

SHEET SIZE: ARCH D (24 X 36")
PLOT DATE: 11/10/2022 9:33 PM

Z:\ANTELOPE VALLEY\ANT21-01 - 555 - 7 VARIOUS SITES\ANT21-01E - LANCASTER HS\MARCH\CS COVER SHEET.DWG

GENERAL

- DIMENSIONS ARE FROM FACE OF WALL OR CENTER LINE OF COLUMNS, MULLIONS & STUDS UNLESS OTHERWISE NOTED.
- EQUIPMENT SHOWN DOTTED IS NOT IN THIS CONTRACT.
- THE CONTRACTOR SHALL REVIEW THE PLANS AND SITE AND COORDINATE ALL THE WORK REQUIRED FOR THE PROJECT.
- THE CONTRACTOR SHALL TAKE DUE NOTE THAT THE DRAWINGS IDENTIFIED AS ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING & MECHANICAL ARE FOR COORDINATION OF TRADES AND ARE NOT TO BE INTERPRETED AS EXCLUSIVE WORK ONLY. ALL TRADES ARE TO VERIFY WITH ALL DRAWINGS FOR ALL REQUIRED WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ANY AND ALL EXISTING UTILITY LINES OR STRUCTURES WITHIN AND ADJACENT TO DEMOLITION OR CONSTRUCTION AREA, WHETHER SHOWN OR NOT SHOWN HEREIN.
- THE CONTRACTOR SHALL INSPECT EXISTING SITE CONDITIONS AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY LAND DISTURBANCE. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR NON-PUBLIC UTILITY. THE CONTRACTOR SHALL REVIEW PLANS AS REQUIRED FOR COORDINATION OF THE NEW WORK WITH EXISTING CONDITIONS.
- THE CONTRACTOR SHALL OBTAIN ALL CLEARANCES REQUIRED FOR ALL WORK (DEMOLITION, RELOCATION AND NEW WORK) SUCH AS (BUT NOT LIMITED TO) REMOVAL OF STRUCTURES, TREES, TURF AREAS, WEEDS, CURBS, GUTTERS AND RELOCATION AND/OR REMOVAL OF EXISTING UTILITIES ON- AND OFF-SITE AS MAY BE REQUIRED.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND LICENSES NECESSARY, INCLUDING UTILITY FEES. THE OWNER WILL REIMBURSE THE CONTRACTOR THE ACTUAL DOCUMENTED COST OF SUCH PERMITS, LICENSES AND FEES, WITH NO OVERHEAD OR PROFIT ADDED.
- THE CONTRACTOR SHALL LEAVE THE CONSTRUCTION AREAS CLEAN AND FREE OF ALL DEBRIS. ALL SUCH DEBRIS SHALL BE LEGALLY DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- DUST SHALL BE CONTROLLED AS REQUIRED BY LOS ANGELES COUNTY DUST CONTROL POLICIES.
- NO WORK WHATSOEVER SHALL BE STARTED WITHOUT FIRST NOTIFYING THE OWNER, AND ARCHITECT. REFER TO THE PROJECT MANUAL.
- UNLESS SPECIFIED ON THE STRUCTURAL / ARCHITECTURAL DRAWINGS, ANY ALTERATION OR MODIFICATIONS TO A STRUCTURAL ELEMENT BY CUTTING, DRILLING, BORING, BRACING WELDING, ETC. SHALL HAVE WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO START OF WORK.
- ALL WORK SHALL CONFORM TO THE 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

DEMOLITION & PATCHING

- DEMOLITION INDICATED IS FOR THE CONVENIENCE OF THE CONTRACTOR AND MAY NOT INDICATE THE FULL EXTENT OF DEMOLITION REQUIRED FOR THE PERFORMANCE OF THE CONTRACT. CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE SCOPE OF DEMOLITION WORK REQUIRED.
- PATCH AND REPAIR EXISTING SURFACES AS REQUIRED DUE TO DEMOLITION OR PERFORMANCE OF NEW CONSTRUCTION. ALL NEW

WORK SHALL MATCH EXISTING IN KIND, QUALITY, AND FINISH, UNLESS NOTED OR SPECIFIED OTHERWISE.

- NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.

FIRE / LIFE SAFETY

- ALL PENETRATIONS THROUGH FIRE RESISTIVE WALL OR FLOOR ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH UBC STANDARD 7-5 (ASTM E814)
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AND OBSERVE FIRE SAFETY REGULATIONS DURING CONSTRUCTION, ALTERATIONS, DEMOLITION AND ASBESTOS REMOVAL AS NOTED IN 2019 CFC, CHAPTER 33, & CCB, CHAPTER 33.
- FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH 2019 CFC, CHAPTER 33, & CCB, CHAPTER 33.

DIVISION OF THE STATE ARCHITECT

- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE BY AN ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, T-24, C.C.R.
- A PROJECT INSPECTOR WITH A CLASS 2 CERTIFICATION FROM THE DIVISION OF THE STATE ARCHITECT, EMPLOYED BY THE SCHOOL DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT, SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, T-24 C.C.R.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, C.C.R.)
- WHENEVER DSA FINDS ANY CONSTRUCTION WORK IS BEING PERFORMED IN A MANNER CONTRARY TO THE PROVISIONS OF CALIFORNIA BUILDING CODE AND THAT WOULD COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING, THE DEPARTMENT OF GENERAL SERVICES, STATE OF CALIFORNIA, IS AUTHORIZED TO ISSUE A STOP WORK ORDER PER SECTION 4-334.1 CALIFORNIA ADMINISTRATIVE CODE (PART 1, TITLE 24, C.C.R.)
- TITLE 24, PARTS 1-5 AND 9 MUST BE KEPT ON SITE DURING CONSTRUCTION.
- ALL STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING MATERIALS INSTALLATION TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.
- THE PROJECT INSPECTOR (PI) SHALL WITNESS AND VERIFY GROUNDING.



NEW SHADE STRUCTURE AND RELATED SITE WORK
AT LANCASTER HIGH SCHOOL
ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT

GENERAL NOTES

A AB.....AGGREGATE BASE ABY.....ADJACENT ACC.....ACCESS ADJ.....ADJACENT A/C.....AIR CONDITIONING AC.....ASPHALTIC CONCRETE ALT.....ALTERNATE ALUM.....ALUMINUM AB.....ANCHOR BOLT ANOD.....ANODIZED ARCH.....ARCHITECT	G GA.....GAGE/GAUGE GALV.....GALVANIZE GC.....GENERAL CONTRACTOR GLB.....GLU LAM BEAM/GLASS BLOCK GB.....GRADE BEAM/GRAB BAR GYP BD.....GYPSUM WALL BOARD	P PL.....PLATE POG.....POINT OF CONNECTION PA.....PLANTER AREA PSI.....POUNDS PER SQUARE INCH P.....PROPERTY LINE PROP.....PROPOSED PH.....PANIC HARDWARE PVC.....POLYVINYL CHLORIDE (PIPE)
B BM.....BENCHMARK / BEAM BTN.....BETWEEN BTN.....BITUMINOUS BLKG.....BLOCKING BD.....BOARD BLDG.....BUILDING	H HDR.....HEADER HVAC.....HEATING, VENTILATING AND AIR CONDITIONING HORIZ.....HORIZONTAL HB.....HOSE BIB HW.....HOT WATER HEATER HSS.....HOLLOW STRUCTURAL SECTION	Q QT.....QUARRY TILE
C CAB.....CABINET CPT.....CARPET CI.....CAST IRON CB.....CATCH BASIN CLS.....CEILING CL.....CENTERLINE CT.....CERAMIC TILE CLN.....CHAIN LINK CLR.....CLEAR COL.....COLUMN CMU.....CONCRETE MASONRY UNIT CONT.....CONTINUOUS CJ/CJT.....CONTROL JOINT C.C.R.....CA CODE OF REGULATIONS	I INT.....INTERIOR INV.....INVERT	R RPA.....RAISED PLANTER AREA RAD.....RADIUS REF.....REFRIGERATOR REG.....REGISTER RET.....RETURN RAG.....RETURN AIR GRILL REV.....REVISION RD.....ROOF DRAIN RM.....ROOM RO.....ROUGH OPENING
D DEMO.....DEMOLISH / DEMOLITION DIA.....DIAMETER DNG.....DRAWING D.S.A.....DEPT. OF THE STATE ARCHITECT DF.....DRINKING FOUNTAIN/DOUGLAS FIR	J JT.....JOINT JST.....JOIST	S SCHED.....SCHEDULE SEC.....SECTION SHT.....SHEET SIM.....SIMILAR SPEC.....SPECIFICATION SQ.....SQUARE SS.....STAINLESS STEEL STD.....STANDARD STL.....STEEL STR.....STORAGE SD.....STORM DRAIN STRUCT.....STRUCTURAL
E (E).....EXISTING ELEC.....ELECTRICAL ELEV.....ELEVATION EXT.....EXTERNAL EMWF.....ELECTRICALLY WELDED WIRE FABR.....FABRIC EJ.....EXPANSION JOINT EN.....END NAIL	K KIT.....KITCHEN	T TEL.....TELEPHONE TV.....TELEVISION TJ.....TOOL JOINT T&S.....TONGUE & GROOVE T.S.....TOP OF SHEATHING TYP.....TUBE STEEL TYP.....TYPICAL
F FF.....FINISH FLOOR FA.....FIRE ALARM FRP.....FIBERGLASS REINFORCED PANELS FE.....FIRE EXTINGUISHER F.E.C.....FIRE EXTINGUISHER CABINET FHMS.....FLAMEHEAD MACHINE SCREEN FHMS.....FLAMEHEAD WOOD SCREEN FD.....FLOOR DRAIN FTS.....FOOTING FND.....FOUNDATION FUR/FURR.....FURRING FS.....FLOOR SINK / FINISH SURFACE	L LB.....LAGBOLT LAM.....LAMINATED LAV.....LAVATORY LTL.....LINTEL	U UG.....UNDERCUT US.....UNDERGROUND U.N.O.....UNLESS NOTED OTHERWISE
	M MB.....MACHINE BOLT MH.....MANHOLE MFR.....MANUFACTURER MAS.....MASONRY MO.....MASONRY OPENING MAX.....MAXIMUM MECH.....MECHANICAL MEMB.....MEMBER MIN.....MINIMUM OR MINUTE MISC.....MISCELLANEOUS MOD.....MODULE (LAR)	V VERT.....VERTICAL VGT.....VINYL COMPOSITION TILE
	N NRC.....NOISE REDUCTION COEFFICIENT NON.....NON NIC.....NOT IN CONTRACT NTS.....NOT TO SCALE NO.....NUMBER (N).....NEA	W WC.....WATER CLOSET W.....WITH W/O.....WITHOUT WI.....WROUGHT IRON
	O O/C.....ON CENTER OPP.....OPPOSITE OD.....OUTSIDE DIAMETER OHB.....OVAL-HEAD MACHINE BOLT OHW.....OVAL-HEAD WOOD SCREW OH.....OVERHEAD OFC.....OWNER FURNISHED CONTRACTOR INSTALLED	

ABBREVIATIONS

XDETAIL REFERENCE	X-XXDETAIL REFERENCE
X-XXSECTION REFERENCE	XXXSHEET NUMBER
XXXDOOR NUMBER OR TYPE.	XXXWINDOW NUMBER OR TYPE
X-XKEY NOTE NUMBER WHEN USED REFERS TO SAME SHEET UNLESS NOTED OTHERWISE	XDOOR SIGNAGE, SEE LEGEND OR FLOOR PLAN
NIN.I.C. STANDARD CASEWORK	XINTERIOR ELEVATION X-XXDETAIL REFERENCE CSHEET NUMBER
XXXEQUIPMENT NUMBER OR TYPE.	XXXPARKING COUNT
XXXFLUSH TRANSITION	XXXDROP TRANSITION, SEE PLAN FOR DROP DEPTH
XXXREVISION NUMBER	ROOM NAMEROOM NAME XXXROOM NUMBER
XXXEXISTING CHAIN LINK FENCING	XXXNEW CHAIN LINK FENCING
XXXDEMO CHAIN LINK FENCING	XXXEXISTING TUBE STEEL FENCING
XXXNEW TUBE STEEL FENCING	XXXDEMO TUBE STEEL FENCING
XXXPATH OF TRAVEL	

SYMBOLS

XDETAIL REFERENCE	X-XXDETAIL REFERENCE
X-XXSECTION REFERENCE	XXXSHEET NUMBER
XXXDOOR NUMBER OR TYPE.	XXXWINDOW NUMBER OR TYPE
X-XKEY NOTE NUMBER WHEN USED REFERS TO SAME SHEET UNLESS NOTED OTHERWISE	XDOOR SIGNAGE, SEE LEGEND OR FLOOR PLAN
NIN.I.C. STANDARD CASEWORK	XINTERIOR ELEVATION X-XXDETAIL REFERENCE CSHEET NUMBER
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XXXDEMO CHAIN LINK FENCING	XXXEXISTING TUBE STEEL FENCING
XXXNEW TUBE STEEL FENCING	XXXDEMO TUBE STEEL FENCING
XXXPATH OF TRAVEL	

TITLE 24

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020*

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*

2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR

2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR

2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2016 ASME A17.1/CSA B44-19 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2019 CBC PART 2 CH 35)

NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

APPLICABLE NFPA STD. (PARTIAL LIST)

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED).....2016 EDITION

NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED).....2016 EDITION

NFPA 17 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS.....2011 EDITION

NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS.....2011 EDITION

NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.....2016 EDITION

NFPA 22 - STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION.....2015 EDITION

NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED).....2016 EDITION

NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED).....2016 EDITION

NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES.....2016 EDITION

NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED).....2015 EDITION

UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT.....2009 (R2010)

UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES.....2009 EDITION

UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS.....1999 EDITION

UL 1911 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED.....2002 (R2010)

ICC 300 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS.....2011 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SBM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

*ALL PARTS OF THE 2019 CALIFORNIA BUILDING CODE BECAME EFFECTIVE JANUARY 1, 2020 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2019 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JANUARY 8, 2019 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 8, 2019.

CODE REFERENCES

SITE DEMOLITION INCLUDES:
DEMO OF EXISTING ASPHALT AND CONCRETE PAVING.

NEW SITE WORK INCLUDES:
NEW ASPHALT AND CONCRETE PAVING FOR PATH OF TRAVEL UPGRADES.
NEW CHAIN LINK FENCING AND ACCESSIBLE GATES.

NEW BUILDING '3.5.11', TYPE AND SQUARE FOOTAGE:
NEW 40'X60' SHADE STRUCTURE.

FUNDING SOURCE:
ESSER II AND ESSER III

SCOPE OF WORK

PROJECT ADDRESS:
LANCASTER HIGH SCHOOL
44701 32ND ST N,
LANCASTER, CA 93536

PROJECT OWNER:
ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT
44811 NORTH SIERRA HIGHWAY
LANCASTER, CA 93534
(661) 952-2287
CONTACT:
MAT HAVENS

PROJECT ARCHITECT:
FF&J ARCHITECTS INC.
19153 TOWN CENTER DR., SUITE 101
APPLE VALLEY, CA 92308
(760) 240-6211
PROJECT MANAGER:
RICK SIMPER
ARCHITECT OF RECORD:
GINO BASTIANON

CIVIL:
JT ENGINEERING
39936 N. AGUA DULCE CYN. RD. #103
AGUA DULCE, CA 91390
(661) 268-8899
CONTACT:
JOHN JACOB

ELECTRICAL:
A&F ENGINEERING GROUP, INC.
8920 BASELINE RD., SUITE C
RANCHO CUCAMONGA, CA 91701
(909) 941-3008
CONTACT:
LUIS E. FLORES

PROJECT DIRECTORY

PROJECT ADDRESS: LANCASTER HIGH SCHOOL 44701 32ND ST N, LANCASTER, CA 93536	PROJECT OWNER: ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT 44811 NORTH SIERRA HIGHWAY LANCASTER, CA 93534 (661) 952-2287 CONTACT: MAT HAVENS
PROJECT ARCHITECT: FF&J ARCHITECTS INC. 19153 TOWN CENTER DR., SUITE 101 APPLE VALLEY, CA 92308 (760) 240-6211 PROJECT MANAGER: RICK SIMPER ARCHITECT OF RECORD: GINO BASTIANON	CIVIL: JT ENGINEERING 39936 N. AGUA DULCE CYN. RD. #103 AGUA DULCE, CA 91390 (661) 268-8899 CONTACT: JOHN JACOB
ELECTRICAL: A&F ENGINEERING GROUP, INC. 8920 BASELINE RD., SUITE C RANCHO CUCAMONGA, CA 91701 (909) 941-3008 CONTACT: LUIS E. FLORES	

Sheet List Table

SHEET NUMBER	SHEET TITLE
GENERAL	
CS	COVER SHEET
CIVIL	
C-1	GRADING IMPROVEMENT PLAN
C-2	GRADING IMPROVEMENT PLAN
ARCHITECTURAL	
AO-1	LOCAL FIRE AUTHORITY REVIEW
A-1	OVERALL SITE PLAN
A-2	ENLARGED SITE PLANS
A-3	ENLARGED ACCESSIBLE PARKING
AD-1	DETAILS
ELECTRICAL	
EO-1	GENERAL NOTES SYMBOL LIST AND SITE PLAN
EO-2	ELECTRICAL DETAILS
EI-1	DEMOLITION AND REMODEL POWER SITE PLAN
E2-1	ELECTRICAL SPECIFICATIONS SECTION 26 00 00
SHADE STRUCTURE	
P.C. T-1-0	P.C. TITLE SHEET
P.C. T-2-0	SHADE STRUCTURE PROVIDED BY OWNER AND INSTALLED BY SHADE STRUCTURE MANUFACTURER
P.C. T-2-1	PRODUCT INFORMATION
24-1-1000	DETAILS
24-1-1001	DETAILS
24-3-2000	REACTIONS

TOTAL SHEETS: 18

Statement of General Conformance
FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 03-122266 File No. 19-H2)

The drawings or sheets listed on the cover or index sheet FOR SHADE STRUCTURE
 This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

- design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
- coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1, (Title 24, Part 1, Section 4-317 (b))

I find that: All drawings or sheets listed on the cover or index sheet FOR SHADE STRUCTURE
 This drawing or page

I am in general conformance with the project design intent, and
 I have coordinated with the project plans and specifications.

I am in general conformance with the project design intent, and
 I have coordinated with the project plans and specifications.

10/28/2022
Signature: *[Signature]* Date: 10/28/2022
Architect or Engineer designated to be in general responsible charge: GINO C. BASTIANON
Print Name: GINO C. BASTIANON
C-27564 License Number: 6/23 Expiration Date

Signature: _____ Date: _____
Architect or Engineer delegated responsibility for this portion of the work: _____
Print Name: _____
License Number: _____ Expiration Date: _____

SHEET INDEX

WIND RISK CATEGORY II ASCET-16 15 MPH EXPOSURE FACTOR C	FLOOD DESIGN 1. FEMA FIRM PANEL #: 06031C0410F 2. EFFECTIVE DATE: 9/26/2008 3. FLOOD ZONE: ZONE X
SEISMIC RISK CATEGORY II SITE CLASS D S ₀ 1.5 S ₁ 0.6 S _{1.5} 1.8 S ₂ *NULL S ₃ 1.2 S _{3.1} *NULL S _{3.2} *NULL S _{3.3} *NULL F _A *NULL F _V 0.888 C _{R1} 0.881 P _{GA} 0.618 P _{GA1} 1.2 P _{GA2} 0.741 I _L 1.2 S ₁ RT 1.646 S ₁ UH 1.909 S ₁ D 1.5 S ₁ T 0.706 S ₁ UH 0.801 S ₁ D 0.6 P _{GA} D 0.618	GEOTECH SITE IS NOT WITHIN A MAPPED LIQUEFACTION HAZARD ZONE

*SEE SECTION 11.4.8

P.T.N: 64246-102

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122266 INC:
REVIEWED FOR
DATE: 04/18/2023

REVISIONS BY

FF&J
Frick, Frick & Jetté Architects
19153 Town Center Dr., Suite 101
Apple Valley, CA 92308
(760) 240-6211 www.fff-arch.com
SERVING CLIENTS IN CALIFORNIA SINCE 1946
Architecture • Planning • Landscape Architecture

ENGINEER

ARCHITECT

LICENSED ARCHITECT
GINO C. BASTIANON
NO. 027546
REN. 6-2023
STATE OF CALIFORNIA

NEW SHADE STRUCTURE AND RELATED SITE WORK
AT LANCASTER HIGH SCHOOL
44701 32ND ST N, LANCASTER, CA 93536

COVER SHEET

DATE: November, 2022

DRAWN: _____

JOB: ANT21-01e

SHEET: _____

CS

BID SET

SHEET SIZE: ARCH D (24"x36")
PLOT DATE: 4/22/2022 8:00 AM

GENERAL GRADING NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO LISTED BUILDING CODES, ALL APPLICABLE STATE AND MUNICIPAL ORDINANCES, CONTRACT DOCUMENTS, SPECIFICATIONS AND ALL OTHER RULES AND REGULATIONS HAVING JURISDICTION OVER THIS PROJECT. IN THE EVENT THAT TWO OR MORE REGULATIONS CONFLICT, THE MORE RESTRICTIVE SHALL GOVERN.
- THE CONTRACTOR AND ALL ITS SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR REVIEWING, UNDERSTANDING AND FOLLOWING ALL GENERAL NOTES THROUGHOUT THE PROJECT. ALL ITEMS STATED UNDER GENERAL NOTES ARE PART OF THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR INCLUDING AND TAKING INTO CONSIDERATION ALL GENERAL NOTES AND HOW IT AFFECTS THEIR CONSTRUCTION, SEQUENCING AND/OR BID. ANY QUESTIONS REGARDING GENERAL NOTES THROUGHOUT THE PROJECT SHALL BE ADDRESSED BY MEANS OF REQUEST FOR INFORMATION DURING THE BID PHASE. ANY ITEMS THAT HAVE NOT BEEN ACCOUNTED FOR AFTER AWARD OF BID THAT ARE STATED IN GENERAL NOTES, SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- DETAILS DESIGNATED AS TYPICAL ON DETAIL SHEETS ARE APPLICABLE THROUGHOUT PROJECT WHEREVER THE DESCRIBED CONDITION OCCURS AND MAY OR MAY NOT BE SPECIFICALLY REFERENCED ON ARCHITECTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THESE DETAILS AND UNDERSTANDING EXTENT OF THEIR APPLICATION PRIOR TO PERFORMING WORK.
- DIMENSIONS: ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE. ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL EXISTING TO REMAIN EQUIPMENT, STRUCTURES, FINISHES, AND SERVICES WHICH MAY BE DISTURBED THROUGH CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL EXERCISE CARE TO PROTECT ANY EXISTING ITEMS THAT MAY BE DAMAGED THROUGH CONSTRUCTION ACTIVITIES. IF SUCH DOCUMENTS WERE DISTURBED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND RETURN THE DAMAGED OR DISTURBED ITEMS TO THEIR PREVIOUS CONDITION AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF ALL NEW CONSTRUCTION ON THE SITE.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & SITE CONDITIONS BEFORE STARTING WORK. SHOULD A DISCREPANCY APPEAR IN THE CONTRACT DOCUMENTS OR BETWEEN THE CONTRACT DOCUMENTS & EXISTING CONDITIONS, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION ON HOW TO PROCEED.
- THE CONTRACTOR SHALL CONFINE HIS OPERATION ON THE SITE TO AREAS PERMITTED BY OWNER.
- THE JOBSITE SHALL BE MAINTAINED IN A CLEAN, ORDERLY CONDITION FREE OF DEBRIS AND LITTER AND SHALL NOT BE UNREASONABLY ENCUMBERED WITH ANY MATERIALS OR EQUIPMENT. EACH SUBCONTRACTOR IMMEDIATELY UPON COMPLETION OF EACH PHASE OF HIS WORK SHALL REMOVE ALL TRASH AND DEBRIS AS A RESULT OF HIS OPERATION.
- UPON COMPLETION OF EACH PHASE OF THE WORK AND AT SUCH TIMES AS DIRECTED BY THE OWNER, REMOVE ALL SURPLUS MATERIAL, TOOLS AND DEBRIS AND LEAVE THE SITE IN A CLEAN AND NEAT CONDITION.
- THE CONTRACTOR SHALL DO ALL CUTTING, FITTING, OR PATCHING OF HIS WORK THAT MAY BE REQUIRED TO MAKE ITS SEVERAL PARTS FIT TOGETHER PROPERLY & SHALL NOT ENDANGER ANY OTHER WORK BY CUTTING, EXCAVATING, OR OTHERWISE ALTERING THE TOTAL WORK OR ANY PART OF IT. ALL PATCHING, REPAIRING AND REPLACING OF MATERIALS AND SURFACES, CUT OR DAMAGED IN EXECUTION OF WORK, SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL, UPON COMPLETION, MATCH SURROUNDING SIMILAR SURFACES.
- WORK SHALL BE PERFORMED ACCORDING TO EDITION OF THE STANDARD SPECIFICATION AND PLANS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK AND S.P.P.W.C.), THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE AND CITY CODE REQUIREMENTS.
- NO WORK SHALL BE STARTED WITHOUT A PRE-CONSTRUCTION MEETING WITH THE OWNER AND INSPECTOR OF RECORD.
- THE CONTRACTOR SHALL PROVIDE FOR CONTRIBUTORY DRAINAGE AT ALL TIMES AND TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES AND IMPROVEMENTS FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK.
- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE CIVIL ENGINEER.
- IMPORTANT NOTICE -- SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE ANY "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT TOLL FREE @ 1-800-422-4133, TWO WORKING DAYS BEFORE YOU DIG.
- ANY IMPROVEMENT(S) TO BE CONSTRUCTED WITHIN PUBLIC RIGHT-OF-WAY WILL REQUIRE SEPARATE CONSTRUCTION PERMIT AND INSPECTION FROM THE GOVERNING AGENCY(IES). CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL APPLICABLE PERMITS AND PAYING ANY REQUIRED FEES.
- FILLS SHALL BE COMPACTED THROUGHOUT TO AT LEAST 90% OF MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D 1557.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ALL GRADE STAKES UNTIL AUTHORIZED BY SURVEYOR TO REMOVE.
- CONTRACTOR SHALL RESTORE LIKE FOR LIKE, TO THE SATISFACTION OF THE OWNER/ARCHITECT, ALL AREAS DAMAGED OR DISTURBED AS A RESULT OF WORK PERFORMED PURSUANT TO THESE PLANS AT HIS/HERS OWN EXPENSE.
- FIELD DENSITY MAY BE DETERMINED BY THE NUCLEAR DENSITY METHOD A.S.T.M. D2922 & D3017 PROVIDED NOT LESS THAN 10% OF THE REQUIRED DENSITY TESTS UNIFORMLY DISTRIBUTED ARE BY THE SAND-CONE METHOD. THE METHOD OF DETERMINING FIELD DENSITY AND LOCATION AND APPROXIMATE ELEVATION SHALL BE SHOWN IN THE COMPACTION REPORT. OTHER METHODS MAY BE USED IF RECOMMENDED BY THE SOILS ENGINEER AND APPROVED IN ADVANCE BY THE CITY ENGINEER.
- CRUSHED AGGREGATE BASE MATERIAL SHALL CONFORM TO SUBSECTION 200-2.2 OF STANDARD SPECIFICATIONS AND SHALL BE COMPACTED TO 95% RELATIVE COMPACTION USING MECHANICAL COMPACTING EQUIPMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES WHETHER SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PUBLIC AND PRIVATE PROPERTY INSOFAR AS IT MAY BE AFFECTED BY THESE OPERATIONS. ALL COSTS FOR PROTECTING, REMOVING, AND RESTORING EXISTING IMPROVEMENTS SHALL BE BORNE BY THE CONTRACTOR.
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE IN EFFECT AT ALL TIMES.
- THE CONTRACTOR SHALL VERIFY ALL JOINT ELEVATIONS PRIOR TO THE REMOVAL OF PAVEMENT, CURB, GUTTER, SIDEWALK AND/OR SLOPE GRADING. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO REMOVALS WITHIN THE AREA OF THE DISCREPANCIES.
- DUST SHALL BE CONTROLLED BY WATERING TO THE SATISFACTION OF THE INSPECTOR.
- WHERE THE IRRIGATION SYSTEM IN CONFLICT WITH NEW WORK NEEDS TO BE RELOCATED OR REPLACED, CONTRACTOR SHALL COORDINATE THE WATER SHUT OFF OR ANY ELECTRICAL RELATED WORK WITH OWNER 48 HOURS PRIOR COMMENCING THE WORK.

GENERAL GRADING NOTES

- ALL EXPOSED P.C.C. CORNERS SHALL BE ROUNDED WITH 1/2" RADIUS.
- ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE APPROVED BY THE BUILDING OFFICIAL OR A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE BUILDING OFFICIAL UPON REQUEST.
- CONTRACTOR TO CALCULATE HIS/HER OWN EARTHWORK QUANTITIES FOR BIDDING PURPOSES.
- FOR JOINTS AT NEW CURB AND SIDEWALK REFER TO S.P.P.W.C. STD. PLAN NO. 112-2.
- IF WORK IS COMMENCED DURING RAINY SEASON, CONTRACTOR SHALL SATISFY CITY EROSION CONTROL REQUIREMENTS AND INSTALL APPROPRIATE BMPs.

