ADMINISTRATIVE AMENDMENT

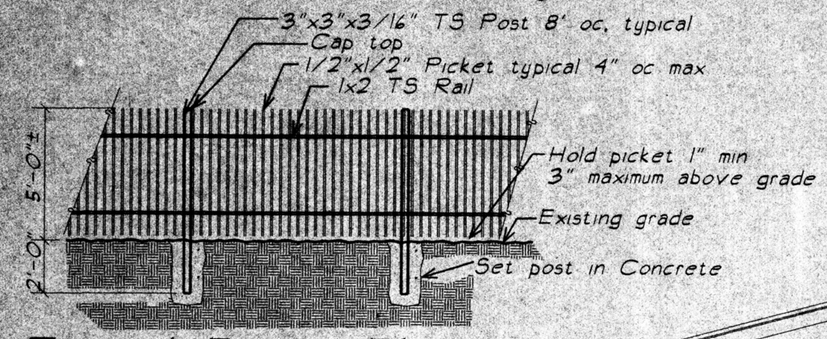
FILE #: SI-2021-00891 **PROJECT #:** PR-2021-005606

Addition of a new 1,641 sq ft modular building (portable) for classroom use.

Digitally signed by James M. Aranda
DN: cn=James M. Aranda, o=City of Albuquerque, ou=Planning Department, email=jmaranda@cabq.gov, c=US
Date: 2021.09.15 09:59:00 -06'00'

9/15/2021

APPROVED BY **DATE**



Typical Fence Elevation

NTS

Notes

All landscapeing shown is existing locations are approximate

All parking shown is existing and will not be effected by the installation of the fence.

All improvements shown are existing and will not be effected by the installation of the fence.

The work indicated on this sheet is limited to the installation of perimeter fencing and gates as indicated on this sheet.

100206B
ADMINISTRATIVE
DEVELOPMENT PLAN AMENDMENT
02.HA
FILE NO. AA- 01003
APPROVED To allow fence & gates
10/29/02
PLANNING DIRECTOR For DATE

Zoning

Gonzales Road

New fence see elevation this sheet. Typical.

25' Gate Sliding

25' Gate Double Sliding

6" Curb typ

Gate to match fence

Existing wood fence on adjacent lots

Existing CB wall below fence on adjacent lots

Existing Easement

25' Road and utility easement indicated on Alamosa Center Plat dated May 1996

Existing (asbuilt) modular building

Curb removed this area for access

Light pole

Existing Asphalt Paving

Light pole

Temporary 7' Easement for drainage. Easement voided by development on the westerly portion of tracts 150 & 151

This area has not been developed

No curb this area

New modular building - Requesting approval as part of this Administrative Amendment.

OUR LADY OF LAVANG CATHOLIC CHURCH

Existing (asbuilt) modular building

Curb removed this area for access

Porch

Existing Church Building

Concrete walk around existing church building

Existing retention pond

No landscaping

Line indicating boundry between Tracts 150 & 151 Atrisco Grant

New fence see elevation this sheet. Typical.

Anchor

Gate to match fence

Access to Alamosa Center

N71°54'00"E

N18°23'00"W

S71°54'00"W

240.0

N18°23'00"W

100.0'

S71°54'00"W

327.92'

Site Plan

Scale 1"=40'

REVISIONS	ENGINEER	ARCHITECT

RSB ARCHITECTS
BOX 2356 SANTA FE, NEW MEXICO 87502 VOICE (505)983- (505)983-2743

Our Lady of Lavang Catholic Church

6800 Gonzales Road SW
Albuquerque, New Mexico

SHEET NO.	C-1 OF 1
PROJECT NO.	02.10
STATUS:	cd
DATE:	June 22, 2002
CHECKED BY:	RSB
DRAWN BY:	rb
02.10\Drawings\Base1.dc5	

FLOOD ZONE MAP

FLOOD ZONE MAP 35001C0329H

DRAINAGE REPORT

SITE LOCATION

The proposed project is located on approximately 3.3-acres of the campus of Mark Armijo Charter school. The overall site is estimated at 6 acres and can be accessed from Gonzales Road SW.

EXISTING CONDITIONS

The overall existing site is estimated at 6 acres. The eastern 2.7 acres is currently partially developed with existing buildings and parking lot areas. There are two existing retention ponds that collect runoff from the eastern portion of this site. The pervious grading and drainage plan completed by Wooten Engineering in 2017 indicates that the two existing retention ponds can retain the 100-year, 10-day event. We have provided Sheet C-101 and C-102 prepared by Wooten Engineering as a part of this submittal for informational purposes only.

Based on the plan prepared by Wooten Engineering the western portion of the site to be developed under this project is called Basin C. For this submittal the site will be called Basin C to be consistent with the previously approved Wooten Plan.

Per the FMEA Panel on this sheet, the site does not lie within a 100-year FEMA floodplain and is not impacted by offsite flows.

PROPOSED CONDITIONS

The proposed project would consist of a mass grading plan for the western portion of the site (Basin C). This phase will include mass grading of the site and the construction of a new retention pond (Pond C). The buildings, parking lots, playfield, and other improvements on the site are all improvement to be constructed in the future. Individual grading and drainage plans will be required for each future phase of development.

Basin C under future fully developed conditions will generate 0.594-acre feet during the 100-year, 10-day event. Pond C will be size to retain 100% of this volume. Pond C will be connected to existing Pond B with a 24" pipe. The existing emergency overflow spillway will be used for any overtopping flows from these ponds.

CONCLUSIONS

When developed as indicated on the grading and drainage plan, the increased runoff from the site is estimated at 4.37 cfs, and 0.232 acre-feet during the 100-year, 24-hour event. The first flush pond volume required for the project estimated at 1975 cf. The proposed retention Pond C has a capacity of 0.720 acre-feet and is capable to retaining 100% of the 100-year, 10-day volume from Basin C.

GENERAL NOTES:

1. EXISTING TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY TERRA LAND SURVEYS, LLC. CORRALES, NEW MEXICO APRIL 2020. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
2. PROJECT BENCHMARK IS A CITY OF ALBUQUERQUE SURVEY BRASS DISC STAMPED "ACS BM 11–K10". TO REACH THE BENCHMARK FROM THE INTERSECTION OF CENTRAL AVENUE AND COORS BLVD. S.W., TRAVEL SOUTH ON COORS BLVD. 0.55 MILES TO THE INTERSECTION WITH GONZALES ROAD S.W. EPOXIED TO TOP OF S.S.E. CONCRETE CURB RETURN OF THE INTERSECTION. ELEVATION = 5,046.07 FEET (NAVD 1988 VERTICAL DATUM)
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
4. CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
5. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260–1990 FOR LOCATION OF EXISTING UTILITIES.
6. 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.
7. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
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 EXTING THE SITE DURING CONSTRUCTION. STORMWATER 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 AS "SLOPE LIMITS" ON THE GRADING AND DRAINAGE PLAN.
13. SEE ARCHITECTURAL DRAWINGS FOR SIDEWALK AND HANDICAPPED RAMPS, DETAILS AROUND THE BUILDING.
14. 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.
15. 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.
16. 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.
17. THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
18. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE 2014 EDITION OF THE NEW MEXICO STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (GREY BOOK).
19. ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.
20. THE CONTRACTOR SHALL SUBMIT A SEED MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO STARTING THE SEEDING ON THE PROJECT. THE SEED MIX DESIGN SHALL BE A SEED MIX RECOMMENDED BY NRCS FIELD OFFICE REPRESENTATIVE APPROPRIATE FOR PROJECT LOCATION.

    ALL DISTURBED AREAS, NOT ADDRESSED BY ARCHITECTURAL LANDSCAPE PLAN WITH SLOPES OF LESS THAN 3:1 SHALL RECEIVE CLASS "A" SEEDING. ANY SLOPES THAT ARE 3:1 OR STEEPER SLOPES SHALL RECEIVE STEEP SLOPE SEEDING. THE STEEP SLOPE SEEDING SHALL CONSIST OF SEEDING IN CONJUNCTION WITH A 100% COCONUT FIBER BLEND EROSION BLANKET (NORTH AMERICAN GREEN C125) OR APPROVED EQUAL.

HYDROLOGY CALCULATIONS

HYDROLOGY

Precipitation Zone 1 - 100-year Storm P(360) = 2.20 in P(1440) = 2.66 P(10 day) = 3.67

Basin	Basin Area (Ac)	Land Treatment Factors A (Acres)	B	C	D	Ew (in)	V(100-6) (af)	V(100-24) (af)	V(100-10 day) (af)	Q(100) (cfs)
Existing Conditions										
C	3.40	1.70	0.00	1.50	0.20	0.77	0.219	0.227	0.243	7.37
Total	**3.40**									**7.37**
Proposed Conditions										
C	3.40	0.00	0.50	1.30	1.60	1.40	0.398	0.459	0.594	11.74
Total	**3.40**									**11.74**

FIRST FLUSH CALCULATIONS

VFF = (69,696 SF* 0.34"/12)

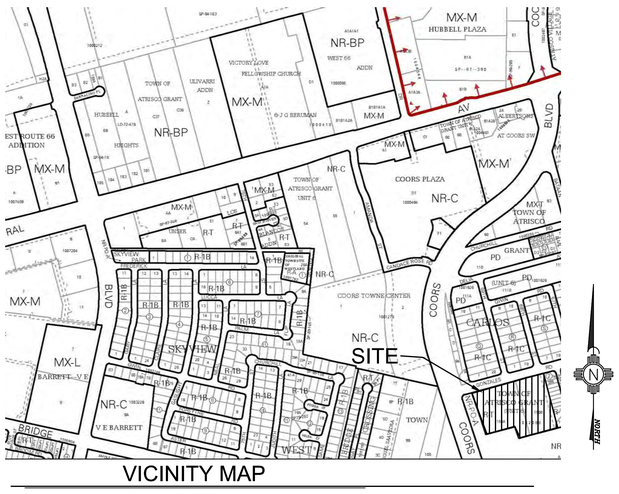
VFF = 1,975 CF

VOLUME PROVIDED (AT 5031 TOP OF POND) = 0.720AF = 31,636.20 CF

POND RATING CURVES

WATER HARVEST AREA

Pond Rating Table				
Side Slope	3:1			
Depth	Area		Volume	Cum Volume	
(ft)	(sq ft)	(ac)	(ac-ft)	(ac-ft)	
5025	2856	0.066	0.000	0.000	
5026	3537	0.081	0.073	0.073	
5027	4290	0.098	0.090	0.163	
5028	5117	0.117	0.108	0.271	
5029	6010	0.138	0.128	0.399	
5030	6987	0.160	0.149	0.548	
5031	8021	0.184	0.172	0.720	top of pond



VICINITY MAP

ZONE ATLAS K–10–Z

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12/02/20
BY: Renée C. Brissette
HydroTrans # L10D007A

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS/REPORT, FINAL SPECIFICATIONS, OR CONSTRUCTIONS. SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

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FAX: 505.884.5390
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CONSULTANT

