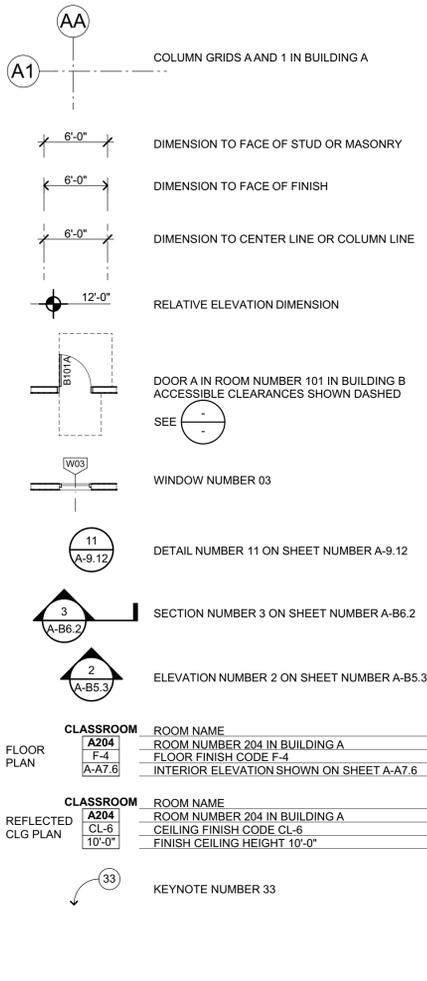


ABBREVIATIONS

& L	AND	F	FACE	PC	PORTLAND CEMENT
@	ANGLE	FA	FIRE ALARM	PF	POUNDS PER CUBIC FOOT
∅	AT	FCO	FLOOR CLEAN OUT	PDA	POWER DRIVEN ANCHOR
∩	CENTERLINE	FD	FLOOR DRAIN	PERF	PERFORATED
'	FEET	FDN	FOUNDATION	PLATE	PLATE HEIGHT
"	INCHES	FE	FIRE EXTINGUISHER	PL	PLATE
d	PENNY	FEK	FIRE EXTINGUISHER CABINET	PL	PROPERTY LINE
#	POUND/ NUMBER	FF	FINISH FLOOR	PLM	PLASTIC LAMINATE
		FG	FINISH GRADE	PLS	PLASTER/ PLASTIC
AB	ANCHOR BOLT	FGL	FIBERGLASS	PLF	POUNDS PER LINEAL FOOT
ABBREV	ABBREVIATION	FH	FIRE HYDRANT	PLYWD	PLYWOOD
AC	ASPHALT CONCRETE	FHMS	FLAT HEAD MACHINE SCREW	P.O.C.	POINT OF CONTACT
A/C	AIR CONDITIONING	FHS	FIRE HOSE STATION	PR	PAIR
ACC	ACCESSIBLE	FHWS	FLAT HEAD WOOD SCREW	PROP	PROPERTY
ACOUS	ACOUSTICAL	FIN	FINISH	PSF	POUNDS PER SQUARE FOOT
AC T	ACOUSTICAL TILE	FIXT	FIXTURE	PSI	POUNDS PER SQUARE INCH
AD	AREA DRAIN	FL	FLOOR LINE	PT	PURGE
ADJ	ADJUSTABLE	FLASH	FLASHING	PTDF	PRESSURE TREATED
A.F.F.	ABOVE FINISH FLOOR	FLUOR	FLUORESCENT	FLOOR	DOUGLAS FIR
AGG	AGGREGATE	FLR	FLOOR	PTN	PARTITION
ALUM	ALUMINUM	FM / FOM	FACE OF MASONRY	PTR	PAPER TOWEL RECEPTACLE
ANOD	ANODIZED	FN	FACE NAIL	PVC	POLYVINYL CHLORIDE
APPROX	APPROXIMATE	FOC	FACE OF CONCRETE	PVMT	PAVEMENT
ARCH	ARCHITECTURAL	FOF	FACE OF FINISH	R	RISER
ASPH	ASPHALT	FOS	FACE OF STUD	R / RAD	RADIUS
		FRMG	FRAMING	RD	ROOF DRAIN
BD	BOARD	FR	FIRE-RESISTANT	REF	REFERENCE
BITUM	BITUMINOUS	FRP	FIBERGLASS REINFORCED	REFR	REFRIGERATOR
BLDG	BUILDING	FRS	FIBERGLASS REINFORCED	REG	REGULAR
BLK	BLOCK	FT	FEET	REQD	REQUIRED
BLKG	BLOCKING	FTG	FOOTING	REINF	REINFORCED
BM	BEAM	FURR	FURRING	RH	ROUGH OPENING
BOT	BOTTOM			RHMS	ROUND HEAD MACHINE SCREW
BO	BY OWNER	GA	GAUGE	RHS	ROUND HEAD WOOD SCREW
BRK	BREAK	GB	GALVANIZED	RM	ROOM
BRG	BEARING	GC	GENERAL CONTRACTOR	RWD	REDWOOD
BTWN	BETWEEN	GI	GALVANIZED IRON		
BU	BUILT-UP	GL	GLASS/ GLAZING		
BUR	BUILT-UP ROOFING	GLB	GLUE LAMINATED BEAM		
		GND	GROUND		
CAB	CABINET	GR	GRADE		
CB	CATCH BASIN	GR BD	GYPSPUM BOARD		
CBC	CALIFORNIA BUILDING CODE	GP	GYP BOARD		
CEM	CEMENT	H	HOSE BIBB		
CER	CERAMIC	HC	HOLLOW CORE		
CI	CAST IRON	HDR	HEADER		
CIR	CIRCLE	HDWD	HARDWOOD		
CJ	CONTROL JOINT	HDWR	HARDWARE		
CORR	CORRIDOR	HM	HOLLOW METAL		
CL	CLOSE/ CENTER LINE	HOR	HORIZONTAL		
CLG	CEILING	HP	HIGH POINT		
CLR	CLEAR	HR	HOUR		
CLS	CLOSURE	HSS	HOLLOW STEEL SECTION		
CMU	CONCRETE MASONRY UNIT	HT	HEIGHT		
COL	COLUMN	HTG	HEATING		
COMB	COMBINATION	HVAC	HEATING, VENTILATING, AIR-CONDITIONING		
COMP	COMPOSITION				
CONC	CONCRETE	ID	INSIDE DIAMETER		
CONN	CONNECTION	INSUL	INSULATION		
CONST	CONSTRUCTION	INT	INTERIOR		
CONT	CONTINUOUS	INTEG	INTEGRAL		
CONTR	CONTRACTOR	INTERM	INTERMEDIATE		
CT	CERAMIC TILE	INT	INVERT		
CTR	CENTER	JH	JOIST HANGER		
CTS	COUNTERSINK	JST	JOIST		
CUST	CUSTODIAN	JT	JOINT		
CW	COLD WATER				
		KIT	KITCHEN		
DBL	DOUBLE	KP	KICK PLATE		
DEPT	DEPARTMENT				
DET	DETAIL	LAB	LABORATORY		
DF	DRINKING FOUNTAIN	LAM	LAMINATE		
DG	DECOMPOSED	LAV	LAVATORY		
		LL	LIVE LOAD		
DI	DRAIN INLET	LP	LOW POINT		
DIA	DIAMETER	LT	LIGHT		
DIAG	DIAGONAL				
DIM	DIMENSION				
DISP	DISPOSAL	MAT	MATERIAL		
DIV	DIVISION	MAX	MAXIMUM		
DN	DOWN	MB	MACHINE BOLT		
DN	DOWN	MC	MEDICINE CABINET		
DIR	DIRECTLY	MECH	MECHANICAL		
DR	DOOR	MED	MEDIUM		
DS	DOWN SPOUT	MEMB	MEMBRANE		
DSA	DIVISION OF STATE ARCHITECT	MFR	MANUFACTURER		
DSP	DRY STAND PIPE	MH	MANHOLE		
DT	DRAIN TILE	MIN	MINIMUM		
DW	DISHWASHER	MIR	MIRROR		
DWG	DRAWING	MISC	MISCELLANEOUS		
DWR	DRAWER	MO	MASONRY OPENING		
		MOD	MODULAR		
E	EAST	MR	MOISTURE RESISTANT		
(E)	EXISTING	MTD	MOUNTED		
EA	EACH	MTL	METAL		
EB	EXPANSION BOLT	MUL	MULLION		
EE	EACH END				
EF	EXHAUST FAN	N	NORTH		
EJ	EXPANSION JOINT	(N)	NEW		
EL	ELEVATION GRADE	NAT	NATURAL		
ELEC	ELECTRICAL	N.I.C.	NOT IN CONTRACT		
ELEV	ELEVATION	NO	NUMBER		
EMER	EMERGENCY	NOM	NOMINAL		
EMT	ELECTRIC METALLIC TUBING	N.T.S.	NOT TO SCALE		
ENCL	ENCLOSURE				
EP	ELECTRIC PANEL	O	OVER		
EQ	EQUAL	OA	OVERALL		
EQUIP	EQUIPMENT	OBS	OBSCURE		
EQUIV	EQUIVALENT	OC	ON CENTER		
ES	EACH SIDE	OD	OUTSIDE DIAMETER		
EW	EACH WAY	OF	OVERFLOW		
EXH	EXHAUST	OFCL	OWNER FURNISHED/ CONTRACTOR INSTALLED		
EXIST	EXISTING				
EXP	EXPANSION	O.L.F.	OCCUPANT LOAD FACTOR		
EXT	EXTERIOR	OFF	OFFICE		
		OPNG	OPENING		
		OPP	OPPOSITE		
		OVHD	OVERHEAD		

LEGEND

ALL NOTES AND SYMBOLS ARE INTENDED TO APPLY AT ALL OTHER LOCATIONS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY. NO LIMITATION OF APPLICATION IS INTENDED EXCEPT AS SPECIFICALLY NOTED.



GENERAL NOTES

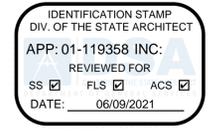
- ALL WORK IS SHOWN, DESCRIBED OR SPECIFIED IN THE DRAWINGS INDEXED ON THIS PAGE OR IN THE SPECIFICATIONS.
- ALL FRAMING DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
- ONLY WORK SO NOTED IS NOT IN CONTRACT (N.I.C.) ALL N.I.C. ITEMS ARE NOT PART OF DSA APPROVAL
- GOVERNING CODES: A COPY OF TITLE 24 PARTS 1-5 SHALL BE KEPT ON THE JOB AT ALL TIMES. CALIFORNIA CODE OF REGULATIONS TITLE 24 BUILDING STANDARDS CODE: PART 1 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR PART 2 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR (2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2016 CALIFORNIA AMENDMENTS) PART 3 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS) PART 4 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 IAPMO UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS) PART 5 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR (2018 IAPMO UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS) PART 6 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR PART 9 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS) PART 10 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2016 CALIFORNIA AMENDMENTS) PART 11 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL-GREEN), PART 11, TITLE 24 CCR PART 12 2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR TITLE 19 CCR, PUBLIC SAFETY CODE, STATE FIRE MARSHAL REGULATIONS 2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN 2016 ASME A17.1-16/CSA B44-16 SAFETY CODE FOR ELEVATORS AND ESCALATORS
- STANDARD AND GUIDES:

NFPA 13	INSTALLATION OF FIRE SPRINKLER SYSTEMS (CA AMENDED)	2016 EDITION
NFPA 14	INSTALLATION OF STANDPIPE AND HOSE SYSTEMS	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17A	WET CHEMICAL FIRE EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES	2016 EDITION
NFPA 25	CALIFORNIA EDITION - TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS	2013 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2016 EDITION
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2018 EDITION
NFPA 110	EMERGENCY AND STANDBY POWER SYSTEMS	2016 EDITION
NFPA 170	STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS	2018 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
- IN ACCORDANCE WITH TITLE 24 PART 1 CHAPTER 4: THE ADMINISTRATIVE REGULATIONS FOR THE DIVISION OF THE STATE ARCHITECT STRUCTURAL SAFETY (DSA/SS)
 - 4-331 DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION.
 - 4-332 WHEN CONSTRUCTION IS SUSPENDED FOR MORE THAN ONE MONTH, THE PROJECT INSPECTOR SHALL INFORM DSA.
 - 4-333(a) OBSERVATION OF THE WORK SHALL BE BY ARCHITECT OR REGISTERED ENGINEER.
 - 4-333(b) THE DISTRICT MUST PROVIDE AND PAY FOR PROJECT INSPECTOR.
 - 4-334 SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH THIS SECTION.
 - 4-335 STRUCTURAL TESTS AND INSPECTION ARE REQUIRED IN ACCORDANCE WITH THIS SECTION. TESTS OF MATERIALS AND TESTING LAB SHALL BE IN ACCORDANCE WITH SECTION 4-335 AND THE DISTRICT SHALL EMPLOY AND PAY THE LAB. COSTS OF RE-TEST MAY BE BACKCHARGED TO THE CONTRACTOR. ALL TESTS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 4-335 AND APPROVED T & I SHEET (DSA-103)
 - 4-336 VERIFIED REPORTS SHALL BE SUBMITTED BY CONTRACTORS (DSA 006-C), INSPECTORS (DSA 006-PI), ARCHITECTS AND ENGINEERS (DSA 006-AE) IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343.
 - 4-337 SEMI-MONTHLY REPORTS SHALL BE SUBMITTED BY INSPECTORS (DSA - 155), IN ACCORDANCE WITH SECTIONS 4-337.
 - 4-338 WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE APPROVED PLANS, ADDENDA AND CONSTRUCTION DOCUMENTS. CHANGES IN THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS STAMPED AND SIGNED BY THE ARCHITECT OR REGISTERED ENGINEER IN CHARGE. ADDENDA AND CHANGE DOCUMENTS SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF WORK.
 - 4-341(a) THE ARCHITECT AND THE REGISTERED ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341.
 - 4-341(b) INSPECTOR SHALL BE APPROVED BY DSA.
 - 4-342 INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333 THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH THIS SECTION.
 - 4-343 THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH THIS SECTION.
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY EXISTING CONDITIONS BE DISCOVERED WHICH ARE NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24 C.C.R. A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK. (TITLE 24 PART 1, SECTION 4-338(c))
- COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION SHALL BE ENFORCED.
- EMERGENCY VEHICLE ACCESS ROADS AND ON-SITE FIRE HYDRANTS SHALL BE IN SERVICE AND OPERABLE PRIOR TO LOADING THE SITE WITH COMBUSTIBLE MATERIALS.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS, AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH APPLICABLE LOCAL ORDINANCES.

SHEET INDEX

23 SHEETS

GENERAL	
G-0.1	COVER SHEET
G-0.2	ABBREVIATIONS AND NOTES
G-0.3	ACCESS AND EGRESS CAMPUS PLAN
CIVIL	
C0	ABBREVIATIONS, LEGEND & NOTES
C1	DEMOLITION PLAN
C2	GRADING PLAN NORTHEAST
C3	GRADING PLAN SOUTHWEST
C4	GRADING PLAN SOUTHWEST
C5	PAVEMENT STRUCTURAL SECTION, LAYOUT & EROSION CONTROL PLAN
C6	DETAIL
SITE PLANS	
A-1.0	DEMOLITION SITE PLAN
A-1.1	CAMPUS SITE PLAN
A-1.2	ENLARGED PLANS
A-1.3	SITE DETAILS
FLOOR PLANS	
A-A2.1	FLOOR PLAN
SCHEDULES	
A-8.1	DOOR AND GATE SCHEDULE
ELECTRICAL	
E-0.1	SYMBOLS LIST, GENERAL NOTES & LIST OF DRAWINGS
E-1.2	SITE PLAN - LIGHTING
FE-0.1	FIRE ALARM EQUIPMENT LIST, NOTES & DIAGRAMS
FE-1.1	SITE PLAN - FIRE ALARM
FE-3.1	FLOOR PLAN - FIRE ALARM
FE-5.1	RISER DIAGRAM - FIRE ALARM
FE-6.1	CALCULATIONS - FIRE ALARM



QUATTROCCHI KWOK ARCHITECTS
 Main: 636 Fifth Street, Santa Rosa, CA 95404
 East Bay: 55 Harrison Street, Suite 525, Oakland, CA 94607 (707) 576-0829



PROJECT DESCRIPTION

NEW SITE SECURITY FENCING, STRIPING AT NORTH PARKING, AND MODERNIZATION OF FIRE ALARM AND DOOR HARDWARE AT EXISTING BUILDINGS.

DEFERRED APPROVALS

NONE

Statement of General Conformance

BY ARCHITECT UTILIZING PLANS (INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS) PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

DSA Application No. **01-119358** File No. **1-1**

These drawings (marked Civil, Structural, Electrical, and Fire Alarm) and/or specifications and/or calculations for the items listed, 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:

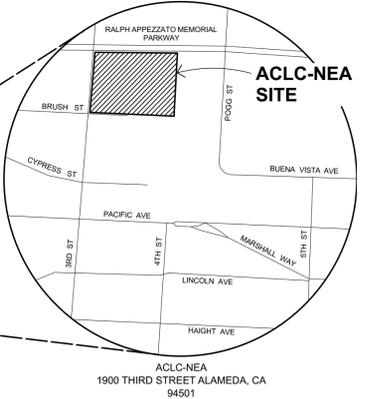
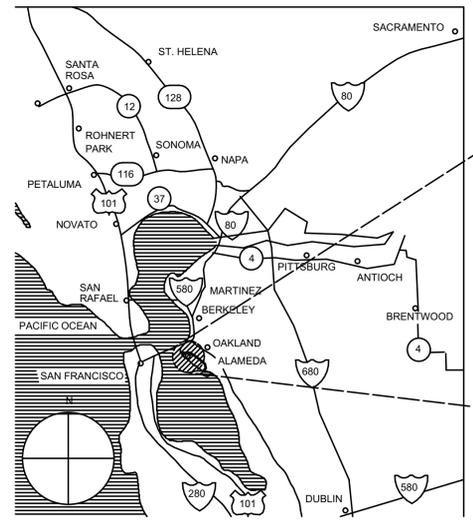
- design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
- coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81136 of the Education Code and Sections 4-336, 4-341, and 4-344 of Title 24, Part 1, Section 4-317 (b))

Signature: *Mark Quattrocchi* Date: 5/27/2021
 Architect or Engineer designated to be in general responsible charge

Mark Quattrocchi C15438 July 31, 2021
 Print Name License Number Expiration Date

VICINITY MAP



BUILDING CODE ANALYSIS

CODE CYCLE	BUILDING	OCCUPANCY	CONSTRUCTION TYPE	BASIC ALLOWABLE AREA (square feet)	ACTUAL AREA (square feet)	MAX STORIES	ACTUAL STORIES
EXISTING BUILDINGS BELOW HAVE NO CHANGE IN USE, BUILDING SQUARE FOOTAGE, OCCUPANCY CLASSIFICATION, TYPE OF CONSTRUCTION, BUILDING AREA OR NUMBER OF STORIES. EXISTING BUILDINGS BELOW MAINTAIN THEIR PREVIOUSLY APPROVED BUILDING CODE ANALYSIS.							
1998 CBC	A	B	V-N	8,000 SF	5,200 SF	ONE	ONE
1998 CBC	B	E-1	V-N	9,100 SF	2,970 SF	ONE	ONE
1998 CBC	C	A-3	V-1	6,000 SF	4,000 SF	ONE	ONE
1998 CBC	D	E-1	V-N	9,100 SF	1,690 SF	ONE	ONE
1998 CBC	E	E-1	V-N	9,100 SF	685 SF	ONE	ONE
1998 CBC	F	E-1	V-N	9,100 SF	4,353 SF	ONE	ONE
1998 CBC	G	E-1	V-N	9,100 SF	4,353 SF	ONE	ONE
1998 CBC	H	E-1	V-N	9,100 SF	4,353 SF	ONE	ONE
1998 CBC	I	E-1	V-N	9,100 SF	6,384 SF	ONE	ONE
2013 CBC	P-1 - P-7	E + B	V-B	9,000 SF	6,240 SF	ONE	ONE
1998 CBC	R-1	E-1	V-N	9,100 SF	1,920 SF	ONE	ONE

DSA APP NO. 01-119358

ARCH PROJECT NO: 1580.03

DRAWN BY: HM

DRAWING SCALE: N.T.S.

