

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Interim Director



Mayor Timothy M. Keller

July 18, 2019

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

**RE: St. Therese School
311 Shropshire Place NW
Grading and Drainage Plan
Engineer's Stamp Date: 06/17/19
Hydrology File: G14D092**

Dear Mr. Miller:

Based upon the information provided in your resubmittal received 06/21/2019, the Grading and Drainage Plan is approved for Building Permit.

PO Box 1293

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.

Albuquerque

NM 87103

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 (Curtis Cherne, PE, ccherne@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

www.cabq.gov

Please provide Drainage Covenant per Chapter 17 of the DPM prior to Permanent Release of Occupancy for the retention ponds. Please submit these to the 4th floor of Plaza de Sol. A \$25 fee for each will be required.

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



City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: St. Therese School **Building Permit #:** _____ **Hydrology File #:** _____

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

Legal Description: Map 33 Tract 84B & Tract 91A2

City Address: 311 Shropshire PL. NW, Albuquerque, NM 87107

Applicant: St. Therese Catholic School **Contact:** Donna Illerbrun

Address: 311 Shropshire PL. NW, Albuquerque, NM 87107

Phone#: (505) 344-4479 **Fax#:** _____ **E-mail:** d.illerbrun@stschool.org

Other Contact: Miller Engineering Consultants, Inc. **Contact:** Verlyn A. 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 ☒ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes ☒ No

DEPARTMENT _____ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- _____ ENGINEER/ARCHITECT CERTIFICATION
- _____ PAD CERTIFICATION
- ☒ CONCEPTUAL G & D PLAN
- _____ 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:

- ☒ 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: 6/21/2019 **By:** Quaita Beck

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



LETTER OF TRANSMITTAL

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

DATE 6/21/19	MEC Project No. E-18-050
ATTENTION: Muhanned Adeeb	
RE: St. Therese Catholic School New Multi-Purpose Building	

Transmitted herein are the attached documents (noted below):

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

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: D. Young

Worksheet for Rectangular Weir - 1

Project Description

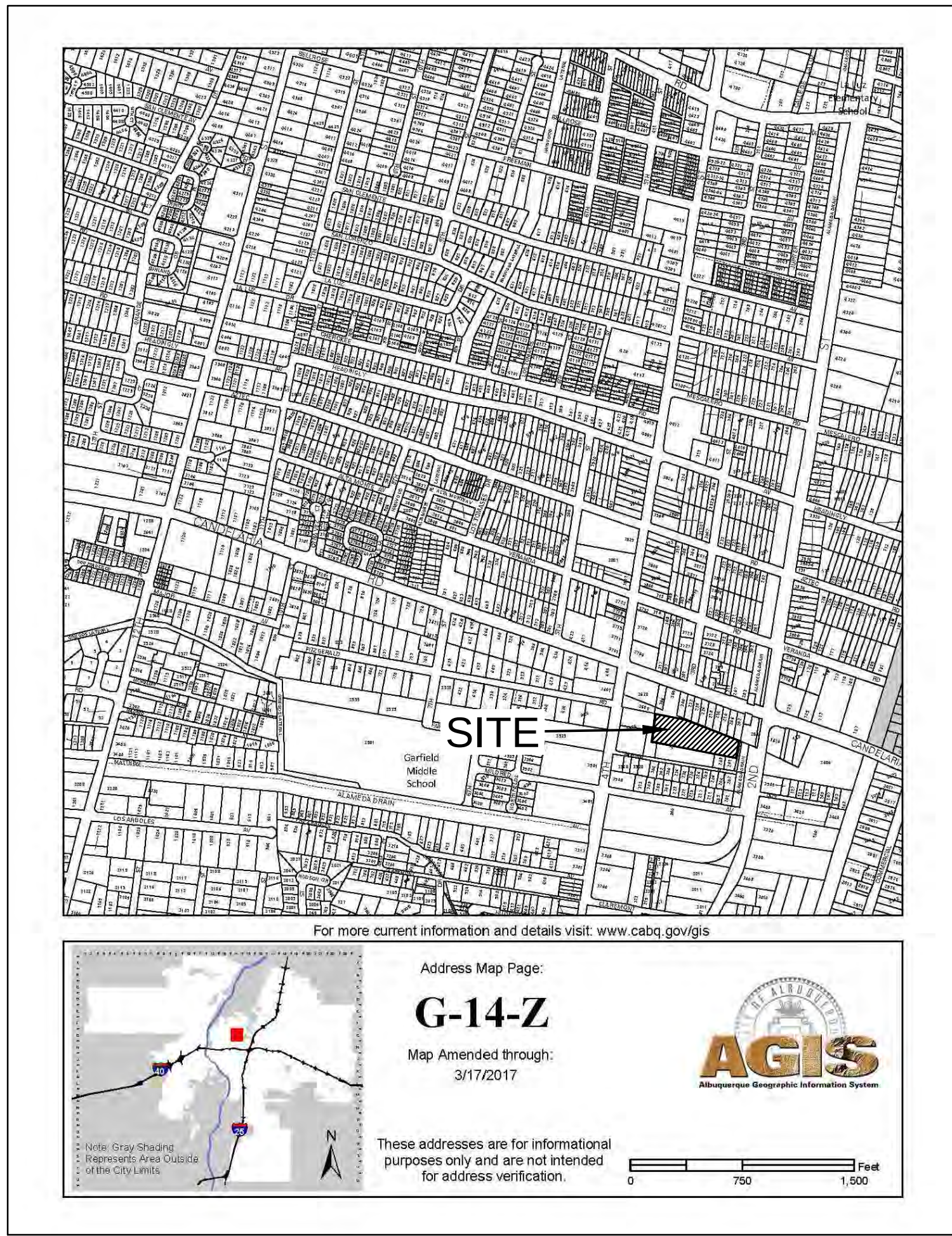
Flow Element:	Rectangular Weir
Friction Method:	Manning Formula
Solve For:	Discharge

