CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director

Mayor Timothy M. Keller

December 31, 2019

Verlyn Miller, P.E.
Miller Engineering Consultants, Inc
3500 Comanche NE Bldg. F
Albuquerque, NM 87107

RE: Evangel Christian Center
4501 Montgomery NE
Grading and Drainage Plan
Engineer's Stamp Date: 12/13/19
Hydrology File: F17D007

Dear Mr. Miller:

Based upon the information provided in your submittal received 12/19/2019, the Grading & Drainage Plan is approved for Building Permit and Grading 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 (Dough Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

Also as a reminder, please provide a Drainage Covenant for the proposed stormwater quality pond per Chapter 17 of the DPM prior to Permanent Release of Occupancy. Please submit this on the 4th floor of Plaza de Sol. A $25 fee will be required.

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

Sincerely,

Renée C. Brissette

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

MILLER ENGINEERING CONSULTANTS
Engineers • Planners

LETTER OF TRANSMITTAL

TO COA
Planning Department
Development & Building Services
Division – Design Review
600 2nd Street NW
Albuquerque, NM 87102

DATE 12/19/19	Project No.
ATTENTION: Hydrology Dept.	
RE: Evangel Church Parking	

Transmitted herein are the attached documents (noted below):

COPIES	DATE	NO.	DESCRIPTION
1			COA Application for Building Permit
2			Grading & Drainage Plans Set
1			Email of COA electronic copy
1			PDF electronic copy sent to COA
1			Transmittal Letter

THESE ARE TRANSMITTED as checked below:

☒ For Approval ☐ For Your Use ☐ As Requested ☐ For Review & Comment

☐ Other:

REMARKS: Project Engineer: Verlyn Miller

Copy Sent To: VA
MEC File

SIGNED:

3500 Comanche Road NE, Building F · Albuquerque, NM 87107-4546
Phone 505-888-7500 · Fax 505-888-3800 · www.mecnm.com

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Evangel Christian Academy Parking Building Permit #: _____ Hydrology File #: _____

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: TR N REDIVISION OF A PORT OF TR 100A MONTGOMERY HEIGHTS ADDN EXC S WLY PORTION OUT TO R/W CONT 3.9651 AC

City Address: 4501 Montgomery NE, Albuquerque, New Mexico 87109

Applicant: Evangel Christian Center Contact: _____

Address: 4501 Montgomery NE, Albuquerque, New Mexico 87109

Phone#: 505-883-1300 Fax#: 505-883-1229 E-mail: _____

Other Contact: Miller Engineering Consultants, Inc. Contact: Verlyn Miller

Address: 3500 Comanche NE, Bldg. F, Albuquerque, NM 87107

Phone#: 505-888-7500 Fax#: 505-888-3800 E-mail: vmiller@mecnm.com

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

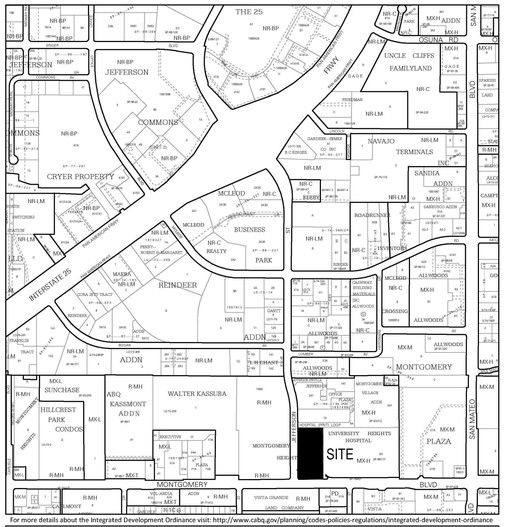
____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
____ SITE PLAN FOR BLDG. PERMIT APPROVAL
____ FINAL PLAT APPROVAL

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

DATE SUBMITTED: 12-19-19 By: _____

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

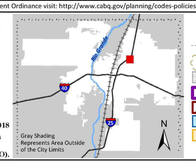
FEE PAID: _____



For more details about the Integrated Development Ordinance visit: http://www.cabq.gov/planning/codes-policies-regulations/integrated-development-ordinance