PTN: 61119-120 FILE NO: 1-1

CD

MAY 25, 2021

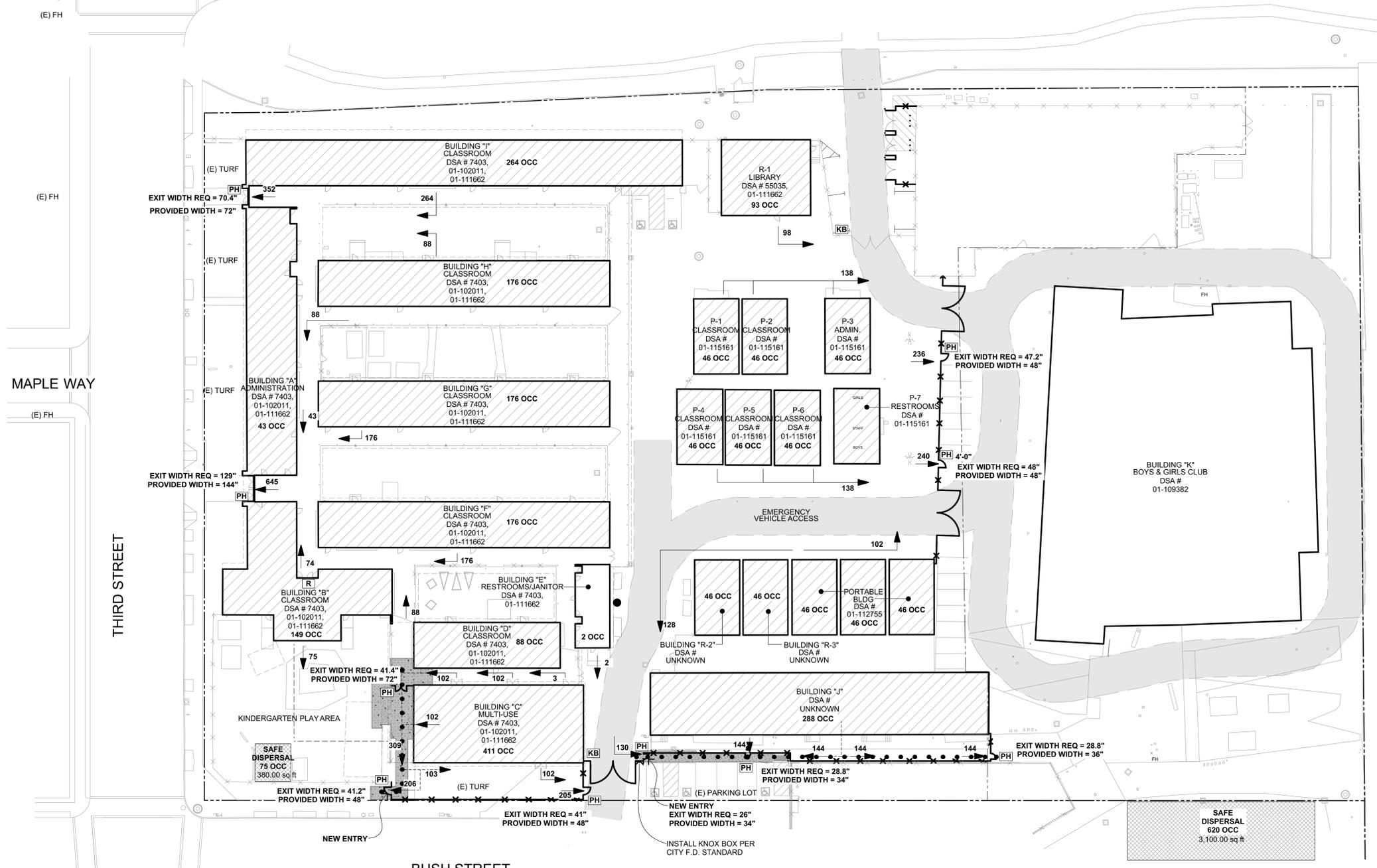
SHEET TITLE

ABBREVIATIONS AND NOTES

SHEET NUMBER

G-0.2

RALPH APPEZZETO MEMORIAL HIGHWAY



EGRESS SITE PLAN NOTES

- CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE OR OTHERWISE INHIBIT THE USE OF REQUIRED EXITS AT ANY TIME. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS AND OTHER ACCESS ROUTES FOR EGRESS, FIRE-FIGHTING EQUIPMENT AND/OR PERSONNEL.

SITE PLAN GENERAL NOTES

- IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED NOT LESS THAN 2% AWAY FROM THE BUILDING. SUCH SURFACES SHALL BE PERMITTED TO SLOPE LESS THAN 2% WHERE THE SURFACE IS A DOOR LANDING OR REQUIRED RAMP.
- REFER TO CIVIL ENGINEERING DWGS FOR SIDEWALK GRADES
- REFER TO CIVIL ENGINEERING DRAWINGS FOR SITE FEATURES NOT OTHERWISE INDICATED.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:

THE P.O.T. 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 P.O.T. WAS EXAMINED AND ANY ELEMENT, COMPONENT OR PORTIONS OF THE P.O.T. 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 ELEMENT, COMPONENT, OR PORTION 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.

DURING CONSTRUCTION IF P.O.T. 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.

..... INDICATES ACCESSIBLE ROUTE
THE ACCESSIBLE ROUTE (PATH OF TRAVEL) INDICATED HAS BEEN PROVIDED IN ACCORDANCE WITH IR 11B-10 AND SHALL COMPLY WITH THE FOLLOWING:

- 1:20 MAXIMUM SLOPE WITHOUT A RAMP HANDRAIL
 - 1:48 MAXIMUM CROSS SLOPE
 - NO ABRUPT VERTICAL CHANGES EXCEEDING 1/4". CHANGES BETWEEN 1/4" TO 1/2" VERTICAL CAN BE AT 1:2 MAX SLOPE. CHANGES LESS THAN 1/4" CAN BE VERTICAL
 - 48" MIN. CLEAR IN WIDTH (60" MIN PASSING SPACE EVERY 200 LINEAL FEET)
 - NON-SLIP SURFACE - HEAVY BROOM FINISH AT EXTERIOR CONCRETE PAVING WHERE SLOPED >6%, MEDIUM BROOM FINISH AT SLOPES <6%
 - MAINTAIN FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN
 - PROTRUDING OBJECTS NOT GREATER THAN 4" SHALL BE MOUNTED BETWEEN 27" AND 80" A.F.F.
 - WHERE A DRAIN INLET IS IN THE PATH OF TRAVEL, THE GRATE SHALL BE ORIENTED SO THAT MAX OPENING IS 1/2" & LONG DIM IS PERPENDICULAR TO THE PREDOMINANT DIRECTION OF PEDESTRIAN TRAVEL
 - CONTRACTOR TO VERIFY THAT NO BELOW-GRADE PULL BOXES OCCUR WITHIN THE AREA OF TRUNCATED DOMES
- PARKING AND PEDESTRIAN SITE SIGNAGE SHALL COMPLY WITH CBC SECTIONS 11B-502.6 11B-502.8 & 11B-703.7.2.1
BUILDING SIGNAGE SHALL COMPLY WITH CBC 11B-703
PEDESTRIAN GATES SHALL COMPLY WITH CBC 1010.2 & 11B-206.5

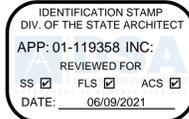
EGRESS SITE PLAN LEGEND

- (E) BUILDING TO BE MODERNIZED
- (E) BUILDING TO REMAIN
- CONCRETE, S.C.D.
- ASPHALT, S.C.D.
- 20'-0" EMERGENCY VEHICLE ACCESS
- (E) BUILDING OVERHANG TO REMAIN
- (E) CHAIN LINK FENCING TO REMAIN
- CHAIN LINK FENCING
- PROPERTY LINE
- ACCESSIBLE PATH OF TRAVEL
- FH FIRE HYDRANT
- PH GATE WITH PANIC HARDWARE
- # # OF OCCUPANTS AND DIRECTION OF EGRESS
- SAFE DISPERSAL AREA WITH # OF OCCUPANTS
- R ACCESSIBLE RESTROOM
- ACCESSIBLE DRINKING FOUNTAIN
- KB KNOX BOX

PARKING ANALYSIS

	TOTAL SPACES PROVIDED	ACC SPACES REQUIRED*	ACC SPACES PROVIDED
NORTH PARKING LOT	5	1 (1 VAN)	2 TOTAL (2 VAN)
SOUTH PARKING LOT	6	1 (1 VAN)	3 TOTAL (1 VAN)

*CBC SECTION 11B-208.2 & TABLE 11B-208.2
1-25 PARKING SPACES; 1 ACCESSIBLE SPACES REQUIRED



QUATTROCCHI KWOK ARCHITECTS
Main: 636 Fifth Street, Santa Rosa, CA 95404
East Bay: 55 Harrison Street, Suite 525, Oakland, CA 94607 (707) 576-0829



SIGNED: MAY 25, 2021

ACL-NEA

PERIMETER FENCING & MODERNIZATION

1900 Third Street
Alameda, CA 94501

ALAMEDA UNIFIED SCHOOL DISTRICT

DSA APP NO. 01-119358

ARCH PROJECT NO. 1580.03

DRAWN BY: HM

DRAWING SCALE: 1" = 30'-0"

PTN: 61119-120 FILE NO: 1-1

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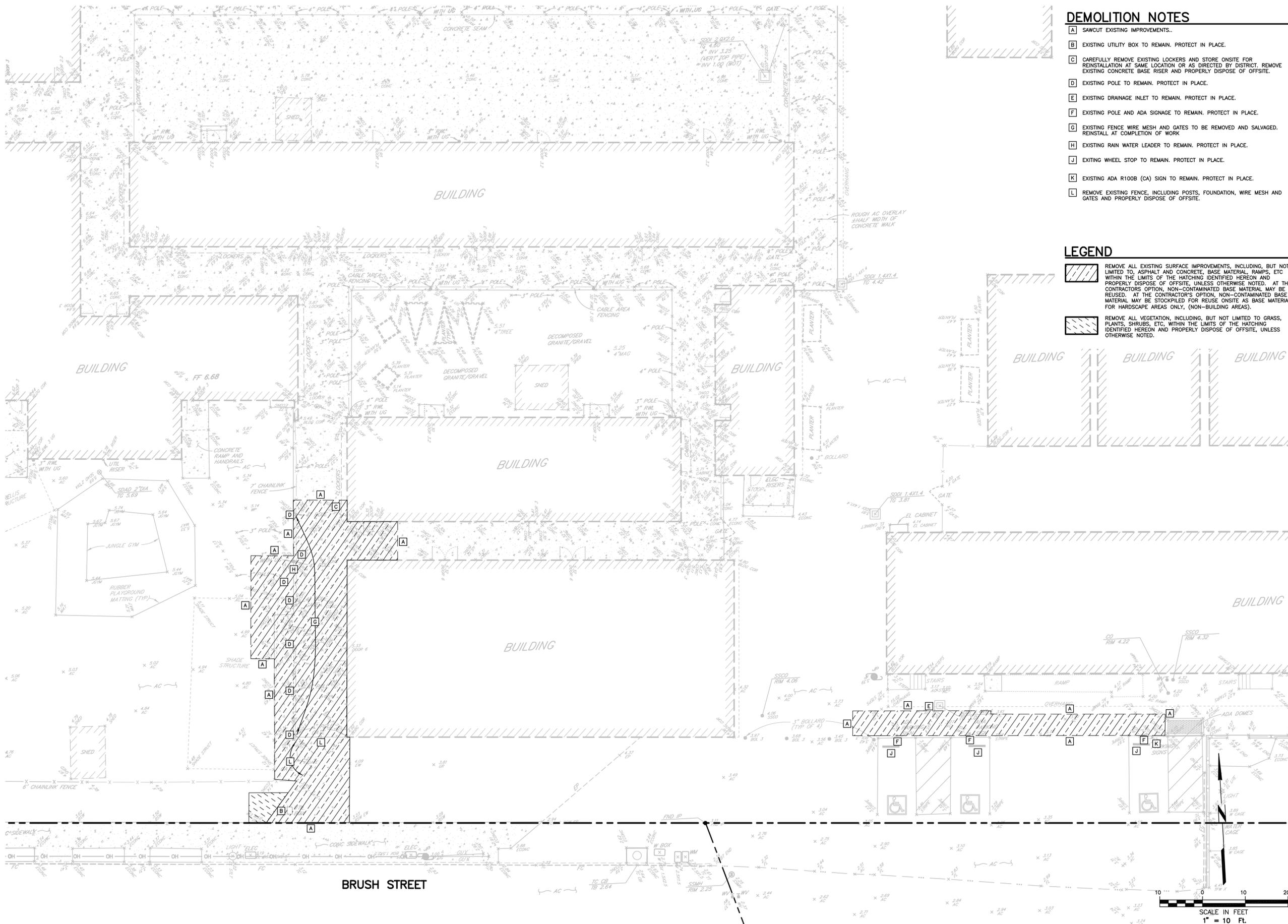
MAY 25, 2021

SHEET TITLE

ACCESS AND EGRESS CAMPUS PLAN

SHEET NUMBER

G-0.3



DEMOLITION NOTES

- A** SAWCUT EXISTING IMPROVEMENTS.
- B** EXISTING UTILITY BOX TO REMAIN. PROTECT IN PLACE.
- C** CAREFULLY REMOVE EXISTING LOCKERS AND STORE ONSITE FOR REINSTALLATION AT SAME LOCATION OR AS DIRECTED BY DISTRICT. REMOVE EXISTING CONCRETE BASE RISER AND PROPERLY DISPOSE OF OFFSITE.
- D** EXISTING POLE TO REMAIN. PROTECT IN PLACE.
- E** EXISTING DRAINAGE INLET TO REMAIN. PROTECT IN PLACE.
- F** EXISTING POLE AND ADA SIGNAGE TO REMAIN. PROTECT IN PLACE.
- G** EXISTING FENCE WIRE MESH AND GATES TO BE REMOVED AND SALVAGED. REINSTALL AT COMPLETION OF WORK
- H** EXISTING RAIN WATER LEADER TO REMAIN. PROTECT IN PLACE.
- J** EXISTING WHEEL STOP TO REMAIN. PROTECT IN PLACE.
- K** EXISTING ADA R100B (CA) SIGN TO REMAIN. PROTECT IN PLACE.
- L** REMOVE EXISTING FENCE, INCLUDING POSTS, FOUNDATION, WIRE MESH AND GATES AND PROPERLY DISPOSE OF OFFSITE.

LEGEND

- REMOVE ALL EXISTING SURFACE IMPROVEMENTS, INCLUDING, BUT NOT LIMITED TO, ASPHALT AND CONCRETE, BASE MATERIAL, RAMPS, ETC WITHIN THE LIMITS OF THE HATCHING IDENTIFIED HEREON AND PROPERLY DISPOSE OF OFFSITE, UNLESS OTHERWISE NOTED. AT THE CONTRACTOR'S OPTION, NON-CONTAMINATED BASE MATERIAL MAY BE REUSED. AT THE CONTRACTOR'S OPTION, NON-CONTAMINATED BASE MATERIAL MAY BE STOCKPILED FOR REUSE ONSITE AS BASE MATERIAL FOR HARDSCAPE AREAS ONLY, (NON-BUILDING AREAS).
- REMOVE ALL VEGETATION, INCLUDING, BUT NOT LIMITED TO GRASS, PLANTS, SHRUBS, ETC, WITHIN THE LIMITS OF THE HATCHING IDENTIFIED HEREON AND PROPERLY DISPOSE OF OFFSITE, UNLESS OTHERWISE NOTED.

