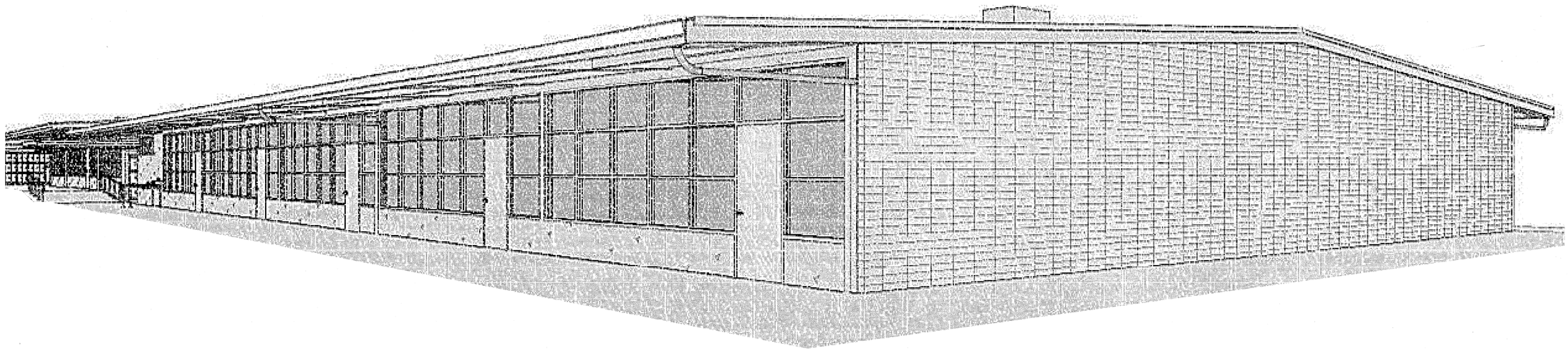
Parkway Heights Middle School
Modernization Phase 2

650 Sunset Ave, South San Francisco, CA 94080

South San Francisco Unified School District

DSA FILE NO: 41-28 **DSA APPLICATION NO:** 01-116522 **PTN:** 69070-97



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LICENSED ARCHITECT
JAMES M. THEIS
LICENSE # C22643
EXP JUNE 30, 2019
STATE OF CALIFORNIA

SIGNED: 11/09/17

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street South San Francisco CA 94080-4423

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO. 01-116522
AC. FI SS
DATE NOV 09 2017

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE:
PTN: 69070-97

DSA BACKCHECK
11/09/17

SHEET TITLE

COVER SHEET

SHEET NUMBER

G-0.1

P:\1277.04 - Parkway Heights MS Modern -Ph 2, SSFUSD\Drawings\04-CD\1277.04 Parkway Heights MS Classroom Bldg H1.pln:11/7/2017 2:57 PM

ABBREVIATIONS

&	AND	GA	GAUGE	S	SOUTH
L	ANGLE	GALV	GALVANIZED	S.A.D.	SEE ARCHITECTURAL DRAWINGS
@	AT	GB	GRAB BAR	S.AV.D.	SEE AUDIOVIDEO DRAWINGS
℄	CENTERLINE	GC	GENERAL CONTRACTOR	SC	SOLID CORE
'	FEET	GI	GALVANIZED IRON	S.C.D.	SEE CIVIL DRAWINGS
"	INCHES	GL	GLASS/ GLAZING	SCHED	SCHEDULE
d	PENNY	GLB	GLUE LAMINATED BEAM	SD	STORM DRAIN
#	POUND/ NUMBER	GND	GROUND	SECT	SECTION
		GR	GRADE	S.E.D.	SEE ELECTRICAL DRAWINGS
AB	ANCHOR BOLT	GYP BD	GYPSUM BOARD	SEP	SEPARATION
ABBREV	ABBREVIATION			SHR	SHOWER
AC	ASPHALT CONCRETE	HB	HOSE BIBB	SHTG	SHEATHING
A/C	AIR CONDITIONING	HC	HOLLOW CORE	SIM	SIMILAR
ACC	ACCESSIBLE	HDR	HEADER	SL	SLIDING
ACOUS	ACOUSTICAL	HDWD	HARDWOOD	S.L.D.	SEE LANDSCAPE DRAWINGS
AC T	ACOUSTICAL TILE	HDWR	HARDWARE	SM	SHEET METAL
AD	AREA DRAIN	HM	HOLLOW METAL	S.M.D.	SEE MECHANICAL DRAWING
ADJ	ADJUSTABLE	HOR	HORIZONTAL	SOV	SHUT OFF VALVE
A.F.F.	ABOVE FINISH FLOOR	HP	HIGH POINT	S.P.D.	SEE PLUMBING DRAWINGS
AGG	AGGREGATE	HR	HOUR	SPEC	SPECIFICATION
ALUM	ALUMINUM	HSS	HOLLOW STEEL SECTION	SPKR	SPEAKER
ANOD	ANODIZED	HT	HEIGHT	SQ	SQUARE
APPROX	APPROXIMATE	HTG	HEATING	SS	STAINLESS STEEL
ARCH	ARCHITECTURAL	HVAC	HEATING, VENTILATING, AIR-CONDITIONING	S.S.D.	SEE STRUCTURAL DRAWINGS
ASPH	ASPHALT			S.TH.D.	SEE THEATER DRAWINGS
				STA	STATION
BD	BOARD	ID	INSIDE DIAMETER	STD	STANDARD
BITUM	BITUMINOUS	INSUL	INSULATION	STL	STEEL
BLDG	BUILDING	INT	INTERIOR	STOR	STORAGE
BLK	BLOCK	INTEG	INTEGRAL	STRUCT	STRUCTURAL
BLKG	BLOCKING	INTERMED	INTERMEDIATE	SUSP	SUSPENDED
BM	BEAM	INV	INVERT	SYM	SYMMETRICAL
BOT	BOTTOM				
BO	BY OWNER	JH	JOIST HANGER	T	TREAD
BRK	BREAK	JST	JOIST	T&B	TOP & BOTTOM
BRG	BEARING	JT	JOINT	TC	TOP OF CURB
BTWN	BETWEEN			TEL	TELEPHONE
BU	BUILT-UP	KIT	KITCHEN	TER	TERRAZZO
BUR	BUILT-UP ROOFING	KP	KICK PLATE	T&G	TONGUE & GROOVE
				TH	THICK
CAB	CABINET	LAB	LABORATORY	THRU	THROUGH
CB	CATCH BASIN	LAM	LAMINATE	TJ	TOOL JOINT
CBU	CEMENTITIOUS BACKER UNIT	LAV	LAVATORY	TN	TOE NAIL
CEM	CEMENT	LL	LIVE LOAD	T.O.D.	TOP OF DECK
CER	CERAMIC	LP	LOW POINT	T.O.P.	TOP OF PLATE
CI	CAST IRON	LT	LIGHT	T.O.R.	TOP OF ROOF
CIR	CIRCLE			T.O.W.	TOP OF WALL
CJ	CONTROL JOINT	MAT	MATERIAL	T.P.	TOP OF PAVEMENT
CORR	CORRIDOR	MAX	MAXIMUM	TRN	TRANSOM
CL	CLOSET/ CENTER LINE	MB	MACHINE BOLT	TRANS	TRANSPARENT
CLG	CEILING	MC	MEDICINE CABINET	TS	TUBE STEEL
CLR	CLEAR	MECH	MECHANICAL	TUB	TUBULAR
CLS	CLOSURE	MED	MEDIUM	TV	TELEVISION
CMU	CONCRETE MASONRY UNIT	MEMB	MEMBRANE	TW	TACKWALL
CO	CLEANOUT	MFR	MANUFACTURER	TYP	TYPICAL
COL	COLUMN	MH	MANHOLE		
COMB	COMBINATION	MIN	MINIMUM	UNF	UNFINISHED
COMP	COMPOSITION	MIR	MIRROR	U.O.N.	UNLESS OTHERWISE NOTED
CONC	CONCRETE	MISC	MISCELLANEOUS	UR	URINAL
CONN	CONNECTION	MO	MASONRY OPENING	UTIL	UTILITY
CONST	CONSTRUCTION	MOD	MODULAR		
CONT	CONTINUOUS	MR	MOISTURE RESISTANT	VB	VAPOR BARRIER
CONTR	CONTRACTOR	MTD	MOUNTED	VCT	VINYL COMPOSITION TILE
CT	CERAMIC TILE	MTL	METAL	VERT	VERTICAL
CTR	CENTER	MUL	MULLION	VEST	VESTIBULE
CTSK	COUNTERSINK			V.I.F.	VERIFY IN FIELD
CUST	CUSTODIAN	N	NORTH	VTR	VENT THROUGH ROOF
CW	COLD WATER	(N)	NEW	VWC	VINYL WALL COVERING
		NAT	NATURAL		
DBL	DOUBLE	N.I.C.	NOT IN CONTRACT	W	WEST
DEPT	DEPARTMENT	NO	NUMBER	W/	WITH
DET	DETAIL	NOM	NOMINAL	WC	WATER CLOSET
DF	DRINKING FOUNTAIN	N.T.S.	NOT TO SCALE	WD	WOOD
DG	DECOMPOSED GRANITE			WDW	WINDOW
		O/	OVER	WH	WATER HEATER
DI	DRAIN INLET	OA	OVERALL	WO	WITHOUT
DIA	DIAMETER	OBS	OBSCURE	WP	WATER PROOF
DIAG	DIAGONAL	OC	ON CENTER	W.P.	WORK POINT
DIM	DIMENSION	OD	OUTSIDE DIAMETER	WR	WATER RESISTANT
DISP	DISPOSAL	OF	OVERFLOW	WSCT	WAINSCOT
DIV	DIVISION	OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED	WT	WEIGHT
DN	DOWN				
DO	DOOR OPENING	O.L.F.	OCCUPANT LOAD FACTOR	YD	YARD
DIR	DIRECTLY	OFF	OFFICE		
DR	DOOR	OPNG	OPENING		
DS	DOWN SPOUT	OPP	OPPOSITE		
DSP	DRY STAND PIPE	OVHD	OVERHEAD		
DT	DRAIN TILE				
DW	DISHWASHER	PC	PORTLAND CEMENT		
DWG	DRAWING	P.C.F.	POUNDS PER CUBIC FOOT		
DWR	DRAWER	POA	POWER DRIVEN ANCHOR		
		PERF	PERFORATED		
E	EAST	PH	PLATE HEIGHT		
(E)	EXISTING	PL	PLATE		
EA	EACH	P/L	PROPERTY LINE		
EB	EXPANSION BOLT	PLAM	PLASTIC LAMINATE		
EE	EACH END	PLAS	PLASTER/ PLASTIC		
EF	EXHAUST FAN	PLF	POUNDS PER LINEAL FOOT		
EJ	EXPANSION JOINT	PLYWD	PLYWOOD		
EL	ELEVATION GRADE	P.O.C.	POINT OF CONTACT		
ELEC	ELECTRICAL	PR	PAIR		
ELEV	ELEVATION	PROP	PROPERTY		
EMER	EMERGENCY	PSF	POUNDS PER SQUARE FOOT		
EMT	ELECTRIC METALLIC TUBING	PSI	POUNDS PER SQUARE INCH		
ENCL	ENCLOSURE	PT	POINT		
EP	ELECTRIC PANEL	PTDF	PRESSURE TREATED DOUGLAS FIR		
EQ	EQUAL	PTN	PARTITION		
EQUIP	EQUIPMENT	PTR	PAPER TOWEL RECEPTACLE		
EQUIV	EQUIVALENT	PVC	POLYVINYL CHLORIDE		
ES	EACH SIDE	PVMT	PAVEMENT		
EW	EACH WAY				
EXH	EXHAUST	R	RISER		
EXIST	EXISTING	R / RAD	RADIUS		
EXP	EXPANSION	RD	ROOF DRAIN		
EXT	EXTERIOR	REF	REFERENCE		
		REFR	REFRIGERATOR		
F	FACE	REG	REGULAR		
FA	FIRE ALARM	REQD	REQUIRED		
FCO	FLOOR CLEAN OUT	REINF	REINFORCED		
FD	FLOOR DRAIN	RH	ROOF HATCH		
FDN	FOUNDATION	RHMS	ROUND HEAD MACHINE SCREW		
FE	FIRE EXTINGUISHER	RHWS	ROUND HEAD WOOD SCREW		
FEC	FIRE EXTINGUISHER CABINET	RM	ROOM		
FF	FINISH FLOOR	RO	ROUGH OPENING		
FG	FINISH GRADE	RWL	RAIN WATER LEADER		
FGL	FIBERGLAS	RWD	REDWOOD		
FH	FIRE HYDRANT				
FHMS	FLAT HEAD MACHINE SCREW				
FHS	FIRE HOSE STATION				
FHWS	FLAT HEAD WOOD SCREW				
FIN	FINISH				
FIXT	FIXTURE				
FL	FLOOR LINE				
FLASH	FLASHING				
FLUOR	FLUORESCENT				
FLR	FLOOR				
FM / FOM	FACE OF MASONRY				
FN	FACE NAIL				
FOC	FACE OF CONCRETE				
FOF	FACE OF FINISH				
FOS	FACE OF STUD				
FRMG	FRAMING				
FR	FIRE-RESISTANT				
FRP	FIBERGLASS REINFORCED PANEL				
FT	FEET				
FTG	FOOTING				
FURR	FURRING				

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 SPECFICALLY NOTED.

AA / A1 — COLUMN GRIDS A AND 1 IN BUILDING A

6'-0" — DIMENSION TO FACE OF STUD OR MASONRY

6'-0" — DIMENSION TO FACE OF FINISH

6'-0" — DIMENSION TO CENTER LINE OR COLUMN LINE

12'-0" — RELATIVE ELEVATION DIMENSION

B101 — DOOR A IN ROOM NUMBER 101 IN BUILDING B ACCESSIBLE CLEARANCES SHOWN DASHED

009 — WINDOW NUMBER 009

11 / A-9.12 — DETAIL NUMBER 11 ON SHEET NUMBER A-9.12

3 / A-B6.2 — SECTION NUMBER 3 ON SHEET NUMBER A-B6.2

2 / A-B5.3 — ELEVATION NUMBER 2 ON SHEET NUMBER A-B5.3

FLOOR PLAN

CLASSROOM	ROOM NAME
A204	ROOM NUMBER 204 IN BUILDING A
F-4	FLOOR FINISH CODE F-4
A-A7.6	INTERIOR ELEVATION SHOWN ON SHEET A-A7.6

REFLECTED CLG PLAN

CLASSROOM	ROOM NAME
A204	ROOM NUMBER 204 IN BUILDING A
CL-6	CEILING FINISH CODE CL-6
10'-0"	FINISH CEILING HEIGHT 10'-0"

33 — KEYNOTE NUMBER 33

8" — METAL WALL FRAMING SIZE 8"

50 — WALL ACOUSTIC RATING OF STC 50

C — TOILET ACCESSORY C

222 — ARCHITECTURAL WOODWORK STANDARDS (AWS) CABINET DESIGN SERIES IDENTIFIER

W-2 — FINISH CODE, WALL FINISH 2 SHOWN

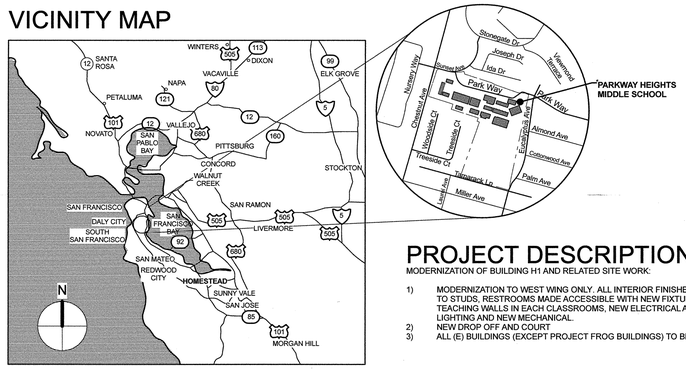
B1 — ROOM / BUILDING ACCESSIBLE SIGNAGE TYPE B1. SEE FLOOR PLAN AND ACCESSIBLE SIGNAGE DETAIL 22/A-9.1

GENERAL NOTES

1. ALL WORK IS SHOWN, DESCRIBED OR SPECIFIED IN THE DRAWINGS INDEXED ON THIS PAGE OR IN THE SPECIFICATIONS.
   ALL WORK NOT INDICATED AS EXISTING (E) IS NEW.
2. ALL FRAMING DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. DO NOT SCALE DRAWINGS.
4. VERIFY ALL DIMENSIONS WHERE WORK INVOLVES FRAMING FOR WINDOWS, DOORS, OR CABINETS.
5. ONLY WORK SO NOTED IS NOT IN CONTRACT (N.I.C.) ALL N.I.C. ITEMS ARE NOT PART OF DSA APPROVAL
6. GOVERNING CODES:
   CALIFORNIA CODE OF REGULATIONS TITLE 24 BUILDING STANDARDS CODE:
   - PART 1 2016 CALIFORNIA ADMINISTRATIVE CODE
   - PART 2 2016 CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2
   - PART 3 2016 CALIFORNIA ELECTRICAL CODE
   - PART 4 2016 CALIFORNIA MECHANICAL CODE
   - PART 5 2016 CALIFORNIA PLUMBING CODE
   - PART 6 2016 CALIFORNIA ENERGY CODE
   - PART 9 2016 CALIFORNIA FIRE CODE
   - PART 11 2016 CALIFORNIA GREEN BUILDING STANDARDS (CAL-GREEN)
   - PART 12 2016 CALIFORNIA REFERENCED STANDARDS CODE

   CALIFORNIA CODE OF REGULATIONS TITLE 19 PUBLIC SAFETY CODE
   2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN
7. STANDARD AND GUIDES:
   NFPA 13 2016 - INSTALLATION OF FIRE SPRINKLER SYSTEMS (CA AMENDED)
   NFPA 14 2013 - INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS (CA AMENDED)
   NFPA 17 2013 - DRY CHEMICAL EXTINGUISHING SYSTEMS
   NFPA 17A 2013 - WET CHEMICAL FIRE EXTINGUISHING SYSTEMS
   NFPA 20 2016 - INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
   NFPA 24 2016 - INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES(CA AMENDED)
   NFPA 25 2013 - CALIFORNIA EDITION - TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
   NFPA 72 2016 - NATIONAL FIRE ALARM CODE (CA AMENDED)
   NFPA 110 2016 - EMERGENCY AND STANDBY POWER SYSTEMS
   NFPA 170 2015 - STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS
   NFPA 2001, 2015 Edition - CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)
   ICC 300 2016 BLEACHERS FOLDING AND TELESCOPING SEATING AND GRANDSTANDS ACC/ANSI 300-2002
8. A COPY OF TITLE 24 . ALL APPLICABLE PARTS REFERRED BY THE PLANS AND SPECIFIATIONS SHALL BE KEPT ON THE JOB AT ALL TIMES.
9. IN ACCORDANCE WITH TITLE 24 PART 1 CHAPTER 4: THE ADMINISTRATIVE REGULATIONS FOR THE DIVISION OF THE STATE ARCHITECT STRUCTURAL SAFETY (DSA/SS).
   - ALL CONSTRUCTION CHANGE DOCUMENTS AND ADDENDA SHALL BE SIGNED BY THE ARCHITECT AND THE OWNER AND APPROVED BY DSA.CONSTRUCTION CHANGE DOCUMENTS NOT VALID UNTIL APPROVED BY DSA (4-338).
   - ALL TESTS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 4-335 AND APPROVED T & I SHEET (DSA-103).
   - 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.
   - DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE IN ACCORDANCE WITH SECTION 4-331
   - INSPECTOR SHALL BE APPROVED BY DSA. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342.
   - SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334.
   - VERIFIED REPORTS SHALL BE SUBMITTED BY CONTRACTORS, INSPECTORS (DSA - 6), ARCHITECTS AND ENGINEERS (DSA 6AE) IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343.
   - THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341.
   - THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343.
10. FOOD HANDLING FACILITIES SHALL COMPLY WITH ALL LOCAL HEALTH REQUIREMENTS AND CALIFORNIA UNIFORM RETAIL FOOD FACILITIES LAW.
11. 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 IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN 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 4-317(c))
12. COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION SHALL BE ENFORCED.

VICINITY MAP



PROJECT DESCRIPTION

MODERNIZATION OF BUILDING H1 AND RELATED SITE WORK:

1) MODERNIZATION TO WEST WING ONLY. ALL INTERIOR FINISHES STRIPPED TO STUDS, RESTROOMS MADE ACCESSIBLE WITH NEW FIXTURES, NEW TEACHING WALLS IN EACH CLASSROOMS, NEW ELECTRICAL AND LIGHTING AND NEW MECHANICAL.
2) NEW DROP OFF AND COURT
3) ALL (E) BUILDINGS (EXCEPT PROJECT FROG BUILDINGS) TO BE PAINTED

SHEET INDEX

GENERAL

G-0.1	COVER SHEET
G-0.2	ABBREVIATIONS, SHT INDEX AND GENERAL NOTES
G-0.3	CAMPUS SITE PLAN

CIVIL

C0	ABBREVIATIONS, LEGEND & NOTES
C1	DEMOLITION PLAN
C2	GRADING PLAN
C3	GRADING PLAN
C4	UTILITY PLAN
C5	UTILITY PLAN
C6	PAVEMENT STRUCTURAL SECTION & EROSION CONTROL PLAN
C7	LAYOUT, SIGNING & STRIPING PLAN
C8	DETAILS
C9	DETAILS
C10	DETAILS

LANDSCAPING

L01.00	MATERIAL LEGEND & PLAN
L02.00	LAYOUTLEGEND & PLAN
L03.00	IRRIGATION LEGEND & NOTES
L03.01	IRRIGATION PLAN
L03.02	IRRIGAITON BUBBLER PLAN
L04.01	IRRIGATION DETAILS
L04.02	IRRIGATION DETAILS
L04.03	IRRIGATION DETAILS
L05.00	SOIL PREP LEGEND & PLAN
L06.00	PLANTING LEGEND & PLAN
L07.01	PLANTING DETAILS
L08.01	CONSTRUCTION DETAILS
L08.02	CONSTRUCTION DETAILS
L08.03	CONSTRUCTION DETAILS
L08.04	CONSTRUCTION DETAILS
L08.05	CONSTRUCTION DETAILS
L08.06	CONSTRUCTION DETAILS

ARCHITECTURAL

SITE

A-1.1	SITE PLAN - ACCESS
A-1.2	ENLARGED PLAN AND DETAILS
A-2.0	DEMO FLOOR PLAN
A-2.1	FLOOR PLAN
A-3.0	DEMO FIEFLECTED CEILING PLAN
A-3.1	REFLECTED CEILING PLAN
A-4.1	ROOF PLAN
A-5.1	EXTERIOR ELEVATIONS
A-5.2	EXTERIOR ELEVATIONS PAINTING
A-6.1	BUILDING SECTIONS
A-7.1	INTERIOR ELEVATIONS
A-7.2	INTERIOR ELEVATIONS
A-7.3	INTERIOR ELEVATIONS
A-7.4	INTERIOR ELEVATIONS
A-8.1	DOOR AND WINDOW SCHEDULE & GENERAL NOTES
A-9.1	EXTERIOR DETAILS AND SIGNAGE
A-10.1	INTERIOR DETAILS
A-10.2	CASEWORK DETAILS

STRUCTURAL

S1.1	TYPICAL CONCRETE DETAILS
S1.2	TYPICAL WOOD DETAILS

MECHANICAL

MP-1.1	MECHANICAL PLUMBING SCHEDULES & LEGENDS
MPD-2.1	MECHANICAL PLUMBING DEMOLITION FLOOR PLANS
MPD-2.2	MP DEMO ROOF PLAN
MP-2.1	MECHANICAL PLUMBING FLOOR PLANS
MP-2.2	MECHANICAL PLUMBING ROOF PLAN
MP-3.1	MECHANICAL PLUMBING ENLARGED FLOOR PLANS
MP-5.1	MECHANICAL/PLUMBING DETAILS
M 6.1	MECHANICAL CONTROLS

ELECTRICAL

E-0.1	SYMBOLS LIST, GENERAL NOTES & LIST OF DRAWINGS
E-0.2	LUMINAIRE SCHEDULE
E-0.3	TITLE 24 DOCUMENTS
E-0.4	TITLE 24 DOCUMENTS
E-0.5	TITLE 24 DOCUMENTS
E-1.0	SITE PLAN - DEMO
E-1.1	SITE PLAN - ELECTRICAL
E-1.2	SITE PLAN - LIGHTING
E-2.1	FLOOR PLAN - LIGHTING
E-3.1	FLOOR PLAN - POWER AND DATA
E-3.2	FLOOR PLAN - CLOCK, SPEAKER & SECURITY
E-3.3	FLOOR PLAN - MECHANICAL EQUIPMENT CONNECTIONS
E-5.1	SINGLE LINE DIAGRAM
E-5.2	SINGLE LINE DIAGRAM
E-5.3	SINGLE LINE DIAGRAM
E-6.1	SCHEDULES
E-7.1	DETAILS
E-7.2	DETAILS
FE-0.1	FIRE ALARM EQUIPMENT LIST & GENERAL NOTES
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

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. 01-116522 File No. 41-28

☒ The drawings or sheets listed on the cover or index sheet (marked Civil, Landscape, Structural, Mechanical, Plumbing, Electrical and Fire Alarm)

☐ This drawing or 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:

1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and

2) 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 I. (Title 24, Part 1, Section 4-317 (b))

I find that:

☒ All drawings or sheets listed on the cover or index sheet (marked Civil, Landscape, Structural, Mechanical, Plumbing, Electrical and Fire Alarm)	
☐ This drawing or page	
☐ is/are in general conformance with the project design, and	☐ is/are in general conformance with the project design, and
☐ has/have been coordinated with the project plans and specifications	☐ has/have been coordinated with the project plans and specifications
11/9/17	
Signature Date	Signature Date
Architect or Engineer designated to be in general responsible charge	Architect or Engineer delegated responsibility for this portion of the work
Jim Theiss	
Print Name	Print Name
C22643 June 30, 2019	
License Number Expiration Date	License Number Expiration Date

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(707) 576-0295 FAX

LICENSED ARCHITECT JIM THEISS LICENSE # C22643 EXP JUNE 30, 2019 STATE OF CALIFORNIA

SIGNED: 11/09/17

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street South San Francisco CA 94080-4423

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116522
AC FLS SS
DATE NOV 09 2017

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE:
PTN: 69070-97

DSA BACKCHECK
11/09/17
SHEET TITLE

ABBREVIATIONS, SHT INDEX AND GENERAL NOTES

SHEET NUMBER

G-0.2

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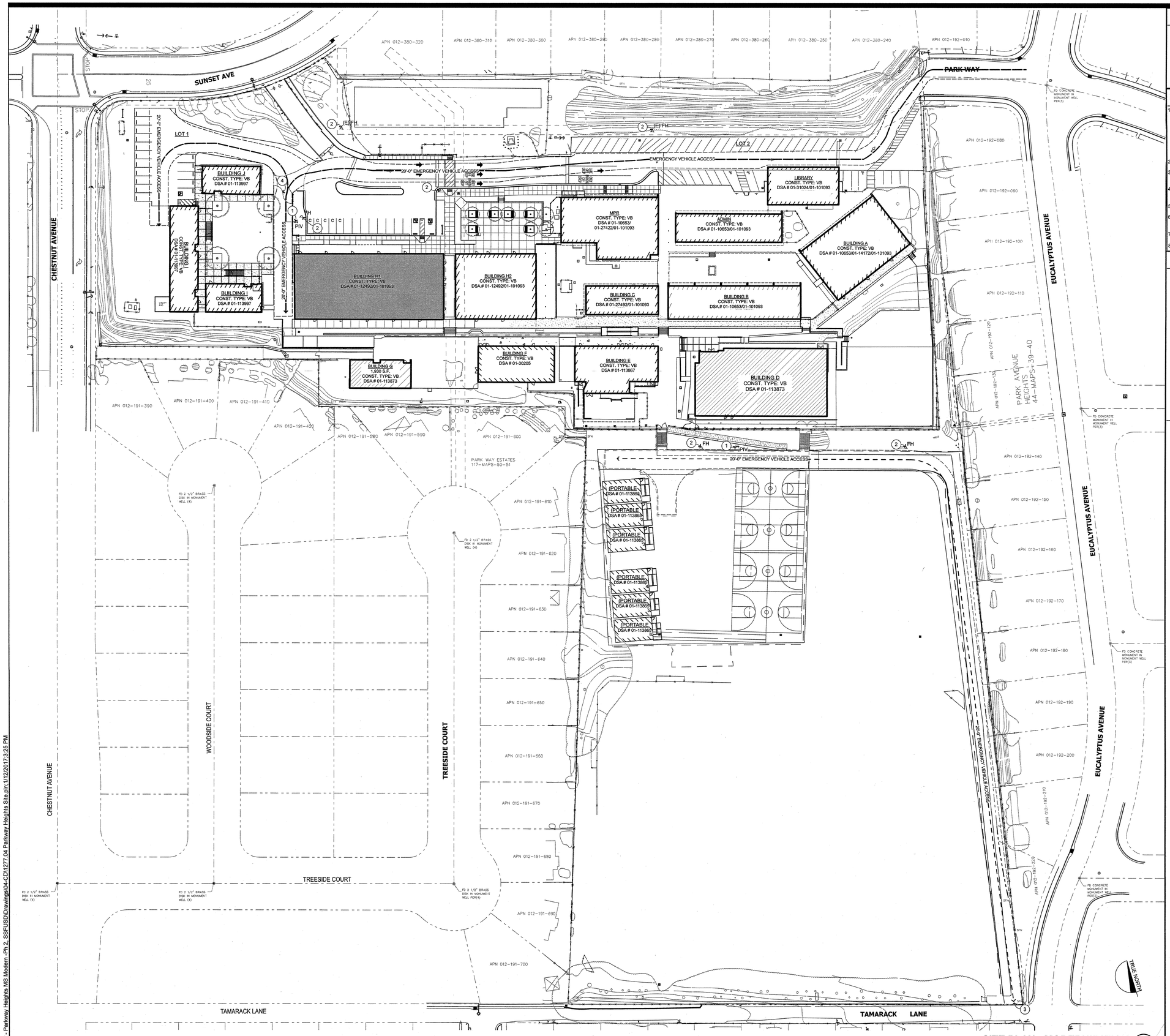

SITE PLAN - MODERNIZATION

1" = 40' (1)

FIRE DEPARTMENT SITE PLAN KEYNOTES

1. POST INDICATOR VALVES AND FIRE DEPARTMENT CONNECTIONS, S.C.D.
2. (E) FIRE HYDRANT
3. (E) FIRE DEPARTMENT ACCESS GATE
4. FIRE DEPARTMENT ACCESS GATE

FIRE DEPARTMENT SITE PLAN GENERAL NOTES

1. ALL NEW WORK SHALL BE ACCESSIBLE. ALL NEW WALKWAYS SHALL CONFORM TO CBC 1133B.7 PAVING MATERIALS NOT OTHERWISE NOTED SHALL BE CONCRETE PER DETAIL
   - CONCRETE SHALL SLOPE MIN. 1/8" PER FOOT AWAY FROM BUILDINGS, S.C.D.
   - EXTERIOR DOOR LANDINGS SHALL SLOPE 1/4" PER FOOT MAX. AWAY FROM BUILDING FOR DRAINAGE.
2. REFER TO CIVIL ENGINEERING DWGS FOR SIDEWALK GRADES.
3. REFER TO CIVIL ENGINEERING DRAWINGS AND LANDSCAPE PLANS FOR SITE FEATURES NOT OTHERWISE INDICATED.
4. PARKING AND PEDESTRIAN SITE SIGNAGE SHALL COMPLY WITH CBC SECTIONS 11B-502.6 11B-502.8 & 11B-703.7.2.1
5. BUILDING SIGNAGE SHALL COMPLY WITH CBC 11B-703
6. PEDESTRIAN GATES SHALL COMPLY WITH CBC 1008.2 & 11B-206.5
7. FOR SITE DEMOLITION WORK, S.C.D.
8. FOR ENLARGED SITE PLAN SEE SITE PLAN - ACCESS A-1.1

FIRE DEPARTMENT SITE PLAN LEGEND

- (E) CHAIN LINK FENCE AND GATES
- CHAIN LINK FENCE AND GATES
- ORNAMENTAL FENCE AND GATES
- (E) BUILDING
- (E) BUILDING: UNDER CONSTRUCTION
- MODERNIZATION
- FH — FIRE HYDRANT
- PIV — POST INDICATOR VALVE
- 20'-0" WIDE EMERGENCY VEHICLE ACCESS
- PROPERTY LINE

DSA 810: LOCAL FIRE AUTHORITY REVIEW

School District: South San Francisco Unified School District

Project Address: 650 Sunset Ave South San Francisco CA 94080

LOCAL FIRE AUTHORITY TO INITIAL THE TERMS AS APPLICABLE TO THIS PROJECT AND SIGN BELOW — DSA Application #:

KEY: **"YES"**= Complies with LFA Req'mts; **"NR"** = LFA elects not to review; **"N/A"**= Not applicable to this project; **No Check Mark** = Reviewed but not approved. Provide Comments

YES	N/A	NR		
☐	☒	☐	**Elevators**	Where an Elevator does not meet medical emergency service cab size per 2010 California Building Code (CBC), the Local Fire Authority approves the use of stairways for emergency rescue and patient transport.
☒	☐	☐	**Access Roads**	Access Roads, Fire Lane Markings, pavers and Gate Entrances are in accordance with Title 19, Calif. Code of Regulations & 2010 California Fire Code (CFC) Chapter 5. (Explain in comments sections any "NO" answer)
☒	☐	☐	**Fire Flow**	Fire Hydrant location and distribution are in accordance with ☒ 2010 CFC or ☐ NFPA 1142 (Alternate Means) When NR is checked, DSA can only review on-site water storage as an alternate means. Signature of the School District Official is required to acknowledge use of NFPA 1142 as LFA alternate means.

SCHOOL DISTRICT SIGNATURE: _____ (Sign and Print name and Title) _____ (Date)

☐	☒	☐	**Automatic Fire Sprinkler Systems** The location(s) of the proposed Post Indicator Valve (PIV) and Fire Dept. Connection (FDC) meet the requirements of this jurisdiction.
☐	☒	☐	The location(s) of the Detector Check Valve Assembly (DCVA) meet the requirements of this jurisdiction.
☐	☒	☐	The fire pump assembly/backflow preventer and other valves meet the requirements of this jurisdiction.

YES ☐ NO ☒ **Hazard Severity Zone Area?** (2010 CBC Chapter 7A) If YES, Type (check one: Moderate:__ High:__ Very High:__ WIFA:__ If YES, plans must meet requirements of Chapter 7A

COMMENTS (Print-Note Deficiencies): _____

LOCAL FIRE AUTHORITY INFORMATION :

AGENCY NAME (Print): South San Francisco Fire Department

ADDRESS (Print): 480 North Canal Street

CITY/STATE/ZIP (Print): South San Francisco

PHONE NUMBER (Print): 650-829-3950 e-mail: Luis.DaSilva@ssf.net

REVIEWED BY: Luis DaSilva (Print name) _____ (Sign) 1.25.17 (Date)

RANK/TITLE: Fire Marshal

INITIALS AND A SIGNATURE ABOVE SIGNIFY THAT THE LOCAL FIRE AUTHORITY HAS REVIEWED THE LISTED ITEMS AND WAS CONSULTED REGARDING THEIR PLACEMENT AND DESIGN. THE CURRENT CONFIGURATION SHOWN ON THIS SITE PLAN, AS OF THIS DATE, MEETS WITH THEIR CURRENT STANDARDS.
ITEMS NOT CHECKED OR MARKED NR WILL BE REVIEWED BY DSA

QUATTROCCHI KWOK ARCHITECTS
636 FIFTH ST.
SANTA ROSA, CA 95404
(707) 576-0829
(707) 576-0295 FAX

LICENSED ARCHITECT
JIM WEISS
LICENSE # C22643
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CAMPUS SITE PLAN

SHEET NUMBER

G-0.3

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ABBREVIATIONS

AB	AGGREGATE BASE	MFR	MANUFACTURE
AC	ASPHALT CONCRETE	MG	MILLION GALLONS
ACP	ASBESTOS CEMENT PIPE	MH	MANHOLE
AD	ALGEBRAIC DIFFERENCE	MIN	MINIMUM
ADA	AMERICANS WITH DISABILITIES ACT	MISC	MISCELLANEOUS
ADPT	ADAPTER	MJ	MECHANICAL JOINT
AGG	AGGREGATE	MSL	MEAN SEA LEVEL
ALUM	ALUMINUM	N	NORTH
AP	ANGLE POINT	NO	NUMBER
APN	ASSESSORS PARCEL NUMBER	NA	NOT APPLICABLE
APPROX	APPROXIMATE	NIC	NOT IN CONTRACT
ARV	AIR RELEASE VALVE	NPT	NATIONAL PIPE THREAD
AVE	AVENUE	OC	ON CENTER
BC	BEGIN HORIZONTAL CURVE	OD	OUTSIDE DIAMETER
BLDG	BUILDING	OH	OVERHEAD
BLVD	BOULEVARD	OZ	OUNCE
BM	BENCHMARK	PA	PLANTER AREA
BO	BLOWOFF	PC	POINT OF CURVATURE
BV	BUTTERFLY VALVE	PCC	POINT OF COMPOUND CURVATURE
BVC	BEGIN VERTICAL CURVE	PCC	PORTLAND CEMENT CONCRETE
BW	BOTTOM OF WALL	PD	PLANTER DRAIN
B&R	BRELJE & RACE	PE	PLAIN END
CAV	COMBINATION AIR & VACUUM RELEASE VALVE	PG	PAD GRADE
CB	CATCH BASIN	PIV	POST INDICATOR VALVE
CBC	CALIFORNIA BUILDING CODE	℄	PROPERTY LINE
CDF	CONTROLLED DENSITY FILL	PN	PAVING NOTCH
CHK	CHECK	POC	POINT OF CONNECTION
CIPP	CAST-IN-PLACE PIPE	POC	POINT OF CURVE
℄	CENTERLINE	POS	PRIVATE OPEN SPACE
CL	CENTERLINE	POT	POINT ON TANGENT
CL	CLASS	PP	POWER POLE
CLR	CLEAR	PRC	POINT OF REVERSE CURVATURE
CMP	CORRUGATED METAL PIPE	PRV	PRESSURE REDUCING VALVE
CMPA	CORRUGATED METAL PIPE ARCH	PSI	POUND PER SQUARE INCH
CO	CLEANOUT	PSV	PRESSURE SUSTAINING VALVE
COAX	COAXIAL CABLE	PT	POINT OF TANGENCY
CONC	CONCRETE	PUE	PUBLIC UTILITY EASEMENT
COND	CONDUIT	PVC	POLYVINYL CHLORIDE
COTG	CLEANOUT TO GRADE	PVI	POINT OF VERTICAL INTERSECTION
CP	CONTROL POINT	PVMT	PAVEMENT
CPLG	COUPLING	PWE	PUBLIC WATER EASEMENT
CR	CURB RETURN	R	RADIUS
CSP	CORRUGATED STEEL PIPE	RC	RELATIVE COMPACTION
CTR	CENTER	RCB	REINFORCED CONCRETE BOX
CY	CUBIC YARDS	RCP	REINFORCED CONCRETE PIPE
C/C	CENTER TO CENTER	RD	ROAD
C&G	CURB AND GUTTER	RD	ROOF DRAIN
DBL	DOUBLE	RED	REDUCER
DCDC	DOUBLE CHECK DETECTOR CHECK	REF	REFERENCE
DDC	DOUBLE DETECTOR CHECK	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
DET	DETECTOR	RSC	REMOTE SUPERVISORY CONTROL
DI	DROP INLET	RT	RIGHT
DIA	DIAMETER	RT	RING TIGHT
DIP	DUCTILE IRON PIPE	RW	RECLAIMED WATER
DR	DRIVE	R/W	RIGHT OF WAY
DS	DOWNSTREAM	S	SOUTH
DWG	DRAWING	S	SLOPE
D/W	DRIVEWAY	S.A.D.	SEE ARCHITECTURAL DRAWINGS
E	EAST	SCADA	SUPERVISORY CONTROL & DATA ACQUISITION
EC	END HORIZONTAL CURVE	SCH	SCHEDULE
ECC	ECCENTRIC	SD	STORM DRAIN
EFFL	EFFLUENT (SEWER)	SDCB	STORM DRAIN CATCH BASIN
EG	EXISTING GROUND	SDCO	STORM DRAIN CLEANOUT
EL	ELEVATION	SDDI	STORM DRAIN DROP INLET
ELEC	ELECTRICAL	SDE	STORM DRAIN EASEMENT
ELL	ELBOW	SDMH	STORM DRAIN MANHOLE
ESE	EDGE OF PAVEMENT	SE	SEWER
ESMT	EASEMENT	S.E.D.	SEE ELECTRICAL DRAWINGS
EVC	END VERTICAL CURVE	SF	SQUARE FEET
EW	EACH WAY	S.L.D.	SEE LANDSCAPE DRAWINGS
EX	EXISTING	SOF	SLIP ON FLANGE
EXIST	EXISTING	SO	SIDE OPENING (SD)
FC	FACE OF CURB	S.P.D.	SEE PLUMBING DRAWINGS
FCA	FLANGED COUPLING ADAPTER	SPEC	SPECIFICATION
FDC	FIRE DEPARTMENT CONNECTION	SS	STAINLESS STEEL
FES	FLARED END SECTION	SS	SANITARY SEWER
FF	FINISHED FLOOR	SSCO	SANITARY SEWER CLEANOUT
FG	FINISHED GRADE	S.S.D.	SEE STRUCTURAL DRAWINGS
FH	FIRE HYDRANT	SSMH	SANITARY SEWER MANHOLE
℄	FLOWLINE	ST	STREET
FL	FLOWLINE	STA	STATION
FLG	FLANGE	STD	STANDARD
FLSO	FLOWLINE OF SIDE OPENING	STL	STEEL
FLEX	FLEXIBLE	SVC	SERVICE
FM	FORCE MAIN (PRESSURE)	SWE	SIDEWALK EASEMENT
FRP	FIBERGLASS REINFORCED PLASTIC	SY	SQUARE YARDS
FT	FEET	S/W	SIDEWALK
FTG	FOOTING	T	TANGENT
GALV	GALVANIZED	TAN	TANGENT
GB	GRADE BREAK	TB	TOP OF BOX
GPM	GALLONS PER MINUTE	TC	TOP OF CURB
GRD	GROUND	TCE	TEMPORARY CONSTRUCTION EASEMENT
GSP	GALVANIZED STEEL PIPE	TD	TOP OF DIKE
GV	GAS VALVE	TEL	TELEPHONE
GV	GATE VALVE	TEMP	TEMPORARY
HB	HOSE BIBB	TF	TOP OF FOUNDATION
HB	HEADER BOARD	TG	TOP OF GRATE
HDG	HOT DIPPED GALVANIZED	TND	THREADED
HDPE	HIGH DENSITY POLYETHYLENE	TW	TOP OF WALL
HP	HIGH POINT	TYP	TYPICAL
HPG	HIGH PRESSURE GAS	UFFG	UNDER FLOOR FINISHED GRADE
HWY	HIGHWAY	UNO	UNLESS NOTED OTHERWISE
ICV	IRRIGATION CONTROL VALVE	VC	VERTICAL CURVE
ID	INSIDE DIAMETER	W	WEST
INV	INVERT	W	WATER
IP	IRON PIPE	WM	WATER METER
IPS	IRON PIPE SIZE	WNF	WELD NECK FLANGE
IRR	IRRIGATION	WS	WATER SERVICE
ISA	INTERNATIONAL SIGN ASSOCIATION	WT	WEIGHT
JP	JOINT POLE	WV	WATER VALVE
JT	JOINT TRENCH	°	DEGREES
L	ARC LENGTH	'	MINUTES
L	LENGTH	"	SECONDS
LF	LINEAL FEET	Δ	DELTA
LO	LIP OF GARAGE	&	AND
LP	LOW POINT	@	AT
LT	LEFT	#	NUMBER
MAX	MAXIMUM	#	POUNDS
MBGR	METAL BEAM GUARD RAIL	%	PERCENT

FEMA INFORMATION

THE APPLICABLE FIRM FOR THIS SITE IS PANEL NO. 0041E, MAP NUMBER 06081C0041E, DATED OCTOBER 16, 2012. THIS SITE IS LOCATED IN ZONE X.

LIST OF CODES AND STANDARDS MODEL CODE EDITIONS EFFECTIVE JANUARY 1, 2017

2016 CA BUILDING STANDARDS ADMINISTRATIVE CODE
2016 CA BUILDING CODE VOLUME #1 AND #2
2016 CA ELECTRICAL CODE
2016 CA MECHANICAL CODE
2016 CA PLUMBING CODE
2016 CA ENERGY CODE
2016 CA FIRE CODE
2016 CA GREEN BUILDING STANDARDS CODE (CAL GREEN)
CALIFORNIA CODE OF REGULATIONS TITLE 19 PUBLIC SAFETY CODE 2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN.
*FOR A FULL LIST OF STANDARDS CURRENTLY ADOPTED BY THE STATE OF CALIFORNIA, SEE CBC CHAPTER 35 AND CFC CHAPTER 80. CURRENT REFERENCE STANDARDS APPLICABLE TO FIRE AND LIFE SAFETY, INCLUDED BUT NOT LIMITED TO THE FOLLOWING:

2016 NFPA 13 INSTALLATION OF FIRE SPRINKLER SYSTEM (CA AMENDED)
2016 NFPA 14 INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS (CA AMENDED)
2016 NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS
2016 NFPA 17A WET CHEMICAL FIRE EXTINGUISHING SYSTEMS
2016 NFPA 20 INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
2016 NFPA 24 INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED)
2016 NFPA 25 CALIFORNIA EDITION–TESTING, MAINTENANCE OF WATER–BASED FIRE PROTECTION SYSTEMS.
2016 NFPA 72 NATIONAL FIRE ALARM CODE (CA AMENDED)
2016 NFPA 110 EMERGENCY AND STANDBY POWER SYSTEMS
2001, 2015 EDITION NFPA–CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)
2012 ICC 300–12 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS

BENCHMARK

NAME: BENCHMARK #1410
DATUM: CITY OF SOUTH SAN FRANCISCO
ELEVATION: 117.37'
DESCRIPTION: CONCRETE MONUMENT IN MONUMENT WELL AT THE INTERSECTION OF EUCALYPTUS AVENUE AND COTTONWOOD AVENUE.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY WERE DERIVED FROM THE CALIFORNIA COORDINATES SYSTEM ZONE 3 (NAD 83), USING REAL–TIME KINEMATIC GLOBAL POSITIONING SYSTEMS METHODS.

LEGEND

LINES

BOUNDARY.....
PARCEL.....
CENTER.....
EASEMENT.....

UTILITY LINES

	EXISTING	PROPOSED
STORM DRAIN	24"SD	24"SD
WATER	8"W	8"W
SEWER	12"SS	12"SS
GAS	3"G	
ELECTRICAL	E	12_kV
TELEPHONE	T	
TELEVISION	TV	
JOINT TRENCH	JT	

TOPOGRAPHY

DROP INLET.....
DROP INLET WITH SIDE OPENINGS.....
WATER METER.....
WATER VALVE.....
BLOWOFF.....
FIRE HYDRANT.....
THRUST BLOCK.....
GAS METER.....
STORM DRAIN MANHOLE.....
STORM DRAIN CATCH BASIN.....
SEWER MANHOLE.....
SEWER CLEANOUT.....
JOINT POLE.....
LIGHT STANDARD.....
GUY/ANCHOR.....
CURB & GUTTER.....
AC DIKE.....
FENCE.....
CHAIN LINK FENCE.....
DITCH/SWALE.....
MONUMENT.....
TREE PROTECTION.....
TREE TO BE SAVED.....
TREE TO BE REMOVED.....

GENERAL NOTES

1. ANY DISCREPANCY DISCOVERED BY CONTRACTOR IN THESE PLANS OR ANY FIELD CONDITIONS DISCOVERED BY CONTRACTOR THAT MAY DELAY OR OBSTRUCT THE PROPER COMPLETION OF THE WORK PER THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE OWNER IMMEDIATELY UPON DISCOVERY. SAID NOTIFICATION SHALL BE IN WRITING.
2. ALL MATERIAL WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS, LATEST EDITION, AND THE STANDARD SPECIFICATIONS OF THE CITY OF SOUTH SAN FRANCISCO, LATEST EDITION, AND APPLICABLE UTILITY COMPANIES EXCEPT AS NOTED ON THE PLANS.
3. CONTRACTOR SHALL OBTAIN ALL AGENCIES' REQUIRED PERMITS AND PAY ALL FEES PRIOR TO COMMENCEMENT OF ANY WORK. ALL COSTS ASSOCIATED WITH OBTAINING PERMITS SHALL BE INCLUDED IN THE CONTRACT BID PRICE.
4. GRADE BREAKS ON CURBS AND SIDEWALKS SHALL BE ROUNDED OFF IN FORMS AND SURFACE FINISH.
5. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, GENERAL 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; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER, THE ARCHITECT AND HIS CONSULTANTS, AND THE SOUTH SAN FRANCISCO SCHOOL DISTRICT, AND EACH OF THEIR OFFICERS, EMPLOYEES AND AGENTS.
6. THE LOCATION AND EXTENT OF ALL BACKGROUND DATA, EXISTING LINE WORK, EXISTING CONTOUR ELEVATIONS AND EXISTING UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND ARE BASED ON SITE OBSERVATIONS, AERIAL PHOTOS, AS–BUILTS AND TOPOGRAPHIC AND FIELD SURVEY DATA. CONTRACTOR SHALL INDEPENDENTLY REVIEW GROUND, TOPOGRAPHY, AND TREE CONDITIONS THROUGHOUT THE SITE, AND ASSUME WHOLLY AND UNCONDITIONALLY THE RISK OF COMPLETING THE WORK SET OUT ON THESE PLANS, REGARDLESS OF ROCK, WATER TABLE, OR OTHER CONDITIONS WHICH CONTRACTOR MAY ENCOUNTER IN THE COURSE OF THE WORK.
7. ANY EXCESS MATERIALS SHALL BE CONSIDERED THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AWAY FROM THE JOB SITE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. PROVIDE GRADING PERMIT AND LETTER OF ACCEPTING MATERIAL BY PROPERTY OWNER PRIOR TO OBTAINING BUILDING PERMIT FOR ANY EXPORT MATERIALS.
8. AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION, THE CONTRACTOR, AND HIS SUBCONTRACTORS, SHALL PREVENT ANY DUST NUISANCE BY WATERING AND/OR TREATING THE SITE WITH AN APPROVED DUST CONTROL PALLIATIVE.
9. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING NOISE, DOORS, DUST AND DEBRIS TO MINIMIZE IMPACTS ON SURROUNDING ROADWAYS AND PROPERTIES.
10. CONTRACTOR SHALL BE RESPONSIBLE THAT ALL CONSTRUCTION EQUIPMENT IS EQUIPPED WITH MANUFACTURER APPROVED MUFFLERS/BAFFLES.
11. AN ENCROACHMENT PERMIT MUST BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS PRIOR TO BEGINNING ANY WORK WITHIN THE PUBLIC RIGHT–OF–WAY OR FOR ANY WORK ON UTILITIES LOCATED WITHIN PUBLIC EASEMENTS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE OR DETERIORATION OCCURRING TO EXISTING PUBLIC IMPROVEMENTS AS A DIRECT RESULT OF CONSTRUCTION ACTIVITY RELATED TO CONSTRUCTION OF THE COMMON IMPROVEMENTS (GRADING, ROAD CONSTRUCTION, UTILITY INSTALLATION, ETC.). REQUIRED REPAIR MAY INCLUDE PATCHING, SCARIFYING, OR OVERLAYING AFFECTED AREAS AS APPROPRIATE TO RETURN THE ROADS TO AS GOOD A CONDITION AS THEY WERE IN PRIOR TO CONSTRUCTION.
13. TRENCH EXCAVATIONS, SHORING, AND SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ATTENTION IS DRAWN TO THE STATE OF CALIFORNIA SAFETY ORDERS DEALING WITH "EXCAVATIONS AND TRENCHES".
14. IN THE EVENT THAT ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED DURING GRADING OR TRENCHING, WORK SHALL BE HALTED TEMPORARILY AND A QUALIFIED ARCHAEOLOGIST SHALL BE CONSULTED FOR EVALUATION OF THE ARTIFACTS AND TO RECOMMEND FUTURE ACTION. THE LOCAL INDIAN COMMUNITY SHALL ALSO BE NOTIFIED AND CONSULTED IN THE EVENT ANY ARCHAEOLOGICAL REMAINS ARE UNCOVERED.
15. CONSTRUCTION STAKING SHALL BE DONE BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA. CONTRACTOR SHALL REQUEST STAKING SERVICES AT LEAST TWO (2) WORKING DAYS PRIOR TO THE DATE STAKING IS NEEDED.
16. PERMANENT MONUMENTS DISTRIBUTED DURING THE PROCESS OF CONSTRUCTION SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE CONTRACTORS EXPENSE BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE ENGINEER.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM THE CITY BEFORE COMMENCING WORK. THE CONTRACTOR SHALL ALSO PROVIDE FLAGMEN, CONES OR BARRICADES, AS NECESSARY, TO CONTROL TRAFFIC AND PEDESTRIANS UNDER THE PREVAILING CONDITIONS PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PUBLISHED BY BUILDING NEWS INC. (213) 870–9871, AND PER CITY REQUIREMENTS. THE CONTRACTOR SHALL LEAVE A 24–HOUR EMERGENCY TELEPHONE NUMBER WITH POLICE, FIRE AND PUBLIC WORKS DEPARTMENTS AND KEEP THEM INFORMED DAILY OF DETOURS.
18. EXISTING PUBLIC PEDESTRIAN WALKWAYS, BIKE PATHS AND ACCESSIBLE ACCESS PATHWAYS SHALL BE MAINTAINED DURING CONSTRUCTION TO THE SATISFACTION OF THE CITY ENGINEER.
19. SHOULD IT APPEAR TO THE CONTRACTOR THAT THE WORK OUTLINED ON THESE PLANS IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL CONTACT THE ARCHITECT OR CIVIL DESIGN ENGINEER, BRELJE AND RACE CONSULTING CIVIL ENGINEERS AT (707) 576–1322, BEFORE PROCEEDING WITH THE WORK IN QUESTION AND REQUEST CLARIFICATION.
20. WHEN SPECIFICATIONS OR STANDARDS FROM DIFFERENT AUTHORITIES DIFFER FOR THE SAME OBJECT, NOTIFY THE OWNER AND REQUEST CLARIFICATION.
21. ARTICLE 87 OF THE UFC SHALL BE FOLLOWED FOR AREAS UNDER CONSTRUCTION. CONTACT THE LOCAL FIRE AUTHORITY FOR SPECIFIC REQUIREMENTS FOR BUILDINGS UNDER CONSTRUCTION.
22. THE CONTRACTOR SHALL BE AWARE THAT DEWATERING ACTIVITIES SHALL COMPLY WITH THE CONDITIONS OF THE BAY AREA REGIONAL WATER QUALITY CONTROL BOARD GENERAL PERMIT FOR CONSTRUCTION SITES.

GENERAL UNDERGROUND NOTES

1. NO GUARANTEE IS INTENDED THAT UNDERGROUND OBSTRUCTIONS, NOT SHOWN ON THESE PLANS, MAY BE ENCOUNTERED. THOSE SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE AND THE CONTRACTOR IS CAUTIONED THAT THE OWNER AND THE ENGINEERS ASSUME NO RESPONSIBILITY FOR ANY OBSTRUCTIONS EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY COMPANIES WORKING WITHIN THE LIMITS OF THIS PROJECT.
2. CONTRACTOR SHALL NOT BEGIN EXCAVATION UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD BY THE APPLICABLE ENTITY RESPONSIBLE FOR THAT PARTICULAR UTILITY. THE CONTRACTOR SHALL NOTIFY EACH APPLICABLE ENTITY AT LEAST 48 HOURS BEFORE STARTING WORK.
3. UNDERGROUND SERVICE ALERT: CALL TOLL FREE (800) 227–2600 AT LEAST 48 HOURS PRIOR TO EXCAVATION.
4. CONTRACTOR SHALL UNCOVER EXISTING BURIED UTILITIES, INCLUDING STUBS PROVIDED BY THE DEVELOPER OF THE ADJACENT SUBDIVISION OR UTILITY OWNER TO VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES. BURIED UTILITIES INCLUDE BUT ARE NOT LIMITED TO WATER MAINS AND LATERALS, SEWER LINES, STORM DRAINS, GAS MAINS AND LATERALS, ELECTRICAL DISTRIBUTION LINES AND TELEPHONE LINES. ALL UTILITIES CONFLICTING WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL VERIFY EXISTING INVERTS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE PROJECT AND/OR DESIGN ENGINEER MAY ADJUST THE GRADE OF NEW SEWER CONSTRUCTION ACCORDINGLY WITH CONCURRENCE FROM THE ENGINEER.
6. DISTANCES AND INVERTS ARE TO AND AT THE CENTER OF THE MANHOLES, CLEANOUTS, DROP INLETS, CATCH BASINS, AND YARD DRAINS OR AS MARKED ON THE DRAWINGS.
7. ALL UNDERGROUND IMPROVEMENTS SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.
8. ALL WORK ON THE FIRE SYSTEM SHALL COMPLY WITH CALIFORNIA WATER COMPANY BAYSHORE DISTRICT, LOCAL FIRE DISTRICT, AND NFPA24 REQUIREMENTS.
9. ALL SEWER PIPING AND FITTINGS SHALL BE PVC SDR 26. SEWER PIPE AND FITTINGS WITHIN THE PUBLIC RIGHT OF WAY SHALL MEET THE CITY OF SOUTH SAN FRANCISCO SANITARY DISTRICT STANDARDS.
10. ALL SANITARY SEWER CLEANOUTS SHALL BE CONSTRUCTED PER THE CITY OF SOUTH SAN FRANCISCO CLEANOUT STANDARDS. RAISED LETTER ON TOP OF THE COVER SHALL READ "SEWER".
11. UTILITIES SHALL NOT BE LOCATED IN THE INFLUENCE ZONE OF ADJACENT STRUCTURAL FOUNDATIONS. TOP OF FOOTING ELEVATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AS DESCRIBED ON THE ARCHITECTURAL PLANS. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LOCATION AND ELEVATION OF UTILITIES LOCATED ADJACENT TO STRUCTURAL FOUNDATIONS AND SET TOP OF FOOTING ELEVATION OF SUFFICIENT DEPTH TO AVOID CREATING A CONDITION WHERE THE ADJACENT UTILITY LINE WILL LIE WITHIN THE INFLUENCE ZONE OF THE STRUCTURAL FOUNDATION.
12. LOCATION, SIZE AND INVERT ELEVATION DATA SHOWN FOR EXISTING UTILITY FACILITIES ARE BASED ON RECORD, TOPOGRAPHIC & FIELD SURVEY DATA PROVIDED BY SANDIS, 636 EAST DUANE AVE., SUNNYVALE, CA 94085. CONTRACTOR MUST POTHOLE TO LOCATE CONFIRM SIZE, AND WHERE INDICATED, DEPTH OF EXISTING UTILITIES PRIOR TO ANY UTILITY CONSTRUCTION. NOTIFY ENGINEER OF RESULTS. SOME RESULTS MAY IMPACT THE APPROVED DESIGN.
13. A MINIMUM OF 6" CLEARANCE SHALL BE PROVIDED AT ALL PIPE UTILITY CROSSING POINTS. WHERE WATER MAIN CROSS SEWER OR STORM DRAIN PROVIDE A MINIMUM OF 12" CLEARANCE.
14. UTILITY TRENCHES SHOULD BE SEALED WITH CONCRETE, CLAYEY SOIL, SAND–CEMENT SLURRY, OR CONTROLLED DENSITY FILL (CDF) WHERE THE UTILITY ENTERS THE BUILDING UNDER THE PERIMETER FOUNDATION, TO REDUCE THE POTENTIAL OF WATER BENEATH THE BUILDING.
15. EXISTING UNDERGROUND UTILITIES, INCLUDING ELECTRICAL & TELECOMMUNICATION LINES ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL REMAIN AND BE PROTECTED UNLESS NOTED OTHERWISE ON THE PLANS. UTILITIES LINES DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY REPORTED TO THE RESIDENT ENGINEER, REPAIRED AND SERVICES RESTORED AT NO ADDITIONAL COST TO THE OWNER.
16. CONTACT CITY (CITY OF SOUTH SAN FRANCISCO PUBLIC WORKS (650)–877–8550) WITHIN 48 HOUR NOTICE BEFORE UNDERTAKING ANY WORK WITHIN THE CITY OF SOUTH SAN FRANCISCO RIGHT OF WAY.

GRADING NOTES

1. ALL GRADING SHALL CONFORM TO THE REQUIREMENTS OF THE GEOTECHNICAL INVESTIGATION PREPARED FOR THIS PROJECT BY GEOSPHERE CONSULTANTS INC., ENTITLED GEOTECHNICAL ENGINEERING AND GEOLOGIC HAZARDS STUDY, PARKWAY HEIGHTS MIDDLE SCHOOL, DATED JANUARY 30, 2013 AND ADDENDUM #1 TO THE GEOTECHNICAL ENGINEERING AND GEOLOGIC HAZARDS STUDY BY GEOSPHERE CONSULTANTS INC. DATED DECEMBER 6, 2013.
2. NO WORK SHALL COMMENCE UNTIL THE CONTRACTOR, GRADING CONTRACTOR, AND ALL RELATED SUBCONTRACTORS HAVE OBTAINED A COPY OF THE GEOTECHNICAL INVESTIGATION REPORT AND ANY ADDITIONAL GEOTECHNICAL RECOMMENDATIONS FOR THIS PROJECT. COPIES OF THIS REPORT AND ADDITIONAL LETTERS ARE AVAILABLE AT THE ARCHITECT'S OFFICE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THIS REFERENCED REPORT AND ALL SUBSEQUENT GEOTECHNICAL REPORTS, INVESTIGATION, TESTS AND ANY OTHER DOCUMENTS PREPARED BY THE GEOTECHNICAL ENGINEER AND ALSO IN ACCORDANCE WITH THE GRADING PLANS PREPARED BY BRELJE & RACE AND APPENDIX CHAPTER 33A OF THE CALIFORNIA BUILDING CODE.
3. AREAS TO BE DEVELOPED SHOULD BE CLEARED OF VEGETATION, EX ASPHALT, FOUNDATIONS AND DEBRIS. CLEARED AND GRUBBED MATERIAL SHOULD BE REMOVED FROM THE SITE AND DISPOSED OF. VOIDS CREATED DURING CLEARING SHALL BE BACKFILLED WITH ENGINEERED FILL AS SPECIFIED. AT THE CONTRACTORS OPTION, THE DEMOLISHED EXISTING ASPHALT PAVEMENT AND AGGREGATE BASE ROCK MAY BE GROUND DOWN AND STOCKPILED AND REUSED AS RECYCLED AS CLASS II BASE ROCK UNDER PROPOSED ASPHALT AND CONCRETE FLATWORK AREAS OR AS SELECT FILL PROVIDED IT IS APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER AND MATERIAL MEETS THE GRADATION AND STRENGTH REQUIREMENTS OF VIRGIN MATERIAL. RECYCLED ASPHALT PAVEMENT AND BASE ROCK CANNOT BE UNDER OR WITHIN 5' OF THE LIMITS OF THE PROPOSED BUILDING FOUNDATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE QUANTITY OF RECYCLED CLASS 2 AGGREGATE BASE ROCK THAT CAN BE GENERATED AND THE QUANTITY REQUIRED FOR THE PROPOSED IMPROVEMENTS. ANY EXCESS DEMOLISHED ASPHALT AND AGGREGATE BASE SHALL BE HAULED FROM THE SITE AND IS THE PROPERTY OF THE CONTRACTOR.
4. AREAS TO BE GRADED SHOULD BE STRIPPED OF THE UPPER FEW INCHES OF SOIL CONTAINING ORGANIC MATTER. ACTUAL STRIPPING DEPTH SHOULD BE DETERMINED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER IN THE FIELD AT THE TIME OF STRIPPING. THE STRIPPINGS SHOULD BE REMOVED FROM THE SITE. SITE STRIPPINGS AND GRUBBED MATERIALS ARE NOT SUITABLE FOR RE–USE AS ENGINEERED FILL AND SHOULD BE REMOVED FROM THE SITE OR STOCKPILED FROM THE SITE OR STOCKPILED FOR LATER USE AS LANDSCAPE FILL (AT THE DISTRICT'S DISCRETION).
5. IN GENERAL, CUT AND FILL SLOPES SHOULD BE NO STEEPER THAN 2:1.
6. UNDER EXTERIOR CONCRETE AREAS: FOLLOWING DEMOLITION OF THE ENTIRE AREA WITHIN THE PROPOSED HARDSCAPE AREAS, THE EXPOSED UNDERLYING SOILS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES, MOISTURE CONDITIONED TO NEAR OPTIMUM MOISTURE CONTENT AND RECOMPACTED TO AT LEAST 90% RELATIVE COMPACTION. IF LOOSE OR SOFT SOIL IS ENCOUNTER, THESE SHOULD BE REMOVED TO EXPOSE FIRM SOIL AND BACKFILLED WITH SELECT FILL MOISTENED TO NEAR OPTIMUM MOISTURE CONTENT AND RE–COMPACTED TO AT LEAST 90% RELATIVE COMPACTION. PROOF ROLL EXPOSED SUBGRADE TO A FIRM AND UNYIELDING SURFACE UNDER THE OBSERVATION OF THE PROJECT GEOTECHNICAL ENGINEER OR HIS DESIGNATED REPRESENTATIVE PRIOR TO THE PLACEMENT OF AGGREGATE BASE. PLACEMENT OF A SUITABLE GEOTEXTILE FOR STABILIZATION MAY BE REQUIRED. SOFT SPOTS OR AREAS OF YIELDING MAY REQUIRE OVEREXCAVATION AND REPLACEMENT WITH SUITABLE MATERIAL. REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR FURTHER REQUIREMENTS.
7. UNDER PAVED CONCRETE AND ASPHALT VEHICULAR AREAS: FOLLOWING DEMOLITION OF THE ENTIRE AREA WITHIN THE PROPOSED PAVED TRAFFIC AREAS AND 1' BEYOND THE LIMITS OF THE PAVED AREAS, THE EXPOSED UNDERLYING SOILS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 12 INCHES, MOISTURE CONDITIONED TO NEAR OPTIMUM MOISTURE CONTENT AND RECOMPACTED TO AT LEAST 95% RELATIVE COMPACTION. IF LOOSE OR SOFT SOIL IS ENCOUNTER, THESE SHOULD BE REMOVED TO EXPOSE FIRM SOIL AND BACKFILLED WITH SELECT FILL MOISTENED TO NEAR OPTIMUM MOISTURE CONTENT AND RE–COMPACTED TO AT LEAST 95% RELATIVE COMPACTION. PROOF ROLL EXPOSED SUBGRADE TO A FIRM AND UNYIELDING SURFACE UNDER THE OBSERVATION OF THE PROJECT GEOTECHNICAL ENGINEER OR HIS DESIGNATED REPRESENTATIVE PRIOR TO THE PLACEMENT OF AGGREGATE BASE. PLACEMENT OF A SUITABLE GEOTEXTILE FOR STABILIZATION MAY BE REQUIRED. SOFT SPOTS OR AREAS OF YIELDING MAY REQUIRE OVEREXCAVATION AND REPLACEMENT WITH SUITABLE MATERIAL. REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR FURTHER REQUIREMENTS.
8. ALL IMPORT MATERIAL (SELECT FILL) SHALL BE NON–EXPANSIVE CLEAN, FREE OF ORGANIC MATERIAL, AND LUMPS AND ROCKS GREATER THAN THREE INCHES IN DIAMETER. IMPORTED SOIL SHOULD BE NON–EXPANSIVE, HAVING A PLASTICITY INDEX OF 15 R LESS, AN R–VALUE GREATER THAN 40, AND CONTAIN AT LEAST 10 PERCENT FINES SO THE SOIL CAN BIND TOGETHER. ALL FILL MATERIAL SHOULD BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO USE ON SITE. AT THE CONTRACTORS OPTION, THE DEMOLISHED EXISTING ASPHALT PAVEMENT AND AGGREGATE BASE ROCK MAY BE GROUND DOWN AND STOCKPILED AND REUSED AS SELECT FILL PROVIDED IT MEETS THE REQUIREMENTS FOR SELECT FILL LISTED ABOVE AND IT IS APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER. RECYCLED ASPHALT PAVEMENT AND BASE ROCK CANNOT BE UNDER OR WITHIN 5' OF THE LIMITS OF THE

NOTES

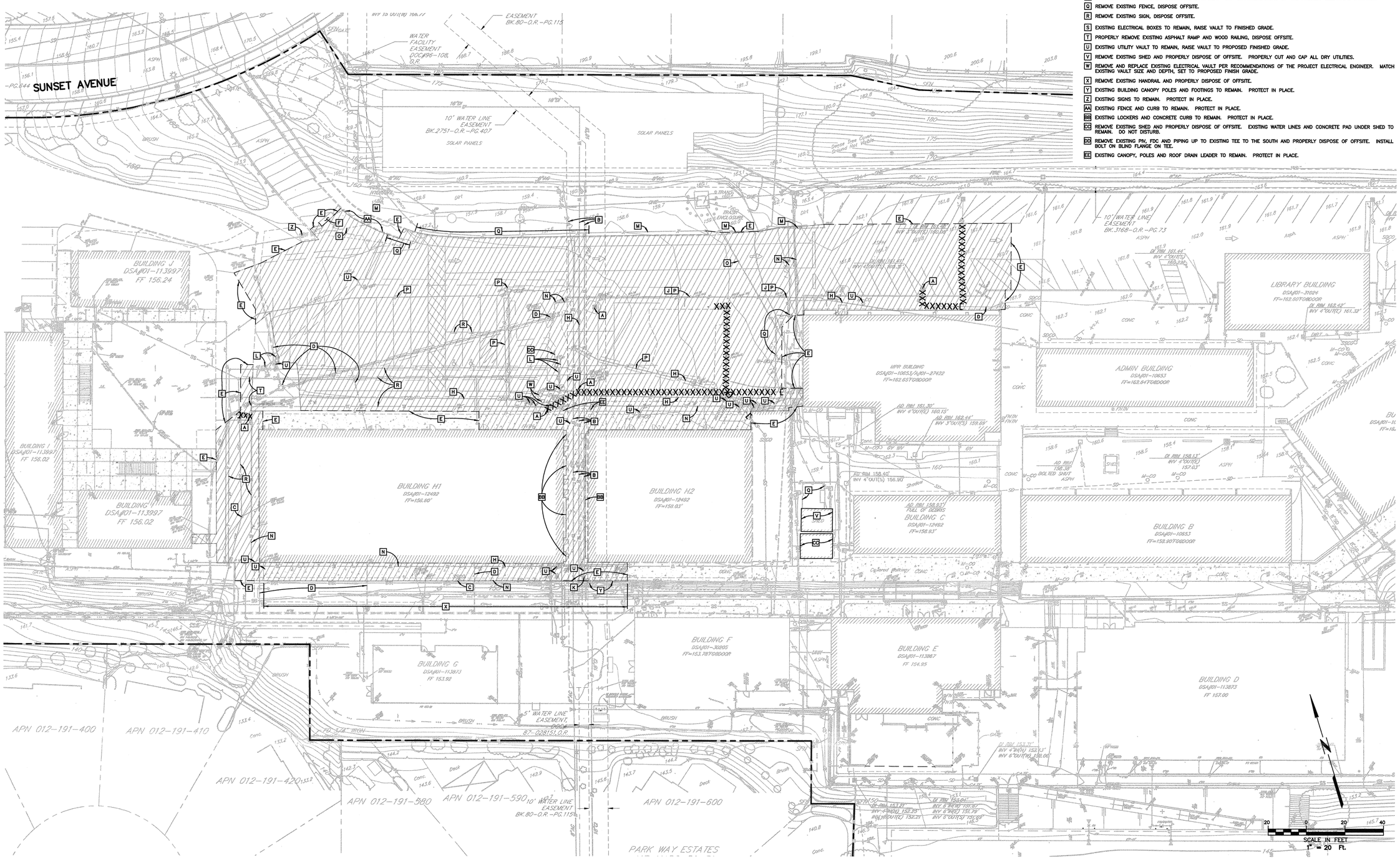
1. THE LOCATION AND EXTENT OF ALL BACKGROUND DATA, EXISTING LINE WORK, EXISTING CONTOUR ELEVATIONS AND EXISTING UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND ARE BASED ON SITE OBSERVATIONS, AERIAL PHOTOS, AS-BUILTS AND TOPOGRAPHIC AND FIELD SURVEY DATA. THE CONTRACTOR SHALL INDEPENDENTLY REVIEW GROUND, TOPOGRAPHY, AND CURRENT SITE CONDITIONS THROUGHOUT THE SITE, AND ASSUME WHOLLY AND UNCONDITIONALLY THE RISK OF COMPLETING THE PROPOSED WORK SHOWN ON THESE PLANS, REGARDLESS OF ROCK, WATER TABLE, OR OTHER CONDITIONS WHICH CONTRACTOR MAY ENCOUNTER IN THE COURSE OF THE WORK.
2. THE CONTRACTOR SHALL PROPERLY REMOVE AND RECYCLE ALL CONCRETE, METAL AND ALL OTHER DEBRIS AND RUBBLE FROM THE PROJECT SITE PER THE CONTRACT DOCUMENTS. IN THE EVENT THAT THE PRESENCE OF HAZARDOUS MATERIALS IS SUSPECTED OR DISCOVERED ON THE SITE, THE CONTRACTOR SHALL INFORM THE OWNER. IN RESPONSE, THE OWNER SHALL RETAIN AN INDEPENDENT TESTING LABORATORY TO DETERMINE THE NATURE OF THE MATERIAL ENCOUNTERED AND WHETHER CORRECTIVE MEASURES OR REMEDIAL ACTION IS REQUIRED.

LEGEND

- EXISTING CONCRETE, ASPHALT AND BASE MATERIALS TO BE REMOVED. ALL MATERIALS TO BE DISPOSED OF OFFSITE BY THE CONTRACTOR.
- XXXXXX EXISTING UTILITY LINE AND ASSOCIATED UTILITY STRUCTURES TO BE REMOVED AND PROPERLY DISPOSED OF OFFSITE (SEWER/ WATER/ STORM DRAIN ONLY). REFER TO ELECTRICAL AND MECHANICAL PLANS FOR ALL OTHER UTILITY DEMOLITION REQUIREMENTS. BACKFILL UTILITY REMOVAL EXCAVATIONS. BACKFILL EXCAVATIONS WITH COMPACTED EARTH PER GEOTECHNICAL RECOMMENDATIONS AND NOTES.
- CUT AND PROPERLY CAP EXISTING UTILITY. CAP MATERIAL SHALL MATCH EXISTING PIPE MATERIAL.

DEMOLITION NOTES

- A REMOVE EXISTING STORM DRAIN INLET, DISPOSE OFFSITE.
- B EXISTING PUBLIC WATER LINE TO REMAIN. DO NOT DISTURB EXISTING WATER LINE, WATER LINE SHALL REMAIN ACTIVE DURING CONSTRUCTION.
- C EXISTING SEWER STRUCTURE TO REMAIN, PROTECT IN PLACE.
- D EXISTING STORM DRAIN LINE AND STRUCTURES TO REMAIN. PROTECT IN PLACE, DO NOT DISTURB. PROTECT INLETS FROM SILT AND SOIL.
- E SAWCUT EXISTING PAVEMENT.
- F EXISTING TRAFFIC SPIKE STRIP TO REMAIN, PROTECT IN PLACE.
- H WORK WITH DISTRICT TO IDENTIFY KEY UTILITY CORRIDORS AND COMPONENTS. DEMOLITION EFFORTS MUST CAREFULLY PRESERVE CRITICAL UTILITY SYSTEMS IN PLACE AS REQUIRED FOR CONTINUED OPERATIONS IN PARTS OF THE CAMPUS NOT CURRENTLY UNDERGOING DEMOLITION.
- J PROPERLY REMOVE EXISTING GAS LINES AND EQUIPMENT PER RECOMMENDATIONS OF THE PROJECT MECHANICAL ENGINEER.
- K EXISTING WATER METER TO REMAIN. RAISE VAULT TO PROPOSED SIDEWALK FINISHED GRADE.
- L EXISTING WATER STRUCTURE TO REMAIN. PROTECT IN PLACE, DO NOT DISTURB.
- M EXISTING FENCE AND GATES TO REMAIN. PROTECT IN PLACE, DO NOT DISTURB.
- N PROTECT EXISTING UTILITIES IN PLACE. DO NOT DISTURB. LOCATION OF EXISTING UTILITIES IS APPROXIMATE, VERIFY IN FIELD.
- O PROTECT EXISTING ACTIVE ELECTRICAL LINES IN PLACE. DO NOT DISTURB. USE CAUTION WHEN WORKING AROUND EXISTING ELECTRICAL LINES AND BOXES. LOCATION OF EXISTING UTILITIES IS APPROXIMATE, VERIFY IN FIELD.
- P PROPERLY REMOVE EXISTING ELECTRICAL EQUIPMENT PER RECOMMENDATIONS OF THE PROJECT ELECTRICAL ENGINEER.
- Q REMOVE EXISTING FENCE, DISPOSE OFFSITE.
- R REMOVE EXISTING SIGN, DISPOSE OFFSITE.
- S EXISTING ELECTRICAL BOXES TO REMAIN, RAISE VAULT TO FINISHED GRADE.
- T PROPERLY REMOVE EXISTING ASPHALT RAMP AND WOOD RAILING, DISPOSE OFFSITE.
- U EXISTING UTILITY VAULT TO REMAIN, RAISE VAULT TO PROPOSED FINISHED GRADE.
- V REMOVE EXISTING SHED AND PROPERLY DISPOSE OF OFFSITE. PROPERLY CUT AND CAP ALL DRY UTILITIES.
- W REMOVE AND REPLACE EXISTING ELECTRICAL VAULT PER RECOMMENDATIONS OF THE PROJECT ELECTRICAL ENGINEER. MATCH EXISTING VAULT SIZE AND DEPTH, SET TO PROPOSED FINISH GRADE.
- X REMOVE EXISTING HANDRAIL AND PROPERLY DISPOSE OF OFFSITE.
- Y EXISTING BUILDING CANOPY POLES AND FOOTINGS TO REMAIN. PROTECT IN PLACE.
- Z EXISTING SIGNS TO REMAIN. PROTECT IN PLACE.
- AA EXISTING FENCE AND CURB TO REMAIN. PROTECT IN PLACE.
- BB EXISTING LOCKERS AND CONCRETE CURB TO REMAIN. PROTECT IN PLACE.
- CC REMOVE EXISTING SHED AND PROPERLY DISPOSE OF OFFSITE. EXISTING WATER LINES AND CONCRETE PAD UNDER SHED TO REMAIN. DO NOT DISTURB.
- DD REMOVE EXISTING PIV, FDC AND PIPING UP TO EXISTING TEE TO THE SOUTH AND PROPERLY DISPOSE OF OFFSITE. INSTALL BOLT ON BLIND FLANGE ON TEE.
- EE EXISTING CANOPY, POLES AND ROOF DRAIN LEADER TO REMAIN. PROTECT IN PLACE.



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REGISTERED PROFESSIONAL ENGINEER — No. 40512 — Exp. 3-31-18 — CIVIL — STATE OF CALIFORNIA — 10-27-17

Parkway Heights Middle School

Modernization - Phase 2

650 Sunset Ave
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(SSFUSD #05-17)

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IDENTIFICATION STAMP
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FILE NO: 41-28
APPL NO: 01-116522
AC. FLS. SS. 1/4
DATE NOV 09 2017

REVISIONS

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DRAWING SCALE:	1"= 20'
PTN:	69070-97

CONSTRUCTION DOCUMENTS
11/02/2017

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

C1

10-18-17 gleason \3874\dwg\3874 05\3874.05-BASE-PHASE 2.dwg TAB: C1 DEMO

LEGEND

(1)(2)(3)(4) CURB TYPES PER DETAILS SHEET C8

GRADING NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

1. SEE LANDSCAPE DRAWINGS FOR STAIR HANDRAIL DETAILS.
2. SEE LANDSCAPE DRAWINGS FOR RAMP HANDRAIL DETAILS.
3. INSTALL REDWOOD HEADER BOARD, PER DETAIL SHEET C8.
4. GRADE AREA TO DRAIN TO STORM DRAIN INLET.
5. ADJUST UTILITY BOX TO FINISHED GRADE.
6. INSTALL ADA PARKING AND SIGNS, PER DETAIL SHEET C10.
7. NEW GATE AND FENCE. SEE ARCHITECTURAL PLANS FOR DETAILS.
8. INSTALL #4 STEEL DOWEL INTO EXISTING SIDEWALK, PER DETAIL SHEET C8.
9. DOWEL NEW SIDEWALK INTO EXISTING BUILDING FOUNDATION, PER DETAIL SHEET C8.
10. INSTALL SPEED BUMP, PER DETAIL SHEET C8.
12. PROVIDE AND INSTALL TYPE A PEDESTRIAN RAMP PER DETAIL SHEET C10.
13. PROVIDE AND INSTALL TYPE B PEDESTRIAN RAMP PER DETAIL SHEET C10.
14. INSTALL 2' CURB TRANSITION PER DETAIL SHEET C8.
20. RAISE FIRE HYDRANT TO FINISHED GRADE WITH FLANGED DIP PIPE EXTENSION. SEE DETAIL SHEET C9 FOR DIMENSIONS.
25. INSTALL DRAINAGE SWALE, PER DETAIL SHEET C8.
27. GRADE AREA NORTH OF PROPOSED BACK OF SIDEWALK TO DRAIN SOUTH TO PROPOSED SIDEWALK AT 2:1 OR FLATTER SLOPE.
28. RESET EXISTING STORM DRAIN CATCH BASIN TOP TO PROPOSED FINISHED GRADE.
29. NEW GATE AND FENCE. SEE LANDSCAPE DRAWINGS FOR DETAILS.
31. INSTALL ASPHALT SPEED BUMP. MATCH EXISTING SPEED BUMP WIDTH AND HEIGHT TO THE EAST, PAINT SPEED BUMP YELLOW.
32. REPLACE EXISTING CONCRETE ELECTRICAL VAULT. MATCH EXISTING VAULT SIZE AND DEPTH. SET TOP OF VAULT TO FINISHED GRADE.
33. PROTECT EXISTING WATER LINES DURING CONSTRUCTION, POTHOLE TO DETERMINE DEPTH AND LOCATION PRIOR TO ANY CONSTRUCTION.
34. PROTECT EXISTING UNDERGROUND ELECTRICAL LINES DURING CONSTRUCTION. POTHOLE TO DETERMINE DEPTH AND LOCATIONS PRIOR TO ANY CONSTRUCTION.
35. INSTALL PCC PAVING EDGE, PER DETAIL SHEET C8.
36. MATCH EXISTING GRADE AT TRASH ENCLOSURE CONCRETE TRASH PAD.
37. INSTALL NEW FENCE AROUND OLD SHED PAD AND EXISTING WATER LINES. SEE ARCHITECTURAL DRAWINGS FOR FENCE DETAILS.