ARCHITECT

ENGINEER
CERLYN A. MILLER
NEW MEXICO
14507
REGISTERED PROFESSIONAL ENGINEER
11/11/2020

Mark Armijo Academy - Master Plan

Project Status

6800 Gonzales Rd SW
Albuquerque, NM 87121

NOVEMBER 2020

MARK	DATE	DESCRIPTION

ISSUE:	
DATE:	
PROJECT NO:	Project Number
CAD DWG FILE:	
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

HYDROLOGY

C-100

Mark Armijo Academy - Master Plan

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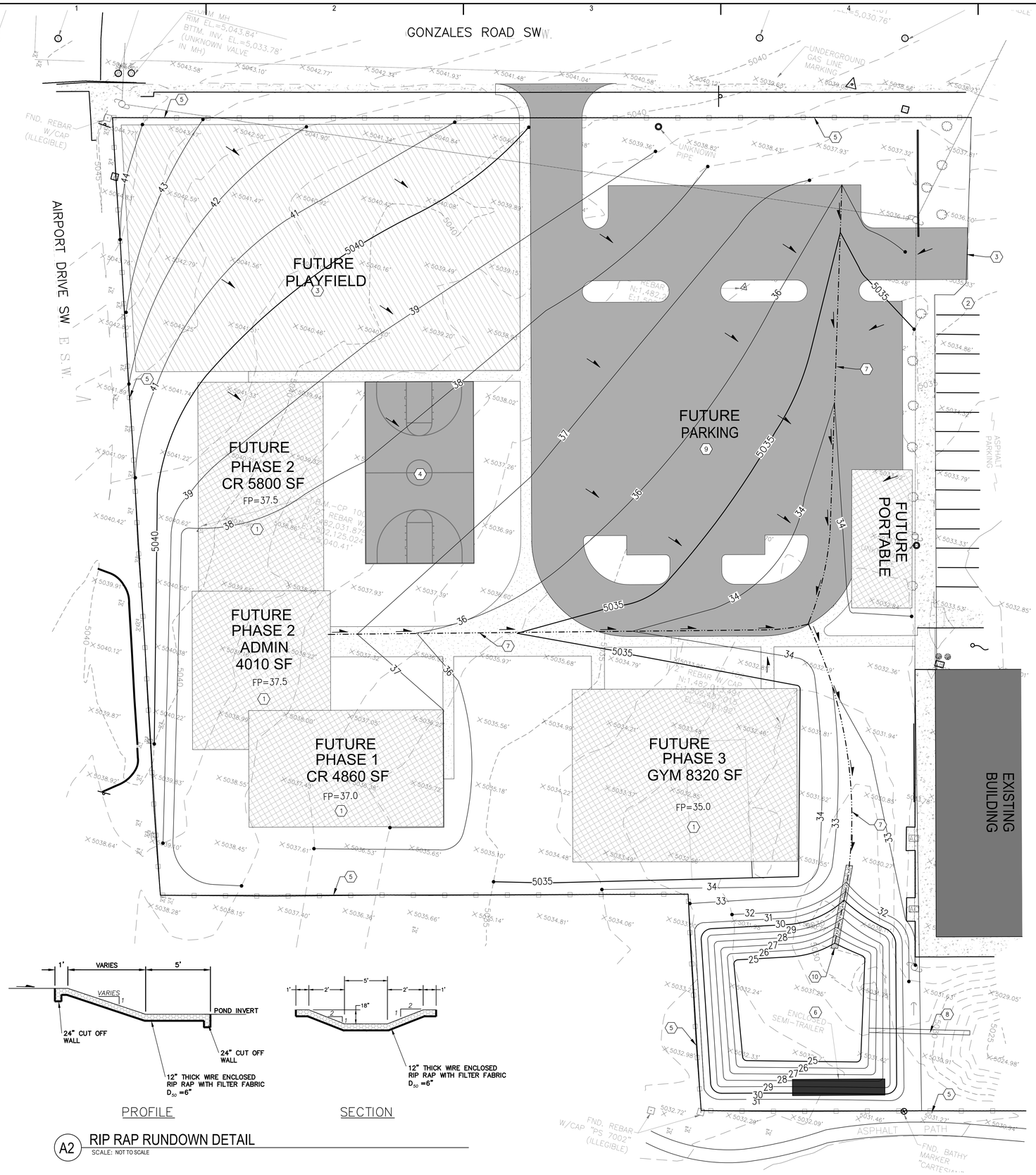

PROFILE

SECTION

A2 RIP RAP RUNDOWN DETAIL

SCALE: NOT TO SCALE

A1 GRADING AND DRAINAGE PLAN

SCALE: 1" = 20'-0"

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 GRATE
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

KEYED NOTES:

1. FUTURE BUILDING SEE ARCHITECTURAL DRAWINGS.
2. EXISTING PARKING AND ASPHALT TO REMAIN.
3. FUTURE PLAY FIELD SEE LANDSCAPING PLAN.
4. FUTURE BASKETBALL COURT.
5. EXISTING PROPERTY LINE.
6. NEW RETENTION POND C. TOP=31.0, INV=25.0.
7. EARTHEN SWALE
8. NEW 24"ADS HP STORM DRAIN PIPE, L=47', S=0%, INV IN=26.0, INV OUT=26.0.
9. FUTURE PARKING LOT.
10. RIP RAP RUNDOWN, SEE DETAIL THIS SHEET.

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12/02/20
BY: Ronis C. Bruzuela
HydroTrans # L10D007A
THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT ANY VIOLATION OF ANY ORDINANCE NOW IN FORCE AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION, OR ERROR OR DIMENSION IN PLANS, SPECIFICATIONS, OR CONSTRUCTIONS. SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

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CONSULTANT

ARCHITECT

ERLYN A. MILLER
NEW MEXICO
14507
REGISTERED PROFESSIONAL ENGINEER
11/17/2020
ENGINEER

Mark Armijo Academy - Master Plan

Project Status

6800 Gonzales Rd SW
Albuquerque, NM 87121

NOVEMBER 2020

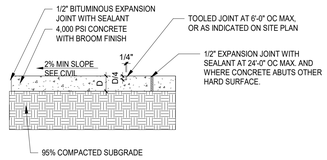
MARK	DATE	DESCRIPTION

ISSUE:	
DATE:	
PROJECT NO:	Project Number
CAD DWG FILE:	
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

MASS GRADING PLAN

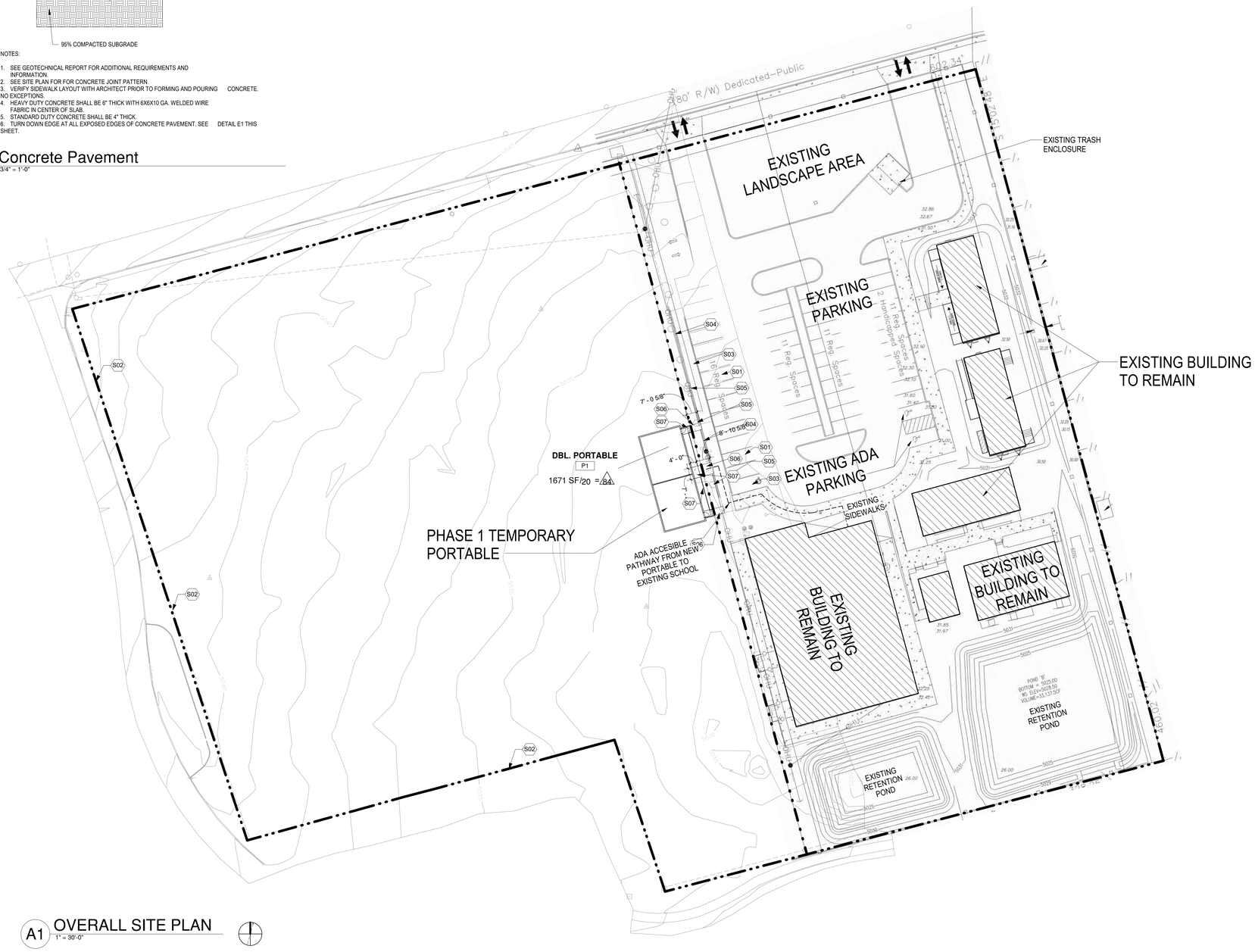
C-101



NOTES:

1. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
2. SEE SITE PLAN FOR FOR CONCRETE JOINT PATTERN.
3. VERIFY SIDEWALK LAYOUT WITH ARCHITECT PRIOR TO FORMING AND POURING CONCRETE. NO EXCEPTIONS.
4. HEAVY DUTY CONCRETE SHALL BE 6" THICK WITH 6X6X10 GA. WELDED WIRE FABRIC IN CENTER OF SLAB.
5. STANDARD DUTY CONCRETE SHALL BE 4" THICK.
6. TURN DOWN EDGE AT ALL EXPOSED EDGES OF CONCRETE PAVEMENT. SEE DETAIL E1 THIS SHEET.