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 01-119358 INC:
 REVIEWED FOR
 SS FLS ACS
 DATE: 06/09/2021



QUATTROCCHI KWOK ARCHITECTS
 Main:
 636 Fifth Street, Santa Rosa, CA 95404
 East Bay:
 55 Harrison Street, Suite 525,
 Oakland, CA 94607
 (707) 576-0829

Brelje & Race
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 475 Aviation Boulevard, Suite 120
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ACLC-NEA
PERIMETER FENCING & MODERNIZATION

1900 THIRD STREET
 ALAMEDA, CA 94501

ALAMEDA UNIFIED
 SCHOOL DISTRICT

REVISIONS

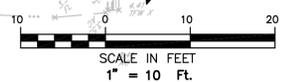
NO.	DESCRIPTION

DSA APP NO. 01-119358
 ARCH PROJECT NO: 1580.03/4141.04
 DRAWN BY: JLP
 DRAWING SCALE: 1" = 10'
 PTN: FILE NO: 1-1
 CD
 MAY 25, 2021
 SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER
C1

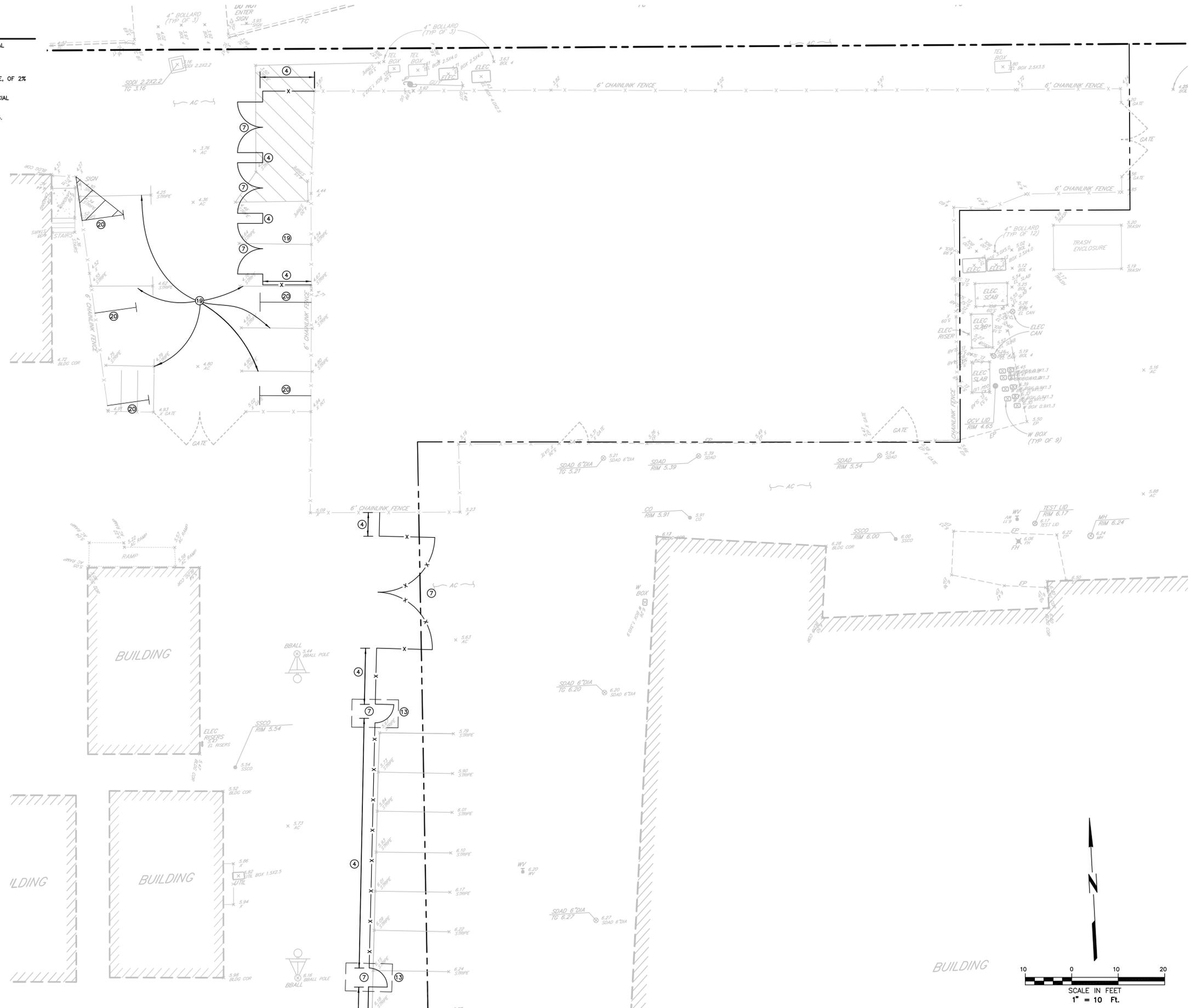
05-25-21 bailey \4141.dwg 4/14/21 04:41:04-PLAN.dwg TAB: C1 DEMO



GRADING NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

- ④ INSTALL CHAIN LINK FENCING AND FOUNDATION. SEE ARCHITECTURAL DRAWINGS FOR DETAIL.
- ⑦ INSTALL SWING GATE. SEE ARCHITECTURAL PLANS FOR DETAILS.
- ⑬ 6' WIDE X 5' DEEP MIN AREA, AT BOTH SIDES CENTERED ON GATE, OF 2% MAXIMUM SLOPE IN ALL DIRECTIONS.
- ⑲ EXISTING PAVEMENT MARKING TO BE PAINTED OVER WITH COMMERCIAL QUALITY BLACK TRAFFIC PAINT.
- ⑳ INSTALL NEW PAVEMENT MARKINGS PER PAVEMENT PLAN SHEET C5.



SEE SHEET C3

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REVISIONS

NO.	DESCRIPTION

DSA APP NO. 01-119358
ARCH PROJECT NO: 1580.03/4141.04
DRAWN BY: JLP
DRAWING SCALE: 1" = 10'
PTN: FILE NO: 1-1

CD
MAY 25, 2021
SHEET TITLE

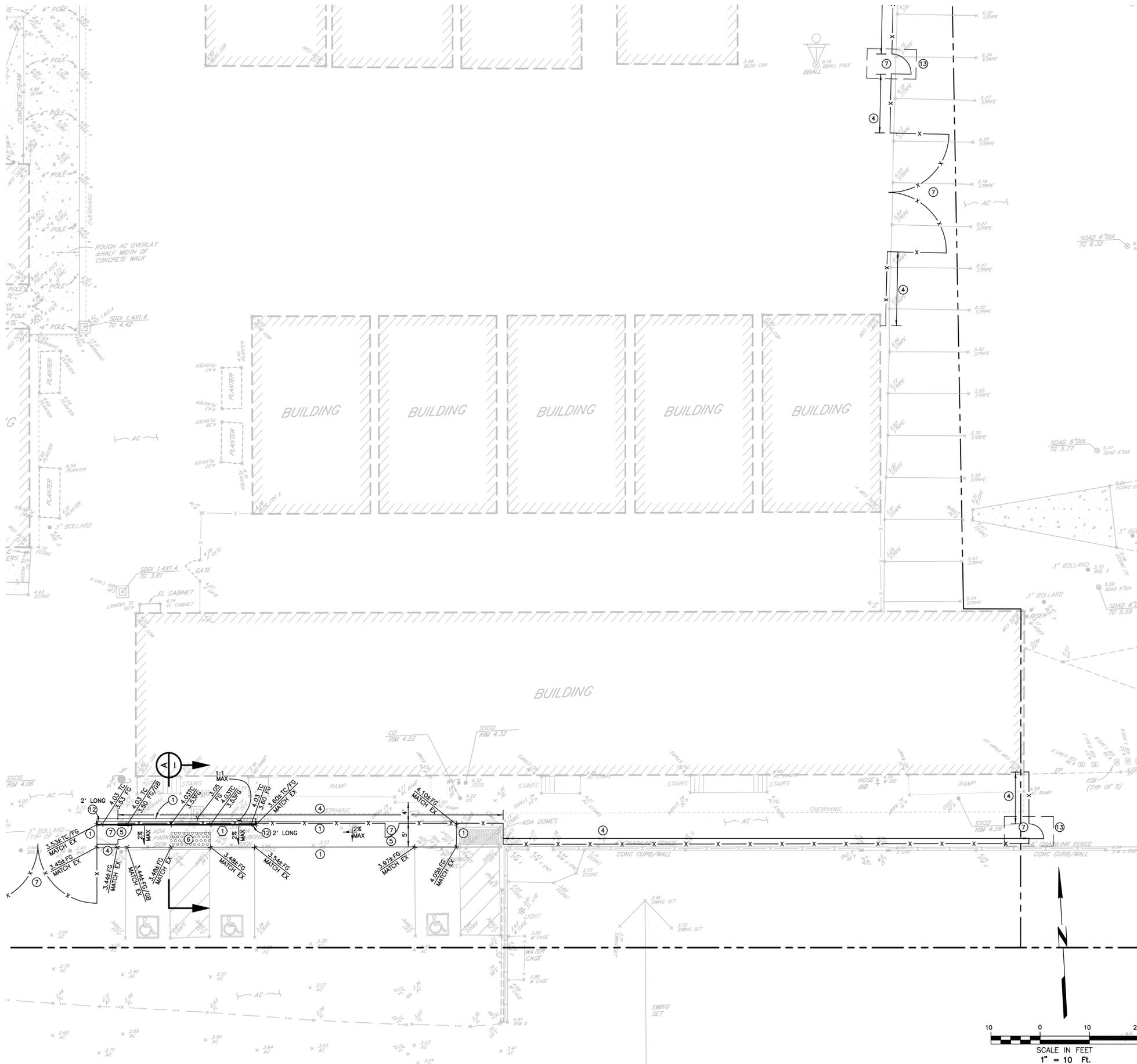
GRADING PLAN NORTHEAST

SHEET NUMBER
C2

TAB: C2 GRADING PLAN NORTHEAST

05-25-21 bailey \4141\dwg\4141_04\4141_04-PLAN.dwg

SEE SHEET C2



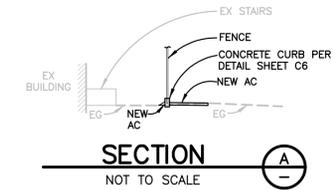
GRADING NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

- ① MATCH EXISTING IMPROVEMENTS.
- ④ INSTALL CHAIN LINK FENCING AND FOUNDATION. SEE ARCHITECTURAL DRAWINGS FOR DETAIL.
- ⑤ 2% MAXIMUM SLOPE IN ALL DIRECTIONS.
- ⑥ INSTALL DETECTABLE WARNING SURFACE PER DETAIL SHEET C6.
- ⑦ INSTALL SWING GATE. SEE ARCHITECTURAL PLANS FOR DETAILS.
- ⑬ 6' WIDE X 5' DEEP MIN AREA, AT BOTH SIDES CENTERED ON GATE, OF 2% MAXIMUM SLOPE IN ALL DIRECTIONS.

LEGEND

- ① CURB TYPE PER DETAIL SHEET C6



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REVISIONS

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DSA APP NO. 01-119358

ARCH PROJECT NO: 1580.03/4141.04

DRAWN BY: JLP

DRAWING SCALE: 1" = 10'

PTN: FILE NO: 1-1

CD

MAY 25, 2021

SHEET TITLE

GRADING PLAN SOUTHEAST

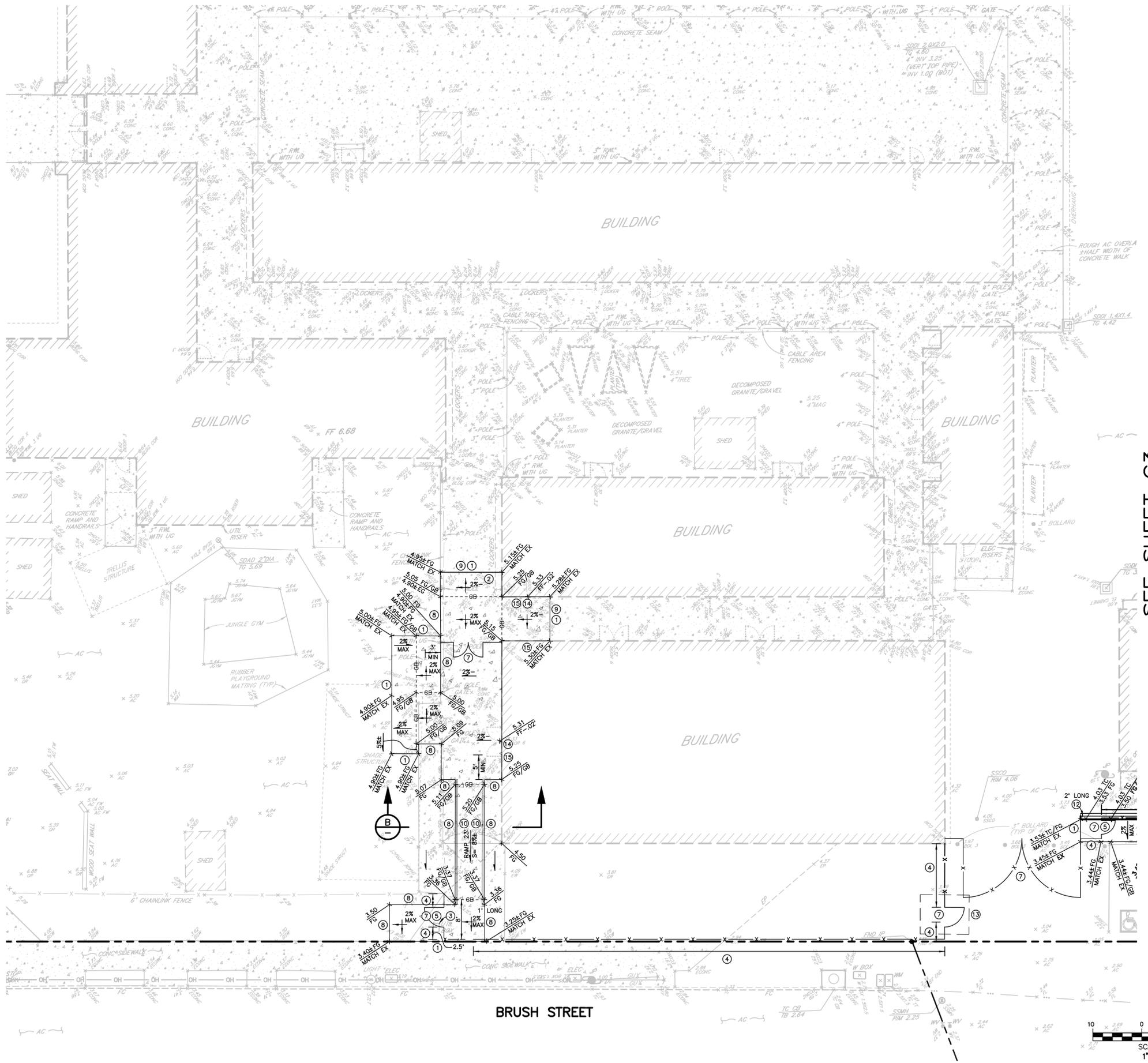
SHEET NUMBER

C3

TAB: C3 GRADING PLAN SOUTHEAST

SEE SHEET C4

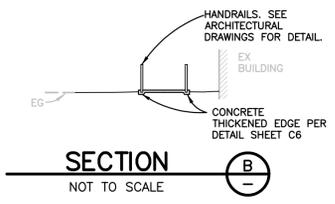
05-25-21 bailey \4141.dwg 4/14/21 04:41:04-PLAN.dwg



GRADING NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

- 1 MATCH EXISTING IMPROVEMENTS.
- 2 RELOCATE EXISTING LOCKERS, PER SCHOOL DISTRICT'S RECOMMENDATIONS.
- 3 RAISE EXISTING UTILITY STRUCTURE TO NEW FINISHED GRADE.
- 4 INSTALL CHAIN LINK FENCING AND FOUNDATION. SEE ARCHITECTURAL DRAWINGS FOR DETAIL.
- 5 2% MAXIMUM SLOPE IN ALL DIRECTIONS.
- 7 INSTALL SWING GATE. SEE ARCHITECTURAL PLANS FOR DETAILS.
- 8 CONCRETE THICKENED EDGE PER DETAIL SHEET C6.
- 9 DOWEL NEW CONCRETE INTO EXISTING CONCRETE PER DETAIL SHEET C6.
- 10 INSTALL HANDRAIL. SEE ARCHITECTURAL DRAWINGS FOR DETAIL.
- 13 6' WIDE X 5' DEEP MIN AREA, AT BOTH SIDES CENTERED ON GATE, OF 2% MAXIMUM SLOPE IN ALL DIRECTIONS.
- 14 DOWEL SIDEWALK TO BUILDING SLAB AT DOORWAY PER DETAIL SHEET C6.
- 15 INSTALL 1/2" WIDE EXPANSION JOINT, WITH PULL ZIP STRIPS AND CAULKING FILLER MATERIAL, WHERE NEW WALKWAY JOINS EXISTING BUILDING.



SEE SHEET C3

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REGISTERED PROFESSIONAL ENGINEER
 ERIC V. BARTROP
 No. 40512
 Exp. 3-31-23
 CIVIL
 STATE OF CALIFORNIA
 05-25-21

ACLC-NEA
PERIMETER FENCING & MODERNIZATION

1900 THIRD STREET
 ALAMEDA, CA 94501

ALAMEDA UNIFIED
 SCHOOL DISTRICT

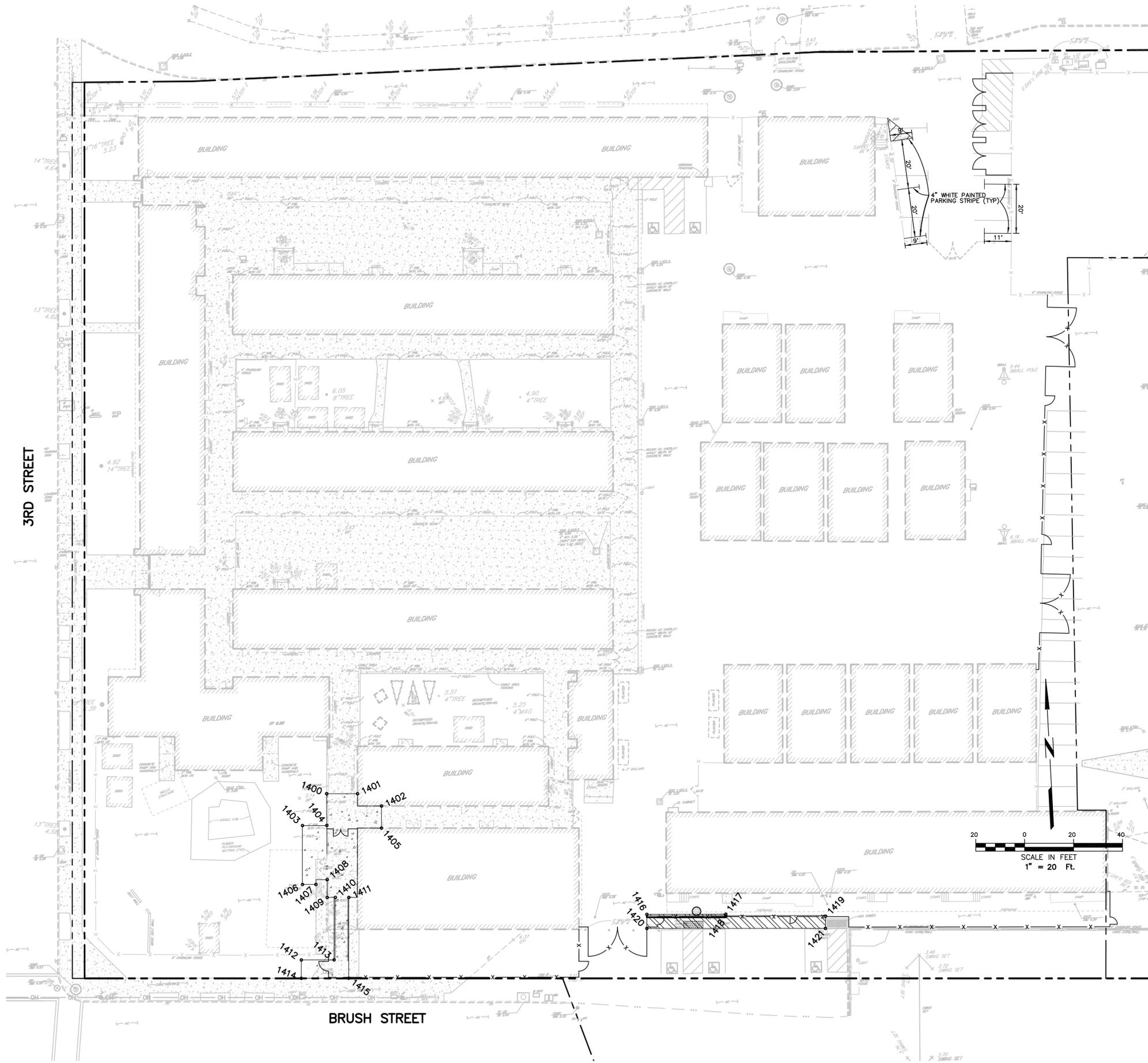
REVISIONS

NO.	DESCRIPTION

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 DRAWN BY: JLP
 DRAWING SCALE: 1"= 10'
 PTN: FILE NO: 1-1
 CD
 MAY 25, 2021
 SHEET TITLE

**GRADING PLAN
 SOUTHWEST**

SHEET NUMBER
C4



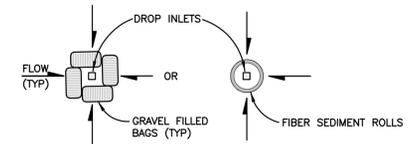
PAVEMENT STRUCTURAL SECTION

LOCATION	AC*	CL2 AB**	PCC***
ASPHALT CONCRETE (AC)	0.25'	0.75'	-
CONCRETE (PEDESTRIAN) PER DETAIL THIS SHEET	-	0.33'	0.33'

* TYPE A 1/2 MAX MEDIUM ASPHALT
 ** COMPACTED TO 95% RELATIVE COMPACTION
 *** 5 SACKS PER CY

LEGEND

○ MINOR INLET PROTECTION,
PER DETAIL THIS SHEET.