BUILDING H1
DSA#01-12492
FF=156.60'

BUILDING H2
DSA#01-12492
FF=158.03'

SCALE IN FEET
1" = 10' FT

SEE SHEET C3

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Parkway Heights Middle School

Modernization - Phase 2

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South San Francisco Unified School District

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CONSTRUCTION DOCUMENTS
11/02/2017

SHEET TITLE

GRADING PLAN

SHEET NUMBER

C2

11-08-17 gleason \3874\dwg\3874_05_BASE-PHASE 2.dwg TAB: C2 GRAD

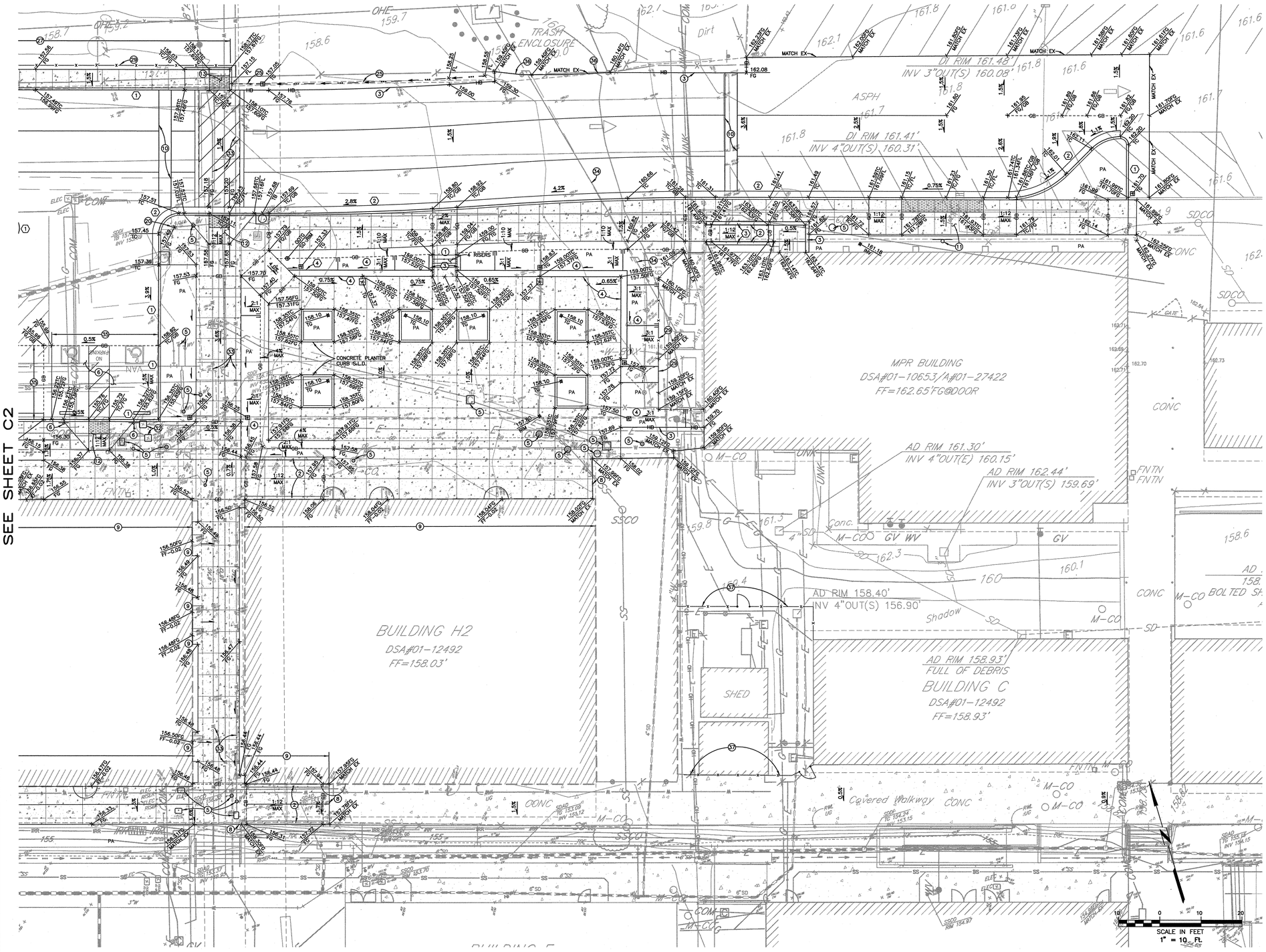
LEGEND

1 2 3 4 CURB TYPES PER DETAILS SHEET C8

GRADING NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

1. SEE LANDSCAPE DRAWINGS FOR STAIR HANDRAIL DETAILS.
2. SEE LANDSCAPE DRAWINGS FOR RAMP HANDRAIL DETAILS.
3. INSTALL REDWOOD HEADER BOARD, PER DETAIL SHEET C8.
4. GRADE AREA TO DRAIN TO STORM DRAIN INLET.
5. ADJUST UTILITY BOX TO FINISHED GRADE.
6. INSTALL ADA PARKING AND SIGNS, PER DETAIL SHEET C10.
7. NEW GATE AND FENCE. SEE ARCHITECTURAL PLANS FOR DETAILS.
8. INSTALL #4 STEEL DOWEL INTO EXISTING SIDEWALK, PER DETAIL SHEET C8.
9. DOWEL NEW SIDEWALK INTO EXISTING BUILDING FOUNDATION, PER DETAIL SHEET C8.
10. INSTALL SPEED BUMP, PER DETAIL SHEET C8.
11. PROVIDE AND INSTALL PASSENGER DROP-OFF RAMP AND SIGN, PER DETAIL SHEET C10.
12. PROVIDE AND INSTALL TYPE A PEDESTRIAN RAMP PER DETAIL SHEET C10.
13. PROVIDE AND INSTALL TYPE B PEDESTRIAN RAMP PER DETAIL SHEET C10.
15. CONNECT TO EXISTING STORM DRAIN, VERIFY SIZE, LOCATION AND INVERT ELEVATION OF EXISTING STORM DRAIN. NOTIFY ENGINEER OF RESULTS FOR POSSIBLE ADJUSTMENTS OF STORM DRAIN LAYOUT AND OR INVERT ELEVATIONS.
20. RAISE FIRE HYDRANT TO FINISHED GRADE WITH FLANGED DIP PIPE EXTENSION. SEE DETAIL SHEET C9 FOR DIMENSIONS.
25. INSTALL DRAINAGE SWALE, PER DETAIL SHEET C8.
27. GRADE AREA NORTH OF PROPOSED BACK OF SIDEWALK TO DRAIN SOUTH TO PROPOSED SIDEWALK AT 2:1 OR FLATTER SLOPE.
37. INSTALL NEW FENCE AROUND OLD SHED PAD AND EXISTING WATER LINES. SEE ARCHITECTURAL DRAWINGS FOR FENCE DETAILS.



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SHEET TITLE

GRADING PLAN

SHEET NUMBER

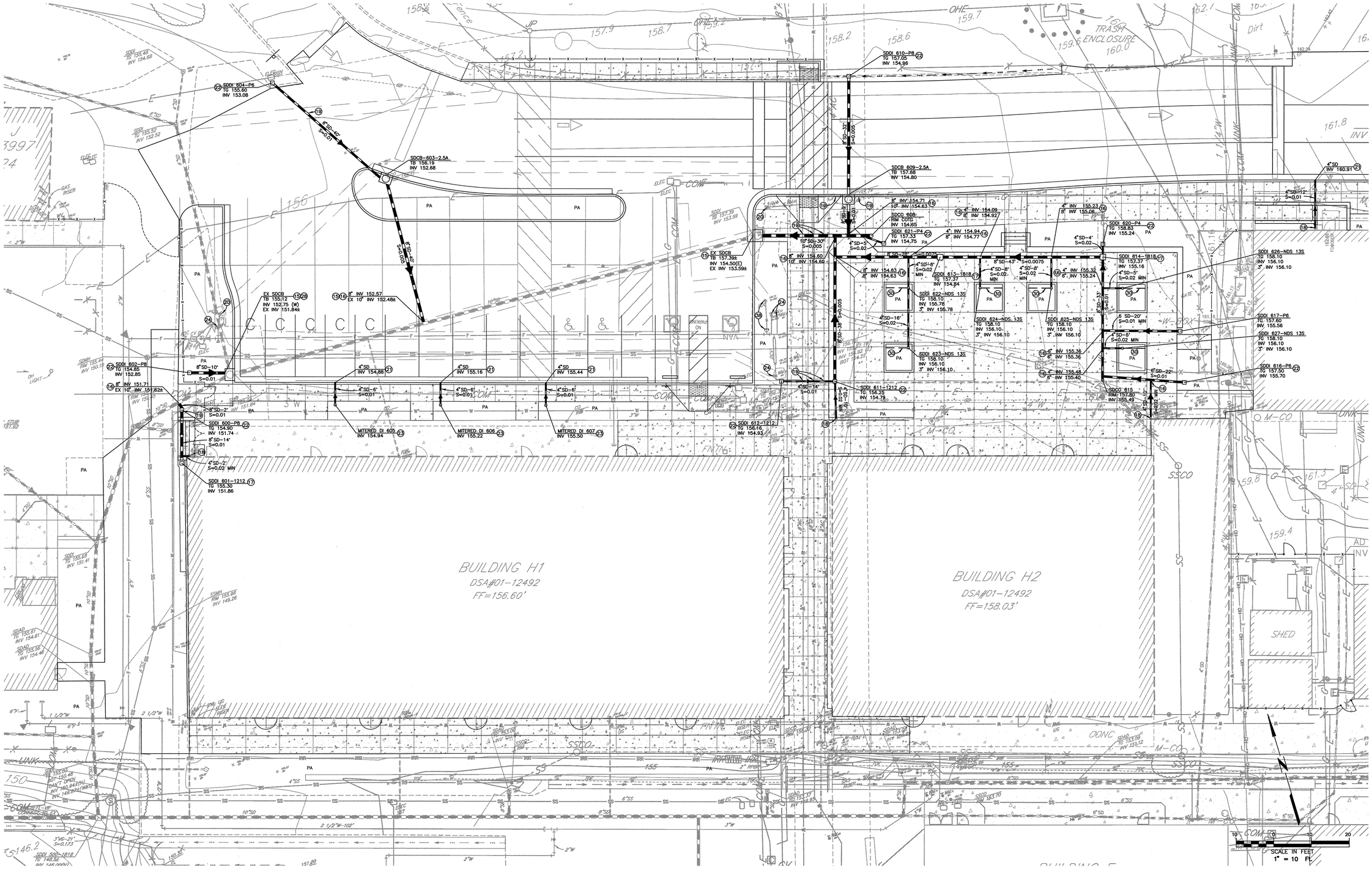
C3

11-09-17 gleason J:\3874.dwg\3874_05\3874.05-BASE-PHASE 2.dwg TAB: C3 GRAD

UTILITY NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

15. CONNECT TO EXISTING STORM DRAIN, VERIFY SIZE, LOCATION AND INVERT ELEVATION OF EXISTING STORM DRAIN. NOTIFY ENGINEER OF RESULTS FOR POSSIBLE ADJUSTMENTS OF STORM DRAIN LAYOUT AND OR INVERT ELEVATIONS.
16. BLIND CONNECTION TO STORM DRAIN, PER DETAIL SHEET C9.
17. SDDI SHALL HAVE A BOLT DOWN ADA APPROVED GALVANIZED STEEL GRATE WITH PAVING NOTCH.
18. CONNECT TO EXISTING ROOF WATER LEADERS WITH 4" RUBBER COUPLING CONNECTION AND STAINLESS STEEL CLAMPS.
19. POTHOLE AND VERIFY SIZE, LOCATION AND INVERT ELEVATIONS OF EXISTING UTILITY LINE BEFORE ANY UTILITY CONSTRUCTION, OR ORDERING ANY STORM DRAIN STRUCTURES. NOTIFY ENGINEER OF RESULTS FOR POSSIBLE ADJUSTMENTS OF STORM DRAIN LAYOUT AND OR INVERT ELEVATIONS.
20. RAISE FIRE HYDRANT TO FINISHED GRADE WITH FLANGED DIP PIPE EXTENSION. SEE DETAIL SHEET C9 FOR DIMENSIONS.
21. INSTALL 4" SIDEWALK DRAIN PER DETAIL SHEET C9.
22. SDDI SHALL HAVE A GALVANIZED STEEL BOLT DOWN 12"x 12" ATRIUM GRATE.
23. INSTALL 4" MITERED DRAIN INLET (MODEL NO. 4MD3P) AT THE END OF THE 4" DIAMETER PVC SDR-35 STORM DRAIN, PER DETAIL SHEET C9.
24. INSTALL WATER LINE GATE VALVE BOX, PER DETAIL SHEET C9. SET TOP OF BOX TO FINISHED GRADE.
28. RESET EXISTING STORM DRAIN CATCH BASIN TOP TO PROPOSED FINISHED GRADE.
30. INSTALL 3" SUBDRAIN PER DETAIL SHEET C8.
38. REMOVE EXISTING PIV AND FDC AND PIPE UP TO EXISTING TEE TO THE SOUTH. INSTALL BOLT ON BLIND FLANGE ON TEE.



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REGISTERED PROFESSIONAL ENGINEER BARRY KWOK No. 40512 Exp. 3-31-19 CIVIL STATE OF CALIFORNIA

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CONSTRUCTION DOCUMENTS
11/02/2017

SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C4

11-08-17 gleason \3874\dwg\3874 05\3874.05-BASE-PHASE 2.dwg TAB: C4 UTIL

UTILITY NOTES

(ONLY NOTES RELEVANT TO THIS SHEET ARE SHOWN)

15. CONNECT TO EXISTING STORM DRAIN, VERIFY SIZE, LOCATION AND INVERT ELEVATION OF EXISTING STORM DRAIN. NOTIFY ENGINEER OF RESULTS FOR POSSIBLE ADJUSTMENTS OF STORM DRAIN LAYOUT AND OR INVERT ELEVATIONS.
16. BLIND CONNECTION TO STORM DRAIN, PER DETAIL SHEET C9.
17. SDDI SHALL HAVE A BOLT DOWN ADA APPROVED GALVANIZED STEEL GRATE WITH PAVING NOTCH.
18. CONNECT TO EXISTING ROOF WATER LEADERS WITH 4" RUBBER COUPLING CONNECTION AND STAINLESS STEEL CLAMPS.
19. POTHOLE AND VERIFY SIZE, LOCATION AND INVERT ELEVATIONS OF EXISTING UTILITY LINE BEFORE ANY UTILITY CONSTRUCTION, OR ORDERING ANY STORM DRAIN STRUCTURES. NOTIFY ENGINEER OF RESULTS FOR POSSIBLE ADJUSTMENTS OF STORM DRAIN LAYOUT AND OR INVERT ELEVATIONS.
20. RAISE FIRE HYDRANT TO FINISHED GRADE WITH FLANGED DIP PIPE EXTENSION. SEE DETAIL SHEET C9 FOR DIMENSIONS.
21. INSTALL 4" SIDEWALK DRAIN PER DETAIL SHEET C9.
22. SDDI SHALL HAVE A GALVANIZED STEEL BOLT DOWN 12"x 12" ATRIUM GRATE.
23. INSTALL 4" MITERED DRAIN INLET (MODEL NO. 4MD3P) AT THE END OF THE 4" DIAMETER PVC SDR-35 STORM DRAIN, PER DETAIL SHEET C9.
24. INSTALL WATER LINE GATE VALVE BOX, PER DETAIL SHEET C9. SET TOP OF BOX TO FINISHED GRADE.
26. BACKFILL STORM DRAIN TRENCH WITH CALTRANS CDF BACKFILL. STOP CDF BACKFILL AT PROPOSED ROAD SUBGRADE ELEVATION.
28. REMOVE EXISTING PIV AND FDC AND PIPE UP TO EXISTING TEE TO THE SOUTH. INSTALL BOLT ON BLIND FLANGE ON TEE.

SEE SHEET C4

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REGISTERED PROFESSIONAL ENGINEER — PAUL A. BARTKOWSKI — No. 40512 — Exp. 3-31-18 — CIVIL — STATE OF CALIFORNIA — 11-01-17

Parkway Heights Middle School

Modernization - Phase 2

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South San Francisco Unified School District

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116522
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REVISIONS

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DRAWING SCALE:	1"= 10'
PTN:	69070-97

CONSTRUCTION DOCUMENTS
11/02/2017

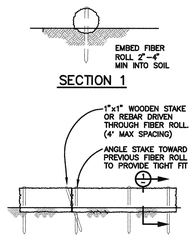
SHEET TITLE

UTILITY PLAN

SHEET NUMBER

C5

11-08-17 gleason \3874\dwg\3874 05\3874.05-BASE-PHASE 2.dwg TAB: C5 UTIL



SECTION 1

NOTES

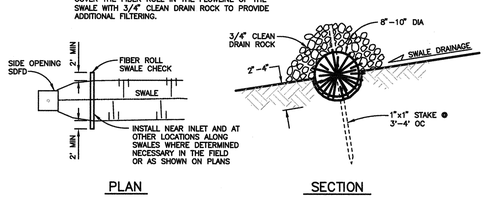
1. THE FIBER ROLLS SHALL BE PLACED ON SLOPE CONTOUR.
2. FIBER ROLLS TO BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING. USE STRAW, ROCKS, OR FILTER FABRIC TO FILL GAPS BETWEEN THE FIBER ROLLS AND TAMP THE BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND FIBER ROLLS.

FIBER ROLL

NOT TO SCALE

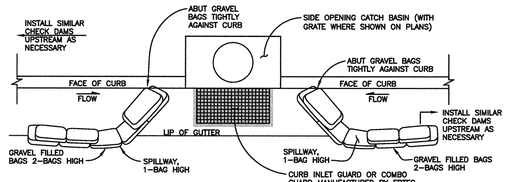
NOTE

1. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 2"-4" DEEP, DUG ON A "V" PATTERN INTO THE SIDES AND BOTTOM OF THE SWALE. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL. COVER THE FIBER ROLL IN THE FLOWLINE OF THE SWALE WITH 3/4" CLEAN DRAIN ROCK TO PROVIDE ADDITIONAL FILTERING.



FIBER ROLL SWALE CHECK

NOT TO SCALE

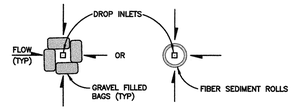


CATCH BASIN PROTECTION – AT SUMP

NOT TO SCALE

LEGEND

- FR — FIBER ROLL, PER DETAIL THIS SHEET
- MINOR INLET PROTECTION, PER DETAIL THIS SHEET
- FIBER ROLL SWALE CHECK, PER DETAIL THIS SHEET
- CATCH BASIN PROTECTION, PER DETAIL THIS SHEET



MINOR INLET PROTECTION

NOT TO SCALE

PAVEMENT STRUCTURAL SECTION

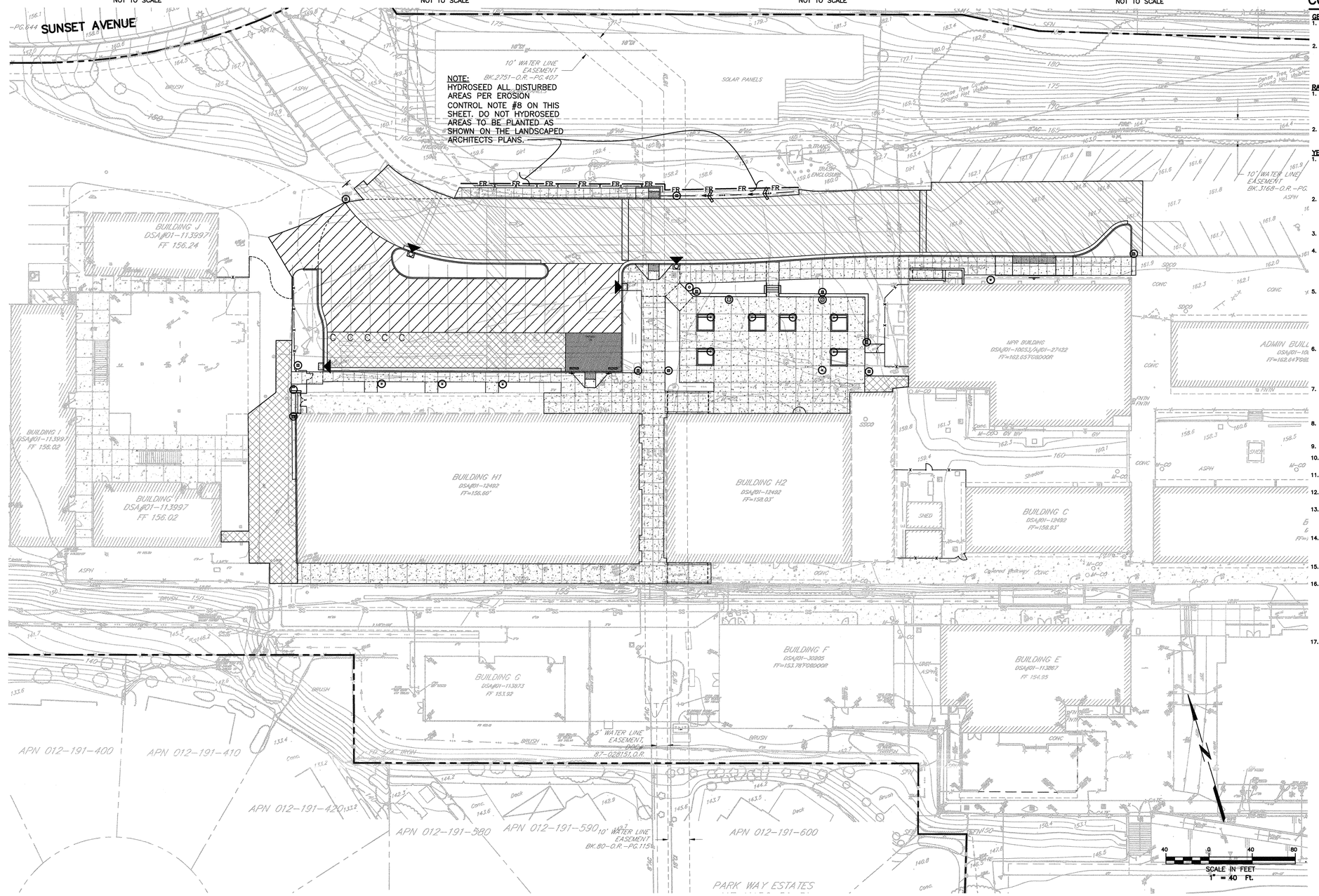
LOCATION	AC*	CL2 AB**	PCC***
DRIVE AISLE FIRE LANE / BUS LANE SEE NOTE ****	0.29'	0.83'	–
PARKING AISLE SEE NOTE ****	0.25'	0.67'	–
PARKING STALLS SEE NOTE ****	0.21'	0.63'	–
CONCRETE (PEDESTRIAN) PER DETAIL, SHEET C8	–	0.33'	0.42'
CONCRETE (VEHICULAR) PER DETAIL, SHEET C8	–	0.50'	0.50'

* TYPE A 1/2 MAX MEDIUM ASPHALT

** COMPACTED TO 95% RELATIVE COMPACTION

*** SEE CIVIL CONCRETE SPECIFICATIONS FOR CONCRETE MIX REQUIREMENTS

**** NOTE: A SEAL COAT (2 COATS WITH SAND, 2 COATS WITHOUT SAND) SHALL BE APPLIED TO ALL NEW ASPHALT SURFACES. SEE CIVIL SPECIFICATIONS FOR MORE DETAIL.



EROSION PREVENTION AND SEDIMENT CONTROL NOTES

GENERAL

1. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING STORM WATER POLLUTION GENERATED FROM THE CONSTRUCTION SITE YEAR ROUND. WORK SITES WITH INADEQUATE EROSION AND SEDIMENT CONTROL MAY BE SUBJECT TO A STOP WORK ORDER.
2. AT ALL TIMES THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH THE STATE OF CALIFORNIA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY. CONSTRUCTION ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO CLEARING, GRADING, EXCAVATION, STOCKPILING, AND RECONSTRUCTION OF EXISTING FACILITIES INVOLVING REMOVAL AND REPLACEMENT.

RAINY SEASON OPERATIONS

1. THE CONTRACTOR MUST IMPLEMENT AN EFFECTIVE COMBINATION OF EROSION PREVENTION AND SEDIMENT CONTROL ON ALL DISTURBED AREAS DURING THE RAINY SEASON (OCTOBER 15 – APRIL 15). STORM WATER BMPS REFERENCED OR DETAILED IN THE PERMIT AUTHORITY'S BEST MANAGEMENT PRACTICES GUIDE SHALL BE IMPLEMENTED AND FUNCTIONAL ON THE SITE AT ALL TIMES
2. THE AREA OF ERODIBLE LAND EXPOSED AT ANY ONE TIME DURING THE WORK SHALL NOT EXCEED 1 ACRE OR 20% OF THE PERMITTED WORK AREA, WHICHEVER IS GREATER, AND THE TIME OF EXPOSURE SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE.

YEAR ROUND REQUIREMENTS

1. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR BEFORE FORECASTED STORM EVENTS AND AFTER STORM EVENTS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT HAVE FAILED OR ARE NO LONGER EFFECTIVE SHALL BE PROMPTLY REPLACED. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
2. THE LIMITS OF GRADING SHALL BE DEFINED AND MARKED ON SITE TO PREVENT DAMAGE TO SURROUNDING VEGETATION. PRESERVATION OF EXISTING VEGETATION SHALL OCCUR TO THE MAXIMUM EXTENT PRACTICABLE. ANY EXISTING VEGETATION WITHIN THE LIMITS OF GRADING THAT IS TO REMAIN UNDISTURBED BY THE WORK SHALL BE IDENTIFIED AND PROTECTED FROM DAMAGE BY MARKING, FENCING, OR OTHER MEASURES.
3. CHANGES TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN MAY BE MADE TO RESPOND TO FIELD CONDITIONS AND SHALL BE NOTED ON THE PLAN.
4. DISCHARGES OF POTENTIAL POLLUTANTS FROM CONSTRUCTION SITES SHALL BE PREVENTED USING SOURCE CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT, TRASH, NUTRIENTS, PATHOGENS, PETROLEUM HYDROCARBONS, METALS, CONCRETE, CEMENT, ASPHALT, LIME, PAINT, STAINS, GLUES, WOOD PRODUCTS, PESTICIDES, HERBICIDES, CHEMICALS, HAZARDOUS WASTE, SANITARY WASTE, VEHICLE OR EQUIPMENT WASH WATER, AND CHLORINATED WATER.
5. ENTRANCE(S) TO THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF POTENTIAL POLLUTANTS OFFSITE. POTENTIAL POLLUTANTS DEPOSITED ON PAVED AREAS WITHIN THE COUNTY RIGHT-OF-WAY, SUCH AS ROADWAYS AND SIDEWALKS, SHALL BE PROPERLY DISPOSED OF AT THE END OF EACH WORKING DAY OR MORE FREQUENTLY AS NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING CONSTRUCTION VEHICLES LEAVING THE SITE ON A DAILY BASIS TO PREVENT DUST, SILT, AND DIRT FROM BEING RELEASED OR TRACKED OFFSITE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AT THE END OF EACH WORKING DAY OR MORE OFTEN AS NECESSARY.
6. ALL DISTURBED AREAS SHALL BE PROTECTED BY USING EROSION PREVENTION MEASURES TO THE MAXIMUM EXTENT PRACTICABLE, SUCH AS ESTABLISHING VEGETATION COVERAGE, HYDROSEEDING, STRAW MULCH, GEOTEXTILES, PLASTIC COVERS, BLANKETS OR MATS. TEMPORARY OR PERMANENT REVEGETATION SHALL BE INSTALLED AS SOON AS PRACTICAL AFTER VEGETATION REMOVAL BUT IN ALL CASES PRIOR TO OCTOBER 15. PRIOR TO FINAL INSPECTION, ALL DISTURBED AREAS SHALL BE REVEGETATED OR LANDSCAPING SHALL BE INSTALLED.
7. WHENEVER IT IS NOT POSSIBLE TO USE EROSION PREVENTION MEASURES ON EXPOSED SLOPES, SEDIMENT CONTROL DEVICES SUCH AS FIBER ROLLS AND SILT FENCES SHALL BE INSTALLED TO PREVENT SEDIMENT MIGRATION. FIBER ROLLS AND SILT FENCES SHALL BE TRENCHED AND KEYED INTO THE SOIL AND INSTALLED ON CONTOUR. SILT FENCES SHALL BE INSTALLED APPROXIMATELY 2 TO 5 FEET FROM TOE OF SLOPE.
8. HYDROSEEDING AND MIX REQUIREMENTS PER CIVIL SPECIFICATION SECTION 32 92 13.10 HYDROSEEDING.
9. DUST CONTROL SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION.
10. STORM DRAIN INLETS SHALL BE PROTECTED FROM POTENTIAL POLLUTANTS UNTIL DRAINAGE CONVEYANCE SYSTEMS ARE FUNCTIONAL AND CONSTRUCTION HAS BEEN COMPLETED.
11. ENERGY DISSIPATERS SHALL BE INSTALLED AT STORM DRAIN OUTLETS WHICH MAY CONVEY EROSIVE STORM WATER FLOW.
12. SOIL, MATERIAL STOCKPILES, AND FERTILIZING MATERIAL SHALL BE PROPERLY PROTECTED TO MINIMIZE SEDIMENT AND POLLUTANT TRANSPORT FROM THE CONSTRUCTION SITE.
13. SOLID WASTE, SUCH AS TRASH, DISCARDED BUILDING MATERIALS AND DEBRIS, SHALL BE PLACED IN DESIGNATED COLLECTION AREAS OR CONTAINERS. THE CONSTRUCTION SITE SHALL BE CLEARED OF SOLID WASTE DAILY OR AS NECESSARY. REGULAR REMOVAL AND PROPER DISPOSAL SHALL BE COORDINATED BY THE CONTRACTOR.
14. A CONCRETE WASHOUT AREA, SUCH AS A TEMPORARY PIT, SHALL BE DESIGNATED TO CLEAN CONCRETE TRUCKS AND TOOLS. AT NO TIME SHALL CONCRETE PRODUCTS AND WASTE BE ALLOWED TO ENTER COUNTY WATERWAYS SUCH AS CREEKS OR STORM DRAINS. NO WASHOUT OF CONCRETE, MORTAR MIXERS, OR TRUCKS SHALL BE ALLOWED ON SOIL.
15. APPROPRIATE VEHICLE STORAGE, FUELING, MAINTENANCE, AND CLEANING AREAS SHALL BE DESIGNATED AND MAINTAINED TO PREVENT DISCHARGE OF POLLUTANTS.
16. ALL GRADED AREAS AND EXPOSED SOIL WITHIN THIS PROJECT NOT OTHERWISE PROPOSED TO BE COVERED WITH HARD SURFACES, BUILDINGS, OR LANDSCAPING SHALL BE COVERED WITH BLOWN AND PUNCHED STRAW MULCH AT THE RATE OF (2) TONS PER/ACRE. STRAW SHALL BE APPLIED BY OCTOBER 15TH TO ALL GRADED CUT AND FILL SLOPES WITHIN THE PROJECT THAT HAVE NOT BEEN LANDSCAPED. STORM WATER SHALL NOT BE ALLOWED TO FLOW DIRECTLY DOWN UNPROTECTED SLOPES. ENERGY DISSIPATING STRUCTURES AND EROSION CONTROL DEVICES SHALL BE PLACED AT ALL DRAINAGE OUTLETS WHICH DISCHARGE TO NATURAL CHANNELS. ALL SEDIMENT TRAPS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME THAT VEGETATIVE COVER IS ESTABLISHED.
17. THIS PROJECT DISTURBS MORE THAN ONE ACRE AND CONCURRENTLY HAS A NOTICE OF INTENT FROM THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL PROVIDE THE INFORMATION TO THE OWNER FOR PREPARING A NOTICE OF INTENT (NOI) AS NEEDED. THE OWNER WILL SUBMIT THE NOI TO THE STATE DEPARTMENT OF WATER RESOURCES AND PREPARE THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THIS PROJECT IS A RISK LEVEL 2 PROJECT, THE CONTACTOR SHALL FOLLOW ALLOW RISK LEVEL 2 SWPPP REQUIREMENTS. THE CONTRACTOR SHALL ASSIGN A QSP TO THE PROJECT; THIS PERSON SHALL MEET ALL QSP REQUIREMENTS AS STATED IN THE STATE'S GENERAL STORMWATER PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE SWPPP AND ALL RISK LEVEL REQUIREMENTS, INCLUDING ALL SAMPLING AND RECORD KEEPING. THE CONTRACTOR SHALL KEEP A COPY OF THE SWPPP AT THE JOBSITE AT ALL TIMES AND MAKE THE PLAN AVAILABLE TO THE OWNER, ENGINEER AND STATE OF CALIFORNIA REPRESENTATIVES FOR THEIR USE. THE CONTRACTOR SHALL COMPLY WITH ALL TERMS OF THE SWPPP AND THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) ORDER NO. 2009-009-DWQ, NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. CAS000002 IN A TIMELY FASHION AND WITH NO ADDITIONAL COMPENSATION THEREFORE. THE SWPPP SHALL INCLUDE AS A STANDARD COMPLIANCE REFERENCE THE LATEST EDITION OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATES STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK. THE SWPPP SHALL INCLUDE BUT NOT BE LIMITED TO SPECIFIC REFERENCES TO MANAGEMENT PRACTICES REQUIRED TO OPERATE THE EROSION CONTROL PLAN INCLUDED IN THE PROJECT DRAWINGS, DEWATERING ; CONSTRUCTION NEAR WATER COURSES, MATERIAL USED AND STORAGE, EXCAVATION, SEDIMENT CONTROL, TRENCHING, USE AND STOCKPILING OF COLD PATCH ASPHALT, TEMPORARY STOCKPILING OF TRENCH SPOILS AND EARTHEN MATERIALS AND PILE DRAWINGS.

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PTN:	69070-97

CONSTRUCTION DOCUMENTS

11/02/2017

SHEET TITLE

PAVEMENT STRUCTURAL SECTION & EROSION CONTROL PLAN

SHEET NUMBER

C6

10-17-17 gleason \3874\dwg\3874 05\3874.05-BASE-PHASE 2.dwg TAB: C5 PAVE EROS

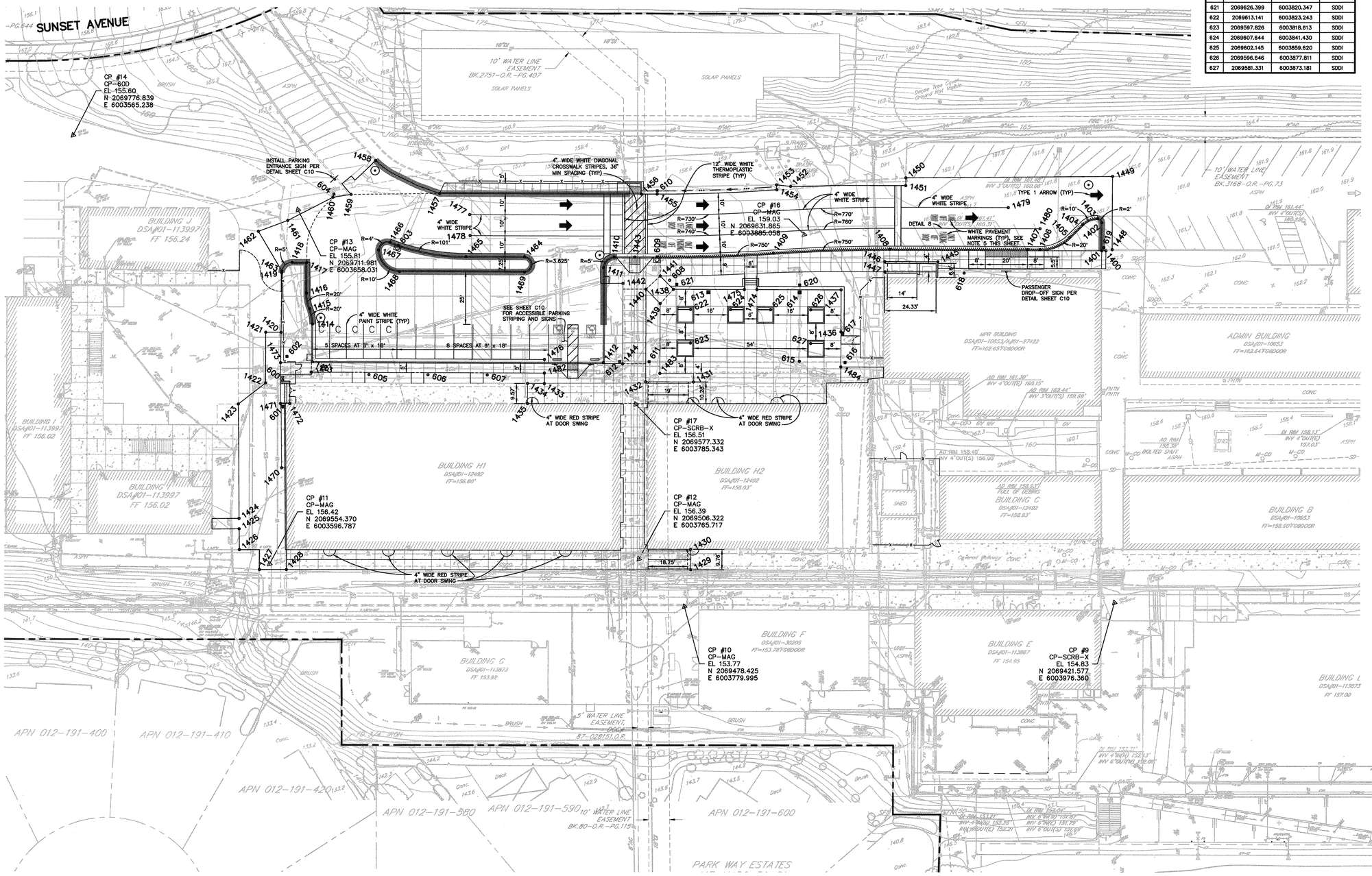
SIGNING AND STRIPING NOTES

1. ALL CURBS (TOP AND SIDES) ADJACENT TO FIRE LANES SHALL BE PAINTED RED WITH RED CURB PAINT. THE WORDS "FIRE LANE" SHALL BE STENCILED ON THE TOP OF ALL RED PAINTED CURBS AT MAXIMUM INTERVALS OF 100'. LETTERING SHALL BE 3" HIGH AND HAVE 3/4" STROKE.
2. ALL PARKING STRIPING SHALL BE 4" WIDE WHITE PAINT, EXCEPT AT ADA STALLS WHERE BLUE IS REQUIRED BY CODE, PER DETAIL SHEET C10.
3. SIGN DESIGNATIONS AND PAVEMENT MARKINGS ARE PER THE 2012 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. ALL SIGNS SHALL BE MOUNTED ON SIGN POST PER DETAIL SHEET C10.
5. ALL PAVEMENT MARKING LETTERING SHALL BE STENCILED 18" HIGH WHITE LETTERS.
6. PARKING STALL STRIPING SHALL BE 4" WIDE AND WHITE. SPACING AND LENGTH AS SHOWN ON THE PLAN VIEW.
7. PAVEMENT MARKINGS AND TRAFFIC LINE DETAILS REFERENCE NUMBERS ARE SHOWN ON CALTRANS STD PLANS SHEETS A20–A, A20–B AND A20–C.

LEGEND

- TYPE 1 ARROW (WHITE PAINT) PER 2012 CALIFORNIA MUTCD.
- C — INDICATES COMPACT PARKING STALL – PAINT "COMPACT" IN 12" HIGH LETTERS IN WHITE PAINT
- BLUE RETROACTIVE FIRE HYDRANT PAVEMENT MARKER
- RED CURB WHERE SHOWN ON PLANS, SEE NOTE 1 THIS SHEET
- WHITE (UNLOADING ZONE) PAINTED CURB, TOP AND FACE OF CURB

SEE THIS SHEET FOR LAYOUT COORDINATE TABLES



SD STRUCTURE COORDINATE TABLE

NO	NORTHING	EASTING	TYPE
600	2069636.394	6003627.841	SDDI
601	2069624.177	6003624.145	SDDI
602	2069646.651	6003633.044	SDDI
603	2069682.127	6003698.868	SDCB
604	2069714.223	6003676.479	SDDI
605	2069627.239	6003667.886	SD MITER
606	2069619.117	6003694.753	SD MITER
607	2069610.981	6003721.669	SD MITER
608	2069629.290	6003817.702	SDCO
609	2069641.560	6003815.034	SDCB/EC
610	2069671.714	6003824.143	SDDI
611	2069594.945	6003797.246	SDDI
612	2069599.030	6003783.726	SDDI
613	2069618.540	6003833.663	SDDI
614	2069606.100	6003875.160	SDDI
615	2069574.738	6003865.675	SDCO
616	2069567.896	6003886.354	SDDI
617	2069581.273	6003889.202	SDDI
618	2069592.430	6003952.662	SD MITER
619	2069585.047	6004019.831	SDDI
620	2069609.439	6003876.173	SDDI
621	2069626.399	6003820.347	SDDI
622	2069613.141	6003823.243	SDDI
623	2069597.826	6003818.613	SDDI
624	2069607.644	6003841.430	SDDI
625	2069602.145	6003859.620	SDDI
626	2069596.646	6003877.811	SDDI
627	2069581.331	6003873.181	SDDI

LAYOUT COORDINATE TABLE

NO	NORTHING	EASTING	TYPE
1400	2069583.320	6004020.354	AP
1401	2069583.899	6004018.439	AP
1402	2069596.693	6004022.305	BC
1403	2069599.188	6004020.969	PCC
1404	2069598.428	6004013.353	EC
1405	2069594.335	6004005.717	BC
1406	2069592.818	6003990.485	EC
1407	2069594.549	6003984.756	AP
1408	2069613.469	6003922.141	BC
1409	2069627.520	6003868.569	PRC
1410	2069647.465	6003795.491	BC
1411	2069844.128	6003789.259	EC
1412	2069600.779	6003776.155	AP
1413	2069640.760	6003643.891	AP
1414	2069657.990	6003649.099	BC
1415	2069665.345	6003649.847	PRC
1416	2069672.820	6003650.632	EC
1417	2069686.821	6003654.864	AP
1418	2069688.833	6003648.208	BC
1419	2069685.493	6003641.976	EC
1420	2069658.484	6003633.642	AP
1421	2069660.606	6003626.587	AP
1422	2069637.446	6003619.633	AP
1423	2069631.605	6003604.424	AP
1424	2069579.298	6003589.152	AP
1425	2069574.584	6003587.800	AP
1426	2069565.040	6003585.062	AP
1427	2069553.213	6003591.462	AP
1428	2069549.527	6003603.758	AP
1429	2069494.342	6003787.883	AP
1430	2069503.693	6003790.586	AP
1431	2069579.646	6003814.684	AP
1432	2069586.228	6003792.911	AP
1433	2069599.298	6003746.494	AP
1434	2069601.657	6003738.849	AP
1435	2069592.485	6003736.111	AP
1436	2069582.424	6003888.660	AP
1437	2069601.568	6003894.444	AP
1438	2069624.617	6003818.164	AP
1439	2069619.982	6003810.167	AP
1440	2069628.396	6003805.658	AP
1441	2069632.487	6003813.946	AP
1442	2069634.219	6003795.927	AP
1443	2069644.614	6003804.928	RAMP
1444	2069597.638	6003784.869	AP
1445	2069601.201	6003942.286	AP
1446	2069608.481	6003918.195	AP
1447	2069603.814	6003916.852	AP
1448	2069582.960	6004023.379	AP
1449	2069616.352	6004033.469	AP
1450	2069643.910	6003939.117	AP
1451	2069640.344	6003938.039	AP
1452	2069655.656	6003885.469	AP
1453	2069658.311	6003879.244	AP
1454	2069656.003	6003878.717	AP
1455	2069670.289	6003823.674	EC
1456	2069672.464	6003816.478	AP
1457	2069700.212	6003724.646	AP
1458	2069723.959	6003699.996	AP
1459	2069711.772	6003684.242	AP
1460	2069712.949	6003675.624	AP
1461	2069708.491	6003651.873	AP
1462	2069707.553	6003637.010	AP
1463	2069686.255	6003642.276	AP
1464	2069659.766	6003754.680	AP
1465	2069667.793	6003728.124	BC
1466	2069684.655	6003695.462	PCC
1467	2069682.650	6003689.182	PCC
1468	2069669.990	6003695.802	EC
1469	2069652.826	6003752.582	BC
1470	2069586.602	6003615.447	AP
1471	2069626.064	6003623.646	AP
1472	2069624.769	6003627.956	AP
1473	2069644.659	6003629.267	AP
1474	2069613.139	6003856.149	AP
1475	2069614.875	6003850.406	AP
1476	2069610.306	6003749.821	AP
1477	2069686.484	6003735.504	STRIPE
1478	2069676.846	6003732.828	STRIPE
1479	2069616.343	6003981.777	STRIPE
1480	2069602.391	6003993.377	STRIPE
1481	2069636.119	6003641.966	AP
1482	2069604.084	6003747.941	AP
1483	2069588.143	6003800.542	AP
1484	2069566.471	6003883.835	AP

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REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER BARRETT BRELJE No. 40512 Exp. 3-31-18 CIVIL STATE OF CALIFORNIA

Parkway Heights Middle School

Modernization - Phase 2

650 Sunset Ave
South San Francisco, CA
94080
(SSFUSD #05-17)

South San Francisco Unified School District
398 B Street
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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
DSA APPL NO: 01-116522
AC: PLAN CHK: SS
DATE: NOV 09 2017

REVISIONS

ARCH PROJECT NO: 1277.04/3874.05
DRAWN BY: PIT
DRAWING SCALE: 1"= 20'
PTN: 69070-97
CONSTRUCTION DOCUMENTS
11/02/2017

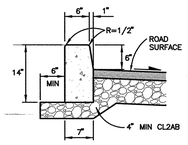
SHEET TITLE

LAYOUT, SIGNING & STRIPING PLAN

SHEET NUMBER

C7

10–17–17 gleason \3874\dwg\3874 05\3874.05–BASE–PHASE 2.dwg TAB: C7 LAYOUT STRIPING

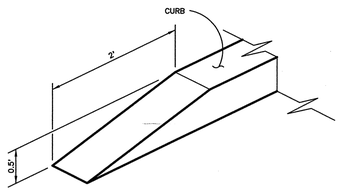


TYPE ① STANDARD VERTICAL CURB

NOT TO SCALE

CURB NOTES

1. CONTROL JOINT SHALL BE 1/8" WIDE x 1-1/2" DEEP IN CURBS AND 1/8" WIDE x 1" IN SIDEWALKS AND BE INSTALLED AT 15' O.C. MAX SPACING.
2. EXPANSION JOINT (60' O.C. MAX SPACING EACH WAY UNLESS NOTED OTHERWISE ON PLAN)
3. MATERIAL FOR EXPANSION JOINT SHALL BE 1/4" THICK PREMOLDED JOINT FILLER AND SHALL EXTEND THROUGH THE FULL THICKNESS OF CONCRETE.
4. EXPANSION JOINTS SHALL BE INSTALLED IN CURB AND GUTTER AT ALL CURB RETURNS AND GUTTER AT ALL CURB RETURNS, AND AT EACH SIDE OF STRUCTURES. THE EXPANSION JOINTS REQUIRED AT 60' INTERVALS MAY BE REPLACED WITH CONTROL JOINTS IF CURB AND GUTTER ARE PLACED WITH AN EXTRUSION MACHINE.



2' CURB TRANSITION

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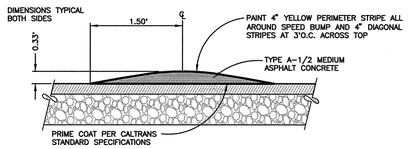

SPEED BUMP

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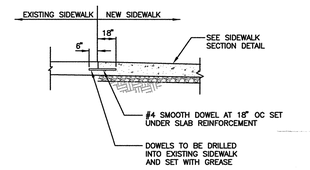
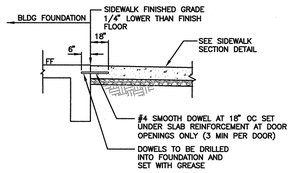


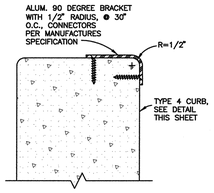
DOWLING AT EXISTING SIDEWALK

NOT TO SCALE



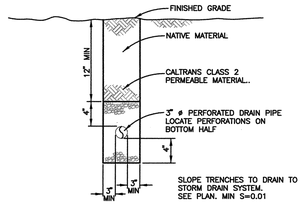
FOUNDATION/SIDEWALK DOWLING AT EX BUILDING DOORWAYS

NOT TO SCALE



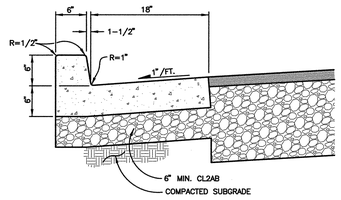
SKATEBOARD DETERRENT

NOT TO SCALE



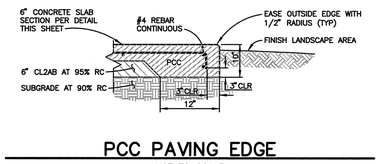
SUBDRAIN

NOT TO SCALE



TYPE ② CURB AND GUTTER

NOT TO SCALE



PCC PAVING EDGE

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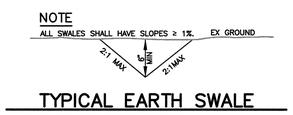
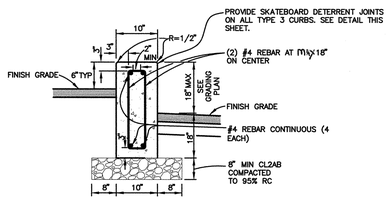


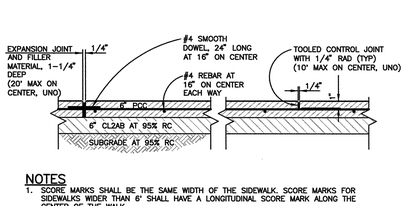
TYPICAL EARTH SWALE

NOT TO SCALE



TYPE ③ 18" HIGH CURB

NOT TO SCALE

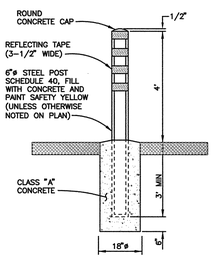


NOTES

1. SCORE MARKS SHALL BE THE SAME WIDTH OF THE SIDEWALK. SCORE MARKS FOR SIDEWALKS WIDER THAN 6' SHALL HAVE A LONGITUDINAL SCORE MARK ALONG THE CENTER OF THE WALK.
2. EXPANSION JOINTS SHALL BE PLACED IN THE SIDEWALK AT THE SAME LOCATION AS THOSE IN THE CURB AND GUTTER WHEN THE SIDEWALK IS ADJACENT TO THE CURB.

VEHICULAR PCC SECTION AND JOINT

NOT TO SCALE



FIXED BOLLARD

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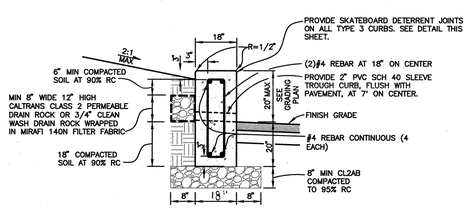
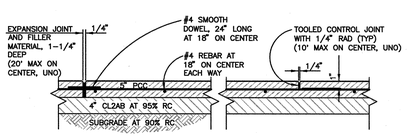


TYPE ④ 18" WIDE CURB

NOT TO SCALE

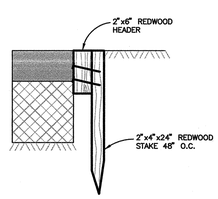


NOTES

1. SCORE MARKS SHALL BE THE SAME WIDTH OF THE SIDEWALK. SCORE MARKS FOR SIDEWALKS WIDER THAN 6' SHALL HAVE A LONGITUDINAL SCORE MARK ALONG THE CENTER OF THE WALK.
2. CONCRETE WALK SHOULD BE DOWELED (WITH 24" LONG SMOOTH DOWEL) 6" DEEP INTO PROPOSED BUILDING FOUNDATIONS ADJACENT TO DOORWAYS AND 6" DEEP INTO CURBS WITH #4 SMOOTH DOWEL @ 18" O.C.
3. EXPANSION JOINTS SHALL BE PLACED IN THE SIDEWALK AT THE SAME LOCATION AS THOSE IN THE CURB AND GUTTER WHEN THE SIDEWALK IS ADJACENT TO THE CURB.

PEDESTRIAN PCC WALK SECTION AND JOINT

NOT TO SCALE



REDWOOD HEADER

NOT TO SCALE

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11/02/2017

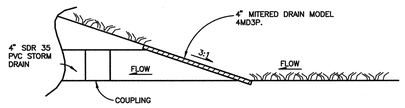
SHEET TITLE

DETAILS

SHEET NUMBER

C8

11-08-17 gleason \3874\dwg\3874 05\3874.05-DETAIL-PHASE 2.dwg TAB: C8 DETAIL



MITERED DRAIN INLET
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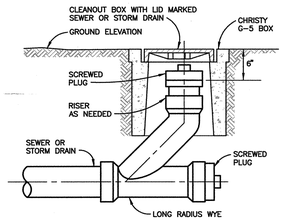
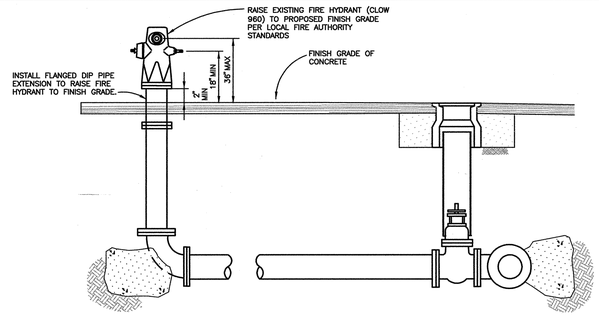
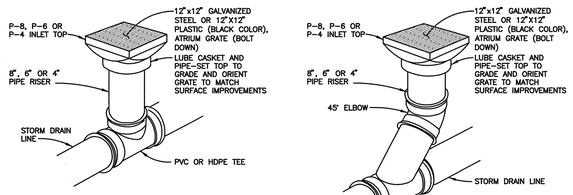


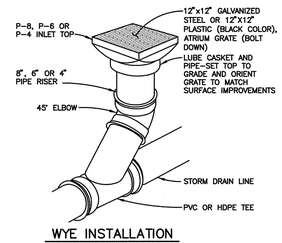
SDCO
NOT TO SCALE



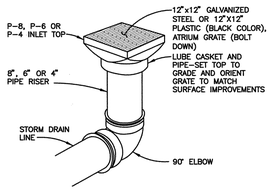
RAISE EXISTING FIRE HYDRANT
NOT TO SCALE



TEE INSTALLATION

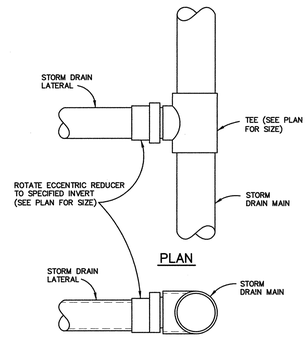


WYE INSTALLATION

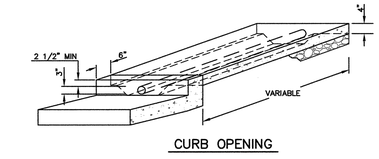


END OF LINE INSTALLATION

SDDI – P4, P6 AND P8
NOT TO SCALE

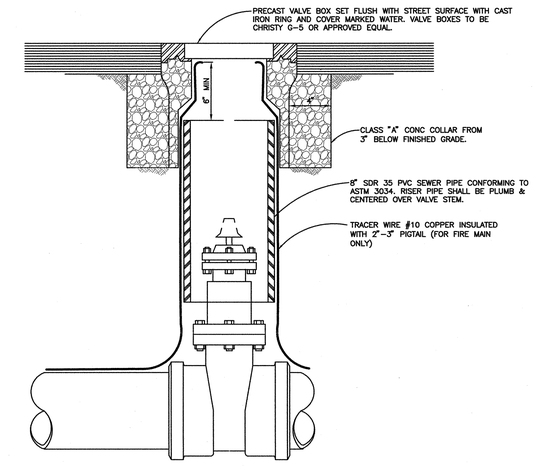


BLIND CONNECTION
NOT TO SCALE



NOTES
1. WIRE MESH SHALL BE 2' WIDE. LENGTH SHALL EQUAL SIDEWALK WIDTH MINUS 4". IF SIDEWALK EXISTING, SEE NOTE.
2. ON SITE DRAINAGE AND LOCATION OF CURB OUTLETS SHALL BE BY THE OWNER TO THE SATISFACTION OF THE TOWN ENGINEER.
3. DRAIN PIPE SHALL BE INSTALLED SO THAT TOP OF PIPE IS 2 1/2" MIN BELOW FINISH GRADE AT BACK OF SIDEWALK.
4. SIDEWALK DRAIN TO BE 4" SCH 40 HEAVY WALL RIGID POLYVINYL CHLORIDE PIPE OR APPROVED SUBSTITUTE.

SIDEWALK DRAIN
NOT TO SCALE



GATE VALVE BOX INSTALLATION
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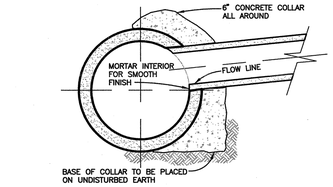

BLIND CONNECTION (NEW SD TO OLD SD)
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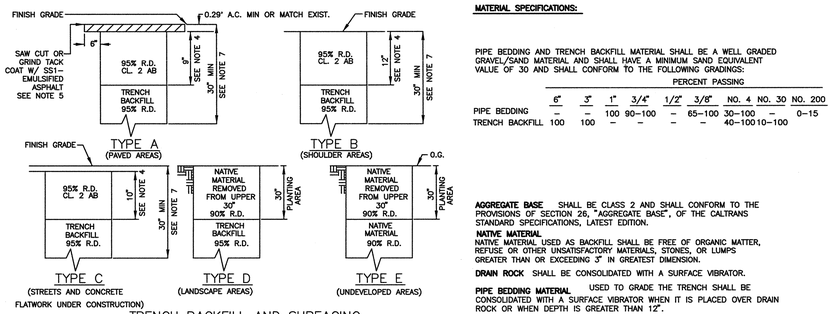

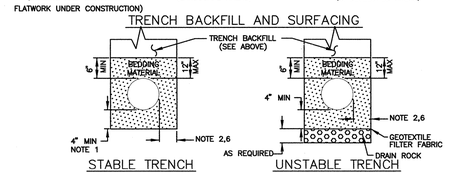

NOTES:
1. 1/4 PIPE O.D. OR 4" MIN WHEN EXCAVATION IS IN ROCKY GROUND.
2. PIPE DIAMETER 18" OR LESS: 6" MIN, 9" MAX PIPE DIAMETER GREATER THAN 18": 9" MIN, 12" MAX
3. RELATIVE COMPACTION DESIGNATED R.C.
4. THE ONSITE STRUCTURAL SECTION SHALL BE 4 MIN OF 0.29' A.C. ON 0.75' A.B. OR MATCH EXISTING PAVEMENT THICKNESS . WITHIN THE PUBLIC RIGHT OF WAY SHALL CONFORM TO CITY OF SOUTH FRANCISCO AND CALIFORNIA WATER COMPANY STANDARDS.
5. NEATLY CUT PAVEMENT SIX INCHES FROM EDGE OF TRENCH AFTER TRENCH IS BACKFILLED.
6. TRENCHING AND BACKFILLING WITHIN THE PUBLIC RIGHT OF WAY SHALL CONFORM WITH CITY OF SOUTH SAN FRANCISCO AND CALIFORNIA WATER COMPANY STANDARDS.
7. PIPE BEDDING MATERIAL SHALL BE COMPACTED TO 90% RELATIVE COMPACTION AND INSTALL IN LIFTS OF NO MORE THAN 4 INCHES THICK.

STANDARD TRENCH DETAILS
NOT TO SCALE

MATERIAL SPECIFICATIONS:

PIPE BEDDING AND TRENCH BACKFILL MATERIAL SHALL BE A WELL GRADED GRAVEL/SAND MATERIAL AND SHALL HAVE A MINIMUM SAND EQUIVALENT VALUE OF 30 AND SHALL CONFORM TO THE FOLLOWING GRADINGS:

	PERCENT PASSING								
	6"	3"	1"	3/4"	1/2"	3/8"	NO. 4	NO. 30	NO. 200
PIPE BEDDING	–	–	100	90–100	–	65–100	30–100	–	0–15
TRENCH BACKFILL	100	100	–	–	–	–	40–100	10–100	–

AGGREGATE BASE SHALL BE CLASS 2 AND SHALL CONFORM TO THE PROVISIONS OF SECTION 26, "AGGREGATE BASE", OF THE CALTRANS STANDARD SPECIFICATIONS, LATEST EDITION.

NATIVE MATERIAL NATIVE MATERIAL USED AS BACKFILL SHALL BE FREE OF ORGANIC MATTER, REFUSE OR OTHER UNSATISFACTORY MATERIALS, STONES, OR LUMPS GREATER THAN OR EXCEEDING 3" IN GREATEST DIMENSION.

DRAIN ROCK SHALL BE CONSOLIDATED WITH A SURFACE VIBRATOR.

PIPE BEDDING MATERIAL USED TO GRADE THE TRENCH SHALL BE CONSOLIDATED WITH A SURFACE VIBRATOR WHEN IT IS PLACED OVER DRAIN ROCK OR WHEN DEPTH IS GREATER THAN 12".

PIPE BEDDING MATERIAL SHALL EITHER BE HAND TAMPED UNDER AND AT THE SIDES OF THE PIPE IN LIFTS NOT GREATER THAN 6" INITIAL PLACEMENT OF BEDDING TO A POINT BETWEEN SPRING-LINE AND TOP OF PIPE, OR SHAPED AND COMPACTED PRIOR TO PIPE INSTALLATION.

GENERAL: THE COMPACTION REQUIREMENTS SHALL BE ACHIEVED UTILIZING METHODS AND EQUIPMENT APPROVED BY THE DISTRICT. ANY METHOD OF COMPACTION WHICH FAILS TO UNIFORMLY ACHIEVE THE REQUIRED LEVELS OF COMPACTION THROUGHOUT THE LENGTH AND DEPTH OF TRENCHES SHALL BE DISCONTINUED. COMPACTION METHODS AND EQUIPMENT SHALL BE SUCH AS NOT TO DAMAGE THE INSTALLED PIPE, EXCEED ITS LOADING CAPACITY, OR DISTURB ITS ALIGNMENT. FLOODING, PONDING, OR THE USE OF DROP HAMMER TYPE COMPACTION EQUIPMENT WILL NOT BE ALLOWED.

MECHANICAL COMPACTION: TRENCH BACKFILL SHALL BE PLACED IN UNIFORM, HORIZONTAL LAYERS NOT EXCEEDING EIGHT (8) INCHES IN THICKNESS BEFORE COMPACTION. EACH LAYER SHALL BE COMPACTED, USING MECHANICAL MEANS, TO THE SPECIFIED DENSITY SHOWN ON THE PLANS.

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REGISTERED PROFESSIONAL ENGINEER — PATRICK K. BARRETT — No. 40512 — Exp. 3-31-18 — CIVIL — STATE OF CALIFORNIA — 11-07-17

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CONSTRUCTION DOCUMENTS
11/02/2017

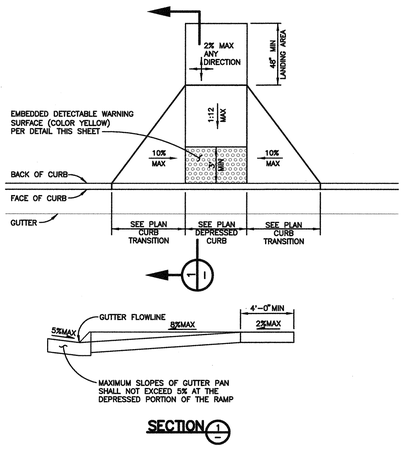
SHEET TITLE

DETAILS

SHEET NUMBER

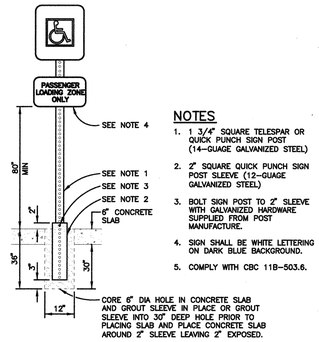
C9

11-08-17 gleason \3874\dwg\3874 05\3874.05-DETAIL-PHASE 2.dwg TAB: C9 DETAIL



PEDESTRIAN RAMP TYPE A

NOT TO SCALE

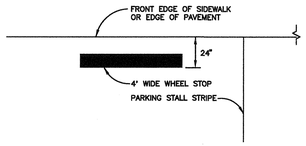


NOTES

1. 1 3/4" SQUARE TELESPAR OR QUICK PUNCH SIGN POST (14-GUAGE GALVANIZED STEEL)
2. 2" SQUARE QUICK PUNCH SIGN POST SLEEVE (12-GUAGE GALVANIZED STEEL)
3. BOLT SIGN POST TO 2" SLEEVE WITH GALVANIZED HARDWARE SUPPLIED FROM POST MANUFACTURE.
4. SIGN SHALL BE WHITE LETTERING ON DARK BLUE BACKGROUND.
5. COMPLY WITH CBC 11B-503.6.

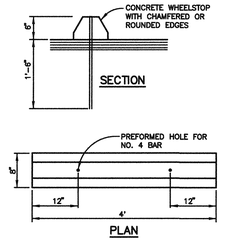
PASSENGER DROP-OFF SIGN

NOT TO SCALE



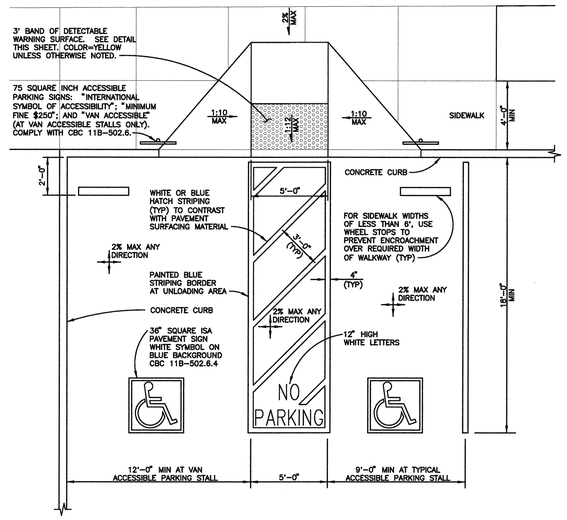
WHEEL STOP LAYOUT

NOT TO SCALE



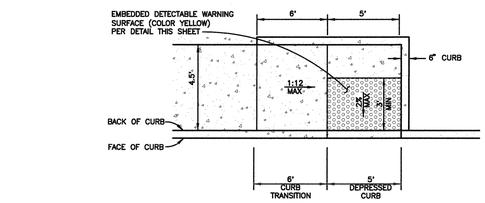
WHEEL STOP

NOT TO SCALE



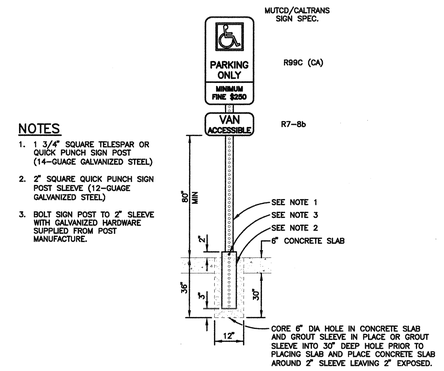
ACCESSIBLE PARKING STALLS

SCALE: 1/4"=1'



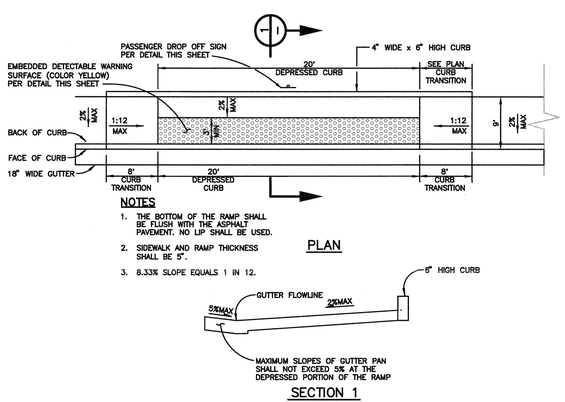
PEDESTRIAN RAMP TYPE B

NOT TO SCALE



ACCESSIBLE PARKING SIGN

NOT TO SCALE



PASSENGER DROP OFF RAMP

NOT TO SCALE

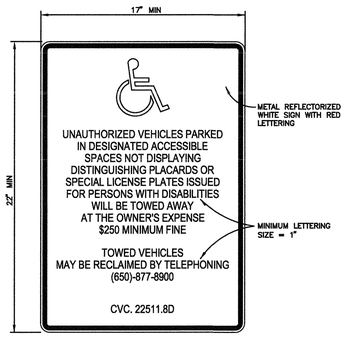
R99C (CA) SIGN

R99B (CA) SIGN

R7-8b SIGN

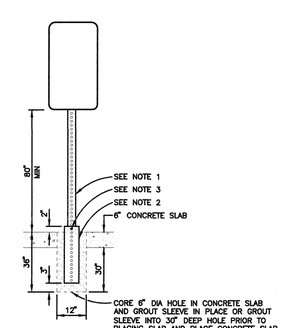
ACCESSIBLE PARKING SIGNS

NOT TO SCALE



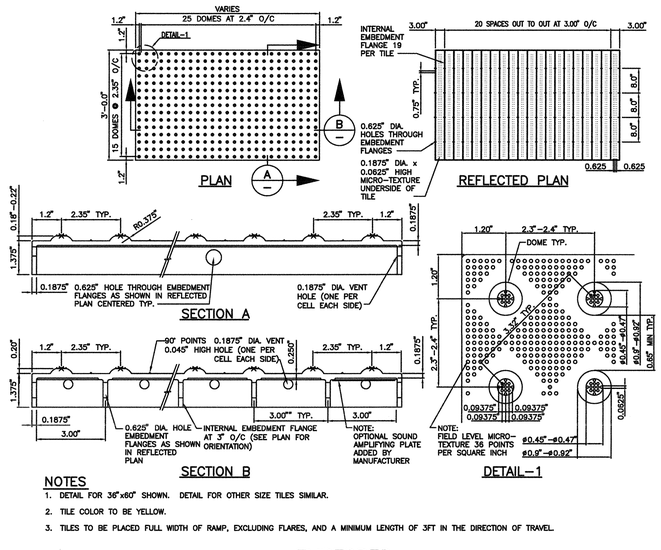
NOTES

1. 1 3/4" SQUARE TELESPAR OR QUICK PUNCH SIGN POST (14-GUAGE GALVANIZED STEEL)
2. 2" SQUARE QUICK PUNCH SIGN POST SLEEVE (12-GUAGE GALVANIZED STEEL)
3. BOLT SIGN POST TO 2" SLEEVE WITH GALVANIZED HARDWARE SUPPLIED FROM POST MANUFACTURE.



PARKING ENTRANCE SIGN

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

QUATTROCCHI KWOK ARCHITECTS
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REGISTERED PROFESSIONAL ENGINEER PAUL T. BARNES No. 40512 Exp. 3-31-18 CIVIL STATE OF CALIFORNIA

Parkway Heights Middle School

Modernization - Phase 2

650 Sunset Ave
South San Francisco, CA
94080
(SSFUSD #05-17)

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CA 94080-4423

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116522
ACC FLS SS WE
DATE NOV 09 2017

REVISIONS

ARCH PROJECT NO:	1277.04/3874.05
DRAWN BY:	PIT
DRAWING SCALE:	AS SHOWN
PTN:	69070-97

CONSTRUCTION DOCUMENTS
11/02/2017

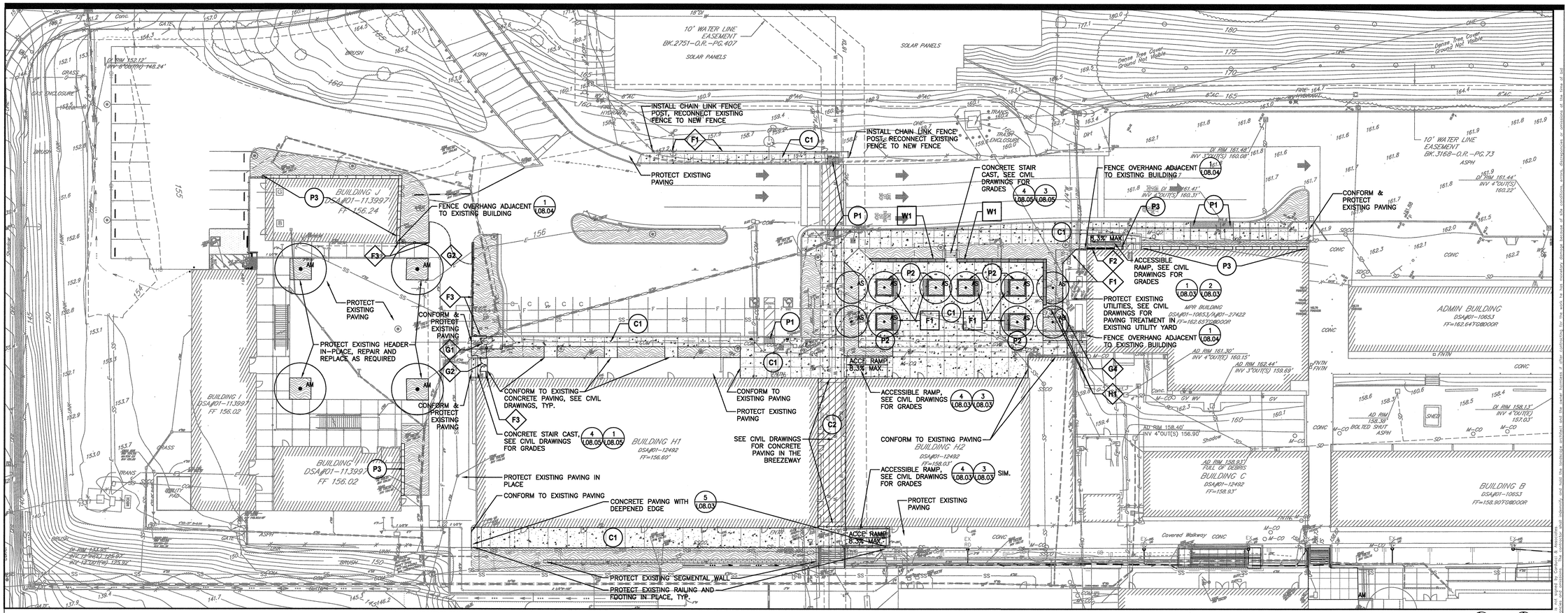
SHEET TITLE

DETAILS

SHEET NUMBER

C10

10-17-17 gleason \3874\dwg\3874 (D)\3874.05-DETAIL-PHASE 2.dwg TAB: C10 DETAIL



PLAN

MATERIALS LEGEND (CONTINUE)

SYMBOL	KEY	DESCRIPTION
		FENCING AND GATE
	F1	6' HIGH MIN. CHAIN LINK FENCE (HOLD TOP OF FENCE LEVEL AT THE UTILITY YARD) (1/L08.02) (2/L08.02)
	F2	GREEN SCREEN MODULAR PANEL: MAKE: GREEN SCREEN SIZE: 4' WIDE BY 6' HIGH & 3" THICK PANEL WITH #5132R MOUNTING CLIPS AND MANUFACTURER MOUNTING OPTIONS ON EXISTING MASONRY WALL. WATER TIGHT SEAL ALL DRILLS @ EXPANSION ANCHORS. PANEL COLOR: MATTE TEXTURE BLACK (1/L08.06) (3/L08.06) (2/L08.06)
	F3	ORNAMENTAL FENCE, SEE ARCHITECTURAL DRAWINGS
	G1	ORNAMENTAL FENCE ACCESSIBLE GATE, SEE ARCHITECTURAL DRAWINGS
	G2	ORNAMENTAL FENCE DOUBLE GATE 6' WIDE, SEE ARCHITECTURAL DRAWINGS
	G3	ORNAMENTAL FENCE DOUBLE GATE 20' WIDE, SEE ARCHITECTURAL DRAWINGS
	G4	CHAIN LINK FENCE MAINTENANCE GATE 4' WIDE WITH PANIC HARDWARE (2/L08.04) (4/L08.04)

MATERIAL NOTES

1. SEE CIVIL DRAWINGS FOR VEHICULAR PAVING, AC PAVING
2. SEE CIVIL DRAWINGS FOR VEHICULAR CONCRETE CURB, CURB RAMP AND TRUNCATED DOMES.
3. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EMERGENCY VEHICULAR ACCESS
4. SEE CIVIL DRAWING FOR GRADING AND DRAINAGE
5. SEE TOPOGRAPHIC SURVEY FOR (E) CONDITIONS
6. SEE ARCHITECTURAL DRAWINGS FOR PATH OF TRAVEL.
7. SEE CIVIL DRAWINGS FOR CONFORMATION TO EXISTING PAVING
8. SEE CIVIL DRAWINGS FOR DEMOLITION AND PROTECTION
9. SEE CIVIL DRAWINGS FOR EXISTING PAVING PROTECTION

PATH OF TRAVEL NOTES

1. BARRIER FREE ACCESS ROUTE WITH FOLLOWING CHARACTERISTICS:
   - A. LESS THAN 1:20 MAXIMUM SLOPE WITHOUT RAMP
   - B. LESS THAN 1:50 MAXIMUM CROSS SLOPE
   - C. NO ABRUPT CHANGES IN LEVEL
   - D. 48" MIN CLEAR IN WIDTH
   - E. NON-SLIP SURFACE
   - F. ACCESSIBLE PATH SHALL HAVE NO ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4".
   - G. CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED IN THIS PROJECT, & THAT PATH OF TRAVEL COMPLIES WITH CBC 1133B.
2. CONSTRUCT ALL PAVED AREAS TO DRAIN

MATERIALS LEGEND

SYMBOL	KEY	DESCRIPTION
		CONC PAVING SERIES
EJ	C1	PEDESTRIAN CONC PAVING COLOR: NATURAL W/ LAMP BLACK (1/L08.01) (2/L08.01) FINISH: MEDIUM BROOM
		CONTROL JOINT
		EXPANSION JOINT (EJ), SEE LAYOUT PLAN
	C2	CONCRETE PAVING IN BREEZEWAY, SEE CIVIL DRAWINGS
	P1	TRUNCATED DOME, SEE CIVIL DRAWINGS
	P2	CONCRETE CURB PLANTER (6/L08.01)
	P3	18" WIDE CONCRETE BAND ADJACENT TO BUILDING @ PLANTING AREA (5/L08.01)
		CONCRETE STAIR WITH HANDRAILS AND CHEEK WALLS, COLOR TO BE NATURAL WITH LAMP BLACK, FINISH: HEAVY BROOM FINISH PERPENDICULAR TO PATH OF TRAVEL. SEE CIVIL DRAWING FOR GRADES (4/L08.05)
		CONCRETE ACCESSIBLE RAMP WITH HANDRAILS, SEE CIVIL DRAWING FOR GRADES (2/L08.03) (3/L08.03)
		PLANTING SERIES
		MULCH
		PLANTING, SEE PLANTING LEGEND AND PLAN
KEY		TREE PLANTING, SEE PLANTING LEGEND AND PLAN
		SITE FURNISHINGS
	F1	BENCH 8'. MAKE: DUMOR, INC. CONTACT ROSS RECREATION (707) 538.3800 MODEL: 35 SERIES WOOD BENCH WITH IPE S4S EE. SIZE: 8' COLOR: TEXTURED SILVER. FINISH: IPE WOOD. SURFACE MOUNT
		ACCESSIBLE SEATING (5/L08.04) (6/L08.04)
		WALL
	W1	18" WIDE CONCRETE WALL, SEE CIVIL DRAWING C.8
		EDGING
	H1	HEADER AT AC (4/L08.01)

LEGEND

SYMBOL	DESCRIPTION
	PROPERTY LINE
	(E) CONDITIONS, SEE TOPOGRAPHIC SURVEY

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SAN FRANCISCO, CA 94133
www.carducciassociates.com

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REGISTERED LANDSCAPE ARCHITECT KATHERINE T. KAY 2824 8.31.2017 08.08.2017 STATE OF CALIFORNIA

QKA16-09

Parkway Heights Middle School

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650 Sunset Ave
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DRAWN BY:	
DRAWING SCALE:	
PTN:	69070-97

DSA BACKCHECK
10/17/17

SHEET TITLE

MATERIALS LEGEND & PLAN

SHEET NUMBER

L01.00

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PLAN

0 20 40 FEET NORTH PLAN NORTH

LAYOUT LEGEND

SYMBOL	DESCRIPTION
℄	CENTER LINE
	CONFORM LINE
CJ EJ CJ	CONTROL JOINT, UON (2 / L8.01) EJ – EXPANSION JOINT GRADE @ EDGE (3 / L8.01) CJ – COLD JOINT WHERE NEW PAVING MEETS (E) PAVING (2 / L8.01)
	ALIGN
	CONFORM
+	CENTER OF ARC
R	RADIUS

LAYOUT NOTES

1. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF DISCREPANCIES PRIOR TO CONTINUANCE OF WORK.
2. DO NOT SCALE OFF OF PLANS.
3. FIELD VERIFY LOCATIONS OF THE UNDERGROUND UTILITIES, CALL USA ALERT (800) 642–2444 AT LEAST 48 HOURS PRIOR TO EXCAVATION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING FACILITIES SHOWN TO REMAIN, INCLUDING ROADS AND OTHER STREET IMPROVEMENTS.
5. ANGLES 90° UNLESS OTHERWISE NOTED. ALIGN CORNERS & INTERSECTIONS TYP UNLESS OTHERWISE NOTED.
6. SEE DETAIL SHEETS AND SPECIFICATIONS FOR MORE INFORMATION.
7. SEE TOPOGRAPHIC SURVEY FOR (E) CONDITIONS
8. PLAN DIMENSIONS ARE ROUNDED TO NEAREST 1/4 INCH.
9. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
10. LANDSCAPE ARCHITECT WILL MAKE CAD FILES AVAILABLE FOR USE BY FIELD ENGINEER UPON REQUEST.