BEST MANAGEMENT PRACTICES (BMPs) FOR CONSTRUCTION ACTIVITIES

STORM WATER POLLUTION CONTROL REQUIREMENTS FOR CONSTRUCTION ACTIVITIES;
MINIMUM WATER QUALITY PROTECTION REQUIREMENTS FOR ALL DEVELOPMENT CONSTRUCTION PROJECTS

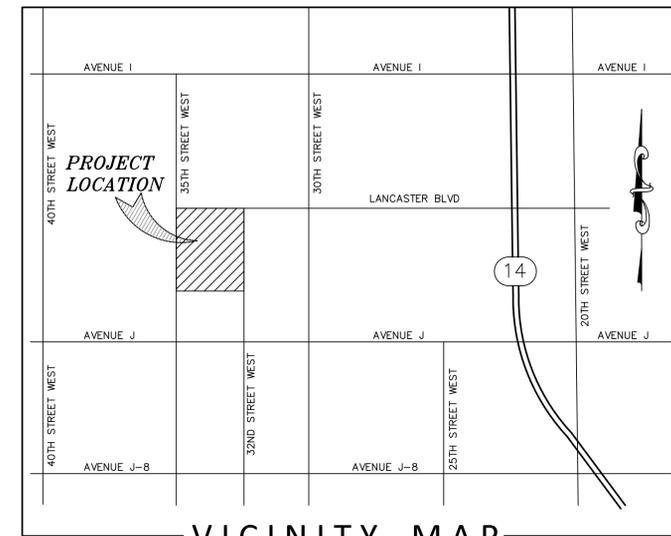
THE FOLLOWING IS INTENDED AS MINIMUM NOTES OR AS AN ATTACHMENT FOR BUILDING AND GRADING PLANS AND REPRESENT THE MINIMUM STANDARDS OF GOOD HOUSEKEEPING THAT MUST BE IMPLEMENTED ON ALL CONSTRUCTION SITES REGARDLESS OF SIZE.

- EVERY EFFORT SHALL BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORMWATER FROM THE PROJECT SITE AT ALL TIMES.
- ERODED SEDIMENTS AND OTHER POLLUTANTS SHALL BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS SHALL BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS SHALL BE STORED IN ACCORDANCE WITH THEIR LISTING AND SHALL NOT CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS SHALL BE PROTECTED FROM THE WEATHER. SPILLS SHALL BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS SHALL NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- EXCESS OR WASTE CONCRETE SHALL NOT BE WASHED INTO THE PUBLIC RIGHT-OF-WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- TRASH AND CONSTRUCTION-RELATED SOLID WASTES SHALL BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC RIGHT-OF-WAY. ACCIDENTAL DEPOSITIONS SHALL BE SWEEP UP IMMEDIATELY AND SHALL NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- ANY SLOPES WITH DISTURBED SOILS OR DENuded OF VEGETATION SHALL BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
- THE FOLLOWING BMPs AS OUTLINED IN, BUT NOT LIMITED TO, THE "BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORMWATER QUALITY TASK FORCE, SACRAMENTO, CALIFORNIA", THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTORS).

EROSION CONTROL	TC3 - ENTRANCE / OUTLET TIRE WASH
EC1 - SCHEDULING	NON-STORMWATER MANAGEMENT
EC2 - PRESERVATION OF EXISTING VEGETATION	NS1 - WATER CONSERVATION PRACTICES
EC3 - HYDRAULIC MULCH	NS2 - DEWATERING OPERATIONS
EC4 - HYDROSEEDING	NS3 - PAVING AND GRINDING OPERATIONS
EC5 - SOIL BINDERS	NS4 - TEMPORARY STREAM CROSSING
EC6 - STRAW MULCH	NS5 - CLEAR WATER DIVERSION
EC7 - GEOTEXTILES & MATS	NS6 - ILLIOTT CONNECTION / DISCHARGE
EC8 - WOOD MULCHING	NS7 - POTABLE WATER / IRRIGATION
EC9 - EARTH DIKES AND DRAINAGE SWALES	NS8 - VEHICLE AND EQUIPMENT CLEANING
EC10 - VELOCITY DISSIPATION DEVICES	NS9 - VEHICLE AND EQUIPMENT FUELING
EC11 - SLOPE DRAINS	NS10 - VEHICLE AND EQUIPMENT MAINTENANCE
TEMPORARY SEDIMENT CONTROL	NS11 - PILE DRIVING OPERATIONS
SE1 - SILT FENCE	NS12 - CONCRETE CURING
SE2 - SEDIMENT BASIN	NS13 - CONCRETE FINISHING
SE3 - SEDIMENT TRAP	NS14 - MATERIAL AND EQUIPMENT USE
SE4 - CHECK DAM	NS15 - DEMOLITION ADJACENT TO WATER
SE5 - FIBER ROLLS	NS16 - TEMPORARY BATCH PLANTS
SE6 - GRAVEL BAG BERM	WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL
SE7 - STREET SWEEPING AND VACUUMING	WM1 - MATERIAL DELIVERY AND STORAGE
SE8 - SANDBAG BARRIER	WM2 - MATERIAL USE
SE9 - STRAW BALE BARRIER	WM3 - STOCKPILE MANAGEMENT
SE10 - STORM DRAIN INLET PROTECTION	WM4 - SPILL PREVENTION AND CONTROL
WIND EROSION CONTROL	WM5 - SOLID WASTE MANAGEMENT
WE1 - WIND EROSION CONTROL	WM6 - HAZARDOUS WASTE MANAGEMENT
EQUIPMENT TRACKING CONTROL	WM7 - CONTAMINATION SOIL MANAGEMENT
TC1 - STABILIZED CONSTRUCTION ENTRANCE/EXIT	WM8 - CONCRETE WASTE MANAGEMENT
TC2 - STABILIZED CONSTRUCTION ROADWAY	WM9 - SANITARY/SEPTIC WASTE MANAGEMENT
	WM10 - LIQUID WASTE MANAGEMENT

LEGEND (WHERE APPLICABLE)

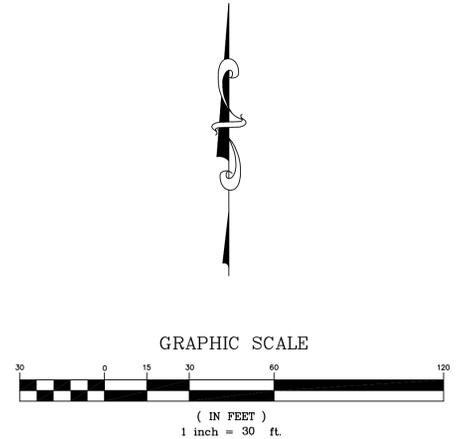
XX.XX	EXISTING SPOT ELEVATION	AP	ANGLE POINT	FS	FINISH SURFACE
	BUILDING LINE	BC	BEGINNING OF CURVE	GB	GRADE BREAK
	EX. CURB & GUTTER	BLDG	BUILDING	GS	GROUND SHOT
	EX. CONCRETE PAVING	CL	BOTTOM OF X CENTER LINE	GV	GAS VALVE
	EX. CHAIN LINK FENCE	CC	CONCRETE CORNER	HP	HIGH POINT
	EX. W FENCE	CE	CONCRETE EDGE	RSR	RISER
	NEW CHAIN LINK FENCE	CONC	CONCRETE	SCRL	SCORE LINE
	EX. SIGN	DI	DROP INLET DRAIN	SDMH	STORM DRAIN MANHOLE
	TEMPORARY BENCHMARK	EC	END OF CURVE	SGN	SIGN POST
		EG	EDGE OF GUTTER	SMH	SEWER MANHOLE
		ELEC	ELECTRICAL	STRP	STRIPING
		EP	EDGE OF PAVEMENT	TC	TOP OF CURB
		EPB	ELECTRICAL PULL BOX	TCC	TOP OF CURB CORNER
		EX.	EXISTING	TD	TRUNCATED DOMES
		FCE	CHAINLINK FENCE	TW	TOP OF WALL
		FF	FINISH FLOOR	TX	TOP OF X
		FH	FIRE HYDRANT	VL	VAULT
		FL	FLOW LINE	WM	WATER METER
		FW	FACE OF WALL	WV	WATER VALVE
				PB	FULL BOX



KEY NOTES

- SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT.
- NEW 5" THICK P.C.C. (3000 PSI COMPRESSIVE STRENGTH) WITH THICKENED EDGE WHERE SHOWN (SEE SECTION A-A AND B-B) REINFORCED WITH #3 REBARS AT 18" ON CENTER BOTH WAYS, PLACED ON MIN. 12" THICK SUBGRADE SOIL COMPACTED TO MIN. 90% OF THE MAXIMUM DENSITY PER ASTM D1557.
- COLD MILL EXISTING A.C. PAVING WITHIN THE AREA SHOWN TO A DEPTH OF 1.5" AND CONSTRUCT NEW ASPHALT CONCRETE PAVING OF VARIABLE THICKNESS, 1.5" MINIMUM, TO TRANSITION FROM NEW CONSTRUCTION TO JOIN EXISTING.
- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT AND RECONSTRUCT WITH A MAXIMUM SLOPE OF 2% ADJUST EXISTING CLEANOUT/INLET TO NEW GRADE. EXTEND LIMIT OF REMOVAL AND RECONSTRUCTION TO NEAREST EXPANSION JOINTS.
- SHADE STRUCTURE BUILDING PER ARCHITECTURAL DRAWINGS.
- INSTALL CHAINLINK FENCE AND GATE PER ARCHITECTURAL DRAWINGS
- NEW STRIPING PER ARCHITECTURAL DRAWINGS.
- ADA PARKING SIGNS PER ARCHITECTURAL DRAWINGS.
- REMOVE EXISTING WHEELSTOPS AND REPLACE WITH NEW IF DAMAGED PER OWNER DIRECTION.
- FURNISH AND INSTALL TRUNCATED DOMES DETECTABLE WARNING 36" IN DEPTH, PLACED 6" FROM THE EDGE OF THE CURB RAMP (WHERE APPLICABLE) PER 11B-705.1.2.2. TRUNCATED DOMES SHALL COMPLY WITH CBC 11B-705.1 FOR DOME SIZE AND SPACING, COLOR AND CONTRAST, AND RESILIENCY.
- CONTRACTOR TO CLEAN AND CLEAR EXISTING ASPHALT PAVEMENT CRACKS EXCEEDING 1/4" AND FILL WITH SLURRY SEAL WITHIN LIMITS OF MARKED CROSSING AND UP TO 24" BEYOND.

NOTE: DISPOSE OF ALL REMOVED MATERIALS AND CONSTRUCTION WASTE OFF-SITE AND IN ACCORDANCE WITH APPLICABLE LOCAL CODES.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122266 INC:
REVIEWED FOR
SS FLS ACS
DATE: 04/18/2023

REVISIONS	BY

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Phone: (951) 240-2800 Fax: (951) 240-1906
www.jengineering.com

ENGINEER

ARCHITECT

PROJECT: NEW SHADE STRUCTURE AND A.D.A. PATH-OF-TRAVEL MITIGATION LANCASTER HIGH SCHOOL 44701 32ND STREET WEST LANCASTER, CA 93536
SHEET NAME: GRADING IMPROVEMENT PLAN

DATE:	02/25/2022
DRAWN:	RM
JOB:	JT2316
SHEET:	C-1

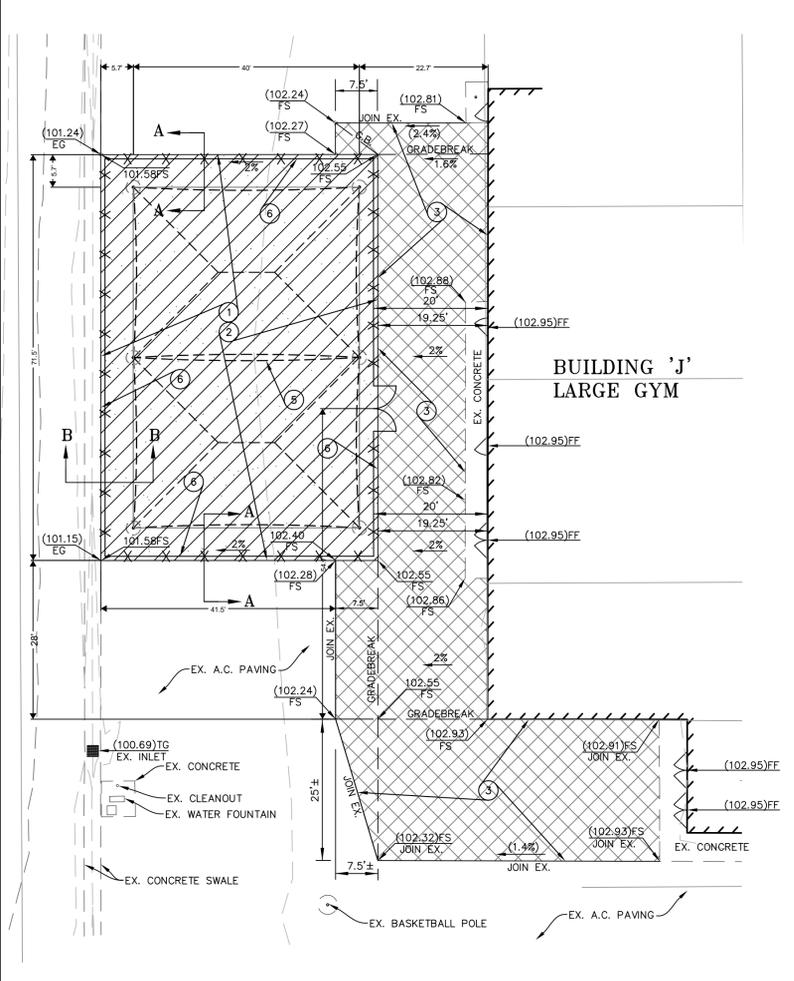
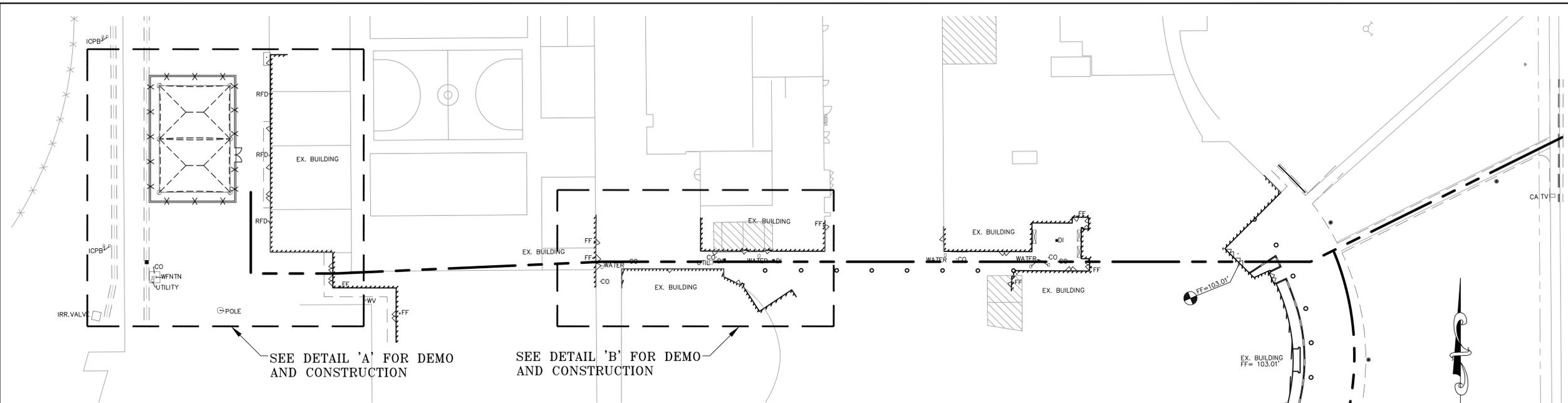
C-1
BID SET

LANCASTER HIGH SCHOOL

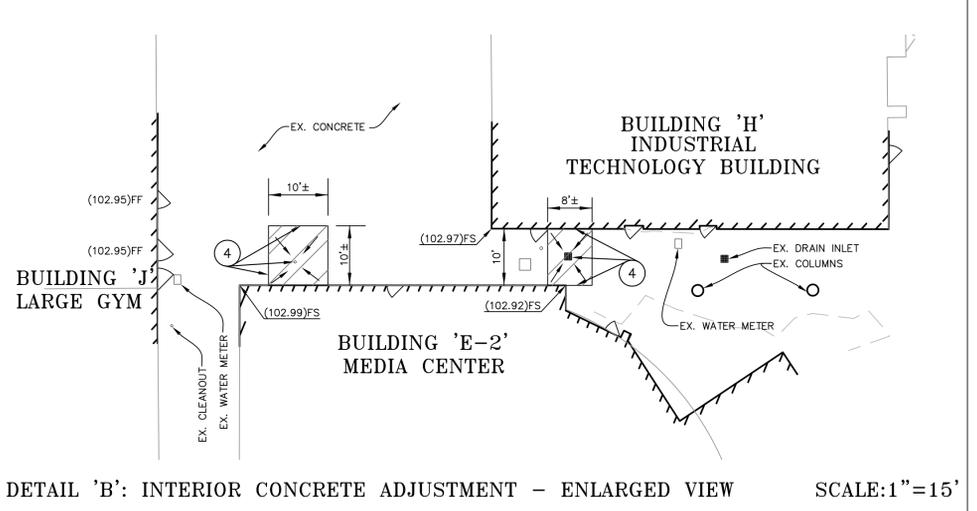
N:\2016 AVJHD SHADE STRUCTURE 7 SITES FFA\LANCASTER HS\LANCASTER_HS_GRADING.DWG

811
KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.
DIAL TOLL FREE
811
AT LEAST TWO DAYS
BEFORE YOU DIG.
UNDERGROUND SERVICE ALERT (USA)
OF SOUTHERN CALIFORNIA

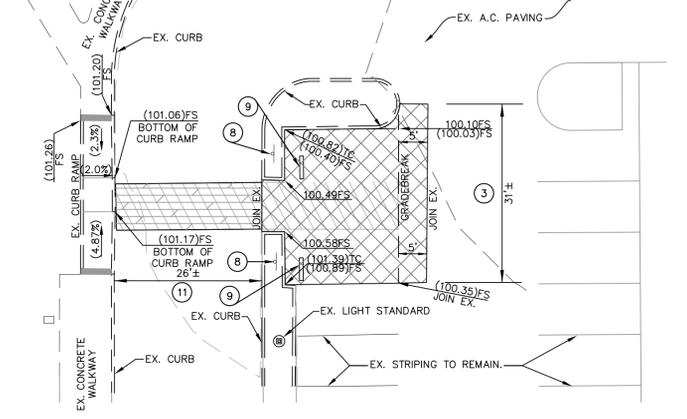
SHEET SIZE: ARCH D (24"x36")
PLOT DATE: 4/22/2023 8:00 AM



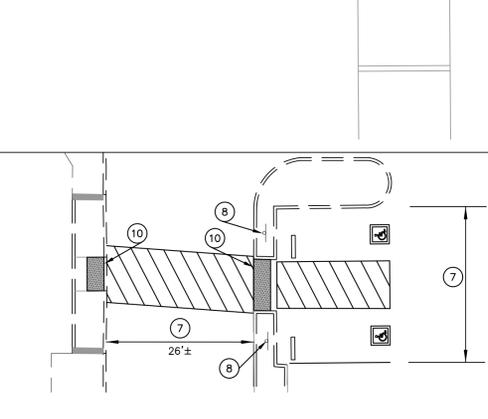
DETAIL 'A': SHADE STRUCTURE - ENLARGED VIEW SCALE:1"=15'



DETAIL 'B': INTERIOR CONCRETE ADJUSTMENT - ENLARGED VIEW SCALE:1"=15'

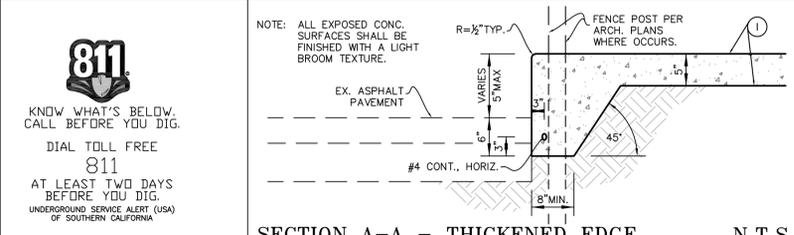


DETAIL 'C': A.D.A. PARKING SCALE:1"=15'

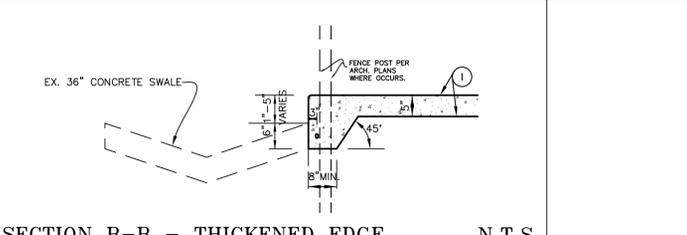


DETAIL 'D': A.D.A. STRIPING SCALE:1"=15'

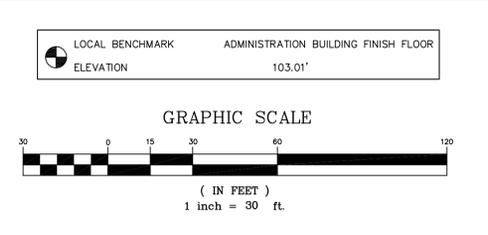
- KEY NOTES**
- 1 SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT.
 - 2 NEW 5" THICK P.C.C. (3000 PSI COMPRESSIVE STRENGTH) WITH THICKENED EDGE WHERE SHOWN (SEE SECTION A-A AND B-B) REINFORCED WITH #3 REBARS AT 18" ON CENTER BOTH WAYS, PLACED ON MIN. 12" THICK SUBGRADE SOIL COMPACTED TO MIN. 90% OF THE MAXIMUM DENSITY PER ASTM D1557.
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 - 6 INSTALL CHAINLINK FENCE AND GATE PER ARCHITECTURAL DRAWINGS.
 - 7 NEW STRIPING PER ARCHITECTURAL DRAWINGS.
 - 8 ADA PARKING SIGNS PER ARCHITECTURAL DRAWINGS.
 - 9 REMOVE EXISTING WHEELSTOPS AND REPLACE WITH NEW IF DAMAGED PER OWNER DIRECTION.
 - 10 FURNISH AND INSTALL TRUNCATED DOMES DETECTABLE WARNING 36" IN DEPTH, PLACED 6" FROM THE EDGE OF THE CURB RAMP (WHERE APPLICABLE) PER 11B-705.1.2.2. TRUNCATED DOMES SHALL COMPLY WITH CBC 11B-705.1 FOR DOME SIZE AND SPACING, COLOR AND CONTRAST, AND RESILIENCY.
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- NOTE: DISPOSE OF ALL REMOVED MATERIALS AND CONSTRUCTION WASTE OFF-SITE AND IN ACCORDANCE WITH APPLICABLE LOCAL CODES.



SECTION A-A - THICKENED EDGE N.T.S.



SECTION B-B - THICKENED EDGE N.T.S.



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ARCHITECT
PROFESSIONAL SEAL
GARY C. BASTAMIAN
Exp. 07-25-46
2023
STATE OF CALIFORNIA

PROJECT: NEW SHADE STRUCTURE AND A.D.A. PATH-OF-TRAVEL MITIGATION LANCASTER HIGH SCHOOL 44701 32ND STREET WEST LANCASTER, CA 93536

SHEET NAME: GRADING IMPROVEMENT PLAN

DATE: 02/25/2022
DRAWN: RM
JOB: J21316
SHEET: C-2

BID SET

LANCASTER HIGH SCHOOL

PROJECT ADDRESS:
LANCASTER HIGH SCHOOL
44701 32ND ST. W
LANCASTER, CA 93556



CITY OF LANCASTER



ENLARGED MAP

VICINITY MAP

SCALE:
1" = 40'



32ND STREET WEST

32ND STREET W

ND STREET WEST



SCALE:
1" = 60'

1

DSA

810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the [DSA Forms](#) or [DSA Publications](#) webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply. Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION

School District/Owner: ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT
Project Name/School: LANCASTER HIGH SCHOOL
Project Address: 44701 32nd St W, Lancaster, CA 93556

FIRE & LIFE SAFETY INFORMATION

1.	Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Refer to the following website for FHSZ locations: http://eqis.fire.ca.gov/FHSZ/		Moderate <input type="checkbox"/>	High <input type="checkbox"/>
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)		Very High <input type="checkbox"/>	WIFA <input type="checkbox"/>

DGS DSA 810 (revised 12/29/20) DEPARTMENT OF GENERAL SERVICES Page 1 of 4
DIVISION OF THE STATE ARCHITECT STATE OF CALIFORNIA

**DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL**

CONDITION MEANS AND METHODS RESOLUTION	ALTERNATE ACCEPTED			
	Yes	No	N/A	N/R
4. Emergency vehicle access roadways do not meet CFC requirements.				
4a. Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5. Fire Hydrants: Number and spacing does not meet CFC requirements.				
5a. Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.				
6a. Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7. Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				
7a. Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing life and life safety protection of life and property.

Accepted by: _____ Title: _____

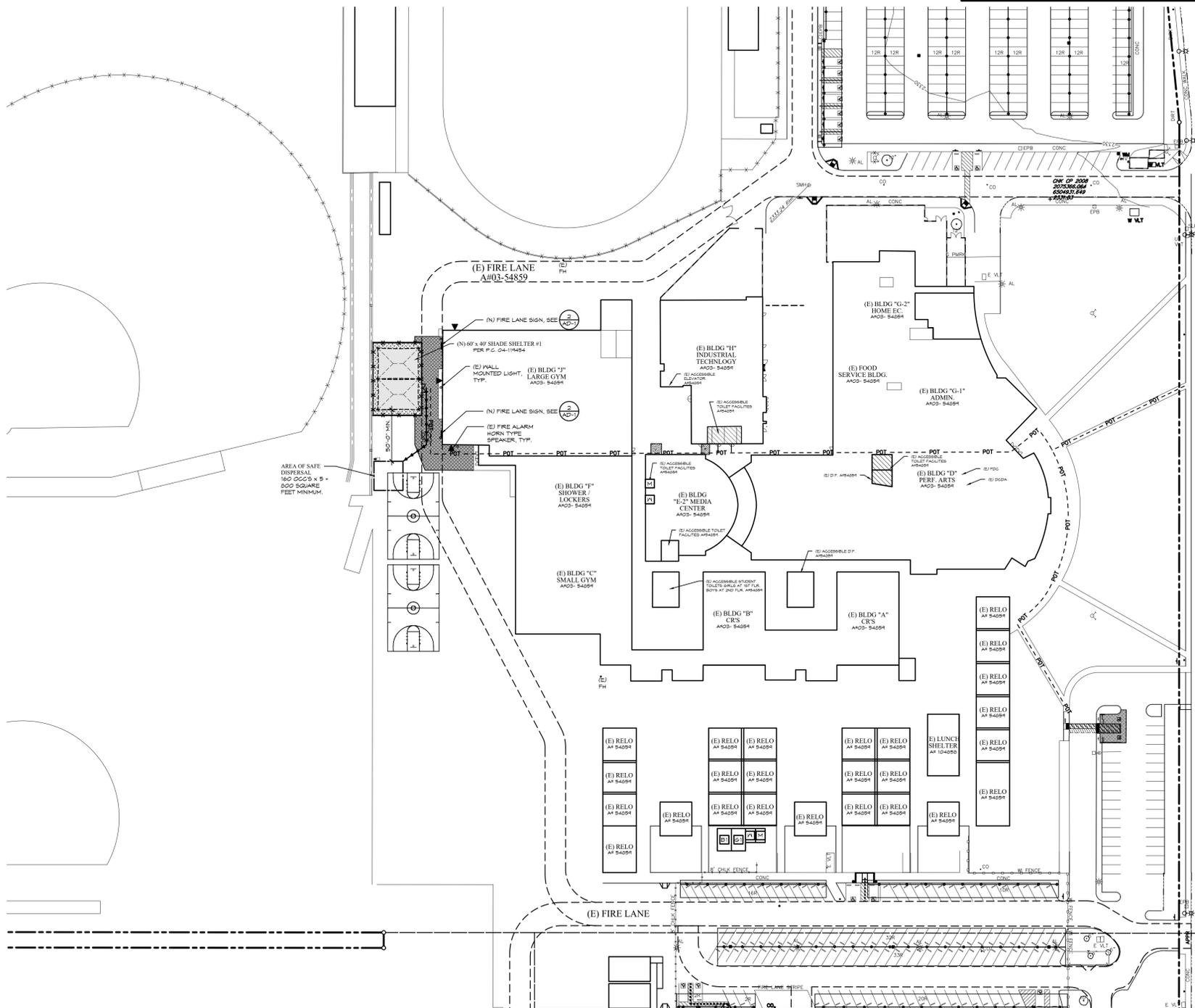
Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name: _____
LFA Review Official: _____
Title: _____ Work Phone: _____
Work Email: _____

LFA Reviewer's Signature: _____ Date: _____

DGS DSA 810 (revised 12/29/20) DEPARTMENT OF GENERAL SERVICES Page 2 of 4
DIVISION OF THE STATE ARCHITECT STATE OF CALIFORNIA



OVERALL SITE PLAN

SCALE:
1" = 60'

1

20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122266 INC:
REVIEWED FOR:
SS FLS ACS
DATE: 04/18/2023

REVISIONS	BY

FF&J
Frick, Frick & Jetté Architects
19153 Town Center Dr., Suite 101
Apple Valley, CA 92308
(760) 240-6211 www.ffj-arch.com
SERVING CLIENTS IN CALIFORNIA SINCE 1946
Architecture • Planning • Landscape Architecture

ENGINEER



PROJECT: NEW SHADE STRUCTURE AND RELATED SITE WORK AT LANCASTER HIGH SCHOOL
44701 32ND ST W, LANCASTER, CA 93556
SHEET NAME: LOCAL FIRE AUTHORITY REVIEW

DATE: November, 2022
DRAWN:
JOB: ANT21-01e
SHEET:

A0.1
BID SET

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SHEET SIZE: ARCH D (24 X36")
PLOT DATE: 11/1/2022 9:38 PM

Z:\ANTELOPE VALLEY\ANT21-01 - S55 - 1 VARIOUS SITES\ANT21-01E - LANCASTER HS\ARCH\A-1 OVERALL SITE PLAN.DWG

BUILDING #/NAME	CHAPTER 3 OCCUPANCY GROUP	CHAPTER 6 TYPE OF CONSTRUCTION	ACTUAL FLOOR AREA (SQ. FT.)	FIRE SPRINKLERED	MAX. HEIGHT		AREA MODIFICATION (2019 CBC, SECTION 506)					RATIO ACTUAL/ALLOWABLE	TOTAL RATIO = <1	REMARKS				
					STORIES		WIDTH LIMITS (EQUATION 5-4)		FRONTAGE INCREASE (EQUATION 5-5)						FRONTAGE INCREASE (IF)	NS	AREA MODIFICATION (EQUATION 5-1) Aa = At + (NS x If)	
					TABLE 504.4	ACTUAL	F=	P=	W=	F=	P=							W=
NEW SHADE STRUCTURE S.S. #1	A-3	V-B	2,400	NS	1	1	40	10	6,000				0.00	6,000	6,000	0.40	0.40	
TOTAL BUILDING AREA (SQ. FT.):			2,400															

OCCUPANT LOAD:
2,400 SQ. FT. / 15 = 160 OCC'S MAX

35ND STREET

32ND STREET WEST

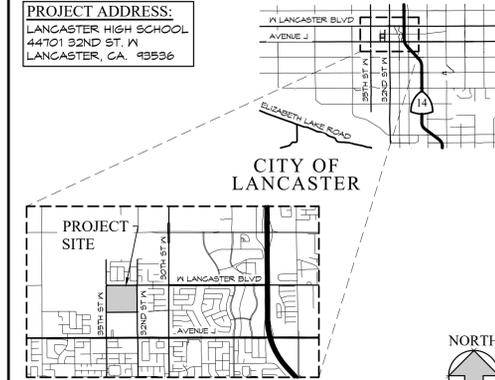
32ND STREET WEST

32ND STREET W

32ND STREET WEST



PROJECT ADDRESS:
LANCASTER HIGH SCHOOL
44701 32ND ST. N
LANCASTER, GA. 30536



ENLARGED MAP

VICINITY MAP

- "DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."
- ALL ITEMS ARE EXISTING (E) UNLESS NOTED NEW (N).
- GRATINGS LOCATED IN THE SURFACE OF THE PEDESTRIAN WAY, IN THE PATH OF TRAVEL, GRID/OPENINGS IN GRATINGS SHALL BE LIMITED TO 1/2" MAX. IN THE DIRECTION OF TRAFFIC FLOW. GRATES TO BE MODIFIED IF REQUIRED.
- REMOVE ALL GATE SIGNS THAT READ "LOCK".