MINOR INLET PROTECTION
NOT TO SCALE

LAYOUT COORDINATE TABLE

NO	NORTHING	EASTING	TYPE
1400	470577.606	1483739.317	AP
1401	470576.906	1483751.898	AP
1402	470571.384	1483761.413	AP
1403	470565.189	1483728.713	AP
1404	470564.714	1483738.677	AP
1405	470562.409	1483760.928	AP
1406	470541.225	1483727.395	AP
1407	470540.917	1483732.896	AP
1408	470542.658	1483737.637	AP
1409	470535.437	1483737.236	AP
1410	470535.251	1483740.578	AP
1411	470534.957	1483746.070	AP
1412	470510.576	1483725.274	AP
1413	470509.875	1483738.663	AP
1414	470503.113	1483724.859	AP
1415	470502.083	1483744.258	AP
1416	470521.460	1483867.352	AP
1417	470519.749	1483899.610	AP
1418	470518.970	1483899.568	AP
1419	470516.738	1483940.300	AP
1420	470515.706	1483867.042	AP
1421	470511.794	1483939.969	AP

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REVISIONS

NO.	DATE	DESCRIPTION

DSA APP NO. 01-119358
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 DRAWN BY: JLP
 DRAWING SCALE: 1" = 20'
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CD
 MAY 25, 2021

PAVEMENT STRUCTURAL SECTION, LAYOUT & EROSION CONTROL PLAN

SHEET NUMBER
C5

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REVISIONS

NO.	DESCRIPTION

DSA APP NO. 01-119358

ARCH PROJECT NO: 1580.03/4141.04
 DRAWN BY: JLP
 DRAWING SCALE: AS SHOWN
 PTN: FILE NO: 1-1

CD
 MAY 25, 2021
 SHEET TITLE

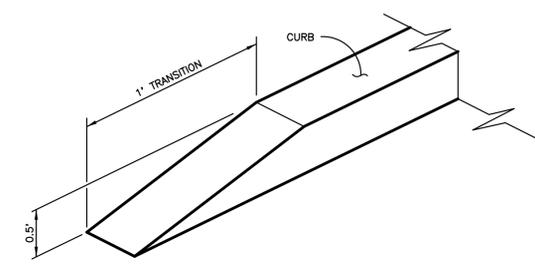
DETAILS

SHEET NUMBER

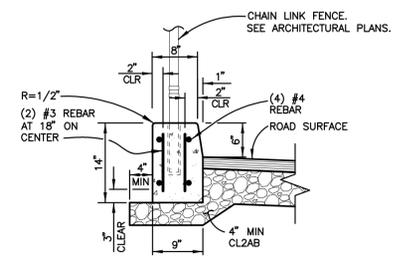
C6

NOTES

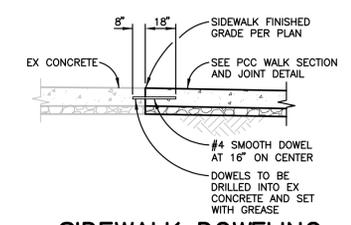
1. CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED FOR SITE FLATWORK AND UNENCLOSED SITE STRUCTURES PER CBC 2019 1705A.3.3.2 AND DSA 103 FORM.
2. EPOXY SHEAR DOWELS IN SITE FLATWORK AND/OR OTHER NON-STRUCTURAL CONCRETE ARE EXEMPT FROM STRUCTURAL TESTING AND SPECIAL INSPECTION PER DSA 103 FORM.



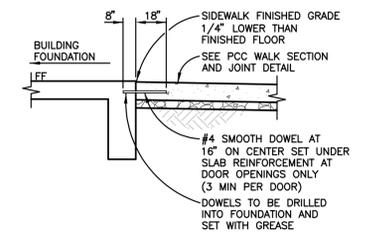
CURB TRANSITION
 NOT TO SCALE



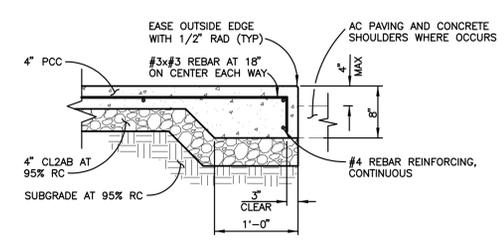
TYPE 1 STANDARD VERTICAL CURB
 NOT TO SCALE



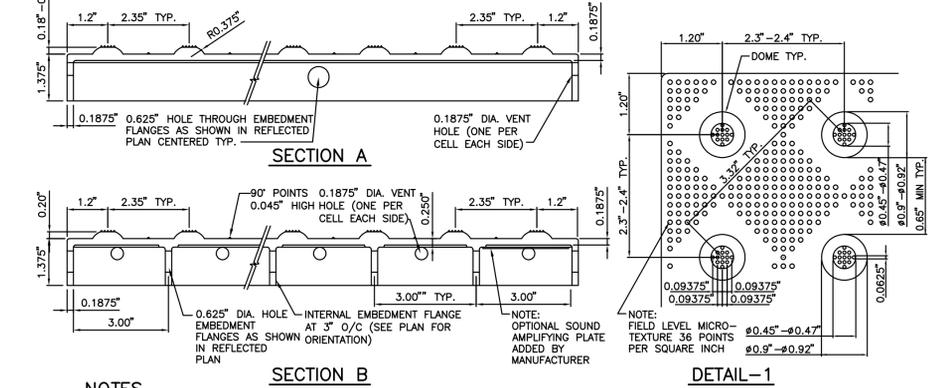
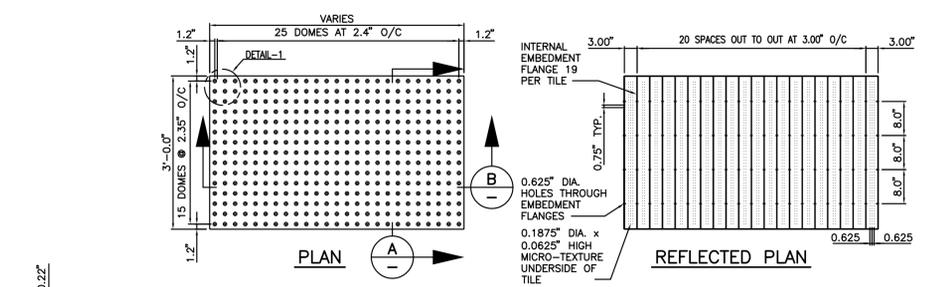
SIDEWALK DOWELING
 NOT TO SCALE



FOUNDATION DOWELING AT DOORWAY
 NOT TO SCALE

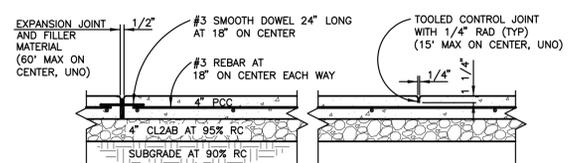


CONCRETE PAVING EDGE
 NOT TO SCALE



- NOTES**
1. DETAIL FOR 36"x60" SHOWN. DETAIL FOR OTHER SIZE TILES SIMILAR.
 2. TILE COLOR TO BE YELLOW.
 3. TILES TO BE PLACED FULL WIDTH OF RAMP, EXCLUDING FLARES, AND A MINIMUM LENGTH OF 3FT IN THE DIRECTION OF TRAVEL.

EMBEDDED DETECTABLE WARNING SURFACE
 NOT TO SCALE

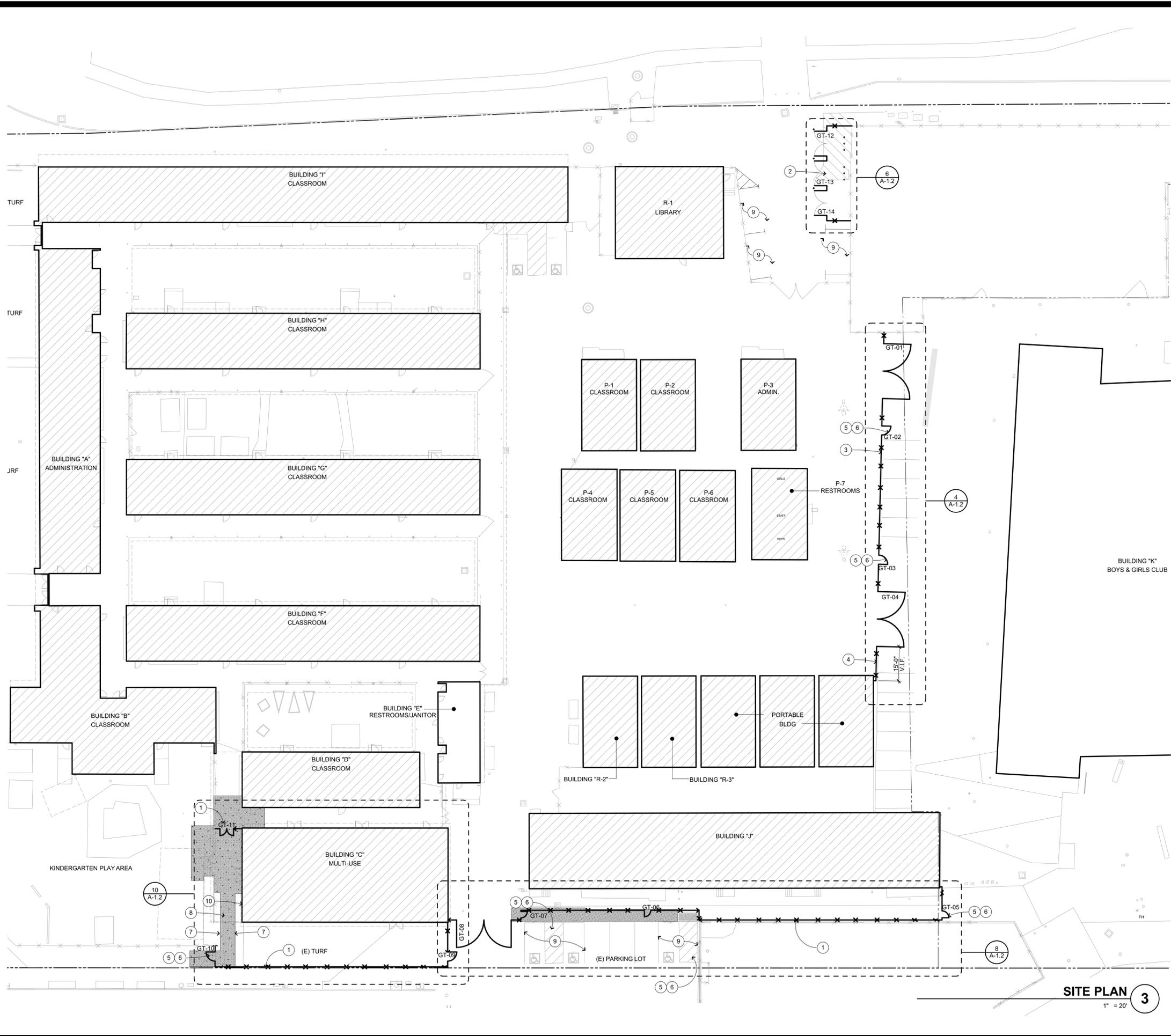


PCC WALK SECTION AND JOINT
 NOT TO SCALE

TAB: C6 DETAILS

05-25-21 bailey \4141.dwg\4141 04\4141.04 DETAIL.dwg

P:\1580.03 - Perimeter Fencing ACLC-NEA, 1900 3rd st. AUSD\Drawings\04-CD\1580.03 Perimeter Fencing ACLC-NEA, 22.pln:5/27/2021 12:36 PM



SITE PLAN 3
1" = 20'

- ### SITE PLAN KEYNOTES
- NOT ALL KEYNOTES MAY APPLY TO THIS SHEET
- 1 CHAIN LINK FENCING, 6'-0" HIGH, BLACK VINYL COATED 1
A-1.3
 - 2 CHAIN LINK FENCING, 6'-0" HIGH 1
A-1.3
 - 3 CHAIN LINK FENCING, 10'-0" HIGH 1
A-1.3
 - 4 PRIVACY SLATS AT CHAIN LINK FENCING
 - 5 PEDESTRIAN GATE, SEE 2
A-1.3
 - 6 LEVEL LANDING AT EA SIDE OF GATES, SEE 4
A-1.3
 - 7 HANDRAIL, SEE 3
A-1.3
 - 8 RAMP, S.C.D.
 - 9 PARKING, S.C.D.
 - 10 ELECTRICAL ITEM, S.E.D.

- ### SITE PLAN GENERAL NOTES
1. SEE SHEET G-0.3 FOR ACCESSIBLE PATH OF TRAVEL INFORMATION
 2. SEE SHEET G-0.2 AND G-0.3 FOR CODE INFORMATION
 3. REFER TO CIVIL ENGINEERING DWGS FOR SIDEWALK GRADES
 4. REFER TO CIVIL ENGINEERING DRAWINGS AND ELECTRICAL ENGINEERING DRAWINGS FOR SITE FEATURES NOT OTHERWISE INDICATED.
 5. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATIONS OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
 6. TO ACCOMPLISH THE FULL SCOPE OF WORK, ADDITIONAL WORK MAY BE REQUIRED BEYOND THE INDICATED SITE WORK. REFER TO ALL CONSTRUCTION DOCUMENTS. ALL SUCH WORK SHALL BE PATCHED AND REPAIRED TO ORIGINAL CONDITION.

- ### SITE PLAN LEGEND
- (E) BUILDING TO BE MODERNIZED
 - (E) BUILDING TO REMAIN
 - CONCRETE, S.C.D.
 - ASPHALT, S.C.D.
 - (E) BUILDING/WALKWAY OVERHANG TO REMAIN
 - (E) CHAIN LINK FENCING TO REMAIN
 - CHAIN LINK FENCING
 - PROPERTY LINE
 - SEE GATE SCHEDULE
 - FIRE HYDRANT

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(707) 576-0829

MARK QUATTROCCHI
LICENSE # C14584
EXP. JULY 31, 2021
STATE OF CALIFORNIA
SIGNED: MAY 25, 2021

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PERIMETER FENCING & MODERNIZATION
1900 Third Street
Alameda, CA 94501
ALAMEDA UNIFIED SCHOOL DISTRICT

DSA APP NO. 01-119358
ARCH PROJECT NO. 1580.03
DRAWN BY: HM
DRAWING SCALE: 1"=20'
PTN: 61119-120 FILE NO: 1-1
CD
MAY 25, 2021
SHEET TITLE

CAMPUS SITE PLAN
SHEET NUMBER
A-1.1

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PERIMETER
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 MODERNIZATION

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 Alameda, CA 94501

ALAMEDA UNIFIED
 SCHOOL DISTRICT

DSA APP NO. 01-119358

ARCH PROJECT NO. 1580.03

DRAWN BY: HM

DRAWING SCALE: AS NOTED

PTN: 61119-120 FILE NO: 1-1

CD

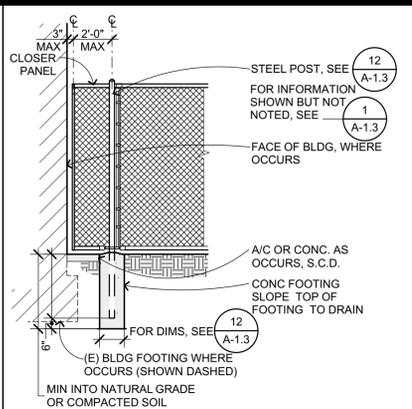
MAY 25, 2021

SHEET TITLE

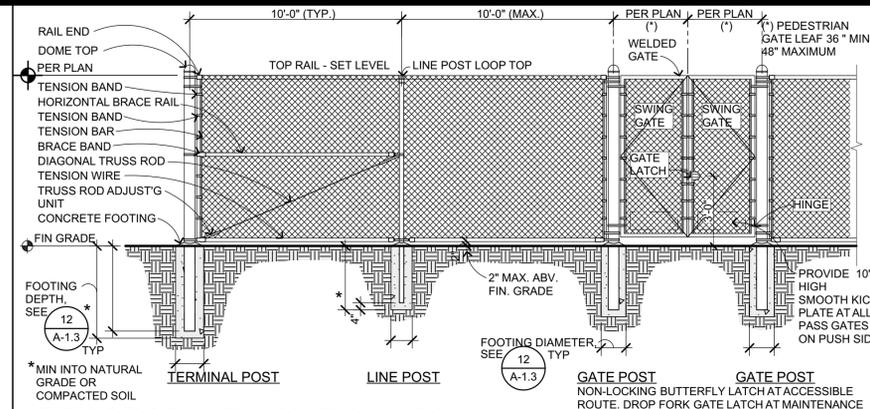
SITE DETAILS

SHEET NUMBER

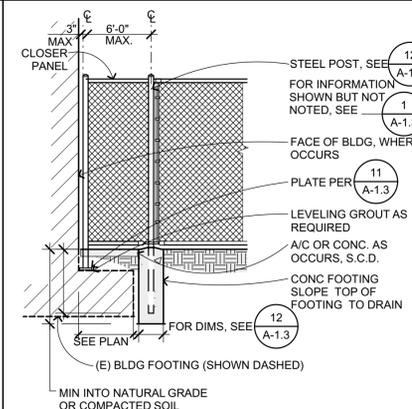
A-1.3



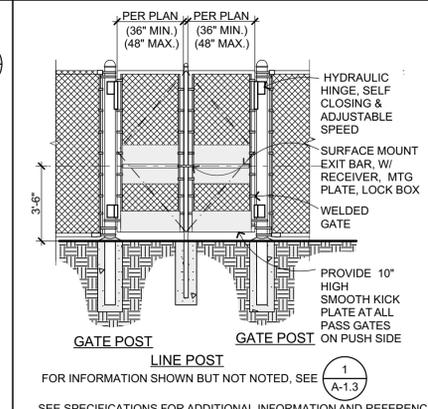
CHAIN LINK FENCE AT BLDG 9
 1/4" = 1'-0" G204105-1617.03



