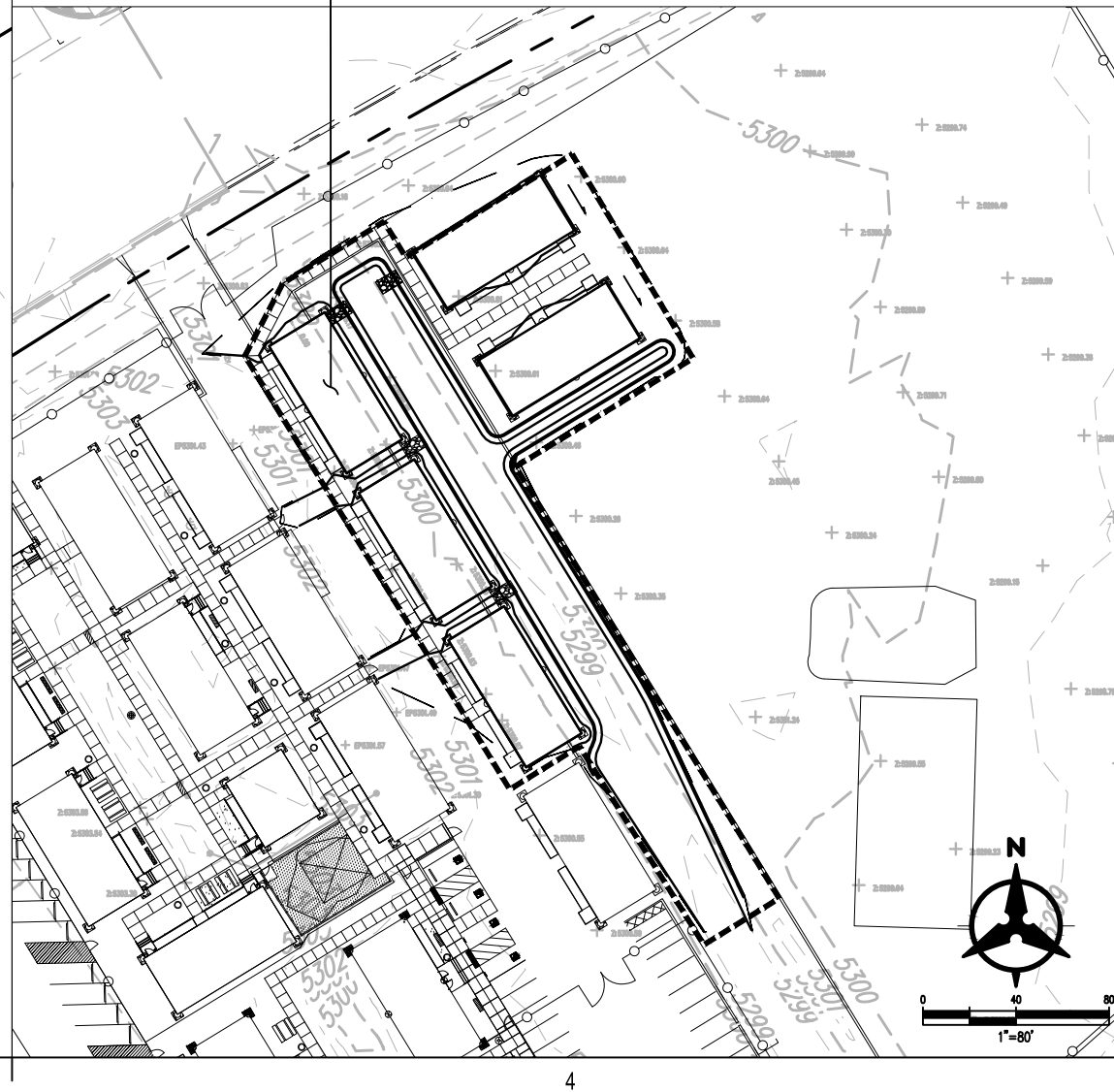
- VOLUME REQUIRED = 1,070 CF

PROPOSED CONDITIONS:

- TOTAL VOLUME REQUIRED = 6,319 CF
- TOTAL VOLUME PROVIDED = 12,300 CF

THIS SITE IS NOT LOCATED WITHIN A FEMA DESIGNATED FLOODPLAN (FIRM MAP #35001C0555).