D1 Concrete Pavement
3/4" = 1'-0"



A1 OVERALL SITE PLAN
1" = 30'-0"

GROSS FLOOR CHANGE CALCULATIONS

GROSS BUILDING AREA	16,545 SF	
CAFETERIA	3,324 SF	
2,268 SF / 15 NET = 151 OCC.		
REQUIREMENTS (BASED ON 151 OCC)		
PARKINGS SPACES	1 SPACE FOR EA. 4 SEATS IN CAFTERIA	38
CREDITS		
10% FOR PUBLIC BUS STOP NEARBY		
38*.1=4		34
ADA SPACES REQUIRED	(FOR 26 TO 35 PARKING SPACES)	2
ADA VAN SPACES	(1 FOR EA. OF 2 ADA SPACES)	1
BICYCLE SPACES	(1 SPACE FOR EA. 50 STUDENTS)	4
MOTORCYCLE SPACES	(FOR 26 TO 50 PARKING SPACES)	2
PROVIDED		
TOTAL SPACES		51
ADA SPACES PROVIDED		2
ADA VAN SPACES		1
BICYCLE RACK PROVIDED (CONTRACTOR TO ENSURE)		4
MOTORCYCLE SPACES PROVIDED		2

GENERAL NOTES

A. SUB GRADE PEREPERATION AND SOIL COMPACTION AT ALL CONCRETE WORK SHALL COMPOLY WITH REQUIREMENTS ON CIVIL DRAWINGS AND GEOTECHNICAL REPORT.

B. PROVIDE BROOM FINISH ON CONCRETE SIDEWALKS, UNLESS NOTED OTHERWISE.

C. VERIFY SIDEWALK LAYOUT WITH ARCHITECT PRIOR TO FORMING AND POURING CONCRETE. NO EXCEPTIONS.

D. FOR INFORMATION ON UTILITIES SEE SITE SURVEY SHEET, CIVIL UTILITY PLANS, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

E. CONTRACTOR SHALL PAY FOR AND COORDINATE WITH LOCAL UTILITY COMPANIES FOR ALL UTILITY DISCONNECT, RECONNECT AND DEMO WORK.

F. PATCH AND REPAIR ALL ASPHALT, CONCRETE, SOD, OTHER SITE ELEMENTS AS NECESSARY AT ALL AREAS OF NEW WORK, UTILITY TRENCHING AND CONTRACTOR STAGING/PARKING.

G. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING SITE FEATURES, PLANTINGS, AND UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING SITE FEATURES, PLANTINGS, AND UTILITIES TO REMAIN DUE TO CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.

H. WHERE NEW CONCRETE PAVEMENT AND/OR CURBING IS SHOWN ADJACENT TO EXISTING, CONTRACTOR SHALL PROVIDE NEW CONCRETE PAVEMENT AND/OR CURBING UP TO AND FLUSH WITH EXISTING. LIMITS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.

I. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LAYOUT OF BOTH THE SITE AND BUILDING NELEMENTS. COORDINATE FIELD INFORMATION WITH THE ARCHITECT PRIOR TO ANY CONSTRUCTION ACTIVITY.

J. ALL IRRIGATION SYSTEMS SHALL REMAIN ACTIVE THROUGH THE DURATION OF THE CONSTRUCTION PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALTERNATE IRRIGATION METHODS AS REQUIRED FOR THE CAMPUS AND FIELDS DURING ANY REQUIRED OUTAGES FOR NEW WORK.

K. CONTRACTOR TO FIELD VERIFY ANY MODIFICATIONS WILL NOT COMPROMISE IRRIGATION SYSTEM ON ANY OTHER PORTION OF THE CAMPUS.

KEYNOTE LEGEND

VALUE	DESCRIPTION
S01	EXISTING ASPHALT PAVING TO REMAIN. PATCH AND REPAIR AS NECESSARY TO PERFORM NEW WORK.
S02	EXISTING CHAIN-LINK FENCE TO REMAIN.
S03	EXISTING CONCRETE SIDEWALK TO REAMIN. PATCH AND REPAIR AS NECESSARY TO PERFORM NEW WORK.
S04	EXISTING OVERHEAD UTILITY LINE. SEE SURVEY. SEE ELECTRICAL.
S05	EXISTING TREES AND LANDSCAPING TO REMAIN. PROTECT. DAMAGE SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER.
S06	NEW CONCRETE PAVED SIDEWALK SEE DETAIL D1/AS-101.
S07	NEW ADA RAMP AND LANDING BY BUILDING MANUFACTURER.

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Albuquerque, NM 87109
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STATE OF NEW MEXICO
5-17-21
SANJAY L. ENGINEER
No. 3088
REGISTERED ARCHITECT
ARCHITECT

Mark Armijo ACADEMY

Mark Armijo Academy - Site Development Plan

CONSTRUCTION DOCUMENTS

6800 Gonzales Rd SW
Albuquerque, NM 87121

JUNE 2021

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION DOCUMENTS
DATE:	JUNE 2021
PROJECT NO:	Project Number
DRAWN BY:	A.A
CHECKED BY:	JTT

SHEET TITLE

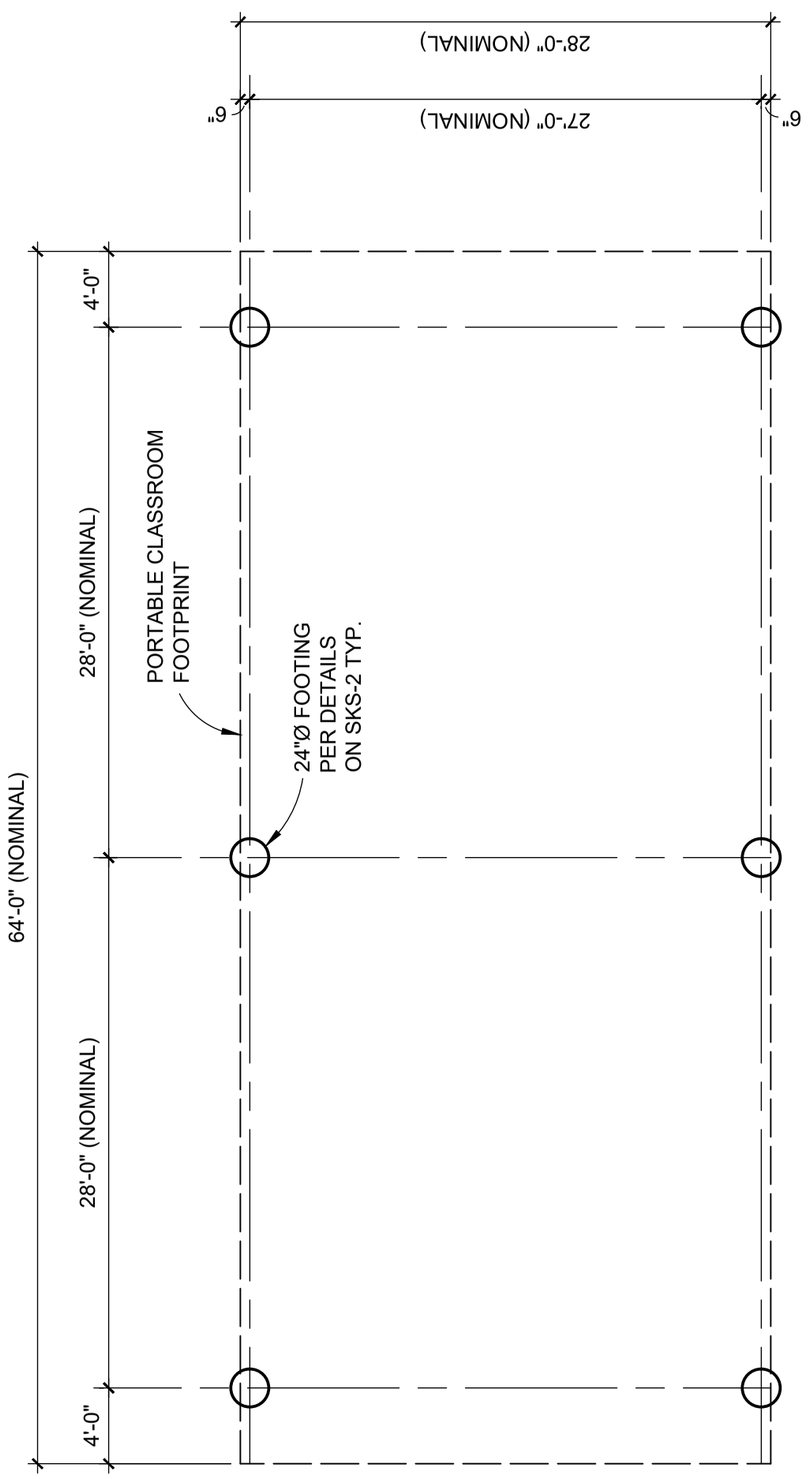
OVERALL SITE PLAN

AS-101

Walla
ENGINEERING LTD

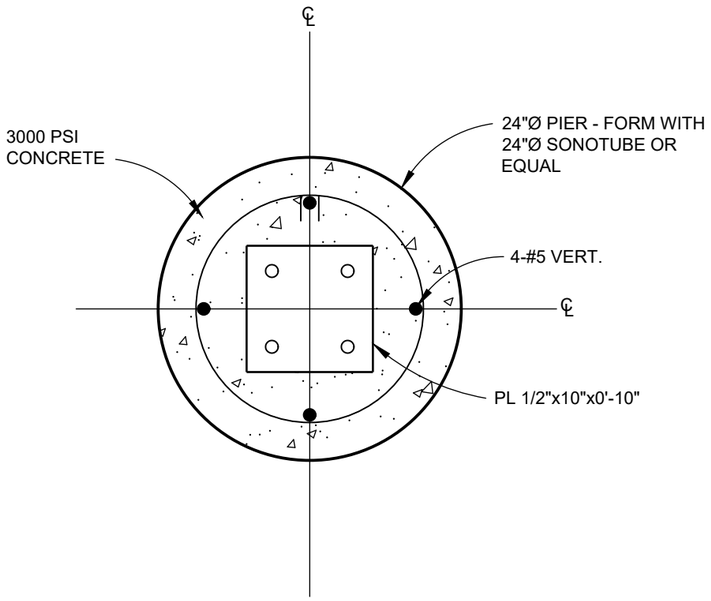
6501 Americas Parkway NE • Suite 301
Albuquerque • New Mexico • 87110
881-3008 • Facsimile 881-4025

SHEET NO. SKS-1 OF 2
JOB MARK ARMIJO ACADEMY
SUBJECT PORTABLE CLASSROOM FOUNDATION
CLIENT FBT JOB NO. F01-1620
BY LEK DATE 12-31-2020
CHECKED BY MJW DATE 12-31-2020

