GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

MARTIN ELEMENTARY SCHOOL

MARTIN ELEMENTARY SCHOOL

MARTIN ELEMENTARY SCHOOL MODERNIZATION

35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

PTN: 69070-101

FILE NO.: 04-28

GENERAL NOTES

1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO SEE TO IT THAT ALL MATERIALS AND/OR WORK DESCRIBED, DEPICTED OR DETAILED WITHIN THESE DOCUMENTS, BE FURNISHED AND OR INSTALLED REGARDLESS OF THE LOCATION OF THAT MATERIAL OR WORK WITHIN THE DOCUMENTS OR OMISSION (WHETHER DELIBERATE OR ACCIDENTAL) OF THAT MATERIAL OR WORK BY A SUBCONTRACTOR ON HIS/HER BID.
2. ALL CONTRACTORS, WHETHER THE GENERAL OR SUB, SHALL CONSIDER THESE DOCUMENTS IN THEIR ENTIRETY. DISCREPANCIES OR CONTRADICTIONS BETWEEN PORTIONS OF THESE DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT LEAST 48 HRS PRIOR TO BID OPENING FOR CLARIFICATION. OTHERWISE EITHER DESCRIPTION OR INSTRUCTION SHALL BE IN FORCE UNTIL ONE IS OMITTED BY THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY FENCING AND GATES, SIGNAGE, SECURITY LIGHTING OR OTHER SECURITY AND CONTROL MEASURES NECESSARY TO PROVIDE FOR THE SAFETY OF STUDENTS, FACULTY AND STAFF AROUND THE WORK, UNTIL THE COMPLETION OF THE WORK UNLESS OTHERWISE DETERMINED BY THE ARCHITECT OR CONSTRUCTION MANAGER.
4. THE CONTRACTOR IS RESPONSIBLE TO REPAIR AND/OR REPLACE ALL DISTRICT PROPERTY DAMAGED DURING THE COURSE ON THE WORK, ESPECIALLY BUT NOT LIMITED TO ASPHALT PAVING AROUND THE SITE, STAGING AREA OR PATH OF TRAVEL TO EITHER.
5. THE CONTRACTOR SHALL LIMIT HIS/HER ACTIVITY TO THE AREA DESCRIBED WITHIN THE DOCUMENTS SO AS TO LIMIT HIS/HER LIABILITY FOR DAMAGED PROPERTY UNLESS OTHERWISE PERMITTED BY THE CONSTRUCTION MANAGER OR OWNER.
6. ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF ALL APPLICABLE CODES. SEE LIST THIS SHEET.
7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION EXCEPT DSA APPROVAL.
8. ALL DIMENSIONS SHALL BE FACE OF STUD, UNLESS OTHERWISE NOTED. DIMENSIONS NOTED AS "CLR" MEAN CLEAR DIMENSION TO FACE OF FINISH. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND.
9. ALL ITEMS IN THESE DRAWINGS ARE NEW UNLESS OTHERWISE NOTED.
10. SCHEDULE ALL WORK OUTSIDE THE "EXTENT OF WORK" SET FORTH IN THESE DOCUMENTS WITH THE CONSTRUCTION MANAGER INCLUDING ACCESS AND STORAGE. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION.
11. ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL EXISTING FACILITIES TO REMAIN MUST BE MAINTAINED IN SERVICE AT ALL TIMES. ANY SHUT DOWNS FOR NEW CONNECTIONS MUST BE COORDINATED WITH THE CONSTRUCTION MANAGER TWO WEEKS PRIOR TO THE REQUESTED SHUT DOWN.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY ITEMS DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK. INSTALLATION SHALL MATCH EXISTING IN KIND, QUALITY, AND PERFORMANCE.
13. THE CONTRACTOR SHALL CONTAIN ALL DUST AND DEBRIS TO THE CONSTRUCTION AREA. BROOM CLEAN ALL SIDEWALKS AND DRIVEWAYS EACH DAY. KEEP DIRT AND DUST TO A MINIMUM.
14. ALL REMODELED ITEMS LISTED TO BE SALVAGED FOR THE OWNER SHALL BE DELIVERED TO A PLACE OF STORAGE AS DIRECTED BY THE OWNER. ALL OTHER ITEMS MUST BE DISPOSED OF OFF SITE IN A LEGAL MANNER.
15. ALL WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND TO OCCUPANTS OF EXISTING BUILDINGS.
16. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
    A. COORDINATION WITH OTHER CONTRACTS: IF ANY PART OF THIS CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE CONSTRUCTION MANAGER ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. FAILURE OF THIS CONTRACTOR TO SO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK, EXCEPT AS TO DEFECTS WHICH MAY DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.
    B. COORDINATION SCHEDULE: PORTIONS OF WORK UNDER THIS CONTRACTOR'S WORK MUST BE COMPLETED ON SCHEDULE IN ORDER FOR OTHER NOT-IN-CONTRACT WORK TO BE COMPLETED BY OTHERS. COORDINATION WITH THE CONSTRUCTION MANAGER AND STRICT ADHERENCE TO THE COMPLETION DATES FOR DESIGNATED PORTIONS OF WORK ARE IMPERATIVE. SEE SPECIFICATIONS FOR LIQUIDATED DAMAGES.
17. DEMOLITION IS NOT NECESSARILY LIMITED TO ONLY WHAT IS SHOWN ON THIS OR OTHER DRAWINGS OR AS OUTLINED IN THE SPECIFICATIONS. THE INTENT IS TO INDICATE GENERAL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE PROJECT WITH THE CONSTRUCTION DOCUMENTS.
18. OF PARTICULAR IMPORTANCE IS THE NEED FOR CONTRACTOR TO ASSURE THAT ALL PERSONS ENTERING A POSSIBLY HAZARDOUS AREA, INCLUDING SUPERINTENDENTS, WORKERS, SUBCONTRACTORS, OTHER CONTRACTORS, AND OTHER PERSONS NOT UNDER CONTRACTUAL CONTROL TO THE CONTRACTOR, ARE AWARE OF PROCEDURES.
19. SPECIAL ATTENTION IS CALLED TO THE REQUIREMENT OF THE CONTRACTOR TO COMPLY WITH DSA REQUIREMENTS IN GENERAL AND WITH REGULATIONS INVOLVING ASBESTOS IN PARTICULAR. THESE REGULATIONS ARE STATED IN SECTION 5208, ASBESTOS REGULATIONS, OF TITLE 8, CALIFORNIA CODES OF REGULATIONS. THIS SECTION STIPULATES THAT THE CONTRACTOR MUST INITIATE REPORTS, TESTS, SIGNS AND OTHER ACTIVITIES UNDER CERTAIN JOB CONDITIONS.
20. ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE FIRE STOPPED AND SEALED TO MAINTAIN THE REQUIRED RATING.
21. DETAIL DRAWINGS WITH REFERENCES TO FIRE-RATED ASSEMBLIES OR CONSTRUCTION WHICH HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, THE CALIFORNIA BUILDING CODE OR ANY OTHER APPROVED TESTING AGENCY, SHALL BE CONSTRUED TO INDICATE ALL CONSTRUCTION AND PROCEDURES CONTAINED IN THE REFERENCED ASSEMBLY FOR CONSTRUCTION.
22. CONTRACTOR TO MAINTAIN CONTEMPORANEOUSLY RECORDED "AS-BUILT" INFORMATION OF ALL WORK, WHICH SHALL BE MARKED IN COLOR ON THE DRAWINGS AND SPECIFICATIONS. A SCANNED PDF OF THE "AS-BUILT" DRAWINGS AND SPECIFICATIONS SHALL BE TURNED OVER TO THE OWNER'S REPRESENTATIVE PRIOR TO FINAL APPLICATION FOR PAYMENT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

ADMINISTRATIVE REQMTS.

1. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
2. A COPY OF PARTS 1 AND 2, TITLE 24 C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
3. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR AND PER DSA IR A-6.
4. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335 OF PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.
5. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
6. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24.
7. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333 (B).
8. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.
9. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM DSA-6 IN ACCORDANCE WITH SECTION 4-336 AND 4-343, PART 1, TITLE 24.
10. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTION 4-333(A) AND 4-341, PART 1, TITLE 24.
11. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24.
12. NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO THE DSA FOR APPROVAL.
13. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.
14. CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING:
    - ARCHITECT OR ENGINEER OF RECORD.
    - STRUCTURAL ENGINEER (WHEN APPLICABLE)
    - DELEGATED PROFESSIONAL ENGINEER.
    - DSA
15. MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
16. PER CBC 11B-104.1 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS.
17. NEWLY INSTALLED AND/OR UPGRADED FIRE ALARM:
    a) THE ENTIRE LENS OF STROBE LIGHT IS BETWEEN 80" AND 96".
    b) FLASH RATE SHALL NOT EXCEED 2 FLASHES PER SECOND NOR LESS THAN 1 FLASH PER SECOND.
    c) MANUAL ALARM ACTIVATING HANDLE 42"-48".
    d) BOXES TO COMPLY WITH CBC 11B-309.4, NO TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST

LOCATION MAP

NO SCALE



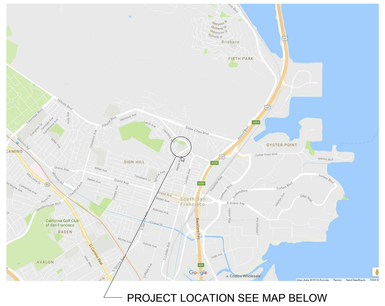
PROJECT LOCATION SEE MAP BELOW

DEFERRED APPROVALS

NONE

VICINITY MAP

NO SCALE



PROJECT LOCATION SEE MAP BELOW

APPLICABLE CODES

ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFORM TO THE FOLLOWING CODES AND REGULATIONS:

2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE,
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR BASED ON THE 2015 INTERNATIONAL BUILDING CODE (IBC) WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR BASED ON THE 2014 NATIONAL ELECTRICAL CODE (NEC) WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR BASED ON THE 2015 UNIFORM MECHANICAL CODE (UMC) WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR BASED ON THE 2015 UNIFORM PLUMBING CODE (UPC) WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR

2007 SAFETY CODE FOR ELEVATORS AND ESCALATORS
(ASME A17.1-2007)

2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR BASED ON THE 2015 INTERNATIONAL FIRE CODE (IFC) WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 CCR
(2015 IEB CODE AND CALIFORNIA AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING CODE (CALGreen), PART 11, TITLE 24, CCR

2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 CCR

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

NFPA 13	INSTALLATION OF SPRINKLER SYSTEMS	2016 EDITION
NFPA 14	INSTALLATION OF STANDPIPE SYSTEMS	2013 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYS.	2013 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL SYS.	2013 EDITION
NFPA 20	INSTALLATION OF STATIONARY PUMPS	2016 EDITION
NFPA 24	INSTALLATION OF PRIVATE FIRE MAINS	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE	2016 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEMS	2015 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYS	2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEM	2015 EDITION

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2016 CBC CHAPTER 35 AND 2016 CFC CHAPTER 45

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

COMPLIANCE WITH CFC CHAPTER 33, FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION WILL BE ENFORCED.

PROJECT SCOPE

1. SITE WORK:
- INSTALLATION OF KINDER PLAY STRUCTURE AND ASSOCIATED PATH OF TRAVEL IMPROVEMENTS
- ACCESSIBLE GATES, (6) TOTAL.
- INSTALLATION OF VEHICULAR GATE AT STAFF PARKING
- LANDSCAPE IMPROVEMENTS.
- ADDITION OF ACCESSIBLE BOTTLE FILLING STATION AT (E) DRINKING FOUNTAIN.

1. BUILDING REMODEL/UPGRADE:
- BARRIER REMOVAL OF INTERIOR CORRIDOR RAMP AND STAIRS IN (E) BUILDING 'A'.
- ACCESSIBLE STAIRS AND RAMP AT SCHOOL ENTRY TO (E) BUILDINGS 'A' AND 'E'.
- WINDOW REPLACEMENT AT (E) BUILDING 'E'.
- STAFF RESTROOMS FIXTURES AND FINISHES UPGRADE AT (E) BUILDING 'E'.
- FURNACE REPLACEMENT AT (E) BUILDINGS 'B', 'C', 'D', & 'F'. ACCESSIBILITY UPGRADES.
- WINDOW REPLACEMENT AT (E) BUILDINGS 'B', 'C', 'D', & 'F'. ACCESSIBILITY UPGRADES.
- ACCESSIBLE KINDERGARTEN TOILET ROOMS AT (E) BUILDING 'B'
- PAINT EXTERIOR OF (E) BUILDINGS 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'J', 'K', 'L', 'M', AND 'P'.
- PAINT EXTERIOR COVERED WALKWAYS.
- NEW FLOOR FINISHES TO ALL CLASSROOMS OF (E) 'A', 'B', 'C', 'F', 'J', 'K', 'L', AND 'M'

DEDUCTIVE ALTERNATIVES

None.

PROJECT TEAM

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FOR REFERENCE ONLY (NOT REVIEWED BY DSA)
REF_G0.2 ABBREVIATIONS AND ALTERNATE MEANS OF CONFORMANCE LETTER DSA APP. 01-116642)
REF_G0.2a DSA PRE-SPPL MEETING MINUTES, SYMBOLS, LEGENDS & ABBREVIATIONS (DSA APP. 01-116354)
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REF_A1.2 COMBINED PLAN (DSA APP. 01.101083)
REF_A1.4 ENLARGED SITE PLAN - PRE-K ENCLOSURE AND ACCESSIBLE PARKING (DSA APP. 01-116642)
REF_A1.5 ENLARGED SITE PLANS AND DETAILS (DSA APP. 01-116354)
REF_A4.1 ENLARGED RESTROOM FLOOR PLANS (DSA APP. 01-117433)
REF_A4.2 BLDG J & BLDG C - ENLARGED RESTROOM PLANS (DSA APP. 01-117433)
REF_A8.2 INTERIOR DETAILS (DSA APP. 01-101083)
REF_A8.5 EXTERIOR DETAILS (DSA APP. 01-101083)

STATEMENT OF GENERAL CONFORMANCE

BELOW IS A STATEMENT OF GENERAL CONFORMANCE
AS PER DSA IR A-18 AND/OR IR A-19

STATEMENT FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS (INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS)
PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

THE STRUCTURAL, MEP, FP AND FA DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR RELOCATABLE BUILDING HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME AND HAVE BEEN FOUND TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME. THE ITEMS LISTED IN THE INDEX OF DRAWINGS ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE (OR FOR WHICH I HAVE BEEN DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK.)

THE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES AND RESPONSIBILITIES UNDER sECTIJON 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 1. (TITLE 24, PART 1 , SECTION 4-317 (b))

SIGNATURE OF THE ARCHITECT/ENGINEER DESIGNATED TO BE IN RESPONSIBLE CHARGE — DATE 03/11/19

MARCUS HIBSER — ARCHITECT OF RECORD — C-27362 LICENSE # — 01/31/21 EXPIRATION DATE

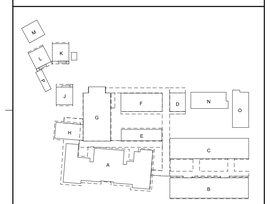
Revisions

No.	Revisions	By	Date	Appr.

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Architect/Engineer Of Record: _____

LICENSED ARCHITECT MARCUS A. HIBSER C-27362 01-31-2021 RENEWAL DATE STATE OF CALIFORNIA

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HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
TITLE SHEET

Client Project Number: Client Proj. #

Scale:
Drawn By: OA
Checked By:CD
Issue Date: 03/11/19
Revit Version: 2017

Sheet
A0.01

3/11/2019 11:14:51 AM C:_Revit Locals\4539_Martin ES_SouthSFUSD_R17_Phase II_cahn@hy-arch.com.rvt

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

ABBREVIATIONS

&	AND
@	AT
C	CENTERLINE
Ø	DIAMETER
#	POUND OR NUMBER
A/C	AIR CONDITIONING
AC	ASPHALTIC CONCRETE
ACOUS	ACOUSTICAL
ACT	ACOUSTIC CEILING TILE
ADD	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINIUM
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BITUM	BITUMINOUS
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
CAB	CABINET
CB	CATCH BASIN
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CG	CORNER GUARD
CJ	CONTROL JOINT
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPOSITION
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CT	CERAMIC TILE
CUST	CUSTODIAN
DBL	DOUBLE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DI	DRAIN OR DROP INLET
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
(E)	EXISTING
E	EAST
EA	EACH
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EVA	EMERGENCY VEHICLE ACCESS
EWC	ELECTRICAL WATER COOLER
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH
FLR	FLOOR
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOS	FACE OF STUD
FRP	FIBERGLASS REINFORCED PANEL
FT	FOOT OR FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GSM	GALVANIZED WHEET METAL
GYP	GYPSUM
HB	HOSE BIB
HC	HOLLOW CORE
HD	HEAD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JT	JOINT
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LT	LIGHT
MAX	MAXIMUM
MB	MACHINE BOLT
MDF	MEDIUM DENSITY FIREBOARD
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MODULAR
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MUL	MULLION
(N)	NEW
N	NORTH
NIC	NOT IN CONTRACT
NO or #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/	OVER
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OPP	OPPOSITE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PR	PAIR
PTD	PAPER TOWEL DISPENSER
PVC	POLYVINYL CHLORIDE
(R)	RELOCATE
RB	RESILIENT OR RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCED
REQ	REQUIRED
RF	RESILIENT FLOORING
RM	ROOM
RO	ROUGH OPENING
RWL	RAIN WATER LEADER
S	SOUTH
SC	SOLID CORE
SCD	SEE CIVIL DRAWINGS
SCHED	SCHEDULE
SD	SOAP DISPENSER
SED	SEE ELECTRICAL DRAWINGS
SFPD	SEE FIRE PROTECTION DRAWINGS
SHT	SHEET
SL	SLOPE
SIM	SIMILAR
SLD	SEE LANDSCAPE DRAWINGS
SMD	SEE MECHANICAL DRAWINGS
SMS	SHEET METAL SCREW
SND	SANITARY NAPKIN DISPENSER
SPD	SEE PLUMBING DRAWINGS
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSD	SEE STRUCTURAL DRAWINGS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPEND
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICK
T.O.	TOP OF
TOC	TOP OF CURB
TOP	TOP OF PARAPET
TOS	TOP OF SLAB
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	WEST
w/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
WO	WHERE OCCURS

SYMBOLS

- COLUMN LINE
- BUILDING ELEVATION — ELEVATION IDENTIFICATION; SHEET WHERE ELEVATION IS SHOWN
- BUILDING OR WALL SECTION — SECTION IDENTIFICATION; SHEET WHERE SECTION IS SHOWN
- DETAIL — DETAIL IDENTIFICATION; SHEET WHERE DETAIL IS SHOWN (- MEANS DETAIL SHOWN ON SAME SHEET)
- INTERIOR ELEVATION(S) — SHEET WHERE ELEVATION IS SHOWN; NO ARROWS MEAN ELEVATION NOT SHOWN; DETAIL NO. OF ELEVATION
- WORK POINT, CONTROL POINT OR DATUM POINT
- REVISIONS — REVISION NUMBER
- ROOM IDENTIFICATION (TYPE 1) — ROOM NAME; KAISER ROOM CODE NAME; ROOM NUMBER
- ROOM IDENTIFICATION (TYPE 2) — ROOM NAME; KAISER ROOM CODE NAME; ROOM NUMBER; CEILING HEIGHT (OTHER THAN EXISTING OR 8'-0" A.F.F.)
- SHEETNOTE TAG — REFER TO SHEETNOTE LIST LOCATED ON PLAN SHEETS
- AREA OF NO WORK
- WINDOW/LOUVER TAG - SEE WINDOW SCHEDULE ON A2.30
- WALL PARTITION TYPE - SEE SHEET A9.05
- DOOR SYMBOL — DOOR MARK SEE DOOR SCHEDULE
- (E) DOOR TO REMAIN
- (E) DOOR TO BE REMOVED
- (N) DOOR & DOOR FRAME
- (E) 2 X 4 FLUORESCENT LIGHT FIXTURE, RECESSED
- (E) 1 X 4 FLUORESCENT LIGHT FIXTURE
- (RE) 1 X 4 FLUORESCENT LIGHT FIXTURE
- (N) 2 X 4 FLUORESCENT LIGHT FIXTURE, RECESSED
- (N) 4 FT. FLUORESCENT LIGHT FIXTURE, WALL MTD.
- (E) 2 X 2 FLUORESCENT LIGHT FIXTURE, RECESSED
- (N) 2 X 2 FLUORESCENT LIGHT FIXTURE, RECESSED
- (N) DOWNLIGHT, RECESSED
- (E) DOWNLIGHT, RECESSED
- (N) WALL WASHER, RECESSED
- (E) SMOKE DETECTOR TO REMAIN
- (N) OR RELOCATED (E) SMOKE DETECTOR
- (N) FIRE ALARM HEAT DETECTOR
- (E) SPEAKER TO REMAIN
- (N) SPEAKER
- (E) SPRINKLER HEAD TO REMAIN
- (RE) SPRINKLER HEAD, ADJUST HEIGHT AS NECESSARY
- (N) SPRINKLER HEAD
- (E) REGISTER (SUPPLY) TO REMAIN
- REGISTER (SUPPLY) - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- (E) GRILLE (RETURN) TO REMAIN
- GRILLE (RETURN) - SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION
- (E) CEILING ACCESS PANEL (A.P.) TO REMAIN
- (RE) CEILING ACCESS PANEL
- (N) CEILING ACCESS PANEL
- (E) CEILING MOUNTED EXIT SIGN
- (E) WALL MOUNTED EXIT SIGN
- (E) LOW LEVEL WALL MOUNTED EXIT SIGN
- (N) CEILING MOUNTED EXIT SIGN
- (N) WALL MOUNTED EXIT SIGN
- (N) WALL SCONCE

NOTE: SOME OF THE ABOVE SYMBOLS MAY NOT HAVE BEEN USED FOR THIS PROJECT.

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Revisions

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LICENSED ARCHITECT MARCUS A. RISBER C-27362 01-31-2021 RENEWAL DATE STATE OF CALIFORNIA

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

SYMBOLS, LEGENDS & ABBREVIATIONS

Client Project Number: Client Proj. #

Scale: 12" = 1'-0"
Drawn By: OA
Checked By: CD
Issue Date: 03/11/19
Revit Version: 2017

Sheet
A0.02

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ACCESSIBLE PATH OF TRAVEL NOTES

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN., AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80".

CONTRACTOR TO VERIFY ALL BARRIERS HAVE BEEN REMOVED AND COMPLIANCE WITH CBC 11B.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE PATH-OF-TRAVEL (POT) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS.
AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED, AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED; AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DRAWINGS, DETAILS 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 A VALUATION THRESHOLD LIMITATION OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.
DURING CONSTRUCTION, IF POT ITEM WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

GENERAL NOTES

1. EXISTING ACCESSIBLE ROUTES TO ALL FACILITIES AND BUILDINGS THAT ARE OPERATIONAL DURING CONSTRUCTION PHASE SHALL REMAIN UNOBSTRUCTED, SAFE AND USABLE BY PERSONS WITH DISABILITIES.
2. THERE ARE NO EXISTING PUBLIC TRANSPORTATION STOPS ON SITE.
3. THERE ARE NO EXISTING PASSENGER DROPOFF / LOADING ZONES ON SITE.
4. FOR ADDITIONAL INFORMATION AND COORDINATION.
   A. SHEET A0.04 FOR SITE PLAN - FIRE LIFE SAFETY
   B. SHEET A0.05 FOR BUILDING CODE ANALYSIS
   C. SHEET A1.02 OVERALL AND ENLARGED SITE PLAN

ALLOWABLE AREA INCREASE, ZONE 'B'

FRONTAGE FOR ZONE B BUILDING PER CBC 506.3

BUILDING H		BUILDING A	
L=7'-2" w=30' =	215'	L= 33'-6" w=30' =	1005'
L=7.0"w=1 0		L= 6'-0" w=30' =	180'
L=11'-5" w=30' =	342' - 6"	L= 35'-6" w=30' =	1065'
L=7'-0" w=1 0'		L= 2'-6" w=23' =	57.5'
L= 34'-0" w= 0'		L= 23'-0" w=30' =	690'
L= 29'-4" w= 0'		L= 2'-6" w=23' =	57.5'
L= 50'-2" w=22.5' =	1128' - 9"	L= 35'-6" w=30' =	1065'
L= 29'-2" w= 0'		L= 6'-0" w=30' =	180'
TOTAL P = 175'-2"		L= 33'-6" w=30' =	1005'
F = 68'-9"		L= 72'-6" w=30' =	1450'
		L= 24'-0" w=1 0'	
		L= 4'-6" w=30' =	135'
		L= 11'-0" w=1 0'	
		L= 13'-0" w=1 0'	
		L= 9'-6" w=30' =	288'
		L= 5'-6" w=30' =	165'
		L= 20'-6" w=1 0'	
		L= 56'-0" w=1 0'	
		L= 13'-0" w=28'-6" =	541.5'
		L= 6'-6" w=1 0'	
		L= 5'-6" w=30' =	165'
		L= 6'-6" w=1 0'	
		L= 23'-0" w=25' =	575'
		L= 23'-6" w=28'-6" =	669.75'
		L= 24'-0" w=1 0'	
		L=72'-6" w=30' =	2175'
		TOTAL P = 696'-0"	
		F = 4'-6"-0"	

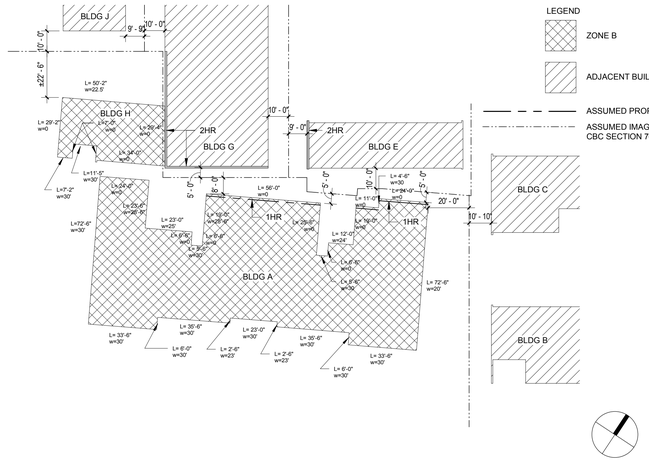
EQ. 5-4 W = 13155.5 / 484.75
W = 27'

EQ. 5-5 F = [484.75*(770.25'-0.25)27'/30
If = [0.38)27'/30
If = 0.342

ZONE B			
E	V-B	CLASSROOM	9,112
F-1	V-B	KITCHEN	1,667
		TOTAL	**10,779**

PER 508.3 NONSEPARATED OCUPANCIES
KITCHEN (F-1) IS MOST RESTRICTIVE (TBL 506.2 TYPE V = 8,500)

CBC 506.2.2 (EQ 5-1)
As = 8500 + (8500 x 0.342) = 11,407
NS= 8500
If= 0.342
At= 8500



CODE ANALYSIS

BLDG	AREA DESIGNATION	STORY	(E) or (N)	CONST TYPE	FIRE SP	MAIN OCC. GROUP	AREA (SQ. FT.)
	ZONE 'A'[2]						
J[1]	CLASSROOM	1	(E)	V-B	YES	E	960
K	CLASSROOM	1	(E)	V-B	NO	E	960
L	CLASSROOM	1	(E)	V-B	NO	E	960
P	TOILET ROOM	1	(N)	V-B	NO	E	480
SHED	STORAGE (ACCESSORY)	1	(E)	V-B	NO	E	150
	ACTUAL AREA						**3,510**
	BASIC ALLOWABLE AREA						9,500
	ZONE 'B'[3]						
A	CLASSROOM	1	(E)	V-B	NO	E	9,112
H	KITCHEN	1	(E)	V-B	NO	F-1	1,667
	ACTUAL AREA						**10,779**
	ALLOWABLE AREA[4]						11,407
	ZONE 'C'[2]						
B	CLASSROOM	1	(E)	V-B	NO	E	4,670
C	CLASSROOM	1	(E)	V-B	NO	E	4,720
	ACTUAL AREA						**9,390**
	BASIC ALLOWABLE AREA						9,500
	ZONE 'D'[2]						
D	CLASSROOM	1	(E)	V-B	NO	E	989
F	CLASSROOM	1	(E)	V-B	NO	E	2,586
	ACTUAL AREA						**3,575**
	BASIC ALLOWABLE AREA						9,500
	BUILDING E[2]						
E	ADMINISTRATIVE	1	(E)	V-B	NO	B	1,698
	ACTUAL AREA						**1,698**
	BASIC ALLOWABLE AREA						9,000
	BUILDING G[3]						
G	ASSEMBLY	1	(E)	V-A	YES	A-3	6,029
	ACTUAL AREA						**6,029**
	BASIC ALLOWABLE AREA						11,500
	EXISTING COVERED WALKS						
COVERED WALK A	1,812 GSF						
COVERED WALK B	1,961 GSF						

1. (E) FIRE SPRINKLER PROVIDES ALTERNATE MEANS OF FIRE PROTECTION. SEE SHEET REF_G0.2.
2. BUILDINGS WITHIN ALLOWABLE BUILDING HEIGHT OF 40 FT. PER TABLE 504.3.
3. BUILDINGS WITHIN ALLOWABLE BUILDING HEIGHT OF 50 FT. PER TABLE 504.3.
4. SEE ALLOWABLE AREA INCREASE CALCULATIONS THIS SHEET.

PARKING COUNT

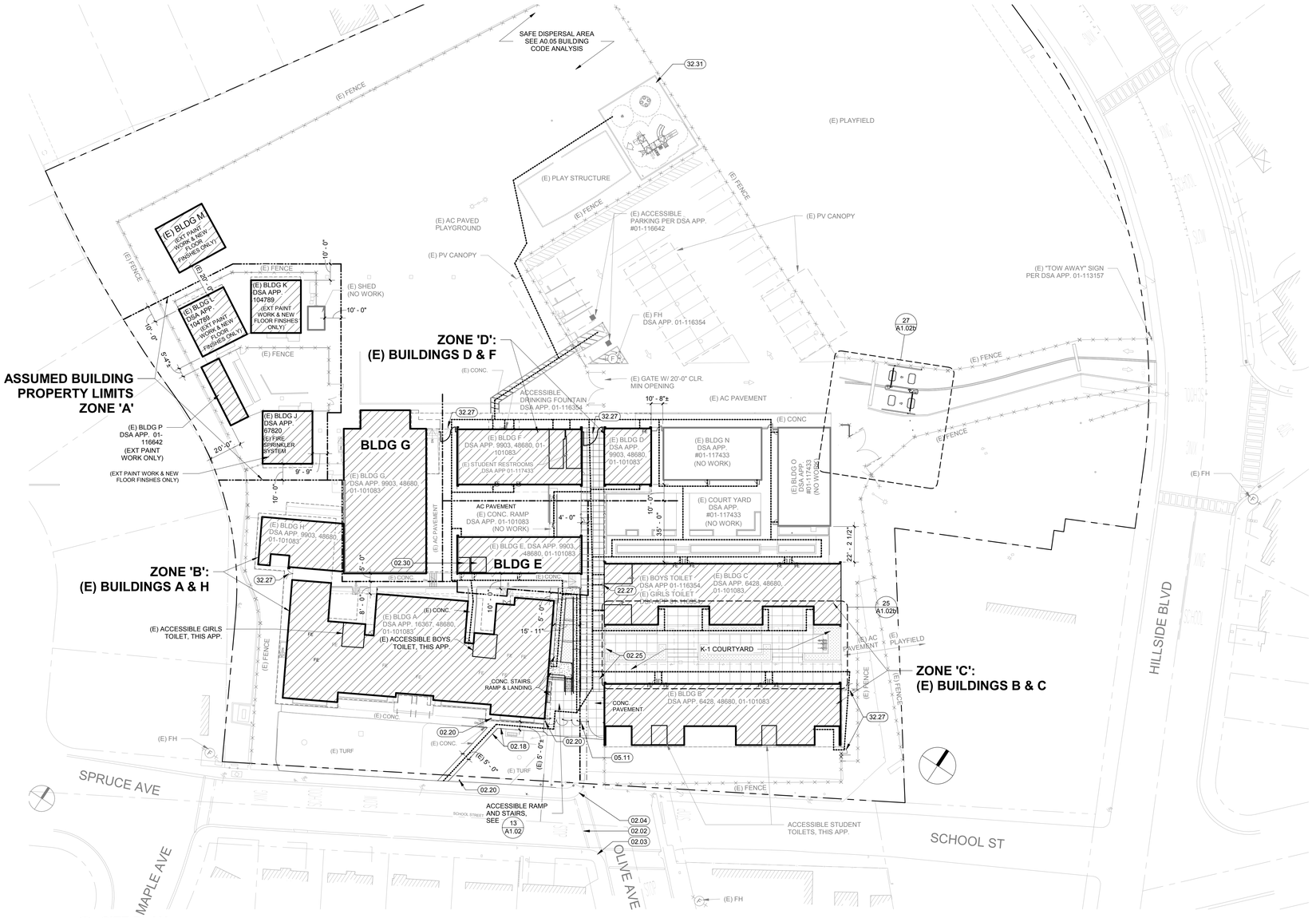
TOTAL SPACES: 39
ACCESSIBLE: 2 (1 VAN & 1 AUTO)
ACCESS. REQ.: 1 (PER TABLE 11B-208.2 FOR 26-50 SPACES)

LEGEND

- EXISTING BUILDING - NO WORK
- MODERNIZATION WORK UNDER THIS APPLICATION
- CONCRETE RAMP AND STAIRS
- (E) COVERED WALK
- ASSUMED EXISTING 2-HR RATED ASSEMBLIES PER RECORD DRAWINGS
- ASSUMED EXISTING 1-HR RATED ASSEMBLIES PER RECORD DRAWINGS
- ACCESSIBLE PATH VERIFIED AND/OR UPGRADED
- ASSUMED PROPERTY LINE
- ASSUMED IMAGINARY LINE, PER CBC SECTION 705.3
- (E) FIRE HYDRANT

KEYNOTES

02.02 EXISTING CROSSWALK
02.03 EXISTING ACCESSIBLE CURB CUT WITH TRUNCATED DOMES PER CBC SECTIONS 11B-406 AND 11B-705.
02.04 EXISTING CURB CUT
02.18 (E) ACCESSIBLE PATH PER DSA APP 01-116354.
02.20 (E) ACCESSIBLE DIRECTIONAL SIGNAGE PER DSA APP 01-116354.
02.25 (E) COVER WALKWAY W/ >50% OPENING PER CBC 3104.5.3.
02.30 (E) STAFF RESTROOM FIXTURES AND FINISHES UPGRADE.
05.11 GATE. SEE SHEET A1.06.
22.27 (N) BOTTLE FILLER @ (E) ACCESSIBLE DRINKING FOUNTAIN, SEE DETAILS 19 & 30/ A9.01 AND SPD.
32.27 CHAIN LINK FENCING AND GATE
32.31 KINDER PLAY STRUCTURE, S.L.D.



1 SITE PLAN
1" = 30'-0"

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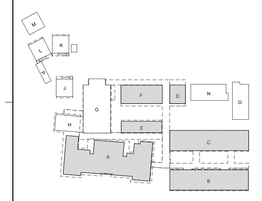
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Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
SITE PLAN - ACCESSIBILITY & CODE ANALYSIS

Client Project Number: Client Proj. #

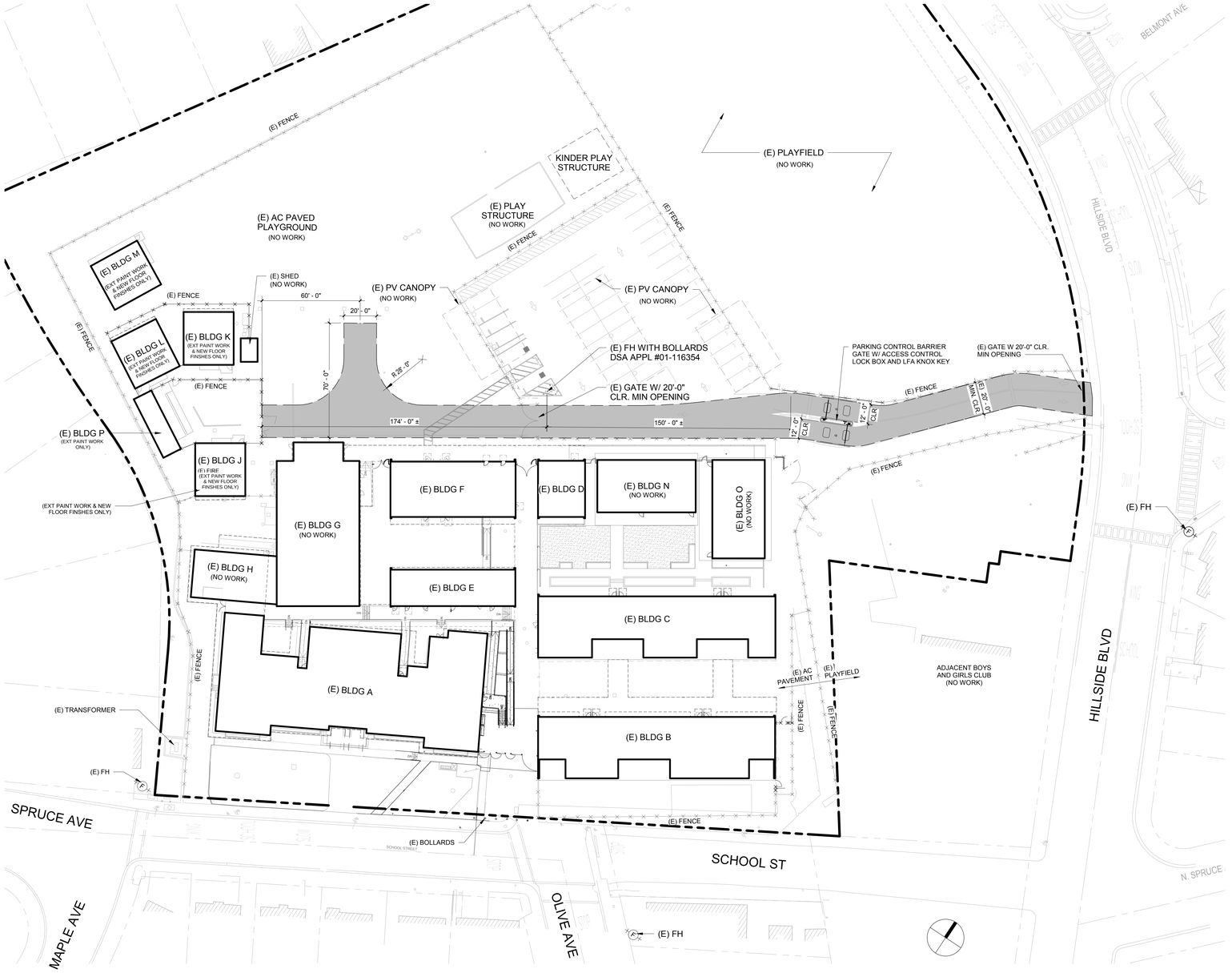
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Issue Date: 03/11/19
Revit Version: 2017

Sheet
A0.03

3/11/2019 11:14:58 AM C:_Revit Locals\4539_Martin ES_SouthSF\USD_R17_Phase II_oahn@hy-arch.com.rvt

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY



1 SITE PLAN
1" = 30'-0"

GENERAL

1. SEE A0.03 SITE PLAN - SITE PLAN - ACCESSIBILITY & CODE ANALYSIS.

LEGEND

- EXISTING BUILDING
- (E) EMERGENCY VEHICLE ACCESS ROUTE PER DSA APP. #01-117433. SEE SHEET REF_A0.03 SITE PLAN - FIRE LIFE SAFETY.
- ASSUMED PROPERTY LINE
- FENCE
- (E) FIRE HYDRANT

LFA REVIEW FORM

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1–3 below is to be provided for all project types indicated above. Information associated with items 4–7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being requested.

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 *and* 2 are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy 09-01.

PROJECT INFORMATION	
School District/Owner:	South San Francisco Unified School District
Project Name/School:	Martin Elementary School
Project Address:	35 School Street, South San Francisco, CA 94080

FIRE & LIFE SAFETY INFORMATION					
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☐		No ☐	
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☐	
3.	Is the project located within a designated fire hazard severity zone as established by Cal-Fire? *(If yes, indicate fire hazard zone classification below)*	Yes ☐		No ☐	
	Refer to the following for fire hazard zone locations: www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps	Moderate ☐	High ☐	Very High ☐	
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐	

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

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

School District Acceptance of Acceptable Design Alternates

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

Accepted by: CRAIG LUSTENBERGER | Title: FIRE MARSHAL

Signature: Craig Lustenberger | Date: FEBRUARY 22, 2019

LOCAL FIRE AUTHORITY (LFA) INFORMATION			
LFA Agency Name:	South San Francisco Fire Department		
LFA Review Official:	Craig Lustenberger		
Title:	Fire Marshal	Work Phone:	650-829-3950
Work E-mail:	craig.lustenberger@ssf.net		

LFA Reviewer's Signature: _____ Date: _____

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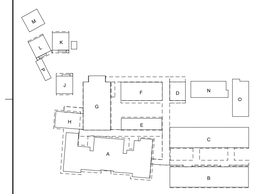
Revisions

No.	Revisions	By	Date	Appr.

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03/11/2019

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Architect/Engineer Of Record: _____

LICENSED ARCHITECT ALEXIS A. HIBSER C-27352 01-31-2021 RENEWAL DATE STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
SITE PLAN - FIRE LIFE SAFETY

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: OA
Checked By: CD
Issue Date: 02/08/19
Revit Version: 2017

Sheet
A0.04

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GENERAL NOTES

1. SEE THE FOLLOWING SHEETS FOR ADDITIONAL IINFORMATION:
   A. A0.03 SITE PLAN - ACCESSIBILITY AND CODE ANALYSIS.
   B. A0.04 SITE PLAN - FIRE LIFE & SAFETY
2. SEE SHEET A9.05 FOR RATED WALL TYPES.

LEGEND

ROOM TAG:

STAFF WORKROOM
608
100 | 48
A | 1
936 SF

- LOAD FACTOR PER TABLE 1004.1.2
- OCCUPANCY GROUP
- AREA (SF)
- ROOM NUMBER
- # OF OCC.
- # OF EXITS

DOOR TAG:

0.2 | 100
20"
72"

- EGRESS WIDTH PER PERSON (INCHES) - 0.3 FOR STAIRWAYS
- REQUIRED WIDTH
- ACTUAL WIDTH
- TOTAL OCCUPANTS SERVED

EGRESS ROUTE TO PUBLIC WAY. SEE A1.06 FOR FURTHER RATED 2-HOUR WALL) NEW AND EXISTING GATES.

RATED 1-HOUR WALL

NON-RATED WALL

TO SAFE DISPERSAL AREA
SEE SHEET A0.03 CODE ANALYSIS

(E) AC PAVED PLAY YARD

(E) GATE W/ 20'-0" CLR. MIN OPENING

(E) WHITE PAINTED STRIPING

(E) BLDG J
(NO WORK)

(E) BLDG G
(NO WORK)

(E) BLDG H
(NO WORK)

(E) 2 HOUR CONSTRUCTION

(E) RSP
F14
20 | 44
E | 1
571 SF

(E) CLASSROOM
F13
20 | 46
E | 1
892 SF

(E) BUILDING D STAFF LOUNGE
D14
20 | 45
E | 1
881 SF

(E) BLDG N
(NO WORK)

(E) BLDG O
(NO WORK)

(E) COURTYARD
(NO WORK)

31' - 9"

(E) CONC. RAMP (NO WORK)

1' - 12"

19' - 0"

22' - 9 3/8"

(E) PRINCIPAL'S OFFICE
E01
100 | 3
B | 1
310 SF

(E) GENERAL OFFICE
E05
100 | 5
B | 1
427 SF

(E) OFFICE
E07
100 | 3
B | 1
217 SF

(E) SPECIAL STUDIES
E09
20 | 16
E | 1
318 SF

(E) STAFF TOILET E02

(E) STAFF TOILET E03

(E) STO E06

(E) CLASSROOM 8
C01
20 | 46
E | 2
927 SF

(E) CLASSROOM 7
C02
20 | 46
E | 2
928 SF

(E) CLASSROOM 6
C03
20 | 46
E | 2
928 SF

(E) CLASSROOM 5
C04
20 | 46
E | 2
925 SF

(E) CLASSROOM
A22
20 | 40
E | 1
806 SF

(E) ART THERAPY
A17
20 | 7
E | 1
140 SF

(E) CLASSROOM
A21
20 | 45
E | 1
886 SF

(E) CLASSROOM
A20
20 | 43
E | 1
886 SF

(E) MECH A08

(E) CLASSROOM
A19
20 | 41
E | 1
841 SF

(E) GIRLS TOILET A15

(E) BOYS TOILET A09

(E) STOR A07

3/4" / 12"

1" / 12"

1/2" / 12"

(E) CLASSROOM
A18
20 | 44
E | 1
882 SF

(E) CLASSROOM
A17
20 | 37
E | 1
734 SF

(E) SPEECH THERAPY
A23
20 | 7
E | 1
141 SF

(E) CLASSROOM
A16
20 | 37
E | 1
734 SF

(E) CLASSROOM
A15
20 | 44
E | 1
875 SF

(E) CLASSROOM 4
B04
20 | 44
E | 1
868 SF

(E) CLASSROOM 3
B03
20 | 44
E | 1
877 SF

(E) CLASSROOM 2
B02
20 | 47
E | 1
847 SF

(E) STORAGE

(E) CLASSROOM 1
B01
20 | 61
E | 2
1246 SF

STUDENT TOILET 2

STUDENT TOILET 1

3' - 6" CLR GATE

3' - 0" CLR GATE

EXIT TO PUBLIC SIDEWALK

EXIT TO PUBLIC SIDEWALK

EXIT TO PUBLIC SIDEWALK

EXIT TO PUBLIC SIDEWALK

DN

1 BUILDING CODE ANALYSIS

3/32" = 1'-0"

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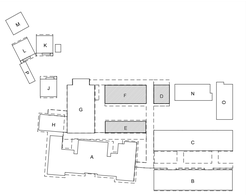
Revisions

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Architect/Engineer Of Record: ____

LICENSED ARCHITECT
MARCUS A. HIBSER
C-27362
01-31-2021
RENEWAL DATE
STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
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510.446.2222 tel ¦ 510.446.2211 fax

HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

BUILDING CODE ANALYSIS

Client Project Number: Client Proj. #

Scale: 3/32" = 1'-0"
Drawn By: OA
Checked By:CD
Issue Date: 03/11/19
Revit Version: 2017

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A0.05

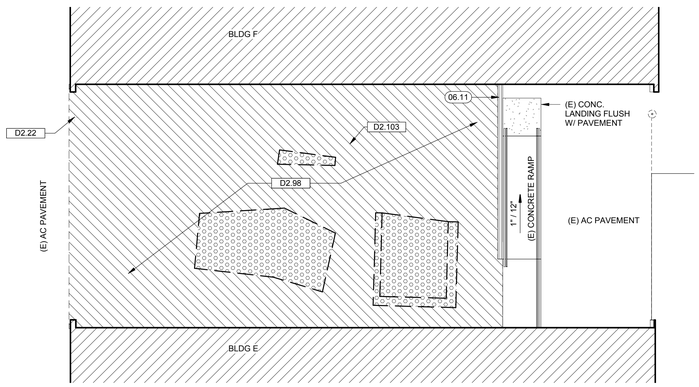
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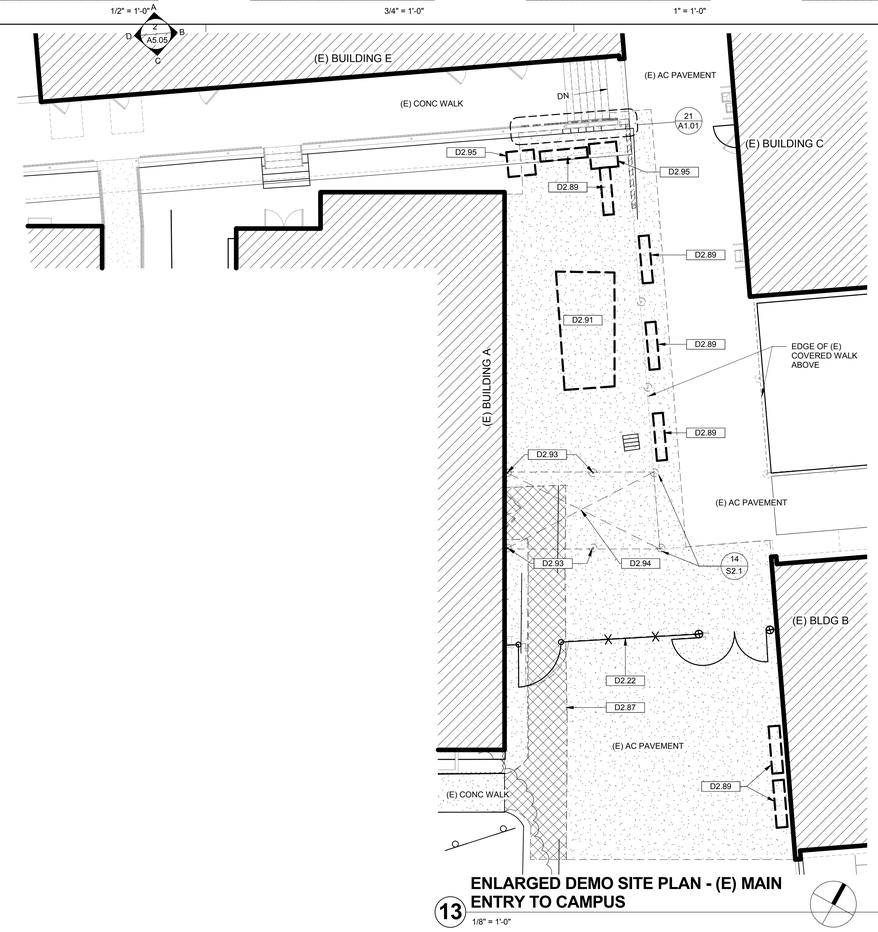
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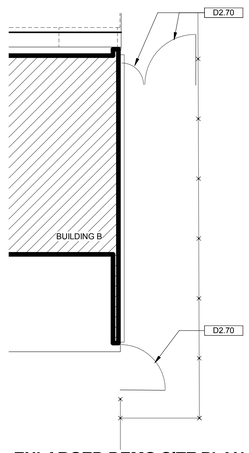
21 ENLARGED DEMO SITE PLAN - GUARD RAIL
1/4" = 1'-0"



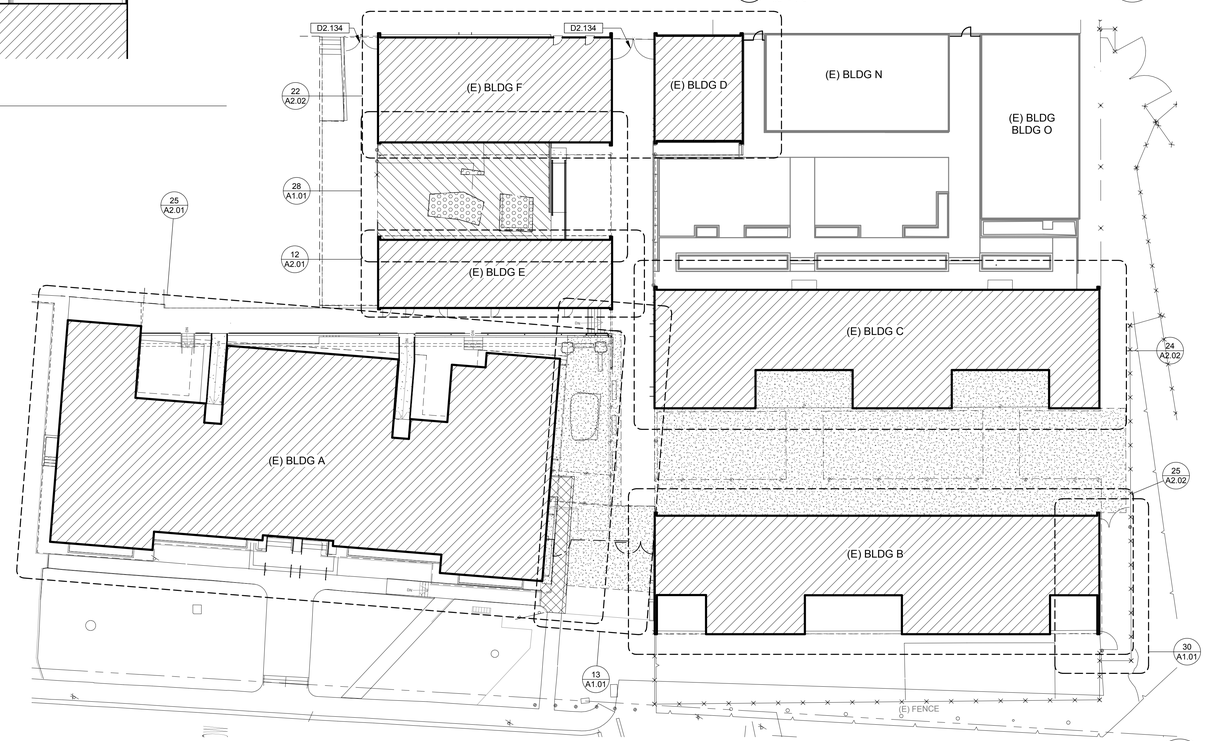
28 ENLARGED DEMO SITE PLAN - (E) PLAY AREA
1/8" = 1'-0"



13 ENLARGED DEMO SITE PLAN - (E) MAIN ENTRY TO CAMPUS
1/8" = 1'-0"



30 ENLARGED DEMO SITE PLAN - GATES @ KINDER ROOMS
1/8" = 1'-0"



25 SITE DEMOLITION PLAN
1" = 20'-0"

GENERAL NOTES

1. SEE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM AND CIVIL DRAWINGS FOR ADDITIONAL SITE DEMO WORK.
2. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS PRIOR TO START OF CONSTRUCTION.
3. PATCH AND REPAIR WALLS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
4. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK.
5. ALL ITEMS TO BE REMOVED MUST BE VERIFIED AND REVIEWED ON SITE BY THE CONTRACTOR.

DEMO KEYNOTES DEMO

D2.22 REMOVE (E) CHAIN LINK FENCING, GATES AND ASSOCIATED FOOTINGS. FILL VOID W/ NATIVE SOIL TO 80% COMPACTION.
D2.70 REMOVE (E) GATE. POST TO REMAIN.
D2.87 REMOVE (E) CONC. WALKWAY, SEE CIVIL AND LANDSCAPE DRAWINGS
D2.89 REMOVE (E) BENCH AND ASSOCIATED (E) CONC. FOOTINGS.
D2.91 REMOVE (E) RAISED PLANTER BED. PROTECT AND STORE (E) PLAQUE AND CONC BASE FOR REINSTALLATION. NEW LOCATION TO BE AGREED BY SCHOOL.
D2.93 REMOVE (E) STEEL PIPE COLUMNS AND ASSOCIATED FOOTINGS. TYP. OF (4).
D2.94 PROTECT (E) STRUCTURE WHEN REMOVING (E) PORTION OF COVERED WALK.
D2.95 PROTECT AND STORE WHEN REMOVING (E) PLANTER BOXES AND STORE DURING CONSTRUCTION. NEW LOCATION TO BE AGREED BY DISTRICT.
D2.98 REMOVE (E) CONC. FORMWORK, FOUNTAIN, AC PAVEMENT, SYNTHETIC TURF, AND SYNTHETIC PLAY SURFACE DOWN TO SUB-BASE IN PREPARATION FOR AC PAVEMENT.
D2.103 REMOVE (E) GRATE, SALVAGE AND PROTECT (E) DRAIN PIPE
D2.134 REMOVE (E) GATE FOR REPLACEMENT.

EXISTING KEYNOTES

06.11 (E) WOOD FENCE TO REMAIN

LEGEND

- MODERNIZATION WORK UNDER THIS APPLICATION
- (E) COVERED WALK
- REMOVE (E) AC PAVEMENT AND SUBGRADE, SEE CIVIL DRAWINGS
- REMOVE (E) CONC WALKWAY, SEE CIVIL DRAWINGS
- REMOVE (E) SYNTHETIC TURF, AC PAVEMENT AND SYNTHETIC PLAY SURFACE DOWN TO SUB-BASE
- REMOVE (E) CONC. FORMWORK
- ASSUMED PROPERTY LINE

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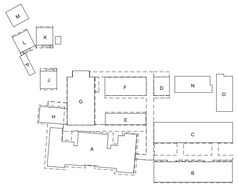
Revisions

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LICENSED ARCHITECT MARTIN A. HIBSER C-27352 01-31-2021 RENEWAL DATE STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel ¦ 510.446.2211 fax

HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
SITE DEMOLITION PLANS

Client Project Number: ____ Client Proj. # ____

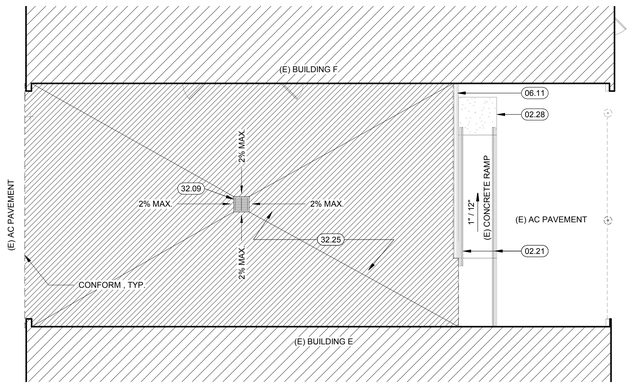
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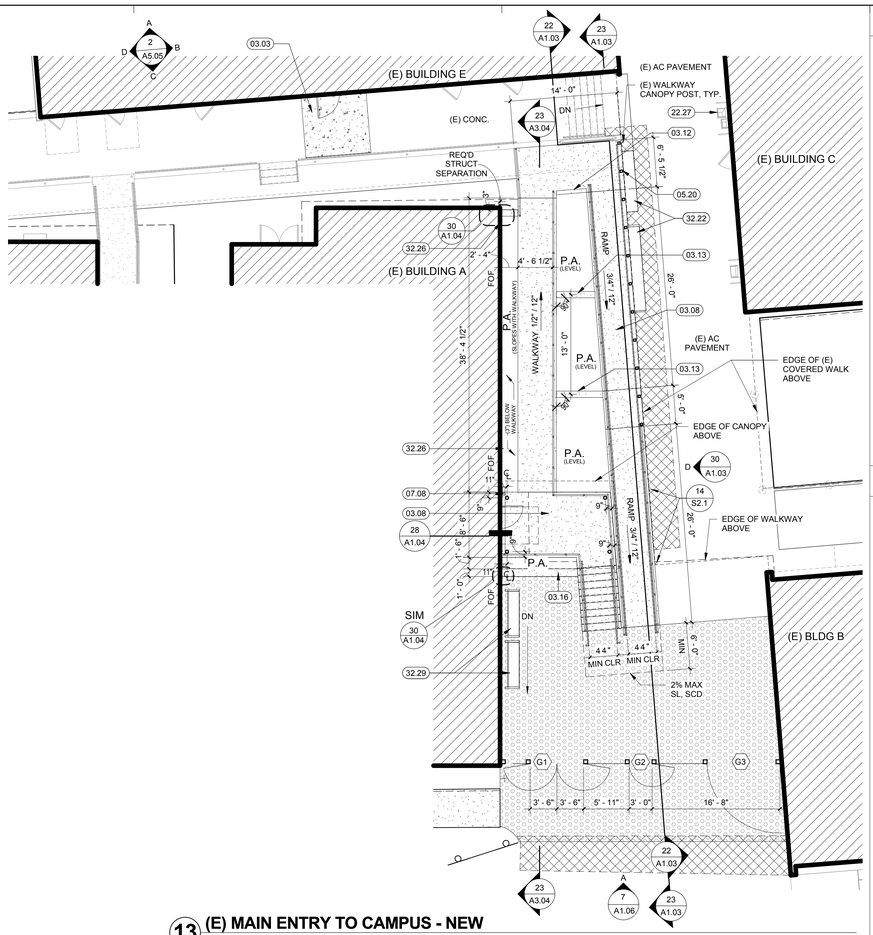
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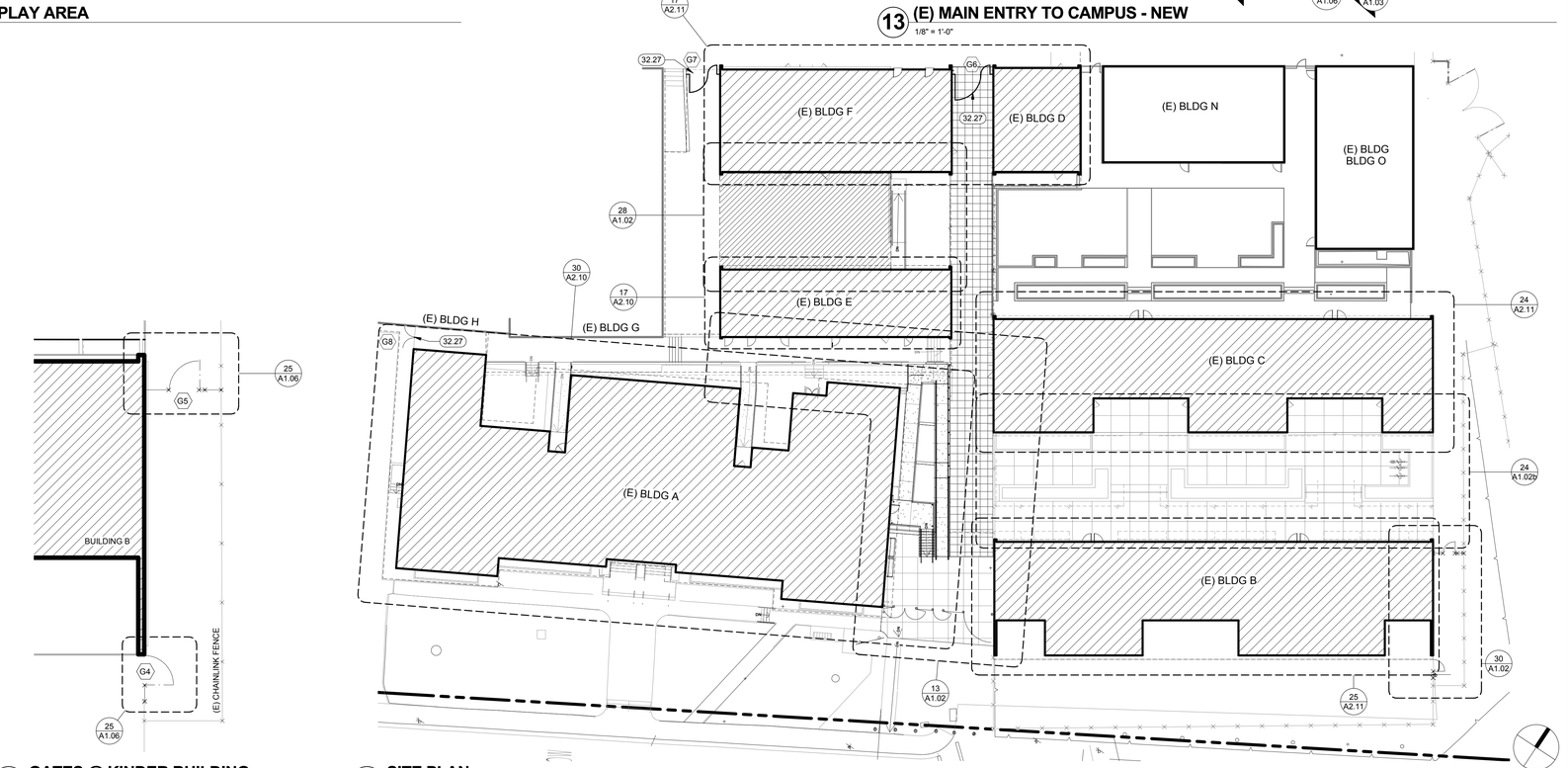
28 ENLARGED SITE PLAN - PLAY AREA

1/8" = 1'-0"



13 (E) MAIN ENTRY TO CAMPUS - NEW

1/8" = 1'-0"



30 GATES @ KINDER BUILDING

1/8" = 1'-0"

25 SITE PLAN

1" = 20'-0"

GENERAL NOTES

1. FOR ADDITIONAL INFORMATION AND COORDINATION.
   A. SHEET A0.03 FOR SITE PLAN - ACCESSIBILITY & CODE ANALYSIS
   B. SHEET A0.04 FOR SITE PLAN - FIRE LIFE SAFETY
   C. SHEET A0.05 FOR BUILDING CODE ANALYSIS
2. SEE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM, CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL SITE COORDINATION.
3. PAINT ALL EXPOSED CONDUITS AND JUNCTION BOXES TO MATCH (E) ADJACENT. REFER TO ELECTRICAL AND FIRE ALARM DRAWINGS FOR LOCATION AND EXTENT OF WORK.
4. EXISTING ACCESSIBLE ROUTES TO ALL FACILITIES AND BUILDINGS THAT ARE OPERATIONAL DURING CONSTRUCTION PHASE SHALL REMAIN UNOBSTRUCTED, SAFE AND USABLE BY PERSONS WITH DISABILITIES.
5. THERE ARE NO EXISTING PUBLIC TRANSPORTATION STOPS ON SITE.
6. THERE ARE NO EXISTING PASSENGER DROPOFF / LOADING ZONES ON SITE.
7. PATCH AND REPAIR WALLS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.

KEYNOTES

02.21	(E) HANDRAIL TO REMAIN
02.28	(E) CONC. LANDING, FLUSH W/ (E) AC PAVEMENT, TO REMAIN.
03.03	NEW LANDING, SEE CIVIL DRAWINGS
03.08	CONCRETE WALKWAY, RAMPS, STAIRS, AND LANDINGS, SEE STRUCTURAL DRAWINGS, SEE CIVIL DRAWINGS, SEE LANDSCAPE DRAWINGS.
03.12	CONC. CURB WHEEL GUARD. 6IN HIGH x 6IN WIDE INTEGRAL TO CONC LANDING.
03.13	10" WIDE CONC BERM PLANTING AREA DIVIDER. INTEGRAL TO CONC LANDING. SET TOP 2IN BELOW ADJACENT RAMP SURFACE.
03.16	CONC SEAT WALL, SLD.
05.20	HSS POSTS @ 4'-0" OC, SEE STRUCTURAL DRAWINGS.
06.11	(E) WOOD FENCE TO REMAIN
07.08	RAIN WATER LEADER, SEE 7/A8.01. SEE CIVIL DRAWINGS
22.27	(N) BOTTLE FILLER @ (E) ACCESSIBLE DRINKING FOUNTAIN, SEE DETAILS 19 & 30/ A9.01 AND SPD.
32.09	CONNECT NEW CATCH BASIN TO (E) DRAIN. SEE 11/C3
32.22	CANTILEVER BENCH, SEE DETAIL 20/A1.05.
32.25	AC PAVEMENT. 3" AC ON 8" CLASS 2 AB ON 8" RECOMPACTED SUBGRADE (95%)
32.26	(E) GUTTER, SEE CIVIL DRAWINGS FOR NEW CONNECTION
32.27	CHAIN LINK FENCING AND GATE
32.29	6' - 0" LONG BENCH

LEGEND

- EXISTING BUILDING - NO WORK
- INTERIOR SCOPE UNDER THIS APPLICATION
- NEW CONCRETE RAMP AND STAIRS
- NEW CONCRETE PAVEMENT, SEE CIVIL DRAWINGS
- NEW AC PAVEMENT, SEE CIVIL DRAWINGS
- ACRYLIC PAVEMENT COATING SYSTEM. SEE LANDSCAPE DRAWINGS FOR PATTERN AND COLOR.
- ASSUMED PROPERTY LINE
- (E) FIRE HYDRANT
- 01 GATE MARK, SEE SHEET A1.06 FOR SCHEDULE

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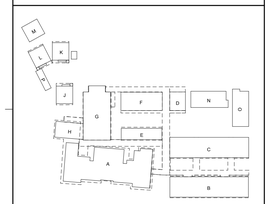
Revisions

No.	Revisions	By	Date	Appr.

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LICENSED ARCHITECT ARGUS A. HIBSER C-27362 01-31-2021 RENEWAL DATE STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

OVERALL AND ENLARGED SITE PLANS

Client Project Number: Client Proj. #

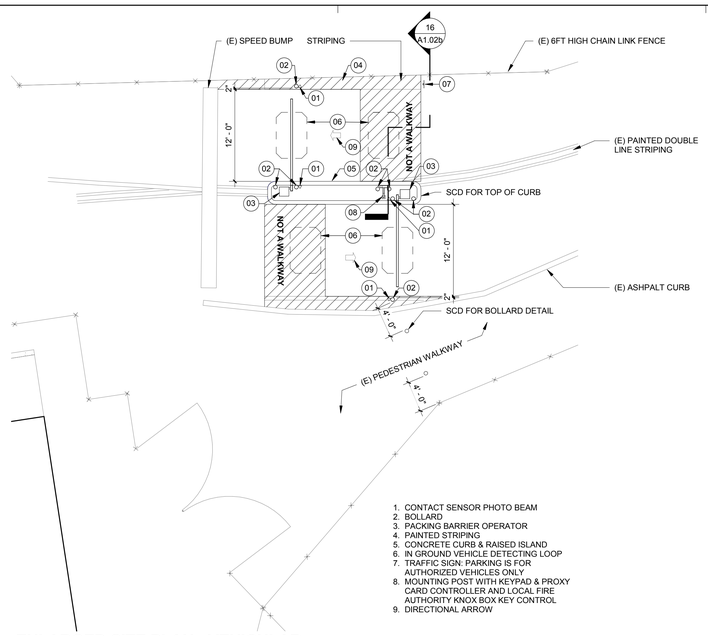
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Issue Date: 03/11/19
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3/11/2019 11:15:28 AM C:_Revit Locals\4539_Martin ES_SouthSFUSD_R17_Phase II_oahn@hy-arch.com.rvt

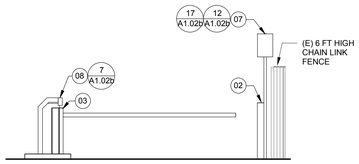
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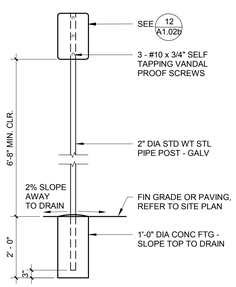


1. CONTACT SENSOR PHOTO BEAM
2. BOLLARD
3. PACKING BARRIER OPERATOR
4. PAINTED STRIPING
5. CONCRETE CURB & RAISED ISLAND
6. IN GROUND VEHICLE DETECTING LOOP
7. TRAFFIC SIGN: PARKING IS FOR AUTHORIZED VEHICLES ONLY
8. MOUNTING POST WITH KEYPAD & PROXY CARD CONTROLLER AND LOCAL FIRE AUTHORITY KNOX BOX KEY CONTROL
9. DIRECTIONAL ARROW

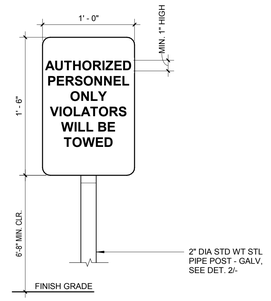
27 ENLARGED SITE PLAN - VEHICULAR GATE ACCESS
1/8" = 1'-0"



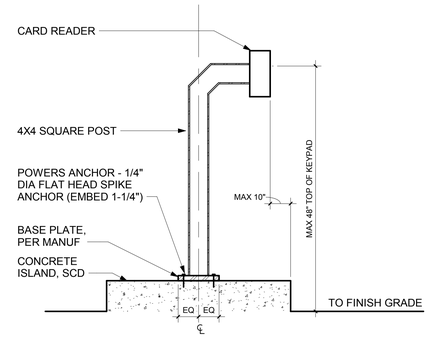
16 VEHICULAR GATE
1/4" = 1'-0"



17 TYP. SIGN POST AND FOOTING
1/2" = 1'-0"

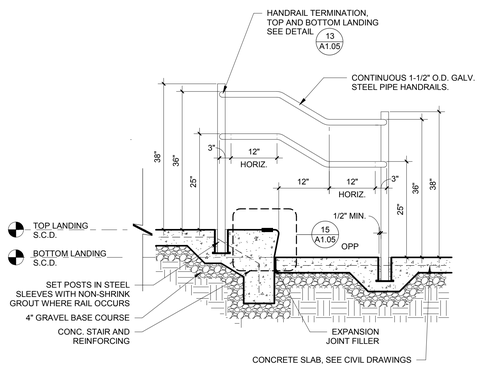


12 SIGN
1 1/2" = 1'-0"

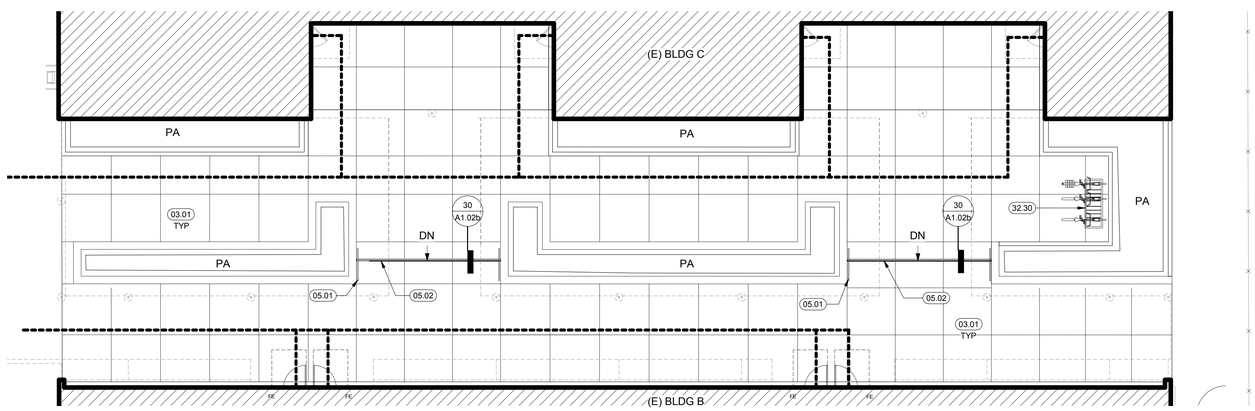


7 CARD READER POST
1" = 1'-0"

24 ENLARGED DEMO SITE PLAN -K-1 COURTYARD
1/8" = 1'-0"



30 TYP. STAIR SECTION
3/4" = 1'-0"



25 ENLARGED SITE PLAN -K-1 COURTYARD
1/8" = 1'-0"

LEGEND

- MODERNIZATION WORK UNDER THIS APPLICATION
- (E) COVERED WALK
- REMOVE (E) AC PAVEMENT AND SUBGRADE, SEE CIVIL DRAWINGS
- ACCESSIBLE PATH VERIFIED AND/OR UPGRADED

GENERAL NOTES

1. FOR ADDITIONAL INFORMATION AND COORDINATION.
   A. SHEET A0.03 FOR SITE PLAN - ACCESSIBILITY & CODE ANALYSIS
   B. SHEET A0.04 FOR SITE PLAN - FIRE LIFE SAFETY
   C. SHEET A0.05 FOR BUILDING CODE ANALYSIS
2. SEE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM, CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL SITE COORDINATION.
3. PAINT ALL EXPOSED CONDUITS AND JUNCTION BOXES TO MATCH (E) ADJACENT. REFER TO ELECTRICAL AND FIRE ALARM DRAWINGS FOR LOCATION AND EXTENT OF WORK.
4. EXISTING ACCESSIBLE ROUTES TO ALL FACILITIES AND BUILDINGS THAT ARE OPERATIONAL DURING CONSTRUCTION PHASE SHALL REMAIN UNOBSTRUCTED, SAFE AND USABLE BY PERSONS WITH DISABILITIES.
5. THERE ARE NO EXISTING PUBLIC TRANSPORTATION STOPS ON SITE.
6. THERE ARE NO EXISTING PASSENGER DROPOFF / LOADING ZONES ON SITE.
7. PATCH AND REPAIR WALLS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.

KEYNOTES

02.31 PROTECT (E) POSTS TO REMAIN, TYP.
03.01 CONCRETE WALK, S.C.D. & S.L.D.
05.01 1-1/2" O.D. GALV. STL PIPE HANDRAIL, TYP
05.02 MTL. STAIR NOSING WITH CONTRASTING COLOR, TYP
32.30 (RE) BIKE RACK, S.L.D.

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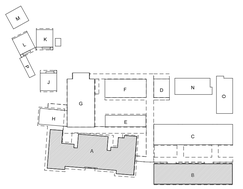
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300 – 27th Street
Oakland, CA 94612
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HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
ENLARGED SITE PLANS

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: OA
Checked By:CD
Issue Date: 03/11/19
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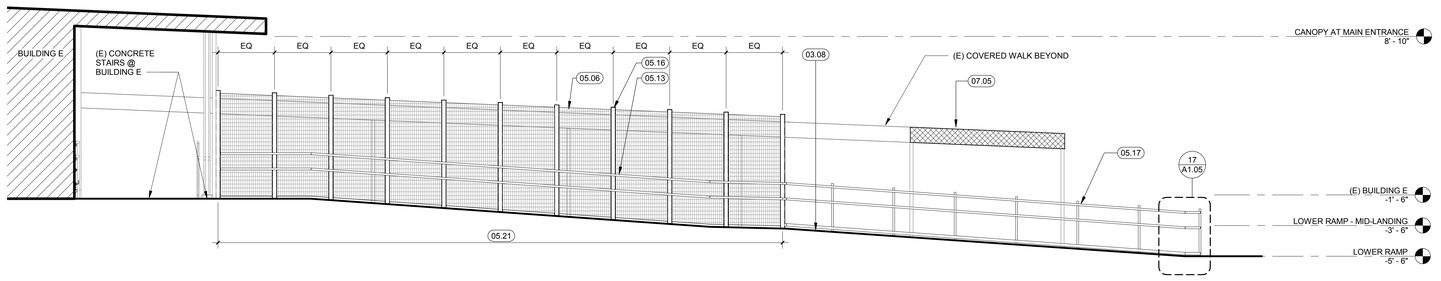
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0 5' 50' | 0 5' 25' | 0 1' 12' | 0 1' 6' | 0 4' | 0 1' 3' | 0 2' | 0 1'

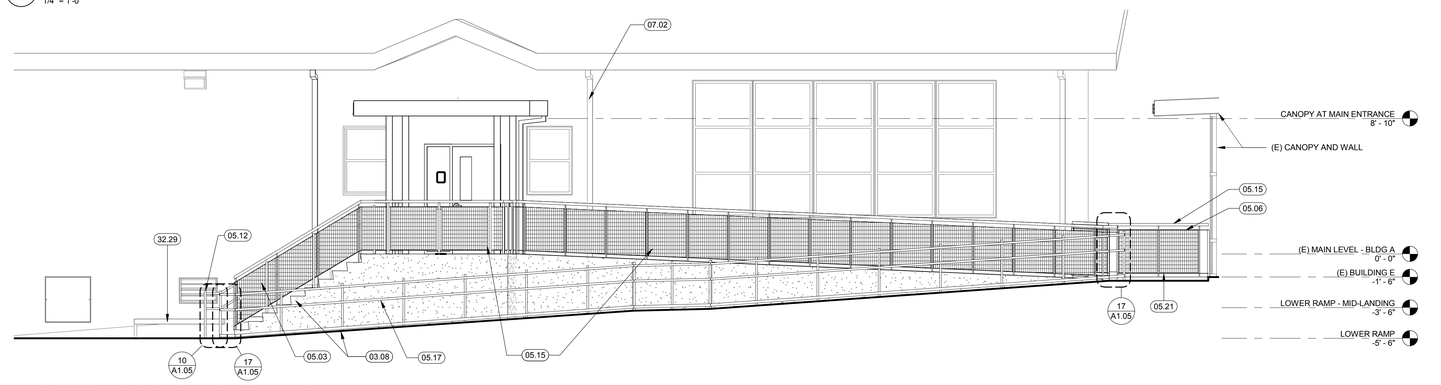
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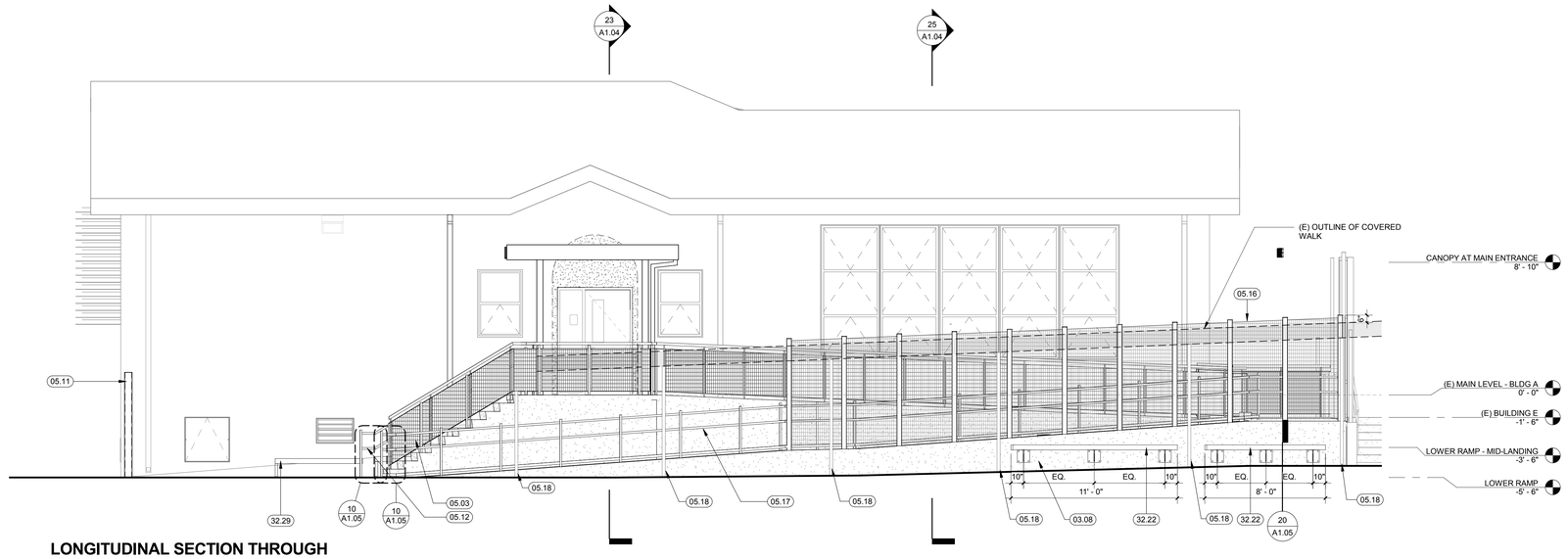
22 SECTION THROUGH LOWER RAMP

1/4" = 1'-0"



23 SECTION THROUGH LOWER RAMP, TOWARDS BUILDING A

1/4" = 1'-0"



30 LONGITUDINAL SECTION THROUGH LOWER RAMP

1/4" = 1'-0"

GENERAL NOTES

1. 1. SEE THE FOLLOWING SHEETS FOR ADDITIONAL INFORMATION:
   A3.01 EXTERIOR ELEVATIONS DEMO - BUILDING A
   A3.04 EXTERIOR ELEVATIONS NEW - BUILDING A
   A1.04 MAIN ENTRY TO CAMPUS - SECTIONS
2. SEE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM, CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL SITE COORDINATION.
3. PAINT ALL EXPOSED CONDUITS AND JUNCTION BOXES TO MATCH (E) ADJACENT. REFER TO ELECTRICAL AND FIRE ALARM DRAWINGS FOR LOCATION AND EXTENT OF WORK.
4. PATCH AND REPAIR WALLS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.

KEYNOTES

REMODEL

03.08 CONCRETE WALKWAY, RAMPS, STAIRS, AND LANDINGS. SEE STRUCTURAL DRAWINGS, SEE CIVIL DRAWINGS, SEE LANDSCAPE DRAWINGS.
05.03 42" HIGH GUARDRAIL AND HANDRAIL. SEE 7/A1.05
05.06 ORSOGRIL STEEL GRATING, POWDER COATED. SEE DETAILS 7 & 9/A1.05
05.11 GATE. SEE SHEET A1.06.
05.12 HANDRAIL AT STAIR. SEE 10/A1.05
05.13 GALVANIZED STEEL HANDRAILS MOUNTED TO GALVANIZED STEEL TUBES @ 4'-0" MAX. O.C. SEE 7/A1.05
05.15 GUARDRAIL, 42" HIGH, SEE 7/A1.05
05.16 3" X 3" X 3/8" GALVANIZED STEEL TUBE @ 4'-0" O.C. AND ORSOGRIL STEEL GRATING. TOP TO RUN PARALLEL 6" ABOVE ADJACENT (E) CANOPY. SEE 7/A1.05
05.17 HANDRAIL AND WHEEL GUARD, SEE 13/A1.05 AND 17/A1.05
05.18 (E) STEEL PIPE COLUMN. PAINT TO MATCH (E).
05.21 CONT EDGE PROTECTION PER DETAIL 7/A1.05.
07.02 WOOD FRAMED CANOPY, W/ BUILT-UP ROOFING, SEE 13 & 15/A8.01. SEE STRUCTURAL DRAWINGS
07.05 METAL FLASHING AND PATCHING OF (E) BUILT-UP ROOF. SEE A8.01. SEE STRUCTURAL DRAWINGS.
32.22 CANTILEVER BENCH, SEE DETAIL 20/A1.05.
32.29 6' - 0" LONG BENCH

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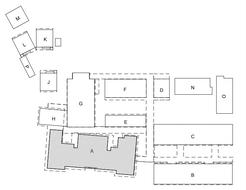
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Facility

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35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

MAIN ENTRY TO CAMPUS - SECTIONS

Client Project Number: Client Proj. #

Scale: 1/4" = 1'-0"
Drawn By: OA
Checked By:CD
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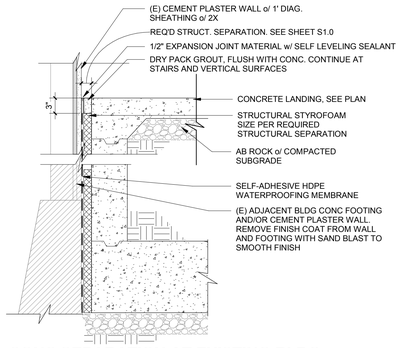
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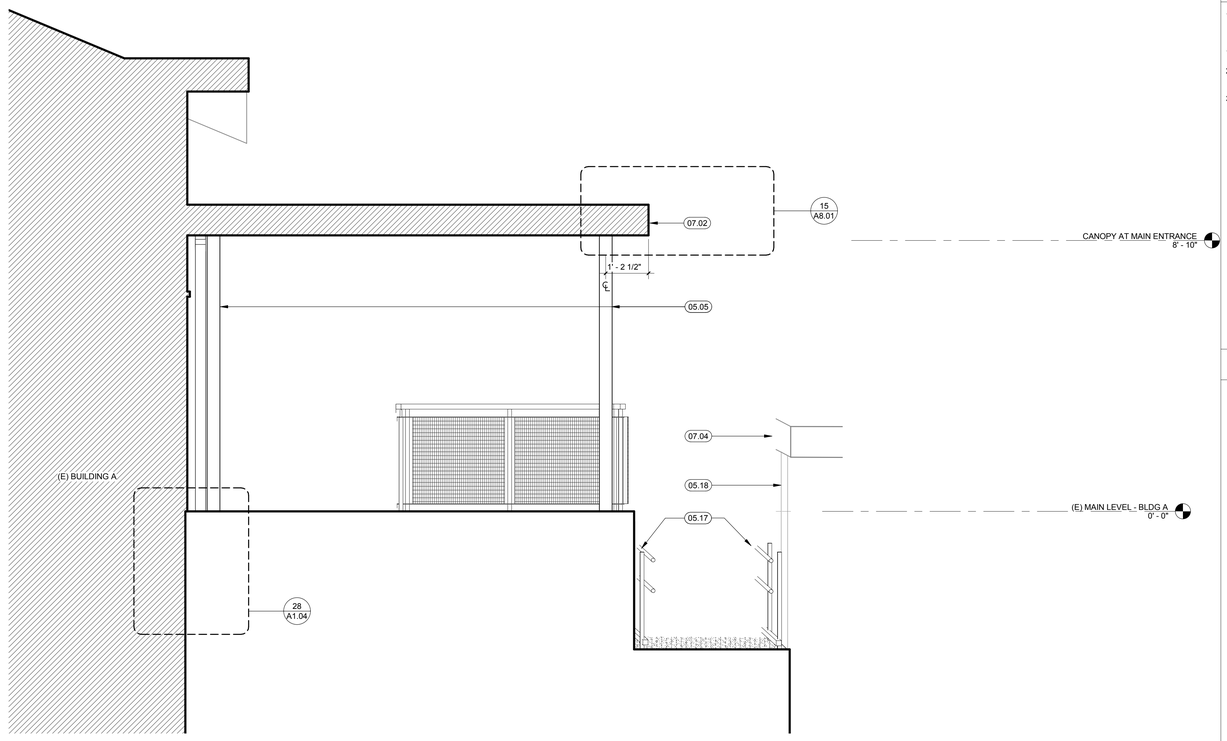
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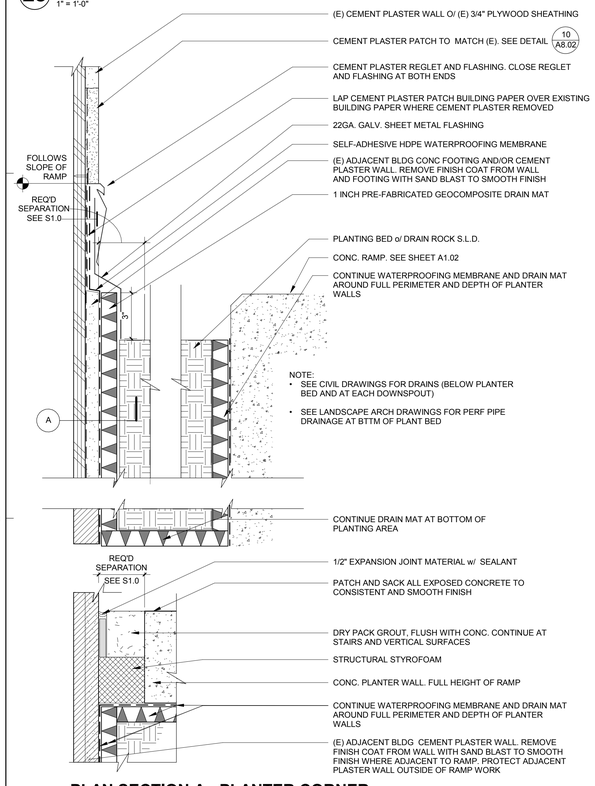
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28 CONC SEPARATION AT EXISTING BLDG
1" = 1'-0"

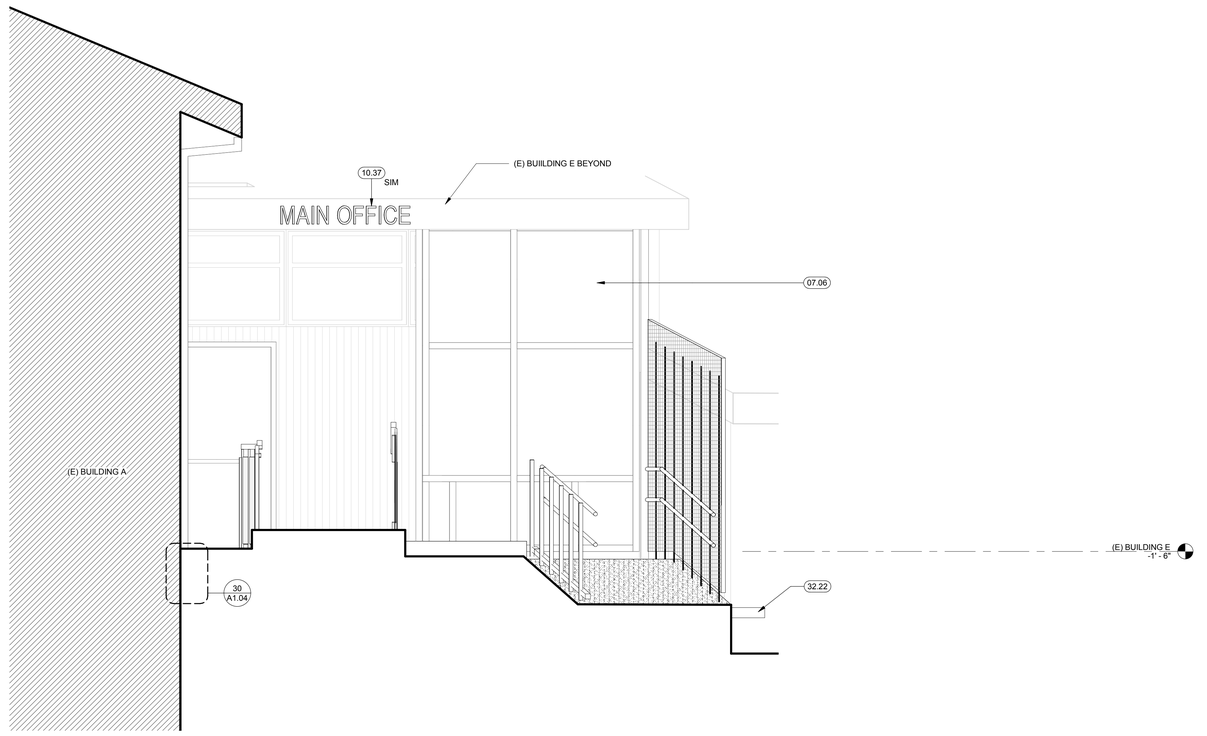


23 CROSS SECTION THROUGH STAIRS AND UPPER RAMP
1/2" = 1'-0"



PLAN SECTION A - PLANTER CORNER

30 NEW PLANTER @ EXISTING WALL
3" = 1'-0"



25 CROSS SECTION THROUGH UPPER AND LOWER RAMPS
1/2" = 1'-0"

GENERAL NOTES

1. SEE THE FOLLOWING SHEETS FOR ADDITIONAL INFORMATION:
   A3.01 EXTERIOR ELEVATIONS DEMO - BUILDING A
   A3.04 EXTERIOR ELEVATIONS NEW - BUILDING A
   A1.03 MAIN ENTRY TO CAMPUS - SECTIONS
1. SEE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM, CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL SITE COORDINATION.
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3. PATCH AND REPAIR WALLS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.

KEYNOTES

05.05 5" O.D. STEEL TUBE. PAINT TO MATCH (E). S.S.D.
05.17 HANDRAIL AND WHEEL GUARD, SEE 13/A1.05 AND 17/A1.05
05.18 (E) STEEL PIPE COLUMN. PAINT TO MATCH (E).
07.02 WOOD FRAMED CANOPY, W/ BUILT-UP ROOFING, SEE 13 & 15/A8.01. SEE STRUCTURAL DRAWINGS
07.04 (E) BUILT-UP ROOF
07.06 (E) WOOD FRAMED GLASS WALL TO REMAIN. PROTECT DURING CONSTRUCTION
10.37 FABRICATED CAST ALUMINUM LETTERS. 10"H X 1 1/2"D. SEE 15/ A8.01.
32.22 CANTILEVER BENCH, SEE DETAIL 20/A1.05.

LEGEND

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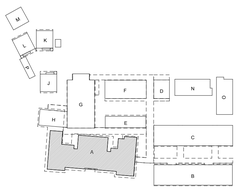
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Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
MAIN ENTRY TO CAMPUS - SECTIONS

Client Project Number: Client Proj. #

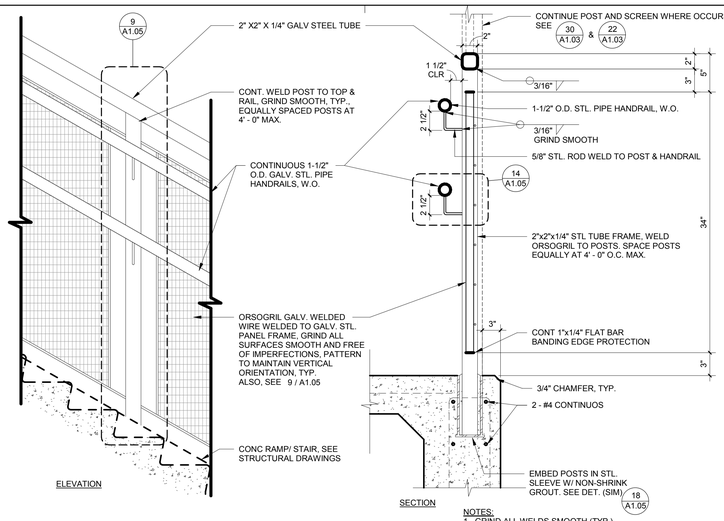
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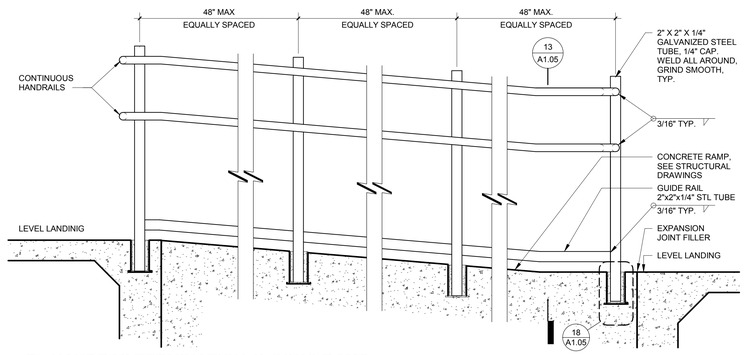
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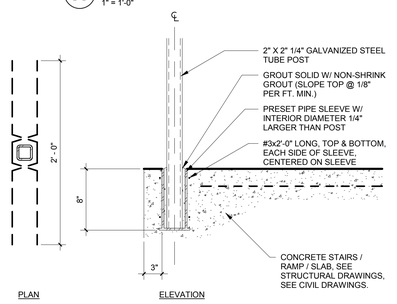


NOTES:
1. GRIND ALL WELDS SMOOTH (TYP.)
2. PRIME AND PAINT ALL EXPOSED STEEL GUARDRAIL AND HANDRAIL COMPONENTS.

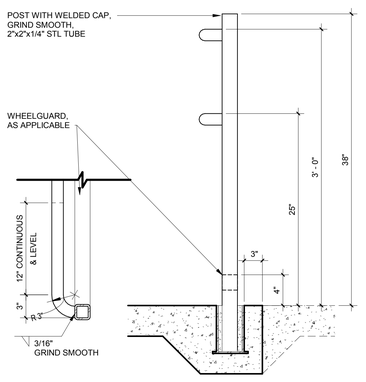
7 STEEL GUARD RAILING @ RAMP & STAIRS
1 1/2" = 1'-0"



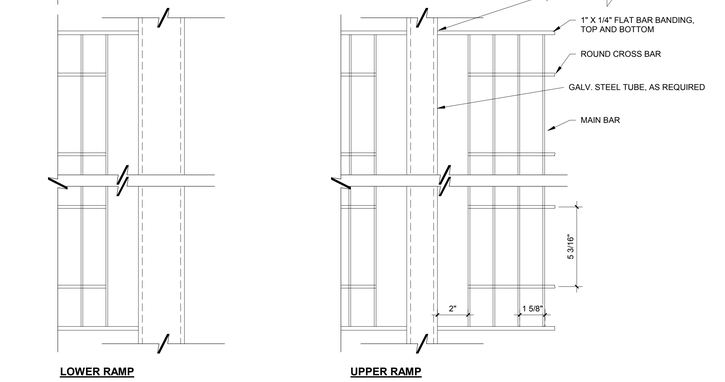
17 HANDRAILTERMINATION @ CONC RAMP
1" = 1'-0"



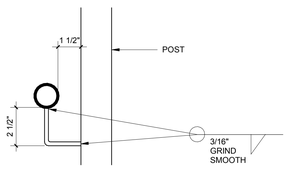
18 TYP. POST ANCHORAGE
1 1/2" = 1'-0"



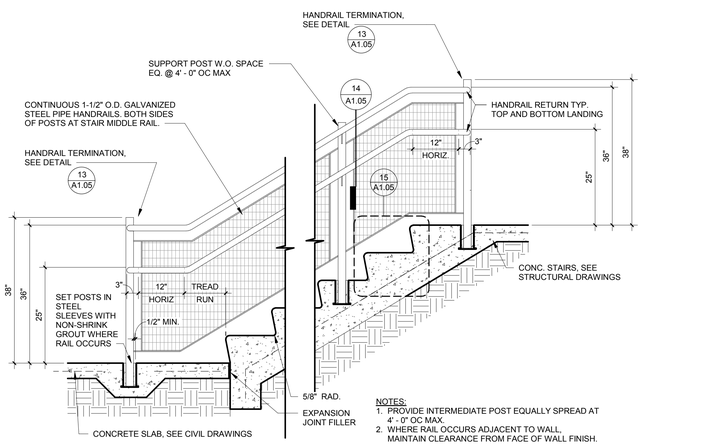
13 HANDRAIL TERMINATION @ STAIRS AND RAMP
1 1/2" = 1'-0"



9 ORSOGRIL ATTACHMENT
3" = 1'-0"

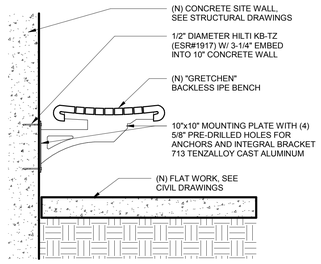


14 HANDRAIL BRACKET
3" = 1'-0"

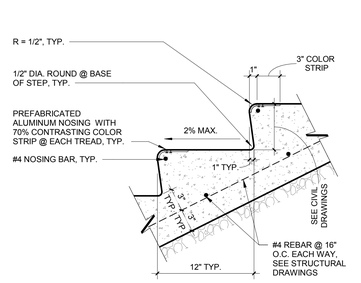


NOTES:
1. PROVIDE INTERMEDIATE POST EQUALLY SPREAD AT 4' - 0" OC MAX.
2. WHERE RAIL OCCURS ADJACENT TO WALL, MAINTAIN CLEARANCE FROM FACE OF WALL FINISH.

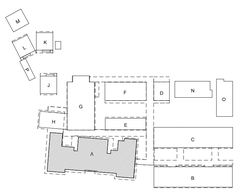
10 CONCRETE STEPS AND HANDRAIL
3/4" = 1'-0"



20 BRACKET MOUNTED EXTERIOR BENCH DETAIL
1" = 1'-0"



15 TYP. CONC. STEPS
1 1/2" = 1'-0"



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Architect/Engineer Of Record: _____

LICENSED ARCHITECT RAYMOND A. HIBSER C-27362 01-31-2021 RENEWAL DATE STATE OF CALIFORNIA

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Oakland, CA 94612
510.446.2222 tel ¦ 510.446.2211 fax

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Revisions

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DATE _____

HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
SITE DETAILS

Client Project Number: Client Proj. #

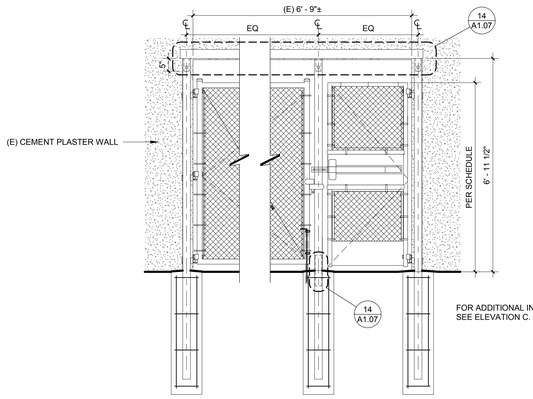
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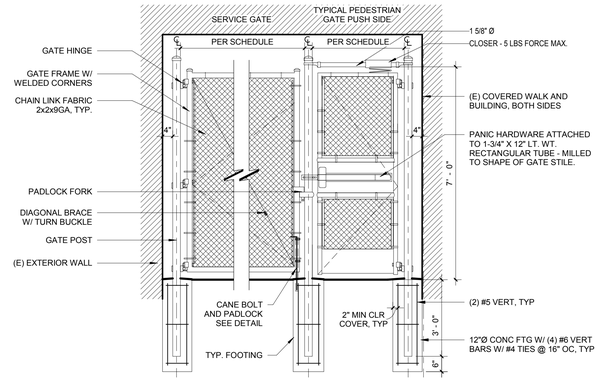
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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

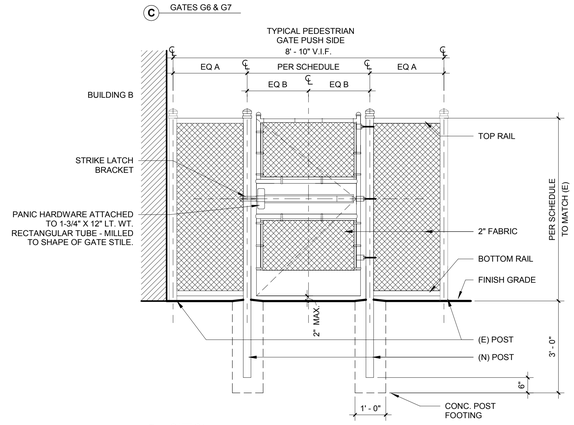
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D GATE G8



C GATES G6 & G7



CHAINLINK FENCE GATE NOTES:

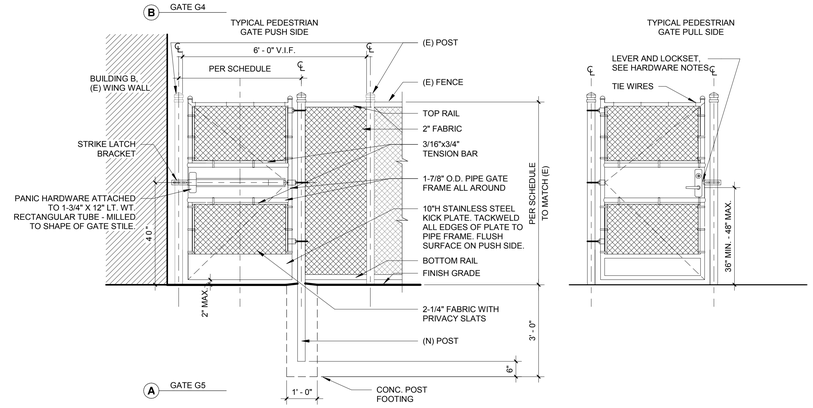
1. FABRIC SHALL BE ZINC COATED STEEL WIRE, COATED WITH 1.8 OUNCES OF ZINC PER SQUARE FOOT CONFORMING TO REQUIREMENTS IN ASTM A 392.
2. TOP AND BOTTOM SELVAGE SHALL HAVE TWISTED AND/OR KNUCKLED FINISH.
3. GATE POST: 3" O.D. DIA. ZINC COATING TO BE 1.8 OUNCES PSF SURFACE.
4. PIPE POSTS SHALL HAVE TOPS WHICH EXCLUDE MOISTURE.
5. END, CORNER, PULL, AND GATE POSTS SHALL HAVE BRACES WITH SAME MATERIAL AS TOP RAIL AND TRUSSED TO LINE POSTS WITH 3/8" RODS AND TIGHTENERS.
6. HINGES: GALVANIZED PRESSED STEEL OR MALLEABLE IRON TO SUIT GATE SIZE, NON LIFT-OFF TYPE, OFFSET TO PERMIT 180 DEGREE GATE OPENING.

HARDWARE NOTES

PEDESTRIAN GATE
HARDWARE:
VON DUPRIN 98L-2 X 996-17 AX MODEL
LOCKSET:
SCH 23-030 / VON DUPRIN CYLINDER TRIM

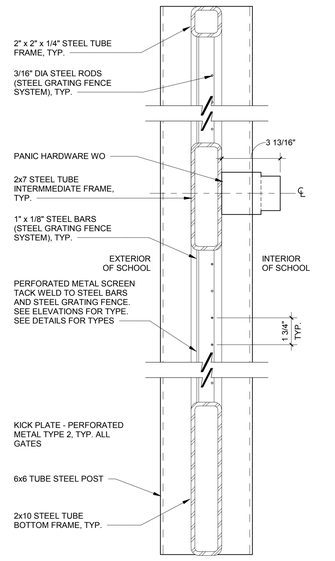
NOTE:
1. ADD WEEP HOLES TO PANIC ASSEMBLY PER MFR RECOMMENDATIONS
2. KEY LOCK PER DISTRICT CODE REQUIREMENTS

B GATE G4

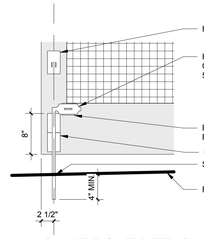


A GATE G5

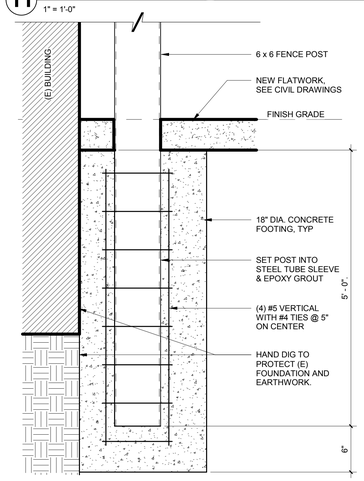
25 CHAIN LINK FENCE AND GATE DETAILS
1/2" = 1'-0"

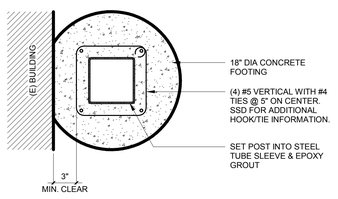


18 GATE SECTION
3" = 1'-0"

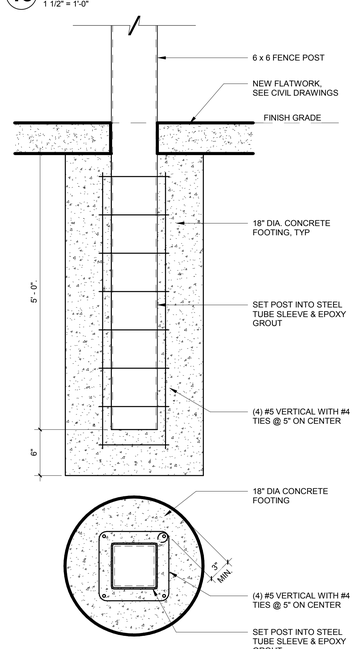


11 CANE BOLT DETAIL @ METAL GATE
1" = 1'-0"





13 POST FOOTING DETAIL ADJACENT TO (E) BUILDING
1 1/2" = 1'-0"



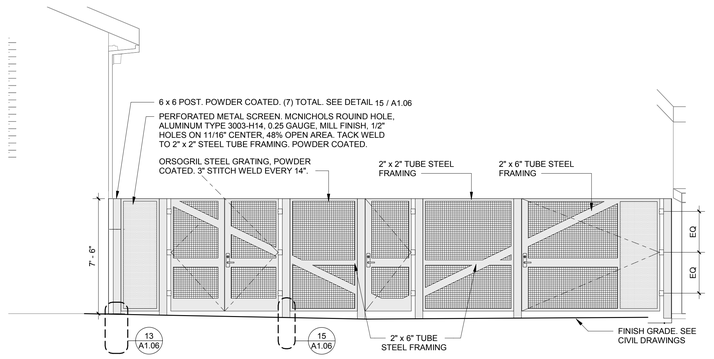
15 POST FOOTING DETAIL
1 1/2" = 1'-0"

GATE MARK	SIZE		TYPE	MODE	CANE BOLT (●)	LEVER HARDWARE (●)	PAD-LOCKABLE GATE LATCH (●)	PANIC HARDWARE (●)	KICK PLATE (●)	CLOSER (●)	SEE DETAIL	NOTES
⬡	WIDTH PER LEAF	HEIGHT										
G1	3'-6"/3'-6"	7'-6"	CUST	PAIR	●	●	●	●	●		7 / A1.06 9/A1.06 8 / A1.06 10/A1.06	"
G2	3'-0"	7'-6"	CUST	SGL.		●		●	●		7 / A1.06 9/A1.06 SIM 8 / A1.06 10/A1.06 SIM	
G3	9'-0"	7'-6"	CUST	SGL.	●	●					7 / A1.06 9/A1.06 SIM 8 / A1.06 10/A1.06 SIM	
G4	4'-0"	6'-0"	C.L.	SGL.		●		●	●		25B/A1.06	V.I.F.
G5	4'-0"	5'-0"	C.L.	SGL.		●		●	●		25A/A1.06	V.I.F.
G6	3'-0"/9-9"±	7'-0"	C.L.	PAIR	●	●	●	●	●	●	25C/A1.06	V.I.F.
G7	3'-0"/7'-3"±	7'-0"	C.L.	PAIR	●	●	●	●	●	●	25C/A1.06	V.I.F.
G8	3'-5"/3'-5"±	6'-0"	C.L.	PAIR	●	●	●	●	●	●	25D/A1.06	V.I.F.

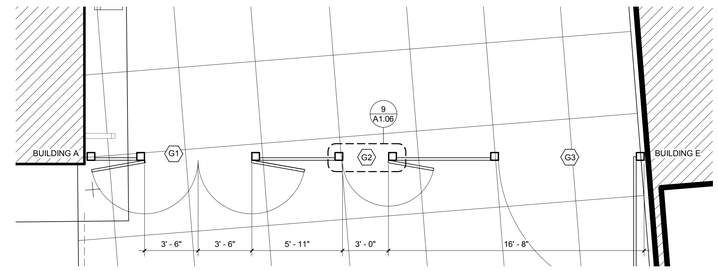
GATE TYPES

C.L. CHAIN LINK GATE
CUST CUSTOM METAL GATE

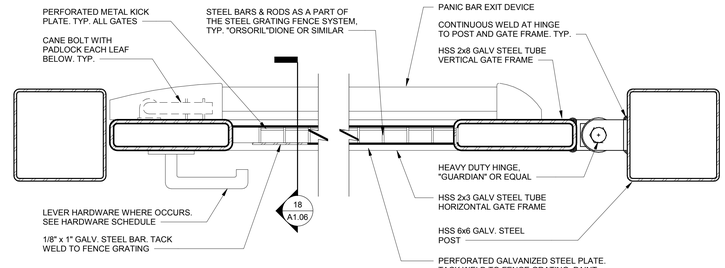
6 GATE SCHEDULE
12" = 1'-0"



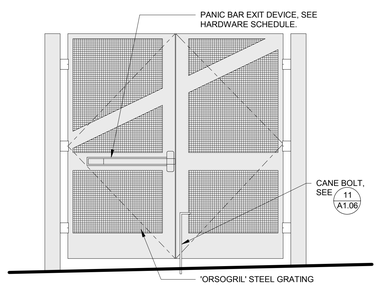
7 ENTRY GATE ELEVATION
1/4" = 1'-0"



8 ENTRY TO CAMPUS - NEW
1/4" = 1'-0"



9 GATE DETAIL - PLAN
3" = 1'-0"



METAL GATE NOTES:

1. POSTS SHALL HAVE CAPS WHICH EXCLUDE MOISTURE.
2. HINGES: GALVANIZED PRESSED STEEL OR MALLEABLE IRON TO SUIT GATE SIZE, NON LIFT-OFF TYPE, OFFSET TO PERMIT 180 DEGREE GATE OPENING.

HARDWARE NOTES:

PEDESTRIAN GATE
HARDWARE: VON DUPRIN AX99L-2 X 995-17 RHR
FINISH: POWDER COAT
LOCKSET: SCH 23-030 / VON DUPRIN CYLINDER TRIM

NOTE: KEY LOCK PER DISTRICT CODE REQUIREMENTS

10 ENTRY GATE ELEVATION - PEDESTRIAN PUSH SIDE
1/2" = 1'-0"

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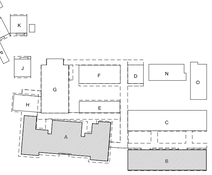
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HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
SITE DETAILS

Client Project Number: Client Proj. #

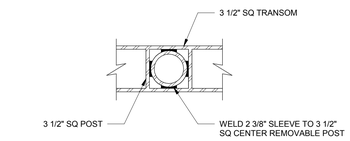
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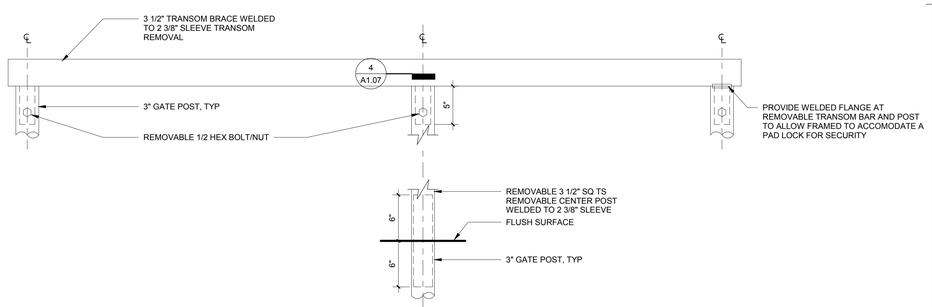
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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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4 TOP VIEW CENTER REMOVABLE POST
3" = 1'-0"



14 CHAIN LINK GATE TRANSOM
1 1/2" = 1'-0"

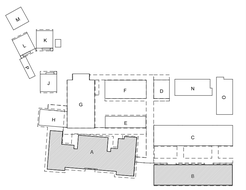
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Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
SITE DETAILS

Client Project Number: Client Proj. #

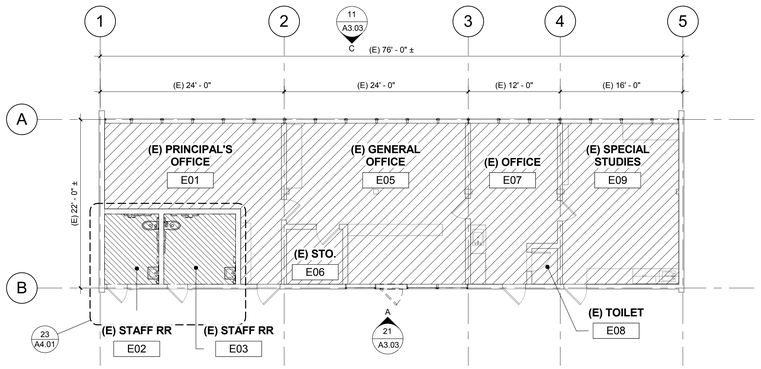
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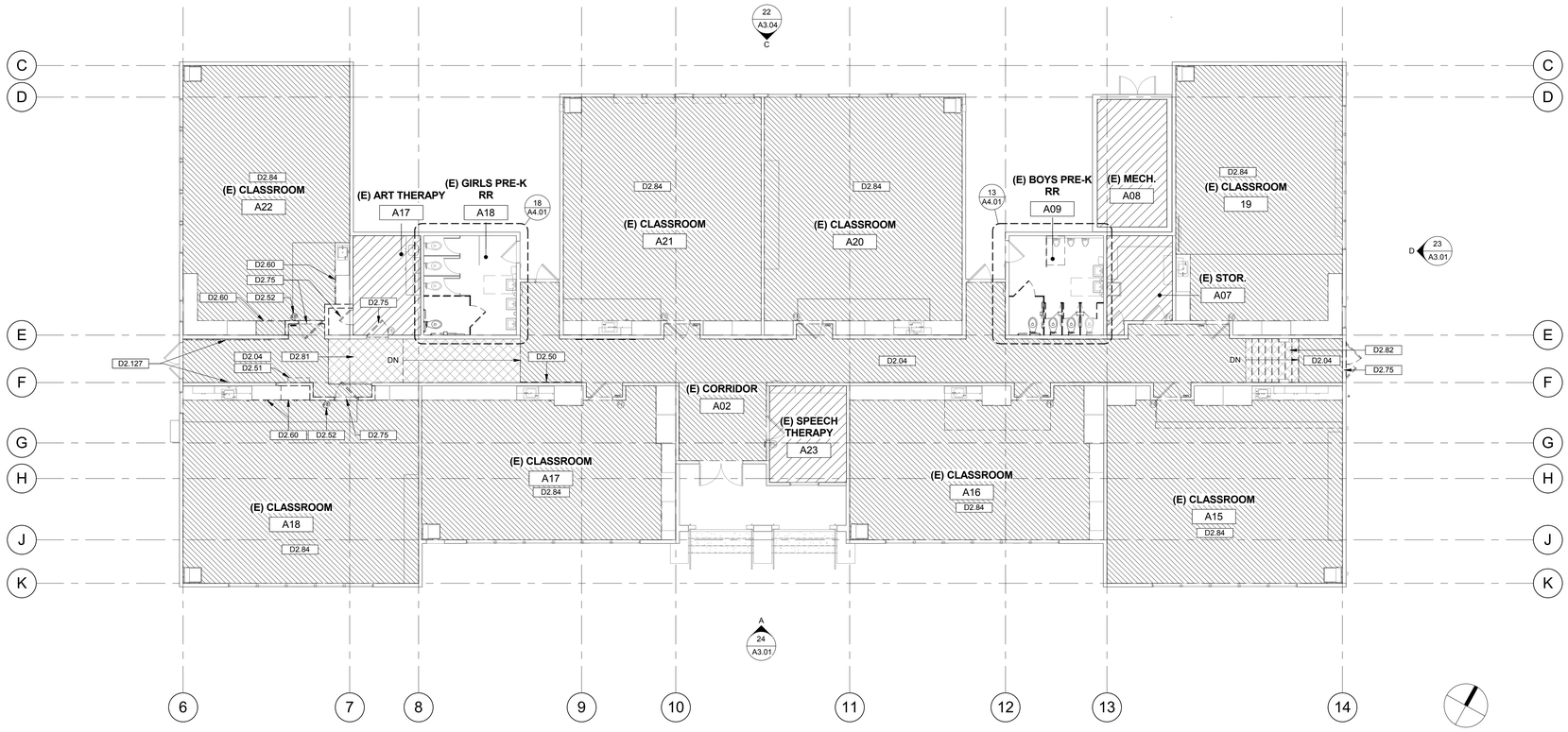
GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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12 DEMOLITION FLOOR PLAN - BUILDING E

1/8" = 1'-0"



25 DEMOLITION PLAN - BUILDING A

1/8" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N..
2. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND COORDINATION.
3. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS.CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS.
4. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK.
5. PATCH AND REPAIR WALLS & FLOORS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
6. PROTECT ALL (E) FINISHES TO REMAIN DURING CONSTRUCTION.
7. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
8. REFER TO REFLECTED CEILING DEMO PLANS FOR ADDITIONAL WORK AND COORDINATION.
9. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING, STORAGE, AND RELOCATING ALL FURNITURE, INCLUDING SHELVING.

