MIRACOSTA COMMUNITY COLLEGE DISTRICT

BUILDING 900 MODERNIZATION

NOVEMBER 12, 2020

OWNER

MIRACOSTA CCD

1 BARNARD DRIVE
OCEANSIDE, CA 92056

PROGRAM MANAGER

KITCHELL

1 BARNARD DRIVE
BLDG T120
OCEANSIDE, CA 92056

T: 442-262-2388
CONTACT: DAVID DUNN

ARCHITECT

PBK ARCHITECTS, INC.

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SAN DIEGO, CA 92130

T: 619-695-0400
CONTACT: CHUCK FORTE

STRUCTURAL

SAIFUL BOUQUET

2020 CAMINO DEL RIO NORTH
SUITE 305
SAN DIEGO, CA 92108

T: 619-630-9199
CONTACT: ROBERT RANDALL

MEPT

P2S

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SUITE 230
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T: 619-618-2347
CONTACT: JAMES DEL MONACO

HVAC CONTROLS

SC ENGINEERING

17075 VIA CAMPO
SAN DIEGO, CA 92127

T: 858-946-0333
CONTACT: JOE KILGONE

SECURITY

EXANTE360 LLC

895 DOVE STREET
3RD FLOOR
NEWPORT BEACH, CA 92660

T: 949-485-1710
CONTACT: JAMES THORNBOROUGH

DSA FILE NO: 37-C2 A# 04-119576

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

3333 Manchester Ave, Cardiff, CA 92007

DSA SUBMITTAL

ARCHITECT

LICENSED ARCHITECT
Mark A. Eacrett
No. C-28195
REN. 5-31-2021
STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
20151

DATE: 11/12/2020
DRAWN BY: Author
CHECKED BY: Checker

REVISIONS

No.	Description	Date

DSA SUBMITTAL

COVER SHEET

G0.00

DRAWING CONVENTIONS

PROPERTY LINE

AREA DRAIN

EXISTING ELEVATION

FINISH GRADE ELEVATION

NORTH SYMBOL

COLUMN LINE

FLOOR LINE

MATCH LINE

SECTION CALLOUT SYMBOL

EXTERIOR ELEVATION SYMBOL

INTERIOR ELEVATION SYMBOL

DOOR DESIGNATION

WINDOW DESIGNATION

PARTITION TYPE

EXISTING PARTITION

NEW PARTITION

REVISION NUMBER

DETAIL ENLARGED

PLAN OR DETAIL ENLARGED

DETAIL SECTIONS AND VERTICAL SECTIONS

DIMENSIONS

NOTE: all dimensions to face of wall unless otherwise noted

SPOT ELEVATION

SPOT COORDINATE

MATCH LINE
SEE XX/X-XXX
SHEET NUMBER ON WHICH CONTINUATION IS FOUND

FENCING (WITH POSTS)

BREAK LINE

KEY NOTE

ROOM NAME AND NUMBER

FIRE HOSE CABINET (RECESSED AND SURFACE MOUNTED)

FIRE EXTINGUISHER CABINET (RECESSED AND SURFACE MOUNTED)

EQUIPMENT DESIGNATION

TOILET ACCESSORY SYMBOL

SHOWER HEAD

FLOOR SINK

FLOOR DRAIN

OVERFLOW DRAIN AND ROOF DRAIN

ROOF TOP UNIT
REFER TO MECHANICAL FOR TYPE

GRAPHIC SCALE

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS
(Application No. 04-119576 File No. 37-C2)

[X] The drawings or sheets listed on the cover or index sheet (see asterisk *)
[X] This drawing, page of specifications/calculations

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

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

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

I certify that: [X] The drawings or sheets listed on the cover or index sheet
[ ] This drawing or page

[X] is/are in general conformance and	[ ] is/are in general conformance and
[X] have been coordinated	[ ] have been coordinated
Signature: [signature] Date: NOV 5, 2020	Signature: _____ Date: _____
Architect or Engineer designated to be in general responsible charge	Architect or Engineer deligated responsibility for this portion of the work
Print Name: MARCO EACRETT	Print Name: _____
License Number: C-28195 Expiration Date: 5-31-2021	License Number: _____ Expiration Date: _____

CODES & STANDARDS

PARTIAL LIST OF APPLICABLE CODES

2019 California Administrative Code (CAC) ..... (Part 1, Title 24, CCR)
2019 California Building Code (CBC) ..... (Part 2, Title 24, CCR)
2019 California Electrical Code (CEC) ..... (Part 3, Title 24, CCR)
2019 California Mechanical Code (CMC) ..... (Part 4, Title 24, CCR)
2019 California Plumbing Code (CPC) ..... (Part 5, Title 24, CCR)
2019 California Energy Code (CEC) ..... (Part 6, Title 24, CCR)
2019 California Fire Code (CFC) ..... (Part 9, Title 24, CCR)
2019 California Exiting Building Code ..... (Part 10, Title 24, CCR)
2019 California Green Building Standards Code ..... (Part 11, Title 24, CCR)
2019 California Referenced Standards Code ..... (Part 12, Title 24, CCR)
Title 19 CCR, Public Safety, State Fire Marshall Regulations
2016 ASME A17.1 Safety Code For Elevators and Escalators

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 Automatic Fire Sprinkler System ..... (2019 Edition)
NFPA 72 National Fire Alarm & Signaling Code ..... (2019 Edition)
NFPA 80 Fire Doors & Other Opening Protectives ..... (2019 Edition)

- Reference Code Section for NFPA Standards - **2019 CBC (SFM) Chapter 35.** See Chapter 35 for State of California Admendments to NFPA Standards.

SHEET NUMBERING

SHEET NUMBER

A2.01

SEQUENCE (.01 - .99.....etc.)

SHEET DISCIPLINE TYPE
0 - SITE PLANS & DETAILS
1 - COMPOSITE FLOOR PLANS
2 - FLOOR PLANS
3 - ROOF
4 - ADA & ENLARGED PLANS
5 - PLAN DETAILS
6 - BUILDING SECTIONS, EXTERIOR/INTERIOR ELEVATIONS
7 - PARTITION TYPES & WALL SECTIONS
8 - CASEWORK ELEVATIONS AND DETAILS
9 - WINDOWS, DOORS, FRAME ELEVATIONS & DETAILS
10 - REFLECTED CEILING PLANS & DETAILS
11 - EQUIPMENT AND FURNITURE PLANS

DISCIPLINE
G - GENERAL (Cover, A0 Sheets)
C - CIVIL
D - DEMO
A - ARCHITECTURAL
S - STRUCTURAL
I - INTERIORS
M - MECHANICAL
P - PLUMBING
E - ELECTRICAL
T - TECHNOLOGY
FA - FIRE ALARM
FP - FIRE PROTECTION
SE - SECURITY

DRAWING INDEX

SHEET NUMBER	SHEET NAME
ARCHITECTURAL GENERAL	
G0.00	COVER SHEET
G0.01	SHEET INDEX, DRAWING CONVENTIONS, AND VICINITY MAP
G0.02	ACCESSIBILITY SITE PLAN
G0.03	CODE AND SIGNAGE PLAN
G0.04	ACCESSIBILITY DETAILS
CIVIL	
C1.01	TOPOGRAPHIC SURVEY
ARCHITECTURAL DEMOLITION	
D2.01	DEMOLITION FLOOR PLAN
D3.01	DEMOLITION ROOF PLAN
D6.01	DEMOLITION EXTERIOR ELEVATIONS
D6.02	DEMOLITION INTERIOR ELEVATIONS
D10.01	DEMOLITION REFLECTED CEILING PLAN
ARCHITECTURAL	
A1.01	PLOT PLAN
A1.02	SITE DETAILS
A2.01	EXISTING FLOOR PLANS
A2.02	FLOOR PLAN
A2.03	FINISH FLOOR PLAN
A3.01	ROOF PLAN
A3.02	ROOF DETAILS
A4.01	ENLARGED PLANS AND INTERIOR ELEVATIONS
A6.01	EXTERIOR ELEVATIONS
A6.02	BUILDING SECTIONS
A6.03	INTERIOR ELEVATIONS
A6.04	INTERIOR ELEVATIONS
A7.01	WALL TYPES AND DETAILS
A7.02	WALL DETAILS
A8.01	CASEWORK PLANS AND DETAILS
A8.02	CASEWORK DETAILS
A9.01	FINISH AND STOREFRONT SCHEDULE
A9.02	DOOR SCHEDULE
A9.03	DOOR AND WINDOW DETAILS
A10.01	REFLECTED CEILING PLAN
A10.02	CEILING DETAILS
STRUCTURAL	
S0.1	GENERAL NOTES
S0.2	GENERAL NOTES
S0.3	GENERAL NOTES
S0.4	GENERAL NOTES
S0.5	GENERAL NOTES
S0.10	TYPICAL CONCRETE DETAILS
S0.11	TYPICAL CONCRETE DETAILS
S0.12	TYPICAL WOOD DETAILS
S0.13	TYPICAL WOOD DETAILS
S0.14	TYPICAL WOOD DETAILS
S2.01	FOUNDATION PLAN
S2.02	ROOF FRAMING PLAN
S3.01	ELEVATIONS
MECHANICAL	
M001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
M002	SCHEDULES
M201	FLOOR PLANS
M301	ENLARGED MECHANICAL ROOM PLAN
M601	DETAILS
M602	DETAILS
M701	TITLE 24 COMPLIANCE FORMS
MD211	DEMOLITION FLOOR PLANS
HVAC CONTROLS	
IA001	INTEGRATED AUTOMATION LEGEND AND SYSTEM ARCHITECTURE
IA101	HVAC CONTROLS ZONING FLOOR PLAN
IA201	CONDENSER WATER SYSTEM CONTROLS DIAGRAM
IA202	INTEGRATED AUTOMATION SYSTEM DETAILS
ELECTRICAL	
E001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
E002	SCHEDULES
E003	PANEL SCHEDULES
E101	SITE PLAN
E201	LIGHTING PLANS
E211	POWER PLANS
E501	SINGLE LINE DIAGRAM
E601	DETAILS
E602	DETAILS
E603	DETAILS
E701	TITLE 24 COMPLIANCE FORMS
E702	TITLE 24 COMPLIANCE FORMS
ED201	DEMOLITION LIGHTING PLANS
ED211	DEMOLITION POWER PLANS
PLUMBING	
P001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
P002	SCHEDULES
P201	FLOOR PLANS
P301	ENLARGED PLANS
P601	DETAILS
PD201	DEMOLITION FLOOR PLANS
TECHNOLOGY	
T001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
TD201	DEMOLITION FLOOR PLAN
T201	FLOOR PLANS
TAV201	AUDIOVISUAL FLOOR PLANS
TAV401	ENLARGED AV PLANS
T601	DETAILS
T602	DETAILS
FIRE ALARM	
FA001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
FA002	DEMOLITION NOTES
FA101	SITE PLAN
FA201	FLOOR PLANS
FA501	RISER DIAGRAM
FA502	FIRE ALARM CALCULATIONS
FA601	DETAILS
FA602	DETAILS
FIRE PROTECTION	
FP001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
FP201	FLOOR PLANS
FP211	RCP PLANS
FP401	SECTION VIEW
FP601	DETAILS
FPD201	DEMOLITION FLOOR PLANS
SECURITY	
SE0.00	SECURITY GENERAL INFORMATION AND SYMBOL LEGEND
SE0.02	SITE SECURITY PLAN
SE2.01	SECURITY DEMOLITION PLAN
SE2.02	SECURITY PLAN - FIRST FLOOR
SE3.01	SECURITY PLAN - SECOND FLOOR
SE5.01	SECURITY DETAILS
SE5.02	SECURITY DETAILS
SE6.01	DEVICE SCHEDULE & SECURITY RISER DIAGRAM
SE10.01	SECURITY REFLECTED CEILING PLAN

Grand total: 107

ABBREVIATIONS

A	
ABV	above
ACOUS	acoustical
ACT	acoustical ceiling tile
AD	area drain
ADJ	adjustable
AFF	above finished floor
ALT	alternate
ALUM	aluminum
APPROX	approximate
ARCH	architect
B	
B.O.	bottom of
BALC	balcony
BD	board
BET	between
BLDG	building
BLKG	blocking
BLW	below
BM	beam
BOT	bottom
BRKT	bracket
BULKHD	bulkhead
BUR	built up roof
C	
C.G.	corner guard
CAB	cabinet
CALK	caulking
CEM	cement
CER	ceramic
CJ	control joint
CLG	ceiling
CLOS	closet
CLR	clear
CO	cased opening
COL	column
CONC	concrete
CONT	continous
CPT	carpet
CT	ceramic tile
CTR	center
D	
DBL	double
DET	detail
DIA	diameter
DIM	dimension
DN	down
DR	door
DS	down spout
DW	dishwasher
DWG	drawing
E	
E	east
EA	each
EIFS	exterior insulation & finish system
ELEC	electric(al)
ELEV	elevation
EMER	emergency
ENCL	enclosure
EOS	edge of slab
EQ	equal
EQUIP	equipment
ETR	existing to remain
EW	each way
EXP. JT.	expansion joint
EXST	existing
F	
F.O.	face of
FA	fire alarm
FAP	fire annunciator panel
FD	floor drain
FE	fire extinguisher
FEC	fire extinguisher cabinet
FG	finish group
FH	fire hydrant
FHC	fire hose cabinet
FIN	finish
FLR	floor
FLUOR	fluorescent
FT	foot or feet
FUR	furring
G	
GAL	gallon
GALV	galvanized
GB	grab bar
GC	general contractor
GL	glass
GND	ground
GWB	gypsum board
GYP	gypsum
H	
H.W.H.	hot water heater
HC	handicapped
HDWD	hardwood
HDWR	hardware
HM	hollow metal
HORIZ	horizontal
HR	hour
HT	height
I	
ID	inner diameter
INCAN	incandescent
INSUL	insulation
INT	interior
J	
JAN	janitor
JST	joist
JT	joint
L	
LAM	laminate
LAV	lavatory
LB(S)	pounds
LDG	landing
LT	light
M	
MAX	maximun
MECH	mechanical
MEMB	membrane
MFR	manufacturer
MIN	minimum
MISC	miscellaneous
MO	masonry opening
MTD	mounted
MTL	metal
N	
N	north
NIC	not in contract
NO	number
NOM	nominal
NTS	not to scale
O	
O.P.	overflow pipe
OA	overall
OC	on center
OD	outside diameter
OFF	office
OH	opposite hand
OPG	opening
OPP	opposite
P	
PART	partition
PERM	perimeter
PG	paint grade
PLAM	plastic laminate
PLAS	plaster
PLYWD	plywood
PR	pair
PT	paint
PTD	painted
R	
R	riser
RAD	radius
RCP	reflected ceiling plan
RD	roof drain
RE	refer
REF	refrigerator
REINF	reinforced
REQD	required
RESIL	resilient
RM	room
S	
RO	rough opening
RTU	roof top unit (mech)
S	south
SAFB	sound attenuation fiber batt
SC	scupper
SCHED	schedule
SEAL	sealant
SECT	section
SF	square foot
SHT	sheet
SIM	similar
SPEC	specification
SQ	square
SS	stainless steel
STD	standard
STL	steel
STOR	storage
STRUCT	structural
SUSP	suspended
SYM	symmetrical
T	
T	tread
T&G	tongue & groove
TEL	telephone
TER	terrazzo
THK	thick
THR	threshold
TO	top of
TYP	typical
U	
UC	undercut
UNFIN	unfinished
UNO	unless noted otherwise
UON	unless otherwise noted
UTIL	utility
V	
VCT	vinyl compostion tile
VERT	vertical
VIF	verify in field
VTR	vent termination pipe
VWC	vinyl wall covering
W	
W	west
W/	with
W/O	without
WC	watercloset
WIN	window
WP	waterproof
WS	wetstack
WSCT	wainscot
WT	weight

SCOPE OF WORK

The modernization the existing B900 Student Center. Approximately 3,200 sf will be reconfigured and modernized for a new Health Center, ASG and Student Gathering area. Associate spaces in the Health Center include waiting and reception areas, mental health offices, restroom and nurses and exam rooms. The ASG/Student Gathering will include conference rooms, offices, a food pantry and work room. Finish upgrades to the existing restrooms and a new lactation room have been added to the building. The entire building will include new light fixtures and access control. The scope of work will not include changes to either the building area or occupancy.

Mechanical, HVAC controls, plumbing, electrical, technology, security, fire alarm and fire sprinkler systems will be relocated or added based on the new floor plan. The unit cooler will be replaced for increased capacity and a new fire alarm head-in panel will be installed.

The building envelope will include repair of the clay tile roof where leaks occur, doors, signs, new paint, new exterior light fixtures, secuity system, access control and wireless upgrades.

ADDITIVE ALTERNATIVES

AA-1. EXTERIOR LIGHT POLES
ADD EXTERIOR LIGHT POLES AS SHOWN ON SHEET E101

AA-2 EXTERIOR LIGHT FIXTURES
ADD EXTERIOR LIGHT FIXTURES AS SHOWN ON SHEETS D6.01, D10.01, A10.01, ED201 AND E2.01

AA-3. DINING HALL LIGHT FIXTURES
ADD DINING HALL LIGHT FIXTURES AS SHOWN ON SHEETS D10.01 ED201 AND E201.

AA-4. SOLATUBES
ADD SOLATUBE SKYLIGHTS AS SHOWN ON SHEETS A3.01 AND A10.01

GREEN NOTES

5.106.10 STORM WATER DRAINAGE
NO REVISIONS TO SITE DRAINAGE

5.106.4.2 BICYCLE PARKING
NO ANTICIPATED VISITOR TRAFFIC

5.410.1 RECYCLING
RECEPTACLES PROVIDED TROUGHOUT BUILDING

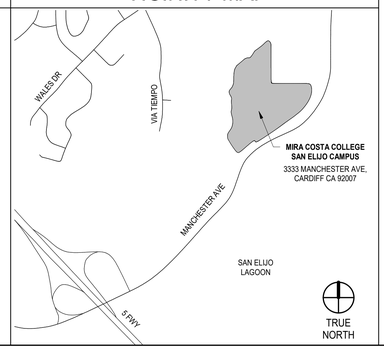
5.407.2.2.1 PRIMARY ENTRANCE PROTECTION
10' FOOT MIN DEPTH OVERHANGS AT ENTRY DOORS

5.505.1 INDOOR MOISTURE PROTECT
INT FLOORING: LVT
EXT PAVING: CONCRETE
WALLS: PAINTED GYPSUM WALL BOARD

5.507.4 ACOUSTICAL CONTROL
FLOORS: CARPET
CEILING: ACOUSTIC CEILING TILE

5.506.1 VENTILATION
SEE MECHANICAL PLANS

VICINITY MAP



DSA FILE NO. 37-C2 A# 04-119576

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION
3333 Manchester Ave, Cardiff, CA 92007

DSA SUBMITTAL

MiraCosta College

CONSULTANT

ENGINEER

ARCHITECT

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SHEET INDEX, DRAWING CONVENTIONS, AND VICINITY MAP

G0.01

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6 ACCESSIBILITY SITE PLAN
1" = 60'-0"

ACCESSIBILITY LEGEND

- ACCESSIBLE PATH OF TRAVEL IN SCOPE
- (E) ACCESSIBLE PATH OF TRAVEL PER DSA APPLICATION NUMBER 04-117908
- PROPERTY LINE
- (E) BUILDING B900 TO BE MODERNIZED
- (E) FIRE LANE
- AREA OF SAFE DISPERSAL
- (E) FIRE HYDRANT
- T-A (E) TOW AWAY PER DSA APPLICATION NUMBER 04-117329

PATH OF TRAVEL

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

SITE PARKING NOTES

1. THERE ARE NO ADDED OR REVISED PARKING SPACES ON THE SITE FOR THIS PROJECT.
2. ACCESSIBLE PARKING SPACES AND DROP OFF ZONES HAVE BEEN APPROVED UNDER DSA APPLICATION NUMBERS 04-107979, 04-117908 AND 04-117329.

SAFE DISPERSAL NOTES

TOTAL OCCUPANCY B900:	231 OCCUPANTS
DISPERSAL AREA FACTOR:	5 SF PER OCCUPANT
DISPERSAL AREA REQUIRED:	1,155 SF
DISPERSAL AREA PROVIDED:	1,225 SF

N PROJECT NORTH

N TRUE NORTH

DSA FILE NO. 37-C2 A# 04-119576

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION
3333 Manchester Ave, Cardiff, CA 92007

DSA SUBMITTAL

MiraCosta College

CONSULTANT

ENGINEER

ARCHITECT

LICENSED ARCHITECT
Mark A. Eacrett
No. C-28195
REN. 5-31-2021
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MIRACOSTA COMMUNITY COLLEGE DISTRICT

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No.	Description	Date

DSA SUBMITTAL

ACCESSIBILITY SITE PLAN

G0.02

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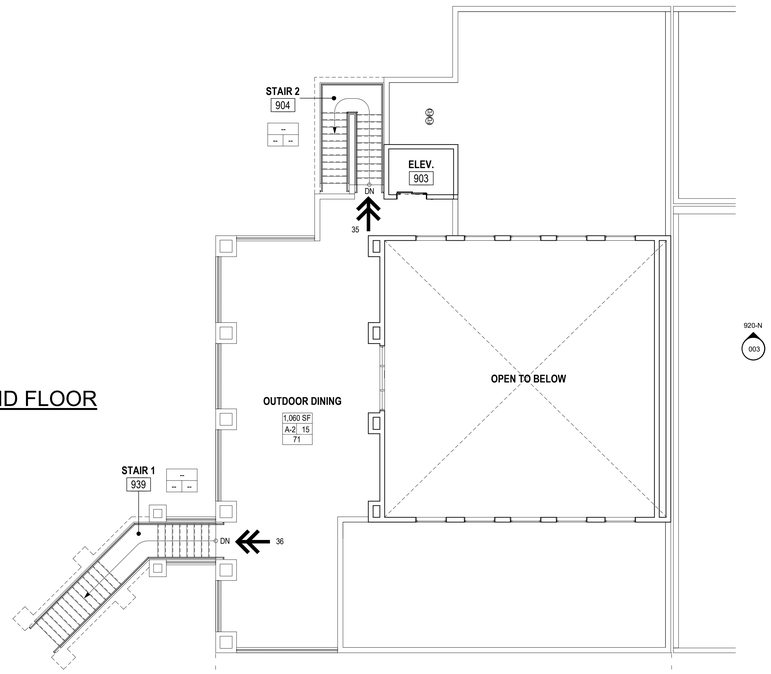
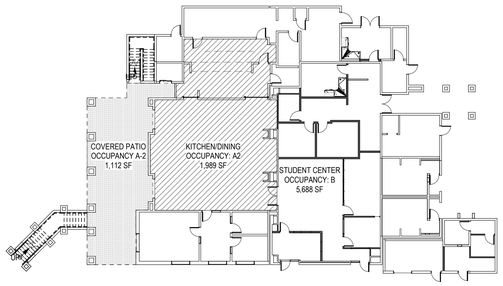
SECOND FLOOR





BUILDING AREA

ENCLOSED AREA: 7,677 SF
OCC B: 5,688 SF
OCC A-2: 1,989 SF

COVERED PATIO: 556 SF (1,112 SF / 2)

TOTAL BUILDING AREA: 8,233 SF

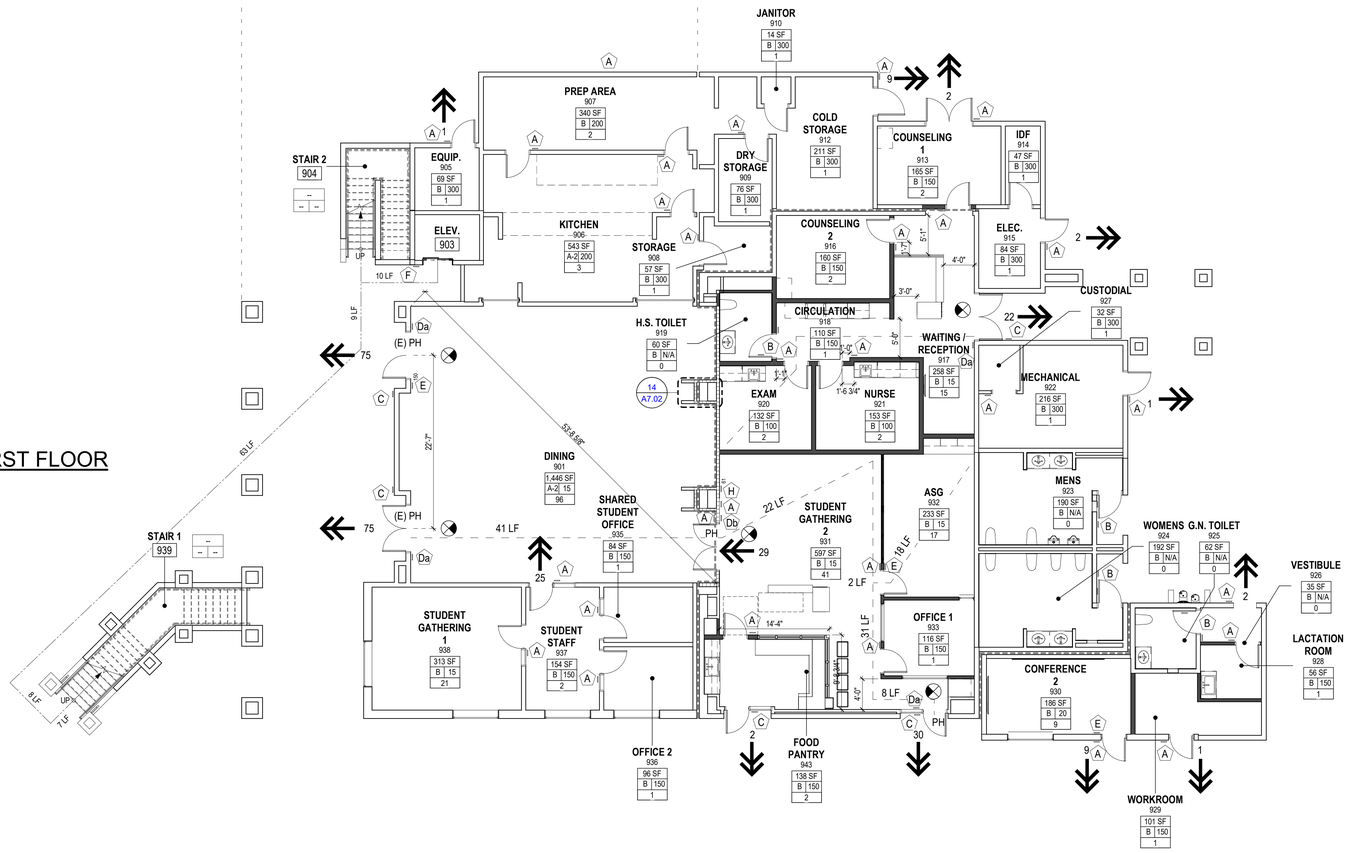
CODE ANALYSIS

BUILDING	OCCUPANCY CLASS	FIRE SPRINKLER	ALLOW NO. OF STORIES	NO. OF STORIES	ALLOW. BLDG. HT.	BUILDING HEIGHT	SQ. FOOT ALLOWANCE	ACTUAL SQ. FOOTAGE	CONSTRUCTION TYPE
STUDENT CENTER	B	YES (S1)	3	1	60'-0"	30'-0"	36,000	5,688	V-B
DINING KITCHEN	A2	YES (S1)	2	1	60'-0"	30'-0"	24,000	2,545	V-B

EXIT WIDTH

	WIDTH	ECF	OCCUPANCY LOAD	REQUIRED WIDTH
EXIT DOOR	36"	0.2"	75	6"

FIRST FLOOR



PROJECT NORTH

KEYNOTE LEGEND

NUMBER	DESCRIPTION

SIGNAGE NOTES

1. PROVIDE NUMBER OF ALS HEADSETS AS NOTED BELOW FOR EACH CLASSROOM. SEE ELECTRICAL FOR ADDITIONAL INFORMATION

ASSISTIVE LISTENING SYSTEM

A. ASSISTIVE LISTENING SYSTEMS SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTION (11B-219 AND SHALL COMPLY WITH CBC SECTION 11B-706.

B. THE MINIMUM NUMBER OF RECEIVERS TO BE PROVIDED SHALL BE EQUAL TO 4% OF THE TOTAL NUMBER OF SEATS BUT IN NO CASE LESS THAN TWO. 25% MINIMUM OF RECEIVERS PROVIDED BUT NO FEWER THAN TWO SHALL BE HEARING-AIDE COMPATIBLE IN ACCORDANCE WITH CBC SECTION 11B-706.3

C. IF THE SYSTEM PROVIDED IS LIMITED TO SPECIFIC AREAS OR SEATS THEN SUCH AREAS OR SEATS SHALL BE WITHIN 50 FOOT VIEWING DISTANCE OF, AND HAVE A COMPLETE VIEW OF THE STAGE OR PLAYING AREA PER CBC SECTION 11B-219.4

CODE PLAN LEGEND

- ILLUMINATED EXIT SIGN, SEE ELECTRICAL
- Name — ROOM NAME
- 101 — ROOM NUMBER
- A — ROOM AREA (SQUARE FEET)
- G OLF — OCCUPANCY LOAD FACTOR (2019 CBC)
- OL — OCCUPANCY LOAD
- OCCUPANCY GROUP
- OL — OCCUPANT LOAD
- RW 36 — EXIT WIDTH
- REQUIRED EXIT WIDTH
- 36 — EXIT DISCHARGE
- 25 LF — ACCESSIBLE PATH WITH LENGTH
- PH — INDICATES PANIC HARDWARE
- (E) 4" SEISMIC SEPARATION
- (E) ONE HOUR WALL ASSEMBLY
- (E) ACCESSIBLE PATH OF TRAVEL

SIGNAGE LEGEND

- A — ROOM ID SIGN — 21 / G0.04
- B — RESTROOM DOOR AND WALL SIGNS — 6 / G0.04
- C — ROOM AND BUILDING ENTRANCE ID SIGNS — 5 / G0.04
- Da — TACTILE EXIT SIGN — 16 / G0.04
- Db — TACTILE EXIT ROUTE SIGN — 16 / G0.04
- E — ASSISTIVE LISTENING SIGN — 14 / G0.04
- F — ELEVATOR SIGN — 26 / G0.04
- G — MAXIMUM OCCUPANCY SIGN — 15 / G0.04

EXIT ANALYSIS

ROOM INFO No	NAME	AREA	Occupancy Type	Occupant Load Factor	Occupancy
901	DINING	1,446 SF	A-2	15	96
903	ELEV.	51 SF	B	N/A	0
904	STAIR 2	116 SF	B	N/A	0
905	EQUIP.	69 SF	B	300	1
906	KITCHEN	543 SF	A-2	200	3
907	PREP AREA	340 SF	B	200	2
908	STORAGE	57 SF	B	300	1
909	DRY STORAGE	76 SF	B	300	1
910	JANITOR	14 SF	B	300	1
912	COLD STORAGE	211 SF	B	300	1
913	COUNSELING 1	165 SF	B	150	2
914	IDF	47 SF	B	300	1
915	ELEC.	84 SF	B	300	1
916	COUNSELING 2	160 SF	B	150	2
917	WAITING / RECEPTION	258 SF	B	15	15
918	CIRCULATION	110 SF	B	150	1
919	H.S. TOILET	60 SF	B	N/A	0
920	EXAM	132 SF	B	100	2
921	NURSE	153 SF	B	100	2
922	MECHANICAL	216 SF	B	300	1
923	MENS	190 SF	B	N/A	0
924	WOMENS	192 SF	B	N/A	0
925	G.N. TOILET	62 SF	B	N/A	0
926	VESTIBULE	35 SF	B	N/A	0
927	CUSTODIAL	32 SF	B	300	1
928	LACTATION ROOM	56 SF	B	150	1
929	WORKROOM	101 SF	B	150	1
930	CONFERENCE 2	186 SF	B	20	9
931	STUDENT GATHERING 2	597 SF	B	15	41
		5,758 SF			

231

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DSA FILE NO. 37-C2 A# 04-119576

PBK
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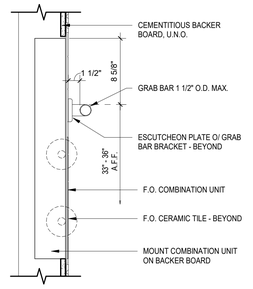
PROJECT NUMBER 20151
DATE: 11/12/2020
DRAWN BY: Author
CHECKED BY: Checker
REVISIONS

No.	Description	Date

DSA SUBMITTAL

CODE AND SIGNAGE PLAN

G0.03



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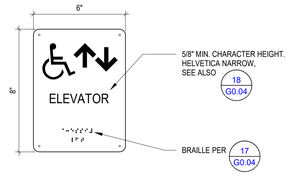
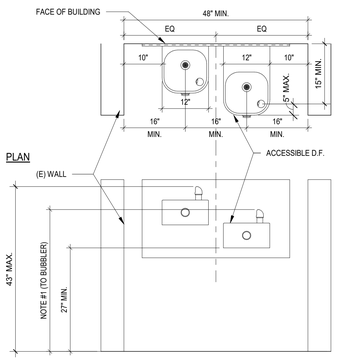




NOTE:
1. ACCESSIBLE MOUNTING HEIGHT AT 36" MAX TO TOP OF SPOUT OUTLET.

224700.01-S

13 DRINKING FOUNTAIN GUIDELINE
3/4" = 1'-0"

CHARACTER REQUIREMENTS:

A. CHARACTER REQUIREMENTS FOR ALL SIGNS PER 2019 CBC 11B-703:

1. ALL CHARACTERS SHALL BE UPPERCASE.
2. CHARACTERS SHALL BE SANS SERIF. CHARTERS SHALL NOT BE ITALLIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
3. CHARACTER 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 UPPERCASE LETTER "I".
4. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT.
5. TEXT SHALL BE IN HORIZONTAL FORMAT.
6. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH AND CONTRAST WITH ONE ANOTHER

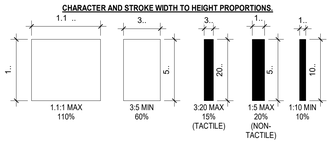
B. RAISED CHARACTER REQUIREMENTS FOR SIGNS WITH BRAILLE PER 2019 CBC 11B-703.2:

1. RAISED CHARACTERS SHALL COMPLY WITH REQUIREMENTS NOTED IN PARAGRAPH 'A' ABOVE
2. RAISED CHARACTERS SHALL BE 1/32 INCH MIN ABOVE BACKGROUND.
3. RAISED CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER 'I'.
4. STROKE THICKNESS OF THE UPPERCASE LETTER 'I' SHALL BE 10 PERCENT MINIMUM AND 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
5. CHARACTER SPACING BETWEEN INDIVIDUAL RAISED LETTERS SHALL BE 1/8 INCH MINIMUM AND FOUR (4) TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM.
6. ALL EDGES ON GEOMETRIC SYMBOLS SHALL BE EASED OR ROUNDED AT 1/16 INCH MINIMUM. VERTICES SHALL BE RADIUSED BETWEEN 1/8 INCH MINIMUM AND 1/4 INCH MAXIMUM.

C. VISUAL CHARACTER REQUIREMENTS FOR SIGNS WITHOUT BRAILLE PER 2019 CBC 11B-703.5:

1. VISUAL CHARACTERS SHALL COMPLY WITH REQUIREMENTS NOTED IN PARAGRAPH 'A' ABOVE
2. MINIMUM CHARACTER HEIGHT SHALL CONFORM TO 2016 CBC TABLE 11B-703.5.5 BUT IN NO CASE SHALL BE LESS THAN 5/8 INCH.
3. HEIGHT FROM FINISH FLOOR SHALL BE NO LESS THAN 40 INCHES.
4. STROKE THICKNESS OF THE UPPERCASE LETTER 'I' SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
5. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT.

CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS.



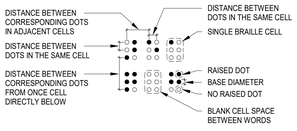
101400.10-S CBC 2016 - Rev 10/17

18 CHARACTER REQ.S FOR SIGNAGE
1" = 1'-0"

TABLE 11B-703.3.1
BRAILLE DIMENSIONS

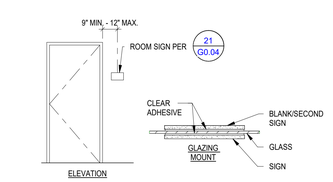
MEASUREMENT RANGE	MINIMUM IN INCHES - MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059 (1.5 MM) TO 0.063 (1.6 MM)
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL	0.100 (2.5 MM)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS	0.300 (7.6 MM)
DOT HEIGHT	0.025 (0.6 MM) TO 0.037 (0.9 MM)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW	0.395 (10 MM) TO 0.400 (10.2 MM)

FIGURE 11B-703.3.1
BRAILLE MEASUREMENT

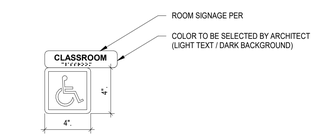


101400.09-S

17 BRAILLE STANDARDS FOR SIGNAGE
6" = 1'-0"



B ROOM SIGN



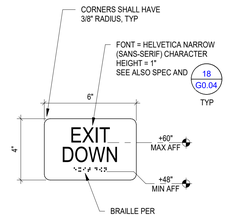
A BUILDING ENTRY ROOM SIGN

NOTES:

1. FOR CHARACTER TYPE & BRAILLE, SEE DETAILS 18 G0.04
2. SIGN MATERIAL SHALL BE PAINTED, 1/8" THICK ES PLASTIC USING GRAPHIC PROCESS SAND-CARVED W/ 3/32" RAISED GRAPHIC AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ COUNTERSUNK. VANDAL RESISTANT #8 FASTENERS. MOUNT ON GLAZING WITH CLEAR SILICONE ADHESIVE AND A SECOND SIGN OR BLANK ALIGNED ON THE OTHER SIDE OF GLAZING TO MASK THE ADHESIVE.
3. PROVIDE ONE SIGN WHERE INDICATED ON PLANS OR SCHEDULE.

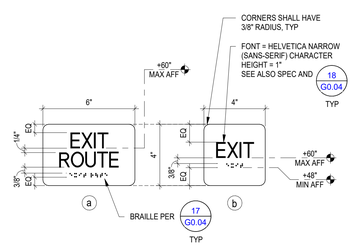
101400.08-S

16 TACTILE EXIT SIGNS
3" = 1'-0"



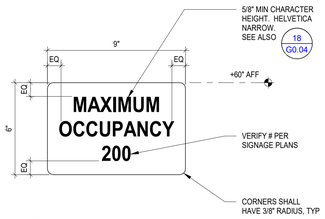
101400.11-S

22 EXIT DOWN SIGN
3" = 1'-0"



101400.12-S

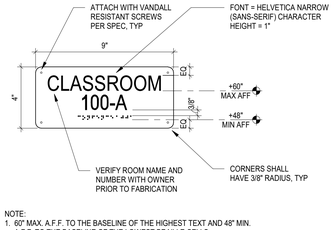
21 TYP. ROOM ID SIGN
3" = 1'-0"



NOTES:
1. SIGN MATERIAL SHALL BE 1/4" THICK PLASTIC
2. MOUNT W/ VANDAL RESISTANT FASTENERS

101400.14-S

15 OCCUPANT LOAD SIGN
3" = 1'-0"



NOTE:
1. 60" MAX. A.F.F. TO THE BASELINE OF THE HIGHEST TEXT AND 48" MIN. A.F.F. TO THE BASELINE OF THE LOWEST BRAILLE CELLS.
2. FOR BRAILLE AND CHARACTER TYPE, SEE DETAILS **17/G0.04** AND **18/G0.04**
3. PROVIDE 18"x 18" CLEAR FLOOR AREA UNDER SIGN PER 11B-703.4.2

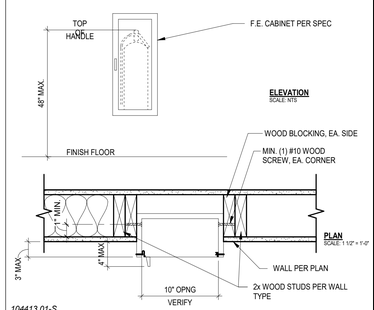
101400.11-S

20 ASSISTIVE LISTENING SIGNAGE
3" = 1'-0"

NOTES:
1. SIGN MATERIAL SHALL BE 1/4" THICK PLASTIC W/ 1/32" RAISED LETTERS
2. MOUNT W/ VANDAL RESISTANT FASTENERS
3. REFER TO SIGNAGE PLAN G0.03 FOR LOCATIONS

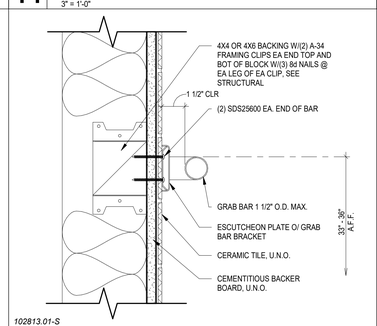
101400.13-S

19 DRINKING FOUNTAIN GUIDELINE
3/4" = 1'-0"



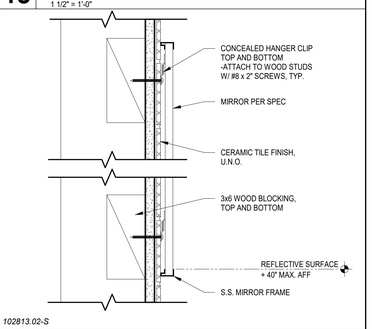
104413.01-S

14 MARKERBOARD SECTION
3" = 1'-0"



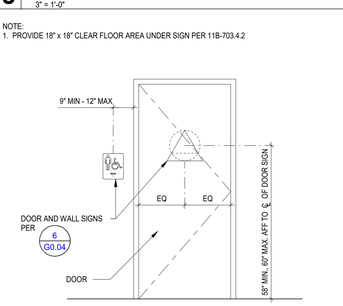
102813.01-S

8 GRAB BAR MOUNT
3" = 1'-0"



102813.02-S

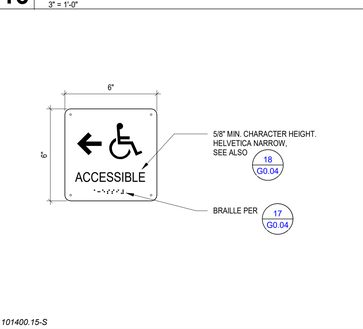
7 TOILET ROOM MIRROR MOUNTING
3" = 1'-0"



NOTE:
1. PROVIDE 18" x 18" CLEAR FLOOR AREA UNDER SIGN PER 11B-703.4.2

101400.04-S

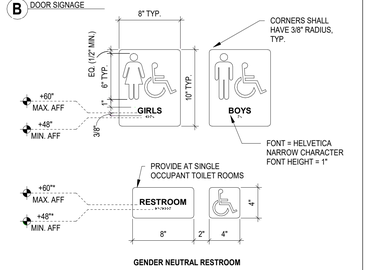
9 RESTROOM SIGNAGE
1/2" = 1'-0"



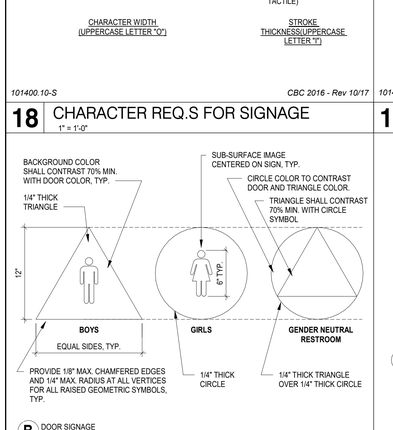
101400.15-S

10 ACCESSIBLE ROUTE SIGN
3" = 1'-0"

B DOOR SIGNAGE



GENDER NEUTRAL RESTROOM



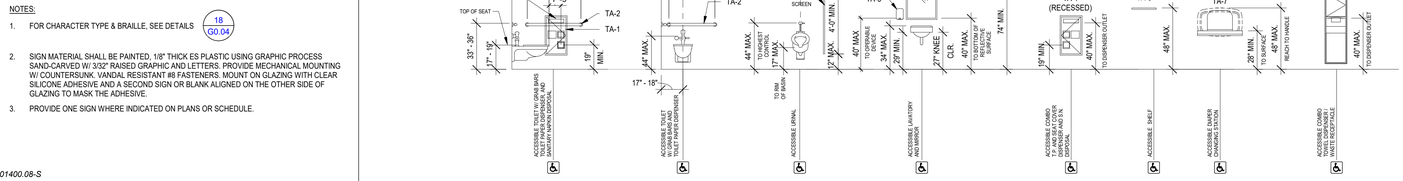
A WALL SIGNAGE

- 60" MAX A.F.F. TO THE BASE LINE OF THE HIGHEST TEXT & 48" MIN. A.F.F. TO THE BASE LINE OF THE LOWEST BRAILLE CELLS

NOTE:
FOR CHARACTER TYPE AND BRAILLE REQUIREMENTS SEE DETAILS 18 G0.04

101400.05-S

6 RESTROOM DOOR & WALL SIGNS
1 1/2" = 1'-0"



4 TYPICAL TOILET FIXTURE AND ACCESSORY HEIGHTS
1/4" = 1'-0"

LABEL	DESCRIPTION	REMARKS
TA-1	COMBO T. P. AND SEAT COVER DISPENSER AND S.N. DISPOSAL	
TA-2	GRAB BARS AT TYPICAL ACCESSIBLE TOILET STALLS	
TA-3	SHELF	
TA-4	CLOTHES HOOK	NOTE 6
TA-5	SOAP DISPENSER	
TA-6	MIRROR (24"X36" U.N.O.)	NOTE 5
TA-7	DIAPER CHANGING STATION	
TA-8	COMBO TOWEL DISPENSER/WASTE RECEPTACLE	
TA-9	SHELF, MOP & BROOM HOLDER	

NOTES:

1. ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE
2. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
3. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ADA.
4. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE.VERIFY ALL PATTERNS WITH ARCHITECT
5. ALIGN MIRROR ON CENTER OF LAVATORY U.N.O.
6. ONE HOOK INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER, MOUNTED AT 48" MAX AFF

1 TOILET ACCESSORY TYPES
12" = 1'-0"

DSA FILE NO. 37-C2 A# 04-119576

PBK

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MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER	
	20151
DATE:	11/12/2020
DRAWN BY:	Author
CHECKED BY:	Checker

REVISIONS

No.	Description	Date

DSA SUBMITTAL

ACCESSIBILITY DETAILS

G0.04

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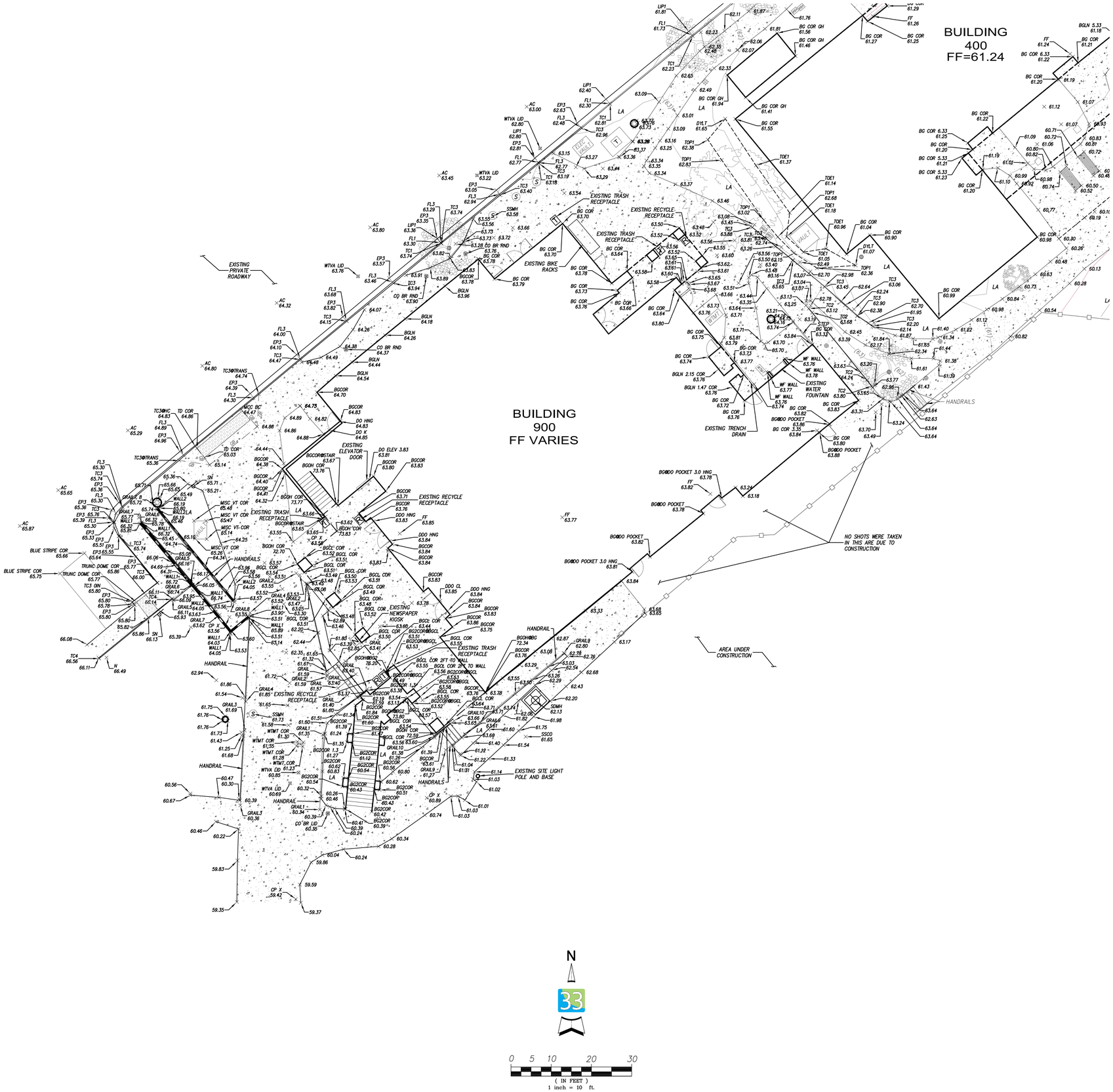

LEGEND*

* ALL ITEMS EXISTING

- BUILDING LIMITS
- CONCRETE PAVEMENT
- ASPHALT CONCRETE PAVEMENT
- DETECTABLE WARNINGS
- CONTOUR (63)
- CURB
- CURB AND GUTTER
- PARKING STRIPING
- RETAINING WALL
- PEDESTRIAN HANDRAIL
- GRADE BREAK
- TREES
- LIGHT AND POST
- LANDSCAPE LIGHT FIXTURE
- PULLBOX (ECPB)
- SIGN
- STORM DRAIN INLET / CLEANOUT
- AREA DRAIN INLET
- 4" OR 6" DRAIN CLEANOUT
- SANITARY SEWER CLEANOUT / MANHOLE (S)
- FIRE HYDRANT
- WATER VALVE
- WALL MOUNTED POST–INDICATOR VALVE
- FIRE DEPARTMENT CONNECTION
- WATER METER BOX (WTMT)
- IRRIGATION BOX (IRBX)
- GAS VALVE
- BENCH
- TRANSFORMER (T)
- INTERNATIONAL SYMBOL OF ACCESSIBILITY (PAVEMENT STRIPING)

ABBREVIATIONS

AC	ASPHALT CONCRETE	ECPB	ELETRICAL PULLBOX
BG	BUILDING	EP	EDGE OF PAVEMENT
BH	BENCH	FF	FINISH FLOOR
BW	BACK OF WALK	FL	FLOWLINE
COR	CORNER	GH	GREEN HOUSE
CC	CORNER OF CONCRETE	GV	GAS VALVE
CCOL	CORNER OF COLUMN	RND QLITE	PLANTER GROUND LIGHT
CE	CONCRETE EDGE	RW MSE	TOP FACE OF SHORT WALL
CO	CLEANOUT	SD SLOT	SLOT DRAIN
CONC	CONCRETE	SN	SIGN POST
CS	CONCRETE SURFACE	SSMH	SANITARY SEWER MANHOLE
DDO	DOUBLE DOOR	SV	SPOT VALVE
DI	DROP INLET	SWK	SIDEWALK
DO HNG	DOOR AT HINGE SIDE	TC	TOP OF CURB
DO K	DOOR AT KNOB SIDE	WF	WATER FOUNTAIN WALL
DO IN	DOOR SWINGS IN	WTMT	WATER METER BOX

BASIS OF SURVEY CONTROL

THE BASIS OF SURVEY CONTROL FOR THIS TOPOGRAPHIC SURVEY IS THE MIRACOSTA COLLEGE SAN ELIJO CAMPUS CONTROL SURVEY PREPARED, JOB NUMBER SDB053900, SUBMITTED TO MIRACOSTA COLLEGE IN JUNE 2010 BY NOLTE.