IDO Zone Atlas
May 2018

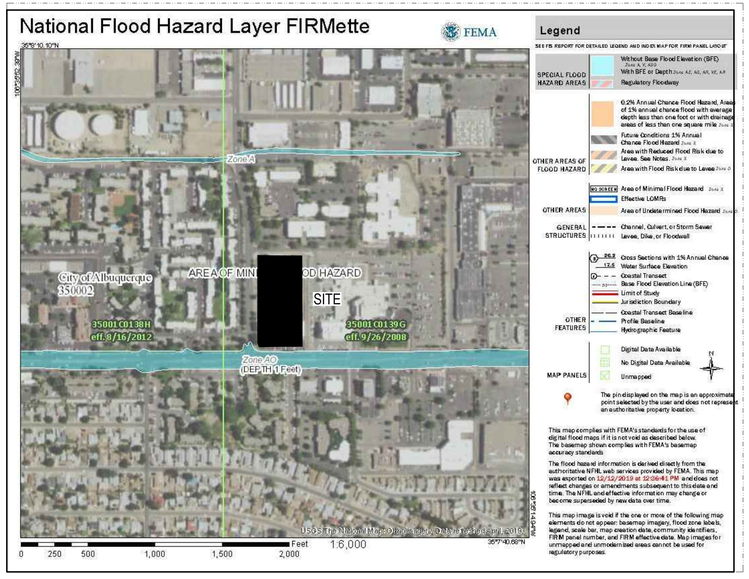
IDO Zoning information as of May 17, 2018
The Zone Districts and Overlay Zones are established by the Integrated Development Ordinance (IDO).



Zone Atlas Page:
F-17-Z

Easement
Escarpment
Petroglyph National Monument
Areas Outside of City Limits
Airport Protection Overlay (APO) Zone
Character Protection Overlay (CPO) Zone
Historic Protection Overlay (HPO) Zone
View Protection Overlay (VPO) Zone
0 250 500 1,000 Feet

C1 VICINITY MAP
ZONE ATLAS MAP F-17-Z



A1 FLOOD ZONE MAP
FLOOD ZONE MAP: 35001C0139G

SITE LOCATION

The site is located on Hospital Loop NW and can be accessed from Montgomery going east on Jefferson to Hospital Loop (see vicinity map).

EXISTING CONDITIONS

The current site is estimated at 0.40 acres and is partially developed with an existing dirt area and concrete basketball court. The terrain is flat and slopes mildly from east to west. There is an existing parking lot located east of the site and an existing building located west of the site.

PROPOSED CONDITIONS

The proposed project would consist of a new asphalt-paved parking lot. The parking lot will have two rows of parking and one two-way drive lane. A drainage swale will be placed along the centerline of the drive lane to promote positive drainage north to Hospital Loop Road. Runoff from the parking lot will enter a proposed first flush pond as required by ordinance. Overflow from the first flush pond will drain through a proposed private sidewalk culvert located on Hospital Loop.

CONCLUSIONS

When developed as indicated on the grading and drainage plan, the increased runoff from the site is estimated at 0.54 cfs, and 1350 cf during the 100-year event. The first flush pond volume required for the project estimated at 493 cf. The proposed first flush pond is designed to accommodate 543 cf, which is well above the anticipated first flush volume for the proposed project. Overflow from the first flush pond will drain through a single 24" wide sidewalk culvert located on Hospital Loop.

N

HARDIN

FIRST FLUSH CALCULATIONS

VFF = (0.34 IN * 17,424 SF)/12
VFF = 493 CF

VOLUME PROVIDED = 543 CF

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
2. CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OF EXISTING UTILITIES.
4. ALL EMBANKMENTS SHALL BE PLACED AND COMPACTED IN LIFTS OF MAXIMUM OF 8". THE EMBANKMENTS SHALL BE WETTED AND COMPACTED TO 95% OPTIMUM DENSITY PER ASTM D1557 AND 95% UNDER ALL STRUCTURES INCLUDING DRIVEWAYS AND PARKING LOTS.
5. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.
6. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
7. THE PROPERTY IS LOCATED IN ZONE X (500 YEAR) DESIGNATING AREAS DETERMINED TO BE OUTSIDE THE 100-YEAR FLOOD PLANE ACCORDING TO THE FLOOD INSURANCE RATE MAP, ALBUQUERQUE, NEW MEXICO AND UNINCORPORATED AREAS PER MAP NO 35001C 03271.
8. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE STORM DRAINAGE REGULATIONS. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE "GRADING AND DRAINAGE DESIGN REQUIREMENTS AND POLICIES FOR LAND DEVELOPMENT."
9. THE OWNER, CONTRACTOR AND/OR BUILDER SHALL COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
10. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE AND REASONABLE MEASURES TO PREVENT SEDIMENT OR POLLUTANT LADEN STORM WATER FROM EXITING THE SITE DURING CONSTRUCTION. STORM WATER MAY BE DISCHARGED IN A MANNER, WHICH COMPLIES WITH THE APPROVED GRADING AND DRAINAGE PLAN.
11. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO PREVENT THE MOVEMENT OF CONSTRUCTION RELATED SEDIMENT, DUST, MUD, POLLUTANTS, DEBRIS, WASTE, ETC FROM THE SITE BY WIND, STORM FLOW OR ANY OTHER METHOD EXCLUDING THE INTENTIONAL, LEGAL TRANSPORTATION OF SAME IN A MANNER ACCEPTABLE BY THE CITY.
12. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE AREAS SHOWN ON THE GRADING AND DRAINAGE PLAN.
13. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE PLAN.
14. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%, ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5.0%, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 15:1.
15. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.
16. THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
17. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS (UPDATE 8, AMENDMENT 1)
18. ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.