DEMO KEYNOTES D#

D2.04	REMOVE (E) FLOOR FINISH. PROTECT (E) WOOD SUB-FLOOR TO REMAIN.
D2.50	PROTECT AND STORE WHEN REMOVING (E) PIN BOARD IN CORRIDOR FOR REINSTALLATION.
D2.51	PROTECT AND STORE WHEN REMOVING (E) COAT RACK AND SHELVING ABOVE FOR REINSTALLATION.
D2.52	PROTECT AND STORE WHEN REMOVING (E) FIRE EXTINGUISHER FOR REINSTALLATION.
D2.60	PROTECT AND STORE WHEN REMOVING (E) 7'-0"± HIGH CASEWORK FOR REINSTALLATION.
D2.75	REMOVE (E) DOOR AND ASSOCIATED FRAMING.
D2.81	REMOVE (E) WOOD FRAMED RAMP, ASSOCIATED HANDRAILS AND PORTION OF UPPER LANDING.
D2.82	REMOVE (E) WOOD FRAMED STAIRS AND ASSOCIATED HANDRAILS.
D2.84	REMOVE (E) FLOOR FINISHES.
D2.127	PROTECT AND STORE WHEN REMOVING (E) SHELVES AND COAT RACKS FOR REINSTALLATION.

LEGEND

- NO WORK, U.O.N.
- REMOVE (E) FLOOR FINISH AND ASSOCIATED RUBBER BASE. PROTECT (E) WOOD SUB-FLOOR TO REMAIN.
- REMOVE (E) STAIRS AND RAMPS
- (E) WOOD FRAMED WALLS TO BE DEMOLISHED
- (E) WALLS TO REMAIN, PROTECT DURING CONSTRUCTION
- (E) DOOR TO REMAIN
- (E) DOOR TO BE REMOVED

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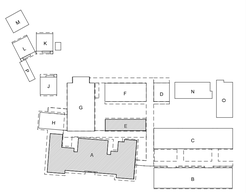
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HY Architects Project number: 4539

Facility
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35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
DEMOLITION FLOOR PLANS BUILDINGS A & E

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: OA
Checked By: CD
Issue Date: 03/11/19
Revit Version: 2017

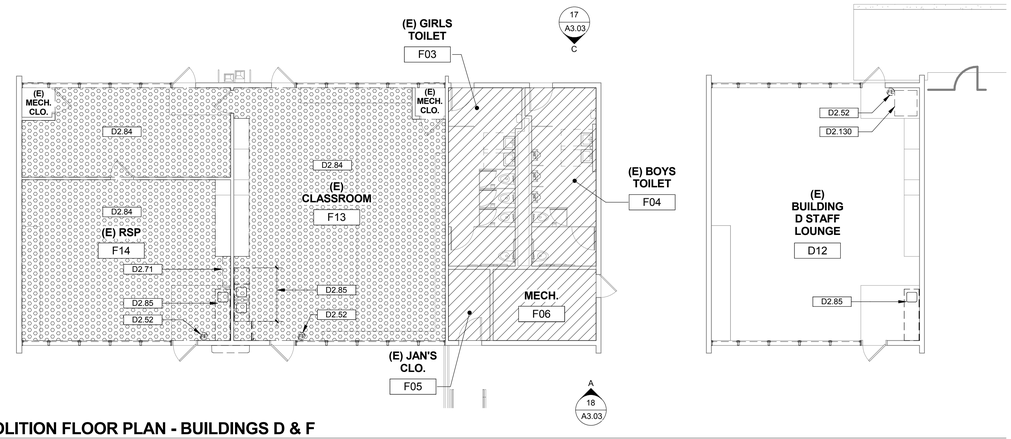
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0 5' 50' | 0 5' 25' | 0 1' 12' | 0 1' 6' | 0 4' | 0 1' 3' | 0 2' | 0 1'

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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22 DEMOLITION FLOOR PLAN - BUILDINGS D & F

1/8" = 1'-0"

24 DEMOLITION FLOOR PLAN - BUILDING C

1/8" = 1'-0"

25 DEMOLITION FLR PLAN - BUILDING B

1/8" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N.;
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5. PATCH AND REPAIR WALLS & FLOORS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
6. PROTECT ALL (E) FINISHES TO REMAIN DURING CONSTRUCTION.
7. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
8. REFER TO REFLECTED CEILING DEMO PLANS FOR ADDITIONAL WORK AND COORDINATION.
9. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING, STORAGE, AND RELOCATING ALL FURNITURE, INCLUDING SHELVING.

DEMO KEYNOTES D#

D2.01 REMOVE (E) TANK TOILET, S.P.D.
D2.02 REMOVE (E) STEEL FRAMED WINDOWS. TYP. ALL U.O.N.
D2.15 PROTECT AND STORE WHEN REMOVING (E) DOOR, ASSOCIATED HARDWARE AND ROOM SIGNAGE FOR REINSTALLATION. PROTECT (E) WOOD FRAME TO REMAIN. STORE AND PROTECT. REMOVE (E) 3/4" CONCRETE INTEGRAL THRESHOLD.
D2.16 REMOVE (E) CASEWORK FOR REINSTALLATION. TYP.
D2.18 REMOVE (E) PARTITION.
D2.29 PROTECT (E) CASEWORK WHEN REMOVING PORTION OF (E) UPPER AND BASE CASEWORK FOR TRIMMING, AND NEW END REINFORCEMENT.
D2.38 REMOVE (E) CASEWORK.
D2.46 DEMOLISH (E) WOOD STUD PARTITION AND ASSOCIATED 6" CONC. CURB. PROTECT (E) CONC. SLAB TO REMAIN.
D2.52 PROTECT AND STORE WHEN REMOVING (E) FIRE EXTINGUISHER FOR REINSTALLATION.
D2.71 REMOVE (E) WALL MOUNTED SHELF CASEWORK
D2.84 REMOVE (E) FLOOR FINISHES.
D2.85 REMOVE (E) SINK AND ASSOCIATED UPPER AND LOWER CASEWORK IN PREPARATION FOR NEW INSTALLATION, PROTECT AND STORE WHEN REMOVING (E) SOAP DISPENSER AND PAPER TOWEL DISPENSER FOR REUSE. S.P.D.
D2.106 DEMO PORTION OF FLOOR FOR (N) TOILET FIXTURES. SEE PLUMBING DRAWINGS.
D2.130 REMOVE (E) VENDING MACHINE AND RETURN TO OWNER.

EXISATING KEYNOTES

02.26 (E) STEEL COLUMN TO REMAIN, PROTECT.
22.13 (E) NON-ACCESSIBLE DRINKING FOUNTAIN TO REMAIN.

LEGEND

- NO WORK, U.O.N.
- REMOVE (E) FLOOR FINISH AND ASSOCIATED RUBBER BASE. PROTECT (E) CONC SUB-FLOOR TO REMAIN
- (E) WOOD FRAMED WALLS TO BE DEMOLISHED
- (E) WALLS TO REMAIN, PROTECT DURING CONSTRUCTION
- (E) DOOR TO REMAIN
- (E) DOOR TO BE REMOVED

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HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
DEMOLITION FLOOR PLANS BUILDINGS B, C, D & F

Client Project Number: | Client Proj. #

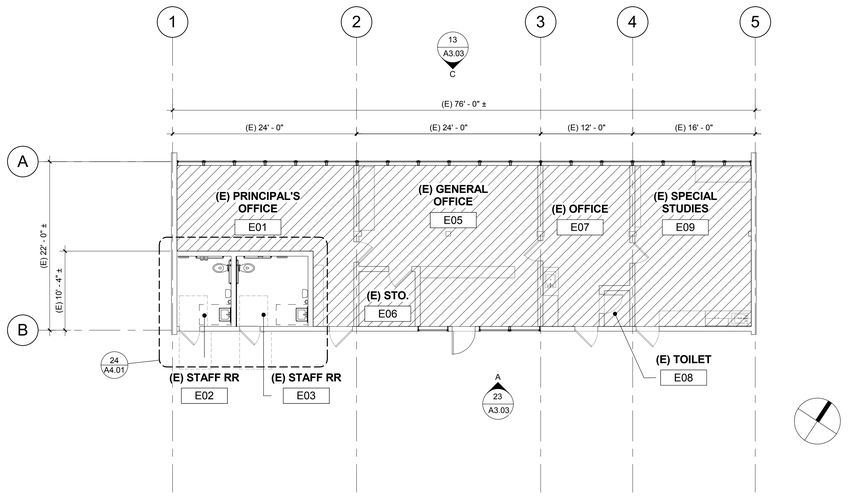
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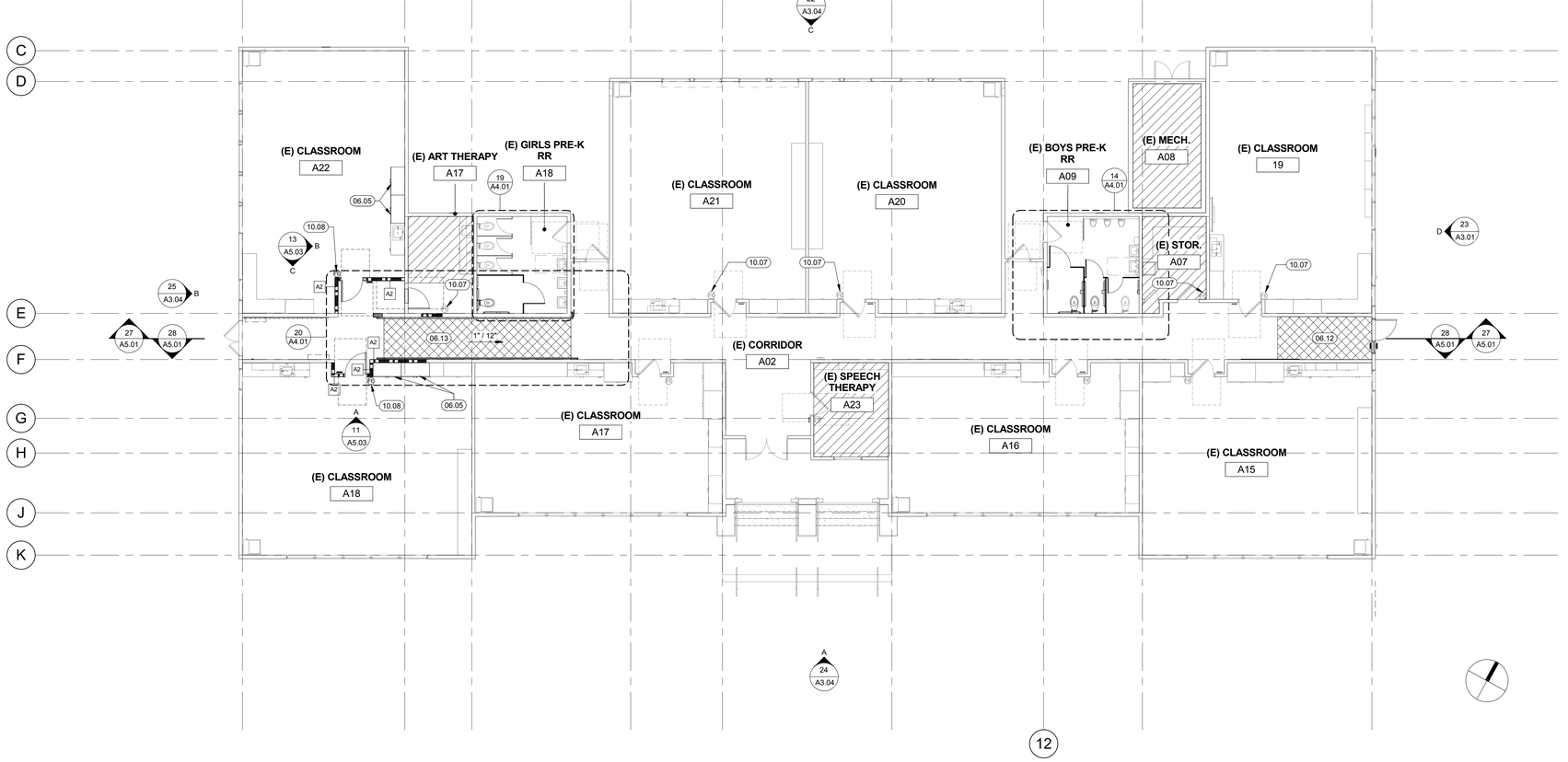
GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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17 FLOOR PLAN - BUILDING E

1/8" = 1'-0"



30 FLOOR PLAN - BUILDING A

1/8" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N..
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3. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS.
4. PATCH AND REPAIR WALLS & FLOORS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
5. GROUT FILL ALL HOLES IN WALL AND TILE WHERE DISPENSERS OR PARTITIONS REMOVED OR RELOCATED.
6. PROTECT ALL (E) FINISHES TO REMAIN DURING CONSTRUCTION.
7. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK.
8. DIMENSIONS:
   A. ALL EXISTING WALLS WITH EXISTING FINISHES TO REMAIN ARE DIMENSIONED TO FACE OF FINISH.
   B. ALL NEW DIMENSIONS SHALL BE TO FACE OF STUD UNLESS OTHERWISE NOTED.
   C. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
9. PROVIDE SOLID BACKING AS REQUIRED IN STUD WALLS FOR ALL WALL MOUNTED ACCESSORIES, FIXTURES AND EQUIPMENT. SEE A9.02.
10. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL WORK AND COORDINATION.
11. REFER TO INTERIOR ELEVATIONS AND A9.01 FOR TOILET ACCESSORIES.
12. SEE PLUMBING DRAWINGS FOR PLUMBING FIXTURE MOUNTING REQUIREMENTS; SEE ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS.
13. SEE A2.41, & A2.42 FOR FINISH SCHEDULE AND PLANS.
14. SEE A2.25 FOR DOOR & SIGNAGE SCHEDULE.
15. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING, STORAGE, AND RELOCATING ALL FURNITURE, INCLUDING SHELVING.
16. SEE ELEVATIONS SHEETS A2.31, A3.01, A3.02, A3.03 & A3.04 FOR NEW WINDOW / NEW GLAZING INFORMATION.
17. SEE SITE PLAN SHEETS A1.02 TO A1.06 FOR SITE RELATED WORK.

KEYNOTES

06.05	REINSTALL (E) 7'-0"± HIGH CASEWORK. PROVIDE BLOCKING AS REQUIRED.
06.12	FLOOR FRAMING INFILL, 3/4" PLYWOOD SHEATHING O/ 2X8 FRAMING. SEE FINISH PLANS. SEE STRUCTURAL DRAWINGS.
06.13	3/4" PLYWOOD SHEATHING O/ 2X8 FRAMING @ 1:12 SLOPE MAX. SEE FINISH PLANS. SEE STRUCTURAL DRAWINGS.
10.07	(E) FIRE EXTINGUISHER
10.08	REINSTALL (E) FIRE EXTINGUISHER. OPERABLE PART OF UNIT @ 40" MAX. A.F.F.

LEGEND

- NO WORK, U.O.N.
- WOOD INFILL FRAMING, S.S.D.
- (E) DOOR TO REMAIN
- (N) DOOR & DOOR FRAME
- (N) RATED 1-HOUR WALL
- (N) NON-RATED WALL
- (E) WALL

WALL TAG

A4 — WALL TYPE - REFER TO DRAWING SHEET A9.05 FOR DETAILS.

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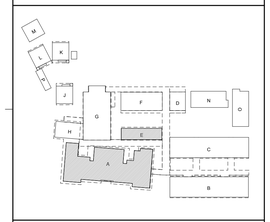
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HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
OVERALL FLOOR PLANS BUILDINGS A & E

Client Project Number: Client Proj. #

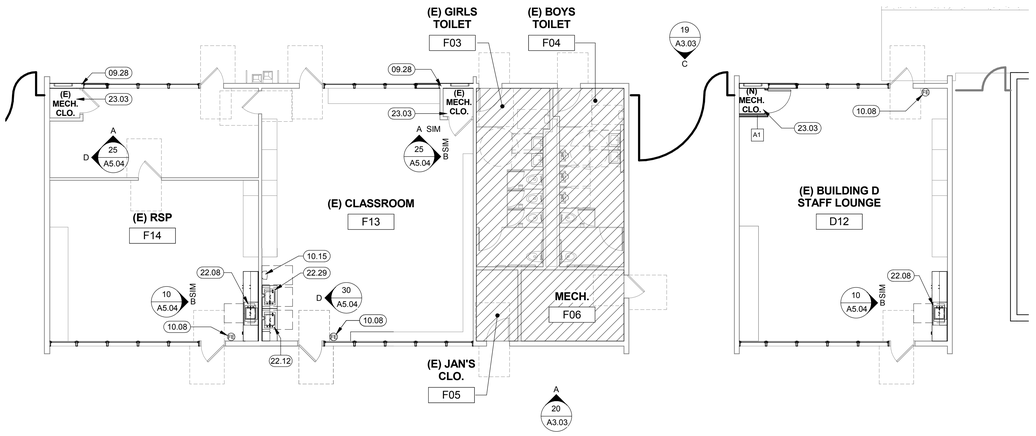
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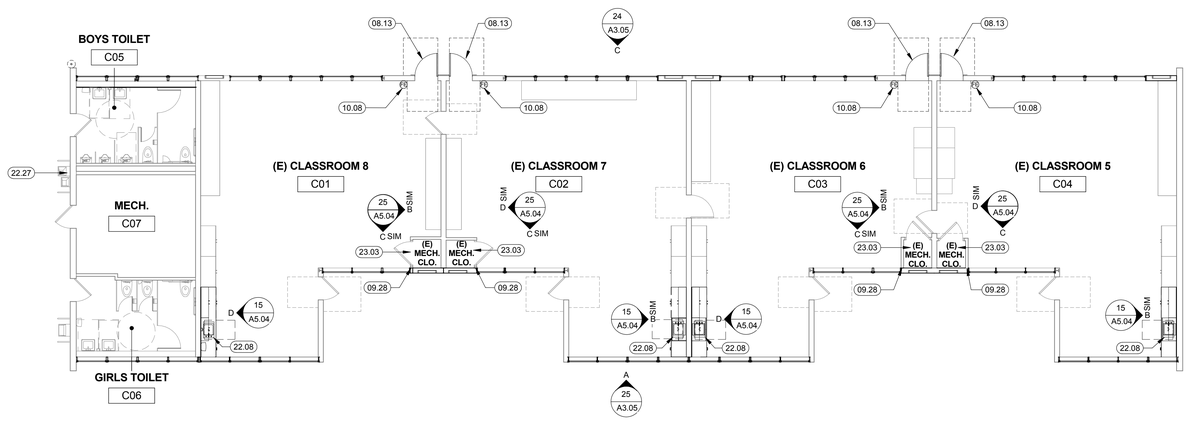
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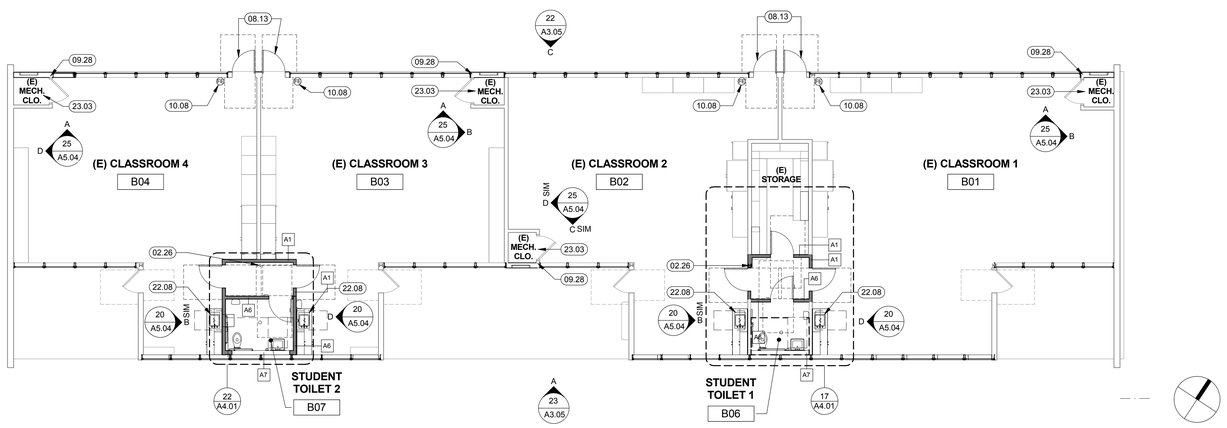
17 FLOOR PLAN - BUILDINGS D & F

1/8" = 1'-0"



24 FLOOR PLAN - BUILDING C

1/8" = 1'-0"



25 FLOOR PLAN - BUILDING B

1/8" = 1'-0"

GENERAL NOTES

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4. PATCH AND REPAIR WALLS & FLOORS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
5. GROUT FILL ALL HOLES IN WALL AND TILE WHERE DISPENSERS OR PARTITIONS REMOVED OR RELOCATED.
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   C. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
9. PROVIDE SOLID BACKING AS REQUIRED IN STUD WALLS FOR ALL WALL MOUNTED ACCESSORIES, FIXTURES AND EQUIPMENT. SEE A9.02
10. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL WORK AND COORDINATION.
11. REFER TO INTERIOR ELEVATIONS AND A9.01 FOR TOILET ACCESSORIES.
12. SEE PLUMBING DRAWINGS FOR PLUMBING FIXTURE MOUNTING REQUIREMENTS; SEE ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS.
13. SEE A2.41 & A2.42 FOR FINISH SCHEDULE AND PLANS.
14. SEE A2.25 FOR DOOR & SIGNAGE SCHEDULE.
15. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING, STORAGE, AND RELOCATING ALL FURNITURE, INCLUDING SHELVING.
16. SEE ELEVATIONS SHEETS A2.31, A3.01, A3.02, A3.03 & A3.04 FOR NEW WINDOW / NEW GLAZING INFORMATION.
17. SEE SITE PLAN SHEETS A1.02 TO A1.06 FOR SITE RELATED WORK.

KEYNOTES

02.26	(E) STEEL COLUMN TO REMAIN, PROTECT.
08.13	REINSTALL (E) WOOD DOOR & ASSOCIATED HARDWARE. REMOVE INTEGRAL 3/4" CEMENT THRESHOLD IN PREPARATION FOR NEW. PATCH (E) FRAME IF DAMAGED & PAINT. SEE DOOR SCHEDULE.
09.28	EXTEND (E) INTERIOR WOOD FRAMED GYP. BD. WALL TO (N) EXTERIOR WOOD FRAMED INFILL WALL FOR COMPLETE ENCLOSURE OF (E) FURNACE CLOSET.
10.08	REINSTALL (E) FIRE EXTINGUISHER. OPERABLE PART OF UNIT @ 40" MAX. A.F.F.
10.15	REINSTALL (E) PAPER TOWEL DISPENSER, OPERABLE PART OF UNIT BELOW 40" A.F.F.
22.08	(N) ACCESSIBLE SINK, TYP. SEE A9.01 & 24/A9.02 FOR MOUNTING AND CLEARANCE REQUIREMENTS, SPD.
22.12	(N) ACCESSIBLE ADULT HEIGHT SINK WITH BUBBLER. SEE 24/ A9.02 & 12/ A9.01 FOR MOUNTING AND CLEARANCE REQUIREMENTS. S.P.D.
22.27	(N) BOTTLE FILLER @ (E) ACCESSIBLE DRINKING FOUNTAIN, SEE DETAILS 19 & 30/ A9.01 AND SPD.
22.29	(N) ACCESSIBLE STUDENT HEIGHT SINK WITH BUBBLER. SEE 24/ A9.02 & 12/ A9.01 FOR MOUNTING AND CLEARANCE REQUIREMENTS. S.P.D.
23.03	(N) GAS FURNACE AND DUCTWORK, S.M.D., S.P.D.

LEGEND

- NO WORK, U.O.N.
- (E) DOOR TO REMAIN
- RELOCATED DOOR & DOOR FRAME
- (N) NON-RATED WALL
- (E) WALL

WALL TAG

A4 — WALL TYPE - REFER TO DRAWING SHEET A9.05 FOR DETAILS.

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HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
OVERALL FLOOR PLANS BUILDINGS B, C, D & F

Client Project Number: Client Proj. #

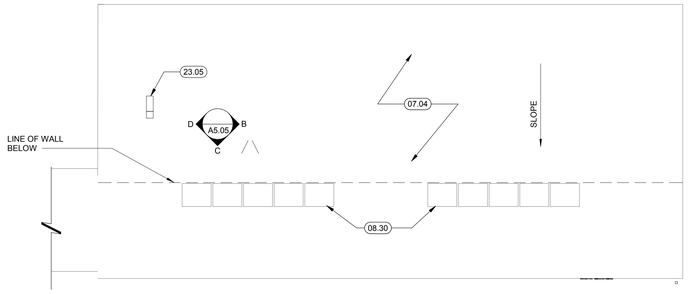
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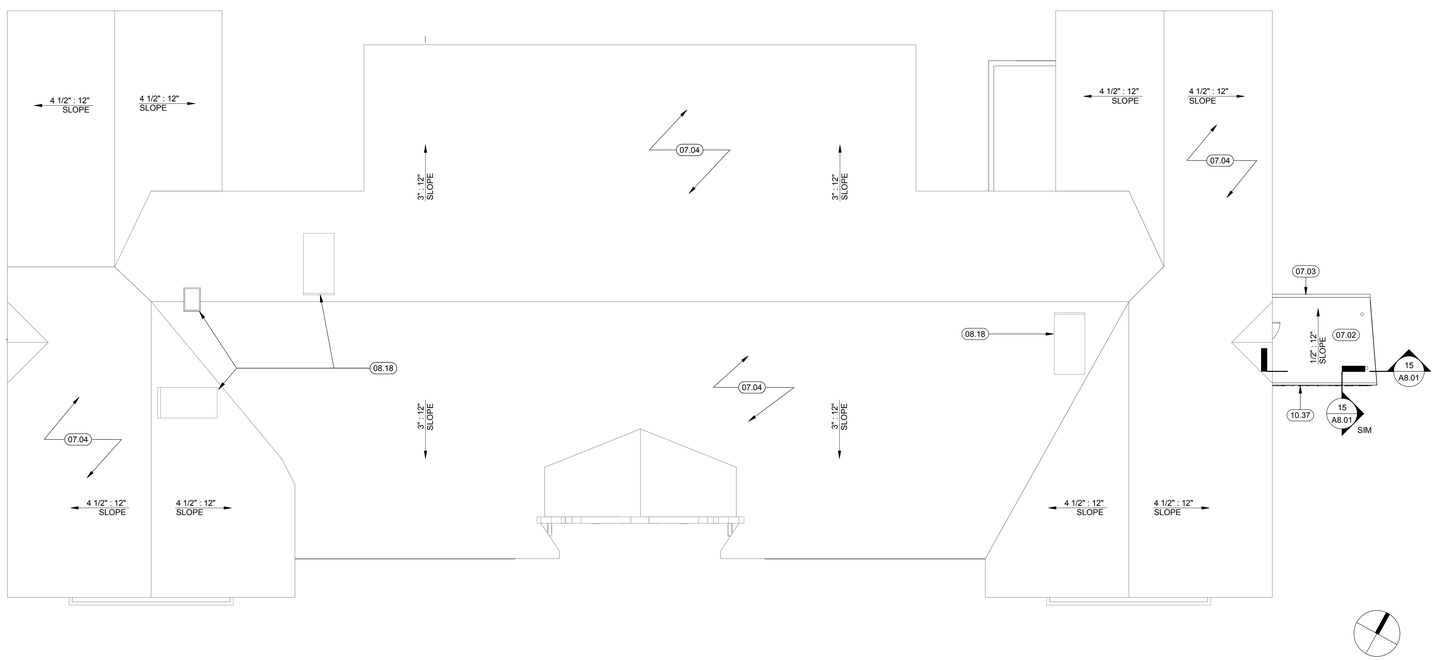
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0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"
0 5' 25' 1/8" = 1'-0"
0 1' 12' 1/4" = 1'-0"
0 1' 6' 1/2" = 1'-0"
0 4' 3/4" = 1'-0"
0 1' 3' 1" = 1'-0"
0 2' 1 1/2" = 1'-0"
0 1' 3" = 1'-0"

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12 (E) ROOF PLAN - BUILDING E
1/8" = 1'-0"



25 ROOF PLAN - BUILDING A
1/8" = 1'-0"

GENERAL NOTES

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4. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK.
5. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL WORK AND COORDINATION.

KEYNOTES

REMODEL

07.02 WOOD FRAMED CANOPY, W/ BUILT-UP ROOFING, SEE 13 & 15/A8.01. SEE STRUCTURAL DRAWINGS
07.03 16 GA GALVANIZED SHEET METAL GUTTER ASSEMBLY- ALL SEAMS SHALL BE SOLDERED WATERTIGHT. PROVIDE HIGH PERFORMANCE COATING ON ALL SURFACES (EXPOSED AND CONCEALED). PROVIDE BUTT TYPE EXPANSION JOINTS AS REQUIRED. SEE 13/ A8.01.
07.04 (E) BUILT-UP ROOF
08.18 (E) SKY LIGHT
08.30 (E) ROOF OPENINGS
10.37 FABRICATED CAST ALUMINUM LETTERS. 10"H X 1 1/2"D. SEE 15/ A8.01.
23.05 (N) EXHAUST FAN, SEE DETAIL 2/A8.01, SEE PLUMBING DRAWINGS, SEE MECHANICAL DRAWINGS.

LEGEND

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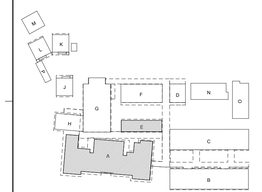
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Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
ROOF PLANS - BUILDINGS A & E

Client Project Number: Client Proj. #

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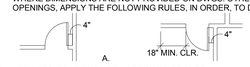
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DOOR AND FRAME SCHEDULE

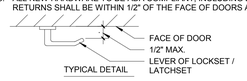
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A02a	3' - 0"	7' - 0"	FRP		2	TG	HM		B	TG	1/A8.10	2/A8.10	11/A8.10	15	--			EXIT
A17	3' - 0"	7' - 0"	WD		1	--	HM		A	--	6/A8.10	7/A8.10	14/A8.10	9	20 MIN.			STORAGE
A18a	3' - 0"	7' - 0"	WD		2	FR	HM		A	--	6/A8.10	7/A8.10	14/A8.10	5	20 MIN.			CLASSROOM 18
A22a	3' - 0"	7' - 0"	WD		2	FR	HM		A	--	6/A8.10	7/A8.10	14/A8.10	5	20 MIN.			CLASSROOM 22
B01A	3' - 0"	6' - 8"	(E) HM		(E) 1	--	(E)		(E)	--	1/A8.10 SIM	2/A8.10 SIM	9/A8.10	1	--	REUSE (E) DOOR & HARDWARE, INCLUSIVE OF OVERHEAD CLOSER AND PANIC HARDWARE, FROM CLASSRM 2, (N) THRESHOLD		REINSTALL (E) ROOM 1 SIGN PER DTL 6/A9.04
B01B	3' - 0"	6' - 8"	WD		1	--	WD		A		6/A8.10	7/A8.10	8/A8.10	5	--			-
B02A	3' - 0"	6' - 8"	(E) HM		(E) 1	--	(E)		(E)	--	1/A8.10 SIM	2/A8.10 SIM	9/A8.10	1	--	REUSE (E) DOOR & HARDWARE, INCLUSIVE OF OVERHEAD CLOSER AND PANIC HARDWARE, FROM CLASSRM 1, (N) THRESHOLD		REINSTALL (E) ROOM 2 SIGN PER DTL 6/A9.04
B02B	3' - 0"	6' - 8"	WD		1	--	WD		A		6/A8.10	7/A8.10	8/A8.10	5	--			-
B03A	3' - 0"	6' - 8"	(E) HM		(E) 1	--	(E)		(E)	--	1/A8.10 SIM	2/A8.10 SIM	9/A8.10	1	--	REUSE (E) DOOR & HARDWARE, INCLUSIVE OF OVERHEAD CLOSER AND PANIC HARDWARE, FROM CLASSRM 4, (N) THRESHOLD		REINSTALL (E) ROOM 3 SIGN PER DTL 6/A9.04
B03B	3' - 0"	6' - 8"	WD		1	--	WD		A		6/A8.10	7/A8.10	8/A8.10	5	--			-
B04A	3' - 0"	6' - 8"	(E) HM		(E) 1	--	(E)		(E)	--	1/A8.10 SIM	2/A8.10 SIM	9/A8.10	1	--	REUSE (E) DOOR & HARDWARE, INCLUSIVE OF OVERHEAD CLOSER AND PANIC HARDWARE, FROM CLASSRM 3, (N) THRESHOLD		REINSTALL (E) ROOM 4 SIGN PER DTL 6/A9.04
B04B	3' - 0"	6' - 8"	WD		1	--	WD		A		6/A8.10	7/A8.10	8/A8.10	5	--			-
B06	3' - 0"	6' - 8"	WD		1	--	WD		A		6/A8.10	7/A8.10	8/A8.10	11	--			RESTROOM
B07	3' - 0"	6' - 8"	WD		1	--	WD		A		6/A8.10	7/A8.10	8/A8.10	11	--			RESTROOM
B08	3' - 0"	6' - 8"	WD		1	--	WD		A	-	6/A8.10	7/A8.10	8/A8.10	22	--			STORAGE
C05	3' - 0"	6' - 8"	(E) HM		1	--	(E)		A	--	1/A8.10 SIM	2/A8.10 SIM	9/A8.10	1	--	REUSE (E) DOOR & HARDWARE FROM CLASSRM 6, (N) THRESHOLD		REINSTALL (E) ROOM 5 SIGN PER DTL 6/A9.04
C06	3' - 0"	6' - 8"	(E) HM		1	--	(E)		A	--	1/A8.10 SIM	2/A8.10 SIM	9/A8.10	1	--	REUSE (E) DOOR & HARDWARE FROM CLASSRM 8, (N) THRESHOLD		REINSTALL (E) ROOM 6 SIGN PER DTL 6/A9.04
C07	3' - 0"	6' - 8"	(E) HM		1	--	(E)		A	--	1/A8.10 SIM	2/A8.10 SIM	9/A8.10	1	--	REUSE (E) DOOR & HARDWARE FROM CLASSRM 8, (N) THRESHOLD		REINSTALL (E) ROOM 7 SIGN PER DTL 6/A9.04
C08	3' - 0"	6' - 8"	(E) HM		1	--	(E)		A	--	1/A8.10 SIM	2/A8.10 SIM	9/A8.10	1	--	REUSE (E) DOOR & HARDWARE FROM CLASSRM 7, (N) THRESHOLD		REINSTALL (E) ROOM 8 SIGN PER DTL 6/A9.04
D01	3' - 0"	7' - 0"	WD		1	--	HM		A	--	6/A8.10	7/A8.10	8/A8.10	17	--			-
E05b	3' - 0"	6' - 8"	FRP		3	TG	(E)		A	--	(E)	(E)	(E)	1	--			RESOURCE CENTER

GENERAL NOTES FOR DOOR SCHEDULE

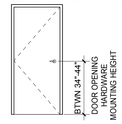
1. WHERE DIMENSIONS ARE NOT PROVIDED ON DWGS. OTHER THAN THE FLOOR PLANS TO LOCATE DOOR OPENINGS, APPLY THE FOLLOWING RULES, IN ORDER, TO DETERMINE THE LOCATION OF DOOR OPENINGS:



2. SEE SPECIFICATIONS FOR HARDWARE GROUPS.
3. ALL NEW HARDWARE TO BE ADA COMPLIANT, INCLUDING LEVER ACTION DOOR KNOBS. ALL LEVER RETURNS SHALL BE WITHIN 1/2" OF THE FACE OF DOORS AS SHOWN BELOW.



4. ADJUST DOOR CLOSER FOR MAXIMUM PUSH/PULL EFFORT TO OPERATE DOOR AS FOLLOWS: (EFFORT SHALL BE APPLIED AT RIGHT ANGLES TO CENTER PLANE OF DOOR):
   A. INTERIOR DOORS: NOT TO EXCEED 5 POUNDS.
   B. EXTERIOR DOORS: NOT TO EXCEED 5 POUNDS
   C. FIRE RATED DOORS: THE AUTHORITY HAVING JURISDICTION MAY INCREASE THE MAXIMUM EFFORT TO OPERATE FIRE DOORS IN ORDER TO ACHIEVE POSITIVE LATCHING, BUT NOT EXCEEDING THE 15 LBF MAX.
5. PAINT DOORS & FRAMES , TYPCIAL, U.O.N.
6. ALL DOORS 1-3/4" THICK U.O.N.
7. DOOR HARDWARE GROUPS: REFER TP SPECIFICATION
8. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED BETWEEN 34" MIN AND 44" MAX ABOVE THE FINISHED FLOOR CBC 1008.1.9.2 CBC 1133B.2.5.2



9. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. CBC 1133B.2.5.2

DOOR AND FRAME COLUMN REFERENCE GUIDE

1. DOOR MARK: SPECIFIC NUMBER ASSIGNED TO INDIVIDUAL DOOR.
2. NOMINAL DOOR SIZE: DESIGNATES NOMINAL WIDTH AND HEIGHT OF DOOR IN FEET AND INCHES. DOOR WIDTH IS GIVEN PER LEAF. REFER TO FLOOR PLAN FOR PAIRS OF DOORS. THICKNESS OF DOOR IS 3/4" THK., TYP. U.O.N.
3. DOOR MATERIAL: INDICATES MATERIAL FROM WHICH DOOR IS CONSTRUCTED I.E., HM-HOLLOW METAL, WD-SOLID CORE WOOD, AL-ALUMINUM, FRP - SOLID CORE WOOD FINISHED W/ FRP. SEE A2.4 FOR FINISH SCHEDULE
4. DOOR DESCRIPTION: DESCRIBES THE NUMBER OF LEAVES.
5. DOOR TYPE: ALPHANUMERICAL DESIGNATION OF DOOR TYPE AS SHOWN IN ELEVATION.
6. FRAME MATERIAL: INDICATES MATERIAL FROM WHICH FRAME IS CONSTRUCTED, I.E., HM-HOLLOW METAL, WD-WOOD, AL-ALUMINUM, SST - STAINLESS STEEL, ETC.
7. FRAME TYPE: NUMERICAL DESIGNATION OF FRAME TYPE AS SHOWN IN FRAME TYPE ELEVATION.
8. GLASS: DESIGNATES TYPE OF GLASS TO BE USED IN FRAME, W.O., I.E., TG-TEMPERED GLASS, WG-WIRE GLASS, LAM-LAMINATED GLASS, ETC.
9. HARDWARE GROUP: NUMERICAL DESIGNATION OF HARDWARE GROUPING. TO BE APPLIED TO DOOR. REFER TO SPECIFICATIONS FOR DESCRIPTION OF HARDWARE CONTAINED WITHIN GROUPING.
10. DOOR AND FRAME FIRE RATING: DESIGNATES ALPHABETICAL FIRE RESISTANCE RATING CLASSIFICATION LABEL REQUIRED FOR DOOR AND FRAME WITH TIME PERIOID REQUIRED IN MINUTES.
11. REMARKS: DESIGNATES OR REFERENCES SPECIAL, UNUSUAL OR ABSTRACT CONDITIONS WHICH EXIST AND ARE NOT COVERED IN SCHEDULE ITEMS 1 THRU 14. REFER TO REMARKS REFERENCE SCHEDULE FOR NUMERICAL DESIGNATION AND REMARKS LEGEND FOR SPECIFIC INFORMATION.
12. SIGNAGE: DESIGNATES SIGNS ADJACENT TO DOORS. REFER TO SIGNAGE SCHEDULE FOR SIGN TYPE AND DETAILS.
13. SIGN TEXT: INDICATES TEXT FOR ROOM IDENTIFICATION SIGNS, (E) INIDCATES (E) TO REMAIN.

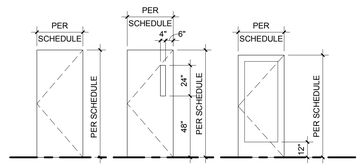
NOTE

ALL NEW AND EXISTING DOORS AND FRAMES LISTED TO BE PAINTED, U.O.N.

ABBREVIATIONS

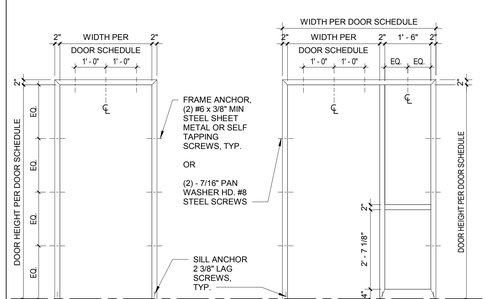
HM HOLLOW METAL
WD WOOD
(E) EXISTING
TG TEMPERED GLASS
FR FIRE-RESISTIVE SAFETY GLAZING

DOOR TYPES



1 - SINGLE FLUSH | 2 - SINGLE FLUSH WITH VISION PANEL | 3 - SINGLE FLUSH WITH FULL GLASS PANEL

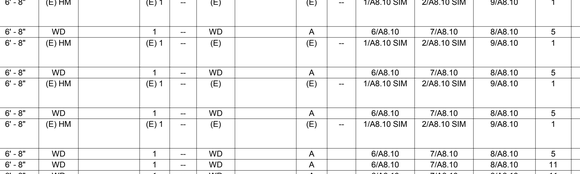
DOOR FRAME TYPE & ANCHORAGE



A DOOR | B SINGLE DOOR W/ SIDELIGHT

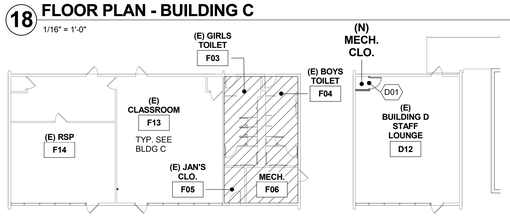
18 FLOOR PLAN - BUILDING C

1/16" = 1'-0"



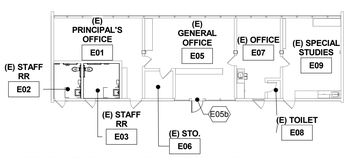
19 FLOOR PLAN - BUILDINGS D & F

1/16" = 1'-0"



20 FLOOR PLAN - BUILDING E

1/16" = 1'-0"



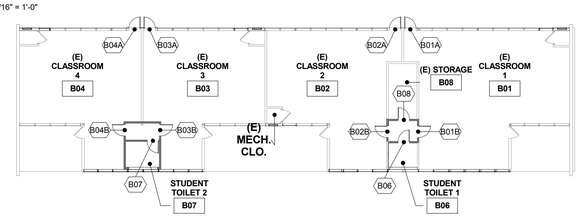
29 FLOOR PLAN - BUILDING A

1/16" = 1'-0"



30 FLOOR PLAN - BUILDING B

1/16" = 1'-0"



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Architect/Engineer Of Record:

LICENSED ARCHITECT REGISTERED PROFESSIONAL ENGINEER C-27362 01-31-2021 RENEWAL DATE STATE OF CALIFORNIA

SAN FRANCISCO UNIFIED SCHOOL DISTRICT • SOUTH • EDUCATION FOR ALL

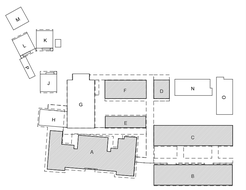
Revisions

No.	Revisions	By	Date	Appr.

BID SET
NOT FOR CONSTRUCTION
03/11/2019

DSA APPROVAL

IDENTIFICATION STAMP
DIVISION OF STATE ARCHITECT
APPL. 01-116977
AC ____ FLS ____ SS ____
DATE ____



HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel ¦ 510.446.2211 fax

HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

DOOR & SIGNAGE SCHEDULE

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: OA
Checked By: CD
Issue Date: 03/11/19
Revit Version: 2017

Sheet **A2.25**

3/11/2019 11:16:24 AM C:_Revit Locals\4539_Martin ES_SouthSFUSD_R17_Phase II_oahn@hy-arch.com.rvt

GRAPHIC SCALES: 1/16" = 1'-0" (0, 5', 50') | 1/8" = 1'-0" (0, 5', 25') | 1/4" = 1'-0" (0, 1', 12') | 1/2" = 1'-0" (0, 1', 6') | 3/4" = 1'-0" (0, 4') | 1" = 1'-0" (0, 1', 3') | 1 1/2" = 1'-0" (0, 2') | 3" = 1'-0" (0, 1')

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

WINDOW SCHEDULE

MARK	TYPE	WIDTH ± U.N.O.	HEIGHT ± U.N.O.	FRAME MAT	FRAME FIN	GLASS TYPE	FIRE RATING (MINS)	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	COMMENTS
1a	C9	3' - 6"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11,18/A8.05	4/A8.05	
1b	C11a	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	ACC
1c	C11	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	
1d	C11	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	
2	C11	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	
3	C11	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	
4	C11	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	
5	C11a	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	ACC
6	C11	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	
7	C11	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	
8	C11a	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	ACC
9a	C11	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	
9b	C11	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	
9c	C11a	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	ACC
9d	C11	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	
10	C11	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	
11	C11	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	
12	C11a	4' - 0"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11/A8.05	4/A8.05	ACC
13	C9	3' - 6"	8' - 1 1/2"	ALUM	MILL	INS	NR	16/A8.05	11,18/A8.05	4/A8.05	
14	C17	3' - 6"	3' - 2"	ALUM	MILL	INS	NR	4/A8.05	11,18/A8.05	4/A8.05	
15	C18	4' - 0"	3' - 2"	ALUM	MILL	INS	NR	4/A8.05	11/A8.05	4/A8.05	
16	C18	4' - 0"	3' - 2"	ALUM	MILL	INS	NR	4/A8.05	11/A8.05	4/A8.05	
17	C18	4' - 0"	3' - 2"	ALUM	MILL	INS	NR	4/A8.05	11/A8.05	4/A8.05	
18	C18	4' - 0"	3' - 2"	ALUM	MILL	INS	NR	4/A8.05	11/A8.05	4/A8.05	
19	C18	4' - 0"	3' - 2"	ALUM	MILL	INS	NR	4/A8.05	11/A8.05	4/A8.05	
20	C18	4' - 0"	3' - 2"	ALUM	MILL	INS	NR	4/A8.05	11/A8.05	4/A8.05	
21	C12	4' - 0"	9' - 2"	ALUM	MILL	INS	NR	4/A8.05	11/A8.05	4/A8.05	ACC
22	C12	4' - 0"	9' - 2"	ALUM	MILL	TEMP	NR	4/A8.05	10,11/A8.05	4/A8.05	ACC
23	C18	4' - 0"	3' - 2"	ALUM	MILL	TEMP	NR	4/A8.05	11/A8.05	4/A8.05	
24	C12	4' - 0"	9' - 2"	ALUM	MILL	TEMP	NR	4/A8.05	10,11/A8.05	4/A8.05	ACC
26	C18	4' - 0"	3' - 2"	ALUM	MILL	OBS	NR	4/A8.05	10/A8.05	4/A8.05	
27	C18	4' - 0"	3' - 2"	ALUM	MILL	OBS	NR	4/A8.05	10/A8.05	4/A8.05	
28	C18	4' - 0"	3' - 2"	ALUM	MILL	OBS	NR	4/A8.05	10/A8.05	4/A8.05	
29	C17	3' - 6"	3' - 2"	ALUM	MILL	OBS	NR	4/A8.05	11,18/A8.05	4/A8.05	
30	L5	2' - 5"	4' - 2"	ALUM	MILL	-	NR	21/A8.05	21/A8.05	21/A8.05	
31	C13a	3' - 2"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	10,11/A8.05	9/A8.05	
32	C13	4' - 0"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
33	C13	4' - 0"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
34	C13	4' - 0"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
35	C13	4' - 0"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	10,11/A8.05	9/A8.05	
36	C13	4' - 0"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	10,11/A8.05	9/A8.05	
37	C13	4' - 0"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
38	C13	4' - 0"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
39	C13	4' - 0"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
40	C13a	3' - 2"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	10,11/A8.05	9/A8.05	
41	L5	2' - 5"	4' - 2"	ALUM	MILL	INS	NR	21/A8.05	21/A8.05	21/A8.05	
42	C3a	3' - 2"	1' - 9"	ALUM	MILL	INS	NR	9/A8.05	10,11/A8.05	4/A8.05	
43	C1	4' - 0"	1' - 9"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	4/A8.05	
44	C3	4' - 0"	1' - 9"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	4/A8.05	
45	C1	4' - 0"	1' - 9"	ALUM	MILL	TEMP	NR	9/A8.05	10,11/A8.05	4/A8.05	
46	C1	4' - 0"	1' - 9"	ALUM	MILL	TEMP	NR	9/A8.05	10,11/A8.05	4/A8.05	
47	C3	4' - 0"	1' - 9"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	4/A8.05	
48	C1	4' - 0"	1' - 9"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	4/A8.05	
49	C3a	3' - 2"	1' - 9"	ALUM	MILL	INS	NR	9/A8.05	10,11/A8.05	4/A8.05	
50	L5	2' - 5"	4' - 2"	ALUM	MILL	-	-	21/A8.05	21/A8.05	21/A8.05	
51	C13b	3' - 9 1/2"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	10/A8.05	9/A8.05	
52	C13	4' - 0"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	10/A8.05	9/A8.05	
53	C13	4' - 0"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	10/A8.05	9/A8.05	
54	C13	4' - 0"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	10/A8.05	9/A8.05	
55	C13	4' - 0"	4' - 0"	ALUM	MILL	INS	NR	9/A8.05	10/A8.05	9/A8.05	
56	C3b	3' - 9 1/2"	1' - 9"	ALUM	MILL	INS	NR	9/A8.05	10,11/A8.05	4/A8.05	
57	C1	4' - 0"	1' - 9"	ALUM	MILL	INS	NR	9/A8.05	10/A8.05	4/A8.05	
58	C3	4' - 0"	1' - 9"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	4/A8.05	
59	C1	4' - 0"	1' - 9"	ALUM	MILL	TEMP	NR	9/A8.05	10,11/A8.05	4/A8.05	
60	L5	2' - 5"	4' - 2"	ALUM	MILL	-	-	21/A8.05	21/A8.05	21/A8.05	
61	C16a	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	10,11/A8.05	9/A8.05	
62	C16	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
63	C16	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
64	C16a	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
65	C15	3' - 6"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	10,11/A8.05	9/A8.05	
66	C7	4' - 0"	3' - 8"	ALUM	MILL	TEMP	NR	15/A8.05	10,11/A8.05	15/A8.05	
67	C7	4' - 0"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	11/A8.05	15/A8.05	
68	C6	4' - 0"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	11/A8.05	15/A8.05	ACC
69	C6	4' - 0"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	11/A8.05	15/A8.05	ACC
70	C5	3' - 6"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	10,11/A8.05	15/A8.05	
71	C16	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	10,11/A8.05	9/A8.05	
72	C16a	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
73	C16	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
74	C16a	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
75	C16	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	10,11/A8.05	9/A8.05	
76	L5	2' - 5"	4' - 2"	ALUM	MILL	-	-	21/A8.05	21/A8.05	21/A8.05	
77	C5	3' - 6"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	10,11/A8.05	15/A8.05	
78	C6	4' - 0"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	11/A8.05	15/A8.05	ACC
79	C6	4' - 0"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	11/A8.05	15/A8.05	ACC
80	C7	4' - 0"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	11/A8.05	15/A8.05	
81	C7	4' - 0"	3' - 8"	ALUM	MILL	TEMP	NR	15/A8.05	10,11/A8.05	15/A8.05	
82	L5	2' - 5"	4' - 2"	ALUM	MILL	-	-	21/A8.05	21/A8.05	21/A8.05	
83	C16a	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
84	C16	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
85	C16	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
86	C16a	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	11/A8.05	9/A8.05	
87	C16	4' - 0"	3' - 7"	ALUM	MILL	INS	NR	9/A8.05	10,11/A8.05	9/A8.05	
88	C7	4' - 0"	3' - 8"	ALUM	MILL	TEMP	NR	15/A8.05	10,11/A8.05	15/A8.05	
89	C7	4' - 0"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	11/A8.05	15/A8.05	
90	C6	4' - 0"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	11/A8.05	15/A8.05	ACC
91	C6	4' - 0"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	11/A8.05	15/A8.05	ACC
92	C5	3' - 6"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	10,11/A8.05	15/A8.05	
153	L5	2' - 5"	4' - 2"	ALUM	MILL	-	-	21/A8.05	21/A8.05	21/A8.05	
154	B3	2' - 11"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	2/A8.06	
155	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
156	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
157	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
158	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
159	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
160	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
161	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
162	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
163	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
164	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
165	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
166	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
167	B3	3' - 8"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	2/A8.06	
168	L5	2' - 5"	4' - 2"	ALUM	MILL	-	NR	21/A8.05	21/A8.05	21/A8.05	
169	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	2/A8.06	
170	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
171	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
172	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
173	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
174	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
175	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
176	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
177	L5	2' - 5"	4' - 2"	ALUM	MILL	-	-	21/A8.05	21/A8.05	21/A8.05	
178	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
179	B3	3' - 7"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
180	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
181	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
182	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
183	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
184	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
185	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
186	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	2/A8.06	
187	B3	3' - 8"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	2/A8.06	
187.1	L5	2' - 5"	4' - 2"	ALUM	MILL	-	-	21/A8.05	21/A8.05	21/A8.05	
188	B7	2' - 11"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	10,11/A8.05	13/A8.05	
189	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
190	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
191	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
192	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
193	B7	4' - 0"	2' - 2"	ALUM	MILL	TEMP	NR	2/A8.06	10,11/A8.05	13/A8.05	
194	B7	4' - 0"	2' - 2"	ALUM	MILL	TEMP	NR	2/A8.06	10,11/A8.05	13/A8.05	
195	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
196	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	

WINDOW SCHEDULE

MARK	TYPE	WIDTH ± U.N.O.	HEIGHT ± U.N.O.	FRAME MAT	FRAME FIN	GLASS TYPE	FIRE RATING (MINS)	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	COMMENTS
197	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
198	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	A8.06	11/A8.05	13/A8.05	
199	B7	3' - 8"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
200	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	10/A8.05	13/A8.05	
201	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
202	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
203	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
204	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
205	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
206	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
207	B7	4' - 0"	2' - 2"	ALUM	MILL	TEMP	NR	2/A8.06	10,11/A8.05	13/A8.05	
208	B7	4' - 0"	2' - 2"	ALUM	MILL	TEMP	NR	2/A8.06	10,11/A8.05	13/A8.05	
209	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
210	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
211	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
212	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
213	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
214	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
215	B7	4' - 0"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	11/A8.05	13/A8.05	
216	B7	3' - 8"	2' - 2"	ALUM	MILL	INS	NR	2/A8.06	10,11/A8.05	13/A8.05	
217	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	7/A8.05	
218	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
219	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
220	B3	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	7/A8.05	11/A8.05	7/A8.05	
221	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	7/A8.05	
222	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	7/A8.05	
223	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
224	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
225	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
226	L5	2' - 5"	4' - 2"	ALUM	MILL	-	-	21/A8.05	21/A8.05	21/A8.05	
227	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
228	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
229	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
230	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
231	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
232	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
233	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
234	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
235	B3	3' - 8"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	10,11/A8.05	12/A8.05	
236	L5	2' - 5"	4' - 2"	ALUM	MILL	-	-	21/A8.05	21/A8.05	21/A8.05	
237	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	7/A8.05	
238	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
239	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
240	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
241	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
242	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
243	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
244	L5	2' - 5"	4' - 2"	ALUM	MILL	-	-	21/A8.05	21/A8.05	21/A8.05	
245	L5	2' - 5"	4' - 2"	ALUM	MILL	-	-	21/A8.05	21/A8.05	21/A8.05	
246	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
247	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
248	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	7/A8.05	
249	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	7/A8.05	
250	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
251	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
252	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	7/A8.05	
253	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	10,11/A8.05	12/A8.05	
254	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	12/A8.05	ACC
255	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	12/A8.05	ACC
256	B1	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	24/A8.05	11,18/A8.05	12/A8.05	
257	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11,18/A8.05	A8.06	
258	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
259	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
260	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
261	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
262	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11,17/A8.05	A8.06	
263	C3	4' - 0"	2' - 2"	ALUM	MILL	OBS	NR	24/A8.05	11/A8.05	24/A8.05	
264	C3	4' - 0"	2' - 2"	ALUM	MILL	OBS	NR	24/A8.05	11/A8.05	24/A8.05	
265	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11,17/A8.05	A8.06	
266	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
267	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
268	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11,18/A8.05	A8.06	
269	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11,18/A8.05	12/A8.05	
270	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	12/A8.05	
271	C6	3' - 8"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	12/A8.05	
272	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	12/A8.05	
273	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	12/A8.05	ACC
274	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	12/A8.05	ACC
275	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11,18/A8.05	12/A8.05	
276	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11,18/A8.05	A8.06	
277	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
278	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
279	C3	4' - 0"	2' - 2"	ALUM	MILL	OBS	NR	24/A8.05	11/A8.05	A8.06	
280	C3	4' - 0"	2' - 2"	ALUM	MILL	OBS	NR	24/A8.05	11/A8.05	A8.06	
281	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
282	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
283	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11,18/A8.05	A8.06	
284	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11,18/A8.05	12/A8.05	
285	C7	4' - 0"	3' - 8"	ALUM	MILL	TEMP	NR	15/A8.05	10,11/A8.05	15/A8.05	
286	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	12/A8.05	ACC
287	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	12/A8.05	ACC
288	C7	4' - 0"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	11/A8.05	15/A8.05	
289	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11,18/A8.05	12/A8.05	
290	C6	4' - 0"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	11/A8.05	15/A8.05	ACC
291	C6	4' - 0"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	11/A8.05	15/A8.05	ACC
292	C5	3' - 6"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	10,11/A8.05	15/A8.05	
293	C7	4' - 0"	3' - 8"	ALUM	MILL	TEMP	NR	15/A8.05	10,11/A8.05	15/A8.05	
294	C7	4' - 0"	3' - 8"	ALUM	MILL	INS	NR	15/A8.05	11/A8.05	15/A8.05	
294a	B10	4' - 0"	6' - 2"	ALUM	MILL	OBS	NR	7/A8.05 SIM	11,18/A8.05	25/A8.05	
294b	B10	4' - 0"	6' - 2"	ALUM	MILL	OBS	NR	7/A8.05 SIM	11/A8.05	25/A8.05	
294c	B10	4' - 0"	6' - 2"	ALUM	MILL	OBS	NR	7/A8.05 SIM	11/A8.05	25/A8.05	
294d	B10	4' - 0"	6' - 2"	ALUM	MILL	OBS	NR	7/A8.05 SIM	11/A8.05	25/A8.05	
294e	L5	2' - 5"	4' - 2"	ALUM	MILL	-	NR	7/A8.05	21/A8.05	21/A8.05	
295	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	13/A8.05	
296	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
297	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
298	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
299	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	13/A8.05	
300	B1	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	7/A8.05	11/A8.05	13/A8.05	
301	B1	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	7/A8.05	11/A8.05	13/A8.05	
302	B1	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	7/A8.05	11/A8.05	13/A8.05	
303	B1	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	7/A8.05	11/A8.05	13/A8.05	
304	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	13/A8.05	
305	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
306	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
307	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
308	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
309	L5	2' - 5"	4' - 2"	ALUM	MILL	-	NR	7/A8.05	21/A8.05	21/A8.05	
310	L5	2' - 5"	4' - 2"	ALUM	MILL	-	NR	7/A8.05	21/A8.05	21/A8.05	
311	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
312	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
313	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
314	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
315	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	13/A8.05	
316	B1	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	7/A8.05	11/A8.05	13/A8.05	
317	B1	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	7/A8.05	11/A8.05	13/A8.05	
318	B1	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	7/A8.05	11/A8.05	13/A8.05	
319	B1	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	7/A8.05	11/A8.05	13/A8.05	
320	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	13/A8.05	
321	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
322	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
323	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	13/A8.05	
324	B10	4' - 0"	6' - 2"	ALUM	MILL	INS	NR	7/A8.05	10/A8.05	13/A8.05	
325	L5	2' - 5"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	18/A8.05	21/A8.05	
326	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	18/A8.05	7/A8.05	
327	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
328	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
329	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
330	B3	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	7/A8.05	11/A8.05	7/A8.05	
331	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
332	B3	3' - 8"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	7/A8.05	
333	L5	2' - 5"	4' - 2"	ALUM	MILL	INS	NR	21/A8.05	21/A8.05	21/A8.05	

WINDOW SCHEDULE

MARK	TYPE	WIDTH ± U.N.O.	HEIGHT ± U.N.O.	FRAME MAT	FRAME FIN	GLASS TYPE	FIRE RATING (MINS)	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	COMMENTS
334	L5	2' - 5"	4' - 2"	ALUM	MILL	INS	NR	21/A8.05	21/A8.05	21/A8.05	
335	B3	3' - 8"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	7/A8.05	
336	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
337	B3	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	7/A8.05	11/A8.05	7/A8.05	
338	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
339	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
340	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
341	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
342	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
343	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
344	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
345	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
346	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
347	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
348	B3	3' - 8"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	7/A8.05	
349	L5	2' - 5"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	7/A8.05	21/A8.05	
350	L5	2' - 5"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	7/A8.05	21/A8.05	
351	B3	3' - 8"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	10,11/A8.05	7/A8.05	
352	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
353	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
354	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
355	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
356	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
357	B3	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
358	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
359	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
360	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11/A8.05	7/A8.05	
361	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	7/A8.05	11,18/A8.05	7/A8.05	
362	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11,18/A8.05	A8.06	
363	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
364	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
365	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	10,11/A8.05	A8.06	
366	B1	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	24/A8.05	10,11/A8.05	12/A8.05	
367	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	12/A8.05	ACC
368	C6	3' - 8"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	10,11/A8.05	12/A8.05	ACC
369	C6	3' - 8"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	10,11/A8.05	12/A8.05	ACC
370	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	12/A8.05	ACC
371	B1	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	24/A8.05	10,11/A8.05	12/A8.05	
372	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	10,11/A8.05	A8.06	
373	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
374	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
375	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	
376	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	
377	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
378	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
379	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	10,11/A8.05	A8.06	
380	B1	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	24/A8.05	10,11/A8.05	12/A8.05	
381	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	12/A8.05	ACC
382	C6	3' - 8"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	10,11,17/A8.05	12/A8.05	ACC
383	C6	3' - 8"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	10,11,17/A8.05	12/A8.05	ACC
384	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	12/A8.05	ACC
385	B1	4' - 0"	4' - 2"	ALUM	MILL	TEMP	NR	24/A8.05	10,11/A8.05	12/A8.05	
386	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	10,11/A8.05	A8.06	
387	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
388	C6	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	11/A8.05	A8.06	ACC
389	B1	4' - 0"	4' - 2"	ALUM	MILL	INS	NR	24/A8.05	10,11,17/A8.05	A8.06	
390	C3	4' - 0"	2' - 2"	ALUM	MILL	OBS	NR	24/A8.05	11/A8.05	24/A8.05	
391	C3	4' - 0"	2' - 2"	ALUM	MILL	OBS	NR	24/A8.05	11/A8.05	24/A8.05	
392	C3	4' - 0"	2' - 2"	ALUM	MILL	OBS	NR	24/A8.05	11/A8.05	24/A8.05	
393	C3	4' - 0"	2' - 2"	ALUM	MILL	OBS	NR	24/A8.05	11,18/A8.05	24/A8.05	

SCHEDULE LEGEND

ACC = ACCESSIBLE OPERABLE
NOTE:
1. HARDWARE TO BE ACCESSIBLE TYPE.
2. MAX WINDOW SWING TO BE 4IN. PROVIDE SWING PROHIBITOR

ALUM= ALUMINUM

HM = HOLLOW METAL FRAME, SEE SPECIFICATIONS

INS = DUAL UNIT INSULATED PANEL GLAZING, SEE SPECIFICATIONS

MILL = ALUMINIUM MILL FINISH, SEE SPECIFICAIONS

NR = NOT RATED

OBS = DUAL UNIT INSULATED PANEL GLAZING WITH OBSCURE GLASS

PAINT= PRIME AND PAINT, SEE SPECIFICATIONS AND INTERIOR ELEVATIONS

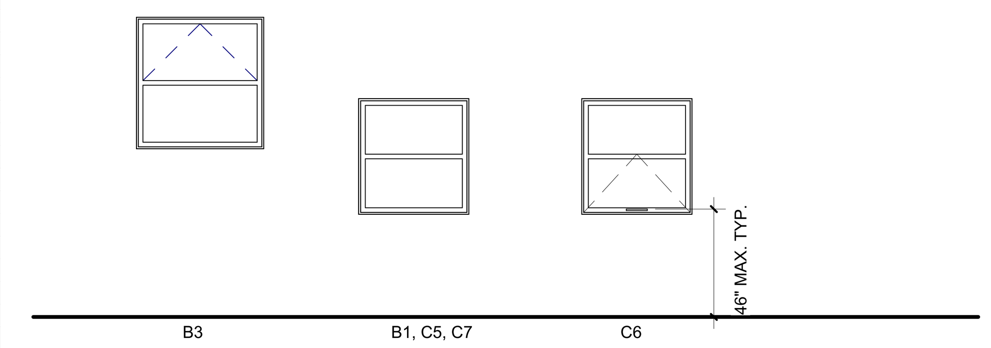
TEMP = DUAL UNIT INSULATED PANEL GLAZING WITH TEMPERED GLASS

TEMP/INT= TEMPERED SINGLE PANE GLAZING, SEE SPECIFICATIONS

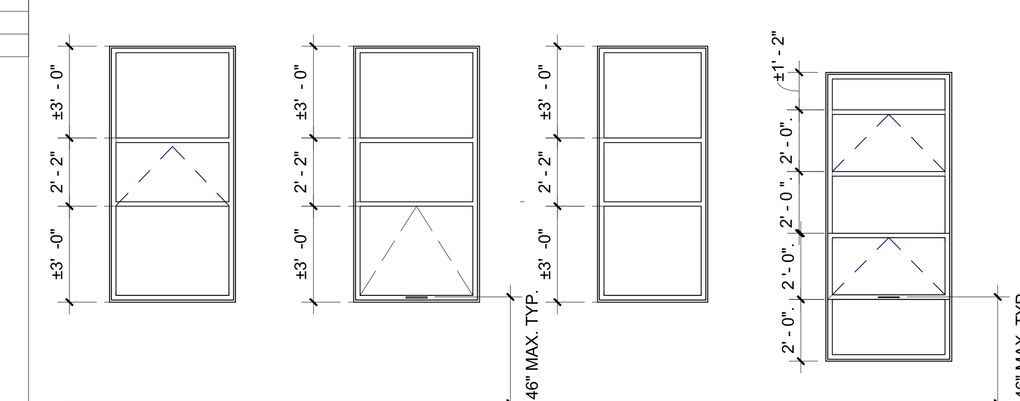
GENERAL NOTES

1. WINDOW SIZES INCLUDE SPANNING (E) STRUCTURE. SEE SHEET A8.05 & A8.06 FOR JAM DETAILS AND COVER PLATES.

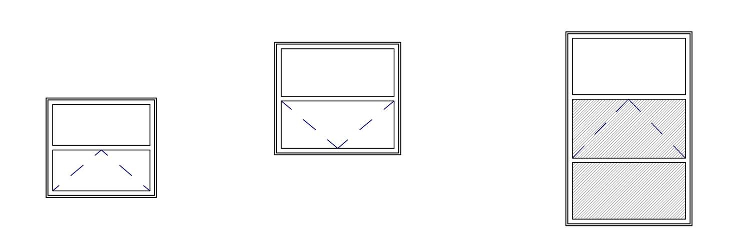
WINDOW LEGEND



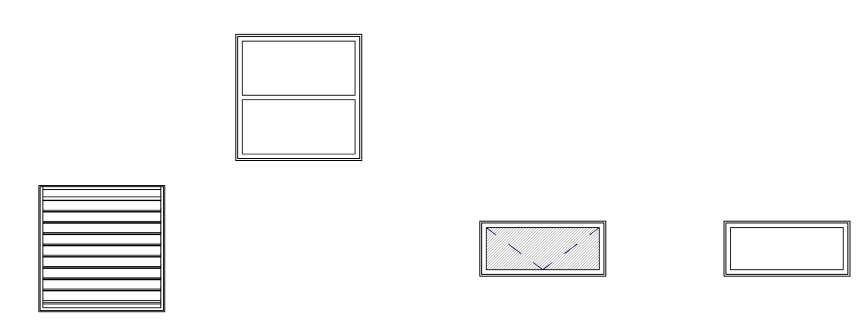
B3 | B1, C5, C7 | C6



C11 | C11a | C9 | C12



C17, C18 | C16a | B10 OBSCURED GLAZING @ RESTROOMS



L4, L5 | C13, C13a, C13b, C15, C16 | C3, C3a, C3b, OBSCURED GLAZING @ RESTROOMS | C1, B7

NOTE: PROVIDE MANUAL WINDOW SHADES PER DETAIL AND SPECIFICATIONS AT ALL NEW WINDOWS. NOT REQUIRED AT TOILET ROOM WINDOWS WITH OBSCURE GLAZING.

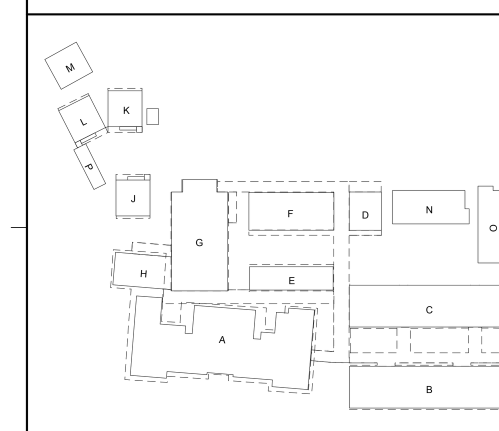
Revisions

No.	Revisions	By	Date	Appr.

BID SET
NOT FOR
CONSTRUCTION
03/11/2019

DSA APPROVAL

IDENTIFICATION STAMP
DIVISION OF STATE ARCHITECT
APPL. 01-116977
AC ____ FLS ____ SS ____
DATE ____



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Architect/Engineer Of Record:

LICENSED ARCHITECT MARCUS A. HIBSER C-27352 01-31-2021 RENEWAL DATE STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
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510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
WINDOW/LOUVER SCHEDULE

Client Project Number: Client Proj. #

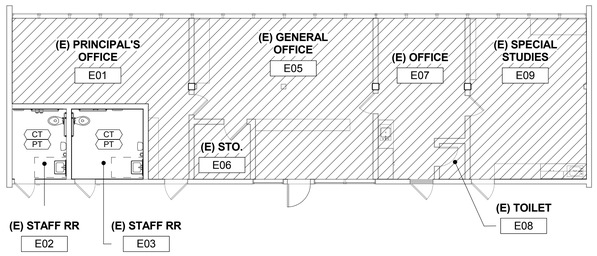
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Drawn By: OA
Checked By:CD
Issue Date: 03/11/19
Revit Version: 2017

Sheet
A2.31
Sheet 2 of 0

C:_Revit Locals\4539_Martin ES_SouthSFUSD_R17_Phase II_oahn@hy-arch.com.rvt
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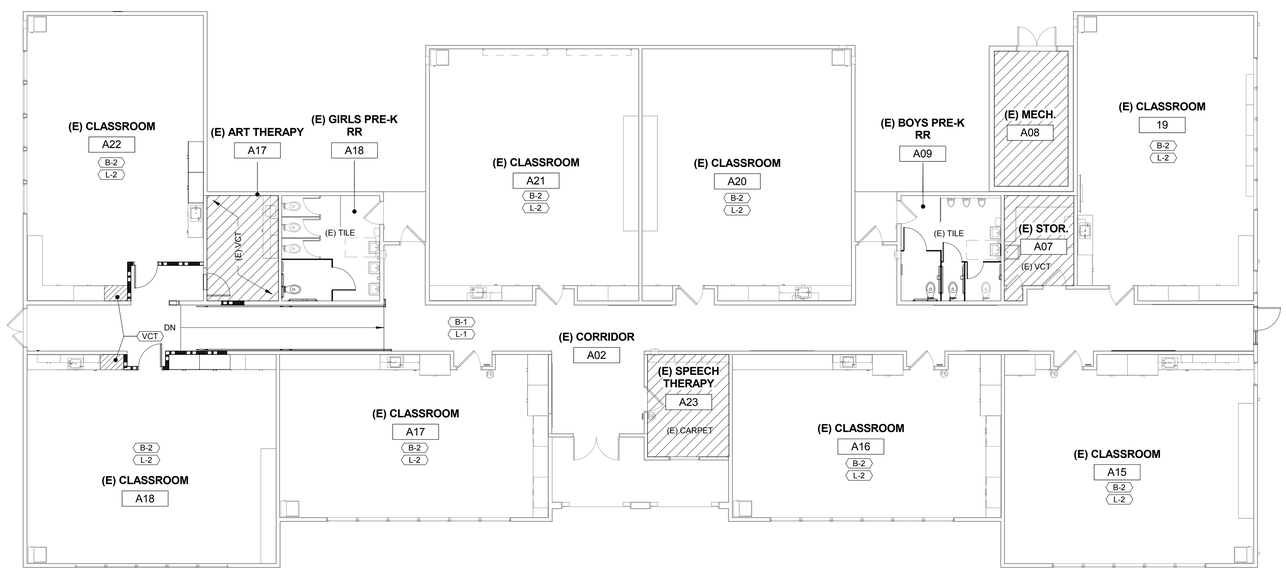
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0 5' 25' 1/8" = 1'-0"
0 1' 12' 1/4" = 1'-0"
0 1' 6' 1/2" = 1'-0"
0 4' 3/4" = 1'-0"
0 1' 3' 1" = 1'-0"
0 2' 1 1/2" = 1'-0"
0 1' 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY



12 FINISH FLOOR PLAN - BUILDING E

1/8" = 1'-0"



25 FLOOR PLAN - BUILDING A

1/8" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N..
2. REFER TO CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND COORDINATION.
3. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS.
4. PATCH AND REPAIR WALLS & FLOORS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
5. GROUT FILL ALL HOLES IN WALL AND TILE WHERE DISPENSERS OR PARTITIONS REMOVED OR RELOCATED.
6. PROTECT ALL (E) FINISHES TO REMAIN DURING CONSTRUCTION..
7. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL FINISHES INFORMATION.
8. REFER TO A9.01 FOR TOILET ACCESSORIES.
9. SEE A2.10, & A2.11 FOR OVERALL FLOOR PLANS.
10. SEE A2.25 FOR DOOR & SIGNAGE SCHEDULE.
11. PATTERNS AND COLORS TO BE CONFIRMED BY DISTRICT.

LEGEND

C-	CARPET
B-	RUBBER BASE
L-	LINOLEUM TILE
PT	PORCELAIN FLOOR TILE
CT	CERAMIC TILE WAINSCOT
VCT	VINYL COMPOSITE TILE AND RUBBER BASE, PATCH TO MATCH (E)
	NO WORK, U.O.N.

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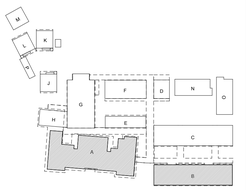
Revisions

No.	Revisions	By	Date	Appr.

BID SET
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03/11/2019

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Architect/Engineer Of Record: ____

LICENSED ARCHITECT · MATTHEW A. YAMAUCHI · C-27362 · 01-31-2021 RENEWAL DATE · STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel ¦ 510.446.2211 fax

HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

FINISH PLANS - BUILDINGS A & E

Client Project Number: Client Proj. #

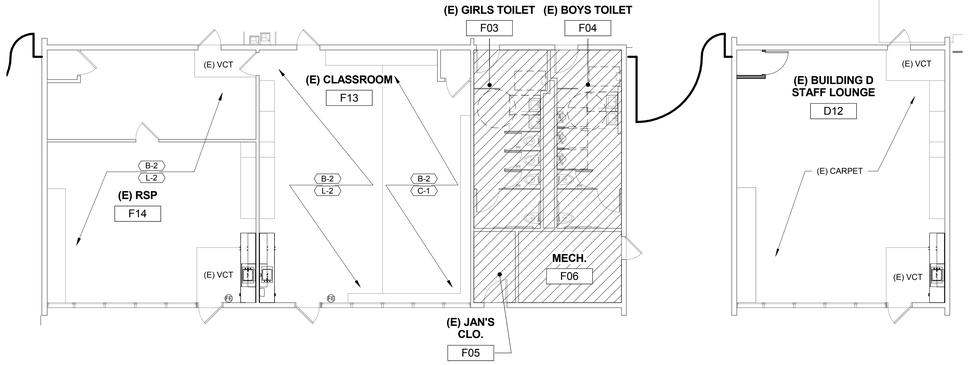
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Checked By: CD
Issue Date: 03/11/19
Revit Version: 2017

Sheet
A2.41

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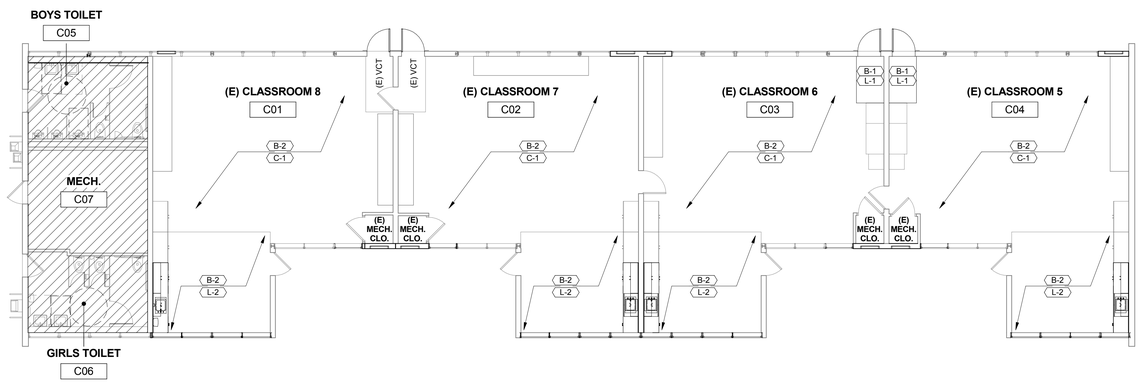
GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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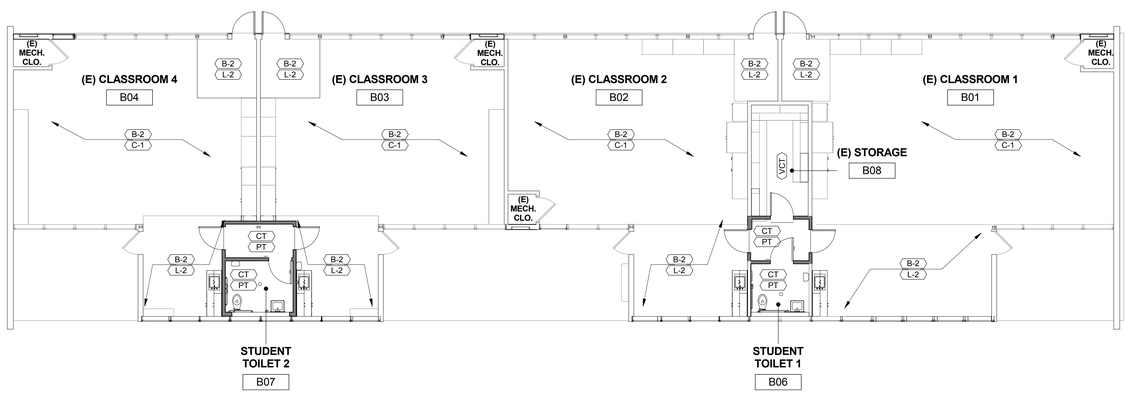
17 FLOOR PLAN - BUILDINGS D & F

1/8" = 1'-0"



23 FLOOR PLAN - BUILDING C

1/8" = 1'-0"



25 FLOOR PLAN - BUILDING B

1/8" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N..
2. REFER TO CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND COORDINATION.
3. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS.
4. PATCH AND REPAIR WALLS & FLOORS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
5. GROUT FILL ALL HOLES IN WALL AND TILE WHERE DISPENSERS OR PARTITIONS REMOVED OR RELOCATED.
6. PROTECT ALL (E) FINISHES TO REMAIN DURING CONSTRUCTION..
7. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL FINISHES INFORMATION.
8. REFER TO A9.01 FOR TOILET ACCESSORIES.
9. SEE A2.10, & A2.11 FOR OVERALL FLOOR PLANS.
10. SEE A2.25 FOR DOOR & SIGNAGE SCHEDULE.
11. PATTERNS AND COLORS TO BE CONFIRMED BY DISTRICT.

LEGEND

C-	CARPET
B-	RUBBER BASE
L-	LINOLEUM TILE
PT	PORCELAIN FLOOR TILE
CT	CERAMIC TILE WAINSCOT
VCT	VINYL COMPOSITE TILE AND RUBBER BASE, PATCH TO MATCH (E)
	NO WORK, U.O.N.

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LICENSED ARCHITECT
MARCUS A. HIBSER
C-27362
01-31-2021
RENEWAL DATE
STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

FINISH PLANS - BUILDINGS B, C, D & F

Client Project Number: Client Proj. #

Scale: As indicated
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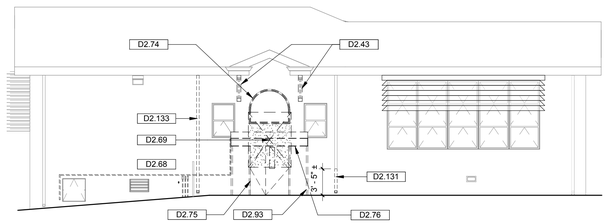
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A2.42

3/11/2019 11:16:37 AM C:_Revit Locals\4539_Martin ES_SouthSFUSD_R17_Phase II_oahn@hy-arch.com.rvt

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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23 BUILDING A - DEMO EAST ELEVATION

1/8" = 1'-0"



24 BUILDING A - DEMO SOUTH ELEVATION

1/8" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N.
2. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND COORDINATION.
3. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS.
4. PATCH AND REPAIR WALLS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
5. PROTECT ALL (E) FINISHES TO REMAIN DURING CONSTRUCTION.
6. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK.
7. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
8. SEE DIVISION 1 FOR ALLOWANCE AND UNIT COST REQUIREMENTS FOR DRY ROT REPLACEMENT.

KEYNOTES

DEMO

DEMOLITION

D2.43	REMOVE (E) WOOD TRIM BRACKET
D2.68	(E) EXPOSED CONDUITS AND RELATED TO BE RE-ROUTED. S.E.D. S.P.D.
D2.69	(N) OPENING IN (E) WALL. SEE 23/A3.04
D2.74	REMOVE (E) WINDOW.
D2.75	REMOVE (E) DOOR AND ASSOCIATED FRAMING.
D2.76	REMOVE PORTION OF (E) COVER WALK, S.S.D.
D2.93	REMOVE (E) STEEL PIPE COLUMNS AND ASSOCIATED FOOTINGS. TYP. OF (4).
D2.94	PROTECT (E) STRUCTURE WHEN REMOVING (E) PORTION OF COVERED WALK.
D2.131	REMOVE PORTION OF (E) RWL
D2.133	REMOVE (E) RWL FOR REPLACEMT.

LEGEND

(E) WINDOW TO BE REMOVED

AREA OF WALL AND FINISHES TO BE REMOVED

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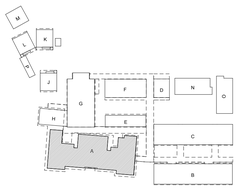
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LICENSED ARCHITECT MARCUS A. HIBSER C-27362 01-31-2021 RENEWAL DATE STATE OF CALIFORNIA

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HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

EXTERIOR ELEVATIONS
DEMO - BUILDING A

Client Project Number: Client Proj. #

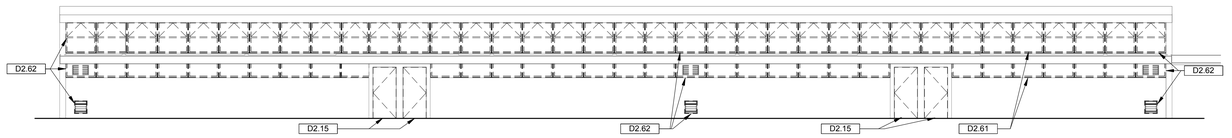
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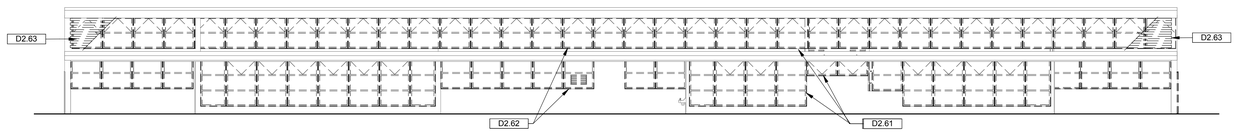
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0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"
0 5' 25' 1/8" = 1'-0"
0 1' 12' 1/4" = 1'-0"
0 1' 6' 1/2" = 1'-0"
0 4' 3/4" = 1'-0"
0 1' 3' 1" = 1'-0"
0 2' 1 1/2" = 1'-0"
0 1' 3" = 1'-0"

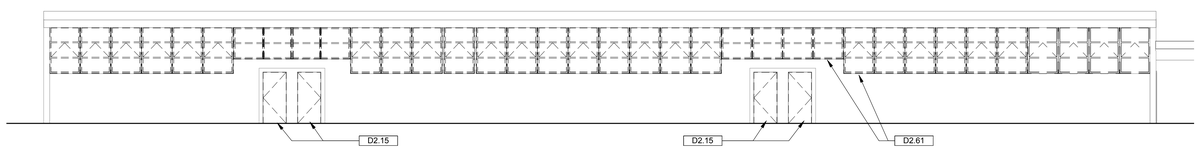
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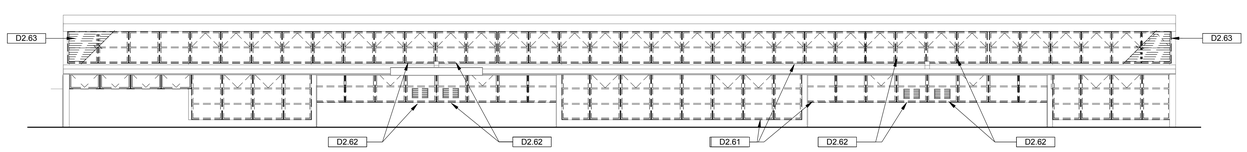
22 BUILDING B - NORTH DEMO
1/8" = 1'-0"



23 BUILDING B - SOUTH DEMO
1/8" = 1'-0"



24 BUILDING C - NORTH DEMO
1/8" = 1'-0"



25 BUILDING C - SOUTH DEMO
1/8" = 1'-0"

GENERAL NOTES

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7. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
8. SEE DIVISION 1 FOR ALLOWANCE AND UNIT COST REQUIREMENTS FOR DRY ROT REPLACEMENT.

KEYNOTES DEMO

D2.15 PROTECT AND STORE WHEN REMOVING (E) DOOR. ASSOCIATED HARDWARE AND ROOM SIGNAGE FOR REINSTALLATION. PROTECT (E) WOOD FRAME TO REMAIN. STORE AND PROTECT. REMOVE (E) 3/4" CONCRETE INTEGRAL THRESHOLD.
D2.61 REMOVE (E) STEEL FRAMED WINDOWS, TYP U.O.N.. DEDUCTIVE ALTERNATIVE (1).
D2.62 REMOVE (E) STEEL FRAMED WINDOWS AND LOUVERS.
D2.63 REMOVE (E) EXTERIOR STEEL LOUVER SYSTEM. DEDUCTIVE ALTERNATIVE (1).

LEGEND

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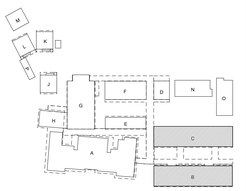
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Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
EXTERIOR ELEVATIONS DEMO - BUILDINGS B & C

Client Project Number: Client Proj. #

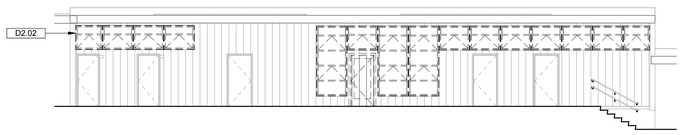
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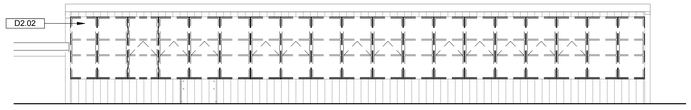
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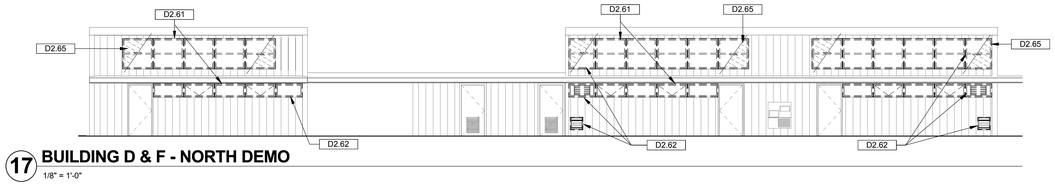
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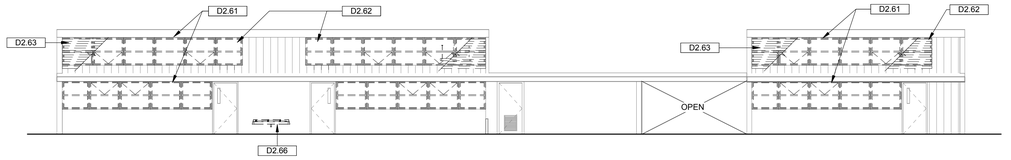
21 BUILDING E - SOUTH DEMO
1/8" = 1'-0"



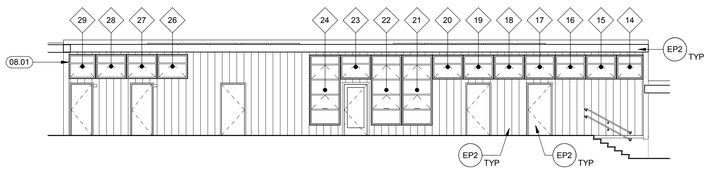
11 BUILDING E - NORTH DEMO
1/8" = 1'-0"



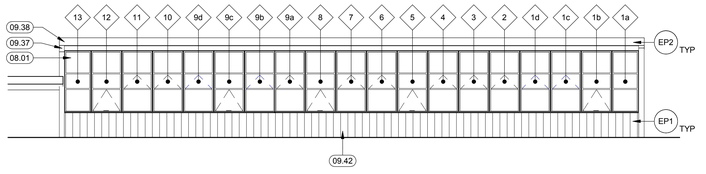
17 BUILDING D & F - NORTH DEMO
1/8" = 1'-0"



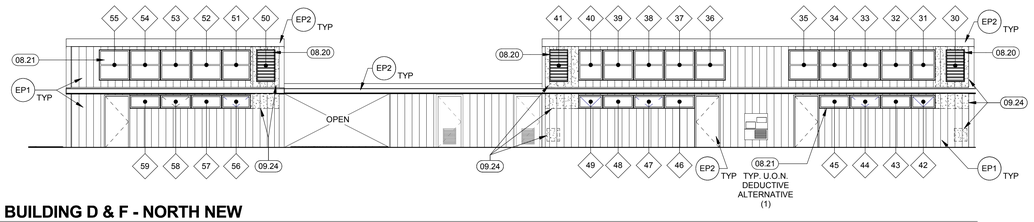
18 BUILDING D & F - SOUTH DEMO
1/8" = 1'-0"



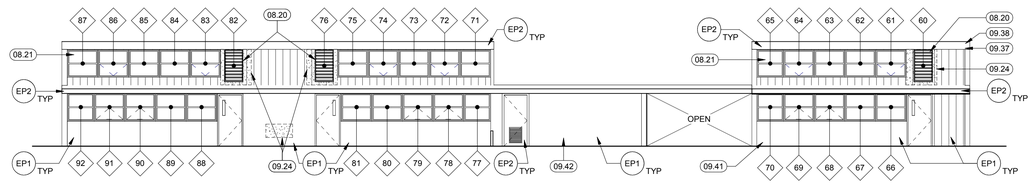
23 BUILDING E - SOUTH NEW
1/8" = 1'-0"



13 BUILDING E - NORTH NEW
1/8" = 1'-0"



19 BUILDING D & F - NORTH NEW
1/8" = 1'-0"



20 BUILDING D & F - SOUTH NEW
1/8" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N.
2. SEE A1.03 & A1.04 FOR MAIN ENTRY TO CAMPUS, FOR ADDITIONAL INFORMATION.
3. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND COORDINATION.
4. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS.
5. PATCH AND REPAIR WALLS TO MATCH THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION. NEW PAINT COLORS TO BE AGREED BY ARCHITECT. NEW PAINT COLORS TO BE AGREED BY ARCHITECT.
6. PROTECT ALL (E) FINISHES TO REMAIN DURING CONSTRUCTION.
7. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
8. SEE ROOF PLAN FOR SLOPES AND ADDITIONAL INFORMATION.
9. SEE WINDOW AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
10. SEE CIVIL DRAWINGS FOR SITE GRADING.
11. FLASH/SEAL WATERTIGHT ALL WALL PENETRATIONS WHERE MECHANICAL DUCTING, PIPING, ETC. PENETRATE THE BUILDING.
12. FOR EXTERIOR WALL SIGNAGE SEE DOOR SCHEDULE.
13. OPERABLE WINDOWS TO PROTRUDE 4" MAX FROM FACE OF WALL CURB WHEN FULLY OPENED.
14. SEE DIVISION 1 FOR ALLOWANCE AND UNIT COST REQUIREMENTS FOR DRY ROT REPLACEMENT.

DEMO KEYNOTES (DEMO)

D2.02 REMOVE (E) STEEL FRAMED WINDOWS. TYP. ALL U.O.N.
D2.61 REMOVE (E) STEEL FRAMED WINDOWS, TYP U.O.N.. DEDUCTIVE ALTERNATIVE (1).
D2.62 REMOVE (E) STEEL FRAMED WINDOWS AND LOUVERS.
D2.63 REMOVE (E) EXTERIOR STEEL LOUVER SYSTEM. DEDUCTIVE ALTERNATIVE (1).
D2.65 REMOVE (E) INTERIOR STEEL LOUVER SYSTEM. DEDUCTIVE ALTERNATIVE (1).
D2.66 REMOVE (E) DRINKING FOUNTAIN. CAP ALL SERVICES BEHIND FINISH.

REMODEL KEYNOTES (REMODEL)

08.01 (N) ALUMINUM FRAMED WINDOW, SEE WINDOW SCHEDULE, TYP.
08.20 DRAINABLE LOUVER, SEE A2.31 FOR LOCATIONS AND DETAILS. S.M.D. FOR ADDITIONAL INTAKE AND RELIEF INFORMATION.
08.21 ALUMINUM FRAMED WINDOW, TYP. U.O.N. DEDUCTIVE ALTERNATIVE (1), SEE WINDOW SCHEDULE.
09.24 (N) WOOD FRAMED INFILL, PAINT TO MATCH (E) ADJACENT BOARD AND BATTEN EXTERIOR AND GYP. BD. INTERIOR. S.S.D.
09.37 PATCH AND PREPARE (E) EXTERIOR WOOD TRIM FOR NEW PAINT, TYP WHERE OCCURS ON ENTIRE BUILDING. SEE EXT PAINT NOTES.
09.38 PATCH AND PREPARE (E) EXTERIOR METAL TRIM, FASCIA, GUTTERS AND RAIN WATER LEADERS FOR NEW PAINT WHERE OCCURS ON ENTIRE BUILDING. SEE EXT PAINT NOTES.
09.41 PATCH AND PREPARE (E) EXTERIOR PAINTED CONC FOR NEW PAINT, TYP WHERE OCCURS ON ENTIRE BUILDING. SEE EXT PAINT NOTES.
09.42 PATCH AND PREPARE (E) EXTERIOR BOARD AND BATTENS. SEE EXT PAINT NOTES.

PAINT LEGEND

EP1 EXTERIOR PAINT: GREY PEARL DEC795
EP2 EXTERIOR PAINT: FRESH EGGPLANT DEC744

ALL FASCIA = EP2 UON
DOOR = EP2 UON
ALL METAL PAINTED COLUMN = EP2 UON
ALL BUILDING ROOF OVERHANGS AND UNDERSIDE OF WALKWAYS AND PORTICO = EP1 UON

EXTERIOR PAINTING NOTES

1. PAINT ENTIRE EXTERIOR OF ALL EXISTING BUILDINGS, INCLUDING BUILDING OVERHANGS, COLUMNS. PAINT ALLEXISTING VOERED WALKWAY AND PORTICO STRUCTURES; INCLUDING:
   - BUILDING A
   - BUILDING B
   - BUILDING C
   - BUILDING D
   - BUILDING E
   - BUILDING F
   - BUILDING G, INCLUDING METAL ROOF
   - BUILDING H
   - BUILDING J
   - BUILDING K
   - BUILDING L
   - BUILDING M
   - ALL COVERED WALWAYS
2. POWER SPRAY WASH ALL BUILDING SURFACES THAT ARE TO BE PAINTED.
3. CLEAN AND PREPARE ALL EXISTING SURFACES PER SPECIFICATIONS.
4. LISTED BELOW ARE SURFACES TO RECEIVE PAINT AND ARE SPECIFIC TO THE BUILDINGS AND STRUCTURES IDENTIFIED ABOVE. ALL SURFACES TO BE PAINTED PER SPECIFICATIONS. CONTRACTOR TO REFER TO DRAWINGS AND SPECIFICATIONS FOR POSSIBLE ADDITIONAL SURFACES TO RECEIVE PAINT NOT LISTED BELOW.
   - ALL EXPOSED PIPES, CONDUITS & EXPOSED WOOD BLOCKING
   - ALL EXTERIOR CABINETS, ENCLOSURE ATTACHED TO BUILDINGS OR FREE STANDING.
   - ALL WOOD SIDING AND TRIM
   - ALL EXPOSED METAL FLASHING, GUTTERS & DOWN SPOUTS
   - ALL BUILDING, COVERED WALKWAY & PORTICO CEMENT PLASTER SOFFITS AND CEILINGS, UON.
5. CONTRACTOR TO SURVEY AND FIELD MEASURE/VERIFY ALL BUILDING CONDITIONS TO QUANTIFY SCOPE OF THIS PROJECT PRIOR TO SUBMITTING BID.
6. REMOVE AND REINSTALL ALL BUILDING SIGNAGE AS REQUIRED FOR WORK.
7. PROTECT ALL WALL MOUNTED LIGHTING FIXTURES AND DEVICES DURING WORK.
8. PROTECT PLANTING ADJACENT TO BUILDING EXTERIOR DURING WORK.

LEGEND

A1 WINDOW MARK, SEE WINDOW SCHEDULE A2.31
OPERABLE WINDOW
WINDOW WITH OBSCURED GLAZING
AREA OF WALL WITH INFILL, PATCH AND PAINT.

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Revisions

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HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
EXTERIOR ELEVATIONS DEMO AND NEW - BUILDINGS D, E & F

Client Project Number: Client Proj. #

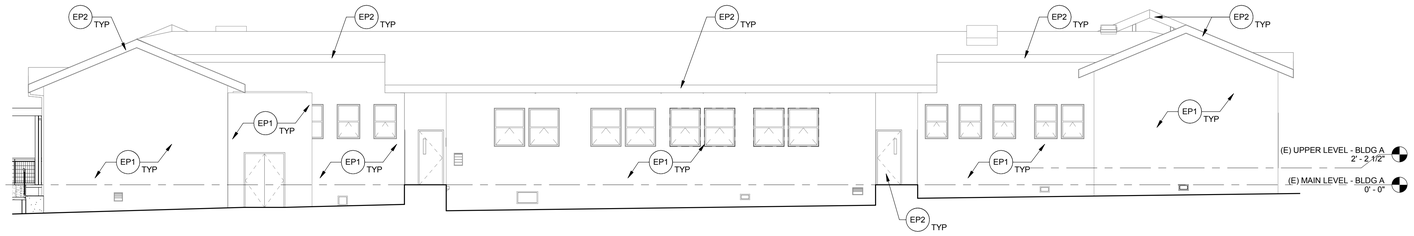
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Issue Date: 03/11/19
Revit Version: 2017

Sheet
A3.03

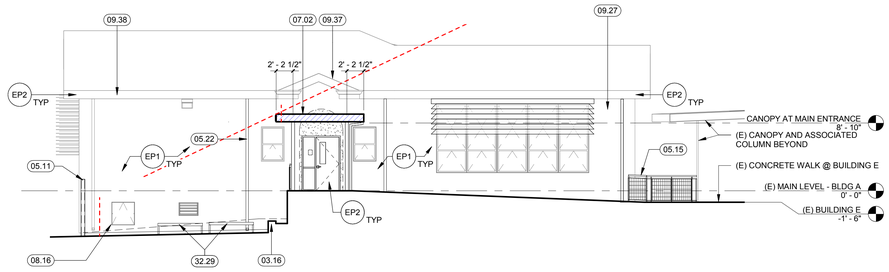
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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

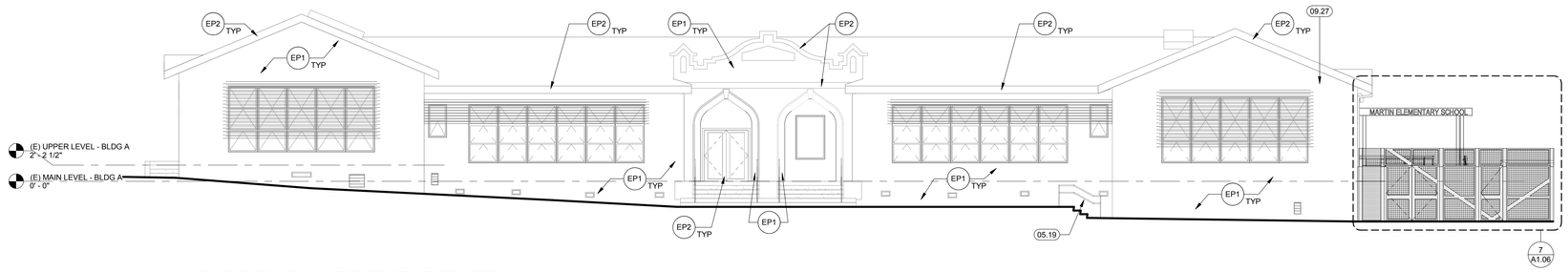
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22 BUILDING A - NEW NORTH ELEVATION
1/8" = 1'-0"



23 BUILDING A - NEW EAST ELEVATION
1/8" = 1'-0"



24 BUILDING A - NEW SOUTH ELEVATION
1/8" = 1'-0"



25 BUILDING A - NEW WEST ELEVATION
1/8" = 1'-0"

GENERAL NOTES

1. SEE A1.03 & A1.04 FOR MAIN ENTRY TO CAMPUS, FOR ADDITIONAL INFORMATION.
2. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND COORDINATION.
3. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS.
4. PATCH AND REPAIR WALLS AND APPURTENANCES IN PREPARATION OF NEW PAINT. NEW PAINT COLORS TO BE AGREED BY ARCHITECT.
5. PROTECT ALL (E) FINISHES TO REMAIN DURING CONSTRUCTION.
6. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
7. SEE WINDOW AND DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
8. SEE CIVIL DRAWINGS FOR SITE GRADING.
9. FLASH/SEAL WATERTIGHT ALL WALL PENETRATIONS WHERE MECHANICAL DUCTING, PIPING, ETC. PENETRATE THE BUILDING.
10. FOR EXTERIOR WALL SIGNAGE SEE DOOR SCHEDULE.
11. OPERABLE WINDOWS TO PROTRUDE 4" MAX FROM FACE OF WALL CURB WHEN FULLY OPENED.
12. SEE DIVISION 1 FOR ALLOWANCE AND UNIT COST REQUIREMENTS FOR DRY ROT REPLACEMENT.

KEYNOTES (REMODEL)

03.16	CONC SEAT WALL, S.L.D.
05.11	GATE: SEE SHEET A1.06.
05.15	GUARDRAIL, 42" HIGH, SEE 7/A1.05
05.19	(E) HANDRAILS AT STAIR, PER DSA APP. 01-116354
05.22	PAINTED GSM RWL TO MATCH (E).
07.02	WOOD FRAMED CANOPY, W/ BUILT-UP ROOFING, SEE 13 & 15/A8.01. SEE STRUCTURAL DRAWINGS
08.16	(E) CRAWL SPACE ACCESS PANEL TO REMAIN, PAINT TO MATCH (E)
09.27	PATCH AND PREPARE EXTERIOR WALLS FOR NEW PAINT O/ (E) CEMENT PLASTER, TYP FOR ENTIRE BUILDING. SEE EXT PAINT NOTES.
09.37	PATCH AND PREPARE (E) EXTERIOR WOOD TRIM FOR NEW PAINT, TYP WHERE OCCURS ON ENTIRE BUILDING. SEE EXT PAINT NOTES.
09.38	PATCH AND PREPARE (E) EXTERIOR METAL TRIM, FASCIA, GUTTERS AND RAIN WATER LEADERS FOR NEW PAINT WHERE OCCURS ON ENTIRE BUILDING. SEE EXT PAINT NOTES.
32.29	6' - 0" LONG BENCH

PAINT LEGEND

EP1	EXTERIOR PAINT: GREY PEARL DEC795
EP2	EXTERIOR PAINT: FRESH EGGPLANT DEC744
ALL FASCIA =	EP2 UON
DOOR =	EP2 UON
ALL METAL PAINTED COLUMN =	EP2 UON
ALL BUILDING ROOF OVERHANGS AND UNDERSIDE OF WALKWAYS AND PORTICO =	EP1 UON

EXTERIOR PAINTING NOTES

1. PAINT ENTIRE EXTERIOR OF ALL EXISTING BUILDINGS, INCLUDING BUILDING OVERHANGS, COLUMNS. PAINT ALLEXISTING VOERED WALKWAY AND PORTICO STRUCTURES. INCLUDING:
   - BUILDING A
   - BUILDING B
   - BUILDING C
   - BUILDING D
   - BUILDING E
   - BUILDING F
   - BUILDING G, INCLUDING METAL ROOF
   - BUILDING H
   - BUILDING J
   - BUILDING K
   - BUILDING L
   - BUILDING M
   - ALL COVERED WALWAYS
2. POWER SPRAY WASH ALL BUILDING SURFACES THAT ARE TO BE PAINTED.
3. CLEAN AND PREPARE ALL EXISTING SURFACES PER SPECIFICATIONS.
4. LISTED BELOW ARE SURFACES TO RECEIVE PAINT AND ARE SPECIFIC TO THE BUILDINGS AND STRUCTURES IDENTIFIED ABOVE. ALL SURFACES TO BE PAINTED PER SPECIFICATIONS. CONTRACTOR TO REFER TO DRAWINGS AND SPECIFICATIONS FOR POSSIBLE ADDITIONAL SURFACES TO RECEIVE PAINT NOT LISTED BELOW.
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LEGEND

AREA OF WALL WITH INFILL, PATCH AND PAINT.

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LICENSED ARCHITECT ANDREW A. YEE C-27362 01-31-2021 RENEWAL DATE STATE OF CALIFORNIA

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510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
EXTERIOR ELEVATIONS NEW - BUILDING A

Client Project Number: Client Proj. #

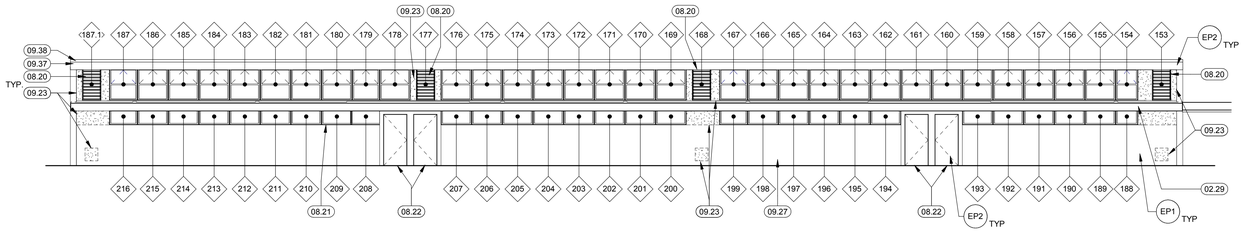
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Issue Date: 03/11/19
Revit Version: 2017

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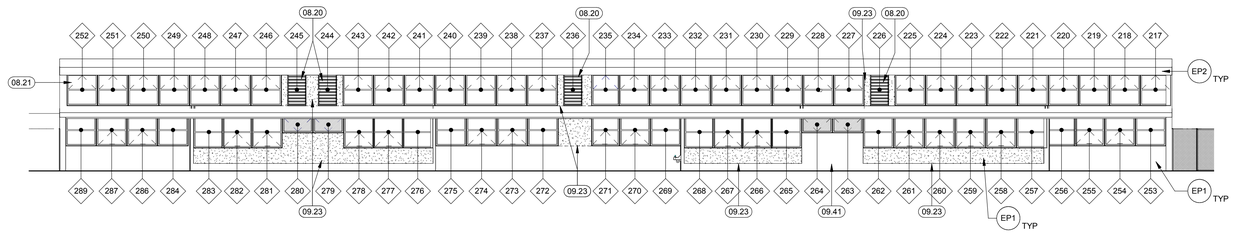
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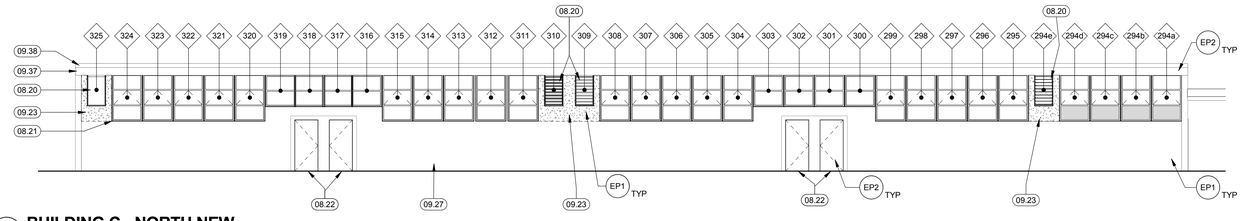
22 BUILDING B - NORTH NEW

1/8" = 1'-0"



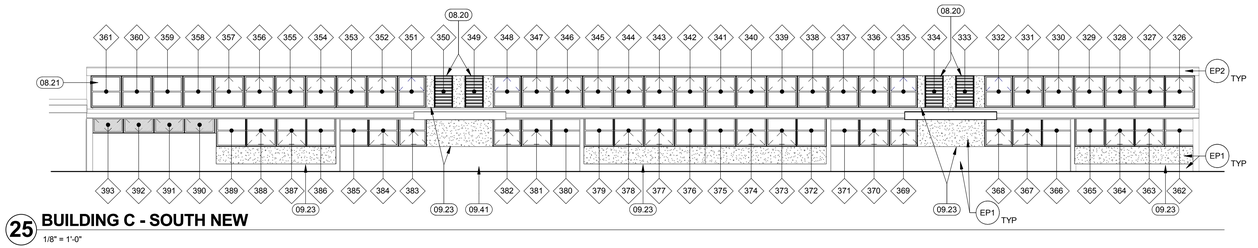
23 BUILDING B - SOUTH NEW

1/8" = 1'-0"



24 BUILDING C - NORTH NEW

1/8" = 1'-0"



25 BUILDING C - SOUTH NEW

1/8" = 1'-0"

GENERAL NOTES

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KEYNOTES (REMODEL)

02.29 (E) COVERED WALK.
08.20 DRAINABLE LOUVER, SEE A2.31 FOR LOCATIONS AND DETAILS. S.M.D. FOR ADDITIONAL INTAKE AND RELIEF INFORMATION.
08.21 ALUMINUM FRAMED WINDOW, TYP. U.O.N. DEDUCTIVE ALTERNATIVE (1), SEE WINDOW SCHEDULE.
08.22 REINSTALL (E) DOOR IN (E) DOOR FRAME - OPP. HAND FOR ACCESSIBLE CLEARANCES. PATCH AND PAINT (E) FRAME IF TO MATCH (E) ADJACENT FINISHES.
09.23 (N) WOOD FRAMED INFILL, PAINT TO MATCH (E) ADJACENT CEMENT PLASTER OR PAINTED CONCRETE EXTERIOR AND GYP. BD. INTERIOR. S.S.D.
09.27 PATCH AND PREPARE EXTERIOR WALLS FOR NEW PAINT O/ (E) CEMENT PLASTER, TYP FOR ENTIRE BUILDING. SEE EXT PAINT NOTES.
09.37 PATCH AND PREPARE (E) EXTERIOR WOOD TRIM FOR NEW PAINT, TYP WHERE OCCURS ON ENTIRE BUILDING. SEE EXT PAINT NOTES.
09.38 PATCH AND PREPARE (E) EXTERIOR METAL TRIM, FASCIA, GUTTERS AND RAIN WATER LEADERS FOR NEW PAINT WHERE OCCURS ON ENTIRE BUILDING. SEE EXT PAINT NOTES.
09.41 PATCH AND PREPARE (E) EXTERIOR PAINTED CONC FOR NEW PAINT, TYP WHERE OCCURS ON ENTIRE BUILDING. SEE EXT PAINT NOTES.

PAINT LEGEND

EP1 EXTERIOR PAINT: GREY PEARL DEC795
EP2 EXTERIOR PAINT: FRESH EGGPLANT DEC744

ALL FASCIA = EP2 UON
DOOR = EP2 UON
ALL METAL PAINTED COLUMN = EP2 UON
ALL BUILDING ROOF OVERHANGS AND UNDERSIDE OF WALKWAYS AND PORTICO = EP1 UON

EXTERIOR PAINTING NOTES

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   - BUILDING C
   - BUILDING D
   - BUILDING E
   - BUILDING F
   - BUILDING G, INCLUDING METAL ROOF
   - BUILDING H
   - BUILDING J
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LEGEND

A1 WINDOW MARK, SEE WINDOW SCHEDULE A2.31
OPERABLE WINDOW
WINDOW WITH OBSCURED GLAZING
AREA OF WALL WITH INFILL, PATCH AND PAINT.

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LICENSED ARCHITECT — ANDREW A. HIBSER — C-27352 — 01-31-2021 RENEWAL DATE — STATE OF CALIFORNIA

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Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
EXTERIOR ELEVATIONS NEW - BUILDINGS B & C

Client Project Number: Client Proj. #

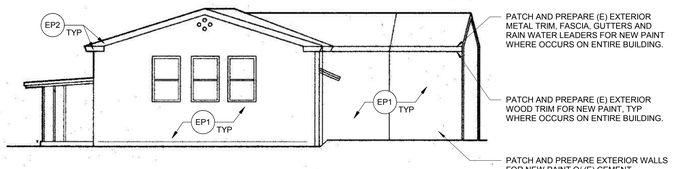
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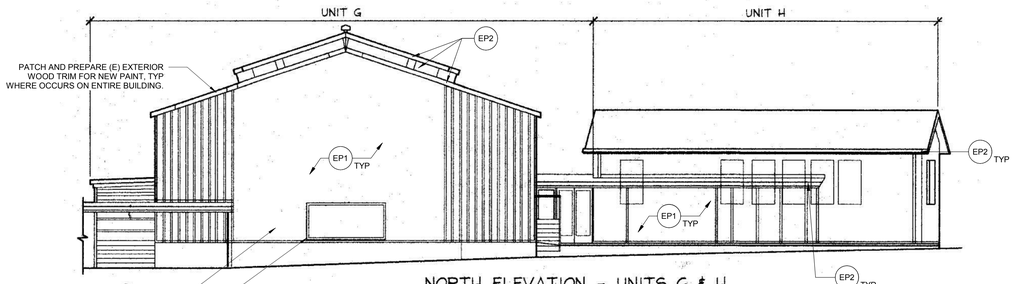


PATCH AND PREPARE (E) EXTERIOR METAL TRIM, FASCIA, GUTTERS AND RAIN WATER LEADERS FOR NEW PAINT WHERE OCCURS ON ENTIRE BUILDING.

PATCH AND PREPARE (E) EXTERIOR WOOD TRIM FOR NEW PAINT, TYP WHERE OCCURS ON ENTIRE BUILDING.