Input Data

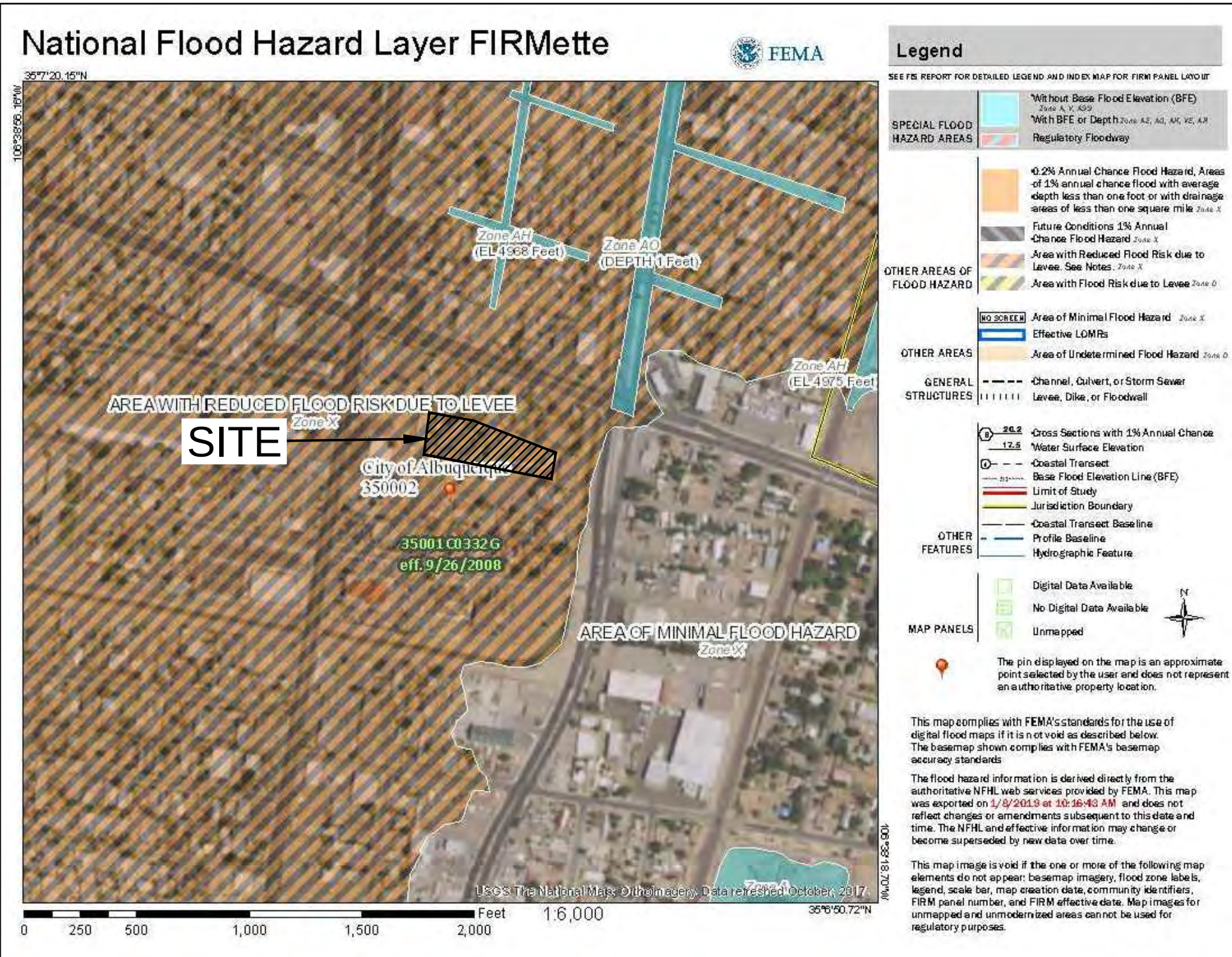
Headwater Elevation:	100.50	ft
Crest Elevation:	100.00	ft
Tailwater Elevation:	100.25	ft
Weir Coefficient:	2.68	US
Crest Length:	2.00	ft
Number of Contractions:	0	