PROPOSED BASIN AREA = 30,400 SF
LAND TREATMENT A = 0.00%
LAND TREATMENT B = 0.00%
LAND TREATMENT C = 70.00%
LAND TREATMENT D = 30.00%
PROPOSED BASIN 2YR-24 HR VOLUME = 1,070 CF



GENERAL SHEET NOTES

- 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, CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS SHALL APPLY.
- 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.
- 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.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).
- 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.
- THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- 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.
- 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.
- THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.

GRADING LEGEND

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

**DEKKER
PERICH
SABATINI**

7601 JEFFERSON NE, SUITE 100
ALBUQUERQUE, NM 87109

505.761.9700 / DPSDESIGN.ORG

ARCHITECT

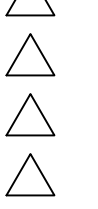
ENGINEER



PROJECT

**INTERNATIONAL SCHOOL PHASE 008
CONCEPTUAL- SITE MASTER PLAN**
2660 EASTMAN CROSSING S.E.
ALBUQUERQUE, NM 87105

REVISIONS



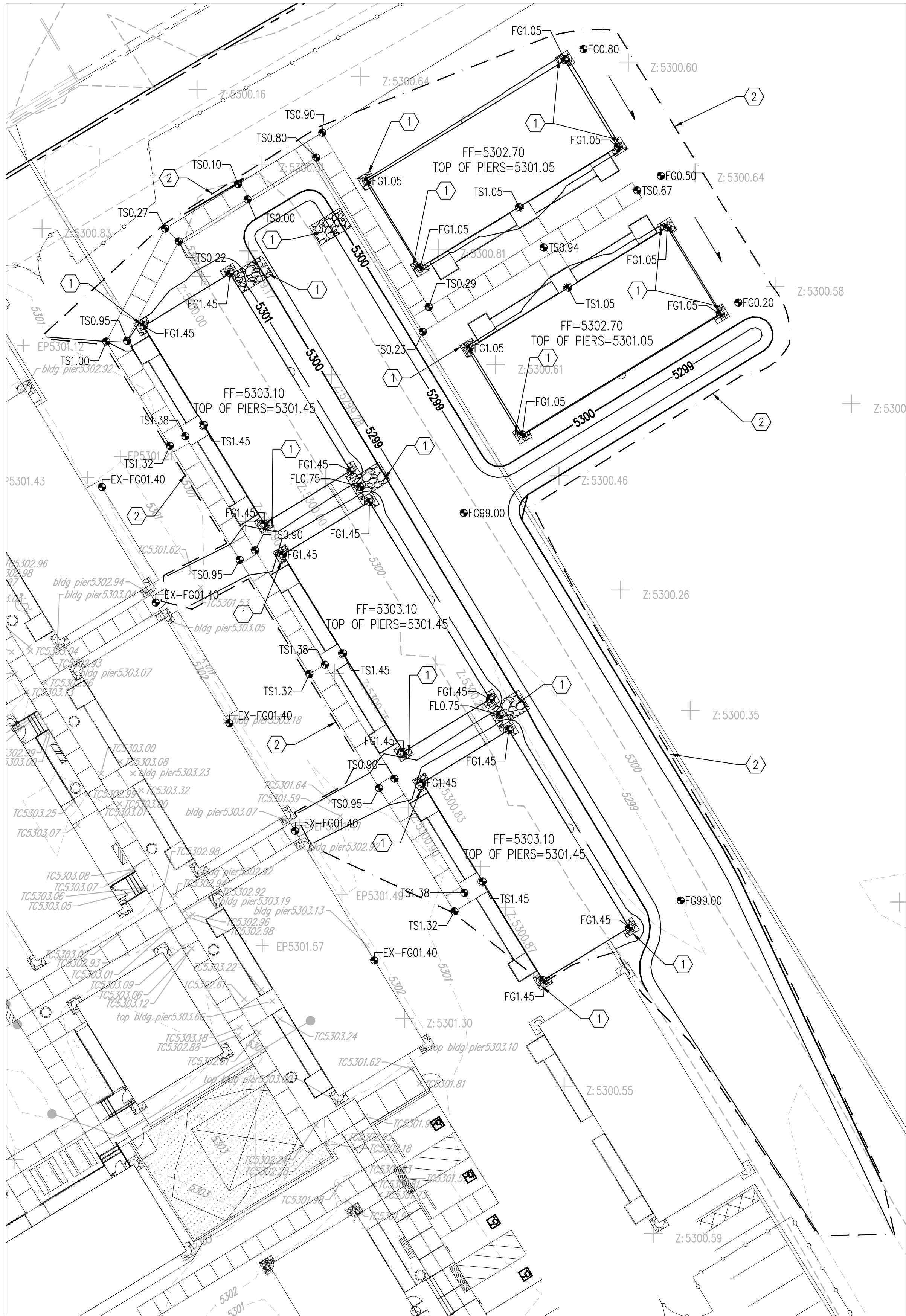
DRAWN BY	MHS
REVIEWED BY	JLM
DATE	09/18/2017
PROJECT NO.	09-0042.008
DRAWING NAME	