PATCH AND PREPARE EXTERIOR WALLS FOR NEW PAINT O/ (E) CEMENT PLASTER, TYP FOR ENTIRE BUILDING.

WEST ELEVATION - UNIT H
SCALE: 1/8" = 1'-0"

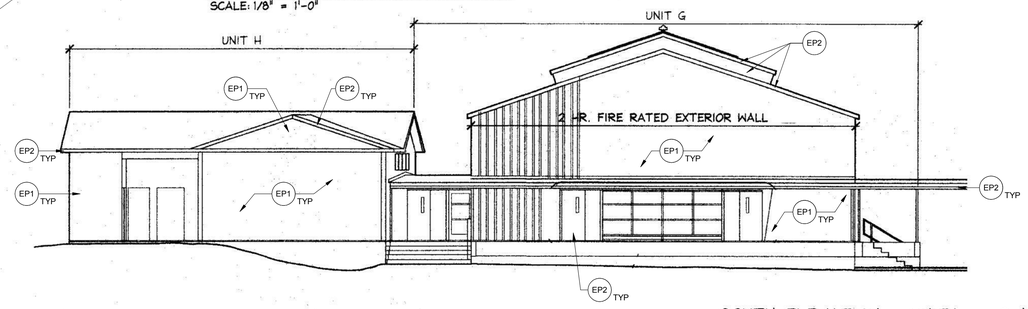


PATCH AND PREPARE (E) EXTERIOR WOOD TRIM FOR NEW PAINT, TYP WHERE OCCURS ON ENTIRE BUILDING.

PATCH AND PREPARE (E) EXTERIOR BOARD AND BATTENS.

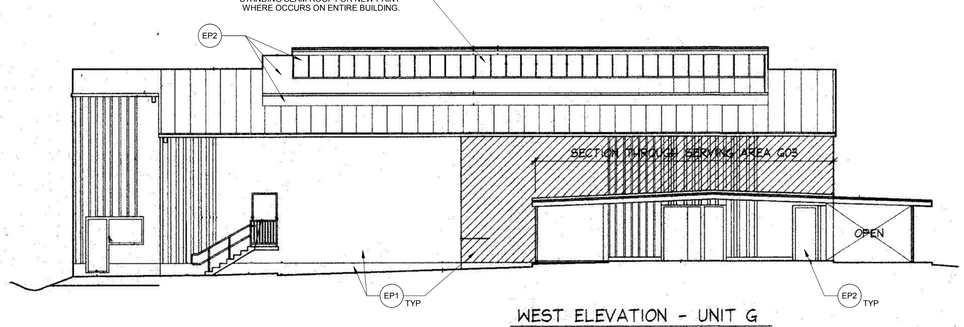
PATCH AND PREPARE (E) EXTERIOR METAL TRIM, FASCIA, GUTTERS AND RAIN WATER LEADERS FOR NEW PAINT WHERE OCCURS ON ENTIRE BUILDING.

NORTH ELEVATION - UNITS G & H
SCALE: 1/8" = 1'-0"

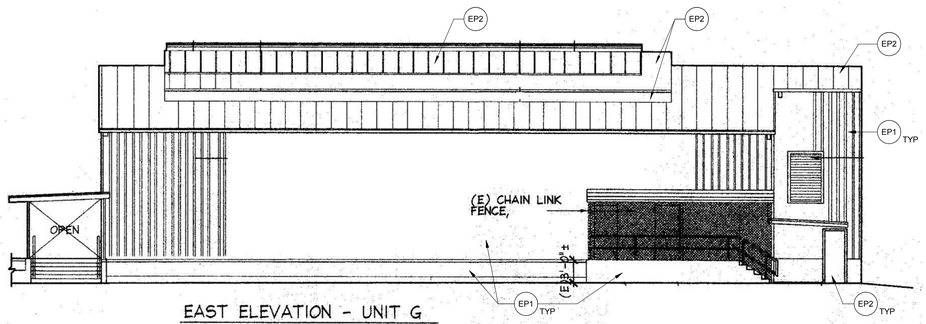


SOUTH ELEVATION - UNITS G & H
SCALE: 1/8" = 1'-0"

PATCH AND PREPARE (E) METAL STANDING SEAM ROOF FOR NEW PAINT WHERE OCCURS ON ENTIRE BUILDING.



WEST ELEVATION - UNIT G
SCALE: 1/8" = 1'-0"



EAST ELEVATION - UNIT G
SCALE: 1/8" = 1'-0"

30 (E) BLDGS G & H ELEVATIONS
1/8" = 1'-0"

GENERAL NOTES

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PAINT LEGEND

EP1 EXTERIOR PAINT: GREY PEARL DEC795

EP2 EXTERIOR PAINT: FRESH EGGPLANT DEC744

ALL FASCIA = EP2 UON

DOOR = EP2 UON

ALL METAL PAINTED COLUMN = EP2 UON

ALL BUILDING ROOF OVERHANGS AND UNDERSIDE OF WALKWAYS AND PORTICO = EP1 UON

EXTERIOR PAINTING NOTES

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   - BUILDING B
   - BUILDING C
   - BUILDING D
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   - BUILDING F
   - BUILDING G, INCLUDING METAL ROOF
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   - ALL COVERED WALWAYS
2. POWER SPRAY WASH ALL BUILDING SURFACES THAT ARE TO BE PAINTED.
3. CLEAN AND PREPARE ALL EXISTING SURFACES PER SPECIFICATIONS.
4. LISTED BELOW ARE SURFACES TO RECEIVE PAINT AND ARE SPECIFIC TO THE BUILDINGS AND STRUCTURES IDENTIFIED ABOVE. ALL SURFACES TO BE PAINTED PER SPECIFICATIONS. CONTRACTOR TO REFER TO DRAWINGS AND SPECIFICATIONS FOR POSSIBLE ADDITIONAL SURFACES TO RECEIVE PAINT NOT LISTED BELOW.
   - ALL EXPOSED PIPES, CONDUITS & EXPOSED WOOD BLOCKING
   - ALL EXTERIOR CABINETS, ENCLOSURE ATTACHED TO BUILDINGS OR FREE STANDING.
   - ALL WOOD SIDING AND TRIM
   - ALL EXPOSED METAL FLASHING, GUTTERS & DOWN SPOUTS
   - ALL BUILDING, COVERED WALKWAY & PORTICO CEMENT PLASTER SOFFITS AND CEILINGS, UON.
5. CONTRACTOR TO SURVEY AND FIELD MEASURE/VERIFY ALL BUILDING CONDITIONS TO QUANTIFY SCOPE OF THIS PROJECT PRIOR TO SUBMITTING BID.
6. REMOVE AND REINSTALL ALL BUILDING SIGNAGE AS REQUIRED FOR WORK.
7. PROTECT ALL WALL MOUNTED LIGHTING FIXTURES AND DEVICES DURING WORK.
8. PROTECT PLANTING ADJACENT TO BUILDING EXTERIOR DURING WORK.

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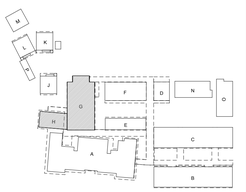
Revisions

No.	Revisions	By	Date	Appr.

BID SET
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03/11/2019

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Architect/Engineer Of Record: ____

LICENSED ARCHITECT MARCUS A. HIBSER C-27352 01-31-2021 RENEWAL DATE STATE OF CALIFORNIA

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HY Architects Project number: 4539

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MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
EXTERIOR ELEVATIONS

Client Project Number: Client Proj. #

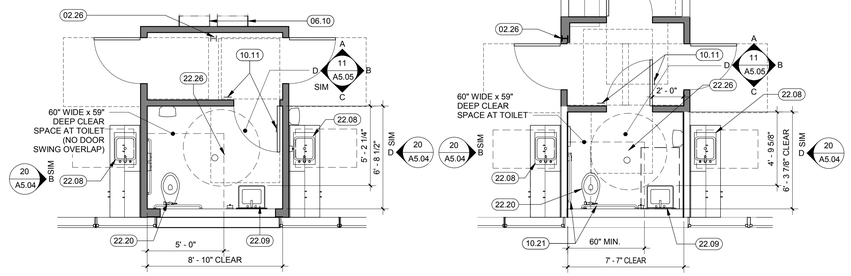
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Revit Version: 2017

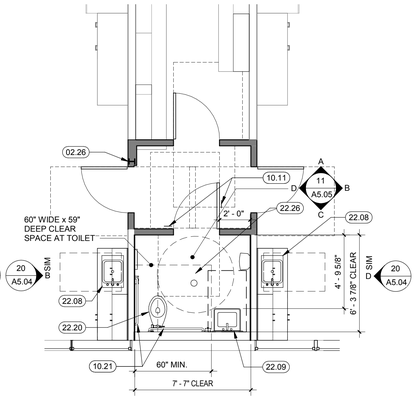
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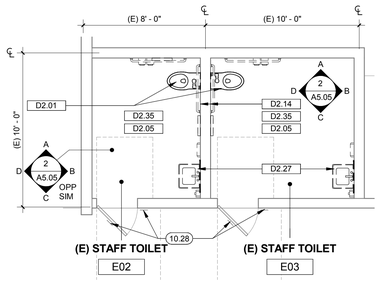
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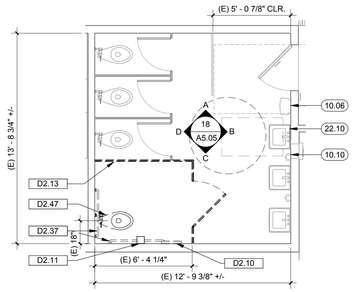
22 BLDG B - KINDER RR 2

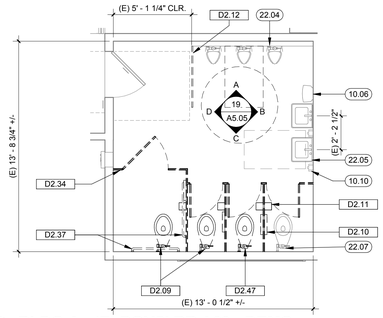
1/4" = 1'-0"



17 (E) BLDG B - (N) STUDENT TOILET 1 B06

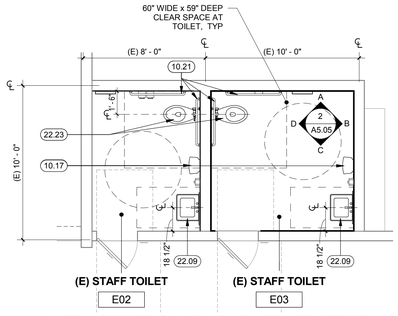
1/4" = 1'-0"





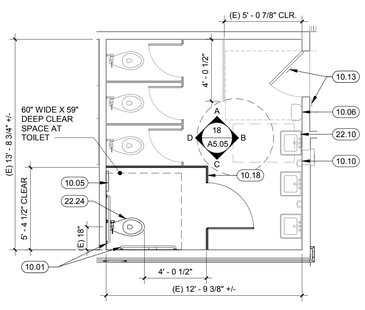
23 BLDG E - (E) STAFF RR - DEMO

1/4" = 1'-0"



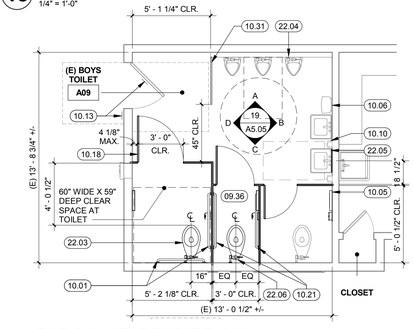
18 BLDG A - (E) GIRLS' RR A15 - DEMO

1/4" = 1'-0"



13 BLDG A - (E) BOYS' RR A09 - DEMO

1/4" = 1'-0"



24 ENLARGED PLAN - BLDG E - STAFF RR

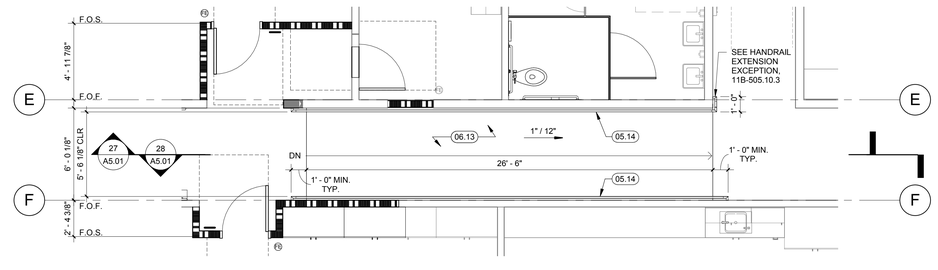
1/4" = 1'-0"

19 BLDG A - (E) GIRLS' RR A15

1/4" = 1'-0"

14 BLDG A - (E) BOYS' RR A09

1/4" = 1'-0"



20 ENLARGED PLAN - BUILDING A RAMP

1/4" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N..
2. REFER TO CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND COORDINATION.
3. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS.
4. PATCH AND REPAIR WALLS & FLOORS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
5. GROUT FILL ALL HOLES IN WALL AND TILE WHERE DISPENSERS OR PARTITIONS REMOVED OR RELOCATED.
6. PROTECT ALL (E) FINISHES TO REMAIN DURING CONSTRUCTION.
7. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK.
8. DIMENSIONS:
   A. ALL EXISTING WALLS WITH EXISTING FINISHES TO REMAIN ARE DIMENSIONED TO FACE OF FINISH.
   B. ALL NEW DIMENSIONS SHALL BE TO FACE OF STUD UNLESS OTHERWISE NOTED.
   C. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
9. PROVIDE SOLID BACKING AS REQUIRED IN STUD WALLS FOR ALL WALL MOUNTED ACCESSORIES, FIXTURES AND EQUIPMENT. SEE A9.02.
10. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL WORK AND COORDINATION.
11. REFER TO INTERIOR ELEVATIONS AND A9.01 FOR TOILET ACCESSORIES.
12. SEE PLUMBING DRAWINGS FOR PLUMBING FIXTURE MOUNTING REQUIREMENTS; SEE ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS.
13. SEE A2.41, & A2.42 FOR FINISH SCHEDULE AND PLANS.
14. SEE A2.25 FOR DOOR & SIGNAGE SCHEDULE.
15. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING, STORAGE, AND RELOCATING ALL FURNITURE, INCLUDING SHELVING.
16. SEE ELEVATIONS SHEETS A2.31, A3.01, A3.02, A3.03 & A3.04 FOR NEW WINDOW / NEW GLAZING INFORMATION.
17. SEE SITE PLAN SHEETS A1.02 TO A1.06 FOR SITE RELATED WORK.

KEYNOTES

DEMO ← REMODEL ←

DEMOLITION

D2.01 REMOVE (E) TANK TOILET, S.P.D.
D2.05 REMOVE (E) EPOXY FLOOR COATING AND INTEGRAL COVE BASE. PATCH CONC SLAB TO RECEIVE NEW FINISH.
D2.09 PROTECT AND STORE WHEN REMOVING (E) FLOOR MOUNTED TOILETS FOR REINSTALLATION, SPD
D2.10 PROTECT AND STORE WHEN REMOVING (E) TOILET SEAT COVER DISPENSER FOR REINSTALLATION, TYP.
D2.11 PROTECT AND STORE WHEN REMOVING (E) TOILET PAPER DISPENSER FOR REINSTALLATION, TYP.
D2.12 REMOVE (E) PRIVACY PARTITION.
D2.13 REMOVE (E) TOILET PARTITIONS AT ACCESSIBLE STALL. PROTECT (E) ADJACENT STALLS TO REMAIN DURING CONSTRUCTION.
D2.14 REMOVE (E) CERAMIC TILE WAINSCOT.
D2.27 REMOVE (E) LAVATORY.
D2.34 REMOVE (E) TOILET PARTITION, TYP.
D2.35 REMOVE (E) RESTROOM ACCESSORIES.
D2.37 PROTECT AND STORE WHEN REMOVING (E) GRAB BARS FOR REINSTALLATION.
D2.47 REMOVE (E) FLOOR MOUNTED TOILET. SPD

REMODEL

02.26 (E) STEEL COLUMN TO REMAIN, PROTECT.
05.14 CLEAR ANODIZED ALUMINUM HANDRAILS (2) LEVELS, BOTH SIDES, SEE DETAILS 15 & 20 /A9.02.
06.10 CASEWORK FILLER
06.13 3/4" PLYWOOD SHEATHING O/ 2X8 FRAMING @ 1:12 SLOPE MAX. SEE FINISH PLANS. SEE STRUCTURAL DRAWINGS.
09.36 PATCH (E) CERAMIC FLOOR TILE TO MATCH WHERE (E) TOILETS ARE REMOVED.
10.01 REINSTALL (E) GRAB BARS. SEE 12/A9.01 FOR MOUNTING HEIGHTS. SEE ALSO DTL 17/A9.01.
10.05 REINSTALL (E) TOILET SEAT COVER DISPENSER, TYP. SEE 12/A9.01 FOR MOUNTING HEIGHT.
10.06 (E) ACCESSIBLE PAPER TOWEL DISPENSER TO REMAIN. OPERABLE PART OF UNIT BELOW 40" A.F.F.
10.10 (E) ACCESSIBLE SOAP DISPENSER TO REMAIN, TYP. OF (2). OPERABLE PART OF UNIT BELOW 40" A.F.F..
10.11 RESTROOM SIGNAGE PER DETAILS 6, 11 & 12 / A9.04.
10.13 (E) ACCESSIBLE RESTROOM SIGNAGE
10.17 (N) ACCESSIBLE PAPER TOWEL DISPENSER. SEE 12/A9.01 FOR MOUNTING HEIGHT.
10.18 (N) SOLID PHENOLIC TOILET PARTITION, TYP. SEE DETAILS 23, 24 & 25/A9.01.
10.21 (N) GRAB BARS, 18 GAUGE. SEE A9.01 FOR MOUNTING DETAILS. SEE ALSO DTL 17/A9.01.
10.28 (E) RESTROOM SIGNAGE PER DSA APP. #01-117433.
10.31 (N) SOLID PHENOLIC PRIVACY PARTITION. SEE DETAILS 23 & 25/A9.01.
22.03 REINSTALL (E) ACCESSIBLE TOILET. TOP OF SEAT @ 16" A.F.F. SPD
22.04 (E) ACCESSIBLE URINAL TO REMAIN, TYP. OF (3), LIP HEIGHT @ 15" A.F.F.
22.05 (E) ACCESSIBLE LAVATORY TO REMAIN, RIM @ 31" A.F.F. W/ KNEE CLEARANCE GREATER THAN 24", PROVIDE INSULATION TO DRAINAGE LINE.
22.06 REINSTALL (E) TOILET. TOP OF SEAT @ 16" A.F.F. SPD
22.07 (E) TOILET TO REMAIN.
22.08 (N) ACCESSIBLE SINK, TYP. SEE A9.01 & 24/A9.02 FOR MOUNTING AND CLEARANCE REQUIREMENTS, SPD.
22.09 WALL MOUNTED LAVATORY WITH INSULATED PIPING. SEE A9.01 FOR MOUNTING HEIGHT AND CLEARANCE REQUIREMENTS, S.P.D.
22.10 (E) ACCESSIBLE LAVATORY TO REMAIN, RIM @ 34" A.F.F.
22.20 FLOOR MOUNTED ACCESSIBLE KINDER STUDENT TOILET. SEE A9.01 FOR MOUNTING HEIGHT AND CLEARANCE REQUIREMENTS. S.P.D.
22.23 FLOOR MOUNTED ACCESSIBLE ADULT TOILET. SEE A9.01 FOR MOUNTING AND CLEARANCE REQUIREMENTS, SPD.
22.24 (N) FLOOR MOUNTED ACCESSIBLE ELEMENTARY STUDENT TOILET. SEE A9.01 FOR MOUNTING HEIGHT AND CLEARANCE REQUIREMENTS, SPD.
22.26 FLOOR DRAIN, SPD

LEGEND

- (E) DOOR TO REMAIN
- (N) DOOR & DOOR FRAME
- (N) RATED 1-HOUR WALL
- (N) NON-RATED WALL
- (E) WALL

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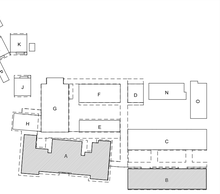
Revisions

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HY Architects Project number: 4539

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35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
ENLARGED FLOOR PLANS

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: OA
Checked By: CD
Issue Date: 03/11/19
Revit Version: 2017

Sheet
A4.01

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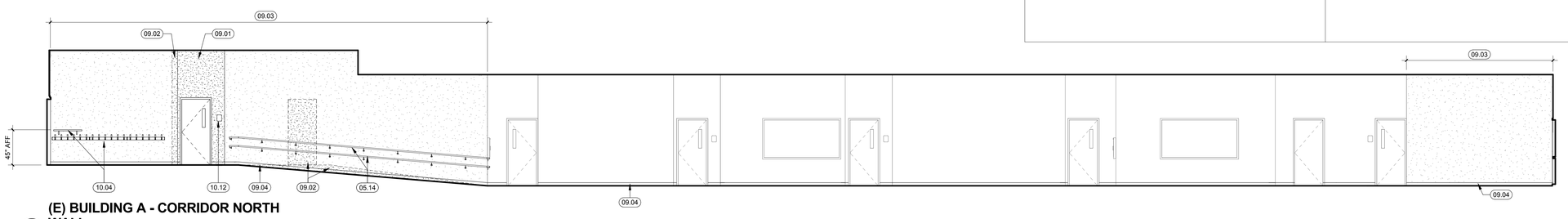
KEYNOTES

REMODEL ←

05.14 CLEAR ANODIZED ALUMINUM HANDRAILS (2) LEVELS, BOTH SIDES, SEE DETAILS 15 & 20 /A9.02.
09.01 (N) GYP. BD. SEE FLOOR PLANS FOR WALL TYPE, PAINT PER SPECIFICATIONS AND INTERIOR FINISH PLANS
09.02 (N) GYP. BD. INFILL/PATCHING. SEE FLOOR PLANS FOR WALL TYPE, PAINT PER SPECIFICATIONS AND INTERIOR FINISH PLANS
09.03 PATCH AND PREPARE (E) GYP. BD. FOR NEW PAINT, PAINT PER SPECIFICATIONS AND INTERIOR FINISH PLANS.
09.04 (N) 4" RUBBER BASE, TYP
10.02 REINSTALL (E) PIN BOARDS.
10.04 REINSTALL (E) COAT RACKS AND SHELVING ABOVE FOR REINSTALLATION.
10.12 (N) SIGNAGE. SEE DOOR & SIGNAGE SCHEDULE A2.25.
10.41 OUTLINE OF (E) PORTABLE SCHOOL TRAFFIC MANAGEMENT SIGNS.

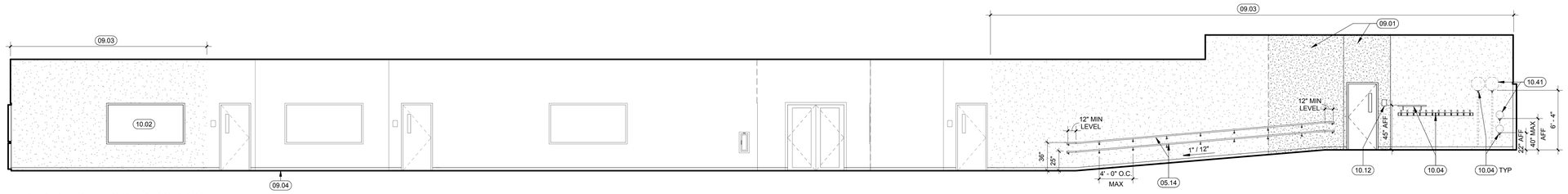
GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N.
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5. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK.
6. DIMENSIONS:
   A. ALL EXISTING WALLS WITH EXISTING FINISHES TO REMAIN ARE DIMENSIONED TO FACE OF FINISH.
   B. ALL NEW DIMENSIONS SHALL BE TO FACE OF STUD UNLESS OTHERWISE NOTED.
   C. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
   D. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND.
7. PROVIDE SOLID BACKING AS REQUIRED IN STUD WALLS FOR ALL WALL MOUNTED ACCESSORIES, FIXTURES AND EQUIPMENT. SEE A9.01 & A9.02.
8. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL WORK AND COORDINATION.
9. REFER TO A9.01 & A9.02 FOR TOILET ACCESSORIES AND ACCESSIBILITY REQUIREMENTS.
10. S.P.D FOR PLUMBING FIXTURE MOUNTING REQUIREMENTS; SEE ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS.
11. PROVIDE STAINLESS STEEL ACCESS PANELS FOR ALL PLUMBING VALVES AND CLEANOUTS. SEAL ALL ACCESS PANEL PERIMETERS TO TILE FINISH.



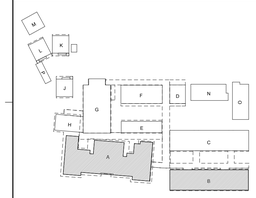
(E) BUILDING A - CORRIDOR NORTH WALL

27 3/16" = 1'-0"



(E) BUILDING A - CORRIDOR SOUTH WALL

28 3/16" = 1'-0"



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LICENSED ARCHITECT MARKUS A. WIENER C-27362 01-31-2021 RENEWAL DATE STATE OF CALIFORNIA

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

INTERIOR ELEVATIONS

Client Project Number: Client Proj. #

Scale: 3/16" = 1'-0"
Drawn By: OA
Checked By:CD
Issue Date: 03/11/19
Revit Version: 2017

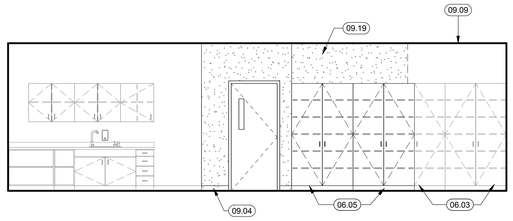
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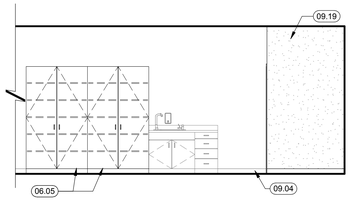
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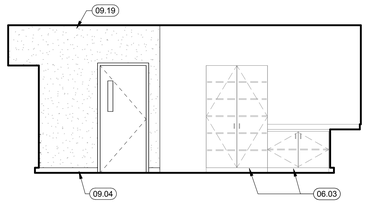


A

11 (E) BUILDING A - CLASSROOM A18
1/4" = 1'-0"



B



C

13 (E) BUILDING A - CLASSROOM A22
1/4" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N..
2. REFER TO MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND COORDINATION.
3. PATCH AND REPAIR WALLS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
4. PROVIDE SOLID BACKING AS REQUIRED IN STUD WALLS FOR ALL WALL MOUNTED ACCESSORIES, FIXTURES AND EQUIPMENT. SEE A9.01 & A9.02.
5. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL WORK AND COORDINATION.
6. S.P.D FOR PLUMBING FIXTURE MOUNTING REQUIREMENTS; SEE ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS.
7. SEE DOOR SCHEDULE FOR DOOR AND SIGNAGE INFORMATION.
8. REFER TO SHEET A9.02 FOR CABINETRY ANCHORAGE.
9. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXURES AND OUTLETS, INCLUDING FA DEVICES.
10. SEE MECHANICAL DRAWINGS FOR REGISTER REQUIREMENTS.
11. ALL EXPOSED GYP. BOARD WALL AND CEILING SURFACES TO BE PAINTED. U.O.N. SEE SPECIFICATION SECTION 09 91 00 PAINTING AND SECTION 09 29 00 FOR LEVEL OF FINISH.

KEYNOTES

REMODEL

06.03 (E) CABINET TO REMAIN AND BE PROTECTED
06.05 REINSTALL (E) 7'-0"± HIGH CASEWORK. PROVIDE BLOCKING AS REQUIRED.
09.04 (N) 4" RUBBER BASE, TYP
09.09 PAINT (E) GYP. BD. PER SPECIFICATIONS AND INTERIOR FINISH PLANS
09.19 GYP. BD. SEE FLOOR PLANS FOR WALL TYPE, PAINT PER SPECIFICATIONS AND INTERIOR FINISH PLANS

LEGEND

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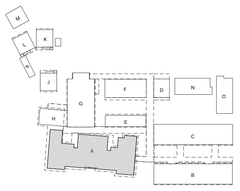
Revisions

No.	Revisions	By	Date	Appr.

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Architect/Engineer Of Record: ____

LICENSED ARCHITECT
ANDREW A. HIBSER
C-27362
01-31-2021
RENEWAL DATE
STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

INTERIOR ELEVATIONS

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: OA
Checked By: CD
Issue Date: 03/11/19
Revit Version: 2017

Sheet
A5.03

3/11/2019 11:17:28 AM C:_Revit Locals\4539_Martin ES_SouthSFUSD_R17_Phase II_oatrin@hy-arch.com.rvt

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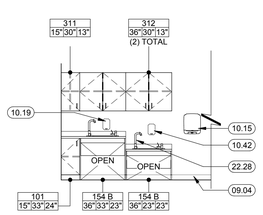
GENERAL NOTES

KEYNOTES

REMODEL

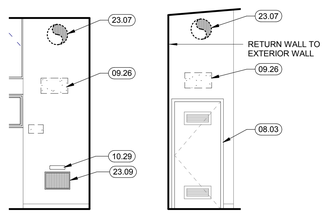
06.01 (N) BASE CASEWORK. SEE 7/A9.02.
06.15 (N) WALL MOUNTED CASEWORK. SEE 6/A9.02.
08.03 (E) DOOR AND FRAME TO REMAIN, PROTECT DURING CONSTRUCTION.
09.04 (N) 4" RUBBER BASE, TYP
09.08 (N) 4" RUBBER BASE TO MATCH (E) ADJACENT, V.I.F.
09.21 PATCH AND PAINT WALL TO MATCH (E) WALLS AROUIND (N) CASEWORK TO MATCH (E) ADJACENT AS REQUIRED.
09.26 REMOVE (E) VENTS . FILL, PATCH AND PAINT WALL TO MATCH (E) SEE STRUCTURAL DRAWINGS.
09.30 GYP. BD. SOFFIT. PAINT PER SPECIFICATIONS AND INTERIOR FINISH PLANS
10.15 REINSTALL (E) PAPER TOWEL DISPENSER, OPERABLE PART OF UNIT BELOW 40" A.F.F.
10.17 (N) ACCESSIBLE PAPER TOWEL DISPENSER. SEE 12/A9.01 FOR MOUNTING HEIGHT.
10.19 REINSTALL (E) SOAP DISPENSER, OPERABLE PART OF UNIT BELOW 40" A.F.F.
10.29 (N) DO NOT BLOCK SIGN, SEE 10/A9.04
10.42 (N) AUTOMATIC SOAP DISPENSER.SEE 12/A9.01 FOR MOUNTING HEIGHT.
12.04 FULLY FORMED, NO EDGE DRIP, PLASTIC LAMINATE ROLLED COUNTER TOPS W/ BACK SPLASH OVER MARINE GRADE PLYWOOD.
22.08 (N) ACCESSIBLE SINK, TYP. SEE A9.01 & 24/A9.02 FOR MOUNTING AND CLEARANCE REQUIREMENTS, SPD.
22.28 (N) TOUCHLESS FAUCET @ STUDENT SINK ONLY, SEE PLUMBING SPECIFICATIONS.
23.07 MECHANICAL DUCT, S.M.D.
23.09 REMOVE AND REPLACE (E) INTAKE LOUVER. SEE MECHANICAL DRAWINGS.

LEGEND



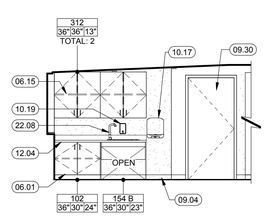
30 (E) BLDG D - SINK CASEWORK ELEVATION

1/4" = 1'-0"



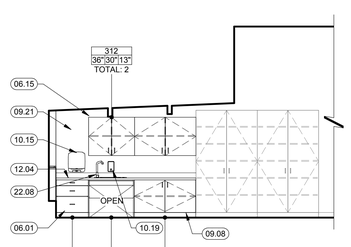
25 TYP. (E) MECHANICAL CLOSET

1/4" = 1'-0"



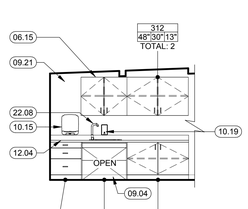
20 (E) BLDG B - TYP SINK AND CASEWORK ELEVATION

1/4" = 1'-0"



15 (E) BLDG C - TYP SINK AND CASEEWORK ELEVATION

1/4" = 1'-0"



10 (E) BLDG F - TYP SINK CASEWORK ELEVATION

1/4" = 1'-0"

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HY Architects Project number: 4539

Facility
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35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
INTERIOR ELEVATIONS

Client Project Number: Client Proj. #

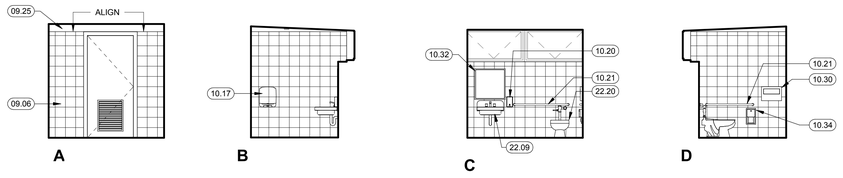
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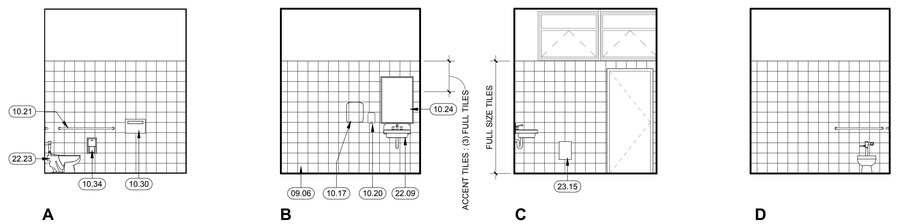
GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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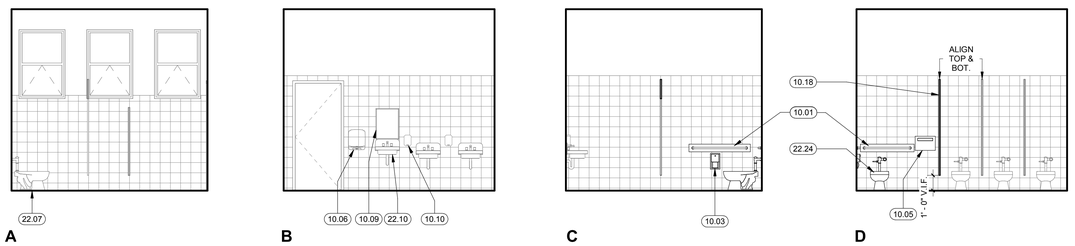
11 (E) BLDG B - (N) KINDER STUDENT TOILET 1 B06 (TOILET 2 B07, SIM)

1/4" = 1'-0"



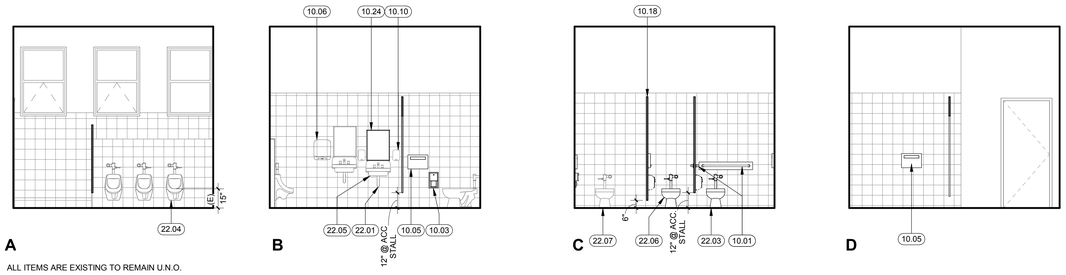
2 BLDG E STAFF TOILET E03 (TOILET E02, SIM, OH)

1/4" = 1'-0"



18 (E) BUILDING A - GIRLS' TOILET A15

1/4" = 1'-0"



ALL ITEMS ARE EXISTING TO REMAIN U.N.O.

19 (E) BUILDING A - BOYS' TOILET A09

1/4" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N..
2. REFER TO MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND COORDINATION.
3. PATCH AND REPAIR WALLS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
4. PROVIDE SOLID BACKING AS REQUIRED IN STUD WALLS FOR ALL WALL MOUNTED ACCESSORIES, FIXTURES AND EQUIPMENT. SEE A9.01 & A9.02.
5. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL WORK AND COORDINATION.
6. S.P.D FOR PLUMBING FIXTURE MOUNTING REQUIREMENTS; SEE ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS.
7. SEE DOOR SCHEDULE FOR DOOR AND SIGNAGE INFORMATION.
8. REFER TO SHEET A9.02 FOR CABINETRY ANCHORAGE.
9. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXURES AND OUTLETS, INCLUDING FA DEVICES.
10. SEE MECHANICAL DRAWINGS FOR REGISTER REQUIREMENTS.
11. ALL EXPOSED GYP. BOARD WALL AND CEILING SURFACES TO BE PAINTED, U.O.N. SEE SPECIFICATION SECTION 09 91 00 PAINTING AND SECTION 09 29 00 FOR LEVEL OF FINISH.

KEYNOTES

REMODEL

09.06 (N) CERAMIC TILE WAINSCOT. SEE DETAIL 15/A9.01
09.25 CEMENT BOARD, PAINT PER SPECIFICATIONS.
10.01 REINSTALL (E) GRAB BARS. SEE 12/A9.01 FOR MOUNTING HEIGHTS. SEE ALSO DTL 17/A9.01.
10.03 REINSTALL (E) TOILET PAPER DISPENSER, TYP OF (3). SEE 9/A9.01 & 12/A9.01 FOR MOUNTING LOCATION.
10.05 REINSTALL (E) TOILET SEAT COVER DISPENSER, TYP. SEE 12/A9.01 FOR MOUNTING HEIGHT.
10.06 (E) ACCESSIBLE PAPER TOWEL DISPENSER TO REMAIN. OPERABLE PART OF UNIT BELOW 40" A.F.F.
10.09 (E) MIRROR TO REMAIN. BOTTOM OF REFLECTIVE AT 40" A.F.F.
10.10 (E) ACCESSIBLE SOAP DISPENSER TO REMAIN, TYP. OF (2). OPERABLE PART OF UNIT BELOW 40" A.F.F..
10.17 (N) ACCESSIBLE PAPER TOWEL DISPENSER. SEE 12/A9.01 FOR MOUNTING HEIGHT.
10.18 (N) SOLID PHENOLIC TOILET PARTITION, TYP. SEE DETAILS 23, 24 & 25/A9.01.
10.20 (N) SOAP DISPENSER.SEE 12/A9.01 FOR MOUNTING HEIGHT.
10.21 (N) GRAB BARS, 18 GAUGE. SEE A9.01 FOR MOUNTING DETAILS. SEE ALSO DTL 17/A9.01.
10.24 24 X 36" MIRROR. SEE 12/A9.01 FOR MOUNTING HEIGHT.
10.30 TOILET SEAT COVER DISPENSER. SEE 12/A9.01 FOR MOUNTING HEIGHT.
10.32 24" X 24" MIRROR. SEE 12/A9.01 FOR MOUNTING HEIGHT.
10.34 RECESSED TOILET PAPER DISPENSER, SEE A9.01 FOR MOUNTING DETAILS.
22.01 PROVIDE INSULATION FOR EXPOSED DRAIN & H.W. PIPING UNDER SINK, TYP.
22.03 REINSTALL (E) ACCESSIBLE TOILET. TOP OF SEAT @ 16" A.F.F. SPD
22.04 (E) ACCESSIBLE URINAL TO REMAIN, TYP. OF (3), LIP HEIGHT @ 15" A.F.F.
22.05 (E) ACCESSIBLE LAVATORY TO REMAIN, RIM @ 31" A.F.F. W/ KNEE CLEARANCE GREATER THAN 24". PROVIDE INSULATION TO DRAINAGE LINE.
22.06 REINSTALL (E) TOILET. TOP OF SEAT @ 16" A.F.F. SPD
22.07 (E) TOILET TO REMAIN.
22.09 WALL MOUNTED LAVATORY WITH INSULATED PIPING. SEE A9.01 FOR MOUNTING HEIGHT AND CLEARANCE REQUIREMENTS, S.P.D.
22.10 (E) ACCESSIBLE LAVATORY TO REMAIN, RIM @ 34" A.F.F.
22.20 FLOOR MOUNTED ACCESSIBLE KINDER STUDENT TOILET. SEE A9.01 FOR MOUNTING HEIGHT AND CLEARANCE REQUIREMENTS, S.P.D.
22.23 FLOOR MOUNTED ACCESSIBLE ADULT TOILET. SEE A9.01 FOR MOUNTING AND CLEARANCE REQUIREMENTS, SPD.
22.24 (N) FLOOR MOUNTED ACCESSIBLE ELEMENTARY STUDENT TOILET. SEE A9.01 FOR MOUNTING HEIGHT AND CLEARANCE REQUIREMENTS, SPD.
23.15 (N) SEMI-RECESSED WALL UNIT HEATER W/ 4" MAX PROTRUSION, S.E.D.

LEGEND

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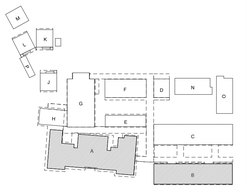
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HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

INTERIOR RESTROOM ELEVATIONS

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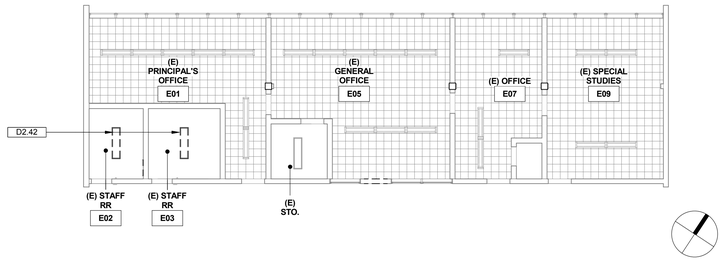
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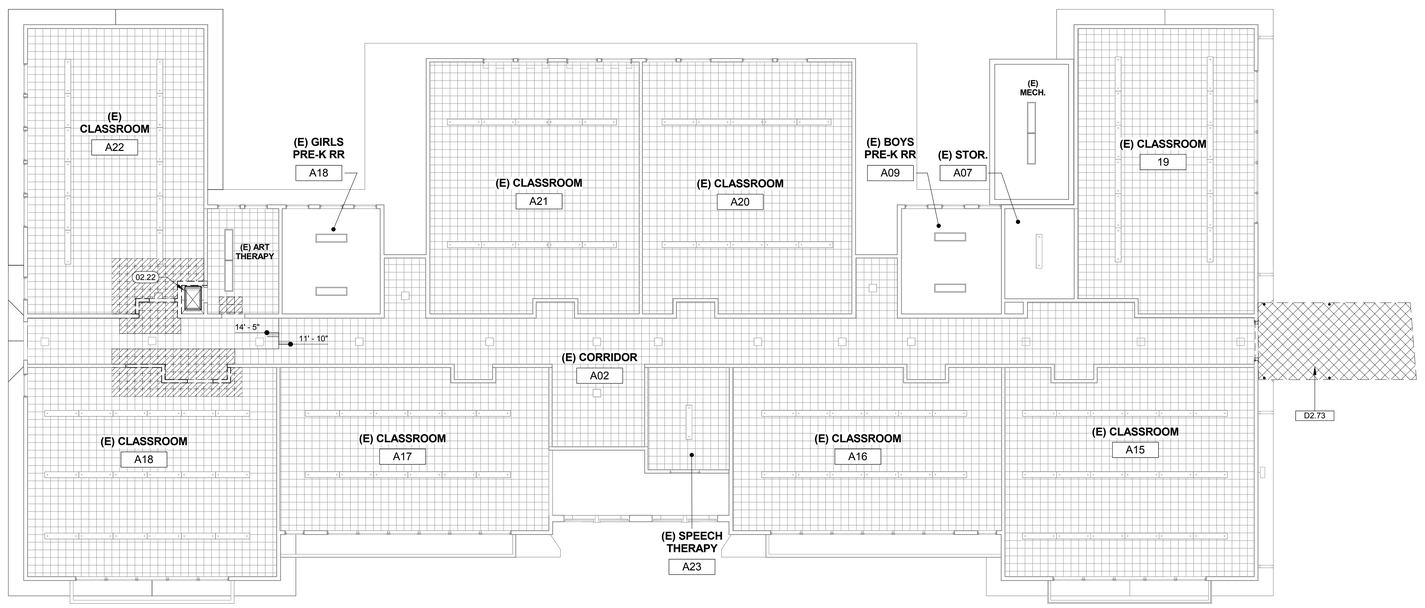
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0 5' 25' 1/8" = 1'-0"
0 1' 12' 1/4" = 1'-0"
0 1' 6' 1/2" = 1'-0"
0 4' 3/4" = 1'-0"
0 1' 3' 1" = 1'-0"
0 2' 1 1/2" = 1'-0"
0 1' 3" = 1'-0"

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17 REFLECTED CEILING DEMO PLAN - BUILDING E

1/8" = 1'-0"



30 REFLECTED CEILING DEMO PLAN - BUILDING A

1/8" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N..
2. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND COORDINATION.
3. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS.
4. PATCH AND REPAIR CEILINGS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
5. PROTECT ALL (E) FINISHES TO REMAIN DURING CONSTRUCTION.
6. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK.
7. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
8. REFER TO DEMO FLOOR PLANS FOR ADDITIONAL WORK AND COORDINATION.
9. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING, STORAGE, AND RELOCATING ALL FURNITURE, INCLUDING SHELVING.

DEMO KEYNOTES

DEMO

D2.42 REMOVE (E) LIGHT FIXTURE, S.E.D.
D2.73 PROTECT REMAINING STRUCTURE WHEN REMOVING PORTION OF (E) COVERED WALK. S.S.D.

EXISTING KEYNOTES

#####

02.22 (E) SKYLIGHT SHAFT TO REMAIN

LEGEND

- (E) 12" x 12" ACOUSTIC GLUE ON TILE OVER 1x FURRING STRIPS
- REMOVE (E) 12" x 12" ACOUSTIC GLUE ON TILES, PROTECT (E) 1x FURRING STRIPS TO REMAIN
- DEMO (E) LIGHT FIXTURE
- DEMO WALL

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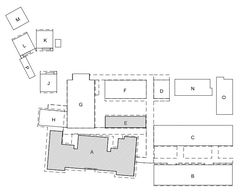
Revisions

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LICENSED ARCHITECT — MATTHEW A. YAMAUCHI — C-27362 — 01-31-2021 RENEWAL DATE — STATE OF CALIFORNIA

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HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

REFLECTED CEILING DEMO PLANS - BUILDINGS A & E

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: OA
Checked By: CD
Issue Date: 03/11/19
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Sheet **A6.01**

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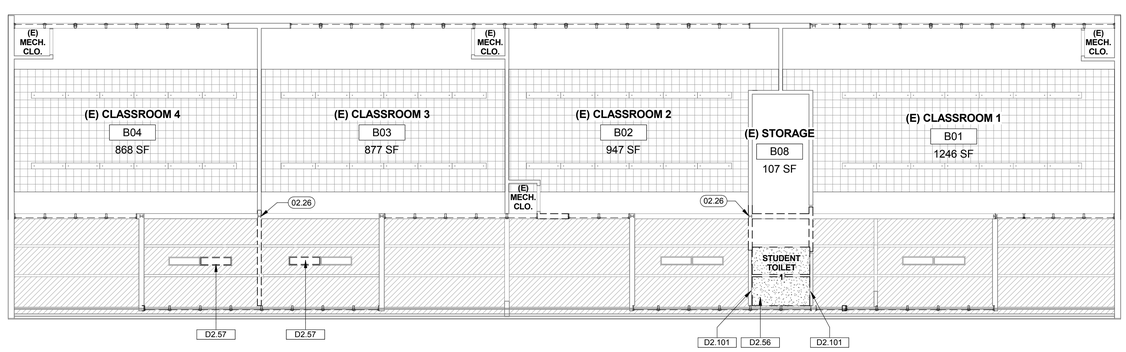
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4. PATCH AND REPAIR CEILINGS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
5. PROTECT ALL (E) FINISHES TO REMAIN DURING CONSTRUCTION.
6. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK.
7. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
8. REFER TO DEMO FLOOR PLANS FOR ADDITIONAL WORK AND COORDINATION.
9. GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING, STORAGE, AND RELOCATING ALL FURNITURE, INCLUDING SHELVING.

KEYNOTES DEMO

D2.56 REMOVE (E) GYP BD. CEILING AND ASSOCIATED FURRING STRIPS. PROTECT (E) WOOD JOISTS TO REMAIN.
D2.57 REMOVE (E) LIGHT FIXTURE, TYP., SEE ELECTRICAL DRAWINGS
D2.101 REMOVE (E) WALL MOUNTED LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS



1 REFLECTED CEILING DEMO PLAN - BUILDING B

1/8" = 1'-0"

LEGEND

- (E) GLUE ON TILE TO REMAIN
- (E) T&G DIAGONAL SHEATHING
- DEMO (E) CEMENT PLASTER ASSEMBLY
- 1'-0" x 4'-0" SURFACE MOUNTED LED LIGHT FIXTURE, S.E.D.
- DEMO WALL

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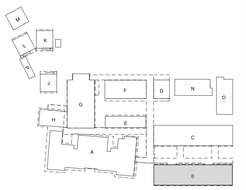
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REFLECTED CEILING DEMO PLAN - BUILDING B

Client Project Number: Client Proj. #

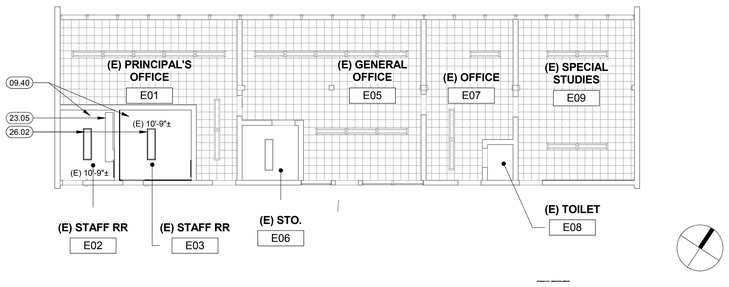
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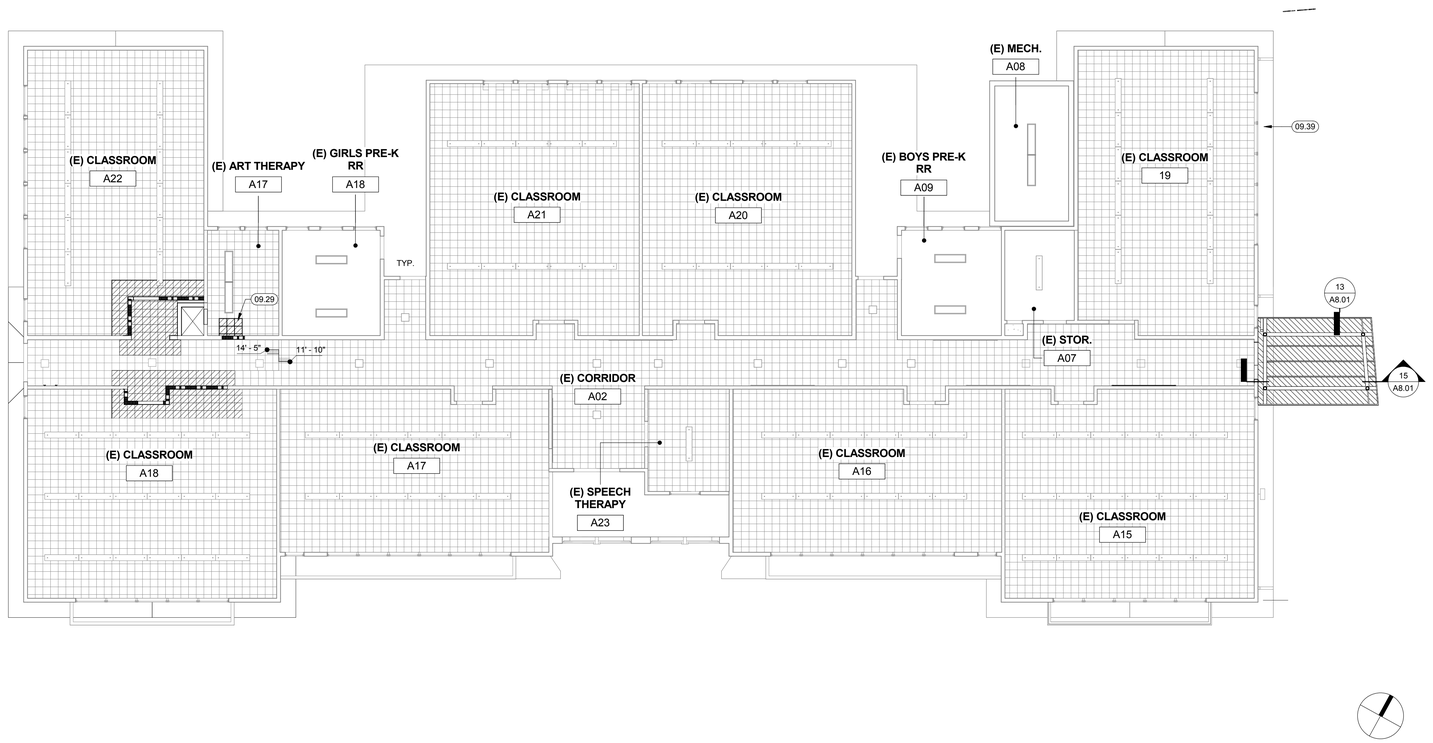
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17 REFLECTED CEILING PLAN - BLDG E

1/8" = 1'-0"



30 REFLECTED CEILING PLAN - BLDG A

1/8" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N.
2. REFER TO CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND COORDINATION.
3. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS.
4. PATCH AND REPAIR WALLS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
5. PROTECT ALL (E) FINISHES TO REMAIN DURING CONSTRUCTION.
6. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK.
7. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
8. PROVIDE SOLID BACKING AS REQUIRED IN STUD WALLS FOR ALL WALL MOUNTED ACCESSORIES, FIXTURES AND EQUIPMENT. SEE A9.02.
9. REFER TO INTERIOR ELEVATIONS AND A9.01 FOR TOILET ACCESSORIES.
10. SEE A2.41, & A2.42 FOR FINISH SCHEDULE AND PLANS.
11. SEE SHEETS A3.01 - A3.05 FOR DEMO AND NEW WINDOW INFORMATION.

CEILINGS ARE 11'-10 ± A.F.F. U.O.N.

KEYNOTES

REMODEL

09.29 (N) CEILING TILE AS NEEDED
09.39 PATCH AND PREPARE (E) SOFFIT FOR NEW PAINT, TYP. SEE EXT PAINT NOTES.
09.40 PAINT (E) PLASTER OR GYP BD CEILING PER SPECIFICATIONS AND INTERIOR FINISH PLANS.
23.05 (N) EXHAUST FAN, SEE DETAIL 2/A8.01, SEE PLUMBING DRAWINGS, SEE MECHANICAL DRAWINGS.
26.02 (N) SURFACE MOUNTED LIGHT FIXTURE, TYP. S.E.D.

LEGEND

(E) GLUE ON TILE OVER 1x FURRING STRIPS

(N) GLUE ON TILE TO MATCH EXISTING O/ (E) 1x FURRING STRIPS

9' - 0" CEILING HEIGHT

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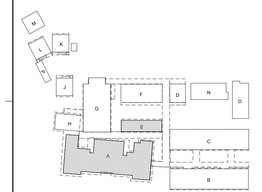
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LICENSED ARCHITECT — MATTHEW A. HIBSER — C-27362 — 01-31-2021 RENEWAL DATE — STATE OF CALIFORNIA

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HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

REFLECTED CEILING PLANS - BUILDINGS A & E

Client Project Number: Client Proj. #

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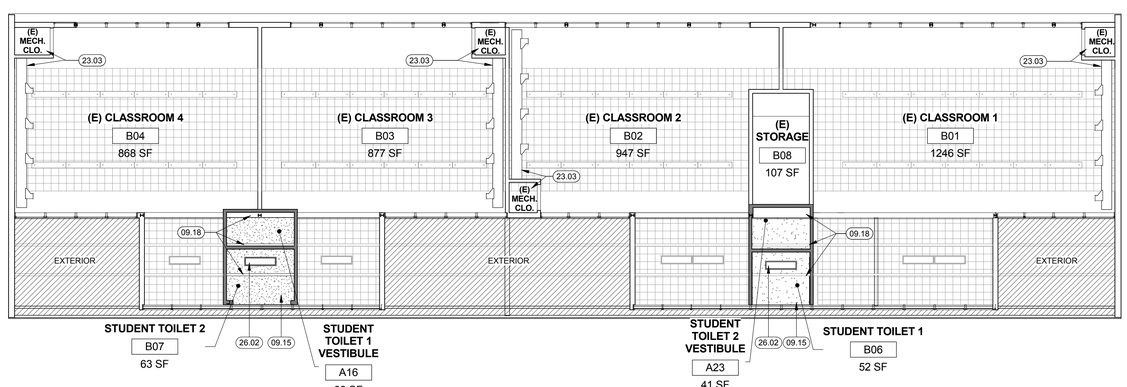
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9. REFER TO INTERIOR ELEVATIONS AND A9.01 FOR TOILET ACCESSORIES.
10. SEE A2.41, & A2.42 FOR FINISH SCHEDULE AND PLANS.
11. SEE SHEETS A3.01 - A3.05 FOR DEMO AND NEW WINDOW INFORMATION.
12. PATCHING OF (E) CEILING WHERE MECHANICAL DUCTS ARE SUSPENDED FROM STRUCTURE ABOVE

KEYNOTES

REMODEL ←

09.15 (N) GYP. BD. CEILING O/ 2X FURRING TO CONCEAL ALL WIRING, CONDUITS AND JUNCTION BOXES, PAINT.
09.18 PAINT (E) WOOD BEAMS TO REMAIN.
23.03 (N) GAS FURNACE AND DUCTWORK, S.M.D., S.P.D.
26.02 (N) SURFACE MOUNTED LIGHT FIXTURE, TYP. S.E.D.



1 **REFLECTED CEILING PLAN - BUILDING B**
1/8" = 1'-0"

LEGEND

- (E) GLUE ON TILE OVER PLASTER CELING OVER 1x FURRING STRIPS
- (E) T&G DIAGONAL SHEATHING
- (N) GYPSUM BOARD O/ 2X FURRING TO CONCEAL ALL WIRING, CONDUITS AND JUNCTION BOXES. PAINT. SEE DETAIL 16/A9.11
- 1'-0" x 4'-0" SURFACE MOUNTED LED LIGHT FIXTURE, S.E.D.
- (N) NON-RATED WALL

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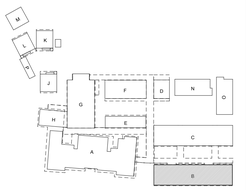
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Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
REFLECTED CEILING PLAN - BUILDING B

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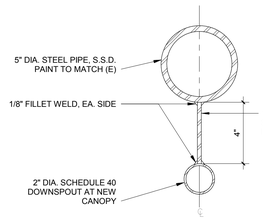
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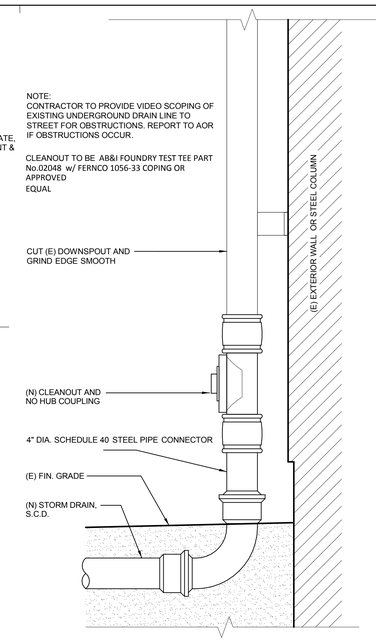
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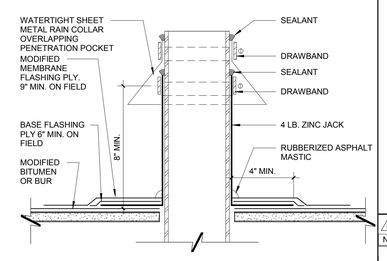
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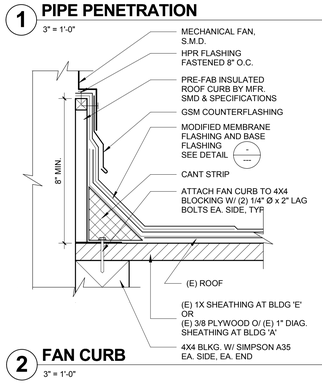
11 DOWNSPOUT ATTACHMENT
3" = 1'-0"



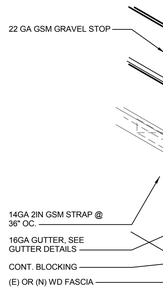
7 DOWNSPOUT TO NEW STORM DRAIN
1 1/2" = 1'-0"



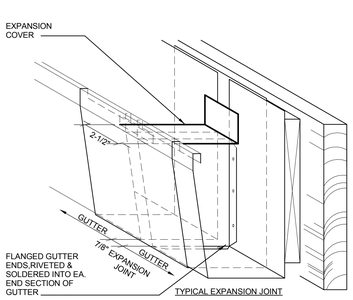
1 PIPE PENETRATION
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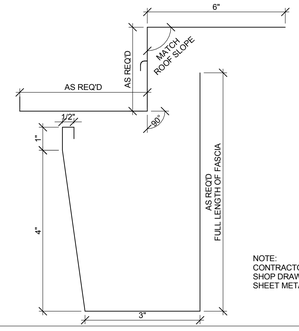
2 FAN CURB
3" = 1'-0"



TYPICAL GUTTER ASSEMBLY

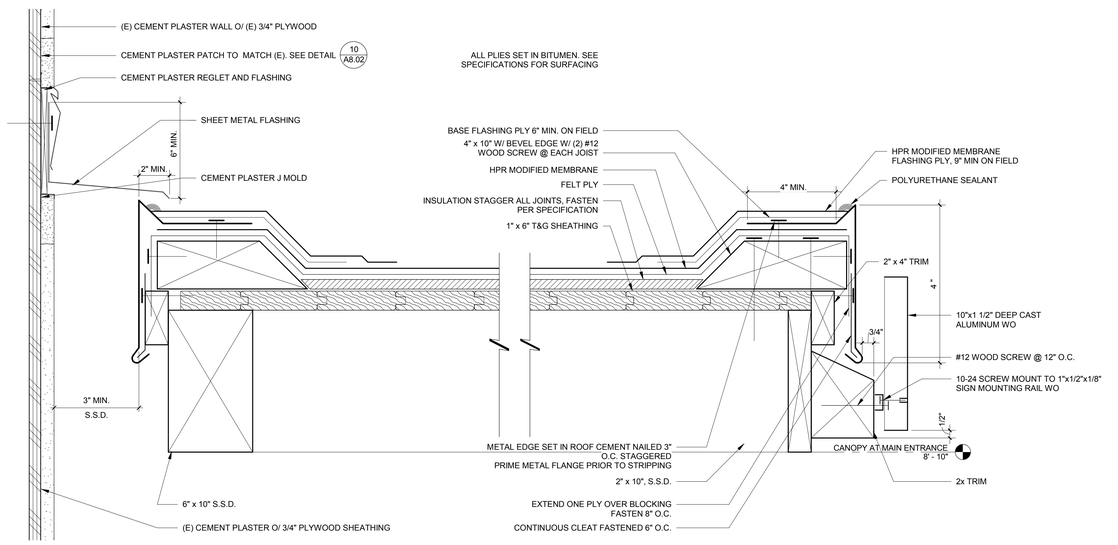


TYPICAL EXPANSION JOINT



NOTE:
CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL SHEET METAL FLASHINGS

13 TYPICAL GUTTER DETAIL
N.T.S.



15 SECTION THROUGH CANOPY AND BLDG A
3" = 1'-0"

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Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

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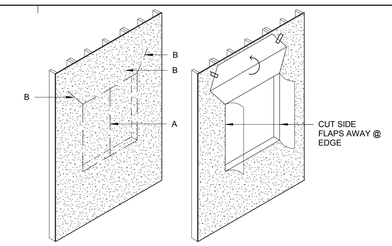
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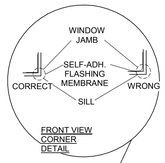
STEP 1

A. MAKE AN "I-CUT" IN THE WEATHER RESISTIVE BARRIER (A MODIFIED I-CUT IS ALSO ACCEPTABLE). FOR AN "I-CUT" BEGIN WITH A HORIZONTAL CUT ACROSS THE BOTTOM AND THE TOP OF THE WINDOW FRAME. FROM THE CENTER CUT STRAIGHT DOWN TO THE SILL.

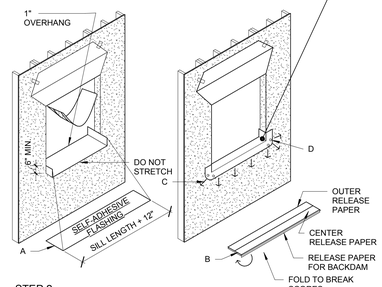
B. CUT TWO 45-DEGREE SLITS A MINIMUM OF 8" FROM THE CORNER OF THE HEADER TO CREATE A FLAP ABOVE THE ROUGH OPENING TO EXPOSE SHEATHING OF FRAMING MEMBERS AND TO ALLOW HEAD FLASHING INSTALLATION (SEE STEP 5). FLIP HEAD FLAP UP AND TEMPORARILY SECURE WITH FLASHING TAPE. SOME WINDOWS AND FLASHING WIDTHS MAY REQUIRE LONGER SLITS.

C. FOLD SIDE FLAPS INTO ROUGH OPENING, CUT EXCESS FLAPS, AND SECURE.

NOTE: SIDE FLAPS SHOULD COVER INTERIOR FACING FRAMING STUD.



FRONT VIEW CORNER DETAIL



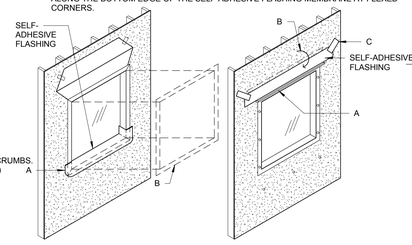
STEP 2

A. CUT SELF-ADHESIVE FLASHING MEMBRANE AT LEAST 12" LONGER THAN WIDTH OF ROUGH OPENING SILL.

B. REMOVE THE CENTER PIECE OF RELEASE PAPER, COVER HORIZONTAL SILL BY OVERHANG INSIDE EDGE OF SILL BY AT LEAST 1-INCH FOR BACKDAM, AND ADHERE INTO ROUGH OPENING ALONG SILL AND UP JAMBS (MIN. 6" ON EACH SIDE).

C. FLEX SELF-ADHESIVE FLASHING MEMBRANE AT BOTTOM CORNERS ONTO FACE OF WALL. PULL & SMOOTH SILL FLASHING DOWN & AWAY FROM OPENING.

D. SECURE EDGES OF SELF-ADHESIVE FLASHING MEMBRANE WITH MECHANICAL FASTERNERS (i.e., SELF-ADHESIVE FLASHING MEMBRANE CAP NAILS, OR SCREWS) ALONG THE BOTTOM EDGE OF THE SELF-ADHESIVE FLASHING MEMBRANE AT FLEXED CORNERS.



STEP 3

A. INSTALL SILL PAN W/ END DAMS AND PREP OPENINGS AS PER THE WINDOW DETAILS - SEE ARCHITECTURAL DETAILS

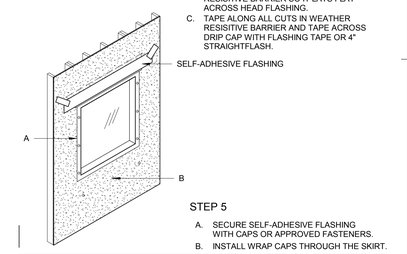
B. INSTALL WINDOW/ LOUVER ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.

STEP 4

A. CUT A PIECE OF METAL OR VINYL DRIP CAP SLIGHTLY LONGER THAN THE WINDOW'S WIDTH AND PLACE A BEAD OF APPROVED SEALANT ON THE REAR SIDE. INSTALL THE DRIP CAP TIGHT AGAINST THE WINDOW HEAD AND COVER THE TOP EDGE WITH TAPE.

B. FLIP DOWN UPPER FLAP OF WEATHER RESISTIVE BARRIER SO IT LAYS FLAT ACROSS HEAD FLASHING.

C. TAPE ALONG ALL CUTS IN WEATHER RESISTIVE BARRIER AND TAPE ACROSS DRIP CAP WITH FLASHING TAPE OR 4" STRAIGHTFLASH.



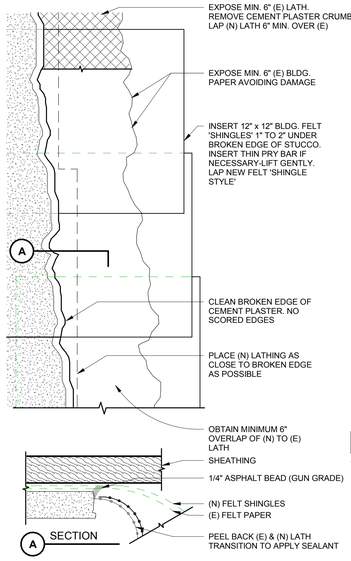
STEP 5

A. SECURE SELF-ADHESIVE FLASHING WITH CAPS OR APPROVED FASTENERS.

B. INSTALL WRAP CAPS THROUGH THE SKIRT.

GENERAL NOTES:

1. WHEN INSTALLED IN CONJUNCTION WITH OTHER BUILDING MATERIALS. FLASHING SYSTEMS PRODUCTS MUST BE PROPERLY SHINGLED WITH THESE MATERIALS, SUCH THAT WATER IS DIVERTED TO THE EXTERIOR OF THE WALL.



10 TYPICAL CEMENT PLASTER PATCH
3" = 1'-0"

5 TYPICAL FLASHING AT OPENINGS
1/4" = 1'-0"

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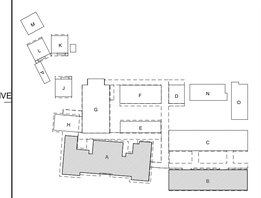
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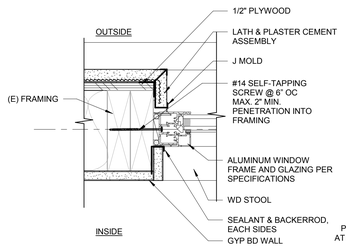
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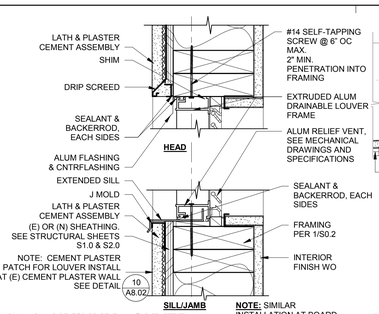
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26 ALUM WINDOW JAMB @ CEMENT PLASTER INFILL

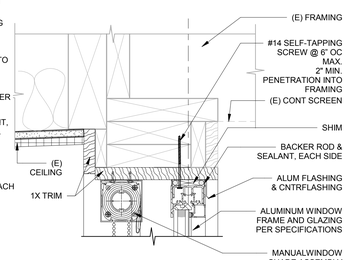
3" = 1'-0"



21 ALUMINUM LOUVER

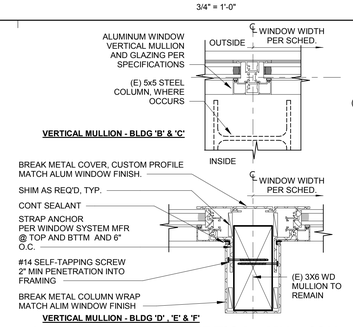
3" = 1'-0"

NOTE: SIMILAR INSTALLATION AT BOARD & BATTEN SIDING



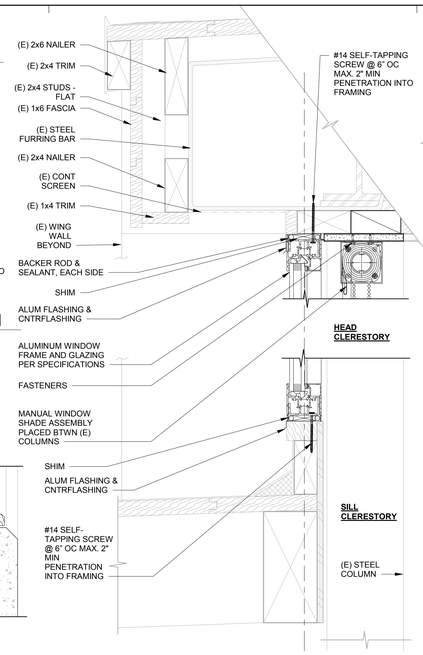
16 ALUM WINDOW HEAD BLDG E

3" = 1'-0"



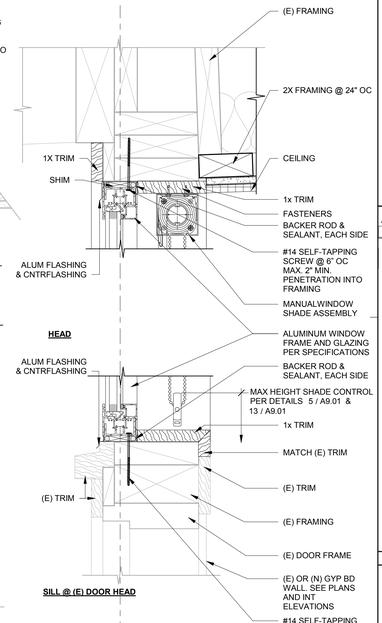
11 ALUM WINDOW VERTICAL MULLION

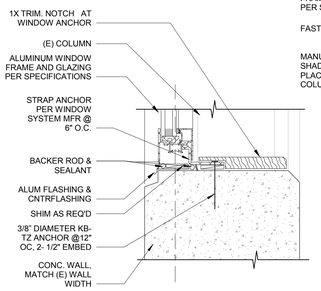
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7 ALUM WINDOW HEAD/SILL

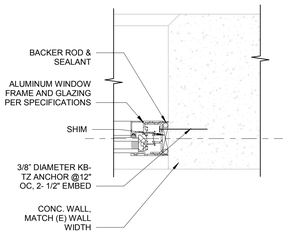
3" = 1'-0"





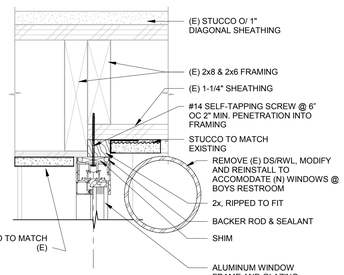
12 WINDOW SILL @ CONCRETE WALL

3" = 1'-0"



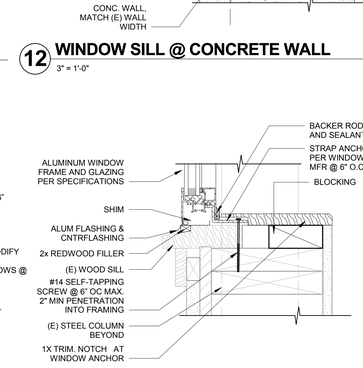
17 WINDOW JAMB @ BLDG C CONCRETE

3" = 1'-0"



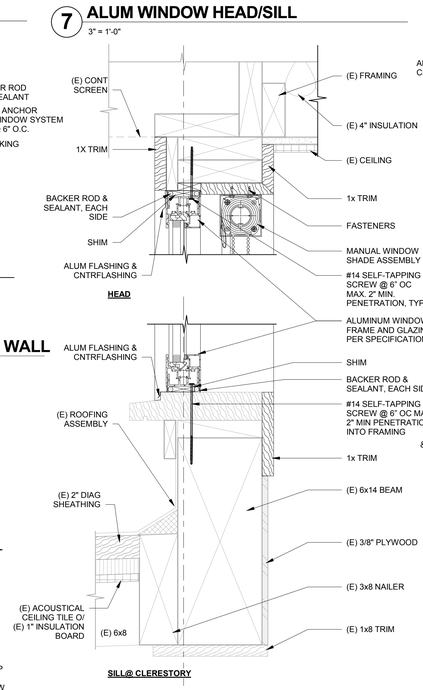
18 ALUM WINDOW JAMB @ WING WALL

3" = 1'-0"



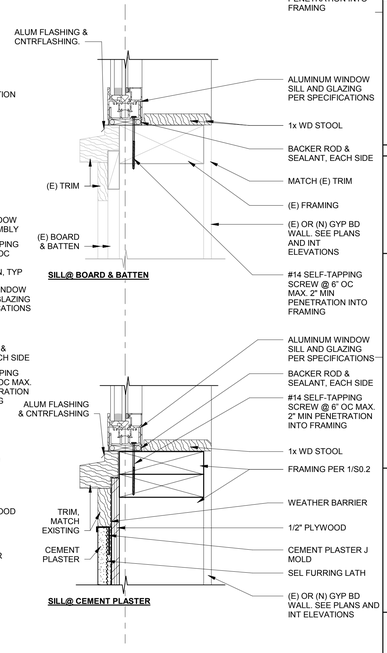
13 WINDOW SILL @ CEMENT PLASTER WALL

3" = 1'-0"



9 ALUM WINDOW HEAD/SILL

3" = 1'-0"

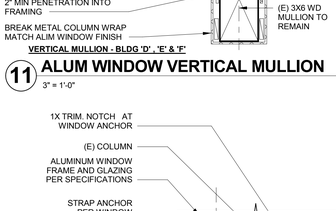


4 ALUM WINDOW HEAD/SILL

3" = 1'-0"

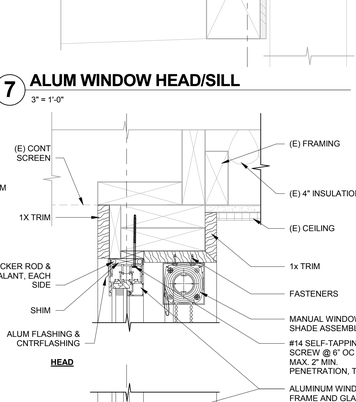
24 WINDOW SILL @ FURRED CONCRETE WALL

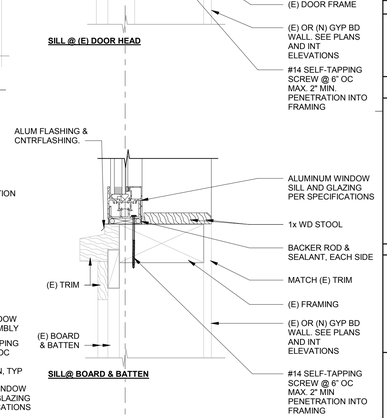
3" = 1'-0"



15 ALUM WINDOW HEAD/SILL

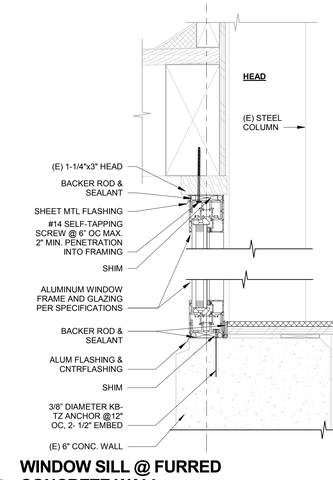
3" = 1'-0"





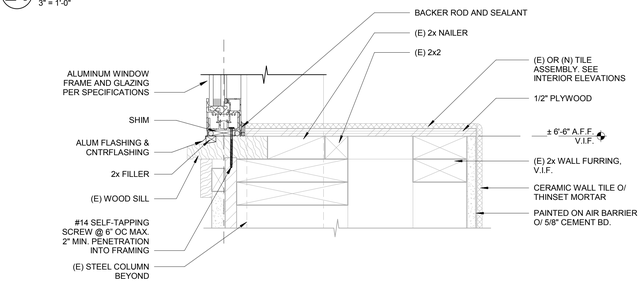
10 ALUM WINDOW JAMB

3" = 1'-0"



24 WINDOW SILL @ FURRED CONCRETE WALL

3" = 1'-0"



25 WINDOW SILL @ FURRED C EMENT PLASTER WALL

3" = 1'-0"

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HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
WINDOW DETAILS AND EXTERIOR ASSEMBLIES

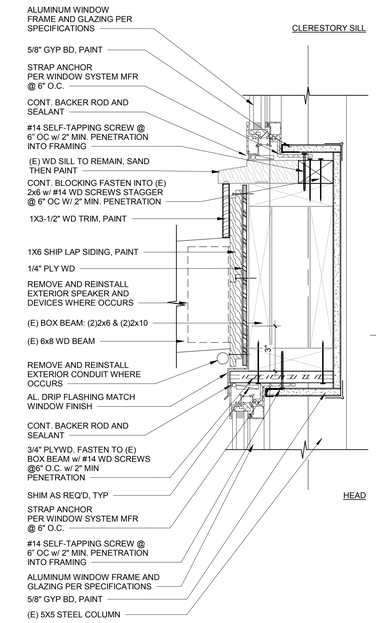
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Scale: 3" = 1'-0"
Drawn By: OA
Checked By:CD
Issue Date: 03/11/19
Revit Version: 2017

Sheet
A8.05

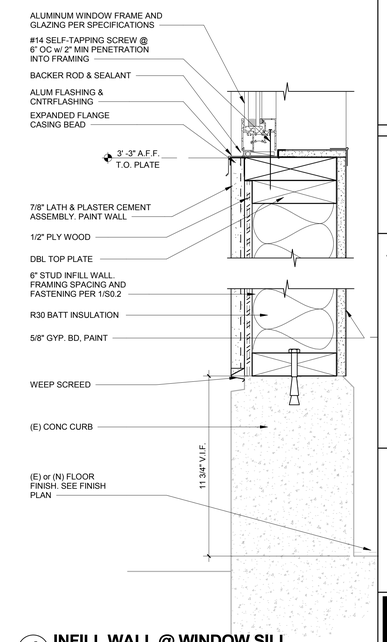
GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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2 WINDOW @ BLDG B NORTH

3" = 1'-0"



4 INFILL WALL @ WINDOW SILL

3" = 1'-0"

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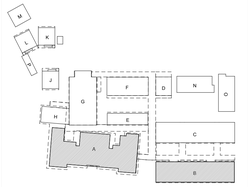
Revisions

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HY Architects Project number: 4539

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35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

WINDOW DETAILS AND EXTERIOR ASSEMBLIES

Client Project Number: Client Proj. #

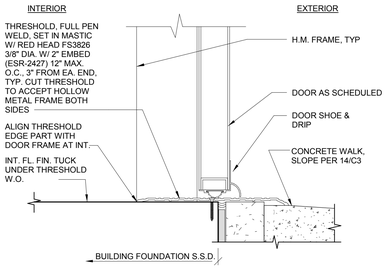
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Checked By:CD
Issue Date: 03/11/19
Revit Version: 2017

Sheet **A8.06**

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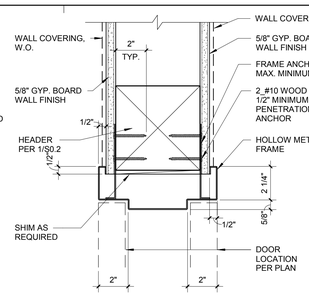
GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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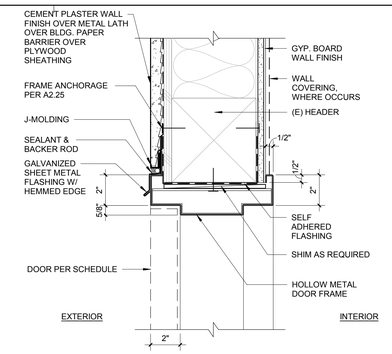
NOTE: REFERENCE 28/A1.04 FOR MORE INFORMATION

11 EXTERIOR DOOR THRESHOLD
3" = 1'-0"

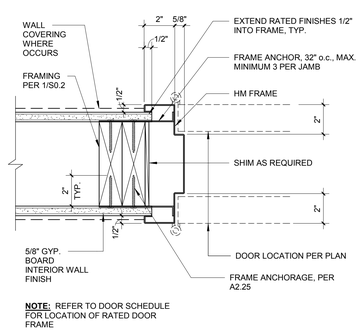


NOTE: REFER TO DOOR SCHEDULE FOR LOCATION OF RATED DOOR FRAME

6 INTERIOR DOOR HEAD, TYPICAL
3" = 1'-0"

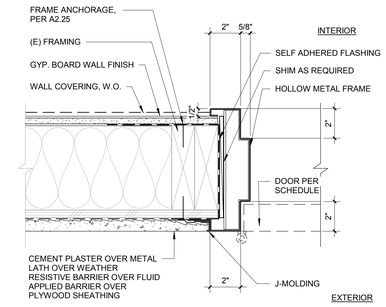


1 EXTERIOR DOOR HEAD, TYPICAL
3" = 1'-0"

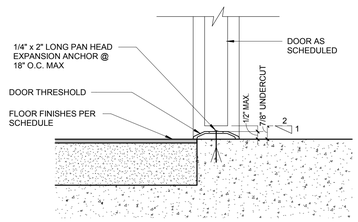


NOTE: REFER TO DOOR SCHEDULE FOR LOCATION OF RATED DOOR FRAME

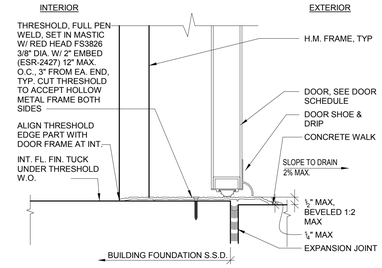
7 INTERIOR DOOR JAMB, TYPICAL
3" = 1'-0"



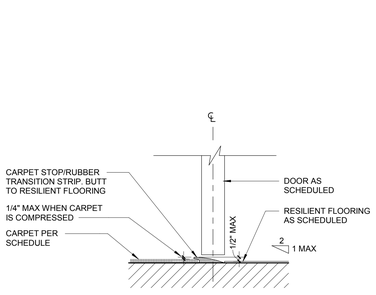
2 EXTERIOR DOOR JAMB, TYPICAL
3" = 1'-0"



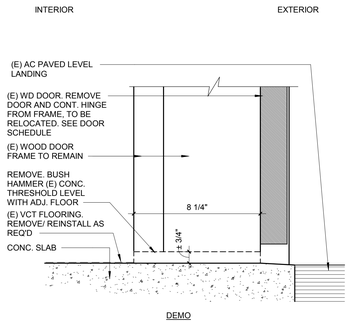
8 INTERIOR THRESHOLD
3" = 1'-0"



3 EXTERIOR DOOR THRESHOLD
3" = 1'-0"



14 INTERIOR THRESHOLD - CARPET TO RESILIENT FLOORING
3" = 1'-0"



9 EXT. DOOR THRESHOLD AT BLDG B & C
3" = 1'-0"

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HY Architects Project number: 4539

Facility

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

DOOR DETAILS

Client Project Number: | Client Proj. #

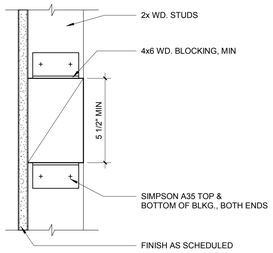
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Sheet **A8.10**

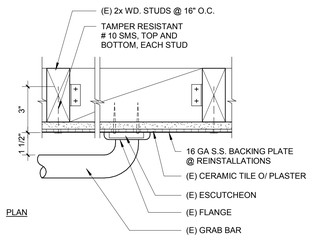
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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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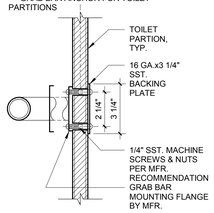


26 TYP. WOOD BLOCKING
3" = 1'-0"

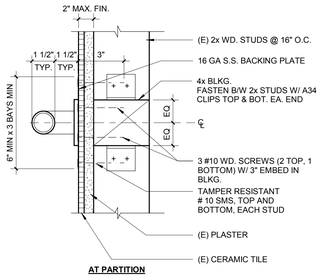


PLAN

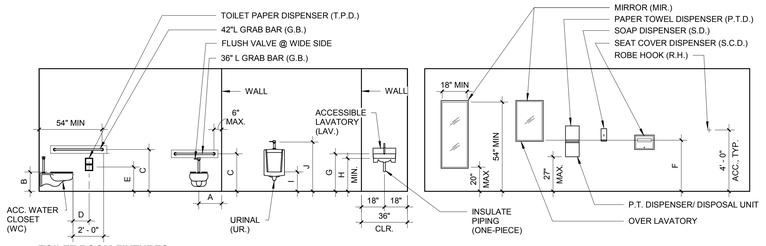
TOILET PARTITION NOTES:
1. GRAB BAR ASSEMBLY SHOWN SEPARATE FROM MOUNTING FLANGE FOR CLARITY
2. BASIS OF DESIGN: BOBRICK 258 SERIES GRAB BAR ANCHOR FOR TOILET PARTITIONS



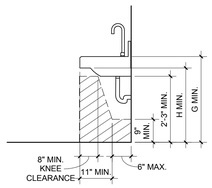
AT TOILET PARTITION



AT PARTITION



TOILET ROOM FIXTURES | **TOILET ROOM ACCESSORIES**



TYPICAL ACCESSIBLE MOUNTING HEIGHTS

DESCRIPTION	DIM.	ADULT (INCHES)	AGES 9 THROUGH 12	AGES 5 THROUGH 8
APPLICABLE ROOMS		A13, A14	A04b, A09, A15	B06, B07
TOILET CENTERING FROM WALL	A	17" - 18"	15" - 18" [1]	12" - 15"
TOILET SEAT HEIGHT/DIMENSIONS TO TOP OF SEAT	B	17" - 19"	15" - 17" [1]	12" - 15"
GRAB BAR HEIGHT (CENTERLINE)	C	33" - 36"	25 - 27" [1]	20" - 25"
TOILET PAPER DISPENSER IN FRONT OF TOILET	D	7" - 9"	-	-
TOILET PAPER DISPENSER HEIGHT	E	19" MIN.	17" - 19"	14" - 17"
DISPENSER OR MIRROR HEIGHT	F	40" MAX[2]	-	-
LAVATORY/SINK TOP HEIGHT	G	34" MAX.	31" MAX[3]	-
LAVATORY/SINK KNEE CLEARANCE	H	27" MIN.	24" MIN[3]	-
URINAL LIP HEIGHT	I	17" MAX	-	-
URINAL FLUSH HANDLE HEIGHT	J	44" MAX	-	-
DRINKING FOUNTAIN BUBBLER HEIGHT	K	36" MAX	-	-
DRINKING FOUNTAIN KNEE CLEARANCE	L	27" MIN	-	-

1. PER CBC TABLE 11B-604.9
2. 40" MAX TO OPERABLE PART OF UNIT.
3. PER CBC 11B-606.2, EXCEPTION 4.

NOTES

1. ALL FIXTURES AND ACCESSORIES ARE ACCESSIBLE UNLESS OTHERWISE NOTED OR DIMENSIONED.
2. SEE INTERIOR ELEVATIONS FOR TOILET ACCESSORY LOCATIONS, U.O.N.
3. ALL ACCESSORIES ARE TO BE ACCESSIBLE WITH A MAXIMUM REACH HEIGHT OF 3'-4" FROM FLOOR TO CENTER OF FUNCTIONAL POINT.
5. AREA BENEATH SINK TO BE FREE OF ALL SHARP OR ABRASIVE SURFACES.
6. REFER TO MTG. HEIGHTS SCHEDULE FOR NON-ADULT DIMENSIONS.
7. FOR REACH RANGE, SEE DET. 5 / A9.01

GRABBARSEC.rvt

22 GRAB BAR DETAILS
3" = 1'-0"

23 TOILET PARTITION @ WALL
3" = 1'-0"

18 ACCESS CLEAR @ DOORS
1/2" = 1'-0"

12 TOILET ROOM MOUNTING HEIGHT
1/4" = 1'-0"

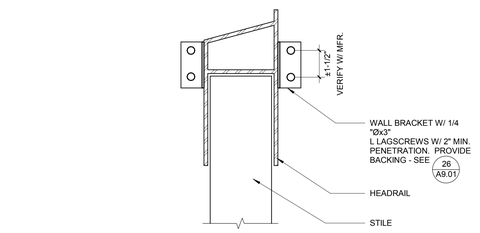
NOTE: X SHALL BE LESS THAN, OR EQUAL TO 25". Z SHALL BE GREATER THAN, OR EQUAL TO X. WHEN X<20", THEN Y SHALL BE 48" MAX. WHEN X IS 20" TO 25" THEN Y SHALL BE 44" MAX. W=27" MIN. WHEN X< 20" AND 30" MIN. WHEN X > 20"

CBC 11B-308

13 REACH RANGE OVER AN OBSTRUCTION
3/8" = 1'-0"

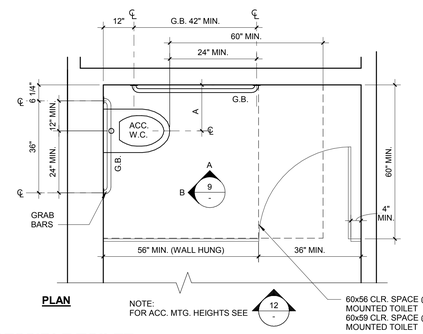
File Name

A. SIDE ELEVATION | **B. FRONT ELEVATION**



19 ACCESSIBLE HI-LO DRINKING FOUNTAIN
1/2" = 1'-0"

24 TOILET PARTITION @ HEAD RAIL
3" = 1'-0"



9 ACCESSIBLE TOILET
1/2" = 1'-0"

acc-toil2.1.rvt

30 (N) BOTTLE FILLER @ (E) ACC DF
1 1/2" = 1'-0"

25 TOILET PARTITION ANCHORAGE
3" = 1'-0"

15 CERAMIC TILE WAINSCOT AND FLOOR DETAILS
3" = 1'-0"

10 MIRROR
3" = 1'-0"

10800-00.40_mirror_D.rvt

PER CBC 11B-308
* PER CBC TABLE 11B-308.4

5 SPACE ALLOWANCE/FORWARD OR SIDE REACH RANGE
3/8" = 1'-0"

File Name

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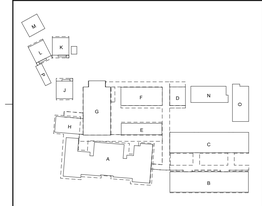
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LICENSED ARCHITECT RAYMUS A. HIBSER C-27362 01-31-2021 RENEWAL DATE STATE OF CALIFORNIA

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Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
TOILET ROOM DETAILS AND MISC. ACC. DETAILS

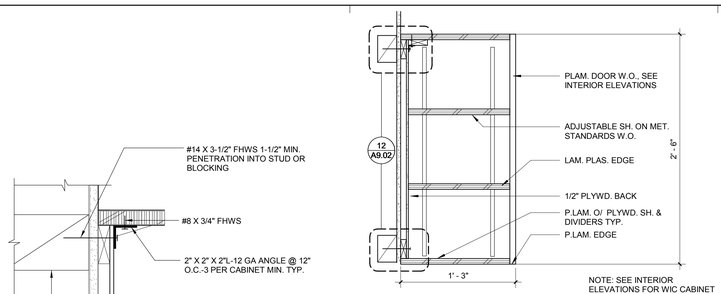
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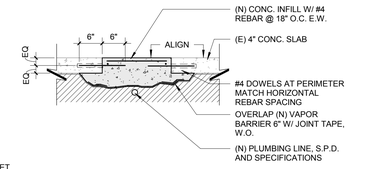
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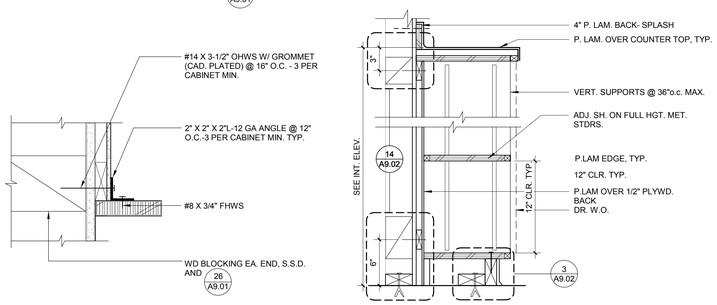


6 WALL HUNG CABINET
1 1/2" = 1'-0"

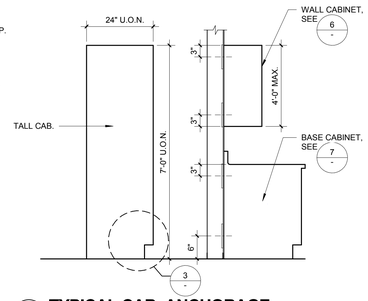
WALL HUNG CABINET.rvt



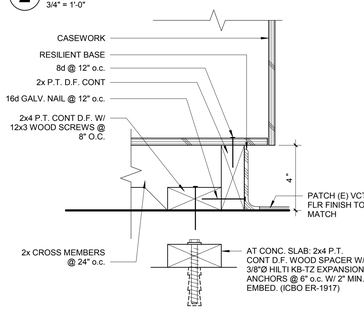
1 SLAB INFILL AT SAWCUT
3/4" = 1'-0"



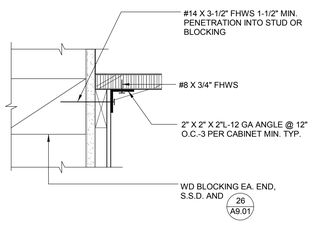
7 BASE CABINET
1 1/2" = 1'-0"



2 TYPICAL CAB. ANCHORAGE
3/4" = 1'-0"

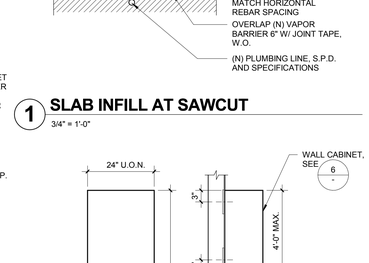


3 CABINET BASE ANCHOR
3" = 1'-0"

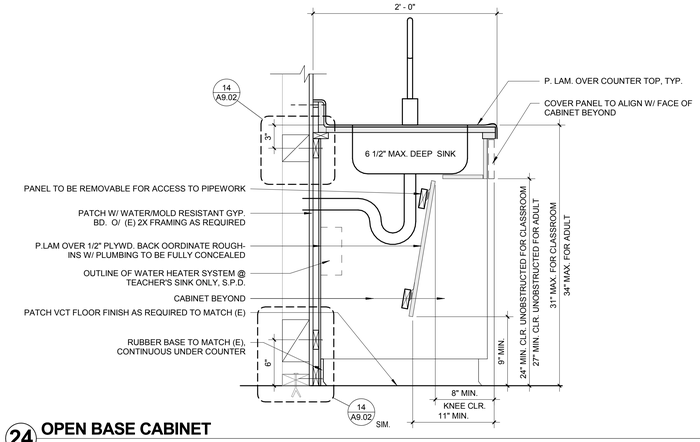


12 ANCHORAGE - UPPER CABINET
3" = 1'-0"

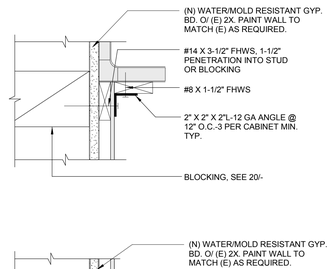
9 MECHO SHADE
3" = 1'-0"

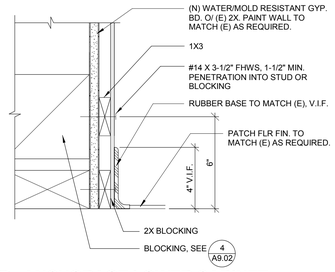


4 TYPICAL BLOCKING
3" = 1'-0"

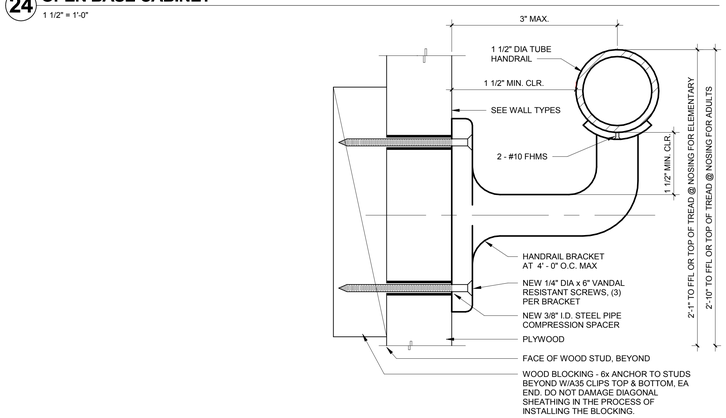


24 OPEN BASE CABINET
1 1/2" = 1'-0"

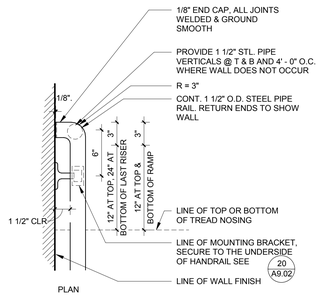




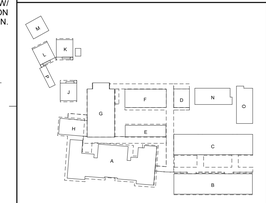
14 ANCHORAGE LOWER CABINET
3" = 1'-0"



20 HANDRAIL @ WOOD
3" = 1'-0"



15 HANDRAIL @ WALL
1 1/2" = 1'-0"



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Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

INTERIOR DETAILS

Client Project Number: Client Proj. #

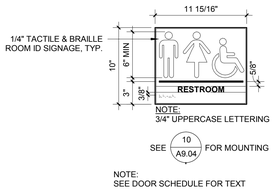
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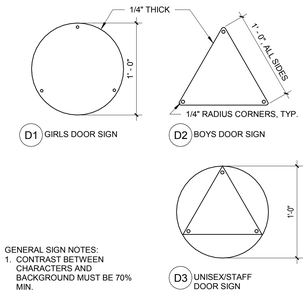
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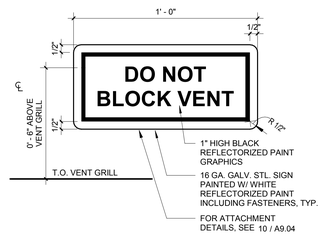
11 TOILET WALL SIGNAGE

1 1/2" = 1'-0"



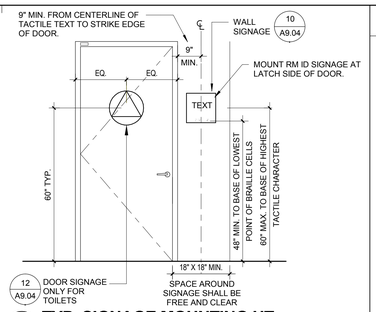
12 TOILET RM. DR. SIGNAGE

1 1/2" = 1'-0"



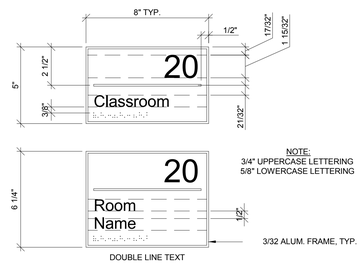
13 GATE MOUNTED SIGNAGE

3" = 1'-0"



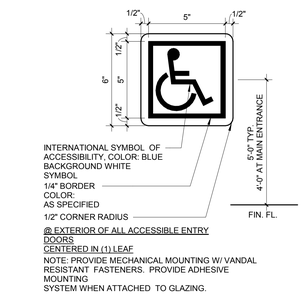
6 TYP. SIGNAGE MOUNTING HT.

1/2" = 1'-0"



7 ROOM SIGNAGE - SIGN TYPE A

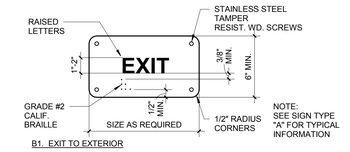
3" = 1'-0"



8 ACCESSIBILITY SIGN

3" = 1'-0"

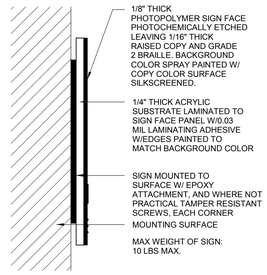
ACCESSIGN.rvt



9 TACTILE EXIT SIGNS - SIGN TYPE B

3" = 1'-0"

TYPE H EXIT SIGNS.rvt



10 SIGNAGE INSTALL DETAIL

6" = 1'-0"

SHEET NOTES

1. SEE DOOR SCHEDULE FOR SIGNAGE ON OR ADJACENT TO DOORS. SEE DETAIL FOR MOUNTING HEIGHTS. FOR ROOM SIGNAGE AND TACTILE EXIT SIGNS, SET ROOM SIGNAGE ALONGSIDE DOOR AT LATCH SIDE; AT DOUBLE DOORS WITH INACTIVE LEAF, ON INACTIVE LEAF; AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, RIGHT OF RIGHT DOOR; WHERE THERE IS NO WALL SPACE, LOCATE ON NEAREST ADJACENT WALL.

2. EDGES AND CORNERS: EDGES OF SIGNS SHALL BE ROUNDED, CHAMFERED OR EASED. CORNERS OF SIGNS SHALL HAVE A MINIMUM RADIUS OF 1/8".

3. MOUNTING: SEE DETAIL 10/- FOR MOUNTING OF ALL SIGNS U.N.O.

4. CHARACTER HEIGHT AND RAISED THICKNESS: SEE DETAILS.

5. CASE: ALL CHARACTERS SHALL BE UPPER CASE. SEE DOOR SCHEDULE FOR LOCATION-SPECIFIC TEXT.

6. STYLE: CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORM.

7. CHARACTER PROPORTIONS: CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPER CASE LETTER "I".

8. STROKE THICKNESS: STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE *10 PERCENT MINIMUM TO* 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.

9. CHARACTER SPACING: CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8 INCH (3.2 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16 INCH (1.6 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS, AND 1/8 INCH (3.2 MM) MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH (9.5 MM) MINIMUM.

10. LINE SPACING: SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT.

11. FINISH AND CONTRAST: PICTOGRAMS, TEXT AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS AND TEXT SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

12. BRAILLE: BRAILLE TEXT SHALL BE CONTRACTED (GRADE 2) WITH DOMED OR ROUNDED SHAPE DOTS PER CBC 11B-703.3. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS AND ACRONYMS. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT.

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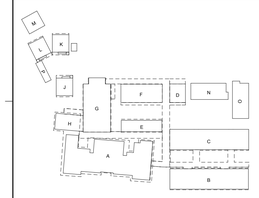
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Sheet Title
SIGNAGE DETAILS

Client Project Number: Client Proj. #

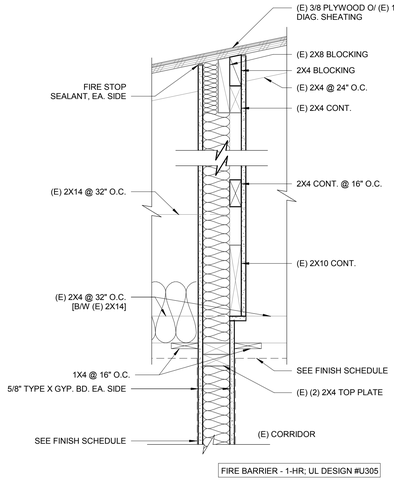
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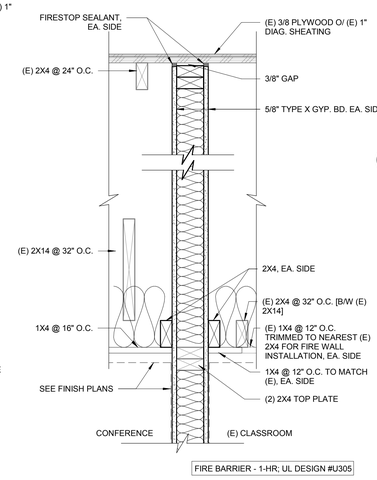
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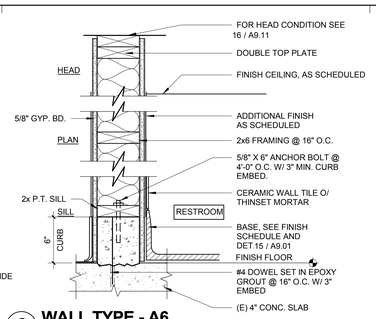
17 FIRE STOPPING ASSEMBLY ⊥ TO JOISTS

1 1/2" = 1'-0"



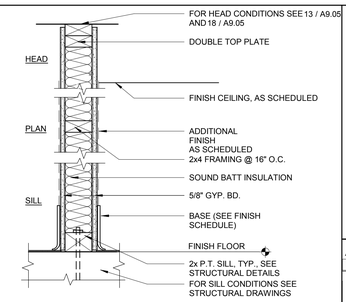
12 FIRESTOPPING ASSEMBLY II TO JOIST

1 1/2" = 1'-0"



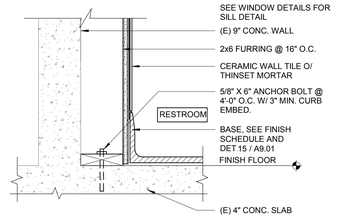
6 WALL TYPE - A6

1 1/2" = 1'-0"



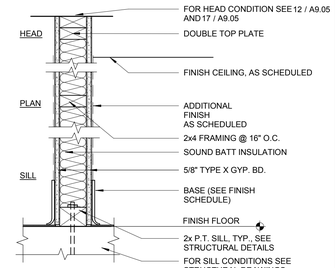
1 WALL TYPE - A1

1 1/2" = 1'-0"



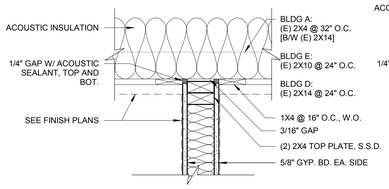
7 WALL TYPE - A7

1 1/2" = 1'-0"



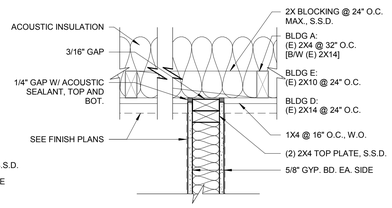
2 WALL TYPE - A2

1 1/2" = 1'-0"



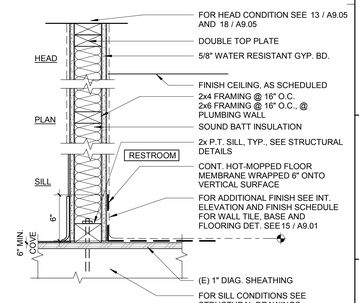
18 WALL TYPE - A1 HEAD ⊥ TO JOISTS

1 1/2" = 1'-0"



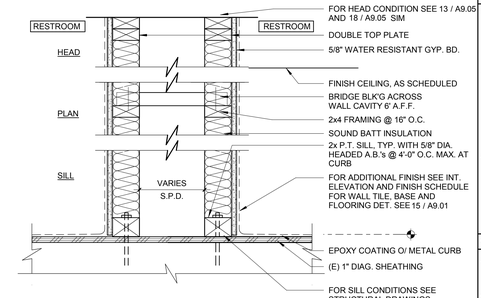
13 WALL TYPE - A1 HEAD ‖ TO JOISTS

1 1/2" = 1'-0"



4 WALL TYPE - A4

1 1/2" = 1'-0"



5 WALL TYPE - A5

1 1/2" = 1'-0"

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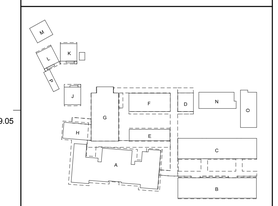
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HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

INTERIOR PARTITION DETAILS

Client Project Number: Client Proj. #

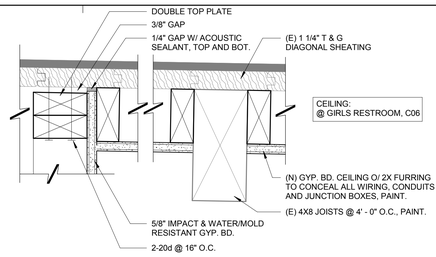
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Issue Date: 03/11/19
Revit Version: 2017

Sheet **A9.05**

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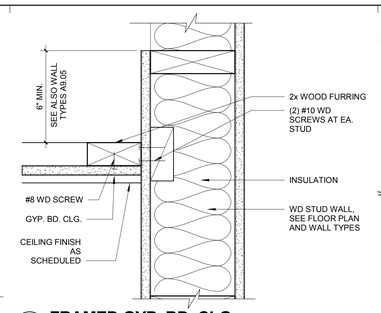
GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY



16 GIRLS RESTROOM_C06 WALL FURRING @ CEILING

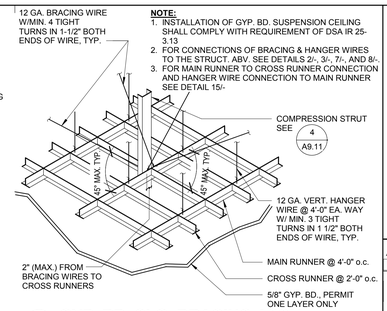
3" = 1'-0"



6 FRAMED GYP. BD. CLG.

3" = 1'-0"

GB FRAMED CLG.rvt



NOTE:
1. INSTALLATION OF GYP. BD. SUSPENSION CEILING SHALL COMPLY WITH REQUIREMENT OF DSA IR 25-3.13
2. FOR CONNECTIONS OF BRACING & HANGER WIRES TO THE STRUCT. ABV. SEE DETAILS 2/-, 3/-, 7/-, AND 8/-
3. FOR MAIN RUNNER TO CROSS RUNNER CONNECTION AND HANGER WIRE CONNECTION TO MAIN RUNNER SEE DETAIL 15/-

1 GYP. BD. CLG. BRACING ASSM.

3" = 1'-0"

xgypclg_brac_assm.rvt

GYPSUM BOARD CEILING SUSPENSION CONVENTIONAL CONSTRUCTION--ONE LAYER
DSA IR 25-3.13 (rev 04-08-14)

1. MATERIALS:
Materials are to comply with CBC Section 2508 and applicable ASTM standards. Gypsum wallboard is either 1/2 inch or 5/8 inch in thickness. Cold-formed steelsections specified in this IR are identified by a product designator which has been standardized by the American Iron and Steel Institute (AISI) in collaboration with the Steel Stud Manufacturers Association (SSMA).

2. DESIGN:
The prescriptive requirements of this IR shall be taken as the minimum requirements and apply to a ceiling that is not accessible, has a single layer of gypsum board not exceeding 5/8" thick, and has a total ceiling weight not to exceed four (4) pounds per square foot (psf). A ceiling that is required by CCR Title 24 to be accessible, or otherwise does not meet these limitations, shall be designed to meet the applicable requirements of CBC Sections 1607A and 2508.1, and ASCE 7-10, Section 13.3.1.

3. DETAILS OF CONSTRUCTION:

3.1 General:
Gypsum board ceilings shall not support building components other than air conditioning/heating grills or light fixtures. All such components shall be supported either directly from main runners, or by supplemental framing which is supported by main runners. No vertical loads other than gypsum board dead load shall be applied to cross-furring.

3.2 Vertical Support System:
There are many possible variations of main runner sizes, spacings, and spans listed in ASTM C754-04, Table 7. All of the combinations are acceptable, provided the main runner spacing does not exceed 4'-0" and the ceiling area supported by a hanger wire does not exceed 16 square feet.

3.2.1 Main Runner Spacing and Span:
The main runner most frequently used is a 1-1/2 inch cold rolled channel designated 150U050-54 (1-1/2 inch cold rolled channels weighing 0.414 lbs/ft) spaced no more than 4'-0" o.c. with a hanger wire spacing not to exceed 4'-0" o.c. and no more than 6" from each end of the main runner.

3.2.2 Vertical hanger wires:
Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #9 gage (0.148" diameter) with soft temper and minimum tensile strength = 70 ksi.

3.2.3 Cross-furring: 7/8 inch galvanized steel hat sections, designated 087F125-18, at 24 inches o.c. maximum.

3.3 Connecting Hanger Wires, Steel Framing and Furring:

3.3.1 Hanger wires shall be saddle-tied to the main runners per IR 25-2.13 Figure 3A(F).

3.3.2 Cross furring shall be saddle-tied to the main runners with at least one strand of #16 gage, or two strands of #18 gage tie wire.

3.3.3 Main runners shall be spliced by lapping and interlocking flanges and installing two (2) #8 screws at each end of splice. The lap must be a minimum of 12 inches long.

3.3.4 Cross furring shall be spliced by lapping and interlocking the pieces and installing two (2) #8 screws at each end of splice. The lap must be a minimum of eight (8) inches long.

3.4 Installation and Anchorage of Hanger and Bracing Wires:
Fasten hanger wires with not less than three (3) tight turns within a distance of three inches. Hanger wire loops shall be tightly wrapped and sharply bent to prevent any vertical movement or rotation of the member within the loops (see ASTM E580, Section 5.2.7.2). Fasten bracing wires with four (4) tight turns within a distance of one and one-half (1-1/2) inches. Hanger and bracing wire anchors shall be installed in such a manner that the direction of the anchor aligns as closely as possible with the direction of the wire.

3.4.1 Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.

3.4.2 When drilled-in concrete anchors or power actuated fasteners are used in reinforced concrete for hanger wires, 1 out of 10 must be field tested for 200 lbs. in tension. When drilled-in concrete anchors are used for bracing wires, 1 out of 2 must be field tested for 440 lbs in tension. Power actuated fasteners in concrete are not permitted for bracing wires. If any power actuated fastener or drilled-in anchor fails, see 2013 CBC Section 1913A.7.1 or 191 3.2.11.1*.
Note:Drilled-in anchors or power actuated fasteners embedment depth shall be limited in prestressed concrete to not impinge tensioned reinforcement or special procedures shall be developed to locate and clear tensioned reinforcement.

3.4.3 Provide trapeze or other supplementary support members at obstructions to typical hanger spacing. Provide additional hangers, struts or braces as required at all ceiling breaks, soffits or discontinuous areas. Hanger wires that are more than 1 in 6 out of plumb are to have counter-sloping wires.

4. CEILING FIXTURES, TERMINALS, AND DEVICES:

4.1 All recessed or drop-in light fixtures, as well as ceiling mounted mechanical air terminals and services, shall be supported directly by main runners or by supplemental framing which is supported by main runners and positively attached with screws or other approved connectors to resist a horizontal force equal to the weight of the component. A minimum of two attachments are required at each fixture and component.

4.2 Surface mounted fixtures shall be attached to a main runner with a positive clamping device made of material with a minimum of 14 gage. Rotational spring clamps do not comply.

4.3 Light fixtures, grilles, mechanical terminals, and flexible sprinkler hose fittings or other services weighing greater than 20 lbs. must be independently supported by not less than two (2) taut #12 gage wires where less than 56 pounds, and four (4) taut #12 gage wires where greater than or equal to 56 pounds, and attached to the housing and to the structure above. The wires, including their attachment to the structure above, must be capable of supporting four (4) times the weight of the unit.

4.4 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling per Section 4.1 of this IR. Devices weighing more than 20 lbs. shall be supported from the structure above per Section 4.3 of this IR.

4.5 Penetrations through the ceiling for sprinkler heads and other similar devices that are not integrally tied to the ceiling system in the lateral direction shall have a two (2) inch oversized ring, sleeve or adapter through the ceiling tile to allow free movement of one (1) inch in all horizontal directions. Alternatively, per ASTM E580, Section 5.2.8.5, a flexible sprinkler hose fitting that can accommodate 1 inch of ceiling movement shall be permitted to be used in lieu of the oversized ring, sleeve,or adapter.