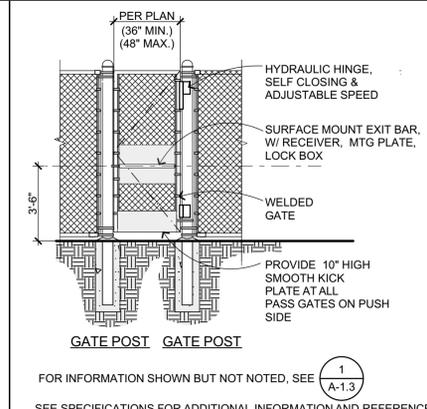
CHAIN LINK FENCE AND GATE 1
 1/4" = 1'-0" G204101



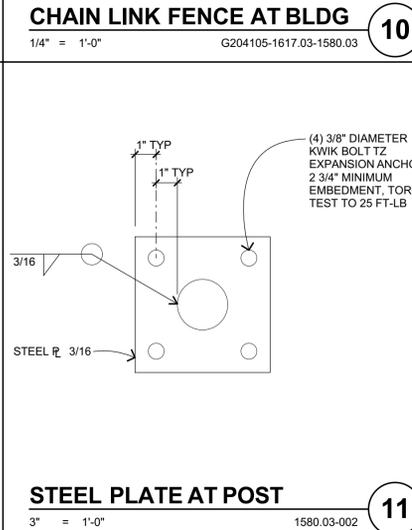
CHAIN LINK FENCE AT BLDG 10
 1/4" = 1'-0" G204105-1617.03-1580.03



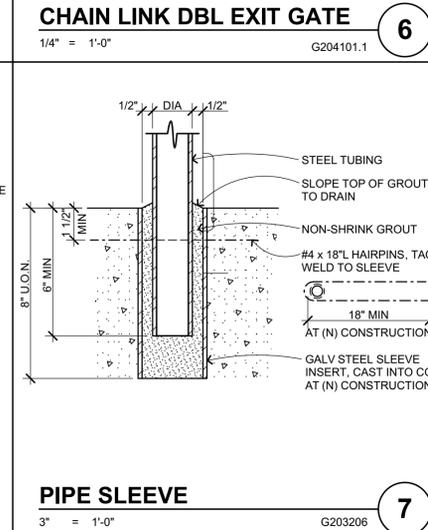
CHAIN LINK DBL EXIT GATE 6
 1/4" = 1'-0" G204101.1



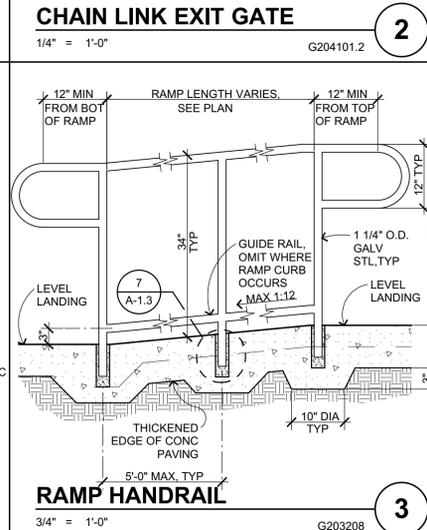
CHAIN LINK EXIT GATE 2
 1/4" = 1'-0" G204101.2



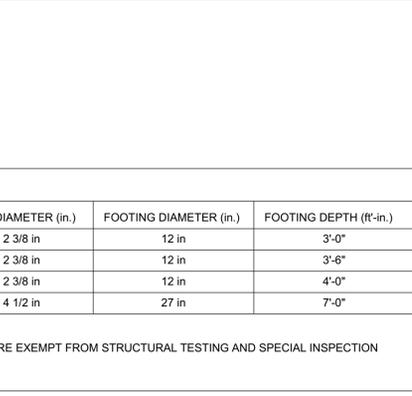
STEEL PLATE AT POST 11
 3" = 1'-0" 1580.03-002



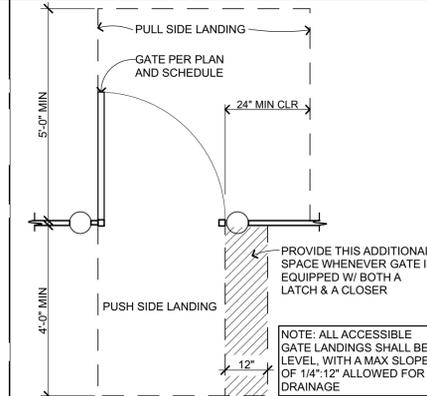
PIPE SLEEVE 7
 3" = 1'-0" G203206



RAMP HANDRAIL 3
 3/4" = 1'-0" G203208



GATE LOCK AND HARDWARE 8
 3" = 1'-0" 1580.03-1580.02-001



ACCESSIBLE GATE LANDINGS 4
 1/2" = 1'-0" B203301-1582.03-1582.02

FENCE FOOTING SCHEDULE						
TYPE	HEIGHT	MAX. SPACING	SLATS?	POST DIAMETER (in.)	FOOTING DIAMETER (in.)	FOOTING DEPTH (ft-in.)
LINE, TERMINAL, AND GATE POST	6'-0"	10'-0"	NO	2 3/8 in	12 in	3'-0"
TERMINAL AT CANTILEVER PANEL	6'-0"	10'-0"	NO	2 3/8 in	12 in	3'-6"
LINE, TERMINAL, AND GATE POST	10'-0"	10'-0"	NO	2 3/8 in	12 in	4'-0"
LINE, TERMINAL, AND GATE POST	10'-0"	8'-0"	YES	4 1/2 in	27 in	7'-0"

NOTE:
 1. CONCRETE PIERS FOR POLES SUPPORTING OPEN MESH FENCES LESS THAN 35'-0" TALL ARE EXEMPT FROM STRUCTURAL TESTING AND SPECIAL INSPECTION PER THE DSA 103 FORM.

FENCE FOOTING SCHEDULE 12
 1/8" = 1'-0"

P:\1580.03 - Perimeter Fencing ACLC-NEA, 1900 3rd st. - AUSD\Drawings\04-CD\1580.03 Perimeter Fencing ACLC-NEA, 22.pln:5/27/2021 12:36 PM

DOOR SCHEDULE												
ID	TYPE	DOOR			FRAME			LOUVER SIZE	LABEL	HDWR	P. H.	REMARKS
		SIZE	MAT	FIN	TYPE	MAT	FIN					
J026A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
J027A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
J028A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
J029A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
J030A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
J031A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
P032A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
P033A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
P034	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
P035A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
P036A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
P038A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
P039A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
P040A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
P041A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
P042A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
P043A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	1		
P125A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	7		
P126A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	7		
P127A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	7		
R023A	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	5	PH	
R023B	(E) A	3'-0" x 7'-0"	(E)	(E)	1	(E)	(E)	-	-	5	PH	

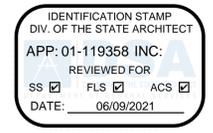
DOOR SCHEDULE												
ID	TYPE	DOOR			FRAME			LOUVER SIZE	LABEL	HDWR	P. H.	REMARKS
		SIZE	MAT	FIN	TYPE	MAT	FIN					
A024A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
A024B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
A100A	(E) C	PR - 3'-0" x 6'-8"	(E)	(E)	2	(E)	(E)	-	-	4	PH	
A100B	(E) C	PR - 3'-0" x 6'-8"	(E)	(E)	2	(E)	(E)	-	-	4	PH	
A100C	(E) C	PR - 3'-0" x 6'-8"	(E)	(E)	2	(E)	(E)	-	-	4	PH	
A106A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	3		
A106B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	3		
A107A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	3		
A108A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	7		
A109A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	3		
A110A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	3		
A111A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	7		
A112A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	6		
A113A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	6		
A115A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	2		
A115B	(E) C	PR - 3'-0" x 6'-8"	(E)	(E)	2	(E)	(E)	-	-	2		
A116A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	2		
A116B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	2		
A117A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
A118A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	7		
A119A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
A119B	(E) A	2'-4" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	2		
B001A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	5	PH	
B001B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	6		
B001C	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	5	PH	
B002A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	5	PH	
B002B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	6		
B002C	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	5	PH	
B002D	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	7		
B025A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	3		
B037A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
C100A	(E) A	PR - 3'-0" x 6'-8"	(E)	(E)	2	(E)	(E)	-	-	4	PH	
C100B	(E) A	PR - 3'-0" x 6'-8"	(E)	(E)	2	(E)	(E)	-	-	4	PH	
C100C	(E) A	PR - 3'-0" x 6'-8"	(E)	(E)	2	(E)	(E)	-	-	4	PH	
C100D	(E) A	PR - 3'-0" x 6'-8"	(E)	(E)	2	(E)	(E)	-	-	4	PH	
C101A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
C102A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	3		
C103A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	3		
C104A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
C104B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
C105A	(E) A	PR - 3'-0" x 7'-0"	(E)	(E)	2	(E)	(E)	-	-	2		
D003A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
D003B	(E) D	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
D004A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
D004B	(E) D	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
E120A	(E) A	2'-8" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
E120B	(E) A	2'-8" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
E121A	(E) B	2'-4" x 6'-8"	(E)	(E)	1	(E)	(E)	1'-0" x 1'-0"	-	2		
E122A	(E) B	2'-4" x 6'-8"	(E)	(E)	1	(E)	(E)	1'-0" x 1'-0"	-	7		
E123A	(E) A	2'-8" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
E123B	(E) A	2'-8" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
E124A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	3		
E124B	(E) B	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	1'-0" x 1'-0"	-	3		
F005A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
F005B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
F006A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
F006B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
F007A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
F007B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
F008A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
F008B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
G009A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
G009B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
G010A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
G010B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
G011A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
G011B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
G012A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
G012B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
H013A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
H013B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
H014A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
H014B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
H015A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
H015B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
H016A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
H016B	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
I017A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
I018A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
I019A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
I020A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
I021A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		
I022A	(E) A	3'-0" x 6'-8"	(E)	(E)	1	(E)	(E)	-	-	1		

GATE SCHEDULE								
ID	GATE TYPE	MATL	WIDTH	HEIGHT	HDWR GROUP	P.H.	DETAIL	REMARKS
GT-01	PAIR SWING	CHAIN LINK	24'-0"	10'-0"	9		1/A-1.3, 8/A-1.3	EVA GATE
GT-02	SINGLE SWING	CHAIN LINK	4'-0"	10'-0"	8	P.H.	2/A-1.3	
GT-03	SINGLE SWING	CHAIN LINK	4'-0"	10'-0"	8	P.H.	2/A-1.3	
GT-04	PAIR SWING	CHAIN LINK	24'-0"	10'-0"	9		1/A-1.3, 8/A-1.3	EVA GATE
GT-05	SINGLE SWING	CHAIN LINK	3'-0"	6'-0"	8	P.H.	2/A-1.3	
GT-06	SINGLE SWING	CHAIN LINK	2'-10"	6'-0"	8	P.H.	2/A-1.3	
GT-07	SINGLE SWING	CHAIN LINK	2'-10"	6'-0"	8	P.H.	2/A-1.3	
GT-08	PAIR SWING	CHAIN LINK	24'-0"	6'-0"	9		1/A-1.3, 8/A-1.3	EVA GATE
GT-09	SINGLE SWING	CHAIN LINK	4'-0"	6'-0"	8	P.H.	2/A-1.3	
GT-10	SINGLE SWING	CHAIN LINK	4'-0"	6'-0"	8	P.H.	2/A-1.3	
GT-11	PAIR SWING	CHAIN LINK	6'-0"	6'-0"	10	P.H.	6/A-1.3	
GT-12	PAIR SWING	CHAIN LINK	16'-0"	6'-0"	9		1/A-1.3, 8/A-1.3	
GT-13	PAIR SWING	CHAIN LINK	16'-0"	6'-0"	9		1/A-1.3, 8/A-1.3	
GT-14	PAIR SWING	CHAIN LINK	16'-0"	6'-0"	9		1/A-1.3, 8/A-1.3	

DOOR GENERAL NOTES

- ALL EXIT DOORS IN SCHOOL BUILDINGS, INCLUDING BUT NOT LIMITED TO DOORS OF TOILET ROOMS AND STORAGE ROOMS SHALL CONFORM TO CBC 1010. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, OR SPECIAL KNOWLEDGE OR EFFORT.
- EXIT DEVICES (PANIC HARDWARE) SHALL BE INSTALLED IN CONFORMANCE WITH CBC 1010.1.10. PANIC HARDWARE IS REQUIRED FROM ROOMS AND CORRIDORS OF A OR E OCCUPANCY WHERE OCCUPANT LOAD EXCEEDS 50 PER CBC 1010.1.10
- ALL DOORS AT E OCCUPANCY WITH AN OCCUPANT LOAD GREATER THAN 5 SHALL BE LOCKABLE FROM THE INSIDE.
- DOORS WITH CLOSERS SHALL BE ADJUSTED TO PROVIDE MINIMUM DOOR CLOSER PERIOD OF FIVE SECONDS FROM A POSITION OF 90 DEGREES TO WITHIN 12 DEGREES OF THE DOOR LATCH, MEASURED FROM THE LEADING EDGE OF THE DOOR.
- MAXIMUM EFFORT TO OPERATE DOORS AND GATES SHALL NOT EXCEED 5 POUNDS APPLIED IN THE DIRECTION OF TRAVEL. REQUIRED FIRE DOORS SHALL HAVE A MAXIMUM OPERATING EFFORT NOT TO EXCEED 15 POUNDS. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION.

Z101005



ACLC-NEA

PERIMETER FENCING & MODERNIZATION

1900 Third Street
Alameda, CA 94501

ALAMEDA UNIFIED
SCHOOL DISTRICT

DSA APP NO. 01-119358

ARCH PROJECT NO. 1580.03

DRAWN BY: HM

DRAWING SCALE: AS NOTED
PTN: 61

ELECTRICAL EQUIPMENT ANCHORAGE

ELECTRICAL ANCHORAGE NOTES:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10, CHAPTER 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 90 DAYS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ABOVE THE CEILING SHALL BE ANCHORED TO THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING ELECTRICAL SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. 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 WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OF STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1616A.1.24, 1616A.1.25, AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM AREN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (eg. SMACNA OR OSHPD OPM). 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.

ELECTRICAL DISTRIBUTION SYSTEMS ARE:

- [X] - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- [] - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #).

LIGHT FIXTURES:

ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.

SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF 1/4 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

LIGHT FIXTURES WEIGHING LESS THAN 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.

ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

SYMBOLS LIST

	FIRE ALARM SYSTEM END-OF-LINE RESISTOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	WEATHERPROOF ENCLOSURE
	CONDUIT AND WIRE CONCEALED IN CEILING OR WALL
	CONDUIT AND WIRE CONCEALED IN OR UNDER SLAB OR UNDERGROUND
	CONDUIT AND WIRE RUN EXPOSED
	CROSSMARKS INDICATE QUANTITY OF #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR. (INCLUDED BUT NOT INDICATED), NO HASHTAGS INDICATES (2) #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, U.O.N.
	GROUND WIRE
	WIRE SIZE 10 AWG FOR ALL CONDUCTORS, INCLUDING GROUND WIRE, THROUGHOUT THE COMPLETE CIRCUIT
	FLEXIBLE METALLIC CONDUIT
	HOMERUN TO PANELBOARD OR TERMINAL BOARD, AS NOTED ON PLANS
	COMPLETE CONNECTION OF EQUIPMENT
	CONDUIT STUBBED OUT, CAPPED AND MARKED
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	DETAIL SEPARATION - SEE DETAIL 3, SHEET E-6
	NUMBERED SHEET NOTE
	UTILITY METER
	CURRENT TRANSFORMERS
	CIRCUIT BREAKER. NUMBER INDICATES 30A 3-POLE
	FEEDER SIZE - SEE POWER SINGLE LINE DIAGRAMS & FEEDER SCHEDULE