OVERALL GRADING PLAN

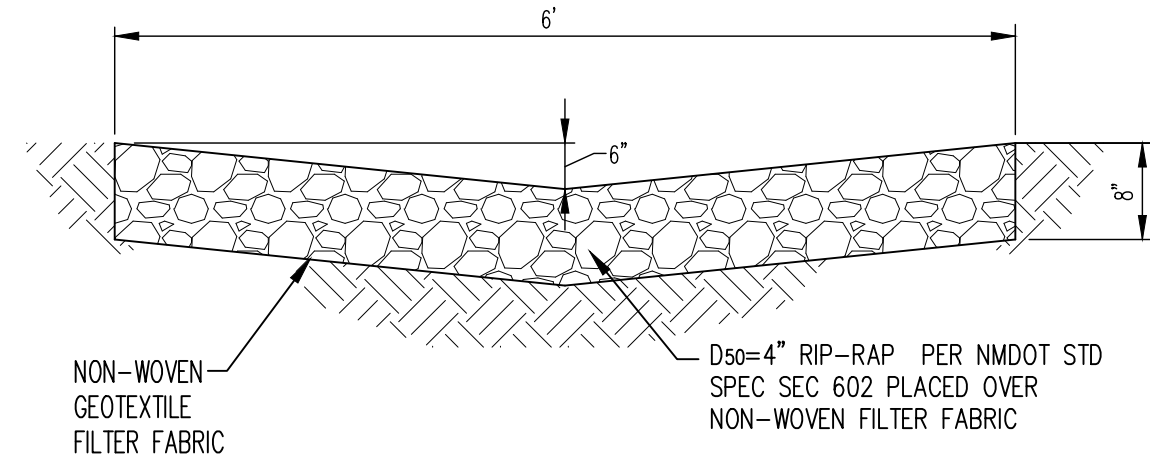
SHEET NO.