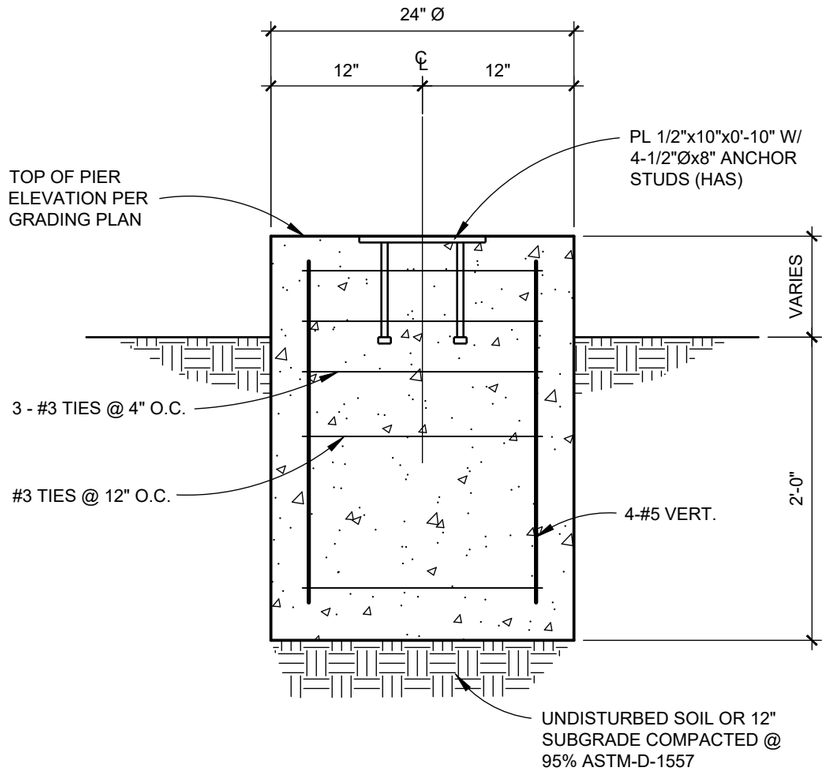


DOUBLE PORTABLE CLASSROOM FOUNDATION PLAN

1/8" = 1'-0"



PLAN



SECTION

FOOTING DETAILS

SCALE: 1"=1'-0"

Wallace
ENGINEERING LTD
6501 Americas Parkway NE • Suite 301
Albuquerque • New Mexico • 87110
881-3008 • Facsimile 881-4025

SHEET NO. SKS-2 OF 2
JOB MARK ARMIJO ACADEMY
SUBJECT PORTABLE CLASSROOM FOUNDATION
CLIENT FBT JOB NO. F01-1620
BY LEK DATE 12-31-2020
CHECKED BY MJW DATE 12-31-2020

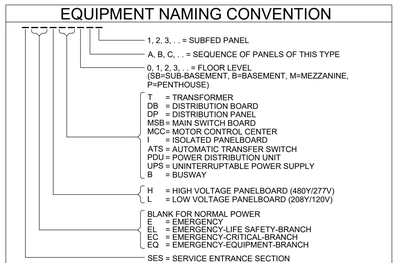
ELECTRICAL SYMBOL LEGEND (NOT ALL SYMBOLS APPLY TO THIS PROJECT)

UPDATED: 09/07/2016

ABBREVIATIONS

ABBREV.	DEFINITION
A	AMPS, AMPERE, AMPERAGE
AC	ABOVE COUNTER
A/C	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CURRENT
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ATSC	AUTOMATIC TRANSFER SWITCH CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
A/V	AUDIO/VISUAL
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CL	CLOCK
CLF	CURRENT LIMITING FUSE
CO	CONDUIT ONLY
CU	COPPER
D	DIMMING
DC	DIRECT CURRENT
DL	DAY-LIGHTING
DIA	DIAMETER
E	EMERGENCY
EC	EMERGENCY, CRITICAL
EG	ENGINE GENERATOR
EL	EMERGENCY, LIFE SAFETY
EQ	EMERGENCY, EQUIPMENT
EX	EXISTING
FUT	FUTURE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FDR	FEEDER
FMS	FACILITY MANAGEMENT SYSTEM
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
G OR GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFEP	GROUND FAULT EQUIPMENT PROTECTION
GFP	GROUND FAULT PROTECTION
GND	GROUND.
HOA	HAND-OFF-AUTOMATIC.
HP	HORSEPOWER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPS
KVAR	KILOVOLT AMPS REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR.
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND FAULT PROTECTION
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MIN	MINIMUM
MM	MIXED MEDIA
MTS	MANUAL TRANSFER SWITCH
MVA	MEGAVOLT AMPS
N	NEW
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NORMAL
NM	NEW MEXICO
NO	NORMALLY OPEN
O/H	OVERHEAD
P	POLE
PA	PUBLIC ADDRESS
PC	PHOTOCELL
PH	PHASE
PMCS	POWER MONITORING AND CONTROL SYSTEM
R	REMOVED/REMOVAL
RC	ROOM CONTROLLER
RSC	RIGID STEEL CONDUIT
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SW	SWITCH
TEMP	TEMPORARY
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP.	TYPICAL
UC	UNDER COUNTER
U/G	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLTS, VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
W	WALL MOUNTED
WG	WEATHERPROOF AND GFCI
WP	WEATHERPROOF
XFER	TRANSFER
XFMR (TRANSF)	TRANSFORMER

EQUIPMENT NAMING CONVENTION



EXAMPLES:
A. SES1 (SERVICE ENTRANCE SECTION #1)
B. 1H1A (SERVED FROM SES#1, 480/277 NORMAL, LEVEL 1, FIRST BOARD)
C. 1EQH1A (SERVED FROM MAIN EMER SWBD #1, 480/277 EQUIP POWER, LEVEL 1, FIRST BOARD)

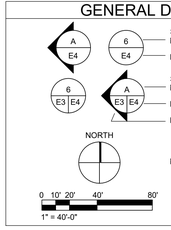
RACEWAY & CONDUCTORS

BRANCH CIRCUIT GENERAL INFORMATION:

BRANCH CIRCUITS FROM OVERCURRENT PROTECTION (20A) TO FURTHEST DEVICE SHALL NOT EXCEED 75 FEET FOR #12AWG COPPER AND 150 FEET FOR #10AWG COPPER; MEASURED ALONG CONDUCTORS ROUTING PATH. BRANCH CIRCUITS EXCEEDING 150 FEET WILL BE SIZED SO THAT VOLTAGE DROP DOES NOT EXCEED 5%.

SYMBOL	DESCRIPTION
= GROUND = HOT/PHASE = NEUTRAL = SWITCH LEG	CONDUCTOR IDENTIFICATION SYMBOLS. REFER TO PLANS FOR COMBINATION USE. CONDUCTOR IDENTIFICATION MOSTLY USED IN HOMERUN LOCATION, BUT CAN ALSO BE USED IN BRANCH CIRCUITING WHERE APPLIED. GROUND CONDUCTORS WILL BE INSTALLED IN ALL RACEWAYS WHETHER SHOWN OR NOT.
LA-1	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL SINGLE POLE CIRCUIT BREAKER (S). CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
LA-1,3 LA-5,7,9	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL SINGLE POLE CIRCUIT BREAKER (S). SYMBOL REPRESENTS A MULTI-BRANCH CIRCUIT. NUMBER OF CONDUCTORS IN HOMERUN WILL INCLUDE A SEPERATE NEUTRAL FOR EACH CIRCUIT PHASE CONDUCTOR. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. NEUTRAL MAY BE USED WHERE INDICATED ON PLAN. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
LA-7 LA-13	HOMERUN FROM EQUIPMENT LOCATION. THE CIRCUIT NUMBER ADJACENT TO HOMERUN INDICATES PANEL SOURCE AND INDIVIDUAL TWO OR THREE POLE CIRCUIT BREAKERS. CONDUCTOR IDENTIFICATION SYMBOL INDICATES NUMBER OF CONDUCTORS IN HOMERUN. MINIMUM #12 CONDUCTORS AND 3/4" RACEWAY PATH WILL BE PROVIDED IN HOMERUN UON. NEUTRAL MAY BE USED WHERE INDICATED ON PLAN. ALL HOMERUNS WILL INCLUDE GROUND CONDUCTOR.
	CONCEALED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT IN WALLS OR IN CEILING SPACE
	UNDERGROUND RACEWAY BETWEEN DEVICES AND OR EQUIPMENT
	EXPOSED RACEWAY BETWEEN DEVICES AND OR EQUIPMENT ON WALLS OR CEILINGS
DOWN UP	CONDUIT TURNS
	CONDUIT STUBBED AND CAPPED
B	BUSWAY
G	GROUNDING CONDUCTOR
	CABLE TRAY - POWER AND TELECOMMUNICATIONS
T	TELECOMMUNICATIONS RACEWAY
D	DATA RACEWAY
V/D	VOICE/DATA COMBINATION RACEWAY
FA	FIRE ALARM RACEWAY

GENERAL DRAWING SYMBOLS



DEMOLITION

SYMBOL	DESCRIPTION	NOTES
	DASHED SYMBOL INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED	REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION
R	REMOVE EXISTING RACEWAY IN ALL ACCESSIBLE AREAS. CAPPED AND ABANDONED IF IN UNACCESSIBLE AREA	
	SOLID SYMBOL, LIGHTER IN COLOR INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN	
EX	EXISTING CONDUIT TO BE REUSED	

REFERENCE TAGS

SYMBOL	DEFINITION
	KEYED NOTE REFERENCE
VAV-9	MECHANICAL EQUIPMENT REFERENCE
+44"	DENOTES MOUNTING HEIGHT AFF
	KITCHEN EQUIPMENT REFERENCE
	MEDICAL EQUIPMENT REFERENCE

DEVICES

DEVICE INDICATOR LETTER. "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST RECEPTACLE TYPES):
BLANK FOR NORMAL POWER
G = GFCI RATED
IG = ISOLATED GROUND
T = TAMPERPROOF
WG = WEATHERPROOF AND GFCI
WP = WEATHERPROOF (IN-USE COVER)
CL = CLOCK
TV = TELEVISION

SYMBOL	DESCRIPTION	MOUNTING LOC.	MOUNTING HT.
X	IN FLOOR DUPLEX RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS	FLOOR	VARIES
X	IN FLOOR DOUBLE DUPLEX (QUADPLEX) RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS		
X	IN FLOOR EMERGENCY DUPLEX RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS		
X	IN FLOOR EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE. CONFIGURATION AS INDICATED ON PLANS		
X	COMBINATION DUPLEX RECEPTACLE AND COMMUNICATIONS FLOORBOX. DEVICE CONFIGURATION AS INDICATED ON PLANS.		
X	CEILING MOUNTED DUPLEX RECEPTACLE	CEILING	FLUSH
X	CEILING MOUNTED DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
X	CEILING MOUNTED EMERGENCY DUPLEX RECEPTACLE		
X	CEILING MOUNTED EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
X	COMBINATION POWER/COMMUNICATION IN CEILING OUTLET. CONFIGURATION AS INDICATED ON PLANS		
X	SIMPLEX RECEPTACLE	WALL, UON	+18", UON
X	DUPLEX RECEPTACLE		
X	DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
X	EMERGENCY DUPLEX RECEPTACLE		
X	EMERGENCY DOUBLE DUPLEX (QUADPLEX) RECEPTACLE		
X	SPECIAL PURPOSE RECEPTACLE. NEMA CONFIGURATION AND AMPERAGE AS NOTED ON PLANS		
	MULTI-OUILET ASSEMBLY (SURFACE MOUNTED RACEWAY)	VARIES SEE PLANS	VARIES SEE PLANS
	COMBINATION POWER/COMMUNICATION POLE. CONFIGURATION AS NOTED ON PLANS		
J	WALL MOUNTED CODE SIZE J-BOX	VARIES SEE PLANS	VARIES SEE PLANS
J	CODE SIZE JUNCTION BOX		
P	CODE SIZE PULLBOX (OR AS SIZED ON PLAN)		
	PUSHBUTTON (EMERGENCY POWER OFF - EPO)		
PC	PHOTOCELL		
	LIGHTNING PROTECTION AIR TERMINAL	ROOF	VARIES
T	THERMOSTAT	WALL	+44" UON
CB 30/3R	ENCLOSED CIRCUIT BREAKER. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON	VARIES	VARIES
30/1	NON-FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
30/3R	FUSED DISCONNECT SWITCH. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
0/1	MOTOR STARTER. STARTER SIZE INDICATED BY NUMBER/NEMA ENCLOSURE RATING, SINGLE SPEED UON		
1/30/3R	COMBINATION FUSIBLE DISCONNECT SWITCH AND MOTOR STARTER. NEMA STARTER SIZE/AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE UON		
(5)	MOTOR. NUMBER INDICATES HORSEPOWER RATING FOR 1HP AND LARGER	N/A	N/A
(F)	MOTOR. "F" INDICATES FRACTIONAL HORSEPOWER		