Results

Discharge:	1.60	ft ³ /s
Headwater Height Above Crest:	0.50	ft
Tailwater Height Above Crest:	0.25	ft
Flow Area:	1.00	ft ²
Velocity:	1.60	ft/s
Wetted Perimeter:	3.00	ft
Top Width:	2.00	ft



B1 VICINITY MAP
SCALE: NOT TO SCALE



A1 FLOOD ZONE MAP
FLOOD ZONE MAP: 35001C0332G

SITE LOCATION

THE ST. THERESE CATHOLIC SCHOOL PROPERTY IS LOCATED WITHIN THE CITY OF ALBUQUERQUE, NEW MEXICO AND CAN BE ACCESSED BY TRAVELING WEST ON CANDELARIA BLVD TO 4TH STREET, SOUTH ON 4TH STREET TO SHOPSHIRE, AND LEFT ON SHOPSHIRE ROAD (SEE VICINITY MAP ABOVE).

EXISTING ON SITE CONDITIONS

THE SITE AREA IS APPROXIMATELY 140' X 140' AND IS LOCATED ON THE CAMPUS OF THE ST. THERESE SCHOOL. THE SITE CONSISTS OF 0.45 ACRES AND IS CURRENTLY DEVELOPED WITH LANDSCAPING AND SMALL OUTBUILDINGS. THE SITE GENERALLY SLOPES TO THE SOUTHWEST WITH AN AVERAGE SLOPE OF 1%. THE HYDROLOGY CALCULATIONS FOR EXISTING CONDITIONS CAN BE FOUND ON THIS SHEET.

PROPOSED CONDITIONS

THE PROPOSED PROJECT WILL CONSIST OF A NEW 4680 SF BUILDING WITH ASSOCIATED PATIOS AREAS AND CONCRETE SIDEWALKS (SEE SHEET C-101). THE SITE WILL BE GRADED WITH SWALES AROUND THE PERIMETER OF THE BUILDING TO PROMOTE POSITIVE DRAINAGE AWAY FROM THE NEW BUILDING FOUNDATION. THE PERIMETER SWALES WILL DISCHARGE TO THREE NEW WATER HARVEST AREAS LOCATED ON THE SITE. THE HYDROLOGY CALCULATIONS FOR PROPOSED CONDITIONS ARE LOCATED ON THIS SHEET.

STORM WATER RUNOFF FROM THIS SITE WILL BE MANAGED WITH A SERIES OF WATER HARVEST FEATURES LOCATED ON THE SITE THAT WILL PROVIDE ADEQUATE STORAGE FOR THE FIRST FLUSH AND FOR THE INCREASE IN STORM WATER RUNOFF FROM THE SITE. THE PROPOSED WATER HARVEST PONDS OVERFLOW BACK IN TO THE EXISTING PARKING LOT AREA AND ITS HISTORICAL FLOW PATH BEFORE DISCHARGING INTO SHOPSHIRE ROAD. THE RETENTION VOLUME CALCULATIONS FOR THE WATER HARVEST AREAS ARE CONTAINED ON THIS SHEET.