SOURCE OF TOPOGRAPHY

THE TOPOGRAPHY REPRESENTED HEREON IS BASED ON FIELD SURVEY CONDUCTED BY LATITUDE 33 PLANNING AND ENGINEERING ON JULY 8, 2020.

BASIS OF COORDINATES

THE COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AT EPOCH 1997.0, ARE EXPRESSED IN TERMS OF THE CALIFORNIA COORDINATE SYSTEM 1983, ZONE VI, AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) STATION PID # DG9734, WITH THE DESIGNATION OF FALLBROOK_CS2004 CORS ARP, WITH THE PUBLISH COORDINATE OF NORTHING: 2074323.656 EASTING: 6256719.632.

BASIS OF BEARINGS

BEARINGS ARE REFERENCE TO GRID NORTH AS DEFINED BY THE CALIFORNIA COORDINATE SYSTEM 1983, ZONE VI AND ARE BASED ON THE CALCULATED LINE FROM NGS PID # DG9734 FALLBROOK_CS2004 CORS ARP TO NGS PID # DH4102 CAMPELLIOT_CS2004. NORTH AZIMUTH=165°56'01", GRID DISTANCE=175187.67 US SURVEY FEET.

BASIS OF ELEVATION

ELEVATIONS ARE REFERENCE TO NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) AS DETERMINED LOCALLY BY CITY OF ENCINITAS BENCHMARK ENC–44. THE PUBLISHED ELEVATION BEING 18.56 US SURVEY FEET WAS ESTABLISHED USING VERTCON CONVERSION PROGRAM CREATED BY NATIONAL GEODETIC SURVEY.

BENCH MARK

3 1/2 INCH CORPS OF ENGINEERS BRASS DISK STAMPED "SEV–104 1974" SET IN A CONCRETE STRUCTURE OF THE OLIVENHAIN PUMP FACILITY. POINT IS IN THE NORTH SIDE OF MANCHESTER AVENUE, 65 FEET WEST OF THE NORTH BOUND I–5 OFF RAMP TO MANCHESTER AVENUE, IN THE MIDDLE OF SOUTH EDGE OF A CONCRETE SLAB PUMP STATION. ELEVATION: 18.56 NAVD88.

GROUND DISTANCES

ALL DISTANCES SHOWN HEREIN, UNLESS OTHERWISE NOTED, ARE GROUND DISTANCES. THE COMBINED GRID FACTOR AT POINT 18 IS 0.99997226. TO DETERMINE GRID DISTANCES, MULTIPLE GROUND DISTANCES BY THE COMBINED GRID FACTOR SHOWN HEREIN. EXAMPLE: 175,192.53 X 0.99997226 = 175,187.67 US SURVEY FEET.

DSA FILE NO. 37-C2 A# 04-119030

PBK

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Project Status

MiraCosta College

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Tel 858.791.0033

ENGINEER / LAND SURVEYOR

LICENSED SURVEYOR · Timothy J. Nolte · DRAFT · NO. 8332 · STATE OF CALIFORNIA

ARCHITECT

CLIENT

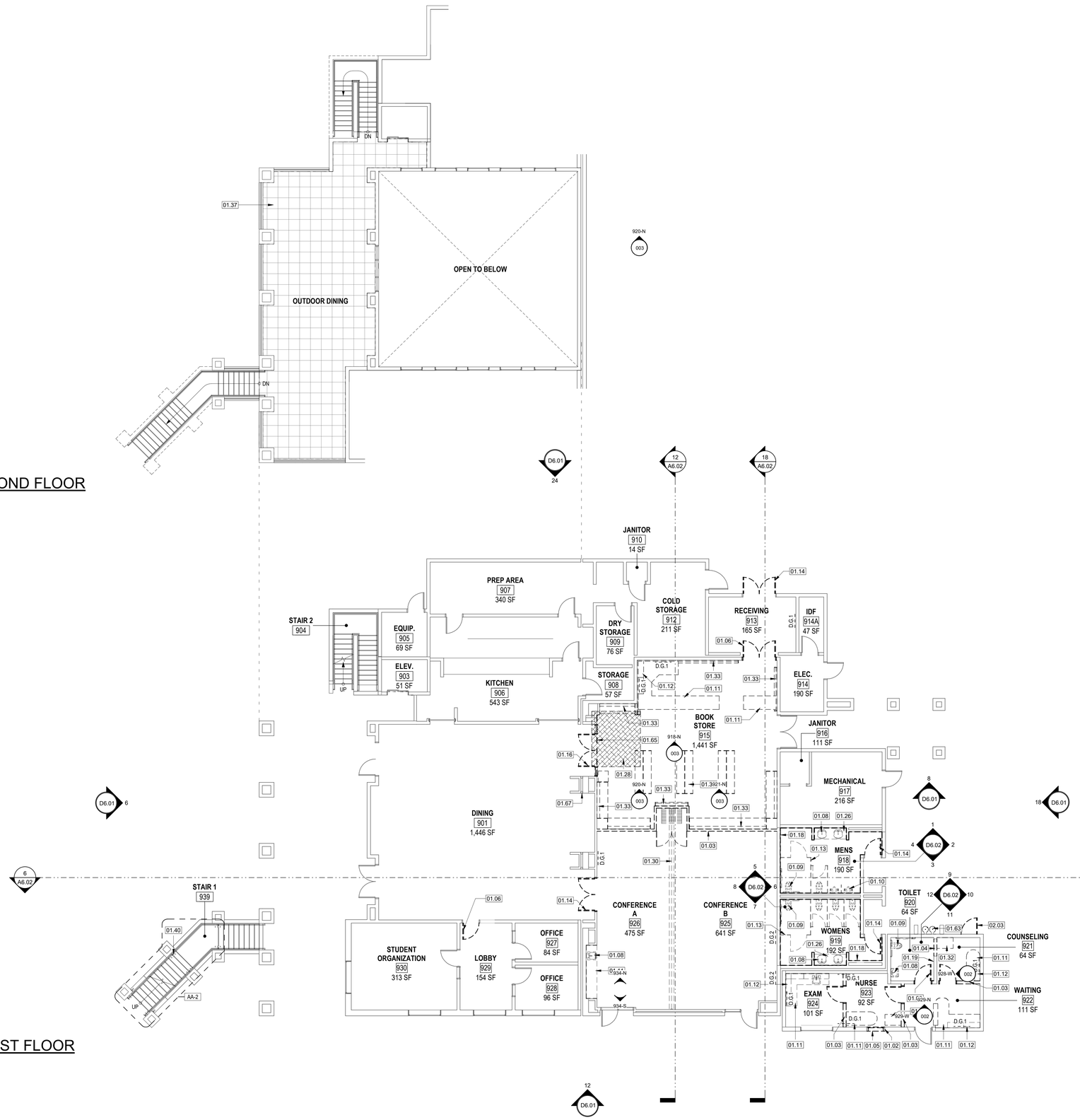
PROJECT NUMBER 20151
DATE: 07/21/2020
DRAWN BY: JMS, MAM
CHECKED BY: SDD

REVISIONS

No.	Description	Date
1	DRAFT SUBMITTAL	07/21/2020

TOPOGRAPHIC SURVEY

C01.00



FIRST FLOOR

KEYNOTE LEGEND

NUMBER	DESCRIPTION
01.02	REMOVE (E) EXT WOOD FRAMED EXT CEMENT PLASTER WALL AS REQUIRED TO INSTALL NEW WINDOW / DOOR
01.03	REMOVE (E) INT WOOD FRAMED GYPSUM WALLBOARD WALL
01.04	REMOVE (E) INT WOOD FRAMED GYPSUM WALLBOARD WALL AS REQUIRED TO INSTALL NEW WINDOW / DOOR
01.05	REMOVE (E) STOREFRONT WINDOW
01.06	REMOVE (E) H.M. DOOR AND FRAME
01.08	REMOVE (E) SINK
01.09	REMOVE (E) WATER CLOSET
01.10	REMOVE (E) URINAL
01.11	REMOVE (E) LOWER CASEWORK
01.12	REMOVE (E) UPPER CASEWORK
01.13	REMOVE (E) TOILET PARTITION
01.14	REMOVE (E) H.M. DOOR, PROTECT FRAME
01.16	REMOVE (E) STOREFRONT DOOR, WINDOW AND FRAME
01.18	REMOVE (E) CERAMIC TILE, BACKER BOARD AND GYPSUM WALLBOARD
01.19	REMOVE (E) 4" HIGH TILE WAINSCOT AND ASSOCIATED BACKER BOARD
01.26	REMOVE (E) COUNTERTOP
01.28	REMOVE (E) CONCRETE SLAB AS REQUIRED TO INSTALL (N) BELOW GRADE SEWER LINES
01.30	REMOVE (E) FOLDING WALL SYSTEM
01.32	REMOVE (E) FULL HEIGHT CABINET
01.33	REMOVE (E) FULL HEIGHT DISPLAY CASEWORK
01.34	REMOVE (E) FULL HEIGHT BOOK SHELF
01.37	REMOVE (E) 24x24 PATIO TILES TO CLEAN BELOW AND REINSTALL
01.40	REMOVE (E) RECESSED EXTERIOR LIGHT FIXTURE AND EXT CEMENT PLASTER AS REQUIRED TO INSTALL NEW FIXTURE
01.63	REMOVE (E) DRINKING FOUNTAIN
01.65	REMOVE (E) GYPSUM WALL BOARD AS REQUIRED TO INSTALL NEW PLUMBING, CARRIERS AND FIXTURES
01.67	REMOVE (E) SEISMIC JOINT COVER
02.03	(E) DOOR AND FRAME

GENERAL DEMOLITION NOTES

1. REMOVE (E) FLOORING, ADHESIVE, AND BASE IN ROOMS 913, 915, 921, 922, 923, 924, 925, & 926
2. REMOVE (E) CERAMIC WALL AND FLOOR TILE, BASE, AND GROUT AS REQUIRED TO RECEIVE NEW TILE IN EXISTING RESTROOMS 918, 919 AND 920
3. REMOVE (E) GYPSUM WALLBOARD IN ELECTRICAL ROOM 914, IDF ROOM 914A, AND MECHANICAL ROOM 915 WHERE EQUIPMENT AND CONDUITS ARE ADDED PER MECHANICAL, ELECTRICAL, TECHNOLOGY, FIRE PROTECTION, AND FIRE ALARM PLANS.
4. REMOVE (E) GYPSUM WALLBOARD AS REQUIRED TO INSTALL FRAMING WHERE NEW WALLS INTERSECT WITH EXISTING WALLS.
5. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAS BEEN APPROVED BY DSA.
6. SEE SHEET A1.01 FOR SITE DEMOLITION.

DEMOLITION LEGEND

- EXISTING WALL / CONDITION
- (E) WALL TO BE DEMOLISHED INCLUDING SILL PLATES AND ANCHORAGE, STUDS, BRACING AND TOP PLATES AT ROOF OR TOP OF WALL. REMOVE (E) ELECTRICAL, DATA AND FIRE ALARM CONDUIT, AND PLUMBING. REMOVE (E) 6" HIGH CONCRETE CURB AS NOTED
- PARTIAL DEMOLITION OF (E) WALL AS REQUIRED TO INSTALL NEW WINDOW / DOOR
- REMOVE (E) DOOR, FRAME AND ANCHORAGE
- (E) DOOR
- REMOVE (E) HOLLOW METAL WINDOW AND FRAME
- REMOVE (E) 24 X 24 PATIO TILES, CLEAN DRAINAGE BELOW AND REINSTALL
- D.G.1 — DEMOLISH 24" WIDE FLOOR TO CEILING (10' MAX) SECTION OF GYPSUM WALLBOARD WHERE NEW CONDUIT IS TO BE INSTALLED
- D.G.2 — DEMOLISH GYPSUM WALLBOARD WHERE NEW BLOCKING IS TO BE INSTALLED
- DEMOLISH (E) RECESSED LIGHT FIXTURE AND EXTERIOR CEMENT PLASTER AS REQUIRED TO INSTALL NEW LIGHT FIXTURE

ADDITIVE ALTERNATES

AA-2 EXTERIOR LIGHT FIXTURES

6 DEMOLITION FLOOR PLAN - LEVEL 1
1/8" = 1'-0"

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DSA FILE NO. 37-C2 A# 04-119576

PBK
ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION
3333 Manchester Ave, Cardiff, CA 92007

DSA SUBMITTAL

MiraCosta College

CONSULTANT

ENGINEER

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LICENSED ARCHITECT
Mark A. Eberle
No. C-28195
REN. 5-31-2021
STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

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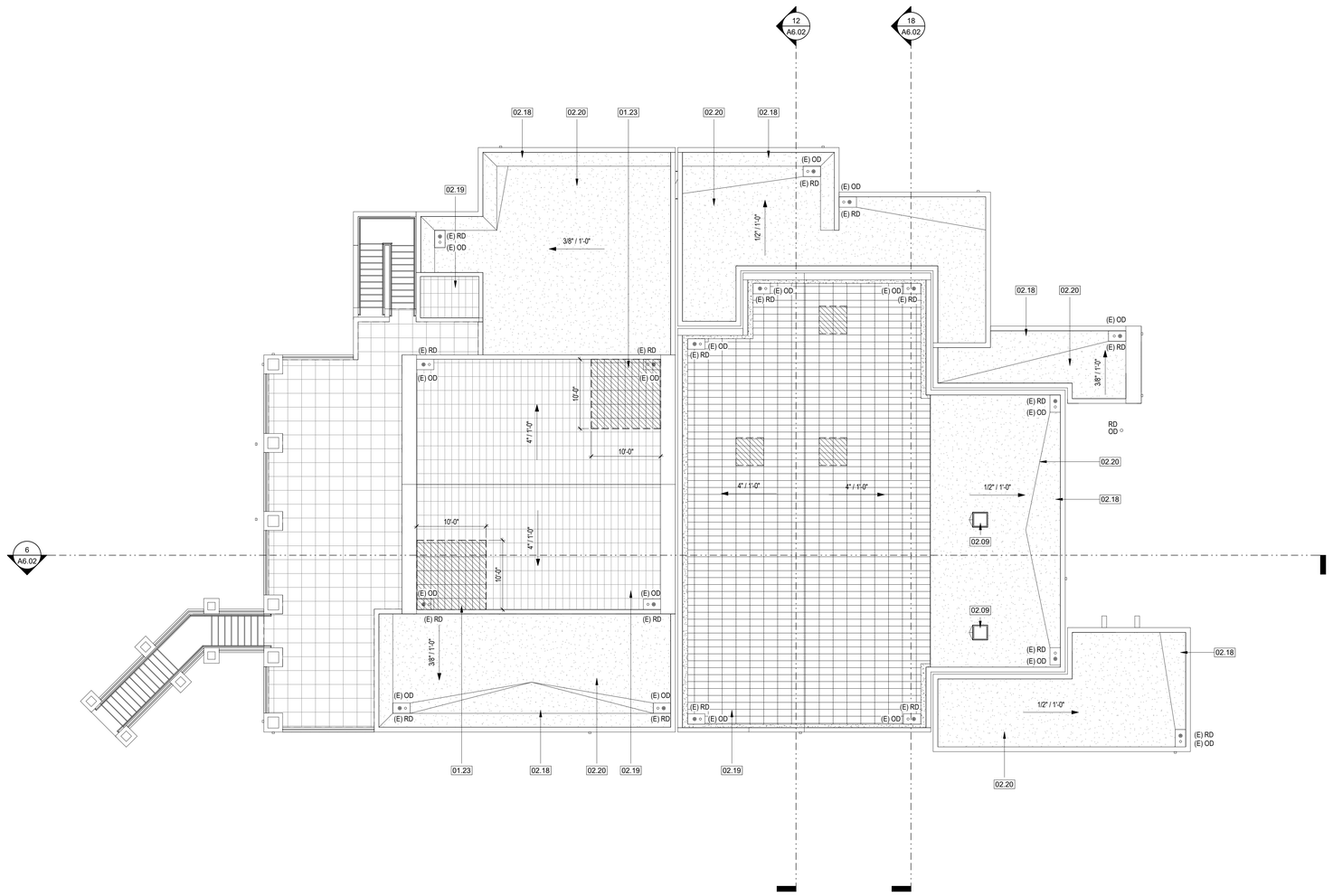
DEMOLITION FLOOR PLAN

D2.01



6 DEMOLITION ROOF PLAN
1/8" = 1'-0"

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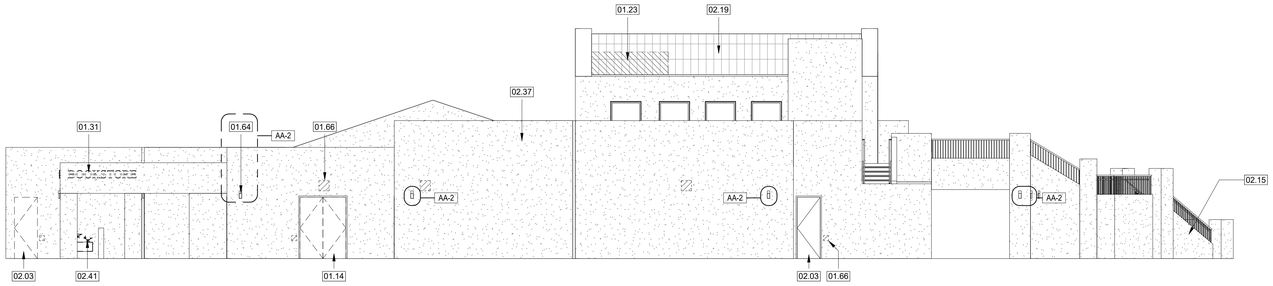
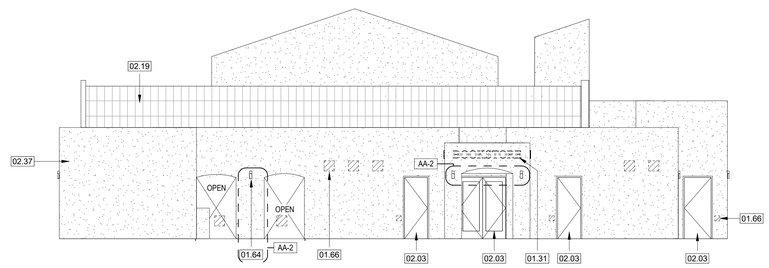
DEMOLITION ROOF PLAN

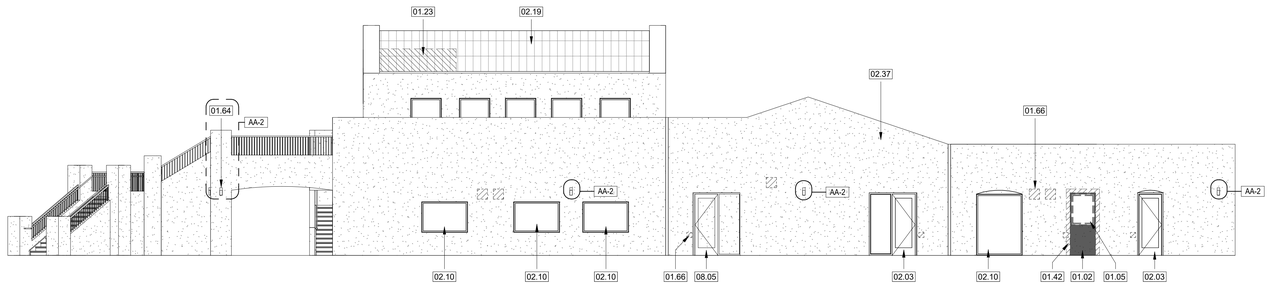
D3.01



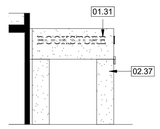
24 NORTH DEMOLITION ELEVATION
1/8" = 1'-0"



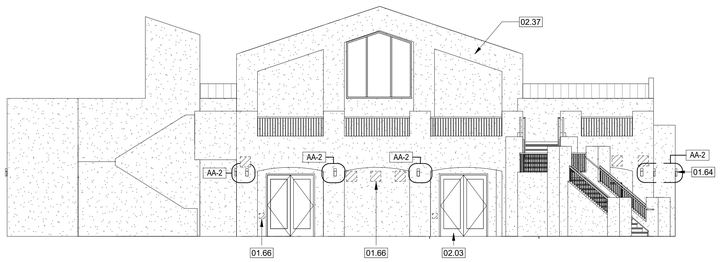
18 EAST DEMOLITION ELEVATION
1/8" = 1'-0"



12 SOUTH DEMOLITION ELEVATION
1/8" = 1'-0"



8 SOUTH DEMOLITION ELEVATION 2
1/8" = 1'-0"



6 WEST DEMOLITION ELEVATION
1/8" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
01.02	REMOVE (E) EXT WOOD FRAMED EXT CEMENT PLASTER WALL AS REQUIRED TO INSTALL NEW WINDOW / DOOR
01.05	REMOVE (E) STOREFRONT WINDOW
01.14	REMOVE (E) H.M. DOOR, PROTECT FRAME
01.23	REMOVE (E) CLAY ROOF TILE, PAPER, FELT, AND MEMBRANE. SAVE (E) CLAY ROOF TILE FOR REINSTALLATION OF NEW ROOF SYSTEM
01.31	REMOVE (E) EXTERIOR SIGNAGE
01.42	REMOVE (E) EXT CEMENTIOUS PLASTER, PROTECT (E) BUILDING PAPER. SEE DEMOLITION ELEVATION AND ASSOCIATED DETAILS FOR EXTENT.
01.64	REMOVE (E) EXTERIOR LIGHT FIXTURE AND EXT CEMENT PLASTER AS REQUIRED TO INSTALL NEW FIXTURE
01.66	REMOVE (E) EXTERIOR CEMENT PLASTER AS REQUIRED TO INSTALL ELECTRICAL, TECHNOLOGY AND SECURITY DEVISES
02.03	(E) DOOR AND FRAME
02.10	(E) H.M. WINDOW
02.15	(E) STAIR, GUARDRAIL AND HANDRAIL, PAINT
02.19	(E) CLAY TILE ROOF TO REMAIN, PROTECT UNLESS NOTED OTHERWISE
02.37	(E) EXT CEMENT PLASTER, PAINT
02.41	(E) DRINKING FOUNTAIN
08.05	H.M. DOOR, WINDOW AND FRAME

GENERAL NOTES

1. SEE DOOR & WINDOW DETAILS ON SHEET A9.04 FOR EXTENT OF DEMOLITION REQUIRED TO INSTALL NEW DOORS & WINDOWS
2. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAS BEEN APPROVED BY DSA.

DEMOLITION LEGEND EXTERIOR

- EXISTING WALL / CONDITION
- WALL TO BE DEMOLISHED AS NEEDED TO INSTALL NEW WINDOW / DOOR
- AREA OF (E) EXTERIOR CEMENT PLASTER TO BE REMOVED, PROTECT (E) BUILDING PAPER
- (E) CLAY TILE ROOF - PROTECT
- AREA OF CLAY TILE ROOF TO BE REMOVED AND SALVAGED, REPLACE WATERPROOF MEMBRANE AND REINSTALL

ADDITIVE ALTERNATES

AA-2 EXTERIOR LIGHT FIXTURES

DSA FILE NO. 37-C2 A# 04-119576

PBK

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DEMOLITION EXTERIOR ELEVATIONS

D6.01

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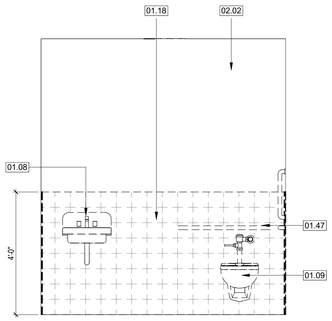
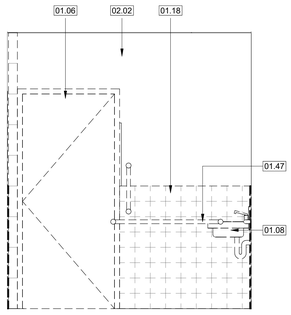
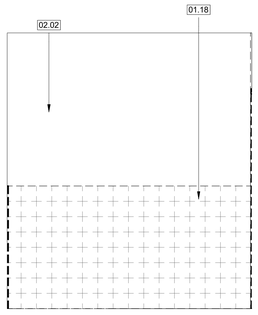


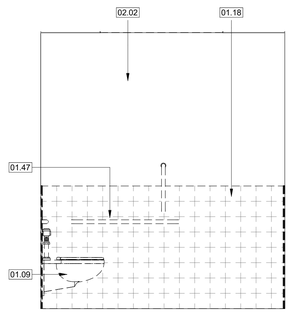
12 920 TOILET WEST



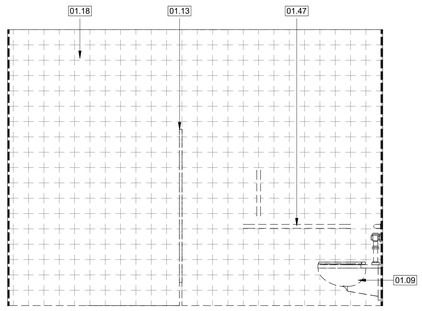
11 920 TOILET SOUTH



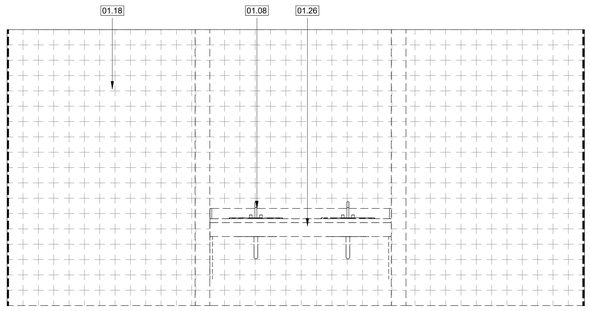
10 920 TOILET EAST



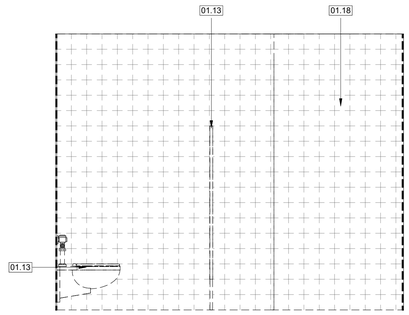
9 920 TOILET NORTH



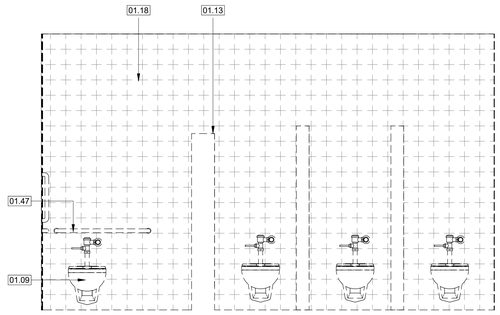
8 919 WOMENS WEST



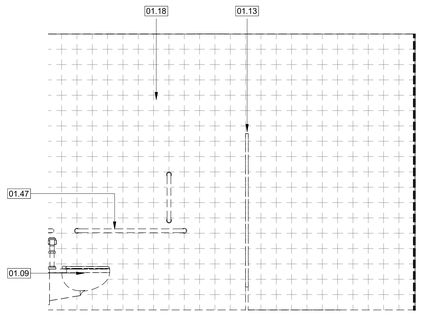
7 919 WOMENS SOUTH



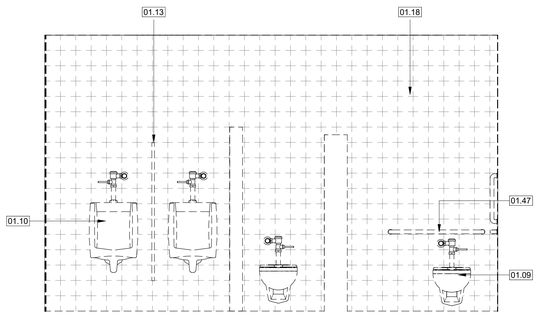
6 919 WOMENS EAST



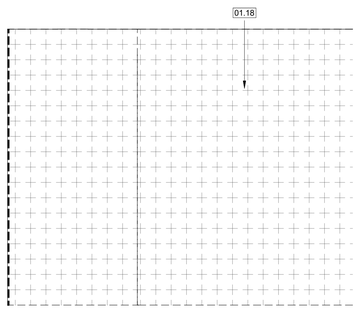
5 919 WOMENS NORTH



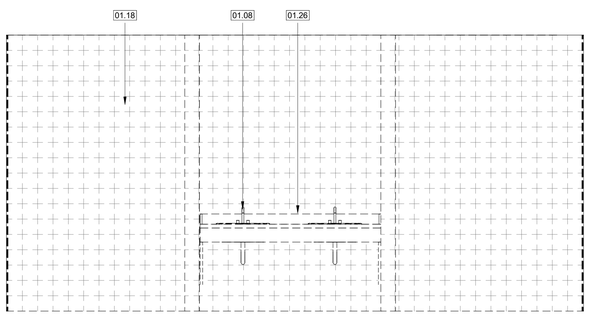
4 918 MENS WEST



3 918 MENS SOUTH



2 918 MENS EAST



1 918 MENS NORTH

KEYNOTE LEGEND

NUMBER	DESCRIPTION
01.06	REMOVE (E) H.M. DOOR AND FRAME
01.08	REMOVE (E) SINK
01.09	REMOVE (E) WATER CLOSET
01.10	REMOVE (E) URINAL
01.13	REMOVE (E) TOILET PARTITION
01.18	REMOVE (E) CERAMIC TILE, BACKER BOARD AND GYPSUM WALLBOARD
01.26	REMOVE (E) COUNTERTOP
01.47	REMOVE (E) TOILET ACCESSORY
02.02	(E) INT WOOD FRAMED WALL W/ 5/8" GYP WALLBOARD EACH SIDE

DSA FILE NO: 37-C2 A# 04-119030

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DEMOLITION INTERIOR ELEVATIONS

D6.02

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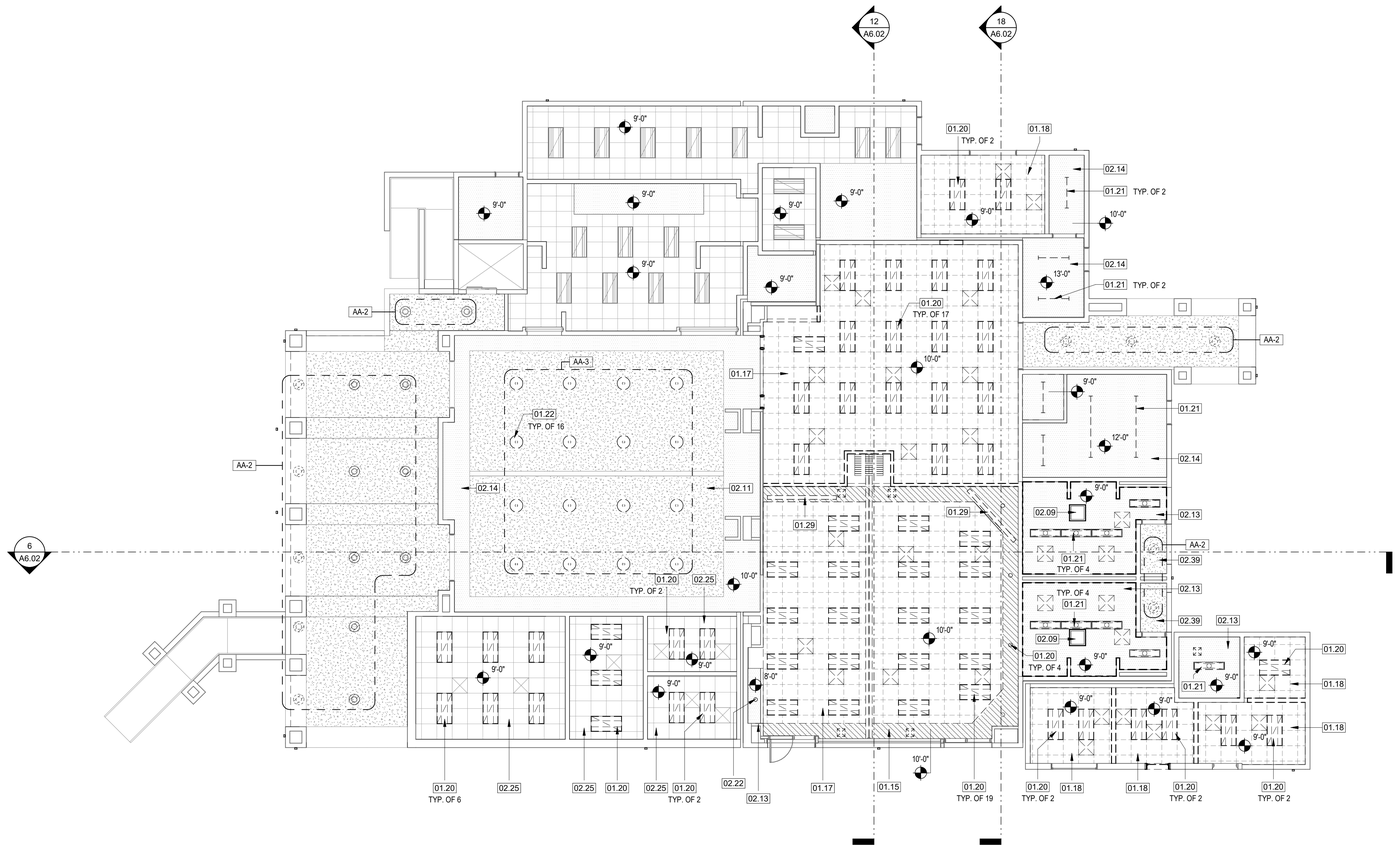

PROJECT NORTH

6 DEMOLITION REFLECTED CEILING PLAN
1/8" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
01.15	REMOVE (E) WOOD FRAMED GYPSUM WALLBOARD SOFFIT
01.17	REMOVE (E) 24x24 ACOUSTICAL PANELS, SUSPENSION SYSTEM, AND SUPPORTS
01.18	REMOVE (E) CERAMIC TILE, BACKER BOARD AND GYPSUM WALLBOARD
01.20	REMOVE (E) RECESSED LIGHT FIXTURE
01.21	REMOVE (E) SURFACE MOUNTED LIGHT FIXTURE
01.22	REMOVE (E) PENDANT LIGHT FIXTURE
01.29	REMOVE (E) RECESSED PROJECTOR SCREEN
02.09	(E) SKYLIGHT, PROTECT
02.11	(E) INT CEMENT PLASTER
02.13	(E) GYPSUM WALLBOARD, PAINT
02.14	(E) GYPSUM WALLBOARD
02.22	(E) RECESSED LIGHT FIXTURE
02.25	(E) 24x24 ACOUSTICAL CEILING PANEL SYSTEM
02.39	(E) EXT CEMENT PLASTER SOFFIT, PAINT

DEMOLITION LEGEND

- AREA NOT IN SCOPE
- (E) GYPSUM WALLBOARD CEILING TO REMAIN
- (E) CEMENT PLASTER CEILING TO REMAIN
- (E) 24 x 24 ACOUSTICAL PANEL SUSPENDED CEILING SYSTEM TO REMAIN
- REMOVE (E) WOOD FRAMED GYPSUM CEILING AND ALL ASSOCIATED LIGHT FIXTURES
- REMOVE (E) 24 X 24 ACOUSTICAL PANEL SUSPENDED CEILING SYSTEM AND ALL ASSOCIATED LIGHT FIXTURES
- (E) MECHANICAL REGISTER TO REMAIN(SEE MECHANICAL)
- REMOVE (E) MECHANICAL REGISTER (SEE MECHANICAL)
- REMOVE (E) EXT CEMENTITIOUS PLASTER AS REQUIRED TO REMOVE (E) AND INSTALL (N) LIGHT FIXTURE

ADDITIVE ALTERNATES

AA-2 EXTERIOR LIGHT FIXTURES

AA-3. DINING HALL LIGHT FIXTURES

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DEMOLITION REFLECTED CEILING PLAN

D10.01

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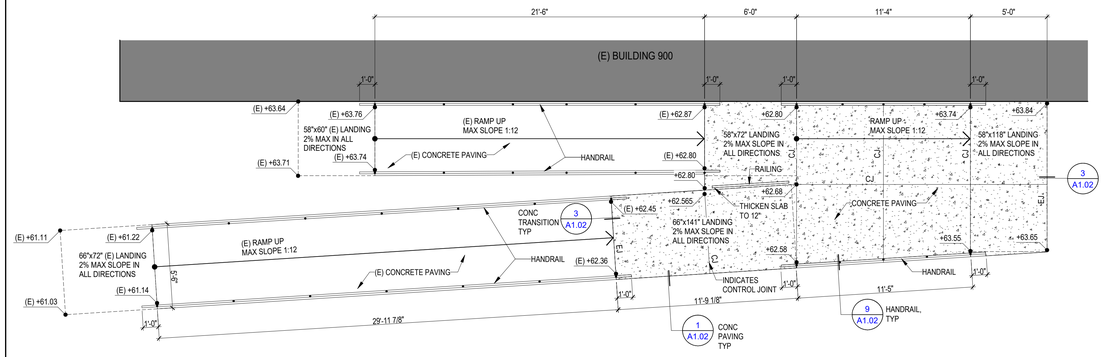
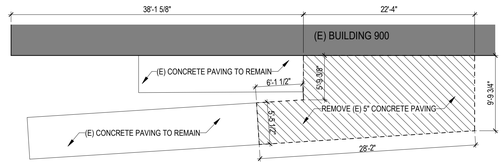
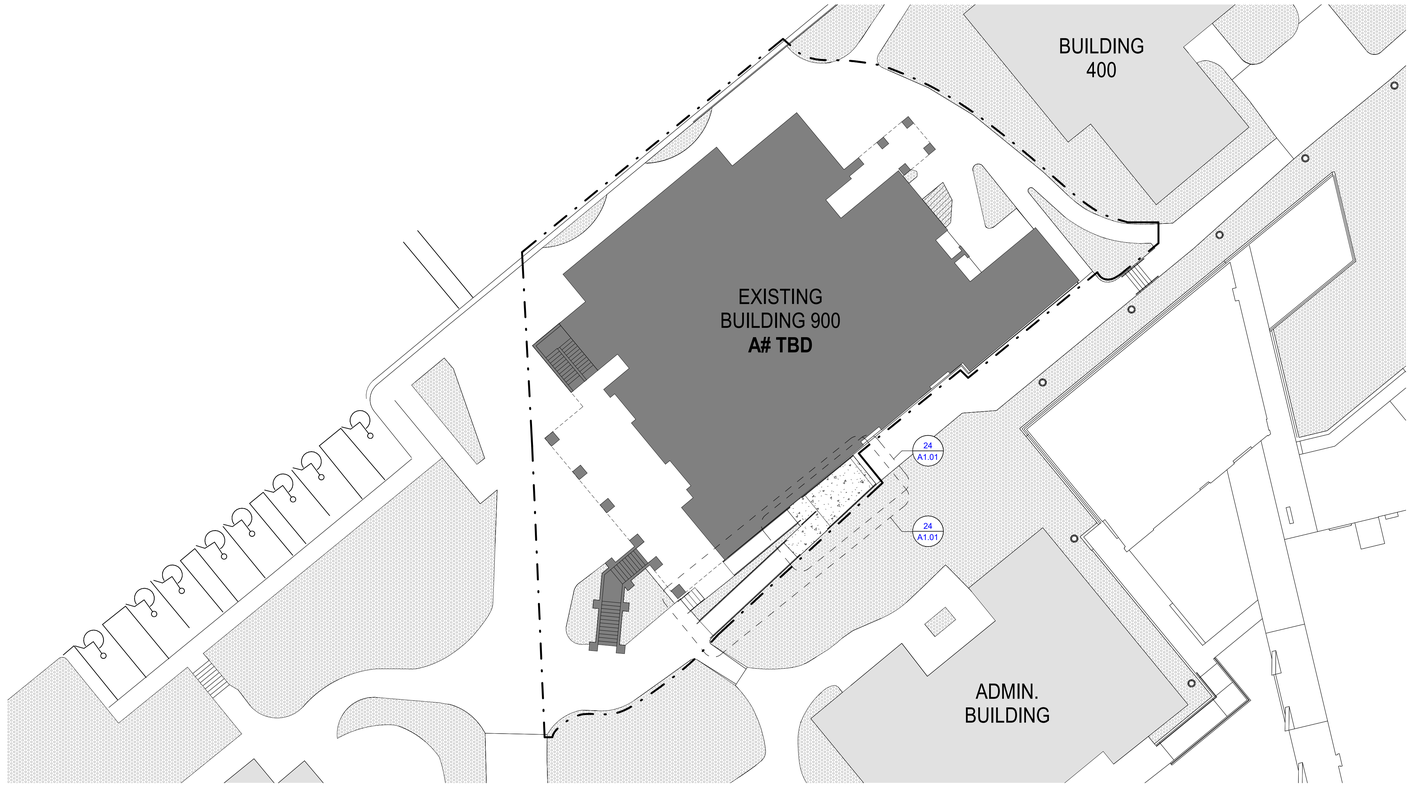
MM-20-020, SAN Building 400 & 900 Renovations ("Projects") – Prequalification Appendix Reference Documents



24 EXTERIOR RAMP
1/4" = 1'-0"



21 DEMO FOR EXTERIOR RAMP
1/8" = 1'-0"



6 PLOT PLAN
1/16" = 1'-0"

PLOT PLAN NOTES

1. REFER TO CIVIL DOCUMENTS
2. COORD. ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL, LANDSCAPE, AND OR STRUCTURAL DOCUMENTS
3. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 1 % MINIMUM, 2 % MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS, INCLUDING BUT NOT LIMITED TO, SIDEWALKS, PATIOS, STAIRS, PAVING, U.N.O.
4. PROVIDE AND INSTALL POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS OF 5 % FOR A HORIZ. DISTANCE OF 10 FEET AT ALL EXTERIOR NON-PAVED AREAS U.N.O
5. REFER TO CIVIL DOCUMENTS FOR CONCRETE SIDEWALK EXPANSION JOINTS AND CONCRETE SIDEWALK CONTROL JOINTS
6. VERIFY AND CONFIRM ALL JOINT LAYOUTS AT ALL CONCRETE SIDEWALKS WITH ARCH. PRIOR TO POURING OF CONCRETE
7. PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON-CENTER MAX. U.N.O.
8. PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 10 FEET ON-CENTER MAX.
9. VERIFY ALL SITE SIGNAGE LOCATIONS WITH ARCH. PRIOR TO INSTALLATION OF SITE SIGNAGE

PLOT PLAN LEGEND

- (E) BUILDING B900 TO BE MODERNIZED
- (E) CONCRETE PAVING - PROTECT
- (N) CONCRETE PAVING
- (E) PLANT MATERIAL, PROTECT
- (E) PLANT MATERIAL, REMOVE AS NEEDED FOR EXTERIOR IMPROVEMENTS
- LIMITS OF WORK

DSA FILE NO. 37-C2 A# 04-119576

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION
3333 Manchester Ave, Cardiff, CA 92007

DSA SUBMITTAL

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REN. 5-31-2021
STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY
COLLEGE DISTRICT

PROJECT NUMBER
20151

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CHECKED BY:	Checker

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PLOT PLAN

A1.01

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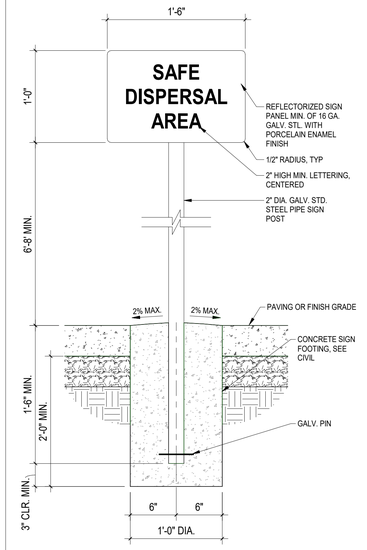
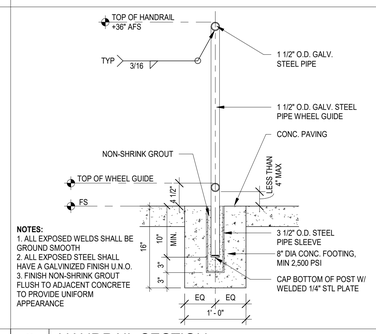


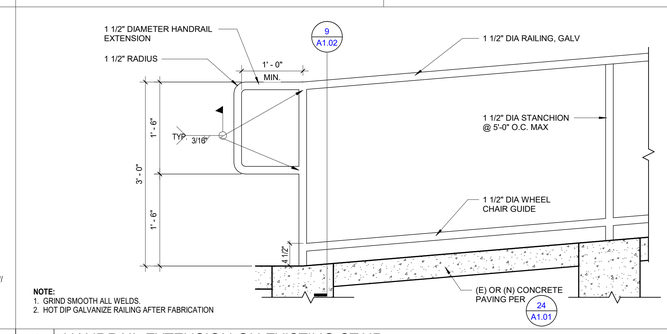
101400.16 *Rev 10/17*

19 SAFE DISPERSAL AREA SIGN
1 1/2" = 1'-0"



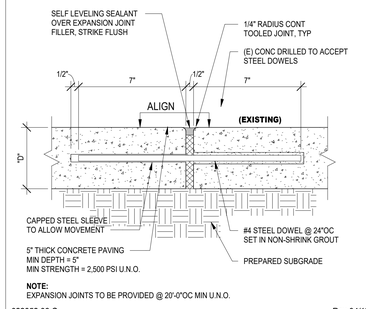
NOTES:
1. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH
2. ALL EXPOSED STEEL SHALL HAVE A GALVINIZED FINISH U.N.O.
3. FINISH NON-SHRINK GROUT FLUSH TO ADJACENT CONCRETE TO PROVIDE UNIFORM APPEARANCE

9 HANDRAIL SECTION
1" = 1'-0"



NOTE:
1. GRIND SMOOTH ALL WELDS.
2. HOT DIP GALVANIZE RAILING AFTER FABRICATION

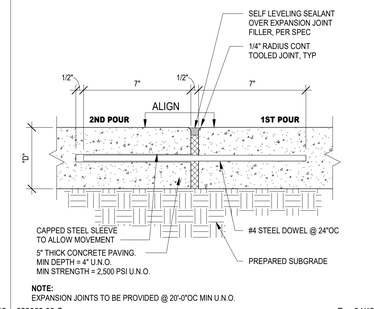
8 HANDRAIL EXTENSION ON EXISTING STAIR
1" = 1'-0"



NOTE:
EXPANSION JOINTS TO BE PROVIDED @ 20'-0"OC MIN U.N.O.

033053.06-S *Rev 04/18*

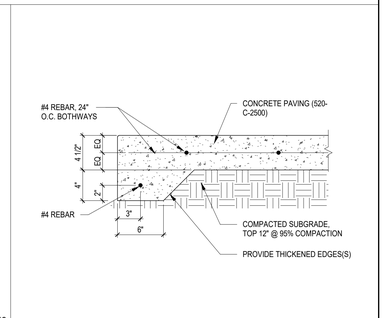
3 CONC EXP JOINT @ (E)
3" = 1'-0"



NOTE:
EXPANSION JOINTS TO BE PROVIDED @ 20'-0"OC MIN U.N.O.