EQUIPMENT

SYMBOL	DESCRIPTION
MSB	MAIN SWITCHBOARD. DASHED LINES INDICATE CLEARANCES.
DB	DISTRIBUTION BOARD OR PANEL. DASHED LINES INDICATE CLEARANCES.
H1A	FLUSH MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES.
L1A	SURFACE MOUNTED PANELBOARD. DASHED LINES INDICATE CLEARANCES.
MCC	MOTOR CONTROL CENTER. DASHED LINES INDICATE CLEARANCES.
T1A	DRY TYPE TRANSFORMER (15kVA OR ABOVE), WITH EQUIPMENT TAG (TAG INSIDE OR OUTSIDE, DEPENDING ON SIZE). IN MOST CASES, ACTUAL SIZE SHOWN ON PLANS (ELECTRICAL ROOMS).
T	DRY TYPE TRANSFORMER (LESS THAN 15kVA), WITH NO EQUIPMENT TAG. SIZE, TYPE AND LOCATION NOTED ON PLANS.
VFD	VARIABLE FREQUENCY DRIVE
UPS-A	UNINTERRUPTABLE POWER SUPPLY. DASHED LINES INDICATE CLEARANCES.
ATS-1	AUTOMATIC TRANSFER SWITCH. DASHED LINES INDICATE CLEARANCES.
G	GROUND BAR

LIGHTING

REFER TO LUMINAIRE SCHEDULE FOR ALL LUMINAIRE TYPES WHETHER WALL MOUNTED OR CEILING MOUNTED.

SYMBOL	DESCRIPTION	MOUNTING LOC.	MOUNTING HT.
	HATCHING INDICATES EMERGENCY LIGHTING. HATCH WILL BE MODIFIED FOR EACH LUMINAIRE TYPE. EMERGENCY LUMINAIRE DESIGNATED WITH "E" IN TYPE DESIGNATION.	VARIES	REFER TO LIGHTING SCHEDULE
3 A a	RECESSED MOUNTED LUMINAIRE. SMALL CASE "a" DENOTES SWITCHING, NUMBER "3" DENOTES BRANCH CIRCUITING. SYMBOL "A" DENOTES LUMINAIRE TYPE	CEILING	
	SURFACE MOUNTED LUMINAIRE. LUMINAIRE TYPE AS INDICATED ON PLANS		
	LINEAR DIRECT/INDIRECT LUMINAIRE. CABLE OR STEM MOUNTED		
	DOWN LIGHT LUMINAIRE; CEILING MOUNTED		
	WALL MOUNTED LUMINAIRES	WALL	
	TRACK MOUNTED LUMINAIRES	SURFACE	
	STRIP LUMINAIRE		
WALL CEILING	EXIT LUMINAIRE. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED ON PLANS	VARIES	
WALL CEILING	DOUBLE FACE EXIT LUMINAIRE. SHADED SIDE INDICATES FACE SIDE. PROVIDE DIRECTIONAL ARROW(S) AS INDICATED ON PLANS		
	EMERGENCY BATTERY PACK LUMINAIRE (BUG-EYE/FROG-EYE)		
	SINGLE HEAD, POLE MOUNTED LUMINAIRE	EXTERIOR	AS DETAILED
	DOUBLE HEAD, POLE MOUNTED LUMINAIRE		
$X	DEVICE INDICATOR LETTER. "X" EQUALS DESIGNATION BELOW (TYPICAL FOR MOST SWITCH TYPES): a = SMALL CASE LETTER DENOTES SWITCHING CONTROL 2 = DOUBLE POLE TOGGLE SWITCH 3 = THREE-WAY TOGGLE SWITCH 4 = FOUR-WAY TOGGLE SWITCH P = PILOT LIGHT TOGGLE SWITCH M = MOMENTARY CONTACT SWITCH K = KEY OPERATED SWITCH WP = WEATHERPROOF TOGGLE SWITCH T = MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD PROTECTION D = DIMMER SWITCH TW = TWIST TIMER SWITCH	WALL	+44" UON
OS	WALL MOUNTED OCCUPANCY SENSOR; TYPE AS INDICATED ON PLANS		
OS	CEILING MOUNTED OCCUPANCY SENSOR; TYPE AS INDICATED ON PLANS	CEILING	SURFACE
DL	DAY-LIGHTING SENSOR; TYPE AS INDICATED ON PLANS		
RC	ROOM CONTROLLER; TYPE AS INDICATED ON PLANS		

UTILITIES

SYMBOL	DESCRIPTION
	DISTRIBUTION POLE FOR OVERHEAD ELECTRICAL OR COMMUNICATIONS AS INDICATED ON PLAN.
X X X	OVERHEAD UTILITY AND OR SYSTEM DISTRIBUTION. 3PH = THREE PHASE 1PH = SINGLE PHASE P = ELECTRICAL PRIMARY S = ELECTRICAL SECONDARY T = TELECOMMUNICATION TV = TELEVISION E = EMERGENCY POWER ATSC = AUTOMATIC TRANSFER SWITCH CONTROL N = NEW EX = EXISTING
X X X	UNDERGROUND UTILITY AND OR SYSTEM DISTRIBUTION.
UT	UTILITY OR FACILITY TRANSFORMER
S	PAD MOUNTED SWITCH
CC	CONNECTION CABINET (UTILITY METER MOUNT)
PM	PRIMARY SITE METER ENCLOSURE
ME	METER ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT
CT	CT ENCLOSURE. EITHER ON BUILDING OR ON UTILITY EQUIPMENT
MH	MANHOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS
HH	HAND HOLE - POWER OR COMMUNICATION AS INDICATED ON PLANS
EG	ENGINE GENERATOR
TP	TELECOMMUNICATION PEDESTAL
TVP	TELEVISION PEDESTAL

FIRE ALARM

SYMBOL	DESCRIPTION	MOUNTING LOC.	MOUNTING HT.
FACP	FIRE ALARM CONTROL PANEL	WALL	-
FATC	FIRE ALARM TERMINAL CABINET (EQUIP. NAMING CONVENTION PER PLANS)		
FAA	FIRE ALARM ANNUNCIATOR PANEL	WALL	+44"
F	PULL STATION		
	FIREMAN'S TELEPHONE OUTLET		
F	HORN NOTIFICATION	WALL	+80" UON
S	SPEAKER NOTIFICATION		
C	CHIME NOTIFICATION		
	COMBINATION SPEAKER AND CHIME NOTIFICATION		
	SPEAKER/HORN WITH STROBE LIGHT		
	STROBE LIGHT ONLY		
B	BELL (GONG)		
P	PHOTOELECTRIC SMOKE DETECTOR	CEILING	SURFACE
	IONIZATION SMOKE DETECTOR		
R/F	COMBINATION RATE OF RISE / FIXED TEMPERATURE		
F	FIXED TEMERATURE; TEMPERATURE AS NOTED ON PLANS OR SPECS.		
R	RATE OF RISE ONLY		
BT	BEAM TRANSMITTER	CEILING OR WALL	VARIES
BR	BEAM RECEIVER		
U	UNDER FLOOR SMOKE DETECTOR	UNDER FLOOR	SEE PLANS
	DUCT DETECTOR	AT DUCT	SEE PLANS
	FIRE/SMOKE DAMPER		
PS	PRESSURE SWITCH	PIPE	VARIES
TS	TAMPER SWITCH		
FS	FLOW SWITCH		
PIV	POST INDICATOR VALVE		
M	MAGNETIC DOOR HOLDER	VARIES	SEE PLANS
R	CONTROL RELAY		
MM	MONITOR MODULE		
	REMOTE ALARM INDICATING LIGHT		
R	ADDRESSABLE/SUPERVISED RELAY		

ONE-LINE DIAGRAM

SYMBOL	DESCRIPTION
300 400	CIRCUIT BREAKER; TRIP SETTING/FRAME SIZE OR NO. OF POLES. SETTINGS AND PROTECTION AS NOTED ON PLANS
300 400	DRAWOUT CIRCUIT BREAKER (TRIP SETTING / FRAME SIZE)
300 400	MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER (TRIP SETTING / FRAME SIZE)
T1A 75kVA K-4 208Y/120V Δ 480V	TRANSFORMER. TRANSFORMER NAME. TRANSFORMER KVA RATING, PRIMARY VOLTAGE AND WIRING CONFIGURATION, SECONDARY VOLTAGE, K RATING (IF APPLICABLE)
3000/5	CURRENT TRANSFORMER, NUMBER "3000/5" DENOTES RATIO.
	POTENTIAL TRANSFORMER.
300A	DISCONNECT SWITCH. "300A" DENOTES AMPERAGE RATING
300A	FUSE. "300A" DENOTES AMPERAGE RATING
G	GROUND FAULT PROTECTION
ST	SHUNT TRIP OPERATOR
	GROUND CONNECTION
	TRANSFER SWITCH. SEE PLANS FOR TYPE OF SWITCH
	SURGE ARRESTOR
SPD	SURGE PROTECTIVE DEVICE
KW	KILOWATT METER
M	ELECTRONIC METER
K1	KIRK KEY INTERLOCK No.1
R1	RELAY No.1
AS	AMMETER SWITCH
A	AMMETER
VS	VOLTMETER SWITCH
V	VOLTMETER
	DELTA CONNECTED
	WYE CONNECTED
	GENERATOR
VFD	VFD CONNECTION
(5)	MOTOR CONNECTION
UPS	UPS