SYMBOLS LIST

	MAIN SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
	FLUSH MOUNTED PANELBOARD, 6'-6" TO TOP
	SURFACE MOUNTED PANELBOARD, 6'-6" TO TOP
	CONCRETE PULLBOX, SIZE AS REQUIRED OR SHOWN - CHRISLY OR EQUAL WITH LABELED LID PER USE
	COPPER GROUND ROD
	FLUSH CEILING MOUNTED JUNCTION BOX, U.O.N.
	FLUSH WALL MOUNTED JUNCTION BOX, UP 18" U.O.N.
	JUNCTION BOX FLUSH FLOOR MOUNTED
	20A 3PG 125V DUPLEX RECEPTACLE, UP 18" U.O.N.
	20A 3PG 125V DUPLEX RECEPTACLE, WEATHERPROOF, UP 18" U.O.N.
	20A 3PG 125V DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE, UP 18" U.O.N.
	20A 3PG 125V DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, UP 18" U.O.N.
	20A 3PG 125V DUPLEX RECEPTACLE, TAMPER RESISTANT, UP 18" U.O.N.
	20A 3PG 125V DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER, U.O.N.
	20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, UP 18" U.O.N.
	20A 3PG 125V DOUBLE DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER, U.O.N.
	20A 3PG 125V SINGLE DUPLEX RECEPTACLE, UP 18" U.O.N.
	20A 3PG 125V SINGLE TWISTLOCK RECEPTACLE, NEMA 15-20R, UP 18" U.O.N.
	SPECIAL RECEPTACLE AS INDICATED ON PLANS
	CONTROLLED AND IDENTIFIED (SPLIT-WHIRE) DUPLEX RECEPTACLE, WITH ONE HALF OF RECEPTACLE WIRED THROUGH LOCAL PLUG-LOAD CONTROLLER, UP 18" U.O.N.
	CONTROLLED DUPLEX RECEPTACLE WIRED THROUGH LOCAL PLUG-LOAD CONTROLLER, UP 18" U.O.N.
	LINE VOLTAGE THERMOSTAT, PROVIDED & INSTALLED BY ELECTRICAL, CONNECTED COMPLETE BY MECHANICAL.
	SURFACE MOUNTED WIREMOLD RACEWAY WITH RECEPTACLES AS INDICATED ON PLANS
	TERMINAL MOUNTING BACKBOARD, 3/4" PLYWOOD, DIMENSIONS AS NOTED ON PLANS, PAINT TO MATCH ADJACENT WALL SURFACE, MAINTAINING UL FIRE LABEL VALUE
	FIRE ALARM SYSTEM MANUAL PULL STATION, UP 48" U.O.N.
	FIRE ALARM SYSTEM HORN/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
	WEATHERPROOF FIRE ALARM SYSTEM HORN/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
	FIRE ALARM SYSTEM HORN/STROBE, CEILING MOUNTED. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
	FIRE ALARM SYSTEM STROBE, CEILING MOUNTED. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
	WEATHERPROOF FIRE ALARM SYSTEM HORN, UP 90" U.O.N.
	FIRE ALARM SYSTEM SPEAKER/STROBE, UP 80" U.O.N. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
	FIRE ALARM SYSTEM SPEAKER/STROBE, CEILING MOUNTED. NUMBER ADJACENT INDICATES CANDELA VALUE FOR STROBE
	FIRE ALARM SYSTEM SPEAKER, UP 90" U.O.N.
	WEATHERPROOF FIRE ALARM SYSTEM SPEAKER, UP 90" U.O.N.
	FIRE ALARM SYSTEM SPEAKER, CEILING MOUNTED
	WALL MOUNTED ELECTROMAGNETIC DOOR HOLD-OPEN DEVICE, FURNISHED BY DIV. 8, INSTALLED & CONNECTED COMPLETE TO FIRE ALARM SYSTEM BY DIV. 28
	FIRE ALARM SYSTEM SMOKE DETECTOR
	FIRE ALARM SYSTEM CEILING MOUNTED SMOKE DETECTOR PROGRAMMED FOR AUTOMATIC RECALL OF ELEVATOR
	FIRE ALARM SYSTEM HEAT DETECTOR
	FIRE ALARM SYSTEM HVAC DUCT MOUNTED SMOKE DETECTOR, COORDINATE WITH MECHANICAL FOR SUPPLY, INSTALL AND COMPLETE CONNECTION (INCLUDING CONTROL OF HVAC EQUIPMENT) - SEE SPECIFICATIONS
	FIRE ALARM SYSTEM MONITOR MODULE
	FIRE ALARM SYSTEM CONTROL MODULE
	FIRE ALARM SYSTEM RELAY MODULE

SYMBOLS LIST

	ALL SWITCH AND CONTROL MOUNTING HEIGHTS OF 48" SHALL BE TO TOP OF THE DEVICE BOX. ALL RECEPTACLES WITH MOUNTING HEIGHT OF UP TO 18" SHALL BE NO LOWER THAN 15" TO BOTTOM OF THE DEVICE BOX, TYPICAL, U.O.N.
	INDICATES LUMINAIRE TYPE, SEE LUMINAIRE SCHEDULE
	RECESSED 2'x2', 2'x4' OR 1'x4' LUMINAIRE, FULLY LENSED
	RECESSED 2'x2', 2'x4' LUMINAIRE WITH DECORATIVE ARTICULATED OPTICAL SHIELD
	INDICATES EMERGENCY LUMINAIRE. SEE ABBREVIATIONS FOR TYPE OF EMERGENCY SOURCE
	SUSPENDED LINEAR LUMINAIRE
	INDICATES AIRCRAFT CABLE SUPPORT POINT (VERIFY WITH MANUFACTURER)
	INDICATES COMBINATION AIRCRAFT CABLE/ELECTRICAL FEED POINT (VERIFY WITH MANUFACTURER)
	SURFACE CEILING, WALL OR COVE MOUNTED LUMINAIRE
	UNDER CABINET LUMINAIRE
	SURFACE OR SUSPENDED STRIP LUMINAIRE
	SURFACE CEILING MOUNTED LUMINAIRE
	PENDANT MOUNTED LUMINAIRE
	DECORATIVE CEILING MOUNTED LUMINAIRE
	SURFACE MOUNTED LIGHTING TRACK WITH TRACK LUMINAIRES
	RECESSED ADJUSTABLE ACCENT LUMINAIRE. ARROW INDICATES AIMING DIRECTION
	RECESSED DOWNLIGHT LUMINAIRE
	RECESSED WALLWASH LUMINAIRE
	RECESSED OR SURFACE MOUNTED LINEAR WALLWASHER, OPEN AREA INDICATES DIRECTION OF ILLUMINATION
	RECESSED DOWNLIGHT WITH DECORATIVE TRIM
	WALL MOUNTED LUMINAIRE
	SPRELIGHT RECESSED FLUSH IN WALL
	POLE ARM-MOUNTED AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION WHEN NOT PARALLEL TO ARM ORIENTATION
	POLE ARM-MOUNTED PEDESTRIAN-SCALE WALKWAY OR AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
	POST-TOP PEDESTRIAN-SCALE AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
	BOLLARD LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
	FLUSH IN-GROUND LANDSCAPE OR BUILDING UPLIGHT, NON-ADJUSTABLE AIMING
	FLUSH IN-GROUND LANDSCAPE OR BUILDING UPLIGHT WITH ADJUSTABLE AIMING FEATURE; ARROW INDICATES AIMING DIRECTION
	FLUSH IN-GROUND WALLWASH UPLIGHT; OPEN AREA INDICATES DIRECTION OF ILLUMINATION
	STEM MOUNTED SIGN LIGHT
	WALL MOUNTED EXIT SIGN, ARROWS AS NOTED ON PLANS. SHADED AREA INDICATES NUMBER OF FACES
	CEILING MOUNTED EXIT SIGN, ARROWS AS NOTED ON PLANS. SHADED AREA INDICATES NUMBER OF FACES
	LOW LEVEL WALL MOUNTED EXIT SIGN
	WALL MOUNTED EMERGENCY BATTERY EGRESS LUMINAIRE WITH NUMBER OF ADJUSTABLE LAMP HEADS INDICATED
	LINE VOLTAGE SINGLE POLE TOGGLE SWITCH, LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
	LINE VOLTAGE TWO POLE TOGGLE SWITCH, UP 48" U.O.N.
	LINE VOLTAGE THREE-WAY TOGGLE SWITCH, UP 48" U.O.N.
	LINE VOLTAGE KEY OPERATED TOGGLE SWITCH
	LINE VOLTAGE MOTOR RATED TOGGLE SWITCH INSTALLED AT EQPT SHOWN
	LINE VOLTAGE TOGGLE SWITCH WITH PILOT LIGHT, LIGHT IS ON WHEN CIRCUIT IS CLOSED, UP 48" U.O.N.
	LINE VOLTAGE MOMENTARY CONTACT SWITCH - SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
	LOW VOLTAGE KEYPED MOMENTARY CONTACT SWITCH - SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
	WALL MOUNTED SWITCH TYPE INFRARED OCCUPANCY SENSOR; UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY LETTERS ADJACENT. SET TO FIXED 20 MINUTE TIME DELAY AND MAX SENSITIVITY
	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR; UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY LETTERS ADJACENT. SET TO FIXED 20 MINUTE TIME DELAY AND MAX SENSITIVITY
	WALL MOUNTED DIGITAL DUAL TECHNOLOGY DIMMING OCCUPANCY SENSOR SWITCH; UP 48" U.O.N.
	WALL MOUNTED DIGITAL SWITCH, UP 48" U.O.N.; LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED
	WALL MOUNTED SINGLE OR MULTI-ZONE DIGITAL DIMMER SWITCH, UP 48" U.O.N.; LOWER CASE LETTERS ADJACENT INDICATE RESPECTIVE ZONES TO BE SIMULTANEOUSLY MANUALLY CONTROLLED, NUMERAL DESIGNATES NUMBER OF ZONES ASSIGNED TO THE DEVICE
	CEILING MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR
	WALL MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR
	LOW VOLTAGE COLD TEMPERATURE PIR OCCUPANCY SENSOR
	CEILING MOUNTED LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR
	SINGLE OR MULTI-ZONE SWITCHING OR DIMMING OPEN LOOP DIGITAL DAYLIGHTING SENSOR; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
	SINGLE ZONE SWITCHING OR DIMMING CLOSED LOOP DIGITAL DAYLIGHTING SENSOR; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
	DAYLIGHT CONTROL PHOTOCELL - BRACKET MOUNTED; NOTATIONS ADJACENT IDENTIFY DAYLIGHT ZONES ASSIGNED TO THE DEVICE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
	INDICATES DAYLIGHT ZONE CONTROLLED VIA PHOTOCELL
	ROOM CONTROLLER
	ADJACENT NUMERAL REFERS TO THE NUMBER OF ZONES TO BE CONTROLLED. VENDOR OR CONTRACTOR TO PROVIDE QUANTITY OF ROOM CONTROLLERS REQUIRED FOR THE NUMBER OF CONTROLLED ZONES.
	PLUG LOAD ROOM CONTROLLER
	NETWORK BRIDGE
	MASTER WIRELESS BORDER ROUTER & NB - SWITCH IN NETWORK CABINET; SEE DETAILS FOR TYPE
	SECONDARY WIRELESS BORDER ROUTER
	ISOLATED RELAY INTERFACE
	EMERGENCY LIGHTING CONTROL MODULE
	OCCUPANCY SENSOR POWER PACK MOUNTED IN CONCEALED ACCESSIBLE LOCATION

CALIFORNIA GREEN BUILDING STANDARDS COMPLIANCE
 ALL EXTERIOR LUMINAIRES SPECIFIED IN THESE CONTRACT DOCUMENTS COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE, SECTION A5.106.8 LIGHT POLLUTION REDUCTION. EXTERIOR LUMINAIRES COMPLY WITH BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS DEFINED IN IESNA TM-15-11 AND BUG RATINGS DO NOT EXCEED THE MAXIMUM ALLOWABLE RATINGS FOR THIS PROJECT.

GENERAL NOTES

1. PRIOR TO BID THE CONTRACTOR SHALL VISIT THE SITE TO ADEQUATELY DETERMINE ALL PRE-EXISTING CONDITIONS. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES THEREFORE IN PREPARING THE BID.
2. PROVIDE PARTY SIZED GREEN GROUND WIRE IN ALL POWER CONDUITS, BRANCH CIRCUITS (LIGHTING & POWER) AND HOMERUNS. PROVIDE ADDITIONAL ISOLATED GROUND, GREEN WITH YELLOW STRIPE, TO ALL ISOLATED GROUND RECEPTACLES.
3. PROVIDE PULLROPE IN ALL EMPTY CONDUITS THROUGHOUT THE PROJECT.
4. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION & CONNECTION REQUIREMENTS OF ALL LUMINAIRES(S) AND ALL OUTLET, SWITCH, AND ELECTRICAL RELATED DEVICE MOUNTING HEIGHTS AND LOCATIONS. COORDINATE LOCATIONS OF ALL LUMINAIRES(S) AND JUNCTION BOXES WITH MECHANICAL DIVISION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF ELECTRICAL DEVICES WITH FURNITURE PLANS PRIOR TO ROUGH-IN.
5. REFER TO MECHANICAL PLANS FOR EXACT LOCATION(S) OF ALL MECHANICAL EQUIPMENT, AND CONFIRM EXACT CONNECTION REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DIVISION, PRIOR TO ROUGH-IN. VERIFY EXACT REQUIREMENTS FOR VOLTAGE, PHASE, HORSE-POWER, OR KVA RATINGS, OF ALL MECHANICAL DIVISION EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
6. VERIFY EXACT CONNECTION REQUIREMENTS, OUTLET TYPE(S), MOUNTING HEIGHT(S) AND LOCATION(S) OF ALL OWNER-SUPPLIED EQUIPMENT, AND ALL EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE SPECIFICATIONS, PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL DRAWINGS FOR EQUIPMENT LOCATIONS.
7. COORDINATE TRENCHING WITH OWNER AND OTHER TRADES BEFORE BEGINNING WORK.
8. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE SEALED AND EQUIPPED WITH U.L. LISTED FIRE PENETRATION ASSEMBLIES TO MAINTAIN FIRE SEPARATION RATING.
9. DO NOT INSTALL ANY OUTLETS BACK TO BACK IN STUD WALLS OR DE-MOUNTABLE PARTITIONS.
10. THE CONTRACTOR SHALL VERIFY ALL CEILING TYPES BEFORE ORDERING OF LUMINAIRE(S). ALSO VERIFY THAT ALL FEATURES CALLED FOR IN LUMINAIRE DESCRIPTIONS ON THE LUMINAIRE SCHEDULE ARE INCLUDED WITH CATALOG NUMBERS LISTED ON THE LUMINAIRE SCHEDULE WHEN LUMINAIRE ORDERS ARE PLACED, AND ARE INCLUDED AS PART OF THE LIGHTING SUBMITTALS FOR THIS PROJECT. IF A DISCREPANCY EXISTS, CONTACT THE ARCHITECT AND ELECTRICAL ENGINEER FOR CLARIFICATION PRIOR TO BID.
11. CIRCUITRY AND CONDUIT ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THIS CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AND LIMITATIONS IN THE BUILDING AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION WHEREVER INDICATED ON THE PLANS.
12. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED DEVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE SPECIFICATIONS, AND/OR CALLED FOR IN THE SPECIFICATIONS.
13. DRAWINGS INDICATE THE LOCATION(S) OF DEVICES, LUMINAIRE(S) AND EQUIPMENT, AND THE CIRCUIT NUMBER AND PANEL DESIGNATED TO SUPPLY THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
14. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED COMPLETE UNDER THIS CONTRACT.
15. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
16. ALL EXTERIOR CONDUIT ABOVE GROUND, INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE GALVANIZED RIGID STEEL. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT. PAINT ALL SURFACE MOUNTED RACEWAYS AND PULLBOXES TO MATCH SURROUNDING CONDITIONS, AS DIRECTED BY THE ARCHITECT.
17. ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C., AS WELL AS STATE, AND LOCAL CODES AND REQUIREMENTS.
18. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE MAIN SWITCHBOARD INCOMING TERMINALS WITH THE UTILITY COMPANY, AND TO VERIFY THAT ALL POWER AND SIGNAL SERVICE PROVISIONS, INCLUDING CONDUIT EQUIPMENT PADS, CONDUITS, PULLBOXES AND CLEARANCES, MEET THE UTILITY COMPANY'S REQUIREMENTS, PRIOR TO INSTALLATION.
20. EQUIPMENT OVERLOADS AND FUSES SHALL BE PROVIDED AND INSTALLED AS PER NAME PLATE ON THE EQUIPMENT ACTUALLY PROVIDED.
21. THE CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.
22. THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
23. ALL EXIT SIGNS SHALL COMPLY WITH THE RELEVANT PORTIONS OF SECTIONS 1008 AND 1013 OF THE CBC.
24. ALL MECHANICAL DIVISION EQUIPMENT LOW VOLTAGE CONTROL WIRING AND RACEWAY SHALL BE PROVIDED AND INSTALLED AS SPECIFIED IN MECHANICAL DIVISION U.O.N.
25. COORDINATE INSTALLATION OF ALL RECESSED LUMINAIRE(S) WITH MECHANICAL DIVISION PRIOR TO INSTALLATION OF HVAC DUCTS AND SPRINKLER HEADS. ENSURE AFTER INSTALLATION OF LUMINAIRE(S) THAT THERE IS NO CONTACT BETWEEN DUCTS AND LUMINAIRE(S) TO AVOID VIBRATION IN LUMINAIRE(S).
26. USE FLEXIBLE CONDUIT FOR ALL MOTOR, TRANSFORMER, RECESSED LUMINAIRE CONNECTIONS, AND CONNECTIONS BETWEEN TWO SEPARATE STRUCTURES AND FOR ALL FINAL CONNECTIONS TO "CRITICAL EQUIPMENT" AS DEFINED IN SPECIFICATIONS. MINIMUM 1/2" DIAMETER, LIQUID TIGHT TYPE USED OUTDOORS AND IN ALL WET LOCATIONS; PROVIDE WITH CODE-SIZE (MINIMUM #12) BARE GROUND WIRE IN ALL FLEXIBLE CONDUIT.
27. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS FEEDING OUTLETS AS NOTED ON THE DRAWINGS.
28. FOR FLUSH MOUNTED PANELBOARDS THE CONTRACTOR SHALL STUB A MINIMUM OF FOUR (4) 3/4" CONDUITS FROM THE PANEL UP INTO THE ACCESSIBLE CEILING ABOVE FOR FUTURE CIRCUITS.
29. ALL CONDUIT CONNECTORS TO OUTLET OR JUNCTION BOXES SHALL HAVE INSULATED THROATS (MANUFACTURED AS AN INTEGRAL PART OF THE CONNECTOR). AFTER-MARKET INSERTABLE THROATS ARE NOT ACCEPTABLE.
30. ALL CIRCUITS IN ALL JUNCTION BOXES AND DEVICES SHALL BE CLEARLY IDENTIFIED BY MEANS OF "EZ" NUMBERING TAGS OR EQUIVALENT, TO IDENTIFY THE CIRCUIT NUMBER OR RELAY SUPPLYING THE CONDUCTOR. ALL JUNCTION BOXES SHALL BE LABELED PER SPECIFICATIONS.
31. ALL SURFACE MOUNTED POWER AND SIGNAL BOXES IN FINISHED AREAS SHALL BE "WIREMOLD" TYPE, WITH MATCHING RACEWAYS. SURFACE MOUNTED STEEL JUNCTION BOXES AND/OR EMT ARE NOT ACCEPTABLE.
32. ALL LOCATIONS OF BARE METAL SURFACE MOUNTED CONDUIT, BOXES, PANEL COVERS, AND RELATED FITTINGS OR ACCESSORIES INSTALLED IN FINISHED AREAS (BOTH INTERIOR AND EXTERIOR) SHALL BE FINISH PAINTED TO MATCH THE SURFACE TO WHICH THEY ARE MOUNTED TO (AFTER INSTALLATION). PAINTING SHALL INCLUDE DIFFERENT COLORS AS REQUIRED TO MATCH EXISTING STRIPING OR OTHER BUILDING FEATURES TO WHICH THE EQUIPMENT IS ATTACHED AND VISIBLE. VERIFY EXACT JUNCTION BOX LOCATION(S) AND ROUTING OF EXPOSED RACEWAYS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
33. PROVIDE A BLANK COVER PLATE (COLOR TO MATCH ADJACENT DEVICES OR AS SPECIFICALLY CALLED FOR IN SPECIFICATIONS) FOR ALL JUNCTION BOXES (NEW AND EXISTING) ON THE PROJECT WHEN NO DEVICE IS INSTALLED.
34. FOR OUTDOOR 15 AND 20-AMPERE, 125 AND 250-VOLT RECEPTACLES: RECEPTACLES LOCATED IN "WET" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES PROVIDED AND INSTALLED; RECEPTACLES LOCATED IN "DAMP" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES IN LOCATIONS DEEMED TO BE "IN-USE" WITH CORD AND PLUG ATTACHED.
35. TWO OR THREE DIFFERENT PHASES SUPPLIED BY A 3-PHASE PANEL MAY SHARE A SINGLE NEUTRAL ONLY IF CIRCUIT POSITIONS ARE ADJACENT IN THE PANEL, PROVIDE COMMON HANDLE-TIE ON BRACKETS FOR MULTI-PHASE BRANCH CIRCUITS, WITH COMMON NEUTRAL, PER NEC REQUIREMENTS.