PATH OF TRAVEL NOTES

1. BARRIER FREE ACCESS ROUTE WITH FOLLOWING CHARACTERISTICS:
   - A. LESS THAN 1:20 MAXIMUM SLOPE WITHOUT RAMP
   - B. LESS THAN 1:50 MAXIMUM CROSS SLOPE
   - C. NO ABRUPT CHANGES IN LEVEL
   - D. 48" MIN CLEAR IN WIDTH
   - E. NON–SLIP SURFACE
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2. CONSTRUCT ALL PAVED AREAS TO DRAIN

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REGISTERED LANDSCAPE ARCHITECT DAVID T. LAY No. 2500 8.31.2017 08.08.2017 STATE OF CALIFORNIA

QKA16–09

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10/17/17

SHEET TITLE

LAYOUT LEGEND & PLAN

SHEET NUMBER

L02.00

DRIP IRRIGATION LEGEND

SYMBOL	MODEL NUMBER		MNFR	DESCRIPTION
1 L04.03	DZK-700-1-LF W/ 10888501 (FLOW BETWEEN 0.1 TO 7.9 GPM) DZK-700-1-MF W/ 1088501 (FLOW BETWEEN 8.0 TO 20 GPM)		TORO	700 ULTRAFLOW IN-LINE DRIP ZONE VALVE KITS WITH Y-FILTER, REMOTE CONTROL VALVE, ISOLATION BALL VALVE & MED/LOW FLOW PRESSURE REGULATOR & EFFLUENT VALVE ID TAG
3 L04.03	AS DETAILED		TORO	PVC TO DRIPPERLINE CONNECTION
	1A 1" 1.0 RGP 212-E 12"			VALVE CALLOUT W/ DRIP VALVE INFO: DRIP LINE MODEL, FLOW RATE & LINE SPACING DRIP LINE MODEL # (GPH AND EMITTER SPACING) DRIP LINE SPACING (MAX)
		MAXIMUM LINE RUN LENGTH @ 25PSI:		
2 L04.03 (18" / 12")	RGP-218-E	515'	TORO	0.53 GPH PURPLE DRIPPERLINE WITH ROOTGUARD EMITTERS AT 18" ON CENTER
	RGP-212-E	360'	TORO	0.53 GPH PURPLE DRIPPERLINE WITH ROOTGUARD EMITTERS AT 12" ON CENTER
7 L04.03	AS DETAILED		TORO	DRIPPERLINE TO DRIPPERLINE CONNECTION. USE TORO LOC-EZE FITTINGS COMPATIBLE WITH DRIPPERLINE PIPE. USE THIS CONNECTION AT TIGHT BENDS AND AS INDICATED ON DETAIL DIAGRAM
6 L04.03	YD-500-34		TORO	AIR VACUUM RELIEF VALVE AND BOX PER DETAIL. CROSS-CONNECT ALL DRIPPERLINES TO AVRV WITH BLANK TUBING
5 L04.03	FCH-H-FIPT		TORO	AUTOMATIC FLUSH VALVE ASSEMBLY AND BOX PER DETAIL
4 L04.03	SEE DETAIL		TORO	MANUAL FLUSH VALVE ASSEMBLY AND AUTO-FLUSH VALVE IN BOX PER DETAIL
	10-F-01		NETAFIM	POP-UP FLAG INDICATOR. SET FLUSH WITH FINISH GRADE. INSTALL PER MANUFACTURER'S SPECIFICATIONS. LOCATE AWAY FROM PATHWAYS, AT LOCATIONS DIRECTED BY THE SITE MAINTENANCE PERSONNEL.
	PVC: CLASS 200 SCH 40 UNDER PAVING		PURPLE PIPE TYP	PURPLE NON-PRESSURE LATERAL IRRIGATION PIPE WITH SOLVENT WELD SCHEDULE 40 FITTINGS. 3/4" MIN PIPE SIZE. INSTALL AS COLLECTOR LATERAL FOR ALL WATER THAT HAS PASSED THROUGH DRIPPERLINES

SYMBOL	MODEL NUMBER	MNFR	NOZZLE COLOR	DESCRIPTION	GPM	PSI ■
	BUBBLERS					
6 L04.02	570Z 4P-PRX-COM FB25PC	TORO	BLACK	FULL-CIRCLE FLOOD BUBBLER ON 4" POP-UP WITH PRESSURE REGULATION AND X-FLOW. FLOW AT 0.25 GPM, TYP	0.25	40

HYDROZONE INFORMATION TABLE

REFERENCE ANNUAL ET_O FOR: (NEAREST CITY; WUCOLS IV)	SOUTH SAN FRANCISCO	35.1

ET ADJUSTMENT FACTOR	.65	ET ADJ FACTOR PER MWELO & CALGREEN: 0.65= SCHOOL 0.55= RESIDENTIAL 0.45= NON-RESIDENTIAL	SLA ADDITIONAL WATER ALLOWANCE (1.0-ETAF)	0.35

HYDROZONE	WUCOLS IV PLANT FACTOR (PF)	IRR METHOD DRIP: 0.81 BUBB.: 0.81 SPRAY: 0.75	IRRIGATION EFFICIENCY (IE)	$ETAF_Z$ (PF/IE)	LANDSCAPE AREA (SQ FT)	$ETAF_Z$ X AREA	ESTIMATED TOTAL WATER USE (ETWU)
A9	.3	D	.81	0.37	1347	498.89	10856.82
A10	.3	D	.81	0.37	381	141.11	3070.86
A11	.3	D	.81	0.37	1138	421.48	9172.28
A12	.3	D	.81	0.37	399	147.78	3215.94
A13	.3	D	.81	0.37	921	341.11	7423.26
A14	.3	D	.81	0.37	1226	454.07	9881.56
A15	.3	D	.81	0.37	294	108.89	2369.64
A16	.3	D	.81	0.37	1351	500.37	10889.06
A17	.3	B	.81	0.37	64	23.70	515.84
A18	.3	B	.81	0.37	32	11.85	257.92
A19	.6	B	.81	0.74	18	13.33	290.16
				TOTAL	7057.00	2613.70	56,879.42
SPECIAL LANDSCAPE AREAS							
--				1	0	0.00	0.00
				TOTAL	0	0.00	0.00
	TOTAL LANDSCAPE AREA (LA + SLA)				7,057.00		

TOTAL ETWU	TOTAL ETWU ALL AREAS (SLA AND REGULAR LA)	TOTAL ETWU	56,879.42
MAWA	(ANNUAL ETO)(0.62 CONVERSION FACTOR) [(ET ADJUSTMENT FACTOR)(TOTAL LANDSCAPE AREA) + ((1-ETAF)*SLA))]	MAWA	99,823.38

AVERAGE ETAF	SUM($ETAF_Z$ X AREA) / TOTAL AREA (AVERAGE ETAF AS DESIGNED, EXCLUSIVE OF SLA_E)	0.37
SITEWIDE ETAF	TOTAL ETAF X AREA / TOTAL LANDSCAPE AREA (INCLUDES SLA_E)	0.37

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	MNFR	DESCRIPTION & NOTES
	POINT OF CONNECTION		AT DOWN STEAM OF THE BACK FLOW PREVENTER, STATIC WATER PRESSURE IS 40 PSI; MAXIMUM FLOW IS 29.6 GPM
C	(E) IRRIGATION CONTROLLER	--	EXISTING IRRIGATION CONTROLLER
SEE PLANTING PLAN FOR VALVE LOCATIONS TYP — 1 L04.02	P220SG-26-XX SERIES RCV WITH RWSG-KIT (TPV100 FOR FLOWS UNDER 1 GPM, WITH EFF-KIT-60HZ)	TORO	REMOTE CONTROL VALVE ASSEMBLY W/ OPTIONAL SPIKE GUARD AND EFFLUENT WATER IDENTIFICATION KIT AND BOX. SIZE PER PLAN. TUNE VALVE FOR FLOWS FROM 1-5 GPM. INSTALL PER DETAIL
4 L04.02	LT-####-T LINE SIZE TYP (2" AND SMALLER)	KBI	LO-TORQUE™ SCH 80 PVC THREADED BALL VALVE SHUT-OFF OR ISOLATION VALVE, FOR LINES 2" AND SMALLER
3 L04.02	100-2SLLVC LK - PROVIDE (3) TOTAL 100-MHS - PROVIDE (3) TOTAL 100-SLK - PROVIDE (3) TOTAL	TORO	2-PIECE, 1" SINGLE-LUG RECYCLED WATER QUICK COUPLER VALVE W/ LAVENDER LOCKING COVER KEY FOR LOCKING COVER 1" NPT x 1" MHT HOSE SWIVEL SINGLE LUG KEY, 1" TOP PIPE THREAD OUTLET W/INTERNAL 3/4" NPT THREAD
VALVE BOX LAYOUT — 2 L04.02 PB	CARSON #1419 CHRISTY #N-9 (PAVING)	OLD CASTLE	PULL BOX
5 L04.02			
TRENCHING DETAIL — 2 L04.01	PVC: CLASS 200 SCH 40 UNDER PAVING	--	NON-PRESSURE LATERAL IRRIGATION PIPE WITH SOLVENT WELD SCHEDULE 40 FITTINGS. 3/4" MIN. PIPE SIZE
	PVC: CLASS 315 SCHEDULE 40	--	MAIN PRESSURE IRRIGATION PIPE, SEE SPECS SIZE / MATERIAL 1"-1½" SCH 40 W/SOLVENT WELD SCH 40 FITTINGS 2"-3" CLASS 315 W SOLVENT WELD SCH 40 FITTINGS
	PVC: CLASS 315	--	SLEEVE. SIZE AS REQUIRED
3 L04.01	PVC: SCHEDULE 40 ELECTRICAL CONDUIT	--	ELECTRICAL CONDUIT. SIZE AS REQUIRED. INSTALL PARALLEL TO MAIN LINE UNDER ALL PAVING
1 L04.01		--	NON-PRESSURE LATERAL IRRIGATION PIPE WITH SOLVENT WELD SCHEDULE 40 FITTINGS. 3/4" MIN. PIPE SIZE.
	FLOW SENSOR CABLE	--	FLOW SENSOR ELECTRICAL CONDUIT. SIZE AS REQUIRED. INSTALL PARALLEL TO MAIN LINE UNDER ALL PAVING.

¾" 1" 1¼" 1½" 2" 2½" 3" 3½" — LATERAL SIZING

¾" 1" 1¼" 1½" 2" 2½" 3" — MAINLINE SIZING

SIZE — STATION NUMBER / VALVE SIZE / GPM — GALLONS PER MINUTE

PRESSURE LOSS CALCULATION CHART

ITEMS	PRESSURE LOSS (PSI)
METER	(E)
BFP	(E)
MV/FS	3.3
MAINLINE	0.18
VALVE	3.0
LATERALS	1.14
SUBTOTAL	7.62
FITTINGS (10%)	0.76
TOTAL PSI LOSS FOR VALVES A3, A5, A6 & A7 COMBINE FLOW	**8.38**
TOTAL ENDING PRESSURE AT THE HEADER LINE FOR VALVE A5	**31.62**

EXISTING IRRIGATION PRESSURE

IRRIGATION WATER PRESSURE & FLOW PROVIDED BY THE CIVIL ENGINEER:
STATIC 40 PSI,
EXISTING 2" METER & 2" BFP
FIELD VERIFY DYNAMIC PRESSURE

IRRIGATION NOTES

VALVE BOX SPECIFICATIONS:

1. PLASTIC IRRIGATION VALVE BOXES SHALL BE GREEN COLOR, USE CONCRETE BOXES IN DG & PAVING AREAS AS SHOWN IN THE IRRIGATION DETAILS.
2. IRRIGATION VALVE LOCATIONS ARE SHOWN DIAGRAMMATICALLY ON THE IRRIGATION PLANS. SEE PLANTING PLAN FOR INSTALLATION LOCATIONS, AS WELL AS VALVE BOX LAYOUT DETAIL 5 / L04.02

SPRAY AND GENERAL IRRIGATION NOTES:

1. INSTALL MAIN LINES, LATERAL LINES AND EQUIPMENT IN PLANTING AREAS AND NOT UNDER PAVEMENT EXCEPT WHERE NECESSARY BETWEEN PLANTERS SEPARATED BY PAVEMENT.
2. INSTALL ALL HEADS ADJACENT TO BUILDINGS AT LEAST 18" AWAY FROM THE BUILDING FACE.
3. THE CONTRACTOR SHALL VERIFY THAT THERE IS NO OVERSPRAY ONTO BUILDINGS, WALLS, COLUMNS OR FENCES. ADJUST OR RENOZZLE AS REQUIRED.
4. INSTALL SLEEVES FOR ALL LATERALS UNDER CONCRETE UNLESS SPECIFICALLY NOTED. NO SLEEVES ARE REQUIRED FOR LATERAL LINES UNDER ASPHALTIC CONCRETE, UNLESS OTHERWISE SHOWN ON PLANS.
5. IRRIGATION VALVE LOCATIONS ARE SHOWN DIAGRAMMATICALLY ON THE IRRIGATION PLANS. SEE PLANTING PLAN AND VALVE BOX LAYOUT DETAIL 5 / L04.02 FOR INSTALLATION LOCATIONS.

SUBSURFACE DRIP IRRIGATION NOTES:

1. PROVIDE TEMPORARY SUPPLEMENTAL OVERHEAD IRRIGATION TO ESTABLISH PLANTS.
2. HOLD DRIPPERLINES 18" OFF FACE OF BUILDING, 6" OFF PAVING @ SHRUBS, 2" OFF PAVING @ SOD, TURF & GROUNDCOVER TYP.
3. SPACE DRIPPERLINES EQUALLY WITHIN EACH ZONE UNLESS OTHERWISE NOTED (12" OR 18" O.C. MAX PER LEGEND)
4. FOR SLOPES GREATER THAN 10:1, MODIFY DRIPPERLINE SPACING ON THE BOTTOM 1/3 OF THE SLOPE TO BE 25% GREATER AND OMIT THE DRIPPERLINE AT THE BOTTOM OF SLOPE.
5. DRIP SYSTEMS WITH 12" & 18" EMITTER SPACING HAVE DIFFERENT PRECIPITATION RATES. INDEPENDENTLY TEST AND SET RUN TIMES FOR THESE TWO CONDITIONS.
6. INSTALL AVRV(S) AT HIGH POINT(S) OF EACH PLANTING AREA. AVRV'S ARE SHOWN TO INDICATE INTENT- LOCATE AS REQUIRED BASED ON ACTUAL GRADES OF THE SITE. LOCATE (1) AVRV PER 500' OF DRIPPERLINE TUBING, TYP. SEE DETAIL

IRRIGATION SYSTEM MAINTENANCE

1. SYSTEM OBSERVATION: THE CONTRACTOR SHALL VISUALLY CHECK ALL SYSTEMS FOR PROPER OPERATION ON A WEEKLY BASIS AND MAKE ALL NECESSARY REPAIRS. ALL EQUIPMENT SHALL BE ADJUSTED AS NECESSARY FOR PROPER COVERAGE AND FUNCTION.
2. ESTABLISHMENT IRRIGATION SCHEDULING: FOR THE FIRST 60-DAYS OF PLANTING ESTABLISHMENT AND MAINTENANCE, PROGRAM CONTROLLER IN A PLANTING ESTABLISHMENT IRRIGATION MODE. SCHEDULE IRRIGATION TO ESTABLISH PLANTINGS PER THE SPECIFICATIONS.
3. CLIMATOLOGICALLY CONTROLLED IRRIGATION SCHEDULING: FOR THE LAST 60-DAYS OF PLANTING ESTABLISHMENT AND MAINTENANCE, PROGRAM CONTROLLER TO RUN AUTOMATICALLY, SITE-SPECIFIC CLIMATOLOGICAL EVAPOTRANSPIRATION (ET) DATA. OPTIMIZE AUTOMATIC SCHEDULE AS REQUIRED FOR PLANT MATERIALS, SUN, ASPECT, SOLAR REFLECTANCE & HEAT ISLANDS, LOCALITY, SLOPE, AND THE INSTALLED IRRIGATION SYSTEM. CHECK SYSTEM FOR PROPER FUNCTION AND ADJUST AUTOMATIC SCHEDULE WEEKLY TO PROVIDE OPTIMAL CONDITIONS FOR SUSTAINING HEALTHY PLANTING.
4. MAINTENANCE STAFF TRAINING: PERFORM A FULL INSTRUCTION SESSION IN THE PRESENCE OF THE DESIGNATED MAINTENANCE PERSONNEL DEMONSTRATING THE IRRIGATION CONTROLLER SYSTEM, PROGRAM ADJUSTMENT AND OVER-RIDES, SYSTEM TESTING, TROUBLE-SHOOTING, ETC. INCLUDE INSTRUCTIONS ON HOW TO TURN OFF SYSTEM IN CASE OF EMERGENCY.
5. REPAIRS: DURING THE PLANT ESTABLISHMENT & MAINTENANCE PERIOD, ALL REPAIRS MADE TO THE IRRIGATION SYSTEM SHALL BE AT THE CONTRACTOR'S EXPENSE. ALL REPAIRS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS.
6. SYSTEM CERTIFICATION: OBTAIN A LETTER OF CERTIFICATION FROM CONTROLLER MANUFACTURER'S REPRESENTATIVE CERTIFYING THAT THE CONTROLLER IS PROPERLY PROGRAMMED AND IN WORKING ORDER BEFORE THE END OF THE MAINTENANCE PERIOD.

TITLE 13 WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE:
I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

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DRAWING SCALE:
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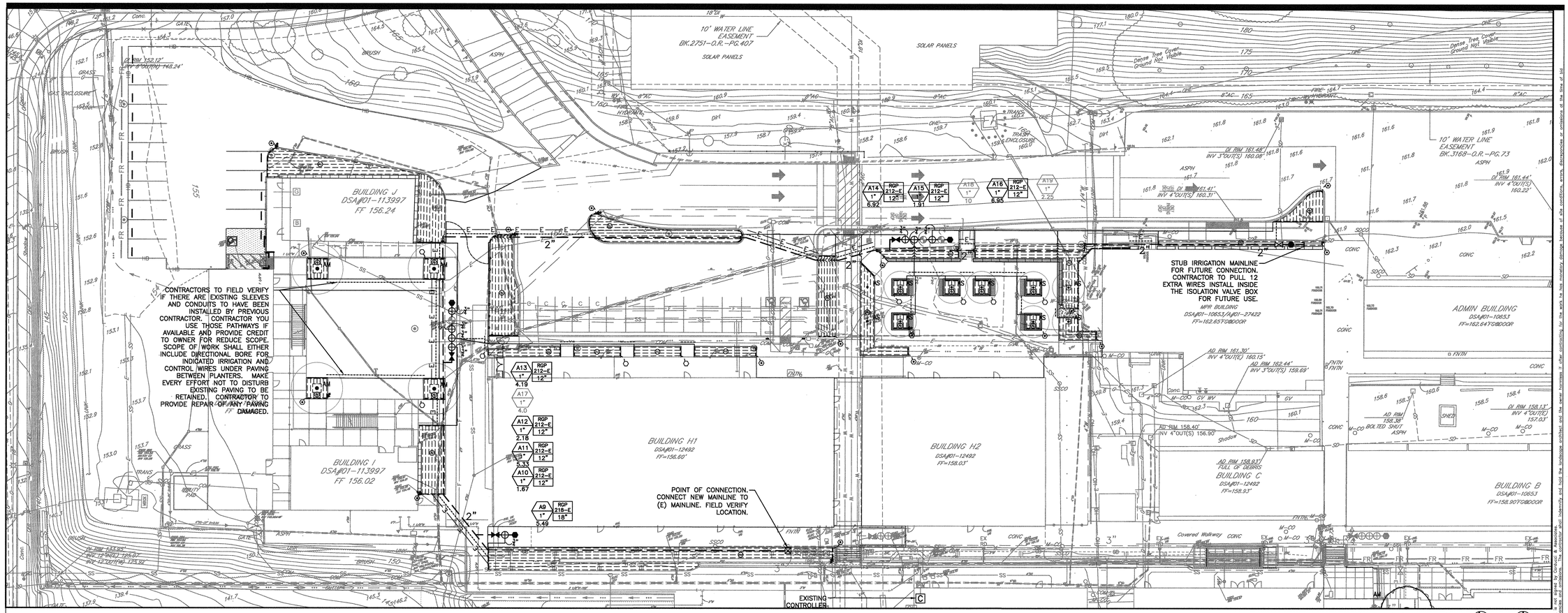
10/17/17

SHEET TITLE

IRRIGATION LEGEND & NOTES

SHEET NUMBER

L03.00



PLAN

TITLE 13 WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE:
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IRRIGATION PLAN

SHEET NUMBER

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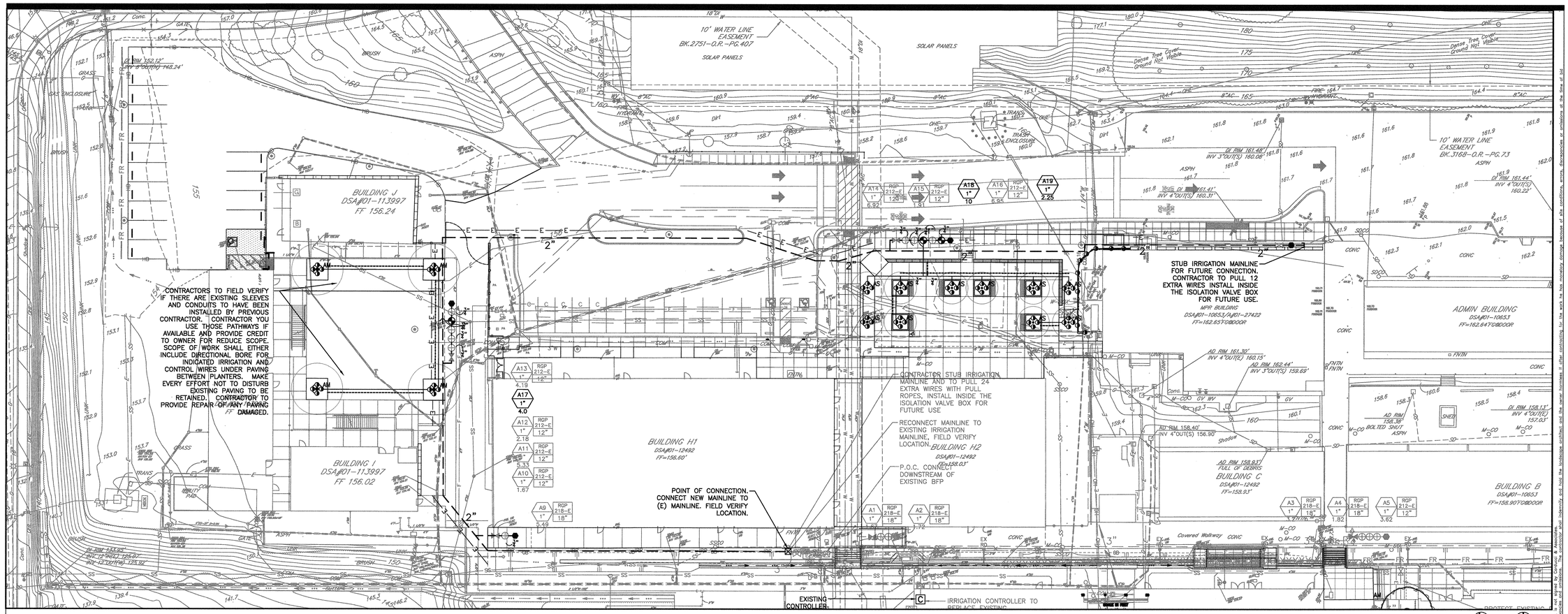

PLAN

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IRRIGATION BUBBLER PLAN

SHEET NUMBER

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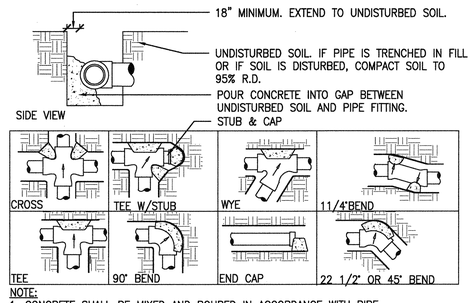
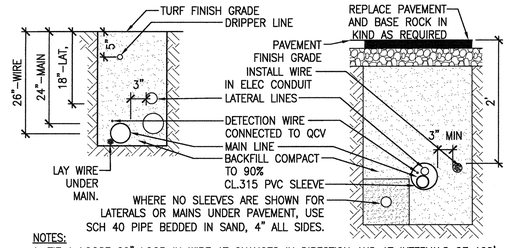
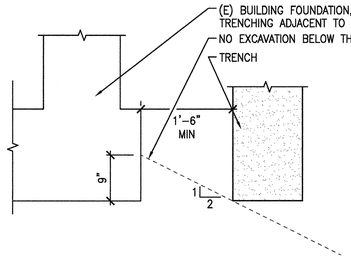


NOTE:
1. CONCRETE SHALL BE MIXED AND POURED IN ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDED STANDS AND SPECIFICATIONS FOR THRUST BLOCKS.
2. KEEP CONCRETE FROM POURING OVER FITTINGS ON TO PIPE.

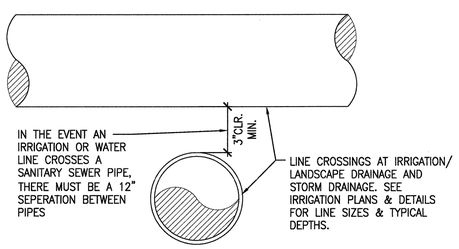
1 THRUST BLOCK
SCALE: 3" = 1'



NOTES:
1. TIE A LOOSE 20" LOOP IN WIRE AT CHANGES IN DIRECTION AND AT INTERVALS OF 100'.
2. INSTALL PIPE, WIRE AND SLEEVES UNDER PAVEMENT PRIOR TO PLACEMENT OF PAVEMENT AND MINIMUM OF 24" DEEP.
3. BUNDLE AND TAPE WIRE AT 10' INTERVALS.
4. SOIL BACKFILL TO BE FREE OF ROCK, DIRT CLODS, AND DEBRIS GREATER THAN 1/2" DIAMETER WITHIN 4" OF PIPE. ALTERNATE: BACKFILL WITH SAND IMPORT.



2 TRENCHING
SCALE: 1" = 1'



3 TYPICAL UTILITY CROSSING
SCALE: 3" = 1'

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IRRIGATION DETAILS

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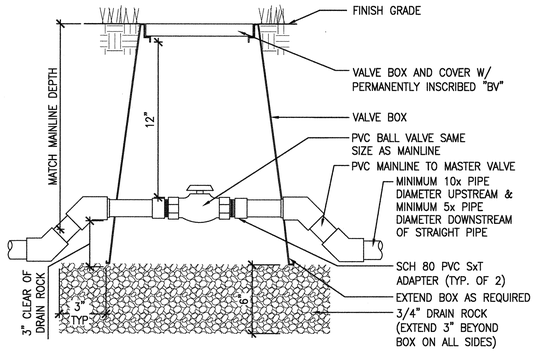
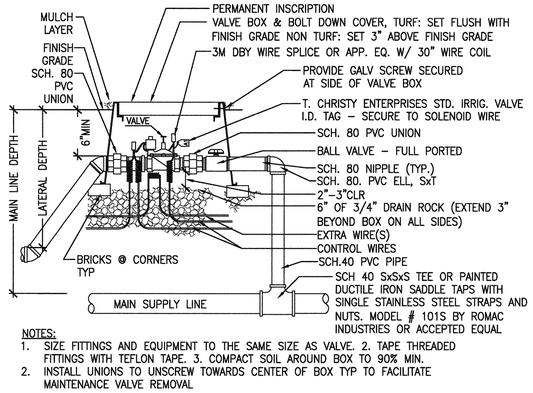
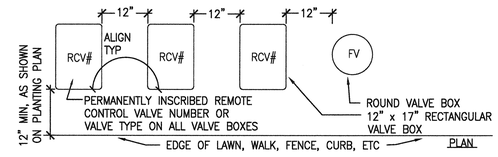


4 ISOLATION VALVE 2 INCH AND SMALLER
SCALE: 3" = 1'



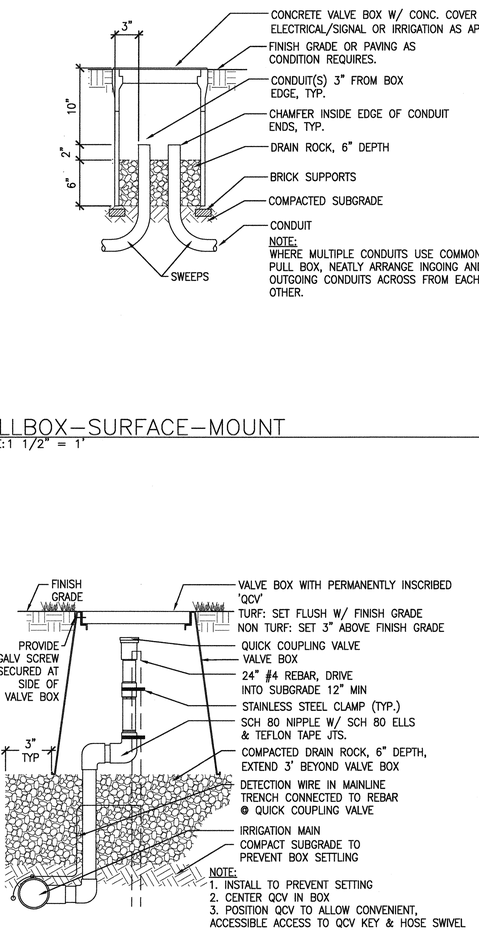
NOTES:
1. SIZE FITTINGS AND EQUIPMENT TO THE SAME SIZE AS VALVE. 2. TAPE THREADED FITTINGS WITH TEFLON TAPE. 3. COMPACT SOIL AROUND BOX TO 90% MIN.
2. INSTALL UNIONS TO UNSCREW TOWARDS CENTER OF BOX TYP TO FACILITATE MAINTENANCE VALVE REMOVAL

1 REMOTE CONTROL VALVE
SCALE: 1 1/2" = 1'

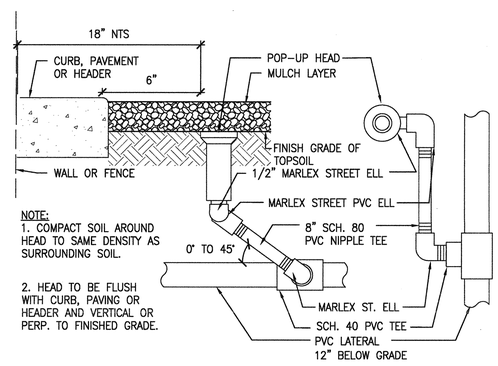


1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 2" ABOVE FINISH GRADE OF MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.
7. THIS DETAIL INDICATES GENERAL INTENT. SEE PLANTING PLANS FOR VALVE BOX LOCATIONS. COORDINATE BOX LOCATIONS WITH THE PLANTING, TYP.

5 VALVE BOX LAYOUT
SCALE: 3/4" = 1'



2 PULLBOX–SURFACE–MOUNT
SCALE: 1 1/2" = 1'



NOTE:
1. COMPACT SOIL AROUND HEAD TO SAME DENSITY AS SURROUNDING SOIL.
2. HEAD TO BE FLUSH WITH CURB, PAVING OR HEADER AND VERTICAL OR PERP. TO FINISHED GRADE.

6 POP UP BUBBLER
SCALE: 3" = 1'

NOTE:
1. INSTALL TO PREVENT SETTING
2. CENTER QCV IN BOX
3. POSITION QCV TO ALLOW CONVENIENT, ACCESSIBLE ACCESS TO QCV KEY & HOSE SWIVEL

3 QUICK COUPLER VALVE
SCALE: 3" = 1'

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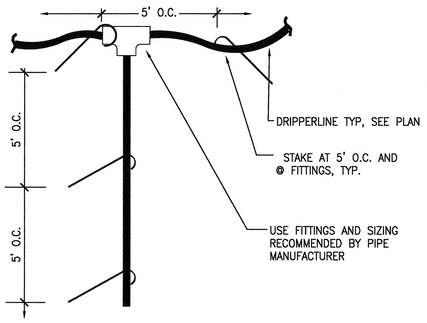
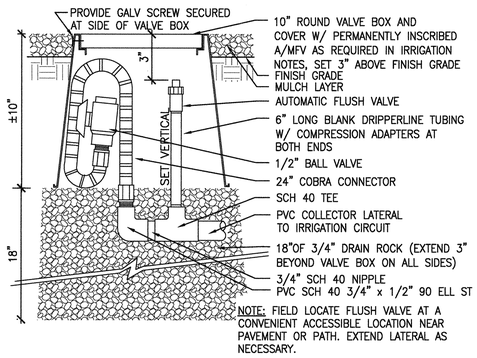
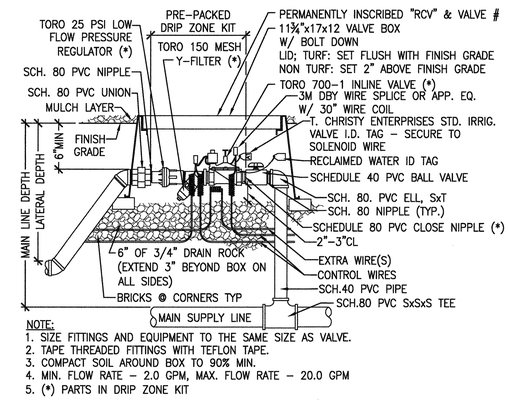


7 DRIP TO DRIP CONNECTION
SCALE: 3/8" = 1'



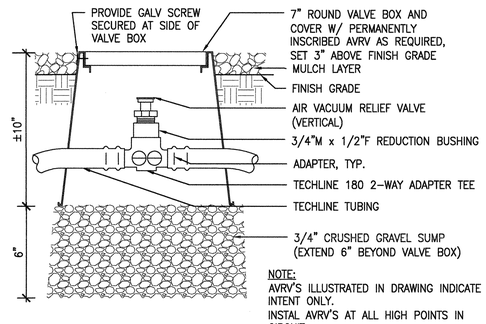
4 AUTO MANUAL FLUSH VALVE
SCALE: 3" = 1'



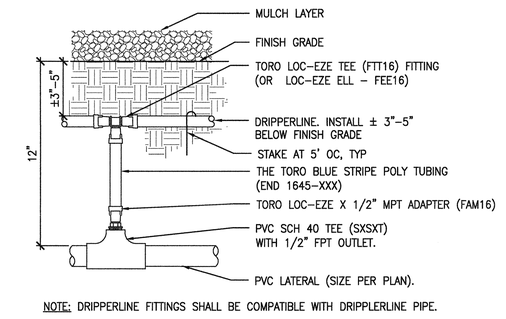
1 DRIP ZONE KIT
SCALE: 1 1/2" = 1'

5 AUTOMATIC FLUSH VALVE
SCALE: 1 1/2" = 1'

2 DRIP LAYOUT
SCALE: 3/4" = 1'



6 AIR VACUUM RELIEF VALVE
SCALE: 3" = 1'



3 PVC TO DRIPLINE
SCALE: 3" = 1'

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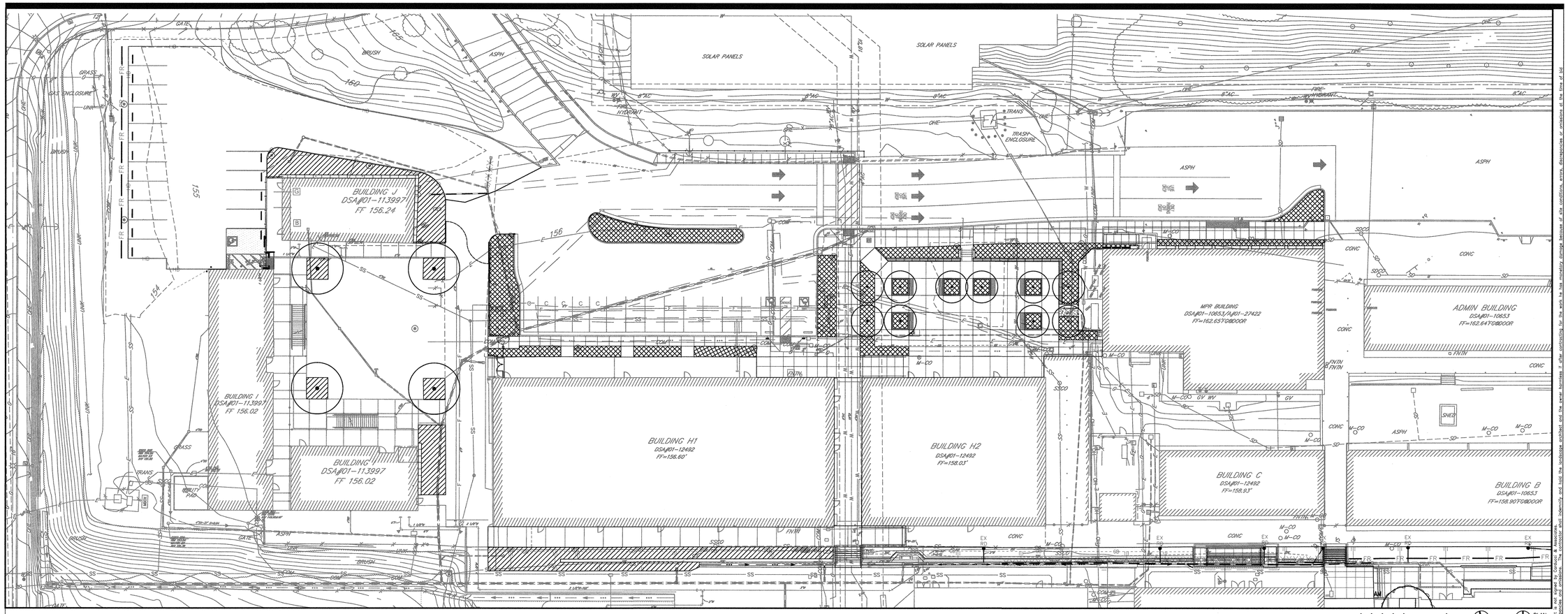
L04.03



PLAN

LEGEND

SYMBOL	DESCRIPTION
——— – – ———	PROPERTY LINE
	(E) CONDITIONS, SEE TOPOGRAPHIC SURVEY

SOIL PREPARATION LEGEND

SYMBOL	DESCRIPTION
	AMEND ON-SITE TOP SOIL (12" DEEP) 5/L07.01
	IMPORT TOP SOIL (24" DEEP) 2/L07.01

TITLE 13 WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE:
I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE GRADING DESIGN PLAN.

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Modernization - Phase 2

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South San Francisco, CA
94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street
South San Francisco
CA 94080-4423

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116622
AC. 9 FLS SS
DATE NOV 09 2017

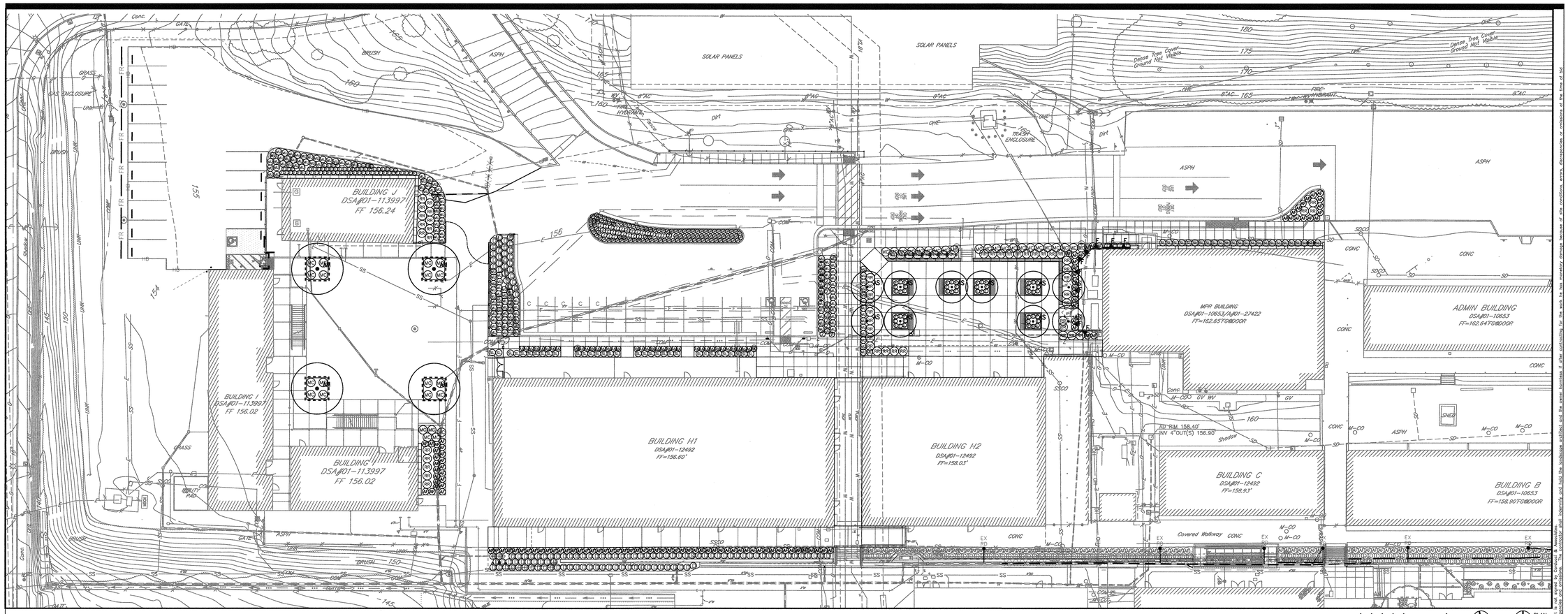
ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE:
PTN: 69070-97
DSA BACKCHECK
10/17/17

SHEET TITLE

SOIL PREP LEGEND & PLAN

SHEET NUMBER

L05.00



PLAN

0 20 40 FEET NORTH PLAN NORTH

VINES

COUNT	KEY	BOTANICAL NAME	COMMON NAME	ORIGIN	SPACING	SIZE	WATER USE WUCOLS #	NOTES
9	F	FICUS PUMILA	CREEPING FIG	CHINA, JAPAN, AUSTRALIA	AS SHOWN	5 GAL	M	

PLANTING NOTES

1. PLANT MATERIAL QUANTITIES ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO ORDER.
2. SUBSTITUTIONS OF PLANT MATERIAL, SPECIES AND/OR VARIETIES ARE NOT PERMITTED.
3. SUBMIT PLANT LIST SHOWING QUANTITIES AND AVAILABILITY OF PLANT MATERIAL WITHIN 30 DAYS OF NOTICE TO PROCEED.
4. ALL PLANT MATERIAL SHALL CONFORM TO THE ANSI Z601 "STANDARD FOR NURSERY STOCK".
5. AMEND SOILS PER SOIL TEST RECOMMENDATIONS, SEE SPECIFICATIONS.
6. APPLY A THREE INCH (3") LAYER OF MULCH IN ALL NON-TURF AND NON-GRASS/PLUG AREAS AND TREE/SHRUB BASINS. KEEP BARK SIX INCHES (6") AWAY FROM TREE CROWNS.
7. PLACE PLANTS IN PROPOSED LOCATIONS FOR REVIEW AND ACCEPTANCE BY THE PROJECT MANAGER PRIOR TO ACTUAL PLANTING. NOTIFY THE PROJECT MANAGER A MINIMUM OF 48 HOURS PRIOR.
8. ALL LANDSCAPED AREAS SHALL BE MAINTAINED IN A HEALTHY AND WEED-FREE CONDITION. DEAD PLANT MATERIAL SHALL BE REPLACED IMMEDIATELY. ALL TREES SHALL BE MAINTAINED AND PRUNED IN ACCORDANCE TO THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA).
9. INSTALL PLANT MATERIAL PER SPECIFICATIONS.
10. NOTIFY PROJECT MANGER 48 HOURS PRIOR TO PLANT DELIVERY. ALL PLANTS TO BE REVIEWED AND ACCEPTED PRIOR TO PLANTING.
11. ALL PLANTS LISTED ABOVE TO BE INSTALLED BY CONTRACTOR.
12. POT HOLE ALL TREE PLANTING LOCATIONS TO IDENTIFY CONFLICTS UNDERGROUND UTILITIES BEFORE TREE PLANTING.
13. WHERE POSSIBLE LOCATE TREES AT LEAST 5' FROM EDGE OF WALKS, PAVING, AND UNDERGROUND UTILITIES. ADJUST LOCATION IN FIELD AS REQUIRED AND AS APPROVED BY LANDSCAPE ARCHITECT.
14. SEE CIVIL DRAWINGS, ELECTRICAL DRAWINGS AND LANDSCAPE DRAWINGS FOR APPROXIMATE LOCATION OF UTILITIES.
15. SLOPE PLANTING AREAS TO DRAIN.

PLANTING LEGEND

SYMBOL	DESCRIPTION
---------	ROOT BARRIER (6 L07.01) (7 L07.01)
■■■■●	IRRIGATION REMOTE CONTROL VALVES & QUICK COUPLER VALVES, TYP.
	UTILITY, SIZE AND INVERT MAY VARY, SEE TOPO SURVEY AND FIELD VARIFY TO AVOID ANY CONFLICT, SEE NOTE 12 AND 14

TREES

COUNT	KEY	BOTANICAL NAME	COMMON NAME	ORIGIN	SPACING	SIZE	WATER USE WUCOLS #	TRUNK	NOTES
4	AM	ACER MACROPHYLLUM	BIG LEAF MAPLE	CA	AS SHOWN	48" BOX	M	STANDARD	
10	AS	ACER PALMATUM 'SANGO KAKU'	CORAL BARK MAPLE	JAPAN, KOREA	AS SHOWN	48" BOX	M	MULTI TRUNK	

SHRUBS AND GROUNDCOVERS

COUNT	KEY	BOTANICAL NAME	COMMON NAME	ORIGIN	SPACING	SIZE	WATER USE WUCOLS #	NOTES
109	AF	ANIGOZANTHOS FLAVIDUS	KANGAROO PAW	AUSTRALIA	3' OC	5 GAL	L	
38	AM	ACHILLEA MILLEFOLIUM	YARROW	CA NATIVE CV	2'-6' OC	1 GAL	L	
129	D	DROSANTHEMUM SPECIOSUM ROSEA	ICE PLANT	SOUTH AFRICA	3' OC	1 GAL	L	
112	E	ERIGERON KARVINSKIANUS	SANTA BARBARA DAISY	MEXICO	2' OC	1 GAL	L	
105	JP	JUNCUS PATENS	CALIFORNIA GRAY RUSH	CA & OREGON	2' OC	1 GAL	L	
45	MC	MUHLENBERGIA CAPILLARIS	PINK MUHLY	EASTERN US	4' OC	1 GAL	L	
142	MJ	MUHLENBERGIA RIGENS	DEER GRASS	CA	3' OC	1 GAL	L	
59	RR	ROSA RUGOSA	JAPANESE ROSE	EASTERN ASIA	4' OC	5 GAL	L	
58	SL	SALVIA LEUCOPHYLLA	PURPLE SAGE	CA	1' OC	3 GAL	L	
36	Z	ZAUSCHNERIA CALIFORNICA	HUMMINGBIRD TRUMPET	CA	2' OC	1 GAL	L	

TITLE 13 WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE:
I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

811 Know what's below. Call 811 before you dig.

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REGISTERED LANDSCAPE ARCHITECT CHRISTOPHER T. LAY 2394 8.31.2017 08.08.2017 STATE OF CALIFORNIA

QKA16-09

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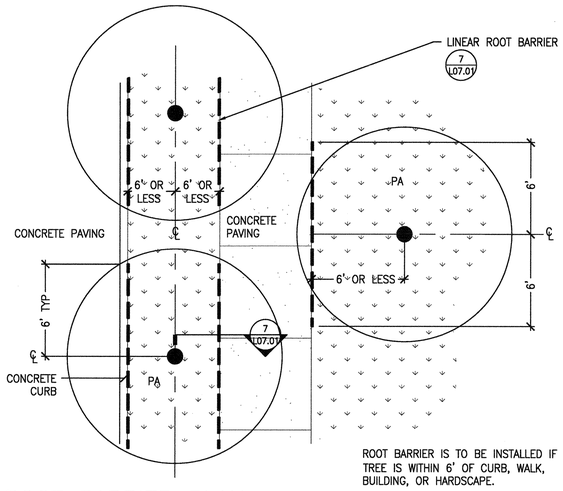
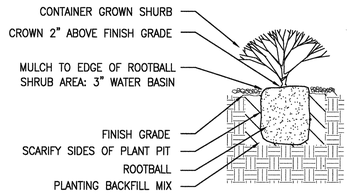
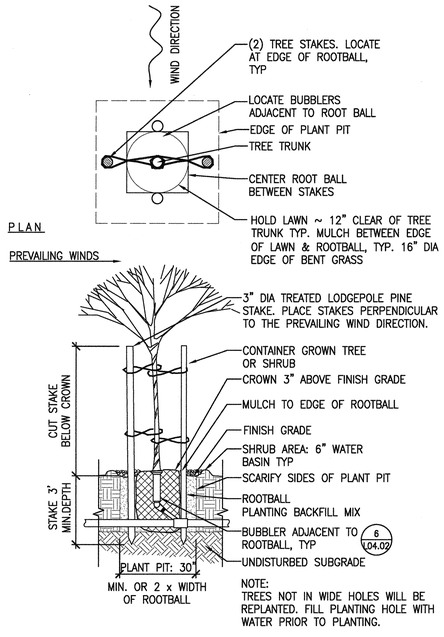
L06.00



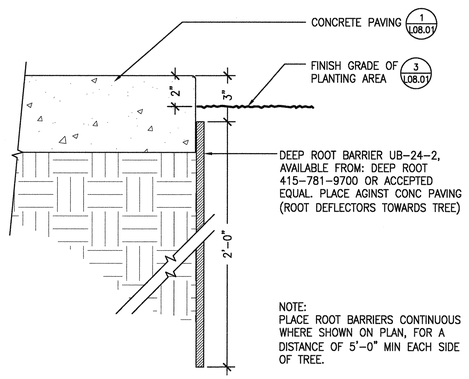
6 ROOT BARRIER PLAN
SCALE: 1/4" = 1'



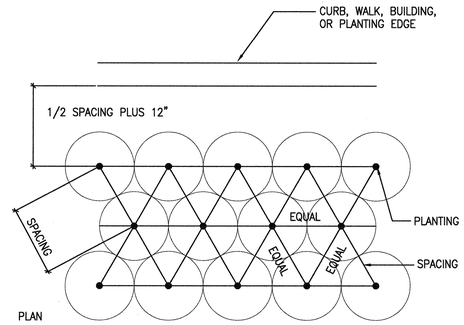
3 SHRUB PLANTING
SCALE: 1" = 1'



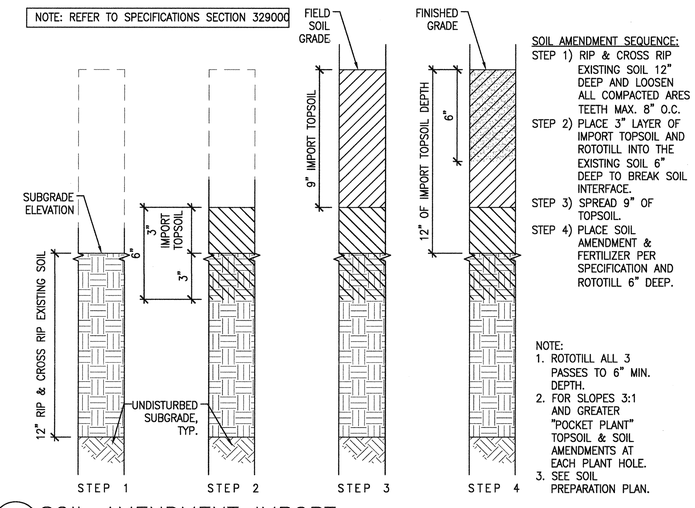
1 TREE – 2 STAKES
SCALE: 1/2" = 1'



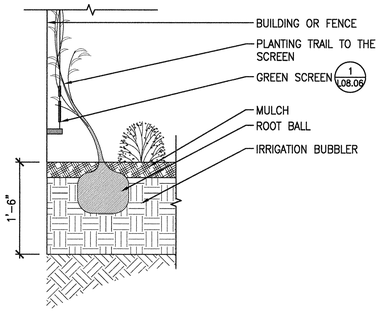
7 ROOT BARRIER
SCALE: 3" = 1'



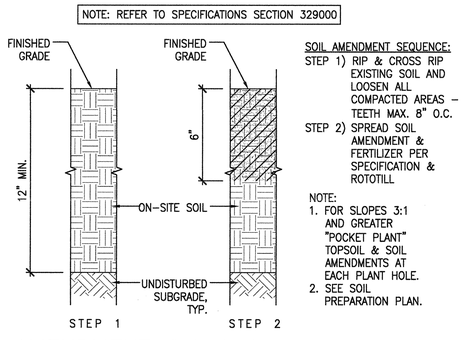
4 GROUNDCOVER
SCALE: 3/4" = 1'



2 SOIL AMENDMENT IMPORT
SCALE: 3" = 1'



8 VINE POCKET
SCALE: 1" = 1'



5 SOIL AMENDMENT ON-SITE
SCALE: 3" = 1'

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REGISTERED LANDSCAPE ARCHITECT — TIMOTHY T. LATTIN — No. 2529 — RENEWAL 8.31.2017 — 08.08.2017 — STATE OF CALIFORNIA

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SHEET TITLE
PLANTING DETAILS

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L07.01

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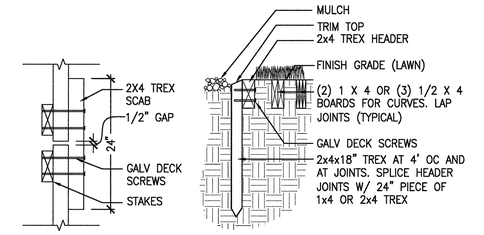
7 NOT USED
SCALE: 1/2" = 1'

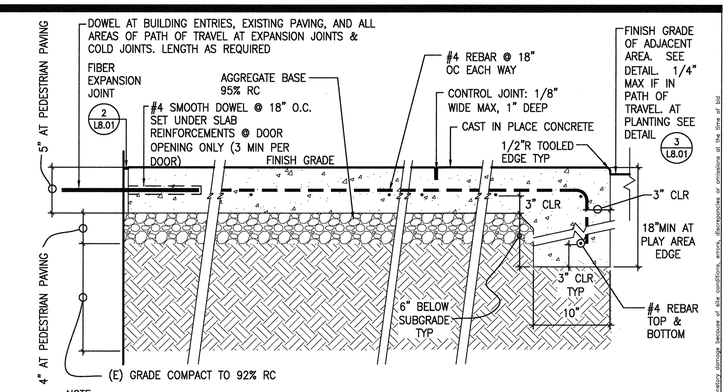


SPLICE DETAIL PLAN

SECTION

NOTES: SEE MATERIAL AND PLANTING PLAN FOR LOCATION

4 HEADER
SCALE: 1 1/2" = 1'

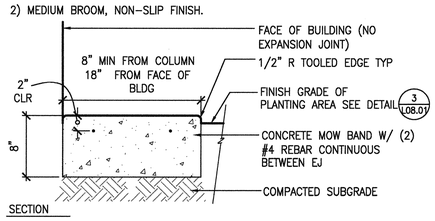


NOTE:
1. SEE MATERIALS PLAN FOR COLOR & FINISH TYP
2. CONTROL JOINTS SHALL BE PLACED A MAX OF 5' OC OR AS SHOWN ON PLANS
3. 1.9% MAX CROSS SLOPE IN ALL AREAS WITHIN PATH OF TRAVEL. IF FIELD CONDITIONS CREATE MORE THAN 1.9% CROSS SLOPE DO NOT POUR CONCRETE WITHOUT APPROVAL BY OWNERS REPRESENTATIVE.
4. PROVIDE MOCK UP ON SITE FOR REVIEW AND ACCEPTANCE
5. PLACE FIBER EXPANSION JOINT A MAX OF 20' O.C., AND WHERE JOINING EXISTING CONCRETE
6. SEE CIVIL DRAWINGS FOR VEHICULAR PAVING

1 CONCRETE PAVING
SCALE: 1 1/2" = 1'

NOTES:
1) LOCATE EJ'S AT EQUAL SPACING, NOT TO EXCEED 20' O.C. LOCATE SCORE JOINTS EQUALLY SPACED BETWEEN EJ'S.

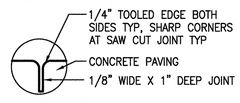
2) MEDIUM BROOM, NON-SLIP FINISH.



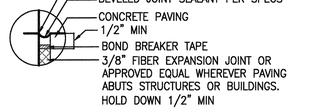
SECTION

5 CONCRETE BAND
SCALE: 1 1/2" = 1'

NOTE: SAW CUT WITHIN 48 HOURS OF POUR, PROCEED AS SOON AS CONCRETE IS FIRM ENOUGH TO PREVENT DEFORMATION AND RAVELING TYP

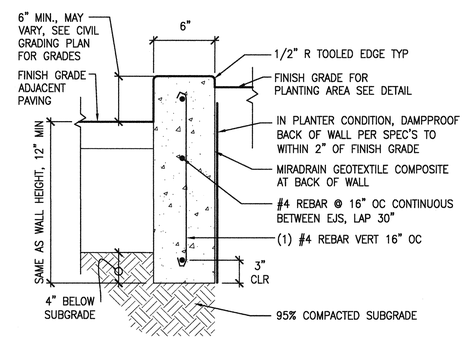


CONTROL JOINT
(SAW CUT JOINT/TOOLED JOINT)



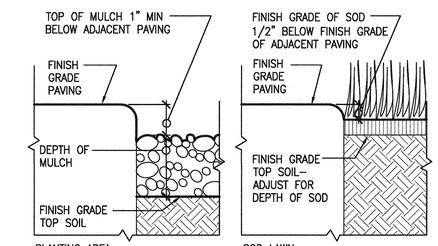
FIBER EXPANSION JOINT (EJ)

2 PAVING JOINT
SCALE: 1/2" = 1'



NOTE:
1. MEDIUM SAND BLAST ALL EXPOSED SURFACES
2. PROVIDE EXPANSION JOINTS AT 20' OC, SCORE JOINTS MAX OF 5' OC
3. COLOR FOR ALL EXPOSED CONCRETE: NATURAL CONCRETE COLOR W/ LAMP BLACK COLOR

6 CONCRETE PLANTER CURB
SCALE: 1 1/2" = 1'



PLANTING AREA

SOD LAWN

NOTE: FINISH ELEVATION IS MEASURED AFTER SOIL PREPARATION AND FIRMING OF SOIL BY WETTING FROM IRRIGATION SYSTEM TO MINIMIZE FUTURE SETTLING

3 GRADE AT EDGE OF PAVING
SCALE: 1/2" = 1'

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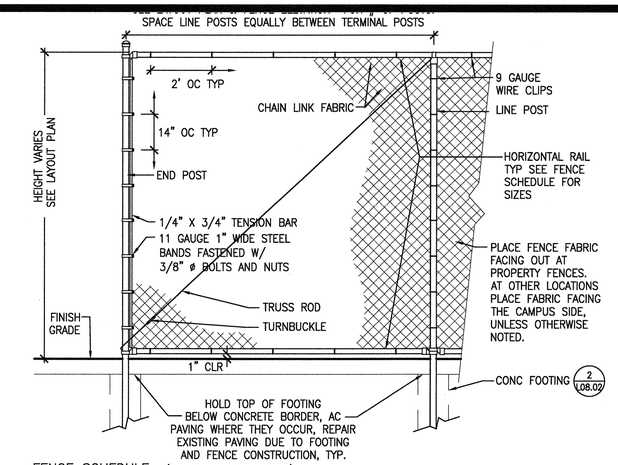
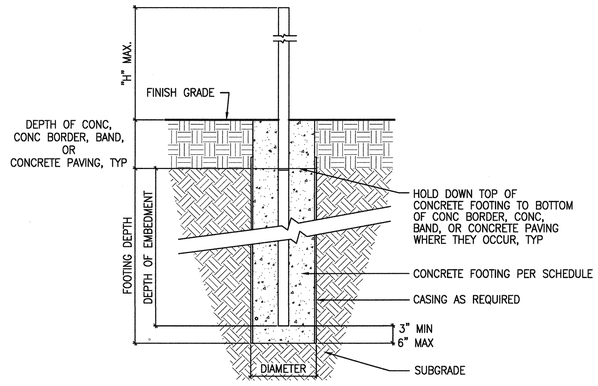


FENCE SCHEDULE (SIZING PER ASTM A-53)

"H" MAX HEIGHT ABOVE FINISH GRADE	DIAMETER OF END POST, CORNER POSTS & GATE POSTS	DIAMETER OF LINE POST	HORIZONTAL RAILS	MAXIMUM POST SPACING
6'-0" CHAIN LINK FENCE	4 (4.5" O.D.) SCHEDULE 40	2-~~7/8~~ 1/2 (2.875" O.D.) SCHEDULE 40	1-~~5/8~~ 1/4 (1.66" O.D.) SCHEDULE 40 TOP & BOTTOM RAIL	8'-0" O.C.
8'-0" CHAIN LINK FENCE	4 (4.5" O.D.) SCHEDULE 40	2-~~7/8~~ 1/2 (2.875" O.D.) SCHEDULE 40	1-~~5/8~~ 1/4 (1.66" O.D.) SCHEDULE 40 TOP & BOTTOM RAIL	8'-0" O.C.
10'-0" TO 10'-6" CHAIN LINK FENCE	4 (4.5" O.D.) SCHEDULE 40	4 (4.5" O.D.) SCHEDULE 40	1-~~5/8~~ (1.66" O.D.) SCHEDULE 40 TOP & BOTTOM RAIL	8'-0" O.C.
8-0"' TO 10'-6" CHAIN LINK FENCE GATE	6 (6-~~5/8~~" O.D.) SCHEDULE 40	—	—	AS SHOWN

1 FENCE & SCHEDULE
SCALE: 1/2" = 1'



CONCRETE FOOTING SCHEDULE (PIERS)			
HEIGHT "H"	DIAMETER	FOOTING DEPTH	VERTICAL REINF.
6'-0"	18"	60"	6 - #5
8'-0"	18"	72"	6 - #5
10'-0"	24"	72"	6 - #5
8'-0" TO 10'-0" GATE POSTS	24"	108"	6 - #5

NOTE:
FENCE POST SPACING NOT TO EXCEED 8'-0" TYP

2 FENCE FOOTING
SCALE: 1/2" = 1'

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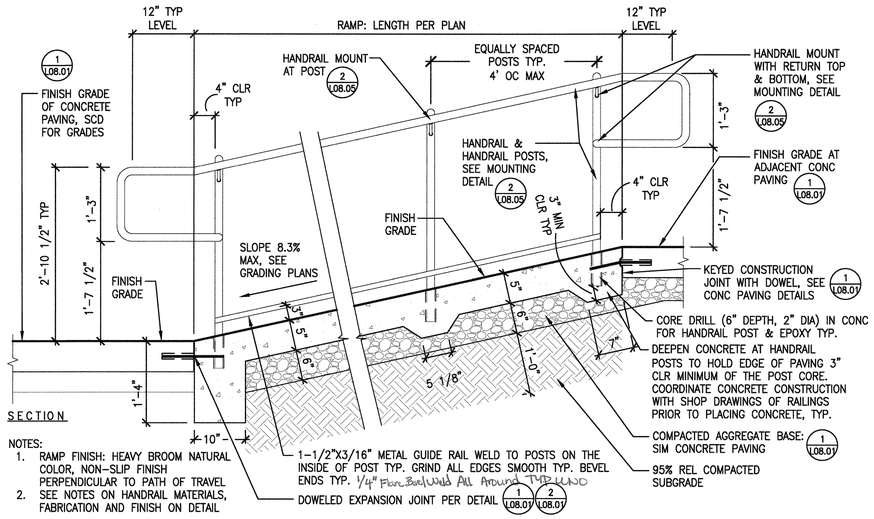
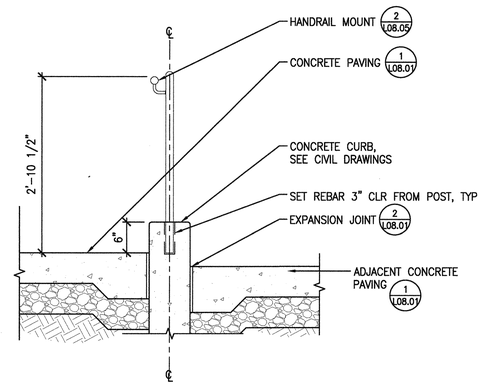
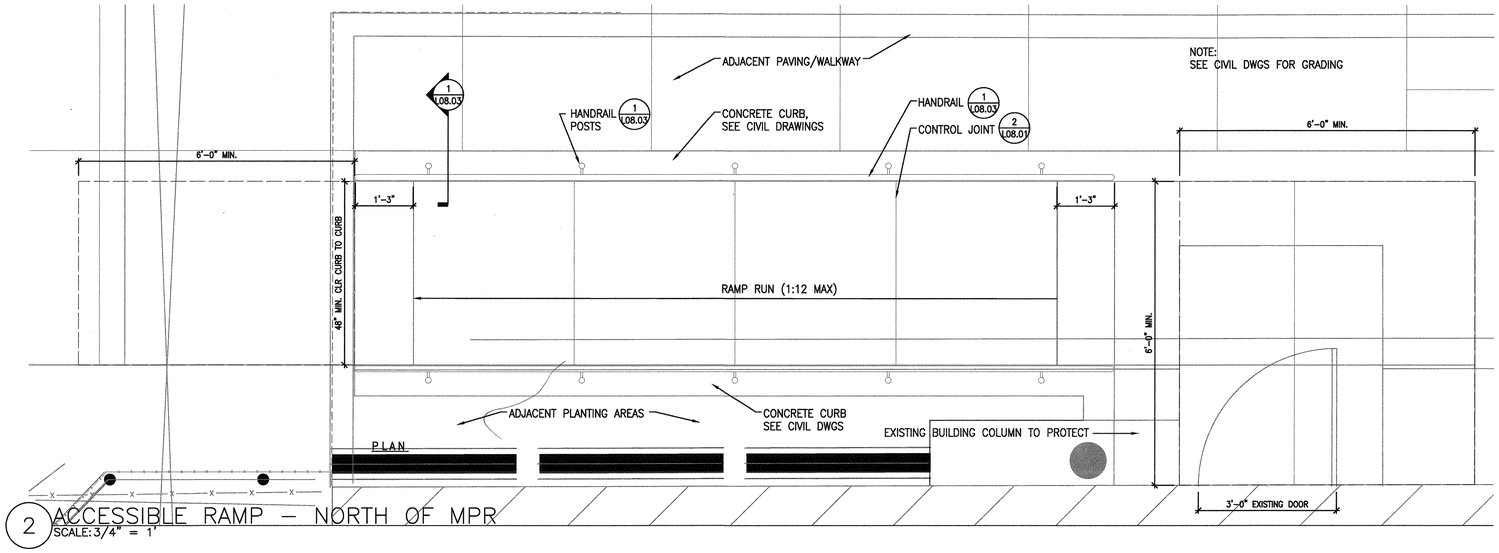


NOTES:
1. RAMP FINISH: HEAVY BROOM NATURAL COLOR, NON-SLIP FINISH PERPENDICULAR TO PATH OF TRAVEL
2. SEE NOTES ON HANDRAIL MATERIALS, FABRICATION AND FINISH ON DETAIL

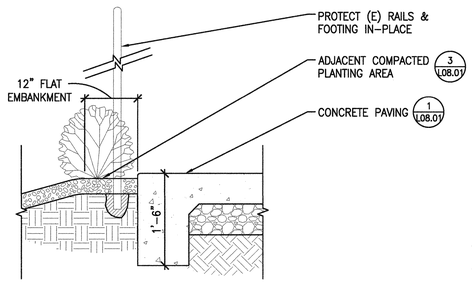
4 ACCESSIBLE RAMP – SECTION
SCALE: 1" = 1'



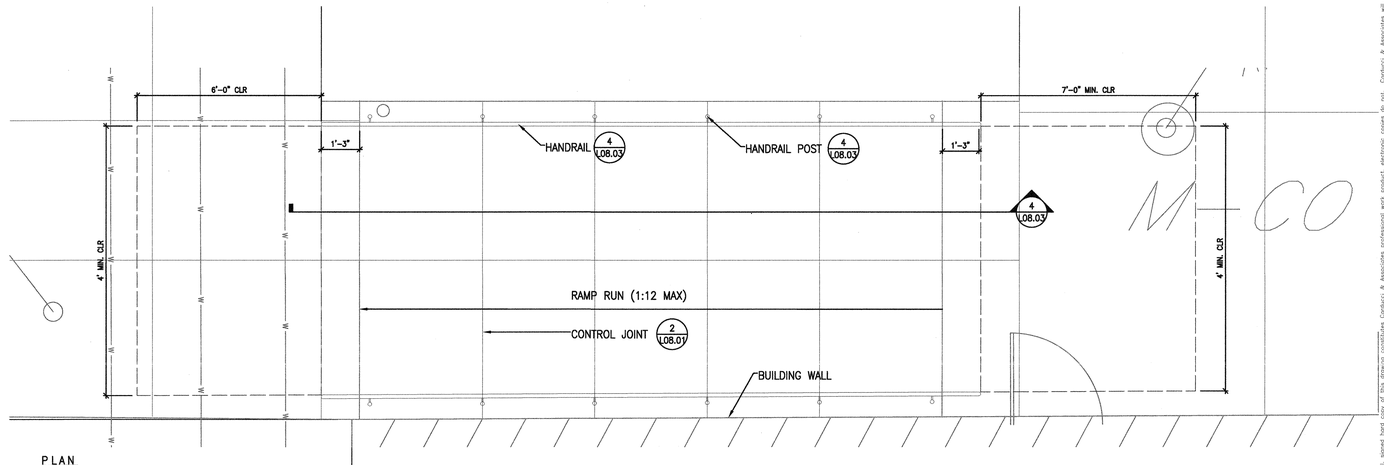
1 HANDRAIL ON RAMP – CURB
SCALE: 1" = 1'



2 ACCESSIBLE RAMP – NORTH OF MPR
SCALE: 3/4" = 1'



5 CONCRETE DEEPENED EDGE AT CORRIDOR
SCALE: 1" = 1'



3 ACCESSIBLE RAMP – PLAN
SCALE: 1/2" = 1'

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REGISTERED LANDSCAPE ARCHITECT — STEPHEN T. LAU — No. 2524 — 8.31.2017 — 08.08.2017 — STATE OF CALIFORNIA

QKA16-09

Parkway Heights Middle School

Modernization - Phase 2

650 Sunset Ave
South San Francisco, CA
94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street
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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116522
AC FLS SS
DATE NOV 09 2017

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE:
PTN: 69070-97

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SHEET TITLE

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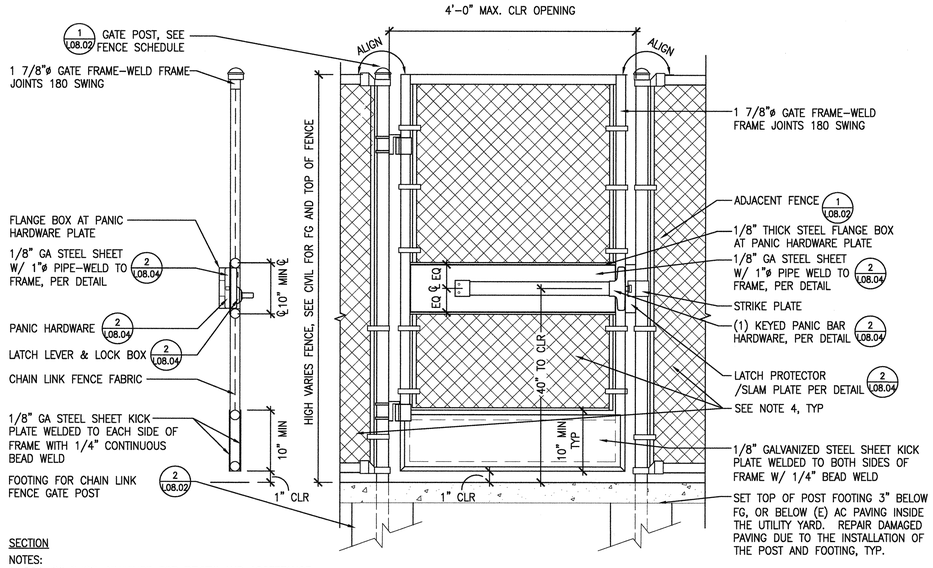
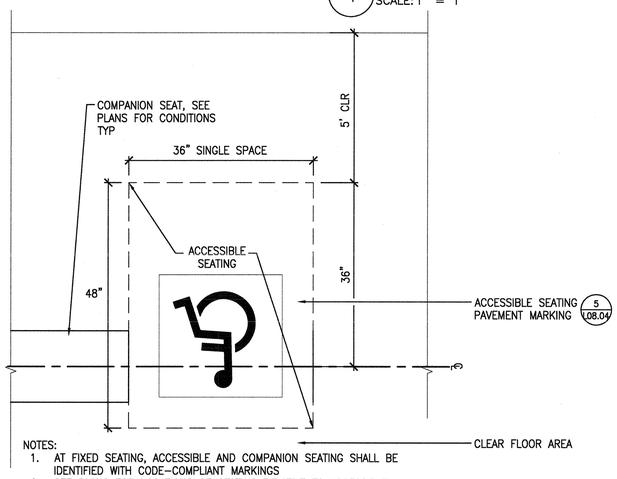


SECTION

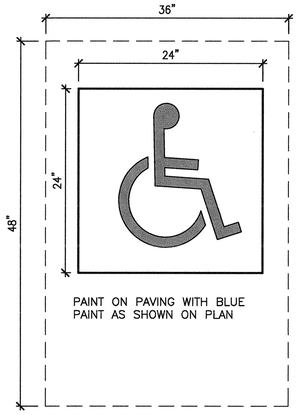
NOTES:
1. PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FABRICATE A GATE AND PROVIDE HARDWARE COMPATIBLE WITH THE GATE, TO PROVIDE A FULLY FUNCTIONAL, THAT MEETS CBC CHAPTER 11B REQUIREMENTS. IF NECESSARY MAKE ADJUSTMENTS TO MEET THESE CRITERIA.
3. SHOP WELD TYP. HOT DIP GALVANIZE FOLLOWING FABRICATION. ALL GATE AND HARDWARE PORTIONS TO BE GALVANIZED. PANIC HARDWARE TO BE STAINLESS STEEL, VON DUPRIN 98/99 SERIES OR EQ. SUBMIT PRODUCT DATA FOR DISTRICT EXTERIOR TRIM (LEVER AND KEY) SELECTION.

4 SINGLE MAINTENANCE GATE WITH PANIC HARDWARE
SCALE: 1" = 1'



NOTES:
1. AT FIXED SEATING, ACCESSIBLE AND COMPANION SEATING SHALL BE IDENTIFIED WITH CODE-COMPLIANT MARKINGS
2. SEE PLANS FOR LOCATIONS OF SEATING RELATIVE TO ACCESSIBLE SPACES TYP.

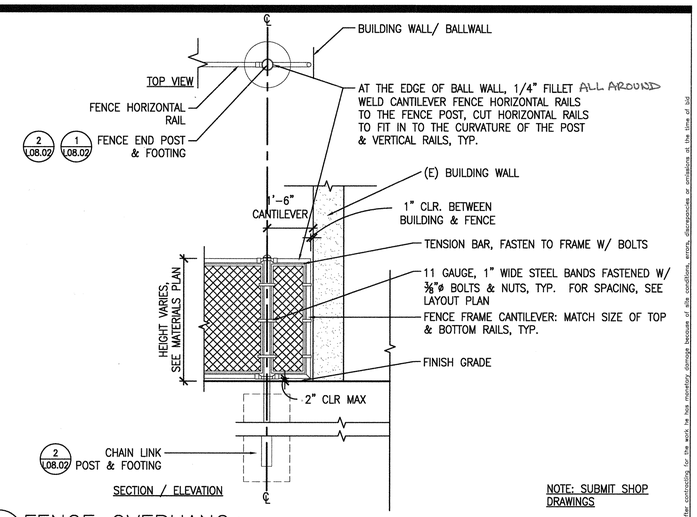
6 ADA-FRONT-REAR ACCESSIBLE SEATING
SCALE: 1" = 1'



NOTE: ACCESSIBLE SEATING PAVEMENT MARKING

1. PROVIDE SIGNS AND MARKINGS AT ACCESSIBLE SEATING AS SHOWN ON PLAN.

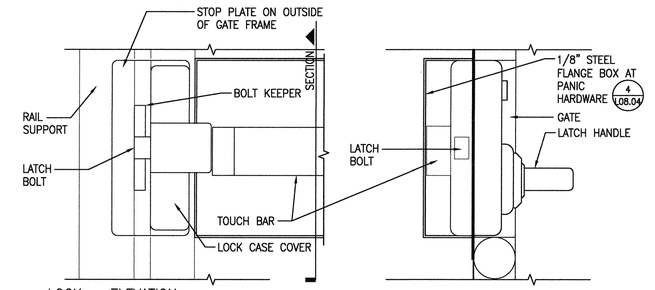
5 ACCESSIBLE SEATING SIGNAGE
SCALE: 6" = 1'

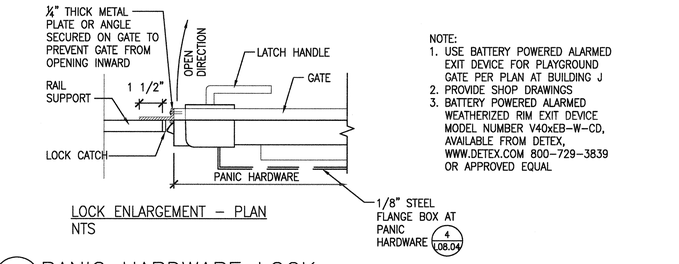


SECTION / ELEVATION

NOTE: SUBMIT SHOP DRAWINGS

1 FENCE OVERHANG
SCALE: 1/2" = 1'





NOTE:
1. USE BATTERY POWERED ALARMED EXIT DEVICE FOR PLAYGROUND GATE PER PLAN AT BUILDING J
2. PROVIDE SHOP DRAWINGS
3. BATTERY POWERED ALARMED WEATHERIZED RIM EXIT DEVICE MODEL NUMBER V40xEB-W-CD, AVAILABLE FROM DETEX, WWW.DETEX.COM 800-729-3839 OR APPROVED EQUAL

2 PANIC HARDWARE LOCK
SCALE: 3" = 1'

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QKA16-09

Parkway Heights Middle School

Modernization - Phase 2

650 Sunset Ave
South San Francisco, CA
94080
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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116522
AC RS SS LKF
DATE NOV 0 5 2017

ARCH PROJECT NO:	1277.04
DRAWN BY:	
DRAWING SCALE:	
PTN:	69070-97

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SHEET TITLE
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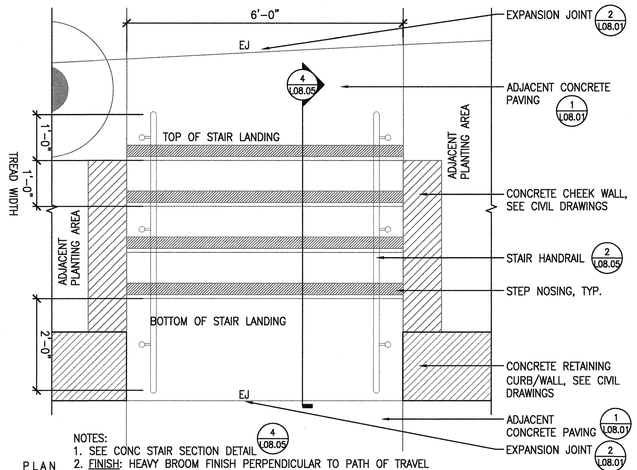
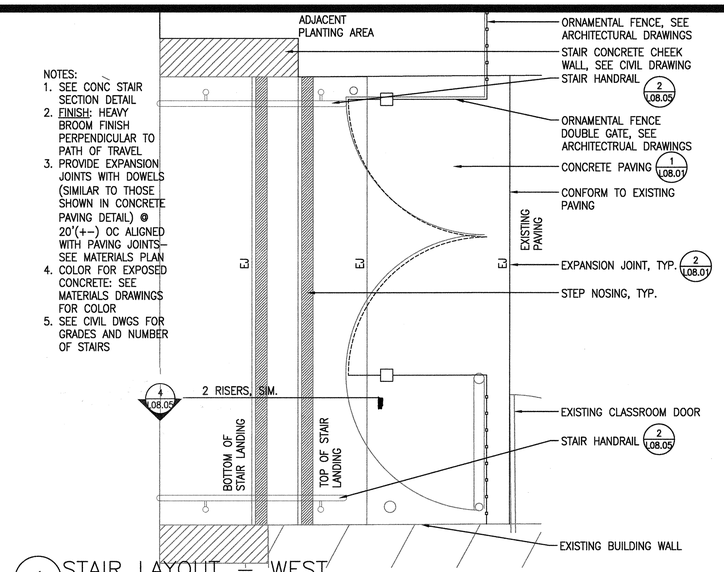


PLAN

NOTES:
1. SEE CONC STAIR SECTION DETAIL 4 L08.05
2. FINISH: HEAVY BROOM FINISH PERPENDICULAR TO PATH OF TRAVEL
3. PROVIDE EXPANSION JOINTS WITH DOWELS (SIMILAR TO THOSE SHOWN IN CONCRETE PAVING DETAIL) @ 20'(+-) OC ALIGNED WITH PAVING JOINTS- SEE MATERIALS PLAN
4. COLOR FOR EXPOSED CONCRETE: SEE MATERIALS DRAWINGS FOR COLOR
5. SEE CIVIL DWGS FOR GRADES AND NUMBER OF STAIRS

3 STAIR LAYOUT
SCALE: 3/4" = 1'

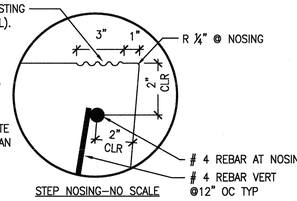


NOTES:
1. SEE CONC STAIR SECTION DETAIL
2. FINISH: HEAVY BROOM FINISH PERPENDICULAR TO PATH OF TRAVEL
3. PROVIDE EXPANSION JOINTS WITH DOWELS (SIMILAR TO THOSE SHOWN IN CONCRETE PAVING DETAIL) @ 20'(+-) OC ALIGNED WITH PAVING JOINTS- SEE MATERIALS PLAN
4. COLOR FOR EXPOSED CONCRETE: SEE MATERIALS DRAWINGS FOR COLOR
5. SEE CIVIL DWGS FOR GRADES AND NUMBER OF STAIRS

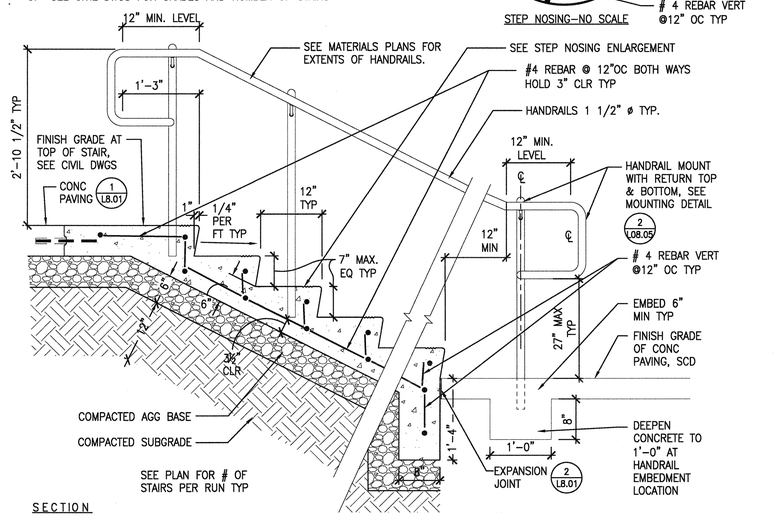
1 STAIR LAYOUT - WEST
SCALE: 3/4" = 1'

TOOLED DETECTABLE WARNING GROOVES (1/4" DP X 3/4" OC) W/ GRIT AND CONTRASTING COLOR YELLOW DURAPOXY PAINT (AVAILABLE FROM KELLY-MOORE OR ACCEPTED EQUAL).