4.6 Access Panels:
Access to the space between the ceiling and the floor or roof above shall not be allowed. Small access panels for the inspection, adjustment or repair of utility switches, valves, sensor, etc. may be allowed if the panel is less than 300 square inches. Such panels shall also have a permanently attached warning label as follows:
"Warning:
1) Do not climb, walk, or crawl on the gypsum board ceiling panels or metal framing.
2) Do not store or stow anything on the gypsum board ceiling panels or metal framing."

If fire fighter access is required per CBC Section 1209.2 in attics of combustible construction, the prescriptive suspended ceiling system prescribed in this IR is not applicable, and the ceiling shall be framed and designed for such loading.

5. LATERAL SYSTEM:
A gypsum board ceiling greater than 144 square feet in area shall be designed to resist its own seismic loads, per Section 2 above, and shall not be permitted to be used to resist primary structural loads or other loads. There are two optional lateral systems for this purpose:
·The brace wire system, per Section 5.1.
·The diaphragm system, per Section 5.2. Either or both options may be shown on plans or noted in the specifications.

Notes:
1. If both options are shown on the plans or noted in the specifications, only one option can be used for each separate ceiling area.
2. Fire-rated systems shall be installed per rated listing (i.e. UL, Factory Mutual, etc.) and manufacturers' instruction, and the rated listing may dictate the optional lateral system used.

5.1Brace Wire System:
Lateral force bracing assemblies shall consist of a compression strut and four (4) #12 gage splayed bracing wires oriented 90 degrees from each other (see IR 25-2.13 Figure 1). Lateral force bracing assemblies shall be spaced, per Table 1 for all values of the component importance factor (Ip) of the ceiling.

TABLE 1
LATERAL FORCE BRACE ASSEMBLY SPACING

Design Spectral Acceleration Parameter, Sds	Brace Assembly Spacing
Less than or equal to 1.15	12'x12' Full building Height
Greater than 1.15 and less than or equal to 1.73	8'x12' for z/h greater than 0.5 12'x12' for z/h less than or equal to 0.5
Greater than 1.73	8'x8' for z/h greater than 0.5 8'x12' for z/h less than or equal to 0.5

Where, as defined in ASCE 7-10, Section 13.3.1:
z = height in structure of point of attachment of ceiling with respect to the base.
h = average roof height of the structure with respect to the base.

Where different brace spacing is specified at various stories, the respective ceiling plan shall clearly indicate the brace spacing.

5.1.1 There shall be a brace assembly a distance of not more than one half of the above spacing from each surrounding wall, expansion joint and at the edge of any ceiling vertical offset. For example, where the brace spacing is 8'x12', the distance shall be 4 feet in the direction of the 8 foot spacing and 6 feet in the direction of the 12 foot spacing.

5.1.2 The slope of bracing wires shall not exceed 45 degrees from the plane of the ceiling and shall be taut. Splices in bracing wires are not to be permitted without DSA approval.

5.1.3 Ceiling grid members may be attached to not more than two (2) adjacent walls. Ceiling grid members shall be at least 1 inch free of other walls. If walls run diagonally to ceiling grid system runners, one end of main and cross runners should be free, and a minimum of 1 inch clear of wall.

5.1.4 Suspended ceiling systems with an area of 144 square feet or less, surrounded by walls which connect directly to the structure above, do not require bracing assemblies when attached to at least two adjacent walls and the perimeter walls are designed to carry the ceiling lateral forces

5.2 Diaphragm System:
A suspended gypsum board ceiling may be designed as a horizontal diaphragm to resist its own seismic loads as prescribed in this section. Gypsum board shall not be used in diaphragm ceilings to resist lateral forces imposed by partitions.

5.2.1 Diaphragm Ratios:
Horizontal 2:1 maximum
Vertical 1:1 maximum

5.2.2 A maximum diaphragm shear equal to 50 lbs/ft is allowed with 1 inch or 1-1/4 inch Hi-Lo Type S, or S-12, bugle head screws at 12 inches o.c. at all gypsum board edges (3/8 inch screw edge distance) and at all intermediate supports. A wall constructed similarly can resist the same shear force provided the gypsum board is on the same side of the studs as the ceiling is, and a positive connection between the ceiling and the wall is detailed. The gypsum board diaphragms are to resist lateral loads due to their own weight and/or the ceiling diaphragm(s) only.

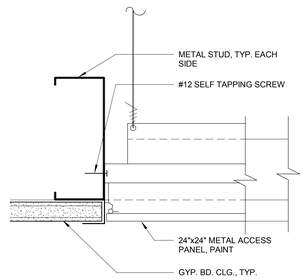
5.2.3 Details are required providing for lateral load transfer from the gypsum board to shear walls, or other lateral load resisting elements, on all four sides of the diaphragm. There shall be no steps or vertical offsets in the ceiling plane.

6. DSA ACCEPTANCE OF EVALUATION REPORTS:
At the discretion of the DSA, proprietary systems may be accepted under all the following conditions:
·Acceptance will be granted on a project specific basis.
·Proprietary systems must meet the requirements of the CBC.
·Proprietary systems must have valid evaluation reports meeting the provisions of DSA IR A-5.

In accordance with DSA IR A-5, DSA will accept OSHPD Preapproved Details (OPD) "2013 CBC Standard Gypsum Board Ceiling Details for Suspended and Joist Framing Construction."

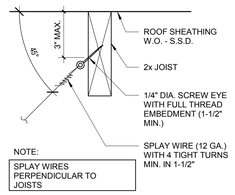
25 CEILING NOTES FOR GYPSUM BOARD SUSPENDED CEILING SYSTEM

12" = 1'-0"



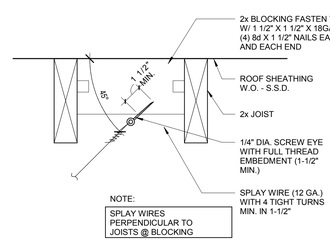
13 ACCESS PANEL @ FRAMED GYP. BD.

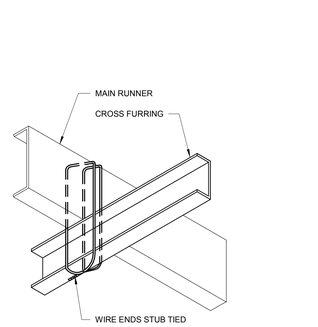
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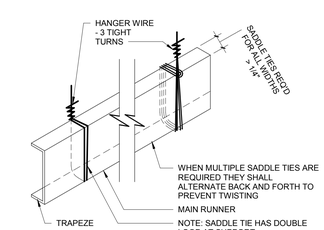


8 TYP. SPLAY WIRE ATTACHMENT GYP. BD.

1 1/2" = 1'-0"



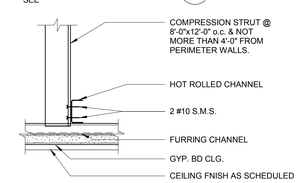




10 WIRE CONNECTION BY SADDLE TIE

3" = 1'-0"

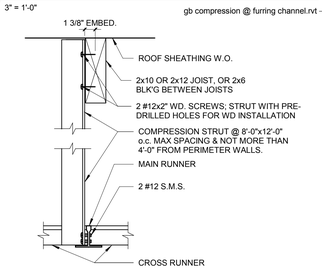
NOTE: FOR CONNECTION TO STRUCTURE ABOVE & OTHER INFO. SEE 5 A9.11



4 COMPRESSION STRUT

3" = 1'-0"

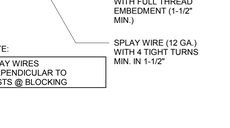
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COMPRESSION STRUT:
UP TO 3'-0" USE 1-1/2"x1-1/2"x16 GA. ∠ ; FOR OVER 3'-0" TO 5'-0" USE 3"x3"x16 GA. ∠ ; FOR OVER 5'-0" TO 10'-0" USE P1001 UNISTRUT

5 TYP. COMPRESSION STRUT GYP. BD.

1 1/2" = 1'-0"



2 TYP. VERT. WIRE ATTACHMENT GYP. BD.

1 1/2" = 1'-0"

typ vert wire attachment.rvt

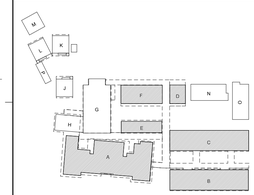
Revisions

No.	Revisions	By	Date	Appr.

BID SET
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03/11/2019

DSA APPROVAL

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LICENSED ARCHITECT
RAYMOND A. HIBSER
C-27362
01-31-2021
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STATE OF CALIFORNIA

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HY Architects Project number: 4539

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

SUSPENSION SYSTEM FOR GYP. BD. CEILING - DETAILS

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: OA
Checked By:CD
Issue Date: 03/11/19
Revit Version: 2017

Sheet **A9.11**

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GRAPHIC SCALES: 1/16" = 1'-0" (0, 5', 50') · 1/8" = 1'-0" (0, 5', 25') · 1/4" = 1'-0" (0, 1', 12') · 1/2" = 1'-0" (0, 1', 6') · 3/4" = 1'-0" (0, 4') · 1" = 1'-0" (0, 1', 3') · 1 1/2" = 1'-0" (0, 2') · 3" = 1'-0" (0, 1')

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

STRUCTURAL NOTES

SECTION 1: GENERAL NOTES

1. ALL WORK SHALL BE IN CONFORMANCE WITH 2016 CALIFORNIA BUILDING CODE (CBC).
2. ALL WORK SHALL BE DONE IN GOOD CRAFTSMANSHIP MANNER.
3. REFER TO ARCHITECTURAL DRAWINGS TO COORDINATE WITH STRUCTURAL DRAWING. ANY DISCREPANCIES BETWEEN THESE DRAWINGS SHALL BE REFERRED TO THE ARCHITECT FOR CLARIFICATION BEFORE BIDDING AND BEFORE STARTING CONSTRUCTION.
4. CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. REQUIRED WORK SHALL INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, WORK CALLED FOR BY NOTES ON BUILDING PLANS. WHILE THE DRAWINGS INDICATE ITEMS TO BE REMOVED, THEY MAY NOT NECESSARILY INDICATE ALL ASPECTS OF WORK REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL ALL WORK NECESSARY TO COMPLETE AND FINISH ALL AREAS IN AND AROUND SUCH ITEMS.
6. WHEN DETAILS LABELED "TYPICAL" OR "SIMILAR" ARE GIVEN ON DRAWINGS, CONTRACTOR SHALL APPLY THE INTENT OF THE DETAILS TO THAT SPECIFIC CONDITION.
7. DESIGN BASIS
   A. APPLICABLE CODE: CALIFORNIA CODE OF REGULATIONS, 2016 EDITION (CCR), TITLE 24, PART 2, ALSO REFERRED TO AS CALIFORNIA BUILDING CODE (CBC) WITH DIVISION OF THE STATE ARCHITECT/STRUCTURAL SAFETY SECTION.
   B. BUILDING INFORMATION
      1. OCCUPANCY CATEGORY : III
      2. LATERAL FORCE RESISTING SYSTEM ; PLYWOOD SHEAR WALL SYSTEM
   C. VERTICAL LOADS:
      1. ROOF DEAD LOAD: 15 PSF
      2. ROOF LIVE LOAD: 20 PSF (REDUCIBLE)
      3. CEILING LIVE LOAD: 10 PSF
   D. LATERAL LOADS:
      1. SEISMIC: S_{DS} = 1.326 ; S_{S1} = 0.935 ; I = 1.25 R = 6.5 ; SDC = E ; SITE CLASS = D

SECTION 2: FOUNDATION NOTES

1. SEISMIC CRITERIA HAS BEEN ESTABLISHED BASED ON THE MINIMUM REQUIREMENT OF CHAPTER 18 OF 2016 CBC. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
2. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT BACKFILL BEHIND RETAINING WALL BEFORE CONCRETE HAS ATTENDED FULL DESIGN STRENGTH. ALL BACKFILL SHALL HAVE 95% COMPACTION.
3. ALLOWABLE SOIL BEARING PRESSURES ON SOIL ARE:
   DEPTH BELOW GRADE D+L
   1500 PSF
4. EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE STRUCTURE. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY.
5. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATION. NOTIFY ARCHITECTS PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED.

SECTION 3: CONCRETE

1. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS
2. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENT EDITION ACI-318-14, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," EXCEPT AS MODIFIED BY THE SUPPLEMENT REQUIREMENTS HEREIN AND CHAPTER 19A OF TITLE 24.
3. CONCRETE SHALL ATTAIN THE FOLLOWING PROPERTIES:

LOCATION	TYPE	WEIGHT	@ 28 DAYS
FOUNDATION/SOG	HARDROCK	145 PCF	3,000 PSI

4. MINIMUM CONCRETE COVER FOR REINFORCING STEEL:
   a. SURFACES PLACED AGAINST EARTH 3"
   b. FORMED SURFACES BELOW GRADE 2"
   c. SURFACES EXPOSED TO WEATHER 2" (#4 & #5 EXPOSED TO WEATHER 2-8")
   d. EXTERIOR WALL AT EXTERIOR FACE 1-1/2"
   e. SLABS AND WALLS NOT EXPOSED TO WEATHER 3/4"
5. ALL EXPOSED EDGES AND CORNERS SHALL HAVE THE PROFILES AS INDICATED ON THE ARCHITECTURAL DRAWINGS
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO INSURE THAT ALL EMBEDDED BOLTS, BLOCKOUTS, SLEEVES, ETC. ARE PROPERLY LOCATED AND INSTALLED BEFORE POURING CONCRETE
7. ALL REINFORCING STEEL BARS SHALL CONFORM WITH THE STANDARD SPECIFICATIONS FOR DEFORMED BILLET-STEEL FOR CONCRETE REINFORCING, ASTM A615. ALL BARS SHALL BE GRADE 60 UNLESS OTHERWISE NOTED
8. REINFORCING STEEL DETAILING, FABRICATION, ACCESSORIES AND PLACEMENT SHALL CONFORM TO THE MOST RECENT EDITION ACI-318-14, "MANUAL OF STANDARD PRACTICE"
9. CONTINUOUS STEEL SHALL BE DETAILED IN AS LONG A LENGTH AS PRACTICAL AND SHALL HOOK AROUND CORNERS FROM BOTH DIRECTIONS TO FORM A SPLICE LENGTH
10. COUPLER NUT TO DEVELOP 125% Fy OF REBARS TEST 50% OF COUPLER NUTS.
11. ALL REINFORCEMENT, EMBEDMENTS, INSERTS, ETC., SHALL BE POSITIVELY SECURED IN PROPER LOCATION BEFORE CONCRETE IS PLACED. pROVIDE SUFFICIENT SUPPORTS TO PREVENT DISPLACEMENT DURING PLACING AND FINISHING OPERATIONS.
12. REINFORCING SHALL BE CONTINUOUS WITH SPLICES ONLY WHRE SHOWN, STAGGER SPLICES 24" (END TO END AND CLEAR AT EVERY OTHER BAR) WHEREVER POSSIBLE.
13. THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR FORMWORK DRAWINGS AND DESIGN.
14. THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR MIX DESIGNS ACCORDING TO ACI AND BASED UPON FILED EXPERIENCE OR TRIAL BATCHES.
15. EPOXY GROUT FOR POST INSTALLED REBAR/THREADED DOWEL INTO (E) CONCRETE SHALL BE HILTI HIT-RE 500 V3 (ESR-3814)

SECTION 4: STRUCTURAL AND MISCELLANEOUS METAL

1. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS
2. THESE NOTES SHALL APPLY EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SHOWN ON THE DRAWINGS
3. STRUCTURAL STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," AND THE AMERICAN WELDING SOCIETY CODE, AWS D1.0, "WELDING IN BUILDING CONSTRUCTION" AND CHAPTER 22A OF TITLE 24.
4. ANCHORD BOLTS SHALL BE ASTM A307, THROUGH BOLTS AT MOMENT FRAME SHALL BE ASTM A325 SC, WELDED STUDS SHALL BE A108, UNLESS OTHERWISE NOTED

SECTION 5: CARPENTRY

1. ALL FRAMING SHALL BE NO. 1 OR BETTER GRADE DOUGLAS FIR-LARCH OR EQUIVALENTS AND AS SPECIFIED ON PLANS.
2. POST, MULLIONS, JOISTS AND STUDS SHALL BE NO. 1 GRADE DOUGLAS FIR-LARCH. SELECT STRUCTURAL WHERE EXPOSED.
3. SILL PLATE SHALL BE PRESSURE TREATED NO. 1 GRADE DOUGLAS FIR-LARCH.
4. ALL JOISTS FRAMED FLUSH WITH BEAMS OR HEADER SHALL HAVE JOIST HANGERS.
5. NAILING FOR FRAMING SHALL BE WITH COMMON WIRE NAILS, NUMBER AND SIZE AS PER NAILING SCHEDULE, EXCEPT AS NOTED OTHERWISE ON PLANS.
6. NAILS SHALL NOT BE DRIVEN CLOSER TOGETHER THAN 1/2 THEIR LENGTH, NOR CLOSER TO THE EDGE OF MEMBER THAN 1/4 THEIR LENGTH, EXCEPT FOR SHEATHING. PENETRATION SHALL BE 1/2 THE NAIL LENGTH OR 1 5/8" MINIMUM.
7. HOLES SHALL BE PRE-DRILLED FOR NAILS WHICH TEND TO SPLIT WOOD. DRILLED HOLES SHALL BE 7/8 NAIL DIAMETER.
8. THE LEAD HOLE FOR THE THREADED PORTION OF THE LAG SCREW SHALL HAVE A DIAMETER EQUAL TO 40% TO 70% AND SHALL HAVE A LENGTH EQUAL TO AT LEAST THE LENGTH OF THREADED PORTION. THE LAG SCREW SHALL BE TURNED IN ITS LEAD HOLE WITH A WRENCH, NOT BY DRIVING WITH A HAMMER.
9. UPSET BOLTS ARE NOT PREMITTED.
10. RE-TIGHTEN ALL BOLTS PRIOR TO CLOSING IN WALLS.
11. ALL FASTENERS ATTACHED TO PRESSURE TREATED MEMBERS SHALL BE HOT DIPPED GALVANIZED.
12. MAX MOISTURE CONTENT FOR NO. 1 DFL SHALL BE < 19% AT TIME OF INSTALLATION.
13. ALL WOOD MEMBERS IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
14. EACH PANEL SHALL BE IDENTIFIED WITH THE APPROPRIATE GRADE, TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF OF THE U.S. PRODUCTS STANDARD PS-1-95. PLYWOOD GRADE SHALL CONFORM TO STRUCTURAL 1 GRADE WITH EXTERIOR GLUE, UNLESS OTHERWISE NOTED.
15. PLYWOOD SHEETS SHALL BE THICKNESS NOTED ON DRAWINGS
16. PLYWOOD SHEETS SHALL BE LAID WITH FACE GRAIN PERPENDICULAR TO JOISTS, STAGGERED. CONTINUOUS HORIZONTAL JOINTS AT WALL SHALL BE BLOCKED WITH 2x OR 3x BLOCKING.
17. PARALLAM PARALLEL STRAND LUMBER SHALL BE AS MANUFACTURED BY ILEVEL TRUSS JOIST MACMILLIAN. DESIGN CRITERIA IS FOLLOWS:
    MINIMUM STRESS VALUES:
    POSITIVE BENDING, Fb ---------- 2,900 PSI
    HORIZONTAL SHEAR, Fv ---------- 290 PSI
    COMPRESSION PERPENDICULAR TO GRAIN, Fc ---- 750 PSI
    MODULUS OF RIGIDITY, E ---------- 200,000 PSI
    FOR PSL HEADERS AND BEAMS WITH DEPTH LESS THAN 20 INCHES, THE MODULUS OF ELASTICITY IS 2.0x10 PSI.
    FOR PSL HEADERS AND BEAMS WITH DEPTH GREATER THAN 20 INCHES, MODULUS OF ELASTICITY IS 2.2x10 PSI.

SECTION 6: DRYPACK

1. DRYPACK SHALL BE 5,000 PSI NON-SHRINK GROUT, FIVE STAR OR EQUIVALENT APPROVED.
2. INSTALL DRYPACK UNDER ALL BEAM BEARING PLATES PRIOR TO FRAMING MEMBER IS INSTALLED.
3. INSTALL DRYPACK UNDER ALL COLUMN BASE PLATES AFTER COLUMN HAS BEEN PLUMBED; PRIOR TO FLOOR OR ROOF INSULATION

SECTION 8: TEST & INSPECTIONS

1. PROVIDE TESTS AND INSPECTION FOR ALL ITEMS AS REQUIRED BY THE CALIFORNIA BUILDING CODE 2016 EDITION.
2. THE OWNER SHALL BE RESPONSIBLE FOR RETAINING AN INDEPENDENT TESTING LAB TO PERFORM ALL REQUIRED TESTING AND INSPECTIONS
3. THE FOLLOWING ITEMS AND ALL OTHER ITEMS AS REQUIRED BY TITLE 24 SHALL BE INSPECTED AND/OR TESTED BY THE LAB. (SEE ALSO TEST AND INSPECTION LIST)
   a. REINFORCING STEEL, ANCHOR BOLTS, GRADING AND SOIL COMPACTION.
   b. INSTALLATION OF ALL EMBEDDED ANCHORS AND EPOXY DOWELS.
   c. INSTALLATION OF EXPANSION ANCHORS.
   d. GLUE-LAMINATED LUMBER.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER/PROJECT OR SPECIAL INSPECTOR A MINIMUM OF 48 HOURS PRIOR TO TIME OF INSPECTION
5. SUBMIT COMPLETE RECORD OF ALL TESTING AND INSPECTION OF WORK.

SECTION 9: CONTRACTOR SUBMITTALS

1. PROVIDE SHOP DRAWINGS FOR ALL REINFORCEMENT, STEEL AND EMBEDS. SHOWING BENDING, PLACEMENT DETAILS, SIZE AND LOCATION.
2. PROVIDE CERTIFIED COPIES OF ALL CONCRETE MIX DESIGNS INCLUDING COMPRESSIVE STRENGTH TEST REPORTS ONE WEEK PRIOR TO INSPECTION OF WORK.

LEGEND

- GRID LINES AND BUBBLES EMPTY=MORE THAN ONE
- SECTION OR DETAIL NUMBER / SECTION MARK / SHEET WITH SECTION OR DETAIL
- DETAIL MARK
- SECTION MARK ON DETAIL DRAWING
- REVISION I.D. / NUMBER
- SPAN DIRECTION
- ELEVATION — ELEVATION
- W.P. — WORK POINT
- SPREAD FOOTING — PLANS
- MARK — FOOTING MARK
- STEEL COLUMN ABOVE FLOOR
- STEEL COLUMN BELOW FLOOR
- WOOD POST ABOVE FLOOR
- WOOD POST BELOW FLOOR
- NEW CONCRETE — SECTIONS
- STEEL
- EARTH
- GRAVEL

ABBREV.

- ø – DIAMETER
- & – AND
- @ – AT
- ℄ – CENTER LINE
- ℇ – PLATE
- ABT. – ABOUT
- A.B. – ANCHOR BOLT
- ABV. – ABOVE
- ADDL. – ADDITIONAL
- BLDG. – BUILDING
- BLKG. – BLOCKING
- BM. – BEAM
- B.S. – BOTH SIDES
- BOTT. – BOTTOM
- BTWN. – BETWEEN
- BLW. – BELOW
- CL – CENTERLINE
- CLR. – CLEAR
- CMU. – CONCRETE MASONRY UNIT
- COL. – COLUMN
- C.P. – COMPLETE PENETRATION
- CLG. – CEILING
- CONC. – CONCRETE
- CONN. – CONNECTION
- C.J. – CONSTRUCTION JOINT
- CONT. – CONTINUOUS
- DET. – DETAIL
- DIA. – DIAMETER
- DS. – DIAGONAL SHEATHING
- DWG. – DRAWING
- (C) – EXISTING
- EA. – EACH
- E.F. – EACH FACE
- E.S. – EACH SIDE
- E.N. – EDGE NAIL
- ELEV. – ELEVATION
- EMBED. – EMBEDMENT/EMBEDDED
- EQ. – EQUAL
- (E) – EXISTING
- FDN. – FOUNDATION
- FLR. – FLOOR
- F.N. – FIELD NAILING
- F.S. – FAR SIDE
- FTG. – FOOTING
- GA. – GAGE
- GALV. – GALVANIZED
- G.B. – GRADE BEAM
- HDG – HOT-DIP GALVANIZED
- HORIZ. – HORIZONTAL
- HT. – HEIGHT
- INFO. – INFORMATION
- K.P. – KING POST
- LL. – LIVE LOAD
- LLH. – LONG LEG HORIZONTAL
- LLV. – LONG LEG VERTICAL
- M.B. – MACHINE BOLT
- MAX. – MAXIMUM
- MIN. – MINIMUM
- N.S. – NEAR SIDE
- (N) – NEW
- N.I.C. – NOT IN CONTRACT
- N.T.S. – NOT TO SCALE
- oc – ON CENTER
- OPNG – OPENING
- O.H. – OPPOSITE HAND
- O.F. – OUTSIDE FACE
- PEN – PANEL EDGE NAIL
- PL – PLATE
- PLYWD – PLYWOOD
- P.W. – PLYWOOD
- PSL. – PARALLAM
- P.T. – PRESSURE TREATED
- REINF. – REINFORCEMENT
- R.C. – REINFORCED CONCRETE
- REQ. – REQUIRED
- RF. – ROOF
- RFTR. – RAFTER
- SECT. – SECTION
- SAD – SEE ARCHITECTURAL DRAWING
- SLD – SEE LANDSCAPE DRAWING
- SMD – SEE MECHANICAL DRAWING
- SHT. – SHEET
- SHTG. – SHEATING
- SIM. – SIMILAR
- S.B. – SOLID BLOCKING
- SPECS. – SPECIFICATIONS
- SPCG – SPACING
- SQ. – SQUARE
- STAGG. – STAGGERED
- STIFF. – STIFFENER
- STL. – STEEL
- SYMM. – SYMMETRICAL
- T.D.– TIE DOWN
- T.N. – TOE NAIL
- T.O.C. – TOP OF CONCRETE
- T.O.S. – TOP OF STEEL
- TS. – TUBE STEEL
- TYP. – TYPICAL
- U.O.N. – UNLESS OTHERWISE NOTED
- U.N.O. – UNLESS NOTED OTHERWISE
- V.I.F. – VERIFY IN FIELD
- VERT. – VERTICAL
- W.A. – WEDGE ANCHOR
- W/ – WITH
- W/O – WITHOUT
- W.P. – WORK POINT

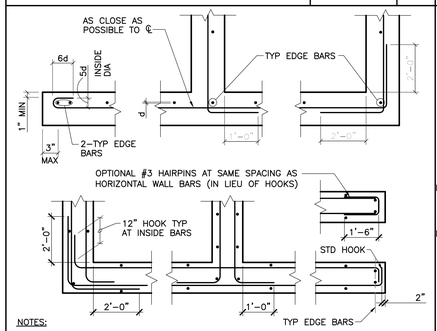
TYPICAL DETAILS

BAR SIZE	CONC. f'c = 3000 PSI: SPLICE TOP BAR	SPLICE OTHER	EMBEDMENT TOP BAR	EMBEDMENT OTHER	REQ'D. 90° HOOK EMBED.
# 3	30	21	23	16	9
# 4	39	29	30	22	11
# 5	49	36	37	27	14
# 6	59	42	45	32	17
# 7	78	56	60	43	20
# 8	100	73	78	56	22
# 9	120	93	100	71	25

NOTES:
1. SPLICE AND EMBEDMENT LENGTHS ARE INCHES. SPLICE ARE CLASS "B" UNLESS SPECIFICALL NOTED ON DRAWINGS. MULTIPLY BY THE APPLICABLE FACTOR(S) BELOW.
2. TOP BARS REFER TO HORIZONTAL BARS WITH MORE THAN 12" CONCRETE PLACED BELOW DURING A POUR. OTHER BARS ARE BOTTOM OR VERTICAL BARS.
3. 0.80 OF SLICE LENGTH MAY BE USED IF LESS THAN 1/2 OF THE BARS ARE LAP SPLICED WITHIN A REQUIRED LAP LENGTH, OR BARS SPACED AT 6d O.C. OR GREATER.
4. WHERE CLEAR SPACE BETWEEN BARS LAP SPLICED AT ANY SECTION IS LESS THAN 2 BAR DIAMETERS, OR WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER, INCREASE THE LAP LENGTH BY 50%
5. WHERE LIGHTWEIGHT CONCRETE IS USED, INCREASE LAP SPLICE LENGTH BY 30%
6. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED.
7. SPLICES IN WALLS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.
8. WHERE REQUIRED EMBEDMENT IN MAIN BARS CANNOT BE OBTAINED WITH STRAIGHT BARS PROVIDE 90° HOOK NOT LESS THAN $12d_b$ TAIL LENGTH (U.O.N. ON DETAILS)
9. IN SHOTCRETE WALL SPLICES IN REINFORCING BARS SHALL BE BY THE NON-CONTACT LAP SPLICE METHOD WITH AT LEAST 2 INCHES CLEARANCE BETWEEN BARS. THE BUILDING OFFICIAL MAY PERMIT THE USE OF CONTACT LAP SPLICES WHEN NECESSARY FOR THE SUPPORT OF THE REINFORCING PROVIDED IT CAN BE DEMONSTRATED BY MEANS OF PRE-CONSTRUCTION TESTING, THAT ADEQUATE ENCASEMENT OF THE BARS AT THE SPLICE CAN BE ACHIEVED, AND PROVIDED THAT THE SPLICES ARE PLACED SO THAT A LINE THROUGH THE CENTER OF THE TWO SPLICED BARS IS PERPENDICULAR TO THE SURFACE OF THE SHOTCRETE WORK.
10. SPLICE LENGTHS ARE BASED ON ACI 318-95 SECTION 12.2.3, 12.15 AND CBC 1912A.

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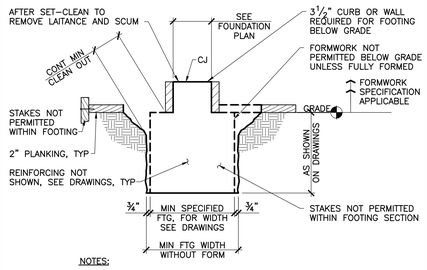
CONC. REINF. LAP SPLICE & EMBED. — 1" = 1'-0" — 1



NOTES:
1. THE DETAILS INDICATE THE BEGINNING OF TYPICAL BARS AND/OR SPECIAL BARS. SPACES BETWEEN THESE BARS SHALL BE REINFORCED AS SCHEDULED.
2. PROVIDE HORIZONTAL AND VERTICAL DOWELS WHERE REQUIRED, AT THE SAME SIZE AND SPACING AS TYPICAL DETAILS. LAP 48 BAR DIAMETER EXCEPT AS NOTED OTHERWISE.

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REINF. IN WALLS & FTG. CORNERS — 1" = 1'-0" — 3

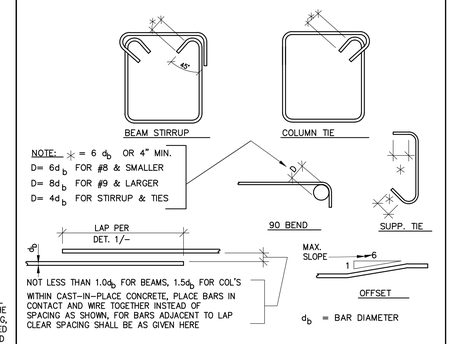


NOTES:

NON-FORMED FOOTINGS ALLOWED UNDER THE FOLLOWING CONDITIONS:
1. SOIL WILL STAND WITHOUT SLUFFING.
2. TRENCH ONE (1) INCH WIDER ON ALL SIDES.
3. PROVIDE POSITIVE PROTECTION OF TOP EDGES.

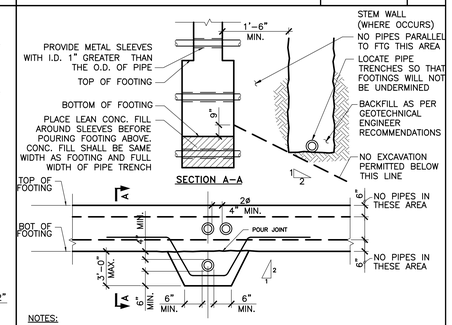
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TYPICAL NON-FORMED FOOTING — 3/4" = 1'-0" — 5



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STD. HOOKS, BENDS & SPACING — 1" = 1'-0" — 2



NOTES:
1. PIPE EMBEDDED IN CONCRETE TO BE PROVIDED WITH FLEXIBLE COUPLINGS @ ENTRY/EXIT POINTS.
2. SLEEVES SHALL BE PVC, 2" LARGER THAN PIPE.
3. NO PIPE TO RUN PARALLEL IN FOOTINGS, STEM OR CURB.
4. WRAP PIPES IN 0.5" FOAM SHEET, 3 LAYERS MINIMUM.
5. SUBMIT TO EOR WHERE GROUP OF PIPEs ARE REQUIRED.

04/2079 03/24/04 04/2079

PIPES AND TRENCHES — 1/2" = 1'-0" — 4

Revisions

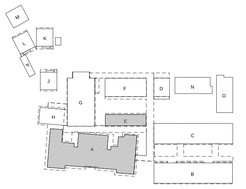
No.	Revisions	By	Date	Appr.

BID SET
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03/11/2019

DSA APPROVAL

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DATE ____

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KYASE JOB # 16,201D



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Architect/Engineer Of Record: _____

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HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

GENERAL NOTES AND TYPICAL DETAILS

Client Project Number: Client Proj. #

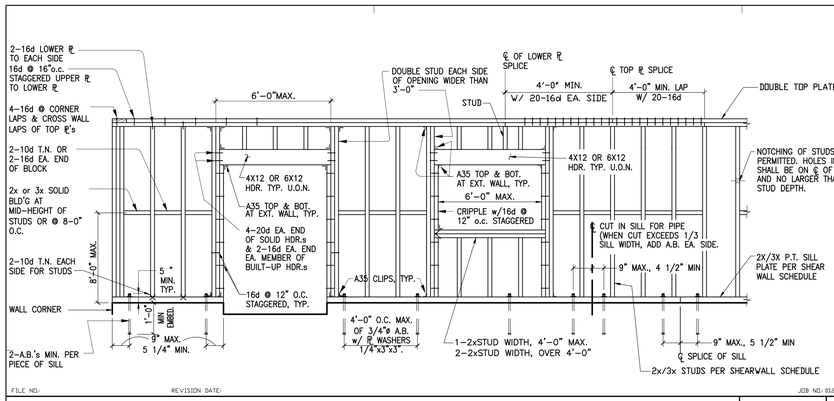
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Issue Date: 03/11/19

Sheet **S0.1**

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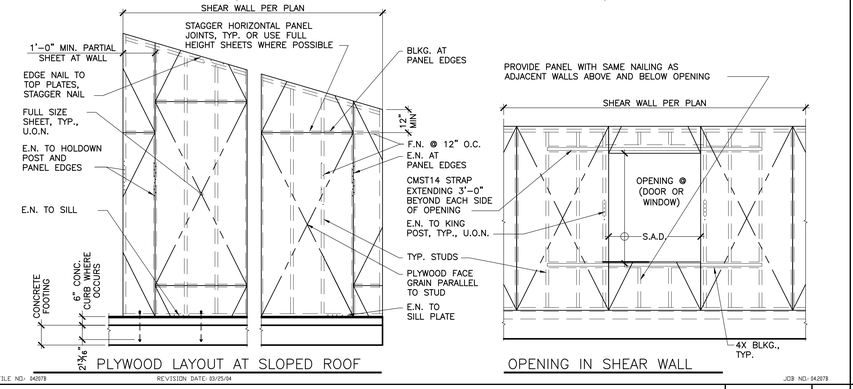
GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY



FILE NO: REVISION DATE: JOB NO: 03-20SL

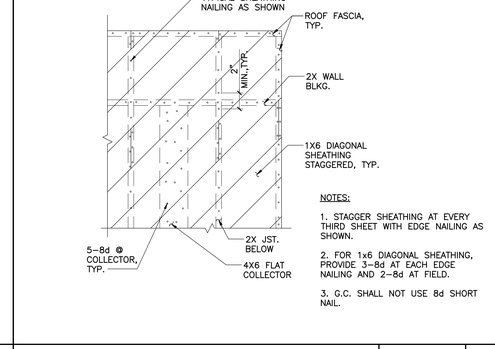
TYPICAL STUDWALL ELEVATION — 1/2" = 1'-0" — 1



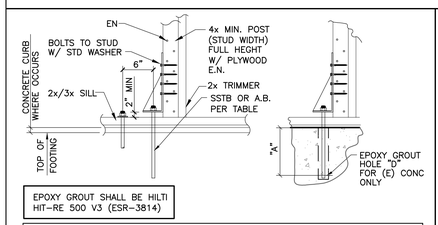
PLYWOOD LAYOUT AT SLOPED ROOF — OPENING IN SHEAR WALL

FILE NO: 042079 REVISION DATE: 03/25/04 JOB NO: 042079

SHEAR WALL LAYOUT AND OPENINGS — 1" = 1'-0" — 2



TYP. 1X6 D.S. ROOF DIAPHRAGM — 3/4" = 1'-0" — 3



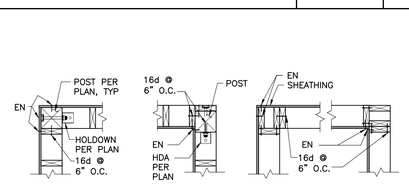
EPOXY GROUT SHALL BE HILTI HIT-RE 500 V3 (ESR-3814)

HOLD-DOWN SCHEDULE

SIMPSON MODEL #	SCREWS TO STUDS	ROD SIZE	SSTB NEW CONCRETE	SSTB EXISTING CONCRETE	DIM "A"	HOLE DIAM "D"	PULL TEST FOR ALL BOLTS INTO (E) CONC, LBS
HDU2	6-SDS¼"x2½"	⅝"ø	N.A.	10"	7/8"	3,075	
HDU4	10-SDS¼"x2½"	⅝"ø	N.A.	10"	7/8"	4,565	
HDU5	14-SDS¼"x2½"	⅝"ø	N.A.	15"	7/8"	5,645	
HDU8	20-SDS¼"x2½"	⅞"ø	N.A.	15"	1 1/8"	6,970	

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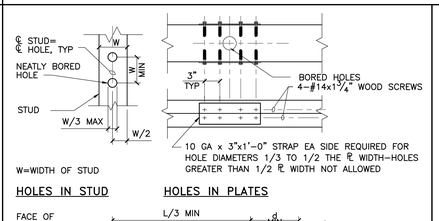
HOLDOWN SCHEDULE — 1" = 1'-0" — 4



NOTE: SEE FRAMING PLAN FOR SHEATHING LOCATIONS.

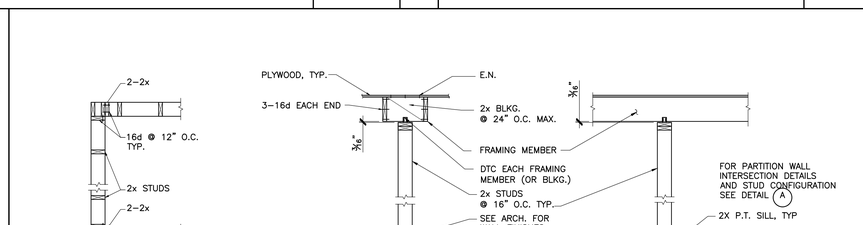
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WALL CORNERS/INTERSECTIONS — 3/4" = 1'-0" — 5



W0002.DWG 05/04/04

TYPICAL HOLES & NOTCHES — 1" = 1'-0" — 6



NOTE: SEE 14/S0.2 FOR WALL BOTTOM OF WALL DETAIL WOOD FRAMING

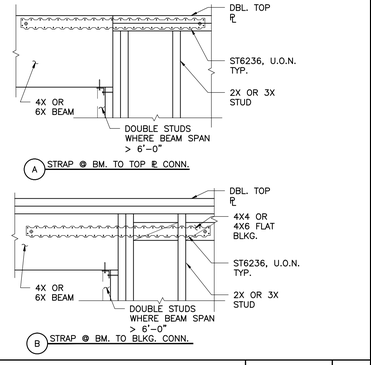
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TYP. NON-BEARING PARTITION FRAMING — 1/2" = 1'-0" — 7

TABLE 2304.9.1 FASTENING SCHEDULE (2016 CBC)

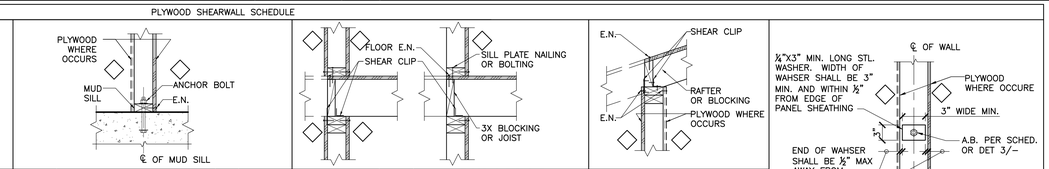
CONNECTION	FASTENING	LOCATION
1. JOIST TO SILL OR GIRDER	3-8d COMMON	TOENAIL
2. BRIDGING TO JOIST	2-8d COMMON	TOENAIL EACH END
3. 1"X6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON	FACE NAIL
4. WIDER THAN 1"X6" SUBFLOOR TO EACH JOIST	3-8d COMMON	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON	BLIND AND FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING	16d @ 16" O.C.	TYPICAL FACE NAIL
7. TOP PLATE TO STUD	2-16d COMMON	END NAIL
8. STUD TO SOLE PLATE	4-8d COMMON	TOENAIL
9. DOUBLE STUDS	16d @ 24" O.C.	FACE NAIL
10. DOUBLE TOP PLATES	16d @ 16" O.C.	TYPICAL FACE NAIL
11. BLOCKING BTWN. JOISTS OR RAFTERS TO TOP PLATES	3-8d COMMON	TOENAIL
12. RIM JOIST TO TOP PLATE	8d @ 6" O.C.	TOENAIL
13. TOP PLATES, LAPS AND INTERSECTIONS	2-16d COMMON	FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON	16" O.C. ALONG EDGE
15. CEILING JOISTS TO PLATE	3-8d COMMON	TOENAIL
16. CONTINUOUS HEADER TO STUD	4-8d COMMON	TOENAIL
17. CEILING JOISTS, LAPS OVER PARTITIONS	3-16d COMMON	FACE NAIL
18. CEILING JOISTS TO PARALLEL RAFTERS	3-16d COMMON	FACE NAIL
19. RAFTER TO PLATE	3-8d COMMON	TOENAIL
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	2-8d COMMON	FACE NAIL
21. 1"X8" SHEATHING TO EACH BEARING	3-8d COMMON	FACE NAIL
22. WIDER THAN 1"X8" SHEATHING TO EACH BEARING	3-8d COMMON	FACE NAIL
23. BUILT-UP CORNER STUDS	16d COMMON	24" O.C.
24. BUILT-UP GIRDER AND BEAMS	20d COMMON @ 32" O.C.	FACE NAIL AT TOP AND BTM. STAGGERED
25. 2" PLANKS	16d COMMON	AT EACH BEARING
26. COLLAR TIE TO RAFTER	3-10d COMMON	FACE NAIL
27. JACK RAFTER TO HIP	3-10d COMMON	TOENAIL
28. ROOF RAFTER TO 2-BY RIDGE BEAM	2-16d COMMON	TOENAIL
29. JOIST TO BAND JOIST	3-16d COMMON	FACE NAIL
30. LEDGER STRIP	3-16d COMMON	FACE NAIL

8



TYPICAL STRAP AT HEADER. — N.T.S. — 9

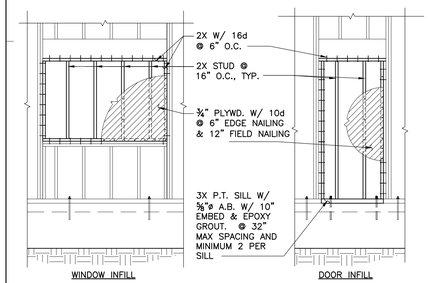
PLYWOOD SHEARWALL SCHEDULE



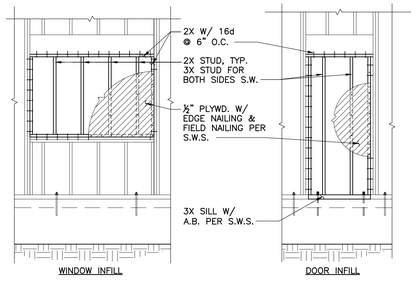
SHEARWALL SYMBOL ⟨1⟩ ⟨2⟩	ANCHOR BOLT	A.B SPACING FOR PLYW ONE SIDED WALL	A.B SPACING FOR PLYW TWO SIDED WALL ⟨3⟩	MUD SILL	WASHER ℄ SIZE	SILL ℄ NAILING, UON	SILL ℄ SIZE	FLOOR SHEAR CLIP FOR PLYW ONE SIDED WALL	FLOOR SHEAR CLIP FOR PLYW TWO SIDED WALL ⟨3⟩	ROOF SHEAR CLIP PLYW. ONE SIDED WALL	ROOF SHEAR CLIP PLYW. BOTH SIDED WALL ⟨3⟩
6	⅝"øX10"	2'-8" O.C	1'-6" O.C	3x	DETAIL 1	16d @ 4" OC	2x	A35 @ 16" OC	A35 @ 8" OC	A35 @ 16" OC	A35 @ 8" OC
4 ⟨3⟩	⅝"øX10"	1'-8" O.C	9" O.C	3x	DETAIL 1	16d @ 3" OC	3x	A35 @ 12" OC	A35 @ 6" OC	A35 @ 12" OC	A35 @ 6" O.C.
3 ⟨3⟩	⅝"øX10"	1'-3" O.C	6" O.C	3x	DETAIL 1	20d @ 3" OC OR 16d @ 2" OC	3x	A35 @ 8" OC	A35 @ 4" O.C.	A35 @ 8" OC	A35 @ 4" O.C.

NOTES:
1. USE 10d COMMON WIRE NAILS UON. ALL NAILS TO P.T. WOOD SHALL BE GALVANIZED.
2. ◇ NUMBER SHOWN IN SYMBOL REPRESENTS PLYWOOD PANEL EDGE NAIL SPACING IN INCHES, PROVIDE FIELD NAILING AT 12" OC
3. PROVIDE 3x FRAMING MEMBERS INCLUDING BLOCKING AT ALL PLYWOOD ADJOINING PANEL EDGES, PLYWOOD JOINT AND SILL PLATE NAILING SHALL BE STAGGERED.
4. PROVIDE ⅜" THICK PLYWOOD U.O.N.
5. ALL PLYWOOD SHEAR WALL SHALL BE FULLY BLOCKED USING MIN. 3x BLOCKING. (U.O.N).
6. LSI90 CLIP SHALL BE INSTALL USING 10dx1½" NAIL.
7. WHERE PLYWOOD PANELS ARE APPLIED ON BOTH FACES OF WALL, PLYWOOD PANEL JOINTS SHALL OCCUR AT 3x FRAMING MEMBERS, INCLUDING BLOCKING, AND NAILS ON EACH SIDE SHALL BE STAGGERED.

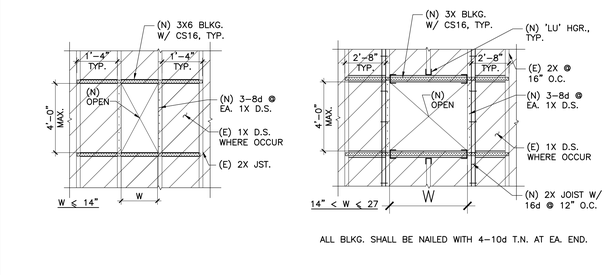
TYPICAL SHEAR WALL SCHEDULE — 1" = 1'-0" — 10



TYP. OPEN INFILL @ EXT. WALL — N.T.S. — 11



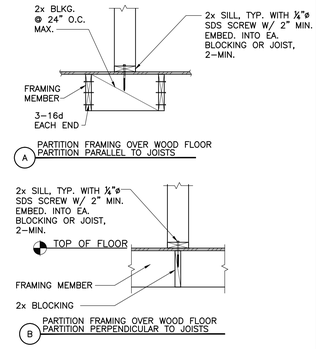
TYP. OPEN INFILL @ SHEAR WALL — N.T.S. — 12



ALL BLKG. SHALL BE NAILED WITH 4-10d T.N. AT EA. END.

TYP. OPENING @ (E) FLOOR — N.T.S. — 13

NOTE: SEE 7/S0.2 FOR WALL TOP TO JOIST ATTACHMENT



DETAIL — N.T.S. — 14

Revisions

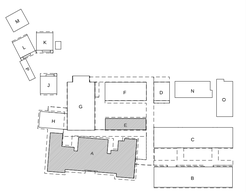
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KYASE JOB # 16.201D



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HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

TYPICAL WOOD FRAMING DETAILS

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: SG
Checked By:KY
Issue Date: 03/11/19

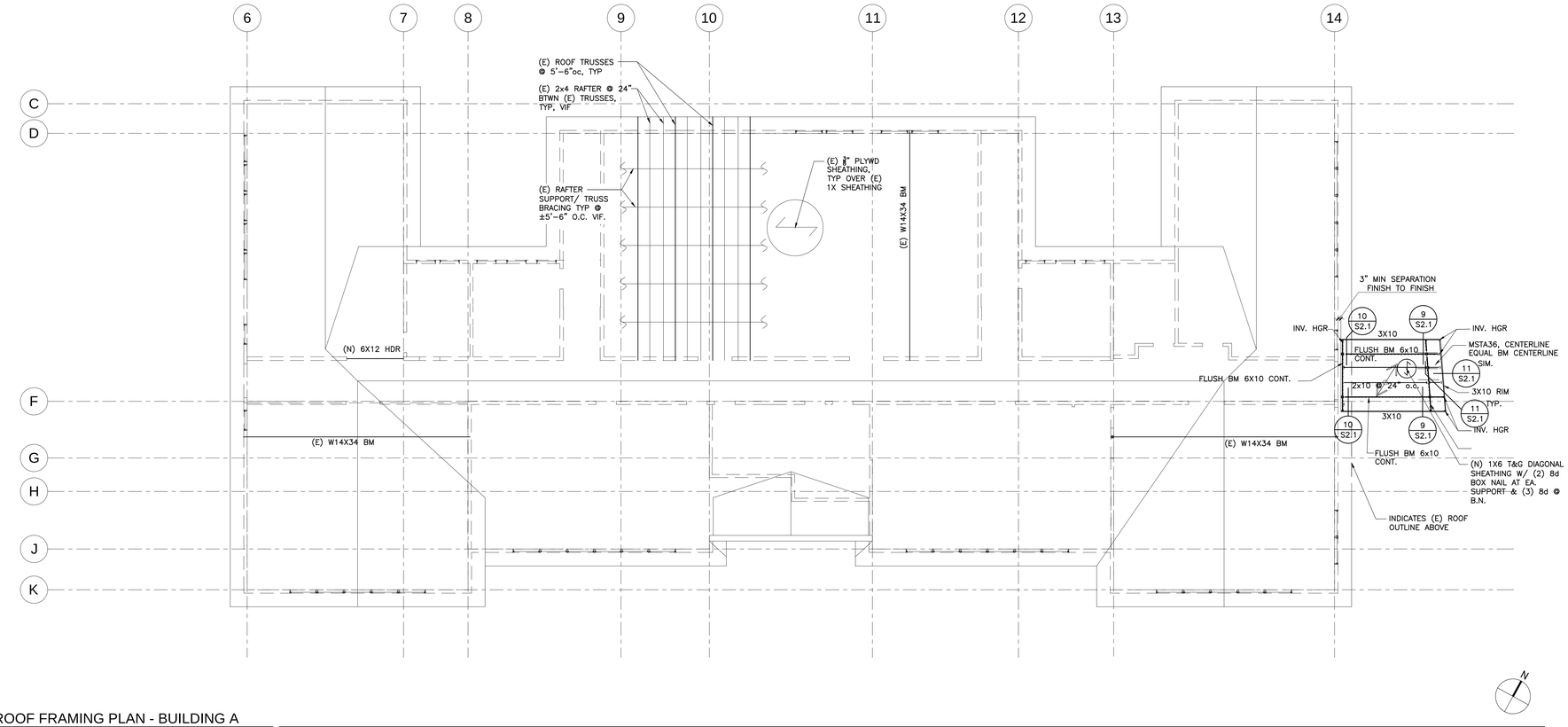
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S0.2

Sheet of

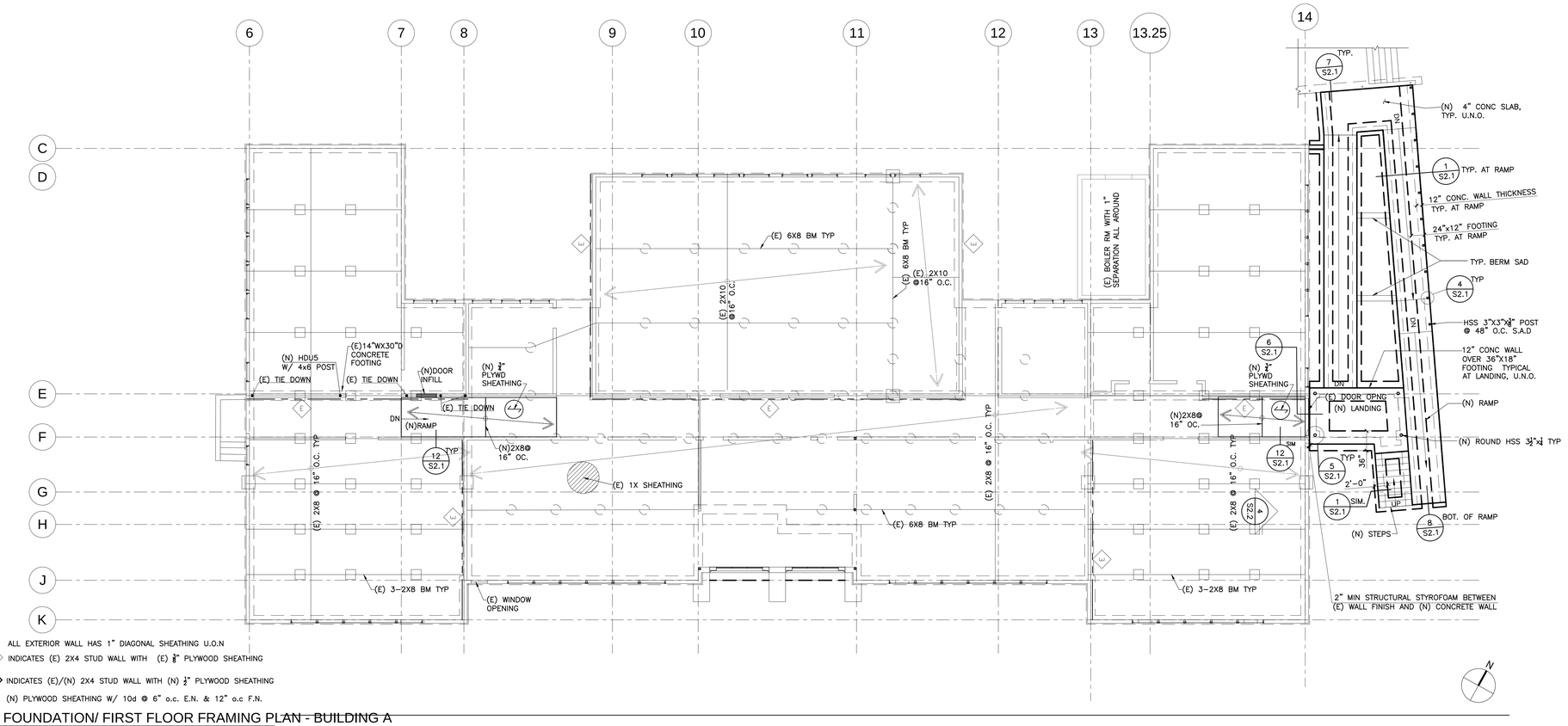
GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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28 ROOF FRAMING PLAN - BUILDING A

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



ALL EXTERIOR WALL HAS 1" DIAGONAL SHEATHING U.O.N

E INDICATES (E) 2X4 STUD WALL WITH (E) ⅜" PLYWOOD SHEATHING

6 INDICATES (E)/(N) 2X4 STUD WALL WITH (N) ½" PLYWOOD SHEATHING

(N) PLYWOOD SHEATHING W/ 10d @ 6" o.c. E.N. & 12" o.c F.N.

30 FOUNDATION/ FIRST FLOOR FRAMING PLAN - BUILDING A

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

GENERAL NOTES:

1. REFER TO SHEET S0.1, AND S0.2 FOR GENERAL NOTES AND TYPICAL DETAILS AS THEY ARE APPLICABLE AND SHALL BE FOLLOWED.
2. ALL DIMENSIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ENGINEER.
3. GC TO PROVIDE ADEQUATE SHORING TO EXISTING STRUCTURAL ELEMENTS PRIOR TO START OF DEMOLITION WORKS. GC TO REFER TO AS BUILT STRUCTURAL DRAWINGS AND FIELD VERIFY (E) EXISTING STRUCTURAL ELEMENTS.
4. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR VENT SIZE AND LOCATION. (N) OPENING SHALL BE THROUGH (E) ROOF SHEATHING. DO NOT CUT ANY ROOF FRAMING MEMBERS. PROVIDE FRAMING AROUND NEW OPENING PER 13/S2.1.

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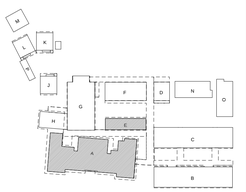
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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

FOUNDATION/FIRST FLOOR AND ROOF FRAMING PLAN BUILDINGS A

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: SG
Checked By:KY
Issue Date: 03/11/19

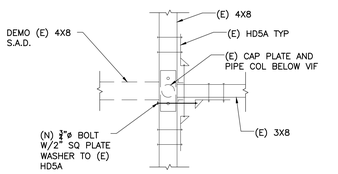
Sheet **S1.0**

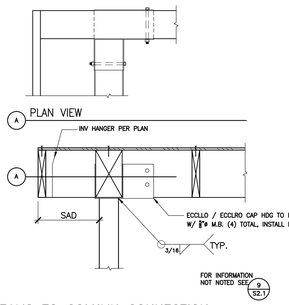
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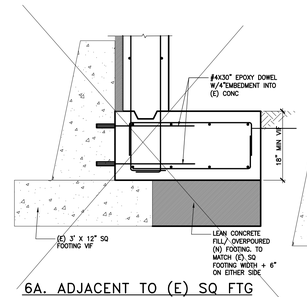
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REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION PLAN



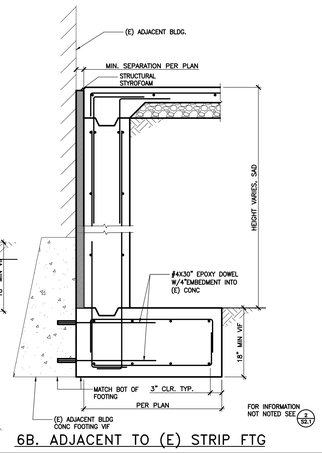


10 BEAMS TO COLUMN CONNECTION
SCALE: 3/4" = 1'-0"



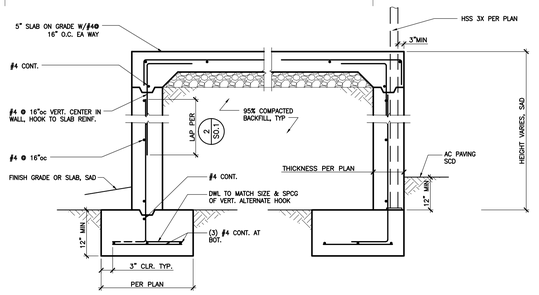
6A. ADJACENT TO (E) SQ FTG

REFER TO 6B FOR ADDITIONAL INFORMATION

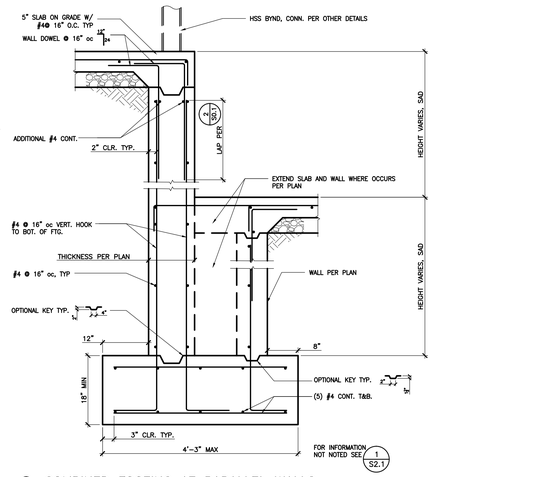


6B. ADJACENT TO (E) STRIP FTG

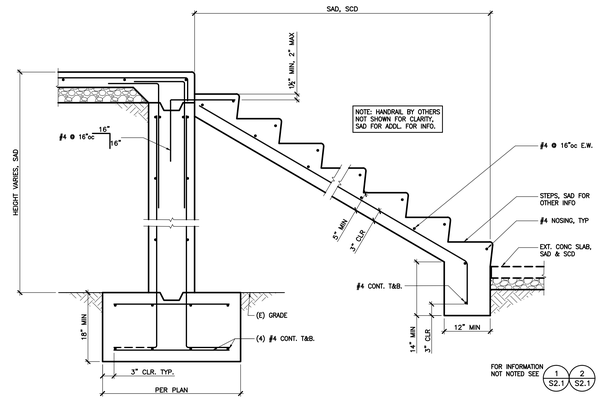
6 FOOTING AT ADJACENT BUILDING
SCALE: 3/4" = 1'-0"



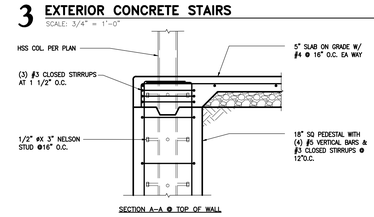
1 CONCRETE RAMP
SCALE: 3/4" = 1'-0"



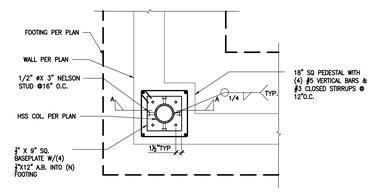
2 COMBINED FOOTING AT PARALLEL WALLS
SCALE: 3/4" = 1'-0"

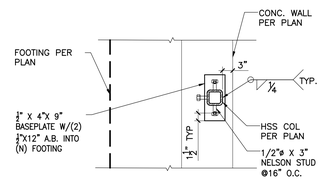


3 EXTERIOR CONCRETE STAIRS
SCALE: 3/4" = 1'-0"



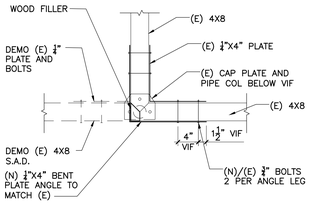
SECTION A-A @ TOP OF WALL



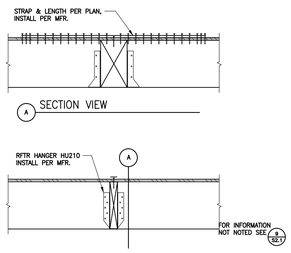


5 HSS STEEL COLUMN AT CONC. WALL
SCALE: 3/4" = 1'-0"

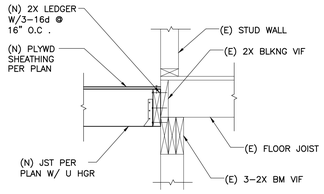
4 HSS STEEL COLUMN AT CONC. WALL
SCALE: 1" = 1'-0"



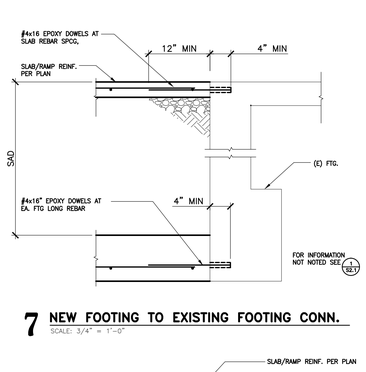
14 BEAM DEMO AT (E) WALKWAY
SCALE: 1" = 1'-0"



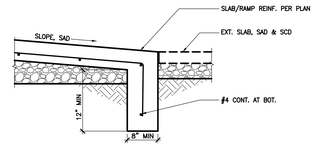
11 RAFTER TO BEAM CONNECTION
SCALE: 3/4" = 1'-0"



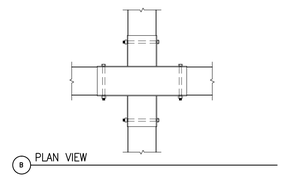
12 (N) RAMP AND FLOOR DETAIL
SCALE: 1" = 1'-0"

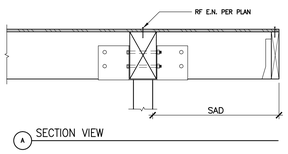


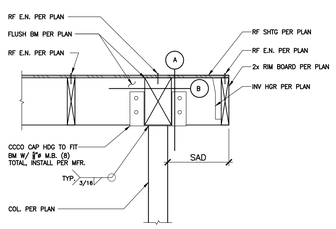
7 NEW FOOTING TO EXISTING FOOTING CONN.
SCALE: 3/4" = 1'-0"



8 BOTTOM OF SLOPE RAMP
SCALE: 3/4" = 1'-0"







9 BEAMS TO COLUMN CONNECTION
SCALE: 3/4" = 1'-0"

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

FOUNDATION AND FRAMING DETAILS

Client Project Number: Client Proj. #

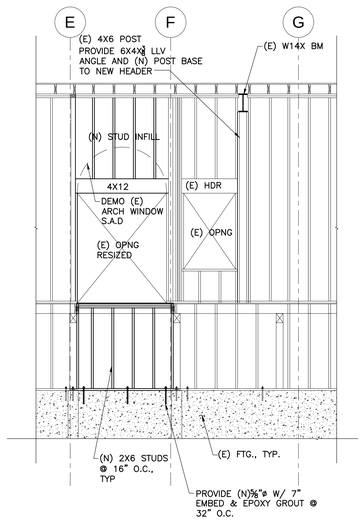
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Sheet **S2.1**

Sheet of

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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4 STRUCTURAL ELEVATION

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

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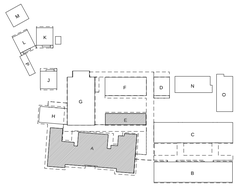
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Sheet Title

STRUCTURAL ELEVATION AND DETAILS

Client Project Number: Client Proj. #

Scale: As indicated
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Checked By:KY
Issue Date: 03/11/19

Sheet **S2.2**

Sheet of

0 5' 50' | 0 5' 25' | 0 1' 12' | 0 1' 6' | 0 4' | 0 1' 3' | 0 2' | 0 1'

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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HVAC SYMBOLS AND LEGEND

DUCT

- SUPPLY AIR DUCT
- RETURN AIR DUCT
- EXHAUST AIR DUCT
- DUCT ELBOW WITH DUAL THICKNESS TURNING VANES
- RADIUS DUCT ELBOW
- SUPPLY AIR TERMINAL
- RETURN AIR TERMINAL
- EXHAUST AIR TERMINAL
- 24"x16" 16"ø — RECTANGULAR TO ROUND TRANSITION
- 20"x12" EA (L) — DUCT WITH LINING (DIMENSIONS ARE I.D.)
- MOTORIZED DAMPERS (OPPOSED AND PARALLEL BLADE)
- BALANCING DAMPER
- FIRE SMOKE DAMPER

MISC.

- T (Freq) — THERMOSTAT
- T — TEMPERATURE SENSOR
- CO2 — CO2 SENSOR
- POINT OF CONNECTION
- POINT OF DISCONNECTION
- REVISION CLOUD AND DELTA
- CH / 1 — EQUIPMENT TYPE / EQUIPMENT NUMBER
- DIFFUSER GRILLE TAG: EQUIPMENT TYPE; NECK SIZE (RECT.); A-24x24-120 — CFM; A-12ø-120 — CFM; NECK SIZE (ROUND); EQUIPMENT TYPE
- 1 / M6.02 — DETAIL DESIGNATION / SHEET NUMBER
- RETURN AIR FLOW DIRECTION

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1. ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.

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ABBREVIATIONS

ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTIC LINING
ARCH	ARCHITECT/ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AW	ACID WASTE
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STEEL
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CBC	CALIFORNIA BUILDING CODE
CH	CHILLER
CI	CAST IRON
CT	COOLING TOWER
CU	COPPER
CL	CENTERLINE
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUATION
CW	COLD WATER
DB	DRY BULB
DH	DEHUMIDIFIER
DIM	DIMENSION
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
(E)	EXISTING
(ER)	EXISTING TO BE RELOCATED
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRICAL
ET	EXPANSION TANK
EW	EMERGENCY EYEWASH
EXH	EXHAUST
(F)	FUTURE
FCU	FAN COIL UNIT
FFE	FINISHED FLOOR ELEVATION
FLR	FLOOR
FM	FLOW METER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPM	FEET PER MINUTE
FS	FLOW SWITCH
FT	FEET
GPM	GALLONS PER MINUTE
GR	GRADE
HC	HEATING COIL
HORIZ	HORIZONTAL
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HX	HEAT EXCHANGER
I	POUNDS PER SQUARE INCH
ID	NSIDE DIAMETER
IN.	INCHES
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
LB	POUND WEIGHT
LAV	LAVATORY
MAX	MAXIMUM
MFR	MANUFACTURER
MIN	MINIMUM
(N)	NEW
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NG	NATURAL GAS
NO	NORMALLY OPEN
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OSA	OUTSIDE AIR
P	PUMP
PNG	OPENING
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE / PRESSURE
PSI	POUNDS PER SQUARE INCH
PSIA	PSI - ABSOLUTE
PSIG	PSI - GAUGE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
(R)	REMOVE
RA	RETURN AIR
RAH	RECIRC AIR HANDLER
RC	REHEAT COIL
RD	ROOF DRAIN
REF	ROOF EXHAUST FAN
SA	SUPPLY AIR / SOUND ATTENUATOR
SC	SCRUBBER
SCFM	STANDARD CUBIC FEET PER MINUTE
SCHD	SCHEDULE
SD	SMOKE DETECTOR
SFD	COMBINATION FIRE SMOKE DAMPER WITH ACCESS DOOR
SIM	SIMILAR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SMEF	SMOKE EXHAUST FAN
SPEC(S)	SPECIFICATION(S)
SS	STAINLESS STEEL
ST	SOUND ATTENUATOR TRAP
STD(S)	STANDARD(S)
TA	TRANSFER AIR
TE	TEMPERATURE ELEMENT
TEMP	TEMPERATURE
TI	TEMPERATURE INDICATOR
TOS	TOP OF STEEL
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VOLTS
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAK
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
VVR	VARIABLE VOLUME UNIT WITH REHEAT
W	WIDTH
W/O	WITHOUT
WB	WET BULB
WC	WATER CLOSET
WH	WATER HEATER
WLD	WELDED
WT	WEIGHT

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 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 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 THE ATTACHMENT 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 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 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 SYSTEM BRACING NOTE

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 THE OSHPD PRE-APPROVAL OPM# 0043-13

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 SYSTEM.

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

GENERAL NOTES

1. ALL REQUIREMENTS IN THE BOOK OF SPECIFICATIONS ARE PART OF THIS CONTRACT. REFER TO THE SPECIFICATIONS FOR INFORMATION NOT SHOWN ON THE DRAWINGS.
2. ALL WORK SHALL BE IN FULL ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES, LAWS AND REGULATIONS. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST TITLE 24 CALIFORNIA CODE OF REGULATIONS, INCLUDING BUT NOT LIMITED TO: CALIFORNIA BUILDING CODE (PART 2). CALIFORNIA ELECTRICAL CODE (PART 3), CALIFORNIA MECHANICAL CODE (PART 4), CALIFORNIA PLUMBING CODE (PART 5), CALIFORNIA ENERGY CODE (PART 6), CALIFORNIA FIRE CODE (PART 9).
3. ALL WORK SHALL BE IN FULL ACCORDANCE WITH THE FOLLOWING CODES, REGULATIONS AND STANDARDS: STATE FIRE MARSHAL REGULATIONS; THE SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY; THE NATIONAL ELECTRIC CODE (NEC); THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA); AMERICAN GAS ASSOCIATION (AGA); OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA); AMERICAN SOCIETY OF HEATING,REFRIGERATION AND AIR-CONDITIONING ENGINEERS (ASHRAE); AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI); AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME); SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA); AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM); INSTALLATION STANDARDS PUBLISHED BY THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS (IAPMO) AND OTHER APPLICABLE LAWS, CODES OR REGULATIONS. NOTHING IN THESE PERFORMANCE SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES, REGULATIONS AND STANDARDS.
4. ALL MECHANICAL EQUIPMENT, FIXED OR FLEXIBLY MOUNTED, SHALL BE BRACED OR ANCHORED TO COMPLY WITH THE REQUIREMENTS OF TITLE 24.
5. CONTRACTORS SHALL VISIT SITE AND BE FULLY AWARE OF ALL CONDITIONS PRIOR TO SUBMITTING PROPOSAL.
6. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED FEES, PERMITS AND INSPECTIONS.
7. COORDINATE ALL WORK WITH THE ARCHITECTURAL, STRUCTURAL DRAWINGS AND DRAWINGS OF OTHER TRADES. INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL WORK, STRUCTURAL MEMBERS AND WORK OF OTHER TRADES. NO ITEM SUCH AS PIPE, DUCT, ETC., SHALL BE IN CONTACT WITH ANY EQUIPMENT. ANY ERRORS, OMISSIONS, DISCREPANCIES, DEFICIENCIES, OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR, THE ARCHITECT AND THE ENGINEER PRIOR TO PROCEEDING WITH ANY AFFECTED WORK.
8. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT.
9. COORDINATE ALL CUTTING AND PATCHING WITH THE GENERAL CONTRACTOR. SUB CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. OBTAIN WRITTEN PERMISSION FROM THE ARCHITECT BEFORE PROCEEDING WITH ANY CUTTING OR ALTERATION OF STRUCTURAL MEMBERS.
10. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO ENSURE THE INSTALLATION OF COMPLETE AND FULLY FUNCTIONING SYSTEMS.
11. GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR FROM THE DATE OF FILING NOTICE OF COMPLETION.
12. RESTORE ALL DAMAGE RESULTING FROM YOUR WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK.
13. CONNECT ALL EQUIPMENT FURNISHED UNDER OTHER TRADES AS SHOWN OR AS REQUIRED.
14. NOTIFY OWNER 48 HOURS IN ADVANCE BEFORE ANY SYSTEM SHUTDOWN. COORDINATE ALL SHUTDOWNS WITH THE BUILDING ENGINEER.
15. PROVIDE TWO SETS OF "AS-BUILT" FULL SIZE DRAWINGS AND TWO BOUND SETS OF ALL OPERATION MANUALS, DIAGRAMS, SERVICE CONTRACTS, GUARANTEES, ETC., ONE SET SHALL BE DELIVERED TO THE OWNER AND ONE SET TO THE BUILDING OPERATIONS DEPARTMENT.
16. PROVIDE AND COORDINATE WITH THE ARCHITECT THE INSTALLATION OF ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND INSPECTION OF ALL EQUIPMENT AND DEVICES. MINIMIZE NUMBER & LOCATION OF ACCESS PANELS BY POSITIONING PANELS TO ALLOW ACCESS TO MULTIPLE DEVICES. MECHANICAL LAYOUT SHALL ALSO BE DONE TO MINIMIZE ACCESS PANELS.
17. OBTAIN A COMPLETE SET OF AS-BUILT DRAWINGS OF EXISTING CONDITIONS FROM THE OWNERS FOR INFORMATION OF EXISTING CONDITIONS.
18. SUBMIT FOR APPROVAL AN ELECTRONIC SET OF MANUFACTURERS' SUBMITTAL DATA ON ALL MATERIALS, EQUIPMENT, AND DEVICES.
19. EACH SYSTEM OF PIPING AND DUCTWORK SHALL BE CLEANED OF ALL FOREIGN MATERIAL AND BURRS AND ROUGH SPOTS PRIOR TO BEING PLACED IN SERVICE AND BEFORE OPERATIONAL TESTS ARE PERFORMED.
20. EACH SYSTEM OF PIPING AND DUCTWORK SHALL BE PRESSURE TESTED IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS.
21. GENERAL CONTRACTOR SHALL RETAIN INDEPENDENT TESTING AGENCY FOR TESTING AND BALANCING AIR AND HYDRONIC SYSTEMS. BALANCE AIR FLOW AT ALL OPENINGS TO AIR QUANTITIES INDICATED. BALANCE WATER FLOW AT ALL EQUIPMENT TO GPM INDICATED. AGENCY SHALL BE MEMBER OF AABC. SUBMIT FINAL BALANCE REPORT FOR REVIEW.
22. DURING ENTIRE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL MAINTAIN ADEQUATE FIRE EXTINGUISHERS AT THE SITE, RELAY FOR USE IN CASE OF FIRE.
23. CONTRACTOR SHALL PROTECT THE PUBLIC FROM INJURY DURING THE PROCESS OF WORK BY POSTING WARNING SIGNS AND INSTALLING GUARD LIGHTS AND BARRICADES.
24. ALL DUCTS, PIPES AND EQUIPMENT SHALL BE CONCEALED ABOVE CEILING, UNLESS OTHERWISE NOTED.
25. MAXIMUM ALLOWABLE LENGTH OF FLEXIBLE DUCT: 7'-0".
26. SEAL AROUND ALL PIPES AND DUCTS PENETRATING FIRE SEPARATIONS WITH NON-COMBUSTIBLE PACKING RETAINED BY METAL COLLARS. THE ASSEMBLY SHALL BE APPROVED BY STATE FIRE MARSHAL.
27. ALL DUCTS PASSING THRU FIRE WALLS SHALL HAVE DAMPERS THAT COMPLY WITH THE UL STANDARDS 555 AND 555S STATE FIRE MARSHAL.
28. PROVIDE REMOTE EXTENDED LUBRICATING FITTINGS FOR ALL SYSTEMS SO THAT LUBRICATION CAN BE ACCOMPLISHED WITHOUT OPENING PLENUM DOORS OR EQUIPMENT ACCESS PANELS.
29. HANG RIBBONS FROM ALL ITEMS REQUIRING ACCESS (EXISTING IN THE AREA OF CONSTRUCTION AND NEW) PRIOR TO INSTALLATION OF CEILING.
30. INSTALL ALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE ABOVE FINISHED FLOOR. PROVIDE AND INSTALL ALL NECESSARY OFFSETS TO MAINTAIN MINIMUM 7" CLEARANCE ABOVE FINISHED CEILING WHERE POSSIBLE.
31. SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE MECHANICAL ENGINEER PRIOR TO CONSTRUCTION.
32. EXISTING DUCT OR PIPE SUPPORTS SHALL NOT BE REUSED WITHOUT THE APPROVAL OF STRUCTURAL ENGINEER.
33. ALL PIPE ELEVATIONS ARE BOP (BOTTOM OF PIPE) UNLESS NOTED OTHERWISE.
34. WHERE PIPES AND DUCTS PENETRATE WALL, SEAL OPENINGS TO PREVENT AIR TRANSFER BETWEEN SPACES. USE FIRE RATED SEALANTS ON ALL FIRE SEPARATION PENETRATIONS, INCLUDING FLOORS.
35. ALL SUPPORTS, SPACE ARRANGEMENTS, EQUIPMENT FOOTPRINTS, AND EQUIPMENT PADS ARE BASED ON PRELIMINARY INFORMATION FROM THE MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING DATA FROM CERTIFIED DRAWINGS SUBMITTED AND SHALL MAKE MODIFICATIONS REQUIRED.
36. ALL DUCT DIMENSIONS ARE SHOWN IN INCHES.
37. REFER TO SPECIFICATIONS FOR DUCT LEAKAGE REQUIREMENTS.
38. THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT WERE PREPARED BY THE DESIGN TEAM USING 3-D MODELING SOFTWARE. USING THIS SOFTWARE BY THE DESIGN TEAM DOES NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE NECESSARY COORDINATION TO PROVIDE COMPLETE, CODE COMPLIANT AND OPERATIONAL BUILDING SYSTEMS. THE PLANS AND SECTIONS PROVIDED ARE NOT COMPLETE AND ARE TO BE CONSIDERED DIAGRAMMATIC ONLY. THE EXACT LOCATION OF THE PIPING, DUCTWORK, ELECTRICAL AND SUPPORT COMPONENTS ARE TO BE DETERMINED IN THE FIELD. ALL BUILDING SECTIONS AND DETAILS PROVIDED ARE FOR INFORMATION ONLY AND DO NOT RELIEVE THE CONTRACTOR FROM PERFORMING FINAL COORDINATION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES.

DRAWING LIST

SHEET NUMBER	SHEET NAME
M0.01	LEGEND, ABBREVIATIONS, AND GENERAL NOTES - MECHANICAL
M0.02	SCHEDULES - MECHANICAL
M2D.01	DEMOLITION FLOOR PLANS – BLDGS A & E - MECHANICAL
M2D.02	DEMOLITION FLOOR PLANS – BLDGS B, C, D & F - MECHANICAL
M2.01	OVERALL FLOOR PLANS – BLDGS A & E - MECHANICAL
M2.02	OVERALL FLOOR PLANS – BLDGS B, C, D & F - MECHANICAL
M2.03	ROOF PLANS - BLDGS A, B, & E - MECHANICAL
M6.01	CONTROLS - MECHANICAL
M7.01	DETAILS - MECHANICAL
M7.02	DETAILS - MECHANICAL
M8.01	TITLE 24

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Revisions

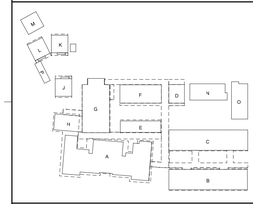
No.	Revisions	By	Date	Appr.

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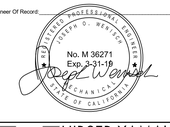
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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

LEGEND, ABBREVIATIONS, AND GENERAL NOTES - MECHANICAL

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: Integral Group
Checked By: Integral Group
Issue Date: 03/11/19
Revit Version: 2017

Sheet **M0.01**

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

MECHANICAL - FURNACE SCHEDULE - PHASE 2

TYPE	EQUIPMENT NUMBER	MFR.	MODEL	SERVICE	FAN				MOTOR		FILTER		GAS HEAT		ELECTRICAL			DIMENSIONS (IN.)			OPER. WEIGHT (LBS)	NOTES
					MIN OA CFM	MAX CFM	ESP (IN W.G.)	RPM	DRIVE	HP	TYPE	THICKNESS	OUTPUT MBH	AFUE	VOLTAGE	HZ	PHASE	L	W	H		
F	12	CARRIER	59TP6A080E17-16	B1	465 CFM	1385 CFM	0.50"	600-1200	ECM	0.8 hp	MERV-13	4"	78,000 Btu/h	95%	120 V	60 Hz	1	30"	18"	35"	155	1-5
F	13	CARRIER	59TP6A060E14-12	B2	360 CFM	1110 CFM	0.50"	600-1200	ECM	0.5 hp	MERV-13	4"	58,000 Btu/h	95%	120 V	60 Hz	1	28"	14"	35"	130	1-5
F	14	CARRIER	59TP6A060E14-12	B3	350 CFM	1110 CFM	0.50"	600-1200	ECM	0.5 hp	MERV-13	4"	58,000 Btu/h	95%	120 V	60 Hz	1	30"	14"	35"	130	1-5
F	15	CARRIER	59TP6A060E14-12	B4	355 CFM	1110 CFM	0.50"	600-1200	ECM	0.5 hp	MERV-13	4"	58,000 Btu/h	95%	120 V	60 Hz	1	30"	14"	35"	130	1-5
F	16	CARRIER	59TP6A060E14-12	C1	350 CFM	1110 CFM	0.50"	600-1200	ECM	0.5 hp	MERV-13	4"	58,000 Btu/h	95%	120 V	60 Hz	1	30"	14"	35"	130	1-5
F	17	CARRIER	59TP6A060E14-12	C2	350 CFM	1110 CFM	0.50"	600-1200	ECM	0.5 hp	MERV-13	4"	58,000 Btu/h	95%	120 V	60 Hz	1	30"	14"	35"	130	1-5
F	18	CARRIER	59TP6A060E14-12	C3	390 CFM	1110 CFM	0.50"	600-1200	ECM	0.5 hp	MERV-13	4"	58,000 Btu/h	95%	120 V	60 Hz	1	30"	14"	35"	130	1-5
F	19	CARRIER	59TP6A060E14-12	C4	360 CFM	1110 CFM	0.50"	600-1200	ECM	0.5 hp	MERV-13	4"	58,000 Btu/h	95%	120 V	60 Hz	1	30"	14"	35"	130	1-5
F	20	CARRIER	59TP6A060E14-12	D1	335 CFM	1110 CFM	0.50"	600-1200	ECM	0.5 hp	MERV-13	4"	58,000 Btu/h	95%	120 V	60 Hz	1	30"	14"	35"	130	1-5
F	21	CARRIER	59TP6A060E14-12	F1	340 CFM	1110 CFM	0.50"	600-1200	ECM	0.5 hp	MERV-13	4"	58,000 Btu/h	95%	120 V	60 Hz	1	30"	14"	35"	130	1-5
F	22	CARRIER	59TP6A060E14-12	F2	340 CFM	1110 CFM	0.50"	600-1200	ECM	0.5 hp	MERV-13	4"	58,000 Btu/h	95%	120 V	60 Hz	1	30"	14"	35"	130	1-5

NOTES:
1. PROVIDE NEW THERMOSTAT CONTROLLER. REFER TO SYSTEM CONTROL DETAIL.
2. PROVIDE WITH MANUFACTURER CONDENSATE NEUTRALIZER KIT.
3. PROVIDE MIXING BOX. REFER TO DETAIL M7.01/4
4. PROVIDE ECM MOTOR.
5. PROVIDE WITH CONCENTRIC VENT KIT.

MECHANICAL - EXHAUST FAN SCHEDULE

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	SERVICE	TYPE	FAN					MOTOR		ELECTRICAL			OPERATING WEIGHT	NOTES
						AIR FLOW	TSP	SPEED [RPM]	MIN. STATIC EFFICIENCY [%]	SOUND [dBA]	HP	BHP	VOLT	PH	HZ		
EF	2	GREENHECK	SQ-80-VG	STAFF RR E02 & E03	INLINE	140 CFM	0.3 in-wg	1093	29	38	0.10 hp	0.020 hp	120 V	1	60 Hz	50.00 lbf	1
EF	3	GREENHECK	SQ-65-VG	STUDENT TOLIET B06, B07	INLINE	70 CFM	0.3 in-wg	1348	16	42	0.10 hp	0.020 hp	120 V	1	60 Hz	35.00 lbf	1

NOTES:
1. PROVIDE WITH FACTORY INSULATED HOUSING.

MECHANICAL - AIR TERMINAL SCHEDULE

TYPE	MANUFACTURER	MODEL	TYPE	SIZE	NOTES
A	TITUS	112RL	DUCT/SIDEWALL SUPPLY	SEE FLOOR PLANS	1
D	TITUS	350F	SIDEWALL EXHAUST	SEE FLOOR PLANS	1
E	TITUS	350F	SIDEWALL RETURN	SEE FLOOR PLANS	1

NOTES:
1. FACE AND FINISH PER ARCHITECT.

MECHANICAL - ELECTRIC HEATER SCHEDULE

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	SERVICE	HEATING CAPACITY	ELECTRICAL				WALL OPENING DIMENSIONS			OPERATING WEIGHT	NOTES
						POWER	VOLT	PHASE	FREQUENCY	LENGTH	WIDTH	HEIGHT		
EH	1	DAYTON	5ZK68E	STAFF TOILET E02	5120 Btu/h	1500 W	120 V	1	60 Hz	0' - 2 1/2"	0' - 9 1/4"	1' - 0 1/2"	10.00 lb	1
EH	2	DAYTON	5ZK68E	STAFF TOILET E03	5120 Btu/h	1500 W	120 V	1	60 Hz	0' - 2 1/2"	0' - 9 1/4"	1' - 0 1/2"	10.00 lb	1

NOTES:
1. (E) ELECTRICAL WALL HEATERS TO BE REPLACED IN KIND.

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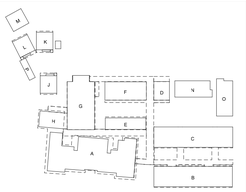
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HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

SCHEDULES - MECHANICAL

Client Project Number: Client Proj. #

Scale:
Drawn By: Integral Group
Checked By: Integral Group
Issue Date: 03/11/19
Revit Version: 2017

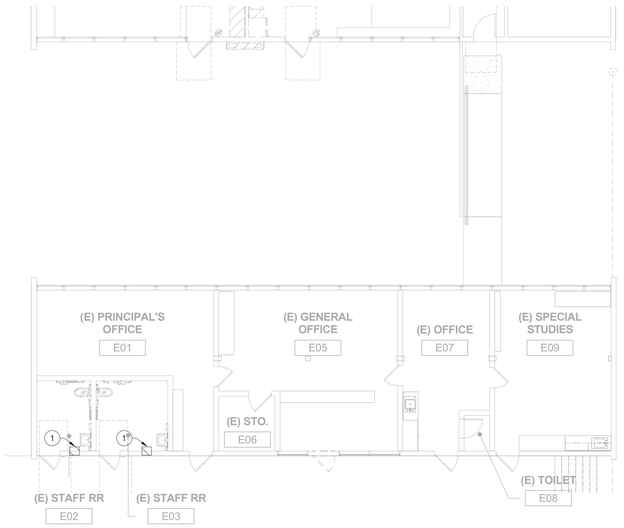
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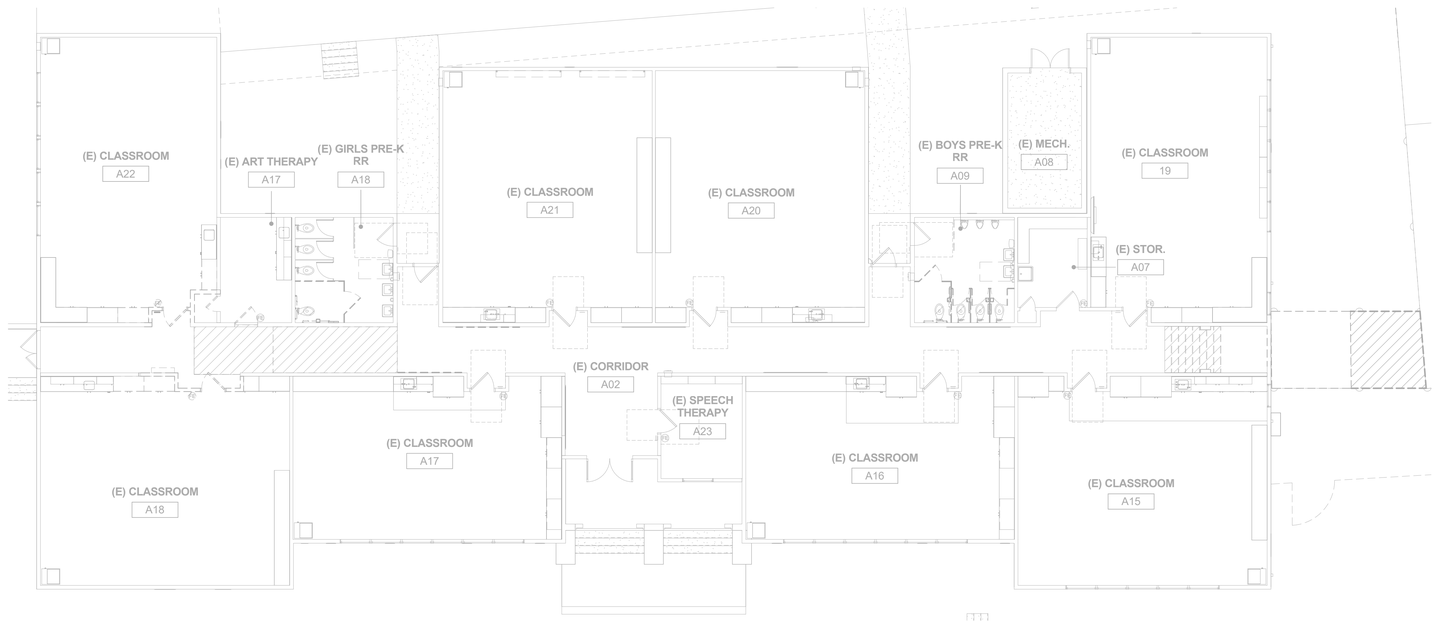
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2 DEMOLITION FLOOR PLAN - BUILDING E - MECHANICAL

1/8" = 1'-0"



1 DEMOLITION FLOOR PLAN - BUILDING A - MECHANICAL

1/8" = 1'-0"

DEMOLITION GENERAL NOTES

A. THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

B. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

C. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

D. ALL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

(#) SHEET NOTES

1. DEMO EXISTING ELECTRIC HEATERS. TO BE REPLACED IN-KIND.

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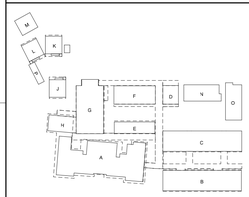
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HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

DEMOLITION FLOOR PLANS – BLDGS A & E - MECHANICAL

Client Project Number: Client Proj. #

Scale: As indicated
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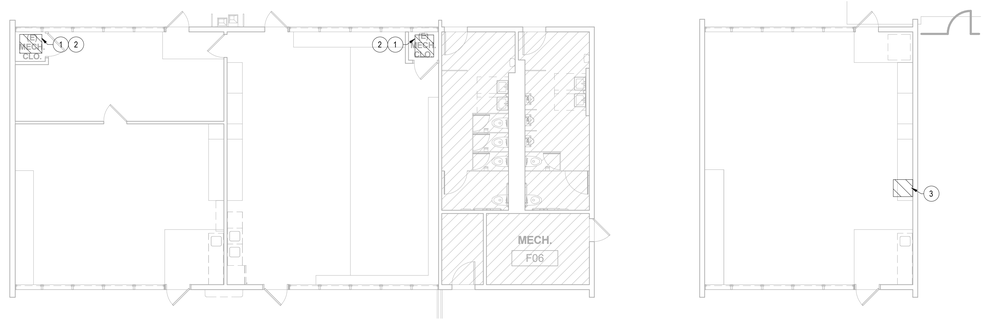
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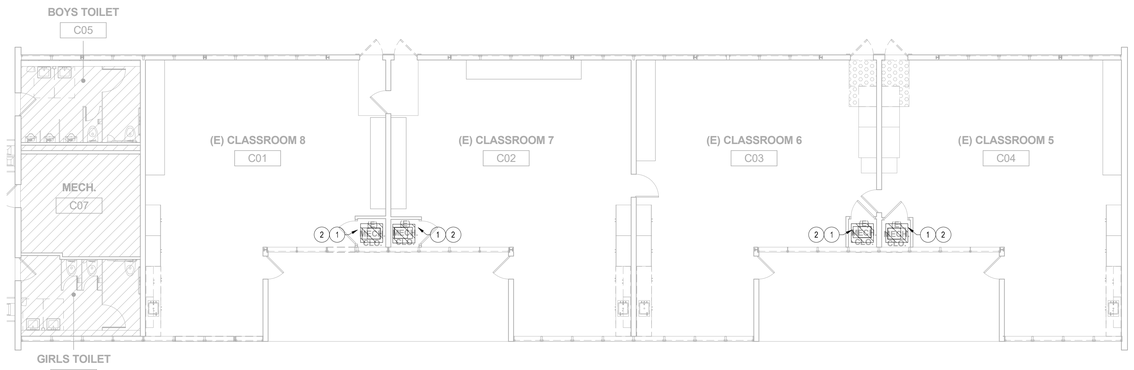
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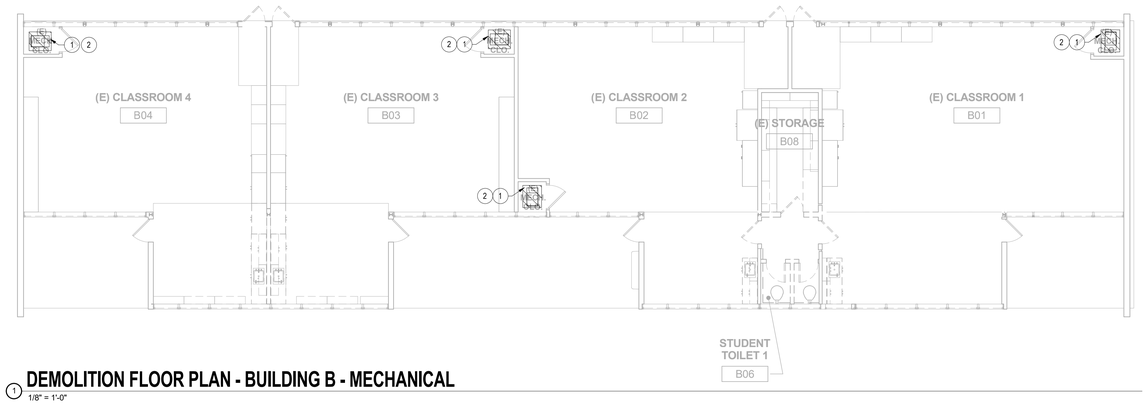
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3 DEMOLITION FLOOR PLAN - BUILDINGS D & F - MECHANICAL
1/8" = 1'-0"



2 DEMOLITION FLOOR PLAN - BUILDING C - MECHANICAL
1/8" = 1'-0"



1 DEMOLITION FLOOR PLAN - BUILDING B - MECHANICAL
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(#) SHEET NOTES

1. REMOVE EXISTING FURNACE, ASSOCIATED CONTROLS AND FLUE. REMOVE EXISTING DUCTWORK, PLENUMS, AND REGISTERS.
2. DISCONNECT GAS FROM FURNACE TO BE REMOVED. RECONNECT GAS TO FURNACES W/ GAS SOV. MODIFY EXISTING GAS PIPING AS REQUIRED FOR REMOVAL OF EXISTING FURNACE AND INSTALLATION OF NEW FURNACE.
3. REMOVE (E) WESIX HEATER AND ASSOCIATED WIRING AND CONTROLS.

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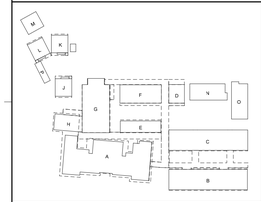
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HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

DEMOLITION FLOOR PLANS – BLDGS B, C, D & F - MECHANICAL

Client Project Number: Client Proj. #

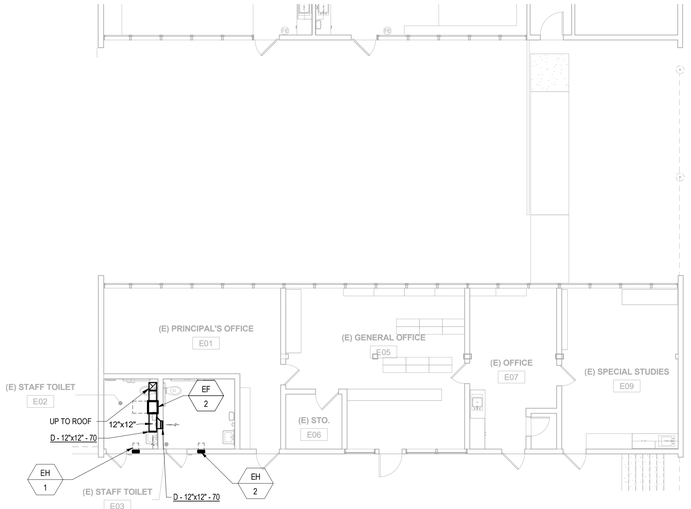
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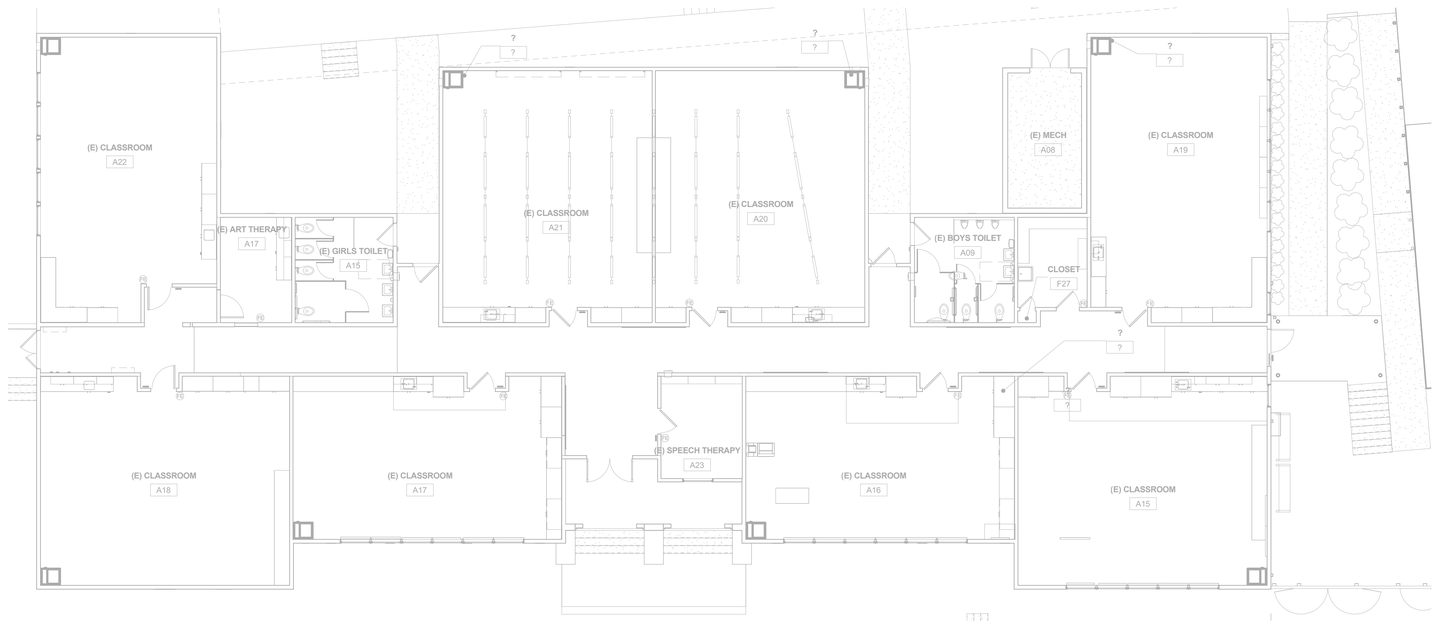
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FLOOR PLAN - BUILDING E - MECHANICAL

2 1/8" = 1'-0"



FLOOR PLAN - BUILDING A - MECHANICAL

1 1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS.

B. SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

C. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

D. SEE M0.2 FOR EQUIPMENT INFORMATION. SEE DETAILS FOR ADDITIONAL INFORMATION ON WIRING, LAYOUT AND CONNECTIONS.

E. USE KNAUF 1" LINING FOR SOUND ATTENUATION FOR SHEET METAL DUCTING. LENGTH TO BE MIN 10 FT OR TO FIRST DIFFUSER IF FARTHER.

F. ALL NEW WALL MOUNTED DUCTWORK TO BE MOUNTED WITH EXPOSED WALL MOUNT BRACKET DETAIL 10/MT.01 UNLESS OTHERWISE NOTED.

SHEET NOTES

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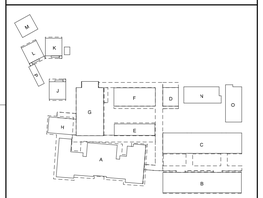
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HY Architects Project number: Project Number

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35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

OVERALL FLOOR PLANS – BLDGS A & E - MECHANICAL

Client Project Number: Client Proj. #

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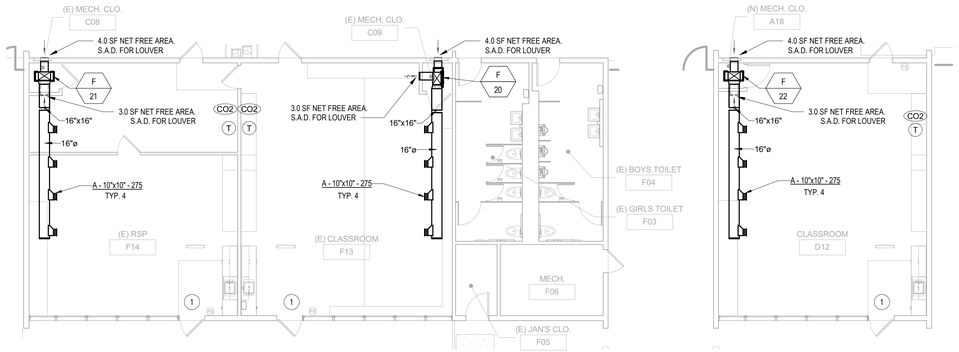
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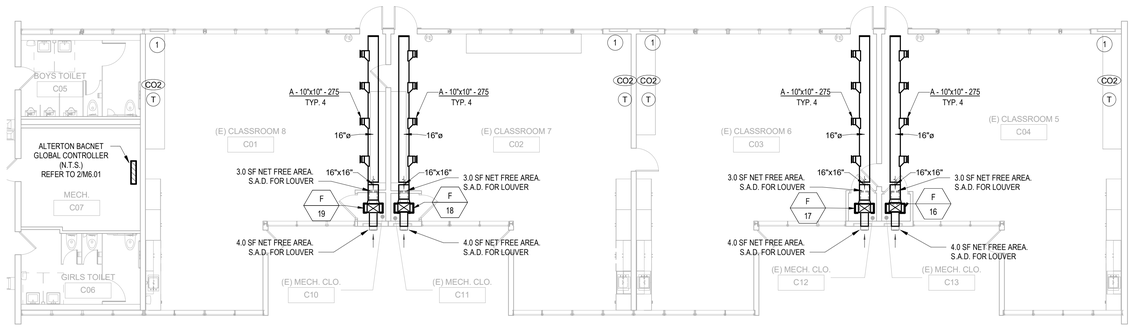
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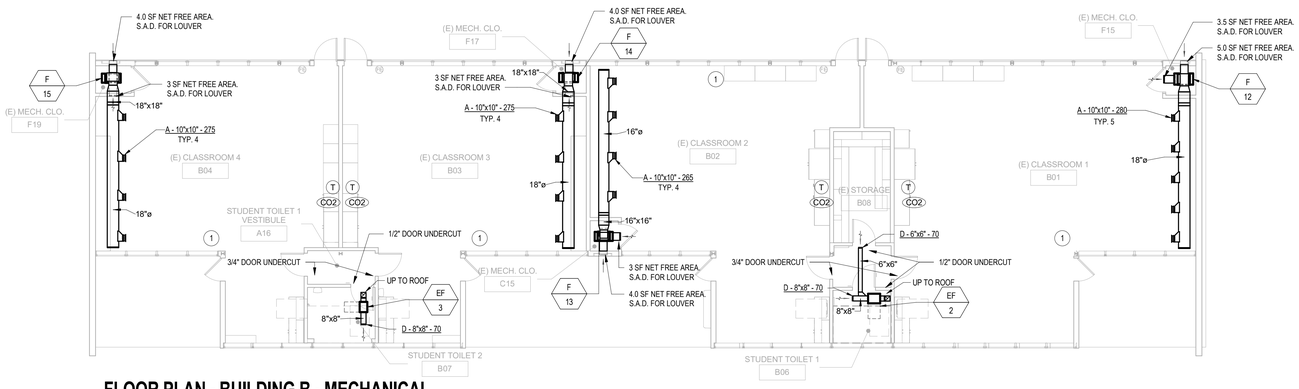
3 FLOOR PLAN - BUILDINGS D & F - MECHANICAL

1/8" = 1'-0"



2 FLOOR PLAN - BUILDING C - MECHANICAL

1/8" = 1'-0"



1 FLOOR PLAN - BUILDING B - MECHANICAL

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GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS.

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E. USE KNAUF 1" LINING FOR SOUND ATTENUATION FOR SHEET METAL DUCTING. LENGTH TO BE MIN 10 FT OR TO FIRST DIFFUSER IF FARTHER.

F. ALL NEW WALL MOUNTED DUCTWORK TO BE MOUNTED WITH EXPOSED WALL MOUNT BRACKET DETAIL 10/M7.01 UNLESS OTHERWISE NOTED.

(#) SHEET NOTES

1. INSTALL BAROMETRIC RELIEF LOUVRE WITH ARCH. LOUVRE. S.A.D. FOR LOUVER LOCATIONS. RELIEF LOUVRES TO BE SIZED FOR FULL ECONOMIZER MODE CFM. REFER TO 9/M7.02.

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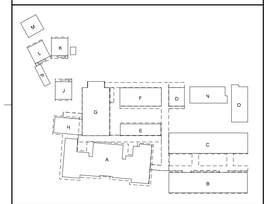
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Facility

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35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

OVERALL FLOOR PLANS – BLDGS B, C, D & F - MECHANICAL

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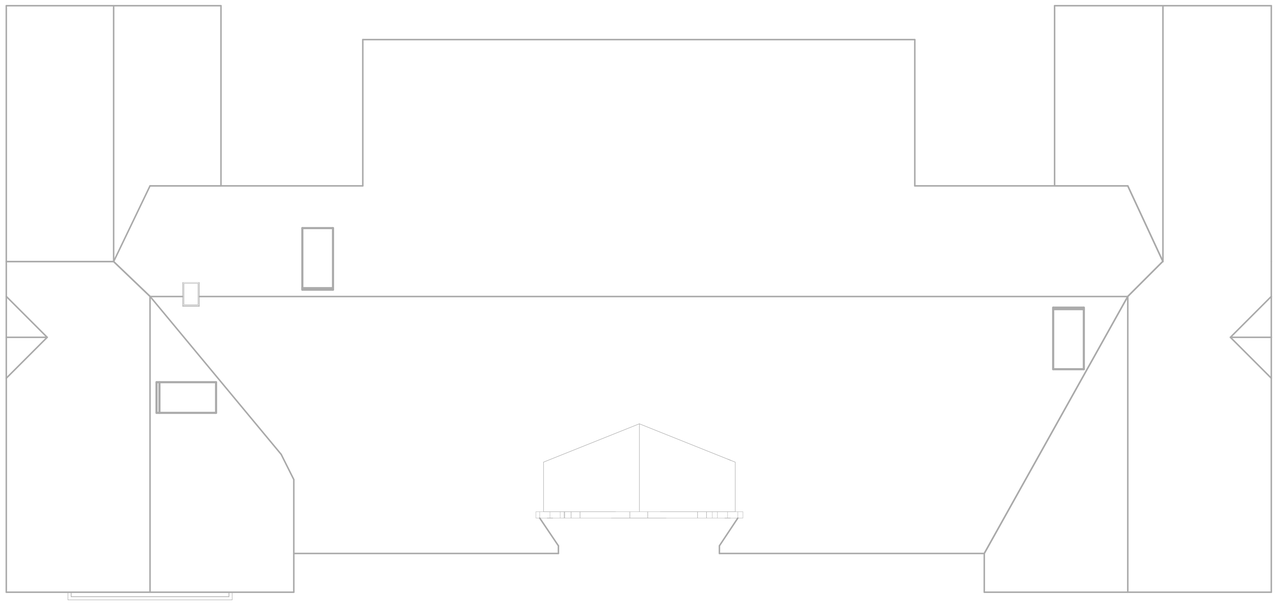
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ROOF PLAN - BUILDING E - MECHANICAL
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3 1/8" = 1'-0"



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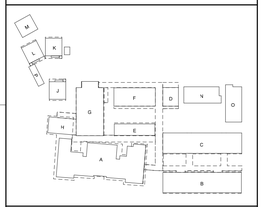
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ROOF PLANS - BLDGS A, B, & E - MECHANICAL

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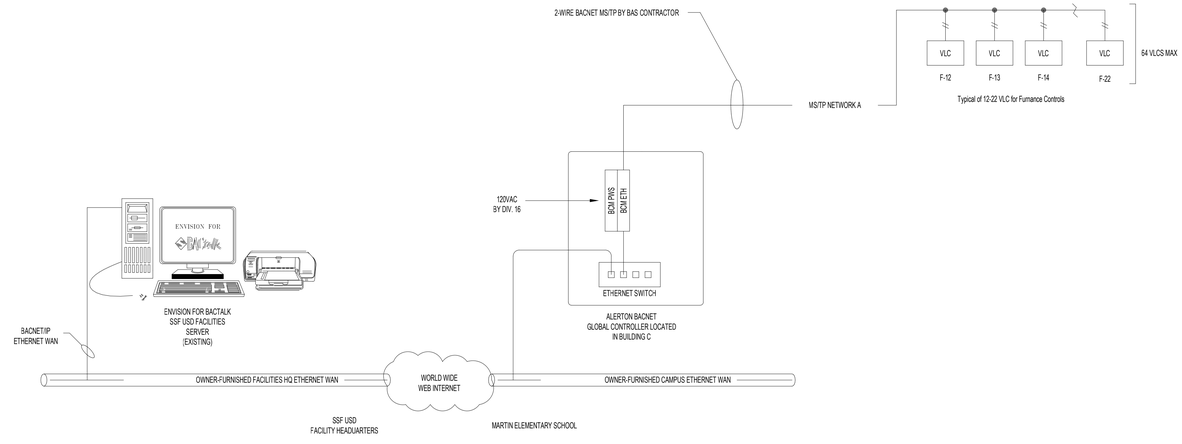
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Revit Version: 2017

Sheet **M2.03**

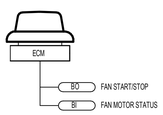
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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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2 ALERTON BAS SYSTEM
N.T.S



SEQUENCE OF OPERATION: SCHEDULED EXHAUST FAN
ALL SUGGESTED SETPOINTS AND SETTINGS SHALL BE USER ADJUSTABLE IN BAS GRAPHICS.

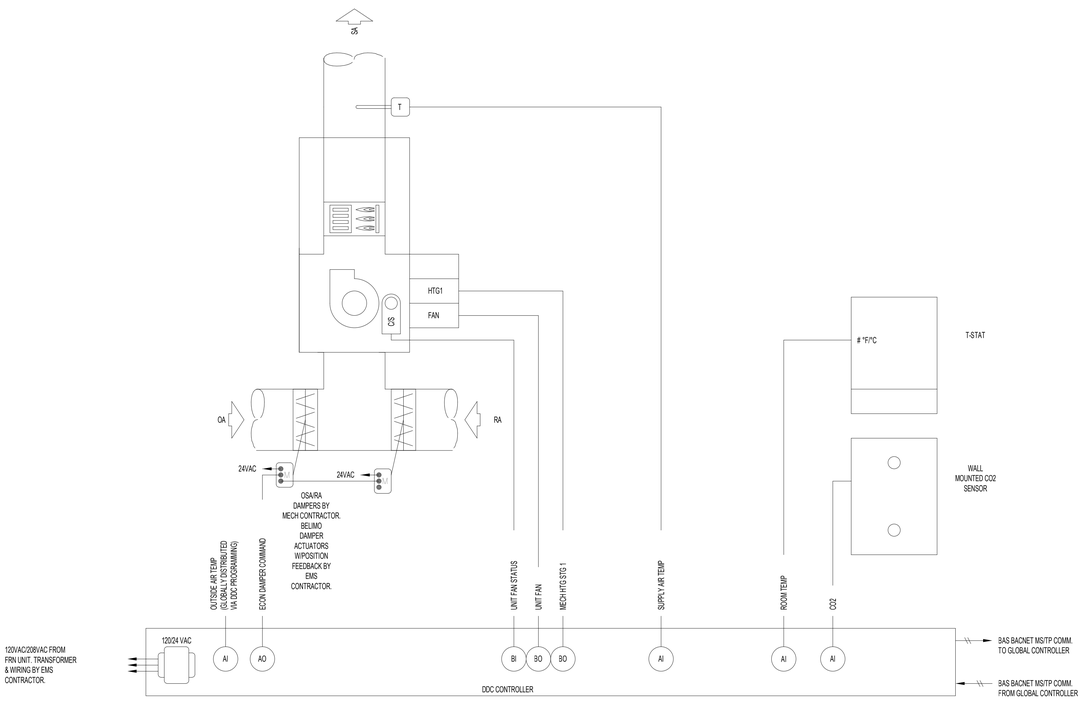
1. SCHEDULING
EACH SCHEDULED EXHAUST FAN SHALL HAVE AN INDEPENDENT, USER ADJUSTABLE 24 HOUR, 365 DAY OCCUPIED/UNOCCUPIED SCHEDULE. THE INITIAL SCHEDULE SHALL BE OCCUPIED EVERY DAY FROM 8 AM TO 5 PM.

2. FAN CONTROL
THE EXHAUST FAN SPEED SHALL BE SET AT BALANCE TO THE SPEED INDICATED IN THE SCHEDULE. THE FAN SHALL BE COMMANDED TO RUN DURING SCHEDULED OCCUPIED HOURS.

3. ALARMS
FAN MOTOR FAULT:
IF AN EXHAUST FAN FAILS TO GO TO COMMANDED CONDITION, AN ALARM SHALL BE GENERATED STATING "EXHAUST FAN <NAME> FAILURE." WHERE <NAME> IS REPLACED WITH THE NAME OF THE FAN GENERATING THE ALARM.

SCHEDULED EXHAUST FAN CONTROL POINTS		
POINT DESCRIPTION	FAN MOTOR STATUS	FAN START/STOP
POINT TYPE	BI	BO
TRENDED POINT	X	X
TREND INTERVAL (1 MINUTE)	X	X
TREND STORAGE POINT (1 YEAR)	X	X
HARDWIRED(H) / CALCULATED(C) / NETWORKED(N)	H	H

3 EXHAUST FAN CONTROL
N.T.S.



1 FURNACE WITH DEMAND CONTROL VENTILATION
N.T.S

FURNACE UNIT WITH ECONOMIZER & DEMAND CONTROL VENTILATION

1. SYSTEM OVERVIEW
   A. THE FURNACE UNIT PROVIDES HEATING AND VENTILATION TO EACH ZONE AND IS CAPABLE OF FULL OA ECONOMIZATION. VARIABLE SPEED BLOWER CONTROL IS VIA THE MANUFACTURER-PROVIDED ONBOARD CONTROLLER.
   B. EACH FURNACE UNIT WILL BE CONTROLLED BY ALERTON VLC-651R CONTROLLERS COMPLETE WITH A T-STAT, DISCHARGE AIR SENSORS, AND SWITCHING RELAYS, PER THE DISTRICT'S REQUEST. CO2 SENSORS TO ALSO BE PROVIDED.
   C. EACH VLC-651R CONTROLLER WILL BE CONNECTED TO ONE BCM GLOBAL CONTROLLER. THE BCM GLOBAL CONTROLLER WILL CONNECT TO THE WIDE AREA NETWORK CONTROLLED BY DISTRICT.
   D. DAMPER ACTUATORS BASIS OF DESIGN TO BE BELIMO.

2. UNIT FAN OPERATION
   A. WHEN THE ZONE IS IN OCCUPIED MODE THE FAN SHALL RUN CONTINUOUSLY AT THE SPEED REQUIRED FOR HEATING, COOLING, OR WARM-UP OPERATION.
   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.

3. MINIMUM OUTDOOR AIR VENTILATION
   A. DURING OCCUPIED 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. OA MIN DAMPER POSITION(S) DETERMINED BY AIR BALANCING CONTRACTOR.