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ARCHITECT ENGINEER

Mark Armijo Academy - Master Plan

100% CD

6800 Gonzales Rd SW
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FEBRUARY 2021

MARK	DATE	DESCRIPTION

ISSUE:	
DATE:	
PROJECT NO:	Project Number
CAD DWG FILE:	
DRAWN BY:	-
CHECKED BY:	-

SHEET TITLE
ELECTRICAL LEGEND

E-001

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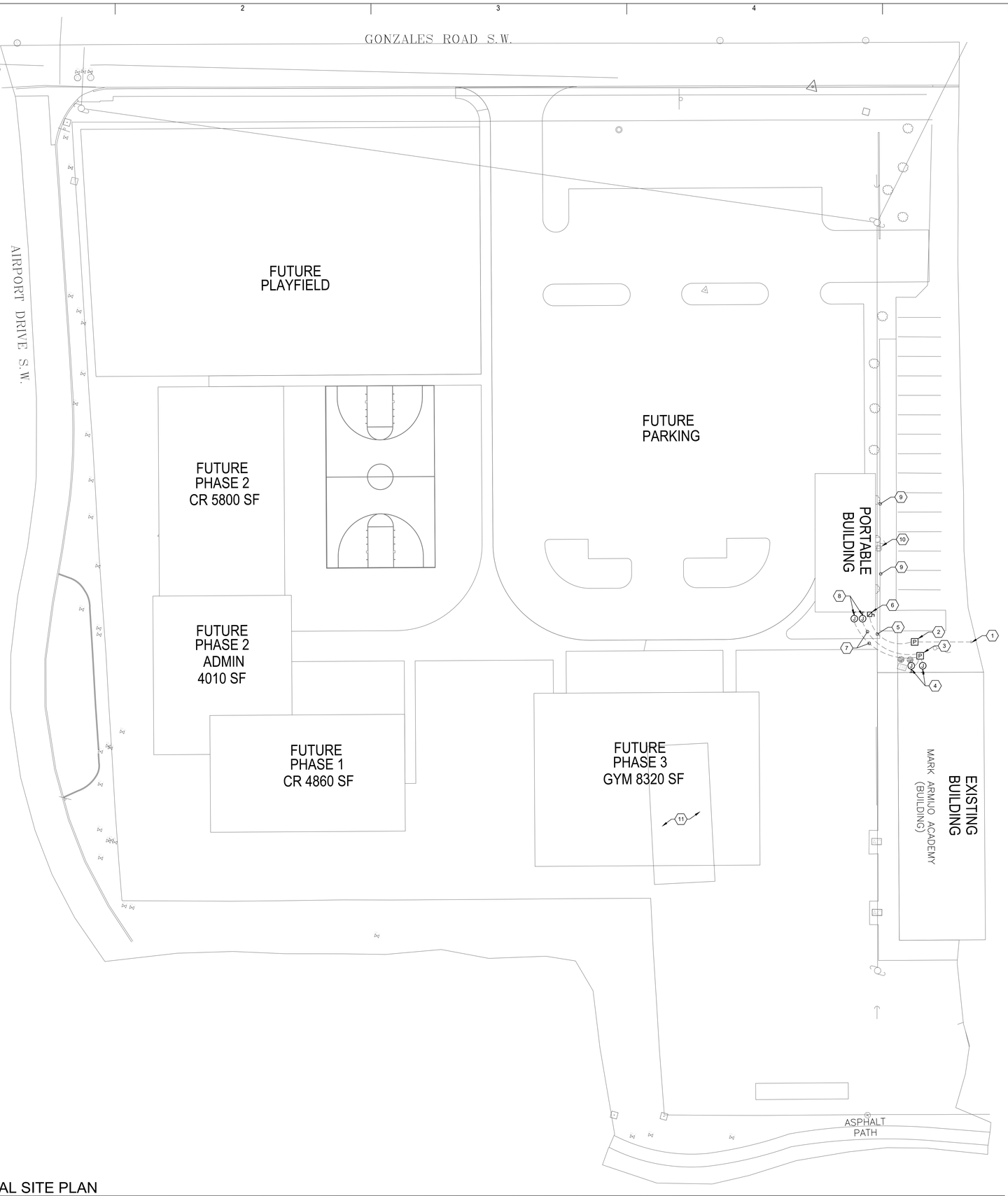

A1 ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

SCALE: 1"=20'

GENERAL NOTES:

1. SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT WILL BE THEIR RESPONSIBILITY TO NOTIFY THE ENGINEER FOR CLARIFICATION, PRIOR TO COMMENCING SUCH WORK.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS.
3. CONTRACTOR WILL REFER TO SHEET SERIES "C" FOR OTHER NEW AND EXISTING UTILITIES. MUST COORDINATE INSTALLATION OF ALL UTILITIES SHOWN ON THIS SHEET PRIOR TO COMMENCEMENT OF ANY WORK.

KEYED NOTES:

1. EXISTING UNDERGROUND 2" CONDUIT FROM UNDER PARKING AREA.CONDUIT ENDS ARE BURIED AND EXTEND UNDER LENGTH OF PARKING AREA FROM EAST TO WEST. COORDINATE EXACT LOCATION OF CONDUIT ENDS WITH SCHOOL REPRESENTATIVE. PROVIDE AN IN-GROUND PULL BOX AT EACH END OF CONDUIT. ON EAST END EXTEND UNDERGROUND CONDUIT FROM PULL BOX TO MAIN DISTRIBUTION PANEL. REFER TO SHEET E601 FOR ADDITIONAL INFORMATION.
2. PROVIDE NEW CODE SIZED, PRECAST CONCRETE IN-GROUND PULL BOX FOR EXTENSION OF EXISTING UNDERGROUND 2" CONDUIT TO NEW PORTABLE.
3. PROVIDE NEW CODE SIZED, PRECAST CONCRETE IN-GROUND PULL BOX FOR EXTENSION OF DATA AND FIRE ALARM CONNECTION FROM MAIN BUILDING VIA EXISTING WALL MOUNTED JUNCTION BOXES LOCATED ON MAIN BUILDING.
4. EXISTING BUILDING MOUNTED JUNCTION BOXES FOR DATA AND FIRE ALARM CONNECTION FROM MAIN BUILDING. EXTEND CONDUIT AND WIRE FROM RESPECTIVE SOURCES IN MAIN BUILDING, ABOVE LAY-IN TILE CEILING SPACE, TO JUNCTION BOXES INDICATED AND DOWN TO IN-GROUND PULL BOX.
5. PROVIDE UNDERGROUND 2" CONDUIT EXTENSION FROM IN-GROUND PULL BOX TO NEW PORTABLE ALONG WITH (3) #1 COPPER CONDUCTORS AND A #6 GND AS A SINGLE CONTINUOUS RUN FROM MAIN DISTRIBUTION PANEL.
6. REMOVE EXISTING DISCONNECT SWITCH AND REPLACE WITH NEW. REFER TO SHEET E601 FOR ADDITIONAL INFORMATION.
7. PROVIDE UNDERGROUND 1" CONDUIT AND CONDUCTORS FOR DATA AND FIRE ALARM CONNECTION TO PORTABLE FROM EXISTING CONNECTIONS IN MAIN BUILDING VIA IN-GROUND PULL BOX.
8. PROVIDE NEW WEATHERPROOF, WALL MOUNTED JUNCTION BOXES FOR DATA AND FIRE ALARM CONNECTION TO PORTABLE.
9. OVERHEAD PNM POWER LINES. MAINTAIN A MINIMUM OF 5'-0" FROM EDGE OF PORTABLE ROOF TO OVERHEAD LINES.
10. EXISTING PNM POWER POLE. MAINTAIN A MINIMUM OF 10'-0" FROM POWER POLE FOR PNM ACCESS.
11. EXISTING LOCATION OF PORTABLE. DOES NOT PRESENTLY HAVE ANY UTILITY SERVICES.

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SHEET TITLE
ELECTRICAL SITE PLAN

ES101

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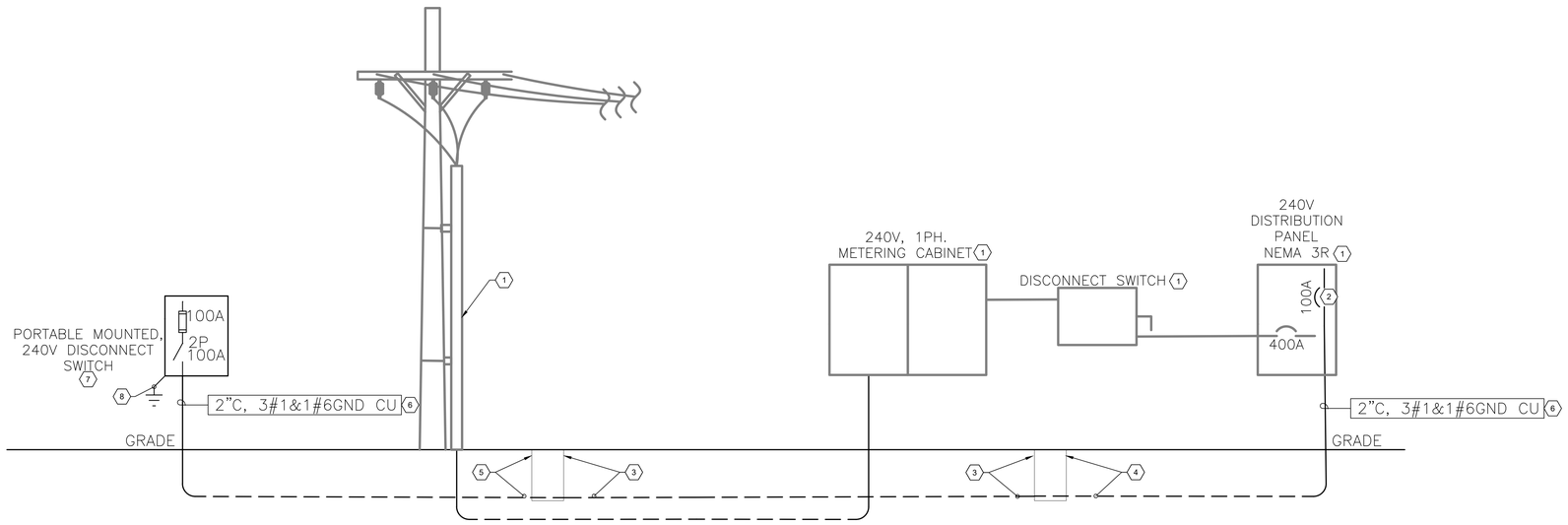

C1 ELECTRICAL DIAGRAMS

SCALE: 1" = 20'-0"

GENERAL NOTES:

1. SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT WILL BE THEIR RESPONSIBILITY TO NOTIFY THE ENGINEER FOR CLARIFICATION, PRIOR TO COMMENCING SUCH WORK.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS.