NOTES:
1. STAIRS MORE THAN 30" ABOVE THE ADJACENT GROUND SHALL BE PROVIDED WITH GUARDRAILS THAT ARE NOT LESS THAN 42" IN HEIGHT. OPEN GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR AN ORNAMENTAL PATTERN SUCH THAT A SPHERE 4" IN DIAMETER CANNOT PASS THROUGH. SEE ARCH DWGS.
2. FINISH: HEAVY BROOM FINISH PERPENDICULAR TO PATH OF TRAVEL
3. PROVIDE EXPANSION JOINTS WITH DOWELS (SIMILAR TO THOSE SHOWN IN CONCRETE PAVING DETAIL) @ 20'(+-) OC ALIGNED WITH PAVING JOINTS- SEE MATERIALS PLAN
4. COLOR FOR EXPOSED CONCRETE: SEE MATERIALS DRAWINGS FOR COLOR
5. SEE CIVIL DWGS FOR GRADES AND NUMBER OF STAIRS

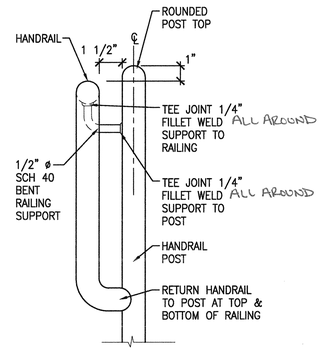


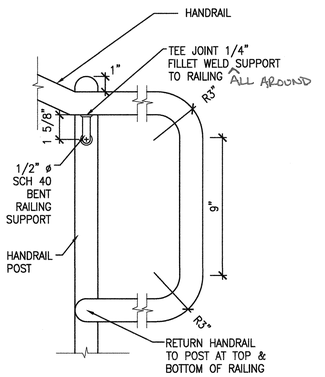
STEP NOSING-NO SCALE



SECTION

4 CONCRETE STAIR - SECTION
SCALE: 1" = 1'





NOTES:
1. SUBMIT SHOP DRAWINGS FOR ACCEPTANCE.
2. GRIND SMOOTH WELDS TYP.
3. FINISH: CLEAN GALVANIZED ACCEPTABLE TO INSPECTOR OF RECORD.
4. HANDRAILS & POSTS SHALL BE ASTM a53 GRADE B, SCH 80: 1 1/4" ø, (1.66" OUTER DIAMETER) TYP

2 HANDRAIL MOUNT
SCALE: 3" = 1'

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QKA16-09

Parkway Heights Middle School

Modernization - Phase 2

650 Sunset Ave
South San Francisco, CA 94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street
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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116522
AC FLS SS KP
DATE NOV 09 2017

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE:
PTN: 69070-97
DSA BACKCHECK
10/17/17

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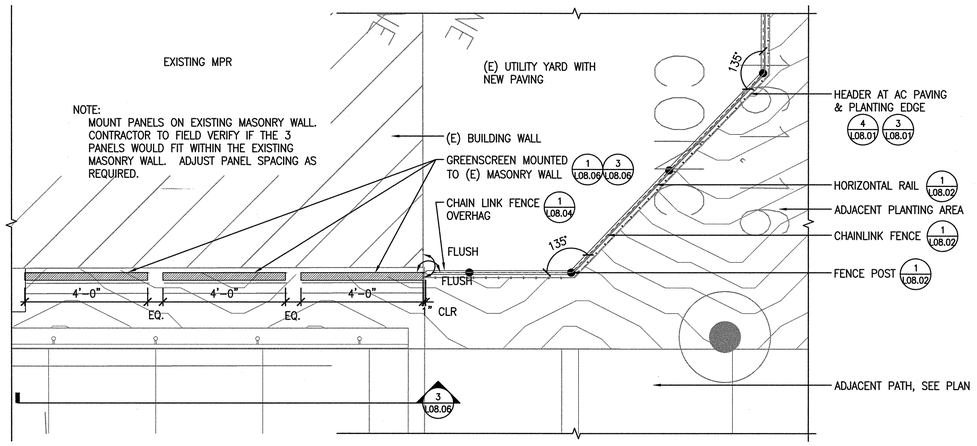
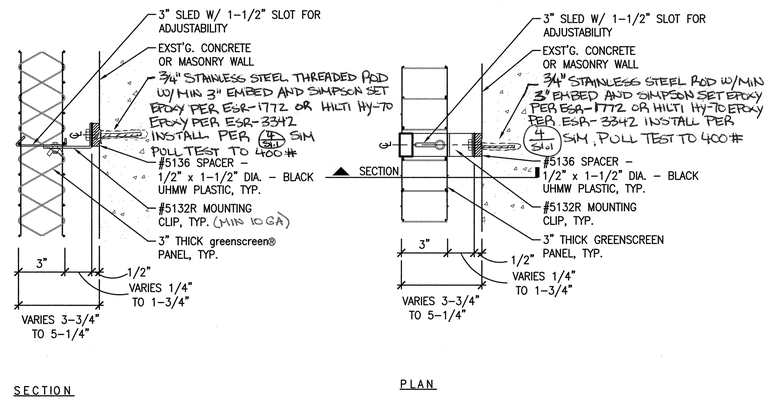
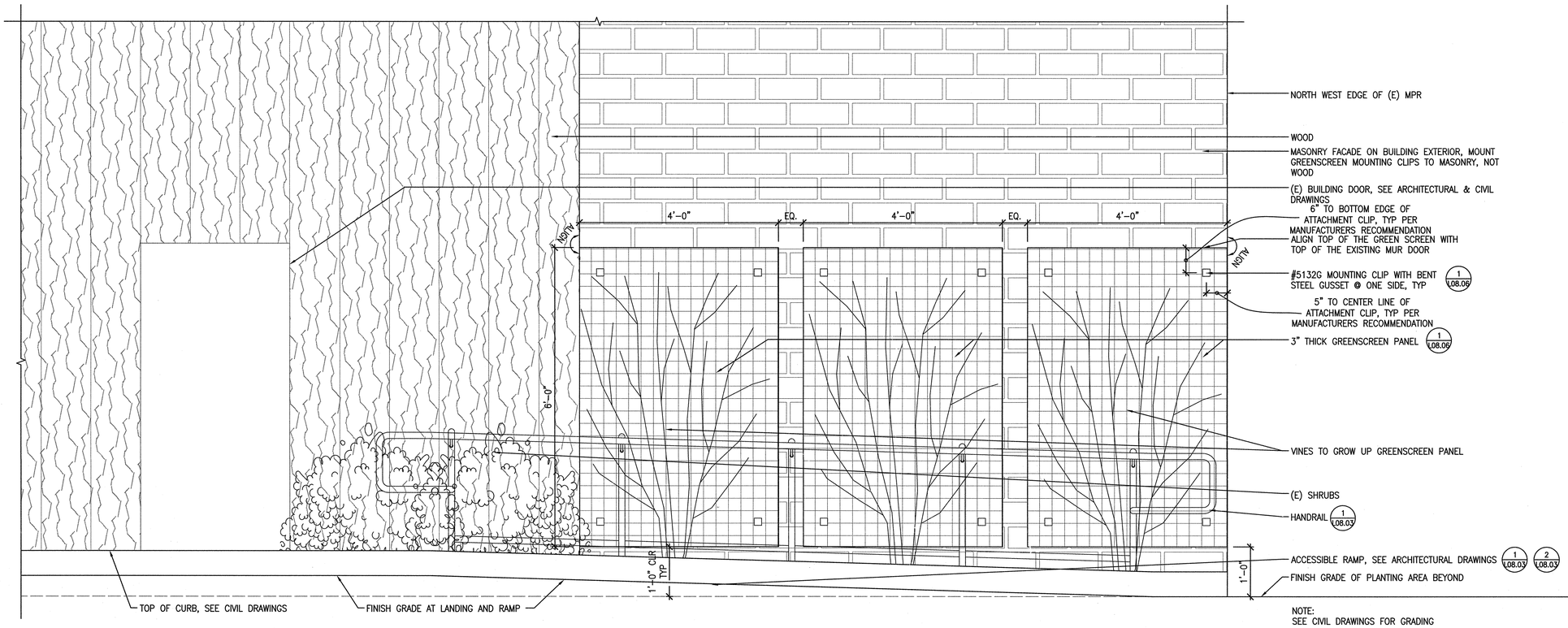


2 FENCE AT EXISTING BUILDING
SCALE: 1/2" = 1'

NOTE:
1. SEE MATERIAL PLAN FOR GREEN SCREEN MODULAR PANEL DESCRIPTION
2. MOUNT PANEL PER MANUFACTURER SPECIFICATION
3. WATER TIGHT SEAL ALL THE DRILL HOLES AFTER MOUNTING



1 GREENSCREEN WALL MOUNT
SCALE: 3" = 1'



3 GREENSCREEN ELEVATION
SCALE: 1" = 1'

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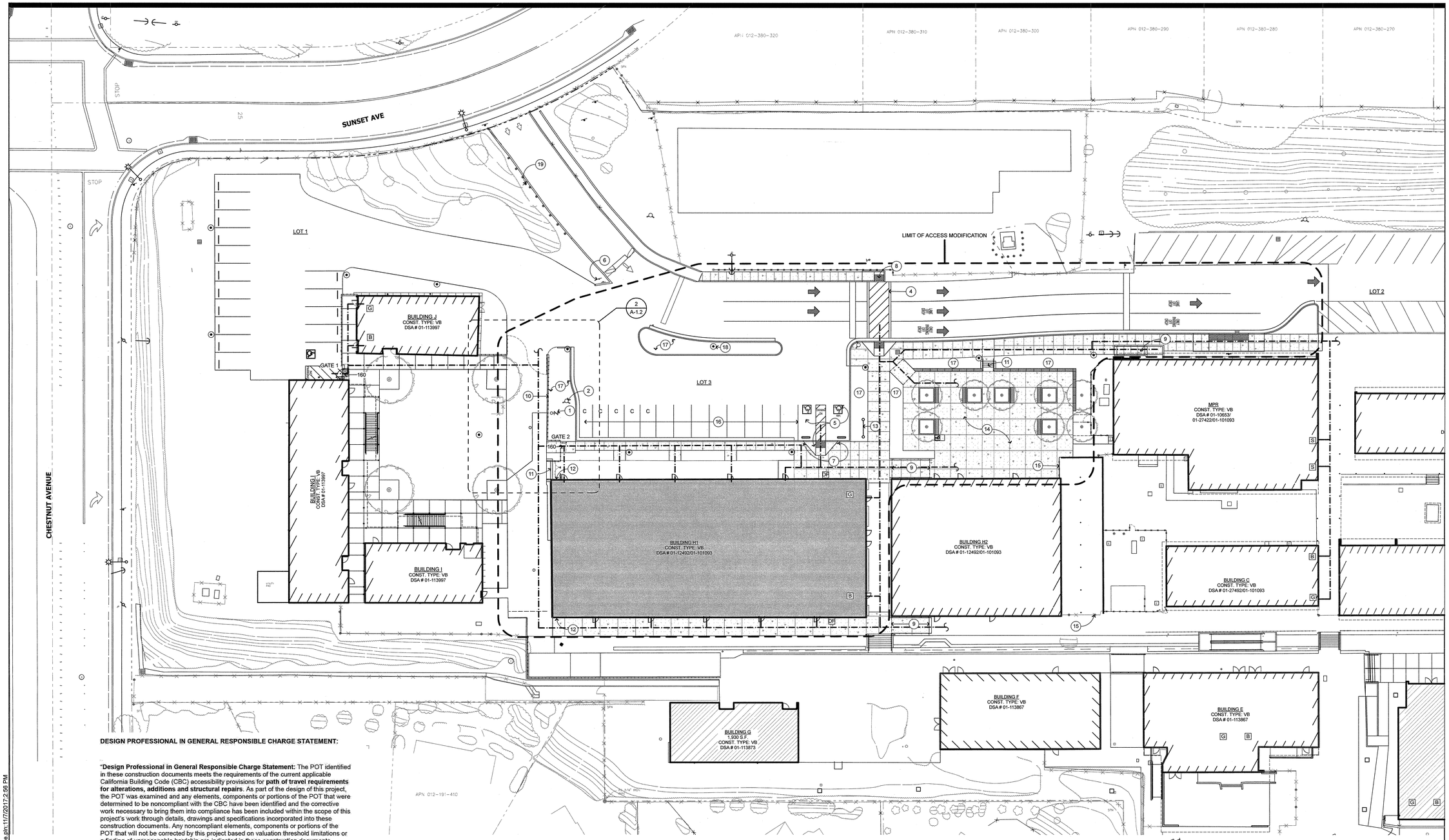


SITE PLAN-ACCESS 1

1" = 20'

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:

"**Design Professional in General Responsible Charge Statement:** The POT identified in these construction documents meets the requirements of the current applicable California Building Code (CBC) 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 with the CBC have been identified and 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 indicated in these construction documents.

During construction, if POT items within the scope of the project represented as CBC compliant are found to be nonconforming beyond reasonable construction tolerances, the items shall be brought into compliance with the CBC as a part of this project by means of a construction change document."

ACCESS SITE PLAN KEYNOTES

1. POST INDICATOR VALVES AND FIRE DEPARTMENT CONNECTIONS, S.C.D.
2. (E) FIRE HYDRANT
3. FIRE DEPARTMENT ACCESS GATE
4. PAINTED CROSSWALK, S.C.D.
5. ACCESSIBLE PARKING W/ RAMP, S.C.D. & S.L.D.
6. (E) ACCESSIBLE PARKING ENTRANCE SIGN PER DSA # 01-108863
7. ACCESSIBLE PARKING SIGN, S.C.D.
8. DETECTABLE WARNING SURFACE, TYP, S.C.D.
9. ACCESSIBLE RAMP W/ RAILING, S.L.D.
10. ORNAMENTAL FENCE, SEE: 10 / A-1.2
11. STAIR WITH RAILING, S.L.D.
12. REPLACE RWL PER DETAIL 13 / A-1.2
13. (E) DOUBLE CHECK DETECTOR BACKFLOW DEVICE
14. COURT YARD, S.L.D. & S.C.D.
15. (E) GATE
16. PARKING, S.C.D.
17. PLANTER, S.L.D.
18. ELECTRICAL ITEM, S.E.D.
19. (E) TOW AWAY SIGN PER DSA # 01-108863

PARKING SPACES ANALYSIS

	OVERALL SPACES	ACCESSIBLE SPACES	VAN ACCESSIBLE SPACES
PARKING LOT 1	16	-	1
PARKING LOT 2	43	2	1
PARKING LOT 3	15	1	1
TOTAL PROVIDED	**74**	**3**	**3**

CBC Table 11B-208.6 Accessible Parking Required: min 3 accessible spaces every 51-75 parking spaces	REQUIRED SPACES
	3

VAN ACCESSIBLE = 3
ACCESSIBLE SPACES = 3
TOTAL PROVIDED = 6

REQUIRED EGRESS WIDTH THROUGH GATES

OCCUPANTS FOR (E) BLDG I
FIRST FLOOR: 124 OCCUPANTS
SECOND FLOOR: 129 OCCUPANTS

OCCUPANTS FOR (E) BLDG J
TOTAL=67 OCCUPANTS

TOTAL OCCUPANTS TO EXIT THROUGH GATES 1 AND 2 = 320 OCCUPANTS

320x.2/PER PERSON=64" WIDTH REQUIRED
WIDTH PROVIDED = 84"

SITE PLAN GENERAL NOTES

1. FOR SITE DEMOLITION WORK, S.C.D.
2. ALL NEW WORK SHALL BE ACCESSIBLE. ALL NEW WALKWAYS SHALL CONFORM TO CBC 1133B.7.
3. EXTERIOR CONCRETE FLATWORK SHALL HAVE A MAXIMUM SLOPE OF 1:20 U.O.N.: EXTERIOR DOOR LANDINGS SHALL SLOPE 1/4" PER FOOT MAX FOR DRAINAGE. CONCRETE SHALL SLOPE MIN. 1/8" PER FOOT AWAY FROM BUILDINGS, S.C.D.
4. NON-SLIP SURFACE (HEAVY BROOM FINISH AT EXTERIOR CONCRETE PAVING WHERE SLOPED >6%, MEDIUM BROOM FINISH AT SLOPES <6%). REFER TO LANDSCAPE AND CIVIL DRAWINGS FOR SCORING, CONTROL AND EXPANSION JOINTS. ALL ENTRANCES ALONG ACCESSIBLE PATH OF TRAVEL ARE ACCESSIBLE ENTRANCES W/ SIGNAGE.
5. REFER TO CIVIL & LANDSCAPE DRAWINGS FOR EXTENT AND TYPES OF PAVING, PLANTERS, AND OTHER SITE FEATURES.
6.

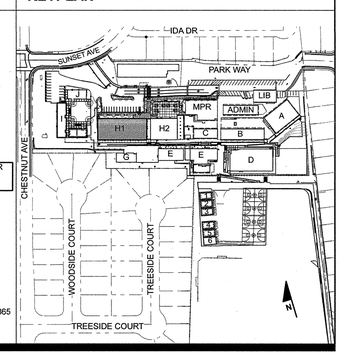
ACCESS SITE PLAN NOTES

1. SEE THIS SHEET FOR ACCESSIBLE PATH OF TRAVEL INFORMATION.
2. ALL NEW WORK SHALL BE ACCESSIBLE. ALL NEW WALKWAYS SHALL CONFORM TO CBC 1133B.7. PAVING MATERIALS NOT OTHERWISE NOTED SHALL BE CONCRETE PER SHEET C8
   - CONCRETE SHALL SLOPE MIN. 1/8" PER FOOT AWAY FROM BUILDINGS, S.C.D.
   - EXTERIOR DOOR LANDINGS SHALL SLOPE 1/4" PER FOOT MAX. AWAY FROM BUILDING FOR DRAINAGE.
3. REFER TO CIVIL ENGINEERING DWGS FOR SIDEWALK GRADES AND EXTENT OF UTILITIES.
4. REFER TO CIVIL ENGINEERING DRAWINGS FOR SITE FEATURES NOT OTHERWISE INDICATED
5. PARKING AND PEDESTRIAN SITE SIGNAGE SHALL COMPLY WITH CBC SECTIONS 1117B.5 & 1129B.4.
6. BUILDING SIGNAGE SHALL COMPLY WITH CBC 1117B.5
7. PEDESTRIAN GATES SHALL COMPLY WITH CBC 1008.2 & 1133B.2.
8. — — — INDICATES BARRIER FREE PATH OF TRAVEL
   - 1:20 MAXIMUM SLOPE WITHOUT A RAMP.
   - 1:50 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)
   - NON-SLIP SURFACE -HEAVY BROOM FINISH AT EXT CONC PAVING WHERE SLOPED >6%, MED 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.

SITE PLAN LEGEND

- (E) CHAIN LINK FENCE AND GATES
- CHAIN LINK FENCE AND GATES
- ORNAMENTAL FENCE AND GATES
- ACCESSIBLE PATH OF TRAVEL
- LIMIT OF ACCESS MODIFICATION
- (E) BUILDING
- (E) BUILDING: UNDER CONSTRUCTION
- MODERNIZATION
  MODERNIZED AREAS DO NOT ALTER OCCUPANCY OR CONSTRUCT TYPE OF THAT CERTIFIED UNDER DSA APPLICATION #01-12492 AND #01-101093
- CONC. S.C.D & S.L.D.
- 4 / A-1.2 — INDICATES FENCE/GATE ELEVATION ON SHEET A-1.2, (ELEVATION 4 ON SHEET NUMBER A-1.2)
- FH — FIRE HYDRANT
- PIV — POST INDICATOR VALVE
- B G S — ACCESSIBLE TOILETS PER DSA # 01-100242 & 01-113865 BOYS; GIRLS, STAFF
- DF — ACCESSIBLE DRINKING FOUNTAIN

KEYPLAN



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LICENSE # C22643
EXP. JUNE 30, 2019
STATE OF CALIFORNIA
SIGNED: 10/17/17

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street South San Francisco CA 94080-4423

IDENTIFICATION STAMP
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FILE NO: 41-28
APPL NO: 01-116522
AC: 8 FLS: SS
DATE: NOV 09 2017

ARCH PROJECT NO:	1277.04
DRAWN BY:	ARW
DRAWING SCALE:	
PTN:	69070-97

DSA BACKCHECK
10/17/17

SHEET TITLE

SITE PLAN - ACCESS

SHEET NUMBER

A-1.1

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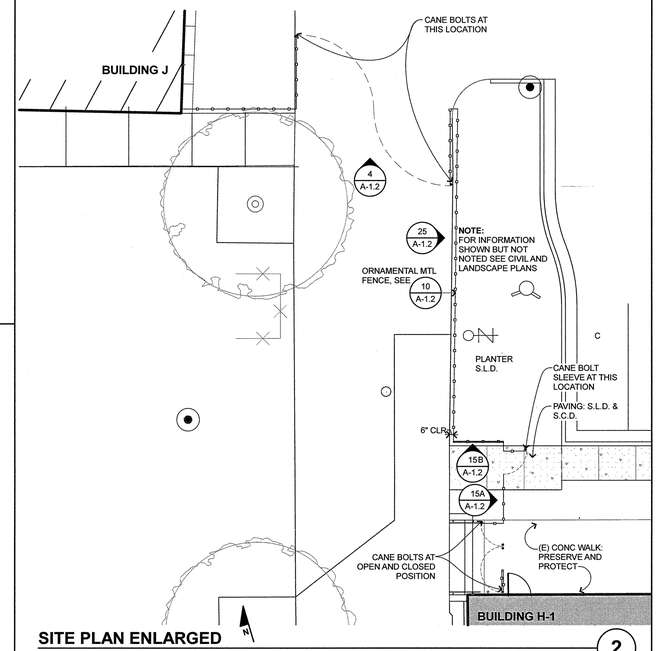
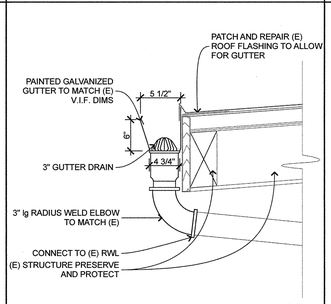


SITE PLAN ENLARGED

1/8" = 1'-0"

2

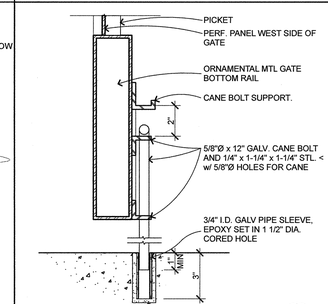


CONNECTION TO (E) RWL

1 1/2"= 1'-0"

1277.04

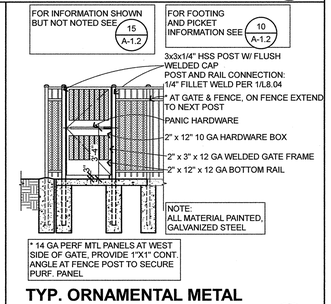
13



CANE BOLT

3" = 1'-0"

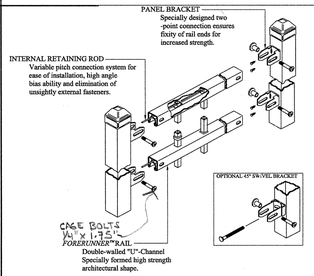
8



TYP. ORNAMENTAL METAL GATE

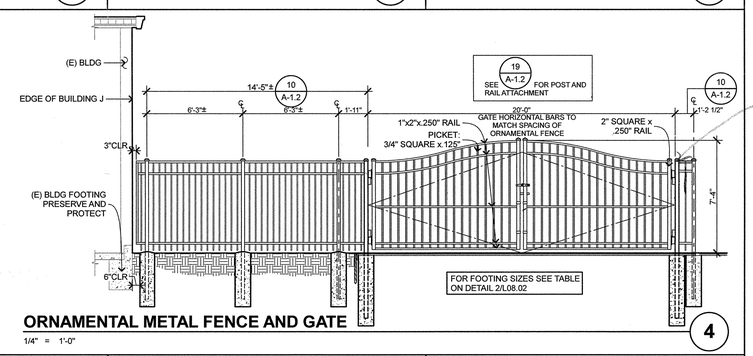
1/4" = 1'-0"

3



RAIL TO POST CONNCECTION PICKET TO RAIL CONNECTION

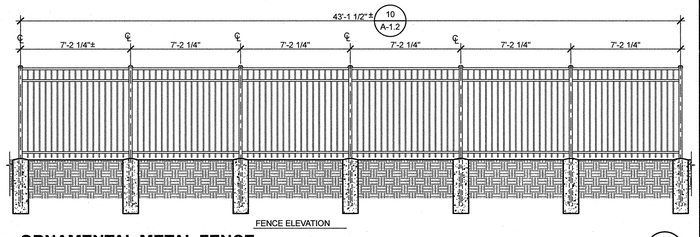
19



ORNAMENTAL METAL FENCE AND GATE

1/4" = 1'-0"

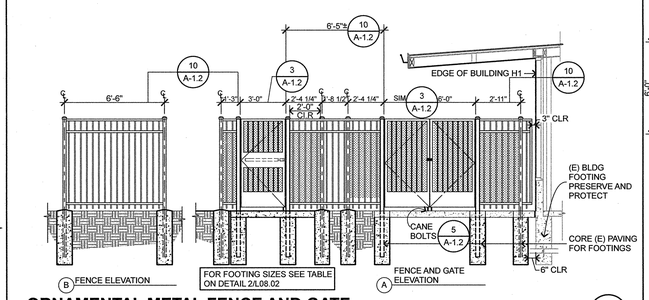
4



ORNAMENTAL METAL FENCE

1/4" = 1'-0"

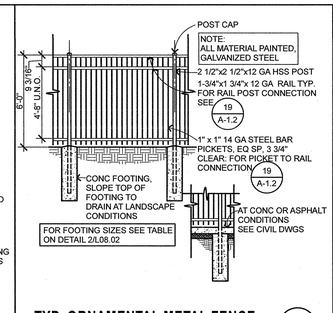
25



ORNAMENTAL METAL FENCE AND GATE

1/4" = 1'-0"

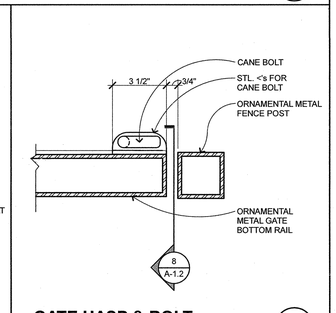
15



TYP. ORNAMENTAL METAL FENCE

1/4" = 1'-0"

10



GATE HASP & BOLT

3" = 1'-0"

G204107

5

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3x3x1/4 HSS POST TYP AT GATE

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DRAWN BY: ARW
DRAWING SCALE:
PTN: 69070-97

DSA BACKCHECK
10/17/17

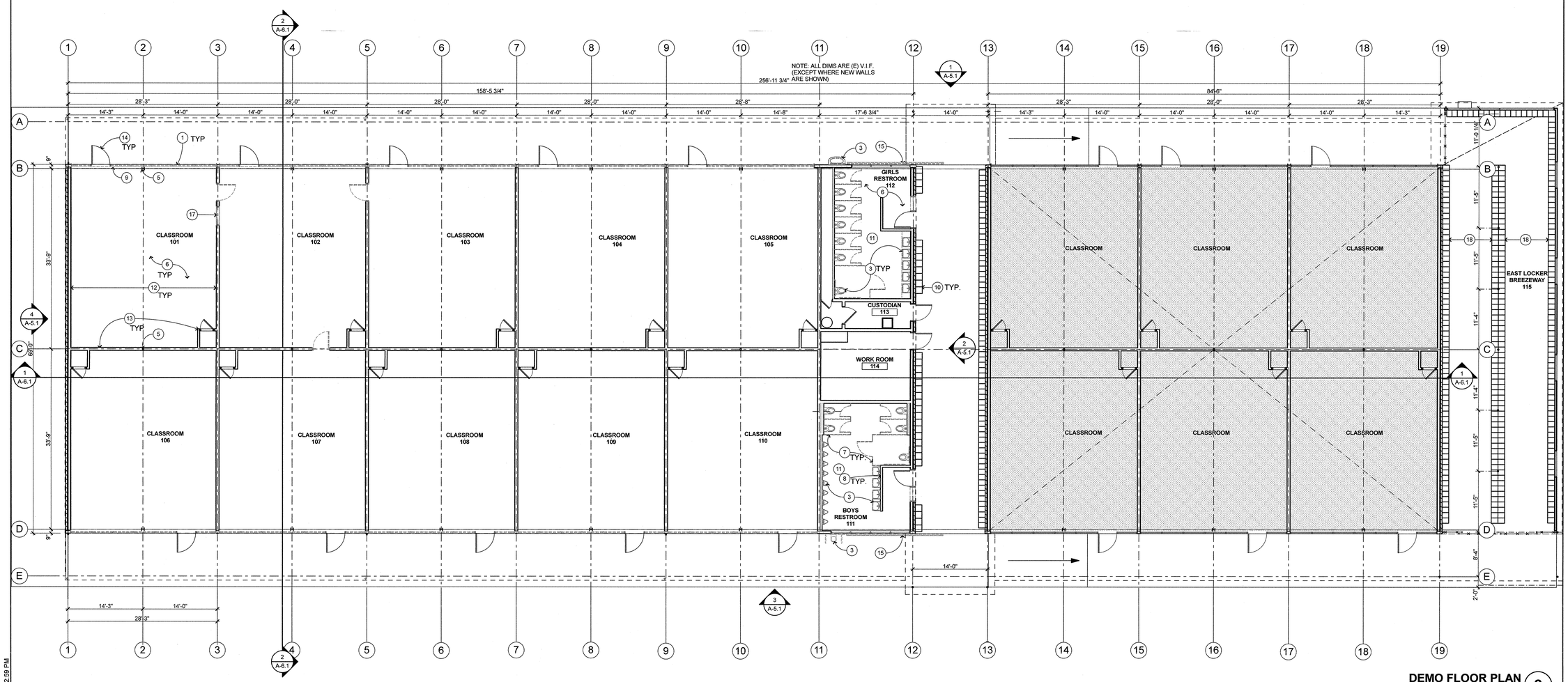
SHEET TITLE

ENLARGED PLANS & DETAILS

SHEET NUMBER

A-1.2

P:\1277.04 - Parkway Heights MS Modern 4Ph 2, SSFUSD\Drawings\04-CD\1277.04 Parkway Heights Site.pln;11/7/2017 2:56 PM



DEMO FLOOR PLAN 2

1/8" = 1'-0"

DEMO KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

1. REMOVE (E) STOREFRONT, WEST OF GRID LINE 12 AND THRESHOLDS, (E) EXTERIOR DOORS HARDWARE AND FRAMES TO REMAIN, SEE DOOR AND WINDOW DETAILS.
2. MECHANICAL ITEM TO REMAIN: PRESERVE AND PROTECT, S.M.D.
3. PLUMBING ITEM / FIXTURE TO BE REMOVED
4. REMOVE ALL ELECTRICAL ITEMS, WEST OF GRID LINE 12 WITH EXCEPTION OF JANITOR AND WORK ROOM SECURITY CAMERA SYSTEM S.E.D.
5. ALL (E) STRUCTURAL ITEM: PRESERVE AND PROTECT
6. REMOVE (E) FLOOR FINISH WEST OF GRID LINE 11
7. REMOVE TOILET PARITITIONS
8. REMOVE RESTROOM ACCESSORIES
9. REMOVE (E) WINDOW COVERING WEST OF GRID LINE 12
10. (E) LOCKERS TO REMAIN
11. REMOVE CERAMIC TILE FLOORING, MORTOR BEAM AND PORTIONS OF CONCRETE SLAB AS REQUIRED TO PROVIDE NEW PLUMBING S.M.D.
12. REMOVE WEST AND EAST CLASSROOM WALL FINISH AND INSULATION RETAINING ONLY STRUCTURAL STUDS (TYP.)
13. RETAIN (E) FINISHES OF FURNACE ROOMS, SOFFIT AND WALL ALONG GRIDLINE C
14. DOORS, FRAMES, AND HARDWARE TO BE PRESERVED AND REMAIN
15. REMOVE ROLLING GATE AND WALL MOUNTED HARDWARE
16. SALVAGE FIRE EXTINGUISHER AND CABINET FOR RE-INSTALLATION (10 CABINETS AND 9 EXTINGUISHERS, 1 CABINET DOOR TO BE REPAIRED)
17. REMOVE WINDOW AND FRAME

DEMO GENERAL NOTES

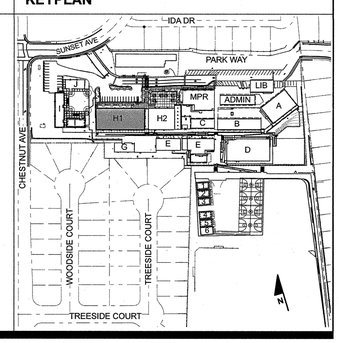
1. NEATLY CUT AND REMOVE SURFACES AND FINISHES AS REQUIRED OR TO A NATURAL POINT OF DIVISION TO ENABLE INSTALLATION OF BLOCKING, BACKING, FRAMING, SHEATHING, UTILITIES OR OTHER CONCEALED WORK, WHETHER SPECIFICALLY SHOWN OR INFERRED FOR SUPPORT OR RENOVATION. REFER TO ELECTRICAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR CONCEALED WORK NOT SHOWN ON ARCHITECTURAL DRAWINGS.
2. REPAIR AND REPLACE ALL EXISTING SURFACES AND FINISHES TO EXISTING UNDISTURBED WORK.
3. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDCATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATIONS OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
4. TOILET ROOM INT WALLS - REMOVE ALL FIXTURES, FITTINGS AND FINISHES TO BARE STUDS. *REMOVE (E) WALL INSULATION.*
5. FLOORS - REMOVE ALL (E) FLOOR FINISHES, BASES, AND THRESHOLDS WHERE FLOORING IS TO BE BE REMOVED INCLUDING TERRAZZO FLOORS AT RESTROOMS

DEMOLITION LEGEND

ALL NEW FRAMING IS 2x6 STUDS, U.O.N. S.S.D. FOR WOOD FRAMING SIZES

- (E) ITEM TO BE DEMOLISHED
- (E) WOOD FRAMED WALL AND ASSOCIATED WORK TO BE DEMOLISHED, PATCH & REPAIR FLOOR AS REQ
- (E) CONC WALL; PRESERVE AND PROTECT; PAINT
- (E) EXT WD WALL WITH MASONRY VENEER; PROTECT EXT REMOVE INTERIOR FINISH DOWN TO STUD, TYP
- (E) INT WD WALL ; PROTECT STUDS REMOVE INTERIOR FINISH DOWN TO STUD, TYP AT ALL INT WALLS AND INTERIOR SURFACES ON EXT WALLS, U.O.N.
- (E) DOOR/FRAME TO REMAIN, SEE NEW WORK FLOOR PLAN & DOOR SCHEDULE
- (E) BUILDING AREA, NO INTERIOR FINISH OR EXTERIOR ENVELOP MODIFICATIONS
- APPROX AREAS OF CONCRETE SAWCUT WORK, COORD W/ STRUCTURAL & PLUMBING DWGS, V.I.F.

KEYPLAN



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EXP. JUNE 30, 2019
STATE OF CALIFORNIA

SIGNED: 11/09/17

Parkway Heights Middle School

Modernization Phase 2

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South San Francisco, CA 94080
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South San Francisco Unified School District

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AC FLR SS
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ARCH PROJECT NO: 1277.04
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DRAWING SCALE:
PTN: 69070-97

DSA BACKCHECK
11/09/17

SHEET TITLE

DEMO FLOOR PLAN

SHEET NUMBER

A-2.0

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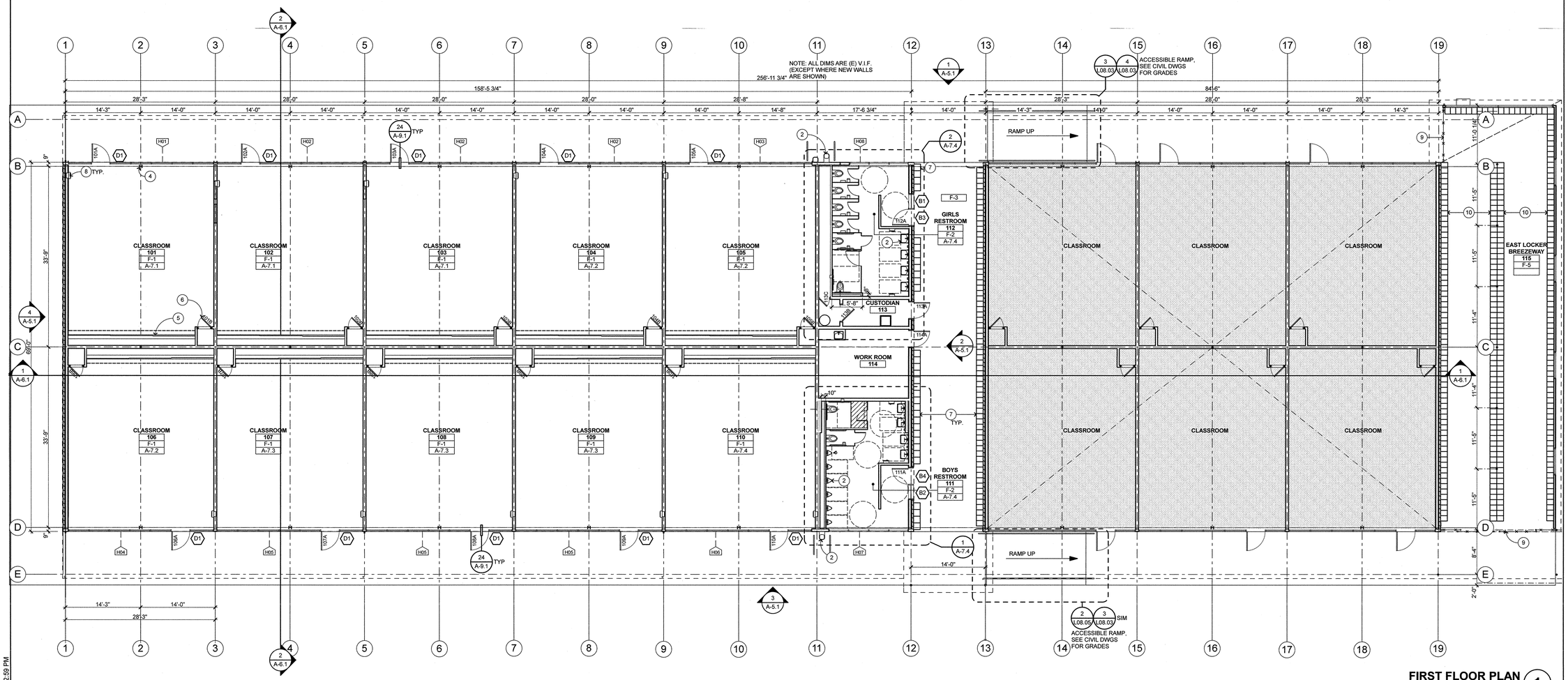


FIRST FLOOR PLAN 1

1/8" = 1'-0"

TRUE NORTH

PLAN NORTH

FLOOR PLAN KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

1. MECHANICAL ITEM, S.M.D.
2. PLUMBING ITEM / FIXTURE, S.P.D.
3. ELECTRICAL ITEM, S.E.D.
4. STRUCTURAL ITEM, S.S.D.
5. TEACHING WALL, SEE 3 / A-10.2
6. (E) FURNACE CLOSET
7. (E) LOCKERS: PRESERVE AND PROTECT; PAINT
8. INSTALL SALVAGED FIRE EXTINGUISHER CABINET AND (N) EXTINGUISHER; TYPE 2A-10BC W/ VALID CERTIFICATION TAG
9. (E) SECURITY GATE: REPAIR AND PROTECT
10. OWNER TO REMOVE, REPAIR AND REINSTALL ALL LOCKERS THIS AREA

FLOOR PLAN GENERAL NOTES

1. EXTERIOR CONCRETE FLATWORK SHALL HAVE A MAXIMUM SLOPE OF 1:20, U.N.O.: EXTERIOR DOOR LANDINGS SHALL SLOPE 1/4" PER FOOT FOR 60" PERPENDICULAR TO DOOR FACE, MAXIMUM FOR DRAINAGE. CONCRETE SHALL SLOPE MINIMUM 1/8" PER FOOT AWAY FROM BUILDINGS. S.C.D.
2. FINISHED FLOOR ELEVATIONS SHOWN INDICATE FLOOR SLABS FOR THIS BUILDING. FOR ELEVATIONS RELATIVE TO THE REST OF THE SITE, REFER TO CIVIL ENGINEERING DRAWINGS.
3. REFER TO CIVIL ENGINEERING DRAWINGS AND SITE PLAN FOR SITE FEATURES NOT OTHERWISE INDICATED.
4. ALL INTERIOR WALL FRAMING AND GYP.BD. EXTEND TO UNDERSIDE OF ROOF SHEATHING ABOVE, U.O.N.

WALL TYPE LEGEND

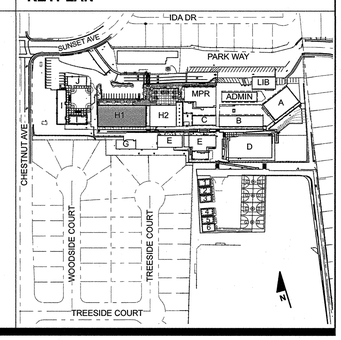
ALL WOOD FRAMING IS 2X6 STUDS, U.O.N. S.S.D. FOR WOOD FRAMING SIZES ALL WOOD PARTITIONS SHALL BE PROVIDED FULL DEPTH BATT INSULATION - SEE SPECIFICATIONS

- (E) CONC WALL
- (E) EXT WD WALL WITH CONC VENEER
- (E) WOOD FRAMING
- INT WOOD FRAMING 9 / A-10.1
- 2X6 2X6 STUD SIZE, U.O.N.
- (E) BUILDING AREA, NO INTERIOR FINISH OR EXTERIOR ENVELOP MODIFICATIONS
- B1 ROOM / BUILDING ACCESSIBLE SIGNAGE TYPE B1. ACCESSIBLE SIGNAGE DETAIL 18 / A-9.1 FOR GLASS INSTALLATION SEE 22 / A-9.1

FLOOR FINSH CODES

- F-1 VINYL COMPOSITION TILE; (12"x12") 3 / A-10.1
- F-2 2" X 2" CERAMIC TILE
- F-3 (E) CONCRETE: PATCH AND REPAIR

KEYPLAN



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DRAWING SCALE:
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DSA BACKCHECK
11/09/17

SHEET TITLE

FLOOR PLAN

SHEET NUMBER

A-2.1

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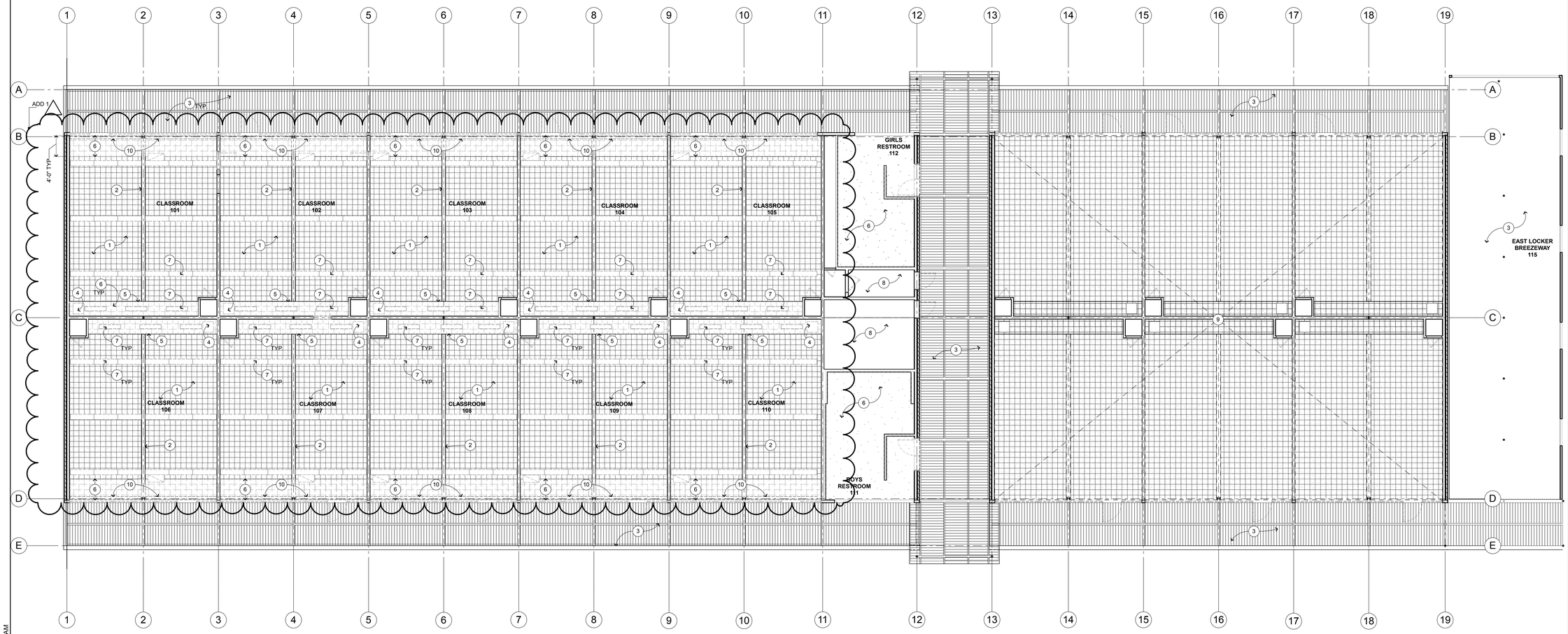


DEMO FIRST FLOOR RCP 2

1/8" = 1'-0"

DEMO REFLECTED CEILING PLAN KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET.

1. (E) ACOUSTICAL CEILING TILE & (E) 1X3 FURRING TO REMAIN. PROTECT MOST (E) CONDUIT, WIRING & BOX. SEE ELEC. DWG. REMOVE (E) FIRE ALARM SYSTEM. SMD & SED. — ADD 1
2. (E) BEAM TO REMAIN, PROTECT IN PLACE. REMOVE (E) GYP BD AT EXPOSED LOCATIONS WHERE OCCURS
3. REMOVE EXTERIOR LIGHTING FIXTURES (TYP)
4. (E) SOFFIT ACCESS HATCH TO BE REMOVED TO ALLOW FOR TEACHING WALL - INFILL AND FINISH TO MATCH ADJACENT SURFACES - INFILL AND FINISH TO MATCH ADJACENT MATERIALS
5. (E) SOFFIT, REMOVE ACOUSTIC TILE: RETAIN REMAINDER OF (E) FINISH — ADD 1
6. REMOVE ACOUSTICAL CEILING TILE. (E) 1X3 FURRING TO REMAIN; PROTECT
7. REMOVE (E) INTERIOR LIGHT FIXTURES WEST OF GRID LINE 12, SED.
8. (E) CLG. FINISHES TO REMAIN.
9. (E) CLG FINISHES AND FIXTURES TO REMAIN
10. REMOVE (E) VERTICAL BLINDS (TYP) — ADD 1

REFLECTED CEILING DEMO GENERAL NOTES

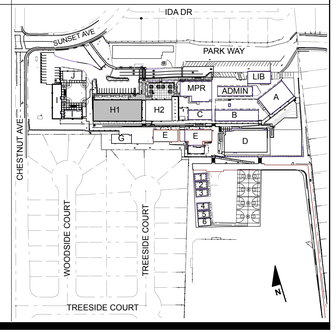
1. NEATLY CUT AND REMOVE SURFACES AND FINISHES AS REQUIRED OR TO A NATURAL POINT OF DIVISION TO ENABLE INSTALLATION OF BLOCKING, BACKING, FRAMING, SHEATHING, UTILITIES OR OTHER CONCEALED WORK, WHETHER SPECIFICALLY SHOWN OR INFERRED FOR SUPPORT OR RENOVATION. REFER TO ELECTRICAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR CONCEALED WORK NOT SHOWN ON ARCHITECTURAL DRAWINGS.
2. REPAIR AND REPLACE ALL EXISTING SURFACES AND FINISHES TO EXISTING UNDISTURBED WORK.
3. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDCATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATIONS OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.

DEMOLITION LEGEND

ALL NEW FRAMING IS 2x6 STUDS, U.O.N. S.S.D. FOR WOOD FRAMING SIZES

- (E) ITEM TO BE DEMOLISHED
- (E) WOOD FRAMED WALL AND ASSOCIATED WORK TO BE DEMOLISHED, PATCH & REPAIR FLOOR AS REQ
- (E) CONC WALL; PRESERVE AND PROTECT; PAINT
- (E) EXT WD WALL WITH CONC VENEER; PROTECT EXT REMOVE INTERIOR FINISH DOWN TO STUD, TYP
- (E) INT WD WALL ; PROTECT STUDS REMOVE INTERIOR FINISH DOWN TO STUD, TYP AT ALL INT WALLS AND INTERIOR SURFACES ON EXT WALLS
- (E) 6" T&G: PRESERVE AND PROTECT — ADD 1
- 12"x12" GLUE ON ACOUSTIC TILE TO BE DEMOLISHED
- (E) GYP BD TO BE REMOVED
- (E) CLG. FINISH TO REMAIN — ADD 1
- 12"x12" GLUE ON ACOUSTIC TILE AND 1x3 FURRING STRIPS TO REMAIN

KEYPLAN



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DATE ____

1	2-15-18	ADDENDUM 1

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE:
PTN: 69070-97

DSA BACKCHECK
11/09/17

SHEET TITLE

DEMO REFLECTED CEILING PLAN

SHEET NUMBER
ADD 01
01.01
A-3.0

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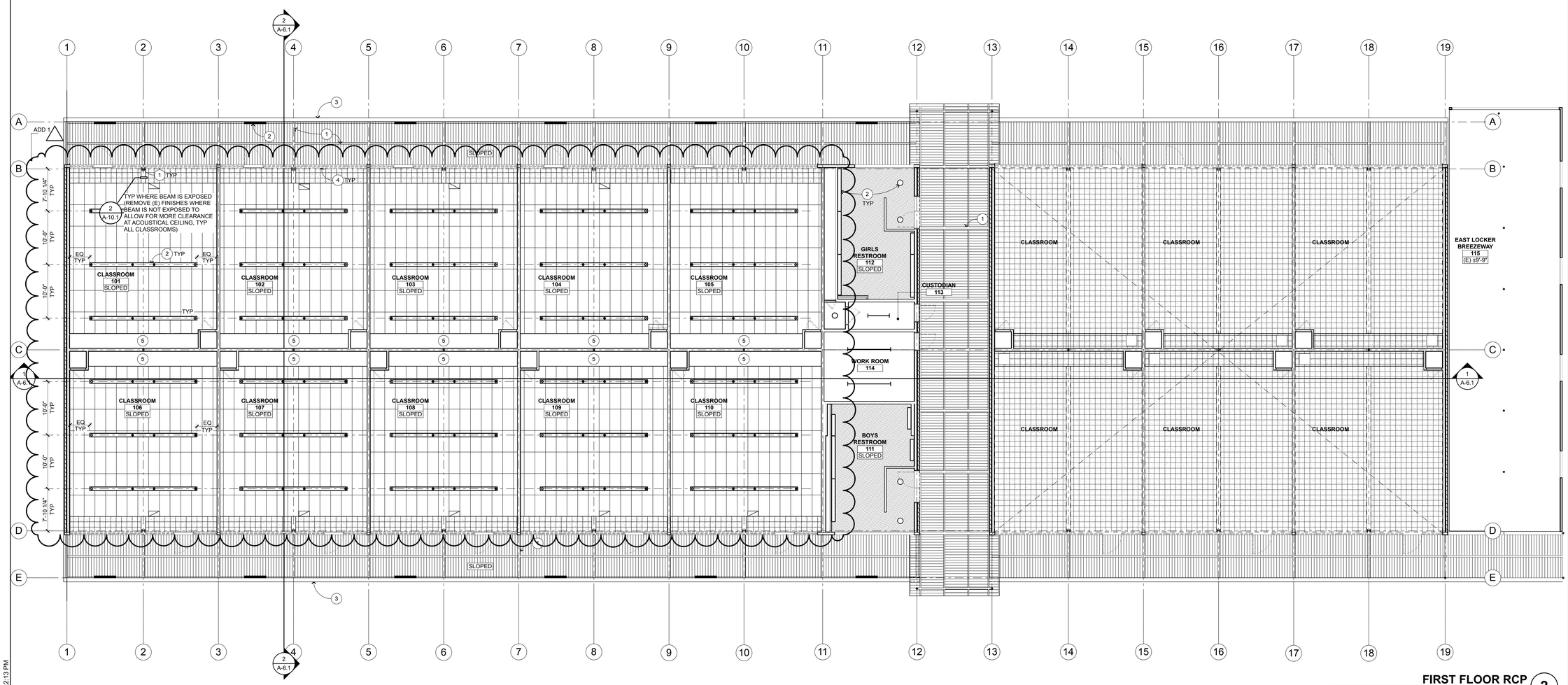


FIRST FLOOR RCP 2

1/8" = 1'-0"

REFLECTED CEILING PLAN KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

1. (E) EXPOSED STRUCTURE, PRESERVE AND PROTECT, PAINT
2. ELECTRICAL ITEM, S.E.D.
3. (E) GUTTER: PRESERVE AND PROTECT, PAINT
4. ROLLER SHADE: SEE 10 A-9.1 / 2 A-9.1
5. REPAIR AND REFINISH (E) SOFFIT FINISH AS REQ'D; PAINT

REFLECTED CEILING PLAN GENERAL NOTES

1. NOTES & SYMBOLS ARE TO APPLY TO ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDACY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
2. PENDANT LIGHT FIXTURE LOCATION DIMENSIONS ARE NOMINAL. VERIFY IN FIELD TO MAINTAIN 45° SWING CLEARANCES TO FIXED ELEMENTS.
3. S.E.D. FOR HORNS, SPEAKERS, PULL STATIONS, LIGHT FIXTURES AND OTHER FEATURES NOT OTHERWISE SHOWN.
4. S.E.D. FOR EXIT SIGNS & EMERGENCY LIGHTING CONDITIONS.
5. S.M.D. FOR PIPING, REGISTERS & VENTS NOT OTHERWISE SHOWN. MECHANICAL DUCT LOCATION DIMENSIONS ARE NOMINAL. VERIFY IN FIELD TO MAINTAIN CLEARANCES TO FIXED ELEMENTS.
6. CBC TABLE 601- ROOFS AND THEIR MEMBERS OTHER THAN THE STRUCTURAL FRAME MAY BE OF UNPROTECTED NON-COMBUSTIBLE MATERIALS WHEN EVERY PART OF ROOF FRAMING INCLUDING THE STRUCTURAL FRAME IS 20 FEET OR MORE ABOVE THE FLOOR IMMEDIATELY BELOW

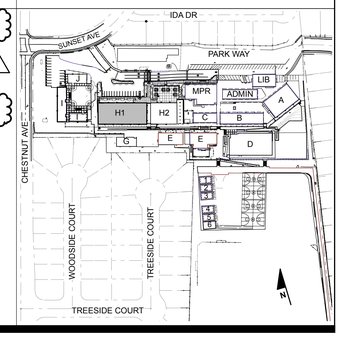
REFLECTED CEILING PLAN LEGEND

- 10'-0" / ROOM NAME / ROOM # / X'-X" — CL-XX REFERS TO CEILING FINISH CODE SEE BELOW. X'-X" REFERS TO FINISHED CEILING HEIGHT AFF. WHERE CEILING HEIGHT IS INDICATED AS "OPEN" OR " - ", ROOM IS OPEN TO STRUCTURE ABOVE. FOR CEILING CONFIGURATION & HEIGHT WHERE CEILING HEIGHT IS INDICATED AS CURVED, SLOPING, OR VARIES, REFER TO SECTION DRAWINGS.
- GYP BD OVER (E) FRAMING
- 12"x12" GLUE ON ACOUSTIC TILE OVER (E) 1X3 FURRING STRIPS, SEE FINISH CODES
- (E) 6" T&G: PRESERVE AND PROTECT; PAINT — ADD 1
- (E) CONDITIONS TO REMAIN: NO NEW FINISHES
- 2'x4 SUSPENDED CEILING SYSTEM W/ ACOUSTIC TILE, SEE FINISH CODES — ADD 1
- DOORS SHOWN DASHED INDICATE DOOR BELOW. FOR DEMO, (E), AND (N) DOOR/FRAME INFORMATION SEE FLOOR PLANS & DOOR SCHEDULE
- ELECTRICAL ITEMS, S.E.D.
- MECHANICAL ITEMS, S.M.D.
- FIRE SPRINKLERS, S.F.P.D.

CEILING FINSH CODES FOR PAINT FINISHES SEE SEC. 09900

- CL-1 12"X12" GLUE ON ACOUSTIC TILE O/ (E) 1x3 FURRING STRIPS
- ALIGN JOINTS WITH SUSP CEILING JOINTS
- CL-2 GYPSUM BOARD O/ (E) FRAMING
- CL-3 (E) T&G: PRESERVE, PROTECT AND PAINT — ADD 1
- CL-4 (E) GYPSUM BOARD: PAINT
- CL-5 (E) PLASTER: PAINT
- CL-6 2X4 SUSPENDED ACOUSTIC CEILING TILE: SEE 8 A-10.3

KEYPLAN



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Modernization Phase 2

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1	2-15-18	ADDENDUM 1

ARCH PROJECT NO: 1277.04
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DRAWING SCALE:
PTN: 69070-97

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11/09/17

SHEET TITLE

REFLECTED CEILING PLAN

SHEET NUMBER
ADD 01
01.02
A-3.1

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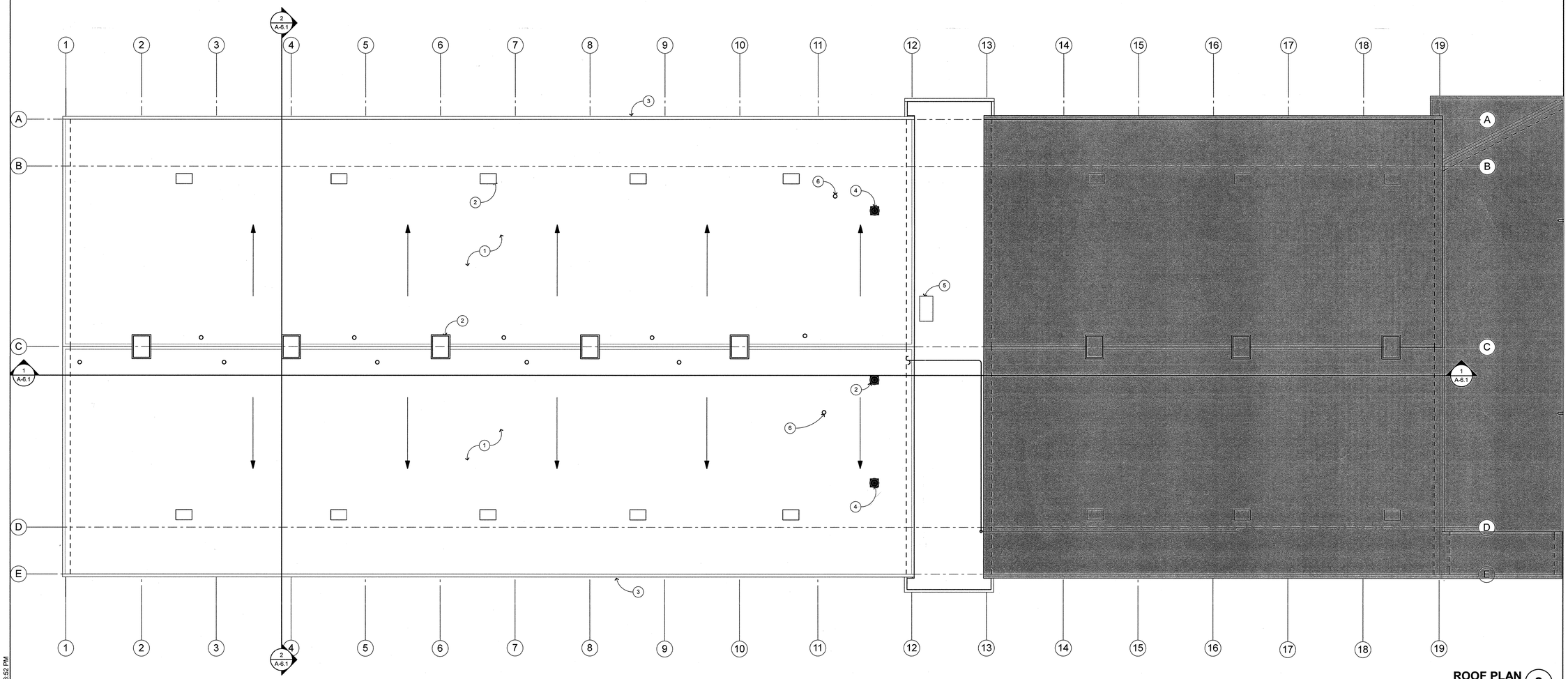


ROOF PLAN 2

1/8" = 1'-0"

ROOF PLAN KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

1. (E) ROOF TO REMAIN: EXCEPT WHERE THERE ARE NEW ROOF PENETRATIONS - OR REMOVAL OF (E) PENETRATIONS AND NEW ASSOCIATED ROOF WORK AS NECESSARY. PATCH AND REPAIR ROOF WHERE DAMAGED
2. (E) MECHANICAL ITEMS (S.M.D.); TYP
3. (E) GUTTER AND DOWNSPOUTS TO REMAIN: PRESERVE, PROTECT AND PAINT
4. MECHANICAL EQUIPMENT CURB (S.M.D.) — B / MP-5.1
5. CONDENSING UNIT (S.M.D.) — C / MP-5.1; 15 / A-9.1; SIM
6. PLUMBING UNIT (S.P.D.) — 20 / A-9.1

ROOF PLAN GENERAL NOTES

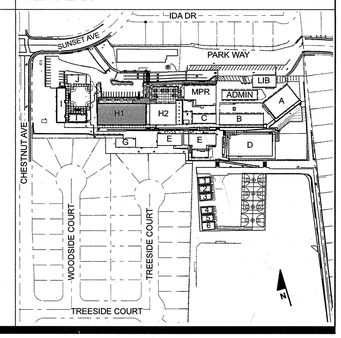
1. ALL PATCH AND REPAIR ROOFING TO BE CLASS A.
2. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ROOF PENETRATION LOCATIONS NOT OTHERWISE INDICATED, TYPICAL.
3. MECHANICAL UNIT MOUNTING CURBS PER 15 / A-9.1 C / MP-5.1 S.M.D.
4. MECHANICAL OR PLUMBING VENT FLASHING, BOOTS, SEE 20 / A-9.1

ROOF PLAN LEGEND

(E) GRAVEL O/ (E) MEMBRANE ROOFING O/ (E) SLOPED FRAMING. PATCH AND REPAIR TO ALLOW FOR MECHANICAL AND PLUMBING IMPROVEMENTS

NO MODIFICATIONS OR REPAIR OF ROOFING

KEYPLAN



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SHEET TITLE

ROOF PLAN

SHEET NUMBER

A-4.1

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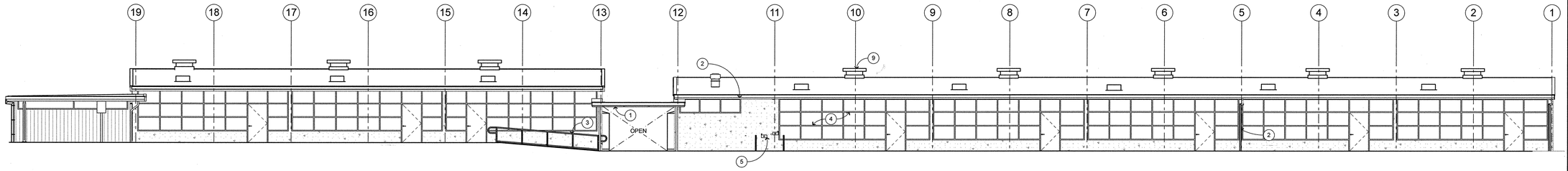
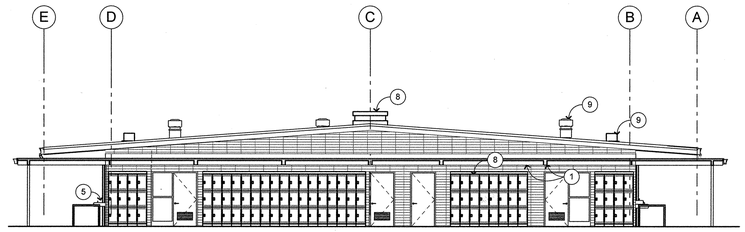
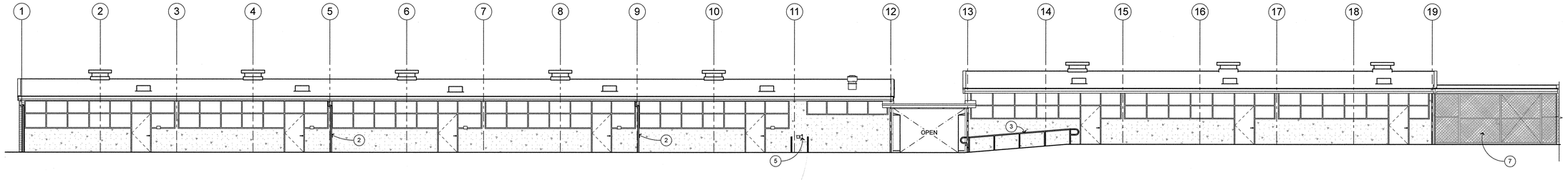


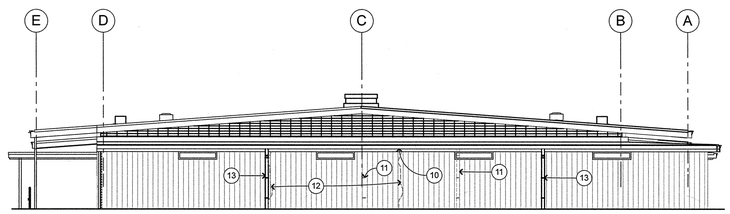
NORTH ELEVATION 1
1/8" = 1'-0"



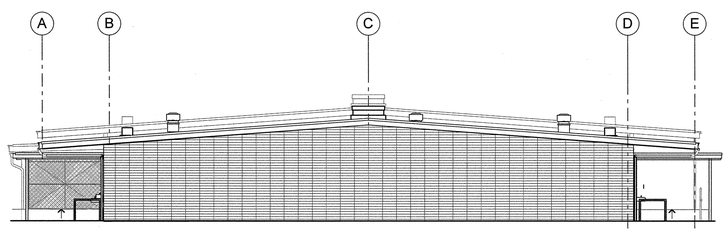
EAST ELEVATION BLDG H1 2
1/8" = 1'-0"



SOUTH ELEVATION 3
1/8" = 1'-0"



EAST ELEVATION AT LOCKER ENCLOSURE 7
1/8" = 1'-0"



WEST ELEVATION 4
1/8" = 1'-0"

EXTERIOR ELEVATION KEYNOTES

NOT ALL KEYNOTES MAY BE USED ON ALL SHEETS

1. (E) EXPOSED STRUCTURE: PAINT
2. (E) EXPOSED GUTTER, FLASHING AND DOWNSPOUT: REPAIR IN-KIND AS REQ'D. PRESERVE, PROTECT & PAINT
3. HANDRAIL; S.L.D.
4. ALUM DOOR AND STOREFRONT: SEE WINDOW SCHEDULE
5. DRINKING FOUNTAIN: SEE 25/A-9.1 AND S.P.D. 19/A-9.1
6. LIGHT FIXTURE, S.E.D.
7. (E) SECURITY GATES: REPAIR AS REQ'D. PRESERVE, PROTECT & PAINT
8. (E) LOCKERS TO REMAIN: PRESERVE, PROTECT & PAINT
9. MECH ITEM; S.M.D.
10. REMOVE (E) GUTTER AND REPLACE IN KIND
11. REMOVE (E) RWL AND MISC BRACKETS: PATCH AND REPAIR
12. REMOVE WARPED SIDING AND REPLACE IN KIND
13. RWL TO MATCH (E): SEE 13/A-1.2 SIM

EXTERIOR ELEVATION GENERAL NOTES

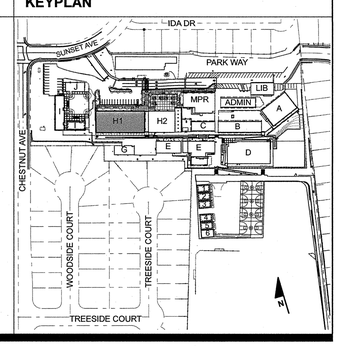
1. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
2. ALL PENETRATIONS THROUGH EXTERIOR ROOF AND WALLS, AND FLOORS SHALL BE FLASHED AND SEALED WEATHER TIGHT. ALL PENETRATIONS THROUGH THE BUILDING INSULATION ENVELOPE SHALL BE PACKED WITH INSULATION.
3. REFER TO MECHANICAL DRAWINGS FOR REGISTERS AND VENTS NOT OTHERWISE SHOWN.
4. REFER TO ELECTRICAL DRAWINGS FOR HORNS, SPEAKERS, PULL STATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.

EXTERIOR ELEVATION LEGEND

(E) CONC WALL: PAINT

(E) BRICK VENEER: REPAIR DAMAGED AND PAINT

KEYPLAN



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DRAWING SCALE:
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DSA BACKCHECK
11/09/17

SHEET TITLE

EXTERIOR ELEVATIONS

SHEET NUMBER

A-5.1

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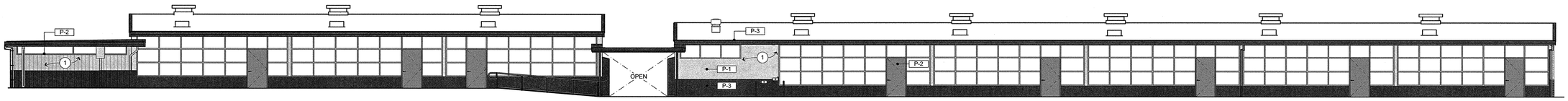
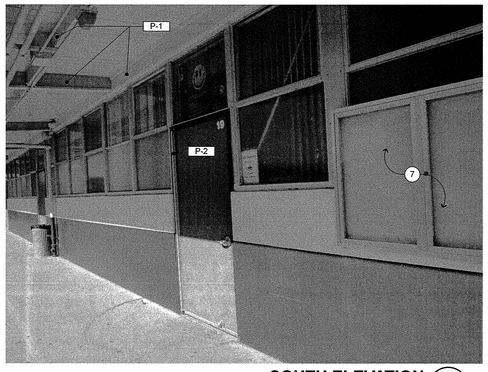
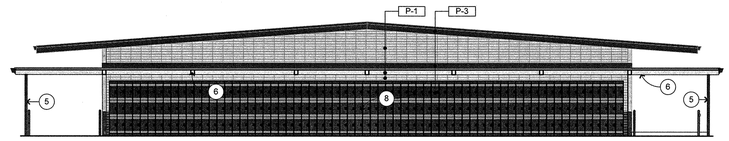


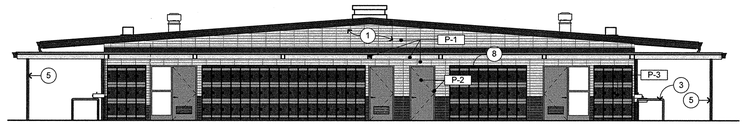
NORTH ELEVATION 1
1/8" = 1'-0"



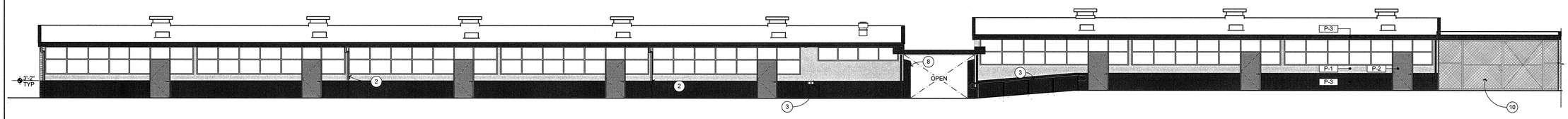
SOUTH ELEVATION A



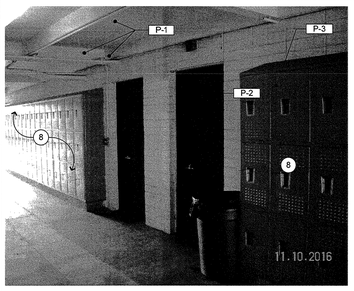
WEST ELEVATION AT BLDG H2 6



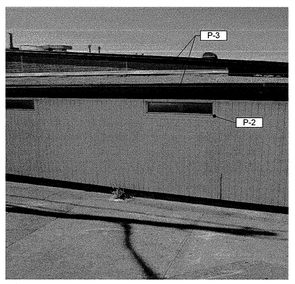
EAST ELEVATION BLDG H1 2
1/8" = 1'-0"



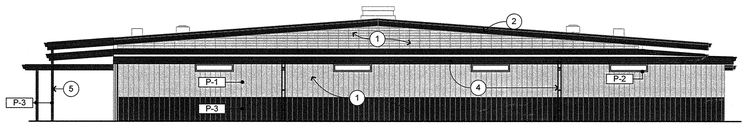
SOUTH ELEVATION 3
1/8" = 1'-0"



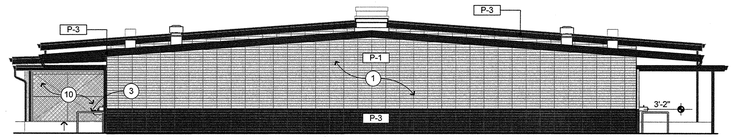
H1 EAST ELEVATION C



EAST ELEVATION AT LOCKER ENCLOSURE B



EAST ELEVATION AT LOCKER ENCLOSURE 5
1/8" = 1'-0"



WEST ELEVATION 4
1/8" = 1'-0"

GENERAL KEYNOTES

NOT ALL KEYNOTES MAY BE USED ON ALL SHEETS

1. (E) EXTERIOR WALL: PAINT
2. (E) EXPOSED GUTTER, FLASHING, FACSIA BOARD & RWL: PAINT: REFER TO EXTERIOR ELEV NOTE 21 FOR FACSIA BD
3. HANDRAIL/GUARDRAIL & D.F.: NO PAINT
4. GUTTER AND RWL TO BE PAINTED: FOR GUTTER SEE NOTE 4 & FOR RWL SEE NOTE 8
5. (E) COVERED WALKWAY COLUMNS: REFER TO EXTERIOR ELEV NOTE 9
6. (E) STURCTURE: PAINT
7. (E) DISPLAY CASE: PRESERVE AND PROTECT: NO PAINT
8. (E) LOCKERS: PAINT
9. (E) BRICK VENEER: PROTECT AND PRESERVE: SEE LEGEND
10. (E) FENCE AND GATE: PRESERVE AND PROTECT: NO PAINT

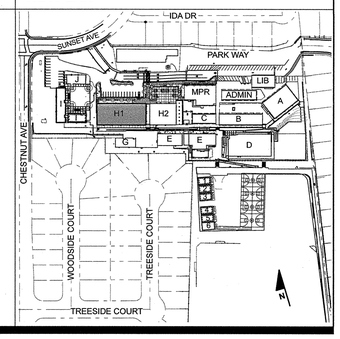
EXTERIOR ELEVATION GENERAL NOTES

1. 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 LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
2. ALL PENETRATIONS THROUGH EXTERIOR WALLS, AND FLOORS SHALL SEALED WEATHER TIGHT.
3. ALL EXPOSED ROOF FLASHING SHALL BE PAINTED P-3.
4. ALL GUTTERS TO BE PAINTED P-3
5. (E) EXTERIOR SOFFITS PAINT, T & G AT UNDERSIDE OF COVERED WALKS, ALL UNDERSIDE OF OVERHANGS & (E) STRUCTURE AT OVERHANGS ALL TO BE PAINTED P-1, UNLESS NOTED OTHERWISE.
6. PROTECT AND PRESERVE (E) SIGNAGE WHERE OCCURS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND RECORDING SUCH SIGNAGE LOCATIONS BEFORE PAINTING AND RE-INSTALL TO ORIGINAL LOCATION AS REQUIRED.
7. DO NOT PAINT ELECTRICAL LIGHT FIXTURES.
8. ITEMS NOTED TO BE PAINTED ON WALLS SHALL BE PAINTED TO MATCH ADJACENT SURFACE, TYP, U.O.N.
9. ALL EXPOSED STEEL COLUMNS, PIPING & CONDUITS TO BE PAINTED
10. PROTECT AND PRESERVE ALL (E) ALUMINUM STOREFRONT & ALUM CLOSURE PANELS. CLEAN AND SEAL AS REQ'D, DO NOT PAINT
11. PAINT ALL EXTERIOR STEEL, H.M. & WD DOORS AND FRAMES. (PAINT ALL FACES OF DOORS.)
12. FIX OR REPAIR DAMAGED EXTERIOR FINISHES, TRIMS, FLASHING PRIOR TO PAINTING.
13. CONTRACTOR TO TEMPORARILY REMOVE (E) BUILDING MOUNTED SIGNAGE, PAINT BEHIND, AND REINSTALL.
14. PAINT ALL EXTERIOR MECHANICAL LOUVERS TO MATCH ADJACENT SURFACE COLOR
15. REMOVE BANNERS, POSTERS AND SIGNS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND RECORDING SUCH SIGNAGE LOCATIONS BEFORE PAINTING AND RE-INSTALL TO ORIGINAL LOCATION AS REQUIRED.
16. DO NOT PAINT HOSE BIBS ON WALL WHERE OCCURS
17. PROVIDE PAINT BRUSH OUT SAMPLES FOR APPROVAL PRIOR TO PAINTING.
18. DISTRICT TO PROVIDE PAINT MOCK UP APPLIED ON EXTERIOR FINISHES FOR APPROVAL PRIOR TO PAINTING.
19. ALL (E) GUARDRAIL/HANDRAIL THAT ARE CURRENTLY PAINTED DARK GREEN IS TO BE PAINTED P-3.
20. BUILDING DIMENSIONS ARE PROVIDED FOR APPROXIMATE CONDITIONS ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS.
21. FACSIA BOARD AT FRONT, BOTTOM AND BACK SIDE TO BE PAINTED P-3 (ALL EXPOSED SURFACES)
22. INTERIOR WALLS AND CEILING OF LOCKER ENCLOSURE TO BE PAINTED P-1 LOCKERS AND COLUMNS TO BE PAINTED P-3

EXTERIOR ELEVATION LEGEND

- P-1 FIELD COLOR: DUNN EDWARDS ANTIQUE LACE DE6162
- P-2 ACCENT COLOR: DUNN EDWARDS SILVER BULLET DE6381
- P-3 ACCENT COLOR: DUNN EDWARDS FRESH EGGPLANT DE5944
- (E) BRICK VENEER SURFACE: PAINT

KEYPLAN



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SHEET NUMBER

A-5.2

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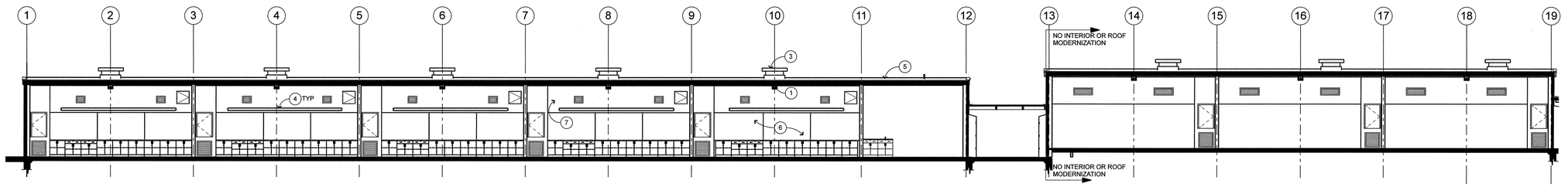
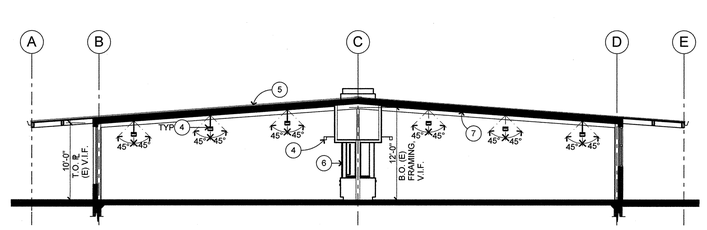


BLDG SECTION 1

1/8" = 1'-0"



BLDG CROSS SECTION 2

1/8" = 1'-0"

SECTION KEYNOTES

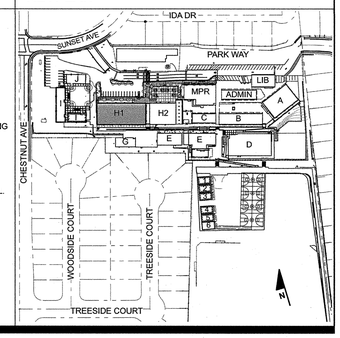
NOT ALL KEYNOTES MAY BE USED ON ALL SHEETS

1. (E) STRUCTURAL FRAMING
2. MECHANICAL DUCT, S.M.D.
3. MECHANICAL UNIT, S.M.D.
4. LIGHT FIXTURE, S.E.D.
5. (E) ROOFING, SEE ROOF PLAN
6. TEACHING WALL
7. PROVIDE FIBERGLASS BATT INSULATION AT ALL ROOF FRAMING - SEE SPECIFICATIONS

SECTION GENERAL NOTES

1. 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 LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
2. ALL PENETRATIONS THROUGH EXTERIOR ROOF AND WALLS, AND FLOORS SHALL BE FLASHED AND SEALED WEATHER TIGHT. ALL PENETRATIONS THROUGH THE BUILDING INSULATION ENVELOPE SHALL BE PACKED WITH INSULATION.
3. PROVIDE FIRESTOPPING AT CONCEALED SPACES, INCLUDING BETWEEN STAIR STRINGERS & BETWEEN STUDS WITH STAIR RUN, FURRED SPACES, CEILING/FLOOR LEVELS AND 10'-0" INTERVALS ALONG LENGTHS OF WALL, SOFFITS, DROP CEILINGS, AND COVE CEILINGS PER CBC 718.
4. REFER TO INTERIOR ELEVATIONS FOR WALL FINISHES AND INFORMATION NOT SHOWN, TYPICAL.
5. REFER TO FLOOR PLAN FOR FLOOR FINISHES, TYPICAL.
6. REFER TO REFLECTED CEILING PLAN FOR CEILING FINISHES, TYPICAL.
7. REFER TO MECHANICAL DRAWINGS FOR REGISTERS AND VENTS NOT OTHERWISE SHOWN.
8. REFER TO ELECTRICAL DRAWINGS FOR HORNS, SPEAKERS, PULL STATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.