4. 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 THE CONTROLLER SHALL LINEARLY RESET THE OUTSIDE AIR DAMPER MINIMUM POSITION BETWEN OA MIN AND FULLY OPEN TO MAINTAIN THE CO2 CONCENTRATION BELOW 1,000 PPM.

5. 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. IF IN OCCUPPIED MODE, ECONOMIZER DAMPER TO BE COMMANDED TO DCV MIN DURING HEATING MODE. DCV MIN IS ≥ OA MIN. IF IN UNOCCUPIED MODE, ECONOMIZER DAMPER TO BE COMMANDED CLOSED.
   C. THE FURNACE MUST RECEIVE 60 DEG F AIR FOR PROPER FUNCTION. MIN HEATING SETPOINT SHALL BE 70 DEG F.

6. COOLING OPERATION
   A. THE CONTROLLER COMPARES THE COOLING SETPOINT WITH THE SPACE TEMPERATURE AND DETERMINES A NEED-COOLING CONTROL SIGNAL TO SHUT OFF THE BURNER.
   B. ECONOMIZER DAMPER TO BE COMMANDED TO MAX CFM SETPOINT AND RETURN AIR DAMPER TO BE COMMANDED CLOSED DURING COOLING MODE.

7. MORNING WARM-UP
   A. THE EMS SHALL SCHEDULE THE ZONE TO BE IN OCCUPIED MODE ONE HOUR PRIOR TO THE ACTUAL TIME OF ANTICIPATED OCCUPANCY.
   B. DURING MORNING WARM-UP, THE CONTROLLER SHALL SET THE OUTSIDE AIR DAMPER TO CLOSED AND THE RETURN AIR DAMPER TO FULLY OPEN.
   C. THE TEMPERATURE SETPOINT SHALL BE NO LESS THAN 70 DEG. F.

8. RETURN AIR DAMPER
   A. THE RA DAMPER SHALL MODULATE INVERSELY WITH ECONOMIZER DAMPER FROM FULLY CLOSED WHEN ECONOMIZER DAMPER IS FULLY OPEN, TO FULLY OPEN WHEN ECONOMIZER IS FULLY CLOSED.

9. FAULT DETECTION DIAGNOSTICS
   A. THE EMS DDC CONTROLLER SHALL MONITOR THE FOLLOWING AND BROADCAST RESULTS VIA EMS NETWORK:
      i. TEMPERATURE SENSOR FAILURE/FAULT

10. MONITORING - THE FOLLOWING CONDITIONS SHALL BE MONITORED AND DISPLAYED AT EMS OPERATOR WORKSTATION:
   a. SUPPLY AIR TEMPERATURE.
   b. ROOM TEMPERATURE.
   c. ROOM HUMIDITY.
   d. ROOM CO2 CONCENTRATION.
   e. CURRENT MODE (HEATING/FAN).
   f. SUPPLY AIR TEMPERATURE ATTAINED LAST TIME UNIT WAS IN HEATING.
   g. CURRENT COMMAND STATUS OF FAN, AND GAS VALVE.
   h. RUN TIME METERS ON FAN AND HEAT.
   i. FAN STATUS THRU CURRENT SWITCH.

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Revisions

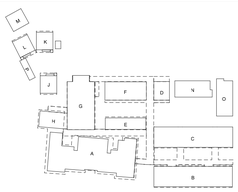
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HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

CONTROLS - MECHANICAL

Client Project Number: Client Proj. #

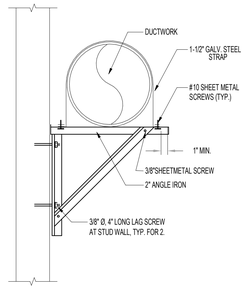
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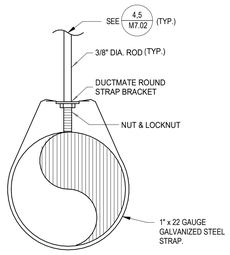
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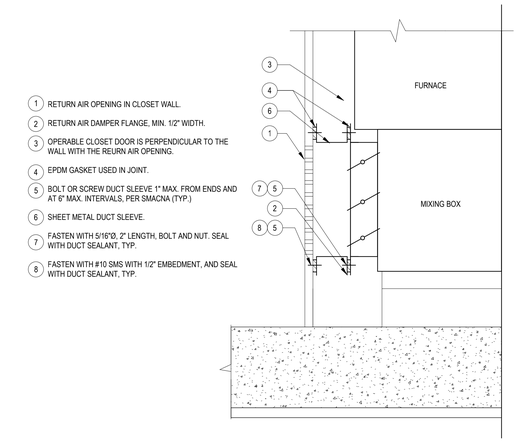
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11 ALTERNATE WALL MOUNTED DUCT
N.T.S.

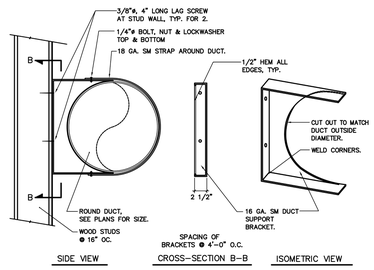


7 EXPOSED ROUND AIR DISTRIBUTION SUPPORT
N.T.S.

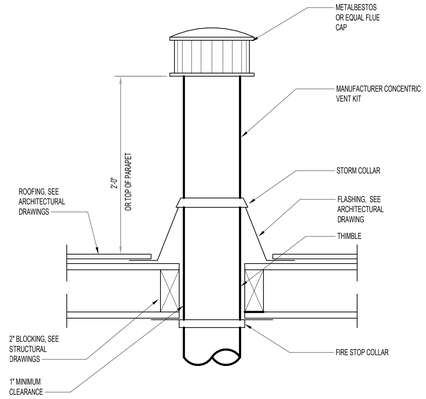


1. RETURN AIR OPENING IN CLOSET WALL.
2. RETURN AIR DAMPER FLANGE, MIN. 1/2" WIDTH.
3. OPERABLE CLOSET DOOR IS PERPENDICULAR TO THE WALL WITH THE REURN AIR OPENING.
4. EPDM GASKET USED IN JOINT.
5. BOLT OR SCREW DUCT SLEEVE 1" MAX. FROM ENDS AND AT 6" MAX. INTERVALS, PER SMACNA (TYP.)
6. SHEET METAL DUCT SLEEVE.
7. FASTEN WITH 5/16"Ø, 2" LENGTH, BOLT AND NUT. SEAL WITH DUCT SEALANT, TYP.
8. FASTEN WITH #10 SMS WITH 1/2" EMBEDMENT, AND SEAL WITH DUCT SEALANT, TYP.

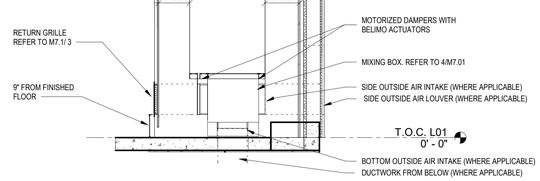
3 FURNACE RETURN AIR DETAIL
N.T.S.



10 TYPICAL EXPOSED WALL MOUNTED DUCT BRACKET
N.T.S.

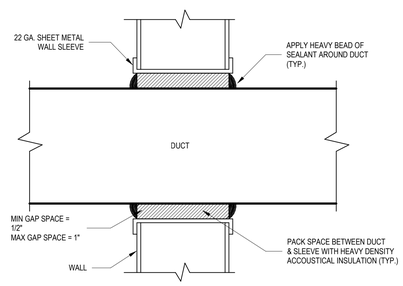


6 FLUE THROUGH ROOF
N.T.S.

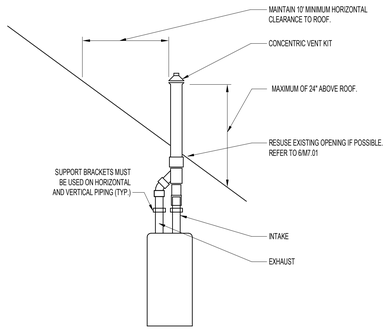


1. FOOTPRINT OF MIXING BOX AND FURNACE TO HAVE 4" CLEARANCE MIN. ON 3 SIDES, 2 FT. ON FURNACE ACCESS DOOR SIDE.
2. CLOSETS TO HAVE DOOR FOR ACCESS. 2 FT. CLEARANCE CAN BE ACCOUNTED FOR WITH DOOR OPEN.
3. S.A.D. FOR RELIEF LOUVER LOCATIONS.

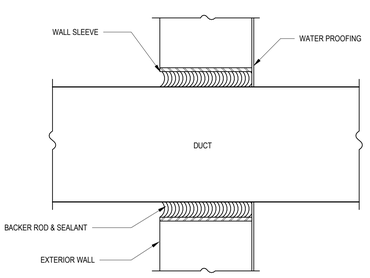
2 FURNACE INSTALLATION DETAIL PHASE 2
N.T.S.



9 DUCT PENETRATION THRU NON-RATED WALL
N.T.S.

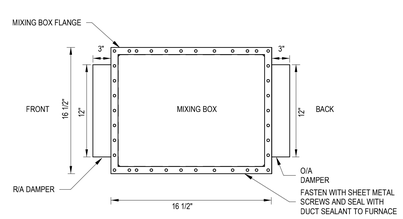


5 CONCENTRIC FLUE THROUGH ROOF
N.T.S.



NOTE: DUCT TO HAVE 1% SLOPE

8 DUCT PENETRATION THROUGH EXTERIOR WALL
N.T.S.

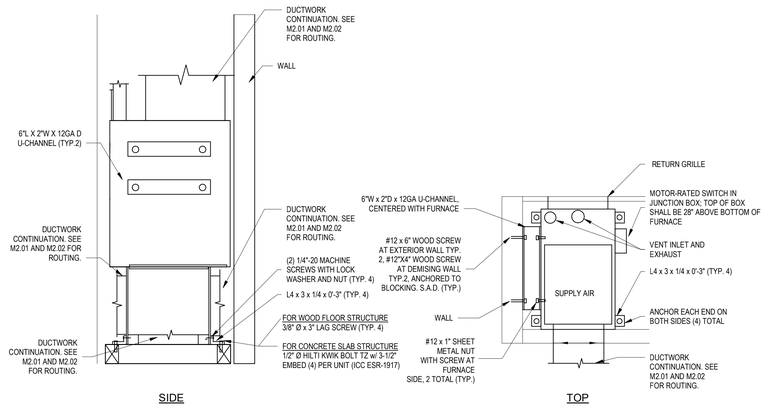


TOP VIEW

DETAIL NOTES

1. INSTALL MICROMETL MB-GP10TA-D00B WITH BELIMO ACTUATORS.
2. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR MORE DETAILS.
3. ALIGN FRONT OF MIXING BOX OPENING WITH FRONT OF FURNACE INLET OPENING.
4. MIXING BOX HEIGHT IS 16 1/2" IN.
5. DIMENSIONS APPLY TO MB-GP10TA-D00B. FOR CFMS GREATER THAN 1200, INSTALL MICROMETL MB-GP15CA-D00B WITH BELIMO ACTUATORS.
6. PROVIDE DAMPER AND ACTUATOR AT EACH DUCT CONNECTION.

4 MIXING BOX DETAIL
N.T.S.



SIDE

TOP

1 FURNACE BRACING DETAIL
N.T.S.

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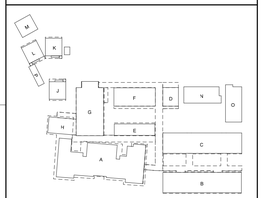
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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

DETAILS - MECHANICAL

Client Project Number: Client Proj. #

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Drawn By: Integral Group
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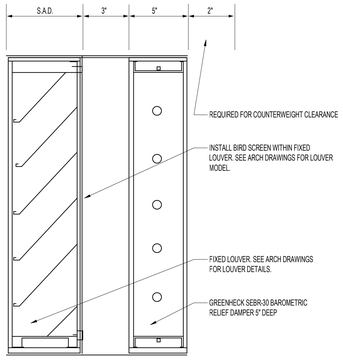
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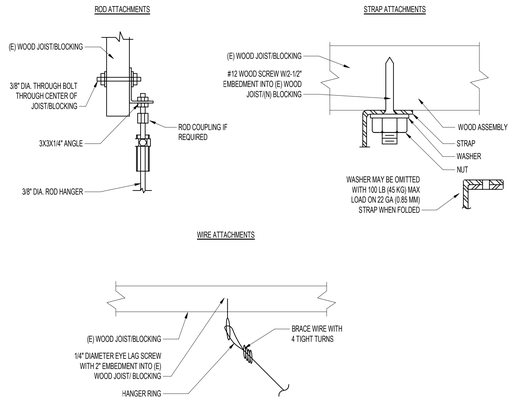
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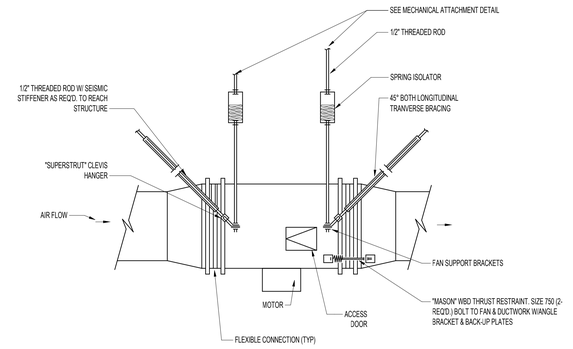
1. FIELD MODIFICATIONS OF LOUVER COMPONENTS SHALL BE REVIEWED AND APPROVED BY LOUVER MANUFACTURER
2. ATTACHMENT TO SURROUNDING STRUCTURE IS REQUIRED AT TOP AND BOTTOM OF EACH BLADE SUPPORT AS A MINIMUM REQUIREMENT.
3. CONTRACTOR SHALL SUPPLY AND PROPERLY APPLY BITUMINOUS COMPOUNDS IF IT IS REQUIRED BETWEEN DISSIMILAR METALS OR LOUVERS AND OTHER SURFACES. CONTRACTOR TO SET COUNTERWEIGHT TO 0.05" WATER GAUGE AND ACHIEVE DESIGN FLOW DURING ECONOMIZER MODE AT 0.1" LOBBY PRESSURIZATION.
4. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.



9 BAROMETRIC RELIEF LOUVRE
N.T.S.

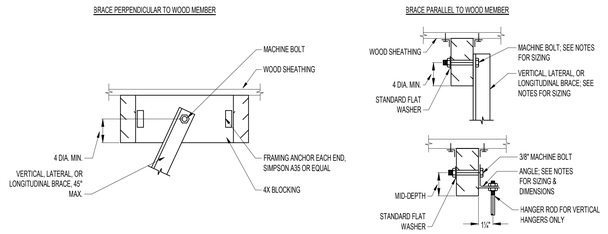


6 VERTICAL CEILING ANCHORS
N.T.S.

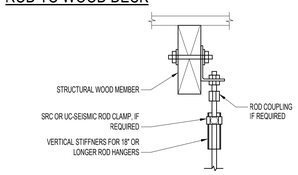


4 INLINE EXHAUST FAN MOUNTING DETAIL
N.T.S.

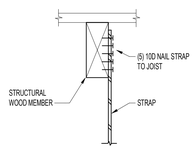
CHANNEL BRACE TO WOOD DECK



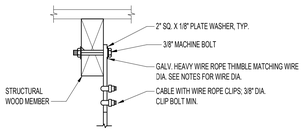
ROD TO WOOD DECK



STRAP TO WOOD DECK



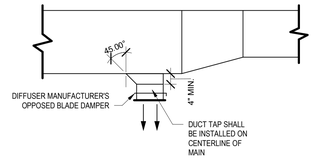
WIRE TO WOOD DECK



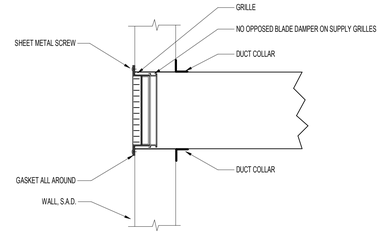
NOTES:

1. COMPLY WITH TITLE 24, 2016 CBC SECTION 1616A.1.18.
2. FOR PIPES SUPPORTED BY A PIPE HANGER, SEE ANSI/SMACNA 001-2008 TABLE 8- FOR MINIMUM PIPE SUPPORT AND BRACE SIZING AND SPACING.
3. FOR PIPES SUPPORTED BY A SINGLE TRAPEZE, SEE ANSI/SMACNCA 001-2008 TABLE 8-8 FOR BOLT AND BRACE SIZING AND SPACING.
4. SEE ANSI/SMACNA 001-2008 TABLE 9-1 FOR BOLT TYPE AND SIZE, AND ANGLE DIMENSIONS AND THICKNESS.
5. HOLES FOR BOLTS SHALL BE BORED 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER.

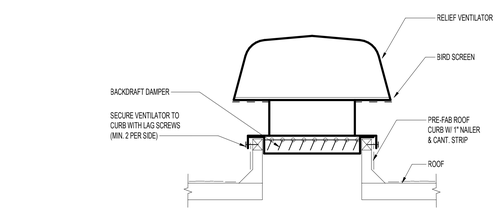
5 ATTACHMENT TO WOOD DECK
N.T.S.



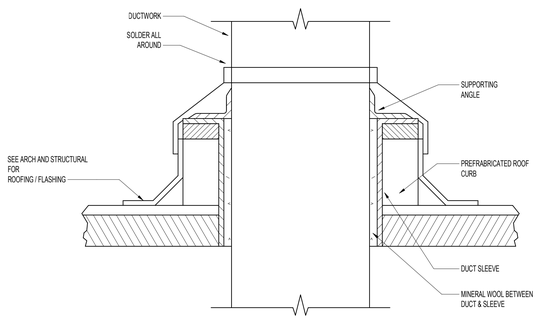
3 DUCT MOUNTED DIFFUSER DETAIL
N.T.S.



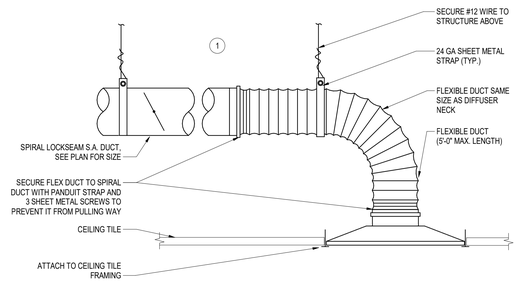
2 SIDEWALL GRILLE DETAIL
N.T.S.



8 RELIEF VENTILATOR
N.T.S.



7 DUCT ROOF PENETRATION WITH MFR CURB
N.T.S.



NOTES:

1. REFER TO SPECIFICATIONS FOR DUCTWORK INSULATION REQUIREMENTS.
2. IN LIEU OF THE SEISMIC ATTACHMENT CLIPS THE CONTRACTOR CAN PROVIDE CEILING DIFFUSERS WITH EARTHQUAKE TABS SECURE TO THE STRUCTURE WITH 12 GA WIRE.
3. IN LIEU OF SUPPORTING THE DUCT WITH 12 GAUGE WIRE THE CONTRACTOR CAN PROVIDE 2"-24 GA SHEETMETAL STRAP SECURED TO STRUCTURE.
4. PROVIDE MINIMUM RADIUS OF 1.5 DUCT DIAMETER FROM CENTER LINE OF DUCT.
5. NO OPPOSED BLADE BALANCING DAMPER UNLESS NOTED OTHERWISE.
6. SET DIFFUSER AIR PATTERN BEFORE INSTALLING.

SHEET NOTES

1. BALANCING DAMPER LOCATED AT BRANCH IN A ACCESSIBLE AREA OR MECHANICAL CHASE

1 SUPPLY AIR CEILING DIFFUSER DETAIL
NTS

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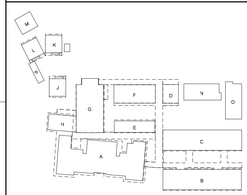
Revisions

No.	Revisions	By	Date	Appr.

BID SET
NOT FOR CONSTRUCTION
03/11/2019

DSA APPROVAL
IDENTIFICATION STAMP
DIVISION OF STATE ARCHITECT
APPL. 01-116977
AC ____ FLS ____ SS ____
DATE ____

INTEGRAL GROUP
427 13th Street
Oakland, CA 94612
510.663.2070 Telephone
E-Mail: info@integralgroup.com
www.integralgroup.com



This document is the property of the Owner and is not to be used without his written permission

Architect/Engineer Of Record:

JOSEPH D. WESTCOTT — REGISTERED PROFESSIONAL ENGINEER — No. M 36271 Exp. 3-31-19 — MECHANICAL — STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

DETAILS - MECHANICAL

Client Project Number: Client Proj. #

Scale: 12" = 1'-0"
Drawn By: Integral Group
Checked By: Integral Group
Issue Date: 03/11/19
Revit Version: 2017

Sheet
M7.02

3/1/2019 10:58:02 AM C:\Users\arolan\Documents\IG-MEP-MARTIN ES-R17_arolanKT7FX.rvt

0 5' 50' | 0 5' 25' | 0 1' 12' | 0 1' 6' | 0 4' | 0 1' 3' | 0 2' | 0 1'

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-MCH-01-E
Mechanical Systems — Page of
Project Name: MARTIN ELEMENTARY SCHOOL — Date Prepared: 02/28/2019

A. MECHANICAL COMPLIANCE DOCUMENTS & WORKSHEETS (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2016 Nonresidential Manual
Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

YES	NO	Comp. Doc./Worksheet #	Title
◉	○	NRCC-MCH-01-E (Part 1 of 3)	Certificate of Compliance, Declaration. Required on plans for all submittals.
○	◉	NRCC-MCH-01-E (Part 2 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-02-A to 11-A). Required on plans for all submittals.
◉	○	NRCC-MCH-01-E (Part 3 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-12-A to 18-A). Required on plans where applicable.
○	◉	NRCC-MCH-02-E (Part 1 of 2)	Mechanical Dry Equipment Summary is required for all submittals with Central Air Systems. It is optional on plans.
○	◉	NRCC-MCH-02-E (Part 2 of 2)	Mechanical Wet Equipment Summary is required for all submittals with chilled water, hot water or condenser water systems. It is optional on plans.
◉	○	NRCC-MCH-03-E	Mechanical Ventilation and Reheat is required for all submittals with multiple zone heating and cooling systems. It is optional on plans.
○	◉	NRCC-MCH-07-E (Part 1 of 2)	Power Consumption of Fans. Required on plans where applicable
○	◉	NRCC-MCH-07-E (Part 2 of 2)	Power Consumption of Fans, Declaration. Required on plans where applicable

B. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents)

Test Performed By:

Designer:
This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.

Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency:
Plancheck - The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked.

Test Description		MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-08-A	MCH-09-A	MCH-10-A	MCH-11-A
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Controlled Ventilation (DCV)	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Hydronic System Variable Flow Control	Automatic Demand Shed Control
59TP6A060E1412	10	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐
59TP6A080E1716	1	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐

Add Row | Remove Last

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-MCH-01-E
Mechanical Systems — Page of
Project Name: MARTIN ELEMENTARY SCHOOL — Date Prepared: 02/28/2019

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

Documentation Author Name: Alissa Roland — Documentation Author Signature: Alissa Roland
Company: Integral Group — Signature Date: 02/28/2019
Address: 427 13th St. — CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Oakland/CA/94612 — 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: Joseph Wenish — Responsible Designer Signature: Joseph Wenish
Company: Integral Group — Date Signed: 02/28/2019
Address: 427 13th St. — License:
City/State/Zip: Oakland/CA/94612 — Phone: 510-663-2070

STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
CEC-NRCC-MCH-03-E (Revised 05/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-MCH-03-E
Mechanical Ventilation & Reheat — Page of
Project Name: MARTIN ELEMENTARY SCHOOL — Date Prepared: 02/28/2019

A. Mechanical Ventilation and Reheat

In lieu of this compliance document, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet. Mechanical Ventilation and Reheat worksheet available on the Energy Commission's website at: http://www.energy.ca.gov/title24/2016standards/.
Note: In all of the calculations that compare a supply quantity to the REQ'D V.A. quantity, the actual percentage of outdoor air in the supply is ignored.
Areas in buildings for which natural ventilation is used should be clearly designated. Specifications must require that building operating instructions include explanations of the natural ventilation system.

ACTUAL DESIGN (FROM EQUIPMENT SCHEDULES, ETC)						AREA BASIS			OCCUPANCY BASIS			ROOM BASIS	MINIMUM		VAV REHEATED PRIMARY AIR CFM			VAV DEADBAND PRIMARY AIR CFM		
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
ZONE/SYSTEM/VAV BOX TAG	DESIGN PRIMARY COOLING AIRFLOW (CFM)	DESIGN PRIMARY DEADBAND AIRFLOW (CFM)	DESIGN PRIMARY HEATING AIRFLOW (CFM)	CONTROL TYPE (DDC Y/N)	TRANSFER AIRFLOW (CFM)	CONDITIONED AREA (ft²)	MIN CFM PER AREA	MIN CFM BY AREA	NUMBER OF PEOPLE	CFM PER PERSON	MIN CFM BY OCCUPANT	MIN CFM BY ROOM	REQ'D VENT AIRFLOW (CFM)	COMPLIES?	BASED DESIGN PRIMARY COOLING AIR	MAXIMUM REHEAT (CFM)	COMPLIES?	PRIMARY COOLING AIR	AIRFLOW	COMPLIES?
F12	1385	465	1385	Yes	0	1230	0.15	185	30.5	15	458	465	458	PASS						
F13	1110	360	1110	Yes	0	948	0.15	142	23.5	15	353	360	353	PASS						
F14	1110	350	1110	Yes	0	882	0.15	132	22	15	330	350	330	PASS						
F15	1110	355	1110	Yes	0	878	0.15	132	22	15	330	355	330	PASS						
F16	1110	350	1110	Yes	0	927	0.15	139	23	15	345	350	345	PASS						
F17	1110	350	1110	Yes	0	928	0.15	139	23	15	345	350	345	PASS						
F18	1110	390	1110	Yes	0	928	0.15	139	26	15	390	390	390	PASS						
F19	1110	390	1110	Yes	0	925	0.15	139	24	15	360	390	360	PASS						
F20	1110	335	1110	Yes	0	892	0.15	134	22	15	330	335	330	PASS						
F21	1110	340	1110	Yes	0	880	0.15	132	22	15	330	340	330	PASS						
F22	1110	340	1110	Yes	0	879	0.15	132	22.5	15	340	335	340	PASS						

Add Row | Remove Last

STATE OF CALIFORNIA
MECHANICAL VENTILATION AND REHEAT
CEC-NRCC-MCH-03-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-MCH-03-E
Mechanical Ventilation & Reheat — Page of
Project Name: MARTIN ELEMENTARY SCHOOL — Date Prepared: 02/28/2019

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

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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: Joseph Wenish — Responsible Designer Signature: Joseph Wenish
Company: Integral Group — Date Signed: 02/28/2019
Address: 427 13th St. — License: M36271
City/State/Zip: Oakland/CA/94612 — Phone: 510-663-2070

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-MCH-04-E
Required Acceptance Tests — Page of
Project Name: MARTIN ELEMENTARY SCHOOL — Date Prepared: 02/28/2019

Designer:
This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this compliance document will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Enforcement Agency:
Systems Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.

Systems Acceptance. Before occupancy permit is granted all newly installed HVAC equipment must be tested using the Acceptance Requirements. The NRCC-MCH-04-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance compliance documents shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed compliance documents before the building can receive final occupancy.

Test Description		MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-11-A	MCH-12-A	MCH-14-A	MCH-18-A	
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Automatic Demand Shed Control	FDD for Packaged DX Units	Distributed Energy Storage DX AC Systems	Energy Management Control System	Test Performed By:
59TP6A060E1412	10	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	
59TP6A080E1716	1	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	

Add Row | Remove Last

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-MCH-04-E
Required Acceptance Tests — Page of
Project Name: MARTIN ELEMENTARY SCHOOL — Date Prepared: 02/28/2019

A. MECHANICAL COMPLIANCE FORMS & WORKSHEETS
(indicate if worksheet is included)

For detailed instructions on the use of this and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual
Note: The Enforcement Agency may require all compliance documents to be incorporated onto the building plans. The NRCC-MCH-04-E and NRCC-MCH-05-E are alternative compliance documents to NRCC-MCH-01-E, NRCC-MCH-02-E and NRCC-MCH-03-E for projects using only single zone packaged HVAC systems.

YES	NO	Form	Title
◉	○	NRCC-MCH-04-E (1 of 2)	Certificate of Compliance. Required on plans when used.
◉	○	NRCC-MCH-04-E (2 of 2)	Mechanical Acceptance Tests. Required on plans when used.
◉	○	NRCC-MCH-05-E (1 of 2)	HVAC Prescriptive Requirements. It is required on plans when used.
◉	○	NRCC-MCH-05-E (2 of 2)	Mechanical SWH Equipment Summary is required for all submittals with service water heating, pools or spas. It is required on plans where applicable.

STATE OF CALIFORNIA
REQUIRED ACCEPTANCE TESTS
CEC-NRCC-MCH-04-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-MCH-04-E
Required Acceptance Tests — Page of
Project Name: MARTIN ELEMENTARY SCHOOL — Date Prepared: 02/28/2019

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Responsible Designer Name: Joseph Wenish — Responsible Designer Signature: Joseph Wenish
Company: Integral Group — Date Signed: 02/28/2019
Address: 427 13th St. — License: M36271
City/State/Zip: Oakland/CA/94612 — Phone: 510-663-2070

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units — (Page 1 of 2)
Project Name: MARTIN ELEMENTARY SCHOOL — Date Prepared: 02-28-2019

Equipment Tag(s)[1]		EH-1, -2		F-12		F-13 THRU -22	
MANDATORY MEASURES	*T-24 Sections*	*Requirement*[2]	*As Scheduled*[3]	*Requirement*[2]	*As Scheduled*[3]	*Requirement*[2]	*As Scheduled*[3]
Heating Equipment Efficiency[4]	110.1 or 110.2(a)	100%	100%	78%	95%	78%	95%
Cooling Equipment Efficiency[4]	110.1 or 110.2(a)	N/A	N/A	N/A	N/A	N/A	N/A
Thermostats[5]	110.2(b), 110.2(c)	N/A	N/A	SETBACK REQD.	M2.01,M2.02	SETBACK REQD.	M2.01,M2.02
Furnace Standby Loss Control[6]	110.2(d)	N/A	N/A	N/A	N/A	N/A	N/A
Low Leakage AHU	110.2(f)	N/A	N/A	N/A	N/A	N/A	N/A
Ventilation[7]	120.1(b)	N/A	N/A	MCH-03	M0.02	MCH-03	M0.02
Demand Control Ventilation[8]	120.1(c)4	N/A	N/A	REQD.	M6.01	REQD.	M6.01
Occupant Sensor Ventilation Control[8]	120.1(c)5, 120.2(e)3	N/A	N/A	EXEMPT	N/A	EXEMPT	N/A
Shutoff and Reset Controls[9]	120.2(e)	N/A	AUTO SHUTOFF	DCV	M6.01	DCV	M6.01
Outdoor Air and Exhaust Damper Control	120.2(f)	N/A	N/A	REQD.	M6.01	REQD.	M6.01
Automatic Demand Shed Controls	120.2(h)	N/A	N/A	N/A	N/A	N/A	N/A
Economizer FDD	120.2(i)	N/A	N/A	NOT REQD.	M6.01	NOT REQD.	M6.01
Duct Insulation	120.4	N/A	N/A	NOT REQD.	M2.01,M2.02	NOT REQD.	M2.01,M2.02
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with 140.4 (a & b)	140.4(a & b)	REQD.	M0.02	REQD.	M2.01,M2.02	REQD.	M2.01,M2.02
Economizer	140.4(e)	N/A	N/A	REQD.	M6.01	N/A	M6.01
Electric Resistance Heating[10]	140.4(g)	REQD.	EXCEPTION 4	N/A	N/A	N/A	N/A
Duct Leakage Sealing and Testing.[11]	140.4(l)	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
1. *Provide equipment tags (e.g. AC1 or AC1 to 10). Multiple units of the same make and model with the same application and accessories can be grouped together.*
2. *Enter the following information as appropriate: Unit Manufacturer; Unit Model Number (including all accessories); Description of the unit (e.g. gas-pack or heat pump; rated heating capacity (enter "N/A" if no heating); and, rated cooling capacity (enter "N/A" if no cooling). For unit capacities include the units (e.g. kBtuh or tons).*
3. *For each requirement, enter the minimum requirement from the Standard in the left column (under "Standard Requirement"). In the right column (under "As Scheduled") enter the value for the units as specified.*
4. *Where there is more than one requirement (e.g. full and part load efficiency) enter both with the appropriate labels (e.g. COP and IEER).*
5. *In the left column identify the thermostatic requirements from the standard (e.g. programmable setback thermostat or heatpump with electric heat), . In the right column indicate the capabilities of the thermostat as scheduled.*
6. *If the unit has a furnace which is rated at ≥ 225,000 Btuh of capacity, indicate the rated standby loss and ignition source (e.g. IID). If there is no furnace or the unit is rated for <225,000 Btuh indicate "N/A".*
7. *In the left column, enter both the required ventilation value from Table 120.1A and for the number of occupants times 15 cfm/person. In the right column enter the actual minimum ventilation as scheduled. If the space is naturally ventilated enter "N/A" in the left column and "the space is naturally ventilated" in the right column.*
8. *If the space is required to have either DCV or Occupant Sensor Ventilation Control indicate "required" in the left column (otherwise indicate "N/A" in the left column). If either DCV or Occupant Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)*
9. *In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).*
10. *Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.*
11. *If duct leakage sealing and testing is required, a **MCH-04-A** compliance document must be submitted.*

STATE OF CALIFORNIA
REQUIREMENTS FOR PACKAGED SINGLE ZONE UNITS
CEC-NRCC-MCH-05-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-MCH-05-E
Requirements for Packaged Single-Zone Units — (Page 2 of 2)
Project Name: MARTIN ELEMENTARY SCHOOL — Date Prepared: 02-28-2019

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

Documentation Author Name: Alissa Roland — Documentation Author Signature: Alissa Roland
Company: Integral Group — Signature Date: 02-28-2019
Address: 427 13th St. — CEA/ HERS Certification Identification (if applicable):
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City/State/Zip: Oakland/CA/94612 — Phone: 510-663-2070

SAN FRANCISCO UNIFIED SCHOOL DISTRICT — EDUCATION FOR ALL

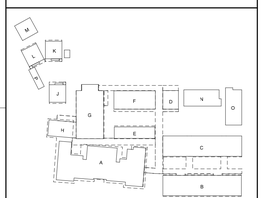
Revisions

No.	Revisions	By	Date	Appr.

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03/11/2019

DSA APPROVAL
IDENTIFICATION STAMP
DIVISION OF STATE ARCHITECT
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DATE _____

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Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
TITLE 24

Client Project Number: Client Proj. #

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GRAPHIC SCALES: 1/16" = 1'-0" (0, 5', 50') | 1/8" = 1'-0" (0, 5', 25') | 1/4" = 1'-0" (0, 1', 12') | 1/2" = 1'-0" (0, 1', 6') | 3/4" = 1'-0" (0, 4') | 1" = 1'-0" (0, 1', 3') | 1 1/2" = 1'-0" (0, 2') | 3" = 1'-0" (0, 1')

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

PLUMBING ABBREVIATIONS

ABV	ABOVE
AC	ALTERNATING CURRENT
ACU	AIR-CONDITIONING UNIT(S)
ADA	AMERICANS WITH DISABILITIES ACT
ADAAG	AMERICANS WITH DISABILITIES ACT
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AF	ABOVE THE FLOOR
AFF	ABOVE FINISHED FLOOR
AGA	AMERICAN GAS ASSOCIATION
AHP	AIR HORSEPOWER
AHU	AIR-HANDLING UNIT
AIR COND	AIR CONDITION(-ING, -ED)
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALT	ALTERNATE
AMB	AMBIENT
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ARF	ABOVE RAISED FLOOR
ASC	ABOVE SUSPENDED CEILING
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND
ATC	ACOUSTICAL TILE CEILING
ATM	ATMOSPHERE
AV	ACID VENT
AW	ACID WASTE
AWG	AMERICAN WIRE GAUGE
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION
B&S	BELL AND SPIGOT
BDY	BOUNDARY
BEL	BELOW
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BLR	BOILER
BM	BEAM
BOD	BOTTOM OF DUCT
BOM	BILL OF MATERIAL
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BRF	BELOW RAISED FLOOR
BSMT	BASEMENT
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
BV	BUTTERFLY VALVE
BWV	BACK WATER VALVE
C	DEGREES CELSIUS
CA	COMPRESSED AIR
CAB	CABINET
CAP	CAPACITY
CB	CATCH BASIN
CCT	CIRCUIT
CD	CONDENSATE DRAIN
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CISP	CAST IRON SOIL/SEWER PIPE
CISPI	CAST IRON SOIL PIPE INSTITUTE
CL	CENTERLINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CNTR	CENTER
CO	CLEANOUT
COEF	COEFFICIENT
COL	COLUMN
COM	COMMON
CONC	CONCRETE
CONN	CONNECTION
COND	CONDENS(ER, -ING, -ATION)
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CS	CAST STEEL
CTR	CENTER
CU	COPPER (CHEMICAL ABBREVIATION)
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CV	CHECK VALVE
CW	COLD WATER
CWP	CIRCULATING WATER PUMP
D	DEEP
DB	DECIBEL
DBL	DOUBLE
DC	DIRECT CURRENT
DCV	DETECTOR CHECK VALVE
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DI	DEIONIZED WATER
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DP	DEPTH OR DEEP
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DW	DISTILLED WATER
DWG	DRAWING
DWV	DRAIN, WASTE AND VENT
E	EXISTING
EA	EACH
EFF	EFFICIENCY
ELEC	ELECTRICAL
EMER	EMERGENCY
ENCL	ENCLOSURE
ENG	ENGINEER
ENT	ENTRANCE
EQ	EQUAL
ESS	EMERGENCY SAFETY SHOWER
EEW	EMERGENCY EYEWASH
ESEW	EMERGENCY SHOWER / EYEWASH
EST	ESTIMATE
EVAP	EVAPORAT(-E, -ING, -ED, -OR)
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXP	EXPOSED
EXT	EXTINGUISH
F	FAHRENHEIT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FG	FINISH GRADE
FH	FIRE HOSE
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHS	FIRE HOSE STATION
FHY	FIRE HYDRANT
FIXT	FIXTURE
FL	FLOOR
FND	FOUNDATION
FP	FIRE PROTECTION MAIN
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FR	FIRE RISER
FS	FLOOR SINK
FT	FEET
FU	FIXTURE UNIT
FURN	FURNISH
FUT	FUTURE
FVC	FIRE VALVE CABINET
FW	FIRE WATER
G	GAS
GA	GAGE OR GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GND	GROUND
GOVT	GOVERNMENT
GP	GALVANIZED PIPE
GPD	GALLONS PER DAY
GPF	GALLONS PER FLUSH GPM GALLONS PER MINUTE
GPH	GALLONS PER HOUR
GPS	GALLONS PER SECOND
GV	GALVANIZED
GVA	GATE VALVE
H	HIGH
HB	HOSE BIB
HD	HEAD
HDR	HEADER
HOR	HORIZONTAL
HP	HORSE POWER
HR	HOUR
HRS	HOURS
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ (CYCLES PER SECOND)
I	IRON
IBV	INDICATING BUTTERFLY VALVE
ICW	INDUSTRIAL COLD WATER
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IHW	INDUSTRIAL HOT WATER
IHWR	INDUSTRIAL HOT WATER RETURN
INC	INCREASER, INCREASING
IN	INCH
INCL	INCLUDE
INCR	INCREASE
INFO	INFORMATION
INS	INSULATION
INSP	INSPECT
INSUL	INSULATION
INT	INTERIOR, INTERNAL
INV	INVERT
IP	IRON PIPE
IPS	IRON PIPE SIZE
IW	INDIRECT WASTE
J-BOX	JUNCTION BOX
JC	JANITOR'S CLOSET
KF	KITCHEN FIXTURE
KW	KILOWATT
KWH	KILOWATT HOUR
KVA	KILOVOLT-AMPERE
KW	KILOWATT
L	LENGTH
LAB	LABORATORY
LAT	LATERAL
LAV	LAVATORY
LBS	POUNDS
LD	LEAK DETECTION
LF	LINEAR FEET
LG	LENGTH
LH	LEFT HAND
LPD	LOW POINT DRAIN
LV	LAB VENT
LW	LAB WASTE
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
ME	MECHANICAL ENGINEER
MECH	MECHANICAL
MFR	MANUFACTURER
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MS	MOP SINK
MTR	MOTOR
MWP	MAXIMUM WORKING PRESSURE
N	NITROGEN
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NFWH	NON-FREEZE WALL HYDRANT
NOM	NOMINAL
NRS	NON RISING STEAM VALVE
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
NBS	NATIONAL BUREAU OF STANDARDS
NC	NOISE CRITERIA
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO.#	NUMBER
NPS	NOMINAL PIPE SIZE (ALSo CALLED IPS)
NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
NTS	NOT TO SCALE
O	OXYGEN (CHEMICAL BREVIATION)
OC	ON CENTER
OD/A	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
OSD	OPEN SIGHT DRAIN
OS&Y	OUTSIDE SCREW & YOKE (VALVE)
OUT	OUTLET
OZ	OUNCE
P	PITCH
PB	LEAD (CHEMICAL ABBREVIATION)
PD	PLAZA DRAIN, PRESSURE DROP, OR DIFFERENCE
PDI	PLUMBING DRAINAGE INSTITUTE
PE	PROFESSIONAL ENGINEER
PERIM	PERIMETER
PG	PRESSURE GAUGE
PH	PHASE (ELECTRICAL)
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PLBG	PLUMBING
POC	POINT OF CONNECTION
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRIM	PRIMARY
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PV	PUMP VACUUM
PVC	POLYVINYL CHLORIDE
PW	PURE WATER
PWR	PURE WATER RETURN
PWR	POWER
QT	QUART
QTY	QUANTITY
R	HYDRAULIC RADIUS
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RCVR	RECEIVER
RD	ROOF DRAIN
RECIRC	RECIRCULATE
REF	REFERENCE
REQD	REQUIRED
RET	RETURN
REV	REVISION
RF	ROOF
RH	RIGHT HAND
RL	ROOF LEADER
RM	ROOM
RO	REVERSE OSMOSIS
RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RW	RAW WATER
RWC	RAIN WATER CONDUCTOR
RWL	RAIN WATER LEADER
SAD	SEE ARCHITECTURAL DRAWING(S)
SCD	SEE CIVIL DRAWING(S)
SMD	SEE MECHANICAL DRAWING(S)
SSD	SEE STRUCTURAL DRAWING(S)
SLD	SEE LANDSCAPE ARCHITECT DRAWING(S)
SD	STORM WATER
SK	SINK
S&W	SOIL & WASTE
SAN	SANITARY
SB	SPLASH BLOCK
SCFM	CUBIC FT PER MINUTE, STANDARD CONDITIONS
SCFS	CUBIC FT PER SEC, STANDARD CONDITIONS
SCH	SCHEDULE
SCUP	SCUPPER
SD	STORM DRAIN
SEC	SECOND
SECT	SECTION
SERV	SERVICE
SEV	SEWAGE EJECTOR VENT
SF	SQUARE FOOT
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SLV	SLEEVE
SOV	SHUTOFF VALVE
SP	STANDPIPE
SP	PRESSURE, STATIC
SPEC	SPECIFICATION
SPD	SUMP PUMP DISCHARGE
SPM	SPRINKLER MAIN
SS	SERVICE SINK
STD	STANDARD
STL	STEEL
SUCT	SUCTION
SV	SAFETY RELIEF VALVE
SQ	SQUARE
SQ FT	SQUARE FEET
SS	SERVICE SINK
ST	SANITARY TAP
STD	STANDARD
T	TEE
T&P	TEMPERATURE & PRESSURE RELIEF VALVE
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TLT	TOILET
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
TYP	TYPICAL
TAP	TAP, TAPPED
TOT	TAP ON TOP
TP	TRAP SEAL PRIMER
TY	TEE WYE, (SAN TEE)
TYP	TYPICAL
UR	URINAL
UON	UNLESS OTHERWISE NOTED
V	VENT
VT	VOLT
VOL	VOLUME
VAC	VACUUM
VAR	VARIABLE
VB	VALVE BOX
VEL	VELOCITY
VERT	VERTICAL
VLV	VALVE
VOL	VOLUME
VP	VENT PIPE
VS	VENT STACK
VTR	VENT THROUGH ROOF
W	WATT
W	WASTE
W	WITH
W/O	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEANOUT
WFS	WATER FLOW SWITCH
WH	WATER HEATER
WM	WATER METER
WS	WATER STOP
WH	WALL HYDRANT
WL	WATER LEVEL
WP	WEATHERPROOF
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WEIGHT
%	PERCENT
(E)	EXISTING
(N)	NEW
@	AT (THE RATE OF)
&	AND
#	NUMBER

PLUMBING SYMBOLS

POINT OF CONNECTION
LINE BREAK
PIPE CAP
END OF PIPE
TEMPERATURE SENSOR
FLEX CONNECTION
UNION
FLOW DIRECTION
DWV FITTING, 45° ELBOW
DWV FITTING, 90° ELBOW
DWV FITTING, 45° TEE
DWV FITTING, 90° TEE
PIPE DROP
PIPE BRANCH, TOP
PIPE BRANCH, BOTTOM

SHUTOFF VALVE
2-WAY CONTROL VALVE
3-WAY CONTROL VALVE
SOLENOID VALVE
BALL VALVE
BUTTERFLY VALVE
CHECK VALVE
CIRCUIT SETTER / BALANCING VALVE
GLOBE VALVE
GLOBE VALVE, ANGLE
GATE VALVE
GATE VALVE, ANGLE
PRESSURE REDUCING OR REGULATING VALVE
T&P RELIEF VALVE
DRAIN VALVE, LINE
DRAIN VALVE, TANK
PETE'S PLUG / TEST PORT
AUTOMATIC AIR VENT
GOOSENECK AIR VENT
XX / XX EQUIPMENT TAG

PLUMBING LEGEND

SYMBOL	TAG	DESCRIPTION
CW	CW	COLD WATER
HW	HW	HOT WATER SUPPLY
HWR	HWR	HOT WATER RETURN
SAN	SAN	SANITARY SEWER
SAN	SAN	SANITARY SEWER (UNDERFLOOR)
V	V	SANITARY VENT
G	G	NATURAL GAS
CD	CD	CONDENSATE DRAIN

OWNERSHIP OF INSTRUMENTS OF SERVICE

1. ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.
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CALIFORNIA CODES AND STANDARDS

1. 2016 CALIFORNIA BUILDING CODE
2. 2016 CALIFORNIA ELECTRICAL CODE
3. 2016 CALIFORNIA MECHANICAL CODE
4. 2016 CALIFORNIA PLUMBING CODE
5. 2016 CALIFORNIA ENERGY CODE
6. 2016 CALIFORNIA FIRE CODE
7. 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE

GENERAL NOTES

1. PROVIDE COMPLETE AND FULLY FUNCTIONAL PLUMBING SYSTEMS AS INDICATED IN THE CONTRACT DOCUMENTS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, CALIFORNIA MECHANICAL CODE, CALIFORNIA BUILDING CODE AND LOCAL RULES AND REGULATIONS, STATE AND LOCAL FIRE MARSHAL REGULATIONS, THE SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL ELECTRIC CODE, THE STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, AMERICAN GAS ASSOCIATION, OCCUPATION AND SAFETY ACT, AMERICAN NATIONAL STANDARDS INSTITUTE, AMERICAN SOCIETY OF MECHANICAL ENGINEERS, AMERICAN SOCIETY FOR TESTING AND MATERIALS, INSTALLATION STANDARDS PUBLISHED BY THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS (IAPMO) AND OTHER APPLICABLE LAWS, CODES, OR REGULATIONS. NOTHING IN THESE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
2. VERIFY LOCATION OF UTILITIES PRIOR TO PERFORMING WORK. COORDINATE ALL WORK WITH OTHER TRADES.
3. PLUMBING FIXTURES SHALL HAVE MAXIMUM FLOW RATES AS INDICATED ON SCHEDULES.
4. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, MOUNTING HEIGHTS AND COLOR OF PLUMBING FIXTURES.
5. COORDINATE ALL CORING OF FLOORS AND WALLS WITH ARCHITECT PRIOR TO START OF WORK.
6. BEFORE FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD.
7. PIPING SHALL HAVE SUFFICIENT CLEARANCE FROM STRUCTURE TO ALLOW FOR EXPANSION AND CONTRACTION OF THE PIPING. NO PIPING SHALL TOUCH WOOD, CONCRETE, OTHER PIPING, ETC.
8. ALL EQUIPMENT, FIXTURES, ETC. SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
9. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY AND PERFORM ALL REQUIRED TESTING OF ALL PIPING AND ACCESSORIES INSTALLED. ALL SUCH PLUMBING INSTALLATIONS SHALL BE TESTED, REPAIRED, AND ADJUSTED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AND ALL GOVERNING AUTHORITIES.
10. ALL VALVES, UNIONS, ETC. SHALL BE ETC. TO BE SAME SIZE AS LINE SIZE UNLESS OTHERWISE NOTED ON DRAWINGS.
11. PROVIDE UNIONS AFTER EACH THREADED VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
12. FOLLOW THE GENERAL ARRANGEMENT INDICATED ON THE DRAWINGS AS CLOSELY AS POSSIBLE. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND ALL OTHER TRADES PRIOR TO INSTALLATION OF THE MATERIALS AND EQUIPMENT TO VERIFY ADEQUATE SPACE AVAILABLE FOR INSTALLATION OF THE WORK SHOWN. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED IF AN AREA OF CONFLICT OCCURS BETWEEN TRADES.
13. SPECIFICATIONS ARE AN INTEGRAL PART OF THIS PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH SPECIFICATION REQUIREMENTS.
14. ALL FIXTURES, FLOOR DRAINS, FLOOR SINKS, ETC. SHALL BE TRAPPED AND VENTED. PROVIDE TRAP PRIMER TO ALL FLOOR DRAINS, FLOOR SINKS, HUB DRAINS AND AS INDICATED ON THE DRAWINGS. ALL TRAP PRIMERS SHALL BE ACCESSIBLE AND PROVIDED WITH A 12"X12" ACCESS PANEL (MINIMUM).
15. PRIMARY AND SECONDARY STORM DRAINAGE PIPING SHALL BE INSULATED. INSULATE DRAIN BODY AND HORIZONTAL UP TO 5 FEET OF VERTICAL FROM THE HORIZONTAL
16. PROVIDE ALL PIPING, VALVES, FITTINGS AND OTHER APPURTENANCES FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
17. PIPING TO BE SLOPED AS FOLLOWS:
    - A. SANITARY SEWER = 1%
    - B. SANITARY VENT (BELOW FLOOD RIM) = 1%
    - C. SANITARY VENT (ABOVE FLOOD RIM) = 0.25%
    - D. TRAP PRIMER = 1%
    - E. CONDENSATE = 1%
18. VERIFY IN FIELD EXISTING CONDITIONS, SIZE AND EXACT LOCATION OF SERVICES PRIOR TO START OF WORK.
19. THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT WERE PREPARED BY THE DESIGN TEAM USING 3-D MODELING SOFTWARE. USING THIS SOFTWARE BY THE DESIGN TEAM DOES NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE NECESSARY COORDINATION TO PROVIDE COMPLETE, CODE COMPLIANT AND OPERATIONAL BUILDING SYSTEMS. THE PLANS AND SECTIONS PROVIDED ARE NOT COMPLETE AND ARE TO BE CONSIDERED DIAGRAMMATIC ONLY. THE EXACT LOCATION OF THE PIPING, DUCTWORK, ELECTRICAL AND SUPPORT COMPONENTS ARE TO BE DETERMINED IN THE FIELD. ALL BUILDING SECTIONS AND DETAILS PROVIDED ARE FOR INFORMATION ONLY AND DO NOT RELIEVE THE CONTRACTOR FROM PERFORMING FINAL COORDINATION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THEDETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING 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 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 THE ATTACHMENT 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 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 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 SYSTEM BRACING NOTE

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 ATTACHMENT TO THE STRUCTURE SHALL BE DETAILED ON SHEET P-5.02.

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 SYSTEM.

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

DRAWING LIST

SHEET NUMBER	SHEET NAME
P0.01	LEGEND, ABBREVIATIONS, AND GENERAL NOTES - PLUMBING
P0.02	SCHEDULES - PLUMBING
PD2.01	DEMOLITION FLOOR PLANS – BLDGS A & E - PLUMBING
PD2.02	DEMOLITION FLOOR PLANS – BLDGS B, C, D & F - PLUMBING
P2.01	OVERALL FLOOR PLANS – BLDGS A & E - PLUMBING
P2.02	OVERALL FLOOR PLANS – BLDGS B, C, D & F - PLUMBING
P6.01	DIAGRAMS AND DETAILS - PLUMBING
P6.02	DIAGRAMS AND DETAILS - PLUMBING

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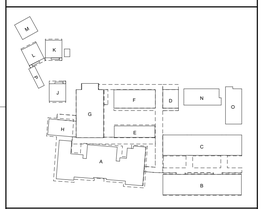
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HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

LEGEND, ABBREVIATIONS, AND GENERAL NOTES - PLUMBING

Client Project Number: Client Proj. #

Scale: 12" = 1'-0"
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P0.01

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0 5' 50'
0 5' 25'
0 1' 12'
0 1' 6'
0 4'
0 1' 3'
0 2'
0 1'
GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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PLUMBING - FIXTURE SCHEDULE

TAG	DESCRIPTION	MINIMUM BRANCH CONNECTION					REMARKS
		WASTE	TRAP	VENT	CW	HW	
BF-1	BOTTLE FILLER	1 1/4	-	1 1/2"	1/2"	-	HAWS 1920,6700.4L MOUNTING PLATE, WITH HAWS 6469 DRIP TO MOUNT ON WATER FOUNTAIN, ADD SANITARY LINETO TIE INTO WASTE LINE BEFORE PEA TRAP. IF NOT POSSIBLE PROVIDE PEA TRAP AND TIE INTO SAITARY LINE.
LV-1	STUDENT LAVATORY (ADA)	2"	-	2	1/2"	-	AMERICAN STANDARD "LUCERNE" 0355.012 OR EQUAL, CHICAGO 3400 ABCP "ECAST" 0.35 GPM AERATOR
LV-2	ADULT STAFF LAVATORY (ADA)	2"	-	2	1/2"	1/2"	AMERICAN STANDARD "LUCERNE" 0355.012 OR EQUAL, CHICAGO 3400 ABCP "ECAST" 0.35 GPM AERATOR
SK-1	CLASSROOM SINK (ADA)	2"	-	1 1/2"	1/2"	-	CHICAGO FAUCETS 350-E35VP317XKABCP 1.5 GPM, STAINLESS STEEL, SINGLE BOWL TOP MOUNTED, SINK + FAUCET. SINK: ELKAY MODEL LRAD191955 SINGLE HOLE PUNCH
SK-2	CLASSROOM SINK (ADA)	2"	-	1 1/2"	1/2"	-	FAUCET: CHICAGO ELECTRONIC - DC FAUCET 116.213.AB.1. 1.0 GPM, STAINLESS STEEL, SINGLE BOWL TOP MOUNTED, SINK + FAUCET. SINK: ELKAY MODEL LRAD191955 SINGLE HOLE PUNCH
WC-1	WATER CLOSET FLUSHOMETER	4"	-	2"	1 1/4"	-	KOHLER K-96059 JUVENILE ULTRA, VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL. SLOAN ROYAL#111-1.6
WC-2	STUDENT WATER CLOSET FLUSHOMETER	4"	-	2"	1 1/4"	-	KOHLER K-96059 JUVENILE ULTRA, VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL. SLOAN 142-1.28 6 3/4 LDIM WB, 1.28 GPF ADA COMPLIANT METAL OSCILLATING NON-HOLD-OPEN HANDLE WITH TRIPLE SEAL HANDLE PACKING, VACUUM BREAKER, INSTALL PER ADA REQUIREMENTS.
WC-3	STAFF WATER CLOSET FLUSHOMETER	4"	-	2"	1 1/4"	-	ZURN Z5665,WHITE VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL. SLOAN ROYAL#111-1.6

PLUMBING - ELECTRIC WATER HEATER SCHEDULE

TYPE	EQUIPMENT NUMBER	MANUFACTURER	MODEL	LOCATION	SERVICE	CAPACITY		EFF. (%)	ELECTRICAL				DIMENSIONS			OPERATING WEIGHT	NOTES
						GPM	@ °F RISE		POWER	VOLT	PHASE	FREQUENCY	LENGTH	WIDTH	HEIGHT		
EWH	1	HUBBELL	R0112S	BUILDING F	TEACHERS SINK	1 GPM	55 °F	99	8.20 kW	208 V	1	60 Hz	0' - 3 9/16"	1' - 1 1/2"	1' - 4 3/16"	16.50 lb	1,2
EWH	2	HUBBELL	R0112S	BUILDING E	STAFF RESTROOM	1 GPM	55 °F	99	8.20 kW	208 V	1	60 Hz	0' - 3 9/16"	1' - 1 1/2"	1' - 4 3/16"	16.50 lb	1,2
EWH	3	HUBBELL	R0112S	BUILDING E	STAFF RESTROOM	1 GPM	55 °F	99	8.20 kW	208 V	1	60 Hz	0' - 3 9/16"	1' - 1 1/2"	1' - 4 3/16"	16.50 lb	1,2

1. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) PER MANUFACTURER RECOMMENDATION. SEE SCHEMATIC 10/ MEP61.
2. DISCONNECT SWITCH IS INTEGRAL WITH UNT.

PLUMBING - SPECIALITY SCHEDULE

TAG	DESCRIPTION	MFR	MODEL	STRAINER / COVER	REMARKS
FD-1	FLOOR DRAIN	JAY R. SMITH	2005	9" DIA	ADJUSTABLE STRAINER, VANDAL PROOF SCREWS, NICKEL BRONZE STRAINER
TMV-1	THERMOSTATIC MIXING VALVE	LEONARD	170-LF	-	LEAD-FREE WITH INLET CHECKSTOPS, 0.25 GPM MIN FLOW. INSTALL PER MANUFACTURER'S REQUIREMENTS AT SINK.
TP-1	TRAP SEAL PRIMER	MIFAB	MR-500	-	BRASS BODY WITH INTEGRAL VACUUM BREAKER - PRESSURE DROP OF 3-PSI WILL ACTIVATE ALL OF THE TRAP PRIMERS.

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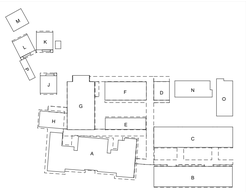
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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

SCHEDULES - PLUMBING

Client Project Number: Client Proj. #

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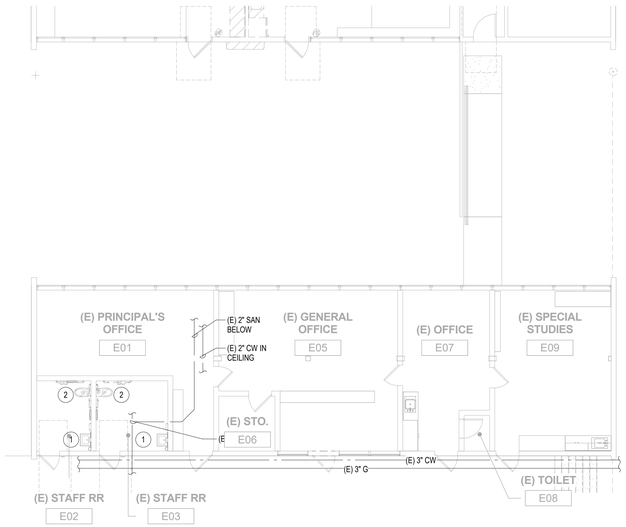
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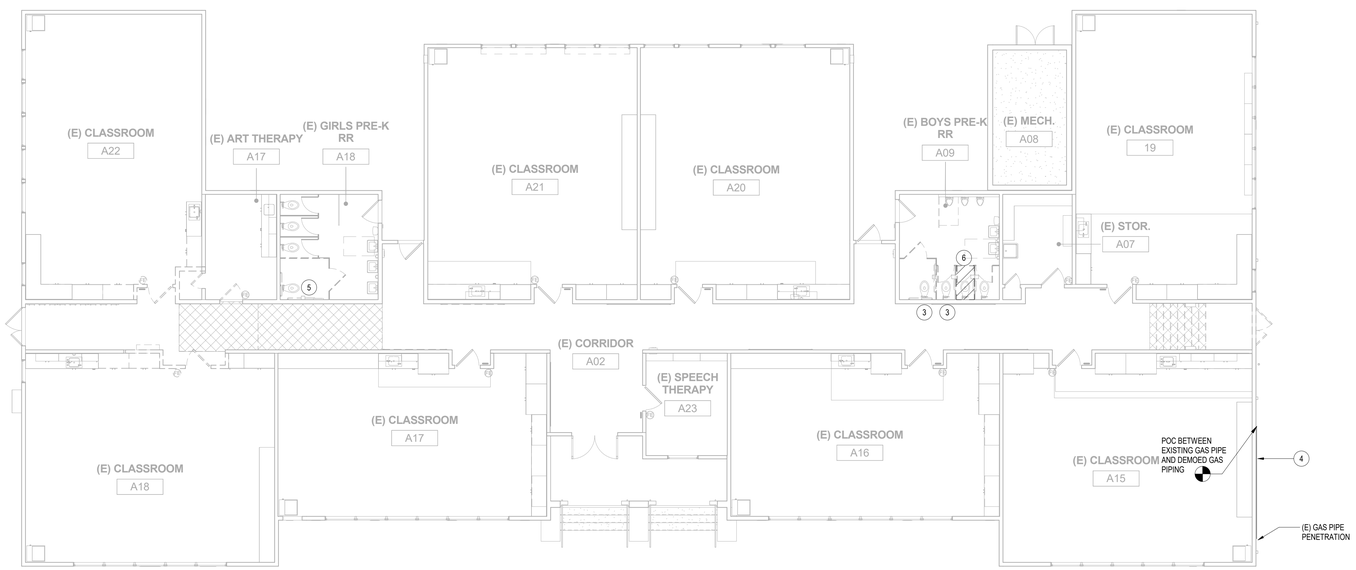
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DEMOLITION FLOOR PLAN - BUILDING E - PLUMBING

2 1/8" = 1'-0"



DEMOLITION FLOOR PLAN - BUILDING A - PLUMBING

1 1/8" = 1'-0"

DEMOLITION GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, PLUMBING EQUIPMENT WITH ARCHITECTURAL, PLUMBING DRAWINGS.

B. AFTER INSTALLATION OF NEW FIXTURES, PIPING, VALVING, GC TO PATCH AND REPAIR ALL WALL/FLOOR SURFACES AND FINISHES TO MATCH SURROUNDING WALL/FLOORS.

C. ALL PLUMBING WORK SHOWN IN DRAWINGS IS DIAGRAMMATICAL ONLY.

D. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULLY FUNCTIONAL PLUMBING SYSTEM BASED ON THE PLUMBING DRAWINGS AND SPECIFICATIONS PROVIDED.

E. PIPING TO BE INSULATED ACCORDING TO CODE PER SPECIFICATIONS.

(#) SHEET NOTES

1. REMOVE EXISTING LAVATORY. CUT BACK ALL UTILITES SERVING LAVATORY (WASTE/VENT/CW) AND REPLACE FOR FUTURE INSTALLATION OF NEW LAVATORY. SEE NEW PLUMBING DWGS.
2. REMOVE EXISTING WATER CLOSET. CUT BACK ALL UTILITES SERVING WATER CLOSET (WASTE/VENT/CW) AND REPLACE FOR FUTURE INSTALLATION OF NEW WATER CLOSET. SEE NEW PLUMBING DWGS.
3. REMOVE AND REINSTALL CUT BACK UTILITIES SERVING WATER CLOSET AND SHIFT EXISTING PIPES TO NEW LOCATIONS FOR FUTURE INSTALLATION OF SAME WATER CLOSET. SEE NEW PLUMBING DWGS.
4. (EXISTING) GAS PENETRATION THROUGH (EXISTING) EXTERIOR WALL. FROM THIS (EXISTING) PENETRATION, GAS IS ROUTED ALONG EXTERIOR WALL UNTIL IT RISES TO BE ROUTED ON TOP OF (EXISTING) OVERHEAD WALKWAY CANOPY. A PORTION OF THIS CANOPY IS TO BE DEMOLISHED AS PART OF THIS PROJECT (SEE ARCH DWGS FOR EXACT LOCATION OF DEMOED CANPOY). REMOVE GAS PIPING ON TO BE REMOVED CANOPY. CAP (EXISTING) GAS PIPE ON EACH END FOR CONNECTION TO (NEW) GAS PIPE SEGMENT
5. REMOVE AND REINSTALL CUT BACK UTILITIES SERVING WATER CLOSET AND REPLACE FOR FUTURE INSTALLATION OF SAME WATER CLOSET. SEE NEW PLUMBING DWGS.
6. REMOVE WATER CLOSET CUT BACK UTILITIES AND CAP.

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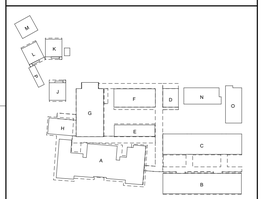
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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

DEMOLITION FLOOR PLANS – BLDGS A & E - PLUMBING

Client Project Number: Client Proj. #

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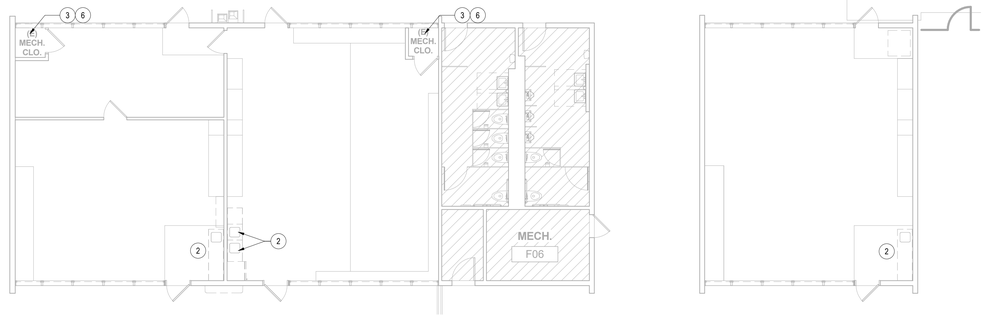
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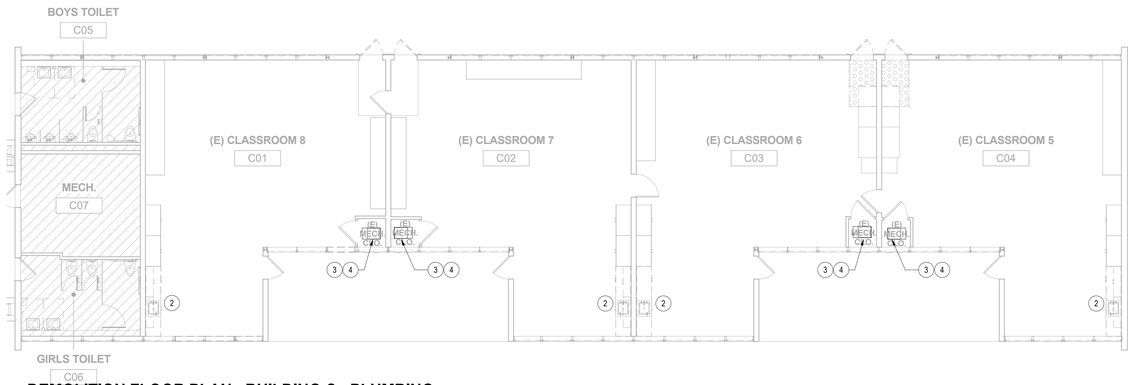
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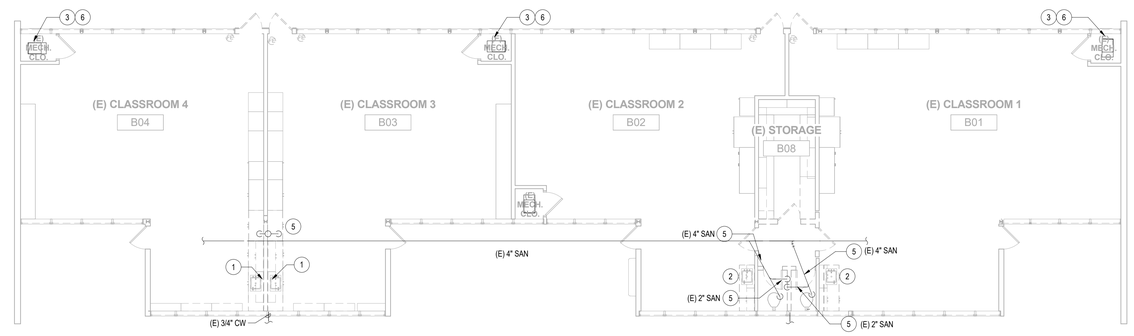
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3 DEMOLITION FLOOR PLAN - BUILDINGS D & F - PLUMBING
1/8" = 1'-0"



2 DEMOLITION FLOOR PLAN - BUILDING C - PLUMBING
1/8" = 1'-0"



1 DEMOLITION FLOOR PLAN - BUILDING B - PLUMBING
1/8" = 1'-0"

DEMOLITION GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, PLUMBING EQUIPMENT WITH ARCHITECTURAL, PLUMBING DRAWINGS.

B. AFTER INSTALLATION OF NEW FIXTURES, PIPING, VALVING, GC TO PATCH AND REPAIR ALL WALL/FLOOR SURFACES AND FINISHES TO MATCH SURROUNDING WALL/FLOORS.

C. ALL PLUMBING WORK SHOWN IN DRAWINGS IS DIAGRAMMATICAL ONLY.

D. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULLY FUNCTIONAL PLUMBING SYSTEM BASED ON THE PLUMBING DRAWINGS AND SPECIFICATIONS PROVIDED.

E. PIPING TO BE INSULATED ACCORDING TO CODE PER SPECIFICATIONS.

(#) SHEET NOTES

1. REMOVE EXISTING SINK. CUT BACK ALL UTILITES SERVING SINK AND CAP.
2. REMOVE EXISTING SINK. CUT BACK ALL UTILITES SERVING SINK (WASTE/VENT/CW) AND REPLACE FOR FUTURE INSTALLATION OF NEW SINKS. SEE NEW PLUMBING DWGS.
3. DISCONNECT GAS FROM FURNACE TO BE REMOVED. RECONNECT GAS TO FURNACES W/ GAS SOV. MODIFY EXISTING GAS PIPING AS REQUIRED FOR REMOVAL OF EXISTING FURNACE AND INSTALLATION OF NEW FURNACE.
4. REMOVE PORTION OF EXISTING PAVING FOR CONDENSATE CONNECTION TO EXISTING SANITARY LINE. S.C.D.
5. REMOVE VENT AND SANITARY PIPING. CUT BACK ALL UTILITIES AND CAP.
6. REMOVE PORTION OF EXISTING PAVING FOR NEW DRY WELL. SEE DETAIL 3 / P.6.01.

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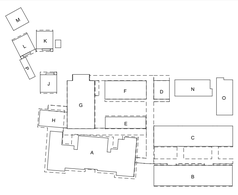
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Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
DEMOLITION FLOOR PLANS – BLDGS B, C, D & F - PLUMBING

Client Project Number: Client Proj. #

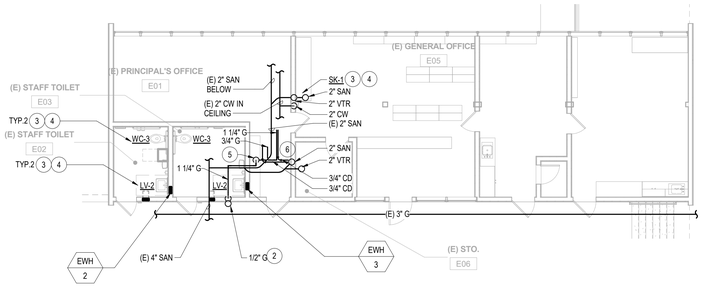
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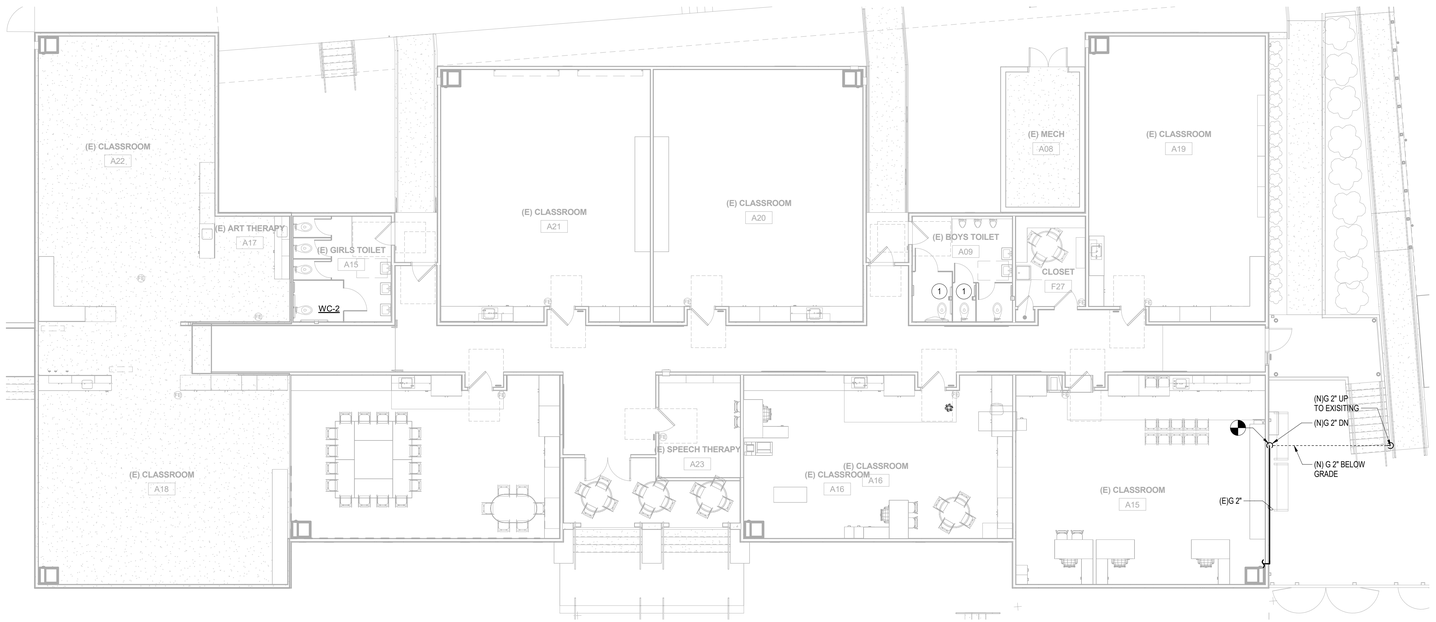
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2 FLOOR PLAN - BUILDING E - PLUMBING

1/8" = 1'-0"



1 FLOOR PLAN - BUILDING A - PLUMBING

1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, PLUMBING EQUIPMENT WITH ARCHITECTURAL, PLUMBING DRAWINGS.

B. AFTER INSTALLATION OF NEW FIXTURES, PIPING, VALVING, GC TO PATCH AND REPAIR ALL WALL/FLOOR SURFACES AND FINISHES TO MATCH SURROUNDING WALL/FLOORS.

C. ALL PLUMBING WORK SHOWN IN DRAWINGS IS DIAGRAMMATICAL ONLY.

D. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULLY FUNCTIONAL PLUMBING SYSTEM BASED ON THE PLUMBING DRAWINGS AND SPECIFICATIONS PROVIDED.

E. ALL PIPING TO BE INSULATED ACCORDING TO CODE PER SPECIFICATIONS.

(#) SHEET NOTES

1. REINSTALL WATER CLOSETS IN NEW LOCATIONS ONE IS TO BE CAPPED, AND THE OTHER TWO WILL SHIFT SLIGHTLY FROM IT'S ORIGINAL POSITION MODIFY AS NEEDED.
2. TIE INTO GAS FROM BELOW GRADE.
3. CONNECT TO EXISTING SANITARY AND VENT PIPING. EXTEND NEW WASTE PIPING BRANCH INTO PLUMBING WALL MODIFY AS NEEDED.
4. EXISTING PIPE TO REMAIN WITH NEW UTILITES TO CONNECT FROM EXISTING TO NEW LOCATION MODIFY AS NEEDED.
5. REMOVE WATER CLOSET OUT BACK UTILITIES AND CAP.
6. REMOVE AND REINSTALL CUT BACK UTILITIES SERVING WATER CLOSET AND REPLACE FOR FUTURE INSTALLATION OF SAME WATER CLOSET. SEE NEW PLUMBING DWGS.

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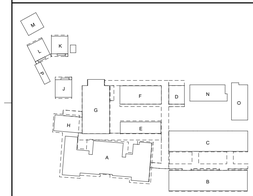
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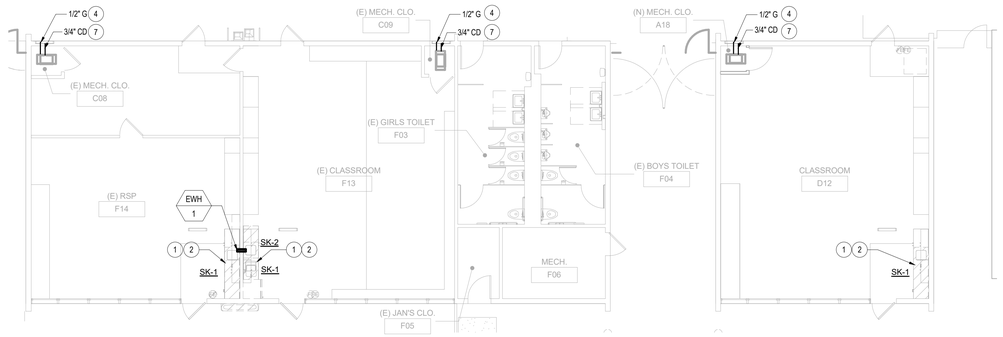
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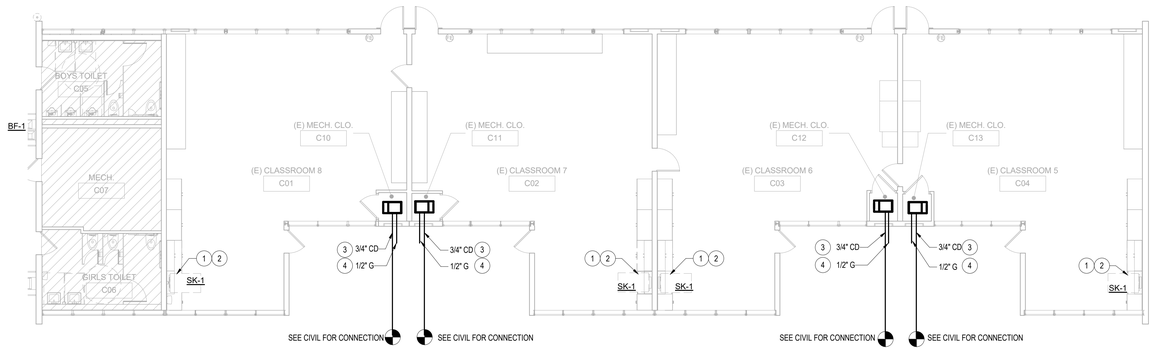
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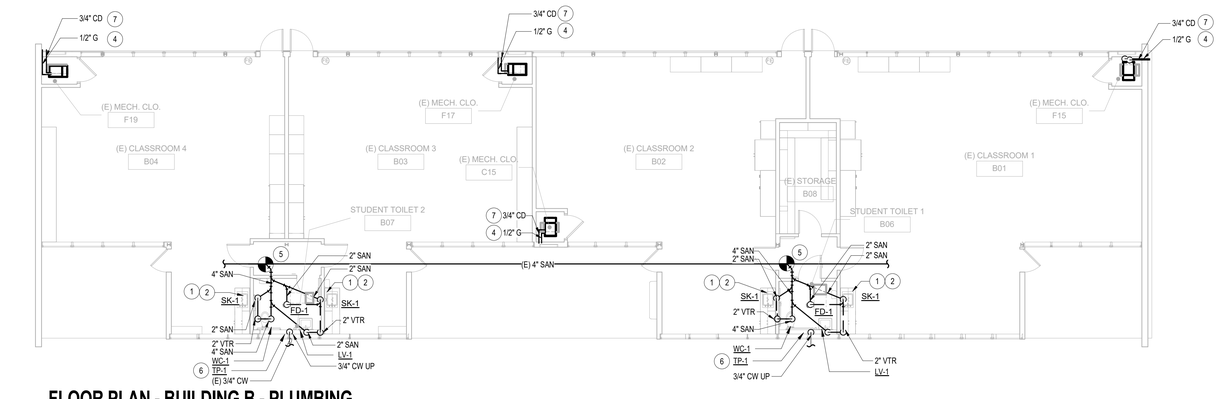
FLOOR PLAN - BUILDINGS D & F - PLUMBING

3 1/8" = 1'-0"



FLOOR PLAN - BUILDING C - PLUMBING

2 1/8" = 1'-0"



FLOOR PLAN - BUILDING B - PLUMBING

1 1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, PLUMBING EQUIPMENT WITH ARCHITECTURAL, PLUMBING DRAWINGS.

B. AFTER INSTALLATION OF NEW FIXTURES, PIPING, VALVING, GC TO PATCH AND REPAIR ALL WALL/FLOOR SURFACES AND FINISHES TO MATCH SURROUNDING WALL/FLOORS.

C. ALL PLUMBING WORK SHOWN IN DRAWINGS IS DIAGRAMMATICAL ONLY.

D. PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULLY FUNCTIONAL PLUMBING SYSTEM BASED ON THE PLUMBING DRAWINGS AND SPECIFICATIONS PROVIDED.

E. ALL PIPING TO BE INSULATED ACCORDING TO CODE PER SPECIFICATIONS.

(#) SHEET NOTES

1. CONNECT TO EXISTING SANITARY AND VENT PIPING. EXTEND NEW WASTE PIPING BRANCH INTO PLUMBING WALL MODIFY AS NEEDED.
2. EXISTING PIPE TO REMAIN WITH NEW UTILITES TO CONNECT FROM EXISTING TO NEW LOCATION MODIFY AS NEEDED.
3. FURNACE CONDENSATE TO CONNECT TO SANITARY LINE. S.C.D.
4. CONNECT GAS LINE TO NEW FURNACE PROVIDE SHUT-OFF VALVE AND DIRT LEG. MODIFY GAS PIPING AS REQUIRED FOR INSTALLATION OF NEW FURNACE.
5. POC TO FIXTURES.
6. PROVIDE TRAP PRIMER AT AT FLOOR DRAINS. SEE DETAIL 5/P6.01.
7. FURNACE CONDENSATE TO DRY WELL. REFER TO PLUMBING DETAILS 3/P6.01.

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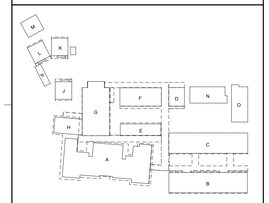
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HY Architects Project number: Project Number

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35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

OVERALL FLOOR PLANS – BLDGS B, C, D & F - PLUMBING

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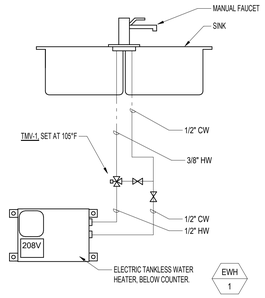
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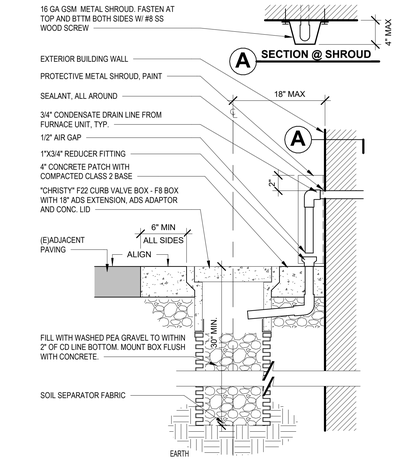
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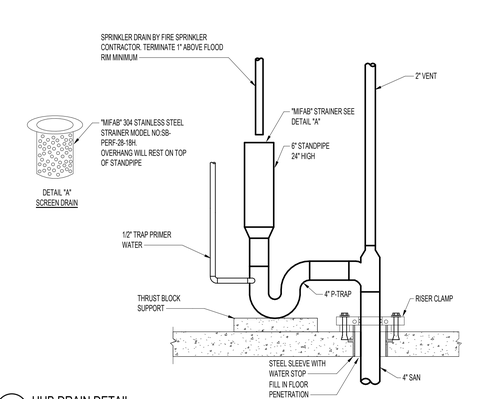


C. SINK

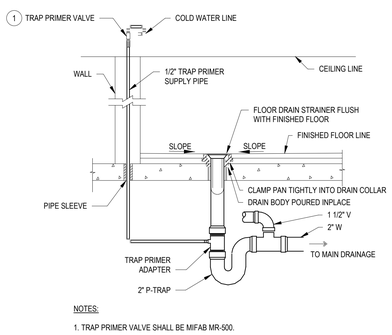
6 ELECTRIC TANKLESS WATER HEATER INSTALLATION
N.T.S.



3 DRY WELL
N.T.S.

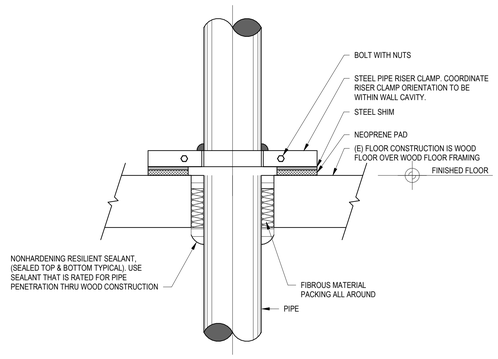


8 HUB DRAIN DETAIL
N.T.S.

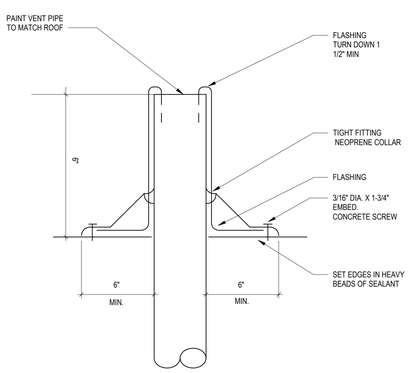


NOTES:
1. TRAP PRIMER VALVE SHALL BE MIFAB MR-500.

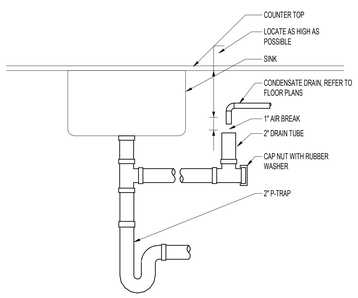
5 FLOOR DRAIN W/ TRAP PRIMER & VENT
N.T.S.



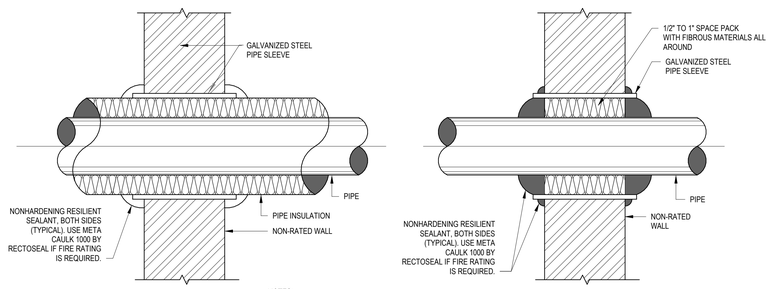
2 PIPE FLOOR PENETRATION
N.T.S.



7 VENT THRU ROOF
N.T.S.



4 SINK CONDENSATE CONNECTION
N.T.S.



NOTES:
1. INSTALL FIRE STOPPING MATERIAL PER MANUFACTURER'S DETAIL.

1 PIPE PENETRATION THRU WALL
N.T.S.

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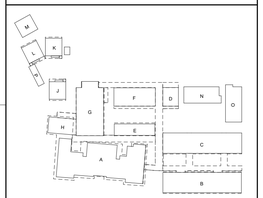
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MARTIN ELEMENTARY SCHOOL MODERNIZATION

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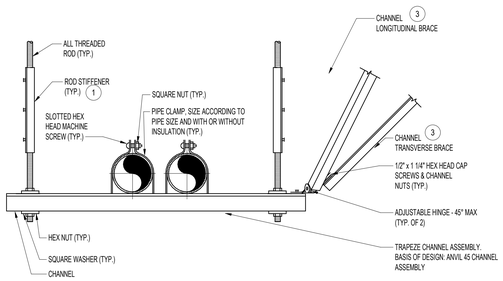
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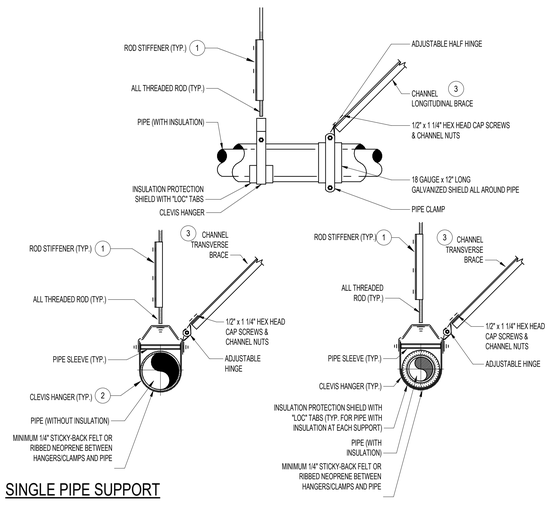
0 5' 50' | 0 5' 25' | 0 1' 12' | 0 1' 6' | 0 4' | 0 1' 3' | 0 2' | 0 1'

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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MULTIPLE PIPE SUPPORT



SINGLE PIPE SUPPORT

NOTES:

1. COMPLY WITH 2013 CBC.
2. BRACE ALL PIPING AND EQUIPMENT TRANSVERSELY AND LONGITUDINALLY ACCORDING TO SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PIPING SYSTEMS.
3. ALL PIPE SUPPORTS SHALL BE PIPING TECHNOLOGY & PRODUCTS, INC. OR EQUAL.
4. PROVIDE TRANSVERSE SEISMIC BRACING AT 20'-0" MAXIMUM AND AT EVERY CHANGE OF DIRECTION.
5. PROVIDE LONGITUDINAL SEISMIC BRACING AT 40'-0" O.C. MAXIMUM, MINIMUM OF 2 REQUIRED.
6. REFER TO RELEVANT ATTACHMENT DETAILS AND STRUCTURAL FOR CONTINUATION.

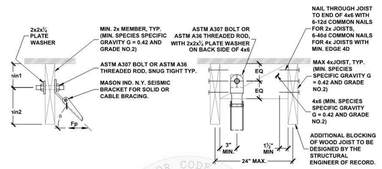
(#) SHEET NOTES:

1. INSTALL ROD STIFFENER WHEN LEGNTH EXCEEDS THE SCHEDULE LENGTH

MAX. PIPE SIZE, IN.	ROD SIZE, IN.	MAX. ROD LENGTH, IN.
1/2 UP TO 2	3/8	19
3	1/2	25

2. PROVIDE NONETALLIC SEPARATION BETWEEN UNINSULATED COPPER PIPING AND METAL SUPPORTS. PLASTIC COATED OR FELT LINED CLEVIS HANGER, PLASTIC COATED PIPE CLAMP.
3. SPACE PIPE HANGERS AND SUPPORTS PER MECHANICAL SPECIFICATION.

4 TYPICAL SINGLE AND TRAPEZE PIPE SUPPORT DSA DETAIL
N.T.S.



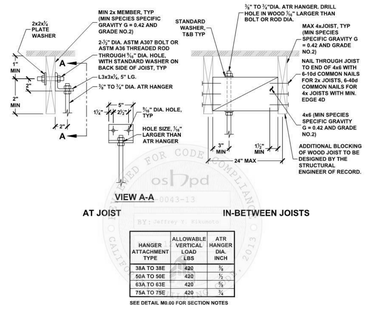
SEISMIC BRACE BRACKET PERPENDICULAR TO JOIST

SEISMIC BRACE BRACKET PARALLEL TO JOIST

BRACE BRACKET ATTACHMENT TYPE	ALLOWABLE LATERAL LOAD Fp LBS	MAX BRACE RANGE °	ASTM A307 BOLTS OR ASTM A36 THREADED ROD		
			DIA. da INCH	MIN. EDGE Cmin1 INCH	MIN. EDGE Cmin2 INCH
30A TO 30D	250	30°- 45°	¾	1½	1½
36A TO 36B	150	46°- 60°			
50A TO 50D	300	30°- 45°	⅞	1½	2
50A TO 50B	170	46°- 60°			
63A TO 63D	340	30°- 45°	⅞	1½	2½
63A TO 63C	200	46°- 60°			

SEE DETAIL M5.00 FOR SECTION NOTES

3 SEISMIC BRACKET ATTACHMENT TO STRUCTRAL TIMBER
N.T.S.



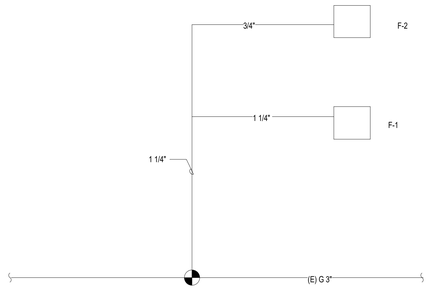
VIEW A-A

AT JOIST IN-BETWEEN JOISTS

HANGER ATTACHMENT TYPE	ALLOWABLE VERTICAL LOAD LBS	ATR HANGER DIA. INCH
30A TO 36B	630	⅝
50A TO 50E	420	⅝
63A TO 63E	420	⅝
75A TO 75E	420	¾

SEE DETAIL M5.00 FOR SECTION NOTES

2 HANGER ATTACHMENT TO WOOD JOIST
N.T.S.



GENERAL NOTES
1. SIZED USING LONGEST LENGTH METHOD PER CPC 2016 CHAPTER 12.
2. LONGEST LENGTH IS FROM GAS METER TO THE FARTHEST FURNACE. (500')
3. 50% ADDITIONAL LENGTH ADDED TO ACCOUNT FOR FITTING LOSS.

GAS LOADS
(2) GAS FURNACE: F-10,F-11

F-10: 25 MBH
F-11: 78 MBH

TOTAL LOAD: 103 MBH

ASSUME 1 CFH = 1 MBH

SIZING REQUIRMENTS
EQUIVALENT LENGTH OF RUN TO MOST REMOTE FIXTURE: 500' X 1.5 =750'

PER CPC 2016, TABLE 1216.2(1):
LESS THAN 2 PSI, 0.5 IN W.C. PRESSURE DROP, SCH40 METALLIC PIPE, SPECIFIC GRAVITY 0.60.

MAXIMUM CAPACITY OF 1 1/2" PIPE @ 800' = 195 MBH
MAXIMUM CAPACITY OF 1 1/4" PIPE @ 800' = 130 MBH
MAXIMUM CAPACITY OF 1" PIPE @ 800' = 63 MBH
MAXIMUM CAPACITY OF 3/4" PIPE @ 800' = 34 MBH

1 GAS RISER DIAGRAM
N.T.S.

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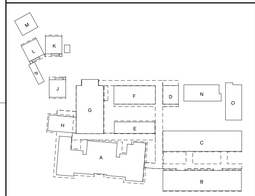
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ELECTRICAL SYMBOLS AND LEGEND

EXISTING / DEMOLITION

- EXISTING EQUIPMENT / RACEWAYS TO REMAIN
- EXISTING EQUIPMENT / RACEWAYS TO BE REMOVED
- NEW EQUIPMENT / RACEWAYS
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW EQUIPMENT, LIGHTING FIXTURE OR DEVICE

SINGLE LINE DIAGRAM

- TRANSFORMER , AS NOTED ON SINGLE LINE DIAGRAM
- ISOLATION TRANSFORMER , AS NOTED ON SINGLE LINE DIAGRAM
- CIRCUIT BREAKER, 3 POLE UNLESS NOTED OTHERWISE
- MOTOR STARTER WITH OVERCURRENT PROTECTION, 3 POLE UNLESS NOTED OTHERWISE
- MOTOR STARTER WITH FUSED AND DISCONNECT SWITCH, 3 POLE UNLESS NOTED OTHERWISE
- GROUND FAULT RELAY
- SHUNT TRIP RELAY
- DRAW-OUT CIRCUIT BREAKER
- NON-FUSED DISCONNECT SWITCH, 30 AMP, 3P UNLESS NOTED OTHERWISE
- FUSED DISCONNECT SWITCH, 3 POLE UNLESS NOTED OTHERWISE
- DEMAND TYPE KWH METER
- DEMAND TYPE KWH METER WITH ENCLOSURE
- PROVISION FOR UTILITY COMPANY KWH METER
- CURENT TRANSFORMER (CT)
- AMMETER
- ELECTRONIC METER
- SEPARABLE CONNECTOR(S)
- GROUND

RECEPTACLES / POWER

FLOOR	WALL	CEILING	
	(18)		MULTI-OUTLET RACEWAY WITH PREWIRED RECEPTACLES MOUNTED 12" ON CENTER UNLESS OTHERWISE NOTED. NUMBER IN (X) PARENTHESIS INDICATES DISTANCE BETWEEN DEVICES. WHERE MULTIPLE CIRCUITS ARE INDICATED CIRCUITS ALTERNATE ALONG ENTIRE LENGTH OF RACEWAY
			SIMPLEX RECEPTACLES
			SIMPLEX RECEPTACLES POKE THRU
			DUPLEX RECEPTACLES
			DUPLEX RECEPTACLES POKE THRU
			QUADRUPLEX RECEPTACLES
			QUADRUPLEX RECEPTACLES POKE THRU
X	X	X	SPECIAL RECEPTACLES (DUPLEX & QUADRUPLEX), REFER TO SPECIAL RECEPTACLE SCHEDULE, THIS SHEET
X	X	X	
			GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLES
			COUNTER RECEPTACLES. INSTALL ABOVE COUNTER OR DEFINED HEIGHT
			CONTROLLED DUPLEX
			CONTROLLED DUPLEX POKE THRU
			CONTROLLED QUADRUPLEX
			CONTROLLED QUADRUPLEX POKE THRU
			SWITCHED RECEPTACLES
			CLOCK TYPE RECESSED RECEPTACLES
J	J	J	JUNCTION BOX 4" SQUARE MINIMUM FOR WALL OR CEILING MOUNTED
	J	J	JUNCTION BOX SIZE AS REQUIRED FOR NUMBER OF WIRES OR RACEWAYS
P	P	P	SYSTEM FURNITURE POWER FEED. REFER TO DETAIL FOR RACEWAY AND BOX REQUIREMENTS

NOTE: ALL RECEPTACLE OUTLETS ON WALLS ARE MOUNTED AT 18" AFF, UON.

LETTER	RATING	NEMA	SPECIAL RECEPTACLE DESCRIPTION SCHEDULE NOTE: NUMBER OF WIRES INCLUDE GROUND
A	125V, 1Ø, 30A, 2P, 3W	5-30R	WITH 5-30P PLUG
B	125V, 1Ø, 50A, 2P, 3W 125/250V,	5-50R	WITH 5-50P PLUG
D	1Ø, 20A, 3P, 4W	14-20R	WITH 14-20P PLUG
F	125/250V, 1Ø, 30A, 3P, 4W	14-30R	WITH 14-30P PLUG
J	250V, 1Ø, 20A, 2P, 3W	6-20R	WITH 6-20P PLUG
K	250V, 1Ø, 30A, 2P, 3W	6-30R	WITH 6-30P PLUG
L	-	-	'L' INDICATES ASSOCIATED RECEPTACLE IS LOCKING TYPE. PROVIDE MATCHING PLUG FOR EACH RECEPTACLE
M	250V, 1Ø, 50A, 2P, 3W	6-50R	WITH 6-50P PLUG
N	250V, 3Ø, 20A, 3P, 4W	15-20R	WITH 15-20P PLUG
P	250V, 3Ø, 30A, 3P, 4W	15-30R	WITH 15-30P PLUG
R	250V, 3Ø, 50A, 3P, 4W	15-50R	WITH 15-50P PLUG
S	480V, 3Ø, 30A, 3P, 4W	L15-30R	WITH L15-30P PLUG
T	125V, 1Ø, 20A, 2P, 3W	5-20R	ISOLATED GROUND WITH INTEGRAL TRANSIENT SUPPRESSER AND DEDICATED GREEN/YELLOW CONDUCTOR BACK TO GROUND BUS AT PANEL DEDICATED CIRCUIT
Z	125V, 1Ø, 20A, 2P, 3W	5-20R	WITH L16-20R PLUG
X	480V, 3Ø, 20A, 3P, 4W	L16-20R	

LIGHTING

WALL	CEILING	
		RECESSED MOUNTED TROFFER
		SURFACE MOUNTED TROFFER
		SUSPENDED OR PENDANT MOUNTED LUMINAIRE
		STRIP OR TRACK LIGHT (EMERGENCY)
		SURFACE MOUNTED DOWNLIGHT
		RECESSED MOUNTED DOWNLIGHT
		PENDANT MOUNTED DOWNLIGHT
		WALL MOUNTED LUMINAIRE
		DIRECTIONAL LUMINAIRE
		EMERGENCY
		POLE MOUNT FIXTURES (1, 2, 3, 4 HEADS)
EXIT		
		EXIT SIGN: SHADED PORTION INDICATES ILLUMINATED FACE. DIRECTIONAL ARROWS AS INDICATED ON PLANS. PROVIDE MASTER/SLAVE HIGH AND LOW LEVEL EXIT SIGNS WHEREVER AN EXIT SIGN IS INDICATED ON PLANS
TRACK		
LED		
MULTIPLES		
UNDERWATER		

NOTES:
A. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING FIXTURE TYPE AND MOUNTING CONDITIONS REGARDLESS OF SYMBOL USED ON PLANS.
B. REFER TO FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION, MOUNTING AND LAMP INFORMATION. SHADED FIXTURE SYMBOLS INDICATE FIXTURE IS CONNECTED TO THE LIFE SAFETY SYSTEM OR HAS SECONDARY POWER SOURCE.

EXAMPLES: NORMAL | EMERGENCY | NORMAL | EMERGENCY

LUMINAIRE NOMENCLATURE: A 3,a,z1

"A" DENOTES FIXTURE TYPE
"3" DENOTES CIRCUIT NUMBER
"a" DENOTES SWITCH ZONE
"z1" DENOTES DAYLIGHT ZONE
"rr" DENOTES SITE RELAY ZONE

SWITCHING

WALL	CEILING	
SM		MANUAL MOTOR STARTER WITH THERMAL OVERLOAD NUMBER OF POLES AS REQUIRED
Sx		SWITCH, SUBSCRIPT INDICATES: X = NONE - SINGLE POLE X = 3 - THREE WAY X = A,B,C - OUTLET CONTROLLED X = 2 - DOUBLE POLE X = KP - KEY OPERATED WITH PILOT LIGHT X = P - PILOT LIGHT X = R - MOMENTARY RELAY ON/OFF
Sab		2-SINGLE POLE SWITCHES, UNDER COMMON PLATE, +42" UON
Sabc		3-SINGLE POLE SWITCHES, UNDER COMMON PLATE, +42" UON
X33		LOW VOLTAGE LIGHTING CONTROL. NUMBER IN ELONGATED HEXAGON INDICATES CONTROL IDENTIFICATION. REFER TO SEQUENCE OF OPERATIONS AND LIGHTING CONTROL DETAILS FOR ADDITIONAL INFORMATION
SLabc		
SLX		LOW VOLTAGE LIGHTING CONTROL SUBSCRIPT INDICATES: X = D - DIMMER SWITCH X = S - SENSOR SWITCH X = T - TIMER SWITCH X = M - LOW VOLTAGE MASTER CONTROL SWITCH
		DIMMER WITH INTEGRAL SWITCH, +42" UON. '600' INDICATES RATING IN WATTS
		ROOM TYPE OCCUPANCY SENSOR, ARROW INDICATES DIRECTION OR ORIENTATION, SUBSCRIPT INDICATES SWITCH LEG OR CIRCUIT TO BE CONTROLLED
		ROOM TYPE OCCUPANCY SENSOR, ARROW INDICATES DIRECTION OR ORIENTATION, SUBSCRIPT INDICATES SWITCH LEG OR CIRCUIT TO BE CONTROLLED
		CORRIDOR TYPE OCCUPANCY SENSOR, ARROW INDICATES DIRECTION OR ORIENTATION, SUBSCRIPT INDICATES SWITCH LEG OR CIRCUIT TO BE CONTROLLED
X		SENSOR TYPE SUBSCRIPT INDICATES: X = DT - DUAL TECHNOLOGY X = H - HALLWAY X = HB - HIGH BAY X = IR - PASSIVE INFRARED X = US - ULTRASONIC
X		
		PUSH-BUTTON STATION, +42" UON
		PHOTOSENSOR - WALL MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION
		PHOTOSENSOR - CEILING MOUNT WITH DIRECTIONAL VIEW. ARROW INDICATES AIMING DIRECTION
		PHOTOSENSOR - CEILING MOUNT WITH 360 VIEW

GENERAL ELECTRICAL SYMBOLS

RECESSED	SURFACE	
		DISCONNECT SWITCH, 3 POLE 30 AMP MINIMUM UNLESS NOTED OTHERWISE
		FUSED DISCONNECT SWITCH, 3 POLE 30 AMP MINIMUM UNLESS NOTED OTHERWISE
		COMBINATION DISCONNECT SWITCH MOTOR STARTED
		MOTOR, 5 HP INDICATED
	T	TRANSFORMER
		RELAY OR EQUIPMENT CABINET AS INDICATED ON PLAN
		LIGHTING OR POWER PANEL BOARD

- FREE STANDING SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD
- FIRE TREATED PLYWOOD BACKBOARD 3/4"X96" HIGH X LENGTH AS INDICATED
- EEE — ELECTRICAL EQUIPMENT DESIGNATION DESIGNED "EQ01"
- 1 — REFERENCE TO NOTE "1" ON SAME SHEET
- FA — LIGHTING FIXTURE DESIGNATION FA = FIXTURE TYPE
- P 1 — MECHANICAL EQUIPMENT DESIGNATION "P-1" INDICATED
- X33 — EQUIPMENT NAME OR NUMBER
- +4'-6" — MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR EQUIPMENT
- MH=4'-6" — MOUNTING HEIGHT FROM FINISHED FLOOR TO BOTTOM OF OUTLET OR EQUIPMENT
- 1 / E-6 — DETAIL REFERENCE NUMBER "1" ON DRAWING "E-6"
- A / E-6 — SECTION OR ELEVATION REFERENCE LETTER "A" ON DRAWING "E-6"
- A-1,3,5 — INDICATES HOMERUN WITH THREE CIRCUITS AND A SEPARATE NEUTRALS

GROUNDING SYSTEM

FLOOR	WALL	
		GROUND PLATE, FLAT TAPPED SIDE TO BE FLUSH WITH FURNISHED SURFACE. CADWELD B/64-2Q OR EQUIVALENT
G	G	GROUND BUS
TG	TG	TECHNICAL GROUND BUS
		GROUND ROD
		GROUND ROD TEST WELL
		EXOTHERMIC GROUND CONNECTION
	G	GROUND WIRE

SECURITY DEVICES

FLOOR	WALL	CEILING	
			WALL MOUNTED SECURITY MOTION DETECTOR
			WALL MOUNTED SECURITY ALARM DOOR CONTACT

PUBLIC ADDRESS DEVICES

FLOOR	WALL	CEILING	
	C S		COMBINATION PA CLOCK AND SPEAKER UNIT. PROVIDE ONE CAT6 CABLE.

TELECOMMUNICATIONS

FLOOR	WALL	CEILING	
			1" TELEPHONE / DATA CONDUIT
			1½" TELEPHONE / DATA CONDUIT
			1½" TELEPHONE / DATA CONDUIT
			2" TELEPHONE / DATA CONDUIT
	(18)		MULTI-OUTLET RACEWAY WITH PROVISIONS FOR COMMUNICATIONS RECEPTACLES MOUNTED ON 12" CENTER UNLESS OTHERWISE NOTED. NUMBER IN (X) PARENTHESIS INDICATES DISTANCE BETWEEN DEVICES
		(2)	COMBINATION TELEPHONE DATA OUTLET. PROVIDE 1¼"CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. PARENTHESIS INDICATES NUMBER OF CABLE.
		WAP	TELEPHONE DATA OUTLET FOR WIRELESS ACCESS POINT. PROVIDE ONE CAT6 CABLE.
		(2)	DATA OUTLET, PROVIDE 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. PARENTHESIS INDICATES NUMBER OF CABLE.
		(2)	TELEPHONE OUTLET, PROVIDE 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. 1" CONDUIT TO CLOSEST TERMINAL POINT WITHOUT INTERMEDIATE BOXES. PARENTHESIS INDICATES NUMBER OF CABLE.
T	T	T	SYSTEM FURNITURE COMBINATION TELEPHONE DATA FEED, REFER TO DETAILS FOR RACEWAY AND BOX REQUIREMENTS
	(2)		WALL MOUNTED DATA DEVICES AT +48", UON. PARENTHESIS INDICATES NUMBER OF CABLES.

RACEWAYS AND WIRING

FLOOR	WALL	CEILING	
			CONDUIT CONCEALED IN CEILING OR WALL SPACE
			CONDUIT RUN EXPOSED
			CONDUIT RUN UNDERGROUND OR CONCEALED IN FLOOR SPACE
			EXISTING CONDUIT TO REMAIN
			CONDUIT RISING UP FROM RUN
			CONDUIT DROPPING DOWN FROM RUN
			CONDUIT CONTINUATION
			CONDUIT CAP
A-1	A-1	A-1	HOMERUN TO PANELBOARD, CABINET OR TERMINAL BACKBOARD AS INDICATED
(MS-01)	(MS-01)	(MS-01)	HOMERUN TO SWITCHBOARD OR MCC AS INDICATED. REFER TO SINGLE LINE DIAGRAM FOR CONDUIT AND WIRE SIZES
<RA-1>	<RA-1>	<RA-1>	HOMERUN TO PANEL VIA INDICATED LIGHTING CONTROL RELAY CABINET. REFER TO INDICATED RELAY CABINET SCHEDULE FOR ADDITIONAL INFORMATION AND CONTROL REQUIREMENTS

ELECTRICAL GENERAL NOTES

A. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. OBTAIN CONTRACT DOCUMENTS FOR ALL OTHER TRADES AND BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON THE CONTRACT DOCUMENTS. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES ON PROJECT. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANEL LOCATIONS WITH ALL OTHER WORK TO AVOID CONFLICTS.

B. COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. AND CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED AND LABELED FOR THE APPLICATION.

C. BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL INDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.

D. OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK, UNLESS OTHERWISE NOTED.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.

F. MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.

G. ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.

H. PROVIDE ALL REQUIRED CUTTING, PATCHING, BACK FILL AND REPAIRS NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.

I. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUIT RUNS INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING, UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS

J. ALL CONDUITS SHALL BE A MINIMUM 3/4", UNLESS OTHERWISE NOTED. POWER AND LIGHTING BRANCH CIRCUITS SHALL HAVE A MINIMUM TWO (2) #12 AWG AND ONE (1) #12 AWG GROUND TYPE THWN/THHN. ALL POWER AND FIRE ALARM WIRING SHALL BE RUN IN CONDUIT. THE USE OF ROMEX (NMC) OR BX (AC) CABLE IS NOT PERMITTED. PROVIDE ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODES.

K. CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR, SIZED PER CEC REQUIREMENTS.

L. THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

M. NOTE THAT BRANCH CIRCUIT WIRING IS NOT SHOWN. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO ALL OUTLETS/FIXTURES/DEVICES. PROVIDE ALL BRANCH CIRCUIT WIRING BASED ON CIRCUIT NUMBERS SHOWN TO COMPLETE THE WIRING SYSTEM.

N. THE CONTRACTOR SHALL, PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR MODIFYING THE EXISTING CATV, DATA, TELEPHONE, CLOCK AND INTERCOM SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. PROVIDE ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF PROJECT WORK.

O. PROVIDE A PULL CORD IN EVERY EMPTY CONDUIT FOR USE IN FUTURE CONSTRUCTION.

P. VERIFY ALL VOLTAGES OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

Q. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN THE AREA OF UNDER GROUND WORK. REPAIR ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. MAINTAIN EXTREME CARE DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN THE AREA. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. COORDINATE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL WORK.

R. CONDUIT AND WIRING ARE SHOWN ON THESE PLANS DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.

S. SEISMIC ANCHORAGE OF ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH TITLE 24, CBC SECTION 1616A.

T. PLANS SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE.

U. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE OPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC ARTICLE 110-16.

V. THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT WERE PREPARED BY THE DESIGN TEAM USING 3-D MODELING SOFTWARE. USING THIS SOFTWARE BY THE DESIGN TEAM DOES NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE NECESSARY COORDINATION TO PROVIDE COMPLETE, CODE COMPLIANT AND OPERATIONAL BUILDING SYSTEMS. THE PLANS AND SECTIONS PROVIDED ARE NOT COMPLETE AND ARE TO BE CONSIDERED DIAGRAMMATIC ONLY. THE EXACT LOCATION OF THE PIPING, DUCTWORK, ELECTRICAL AND SUPPORT COMPONENTS ARE TO BE DETERMINED IN THE FIELD. ALL BUILDING SECTIONS AND DETAILS PROVIDED ARE FOR INFORMATION ONLY AND DO NOT RELIEVE THE CONTRACTOR FROM PERFORMING FINAL COORDINATION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES.

W. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE LOCATION OF OUTLETS AND EQUIPMENT THOUGH NOT NECESSARILY INDICATING THE ACTUAL ROUTES OF CONDUITS, THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS PROPER COORDINATION WITH THE WORK OF OTHER TRADES AND SPACE WILL PERMIT. SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE FOR VISUAL AND STRUCTURAL REASONS. IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, BENDS, PULL BOXES AND OBSTRUCTIONS. THE DRAWINGS ARE NOT INTENDED TO BE SCALED AND THE CONTRACTOR SHALL REFER TO THE GENERAL CONSTRUCTION DRAWINGS FOR DIMENSIONS.

X. CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL SERVICE FOR CONSTRUCTION POWER AND ILLUMINATION FOR ALL TRADES. ALL COSTS OF LABOR AND COST MATERIAL REQUIRED FOR THE TEMPORARY ELECTRICAL SERVICE SHALL BE INCLUDED IN THE ELECTRICAL CONTRACT.

Y. CONTRACTOR SHALL TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY, GROUNDS, SHORT CIRCUITS, AND OTHER DEFECTS BEFORE ANY EQUIPMENT OR FIXTURES ARE CONNECTED THERETO. CABLES SHALL BE CHECKED FOR CONTINUITY, SHORTS, INSULATION RESISTANCE, AND PROPER PHASING.

Z. MINIMUM SIZE FOR EXTERIOR BELOW GRADE CONDUIT SHALL BE 1-1/4 INCH.

AA. FOR 120V, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE EXCEEDS 75 FEET, PROVIDE #10 SIZE CONDUCTOR.

AB. LABEL ALL RECEPTACLES, J-BOXES, DISCONNECT SWITCHES AND CONTROL DEVICES WITH THEIR SERVING CIRCUIT NUMBERS. LABELS SHALL BE PER THE SPECIFICATION.

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 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 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 THE ATTACHMENT 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 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 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 SYSTEM BRACING NOTE

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 2013 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 (OPA#).

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 SYSTEM.

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

DRAWING LIST

SHEET NUMBER	SHEET NAME
E0.01	LEGEND, ABBREVIATIONS, AND GENERAL NOTES - ELECTRICAL
E0.02	EQUIPMENT SCHEDULE
E0.03	LIGHTING SCHEDULES
E1.01	SITE PLAN - ELECTRICAL
E02.01	DEMOLITION FLOOR PLANS – BLDGS A & E - ELECTRICAL
E02.02	DEMOLITION FLOOR PLANS – BLDGS B, C, D & F - ELECTRICAL
E2.01	OVERALL FLOOR PLANS – BLDGS A & E - LIGHTING
E3.01	OVERALL FLOOR PLANS – BLDGS A & E - POWER
E3.02	OVERALL FLOOR PLANS – BLDGS B, C, D & F - ELECTRICAL
E5.01	SINGLE LINE DIAGRAM - ELECTRICAL
E6.01	DETAILS - ELECTRICAL
E6.02	DETAILS - ELECTRICAL

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Revisions

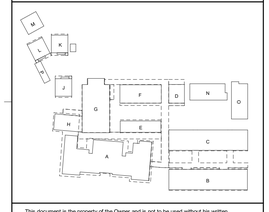
No.	Revisions	By	Date	Appr.