GENERAL NOTES

10

PARKING COUNT		
2019 CBC, TABLE 11B-208.2		
TOTAL # OF PARKING SPACES	FROM	TO
1	25	1
26	50	2
51	75	3
76	100	4
101	150	5
151	200	6
201	300	7
301	400	8
401	500	9
501	1000	10
1001	AND OVER	11

12% OF TOTAL
**20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000

PARKING LOT #3		
	REQUIRED	PROVIDED
# OF STANDARD PARKING SPACES:	2	37
# OF ACCESSIBLE SPACES:	2	2
OF THOSE, # OF VAN PARKING:	1	1

TOTAL PARKING SPACES:

PARKING COUNT

15

OVERALL SITE PLAN

SCALE:
1" = 60'

1

20

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NEW SHADE STRUCTURE AND RELATED SITE WORK
AT LANCASTER HIGH SCHOOL
44701 32ND ST N, LANCASTER, CA 95556

DATE: November, 2022
DRAWN:
JOB: ANT21-01e
SHEET:

A-1

BID SET

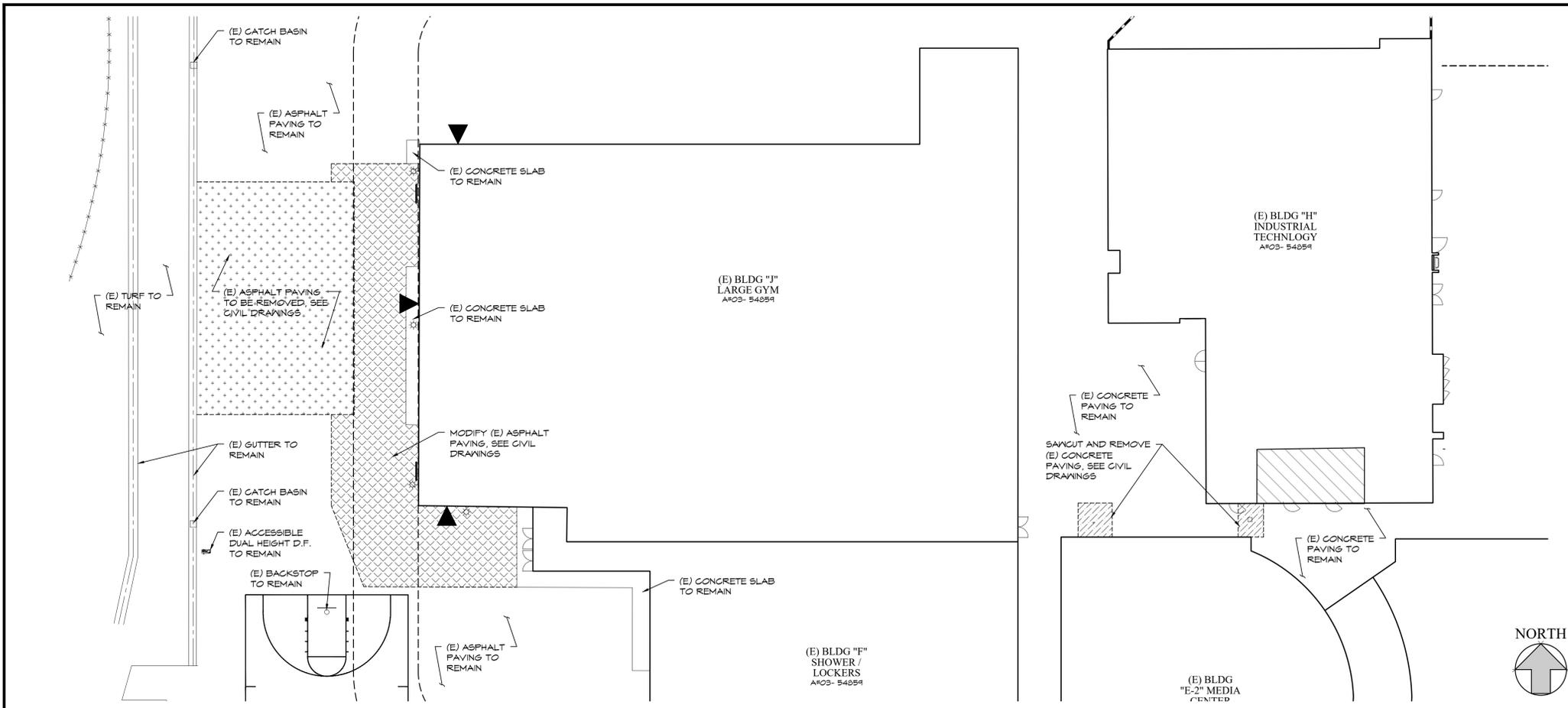
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LANCASTER HIGH SCHOOL

OVERALL SITE PLAN

SHEET SIZE: ARCH D (24 X 36")
 PLOT DATE: 11/2/2022 9:37 AM

REFS:
 \border (GD) - D.dwg
 \site (L) - 11/15/21 - H5.dwg
 \XREF - 2020.dwg

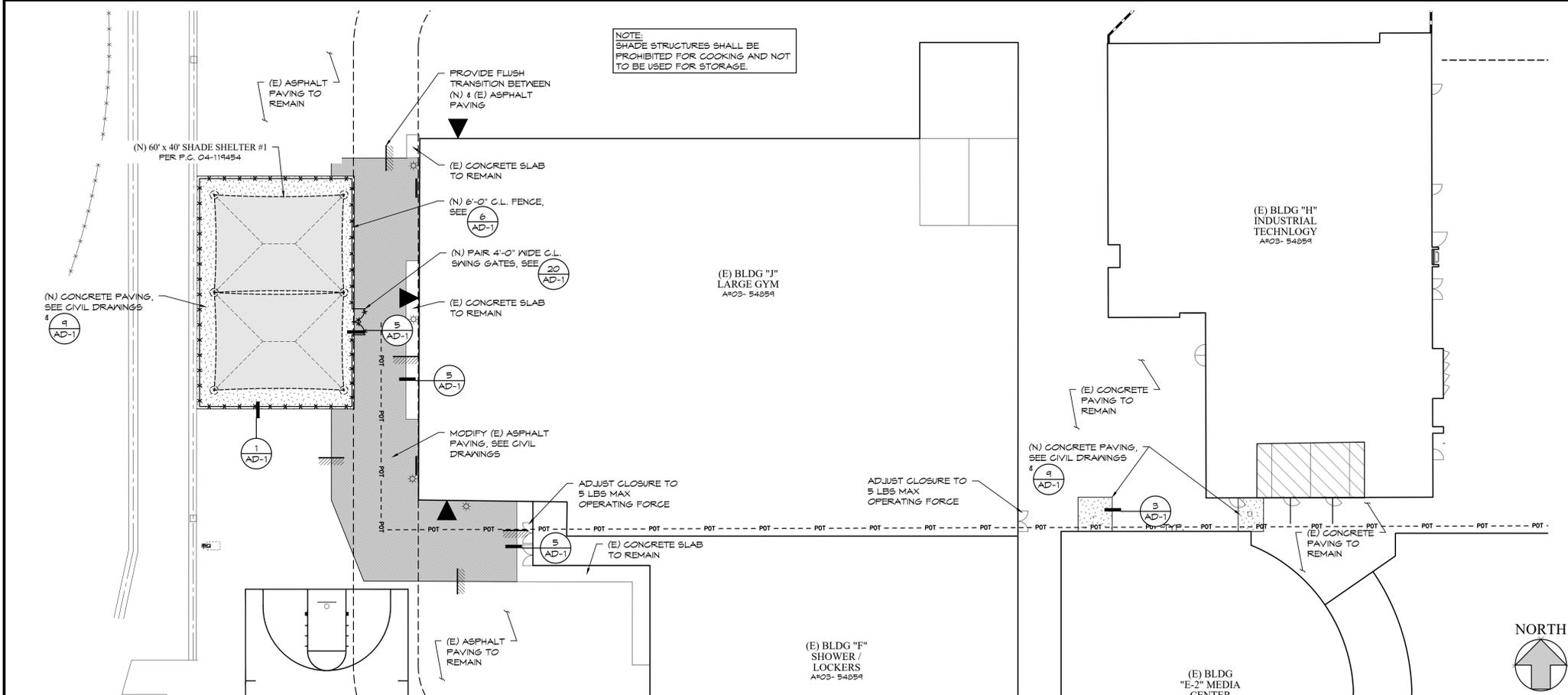


ENLARGED DEMO SITE PLAN

SCALE: 1" = 20'

1

Z:\ANTELOPE VALLEY\ANT21-01 - S55 - 1 VARIOUS SITES\ANT21-01E - LANCASTER HS\ARCH-A-2 ENLARGED SITE PLANS.DWG



ENLARGED NEW SITE PLAN

SCALE: 1" = 20'

2

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 AT LANCASTER HIGH SCHOOL
 44701 32ND ST N, LANCASTER, CA 93556

SHEET NAME: ENLARGED SITE PLANS

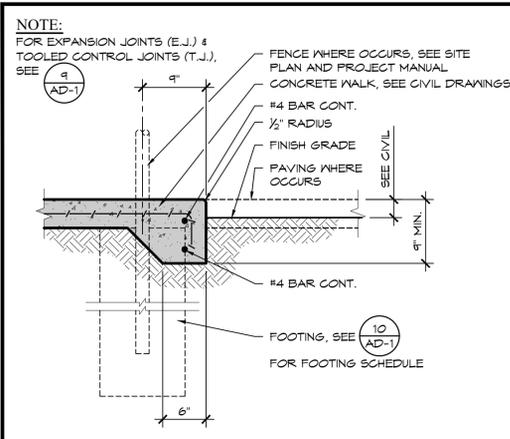
DATE: November, 2022
 DRAWN:
 JOB: ANT21-01e
 SHEET:

A-2

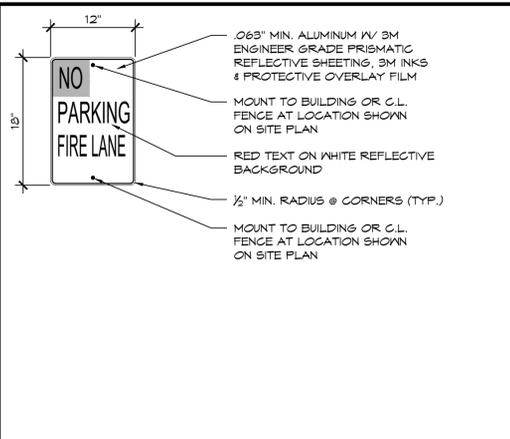
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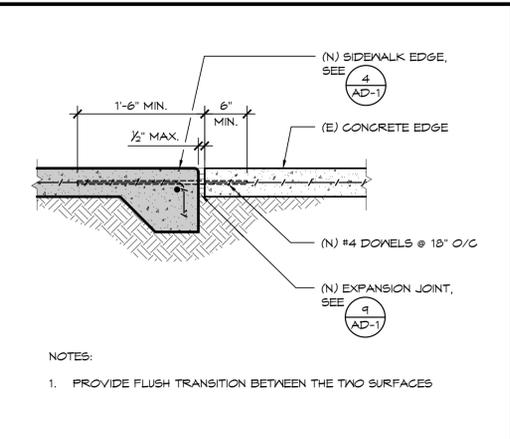
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PLOT DATE: 11/1/2022 9:38 PM



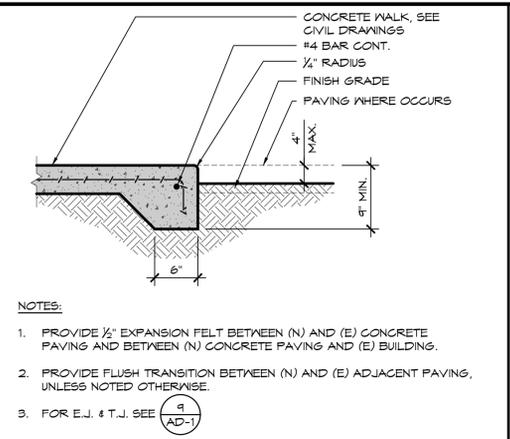
FENCE @ CONCRETE SLAB SCALE: 1" = 1'-0" 1



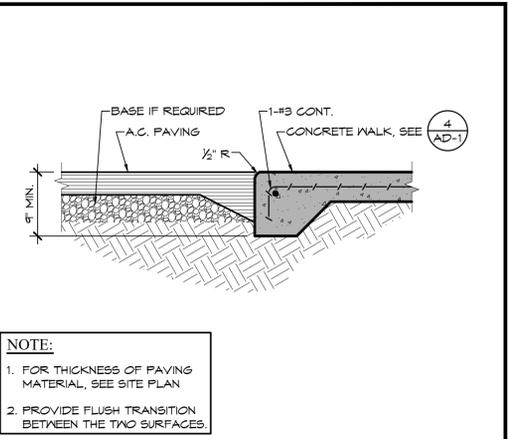
FIRE LANE SIGN SCALE: 1" = 1'-0" 2



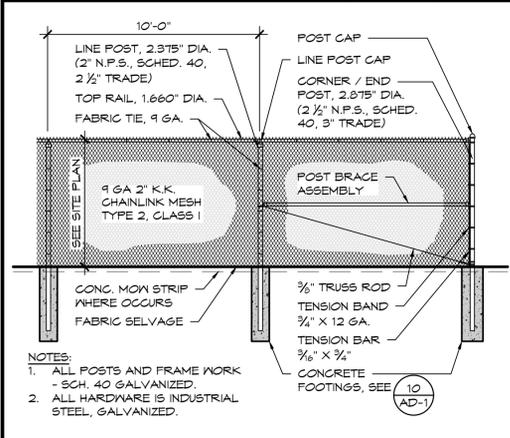
JOINT AT (N) AND (E) CONCRETE PAVING SCALE: 1" = 1'-0" 3



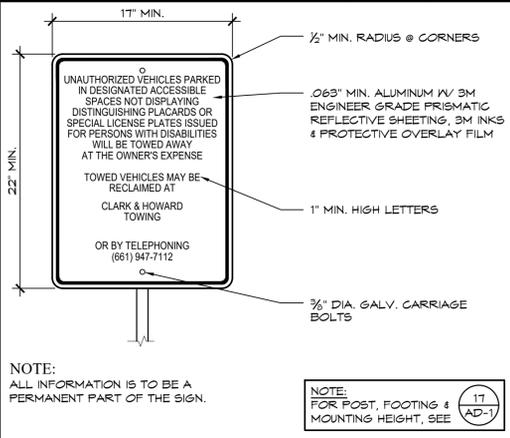
SIDEWALK EDGE SCALE: 1" = 1'-0" 4



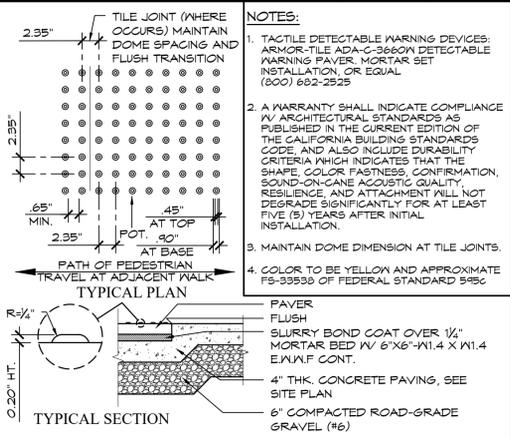
A.C. PAVING AT CONCRETE PAVING SCALE: 1" = 1'-0" 5



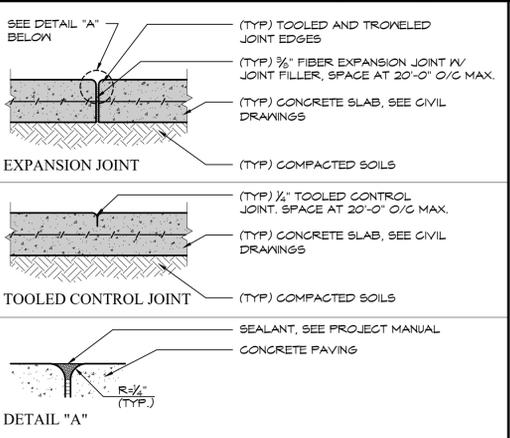
CHAIN LINK FENCE ELEVATION SCALE: 1/2" = 1'-0" 6



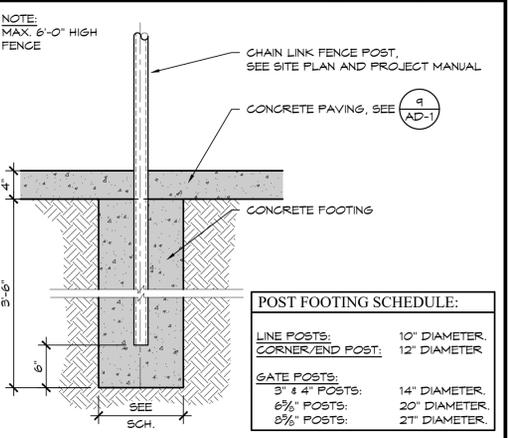
PARKING TOW-AWAY SIGN SCALE: 1 1/2" = 1'-0" 7



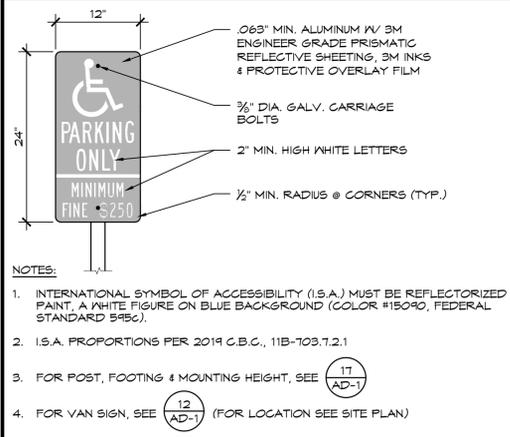
TRUNCATED DOMES DETECTABLE WARNING STRIPS SCALE: 1" = 1'-0" 8



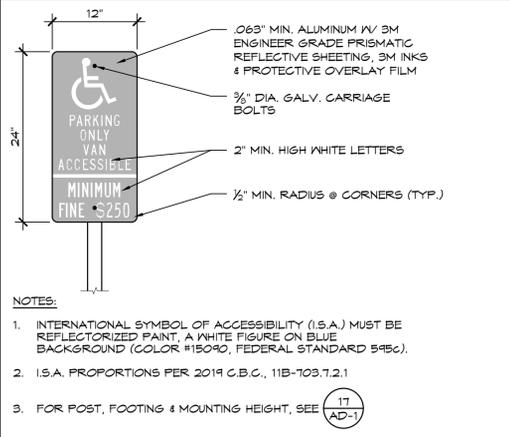
JOINTS IN CONCRETE PAVING SCALE: 1 1/2" = 1'-0" 9



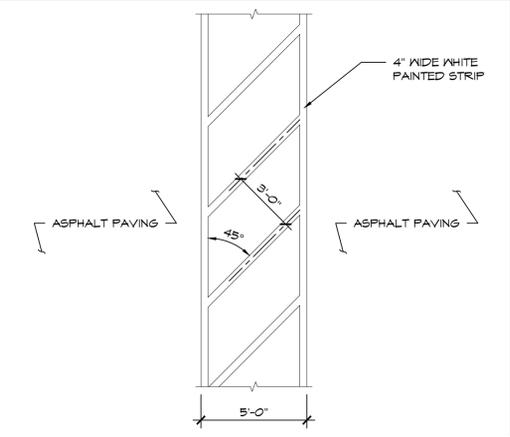
CHAIN LINK POST FOOTING SCALE: 1" = 1'-0" 10



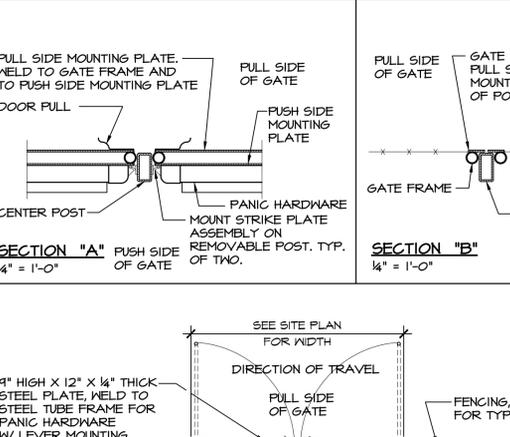
ACCESSIBLE AUTO PARKING SIGN SCALE: 1" = 1'-0" 11



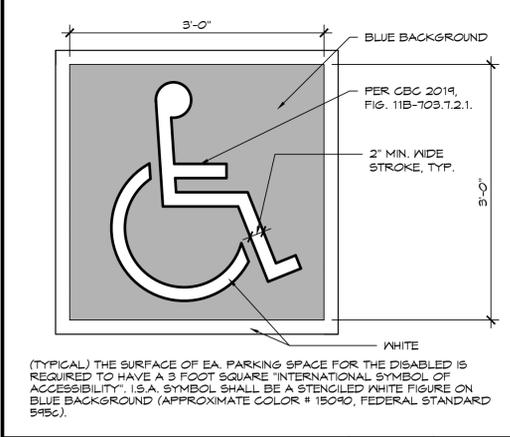
ACCESSIBLE VAN PARKING SIGN SCALE: 1" = 1'-0" 12



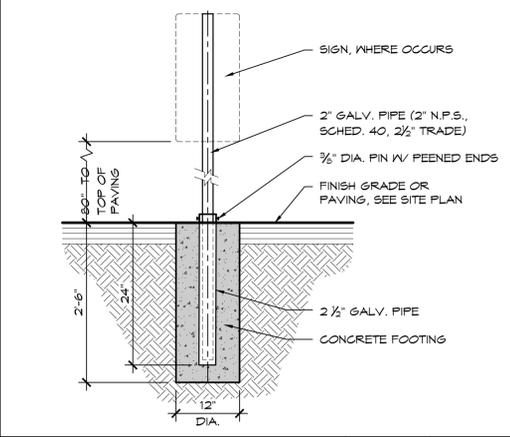
PAINTED CROSSWALK SCALE: 1/2" = 1'-0" 13



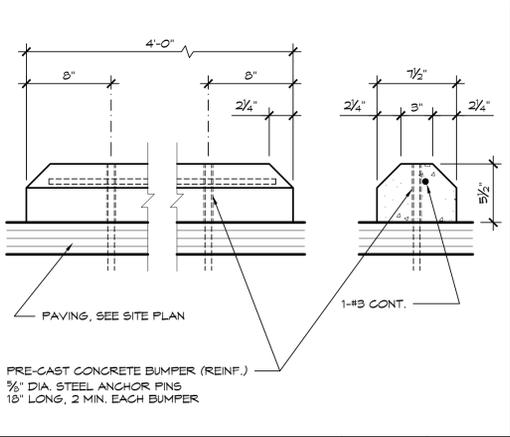
CHAIN LINK SWING GATES WITH PANIC HARDWARE AND REMOVABLE POST SCALE: 1/2" = 1'-0" 14



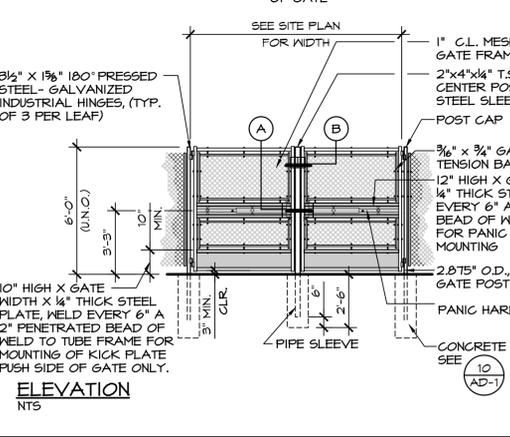
INTERNATIONAL SYMBOL OF ACCESSIBILITY SCALE: 1" = 1'-0" 16



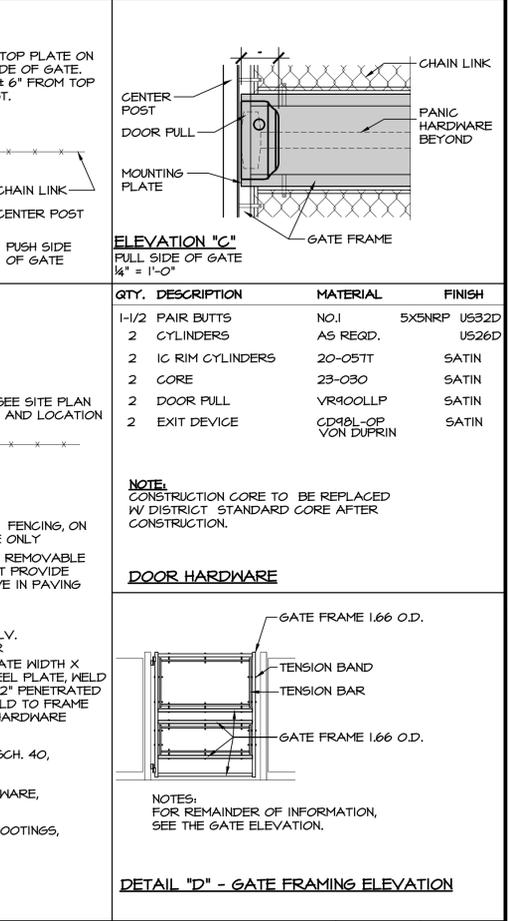
SIGN FOOTING SCALE: 3/8" = 1'-0" 17



PARKING SPACE WHEEL STOP SCALE: 1 1/2" = 1'-0" 18



CHAIN LINK SWING GATES WITH PANIC HARDWARE AND REMOVABLE POST SCALE: 1/2" = 1'-0" 19



CHAIN LINK SWING GATES WITH PANIC HARDWARE AND REMOVABLE POST SCALE: 1/2" = 1'-0" 20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122266 INC:
REVIEWED FOR:
SS [x] FLS [x] ACS [x]
DATE: 04/18/2023

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ARCHITECT

LICENSED ARCHITECT
LAND C. BASTIEN
NO. 027546
REN. 6-2023
STATE OF CALIFORNIA

PROJECT: NEW SHADE STRUCTURE AND RELATED SITE WORK AT LANCASTER HIGH SCHOOL
44701 32ND ST N, LANCASTER, CA 93556

DATE: November, 2022
DRAWN:
JOB: ANT21-01e
SHEET: AD-1

DETAILS

AD-1
BID SET

GENERAL NOTES

- ALL COMMUNICATIONS WORK SHALL BE COORDINATED WITH THE COMMUNICATION SYSTEMS EQUIPMENT MANUFACTURER AND THE SCHOOL DISTRICT MAINTENANCE DEPARTMENT PRIOR TO ROUGH-IN AND INSTALLATION OF ANY AND ALL COMMUNICATION SYSTEM DEVICES AND RELATED CONDUIT AND WIRE.
- THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES AND THE UTILITY COMPANIES.
- NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.
- ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THIS CONTRACTOR.
- MEP COMPONENT ANCHORAGE NOTE**
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1611A.118 THROUGH 1611A.126 AND ASCE 7-16 CHAPTER 13, 26 AND 30.
 - ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - TEMPORARY, OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE.
 - TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENTS IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1611A.124, 1611A.125, AND 1611A.126

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2019 CBC OR LATER). COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

- MP□MD□PP□E□ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECTS SPECIFIC NOTES AND DETAILS.
- MP□MD□PP□E□ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) *

- THIS CONTRACTOR SHALL COORDINATE ALL LINE AND LOW VOLTAGE COMPONENTS AND WIRING TYPES TO MATCH EXISTING SYSTEMS WITH THE SCHOOL DISTRICT PRIOR TO BID AND INCLUDE ALL COSTS FOR A COMPLETE OPERABLE SYSTEM EXPANSION.
- ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH EXISTING FINISH.
- IDENTIFICATION NAME PLATES FOR PANELS AND SWITCHBOARDS/DISTRIBUTION PANEL FEEDER CIRCUIT BREAKERS SHALL MATCH THE NOMENCLATURE PROVIDED BY THE OWNER AT THE END OF THE CONTRACT.
- ALL EXTERIOR MOUNTED EQUIPMENT SHALL BE WEATHERPROOF AND PROVIDED IN A WEATHERPROOF ENCLOSURE.
- INSTALL RACEWAY SYSTEMS AS FOLLOWS:
 - RIGID GALVANIZED STEEL IN ALL OUTDOOR LOCATIONS AND IN INDOOR LOCATIONS WHERE SUBJECT TO PHYSICAL DAMAGE.
 - IMC OR EMT IN ALL INDOOR AREAS.
 - FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO LIGHT FIXTURES, MOTORS, VIBRATING ELECTRICAL EQUIPMENT AND HORIZONTAL RUNS IN WOOD STUD WALLS.
 - PVC CONDUIT FOR UNDERGROUND RUNS. USE 20 MIL PVC TAPED RIGID STEEL RISER ELBOWS AND RISERS FOR CONDUIT STUB-UPS.
 - USE COMPRESSION TYPE FITTINGS FOR ALL METALLIC CONDUIT.
 - 3/4" CONDUIT MINIMUM FOR UNDERGROUND INSTALLATIONS. 3/4" CONDUIT MINIMUM INDOORS.
- ALL WIRING SHALL BE COPPER.
- PROVIDE THE OWNER AND THIS ENGINEER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF JOB.
- CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL ROUTING OF CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES. THE CONTRACTOR SHALL INSTALL ALL CONDUIT, JUNCTION/PULL BOXES, ETC., AS REQUIRED FOR A COMPLETE SYSTEM IN FULL COMPLIANCE WITH ALL APPLICABLE CODES.

- ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH GOVERNING CODES.
- ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL - U.ON.
- COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF TWO (2) YEARS - U.ON.
- ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT, FIXTURES, DEVICES, FEEDERS, ETC. EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTORS SHALL IMMEDIATELY NOTIFY THIS ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED.
- ALL EQUIPMENT ELECTRICAL CHARACTERISTICS, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.
- IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
- THE CONTRACTOR SHALL STRATEGICALLY LOCATE JUNCTION BOXES AND PULL BOXES, ETC. IN ACCESSIBLE CEILING SPACES. PROVIDE ACCESS PANELS WHERE JUNCTION/PULL BOXES ARE LOCATED IN INACCESSIBLE CEILING SPACES. COORDINATE LOCATION OF REQUIRED ACCESS PANELS PRIOR TO ROUGH-IN.
- UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

REFERENCES & ABBREVIATIONS

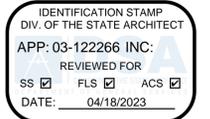
⊙	DETAIL REFERENCE	MCB	MAIN CIRCUIT BREAKER
Ⓜ	KEYNOTE REFERENCE	FLA	FULL LOAD AMPS
A.F.F.	ABOVE FINISH FLOOR	C.	CONDUIT
U.O.N.	UNLESS OTHERWISE NOTED	V.	VOLTS
C.O.	CONDUIT ONLY W/PULL ROPE	A	AMPS
WP	WEATHER PROOF	GFI	GROUND FAULT INTERRUPTER
CU.	COPPER	GND	GROUND
M.L.O.	MAIN LUGS ONLY	V.L.	VERIFY LOCATION
E or (E)	EXISTING TO REMAIN	A.C.	ABOVE COUNTER
EM.	EMERGENCY	N.L.	NIGHT LIGHT

SYMBOL LIST

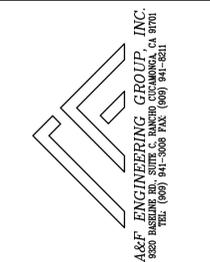
—	CONDUIT RUN ABOVEGROUND, 3/4" MINIMUM.
---	UNDERGROUND CONDUIT, 1" PVC MINIMUM.
—	BRANCH CIRCUIT PANELBOARD, FLUSH OR SURFACE MOUNTED AS INDICATED.
#10 	CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #2 WIRES CONTAINED THEREIN. TWO #2 ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #2.
B-1,3 →	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER.
●	CONDUIT TURNED DOWN.
(E)	EXISTING TO REMAIN.
(N)	NEW EQUIPMENT.
WP	WEATHERPROOF.
⊙	DETAIL CALLOUT.
⊙ E4X	DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER (20 AMP, 120V, 3W, WALL PLATE TO MATCH DEVICE) MTD. AT #10.

APPLICABLE CODES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS, AND THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS (C.C.R.), TITLE 24, INCLUSIVE OF: 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), C.C.R. TITLE 24, PART 1
2019 CALIFORNIA BUILDING CODE (CBC), C.C.R. TITLE 24, PART 2, BASED ON 2018 INTERNATIONAL BUILDING CODE.
2019 CALIFORNIA ELECTRICAL CODE (CEC), C.C.R. TITLE 24, PART 3, BASED ON 2017 NATIONAL ELECTRICAL CODE (NEC).
2019 CALIFORNIA MECHANICAL CODE (CMC), C.C.R. TITLE 24, PART 4, BASED ON 2018 UNIFORM MECHANICAL CODE (UMC).
2019 CALIFORNIA PLUMBING CODE (CPC), C.C.R. TITLE 24, PART 5, BASED ON 2018 UNIFORM PLUMBING CODE (UPC).
2019 CALIFORNIA ENERGY CODE, C.C.R. TITLE 24, PART 6.
2019 CALIFORNIA FIRE CODE (CFC), C.C.R. TITLE 24, PART 9, BASED ON 2018 INTERNATIONAL FIRE CODE.
2019 CALIFORNIA EXISTING BUILDING CODE, C.C.R. TITLE 24, PART 10, BASED ON 2018 INTERNATIONAL EXISTING BUILDING CODE.
2019 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24, PART 12.



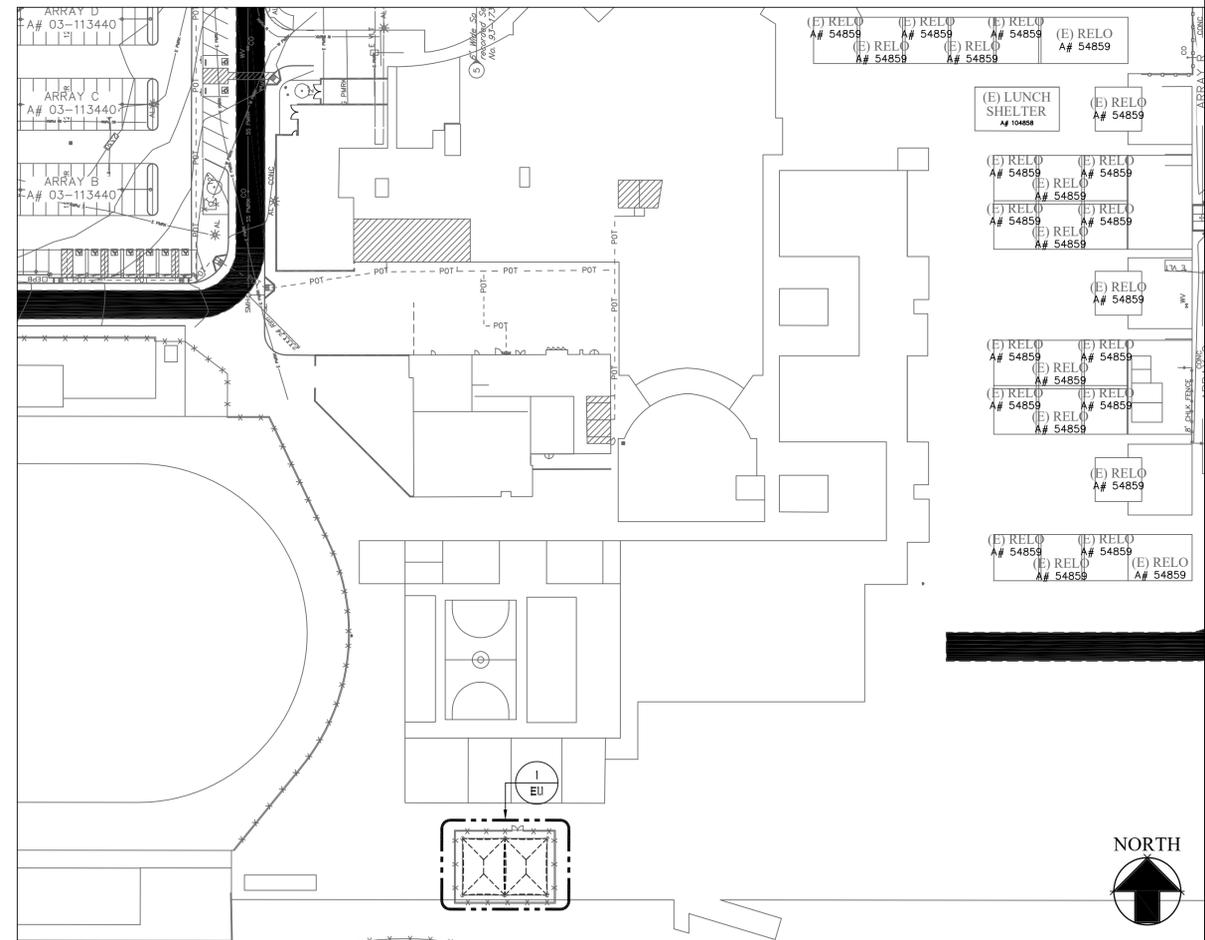
REVISIONS	BY



PROJECT: NEW SHADE STRUCTURE AND RELATED SITE WORK AT LANCASTER HIGH SCHOOL
44701 32ND ST. W., LANCASTER, CA 93536

GENERAL NOTES, SYMBOL LIST, AND SITE PLAN

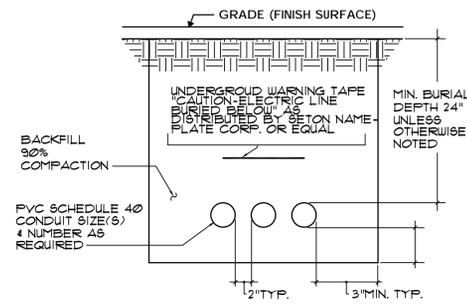
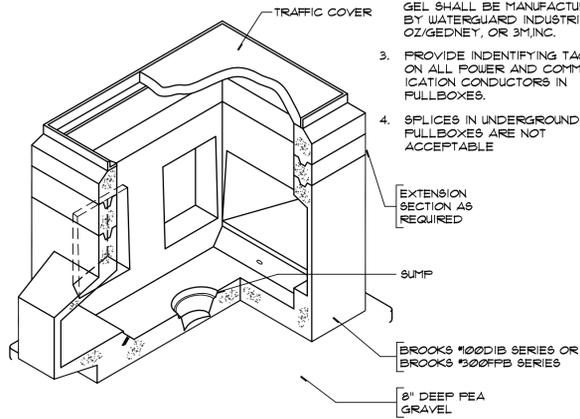
DATE: ---
DRAWN: DA
JOB: ANT21-01e
SHEET: 1



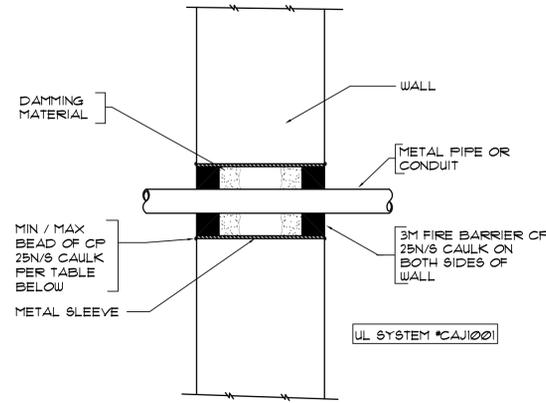
OVERALL SITE PLAN 1"=60' 1

PULL BOX NOTES

- ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.
- PROVIDE SEALING GEL IN ALL CONDUITS (BOTH W/ CONDUCTORS AND IN EMPTY SPARE CONDUITS). THE GEL SHALL BE INSERTED IN THE CONDUIT TO A DEPTH OF 6" AND FLUSH W/ THE END OF THE CONDUIT. THE GEL SHALL BE MANUFACTURED BY WATERGUARD INDUSTRIES, OZGEDNEY, OR 3M, INC.
- PROVIDE IDENTIFYING TAGS ON ALL POWER AND COMMUNICATION CONDUCTORS IN PULLBOXES.
- SPICES IN UNDERGROUND PULLBOXES ARE NOT ACCEPTABLE.

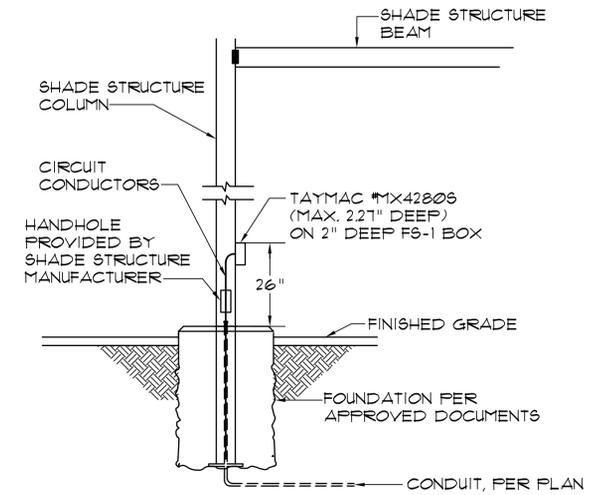


NOTE: 1. RUN SHALL BE STRAIGHT WITHOUT ANY HIGH OR LOW POINTS BETWEEN ENDS. THE HIGHER END SHALL BE AT A PULL BOX OR CONDUIT RISER.



Max Pipe Diam In. (mm)	Max Annular Space In. (mm)	Packing Mat Type (a)	Min Caulk Thickness In. (mm)
10 (254)	1 (25)	BR, CF, GF or MW	1/2 (13) (b)
10 (254)	1 (25)	CF or MW	1/2 (13) (c)
30 (762)	2, 1/2 (64)	BR, CF, GF or MW	1 (25) (b)

(a) BR - Polyethylene backer rod.
CF - Ceramic fiber blanket.
GF - Glass fiber insulation.
MW - Mineral wool batt.
(b) Caulk installed flush with top surface of floor or both surfaces of wall.
(c) Caulk installed flush with bottom surface of floor or one surface of solid (non-concrete block) wall.
SMCOMPANY - CP 25WB+ or FB-3000 WT
(Note: W Rating applies only when FB-3000 WT is used on top surface of floor and when it lips onto concrete for sloped openings.)



UNDERGROUND PULL BOX

SCALE: NONE 1

UNDERGROUND DUCT BANK

SCALE: NONE 2

CONCRETE WALL PENETRATION

SCALE: NONE 3

SHADE STRUCTURE

SCALE: NONE 4

NOT USED

SCALE: NONE 5

NOT USED

SCALE: NONE 6

NOT USED

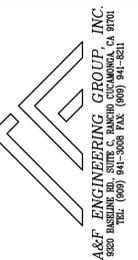
SCALE: NONE 7

NOT USED

SCALE: NONE 8



REVISIONS	BY



ENGINEER



ARCHITECT



PROJECT:
NEW SHADE STRUCTURE AND RELATED SITE WORK
AT LANCASTER HIGH SCHOOL
44701 32ND ST W, LANCASTER, CA 93536

SHEET NAME:
ELECTRICAL DETAILS

DATE: ---
DRAWN: DA
JOB: ANT21-01e
SHEET:

E0.2

BID SET

LANCASTER HIGH SCHOOL

SECTION 26 00 00
GENERAL ELECTRICAL REQUIREMENTS

PART 1 - GENERAL

1.1 SCOPE

- A. Work of this section includes everything necessary for or incidental to completing the electrical work, to provide a complete and operable electrical system, except as here in specifically excluded.

1.2 GENERAL REQUIREMENTS

- A. Electrical System Characteristics: 208/120V, 3PH, 4W.
- B. Guarantee: Furnish a written guarantee for a period of one - year from date of acceptance.
- C. Codes and Regulations: Work done under this Section shall comply with the latest edition of the following: California Electrical Code, State of California Title 24, State Building Standards, Occupational Safety and Health Administration (OSHA) requirements, State of California Title 17 and to all local codes having jurisdiction. In the case where the codes have different levels of requirements, the most stringent rule shall apply.
- D. Wherever a discrepancy in quantity or size of conduit, wire, equipment, devices, circuit breakers, etc., (all materials), arises on the Drawing and/or Specifications, the Contractor shall be responsible for providing and installing all material and services required by the strictest condition noted on Drawings and/or in Specifications to insure complete and operable systems as required by the Owner and Engineer.
- E. The General and Supplementary Conditions, as well as Special Conditions apply in addition to items in the Electrical Section. Special attention is directed to the following sections:

1. Drawings and Specifications at the site.
2. Shop drawings and samples.
3. Record drawings.
4. Cutting and patching.
5. Cleaning up.
6. Guarantee.
7. Tests.

- F. Additional Work: Refer to Mechanical and Plumbing specifications for additional Electrical requirements.

- G. Provide minimum of twenty percent (20%) spare receptacle size specified on plan.

H. Testing:

1. Scan:
 - a. Infrascan test of the existing power distribution system affected by the building addition (i.e. panels, switchboards) and the new branch circuit panels shall be required.
 - b. Infrascan certified reports shall be submitted on completion to the Owner and Engineer.
 - c. Scans shall be performed by an independent testing laboratory with total connected loads in operation.
2. Megger:
 - a. New branch circuit - phase, neutral and ground conductors.
 - b. New insulated bonding conductors.

3. All circuits shall be tested for continuity and circuit integrity. Adjustments shall be made for circuits not complying with testing criteria.
4. Grounding System: Shall be tested by an independent testing laboratory to meet resistance specified in Part 3.1, D.3 of these Specifications. It shall be this Contractor's responsibility to make adjustments, as required, to upgrade non complying systems to proper and safe operation.
5. All certified testing reports shall be submitted to the Owner at completion of project

I. All Core Cutting, Drilling, and Patching:

1. For the installation of work under this Section, the aforementioned shall be performed under this Section of the Specifications and the Concrete section of the Specifications.
2. No holes will be allowed in any structural members without the written approval of the Structural Engineer.
3. For penetrations of concrete slabs or concrete footings, the work will be as directed in the Concrete Section of Specifications.
4. The contractor shall be responsible for patching and repairing surfaces where he is required to penetrate for work under this contract.
5. Penetrations shall be sealed to meet the rated integrity of the surface required to be patched and repaired. The patched surface shall be painted or colored to match the existing surface.

J. Verifying Drawings and Job Conditions:

1. This Contractor shall examine all Drawings and Specifications in a manner to be fully cognizant of all work required under this Section.
2. This Contractor shall visit the site and verify existing conditions. Where existing conditions differ from Drawings, adjustment shall be made and allowances included for all necessary equipment to complete all parts of the Drawings and Specifications.

K. Shop Drawings:

1. Drawings shall be submitted in six (6) bound sets accompanied by Letter of Transmittal, which shall give a list of the number and dates of the drawings submitted. Drawings shall be complete in every respect and bound in sets.
2. The Drawings submitted shall be marked with the name of the project, numbered consecutively and bear the approval of the Contractor as evidence that the Drawings have been checked by the Contractor. Any Drawings submitted without this approval will be returned to the Contractor for resubmission.
3. If the shop drawings show variations from the requirements of the Contract because of standard shop practice or other reasons, the Contractor shall make specific mention of such variations in his letter of transmittal. If the substitution is accepted, the Contractor shall be responsible for proper adjustment which may be caused by the substitution. Samples shall be submitted when requested.
4. Shop drawings shall be submitted on the following but not limited to:

- a. Panel/Distribution panels and circuit breakers
- b. Pull and Junction boxes.
- c. Wire/Cable.
- d. Conduit and fittings.
- e. Conduit supports.

- L. Drawings of Record: The Contractor shall provide and keep up-to-date, a complete record set of blueprints. These shall be corrected daily and show every change from the original Drawings. This set of prints shall be kept on the job site and shall be used only as a record set. This shall not be construed as authorization for the Contractor to make changes in the layout without definite instruction in each case. Upon completion of the work, a set of reproducible Contract Drawings shall be obtained from the General Contractor and all changes as noted on the record set of prints shall be incorporated thereon with black ink in a neat, legible, understandable and professional manner. Refer to the Supplementary General Conditions for complete requirements.

1.3 WORK IN COOPERATION WITH OTHER TRADES

- A. Examine the Drawings and Specifications and determine the work to be performed by the site utilities contractor, electrical, mechanical, plumbing, building contractor and other trades. Provide the type and amount of electrical materials and equipment necessary to place this work in proper operation, completely wired, tested and ready for use. This shall include all conduit, wire, disconnects, relays, and other devices for the required operation sequence of all electrical, mechanical and other systems or equipment.
- B. Provide power and control circuits, conduit and wire as indicated on the Mechanical and Plumbing drawings as required for complete and operable systems.
- C. The electrical contractor shall be responsible for obtaining back - boxes for all communication/signal system devices/equipment from the low voltage contractor's for rough-in. He shall coordinate the delivery of the backboxes to avoid building construction delays. In the event that the backboxes are not delivered as scheduled, the electrical contractor shall be responsible for installing the correct backboxes, patching and refinishing walls disturbed by the installation of the subject backboxes.

1.4 TESTING AND ADJUSTMENT

- A. Upon completion of all electrical work, this Contractor shall test all circuits, switches, motors, breakers, motor starter(s) and their auxiliary circuits and any other electrical items to insure perfect operation of all electrical equipment.
- B. Equipment and parts in need of correction and discovered during such testing shall be immediately repaired or replaced with all new equipment and that part of the system shall then be retested. All such replacement or repair shall be done at no additional cost to the Owner.
- C. All circuit shall be tested for continuity and circuit integrity. Adjustments shall be made for circuits not complying with testing criteria.
- D. All certified testing reports shall be submitted to the Engineer at completion of project.

1.5 IDENTIFICATION

- A. Identification nameplates shall be Micarta 1/8" thick and of approved size, with bevelled edges and engraved white letters 1/4" high minimum on black background. Nameplates shall be provided for all circuits in the distribution switchboards, and selector switches. Inscriptions on equipment shall be identical to those indicated in panels and/or motor control centers and other similar devices. Each nameplate shall be provided with drillings and suitable mounting screws corresponding to finish of the nameplate. The inscriptions in each nameplate shall be as indicated on the Drawings.

1.6 MAINTENANCE, SERVICING, INSTRUCTION MANUALS AND WIRING DIAGRAMS

- A. Prior to final acceptance of the job, the Electrical Contractor shall furnish to the Owner at least four (4) copies of operating and maintenance and servicing instructions, as well as four (4) complete wiring diagrams for the following item(s) or equipment:
 1. Circuit breakers.
 2. Receptacles
- B. All wiring diagrams shall specifically cover the system supplied. Typical drawings will not be accepted. Two (2) copies shall be presented to the Electrical Engineer and four (4) copies to the Owner.

1.7 ELECTRICAL CONTRACTOR'S RESPONSIBILITY

- A. It shall be the Electrical Contractor's responsibility to obtain a complete set of Drawings and Specifications. He shall check the Drawings of the other trades and shall carefully read the entire Specifications and determine his responsibilities.
- B. The contractor shall be responsible for reviewing the plans and specifications to ensure each room, where electrical line or low voltage equipment is to be installed, has sufficient space to accommodate the system cabinets, equipment and terminations while maintaining code mandated clearances about said equipment. The contractor shall identify problem areas prior to bid, include all costs required for corrective measures in his bid and submit alternate equipment and materials suitable for the installation to the Architect/Engineer for acceptance as part of the product submittal process.

1.8 FINAL INSPECTION AND ACCEPTANCE

- A. After all requirements of the Specifications and/or the Drawings have been fully completed, representatives of the Owner will inspect the work. Contractor shall provide competent personnel to demonstrate the operation of any item or system to the full satisfaction of each representative.
- B. Final acceptance of the work will be made by the Owner after receipt of approval and recommendation of acceptance from each representative.

1.9 RECORD DRAWINGS

- A. Contractor shall furnish one set of reproducible record drawings before final payment of retention.

1.10 SUBSTITUTIONS

- A. Substitution to specified equipment shall be submitted and received by the Engineer fifteen (15) days after the bid date for review and approval.
- B. To receive consideration, requests for substitutions must be accompanied by documentary proof of its equality with the specified material. Documentary proof shall be in letter form and identify the specified values/materials alongside proposed equal values/materials. In addition, catalog brochures and samples must be included in the submittal.
- C. In the event that authorization is given for a substitute equal to bid, after award of contract the Contractor shall submit to the Engineer certified quotations from suppliers of both the specified and proposed equal material for price comparison and delivery dates.
- D. In the event of cost reduction, the Owner will be credited with 100 percent of the reduction, arranged by Change Order.
- E. The Contractor warrants that substitutions proposed for specified items will fully perform the functions required.
- F. Substitutions or requests for substitution shall not be accepted and rejected for failure to comply with items A-E above.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Materials and Equipment: All electrical materials and equipment shall be new and shall be listed by Underwriter's Laboratories and bear their label, or listed and certified by a nationally recognized testing authority where UL does not have an approval. Custom made equipment must have complete test data submitted by the manufacturer attesting to its safety. In addition, the materials and equipment shall comply with the requirements of the following:
 1. American Society of Testing Materials (ASTM).
 2. Insulated Cable Engineers Association (ICEA).
 3. National Electrical Manufacturer's Association (NEMA).
 4. National Fire Protection Association (NFPA).
 5. American National Standard Institute (ANSI).

B. Panelboards - Breaker Circuit

1. Branch circuit panelboards shall be of the dead front safety type equipped with thermal magnetic bolt-on type 40 deg C. circuit breakers. Panels shall be suitable for the disaggregation of loads with provisions for the installation of future current transformer (CT's). Enclosure shall be minimum 20" wide (Eaton split-bus type panel) or 30" wide (not split-bus) and 5-3/4" deep unless otherwise noted on plan. Refer to panel schedule for ratings and quantity of circuits to be provided. Panels shall be provided with copper buses. Branch circuit panelboards shall be Eaton or approved equal Siemens, Square D or General Electric to match the main switchboard manufacturer. Equipment manufactured by third party OEM is not acceptable.
2. Circuit breakers shall be fully rated to provide the symmetrical interrupting capacity indicated on the single line diagram. Circuit breakers shall be the number of poles and current capacity as indicated on the panel schedule with terminals/lugs UL listed for 75°C. Circuit breakers shall be fully coordinated to ensure a local fault does not trip any upstream circuit breaker.
3. Trims shall have doors equipped with flush type combination lock and catch, two milled type keys supplied with each panel. All locks shall be keyed alike and each door shall have a plastic covered directory frame with a typed identification card of all circuit and panel numbers for branch circuit panelboards and engraved lamacoid nameplates for power distribution panelboards.
4. Provide nameplate for all panelboards, 1/8" thick, Micarta or Lamacoid plate of approved size, with bevelled edges and engraved white letters on black background. Install nameplates on exterior trim of panel, above the panel door. Provide Arc-Fault warning labels on panel fronts.
5. All wiring shall be neatly arranged and laced together.
6. All circuit breakers shall be provided with a device for locking circuit breaker in "OFF" position.
7. Refer to Painting Section of these Specifications for all panel finish. Panel shall be primed for painting.
8. Neutral and Ground bus bars shall be full size, rectangular in cross section constructed of copper and interconnections.
9. Where indicated on plan, panels housing time clocks and contactors for control of lighting shall be provided with an auxiliary section. Panel shall consist of a two-section panelboard with two boxes and one trim/cover, each with their own door/lock.
10. Refer to Section 26 05 73 for additional requirements. Panelboards and the overcurrent protective device coordination study must be submitted concurrently. A Panelboard submittal that does not include the overcurrent protective device coordination study will be considered incomplete and returned as "rejected"

C. Conduit:

1. Rigid conduit shall be full weight threaded type aluminum or steel, except where specifically required to be steel. Steel conduit shall be protected by overall zinc coating to inside and outside surfaces, applied by the hot dip, metallizing or sherardizing process.
2. Galvanized Rigid Conduit (GRC), shall be full weight threaded type aluminum or steel, except where specifically required to be steel. Steel conduit shall be protected by overall zinc coating to inside and outside surfaces, applied by the hot dip, metallizing, or sherardizing process.
3. Intermediate Metal Conduit (IMC) shall be hot-dipped galvanized in accordance with UL 1242 and meeting Federal Specification WWC- 581 (latest revision).
4. Electrical Metallic Tubing (EMT), shall be zinc - coated steel with baked enamel or plastic finish on inside surfaces.
5. Flexible metal conduit shall be constructed of aluminum or hot -dipped galvanized steel strips wound spirally with interlocking edges to provide greatest flexibility with maximum strength. Interior surfaces shall be smooth and offer minimum drag to pulling in conductors. Used only as directed by the Engineer.
6. Liquid-tight conduit (Seal -Tite) shall be galvanized steel flexible conduit as above except with moisture and oil-proof jacket, pre-cut lengths and factory installed fittings. For outdoor installations and motorconnection.
7. Non-Metallic Conduit:
 - a. Polyvinyl chloride (PVC) rigid conduit, Schedule 40, Type II for underground installation only.
 - b. Conduit and fitting shall be produced by the same manufacturer.