LIST OF DRAWINGS

E-0.1	SYMBOLS LIST, GENERAL NOTES & LIST OF DRAWINGS
E-1.2	SITE PLAN - LIGHTING
FE-0.1	FIRE ALARM EQUIPMENT LIST, NOTES & DIAGRAMS
FE-1.1	SITE PLAN - FIRE ALARM
FE-3.1	FLOOR PLAN - FIRE ALARM
FE-5.1	RISER DIAGRAM - FIRE ALARM
FE-6.1	CALCULATIONS - FIRE ALARM

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 01-119358 INC:
 REVIEWED FOR
 SS FLS ACS
 DATE: 06/09/2021

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P.



NUMBERED SHEET NOTES

- 1 PROVIDE AND INSTALL NEW TYPE BA1 WALL MOUNTED LUMINAIRE - LITHONIA LIGHTING: WDG2-LED-P3-27K-90CRI-VW-INVOLT-SRM-PBBW-FINISH AT LOCATION INDICATED. VERIFY LED COLOR TEMPERATURE TO MATCH EXISTING SITE LIGHTING. VERIFY FINISH WITH THE ARCHITECT.
- 2 EXTEND EXISTING CIRCUIT FROM ADJACENT LUMINAIRE TO NEW LOCATION. MOUNTING HEIGHT TO MATCH ADJACENT LUMINAIRE. PAINT EXPOSED CONDUIT AND HARDWARE PER THE DIRECTION OF THE ARCHITECT.

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ACLC-NEA

PERIMETER
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 MODERNIZATION

1900 THIRD STREET
 ALAMEDA, CA 94501

ALAMEDA UNIFIED
 SCHOOL DISTRICT

REVISIONS

NO.	DESCRIPTION

DSA APP NO. 01-119358

ARCH PROJECT NO. 1580.03

DRAWN BY: TV/LN/JW/OOM

DRAWING SCALE: AS NOTED

PTN: 61119-120 FILE NO: 1-1

CD

MAY 24, 2021

SHEET TITLE

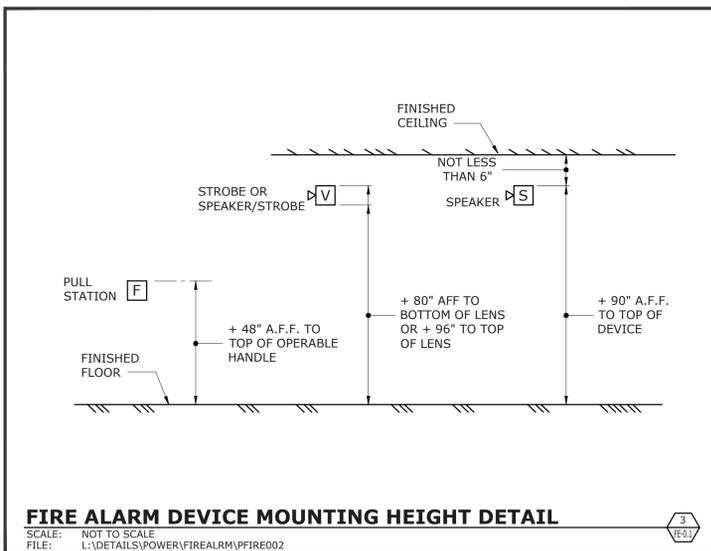
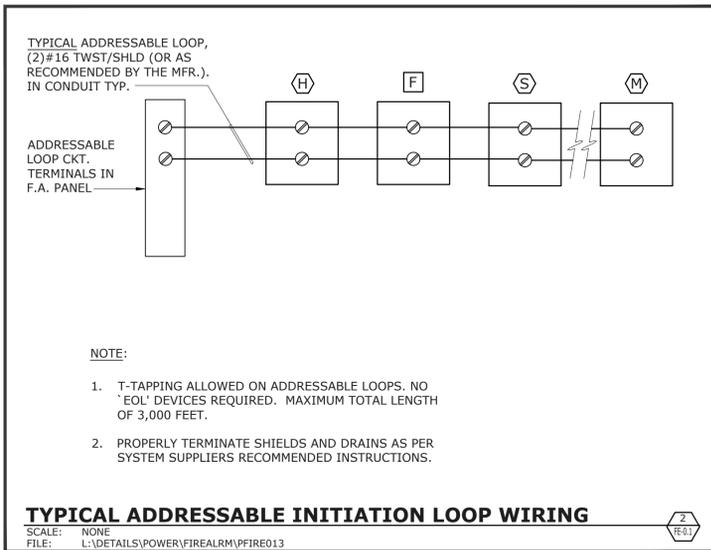
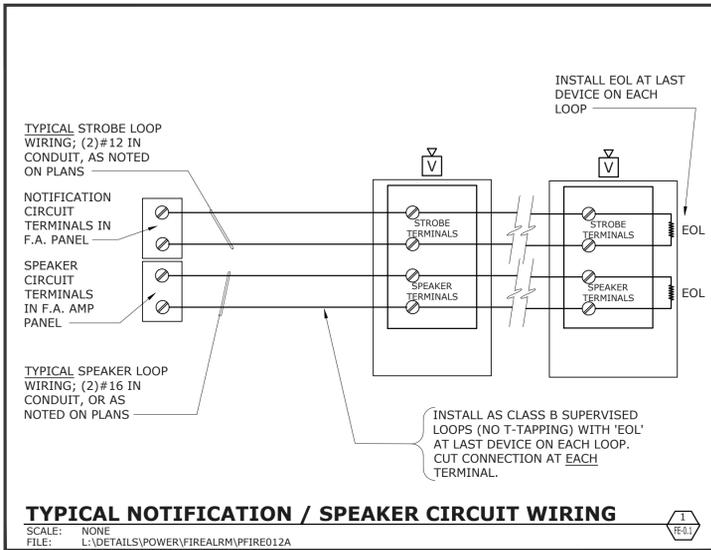
SITE PLAN -
 LIGHTING

SHEET NUMBER

E-1.2

SITE PLAN - LIGHTING
 SCALE: 1" = 20'-0"





GENERAL FIRE ALARM NOTES

- FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE. DSA/ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF (48) HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
- FIRE ALARM CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2. MONITORING SHALL BE TESTED AND VERIFIED AS SENDING THE CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT AND/OR PROVISIONS.
- UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS.
- FIRE ALARM DEVICE MOUNTING HEIGHTS:
 - PULL STATION: 48" TO TOP OF OPERATOR ABOVE FINISHED FLOOR.
 - HORN INTERIOR: 90" MIN. TO TOP OF DEVICE ABOVE FINISHED FLOOR, OR 100" MAX TO TOP OF DEVICE, BUT NOT LESS THAN 6" FROM CEILING.
 - WALL MOUNTED STROBE OR HORN/STROBE: BETWEEN 80" TO BOTTOM OF DEVICE LENS TO +96" TO TOP OF DEVICE LENS ABOVE FINISH FLOOR, BUT NOT LESS THAN 6" FROM CEILING.
 - CONTROL PANELS / ANNUNCIATORS: 48" TO BOTTOM OF EQUIPMENT.
- AUDIBLE FIRE ALARM SYSTEM LEVEL SHALL BE AT LEAST 15dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS, OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED AT 5 FEET ABOVE THE FLOOR. AUDIBLE SIGNALS SHALL NOT BE LESS THAN 75dBA AT 10 FEET, OR MORE THAN 110dBA AT THE MINIMUM HEARING DISTANCE.
- AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL THREE DISTINCTIVE FIRE ALARM SOUND PER NFPA 72.
- APPLICABLE CODES:
 - a. CBC 2019; CEC 2019; CM 2019; CFC 2019.
 - b. STATE FIRE MARSHAL TITLE 19, PUBLIC SAFETY.
 - c. NFPA 72, 2016 EDITION W/CA AMENDMENTS, FIRE ALARM CODE.
- STROBES SHALL FLASH AT A RATE NOT EXCEEDING TWO FLASHES PER SECOND, AND NOT LESS THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55 FEET OF EACH OTHER SHALL BE SYNCHRONIZED.
- FIRE ALARM CONTRACTOR SHALL PROVIDE A COPY OF NFPA 72 SYSTEM RECORD OF COMPLETION, SYSTEM RECORD OF INSPECTION AND TESTING, AND THE "EMERGENCY COMMUNICATIONS SUPPLEMENTARY RECORD OF COMPLETION", TO THE INSPECTOR OF RECORD IOR/DSA, SCHOOL DISTRICT, ARCHITECT AND LOCAL FIRE AUTHORITY.
- POWER SERVICE TO THE FACP, REMOTE POWER SUPPLIES, AND CENTRAL STATION AUTO DIALER SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL".
- INSTALL ALL WIRING IN CONDUIT, MIN. 3/4" CONDUIT. ALL FIRE ALARM SYSTEM WIRING SHALL BE FPL (FIRE POWER LIMITED) OR FPLP (FIRE POWER LIMITED PLENUM RATED) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THIN OR THWN.
- CONDUIT AND WIRING SHALL BE PER MANUFACTURERS REQUIREMENTS.
- ALL FIRE ALARM COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICES/EQPT. SHALL EXCEED 20LBS. WITHOUT SPECIAL MOUNTING DETAILS.
- INSTALLATION OF SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE SET OF CONSTRUCTION DOCUMENTS (WITH DEVICE TYPES AND LISTINGS) HAVE BEEN REVIEWED AND APPROVED BY DSA.
- A STAMPED SET OF APPROVED PLANS SHALL BE ON THE JOB SITE AT ALL TIMES AND SHALL BE USED FOR INSTALLATION.
- ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND ARCHITECT/ENGINEER OF RECORD.
- THE CONTRACTOR SHALL INSTALL AND ADJUST ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1 FOOT FROM FIRE SPRINKLER HEADS OR 3 FEET FROM ANY SUPPLY DIFFUSER. IN AREAS OF CONSTRUCTION OR POSSIBLE DAMAGE /CONTAMINATION, INSTALLED DEVICES SHALL BE COVERED UNTIL AREA IS READY TO BE TURNED OVER TO THE OWNER.
- PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE ALARM DEVICE. DO NOT SPLICE WIRE. THERE MUST BE AT LEAST 6" OF WIRE LEAD FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC FOR PROPER VOLUME WITH INSTALLED WIRING AND DEVICES.
- SUPERVISING STATION: AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72, AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UL/ULX OR UL/US BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
- A DOCUMENTATION CABINET SHALL BE INSTALLED ADJACENT TO THE FACP IN THE MAIN ELECTRICAL ROOM (NFPA 72, 7.7.2.1). SPACE AGE ELECTRONICS INC, ACERBOX FAD SERIES (#SSU00685 OR EQUAL).
- ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (NFPA 72, 7.7.2.3); PROVIDE NAMEPLATE "FIRE ALARM SYSTEM RECORD DOCUMENTS" (NFPA 72, 7.7.2.5).
- FIRE ALARM MANUAL PULLSTATIONS SHALL MEET THE CALIFORNIA ACCESSIBILITY REQUIREMENTS OUTLINED IN THE CBC ("CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE TO ACTIVATE THE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS OF FORCE". REFER TO DSA ACCESSIBILITY STAFF FOR QUESTIONS OR CLARIFICATION.)

SEQUENCE OF OPERATION

- MANUAL PULL STATION - WHEN A PULL STATION IS PULLED, IT SHALL ANNUNCIATE AN ALARM AT THE FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS.
- SMOKE AND HEAT DETECTORS - WHEN A SMOKE OR HEAT DETECTOR IS ACTIVATED, IT SHALL ANNUNCIATE AN ALARM AT THE FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS.
- ANY BUILDING POWER FAILURE - IF THE BUILDING LOSSES POWER, THE FAILURE SHALL SHOW UP AS A TROUBLE SIGNAL ON THE FACP. THE SYSTEM SHALL STAY ACTIVE ON BATTERY BACK-UP POWER IN ACCORDANCE WITH THE STATE FIRE CODE.
- SYSTEM SHALL INDICATE TROUBLE ALARMS FOR ALL SYSTEM FAULTS (i.e. GROUND FAULTS, SHORTS, OPEN CIRCUITS, BATTERY DISCONNECT, ETC.).
- FIRE/SMOKE DAMPERS - WHEN A FIRE/SMOKE DAMPER SMOKE DETECTOR IS ACTIVATED, IT SHALL ANNUNCIATE AN ALARM AT THE MAIN FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS AND SHALL SHUT DOWN THE ASSOCIATED HVAC UNIT.
- FIRE SPRINKLER SYSTEM - WHEN A FLOW SWITCH IS ACTIVATED, IT SHALL ANNUNCIATE AN ALARM AT THE MAIN FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS. WHEN TAMPER SWITCH IS ACTIVATED, IT SHALL ANNUNCIATE A SUPERVISORY ALARM AT THE MAIN FACP.
- UPON ALARM CONDITION, AUTO DIALER TO NOTIFY THE SUPERVISING STATION, AND AUTHORIZED SCHOOL PERSONNEL TO NOTIFY THE FIRE DEPARTMENT AND INITIATE EVACUATION OF STUDENTS AND FACULTY AS PER THE SCHOOL'S EVACUATION PLAN.
- UPON TROUBLE CONDITION, AUTO DIALER TO NOTIFY THE SUPERVISING STATION, AND AUTHORIZED SCHOOL PERSONNEL TO NOTIFY AUTHORIZED TECHNICIAN TO CORRECT THE TROUBLE CONDITION.
- UPON CO DETECTION, IT SHALL ANNUNCIATE AN ALARM AT THE FACP AND REMOTE ANNUNCIATOR ONLY AND SHALL ACTIVATE THE CO DETECTOR SOUNDER BASE WITH TEMPORAL 4 FORM IN THE CLASSROOM. SCHOOL PERSONNEL TO NOTIFY THE OCCUPANTS IMMEDIATELY AND INITIATE EVACUATION OF STUDENTS & FACULTY.

FIRE ALARM EQUIPMENT LIST

SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NUMBER	CSFM LISTING NUMBER	STANDBY CURRENT	ALARM CURRENT
[FACP]	(E) FIRE ALARM CONTROL PANEL	NOTIFIER NFS-640	7165-0028-0243	791mA	1.960A
[FACP]	(E) FIRE ALARM CONTROL PANEL	NOTIFIER NFW-100	7165-0028-0235	180mA	350mA
[FAEP]	FIRE ALARM EXPANDER PANEL (ADDRESSABLE)	NOTIFIER ACP-610 W/ CAB-PS1 CABINET	7315-0028-0248	150mA	90mA
[LOC]	FIRE ALARM LOCAL OPERATOR CONSOLE	NOTIFIER NFC-LOC	6911-0028-0265	85mA	100mA
[M]	ADDRESSABLE MONITOR MODULE	NOTIFIER FMM-1	7300-0028-0219	0.38mA	5.10mA
[R]	ADDRESSABLE RELAY MODULE	NOTIFIER FRM-1	7300-0028-0219	0.35mA	6.50mA
[S]	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	NOTIFIER FSP-951	7272-0028-0503	0.20mA	4.5mA
[D]	ADDRESSABLE DETECTOR BASE	SYSTEM SENSOR B300-6	7300-1653-0109	-	-
[M ^N]	ADDRESSABLE MONITOR MODULE	NOTIFIER NMM-100	7300-0028-0230	0.38mA	5.10mA
[R ^N]	ADDRESSABLE RELAY MODULE	NOTIFIER NC-100R	7300-0028-0230	0.35mA	6.50mA
[D]	ADDRESSABLE DETECTOR BASE	SYSTEM SENSOR B210LP	7300-1653-0109	-	-

NOTE:

DETECTOR SUBSCRIPTS:

"V" - DETECTOR IN ACCESSIBLE CEILING SPACE

"N" - DETECTOR WITHIN 30" OF PEAK

FIRE ALARM WIRING LEGEND

TAG	DESCRIPTION	CABLING
A	INITIATION CIRCUIT	(2) #16 TWISTED/UNSHIELDED
B	STROBE NOTIFICATION CIRCUIT(S)	(2) #12 THHN/THWN
C	SPEAKER NOTIFICATION CIRCUIT(S)	(2) #16 TWISTED/SHEILED
D	TERMINAL CONTACT WIRING	(2) #12 THWN
E	CONTROL (NON RESETABLE POWER)	(2) #14 THHN/THWN
F	24VDC NON-RESETABLE POWER	(2) #16 THHN/THWN
G	LOC DATA/AUDIO WIRING	(2) #16 AWG

NOTE: CONTRACTOR SHALL VERIFY EXACT CABLE/WIRE TYPES WITH SYSTEM MANUFACTURER PRIOR TO ROUGH-IN. INSTALL WIRING IN WIREMOLD RACKWAYS (IN FINISH AREAS, I.E. CLASSROOMS, OFFICES, HALLWAYS, ETC.) AND IN 3/4" CONDUIT MIN. (IN UTILITY ROOMS).

FIRE ALARM SYSTEM DESCRIPTION

- THE FIRE ALARM SYSTEM SHALL BE AN AUTOMATIC ADDRESSABLE SYSTEM WITH STYLE 4, CLASS B WIRING FOR IDC'S, NAC'S, AND SLC'S WITH EMERGENCY VOICE / ALARM COMMUNICATIONS.
- PROVIDE COMPLETE CROSS TRIP CONNECTIONS, PROGRAMMING, AND ALL NECESSARY DEVICES FOR COMPLETE SYSTEMS INTEGRATION WITH THE EXISTING FACP.
- CIRCUIT PATHWAY SURVIVABILITY SHALL BE LEVEL 1.
- PROVIDE AND INSTALL NEW EQUIPMENT, DEVICES AND REQUIRED MODULES AND PROVIDE CONNECTIONS COMPLETE FOR A FULLY FUNCTIONING NETWORKED FIRE ALARM SYSTEM.
- THE NAME OF THE SPECIFIC PERSON RESPONSIBLE FOR THE SYSTEM DESIGN IS ALVIN CHU (O'MAHONY & MYER).
- SYSTEM INSTALLATION SHALL BE BY A LICENSED ELECTRICAL OR FIRE ALARM CONTRACTOR WITH A CALIFORNIA C-10 LICENSE, REGULARLY ENGAGED IN THE INSTALLATION AND COMMISSIONING OF FIRE ALARM SYSTEMS TO NFPA 72 STANDARDS. FIRE ALARM CONTRACTOR SHALL BE FACTORY-AUTHORIZED BY THE SPECIFIED SYSTEM MANUFACTURER. INSTALLING CONTRACTOR'S NAME AND CONTACT INFORMATION SHALL BE LISTED IN THE NFPA CLOSE OUT DOCUMENTATION AT COMPLETION OF PROJECT.