KEYPLAN



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JIM PRESS
LICENSE # C22643
EXP JUNE 30, 2019
STATE OF CALIFORNIA

SIGNED: 11/09/17

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street South San Francisco CA 94080-4423

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116522
AC FLS SS
DATE NOV 09 2017

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE:
PTN: 69070-97

DSA BACKCHECK
11/09/17

SHEET TITLE

BUILDING SECTIONS

SHEET NUMBER

A-6.1

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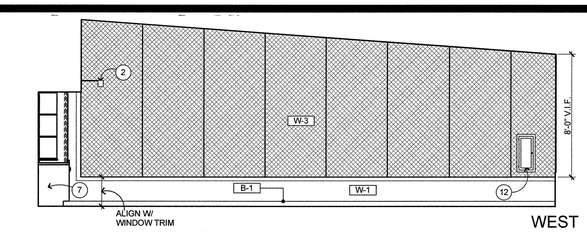

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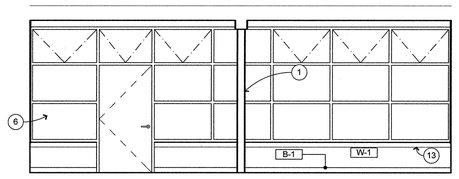

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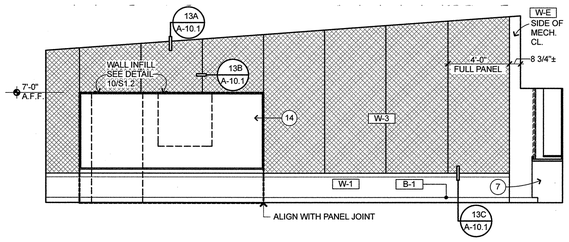

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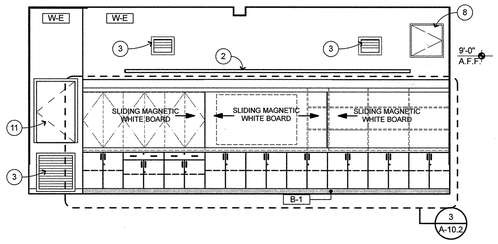
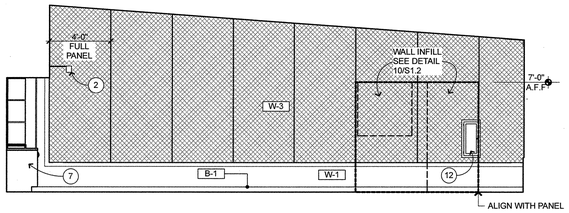


SOUTH

CLASSROOM **101**

1/4" = 1'-0" A-2.1



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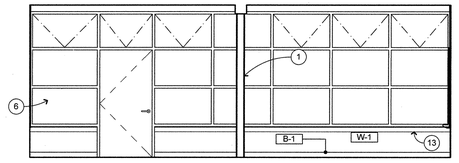


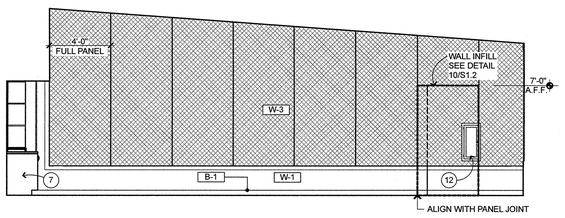
NORTH

EAST

SOUTH

CLASSROOM **102**

1/4" = 1'-0" A-2.1



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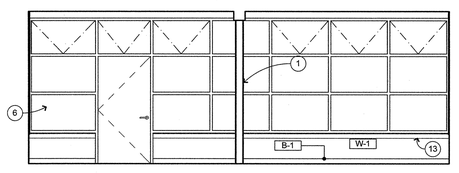

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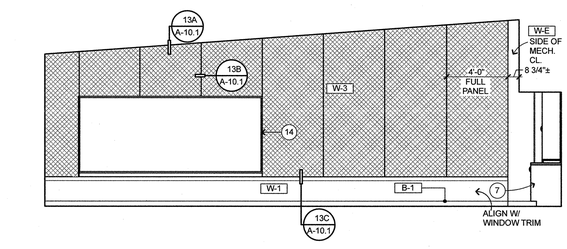

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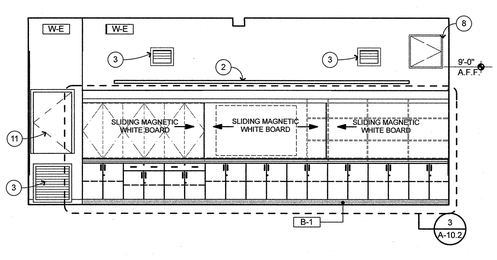


SOUTH

CLASSROOM **103**

1/4" = 1'-0" A-2.1

INTERIOR ELEVATION KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

1. STRUCTURAL ITEM, S.S.D.
2. ELECTRICAL ITEM, S.E.D.
3. MECHANICAL ITEM, S.M.D.
4. PLUMBING ITEM / FIXTURE, S.P.D.
5. ELECTRICAL ITEM, S.E.D.
6. WINDOW, SEE WINDOW SCHEDULE
7. CASEWORK
8. 24"x24" ACCESS PANEL (7 / A-10.1)
9. MIRROR
10. PARTITION WALL
11. (E) ACCESS PANEL TO REMAIN, PROTECT IN PLACE
12. INSTALL SALVAGED FIRE EXTINGUISHER CABINET AND (N) EXTINGUISHER; TYPE 2A-10BC W/ VALID CERTIFICATION TAG
13. WINDOW SILL AND APRON (2C / A-9.1)
14. 12'-0" x 5'-0" (TOP OF WAINSCOT TRIM) MARKER BOARD (20 / A-10.1)

INTERIOR ELEVATION GENERAL NOTES

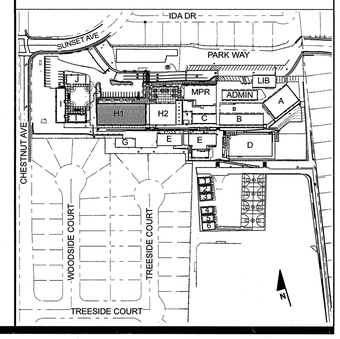
1. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
2. REFER TO MECHANICAL DRAWINGS FOR REGISTERS AND VENTS NOT OTHERWISE SHOWN.
3. REFER TO ELECTRICAL DRAWINGS FOR HORNS, SPEAKERS, PULL STATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.
4. TYPICAL MOUNTING HEIGHTS OF ACCESSIBLE ELEMENTS AT ACCESSIBLE FIXTURES SEE (1 / A-10.1)
5. FLUSH VALVE HANDLES SHALL BE LOCATED AT THE WIDE SIDE OF ACCESSIBLE STALL.
6. FLOORING & BASE SHALL EXTEND UNDER ACCESSIBLE SINK/LAVATORY BASE CABINETS TO THE WALL. HOT WATER AND DRAINPIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
7. PROVIDE SOLID BLOCKING FOR CABINET, ACCESSORY, OR EQUIPMENT MOUNTING (10 / A-10.1)

WALL AND BASE FINISH CODES

FOR PAINT FINISHES SEE SEC. 09900, ALL GYP BD TO BE TYPE 'X'

W-1	GYP BD	B-1	4" RESILIENT BASE (COVED AT RESILIENT TILE FLOORING)
W-2	8" x 8" CERAMIC TILE O/ CEMINTITIOUS BACKER UNIT	B-2	CERAMIC TILE COVE BASE (3 / A-10.1)
W-3	1/2" VINYL WRAPPED TACKABLE PANEL O/ GYP BD		
W-E	EXISTING FINISH TO REMAIN PROTECT IN-PLACE - TEXTURE AS REQ'D FOR UNIFORM FINISH AND PAINT (13 / A-10.1)		

KEYPLAN



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DRAWING SCALE:
PTN: 69070-97

DSA BACKCHECK
11/09/17

SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

A-7.1

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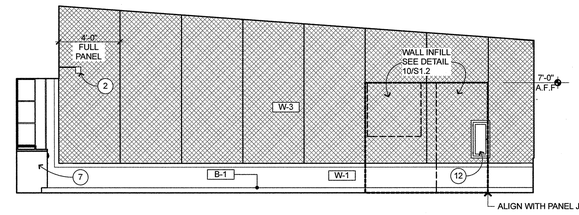

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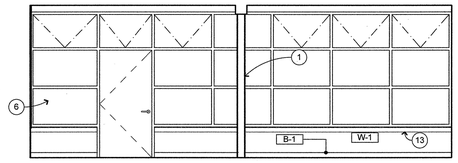

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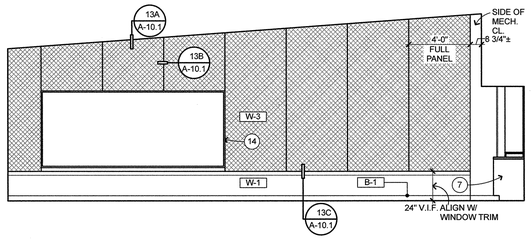

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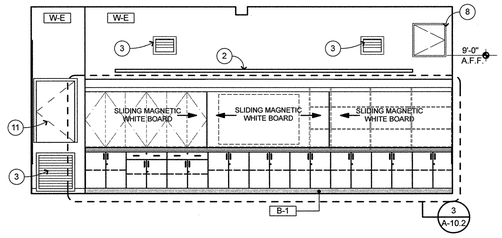
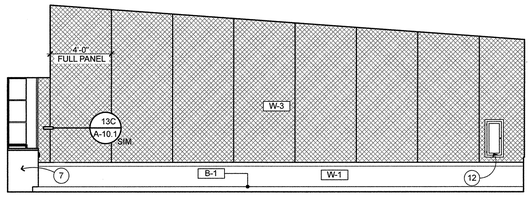


SOUTH

CLASSROOM **104**

1/4" = 1'-0" A-2.1



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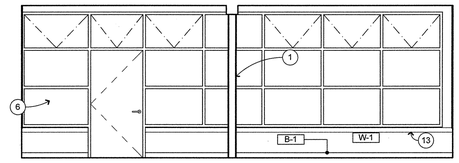


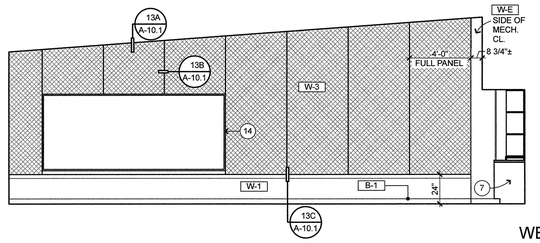
NORTH

EAST

SOUTH

CLASSROOM **105**

1/4" = 1'-0" A-2.1



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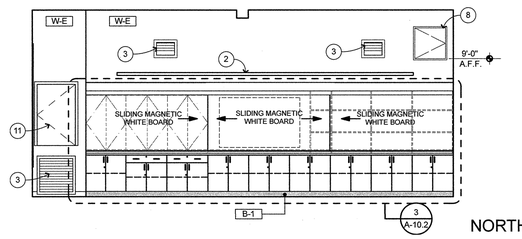

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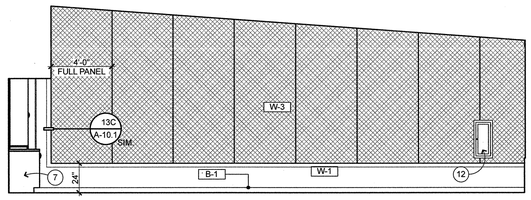

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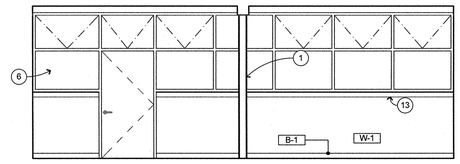

SOUTH

CLASSROOM **106**

1/4" = 1'-0" A-2.1

INTERIOR ELEVATION KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

1. STRUCTURAL ITEM, S.S.D.
2. ELECTRICAL ITEM, S.E.D.
3. MECHANICAL ITEM, S.M.D.
4. PLUMBING ITEM / FIXTURE, S.P.D.
5. ELECTRICAL ITEM, S.E.D.
6. WINDOW, SEE WINDOW SCHEDULE
7. CASEWORK
8. 24"x24" ACCESS PANEL (7 / A-10.1)
9. MIRROR
10. PARTITION WALL
11. (E) ACCESS PANEL TO REMAIN, PROTECT IN PLACE
12. INSTALL SALVAGED FIRE EXTINGUISHER CABINET AND (N) EXTINGUISHER; TYPE 2A-10BC W/ VALID CERTIFICATION TAG
13. WINDOW SILL AND APRON (2C / A-9.1)
14. 12'-0" x 5'-0" (TOP OF WAINSCOT TRIM) MARKER BOARD (20 / A-10.1)

INTERIOR ELEVATION GENERAL NOTES

1. 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 LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
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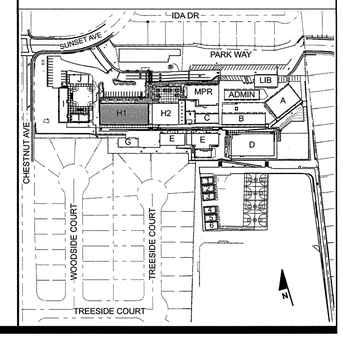
3. REFER TO ELECTRICAL DRAWINGS FOR HORNS, SPEAKERS, PULL STATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.
4. TYPICAL MOUNTING HEIGHTS OF ACCESSIBLE ELEMENTS AT ACCESSIBLE FIXTURES SEE (1 / A-10.1)
5. FLUSH VALVE HANDLES SHALL BE LOCATED AT THE WIDE SIDE OF ACCESSIBLE STALL.
6. FLOORING & BASE SHALL EXTEND UNDER ACCESSIBLE SINK/LAVATORY BASE CABINETS TO THE WALL. HOT WATER AND DRAINPIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
7. PROVIDE SOLID BLOCKING FOR CABINET, ACCESSORY, OR EQUIPMENT MOUNTING (10 / A-10.1)

WALL AND BASE FINISH CODES

FOR PAINT FINISHES SEE SEC. 09900, ALL GYP BD TO BE TYPE 'X'

- W-1 GYP BD
- W-2 8" x 8" CERAMIC TILE O/ CEMINTITIOUS BACKER UNIT
- W-3 1/2" VINYL WRAPPED TACKABLE PANEL O/ GYP BD (13 / A-10.1)
- W-E EXISTING FINISH TO REMAIN. PROTECT IN-PLACE - TEXTURE AS REQ'D FOR UNIFORM FINISH AND PAINT
- B-1 4" RESILIENT BASE (COVED AT RESILIENT TILE FLOORING)
- B-2 CERAMIC TILE COVE BASE (3 / A-10.1)

KEYPLAN



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DSA BACKCHECK
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SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

A-7.2

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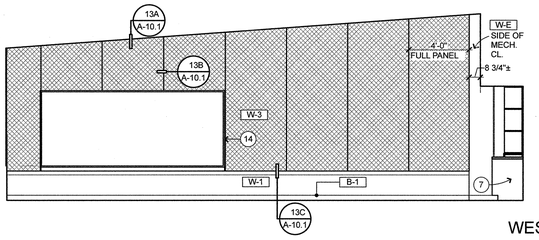

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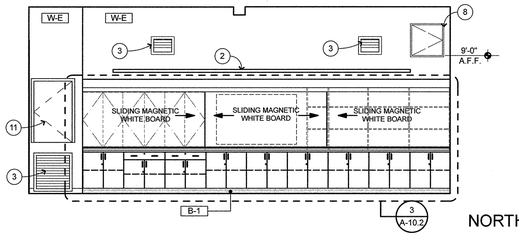

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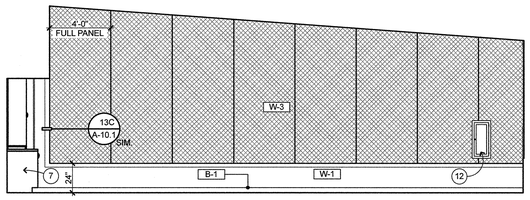

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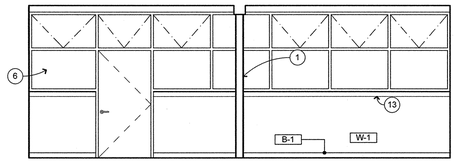
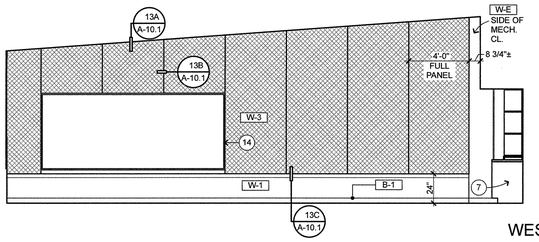


SOUTH

CLASSROOM **107**

1/4" = 1'-0" A-2.1



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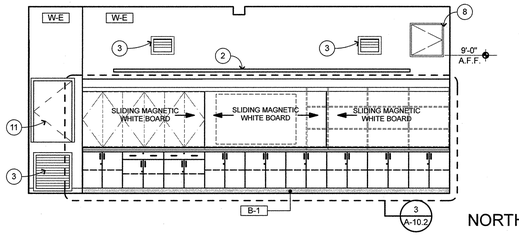

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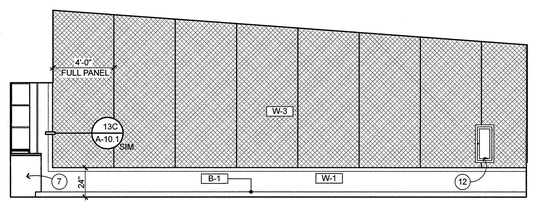

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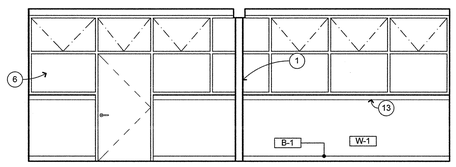
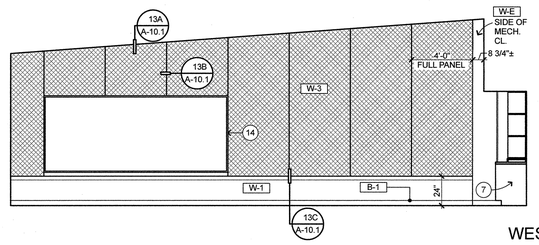


SOUTH

CLASSROOM **108**

1/4" = 1'-0" A-2.1



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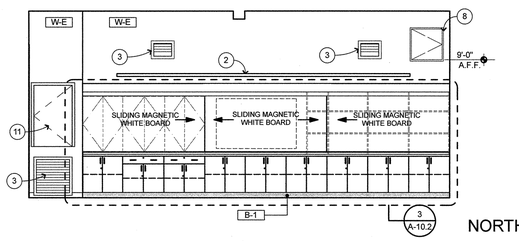

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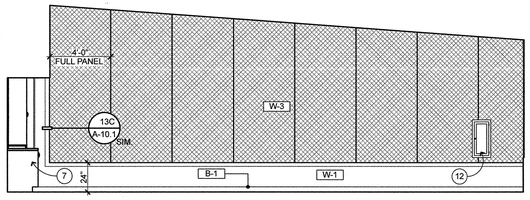

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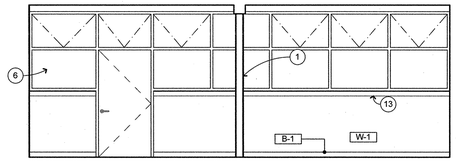


SOUTH

CLASSROOM **109**

1/4" = 1'-0" A-2.1

INTERIOR ELEVATION KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

1. STRUCTURAL ITEM, S.S.D.
2. ELECTRICAL ITEM, S.E.D.
3. MECHANICAL ITEM, S.M.D.
4. PLUMBING ITEM / FIXTURE, S.P.D.
5. ELECTRICAL ITEM, S.E.D.
6. WINDOW, SEE WINDOW SCHEDULE
7. CASEWORK
8. 24"x24" ACCESS PANEL (7 / A-10.1)
9. MIRROR
10. PARTITION WALL
11. (E) ACCESS PANEL TO REMAIN, PROTECT IN PLACE
12. INSTALL SALVAGED FIRE EXTINGUISHER CABINET AND (N) EXTINGUISHER; TYPE 2A-10BC W/ VALID CERTIFICATION TAG
13. WINDOW SILL AND APRON (2C / A-9.1)
14. 12'-0" x 5'-0" (TOP OF WAINSCOT TRIM) MARKER BOARD (20 / A-10.1)

INTERIOR ELEVATION GENERAL NOTES

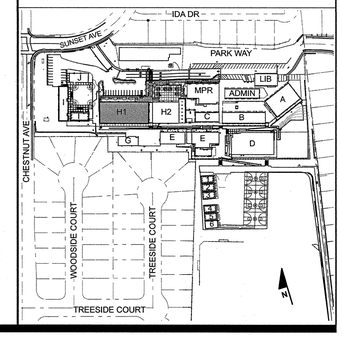
1. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
2. REFER TO MECHANICAL DRAWINGS FOR REGISTERS AND VENTS NOT OTHERWISE SHOWN.
3. REFER TO ELECTRICAL DRAWINGS FOR HORNS, SPEAKERS, PULL STATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.
4. TYPICAL MOUNTING HEIGHTS OF ACCESSIBLE ELEMENTS AT ACCESSIBLE FIXTURES SEE (1 / A-10.1)
5. FLUSH VALVE HANDLES SHALL BE LOCATED AT THE WIDE SIDE OF ACCESSIBLE STALL.
6. FLOORING & BASE SHALL EXTEND UNDER ACCESSIBLE SINK/LAVATORY BASE CABINETS TO THE WALL. HOT WATER AND DRAINPIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
7. PROVIDE SOLID BLOCKING FOR CABINET, ACCESSORY, OR EQUIPMENT MOUNTING (10 / A-10.1)

WALL AND BASE FINISH CODES

FOR PAINT FINISHES SEE SEC. 09900, ALL GYP BD TO BE TYPE 'X'

W-1	GYP BD	B-1	4" RESILIENT BASE (COVED AT RESILIENT TILE FLOORING)
W-2	8" x 8" CERAMIC TILE O/ CEMINTITIOUS BACKER UNIT	B-2	CERAMIC TILE COVE BASE (3 / A-10.1)
W-3	1/2" VINYL WRAPPED TACKABLE PANEL O/ GYP BD (13 / A-10.1)		
W-E	EXISTING FINISH TO REMAIN PROTECT IN-PLACE - TEXTURE AS REQ'D FOR UNIFORM FINISH AND PAINT		

KEYPLAN



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LICENSED ARCHITECT
JIM THEISS
LICENSE # C22643
EXP. JUNE 30, 2019
STATE OF CALIFORNIA

SIGNED:

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street South San Francisco CA 94080-4423

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116522
AC FLS SS LAC
DATE NOV 09 2017

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE:
PTN: 69070-97

DSA BACKCHECK
11/09/17

SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

A-7.3

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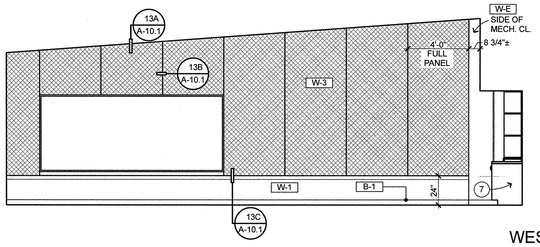

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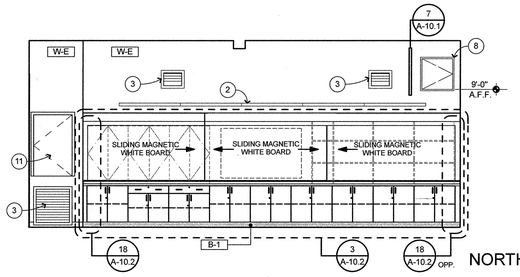

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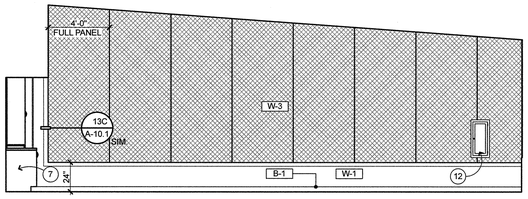

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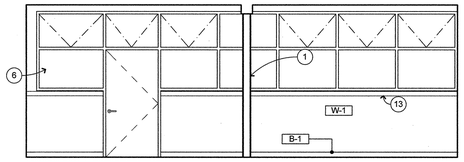
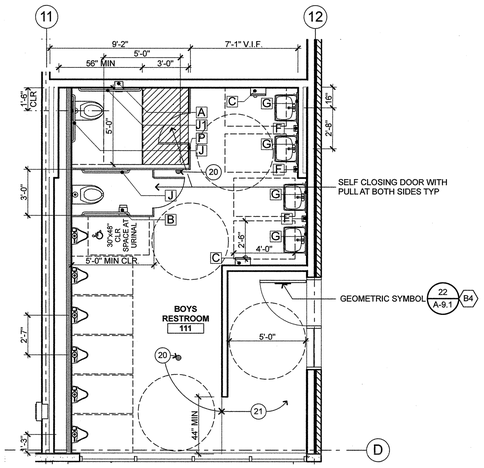


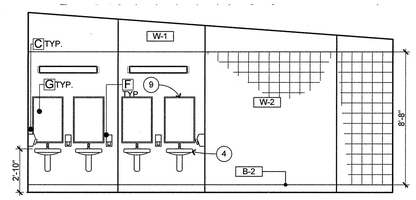
SOUTH

CLASSROOM **110**
1/4" = 1'-0" A-2.1



ENLARGED RESTROOM PLANS 1

1/4" = 1'-0"



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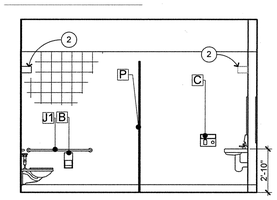

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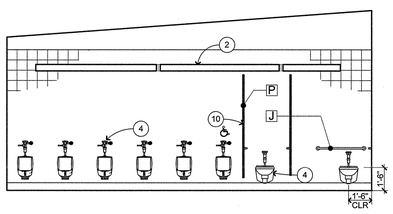

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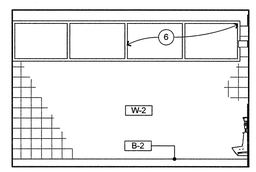
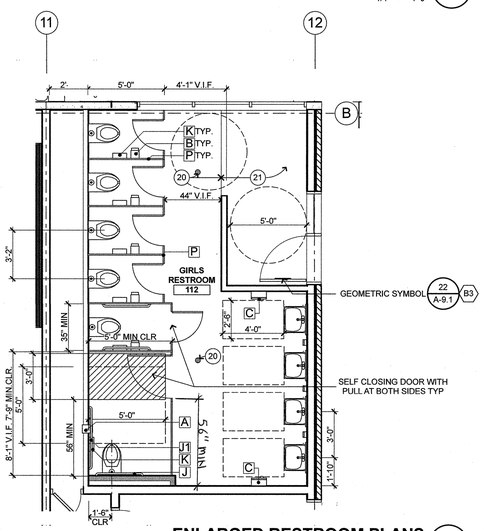


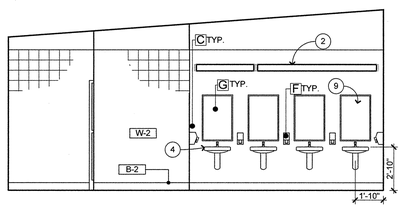
SOUTH

BOYS RESTROOM **111**
1/4" = 1'-0" A-2.1



ENLARGED RESTROOM PLANS 2

1/4" = 1'-0"



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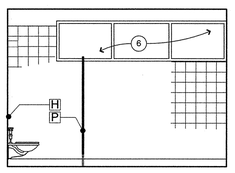

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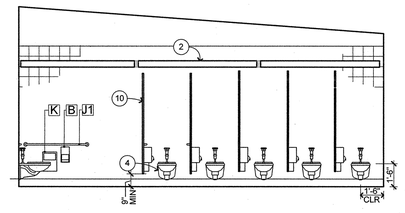

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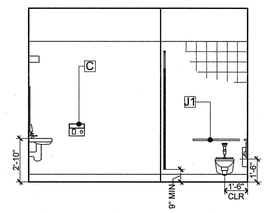


SOUTH

GIRLS RESTROOM **112**
1/4" = 1'-0" A-2.1

TOILET ROOM ACCESSORY SCHEDULE

A	TOILET PAPER DISPENSER, RECESSED (3" MAXIMUM PROJECTION)
B	TOILET PAPER DISPENSER, SURFACE MOUNTED, OFCI
C	HAND DRYER: OWNER SUPPLIED AND INSTALLED
D	NOT USED
E	NOT USED
F	SOAP DISPENSER, SURFACE MOUNTED
G	MIRROR (TYP), FOR ATTACHMENT SEE 15 A-10.1
H	NOT USED
J	36" GRAB BAR, FOR ATTACHMENT SEE 8 A-10.1
J1	42" GRAB BAR, FOR ATTACHMENT SEE 8 A-10.1
K	SANITARY NAPKIN RECEPTACLE, SURFACE MOUNTED
L	SANITARY NAPKIN RECEPTACLE, RECESSED (3" MAXIMUM PROJECTION)
P	PARTITION WALL

ENLARGED PLAN KEYNOTES

20	FLOOR DRAIN, S.P.D. SLOPE 1/8:12 TO DRAIN.
21	DO NOT SLOPE FLOOR

INTERIOR ELEVATION KEYNOTES

NOT ALL KEYNOTES MAY APPLY TO THIS SHEET

1	STRUCTURAL ITEM, S.S.D.
2	ELECTRICAL ITEM, S.E.D.
3	MECHANICAL ITEM, S.M.D.
4	PLUMBING ITEM / FIXTURE, S.P.D.
5	ELECTRICAL ITEM, S.E.D.
6	WINDOW, SEE WINDOW SCHEDULE
7	CASEWORK
8	24"x24" ACCESS PANEL 7 A-10.1
9	MIRROR
10	PARTITION WALL
11	(E) ACCESS PANEL TO REMAIN, PROTECT IN PLACE
12	INSTALL SALVAGED FIRE EXTINGUISHER CABINET AND (N) EXTINGUISHER; TYPE 2A-10BC W/ VALID CERTIFICATION TAG
13	WINDOW SILL AND APRON 2C A-9.1
14	12'-0" x 5'-0" (TOP OF WAINSCOT TRIM) MARKER BOARD 20 A-10.1

INTERIOR ELEVATION GENERAL NOTES

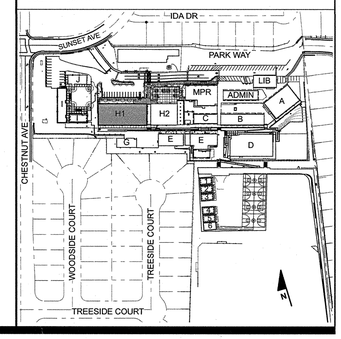
1. NOTES AND SYMBOLS ARE TO APPLY AT ALL AREAS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY OR AVOID REDUNDANCY. NO LIMITATION OF APPLICATION SHALL BE CONSTRUED WITHOUT SPECIFIC NOTATION.
2. REFER TO MECHANICAL DRAWINGS FOR REGISTERS AND VENTS NOT OTHERWISE SHOWN.
3. REFER TO ELECTRICAL DRAWINGS FOR HORNS, SPEAKERS, PULL STATIONS AND OTHER FEATURES NOT OTHERWISE SHOWN.
4. TYPICAL MOUNTING HEIGHTS OF ACCESSIBLE ELEMENTS AT ACCESSIBLE FIXTURES SEE 1 A-10.1
5. FLUSH VALVE HANDLES SHALL BE LOCATED AT THE WIDE SIDE OF ACCESSIBLE STALL.
6. FLOORING & BASE SHALL EXTEND UNDER ACCESSIBLE SINK/LAVATORY BASE CABINETS TO THE WALL. HOT WATER AND DRAINPIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
7. PROVIDE SOLID BLOCKING FOR CABINET, ACCESSORY, OR EQUIPMENT MOUNTING 10 A-10.1

WALL AND BASE FINISH CODES

FOR PAINT FINISHES SEE SEC. 09900, ALL GYP BD TO BE TYPE 'X'

W-1	GYP BD	B-1	4" RESILIENT BASE (COVED AT RESILIENT TILE FLOORING)
W-2	8" x 8" CERAMIC TILE O/ CEMINTITIOUS BACKER UNIT	B-2	CERAMIC TILE COVE BASE 3 A-10.1
W-3	1/2" VINYL WRAPPED TACKABLE PANEL O/ GYP BD 13 A-10.1		
W-E	EXISTING FINISH TO REMAIN PROTECT IN-PLACE - TEXTURE AS REQ'D FOR UNIFORM FINISH AND PAINT		

KEYPLAN



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SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

A-7.4

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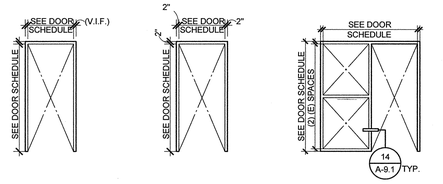
DOOR SCHEDULE

ID	TYPE	DOOR			FRAME			LOUVER SIZE	HDWR	THRESHOLD	REMARKS
		SIZE	MAT	FIN	TYPE	MAT	FIN				
101A	(E) A	3'-5" x 7'-0"	WOOD	PAINT	(E)1	WOOD	PAINT	-	1	24/A-9.1	
101B	(E) A	2'-6" x 4'-0"	WOOD	PAINT	(E)2	H.M.	PAINT	-	(E)	-	
102A	(E) A	3'-5" x 7'-0"	WOOD	PAINT	(E)1	WOOD	PAINT	-	1	24/A-9.1	
102B	(E) A	2'-6" x 4'-0"	WOOD	PAINT	(E)2	H.M.	PAINT	-	(E)	-	
103A	(E) A	3'-5" x 7'-0"	WOOD	PAINT	(E)1	WOOD	PAINT	-	1	24/A-9.1	
103B	(E) A	2'-6" x 4'-0"	WOOD	PAINT	(E)2	H.M.	PAINT	-	(E)	-	
104A	(E) A	3'-5" x 7'-0"	WOOD	PAINT	(E)1	WOOD	PAINT	-	1	24/A-9.1	
104B	(E) A	2'-6" x 4'-0"	WOOD	PAINT	(E)2	H.M.	PAINT	-	(E)	-	
105A	(E) A	3'-5" x 7'-0"	WOOD	PAINT	(E)1	WOOD	PAINT	-	1	24/A-9.1	
105B	(E) A	2'-6" x 4'-0"	WOOD	PAINT	(E)2	H.M.	PAINT	-	(E)	-	
106A	(E) A	3'-5" x 7'-0"	WOOD	PAINT	(E)1	WOOD	PAINT	-	1	24/A-9.1	
106B	(E) A	2'-6" x 4'-0"	WOOD	PAINT	(E)2	H.M.	PAINT	-	(E)	-	
107A	(E) A	3'-5" x 7'-0"	WOOD	PAINT	(E)1	WOOD	PAINT	-	1	24/A-9.1	
107B	(E) A	2'-6" x 4'-0"	WOOD	PAINT	(E)2	H.M.	PAINT	-	(E)	-	
108A	(E) A	3'-5" x 7'-0"	WOOD	PAINT	(E)1	WOOD	PAINT	-	1	24/A-9.1	
108B	(E) A	2'-6" x 4'-0"	WOOD	PAINT	(E)2	H.M.	PAINT	-	(E)	-	
109A	(E) A	3'-5" x 7'-0"	WOOD	PAINT	(E)1	WOOD	PAINT	-	1	24/A-9.1	
109B	(E) A	2'-6" x 4'-0"	WOOD	PAINT	(E)2	H.M.	PAINT	-	(E)	-	
110A	(E) A	3'-5" x 7'-0"	WOOD	PAINT	(E)1	WOOD	PAINT	-	1	24/A-9.1	
110B	(E) A	2'-6" x 4'-0"	WOOD	PAINT	(E)2	H.M.	PAINT	-	(E)	-	
111A	(E) B	3'-0" x 7'-0"	WOOD	PAINT	(E) 2	H.M.	PAINT	2'-0" x 1'-0"	2	29/A-9.1	SEE DETAIL 14/A-9.1 FOR REPLACEMENT OF (E) METAL PANEL SIDELITE INFILL
112A	(E) B	3'-0" x 7'-0"	WOOD	PAINT	(E) 2	H.M.	PAINT	2'-0" x 1'-0"	2	29/A-9.1	SEE DETAIL 14/A-9.1 FOR REPLACEMENT OF (E) METAL PANEL SIDELITE INFILL
113A	(E) A	3'-0" x 7'-0"	WOOD	PAINT	(E) 2	H.M.	PAINT	-	(E)	-	
113B	(E) B	3'-0" x 7'-0"	WOOD	PAINT	(E)1	WOOD	PAINT	(E) 1'-6" x 1'-0"	(E)	-	
113C	(E) A	1'-10" x 4'-8"	WOOD	PAINT	(E)1	WOOD	PAINT	-	3	-	
114A	(E) B	3'-0" x 7'-0"	WOOD	PAINT	(E) 2	H.M.	PAINT	2'-0" x 1'-0"	(E)1	-	

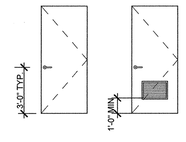
NOTES:
1. NO PANIC HARDWARE NEEDED AT CLASSROOMS, OCCUPANT LOAD UNDER 50
2. REMOVE ACCESSIBLE SIGNAGE AT DOOR 111A AND 112A: PATCH, PAINT AND REPAIR TO ALLOW FOR NEW SIGNAGE

DOOR FRAME TYPES



1 WOOD FRAME
2 HOLLOW METAL FRAME
3 EXISTING HOLLOW METAL FRAME

DOOR PANEL TYPES



A FLUSH
B FLUSH W/ LOUVER

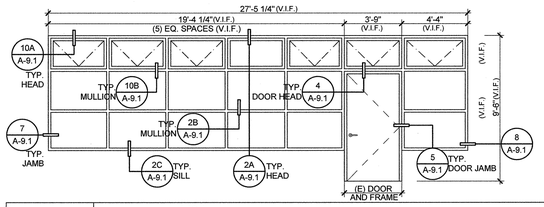
GLAZING GENERAL NOTES

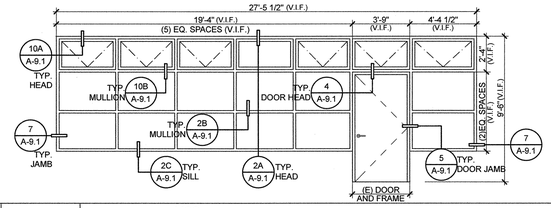
1. ALL EXTERIOR GLAZING SHALL BE INSULATED GLASS UNITS W/ 1/4" TEMPERED GLASS, U.O.N.
2. FOR DETAILED DOOR AND WINDOW GLAZING INFORMATION REFER TO SPECIFICATION SECTION 08 8000.

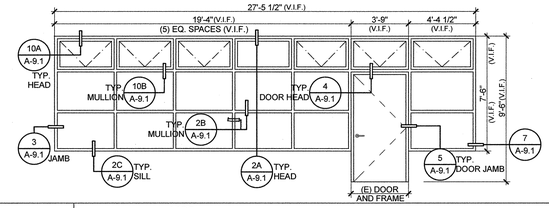
DOOR GENERAL NOTES

1. ALL EXIT DOORS IN SCHOOL BUILDINGS, INCLUDING BUT NOT LIMITED TO DOORS OF TOILET ROOMS AND STORAGE ROOMS SHALL CONFORM TO CBC 1009. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, OR SPECIAL KNOWLEDGE OR EFFORT.
2. EXIT DEVICES (PANIC HARDWARE) SHALL BE INSTALLED IN CONFORMANCE WITH CBC 1008.1.10. THE ACTIVATING MEMBER SHALL BE CENTERED AT A HEIGHT OF NOT LESS THAN 34 INCHES OR MORE THAN 44 INCHES ABOVE THE FLOOR.
3. PANIC HARDWARE IS REQUIRED FROM ROOMS AND CORRIDORS OF E OCCUPANCY WHERE OCCUPANT LOAD EXCEEDS, 50 PER CBC 1008.1.10
4. 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.
5. MAXIMUM EFFORT TO OPERATE DOORS 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.
6. SEE ARCHITECTURAL SIGNAGE DRAWINGS FOR SIGNS ON DOORS AND SIGNS RELATED TO ENTRANCE AND EXIT. REFER TO SITE PLAN FOR SITE SIGNAGE.

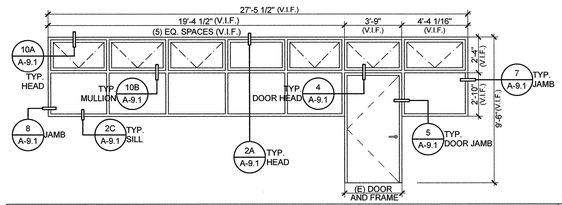
WINDOW TYPES

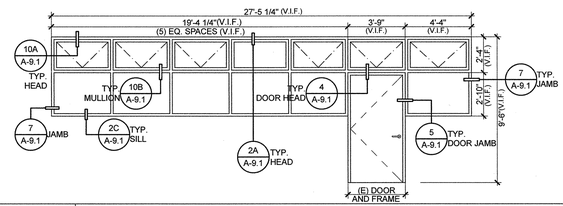


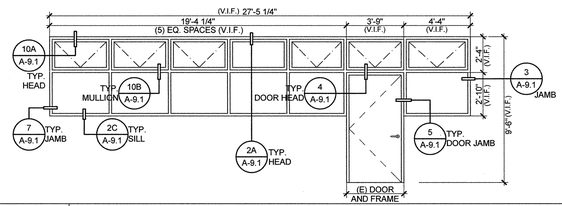




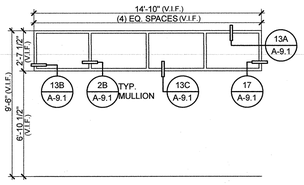
	H01		H02		H03
TYPE	ALUMNIMUM STOREFRONT	TYPE	ALUMNIMUM STOREFRONT	TYPE	ALUMNIMUM STOREFRONT
GLAZING	DUAL GLAZED	GLAZING	DUAL GLAZED	GLAZING	DUAL GLAZED
OPERATION	HOPPER	OPERATION	HOPPER	OPERATION	HOPPER
RATING	-	RATING	-	RATING	-
NOTES	-	NOTES	-	NOTES	-

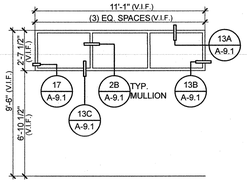




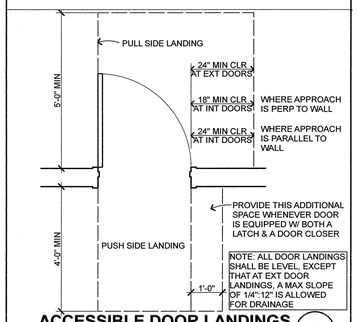


	H04		H05		H06
TYPE	ALUMNIMUM STOREFRONT	TYPE	ALUMNIMUM STOREFRONT	TYPE	ALUMNIMUM STOREFRONT
GLAZING	DUAL GLAZED	GLAZING	DUAL GLAZED	GLAZING	DUAL GLAZED
OPERATION	HOPPER	OPERATION	HOPPER	OPERATION	HOPPER
RATING	-	RATING	-	RATING	-
NOTES	-	NOTES	-	NOTES	-





	H07		H08
TYPE	ALUMNIMUM STOREFRONT	TYPE	ALUMNIMUM STOREFRONT
GLAZING	DUAL GLAZED	GLAZING	DUAL GLAZED
OPERATION	FIXED	OPERATION	FIXED
RATING	-	RATING	-
NOTES	TRANSLUSCENT GLAZING	NOTES	TRANSLUSCENT GLAZING



ACCESSIBLE DOOR LANDINGS 2
1:23.639
B203301

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LICENSED ARCHITECT
JAY PIERCE
LICENSE # C22943
EXP JUNE 30, 2019
STATE OF CALIFORNIA
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Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street South San Francisco CA 94080-4423

IDENTIFICATION STAMP
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FILE NO: 41-28
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ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE:
PTN: 69070-97
DSA BACKCHECK
11/09/17

SHEET TITLE

DOOR & WINDOW SCHEDULE

SHEET NUMBER

A-8.1

P:\1277.04 - Parkway Heights MS Modern - Ph 2, SSF USD\Drawings\04-CD\1277.04 Parkway Heights MS Classroom Bldg H1.pln;11/7/2017 4:03 PM

MINIMUM CBC REQUIREMENTS.

TYPICAL PLAQUE NOTES U.O.N.

PLAQUES WITH TACTILE LETTERING AND SYMBOLS (RAISED 1/32") INCLUDES CALIFORNIA CONTRACTED GRADE 2 BRAILLE RAISED 1/40" PER CBC REQUIREMENTS. SAN SERIF FONT SELECTION SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 60% AND 110%. MEASURED BY THE WIDTH OF THE UPPERCASE LETTER "O" AND THE HEIGHT OF THE UPPERCASE LETTER "I". A STROKE WIDTH TO HEIGHT OF THE UPPERCASE LETTER "I" SHALL BE 10% MIN AND 15% MAX OF HT OF CHARACTER.

CUSTOM COLORS, LAYOUT & LETTER STYLES TO BE SELECTED & APPROVED BY ARCHITECT, SIGNAGE SYMBOLS, BACKGROUND, MOUNTING SURFACE TO CONTRAST, 70% MINIMUM CONTRAST.

WHERE SIGN PLAQUES ARE PLACED ON GLASS, ANY BACKING PLAQUE OR SIGN IS TO BE THE SAME SIZE.

TEXT

TEXT HT A.F.F.	TEXT SIZE*
48"-70"	5/8" MIN. TEXT (48 PT)
> 70"	2" MAX.

* FOR WALL MOUNTED SIGNS WHICH MAY BE VIEWED W/O OBSTRUCTION.

MOUNTING OF SIGNS

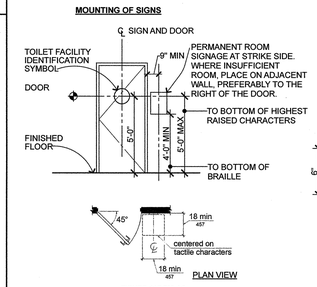


FIGURE 11B-703.4.2
LOCATION OF TACTILE SIGNS AT DOORS

ACCESSIBLE SIGNAGE 22

1/4" = 1'-0"

STRIKE SIDE TOILET ROOM SIGNAGE
(PLAQUE NOTES TYP FOR EACH SIGN)

PROVIDE AT ACCESSIBLE TOILET ROOMS.

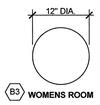
USE "GIRLS" & BOYS" WHERE TOILET ROOMS ARE PRIMARILY USED BY CHILDREN.

B1 GIRLS RM

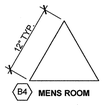
B2 BOYS ROOM

TOILET ROOM DOOR SIGNAGE
(NOTES TYP FOR EACH SIGN)

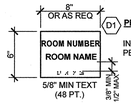
PROVIDE AT ACCESSIBLE TOILET ROOMS.



B3 WOMENS ROOM



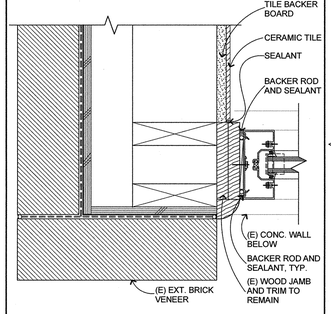
B4 MENS ROOM



D1 **PERMANENT ROOM I.D. SIGNAGE**

INSTALL NEXT TO ENTRANCE DOORS, PER CBC REQUIREMENTS.

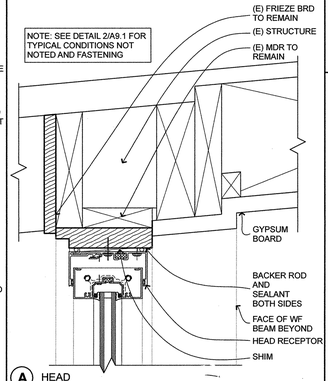
NOTE: SEE DETAIL 2/A9.1 FOR TYPICAL CONDITIONS NOT NOTED AND FASTENING

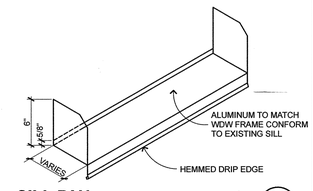


JAMB CONC TO STOREFRONT 17

3" = 1'-0"

NOTE: SEE DETAIL 2/A9.1 FOR TYPICAL CONDITIONS NOT NOTED AND FASTENING

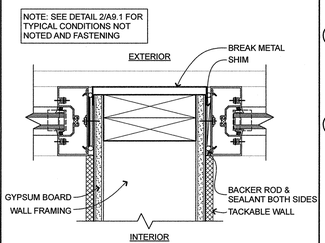




SILL PAN 6

1 1/2"= 1'-0" B201105

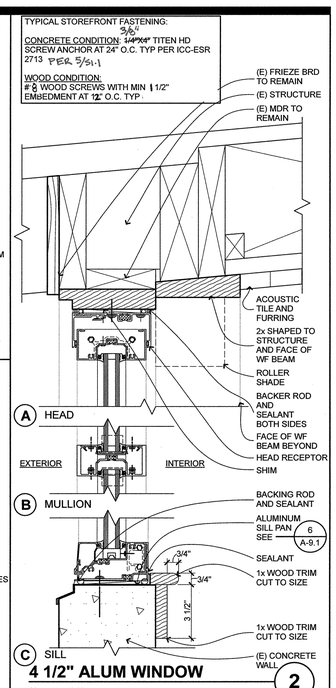
NOTE: SEE DETAIL 2/A9.1 FOR TYPICAL CONDITIONS NOT NOTED AND FASTENING



INT WALL STOREFRONT 7

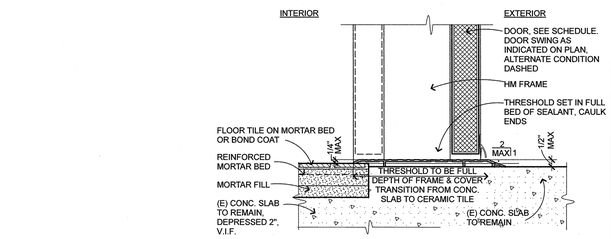
3" = 1'-0"

TYPICAL STOREFRONT FASTENING:
3/8"ø
CONCRETE CONDITION: 1-1/4"ø* TITEN HD SCREW ANCHOR AT 24" O.C. TYP PER ICC-ESR 2713 PER S/S1.1
WOOD CONDITION:
#8 WOOD SCREWS WITH MIN 1 1/2" EMBEDMENT AT 12" O.C. TYP.



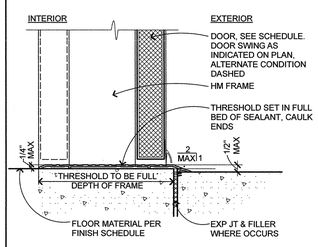
4 1/2" ALUM WINDOW 2

3" = 1'-0"



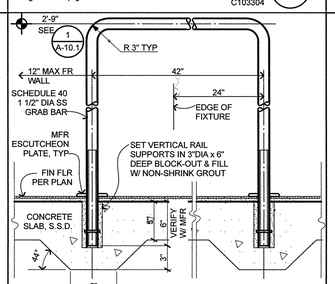
THRESHOLD AT CERAMIC TILE 29

3" = 1'-0"



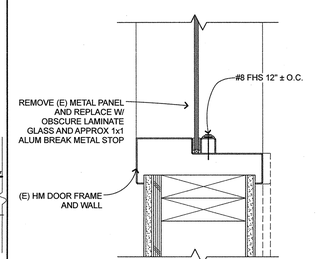
THRESHOLD AT RESILIENT FLOORING 24

3" = 1'-0" B203103



FLOOR MOUNTED GRAB BAR 19

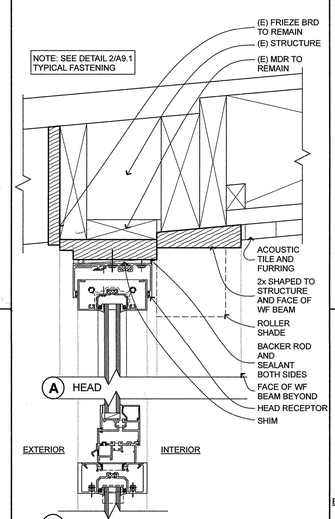
1 1/2"= 1'-0" C103102A



(E) HM FRAME GLAZING 14

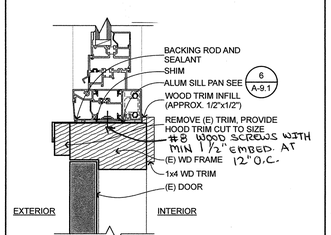
3" = 1'-0"

NOTE: SEE DETAIL 2/A9.1 TYPICAL FASTENING



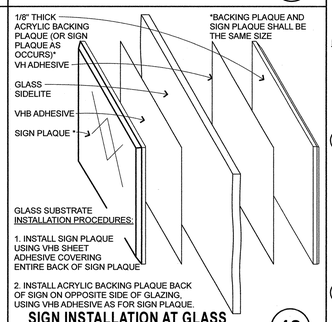
OP WINDOW TO STOREFRONT 10

3" = 1'-0"



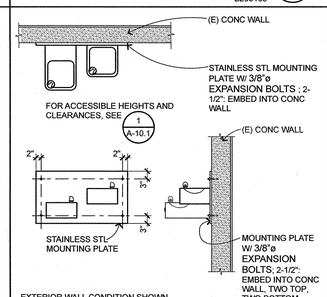
(E) DOOR HEAD TO STOREFRONT 4

3" = 1'-0"



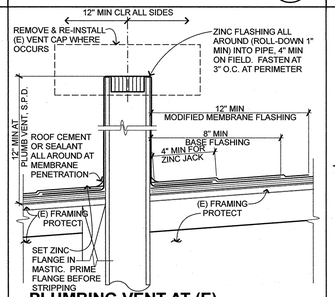
SIGN INSTALLATION AT GLASS 18

6" = 1'-0" C103304



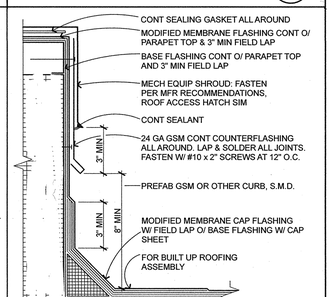
DF MOUNTING 25

1/2" = 1'-0" D208107



PLUMBING VENT AT (E) ROOF 20

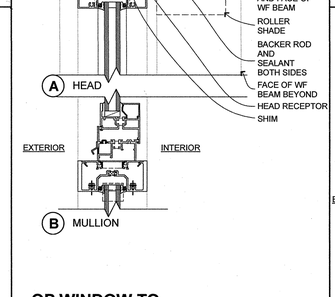
3" = 1'-0" B301412



MECH EQUIP CURB 15

3" = 1'-0" B301209

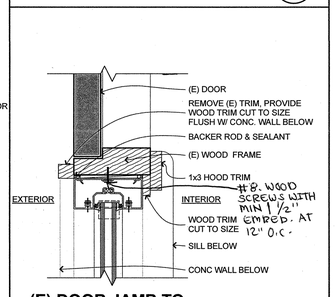
NOTE: SEE DETAIL 2/A9.1 FOR TYPICAL CONDITIONS NOT NOTED AND FASTENING



END WALL STOREFRONT 8

3" = 1'-0"

NOTE: SEE DETAIL 2/A9.1 FOR TYPICAL CONDITIONS NOT NOTED AND FASTENING



JAMB AT CONCRETE 3

3" = 1'-0"

(E) DOOR JAMB TO STOREFRONT 5

3" = 1'-0"

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LICENSED ARCHITECT
JOY HIESS
LICENSE # C22643
EXP JUNE 30, 2019
STATE OF CALIFORNIA

SIGNED: 11/09/17

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080

South San Francisco Unified School District

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
PPL NO: 01-116522
AC FLR SS
DATE: NOV 09 2017 KF

ARCH PROJECT NO:	1277.04
DRAWN BY:	
DRAWING SCALE:	
PTN:	69070-97

DSA BACKCHECK
11/09/17

SHEET TITLE

EXTERIOR DETAILS AND SIGNAGE

SHEET NUMBER

A-9.1

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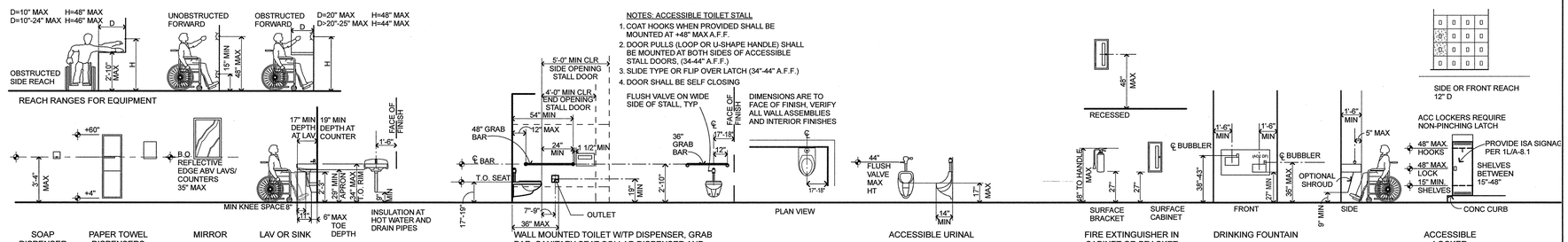
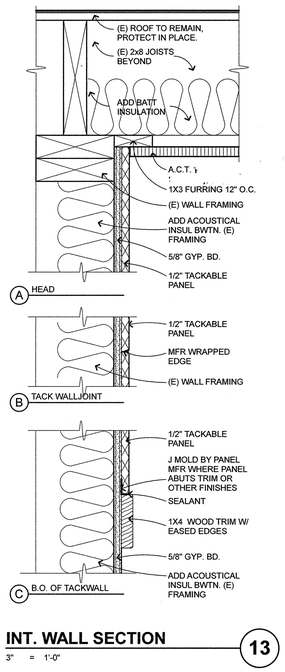


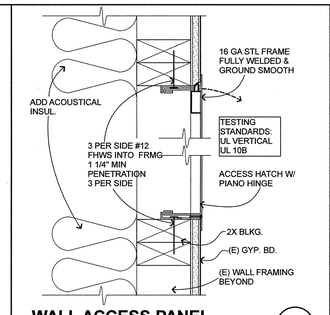
ACC MOUNTING HEIGHT - ADULT

1/4" = 1'-0" — 1



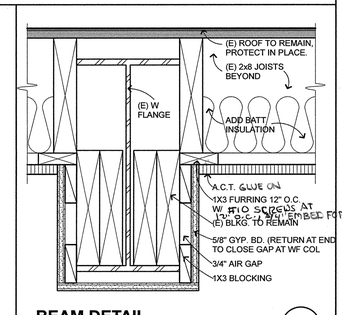
INT. WALL SECTION

3" = 1'-0" — 13



WALL ACCESS PANEL

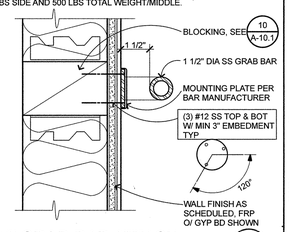
3" = 1'-0" — 7



BEAM DETAIL

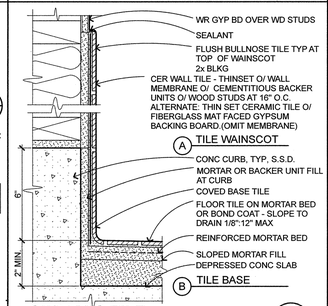
3" = 1'-0" — 2

NOTES:
1. GRAB BARS SHALL NOT ROTATE.
2. GRAB BARS AND ANY SURFACE ADJACENT TO THEM CAN NOT HAVE ANY SHARP OR ABRASIVE ELEMENTS.
3. GRAB BARS AND MOUNTINGS SHALL WITHSTAND 250 LBS SIDE AND 500 LBS TOTAL WEIGHT/MIDDLE.



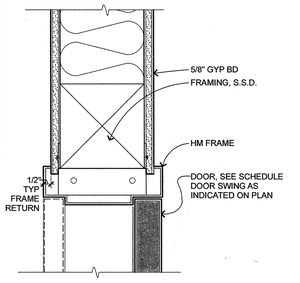
ALT GRAB BAR ATTACH

3" = 1'-0" C103102 — 8



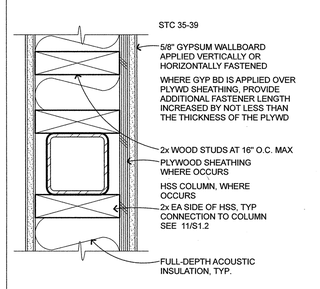
CERAMIC TILE

3" = 1'-0" C301201 — 3



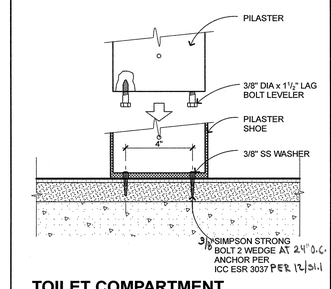
INT HM DR HEAD/JAMB

3" = 1'-0" B203101_A — 14



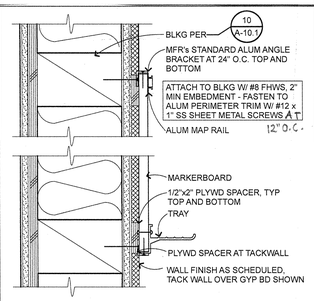
INT WALL-NON RATED

3" = 1'-0" C101105 — 9



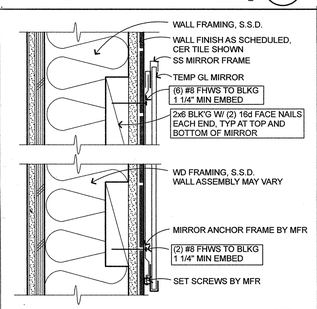
TOILET COMPARTMENT BACKING AT FLOOR

3" = 1'-0" C103105 — 4



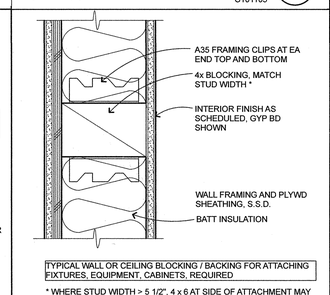
MARKER BOARD

3" = 1'-0" — 20



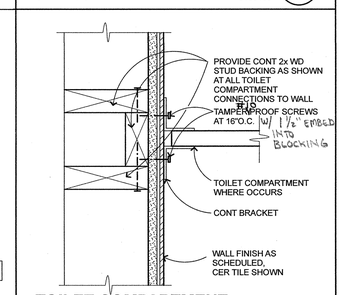
MIRROR ATTACHMENT

3" = 1'-0" C103103_A — 15



BLKG/BACKING - WD

3" = 1'-0" C103105 — 10



TOILET COMPARTMENT BACKING AT WOOD

3" = 1'-0" C103104_A — 5

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11/09/17

SHEET TITLE

INTERIOR DETAILS

SHEET NUMBER

A-10.1

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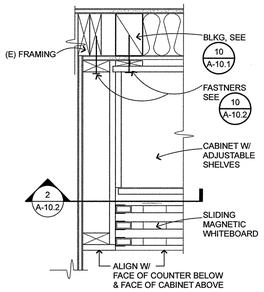
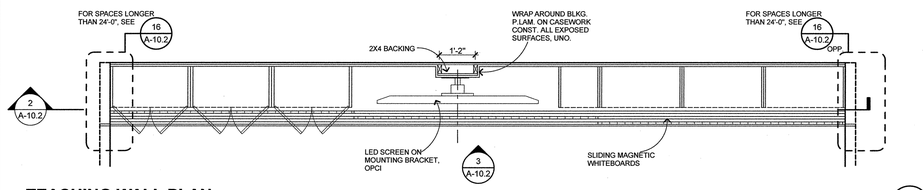


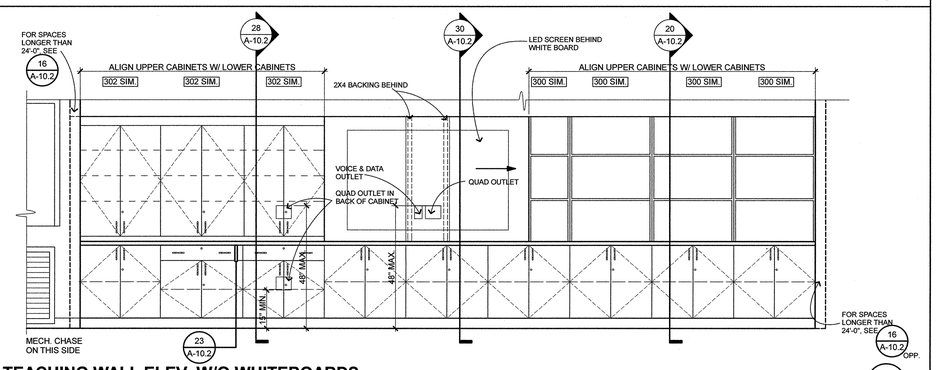
TEACH. WALL INFILL PANEL — 16

1 1/2"= 1'-0"



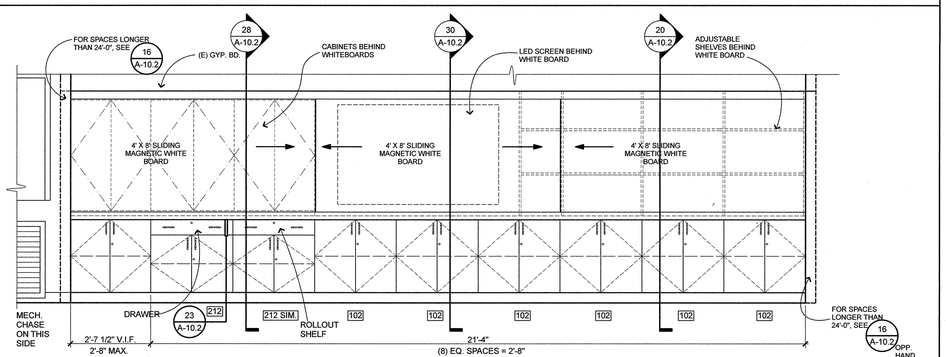
TEACHING WALL PLAN — 1

1/2" = 1'-0"



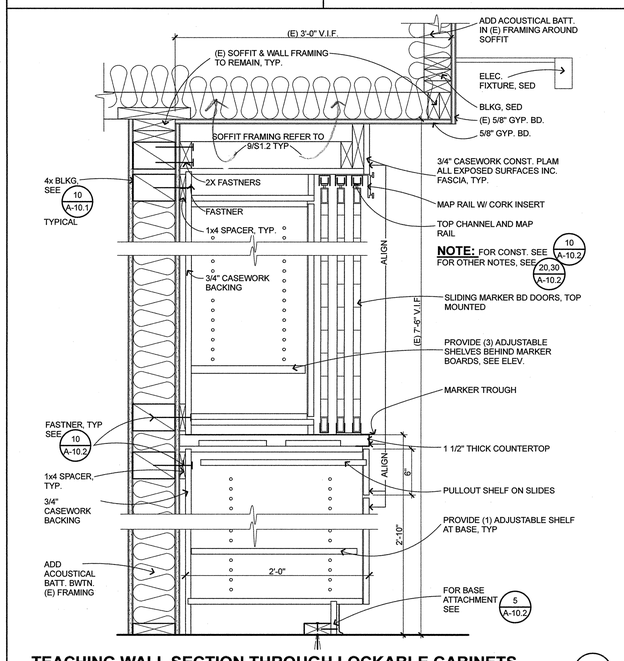
TEACHING WALL ELEV. W/O WHITEBOARDS — 2

1/2" = 1'-0"



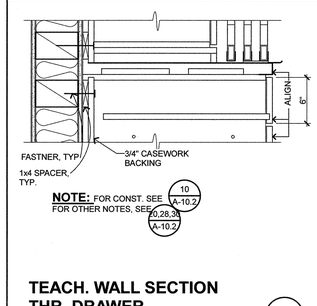
TEACHING WALL ELEVATION — 3

1/2" = 1'-0"



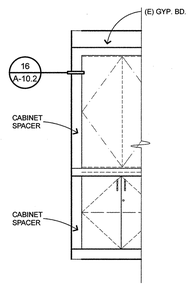
TEACHING WALL SECTION THROUGH LOCKABLE CABINETS — 28

1 1/2"= 1'-0"



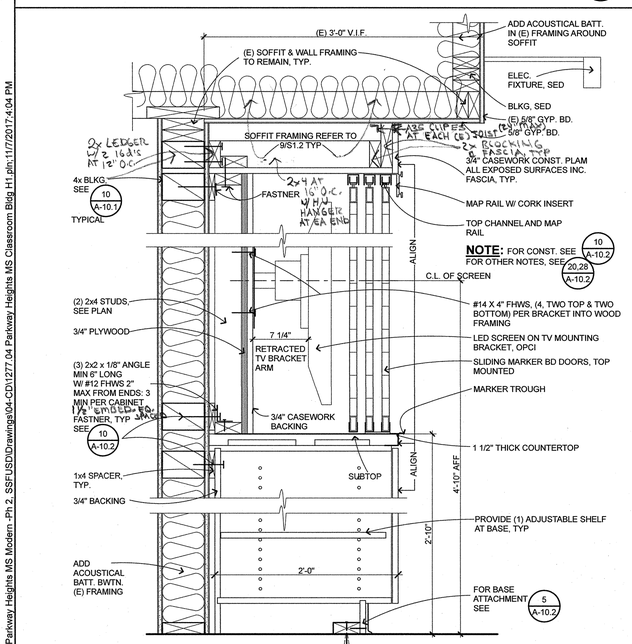
TEACH. WALL SECTION THR. DRAWER — 23

1 1/2"= 1'-0"



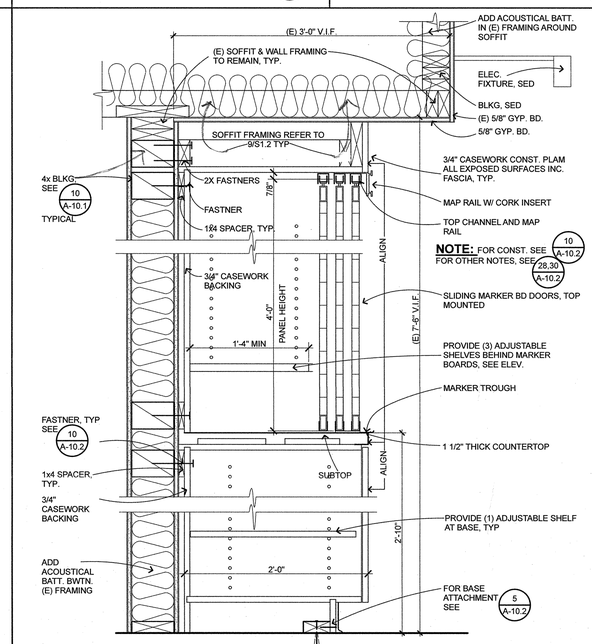
TEACH WALL INFILL ELEV. — 18

1/2" = 1'-0"



TEACHING WALL SECTION THROUGH TV — 30

1 1/2"= 1'-0"



TEACHING WALL SECTION THROUGH SHELVING — 20

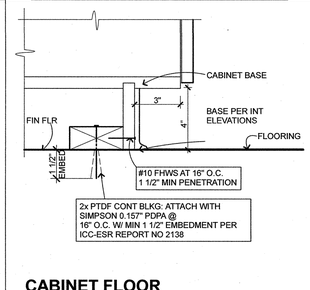
1 1/2"= 1'-0"

TYPICAL FASTENER :
2" MAX FROM ENDS. 3 MIN PER CABINET
WOOD: #12 F.H.W.S.SCREWS W/ 1 1/2" MIN EMBEDMENT AT 16" O.C. TYP. SET FLUSH, UNO.
ALTERNATE FASTENER 1/4" Ø SDS W/ 1-3/4" MIN EMBEDMENT, UNO.

CABINET NOTES:
PLASTIC LAMINATE CABINET U.O.N. ON INT ELEVATIONS OR OTHERWISE SCHEDULED.
DADO AND GLUE CABINET CARCASS. 3/4" BACKING, INTEGRAL TOE, TYPICAL

CABINET CONST. — 10

1 1/2"= 1'-0"



CABINET FLOOR ATTACHMENT — 5

3" = 1'-0"

1277

QUATTROCCHI KWOK ARCHITECTS
636 FIFTH ST.
SANTA ROSA, CA 95404
(707) 576-0829
(707) 576-0295 FAX

LICENSED ARCHITECT — JEFF S. WEISS — LICENSE # C-23643 — EXP. JUNE 30, 2019 — STATE OF CALIFORNIA

SIGNED:

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080

South San Francisco Unified School District

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
ABPL NO: 01-116522
AC. FLR GS KF
DATE: NOV 09 2017

ARCH PROJECT NO:	1277.04
DRAWN BY:	
DRAWING SCALE:	
PTN:	69070-97

DSA BACKCHECK
11/09/17

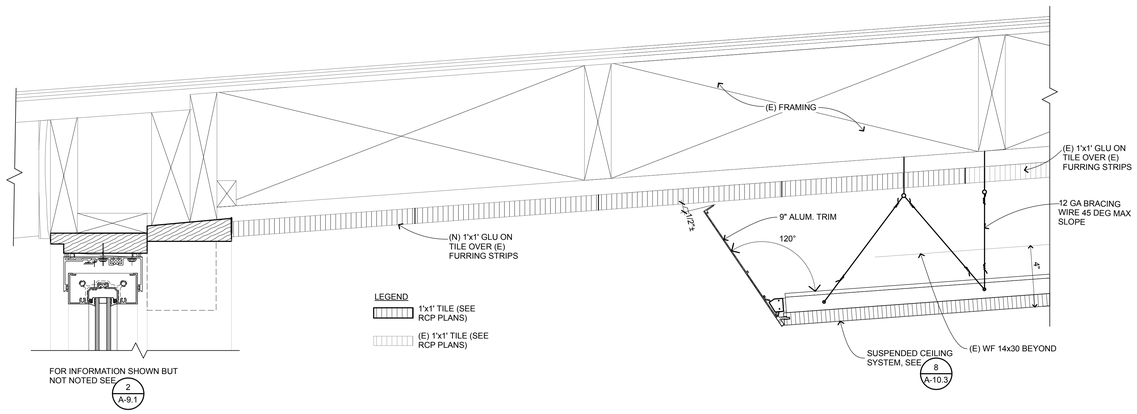
SHEET TITLE

CASEWORK DETAILS

SHEET NUMBER

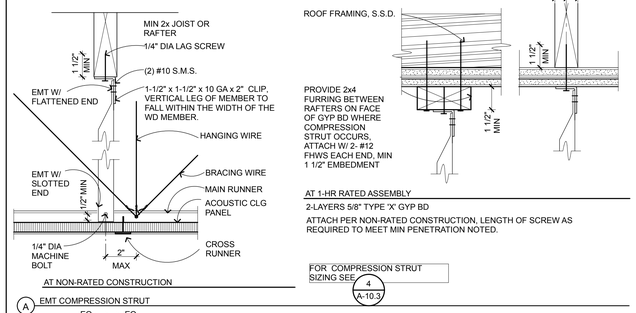
A-10.2

P:\1277.04 - Parkway Heights MS Modern -Ph 2, SSFUSD\Drawings\04-CD\1277.04 Parkway Heights MS Classroom Bldg H1.pln:11/7/2017:4:04 PM



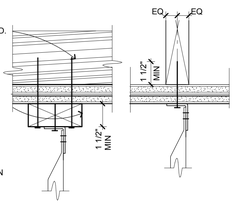
SLOPED ACOUSTICAL CEILING END

3" = 1'-0" — 18



AT NON-RATED CONSTRUCTION

FOR COMPRESSION STRUT SIZING SEE 4 A-10.3

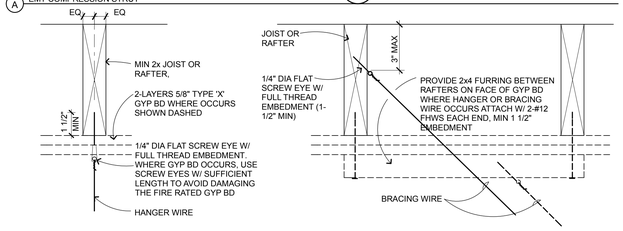


AT 1-HR RATED ASSEMBLY

2-LAYERS 5/8" TYPE 'X' GYP BD

ATTACH PER NON-RATED CONSTRUCTION, LENGTH OF SCREW AS REQUIRED TO MEET MIN PENETRATION NOTED.

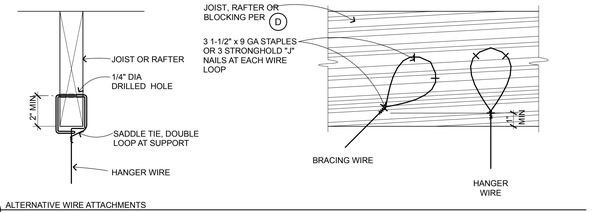
A EMT COMPRESSION STRUT



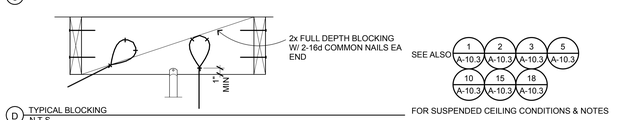
HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE W/ THE DIRECTION OF THE WIRE.

FOR HANGING AND BRACING WIRE TURNS AT CONNECTIONS SEE 1 A-10.3

B TYPICAL HANGING AND BRACING WIRES



C ALTERNATIVE WIRE ATTACHMENTS



D TYPICAL BLOCKING N.T.S.

FOR SUSPENDED CEILING CONDITIONS & NOTES

SUSP ACOUS CLG - WD FRMG

3" = 1'-0" — C303204 — 8

1. **GENERAL REQUIREMENTS:** CBC Section 1616 & IR 25-2.13 govern the design and installation of suspended ceiling systems.The details are for ceilings whose total weight does not exceed 4 PSF.
SEE DETAILS FOR SPECIFIC REQUIREMENTS

2. Refer to reflected ceiling plans for locations of expansion joints and seismic separation joints as occur.

3. Lateral force bracing may be omitted for suspended acoustical ceiling systems with a ceiling area of 144 square feet or less, and fire rated suspended acoustical ceiling systems with a ceiling area of 96 square feet or less, when perimeter support in accordance with governing regulations are provided and perimeter walls are designed to carry the ceiling lateral forces.

4. For attachment of all light fixtures, flush, recessed or otherwise ceiling mounted, refer to electrical drawings for details.

5. For attachment of ceiling mounted air terminals , grilles, mechanical terminals, and flexible sprinkler hose fittings or other services be supported directly on runner srefer to mechanical drawings for details.

6. For power actuated fasteners and anchors, refer to structural drawings - General Notes & Details Sheet S1.2

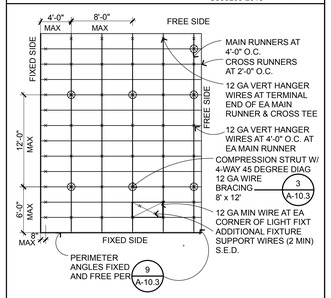
TYPICAL WIRE FASTENING:

HANGER WIRES: 12 GA WIRE WITH MINIMUM OF 3 TIGHT TURNS IN 3 INCHES, BOTH END, TYPICAL.

BRACING WIRES: 12 GA WIRE WITH MINIMUM OF 4 TIGHTURNS IN 1-1/2" EACH END, TYPICAL.

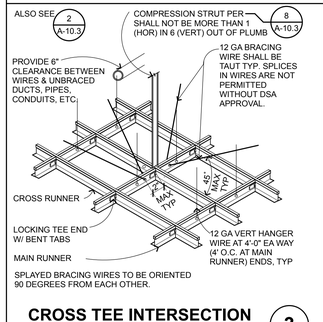
TYP SUSP CEILING NOTES

1/8" = 1'-0" — C303209 2013 — 1



SUSP CLG SUPPORT PLAN

1/8" = 1'-0" — C303208 — 2



CROSS TEE INTERSECTION

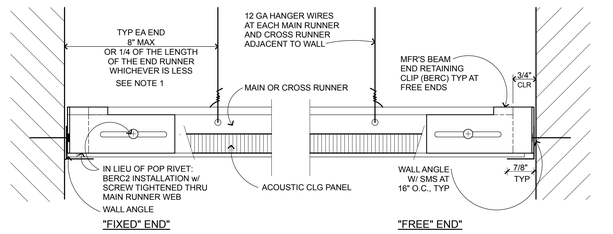
1 1/2"= 1'-0" — C303201 — 3

EMT COMPRESSION STRUT	MAXIMUM LENGTH
1/2" DIA EMT (0.042" WALL TH)	4'-7"
3/4" DIA EMT (0.049" WALL TH)	7'-5"
1" DIA EMT (0.057" WALL TH)	9'-9"
1 1/4" DIA EMT (0.065" WALL TH)	12'-9"
1-1/2" DIA EMT (0.065" WALL TH)	14'.-9"
2" DIA EMT (0.065" WALL TH)	18'-10"

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250137-43	8'-10"
400S137-43	10'-10"

COMPRESSION STRUCT TABLE

1" = 1'-0" — C303214 — 4

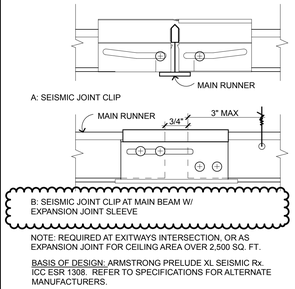


BASIS OF DESIGN: ARMSTRONG PRELUDE XL SEISMIC Rx ICC ESR 1308. REFER TO SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.

NOTE 1: PERIMETER WIRES ARE NOT REQUIRED WHEN LENGTH OF TEE IS 8" OR LESS.

CLG PERIMETER-MFR CLIP

6" = 1'-0" — C303206 — 9

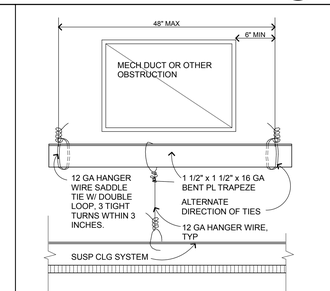


NOTE: REQUIRED AT EXITWAYS INTERSECTION, OR AS EXPANSION JOINT FOR CEILING AREA OVER 2,500 SQ. FT.

BASIS OF DESIGN: ARMSTRONG PRELUDE XL SEISMIC Rx ICC ESR 1308. REFER TO SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.