D. Fittings:

1. Condulet type fittings shall be smooth inside and out, taper threaded with integral insulating bushing and of the shapes, sizes and types required to facilitate installation or removal of wires and cables from the conduit and tubing system. These fitting shall be of metal, smooth inside and out, thoroughly galvanized, and sherardized cadmium plated.
2. Metallic conduit covers shall have the same finish as the fitting and shall be provided for the opening of each fitting where conductor do not pass through cover.
3. Connector, coupling, locknut, bushings and caps used with rigid conduit shall be steel, threaded and thoroughly galvanized. Bushings shall be insulated.
4. EMT fittings, connectors and couplings, shall be steel, zinc or cadmium plated, raintight, threadless, compression or lap - on multiple point, steel locking ring type with insulated throat.
5. Flexible steel conduit connectors shall be of malleable iron clamp or squeeze type or steel wish-in type with insulated throat. The finish shall be zinc or cadmium plating.
6. Die cast, set screw or indenter type fittings are not acceptable.
7. Conduit unions shall be "Erickson" couplings, or approved equal. The use of running threads will not be permitted.

E. 600 Volt Conductors - Wire and Cable:

1. All conductors shall be copper. SimPull type or equal
2. Type THHN/THWN thermoplastic, 600 volt, UL approved, dry and wet locations, for conductor sizes up to and including #4 AWG.
3. Type XHHW cross-linked synthetic polymer, 600 volt, UL approved, for dry and wet locations, for conductor sizes #2 AWG. and above.
4. Cross-linked synthetic polymer, XHHW, 600 volts, UL approved, for installation underground, in concrete or masonry.
5. Wire and cable shall be new, manufactured not more than six (6) months prior to installation, shall have size, type of insulation, voltage rating and manufacturer's name permanently marked on outer covering at regular intervals.
6. Wire and cable shall be factory color coded by integral pigmentation with a separate color for each phase and neutral. Each system shall be color coded and it shall be maintained throughout.
7. Systems Conductor Color Coding:
 - a. Power 208/120V, 3PH, 4W:
 - (1) Phase A = Black
 - (2) Phase B = Red
 - (3) Phase C = Blue
 - (4) Neutral = White
 - b. Ground Conductors:
 - (1) Green

8. All color coding for #8 conductor and above shall be as identified above, utilizing phase tape at each termination.
 9. No conductors carrying 120 volt or more shall be smaller than #12 AWG.
- F. Junction and Pullboxes:
 1. For interior dry locations, boxes shall be galvanized one - piece drawn steel, knockout type, with removable, machine screw secured covers.
 2. For outside, damp or interior/exterior surface mounted locations, boxes shall be heavy cast aluminum or cast iron with removable, gasketed, non-ferrous machine screw secured covers.
 3. All boxes shall be sized for the number and sizes of conductors and conduits entering the box and equipped with plaster rings where required. Each conductor shall be terminated at an insulated, barriered terminal connector and completely identified with an engraved fiber identification marker, Electrovert or Underwriter's Safety Device Company.

G. Outlet Boxes:

1. For surface mounting or exposure to wet or damp locations, outlet boxes shall be heavy cast aluminum or cast iron with threaded hubs; covers shall be watertight with gaskets and no

H. Receptacles:

1. Weatherproof receptacle shall be industrial heavy duty type, ground fault interrupter, 20 ampere, three wire grounding type, 120 volt, Hubbell Bryant # GF - 5362 -1, with steel lockable lift cover U.L. listed for "wet" locations when in operation.

J. Painting:

1. Terminal cabinets, panels, junction boxes, pull boxes, etc., and conduit installed outdoors and in public view shall be painted with colors selected by the Architect to match the subject exterior surface. Refer to painting section of the specifications for additional requirements.

K. Seismic Design and Anchoring of Electrical Equipment:

1. Seismic anchorage of electrical equipment shall conform to C.C.R. Title 24, 2019 CBC with California Amendments. Anchorage details for roof/floor mounted equipment shall be as shown on plans

PART 3 - EXECUTION

3.1 PREPARATION AND INSTALLATION

A. Installation of Conduit and Outlet Boxes:

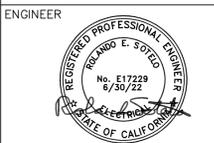
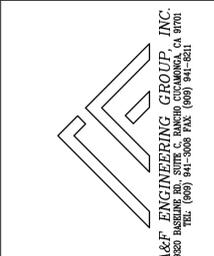
1. All conduit exposed or installed in concrete and masonry, shall be galvanized rigid steel conduit (GRC), or intermediate metal conduit (IMC).
2. Rigid conduit may be installed under floor slabs, under concrete sidewalls and as noted on the Drawings. Rigid conduit installed under slabs shall be 1" trade size minimum and shall be wrapped with 20 mil. polyvinyl chloride plastic tape.
3. All conduit except as hereinafter specified, installed in concrete or masonry walls, or damp or hazardous location, or subject to mechanical injury shall be heavy wall, threaded, galvanized rigid steel conduit (GRC), or intermediate metal conduit (IMC).
4. Intermediate metal conduit (IMC), is approved for use in all locations as approved for GRC or EMT and in accordance with Article 345 of CEC and UL Information card #DYBY.
5. MC cable is not allowed.
6. Conduit shall be run so as not to interfere with other piping fixtures or equipment.
7. The ends of all conduit shall be cut square, carefully reamed out to full size and shall be shouldered in fitting.
8. No running threads will be permitted in locations exposed to the weather, in concrete or underground. Special union fittings shall be used in these locations.
9. Underground conduit shall be, unless otherwise indicated, Schedule 40 PVC (polyvinyl chloride) installed at depth of not less than 24" below grade, concrete encased with a minimum of 3" concrete envelope and 2" minimum between conduits. Conduit separation shall be maintained using plastic spacers located at 10' - 0" intervals. Where power and communication/signal conduits are run in a common trench a (12") inch minimum separation shall be maintained between power and communication/signal conduits. The grounding wire in plastic conduit shall be rated in accordance with Article 250 of 2016 CEC. Conduit encasement will not be required for conduits installed under the building slab (building footprint).
12. All underground or imbedded conduit shall be 1" minimum trade size for steel and for PVC.
13. Where underground power feeder conduit runs stub - up, conduit shall transition to GRC underground. The contractor shall use GRC elbows and GRC risers wrapped in 20 mil. PVC tape for stub - ups. Conduit stub - ups for branch circuits and low voltage systems shall be PVC.
10. PVC conduit shall not be run above ground.
11. Where underground conduit runs penetrate floor slab, conduit shall terminate 6" above finished floor with a grounding bushing.
12. Where conductors enter a raceway in a cabinet, pull box, junction box, or auxiliary gutter, the conductors shall be protected by a plastic bushing type fitting providing a smoothly rounded insulating surface.
15. All conduit underground, in masonry and concrete walls, and where concealed under floor slabs shall have joints painted with thread compound prior to make-up. No conduit shall be installed horizontally in concrete walls or floors.
16. All conduit shall be supported at intervals not less than 6' - 0" and within 12" from any outlet and at each side of bends and elbows. Conduit supports shall be galvanized, heavy stamped, one hole conduit clamp properly secured.
17. Seismic Conduit Support:
 - a. All conduit shall be supported in such a manner that it is securely attached to the structure of the building. Attachment is to be capable of supporting the tributary weight of conduit and contents in any direction. Maximum spacing of support and braces are to be as follows:

CONDUIT TYPE	MAXIMUM SPACING
EMT, IMC	10'-0"
GRC (3/4" thru 1 1/2")	10'-0"
GRC (2" thru 2 1/2")	16'-0"
GRC (3" and larger)	20'-0"
18. All conduit runs shall be installed parallel or perpendicular to walls, structural members, or intersection of vertical planes and ceilings. Field made bends and offset shall be avoided where possible. Crushed or deformed raceway shall not be installed.
19. Open knockouts in outlet boxes only where required for inserting conduit.

END OF SECTION



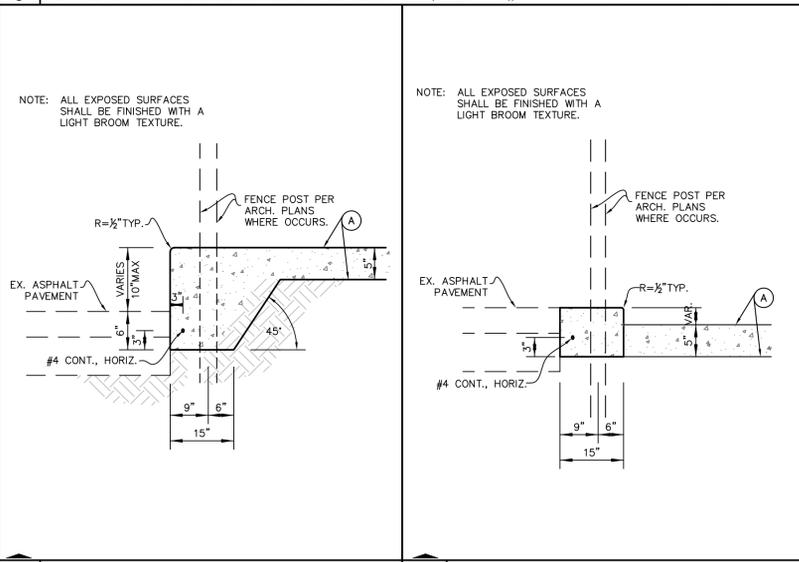
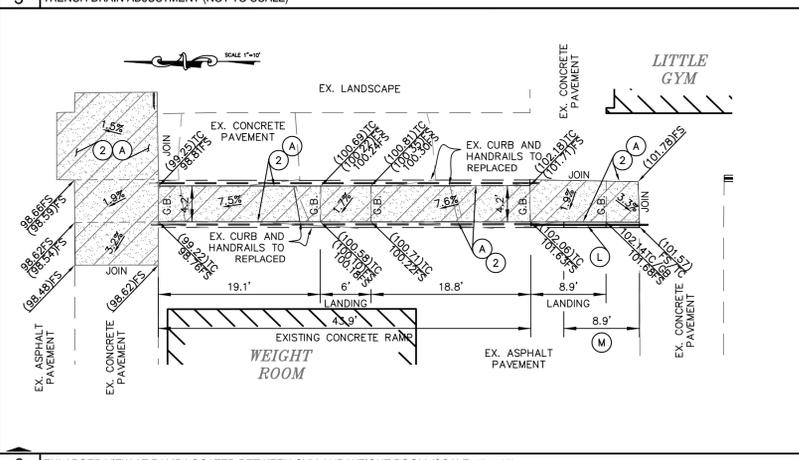
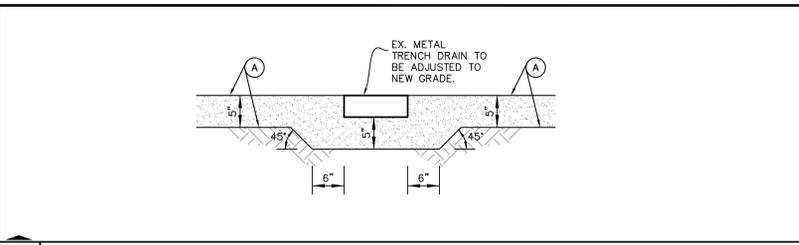
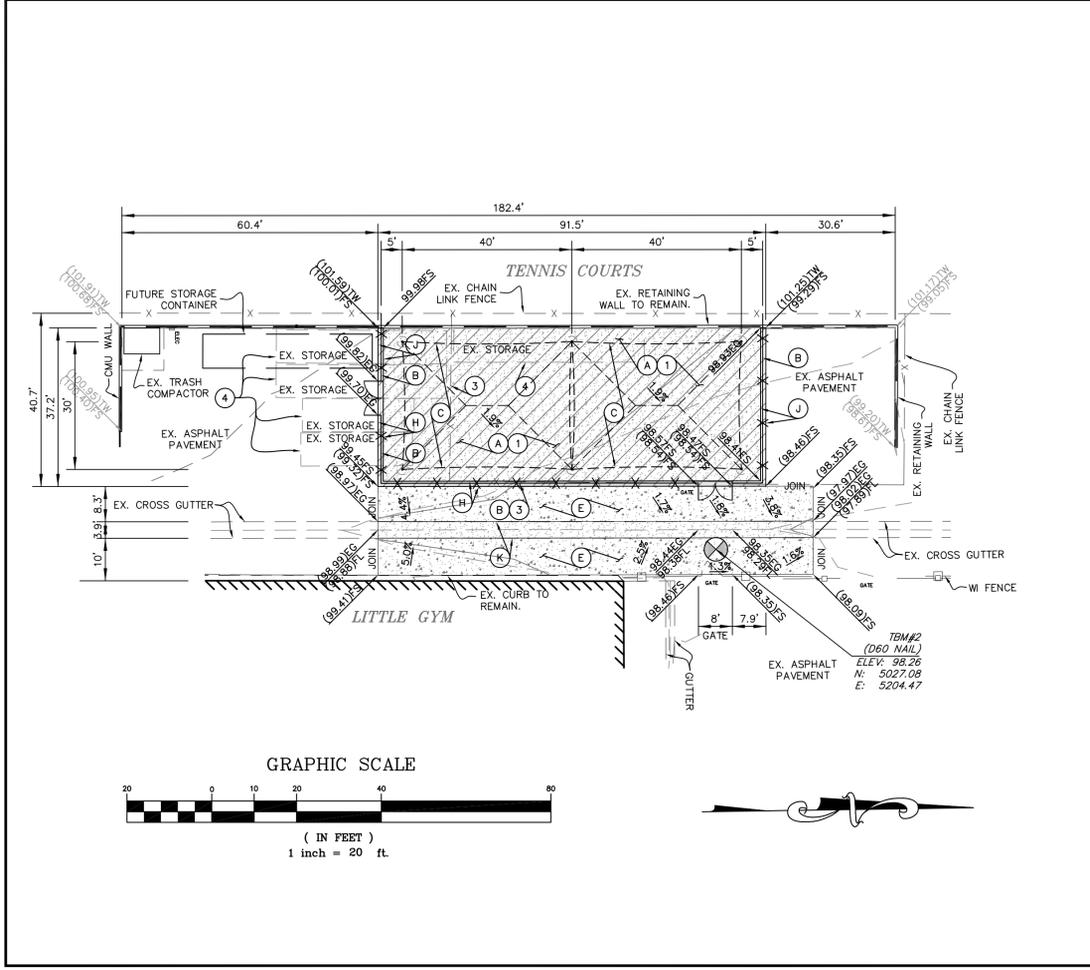
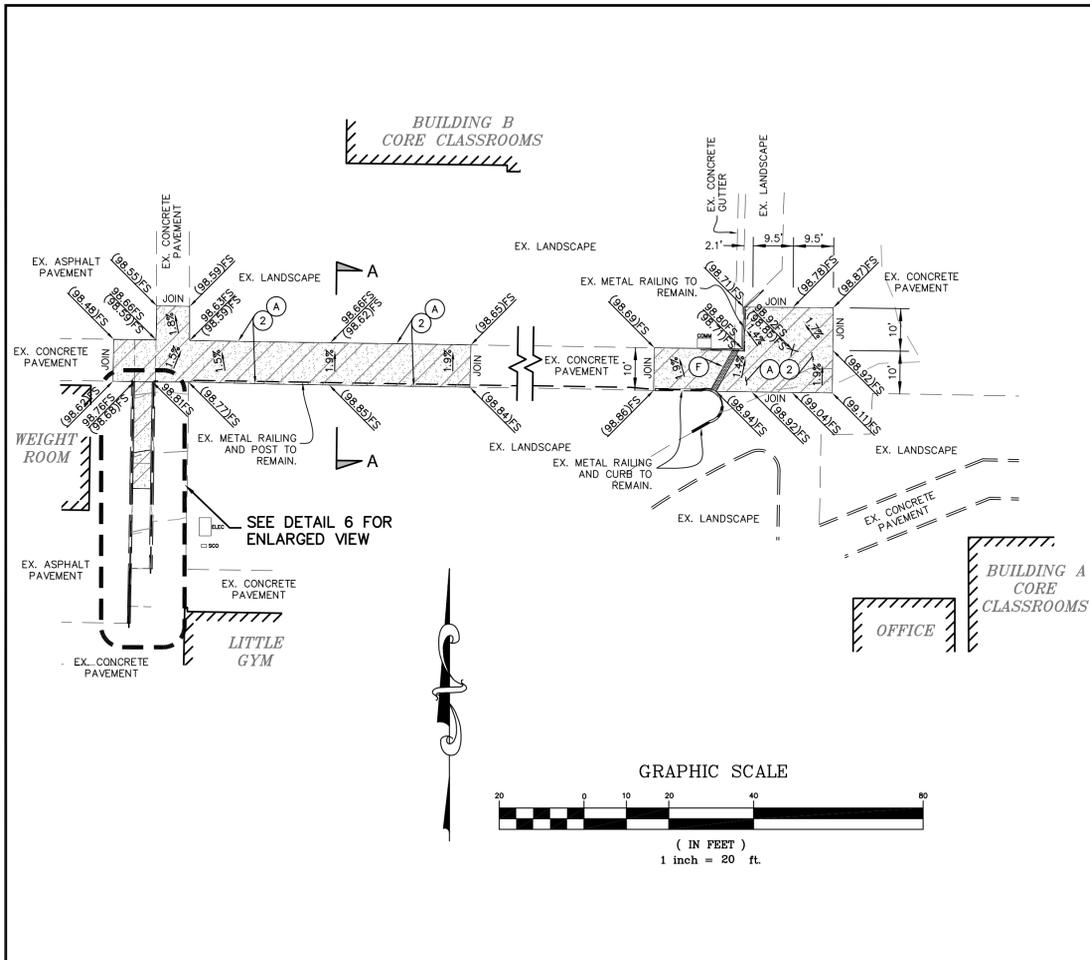
REVISIONS	BY



PROJECT: NEW SHADE STRUCTURE AND RELATED SITE WORK AT LANCASTER HIGH SCHOOL
44701 32ND ST. W., LANCASTER, CA 93536
SHEET NAME: ELECTRICAL SPECIFICATIONS SECTION 26 00 00 GENERAL ELECTRICAL REQUIREMENTS
DATE: ---
DRAWN: DA
JOB: ANT21-01e
SHEET:

E2.1
BID SET

LANCASTER HIGH SCHOOL

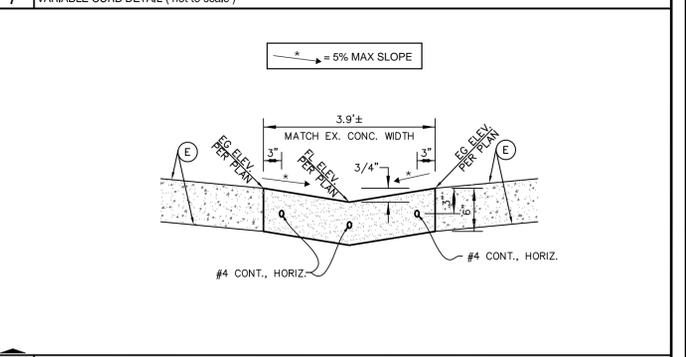
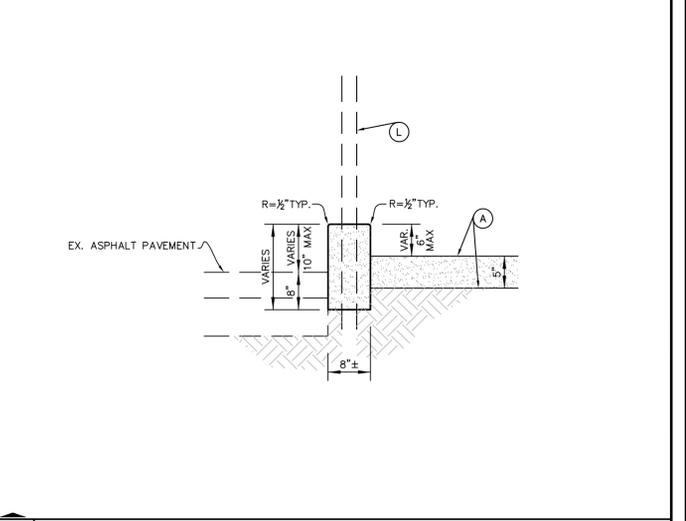
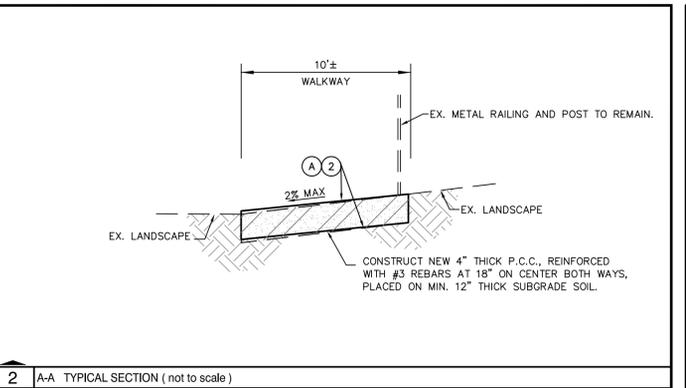


KEY NOTES

- (A) CONSTRUCT NEW 5" THICK P.C.C. (3000 PSI COMPRESSIVE STRENGTH) REINFORCED WITH #3 REBARS AT 18" ON CENTER BOTH WAYS, PLACED ON MIN. 12" THICK SUBGRADE SOIL COMPACTED TO MINIMUM 90% OF THE MAXIMUM DENSITY PER ASTM D1557.
- (B) NEW CHAIN LINK FENCE PER ARCHITECTURAL PLANS.
- (C) NEW SHADE STRUCTURE PER ARCHITECTURAL PLANS.
- (D) NOT USED.
- (E) CONSTRUCT NEW 6" THICK P.C.C. (3000 PSI COMPRESSIVE STRENGTH) REINFORCED WITH #4 REBARS AT 18" ON CENTER BOTH WAYS, PLACED ON MIN. 12" THICK SUBGRADE SOIL COMPACTED TO MINIMUM 90% OF THE MAXIMUM DENSITY PER ASTM D1557.
- (F) ADJUST EXISTING METAL RECTANGULAR DRAIN PIPE TO NEW GRADE. SEE ALSO DETAIL 5.
- (G) NOT USED.
- (H) CONSTRUCT THICKENED CONCRETE PAVEMENT EDGE PER DETAIL 3.
- (I) NOT USED.
- (J) CONSTRUCT RETAINING CURB AT FENCE LINE PER DETAIL 4.
- (K) CONSTRUCT CONCRETE CROSS GUTTER PER DETAIL 1.
- (L) REMOVE EXISTING HAND RAIL RETURN AT TOP OF RAMP AND EXTEND HAND RAIL WITH NEW RETURN TO THE END OF THE CURB. HAND RAILS SHALL COMPLY WITH CBC 11B-503.
- (M) CONSTRUCT CONCRETE CURB OF VARIABLE HEIGHT PER DETAIL 7.

DEMOLITION KEY NOTES

- (1) SAWCUT AND REMOVE EXISTING ASPHALT PAVEMENT.
- (2) SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT.
- (3) REMOVE EXISTING CHAIN LINK FENCE.
- (4) RELOCATE EXISTING STORAGE CONTAINER. COORDINATE WITH SCHOOL DISTRICT FOR NEW LOCATION.

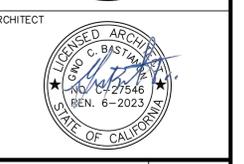
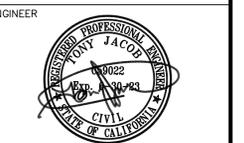


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REVIEWED FOR
SS FLS ACS
DATE: 10/05/2023

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NEW SHADE STRUCTURE AND A.D.A. PATH-OF-TRAVEL MITIGATION QUARTZ HILL HIGH SCHOOL 6040 W AVENUE L LANCASTER, CA 93536

GRADING IMPROVEMENT PLAN

PROJECT: NEW SHADE STRUCTURE AND A.D.A. PATH-OF-TRAVEL MITIGATION QUARTZ HILL HIGH SCHOOL 6040 W AVENUE L LANCASTER, CA 93536

DATE: 04/18/2022

DRAWN: LM

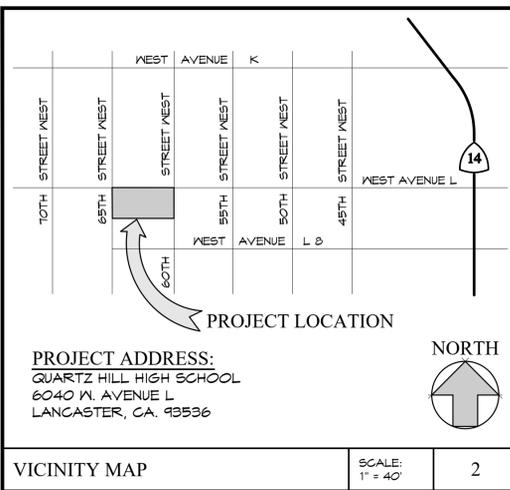
JOB: JT2316

SHEET: C-2

QUARTZ HILL HIGH SCHOOL

BID SET

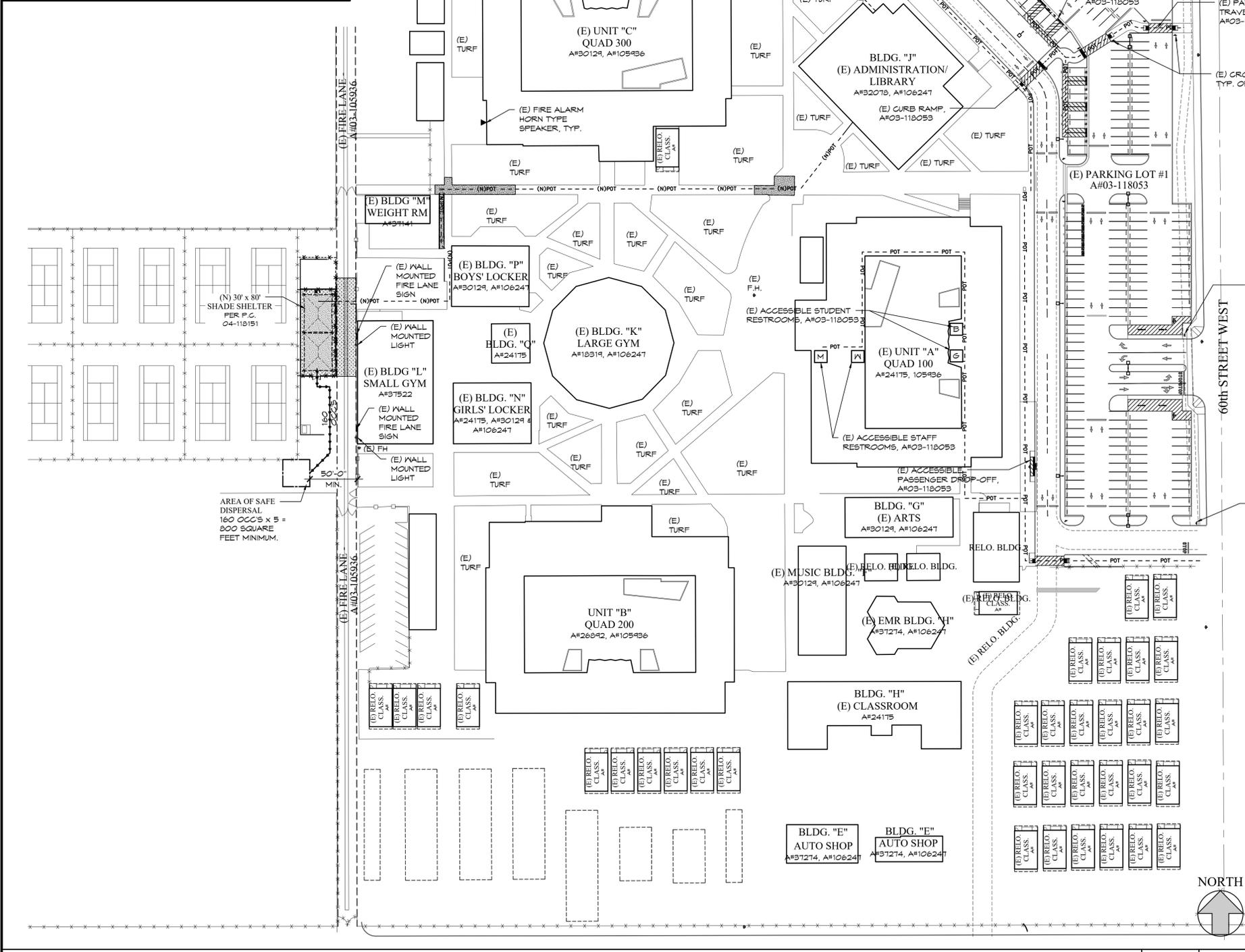
SHEET SIZE: ARCH D (24 X 36")
PLOT DATE: 10/27/2022 4:55 PM



PROJECT ADDRESS:
QUARTZ HILL HIGH SCHOOL
6040 W. AVENUE L
LANCASTER, CA. 93536

SCALE:
1" = 40'

2



OVERALL SITE PLAN

SCALE: 1" = 60'

1



810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply. Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for Buildings.