Worksheet for Broad Crested Weir - 1 SIDEWALK CULVERT

Project Description		
Flow Element:	Broad Crested Weir	
Solve For:	Discharge	
Input Data		
Headwater Elevation:	69.85	ft
Crest Elevation:	69.35	ft
Tailwater Elevation:	69.50	ft
Crest Surface Type:	Paved	
Crest Breadth:	5.00	ft
Crest Length:	2.00	ft
Results		
Discharge:	2.13 > 2cfs ∴ O.K.	ft³/s
Headwater Height Above Crest:	0.50	ft
Tailwater Height Above Crest:	0.15	ft
Weir Coefficient:	3.01	US
Submergence Factor:	1.00	
Adjusted Weir Coefficient:	3.01	US
Flow Area:	1.00	ft²
Velocity:	2.13	ft/s
Wetted Perimeter:	3.00	ft
Top Width:	2.00	ft

Worksheet for Broad Crested Weir - 1 CURB CUT

Project Description		
Flow Element:	Broad Crested Weir	
Solve For:	Discharge	
Input Data		
Headwater Elevation:	70.00	ft
Crest Elevation:	69.50	ft
Tailwater Elevation:	69.50	ft
Crest Surface Type:	Paved	
Crest Breadth:	5.00	ft
Crest Length:	3.00	ft
Results		
Discharge:	3.19 > 2cfs ∴ O.K.	ft³/s
Headwater Height Above Crest:	0.50	ft
Tailwater Height Above Crest:	0.00	ft
Weir Coefficient:	3.01	US
Submergence Factor:	1.00	
Adjusted Weir Coefficient:	3.01	US
Flow Area:	1.50	ft²
Velocity:	2.13	ft/s
Wetted Perimeter:	4.00	ft
Top Width:	3.00	ft

DRAINAGE DATA

HYDROLOGY

Precipitation Zone 3 - 100-year Storm P(360) = 2.6 in P(1440) = 3.1 in

Basin	Basin Area (Ac)	Land Treatment Factors A (Acres)	B	C	D	Ew (in)	V(100-6) (af)	V(100-24) (af)	Q(100) (cfs)
Existing Conditions									
Site	0.40	0.00	0.00	0.34	0.06	1.45	0.048	0.051	1.47
Total	**0.40**								**1.47**
Proposed Conditions									
Site	0.40	0.00	0.00	0.00	0.40	2.36	0.079	0.095	2.01
Total	**0.40**								**2.01**

Pond Rating Table
Pond #1

Pond Rating Table		Spillway Crest = 69.35	
Side Slope	2:1		
Depth	Area	Volume	Cum Volume
(ft)	(sq ft)	(cubic fet)	(cubic feet)
67.25	196	0	0
68.25	256	226	226
69.35	320	317	543
Pond Invert		67.25	
Spillway Crest		69.35	
WSE (First Flush)		69.20	
WSE (100-year)		69.35	

BASIN A

MILLER ENGINEERING CONSULTANTS
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BLDG F
ALBUQUERQUE, NM 87107
(505)888-7500
(505)888-3600 (FAX)