033053.05-S *Rev 04/18*

2 CONC EXP JOINT - TYP
3" = 1'-0"



1 CONC PAVING - TYP
1 1/2" = 1'-0"

DSA FILE NO. 37-C2 A# 04-119030

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SITE DETAILS

A1.02

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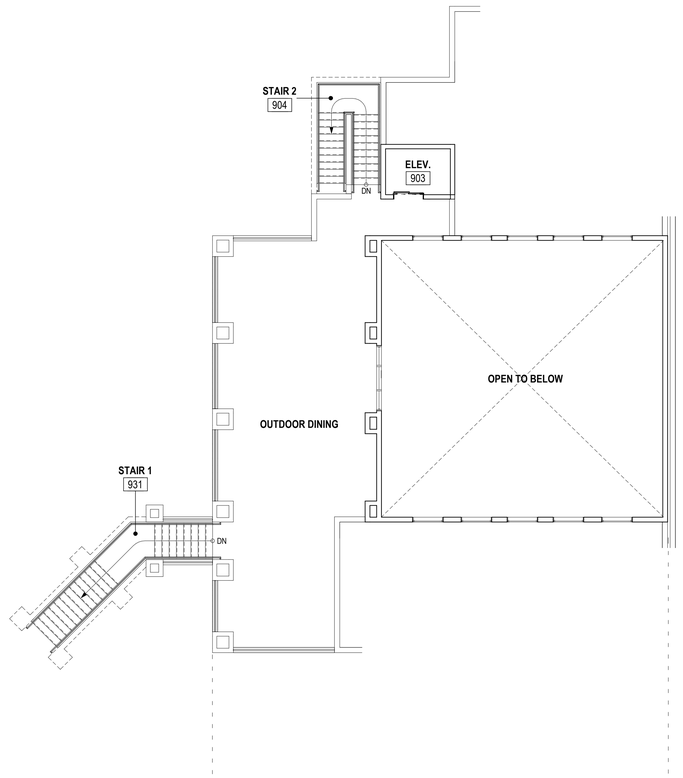
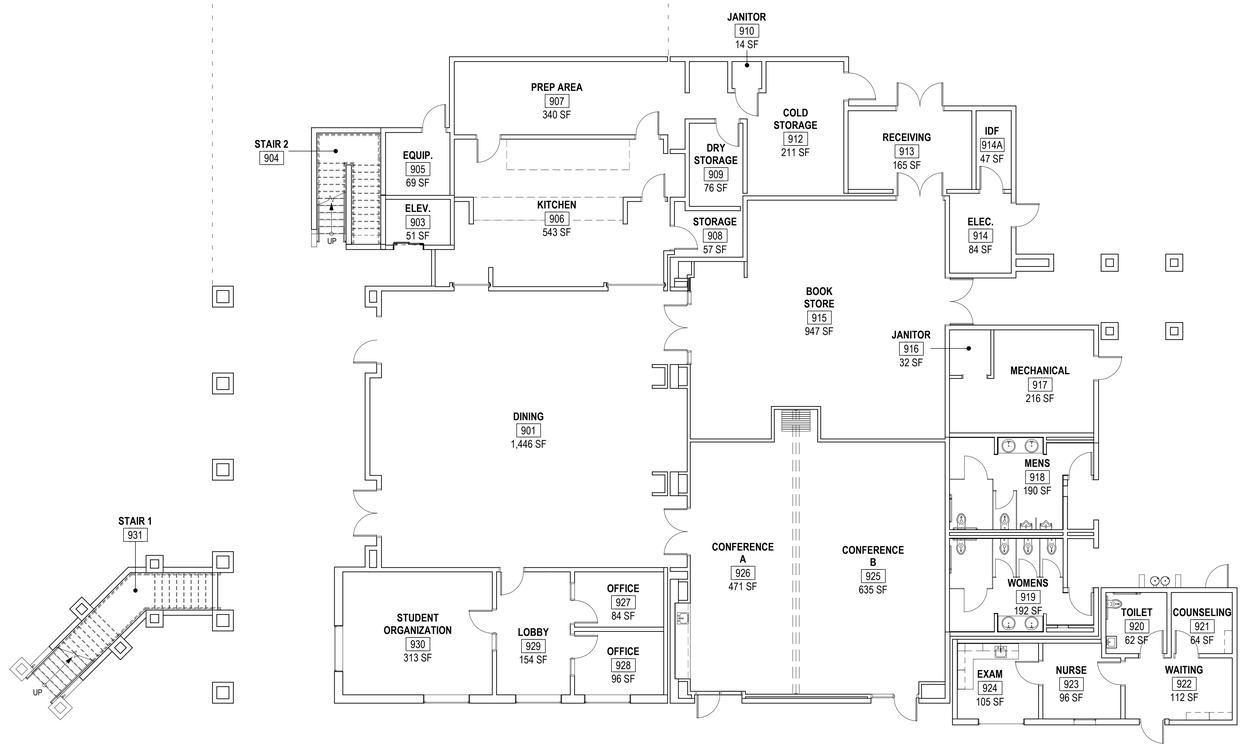
SECOND FLOOR



FIRST FLOOR



N

PROJECT NORTH

6 EXISTING FLOOR PLANS
1/8" = 1'-0"

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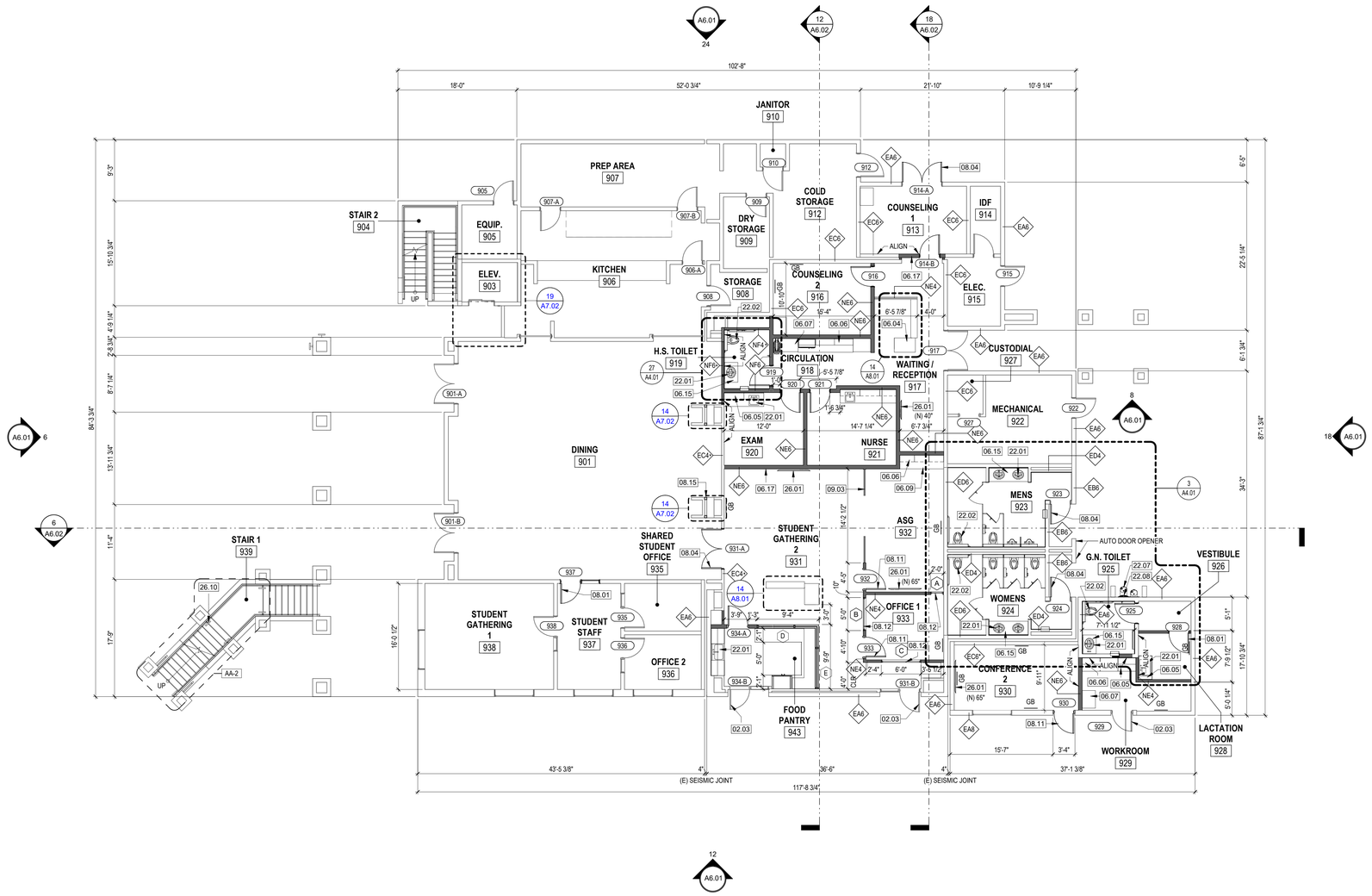
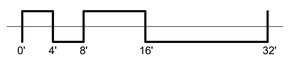
EXISTING FLOOR PLANS

A2.01





PROJECT NORTH

6 FLOOR PLAN - LEVEL 1
1/8" = 1'-0"

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02.03	(E) DOOR AND FRAME
06.04	RECEPTION DESK
06.05	BASE CABINET
06.06	UPPER CABINET
06.07	FULL HEIGHT CABINET
06.09	P. LAM O/ PLYWOOD COUNTERTOP
06.15	RESTROOM CABINET
06.17	INTERIOR WOOD STUD WALL W/ 5/8" GYPSUM WALL BOARD EACH SIDE
08.01	H.M. DOOR AND FRAME
08.04	H.M. DOOR
08.11	ALUMINUM STOREFRONT DOOR
08.12	ALUMINUM STOREFRONT WINDOW
08.15	1 HOUR SEISMIC JOINT COVER
09.03	RESINOUS PANEL
22.01	SINK AND FAUCET
22.02	WATER CLOSET
22.07	ACCESSIBLE DRINKING FOUNTAIN
22.08	BOTTLE FILL STATION
26.01	TV MONITOR (NIC). MOUNTING & BLOCKING (IC). SEE BLOCKING DETAIL 7 / A8.03
26.10	RECESSED EXTERIOR LIGHT FIXTURE. PATCH EXT CEMENT PLASTER AS REQUIRED

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS.
2. SEE DETAIL **3/A7.02** FOR PENNETRATIONS TROUGH (E) AND (N) WALLS
3. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
4. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
5. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
6. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
7. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
8. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
9. REFER TO PARTITION TYPES ON A7.00 SERIES SHEETS
10. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
11. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
12. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
13. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
14. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
15. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
16. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
17. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
18. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
19. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK
20. REFER TO DOOR SCHEDULE FOR LOCATION OF BLACK OUT CURTAINS

CONSTRUCTION LEGEND

- EXISTING WALL / CONDITION
- NEW WALL
- EA4 — WALL PARTITIONS TAG
  - NUMBER INDICATES CORE WIDTH
  - LETTER INDICATES PARTITION TYPE
  - LETTER INDICATES EXISTING OR NEW CONSTRUCTION
- 101A — DOOR NUMBER TAG
- 1 — STOREFRONT DOOR TYPE TAG
- A — STOREFRONT WINDOW TYPE TAG
- DRS — DUAL ROLLER SHADES (BASE BID)
- GB — INSTALL 24" WIDE FLOOR TO CEILING (10' MAX) SECTION OF GYPSUM WALLBOARD. PROVIDE WALL TEXTURE ON THE ENTIRE LENGTH OF WALL ON BOTH (N) AND (E) WALL SURFACES

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FLOOR PLAN

A2.02

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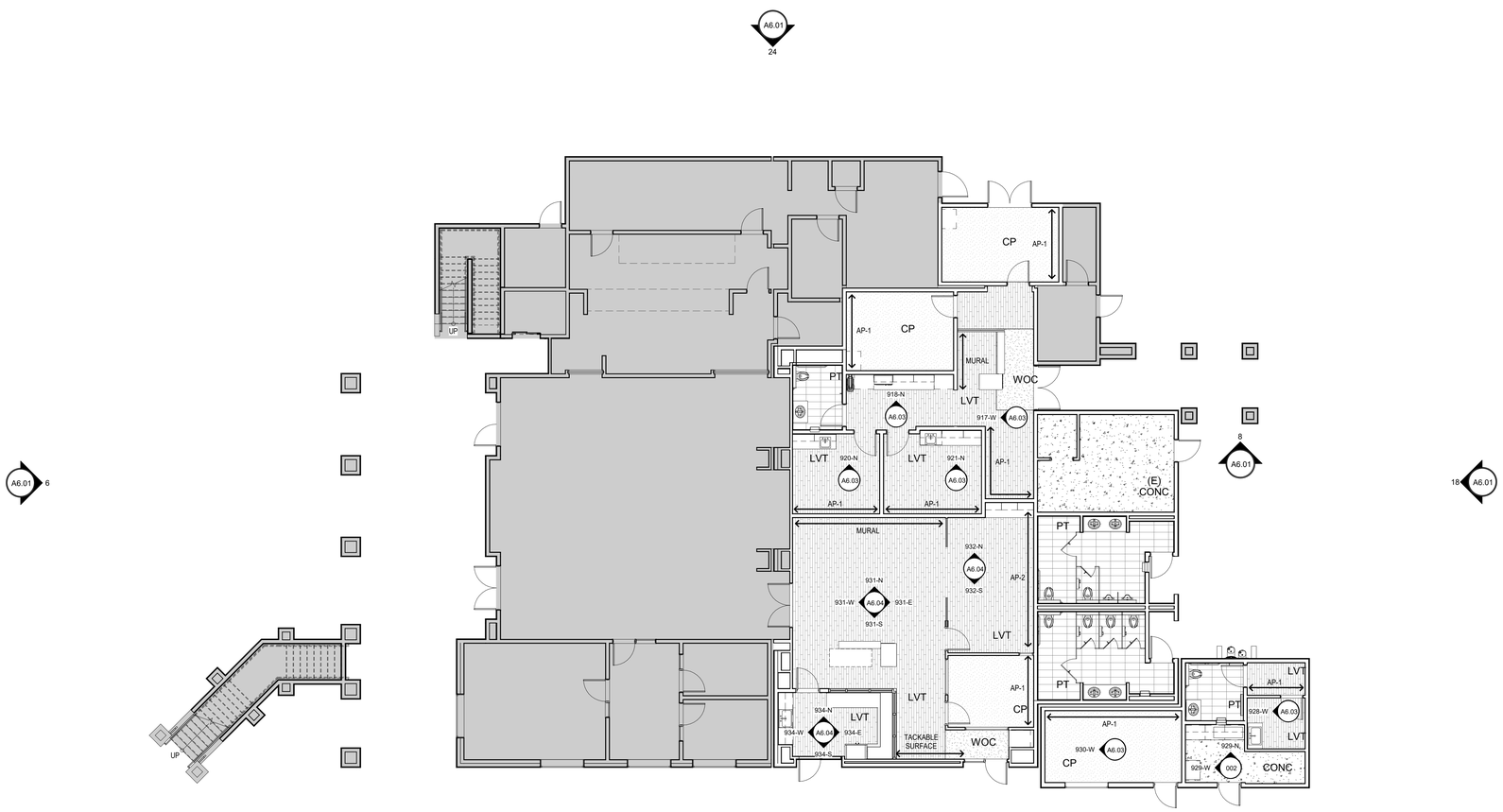

CONSTRUCTION LEGEND

- (E) FLOOR FINISHES TO REMAIN
- CARPET TILE
- WALK-OFF CARPET
- LUXURY VINYL TILE
- PORCELAIN TILE
- EXPOSED CONCRETE
- VINYL COMPOSITION TILE
- FD FLOOR DRAIN

INTERIOR COLOR CHART

	DESIGNATION	MATERIAL	MANUFACTURER	MODEL / COLOR
FLOOR	CP	CARPET	MANNINGTON	MOSO, SORREL
	WOC	WALK-OFF CARPET	MANNINGTON	FORCE, STATIC
	LVT	LUXURY VINYL TILE	MANNINGTON	DISSOLVE, RECEDE
	PT	PORCELAIN TILE	REFIN	FUSION, GREY
	CONC	EXPOSED CONCRETE	-	-
	FT	FLOORING TRANSITION STRIP	MANNINGTON	FUSION STRIP 3.2, PLATINUM METALLIC 117
BASE	TS	TOP SET BASE	ROPPE	STEEL GRAY 148
	PT	PORCELAIN TILE	REFIN	FUSION, GREY
WALL	FP-1	FIELD	SHERWIN WILLIAMS	WHITE SHADOW 181
	AP-1	ACCENT 1	SHERWIN WILLIAMS	QUIETUDE SW 6212
	AP-2	ACCENT 2	SHERWIN WILLIAMS	CLOUDBURST SW 6487
	PT-2	PORCELAIN TILE	DALTILE	VOLUME 1.0, REVERB ASH VL74
CEILING	SAPC	SUSPENDED ACOUSTIC CEILING PANEL	ARMSTRONG	NO. 1912, 2'x2' WHITE
DOOR / WINDOW	ID	H.M. DOORS & FRAMES	BENJAMIN MOORE	CRISP KHAKI 234
	DRS	FABRIC DUAL ROLLER SHADE	MECHO	THERMOVEIL 2100 (10%) OPEN BASKET WEAVE, SILVER BIRCH 2119
CASEWORK	SS	SOLID SURFACE	FORMICA	BIANCO MINERAL 758
	P.LAM-1	PLASTIC LAMINATE 1	ALLSTEEL	LOFT
	P.LAM-2	PLASTIC LAMINATE 2	ALLSTEEL	KINGSWOOD
	P.LAM-3	PLASTIC LAMINATE 3	FORMICA	WALNUT RIFTWOOD 9283-58, MATTE, VERTICAL
SPECIALTY	MB	WALL-MOUNTED MARKER BOARD	CLARIDGE	1/4" MOUNTED, WHITE, ALUMINUM FRAME
	CB	WALL-MOUNTED CORK BOARD	CLARIDGE	1/4" MOUNTED, OYSTER 1103, ALUMINUM FRAME
	TC	TOILET COMPARTMENT, SCREEN, & SHELF	FORMICA	PLAM-3 OVER SOLID PHENOLIC CORE

EXTERIOR COLOR CHART

	DESIGNATION	MATERIAL	MANUFACTURER	MODEL / COLOR
DOOR / WINDOW	ED	EXTERIOR H.M. DOORS AND FRAMES	BENJAMIN MOORE	COPPER PATINA 619

6 FINISH FLOOR PLAN
1/8" = 1'-0"

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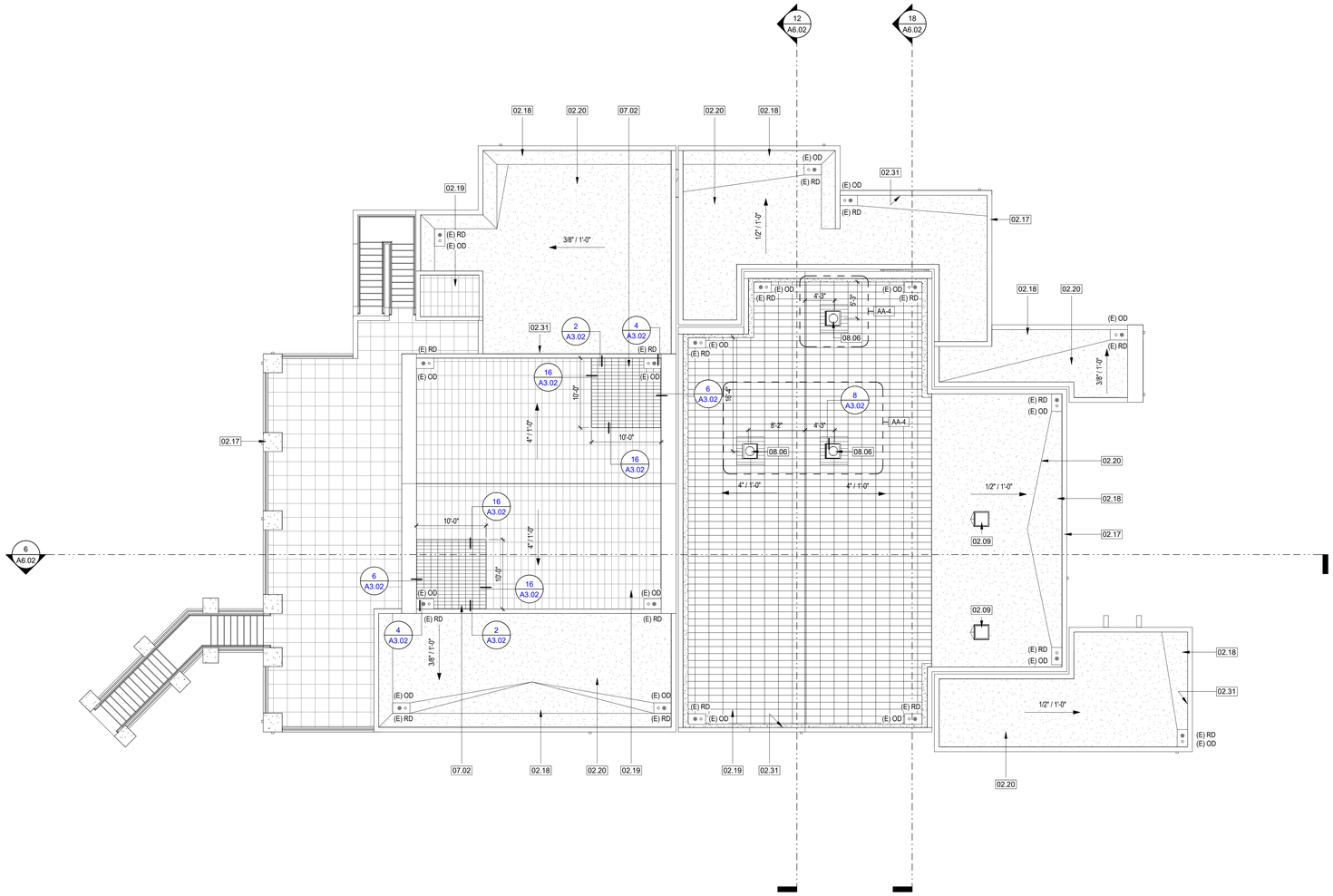
FINISH FLOOR PLAN

A2.03



KEYNOTE LEGEND

NUMBER	DESCRIPTION
02.09	(E) SKYLIGHT, PROTECT
02.17	(E) EXT CEMENT PLASTER COPING, PAINT
02.18	(E) PLYWOOD CRICKET
02.19	(E) CLAY TILE ROOF TO REMAIN, PROTECT UNLESS NOTED OTHERWISE
02.20	(E) MEMBRANE ROOF OVER PLYWOOD SHEATHING TO REMAIN, PROTECT
02.31	(E) EXT CEMENT PLASTER PARAPET (+3'-0" HEIGHT), PAINT
07.02	CLAY TILE ROOF O/ SBS MODIFIED BITUMEN UNDERLAYMENT AND (E) PLYWOOD SHEATHING (MIX OF IN) AND SALVAGED CLAY TILE)
08.06	TUBULAR SKYLIGHT

ROOF PLAN NOTES

1. PROTECT (E) PVC ROOF MEMBRAME. PROTECT AS REQUIRED TO MAINTAIN THE DISTRICTS EXISTING WARRANTY FOR THE PVC ROOF.
2. CONTRACTOR SHALL JET EXISTING ROOF DRAINS WITHIN 30 DAYS OF THE START OF CONSTRUCTION AND NOTIFY THE DISTRICT OF ANY OBSTRUCTIONS.
3. HIGH TEMPERATURE WATERPROOF UNDERLAYMENT (SBS MODIFIED BITUMEN) AS PER URBAN WILDLAND INTERFACE REQUIREMENTS
4. SEE DETAIL 24 / A3.02 AND PLUMBING DRAWINGS FOR PIPE PENETRATION.
5. NEW AND EXISTING ROOF ASSEMBLIES ARE CLASS A ROOFS.

ROOF PLAN LEGEND

(E) PVC ROOF.

(E) CLAY TILE ROOF - PROTECT

AREA OF CLAY TILE ROOF TO BE REMOVED AND SALVAGED, REPLACE WATERPROOF MEMBRANE AND REINSTALL

(E) 24x24 FLOORING TILES TO BE REMOVED AND REINSTALLED TO ALLOW FOR CLEANING OF DRAIN TROUGH BELOW

ADDITIVE ALTERNATES

AA-4 SOLATUBES

PROJECT NORTH

6 ROOF PLAN
1/8" = 1'-0"

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ROOF PLAN

A3.01

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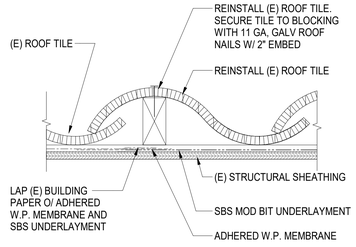
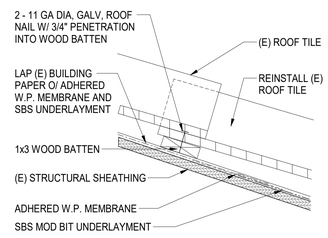
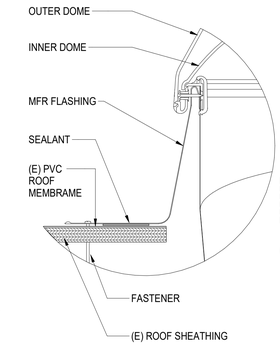


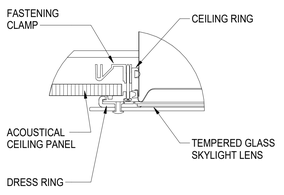
16 FLASHING BETWEEN NEW AND EXISTING ROOF
3" = 1'-0"





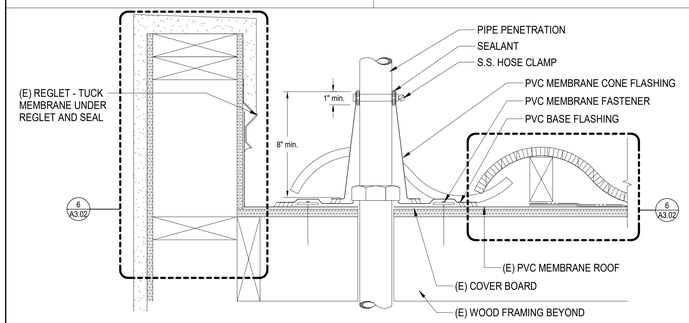
NOTE:
TUBULAR SKYLIGHTS WILL BE ELECTRONICALLY DIMMED, SEE ELECTRICAL PLANS

SECTION A

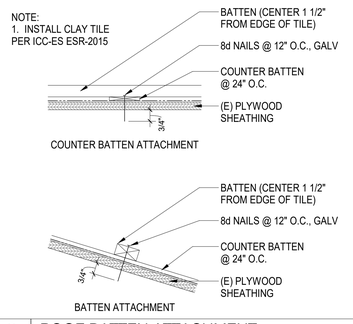


SECTION B

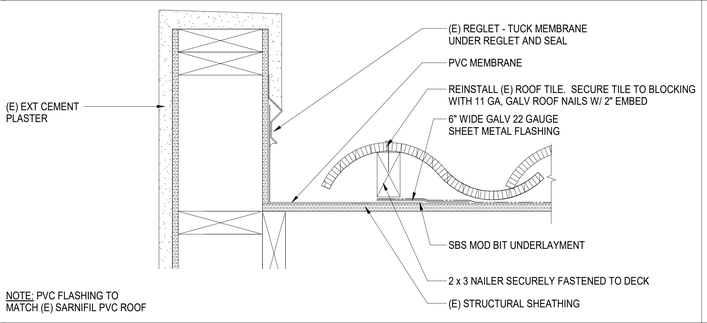
8 TUBULAR SKYLIGHT
1 1/2" = 1'-0"



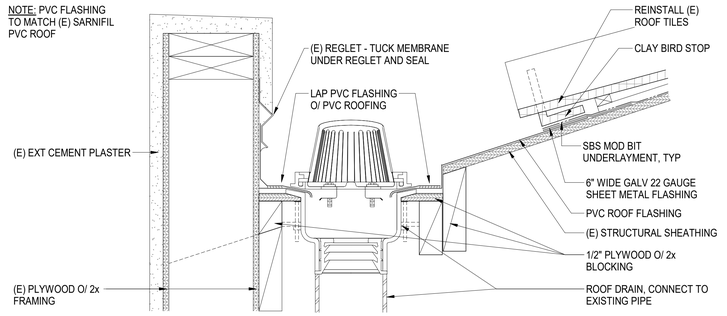
12 CONE FLASHING AT PENETRATION
3" = 1'-0"



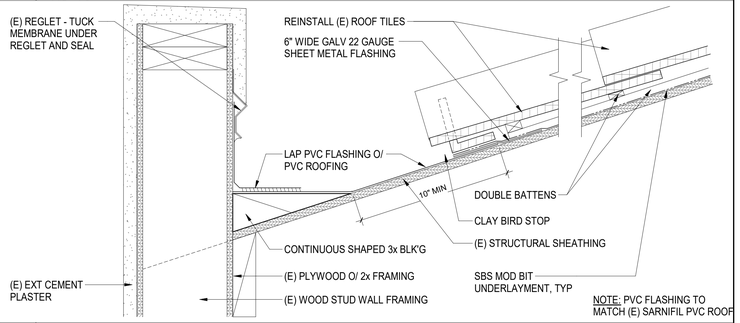
9 ROOF BATTEN ATTACHMENT
3" = 1'-0"



6 CLAY TILE ROOF @ SIDE WALL
3" = 1'-0"



4 CLAY TILE ROOF @ ROOF DRAIN
3" = 1'-0"



2 CLAY TILE ROOF @ PARAPET
3" = 1'-0"

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DSA FILE NO: 37-C2 A# 04-119030

PBK
ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION
3333 Manchester Ave, Cardiff, CA 92007

DSA SUBMITTAL

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REN. 5-31-2021
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CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER	20151
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REVISIONS

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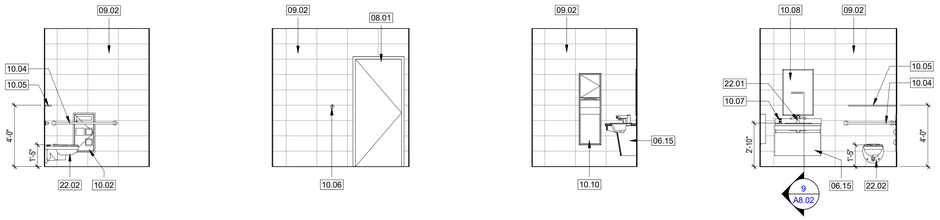
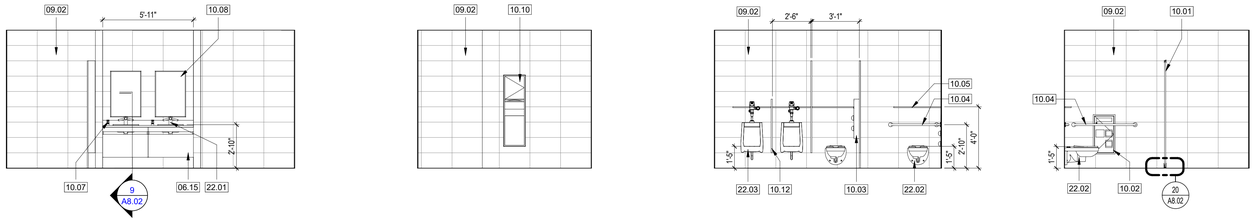
ROOF DETAILS

A3.02



30A NORTH 30B EAST 30C SOUTH 30D WEST

30 916A HEALTH SERVICES TLT - INTERIOR ELEVATIONS
1/4" = 1'-0"



24A NORTH 24B EAST 24C SOUTH 24D WEST

24 918 MEN'S TLT - INTERIOR ELEVATIONS
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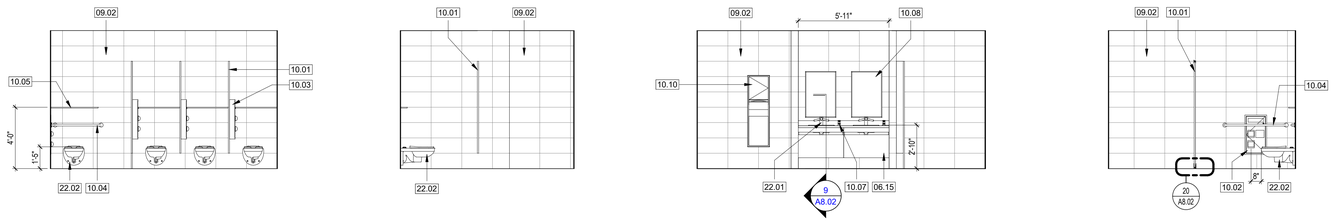
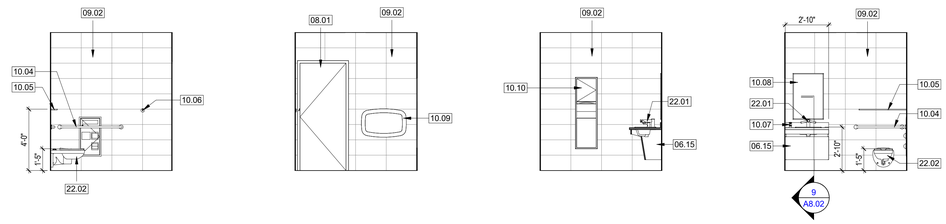


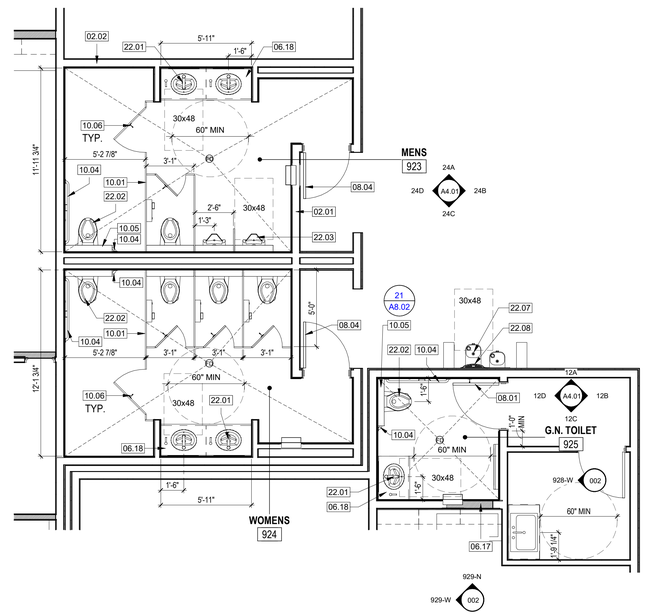
18A NORTH 18B EAST 18C SOUTH 18D WEST

18 919 WOMEN'S TLT - INTERIOR ELEVATIONS
1/4" = 1'-0"



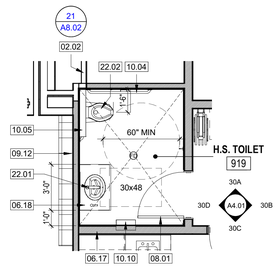
12A NORTH 12B EAST 12C SOUTH 12D WEST

12 920 GENDER NEUTRAL TLT - INTERIOR ELEVATIONS
1/4" = 1'-0"



3 ENLARGED RESTROOMS PLAN
1/4" = 1'-0"

27 ENLARGED RESTROOM PLAN - HEALTH
1/4" = 1'-0"



26 TOILET ACCESSORY TYPES
12" = 1'-0"

LABEL	DESCRIPTION	REMARKS
TA-1	COMBO T. P. AND SEAT COVER DISPENSER AND S.N. DISPOSAL	
TA-2	GRAB BARS AT TYPICAL ACCESSIBLE TOILET STALLS	
TA-3	SHELF	
TA-4	CLOTHES HOOK	NOTE 6
TA-5	SOAP DISPENSER	
TA-6	MIRROR (24"X36" U.N.O.)	NOTE 5
TA-7	DIAPER CHANGING STATION	
TA-8	COMBO TOWEL DISPENSER/WASTE RECEPTACLE	
TA-9	SHELF, MOP & BROOM HOLDER	

NOTES:

1. ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE
2. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
3. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ADA.
4. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE.VERIFY ALL PATTERNS WITH ARCHITECT.
5. ALIGN MIRROR ON CENTER OF LAVATORY U.N.O.
6. ONE HOOK INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER, MOUNTED AT 48" MAX AFF

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02.01	(E) EXT WOOD FRAMED CEMENT PLASTER WALL, PAINT
02.02	(E) INT WOOD FRAMED WALL W/ 5/8" GYP WALLBOARD EACH SIDE
06.15	RESTROOM CABINET
06.17	INTERIOR WOOD STUD WALL W/ 5/8" GYPSUM WALL BOARD EACH SIDE
06.18	SOLID SURFACE COUNTERTOP W/ BACKSPLASH
08.01	H.M. DOOR AND FRAME
08.04	H.M. DOOR
09.02	PORCELAIN WALL TILE TO CEILING
09.12	INSTALL VCT TILE TO MATCH (E) ADJACENT VCT TILE.
10.01	SOLID PHENOLIC OVERHEAD TOILET PARTITION
10.02	RECESSED T.P. AND SEAT COVER DISPENSER AND S.N DISPOSAL TA-1 SEE DETAIL 27/G0.04 FOR MOUNTING.
10.03	SURFACE MOUNTED T.P. AND SEAT COVER DISPENSER AND S.N DISPOSAL TA-1
10.04	GRAB BARS TA-2
10.05	SOLID PHENOLIC SHELF TA-3
10.06	CLOTHES HOOK TA-4
10.07	SOAP DISPENSER TA-5
10.08	MIRROR TA-6
10.09	DIAPER CHANGING STATION TA-7
10.10	COMBO TOWEL DISPENSER/ WASTE RECEPTACLE TA-8
10.12	SOLID PHENOLIC URINAL PARTION
22.01	SINK AND FAUCET
22.02	WATER CLOSET
22.03	URINAL
22.07	ACCESSIBLE DRINKING FOUNTAIN
22.08	BOTTLE FILL STATION

INTERIOR ELEVATION NOTES

1. SEE SHEET A9.01 FOR ROOM FINISH SCHEDULE
2. SEE DETAIL **4/G0.04** FOR FIXTURE AND ACCESSORY MOUNTING HEIGHTS
3. SEE SHEET A7.01 FOR WALL FINISH DETAILS
4. MATCH ADJACENT WALL FINISH WHERE A WALL SURFACE IS NOT ELEVATED.
5. ALL RESTROOM CABINETS USE P.LAM-3 PER INTERIOR COLOR CHART ON SHEET A2.03

INT PLAN AND ELEVATION LEGEND

PORCELAIN TILE

NEW WALL

FD FLOOR DRAIN

DSA FILE NO. 37-C2 A# 04-119030

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ENLARGED PLANS AND INTERIOR ELEVATIONS

A4.01

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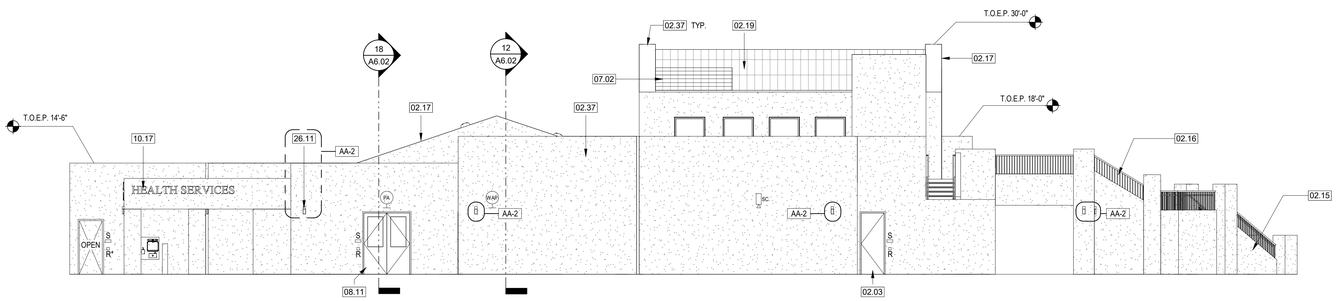
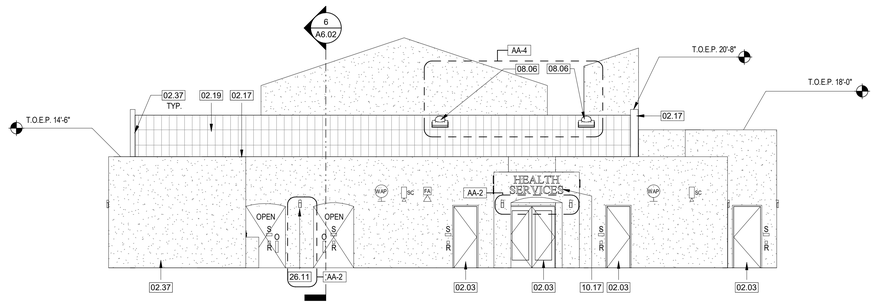
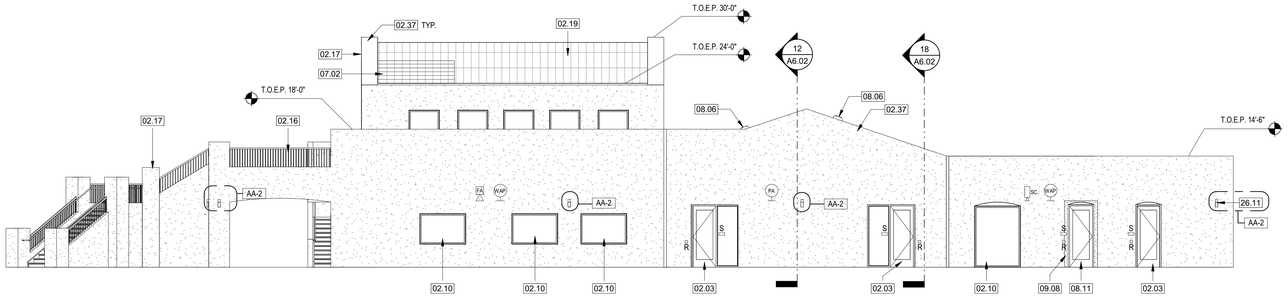


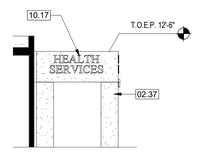
24 NORTH ELEVATION
1/8" = 1'-0"



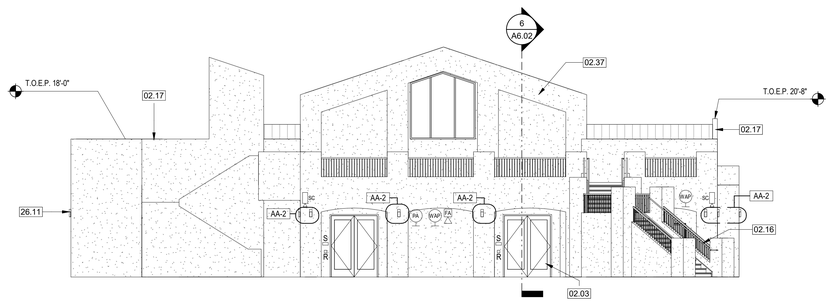
18 EAST ELEVATION
1/8" = 1'-0"



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



8 SOUTH ELEVATION 2
1/8" = 1'-0"



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

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02.03	(E) DOOR AND FRAME
02.10	(E) H.M. WINDOW
02.15	(E) STAIR, GUARDRAIL AND HANDRAIL, PAINT
02.16	(E) GUARDRAIL, PAINT
02.17	(E) EXT CEMENT PLASTER COPING, PAINT
02.19	(E) CLAY TILE ROOF TO REMAIN, PROTECT UNLESS NOTED OTHERWISE
02.37	(E) EXT CEMENT PLASTER, PAINT
07.02	CLAY TILE ROOF O/ SBS MODIFIED BITUMEN UNDERLAYMENT AND (E) PLYWOOD SHEATHING (MIX OF (N) AND SALVAGED CLAY TILE)
08.06	TUBULAR SKYLIGHT
08.11	ALUMINUM STOREFRONT DOOR
09.08	EXT CEMENTICIOUS PLASTER PATCH
10.17	BUILDING SIGNAGE
26.11	EXTERIOR LIGHT FIXTURE. PATCH EXT CEMENT PLASTER AS REQUIRED

EXTERIOR ELEVATION NOTES

1. PAINT ALL EXISTING AND NEW EXTERIOR CEMENT PLASTER, INCLUDING WALL, SOFFITS, TOP AND INTERIOR SIDE OF PARAPETS. REFER TO EXTERIOR COLOR CHART ON SHEET A2.03.
2. PAINT EXISTING AND NEW HOLLOW METAL DOORS, WINDOWS AND FRAMES. PROTECT ALUMINUM STOREFRONT DOORS, WINDOWS AND FRAMES. REFER TO EXTERIOR COLOR CHART ON SHEET A2.03.

EXTERIOR ELEVATION LEGEND

- (E) EXTERIOR CEMENT PLASTER - PAINT
- EXTERIOR CEMENT PLASTER PATCH - PAINT
- (E) CLAY TILE ROOF - PROTECT
- AREA OF CLAY TILE ROOF TO BE REMOVED AND SALVAGED, REPLACE WATERPROOF MEMBRANE AND REINSTALL
- PA — EXTERIOR PAGING SPEAKER, SEE TECHNOLOGY PLANS
- WAP — WIRELESS ACCESS POINT OUTLET, SEE TECHNOLOGY PLANS
- SC — SECURITY CAMERA, SEE TECHNOLOGY PLANS
- FA — WEATHERPROOF WALL SPEAKER STROBE, SEE FIRE ALARM PLANS
- S — SIGNAGE. SEE SHEET G0.03 FOR TYPES AND LOCATIONS
- R — CARD READER. SEE SECURITY DRAWINGS FOR ADDITIONAL INFORMATION.
- O — ACCESSIBLE DOOR OPERATOR. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

ADDITIVE ALTERNATES

AA-2 EXTERIOR LIGHT FIXTURES

AA-4 SOLATUBES

DSA FILE NO. 37-C2 A# 04-119576

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EXTERIOR ELEVATIONS

A6.01

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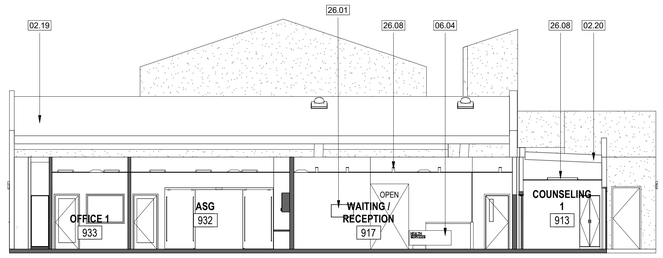
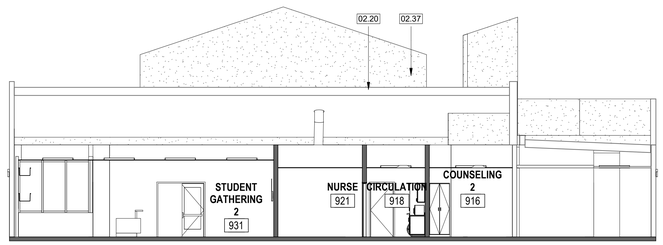
KEYNOTE LEGEND

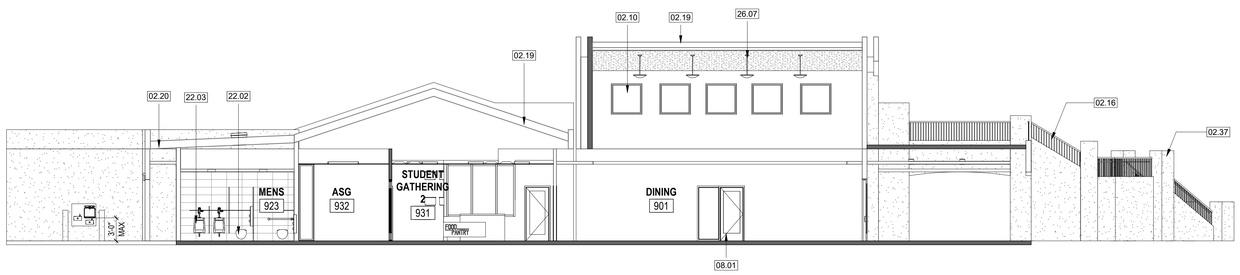
NUMBER	DESCRIPTION
02.10	(E) H.M. WINDOW
02.16	(E) GUARDRAIL, PAINT
02.19	(E) CLAY TILE ROOF TO REMAIN, PROTECT UNLESS NOTED OTHERWISE
02.20	(E) MEMBRANE ROOF OVER PLYWOOD SHEATHING TO REMAIN, PROTECT
02.37	(E) EXT CEMENT PLASTER, PAINT
06.04	RECEPTION DESK
08.01	H.M. DOOR AND FRAME
22.02	WATER CLOSET
22.03	URINAL
26.01	TV MONITOR (NIC). MOUNTING & BLOCKING (IC). SEE BLOCKING DETAIL 7 / A8.03
26.07	PENDANT LIGHT FIXTURE
26.08	RECESSED LIGHT FIXTURE



18 SECTION C
1/8" = 1'-0"



12 SECTION B
1/8" = 1'-0"



6 SECTION A
1/8" = 1'-0"

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BUILDING SECTIONS

A6.02

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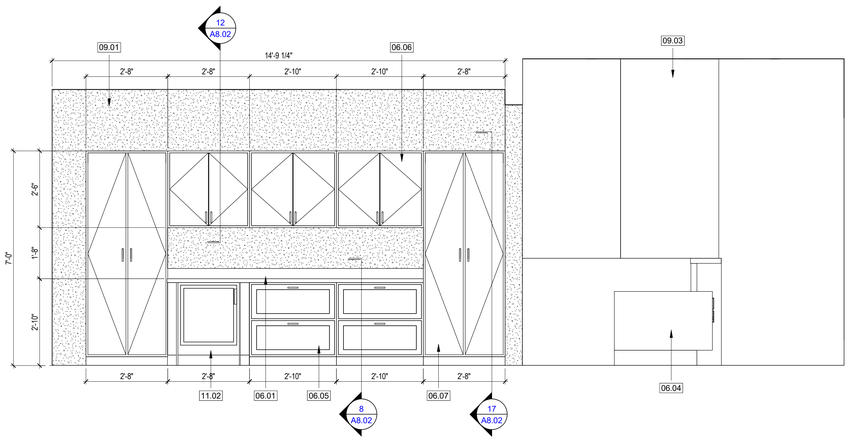
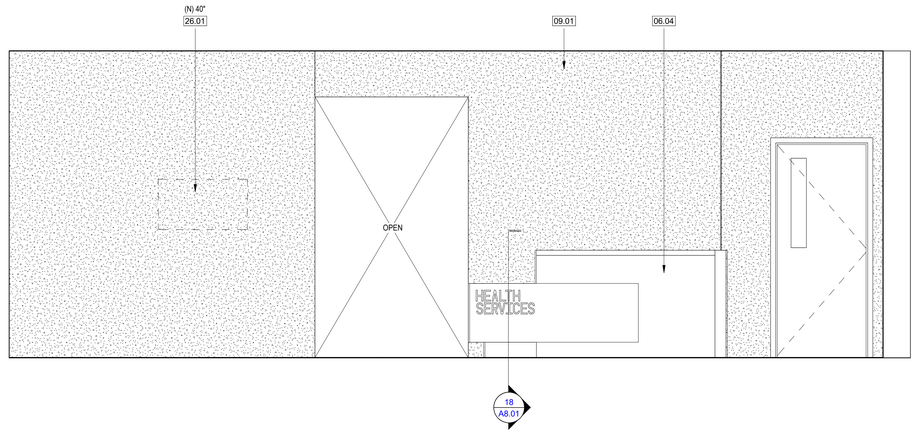
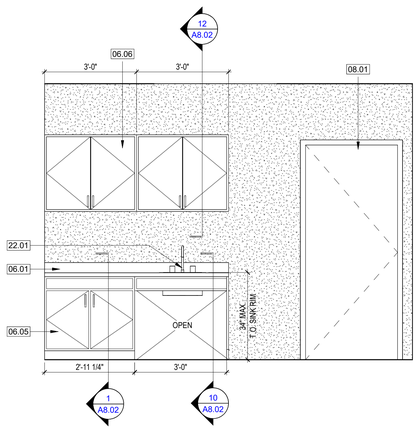


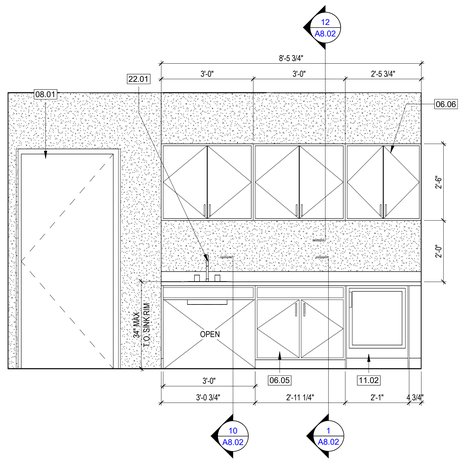
918-N 918/917 CIRCULATION NORTH



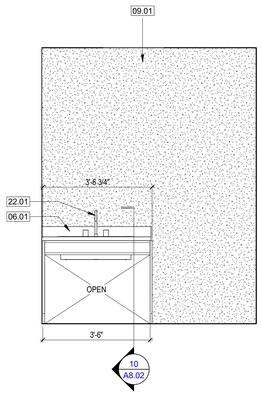
917-W 917 WAITING / RECEPTION WEST



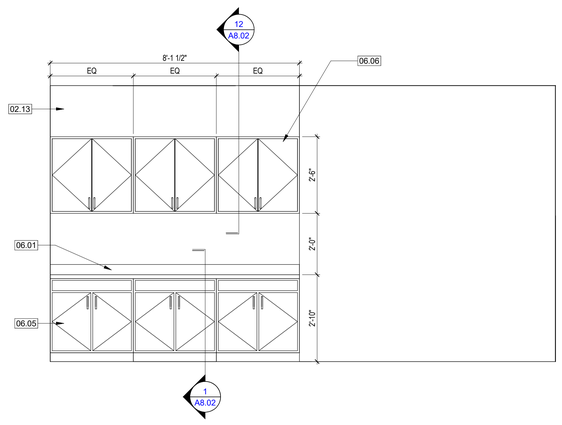
920-N 920 EXAM NORTH



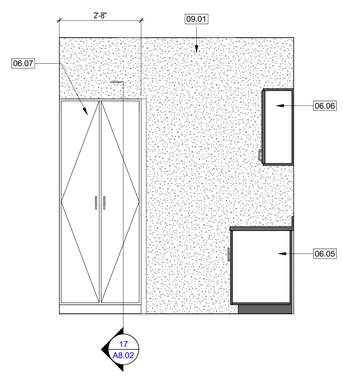
921-N 921 NURSE NORTH



928-W 928 LACTATION RM WEST



929-N 929 WR NORTH



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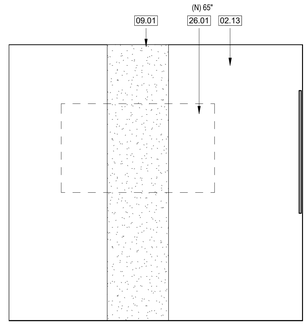

930-W 930 CONFERENCE ROOM 2 WEST

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02.13	(E) GYPSUM WALLBOARD, PAINT
06.01	P. LAM O/ PLYWOOD COUNTERTOP W/ BACKSPLASH
06.04	RECEPTION DESK
06.05	BASE CABINET
06.06	UPPER CABINET
06.07	FULL HEIGHT CABINET
08.01	H.M. DOOR AND FRAME
09.01	GYPSUM WALL BOARD
09.03	RESINOUS PANEL
11.02	REFRIGERATOR
22.01	SINK AND FAUCET
26.01	TV MONITOR (NIC). MOUNTING & BLOCKING (IC). SEE BLOCKING DETAIL 7 / A8.03

INTERIOR ELEVATION NOTES

1. SEE SHEET A9.01 FOR ROOM FINISH SCHEDULE
2. SEE SHEET A7.01 FOR WALL FINISH DETAILS
3. MATCH ADJACENT WALL FINISH WHERE A WALL SURFACE IS NOT ELEVATED.
4. WALL-MOUNTED TELEVISION MONITORS SHALL PROJECT NO MORE THAN 4 INCHES FROM WALL FACE IF NOT LOCATED ABOVE A COUNTER SURFACE
5. WALL BASE NOT SHOWN FOR CLARITY. SEE FINISH SCHEDULE FOR TYPE AND LOCATION.