PROJECT INFORMATION

School District/Owner: ANTELOPE VALLEY UNION HIGH SCHOOL DISTRICT

Project Name/School: QUARTZ HILL HIGH SCHOOL

Project Address: 6040 W Ave L, Lancaster, CA 93536

FIRE & LIFE SAFETY INFORMATION

1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Refer to the following website for FHSZ locations: http://eqis.fire.ca.gov/FHSZ/	Moderate <input type="checkbox"/>	High <input type="checkbox"/>
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)	Very High <input type="checkbox"/>	WIFA <input type="checkbox"/>

DGS DSA 810 (revised 12/29/20)
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

Page 1 of 4

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION	ALTERNATE ACCEPTED			
	Yes	No	N/A	N/R
4. Emergency vehicle access roadways do not meet CFC requirements.				
4a. Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5. Fire Hydrants: Number and spacing does not meet CFC requirements.				
5a. Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.				
6a. Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7. Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				
7a. Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing life and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name: _____

LFA Review Official: _____

Title: _____ Work Phone: _____

Work Email: _____

LFA Reviewer's Signature: _____ Date: _____

DGS DSA 810 (revised 12/29/20)
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

Page 2 of 4

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APP: 03-122267 INC.
REVIEWED FOR
SS FLS ACS
DATE: 10/05/2023

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PROJECT:
NEW SHADE STRUCTURE AND RELATED SITE WORK
AT QUARTZ HILL HIGH SCHOOL
6040 W. AVE L, LANCASTER, CA 93536

SHEET NAME:
LOCAL FIRE AUTHORITY REVIEW

DATE: October, 2022
DRAWN:
JOB: ANT21-01g
SHEET:

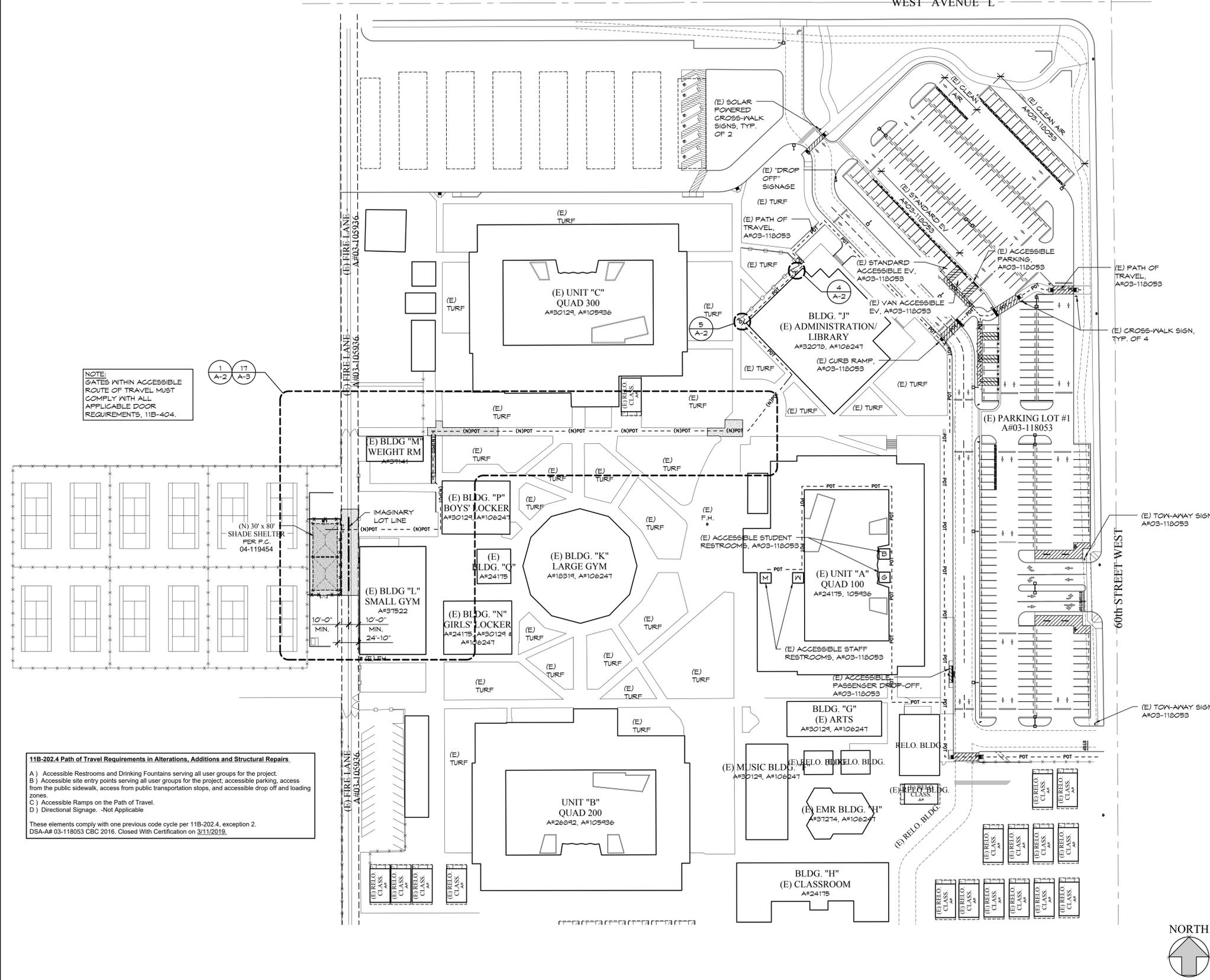
A0.1
BID SET

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SHEET SIZE: ARCH D (24 X 36) PLOT DATE: 10/27/2022 4:55 PM
Z:\ANTELOPE VALLEY\ANT21-01 - 555 - 1 VARIOUS SITES\ANT21-01G - QUARTZ HILL HS\ARCH\A-1 OVERALL SITE PLAN.DWG

BUILDING #/NAME	CHAPTER 3 OCCUPANCY GROUP	CHAPTER 6 TYPE OF CONSTRUCTION	ACTUAL FLOOR AREA (SQ. FT.)	FIRE SPRINKLERED	MAX. HEIGHT		AREA MODIFICATION (2019 CBC, SECTION 506)					RATIO ACTUAL/ALLOWABLE	TOTAL RATIO = <1	REMARKS			
					TABLE 504.4	ACTUAL	TABULAR AREA TABLE 506.2 (A)	WIDTH LIMITS (EQUATION 5-4) (W)	FRONTAGE INCREASE (EQUATION 5-5) If = (E/P-0.25)W/30						NS	AREA MODIFICATION (EQUATION 5-1) Aa = At + (NS x I)	
					STORIES	FEET	TABLE 504.3	ACTUAL	F=	P=	W=						FRONTAGE INCREASE (I)
NEW SHADE STRUCTURE S.S. #1	A-3	V-B	2,400	NS	1	1	40	10	6,000					6,000	0.40	0.40	
TOTAL BUILDING AREA (SQ. FT.):			2,400														

OCCUPANT LOAD:
2,400 SQ. FT. / 15 = 160 OCC'S MAX



NOTE:
GATES WITHIN ACCESSIBLE ROUTE OF TRAVEL MUST COMPLY WITH ALL APPLICABLE DOOR REQUIREMENTS, 11B-404.

11B-202.4 Path of Travel Requirements in Alterations, Additions and Structural Repairs.
 A) Accessible Restrooms and Drinking Fountains serving all user groups for the project.
 B) Accessible site entry points serving all user groups for the project; accessible parking, access from the public sidewalk, access from public transportation stops, and accessible drop off and loading zones.
 C) Accessible Ramps on the Path of Travel.
 D) Directional Signage. -Not Applicable
 These elements comply with one previous code cycle per 11B-202.4, exception 2. DSA# 03-118053 CBC 2016. Closed With Certification on 3/11/2019.

1. "DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."

2. ALL ITEMS ARE EXISTING (E) UNLESS NOTED NEW (N).

3. GRATINGS LOCATED IN THE SURFACE OF THE PEDESTRIAN WAY, IN THE PATH OF TRAVEL, GRID/OPENINGS IN GRATINGS SHALL BE LIMITED TO 1/2" MAX. IN THE DIRECTION OF TRAFFIC FLOW. GRATINGS TO BE MODIFIED IF REQUIRED.

4. REMOVE ALL GATE SIGNS THAT READ "LOCK".

NOTE:
 "ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP-RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL, ABOVE 27" AND LESS THAN 80" ABOVE THE FLOOR. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL."

PARKING COUNT
2019 CBC, TABLE 118-208.2

TOTAL # OF PARKING SPACES FROM	TO	# ACCESSIBLE SPACES
1	25	1
26	50	2
51	75	3
76	100	4
101	150	5
151	200	6
201	300	11
301	400	8
401	500	14
501	1000	1
1001	AND OVER	11

*2% OF TOTAL
 **20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000

PARKING LOT #1

REQUIRED	PROVIDED
# OF STANDARD PARKING SPACES:	233
# OF ACCESSIBLE SPACES:	1
OF THOSE, # OF VAN PARKING:	2
TOTAL PARKING SPACES:	240
CLEAN AIR VEHICLES:	22
STANDARD + CLEAN AIR TOTAL:	262
EVCS AT FACILITY:	17
OF THOSE, VAN ACCESSIBLE:	1
OF THOSE, STANDARD ACCESS:	1
OF THOSE, AMBULATORY:	0
TOTAL SPACES PROVIDED:	274

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PROJECT:
 NEW SHADE STRUCTURE AND RELATED SITE WORK
 AT QUARTZ HILL HIGH SCHOOL
 6040 W. AVE L, LANGCASTER, CA 95356

DATE: October, 2022
 DRAWN:
 JOB: ANT21-01g
 SHEET: OVERALL SITE PLAN

A-1

BID SET

OVERALL SITE PLAN

SCALE: 1" = 60'

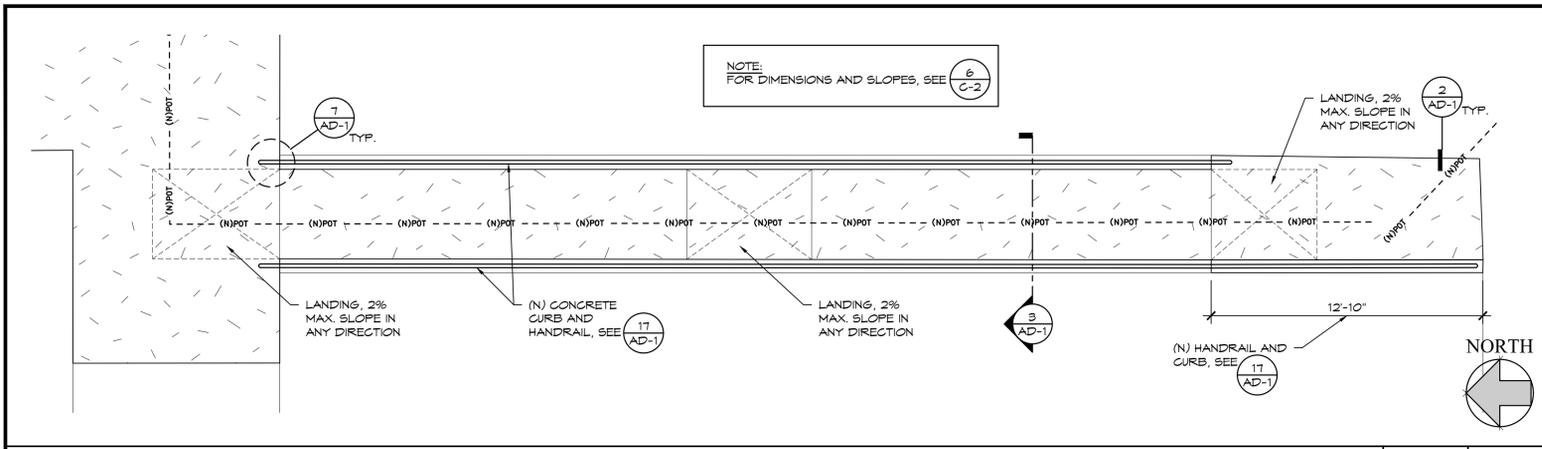
19

PARKING COUNT

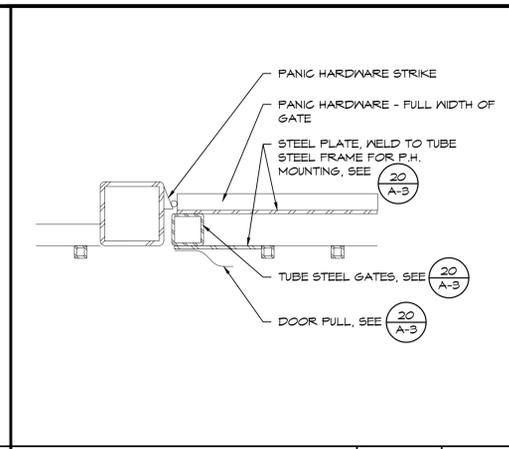
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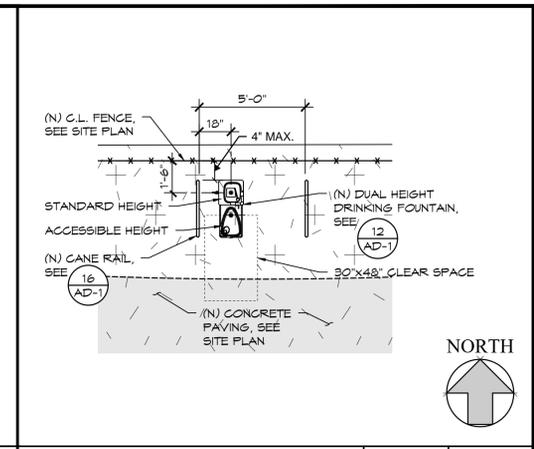
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PLOT DATE: 10/27/2022 4:56 PM



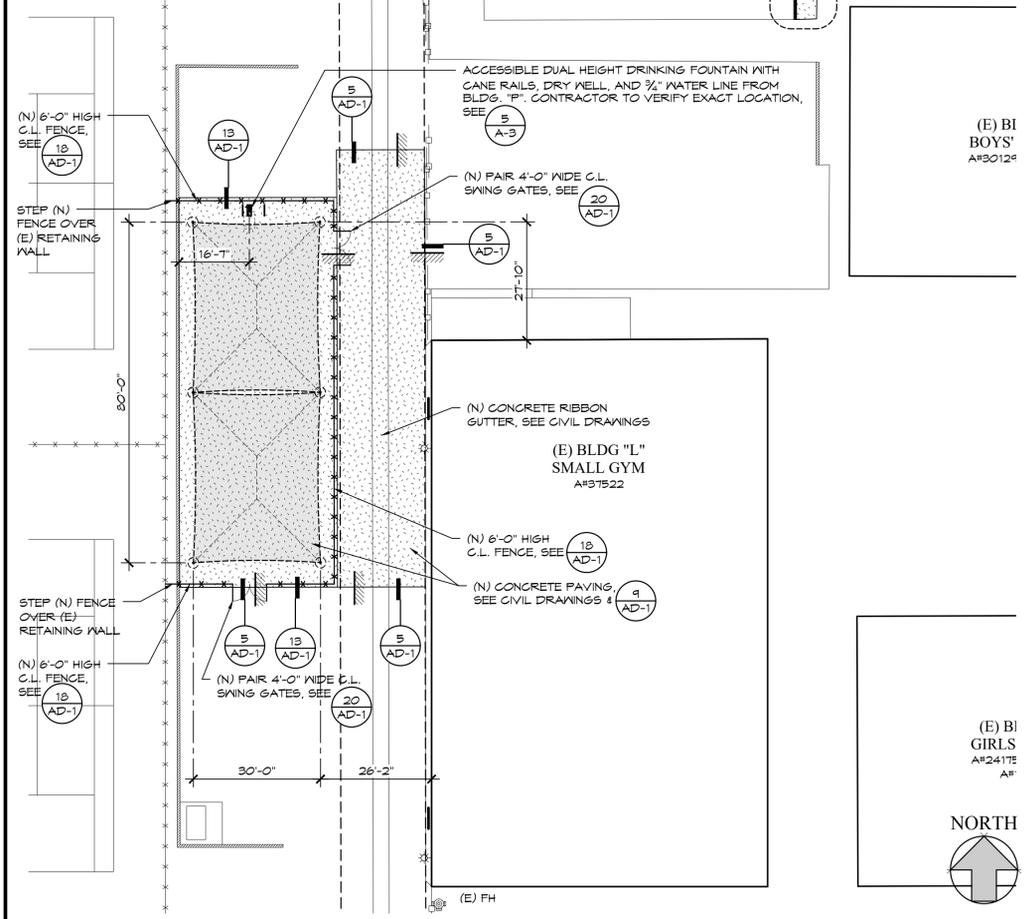
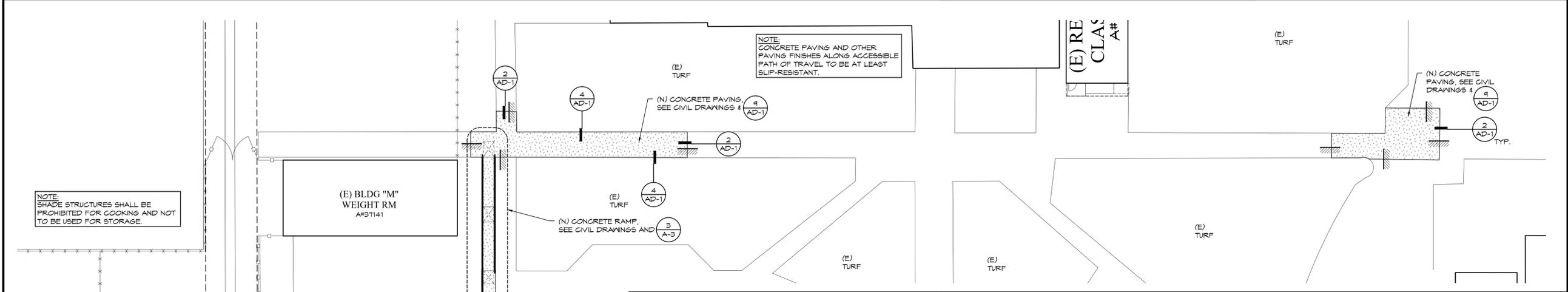
ENLARGED RAMP PLAN SCALE: 1/4" = 1'-0" 3



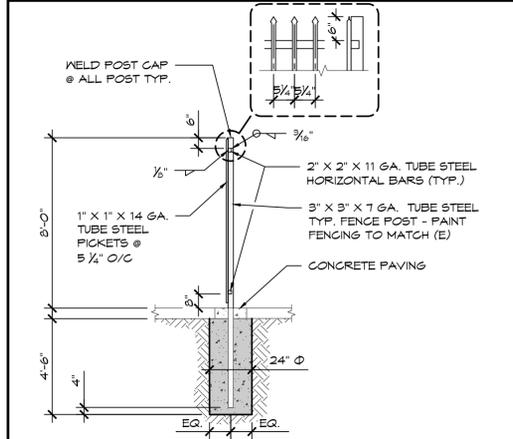
PANIC HARDWARE MOUNTING PLATE SCALE: 1/2" = 1'-0" 4



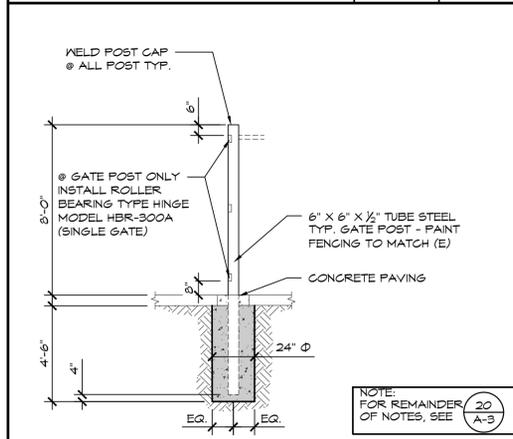
ENLARGED DRINKING FOUNTAIN PLAN SCALE: 1/4" = 1'-0" 5



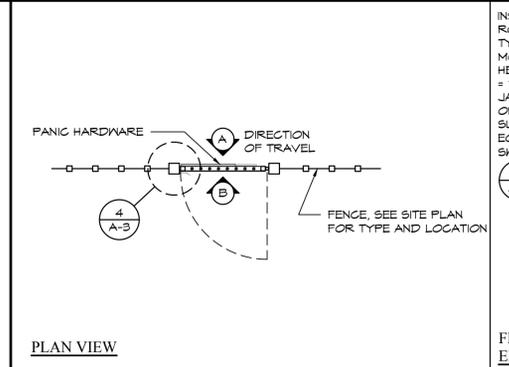
ENLARGED NEW SITE PLAN SCALE: 1" = 20' 17



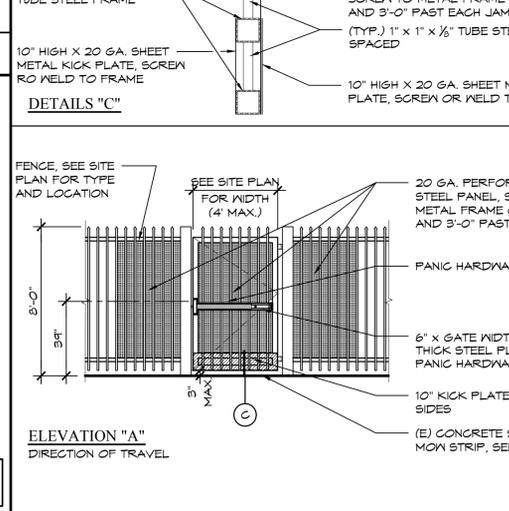
TUBE STEEL FENCE POST DETAIL SCALE: 1/4" = 1'-0" 13



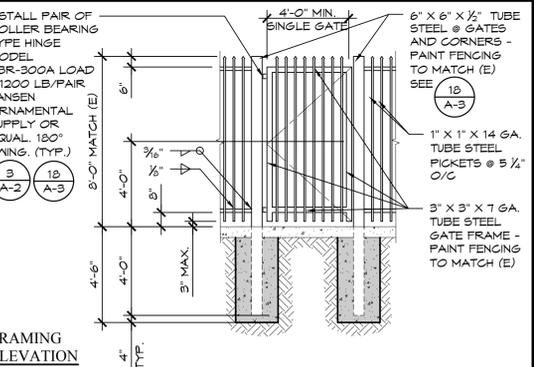
GATE OR CORNER POST SCALE: 1/4" = 1'-0" 18



ORNAMENTAL SWING GATE SCALE: 1/4" = 1'-0" 20



GATE HARDWARE SCALE: 1/4" = 1'-0" 20



ELEVATION "B" FULL SIDE OF GATE

QTY.	DESCRIPTION	MODEL NO.	MANUF.	FINISH
1	EXIT DEVICE	CD48NL-OP-PA	VON DUPRIN	SATIN
1	DOOR PULL	VR900LLP	VON DUPRIN	SATIN
1	IC RIM CYLINDERS	20-03T	SCHLAGE	SATIN
1	CORE	23-030	SCHLAGE	SATIN
1	KEY WAY	EYRES	SCHLAGE	SATIN
1	CLOSURE	INT SWINGER 300	INTL. DR. CLS.	SATIN

NOTES:
1. Door and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.
2. The force for pushing or pulling open a door or gate shall be as follows:
Exterior hinged doors or gates: 5 pounds (22.2 N) maximum.

GATE HARDWARE SCALE: 1/4" = 1'-0" 20

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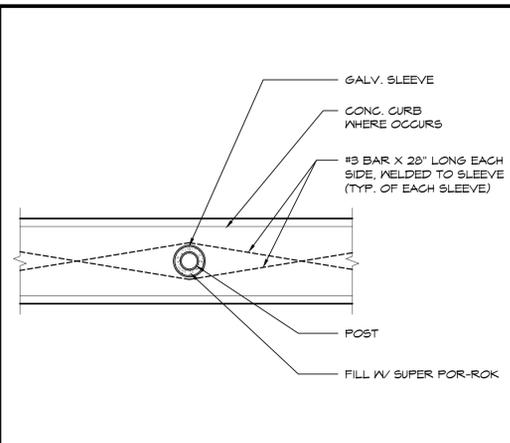


PROJECT: NEW SHADE STRUCTURE AND RELATED SITE WORK AT QUARTZ HILL HIGH SCHOOL
6040 N AVE L, LANCASTER, CA 93536
SHEET NAME: ENLARGED NEW SITE PLAN

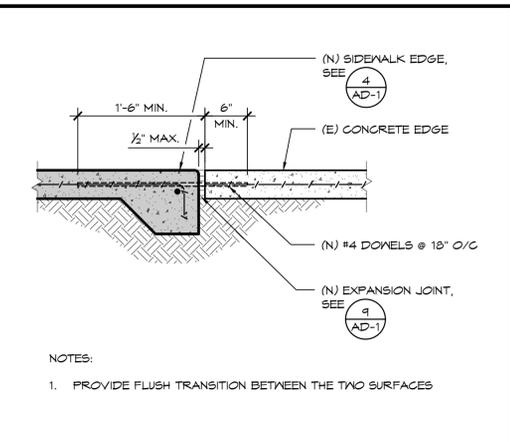
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SHEET: A-3

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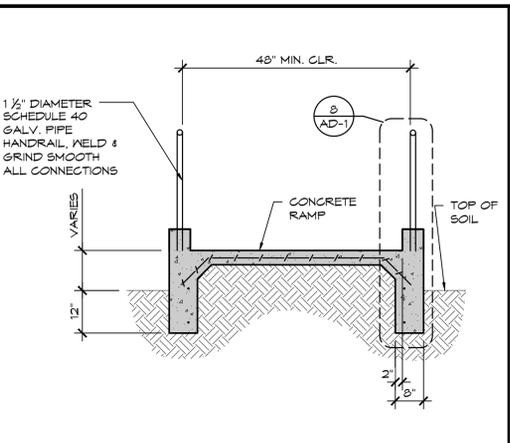
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PLOT DATE: 10/27/2022 4:56 PM



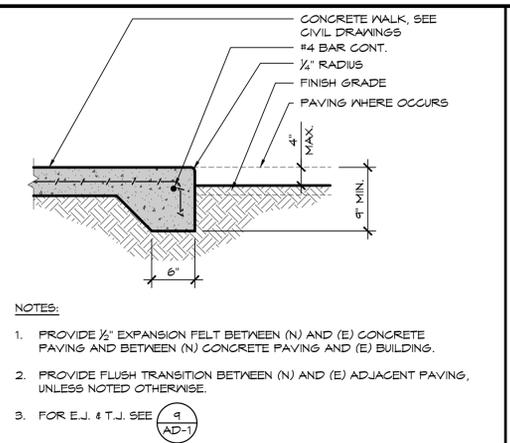
RAILING SLEEVE PLAN SCALE: 1/2" = 1'-0" 02-033A REV 1



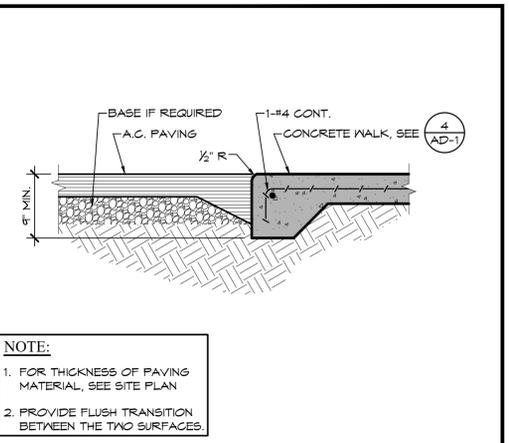
JOINT AT (N) AND (E) CONCRETE PAVING SCALE: 1" = 1'-0" 02-017E REV 2



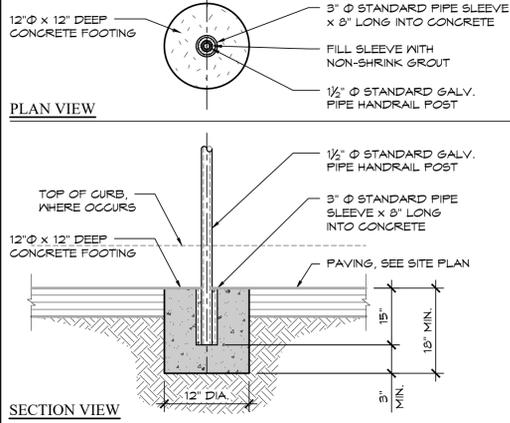
RAMP CROSS-SECTION SCALE: 1/2" = 1'-0" 02-000 REV 3



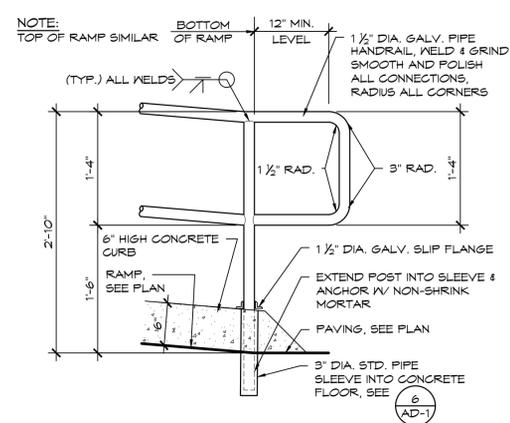
SIDEWALK EDGE SCALE: 1" = 1'-0" 02-017A REV 4