DESIGNED	MEC	JOB #	E-19-055
DRAWN	MEC	FILE	
CHECKED	VAM	DATE	12-12-19

VERLYN A. MILLER
NEW MEXICO
14507
REGISTERED PROFESSIONAL ENGINEER
12/19/19
ENGINEERS STAMP

NEW MEXICO
BERNALILLO COUNTY
EVANGEL CHRISTIAN ACADEMY
ALBUQUERQUE, NEW MEXICO
HYDROLOGY
RTC. LLC

REVISION DESCRIPTION
DATE
MARK

SHEET
C-100

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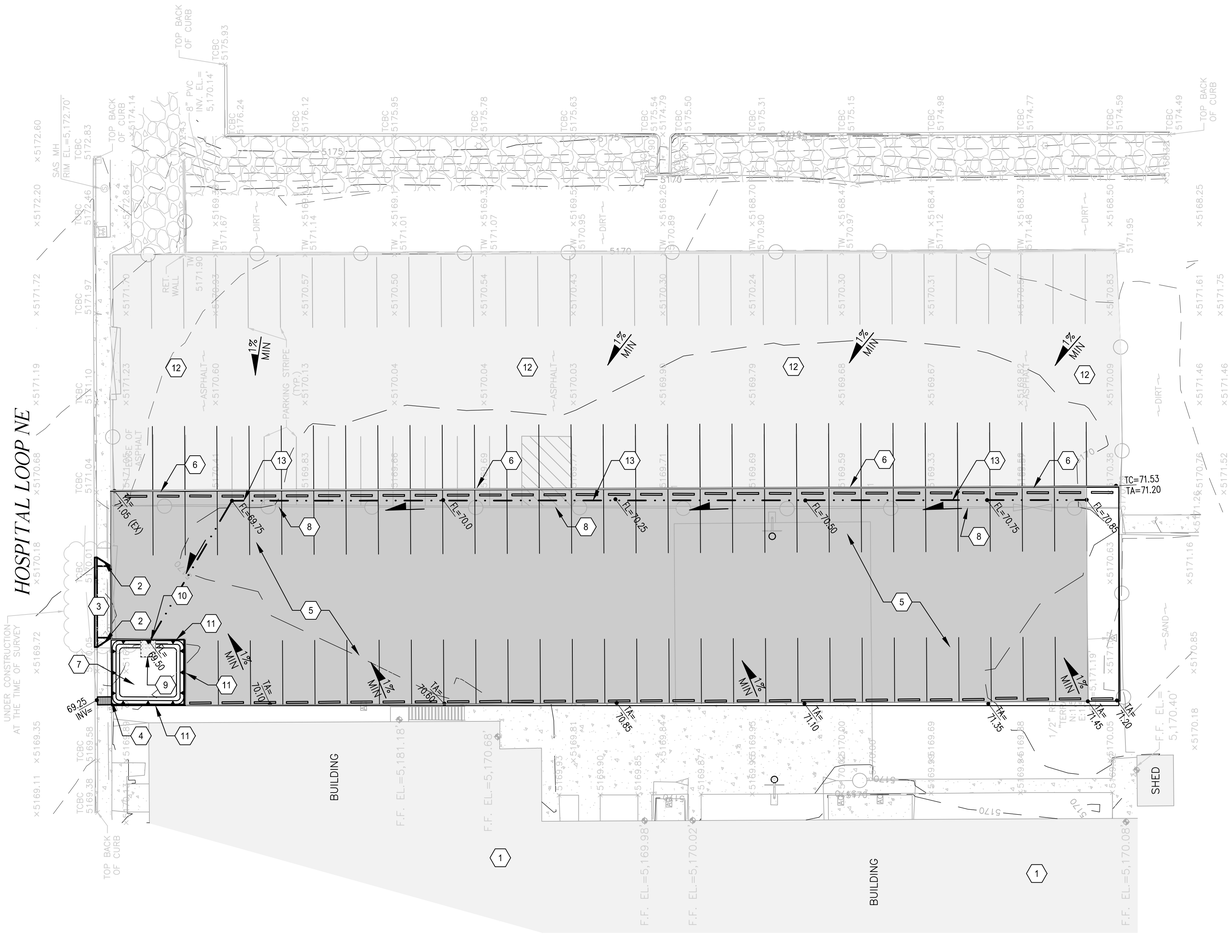
KEYED NOTES:

1. EXISTING BUILDING.
2. CONTRACTOR SHALL SAWCUT EXISTING SIDEWALK AND CURB AND GUTTER TO A CLEAN STRAIGHT EDGE. REMOVE AND DISPOSE OF EXISTING CONCRETE. MATCH EXISTING TOP OF CONCRETE PAVING WITH CONCRETE SIDEWALK AND CURB AND GUTTER.
3. NEW CONCRETE DRIVE PAD, SEE DETAIL SHEET C–501.
4. NEW 24" SINGLE SIDEWALK CULVERT.
   INV = 69.25 (OUT)(FIELD VERIFY)
   INV = 69.35 (IN), SEE SHEET C–501 FOR DETAILS.
5. NEW HOT MIX ASPHALT PAVING. SEE SHEET C–501 FOR PAVING SECTION.
6. CONTRACTOR SHALL SAWCUT EXISTING ASPHALT TO A CLEAN STRAIGHT EDGE AND PLACE NEW CONCRETE HEADER CURB. SEE DETAIL SHEET C–501.
7. WATER HARVEST AREA. SEE DETAIL SHEET C–501.
   VOLUME = 543
   INV = 67.25
8. REMOVE AND DISPOSE EXISTING FENCE.
9. NEW RIP–RAP RUNDOWN, SEE DETAIL SHEET C–501.
10. NEW 3' CURB CUT.
11. NEW HEADER CURB, SEE DETAIL SHEET C–501.
12. EXISTING PARKING LOT TO BE RECONSTRUCTED AND OVERLAYED AS NECESSARY TO PROVIDE POSITIVE DRAINAGE (1% MIN. SLOPE) TO NEW ASPHALT SWALE ELEVATIONS.
13. NEW ASPHALT SWALE, S=0.5% MINIMUM.

LEGEND:

•38.00 FG	PROPOSED SPOT ELEVATIONS (FINISHED GRADE)
•MATCH (95.19)	MATCH EXISTING ELEVATIONS
TCON	TOP OF CONCRETE
FL	FLOW LINE, CURB
INV	INVERT
FG	FINISH GRADE
TBC	TOP OF BASE COURSE
TC	TOP OF CURB
TG	TOP OF GRADE
TA	TOP OF ASPHALT
	FLOW ARROW

	GRADE BREAK–HIGH POINT
	SWALE
SD	STORM DRAIN LINE
5895	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
5895	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	FLOOD ZONE X
	FLOOD ZONE A



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DESIGNED	MEC	JOB #	E–19–055
DRAWN	MEC	FILE	
CHECKED	VAM	DATE	12–12–19