CONSTRUCTION LEGEND

NEW GYPSUM WALL BOARD

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INTERIOR ELEVATIONS

A6.03

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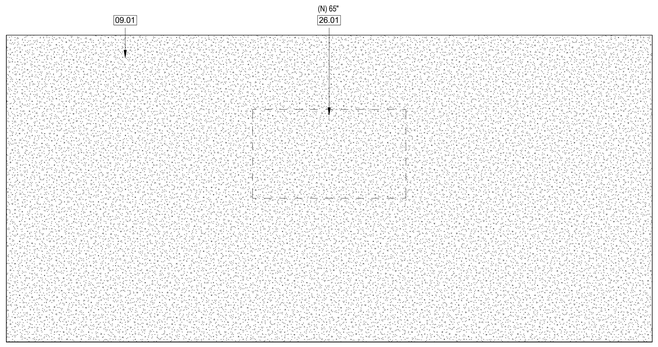
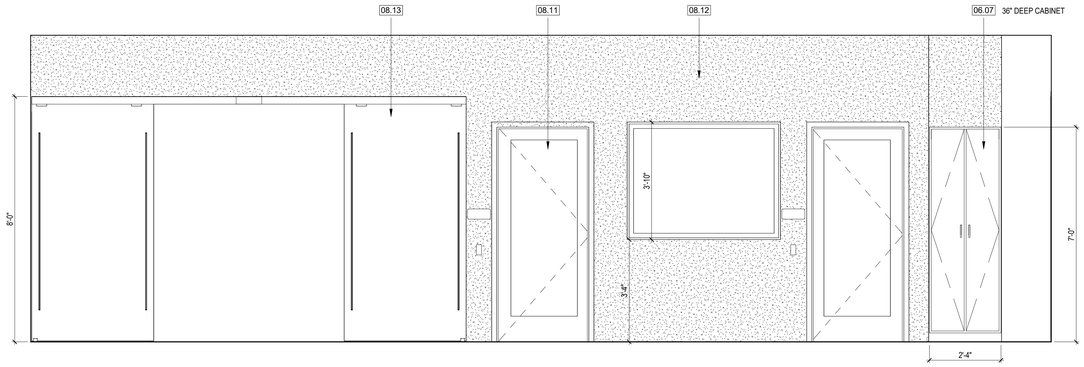
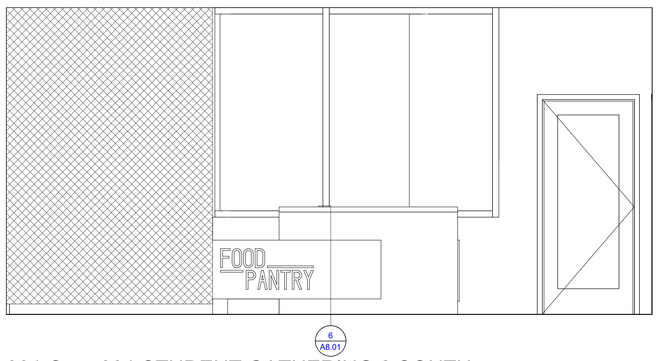
MM-20-020, SAN Building 400 & 900 Renovations ("Projects") – Prequalification Appendix Reference Documents



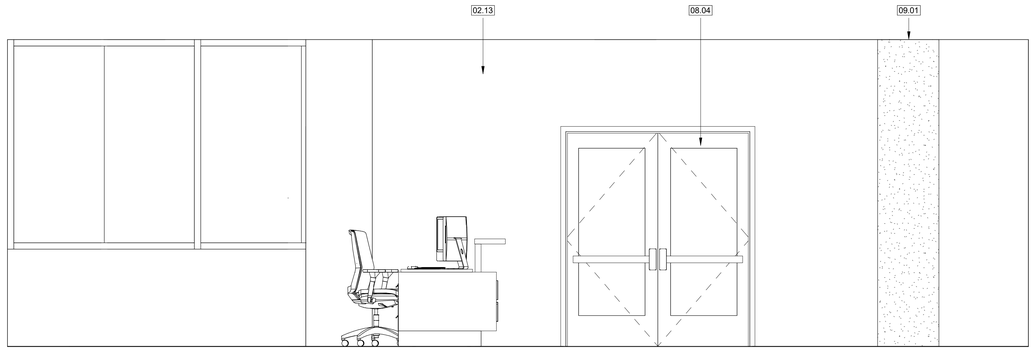
931-N 931 - STUDENT GATHERING 2 NORTH



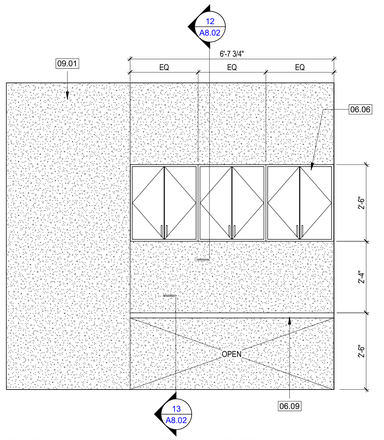
931-E 931 - STUDENT GATHERING 2 EAST



931-S 931 STUDENT GATHERING 2 SOUTH



931-W 931 - STUDENT GATHERING 2 WEST



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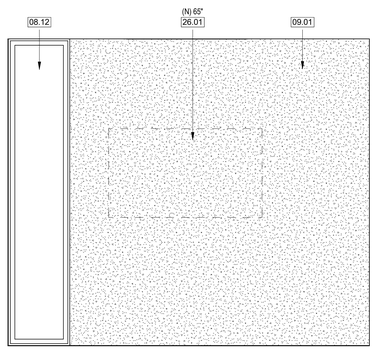
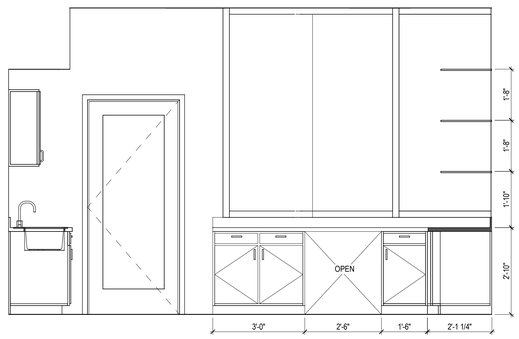
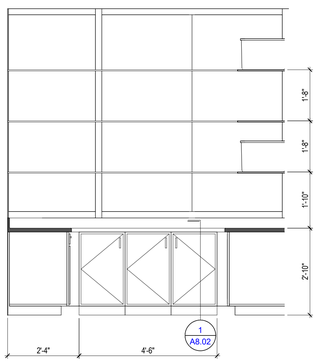


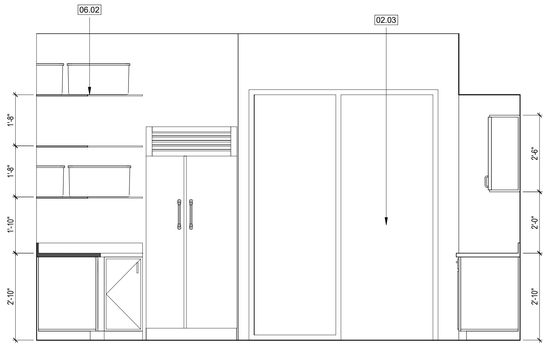
932-S 932 ASG SOUTH



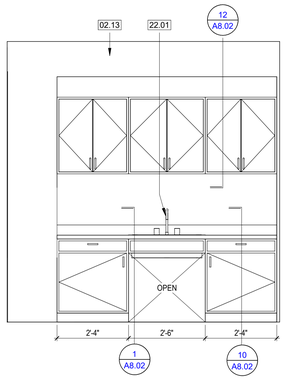
934-N 934 FOOD PANTRY NORTH



934-E 934 FOOD PANTRY EAST



934-S 934 FOOD PANTRY SOUTH



934-W 934 FOOD PANTRY WEST

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02.03	(E) DOOR AND FRAME
02.13	(E) GYPSUM WALLBOARD, PAINT
06.02	UPPER SHELF
06.06	UPPER CABINET
06.07	FULL HEIGHT CABINET
06.09	P. LAM O/ PLYWOOD COUNTERTOP
08.04	H.M. DOOR
08.11	ALUMINUM STOREFRONT DOOR
08.12	ALUMINUM STOREFRONT WINDOW
08.13	ALUMINUM FRAMED SLIDING GLASS DOORS
09.01	GYPSUM WALL BOARD
22.01	SINK AND FAUCET
26.01	TV MONITOR (NIC). MOUNTING & BLOCKING (IC). SEE BLOCKING DETAIL 7 / A8.03

INTERIOR ELEVATION NOTES

1. SEE SHEET A9.01 FOR ROOM FINISH SCHEDULE
2. SEE SHEET A7.01 FOR WALL FINISH DETAILS
3. MATCH ADJACENT WALL FINISH WHERE A WALL SURFACE IS NOT ELEVATED.
4. WALL-MOUNTED TELEVISION MONITORS SHALL PROJECT NO MORE THAN 4 INCHES FROM WALL FACE IF NOT LOCATED ABOVE A COUNTER SURFACE
5. WALL BASE NOT SHOWN FOR CLARITY. SEE FINISH SCHEDULE FOR TYPE AND LOCATION.

CONSTRUCTION LEGEND

NEW GYPSUM WALL BOARD

TACKABLE WALL SURFACE

DSA FILE NO. 37-C2 A# 04-119576

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

3333 Manchester Ave, Cardiff, CA 92007

DSA SUBMITTAL

MIRACOSTA COLLEGE

CONSULTANT

ENGINEER

ARCHITECT

LICENSED ARCHITECT
Mark A. Eacret
No. C-28195
REN. 5-31-2021
STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER 20151

DATE: 11/12/2020
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CHECKED BY: Checker

REVISIONS

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INTERIOR ELEVATIONS

A6.04

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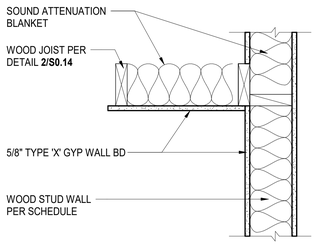
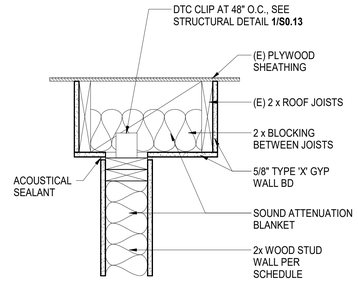
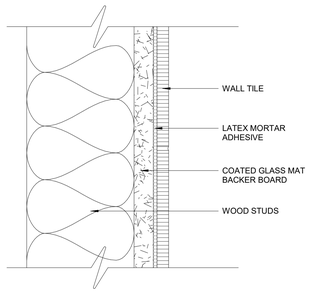


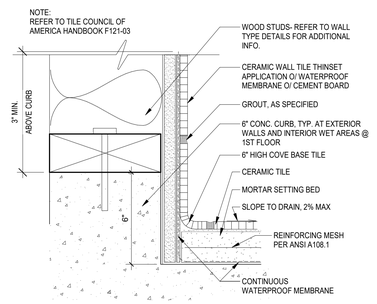
29 GYPSUM WALL BD CEILING
1 1/2" = 1'-0"



28 TOP OF WALL FRAMING
1 1/2" = 1'-0"

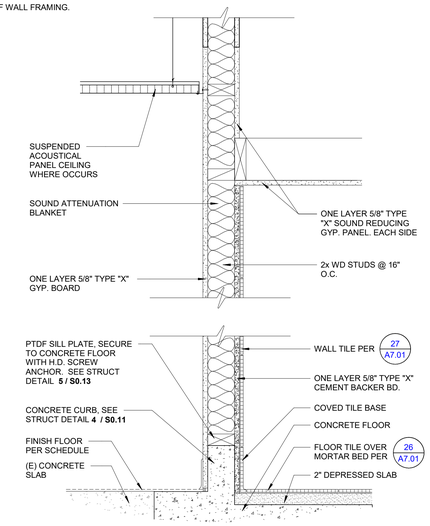


27 THIN-SET WALL TILE
6" = 1'-0"



26 RESTROOM TILE OVER MORTAR BED
3" = 1'-0"

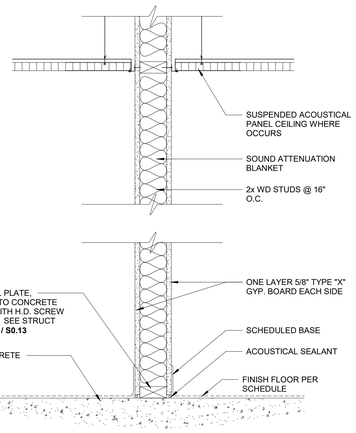
NOTE:
1. SEE DETAIL 28/A7.01 FOR TOP OF WALL FRAMING.



TYPE	FIRE RAT'G	DESCRIPTION	STC / FIRE RATING
NF4	NONE	2X4 WOOD STUDS	38 / NA
NF6	NONE	2X6 WOOD STUDS	38 / NA
NF4*	NONE	2X4 WOOD STUDS	38 / UL 305
NF6*	NONE	2X6 WOOD STUDS	38 / UL 305

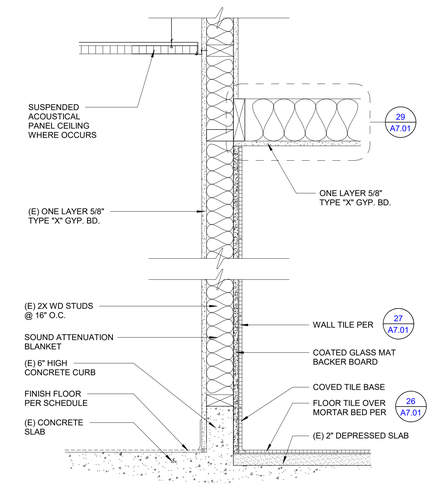
18 WALL TYPE F
1 1/2" = 1'-0"

NOTE:
1. SEE DETAIL 28/A7.01 FOR TOP OF WALL FRAMING.



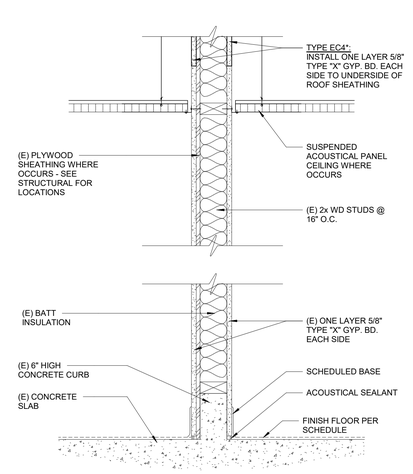
TYPE	FIRE RAT'G	DESCRIPTION	STC RATING
NE4	NONE	2X4 WOOD STUDS	54 PER REPORT OL 11-0320
NE6	NONE	2X6 WOOD STUDS	54 PER REPORT OL 11-0320

16 WALL TYPE E
1 1/2" = 1'-0"



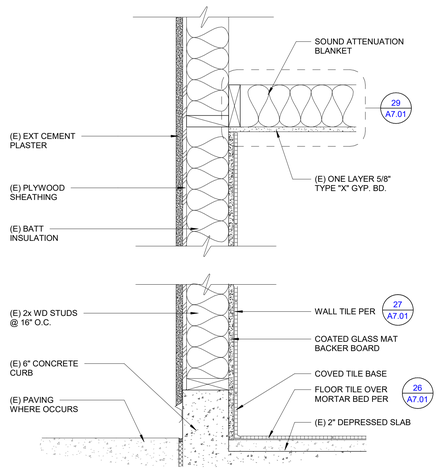
TYPE	FIRE RAT'G	DESCRIPTION	STC RATING
ED4	NONE	(E) 2X4 WOOD STUDS	36 APPOX
ED6	NONE	(E) 2X6 WOOD STUDS	38 APPOX

14 WALL TYPE D
1 1/2" = 1'-0"



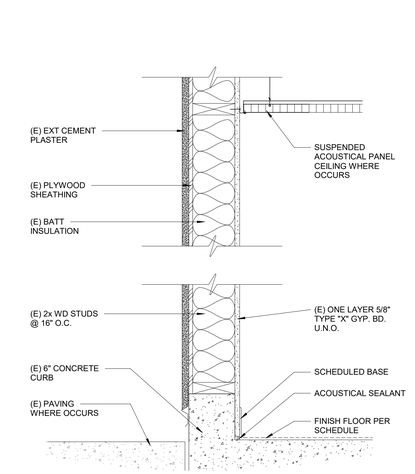
TYPE	FIRE RAT'G	DESCRIPTION	STC / FIRE RATING
EC4	NONE	(E) 2X4 WOOD STUDS WITH 6" CURB	36 APPOX / N/A
EC6	NONE	(E) 2X6 WOOD STUDS WITH 6" CURB	36 APPOX / N/A
EC8	NONE	(E) 2X8 WOOD STUDS WITH 6" CURB	36 APPOX / N/A
EC6*	NONE	(E) 2X6 WOOD STUDS WITHOUT CURB	36 APPOX / N/A
EC4*	1 HR FIRE RATING	(E) 2X4 WOOD STUDS WITHOUT CURB	38 APPOX / UL 305

6 WALL TYPE C
1 1/2" = 1'-0"



TYPE	FIRE RAT'G	DESCRIPTION	STC RATING
EB6	NONE	(E) 2X6 WOOD STUDS	N/A

4 WALL TYPE B
1 1/2" = 1'-0"



TYPE	FIRE RAT'G	DESCRIPTION	STC RATING
EA4	NONE	(E) 2X4 WOOD STUDS	N/A
EA6	NONE	(E) 2X6 WOOD STUDS	N/A
EA8	NONE	(E) 2X8 WOOD STUDS	N/A

2 WALL TYPE A
1 1/2" = 1'-0"

DSA FILE NO. 37-C2 A# 04-119576

PBK

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LICENSED ARCHITECT Mark A. Eacret No. C-28195 REN. 5.31.2021 STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER 20151
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WALL TYPES AND DETAILS

A7.01

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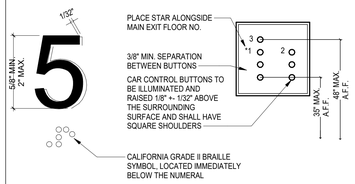
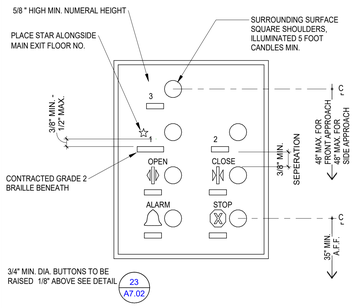


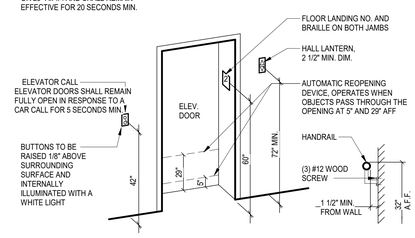
NOTES:
LETTERS AND NUMBERS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF TYPE AND SHALL BE ACCOMPANIED WITH CALIFORNIA GRADE II BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2" AND BE WHITE ON A BLACK BACKGROUND. FOR MORE INFO SEE **6&12/A10.11**

23 ELEVATOR CONTROL PANEL DETAIL
1 1/2" = 1'-0"

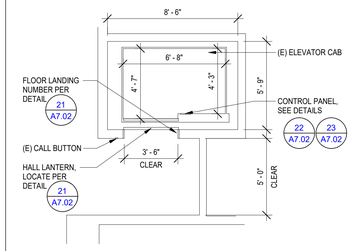


22 ELEVATOR CONTROL PANEL
3" = 1'-0"

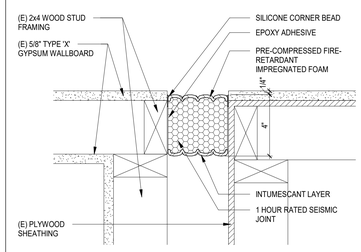
NOTE:
THE AUTOMATIC DOOR OPENING DEVICE IS TO BE ACTIVATED WHEN OBJECTS PASS THROUGH THE DOOR AT EITHER 5" OR 29" A.F.F. AND SHALL REMAIN EFFECTIVE FOR 20 SECONDS MIN.



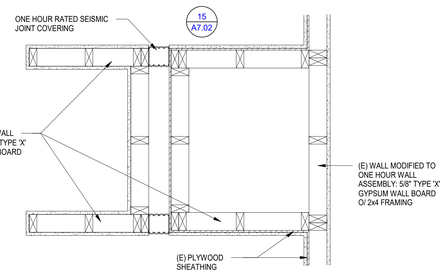
21 ELEVATOR ACCESS DIMENSIONS
1" = 1'-0"



19 (E) ELEVATOR PLAN
1/4" = 1'-0"

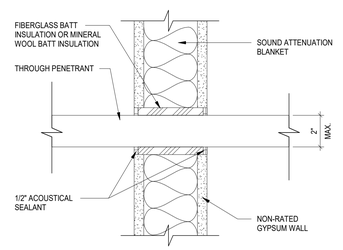


15 1 HR RATED SEISMIC JOINT COVERING
3" = 1'-0"

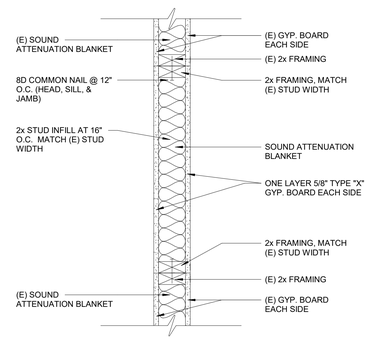


14 (E) ONE HOUR RATED ASSEMBLY
1" = 1'-0"

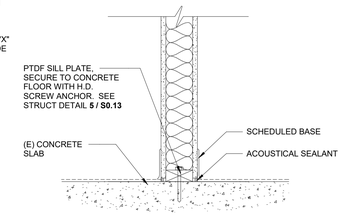
NOTE:
1. PENETRATION RATED AT STC 63



3 AC SEALANT AND THRU PENETRATION
3" = 1'-0"



TYPICAL WINDOW AND DOOR HEADER INFILL



TYPICAL DOOR SILL INFILL

2 TYPICAL DOOR & WINDOW INFILL
1 1/2" = 1'-0"

DSA FILE NO. 37-C2 A# 04-119576

PBK
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REN. 5-31-2021
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PROJECT NUMBER 20151
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CHECKED BY: Checker
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WALL DETAILS

A7.02

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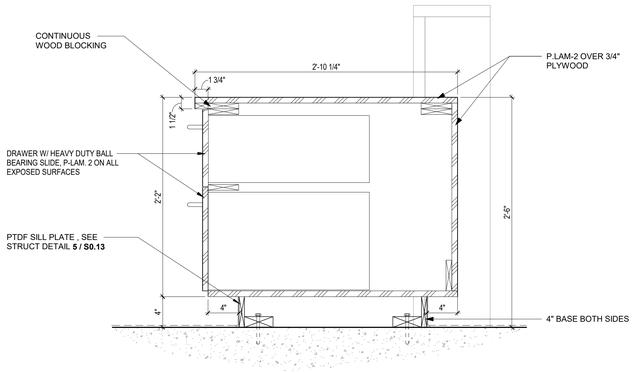
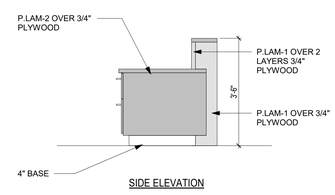
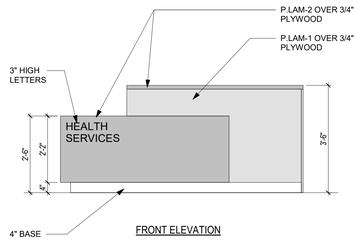


18 H.S. RECEPTION DESK SECTION
1 1/2" = 1'-0"



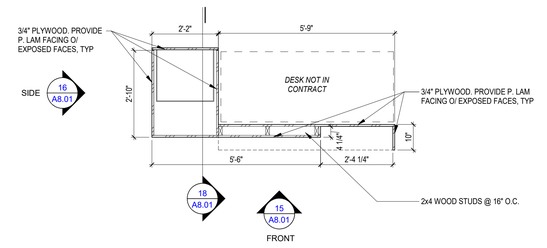
SIDE ELEVATION

16 H.S. RECEPTION DESK SIDE ELEVATION
1/2" = 1'-0"

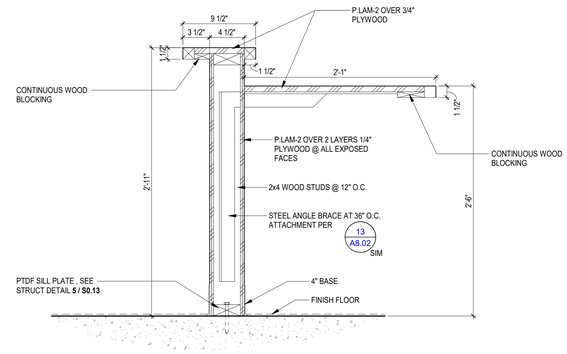


FRONT ELEVATION

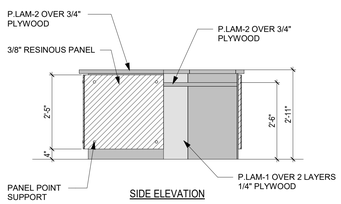
15 H.S. RECEPTION DESK FRONT ELEVATION
1/2" = 1'-0"



14 HEALTH SERVICES RECEPTION DESK PLAN
1/2" = 1'-0"

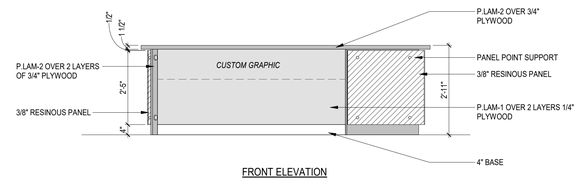


6 STUDENT STAFF DESK SECTION
1 1/2" = 1'-0"



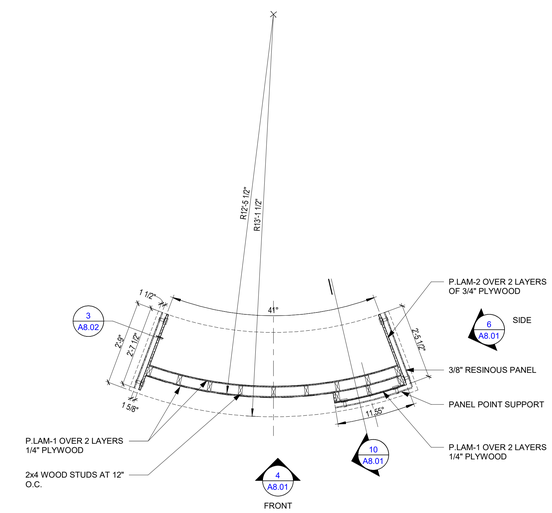
SIDE ELEVATION

10 STUDENT STAFF DESK SIDE ELEVATION
1/2" = 1'-0"



FRONT ELEVATION

4 STUDENT STAFF DESK FRONT ELEVATION
1/2" = 1'-0"



2 STUDENT STAFF DESK PLAN
1/2" = 1'-0"

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CASEWORK PLANS AND DETAILS

A8.01

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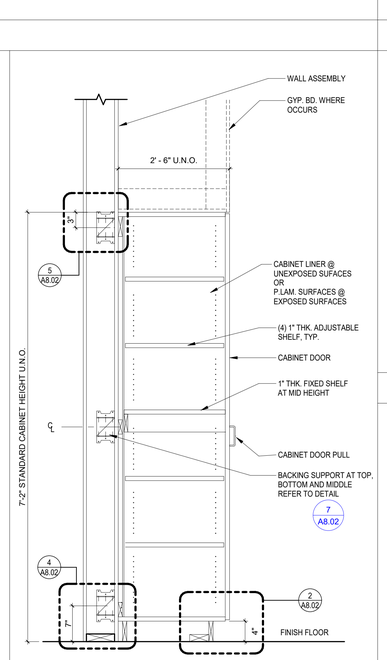
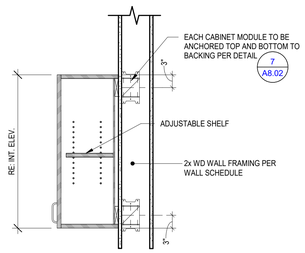


NOTES:
1. EACH MODULE SHALL BE ATTACHED TO THE ADJACENT UNIT WITH A MINIMUM OF (3) EACH #10 x 1 1/4" COUNTER SUNK WOOD SCREWS AT TOP, CENTER, AND BOTTOM
2. ACTUAL CASEWORK CONSTRUCTION PER W.I. STANDARDS AS SPECIFIED

17 FULL HEIGHT CABINET
1" = 1'-0"



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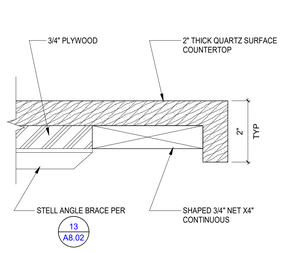
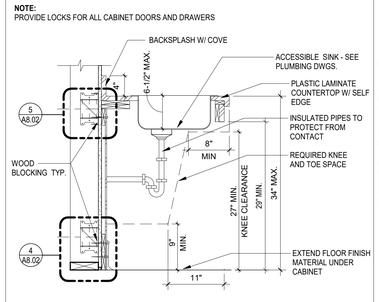
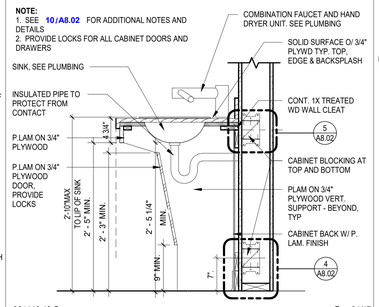
12 UPPER CABINET
1" = 1'-0"



11 PLASTIC LAMINATE COUNTERTOP EDGE
6" = 1'-0"

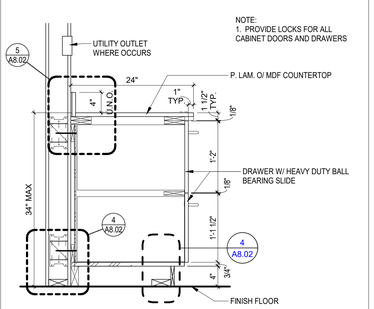


10 ACCESSIBLE SINK BASE CABINET DETAIL
1" = 1'-0"

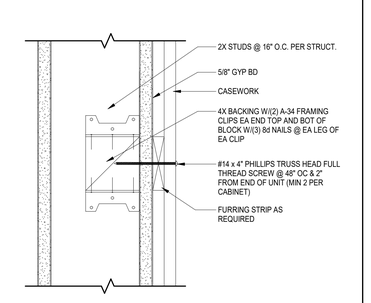


064116.10-S Rev 04/17

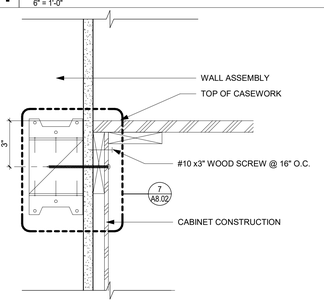
9 LAVORATORY SINK CABINET
1" = 1'-0"



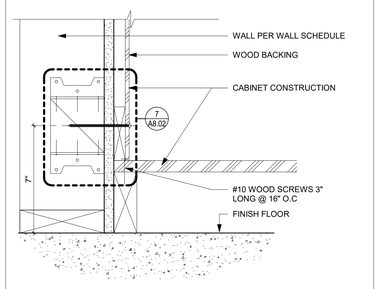
8 BASE CABINET W/ 2 FILING DRAWERS
1" = 1'-0"



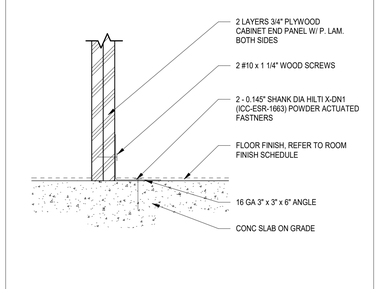
7 CASEWORK BACKING @ WD STUD WALL
3" = 1'-0"



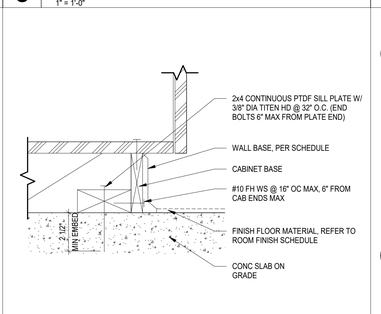
5 CASEWORK ATTACHED TO WALL (TOP)
3" = 1'-0"



4 CASEWORK ATTACHED TO STUD WALL
3" = 1'-0"

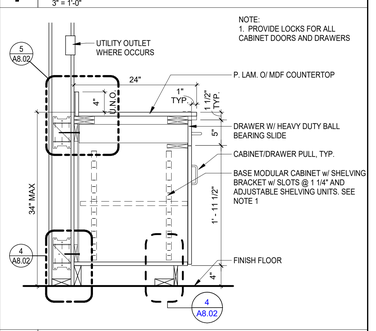


3 DESK PANEL ANCHORAGE
3" = 1'-0"



064116.01-S Rev 09/16

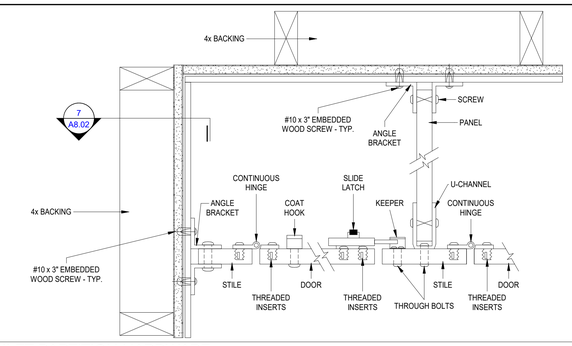
2 BASE CABINET ANCHORAGE
3" = 1'-0"



1 BASE CABINET W/ DRAWER
1" = 1'-0"

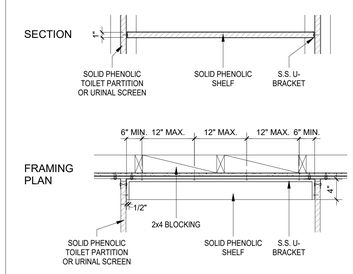
NOTES:
1. EACH MODULE SHALL BE ATTACHED TO THE ADJACENT UNIT WITH A MINIMUM OF (3) EACH #10 x 1 1/4" COUNTER SUNK WOOD SCREWS AT TOP, CENTER, AND BOTTOM
2. ACTUAL CASEWORK CONSTRUCTION PER W.I. STANDARDS AS SPECIFIED

17 FULL HEIGHT CABINET
1" = 1'-0"

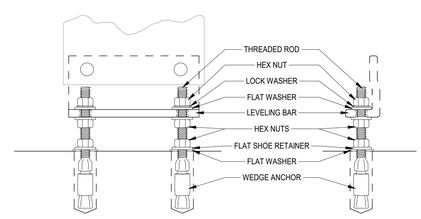


26 TOILET PARTITION HARDWARE
3" = 1'-0"

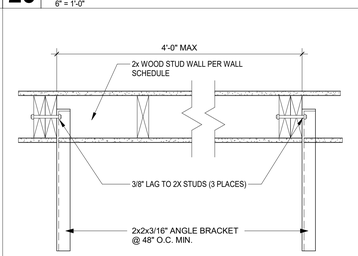
SIM. CONDITION - FRAMED WALL 2 SIDES, PROVIDE BLOCKING IN BOTH WALLS



21 SOLID PHENOLIC SHELF
1" = 1'-0"

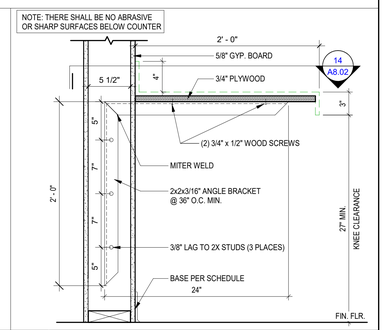


20 TOILET PARTITION FLOOR LEVELING
6" = 1'-0"



NOTES:
1. VERIFY ALL DIMENSION WITH CASEWORK SHOP DWGS PRIOR TO FABRICATION, CONSTRUCTION OR INSTALLATION
2. COUNTERTOP NOT SHOWN FOR CLARITY

14 CASEWORK SUPPORT - PLAN
1 1/2" = 1'-0"



13 COUNTERTOP BRACKET - SECTION
1 1/2" = 1'-0"

DSA FILE NO. 37-C2 A# 04-119030

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION
3333 Manchester Ave, Cardiff, CA 92007

DSA SUBMITTAL

MiraCosta College

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ENGINEER

ARCHITECT

LICENSED ARCHITECT Mark A. Eacret No. C-28195 REN. 5-31-2021 STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
20151

DATE: 11/12/2020
DRAWN BY: Author
CHECKED BY: Checker
REVISIONS

No.	Description	Date

DSA SUBMITTAL

CASEWORK DETAILS

A8.02

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FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR		BASE MATERIAL	NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING		COMMENTS
		MATERIAL	FINISH		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINSIH	MATERIAL	FINISH	MATERIAL	FINISH	
913	COUNSELING 1	CP	FA	TS	(E) GYP	PE	(E) GYP	PE	(E) GYP / GYP	PE	(E) GYP	PE	SAPC	FA	
916	COUNSELING 2	CP	FA	TS	(E) GYP	PE	GYP	PE	GYP	PE	(E) GYP / GYP	PE	SAPC	FA	
917	WAITING / RECEPTION	LVT	FA	TS	GYP	PE / FA	(E) GYP	PE	GYP	PE	GYP	PE	SAPC	FA	
918	CIRCULATION	LVT	FA	TS	GYP	PE	N/A	N/A	GYP	PE	GYP	PE	SAPC	FA	
919	H.S. TOILET	PT-1	SL	PT-1	PT-2	SL	PT-2	SL	PT-2	SL	PT-2	SL	GYP	PE	
920	EXAM	LVT	FA	TS	GYP	PE	GYP	PE	GYP	PE	(E) GYP	PE	SAPC	FA	
921	NURSE	LVT	FA	TS	GYP	PE	GYP	PE	GYP	PE	GYP	PE	SAPC	FA	
922	MECHANICAL	(E) CONC	SL	N/A	(E) GYP	(E) PE	(E) GYP	PE	(E) GYP	PE	(E) GYP	PE	SAPC	FA	
923	MENS	PT-1	SL	PT-1	PT-2	SL	PT-2	SL	PT-2	SL	PT-2	SL	(E) GYP	PE	
924	WOMENS	PT-1	SL	PT-1	PT-2	SL	PT-2	SL	PT-2	SL	PT-2	SL	(E) GYP	PE	
925	G.N. TOILET	PT-1	SL	PT-1	PT-2	SL	PT-2	SL	PT-2	SL	PT-2	SL	(E) GYP	PE	
926	VESTIBULE	LVT	FA	TS	(E) GYP	PE	(E) GYP	PE	GYP	PE	(E) GYP / GYP	PE	GYP	PE	
927	CUSTODIAL														
928	LACTATION ROOM	LVT	FA	TS	GYP	PE	(E) GYP	PE	(E) GYP	PE	GYP	PE	SAPC	FA	
929	WORKROOM	CONC	SL	TS	(E) GYP	PE	GYP	PE	(E) GYP	PE	GYP	PE	SAPC	FA	
930	CONFERENCE 2	CP	FA	TS	(E) GYP	PE	(E) GYP / GYP	PE	(E) GYP	PE	(E) GYP	PE	SAPC	FA	
931	STUDENT GATHERING 2	LVT	FA	TS	GYP	PE	GYP	PE / FA	TK	FA / FA	(E) GYP / GYP	PE / FA	SAPC	FA	
932	ASG	LVT	FA	TS	GYP	PE	(E) GYP	PE	GYP	PE	GYP	PE / FA	SAPC	FA	
933	OFFICE 1	CP	FA	TS	GYP	PE	(E) GYP	PE	GYP	PE	GYP	PE / FA	SAPC	FA	

19

LEGEND

MATERIALS

FLOOR

CP	CARPET
PT-1	PORCELAIN TILE
CONC	CONCRETE
LVT	LUXURY VINYL TILE

BASE

PT-1	PORCELAIN TILE
TS	TOP SET BASE

WALL

PT-2	PORCELAIN TILE
GYP	GYPSUM WALLBOARD
TK	TACKABLE SURFACE
FRP	FIBER REINFORCED PANEL

CEILING

GYP	GYPSUM WALLBOARD
SAPC	SUSPENDED ACOUSTIC PANEL CEILING
WD	WOOD BATTENS

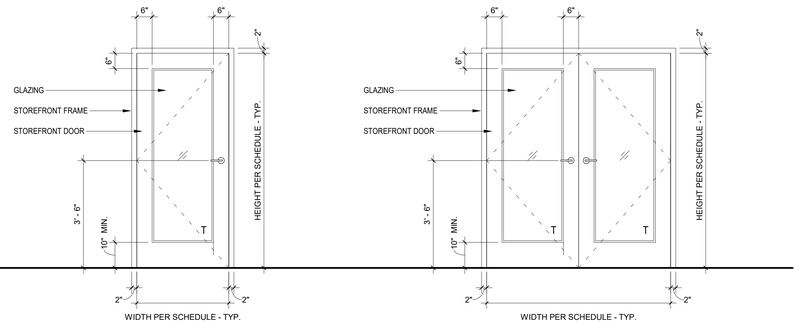
FINISHES

FA	FACTORY
SL	SEALER
PE	PAINT - EGGSHELL
(E)	EXISTING
N/A	NOT APPLICABLE

COMMENTS

1. NEW GYPSUM WALLBOARD INFILL
2. 4'-0" HIGH FRP WAINSCOT
3. SEE SHEET A2.03, INTERIOR COLOR CHART FOR COLOR SELECTION

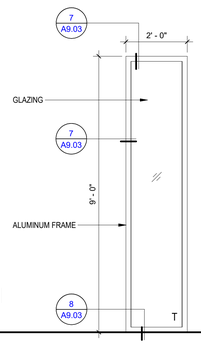
EXTERIOR STOREFRONT DOOR TYPES



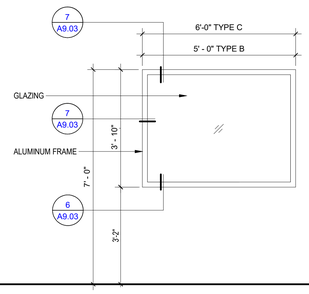
SF-1

SF-2

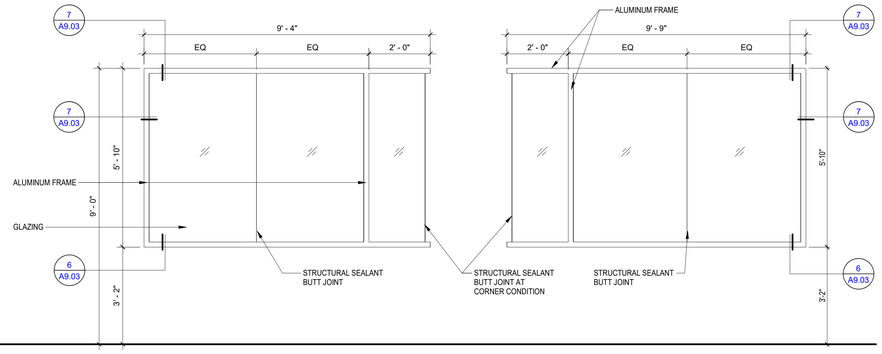
INTERIOR ALUMINUM FRAMED WINDOW TYPES



A



B C



D E

GENERAL FINISH NOTES

1. ALL MATERIALS AND FINISHES ARE NEW UNLESS NOTED AS EXISTING (E)
2. ALL TOP SET (TS) BASE HAS A FACTORY FINISH

WINDOW SCHEDULE NOTES

1. FOR TYPICAL SYMBOL AND ABBREVIATIONS, REFER TO SHEET **G0.01**.
2. WINDOW SCHEDULE DIMENSIONS INDICATE FRAME DIMENSIONS. CONTRACTOR SHALL FIELD VERIFY AND MEASURE ALL OPENINGS PRIOR TO FABRICATION.
3. REFER TO SPEC. SECTION **08 80 00** FOR EXTERIOR & INTERIOR GLAZING TYPES.
4. WINDOW TYPES A, B & D HAVE DUAL ROLLER SHADES ABOVE.
5. REFER TO FLOOR PLAN ON SHEET A2.02 FOR BASE-BID VS. ADDITIONAL ALTERNATE WINDOW UNITS

WINDOW SCHEDULE LEGEND

1" INSULATED GLAZING OUTBOARD LIGHT SOLAR BRONZE
(WARM-BRONZE) INBOARD LIGHT SOLARBAN 60.
MANUFACTURER: PPG INDUSTRIES
THERMAL TRASMITTANCE: U-VALUE: 0.29
SOLAR HEAT GAIN COEFFICIENT: 0.32

A — DENOTES WINDOW TYPE

1 — DENOTES DOOR AND FRAME TYPE

T — DENOTES TEMPERED GLASS

DSA FILE NO. 37-C2 A# 04-119576

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION
3333 Manchester Ave, Cardiff, CA 92007

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LICENSED ARCHITECT
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No. C-28195
REN. 5-31-2021
STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER 20151
DATE: 11/12/2020
DRAWN BY: Author
CHECKED BY: Checker

REVISIONS

No.	Description	Date

DSA SUBMITTAL

FINISH AND STOREFRONT SCHEDULE

A9.01

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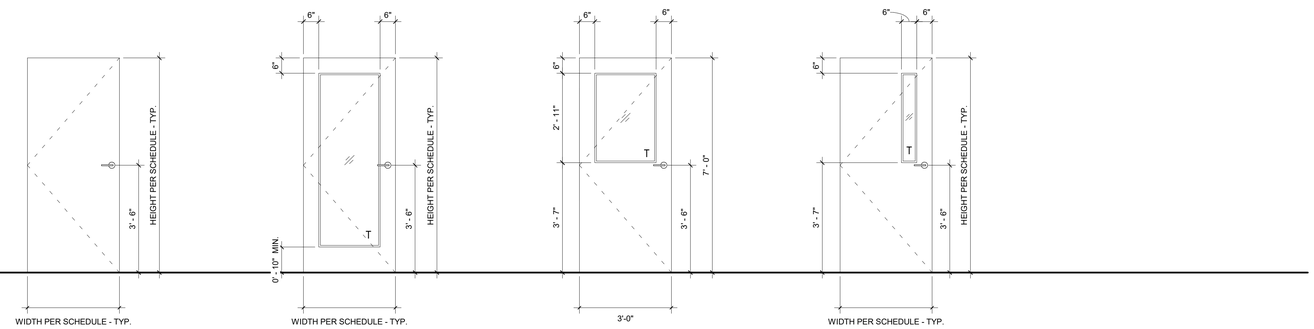
DOOR SCHEDULE

DOOR SCHEDULE																	
DOOR #	LOCATION	TYPE	PHASE CREATED	DOOR					FRAME			THRESHOLD	JAMB	HEAD	HARDWARE SET	PANIC HARDWARE	FIRE RATING	COMMENTS
				PAIR / SINGLE	SIZE		MATERIAL	FINISH	TYPE	MATERIAL	FINISH							
					WIDTH	HEIGHT												
901-A	901-Dining	(E) SF-2	Existing	P	6'-0"	8'-0"	(E) AL / GL	(E) FA	(E) SF-2	(E) AL	(E) FA	-	-	-	14	YES	NON RATED	
901-B	901-Dining	(E) SF-2	Existing	P	6'-0"	8'-0"	(E) AL / GL	(E) FA	(E) SF-2	(E) AL	(E) FA	-	-	-	14	YES	NON RATED	
905	905 - Equip	(E) F	Existing	S	3'-0"	8'-0"	(E) HM	PS	(E) HM-1	(E) HM	PS	-	-	-	11B	NO	NON RATED	
906-A	906 - Kitchen	(E) F	Existing	S	3'-0"	7'-0"	(E) HM	PS	(E) HM-1	(E) HM	PS	-	-	-	-	NO	NON RATED	
907-A	907 - Prep Area	(E) F	Existing	S	3'-0"	7'-0"	(E) HM	PS	(E) HM-1	(E) HM	PS	-	-	-	-	NO	NON RATED	
907-B	907 - Prep Area	(E) F	Existing	S	3'-0"	7'-0"	(E) HM	PS	(E) HM-1	(E) HM	PS	-	-	-	-	NO	NON RATED	
908	908 - Storage	(E) F	Existing	S	3'-0"	7'-0"	(E) HM	PS	(E) HM-1	(E) HM	PS	-	-	-	11A	NO	NON RATED	
909	909 - Dry Storage	(E) F	Existing	S	3'-0"	7'-0"	(E) HM	PS	(E) HM-1	(E) HM	PS	-	-	-	11A	NO	NON RATED	
910	910 - Janitor	(E) F	Existing	S	3'-0"	7'-0"	(E) HM	PS	(E) HM-1	(E) HM	PS	-	-	-	11A	NO	NON RATED	
912	912 - Cold Storage	(E) F	Existing	S	3'-6"	8'-0"	(E) HM	PS	(E) HM-1	(E) HM	PS	-	-	-	11	NO	NON RATED	
914-A	914 - Counseling 1	HG	New Construction	P	3'-0"	8'-0"	HM / GL	PE	(E) HM-2	(E) HM	PE	15/A9.04	-	-	1	NO	NON RATED	2
914-B	914 - Counseling 1	NL	New Construction	S	3'-0"	7'-0"	HM	PE	HM-1	HM	PE	21/A9.04	19/A9.04	19/A9.04	2	NO	NON RATED	
915	915 - Elec	F	Existing	S	3'-0"	8'-0"	(E) HM	PE	(E) HM-1	(E) HM	PE	-	-	-	11	NO	NON RATED	
916	916 - Counseling 2	NL	New Construction	S	3'-0"	7'-0"	HM	PE	HM-1	HM	PE	21/A9.04	19/A9.04	19/A9.04	4	NO	NON RATED	
917	917 - Waiting / Reception	(E) SF-2	Existing	P	6'-0"	8'-0"	(E) AL / GL	(E) FA	(E) SF-2	(E) AL	(E) FA	-	-	-	01A	NO	NON RATED	
919	919 - Health Services Toilet	F	New Construction	S	3'-0"	7'-0"	HM	PE	HM-1	HM	PE	22/A9.04	19/A9.04	19/A9.04	3	NO	NON RATED	3
920	920 - Exam Room	F	New Construction	S	3'-0"	7'-0"	HM	PE	HM-1	HM	PE	-	19/A9.04	19/A9.04	4	NO	NON RATED	
921	920 - Nurse Room	F	New Construction	S	3'-0"	7'-0"	HM	PE	HM-1	HM	PE	-	19/A9.04	19/A9.04	4	NO	NON RATED	
922	922 - Mechanical	F	Existing	S	3'-0"	8'-0"	(E) HM	PS	(E) HM-1	(E) HM	PS	15/A9.04	-	-	11	NO	NON RATED	
923	923 - Men's Toilet	F	New Construction	S	3'-0"	8'-0"	HM	PS	HM-1	HM	PS	18/A9.04	17&14/A9.04	16/A9.04	5	NO	NON RATED	1
924	924 - Women's Toilet	F	New Construction	S	3'-0"	8'-0"	HM	PS	HM-1	HM	PS	18/A9.04	17&14/A9.04	16/A9.04	5	NO	NON RATED	1
925	925 - Gender Neutral Toilet	F	New Construction	S	3'-0"	7'-0"	HM	PE	HM-1	HM	PE	15/A9.04	20/A9.04	20/A9.04	03B	NO	NON RATED	3
927	927 - Custodial	(E) F	Existing	S	3'-0"	7'-0"	(E) HM	PS	(E) HM-1	(E) HM	PS	-	-	-	-	NO	NON RATED	
928	928 - Lactation Room	F	New Construction	S	3'-0"	7'-0"	HM	PE	HM-1	HM	PE	-	19/A9.04	19/A9.04	3	NO	NON RATED	
929	929 - Storage / Workroom	(E) SF-1	Existing	S	3'-0"	8'-0"	(E) AL / GL	(E) FA	(E) SF-1	(E) AL	(E) FA	15/A9.04	-	-	12	NO	NON RATED	
930	930 - Conference 2	SF-1	New Construction	S	3'-0"	8'-0"	AL / GL	AN	SF-1	AL	FA	15/A9.04	17/A9.04	16/A9.04	7	NO	NON RATED	2
931-A	931 - Student Gathering	HG	New Construction	P	3'-0"	7'-0"	HM / GL	PE	HM-2	HM	PE	15/A9.04	19/A9.04	19/A9.04	01B	YES	1 HOUR RATED	
931-B	931 - Student Gathering	(E) SF-1	Existing	S	3'-0"	8'-0"	(E) AL / GL	(E) FA	(E) SF-1	(E) AL	(E) FA	-	-	-	13	YES	NON RATED	2
932	932 - ASG	FG	New Construction	S	3'-0"	7'-0"	(E) HM / GL	PE	HM-1	HM	PE	-	19/A9.04	19/A9.04	9	NO	NON RATED	
933	933 - OFFICE 1	FG	New Construction	S	3'-0"	7'-0"	HM / GL	PE	HM-1	HM	PE	-	19/A9.04	19/A9.04	4	NO	NON RATED	
934-A	934 - Food Pantry	SF-1	New Construction	S	3'-0"	7'-0"	AL / GL	FA	HM-1	(E) HM	PE	10/A9.04	9/A9.04	9/A9.04	04A	NO	NON RATED	
934-B	934 - Food Pantry	(E) SF-1	Existing	S	3'-0"	8'-0"	(E) AL / GL	FA	(E) SF-1	(E) AL	(E) FA	15/A9.04	4/A9.04	2/A9.04	13	NO	NON RATED	2
935	935 - Shared Student Office	(E) F	Existing	S	3'-0"	7'-0"	(E) HM / GL	PE	(E) HM-1	(E) HM	PE	-	-	-	11A	NO	NON RATED	
936	936 - Office 2	(E) F	Existing	S	3'-0"	7'-0"	(E) HM / GL	PE	(E) HM-1	(E) HM	PE	-	-	-	11A	NO	NON RATED	
937	937 - Student Staff	FGW	New Construction	S	3'-0"	7'-0"	HM / GL	PE	(E) HM-1	(E) HM	PS	-	-	-	04A	NO	NON RATED	
938	938 - Student Gathering 1	(E) F	Existing	S	3'-0"	7'-0"	(E) HM / GL	PE	(E) HM-1	(E) HM	PE	-	-	-	11A	NO	NON RATED	

H.M. DOOR TYPES



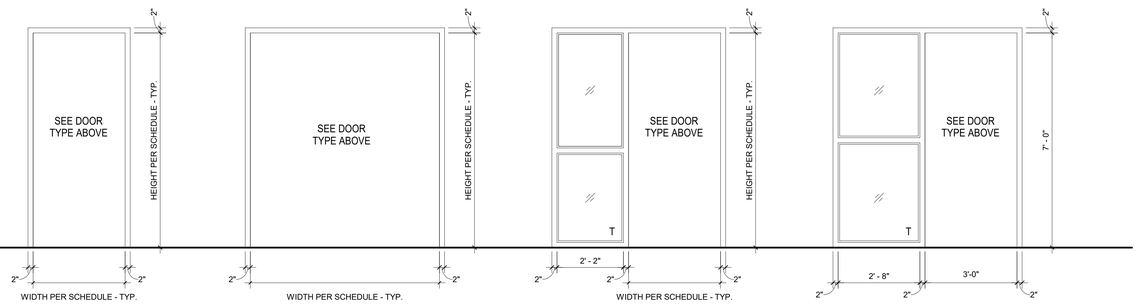
FLUSH
F

FULL GLASS WIDE
FGW

HALF GLASS
HG

NARROW LITE
NL

H.M. DOOR FRAME TYPES



HM-1

HM-2

HM-3

HM-4

LEGEND

DOOR TYPES

F	FLUSH
FGN	FULL GLASS NARROW
FGW	FULL GLASS WIDE
HG	HALF GLASS
NL	NARROW LITE
SF	STOREFRONT (SEE SHEET A9.01)

FRAME TYPES

HM	HOLLOW METAL
SF	STOREFRONT (SEE SHEET A9.01)

DOOR / FRAME MATERIAL

AL	ALUMINUM
GL	GLASS
HM	HOLLOW METAL

DOOR / FRAME FINISH

AN	ANODIZED
FA	FACTORY FINISH
PE	PAINT - EGGSHELL
PS	PAINT - SEMI GLOSS
PH	PANIC HARDWARE
NR	NON-RATED
(E)	EXISTING
T	TEMPERED

COMMENTS

1. INCLUDE AUTOMATIC DOOR OPENER
2. INCLUDE BLACK OUT CURTAIN
3. UNDERCUT DOOR 3/4"

DOOR SCHEDULE NOTES

1. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 42 INCHES ABOVE THE FINISHED FLOOR. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS ARE NOT PERMITTED. THE UNLACHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION.
2. DOORS SHALL BE 1 3/4" THICK U.N.O. OR SPECIFIED
3. ALL DOORS WITHOUT PANIC HARDWARE SHALL HAVE LEVER HARDWARE.
4. CONTRACTOR IS TO FIELD MEASURE ALL OPENINGS PRIOR TO FABRICATION.
5. REFER TO SPECIFICATIONS AND SHEET G0.04 FOR SIGNAGE FABRICATION.
6. MAXIMUM EFFORT TO OPERATE DOOR SHALL NOT EXCEED THE FOLLOWING:
   A. INTERIOR DOORS - 5 POUNDS
   B. EXTERIOR DOORS - 5 POUNDS
7. INDIVIDUAL DOOR LEAVES ARE TO BE EQUAL IN SIZE, U.N.O.
8. PROVIDE TEMPERED GLASS AT ALL DOOR LOCATIONS, U.N.O.