C-101

p:\20130091\CDP\Plans\General\Phase 008\20130091GP02 Phase 008.dwg
Tue, 19-Sep-2017 - 3:35pm, Plotted by: MSATCHES



A PORTABLES
SCALE: 1" = 20'



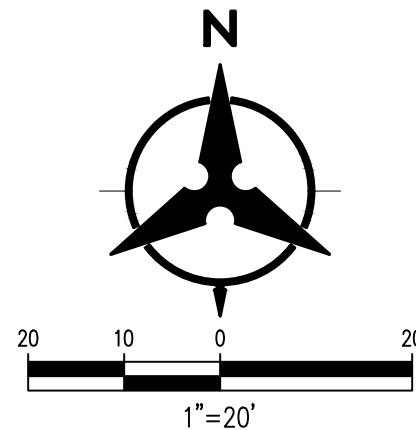
D4 RIP-RAP SWALE DETAIL
N.T.S.

GRADING KEYED NOTES

1. INSTALL RIP RAP SWALE AT ROOF DRAIN DOWN SPOUTS AND DRAINAGE CONCENTRATION POINTS PER "D4" DETAIL, THIS SHEET .
2. MATCH EXISTING GRADE.
3. REMOVE AND REUSE EXISTING RIP RAP.

GRADING LEGEND

---	PROPERTY LINE	---	PROPOSED CURB & GUTTER
---	PROJECT LIMITS OF GRADING	---	DIRECTION OF FLOW
---	EXISTING INDEX CONTOUR	---	WATER BLOCK/GRADE BREAK
---	EXISTING INTERMEDIATE CONTOUR	---	PROPOSED STORM DRAIN LINE
---	EXISTING GROUND SPOT ELEVATION	---	PROPOSED STORM DRAIN MANHOLE
---	PROPOSED INDEX CONTOUR	---	PROPOSED STORM DRAIN INLETS
---	PROPOSED INTERMEDIATE CONTOUR	---	PROPOSED RETAINING WALL
---	PROPOSED SPOT ELEVATION	---	RIP RAP EROSION PROTECTION
---	TC=TOP OF CURB, FL=FLOW LINE, TS=TOP OF SIDEWALK, TG=TOP OF GRATE, FGH=FINISH GROUND HIGH, FGL=FINISH GROUND LOW		



Bohannon & Huston
www.bhinc.com 800.877.5332

ARCHITECTURE / DESIGN / INSPIRATION

**DEKKER
PERICH
SABATINI**

7601 JEFFERSON NE, SUITE 100
ALBUQUERQUE, NM 87109

505.761.9700 / DPSDESIGN.ORG

ARCHITECT

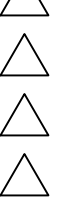
ENGINEER



PROJECT

**INTERNATIONAL SCHOOL PHASE 008
CONCEPTUAL- SITE MASTER PLAN**
2660 EASTMAN CROSSING S.E.
ALBUQUERQUE, NM 87105

REVISIONS



DRAWN BY MHS

REVIEWED BY JLM

DATE 09/18/2017

PROJECT NO. 09-0042.008

DRAWING NAME

GRADING PLAN

SHEET NO.

C-102

2 N 14
N 1467769.41
E 1522504.39
EL 4975.90

5 Q14
N 1460471.38
E 1521388.16
EL 4981.16

1 Q16
N 1460181.21
E 1529613.83
EL 5072.82

3 Q16
N 1457546.80
E 1534025.98
EL 5310.39

1 R16
N 1453939.35
E 1533242.62
EL 5291.45

2 R17
N 1452403.95
E 1539953.62
EL 5295.22

1 Q18
N 1459488.33
E 1544495.03
EL 5325.04

2 Q17
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E 1538247.23
EL 5308.68

CP35
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E 1533877.15

BASE
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E 1523417.52

RTCM
N 1454476.04
E 1523886.37
EL 5339.97

4 R15
N 1451693.40
E 15266E 15.48
EL 5316.68

5 R15
N 1452649.49
E 1529579.45
EL 5306.67

1 S15
N 1445156.66
E 1526595.38
EL 5331.84

2 T17
N 1445269.19
E 1535969.08
EL 5285.36

CP2
N 1449159.26
E 1537357.02

CLUB AZ
N 1436773.31
E 1525084.76
EL 5317.15

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BHI JOB NO. _070292