VERLYN A. MILLER — NEW MEXICO — 14507 — REGISTERED PROFESSIONAL ENGINEER — 12/12/19

ENGINEERS STAMP

NEW MEXICO

BERNALILLO COUNTY

EVANGLE CHRISTIAN ACADEMY

ALBUQUERQUE, NEW MEXICO

GRADING AND DRAINAGE PLAN
RTC. LLC

MARK	DATE	REVISION DESCRIPTION

SHEET C–101

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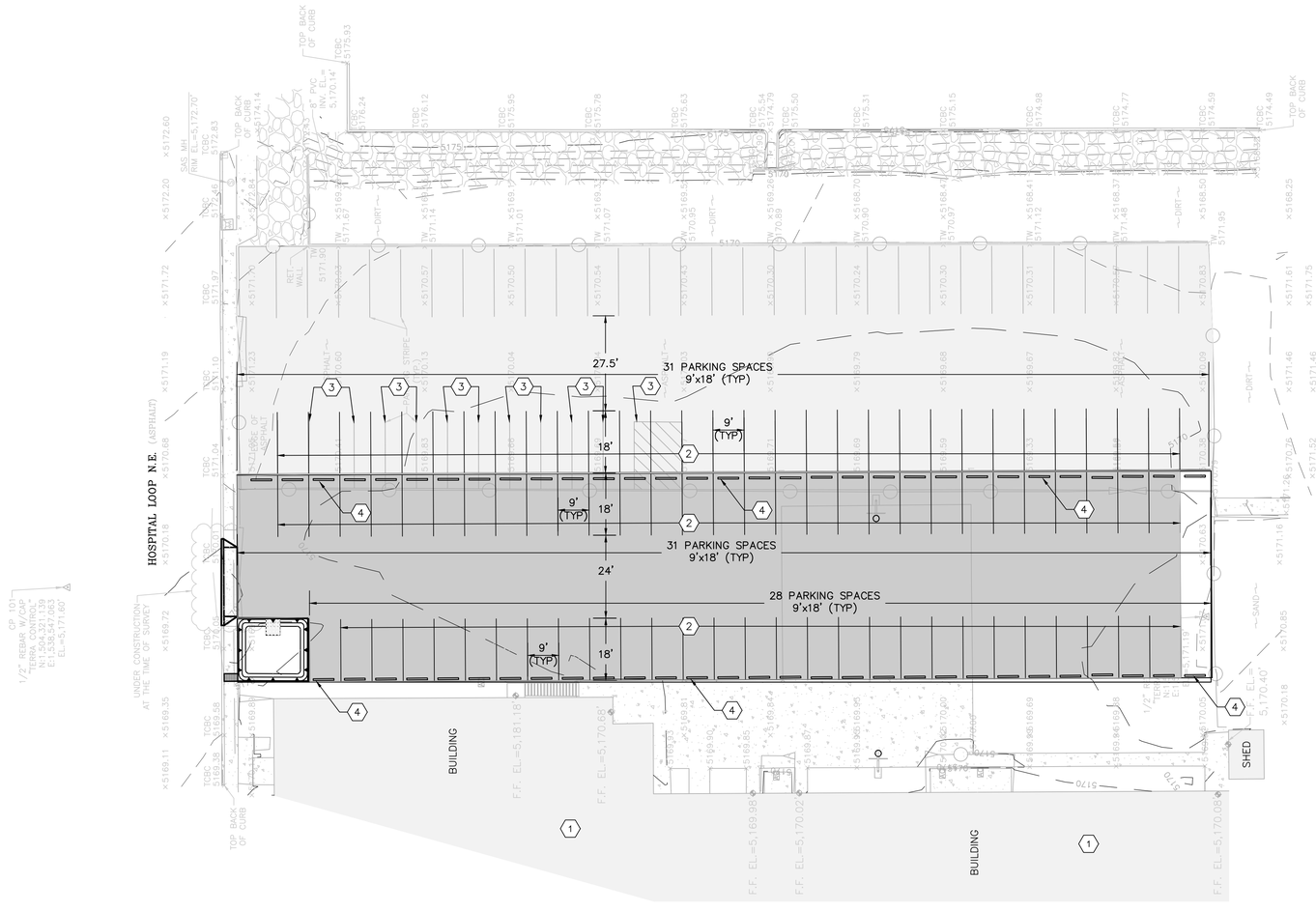

GENERAL NOTES:

1. MEC DID NOT EVALUATE THE PARKING LOT STRIPING PLAN PER COA ZONING REGULATIONS.
2. COMPACT PARKING SPACES SHALL BE LABELED IN ACCORDANCE WITH LATEST MUTCD.
3. AT AREAS OF CUTTING AND TRENCHING AT EXISTING ASPHALT SURFACES FOR NEW WORK, THE CONTRACTOR SHALL PATCH AND REPAIR DAMAGED ASPHALT TO MATCH EXISTING ADJACENT SURFACES.
4. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICT W/ SITE UTILITIES OR FEATURES AND OBTAIN RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL COORDINATE SITE ACCESS AND STAGING AREA WITH OWNER/ENGINEER.
6. CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY TO PROTECT FROM DAMAGING EXISTING UTILITY LINES, WALKS, LANDSCAPING, ETC. WHICH WILL REMAIN AS PART OF THE FINAL SYSTEM. EXTRA CARE MUST BE GIVEN TO PRESERVING EXISTING IRRIGATION LINES AND LANDSCAPING. CONTRACTOR SHALL REPAIR AND/OR RESTORE THESE ITEMS AS REQUIRED TO PRE-CONSTRUCTION CONDITION AT THEIR OWN EXPENSE.
7. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND PHASING PLAN AND SUBMIT IT TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. THE INTENT OF THESE PLANS SHALL BE TO MAINTAIN ACCESS TO THE PARKING LOT AND MAINTAIN SOME PARKING SPACES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL ACCOMMODATE THE VEHICULAR TRAFFIC ASSOCIATED WITH THE FACILITY AT ALL TIMES AND SHALL COORDINATE WITH THE OWNER OF THE FACILITY AND THE ENGINEER AT ALL TIMES DURING CONSTRUCTION TO ENSURE MINIMAL DISTURBANCE TO THEIR DAILY OPERATIONS.
8. SLOPE PAVEMENT MINIMUM 1%
9. ALL ASPHALT REMOVAL AND REPLACEMENT SHALL BE SAWCUT TO A CLEAN, STRAIGHT EDGE. ALL SAWCUT EDGES SHALL BE PREPARED TO APPLY A TACKCOAT. APPLY TACKCOAT TO ALL SAWCUT PAVEMENT EDGES PRIOR TO ASPHALT REPLACEMENT.
10. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).