DSA FILE NO. 37-C2 A# 04-119576

PBK

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PROJECT NUMBER 20151

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DOOR SCHEDULE

A9.02

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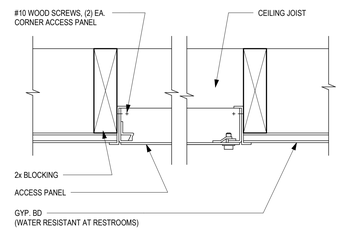
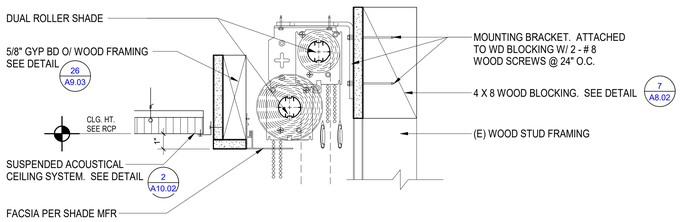
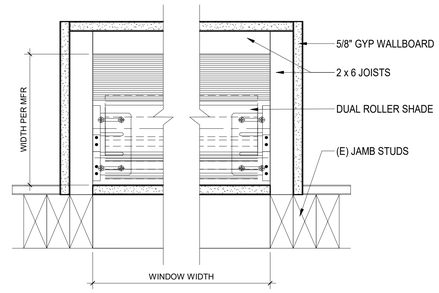
NOTES:

1. REFER TO STRUCTURAL **2 / S0.14** FOR SOFFIT FRAMING DETAILS.
2. AFFIX PERMANENTLY A WARNING LABEL ON THE PANEL THAT READS "DO NOT CLIMB, WORK OR CRAWL ON THE GYPSUM WALL BOARD CEILING PANELS OR WOOD FRAMING. DO NOT STORE OR STOW ANYTHING ON GYPSUM BOARD CEILINGS PANELS OR WOOD FRAMING."

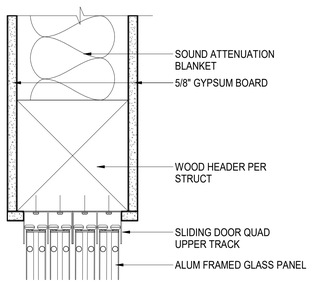


AT CEILING JOISTS

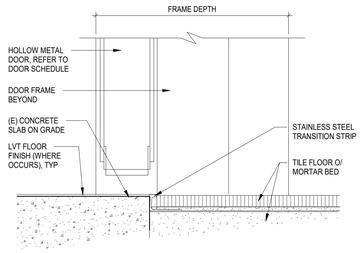


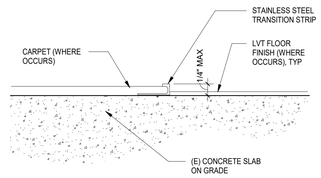


29 ACCESS PANEL @ GYP. BD. CEILING
3" = 1'-0"



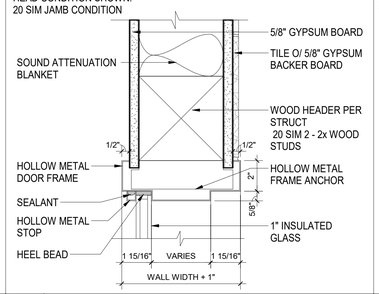
28 DUAL ROLLER SHADE AT ACOUSTIC PANEL CEILING
3" = 1'-0"



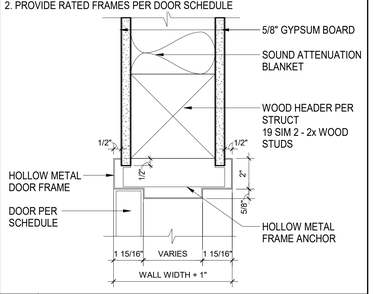


26 DUAL ROLLER SHADE FRAMING
3" = 1'-0"

NOTE
HEAD CONDITION SHOWN.
20 SIM JAMB CONDITION



NOTE
1. HEAD CONDITION SHOWN. 19 SIM JAMB CONDITION.
2. PROVIDE RATED FRAMES PER DOOR SCHEDULE



24 INT ALUM FRAMED SLIDING DR HEAD
3" = 1'-0"

23 INT ALUM FRAMED SLIDING DR HEAD
3" = 1'-0"

NOTE:
1. FRAME DEPTH TO BE DETERMINED BY OVERALL WALL THICKNESS (TYP)
2. REMOVE EXISTING CEMENT PLASTER AND GYP BD AS REQUIRED TO REMOVE AND REPLACE FRAME

22 FLOOR TRANSITION STRIP @ TILE
6" = 1'-0"

NOTE:
1. FRAME DEPTH TO BE DETERMINED BY OVERALL WALL THICKNESS (TYP)
2. REMOVE EXISTING CEMENT PLASTER AND GYP BD AS REQUIRED TO REMOVE AND REPLACE FRAME

21 FLOOR TRANSITION STRIP
6" = 1'-0"

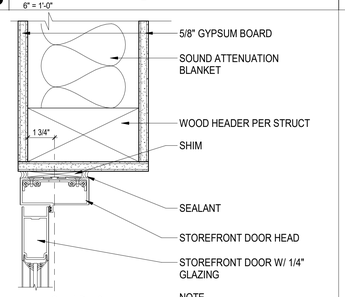
20 INTERIOR H.M. WINDOW HEAD/JAMB
3" = 1'-0"

NOTE:
1. FRAME DEPTH TO BE DETERMINED BY OVERALL WALL THICKNESS (TYP)
2. REMOVE EXISTING CEMENT PLASTER AND GYP BD AS REQUIRED TO REMOVE AND REPLACE FRAME

19 INTERIOR H.M. DOOR HEAD/JAMB
3" = 1'-0"

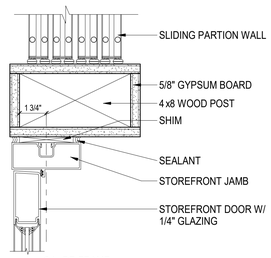
NOTE:
1. FRAME DEPTH TO BE DETERMINED BY OVERALL WALL THICKNESS (TYP)
2. REMOVE EXISTING CEMENT PLASTER AND GYP BD AS REQUIRED TO REMOVE AND REPLACE FRAME

18 EXT. HM DOOR @ THRESHOLD
6" = 1'-0"

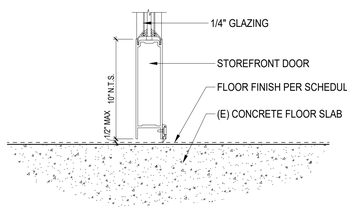


NOTE
HEAD CONDITION SHOWN.
JAMB CONDITION SIMILAR

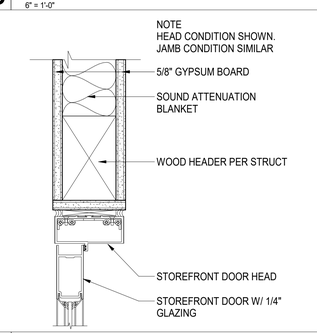
17 EXT. HM DOOR @ (E) JAMB
3" = 1'-0"



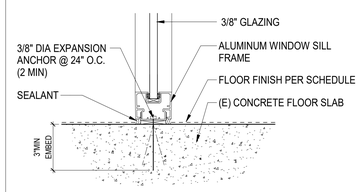
16 EXT. HM DOOR @ (E) HEAD
3" = 1'-0"



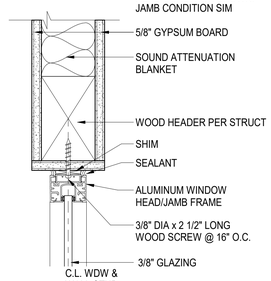
15 EXT. DOOR @ THRESHOLD
6" = 1'-0"



14 EXT. HM DOOR @ JAMB
3" = 1'-0"



13 EXT. HM DOOR @ HEAD
3" = 1'-0"



12 INT STOREFRONT DR HEAD/JAMB @929
3" = 1'-0"

11 INT STOREFRONT DOOR JAMB @929
3" = 1'-0"

10 INT STOREFRONT SIL
3" = 1'-0"

9 INT STOREFRONT DOOR HEAD/JAMB
3" = 1'-0"

8 INT ALUMINUM WINDOW SILL
3" = 1'-0"

7 INT ALUMINUM WDW HEAD/JAMB
3" = 1'-0"

6 INT ALUMINUM WINDOW SILL
3" = 1'-0"

5 EXTERIOR STOREFRONT WINDOW SILL
3" = 1'-0"

4 EXTERIOR STOREFRONT WINDOW JAMB, DOOR JAMB SIM
3" = 1'-0"

2 EXTERIOR STOREFRONT WINDOW HEAD, DOOR HEAD SIM
3" = 1'-0"

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DSA FILE NO. 37-C2 A# 04-119030

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PROJECT NUMBER
20151

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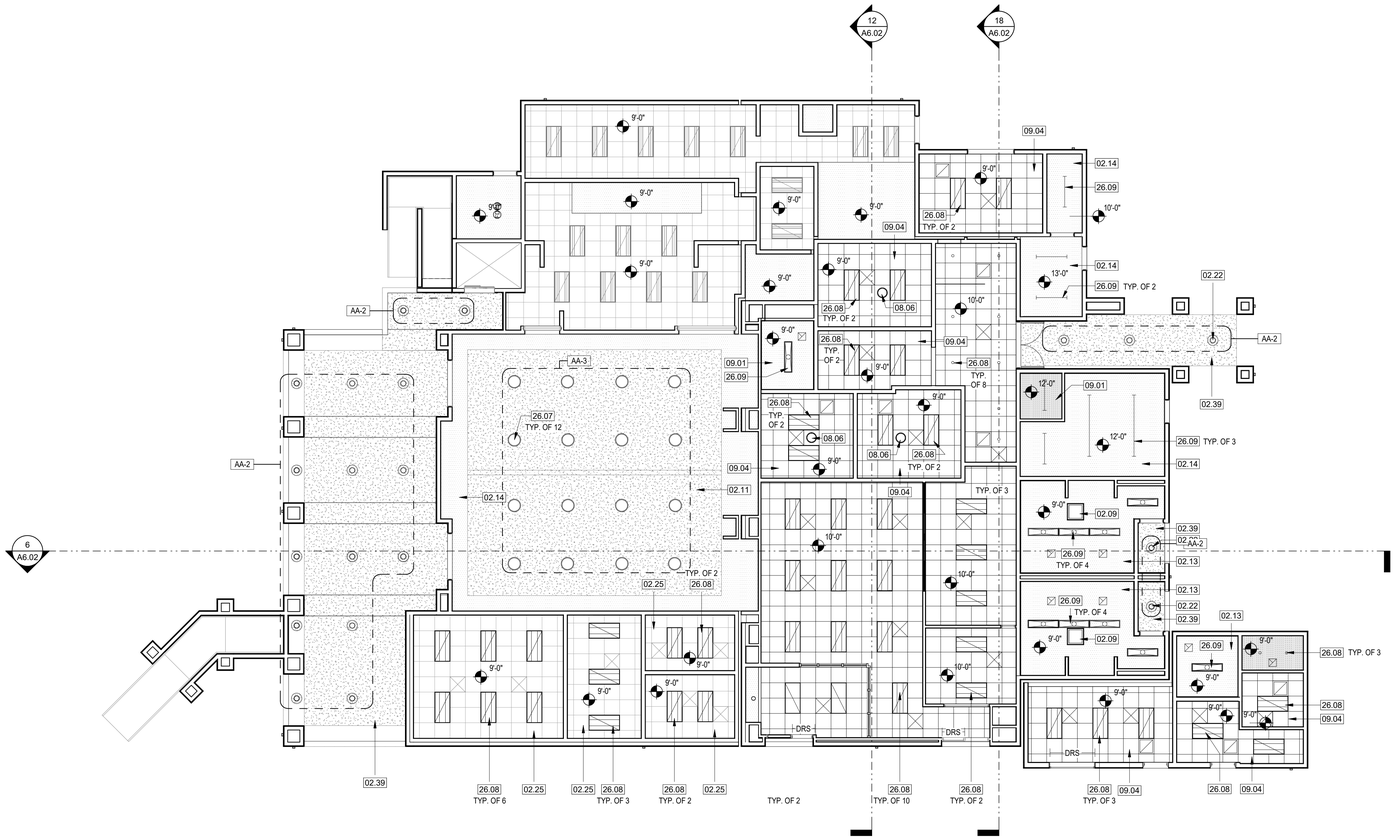
DOOR AND WINDOW DETAILS

A9.03



6 REFLECTED CEILING PLAN
1/8" = 1'-0"

PROJECT NORTH

KEYNOTE LEGEND

NUMBER	DESCRIPTION
02.09	(E) SKYLIGHT, PROTECT
02.11	(E) INT CEMENT PLASTER
02.13	(E) GYPSUM WALLBOARD, PAINT
02.14	(E) GYPSUM WALLBOARD
02.22	(E) RECESSED LIGHT FIXTURE
02.25	(E) 24x24 ACOUSTICAL CEILING PANEL SYSTEM
02.39	(E) EXT CEMENT PLASTER SOFFIT, PAINT
08.06	TUBULAR SKYLIGHT
09.01	GYPSUM WALL BOARD
09.04	24x24 ACOUSTICAL PANEL SUSPENDED CEILING SYSTEM
26.07	PENDANT LIGHT FIXTURE
26.08	RECESSED LIGHT FIXTURE
26.09	CEILING SURFACE MOUNTED LIGHT FIXTURE

CEILING PLAN NOTES

1. REFER TO AND COORD. WITH ROOM FINISH SCHEDULES FOR SPECIFIC CEILING TYPES.
2. ALL SCHEDULED CEILING HEIGHTS ARE FROM THE MAIN FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.
3. NO FIRE SPRINKLER HEADS ARE SHOWN ON ARCH. CEILING PLANS. ALL SPRINKLER HEADS SHALL BE CENTERED WITHIN CEILING TILES U.N.O.
4. ONLY CEILING MOUNTED FIXTURES AND EQUIP. IS SHOWN ON ARCH. CEILING PLANS. REFER TO INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURES. REFER TO MEPT DOCUMENTS FOR ADDITIONAL INFORMATION CONCERNING CEILING MOUNTED FIXTURES AND OR WALL MOUNTED FIXTURES.
5. CEILING MOUNTED LIGHT FIXTURES ARE SHOWN FOR LOCATION PURPOSES ONLY. COORD. WITH ELEC. DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
6. CEILING MOUNTED LIGHT FIXTURES WITHIN FIRE RATED CEILING ASSEMBLIES SHALL HAVE LIGHT FIXTURE PROTECTION AND BE TENTED OR OTHERWISE FIRE RATED TO MATCH CEILING ASSEMBLY FIRE RATING.
7. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORD. LOCATIONS OF CEILING ACCESS PANELS WITH ARCH. PRIOR TO INSTALLATION. CEILING ACCESS PANEL FIRE RATINGS SHALL MATCH CEILING ASSEMBLY FIRE RATINGS.
8. REFER TO WALL SECTIONS FOR WALL-CEILING INTERFACE

CEILING PLAN LEGEND

- (E) GYPSUM CEILING TO REMAIN
- (E) CEMENT PLASTER CEILING TO REMAIN
- (E) 24 x 24 ACOUSTICAL PANEL SUSPENDED CEILING SYSTEM TO REMAIN
- 24 x 24 ACOUSTICAL PANEL SUSPENDED CEILING SYSTEM
- GYPSUM WALLBOARD
- DRS DUAL ROLLER SHADE, SEE DETAIL 28/A9.03
- EXISTING MECHANICAL REGISTER (SEE MECHANICAL)
- RETURN REGISTER (SEE MECHANICAL)
- SUPPLY DIFFUSER (SEE MECHANICAL)
- EXHAUST GRILLE (SEE MECHANICAL)
- PATCH (E) EXT CEMENTIOUS PLASTER AROUND LIGHT FIXTURE

ADDITIVE ALTERNATES

AA-2 EXTERIOR LIGHT FIXTURES

AA-3. DINING HALL LIGHT FIXTURES

DSA FILE NO. 37-C2 A# 04-119576

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REFLECTED CEILING PLAN

A10.01

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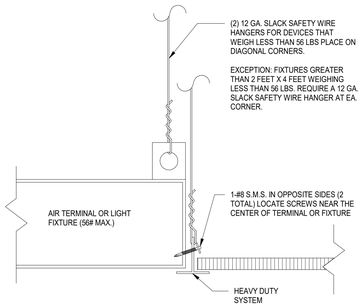
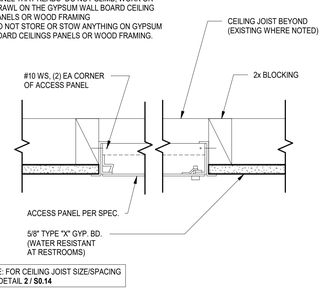


27 RECESSED LIGHT FIX. / AIR TERMINALS
3" = 1'-0"

1. AFFIX PERMANENTLY A WARNING LABEL ON THE PANEL THAT READS "DO NOT CLIMB, WORK OR CRAWL ON THE GYPSUM WALL BOARD CEILING PANELS OR WOOD FRAMING
2. DO NOT STORE OR STOW ANYTHING ON GYPSUM BOARD CEILINGS PANELS OR WOOD FRAMING.



NOTE: FOR CEILING JOIST SIZE/SPACING SEE DETAIL **2 / S0.14**

095000.12-S *CBC 2013 - Rev 09/16*

26 ACCESS PANEL
3" = 1'-0"

CEILING GENERAL NOTES

1. CEILING SYSTEM GENERAL NOTES:

1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635-07 AND SECTION 5.1 OF ASTM E580-10a.

1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635-08.

1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:
MANUFACTURER'S NAME *("CERTAINTEED")*
PRODUCT EVALUATION REPORT TYPE AND NUMBER _____
MANUFACTURER'S MODEL NUMBER - MAIN RUNNER *("ICC-ES ESR-3336")*
MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER *("HEAVY DUTY 15/16 CLASSIC STAB CS 12-12-20")*

1.04 SEISMIC WALL CLIP:
MANUFACTURER'S MODEL *CERTAINTEED CTSPC-2 (ESR-3336)*

1.05 CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.

1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE 3/4" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE 3/4" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP.

1.07 T-BAR CEILING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF DSA IR 25-2.13.

2. MATERIALS:

2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVINIZED) CARBON STEEL CONFORMING TO ASTM A641-09a. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.

2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A6453-11, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A2.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007, INCLUDING SUPPLEMENT 2 DATED 2010 (AISI S100-07/S2-10), MATERIAL 43 MIL (18 GAGE) AND LIGHTER SHALL HAVE A MINIMUM YIELD STRENGTH OF 32 KSI. MATERIAL 54 MIL (16 GAGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.

2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3,UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (Fy) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (Fu) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES:

3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.

3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.

3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.

3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.

3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE. (E.G. BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.)

4. FASTENERS AND WELDING:

4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513-10, ASME B18.6.4-89 (R2005). PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.

4.02 EXPANSION ANCHORS SHALL BE: _____

4.03 POWER-ACTUATED FASTENERS SHALL BE: _____

4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.

4.05 POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.

4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON DESTRUCTIVE MEANS PRIOR TO INSTALLING POST - INSTALLED ANCHOR.

4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

5. TESTING: ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.

5.01 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1913A.7.

5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1913A.7.

6. LIGHT FIXTURES:

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

6.02 SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

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

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

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

7. SERVICES WITHIN THE CEILING:

7.01 ALL FLEXIBLE SPRINKLER HOSE FIRRING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.

7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

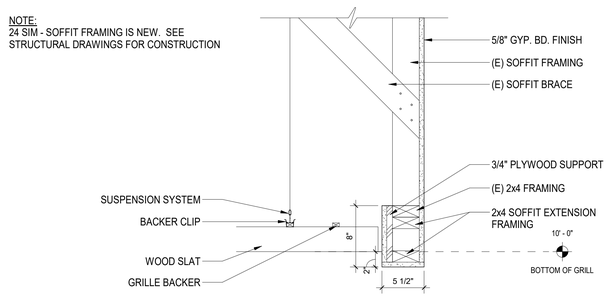
7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

8. OTHER DEVICES WITHIN THE CEILING:

8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LB. SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

NOTE:
24 SIM - SOFFIT FRAMING IS NEW. SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION



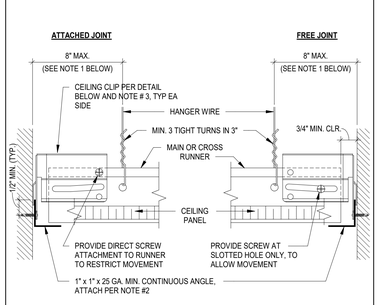
24 SOFFIT EXTENSION & WOOD GRILLE
1 1/2" = 1'-0"

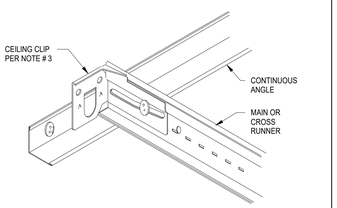
NOTE:
SEE DETAIL **3 / S0.12** FOR CONNECTION TO (E) ROOF FRAMING

18 SKYLIGHT SHAFT
1 1/2" = 1'-0"

NOTE:
SEE DETAIL **1 / S0.14** FOR CONNECTION TO (E) ROOF FRAMING

17 NEW SOFFIT AND CEILING CONNECTIONS
1 1/2" = 1'-0"



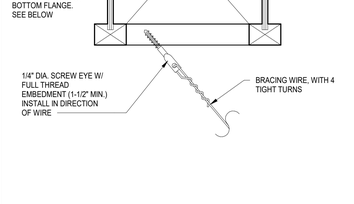


NOTES:

1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OF WITHIN ONE-FORTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. AT METAL STUD FRAMING: (1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24" O.C. AT WOOD STUD FRAMING: (1) #10 WOOD SCREW TO 2X MIN. WALL STUD @ 24" O.C.
3. CELING CLIP: CERTAINTEED CTSPC-2 (ESR-3336), OR EQUAL
4. SEE DETAIL 5/- FOR ATTACHMENT TO WALL.

095100.2.60-S *DSA IR 25-2.13 #2.60 - Rev 02/10/16*

16 SUSPENDED CEILING PERIMETER JOINTS
6" = 1'-0"

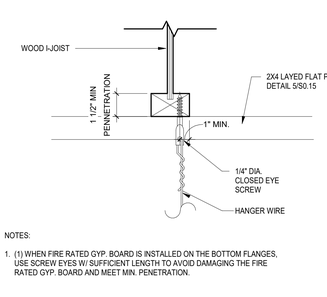


NOTES:

1. DO NOT INSERT SCREW EYES PARALLEL TO LAMINATIONS.
2. WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MINIMUM PENETRATION.

095100.4.35-S *DSA IR 25-2.13 #4.36 - Rev 02/10/16*

15 BRACING WIRE TO TJI & ROOF DECK
3" = 1'-0"

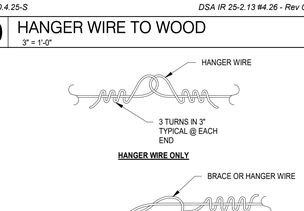


NOTES:

1. (1) WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

095100.4.25-S *DSA IR 25-2.13 #4.26 - Rev 02/10/16*

20 HANGER WIRE TO WOOD
3" = 1'-0"

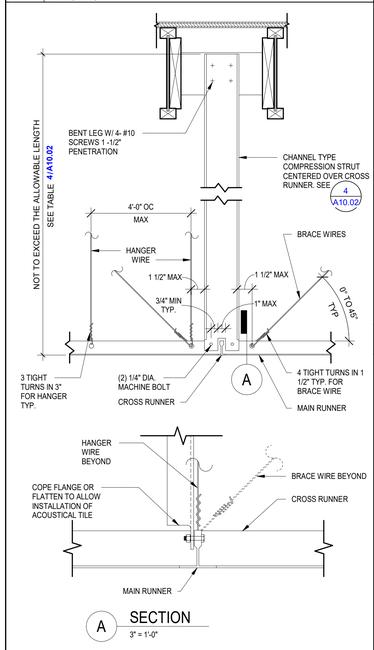


NOTES:

WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

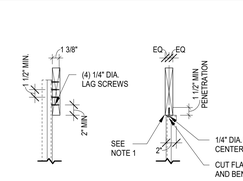
095100.6.10-S *DSA IR 25-2.13 #6.10 - Rev 02/10/16*

14 CEILING WIRE SPLICES
6" = 1'-0"



095100.3.10-S *DSA IR 25-2.13 #3.10 - Rev 02/10/16*

6 COMPRESSION STRUT - CHANNEL
1 1/2" = 1'-0"



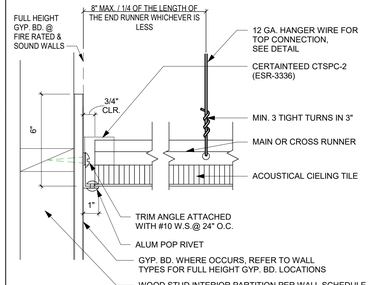
CHANNEL STRUT

NOTES:

1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD MEMBER.
2. VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
3. SEE DETAIL 4/A10.02 FOR COMPRESSION STUT SIZE

095100.5.60-S *DSA IR 25-2.13 #5.60 - Rev 02/10/16*

11 STRUT TO WOOD FRAMING
1" = 1'-0"

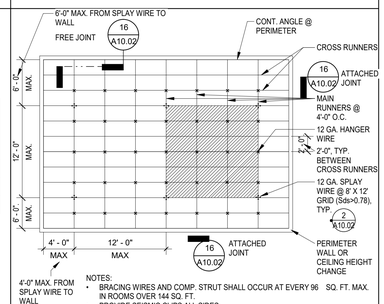


CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250137-43	8'-10"
400S137-43	10'-10"

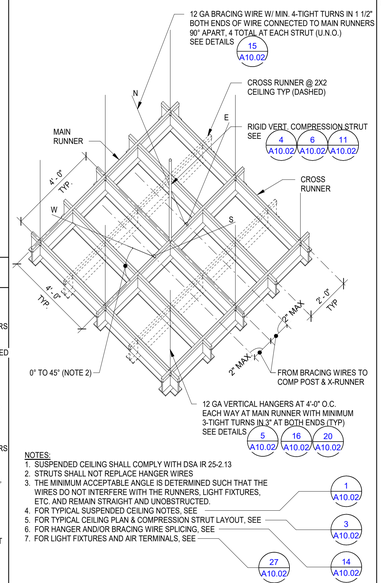
095100.3.21-S *DSA IR 25-2.13 #3.21 - Rev 02/10/16*

5 T-BAR CEILING PERIMETER - FIXED END
3" = 1'-0"

4 COMPRESSION STRUT TABLE
1/2" = 1'-0"



3 SUSPENDED ACOUSTICAL CEILING - PLAN
1/8" = 1'-0"



NOTES:
1. SUSPENDED CEILING SHALL COMPLY WITH DSA IR 25-2.13
2. STRUTS SHALL NOT REPLACE HANGER WIRES
3. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.
4. FOR TYPICAL SUSPENDED CEILING NOTES, SEE 1/A10.02
5. FOR TYPICAL CEILING PLAN & COMPRESSION STRUT LAYOUT, SEE 3/A10.02
6. FOR HANGER AND/OR BRACING WIRE SPLICING, SEE 27/A10.02 14/A10.02
7. FOR LIGHT FIXTURES AND AIR TERMINALS, SEE

2 SUSPENDED ACOUSTICAL CEILING
3/8" = 1'-0"

DSA FILE NO. 37-C2 A# 04-119030

PBK

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CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
20151

DATE:	11/12/2020
DRAWN BY:	Author
CHECKED BY:	Checker

REVISIONS

No.	Description	Date

DSA SUBMITTAL

CEILING DETAILS

A10.02

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REINFORCING STEEL (CONTINUED)

13. REINFORCING STEEL BENDS SHALL BE MADE COLD. RE-BENDING OF PREVIOUSLY BENT REINFORCING IS NOT PERMITTED.

14. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL REINFORCING.

15. ALL REINFORCING STEEL SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN FINAL INSPECTION IS CONDUCTED.

INSPECTOR OF RECORD (IOR)

1. IOR'S SHALL HAVE CLASS 1 CERTIFICATION AND BE APPROVED BY DSA AS REQUIRED BY INTERPRETATION OF REGULATIONS (IR) A-7.

EXISTING CONDITION DOCUMENTATION

1. ALL EXISTING CONDITION INFORMATION INDICATED ON DRAWINGS IS BASED ON A PARTIAL SET OF ORIGINAL STRUCTURAL CONSTRUCTION DRAWINGS (DSA APPL. #A47446) DATED 4/14/1987 AS PREPARED BY KARIOTIS & ASSOCIATES STRUCTURAL ENGINEERS AND STRUCTURAL CONSTRUCTION DRAWINGS (DSA APPL. #04-107979) DATED 09/29/2006 AS PREPARED BY MARTIN, CHOW & NAKABARA, INC. CONSULTING STRUCTURAL ENGINEERS.

2. EXISTING FRAMING AND DIMENSIONS ARE FOR REFERENCE ONLY. CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS IN AREAS OF WORK AND NOTIFY AEOR AND SEOR IF CONDITIONS DIFFER THAN THAT SHOWN ON DRAWINGS.

CAST-IN-PLACE CONCRETE (CONTINUED)

18. PROVIDE SLEEVES FOR ELECTRICAL AND PLUMBING OPENINGS. IF CONFLICT OCCURS BETWEEN REINFORCING AND SLEEVES, REPOSITION REINFORCING OR SLEEVES OR BOTH. DO NOT CUT ANY REINFORCING. CORING IS NOT PERMITTED.

19. PRIOR TO PLACING CONCRETE, REINFORCING BARS, EMBEDDED PLATES, ANCHOR BOLTS, AND OTHER CONCRETE EMBEDMENTS SHALL BE WELL SECURED IN POSITION.

20. CONCRETE PLACEMENT SHALL CONFORM TO ACI 304 AND CONTRACT DOCUMENTS. INTENTIONALLY ROUGHEN ALL PREVIOUSLY HARDENED CONCRETE SURFACES TO A FULL AMPLITUDE OF 1/4-INCH AGAINST WHICH FRESH CONCRETE IS PLACE.

21. PROVIDE KEYED CONSTRUCTION JOINT WHERE INDICATED ON DRAWINGS. CLEAN, REMOVE LAITANCE, THOROUGHLY WET, AND REMOVE STANDING WATER IMMEDIATELY BEFORE PLACING FRESH CONCRETE.

22. FORMS SHALL BE CONSTRUCTED TO PROVIDE CAMBER AS SPECIFIED ON THE DRAWINGS. CONCRETE SLAB THICKNESS SHALL BE MAINTAINED.

23. FORM EXPOSED CORNERS OF COLUMNS, BEAMS AND WALLS WITH A 3/4-INCH CHAMFER, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.

24. AT LEAST TWO HOURS MUST ELAPSE BETWEEN THE END OF COLUMN OR WALL PLACEMENT AND THE BEGINNING OF SLAB PLACEMENT.

25. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY ARCHITECT (STRUCTURAL ENGINEER).

26. CURING COMPOUNDS, SEALERS, HARDENERS, ETC., USED ON CONCRETE THAT RECEIVES A FINISH SHALL BE APPROVED BY THE ARCHITECT BEFORE USE.

27. GROUT SHALL BE NON-SHRINK, NON-METALLIC, SHALL NOT CONTAIN CHLORIDES, AND SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI.

28. LEAN CONCRETE SHALL CONTAIN 2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. USE ONLY WHERE SPECIFICALLY INDICATED.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE TO AMERICAN CONCRETE INSTITUTE ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE".

2. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. BARS TO BE WELDED SHALL CONFORM TO LOW ALLOY ASTM A706.

3. REINFORCEMENT RESISTING EARTHQUAKE-INDUCED FLEXURAL AND AXIAL FORCES IN FRAME MEMBERS AND IN STRUCTURAL WALL BOUNDARY ELEMENTS SHALL COMPLY WITH ASTM A706. ASTM A615 GRADES 40 AND 60 REINFORCEMENT SHALL BE PERMITTED IN THESE MEMBERS IF:

   A. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3000 PSI).
   B. THE RATIO OF THE ACTUAL TENSILE STRENGTH TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.

4. WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A185. LAP WELDED WIRE REINFORCEMENT1-1/2 MESHES OR ONE FOOT MINIMUM.

5. DEFORMED BAR ANCHORS SHALL BE NELSON STUD WELDING, INC. TYPE D2L (ICC EVALUATION SERVICE REPORT ER-2907), OR AN APPROVED EQUAL, AND SHALL BE MADE FROM DEFORMED STEEL WIRE CONFORMING TO ASTM A496, WITH A MINIMUM YIELD STRENGTH OF 70 KSI AND A MINIMUM TENSILE STRENGTH OF 80 KSI

6. PREPARE REINFORCING STEEL SHOP DRAWINGS IN ACCORDANCE TO ACI 315, PART B. SHOP DRAWINGS MAY BE PREPARED MANUALLY OR BY COMPUTER. PLACING DRAWINGS SHALL BE PREPARED TO THE SAME STANDARD AS CONTRACT DRAWINGS. SHOW REINFORCING PLACEMENT, SPLICE LOCATIONS, REINFORCING LENGTHS, DETAILS, ELEVATIONS, BEND DETAILS, ETC. SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW PRIOR TO FABRICATION. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO DEVELOPING REINFORCING STEEL SHOP DRAWINGS IF INSUFFICIENT CLEAR DISTANCES BETWEEN REINFORCING STEEL OR OTHER CONGESTION IS ENCOUNTERED. DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS. IF SUBMITTAL IS PARTIAL, CLEARLY INDICATE ITEMS EXCLUDED FROM SUBMITTAL. SHOP DRAWINGS WILL BE REJECTED IF NOT PREPARED TO THE STANDARDS STATED ABOVE.

7. REINFORCING STEEL SHALL BE SPLICED AS SHOWN ON THE DRAWINGS. IF NOT SHOWN, LOCATE SPLICES IN AREAS OF MINIMUM STRESS. LAP (SPLICE) LENGTHS ARE AS INDICATED ON THE DRAWINGS.

8. MINIMUM CLEARANCES BETWEEN PARALLEL REINFORCING STEEL INCLUDING SPLICED BARS SHALL BE ONE INCH, ONE BAR DIAMETER, OR 4/3 TIMES THE MAXIMUM SIZE AGGREGATE, WHICHEVER IS GREATER. PROVIDE 1 1/2 INCHES OR 1 1/2 BAR DIAMETERS, WHICHEVER IS GREATER, AT COLUMNS ONLY. FOR BUNDLED BARS, MINIMUM CLEAR DISTANCES BETWEEN UNITS OF BUNDLED BARS SHALL BE SAME AS SINGLE BARS EXCEPT BAR DIAMETER IS DERIVED FROM EQUIVALENT TOTAL AREA OF BUNDLE.

9. PROVIDE THE FOLLOWING CONCRETE COVERAGE FOR REINFORCING STEEL PLACED IN CAST-IN-PLACE CONCRETE:

   A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
   B. CONCRETE EXPOSED TO EARTH OR WEATHER:
      NO. 6 THROUGH NO. 18 BARS.....2"
      NO. 5 BARS, W31 OR D31 WIRE, AND SMALLER.....1-1/2"
   C. CONCRETE NOT EXPOSED WEATHER OR IN CONTACT WITH GROUND:
      SLAB, WALLS, JOISTS:
      NO. 14 AND NO. 18 BARS.....1-1/2"
      NO. 11 BARS AND SMALLER (*).....1"
      BEAMS AND COLUMNS
      PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS.....1-1/2"
   D. SLAB-ON-GRADE.....MID-HEIGHT OF SLAB

   (*) CONCRETE COVERAGE ADEQUATE FOR FIRE-RESISTIVE PERIOD OF 2 HOURS.

10. WALL AND COLUMN DOWELS SHALL MATCH SIZE, GRADE, AND SPACING OF RESPECTIVE VERTICAL REINFORCING, UNLESS OTHERWISE NOTED.

11. USE PLASTIC OR PLASTIC COATED SPACERS AND CHAIRS IF RESTING ON EXPOSED CONCRETE SURFACES.

12. WELDING OF REINFORCING STEEL SHALL BE MADE WITH LOW HYDROGEN ELECTRODES IN CONFORMANCE WITH AMERICAN WELD SOCIETY AWS D1.4 "STRUCTURAL WELDING CODE - REINFORCING STEEL".

   A. EXCEPT FOR REINFORCING STEEL CONFORMING TO ASTM A706, DETERMINE CARBON EQUIVALENT OF ALL REINFORCING STEEL TO BE WELDED. SUBMIT WPS FOR ALL REINFORCING STEEL TO BE WELDED TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND TO GOVERNING CODE AUTHORITY FOR APPROVAL PRIOR TO EXECUTION. WPS SHALL INCLUDE:
      1) SKETCH OF JOINT DESCRIBING GEOMETRY AND APPLICABLE DIMENSIONS, WELD TYPE AND SIZE, SEQUENCE OF WELD DEPOSITION, AND MAXIMUM LAYER THICKNESS AND BEAD WIDTHS.
      2) APPLICABLE WELD PROCESS.
      3) FILLER METAL PER AWS STANDARD AND ELECTRODE SPECIFICATION AND CLASSIFICATION, AS WELL AS DETAILS OF SHIELDING MATERIAL.
      4) ELECTRICAL CHARACTERISTICS FOR WELD PROCESS USED SUCH AS TYPE OF CURRENT AND ACCEPTABLE RANGE OF CURRENT MEASURED IN AMPERAGE, VOLTAGE RANGE, AND ELECTRODE DIAMETER. FOR WELD FEED PROCESS, INDICATE MANUFACTURER RECOMMENDED WIRE SPEED, MELT OFF RATE AND DEPOSITION RATE.
      5) PREHEAT TEMPERATURES.
      6) PROCEDURE QUALIFICATION RECORDS (PQR) FOR ALL WPS'S QUALIFIED BY TESTING.
   B. WELDERS SHALL BE CERTIFIED TO CONFORM WITH AWS STANDARDS AND APPROVED BY THE GOVERNING CODE AUTHORITY.

FOUNDATIONS

1. FOUNDATION DESIGN VALUES (2019 CBC TABLE 1806A.2):
   BEARING CAPACITY..... 1,500 PSF*
   LATERAL BEARING PRESSURE..... 100 PSF
   LATERAL RESISTANCE..... 130 PSF
   *INCREASE FOR SHORT TERM LOADING ALLOWED PER CBC.

2. BOTTOM OF FOOTINGS SHALL BE A MINIMUM OF 18 INCHES BELOW LOWEST ADJACENT FLOOR OR GRADE AND 18 INCHES INTO RECOMMENDED BEARING MATERIAL (NATIVE EARTH MATERIALS). FOOTING DIMENSIONS SHALL NOT BE LESS THAN 24 INCHES FOR ISOLATED SPREAD FOOTINGS AND 12 INCHES FOR CONTINUOUS SPREAD FOOTINGS.

3. FOUNDATIONS MAY BE CAST DIRECTLY AGAINST EXCAVATIONS PROVIDED EXCAVATION IS CAPABLE OF MAINTAINING A VERTICAL CUT WITHOUT SLOUGHING.

4. CONCRETE SHALL NOT BE PLACED ON FROZEN GRADE. IF FOOTING IS SUBJECT TO FREEZING TEMPERATURES AFTER FOUNDATION CONSTRUCTION, THEN FOOTING SHALL BE ADEQUATELY PROTECTED FROM FREEZING.

5. CONTRACTOR TO PROVIDE FOR DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. DEWATERING SHALL EFFECTIVELY ELIMINATE ANY HYDROSTATIC PRESSURE ON SHORING. ENSURE THAT CONTAMINATED WATER IS NOT DISPOSED OF IN PUBLIC SEWER OR STORM DRAIN SYSTEM AND ENSURE THAT DIRTY WATER IS NOT DISPOSED OF INTO PUBLIC RIGHT-OF-WAY.

6. UNLESS ADEQUATELY BRACED AND SHORED, RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL WALLS HAVE ATTAINED FULL DESIGN STRENGTH. FOR PIT WALLS AND BUILDING WALLS BELOW GRADE, BRACING AND SHORING SHALL REMAIN IN PLACE UNTIL ATTACHED FLOORS ARE PLACED, CURED FOR AT LEAST 7 DAYS, AND HAVE ATTAINED FULL DESIGN STRENGTH. BACKFILL PLACED IMMEDIATELY BEHIND RETAINING WALLS SHALL BE COMPACTED WITH HAND OPERATED EQUIPMENT.

7. SIDEWALKS OR PAVING IMMEDIATELY ADJACENT TO BUILDING PERIMETER SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING. LANDSCAPE IRRIGATION IS NOT PERMITTED WITHIN FIVE FEET OF BUILDING PERIMETER FOOTINGS EXCEPT WHEN ENCLOSED IN PROTECTED PLANTERS THAT DIRECT DRAINAGE AWAY FROM STRUCTURE AND FOUNDATIONS. DISCHARGE FROM DOWNSPOUTS, ROOF DRAINS AND SCUPPERS IS NOT PERMITTED ONTO UNPROTECTED SOILS WITHIN FIVE FEET OF BUILDING PERIMETER.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE STANDARDS OF THE AMERICAN CONCRETE INSTITUTE, ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", WITH MODIFICATIONS AS NOTED IN THE CONTRACT DOCUMENTS.

2. CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28-DAY (f'c), UNLESS NOTED OTHERWISE:

SLABS-ON-GRADE	3,000 PSI	NORMAL WEIGHT
ALL OTHER CONCRETE	3,000 PSI	NORMAL WEIGHT

3. UNLESS NOTED OTHERWISE HEREIN, CONCRETE IS ASSIGNED TO EXPOSURE CLASSES F0, S0, P0, AND C0, AS DEFINED IN TABLE 19.3.1.1 OF ACI 318-14.

   A. CONCRETE IN CONTACT WITH SITE SOIL SHALL BE ASSIGNED TO EXPOSURE CLASS S0.

4. PORTLAND CEMENT FOR CONCRETE IN EXPOSURE CLASS S2 SHALL CONFORM TO ASTM C150, TYPE V (OR OTHER TYPES OF PORTLAND CEMENT WITH C3A CONTENT LESS THAN 5 PERCENT).

5. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33. NORMAL WEIGHT CONCRETE SHALL HAVE A DRY UNIT WEIGHT OF 150±3 PCF.

6. AGGREGATES FOR LIGHTWEIGHT CONCRETE SHALL BE EXPANDED SHALE CONFORMING TO ASTM C330. PRESIZE AGGREGATE BEFORE FIRING TO ALLOW OUTER CERAMIC SHELL TO REMAIN INTACT. LIGHTWEIGHT CONCRETE SHALL HAVE A DRY UNIT WEIGHT OF 110±3 PCF AND AIR CONTENT OF 4.5±1.5 PERCENT AS MEASURED BY THE VOLUMETRIC METHOD DESCRIBED IN ASTM C173.

7. MAXIMUM AGGREGATE SIZE SHALL BE 1-1/2 INCHES FOR FOUNDATIONS AND 1 INCH ELSEWHERE, BUT NO LARGER THAN (A) 1/5 THE NARROWEST DIMENSION BETWEEN SIDES OF FORMS, (B) 1/3 THE DEPTH OF SLABS, OR (C) 3/4 THE MINIMUM CLEAR SPACING BETWEEN INDIVIDUAL REINFORCING BARS OR WIRES, BUNDLES OF BARS, INDIVIDUAL TENDONS, BUNDLED TENDONS, OR DUCTS. SMALLER AGGREGATE SIZES MAY BE ALLOWED WITH THE APPROVAL OF THE ARCHITECT (STRUCTURAL ENGINEER).

8. MAXIMUM SLUMP SHALL BE 5 INCHES TYPICALLY AND 4 INCHES IN FLATWORK, UNLESS A HIGH-RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER) IS USED IN THE CONCRETE MIX PROPORTIONS.

9. CONCRETE SHRINKAGE SHALL BE LIMITED TO 0.05 PERCENT AS DETERMINED BY ASTM C157.

10. WATER CEMENT RATIO SHALL NOT EXCEED 0.45 FOR ALL FLATWORK THAT RECEIVES A MOISTURE SENSITIVE ADHESIVE TO AFFIX FLOOR FINISHES AND 0.50 ELSEWHERE. EXCEPTION: FOR CONCRETE ON METAL DECK, A WATER CEMENT RATIO OF 0.50 MAY BE USED FOR CONCRETE PLACED ON VENTED METAL DECKS. WATER CEMENT RATIO FOR CONCRETE IN EXPOSURE CLASS S2 SHALL NOT EXCEED 0.45.

11. CONCRETE MIX PROPORTIONING SHALL BE BASED ON FIELD EXPERIENCE AND/OR TRIAL MIXTURES AS STIPULATED IN ACI 318 SECTION 5.3. SUBMIT CONCRETE MIX PROPORTIONING DATA, INCLUDING HISTORICAL STRENGTH RECORDS AND/OR RESULTS OF TRIAL MIXTURES, FOR EACH TYPE AND COMPRESSIVE STRENGTH OF CONCRETE. CONCRETE MIX PROPORTIONING SHALL BE SIGNED AND SEALED BY A PROFESSIONAL CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA AND SHALL BE SUBMITTED TO THE ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND APPROVAL.

12. FOR CONCRETE SLABS-ON-GRADE PLACED DIRECTLY ON VAPOR RETARDER:

   A. CONCRETE MIXTURE:
      1) USE INCREASED SIZE OF MAXIMUM-SIZE COARSE AGGREGATE AND COARSER SAND.
      2) COARSE AGGREGATE TO BE WELL GRADED WITH MINIMUM FLAT OR ELONGATED PARTICLES.
      3). REDUCE SAND CONTENT TO LOWEST LEVEL CONSISTENT WITH ADEQUATE WORKABILITY.
      4) USE HIGH-RANGE WATER-REDUCING ADMIXTURE WITH GOOD SHRINKAGE-REDUCTION CHARACTERISTICS.

13. B. FINISHING AND CURING:
      1) USE PROPER FINISHING TECHNIQUES AND PROPER TIMING BETWEEN FINISHING OPERATIONS TO AVOID BLISTERING AND DELAMINATION.
      2) USE CONTINUOUS MOIST CURE OR HIGH-SOLIDS CURING COMPOUND.

14. CONCRETE MIXING SHALL CONFORM TO ASTM C94.

15. THE MAXIMUM SIZE OF A SINGLE POUR FOR ELEVATED SLABS SHALL NOT EXCEED 25,000 SQUARE FEET AND THE LENGTH TO WIDTH RATIO OF THE POUR SHALL NOT EXCEED 2 WITHOUT THE APPROVAL OF THE ARCHITECT (STRUCTURAL ENGINEER).

16. SUBMIT SHOP DRAWINGS INDICATING LOCATIONS OF CONCRETE CONSTRUCTION JOINTS TO THE ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND APPROVAL PRIOR TO PLACING CONCRETE. LOCATE CONSTRUCTION JOINTS TO MINIMIZE EFFECTS OF SHRINKAGE AND AT POINTS OF LOW STRESS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED IN BEAMS AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED BY THE ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO CONSTRUCTION.

17. THE OUTSIDE DIAMETER OF CONDUITS AND PIPES EMBEDDED IN WALLS AND SLABS SHALL NOT EXCEED 1/3 THE OVERALL THICKNESS OF SLAB OR WALL IN WHICH THEY ARE EMBEDDED. LOCATE CONDUITS AND PIPES WITHIN THE MIDDLE THIRD OF SLABS OR WALLS AND NO CLOSER THAN 3 DIAMETERS ON CENTER WITH A CLEAR SPACING NOT LESS THAN 4 INCHES. CROSSING OF ELECTRICAL CONDUIT IS NOT PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT (STRUCTURAL ENGINEER).

GENERAL

1. ALL WORK SHALL CONFORM TO THE STANDARDS OF THE CALIFORNIA BUILDING CODE, 2019 EDITION, AS AMENDED BY TITLE 14 OF THE DIVISION OF THE STATE ARCHITECT - STRUCTURAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THE CONTRACT DOCUMENTS.

2. THE PROJECT MANUAL FORMS A PART OF THESE GENERAL NOTES. CODES, STANDARDS, AND SPECIFICATIONS, INCLUDING ADDENDA AND SUPPLEMENTS, REFERENCED IN THE CONTRACT DOCUMENTS SHALL BE THE LATEST APPROVED ISSUE, UNLESS SPECIFICALLY NOTED.

3. NOTES AND DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. IF CONFLICT OCCURS BETWEEN THE CONTRACT DRAWINGS AND THE PROJECT MANUAL, IMMEDIATELY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) FOR RESOLUTION. DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS.

4. DESIGN LIVE LOADS: ROOF — 20 PSF (REDUCIBLE)

5. CODE LEVEL WIND DESIGN DATA:

RISK CATEGORY	= II
BASIC WIND SPEED	= 96 MPH
EXPOSURE CATEGORY	= C
ENCLOSURE CLASSIFICATION	= ENCLOSED BUILDING
INTERNAL PRESSURE COEFFICIENT, GCpi	= ± 0.18

6. CODE LEVEL EARTHQUAKE DESIGN DATA:

SITE COORDINATES	= 33.0161°N, 117.2571°W
MAPPED SPECTRAL RESPONSE ACCELERATION, SS	= 1.112g
MAPPED SPECTRAL RESPONSE ACCELERATION, S1	= 0.397g
SITE CLASS	= D
DESIGN SPECTRAL RESPONSE COEFFICIENT, SDS	= 0.782g
DESIGN SPECTRAL RESPONSE COEFFICIENT, SD1	= 0.397g
IMPORTANCE FACTOR, I_E	=1.0
BASIC SEISMIC-FORCE RESISTING SYSTEM	=LIGHT-FRAMED (WOOD) WALL SHEATHING WITH WOOD STRUCTURAL PANELS

7. GOVERNING CODE AUTHORITY: DIVISION OF THE STATE ARCHITECT, (DSA) - STRUCTURAL SAFETY.

8. CONTRACT DOCUMENTS INDICATE INFORMATION SUFFICIENT TO CONVEY DESIGN INTENT. REVIEW CONTRACT DOCUMENTS AND VERIFY FIELD AND EXISTING CONDITIONS. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER), PRIOR TO PROCEEDING WITH WORK, IF FURTHER CLARIFICATION OF DESIGN INTENT IS NEEDED.

9. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT (STRUCTURAL ENGINEER) OF ANY DISCREPANCIES.

10. PERFORM STRUCTURAL RELATED WORK AND DEVELOP SHOP DRAWINGS CONSIDERING CONTRACT DOCUMENTS IN THEIR ENTIRETY. CONDITIONS NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED AS DETAILED FOR SIMILAR WORK.

11. CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION. PROVIDE ALL NECESSARY MEASURES TO PROTECT THE STRUCTURE DURING CONSTRUCTION. COMPLY WITH THE STATE OF CALIFORNIA, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH REGULATIONS. CONSTRUCTION MATERIALS, IF PLACED ON FRAMED FLOORS AND ROOFS, SHALL BE SPREAD OUT SUCH THAT THE DESIGN LIVE LOAD PER SQUARE FOOT IS NOT EXCEEDED. PROVIDE ADEQUATE SHORING IF OVERLOAD IS ANTICIPATED OR WHERE STRUCTURAL ELEMENTS HAVE NOT ATTAINED DESIGN STRENGTH. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT CONSTITUTE ACCEPTANCE OF CONSTRUCTION MEANS AND METHODS.

12. SUBMIT SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION. CONTRACTOR SHALL REVIEW FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS PRIOR TO SUBMISSION TO ARCHITECT (STRUCTURAL ENGINEER). ARCHITECT'S (STRUCTURAL ENGINEER'S) REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN INTENT AND DOES NOT CONSTITUTE AN AUTHORIZATION TO DEVIATE FROM TERMS AND CONDITIONS OF CONTRACT. WHEN INDICATED, THE SUBMITTAL SHALL BE SIGNED AND SEALED BY A PROFESSIONAL CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. MAINTAIN AT SITE A COPY OF REVIEWED AND ACCEPTED SUBMITTALS.

13. MODIFICATIONS AND SUBSTITUTIONS MUST BE ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER). NO MODIFICATION OR SUBSTITUTION WILL BE ACCEPTED VIA SHOP DRAWING REVIEW. MANUFACTURED MATERIALS SHALL BE APPROVED BY THE GOVERNING CODE AUTHORITY PRIOR TO THEIR USE. ADHERE TO ALL CONDITIONS OF THOSE APPROVALS.

14. EQUIPMENT MANUFACTURER SHALL PROVIDE EQUIPMENT ANCHORAGE TO THE STRUCTURE MEETING THE REQUIREMENTS OF ASCE/SEI 7, CHAPTER 13.6. USE ISOLATORS, FASTENERS AND BRACING HAVING CURRENT ICC-ES REPORTS. EQUIPMENT ANCHORAGE SHALL BE CAPABLE OF TRANSMITTING CODE REQUIRED LATERAL LOADS BUT IN NO EVENT LESS THAN A LATERAL LOAD EQUIVALENT TO 30 PERCENT OF THE OPERATING WEIGHT OF EQUIPMENT. SECURE SUSPENDED EQUIPMENT WITH LATERAL OR SWAY BRACING HAVING CURRENT ICC-ES REPORTS.

DEMOLITION

1. VERIFY EXISTING BUILDING DIMENSIONS AND ELEVATIONS. NOTIFY ARCHITECT (STRUCTURAL ENGINEER) OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.

2. DEMOLITION WORK SHALL BE CONDUCTED IN SUCH A MANNER AS TO NOT DAMAGE EXISTING ELEMENTS THAT ARE TO REMAIN IN THE FINISHED BUILDING.

3. EXISTING ELEMENTS OF THE STRUCTURE THAT ARE TO REMAIN IN THE FINISHED BUILDING SHALL BE PROTECTED AS NECESSARY TO MINIMIZE DAMAGE DURING DEMOLITION WORK. ANY SUCH DAMAGE SHALL BE REPAIRED AND/OR REPLACED AT NO ADDED COST.

4. PROVIDE MEASURES NECESSARY TO PROTECT THE EXISTING STRUCTURE DURING DEMOLITION WORK. PROTECTIVE MEASURES SHALL REMAIN IN PLACE UNTIL THE FINAL STRUCTURAL ELEMENTS ARE IN PLACE AND ABLE TO SAFELY CARRY ALL IMPOSED EXISTING BUILDING LOADS. SUCH MEASURES INCLUDE, BUT NOT LIMITED TO, BRACING AND SHORING.

5. EXISTING CONCRETE ELEMENTS THAT ARE TO BE REMOVED BY CHIPPING SHALL BE STARTED WITH A 3/4 INCH DEEP SAW CUT. CORNERS SHALL BE DRILLED TO PREVENT OVER-CUTTING. EXPOSED SAW CUT LINES SHALL BE CLEAN, STRAIGHT AND SMOOTH.

6. ROUGHEN EXISTING CONCRETE SURFACES AGAINST WHICH FRESH CONCRETE IS TO BE PLACED TO A FULL AMPLITUDE OF 1/4 INCH.

7. EXISTING REINFORCING STEEL TO REMAIN SHALL BE CLEANED TO BARE METAL.

8. DEMOLISHED MATERIALS PLACED ON EXISTING FLOORS SHALL BE SPREAD OUT SUCH THAT IMPOSED LOADS DO NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING WHERE OVERLOAD IS ANTICIPATED.

DSA FILE NO. 37-C2 A# 04-119030

PBK

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CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER 20575

DATE: 11/10/20
DRAWN BY: RT
CHECKED BY: RB

REVISIONS

No.	Description	Date

100% CD SUBMITTAL

GENERAL NOTES

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STRUCTURAL STEEL (CONTINUED)

10. WELDS SHALL BE PREQUALIFIED PER AWS D1.1. NON-PREQUALIFIED WELDED JOINTS SHALL BE QUALIFIED BY TEST PER AWS D1.1.

11. SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW A WRITTEN WELDING PROCEDURE SPECIFICATION (WPS) FOR ALL WELDS USED ON PROJECT PRIOR TO FABRICATION. FOR WELDS NOT PREQUALIFIED, THE SUPPORTING PROCEDURE QUALIFICATION RECORD (POR) SHALL ALSO BE SUBMITTED WITH THE WPS. WPS SHALL BE IN ACCORDANCE TO AWS D1.1, SECTION 4.6 AND SHALL INCLUDE THE FOLLOWING INFORMATION FOR EACH WELD TYPE AND POSITION:

    A. SKETCH OF JOINT DESCRIBING GEOMETRY AND APPLICABLE DIMENSIONS, WELD TYPE AND SIZE, SEQUENCE OF WELD DEPOSITION, AND MAXIMUM LAYER THICKNESS AND BEAD WIDTHS. LAYER THICKNESS SHALL NOT EXCEED 1/4 INCH, AND BEAD WIDTH SHALL NOT EXCEED 5/8 INCH.
    B. BASE METAL TYPES AND THICKNESS.
    C. APPLICABLE WELD PROCESS (SMAW OR FCAW).
    D. FILLER METAL PER AWS STANDARD AND ELECTRODE SPECIFICATION AND CLASSIFICATION, AS WELL AS DETAILS OF SHIELDING MATERIAL.
    E. ELECTRICAL CHARACTERISTICS FOR WELD PROCESS USED SUCH AS TYPE OF CURRENT AND ACCEPTABLE RANGE OF CURRENT MEASURED IN AMPERAGE, VOLTAGE RANGE, AND ELECTRODE DIAMETER. FOR WELD FEED PROCESS, INDICATE MANUFACTURER RECOMMENDED WIRE SPEED, CONTACT DISTANCE, MELT OFF RATE AND DEPOSITION RATE.
    F. A COPY OF ELECTRODE MANUFACTURER'S TECHNICAL INFORMATION AND CERTIFICATE OF CONFORMANCE.

12. TESTING LABORATORY WILL VERIFY COMPLIANCE WITH ACCEPTED WPS AND WILL PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) IF DEVIATIONS ARE FOUND.

13. ELECTRODE DIAMETER SHALL NOT EXCEED PREQUALIFIED LIMITS SHOWN IN AWS D1.1 TABLE 3.7, AS APPLICABLE. FOR FCAW PROCESS, MAXIMUM ELECTRODE SIZE SHALL NOT EXCEED 1/8 INCH.

14. HYDROGEN LEVEL FOR ELECTRODES USED IN SLRS WELDED JOINTS SHALL MEET THE REQUIREMENTS FOR H16 AS SPECIFIED IN ANSI/AISC 341, APPENDIX W, SECTION W5.2. ELECTRODES FOR ALL OTHER WELDS SHALL BE LOW HYDROGEN TYPE.

15. WELDING OF SHEET METAL AND METAL STUDS SHALL BE IN ACCORDANCE WITH AWS D1.3.

16. ALL STEEL THAT IS ARCHITECTURALLY EXPOSED SHALL BE AESS CLASSIFICATION AS INDICATED ON ARCHITECTURAL DRAWINGS - AESS-1 UNO. ALL EXPOSED WELDMENTS ARE TO BE SSPC SPS WITH CORROSION UNO.

ROUGH CARPENTRY AND TIMBER (CONTINUED)

16. POST MAY BEAR ON SILL PLATES UNLESS OTHERWISE NOTED.

17. WALL BRACING: ALL WALLS NOT OTHERWISE BRACED SHALL HAVE 1x6 DIAGONAL LET-IN BRACING AT EACH OF 25 FEET INTERVALS. EACH BRACE SHALL COVER MINIMUM 3 STUD SPACES AND BE NAILED TO TOP AND BOTTOM PLATES WITH 3-8d NAILS.

18. UNLESS CLOSER SPACING OR MORE RESTRICTIVE REQUIREMENTS ARE SPECIFIED, FIREBLOCKED WALLS SHALL BE FIREBLOCKED SO THAT NO SPACE EXCEEDS 8 FEET IN HEIGHT. STAIR STRINGERS SHALL BE FIREBLOCKED AT EACH END AND MID-HEIGHT.

19. STUD BOLTING: STUDS ADJACENT TO CONCRETE OR MASONRY WALLS SHALL BE BOLTED THERETO WITH 1/2" DIAMETER x 8" BOLTS AT TOP, BOTTOM AND MID-HEIGHT.

20. PLYWOOD SHALL BE INDICATED ON PLANS AND DETAILS. ALL HORIZONTAL PLYWOOD SHALL BE LAID WITH FACE GRAIN PERPENDICULAR TO JOISTS. FLOOR AND ROOF SHEATHING SHALL HAVE A PANEL INDEX OF 32/16 (UNO)

21. FLOOR JOISTS AND ROOF JOISTS SHALL BE BLOCKED AT 8'-0" OC. UNLESS CLOSER SPACING OR MORE RESTRICTIVE REQUIREMENTS ARE SPECIFIED.

22. FOR FLUSH FRAMING OR JOISTS, USE SIMPSON 'U' JOIST OR EQUAL.

23. ALL POST SHALL BE 4x WIDTH OF BEAM MINIMUM EXCEPT AS NOTED OTHERWISE.

24. NAILING PLYWOOD TO BE APPROVED BY THE INSPECTOR BEFORE COVERING WITH ROOF OR WALL MATERIALS.

25. STRUCTURAL MEMBER SHALL NOT BE CUT FOR PIPES, ETC. UNLESS SPECIFICALLY NOTED OR DETAILED. PLUMBERS AND ELECTRICIANS SHALL CHECK STRUCTURAL PLANS FOR ALL DUCTS, SLEEVES, ETC. FOR ANY INTERFERENCE WITH STRUCTURAL MEMBERS. IF ANY INTERFERENCES OCCUR OBTAIN PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

26. PARTITION SUPPORT AT FLOOR FRAMING: DOUBLE JOISTS UNDER PARTITIONS WHICH ARE PARALLEL TO JOISTS AND PROVIDE SOLID FULL DEPTH BLOCKING UNDER PARTITIONS WHICH ARE PERPENDICULAR TO JOISTS.

27. ALL METAL CONNECTORS, HANGERS AND STRAPS SHALL BE FULLY BOLTED OR NAILED TO DEVELOP FULL STRENGTH PER MANUFACTURER'S SPECIFICATIONS.

28. 2x SOLID BLOCKING SHALL BE PLACED BETWEEN JOISTS AND RAFTERS AT ALL SUPPORTS.

29. EXTERIOR EXPOSED CONNECTORS: PROVIDE HOT DIPPED GALVANIZED OR STAINLESS STEEL CONNECTORS AND FASTENERS.

30. NON-LOAD BEARING WALL:

STUD SIZE	MAX HEIGHT
2x4 STUD @ 16" OC	10'-0"
2x6 STUD @ 16" OC	18'-0"

31. ALL WOOD FRAMING SHALL COMPLY WITH CHAPTER 23 OF THE CBC, UNO.

32. ALL SIMPSON SDS SCREWS CONNECTING TO STEEL BACKING ARE TO BE LOCATED IN PRE-DRILLED HOLES PER ICC-ES REPORT NO. ESR-2236.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI/AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", ANSI/AISC 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS", AND AISI/AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AS AMENDED BY CALIFORNIA BUILDING CODE (CBC) SECTIONS 2203A, 2204A AND 2205A.

2. SEISMIC FORCE RESISTING SYSTEM (SFRS) IS THAT PART OF THE STRUCTURAL SYSTEM THAT HAS BEEN CONSIDERED IN THE DESIGN TO PROVIDE THE REQUIRED RESISTANCE TO THE SEISMIC FORCES PRESCRIBED IN ASCE/SEI 7.

3. STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS, UNLESS NOTED OTHERWISE ON DRAWINGS:

    WIDE FLANGE SHAPES.....ASTM A992
    CHANNELS, ANGLES, M- & S-SHAPES.....ASTM A36
    PIPES.....ASTM A53, GRADE B (Fy=35 KSI)
    ROUND HOLLOW STRUCTURAL SECTIONS.....ASTM A500, GRADE B (Fy=42 KSI)
    RECTANGULAR HOLLOW STRUCTURAL SECTIONS.....ASTM A500, GRADE B (Fy=46 KSI)
    PLATES.....ASTM A36 (UNO)
    ANCHOR BOLTS.....ASTM F1554, GRADE 36 (UNO)
    UNFINISHED MACHINE BOLTS.....ASTM A307
    THREADED ROUND STOCK.....ASTM A36

    FURNISH READILY IDENTIFIABLE STRUCTURAL STEEL IN COMPLIANCE WITH CBC SECTION 2203A.1.

4. ANCHOR STUDS SHALL BE NELSON TYPE S3L OR TYPE H4L FLUX-FILLED HEADED CONCRETE ANCHORS (ICC EVALUATION SERVICE REPORT ER-2614), OR AN APPROVED EQUAL, AND SHALL BE MADE FROM COLD DRAWN, LOW CARBON STEEL CONFORMING TO ASTM A29, GRADES C1010 THROUGH C1020, WITH A MINIMUM TENSILE STRENGTH OF 65 KSI. STUD WELDING TEST AND INSPECTION SHALL CONFORM TO AWS D1.1, CHAPTER 7.

5. PRIOR TO FABRICATION, SUBMIT SHOP DRAWINGS TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND, UPON REQUEST, TO GOVERNING CODE AUTHORITY.

6. HOURLY FIRE RESISTIVE REQUIREMENTS FOR STRUCTURAL STEEL MEMBERS SHALL BE DETERMINED USING CBC TABLE 601. BUILDING TYPES OF CONSTRUCTION AND FIREPROOFING MATERIALS ARE AS INDICATED ON ARCHITECTURAL DRAWINGS.

7. ALL STEEL NOT ENCASED IN CONCRETE, MASONRY, OR FIREPROOFING SHALL BE SHOP PRIMED AND PAINTED PER SPECIFICATIONS, EXCEPT FOR TOP FLANGE OF BEAMS SUPPORTING METAL DECK. ANY ABRASIONS OR UNPAINTED AREAS SHALL BE TOUCHED UP AFTER ERECTION.

8. ALL STRUCTURAL STEEL AND MISCELLANEOUS METALS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.

9. WELDING SHALL CONFORM TO LATEST EDITION OF ANSI/AWS D1.1, AS AMENDED IN CBC SECTION 2204A.1.

    A. WELDING PROCESS SHALL BE ELECTRIC ARC USING E70XX ELECTRODES. SUBMERGED ARC PROCESS (SAW) WITH AUTOMATIC WELDING MAY BE USED AS AN ALTERNATIVE.
    B. WELDERS SHALL BE CERTIFIED TO CONFORM WITH AWS STANDARDS AND APPROVED BY THE GOVERNING CODE AUTHORITY.
    C. SHOP WELDING, INCLUDING ULTRASONIC TESTING OF FULL PENETRATION GROOVE WELDS, SHALL BE PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR.
    D. MINIMUM FILLET WELD SIZE SHALL CONFORM TO AISC SPECIFICATION TABLE J2.4. WELDS LENGTHS NOTED ON DRAWINGS ARE THE NET EFFECTIVE LENGTHS REQUIRED.
    E. FIELD WELD SYMBOLS NOTED ON THE DRAWINGS SHOW ENGINEERING INTENT, BUT NO ATTEMPT HAS BEEN MADE TO CLASSIFY ALL WELDS. AT FABRICATOR'S OPTION, ANY WELD INDICATED AS A FIELD WELD MAY BE SHOP WELDED AND ANY WELD INDICATED AS A SHOP WELD MAY BE FIELD WELDED.

ROUGH CARPENTRY AND TIMBER

1. ALL LUMBER USED FOR STRUCTURAL PURPOSE SHALL BE DOUGLAS FIR-LARCH, COAST REGION, GRADED IN ACCORDANCE WITH THE WEST COAST LUMBER INSPECTION BUREAU. ALL LUMBER SHALL BE LESS THAN 19% MOISTURE CONTENT AT TIME OF INSTALLATION AND SHALL COMPLY WITH THE DOC PS20 OR EQUIVALENT.

2. THE MINIMUM GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON PLANS:

    GRADE FOR HORIZONTAL FRAMING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON PLANS:

2X	D.F. #1
4X12 OR SMALLER	D.F. #1
4X14 OR LARGER	D.F. #1
6X OR LARGER	D.F. #1

    GRADE FOR VERTICAL FRAMING MEMBERS (STUDS AND POST) SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON PLANS:

STUDS	D.F. #1
4X4 OR 4X6	SAME AS STUDS
6X6 OR LARGER	D.F. #1

    GRADE FOR MISCELLANEOUS FRAMING MEMBERS IN SHEAR WALLS

SILL PLATES	P.T.D.F. No.1
SOLE PLATES	D.F. No.1
SHEAR BLOCKING	D.F. No.1
TOP PLATES	D.F. No.1

    GRADE FOR MISCELLANEOUS FRAMING MEMBERS IN OTHER WALLS

2X / 3X SILL PLATE	P.T.D.F. STANDARD
TOP & SOLE PLATE, BLOCKING	D.F. STANDARD

    NOTE: ALL BLOCKING SHALL BE CUT TO FIT FLUSH AGAINST SHEATHING AND THE ADJOINING FRAMING MEMBERS.

3. PLYWOOD: EACH SHEET OF PLYWOOD SHALL BE IDENTIFIED WITH THE GRADE TRADE MARK OF AN APPROVED TESTING AND GRADING AGENCY. THE SHEATHING SHALL MEET THE REQUIREMENTS OF PRODUCT STANDARD (DOC) PS1 AND PS2 OR APA PRP-108. INSTALL SHEATHING PANELS IN A DIRECTION AS SHOWN ON PLANS. PANELS WITH DIMENSION LESS THAN 24 INCHES IN ANY DIRECTION SHALL NOT BE USED UNLESS ALL EDGES ARE BLOCKED WITH MIN 2x FRAMING MEMBERS. PANELS INSTALLED AT LOCATIONS PERMANENTLY EXPOSED TO WEATHER SHALL BE GRADED WITH EXTERIOR EXPOSURE.

    ROOF SHEATHING

THICKNESS	PER PLAN
EXPOSURE	EXPOSURE 1
PLAN INDEX	32/16
NAILING	PER PLAN
BLOCKING	PER PLAN

    SHEAR PANEL

THICKNESS	PER SHEAR WALL SCHEDULE
EXPOSURE	EXPOSURE 1
PLAN INDEX	24/0
NAILING	PER SHEAR WALL SCHEDULE
BLOCKING	BLOCKED

    SPECIAL INSPECTION BY A PROJECT INSPECTOR IS REQUIRED WHERE THE FASTENER SPACING OF THE SHEATHING IS LESS THAN 4 INCHES ON CENTER.

4. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED, SEE SPECIFICATIONS AND CBC SECTION 2304.12.1. PROVIDE HOT DIPPED GALVANIZED OR STAINLESS STEEL FASTENERS AND HARDWARE CONNECTORS AS REQUIRED TO PREVENT CORROSION AT PRESSURE TREATED STRUCTURAL LUMBERS (INCLUDING ANCHOR BOLTS, NAILS, WASHERS, PLATES, HANGERS, CLIPS, ETC.) IN ACCORDANCE WITH CBC SECTION 2304.10.5.

    NAIL DEFINITIONS

DESIGNATION	DIAMETER	LENGTH
16d COMMON	0.162	3-1/2"
16d SINKER	0.148	3-1/4"
16d SHORT	0.131	3-1/4"
8d COMMON	0.131	3-1/2"
10d COMMON	0.148	3"

5. NAILS: ALL NAILS SHALL BE COMMON NAILS WITH DIMENSIONAL PROPERTIES COMPLYING WITH ASTM F1667 UNO. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS FOLLOWS:

    80 KIPS PER SQUARE INCH (KSI) (551 MPa) FOR SHANK DIAMETERS LARGER THAN 0.177 INCH 4.50MM) BUT NOT LARGER THAN 0.254 INCH (6.45MM)

    90 KSI (620 MPa) FOR SHANK DIAMETERS LARGER THAN 0.142 INCH (3.61MM) BUT NOT LARGER THAN 0.177 INCH (4.50MM)

    100KSI (689 MPa) FOR SHANK DIAMETERS OF AT LEAST 0.099 INCH (2.51MM) BUT NOT LARGER THAN 0.142 INCH (3.61MM)

    INSTALL NAILS IN COMPLIANCE WITH CBC CHAPTER 23, INCLUDING TABLE 2304.10.1 UNO.

6. BOLTS: ASTM A307 BOLTS WITH A STANDARD CUT WASHER UNDER BOLT HEAD AND NUT. PROVIDE HOLES FOR BOLTS 1/32 TO 1/16 INCH LARGER THAN NOMINAL BOLT DIAMETER. RE-TIGHTEN BOLTS PRIOR TO APPLICATION OF SHEATHING OR FINISH. BOLTS SHALL MEET REQUIREMENTS OF ANSI/ASMF STANDARD B18.2.1. SEE 2018 NDS FOR BOLT DIMENSIONS.

7. LAG SCREWS: LAGS SHALL MEET REQUIREMENTS OF ANSI/ASME STANDARD B18.2.1. SEE 2018 NDS FOR LAG SCREW DIMENSIONS. PRE-DRILL ALL HOLES. HOLE AT SHANK PORTION TO MATCH DIAMETER OF SHANK. HOLES AT THREADED PORTION TO BE 60 TO 70 PERCENT OF SHANK DIAMETER AND EQUAL TO LENGTH OF THREADED PORTION UNO. USE SOAP AND LUBRICATANTS TO FACILITATE INSTALLATION. DRIVING WITH A HAMMER IS NOT PERMITTED.

8. PLATE WASHERS: PROVIDE UNDER HEADS OR NUTS OF BOLTS (INCLUDING ANCHOR BOLTS AT SILL PLATES) AND LAG SCREWS WHEN ANCHORING WOOD. 3x3x1/4 (MIN)

9. WOOD HARDWARE: CONNECTORS AND HOLDOWNS: MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. COMPLYING WITH CORRESPONDING ICC OR IAPMO EVALUATION.

10. ANCHOR BOLTS: ALL ANCHOR BOLTS INTO CONCRETE TO BE A36 THREADED STOCK UNLESS OTHERWISE NOTED. PROVIDE FULL BODY DIAMETER BOLTS.

11. NOTCHING OR CUTTING STRUCTURAL LUMBER: NOT PERMITED UNLESS SPECIFICALLY DETAILED OR INDICATED.

12. LATERAL SUPPORT FOR BEAMS, RAFTERS AND JOISTS: CBC SECTION 2308.4.6. (JOISTS SHALL BE SUPPORTED LATERALLY AT THE ENDS AND AT EACH SUPPORT BY SOLID BLOCKING EXCEPT WHERE THE ENDS OF JOISTS ARE NAILED TO A HEADER, AND/OR RIM JOIST OR TO AN ADJOINING STUD OR BY OTHER APPROVED MEANS. SOLID BLOCKING SHALL NOT BE LESS THAN 2 INCHES (51mm) IN THICKNESS AND FULL DEPTH OF JOIST.)

13. WOOD STUDS:
    A. STUD WALL BRACING IN STUD WALLS NOT PLYWOOD SHEATHED: COMPLIANCE WITH CBC SECTION 2308.6.
    B. FIREBLOCKING: CBC SECTION 718.2 UNLESS CLOSER SPACING OR MORE RESTRICTIVE REQUIREMENTS ARE SPECIFIED.
    C. NOTCHING OR BORING HOLES IN WOOD STUDS PER CBC SECTION 2308.5.9 AND 2305.5.10.

14. ALL NAILING, BOLTING, NOTCHING, CUTTING AND BORING OR WOOD SHALL CONFORM TO CBC.

15. BEAMS OR DRAG STRUTS: LAMINATED OR DOUBLE JOISTS SHALL BE SPIKED TOGETHER WITH 16d NAILS AT 9" OC STAGGERED. IF USING 3 OR MORE JOISTS TOGETHER, CONNECT WITH ½" DIA. MACHINE BOLTS AT 24" OC STAGGERED.

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PBK

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PROJECT NUMBER 20575

DATE:	11/10/20
DRAWN BY:	RT
CHECKED BY:	RB

REVISIONS

No.	Description	Date

100% CD SUBMITTAL

GENERAL NOTES

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NAILING SCHEDULE (2019 CALIFORNIA BUILDING CODE TABLE 2304.10.1)

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
ROOF		
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	(3)-8d COMMON (2 1/2" x 0.131") OR (3)-10d BOX (3" x 0.128") OR (3)-3" x 0.131" NAILS	EACH END, TOENAIL
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	(2)-8d COMMON (2 1/2" x 0.131") (2)-3" x 0.131" NAILS	EACH END, TOENAIL
	(2)-16d COMMON (3 1/2" x 0.162") (3)-3" x 0.131" NAILS	END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON (3 1/2" x 0.162") @ 6" OC 3" x 0.131" NAILS @ 6" OC	FACE NAIL
2. CEILING JOISTS TO TOP PLATE	(3)-8d COMMON (2 1/2" x 0.131") OR (3)-10d BOX (3" x 0.128") OR (3)-3" x 0.131" NAILS	EACH JOIST, TOENAIL
3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	(3)-16d COMMON (3 1/2" x 0.162") OR (4)-10d BOX (3" x 0.128") OR (4)-3" x 0.131" NAILS	FACE NAIL
4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	PER TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	(3)-10d COMMON (3" x 0.148") OR (4)-10d BOX (3" x 0.128") OR (4)-3" x 0.131" NAILS	FACE NAIL
6. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 2308.7.5)	(3)-10d COMMON (3" x 0.148") OR (3)-16d BOX (3 1/2" x 0.135") OR (4)-10d BOX (3" x 0.128") OR (4)-3" x 0.131" NAILS	TOENAIL[d]
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2 INCH RIDGE BEAM	(2)-16d COMMON (3 1/2" x 0.162") OR (3)-10d BOX (3" x 0.128") OR (3)-3" x 0.131" NAILS	END NAIL
	(3)-10d COMMON (3 1/2" x 0.148") OR (4)-16d BOX (3 1/2" x 0.135") OR (4)-10d BOX (3" x 0.128") OR (4)-3" x 0.131" NAILS	TOENAIL
WALL		
8. STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2 x 0.162")	24" OC FACE NAIL
	10d BOX (3" x 0.128") OR 3" x 0.131" NAILS	16" OC FACE NAIL
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON (3 1/2 x 0.162"), OR	16" OC FACE NAIL
	16d BOX (3 1/2" x 0.135"), OR	12" OC FACE NAIL
	3" x 0.131" NAILS	12" OC FACE NAIL
10. BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON (3 1/2 x 0.162"), OR	16" OC EACH EDGE, FACE NAIL
	16d BOX (3 1/2" x 0.135")	12" OC EACH EDGE, FACE NAIL
11. CONTINUOUS HEADER TO STUD	(4)-8d COMMON (2 1/2" x 0.131") OR (4)-10d BOX (3" x 0.128")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3 1/2" x 0.162") OR	16" OC FACE NAIL
	10d BOX (3" x 0.128") OR 3" x 0.131" NAILS	12" OC FACE NAIL
13. TOP PLATE TO TOP PLATE, AT END JOINTS	(8)-16d COMMON (3 1/2" x 0.162") OR (12)-10d BOX (3" x 0.128") OR (12)-3" x 0.131" NAILS	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3 1/2 x 0.162"), OR	16" OC FACE NAIL
	16d BOX (3 1/2" x 0.135") OR 3" x 0.131" NAILS	12" OC FACE NAIL
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	(2)-16d COMMON (3 1/2" x 0.162") OR (3)-16d BOX (3 1/2" x 0.135") OR (4)-3" x 0.131" NAILS	16" OC FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	(4)-8d COMMON (2 1/2" x 0.131") OR (4)-10d BOX (3" x 0.128") OR (4)-3" x 0.131" NAILS	TOENAIL
	(2)-16d COMMON (3 1/2" x 0.162") OR (3)-10d BOX (3" x 0.128") OR (3)-3" x 0.131" NAILS	END NAIL
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	(2)-16d COMMON (3 1/2" x 0.162") OR (3)-10d BOX (3" x 0.128") OR (3)-3" x 0.131" NAILS	FACE NAIL
18. 1" BRACE TO EACH STUD AND PLATE	(2)-8d COMMON (2 1/2" x 0.131") OR (2)-10d BOX (3" x 0.128") OR (2)-3" x 0.131" NAILS	FACE NAIL
19. 1" x 6" SHEATHING TO EACH BEARING	(2)-8d COMMON (2 1/2" x 0.131") OR (2)-10d BOX (3" x 0.128")	FACE NAIL
20. 1" x 8" AND WIDER SHEATHING TO EACH BEARING	(3)-8d COMMON (2 1/2" x 0.131") OR (3)-10d BOX (3" x 0.128")	FACE NAIL
FLOOR		
21. JOIST TO SILL, TOP PLATE, OR GIRDER	(3)-8d COMMON (2 1/2" x 0.131") OR (3)-10d BOX (3" x 0.128") OR (3)-3" x 0.131" NAILS	TOENAIL
22. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON (2 1/2" x 0.131") OR 10d BOX (3" x 0.128") OR 3" x 0.131" NAILS	6" OC TOENAIL
23. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	(2)-8d COMMON (2 1/2" x 0.131") OR (2)-10d BOX (3" x 0.128")	FACE NAIL
24. 2" SUBFLOOR TO JOIST OR GIRDER	(2)-16d COMMON (3 1/2" x 0.162")	FACE NAIL
25. 2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	(2)-16d COMMON (3 1/2" x 0.162")	EACH BEARING, FACE NAIL
26. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d COMMON (4" x 0.192")	32" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	10d BOX (3" x 0.128") OR 3" x 0.131" NAILS	24" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
	AND (2)-20d COMMON (4" x 0.192") OR (3)-10d BOX (3" x 0.128") OR (3)-3" x 0.131 NAILS	ENDS AND AT EACH SPLICE, FACE NAIL
27. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	(3)-16d COMMON (3 1/2" x 0.162") OR (4)-10d BOX (3" x 0.128") OR (4)-3" x 0.131" NAILS	EACH JOIST OR RAFTER, FACE NAIL
28. JOIST TO BAND JOIST OR RIM JOIST	(3)-16d COMMON (3 1/2" x 0.162") OR (4)-10d BOX (3" x 0.128") OR (4)-3" x 0.131" NAILS	END NAIL
29. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	(2)-8d COMMON (2 1/2" x 0.131") OR (2)-10d BOX (3" x 0.128") OR (2)-3" x 0.131" NAILS	EACH END, TOENAIL

WOOD STRUCTURAL PANELS (WSP), SUBFLOOR AND ROOF SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING[a]

		EDGES (INCHES)	INTERMEDIATE SUPPORTS (INCHES)
30. 3/8" - 1/2"	6d COMMON OR DEFORMED (2" x 0.113") (SUBFLOOR AND WALL)	6	12
	8d COMMON OR DEFORMED (2 1/2" x 0.131") (ROOF)	6	12
	2 3/8" x 0.113" NAIL (SUBFLOOR AND WALL)	6	12
	2 3/8" x 0.113" NAIL (ROOF)	4	8
31. 19/32" - 3/4"	8d COMMON (2 1/2" x 0.131") OR 6d DEFORMED (2" x 0.113")	6	12
	2 3/8" x 0.113" NAIL	4	8
32. 7/8" - 1 1/4"	10d COMMON (3" x 0.148") OR 8d DEFORMED (2 1/2" x 0.131")	6	12
OTHER EXTERIOR WALL SHEATHING			
33. 1/2" FIBERBOARD SHEATHING[b]	1 1/2" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER)	3	6
34. 25/32" FIBERBOARD SHEATHING[b]	1 3/4" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER)	3	6
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING			
35. 3/4" AND LESS	8d COMMON (2 1/2" x 0.131") OR 6d DEFORMED (2" x 0.113")	6	12
36. 7/8" - 1"	8d COMMON (2 1/2" x 0.131") OR 8d DEFORMED (2 1/2" x 0.131")	6	12
37. 1 1/8" - 1 1/4"	10d COMMON (3" x 0.148") OR 8d DEFORMED (2 1/2" x 0.131")	6	12

FOR SI: 1 inch = 25.4mm

A) NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
B) SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NON-STRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
C) WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.
D) FOR FASTENERS USED TO ATTACH EXTERIOR WALL COVERINGS OR IN CONTACT WITH PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SEE CBC SECTION 2304.10.

SEISMIC ANCHORAGE OF EQUIPMENT

1. SEISMIC ANCHORAGE OF THE EQUIPMENT ON THIS PROJECT IS SHOWN ON THE DRAWINGS AS FOLLOWS:
   A. ARCHITECTURALLY SPECIFIED EQUIPMENT AND CASE WORK - ANCHORAGE SCHEDULES AND DETAILS SHOWN ON ARCHITECTURAL DRAWINGS.
   B. MECHANICAL, ELECTRICAL AND PLUMBING (MEP) EQUIPMENT - ANCHORAGE SCHEDULES AND DETAILS ARE SHOWN ON THE M, E, P DRAWINGS.
   C. SPORTS EQUIPMENT AND KITCHEN EQUIPMENT - ANCHORAGE DETAILS SHOWN ON STRUCTURAL DRAWINGS. DRAWINGS.
2. SEISMIC ANCHORAGE OF ALL EQUIPMENTS SHALL BE IN ACCORDANCE WITH THE FOLLOWING DESIGN CRITERIA:
   A. 2019 CALIFORNIA BUILDING CODE (CBC).
   B. SEISMIC DESIGN FOR THE ANCHORAGE OF EQUIPMENT SHALL BE PER ASCE 7, CHAPTER 13 AND CBC SECTION 1613A AND 1615A AND 1616A USING THE FOLLOWING COEFFICIENTS:
      RISK OCCUPANCY = II , SDS & SDI AS NOTED ON SHEET S0.1.
      IP IN ACCORDANCE WITH SECTION 13.1.3.
      a_P AND R_P IN ACCORDANCE WITH TABLE 13.5-1 AND 13.6-1 OF ASCE 7, CHAPTER 13.
3. ANCHORAGE OF ALL EQUIPMENT TO BE INSTALLED, AS A PART OF THIS PROJECT, SHALL BE DETAILED ON THESE PLANS, EXCEPT FOR THE FOLLOWING:
   A. EQUIPMENT WEIGHING LESS THAN 400 POUNDS SUPPORTED DIRECTLY ON THE FLOOR OR ROOF.
   B. TEMPORARY OR MOVABLE EQUIPMENT.
   C. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.
   D. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM WALL.
   E. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER AND THE DEPUTY INSPECTOR, BUT SHALL BE DESIGNED TO RESIST THE LOADS OF ITEM #2 ABOVE.
4. ALL EQUIPMENT ANCHORAGE DESIGNS THAT ARE TO BE PROVIDED BY CONTRACTOR SHALL BE SUBMITTED WITH INFORMATION LISTED BELOW. THESE DESIGNS WILL BE REVIEWED BY DESIGN TEAM. CONTRACTOR IS RESPONSIBLE FOR RESPONDING AND RESOLVING ALL DESIGN TEAM COMMENTS.
   A. EQUIPMENT ANCHORAGE DETAILS THAT SPECIFY ALL COMPONENTS OF ANCHORAGE AND CLEARLY SHOW HOW AND WHERE CONNECTIONS ARE MADE TO THE STRUCTURE.
   B. EQUIPMENT ANCHORAGE CALCULATIONS THAT CHECK ALL OF THE COMPONENTS OF THE EQUIPMENT ANCHORAGE SYSTEM. THE CALCULATIONS SHALL CLEARLY SHOW THE MAGNITUDE AND LOCATION OF THE FORCES IMPOSED ON THE STRUCTURE.
   C. DETAILS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA.
5. "WEIGHT" REFERS TO THE MAXIMUM OPERATING WEIGHT, UNLESS NOTED OTHERWISE.

POST INSTALLED ANCHORS

1. ALL POST INSTALLED ANCHORS SHALL COMPLY WITH REQUIREMENTS OF THE CORRESPONDING ICC-ESR REPORTS.
2. POST-INSTALLED ANCHORS OF EQUAL QUALITY AND WITH CURRENT ICC-ES REPORT MAY BE SUBSTITUTED IF APPROVED BY THE ARCHITECT (STRUCTURAL ENGINEER).
3. DRILL AND EPOXY ANCHORS:
   A. "HILTI HIT-HY 200" EPOXY ANCHORS IN ACCORDANCE WITH ICC-ES REPORT NO. 3187 FOR CONCRETE.
4. EXPANSION ANCHORS:
   A. HILTI KWIK BOLT TZ (CARBON STEEL) EXPANSION ANCHORS IN ACCORDANCE WITH ICC-ES REPORT ESR-1917 INTO CONCRETE.
5. SCREW ANCHORS:
   A. HILTI KWIK HUS-EZ (KH-EZ) SCREW ANCHORS IN ACCORDANCE WITH ICC-ES REPORT ESR-3027 INTO CONCRETE.
   B. SIMPSON TITEN HD SCREW ANCHOR IN ACCORDANCE WITH ICC-ES REPORT ESR-2713 INTO CONCRETE.
6. POWDER DRIVEN FASTENERS: LOW-VELOCITY POWDER DRIVEN FASTENERS IN ACCORDANCE WITH ICC-ES REPORT NO. ESR-2269 INTO CONCRETE.
7. INSTALLATION: PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND REFERENCED ICC EVALUATION REPORT.
   A. DRILLING HOLES IN EXISTING CONCRETE OR MASONRY: USE ONLY NON-REBAR CUTTING DRILL BITS TO DRILL HOLES. LOCATE EXISTING REBAR BY NON-DESTRUCTIVE MEANS PRIOR TO DRILLING HOLES. DO NOT CUT OR DAMAGE EXISTING REBAR. PROVIDE MINIMUM 1" CLEARANCE BETWEEN REINFORCING AND ANCHOR.
   B. DELETERIOUS MATERIALS: KEEP ANCHORS FREE OF DUST,GREASE, AND OTHER MATERIALS WHICH WILL IMPAIR BOND WITH CONCRETE.
   C. ALL ANCHORS SHALL MEET THE MINIMUM EMBEDMENT AND SPACING, EDGE DISTANCE AND SIDE THICKNESS CRITERIA ESTABLISHED BY THE RELEVANT ICC-ES REPORT.
      UNLESS NOTED OTHERWISE IN REPORT, ANCHOR EDGE DISTANCE SHALL BE A MINIMUM OF 10 BOLT DIAMETERS FROM ANY FREE EDGE OF THE SLAB AND SHALL BE SPACED A MINIMUM 12 BOLT DIAMETERS CENTER TO CENTER.
   D. DO NOT DRILL HOLES WITHIN 4 INCHES OF EXISTING ELECTRICAL OUTLETS THAT ARE EMBEDDED IN SUBSTRATE.
8. BRING TO THE ATTENTION OF THE ARCHITECT (STRUCTURAL ENGINEER) ANY POST-INSTALLED ANCHOR LOCATION THAT CANNOT COMPLY WITH THE PARAMETERS STATED HEREIN AND INDICATED ON THE DRAWINGS.
9. TESTING AND INSTALLATION OF POST-INSTALLED ANCHORS SHALL COMPLY WITH THE FOLLOWING:

A. EPOXY ANCHORS

1. SHALLOW ANCHORS (EMBEDMENT LESS THAN 8 ANCHOR DIAMETERS) RESISTING DIRECT TENSION LOAD ARE NOT PERMITTED.
2. ANCHORS SHALL BE TENSION TESTED PER CBC SECTION - 1910A.5, AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING TESTING
3. UNO ON PLANS, THE TENSION TEST LOAD SHALL EQUAL TWICE THE ALLOWABLE LOAD FOR THE SPECIFIC LOCATION OF THE ANCHOR TO BE TESTED OR 80% OF THE YIELD STRENGTH OF THE BOLT, WHICHEVER IS LESS.
4. THE TEST PROCEDURE SHALL COMPLY WITH THAT OF EXPANSION TYPE ANCHORS LISTED ABOVE. HOWEVER, TORQUE TESTING OF EPOXY ANCHORS IS NOT PERMITTED.
5. WHERE EPOXY DOWELS ARE USED AS SHEAR DOWELS ACROSS COLD JOINTS IN SLABS ON GRADE, TESTING OF THESE DOWELS ARE NOT REQUIRED.

B. EXPANSION ANCHOR BOLTS

1. ALL FIELD INSTALLED CONCRETE EXPANSION ANCHORS SHALL BE APPROVED FOR THE TYPE AND INSTALLATION, FOR ITS APPLICATION, AND MATERIALS. ALL BOLTS SHALL HAVE AN APPROVED ICC EVALUATION REPORT.
2. ALL EXPANSION TYPE ANCHORS SHALL BE TENSION TESTED AS REQUIRED BY CBC 1910A.5 WHERE ANCHORS ARE USED FOR NON-STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE, 50% OF ALL ANCHORS AND EACH BOLT GROUP SHALL BE TENSION TESTED.
3. ALL ANCHORS SHALL BE TESTED PER CORRESPONDING ICC-ESR REPORTS AND AS FOLLOWS:
   A. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR A WEDGE AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY.
   B. APPLY PROOF TEST LOADS TO WEDGE AND SLEEVE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE THE NUT AND INSTALL A THREADED COUPLER NUT TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
   C. FOR SLEEVE/SHELL INTERNALLY THREADED CATEGORIES, VERIFY THAT THE ANCHOR IS NOT PREVENTED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURES. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE FIXTURE(S) PRIOR TO TESTING.
   D. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED. PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
   E. TEST EQUIPMENT SHALL BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
   F. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS: HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
      TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: WEDGE OR SLEEVE TYPE: ONE-HALF (1/2) TURN OF THE NUT ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/8 IN. SLEEVE ANCHOR ONLY.
   G. TORQUE TEST SHALL BE PERFORMED WITH THE INSTALLATION TORQUE SPECIFIED IN THE FOLLOWING TABLE FOR EXPANSION ANCHORS INSTALLED IN CONCRETE:

HILTI KB-TZ TORQUE TEST VALUES PER ICC REPORT #ESR-1917				
DIAMETER	3/8"	1/2"	5/8"	3/4"
TORQUE	25 FT-LB	40 FT-LB	60 FT-LB	110 FT-LB

THE ANCHOR MANUFACTURER RECOMMENDED INSTALLATION TORQUE AS PUBLISHED IN THE CURRENT ICC-ES REPORT SHALL TAKE PRECEDENCE OVER TABULATED VALUES ABOVE.

C. LOW VELOCITY POWDER DRIVEN FASTENERS (SHOTPINS)

1. ALL FASTENERS TO COMPLY WITH ASCE 7-16 SECTION 13.4.5.

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PROJECT NUMBER 20575
DATE: 11/10/20
DRAWN BY: RT
CHECKED BY: RB

REVISIONS

No.	Description	Date

100% CD SUBMITTAL

GENERAL NOTES

S0.03

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STATEMENT OF SPECIAL INSPECTIONS (CONTINUED)

7. APPROVED AGENCY SHALL PERFORM SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE IN ACCORDANCE WITH CBC SECTION 1705A FOR THE FOLLOWING WORK.
   - A. STRUCTURAL WOOD: CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING FIELD GLUING OPERATIONS OF ELEMENTS OF THE SFRS. PERIODIC INSPECTION IS REQUIRED FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SFRS, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG-STRUTS, BRACES, SHEAR PANELS AND HOLD-DOWNS.
     1) SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER COMPONENTS OF THE SLRS, WHERE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.
   - B. ARCHITECTURAL COMPONENTS: PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE ERECTION AND FASTENING OF EXTERIOR CLADDING, INTERIOR AND EXTERIOR NONBEARING WALLS, AND INTERIOR AND EXTERIOR VENEER.
   - C. MECHANICAL AND ELECTRICAL COMPONENTS: SPECIAL INSPECTION FOR MECHANICAL AND ELECTRICAL EQUIPMENT AS FOLLOWS:
     1) PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS.
     2) PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION OF ANCHORAGE OF OTHER ELECTRICAL EQUIPMENT.
     3) PERIODIC SPECIAL INSPECTION IS REQUIRED DURING INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS INTENDED TO HAZARDOUS MATERIALS AND THEIR ASSOCIATED MECHANICAL UNITS.
     4) PERIODIC SPECIAL INSPECTION IS REQUIRED DURING INSTALLATION AND ANCHORAGE OF DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS.
   - D. PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION AND ANCHORAGE OF VIBRATION ISOLATION SYSTEMS WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE 0F 0.25 INCH OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT. STORAGE RACKS: PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE ANCHORAGE OF STORAGE RACKS 8 FEET OR GREATER IN HEIGHT PER CBC SECTION 1705A.12.7.

8. APPROVED AGENCY SHALL PERFORM TESTING AND QUALIFICATION FOR SEISMIC RESISTANCE IN ACCORDANCE WITH CBC SECTION 1705A.12 FOR THE FOLLOWING WORK.
   1) ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND WHERE THE REQUIREMENTS OF ASCE 7 SECTION 13.2.1, ITEM 2 ARE MET BY SUBMITTAL OF MANUFACTURER'S CERTIFICATION IN ACCORDANCE WITH ITEM 3, SHALL COMPLY WITH CBC SECTION 1705A.12.5 & 1705A.12.6.

9. DEFINITIONS
   - A. CONTINUOUS – THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
   - B. PERIODIC – THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF WORK.

NOTE: REFER TO DSA-103 FORM FOR ALL STRUCTURAL TESTING & SPECIAL INSPECTION REQUIREMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATION, AND DSA-103 FORM, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

STRUCTURAL OBSERVATION

1. STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH SECTION 1704A.6 OF THE CALIFORNIA BUILDING CODE (CBC). STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION AT THE CONSTRUCTION SITE OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES, AND THE COMPLETE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY THE DIVISION OF STATE ARCHITECT SPECIAL INSPECTOR OR THE DEPUTY INSPECTOR.

2. THE OWNER SHALL EMPLOY A STATE OF CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER OR LICENSED ARCHITECT TO PERFORM THE STRUCTURAL OBSERVATION. THE GOVERNING CODE AUTHORITY RECOMMENDS THE USE OF THE ENGINEER OR ARCHITECT, OR HIS/HER DESIGNEE RESPONSIBLE FOR THE STRUCTURAL DESIGN WHO ARE INDEPENDENT OF THE CONTRACTOR.

3. THE PROJECT INSPECTOR SHALL COORDINATE AND CALL FOR A MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT SUBMITTED TO THE PROJECT INSPECTOR.

4. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE LISTED SIGNIFICANT CONSTRUCTION STAGES ON THE "STRUCTURAL OBSERVATION/SIGNIFICANT CONSTRUCTION STAGES TABLE"(HERE IN BELOW) REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER.

5. THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT FOR EACH SIGNIFICANT STAGE OF CONSTRUCTION OBSERVED. THE ORIGINAL OF THE STRUCTURAL OBSERVATION REPORT SHALL BE SENT TO THE PROJECT INSPECTOR'S OFFICE AND SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER. ONE COPY OF THE OBSERVATION REPORT SHALL BE ATTACHED TO THE APPROVED PLANS. THE COPY ATTACHED TO PLANS SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER OR THEIR DESIGNEE. COPIES OF REPORT SHALL ALSO BE GIVEN TO THE OWNER, CONTRACTOR, AND DEPUTY INSPECTOR. ANY DEFICIENCIES NOTED ON THE OBSERVATION REPORT WILL BECOME THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OR ARCHITECT OF RECORD TO VERIFY ITS COMPLETION BY THE STRUCTURAL OBSERVER.

6. A FINAL OBSERVATION REPORT MUST BE SUBMITTED WHICH SHOWS THAT ALL OBSERVED DEFICIENCIES WERE RESOLVED AND STRUCTURAL SYSTEM GENERALLY CONFORMS WITH THE APPROVED PLANS AND SPECIFICATIONS. THE DIVISION OF THE STATE ARCHITECT WILL NOT ACCEPT THE STRUCTURAL WORK WITHOUT THIS FINAL OBSERVATION REPORT AND THE CORRECTION OF SPECIFIC DEFICIENCIES NOTED DURING NORMAL BUILDING INSPECTION.

7. THE STRUCTURAL OBSERVER SHALL PROVIDE THE ORIGINAL STAMPED AND SIGNED STRUCTURAL OBSERVATION REPORT TO THE DEPUTY INSPECTOR.

8. WHEN THERE IS A NEED TO REPLACE THE STRUCTURAL OBSERVER OF RECORD, THE OWNER SHALL:
   - A. NOTIFY THE DEPUTY INSPECTOR IN WRITING BEFORE THE NEXT INSPECTION
   - B. CALL AN ADDITIONAL PRECONSTRUCTION MEETING, AND
   - C. FURNISH THE REPLACEMENT STRUCTURAL OBSERVER WITH A COPY OF ALL PREVIOUS OBSERVATION REPORTS.
   - D. THE NEW STRUCTURAL OBSERVER MUST BE DESIGNATED BY THE STRUCTURAL OR ARCHITECT OF RECORD.

   THE REPLACEMENT STRUCTURAL OBSERVER SHALL APPROVE THE CORRECTION OF THE ORIGINAL OBSERVED DEFICIENCIES UNLESS OTHERWISE APPROVED BY THE OWNER. THE POLICY OF THE OWNER IS TO CORRECT ANY PROPERLY NOTED DEFICIENCIES WITHOUT CONSIDERATION OF THEIR SOURCE.

9. THE ENGINEER OR ARCHITECT OF RECORD WILL DEVELOP ALL CHANGES RELATING TO THE STRUCTURAL SYSTEMS. THE OWNER SHALL REVIEW AND APPROVE ALL CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS.

10. SIGNIFICANT CONSTRUCTION STAGES ARE THE STAGES OF CONSTRUCTION IDENTIFIED BY THE ENGINEER OBSERVER AS SIGNIFICANT AND REQUIRE SITE STRUCTURAL OBSERVATION.

STRUCTURAL OBSERVATION/SIGNIFICANT CONSTRUCTION STAGES TABLE

CONST STAGE	CONST TYPE	ELEMENTS/CONNECTIONS TO BE OBSERVED
FRAMING	WOOD WALLS & ROOF FRAMING	HARDWARE IN PLACE PRIOR TO INSTALLATION OF PLYWOOD WALL PLUS ROOF SHEATING AND DIAPHRAGM NAILING
COMPLETION	OVERALL STRUCTURE	ALL OBSERVED DEFICIENCIES RESOLVED GENERAL CONFORMANCE TO APPROVED DOCUMENTS

STATEMENT OF SPECIAL INSPECTIONS

1. AN APPROVED AGENCY, RETAINED BY THE OWNER AND SATISFACTORY TO ARCHITECT (STRUCTURAL ENGINEER) SHALL PERFORM REQUIRED TESTS AND SPECIAL INSPECTIONS OF THIS CONTRACT AND APPLICABLE CODE. AN APPROVED AGENCY IS AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING TESTS AND/OR FURNISHING INSPECTION SERVICES, WHEN SUCH AN AGENCY IS APPROVED.