CONCLUSION

WHEN FULLY DEVELOPED, THE SITE AS INDICATED ON THE SITE DEVELOPMENT PLAN, WILL GENERATE AN INCREASE IN RUNOFF OF 0.23 CFS AND .018 ACRE -FEET DURING THE 100-YEAR, 24 HOUR EVENT. THE HYDROLOGY SUMMARY TABLE ON THIS SHEET CONTAINS A SUMMARY OF EXISTING, PROPOSED, AND INCREASED FLOW RATES AND VOLUMES FOR THE SITE. THE POND VALUE TABLE ON THIS SHEET ALSO DEMONSTRATES THE TOTAL RETENTION VOLUME PROVIDED BY THE THREE WATER HARVEST PONDS. THIS PLAN PROVIDES A TOTAL PROPOSED RETENTION VOLUME OF 0.032 ACRE -FEET OR 1377 CF UNDER FULLY DEVELOPED CONDITIONS.

WATER HARVEST AREA 1 proposed				
Pond Rating Table				
Side Slope				
Elev.	Area	Volume	Cum Volume	
(ft)	(sq ft)	(ac-ft)	(ac-ft)	
68.3	700	0.000	0.000	
68.8	990	422.500	422.500	

WATER HARVEST AREA 2 proposed				
Pond Rating Table				
Side Slope				
Depth	Area	Volume	Cum Volume	
(ft)	(sq ft)	(ac-ft)	(ac-ft)	
67.5	700	0.000	0.000	
68.5	990	845.000	845.000	

WATER HARVEST AREA 3 proposed				
Pond Rating Table				
Side Slope				
Depth	Area	Volume	Cum Volume	
(ft)	(sq ft)	(ac-ft)	(ac-ft)	
68.5	144	0.000	0.000	
69	297	110.250	110.250	

GENERAL NOTES:

- EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS WAS PROVIDED BY SANDIA LAND SURVEYING LLC. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
- ACS STA 6+G15
THE STATION IS LOCATED 2.2 MILES NORTH OF DOWNTOWN ALBUQUERQUE AT THE INTERSECTION OF CANDELARIA ROAD AND THE BNSF RAILROAD TRACKS. TO REACH THE STATION FROM THE INTERSECTION OF CANDELARIA ROAD AND I-25 NE, TRAVEL WEST ON CANDELARIA ROAD 0.8 MILES TO THE EAST SIDE OF THE BNSF RAILROAD TRACKS AND THE STATION ON THE RIGHT. THE STATION MARK IS A CITY OF ALBUQUERQUE SURVEY CONTROL 3" BRASS DISC STAMPED "6-G15 1979" SET IN A TRAFFIC SIGNAL BOX 0.6 FEET BELOW THE SURFACE OF THE GROUND
ELEV. 4975.35 (NAVD 1988)
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
- CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OF EXISTING UTILITIES.
- 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.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- THE SUBJECT PROPERTY IS LOCATED WITHIN 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 0332G.
- 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."
- THE OWNER, CONTRACTOR AND/OR BUILDER SHALL COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.
- THE CONTRACTOR SHALL TAKE ALL APPROPRIATE AND REASONABLE MEASURES TO PREVENT SEDIMENT OR POLLUTANT LADEN STORM WATER FROM EXITING THE SITE DURING CONSTRUCTION. STORMWATER MAY BE DISCHARGED IN A MANNER, WHICH COMPLIES WITH THE APPROVED GRADING AND DRAINAGE PLAN.
- 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.
- THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE AREAS SHOWN AS "SLOPE LIMITS" ON THE GRADING AND DRAINAGE PLAN.
- SEE ARCHITECTURAL DRAWINGS FOR SIDEWALK AND HANDICAPPED RAMPS, DETAILS AROUND THE BUILDING.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS (UPDATE 8, AMENDMENT 1)
- ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.