FIRE ALARM SCOPE OF WORK

- TERMINATE EACH NOTIFICATION LOOP TO THE FAEP AS SHOWN ON PLANS AND RISER DIAGRAMS.
- TERMINATE EACH INITIATION LOOP AT THE MAIN FIRE ALARM CONTROL PANEL AS SHOWN.
- PROVIDE AN EXPANDER PANEL, LOCAL OPERATOR CONSOLE, OUTLETS, DEVICES AND WIRING FOR THE FACILITY AS SHOWN.
- DISCONNECT AND REMOVE (E) NOTIFIER SFP-2404 PANEL & REPLACE WITH FAEP-R.
- FINAL SYSTEM PROGRAMMING SHALL BE DONE BASED ON ACTUAL PHYSICAL ROOM NAMES AND NUMBERS USED AT THE SITE (IF DIFFERENT FROM THE ROOM NAMES OR NUMBERS SHOWN ON THE APPROVED PLANS).

IDENTIFICATION STAMP
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APP: 01-119358 INC:
REVIEWED FOR
SS FLS ACS
DATE: 06/09/2021

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ALCLC-NEA

PERIMETER FENCING & MODERNIZATION

1900 THIRD STREET
ALAMEDA, CA 94501

ALAMEDA UNIFIED SCHOOL DISTRICT

REVISIONS

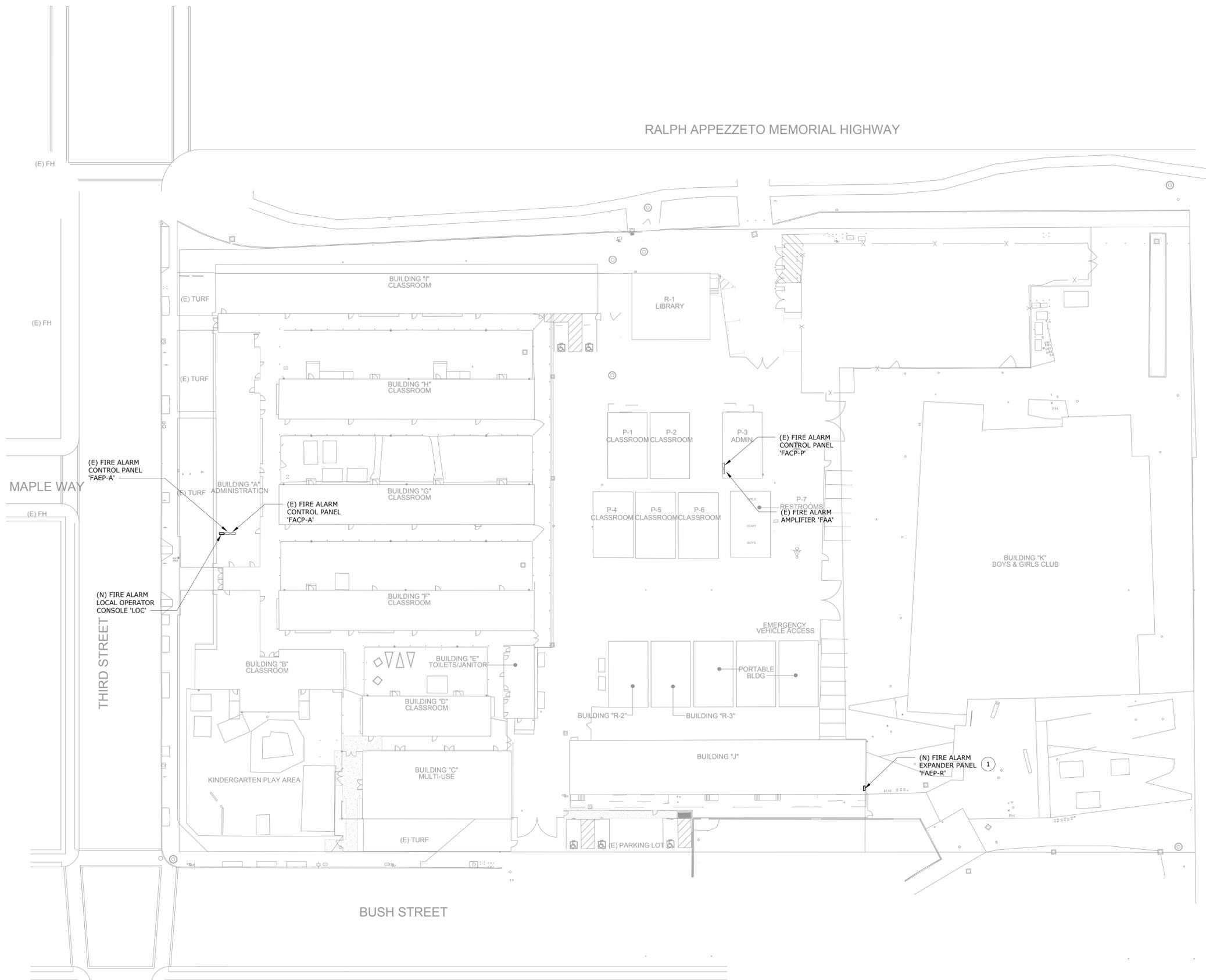
NO.	DESCRIPTION

DSA APP NO. 01-119358
ARCH PROJECT NO. 1580.03
DRAWN BY: TV/LN/JW/00M
DRAWING SCALE: AS NOTED
PTN: 61119-120 FILE NO: 1-1
CD
MAY 24, 2021
SHEET TITLE

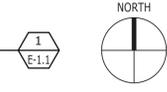
FIRE ALARM EQUIPMENT LIST, NOTES & DIAGRAMS

SHEET NUMBER
FE-0.1

RALPH APPEZZETO MEMORIAL HIGHWAY



SITE PLAN - FIRE ALARM
SCALE: 1" = 30'-0"



NUMBERED SHEET NOTES

1 TO REPLACE (E) NOTIFIER SFP-2404 PANEL. CONNECT TO (E) DEDICATED CIRCUIT.

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SHEET TITLE

SITE PLAN - FIRE ALARM

SHEET NUMBER

FE-1.1

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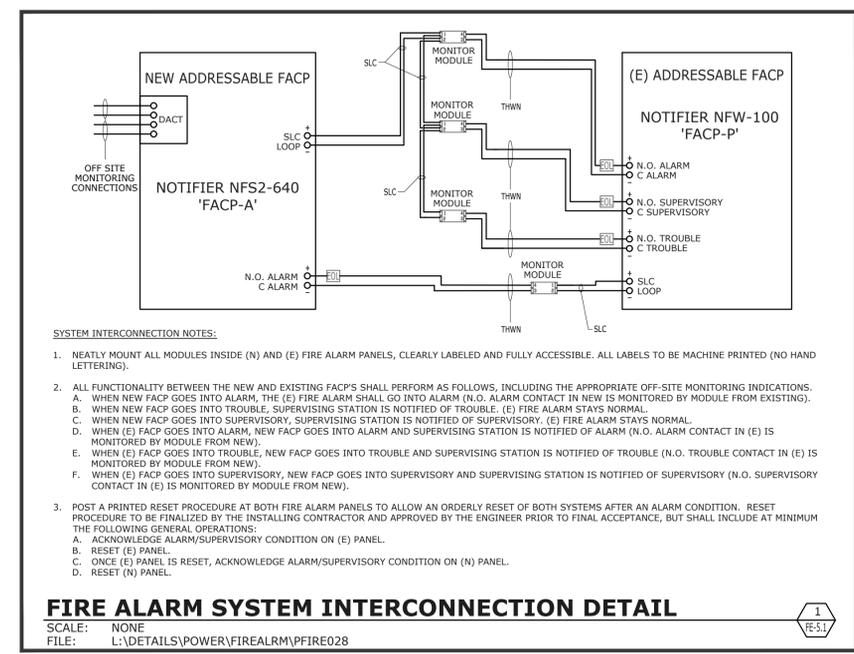
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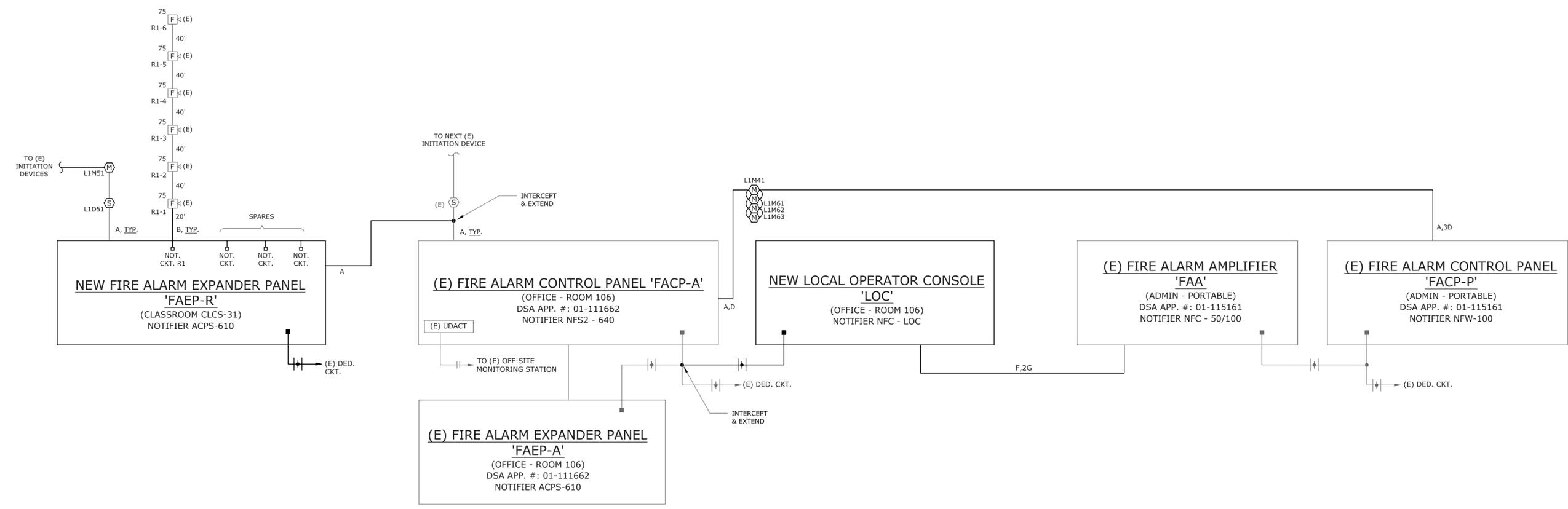
RISER DIAGRAM - FIRE ALARM

SHEET NUMBER

FE-5.1



- SYSTEM INTERCONNECTION NOTES:
- NEATLY MOUNT ALL MODULES INSIDE (N) AND (E) FIRE ALARM PANELS, CLEARLY LABELED AND FULLY ACCESSIBLE. ALL LABELS TO BE MACHINE PRINTED (NO HAND LETTERING).
 - ALL FUNCTIONALITY BETWEEN THE NEW AND EXISTING FACP'S SHALL PERFORM AS FOLLOWS, INCLUDING THE APPROPRIATE OFF-SITE MONITORING INDICATIONS.
 - WHEN NEW FACP GOES INTO ALARM, THE (E) FIRE ALARM SHALL GO INTO ALARM (N.O. ALARM CONTACT IN NEW IS MONITORED BY MODULE FROM EXISTING).
 - WHEN NEW FACP GOES INTO TROUBLE, SUPERVISING STATION IS NOTIFIED OF TROUBLE. (E) FIRE ALARM STAYS NORMAL.
 - WHEN NEW FACP GOES INTO SUPERVISORY, SUPERVISING STATION IS NOTIFIED OF SUPERVISORY. (E) FIRE ALARM STAYS NORMAL.
 - WHEN (E) FACP GOES INTO ALARM, NEW FACP GOES INTO ALARM AND SUPERVISING STATION IS NOTIFIED OF ALARM (N.O. ALARM CONTACT IN (E) IS MONITORED BY MODULE FROM NEW).
 - WHEN (E) FACP GOES INTO TROUBLE, NEW FACP GOES INTO TROUBLE AND SUPERVISING STATION IS NOTIFIED OF TROUBLE (N.O. TROUBLE CONTACT IN (E) IS MONITORED BY MODULE FROM NEW).
 - WHEN (E) FACP GOES INTO SUPERVISORY, NEW FACP GOES INTO SUPERVISORY AND SUPERVISING STATION IS NOTIFIED OF SUPERVISORY (N.O. SUPERVISORY CONTACT IN (E) IS MONITORED BY MODULE FROM NEW).
 - POST A PRINTED RESET PROCEDURE AT BOTH FIRE ALARM PANELS TO ALLOW AN ORDERLY RESET OF BOTH SYSTEMS AFTER AN ALARM CONDITION. RESET PROCEDURE TO BE FINALIZED BY THE INSTALLING CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO FINAL ACCEPTANCE, BUT SHALL INCLUDE AT MINIMUM THE FOLLOWING GENERAL OPERATIONS:
 - ACKNOWLEDGE ALARM/SUPERVISORY CONDITION ON (E) PANEL.
 - RESET (E) PANEL.
 - ONCE (E) PANEL IS RESET, ACKNOWLEDGE ALARM/SUPERVISORY CONDITION ON (N) PANEL.
 - RESET (N) PANEL.



RISER DIAGRAM - FIRE ALARM
 SCALE: NONE

1
 FE-5.1

BATTERY CALCULATIONS: FIRE ALARM EXPANDER PANEL 'FAEP-R'

STANDBY MODE		EA (A)	QTY	CURRENT
FAEP CTRL UNIT		0.150	1	0.150
TOTAL STANDBY CURRENT =				0.150 A
REQUIRED (24 HOURS) =				3.600 AH
ALARM MODE		EA (A)	QTY	CURRENT
FAEP CTRL UNIT		0.900	1	0.900
NOTIFICATION CKT	R1	0.815	1	0.815
TOTAL ALARM CURRENT =				1.715 A
REQUIRED (15 MIN) =				0.429 AH
TOTAL POWER REQUIRED WITH 120%				
BATTERY DERATING FACTOR =				4.835 AH

PROVIDE TWO 12V, 7AH BATTERIES

BATTERY CALCULATIONS: (E) FIRE ALARM CONTROL PANEL 'FACP-A'

STANDBY MODE		EA (A)	QTY	CURRENT
(E) LOADS		0.7910	1	0.7910
DETECTORS		0.0002	1	0.0002
MODULES		0.0004	4	0.0015
TOTAL STANDBY CURRENT =				0.793 A
REQUIRED (24 HOURS) =				19.025 AH
ALARM MODE		EA (A)	QTY	CURRENT
(E) LOADS		1.9690	1	1.969
DETECTORS		0.0040	1	0.004
MODULES		0.0070	4	0.028
TOTAL ALARM CURRENT =				2.001 A
REQUIRED (15 MIN) =				0.500 AH
TOTAL POWER REQUIRED WITH 120%				
BATTERY DERATING FACTOR =				23.431 AH

EXISTING (2) 12V, 30AH BATTERIES - OK

(EXISTING LOAD INFO ARE FROM DSA APP. #01-111662)

VOLTAGE DROP CALCULATIONS

FIRE ALARM EXPANDER PANEL 'FAEP-R'

SIGNAL CIRCUIT:	R1						
TOTAL CKT CURRENT =	0.815 A						
MAX VOLT-DROP =	1.86%						
SYSTEM VOLTAGE =	20.4 V						
Device Address-->	R1-1	R1-2	R1-3	R1-4	R1-5	R1-6	
Type of Device -->	75HSTR	75HSTR	75HSTR	75HSTR	75HSTR	75HSTR	ool
Current of Device (Amp) -->	0.135	0.135	0.135	0.135	0.135	0.135	0.005
Size of Wire (AWG) -->	#12	#12	#12	#12	#12	#12	#12
Distance to each Device (Ft) -->	20	40	40	40	40	40	5
Current Total (Amp) -->	0.815	0.680	0.545	0.410	0.275	0.140	0.005
Device Volt-drop -->	0.31%	0.82%	1.24%	1.55%	1.75%	1.86%	1.86%
Device Volt -->	20.34	20.23	20.15	20.08	20.04	20.02	20.02

BATTERY CALCULATIONS: (E) FIRE ALARM CONTROL PANEL 'FACP-P'

STANDBY MODE		EA (A)	QTY	CURRENT
(E) LOADS		0.274	1	0.274
MODULES		0.0004	1	0.000
TOTAL STANDBY CURRENT =				0.274 A
REQUIRED (24 HOURS) =				6.585 AH
ALARM MODE		EA (A)	QTY	CURRENT
(E) LOADS		1.738	1	1.738
MODULES		0.006	1	0.006
TOTAL ALARM CURRENT =				1.744 A
REQUIRED (15 MIN) =				0.436 AH
TOTAL POWER REQUIRED WITH 120%				
BATTERY DERATING FACTOR =				8.425 AH

EXISTING (2) 12V, 18AH BATTERIES-OK

(EXISTING LOAD INFO ARE FROM DSA APP. #01-115161)

BATTERY CALCULATIONS: (E) FIRE ALARM AMPLIFIER 'FAA'

STANDBY MODE		EA (A)	QTY	CURRENT
(E) LOADS		0.372	1	0.372
LOC POWER		0.085	1	0.085
TOTAL STANDBY CURRENT =				0.457 A
REQUIRED (24 HOURS) =				10.968 AH
ALARM MODE		EA (A)	QTY	CURRENT
(E) LOADS		0.681	1	0.681
LOC POWER		0.100	1	0.100
TOTAL ALARM CURRENT =				0.781 A
REQUIRED (15 MIN) =				0.195 AH
TOTAL POWER REQUIRED WITH 120%				
BATTERY DERATING FACTOR =				13.396 AH

EXISTING (2) 12V, 18AH BATTERIES-OK

(EXISTING LOAD INFO ARE FROM DSA APP. #01-115161)

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REVISIONS

NO.	DESCRIPTION

DSA APP NO. 01-119358
ARCH PROJECT NO. 1580.03
DRAWN BY: TV/LN/JW/OOM
DRAWING SCALE: AS NOTED
PTN: 61119-120 FILE NO: 1-1

CD
MAY 24, 2021
SHEET TITLE

**CALCULATIONS-
FIRE ALARM**

SHEET NUMBER
FE-6.1