2. APPROVED AGENCY SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO GOVERNING CODE AUTHORITY AND THE ARCHITECT (STRUCTURAL ENGINEER). REPORTS SHALL INDICATE WHETHER THE WORK INSPECTED WAS DONE IN CONFORMANCE OR NONCONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. NONCONFORMITIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF NOT CORRECTED, THE NONCONFORMITIES SHALL BE BROUGHT TO THE ATTENTION OF THE GOVERNING CODE AUTHORITY AND THE ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF NONCONFORMITIES SHALL BE SUBMITTED UPON COMPLETION OF WORK.

3. WHERE FABRICATION OF STRUCTURAL MEMBERS AND ASSEMBLIES IS PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF FABRICATED ITEMS ARE REQUIRED IN ACCORDANCE WITH CBC SECTION 1704A.2.5. SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED BY THE DSATO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

4. CONTRACTOR SHALL SUBMIT MATERIAL CERTIFICATION OR LABORATORY TEST REPORTS CERTIFYING MATERIALS ARE OF IDENTIFIABLE TESTED STOCK, COMPLYING WITH PROJECT SPECIFICATIONS, TO THE DISTRICT, APPROVED AGENCY, ARCHITECT (STRUCTURAL ENGINEER) AND, UPON REQUEST, OWNER. IF LABORATORY TEST REPORTS CANNOT BE MADE AVAILABLE, APPROVED AGENCY WILL PERFORM TESTS AS DIRECTED BY ARCHITECT (STRUCTURAL ENGINEER). CONTRACTOR SHALL PAY FOR COSTS RELATED TO TESTS AND INSPECTIONS OF UNIDENTIFIABLE MATERIALS, MATERIALS FURNISHED WITHOUT LABORATORY TEST REPORTS, MATERIALS FOUND DEFICIENT AFTER INITIAL TESTS AND INSPECTIONS, AND/OR MATERIALS REPLACING DEFICIENT MATERIALS.

5. APPROVED AGENCY SHALL SUBMIT MATERIAL TEST REPORTS INDICATING WHETHER TESTED MATERIALS ARE IN COMPLIANCE OR NONCOMPLIANCE WITH CONTRACT DOCUMENTS TO OWNER, CONTRACTOR, ARCHITECT (STRUCTURAL ENGINEER).

6. APPROVED AGENCY SHALL PERFORM SPECIAL INSPECTIONS IN ACCORDANCE WITH CBC SECTION 1705A AND WITH THIS SHEET FOR THE FOLLOWING WORK. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL TEST AND INSPECTION REQUIREMENTS.
   - A. CONCRETE CONSTRUCTION: SEE TABLE 1705A.3 AND CBC SECTION 1705A.3.
   - B. SOILS: SEE TABLE 1705A.6 AND CBC SECTION 1705A.6.
   - C. WOOD CONSTRUCTION:
     1) FABRICATION PROCESS OF PREFABRICATED WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES (SEE NOTE 3 HEREINABOVE).
     2) WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES: SEE CBC SECTION 1705A.5.3.

MECHANICAL, ELECTRICAL AND PLUMBING (MEP) SYSTEMS

1. THE ANCHORAGE DETAILS FOR MEP EQUIPMENT PROVIDED IN THE DRAWINGS HAVE BEEN REVIEWED AND APPROVED BY DSA. CONTRACTOR SHALL SUBMIT THE EQUIPMENT ANCHORAGE INFORMATION LISTED BELOW TO JUSTIFY THE USE OF THE ANCHORAGE DETAILS IN THESE DRAWINGS, FOR REVIEW AND ACCEPTANCY BY THE DESIGN TEAM:
   - A. SHOW THAT THE ACTUAL OPERATING WEIGHT OF EQUIPMENT IS EQUAL TO OR LESS THAN THE EQUIPMENT WEIGHT SHOWN ON THE DRAWINGS.
   - B. SHOW THAT THE ACTUAL HEIGHT OF THE EQUIPMENT AND/OR HEIGHT TO CENTER OF GRAVITY ARE NOT GREATER THAN 10 PERCENT OF THE DIMENSIONS SHOWN ON THE DRAWINGS.
   - C. SHOW THAT THE ACTUAL PLAN DIMENSIONS OF EQUIPMENT (WIDTH AND LENGTH) ARE NOT LESS THAN THE DIMENSIONS SHOWN ON THE DRAWINGS.
   - D. SHOW THAT THE ACTUAL EQUIPMENT ANCHOR DETAILS CLEARLY MATCH THE ANCHORAGE DETAILS SHOWN ON THE DRAWINGS.
2. CONTRACTOR SHALL PROVIDE THE EQUIPMENT ANCHORAGE DESIGN FOR EACH PIECE OF EQUIPMENT WHERE THE ANCHORAGE DETAILS ON THE DRAWINGS DO NOT ADHERE TO NOTE 1, OR ARE BEING SUBSTITUTED. FOR EQUIPMENT THAT THE CONTRACTOR MUST PROVIDE THE ANCHORAGE DESIGN, THE CONTRACTOR SHALL SUBMIT THE ITEMS LISTED BELOW, FOR REVIEW AND ACCEPTANCY BY THE DESIGN TEAM, SEOR AND DSA.
   - A. EQUIPMENT ANCHORAGE DETAILS THAT CLEARLY SHOW THE METHOD OF ATTACHEMENT AND BRACING TO THE STRUCTURE. THESE DETAILS SHALL BE COORDINATED WITH THE ACTUAL STRUCTURAL SYSTEM ON THIS PROJECT. ICC-EC REPORT NUMBERS SHALL BE PROVIDED IN THE DETAILS FOR ALL CONTRACTORS. IF PRE-APPROVED OSHPD SYSTEM IS USED THEN PRE-APPROVED NUMBER SHALL BE SHOWN. DETAILS SHALL BE STAMPED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA.
   - B. EQUIPMENT ANCHORAGE CALCULATIONS DESIGNING ALL OF THE COMPONENTS OF THE ANCHORAGE SYSTEM. THE CALCULATIONS SHALL CLEARLY SHOW THE MAGNITUDE AND LOCATION OF THE FORCES IMPOSED ON THE STRUCTURE. CALCULATIONS SHALL BE STAMPED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF CALFORNIA.
3. **SUSPENDED UTILITIES SUPPORT AND BRACING NOTES:**
   CONTRACTOR IS REPONSIBLE FOR THE LAYOUT OF THE SUPPORT AND BRACING SYSTEMS FOR SUSPENDED PIPING, DUCTWORK, CONDUIT AND CABLE TRAYS. SUSPENDED PIPING, DUCTWORK, CONDUIT AND CABLE TRAYS SHALL BE SUPPORTED AND BRACED IN ACCORDANCE WITH PRE-APPROVED OSHPD STANDARDS NOTED ON MEP DRAWINGS.

   COPIES OF THE OPM MANUALS SHALL BE ON THE JOB SITE PRIOR TO STARTING HANGING AND BRACING OF THE SUSPENDED PIPING, DUCTWORK, CONDUIT AND CABLE TRAYS. ONE COPY OF THE MANUAL SHALL BE MADE AVAILABLE TO THE INSPECTOR OF RECORD (IOR) AT ALL TIMES.

   HANGING LOADS AND BRACING SHALL NOT IMPOSE ANY LATERAL OR TORSIONAL FORCES ON THE STEEL BEAM BOTTOM FLANGES. HANGERS SHALL BE CONCENTRIC TO STEEL BEAMS, CONCRETE SLABS, CONCRETE BEAMS OR BOTTOM FLUTE OF CONCRETE SLABS ON METAL DECK. LATERAL BRACES SHALL BE CONNECTED TO THE TOP FLANGE OF STEEL BEAMS WHICH ARE CONNECTED TO METAL DECK OR TO CONCRETE SLABS ON METAL DECK. HANGERS AND LATERAL BRACES SHALL NOT BE CONNECTED TO BARE METAL DECK. POST-INSTALLED ANCHORS SHALL NOT BE USED IN POST-TENSIONED SLABS AND BEAMS.

   CONTRACTOR SHALL SUBMIT THE ITEMS LISTED BELOW PERTAINING TO THE SUPPORT AND BRACING OF SUSPENDED PIPING, DUCTWORK, CONDUIT AND CABLE TRAYS THAT WILL BE REVIEWED AND ACCEPTED BY THE ARCHITECT (STRUCTURAL ENGINEER):
   - A. SUPPORT AND BRACING DETAILS TO BE USED ON THE PROJECT. DETAILS SHALL CLEARLY SHOW HOW SYSTEMS ARE CONNECTED TO THE STRUCTURE AND ARE COORDINATED WITH THE ACTUAL STRUCTURAL SYSTEMS ON THE PROJECT.
   - B. FLOOR PLAN LAYOUTS SHOWING CONNECTION LOCATIONS TO STRUCTURE AND THE DESIGN FORCES IMPOSED ON THE STRUCTURE AT THESE LOCATIONS.
   - C. WHERE PRE-APPROVED OSHPD SYSTEMS DO NOT COVER A SPECIFIC CONDITION, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUPPORT DETAILS AND CALCULATIONS - TO BE SUBMITTED AS CCD FOR DSA APPROVAL.
   - D. ALL SUPPORT DETAILS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF CALIFORNIA.
4. CONTRACTOR TO VERIFY DIMENSIONS OF UNIT AND ANCHOR POINTS, HOLES, PLATES ETC. PRIOR TO INSTALLATION OF BACKING PLATES, DRILLING HOLES IN SLAB, ETC.

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PBK

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PROJECT NUMBER 20575
DATE: 11/10/20
DRAWN BY: RT
CHECKED BY: RB

REVISIONS

No.	Description	Date

100% CD SUBMITTAL

GENERAL NOTES

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ABBREVIATIONS

	#	POUNDS, NUMBER
	&	AND
	<	LESS THAN
	>	GREATER THAN
	@	AT
	°	DEGREE
	±	PLUS OR MINUS
	≤	LESS THAN OR EQUAL TO
	≥	GREATER THAN OR EQUAL TO
A		
A	AA	ADHESIVE ANCHOR
A	AB	ANCHOR BOLT(S)
A	ABV	ABOVE
A	ADDL	ADDITIONAL
A	ADDN	ADDITION
A	ADJ	ADJACENT, ADJUSTABLE
A	AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
A	ALT	ALTERNATE
A	ANCH	ANCHOR
A	APPROX	APPROXIMATE
A	AR	ALL AROUND
A	ARCH	ARCHITECTURAL
B		
B	BAL	BALANCE
B	BC	BOTTOM CHORD
B	BE	BOUNDARY ELEMENT
B	BEL	BELOW
B	BLDG	BUILDING
B	BLKG	BLOCKING
B	BLL	BOTTOM LOWER LAYER
B	BM	BEAM
B	BN	BOUNDARY NAILING
B	BO	BOTTOM OF
B	BOBP	BOTTOM OF BASE PLATE
B	BOS	BOTTOM OF STEEL
B	BOT	BOTTOM
B	BP	BASE PLATE
B	BPL	BEARING PLATE
B	BRB	BUCKLING-RESTRAINED BRACE
B	BRBF	BUCKLING-RESTRAINED BRACED FRAME
B	BRCG	BRACING
B	BRDG	BRIDGING
B	BRG	BEARING
B	BS	BOTH SIDES
B	BSMT	BASEMENT
B	BTWN	BETWEEN
B	BU	BUILT-UP
B	BUL	BOTTOM UPPER LAYER
B	BYD	BEYOND
C		
C	C	CAMBER
C	CA	COLUMN ABOVE
C	CANT	CANTILEVER
C	CB	COLUMN BELOW
C	CC	CENTER TO CENTER
C	CF	CUBIC FEET
C	CHKD	CHECKERED
C	CIP	CAST-IN-PLACE
C	CJ	CONSTRUCTION JOINT
C	CJP	COMPLETE JOINT PENETRATION
C	CL	CENETERLINE
C	CLG	CEILING
C	CLR	CLEAR
C	CLSM	CONTROL LOW STRENGTH MATERIAL
C	CMU	CONCRETE MASONRY UNIT
C	COL	COLUMN
C	CONC	CONCRETE
C	CONN	CONNECTION
C	CONST	CONSTRUCTION
C	CONT	CONTINUOUS, CONTINUITY
C	CONTR	CONTRACTOR
C	COORD	COORDINATE, COORDINATES
C	CTR	CENTER
C	CTRL JT	CONTROL JOINT
C	CVN	CHARPY V-NOTCH
C	CY	CUBIC YARD
C	CYL	CYLINDER
D		
D	DBA	DEFORMED BAR ANCHOR
D	DBL	DOUBLE
D	DBLR	DOUBLER
D	DEG	DEGREE
D	DEGF	DEGREE FAHRENHEIT
D	DEPR	DEPRESS, DEPRESSED, DEPRESSION
D	DET	DETAIL
D	DF-L	DOUGLAS FIR - LARCH
D	DIA	DIAMETER
D	DIAG	DIAGONAL
D	DIAPH	DIAPHRAGM
D	DIM	DIMENSION
D	DL	DEAD LOAD
D	DN	DOWN
D	DO	DITTO
D	DWG	DRAWING
D	DWL	DOWEL
E		
E	(E)	EXISTING
E	EA	EACH
E	EB	EXPANSION (ANCHOR) BOLT
E	EBF	ECCENTRICALLY BRACED FRAME
E	EF	EACH FACE
E	EFF	EFFECTIVE
E	EJ	EXANSION JOINT
E	EL	ELEVATION
E	ELEC	ELECTRICAL
E	ELEV	ELEVATOR

ABBREVIATIONS

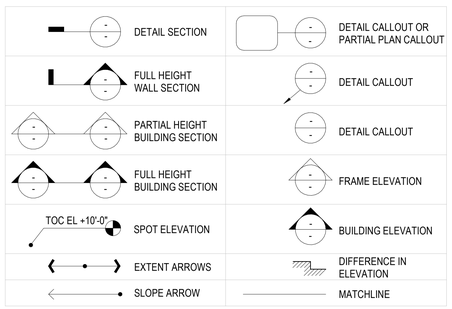
E	EMBD	EMBEDMENT, EMBED
E	EN	EDGE NAILING
E	ENGR	ENGINEER
E	EOR	ENGINEER OF RECORD
E	EOS	EDGE OF SLAB
E	EPL	EMBEDDED PLATE
E	EQ	EQUAL
E	EQUIP	EQUIPMENT
E	ES	EACH SIDE
E	ESC	ESCALATOR
E	EW	EACH WAY
E	EWTB	EACH WAY TOP AND BOTTOM
E	EXC	EXCAVATE
E	EXP	EXPANSION
E	EXT	EXTERIOR
F		
F	F	FAHRENHEIT
F	FAB	FABRICATE, FABRICATION
F	FCAW	FLUX CORED ARC WELDING
F	FDN	FOUNDATION
F	FF	FAR FACE
F	FIN	FINISH
F	FJ	FLOOR JOIST
F	FLG	FLANGE
F	FLR	FLOOR
F	FN	FIELD NAILING
F	FO	FACE OF
F	FOC	FACE OF CONCRETE
F	FOF	FACE OF FINISH
F	FOGB	FACE OF GYPSUM BOARD
F	FOS	FACE OF STUD
F	FOW	FACE OF WALL
F	FP	FIREPROOF, FIREPROOFING
F	FRMG	FRAMING
F	FS	FAR SIDE
F	FT	FOOT, FEET, FLUSH TOP
F	FTG	FOOTING
F	FUT	FUTURE
G		
G	GA	GAGE, GAUGE
G	GALV	GALVANIZED
G	GEN	GENERAL
G	GFRC	GLASS FIBER REINFORCED CONCRETE
G	GLB	GLUE-LAMINATED BEAM
G	GMAW	GAS METAL ARC WELDING
G	GOL	GAGE OF ANGLE
G	GR	GRADE
G	GRTG	GRATING
G	HT	GROUND
H		
H	HAZ	HEATED AFFECTED ZONE
H	HCA	HEADED CONCRETE ANCHOR
H	HDG	HOT DIPPED GALVANIZED
H	HDR	HEADER
H	HGR	HANGER
H	HORIZ, (H)	HORIZONTAL
H	HP	HIGH POINT
H	HR	HANDRAIL
H	HS	HIGH STRENGTH
H	HSB	HIGH STRENGTH BOLT
H	HT	HEIGHT
I		
I	I.F	INSIDE FACE
I	ICC-ES	INTERNATIONAL CODE COUNCIL EVALUATION SERVICE
I	ID	INSIDE DIAMETER
I	IE	INVERT ELEVATION
I	IMF	INTERMEDIATE MOMENT FRAME
I	IN	INCH
I	INFO	INFORMATION
I	INSP	INSPECTION, INSPECTOR
I	INSU	INSULATING
I	INT	INTERIOR
I	INTER	INTERMEDIATE
I	IRMSW	INTERMEDIATE REINFORCED MASONRY SHEAR WALL
J		
J	JST	JOIST
J	JT	JOINT
K		
K	K	KIP (KILOPOUND)(1000 POUNDS)
K	KSF	KIP PER SQUARE FOOT
K	KSI	KIP PER SQUARE INCH
L		
L	LAM	LAMINATED
L	LB	LAG BOLT, POUND
L	LG	LONG
L	LL	LIVE LOAD
L	LLBB	LONG LEG BACK TO BACK
L	LLH	LONG LEG HORIZONTAL
L	LLV	LONG LEG VERTICAL
L	LNDG	LANDING
L	LNTL	LINTEL
L	LONGIT	LONGITUDINAL
L	LP	LOW POINT
L	LSH	LONG SLOTTED HOLE
L	LTWT	LIGHTWEIGHT
L	LVL	LAMINATED VENEER LUMBER
L	LWC	LIGHTWEIGHT CONCRETE
M		
M	MAX	MAXIMUM
M	MB	MACHINE BOLT
M	MC	MOMENT CONNECTION
M	MECH	MECHANICAL
M	MEMB	MEMBER, MEMBRANE
M	MEZZ	MEZZANINE
M	MFR	MANUFACTURE(R)

ABBREVIATIONS

M	MIN	MINIMUM
M	MISC	MISCELLANEOUS
M	MOV	MOVABLE
M	MR	MILD REINFORCED, MILD REINFORCING
M	MT	MAGNETIC PARTICLE TESTING
M	MTL	METAL
M	MWFRS	MAIN WIND-FORCE RESISTING SYSTEM
N		
N	(N)	NEW
N	NDT	NON-DESTRUCTIVE TESTING
N	NF	NEAR FACE
N	NIC	NOT IN CONTRACT
N	NIP	NOT IN PERMIT
N	NO	NUMBER, NORTH
N	NOM	NOMINAL
N	NS	NEAR SIDE
N	NTS	NOT TO SCALE
N	NWC	NORMAL WEIGHT CONCRETE
O		
O	O.F	OUTSIDE FACE
O	O/	OVER
O	OC	ON CENTER
O	OCBF	ORDINARY CONCENTRICALLY BRACED FRAME
O	OD	OUTSIDE DIAMETER
O	OH	OPPOSITE HAND
O	OMF	ORDINARY MOMENT FRAME
O	OPNG	OPENING
O	OPP HD	OPPOSITE HAND
O	ORCSW	ORDINARY REINFORCED CONCRETE SHEAR WALL
O	ORMSW	ORDINARY REINFORCED MASONRY SHEAR WALL
O	OSB	ORIENTED STRAND BOARD
O	OVS	OVERSIZED
O	OZ	OUNCE
P		
P	P/C	PRECAST
P	PAF	POWDER ACTUATED FASTENER
P	PAR	PARALLEL
P	PC	PIECE, PILECAP
P	PCF	POUNDS PER CUBIC FOOT
P	PERP	PERPENDICULAR
P	PJ	POUR JOINT
P	PJP	PARTIAL JOINT PENETRATION
P	PL	PLATE
P	PLATF	PLATFORM
P	PLCS	PLACES
P	PLF	POUNDS PER LINEAR FOOT
P	PLMB	PLUMBING
P	PLWD	PLYWOOD
P	POT	POINT OF TANGENCY
P	PQR	PROCEDURE QUALIFICATION RECORD
P	PREFAB	PREFABRICATED
P	PRKG	PARKING
P	PROJ	PROJECTION
P	PS	PRESTRESS(ED)
P	PSF	POUNDS PER SQUARE FOOT
P	PSI	POUNDS PER SQUARE INCH
P	PSL	PARALLEL STRAND LUMBER
P	PT	POST-TENSION(ED), LIQUID PENETRANT TESTING
P	PTDF	PRESSURE TREATED DOUGLAS FIR
P	PWJ	PLYWOOD WEB JOIST
R		
R	PAF	POWER ACTUATED FASTENER
R	R	RADIUS, RISER
R	RAD	RADIANS
R	RBS	REDUCED BEAM SECTION
R	REF	REFERENCE
R	REINF	REINFORCING
R	REMV	REMOVABLE, REMOVE
R	REQD	REQUIRED
R	RET	RETURN
R	RF	ROOF
R	RJ	ROOF JOIST
R	ROTN	ROTATION
R	RT	RADIOGRAPHIC TESTING
R	RTNG	RETAINING
S		
S	SA	SCREW ANCHOR
S	SAD	SEE ARCHITECTURAL DRAWING(S)
S	SAW	SUBMERDGED ARC WELDING
S	SCBF	SPECIAL CONCENTRICALLY BRACED FRAME
S	SCHED	SCHEDULE
S	SCL	STRUCTURAL COMPOSITE LUMBER
S	SECT	SECTION
S	SEOR	STRUCTURAL ENGINEER OF RECORD
S	SEP	SEPARATION
S	SF	SQUARE FEET
S	SHT	SHEET
S	SHTHG	SHEATHING
S	SIM	SIMILAR
S	SL	SLOPE
S	SLBB	SHORT LEG BACK TO BACK
S	SLRS	SEISMIC LOAD RESISTING SYSTEM
S	SLV	SLEEVE
S	SMAW	SHIELDED METAL ARC WELDING
S	SMF	SPECIAL MOMENT FRAME
S	SMS	SHEET METAL SCREW
S	SO	SOUTH
S	SOF	SOFFIT
S	SOG	SLAB-ON-GRADE
S	SOMD	SLAB ON METAL DECK

ABBREVIATIONS

S	SPEC	SPECIFICATIONS, SPECIAL
S	SPSW	SPECIAL PLATE SHEAR WALL
S	SQ	SQUARE
S	SRCSW	SPECIAL REINFORCED CONCRETE SHEAR WALL
S	SRMSW	SPECIAL REINFORCED MASONRY SHEAR WALL
S	SS	STAINLESS STEEL
S	SSH	SHORT SLOTTED HOLE
S	STA	STATION
S	STAG	STAGGER
S	STD	STANDARD
S	STIF	STIFFENER
S	STIR	STIRRUP
S	STL	STEEL
S	STMF	SPECIAL TRUSS MOMENT FRAME
S	STRUCT	STRUCTURAL
S	SW	STUD WELDING
S	SWBC	SHEAR WALL BOUNDARY COLUMN
S	SYMM	SYMMETRY
T		
T	T	TREAD, TOP
T	T&B	TOP AND BOTTOM
T	T.O	TOP OF
T	T/	TOP OF
T	TAR	TYPICAL ALL AROUND
T	TC	TOP CHORD
T	TEMP	TEMPORARY, TEMPERATURE
T	THD	THREAD
T	THK	THICK, THICKNESS
T	THRU	THROUGH
T	TLL	TOP LOWER LAYER
T	TOBS	TOP OF BUILT-UP SLAB
T	TOC	TOP OF CONCRETE
T	TOD	TOP OF STEEL DECK
T	TOF	TOP OF FOOTING
T	TOG	TOP OF GRATING
T	TOPC	TOP OF PILE CAP
T	TOS	TOP OF STEEL
T	TOW	TOP OF WALL
T	TUL	TOP UPPER LAYER
T	TYP	TYPICAL
U		
U	UNO	UNLESS NOTED OTHERWISE
U	UT	ULTRASONIC TESTING
V		
V	VERT, (V)	VERTICAL
V	VIF	VERIFY IN FIELD
W		
W	W/	WITH
W	W/O	WITHOUT
W	WD	WOOD
W	WL	WORK LINE
W	WP	WORK POINT
W	WPS	WELD PROCEDURE SPECIFICATIONS
W	WSP	WOOD STRUCTURAL PANEL
W	WT	WEIGHT
W	WWR	WELDED WIRE REINFORCEMENT



SHEET NUMBER	SHEET NAME
S0.01	GENERAL NOTES
S0.02	GENERAL NOTES
S0.03	GENERAL NOTES
S0.04	GENERAL NOTES
S0.05	GENERAL NOTES
S0.10	TYPICAL CONCRETE DETAILS
S0.11	TYPICAL CONCRETE DETAILS
S0.12	TYPICAL WOOD DETAILS
S0.13	TYPICAL WOOD DETAILS
S0.14	TYPICAL WOOD DETAILS
S2.01	FOUNDATION PLAN
S2.02	ROOF FRAMING PLAN
S3.01	ELEVATIONS
GRAND TOTAL: 13	

DSA FILE NO. 37-C2 A# 04-119030

PBK

ARCHITECTURE

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EXP. 12/31/20
STRUCTURAL
STATE OF CALIFORNIA

ARCHITECT

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
20575

DATE:	11/10/20
DRAWN BY:	RT
CHECKED BY:	RB

REVISIONS

No.	Description	Date

100% CD SUBMITTAL

GENERAL NOTES

S0.05

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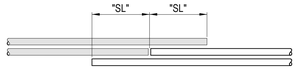
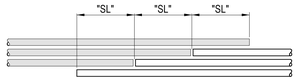


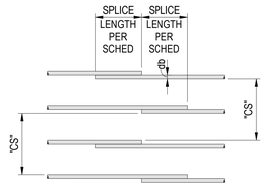
2 BAR BUNDLE SPLICE DETAIL



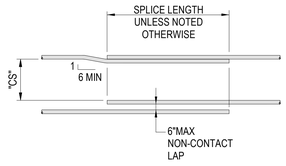
3 BAR BUNDLE SPLICE DETAIL

NOTES:
1. BARS SHALL BE BUNDLED WITH NO MORE THAN 2 BARS IN SAME PLANE
2. "SL" INDICATES SPLICE LENGTH AT BUNDLED BARS. SEE REINFORCING SPLICE NOTE 5.

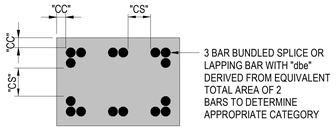
TYPICAL BUNDLED LAP SPLICES



TYPICAL STAGGERED LAP SPLICING DETAIL



TYPICAL LAP SPLICE DETAIL



TYPICAL BAR CONCRETE COVER & CLEAR SPACING DIAGRAM

REINFORCING SPLICE NOTES:

1. SCHEDULED SPLICE LENGTHS ARE IN ACCORDANCE WITH ACI 318-14 AND APPLY TO REBAR Fy=60 KSI. LENGTHS ARE FROM CHAPTER 25 (NON-SEISMIC ELEMENTS) AND CHAPTER 18 (SEISMIC ELEMENTS).

2.

CATEGORY	DESCRIPTION
1	2db ≤ CC AND 4db ≤ CS
2	[db ≤ CC < 2db & 2db ≤ CS] OR [db ≤ CC & 2db ≤ CS < 4db]
3	1/2db ≤ CC < db OR db ≤ CS < 2db
CC INDICATES CONCRETE COVER, CS INDICATES BAR CLEAR SPACING.	

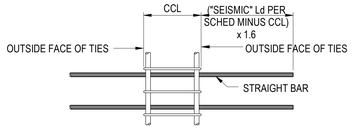
3. IF CC < 1/2db OR CS < db CONTACT SEOR FOR REQUIRED SPLICE LENGTH.
4. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE POURED BELOW BARS.
5. FOR BUNDLED BARS, AN EFFECTIVE BAR DIAMETER (dbe) SHALL BE USED FOR DETERMINING COVER AND SPACING LIMITATIONS:
   a. FOR 2 BAR BUNDLE dbe = 1.414db
   b. FOR 3 BAR BUNDLE dbe = 1.732db
   c. FOR 4 BAR BUNDLE dbe = 2.000db
6. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED, LAP SPLICE LENGTH SHALL BE THE LARGER OF Ld (STRAIGHT BAR DEVELOPMENT) FOR LARGER BAR AND LAP SPLICE LENGTH OF SMALLER BAR.
7. SPLICES LENGTHS MAY BE REDUCED 23% IF SPECIFICALLY NOTED ON STRUCT DRAWINGS AS CLASS "A" SPLICE.
8. APPLY THE FOLLOWING MULTIPLIERS TO SCHEDULED SPLICE LENGTHS FOR EACH INSTANCE BELOW WHICH APPLIES:
   a. FOR REBAR YIELD STRENGTHS OTHER THAN 60 KSI, MULTIPLY SPLICE LENGTHS IN SCHEDULE BY RATIO OF ACTUAL YIELD STRENGTH / 60,000.
   b. SPLICE LENGTH OF LONGITUDINAL BARS IN THE "SPECIAL SPLICE ZONE" AS INDICATED ON SHEAR WALL ELEVATIONS SHALL BE MULTIPLIED BY 1.25 THAT INDICATED IN THE SCHEDULE.
   c. FOR 3-BAR BUNDLES, MULTIPLY SPLICE LENGTHS IN SCHEDULE BY 1.20. FOR 4-BAR BUNDLES, MULTIPY SPLICE LENGTHS IN SCHEDULE BY 1.33. ENTIRE BUNDLE SHALL NOT BE LAP SPLICED.
   d. FOR LIGHTWEIGHT CONCRETE, MULTIPLY SPLICE LENGTHS IN SCHEDULE BY 1.33.
   e. FOR EPOXY COATED BARS WITH CC < 3db OR CS < 6db, MULTIPLY SPLICE LENGTHS IN SCHEDULE BY 1.50. FOR OTHER EPOXY COATED BARS, MULTIPLY SPLICE LENGTHS IN SCHEDULE BY 1.20.
   f. FOR CONCRETE STRENGTH IN BETWEEN STRENGTHS INDICATED IN THE SCHEDULE. USE DEVELOPMENT LENGTH FOR THE LOWER CONCRETE STRENGTH.

SPLICE LENGTH SCHEDULE IN INCHES
(APPLICABLE TO REBAR W/ 60 KSI YIELD STRENGTH)

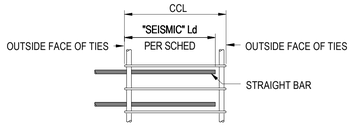
NORMAL WEIGHT CONCRETE (f'c PSI)		3000 PSI						4000 PSI						5000 PSI					
CATEGORY		1		2		3		1		2		3		1		2		3	
BAR SIZE	BAR DIAMETER (db)	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS
#4	0.500	23	18	38	29	56	43	20	15	33	25	49	37	18	14	29	23	44	34
#5	0.625	28	22	47	36	70	54	25	19	41	31	61	47	22	17	36	28	54	42
#6	0.750	34	26	56	43	84	65	29	23	49	37	73	56	26	20	44	34	65	50
#7	0.875	49	38	81	63	122	94	43	33	71	54	106	81	38	29	63	49	95	73
#8	1.000	56	43	93	72	139	107	49	37	81	62	121	93	44	34	72	56	108	83
#9	1.128	63	49	105	81	157	121	55	42	91	70	136	105	49	38	81	63	122	94
#10	1.270	71	55	118	91	177	136	62	47	102	79	153	118	55	43	92	71	137	106
#11	1.410	79	61	131	101	196	151	68	53	114	87	170	131	61	47	102	78	152	117

SPLICE LENGTH SCHEDULE IN INCHES
(APPLICABLE TO REBAR W/ 60 KSI YIELD STRENGTH)

NORMAL WEIGHT CONCRETE (f'c PSI)		6000 PSI						7000 PSI						8000 PSI					
CATEGORY		1		2		3		1		2		3		1		2		3	
BAR SIZE	BAR DIAMETER (db)	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS
#4	0.500	16	13	27	21	40	31	15	12	25	19	37	28	14	12	23	18	35	27
#5	0.625	20	16	33	26	50	38	19	14	31	24	46	35	18	14	29	22	42	33
#6	0.750	24	19	40	31	59	46	22	17	37	28	55	42	21	16	35	27	52	40
#7	0.875	35	27	58	45	86	67	32	25	54	41	80	62	30	23	50	39	75	58
#8	1.000	40	31	66	51	99	76	37	28	61	47	91	70	35	27	57	44	86	66
#9	1.128	45	35	74	57	111	86	42	32	69	53	103	79	39	30	64	50	96	74
#10	1.270	50	39	84	64	125	96	47	36	77	60	116	89	44	34	72	56	108	84
#11	1.410	56	43	93	71	139	107	52	40	86	66	129	99	48	37	80	62	120	93

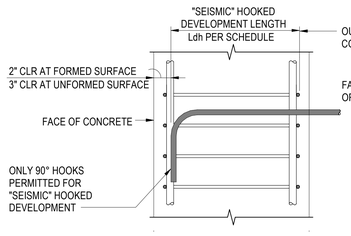


CONDITION WHERE "SEISMIC" Ld IS GREATER THAN CONFINED CORE LENGTH CCL

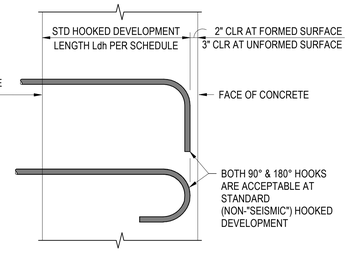


CONDITION WHERE "SEISMIC" Ld FITS WITHIN CONFINED CORE

NOTE:
"CCL" INDICATES CONFINED CORE LENGTH OF SPECIAL MOMENT FRAME COLUMNS.



"SEISMIC" HOOKED DEVELOPMENT



STANDARD (NON-"SEISMIC") HOOKED DEVELOPMENT

NOTES:

A. ALL HOOKED BARS SHALL EXTEND TO THE FAR FACE OF CONCRETE, AS MUCH AS PRACTICAL, WITH 2" MINIMUM END COVER AND WITH DEVELOPMENT NOT LESS THAN LENGTHS INDICATED IN SCHEDULE INCLUDING APPROPRIATE MULTIPLIERS.

B. PROVIDE 2 1/2" MINIMUM CONCRETE SIDE COVER.

C. "SEISMIC" HOOKED DEVELOPMENT LENGTH Ldh IN SCHEDULE INCLUDING APPROPRIATE MULTIPLIERS APPLY TO BARS W/ STD 90° HOOKS LOCATED WITHIN A CONFINED CORE OF SPECIAL MOMENT FRAME COLUMNS. 180° HOOKS ARE NOT PERMITTED FOR "SEISMIC" HOOKED DEVELOPMENT.

STRAIGHT "SEISMIC" DEVELOPMENT Ld AT CONFINED CORES OF SPECIAL MOMENT FRAME COLUMNS

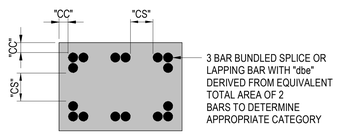
HOOKED DEVELOPMENT Ldh

STRAIGHT DEVELOPMENT LENGTH SCHEDULE (Ld) IN INCHES
(APPLICABLE TO REBAR W/ 60 KSI YIELD STRENGTH)

NORMAL WEIGHT CONCRETE (f'c PSI)		3000 PSI						4000 PSI						5000 PSI					
CATEGORY		1		2		3		1		2		3		1		2		3	
BAR SIZE	BAR DIAMETER (db)	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS
#4	0.500	18	14	29	22	43	33	15	12	25	19	37	29	24	19	37	29	56	43
#5	0.625	22	17	36	28	54	42	19	15	31	24	47	36	30	23	47	36	70	54
#6	0.750	26	20	43	33	65	50	23	18	37	29	56	43	36	28	56	43	84	65
#7	0.875	38	29	63	48	94	72	33	25	54	42	81	63	42	32	66	49	98	76
#8	1.000	43	33	72	55	107	83	37	29	62	48	93	72	48	37	75	57	112	87
#9	1.128	49	38	81	62	121	93	42	33	70	54	105	81	54	42	84	65	126	98
#10	1.270	55	42	91	70	136	105	47	37	79	61	118	91	61	47	95	73	142	110
#11	1.410	61	47	101	78	151	116	53	41	87	67	131	101	67	52	104	81	157	122
#14	1.693	73	56	121	93	181	140	63	49	105	81	157	121	57	44	94	72	141	108
#18	2.257	97	75	161	124	242	186	84	65	140	108	209	161	75	58	125	96	187	144

STRAIGHT DEVELOPMENT LENGTH SCHEDULE (Ld) IN INCHES
(APPLICABLE TO REBAR W/ 60 KSI YIELD STRENGTH)

NORMAL WEIGHT CONCRETE (f'c PSI)		6000 PSI						7000 PSI						8000 PSI					
CATEGORY		1		2		3		1		2		3		1		2		3	
BAR SIZE	BAR DIAMETER (db)	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS
#4	0.500	13	12	21	16	31	24	12	12	19	15	28	22	20	15	12	12	18	14
#5	0.625	16	12	26	20	38	30	14	12	24	18	36	27	23	18	14	12	22	17
#6	0.750	19	14	31	24	46	35	17	13	28	22	42	33	27	21	16	13	27	21
#7	0.875	27	21	45	34	67	51	25	19	41	32	62	48	32	25	23	18	39	30
#8	1.000	31	24	51	39	76	59	28	22	47	36	70	54	36	28	27	21	44	34
#9	1.128	35	27	57	44	86	66	32	25	53	41	79	61	41	32	30	23	50	38
#10	1.270	39	30	64	50	96	74	36	28	60	46	89	69	46	36	34	26	56	43
#11	1.410	43	33	71	55	107	82	40	31	66	51	99	76	51	39	37	29	62	48
#14	1.693	52	40	86	66	128	99	48	37	79	61	119	92	60	46	45	35	74	57
#18	2.257	69	53	114	88	171	132	64	49	106	81	158	122	80	62	60	46	99	76



TYPICAL BAR CONCRETE COVER & CLEAR SPACING DIAGRAM

REINFORCING DEVELOPMENT NOTES:

1. SCHEDULED DEVELOPMENT LENGTHS ARE IN ACCORDANCE WITH ACI 318-14 AND APPLY TO REBAR Fy=60 KSI. LENGTHS ARE FROM CHAPTER 25 (NON-SEISMIC ELEMENTS) AND CHAPTER 18 (SEISMIC ELEMENTS).

2.

CATEGORY	DESCRIPTION
1	2db ≤ CC AND 4db ≤ CS
2	[db ≤ CC < 2db & 2db ≤ CS] OR [db ≤ CC & 2db ≤ CS < 4db]
3	1/2db ≤ CC < db OR db ≤ CS < 2db
SEISMIC	SEE NOTES 6 & 7
CC INDICATES CONCRETE COVER, CS INDICATES BAR CLEAR SPACING.	

3. IF CC < 1/2db OR CS < db CONTACT SEOR FOR REQUIRED DEVELOPMENT LENGTH.
4. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE POURED BELOW BARS.
5. FOR BUNDLED BARS, AN EFFECTIVE BAR DIAMETER (dbe) SHALL BE USED FOR DETERMINING COVER AND SPACING LIMITATIONS:
   a. FOR 2 BAR BUNDLE dbe = 1.414db
   b. FOR 3 BAR BUNDLE dbe = 1.732db
   c. FOR 4 BAR BUNDLE dbe = 2.000db
6. "SEISMIC" STRAIGHT DEVELOPMENT LENGTH Ld IN SCHEDULE APPLIES TO STRAIGHT BARS TERMINATING IN OR PASSING THROUGH CONFINED CORES OF SPECIAL MOMENT FRAME COLUMNS.
7. "SEISMIC" HOOKED DEVELOPMENT LENGTH Ldh IN SCHEDULE APPLIES TO BARS W/ STD 90° HOOKS LOCATED WITHIN A CONFINED CORE OF SPECIAL MOMENT FRAME COLUMNS.
8. APPLY THE FOLLOWING MULTIPLIERS TO SCHEDULED DEVELOPMENT LENGTHS FOR EACH INSTANCE BELOW WHICH APPLIES:
   a. FOR REBAR YIELD STRENGTHS OTHER THAN 60 KSI, MULTIPLY DEVELOPMENT LENGTHS Ld & Ldh IN SCHEDULE BY RATIO OF ACTUAL YIELD STRENGTH / 60,000.
   b. DEVELOP LENGTH OF LONGITUDINAL BARS IN THE "SPECIAL SPLICE ZONE" AS INDICATED ON SHEAR WALL ELEVATIONS SHALL BE MULTIPLIED BY 1.25 THAT INDICATED IN THE SCHEDULE.
   c. FOR 3-BAR BUNDLES, MULTIPLY DEVELOPMENT LENGTHS Ld & Ldh IN SCHEDULE BY 1.20. FOR 4-BAR BUNDLES, MULTIPY DEVELOPMENT LENGTHS Ld & Ldh IN SCHEDULE BY 1.33.
   d. FOR LIGHTWEIGHT CONCRETE, MULTIPLY STRAIGHT DEVELOPMENT LENGTH Ld IN SCHEDULE BY 1.33. FOR LIGHTWEIGHT CONCRETE, MULTIPLY HOOKED DEVELOPMENT LENGTH Ldh IN SCHEDULE BY 1.33 (1.25 FOR "SEISMIC" CONDITIONS AS DEFINED IN NOTE 7).
   e. FOR EPOXY COATED BARS WITH CC < 3db OR CS < 6db, MULTIPLY STRAIGHT DEVELOPMENT LENGTH Ld IN SCHEDULE BY 1.50. FOR STRAIGHT DEVELOPMENT FOR OTHER EPOXY COATED BARS, MULTIPLY STRAIGHT DEVELOPMENT LENGTH Ld IN SCHEDULE BY 1.20. FOR EPOXY COATED BARS, MULTIPLY HOOKED DEVELOPMENT LENGTH Ldh IN SCHEDULE BY 1.20.
   f. DEVELOP ALL DIAGONAL COUPLING BEAM REBARS BY MULTIPLYING DEVELOPMENT LENGTHS Ld AND Ldh IN SCHEDULE BY 1.25.
   g. FOR CONCRETE STRENGTH IN BETWEEN STRENGTHS INDICATED IN THE SCHEDULE. USE DEVELOPMENT LENGTH FOR THE LOWER CONCRETE STRENGTH.

HOOKED DEVELOPMENT LENGTH SCHEDULE (Ldh) IN INCHES
(APPLICABLE TO REBAR W/ 60 KSI YIELD STRENGTH)

NORMAL WEIGHT CONCRETE (f'c PSI)		3000 PSI		4000 PSI		5000 PSI		6000 PSI		7000 PSI		8000 PSI	
BAR SIZE	BAR DIAMETER (db)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)	STANDARD	SEISMIC (SEE NOTE 7)
#4	0.500	8	9	7	8	6	6	6	6	6	6	6	6
#5	0.625	10	11	9	10	8	9	7	8	7	7	6	7
#6	0.750	12	13	10	11	9	10	9	9	8	9	8	8
#7	0.875	14	15	12	13	11	12	10	11	9	10	9	10
#8	1.000	16	17	14	15	12	14	11	12	11	12	10	11
#9	1.128	18	20	15	17	14	15	13	14	12	13	11	12
#10	1.270	20	22	17	19	16	17	14	16	13	15	12	14
#11	1.410	22	24	19	21	17	19	16	17	15	16	14	15
#14	1.693	38	-	33	-	29	-	27	-	25	-	23	-
#18	2.257	50	-	43	-	39	-	35	-	33	-	31	-

DSA FILE NO. 37-C2 A# 04-119030

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CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT
PROJECT NUMBER 20575
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TYPICAL CONCRETE DETAILS

S0.10

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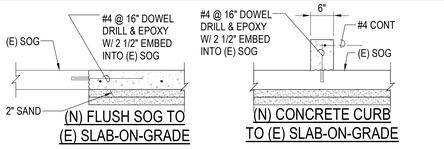
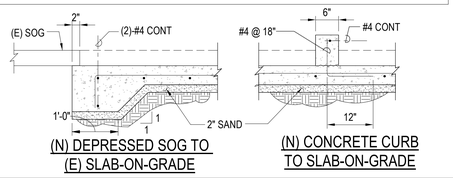
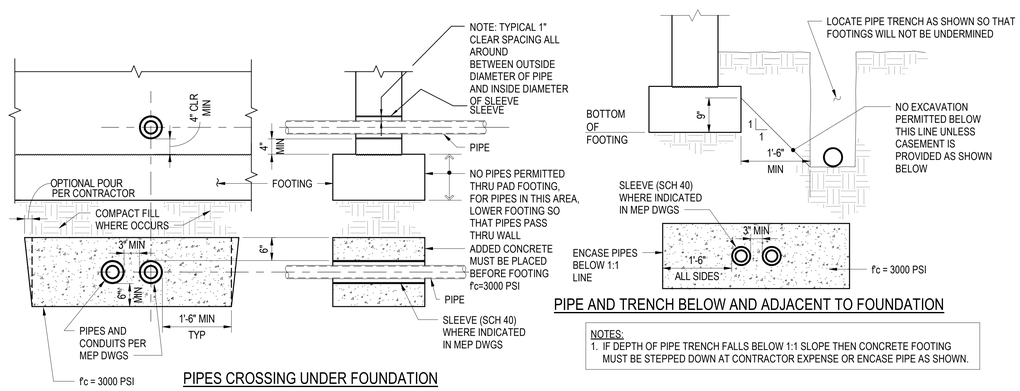


NOTES:
1. ALL (N) SLAB-ON-GRADE SHALL BE 4" (MIN) W/ #4 @ 16" OC EA WAY UNO.
2. SEE ARCH'L DWGS FOR LOCATION, EXTENT OF (N) SLAB-ON-GRADE AND HEIGHT OF CONCRETE CURBS.
3. AT INTERIOR SLABS, PROVIDE 10 MIL THICK POLYETHYLENE VAPOR BARRIER OVERLAIN BY 2" SAND.
4. NO PULL TESTING IS REQUIRED FOR SOG EPOXY DOWELS, AS PER CBC 2016, SECTION 1910A.5.3 EXCEPTION #4.

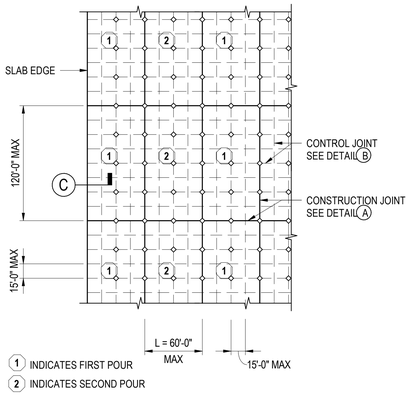


4 NTS TYPICAL MISCELLANEOUS SLAB-ON-GRADE INFILL DETAIL

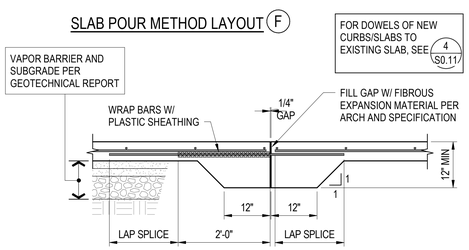


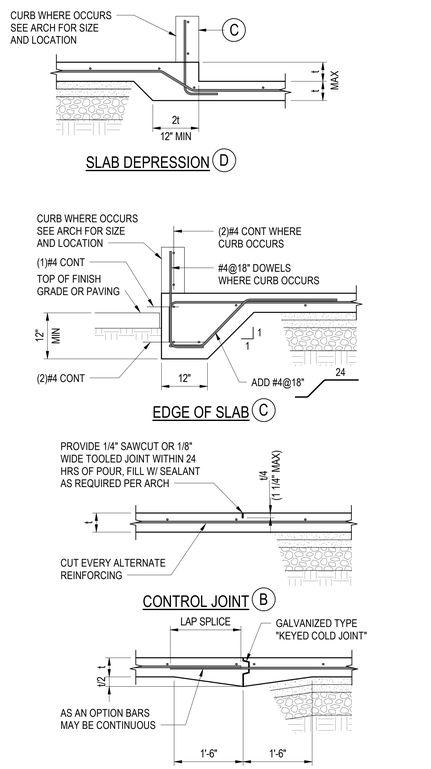
NOTES:
1. IF DEPTH OF PIPE TRENCH FALLS BELOW 1:1 SLOPE THEN CONCRETE FOOTING MUST BE STEPPED DOWN AT CONTRACTOR EXPENSE OR ENCASE PIPE AS SHOWN.

3 NTS TYPICAL PIPES THRU OR TRENCHES ADJACENT TO FOUNDATION



NOTES:
1. LOCATE CONSTRUCTION JOINTS ON CL OF COLUMNS AND UNDER PARTITIONS AS PRACTICAL AS POSSIBLE.
2. PROVIDE CONTROL JOINTS AT CL OF COLUMNS IF NO CONSTRUCTION JOINTS OCCUR.
3. CONTRACTOR TO SUBMIT A JOINTING PLAN TO ARCHITECT FOR REVIEW.

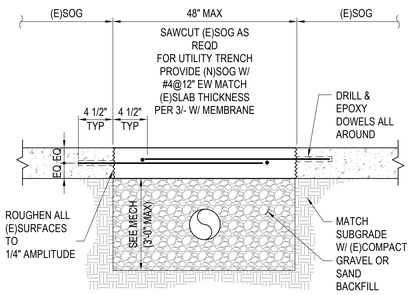




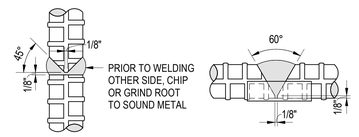
CONC-SOGD-0001(REV-A)

9 NTS TYPICAL CONCRETE SLAB ON GRADE DETAILS

NOTE:
NO PULL TESTING IS REQUIRED FOR SOG EPOXY DOWELS, AS PER CBC 2019 SECTION 1910A.5.3 EXCEPTION #4.



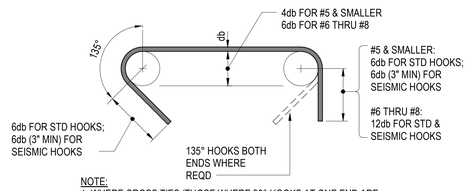
6 NTS TYPICAL INFILL AT EXISTINGSLAB-ON-GRADE DETAIL



NOTES:
1. AS AN ALTERNATE TO LAP SPLICE, BUTT WELD MAY BE USED AS INDICATED ABOVE, PROVIDED THEY ARE STAGGERED @24" MINIMUM.
2. AN APPROVED TESTING LABORATORY SHALL PROVIDE A PREQUALIFICATION TENSION TEST FOR SAMPLES ON EVERY SIZE OF BAR BEING WELDED.
3. MATERIALS, CONDITIONS AND WELDING PROCEDURES UTILIZED SHALL COMPLY WITH THE CURRENT APPLICABLE BUILDING CODE AND THE REQUIREMENTS OF THE GOVERNING INSPECTION AGENCY.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCURRED IN OBTAINING APPROVAL.

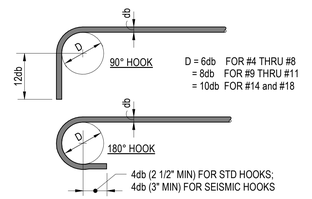
CONC-GENL-0004(REV-A)

2 NTS TYPICAL REINF BUTT WELDS DETAIL (ALTERNATE TO SPLICES)



NOTE:
1. WHERE CROSS TIES (THOSE WHERE 90° HOOKS AT ONE END ARE PERMITTED) ENGAGE SAME LONGITUDINAL BAR, CONSECUTIVE CROSS TIES SHALL HAVE THEIR 90° HOOKS ALTERNATING END FOR END ALONG LONGITUDINAL BAR.