⬡ KEYED NOTES:

1. EXISTING EQUIPMENT WILL REMAIN AS PRESENTLY INSTALLED.
2. PROVIDE NEW 2 POLE, 240V CIRCUIT BREAKER. SIZE AS INDICATED. CIRCUIT BREAKER TO MATCH PANEL AIC RATING AND FAMILY OF CIRCUIT BREAKERS PRESENTLY INSTALLED.
3. EXISTING UNDERGROUND 2" CONDUIT UNDER PARKING AREA. INTERCEPT AND EXTEND TO NEW IN-GROUND PULL BOX.
4. PROVIDE UNDERGROUND 2" CONDUIT EXTENSION FROM PULL BOX TO EXISTING MAIN DISTRIBUTION PANEL.
5. PROVIDE UNDERGROUND 2" CONDUIT EXTENSION FROM PULL BOX TO NEW PORTABLE DISCONNECT SWITCH.
6. PROVIDE CONDUCTORS, SIZE AS INDICATED, AS A SINGLE CONTINUOUS RUN FROM PORTABLE DISCONNECT SWITCH, THROUGH IN-GROUND PULL BOXES, TO EXISTING MAIN DISTRIBUTION PANEL.
7. PORTABLE MOUNTED DISCONNECT SWITCH. PROVIDE 250V RATED, 100A, NEMA 3R, KNIFE BLADE, FUSED DISCONNECT. RECONNECT EXISTING CONDUCTORS PRESENTLY INSTALLED FROM EXISTING PANEL IN PORTABLE TO SECONDARY SIDE OF DISCONNECT.
8. PROVIDE A GROUND ROD ELECTRODE SYSTEM PER NEC 250. DO NOT BOND GROUND AND NEUTRAL CONDUCTORS.

Elec. Service Calc.- M.A Academy Portable Load							
Description of Load	Sq. Ft.	Connected Load KVA	Demand % Multiplier	Demand Load KVA	Service % Multiplier	Service Load KVA	Notes
Portable	1,200	12	100%	12	100%	15	
Subtotal of loads KVA		12		12		15	
					Total Service load KVA	15	
					Voltage of Service (240-1PH)	0.240	
					Total Service Ampacity	63	
1,200 Sq. Ft.		10.00 watts/sq.ft. Portable =				12,000 VA	
NOTES							

A1 PORTABLE SERVICE CALCULATION

Maximum voltage drop for a Branch Circuit shall be less than 3% (NEC 210.19.A. FPN 4). Source: 2017 NEC
Maximum voltage drop for a Feeder shall be less than 3% (NEC 215.2. FPN 2).
Maximum combined voltage drop for a Feeder and Breaker shall be less than 5%

Run	Feeder or Branch Circuit Run:	Type of Circuit	Voltage	Phase	Conductor Material	Length (ft)	Size	Load Current (Amps)	Qty Parrallel Runs	Load on feeder	Resistance	Voltage Drop	% Voltage Drop Feeder	% Voltage Drop Branch
1	MDP TO PORTABLE DISCONNECT	Feeder	240	1	C	150	1	100	1	100	0.154	**4.62**	**1.93%**	

B3 VOLTAGE DROP CALCULATION

KNOWN FAULT INFORMATION						SECOND TRANSFORMER IN SYSTEM (DRY-TYPE)					FEEDER/BRANCH CIRCUIT CALCULATION								RESULT
Fault Point	Equipment	Source of Fault	Available Fault Current	Voltage:	PHASE:	XFMR Size (kVA):	Secondary Voltage:	Xfmr Impedence (Ohms):	Xfmr Impedence (user input):	"I" factor	"M" factor	Conductor Type	Conductor Size	3 single conductors?	Conduit Type	Number of sets	Length to fault	"C" value	"I" factor	"M" factor	Available Short Circuit Current at Fault:
F1	MDP	PNM POLE	65000	240	1							C	600	Y	S	1	150	22965	3.538	0.220	**14324**
F2	PORTABLE DISCONNECT	MDP	14324	240	1							C	1	Y	S	1	150	7293	2.455	0.289	**4146**

A3 FAULT CURRENT CALCULATION

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FAX: 505.884.5390
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CONSULTANT

BRIDGERS & PAXTON
4600 C Montgomery Blvd. NE
Albuquerque, NM 87109 | 505.883.4111 | www.bpce.com

ARCHITECT

JOHN F. HECK IV
STATE OF NEW MEXICO
NO. 12498
REGISTERED PROFESSIONAL ENGINEER
John Heck
2021.02.25 13:08:29 -06'00'

ENGINEER

Mark Armijo Academy - Master Plan

100% CD

6800 Gonzales Rd SW
Albuquerque, NM 87121

FEBRUARY 2021

MARK	DATE	DESCRIPTION

ISSUE:	
DATE:	
PROJECT NO:	Project Number
CAD DWG FILE:	
DRAWN BY:	-
CHECKED BY:	-

SHEET TITLE

ELECTRICAL DIAGRAMS

MILLER ENGINEERING CONSULTANTS
Engineers • Planners
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BUILDING F
ALBUQUERQUE, NM 87107
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(505)888-3600 (FAX)
WWW.MECNM.COM

E-601

Mark Armijo Academy - Master Plan

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director

Mayor Timothy M. Keller

February 3, 2021

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

RE: Mark Armijo Charter School
6800 Gonzales Road SW
Grading and Drainage Plan
Engineer's Stamp Date: 01/13/21
Hydrology File: L10D007A

Dear Mr. Miller:

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Based upon the information provided in your submittal received 01/14/2021, 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.

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.

Also as a reminder, please provide the Drainage Covenant for the proposed retention pond per Article 6-15(C) of the DPM as soon as possible. There is a recording fee ($25, payable to Bernalillo County). Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996). Due to COVID-19, please follow the instructions:

Either email a pdf copy of the executed drainage covenant and the exhibit to clabadie@cabq.gov or either mail or drop off the originals. Please mail the $25.00 recording fee check made payable to Bernalillo County to:

Planning Dept./DRC
Attn: Charlotte LaBadie
600 2nd St. NW, Ste. 400
ABQ, NM, 87102

If you drop off the originals, there is a drop box outside the building labeled DRC. Once approved and recorded, Charlotte will email you a copy.

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

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director

Mayor Timothy M. Keller

August 31, 2021

Jeremy Trumble, RA
FBT Architects
6501 Americas PKWY NE, Ste 300
Albuquerque, NM 87110

Re: Mark Armijo-Portable Addition
6800 Gonzales Rd SW
Traffic Circulation Layout
Architect's Stamp 08-09-2021 (L10-D007A)

Dear Mr. Trumble,

The TCL submittal received 08-30-2021 is approved for Building Permit with. A copy of the stamped and signed plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation.

When the site construction is completed and an inspection for Certificate of Occupancy (C.O.) is requested, use the original City stamped approved TCL for certification. Redline any minor changes and adjustments that were made in the field. A NM registered architect or engineer must stamp, sign, and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification, the TCL, and a completed Drainage and Transportation Information Sheet to front counter personnel for log in and evaluation by Transportation.

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3690.

Sincerely,

Nilo Salgado-Fernandez, P.E.
Senior Traffic Engineer, Planning Dept.
Development Review Services

C: CO Clerk, File

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

VICINITY MAP — 6800 Gonzales Rd SW, Albuquerque, NM 87121

CODE DATA, PREPARATORY SCHOOL PORTABLE ADDITION AND PLAY FIELD IMPROVEMENTS:

PROJECT NAME:	MARK ARMIJO CHARTER SCHOOL, ADDITION TO SCHOOL WITH NEW PORTABLE.
UPC:	101005651353110520
OWNER:	MARK ARMIJO FOUNDATION INC
OWNER ADDRESS:	6800 GONZALES RD SW, ALBUQUERQUE, NM 87121
LEGAL DESCRIPTION:	LT 150-B PLAT OF LTS 150-A & 150-B TOWN OF ATRISCO GRANTUNIT 6
ZONE ATLAS MAP:	K-10-Z
ZONE CLASSIFICATION:	NR-BP

EXECUTIVE SUMMARY FOR THE MARK ARMIJO CHARTER SCHOOL TCL PLAN:

THE PROJECT IS LOCATED AT 6800 GONZALES RD IN THE SOUTHWEST QUADRANT OF ALBUQUERQUE. GONZALES RD ABUTS THE SITE TO THE NORTH, WITH COORS RD LOCATED WEST AND AIRPORT DR SOUTH.

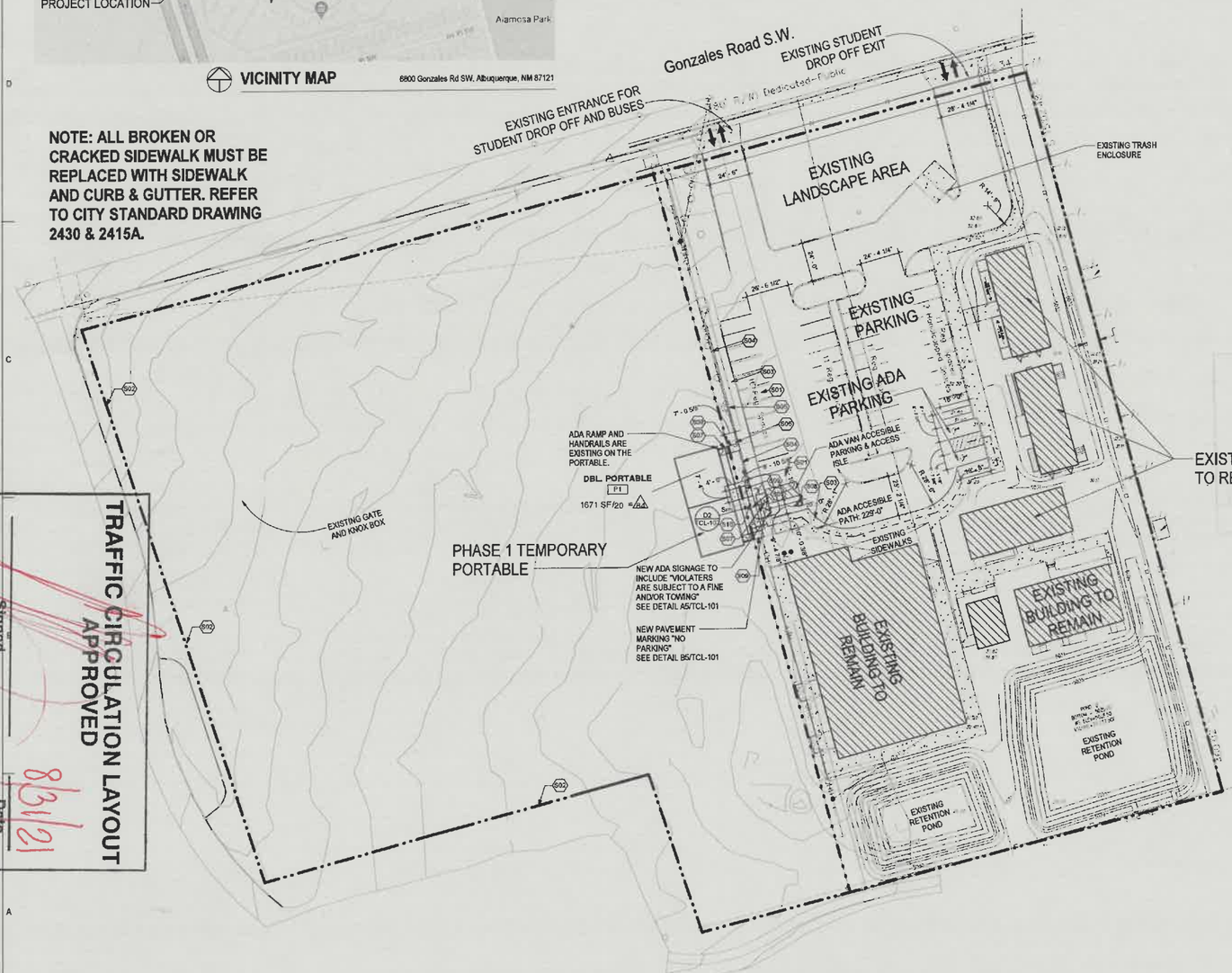
THE CHARTER SCHOOL FACILITY IS THE MAIN PERMINATE STRUCTURE LOCATED ON THE SITE. THIS PROJECT INCLUDES THE RELOCATION AND INSTALLATION OF ONE, MODULAR CLASSROOM BUIDLINGS (PORTABLE). IT WILL BE RELOCATED ON THE SITE SOUTH OF THE EXISTING ASPHALT PAVING USED FOR PARKING. RECENTLY TWO MODULAR CLASSROOMS WERE ADDED IN 2020.