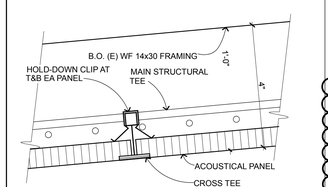
SUSP CLG EXP JT MFR CLIP

6" = 1'-0" — C303216 — 15



SUSP ACOUS CLG TRAPEZE

3" = 1'-0" — C303203 — 10



HOLD DOWN CLIP AT CLG

6" = 1'-0" — C303212 1277.04 — 5

QUATTROCCHI KWOK ARCHITECTS
636 FIFTH ST.
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(707) 576-0829
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LICENSED ARCHITECT
JIM THEISS
LICENSE # C22643
EXP JUNE 30, 2019
STATE OF CALIFORNIA

SIGNED:

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080

South San Francisco Unified School District

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116522
AC_____ FLS_____ SS_____
DATE_____

1	2-15-18	ADDENDUM 1

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE:
PTN: 69070-97

DSA BACKCHECK
11/09/17

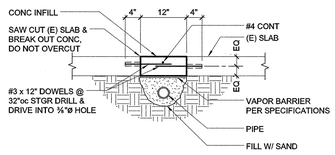
SHEET TITLE

ADD 1

CEILING DETAILS

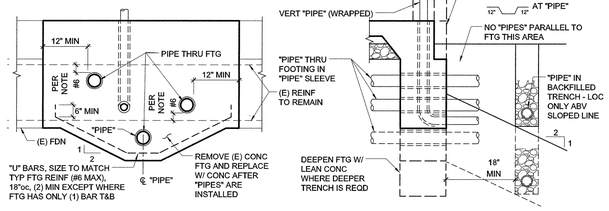
SHEET NUMBER ADD 01
01.09
A-10.3

P:\1277.04 - Parkway Heights MS Modern -Ph 2, SSF\USD\Drawings\04-CD\1277.04 Parkway Heights MS Classroom Bldg H1.pln;2/15/2018;10:18 AM



6 NEW PIPE AT EXISTING SLAB
3/4" = 1'-0"

NOTES:
1. "PIPE" = ANY PENETRATION THROUGH OR EMBEDDED IN FOUNDATION STRUCTURE.
2. "PIPE" EMBEDDED IN CONC TO BE PROVIDED W/ FLEXIBLE COUPLINGS AT ENTRY/EXIT POINTS.
3. SLEEVES SHALL BE PVC, ID TO BE 2" LARGER THAN PIPE OD
4. NO "PIPE" TO RUN PARALLEL IN FOOTINGS, STEM OR CURB.
5. PVC CONDUIT ("PIPE") EMBEDDED IN CURB/STEM MAY BE WIRE TIED TO HORIZ REINF.
6. WRAPPED PIPES SHALL HAVE 1½" CLEAR FROM WRAPPING TO REINF. SLEEVED PIPES SHALL HAVE 1½" MINIMUM CLEAR TO REINF. WRAP W/ ¼" FOAM SHEET, (8) LAYERS MINIMUM. CONCRETE COVER TO BE 1" MINIMUM.
7. CLEARANCE BETWEEN "PIPES" TO BE 3" MIN TYP.
8. NOTIFY ENGINEER FOR REPAIRS IF (E) REINF STEEL IS DAMAGED IN CONC REMOVAL.
9. ALL PIPES THOUGH FOOTINGS TO BE WRAPPED OR SLEEVED



FINN 11 S1.1

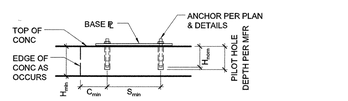
10 TYPICAL PIPE THROUGH FOOTING
3/4" = 1'-0"

11 TRENCHING ADJACENT TO FOOTING
3/4" = 1'-0"

STAINLESS STL EXPANSION ANCHORS IN 2500 PSI MIN CONC

Test Torque

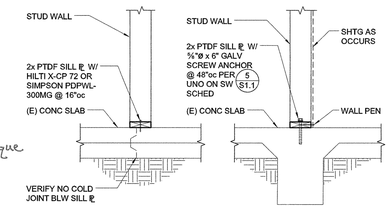
ANCHOR TYPE	ANCHOR & PILOT HOLE DIA	MIN NOMINAL EMBED H_{nom}	MIN EDGE DISTANCE C_{min}	MIN SPACING S_{min}	MIN CONC THICKNESS H_{min}	INSTALL TORQUE (FT-LB)
SIMPSON STRONG-BOLT 2 (ICC-ESR 3037)	⅜"	1⅞"	6"	10"	3½"	30
	½"	2½"	6½"	8"	4½"	65
	½"	3¼"	4"	8"	5½"	80
	¾"	4½"	6"	6½"	6¾"	150
HILTI KWIK BOLT TZ (ICC-ESR 1917)	⅜"	~~2¾"~~ 2"	2½"	5"	4"	25
	½"	~~3½"~~ 2½"	2¼"	5¼"	4"	40
	⅝"	~~3⅞"~~ 3⅛"	3¼"	5½"	5"	60
	¾"	~~4⅜"~~ 3⅜"	4¼"	10"	6"	110



NOTES:
1. INSTALL EXPANSION ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A AND THE REQUIREMENTS OF THE ICC REPORTS.
2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
3. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
4. THE SPECIAL INSPECTOR MUST BE ON THE JOB SITE PERIODICALLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND TIGHTENING TORQUE.
5. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5.

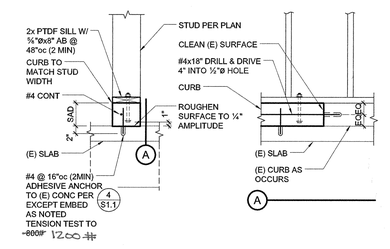
12 EXPANSION ANCHOR IN CONCRETE
3/4" = 1'-0"

7 NOT USED
3/4" = 1'-0"



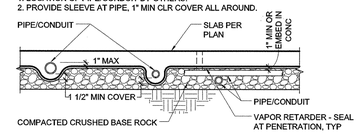
A NON-BEARING WALL B BEARING WALL

8 NEW STUD WALL AT EXISTING SLAB
3/4" = 1'-0"



9 NEW CURB AT EXISTING SLAB
3/4" = 1'-0"

NOTES:
1. LOCATION OF PIPE/CONDUIT BY OTHERS.
2. PROVIDE SLEEVE AT PIPE, 1" MIN CLR COVER ALL AROUND.

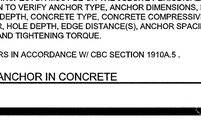


PIPE/CONDUIT REQUIRING EMBEDMENT IN CONC **PIPE/CONDUIT IN COMPACTED ROCK**

3 CONDUIT & PIPE AT SLAB ON GRADE
3/4" = 1'-0"

ADHESIVE ANCHOR IN 2500 PSI MIN CONCRETE

ADHESIVE TYPE	ANCHOR THRD ROD	ANCHOR REBAR	PILOT HOLE	MIN EMBED UNO H_{ef}	MIN EDGE DISTANCE C_{min}	MIN SPCG S_{min}	MIN CONC DEPTH H_{min}
SIMPSON SET-XP (ICC-ESR 2508)	⅜"ø	#3	½"ø	3"	1¾"	3"	5"
	½"ø	#4	¾"ø	4"	1¾"	3"	6½"
	⅝"ø	#5	⅞"ø	5"	1¾"	3"	8¼"
	¾"ø	#6	1"ø	6"	1¾"	3"	9¾"
	⅞"ø	#7	1"ø	7"	1¾"	3"	11½"
	1"ø	#8	1⅛"ø	8"	1¾"	3"	13"
	1¼"ø	#10	1⅜"ø	10"	2¾"	6"	16¼"
HILTI HIT-HY 200R (ICC-ESR 3187)	⅜"ø	N/A	⅞"ø	3"	1¾"	1⅞"	4¼"
	N/A	#3	½"ø	3"	1¾"	1¾"	4¼"
	½"ø	N/A	⅞"ø	4"	1¾"	2½"	5¼"
	N/A	#4	⅝"ø	4"	1¾"	2¾"	5½"
	⅝"ø	#5	¾"ø	5"	1¾"	3⅜"	6½"
	¾"ø	#6	⅞"ø	6"	1¾"	3⅞"	7¾"
	⅞"ø	#7	1"ø	7"	1¾"	4⅜"	9"
	1"ø	#8	1⅛"ø	8"	1¾"	5"	10¼"
	N/A	#9	1¼"ø	9"	1¾"	5⅝"	11¾"
	1¼"ø	N/A	1⅜"ø	10"	1¾"	6¼"	12¾"
	N/A	#10	1⅜"ø	10"	1¾"	6¼"	13"



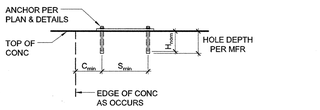
NOTES:
1. INSTALL ADHESIVE ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT.
2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING, AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN DRILLING HOLES IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
4. SPECIAL INSPECTION IS REQUIRED PER SECTION 1706A AND THE REQUIREMENTS OF THE ICC REPORTS. THE SPECIAL INSPECTOR MUST BE ON THE JOB SITE PERIODICALLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING (S), CONCRETE THICKNESS, AND ADHESIVE INJECTION. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5 . SEE DRAWINGS FOR SPECIFIC TENSION TEST LOADS FOR ANCHORS.

4 ADHESIVE ANCHOR IN CONCRETE
3/4" = 1'-0"

SCREW ANCHOR IN 2500 PSI MIN CONCRETE

Test Torque

ANCHOR TYPE	ANCHOR AND PILOT HOLE DIA	MINIMUM EMBEDMENT H_{nom}	MINIMUM EDGE DIST C_{min}	MINIMUM SPCG S_{min}	MINIMUM CONCRETE DEPTH H_{min}	INSTALL TORQUE (FT-LB)	MAX INSTALL TORQUE (FT-LB)
SIMPSON TITEN HD (ICC-ESR 2713)	½"	2½"	1¾"	3"	4"	10	50
	½"	3¼"	1¾"	3"	5"	10	65
	⅝"	4"	1¾"	3"	6"	10	100
	¾"	5½"	1¾"	3"	8¼"	20	150
HILTI KH-EZ (ICC-ESR 3027)	⅜"	2½"	1½"	3"	4"	10	40
	½"	3"	1¾"	3"	4¾"	10	45
	⅝"	3¼"	1¾"	4"	5"	10	85
	¾"	4"	1¾"	4"	6"	20	115



NOTES:
1. INSTALL SCREW ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705A OF THE CBC AND THE REQUIREMENTS OF THE ICC REPORTS. INSTALLED ANCHORS SHALL BRING CONNECTED PLIES INTO FIRM CONTACT, MEETING THE INSTALL TORQUE BUT NOT EXCEEDING THE MAXIMUM INSTALL TORQUE.
2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
4. THE SPECIAL INSPECTOR MUST BE ON THE JOBSITE PERIODICALLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND TIGHTENING TORQUE.
5. TEST ANCHORS IN ACCORDANCE W/ CBC SECTION 1910A.5 .

5 SCREW ANCHOR IN CONCRETE
3/4" = 1'-0"

MINIMUM BAR LAPS FOR REINFORCING STEEL
CONCRETE STRENGTH: 3000 PSI OR GREATER - (STAGGER SPLICES)

SIZE	LAP LENGTH	SIZE	LAP LENGTH	SIZE	LAP LENGTH
#3	18"	#6	34"	#9	86"
#4	24"	#7	56"	#10	102"
#5	28"	#8	70"	#11	120"

(CLASS B TOP BAR)
BAR SPCG SHALL NOT BE LESS THAN 4x BAR DIA OR 4".

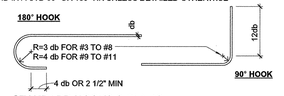
CONC COVER FOR REINF STL ..... 'CLR'

CAST AGAINST EARTH OR GR ..... 3"

EXPOSED TO EARTH (FORMED) OR WEATHER
#5 & SMALLER ..... 1½"
#6 & LARGER ..... 2"

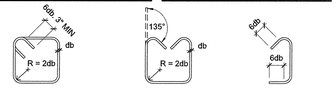
NOT EXPOSED TO EARTH OR WEATHER
#5 & SMALLER ..... 1"
#6 & LARGER, & ALL BM STIRRUPS, COL TIES & SPIRALS ..... 1½"

ALL REINF BARS SHALL EXTEND AS FAR AS POSSIBLE & END IN A STD 90° OR 180° HK UNLESS DETAILED OTHERWISE



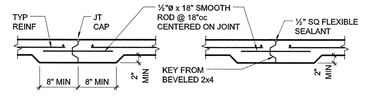
STANDARD HOOKS & BENDS

COL BAR & STRUCT OFFSET **SPLICE**



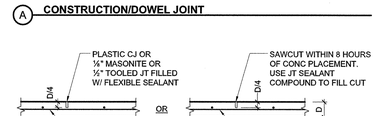
135° STIRRUP TIES #3, #4, #5 **STIRRUP #3, #4, #5** **CROSSTIE #3, #4, #5**

1 TYPICAL REINFORCING DETAIL (f'c = 3000psi MIN)
3/4" = 1'-0"



METAL JOINT **FORMED JOINT**

A CONSTRUCTION/DOWEL JOINT



B CONTROL JOINT

2 SLAB ON GRADE JOINTS
3/4" = 1'-0"

ABBREVIATIONS

AB	ANCHOR BOLT	GB	GRADE BEAM	PTDF	PRESSURE TREATED
ABV	ABOVE	GLB	GLUE LAMINATED BEAM		DOUGLAS FIR
AC	AIR CONDITIONING	GR	GRADE	PT	POINT
ADJ	ADJACENT	HD	HOLD DOWN	R	RADIUS
ADDL	ADDITIONAL	HDG	HOT-DIP GALVANIZED	RBS	REDUCED BEAM SECTION
ALT	ALTERNATE	HDR	HEADER	RFTR	RAFTER
ALUM	ALUMINUM	HGR	HANGER	REF	REFERENCE
ARCH	ARCHITECT	HK	HOOK	REINF	REINFORCING
@	AT	HORIZ	HORIZONTAL	REQD	REQUIRED
BLDG	BUILDING	HS	HIGH STRENGTH	RET	RETAINING
BLK/BLKG	BLOCK/BLOCKING	HSB	HIGH STRENGTH BOLT	REV	REVISION
BLW	BELOW	HSFB	HIGH STRENGTH FRICTION BOLT	RF	ROOF
BM	BEAM	HSG	HIGH STRENGTH GROUT	RWD	REDWOOD
BN	BOUNDARY NAIL	HSH	HORIZONTAL SLOTTED HOLE	S	AMERICAN STANDARD BEAM
BOT	BOTTOM			SAD	SEE ARCHITECTURAL DRAWINGS
BRG	BEARING			SB	SOLID BLOCK
BTWN	BETWEEN	HSS	HOLLOW STRUCTURAL SECTION	SC	SLIP CRITICAL
BU	BUILT-UP	HT	HEIGHT	SCBF	SPECIAL CONCENTRIC BRACED FRAME
C	AMERICAN STANDARD CHANNEL	ID	INSIDE DIAMETER	SCD	SEE CIVIL DRAWINGS
CANT	CANTILEVER	IJ	I SHAPED WOOD BUILT UP TRUSS	SCHED	SCHEDULE
CB	CARRIAGE BOLT	INT	INTERIOR	SED	SEE ELECTRICAL DRAWINGS
CIP	CAST IN PLACE	JST	JOIST	SEOR	STRUCTURAL ENGINEER OF RECORD
CGL	CERTIFIED GLUED LUMBER	JT	JOINT	SFRS	SEISMIC FORCE RESISTING SYSTEM
CJ	CONTROL JOINT	KP	KING POST	SHTG	SHEATHING
℄	CENTERLINE		STEEL ANGLE	SIM	SIMILAR
CMP	CONCRETE POWER PENETRATION	Lb or #	POUNDS	SKYLT	SKYLIGHT
CLG	CEILING	LGMF	LIGHT GAGE METAL FRAMING	SMF	SPECIAL MOMENT FRAME
CLR	CLEAR	LGMFC	LIGHT GAGE METAL FRAMING CONTRACTOR	SMS	SHEET METAL SCREW
COL	COLUMN	LL	LIVE LOAD	SMD	SEE MECHANICAL DRAWINGS
COLL	COLLECTOR	LLH	LONG LEG HORIZONTAL	SOG	SLAB ON GRADE
CONC	CONCRETE	LLV	LONG LEG VERTICAL	SPCG	SPACING
CONN	CONNECTION	LOC	LOCATION	SPD	SEE PLUMBING DRAWINGS
CONT	CONTINUOUS	LP	LONG PITCH	SPEC	SPECIFICATION
COORD	COORDINATION	LSL	LAMINATED STRAND LUMBER	SQ	SQUARE
CMU	CONCRETE MASONRY UNIT	LVL	LAMINATED VENEER LUMBER	SS	SELECT STRUCTURAL or STAINLESS STEEL
CSK	COUNTERSINK	MAX	MAXIMUM	STGR	STAGGERED
CW	CUT WASHER	MB	MACHINE BOLT	STD	STANDARD
DBL	DOUBLE	MBM	METAL BUILDING MANUFACTURER	STIFF	STIFFENER
DCW	DEMAND CRITICAL WELD	MC	MISCELLANEOUS CHANNEL	STL	STEEL
DF	DOUGLAS FIR	MECH	MECHANICAL	STRUCT	STRUCTURAL
DIA or ø	DIAMETER	MEZZ	MEZZANINE	SW	SHEAR WALL
DIAG	DIAGONAL	MF	MOMENT FRAME	T&B	TOP AND BOTTOM
DJ	DOWEL JOINT	MFR	MANUFACTURER	T&G	TONGUE AND GROOVE
DL	DEAD LOAD	MIN	MINIMUM	THK	THICK
DN	DOWN	MISC	MISCELLANEOUS	THRD	THREADED
DO	DITTO	MW	MALLEABLE IRON WASHER	THRU	THROUGH
DWG	DRAWING	MTL	METAL	TL	TOTAL LOAD
DWL	DOWEL	(N)	NEW	TN	TOE NAIL
EA	EACH	NC	NOT IN CONTRACT	TOC	TOP OF CONCRETE
EF	EACH FACE	NS	NEAR SIDE	TOF	TOP OF FRAMING
ELEC	ELECTRICAL	NSG	NON-SHRINK GROUT	TOM	TOP OF MASONRY
ELEV	ELEVATOR/ELEVATION	NTS	NOT TO SCALE	TOP	TOP OF PLYWOOD
EMBED	EMBEDMENT	O/	OVER	TOS	TOP OF STEEL
EQ	EQUAL	oc	ON CENTER	TOT	TOTAL
EQMP	EQUIPMENT	OD	OUTSIDE DIAMETER	TU	TILT UP
ES	EACH SIDE	OH	OPPOSITE HAND	TYP	TYPICAL
EW	EACH WAY	OPNG	OPENING	UNO	UNLESS NOTED OTHERWISE
EXIST or (E)	EXISTING	OPP	OPPOSITE	VERT	VERTICAL
EXP	EXPANSION	OSB	ORIENTED STRAND BOARD	VIF	VERIFY IN FIELD
EXT	EXTERIOR	OWT	OPEN WEB TRUSS	VSH	VERTICAL SLOTTED HOLE
FDN	FOUNDATION	℄	PLATE or PROPERTY LINE	W	WIDE FLANGE STEEL BEAM
FIN	FINISH	PA	POST ABOVE	W/	WITH
FG	FINISH GRADE	PDP	POWDER DRIVEN PINS	W/O	WITHOUT
FLI	FERRULE LOOP INSERT	PEN	PANEL EDGE NAIL	WD	WOOD
FLR	FLOOR	PERP	PERPENDICULAR	WHS	WELDED HEADED STUD
FN	FACE NAIL	PES	PANEL EDGE SCREWS	WLD	WELDED
FOC	FACE OF CONCRETE	SHTG	SHEATHING	WP	WORK POINT/WATERPROOF
FOM	FACE OF MASONRY	PL	PLATE	WS	WOOD SCREW
FOS	FACE OF STUD	PNL	PANEL	WT	WEIGHT
FRMG	FRAMING	P/P	PARTIAL JOINT PENETRATION	WTS	WELDED THREADED STUD
FS	FAR SIDE	PSF	POUNDS PER SQUARE FOOT	WWR	WELDED WIRE REINFORCEMENT
FTG	FOOTING	PSI	POUNDS PER SQUARE INCH		
GA	GAGE or GAUGE	PSL	PARALLEL STRAND LUMBER		
GALV	GALVANIZED	PTB	PANEL TIE BAR		

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Parkway Heights Middle School

Modernization - Phase 2

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(SSFUSD #01-17)

South San Francisco Unified School District

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APPL NO: 01-116522
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ARCH PROJECT NO:	1277.04
ENGINEER:	CSW
DRAWN BY:	DRE
PTN:	69070-97

DSA BACKCHECK
11/02/17

SHEET TITLE

TYPICAL CONCRETE DETAILS

SHEET NUMBER

S1.1

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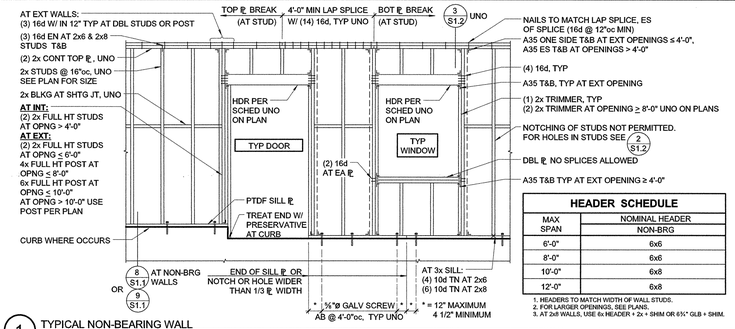
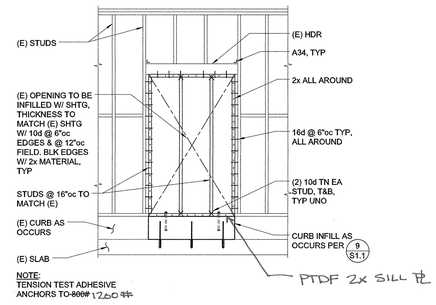


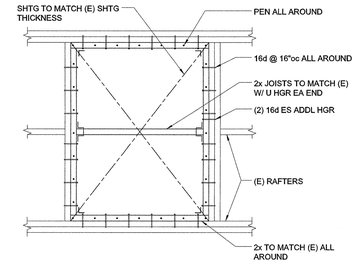
HEADER SCHEDULE	
MAX SPAN	NOMINAL HEADER NON-BRG
6'-0"	6x6
8'-0"	6x6
10'-0"	6x8
12'-0"	6x8

1. HEADERS TO MATCH WIDTH OF WALL STUDS.
2. FOR LARGER OPENINGS, SEE PLANS.
3. AT 2x8 WALLS, USE 6x HEADER + 2x + SHIM OR 6½" GLB + SHIM.

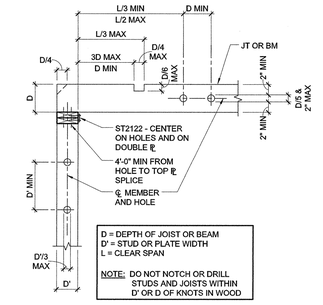
1 TYPICAL NON-BEARING WALL
3/8" = 1'-0"



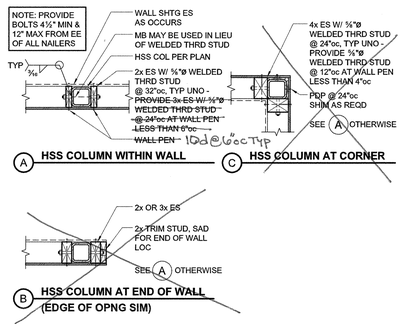
10 DOOR INFILL AT EXISTING WALL
3/8" = 1'-0"



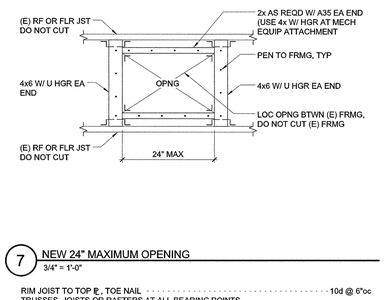
6 NEW INFILL AT EXISTING ROOF
3/4" = 1'-0"



2 HOLES AND NOTCHES IN WOOD STUDS, JOISTS, BEAMS AND PLATES
3/4" = 1'-0"



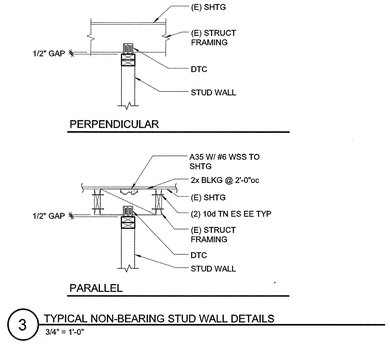
11 TYPICAL STEEL COLUMN NAILERS
3/4" = 1'-0"



7 NEW 24" MAXIMUM OPENING
3/4" = 1'-0"

RIM JOIST TO TOP ℄, TOE NAIL	10d @ 6"oc
TRUSSES, JOISTS OR RAFTERS AT ALL BEARING POINTS TOE NAILS EACH SIDE	(2) 10d
TRUSSES, JOISTS OR RAFTERS TO SIDE OF STUDS EIGHT (8) INCH JOISTS OR LESS	(3) 16d
FOR EACH ADDITIONAL 4 INCHES OF DEPTH OF JOIST	(1) 16d
BLOCKING BETWEEN JOISTS OR RAFTERS: TO JOIST OR RAFTERS - TOE NAILS EA SIDE, EA END	(2) 10d
TO JOIST OR RAFTER BEARINGS - TOE NAILS EA SIDE	(2) 10d
BLOCKING BETWEEN STUDS, EACH END TOE NAILS	(2) 10d OR (2) 16d
BRIDGING TO JOIST, TOE NAIL EACH END	(2) 8d
2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL	(2) 16d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d @ 16"oc
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANELS	(3) 16d @ 16"oc
TOP PLATE TO STUD, END NAIL	(2) 16d
STUD TO SOLE PLATE, TOE NAIL	(4) 8d
DOUBLE STUDS AT EXTERIOR WALLS, FACE NAIL	16d @ 12"oc
DOUBLE STUDS, FACE NAIL	16d @ 24"oc
DOUBLE TOP PLATES, FACE NAIL	16d @ 12"oc
TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	(3) 16d
CONTINUOUS HEADER, TWO PIECES	16d @ 16"oc ALONG EACH EDGE
DOUBLE TOP PLATE LAP AT CORNER	(3) 16d
CONTINUOUS HEADER TO STUD, TOE NAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
BUILT-UP CORNER STUDS	16d @ 12"oc
RIBBONS TO STUDS: ONE (1) INCH RIBBONS	(3) 8d
TWO (2) INCH RIBBONS	(3) 16d
CEILING STRIPPING (2x MIN)	16d AT 45 SLANT, 16d AT 90° TO SUPPORTS

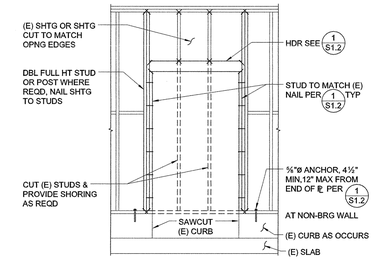
8 NAILING SCHEDULE (PER CBC 2016 TABLE 2304.10.1)
3/4" = 1'-0"



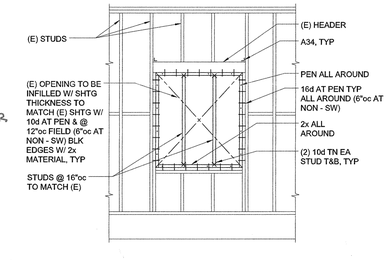
PERPENDICULAR

PARALLEL

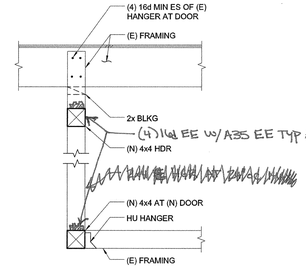
3 TYPICAL NON-BEARING STUD WALL DETAILS
3/4" = 1'-0"



NEW DOOR IN EXISTING WALL (NON-SHEAR WALL)
4 3/8" = 1'-0"



9 SOFFIT FRAMING AT ACCESS HATCH
1" = 1'-0"



5 WINDOW INFILL AT EXISTING WALL
3/8" = 1'-0"

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ARCH PROJECT NO: 1277.04
ENGINEER: CSW
DRAWN BY: ZFA
PTN: 69070-97

DSA BACKCHECK
11/02/17

SHEET TITLE

TYPICAL WOOD DETAILS

SHEET NUMBER

S1.2

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FURNACE SCHEDULE

MARK	MFR.	MODEL NO.	AIRFLOW	ESP (IN.W.C.)	MAX OSA CFM	MIN OSA CFM	HEATING		ELECTRICAL			FILTER	WEIGHT	SERVICE	REMARKS
							INPUT (MBH)	OUTPUT (MBH)	AFUE	V-Ø-HZ	MCA	MOCP					
F 1	CARRIER	59TP6A080E	1350 CFM	0.5	550	150	80.0	78.0	96.2%	115-1-60	14.9	15	MERV 8	152 lb	CLASSROOM 106	1-6
F 2	CARRIER	59TP6A080E	1350 CFM	0.5	550	150	80.0	78.0	96.2%	115-1-60	14.9	15	MERV 8	152 lb	CLASSROOM 101	1-6
F 3	CARRIER	59TP6A080E	1350 CFM	0.5	550	150	80.0	78.0	96.2%	115-1-60	14.9	15	MERV 8	152 lb	CLASSROOM 107	1-6
F 4	CARRIER	59TP6A080E	1350 CFM	0.5	550	150	80.0	78.0	96.2%	115-1-60	14.9	15	MERV 8	152 lb	CLASSROOM 102	1-6
F 5	CARRIER	59TP6A080E	1350 CFM	0.5	550	150	80.0	78.0	96.2%	115-1-60	14.9	15	MERV 8	152 lb	CLASSROOM 108	1-6
F 6	CARRIER	59TP6A080E	1350 CFM	0.5	550	150	80.0	78.0	96.2%	115-1-60	14.9	15	MERV 8	152 lb	CLASSROOM 103	1-6
F 7	CARRIER	59TP6A080E	1350 CFM	0.5	550	150	80.0	78.0	96.2%	115-1-60	14.9	15	MERV 8	152 lb	CLASSROOM 109	1-6
F 8	CARRIER	59TP6A080E	1350 CFM	0.5	550	150	80.0	78.0	96.2%	115-1-60	14.9	15	MERV 8	152 lb	CLASSROOM 104	1-6
F 9	CARRIER	59TP6A080E	1350 CFM	0.5	550	150	80.0	78.0	96.2%	115-1-60	14.9	15	MERV 8	152 lb	CLASSROOM 110	1-6
F 10	CARRIER	59TP6A080E	1350 CFM	0.5	550	150	80.0	78.0	96.2%	115-1-60	14.9	15	MERV 8	152 lb	CLASSROOM 105	1-6

REMARKS:
1. PROVIDE W/ 4" FILTER RACK W/ ACCESS PANEL FOR BOTTOM RETURN.
2. PROVIDE W/ ECONOMIZER WITH BELIMO ACTUATOR FOR DEMAND CONTROL VENTILLATION AND BASE ELECTRO MECHANICAL CONTROLS.
3. CONTROLS CONTRACTOR TO PROVIDE UNIT CONTROLS AND INTERFACE TO EXISTING EMS.
4. PROVIDE W/ 3" CONCENTRIC EXHAUST AND COMBUSTION AIR FLUE.
5. PROVIDE W/ ACID NEUTRALIZATION KIT AND AUXILLARY CONDENSATE PUMP W/ FAULT SIGNAL TO EMS, LITTLE GIANT OR EQUIVALENT.
6. PROVIDE W/ THERMOSTATS, CO2 SENSORS AND CO SENSORS.

SPLIT SYSTEM INDOOR UNIT SCHEDULE

MARK	MFR	MODEL	AIRFLOW	ELECTRICAL DATA	CEI MCA	CEI MOCP	FILTER	WEIGHT	SERVICE	REMARKS
				V-Ø-HZ						
FC-1	DAIKIN	FTK12NMVJU	434 CFM	SEE OUTDOOR UNIT	12.2	15	INTEGRAL WASHABLE	18 lb	WORKROOM 114	1-3

REMARKS:
1. PROVIDE W/ T-STAT
2. INDOOR UNIT POWERED FROM OUT DOOR UNIT
3. PROVIDE CONDENSATE PUMP AND PIPE CONDENSATE DRAIN TO CUSTODIAL SINK.

CONDENSING UNIT SCHEDULE

MARK	MFR	MODEL NO.	COOLING (MBH)		SEER	ELECTRICAL DATA			WEIGHT	SERVICE	REMARKS
			SENS COOLING	TOTAL COOLING		V-Ø-HZ	MCA	MOCP			
CU 1	DAIKIN	RK12NMVJU	9.5	10.9	19	208-230-1-60	12.2	15	60 lb	WORKROOM 114	1

REMARKS: 1. MOUNT PER DETAIL C/MP-5.1

EXHAUST FAN SCHEDULE

MARK	MFR	MODEL NO	AIRFLOW	FAN RPM	INLET SONES	EXTERNAL SP (IN.WG)	ELECTRICAL DATA				WEIGHT	SERVICE	REMARKS
							MOTOR HP	OPER. HP	AMPS	V-Ø-Hz			
EF-1	GREENHECK	G-099-VG	600 CFM	932	5.5	0.125	1/4	0.04	0.0	115-60-1	35.00 lb	GIRLS RESTROOM	1
EF-2	GREENHECK	G-099-VG	600 CFM	932	5.5	0.125	1/4	0.04	0.0	115-60-1	35.00 lb	BOYS RESTROOM	1

REMARKS:
1. TIE EXHAUST FANS INTO EXISTING BUILDING EMS CONTROLS.

PLUMBING FIXTURE SCHEDULE

MARK	W	V	CW	HW	REMARKS
P-1	4"	2"	1 1/2"		WALL MOUNTED WATER CLOSET
P-1A	4"	2"	1 1/2"		WALL MOUNTED WATER CLOSET (ADA)
P-2	2"	1 1/2"	3/4"	0"	WALL MOUNTED LAVATORY (SAD FOR MOUNTING HEIGHT)
P-2A	2"	1 1/2"	3/4"	0"	WALL MOUNTED LAVATORY (SAD FOR MOUNTING HEIGHT)
P-3	2"	2"	1"		WALL MOUNTED URINAL (S.A.D.FOR MOUNTING HEIGHT)
P-6A	2"	1 1/2"	3/4"		HI-LO DRINKING FOUNTAIN WITH WATER BOTTLE FILLER
P-6B	2"	1 1/2"	3/4"		SINGLE DRINKING FOUNTAIN WITH WATER BOTTLE FILLER
HB-1			3/4"		HOSE BIBB
FD	2"	1 1/2"			FLOOR DRAIN

GENERAL NOTES

1. ALL WORK IS SHOWN, DESCRIBED OR SPECIFIED IN THE DRAWINGS INDEXED ON THIS PAGE OR IN THE SPECIFICATIONS. ALL WORK NOT INDICATED AS EXISTING (E) IS NEW.
2. ALL FRAMING DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. DO NOT SCALE DRAWINGS.
4. VERIFY ALL DIMENSIONS WHERE WORK INVOLVES FRAMING FOR WINDOWS, DOORS, OR CABINETS.
5. ONLY WORK SO NOTED IS NOT IN CONTRACT (N.I.C.) ALL N.I.C. ITEMS ARE NOT PART OF DSA APPROVAL.
6. GOVERNING CODES:
   CALIFORNIA CODE OF REGULATIONS TITLE 24 BUILDING STANDARDS CODE:
   - PART 1 2016 CALIFORNIA ADMINISTRATIVE CODE
   - PART 2 2016 CALIFORNIA BUILDING CODE, VOLUMES 1 AND 2
   - PART 3 2016 CALIFORNIA ELECTRICAL CODE
   - PART 4 2016 CALIFORNIA MECHANICAL CODE.
   - PART 5 2016 CALIFORNIA PLUMBING CODE
   - PART 6 2016 CALIFORNIA ENERGY CODE
   - PART 9 2016 CALIFORNIA FIRE CODE
   - PART 11 2016 CALIFORNIA GREEN BUILDING STANDARDS (CAL-GREEN)

   CALIFORNIA CODE OF REGULATIONS TITLE 19 PUBLIC SAFETY CODE
   2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN
7. STANDARD AND GUIDES:
   NFPA 13 2016 - INSTALLATION OF FIRE SPRINKLER SYSTEMS (CA AMENDED)
   NFPA 14 2016 - INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS (CA AMENDED)
   NFPA 17 2017 - DRY CHEMICAL EXTINGUISHING SYSTEMS
   NFPA 17A 2017 - WET CHEMICAL FIRE EXTINGUISHING SYSTEMS
   NFPA 20 2016 - INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
   NFPA 24 2016 - INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED)
   NFPA 25 2017 - CALIFORNIA EDITION - TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
   NFPA 72 2016 - NATIONAL FIRE ALARM CODE (CA AMENDED)
   NFPA 110 2016 - EMERGENCY AND STANDBY POWER SYSTEMS
   NFPA 170 2015 - STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS
   NFPA 2001, 2015 Edition - CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)
   ICC 300 2012 BLEACHERS FOLDING AND TELESCOPING SEATING AND GRANDSTANDS ACC/ANSI 300-2002
8. A COPY OF TITLE 24 | AND ALL APPLICABLE PARTS REFERENCED BY PLANS AND SPECIFICATIONS SHALL BE KEPT ON THE JOB AT ALL TIMES.

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
X		EQUIPMENT TYPE
X		EQUIPMENT NUMBER
X / X-X		DETAIL / DRAWING NUMBER / SHEET NUMBER
X-XX		FIXTURE TYPE/NUMBER
	(N)	NEW PLUMBING AND PIPING SHOWN HEAVY
	(E)	EXISTING PLUMBING AND PIPING SHOWN LIGHT
	SS	SANITARY WASTE ABOVE GROUND
	SS	SANITARY WASTE BELOW GROUND
	V	VENT PIPE
	CW	DOMESTIC COLD WATER PIPE
	HW	DOMESTIC HOT WATER PIPE
	HWR	HOT WATER RETURN PIPE
110°	110°	TEMPERED HOT WATER PIPE
CA	CA	COMPRESSED AIR
CD	CD	CONDENSATE DRAIN
FW	FW	FILTERED WATER
G	G	NATURAL GAS PIPE
ID	ID	INDIRECT WASTE
LPG	LPG	LIQUID PROPANE GAS
N2	N2	NITROGEN
N20	N20	NITROUS OXIDE
OA	OA	OIL FREE AREA
O2	O2	OXYGEN
PW	PW	PROCESS WASTE PIPE
RVD	RVD	RELIEF VALVE DISCHARGE
RWL	RWL	RAIN WATER LEADER
SD	SD	STORM DRAIN PIPE
VAC	VAC	VACUUM LINE
	GV	GATE VALVE
		GLOBE VALVE
	BV	BALL VALVE
	BFV	BUTTERFLY VALVE
	CV	CHECK VALVE
		BALANCING VALVE
		GAS COCK OR STOP
	PRV	PRESSURE REDUCING VALVE
	TV	TEMPERING VALVE
		STRAINER
		UNION
		PRESSURE GAUGE AND COCK
	P	PUMP
		THERMOMETER
	CO	CLEANOUT
	WCO	WALL CLEANOUT
	FCO	FLOOR CLEANOUT
	COTG	CLEANOUT TO GRADE
		PRESSURE GUAGE WELL ONLY (PETE'S PLUG)
	HB	HOSE BIBB
		PIPE UP
		PIPE DOWN
		BRANCH TOP CONNECTION
		BRANCH BOTTOM CONNECTION
		BRANCH SIDE CONNECTION
		CAP ON END OF PIPE
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		VALVE IN RISER
		POINT OF CONNECTION
		POINT OF DEMOLITION
		CENTER LINE
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	BFF	BELOW FINISHED FLOOR
	CI	CAST IRON
	COTG	CLEANOUT TO GRADE
	DMV	DRAIN, WASTE, AND VENT
	DN	DOWN
	DW	DISHWASHER
	DWG	DRAWING
	(E)	EXISTING
	FCO	FLOOR CLEANOUT
	IE	INVERT ELEVATION
	IW	INDIRECT WASTE
	(N)	NEW
	NIC	NOT IN CONTRACT
	NTS	NOT TO SCALE
	SAD	SEE ARCHITECTURAL DRAWINGS
	SCD	SEE CIVIL DRAWINGS
	SED	SEE ELECTRICAL DRAWINGS
	SMD	SEE MECHANICAL DRAWINGS
	SSD	SEE STRUCTURAL DRAWINGS
	TYP	TYPICAL
	UMC	UNIFORM MECHANICAL CODE
	UPC	UNIFORM PLUMBING CODE
	UNO	UNLESS NOTED OTHERWISE
	V	VENT
	VTR	VENT THROUGH ROOF
	WCO	WALL CLEANOUT

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
X		EQUIPMENT TYPE
X		EQUIPMENT NUMBER
X / X-X		DETAIL / DRAWING NUMBER / SHEET NUMBER
	SA OR OA	SECTION THRU SUPPLY AIR OR OUTSIDE AIR DUCT
	RA OR EA	SECTION THRU RETURN AIR OR EXHAUST AIR DUCT
		ROUND DUCT DOWN
DN	DN OR UP	SLOPE DUCT DOWN OR UP IN DIRECTION OF FLOW
	AL	ACOUSTICAL LINING
	FC	FLEXIBLE DUCT CONNECTION
	VD	VOLUME DAMPER
	FD	FIRE DAMPER
	TV	TURNING VANES
		FLEXIBLE DUCT
		45° ROUND DUCT TAKE-OFF
		45° RECTANGULAR DUCT TAKE-OFF
		90° TURN - ROUND DUCT
		90° RADIUS TURN - ROUND OR RECTANGULAR DUCT
		SQUARE TO ROUND DUCT TRANSITION
		DUCT TRANSITION
		RECTANGULAR DUCT 90° SPLIT
T		THERMOSTAT
	AP	ACCESS PANEL
	POC	POINT OF CONNECTION
	POD	POINT OF DEMOLITION
	BHP	BRAKE HORSEPOWER
	HP	HORSEPOWER

AIR TERMINAL SCHEDULE

MANUFACTURER: TITUS (EXCEPT AS NOTED)

WSG		WALL SUPPLY GRILLE	272 RL STEEL CONSTRUCTION, DOUBLE DEFLECTION HORIZONTAL BLADES, OBD, EQUALIZING GRID
WRG		WALL RETURN GRILLE	23 RF, LOUVERS ON 3/4" CENTERS W/ OBD STEEL CONSTRUCION, LOUVERS PARALLEL WITH LONG DIMENSION
EG CR		EXHAUST GRILLE CEILING RETURN	50-FS, 1/2"x1/2"x1/2" ALUMINUM GRID W/ OPPOSED BLADE DAMPER

NOTES: 1. ADAPTER NEEDED FOR TRANSITION FROM SQUARE NECK TO ROUND DUCT.
2. SIZE (NECK/FACE) TYPE / CFM (NO. OF THROW) FACE SIZE FOR T-BAR CEILING ONLY.

LIST OF APPLICABLE CODES AND STANDARDS:

TITLE 24, PART 1: 2016 CALIFORNIA ADMINISTRATIVE CODE
TITLE 24, PART 2: 2016 CALIFORNIA BUILDING CODE (VOLUMES 1 & 2)
TITLE 24, PART 3: 2016 CALIFORNIA ELECTRICAL CODE
TITLE 24, PART 4: 2016 CALIFORNIA MECHANICAL CODE
TITLE 24, PART 5: 2016 CALIFORNIA PLUMBING CODE
TITLE 24, PART 6: 2016 CALIFORNIA ENERGY CODE
TITLE 24, PART 9: 2016 CALIFORNIA FIRE CODE
TITLE 24, PART 11: 2016 CALGREEN CODE
TITLE 24, PART 12: 2016 CALIFORNIA REFERENCED STANDARDS CODE

MEP COMPONENT ANCHORAGE NOTE:

All mechanical, plumbing, and 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 2016 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapters 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 8 hours and heavier than 400 pounds are required to be anchored with temporary attachments.

The following mechanical and electrical components shall be positively attached to the structure, but need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacnet 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 a wall.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the Structural Engineer of Record and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, ductwork, and 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 13.6.8, 13.6.7, 13.6.5.6, and 2016 CBC, Sections 1616A.1.23, 1616A.1.24, 1616A.1.25, and 1616A.1.26.

The bracing and attachments to the structure shall be detailed on the approved drawings or they shall comply with one of the OSHPD Pre-Approvals (OPM #0043-13) as modified to satisfy the anchorage requirements of ACI318, CHAPTER 17.

Copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of hanging and bracing of the pipe, ductwork, and electrical distribution systems.

The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

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(SSFUSD #05-17)

South San Francisco Unified School District

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116522
AC FLS SS KF
DATE NOV 09 2017

ARCH PROJECT NO:		1277.04
DRAWN BY:		
DRAWING SCALE:		NTS
PTN:		69070-97

DSA BACKCHECK

11/02/2017

SHEET TITLE

MECHANICAL PLUMBING SCHEDULES & LEGENDS

SHEET NUMBER

MP-1.1

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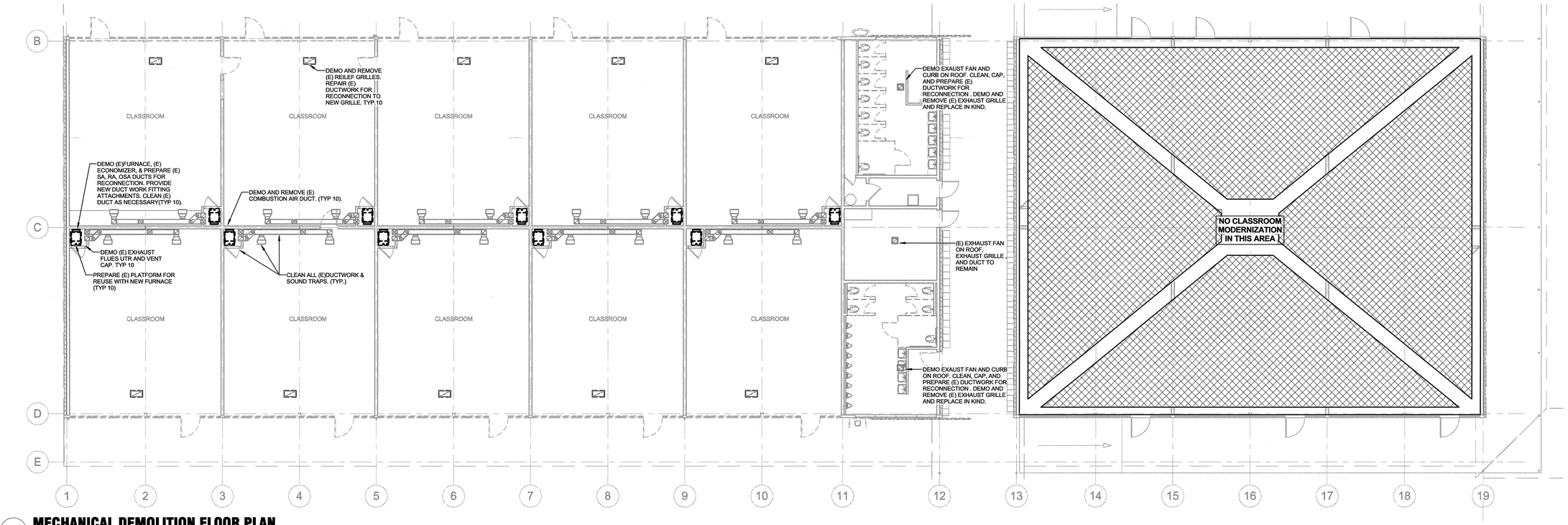
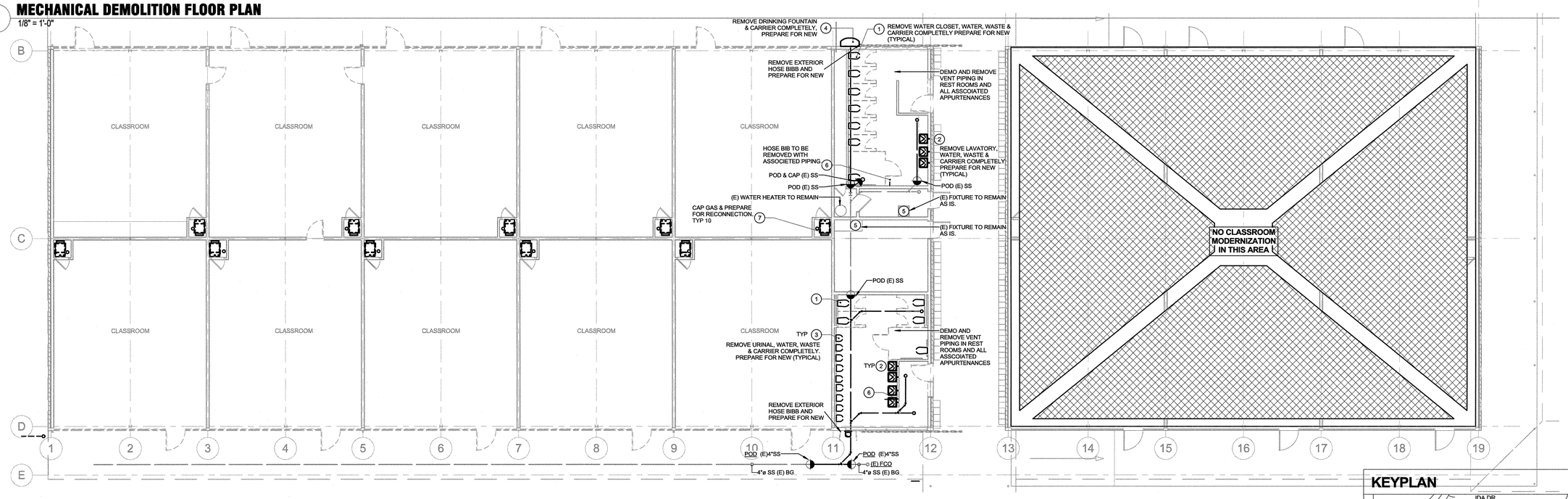


1 MECHANICAL DEMOLITION FLOOR PLAN

1/8" = 1'-0"



2 PLUMBING DEMOLITION FLOOR PLAN

1/8" = 1'-0"

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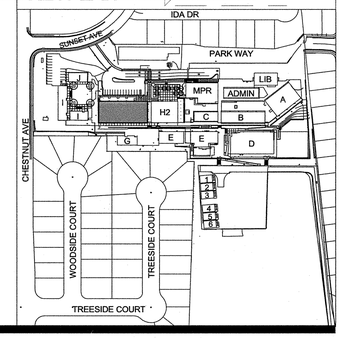
SHEET TITLE

MECHANICAL PLUMBING DEMOLITION FLOOR PLANS

SHEET NUMBER

MPD-2.1

KEYPLAN



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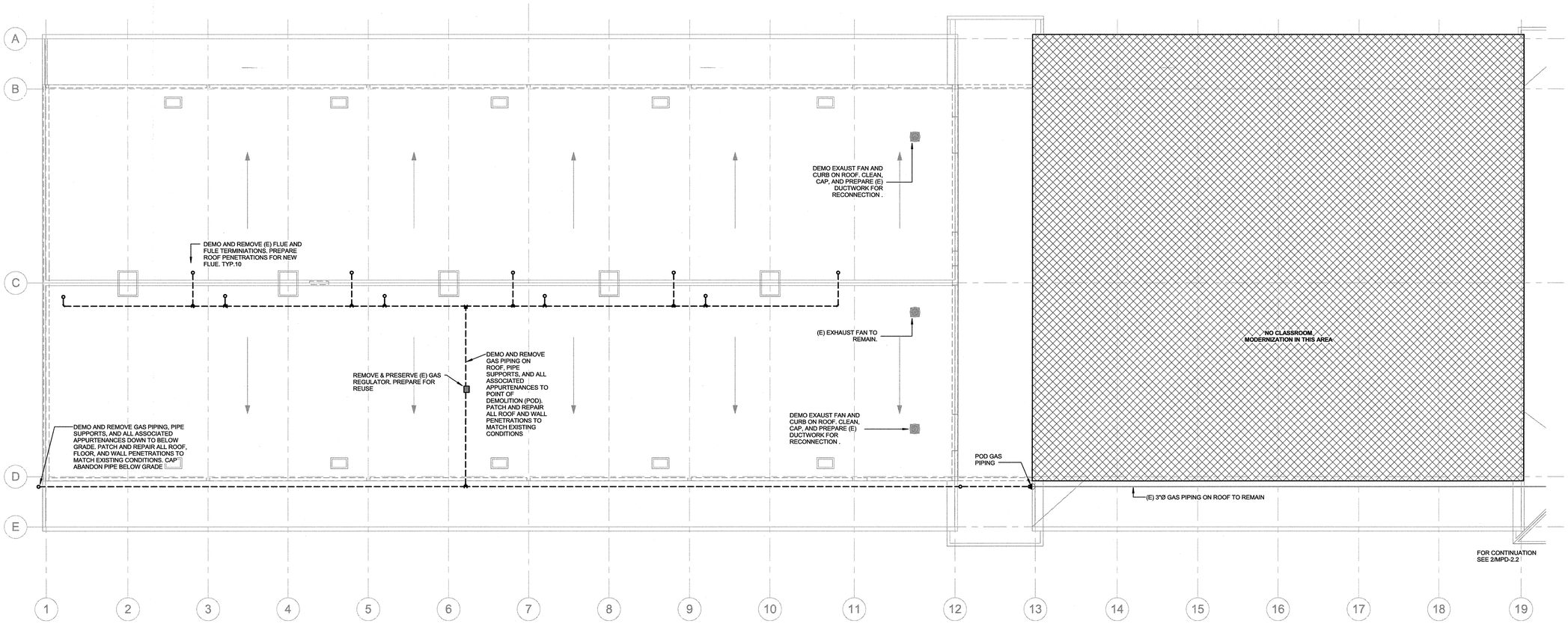
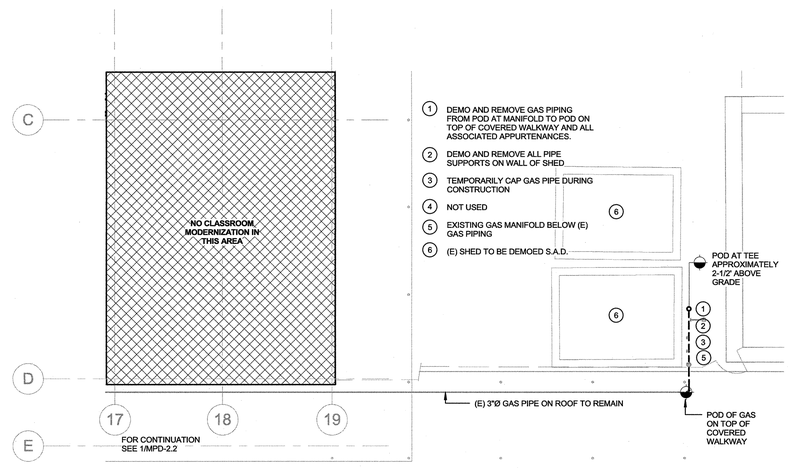


1 MP DEMO ROOF PLAN
1/8" = 1'-0"



2 PLUMBING DEMO GAS ROOF PLAN
1/8" = 1'-0"

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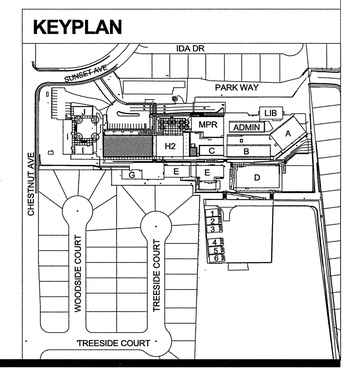
SHEET TITLE

MP DEMO ROOF PLAN

SHEET NUMBER

MPD-2.2

KEYPLAN



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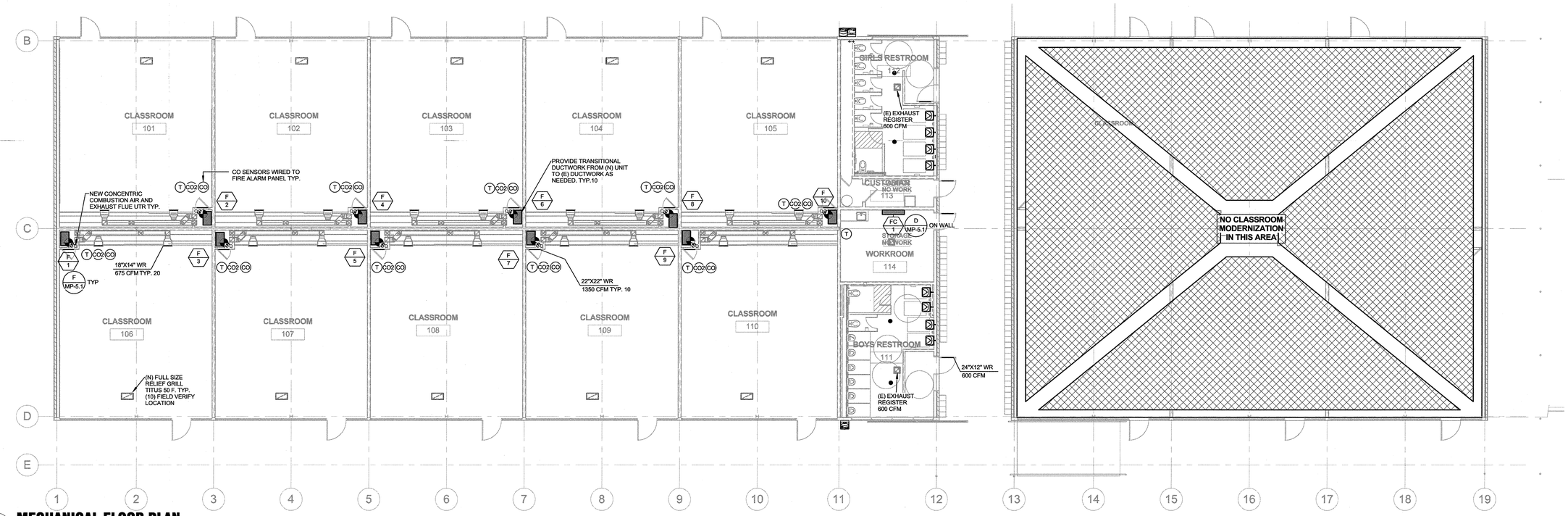
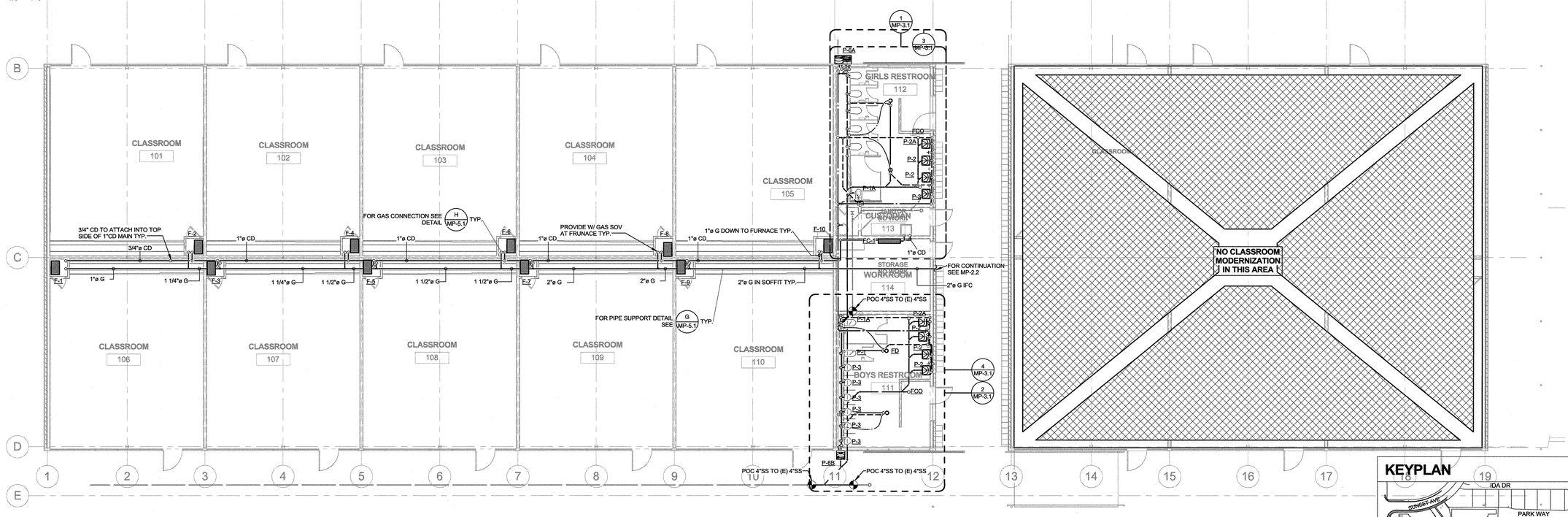


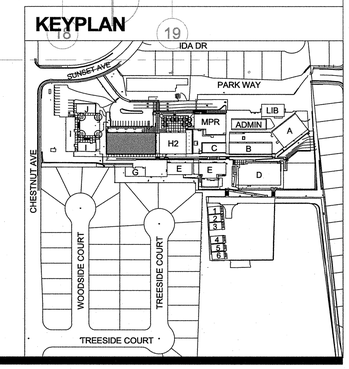
1 MECHANICAL FLOOR PLAN

1/8" = 1'-0"



2 PLUMBING FLOOR PLAN

1/8" = 1'-0"



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SHEET TITLE

MECHANICAL PLUMBING FLOOR PLANS

SHEET NUMBER

MP-2.1

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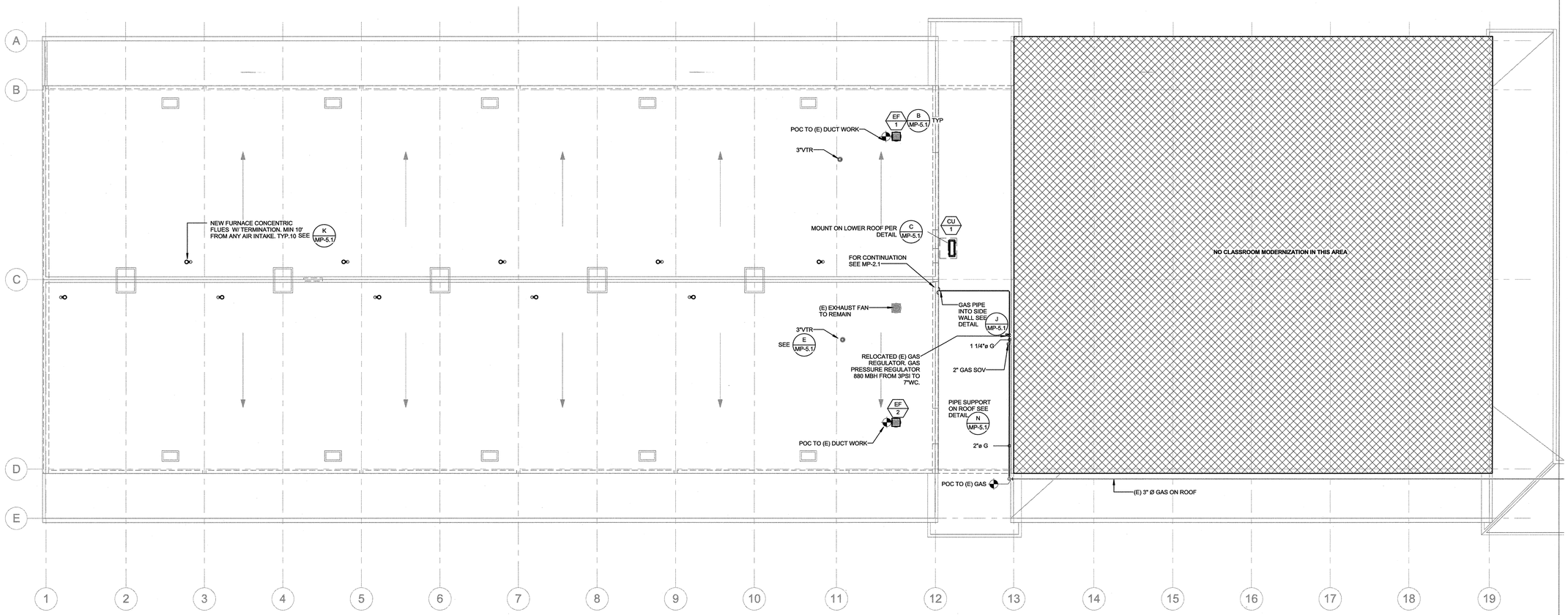
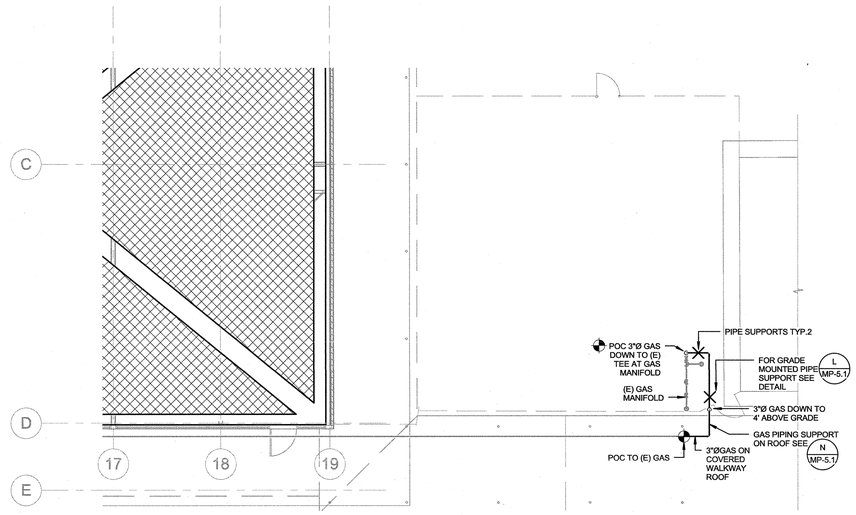


1 MECHEANICAL PLUMBING ROOF PLAN
1/8" = 1'-0"



2 PLUMBING GAS ROOF PLAN
1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
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Exp. 12-31-18
MECHANICAL
STATE OF CALIFORNIA

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080
(SSFUSD #05-17)

South San Francisco Unified School District

398 B Street
South San Francisco
CA 94080-4423

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

FILE NO: 41-28
PPL NO: 01-116522
AC FLS SS KF
DATE 11/9/17

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE: 1/8" = 1'-0"
PTN: 69070-97

DSA BACKCHECK

11/02/2017

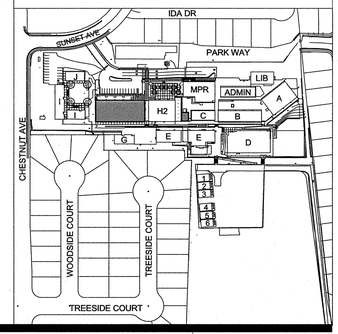
SHEET TITLE

MECHANICAL PLUMBING ROOF PLANS

SHEET NUMBER

MP-2.2

KEYPLAN



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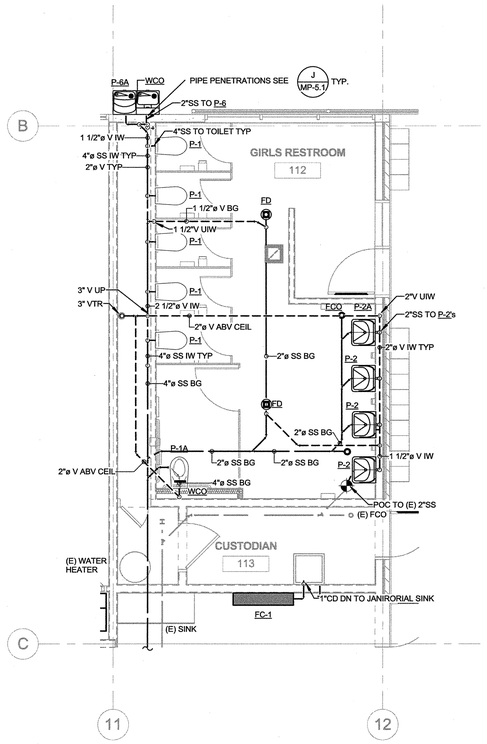
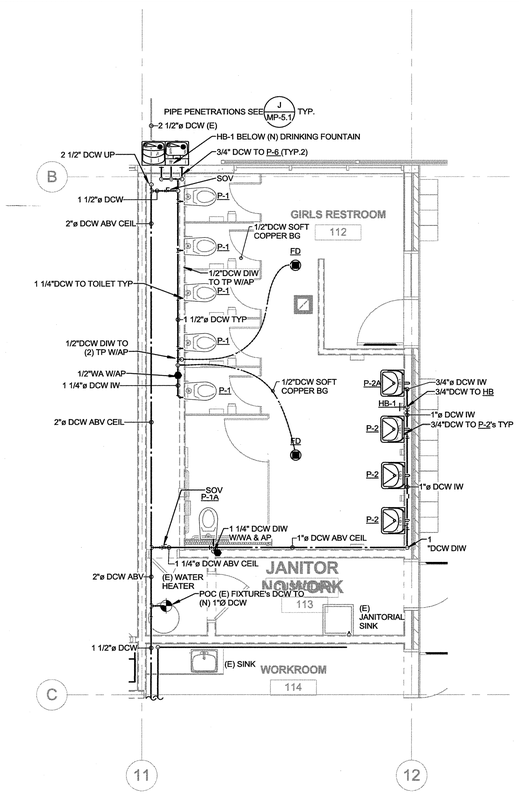
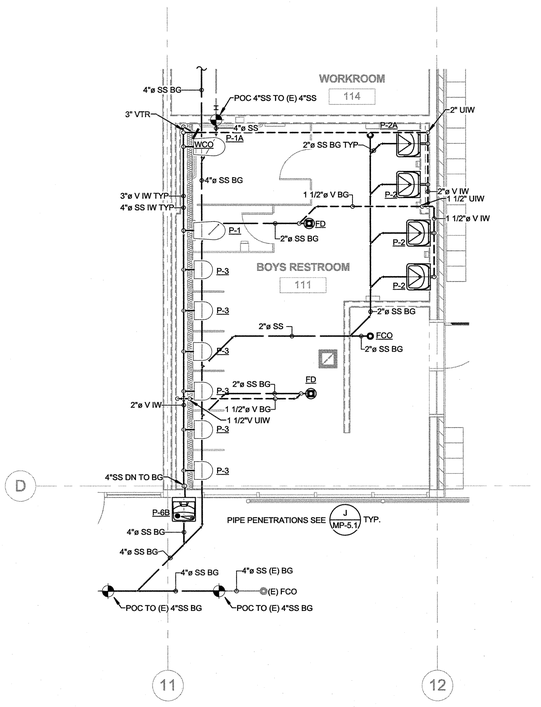


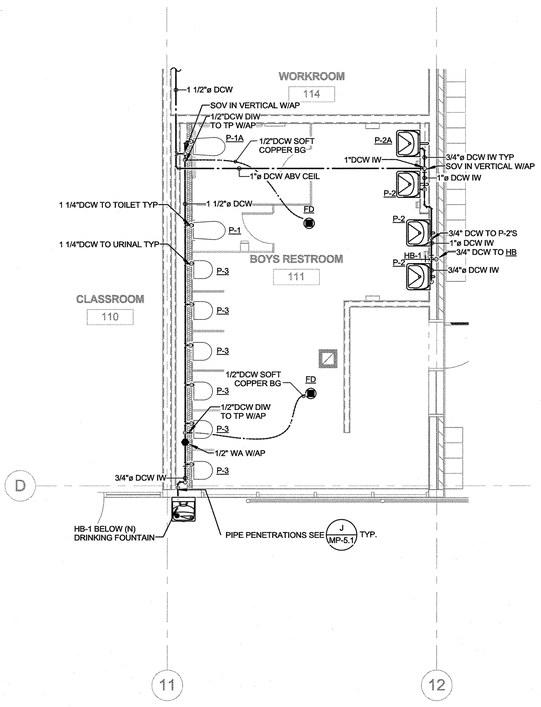
1 PLUMBING GIRLS - WASTE & VENT ENLARGEMENT
1/4" = 1'-0"



3 PLUMBING GIRLS - WATER & GAS ENLARGEMENT
1/4" = 1'-0"

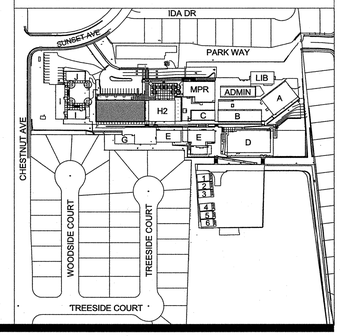


2 PLUMBING BOYS - WASTE & VENT ENLARGEMENT
1/4" = 1'-0"



4 PLUMBING BOYS - WATER & GAS ENLARGEMENT
1/4" = 1'-0"

KEYPLAN



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SHEET TITLE

MECHANICAL PLUMBING ENLARGED FLOOR PLANS

SHEET NUMBER

MP-3.1

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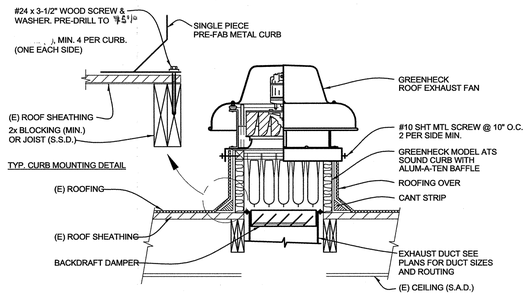
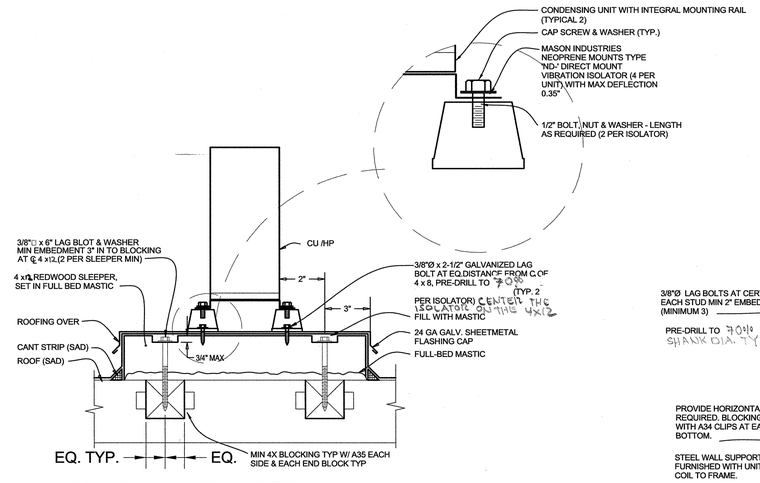


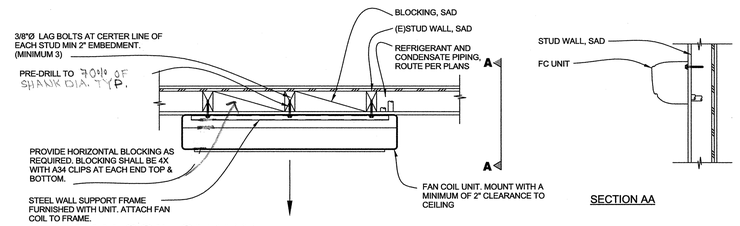
B ROOFTOP EXHAUST FAN MOUNTING DETAIL

SCALE: NONE



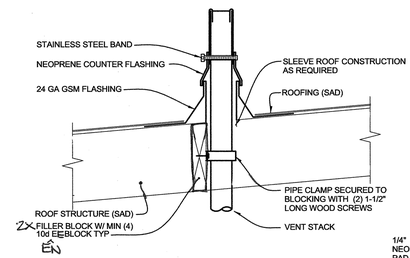
C CU ROOF MOUNTING DETAILS

SCALE: NONE



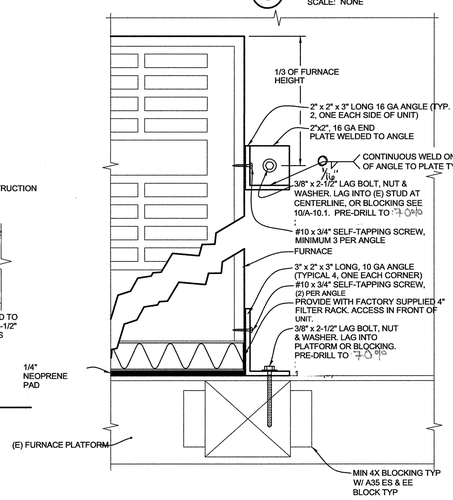
D FAN COIL ON WALL

SCALE: NONE



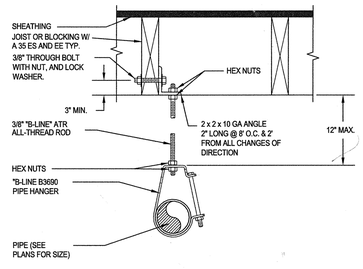
E VENT THRU ROOF DETAIL

SCALE: NONE



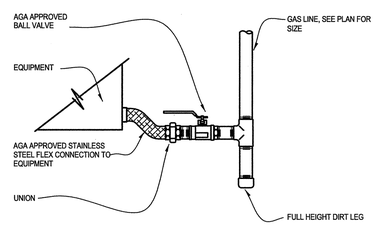
F FURNANCE ON (E) WOOD PLATFORM

SCALE: NONE



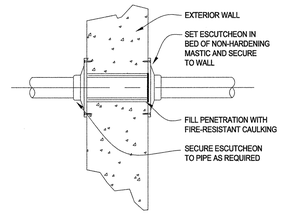
G PIPE SUPPORT DETAIL

SCALE: NONE



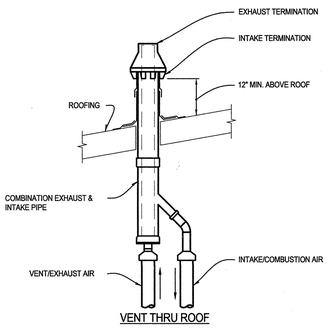
H GAS CONNECTION DETAIL

SCALE: NONE



J PIPE PENETRATION DETAIL

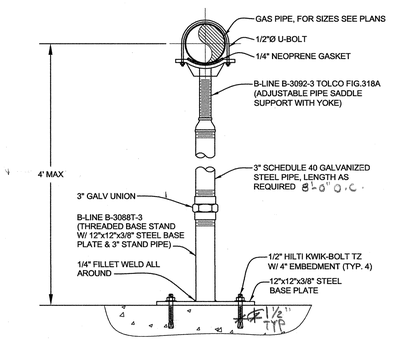
SCALE: NONE



NOTE: MAINTAIN MIN./MAX. CLEARANCES PER MANUFACTURER'S INSTRUCTIONS

K CONCENTRIC VENT DETAIL

SCALE: NONE



L GAS PIPE SUPPORT DETAIL

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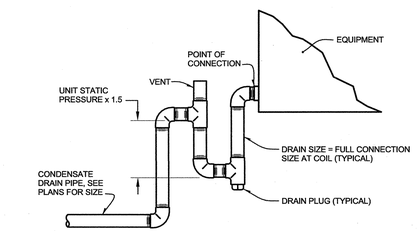
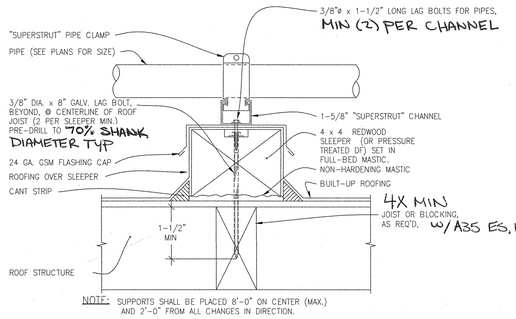


M CONDENSTE CONNECTION DETAIL

SCALE: NONE



NOTE: SUPPORTS SHALL BE PLACED 8'-0" ON CENTER (MAX.) AND 2'-0" FROM ALL CHANGES IN DIRECTION.

N PIPE ON ROOF DETAIL

NOT TO SCALE

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11/02/2017

SHEET TITLE

MECHANICAL / PLUMBING DETAILS

SHEET NUMBER

MP-5.1

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Furnace Unit with Economizer, Demand Control Ventilation & Zone Occupancy Monitoring

1. System Overview

a. Each Furnace unit will be directly controlled by its own dedicated EMS (Energy Management System) unitary controller.

b. EMS unitary controller will be connected to a wall mounted electronic zone temperature sensor with integral relative humidity sensor and CO2 sensor.

c. Electronic zone temperature sensor shall have a touch screen LCD interface which includes: 1) digital pushbuttons for warmer/cooler setpoint control; 2) visual display of room temperature, room humidity, room CO2 and ambient OSA temperature; and 3) digital pushbutton after-hours override timer control, with user adjustable duration. The after-hours override duration shall have the ability to be limited from the front-end.

2. Occupancy/Vacancy Monitoring

a. Zone occupancy and vacancy will be actively monitored by connection to Lighting Control System occupancy sensor(s). If available, monitoring shall be accomplished via BACnet system integration. Otherwise, BAS contractor shall monitor auxiliary contacts on Lighting Control System occupancy sensor(s).

3. Unit Fan Operation

a. When the zone is in Occupied Mode or in Afterhours Mode, the fan shall run continuously, unless Vacant Mode has been triggered.

b. During the Unoccupied Mode as determined by EMS time schedule, the unit fan cycles with demand and the temperature is controlled by the unoccupied space temperature heating and cooling setpoints.

4. Minimum Outdoor Air Ventilation

a. During Occupied Mode or Afterhours Mode, the economizer damper shall be commanded by the EMS unitary controller to maintain a position which satisfies the Minimum Outdoor Air ventilation requirements for the zone. Damper position(s) determined by Air Balancing Contractor.

5. Demand Control Ventilation

a. EMS unitary controller will be connected to a wall mounted CO2 sensor to monitor zone CO2 concentration.

b. During Occupied Mode or Afterhours Mode, the EMS unitary controller shall reset the outside air damper minimum position to maintain the CO2 concentration below 1,000 ppm.

6. Automatic Demand Reduction Controls

a. EMS shall be programmed with capability to implement centralized demand shed for all non-critical zones upon call for Automatic Demand Reduction. Critical zones shall not be impacted by demand shed conservation measures.

7. Vacant Mode Control

a. When the zone has been scheduled for occupancy for at least one hour and the occupancy sensor has confirmed that zone has been vacant for 5 minutes (adjustable: maximum 30 minutes), zone shall be placed into Vacant Mode.

b. Reset cooling and heating setpoints up and down by 2°F (adjustable) or more.

c. Minimum Outdoor Air ventilation requirements in the zone need only be maintained 15 minutes out of every 60 minutes while the zone is in Vacant Mode.

d. Upon detection of occupancy, Vacant Mode shall be cleared.