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03/11/2019

DSA APPROVAL

IDENTIFICATION STAMP
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DATE ____

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Exp. 6-30-20
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STATE OF CALIFORNIA

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HY Architects Project number: Project Number

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35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

LEGEND, ABBREVIATIONS, AND GENERAL NOTES - ELECTRICAL

Client Project Number: Client Proj. #

Scale: 12" = 1'-0"
Drawn By: Integral Group
Checked By: Integral Group
Issue Date: 03/11/19
Revit Version: 2017

Sheet
E0.01

3/7/2019 9:19:08 AM C:\Users\jlomito\Documents\IGAMEP-MARTIN ES-R17_jlomitoUSWOAK.rvt

0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"

0 5' 25' 1/8" = 1'-0"

0 1' 12' 1/4" = 1'-0"

0 1' 6' 1/2" = 1'-0"

0 4' 3/4" = 1'-0"

0 1' 3' 1" = 1'-0"

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

0 1' 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

Equipment Schedule

Tag	Description	Location	Equipment Type	Voltage	Phase	Current	Power (HP)	Power (kVA)	Branch Circuit			Conductors			Remote Disconnect		Connection	Control Wiring Required	Fused Disconnect Switch	Lockout Toggle Switch
									Panel and Circuit No.	Trip Rating	Poles	(QTY) Size	Ground Size	Conduit Size	Type	Rating (A)				
EWH-1	Plumbing Electrical Water Heater	F14	Appliance	208 V	1 ϕ	40.0 A	11.1	8.3 kVA		60	2	(2) #8	#10	1/2"					E	
EWH-2	Plumbing Electrical Water Heater	E02	Appliance	208 V	1 ϕ	40.0 A	11.1	8.3 kVA		60	2	(2) #8	#10	1/2"					E	
EWH-3	Plumbing Electrical Water Heater	E03	Appliance	208 V	1 ϕ	40.0 A	11.1	8.3 kVA		60	2	(2) #8	#10	1/2"					E	
F-12	Mechanical Furnace	F15	Appliance	120 V	1 ϕ	5.0 A	0.8	0.6 kVA		15	1	(2) #12	#12	1/2"				M		E
F-13	Mechanical Furnace	C15	Appliance	120 V	1 ϕ	3.3 A	0.5	0.4 kVA		15	1	(2) #12	#12	1/2"				M		E
F-14	Mechanical Furnace	F17	Appliance	120 V	1 ϕ	3.3 A	0.5	0.4 kVA		15	1	(2) #12	#12	1/2"				M		E
F-15	Mechanical Furnace	F19	Appliance	120 V	1 ϕ	3.3 A	0.5	0.4 kVA		15	1	(2) #12	#12	1/2"				M		E
F-16	Mechanical Furnace	C13	Appliance	120 V	1 ϕ	3.3 A	0.5	0.4 kVA		15	1	(2) #12	#12	1/2"				M		E
F-17	Mechanical Furnace	C12	Appliance	120 V	1 ϕ	3.3 A	0.5	0.4 kVA		15	1	(2) #12	#12	1/2"				M		E
F-18	Mechanical Furnace	C11	Appliance	120 V	1 ϕ	3.3 A	0.5	0.4 kVA		15	1	(2) #12	#12	1/2"				M		E
F-19	Mechanical Furnace	C10	Appliance	120 V	1 ϕ	3.3 A	0.5	0.4 kVA		15	1	(2) #12	#12	1/2"				M		E
F-20	Mechanical Furnace	C09	Appliance	120 V	1 ϕ	3.3 A	0.5	0.4 kVA		15	1	(2) #12	#12	1/2"				M		E
F-21	Mechanical Furnace	C08	Appliance	120 V	1 ϕ	3.3 A	0.5	0.4 kVA		15	1	(2) #12	#12	1/2"				M		E
F-22	Mechanical Furnace	A18	Appliance	120 V	1 ϕ	3.3 A	0.5	0.4 kVA		15	1	(2) #12	#12	1/2"				M		E
EF-2	Mechanical Exhaust Fan	E02	Appliance	120 V	1 ϕ	0.8 A	0.1	0.1 kVA		15	1	(2) #12	#12	1/2"				M		E
EF-3	Mechanical Exhaust Fan	B07	Appliance	120 V	1 ϕ	0.8 A	0.1	0.1 kVA		15	1	(2) #12	#12	1/2"				M		E
EH-1	Mechanical Electric Heater	E02	Appliance	120 V	1 ϕ	12.5 A	2.0	1.5 kVA		20	1	(2) #12	#12	1/2"				M		E
EH-2	Mechanical Electric Heater	E03	Appliance	120 V	1 ϕ	12.5 A	2.0	1.5 kVA		20	1	(2) #12	#12	1/2"				M		E
								-		-	-	-	-	-						
								-		-	-	-	-	-						
								-		-	-	-	-	-						
								-		-	-	-	-	-						

ABBREVIATIONS:
E = FURNISHED AND INSTALLED BY DIV 26.
M = FURNISHED BY DIV 23 AND INSTALLED BY DIV 26.

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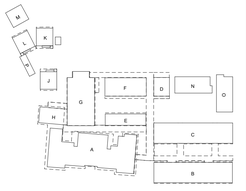
Revisions

No.	Revisions	By	Date	Appr.

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03/11/2019

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Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
EQUIPMENT SCHEDULE

Client Project Number: Client Proj. #

Scale:
Drawn By: Integral Group
Checked By: Integral Group
Issue Date: 03/11/19
Revit Version: 2017

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0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"

0 5' 25' 1/8" = 1'-0"

0 1' 12' 1/4" = 1'-0"

0 1' 6' 1/2" = 1'-0"

0 4' 3/4" = 1'-0"

0 1' 3' 1" = 1'-0"

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

0 1' 3" = 1'-0"

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LUMINAIRE SCHEDULE

FIXTURE TAG	INPUT WATTS PER UNIT	UNIT (LF OR EACH)	LIGHT SOURCE	CCT (K), CRI, BUG	BALLAST OR DRIVER	VOLTS	DESCRIPTION	MOUNTING	MANUFACTURER MODEL NUMBER	WEIGHT (LBS PER LF OR EACH)	REMARKS	MOUNTING DETAIL REFERENCES
B	32	EACH	LED	3500 K CCT	INTEGRAL ELECTRONIC 0-10V DIMMING DRIVER.	120	4FT LONG SURFACE MOUNT WRAPAROUND	SURFACE CEILING	LITHONIA SB LED SBL4LP835	8.77		
S2	40	EACH	LED	4000K CCT, B1-U3-G1	INTEGRAL ELECTRONIC 0-10V DIMMING DRIVER.	120	WALL/CEILING MOUNT DIE-CAST ALUMINUM HOUSING. POWDER POLYESTER PAINTING. PRESSED GLASS DIFFUSER. SILICONE GASKET. STAINLESS STEEL LOCKING SCREWS. IP 65. SYMMETRIC EXTRA WIDE REFLECTOR. WITH INTEGRAL BATTERY PACK.	WALL / SURFACE	PIL BLIZ SQUARE 40 071650	15	MOUNT TO EXTERIOR WALL / SURFACE	

GENERAL NOTES
A. VERIFY LUMINAIRE VOLTAGE WITH BRANCH CIRCUIT SUPPLYING POWER TO LUMINAIRE.
B. COORDINATE LUMINAIRE MOUNTING OPTIONS WITH CEILING TYPES AND MOUNTING HEIGHTS. COORDINATE WITH ARCHITECT FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF LUMINAIRES.
C. VERIFY DRIVER REQUIREMENTS FOR LED LUMINAIRES. DRIVERS SHALL BE CAPABLE OF DIMMING DOWN TO MINIMUM 10% OR LESS.
D. COORDINATE FINAL FINISHES WITH ARCHITECT.
E. COORDINATE WITH ARCHITECT FOR EXACT LOCATIONS OF REMOTE TRANSFORMERS/DRIVERS, IF ANY. PROVIDE SUFFICIENT TRANSFORMER, DRIVER, AND WIRING SIZES AND QUANTITIES TO ACCOMMODATE DISTANCES BETWEEN LUMINAIRE AND REMOTE TRANSFORMERS/DRIVERS.

LIGHTING CONTROL SEQUENCE OF OPERATIONS

	LOCALIZED CONTROL	DIGITAL LIGHTING MANAGEMENT (DLM)			
SPACE/FUNCTION	LOCALIZED MANUAL CONTROL OVERRIDE SWITCH WITH TIME DELAY:	LOCALIZED MANUAL CONTROL OVERRIDE SWITCH	AUTO-ON & AUTO OFF OCCUPANCY SENSING WITH TIME DELAY:	MANUAL ON & AUTO-OFF VACANCY SENSING WITH TIME DELAY:	DAYLIGHT HARVESTING (FC SET POINT)
RESTROOMS	15 MIN	ON/OFF. DIMMING.	15 MIN	N/A	N/A

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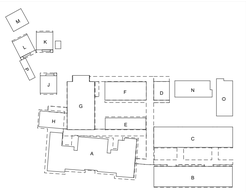
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Architect/Engineer Of Record: _____

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HY Architects Project number: Project Number

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35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

LIGHTING SCHEDULES

Client Project Number: Client Proj. #

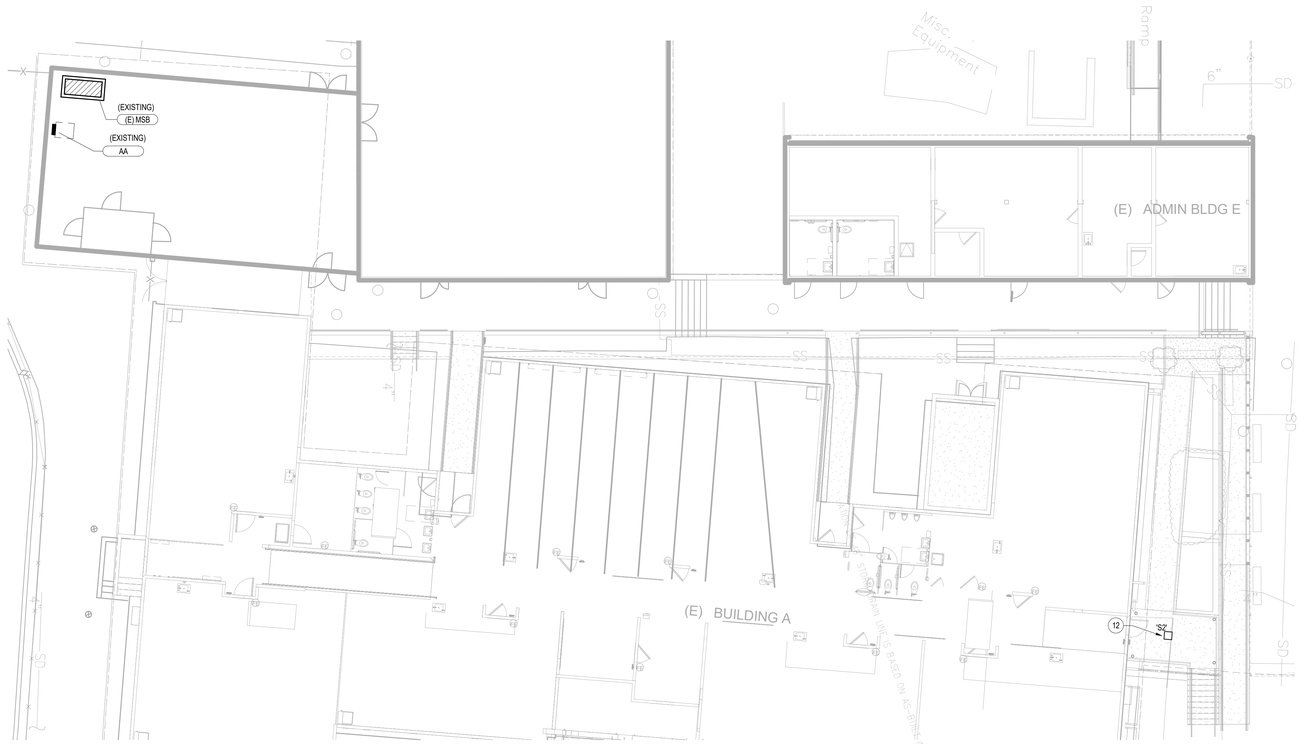
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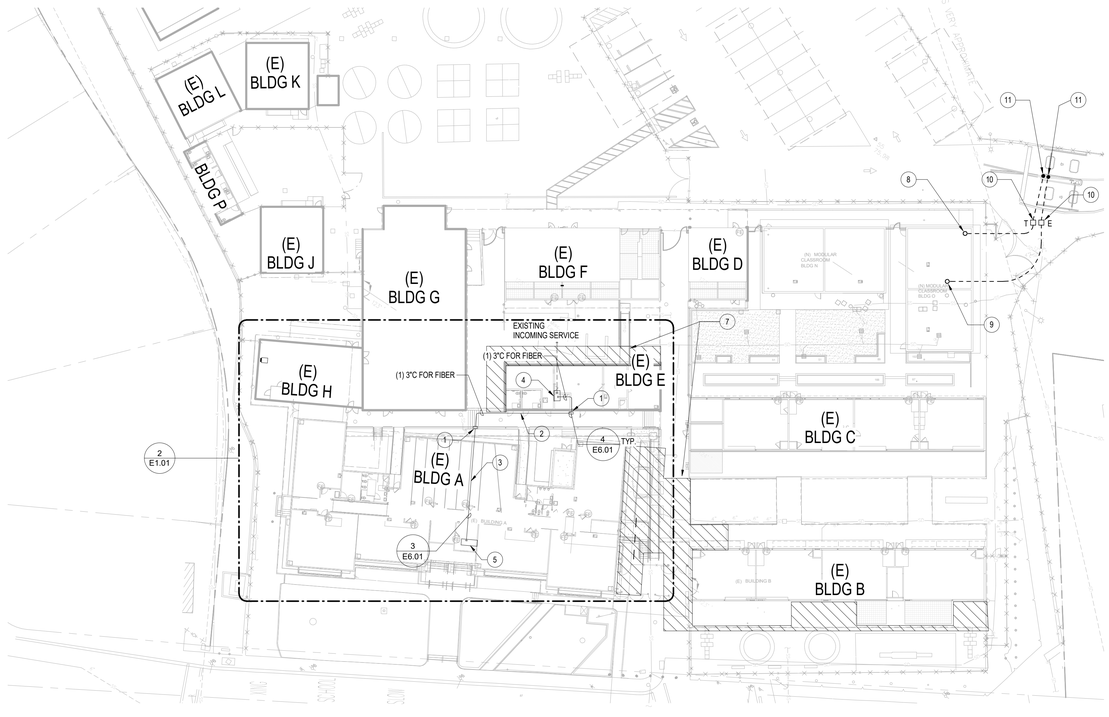
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2 ENLARGED SITE PLAN
1" = 10'-0"



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

GENERAL NOTES

A. PROVISIONS SHALL BE MADE TO DISCONNECT EXISTING EQUIPMENT AND RECONNECT NEW EQUIPMENT WITH MINIMAL POWER DISRUPTION.

B. PROVIDE SEPARATE PULL BOXES FOR POWER AND COMMUNICATIONS CONDUIT. LABEL IN GRADE POWER PULL BOXES AS "ELECTRICAL." LABEL IN GRADE COMMUNICATIONS PULL BOXES AS "SIGNAL."

C. CONCEAL ALL CONDUIT, UNLESS OTHERWISE NOTED.

D. AREA MAY CONTAIN UNDERGROUND RACEWAY. SITE LOCATE ALL EXISTING UNDERGROUND RACEWAY IN THIS AREA BEFORE TRENCHING. MAINTAIN EXTREME CARE WHEN TRENCHING.

E. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, LANDSCAPING AND CIVIL DRAWINGS.

F. SIZE FUSES FOR ALL FUSED SWITCHES PER SUPPLIED EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

G. CERTAIN FEEDER AND BRANCH CIRCUIT WIRE SIZES HAVE BEEN OVERSIZED TO COMPENSATE FOR VOLTAGE DROP. SPLICE WIRES TO COMPATIBLE SIZES FOR TERMINATION. ADJACENT TO EQUIPMENT CONNECT AS REQUIRED.

H. CONTRACTOR SHALL SIZE ALL IN GRADE PULL BOXES PER APPLICABLE CODE OR STANDARD, OR FOR THEIR CONVENIENCE FOR PULLING WIRE, WHICHEVER IS LARGER.

I. ALL SITE LUMINARIES SHALL BE ON EMERGENCY POWER VIA LIGHTING INVERTER POWER. SITE LUMINARIES SHALL BE CONTROLLED VIA ASTRONOMICAL TIME CLOCK. LIGHTING INVERTERS AND TIME CLOCKS LOCATED IN BLDG A AND E. SEE NEW PLANS.

J. UNLESS OTHERWISE NOTED, EXTERIOR LUMINARES SHALL BE FLUSH WITH EXTERIOR WALL WITH CONCEALED CONDUIT. REFER TO DETAIL 10/E6.01.

K. HATCHED AREAS ARE N.I.C (NOT IN CONTRACT).

SHEET NOTES

1. MOUNT J-BOX WITH FLEX COUNDUIT TO MAINTAIN BUILDING SEISMIC STRUCTURE.
2. RUN CONDUIT UNDER (E) CANOPY, COORDINATE WITH ARCHITECT.
3. RUN FIBER CABLE IN ACCESSIBLE CEILING SPACE USING J-HOOKS, FIELD VERIFY & COORDINATE WITH ARCHITECT.
4. NEW MDF CLOSET FOR BUILDING E- ROUTE EXISTING INCOMING SERVICES TO THIS LOCATION. ROUTE FIBER OPTIC CABLE TO IDF ROOM IN BUILDING A.
5. NEW IDF- ROUTE FIBER OPTIC CABLE TO MDF IN BUILDING E.
6. NOT USED.
7. RE-ROUTE EXISTING EXPOSED SITE CONDUITS IN SCOPED AREAS VIA UNDERGROUND TRENCHES. FIELD VERIFY EXISTING SYSTEM AFFECTED BY RE-ROUTING WORK. COORDINATE WITH CIVIL ENGINEER AND ARCHITECT.
8. 1"C. STUB UP TO (E) IDF CABINET. DATA CONNECTION FOR GATE.
9. 1"C. STUB UP TO (E) ELECTRICAL PANEL. CONNECT TO NEAREST AVAILABLE SPARE 120V CIRCUIT VIA 20A/1P BREAKER.
10. PULL BOX. MIN INNER DIMENSIONS 14" X 8".
11. CONNECT COMPLETE TO GATE.
12. CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT AND ASSOCIATED TIME CLOCK CONTROL IN VICINITY. LUMINAIRE WITH INTEGRAL BATTERY PACK.

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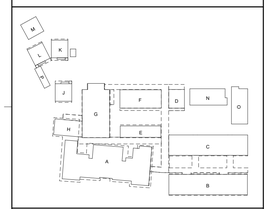
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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

SITE PLAN - ELECTRICAL

Client Project Number: Client Proj. #

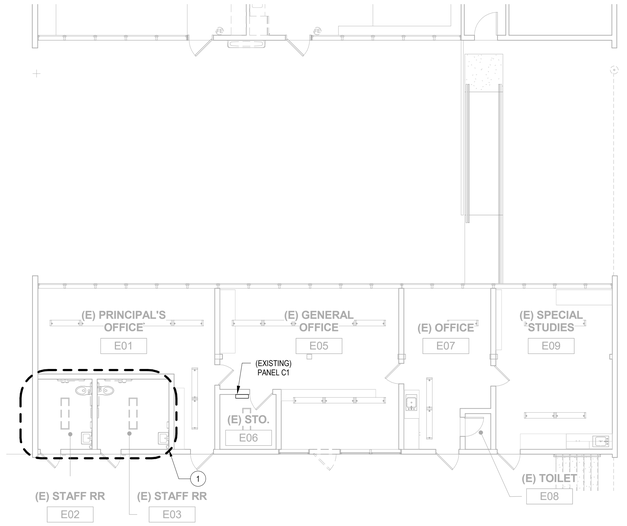
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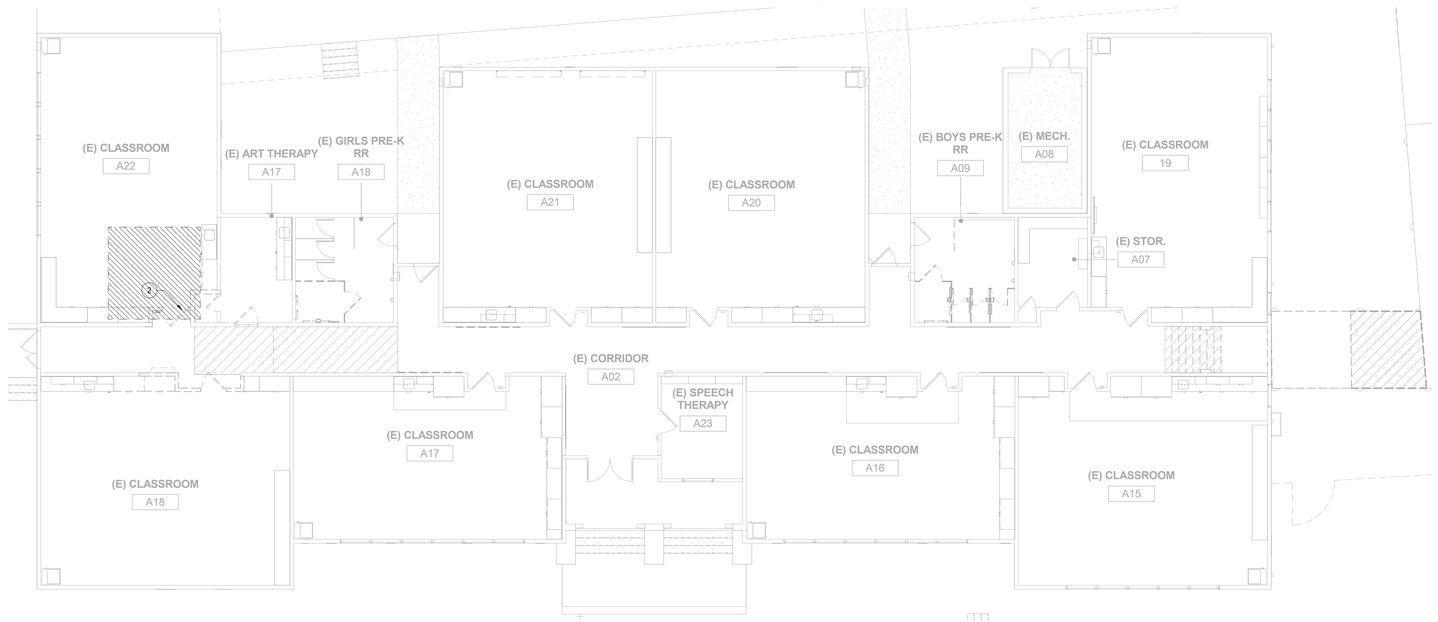
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2 DEMOLITION FLOOR PLAN - BUILDING E - ELECTRICAL

1/8" = 1'-0"



1 DEMOLITION FLOOR PLAN - BUILDING A - ELECTRICAL

1/8" = 1'-0"

DEMOLITION GENERAL NOTES

A. EXISTING ELECTRICAL DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.

B. DISCONNECT DEMOLISHED MECHANICAL EQUIPMENT AS SHOWN ON PLANS. RECAP AT NEAREST J-BOX FOR REUSE WHERE EVER POSSIBLE. SEE NEW PLANS FOR NEW WORK.

C. IN AREAS INDICATED TO BE RENOVATED, REMOVE THAT PORTION OF THE EXISTING ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, ALL LIGHT FIXTURES, RECEPTACLES, MOTOR/EQUIPMENT CONNECTIONS, WIRING, CONDUITS AND APPURTENANCES. ALL UNUSED WIRING AND EXPOSED CONDUIT SHALL BE REMOVED BACK TO POINT OF CONCEALMENT, UNLESS OTHERWISE NOTED.

D. WHERE CONDUIT TO BE REMOVED ENTERS CONCRETE (OR SIMILAR) FLOORS AND WALLS, THE CONDUIT MAY BE ABANDONED IN THE CONCRETE. REMOVE CONDUIT FAR ENOUGH INTO THE CONCRETE TO ALLOW FOR THE INSTALLATION OF NORMAL THICKNESS OF FINISH MATERIAL.

E. WHEN THE WORK NECESSITATES RELOCATION OF EXISTING CONDUIT, WIRING, OR ELECTRICAL EQUIPMENT, THE CONTRACTOR SHALL PERFORM ALL WORK AND MAKE ALL NECESSARY CHANGES TO EXISTING WORK AS MAY BE REQUIRED TO LEAVE THE COMPLETED WORK IN A FINISHED AND WORKMANLIKE CONDITION TO THE ENTIRE SATISFACTION OF THE ENGINEER.

F. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE SUITABLY RELOCATED AND THE SYSTEM RESTORED TO NORMAL OPERATION. WHERE DURATION OF PROPOSED OUTAGES CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTION AS REQUIRED TO MAINTAIN SERVICE WITH THE MINIMUM DISRUPTION POSSIBLE.

G. WHERE REMOVAL WORK IS PERFORMED, THE CONTRACTOR SHALL REPAIR ALL BUILDING SURFACES DAMAGED BY SUCH WORK. PROVIDE FINISHES TO MATCH EXISTING ADJACENT SURFACES.

H. WHILE PERFORMING CONNECTIONS AND/OR ALTERATIONS TO EXISTING ELECTRICAL WORK, TAKE EXTREME CARE TO PROTECT ALL EXISTING EQUIPMENT FROM DIRT, DEBRIS, AND DAMAGE. ALL DAMAGE TO SUCH EQUIPMENT SHALL BE REPAIRED AND/OR EQUIPMENT REPLACED AT THE CONTRACTOR'S EXPENSE.

I. ALL REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE EXECUTED WITH THE LEAST POSSIBLE DISTURBANCE TO THE BUILDING.

J. ALL EXISTING ELECTRICAL MATERIALS NOT REUSED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF OF THE PROJECT SITE. CARE SHOULD BE TAKEN TO DISPOSE OF HAZARDOUS MATERIALS PER REQUIRED GUIDELINES.

K. ANY ELECTRICAL WORK, WHICH WILL INTERFERE WITH THE NORMAL USE OF THE BUILDING IN ANY MANNER, SHALL BE DONE AT SUCH TIME OR TIMES AS SHALL BE MUTUALLY AGREED UPON BETWEEN THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE.

L. RE-ROUTE EXISTING CONDUITS AS REQUIRED TO AVOID CONFLICT WITH NEW FURNACE CLOSETS IN BLDG A, TYPICAL.

M. FOR EXISTING DEVICES, EQUIPMENT, CIRCUITS TO REMAIN IN BUILDING A, RE-CONNECT TO AVAILABLE SPACE CIRCUITS IN NEW PANEL A1. SEE NEW PLANS.

N. FOR EXISTING DEVICES, EQUIPMENT, CIRCUITS TO REMAIN IN BUILDING E, RE-CONNECT TO AVAILABLE SPACE CIRCUITS IN NEW PANEL E1. SEE NEW PLANS.

O. EXISTING CONDITIONS INDICATED ON DOCUMENTS ARE BASED UPON REVIEW OF AVAILABLE RECORD DOCUMENTS AND VISUAL FIELD SURVEY AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

P. SURVEY EXISTING CONDITIONS, INVENTORY AND RECORD THE CONDITION OF ITEMS TO BE REMOVED AND REINSTALLED.

Q. WHERE UTILITIES, FEEDERS, RACEWAYS PASS THROUGH AREAS OR WALLS TO BE DEMOLISHED, DETERMINE SOURCE, FUNCTION AND LOAD PRIOR TO DEMOLITION. IF THESE ARE SERVING AREAS OR LOADS THAT ARE TO REMAIN, PROVIDE PROVISIONS FOR RELOCATING PRIOR TO DEMOLITION.

R. AREAS OR LOADS THAT ARE TO REMAIN, PROVIDE PROVISIONS FOR RELOCATING PRIOR TO DEMOLITION. SOURCE OR FIRST UP STREAM DEVICE TO REMAIN IN SERVICE.

S. REMOVE ALL ABANDONED RACEWAY, CABLES AND EQUIPMENT FROM AREAS TO BE DEMOLISHED/REMODELED UNLESS NOTED OTHERWISE. DEMOLITION TO INCLUDE POWER, LIGHTING FIRE ALARM DEVICES AND RACEWAYS, COMMUNICATION DEVICES AND RACEWAYS, LOW VOLTAGE AND CONTROL SYSTEMS.

T. WHERE RACEWAYS ENTER OR EXIT SLABS OR PARTITIONS TO REMAIN, CUT RACEWAYS FLUSH WITH FINISH SURFACE, REMOVE CONDUCTORS AND PREPARE FOR REFINISH OF AREA.

U. VERIFY THAT ALL UTILITIES HAVE BEEN DISCONNECTED AND MADE SAFE PRIOR TO COMMENCING DEMOLITION.

V. HATCHED AREAS ARE N.I.C (NOT IN CONTRACT).

SHEET NOTES

1. DEMOLISH EXISTING LUMINAIRES AND LIGHTING CONTROL DEVICES, THIS AREA, UNLESS OTHERWISE NOTED.

2. DEMOLISH EXISTING LUMINAIRE TO AVOID CONFLICT WITH NEW WORK.

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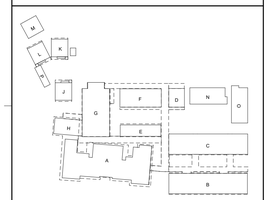
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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

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DEMOLITION FLOOR PLANS – BLDGS A & E - ELECTRICAL

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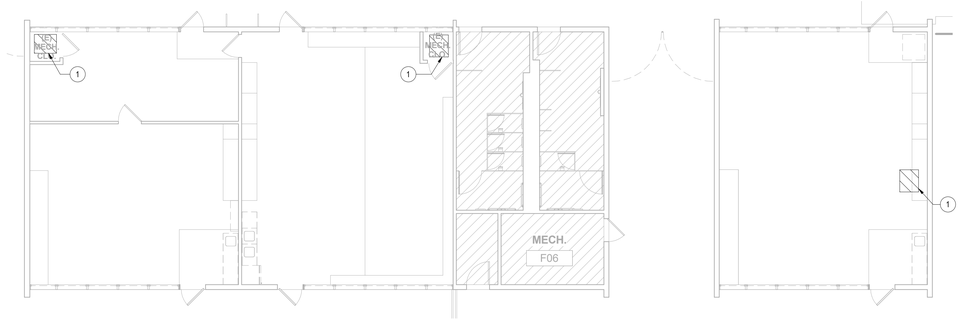
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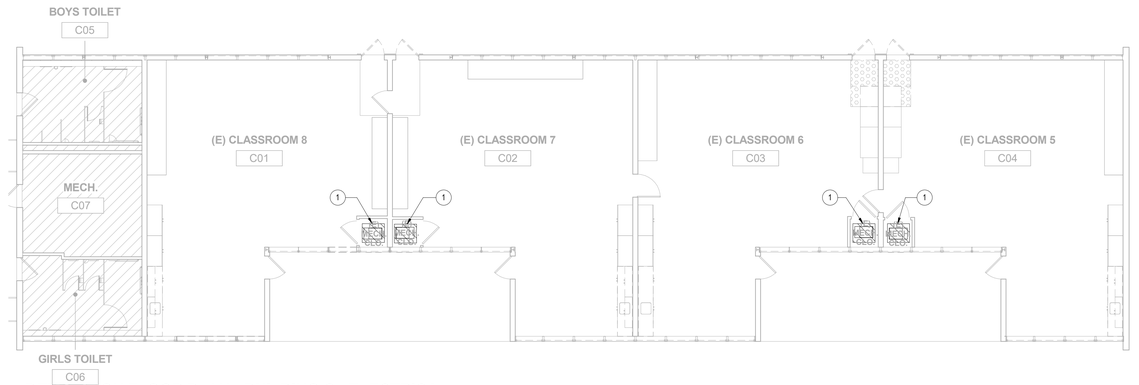
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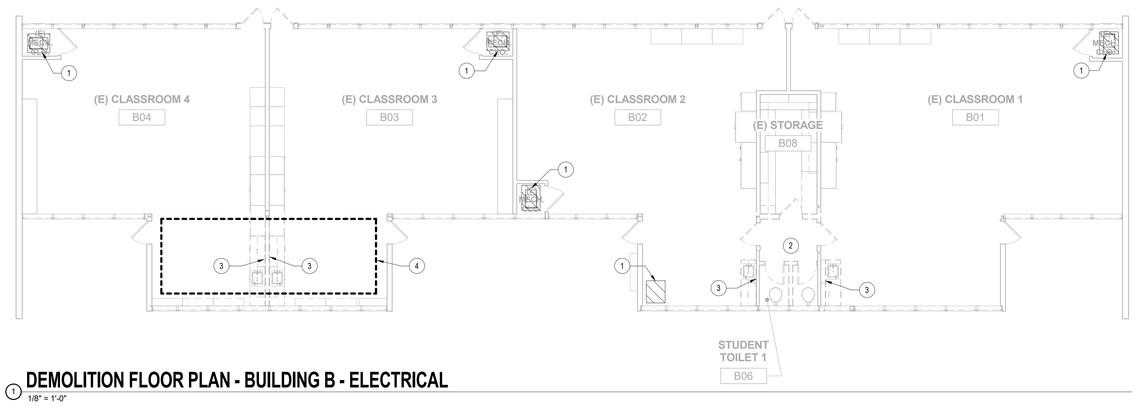
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3 DEMOLITION FLOOR PLAN - BUILDINGS D & F - ELECTRICAL
1/8" = 1'-0"



2 DEMOLITION FLOOR PLAN - BUILDING C - ELECTRICAL
1/8" = 1'-0"



1 DEMOLITION FLOOR PLAN - BUILDING B - ELECTRICAL
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L. RE-ROUTE EXISTING CONDUITS AS REQUIRED TO AVOID CONFLICT WITH NEW FURNACE CLOSETS IN BLDG A, TYPICAL.

M. FOR EXISTING DEVICES, EQUIPMENT, CIRCUITS TO REMAIN IN BUILDING A, RE-CONNECT TO AVAILABLE SPACE CIRCUITS IN NEW PANEL A1. SEE NEW PLANS.

N. FOR EXISTING DEVICES, EQUIPMENT, CIRCUITS TO REMAIN IN BUILDING E, RE-CONNECT TO AVAILABLE SPACE CIRCUITS IN NEW PANEL E1. SEE NEW PLANS.

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S. REMOVE ALL ABANDONED RACEWAY, CABLES AND EQUIPMENT FROM AREAS TO BE DEMOLISHED/REMODELED UNLESS NOTED OTHERWISE. DEMOLITION TO INCLUDE POWER, LIGHTING FIRE ALARM DEVICES AND RACEWAYS, COMMUNICATION DEVICES AND RACEWAYS, LOW VOLTAGE AND CONTROL SYSTEMS.

T. WHERE RACEWAYS ENTER OR EXIT SLABS OR PARTITIONS TO REMAIN, CUT RACEWAYS FLUSH WITH FINISH SURFACE, REMOVE CONDUCTORS AND PREPARE FOR REFINISH OF AREA.

U. VERIFY THAT ALL UTILITIES HAVE BEEN DISCONNECTED AND MADE SAFE PRIOR TO COMMENCING DEMOLITION.

V. HATCHED AREAS ARE N.I.C (NOT IN CONTRACT).

SHEET NOTES

1. DISCONNECT DEMOLISHED MECHANICAL EQUIPMENT. RECAP TO NEAREST J-BOX FOR REUSE. SEE NEW PLANS FOR NEW WORK.
2. DISCONNECT DEMOLISHED RECEPTACLES, LUMINARES, AND LIGHTING CONTROL DEVICES, THIS ROOM.
3. DISCONNECT DEMOLISHED RECEPTACLES AND OTHER ELECTRICAL DEVICES, THIS DEMOLISHED WALL.
4. RELOCATE EXISTING LUMINAIRES, THIS AREA, TO AVOID CONFLICT WITH NEW WORK.

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Revisions

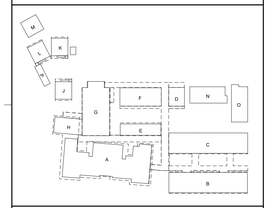
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HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

DEMOLITION FLOOR PLANS – BLDGS B, C, D & F - ELECTRICAL

Client Project Number: Client Proj. #

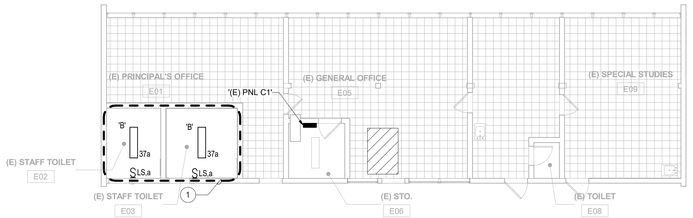
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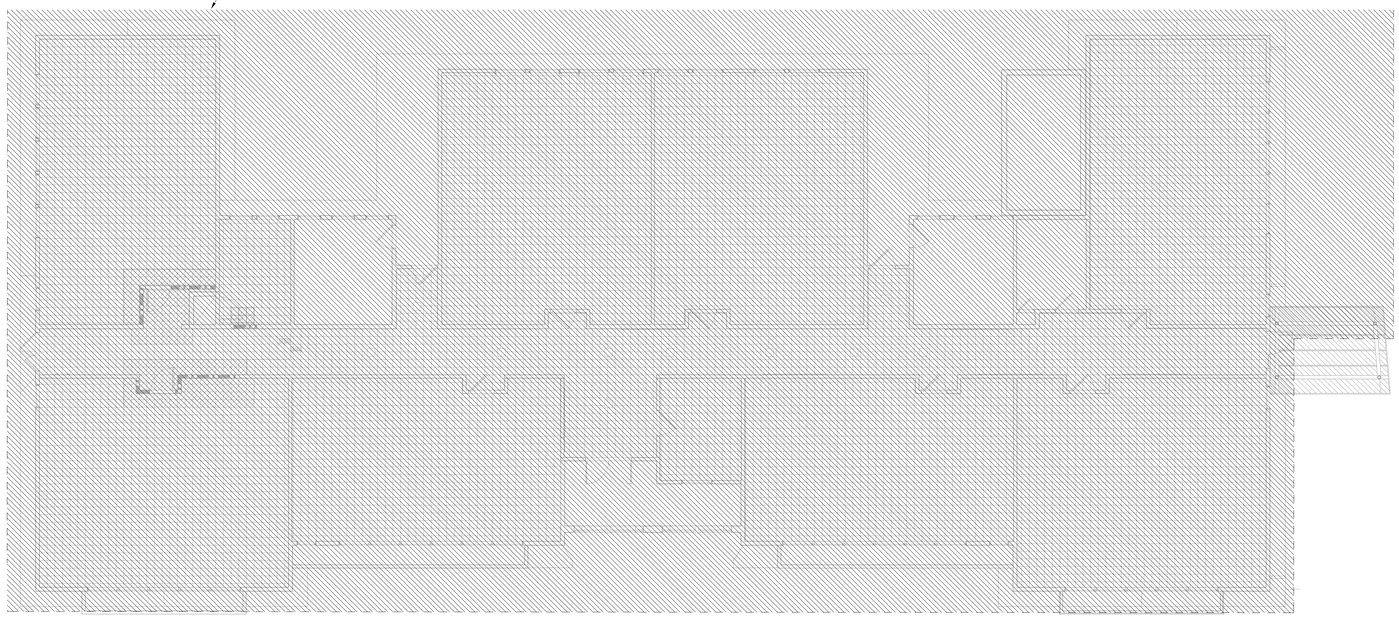
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0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"
0 5' 25' 1/8" = 1'-0"
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0 1' 3' 1" = 1'-0"
0 2' 1 1/2" = 1'-0"
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IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY



2 FLOOR PLAN - BUILDING E - LIGHTING
1/8" = 1'-0"



1 FLOOR PLAN - BUILDING A - LIGHTING (NO WORK)
1/8" = 1'-0"

LIGHT GENERAL NOTES

A. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF ALL LIGHT FIXTURES, EXPOSED CONTROL DEVICES AND LIGHT SWITCHES. VERIFY CEILING TYPE WITH ARCHITECTURAL DOCUMENTS AND COORDINATE TRIMS. PROVIDE ALL REQUIRED FIXTURE MOUNTING HARDWARE. COORDINATE FIXTURE TYPES WITH MOUNTING SURFACE PRIOR TO ORDERING.

B. PENDANT FIXTURES SHALL BE FREE TO SWING A MINIMUM OF 45 DEGREES FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS, OTHERWISE PROVIDE SEISMIC RESTRAINT.

C. RUN ALL INTERIOR CONDUIT IN FINISHED INTERIOR AREAS CONCEALED UNLESS OTHERWISE NOTED.

D. PROVIDE U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.

E. PROVIDE SINGLE PLATE WALL COVER FOR MULTIPLE SWITCHES. SEE DRAWINGS FOR NUMBER OF SWITCHES IN SPECIFIC LOCATIONS.

F. ZONES 1 AND 2 INDICATE ON PLANS REFER TO PRIMARY AND SECONDARY DAYLIGHT ZONES, RESPECTIVELY.

G. ALL LUMINARIES TAGGED WITH "EM" DESIGNATION LETTERS SHALL BE ON EMERGENCY POWER VIA LIGHTING INVERTER POWER.

H. SWITCHES SHOWN ARE LOW VOLTAGE DIMMER SWITCHES VIA LOCALIZED DIGITAL LIGHTING CONTROL SYSTEM WATTSTOPPER DLM CONTROLLERS (OR EQUAL). WHERE ROOMS DO NOT INDICATE OCCUPANCY SENSOR DEVICE, SWITCH SHALL BE A SENSOR SWITCH WITH DIMMING CONTROLS.

I. HOMERUN TO PANEL E1 FOR BLDG E, UNLESS OTHERWISE NOTED.

J. HOMERUN TO PANEL A1 FOR BLDG A, UNLESS OTHERWISE NOTED.

K. FOR EXISTING DEVICES, EQUIPMENT, CIRCUITS TO REMAIN IN BUILDING A, RE-CONNECT TO AVAILABLE SPACE CIRCUITS IN NEW PANEL A1.

L. FOR EXISTING DEVICES, EQUIPMENT, CIRCUITS TO REMAIN IN BUILDING E, RE-CONNECT TO AVAILABLE SPACE CIRCUITS IN NEW PANEL E1.

M. HATCHED AREAS ARE N.I.C (NOT IN CONTRACT).

LIGHT FIXTURE MOUNTING NOTES

A. ATTACH ALL LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE.

B. FLUSH OR RECESSED LIGHT FIXTURES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF TWO 12 GA SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE

C. ALL FLUSH OR RECESSED LIGHT FIXTURES WEIGHING 56 POUNDS OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT 12 GA WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED. THE FOUR TAUT 12 GA WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE FIXTURE.

D. SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GA WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT FEET OR LONGER.

E. SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH RODS, HANGER WIRES OR CABLE PASSING THROUGH EACH PENDANT TAB. RODS, HANGER WIRES AND/OR CABLE, SHALL BE CAPABLE OF SUPPORTING FOUR TIMES THE WEIGHT OF THE FIXTURE.

F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHTING FIXTURES AND GRID COORDINATION. VERIFY THAT ADEQUATE CLEARANCE FOR INSTALLATION, MAINTENANCE AND HEAT DISSIPATION IS AVAILABLE BEFORE ORDERING LIGHTING FIXTURES.

SHEET NOTES

1. CONNECT TO EXISTING LIGHTING CIRCUIT IN VICINITY.

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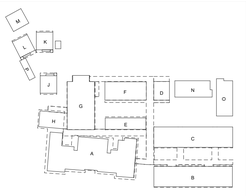
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HY Architects Project number: Project Number

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35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

OVERALL FLOOR PLANS – BLDGS A & E - LIGHTING

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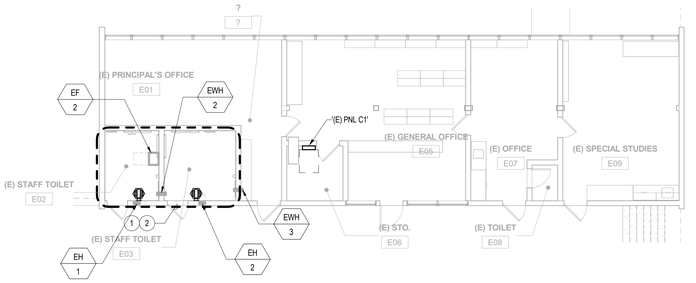
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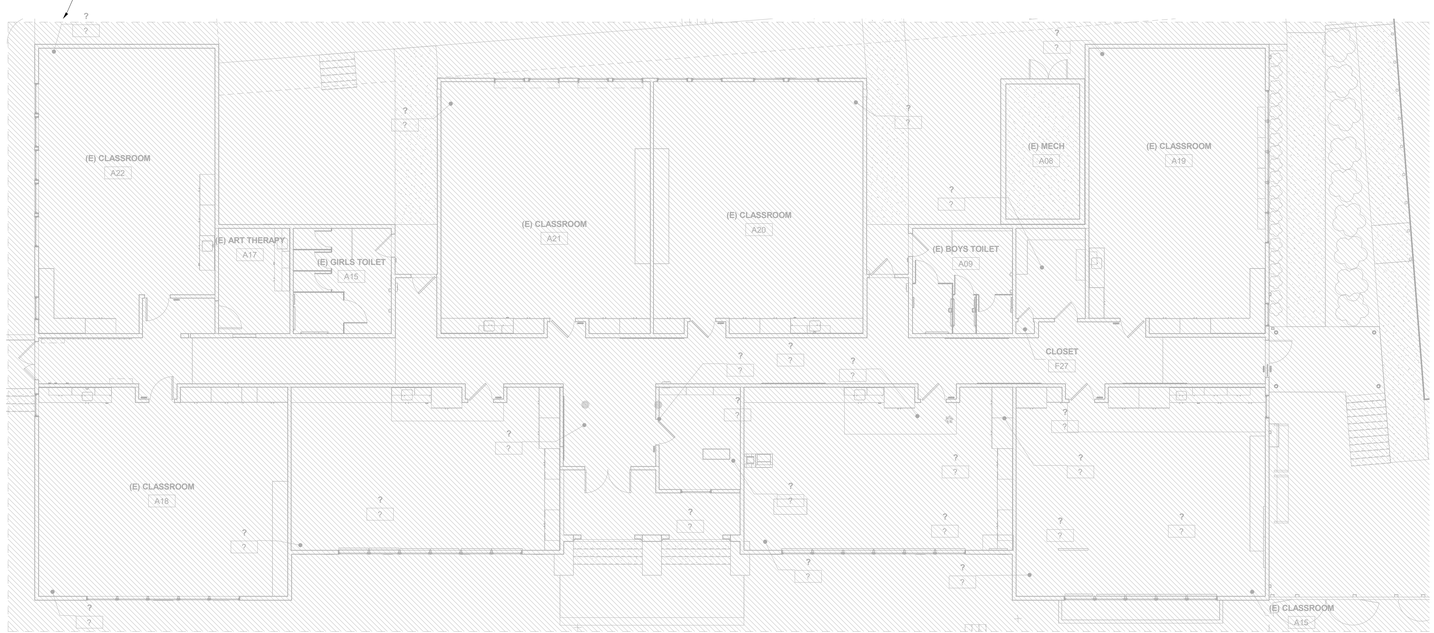
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2 FLOOR PLAN - BUILDING E - POWER

1/8" = 1'-0"

NO WORK



1 FLOOR PLAN - BUILDING A - POWER (NO WORK)

1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT WITH ARCHITECTURAL AND IMPACT CONSTRUCTION DRAWINGS.

B. CIRCUIT ALL DEVICES TO NEAREST PANELBOARD, UNLESS OTHERWISE NOTED.

C. SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

D. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

E. STUB 4 MINIMUM OF 4 SPARE 3/4" CONDUITS FROM ALL NEW RECESSED PANELBOARDS TO ACCESSIBLE CEILING LOCATION.

F. REFER TO DISTRICT STANDARDS FOR BASIS OF DESIGN. SEE DISTRICT STANDARDS, DIV 27, FOR PA/CLOCK SYSTEM. PA/CLOCK HEADEND SHALL BE LOCATED IN BLDG A STAFF LOUNGE /WORKROOM AND BLDG E ELECTRICAL ROOM, RESPECTIVELY. TELECOMMUNICATIONS HORIZONTAL CABLING SHALL TERMINATE AT WALL RACK LOCATED IN BLDG A STAFF LOUNGE/WORKROOM AND BLDG E ELECTRICAL ROOM, RESPECTIVELY. COORDINATE FINAL LOCATION WITH DISTRICT IT AND ARCHITECT.

G. PROVIDE POWER 120V/24V TRANSFORMER AS REQUIRED TO POWER VAV/BY-PASS DAMPERS, RESTROOM PLUMBING CONTROLS, DUCT SMOKE DETECTORS, MAGNETIC DOOR HOLDERS AND FIRE SMOKE DAMPERS FOR MECHANICAL EQUIPMENT. SEE DIAGRAMS ON MECHANICAL AND PLUMBING DRAWINGS FOR CONNECTION TO MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE CIRCUIT FORM NEAREST AVAILIABLE PANEL, UNLESS OTHERWISE NOTED.

H. CONNECT NEW MECHANICAL EQUIPMENT AS SHOWN ON PLANS. REUSE EXISTING CIRCUITS WHEREVER POSSIBLE. SEE DEMO PLANS FOR DEMOLISHED EXISTING EQUIPMENT.

I. HOMERUN TO PANEL E1 FOR BLDG E, UNLESS OTHERWISE NOTED.

J. HOMERUN TO PANEL A1 FOR BLDG A, UNLESS OTHERWISE NOTED.

K. FOR EXISTING DEVICES, EQUIPMENT, CIRCUITS TO REMAIN IN BUILDING A, RE-CONNECT TO AVAILABLE SPACE CIRCUITS IN NEW PANEL A1.

L. FOR EXISTING DEVICES, EQUIPMENT, CIRCUITS TO REMAIN IN BUILDING E, RE-CONNECT TO AVAILABLE SPACE CIRCUITS IN NEW PANEL E1.

M. HATCHED AREAS ARE N.I.C (NOT IN CONTRACT).

(#) SHEET NOTES

1. CONNECT RECEPTACLES IN NEW TOILET ROOMS TO EXISTING 120V CIRCUIT IN VICINITY. AVOID OVERLOAD CONDITION AT BREAKER.
2. CONNECT TO SPARE CIRCUIT IN EXISTING PANEL C1 FOR EWH. VERIFY EWH SELECTION. PROVIDE BREAKER AND FEEDER SIZE TO MATCH EQPT SELECTION.

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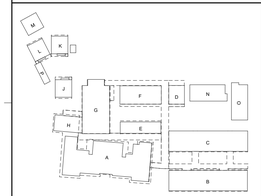
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REGISTERED PROFESSIONAL ENGINEER DAVID K. KAKUDA No. E 14003 Exp. 6-30-20 ELECTRICAL STATE OF CALIFORNIA

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

OVERALL FLOOR PLANS – BLDGS A & E - POWER

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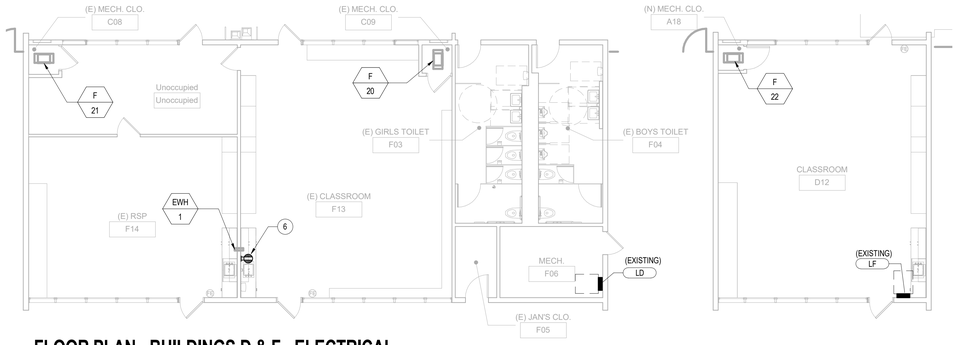
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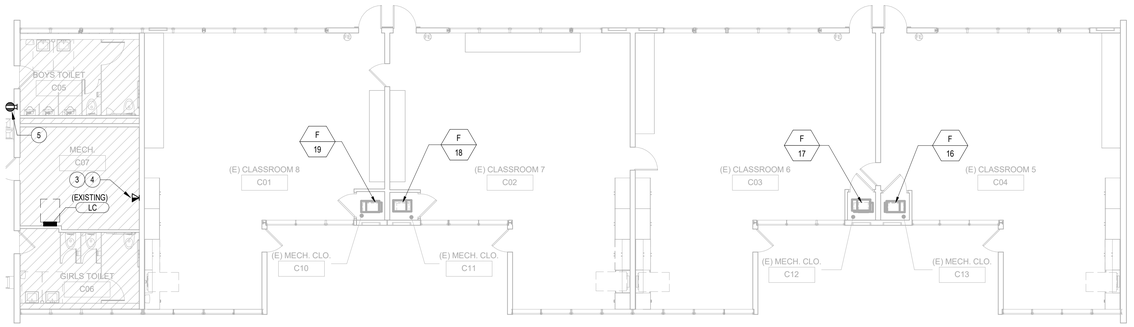
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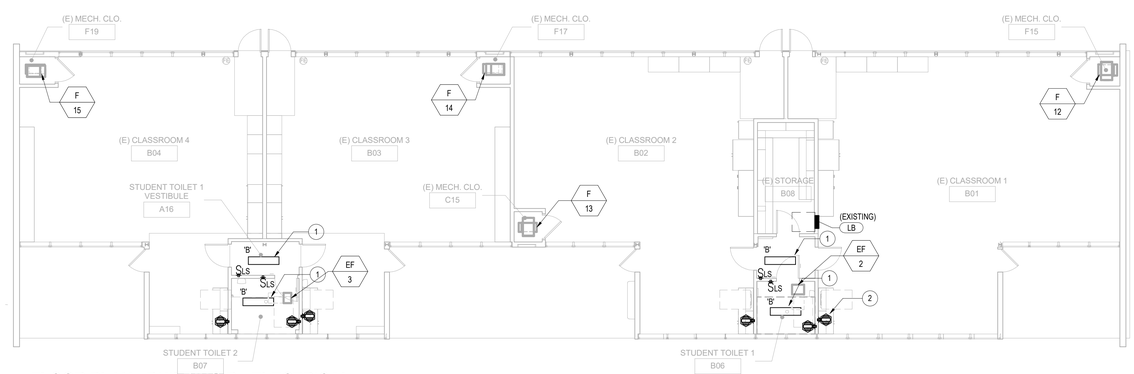
FLOOR PLAN - BUILDINGS D & F - ELECTRICAL

3 1/8" = 1'-0"



FLOOR PLAN - BUILDING C - ELECTRICAL

2 1/8" = 1'-0"



FLOOR PLAN - BUILDING B - ELECTRICAL

1 1/8" = 1'-0"

GENERAL NOTES

A. COORDINATE EXACT LOCATIONS OF ALL ARCHITECTURAL, MECHANICAL AND PLUMBING EQUIPMENT WITH ARCHITECTURAL AND IMPACT CONSTRUCTION DRAWINGS.

B. CIRCUIT ALL DEVICES NEAREST TO PANELBOARD, UNLESS OTHERWISE NOTED.

C. SIZE FUSES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

D. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

E. STUB A MINIMUM OF 4 SPARE 3/4" CONDUITS FROM ALL NEW RECESSED PANELBOARDS TO ACCESSIBLE CEILING LOCATION.

F. REFER TO DISTRICT STANDARDS FOR BASIS OF DESIGN. SEE DISTRICT STANDARDS, DIV 27, FOR PA/CLOCK SYSTEM.

G. PROVIDE POWER 120V/24V TRANSFORMER AS REQUIRED TO POWER VAV/BY-PASS DAMPERS, RESTROOM PLUMBING CONTROLS, DUCT SMOKE DETECTORS, MAGNETIC DOOR HOLDERS AND FIRE SMOKE DAMPERS FOR MECHANICAL EQUIPMENT. SEE DIAGRAMS ON MECHANICAL AND PLUMBING DRAWINGS FOR CONNECTION TO MECHANICAL AND PLUMBING EQUIPMENT. PROVIDE CIRCUIT FORM NEAREST AVAILABLE PANEL, UNLESS OTHERWISE NOTED.

H. CONNECT NEW MECHANICAL EQUIPMENT AS SHOWN ON PLANS. REUSE EXISTING CIRCUITS WHEREVER POSSIBLE. SEE DEMO PLANS FOR DEMOLISHED EXISTING EQUIPMENT.

I. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF ALL LIGHT FIXTURES, EXPOSED CONTROL DEVICES AND LIGHT SWITCHES. VERIFY CEILING TYPE WITH ARCHITECTURAL DOCUMENTS AND COORDINATE TRIMS. PROVIDE ALL REQUIRED FIXTURE MOUNTING HARDWARE. COORDINATE FIXTURE TYPES WITH MOUNTING SURFACE PRIOR TO ORDERING.

J. PENDANT FIXTURES SHALL BE FREE TO SWING A MINIMUM OF 45 DEGREES FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING OBSTRUCTIONS, OTHERWISE PROVIDE SEISMIC RESTRAINT.

K. RUN ALL INTERIOR CONDUIT IN FINISHED INTERIOR AREAS CONCEALED UNLESS OTHERWISE NOTED.

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N. ZONES 1 AND 2 INDICATE ON PLANS REFER TO PRIMARY AND SECONDARY DAYLIGHT ZONES, RESPECTIVELY.

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P. SWITCHES SHOWN ARE LOW VOLTAGE DIMMER SWITCHES VIA LOCALIZED DIGITAL LIGHTING CONTROL SYSTEM WATTSTOPPER DLM CONTROLLERS (OR EQUAL). WHERE ROOMS DO NOT INDICATE OCCUPANCY SENSOR DEVICE, SWITCH SHALL BE A SENSOR SWITCH WITH DIMMING CONTROLS.

SHEET NOTES

1. CONNECT TO NEAREST EXISTING LIGHTING CIRCUIT IN VICINITY. VERIFY NO OVERLOAD CONDITION AT EXISTING BREAKER.
2. CONNECT TO SPARE 20A CIRCUIT IN EXISTING PANEL LB. SPARE CKT CAN SERVE SIX NEW DUPLEX RECEPTACLES.
3. PROVIDE DATA CONNECTION TO BMS PANEL.
4. CONNECT TO SPARE 20A CIRCUIT IN EXISTING PANEL LB. SPARE CKT CAN SERVE SIX NEW DUPLEX RECEPTACLES.
5. PROVIDE GFCI RECEPTACLE WITH WEATHERPROOF COVER FOR BOTTLE FILLER CONNECTION. CONNECT TO NEAREST 120V SPARE CIRCUIT. HOMERUN TO EXISTING PANEL IN BLDG.
6. POWER CONNECTION TO SINK SENSOR. CONNECT TO NEAREST EXISTING AVAILABLE 120V CIRCUIT IN THE VICINITY. AVOID OVERLOAD CONDITION AT EXISTING 20A BREAKER.

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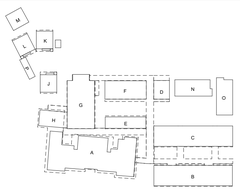
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0 5' 50' — 0 5' 25' — 0 1' 12' — 0 1' 6' — 0 4' — 0 1' 3' — 0 2' — 0 1'

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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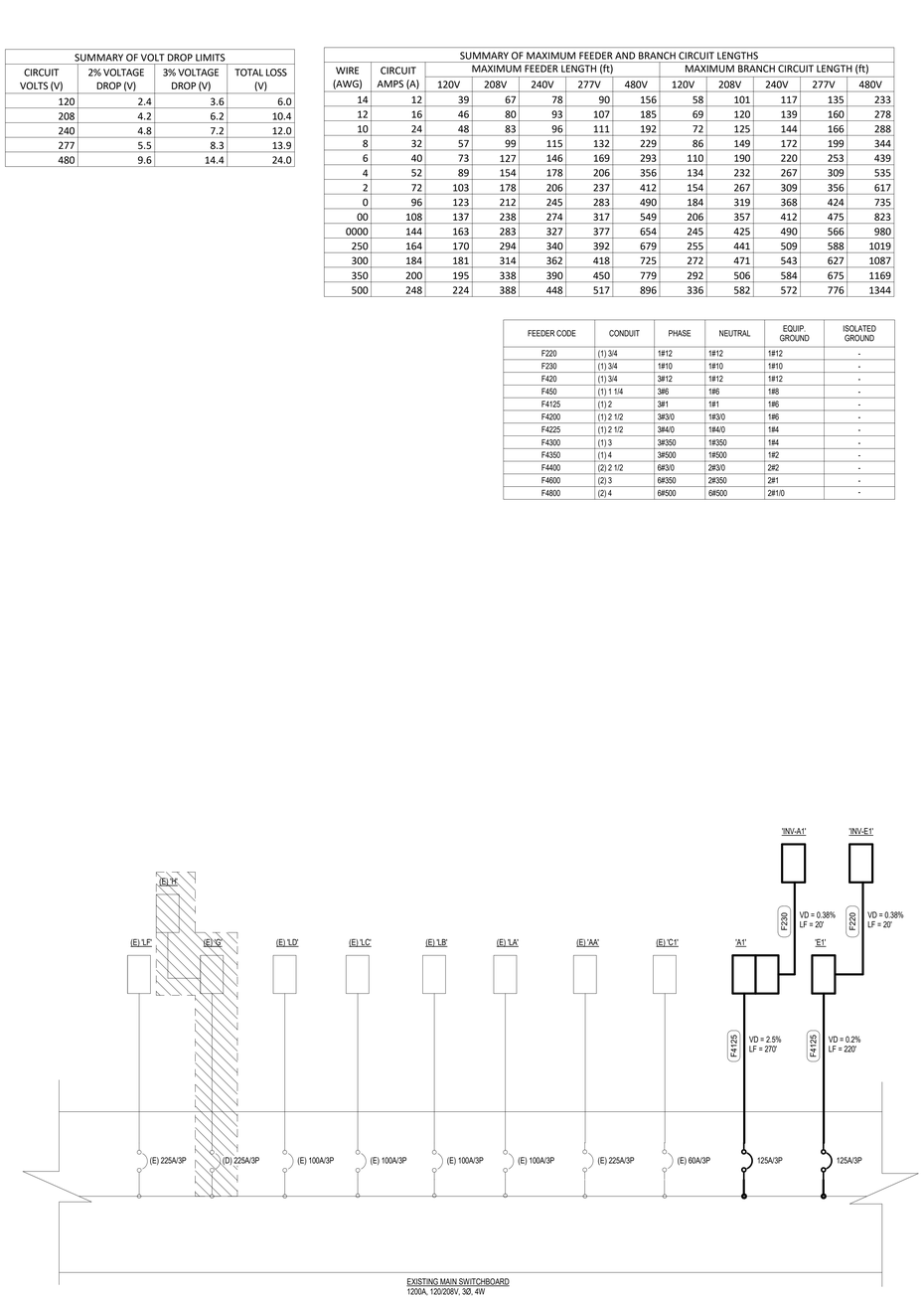
SUMMARY OF VOLT DROP LIMITS			
CIRCUIT VOLTS (V)	2% VOLTAGE DROP (V)	3% VOLTAGE DROP (V)	TOTAL LOSS (V)
120	2.4	3.6	6.0
208	4.2	6.2	10.4
240	4.8	7.2	12.0
277	5.5	8.3	13.9
480	9.6	14.4	24.0

SUMMARY OF MAXIMUM FEEDER AND BRANCH CIRCUIT LENGTHS												
WIRE (AWG)	CIRCUIT AMPS (A)	MAXIMUM FEEDER LENGTH (ft)					MAXIMUM BRANCH CIRCUIT LENGTH (ft)					
		120V	208V	240V	277V	480V	120V	208V	240V	277V	480V
14	12	39	67	78	90	156	58	101	117	135	233
12	16	46	80	93	107	185	69	120	139	160	278
10	24	48	83	96	111	192	72	125	144	166	288
8	32	57	99	115	132	229	86	149	172	199	344
6	40	73	127	146	169	293	110	190	220	253	439
4	52	89	154	178	206	356	134	232	267	309	535
2	72	103	178	206	237	412	154	267	309	356	617
0	96	123	212	245	283	490	184	319	368	424	735
00	108	137	238	274	317	549	206	357	412	475	823
0000	144	163	283	327	377	654	245	425	490	566	980
250	164	170	294	340	392	679	255	441	509	588	1019
300	184	181	314	362	418	725	272	471	543	627	1087
350	200	195	338	390	450	779	292	506	584	675	1169
500	248	224	388	448	517	896	336	582	572	776	1344

FEEDER CODE	CONDUIT	PHASE	NEUTRAL	EQUIP. GROUND	ISOLATED GROUND
F220	(1) 3/4	1#12	1#12	1#12	-
F230	(1) 3/4	1#10	1#10	1#10	-
F420	(1) 3/4	3#12	1#12	1#12	-
F450	(1) 1 1/4	3#6	1#6	1#8	-
F4125	(1) 2	3#1	1#1	1#6	-
F4200	(1) 2 1/2	3#3/0	1#3/0	1#6	-
F4225	(1) 2 1/2	3#4/0	1#4/0	1#4	-
F4300	(1) 3	3#350	1#350	1#4	-
F4350	(1) 4	3#500	1#500	1#2	-
F4400	(2) 2 1/2	6#3/0	2#3/0	2#2	-
F4600	(2) 3	6#350	2#350	2#1	-
F4800	(2) 4	6#500	6#500	2#1/0	-

GENERAL NOTES

A. PARTIAL SINGLE LINE DIAGRAM BASED ON AVAILABLE RECORD DRAWINGS AND SURFACE LEVEL INVESTIGATION. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.



1 PARTIAL SINGLE LINE DIAGRAM
N.T.S.

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Revisions

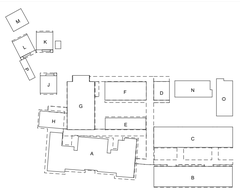
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REGISTERED PROFESSIONAL ENGINEER — RAYMOND K. KAKUDA — No. E 14003 Exp. 6-30-20 — ELECTRICAL — STATE OF CALIFORNIA

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

SINGLE LINE DIAGRAM - ELECTRICAL

Client Project Number: Client Proj. #

Scale: 12" = 1'-0"
Drawn By: Integral Group
Checked By: Integral Group
Issue Date: 03/11/19
Revit Version: 2017

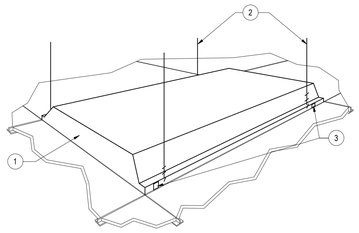
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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY



GENERAL DETAIL NOTES:

A. DETAIL IS TYPICAL FOR ALL RECESSED FIXTURES IN CEILING, UON. CEILING OPENING TO BE FRAMED WITH ADDITIONAL RUNNERS FOR SUPPORT OF FIXTURES.

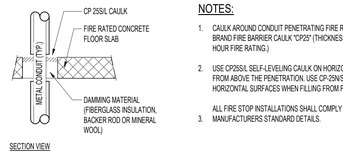
(#) SHEET NOTES:

1. RECESSED FLUORESCENT LIGHT FIXTURE IN DEMOUNTABLE CEILING.
2. PROVIDE TWO(2) TEN GAUGE STEEL SUPPORT WIRES ON DIAGONAL CORNERS OR (4) TWELVE GAUGE AT FOUR CORNERS TIED TO BUILDING STRUCTURE INDEPENDENTLY OF CEILING SUPPORTS. ALLOW 1/4" SLACK IN WIRE.
3. PROVIDE FOUR(4) CLIPS ATTACHED TO FIXTURES TO POSITIVELY TIE FIXTURE TO T-BAR CEILING CHANNEL SUSPENSION.

8 RECESSED FIXTURE IN CEILING
N.T.S.

7 NOT USED
N.T.S.

10 NOT USED
N.T.S.

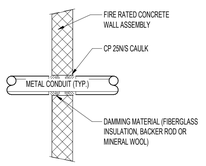


SECTION VIEW

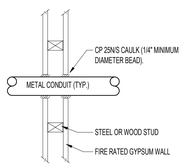
NOTES:

1. CAULK AROUND CONDUIT PENETRATING FIRE RATED WALLS AND CEILINGS. USE 3M BRAND FIRE BARRIER CAULK "CP25" (THICKNESS AS REQUIRED FOR 1,2 AND/OR 3 HOUR FIRE RATING.)
2. USE CP25S/L SELF-LEVELING CAULK ON HORIZONTAL SURFACES WHEN FILLING GAPS FROM ABOVE THE PENETRATION. USE CP-25N/S NO-SAG CAULK ON VERTICAL AND HORIZONTAL SURFACES WHEN FILLING FROM FLOOR OR IN WALL APPLICATIONS.

ALL FIRE STOP INSTALLATIONS SHALL COMPLY WITH U.L., A.S.T.M. AND
3. MANUFACTURERS STANDARD DETAILS.



SECTION VIEW

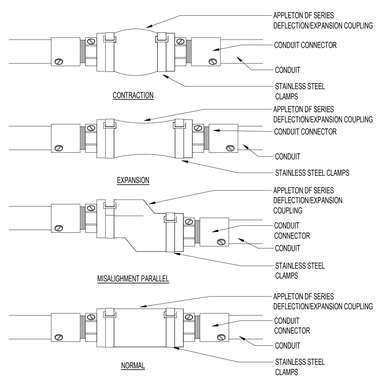


SECTION VIEW

6 RATED WALL FLOOR AND CEILING PENETRATION
N.T.S.

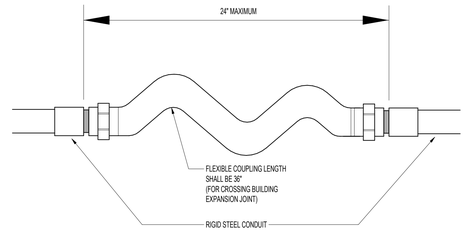
NOTES:

1. HOT-DIPPED GALVANIZED FINISHED DUCTILE IRON COUPLING.
2. MOLDED NEOPRENE SLEEVE.
3. TINNED FLEXIBLE COPPER BRAID BONDING JUMPER.
4. STAINLESS STEEL BANDING CLAMPS.
5. UP TO 3/4" CONTRACTION / EXPANSION.
6. UP TO 30° ANGULAR DIRECTIONAL ROTATION.
7. FOR USE INDOORS, OUTDOORS OR UNDERGROUND.
8. FOR 1/2" TO 6" CONDUITS.



5 EXPANSION DEFLECTION FITTINGS
N.T.S.

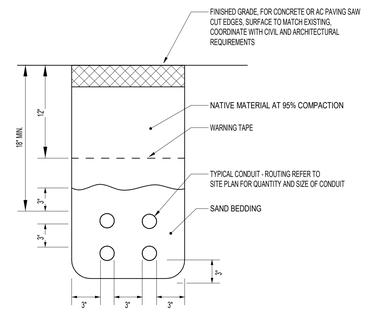
9 NOT USED
N.T.S.



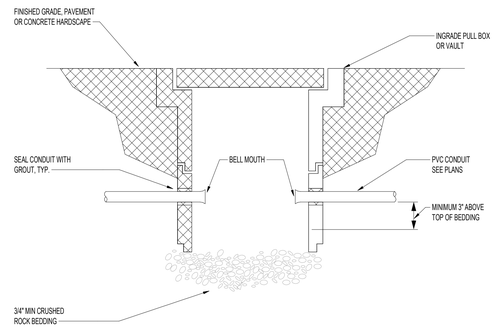
NOTES:

1. LATERAL, LONGITUDINAL AND VERTICAL SUPPORTS FOR CONDUITS SHALL BE PROVIDED ON EITHER SIDE OF SEISMIC JOINT.

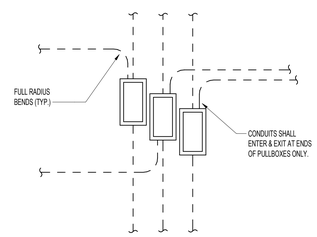
4 FLEXIBLE COUPLINGS
N.T.S.



3 CONDUIT IN TRENCH
N.T.S.



2 INGRADE PULL BOX CONDUIT TERMINATION
N.T.S.



NOTES:

1. COORDINATE QUANTITY OF PULL BOXES WITH SITE PLAN.
2. ALL CONDUIT BENDS AND BOX SIZES SHALL COMPLY WITH EIA/TIA STANDARDS.
3. REFER TO SPECIFICATIONS FOR MINIMUM SEPARATION REQUIREMENTS FOR UTILITIES.

1 PULLBOX CLUSTER (TYP.)
N.T.S.

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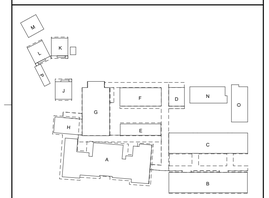
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HY Architects Project number: Project Number

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

DETAILS - ELECTRICAL

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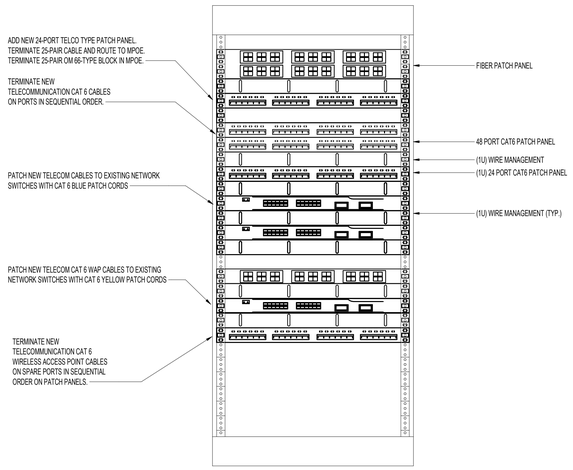
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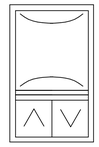
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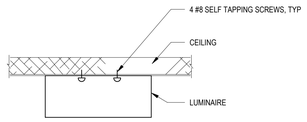
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9 RACK ELEVATION
N.T.S.



6 LIGHTING CONTROL WALL MODULES
N.T.S.



3 SURFACE LUMINAIRE MOUNTING
N.T.S.

GENERAL NOTES FOR LIGHTING CONTROL

A. ALL SENSOR LOCATIONS ARE APPROXIMATE AND SHOWN FOR DESIGN INTENT ONLY. LOCATE SENSORS PER MANUFACTURER GUIDELINES AND INSTALLATION MANUAL. PROVIDE QUANTITIES AND LOCATIONS AS REQUIRED FOR PROPER SENSING. FINAL DEVICE LAYOUT SHALL BE SUBMITTTED AS A SHOP DRAWING AS PART OF SUBMITTAL REVIEW. SHOP DRAWING APPROVAL IS REQUIRED PRIOR TO PROCUREMENT AND ROUGH-IN.

B. LOCATE SENSOR MINIMUM 6-8 FEET FROM ANY AIR SUPPLY AND/OR RETURN REGISTERS.

C. THE CONTRACTOR SHALL COMMISSION SENSITIVITY AND TIME DELAY SETTINGS AND PROVIDE TITLE 24 COMMISIONING DOCUMENTS.

D. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED OCCUPANCY SENSOR POWER PACKS. PROVIDE J-BOXES WITH BLANK FACEPLATES AT CEILING.

E. PROVIDE UL924 RELAY DEVICE QUANTITIES AS REQUIRED. DEVICES SHALL BE COMPATIBLE WITH CONTINUOUS DIMMING CAPABILITIES. UL924 RELAY DEVICES SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION, INSIDE A MULTI-GANG J-BOX WITH BLANK FACEPLATE, CONCEALED IN UPPER CABINETRY OR ABOVE CEILINGS. COORDINATE FINAL LOCATION OF DEVICES WITH ARCHITECT. PROVIDE LABELS FOR CEILING TILES TO CLEARLY INDICATE DEVICE LOCATIONS ABOVE CEILING. COORDINATE CEILING TILE LABELS AND CEILING ACCESS PANEL LOCATIONS WITH ARCHITECT.

F. PROVIDE ROOM CONTROLLER QUANTITIES AS REQUIRED FOR A COMPLETE SYSTEM. ONE ROOM CONTROLLER IS REQUIRED FOR EACH LIGHTING CIRCUIT. PROVIDE ROOM CONTROLLER SERIES WITH THE FOLLOWING THREE SWITCHING ZONES (INCLUDING MULTIPLE DAYLIGHT SWITCHING ZONES) AND CONTINUOUS DIMMING CAPABILITIES. ROOM CONTROLLERS SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION, INSIDE A MULTI-GANG J-BOX WITH BLANK FACEPLATE, CONCEALED IN UPPER CABINETRY OR ABOVE MULTI-GANG J-BOX WITH BLANK FACEPLATE, CONCEALED IN UPPER CABINETRY OR ABOVE CEILING. COORDINATE FINAL LOCATION OF DEVICES WITH ARCHITECT. PROVIDE LABELS FOR CEILING TILES TO CLEARLY INDICATE DEVICE LOCATIONS ABOVE CEILING. COORDINATE CEILING TILE LABELS AND CEILING ACCESS PANEL LOCATIONS WITH ARCHITECT.

G. LMRJ SERIES PRE-TERMINATED CABLES OR CAT5E IS ACCEPTABLE. MANUFACTURER RECOMMENDS PROVIDING LMRJ SERIES PRE-TERMINATED CABLES FOR EASE OF INSTALLATION.

H. COORDINATE WITH MANUFACTURER SO THAT DEVICES ALLOW FOR OPEN TOPOLOGY. PROVIDE NETWORK BRIDGE SO THAT OCCUPANCY SENSORS CAN BE USED AS ADDITIONAL CONTROL DEVICES FOR SELECT MECHANICAL EQUIPMENT (IE: VAV UNITS) VIA BMS INTERCONNECTION.

I. WALL MOUNT STATIONS SHALL INCLUDE ADDITIONAL BUTTON FOR ALL ON/OFF. LOW VOLTAGE DIMMER SWITCH SHALL BE PROVIDED FOR DIMMING LUMINAIRES. WALL MOUNT STATIONS ARE AVAILABLE WITH 1, 2, 3, 4, 5, AND 8 BUTTON OPTIONS. COORDINATE WITH LIGHTING PLANS FOR ZONE CONTROL. SPARE BUTTONS IF NOT USED. PROVIDE COMMON FACE PLATE FOR SWITCH BANK OF MULTIPLE WALL STATIONS. OBTAIN FINAL APPROVAL AND ENGINEER REVIEW OF WALL MOUNT STATIONS PRIOR TO PROCUREMENT.

J. ALL PART NUMBERS SHOWN ARE BY WATTSTOPPER. SEE MANUFACTURER'S WEBSITE FOR SUPPORT DOCUMENTATION AND TECHNICAL SUPPORT.

K. EACH SWITCHBANK SHALL HAVE CAPABILITY TO SWITCH ON/OFF ALL LIGHTING ZONES CONTROLLED BY SAME SWITCHBANK. MANUAL SWITCHES CAN OVERRIDE OCCUPANCY SENSORS FOR TURN OFF CONDITIONS.

L. COORDINATE WITH OWNER AND ARCHITECT FOR ENGRAVING OF BUTTONS AND FACEPLATES. COORDINATE FINAL FINISHES WITH ARCHITECT.

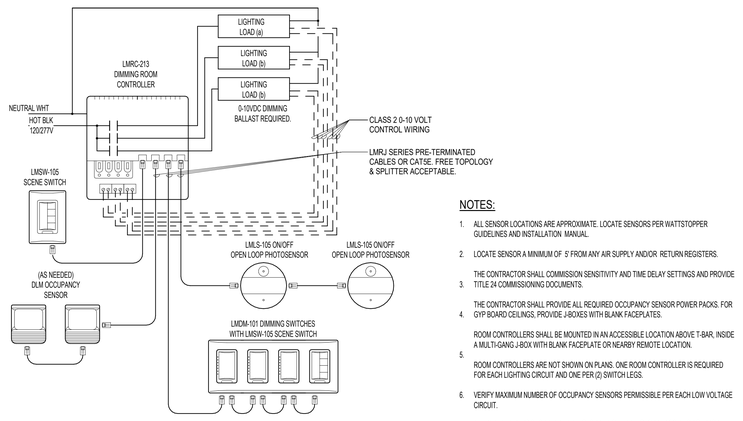
NOTES:

1. USE THIS MOUNTING DETAIL IF MORE THAN (3) 1" CABLES OR CABLE BUNDLES ARE TO BE SUPPORTED.

8 J-HOOK DETAIL (SINGLE)
N.T.S.

5 NOT USED
N.T.S.

2 NOT USED
N.T.S.



NOTES:

1. ALL SENSOR LOCATIONS ARE APPROXIMATE. LOCATE SENSORS PER WATTSTOPPER GUIDELINES AND INSTALLATION MANUAL.
2. LOCATE SENSOR A MINIMUM OF 5' FROM ANY AIR SUPPLY AND/OR RETURN REGISTERS.
3. THE CONTRACTOR SHALL COMMISSION SENSITIVITY AND TIME DELAY SETTINGS AND PROVIDE TITLE 24 COMMISSIONING DOCUMENTS.
4. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED OCCUPANCY SENSOR POWER PACKS. FOR GYP BOARD CEILINGS, PROVIDE J-BOXES WITH BLANK FACEPLATES.
5. ROOM CONTROLLERS SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION ABOVE T-BAR, INSIDE A MULTI-GANG J-BOX WITH BLANK FACEPLATE OR NEARBY REMOTE LOCATION.
6. ROOM CONTROLLERS ARE NOT SHOWN ON PLANS. ONE ROOM CONTROLLER IS REQUIRED FOR EACH LIGHTING CIRCUIT AND ONE PER (2) SWITCH LEGS.
7. VERIFY MAXIMUM NUMBER OF OCCUPANCY SENSORS PERMISSIBLE PER EACH LOW VOLTAGE CIRCUIT.
8. ALL PART NUMBERS SHOWN ARE WATTSTOPPER. SEE WATTSTOPPER.COM FOR SUPPORT DOCUMENTATION AND TECHNICAL SUPPORT.

1 DIGITAL LIGHTING CONTROL TYPICAL DIMMING WIRING DIAGRAM
N.T.S.

7 NOT USED
N.T.S.

4 NOT USED
N.T.S.

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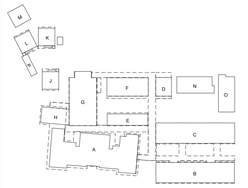
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MARTIN ELEMENTARY SCHOOL MODERNIZATION

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DETAILS - ELECTRICAL

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Drawn By: Integral Group
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FIRE ALARM SYMBOLS AND LEGEND

RECESSED	SURFACE	GENERAL ELECTRICAL SYMBOLS
		RELAY OR EQUIPMENT CABINET AS INDICATED ON PLAN
		LIGHTING OR POWER PANEL BOARD
		FREE STANDING SWITCHBOARD, MOTOR CONTROL CENTER OR DISTRIBUTION BOARD
		FIRE TREATED PLYWOOD BACKBOARD 3/4"X96" HIGH X LENGTH AS INDICATED
	EEE	ELECTRICAL EQUIPMENT DESIGNATION DESIGNED "EQ01"
	1	REFERENCE TO NOTE "1" ON SAME SHEET
	FA	LIGHTING FIXTURE DESIGNATION FA = FIXTURE TYPE
	P 1	MECHANICAL EQUIPMENT DESIGNATION "P-1" INDICATED
	X33	EQUIPMENT NAME OR NUMBER
	+4'-6"	MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR EQUIPMENT
	MH=4'-6"	MOUNTING HEIGHT FROM FINISHED FLOOR TO BOTTOM OF OUTLET OR EQUIPMENT
	1 E-6	DETAIL REFERENCE NUMBER "1" ON DRAWING "E-6"
	A E-6	SECTION OR ELEVATION REFERENCE LETTER "A" ON DRAWING "E-6"
	A-1,3,5	INDICATES HOMERUN WITH THREE CIRCUITS AND A SEPARATE NEUTRALS
	FSD	FIRE SMOKE DAMPER

FIRE ALARM SYSTEM

WALL	CEILING	DESCRIPTION	MODEL	CSFM LISTING
	H	HEAT DETECTOR W/ BASE	FPT-11/ DB-11	7270-0067:0203/ 7300-0067:0134
	H X	HEAT DETECTOR SUBSCRIPT INDICATES: X = C - ABOVE CEILING X = F - BELOW FLOOR	FPT-11/ DB-11	7270-0067:0203/ 7300-0067:0134
	S	SMOKE DETECTOR	FP-11/ DB-11	7270-0067:0203/ 7300-0067:0134
	S X	SMOKE DETECTOR SUBSCRIPT INDICATES: X = C - ABOVE CEILING X = F - BELOW FLOOR X = D - DUCT	FP-11/ DB-11	7270-0067:0203/ 7300-0067:0134
F		MANUAL PULL STATION	HMS-S	7150-0067:0036
F	F	STROBE		
F	F	HORNSTROBE	NA	NA
F	F	SPEAKER/STROBE	SEFH-HMC-R	7125-0067:0272
F	F	HORN	NA	NA
F WP		HORN - WEATHER PROOF, VANDAL RESISTANT	NA	NA
F	F	SPEAKER ONLY	SEFH-R	7320-0067:0273
FACP		FIRE ALARM CONTROL PANEL	XLSV	7165-0067:0222
RNPS		REMOTE NOTIFICATION POWER SUPPLY	NA	NA
FATC		FIRE ALARM TERMINAL CABINET	NA	NA
EOL		END OF LINE RESISTOR	NA	NA
RA		REMOTE ANNUNCIATOR	SSD	7165-0067:0259
SD		SMOKE DAMPER	NA	NA
MD		MAGNETIC DOOR HOLDER	NA	NA
AM		ADDRESSABLE MODULE	HTRI-S	7135-0067:0288
RM		RELAY MODULE	HTRI-R	7135-0067:0288
WFS		WATER FLOW SWITCH	NA	NA
PIV		POST INDICATOR VALVE	NA	NA
VTS		VALVE TAMPER SWITCH	NA	NA

SYMBOL LIST

GENERAL SYMBOLS

- 3 / E2.1 — PLAN OR DETAIL DESIGNATION "3" DENOTES DETAIL OR PLAN NUMBER; "E2.1" DENOTES SHEET NUMBER. BLANK DENOTES SAME SHEET.
- 2 / E1.0 — SECTION OR ELEVATION DESIGNATION "2" DENOTES SECTION OR ELEVATION NUMBER; "E1.0" DENOTES SHEET NUMBER. BLANK DENOTES SAME SHEET.
- 1 — SHEET NOTE TAG - SEE ASSOCIATED NOTE ON SAME SHEET.
- 11 — FEEDER, CONDUIT OR RELAY SCHEDULE TAG

NEW VS. EXISTING

- (N) CONDUIT - CONCEALED IN WALLS OR CEILING.
- (E) CONDUIT - CONCEALED IN WALLS OR CEILING.
- (N) F — (N) MANUAL PULL STATION
- (E) F — (E) MANUAL PULL STATION

WIRING & CONDUIT RUN SYMBOLS

- CONDUIT - CONCEALED IN WALLS OR CEILING.
- CONDUIT - EXPOSED.
- CONDUIT - DIRECT BURIAL.
- CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODES. ALL 20A, 1P BRANCH CIRCUITS SHALL BE #12 AWG WIRES WITH #12 AWG NEUTRALS AND GROUNDS. RUN A MAXIMUM OF 3 BRANCH CIRCUITS PER CONDUIT.
- CONDUIT - FLEX WITH CONNECTION.
- CONDUIT - STUB UP.
- CONDUIT - STUB DOWN.
- CONDUIT - EMERGENCY POWER SYSTEM.
- CONDUIT - CAPPED.
- CONDUIT - CONTINUATION.

TYPICAL ZONE NOMENCLATURE

75 H F S1-4 V1-5 D1-5

- "S1" DENOTES SPEAKER CIRCUIT "4" DENOTES DEVICE NUMBER
- "V1" DENOTES VISUAL(STROBE) CIRCUIT "5" DENOTES DEVICE NUMBER
- "75" DENOTES CANDELA RATING OF STROBE
- "D1" DENOTES DETECTION ZONE "5" DENOTES DEVICE NUMBER

PROJECT DESCRIPTION

1. OCCUPANCY TYPE: COMBINATION OF E (EDUCATIONAL) AND F-1 (FOOD PROCESSING)
2. SYSTEM TYPE: CLASS B; ADDRESSABLE, AUTOMATIC WITH ONE WAY EMERGENCY COMMUNICATION SYSTEM
3. METHOD OF COMMUNICATION: VIA TELEPHONE LINE TO AN OFF-SITE U.L LISTED MONITORING STATION
4. SCOPE OF WORK: NEW AUTOMATIC FIRE ALARM SYSTEM WITH EMERGENCY VOICE EVACUATION SYSTEM AT AN EXISTING SCHOOL CAMPUS

OWNERSHIP OF INSTRUMENTS OF SERVICE AND DOCUMENTATION

1. ALL REPORTS, DRAWINGS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY THE CONSULTANT AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE CONSULTANT. THE CONSULTANT SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.
2. THE CLIENT ACKNOWLEDGES THE CONSULTANT'S CONSTRUCTION DOCUMENTS, INCLUDING ELECTRONIC FILES, AS INSTRUMENTS OF PROFESSIONAL SERVICE. NEVERTHELESS, THE FINAL CONSTRUCTION DOCUMENTS PREPARED UNDER THIS AGREEMENT SHALL BECOME THE PROPERTY OF THE CLIENT UPON COMPLETION OF THE SERVICES AND PAYMENT IN FULL OF ALL MONIES DUE TO THE CONSULTANT. THE CLIENT SHALL NOT REUSE OR MAKE ANY MODIFICATION TO THE CONSTRUCTION DOCUMENTS WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE CONSULTANT. THE CLIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS THE CONSULTANT, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS (COLLECTIVELY, CONSULTANT) AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING FROM OR ALLEGEDLY ARISING FROM OR IN ANY WAY CONNECTED WITH THE UNAUTHORIZED REUSE OR MODIFICATION OF THE CONSTRUCTION DOCUMENTS BY THE CLIENT OR ANY PERSON OR ENTITY THAT ACQUIRES OR OBTAINS THE CONSTRUCTION DOCUMENTS FROM OR THROUGH THE CLIENT WITHOUT THE WRITTEN AUTHORIZATION OF THE CONSULTANT.
3. A DOCUMENTATION CABINET SHALL BE PREPARED PROXIMAL TO THE FACU. (NFPA 72, 7.7.2.1). ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (NFPA 72, 7.7.2.2). THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS" (NFPA 72, 7.7.2.4)

SEQUENCE OF OPERATION OF FIRE ALARM SYSTEM

1. ACTIVATION OF ANY SYSTEM PULL STATION, SMOKE DETECTOR, HEAT DETECTOR OR ANY OTHER INITIATION DEVICES SHALL CAUSE ALL SIGNAL DEVICES ON THE CAMPUS TO ACTIVATE AND SOUND. FACP(S) AND REMOTE ANNUNCIATOR(S) SHALL INDICATE THE SOURCE OF THE ALARM AND ALARM LIGHT(S) ON THE FIRE ALARM PANEL WILL ILLUMINATE. ACTIVATION OF ALARM SHALL CAUSE THE DIGITAL ALARM COMMUNICATIONS TRANSMITTER TO TRANSMIT THE ALARM TO A U.L. LISTED CENTRAL STATION.
2. ACTIVATION OF A VALVE SUPERVISORY SWITCH OR SHOULD AN OPEN GROUND OR FAULT OCCUR IN THE WIRING, THE FACP(S) AND REMOTE ANNUNCIATOR(S) SHALL INITIATE A TROUBLE SIGNAL AND SHALL INDICATE THE SOURCE OF THE TROUBLE.

   ONCE THE SYSTEM IS BACK TO NORMAL, THE PANEL WILL RESOUND FOR PROPER RESETTING.
3. WHERE REMOTE MONITORING IS REQUIRED, THE FIRE ALARM PANEL AND THE VOICE
4. EVACUATION PANELS SHALL BE BACKED UP BY STANDBY BATTERIES FOR 24 HOURS AND 15 MINUTES OF ALARM (NFPA 72, 10.6.7.2.1(2)).

SIEMENS CONTACT INFORMATION

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ABBREVIATIONS

A	AMPERE
ABV	ABOVE
AF	AMPERE FRAME, AMPERE FUSE
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ARCH	ARCHITECTURAL
AS	AMPERE SWITCH
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CBC	CALIFORNIA BUILDING CODE
CD	CANDELA
CEC	CALIFORNIA ELECTRICAL CODE
CFC	CALIFORNIA FIRE CODE
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CO	CONDUIT ONLY
COMM	COMMUNICATIONS
CSFM	CALIFORNIA STATE FIRE MARSHALL
CTR	CENTER
(D)	DEMOLISH
DET	DETAIL
DIM	DIMENSION
DIST	DISTRIBUTION
DP	DISTRIBUTION PANEL
DWG	DRAWING
(E)	EXISTING
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE RESISTOR
EQP	EQUIPMENT
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
(F)	FUTURE
FIN	FINISH
FL	FLOOR
G,GND	GROUND
HGT	HEIGHT
HP	HORSEPOWER
IC	INTERCOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KAIC	KILOAMPERE INTERRUPTING CAPACITY
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
LV	LOW VOLTAGE
MAX	MAXIMUM
KCMIL	THOUSAND CIRCULAR MILS
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
	NOT IN CONTRACT
NIC	NOT IN ELECTRICAL CONTRACT
NIEC	NUMBER, NORMALLY OPEN
NO	NOT TO SCALE
NTS	ON CENTER
OC	POLE
P	PUBLIC ADDRESS
PA	PULL BOX
PB	POWER FACTOR
PF	PHASE
PH	PANEL
PNL	POLYVINYL CHLORIDE
PVC	EXISTING TO BE RELOCATED
(R)	REQUIRED
REQD	REQUIREMENT(S)
REQT(S)	ROOM
RM	REMOTE NOTIFICATION POWER SUPPLY
RNPS	RIGID STEEL CONDUIT
RSC	SHEET
SHT	SIGNAL TERMINAL CABINET
STC	SWITCH
SW	SWITCHBOARD
SWBD	TERMINAL CABINET
TC	TELEPHONE
TEL	TYPICAL
TYP	UNLESS OTHERWISE NOTED
UON	VOLT
V	WATT, WIRE
W	WEATHERPROOF
WP	TRANSFORMER
XFMR	

CALIFORNIA CODES AND STANDARDS

1. 2016 CALIFORNIA BUILDING CODE, TITLE 24, PART 2 VOLUME #1 AND #2.
2. 2016 CALIFORNIA ELECTRICAL CODE, TITLE 24, PART 3.
3. 2016 CALIFORNIA MECHANICAL CODE, TITLE 24, PART 4.
4. 2016 CALIFORNIA PLUMBING CODE, TITLE 24, PART 5.
5. 2016 CALIFORNIA ENERGY CODE, TITLE 24, PART 6.
6. 2016 CALIFORNIA HISTORICAL CODE, TITLE 24, PART 8.
7. 2016 CALIFORNIA FIRE CODE, TITLE 24, PART 9.
8. 2016 CALIFORNIA EXISTING BUILDING CODE, TITLE 24, PART 10.
9. 2016 CALIFORNIA BUILDING STANDARDS, TITLE 24, PART 12.
10. 2016 NFPA 13 AUTOMATIC SPRINKLER SYSTEMS.
11. 2016 NFPA 72 NATIONAL FIRE ALARM CODE.
12. 2016 NFPA 20 INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION.
13. 2016 NFPA 100 EMERGENCY AND STANDBY POWER SYSTEMS.
14. STATE FIRE MARSHAL REGULATIONS, TITLE 19.

GENERAL NOTES

A. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. OBTAIN CONTRACT DOCUMENTS FOR ALL OTHER TRADES AND BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON THE CONTRACT DOCUMENTS. COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES ON PROJECT. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANEL LOCATIONS WITH ALL OTHER WORK TO AVOID CONFLICTS.

B. COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. AND CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED AND LABELED FOR THE APPLICATION.

C. BEFORE BEGINNING CONSTRUCTION, PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.

D. OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK, UNLESS OTHERWISE NOTED.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.

F. MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. AT THE CONCLUSION OF THE PROJECT, PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.

G. ALL MATERIALS PROVIDED FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE NOTED. PROVIDE ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.

H. PROVIDE ALL REQUIRED "CUTTING, PATCHING, BACK FILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.

I. THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

J. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUIT RUNS INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING, UNLESS OTHERWISE NOTED. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS.

K. ALL CONDUITS SHALL BE A MINIMUM 3/4," UNLESS OTHERWISE NOTED. POWER BRANCH CIRCUITS SHALL HAVE A MINIMUM TWO (2) #12 AWG AND ONE (1) #12 AWG GROUND TYPE THWN/THHN. ALL POWER AND FIRE ALARM WIRING SHALL BE RUN IN CONDUIT. THE USE OF ROMEX (NMC) OR BX (AC) CABLE IS NOT PERMITTED. PROVIDE ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODES.

L. CONDUITS SHALL NOT BE USED AS A GROUND PATH. ALL CONDUITS SHALL CONTAIN A GROUNDING CONDUCTOR, SIZED PER NEC/CEC REQUIREMENTS.

M. PROVIDE A PULL CORD IN EVERY EMPTY CONDUIT FOR USE IN FUTURE CONSTRUCTION.

N. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEMS IN THE AREA OF UNDER GROUND WORK. REPAIR ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. MAINTAIN EXTREME CARE DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN THE AREA. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. COORDINATE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL WORK.

O. CONDUIT AND WIRING ARE SHOWN ON THESE PLANS DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.

P. SEISMIC ANCHORAGE OF ALL ELECTRICAL EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH CBC.

Q. PLANS SHALL BE APPROVED BY THE "DIVISION OF THE STATE ARCHITECT" (DSA) PRIOR TO BEGINNING WORK. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASE.

R. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFE OPRERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC.

S. ALL FIRE ALARM DEVICES SHALL BE CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED.

T. FIRE ALARM WIRING SHALL BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760. MINIMUM WIRE SHALL BE TWO (2) #14 AWG FOR INITIATING CIRCUITS AND TWO (2) #14 AWG FOR INDICATING CIRCUITS.

U. FIRE ALARM WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH 3-310-8, T24/CEC (i.e. WEST PENN AQUASEAL OR EQUAL).

V. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24. PROVIDE DETAILS OF FIRE- STOP SYSTEMS FOR ALL PIPE/CABLE/CONDUIT PASSING THROUGH FIRE RATED WALLS/FLOORS REQUIRING PROTECTED OPENINGS.

W. VISUAL FIRE ALARM DEVICES SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELAS. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE.

X. ALL FIRE ALARM DEVICE CONNECTIONS TO THE LIGHT AND POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT(S). THE CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED. CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. (2016 NFPA 72 SECTION10.6.5.2.2)

Y. PROVIDE TEMPORAL-THREE DISTINCTIVE FIRE ALARM SOUND. (CFC AND NFPA 72)

Z. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIABLE AREAS. (NFPA 72 SECTION 18.4.3.1) (I.E. CLASSROOM AVERAGE AMBIENT ROOM NOISE IS 45 dBA PLUS 15 dBA EQUALS 60 dBA MINIMUM ALARM TONE REQUIRED)

AA. STROBES SHALL FLASH AT A RATE OF NOT EXCEEDING TWO FLASHES PER SECOND NOR BE LESS THAN ONE FLASH EVERY SECOND. (2016 NFPA 72)

BB. AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC MODE SHOULD HAVE A SOUND LEVEL OF NOT LESS THAN 75 dBA AT 10 FEET OR MORE THAN 110 dBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE.

CC. 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 FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING AT THEIR DISCRETION.

DD. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS. (2016 NFPA 72)

EE. THE SUPERVISORY STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORIES OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.

FF. NFPA 72 (2016) SEC. 18.4.10 VOICE INTELLIGIBILITY. WITHIN THE ACOUSTICALLY DISTINGUISHABLE SPACES (ADS) WHERE VOICE INTELLIGIBILITY IS REQUIRED, VOICE COMMUNICATIONS SYSTEMS SHALL REPRODUCE PRERECORDED, SYNTHESIZED, OR LIVE MESSAGES WITH VOICE INTELLIGIBILITY.

GG. NFPA 72 (2016) 24.3.2.1 ALL USERS OF SYSTEMS THAT HAVE MICROPHONES FOR LIVE VOICE ANNOUNCEMENTS SHALL BE PROVIDED WITH POSTED INSTRUCTIONS FOR USING THE MICROPHONE.

HH. NFPA 72 (2016) 7.7.2.1 WITH EVERY NEW SYSTEM, A DOCUMENTATION CABINET SHALL BE INSTALLED AT THE SYSTEM CONTROL UNIT OR AT ANOTHER APPROVED LOCATION AT THE PROTECTED PREMISES.

II. NFPA 72 (2016) SEC.7.7.2.2 ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET.

JJ. PROJECT INSPECTOR SHALL FIELD VERIFY CORRECT CANDELA SETTINGS ON STROBES DUE TO FIELD ADJUSTABILITY.

DRAWING LIST

SHEET NUMBER	SHEET NAME
F0.01	LEGEND, ABBREVIATIONS, AND GENERAL NOTES - FIRE ALARM
F1.01	SITE PLAN - FIRE ALARM
FD2.01	DEMOLITION FLOOR PLANS – BLDGS A & E - FIRE ALARM
FD2.02	DEMOLITION FLOOR PLANS – BLDG B - FIRE ALARM
F2.01	OVERALL FLOOR PLANS – BLDGS A & E - FIRE ALARM
F2.02	OVERALL FLOOR PLAN – BLDG B
F5.01	BATTERY CALCULATIONS
F5.02	RISER DIAGRAM - FIRE ALARM
F6.01	DETAILS - FIRE ALARM

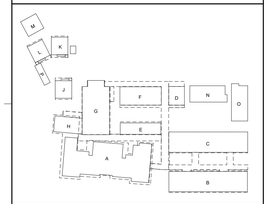
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Revisions

No.	Revisions	By	Date	Appr.

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03/11/2019

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

LEGEND, ABBREVIATIONS, AND GENERAL NOTES - FIRE ALARM

Client Project Number: Client Proj. #

Scale: 12" = 1'-0"
Drawn By: Integral Group
Checked By: Integral Group
Issue Date: 03/11/19
Revit Version: 2017

Sheet **F0.01**

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GRAPHIC SCALES: 1/16" = 1'-0" (0 5' 50') | 1/8" = 1'-0" (0 5' 25') | 1/4" = 1'-0" (0 1' 12') | 1/2" = 1'-0" (0 1' 6') | 3/4" = 1'-0" (0 4') | 1" = 1'-0" (0 1' 3') | 1 1/2" = 1'-0" (0 2') | 3" = 1'-0" (0 1')

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

FIRE CONDUIT SCHEDULE

TAG	QUANTITY	CONDUIT (IN)	USE	REMARKS
1	1	1	FIRE ALARM (SIGNAL)	RUN CONDUIT UNDER (E) CANOPY- SEE FIRE ALARM PLANS FOR ROUTING & CONDUIT REQ'T
2	1	1	FIRE ALARM (SPARE)	RUN CONDUIT UNDER (E) CANOPY- SEE FIRE ALARM PLANS FOR ROUTING & CONDUIT REQ'T



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

GENERAL NOTES

A. THERE SHALL BE NO UNDERGROUND SPLICES, U.O.N.

B. LABEL IN-GRADE FIRE ALARM PULL BOXES AS "FIRE ALARM".

C. ALL EXTERIOR UNDERGROUND FIRE ALARM CONDUIT SHALL BE A MINIMUM 1", U.O.N.

D. CONCEAL ALL CONDUIT TO THE EXTENT POSSIBLE.

E. AREA MAY CONTAIN EXISTING UNDERGROUND SYSTEMS. CONTRACTOR SHALL LOCATE AND COORDINATE CONDUIT ROUTES WITH EXISTING UNDERGROUND SYSTEMS PRIOR TO COMMENCING WORK.

F. CONNECT ALL POST-INDICATOR-VALVES, WATER FLOW TAMPER SWITCHES, AND BACKFLOW PREVENTORS VIA ADDRESSABLE MODULE.

G. CONDUIT PATH SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH BUILDING TO DETERMINE CONDUIT ROUTE. ALL FIRE ALARM ROUTES SHALL BE ROUTED IN CONDUIT.

H. DIRECT BORE UNDER DRIVEWAY. COORDINATE WITH EXISTING UNDERGROUND SYSTEMS AND BORE ROUTE PRIOR TO BORING.

I. FIRE ALARM CONDUITS SHALL SHARE A TRENCH WITH OTHER COMMUNICATION SYSTEMS. SEE ELECTRICAL SITE PLAN FOR MORE INFORMATION.

SHEET NOTES

1. CHRISTY #N16 STEEL TRAFFIC RATED PULL BOX. LABEL "FIRE ALARM".
2. (E) FACP (MXL-IQ), DONE UNDER DSA APPLICATION # 01-116642. TO BE REMOVED AFTER 2018 MODERNIZATION. RUN (E) FACP CABLES PREVIOUSLY CONNECTED TO THIS PANEL TO NEW PANEL- RE-USE (E) CONDUITS IF IN GOOD CONDITION.
   TRANSFER ALL LOADS FROM (E) FACP TO (N) FACP IN ELECTRICAL ROOM-1 (E03-1) VIA MIGRATION CARD.
3. (E) CONDUIT. RUN NEW CABLES TO (N) DEVICES IN BUILDING B RESTROOMS.

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Revisions

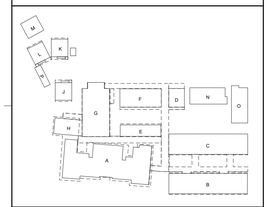
No.	Revisions	By	Date	Appr.

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03/11/2019

DSA APPROVAL

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

SITE PLAN - FIRE ALARM

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: Integral Group
Checked By: Integral Group
Issue Date: 03/11/19
Revit Version: 2017

Sheet **F1.01**

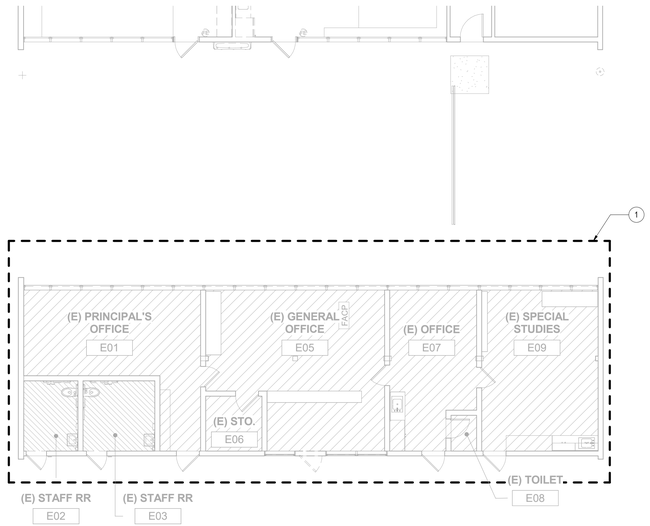
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DEMOLITION GENERAL NOTES

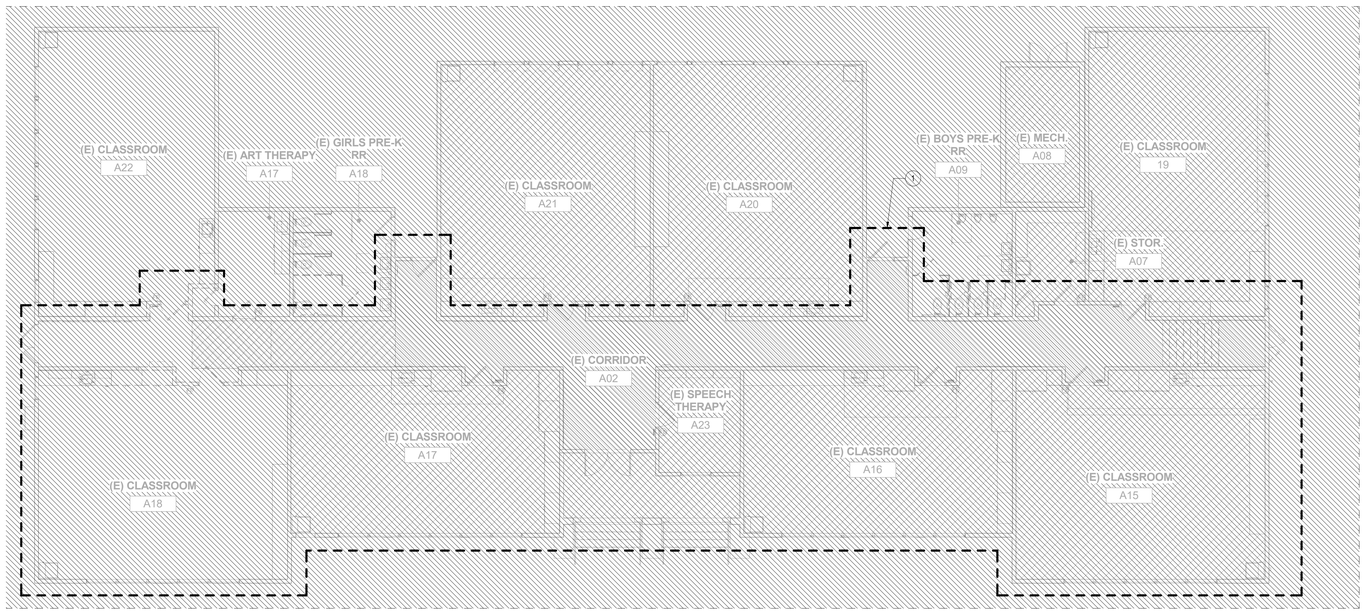
A. EXISTING FIRE ALARM DEVICES TO REMAIN UNLESS OTHERWISE NOTED.



2 **DEMOLITION FLOOR PLAN - BUILDING E - FIRE ALARM**
1/8" = 1'-0"

SHEET NOTES

1. DEMOLISH FIRE ALARM DEVICES FOR NEW WORK, THIS AREA. FACP (INCREMENT 1) IN BLDG E TO REMAIN.



1 **DEMOLITION PLAN - BUILDING A - FIRE ALARM**
1/8" = 1'-0"

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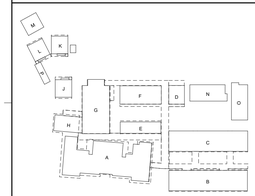
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35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

DEMOLITION FLOOR PLANS – BLDGS A & E - FIRE ALARM

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: Integral Group
Checked By: Integral Group
Issue Date: 03/11/19
Revit Version: 2017

Sheet **FD2.01**

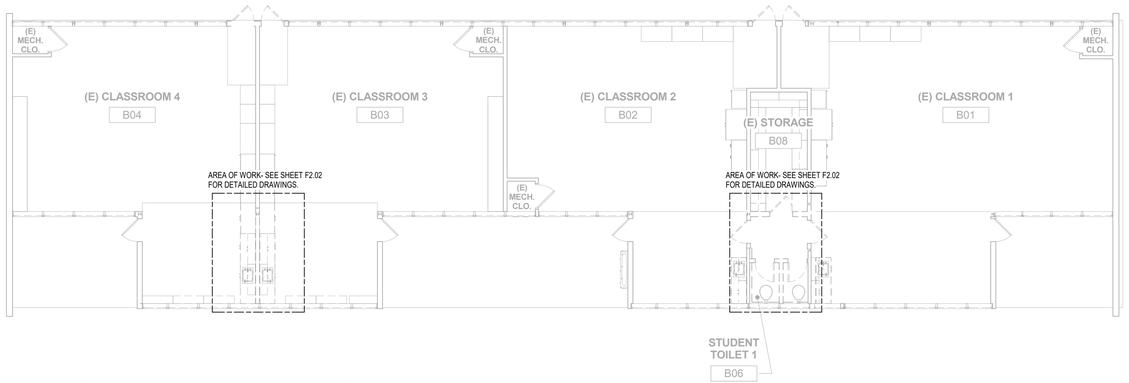
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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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DEMOLITION GENERAL NOTES

A. EXISTING FIRE ALARM DEVICES TO REMAIN UNLESS OTHERWISE NOTED.



3 DEMOLITION FLR PLAN - BUILDING B - FIRE ALARM

1/8" = 1'-0"

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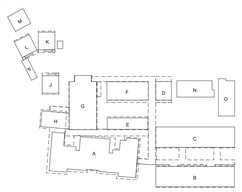
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DEMOLITION FLOOR PLANS – BLDG B - FIRE ALARM

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0 5' 50' | 0 5' 25' | 0 1' 12' | 0 1' 6' | 0 4' | 0 1' 3' | 0 2' | 0 1'

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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B. EXISTING NOTIFICATION POWER SUPPLIES TO BE REMOVED. TRANSFER (E) CIRCUITS TO (N) FACP.

C. ALL DETECTION CIRCUITS SHALL USE TWO (2) #16AWG, UNLESS OTHERWISE NOTED

D. SEE VOLTAGE DROP CALCULATIONS FOR NOTIFICATION CIRCUIT CABLE QUANTITY AND SIZE.

E. IN FINISHED INTERIOR AREAS, RUN ALL CONDUITS CONCEALED, UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.

F. FOR RACEWAY IN NON-ACCESSIBLE LOCATIONS, USE EXPOSED WIREMOLD V700 SERIES SURFACED MOUNTED RACEWAYS.

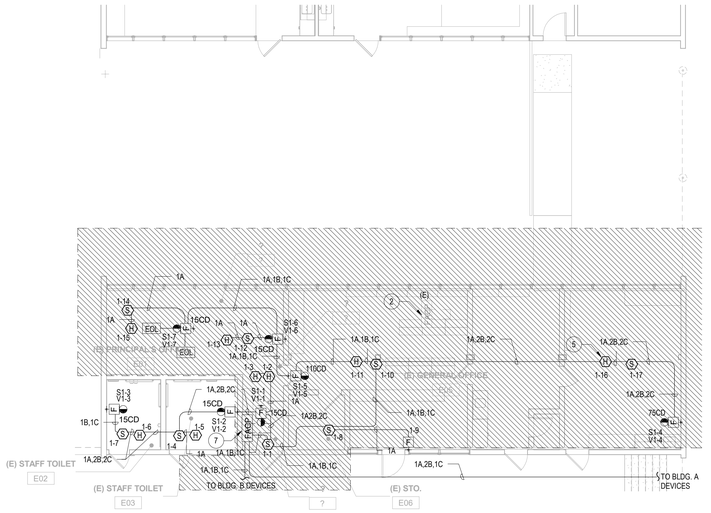
G. ALL INTERIOR FIRE ALARM CONDUIT SHALL BE 3/4", UNLESS OTHERWISE NOTED.

H. THERE SHALL BE NO ROOF PENETRATIONS WITHIN 5'-0" OF FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

I. MAINTAIN ALL SPACING AND PENETRATION REQUIREMENTS THROUGH FIRE RATED OR AREA SEPARATION WALLS. VERIFY EXACT LOCATIONS OF THESE WALLS WITH ARCHITECTURAL DRAWINGS.

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K. REMOVE/DISCONNECT (E) FIRE ALARM RELAY TO FIRE SHUTTERS.

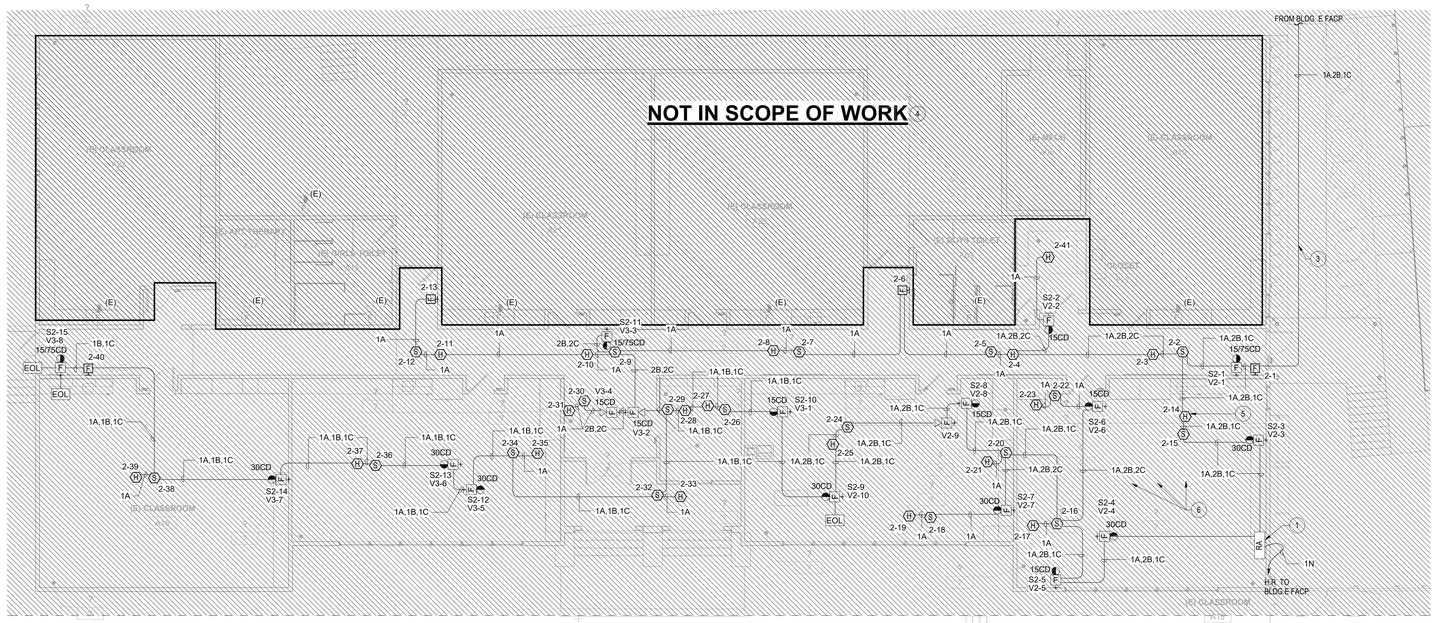


2 FLOOR PLAN - BUILDING E - FIRE ALARM

1/8" = 1'-0"

SHEET NOTES

NOT IN SCOPE OF WORK 4

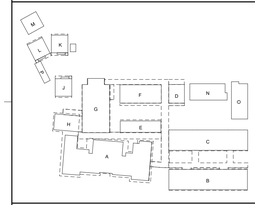


1 FLOOR PLAN - BUILDING A - FIRE ALARM

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MARTIN ELEMENTARY SCHOOL MODERNIZATION

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OVERALL FLOOR PLANS – BLDGS A & E - FIRE ALARM

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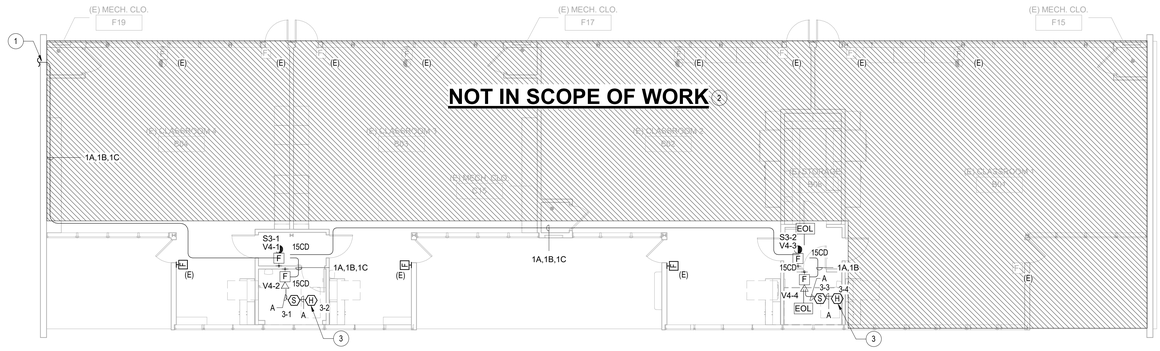
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FLOOR PLAN - BUILDING B - FIRE ALARM

1/8" = 1'-0"

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J. EXISTING DEVICES ARE NOTED WITH AN (E). THESE DEVICES TO REMAIN.

K. REMOVE/DISCONNECT (E) FIRE ALARM RELAY TO FIRE SHUTTERS.

SHEET NOTES

1. ALL UNDERGROUND CABLE (AQUA-SEAL) TO BE RATED FOR UNDERGROUND USE.
2. THIS AREA IS NOT INCLUDED IN THIS SCOPE OF WORK. DEVICES IN THIS AREA TO REMAIN OPERATIONAL DURING PHASE 2 CONSTRUCTION.
3. HEAT DETECTORS LOCATED IN ACCESSIBLE CEILING SPACE (TY.). PROVIDE ACCESS HATCH FOR HEAT DETECTOR (COORDINATE WITH ARCHITECT).