TRAFFIC WOULD CONTINUE TO USE THE EXISTING SUCCESSFUL PARKING AND CIRULATION LAYOUT AS IS. TWO-WAY TRAFFIC IS USED AT EVERY DRIVE LANE POSSIBLE TO EASE IN VEHICULAR SITE ACCESS, AND PEDESTRIAN FRIENDLY PATHS ONLY CROSS THESE TRAFFIC LANES AT PERPENDICULAR ANGLES.

THERE WILL BE NO IMPACT TO ADJACET SITES. NO INCREASE IN STUDENTS, TEACHERS, PARENTS, TRAFFIC OR FUNCTIONS ARE EXPECTED AS PART OF THIS DEVELOPMENT. GONZALES AND COORS ROADWAYS ACT AS A BUFFER TO THE NORTH AND WEST OF THE SITE WITH TED GALLEGOS COMMUNITY CENTER SHARING PROPERTY LINES TO THE SOUTH. NO VARIENCES ARE BEING REQUESTED FOR THIS WORK. THIS IS AN ESTABLISHED SCHOOL FACILITY WITH EXISTING ACCESS POINTS AND AMPLE ON-SITE PARKING.

GROSS FLOOR CHANGE CALCULATIONS		
GROSS BUILDING AREA	16,545 SF	
CAFETERIA	3,324 SF	
2,268 SF / 15 NET = 151 OCC.		
PORTABLE ADDITION	1,641 SF	
GROSS BUILDING CHANGE	9.9 % CHANGE	
REQUIREMENTS (BASED ON 151 OCC)		
PARKINGS SPACES	1 SPACE FOR EA. 4 SEATS IN CAFTERIA	38
CREDITS		
10% FOR PUBLIC BUS STOP NEARBY 38*.1=4		34
ADA SPACES REQUIRED	(FOR 26 TO 35 PARKING SPACES)	2
ADA VAN SPACES	(1 FOR EA. OF 2 ADA SPACES)	1
BICYCLE SPACES	(1 SPACE FOR EA. 50 STUDENTS)	4
MOTORCYCLE SPACES	(FOR 26 TO 50 PARKING SPACES)	2
PROVIDED		
TOTAL SPACES		51
ADA SPACES PROVIDED		3
ADA VAN SPACES		2
BICYCLE RACK (EXISTING)		4
MOTORCYCLE SPACES PROVIDED		2

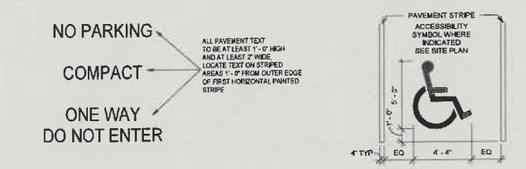
NOTE: ALL BROKEN OR CRACKED SIDEWALK MUST BE REPLACED WITH SIDEWALK AND CURB & GUTTER. REFER TO CITY STANDARD DRAWING 2430 & 2415A.



TRAFFIC CIRCULATION LAYOUT APPROVED
Signed
Date 8/31/21

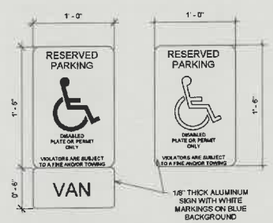
A1 TCL SITE PLAN 1" = 30'-0"

KEYNOTE LEGEND	
VALUE	DESCRIPTION
501	EXISTING ASPHALT PAVING TO REMAIN. PATCH AND REPAIR AS NECESSARY TO PERFORM NEW WORK.
502	EXISTING CHAIN LINK FENCE TO REMAIN.
503	EXISTING CONCRETE SIDEWALK TO REAMIN. PATCH AND RE-PAIR AS NECESSARY TO PERFORM NEW WORK.
504	EXISTING OVERHEAD UTILITY LINE. SEE SURVEY. SEE ELECTRICAL.
505	EXISTING TREES AND LANDSCAPING TO REMAIN. PROTECT. DAMAGE SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER.
507	NEW ADA RAMP AND LANDING BY BUILDING MANUFACTURER.
508	RESTRIPE PARKING SPACE FOR ADA ACCESSIBLE PARKING STALL.
509	NEW CONCRETE PAVED SIDEWALK SEE DETAIL D2/TCL-102.
510	NEW 40' CONCRETE PAVED SIDEWALK EXTENSION.



B5 PAVEMENT SIGNAGE 1/4" = 1'-0"

B6 PAVEMENT MARKING 1/4" = 1'-0"



A5 SIGNAGE 1 1/2" = 1'-0"

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STATE OF NEW MEXICO — 08/09/21 — SANJAY S. ENGINEER — No. 3088 — REGISTERED ARCHITECT
ARCHITECT

Mark Armijo ACADEMY

Mark Armijo Academy - Site Development Plan

CONSTRUCTION DOCUMENTS

6800 Gonzales Rd SW
Albuquerque, NM 87121

JUNE 2021

MARK	DATE	DESCRIPTION

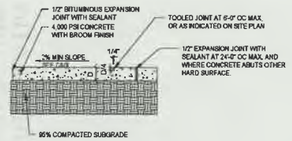
ISSUE	CONSTRUCTION
DATE	JUNE 2021
PROJECT NO	Project Number
DRAWN BY	Author
CHECKED BY	Checker

SHEET TITLE
TRAFFIC CIRCULATION LAYOUT

TCL-101

L10-D007A

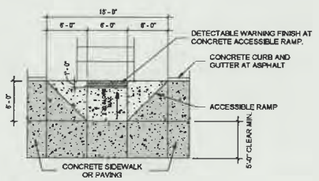
KEYNOTE LEGEND	
VALUE	DESCRIPTION
S01	EXISTING ASPHALT PAVING TO REMAIN. PATCH AND REPAIR AS NECESSARY TO PERFORM NEW WORK.
S03	EXISTING CONCRETE SIDEWALK TO REAMIN. PATCH AND REPAIR AS NECESSARY TO PERFORM NEW WORK.
S04	EXISTING OVERHEAD UTILITY LINE. SEE SURVEY. SEE ELECTRICAL.
S05	EXISTING TREES AND LANDSCAPING TO REMAIN. PROTECT. DAMAGE SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER
S07	NEW ADA RAMP AND LANDING BY BUILDING MANUFACTURER.
S08	RESTRIPE PARKING SPACE FOR ADA ACCESSIBLE PARKING STALL.
S09	NEW CONCRETE PAVED SIDEWALK SEE DETAIL D3/TCL-102.
S10	NEW APCONCRETE PAVED SIDEWALK EXTENSION.



NOTES

1. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
2. SEE SITE PLAN FOR FOR CONCRETE JOINT PATTERN.
3. VERIFY SIDEWALK LAYOUT WITH ARCHITECT PRIOR TO FORMING AND POURING CONCRETE. NO EXCEPTIONS.
4. HEAVY DUTY CONCRETE SHALL BE 6" THICK WITH 6X6X10 GA. WELDED WIRE FABRIC IN CENTER OF SLAB.
5. STANDARD DUTY CONCRETE SHALL BE 4" THICK
6. TURN DOWN EDGE AT ALL EXPOSED EDGES OF CONCRETE PAVEMENT. SEE DETAIL E1 THIS SHEET.

D1 Concrete Pavement
3/4" = 1'-0"

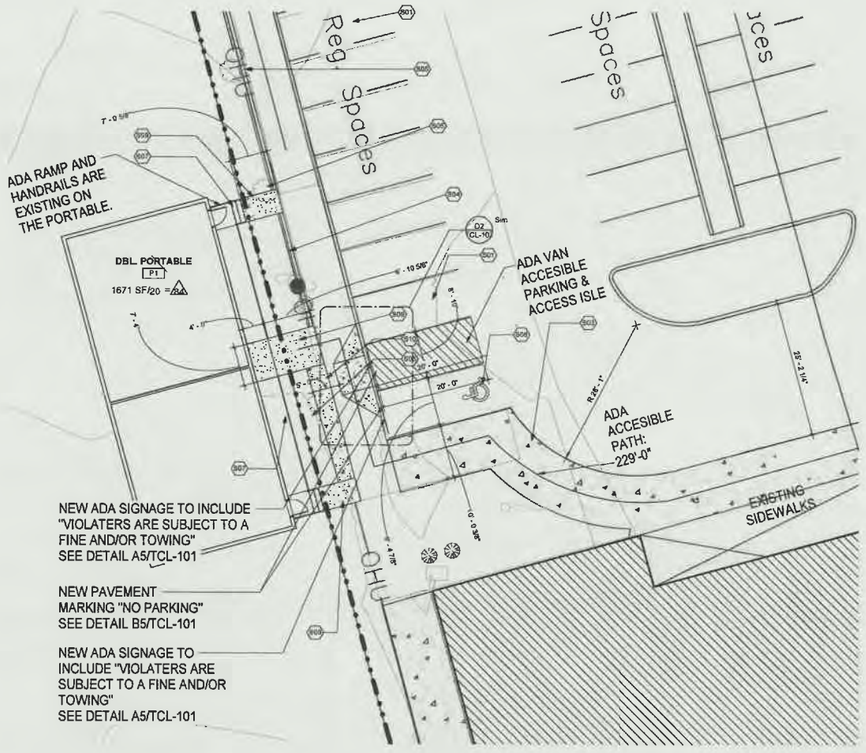


D2 CONCRETE CURB RAMP
1/8" = 1'-0"

TRAFFIC CIRCULATION LAYOUT APPROVED

Signed

8/31/21
Date



1 TCL SITE PLAN Enlarged
1" = 10'-0"

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STATE OF NEW MEXICO 08/09/21 SHAUN L. ENGINEER No. 3085 REGISTERED ARCHITECT

ARCHITECT

Mark Armijo ACADEMY

Mark Armijo Academy - Site Development Plan

CONSTRUCTION DOCUMENTS

6800 Gonzales Rd SW
Albuquerque, NM 87121

JUNE 2021

MARK	DATE	DESCRIPTION

ISSUE:	CONSTRUCTION
DATE:	DOCUMENT
PROJECT NO:	Project Number
DRAWN BY:	Author
CHECKED BY:	Checker

SHEET TITLE

TRAFFIC CIRCULATION LAYOUT

TCL-102

Mark Armijo Academy - Site Development Plan

8/30/2021 4:18:09 PM

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