8. Zone Pre-Occupancy Purge

a. The EMS shall schedule the zone to be in Occupied Mode one hour prior to the actual time of anticipated occupancy.

9. Heating operation

a. The controller compares the heating setpoint with the space temperature and determines a need-heating control signal to stage a gas regulating valve on the unit.

b. Economizer to be commanded to Min CFM setpoint during heating mode.

10. Cooling operation

a. The controller compares the cooling setpoint with the space temperature and determines a need-cooling signal.

b. A call for cooling will enable the economizer to provide free cooling for as long as possible.

c. Mechanical heating to be locked out during cooling mode.

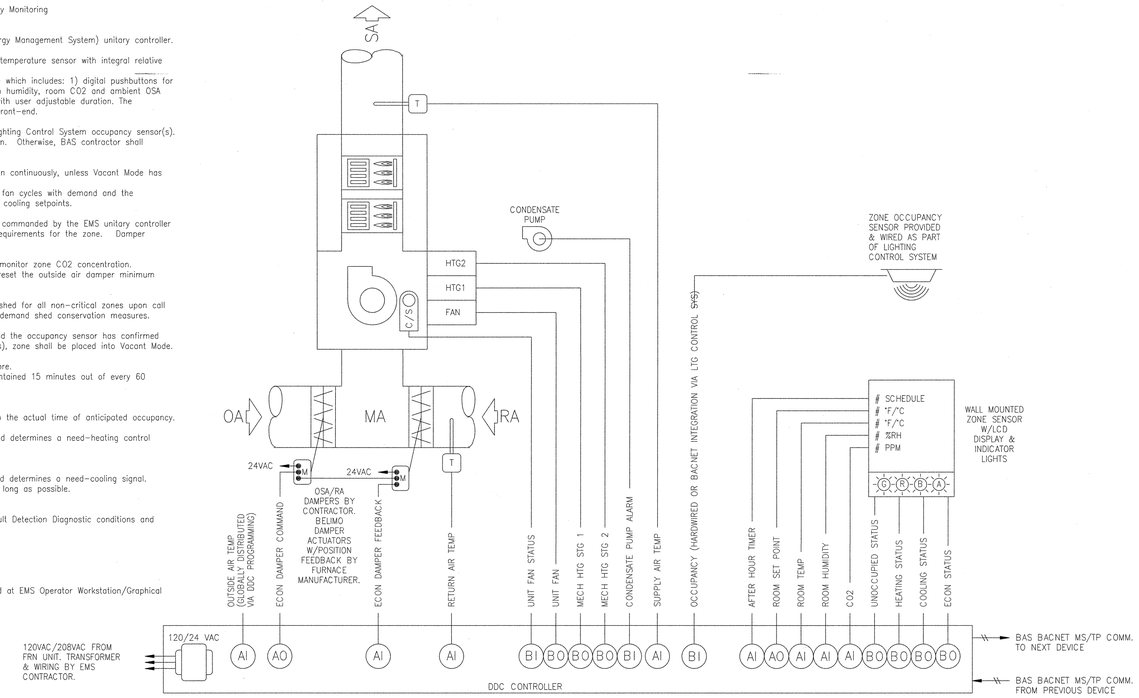
11. Fault Detection Diagnostics

a. The EMS DDC Controller shall monitor the following economizer actuator Fault Detection Diagnostic conditions and broadcast results via EMS network:

i. Temperature Sensor Failure/Fault
ii. Economizer not economizing when enabled
iii. Economizer economizing when disabled
iv. Economizer damper modulation failure
v. Excess outdoor air

12. Monitoring – The following conditions shall be monitored and displayed at EMS Operator Workstation/Graphical User Interface:

a. Supply air temperature.
b. Room temperature.
c. Room humidity.
d. Room CO2 concentration.
e. Room occupancy status.
f. Current mode (heating/cooling/fan).
g. Supply air temperature attained last time unit was in heating.
h. Current command status of fan, economizer and gas valve.
i. Run time meters on fan and heat.
j. Fan Status thru Current Switch.
k. Economizer actuator feedback status.

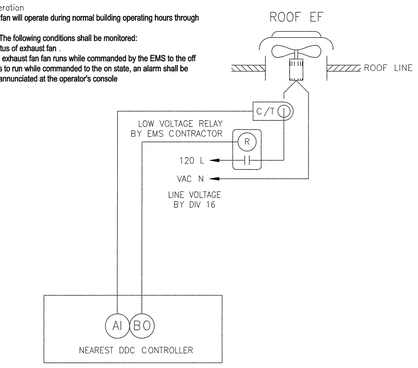


A FURANCE CONTROLLERS

SCALE: NONE

Exhaust Fan Operation

1. The exhaust fan will operate during normal building operating hours through EMS timeclock.
2. Monitoring - The following conditions shall be monitored:
   a. Status of exhaust fan .
3. Alarm - If the exhaust fan fan runs while commanded by the EMS to the off state or if it fails to run while commanded to the on state, an alarm shall be displayed and annunciated at the operator's console

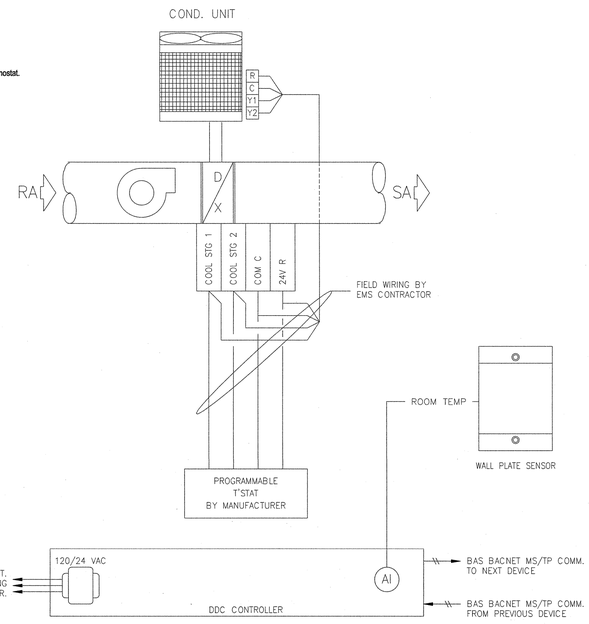


B EXHAUST FAN CONTROL DIAGRAM

SCALE: NONE

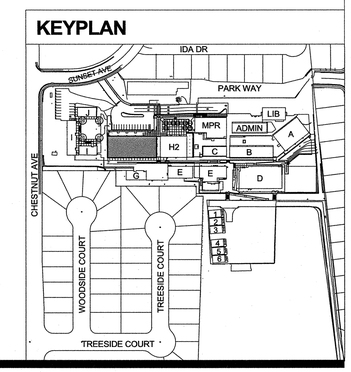
Fan Coil Operation

1. The Fan Coil unit will operate under its own controls to maintain room temperature setpoint as determined by wall mounted programmable thermostat.
2. Monitoring - The following conditions shall be monitored by the EMS:
   a. Zone temp.
3. Alarm - If the zone temp exceeds 80°F (adjustable), an alarm shall be displayed and annunciated at the operator's console



C IDF MONITOR CONTROL DIAGRAM

SCALE: NONE



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MECHANICAL CONTROLS

SHEET NUMBER

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PARKWAY HEIGHTS MS 2016 MODERNIZATION – 216106

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
C	CONDUIT
CATV	CABLE TV
C.O.	CONDUIT ONLY
CU	COPPER
E.C.	ELECTRICAL CONTRACTOR
E	EMERGENCY LIGHT FIXTURE ON EMERGENCY GENERATOR OR INVERTER, SWITCHABLE, U.O.N.
EM	EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, SWITCHABLE
EMS	ENERGY MANAGEMENT SYSTEM
(E)	EXISTING
EQUIP	EQUIPMENT
(ER)	EXISTING EQUIPMENT TO BE RELOCATED
(EX)	EXISTING EQUIPMENT TO BE DISCONNECTED AND REMOVED
EXT.	EXTERIOR
GFI	GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE
IDF	INTERMEDIATE DISTRIBUTION FRAME
L	LOCKABLE
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MFR	MANUFACTURER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N.E.C.	NATIONAL ELECTRICAL CODE
NEU.	NEUTRAL
N.I.E.C.	NOT IN ELECTRICAL CONTRACT
NL	NIGHT LIGHT FIXTURE ON 24 HOURS
O.A.H.	OVERALL HEIGHT
O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
P	INDICATES FIXTURES ON PHOTOCELL CONTROL
PA	PUBLIC ADDRESS
PNL	PANEL
S.A.D.	SEE ARCHITECTURAL DRAWINGS
STC	SIGNAL TERMINAL CABINET
TC	INDICATES FIXTURES ON TIMECLOCK CONTROL
TELE	TELEPHONE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
U.O.N.	UNLESS OTHERWISE NOTED
VAV	VAV BOX, SEE MECHANICAL DIVISION DRAWINGS FOR LOCATIONS. PROVIDE TOGGLE TYPE DISCONNECT SWITCH
WP	WEATHER PROOF, NEMA 3R
WPIU	WEATHER PROOF IN USE

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 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10, CHAPTER 26, 13, 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 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON 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 STRUCTURAL ENGINEER OF RECORD 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 NOTES:

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 13.6.8, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25, AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALED MANUFACTURER'S CERTIFICATIONS (OPM) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318-11 CHAPTER 17.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACED LOADS.

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 #14 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 OR EQUAL TO 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

- FUSED EQUIPMENT DISCONNECT SWITCH WITH FUSE SIZE AS RECOMMENDED BY EQUIPMENT MANUFACTURER
- MOTOR DISCONNECT SWITCH; HORSEPOWER RATED, NON FUSE
- COMBINATION MAGNETIC MOTOR STARTER, MOTOR CIRCUIT PROTECTOR AND FUSIBLE DISCONNECT
- MAGNETIC MOTOR STARTER
- VFD — VARIABLE FREQUENCY DRIVE, FURNISHED BY MECHANICAL, INSTALLED & CONNECTED COMPLETE BY ELECTRICAL
- MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION
- MOTOR WITH FLEXIBLE CONDUIT CONNECTION AND DISCONNECT
- T — TRANSFORMER
- CONCRETE PULLBOX, SIZE AS REQUIRED OR SHOWN - CHRISTY OR EQUAL WITH LABELED LID PER USE
- COPPER GROUND ROD
- J — FLUSH CEILING MOUNTED JUNCTION BOX, U.O.N.
- J — FLUSH WALL MOUNTED JUNCTION BOX, UP 18" U.O.N.
- J — 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.
- GFI — 20A 3PG 125V DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER TYPE, UP 18" U.O.N.
- IG — 20A 3PG 125V DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, UP 18" U.O.N.
- T — 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 RECEPTACLE, UP 18" U.O.N.
- 20A 3PG 125V SINGLE TWISTLOCK RECEPTACLE, NEMA L5-20R, UP 18" U.O.N.
- SPECIAL RECEPTACLE AS INDICATED ON PLANS
- CONTROLLED AND IDENTIFIED (SPLIT-WIRED) DUPLEX RECEPTACLE, WITH ONE HALF OF RECEPTACLE WIRED THROUGH LOCAL PLUG-LOAD CONTROLLER, UP 18" U.O.N.
- FLUSH IN FLOOR OUTLET BOX WITH QUANTITY OF 20A 3PG 125V DUPLEX RECEPTACLES AS INDICATED ON PLANS
- FLUSH CEILING MTD. DUPLEX OUTLET, 20A 3PG
- T — LINE VOLTAGE THERMOSTAT, PROVIDED & INSTALLED BY ELECTRICAL, CONNECTED COMPLETE BY MECHANICAL
- TERMINAL MOUNTING BACKBOARD, 3/4" PLYWOOD, DIMENSIONS AS NOTED ON PLANS, PAINT TO MATCH ADJACENT WALL SURFACE, MAINTAINING UL FIRE LABEL VISIBLE
- TELEPHONE OUTLET, UP 18" U.O.N.
- W — TELEPHONE OUTLET, UP 48" U.O.N.
- COMBINED TELEPHONE/DATA OUTLET, UP 18" U.O.N.
- COMBINED VOICE/DATA OUTLET, MOUNTED ABOVE COUNTER U.O.N.
- INTERCOM HANDSET, UP 48" U.O.N.
- WALL MOUNTED SIGNAL SYSTEM CLOCK, UP 96" U.O.N.
- TV — WALL MOUNTED VIDEO OUTLET, UP 18" U.O.N.
- S — FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER, UP 96" U.O.N.
- S — FLUSH WALL MOUNTED OUTDOOR WEATHERPROOF PUBLIC ADDRESS SPEAKER
- S — FLUSH CEILING MOUNTED INDOOR PUBLIC ADDRESS SPEAKER
- FLUSH WALL MOUNTED INDOOR PUBLIC ADDRESS SPEAKER & SIGNAL SYSTEM CLOCK, UP 96" U.O.N.
- 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 HASHMARKS INDICATES (2) #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, U.O.N.
- GROUND WIRE
- (#10) — 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
- T — TELEPHONE SYSTEM CONDUIT AND PULLWIRE; 3/4" U.O.N.
- C — COMPUTER/DATA SYSTEM CONDUIT AND PULLWIRE; 3/4" U.O.N.
- D — TELEPHONE/DATA SYSTEM CONDUIT AND PULLWIRE; 3/4" U.O.N.
- G — #4/0 COPPER GROUNDING ELECTRODE CONDUCTOR, U.O.N.
- AC-1 — MECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL PLANS
- 3 / E-6 — DETAIL DESIGNATION - SEE DETAIL 3, SHEET E-6
- 1 — NUMBERED SHEET NOTE

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.

- RECESSED 2'x2', 2'x4' OR 1'x4' LENSED FIXTURE
- RECESSED 2'x2', 2'x4' FIXTURE WITH SHIELD
- RECESSED 2'x2', 2'x4' FIXTURE WITH PARABOLIC LOUVERS
- RECESSED FIXTURE WITH PARABOLIC LOUVERS; ARROW INDICATES WALLWASH OPTICS
- EM OR / EM OR / E — INDICATES EMERGENCY FIXTURE. SEE ABBREVIATIONS FOR TYPE OF EMERGENCY SOURCE
- PENDANT MOUNTED FIXTURE
  - INDICATES AIRCRAFT CABLE SUPPORT POINT (VERIFY WITH MANUFACTURER)
  - INDICATES PENDANT ELECTRICAL FEED POINT (VERIFY WITH MANUFACTURER)
- SURFACE CEILING, WALL OR COVE MOUNTED FIXTURE
- UNDER CABINET FIXTURE
- SURFACE OR PENDANT MOUNTED STRIP FIXTURE
- SURFACE CEILING MOUNTED COMPACT FIXTURE
- PENDANT MOUNTED FIXTURE
- SURFACE MOUNTED LIGHTING TRACK WITH TRACK FIXTURES
- ADJUSTABLE RECESSED ACCENT LIGHT FIXTURE. ARROW INDICATES AIMING DIRECTION
- RECESSED DOWNLIGHT FIXTURE
- RECESSED WALLWASH FIXTURE
- RECESSED DOWNLIGHT WITH DECORATIVE TRIM
- WALL MOUNTED FIXTURE
- POLE MOUNTED AREA LIGHTING FIXTURE
- EXTERIOR BOLLARD FIXTURE
- POST TOP AREA LIGHTING FIXTURE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
- FLUSH IN-GROUND ACCENT UPLIGHT; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
- FLUSH IN-GROUND WALLWASH UPLIGHT; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION
- 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 LIGHTING FIXTURE WITH NUMBER OF ADJUSTABLE LOW VOLTAGE INCANDESCENT LAMP HEADS INDICATED
- WALL OR CEILING RECESSED EMERGENCY BATTERY EGRESS LIGHTING FIXTURE. ARROW INDICATES AIMING DIRECTION
- $a — LINE VOLTAGE SINGLE POLE TOGGLE SWITCH, LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.
- $2 — LINE VOLTAGE TWO POLE TOGGLE SWITCH, UP 48" U.O.N.
- $3 — LINE VOLTAGE THREE-WAY TOGGLE SWITCH, UP 48" U.O.N.
- $k — LINE VOLTAGE KEY OPERATED TOGGLE SWITCH INSTALLED AT EQMP. SHOWN
- $m — LINE VOLTAGE MOTOR RATED TOGGLE SWITCH
- $p — LINE VOLTAGE TOGGLE SWITCH WITH PILOT LIGHT, LIGHT IS ON WHEN CIRCUIT IS CLOSED, UP 48" U.O.N.
- Sab — LOW VOLTAGE MOMENTARY CONTACT SWITCH - SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N. SEE SPECS FOR TYPE OF SWITCH
- kSab — LOW VOLTAGE KEYED MOMENTARY CONTACT SWITCH - SEE LOW VOLTAGE RELAY SCHEDULE, LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N. SEE SPECS FOR TYPE OF SWITCH
- aOSb — WALL MOUNTED SWITCH TYPE INFRARED OCCUPANCY SENSOR; UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY LETTERS ADJACENT. SET TO FIXED 30 MINUTE TIME DELAY AND MAX SENSITIVITY
- aDSb — WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR; UP 48" U.O.N.; SINGLE OR DUAL AS NOTED BY LETTERS ADJACENT. SET TO FIXED 30 MINUTE TIME DELAY AND MAX SENSITIVITY
- OSD — WALL MOUNTED DIGITAL DUAL TECHNOLOGY DIMMING OCCUPANCY SENSOR SWITCH; UP 48" U.O.N.
- Sa — WALL MOUNTED DIGITAL SWITCH, UP 48" U.O.N.; LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED; SEE DETAILS FOR TYPE
- Da — WALL MOUNTED DIGITAL DIMMER SWITCH, UP 48" U.O.N.; LOWER CASE LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED; SEE DETAILS FOR TYPE
- CEILING MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR; SEE DETAILS FOR TYPE
- WALL MOUNTED DUAL TECHNOLOGY DIGITAL OCCUPANCY SENSOR; SEE DETAILS FOR TYPE
- CEILING MOUNTED LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR;
- P — SINGLE ZONE SWITCHING OR DIMMING CLOSED LOOP DIGITAL DAYLIGHTING SENSOR; SEE DETAILS FOR TYPE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
- P — SINGLE OR MULTI-ZONE SWITCHING OR DIMMING OPEN LOOP DIGITAL DAYLIGHTING SENSOR; SEE DETAILS FOR TYPE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN
- P — DAYLIGHT CONTROL PHOTOCELL - BRACKET MOUNTED; WATTSTOPPER OR EQUAL #LS-290C
- RC1 RC2 RC3 — ROOM CONTROLLER; NUMBER INDICATES MAXIMUM ZONES IN CONTROLLER; SEE DETAILS FOR TYPE
- PC — PLUG LOAD ROOM CONTROLLER; SEE DETAILS FOR TYPE
- NB — NETWORK BRIDGE; SEE DETAILS FOR TYPE AND CABLING
- EC — EMERGENCY LIGHTING CONTROL MODULE
- P — OCCUPANCY SENSOR POWER PACK MOUNTED IN CONCEALED ACCESSIBLE LOCATION
- R — REMOTE LIGHTING SCENE CONTROL STATION
- INFRARED PARTITION SENSOR - TRANSMITTER AND RECEIVER
- MAIN SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER
- FLUSH MOUNTED PANELBOARD, 6'-6" TO TOP
- SURFACE MOUNTED PANELBOARD, 6'-6" TO TOP

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 AS 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 PARITY 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 FOR EXACT LOCATION & CONNECTION REQUIREMENTS OF ALL LIGHTING FIXTURES AND ALL OUTLET, SWITCH, AND ELECTRICAL RELATED DEVICE MOUNTING HEIGHTS AND LOCATIONS. COORDINATE LOCATIONS OF ALL LIGHTING FIXTURES 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 OF ALL MECHANICAL EQUIPMENT. VERIFY EXACT LOCATION AND 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, HEIGHT, AND LOCATION OF ALL OWNER SUPPLIED EQUIPMENT OR 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 FIXTURES. ALSO VERIFY THAT ALL FEATURES CALLED FOR IN FIXTURE DESCRIPTIONS ON THE FIXTURE SCHEDULE ARE INCLUDED WITH CATALOG NUMBERS LISTED ON THE FIXTURE SCHEDULE 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 CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE SPECIFICATIONS.
13. DRAWINGS INDICATE THE LOCATION OF DEVICES, FIXTURES AND EQUIPMENT AND THE CIRCUIT NUMBER AND PANEL DESIGNATION WHICH SUPPLIES 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 UNDER THIS CONTRACT.
15. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
16. ALL EXTERIOR CONDUIT ABOVE GRADE INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE RIGID GALVANIZED STEEL. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT. PAINT ALL SURFACE MOUNTED RACEWAYS AND PULLBOXES TO MATCH SURROUNDING CONDITIONS.
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 PADS, CONDUITS, PULLBOXES AND CLEARANCES MEET THE UTILITY COMPANIES' 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 1006 AND 1011 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 LIGHT FIXTURES WITH MECHANICAL DIVISION PRIOR TO INSTALLATION OF HVAC DUCTS AND SPRINKLER HEADS. ENSURE AFTER INSTALLATION OF FIXTURES THAT THERE IS NO CONTACT BETWEEN DUCTS AND FIXTURES TO AVOID VIBRATION IN FIXTURES.
26. USE FLEXIBLE CONDUIT FOR ALL MOTOR, TRANSFORMER, RECESSED FIXTURE 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 FOUR (4) 3/4" CONDUITS FROM THE PANEL 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 LOCATION AND ROUTING WITH 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 BREAKERS FOR MULTI-WIRE BRANCH CIRCUITS, WITH COMMON NEUTRAL, PER NEC REQUIREMENTS.

LIST OF DRAWINGS

E-0.1	SYMBOLS LIST, GENERAL NOTES & LIST OF DRAWINGS	E-7.1	DETAILS
E-0.2	LUMINAIRE SCHEDULE	E-7.2	DETAILS
E-0.3	TITLE 24 DOCUMENTS	FE-0.1	FIRE ALARM EQUIPMENT LIST & GENERAL NOTES
E-0.4	TITLE 24 DOCUMENTS	FE-1.1	SITE PLAN - FIRE ALARM
E-0.5	TITLE 24 DOCUMENTS	FE-3.1	FLOOR PLAN - FIRE ALARM
E-1.0	SITE PLAN - DEMO	FE-5.1	RISER DIAGRAM - FIRE ALARM
E-1.1	SITE PLAN - ELECTRICAL	FE-6.1	CALCULATIONS - FIRE ALARM
E-1.2	SITE PLAN - LIGHTING		
E-2.1	FLOOR PLAN - LIGHTING		
E-3.1	FLOOR PLAN - POWER AND DATA		
E-3.2	FLOOR PLAN - CLOCK, SPEAKER & SECURITY		
E-3.3

LUMINAIRE SCHEDULE

LC3	DESCRIPTION:	POST TOP MOUNTED AREA LIGHT WITH DIE CAST ALUMINUM CONSTRUCTION, 40 LED OPTICAL PACKAGE WITH TYPE III OPTICAL DISTRIBUTION USING PATENTED NANO-OPTIC TECHNOLOGY. 525MA OPERATING CURRENT WITH 4000K LED'S. MIN. 70 CRI WITH > 0.9 POWER FACTOR AND < 20% THD. AND 7074 MIN. LUMEN OUTPUT. FOUR POST SPIDER MOUNT TO 5" DIAMETER, 9'-6" TALL STRAIGHT STEEL POLE MOUNTED ON 30" RAISED CONCRETE ANCHOR BASE. STANDARD PAINTED FINISH TO BE DETERMINED BY THE ARCHITECT.
	MANUFACTURER:	CREE #ARE-EDR-3M-R5-04-E-UL-FINISH-40K / POLE #PS5R9.5C-1-FINISH
	POWER SUPPLY:	INTEGRAL ELECTRONIC POWER SUPPLY
	LIGHT SOURCE:	(40) INTEGRAL 4000K LED'S
	WATTS / VOLTAGE:	70W / 120-277
LC3B	DESCRIPTION:	SIMILAR TO TYPE LC3 EXCEPT WITH INTEGRAL BACKLIGHT SHIELD.
	MANUFACTURER:	CREE #ARE-EDR-3MB-R5-04-E-UL-FINISH-40K / POLE #PS5R9.5C-1-FINISH
	POWER SUPPLY:	INTEGRAL ELECTRONIC POWER SUPPLY
	LIGHT SOURCE:	(40) INTEGRAL 4000K LED'S
	WATTS / VOLTAGE:	70W / 120-277
LC4B	DESCRIPTION:	SIMILAR TO TYPE LC3 EXCEPT WITH TYPE IV OPTICAL DISTRIBUTION WITH INTEGRAL BACKLIGHT SHIELD.
	MANUFACTURER:	CREE #ARE-EDR-4MB-R5-04-E-UL-FINISH-40K / POLE #PS5R9.5C-1-FINISH
	POWER SUPPLY:	INTEGRAL ELECTRONIC POWER SUPPLY
	LIGHT SOURCE:	(40) INTEGRAL 4000K LED'S
	WATTS / VOLTAGE:	70W / 120-277

LUMINAIRE SCHEDULE

AA1	DESCRIPTION:	LED LINEAR SUSPENDED INDIRECT/DIRECT. 20 GAUGE DIE-FORMED STEEL HOUSING WITH FLAT DIE-FORMED STEEL FLAT END CAPS. 73% TRANSMISSIVE DIFFUSE CENTER OPTIC. RECTILINEAR PROFILE 7 5/8" W x 1 7/8" H x 20' LENGTH. 3 LIGHT ENGINES WITH FROSTED TOP OPTICS. FULLY ADJUSTABLE CABLE MOUNTING. STANDARD WHITE POWDER COAT PAINTED FINISH.
	MANUFACTURER:	FINELITE: S16-LED-ID-DCO-20'(8',4',8')-3E-H-H-8-35-FTO-120V-SC-FA-FE-CEILING TYPE
	POWER SUPPLY:	0-10V DIMMING (10%-100%)
	LIGHT SOURCE:	LED, 3500K, 80 CRI, 1294 LUMENS PER FOOT
	WATTS / VOLTAGE:	10.9 WATTS PER FOOT, 120V
AB1	DESCRIPTION:	LED LINEAR CANTILEVER ARE MOUNTED WALL WASH. EXTRUDED ALUMINUM HOUSING WITH FLAT DIE-CAST ALUMINUM END CAPS. 0.08" THICK UV-STABILIZED, IMPACT RESISTANT, FROSTED ACRYLIC LENS. OPEN DISTRIBUTION (KICKER REFLECTOR REMOVED). 2 1/4" W x 4" HEIGHT x 20' LENGTH WITH CANTILEVER ARM, 2" APERTURE. STANDARD WHITE POWDER COAT FINISH. PROVIDE 12" CANTILEVERED ARM MOUNTING.
	MANUFACTURER:	FINELITE: HP-2 WW-SM-FO-20'(5X4')-B-8-35-120V-SC-12" CANTILEVER ARM
	POWER SUPPLY:	0-10V DIMMING (10%-100%)
	LIGHT SOURCE:	LED, 3500K, 80 CRI, 193 LUMENS PER FOOT
	WATTS / VOLTAGE:	2.5 WATTS PER FOOT, 120V
AC1	DESCRIPTION:	LED STRIP LIGHT. HEAVY GAUGE COLD ROLLED STEEL HOUSING WITH POLYCARBONATE INJECTION MOLDED END CAPS. CONTOURED FROSTED ACRYLIC LENS. 2 1/2" W x 2 3/8" H x LENGTHS PER PLAN. STANDARD BAKED WHITE ACRYLIC MATTE HIGH REFLECTANCE PAINT FINISH.
	MANUFACTURER:	PHILIPS DAY-BRITE: LF-4-FR-31-40-U-DZT
	POWER SUPPLY:	0-10V DIMMING
	LIGHT SOURCE:	LED, 4000K, 80 CRI, 3129 LUMENS
	WATTS / VOLTAGE:	28.7 W, 120-277
AC2	DESCRIPTION:	SAME AS 'AC1', BUT 8' LONG
	MANUFACTURER:	PHILIPS DAY-BRITE: LF-8-FR-31-40-U-DZT
	POWER SUPPLY:	0-10V DIMMING
	LIGHT SOURCE:	LED, 4000K, 80 CRI, 6258 LUMENS
	WATTS / VOLTAGE:	57.4 W (APROX), 120-277
AD1	DESCRIPTION:	LED SURFACE MOUNTED DOWNLIGHT. ONE-PIECE INJECTION MOLDED PLASTIC FLANGE WITH HIGH TRANSMITTANCE LENSE. 5" DIAMETER x 5/8" HIGH. FINISH TO BE SELECTED BY ARCHITECT.
	MANUFACTURER:	PHILIPS LIGHTOLIER: S5R-8-35K-7-FINISH-Z10U
	POWER SUPPLY:	0-10V DIMMING
	LIGHT SOURCE:	LED, 3500K, 80 CRI, 650 LUMENS
	WATTS / VOLTAGE:	10.1 WATTS @ 120V, 12-277
AE1	DESCRIPTION:	LED WALL MOUNTED LINEAR DIRECT. EXTRUDED ALUMINUM HOUSING WITH DIE-CAST END CAPS. 3" HIGH x 3 7/8" EXTENSION x 4' LENGTH. FINISH TO BE SELECTED BY ARCHITECT.
	MANUFACTURER:	LITECONTROL: 67-W-D-04-DM-FINISH-35K-D055-D10-1-UNV
	POWER SUPPLY:	0-10V DIMMING (10%-100%)
	LIGHT SOURCE:	LED, 3500K, 550 LUMENS PER FOOT
	WATTS / VOLTAGE:	4.5 WATTS PER FOOT, 120-277
AE1E	DESCRIPTION:	SIMILAR TO TYPE AE1 EXCEPT WITH EMERGENCY BATTERY PACK.
	MANUFACTURER:	LITECONTROL: 67-W-D-04-DM-FINISH-35K-D055-D10-1-UNV-1EF
	POWER SUPPLY:	0-10V DIMMING (10%-100%) + EMERGENCY BATTERY PACK
	LIGHT SOURCE:	LED, 3500K, 550 LUMENS PER FOOT
	WATTS / VOLTAGE:	4.5 WATTS PER FOOT, 120-277
AE2	DESCRIPTION:	SIMILAR TO TYPE 'AE1', EXCEPT 8' LONG.
	MANUFACTURER:	LITECONTROL: 67-W-D-08-DM-FINISH-35K-D055-D10-1-UNV
	POWER SUPPLY:	0-10V DIMMING (10%-100%)
	LIGHT SOURCE:	LED, 3500K, 550 LUMENS PER FOOT
	WATTS / VOLTAGE:	4.5 WATTS PER FOOT, 120-277
AF1E	DESCRIPTION:	LED WET LOCATION LINEAR SURFACE MOUNT. 20 GAUGE ZINC COATED STEEL HOUSING. 0.140 50% DR EXTRUDED PRISMATIC ACRYLIC LENS.
	MANUFACTURER:	PARAMOUNT LIGHTING: C2-1-L-4-3-EMD2
	POWER SUPPLY:	CONSTANT CURRENT 24V DRIVER, 100mA + 12W EMERGENCY BATTERY PACK
	LIGHT SOURCE:	LED, 4000K, 1200 LUMEN PER FOOT
	WATTS / VOLTAGE:	10 WATTS PER FOOT, 120-277
AF1	DESCRIPTION:	SIMILAR TO TYPE AF1E EXCEPT WITHOUT EMERGENCY BATTERY PACK.
	MANUFACTURER:	PARAMOUNT LIGHTING: C2-1-L-4-3
	POWER SUPPLY:	CONSTANT CURRENT 24V DRIVER, 100mA
	LIGHT SOURCE:	LED, 4000K, 1200 LUMEN PER FOOT
	WATTS / VOLTAGE:	10 WATTS PER FOOT, 120-277
LB3B	DESCRIPTION:	POST TOP MOUNTED AREA LIGHT WITH DIE CAST ALUMINUM CONSTRUCTION, 40 LED OPTICAL PACKAGE WITH TYPE III OPTICAL DISTRIBUTION USING PATENTED NANO-OPTIC TECHNOLOGY WITH INTEGRAL BACKLIGHT SHIELD. 525MA OPERATING CURRENT WITH 4000K LED'S. MIN. 70 CRI WITH > 0.9 POWER FACTOR AND < 20% THD. AND 7074 MIN. LUMEN OUTPUT. FOUR POST SPIDER MOUNT TO 5" DIAMETER, 12' TALL STRAIGHT STEEL POLE. STANDARD PAINTED FINISH TO BE DETERMINED BY THE ARCHITECT.
	MANUFACTURER:	CREE #ARE-EDR-3MB-R5-04-E-UL-FINISH-40K / POLE #PS5R12C-1-FINISH
	POWER SUPPLY:	INTEGRAL ELECTRONIC POWER SUPPLY
	LIGHT SOURCE:	(40) INTEGRAL 4000K LED'S
	WATTS / VOLTAGE:	70W / 120-277
LB5	DESCRIPTION:	SIMILAR TO TYPE LB2 EXCEPT WITH TYPE V OPTICAL DISTRIBUTION.
	MANUFACTURER:	CREE #ARE-EDR-5M-R5-04-E-UL-FINISH-40K / POLE #PS5R12C-1-FINISH
	POWER SUPPLY:	INTEGRAL ELECTRONIC POWER SUPPLY
	LIGHT SOURCE:	(40) INTEGRAL 4000K LED'S
	WATTS / VOLTAGE:	70W / 120-277

QUATTROCCHI KWOK ARCHITECTS
636 FIFTH ST.
SANTA ROSA, CA 95404
(707) 576-0829
(707) 576-0295 FAX

O'MAHONY & MYER
ELECTRICAL ENGINEERING and LIGHTING DESIGN
1340 REDWOOD HWY., SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 492-0400/FAX (415) 479-9662
www.ommconsulting.com

PAUL COLOMBANO No.14738 Exp. 6/19 REGISTERED PROFESSIONAL ENGINEER ELECTRICAL STATE OF CALIFORNIA

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street
South San Francisco
CA 94080-4423

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO. 01-116522
AC._____ FLS._____ SS._____
DATE._____

REVISIONS

NO.	DATE	
	OCTOBER 20, 2014	
1	2-15-18	ADDENDUM 1

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE: AS NOTED
PTN: 69070-97
DSA BACKCHECK
11/09/17

SHEET TITLE

LUMINAIRE SCHEDULE

SHEET NUMBER

E-0.2

ADD 01
01.11

PARKWAY HEIGHTS MS 2016 MODERNIZATION – 216108

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)

Project Name: Parkway Heights MS-Ph 2 Modernization | Date Prepared: 10/26/2017

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter 'E' if Exempted)							PAF Credit Calculation [2]				Field Inspector	
										Watts of Controlled Lighting	PAF	Control Credit (K x L)	✓ If Acceptance Test Required		
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	Fail
Per space	Occupancy Sensor	1	☐	☐	☑	☐	☐	☐	☐				✓	☐	☐
Rooms 101 thru 110	Automatic Daylighting	1	☐	☐	☐	☑	☐	☐	☐				✓	☐	☐
101, CLASSROOM	Daylight - Dimming/Off		☐	☐	☐	☐	☐	☑	☐	440	0.10	44	✓	☐	☐
101, CLASSROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	220	0.20	44	✓	☐	☐
102, CLASSROOM	Daylight - Dimming/Off		☐	☐	☐	☐	☐	☑	☐	440	0.10	44	✓	☐	☐
102, CLASSROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	220	0.20	44	✓	☐	☐
										Control Credit PAGE TOTAL (Sum of Column 13):			176		
										IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):			1,005		
													Enter Control Credit total into NRCC-LTI-01-E; Page 1.		

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)

Project Name: Parkway Heights MS-Ph 2 Modernization | Date Prepared: 10/26/2017

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts					Location	Field Inspector [3]	
01	02	03	04	05	06	07	08		
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC-Default Table	How wattage was determined: According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (=03 x 06)	Primary Function area in which these luminaires are installed	Pass	Fail
AA1	AA1 - LED 0-10v DIM	220.0	☑	☐	30	6,600	Classroom, Lecture, Training	☐	☐
AB1	AB1 - LED 0-10v DIM	60.0	☑	☐	10	600	Classroom, Lecture, Training	☐	☐
AC1	AC1 - LED 0-10v DIM	30.0	☑	☐	1	30	Corridor/Restroom/Support	☐	☐
AC2	AC2 - LED 0-10v DIM	60.0	☑	☐	2	120	Corridor/Restroom/Support	☐	☐
AD1	AD1 - LED 0-10v DIM	11.0	☑	☐	5	55	Corridor/Restroom/Support	☐	☐
AE1	AE1 - LED 0-10v DIM	20.0	☑	☐	4	80	Corridor/Restroom/Support	☐	☐
AE2	AE2 - LED 0-10v DIM	40.0	☑	☐	6	240	Corridor/Restroom/Support	☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
					INSTALLED WATTS PAGE TOTAL:	7,725	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)

Project Name: Parkway Heights MS-Ph 2 Modernization | Date Prepared: 10/26/2017

A. General Information

Climate Zone: 3	Conditioned Floor Area: 9,502				
	Unconditioned Floor Area: 0				
Building Type:	☑ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel		
☐ Schools	☐ Relocatable Public Schools	☑ Conditioned Spaces	☐ Unconditioned Spaces		
Phase of Construction:	☐ New Construction	☐ Addition	☑ Alteration		
Method of Compliance:	☐ Complete Building	☑ Area Category	☐ Tailored		
Project Address: 650 Sunset Ave					

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
☑	☐	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
☑	☐	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
☑	☐	NRCC-LTI-03-E	Indoor Lighting Power Allowance
☐	☑	NRCC-LTI-04-E	Tailored Method Worksheets
☐	☑	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
☐	☐	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)

Project Name: Parkway Heights MS-Ph 2 Modernization | Date Prepared: 10/26/2017

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter 'E' if Exempted)							PAF Credit Calculation [2]				Field Inspector	
										Watts of Controlled Lighting	PAF	Control Credit (K x L)	✓ If Acceptance Test Required		
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	Fail
103, CLASSROOM	Daylight - Dimming/Off		☐	☐	☐	☐	☐	☑	☐	440	0.10	44	✓	☐	☐
103, CLASSROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	220	0.20	44	✓	☐	☐
104, CLASSROOM	Daylight - Dimming/Off		☐	☐	☐	☐	☐	☑	☐	440	0.10	44	✓	☐	☐
104, CLASSROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	220	0.20	44	✓	☐	☐
105, CLASSROOM	Daylight - Dimming/Off		☐	☐	☐	☐	☐	☐	☐	440	0.10	44	✓	☐	☐
105, CLASSROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☐	☐	220	0.20	44	✓	☐	☐
										Control Credit PAGE TOTAL (Sum of Column 13):			264		
										IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):			1,005		
													Enter Control Credit total into NRCC-LTI-01-E; Page 1.		

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)

Project Name: Parkway Heights MS-Ph 2 Modernization | Date Prepared: 10/26/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Pieter Colenbrander		Documentation Author Signature: P. Colenbrander	
Company: O'Mahony & Myer		Signature Date: 10/26/2017	
Address: 4340 Redwood Hwy., Suite 245		CEA Certification Identification (if applicable):	
City/State/Zip: San Rafael, CA 94903		Phone:	

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Pieter Colenbrander		Responsible Designer Signature: P. Colenbrander	
Company: O'Mahony & Myer		Date Signed: 10/26/2017	
Address: 4340 Redwood Hwy., Suite 245		License: 14738	
City/State/Zip: San Rafael, CA 94903		Phone: (415) 492-0420	

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)

Project Name: Parkway Heights MS-Ph 2 Modernization | Date Prepared: 10/26/2017

C. Summary of Allowed Lighting Power
Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts		Indoor Lighting Power for Unconditioned Spaces		Watts
01	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	7,725		**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	0
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+					
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	1,005		Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0
04	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	6,720		Adjusted **Installed** Lighting Power (row 1 minus row 3)	=	0
	Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)				Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)		
05	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		10,801		**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		0

D. Declaration of Required Certificates of Installation
Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Compliance Document/Title	
☑	☐	NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
☐	☑	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
☐	☑	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
☐	☑	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
☑	☐	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
☐	☑	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)

Project Name: Parkway Heights MS-Ph 2 Modernization | Date Prepared: 10/26/2017

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter 'E' if Exempted)							PAF Credit Calculation [2]				Field Inspector	
										Watts of Controlled Lighting	PAF	Control Credit (K x L)	✓ If Acceptance Test Required		
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	Fail
106, CLASSROOM	Daylight - Dimming/Off		☐	☐	☐	☐	☐	☑	☐	440	0.10	44	✓	☐	☐
106, CLASSROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	220	0.20	44	✓	☐	☐
107, CLASSROOM	Daylight - Dimming/Off		☐	☐	☐	☐	☐	☑	☐	440	0.10	44	✓	☐	☐
107, CLASSROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	220	0.20	44	✓	☐	☐
108, CLASSROOM	Daylight - Dimming/Off		☐	☐	☐	☐	☐	☑	☐	440	0.10	44	✓	☐	☐
108, CLASSROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☐	☐	220	0.20	44	✓	☐	☐
										Control Credit PAGE TOTAL (Sum of Column 13):			264		
										IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):			1,005		
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2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)

Project Name: Parkway Heights MS-Ph 2 Modernization | Date Prepared: 10/26/2017

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
☑	☐	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
☐	☑	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
☐	☑	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
☐	☑	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
☑	☐	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
☐	☑	All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
☑	☐	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
☐	☑	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
☑	☐	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
☑	☐	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
☐	☑	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
☑	☐	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)

Project Name: Parkway Heights MS-Ph 2 Modernization | Date Prepared: 10/26/2017

E. Declaration of Required Certificates of Acceptance
Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Compliance Document/Title	
☑	☐	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
☑	☐	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
☐	☑	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector
☐	☑	NRCA-LTI-05-A – Must be submitted for institutional tuning power adjustment factor (PAF).	☐ Field Inspector

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☐ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

F. Indoor Lighting Schedule and Field Inspection Energy Checklist
☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

QUATTROCCHI KWOK ARCHITECTS
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SANTA ROSA, CA 95404
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(707) 576-0295 FAX

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www.omsonsulting.com

REGISTERED PROFESSIONAL ENGINEER PIETER COLENBRANDER No.14738 Exp. 6/17 ELECTRICAL STATE OF CALIFORNIA

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street
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FILE NO: 41-28
APPL NO: 01-116522
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DATE NOV 09 2017

REVISIONS
DSA PACK 3 OCTOBER 20, 2014

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE: AS NOTED
PTN: 69070-97
DSA BACKCHECK
11/09/17

SHEET TITLE
TITLE 24 DOCUMENTS

SHEET NUMBER
E-0.3

PARKWAY HEIGHTS MS 2016 MODERNIZATION – 216108

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION — NRCC-LTO-01-E

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 1 of 4)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared:

A. General Information

Project Address: 650 Sunset Ave South San Francisco, CA 94080	Total Illuminated Hardscape Area: 24,714
Phase of Construction: ☐ New Construction ☐ Addition ☑ Alteration	
Outdoor Lighting Zone (LZ) ☐ LZ-1 ☐ LZ-2 ☑ LZ-3 ☐ LZ-4	

I have confirmed with the AHJ which LZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

B. Lighting Compliance Documents (check box for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

☑	NRCC-LTO-01-E	Certificate of Compliance
☑	NRCC-LTO-02-E	Outdoor Lighting Controls Certificate of Compliance
☑	NRCC-LTO-03-E	Outdoor Lighting Power Allowance Certificate of Compliance
☐	NRCC-LTO-04-E	Outdoor Lighting Existing Conditions Certificate of Compliance

C. Summary of Allowed Outdoor Lighting Power

		Watts
01	**Sum Total ALLOWED** Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1 Alterations with NO increase of connected lighting load may instead use the allowed wattage from NRCC-LTO-04, page 2.	3,445
	Complies ONLY if **Installed** (Box 02) ≤ **Allowed** (Box 01)	
02	**Sum Total INSTALLED** Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3.	2,330

D. Declaration of Required Installation Certificates

Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☑ NRCI-LTO-01-E - Must be submitted for all buildings	☐ Field Inspector
☑ NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector

E. Declaration of Required Certificates of Acceptance

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify compliance documents are completed and signed.)

☑ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.	☐ Field Inspector

F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirements in §140.7

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION — NRCC-LTI-02-E

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Pieter Colenbrander	Documentation Author Signature:	P. Colenbrander
Company:	O'Mahony & Myer	Signature Date:	10/26/2017
Address:	4340 Redwood Hwy., Suite 245	CEA Certification Identification (if applicable):	
City/State/Zip:	San Rafael, CA 94903	Phone:	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Pieter Colenbrander	Responsible Designer Signature:	P. Colenbrander
Company:	O'Mahony & Myer	Date Signed:	10/26/2017
Address:	4340 Redwood Hwy., Suite 245	License:	14738
City/State/Zip:	San Rafael, CA 94903	Phone:	(415) 492-0420

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION — NRCC-LTI-02-E

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter 'E' if Exempted)							PAF Credit Calculation [2]				
														Field Inspector
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)	Watts of Controlled Lighting	PAF	Control Credit (Col. 11 x Col. 12)	✓ if Acceptance Test Required	Pass / Fail
109, CLASSROOM	Daylight - Dimming/Off		☐	☐	☐	☐	☐	☑	☐	440	0.10	44	✔	☐ / ☐
109, CLASSROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	220	0.20	44	✔	☐ / ☐
110, CLASSROOM	Daylight - Dimming/Off		☐	☐	☐	☐	☐	☑	☐	440	0.10	44	✔	☐ / ☐
110, CLASSROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	220	0.20	44	✔	☐ / ☐
111, BOYS RESTROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	22	0.20	4	✔	☐ / ☐
111, BOYS RESTROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	60	0.20	12	✔	☐ / ☐
										Control Credit PAGE TOTAL (Sum of Column 13):		192		
										IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):		1,005		
												Enter Control Credit total into NRCC-LTI-01-E; Page 1.		

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION — NRCC-LTI-03-E

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

☐ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER ft²	X	AREA (ft²)	=	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C					
CLASSROOM	Classroom, Lecture, Training	1.20		8,500		10,200
CRS	Corridor/Restroom/Support	0.60		1,002		601
				TOTALS		9,502
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						10,801
						WATTS

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION — NRCC-LTI-02-E

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter 'E' if Exempted)							PAF Credit Calculation [2]				
														Field Inspector
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)	Watts of Controlled Lighting	PAF	Control Credit (Col. 11 x Col. 12)	✓ if Acceptance Test Required	Pass / Fail
111, BOYS RESTROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	80	0.20	16	✔	☐ / ☐
112, GIRLS RESTROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	22	0.20	4	✔	☐ / ☐
112, GIRLS RESTROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	20	0.20	4	✔	☐ / ☐
112, GIRLS RESTROOM	Occ Sensor - <= 500 sqft		☐	☐	☐	☐	☐	☑	☐	160	0.20	32	✔	☐ / ☐
STORAGE LARGE	Occ Sensor - <= 250 sqft		☐	☐	☐	☐	☐	☑	☐	120	0.30	36	✔	☐ / ☐
STORAGE SMALL	Occ Sensor - <= 125 sqft		☐	☐	☐	☐	☐	☑	☐	30	0.40	12	✔	☐ / ☐
										Control Credit PAGE TOTAL (Sum of Column 13):		104		
										IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):		1,005		
												Enter Control Credit total into NRCC-LTI-01-E; Page 1.		

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 02/16) — CALIFORNIA ENERGY COMMISSION — NRCC-LTO-01-E

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts				Location	Cutoff	Field Inspector	
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default from I§48	How wattage was determined: According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (3 x 5)	Primary Function area in which the luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
AF1E	AF1E - LED 0-10v DIM	40.0	☑	☐	29	1,160	Non Sales Canopy	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
LB5	LB5 - TYPE V LED AREA LIGHT	70.0	☑	☐	3	210	Automotive Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
LB3B	LB3B - TYPE III LED AREA LIGHT	70.0	☑	☐	2	140	Automotive Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
					INSTALLED WATTS PAGE TOTAL:	1,510	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E, page 1.		2,330	

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION — NRCC-LTI-03-E

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Pieter Colenbrander	Documentation Author Signature:	P. Colenbrander
Company:	O'Mahony & Myer	Signature Date:	10/26/2017
Address:	4340 Redwood Hwy., Suite 245	CEA Certification Identification (if applicable):	
City/State/Zip:	San Rafael, CA 94903	Phone:	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Pieter Colenbrander	Responsible Designer Signature:	P. Colenbrander
Company:	O'Mahony & Myer	Date Signed:	10/26/2017
Address:	4340 Redwood Hwy., Suite 245	License:	14738
City/State/Zip:	San Rafael, CA 94903	Phone:	(415) 492-0420

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION — NRCC-LTI-02-E

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter 'E' if Exempted)							PAF Credit Calculation [2]				
														Field Inspector
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)	Watts of Controlled Lighting	PAF	Control Credit (Col. 11 x Col. 12)	✓ if Acceptance Test Required	Pass / Fail
CLOSET	Occ Sensor - <= 125 sqft		☐	☐	☐	☐	☐	☑	☐	11	0.40	4	✔	☐ / ☐
			☐	☐	☐	☐	☐	☐	☐					☐ / ☐
			☐	☐	☐	☐	☐	☐	☐					☐ / ☐
			☐	☐	☐	☐	☐	☐	☐					☐ / ☐
			☐	☐	☐	☐	☐	☐	☐					☐ / ☐
			☐	☐	☐	☐	☐	☐	☐					☐ / ☐
										Control Credit PAGE TOTAL (Sum of Column 13):		4		
										IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):		1,005		
												Enter Control Credit total into NRCC-LTI-01-E; Page 1.		

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

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(415) 492-0420/FAX (415) 479-9662
www.emmconsulting.com

REGISTERED PROFESSIONAL ENGINEER — No.14738 Exp. 6/17 — ELECTRICAL — STATE OF CALIFORNIA

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street
South San Francisco
CA 94080-4423

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116522
AC___ FLS___ SS___
DATE: NOV 09 2017

REVISIONS
1 ADDENDUM 2 — OCTOBER 20, 2014

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE: AS NOTED
PTN: 69070-97

DSA BACKCHECK
11/09/17

SHEET TITLE

TITLE 24 DOCUMENTS

SHEET NUMBER
E-0.4

PARKWAY HEIGHTS MS 2016 MODERNIZATION – 216108

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 3 of 4)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) – Table 140.7-B

☐ Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.
☐ If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS			DESIGN WATTS					
Name of area for which ornamental allowance is claimed	Square Feet of Hardscape	Wattage Allowance per Square Foot	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
					Sum total allowance for ornamental lighting on the site:				0

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B

☐ Allowances for Building Facades; Outdoor Sales Lots; Vehicle Service Station Hardscape; Vehicle Service Station Canopies; Sales Canopies; Non-sales Canopies; Tunnels; Guard Stations; Student Pick-up/Drop-off zone: Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardscape.
☐ If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS			DESIGN WATTS					
Name of Location for Which Allowance is Claimed	Illuminated Area of Application	Wattage Allowance per square Foot	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
COVERED NORTH	1,262	0.408	515	AF1E	AF1E - LED 0-10v DIM	6	40.0	240	240
COVERED NORTH	184	0.408	75	AF1E	AF1E - LED 0-10v DIM	3	40.0	120	75
COVERED SOUTH	673	0.408	275	AF1E	AF1E - LED 0-10v DIM	6	40.0	240	240
COVERED SOUTH	850	0.408	347	AF1E	AF1E - LED 0-10v DIM	4	40.0	160	160
					Sum total allowance for specific area on the site:				1,515

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 1 of 3)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

A. Mandatory Outdoor Lighting Control Declaration Statements

Check all that apply:

- ☐ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
- ☑ Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
- ☑ All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.0(d).
- ☐ Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5.
- ☐ All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- ☑ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b).
- ☐ All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.2(c)1.
- ☑ All installed outdoor lighting shall be independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2.
- ☐ All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3.
- ☐ For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4.
- ☐ For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5.
- ☑ Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting, the outdoor lighting controls shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 02/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts				Location	Cutoff	Field Inspector	
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (3 x 5)	Primary Function area in which the luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
LC3	LC3 - TYPE III LED AREA LIGHT	70.0	☑	☐	2	140	Automotive Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
LC3B	LC3B - TYPE III LED AREA LIGHT	70.0	☑	☐	2	140	Automotive Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
LC4B	LC4B - TYPE IV LED AREA LIGHT	70.0	☑	☐	2	140	Automotive Hardscape	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
				INSTALLED WATTS PAGE TOTAL:		420	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E, page 1.		2,330	

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 3 of 4)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) – Table 140.7-B

☐ Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.
☐ If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS			DESIGN WATTS					
Name of area for which ornamental allowance is claimed	Square Feet of Hardscape	Wattage Allowance per Square Foot	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
					Sum total allowance for ornamental lighting on the site:				0

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B

☐ Allowances for Building Facades; Outdoor Sales Lots; Vehicle Service Station Hardscape; Vehicle Service Station Canopies; Sales Canopies; Non-sales Canopies; Tunnels; Guard Stations; Student Pick-up/Drop-off zone: Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardscape.
☐ If more than one luminaire type is used per location, use multiple rows for that location

01	02	03	04	05	06	07	08	09	10
	ALLOTTED WATTS			DESIGN WATTS					
Name of Location for Which Allowance is Claimed	Illuminated Area of Application	Wattage Allowance per square Foot	Allotted Watts (02 x 03)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
WEST BREEZEWA	1,111	0.408	453	AF1E	AF1E - LED 0-10v DIM	4	40.0	160	320
				AF1	AF1E - LED 0-10v DIM	4	40.0	160	
EAST BREEZEWA\	1,611	0.408	657	AF1E	AF1E - LED 0-10v DIM	6	40.0	240	480
				AF1	AF1E - LED 0-10v DIM	6	40.0	240	
					Sum total allowance for specific area on the site:				1,515

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — January 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-02-E (Revised 08/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-02-E
Outdoor Lighting Controls	(Page 3 of 3)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Pieter Colenbrander	Documentation Author Signature:	P. Colenbrander
Company:	O'Mahony & Myer	Signature Date:	10/26/2017
Address:	4340 Redwood Hwy., Suite 245	CEA Certification Identification (If applicable):	
City/State/Zip:	San Rafael, CA 94903	Phone:	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Pieter Colenbrander	Responsible Designer Signature:	P. Colenbrander
Company:	O'Mahony & Myer	Date Signed:	10/26/2017
Address:	4340 Redwood Hwy., Suite 245	License:	14738
City/State/Zip:	San Rafael, CA 94903	Phone:	(415) 492-0420

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — August 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 02/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 3 of 4)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts				Location	Cutoff	Field Inspector	
01	02	03	04		05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	How wattage was determined: CEC Default from NA8	How wattage was determined: According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (3 x 5)	Primary Function area in which the luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Fail
AF1	AF1E - LED 0-10v DIM	40.0	☑	☐	10	400	Non Sales Canopy	UH: n/a UL: n/a FVH: n/a BVH: n/a FH: n/a BH: n/a	☐	☐
			☐	☐				UH: UL: FVH: BVH: FH: BH:	☐	☐
			☐	☐				UH: UL: FVH: BVH: FH: BH:	☐	☐
				INSTALLED WATTS PAGE TOTAL:		400	Enter sum total of all pages (**Sum Total INSTALLED** Outdoor lighting wattage) into NRCC-LTO-01-E, page 1.		2,330	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 4 of 4)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

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1. I certify that this Certificate of Compliance documentation is accurate and complete.

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City/State/Zip:	San Rafael, CA 94903	Phone:	

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4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

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Company:	O'Mahony & Myer	Date Signed:	10/26/2017
Address:	4340 Redwood Hwy., Suite 245	License:	14738
City/State/Zip:	San Rafael, CA 94903	Phone:	(415) 492-0420

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — January 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-03-E
Outdoor Lighting Power Allowances	(Page 1 of 4)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY

1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCC-LTO-03-E)							1.	1,930
2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E.								
PER APPLICATION from Section C-1		PER UNIT LENGTH (SALES FRONTAGE) from Section C-2		PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) from Section C-3		PER SPECIFIC AREA from Section C-4.		
0	+	0	+	0	+	1,515	= 2.	1,515
3. **Sum Total ALLOWED** Outdoor Lighting Wattage (add rows 1 and 2)							3.	3,445

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

Area Wattage Allowance (AWA)				Linear Wattage Allowance (LWA)			Initial Wattage Allowance (IWA)	Total General Hardscape Lighting Allowance
01	02	03	04	05	06	07	08	09
Name of Area	Illuminated Hardscape Area	AWA Per Square Foot	AWA (B02 x B03)	Perimeter Length of General Hardscape	LPA per Linear Foot	LWA (B05 x B06)	IWA (Watts)	B04 + B07 + B08
Automotive Hardscape	24,714	0.040	989	1,204	0.350	421	520	1,930
							TOTAL	1,930

STATE OF CALIFORNIA
OUTDOOR LIGHTING
CEC-NRCC-LTO-01-E (Revised 02/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-01-E
Outdoor Lighting	(Page 4 of 4)
Project Name: Parkway Heights MS-Ph 2 Modernization	Date Prepared: 10/26/2017

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Company:	O'Mahony & Myer	Date Signed:	10/26/2017
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance — April 2016

QUATTROCCHI KWOK ARCHITECTS
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ELECTRICAL ENGINEERING and LIGHTING DESIGN
4340 REDWOOD HWY., SUITE 245
SAN RAFAEL, CALIFORNIA 94903
(415) 492-0420/FAX (415) 479-9662
www.omahonyandmyer.com

REGISTERED PROFESSIONAL ENGINEER — No.14738 Exp. 6/17 — ELECTRICAL — STATE OF CALIFORNIA

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street
South San Francisco
CA 94080-4423

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116522
AC___ FLS___ SS___
DATE NOV 09 2017

REVISIONS		
		OCTOBER 20, 2014

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE: AS NOTED
PTN: 69070-97

DSA BACKCHECK
11/09/17

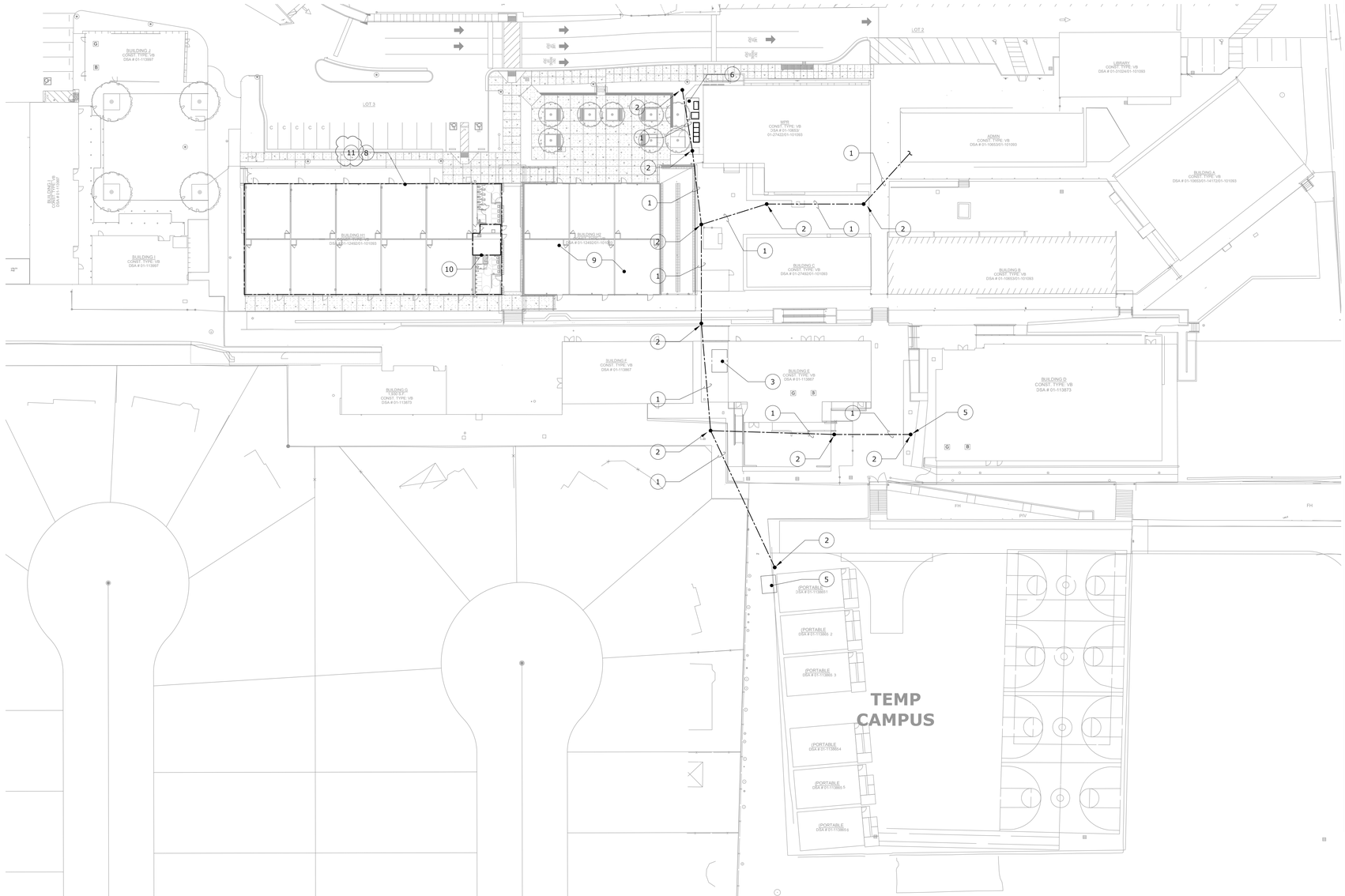
SHEET TITLE

TITLE 24 DOCUMENTS

SHEET NUMBER

E-0.5

PARKWAY HEIGHTS MS 2018 MODERNIZATION - 216108



SITE PLAN - DEMO
SCALE: 1" = 30'-0"

1 / E-1.0

REF. NORTH

NUMBERED SHEET NOTES

1. DISCONNECT AND REMOVE (E) OVERHEAD POWER AND SIGNAL CABLING. SUSTAIN ALL FEEDS TO PORTABLES UNTIL NOTIFIED BY DISTRICT.
2. REMOVE (E) OVERHEAD POWER AND SIGNAL POLE. PROVIDE ALL PATCH AND REPAIR WORK AT HARDSCAPE TO MATCH (E) ADJACENT UNDISTURBED HARDSCAPE FINISHES. COORDINATE EXACT REQUIREMENTS WITH ARCHITECT.
3. DISCONNECT AND REMOVE (E) TEMPORARY POWER DISCONNECTS AND TRANSFORMER TO BUILDINGS 'F' AND 'L' AT THIS LOCATION. RETURN EQUIPMENT TO DISTRICT FACILITIES DEPARTMENT. COORDINATE EXACT REQUIREMENTS WITH DISTRICT.
4. DISCONNECT AND REMOVE (E) TEMPORARY POWER DISCONNECT, TRANSFORMER AND DISTRIBUTION TO TEMPORARY CAMPUS PORTABLES. RETURN EQUIPMENT TO DISTRICT FACILITIES DEPARTMENT. COORDINATE EXACT REQUIREMENTS WITH DISTRICT.
5. DISCONNECT AND REMOVE (E) TEMPORARY POWER DISCONNECTS TO BUILDING 'D'. RETURN EQUIPMENT TO DISTRICT FACILITIES. COORDINATE EXACT REQUIREMENTS WITH DISTRICT.
6. DISCONNECT AND REMOVE (E) TEMPORARY POWER TRANSFORMER TO TEMPORARY CAMPUS POWER SYSTEMS. RETURN EQUIPMENT TO DISTRICT FACILITIES DEPARTMENT. COORDINATE EXACT REQUIREMENTS WITH DISTRICT.
7. DISCONNECT AND REMOVE (E) RACEWAY ALONG OVERHANG TO BEYOND SCOPE OF WORK.
8. DEMOLISH (E) POWER, SIGNAL AND LIGHTING SYSTEMS RELATED ONLY TO BUILDING H1 WITHIN BUILDING, OVERHANGS AND ROOF IN AREAS OF MODERNIZATION U.O.N. ALL SYSTEMS SHALL BE REMOVED BACK TO (E) SOURCES TO REMAIN, U.O.N.
9. ALL SYSTEMS TO BUILDING H2 SHALL BE PROTECTED IN PLACE. REFER TO GENERAL DEMOLITION NOTES.
10. (E) POWER DISTRIBUTION, SECURITY PANEL AND SURFACE CONDUITS TO BE PROTECTED IN PLACE AND RE-USED. ALL SYSTEMS CABLING WITHIN BUILDING H1 CONNECTED TO THESE SOURCES SHALL BE REMOVED COMPLETE.
11. SEE E3.1 AND E3.2 FOR EXISTING POWER RECEPTACLES AND CLOCK SPEAKER RACEWAY THAT SHALL REMAIN AND BE REUSED.

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL LINES, LEVELS, DIMENSIONS AND EXISTING CONDITIONS. THE INFORMATION ON THE DRAWINGS REGARDING EXISTING ELECTRICAL EQUIPMENT AND BRANCH CIRCUITS IS THE RESULT OF FIELD SURVEY AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. IT IS INTENDED, HOWEVER, AS A GUIDE FOR USE IN VERIFICATION ONLY.
2. ANY EXISTING ELECTRICAL EQUIPMENT IN THE AREA OF NEW CONSTRUCTION NOT SHOWN ON THE EXISTING PLANS SHALL BE DOCUMENTED AND SUBMITTED TO THE ENGINEER FOR DETERMINATION OF ACTION REQUIRED.
3. WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS TO BE REMOVED, ALL CONDUIT AND WIRE BACK TO THE PANEL SHALL BE ENTIRELY REMOVED AND THE CIRCUIT IN PANEL SHALL BE MARKED "SPARE". THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT, AND WIRE AS WELL.
4. WHEREVER THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT IS CALLED FOR AND ALL EQUIPMENT ON A PARTICULAR BRANCH CIRCUIT IS NOT TO BE REMOVED, THE CIRCUIT SHALL BE MAINTAINED CONTINUOUS TO THE EXISTING EQUIPMENT IN USE WITH MINIMUM INTERRUPTIONS OF POWER. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT, AND WIRE AS WELL.
5. WHENEVER THE REMOVAL OF EXISTING CONSTRUCTION REVEALS ELECTRICAL WORK THAT IS TO REMAIN, BUT IS IN CONFLICT WITH NEW CONSTRUCTION, RELOCATE THE EXISTING ELECTRICAL WORK AS NECESSARY TO AVOID ANY CONFLICT. RELOCATION WORK SHALL BE DONE TO MINIMIZE ANY INTERRUPTIONS OF POWER.
6. CARE SHALL BE TAKEN IN ORDER TO IDENTIFY AND PROTECT ALL EXISTING ELECTRICAL WORK THAT IS TO REMAIN.
7. ENSURE RECONNECTION OF EXISTING DEVICES WHOSE CIRCUITS HAVE BEEN INTERRUPTED BY DEMOLITION BY PROVIDING NEW CONNECTION TO ANOTHER EXISTING TO REMAIN DEVICE OR PANEL.
8. ALL EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS FOR NEW WORK ARE THOSE WHICH ARE TO BE REUSED DURING SOME PHASE OF THE NEW CONSTRUCTION OR REQUIRE SOME SPECIAL CONSIDERATIONS.
9. WHENEVER THE REMOVAL OF EXISTING ELECTRICAL PANELBOARDS ARE CALLED FOR AND ALL EXISTING BRANCH CIRCUITS ARE NOT TO BE REMOVED, THE EXISTING BRANCH CIRCUITS SHALL BE CONNECTED TO OTHER EXISTING ELECTRICAL EQUIPMENT OR PANELS STILL IN USE WITH MINIMUM INTERRUPTIONS OF POWER. ALSO, IF REQUIRED, THESE SAME BRANCH CIRCUITS SHALL BE RECONNECTED TO RELOCATED EXISTING OR NEW PANELBOARDS AS PART OF THE NEW CONSTRUCTION. THIS APPLIES TO SIGNAL AND COMMUNICATIONS SYSTEMS EQUIPMENT, CONDUIT AND WIRE AS WELL.
10. THE ELECTRICAL CONTRACTOR SHALL REVISE EXISTING PANEL SCHEDULES TO CORRESPOND TO ACTUAL CONDITIONS AFTER ALL DEMOLITION AND NEW WORK IS COMPLETED.
11. REMOVE ALL ABANDONED CONDUIT AND WIRE ABOVE CEILINGS.
12. WHEN ELECTRICAL EQUIPMENT OR DEVICE IS REMOVED FROM AN EXISTING WALL OR CEILING WHICH IS TO REMAIN, PATCH ABANDONED OPENINGS TO MATCH EXISTING FINISH.
13. IN GENERAL, THE DEMOLITION PLANS SHOW ALL EXISTING EQUIPMENT THAT IS TO BE REMOVED UNLESS NOTED OTHERWISE. HOWEVER, ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THIS DRAWING OR NOT, WHERE LOCATED IN THE AREA SCHEDULED TO BE DEMOLISHED, SHALL BE REMOVED COMPLETELY (INCLUDING CONDUIT AND WIRES BACK TO THE LAST REMAINING FIXTURE, OUTLET, DEVICE, ETC.) UNLESS OTHERWISE NOTED. COORDINATE DEMOLITION WORK WITH ARCHITECT AND GENERAL CONTRACTOR.
14. EXISTING CONDUIT FEEDS UP THROUGH FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH FLOOR WHERE EXISTING WALLS, ETC., ARE REMOVED. REMOVE CONDUCTORS FROM THE POINT BACK TO LAST OUTLET REMAINING IN SERVICE.
15. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC. REMAINING IN OPERATION WHICH IS BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING OF CONDUIT, WIRE, ETC. AS REQUIRED.
16. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF EXISTING CIRCUITS AND ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF REQUIRED
17. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS, IN AS-FOUND CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT. EQUIPMENT TO BE TEMPORARILY REMOVED DUE TO THE CONSTRUCTION SHALL BE CLEANED AND RE-INSTALLED IN ITS ORIGINAL CONDITION OR AS REQUIRED.
18. WHERE EXISTING WALLS HAVE BEEN REMOVED, AND THERE ARE EXISTING CONDUIT FEEDS WHICH HAVE BEEN CUT OFF AND CAPPED FLUSH WITH THE FLOOR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND DIMENSION ALL SUCH CONDUITS ON THE "AS-BUILT" DRAWINGS.
19. IF ANY EQUIPMENT THAT IS SCHEDULED TO REMAIN IN OPERATION IS DAMAGED BY THE CONTRACTOR, IT SHALL BE REPLACED TO ITS ORIGINAL CONDITION SATISFACTORY TO THE OWNER AT CONTRACTOR'S EXPENSE.

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IDENTIFICATION STAMP
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FILE NO: 41-28
APPL NO: 01-116522
AC._____ FLS._____ SS._____
DATE_____

REVISIONS

1	2-15-18	ADDENDUM 1

ARCH PROJECT NO: 1277.04
DRAWN BY:
DRAWING SCALE: AS NOTED
PTN: 69070-97
DSA BACKCHECK
11/09/17

SHEET TITLE

SITE PLAN DEMO

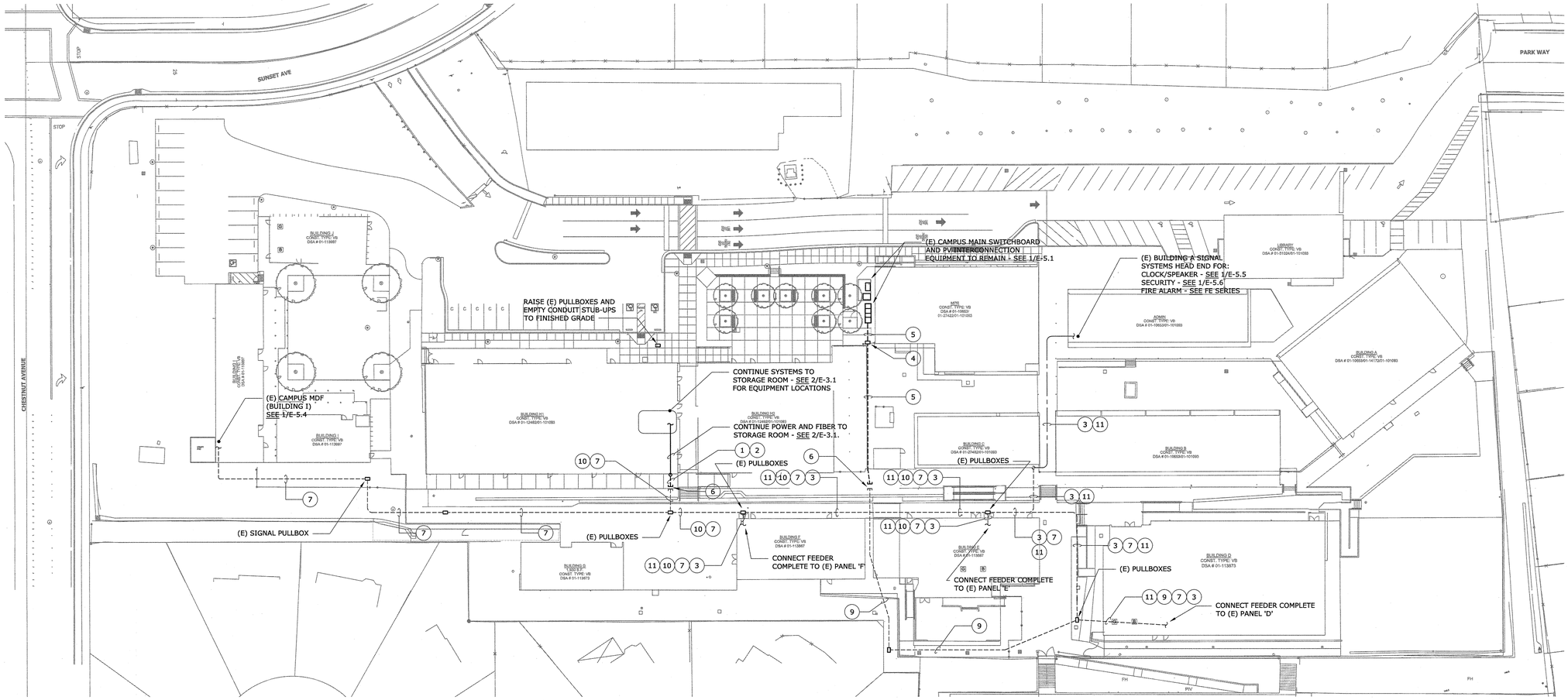
SHEET NUMBER
E-1.0
ADD 01
01.12

PARKWAY HEIGHTS MS 2016 MODERNIZATION – 216108

NUMBERED SHEET NOTES

1. PROTECT IN PLACE (E) (4) 2" SIGNAL CONDUITS AND UTILIZE TO TRANSITION FIBER OPTIC CABLING TO BUILDING H - SEE 1/E-5.4.
2. PROVIDE AND INSTALL (2) 2" C. FOR BUILDINGS E AND F POWER FEEDERS TRANSITION. SEE NUMBERED NOTE 10 AND 1/E-5.1 FOR FEEDER SIZING.
3. PROVIDE AND INSTALL (N) SIGNAL SYSTEMS WIRING IN (E) RACEWAY TO BUILDING A HEAD END SIGNAL LOCATION, FOR FOLLOWING SYSTEMS:
   - CLOCK/SPEAKER - SEE 2/E-5.2
   - SECURITY - SEE 3/E-5.2
   - FIRE ALARM - SEE FE SERIES

   (N) SYSTEMS CABLING IS REQUIRED TO REPLACE (E) TEMPORARY FEEDS WHICH ARE TO BE REMOVED PER DEMO SHEET E-1.0. COORDINATE WITH DISTRICT PRIOR TO DEMOLITION.
4. PROVIDE FLUSH, IN GRADE PULLBOX CHRISTY (OR EQUAL), SIZED AS NOTED ON PLANS. PULLBOX COVER SHALL BE LABELED AS IDENTIFIED ON PLANS. WHERE LOCATED IN TRAFFIC AREAS, BOXES SHALL BE 'TRAFFIC RATED' REINFORCED CONCRETE WITH STEEL FRAME AND STEEL COVER. WHERE LOCATED ELSEWHERE, BOXES SHALL BE REINFORCED CONCRETE AND COMPOSITE COVER. ALL PULLBOX LOCATION SHALL BE COORDINATED WITH THE ARCHITECT.
5. PROVIDE AND INSTALL TRENCH (OR LINE BORE) FOR BUILDING D POWER FEEDER. SEE 1/E-5.1.
6. INTERCEPT (E) CONDUIT STUB-OUTS AND CONNECT TO (N) CONDUIT SYSTEMS. SITE VERIFY EXACT STUB-OUT LOCATION.
7. PROVIDE AND INSTALL FIBER OPTIC SYSTEMS CABLING IN (E) RACEWAY - SEE 2/E-5.2.
8. CONDUIT SHALL REMAIN EMPTY. INTENDED TO COMPLETE CAMPUS CONDUIT NETWORK FOR FUTURE USE.
9. PROVIDE AND INSTALL POWER FEEDER FOR BUILDING D IN (E) UNDERGROUND RACEWAY. (N) FEEDERS ARE REQUIRED TO REPLACE (E) TEMPORARY FEEDS WHICH ARE REMOVED PER DEMO SHEET E-1.0. REFER TO E-5.1 FOR CONDUIT AND FEEDER SIZING.
10. PROVIDE AND INSTALL POWER FEEDERS FOR BUILDINGS E AND F IN (E) UNDERGROUND RACEWAY. (N) FEEDERS ARE REQUIRED TO REPLACE (E) TEMPORARY FEEDS WHICH ARE REMOVED PER DEMO SHEET E-1.0. REFER TO E-5.1 FOR CONDUIT AND FEEDER SIZING.
11. PROVIDE AND INSTALL FIRE ALARM SYSTEM CABLING IN (E) RACEWAY - SEE FE-1.1.



SITE PLAN - ELECTRICAL
SCALE: 1" = 30'-0"

1 / E-1.1

REF. NORTH

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AC FLS SS
DATE NOV 09 2017

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ARCH PROJECT NO:	1277.04
DRAWN BY:	
DRAWING SCALE:	AS NOTED
PTN:	69070-97

DSA BACKCHECK
11/09/17

SHEET TITLE

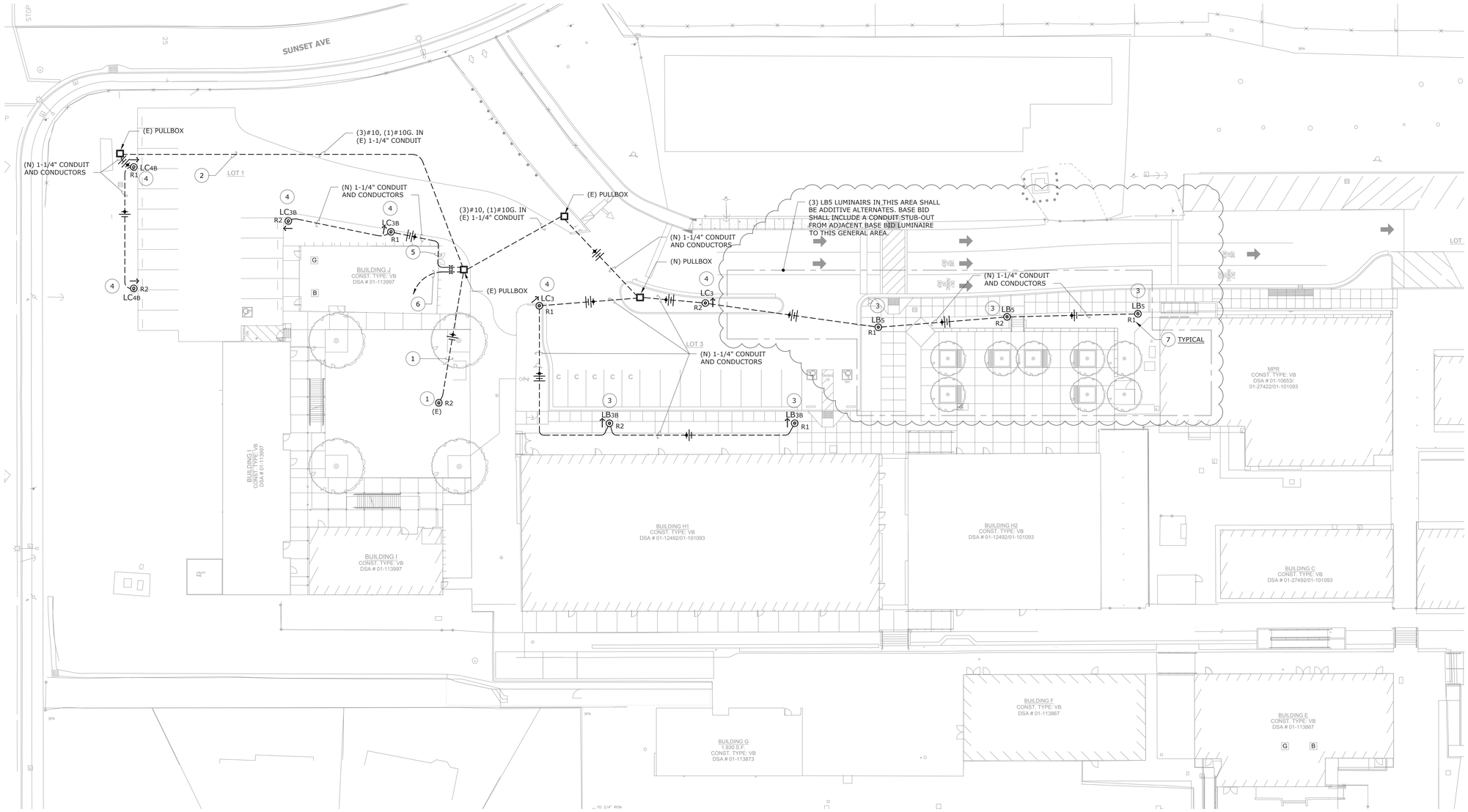
SITE PLAN - ELECTRICAL

SHEET NUMBER

E-1.1

NUMBERED SHEET NOTES

1. EXISTING LUMINAIRE TO BE CONNECTED COMPLETE TO (N) BRANCH CIRCUIT LIGHTING AND CONTROLS VIA (E) RACEWAY.
2. NOT USED.
3. SEE DETAIL 6/E-7.2.
4. SEE DETAIL 7/E-7.2.
5. EXTEND NEW 1-1/4" CONDUIT FROM EXISTING STUB-OUT TO NEW LUMINAIRE.
6. EXTEND NEW 1-1/4" CONDUIT FROM EXISTING STUB-OUT AND HOMERUN (3)#10, (1)#10G. TO NEW SPARE CIRCUIT BREAKER IN (E) PANEL 'J' VIA (2) NEW RELAYS IN (E) SYSERCO RELAY PANEL AND CONNECT COMPETE. RELAYS SHALL BE PROVIDED BY DISTRICT.
7. INDICATED NEW RELAY 'R1' OR 'R2' IN (E) SYSERCO PANEL.