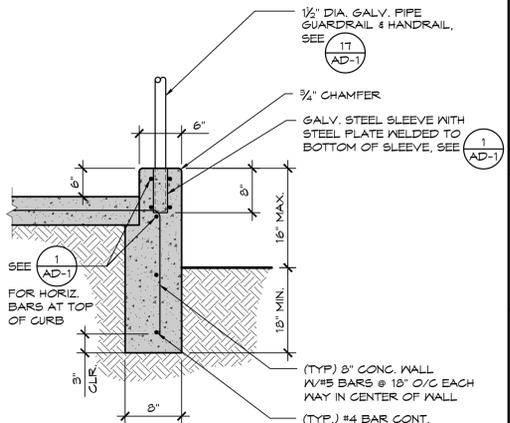
A.C. PAVING AT CONCRETE PAVING SCALE: 1" = 1'-0" 02-017C REV 5



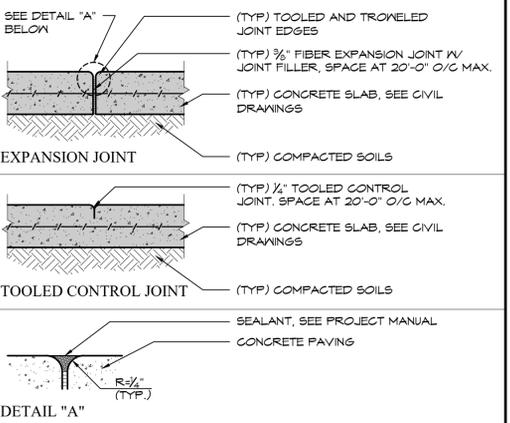
RAILING SLEEVE SECTION SCALE: 1" = 1'-0" 02-002E REV 6



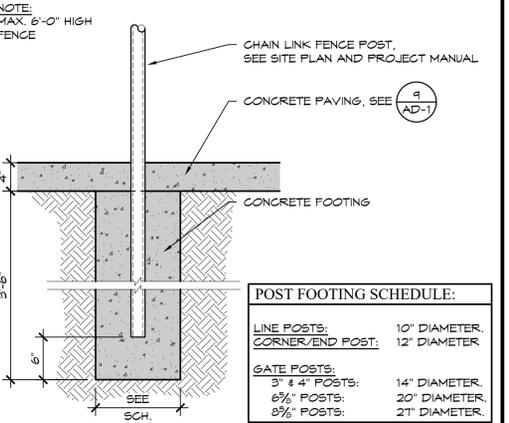
HANDRAIL EXTENSION SCALE: 1" = 1'-0" 02-001 REV 7



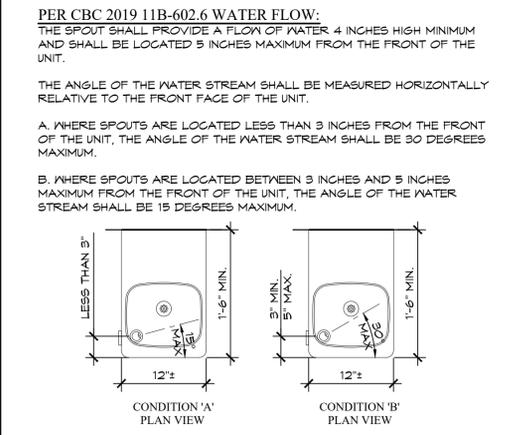
HANDRAIL SECTION SCALE: 1" = 1'-0" 02-002 REV 8



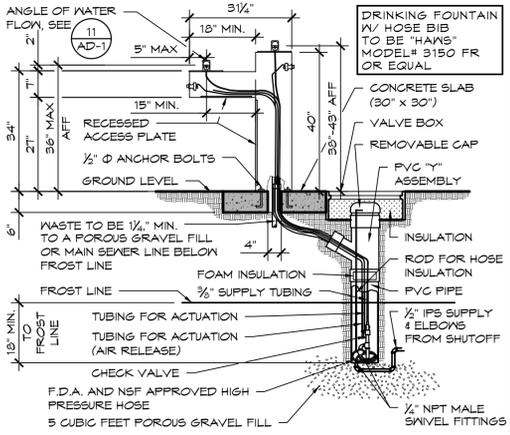
JOINTS IN CONCRETE PAVING SCALE: 1/2" = 1'-0" 02-018A REV 9



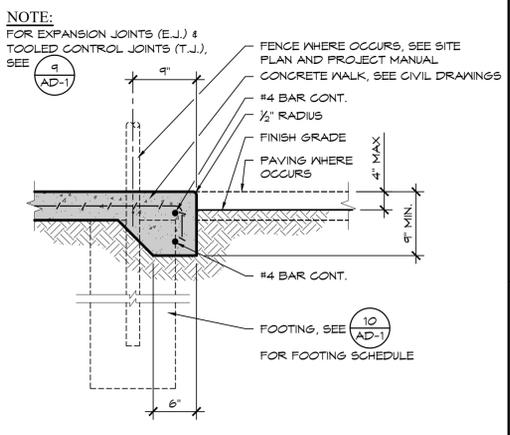
CHAIN LINK POST FOOTING SCALE: 1" = 1'-0" 02-031A REV 10



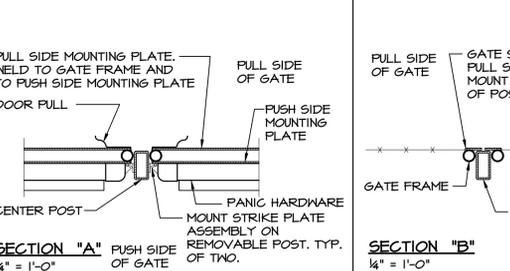
DRINKING FOUNTAIN SPOUT ANGLE SCALE: 1" = 1'-0" 11



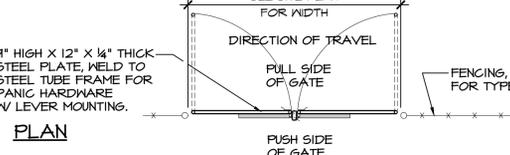
FREEZE-RESISTANT BARRIER FREE DRINKING FOUNTAIN SCALE: 1/2" = 1'-0" 10-031 REV 12



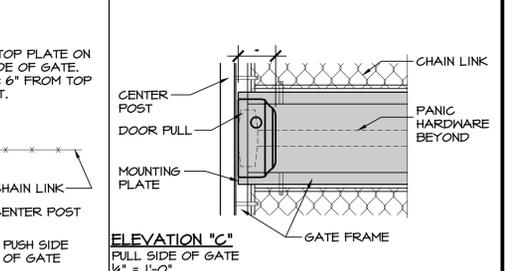
FENCE @ CONCRETE EDGE SCALE: 1" = 1'-0" 02-031B REV 13



SECTION "A" PUSH SIDE OF GATE 1/4" = 1'-0" SECTION "B" PUSH SIDE OF GATE 1/4" = 1'-0"



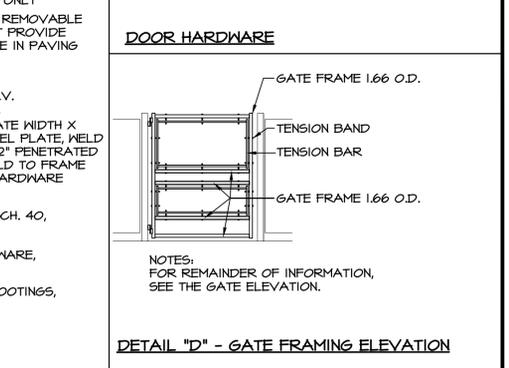
PLAN 4\"/>



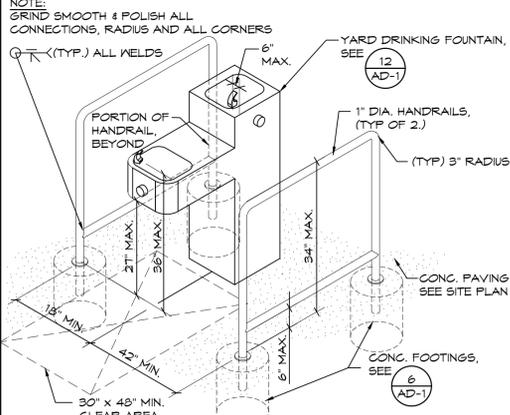
ELEVATION "C" FULL SIDE OF GATE 1/4" = 1'-0"

QTY.	DESCRIPTION	MATERIAL	FINISH
1-1/2	PAIR BUTTS	NO.1	5X5NRP U532D
2	CYLINDERS	A5 REQD.	U526D
2	16 RIM CYLINDERS	20-051T	SATIN
2	CORE	23-030	SATIN
2	DOOR PULL	VR400LLP	SATIN
2	EXIT DEVICE	CD48L-OP	VON DUFRIN

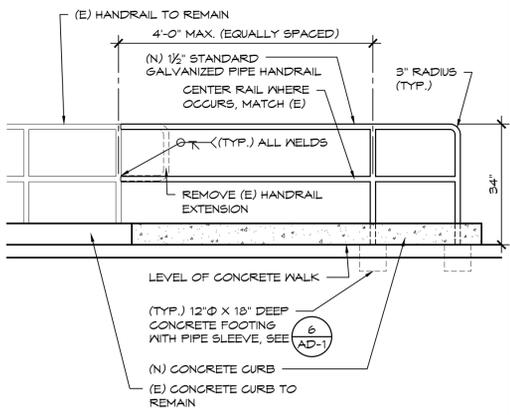
DOOR HARDWARE



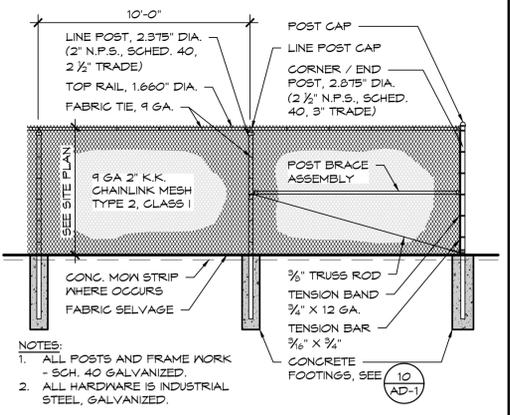
DETAIL "D" - GATE FRAMING ELEVATION



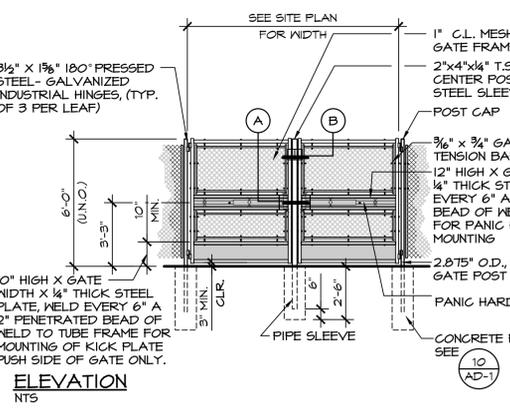
DUAL HEIGHT DRINKING FOUNTAIN SCALE: 1/4" = 1'-0" 16



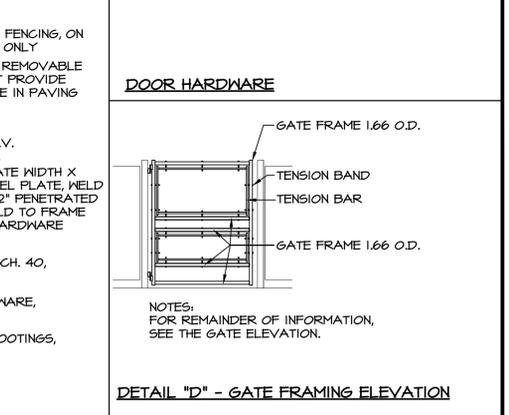
RAILING DETAIL SCALE: 1/2" = 1'-0" 02-048B REV 17



CHAIN LINK FENCE ELEVATION SCALE: 1/4" = 1'-0" 02-031B REV 18



CHAIN LINK SWING GATES WITH PANIC HARDWARE AND REMOVABLE POST SCALE: 1/4" = 1'-0" 19



DETAIL "D" - GATE FRAMING ELEVATION

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ENGINEER

ARCHITECT



NEW SHADE STRUCTURE AND RELATED SITE WORK
AT QUARTZ HILL HIGH SCHOOL
6040 N AVE L, LANGCASTER, CA 95356

DATE: October, 2022
DRAWN:
JOB: ANT21-01g
SHEET: 19

AD-1
BID SET

Z:\ANTELOPE VALLEY\ANT21-01 - 555 - 7 VARIOUS SITES\ANT21-01g - QUARTZ HILL HS\ARCH\AD-1 DETAILS.DWG

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GENERAL NOTES

- ALL COMMUNICATIONS WORK SHALL BE COORDINATED WITH THE COMMUNICATION SYSTEMS MANUFACTURER AND THE SCHOOL DISTRICT MAINTENANCE DEPARTMENT PRIOR TO ROUGH-IN AND INSTALLATION OF ANY AND ALL COMMUNICATION SYSTEM DEVICES AND RELATED CONDUIT AND WIRE.
- THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES AND THE UTILITY COMPANIES.
- NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.
- ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THIS CONTRACTOR.
- MFP COMPONENT ANCHORAGE NOTE**

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1611A.1.1.8 THROUGH 1611A.1.2.6 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER, "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENTS IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1611A.1.2.4, 1611A.1.2.5, AND 1611A.1.2.6.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. OSHFD OPM FOR 2019 CBC OR LATER). COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E).

MFP MD PP E - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECTS SPECIFIC NOTES AND DETAILS.

MFP MD PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHFD PRE-APPROVAL (OPM) #.

- THIS CONTRACTOR SHALL COORDINATE ALL LINE AND LOW VOLTAGE COMPONENTS AND WIRING TYPES TO MATCH EXISTING SYSTEMS, WITH THE SCHOOL DISTRICT PRIOR TO BID AND INCLUDE ALL COSTS FOR A COMPLETE OPERABLE SYSTEM EXPANSION.
- ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH EXISTING FINISH.
- IDENTIFICATION NAME PLATES FOR PANELS AND SWITCHBOARDS/DISTRIBUTION PANEL FEEDER CIRCUIT BREAKERS SHALL MATCH THE NOMENCLATURE PROVIDED BY THE OWNER AT THE END OF THE CONTRACT.
- ALL EXTERIOR MOUNTED EQUIPMENT SHALL BE WEATHERPROOF AND PROVIDED IN A WEATHERPROOF ENCLOSURE.
- INSTALL RACEWAY SYSTEMS AS FOLLOWS:
 - RIGID GALVANIZED STEEL IN ALL OUTDOOR LOCATIONS AND IN INDOOR LOCATIONS WHERE SUBJECT TO PHYSICAL DAMAGE.
 - IMC, OR EMT, IN ALL INDOOR AREAS.
 - FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO LIGHT FIXTURES, MOTORS, VIBRATING ELECTRICAL EQUIPMENT AND HORIZONTAL RUNS IN WOOD STUD WALLS.
 - PVC CONDUIT FOR UNDERGROUND RUNS. USE 20 MIL PVC TAPED RIGID STEEL RISER ELBOWS AND RISERS FOR CONDUIT STUB-UPS.
 - USE COMPRESSION TYPE FITTINGS FOR ALL METALLIC CONDUIT.
 - 3/4" CONDUIT MINIMUM FOR UNDERGROUND INSTALLATIONS. 3/4" CONDUIT MINIMUM INDOORS.
- ALL WIRING SHALL BE COPPER.
- PROVIDE THE OWNER AND THIS ENGINEER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF JOB.
- CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL ROUTING OF CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRACES. THE CONTRACTOR SHALL INSTALL ALL CONDUIT, JUNCTION/FULL BOXES, ETC., AS REQUIRED FOR A COMPLETE SYSTEM IN FULL COMPLIANCE WITH ALL APPLICABLE CODES.

- ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH GOVERNING CODES.
- ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL - U.O.N.
- COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF TWO (2) YEARS - U.O.N.
- ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT, FIXTURES DEVICES, FEEDERS, ETC. EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTORS SHALL IMMEDIATELY NOTIFY THIS ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED.
- ALL EQUIPMENT ELECTRICAL CHARACTERISTICS, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.
- IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
- THE CONTRACTOR SHALL STRATEGICALLY LOCATE JUNCTION BOXES AND FULL BOXES, ETC., IN ACCESSIBLE CEILING SPACES. PROVIDE ACCESS PANELS WHERE JUNCTION/FULL BOXES ARE LOCATED IN INACCESSIBLE CEILING SPACES. COORDINATE LOCATION OF REQUIRED ACCESS PANELS PRIOR TO ROUGH-IN.
- UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

SYMBOL LIST

- CONDUIT RUN ABOVEGROUND, 3/4" MINIMUM.
- UNDERGROUND CONDUIT, 1" PVC MINIMUM.
- BRANCH CIRCUIT PANELBOARD, FLUSH OR SURFACE MOUNTED AS INDICATED.
- CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #2 WIRES CONTAINED THEREIN. TWO #2 ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #2.
- CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER.
- CONDUIT TURNED DOWN.
- EXISTING CONDUIT TO BE RE-USED. CONDUCTORS TO BE DISCONNECTED AND REMOVED.
- EXISTING CONDUIT WITH NEW CONDUCTORS.
- DUPLEX RECEPTACLE, WITH GROUND FAULT INTERRUPTER (20 AMP, 120V, 3W, WALL PLATE TO MATCH DEVICE) MTD. AT #8.
- EXISTING TO MATCH.
- NEW EQUIPMENT.
- WEATHERPROOF.
- DETAIL CALLOUT.
- JUNCTION BOX.

APPLICABLE CODES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS, AND THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS (C.C.R.), TITLE 24, INCLUSIVE OF: 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), C.C.R. TITLE 24, PART 1
2019 CALIFORNIA BUILDING CODE (CBC), C.C.R. TITLE 24, PART 2, BASED ON 2018 INTERNATIONAL BUILDING CODE.
2019 CALIFORNIA ELECTRICAL CODE (CEC), C.C.R. TITLE 24, PART 3, BASED ON 2011 NATIONAL ELECTRICAL CODE (NEC).
2019 CALIFORNIA MECHANICAL CODE (CMC), C.C.R. TITLE 24, PART 4, BASED ON 2018 UNIFORM MECHANICAL CODE (UMC).
2019 CALIFORNIA PLUMBING CODE (CPC), C.C.R. TITLE 24, PART 5, BASED ON 2018 UNIFORM PLUMBING CODE (UPC).
2019 CALIFORNIA ENERGY CODE, C.C.R. TITLE 24, PART 6.
2019 CALIFORNIA FIRE CODE (CFC), C.C.R. TITLE 24, PART 9, BASED ON 2018 INTERNATIONAL FIRE CODE.
2019 CALIFORNIA EXISTING BUILDING CODE, C.C.R. TITLE 24, PART 10, BASED ON 2018 INTERNATIONAL EXISTING BUILDING CODE.
2019 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24, PART 12.

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DATE: 10/05/2023

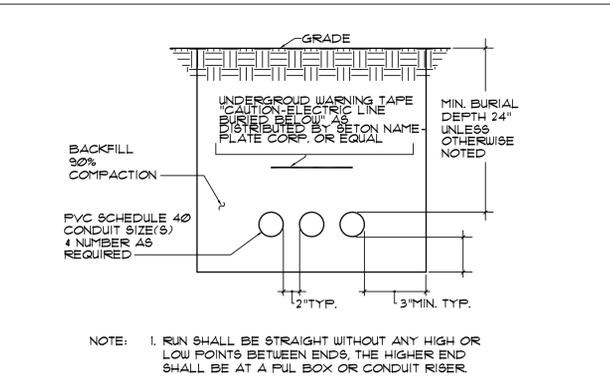
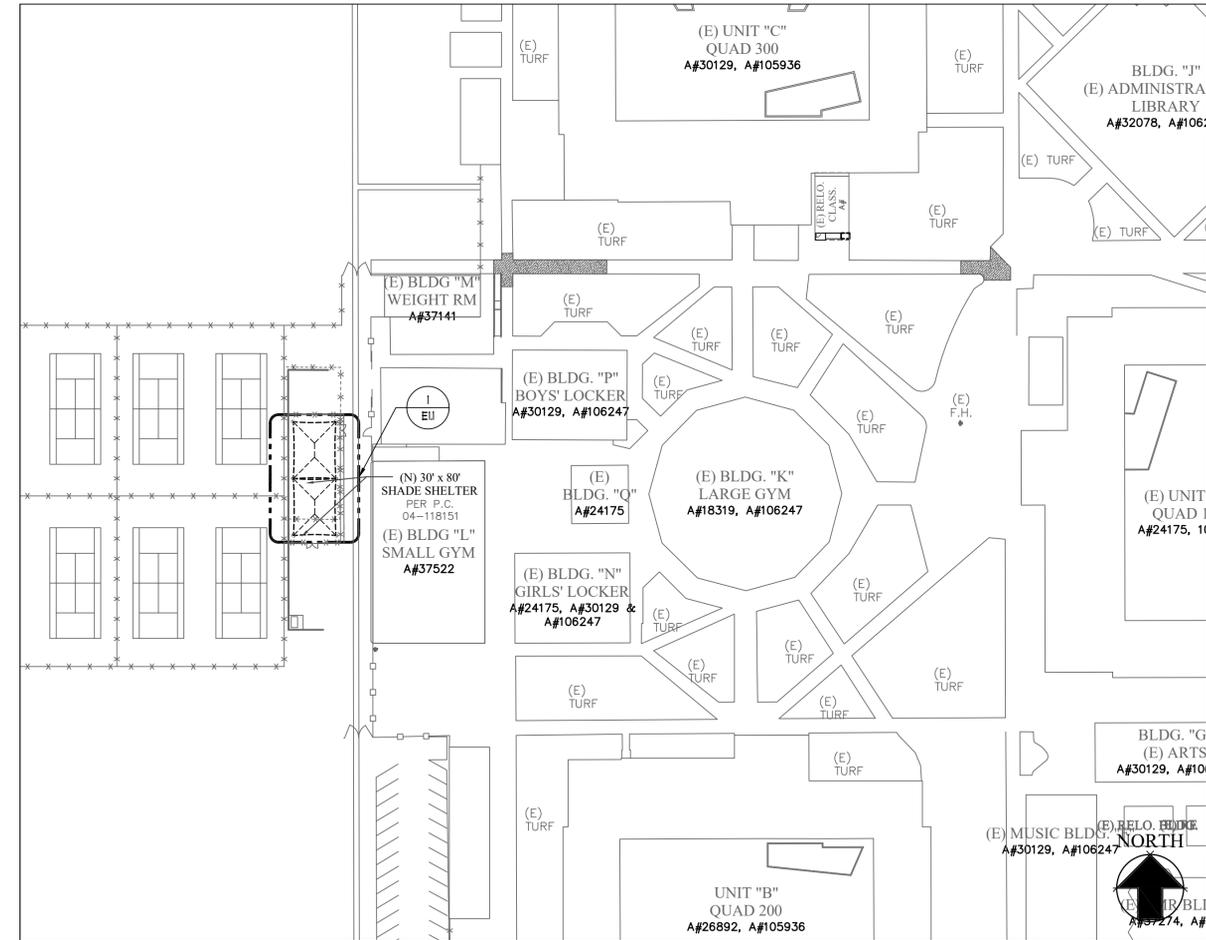
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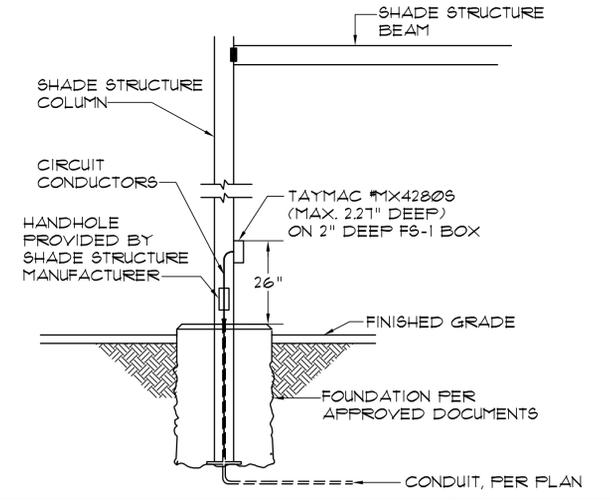
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No. E17229
8/30/22
STATE OF CALIFORNIA

ARCHITECT
C. BASTIEN
REGISTERED ARCHITECT
No. A17754
REN. 6-2023
STATE OF CALIFORNIA

PROJECT: NEW SHADE STRUCTURE AND RELATED SITE WORK AT QUARTZ HILL HIGH SCHOOL
6040 W AVE L, LANCASTER, CA 93536
SHEET NAME: GENERAL NOTES, SYMBOL LIST, SITE PLAN AND DETAILS
DATE: _____
DRAWN: DA
JOB: ANT21-01g
SHEET: _____

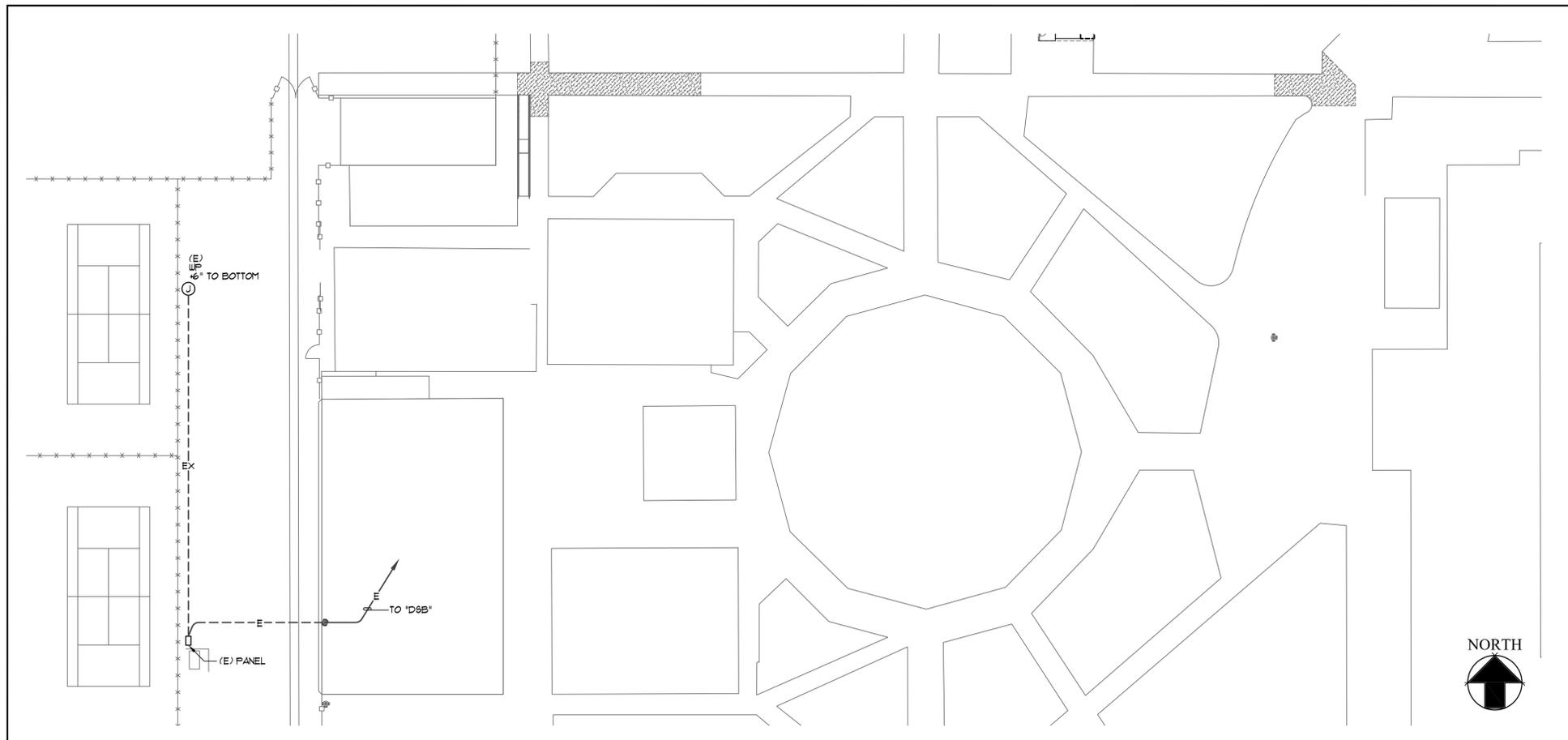


UNDERGROUND DUCT BANK SCALE: NONE 2



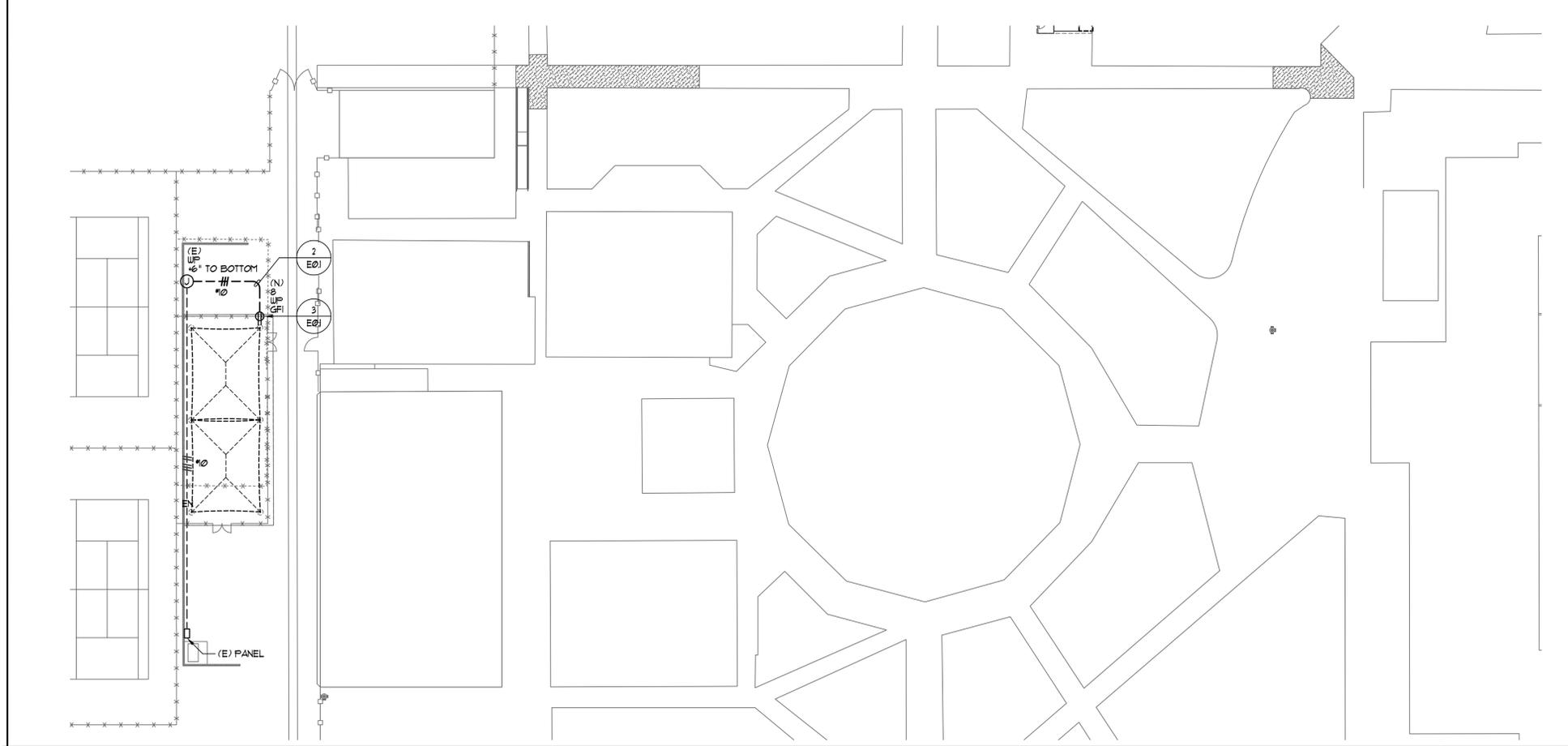
SHADE STRUCTURE N.T.S. 3

OVERALL SITE PLAN 1"=60" 1



DEMOLITION POWER SITE PLAN

SCALE: 1" = 30' 1



REMODEL POWER SITE PLAN

SCALE: 1" = 30' 2

PLAN NOTES

- ① REFER TO DRAWING E01 SINGLE LINE DIAGRAM FOR POWER CONDUIT SIZE AND WIRE QUANTITIES.
- ② CONDUIT AND WIRE INDICATED ON THE SINGLE LINE DIAGRAM, WHETHER SHOWN ON THIS DRAWING OR NOT, SHALL BE A PART OF THIS CONTRACT AND THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE REQUIRED ROUTING TO MEET THE INTENT OF THESE PLANS AND SPECIFICATIONS.
- ③ CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL ROUTING OF UNDERGROUND CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES.
- ④ IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. CONDUIT SUB-UPS SHALL NOT BE INSTALLED IN FOOTINGS. EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTING LOCATIONS SHALL BE COORDINATED IN THE FIELD WITH THE GENERAL CONTRACTOR AND THE ARCHITECT.
- ⑤ REFER TO DRAWING E01, GENERAL NOTES, FOR ADDITIONAL REQUIREMENTS.