FIRST FLUSH CALCULATIONS

BASIN A

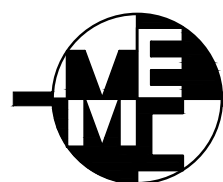
$$VFF = (0.34 \text{ in} * 6,543 \text{ SF}) =$$

$$VFF = 185 \text{ CF}$$

$$\text{VOLUME PROVIDED} = 1377 \text{ CF}$$

Precipitation Zone 2 - 100-year Storm P(360) = 2.33 in P(1440) = 2.75 in

Basin	Basin Area (Ac)	Land Treatment Factors				Ew (in)	V(100-6) (af)	V(100-24) (af)	Q(100) (cfs)	V(100-10 day) (af)
		A	B	C	D					
Existing Conditions										
Site	0.450	0.000	0.000	0.450	0.000	1.130	0.042	0.042	1.413	0.042
Total	0.450							0.042	1.413	0.042
Proposed Conditions										
Site	0.450	0.000	0.000	0.300	0.150	1.46	0.055	0.060	1.647	0.075
Total	0.450							0.060	1.647	0.075



MILLER ENGINEERING CONSULTANTS

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WWW.MECNM.COM

HYDROLOGY REPORT NEW MULTI-PURPOSE BUILDING for ST THERESE CATHOLIC SCHOOL

date: 6-11-19
drawn by: MEC
checked by: VAM
revisions:

C-100

project no. 18-050

VIGIL & ASSOCIATES
ARCHITECTURAL GROUP, P.C.
WWW.VA-ARCHITECTS.COM



T:\Clients\VIGIL & ASSOCIATES\ST THERESE CATHOLIC SCHOOL\Acad\Sheets\C-101_G & D Plan_01-02-19.dwg 7/18/2019 3:11:32 PM. DWG To PDF.pc3