KEYED NOTES

1. EXISTING BUILDING TO REMAIN.
2. NEW 4" YELLOW REFLECTIVE STRIPE IN ACCORDANCE WITH LATEST MUTCD.
3. REMOVE EXISTING STRIPING.
4. NEW CONCRETE WHEEL STOP

NORTH

20 10 0 20 30 40
SCALE: 1"=20'
CONTOUR INTERVAL = 1'

MILLER ENGINEERING CONSULTANTS
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3500 COMANCHE NE
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(505)888-3800 (FAX)

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NEW MEXICO
14507
REGISTERED PROFESSIONAL ENGINEER
12/13/19
ENGINEER'S STAMP

NEW MEXICO
BERNALILLO COUNTY

EVANGLE CHRISTIAN ACADEMY

ALBUQUERQUE, NEW MEXICO

STRIPING PLAN
RTC. LLC

MARK	DATE	REVISION DESCRIPTION

SHEET
C-102

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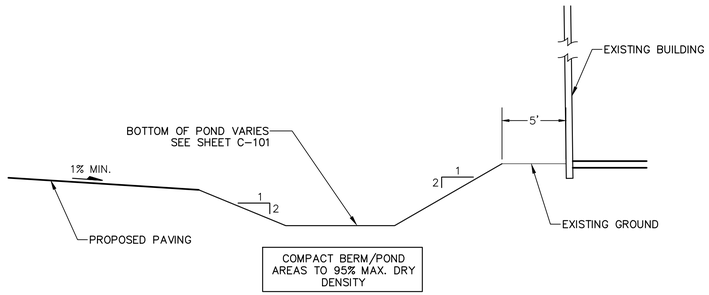

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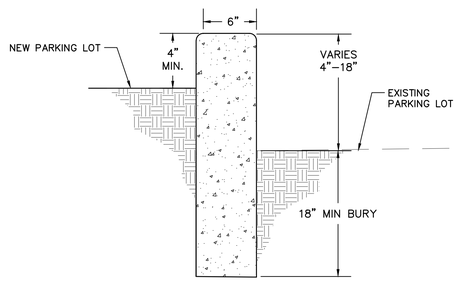

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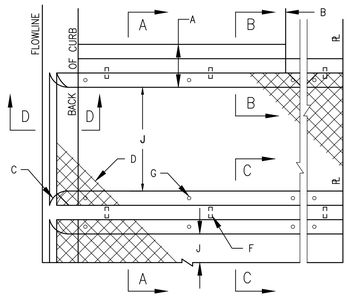
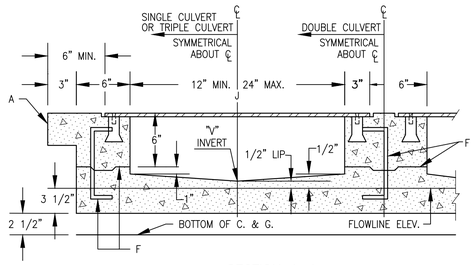
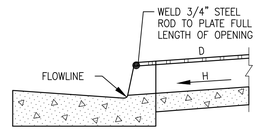


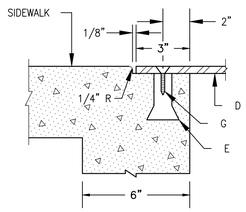
PLAN
SINGLE AND OR MULTIPLE CULVERT



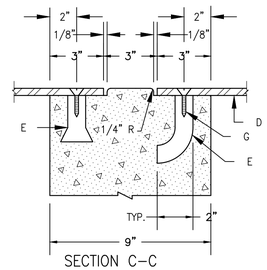
SECTION A–A



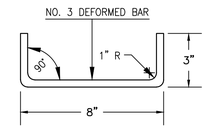
SECTION D–D



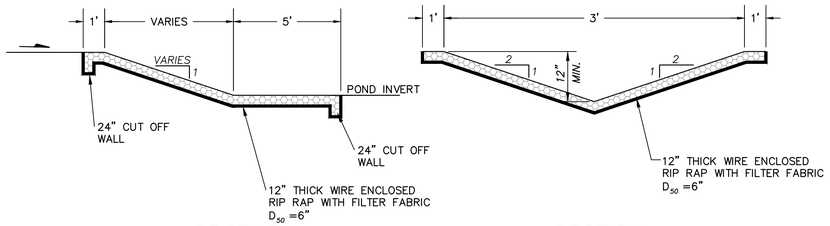
SECTION B–B



SECTION C–C



DOWEL DETAIL



PROFILE SECTION

E1 □ IP □ AP □□ NDO□ N DETAIL

SCALE: NOT TO SCALE

SIDEWALK CULVERT CONSTRUCTION NOTES:

A. *MATCH NEAREST CONTROL JOINT, INSTALL ½" EXPANSION JOINT.*

B. *EDGE OF SIDEWALK OR SETBACK (VARIABLE).*

C. *3" RADIUS (TYPICAL).*

D. *⅜" CHECKERED STEELE PLATE (PRINT PER NOTE 7, ABOVE.*

E. *FOR SECURING PLATE USE 1" x 5" S.S. ROD ANCHOR, "RED HEAD MULTI-SEE II SRM-38 ANCHOR" OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS AT MAX. 24" O.C., A MINIMUM OF 2 PER SIDE AND ONE WITH 6" OF OF EACH END.*

F. *CONSTRUCTION JOINT IS OPTIONAL. IF USED, SPACE DOWELS AT 18" O.C. MAX., 1 ½" MINIMUM FROM FACE OF CONCRETE.*

G. *⅜–16 X 1 ¼" COUNTERSUNK, F.H., STAINLESS STEEL MACHINE SCREW.*

H. *SLOPE ¼" PER FT. MIN*

J. *DRAIN WIDTH PER PLAN (12"., MIN., 24" MAX.).*

GENERAL NOTES:

1. PLACING OF DRAIN THRU EXIST. SIDEWALK AND CURB & GUTTER REQUIRES THAT ENTIRE SIDEWALK AND C & G STONES BE REMOVED AND REPLACED AS DETAILED HEREIN.
2. BOTTOM SLAB OF CULVERT SHALL BE POURED MONOLITHICALLY WITH NEW GUTTER.
3. THE INVERT SHALL BE TOWELED TO PRODUCE A HARD POLISHED SURFACE OF MAX. DENSITY AND SMOOTHNESS. INVERT SHALL BE V-SHAPED TO WITHIN 3" OF OUTLET, THEN WARPED TO PARALLEL FLOWLINE AT OUTLET, UNLESS OTHERWISE SHOWN.
4. ALL EXPOSED CONC. SURFACE SHALL MATCH GRADE, COLOR, FINISH AND SCORING OF ADJACENT CURB AND SIDEWALK.
5. SIDEWALK REPLACED DURING CONSTRUCTION SHALL BE POURED MONOLITHICALLY WITH CULVERT WALLS.
6. IF ROD ANCHORS ARE USED, DRILL & TAP FOR F.H. MACHINE SCREW. ATTACH ANCHORS TO PLATE AND SECURE PLATE IN PLACE PRIOR TO POURING OF WALLS.
7. LENGTH OF EACH PLATE SHALL BE SUCH THAT THE WEIGHT WILL NOT EXCEED 300 LBS. AND SHALL BE STRESS RELIEVED AFTER FABRICATION. CLEAN SURFACE OF PLATE AND FRAMING MEMBERS AND PAINT W/ ONE SHOP COAT RED OXIDE AND TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
8. THE CITY WILL NOT ASSUME RESPONSIBILITY FOR MAINTENANCE OF ANY SIDEWALK CULVERT INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.

A□ SIDE□ AL□ C□ LVE□ T DETAIL

SCALE: NOT TO SCALE

MILLER ENGINEERING CONSULTANTS
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3500 COMANCHE NE
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ALBUQUERQUE, NM 87107
(505)888-3200 (FAX)

DESIGNED	MEC	JOB #	E-19-055
DRAWN	MEC	FILE	
CHECKED	VAM	DATE	12-12-19

VERLYN A. MILLER
NEW MEXICO
14507
12/9/19
REGISTERED PROFESSIONAL ENGINEER
ENGINEER'S STAMP

BERNALILLO COUNTY
NEW MEXICO

EVANGLE CHRISTIAN ACADEMY
ALBUQUERQUE, NEW MEXICO

MISCELLANEOUS DETAILS
RTC. LLC

REVISION DESCRIPTION	DATE	MARK

SHEET C-501