EXISTING

PANEL	VOLTAGE 208/120V-4-WIRE		BUS SIZE				SCA EXISTING				
	LOCATION	MECH. YARD	COPPER: 100A.				MOUNT	SURFACE ENTRY			
DESCRIPTION	CKT	BKR	P	LTS	REC	MSC	MTR	A-VA	B-VA	C-VA	AMPS
MAIN CIRCUIT BREAKER	1	100	3					9600			
W/ CKT 1	3								9600		
W/ CKT 1	5									9600	
EXISTING LOAD	7	30	2					2880			
W/ CKT 7	9								2880		
EXISTING LOAD	11	20	1							1920	
SUB TOTAL VOLTAMPS:								12480	12480	11520	
SPACE	2	20	1								
SPACE	4	20	1								
SPACE	6	20	1								
SHADE STRUCTURE RECPT.	8	20	1		1			180			
EXISTING LOAD	10	15	1						1400		
EXISTING LOAD	12	15	1							1400	
SUB TOTAL VOLTAMPS:								180	1400	1400	
PANEL SUB TOTAL VOLTAMPS:								12660	13880	12920	
TOTAL LCL/PHASE:								0	0	0	
TOTAL VOLTAMPS:								12660	13880	12920	
TOTAL AMPS/PHASE:								106	116	108	
CONNECTED:		39460 VA									
25% OF MTR:		VA									
25% OF LCL:		0 VA									
CALCULATED:		39460 VA		=		109.53		AVERAGE AMPS			

* = INDICATES EXISTING LOAD TO REMAIN, BASED ON FULL LOAD RATING OF CIRCUIT BREAKER.
 Δ = INDICATES NEW LOAD AND NEW CIRCUIT BREAKER AT EXISTING SPACE. NEW CIRCUIT BREAKER TO MATCH EXISTING IN MANUFACTURER AND DUTY TYPE.

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ARCHITECT

 LICENSED ARCHITECT
 No. C-27546
 REN. 6-2023
 STATE OF CALIFORNIA

PROJECT:
 NEW SHADE STRUCTURE AND RELATED SITE WORK
 AT QUARTZ HILL HIGH SCHOOL
 6040 W AVE L, LANCASTER, CA 93536

SHEET NAME:
 DEMOLITION & DEMOLITION POWER SITE PLAN

DATE: ---
 DRAWN: DA
 JOB: ANT21-01g
 SHEET:

E1.1
 BID SET

QUARTZ HILL HIGH SCHOOL

SECTION 26 00 00
 GENERAL ELECTRICAL REQUIREMENTS

PART 1 - GENERAL
 1.1 SCOPE
 A. Work of this section includes everything necessary for or incidental to completing the electrical work, to provide a complete and operable electrical system, except as here in specifically excluded.

1.2 GENERAL REQUIREMENTS
 A. Electrical System Characteristics: 208/120V, 3PH, 4W.
 B. Guarantee: Furnish a written guarantee for a period of one- year from date of acceptance.
 C. Codes and Regulations: Workdone under this Section shall comply with the latest edition of the following: California Electrical Code, State of California Title 24, State Building Standards, Occupational Safety and Health Administration (OSHA) requirements, State of California Title 17 and to all local codes having jurisdiction. In the case where the codes have different levels of requirements, the most stringent rule shall apply.
 D. Wherever a discrepancy in quantity or size of conduit, wire, equipment, devices, circuit breakers, etc., (all materials), arises on the drawings and/or Specifications, the Contractor shall be responsible for providing and installing all material and services required by the strictest condition noted on Drawings and/or in Specifications to insure complete and operable systems as required by the Owner and Engineer.
 E. The General and Supplementary Conditions, as well as Special Conditions apply in addition to items in the Electrical Section. Special attention is directed to the following sections:

- Drawings and Specifications at the site.
 - Shop drawings and samples.
 - Record drawings.
 - Cutting and Patching.
 - Cleaning up.
 - Guarantee.
 - Tests.
- F. Additional Work: Refer to Mechanical and Plumbing specifications for additional Electrical requirements.
- G. Provide minimum of twenty percent (20%) spare receptacle size specified on plan.
- H. Testing:
- Scan:
 - Infrascan test of the existing power distribution system affected by the building addition (i.e. panels, switchboards) and the new branch circuit panels shall be required.
 - Infrascan certified reports shall be submitted on completion to the Owner and Engineer.
 - Scans shall be performed by an independent testing laboratory with total connected loads in operation.
 - Megger:
 - New branch circuit - phase, neutral and ground conductors.
 - New insulated bonding conductors.

- All circuits shall be tested for continuity and circuit integrity. Adjustments shall be made for circuits not complying with testing criteria.
- Grounding System: Shall be tested by an independent testing laboratory to meet resistance specified in Part 3, 1, D, 3 of these Specifications. It shall be this Contractor's responsibility to make adjustments, as required, to upgrade non complying systems to proper and safe operation.
- All certified testing reports shall be submitted to the Owner at completion of project

- I. All Core Cutting, Drilling, and Patching:
- For the installation of work under this Section, the aforementioned shall be performed under this Section of the Specifications and the Concrete section of the Specifications.
 - No holes will be allowed in any structural members without the written approval of the Structural Engineer.
 - For penetrations of concrete slabs or concrete footings, the work will be as directed in the Concrete Section of Specifications.
 - The contractor shall be responsible for patching and repairing surfaces where he is required to penetrate for work under this contract.
 - Penetrations shall be sealed to meet the rated integrity of the surface required to be patched and repaired. The patched surface shall be painted or finished to match the existing surface.

- J. Verifying Drawings and Job Conditions:
- This Contractor shall examine all Drawings and Specifications in a manner to be fully cognizant of all work required under this Section.
 - This Contractor shall visit the site and verify existing conditions. Where existing conditions differ from Drawings, adjustment shall be made and allowances included for all necessary equipment to complete all parts of the Drawings and Specifications.

- K. Shop Drawings:
- Drawings shall be submitted in six (6) bound sets accompanied by Letter of Transmittal, which shall give a list of the number and dates of the drawings submitted. Drawings shall be complete in every respect and bound in sets.
 - The Drawings submitted shall be marked with the name of the project, numbered consecutively and bear the approval of the Contractor as evidence that the Drawings have been checked by the Contractor. Any Drawings submitted without this approval will be returned to the Contractor for resubmission.
 - If the shop drawings show variations from the requirements of the Contract because of standard shop practice or other reasons, the Contractor shall make specific mention of such variations in his letter of transmittal. If the substitution is accepted, the Contractor shall be responsible for proper adjustment which may be caused by the substitution. Samples shall be submitted when requested.

- L. Drawings of Record: The Contractor shall provide and keep up- to-date, a complete record set of blueprints. These shall be corrected daily and show every change from the original Drawings. This set of prints shall be kept on the job site and shall be used only as a record set. This shall not be construed as authorization for the Contractor to make changes in the layout without definite instruction in each case. Upon completion of the work, a set of reproducible Contract Drawings shall be obtained from the General Contractor and all changes as noted on the record set of prints shall be incorporated thereon with black ink in a neat, legible, understandable and professional manner. Refer to the Supplementary General Conditions for complete requirements.

1.3 WORK IN COOPERATION WITH OTHER TRADES
 A. Examine the Drawings and Specifications and determine the work to be performed by the site utilities contractor, electrical, mechanical, plumbing, building contractor and other trades. Provide the type and amount of electrical materials and equipment necessary to place this work in proper operation, completely wired, tested and ready for use. This shall include all conduit, wire, disconnects, relays, and other devices for the required operation sequence of all electrical, mechanical and other systems or equipment.
 B. Provide power and control circuits, conduit and wire as indicated on the Mechanical and Plumbing drawings as required for complete and operable systems.
 C. The electrical contractor shall be responsible for obtaining back -boxes for all communication/signal system devices/equipment from the low voltage contractor's for rough-in. He shall coordinate the delivery of the backboxes to avoid building construction delays. In the event that the backboxes are not delivered as scheduled, the electrical contractor shall be responsible for installing the correct backboxes, patching and refinishing walls disturbed by the installation of the subject backboxes.

1.4 TESTING AND ADJUSTMENT
 A. Upon completion of all electrical work, this Contractor shall test all circuits, switches, motors, breakers, motor starter(s) and their auxiliary circuits and any other electrical items to insure perfect operation of all electrical equipment.
 B. Equipment and parts in need of correction and discovered during such testing shall be immediately repaired or replaced with all new equipment and that part of the system shall then be retested. All such replacement or repair shall be done at no additional cost to the Owner.
 C. All circuit shall be tested for continuity and circuit integrity. Adjustments shall be made for circuits not complying with testing criteria.
 D. All certified testing reports shall be submitted to the Engineer at completion of project.

1.5 IDENTIFICATION
 A. Identification nameplates shall be Micarta 1/8" thick and of approved size, with bevelled edges and engraved white letters 1/4" high minimum on black background. Nameplates shall be provided for all circuits in the distribution switchboards, and selector switches. Inscriptions on equipment shall be identical to those indicated in panels and/or motor control centers and other similar devices. Each nameplate shall be provided with drillings and suitable mounting screws corresponding to finish of the nameplate. The inscriptions in each nameplate shall be as indicated on the Drawings.

1.6 MAINTENANCE, SERVICING, INSTRUCTION MANUALS AND WIRING DIAGRAMS
 A. Prior to final acceptance of the job, the Electrical Contractor shall furnish to the Owner at least four (4) copies of operating and maintenance and servicing instructions, as well as four (4) complete wiring diagrams for the following item(s) or equipment:

- Circuit breakers.
 - Receptacles
- B. All wiring diagrams shall specifically cover the system supplied. Typical drawings will not be accepted. Two (2) copies shall be presented to the Electrical Engineer and four (4) copies to the Owner.

1.7 ELECTRICAL CONTRACTOR'S RESPONSIBILITY
 A. It shall be the Electrical Contractor's responsibility to obtain a complete set of Drawings and Specifications. He shall check the Drawings of the other trades and shall carefully read the entire Specifications and determine his responsibilities.
 B. The contractor shall be responsible for reviewing the plans and specifications to ensure each room, where electrical line or low voltage equipment is to be installed, has sufficient space to accommodate the system cabinets, equipment and terminations while maintaining code mandated clearances about said equipment. The contractor shall identify problem areas prior to bid, include all costs required for corrective measures in his bid and submit alternate equipment and materials suitable for the installation to the Architect/Engineer for acceptance as part of the product submittal process.

1.8 FINAL INSPECTION AND ACCEPTANCE
 A. After all requirements of the Specifications and/or the Drawings have been fully completed, representatives of the Owner will inspect the work. Contractor shall provide competent personnel to demonstrate the operation of any item or system to the full satisfaction of each representative.
 B. Final acceptance of the work will be made by the Owner after receipt of approval and recommendation of acceptance from each representative.

1.9 RECORD DRAWINGS
 A. Contractor shall furnish one set of reproducible record drawings before final payment of retention.

1.10 SUBSTITUTIONS
 A. Substitution to specified equipment shall be submitted and received by the Engineer fifteen (15) days after the bid date for review and approval.
 B. To receive consideration, requests for substitutions must be accompanied by documentary proof of its equality with the specified material. Documentary proof shall be in letter form and identify the specified values/materials alongside proposed equal values/materials. In addition, catalog brochures and samples must be included in the submittal.
 C. In the event that authorization is given for a substitute equal to bid, after award of contract the Contractor shall submit to the Engineer certified quotations from suppliers of both the specified and proposed equal material for price comparison and delivery dates.
 D. In the event of cost reduction, the Owner will be credited with 100 percent of the reduction, arranged by Change Order.
 E. The Contractor warrants that substitutions proposed for specified items will fully perform the functions required.
 F. Substitutions or requests for substitution shall not be accepted and rejected for failure to comply with items A-E above.

PART 2 - PRODUCTS
 2.1 MATERIALS
 A. Materials and Equipment: All electrical materials and equipment shall be new and shall be listed by Underwriter's Laboratories and bear their label, or listed and certified by a nationally recognized testing authority where UL does not have an approval. Custom made equipment must have complete test data submitted by the manufacturer attesting to its safety. In addition, the materials and equipment shall comply with the requirements of the following:

- American Society of Testing Materials (ASTM).
- Insulated Cable Engineers Association (ICEA).
- National Electrical Manufacturer's Association (NEMA).
- American Fire Protection Association (NFPA).
- American National Standard Institute (ANSI).

B. Panelboards - Breaker Circuit
 1. Branch circuit panelboards shall be of the dead front safety type equipped with thermal magnetic bolt-on type 40 deg C circuit breakers. Panels shall be suitable for the disaggregation of loads with provisions for the installation of future current transformer (CT's). Enclosure shall be minimum 20" wide (Eaton split-bus type panel) or 30" wide (not split-bus) and 5-3/4" deep unless otherwise noted on plan. Refer to panel schedule for ratings and quantity of circuits to be provided. Panels shall be provided with copper buses. Branch circuit panelboards shall be Eaton or approved equal Siemens, Square D or General Electric to match the main switchboard manufacturer. Equipment manufactured by third party OEM is not acceptable.
 2. Circuit breakers shall be fully rated to provide the symmetrical interrupting capacity indicated on the single line diagram. Circuit breakers shall be the number of poles and current capacity as indicated on the panel schedule with terminals/lugs UL listed for 75°C. Circuit breakers shall be fully coordinated to ensure a local fault does not trip any upstream circuit breaker.
 3. Trims shall have doors equipped with flush type combination lock and catch, two milled type keys supplied with each panel. All locks shall be keyed alike and each door shall have a plastic covered directory frame with a typed identification card of all circuit and panel numbers for branch circuit panelboards and engraved lamacoid nameplates for power distribution panelboards.
 4. Provide nameplate for all panelboards, 1/8" thick, Micarta or Lamacoid plate of approved size, with bevelled edges and engraved white letters on black background. Install nameplates on exterior trim of panel, above the panel door. Provide Arc-Fault warning labels on panel fronts.
 5. All wiring shall be neatly arranged and laced together.
 6. All circuit breakers shall be provided with a device for locking circuit breaker in "OFF" position.
 7. Refer to Painting Section of these Specifications for all panel finish. Panel shall be primed for painting.
 8. Neutral and Ground bus bars shall be full size, rectangular in cross section constructed of copper and interconnections.
 9. Where indicated on plan, panels housing time clocks and contactors for control of lighting shall be provided with an auxiliary section. Panel shall consist of a section panelboard with two boxes and one trim/cover, each with their own door/lock.
 10. Refer to Section 26 05 73 for additional requirements. Panelboards and the overcurrent protective device coordination study must be submitted concurrently. A Panelboard submittal that does not include the overcurrent protective device coordination study will be considered incomplete and returned as "rejected".

C. Conduit:
 1. Rigid conduit shall be full weight threaded type aluminum or steel, except where specifically required to be steel. Steel conduit shall be protected by overall zinc coating to inside and outside surfaces, applied by the hot dip, metallizing or sherardizing process.
 2. Galvanized Rigid Conduit (GRC), shall be full weight threaded type aluminum or steel, except where specifically required to be steel. Steel conduit shall be protected by overall zinc coating to inside and outside surfaces, applied by the hot dip, metallizing, or sherardizing process.
 3. Intermediate Metal Conduit (IMC) shall be hot-dipped galvanized in accordance with UL 1242 and meeting Federal Specification WWC-581 (latest revision).
 4. Electrical Metallic Tubing (EMT), shall be zinc-coated steel with baked enamel or plastic finish on inside surfaces.
 5. Flexible metal conduit shall be constructed of aluminum or hot-dipped galvanized steel strips wound spirally with interlocking edges to provide greatest flexibility with maximum strength. Interior surfaces shall be smooth and offer minimum drag to pulling in conductors. Used only as directed by the Engineer.
 6. Liquid-tight conduit (Seal-Tite) shall be galvanized steel flexible conduit as above except with moisture and oil-proof jacket, pre-cut lengths and factory installed fittings. For outdoor installations and motorconnection.
 7. Non-Metallic Conduit:
 a. Polyvinyl chloride (PVC) rigid conduit, Schedule 40, Type II for underground installation only.
 b. Conduit and fitting shall be produced by the same manufacturer.

- D. Fittings:
 1. Conduit type fittings shall be smooth inside and out, taper threaded with integral insulating bushing and of the shapes, sizes and types required to facilitate installation or removal of wires and cables from the conduit and tubing system. These fitting shall be of metal, smooth inside and out, thoroughly galvanized, and sherardized cadmium plated.
 2. Metallic conduit covers shall have the same finish as the fitting and shall be provided for the opening of each fitting where conductor do not pass through the cover.
 3. Connector, coupling, locknut, bushings and caps used with rigid conduit shall be steel, threaded and thoroughly galvanized. Bushings shall be insulated.
 4. EMT fittings, connectors and couplings, shall be steel, zinc or cadmium plated, rainight, threadless, compression or tap - on multiple point, steel locking ring type with insulated throat.
 5. Flexible steel conduit connectors shall be or malleable iron clamp or squeeze type or steel twist-in type with insulated throat. The finish shall be zinc or cadmium plating.
 6. Die cast, set screw or indenter type fittings are not acceptable.
 7. Conduit unions shall be "Erickson" couplings, or approved equal. The use of running threads will not be permitted.

E. 600 Volt Conductors - Wire and Cable:
 1. All conductors shall be copper. SimPull type or equal
 2. Type THHN/THWN thermoplastic, 600 volt, UL approved, dry and wet locations, for conductor sizes up to and including #4 AWG.
 3. Type XHHW cross-linked synthetic polymer, 600 volt, UL approved, for dry and wet locations, for conductor sizes #2 AWG, and above.
 4. Cross-linked synthetic polymer, XHHW, 600 volts, UL approved, for installation underground, in concrete or masonry.
 5. Wire and cable shall be new, manufactured not more than six (6) months prior to installation, shall have size, type of insulation, voltage rating and manufacturer's name permanently marked on outer covering at regular intervals.
 6. Wire and cable shall be factory color coded by integral pigmentation with a separate color for each phase and neutral. Each system shall be color coded and it shall be maintained throughout.
 7. Systems Conductor Color Coding:
 a. Power 208/120V, 3PH, 4W:
 (1) Phase A = Black
 (2) Phase B = Red
 (3) Phase C = Blue
 (4) Neutral = White
 b. Ground Conductors:
 (1) Green

- All color coding for #8 conductor and above shall be as identified above, utilizing phase tape at each termination.
- No conductors carrying 120 volt or more shall be smaller than #12 AWG.

F. Junction and Pullboxes:
 1. For interior dry locations, boxes shall be galvanized one-piece drawn steel, knockout type, with removable, machine screw secured covers.
 2. For outside, damp or interior/exterior surface mounted locations, boxes shall be heavy cast aluminum or cast iron with removable, gasketed, non-ferrous machine screw secured covers.
 3. All boxes shall be sized for the number and sizes of conductors and conduits entering the box and equipped with plaster rings where required. Each conductor shall be terminated at an insulated, barriered terminal connector and completely identified with an engraved fiber identification marker, Electrovert or Underwriter's Safety Device Company.
 G. Outlet Boxes:
 1. For surface mounting or exposure to wet or damp locations, outlet boxes shall be heavy cast aluminum or cast iron with threaded hubs; covers shall be watertight with gaskets and no
 H. Receptacles:
 1. Weatherproof receptacle shall be industrial heavy duty type, ground fault interrupter, 20 ampere, three wire grounding type, 120 volt, Hubbell Bryant # GF-5362-I, with steel lockable fit cover U.L. listed for "wet" locations when in operation.

- J. Painting:
 1. Terminal cabinets, panels, junction boxes, pull boxes, etc., and conduit installed outdoors and in public view shall be painted with colors selected by the Architect to match the subject exterior surface. Refer to painting section of the specifications for additional requirements.
 K. Seismic Design and Anchoring of Electrical Equipment:
 1. Seismic anchorage of electrical equipment shall conform to C.C.R. Title 24, 2019 CBC with California Amendments. Anchorage details for roof/floor mounted equipment shall be as shown on plans

PART 3 - EXECUTION
 3.1 PREPARATION AND INSTALLATION
 A. Installation of Conduit and Outlet Boxes:
 1. All conduit exposed or installed in concrete and masonry, shall be galvanized rigid steel conduit (GRC), or intermediate metal conduit (IMC).
 2. Rigid conduit may be installed under floor slabs, under concrete sidewalls and as noted on the Drawings. Rigid conduit installed under slabs shall be 1" trade size minimum and shall be wrapped with 20 mil. polyvinyl chloride plastic tape.
 3. All conduit except as hereinafter specified, installed in concrete or masonry walls, or damp or hazardous location, or subjected to mechanical injury shall be heavy wall, threaded, galvanized rigid steel conduit (GRC), or intermediate metal conduit (IMC).
 4. Intermediate metal conduit (IMC), is approved for use in all locations as approved for GRC or EMT and in accordance with Article 345 of CEC and UL Information card #DYBY.
 5. MC cable is not allowed.
 6. Conduit shall be run so as not to interfere with other piping fixtures or equipment.
 7. The ends of all conduit shall be cut square, carefully reamed out to full size and shall be shouldered in fitting.
 8. No running threads will be permitted in locations exposed to the weather, in concrete or underground. Special union fittings shall be used in these locations.
 9. Underground conduit shall be, unless otherwise indicated, Schedule 40 PVC (polyvinyl chloride) installed at depth of not less than 24" below grade, concrete encased with a minimum of 3" concrete envelope and 2" minimum between conduits. Conduit separation shall be maintained using plastic spacers located at 10'-0" intervals. Where power and communication/signal conduits are run in a common trench a (12") inch minimum separation shall be maintained between power and communication/signal conduits. The grounding wire in plastic conduit shall be rated in accordance with Article 250 of 2016 CEC. Conduit encasement will not be required for conduits installed under the building slab (building footprint).
 12. All underground or imbedded conduit shall be 1" minimum trade size for steel and for PVC.
 13. Where underground power feeder conduit runs stub - up, conduit shall transition to GRC underground. The contractor shall use GRC elbows and GRC risers wrapped in 20 mil. PVC tape for stub - ups. Conduit stub - ups for branch circuits and low voltage systems shall be PVC.
 10. PVC conduit shall not be run above ground.
 11. Where underground conduit runs penetrate floor slab, conduit shall terminate 6" above finished floor with a grounding bushing.
 12. Where conductors enter a raceway in a cabinet, pull box, junction box, or auxiliary gutter, the conductors shall be protected by a plastic bushing type fitting providing a smoothly rounded insulating surface.
 15. All conduit underground, in masonry and concrete walls, and where concealed under floor slabs shall have joints painted with thread compound prior to makeup. No conduit shall be installed horizontally in concrete walls or floors.
 16. All conduit shall be supported at intervals not less than 6'-0" and within 12" from any outlet and at each side of bends and elbows. Conduit supports shall be galvanized, heavy stamped, one hole conduit clamp properly secured.
 17. Seismic Conduit Support:
 a. All conduit shall be supported in such a manner that it is securely attached to the structure of the building. Attachment is to be capable of supporting the tributary weight of conduit and contents in any direction. Maximum spacing of support and braces are to be as follows:
 CONDUIT TYPE MAXIMUM SPACING
 EMT, IMC 10'-0"
 GRC (3/4" thru 1 1/2") 10'-0"
 GRC (2" thru 2 1/2") 16'-0"
 GRC (3" and larger) 20'-0"
 18. All conduit runs shall be installed parallel or perpendicular to walls, structural members, or intersection of vertical planes and ceilings. Field made bends and offset shall be avoided where possible. Crushed or deformed raceway shall not be installed.
 19. Open knockouts in outlet boxes only where required for inserting conduit.

END OF SECTION

- All boxes installed outdoors shall be suitable for outdoor installations, gasketed, screw cover and painted as directed by the Architect with weatherproof paint to match building.
- All conduit entries to outdoor mounted panels, cabinets, boxes, etc., shall be made using Myers "SCRUTITE" hubs Series ST.
- All conduit shall have a 200 lb test poly - propylene pull line left in place for future use in all runs tagged with a plastic tag at terminating end indicating the location of the opposite end of the conduit.

B. Installation of 600 Volt Conductors:
 1. All line and low voltage wire shall be installed in conduit.
 2. All line voltage circuits and feeder wires shall be continuous from the service point to terminal or farthest outlet. No joints shall be made except in pull, junction or outlet boxes, or in panel or switchboard gutters.
 3. Thoroughly clean all conduit and wire - ways and see that all parts are perfectly dry before pulling any wires. No joint shall be made except in pull, junction or outlet boxes, or in panel or switchboard gutters.

C. Joints in 600 Volt Conductors:
 1. Joints in 600 volt conductors smaller than No. 4 AWG shall be made with Scotchlok spring type connectors. Wires No 4 AWG and larger shall be joined together with approved type of pressure connector and taped with #33 3M tape, three (3) layers minimum to provide insulation not less than that of conductor. Connections to switch or busbar shall be made with one-piece copper lugs. Splicing of all 600 volt or less in-line connections #2 AWG through 350 MCM shall be made with 3M brand PST connector.
 2. Joints/splices shall be done in junction or pull boxes.

D. Grounding:
 1. Provide grounding for entire electric installation as shown on plans and as required by applicable codes. Included as requiring grounding are:
 a. Conduit.
 b. Neutral or identified conductors of interior wiring system.
 c. Non-current carrying metal parts of fixed equipment.
 2. Grounding and bonding conductors shall be sized per the latest edition of the California Code of Regulations, Title 24, State of California and CEC.
 3. Provide and install an equipment grounding conductor in all feeder and branch circuit conduits.
 4. Building grounding system resistance to ground shall not exceed 25 ohm

E. Prefabricated Equipment: Installation of all prefabricated items and equipment shall conform to the requirements of the manufacturer's specifications and installation instruction pamphlets. Where code requirements affect installation of materials and equipment, the more stringent requirements, code or manufacturer's instructions and/or specifications, shall govern the work.

REVISIONS	BY

ENGINEER

ARCHITECT

PROJECT: NEW SHADE STRUCTURE AND RELATED SITE WORK AT QUARTZ HILL HIGH SCHOOL
 6040 W AVE L, LANCASTER, CA 93536
 SHEET NAME: ELECTRICAL SPECIFICATIONS SECTION 26 00 00 GENERAL ELECTRICAL REQUIREMENTS
 DATE: ---
 DRAWN: DA
 JOB: ANT21-01g
 SHEET: E2.1
 BID SET

QUARTZ HILL HIGH SCHOOL