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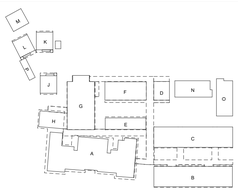
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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

OVERALL FLOOR PLAN – BLDG B - FIRE ALARM

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MAIN XLSV (BLDG E) BATTERY CALCULATION

SUPERVISORY CURRENT

DESCRIPTION	QTY	MODULE CURRENT	EOL CURRENT	DEVICE CURRENT	TOTAL ROW CURRENT
MLC MXL LINE CARD	2	0.12			0.24
1.5mA per Device (120 Devices per MLC)	2			0.18	0.36
CRC-6 CONTROLLABLE RELAY CARD	1	0.051			0.051
20.5mA per Active Relay	3			0.02	0.06
DAC-NET DIGITAL AUDIO CARD NETWORK	1	0.23			0.23
DLC DEVICE LOOP CARD	1	0.145			0.145
LPB LOCAL PAGE BOARD	1	0.1			0.1
LVM LIVE VOICE MODULE	1	0.025			0.025
NIC-C NETWORK INTERFACE CARD	1	0.12			0.12
PMI-3 PERSON MACHINE INTERFACE	1	0.23			0.23
PSC-12 PWR SUPPLY CHARGER MODULE	1	0.15			0.15
20mA per Active Relays	2			0.04	0.08
PSX-12 POWER SUPPLY EXTENDER	1	0.15			0.15
RNI REMOTE NETWORK INTERFACE	0	0.075			0.075
SCM-8 SWITCH CONTROL MODULE	1	0.014			0.014
1mA per LED (8 LED per Module)	8			0.008	0.064
SSD/SSD-C SYSTEM STATUS DISPLAY	1	0.2			0.2
ZAC-40 ZONE AMPLIFIER CARD 40 WATTS	3	0.15			0.45
# Speaker Circuits	3		0.001		0.003
ZIC-4A ZONE INDICATING CARD	5	0.089			0.445
# NAC CIRCUITS	20		0.004		0.08
TOTAL CURRENT					**3.272**

ALARM CURRENT

DESCRIPTION	QTY	MODULE CURRENT	TOTAL CKT CURRENT LOAD
DAC-NET DIGITAL AUDIO CARD NETWORK	1	0.23	0.23
NIC-C NETWORK INTERFACE CARD	1	0.12	0.12
PMI-PERSON MACHINE INTERFACE	1	0.23	0.23
PSC-12 POWER SUPPLY MODULE	1	0.23	0.23
PSX-12 POWER SUPPLY EXTENDER	1	0.15	0.15
LVM LIVE VOICE MODULE	1	0.025	0.025
ZIC-4A ZONE INDICATING CARD	5	0.068	0.34
SCM-8 SWITCH CONTROL MODULE	1	0.014	0.014
			0
PSC-12 / 5.133		CIRCUIT V1	0.856
		CIRCUIT V2	0.776
		CIRCUIT V3	0.614
		CIRCUIT A1	0.306
		CIRCUIT A2	0.286
		CIRCUIT A3	0.268
		CIRCUIT A4	0.364
		CIRCUIT V9	0.324
		CIRCUIT V4	0.256
		TOTAL ALARM CURRENT (AMPS)	**5.389**

SUMMARY

A = TOTAL SUPERVISORY CURRENT x SUPERVISORY TIME REQUIRED
3.272 AMPS x 4 HR
= **78.528** (AMP/HR)

B = TOTAL ALARM CURRENT x ALARM TIME REQUIRED
5.389 AMPS x 15 MINS.
= **1.347** (AMP/HR)

C = (A + B) x 1.2 (20% Safety Margin)
= **95.850** (AMP/HR)

SUPERVISORY TIME REQUIRED---------- 24 HR
ALARM TIME REQUIRED-------15 MINS. or .25 HR

BATTERY PROVIDED..... **DCM0090 (2)**
BATTERY SIZE..... **90** (AMP/HR)

TOTAL SYSTEM REQUIRED (A/H)
= **95.850** **AMP/HOUR**

BATTERY RESERVE AFTER
24 HOURS SUPERVISORY
& 15 MINUTES ALARM (AMP/HOUR)

= **-5.850** **AMP/HOUR**

GENERAL NOTES

A. TOTAL LOAD FOR MAIN XLSV PANEL IS CALCULATED USING ONLY 1 SET OF 90 A/H BATTERIES. FIELD CONDITIONS USE 2 SETS OF 90 A/H BATTERIES, AND THE LOAD IS SPLIT BETWEEN THE 2 SETS.
FINAL LOAD CALCULATIONS WILL BE DONE BY SIEMENS TECHNICIAN & WILL BE REFLECTED ON THE AS-BUILT DRAWINGS.

		UL CURRENT RATINGS (WALL, STROBE ONLY) MAX. RMS CURRENT (AMPS) @24VDC					
		SEFH-MC		SEFH-MC		SEFH-HMC	
		15cd	30cd	75cd	110cd	135cd	185cd
DC	16-33 VRMS	0.064	0.098	0.175	0.233	0.318	0.445

VOLTAGE DROP CALCULATION (Using #14 AWG Wire)

CKT	DISTANCE (ft.)	CURRENT LOAD (amps)	VOLTAGE DROP (%)	OPERATING VOLTAGE (16-33 VOLTS)
V1	245	0.856	4.337	22.96
V2	305	0.776	4.895	22.83
V3	735	0.614	9.333	21.76
V4	1245	0.256	6.592	22.42

VOLTAGE DROP CALCULATIONS (WORST CASE SHOWN)

FORMULA: VOLTAGE DROP CALCULATIONS (FOR A GIVEN LENGTH OF CONDUCTOR) = $\frac{I \times D \times 20.4}{C.M.}$

WHERE:
I = AMPERES PER TERMINAL LOAD
D = ONE WAY DISTANCE OF CONDUCTOR (IN FEET) MEASURED FROM SOURCE OF SUPPLY TO LOAD
20.4 = CONSTANT (RESISTANCE OF CONDUCTORS AT 10.8 OHMS PER L.M. FOR TWICE THE LENGTH)
C.M. = CROSS SECTIONAL AREA IN CIRCULAR MILS (SEE TABLE AT RIGHT)

WIRE SIZE	CIRCULAR MILS (C.M.)
12 AWG	6530
14 AWG	4110
16 AWG	2580
18 AWG	1620
20 AWG	1020

GIVEN:
CIRCUIT DESIGNATION = V3
APPROX. LENGTH OF CONDUCTOR = 735 FEET
CURRENT LOAD = 0.614
WIRE SIZE USED = 14 AWG

VOLTAGE DROP = $\frac{0.614 \times 735 \times 20.4}{4110} = \frac{9206.316}{4110}$ = 2.240 VOLTS

% OF VOLTAGE DROP = $\frac{2.240 \text{ VOLTS}}{24 \text{ VOLTS}}$ = 0.093332 or 9.333 %

NOTES:
1. THE OPERATING VOLTAGE OF DEVICE USED IS 18 TO 31 VDC. THE RESULTING VOLTAGE DROP IS WITHIN THIS OPERATING RANGE.
2. PERMISSIBLE VOLTAGE DROP IS 10% OR LESS

MAIN XLSV - MLC LOOP SCHEDULE

LOOP NUMBER	MODULE	LOOP DESCRIPTION	LOCATION
LOOP 1	MLC #1	EXISTING INITIATION DEVICES	EXISTING BUILDINGS A, B, C, D, E, F, G, 1, 2, & 3
LOOP 2	MLC#1	EXISTING INITIATING DEVICES	EXISTING BUILDING P
LOOP 1	DLC #1	NEW INITIATION DEVICES	BUILDING A
LOOP 2	DLC#1	NEW INITIATING DEVICES	BUILDING E
LOOP 3	DLC#1	NEW INITIATING DEVICES	BUILDING B

MAIN XLSV - NAC CIRCUIT SCHEDULE

CIRCUIT DESIGNATION	CARD TYPE	CIRCUIT DESCRIPTION	LOCATION
A1	ZIC-4A #1-1	EXISTING HORN CIRCUIT	UNIT F, UNIT D/UNITS 1, 2, & 3
A2	ZIC-4A #1-2	EXISTING HORN CIRCUIT	UNIT E/ UNIT B/ UNIT C
A3	ZIC-4A #1-3	EXISTING HORN CIRCUIT	UNIT G
A4	ZIC-4A #1-4	EXISTING STROBE CIRCUIT	UNIT A
V9	ZIC-4A #2-1	EXISTING STROBE CIRCUIT	BUILDING P
V1	ZIC-4A #2-2	NEW STROBE CIRCUIT	BUILDING E
V2	ZIC-4A #2-3	NEW STROBE CIRCUIT	BUILDING A
V3	ZIC-4A #2-4	NEW STROBE CIRCUIT	BUILDING E
V4	ZIC-4A #3-1	NEW STROBE CIRCUIT	BUILDING B

MAIN XLSV - SPEAKER CIRCUIT SCHEDULE

CIRCUIT DESIGNATION	CARD TYPE	CIRCUIT DESCRIPTION	LOCATION
S1-1	ZAC-40 #1-1	EXISTING SPEAKER CIRCUIT	BUILDING P
S1-2	ZAC-40 #1-2	EXISTING SPEAKER CIRCUIT	BUILDING P
S1-3	ZAC-40 #1-3	EXISTING SPEAKER CIRCUIT	BUILDING P
S1-4	ZAC-40 #1-4	EXISTING SPEAKER CIRCUIT	BUILDING P
S1-5	ZAC-40 #1-5	EXISTING SPEAKER CIRCUIT	BUILDING P
S1-1	ZAC-40 #1-1	NEW SPEAKER CIRCUIT	BUILDING E
S2-1	ZAC-40 #1-2	NEW SPEAKER CIRCUIT	BUILDING A
S3-1	ZAC-40 #1-3	NEW SPEAKER CIRCUIT	BUILDING B

NOTES: ALL SPEAKERS SHALL BE TAP @ 70 VRMS AND 1/2 WATT UNLESS OTHERWISE NOTED ON THE FLOOR PLAN TOTAL WATTS WILL BE 2.5W.

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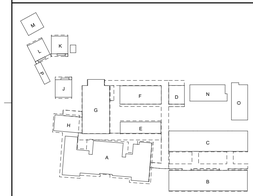
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BATTERY CALCULATIONS

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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SYMBOLS LIST NEW

- (N) F — NEW MANUAL PULL STATION
- (N) S — NEW SMOKE DETECTOR
- (N) H — NEW HEAT DETECTOR
- (N) F — NEW SPEAKER/STROBE (WALL MOUNTED)
- (N) F — NEW STROBE (WALL MOUNTED)

SYMBOLS LIST EXISTING

- (E) S — EXISTING SMOKE DETECTOR
- (E) F — EXISTING MANUAL PULL STATION
- (E) F — EXISTING STROBE (WALL MOUNTED)
- (E) F — EXISTING HORN/STROBE (WALL MOUNTED)
- WP (E) F — EXISTING WEATHERPROOF HORN (WALL MOUNTED)

MISC. SYMBOLS & ABBREVIATION

- (E) — EXISTING FIRE ALARM DEVICE
- (N) — NEW FIRE ALARM DEVICE
- FACP — FIRE ALARM TERMINAL CABINET (PULL BOX) PROVIDED BY INSTALLING CONTRACTOR
- EXISTING FIRE ALARM WIRING
- NEW FIRE ALARM WIRING

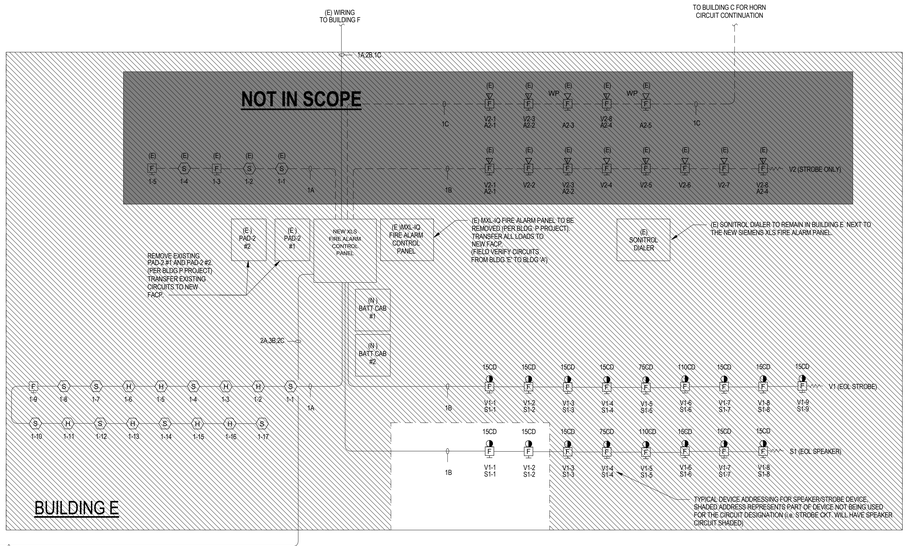
GENERAL NOTES

A. ALL FIRE ALARM DEVICES ARE NEW UNLESS OTHERWISE NOTED.

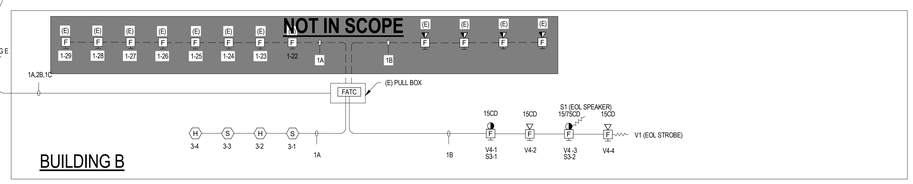
B. THE (N) FACP IS THE INITIATING DEVICE FOR THE NEW BUILDINGS. THE (N) FACP INDICATES THE STATUS OF THE FIRE ALARM DEVICES IN THE NEW BUILDINGS. THE (N) FACP IS THE LOCATION TO RESET ALL DOWN STREAM FIRE ALARM PANELS, EQUIPMENT AND DEVICES (REMOTE AMPLIFIERS, SLC, NOTIFICATION CIRCUITS, SMOKE AND HEAT DETECTORS, AND ETC).

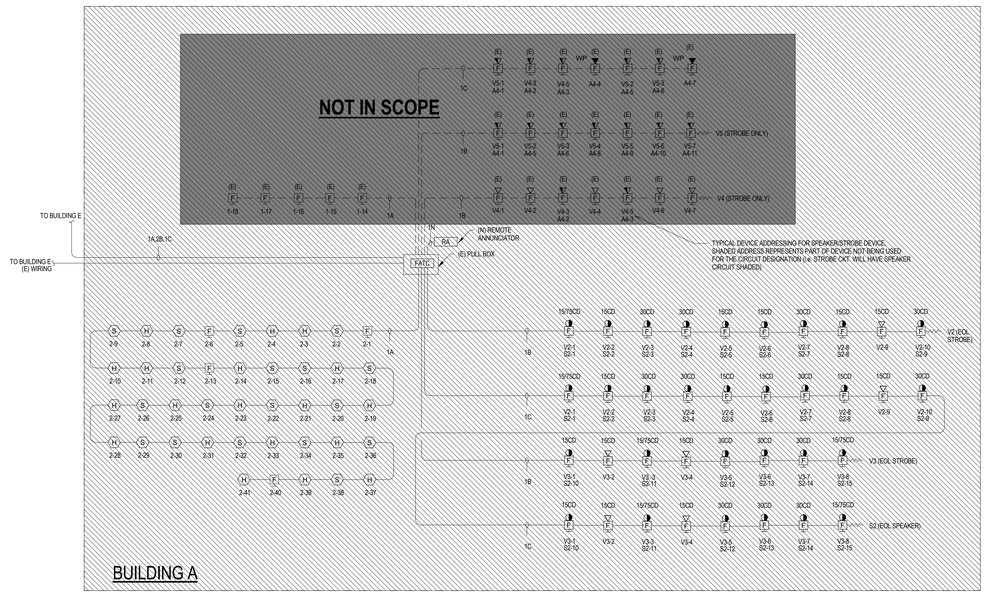
C. EXISTING DEVICE INFORMATION FROM APPLICATION # 01-100218

D. SHADED AREAS ARE NOT IN SCOPE OF WORK.



THE CONTRACTOR SHALL RUN NEW WIRING (2 DETECTION CIRCUITS (WIRE A) AND 5 NOTIFICATIONS CIRCUITS (WIRE B; (3) STROBE, (2) VOICE) FROM NEW XLSV FA CONTROL PANEL LOCATED AT BUILDING A. ALL UNDERGROUND WIRING MUST BE RATED FOR UNDERGROUND USE "AQUA SEAL".





NEW XLSV WIRING SCHEDULES

SYMBOL	RECOMMENDED WIRE TYPE	USED ON
1A	2-CONDUCTOR, #16 AWG SOLID TWISTED, SHIELDED CABLE	ADDRESSABLE ALARM INITIATING DEVICES: - SMOKE DETECTORS - HEAT DETECTORS
1B	2-CONDUCTOR, #14 AWG SOLID, THHN	NOTIFICATION APPLIANCE CIRCUIT: - STROBES
1C	2-CONDUCTOR, #14 AWG TWISTED NON SHIELDED	NOTIFICATION APPLIANCE CIRCUIT: - SPEAKERS
1G	2-CONDUCTOR, #16 AWG SOLID, THHN	HTRI & FDCIO to MONITORED DEVICES: - WATERFLOW SWITCH - TAMPER SWITCH - POST INDICATOR VALVE (PIV) - POWER SUPERVISORY RELAY (PSR) - RSM-2 TEST SWITCH - 5129 DIGITAL FIRE COMMUNICATOR
1H	2-CONDUCTOR, #16 AWG SOLID TWISTED SHIELDED CABLE	"H-NET" - XLS NETWORK WIRING: - MODULES that "SPEAK" H-NET: - PMI/CPU, CPC to (ZIC, CDC, CRC, RPM, DLC, PSC, PSX, NIC-C, SSD, RNI)
1N	2-CONDUCTOR, #16 AWG SOLID TWISTED, SHIELDED CABLE	REMOTE ANNUNCITATOR
1P	2-CONDUCTOR, #14 AWG SOLID, THHN	NOTIFICATION APPLIANCE CIRCUIT: - PAD-2 ACTIVATION CIRCUIT
1V	2-CONDUCTOR, #16 AWG SOLID TWISTED NON-SHIELDED CABLE	"D-NET" - VOICE NETWORK WIRING: - DISTRIBUTED AMPLIFICATION - MODULES that "SPEAK" D-NET: (DAC-NET to DAC-NET)
120 VAC	2-CONDUCTOR WITH GROUND #12 AWG SOLID, THHN COLOR TO MATCH NEC	120 VAC POWER TO CONTROL UNITS: - MAIN XLSV FACU - REMOTE XLSV FACU - PS-8 NAC EXTENDER PANEL

NOTE: ALL UNDERGROUND CABLE MUST BE RATED FIRE ALARM "AQUA SEAL" CABLE.

EXISTING MXL WIRING SCHEDULES

WIRING SYMBOL	RECOMMENDED WIRE TYPE	USED ON
1A	#16 AWG MINIMUM SOLID COPPER (THHN) (SHIELDED OPTIONAL)	FIRE ALARM INITIATING DEVICE(S): -MANUAL PULL STATION -TRI INTERFACE MODULE -DUCT DETECTOR -SMOKE DETECTOR
1B	2#14 AWG SOLID COPPER (THHN)	FIRE ALARM INDICATING DEVICE(S): -STROBE
1C	2#14 AWG SOLID COPPER (THHN)	FIRE ALARM INDICATING DEVICE(S): -HORN

NOTE: VERIFY EXACT WIRING USED FOR THE EXISTING FIRE ALARM FIELD DEVICES ON THE FIELD.

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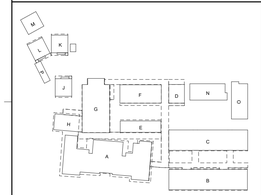
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HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

RISER DIAGRAM - FIRE ALARM

Client Project Number: Client Proj. #

Scale: 12" = 1'-0"
Drawn By: Integral Group
Checked By: Integral Group
Issue Date: 03/11/19
Revit Version: 2017

Sheet **F5.02**

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GRAPHIC SCALES: 1/16" = 1'-0" (0 5' 50') | 1/8" = 1'-0" (0 5' 25') | 1/4" = 1'-0" (0 1' 12') | 1/2" = 1'-0" (0 1' 6') | 3/4" = 1'-0" (0 4') | 1" = 1'-0" (0 1' 3') | 1 1/2" = 1'-0" (0 2') | 3" = 1'-0" (0 1')

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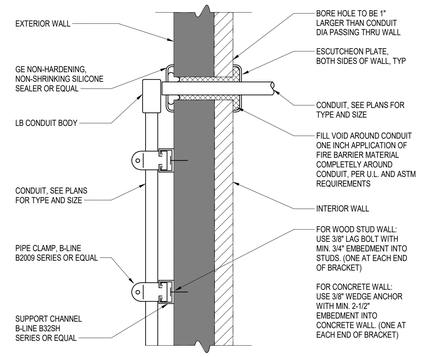
DEVICE DESIGNATION LEGEND

INITIATING DEVICES

EXAMPLES: (S) 1 - 1
- DEVICE REFERENCE NUMBER
- INITIATING LOOP DESIGNATION
- DEVICE SYMBOL (SMOKE DETECTOR)

NOTIFICATION DEVICES (HORN / STROBE)

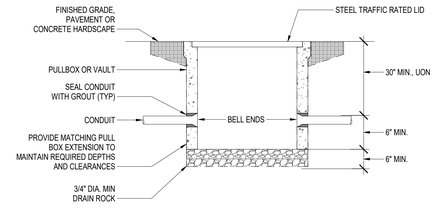
EXAMPLES: (F) 15/75CD A1 - 1
- DEVICE REFERENCE NUMBER
- CIRCUIT DESIGNATION
- DEVICE SYMBOL (SMOKE DETECTOR)



NOTES:

1. SIMILAR TO U.L. FIRE RESISTANT DIRECTORY SYSTEM W-J-1027.
2. ALL COMPONENTS SHALL BE GALVANIZED.
3. ALL CONDUIT FITTINGS SHALL BE THREADED.
4. INSURE BENDING RADIUS PER TIA/EIA STANDARDS.

6 FA EP - LB BODY THROUGH EXTERIOR WALL
N.T.S.



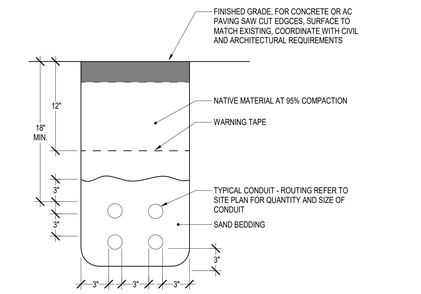
DETAIL NOTES:

A. SEE DRAWING FOR SIZE AND MANUFACTURER.

B. FOR METALLIC LIDS PROVIDE GROUND ROD AND #6CU BARE COPPER CABLE WITH LISTED GROUNDING LUGS AND SEVERAL FEET MIN. SLACK TO ALLOW FOR REMOVAL OF LID AND WORKING CLEARANCE FOR MAINTENANCE.

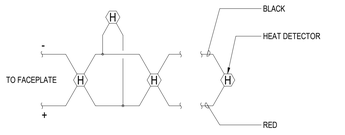
C. FOR CONCRETE LIDS, DO NOT PROVIDE GROUNDING SYSTEM.

3 FA - PULLBOX DETAIL
N.T.S.

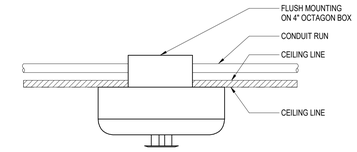


MAINTAIN A 1'-0" MINIMUM DISTANCE BETWEEN POWER AND DATA CONDUIT AT ALL TIMES

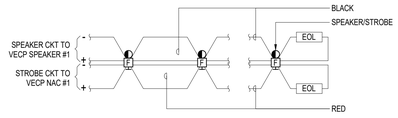
5 FA - FA CONDUIT IN TRENCH
N.T.S.



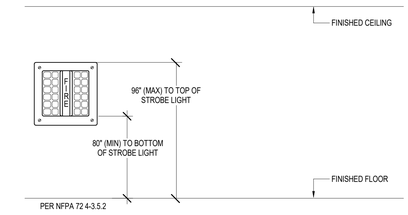
TYPICAL HEAT DETECTOR WIRING DIAGRAM



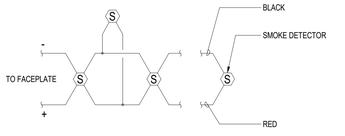
2 FA - ADDRESSABLE HEAT DETECTOR
N.T.S.



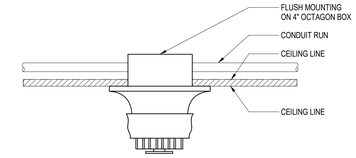
TYPICAL SPEAKER/STROBE WIRING DIAGRAM



4 FA - 4 WIRE SPEAKER/STROBE INSTALLATION
N.T.S.



TYPICAL SMOKE DETECTOR WIRING DIAGRAM



1 FA - ADDRESSABLE SMOKE DETECTOR
N.T.S.

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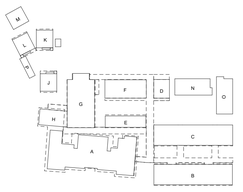
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HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

DETAILS - FIRE ALARM

Client Project Number: Client Proj. #

Scale: 12" = 1'-0"
Drawn By: Integral Group
Checked By: Integral Group
Issue Date: 03/11/19
Revit Version: 2017

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GENERAL NOTES

1. THE CONTRACTOR SHALL LAY OUT THE WORK, SETTING GRADE STAKES, ESTABLISHING LINES, BASE LINES, ELEVATIONS AND OTHER REFERENCE MARKERS AND INFORMATION NECESSARY TO COMPLETE THE WORK AND SHALL BE RESPONSIBLE FOR THE ACCURACY THEREOF.

2. ANY INCONSISTENCIES IN EXISTING OR PROPOSED ELEVATIONS SHALL BE BROUGHT TO THE NOTICE OF THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO CONSTRUCTION OR AS SOON AS DISCOVERED.

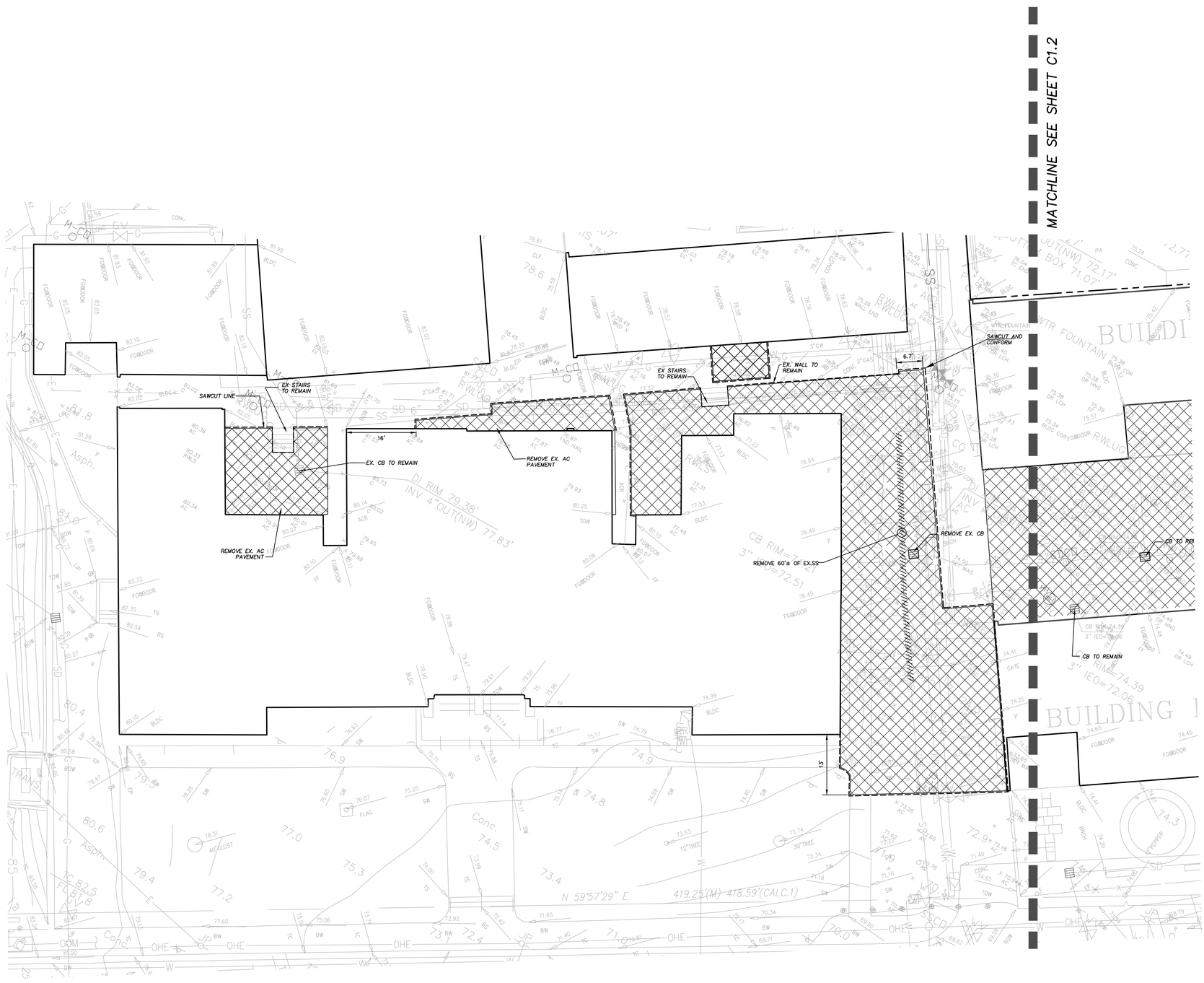
3. IN THE EVENT THAT ANY UNKNOWN UNDERGROUND TANKS OR STRUCTURES OR UTILITY LINES ARE DISCOVERED ON THE SITE, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE TO DETERMINE THE DISPOSITION OF THE STRUCTURE.

4. CONTRACTOR SHALL IMPORT REQUIRED MATERIALS OR EXPORT EXCESS AS REQUIRED TO ESTABLISH PLAN GRADES. EXCESS MATERIAL IF ANY SHALL BE DISPOSED OFF-SITE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.

5. EXISTING WATER, STORM AND SANITARY INVERTS SHALL BE EXPOSED AND VERIFIED PRIOR TO ANY NEW CONSTRUCTION.

THE FOLLOWING SECTIONS OF THE STANDARD SITE WORK SPECIFICATIONS FOR THE CONSTRUCTION OF THIS PROJECT ARE APPLICABLE TO THE WORK SHOWN ON THIS DRAWING:

SECTION 311000 – SITE CLEARING



DEMOLITION LEGEND

- REMOVE EXISTING PAVEMENT
- REMOVE EXISTING TREE
- XXXXXXXXXXXXXX REMOVE EXISTING CURB
- >>>>>>>>>>>>>> REMOVE EXISTING FENCE
- ////////// REMOVE EXISTING UNDERGROUND UTILITY
- —— —— LIMIT OF SITE DEMOLITION, CLEARING AND GRADING
- — — — — SAW CUT LINE
- ——x—— TEMPORARY CONSTRUCTION CHAIN LINK FENCE

AC	ASPHALT CONCRETE
AD	AREA DRAIN
CB	CATCH BASIN
CO	CLEAN OUT
CONC.	CONCRETE
EX., EXIST.	EXISTING
TYP.	TYPICAL

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 inch = 10 ft.

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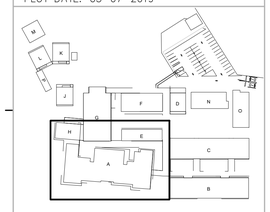
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PROJECT NO. J16102
PLOT DATE: 03-07-2019



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HY Architects Project number: 4539

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

PARTIAL SITE DEMOLITION PLAN

Client Project Number: Client Proj. #

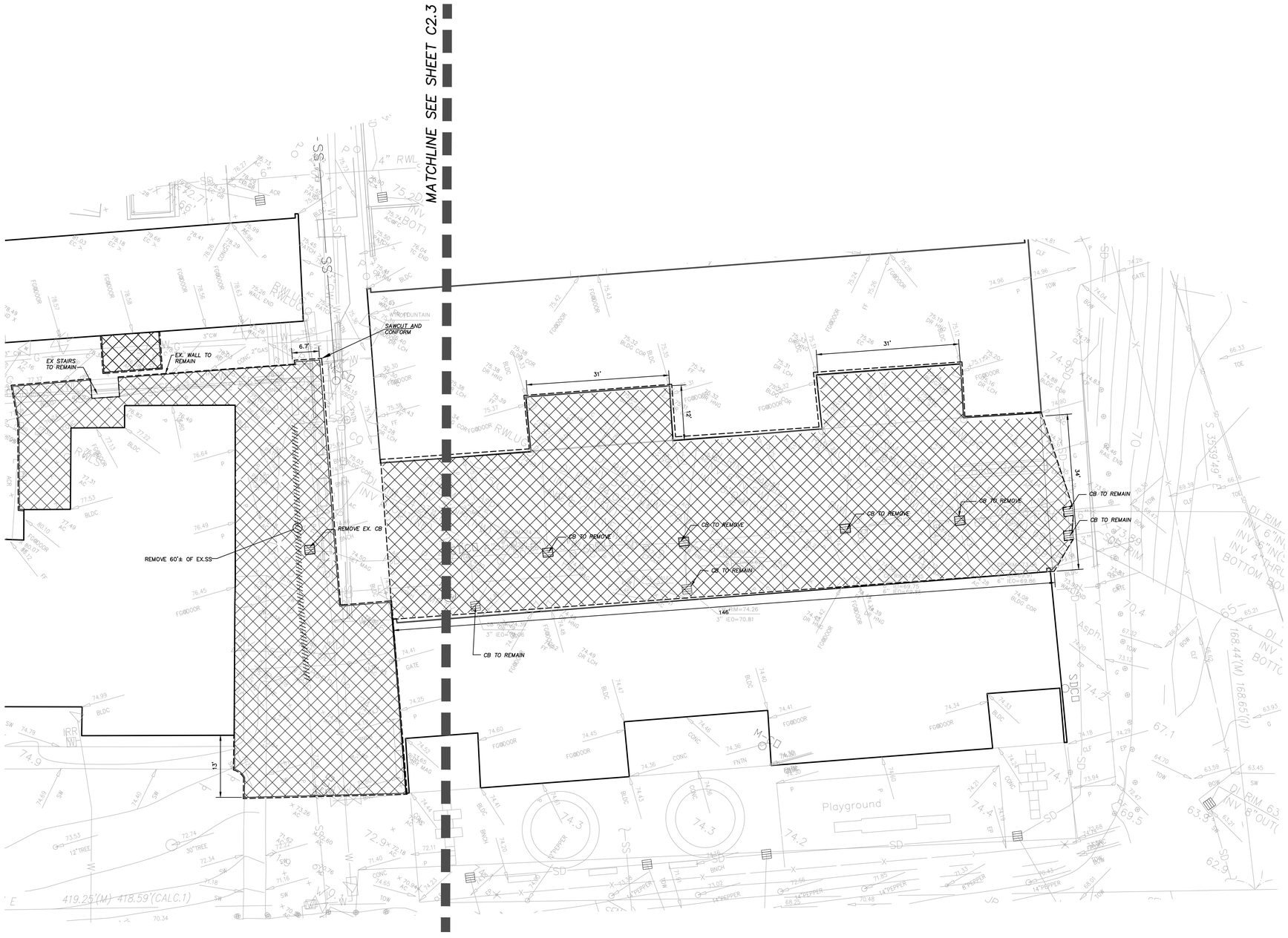
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Checked By: MS
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Revit Version: 2017

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SECTION 311000 – SITE CLEARING

DEMOLITION LEGEND

- REMOVE EXISTING PAVEMENT
- REMOVE EXISTING TREE
- XXXXXXXXXXXXXXX REMOVE EXISTING CURB
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AC	ASPHALT CONCRETE
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CONC.	CONCRETE
EX., EXIST.	EXISTING
TYP.	TYPICAL

GRAPHIC SCALE

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(IN FEET)

1 inch = 10 ft.

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PROJECT NO. J16102
PLOT DATE: 03-07-2019

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

PARTIAL SITE DEMOLITION PLAN

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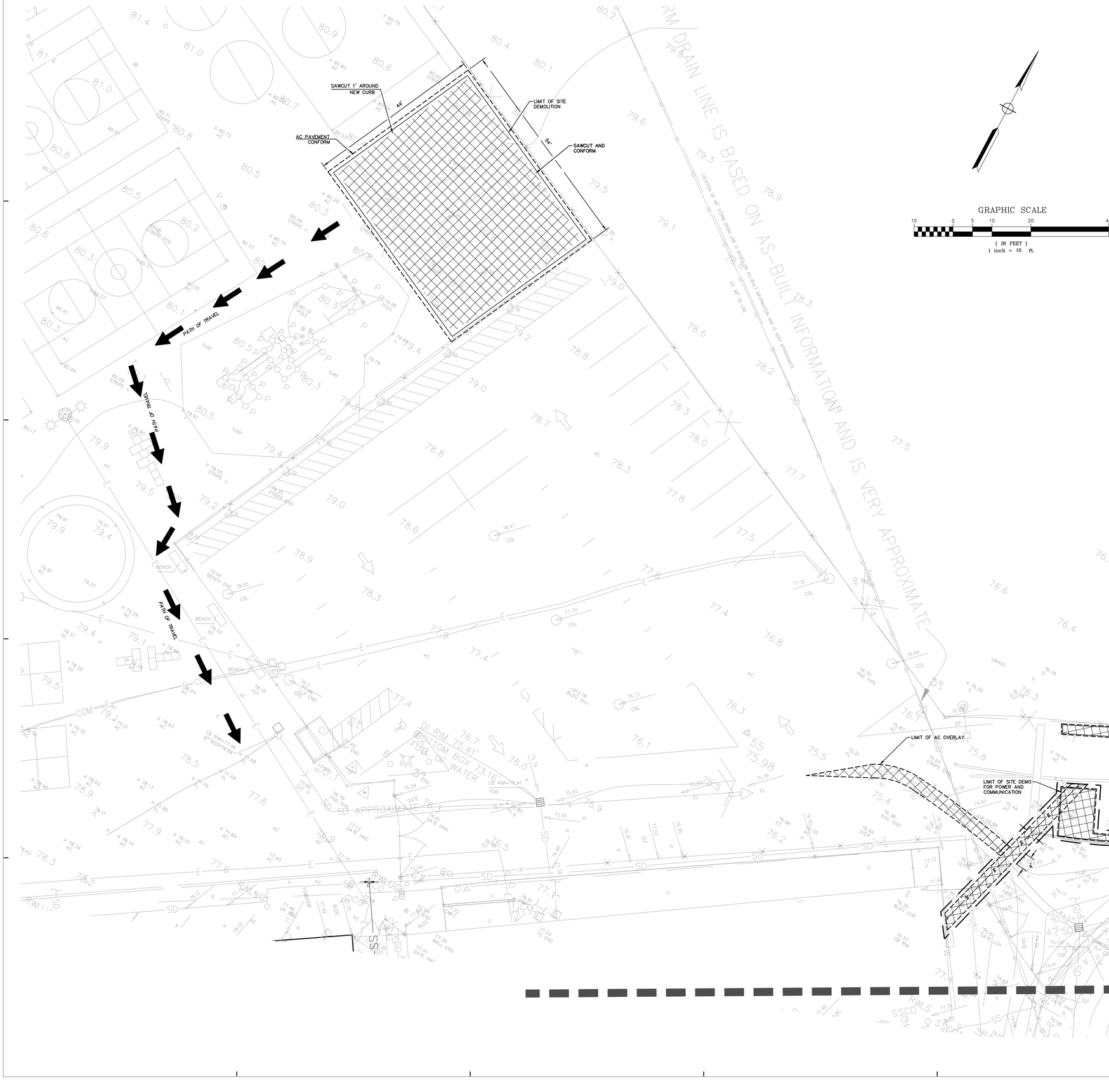
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Issue Date: 03/11/19
Revit Version: 2017

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GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

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5. EXISTING WATER, STORM AND SANITARY INVERTS SHALL BE EXPOSED AND VERIFIED PRIOR TO ANY NEW CONSTRUCTION.

THE FOLLOWING SECTIONS OF THE STANDARD SITE WORK SPECIFICATIONS FOR THE CONSTRUCTION OF THIS PROJECT ARE APPLICABLE TO THE WORK SHOWN ON THIS DRAWING:

SECTION 311000 – SITE CLEARING

DEMOLITION LEGEND

- REMOVE EXISTING PAVEMENT
- REMOVE EXISTING TREE
- XXXXXXXXXXXXXXX REMOVE EXISTING CURB
- >>>>>>>>>>>>>>> REMOVE EXISTING FENCE
- ////////////// REMOVE EXISTING UNDERGROUND UTILITY
- —— —— LIMIT OF SITE DEMOLITION, CLEARING AND GRADING
- – – – – – SAW CUT LINE
- ——x—— TEMPORARY CONSTRUCTION CHAIN LINK FENCE

AC	ASPHALT CONCRETE
AD	AREA DRAIN
CB	CATCH BASIN
CO	CLEAN OUT
CONC.	CONCRETE
EX., EXIST.	EXISTING
TYP.	TYPICAL

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Revisions

No.	Revisions	By	Date	Appr.

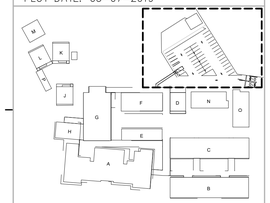
BID SET
NOT FOR CONSTRUCTION
03/11/2019

DSA APPROVAL

IDENTIFICATION STAMP
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DATE ____

UNDERWOOD & ROSENBLUM, INC.
civil engineers and surveyors
1630 Oakland Road, Suite A114, San Jose, CA 95131
(408) 453-1222
www.uandr.com

PROJECT NO. J16102
PLOT DATE: 03-07-2019



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Architect/Engineer Of Record

REGISTERED PROFESSIONAL ENGINEER · ANDREW T. SORENSON · No. C 67498 · Exp. 6-30-19 · CIVIL · STATE OF CALIFORNIA

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300 – 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

PARTIAL SITE DEMOLITION PLAN

Client Project Number: Client Proj. #

Scale: 1"=10'
Drawn By: CG
Checked By:MS
Issue Date: 03/11/19
Revit Version: 2017

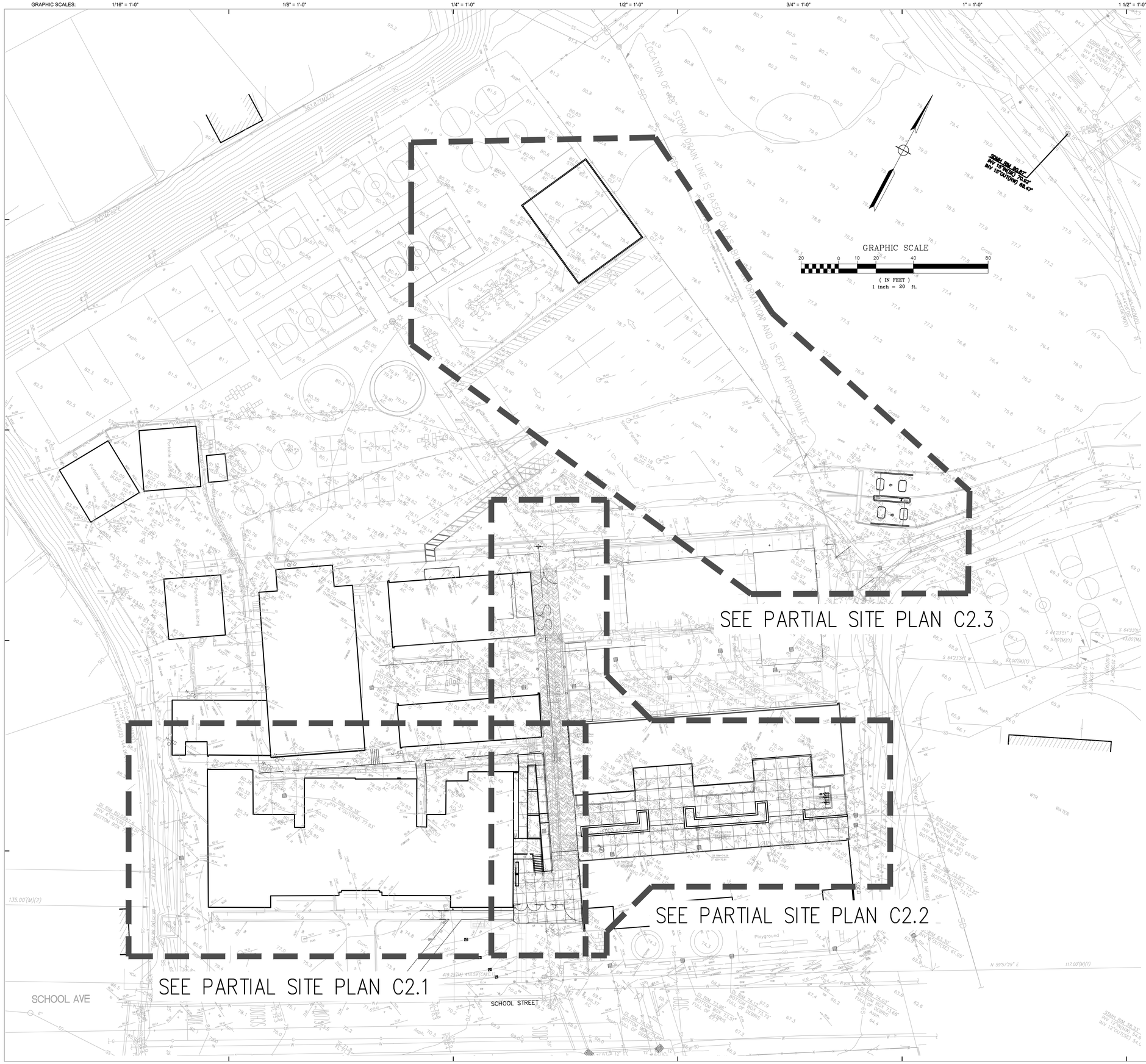
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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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THE FOLLOWING SECTIONS OF THE STANDARD SITE WORK SPECIFICATIONS FOR THE CONSTRUCTION OF THIS PROJECT ARE APPLICABLE TO THE WORK SHOWN ON THIS DRAWING:

SECTION 311000 – SITE CLEARING
SECTION 312000 – EARTHMOVING
SECTION 321216 – ASPHALT PAVING
SECTION 321312 – CONCRETE PAVING
SECTION 321309 – REINFORCING STEEL

ALL MODULAR BUILDING FOUNDATIONS AND VENT WELLS SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD PLANS & SPECIFICATIONS OF THE BUILDING MANUFACTURER.

GRADING & PAVING LEGEND

	NEW CONCRETE SLAB (4" REINFORCED PCC ON 4" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (90%))
3" ON 8"	NEW AC PAVEMENT (3" AC ON 8" CLASS 2 AB ON 8" RECOMPACTED SUBGRADE (95%))
3" ON 9"	NEW AC PAVEMENT – TRAFFIC (3" AC ON 9" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (95%))
	LIMIT OF GRADING
	SAW CUT LINE
	DRAINAGE FLOW LINE
	GRADE BREAK LINE
	RIDGE LINE
	NEW FENCE LINE
	NEW HANDRAIL
	NEW RETAINING WALL
99	FINISH GRADE CONTOUR
	NEW SANITARY SEWER (SIZE AS INDICATED) S=0.01 UNLESS OTHERWISE INDICATED
	NEW WATER LINE (SIZE AS INDICATED)
AC	ASPHALT CONCRETE
AD	AREA DRAIN
BW	BOTTOM OF WALL
C, PCC, CONC.	PORTLAND CEMENT CONCRETE
CB	CATCH BASIN
COTG/SDCO/SSCO	CLEAN OUT TO GRADE
EX., EXIST.	EXISTING
FF	FINISH FLOOR
FH	FIRE HYDRANT
FL	FLOW LINE
G	GROUND
GB	GRADE BREAK
JB	JUNCTION BOX
SAD	SEE ARCHITECTS DRAWINGS
SDMH	STORM DRAIN MAINTENANCE HOLE
SSMH	SANITARY SEWER MAINTENANCE HOLE
TC	TOP OF CURB
TW	TOP OF WALL
TYP.	TYPICAL

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Revisions

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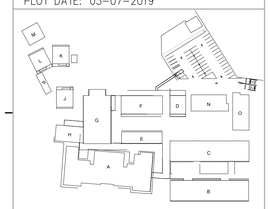
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PROJECT NO. J16102
PLOT DATE: 03-07-2019



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Architect/Engineer Of Record: _____

REGISTERED PROFESSIONAL ENGINEER · MARK J. SORENSEN · Mark C 67458 · Exp. 6-30-19 · CIVIL · STATE OF CALIFORNIA

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Facility

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

CIVIL SITE PLAN

Client Project Number: Client Proj. #

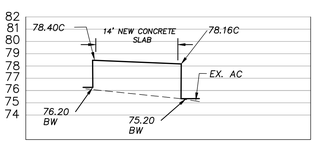
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Revit Version: 2017

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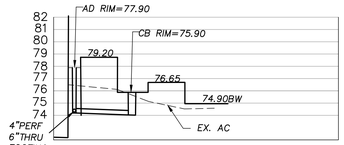
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B PROFILE B–B
SCALE: 1"=10' HORIZ.
1"=5' VERTICAL



A PROFILE A–A
SCALE: 1"=10' HORIZ.
1"=5' VERTICAL

CONSTRUCTION NOTES

1. SEE LANDSCAPE DRAWINGS (SAD)
2. EXISTING OVERHEAD CANOPY
3. ADJUST EXISTING CATCH BASIN RIM
4. ADJUST EXISTING UTILITY TO GRADE
5. CONDENSATE CONNECTION SEE P2.02
6. CONNECT EXISTING SS LINE TO NEW SS
7. PLUM EXISTING WALL MOUNTED RWL UNDERGROUND TO EXISTING/NEW SDCB, DETAIL 5/C3.
8. ROUTE EXISTING WALL MOUNTED RWL 30LF ALONG EXISTING WALL, THEN CONNECT TO UNDERGROUND CONNECTION.
9. INSTALL NEW CLEAN OUT TO EXISTING RWL. DETAIL 10/C3
10. ADJUST EXISTING VALVE BOX TO GRADE.

FIELD VERIFY

A. CONTRACTOR TO VERIFY EXISTING 4" SS PIPE DEPTH AND LOCATION.

B. CONTRACTOR TO VERIFY EXISTING 6" SD PIPE DEPTH AND LOCATION.

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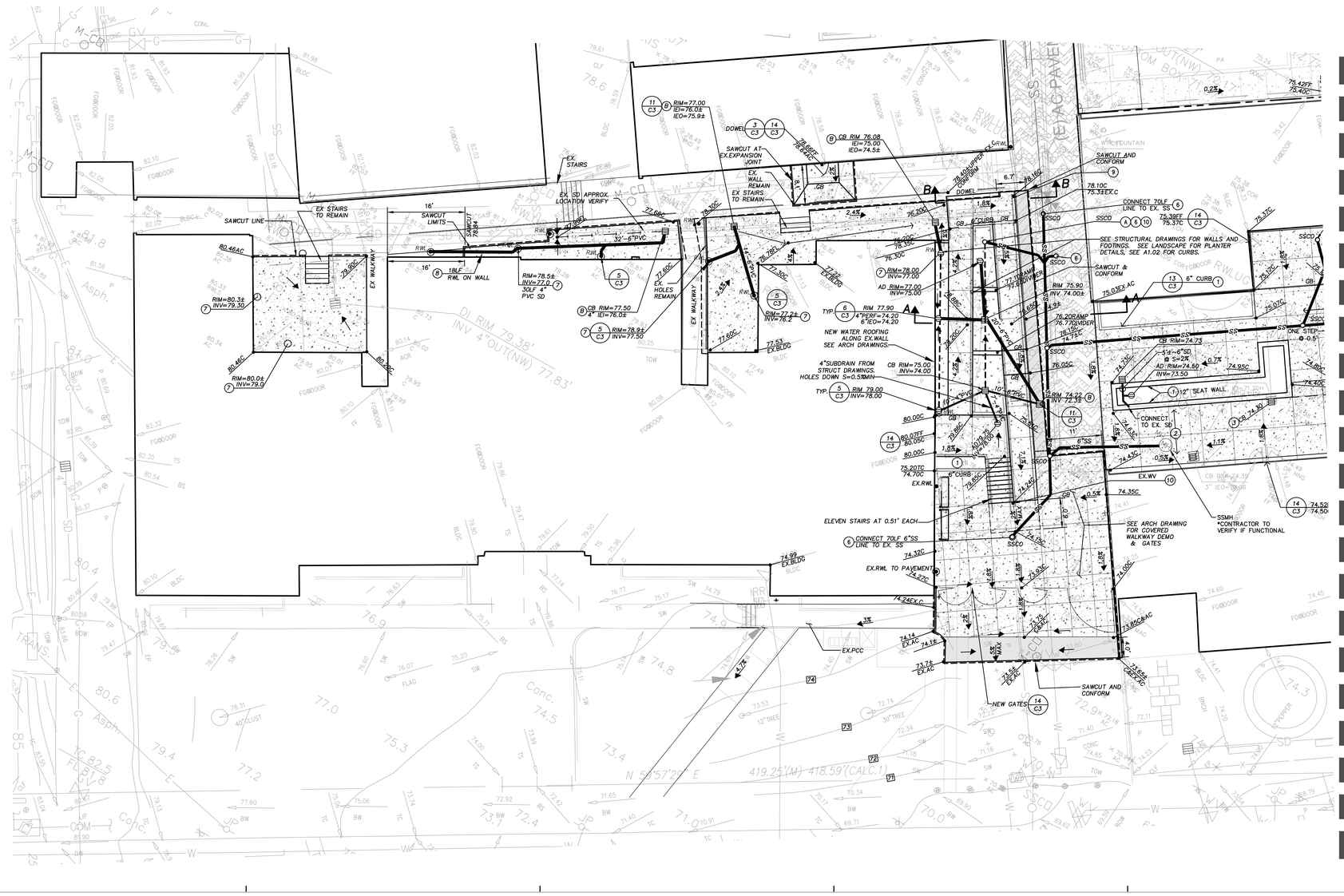
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	NEW RETAINING WALL
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COTG/SDCO/SSCO	CLEAN OUT TO GRADE
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FL	FLOW LINE
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GB	GRADE BREAK
JB	JUNCTION BOX
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SDMH	STORM DRAIN MAINTENANCE HOLE
SSMH	SANITARY SEWER MAINTENANCE HOLE
TC	TOP OF CURB
TW	TOP OF WALL
TYP.	TYPICAL

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W	NEW WATER LINE (SIZE AS INDICATED)
FS	NEW FIRE SERVICE LINE (SIZE AS INDICATED)
	NEW PVC SUBDRAIN (4"PERF@S=0.5%)
G	NEW GAS LINE (SEE MECHANICAL DRAWINGS)
E	NEW ELECTRICAL LINE (SEE ELECTRICAL DRAWINGS)
AD	AREA DRAIN
CB	CATCH BASIN
JB	JUNCTION BOX
SDMH	STORM DRAIN MAINTENANCE HOLE
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RWL	RAIN WATER LEADER
COTG/SDCO/SSCO	CLEAN OUT TO GRADE
WV	WATER VALVE
WM	WATER METER
BFP	BACK FLOW PREVENTER
FH	FIRE HYDRANT
D.I.P.	DUCTILE IRON PIPE
EX., EXIST.	EXISTING
FF	FINISH FLOOR
HDPE	HIGH DENSITY POLYETHYLENE PIPE
INV	INVERT ELEVATION
IE	INVERT ELEVATION IN
IEO	INVERT ELEVATION OUT
IET	INVERT ELEVATION THROUGH
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SS	SANITARY SEWER
SD	STORM DRAIN
TYP.	TYPICAL
W, DW	DOMESTIC WATER



GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

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Revisions

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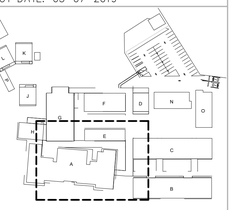
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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

PARTIAL GRADING, PAVING AND PLUMBING PLAN

Client Project Number: Client Proj. #

Scale: 1"=10'
Drawn By: CG
Checked By:MS
Issue Date: 03/11/19
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Sheet
C2.1

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(IN FEET)
1 inch = 10 ft.

CONSTRUCTION NOTES

1. SEE LANDSCAPE DRAWINGS (SAD)
2. EXISTING OVERHEAD CANOPY
3. ADJUST EXISTING CATCH BASIN RIM
4. ADJUST EXISTING UTILITY TO GRADE
5. CONDENSATE CONNECTION SEE P2.02
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GRADING & PAVING LEGEND

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	LIMIT OF GRADING
	SAW CUT LINE
	DRAINAGE FLOW LINE
	GRADE BREAK LINE
R	RIDGE LINE
X	NEW FENCE LINE
	NEW HANDRAIL
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EX., EXIST.	EXISTING
FF	FINISH FLOOR
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FL	FLOW LINE
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GB	GRADE BREAK
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TC	TOP OF CURB
TW	TOP OF WALL
TYP.	TYPICAL

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BFP	BACK FLOW PREVENTER
FH	FIRE HYDRANT
D.I.P.	DUCTILE IRON PIPE
EX., EXIST.	EXISTING
FF	FINISH FLOOR
HDPE	HIGH DENSITY POLYETHYLENE PIPE
INV	INVERT ELEVATION
IEI	INVERT ELEVATION IN
IEO	INVERT ELEVATION OUT
IET	INVERT ELEVATION THROUGH
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SS	SANITARY SEWER
SD	STORM DRAIN
TYP.	TYPICAL
W, DW	DOMESTIC WATER

MATCHLINE SEE SHEET C2.1

EX CLASSROOMS

SEE STRUCTURAL DRAWINGS FOR WALLS AND FOOTINGS. SEE LANDSCAPE FOR PLANTER DETAILS. SEE A1.02 FOR CURBS.

NEW WATER ROOFING ALONG EX.WALL SEE ARCH DRAWINGS.

4"SUBDRAIN FROM STRUCT DRAWINGS. HOLES DOWN. S=0.5%MIN

ELEVEN STAIRS AT 0.51' EACH

SEE ARCH DRAWING FOR COVERED WALKWAY DEMO & GATES

SSMH *CONTRACTOR TO VERIFY IF FUNCTIONAL

SEE L1.1A FOR LAYOUT

NEW GATES

SAWCUT AND CONFORM

CONNECT TO EX. SD

CONNECT 70LF 6"SS LINE TO EX. SS

EX.PCC

EX.RWL TO PAVEMENT

EX.WV

EX.RWL

EX.BLDG

EX WALKWAY

EX STAIRS TO REMAIN

EX WALL REMAIN

SAWCUT AT EX.EXPANSION JOINT

DOWEL

Playground

419.25'(M) 418.59'(CALC.)

REVISIONS

No.	Revisions	By	Date	Appr.

BID SET
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UNDERWOOD & ROSENBLUM, INC.
civil engineers and surveyors
1630 Oakland Road, Suite A114, San Jose, CA 95131
(408) 453-1222 www.uandr.com

PROJECT NO. J16102
PLOT DATE: 03-07-2019

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Architect/Engineer Of Record _____

REGISTERED PROFESSIONAL ENGINEER — Mark C 67419 — Exp. 6-30-19 — CIVIL — STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

PARTIAL GRADING, PAVING AND PLUMBING PLAN

Client Project Number: Client Proj. #

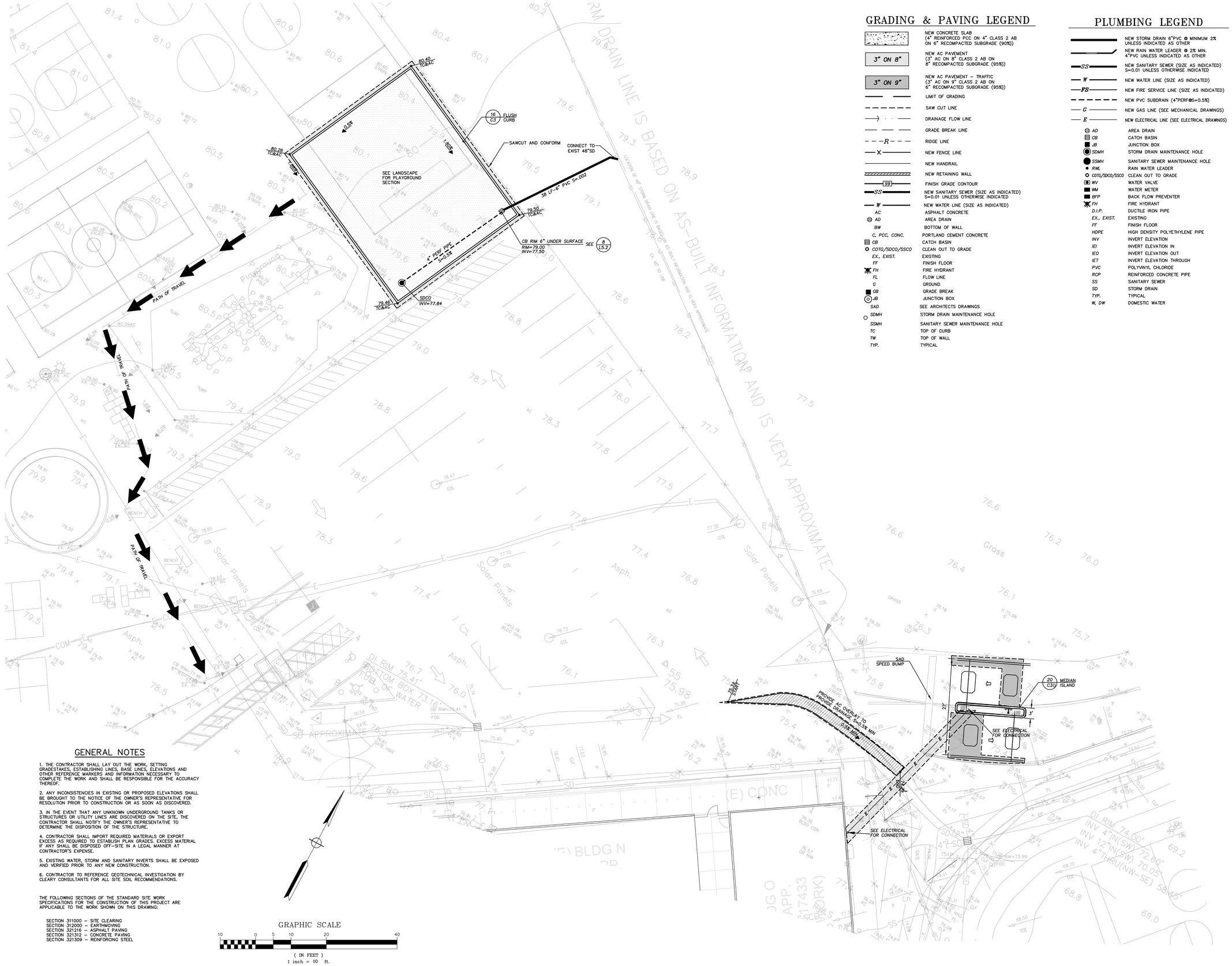
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Sheet **C2.2**

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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GRADING & PAVING LEGEND

	NEW CONCRETE SLAB (4" REINFORCED PCC ON 4" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (90%))
3" ON 8"	NEW AC PAVEMENT (3" AC ON 8" CLASS 2 AB ON 8" RECOMPACTED SUBGRADE (95%))
3" ON 9"	NEW AC PAVEMENT – TRAFFIC (3" AC ON 9" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (95%))
	LIMIT OF GRADING
	SAW CUT LINE
	DRAINAGE FLOW LINE
	GRADE BREAK LINE
R	RIDGE LINE
X	NEW FENCE LINE
	NEW HANDRAIL
	NEW RETAINING WALL
99	FINISH GRADE CONTOUR
SS	NEW SANITARY SEWER (SIZE AS INDICATED) S=0.01 UNLESS OTHERWISE INDICATED
W	NEW WATER LINE (SIZE AS INDICATED)
AC	ASPHALT CONCRETE
AD	AREA DRAIN
BW	BOTTOM OF WALL
C, PCC, CONC.	PORTLAND CEMENT CONCRETE
CB	CATCH BASIN
COTG/SDCO/SSCO	CLEAN OUT TO GRADE
EX., EXIST.	EXISTING
FF	FINISH FLOOR
FH	FIRE HYDRANT
FL	FLOW LINE
G	GROUND
GB	GRADE BREAK
JB	JUNCTION BOX
SAD	SEE ARCHITECTS DRAWINGS
SDMH	STORM DRAIN MAINTENANCE HOLE
SSMH	SANITARY SEWER MAINTENANCE HOLE
TC	TOP OF CURB
TW	TOP OF WALL
TYP.	TYPICAL

PLUMBING LEGEND

	NEW STORM DRAIN 6"PVC @ MINIMUM 2% UNLESS INDICATED AS OTHER
	NEW RAIN WATER LEADER @ 2% MIN. 4"PVC UNLESS INDICATED AS OTHER
SS	NEW SANITARY SEWER (SIZE AS INDICATED) S=0.01 UNLESS OTHERWISE INDICATED
W	NEW WATER LINE (SIZE AS INDICATED)
FS	NEW FIRE SERVICE LINE (SIZE AS INDICATED)
	NEW PVC SUBDRAIN (4"PERF@S=0.5%)
G	NEW GAS LINE (SEE MECHANICAL DRAWINGS)
E	NEW ELECTRICAL LINE (SEE ELECTRICAL DRAWINGS)
AD	AREA DRAIN
CB	CATCH BASIN
JB	JUNCTION BOX
SDMH	STORM DRAIN MAINTENANCE HOLE
SSMH	SANITARY SEWER MAINTENANCE HOLE
RWL	RAIN WATER LEADER
COTG/SDCO/SSCO	CLEAN OUT TO GRADE
WV	WATER VALVE
WM	WATER METER
BFP	BACK FLOW PREVENTER
FH	FIRE HYDRANT
D.I.P.	DUCTILE IRON PIPE
EX., EXIST.	EXISTING
FF	FINISH FLOOR
HDPE	HIGH DENSITY POLYETHYLENE PIPE
INV	INVERT ELEVATION
II	INVERT ELEVATION IN
IEO	INVERT ELEVATION OUT
IET	INVERT ELEVATION THROUGH
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SS	SANITARY SEWER
SD	STORM DRAIN
TYP.	TYPICAL
W, DW	DOMESTIC WATER

GENERAL NOTES

1. THE CONTRACTOR SHALL LAY OUT THE WORK, SETTING GRADESTAKES, ESTABLISHING LINES, BASE LINES, ELEVATIONS AND OTHER REFERENCE MARKERS AND INFORMATION NECESSARY TO COMPLETE THE WORK AND SHALL BE RESPONSIBLE FOR THE ACCURACY THEREOF.

2. ANY INCONSISTENCIES IN EXISTING OR PROPOSED ELEVATIONS SHALL BE BROUGHT TO THE NOTICE OF THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO CONSTRUCTION OR AS SOON AS DISCOVERED.

3. IN THE EVENT THAT ANY UNKNOWN UNDERGROUND TANKS OR STRUCTURES OR UTILITY LINES ARE DISCOVERED ON THE SITE, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE TO DETERMINE THE DISPOSITION OF THE STRUCTURE.

4. CONTRACTOR SHALL IMPORT REQUIRED MATERIALS OR EXPORT EXCESS AS REQUIRED TO ESTABLISH PLAN GRADES. EXCESS MATERIAL IF ANY SHALL BE DISPOSED OFF-SITE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.

5. EXISTING WATER, STORM AND SANITARY INVERTS SHALL BE EXPOSED AND VERIFIED PRIOR TO ANY NEW CONSTRUCTION.

6. CONTRACTOR TO REFERENCE GEOTECHNICAL INVESTIGATION BY CLEARY CONSULTANTS FOR ALL SITE SOIL RECOMMENDATIONS.

THE FOLLOWING SECTIONS OF THE STANDARD SITE WORK SPECIFICATIONS FOR THE CONSTRUCTION OF THIS PROJECT ARE APPLICABLE TO THE WORK SHOWN ON THIS DRAWING.

SECTION 311000 – SITE CLEARING
SECTION 312000 – EARTHMOVING
SECTION 321216 – ASPHALT PAVING
SECTION 321312 – CONCRETE PAVING
SECTION 321309 – REINFORCING STEEL

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

SAN FRANCISCO UNIFIED SCHOOL DISTRICT · SOUTH OF MARKET · EDUCATION FOR ALL

Revisions

No.	Revisions	By	Date	Appr.

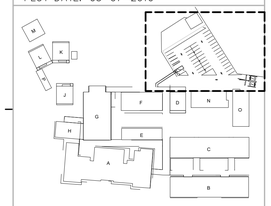
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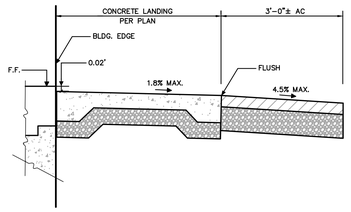
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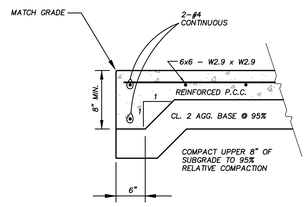
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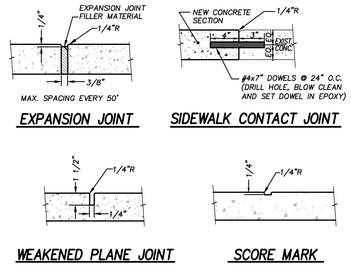
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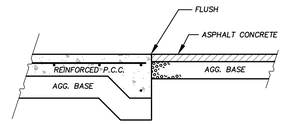
DOORWAY LANDING DETAIL | 1



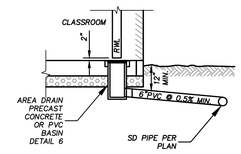
CONCRETE EDGE DETAIL | 2



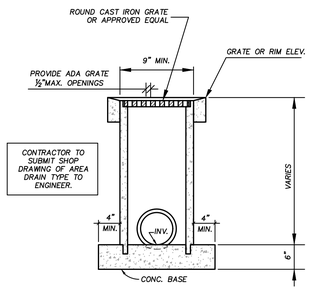
JOINTS DETAIL | 3



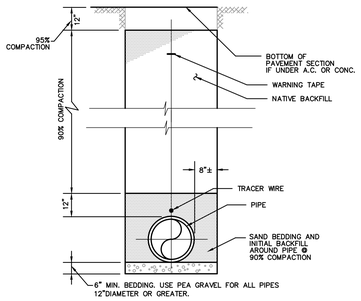
CONCRETE TO ASPHALT TRANSITION | 4



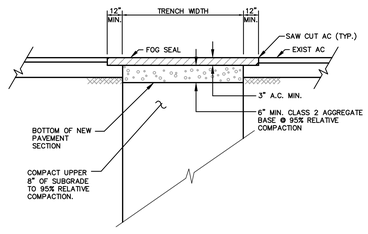
RWL TO AREA DRAIN | 5



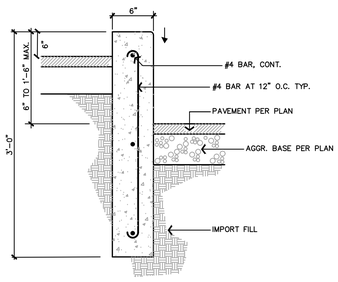
AREA DRAIN DETAIL | 6



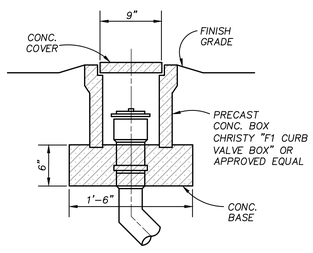
TRENCH BACKFILL DETAIL | 7



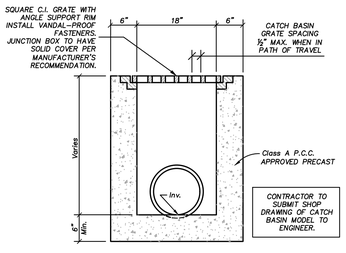
AC SURFACE TRENCH REPAIR | 8



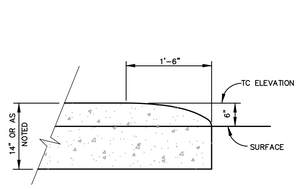
CONCRETE EDGE | 9



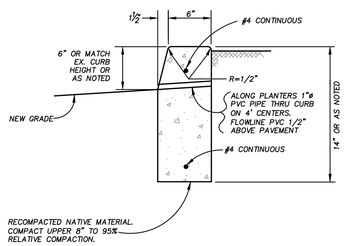
CLEANOUT DETAIL | 10



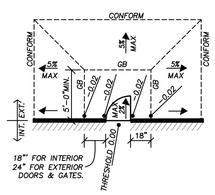
CATCH BASIN DETAIL | 11



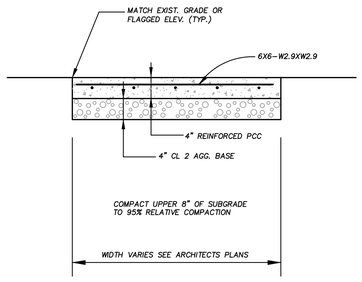
CURB TRANSITION DETAIL | 12



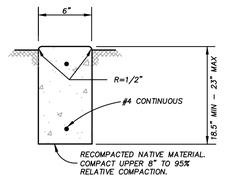
VERTICAL CURB DETAIL | 13



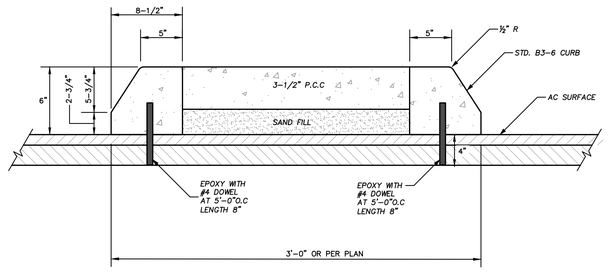
THRESHOLD-SINGLE DOOR | 14



SIDEWALK SECTION DETAIL | 15



FLUSH CURB | 16



MEDIAN ISLAND DETAIL | 17

\- | 18

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PLANTING NOTES

GENERAL

1. ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH PLANTING WORK AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN.
2. ALL QUANTITIES AND PLANT COUNTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. IN CASE OF DISCREPANCIES, THE PLAN SHALL GOVERN.
3. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE SUBSTITUTIONS, ADDITIONS, AND DELETIONS IN THE PLANTING SCHEME AS THEY FEEL NECESSARY WHILE WORK IS IN PROGRESS, UPON APPROVAL BY THE OWNER. SUCH CHANGES ARE TO BE ACCOMPANIED BY EQUITABLE ADJUSTMENTS IN THE CONTRACT PRICE, WHEN NECESSARY.
4. PLANT MATERIAL LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY BE SUBJECT TO CHANGE IN THE FIELD BY THE LANDSCAPE ARCHITECT. PLANT LOCATIONS ARE TO BE ADJUSTED IN THE FIELD AS NECESSARY TO SCREEN UTILITIES, BUT SHALL NOT BLOCK WINDOWS, BLOCK SIGNS NOR IMPEDE ACCESS.
5. THE DESIGN INTENT OF THE PLANTING PLAN IS TO ESTABLISH AN ATTRACTIVE MATURE LANDSCAPE APPEARANCE. FUTURE PLANT GROWTH WILL NECESSITATE TRIMMING, SHAPING, AND IN SOME CASE REMOVAL OF TREES AND SHRUBS AS AN ON-GOING MAINTENANCE PROCEDURE.
6. ALL PLANTING AREA MUST BE IRRIGATED WITH AUTOMATIC IRRIGATION SYSTEM. IRRIGATION SYSTEM SHALL BE FULLY AUTOMATED AND OPERATIONAL WITH FULL COVERAGE PRIOR TO PLANTING.
7. CONTRACTOR TO REVIEW ALL EXISTING, PROPOSED, & AS BUILT UTILITY PLANS PRIOR TO CONSTRUCTION. CONTRACTOR TO TAKE PRECAUTIONS IN EXCAVATION OF ALL TREE PLANTING PITS. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS FOUND DURING CONSTRUCTION.
8. CONTRACTOR MUST REVIEW ALL PLANS PRIOR TO THE BEGINNING OF CONSTRUCTION AND MAINTAIN THE FOLLOWING CLEARANCES FOR ALL TREE PLANTINGS. CONTRACTOR TO TAKE PRECAUTION IN ALL EXCAVATION ACTIVITY. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION.
   - FIRE HYDRANTS AND PIVS: 5' MINIMUM
   - LIGHT POLES: 10' MINIMUM
   - UTILITIES: 5' MINIMUM
   - BUILDING ROOF EDGE: 5' MINIMUM
9. CONTRACTOR TO PROVIDE AND ARRANGE FOR PLANT MATERIAL THRU CONTRACT GROW, PLANT BROKERS, OR DIRECT PURCHASE AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PROJECTS PLANTING PLAN. CONTRACTOR MUST SUBMIT WITHIN 30 DAYS AFTER AWARD OF A BID A DETAILED NURSERY LIST OF SECURED PLANT MATERIAL, CONTRACT GROW PLANT MATERIAL, AND ANY SUBSTITUTION REQUESTS. CONTRACTOR SHALL ARRANGE AND SECURE ALL PLANT MATERIAL WITHIN 30 DAYS OF BID. UPON DELIVERY, PLANT MATERIAL THAT DOES NOT MEET NURSERY STANDARDS, IS ROOTBOUND, OF POOR QUALITY & HEALTH, SUBSTANDARD SIZE, AND / OR IS NOT APPROVED BY THE LANDSCAPE ARCHITECT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. MATERIAL WHICH IS NOT SECURED AND IS UNAVAILABLE IN THE SIZE SPECIFIED SHALL BE UP-SIZED, IF AVAILABLE. ALL REPLACEMENT MATERIAL, SUBSTITUTIONS OR UP-SIZED PLANT MATERIAL MUST BE PROVIDED AS REQUIRED FOR THE FULL IMPLEMENTATION OF THE PLANTING PLAN AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.
10. PROCUREMENT OF PLANT MATERIAL SHALL NOT BE LIMITED TO NORTHERN CALIFORNIA. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRUCKING, INSPECTIONS, AND INCIDENTALS FOR PROVIDING PLANT MATERIAL FROM SOURCES OUT OF STATE AS REQUIRED BY THE PROJECT PLANTING PLAN.

EXISTING PLANT MATERIAL

1. ALL EXISTING PLANT MATERIAL, TREES, OR LAWN TO REMAIN MUST BE PROTECTED AND MAINTAINED IN PLACE BY THE CONTRACTOR.
2. ANY DAMAGED MATERIAL MUST BE FULLY REPLACED TO MATCH EXISTING BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT AND OWNER.
3. CONTRACTOR MUST MAINTAIN ANY EXISTING IRRIGATION SYSTEMS OR PROVIDE TEMPORARY IRRIGATION SYSTEMS AS REQUIRED TO ALL EXISTING PLANTING AREAS TO REMAIN.

SOILS

1. THE CONTRACTOR MUST PROVIDE AN AGRICULTURAL SUITABILITIES ANALYSIS FOR ALL SOILS EXISTING AND IMPORTED INCLUDING BUT NOT LIMITED TO: EXISTING ON-SITE SOILS, IMPORTED TOPSOIL, LIME TREATED AREAS, AND ALL AMMENDMENTS. RECOMMENDATIONS FOR AMENDMENTS CONTAINED IN THIS ANALYSIS ARE TO BE CARRIED OUT BEFORE PLANTING OCCURS. PROVIDE 2 TESTS AT 6" DEPTH AND 2 TESTS AT 24" DEPTH THROUGHOUT THE SITE. PROVIDE ADDITIONAL TESTING (ONE 6" AND ONE 24" DEPTH TEST PER 25,000 SF FOR AREAS WHICH WERE LIME TREATED). EACH TEST SAMPLE SHALL CONTAIN 3 REPRESENTATIVE SOIL SAMPLES. ALL LIME TREATED PLANTING AREAS SHALL BE REMOVED AND REPLACED WITH IMPORT TOP SOIL AT NO COST TO THE OWNER. ALL TESTING SHALL BE PAID FOR BY THE CONTRACTOR. FOR BID PURPOSES AMEND ALL SOIL WITH 6 YARDS OMRI COMPOST 50LBS GYPSUM AND 100LBS OF GRO-POWER PLUS 5-3-1 W/ M PER 1000SF. CONTRACTOR TO SUBMIT ALL DELIVERY TICKETS FOR COMPOST AND FERTILIZERS FOR VERIFICATION.
2. ALL SOILS IMPORTED ONTO THE SITE FOR ANY PURPOSE SUCH AS GRADING, NON EXPANSIVE FILL, FILL, OR FOR ANY GENERAL PURPOSE MUST BE TESTED FOR PLANT SUITABILITY PRIOR TO PLACEMENT. ALL IMPORT SOILS SHALL BE NON-DETRIMENTAL TO PLANT MATERIAL AND SOILS ANALYSIS SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. PROVIDE 1 TEST PER 500 CY OF MATERIAL.
3. SOIL IS TO BE AMENDED, AT THE RATE INDICATED BY THE SOIL ANALYSIS, TO BRING THE SOIL ORGANIC MATTER CONTENT TO A MINIMUM OF 3.5% BY DRY WEIGHT, AND A MINIMUM OF 2" OF QUALITY RECYCLED COMPOST, ON ALL PLANTING AREAS.
4. ALL PLANTERS IN AREAS WHICH HAVE BEEN COMPACTED, SUCH AS ADJACENT TO BUILDINGS AND IN PARKING LOTS, SHALL BE CROSS RIPPED TO A MINIMUM DEPTH OF 12" BELOW SUBGRADE. AREAS SHALL BE PROTECTED AFTER DECOMPACTION. RIPPED SOIL DEPTH NOT TO EXCEED BELOW BOTTOM BUILDING FOUNDATION.

TREES

1. ALL TREES SHALL BE SPECIMENS UNLESS SPECIFICALLY NOTED.
2. ALL TREES ARE TO BE STAKED AS SHOWN ON THE TREE STAKING/GUYING DIAGRAMS. BRANCHING HEIGHT OF TREES SHALL BE A 6'-0" MINIMUM ABOVE FINISH GRADE. ALL TREES IN A FORMAL GROUP PLANTING MUST BE MATCHING IN SIZE AND SHAPE. ALL STREET TREES TO BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE OWNER. LANDSCAPE ARCHITECT SHALL BE CONSULTED REGARDING ORIENTATION OF TREES PRIOR TO PLANTING AND/OR BACKFILLING.
3. PLANT TREES 3'-0" MINIMUM FROM FACE OF CURB AT PARKING, AND FROM EDGES OF PAVING. ALL TREES WITHIN 5' OF PAVING AREAS AND BUILDINGS MUST HAVE ROOT BARRIERS INSTALLED. SEE ROOT BARRIER DETAIL. DEEP ROOT BARRIER MODEL NO. UB 24-2. (415) 344-1464. INSTALL PER MANUFACTURER'S SPECIFICATIONS. WHERE WATER BARRIERS AND ROOT BARRIERS ARE REQUIRED, USE CENTURY PRODUCTS DUAL PURPOSE WATER/ ROOT BARRIER CR-PE24-20, (714)632-7083, S.C.D. FOR LOCATIONS OF WATER BARRIER.
4. PROVIDE 4" BERM AROUND TREE FOR WATER BASIN. SEE TREE STAKING DETAIL. BERM TO BE REMOVED IN LAWN AREA AFTER INITIAL MAINTENANCE PERIOD. MULCH TREE WELL WITH 3" LAYER OF RECYCLED CHIPPED MULCH. KEEP MULCH AWAY FROM TREE TRUNK. HOLD LAWN AND HYDROSEED 2' CLEAR FROM TRUNKS, TYP.
5. TREES MUST HAVE AN UNCUT LEADER THAT HAS A UNIFORM TAPER FROM BASE TO TIP. TREES MUST MEET AT LEAST NORMAL CALIPER AND HEIGHT FOR CONTAINER SIZE. OVERGROWN OR ROOT BOUND TREES ARE NOT ACCEPTABLE.

PLANTING NOTES (CONT)

SHRUBS, GROUNDCOVERS AND VINES

1. GROUNDCOVER MUST BE PLANTED AS SHOWN ON THE PLAN, INCLUDING UNDER SHRUBS AND IN TREE WATERING BASINS.
2. SHRUBS AND PERENNIALS MUST HAVE ADEQUATE SETBACK FROM THE ADJACENT SIDEWALK AND EDGES OF PARKING LOT CURBS. NOTIFY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION IF PLANT MATERIAL MAY PROTRUDE INTO THE PATH OF TRAVEL.
3. THE CONTRACTOR IS TO SECURE ALL VINES TO TRELLISES WITH APPROVED FASTENERS, ALLOWING FOR TWO (2) YEARS GROWTH. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT.

ACCESSORIES

1. ALL PLANTING NOT BOUNDED BY CONCRETE OR A HARDSCAPE EDGE SHALL BE COMPLETELY SURROUNDED BY HEADERS. ALL ASPHALT AND DECOMPOSED GRANITE AREAS TO BE COMPLETELY SURROUNDED BY HEADERS OR ADJACENT CONCRETE WORK.
2. ALL PLANTING AREAS MUST BE TOP-DRESSED WITH 3" LAYER OF RECYCLED CHIPPED MULCH. COLOR: BROWN. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
3. ALL SLOPES GREATER THAN 2.5:1 MUST BE COVERED WITH EROSION CONTROL NETTING PER THE MANUFACTURER'S SPECIFICATIONS. OVERLAP ALL EDGES A MINIMUM OF 12" AND SECURE AS REQUIRED WITH METAL STAPLES. EROSION CONTROL NETTING TO BE WESTERN EXCELSIOR, EXCEL CS-3 OR APPROVED EQUAL. AVAILABLE FROM REED & GRAHAM 888-381-0800.
4. SEE SPECIFICATIONS FOR ALL FERTILIZER REQUIREMENTS

SUBMITTALS

1. CONTRACTOR MUST SUBMIT ALL TESTS, PRODUCTS, ACCESSORIES, CUT SHEETS OF ALL ITEMS SPECIFIED FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
2. ALL PLANT MATERIAL MUST BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY. CONTRACTOR SHALL SUBMIT PHOTOS OF ALL SHRUBS, GROUND COVERS, VINES, AND TREES FOR PRELIMINARY REVIEW AND APPROVAL.
3. PLANT MATERIAL NOT APPROVED BY THE LANDSCAPE ARCHITECT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT WITH APPROVED PLANT MATERIAL AT NO ADDITIONAL COST TO THE CONTRACT OR OWNER.

TREE PROTECTION NOTES:

1. PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITY IN THE AREA, INCLUDING GRADING, TEMPORARY PROTECTIVE FENCING SHALL BE INSTALLED AT EACH SITE TREE. FENCING SHALL BE LOCATED AT OR BEYOND THE CANOPY DRIP LINE SO THAT 100% OF THE DRIP LINE WILL BE PROTECTED BY FENCING. TO REDUCE SOIL COMPACTION FROM EQUIPMENT.
2. THE CONTRACTOR IS REQUIRED TO WATER, FERTILIZE AND ATTEND TO OTHER MAINTENANCE NEEDS OF EXISTING TREES AS NEEDED PER ARBORIST'S RECOMMENDATIONS TO MAINTAIN HEALTHY GROWTH THROUGHOUT THE CONSTRUCTION PERIOD. SIX FEET DIAMETER, MINIMUM, BY SIX INCH TALL EARTH BERMS SHALL BE CONSTRUCTED AT THE BASE OF EACH TREE TO FUNCTION AS TEMPORARY WATERING BASINS DURING THE CONSTRUCTION PERIOD. TREES SHALL BE WATERED ACCORDING TO WEATHER AND TREE REQUIREMENTS. APPROVED MULCH OF 1-2 INCH SIZED WOOD CHIPS SHALL BE PLACED AT A DEPTH OF 4 INCHES WHERE NO EXCAVATION IS TO OCCUR IN THE VICINITY OF THE TREES TO BE PROTECTED.
3. THE TREE PROTECTION FENCE SHALL BE 6' HIGH SNOW FENCE WITH IMMOVABLE POSTS. THE FENCING SHALL FORM A CONTINUOUS BARRIER WITHOUT ENTRY POINTS AROUND EACH TREE. ANY ENCROACHMENT INTO THE DRIP LINE FOR FENCING OR CONSTRUCTION PURPOSES SHALL NOT BE PERMITTED.
4. LOW HANGING LIMBS OF SAVED TREES SHALL BE PRUNED PRIOR TO GRADING, OR ANY EQUIPMENT MOBILIZATION ON SITE. THE PURPOSE OF THIS REQUIREMENT IS TO AVOID TEARING LIMBS BY HEAVY EQUIPMENT. ALL LIMBS TO BE PRUNED SHALL BE SUPERVISED BY THE ARBORIST OF RECORD FOR THE JO.
5. THIS FENCING SHALL SERVE AS A BARRIER TO PREVENT DRIP LINE ENCROACHMENT OF ANY TYPE OF CONSTRUCTION ACTIVITIES AND EQUIPMENT. NO OILS, GAS, CHEMICALS, LIQUID WASTE, SOLID WASTE CONSTRUCTION MACHINERY OR CONSTRUCTION MATERIALS SHALL BE STORED OR ALLOWED TO STAND FOR ANY PERIOD OF TIME WITHIN THE DRIP LINE OF THE TREE. FURTHER, NO ONE SHALL ENTER THE FENCE PERIMETER FOR ANY REASON EXCEPT FOR THE PURPOSE OF MONITORING THE HEALTH OF THE TREE. ACCIDENTAL DAMAGE TO BARK, ROOT CROWN, OR LIMBS MAY INCREASE POTENTIAL FOR FUTURE DECLINE.
6. CONTRACTORS AND SUBCONTRACTORS SHALL DIRECT ALL EQUIPMENT AND PERSONNEL TO REMAIN OUTSIDE THE FENCED AREA AND AT ALL TIMES UNTIL PROJECT IS COMPLETE, AND SHALL INSTRUCT EMPLOYEES AS TO THE PURPOSE AND IMPORTANCE OF FENCING.
7. A 'TREE PROTECTION ZONE' SIGN SHALL BE POSTED AT EACH TREE INDICATING THE PURPOSE OF THE FENCING.
8. THE ARBORIST OF RECORD FOR THE JOB OR THE CITY ARBORIST SHALL BE RESPONSIBLE FOR INSPECTION AND APPROVAL OF THE FENCING PRIOR TO ANY GRADING OPERATIONS.
9. FENCING MUST REMAIN IN PLACE AND SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETED. THIS SHALL INCLUDE GRADING AND COMPACTION ACTIVITIES, INSTALLATION OF UNDERGROUND, ALL CONSTRUCTION ACTIVITIES AND ANY OTHER CONSTRUCTION OR ACTIVITY WHICH IS SCHEDULED PRIOR OR LANDSCAPE INSTALLATION.
10. ROOTS OF SINGLE STANDING TREES OFTEN EXTEND UP TO THREE TIMES THE DISTANCE OF THE ACTUAL DRIP LINE AND FUNCTION PRIMARILY IN THEY UPTAKE OF NUTRIENTS AND WATER. THE DRIP LINE IS ARBITRARILY ESTABLISHED AS THE MINIMUM ROOT AREA GENERALLY REQUIRED TO PRESERVE TREE HEALTH. AS MUCH AREA AROUND THE CIRCUMFERENCE OF THE TREE SHOULD HAVE MINIMUM INTRUSION TO FURTHER INSURE TREE SURVIVAL AND HEALTH.
11. UNAUTHORIZED TREE REMOVAL IS SUBJECT TO IN-KIND REPLACEMENT EQUAL TO THE VALUE OF THE MATURE RESOURCE LOST, AS DETERMINED BY THE CITY.
12. NO MECHANICAL TRENCHING SHALL OCCUR WITHIN THE TREE PROTECTION ZONE. ANY EXCAVATION IF REQUIRED SHALL BE BY HAND, AIR SPADE OR BY VACUUM. CUTTING OF ANY ROOTS OVER 3" DIA SHALL BE REVIEWED BY AN ARBORIST.
13. SEE TREE PRESERVATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
14. THE CONTRACTOR SHALL CONTRACT WITH AN ARBORIST AS REQUIRED TO ENSURE PROPER TREE HEALTH IF A PROJECT ARBORIST OR CITY ARBORIST HAS NOT BEEN CONTRACTED.

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REGISTERED LANDSCAPE ARCHITECT — DAVID GATES — No. 2987 — Renewal 8/31/2017 — Expires 8/07/2018 — LA — STATE OF CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING • URBAN DESIGN
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510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

PLANTING NOTES

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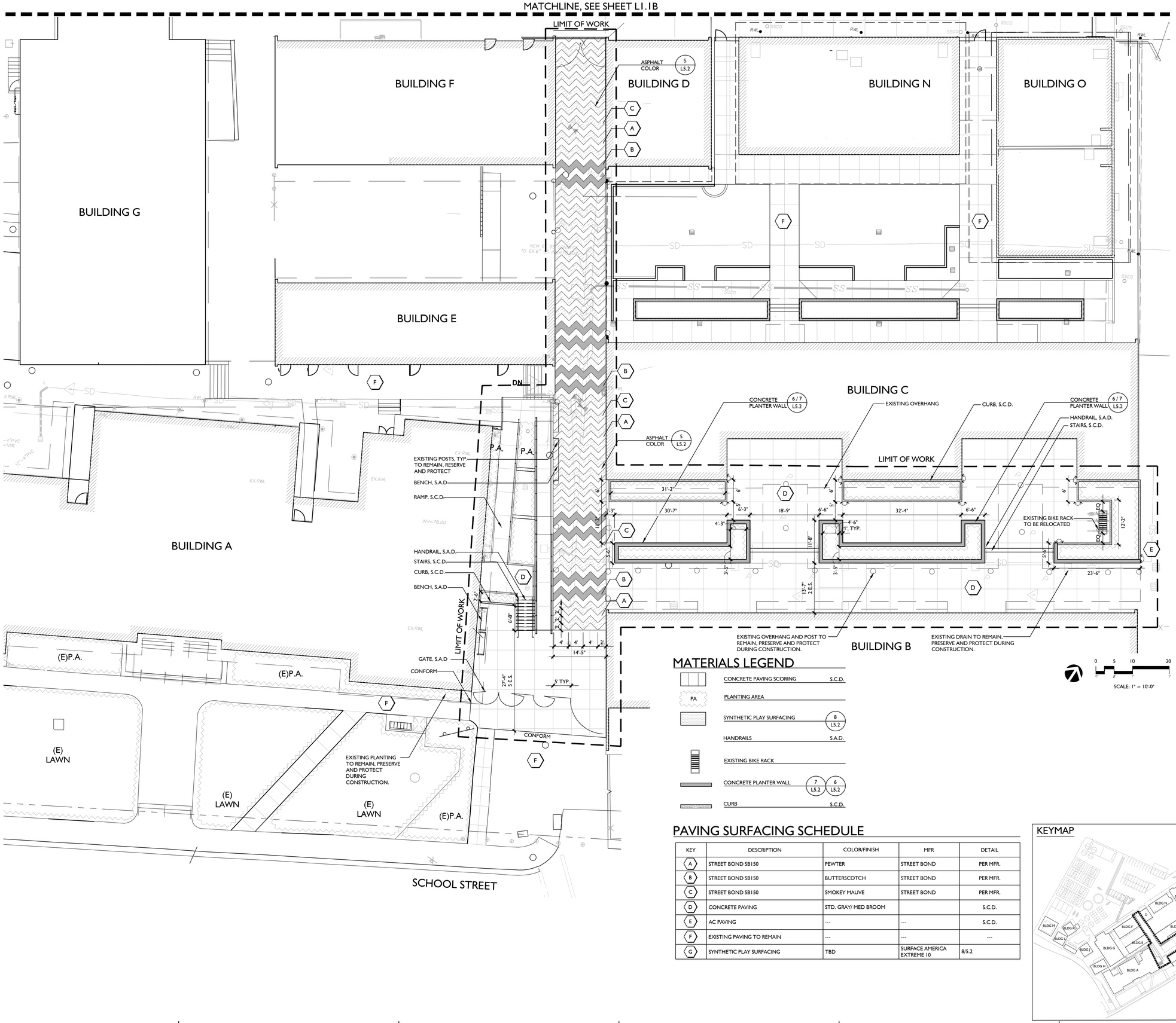
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Checked By: CG
Issue Date: 03/11/19
Revit Version: 2017

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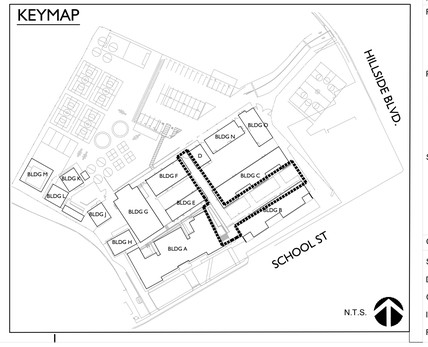
MATERIALS LEGEND

CONCRETE PAVING SCORING	S.C.D.
PA PLANTING AREA	
SYNTHETIC PLAY SURFACING	8 L5.2
HANDRAILS	S.A.D.
EXISTING BIKE RACK	
CONCRETE PLANTER WALL	7 L5.2 / 6 L5.2
CURB	S.C.D.

PAVING SURFACING SCHEDULE

KEY	DESCRIPTION	COLOR/FINISH	MFR	DETAIL
A	STREET BOND SB150	PEWTER	STREET BOND	PER MFR.
B	STREET BOND SB150	BUTTERSCOTCH	STREET BOND	PER MFR.
C	STREET BOND SB150	SMOKEY MAUVE	STREET BOND	PER MFR.
D	CONCRETE PAVING	STD. GRAY/ MED BROOM		S.C.D.
E	AC PAVING	---	---	S.C.D.
F	EXISTING PAVING TO REMAIN	---	---	---
G	SYNTHETIC PLAY SURFACING	TBD	SURFACE AMERICA EXTREME 10	8/5.2

KEYMAP



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HY Architects Project number: Project Number

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

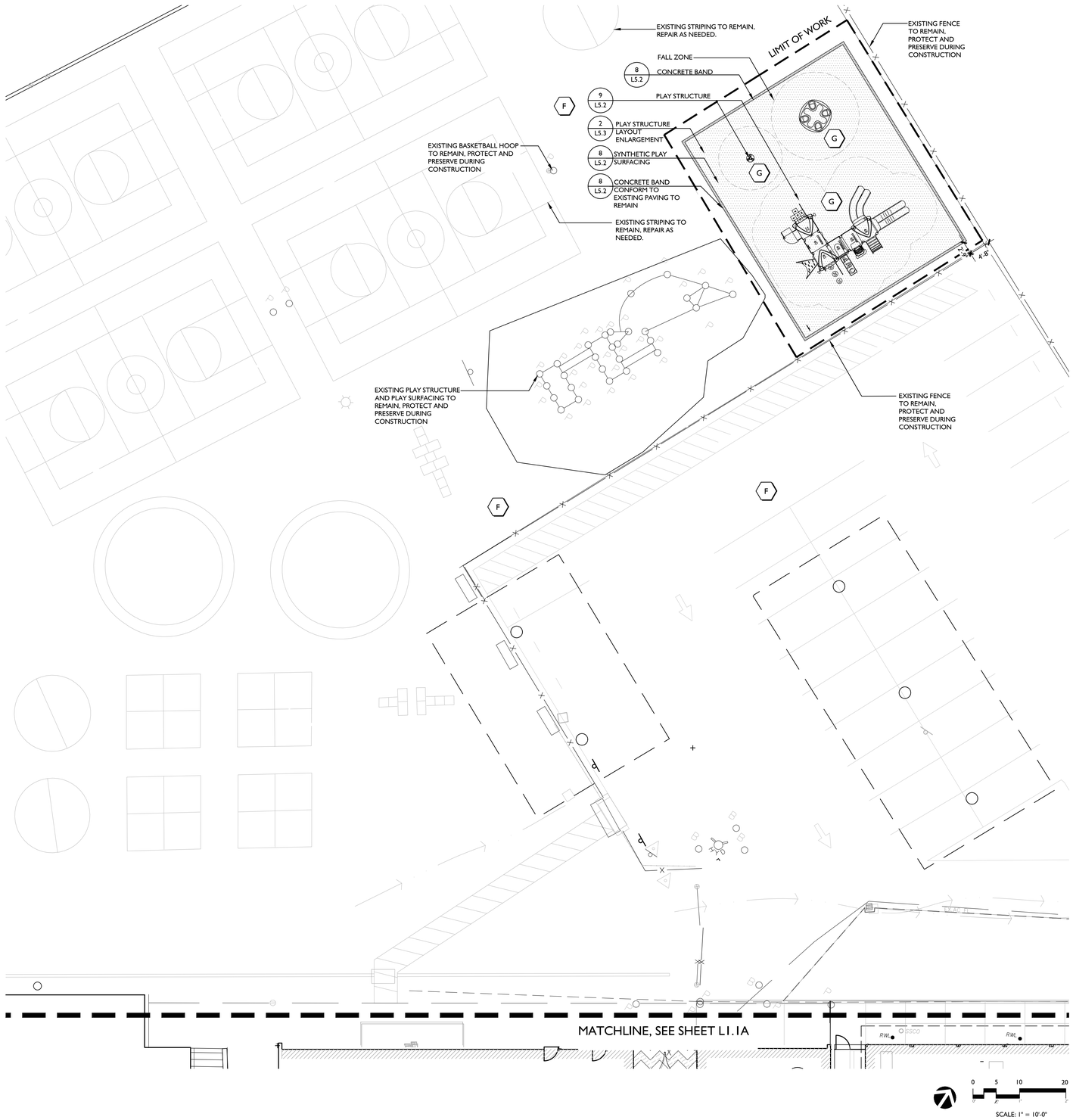
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Checked By: CG
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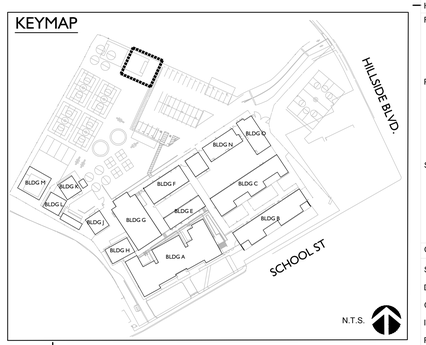


MATERIALS LEGEND

CONCRETE PAVING SCORING	S.C.D.
PA PLANTING AREA	
SYNTHETIC PLAY SURFACING	8 L5.2
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G	SYNTHETIC PLAY SURFACING	TBD	SURFACE AMERICA EXTREME 10	8/5.2



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Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

LAYOUT PLAN

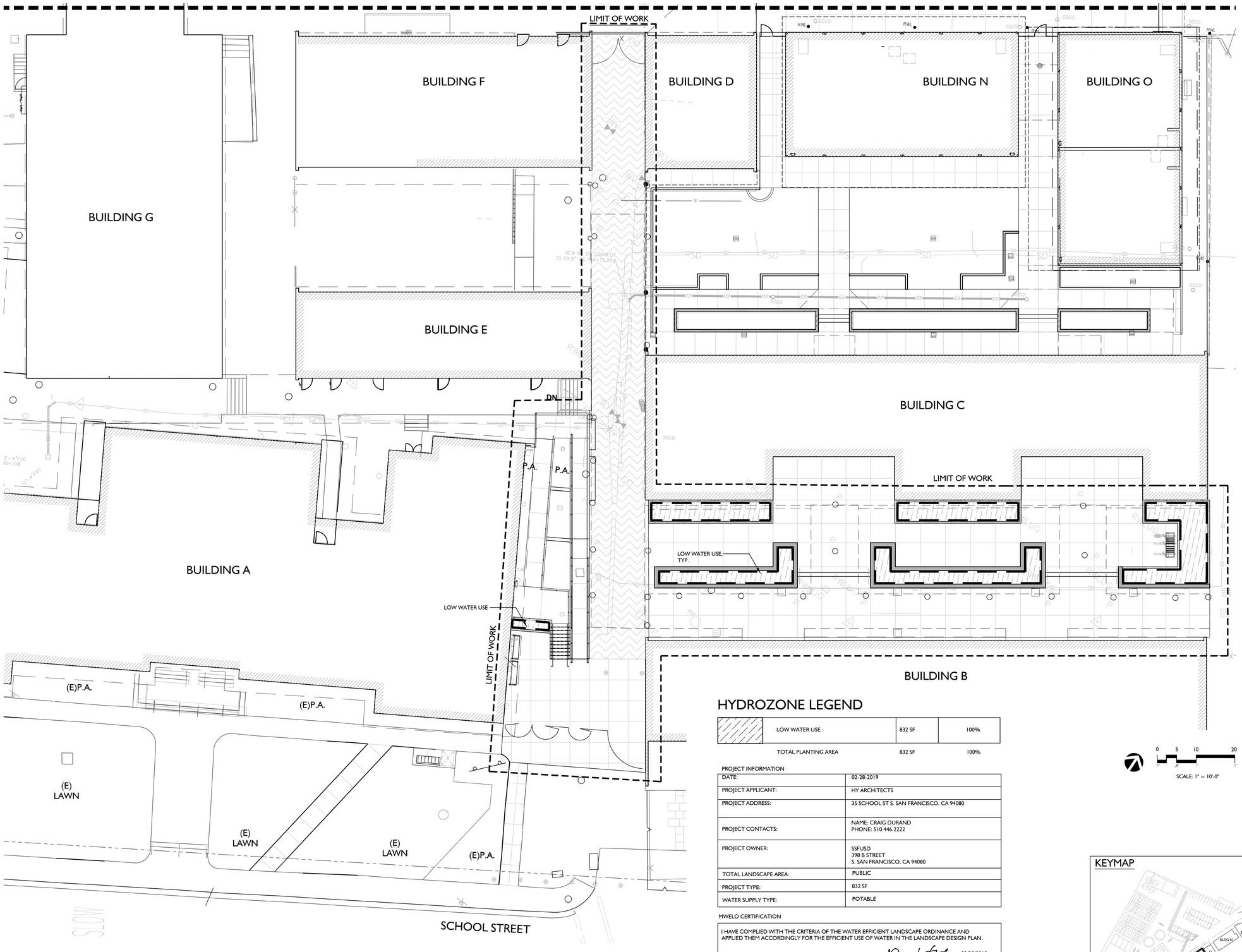
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HYDROZONE LEGEND

	LOW WATER USE	832 SF	100%
	TOTAL PLANTING AREA	832 SF	100%

PROJECT INFORMATION

DATE:	02-28-2019
PROJECT APPLICANT:	HY ARCHITECTS
PROJECT ADDRESS:	35 SCHOOL ST S. SAN FRANCISCO, CA 94080
PROJECT CONTACTS:	NAME: CRAIG DURAND PHONE: 510.446.2222
PROJECT OWNER:	SSFUSD 398 B STREET S. SAN FRANCISCO, CA 94080
TOTAL LANDSCAPE AREA:	PUBLIC
PROJECT TYPE:	832 SF
WATER SUPPLY TYPE:	POTABLE

MWELO CERTIFICATION

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

LANDSCAPE ARCHITECT SIGNATURE AND DATE — 02/28/2019

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

CERTIFIED IRRIGATION DESIGNER SIGNATURE AND DATE — 02/28/2019

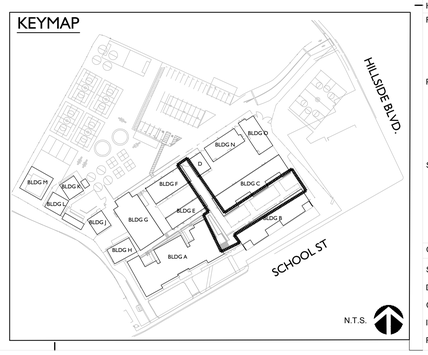
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LANDSCAPE ARCHITECT SIGNATURE AND DATE — 02/28/2019

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SCALE: 1" = 10'-0"

KEYMAP



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Facility

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Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

HYDROZONE PLAN

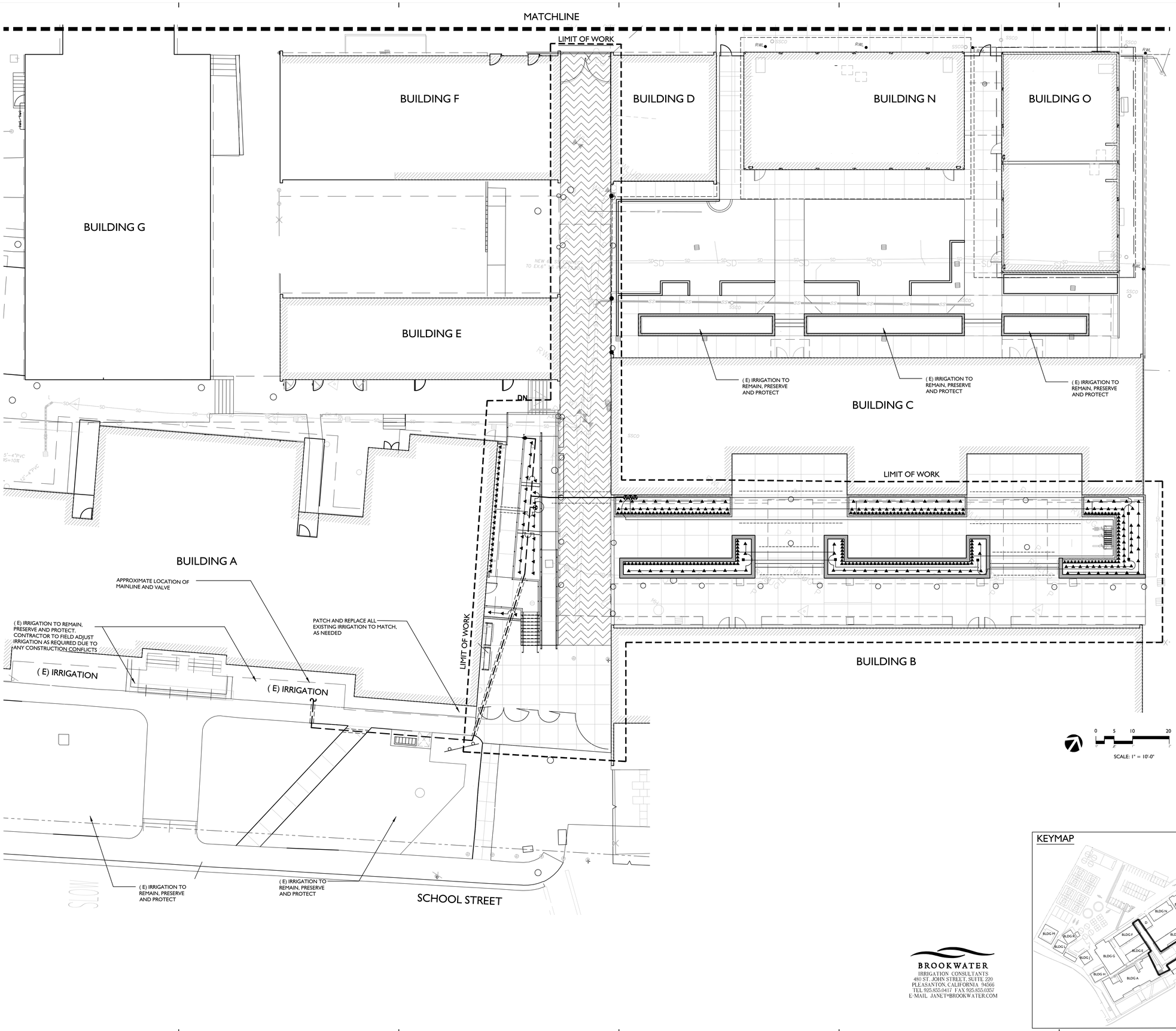
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Revit Version: 2017

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HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

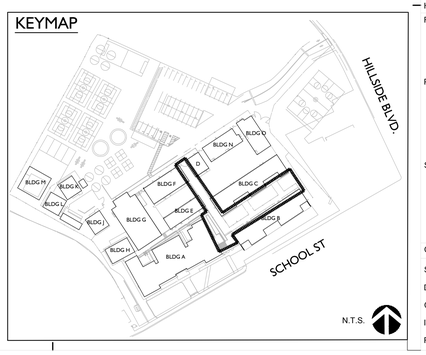
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MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

IRRIGATION PLAN

KEYMAP



BROOKWATER
IRRIGATION CONSULTANTS
480 ST. JOHN STREET, SUITE 220
PLEASANTON, CALIFORNIA 94566
TEL 925.553.0417 FAX 925.553.0357
E-MAIL JANET@BROOKWATER.COM

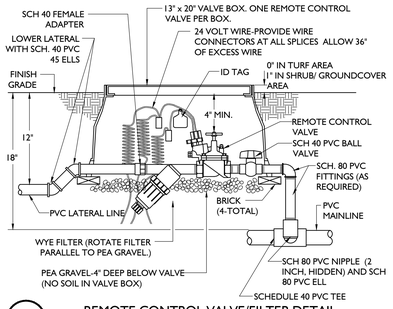
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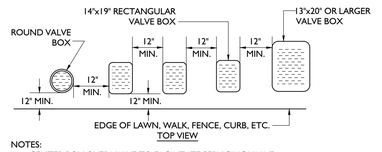
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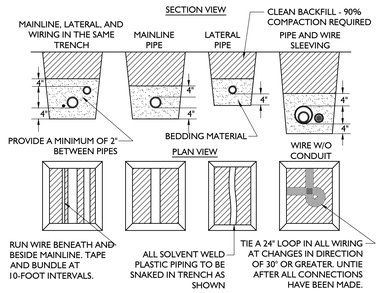


1 REMOTE CONTROL VALVE/FILTER DETAIL
NOT TO SCALE



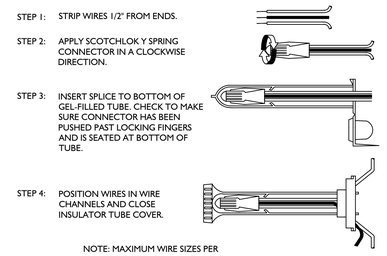
NOTES:
1. CENTER BOX OVER VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN AREA ONLY IF GROUND COVER/SHRUB AREA DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOX EDGES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. VALVE BOXES SHALL HAVE BOLT DOWN LIDS WITH BOLTS INSTALLED.
7. VALVE BOXES SHALL BE BY NDS, CARSON, OR EQUAL.

2 VALVE BOX INSTALLATION DETAIL
NOT TO SCALE



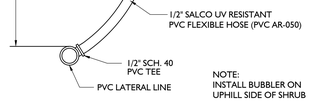
NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SPECIFIED PVC PIPE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS REFER TO IRRIGATION LEGEND AND SPECIFICATIONS.

3 PIPE AND WIRE TRENCHING
NOT TO SCALE



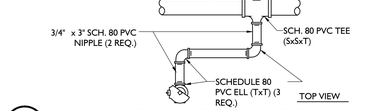
NOTE: MAXIMUM WIRE SIZES PER CONNECTOR ARE THREE # 14'S OR TWO #12'S.

4 WIRE CONNECTION DETAIL
NOT TO SCALE

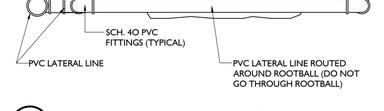


NOTE:
INSTALL BUBBLER ON UPHILL SIDE OF SHRUB

5 SHRUB BUBBLER ON FLEX HOSE DETAIL
NOT TO SCALE



6 QUICK COUPLER IN BOX DETAIL
NOT TO SCALE



7 TREE BUBBLER DETAIL
NOT TO SCALE

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Revisions

No.	Revisions	By	Date	Appr.

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Architect/Engineer Of Record: ____

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E-MAIL JANET@BROOKWATER.COM

HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

IRRIGATION DETAILS

Client Project Number: Client Proj. #

Scale: 1" = 10'-0"
Drawn By: NG
Checked By: CG
Issue Date: 03/11/19
Revit Version: 2017

Sheet
L3.2

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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IRRIGATION NOTES

1. THE CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.

2. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO THEIR WORK.

3. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER.

4. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. COORDINATE WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY THEIR WORK AT NO ADDITIONAL COST TO THE OWNER.

6. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL WORK AND PLAN WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEMS, PLANTING, AND ARCHITECTURAL FEATURES.

7. IRRIGATION CONTROL WIRE SHALL BE #14, U.L. APPROVED FOR DIRECT BURIAL. COMMON WIRE SHALL BE #12 U.L. APPROVED AND SHALL BE WHITE IN COLOR. WIRING TO INDIVIDUAL REMOTE CONTROL VALVE SHALL BE COLOR OTHER THAN WHITE.

8. SPLICING OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING PERMITTED INSIDE SLEEVES.

9. WIRE CONNECTORS SHALL BE 3M-DBR/Y-6 DIRECT BURY UNLESS OTHERWISE NOTED.

10. INSTALL VALVE BOXES MINIMUM 12" FROM AND PERPENDICULAR TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, ETC. AND EACH BOX SHALL BE MINIMUM 12" APART. SHORT SIDE OF VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, ETC.

11. IN LOCATIONS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND EXCESS WATER, USE POP-UP SPRINKLER MODELS WITH INTEGRAL CHECK VALVE OR A KING BROS. CV SERIES CHECK VALVE ON SHRUB RISERS IN LIEU OF SCHEDULE 80 COUPLING. FOR DRIP OR BUBBLER CIRCUITS, INSTALL KING BROS. CV SERIES CHECK VALVES IN LATERAL LINES FOR EVERY 10' OF ELEVATION CHANGE.

12. ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS, BUBBLERS AND DRIP TUBING. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES.

13. NOTIFY ARCHITECT OF ANY ASPECTS OF LAYOUT THAT WILL PROVIDE INCOMPLETE OR INSUFFICIENT WATER COVERAGE OF PLANT MATERIAL AND DO NOT PROCEED UNTIL HIS/HER INSTRUCTIONS ARE OBTAINED.

14. ALL EXCAVATIONS ARE TO BE FILLED WITH COMPACTED BACKFILL. REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK.

15. CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.

16. NOTIFY UNDERGROUND SERVICE ALERT AT 811 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.

CITY OF
SAN FRANCISCO
LANDSCAPE WATER USE STATEMENT

PROJECT NAME: **MARTIN ELEMENTARY SCHOOL**
PROJECT ADDRESS: 35 SCHOOL STREET

PREPARED BY: JANET LUEHRS (CID, CLIA #43274)
BROOKWATER INC., IRRIGATION CONSULTANTS
480 SAINT JOHN STREET, SUITE 220
PLEASANTON, CA 94566
925-855-0417
925-855-0357 (FAX)
Janet@Brookwater.com (e-mail)

"I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the irrigation design plan."

Signed: Janet Luehrs

PART ONE	MAXIMUM APPLIED WATER ALLOWANCE (MAWA)	
		MAWA = ETo x .62 x [(ETAFx HA) + ((1-ETAF) x SLA)]
	YEARLY ETo	35.1
	CONVERSION FACTOR	0.62
	ETAF	0.45
	TOTAL IRRIGATED LANDSCAPE AREA (HA)	1,367 SQUARE FEET
	SPECIAL LANDSCAPE AREA (SLA)	0 SQUARE FEET
	LANDSCAPE WATER ALLOWANCE	**13,387 GALLONS PER YEAR**
	TOTAL ACRE FEET	0.04 ACRE FEET

PART TWO	ESTIMATED TOTAL WATER USE (ETWU)	
		(AVERAGE *ETAF* AND *ETWU* FROM WATER EFFICIENT LANDSCAPE WORKSHEET)
	AVERAGE ETAF FOR REGULAR LANDSCAPE AREAS (TOTAL ETAF x AREA / TOTAL AREA)	0.38
	ETWU FOR REGULAR LANDSCAPE AREAS	**11,357 GALLONS PER YEAR**
	SITE WIDE ETAF	0.38
	ETWU FOR ALL LANDSCAPE AREAS	**11,357 GALLONS PER YEAR**
	TOTAL ACRE FEET	0.03 ACRE FEET

IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION	PSI	FLOW RATE (GPM)	MAX. RADIUS	MAX. SPACING
■	LF40-PC	TORO PRESSURE COMPENSATING DRIP BUBBLER - INSTALL TWO BUBBLER PER TREE	40	4 GPH	-	-
▲	LF40-PC	TORO PRESSURE COMPENSATING DRIP BUBBLER - INSTALL ONE BUBBLER PER SHRUB	40	4 GPH	-	-
☢	700-1 / T-ALFS10150-S / LT-1000-T	IRRITROL REMOTE CONTROL VALVE WITH TORO WYE FILTER AND KBI SCH 80 PVC BALL VALVE				
◆	33DNP	RAIN BIRD QUICK COUPLING VALVE				
C-1 / 1"	1.6 / 15 / 30	CONTROLLER AND STATION NUMBER APPLICATION RATE (INCHES) OPERATING PRESSURE (PSI) APPROXIMATE GALLONS PER MINUTE REMOTE CONTROL VALVE SIZE				
		EXISTING MAIN LINE				
		NEW MAIN LINE TO MATCH EXISTING MAIN LINE				
		LATERAL LINE: 1120-CLASS 200 PSI PVC SOLVENT WELD PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER.				
		SLEEVE (SL): 1120-CLASS 200 PVC PLASTIC PIPE. 24" COVER.				