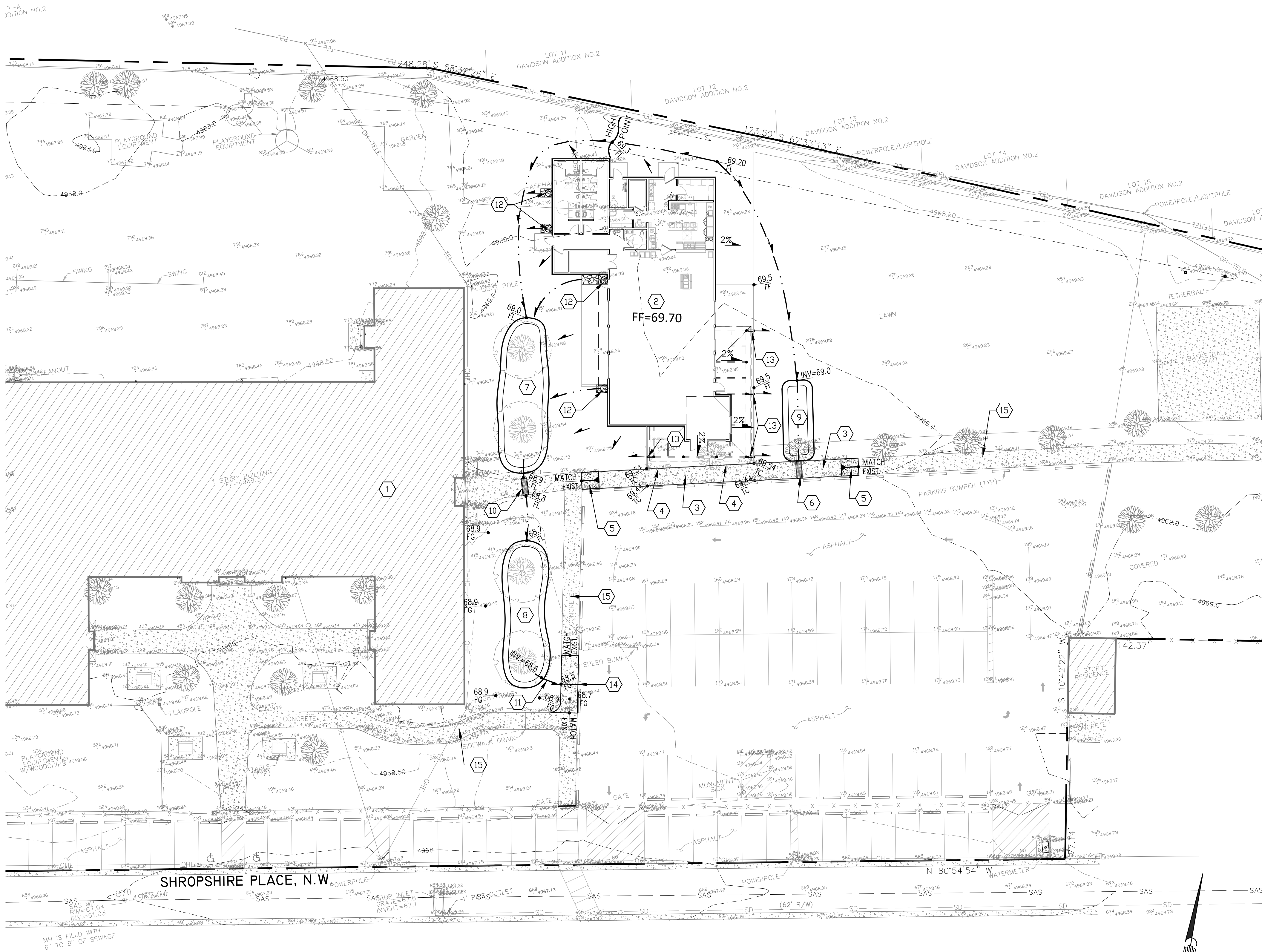
PS&A PROJECT NO. XXX-XXX

A

B

C

D



A1

GRADING AND DRAINAGE PLAN

SCALE: 1"=20'-0"

LEGEND:

38.00	PROPOSED SPOT ELEVATIONS (FINISHED GRADE)		
FG			
MATCH (95.19)	MATCH EXISTING ELEVATIONS		
TCON	TOP OF CONCRETE		
FL	FLOW LINE, CURB		
INV	INVERT		
FG	FINISH GRADE		GRADE BREAK—HIGH POINT
TBC	TOP OF BASE COURSE		SWALE
TC	TOP OF CURB		
TG	TOP OF GRATE		
TA	TOP OF ASPHALT		
FLOW ARROW			
		SD	STORM DRAIN LINE
		5895	PROPOSED MAJOR CONTOUR
		5895	EXISTING MAJOR CONTOUR
			EXISTING MINOR CONTOUR

GRADING AND DRAINAGE NARRATIVE

THE EXISTING PROPERTY FOR ST. THERESE CATHOLIC SCHOOL IS LOCATED AT 311 SHROPSHIRE PL. NW. THE SITE IS ACCESSED FROM EAST BOUND LANE OF SECOND STREET NE. THE SITE CURRENTLY CONSISTS OF A VACANT LOT WITH NO DEVELOPMENT. THE SITE IS BOUND BY CANDELARIA BLVD. ON THE NORTH SIDE, RESIDENTIAL DEVELOPMENT ON THE SOUTH AND NORTH SIDE, AN SECOND STREET ON THE EAST SIDE. THE LAND SLOPES MILDLY FROM THE NORTHEAST TO THE SOUTHWEST CORNER OF THE SITE. THE PROPOSED BUILDING WILL BE CONSTRUCTED NEAR THE NORTH END OF THE SITE WITH AN ASPHALT PARKING LOT LOCATED ON THE SOUTH OF THE PROPOSED BUILDING.

THE PROPOSED GRADING IMPROVEMENTS WILL INCLUDE NEW SIDEWALK WITH CULVERTS AND RUNDOWNS ALLOWING STORMWATER INTO PROPOSED WATER HARVESTING AREAS. THESE WATER HARVESTING AREAS WILL BE USED TO MANAGE THE 90TH PERCENTILE STORM EVENTS (REQUIRED VOLUME = $(0.34 \text{ IN.} \times 41,151 \text{ SF})/12 = 1166 \text{ CF}$). THE PROPOSED WATER HARVEST AREAS VOLUME IS APPROXIMATELY 1200 CUBIC FEET, WHICH IS GREATER THAN THE REQUIRED FIRST FLUSH VOLUME OF 1166 CUBIC FEET. ALL ROOF DRAINAGE AND PROPOSED ASPHALT PARKING AREAS WILL DISCHARGE INTO WATER HARVEST AREAS LOCATED AT THE WEST SIDE OF THE PROJECT SITE.

THE SUBJECT PROPERTY IS NOT LOCATED WITHIN A FEMA DESIGNATED FLOOD ZONE AS PER FEMA MAPS.