SITE PLAN - LIGHTING

SCALE: 1" = 20'-0"

1 / E-1.2

REF. NORTH

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1	2-15-18	ADDENDUM 1

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SHEET TITLE

SITE PLAN LIGHTING

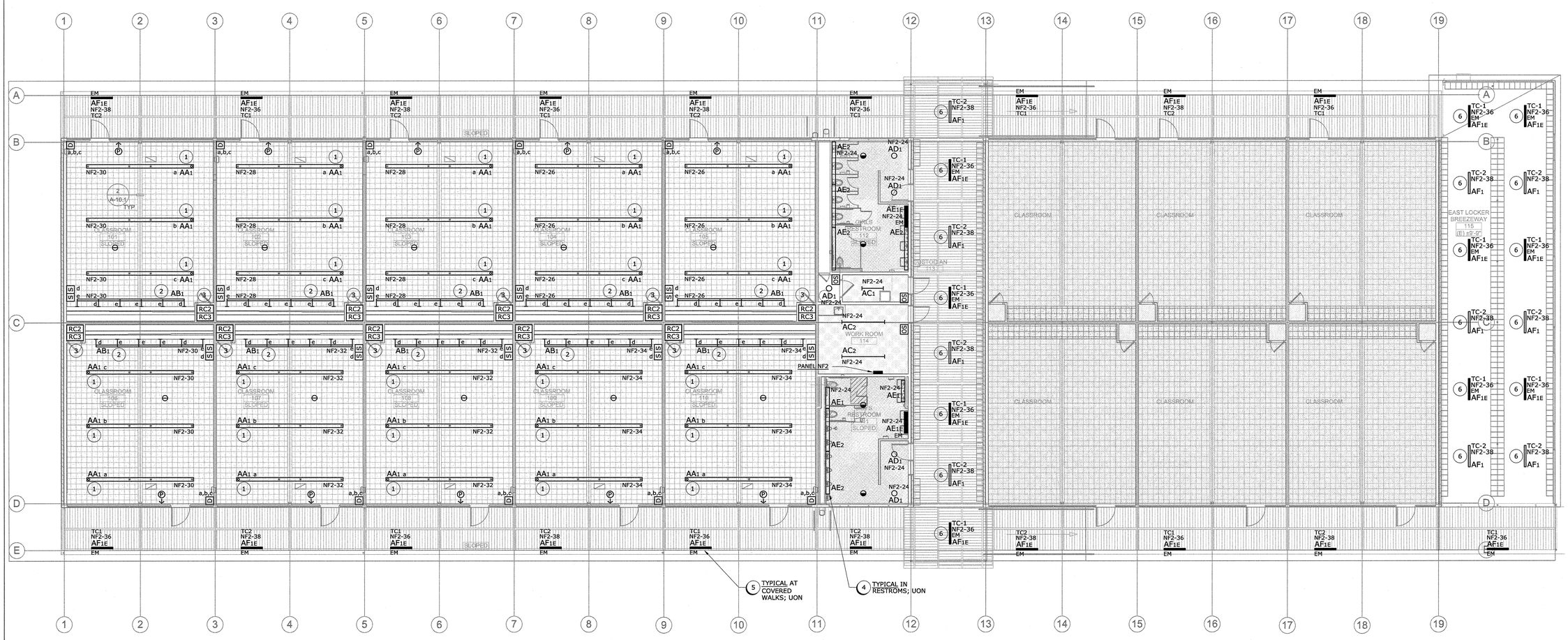
SHEET NUMBER

E-1.2

ADD 01
01.13

NUMBERED SHEET NOTES

1. PENDANT MOUNTED WITH 24" SUSPENSION BETWEEN THE BOTTOM OF THE LUMINAIRE AND THE CEILING. SEE DETAIL 5/E-7.2.
2. WALL MOUNTED AT 8'-0" AFF TO THE CENTERLINE OF THE LUMINAIRE. SEE DETAIL 9/E-7.2.
3. LOCATE ROOM CONTROLLERS IN THE MECHANICAL CLOSET.
4. WALL MOUNTED AT 8'-0" AFF TO THE CENTERLINE OF THE LUMINAIRE. SEE DETAIL 3/E-7.2.
5. MOUNTED TO SIDE OF EAVE RAFTER. SEE DETAIL 8/E-7.2.
6. MOUNTED TO UNDERSIDE OF BREEZEWAY. SEE DETAIL 10/E-7.2.



FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

REF. NORTH

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11/09/17

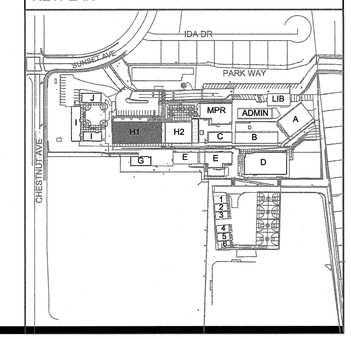
SHEET TITLE

FLOOR PLAN - LIGHTING

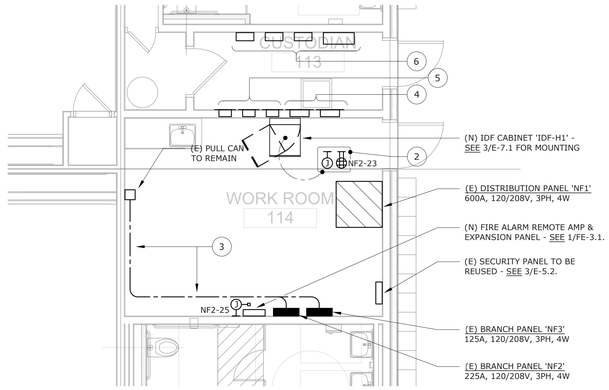
SHEET NUMBER

E-2.1

KEYPLAN



PARKWAY HEIGHTS MS 2016 MODERNIZATION – 216108



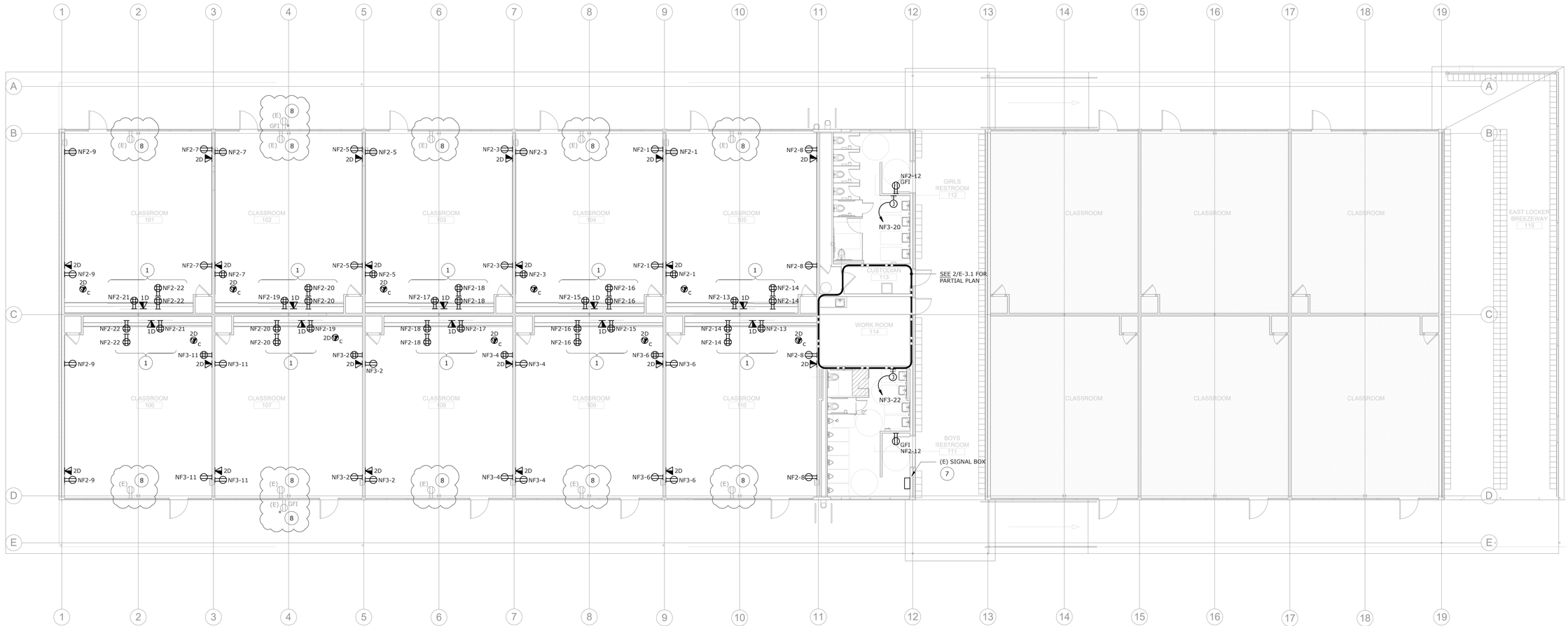
PARTIAL PLAN - STORAGE ROOM - ELECTRICAL

SCALE: 1/4" = 1'-0"

2 / E-3.1

NUMBERED SHEET NOTES

1. ELECTRICAL AND DATA DEVICES TO BE MOUNTED WITHIN TEACHING WALL CABINET. SEE ARCHITECTURAL DETAIL 2/A-10.2. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
2. PROVIDE DEDICATED QUAD RECEPTACLE AND J-BOX WITH #2AWG G. TO NEAREST BUILDING ELECTRODE. LOCATE EQUIPMENT WITHIN (N) IDF CABINET.
3. RE-USE (E) RACEWAY FOR (N) BRANCH CIRCUITS WHERE AVAILABLE - SEE 3/E-7.1. WHERE (N) RACEWAY IS REQUIRED; INSTALLATION, ROUTE AND PAINTING SHALL MATCH (E).
4. (E) PANELS F1 & F2 (ORIGINAL CONSTRUCTION). ALL CONNECTIONS TO BUILDING H1 SHALL BE DEMOLISHED COMPLETE; U.O.N. ALL CONNECTIONS TO BUILDING H2 SHALL BE PROTECTED IN PLACE.
5. (E) FIRE ALARM, PA SYSTEM & CLOCK SYSTEM TERMINAL CANS (ORIGINAL CONSTRUCTION). ALL CONNECTIONS TO BUILDING H1 SHALL BE DEMOLISHED COMPLETE. ALL CONNECTIONS TO BUILDING H2 SHALL BE PROTECTED IN PLACE.
6. (E) FIRE ALARM EXPANSION EQUIPMENT (CERBERUS PYROTRONICS FIRE ALARM EXPANSION). ALL CONNECTIONS TO BUILDING H1 SHALL BE DEMOLISHED COMPLETE. ALL CONNECTIONS TO BUILDING H2 SHALL BE PROTECTED IN PLACE.
7. (E) CLOCK, SPEAKER, SECURITY AND EMS SHALL BE EXTENDED FROM THIS (E) SIGNAL BOX AS REQUIRED TO (N) DEVICES SHOWN.
8. (E) BRANCH CIRCUIT WIRING AT (E) RECEPTACLE SHALL BE PROTECTED IN PLACE THROUGH-OUT DEMOLITION. PROVIDE AND INSTALL A (N) DUPLEX RECEPTACLE (GFI WHERE NOTED) AT THE (E) LOCATION AND CONNECT COMPLETE TO (E) BRANCH CIRFCUIT WIRING.



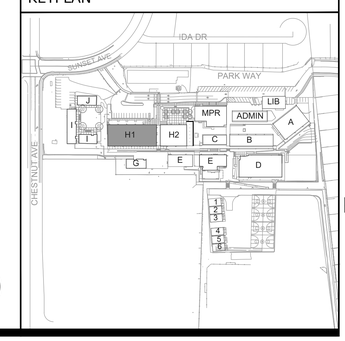
FLOOR PLAN - POWER & DATA

SCALE: 1/8" = 1'-0"

1 / E-3.1

REF. NORTH

KEYPLAN



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DSA BACKCHECK
11/09/17

SHEET TITLE

FLOOR PLAN - POWER & DATA

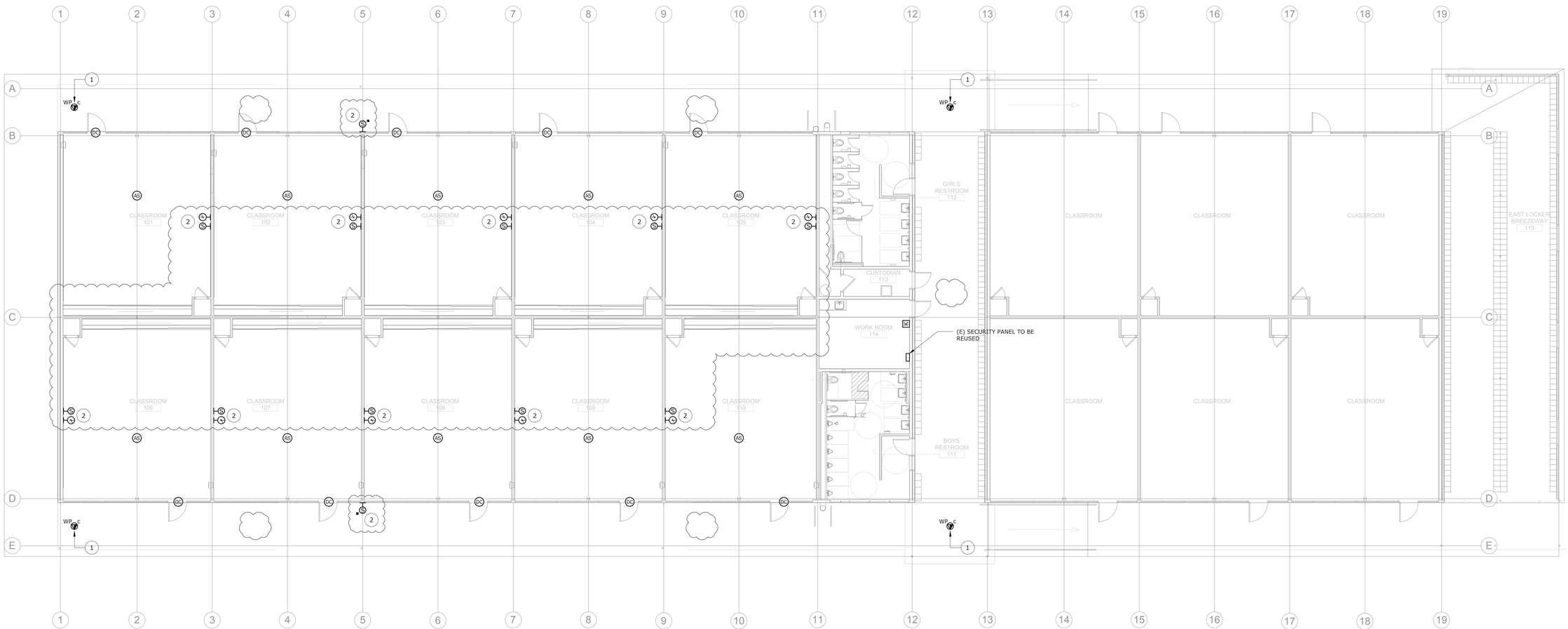
SHEET NUMBER

E-3.1

ADD 01
01.14

NUMBERED SHEET NOTES

1. FOR POE CAMERA. PROVIDE AND INSTALL (1) ACTIVE DATA CABLE WITH FULLY TERMINATED CONNECTOR IN WEATHERPROOF J-BOX. EXACT J-BOX TYPE SHALL BE COORDINATE WITH DISTRICT FOR POE CAMERA MOUNTING.
2. THE (E) FLUSH SPEAKER AND CLOCK BOXES AND ASSOCIATED (E) RACEWAY SHALL BE PROTECTED IN PLACE THROUGH-OUT DEMOLITION AND RE-USED FOR (N) CLOCK AND SPEAKER DEVICES. PROVIDE (N) WIRING THROUGHOUT PER DETAIL 2/E-5.2.



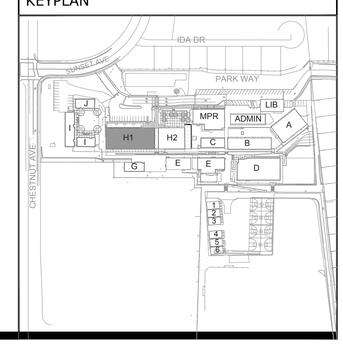
FLOOR PLAN - CLOCK, SPEAKER & SECURITY

SCALE: 1/8" = 1'-0"

1 / E-3.2

REF. NORTH

KEYPLAN



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SHEET TITLE

FLOOR PLAN CLOCK, SPKR & SECURITY

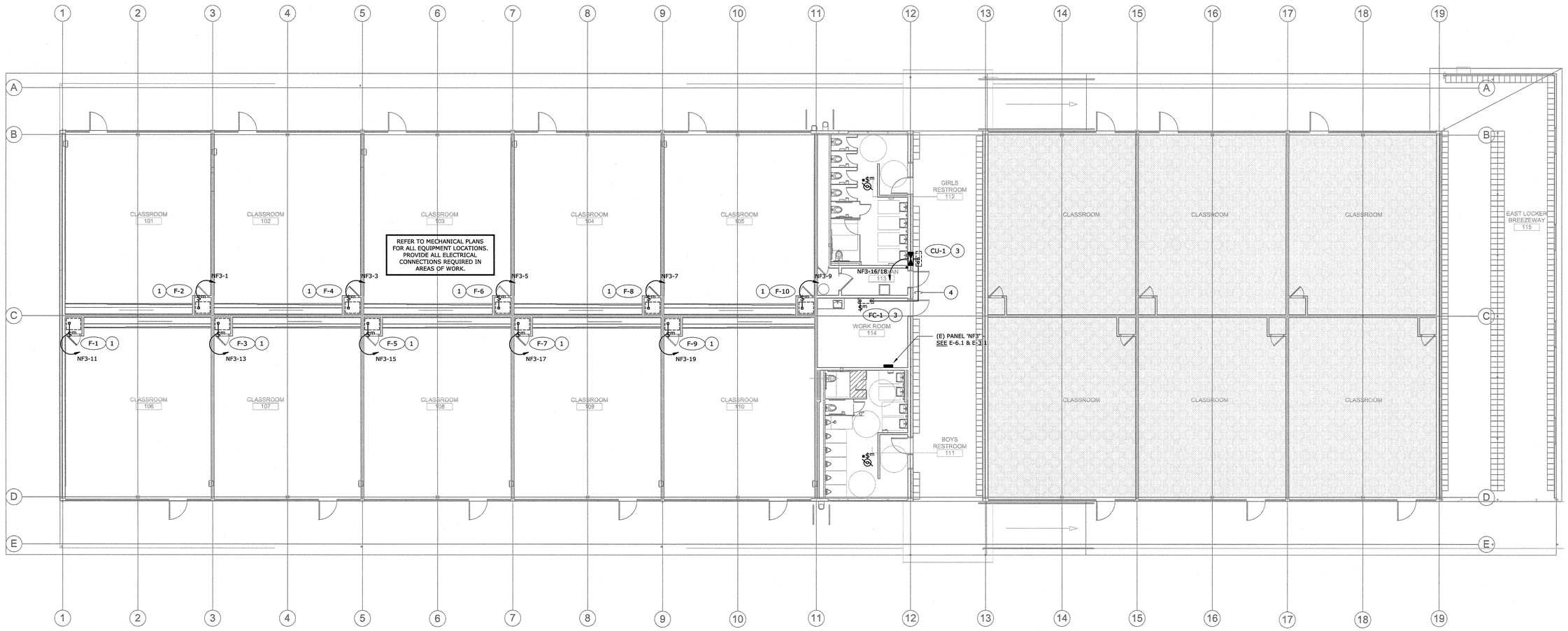
SHEET NUMBER

E-3.2

ADD 01
01.15

NUMBERED SHEET NOTES

1. THE (E) FURNACE UNIT SHALL BE REPLACED - SEE MECHANICAL DRAWINGS. THE (E) BRANCH CIRCUIT WIRING SHALL BE PROTECTED IN PLACE FOR THE DURATION OF THE MECHANICAL UNIT REPLACEMENT. INTERCEPT AND EXTEND THE (E) BRANCH CIRCUIT TO (N) DISCONNECT SHOWN AND CONNECT COMPLETE TO (N) MECHANICAL UNIT.
2. THE (E) EXHAUST FAN SHALL BE REPLACED - SEE MECHANICAL DRAWINGS. THE (E) BRANCH CIRCUIT SHALL BE PROTECTED IN PLACE FOR THE DURATION OF THE MECHANICAL UNIT REPLACEMENT. INTERCEPT AND EXTEND THE (E) BRANCH CIRCUIT TO (N) DISCONNECT SHOWN AND CONNECT COMPLETE TO (N) EXHAUST FAN AS SHOWN ON PLANS.
3. (N) SPLIT SYSTEM UNIT - SEE MECHANICAL DRAWINGS. PROVIDE AND INSTALL (N) BRANCH CIRCUIT AND DISCONNECT TO (N) UNIT AS SHOWN ON PLANS.
4. PROVIDE AND INSTALL 3/4" C. WITH CONTROL WIRING AS REQUIRED BY MECHANICAL.



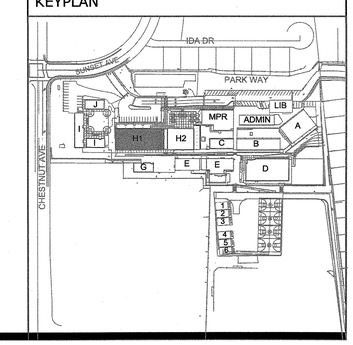
FLOOR PLAN - MECHANICAL EQUIPMENT CONNECTIONS

SCALE: 1/8" = 1'-0"

1 / E-3.3

REF. NORTH

KEYPLAN



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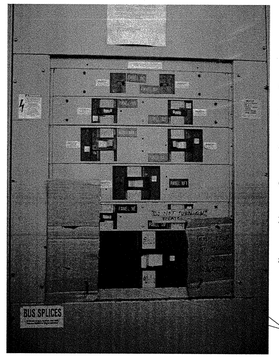
FLOOR PLAN MECHANICAL EQUIPMENT CONNECTIONS

SHEET NUMBER

E-3.3



(E) BREAKERS TO REMAIN
- 100A/3P - NC
- 225A/3P - NB
- 600A/3P - MS-1
- 225A/3P - NE

(E) BREAKERS TO REMAIN
- 100A/3P - NP
- 225A/3P - ND
- 600A/3P - NA1
- 600A/3P - NF1
- 225A/3P - NM

800A/3P - INTERM — DISCONNECT AND REMOVE (E) TEMPORARY CAMPUS FEEDER AND EQUIPMENT AS CONSTRUCTION PHASING ALLOWS. RE-USE (E) BREAKER FOR BUILDING D FEEDER

PROVIDE MANUFACTURER EQUIPMENT COVERS

(E) DISBTIBUTION SECTION

2

TO PG&E P.O.C.

(E) UNDERGROUND PRIMARY - SEE 1/T-E1.0

(E) PAD MTD. UTILITY TRANSFORMER

(E) UNDERGROUND SECONDARY - SEE 1/T-E1.0

(E) PHOTOVOLTAIC AC FEEDER TO REMAIN PROTECTED IN PLACE

EXISTING PV SYSTEM INTERCONNECTION EQUIPMENT

SEE 2/E-5.1 FOR (E) DISTRIBUTION SECTION CONSTRAINTS

(E) DISTRIBUTION BOARD `NF1' 600A, 120/208, 3PH, 4W,

(E) METER MAIN SECTION

(E) EMPTY TRANSITION SECTION (BUS ONLY)

(E) MAIN SWITCHBOARD `MSB' 2000A, 120/208, 3PH, 4W, (NEMA 3R)

(E) DISTRIBUTION SECTION

(E) BPS 2000A 3P

2000A

1000A

1000A

(E) 600A/3P

(E) 800A/3P

CONNECT UPON REMOVAL OF TEMP CAMPUS FEEDER ONLY

100A 3P

100A 3P

225A 3P (E)

100A 3P (E)

150A 3P (E)

20A 1P (E) ..... 20A 1P (E)

800A 3P MAIN

(24) 20A/1P CIRCUIT BREAKERS TO (E) BUILDING H1 LOADS

TYPICAL REFER TO "COPPER FEEDER SCHEDULE" FOR FEEDER SIZING

L01

F01

D01

(E) FEEDER

(E) FEEDER

(E) FEEDER

(E) 600A FEEDER

(E) PANEL 'L01' 100A, 208V 3PH, 4W

(E) PANEL 'F01' 100A, 208V 3PH, 4W

(E) PANELS 'F1 & F2'

(E) PANEL 'NF3' SEE E-6.1

(E) PANEL 'NF2' SEE E-6.1

(E) PANEL 'D01' 800A, 208V 3PH, 4W

SINGLE LINE DIAGRAM

1 / E-5.1

COPPER FEEDER SCHEDULE

FEEDER	CONDUIT	CONDUCTORS
D01	(2) 4"	2 SETS: (4)500 MCM, & (1)#1/0 G.
L01	(1) 2"	(4)#1/0, & (1)#4 G.
F01	(1) 2"	(4)#1/0, & (1)#4 G.
DB1	(2) 4"	2 SETS: (4)500 MCM, & (1)#1/0 G.

FEEDER TAG KEY

400 4 N
- N — INDICATES DOUBLE NEUTRAL
- 4 — WIRE QUANTITY
- 400 — FEEDER AMPACITY

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Parkway Heights Middle School

Modernization Phase 2

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AC ___ FLS ___ SS ___
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ARCH PROJECT NO: 1277.04
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DRAWING SCALE: AS NOTED
PTN: 69070-97
DSA BACKCHECK
11/09/17

SHEET TITLE

SINGLE LINE DIAGRAM

SHEET NUMBER

E-5.1

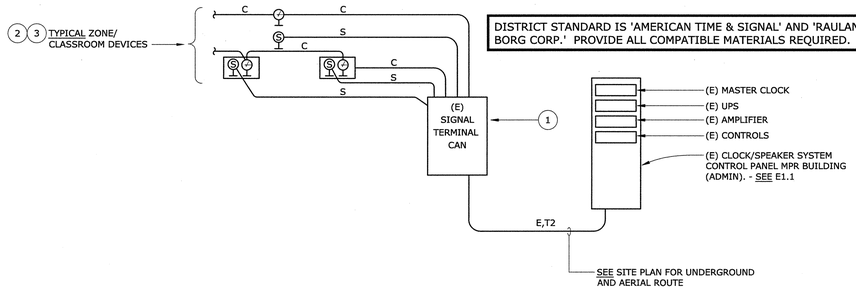
CLOCK/SPEAKER WIRING LEGEND

TAG	DESCRIPTION	
C	CLOCK SYSTEM CABLING (24)	(3)#12 THWN
E	CLOCK SYSTEM CABLING (24)	(3)#10 THWN
S	SPEAKER SYSTEM CABLING (24)	(2)#18 THWN TWISTED/SHIELDED
T1	SPEAKER SYSTEM TRUNK CABLE	(1) 50-PAIR #22 AWG
T2	SPEAKER SYSTEM TRUNK CABLE	(1) 24-PAIR #22 AWG
T3	SPEAKER SYSTEM TRUNK CABLE	(1) 12-PAIR #22 AWG

NOTE: SEE SINGLE LINE DIAGRAM 2/E5.2 FOR ADDITIONAL WIRING REQUIREMENTS

CLOCK / SPEAKER SYSTEM NOTES

1. LABEL "CLOCK/SPEAKER SYSTEM". SEE E-3.1 FOR LOCATIONS.
2. TYPICAL SYSTEM WIRING: (SEE ALSO SHEET E-3.1).
   a) SPEAKER CABLING TO 66 BLOCKS IN NEAREST CLOCK / SPEAKER SYSTEM TERMINAL CABINET WITH CROSS CONNECTS TO SPEAKER SITE CABLES BACK TO MAIN SYSTEM RACK. PROVIDE IDENTIFICATION LABELING FOR ALL TERMINATIONS AND CABLING.
   b) CLOCK CABLING TO 66 BLOCKS IN NEAREST CLOCK / SPEAKER TERMINALS CABINET WITH CROSS CONNECTS TO CLOCK SITE CABLES BACK TO MAIN SYSTEM RACK. ALL CLOCKS WIRED IN PARALLEL. PROVIDE IDENTIFICATION LABELING FOR ALL TERMINATIONS AND CABLING.
3. SPEAKER SYSTEM ZONING THROUGHOUT CAMPUS SHALL BE AS FOLLOWS:
   a) EACH CLASSROOM, RECEPTION AREA, WORKROOM, CONFERENCE ROOM TO BE SEPARATE ZONE.
   b) EXTERIOR ON SEPARATE ZONE.



DISTRICT STANDARD IS 'AMERICAN TIME & SIGNAL' AND 'RAULAND-BORG CORP.' PROVIDE ALL COMPATIBLE MATERIALS REQUIRED.

SINGLE LINE DIAGRAM - CLOCK / SPEAKER (2/E-5.2)
SCALE: NONE

SECURITY WIRING LEGEND

TAG	DESCRIPTION	
A	ETHERNET MODULE WIRING	(1) CAT 6 *
B	KEYPAD WIRING	(1) CAT 6 *
C	SENSOR WIRING	(4)#22 THWN
D	SIREN WIRING	(4)#22 THWN

* UTILIZE O.S.P. RATED WHERE REQUIRED.

EQUIPMENT LEGEND

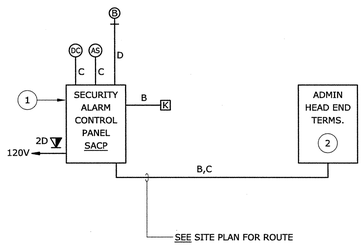
TAG	DESCRIPTION
K	KEYPAD: SONITROL #SONIP KP (STANDARD KEYPAD)
DC	DOOR CONTACT: SONTROL #2505A (FOR STEEL DOOR)
AS	AUDIO SENSOR: SONITROL #AUDIOSENSOR
HB	INTERIOR SIREN: ATW #DT24

SECURITY SYSTEM NOTES

1. DISTRICT STANDARD 'SONITROL', 'FLEXIBASE' CONTROL PANEL. CONFIRM EXACT SONITROL MODEL # WITH DISTRICT PRIOR TO SHOP DRAWING SUBMITTAL.
2. COORDINATE WITH DISTRICT VENDOR FOR FINAL TERMINATIONS REQUIRED.

THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABLING AND PATHWAYS TO SECURITY EQUIPMENT. ALL SECURITY EQUIPMENT SHALL BE SONITROL, WITH DISTRICT PREFERRED VENDOR, 'INTERCOM'.

SEE FLOOR PLANS FOR QUANTITIES

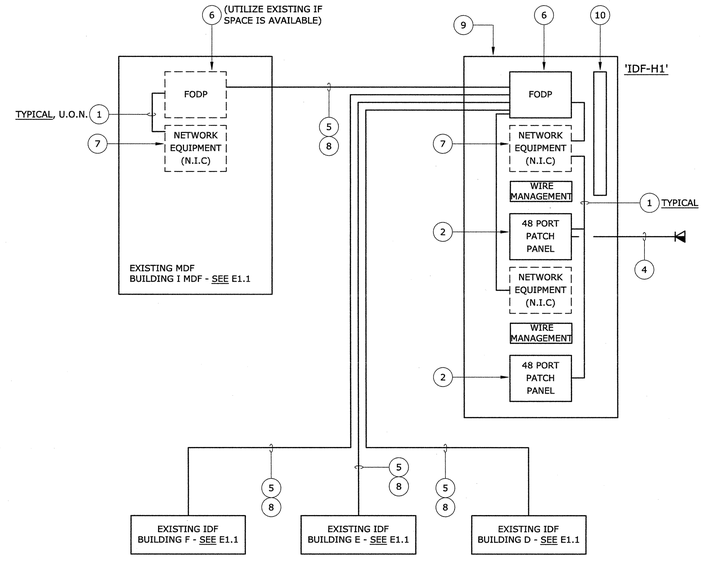


SINGLE LINE DIAGRAM - SECURITY (3/E-5.2)
SCALE: NONE

VOICE/DATA SYSTEM NOTES

1. PROVIDE AND INSTALL ALL CABLING (INCLUDING PATCH CORDS AND TERMINATIONS) FOR A FULLY FUNCTIONAL NETWORK SYSTEM, TYPICAL. SEE SPEC. SECTION 27 0000.
2. PROVIDE AND INSTALL CAT6 PATCH PANELS AND ASSOCIATED HORIZONTAL WIRE MANAGEMENT.
3. NOT USED.
4. TYPICAL CAT6 CABLING TO WALL-MOUNTED DEVICES. SEE E-3.1 FOR DEVICE LOCATIONS AND DATA JACK QUANTITIES.
5. PROVIDE AND INSTALL (1) 12-STRAND (OM4) INDOOR/OUTDOOR RATED MM FIBER AND (1) 4-STRAND SINGLE MODE (OS2) INDOOR/OUTDOOR RATED FIBER.
6. PROVIDE ALL FIBER OPTIC PATCH PANELS AND FULL TERMINATIONS OF ALL FIBER. TERMINATE ALL FIBER ON LC CONNECTORS, PER DISTRICT STANDARD.
7. ALL ACTIVE NETWORK EQUIPMENT (SWITCHES/ROUTERS, ETC.) TO BE PROVIDED AND INSTALLED BY THE DISTRICT.
8. SEE SITE PLAN FOR UNDERGROUND ROUTE.
9. VERTICAL WALL MOUNT RACK CABINET; 'CHATSWORTH' #12419-748 (OR EQUAL). CABINET SHALL ALLOW FOR 30" DEPTH FOR VERTICAL NETWORK EQUIPMENT. PROVIDE WITH VENTILATION FAN.
10. CABINET MOUNTED 120V PLUG STRIP.
11. CONNECT (N) FIBER COMPLETE TO (E) FIBER OPTIC DISTRIBUTION PANEL WITHIN (E) IDF. SEE SITE PLAN FOR ROUTING.

REFER TO SPECIFICATION 27 0000.



SINGLE LINE DIAGRAM - TELECOM (1/E-5.2)
SCALE: NONE

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SHEET TITLE
SINGLE LINE DIAGRAM

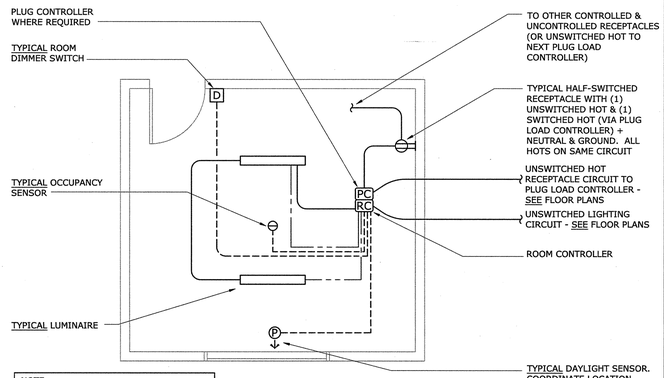
SHEET NUMBER
E-5.2

WIRING LEGEND

——— BRANCH CIRCUIT WIRING - PROVIDED AND INSTALLED BY CONTRACTOR. EXACT QTY., TYPE AND SIZE VARIES

- - - - - CAT5e CABLING - PROVIDED AND INSTALLED BY CONTRACTOR, VERIFY WIRE TYPE WITH LIGHTING CONTROL MANUFACTURER

——-—- 0-10V DIMMING CONTROL WIRING



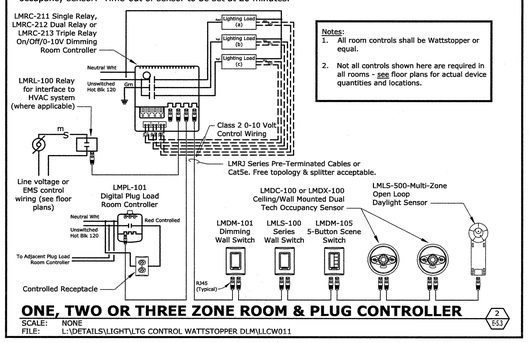
NOTE:
SEE SPECIFIC ROOM CONTROLLER WIRING DIAGRAMS FOR EACH APPLICATION.

TYPICAL ROOM CONTROL DIAGRAM

1 E-5.3

SCALE: NONE
FILE: L:\DETAILS\LIGHT\LTG CONTROL WATTSTOPPER DLM\LLCW007

NOTE:
One, two or three zone 0-10v dimmed application with wall or ceiling mounted occupancy sensor(s) for shut off and manual dimming. Lights will turn on automatically from the occupancy sensor upon entering the space and can be dimmed or switched manually from the device on the wall. Lights will be turned off automatically by the occupancy sensor. Time-out of sensor to be set at 20 minutes.



Notes:
1. All room controls shall be Wattstopper or equal.
2. Not all controls shown here are required in all rooms - see floor plans for actual device quantities and locations.

ONE, TWO OR THREE ZONE ROOM & PLUG CONTROLLER

2 E-5.3

SCALE: NONE
FILE: L:\DETAILS\LIGHT\LTG CONTROL WATTSTOPPER DLM\LLCW011

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11/09/17

SHEET TITLE

SINGLE LINE DIAGRAM

SHEET NUMBER

E-5.3

PANEL NF2

VOLTS: 120 / 208
PHASE: 3 PH
WIRE: 4 W
BUSSING: 225A
POLES: 42P

MAIN BRKR: MLO
FEEDER: EXISTING
CONDUIT: EXISTING
MOUNTED: SURFACE
AIC RATING: SERIES

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
REC - CLASS 105, 104	R	0.00			20/1	1	2	20/1	0.90			R	REC - CLASS 107,108
REC - CLASS 104, 103	R		0.90		20/1	3	4	20/1		0.90		R	REC - CLASS 108, 109
REC - CLASS 103, 102	R			0.90	20/1	5	6	20/1			0.90	R	REC - CLASS 109, 110
REC - CLASS 102, 101	R	0.90			20/1	7	8	20/1	0.72			R	REC - CLASS 110, 105
REC - CLASS 101, 106	R		0.72		20/1	9	10	20/1					SPARE
REC - CLASS 106, 107	R			0.90	20/1	11	12	20/1			0.36	R	REC - RESTROOMS
REC - CLASS 105/110 TV	R	1.10			20/1	13	14	20/1	1.08			R	REC - CLASS 105/110 CAB AV
REC - CLASS 104/109 TV	R		1.10		20/1	15	16	20/1		1.08		R	REC - CLASS 104/109 CAB AV
REC - CLASS 103/108 TV	R			1.10	20/1	17	18	20/1			1.08	R	REC - CLASS 103/108 CAB AV
REC - CLASS 102/107 TV	R	1.10			20/1	19	20	20/1	1.08			R	REC - CLASS 102/107 CAB AV
REC - CLASS 101/106 TV	R		1.10		20/1	21	22	20/1		1.08		R	REC - CLASS 101/106 CAB AV
REC - IDF CABINET	R			1.00	20/1	23	24	20/1			0.77	L	LTG - RESTRMS, WORK, TIMECLOCK
SPARE					20/1	25	26	20/1	1.40			L	LTG - CLASS 105, 104
SPARE					20/1	27	28	20/1		1.40		L	LTG - CLASS 103, 102
SPARE					20/1	29	30	20/1			1.40	L	LTG - CLASS 101, 106
SPARE					20/1	31	32	20/1	1.40			L	LTG - CLASS 107, 108
SPARE					20/1	33	34	20/1		1.40		L	LTG - CLASS 109, 110
SPARE					20/1	35	36	20/1			0.96	L	LTG - EXTERIOR TC1
SPARE					20/1	37	38	20/1	0.91			L	LTG - EXTERIOR TC2
SPARE					20/1	39	40	20/1					SPARE
SPARE					20/1	41	42	20/1					SPARE
		4.00	3.82	3.90					7.49	5.86	5.47		

DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": NON-CONTINUOUS / MISC. LOADS	0.00	100%	0.00
TYPE "L": LIGHTING / CONTINUOUS LOADS	9.64	125%	12.05
TYPE "R": RECEPTACLES (FIRST 10KVA)	10.00	100%	10.00
TYPE "R": RECEPTACLES (OVER 10KVA)	10.90	50%	5.45
TYPE "H": HVAC / MECHANICAL LOADS	0.00	100%	0.00
TOTALS:	30.54		27.50

PHASE A: 11.49 KVA
PHASE B: 9.68 KVA
PHASE C: 9.37 KVA

95.75 MAX AMPS / PHASE

PANEL NF3

VOLTS: 120 / 208
PHASE: 3 PH
WIRE: 4 W
BUSSING: 225A
POLES: 42P

*PROVIDE (N) CIRCUIT BREAKER

MAIN BRKR: MLO
FEEDER: EXISTING
CONDUIT: EXISTING
MOUNTED: SURFACE
AIC RATING: SERIES

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
FURNACE - RM 101	H	1.30			15/1*	1	2	20/1	0.90			H	FURNACE - RM 16
FURNACE - RM 102	H		1.30		15/1*	3	4	20/1		0.90		H	FURNACE - RM 28
FURNACE - RM 103	H			1.30	15/1*	5	6	20/1			0.90	H	FURNACE - RM 15
FURNACE - RM 104	H	1.30			15/1*	7	8	20/1	0.90			H	FURNACE - RM 27
FURNACE - RM 105	H		1.30		15/1*	9	10	20/1		0.90		H	FURNACE - RM 14
FURNACE - RM 106	H			1.30	15/1*	11	12	20/1			0.90	H	FURNACE - RM 26
FURNACE - RM 107	H	1.30			15/1*	13	14	20/1					SPARE
FURNACE - RM 108	H		1.30		15/1*	15	16	20/2*		1.27		H	FAN COIL UNIT - TEACHERS RM
FURNACE - RM 109	H			1.30	15/1*	17	18				1.27	H	
FURNACE - RM 110	H	1.30			15/1*	19	20	30/1	2.30			M	HAND DRYER - BOYS RR
EF - GIRLS RR	H		0.40		15/1*	21	22	30/1		2.30		M	HAND DRYER - GIRLS RR
EF - BOYS RR	H			0.40	15/1*	23	24	20/1					SPARE
SPARE					20/1	25	26	20/1					SPARE
SPARE					20/1	27	28	20/1					SPARE
SPARE					20/1	29	30	20/1					SPARE
SPARE					20/1	31	32	20/1					SPARE
SPARE					20/1	33	34	20/1					SPARE
SPARE					20/1	35	36	20/1					SPARE
SPARE					20/1	37	38	20/1					SPARE
SPARE					20/1	39	40	20/1					SPARE
SPARE					20/1	41	42	20/1					SPARE
		5.20	4.30	4.30					4.10	5.37	3.07		

DEMAND LOAD SUMMARY	CONN. KVA	DEMAND FACTOR	DEMAND KVA
TYPE "M": NON-CONTINUOUS / MISC. LOADS	4.60	100%	4.60
TYPE "L": LIGHTING / CONTINUOUS LOADS	0.00	125%	0.00
TYPE "R": RECEPTACLES (FIRST 10KVA)	0.00	100%	0.00
TYPE "R": RECEPTACLES (OVER 10KVA)	0.00	50%	0.00
TYPE "H": HVAC / MECHANICAL LOADS	21.74	100%	21.74
TOTALS:	26.34		26.34

PHASE A: 9.30 KVA
PHASE B: 9.67 KVA
PHASE C: 7.37 KVA

80.58 MAX AMPS / PHASE

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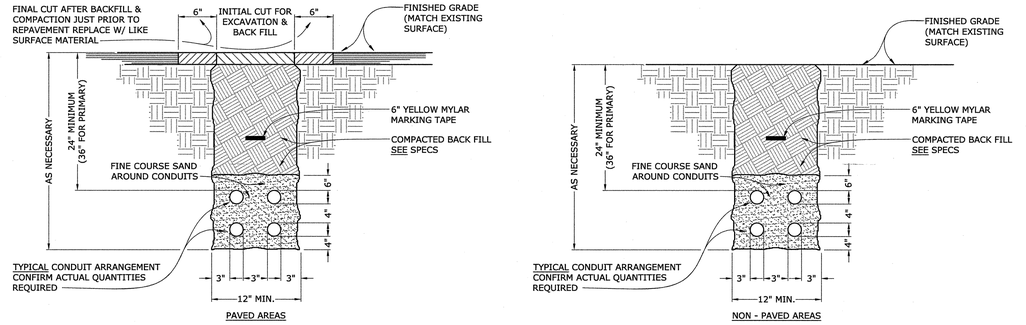
SHEET NUMBER

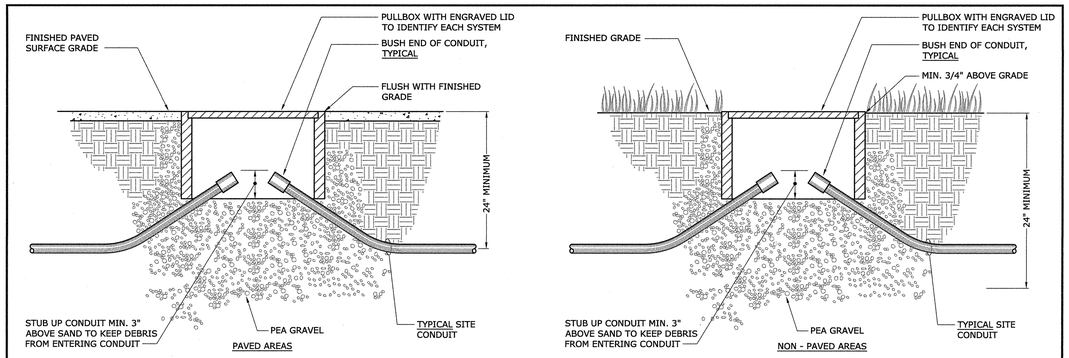
E-6.1



TYPICAL TRENCH SECTIONS

SCALE: NOT TO SCALE
FILE: L:\DETAILS\POWER\TRENCH\PTREN005

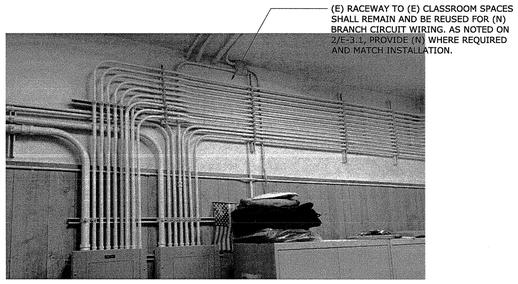
1 E-7.1



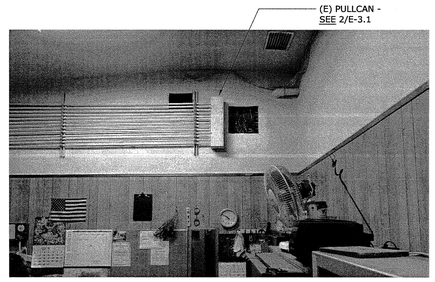
TYPICAL PULLBOX DETAILS

SCALE: NOT TO SCALE
FILE: L:\DETAILS\POWER\UG-PULLBOX\PUGP007

2 E-7.1



PLAN-SOUTH WALL VIEW
(STORAGE ROOM)

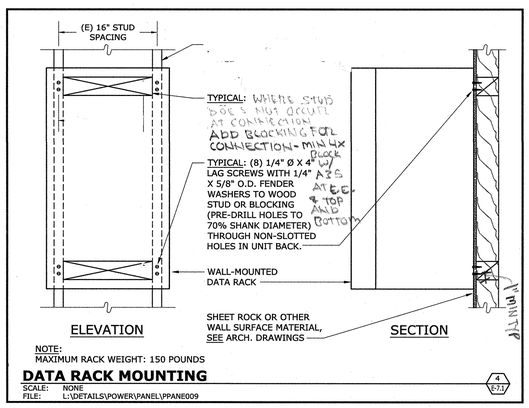


PLAN-WEST WALL VIEW
(STORAGE ROOM)

EXISTING RACEWAY DETAIL

SCALE: NOT TO SCALE

3 E-7.1



DATA RACK MOUNTING

SCALE: NONE
FILE: L:\DETAILS\POWER\PANEL\PPANE009

4 E-7.1

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DETAILS

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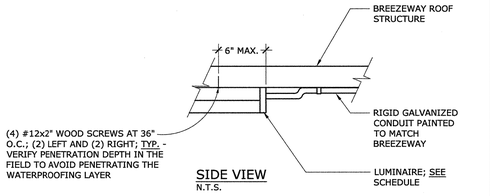
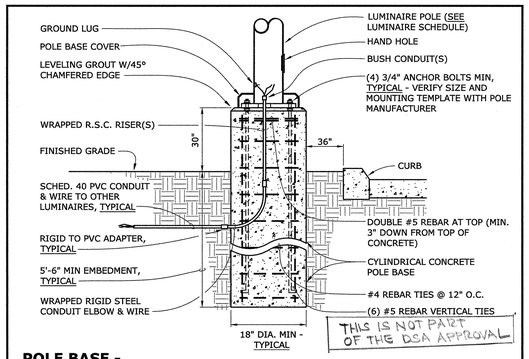


SURFACE MOUNTED BREEZEWAY DETAIL

SCALE: NOT TO SCALE

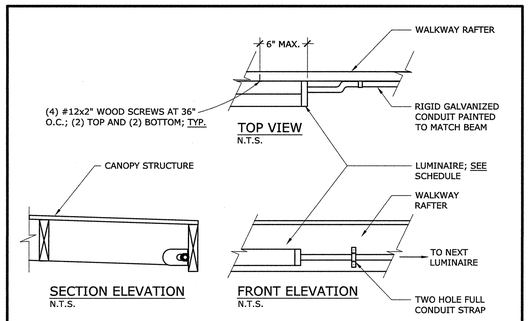
10 E-7.2



POLE BASE - RAISED AT PARKING AREA ADJACENT TO CURB

SCALE: NOT TO SCALE
FILE: L:\DETAILS\LIGHT\POLEBASE\LPOLE031

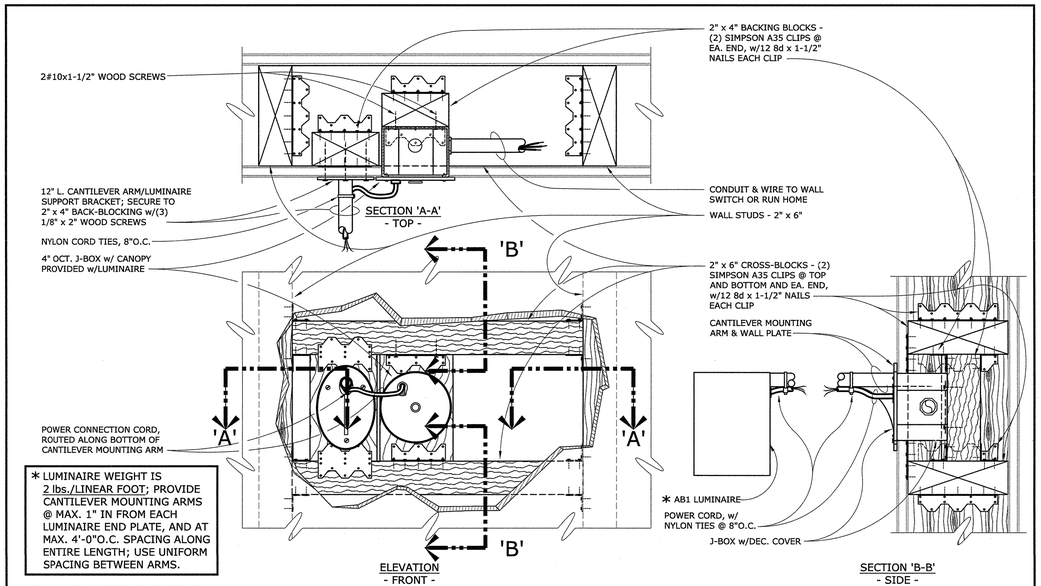
7 E-7.2



SURFACE MOUNTED CANOPY DETAIL

SCALE: NOT TO SCALE

8 E-7.2



AB1 MOUNTING DETAIL

SCALE: NONE
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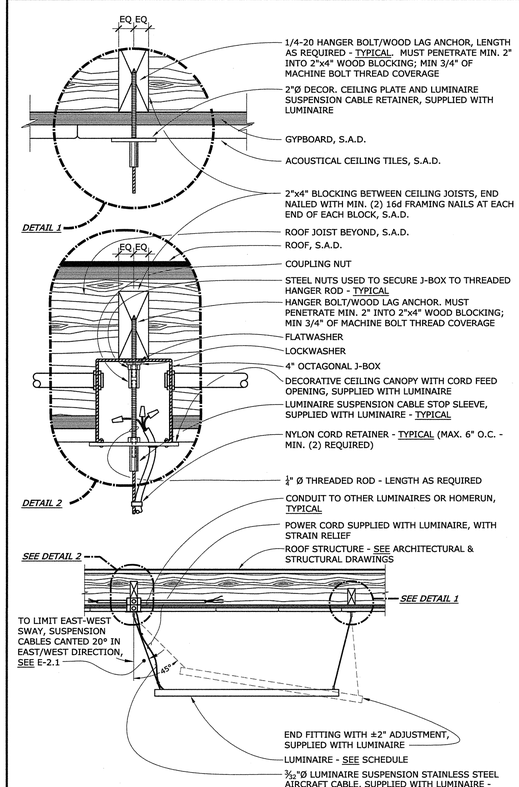
9 E-7.2

NOTES: 1. LUMINAIRE SHALL BE FREE TO SWING 45° FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT HITTING ANY OBSTRUCTION.



SUSPENDED LUMINAIRE MOUNTING - ACOUSTICAL TILES OVER GYPBOARD ON STRUCTURE

SCALE: NONE
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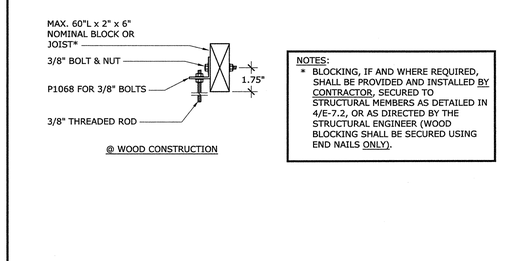
5 E-7.2

POLE BASE AT PLANTING AREA

SCALE: NOT TO SCALE
FILE: L:\DETAILS\LIGHT\POLEBASE\LPOLE028

6 E-7.2



THREADED ROD CONNECTION TO STRUCTURE

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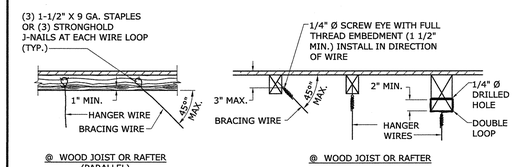
1 E-7.2



HANGER & BRACING WIRES AT WOOD FRAMING

SCALE: NONE
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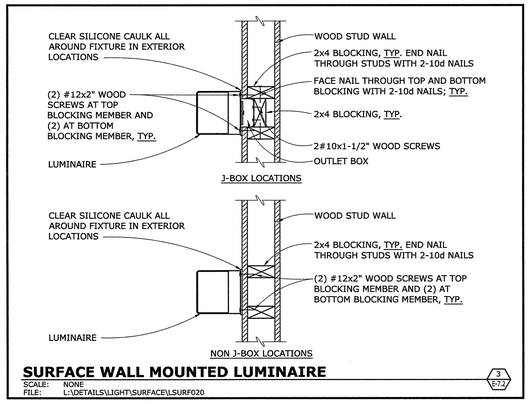
2 E-7.2



SURFACE WALL MOUNTED LUMINAIRE

SCALE: NONE
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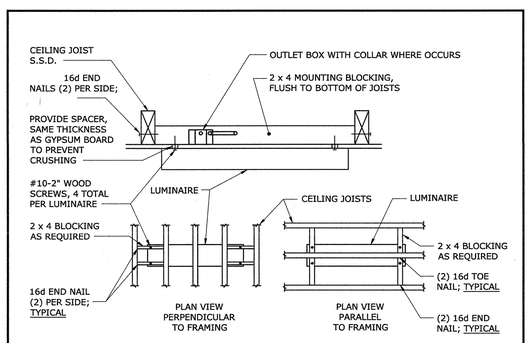
3 E-7.2



SURFACE MOUNTED LUMINAIRE

SCALE: NONE
FILE: L:\LIGHT\SURFACE\LSURF003

4 E-7.2

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DSA BACKCHECK
11/09/17

SHEET TITLE

DETAILS

SHEET NUMBER

E-7.2

PARKWAY HEIGHTS MS 2016 MODERNIZATION - 216108

GENERAL FIRE ALARM NOTES

1. 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.
2. 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
3. UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS.
4. 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.
5. 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.
6. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL THREE DISTINCTIVE FIRE ALARM SOUND PER NFPA 72.
7. APPLICABLE CODES:

   a. CBC 2016; CEC 2016; CMC 2016; CFC 2016.

   b. STATE FIRE MARSHAL TITLE 19, PUBLIC SAFETY.

   c. NFPA 72, 2016 EDITION W/CA AMENDMENTS, FIRE ALARM CODE.
8. 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.
9. 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.
10. 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".
11. INSTALL ALL WIRING IN CONDUIT, MIN. 3/4" CONDUIT. ALL FIRE ALARM SYSTEM WIRING SHALL BE FLP (FIRE POWER LIMITED) OR FPLP (FIRE POWER LIMITED PLENUM RATED) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
12. CONDUIT AND WIRING SHALL BE PER MANUFACTURERS REQUIREMENTS.
13. ALL FIRE ALARM COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICES/EQPT. SHALL EXCEED 20LBS. WITHOUT SPECIAL MOUNTING DETAILS.
14. 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.
15. A STAMPED SET OF APPROVED PLANS SHALL BE ON THE JOB SITE AT ALL TIMES AND SHALL BE USED FOR INSTALLATION.
16. ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND ARCHITECT/ENGINEER OF RECORD.
17. THE CONTRACTOR SHALL INSTALL AND ADJUST ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
18. 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.
19. 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.
20. 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 SUPERVISION STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
21. 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).
22. ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (NFPA 72, 7.7.2.2): PROVIDE NAMEPLATE "FIRE ALARM SYSTEM RECORD DOCUMENTS" (NFPA 72, 7.7.2.4).
23. 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.)

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/SHIELDED
D	SPEAKER NOTIFICATION OUTDOOR CIRCUIT(S)	(2) #16 SHIELDED OUTDOOR RATED WEST PENN #AQ294 (OR EQUAL)
E	ANNUNCIATOR POWER & COMMUNICATIONS	(1) EIA-485 (4-WIRES) + (2) #14 THHN/THWN

NOTE:
CONTRACTOR SHALL VERIFY EXACT CABLE/WIRE TYPES WITH SYSTEM MANUFACTURER PRIOR TO ROUGH-IN.

FIRE ALARM SYSTEM DESCRIPTION

1. THE FIRE ALARM SYSTEM SHALL BE AN AUTOMATIC ADDRESSABLE SYSTEM WITH, CLASS B WIRING FOR IDC'S, NAC'S, AND SLC'S TO MATCH EXISTING.
2. CIRCUIT PATHWAY SURVIVABILITY SHALL BE LEVEL 1.
3. PROVIDE AND INSTALL NEW EQUIPMENT, DEVICES AND REQUIRED MODULES FULLY COMPATIBLE WITH (E) FACP, RECONNECT (E) DEVICES AND PROVIDE CONNECTIONS COMPLETE FOR A FULLY FUNCTIONING NETWORKED FIRE ALARM SYSTEM.
4. THE NAME OF THE SPECIFIC PERSON RESPONSIBLE FOR THE SYSTEM DESIGN IS "JUSTIN KIRK" (O'MAHONY & MYER).
5. 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. 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

1. TERMINATE EACH NOTIFICATION LOOP TO THE FACP OR FAEP AS SHOWN ON PLANS AND RISER DIAGRAMS.
2. TERMINATE EACH INITIATION LOOP AT THE MAIN FIRE ALARM CONTROL PANEL AS SHOWN.
3. PROVIDE A COMPLETE NETWORK FIRE ALARM SYSTEM, INCLUDING REMOTE POWER SUPPLY TERMINAL CABINETS, EXPANDER PANELS, OUTLETS, DEVICES AND WIRING FOR THE FACILITY AS SHOWN.

SEQUENCE OF OPERATION

1. 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.
2. SMOKE, COMBO SMOKE/CO, AND HEAT DETECTORS - WHEN A DETECTOR IS ACTIVATED, IT SHALL ANNUNCIATE AN ALARM AT THE FACP. ALARM SHALL ACTIVATE ALL AUDIO AND VISUAL DEVICES THROUGHOUT THE CAMPUS. FOR CO DETECTOR SEE ITEM 9.
3. ANY BUILDING POWER FAILURE- IF THE BUILDING LOSES 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.
4. SYSTEM SHALL INDICATE TROUBLE ALARMS FOR ALL SYSTEM FAULTS (i.e. GROUND FAULTS, SHORTS, OPEN CIRCUITS, BATTERY DISCONNECT, ETC.).
5. 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.
6. 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.
7. 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.
8. UPON TROUBLE CONDITION, AUTO DIALER TO NOTIFY THE SUPERVISING STATION, AND AUTHORIZED SCHOOL PERSONNEL TO NOTIFY AUTHORIZED TECHNICIAN TO CORRECT THE TROUBLE CONDITION.

9. C.O. DETECTOR SHALL ANNUNCIATE AN C.O. ALARM AT THE F.A.C.P. & REMOTE ANNUNCIATOR PANEL

FIRE ALARM EQUIPMENT LIST

SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NUMBER	CSFM LISTING NUMBER	STANDBY CURRENT	ALARM CURRENT
XLSV	FIRE ALARM CONTROL PANEL TO BE UPGRADED FROM 'XLS' TO 'XLSV'. SEE CUTSHEETS FOR COMPONENTS	SIEMENS XLSV	7165-0067:0222	105mA	175mA
XLSRV	FIRE ALARM REMOTE VOICE & EXPANSION PANEL	SIEMENS XLSRV	7315-0785:0167	105mA	175mA
	FIRE ALARM ANNUNCIATOR PANEL & REMOTE MICROPHONE. MOUNT IN COMMON FLUSH ENCLOSURE.	SIEMENS SSD-C-REM & LVM	7165-0067:0222	200mA	200mA
F	ADDRESSABLE MANUAL PULLSTATION	SIEMENS HMS-D	7150-0067:0036	1.50mA	1.50mA
M	ADDRESSABLE MONITOR MODULE	SIEMENS HTRI-S	7165-0067:0222	1.50mA	1.50mA
R	ADDRESSABLE RELAY MODULE	SIEMENS HTRI-R	7165-0067:0222	1.50mA	1.50mA
S	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	SIEMENS FDO421	7272-0067:0258	0.28mA	0.41mA
S_{CO}	ADDRESSABLE MULTI-CRITERIA FIRE / CO DETECTOR	SIEMENS FDOOTC441	7272-0067:0260	0.40mA	0.65mA
H	ADDRESSABLE FIXED TEMPERATURE HEAT DETECTOR (135F)	SIEMENS FDT421	7270-0067:0262	0.28mA	0.41mA
-	ADDRESSABLE DETECTOR BASE	SIEMENS DB-11	7300-0067:0134	-	-
D	ADDRESSABLE PHOTO DUCT SMOKE DETECTOR. PROVIDE WITH FDBZ492-HR AIR DUCT HOUSING AND RELAY MODULE. LOCATE AND INSTALL REMOTE KEY TEST SWITCH (RTS451KEY)	SIEMENS FDO421	7272-0067:0258	0.25mA	0.4mA
SM	DUAL CIRCUIT SYNCHRONIZATION MODULE	WHEELOCK DSM-12/24	7300-0785:0132	0mA	55mA
SP	VISUAL STROBE, WALL MOUNT, SELECTABLE CANDELA, UL 1971 PUBLIC MODE NOTIFICATION	WHEELOCK RSS-24MCW-R	7300-0785:0154	-	-
			15cd	0mA	60mA
			30cd	0mA	92mA
			75cd	0mA	165mA
			110cd	0mA	220mA
VSP	COMBINATION VISUAL STROBE AND SPEAKER, WALL MOUNT, SELECTABLE CANDELA, UL 1971 PUBLIC MODE NOTIFICATION, VISUAL DEVICE	WHEELOCK ET70-24MCW-R	7125-0785:0152	-	-
			STROBE CKT: 15cd	0mA	60mA
			STROBE CKT: 30cd	0mA	92mA
			STROBE CKT: 75cd	0mA	165mA
			STROBE CKT: 110cd	0mA	220mA
VSP	EXTERIOR VISUAL STROBE AND SPEAKER (1W) WITH WEATHERPROOF SURFACE BACKBOX	WHEELOCK ET70WP-24MCW-R	7125-0785:0152	-	-
			STROBE CKT: 15cd	0mA	60mA
			STROBE CKT: 30cd	0mA	92mA
			STROBE CKT: 75cd	0mA	165mA
			STROBE CKT: 110cd	0mA	220mA
S	EXTERIOR AUDIBLE SPEAKER (1W) WITH WEATHERPROOF SURFACE BACK BOX	WHEELOCK ET-1010R	7125-0785:0105	0mA	14mA

NOTICE TO CONTRACTORS:

THE SYSTEM DESIGN IS BASED ON THE PRODUCTS SHOWN ON THIS FIRE ALARM EQUIPMENT LIST AND HAS BEEN APPROVED BY DSA AS SUCH. DEVIATIONS FROM THE APPROVED DESIGN (FOR MANUFACTURER OR DEVICE LAYOUTS) MAY BE ALLOWED WITH THE APPROVAL BY THE ARCHITECT. HOWEVER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REDESIGN AND RESUBMIT THE PLANS TO DSA FOR RE-APPROVAL.

NOTE:

DETECTOR SUBSCRIPTS:
"c" - DETECTOR IN ACCESSIBLE CEILING SPACE
"p" - DETECTOR WITHIN 36" OF PEAK

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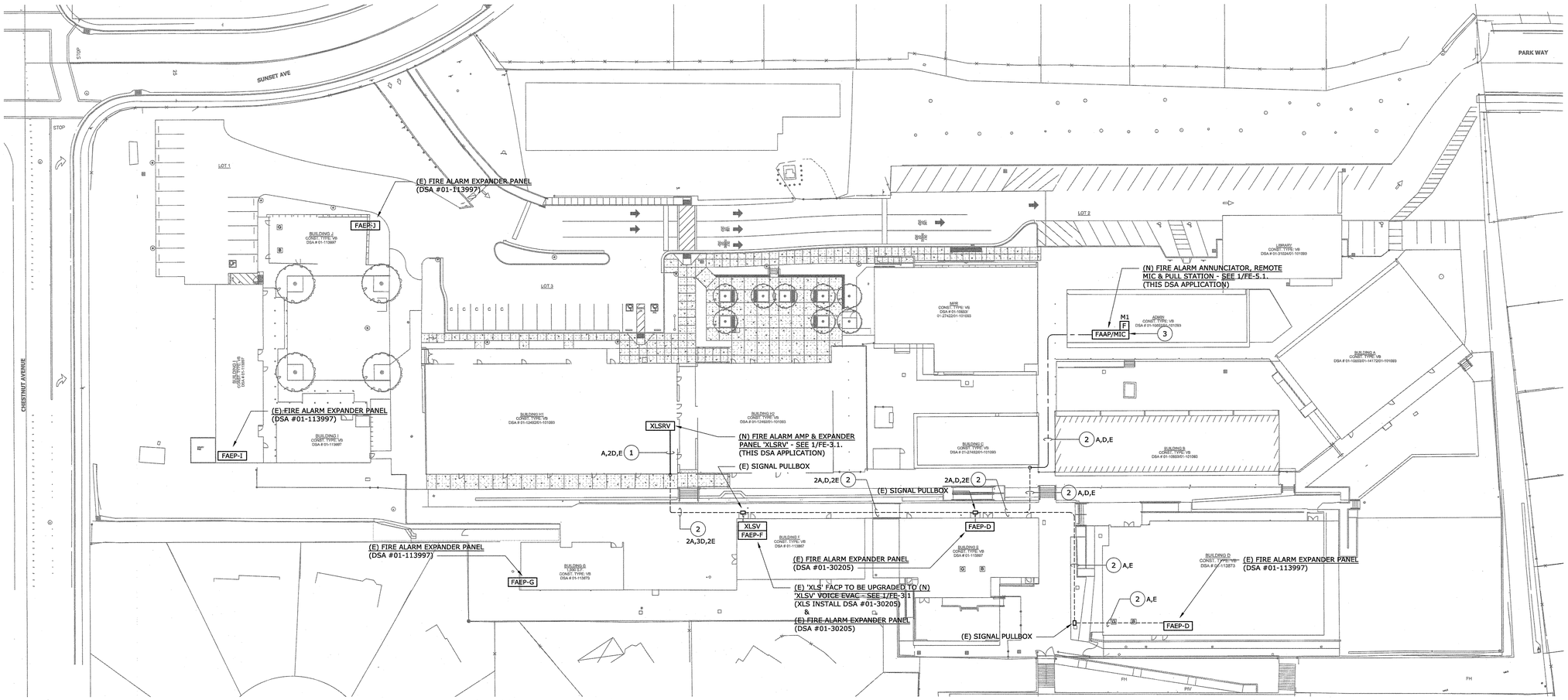
SHEET TITLE
FIRE ALARM EQUIPMENT LIST & GEN NOTES

SHEET NUMBER
FE-0.1

PARKWAY HEIGHTS MS 2016 MODERNIZATION - 216108

NUMBERED SHEET NOTES

1. SEE SITE PLAN E-1.1 FOR CONDUIT REQUIREMENTS AND ROUTING. PROVIDE AND INSTALL FIRE ALARM WIRING INDICATED ADJACENT NUMBERED SHEET NOTE.
2. PROVIDE AND INSTALL FIRE ALARM WIRING INDICATED ADJACENT NUMBERED SHEET NOTE. UTILIZE EXISTING RACEWAY THROUGH-OUT. SITE VERIFY EXACT ROUTE WITH DISTRICT FACILITIES.
3. THE 'FAAP', 'MIC', & PULL STATION SHALL BE LOCATED WITHIN VIEW OF THE RECEPTIONISTS DESK IN THIS AREA. NO FLOOR PLANS SHOW THE EXACT LOCATION, DEVICE SHOWN ON THIS PLAN ONLY FOR GENERAL REFERENCE. THIS CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS TO COORDINATE, LOCATE AND INSTALL THE DEVICE AS REQUIRED.



SITE PLAN - ELECTRICAL
SCALE: 1" = 30'-0"

I
E-1.1

REF. NORTH

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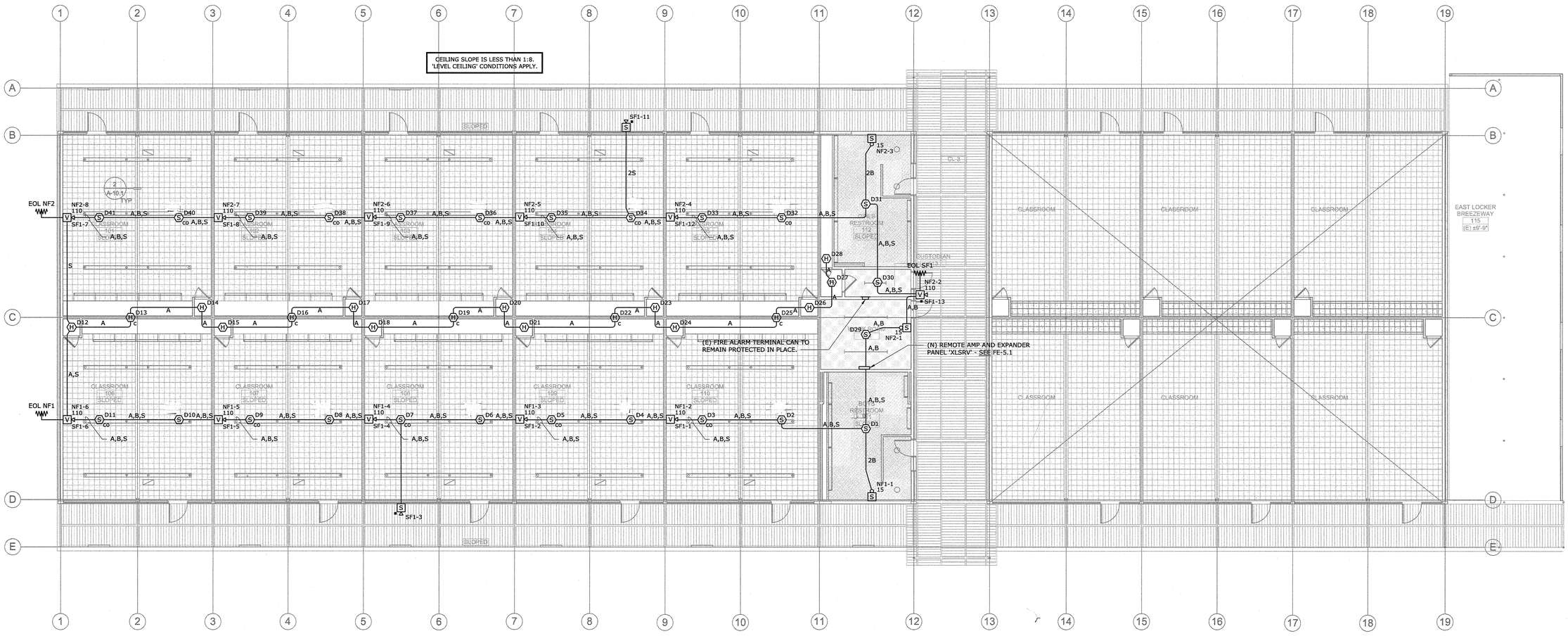
SITE PLAN - FIRE ALARM

SHEET NUMBER

FE-1.1

NUMBERED SHEET NOTES

(1) NOT USED.

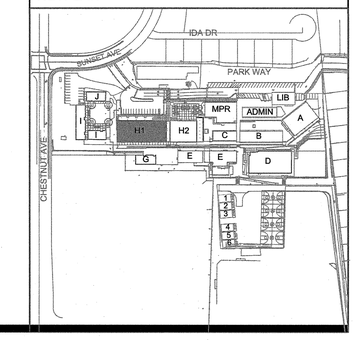


FLOOR PLAN - FIRE ALARM

SCALE: 1/8" = 1'-0"

REF. NORTH

KEYPLAN



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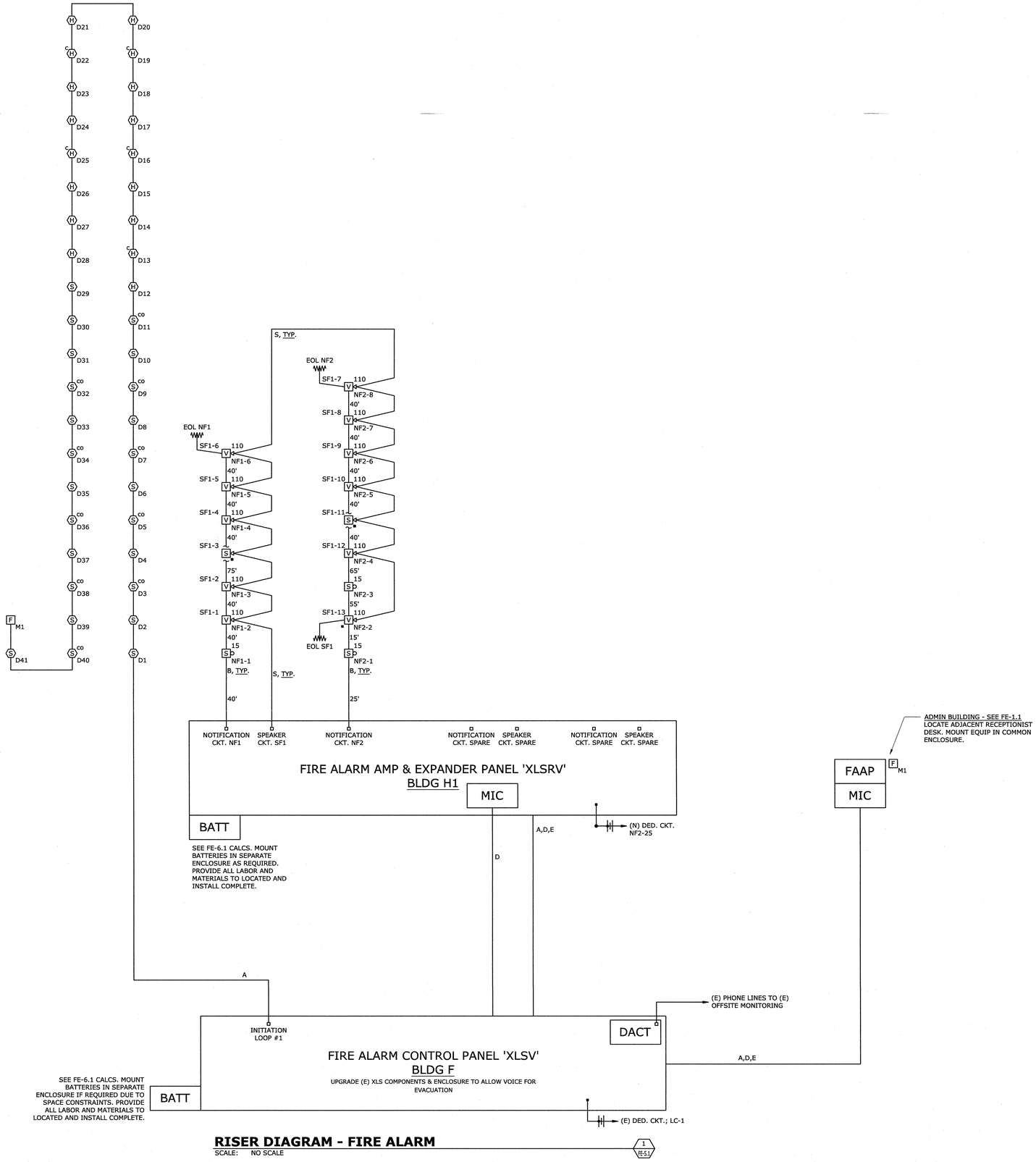
FLOOR PLAN - FIRE ALARM

SHEET NUMBER

FE-3.1



RISER DIAGRAM - FIRE ALARM

SCALE: NO SCALE

1 / FE-5.1

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REGISTERED PROFESSIONAL ENGINEER
No.14738
Exp. 6/17
ELECTRICAL
STATE OF CALIFORNIA

Parkway Heights Middle School

Modernization Phase 2

650 Sunset Ave
South San Francisco, CA 94080
(SSFUSD #01-17)

South San Francisco Unified School District

398 B Street
South San Francisco
CA 94080-4423

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
FILE NO: 41-28
APPL NO: 01-116522
AC. FLS SS KF
DATE NOV 0 0 2017

REVISIONS

ARCH PROJECT NO:	1277.04
DRAWN BY:	
DRAWING SCALE:	AS NOTED
PTN:	69070-97
DSA BACKCHECK	
11/09/17	

SHEET TITLE

RISER DIAGRAM - FIRE ALARM

SHEET NUMBER

FE-5.1

BATTERY CALCULATIONS: FIRE ALARM CONTROL PANEL 'XLSV'

STANDBY MODE

	EA (A)	QTY.	CURRENT
CONTROL UNIT	0.105	2	0.210
ANNUNCIATOR	0.200	1	0.200
(E) DETECTORS	0.0015	149	0.224
(E) MODULES	0.0003	35	0.011
DETECTORS	0.0003	31	0.009
SMK/CO DET.	0.0004	10	0.004
MODULES	0.0015	1	0.002

TOTAL STANDBY CURRENT = 0.644 A
REQUIRED (24 HOURS) = 15.456 AH

ALARM MODE

	EA (A)	QTY.	CURRENT
CONTROL UNIT	0.175	2	0.350
ANNUNCIATOR	0.200	1	0.200
(E) DETECTORS	0.0015	149	0.224
(E) MODULES	0.0004	35	0.013
DETECTORS	0.0004	31	0.012
SMK/CO DET.	0.0007	10	0.007
MODULES	0.0015	1	0.002

TOTAL ALARM CURRENT = 0.808 A
REQUIRED (15 MIN) = 0.202 AH

TOTAL POWER REQUIRED WITH 120%
BATTERY DERATING FACTOR = 18.790 AH

PROVIDE TWO 12V, 31AH BATTERIES
SIEMENS #BTX-1 (OR EQUAL)

BATTERY CALCULATIONS: FAEP 'XLSRV'

STANDBY MODE

	EA (A)	QTY.	CURRENT
FAEP CTRL UNIT	0.075	1	0.075

TOTAL STANDBY CURRENT = 0.075 A
EQUIRED (24 HOURS) = 1.800 AH

ALARM MODE

	EA (A)	QTY.	CURRENT
FAEP CTRL UNIT	0.175	1	0.175
NOTIFICATION CK1NF1	1.193	1	1.193
NOTIFICATION CK1NF2	1.633	1	1.633

TOTAL ALARM CURRENT = 2.826 A
REQUIRED (15 MIN) = 0.707 AH

TOTAL POWER REQUIRED WITH 120%
BATTERY DERATING FACTOR = 3.008 AH

PROVIDE TWO 12V, 90AH BATTERIES PER

VOLTAGE DROP CALCULATIONS — FIRE ALARM EXPANDER PANEL 'XLSRV'

SIGNAL CIRCUIT:	NF1							
TOTAL CKT CURRENT =	1.193 A							
MAX VOLT-DROP =	4.10%							
SYSTEM VOLTAGE =	20.4 V							
Device Address-->		NF1-1	NF1-2	NF1-3	NF1-4	NF1-5	NF1-6	
Type of Device -->	SM	15STR	110SS	110SS	110SS	110SS	110SS	eol
Current of Device (Amp) -->	0.028	0.060	0.220	0.220	0.220	0.220	0.220	0.005
Size of Wire (AWG) -->	#12	#12	#12	#12	#12	#12	#12	#12
istance to each Device (Ft) -->	5	40	40	75	40	40	40	5
Current Total (Amp) -->	1.193	1.165	1.105	0.885	0.665	0.445	0.225	0.005
Device Volt-drop -->	0.11%	0.99%	1.83%	3.09%	3.59%	3.93%	4.10%	4.10%
Device Volt -->	20.38	20.20	20.03	19.77	19.67	19.60	19.56	19.56

SIGNAL CIRCUIT:	NF2									
TOTAL CKT CURRENT =	1.633 A									
MAX VOLT-DROP =	5.77%									
SYSTEM VOLTAGE =	20.4 V									
Device Address-->		NF2-1	NF2-2	NF2-3	NF2-4	NF2-5	NF2-6	NF2-7	NF2-8	
Type of Device -->	SM	15STR	110SS	110SS	110SS	110SS	110SS	110SS	110SS	eol
Current of Device (Amp) -->	0.028	0.060	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.005
Size of Wire (AWG) -->	#12	#12	#12	#12	#12	#12	#12	#12	#12	#12
istance to each Device (Ft) -->	5	25	15	55	65	40	40	40	40	5
Current Total (Amp) -->	1.633	1.605	1.545	1.325	1.105	0.885	0.665	0.445	0.225	0.005
Device Volt-drop -->	0.15%	0.91%	1.35%	2.73%	4.09%	4.76%	5.26%	5.60%	5.77%	5.77%
Device Volt -->	20.37	20.21	20.12	19.84	19.57	19.43	19.33	19.26	19.22	19.22

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CALCULATIONS FIRE ALARM

SHEET NUMBER

FE-6.1