MARTIN ELEMENTARY SCHOOL
WATER EFFICIENT LANDSCAPE WORKSHEET

Reference Evapotranspiration (Eto) **35.1**

ZONE NO.	PLANT TYPE	HYDROZONE* (PLANT WATER USE)	PLANT FACTOR (PF)	IRRIGATION METHOD**	IRRIGATION EFFICIENCY (IE)	ETAF (PF/IE)	HYDROZONE AREA (HA) (Sq Ft)	ETAF x HA	ESTIMATED TOTAL WATER USE (ETWU)	% LANDSCAPE AREA
REGULAR LANDSCAPE AREA										
X-1	SHRUB	LW	0.30	B	0.81	0.37	324	120	2,611	23.7%
X-2	SHRUB	LW	0.30	B	0.81	0.37	396	147	3,192	29.0%
X-3	SHRUB	LW	0.30	B	0.81	0.37	584	216	4,707	42.7%
X-4	TREE	MW	0.50	B	0.81	0.62	63	39	846	4.6%
TOTALS (REGULAR LANDSCAPE AREAS)							**1,367**	**522**	**11,357**	**100.0%**
SPECIAL LANDSCAPE AREA										
	0			0		1.00	0	0	0	0.0%
TOTALS (SPECIAL LANDSCAPE AREAS)							**0**	**0**	**0**	**0.0%**
TOTALS FOR ALL AREAS							***1,367***	***522***	***11,357***	***100%***

HYDROZONE SUMMARY

*Hydrozone Description	Total Sq. Ft.	% of Landscape
Cool Season Turf (CST)	0	0.0%
Warm Season Turf (WST)	0	0.0%
High Water Use Plants (HW)	0	0.0%
Bioretention Plants (BR)	0	0.0%
Medium Water Use Plants (MW)	63	4.6%
Low Water Use Plants (LW)	1,304	95.4%
Very Low Water Use Plants (VLW)	0	0.0%
Water Feature	0	0.0%
Special Landscape Area (SLA)	0	0.0%
TOTAL	1,367	100.0%

**Irrigation Method	Total Sq. Ft.	% of Landscape
Rotor (FC-R, PC-R)	0	0.0%
Multi-Stream Rotator (MR)	0	0.0%
Spray (S)	0	0.0%
Bubbler (B)	1,367	100.0%
Drip (D)	0	0.0%
In-Line Drip (DL)	0	0.0%
Micro Spray (MS)	0	0.0%
Other (O)	0	0.0%

BROOKWATER
IRRIGATION CONSULTANTS
480 ST. JOHN STREET, SUITE 220
PLEASANTON, CALIFORNIA 94566
TEL 925.855.0417 FAX 925.855.0357
E-MAIL JANET@BROOKWATER.COM

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AC ____ FS ____ SS ____
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REGISTERED LANDSCAPE PROJECT LOT — Janet L Luehrs — Expires 8/31/2017 — 9/07/2018 — L.A. — STATE OF CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING • URBAN DESIGN
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Architect/Engineer Of Record:_____

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Oakland, CA 94612
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HY Architects Project number: Project Number

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title
IRRIGATION NOTES AND LEGEND

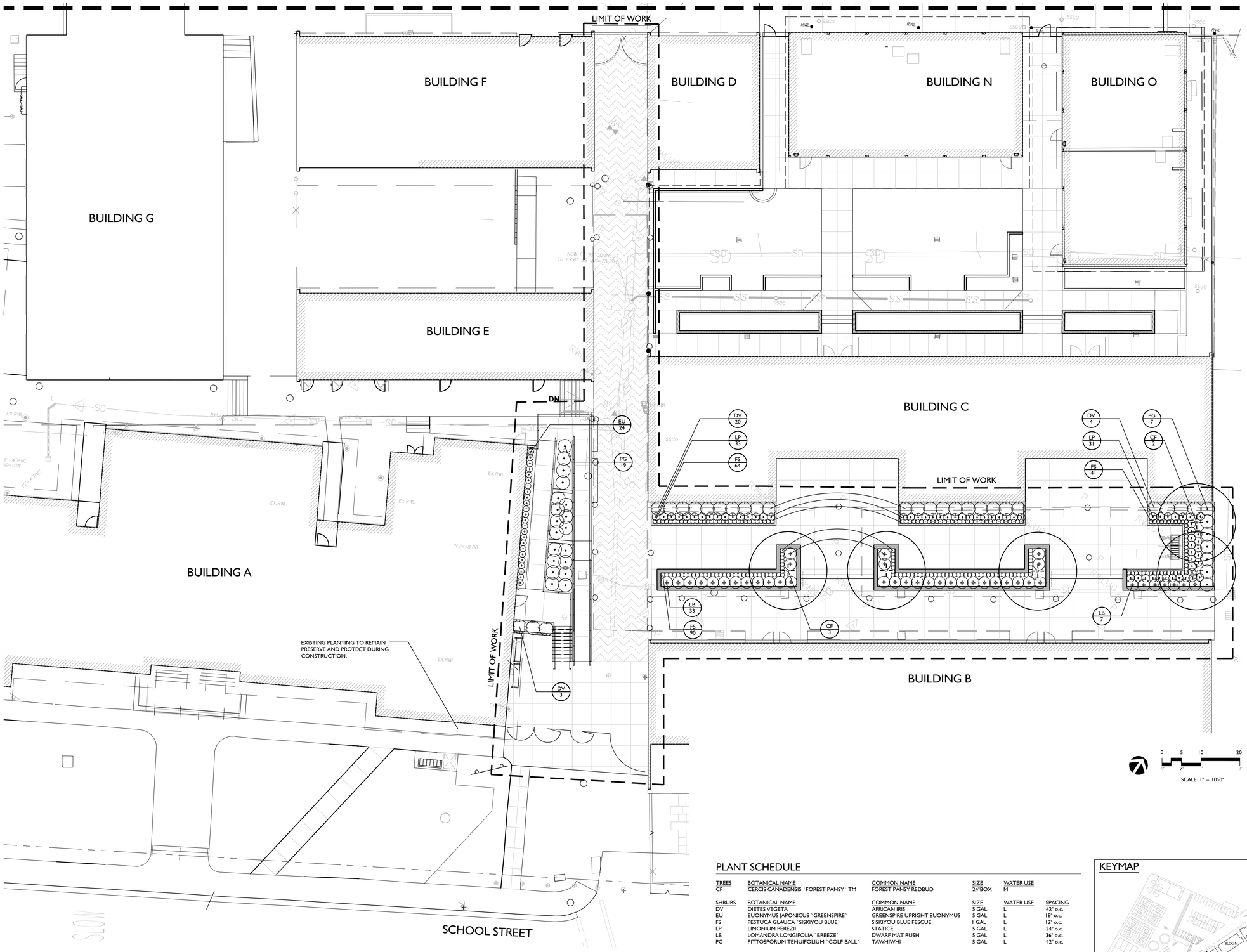
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Drawn By: NG
Checked By: CG
Issue Date: 03/11/19
Revit Version: 2017

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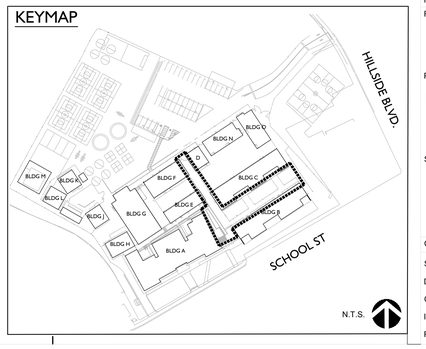
SCALE: 1" = 10'-0"

PLANT SCHEDULE

TREES	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE
CF	CERCIS CANADENSIS `FOREST PANSY` TM	FOREST PANSY REDBUD	24"BOX	M

SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	SPACING
DV	DIETES VEGETA	AFRICAN IRIS	5 GAL	L	42" o.c.
EU	EUONYMUS JAPONICUS `GREENSPIRE`	GREENSPIRE UPRIGHT EUONYMUS	5 GAL	L	18" o.c.
FS	FESTUCA GLAUCA `SISKIYOU BLUE`	SISKIYOU BLUE FESCUE	1 GAL	L	12" o.c.
LP	LIMONIUM PEREZII	STATICE	5 GAL	L	24" o.c.
LB	LOMANDRA LONGIFOLIA `BREEZE`	DWARF MAT RUSH	5 GAL	L	36" o.c.
PG	PITTOSPORUM TENUIFOLIUM `GOLF BALL`	TAWHIWHI	5 GAL	L	42" o.c.

KEYMAP



Revisions

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5/31/2017
9/07/2018
L.A.
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HY Architects Project number: Project Number

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

PLANTING PLAN

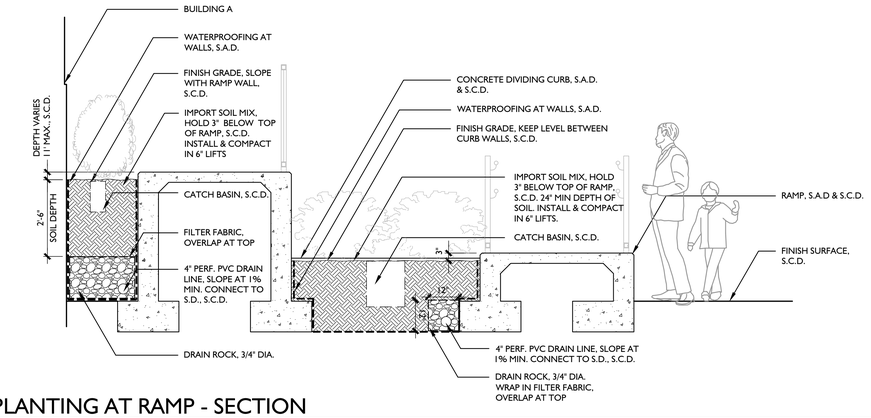
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Issue Date: 03/11/19
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Sheet
L4.1A

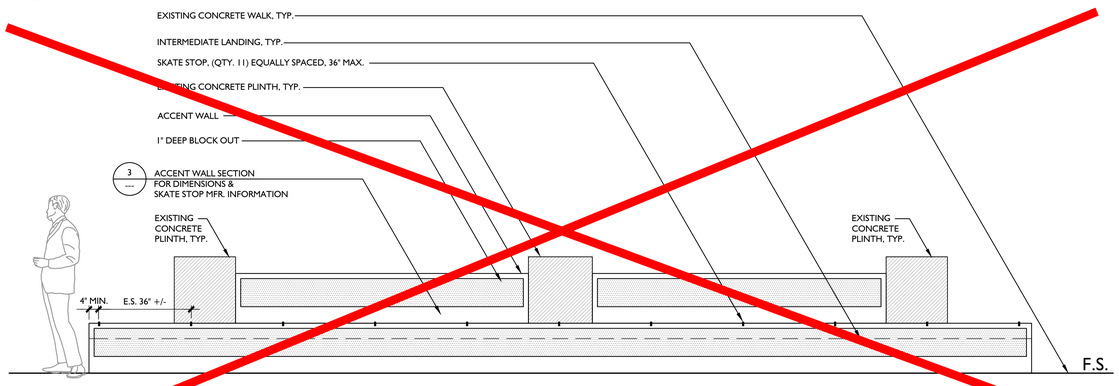
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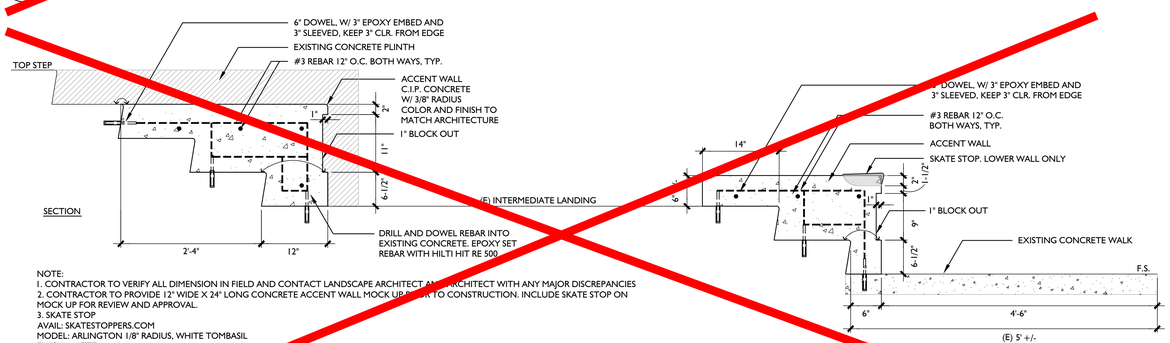
5 PLANTING AT RAMP - SECTION

SCALE: 1/2" = 1'-0"



4 ACCENT WALL - ELEVATION

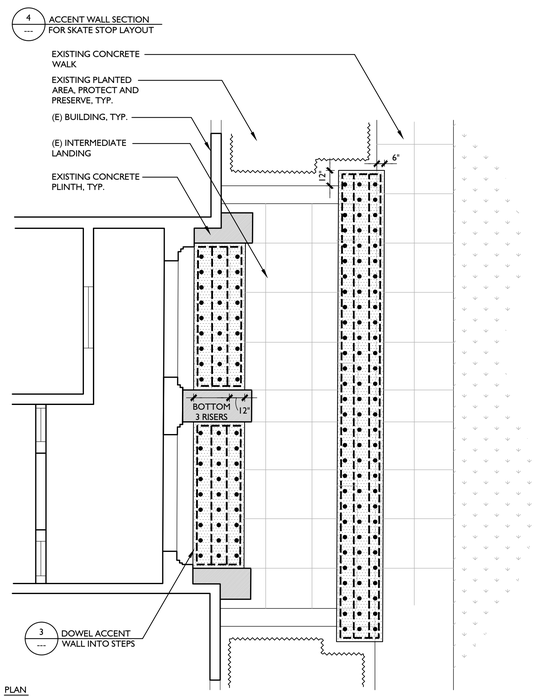
SCALE: 1/2" = 1'-0"



NOTE:
1. CONTRACTOR TO VERIFY ALL DIMENSION IN FIELD AND CONTACT LANDSCAPE ARCHITECT AND ARCHITECT WITH ANY MAJOR DISCREPANCIES
2. CONTRACTOR TO PROVIDE 12" WIDE X 24" LONG CONCRETE ACCENT WALL MOCK UP PRIOR TO CONSTRUCTION. INCLUDE SKATE STOP ON MOCK UP FOR REVIEW AND APPROVAL.
3. SKATE STOP
AVAIL: SKATESTOPPERS.COM
MODEL: ARLINGTON 1/8" RADIUS, WHITE TOMBASIL
FINISH: MATTE
MOUNTING: EMBEDMENT
INSTALL PER MFR RECOMMENDATIONS AND DETAILS. SPACE EQUALLY PER DETAILS AT 36" MAX.
CONTRACTOR TO SUBMIT SHOP DRAWINGS WITH SKATE STOP LOCATIONS AT ACCENT WALL TO LANDSCAPE ARCHITECT
4. CONTRACTOR TO PROVIDE A WALL MOCKUP FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

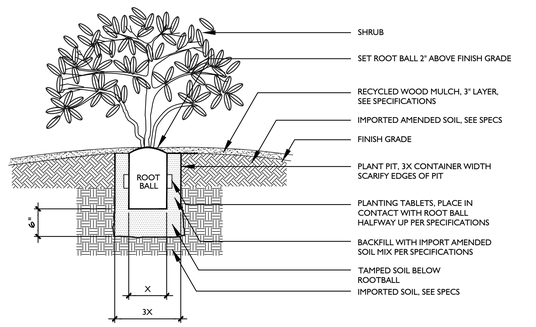
3 ACCENT WALL - SECTION

SCALE: 1" = 1'-0"



2 ACCENT WALL - PLAN

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



1 SHRUB PLANTING

SCALE: N.T.S.

PATH: P:\SOUTH SAN FRANCISCO\MARTIN ELEMENTARY\ACAD_PHASE(I)_DG\D-MARTIN-PHI.DWG
PLOT DATE: 2/8/2019 9:47 PM

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REGISTERED LANDSCAPE ARCHITECT — JAMES GATES — No. 2499 — Renewal 8/31/2017 — Expiration 9/07/2018 — LA — STATE OF CALIFORNIA

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Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

MARTIN ELEMENTARY SCHOOL MODERNIZATION

Sheet Title

CONSTRUCTION DETAILS

Client Project Number: Client Proj. #

Scale: AS NOTED
Drawn By: NG
Checked By: CG
Issue Date: 03/11/19
Revit Version: 2017

Sheet
L5.1

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY



MFR: LANDSCAPE FORMS
AVAILABLE: ROSS RECREATION EQUIPMENT
CONTACT: ALEX HALEY @ 707.538.3800

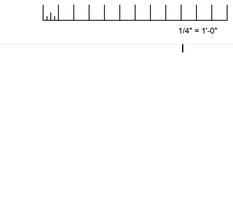
VIEW 1



VIEW 2

9 PLAY STRUCTURE

N.T.S.

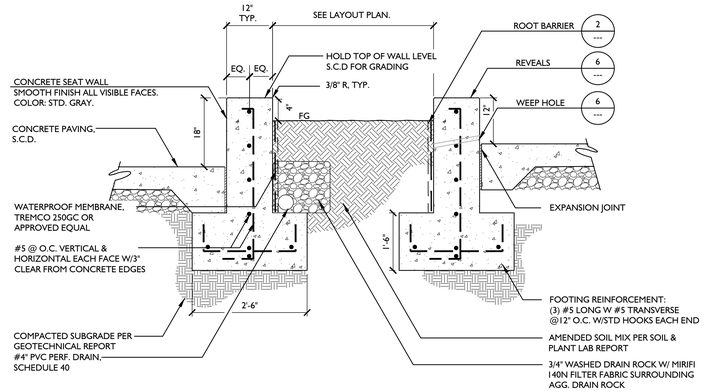


NOTES:
1. CONTRACTOR TO PROVIDE CPSI INSPECTION UPON COMPLETION.
2. CONTRACTOR SHALL PERFORM A COMPACTION TEST OF AGGREGATE BASE TO CONFIRM CONDITIONS MEET MFR'S SPECIFICATIONS PRIOR TO INSTALLATION OF POURED IN PLACE.
3. MAXIMUM FALL HEIGHT OF EQUIPMENT = 8 FEET
4. SURFACING THICKNESS = 4"
5. SURFACING SHALL MEET ALL REQUIREMENTS OF ASTM 1951F AND ASTM F1292
6. GROUND SURFACES MUST COMPLY WITH 11B-1008.2.6 AND ASTM F-1487-98 STANDARD

8 SYNTHETIC PLAY SURFACING

SCALE: 1" = 1'-0"

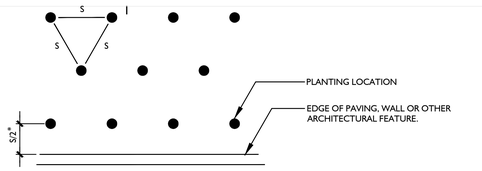
NOTE: DSA SS & FLS DOES NOT REVIEW PLAYGROUND EQUIP. PER IR A-22



CONCRETE PLANTER NOTES:
1. ALL PLANTER WALLS SHALL BE WATERPROOFED WITH TREMCO 250GC OR APPROVED EQUAL IN ACCORDANCE WITH THE MFR'S STANDARD DETAILS AND SPECIFICATIONS
2. CONTRACTOR SHALL PROVIDE A 3' LONG X 18"HIGH X 18" WIDE CONCRETE MOCKUP OF THE WALL REFLECTING JOINT TYPES, SKATE STOPS FOR EACH FINISH AND COLOR SPECIFIED
3. ALL WALLS SHALL BE PLUMB, STRAIGHT WITH TOP OF WALL HELD LEVEL

7 CONCRETE PLANTER WALL

SCALE: 3/4" = 1'-0"



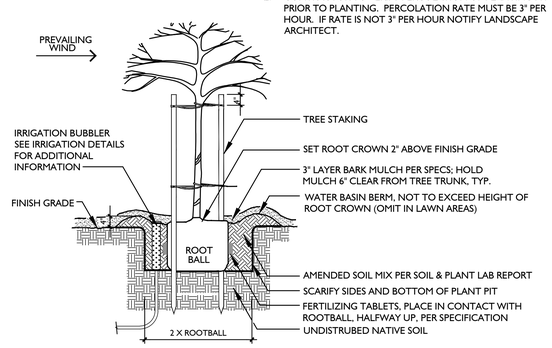
NOTES:
A. S = PLANT SPACING DISTANCE ON CENTER, SEE CHART
B. FOR USE AS A GUIDE FOR SHRUBS AND GROUNDCOVER WHEN PLANTS ARE SPACED EQUIDISTANT FROM EACH OTHER.
* AT ALL SHRUB AND GROUNDCOVER LOCATIONS WHERE SPRAY IRRIGATION IS USED. HOLD PLANTING 24" CLEAR OF CURB LINE IN CONJUNCTION WITH IRRIGATION PER AB 1881.

Plant Quantity Chart	
Spacing	# of Plants/S.F.
6" o.c.	4.60
8" o.c.	2.60
12" o.c.	1.15
18" o.c.	.512
24" o.c.	.290
30" o.c.	.185
36" o.c.	.128
42" o.c.	.087
48" o.c.	.063

4 PLANT SPACING

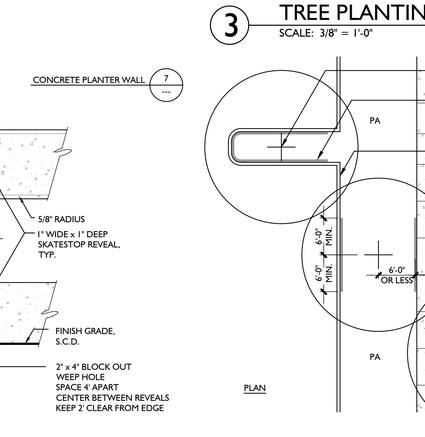
SCALE: 1" = 1'-0"

NOTES:
1. ROOT CONTROL BARRIER MUST BE USED IF TREE IS PLANTED WITHIN 5' OF CURB OR SIDEWALK. SEE DETAIL, THIS SHEET
2. CONTRACTOR TO VERIFY PERCOLATION OF PLANTING PIT PRIOR TO PLANTING. PERCOLATION RATE MUST BE 1" PER HOUR. IF RATE IS NOT 1" PER HOUR NOTIFY LANDSCAPE ARCHITECT.



3 TREE PLANTING DETAIL

SCALE: 3/8" = 1'-0"

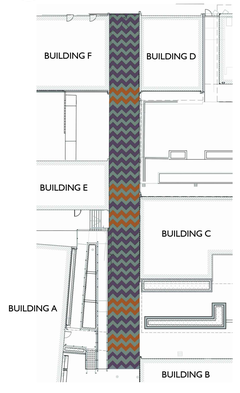


6 CONCRETE PLANTER WALL ELEVATION

SCALE: 3/4" = 1'-0"

2 LINEAR ROOT BARRIER

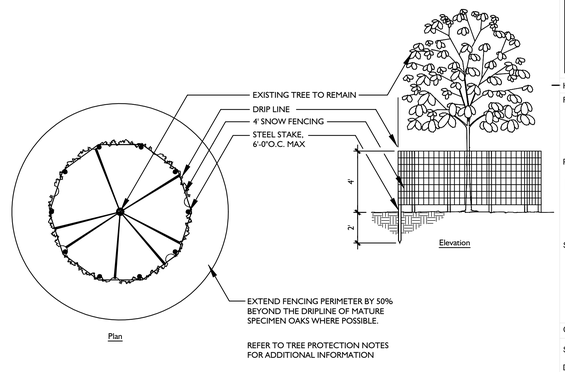
SCALE: 1" = 10'-0"



NOTES:
1. SEE MATERIALS PLAN AND PAVING SCHEDULE FOR COLOR INFORMATION
2. PAINT SHALL BE STREET BOND BY GAF
3. AVAILABLE: ASPHALT IMPRESSIONS
4. CONTACT: JIM PREVITE 916.287.9408
5. CONTRACTOR TO INSTALL PER MANUFACTURERS RECOMMENDATIONS

5 ASPHALT COLOR

SCALE: N.T.S.



1 EXISTING TREE PROTECTIVE FENCING

SCALE: N.T.S.

SAN FRANCISCO UNIFIED SCHOOL DISTRICT • SOUTH SF EDUCATION FOR ALL

Revisions

No.	Revisions	By	Date	Appr.

BID SET
NOT FOR CONSTRUCTION
03/11/2019

DSA APPROVAL
CERTIFICATION STAMP
DIVISION OF STATE ARCHITECT
APPL. 01-116977
AC ___ FS ___ FS ___
DATE ___

REGISTERED LANDSCAPE ARCHITECT — JAMES GATES — No. 4666 — 8/31/2017 — RENEWAL 9/07/2018 — LA. — STATE OF CALIFORNIA

GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE
LAND PLANNING • URBAN DESIGN
2671 CROW CANYON RD. SAN RAMON, CA 94583
T 925.736.8176 www.dgates.com

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Architect/Engineer Of Record: _____

HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: Project Number

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MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
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Sheet
L5.2

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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ACCESSIBILITY AND TRANSFER SYSTEM NOTES

5-12 AREA

TOTAL ELEVATED PLAY COMPONENTS	10		
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	10	REQUIRED	5
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	4	REQUIRED	3
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	4	REQUIRED	4

= PARKING/CLEAR GROUND SPACE (ADA REQUIREMENT - 30" x 48" PARALLEL AND CANTERED ON TRANSFER POINT OPENING)

= TRANSFER SPACE (ADA REQUIREMENT - 24" WIDE BY 14" DEEP)

= ACCESSIBLE ELEVATED ROUTE (ADA REQUIREMENT - 8" MAX ELEVATION CHANGES BY 36" MIN WIDTH)

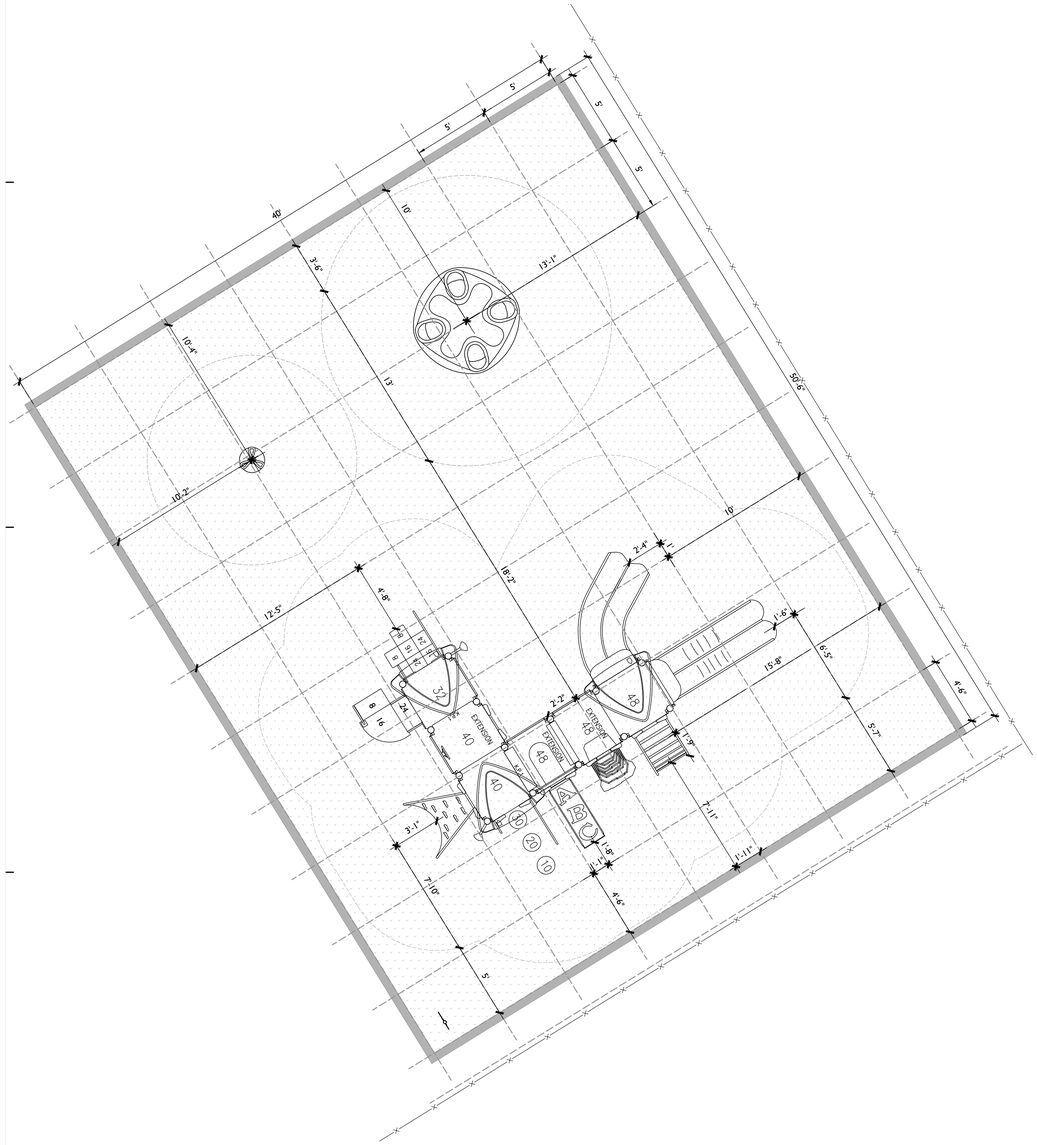
= ACCESSIBLE GROUND ROUTE

(6) = ELEVATED EVENT, ACCESSIBLE BY TRANSFER

(4) = ACCESSIBLE GROUND LEVEL EVENT

5-12 ACCESSIBLE COMPONENTS ELEVATED:
1. BLOCK CLIMBER
2. PIPE BARRIER W/ WHEEL
3. VERT. LADDER W/ VIBE HANDHOLDS
4. CONICAL CLIMBER W/ VIBE HANDHOLDS
5. POD CLIMBER W/ VIBE HANDHOLDS AND HANDLOOP AND HANDRAIL
6. ABC CLIMBER W/ VIBE HANDHOLDS
7. MINI SUMMIT CLIMBER W/ VIBE HANDHOLDS
8. COZY CLIMBER W/ VIBE HANDHOLDS
9. DOUBLE SWIRL SLIDE
10. DOUBLE WAVE SLIDE

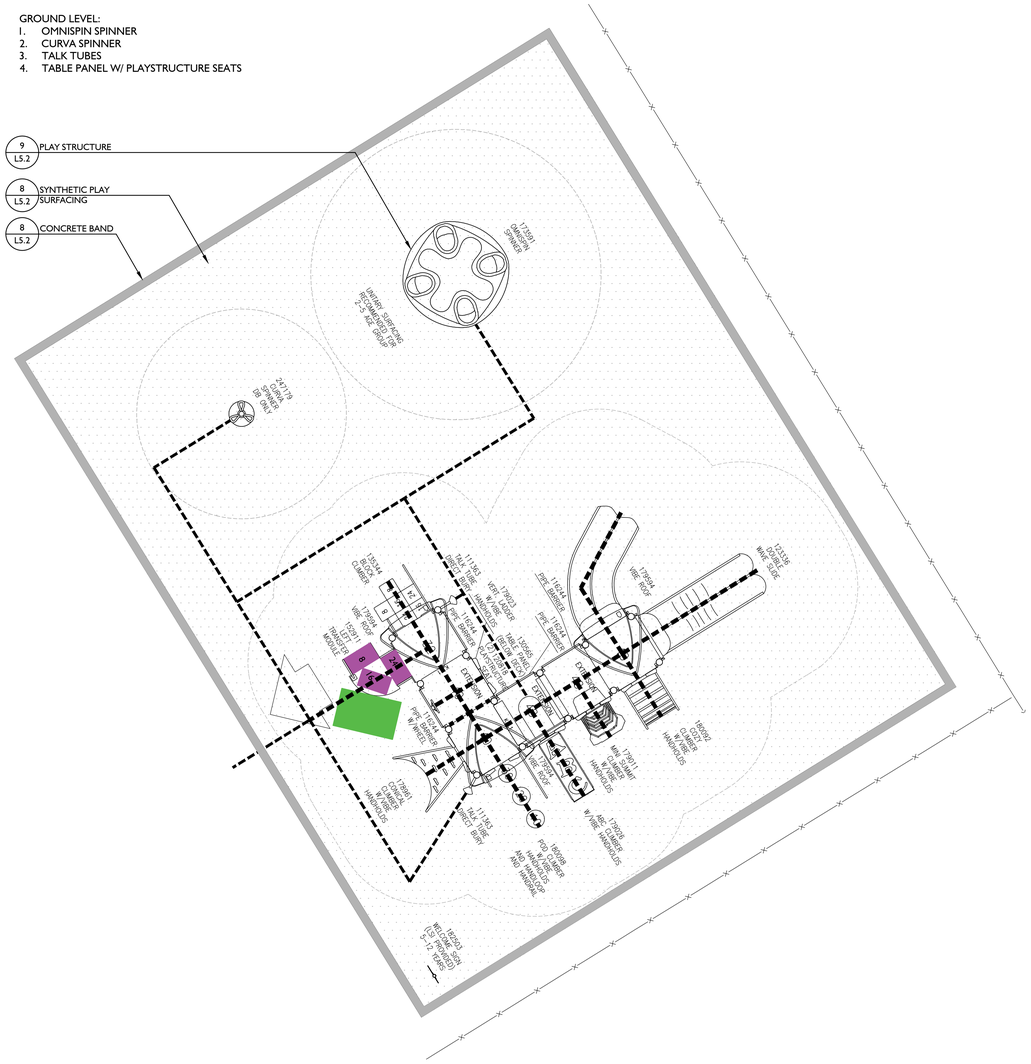
GROUND LEVEL:
1. OMNISPIN SPINNER
2. CURVA SPINNER
3. TALK TUBES
4. TABLE PANEL W/ PLAYSTRUCTURE SEATS



2 PLAY STRUCTURE LAYOUT ENLARGEMENT

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

NOTE: DSA SS & FLS DOES NOT REVIEW PLAYGROUND EQUIP. PER IR A-22



1 ACCESSIBILITY AND TRANSFER SYSTEM COMPLIANCE ENLARGEMENT

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

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6/01/2017
9/07/2018
LA

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Sheet
L5.3

0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"
0 5' 25' 1/8" = 1'-0"
0 1' 12' 1/4" = 1'-0"
0 1' 6' 1/2" = 1'-0"
0 4' 3/4" = 1'-0"
0 1' 3' 1" = 1'-0"
0 2' 1 1/2" = 1'-0"
0 1' 3" = 1'-0"

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ALTERNATE MEANS OF CONFORMANCE LETTER

HY HIBSER YAMAUCHI Architects, Inc.

ALTERNATE MEANS OF CONFORMANCE LETTER

Martin Elementary School
Toilet Room Portable Project
South San Francisco Unified School District

April 25, 2017

Hibser Yamauchi Architects
Architect of Record: Marcus Hibser
Contact Person: Craig Durand
300 – 27th St, Oakland, CA 94612
(510) 446-2222 x 275
mhibser@hy-arch.com
cdurand@hy-arch.com

DESCRIPTION OF EXISTING CONDITION

Martin Elementary School currently has an existing portable classroom building, Building 'J' (DSA Appl No. 67820 cir.1997) at the northwest site adjacent to the multi-purpose Building 'G' (DSA Appl. No. 9903 cir. 1952). The separation distance between the two buildings is 19'-9". The portable classroom building has an existing fire sprinkler system. The multi-purpose building has a assumed one-hour exterior wall and is also sprinklered.

Additionally, two existing portable classroom buildings Building 'K' and Building 'L' are located north of Building 'J.' Buildings 'L' and 'K' were added to the site in 2002 with DSA Application 01-104789.

DESCRIPTION OF PROPOSED WORK

It is the intension of the South San Francisco Unified School District to include on the Martin Elementary School campus a portable toilet room building during of the summer of 2017. The desired location on campus would be adjacent to the existing portable buildings (mentioned above).

A fire hydrant will be constructed on site this summer per DSA Appl No. 01-116354 Increment 1.

300 – 27th Street | Oakland, CA 94612 | phone: (510) 446-2222 | fax: (510) 446-2211
Oakland Davis Los Angeles

HY Martin Elementary School
New Toilet Room Portable Project
South San Francisco Unified School District

DESCRIPTION OF ALTERNATE MEANS OF CONFORMANCE

The new 12 x 40 toilet room portable building will be clustered with the adjacent portable buildings, per CBC 503.1.2, for use with adjacent school program. The combined area of the buildings is under the basic allowable per CBC table 506.2. The new toilet room portable will be protected by the new fire hydrant and the cluster of buildings and 10 feet clear on all sides to a fire separation distance line (per CBC table 602) except for the above mentioned existing 9'-9" separation between classroom portable Building 'J' and multi-purpose Building 'G.'

Although the existing sprinklers in Building 'J' will not be a requirement due to the addition of a fire hydrant (DSA Appl No. 01-116354 Increment 1), it is our intention to consider the sprinkler protection of Building 'J' as a one-hour alternate means of conformance for the existing non-conforming 9'-9" separation to the fire separation distance line. Identification of the existing fire risers was discussed with DSA (Pre Application Meeting for 01-116354). A sign identifying the fire sprinkler riser for Building 'J' will be added to Building 'J' and Building 'M.'

Sincerely,

Marcus Hibser
Architect of Record
Hibser Yamauchi Architects, Principal

300 – 27th Street | Oakland, CA 94612 | phone: (510) 446-2222 | fax: (510) 446-2211
Oakland Davis Los Angeles

ABBREVIATIONS

&	AND	E.W.C	ELECTRICAL WATER COOLER		
<	ANGLE			R	RISER
@	AT	F.	FACE	RAD.	RADIUS
℄	CENTERLINE	F.A.	FIRE ALARM	RB	RESILIENT BASE
[	CHANNEL	F.B.	FLAT BAR	RCP	REFLECTED CEILING PLAN
ø	DIAMETER OR ROUND	F.BD.	FIRE BOARD	R.D.	ROOF DRAIN
⌇	FLOOR LINE	F.BELL	FIRE BELL	RGTR	REGISTER
//	PARALLEL	F.BKT.	FIRE BLANKET	R.H	ROBE HOOK
⊥	PERPENDICULAR	F.D.	FLOOR DRAIN	(RE)	RELOCATED
#	POUND OR NUMBER	FDN.	FOUNDATION	REF.	REFERENCE
⌇	PROPERTY LINE	F.E.	FIRE EXTINGUISHER	REFL	REFLECTED
		F.E.C.	FIRE EXTINGUISHER CABINET	REFR	REFRIGERATOR
ABV.	ABOVE	F.F.H	FINISH FLOOR	REINF.	REINFORCED
A.B.	ANCHOR BOLT	F.H.C.	FIRE HOSE CABINET	REQ.	REQUIRED
A/C	AIR CONDITIONING	FIN.	FINISH	RESIL	RESILIENT ROOM
ACC.	ACESSSIBLE OR ACCESSIBILITY	FLASH.	FLASHING	RM.	ROOM
ACOUS.	ACOUSTICAL	FLR.	FLOOR	R.O.	ROUGH OPENING
ACP	SUSPENDED ACOUSTIC PANEL CEILING	FLUOR.	FLUORESCENT	RST	RUBBER STAIR TREAD
ACT	ACOUSTIC PANEL CEILING	F.O.C.	FACE OF CONCRETE	R.W.L.	RAIN WATER LEADER
A.C.	ASPHALTIC CONCRETE	F.O.F.	FACE OF FINISH	RWD	REDWOOD
ADD.	ADDITIONAL	F.O.S.	FACE OF STUDS		
ADJ.	ADJACENT	FPRF.	FIREPROOF	S	SOUTH
A.D.	AREA DRAIN	F.R.	FIRE RETARDENT	S.A.D.	SEE ARCHITECTURAL DRAWINGS
A.F.F.	ABOVE FINISHED FLOOR	FRP.	FIBERGLASS REINFORCED PANEL	S.C.	SOLID CORE
AGGR.	AGGREGATE	FRZ.	FREEZER	S.C.D.	SEAT COVER DISPENSER
AL/ALUM.	ALUMINIUM	FT.	FOOT OR FEET	S.C.D.	SEE CIVIL DRAWINGS
ALT.	ALTERNATE	FTG.	FOOTING	SCHED.	SCHEDULE
AMEN.	AMENITIES	FURR.	FURRING	SCONC	SEALED CONCRETE
ANOD.	ANODIZED	FUT.	FUTURE	SCRN	SCREEN SOAP DISPENSER
A.P.	ACESS PANEL	F.S.	FIRE SHUTTER	S.D	SOAP DISPENSER
APPROX.	APPROXIMATE	F.V.	FIELD VERIFY	S.E.D	SEE ELECTRICAL DRAWINGS
ARCH.	ARCHITECTURAL			S.F.P.D	SEE FIRE PROTECTION DRAWING
ASB.	ASBESTOS	G.A.	GRAB BAR	SECT.	SECTION
ASPH.	ASPHALT	G.B.	GAUGE	SH	SHELF
		GALV.	GALVANIZED	SHR	SHOWER
BAL.	BALANCE	GL.	GLASS	SHT.	SHEET
BAS/BSMT.	BASEMENT	GND.	GROUND	SIM.	SIMILAR
BD.	BOARD	GR.	GRADE	S.L.D.	SEE LANDSCAPE DRAWING
B.G.	BUMPER GUARD	GSM	GALVANIZED SHEET METAL GYPSUM	S.M.D.	SEE MECHANICAL DRAWING
BITUM.	BITUMINOUS	GYP.	GYPSUM	S.M.S	SHEET METAL SCREW
BLDG.	BUILDING			S.N.D	SANITARY NAPKIN DISPENSER
BLK.	BLOCK	H.B.	HOSE BIB	S.N.R.	SANITARY NAPKIN RECEPTABLE
BLKG.	BLOCKING	H.C.	HOLLOW CORE	S.P.D.	SEE PLUMBING DRAWINGS
BM.	BEAM OR BENCH MARK	HD.	HEAD	SPEC.	SPECIFICATION
BO.	BOTH	HDWD.	HARDWOOD	SPECS.	SPECIFICATIONS
BOT.	BOTTOM	HDWE	HARDWARE	SQ.	SQUARE
BRG.	BEARING	HGB	HIGH IMPACT GYPSUM BOARD	S.S.D.	SEE STRCUTURAL DRAWINGS
BRK.	BRICK	H.M.	HOLLOW METAL	S.SK	SERVICE SINK
BRZ.	BRONZE	HORIZ.	HORIZONTAL	SS.	STAINLESS STEEL
BTWN.	BETWEEN	HR.	HOUR	STA	STATION
B.U.R.	BUILT-UP ROOFING	H.R.	HAND RAIL	STD.	STANDARD
		H.S.	HANGER STRIP	STL.	STEEL
CAB.	CABINET	HT.	HEIGHT	STOR.	STORAGE
CARP.	CARPET	H.W.D	HOT WATER DISPENSER	STRL.	STRUCTURAL
CBB	CEMENTITIOUS BACKER BOARD			STRCUT	STRCUTURAL
C.B.	CATCH BASIN	ICB	INTEGRAL COVE BASE	SUSP.	SUSPENDED
CEM.	CEMENT	ICP	INTERIOR CEMENT PLASTER	SYM	SYMMETRICAL
CER.	CERAMIC	I.D.	INSIDE DIAMETER		
CER.T.	CERAMIC TILE	INFO	INFORMATION	T.A.G	TONGUE AND GROVE
OFCI	CONTRACTOR FURNISH CONTRACTOR INSTALL	INSUL.	INSULATION	T.B	TOWEL BAR
		INT.	INTERIOR	TEL	TELEPHONE
C.G.	CORNER GUARD			TEMP	TEMPORARY
CIR.	CIRCLE	JAN	JANITOR	TER	TERRAZZO
C.I.	CAST IRON	JT	JOINT	THK.	THICK
C.J.	CONTROL JOINT			THRES	THRESHOLD
CL/CLR.	CLEAR	KIT	KITCHEN	T.O.	TOP OF
CLG.	CEILING	K.S.	KNEE SPACE	T.O.C.	TOP OF CURB
CLG.J.	CEILING JOIST			T.O.P.	TOP OF PARAPET
CLKG.	CAULKING	339		T.O.R.	TOP OF ROOF
CLO.	CLOSET	LAB	LABORATORY	T.O.S.	TOP OF SLAB
CLRM.	CLASSROOM	LAM	LAMINATE	T.O.W.	TOP OF WALL
CLS.	CLOSURE	LAV	LAVATORY	T.P.D.	TOILET PAPER DISPENSER
CMP	EXTERIOR CEMENT PLASTER	LIN	LINOLEUM	TOIL	TOILET
CMU	CONCRETE MASONRY UNIT	LKR	LOCKER	T.V	TELEVISON
CNTR.	COUNTER	LNDG	LANDING	TRD.	TREAD
CNTRTOP	COUNTERTOP	LT	LIGHT	TW	TACKABLE WALL BOARD PANEL
COL.	COLUMN	LTC	LIGHT WEIGHT CONCRETE OVER METAL DECK	TYP.	TYPICAL
COMB.	COMBINATION				
COMP.	COMPOSITION	L.P	LOW PARTITION	U.N.C.	UNIFIED COURSE THREAD
COMPT.	COMPACTOR			U.N.O.	UNLESS NOTED OTHERWISE
CONC.	CONCRETE	MAT	MATERIAL	UNF	UNFINISHED
CONN.	CONNECTION	MAX.	MAXIMUM	UR	URINAL
CONST.	CONSTRUCTION	M.B.	MACHINE BOLT		
CONT.	CONTINUOUS	M.C	MEDICINE CABNET	VCB	VENT COVE BASE
CONV.O.	CONVECTION OVEN	M.D.F.	MEDIUM DENSITY FIREBOARD	V.C.T	VINYL COMPOSITION TILE
CORR.	CORRIDOR	MECH.	MECHANICAL	VERT.	VERTICAL
C.O.	CLEAN OUT	MEMB	MEMBRANE	VEST.	VESTIBULE
C.R.	CURTAIN ROD	MET	METAL	V.T.R.	VENT THROUGH ROOF
CTR.	CENTER	MFR.	MANUFACTURER		
CTSK.	COUNTERSUNK	MH	MANHOLE	W	WEST OR WIRE
C.T.	CURTAIN TRACK	MIN.	MINIMUM	W.W.M.	WOVEN WIRE MESH
C.W.	COLD WATER	MIR	MIRRIOR	w/	WITH
		MISC.	MISCELLANEOUS	W.C.	WATER CLOSET
DBL.	DOUBLE	M.O.	MASONRY OPENING	WD.	WOOD
DEFLECT.	DEFLECTION	MOD	MODULAR	WDVP	WOODEN VENEER PANEL
DEMO.	DEMOLITION	MRGB	MOISTURE RESISTANT GYPSUM BOARD	WDW	WINDOW
DEPT.	DEPARTMENT	M.S.	MACHINE SCREW	WH	WATER HEATER
DET./DTL.	DETAIL	MTD	MOUNTED	WK	WORK
D.F.	DRINKING FOUNTAIN	MTG	MOUNTING	W.O	WHERE OCCURS
D.F.P.	DOOR FRAME PROTECTOR	MUL	MULLION	W/O	WITHOUT
DIA.	DIAMETER			WOM	WALK-OFF MAT
DIAG.	DIAGONAL	(N)	NEW	W.PT	WORKING POINT
DIM.	DIMENSION	N.	NORTH	WP.	WATERPROOF
DISP.	DISPENSER	N.I.C.	NOT IN CONTRACT	W.R	WATER
DIV.	DIVISION	NO. OR #	NUMBER	WSCT.	WAINSCOT
D.I.	DRAIN INLET	NOM.	NOMINAL	WT	WEIGHT
DN.	DOWN	N.S	NURSES STATION		
D.O.	DOOR OPENING	N.T.S.	NOT TO SCALE		
DR.	DOOR				
DS.	DOWNSPOUT	O.A	OVERALL		
D.S.P.	DRY STANDPIPE	OBS	OBSCURE		
D.T.	DRAIN TILE	O.C.	ON CENTER		
DWG.	DRAWING	O.D.	OUTSIDE DIAMETER		
DWR.	DRAWER	O.F.S	OUTSIDE FACE OF STUD		
D.W.	DISHWASHER	OFCI	OWNER FURNISHED CONTRACTER INSTALL		
E.	EAST	OFF.	OFFICE		
EA.	EACH	OFOI.	OWNER FURNISHED OWNER INSTALLED		
E.E	EACH END	O.H	OPPOSITE HAND		
E.F.	EXHAUST FAN	OPNG.	OPENING		
E.F.S.	EXTERIOR INSULATED FINSH SYSTEM	OPP.	OPPOSITE		
E.G	EDGE GUARD				
E.J.	EXPANSION JOINT	P.I.P	POURED IN PLACE		
E.P	ELECTRICAL PANEL	PL.	PLATE		
EL.	ELEVATION	PLAS.	PLASTER		
ELEC.	ELECTRICAL	PLN	PLAN		
ELEV.	ELEVATOR	P.LAM.	PLASTIC LAMINATE		
EMDF		PLYWD.	PLYWOOD		
EMER.	EMERGENCY	POR	PORCELAIN TILE		
E.N.	END NAIL	PR	PAIR		
ENCL.	ENCLOSURE	PRCST	PRE-CAST		
E.S	EACH SIDE	P.T.D	PAPER TOWEL DISPENSER		
EXP.	STRUCTURE	P.T.D./R	COMBINATION PAPERTOWEL DISPENSER/RECEPTABLE		
EXP.B.	EXPANSION				
EXPO.	EXPOSE	P.T.R	PAPER TOWEL RECEPTABLE		
EXPOS	EXPOSED	P.T.S	PNEUMATIC TUBE SYSTEM		
EXST.	EXISTING	PT	POINT		
EXT.	EXTERIOR	PTD.	PAINTED		
EXTR.	EXTRUSION	PTN.	PARTITION		
EQ.	EQUAL	PVC	POLYVINYL CHLORIDE		
EQUIP.	EQUIPMENT				
EQUIV.	EQUIVALENT	Q.T	QUARRY TILE		

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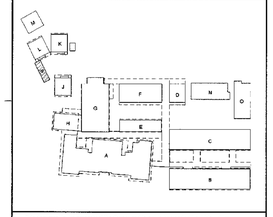
Revisions

No.	Revisions	By	Date	Appr.

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ACS DATE APR 24 2017 SSS

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HY Architects Project number: 4539

Facility

MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project

NEW MODULAR RESTROOM BUILDING AND RAMP

Sheet Title

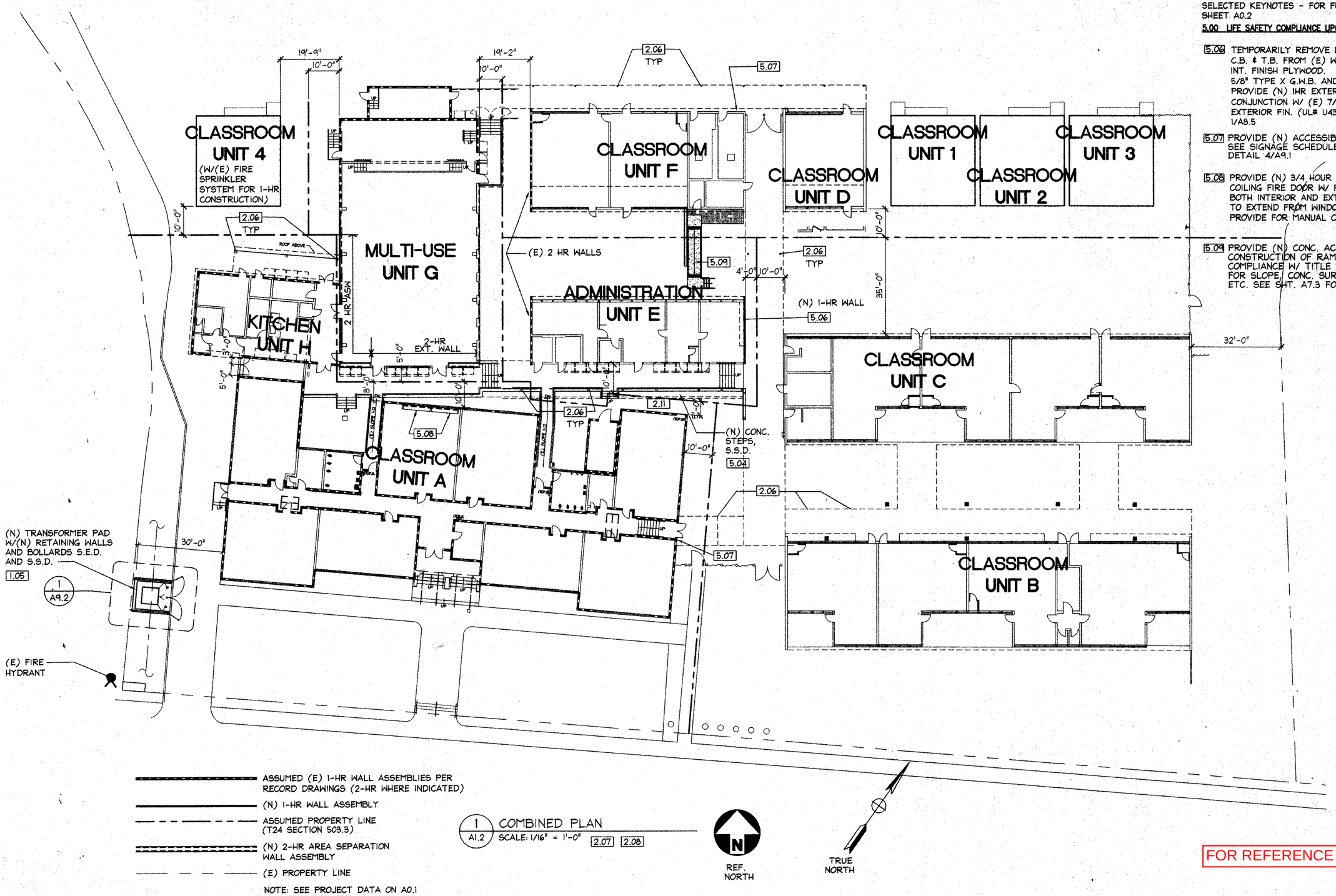
ABBREVIATIONS AND ALTERNATE MEANS OF CONFORMANCE LETTER

Client Project Number: Client Proj. #

Scale: 12" = 1'-0"
Drawn By: OA
Checked By: CD
Issue Date: 04/25/2017
Revit Version: 2017

Sheet
REF_ G0.2

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1 A1.2 COMBINED PLAN
SCALE: 1/16" = 1'-0" 2.07 2.08

FOR REFERENCE ONLY

SHEET NOTES

1. SEE GENERAL NOTES AND DRAWING LEGEND SHEET A0.1
2. SEE KEYNOTES SHEET A0.2

KEYNOTES

SELECTED KEYNOTES - FOR FULL LIST SEE SHEET A0.2

5.00 LIFE SAFETY COMPLIANCE UPGRADES / ADA

5.06 TEMPORARILY REMOVE WOOD CABINETS, C.B. & T.B. FROM (E) WALL, REMOVE INT. FINISH PLYWOOD. INSTALL (N) 5/8" TYPE X G.W.B. AND PAINT TO PROVIDE (N) 1HR EXTERIOR WALL IN CONJUNCTION W/ (E) 7/8" PLASTER EXTERIOR FIN. (UL# U434). SEE DETAIL 1/A8.5

5.07 PROVIDE (N) ACCESSIBILITY SIGNAGE. SEE SIGNAGE SCHEDULE IN SPECS AND DETAIL 4/A9.1

5.08 PROVIDE (N) 3/4 HOUR OVERHEAD COILING FIRE DOOR W/ FUSIBLE LINKS @ BOTH INTERIOR AND EXTERIOR. DOOR TO EXTEND FROM WINDOW HEAD TO SILL. PROVIDE FOR MANUAL CRANK OPERATION.

5.09 PROVIDE (N) CONC. ACCESSIBLE RAMP. CONSTRUCTION OF RAMP TO BE IN COMPLIANCE W/ TITLE 24 REQUIREMENTS FOR SLOPE, CONC. SURFACES, RAILINGS, ETC. SEE SHT. A7.3 FOR RAMP DETAILS.

GROUP 4
ARCHITECTURE RESEARCH + PLANNING, INC
301 LINDEN AVENUE
SO. SAN FRANCISCO
CA 94080 USA
650·871·0709

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S.S.F. UNIFIED SCHOOL DISTRICT
398 B STREET
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CA. 94080
TEL (650) 877-8718
FAX (650) 871-0489

MARTIN ELEMENTARY SCHOOL MODERNIZATION PROJECT PHASE 2

35 SCHOOL STREET
SO. SANFRANCISCO
CA. 94080

LICENSED ARCHITECT JAMES P. DIERKES C-6860 REN 2-28-2021 STATE OF CALIFORNIA

JAMES P.	DIERKES
CA REG.	C6860
PROJECT :	98258-02
FILE:	582A0102

ISSUE	DATE
1 O.R.S. REVIEW	10-12-98
O.R.S. BACKCK.	03-15-99

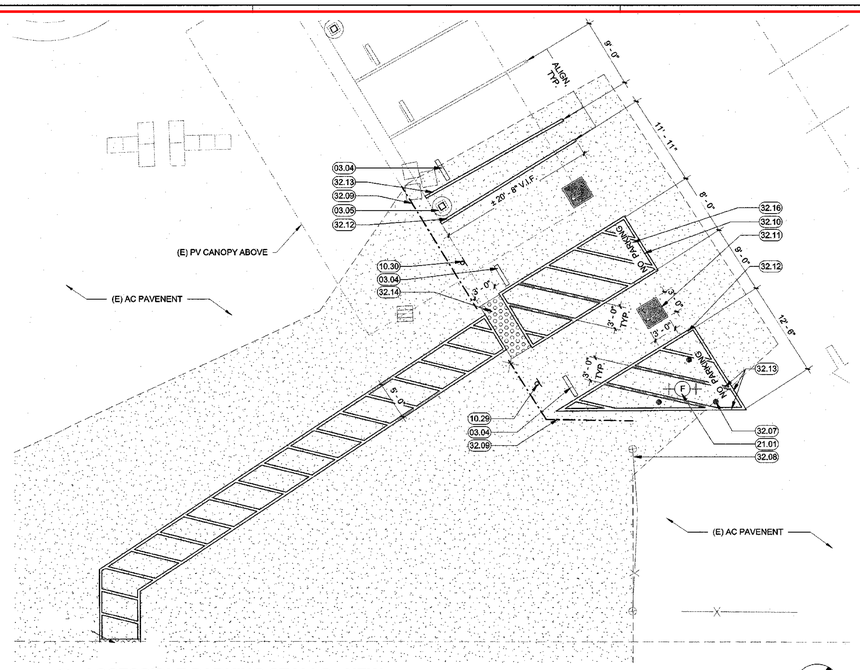
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APP.01 101083
AC WY FLS CD SS
DATE MAR 2 4 1999

SHEET TITLE AND NO.
COMBINED PLAN

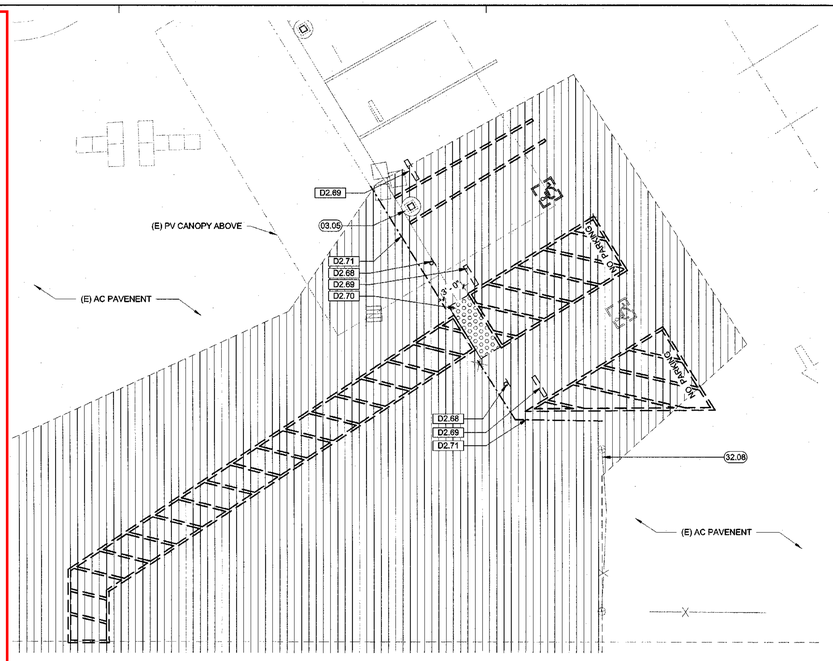
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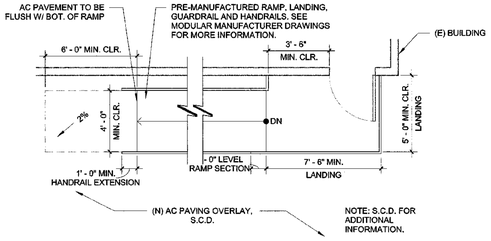
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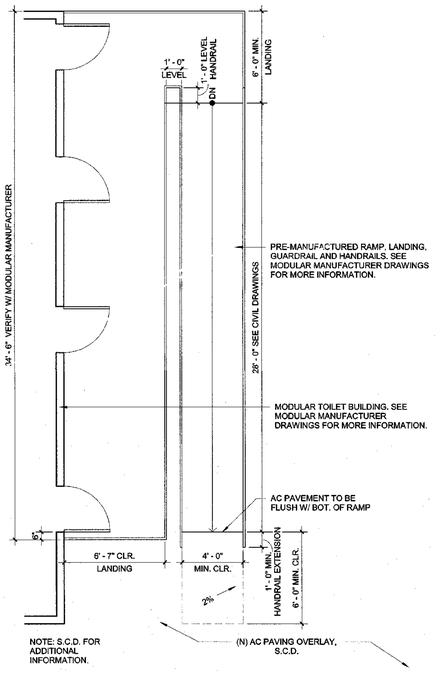
27 ACCESSIBLE PARKING STALLS - NEW
1/8" = 1'-0"



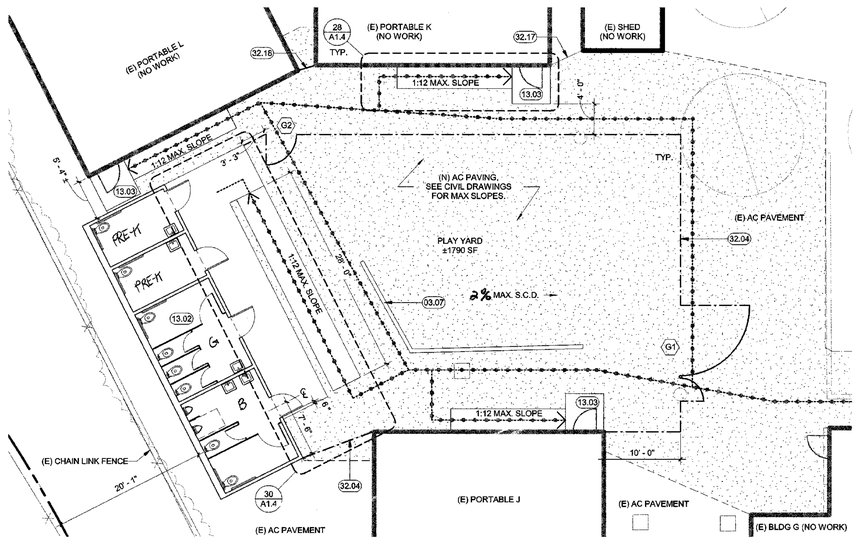
12 ACCESSIBLE PARKING STALLS - DEMO
1/8" = 1'-0"



28 TYP. MODULAR RAMP PLAN
1/4" = 1'-0"



30 TOILET MODULAR RAMP PLAN
1/4" = 1'-0"



19 MODULAR TOILET BLDG & NEW RAMPS
1/8" = 1'-0"

GENERAL NOTES

1. SEE A1.0 FOR ACCESSIBLE PATH OF TRAVEL NOTES AND CODE ANALYSIS.
2. ALL NOTES ARE TYPICAL U.O.N.
3. REFER TO MODULAR MANUFACTURER, CIVIL, ELECTRICAL, FIRE ALARM AND DRAWINGS FOR COMPLETE SCOPE OF WORK AND COORDINATION.
4. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS PRIOR TO START OF CONSTRUCTION.
5. PATCH AND REPAIR WALLS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
6. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK.
7. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
8. ALL ITEMS TO BE REMOVED MUST BE VERIFIED AND REVIEWED ON SITE BY THE CONTRACTOR.

KEYNOTES DEMO — REMODEL

DEMOLITION

D2.68 CAREFULLY REMOVE (E) ACCESSIBLE PARKING SIGN FOR REINSTALLATION.
D2.69 CAREFULLY REMOVE (E) WHEEL STOP FOR REINSTALLATION.
D2.70 REMOVE (E) TRUNCATED DOMES.
D2.71 CAREFULLY REMOVE (E) CHAINLINK FENCE FABRIC TO NEAREST POST OUTSIDE OF AC PAVEMENT DEMO AREA FOR REINSTALLATION. PROTECT DURING CONSTRUCTION. PROTECT (E) FENCE POSTS TO REMAIN.

REMODEL

03.04 REINSTALL (E) WHEEL STOP. SEE DETAIL 20/A1.6.
03.05 PROTECT (E) CONC. BASE AND STEEL POST FOR PV CANOPY ABOVE DURING CONSTRUCTION.
03.07 (N) 6" WIDE CONC. CURB, 4" MIN. HIGH FROM HIGHEST GRADE. S.C.D.
10.29 REINSTALL (E) VAN ACCESSIBLE SIGN. SEE DETAIL 18/A1.6.
10.30 REINSTALL (E) ACCESSIBLE SIGN. SEE DETAIL 18/A1.6.
13.02 (N) MODULAR RESTROOM BUILDING AND ACCESSIBLE RAMP. SEE MODULAR MANUFACTURER DWGS FOR MORE INFORMATION.
13.03 CAREFULLY REMOVE (E) RAMP AND REPLACE WITH (N) MODULAR RAMP. SEE MODULAR MANUFACTURER DRAWINGS FOR MORE INFORMATION.
21.01 (N) FIRE HYDRANT (PHASE 1, INCREMENT 1) PER DSA APPL. #01-116354. S.C.D.
32.04 CHAIN LINK FENCING, HEIGHT TO MATCH (E) ADJACENT.
32.07 (N) BOLLARDS (3 TOTAL) (PHASE 1, INCREMENT 1) PER DSA APPL. #01-116354. S.C.D.
32.08 PROTECT (E) VEHICULAR GATE TO REMAIN.
32.09 REINSTALL (E) CHAINLINK FENCE FABRIC AND APPURTENANCES TO (E) FENCE POSTS. SEE DETAIL 10/A1.6, SIM.
32.10 4" BLUE STRIPING BOARDER WITH 4" WHITE STRIPING @ 36" MAX. O.C.
32.11 36" X 36" INTERNATIONAL SYMBOL OF ACCESSIBILITY STALL SURFACE EMBLEM (EMBLEM SHALL BE WHITE OUTLINE OF WHEELCHAIR W/ OCCUPANT ON BLUE BACKGROUND). TYP. SEE DETAIL 16/A1.6
32.12 4" WIDE BLUE STRIPING.
32.13 4" WIDE WHITE STRIPING.
32.14 CAST-IN-PLACE TRUNCATED DOMES. SEE DETAIL 17/A1.6. S.C.D.
32.16 PAINT MIN. 12" HIGH WHITE LETTERS, THE WORDS 'NO PARKING', TYP.
32.17 CAREFULLY REMOVE (E) CHAINLINK FENCE FABRIC FOR REINSTALLATION AFTER REGRADING OF AC PAVEMENT. PROTECT (E) FENCE POSTS TO REMAIN IN PLACE.
32.18 CAREFULLY REMOVE (E) PLYWOOD PANELS FOR REINSTALLATION AFTER REGRADING OF AC PAVEMENT.

LEGEND

- EXISTING BUILDING (NO WORK)
- APPROXIMATE AREA OF (E) AC PAVEMENT TO BE REMOVED. SEE CIVIL DRAWINGS AND VERIFY IN FIELD.
- APPROXIMATE AREA OF RESURFACED AC PAVEMENT. SEE CIVIL DRAWINGS AND VERIFY IN FIELD.
- ACCESSIBLE PATH VERIFIED AND/OR UPGRADED
- ASSUMED PROPERTY LINE
- CHAIN LINK FENCE
- G1 GATE MARK, SEE SHEET A1.6.

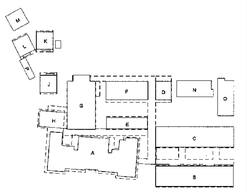
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No.	Revisions	By	Date	Appr.

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Architect/Engineer Of Record:

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01-31-2019

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Project
NEW MODULAR RESTROOM BUILDING AND RAMP

Sheet Title
ENLARGED SITE PLAN - PRE-K ENCLOSURE AND ACCESSIBLE PARKING

Client Project Number: Client Proj. #

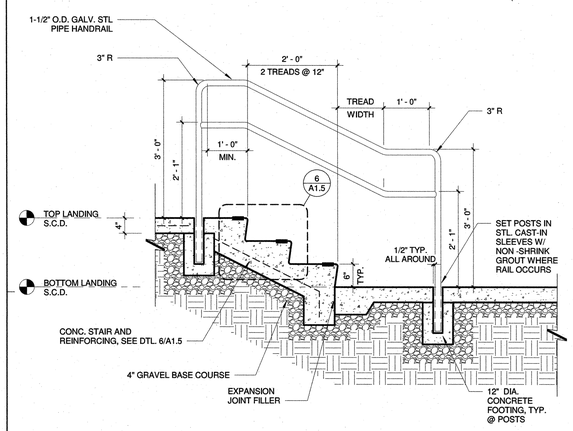
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Checked By: CD
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Revit Version: 2017

Sheet
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Sheet 9 of 74

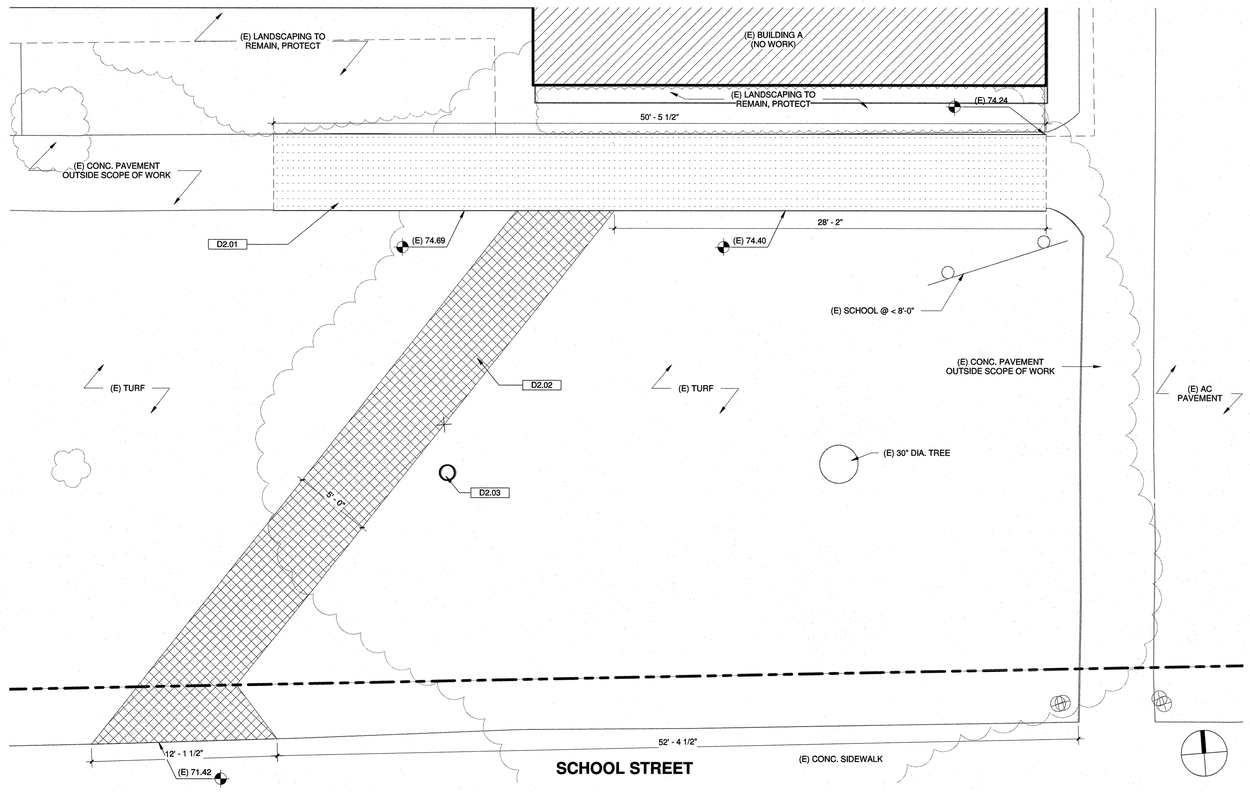
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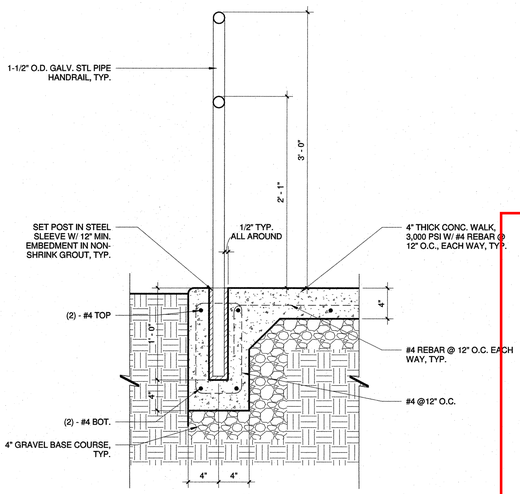
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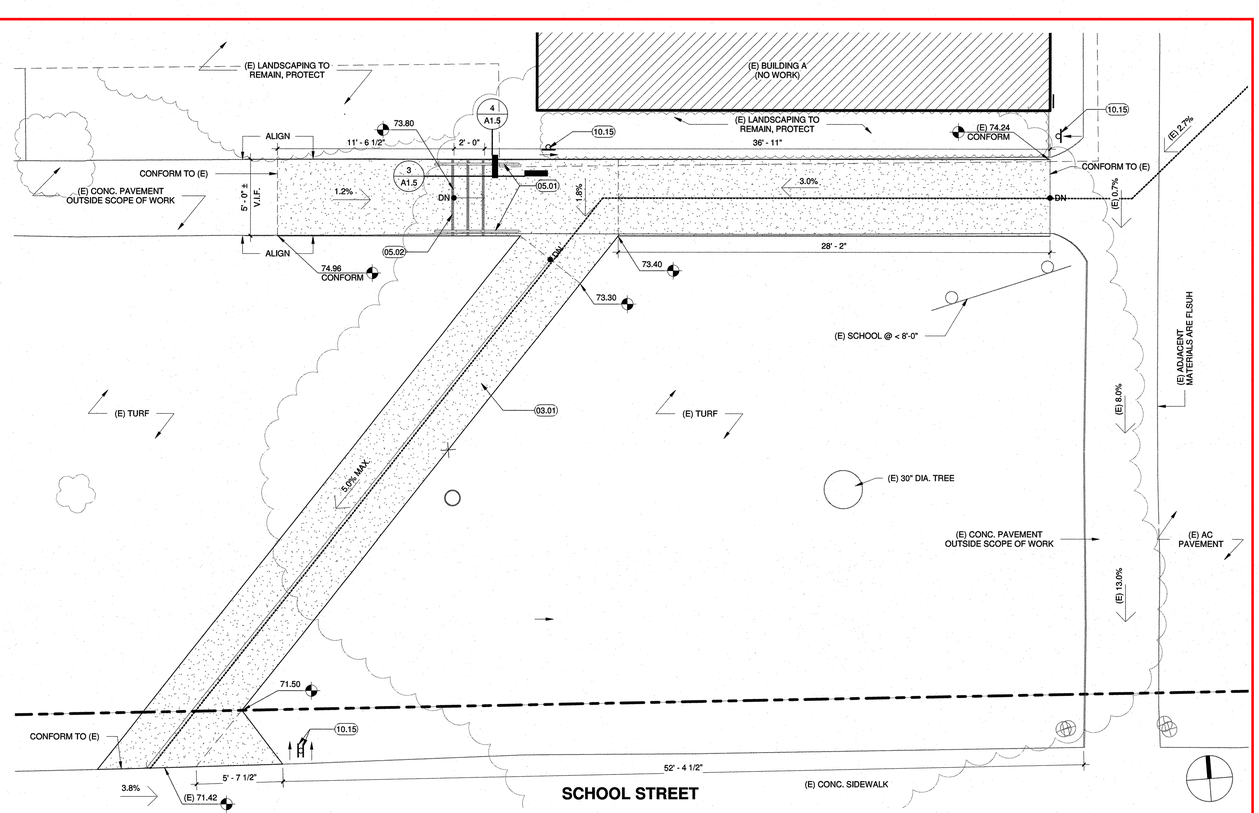
3 STAIR SECTION
3/4" = 1'-0"



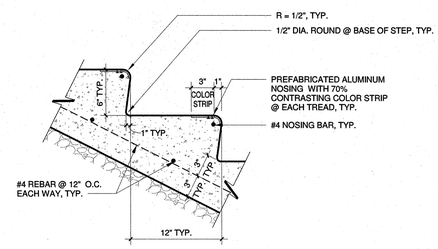
1 MAIN ACCESSIBLE ENTRY - DEMO
1/4" = 1'-0"



4 TYP. HANDRAIL CROSS SECTION DETAIL
1 1/2" = 1'-0"



2 MAIN ACCESSIBLE ENTRY - NEW
1/4" = 1'-0"



6 TYP. CONC. STEPS
1 1/2" = 1'-0"

GENERAL NOTES

KEYNOTES
DEMO → REMODEL

DEMOLITION

D2.01 DEMO (E) CONC. WALKWAY
D2.02 REMOVE (E) TURF IN PREPARATION FOR NEW CONC. WALK
D2.03 REMOVE (E) 12" DIA. TREE

REMODEL

03.01 CONCRETE WALK, S.C.D.
05.01 1-1/2" O.D. GALV. STL PIPE HANDRAIL
05.02 MTL. STAIR NOSING WITH CONTRASTING COLOR
10.15 (N) DIRECTIONAL SIGNAGE PER DETAIL 21/A9.1. DIRECTION AS SHOWN IN PLAN.

LEGEND

- EXISTING BUILDING
- (E) CONC. WALK TO BE REMOVED
- (E) TURF TO BE REMOVED IN PREPARATION FOR (N) CONC.WALK.
- (N) CONCRETE WALK AND STAIRS
- ACCESSIBLE ROUTE
- ASSUMED PROPERTY LINE

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Revisions

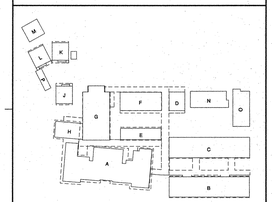
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ISSUE DATE: 17/03/03 BY: CD

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AC
DATE JUN 30 2017

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HY Architects Project number: Project Number

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Project
NEW CLASSROOM AND TOILET ROOM BUILDINGS
INCREMENT 1

Sheet Title
ENLARGED SITE PLANS AND DETAILS

Client Project Number: Client Proj. #

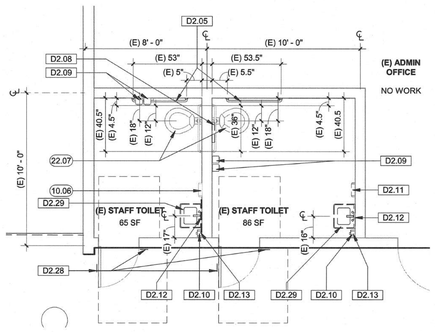
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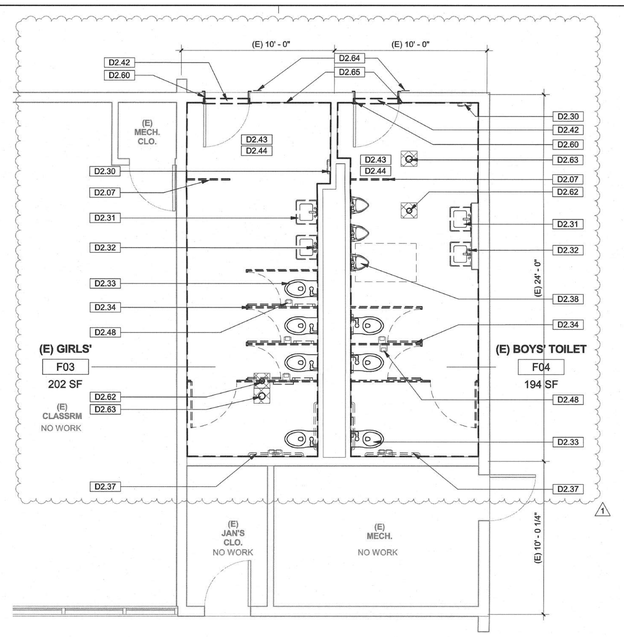
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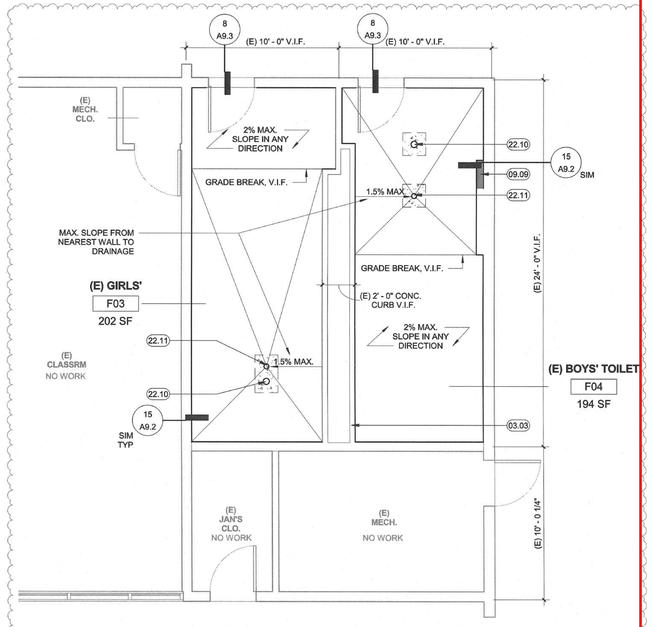
17 STAFF RESTROOMS DEMO FLOOR PLAN BLDG_E

1/4" = 1'-0"



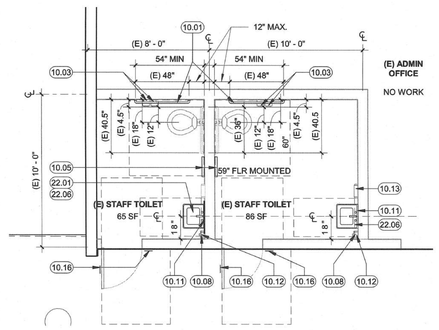
12 ENLARGED RESTROOM DEMO FLOOR PLAN_BLDG F

1/4" = 1'-0"



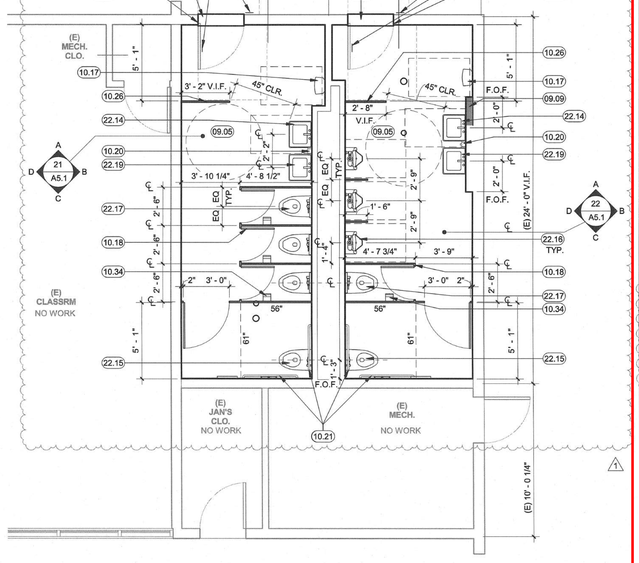
29 ENLARGED RESTROOM FLOOR DRAINAGE PLAN_BLDG F

1/4" = 1'-0"



19 STAFF RESTROOMS FLOOR PLAN BLDG_E

1/4" = 1'-0"



14 ENLARGED RESTROOM FLOOR PLAN_BLDG F

1/4" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N.
2. REFER TO MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND COORDINATION.
3. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS.
4. PATCH AND REPAIR WALLS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
5. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK.
6. DIMENSIONS NOTED AS "CLR." MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
7. PROVIDE SOLID BACKING AS REQUIRED IN STUD WALLS FOR ALL WALL MOUNTED ACCESSORIES, FIXTURES AND EQUIPMENT. SEE A5.1 & A9.2.
8. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL WORK AND COORDINATION.
9. REFER TO INTERIOR ELEVATIONS AND A9.1 FOR TOILET ACCESSORIES.
10. S.P.D FOR PLUMBING FIXTURE MOUNTING REQUIREMENTS; SEE ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS.
11. COORDINATE NEW CARRIERS AND PLUMBING WITH (E) CONC. CURB.

KEYNOTES

DEMO → REMODEL

DEMOLITION

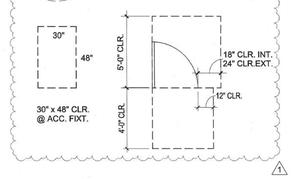
D2.05 CAREFULLY REMOVE (E) 48" GRAB BAR FOR REINSTALLATION.
D2.07 REMOVE (E) PRIVACY PARTITION.
D2.08 CAREFULLY REMOVE (E) TOILET SEAT COVER DISPENSERS FOR REINSTALLATION.
D2.09 CAREFULLY REMOVE (E) TOILET PAPER DISPENSER FOR REINSTALLATION.
D2.10 CAREFULLY REMOVE (E) SOAP DISPENSER FOR REINSTALLATION.
D2.11 CAREFULLY REMOVE (E) PAPER TOWEL DISPENSER FOR REINSTALLATION.
D2.12 CAREFULLY REMOVE (E) MIRROR AND SHELF FOR REINSTALLATION.
D2.13 CAREFULLY REMOVE (E) SOAP CUP HOLDER FOR REINSTALLATION.
D2.28 REMOVE (E) SIGNAGE.
D2.29 CAREFULLY REMOVE (E) LAVATORY FOR REINSTALLATION.
D2.30 REMOVE (E) PAPER TOWEL DISPENSER.
D2.31 REMOVE (E) LAVATORY, TYP. S.P.D.
D2.32 REMOVE (E) SOAP DISPENSER, TYP.
D2.33 REMOVE (E) WALL MOUNTED TOILET, TYP. S.P.D.
D2.34 REMOVE (E) TOILET PARTITION, TYP.
D2.37 REMOVE (E) GRAB BAR, TYP.
D2.38 REMOVE (E) WALL MOUNTED URINAL, TYP. S.P.D
D2.42 REMOVE (E) THRESHOLD.
D2.43 REMOVE (E) CERAMIC TILE WAINSCOT AND PLASTER & LATH FINISH. PROTECT (E) WOOD STUDS TO REMAIN.
D2.44 REMOVE (E) CERAMIC FLOOR TILES AND GROUT. PROTECT (E) CONC. SLAB TO REMAIN.
D2.48 REMOVE (E) TOILET ACCESSORIES, TYP. S.P.D.
D2.60 CAREFULLY REMOVE (E) DOOR FRAME. STORE AND PROTECT (E) FRP DOOR AND HARDWARE FOR REINSTALLATION.
D2.62 REMOVE (E) FLOOR DRAIN, DEMOLISH (E) CONC. SLAB AS REQUIRED TO INSTALL (N) FLOOR DRAIN. S.P.D.
D2.63 REMOVE (E) FLOOR CLEANOUT, DEMOLISH (E) CONC. SLAB AS REQUIRED TO INSTALL (N) FLOOR CLEANOUT. S.P.D.
D2.64 CAREFULLY REMOVE (E) SIGNAGE FOR REINSTALLATION.
D2.65 REMOVE (E) MIRROR, TYP.

REMODEL

03.03 (E) 6" CONC. CURB. CHIP AWAY AS REQUIRED FOR 1/2" CLR. AROUND NEW CARRIERS, SEE DETAIL 15/A9.2. AND S.P.D.
08.05 (N) HM DOOR FRAME. REINSTALL (E) FRP DOOR. SEE DETAIL 8/A9.3.
08.06 (N) METAL THRESHOLD. SEE DETAIL 8/A9.3.
09.05 (N) CERAMIC TILE FLOOR FINISH THROUGHOUT. SEE DETAIL 15/A9.2.
09.09 (N) GYP. BD. FURRING, MATCH (E) ADJACENT, PAINT. SEE DETAIL 15/A9.2, SIM.
10.01 REINSTALL (E) GRAB BAR. SEE 12/A9.1 FOR MOUNTING HEIGHTS. SEE DTL. 17/A9.
10.03 REINSTALL (E) TOILET PAPER DISPENSER. SEE 9/A9.1 & 12/A9.1 FOR MOUNTING LOCATION.
10.05 REINSTALL (E) TOILET SEAT COVER DISPENSER. SEE 12/A9.1 FOR MOUNTING HEIGHT.
10.06 (E) ACCESSIBLE PAPER TOWEL DISPENSER TO REMAIN. OPERABLE PART OF UNIT BELOW 40".
10.08 REINSTALL (E) SOAP DISPENSER. SEE 12/A9.1 FOR MOUNTING HEIGHT.
10.11 REINSTALL (E) MIRROR W/O SHELF. SEE 12/A9.1 FOR MOUNTING HEIGHT.
10.12 REINSTALL E) SOAP CUP HOLDER, 6" MIN CLR BELOW SOAP DISPENSER.
10.13 REINSTALL (E) PAPER TOWEL DISPENSER. SEE 12/A9.1 FOR MOUNTING HEIGHTS.
10.16 (N) RESTROOM SIGNAGE PER DETAILS 23-26/A9.1.
10.17 (N) ACCESSIBLE PAPER TOWEL DISPENSER. SEE 12/A9.1 FOR MOUNTING HEIGHT.
10.18 (N) SOLID PHENOLIC TOILET PARTITIONS, TYP. SEE DETAILS 20, 28 & 29/A9.1.
10.20 (N) SOAP DISPENSER. SEE 12/A9.1 FOR MOUNTING HEIGHT.
10.21 (N) GRAB BARS, SEE A9.1 FOR MOUNTING DETAILS.
10.26 (N) SOLID PHENOLIC PRIVACY PARTITION, TYP. SEE DETAILS 28 & 30/A9.1.
10.27 REINSTALL (E) RESTROOM SIGNAGE PER DETAILS 23 & 26/A9.1.
10.28 (N) RESTROOM SIGNAGE PER DETAILS 23 & 24/A9.1.
10.34 (N) TOILET PAPER DISPENSER, NVI D97013 OR EQUAL APPROVED, TYP. U.O.N.
22.01 PROVIDE INSULATION FOR EXPOSED DRAIN & H.W. PIPING UNDER SINK, TYP.
22.06 REINSTALL (E) LAVATORY CENTERED 18" FROM SIDE WALL, RIM LESS THAN 34" A.F.F. W/ KNEE CLEARANCE GREATER THAN 27".
22.07 (E) ACCESSIBLE TOILET TO REMAIN. TOP OF SEAT @ 19" A.F.F.
22.10 (N) FLOOR CLEANOUT, PATCH SLAB PER DETAIL 15/A9.2 & 12/A9.2, S.P.D.
22.11 (N) FLOOR DRAIN, PATCH SLAB PER DETAIL 15/A9.2 & 12/A9.2, S.P.D.
22.14 (N) ACCESSIBLE WALL MOUNTED LAVATORY W/ INSULATED PIPING. SEE A9.1 FOR MOUNTING AND CLEARANCE REQUIREMENTS.
22.15 (N) ACCESSIBLE WALL MOUNTED TOILET. SEE A9.1 FOR MOUNTING AND CLEARANCE REQUIREMENTS. S.P.D.
22.16 (N) ACCESSIBLE WALL MOUNTED URINAL. SEE A9.1 FOR MOUNTING AND CLEARANCE REQUIREMENTS.
22.17 (N) WALL MOUNTED TOILET, TYP. S.P.D.
22.19 (N) WALL MOUNTED LAVATORY, S.P.D.

LEGEND

REMOVE (E) FINISHES TO STUD
(E) PARTITION TO BE DEMOLISHED
(E) PARTITION TO REMAIN
(N) WALL FURRING - SEE 15/A9.01
(N) FINISHES O/ (E) STUDS
60" DIAMETER CLEAR



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AC A13 FLS 20 SS CO
APPL NO. 01-116354 DATE 8/2/17

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Revisions

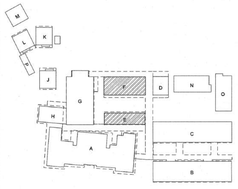
No.	Revisions	By	Date	Appr.
1	ADDENDUM 1		05/01/17	

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03/11/2019

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APPL. 01-116354
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DATE ____

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Architect/Engineer Of Record: ____

LICENSED ARCHITECT MARGOT A. HIBSER C-27362 01-31-2019 RENEWAL DATE STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
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510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
NEW MODULAR CLASSROOM BUILDINGS
INCREMENT 1

Sheet Title
ENLARGED RESTROOM FLOOR PLANS

Client Project Number: Client Proj. #

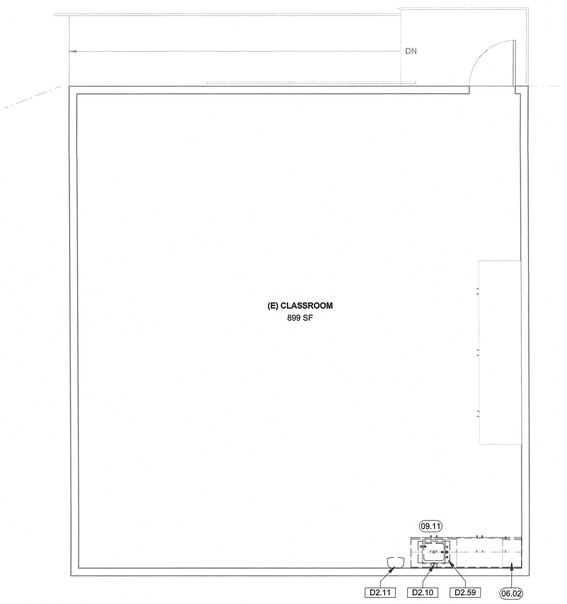
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Checked By: Checker
Issue Date: 05/01/2017
Revit Version: 2017

Sheet
REF_ A4.1

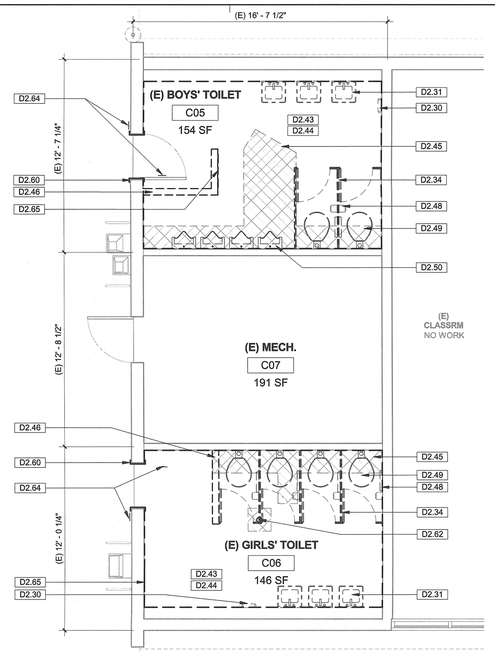
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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY



27 DEMO FLOOR PLAN_BLDG J
1/4" = 1'-0"



12 ENLARGED RESTROOM DEMO FLOOR PLAN_BLDG C
1/4" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TYPICAL U.O.N.
2. REFER TO MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND COORDINATION.
3. CONTRACTOR TO VERIFY (E) CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FROM PLANS.
4. PATCH AND REPAIR WALLS THAT ARE EXISTING TO REMAIN AND AFFECTED BY DEMOLITION.
5. CONTRACTOR TO VERIFY ACCURACY OF ALL EXISTING DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PERFORMING NEW WORK.
6. DIMENSIONS NOTED AS *CLR.* MEAN CLEAR DIMENSION FROM FACE OF FINISH TO FACE OF FINISH.
7. PROVIDE SOLID BACKING AS REQUIRED IN STUD WALLS FOR ALL WALL MOUNTED ACCESSORIES, FIXTURES AND EQUIPMENT. SEE A9.1 & A9.2.
8. REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL WORK AND COORDINATION.
9. REFER TO INTERIOR ELEVATIONS AND A9.1 FOR TOILET ACCESSORIES.
10. S.P.D FOR PLUMBING FIXTURE MOUNTING REQUIREMENTS; SEE ARCHITECTURAL DETAILS FOR MOUNTING HEIGHTS.
11. COORDINATE NEW CARRIERS AND PLUMBING WITH (E) CONC. CURB.

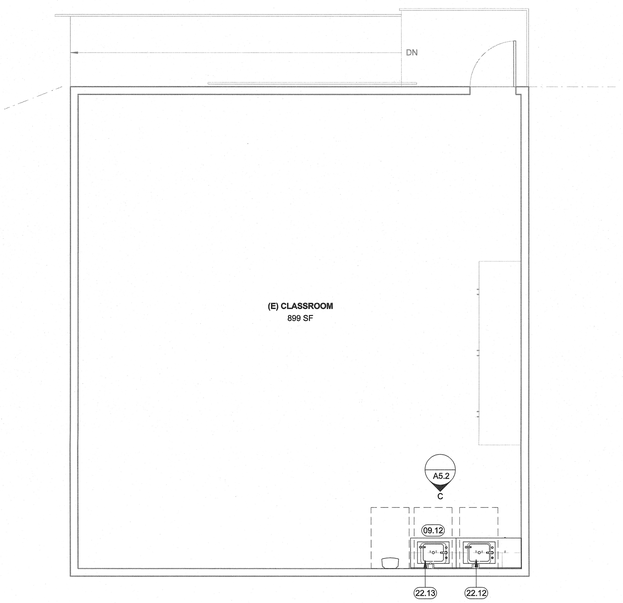
KEYNOTES (DEMO — REMODEL)

DEMOLITION

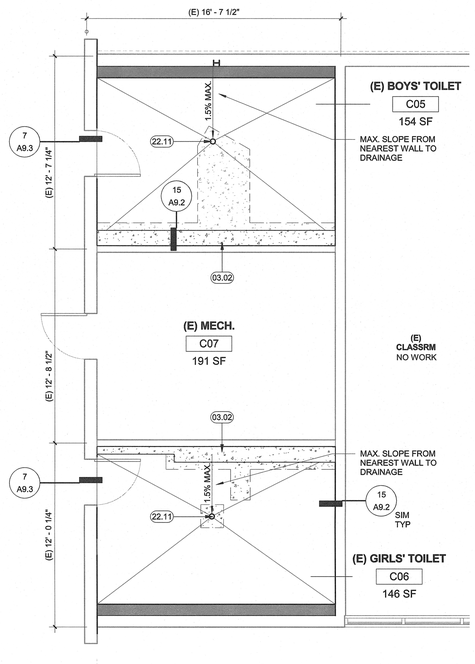
D2.10 CAREFULLY REMOVE (E) SOAP DISPENSER FOR REINSTALLATION.
D2.11 CAREFULLY REMOVE (E) PAPER TOWEL DISPENSER FOR REINSTALLATION.
D2.30 REMOVE (E) PAPER TOWEL DISPENSER.
D2.31 REMOVE (E) LAVATORY, TYP. S.P.D.
D2.34 REMOVE (E) TOILET PARTITION, TYP.
D2.43 REMOVE (E) CERAMIC TILE WAINSCOT AND PLASTER & LATH FINISH. PROTECT (E) WOOD STUDS TO REMAIN.
D2.44 REMOVE (E) CERAMIC FLOOR TILES AND GROUT. PROTECT (E) CONC. SLAB TO REMAIN.
D2.45 SAWCUT (E) CONC. SLAB FOR (N) PLUMBING. S.P.D.
D2.46 DEMOLISH (E) WOOD STUD PARTITION AND ASSOCIATED 6" CONC. CURB. PROTECT (E) CONC. SLAB TO REMAIN.
D2.48 REMOVE (E) TOILET ACCESSORIES, TYP. S.P.D.
D2.49 REMOVE (E) FLOOR MOUNTED TOILET, TYP. S.P.D
D2.50 REMOVE (E) FLOOR MOUNTED URINAL, TYP. S.P.D.
D2.59 REMOVE (E) SINK, COUNTER TOP AND BASE CABINETS.
D2.60 CAREFULLY REMOVE (E) DOOR FRAME. STORE AND PROTECT (E) FRP DOOR AND HARDWARE FOR REINSTALLATION.
D2.62 REMOVE (E) FLOOR DRAIN, DEMOLISH (E) CONC. SLAB AS REQUIRED TO INSTALL (N) FLOOR DRAIN. S.P.D.
D2.64 CAREFULLY REMOVE (E) SIGNAGE FOR REINSTALLATION.
D2.65 REMOVE (E) MIRROR, TYP.

REMODEL

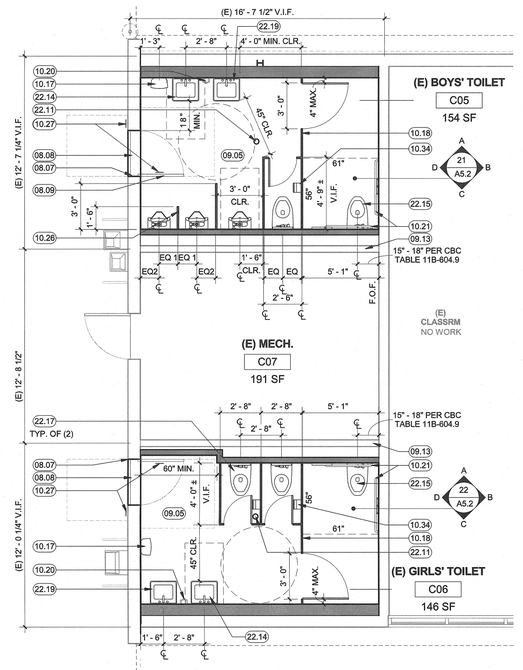
03.02 (N) 6" HIGH CONC. CURB. SEE DETAIL 15/A9.2.
06.02 (E) WALL HUNG CASEWORK TO REMAIN, TYP. PROTECT DURING CONSTRUCTION.
08.07 (N) HM DOOR FRAME. REINSTALL (E) FRP DOOR AND ASSOCIATED HARDWARE. SEE DETAIL 7/A9.3.
08.08 (N) METAL THRESHOLD. SEE DETAIL 7/A9.3.
08.09 PROVED (N) OVERHEAD DOOR CLOSER W/ 90 DEGREE RESTRICTOR.
09.05 (N) CERAMIC TILE FLOOR FINISH THROUGHOUT. SEE DETAIL 15/A9.2.
09.11 PROTECT (E) VCT FLOOR FINISH TO REMAIN.
09.12 PATCH (E) VCT FLOOR FINISH AS REQUIRED TO MATCH.
09.13 PATCH (E) LATH & PLASTER WALL AS REQUIRED, PAINT TO MATCH EXISTING.
10.17 (N) ACCESSIBLE PAPER TOWEL DISPENSER. SEE 12/A9.1 FOR MOUNTING HEIGHT.
10.18 (N) SOLID PHENOLIC TOILET PARTITIONS, TYP. SEE DETAILS 20, 28 & 29/A9.1.
10.20 (N) SOAP DISPENSER. SEE 12/A9.1 FOR MOUNTING HEIGHT.
10.21 (N) GRAB BARS, SEE A9.1 FOR MOUNTING DETAILS.
10.26 (N) SOLID PHENOLIC PRIVACY PARTITION, TYP. SEE DETAILS 28 & 30/A9.1.
10.27 REINSTALL (E) RESTROOM SIGNAGE PER DETAILS 23 & 26/A9.1.
10.34 (N) TOILET PAPER DISPENSER, NVI D67013 OR EQUAL APPROVED, TYP. U.O.N.
22.11 (N) FLOOR DRAIN, PATCH SLAB PER DETAIL 15/A9.2 & 12/A9.2, S.P.D.
22.12 (N) ACCESSIBLE ADULT HEIGHT SINK WITH BUBBLER.SEE A9.1 & A9.2 FOR MOUNTING AND CLEARANCE REQUIREMENTS.
22.13 (N) ACCESSIBLE PRE-SCHOOL HEIGHT SINK WITH BUBBLER. SEE A9.2 FOR MOUNTING AND CLEARANCE REQUIREMENTS.
22.14 (N) ACCESSIBLE WALL MOUNTED LAVATORY W/ INSULATED PIPING. SEE A9.1 FOR MOUNTING AND CLEARANCE REQUIREMENTS.
22.15 (N) ACCESSIBLE WALL MOUNTED TOILET. SEE A9.1 FOR MOUNTING AND CLEARANCE REQUIREMENTS. S.P.D.
22.17 (N) WALL MOUNTED TOILET, TYP. S.P.D.
22.19 (N) WALL MOUNTED LAVATORY, S.P.D.



30 FLOOR PLAN_BLDG J
1/4" = 1'-0"



20 ENLARGED RESTROOM FLOOR DRAIN PLAN_BLDG C
1/4" = 1'-0"



15 ENLARGED RESTROOM FLOOR PLAN_BLDG C
1/4" = 1'-0"

LEGEND

- REMOVE (E) FINISHES TO STUD
- (E) PARTITION TO BE DEMOLISHED
- (E) PARTITION TO REMAIN
- (N) WALL FURRING - SEE 15/A9.01
- (N) FINISHES O/ (E) STUDS
- 60" DIAMETER CLEAR
- 30" x 48" CLR. @ ACC. FIXT.
- 18" CLR. INT. 24" CLR.EXT.
- 12" CLR.
- 5'-0" CLR.
- 4'-0" CLR.

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AC MS FLS SS
APPL NO 01-116354 DATE 8/2/17

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Revisions

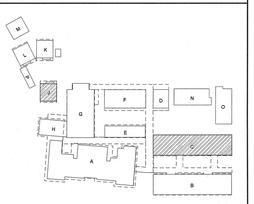
No.	Revisions	By	Date	Appr.
1	ADDENDUM 1		05/01/17	

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03/11/2019

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Architect/Engineer Of Record: ____

LICENSED ARCHITECT MARCUS A. HIBSER C-21302 01-31-2019 RENEWAL DATE STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY Architects Project number: 4539

Facility
MARTIN ELEMENTARY SCHOOL
35 SCHOOL STREET, SOUTH SAN FRANCISCO, CA 94080

Project
NEW MODULAR CLASSROOM BUILDINGS
INCREMENT 1

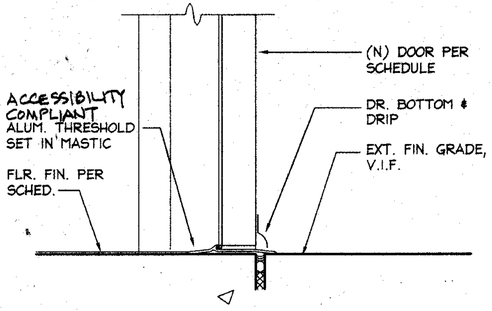
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BLDG J & BLDG C - ENLARGED RESTROOM PLANS

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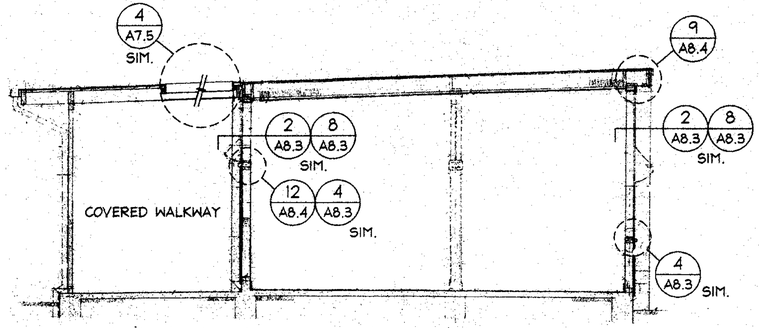
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Checked By:Checker
Issue Date: 05/01/2017
Revit Version: 2017

Sheet
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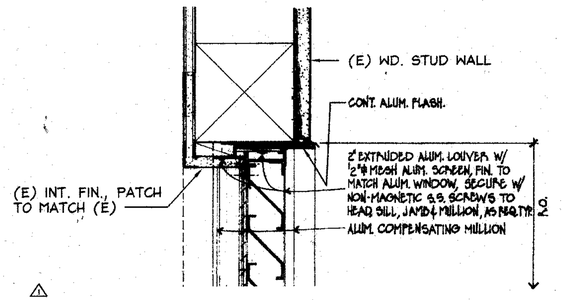


10 / A8.2 THRESHOLD DETAIL
SCALE: FULL SCALE

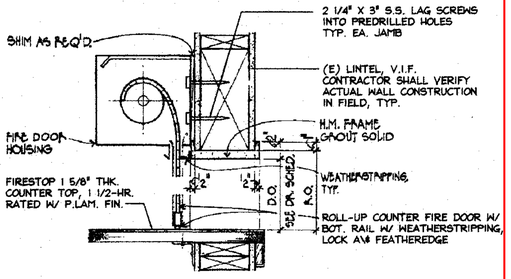


4 / A8.2 TYP. CROSS SECTION THRU UNIT E
SCALE: 1/4" = 1'-0"

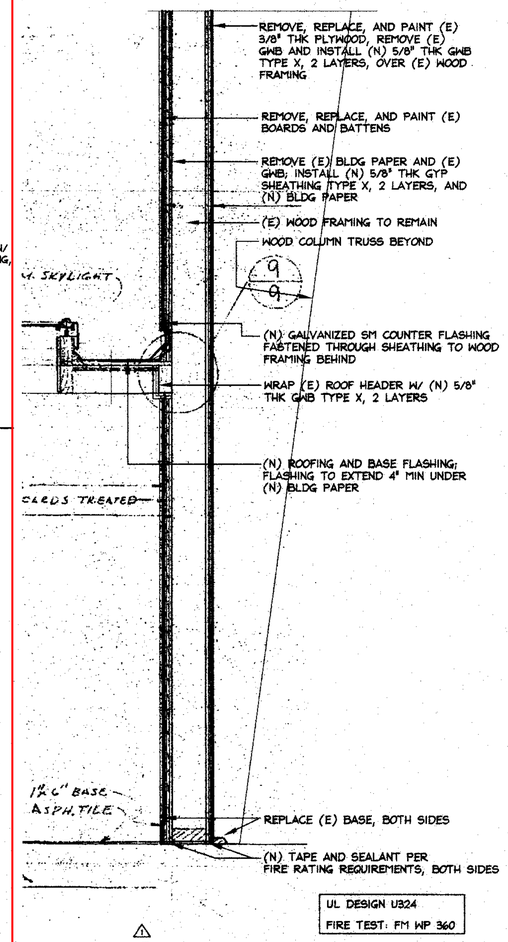
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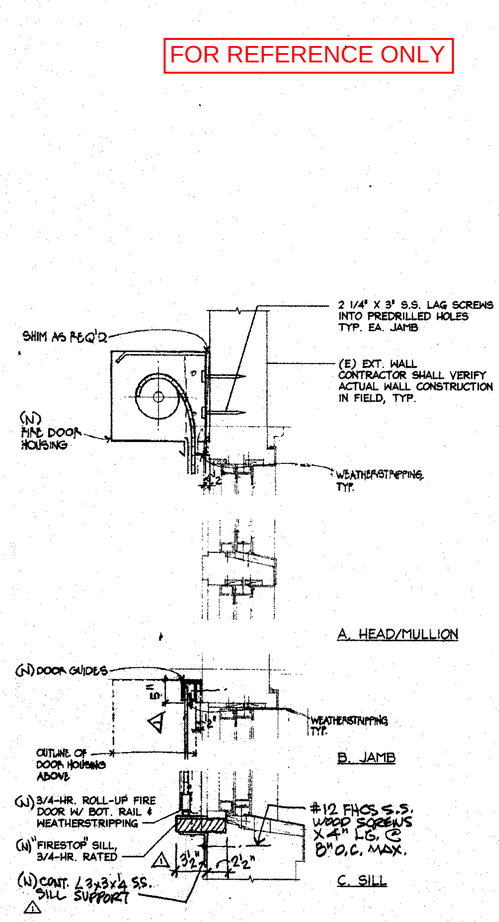
11 / A8.2 LOUVER HEAD/JAMB DETAIL
SCALE: 3"=1'-0"



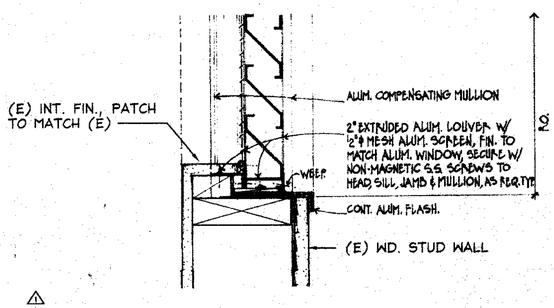
8 / A8.2 OVERHEAD COILING DOOR @ KITCHEN H01
SCALE: 1 1/2" = 1'-0"



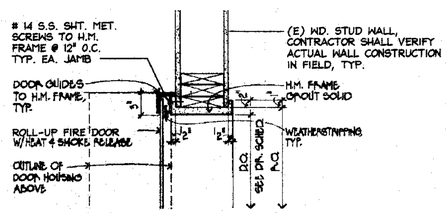
1 / A8.2 WALL SECTION: 2 HR. FR ASW
SCALE: 3/4" = 1'-0"



3 / A8.2 ROLL-UP FIRE DR. @ (E) WINDOW
SCALE: 1 1/2" = 1'-0" SEE ALSO 1/A8.3



12 / A8.2 LOUVER SILL DETAIL
SCALE: 3"=1'-0"



9 / A8.2 COUNTER ROLL-UP FIRE DR. & JAMB
SCALE: 1 1/2" = 1'-0"

GROUP 4
ARCHITECTURE RESEARCH + PLANNING, INC
301 LINDEN AVENUE
SO. SAN FRANCISCO
CA 94080 USA
650·871·0709

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03/11/2019

S.S.F. UNIFIED SCHOOL DISTRICT
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CA. 94080
TEL (650) 877-8718
FAX (650) 871-0489

MARTIN ELEMENTARY SCHOOL MODERNIZATION PROJECT PHASE 2

35 SCHOOL STREET
SO. SANFRANCISCO
CA. 94080

LICENSED ARCHITECT JAMES P. DIERKES C-6860 EXP. 2-28-99 STATE OF CALIFORNIA

JAMES P. DIERKES
CA REG. C6860
PROJECT : 98258-02
FILE: 582A0802.DWG

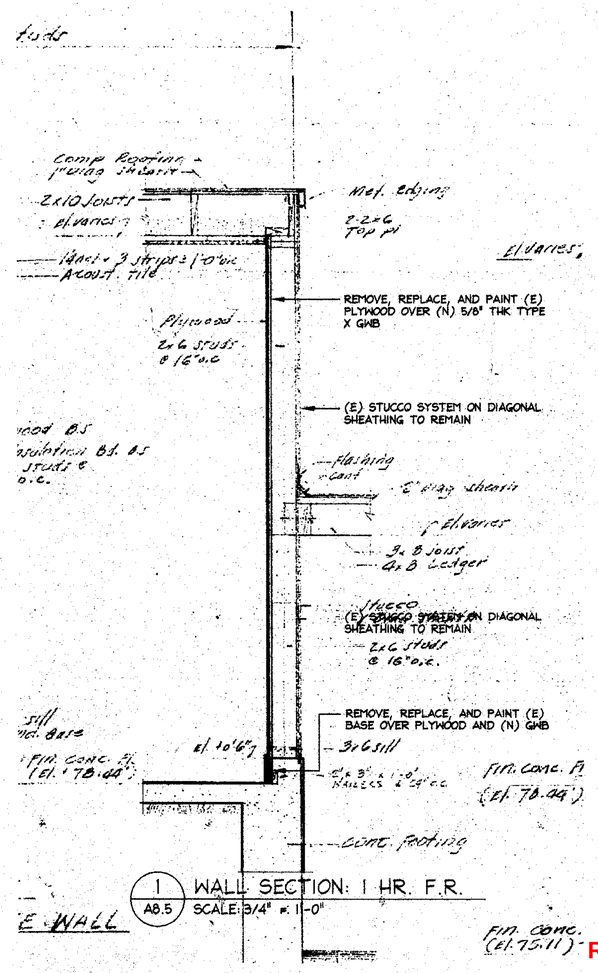
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⚠1 O.R.S. REVIEW	10-12-98
O.R.S. BACKCK.	03-15-99

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL 01 101033
ACC FLS
DATE MAR 0 4 1999

SHEET TITLE AND NO.
INTERIOR DETAILS

REF_ A8.2

FOR REFERENCE ONLY



1 A8.5 WALL SECTION: 1 HR. F.R.
SCALE: 3/4" = 1'-0"

GROUP 4
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RESEARCH +
PLANNING, INC
301 LINDEN AVENUE
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CA 94080 USA
650·871·0709

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MARTIN ELEMENTARY SCHOOL MODERNIZATION PROJECT PHASE 2

35 SCHOOL STREET
SO. SANFRANCISCO
CA. 94080

LICENSED ARCHITECT
JAMES P. DIERKES
C-6860
REN. 2-28-99
STATE OF CALIFORNIA

JAMES P. DIERKES
CA REG. C6860
PROJECT: 98258-02
FILE: 582A0805.DWG

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O.R.S. REVIEW	10-12-98
1 O.R.S. BACKCK.	03-15-99

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DATE MAR 24 1999

SHEET TITLE AND NO.
EXTERIOR DETAILS

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