KEYED NOTES

- EXISTING BUILDING TO REMAIN.
- PROPOSED BUILDING, SEE ARCHITECTURAL PLANS FOR DETAILS.
- NEW SIDEWALK WITH 6" TURN DOWN EDGE. REFER TO ARCHITECTURAL SHEETS FOR CONTROL JOINT PATTERN DETAILS.
- SAWCUT NEW SIDEWALK TO CLEAN STRAIGHT EDGE AND MATCH WITH NEW CONCRETE.
- NEW HANDICAP RAMP, SEE CITY OF ALBUQUERQUE STANDARD DRAWING 2418. CONTRACTOR TO FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION.
- NEW SINGLE 24" WIDE SIDEWALK CULVERT, SEE SHEET C-501 FOR DETAIL. CONTRACTOR TO FIELD VERIFY EXISTING FLOWLINE INVERT PRIOR TO CONSTRUCTION.
INV (IN) = 69.00
INV (OUT) = 68.94 FIELD VERIFY
- WATER HARVEST FEATURE #1, INV=68.3. SEE SHEET C-501 FOR DETAIL.
- WATER HARVEST FEATURE #2, INV=67.75. SEE SHEET C-501 FOR DETAIL.
- WATER HARVEST FEATURE #3, INV=68.5. SEE SHEET C-501 FOR DETAIL.
- NEW SINGLE 24" WIDE SIDEWALK CULVERT, SEE SHEET C-501 FOR DETAIL. CONTRACTOR TO FIELD VERIFY EXISTING FLOWLINE INVERT PRIOR TO CONSTRUCTION.
INV (IN) = 68.50
INV (OUT) = 68.40 FIELD VERIFY
- OVERFLOW SWALE GRADE TO DRAIN.
- NEW ROOF DRAIN LOCATIONS.
- NEW PORCH DOWNSPOUT LOCATIONS.
- NEW OVERFLOW SECTION OF SIDEWALK. CONTRACTOR TO FIELD VERIFY EXISTING FLOWLINE INVERT ELEVATION IN PARKING LOT PRIOR TO CONSTRUCTION.
- EXISTING SIDEWALK TO REMAIN.

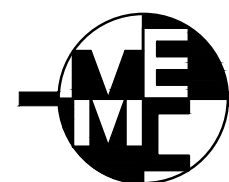
GRADING AND DRAINAGE PLAN NEW MULTI-PURPOSE BUILDING for ST THERESE CATHOLIC SCHOOL

date: 6-11-19
drawn by: MEC
checked by: VAM
revisions:
7-19-19: ADDED SIDEWALK CULVERT WIDTH

C-101

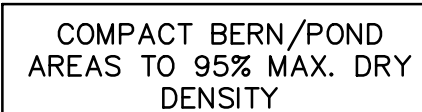
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SCALE: NOT TO SCALE



SCALE: NOT TO SCALE



SCALE: NOT TO SCALE

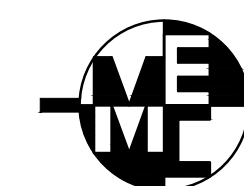


1. PLACING OF DRAIN

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 CURB SHALL BE POURED MONOLITHICALLY WITH NEW GUTTER.
 3. THE INVERT SHALL BE TROWELED 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 CURB 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 (ASHTO M 69).
 8. THE CITY WILL NOT ASSUME RESPONSIBILITY FOR MAINTENANCE OF ANY SIDEWALK CURB INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.

- A. MATCH NEAREST CONTROL JOINT, INSTALL $\frac{1}{2}$ " EXPANSION JOINT.
- B. EDGE OF SIDEWALK OR SETBACK (VARIABLE).
- C. 3" RADII (TYPICAL).
- D. $\frac{3}{4}$ " CHECKERED STEEL PLATE (PRINT PER NOTE 7, ABOVE).
- E. FOR SECURING PLATE USE 1" x 5" S.S. ROD ANCHOR, "RED H MULTI-SEAL" II SRM-38 ANCHOR, OR APPROVED EQUIV. INSTALL MANUFACTURER'S INSTRUCTIONS AT MAX. 24" O.C., A MINIMUM PER SIDE AND ONE WITH 6" OF EACH END.
- F. CONSTRUCTION JOINT IS OPTIONAL. IF USED, SPACE DOWELS AT O.C. MAX., $\frac{1}{2}$ " MINIMUM FROM FACE OF CONCRETE
- G. $6" \times 16 \times 1 \frac{1}{4}"$ COUNTERSUNK, F.H., STAINLESS STEEL MACHINE SCREW.
- H. SLOPE $\frac{1}{4}$ " PER FT. MIN
DRAIN WIDTH PER PLAN (12", MIN., 24" MAX.).

SCALE: NOT TO SCALE



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