HOOKS FOR TIES, STIRRUPS AND HOOPS



HOOKS FOR BARS OTHER THAN TIES, SITRRUPS AND HOOPS

1 NTS TYPICAL REINFORCING STEEL STANDARD AND SEISMIC HOOK DETAILS

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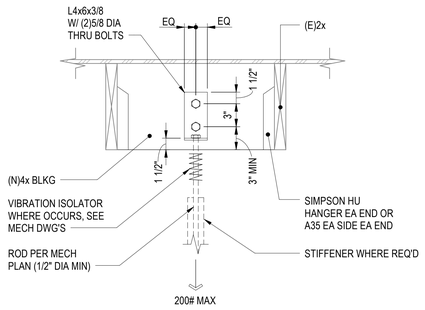
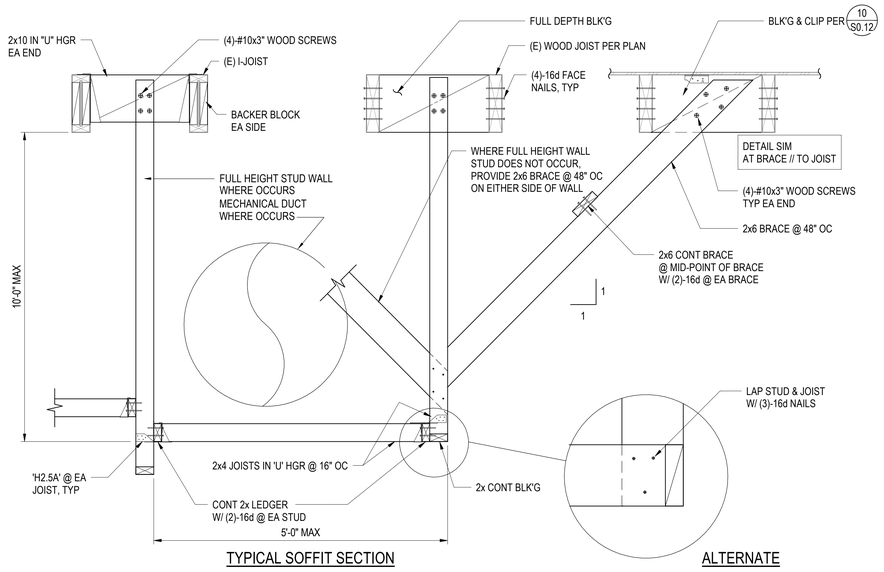
TYPICAL CONCRETE DETAILS

S0.11

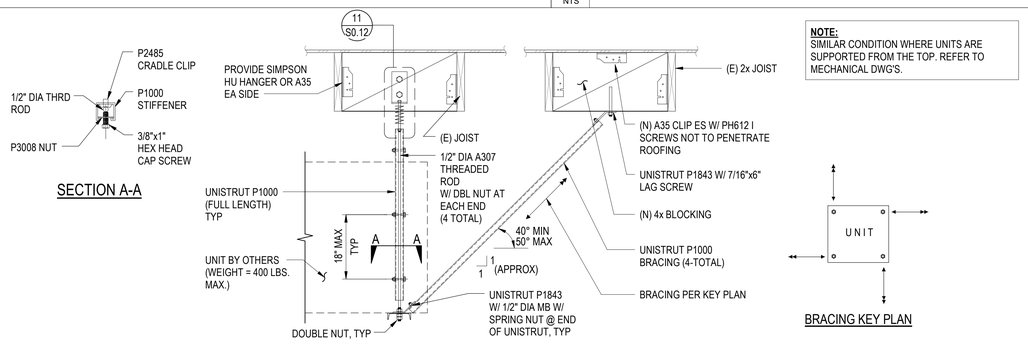


11 NTS TYPICAL HANGER ROD DETAIL



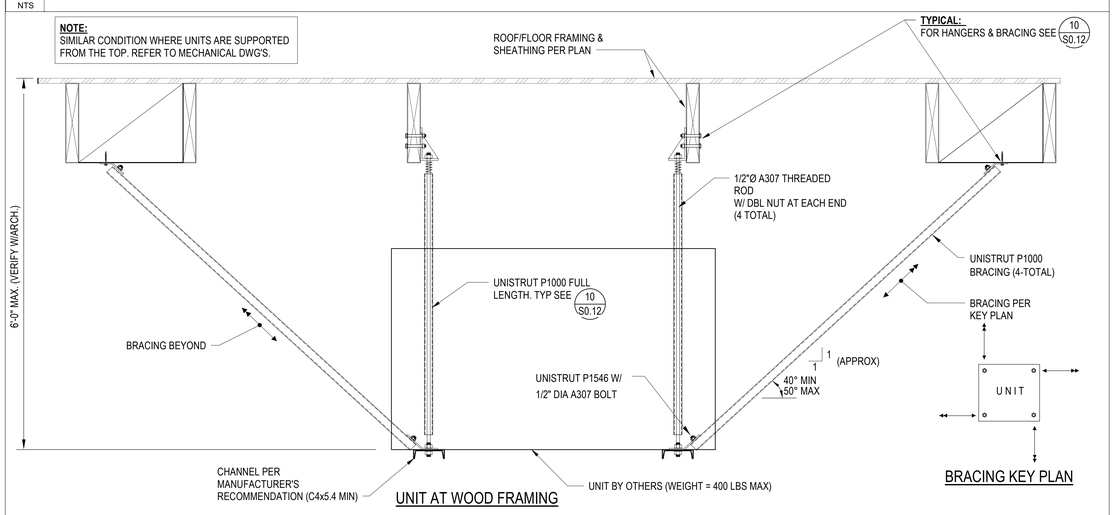
TYPICAL SOFFIT SECTION ALTERNATE

3 1" = 1'-0" TYPICAL WOOD HANGING SOFFIT FRAMING DETAIL



NOTE:
SIMILAR CONDITION WHERE UNITS ARE SUPPORTED FROM THE TOP. REFER TO MECHANICAL DWG'S.

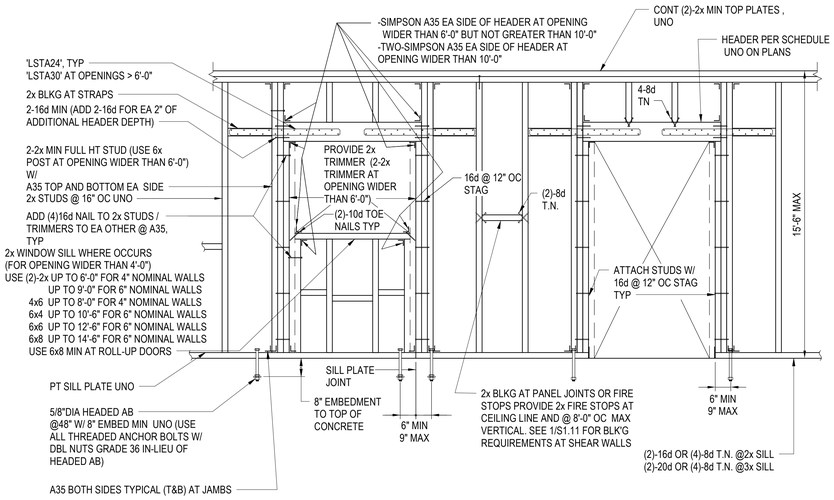
10 NTS TYPICAL SUSPENDED MECHANICAL UNIT SUPPORT DETAIL (BTWN JOISTS)



9 NTS TYPICAL SUSPENDED MECHANICAL UNIT SUPPORT DETAIL (AT JOISTS)

HEADER SCHEDULE		
MAXIMUM OPENING WIDTH	MIN NOMINAL HEADER "D"	
	NON-BEARING	BEARING
4'-0"	4"	6"
6'-0"	6"	8"
8'-0"	8"	10"
10'-0"	10"	12"
12'-0"	12"	14"

NOTES:
1. FOR BALANCE OF NAILING, SEE NAILING SCHEDULE ON **S0.03** / CBC TABLE 2304.10.1 AND DETAILS.
2. FASTENERS AND ANCHOR BOLTS IN PRESSURE TREATED AND FIRE-RETARDANT WOOD SHALL BE OF HOT DIPPED ZINC-COATED GAVANIZED STEEL OR STAINLESS STEEL (CBC 2304.10.5)
3. ALL WALLS SUPPORTING ANY TYPE OF LOAD, i.e. JOISTS OR LOADS ABOVE, SHALL BE CONSIDERED AS LOAD BEARING.



1 NTS TYPICAL STUD WALL CONSTRUCTION

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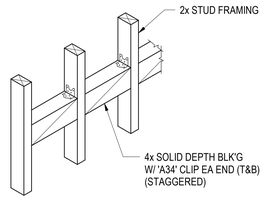
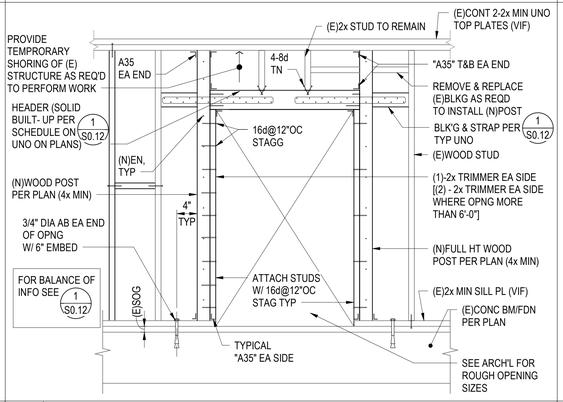
TYPICAL WOOD DETAILS

S0.12

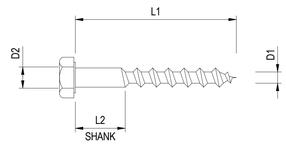


EQUIPMENT WEIGHT UNDER 100 LBS
(AND FIXTURES)

4 NTS BACKING FOR WALL SUPPORTED ITEMS



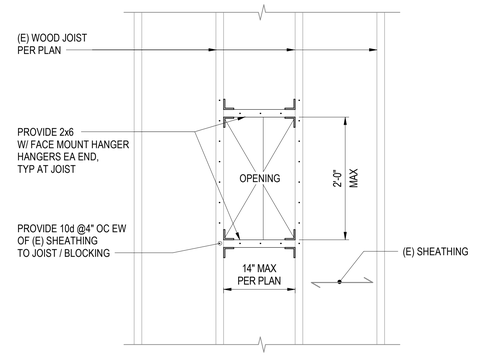
11 NTS TYPICAL NEW STUD WALL OPENING CONSTRUCTION WITHIN EXISTING WALL



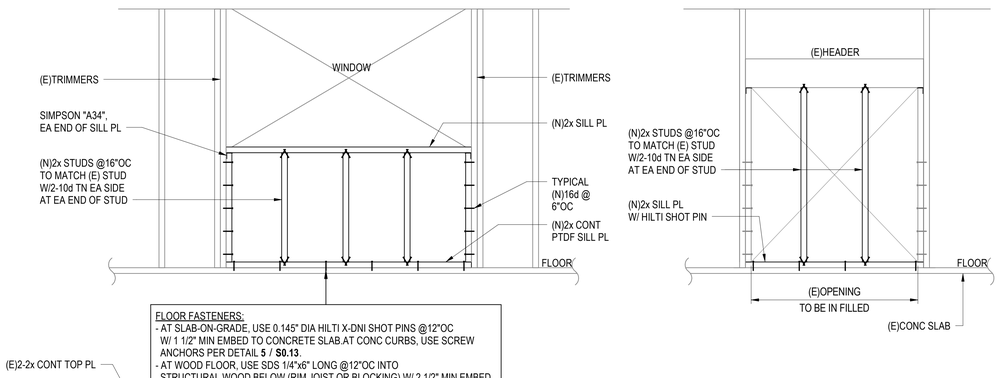
INSTALLATION SEQUENCE

1. DRILL LEAD HOLE 60 - 70% OF D2 FOR DISTANCE OF L1.
2. DRILL CLEARANCE HOLE OF DIAMETER D2 FOR DISTANCE OF L2.
3. THREADED PORTION SHALL BE INSATLLED IN LEAD HOLE BY TURNING WITH WRENCH. DRIVING WITH HAMMER SHALL NOT BE PERMITTED.
4. RETIGHTEN SCREWS BEFORE FINAL CLOSING IN.

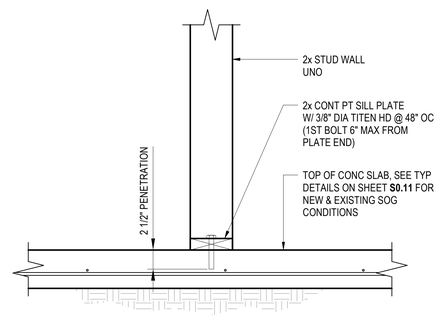
7 NTS LAG SCREW INSTALLATION PROCEDURE



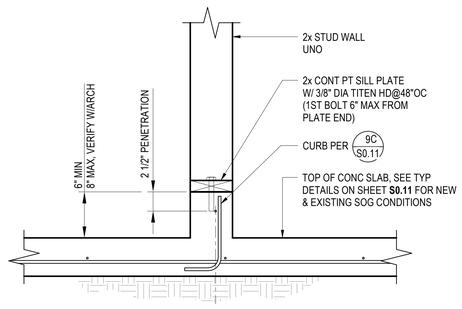
3 NTS TYPICAL OPENING IN (E) WOOD FLOOR / ROOF FRAMING



9 NTS TYPICAL INFILL OF (E) STUD WALL OPENING

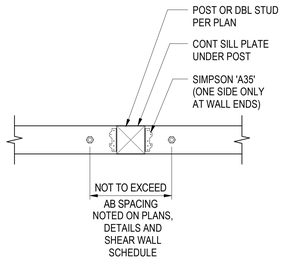


TYPICAL CONDITION



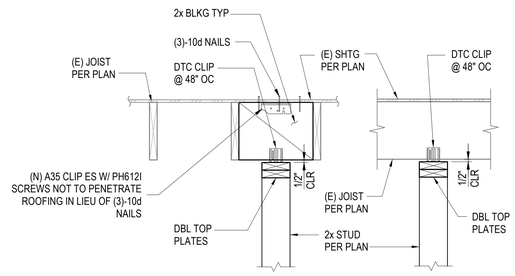
CONDITION WHERE CURB IS REQUIRED

5 NTS TYPICAL NON-BEARING WALL TO CONCRETE SLAB CONNECTION



PLAN AT POST OR DBL. STUD W/ A35'S

2 NTS TYPICAL POST AT SILL PLATE



PARALLEL TO JOISTS PERPENDICULAR TO JOISTS

1 NTS TYPICAL NON-BEARING WALL TO FRAMING AT TOP OF WALL

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TYPICAL WOOD DETAILS

S0.13

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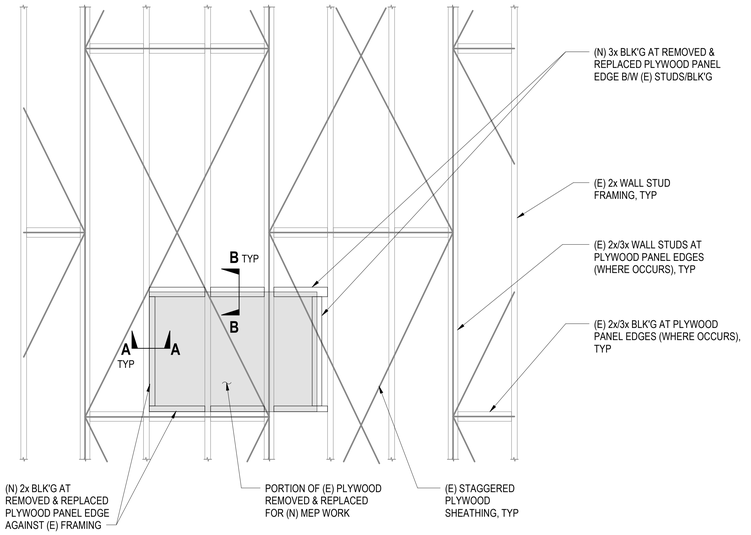
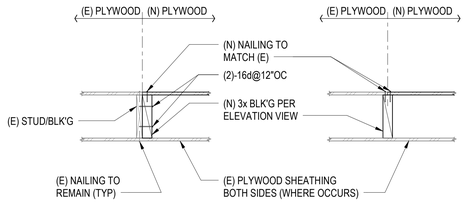


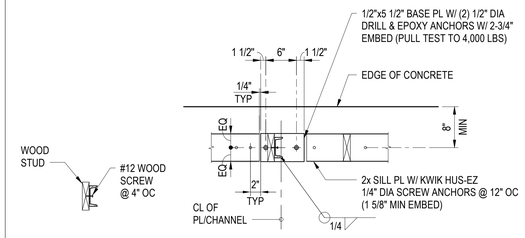
ELEVATION VIEW



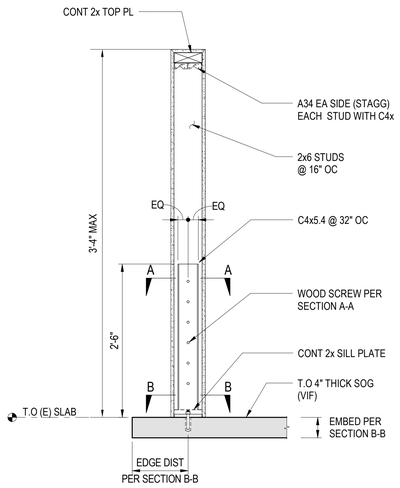
SECTION A-A SECTION B-B

GENERAL NOTES:
1. CONNECT ALL (N) PANEL EDGE BLOCKING TO (E)/(N) FRAMING W/ (2)-8d TN.
2. ANY (E) BLOCKING THAT IS TO BE REMOVED SHALL BE REPLACED TO MATCH PRE-EXISTING CONDITIONS.

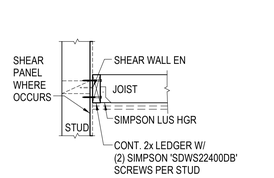
3 3/4" = 1'-0" TYP SHEAR WALL PLYWOOD SHEATHING REMOVAL & REPLACEMENT FOR ACCESS TO PERFORM (N) MEP WORK



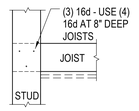
SECTION A-A SECTION B-B



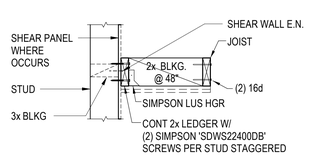
10 1" = 1'-0" PARTIAL HEIGHT WALL SECTION



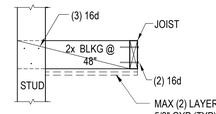
TYPICAL PERPENDICULAR CONDITION



PERPENDICULAR CONDITION WHERE JOISTS CAN LAP STUDS



TYPICAL PARALLEL CONDITION

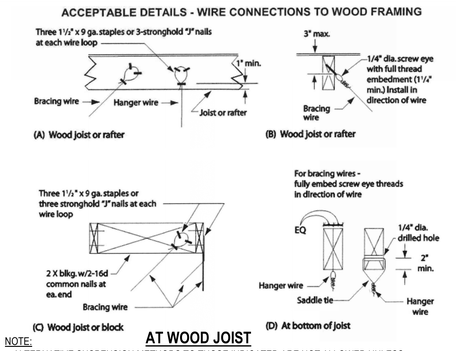


PARALLEL CONDITION WHERE BLOCKING CAN LAP STUDS

SCHEDULE		
JOIST	SPACING	MAX SPAN
2x4	12"	12'-0"
	16"	11'-0"
	24"	9'-0"
2x6	12"	19'-0"
	16"	17'-0"
	24"	15'-0"

PROVIDE CONT 2X BLOCKING AT 48" OC ALONG LENGTH OF JOISTS.

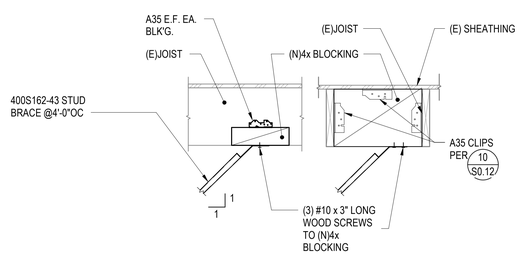
2 NTS TYP CEILING JOIST TO STUD WALL CONNECTION



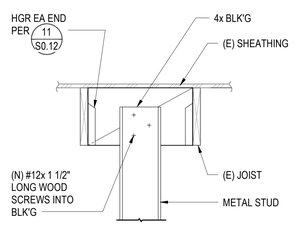
AT WOOD JOIST

NOTE:
ALTERNATIVE SUSPENSION METHODS TO THOSE INDICATED ARE NOT ALLOWED UNLESS APPROVED BY THE ARCHITECT (STRUCTURAL ENGINEER) AND DSA BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT

9 NTS TYPICAL SUSPENDED CEILING HANGER AND SWAY WIRE TO WOOD JOISTS



STUD BRACE TO ROOF FRAMING



WALL STUDS TO ROOF FRAMING

1 NTS TYPICAL INTERIOR METAL STUD BULKHEAD PARTITION WALL CONSTRUCTION DETAILS

DSA FILE NO. 37-C2 A# 04-119030

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MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER 20575

DATE:	11/10/20
DRAWN BY:	RT
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TYPICAL WOOD DETAILS

S0.14

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KEY NOTES

1. INFILL (E) WALL OPENING, SAD, SEE 9/S0.13 .
2. (N) MEP UNIT TO BE INSTALLED OVER (E) EQUIPMENT PAD OVER (E) SOG, VIF. REFER TO MEP/ARCH DWG'S FOR LOCATION AND ANCHORAGE DETAIL.
3. ENLARGE (E) OPENING 6" MAX IN WIDTH AND RE-FRAME OPENING PER 11/S0.13 . REFER TO ELEVATION 1/S3.01
4. PARTIAL-HEIGHT WALL PER 10/S0.14 .
5. MECHANICAL DUCTS TO PENETRATE (E) SHEAR WALL THRU (E) SHEAR WALL OPENINGS, VIF. REFER TO MEP DWG'S.

LEGEND

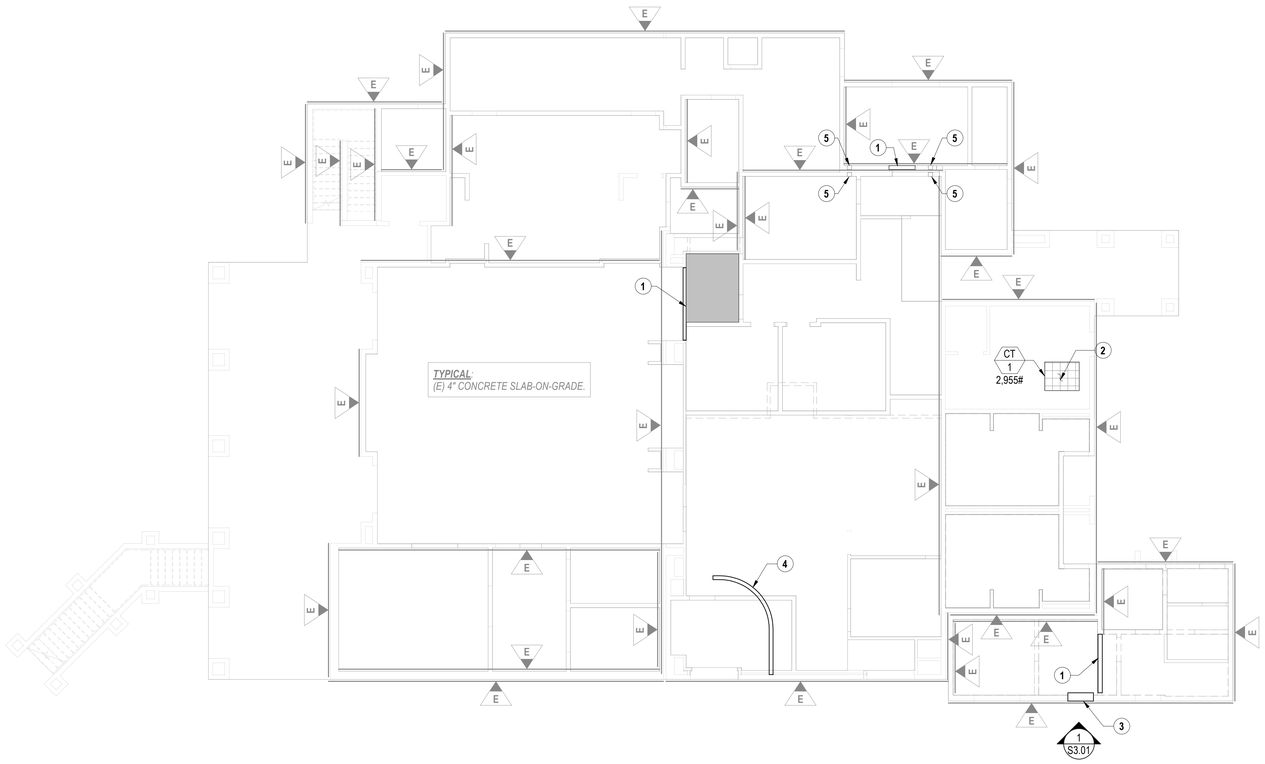
1. ——— INDICATES (E) FRAMING
2. ——— INDICATES (N) FRAMING
3. X INDICATES SCOPE KEY NOTE

PLAN NOTES

1. FOR GENERAL NOTES SEE SHEETS **S0.01** T0 **S0.04**. FOR STRUCTURAL ABBREVIATIONS SEE SHEET **S0.05**
2. FOR TYPICAL DETAILS SEE S0.10 SERIES SHEETS. DETAILS & SCHEDULES INDICATED AS "TYPICAL" MAY NOT BE SPECIFICALLY REFERENCED ON DRAWINGS. DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES BEFORE PROCEEDING WITH WORK.
3. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK SEE ARCHITECTURAL DRAWINGS FOR REMAINDER OF DIMENSIONS NOT SHOWN ON THIS PLAN.
4. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS. SEE MECHANICAL AND ELECTRICAL FOR EQUIPMENT PAD INFORMATION & OPENINGS.
5. ALL STRUCTURAL MEMBERS ARE NEW UNLESS OTHERWISE NOTED AS (E) EXISTING. REFER TO ALL DETAILS & KEY-NOTE DETAILS INDICATED FOR ADDITIONAL FRAMING MEMBERS THAT MAY NOT BE INDICATED IN PLAN.
6. AT PARTIALLY REMOVED (E)FRAMING, PROVIDE SHORING FOR REMAINING FRAMING AS REQUIRED. PRIOR TO WORK, REMOVE/ RELEASE ALL CONSTRUCTION LOADS & LIVE LOADS THAT ARE TRIBUTARY TO ELEMENTS BEING SHORED AND/ OR BEING PARTIALLY DEMOLISHED AS WELL AS BEING STRENGTHENED.
7. INDICATES (E) SHEAR WALL MARK:

   E — INDICATES FACE OF (E) SHEAR WALL W/ PLYWOOD SHEATHING

   "E" INDICATES EXISTING SHEAR WALL
8. WHERE LOCALIZED REMOVAL OF (E) SHEAR WALL PLYWOOD SHEATHING IS REQUIRED FOR ACCESS TO PERFORM (N) MEP WORK, REFER TO DETAIL **3** / **S0.14** .
9. INDICATED AREA OF DEPRESSEDE SLAB, COORDINATE W/ ARCH'L DWGs FOR DEMOLITION OF (E) SLAB AND CONSTRUCTION OF (N) SLAB WHERE APPLICABLE. SEE 4/S0.11 AND 9C/S0.11 FOR CONSTRUCTION OF (N) SLAB-ON-GRADE.



PROJECT NORTH

1 FOUNDATION PLAN
1/8" = 1'-0"

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FOUNDATION PLAN

S2.01

KEY NOTES

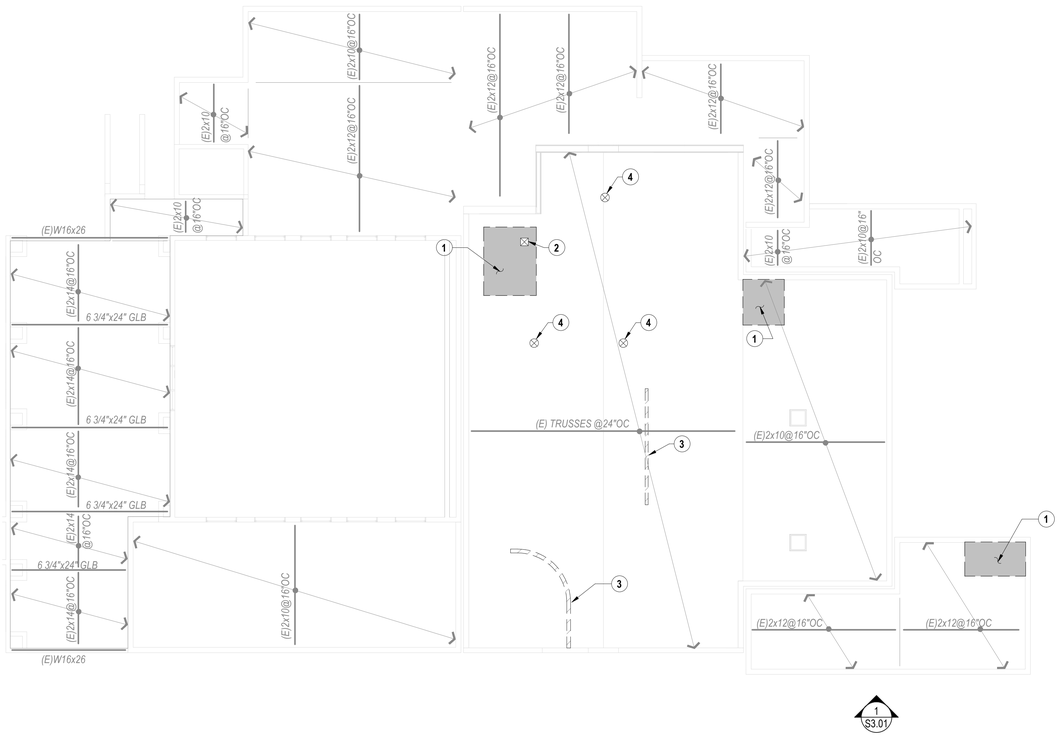
1. AREA TO RECEIVE CEILING JOIST FRAMING PER (2/S0.14) SEE ARCHT'L PLANS FOR REMAINDER OF INFO.
2. CEILING PENETRATION TO BE LOCATED B/W CEILING JOIST FRAMING PER (2/S0.14)
3. SOFFIT FRAMING PER (3/S0.12)
4. PROVIDE OPENING FOR NEW SOLAR TUBES BETWEEN EXISTING ROOF JOISTS PER (3/S0.13), SAD.

LEGEND

1. ——— INDICATES (E) FRAMING
2. ——— INDICATES (N) FRAMING
3. (X) INDICATES SCOPE KEY NOTE

PLAN NOTES

1. FOR GENERAL NOTES SEE SHEETS **S0.01** TO**S0.04**. FOR STRUCTURAL ABBREVIATIONS AND SEE SHEET**S0.05**
2. FOR TYPICAL DETAILS SEE S0.10 SERIES SHEETS. DETAILS & SCHEDULES INDICATED AS "TYPICAL" MAY NOT BE SPECIFICALLY REFERENCED ON DRAWINGS. DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES BEFORE PROCEEDING WITH WORK.
3. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK SEE ARCHITECTURAL DRAWINGS FOR REMAINDER OF DIMENSIONS NOT SHOWN ON THIS PLAN.
4. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS. SEE MECHANICAL AND ELECTRICAL FOR EQUIPMENT PAD INFORMATION & OPENINGS.
5. ALL STRUCTURAL MEMBERS ARE NEW UNLESS OTHERWISE NOTED AS (E) EXISTING. REFER TO ALL DETAILS & KEY-NOTE DETAILS INDICATED FOR ADDITIONAL FRAMING MEMBERS THAT MAY NOT BE INDICATED IN PLAN.
6. AT PARTIALLY REMOVED (E)FRAMING, PROVIDE SHORING FOR REMAINING FRAMING AS REQUIRED. PRIOR TO WORK, REMOVE/ RELEASE ALL CONSTRUCTION LOADS & LIVE LOADS THAT ARE TRIBUTARY TO ELEMENTS BEING SHORED AND/ OR BEING PARTIALLY DEMOLISHED AS WELL AS BEING STRENGTHENED.



1 S3.01

PROJECT NORTH

1 ROOF FRAMING PLAN
1/8" = 1'-0"

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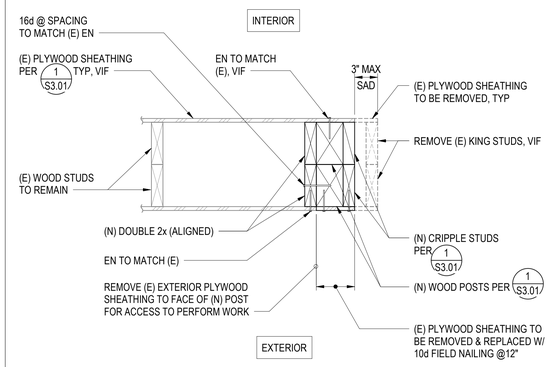
ROOF FRAMING PLAN

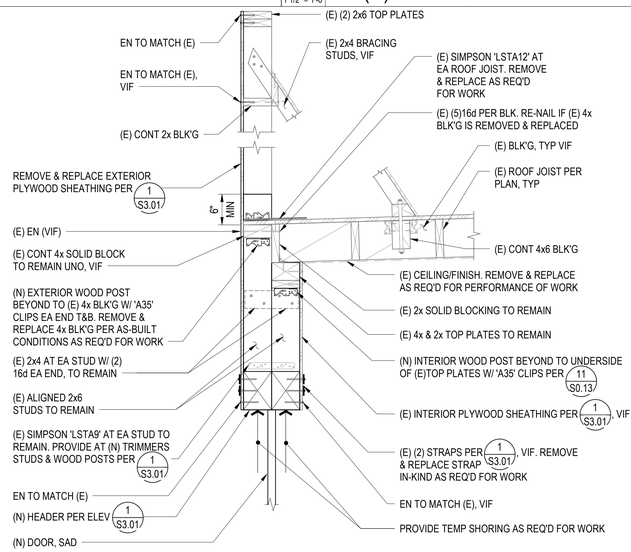
S2.02



PLAN VIEW

3 REMOVAL & RE-NAILING OF (E) PLYWOOD SHEATHING AT (N) OPENING JAMB

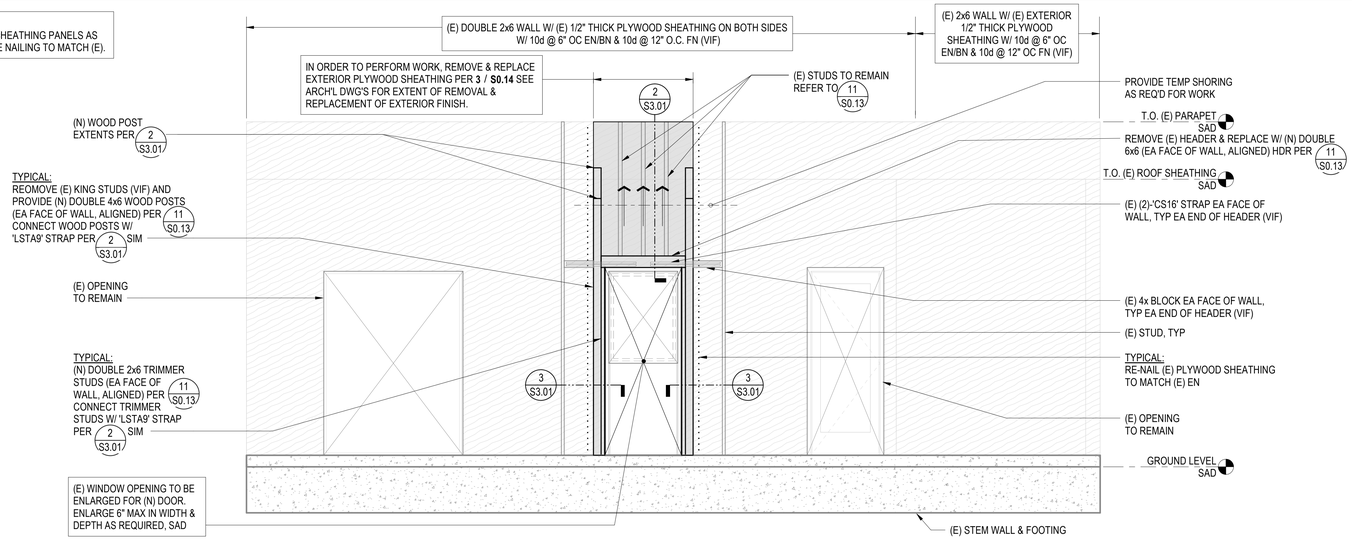
1 1/2" = 1'-0"



2 SECTION

1" = 1'-0"

NOTE:
REMOVE & REPLACE PLYWOOD SHEATHING PANELS AS REQUIRED & RE-ATTACH W/ EDGE NAILING TO MATCH (E).



1 ELEVATION

3/8" = 1'-0"

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ELEVATIONS

S3.01

GENERAL LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	MECHANICAL EQUIPMENT CALLOUT, SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS
	SECTION CALLOUT
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	NEW LINEWORK
	EXISTING LINEWORK
	DEMOLITION LINEWORK
	DIRECTION OF FLOW
10"Ø CD-1 100 CFM	DIFFUSER LABEL - NECK SIZE AND DIFFUSER TYPE - CUBIC FEET PER MINUTE

DUCTWORK LEGEND

SYMBOL	DESCRIPTION
16"x12"	SHEET METAL DUCT
16"x12"	HIDDEN SHEET METAL DUCT
16"x12" (1"L)	INTERNALLY INSULATED SHEET METAL DUCT CLEAR INSIDE DIMENSION SHOWN, LINER THICKNESS IN PARENTHESIS
	STANDARD BRANCH FOR SUPPLY AND RETURN
	ROUND ELBOW DOWN
	ROUND ELBOW UP
	RECTANGULAR TO ROUND TRANSITION
8"	FLEXIBLE DUCT
FC	FLEX CONNECTION
BDD	BACK DRAFT DAMPER
FD	FIRE DAMPER
FSD	COMBINATION FIRE AND SMOKE DAMPER
M	MOTORIZED DAMPER
	BALANCING DAMPER
	SUPPLY DIFFUSER: 2-WAY/3-WAY/4-WAY
	GRILLE: RETURN/EXHAUST
UP DN	SUPPLY AIR DUCT SECTION
UP DN	RETURN AIR DUCT SECTION
UP DN	EXHAUST AIR DUCT SECTION
UC	UNDERCUT DOOR
TG	TRANSFER GRILLE OR LOUVER
DG	DOOR GRILLE OR LOUVER
	SINGLE DUCT VAV BOX WITH REHEAT COIL
	SINGLE DUCT VAV BOX WITHOUT REHEAT COIL
	FILTER
	HUMIDIFIER DISPERSION GRID
	LOUVER
AD	ACCESS DOOR OR ACCESS PANEL (AP) IN DUCTWORK
1" 2"	STATIC PRESSURE CHANGE TAG
	TURNING VANES (RECTANGULAR)

PIPING LEGEND

SYMBOL	DESCRIPTION
4" CHWR	NEW PIPING (SIZE-SERVICE)
(E) 4" CHWR	EXISTING PIPING (SIZE-SERVICE)
	ELBOW FACING AWAY FROM VIEWER
	ELBOW FACING TOWARD VIEWER
	TEE FACING AWAY FROM VIEWER
	TEE FACING TOWARD VIEWER
	PIPE CAP
	TRANSITION, ASYMMETRIC
	TRANSITION, SYMMETRIC
	EXPANSION JOINT (COMPENSATOR)
	PIPE GUIDE
	PIPE ANCHOR
	UNION, SCREWED
	DRAIN, FUNNEL
	PUMP
	BALL VALVE
	BALL VALVE W/ ACTUATOR
	BUTTERFLY VALVE
	BUTTERFLY VALVE W/ ACTUATOR
	GATE VALVE
	GATE VALVE W/ ACTUATOR
	GLOBE VALVE
	GLOBE VALVE W/ ACTUATOR
	THREE-WAY VALVE
	THREE-WAY VALVE W/ ACTUATOR
	CHECK VALVE, SWING
	CHECK VALVE, SPRING LOADED
	MULTI-PURPOSE VALVE
	FLOW MEASURING AND BALANCING VALVE
	HOSE BIBB VALVE
	LOCK SHIELD MANUAL VALVE
	PLUG VALVE
	PRESSURE REGULATOR
	STRAINER, Y-TYPE
	STRAINER WITH HOSE CONNECTION
	PRESSURE GAUGE WITH SHUTOFF COCK
	PRESSURE GAUGE WITH SNUBBER AND SHUTOFF COCK
	SELF-SEALING PRESSURE AND TEMPERATURE TAP
	THERMOMETER
	THERMOWELL
FM	FLOW METER
FL	FLOW REGULATOR AND FLOW LIMITING VALVE
PSD	PUMP SUCTION DIFFUSER
VB	VACUUM BREAKER
	AIR VENT, AUTOMATIC
	FLEXIBLE CONNECTION
	COMBINATION FLEX-VANE STRAIGHTENER
	SAFETY OR RELIEF VALVE
T	STEAM TRAP
S	AIR SEPARATOR

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
(E)	EXISTING
AAV	AUTOMATIC AIR VENT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
BD	BLOWDOWN
BDD	BACK DRAFT DAMPER
BFC	BELOW FINISHED CEILING
BFP	BACK FLOW PREVENTER
BHP	BREAK HORSEPOWER
BLDG	BUILDING
BOB	BOTTOM OF BEAM
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CL	CENTER LINE
CP	CONDENSATE PUMP
CT	COOLING TOWER
CU	CONDENSING UNIT
CV	CONSTANT VOLUME BOX
CWFR	CONDENSER WATER FILTER RETURN
CWFS	CONDENSER WATER FILTER SUPPLY
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DEG	DEGREES
DIA	DIAMETER
DL	DOOR LOUVER
DN	DOWN
DX	DIRECT EXPANSION
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EFF	EFFICIENCY
EL	ELEVATION
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FD	FIRE DAMPER
FG	FILTER GRILLE
FLA	FULL LOAD AMPS
FLR	FLOOR
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FSD	FIRE SMOKE DAMPER
FT	FEET OR FOOT
FX	FLEXIBLE CONNECTION
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HEAD
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HP	HEAT PUMP
HP	HORSEPOWER
HT	HEIGHT
HZ	HERTZ
ID	INSIDE DIAMETER
IN	INCHES
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVERLOAD CIRCUIT PROTECTION
NFA	NET FREE AREA
NIC	NOT IN CONTRACT
NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PERF	PERFORATED
PH	PHASE
POD	POINT OF DISCONNECT
PR	PRESSURE RELIEF
PRV	PRESSURE REDUCING VALVE
PSID	POUNDS PER SQUARE INCH DIFFERENTIAL
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RF	RETURN FAN
RLA	RATED LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SF	SUPPLY FAN
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
TAD	TRANSFER AIR DUCT
TDH	TOTAL DYNAMIC HEAD
TEFC	TOTALLY ENCLOSED FAN COOLED
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	UNDERCUT
V	VOLTS
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAUGE
WPD	WATER PRESSURE DROP
WT	WEIGHT
°F	DEGREES FAHRENHEIT

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS AND OTHER STANDARD INDUSTRY CONVENTIONS.

SHEET INDEX

SHEET	DESCRIPTION
M001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
M002	SCHEDULES
M201	FLOOR PLANS
M301	ENLARGED MECHANICAL ROOM PLAN
M601	DETAILS
M602	DETAILS
M701	TITLE 24 COMPLIANCE FORMS
MD201	DEMOLITION - FLOOR PLANS

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE 2019 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR LOCAL CODES AS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).
2. SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
4. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DRAWINGS AND SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.
5. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
6. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE OWNER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE OWNER INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
7. THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS. THIS CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE MAKING FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION OR ERECTION OF HVAC SYSTEMS. MAKE ALLOWANCE FOR BEAMS, PIPES AND OTHER OBSTRUCTIONS IN BUILDING CONSTRUCTION. CHECK DRAWINGS SHOWING WORK OF OTHER TRADES AND CONSULT WITH THE OWNER'S REPRESENTATIVE IN THE EVENT OF POTENTIAL INTERFERENCE. SHOP DRAWINGS SHALL BE MINIMUM 1/4"=1'-0" SCALE, INDICATING FITTINGS, SIZES, WELDS AND CONFIGURATIONS AND SUBMITTED TO ENGINEER FOR REVIEW.
8. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
9. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
10. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS.
11. THIS CONTRACTOR SHALL NOT BORE, NOTCH, CUT, OR PENETRATE INTO A STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM A DESIGNATED STRUCTURAL ENGINEER AND THE OWNER.
12. ALL PIPE ELBOWS SHALL BE LONG RADIUS UNLESS OTHERWISE SPECIFICALLY NOTED ON THE DRAWINGS.
13. INSTALL MANUAL VOLUME DAMPERS WITHIN DUCT BRANCHES TO BALANCE AIRFLOW CFM. ON INSULATED DUCTS, MOUNT DAMPER REGULATOR ON 2" STAND-OFF BRACKET TO CLEAR INSULATION.
14. ALL MATERIAL EXPOSED WITHIN RA PLENUMS SHALL BE NON-COMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 25 AND SMOKE DEVELOPED INDEX NOT GREATER THAN 50. COMPLY WITH CMC-602.2.
15. COORDINATE ACCESS TO EQUIPMENT WITH WORK OF OTHER TRADES. PROVIDE DUCT ACCESS DOORS AND CEILING ACCESS DOORS TO ALLOW ACCESS FOR FILTER CHANGEOUT, CONTROLS ACCESS AND ACCESS TO SERVICE/REMOVE COMPONENTS INCLUDING, BUT NOT LIMITED TO, FANS, PULLEYS, SHEAVES, BELTS, ETC.
16. MEP COMPONENT ANCHORAGE NOTES:.

    ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED COSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26, AND 30.

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

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

    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.

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

    PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

    THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSP-HD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS.THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

    MP ☒ MD ☒ PPD☐ E ☐ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

    MP ☐ MD ☐ PPD☐ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL OPM #

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ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

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GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX

M001

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CLOSED CIRCUIT COOLING TOWER

MARK	MANUFACTURER & MODEL	LOCATION	TYPE	SERVICE	FAN	WATER SPRAY PUMP					CLOSED CIRCUIT					FAN MOTOR					FLA/MCA/ MOCP	SEISMIC ANCHORAGE DETAIL	OPERATING WEIGHT LBS.	REMARKS
					AIRFLOW CFM	PUMP (QTY)	MOTOR HP	VOLTAGE	PHASE	RPM	FLOW GPM	EWT °F	LWT °F	PD PSI	AMBIENT °F	VOLTAGE	PHASE	HERTZ	HP	ENCLOSURE				
CT-1	BAC NXF-0403N-CS2TS-H1	MECHANICAL ROOM	FORCED DRAFT	CONDENSER WATER	8,416	1	0.5	460	3	3,440	75	98	88	1.04	72	460	3	60	5	ODP	7.8/9.3/15	2/M601	2,955	PROVIDE WITH SINGLE POWER POINT OF CONNECTION TO CONTROL PANEL FOR SPRAY PUMP AND FAN. FAN IS PROVIDED WITH EC MOTOR.

WATER SOURCE HEAT PUMPS

MARK	MANUFACTURER & MODEL	LOCATION	TYPE	SERVICE	INDOOR BLOWER			NAMEPLATE		COOLING CAP		EDB/EWB (°F)	EER	HEATING CAP @ 47 °F (MBH)	DISCHARGE AIR TEMP (°F)	HSPF (COP)	FLOW RATE (GPM)	EWT (°F)	LWT (°F)	OSA (CFM)	SEISMIC ANCHORAGE DETAIL	OPERATING WEIGHT (LBS)	REMARKS
					AIRFLOW (CFM)	ESP (WC)	HP	(FLA/MCA/MOCP)	V/PH	SENS (MBH)	TOT (MBH)												
WSHP-3	TRANE GEHE0484	FOOD PANTRY 934	SINGLE SPEED COMPRESSOR, EC MOTOR	STUDENT GATHERING 2 931/ ASG 932/ FOOD PANTRY 934	1,600	0.68	1	9/10.58/15	460/3	34.0	48.9	80/68	13.13	57.7	100.9	(4.65)	7.3	88	98	750	1/M602	398	UNIT TO HAVE 2" MERV 13 FILTER IN FILTER RACK PER DETAIL 2/M602

EXHAUST FAN

MARK	MANUFACTURER & MODEL	TYPE	SERVICE	LOCATION	FAN			DRIVE		MOTOR			SEISMIC ANCHORAGE DETAIL	OPERATING WEIGHT LBS.	REMARKS
					AIRFLOW CFM	TOTAL SP IN. WG	RPM	TYPE	VFD	WATTS	V/PH	RPM			
EF-10	GREENHECK SP-AP0511W	CEILING MOUNTED	TOILET 919	TOILET 919	100	0.5	861	DIRECT	ECM	11	115/1	861	3/M602	15	1 2

1 DDC CONTROLLED

2 PROVIDE WITH SPEED CONTROLLER AND EC MOTOR

GRILLES, REGISTERS, DIFFUSERS

MARK	DESCRIPTION	MATERIAL	STYLE	BLADES	DAMPER	FINISH	REMARKS
CD-1	TITUS MCD	STEEL	LAY-IN	-	NO	2	1
CD-2	TITUS MCD	STEEL	HARD LID	-	NO	2	
EG-1	TITUS 350RL	STEEL	HARD LID	3/4" BLADES, 35 DEGREE DEFELECTION	NO	2	3
RG-1	TITUS PAR	STEEL	LAY IN	-	NO	2	1

1 PROVIDE WITH FILLER PANEL

2 COORDINATE WITH ARCHITECT

3 12"X12" FACE.

WATER SOURCE HEAT PUMP SCHEDULE EXISTING TO REMAIN

UNIT SYMBOL (2)(4)(5)	WSHP-1	WSHP-2	WSHP-3	WSHP-4	(2)WSHP-5	(2)WSHP-6	WSHP-7	(2)WSHP-8	(2)WSHP-9
LOCATION	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING	CEILING
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL	GEH018	GEH024	GEH024	GEH036	GEH042	GEH042	GEH048	GEH060	GEH060
CFM	600	800	650	1000	1200	1200	1400	2000	2000
EXTERNAL S.P. "WG	0.58	0.4	0.54	0.62	0.68	0.68	0.86	0.51	0.51
FAN H.P.	1/3	1/3	1/3	1/2	1/2	1/2	1/2	1	1
COOLING: TOTAL CAPACITY – MBH	18.44	25.14	24.38	34.23	38.96	38.96	46.76	53.06	53.06
COOLING: SENS. CAPACITY – MBH	14.20	21.53	19.04	24.42	28.38	28.38	37.31	43.11	43.11
COOLING: EAT – °F – DB	80.5	85.9	84.3	79.9	81.25	81.25	84.2	76.00	76.00
COOLING: EAT – °F – WB	66.5	67.7	67.4	66.9	67.7	67.7	67.8	63.00	63.00
COOLING: EWT – °F	90	90	90	90	90	90	90	90	90
COOLING: SHR %	76	86	79	71	73	73	80	80	80
COOLING: HEAT REJECTION MBH	24.00	32.96	31.90	44.21	50.96	50.96	61.67	71.22	71.22
HEATING: CAPACITY – MBH	20.92	30.14	29.33	39.17	45.58	45.58	53.94	66.48	66.48
HEATING: EAT –° F – DB	61.0	55.0	55.0	64.8	55.4	55.4	55.0	67.4	67.4
HEATING: EWT –° F	60	60	60	60	60	60	60	60	60
HEATING: HEAT ABSORPTION MBH	16.07	23.53	22.51	29.58	34.52	34.52	40.82	50.04	50.04
GPM	4.13	5.50	5.50	8.25	9.63	9.63	10.3	9.50	9.50
FLUID PD – FT WG	6.59	6.92	6.92	8.58	12.18	12.18	8.12	6.18	6.18
O.S.A. CFM	150	450	300	150	500	500	600	130	130
COMPRESSOR INPUT – RLA	7.6	3.90	3.90	4.9	4.8	4.8	6.4	7.5	7.5
MIN. CIR. AMPACITY / MOCP	11.6 / 15	5.80 / 15	5.80 / 15	7.8 / 15	7.7 / 15	7.7 / 15	9.4 / 15	12.1 / 15	12.1 / 15
VOLTS – PHASE	208 – 1ø	460 – 3ø	460 – 3ø	460 – 3ø	460 – 3ø	460 – 3ø	460 – 3ø	460 – 3ø	460 – 3ø
EER / SEER	13.5 / –	12.8 / –	12.6 / –	13.7 / –	12.0 / –	12.0 / –	12.8 / –	12.8 / –	12.8 / –
COP	4.50	4.40	4.40	4.70	4.20	4.20	4.30	4.40	4.40
FILTER SIZE	(1)	(1)	(1)	(4)	(1)	(1)	(1)	(1)	(1)
FAN SPEED	LOW	MEDIUM	LOW	LOW	MEDIUM	MEDIUM	MEDIUM	HIGH	HIGH
FAN CONFIGURATION	HIGH STATIC	STANDARD	STANDARD	STANDARD	HIGH STATIC	HIGH STATIC	STANDARD	HIGH STATIC	HIGH STATIC
OPERATING WEIGHT – LBS (3)	350	350	350	400	400	400	500	500	500

REMARKS

1– SEE DETAILS 1, 2, 3/M-0.6 AND 2/M0-5 FOR MORE INFORMATION.

2– FIRE MARSHAL APPROVED, UL-LISTED DUCT SMOKE DETECTOR TO BE INSTALLED IN MAIN SUPPLY AIR DUCT STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. TIE TO FIRE ALARM SYSTEM TO IMMEDIATELY SHUT DOWN THE UNIT UPON SMOKE DETECTION. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY.

3– UNIT COMPLETE WITH NEMA RATED, UL LISTED DISCONNECT SWITCH.

4– FLUSH ALL WSHP UNIT PRIOR TO INSTALLATION.

5– PROVIDE UNIT SHUT DOWN RELAY TO SHUT DOWN ALL WATER SOURCE HEAT PUMP IN CASE OF LOOP WATER FLOW LOSS.

(FOR REFERENCE ONLY)

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MIRACOSTA COMMUNITY COLLEGE DISTRICT

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SCHEDULES

M002

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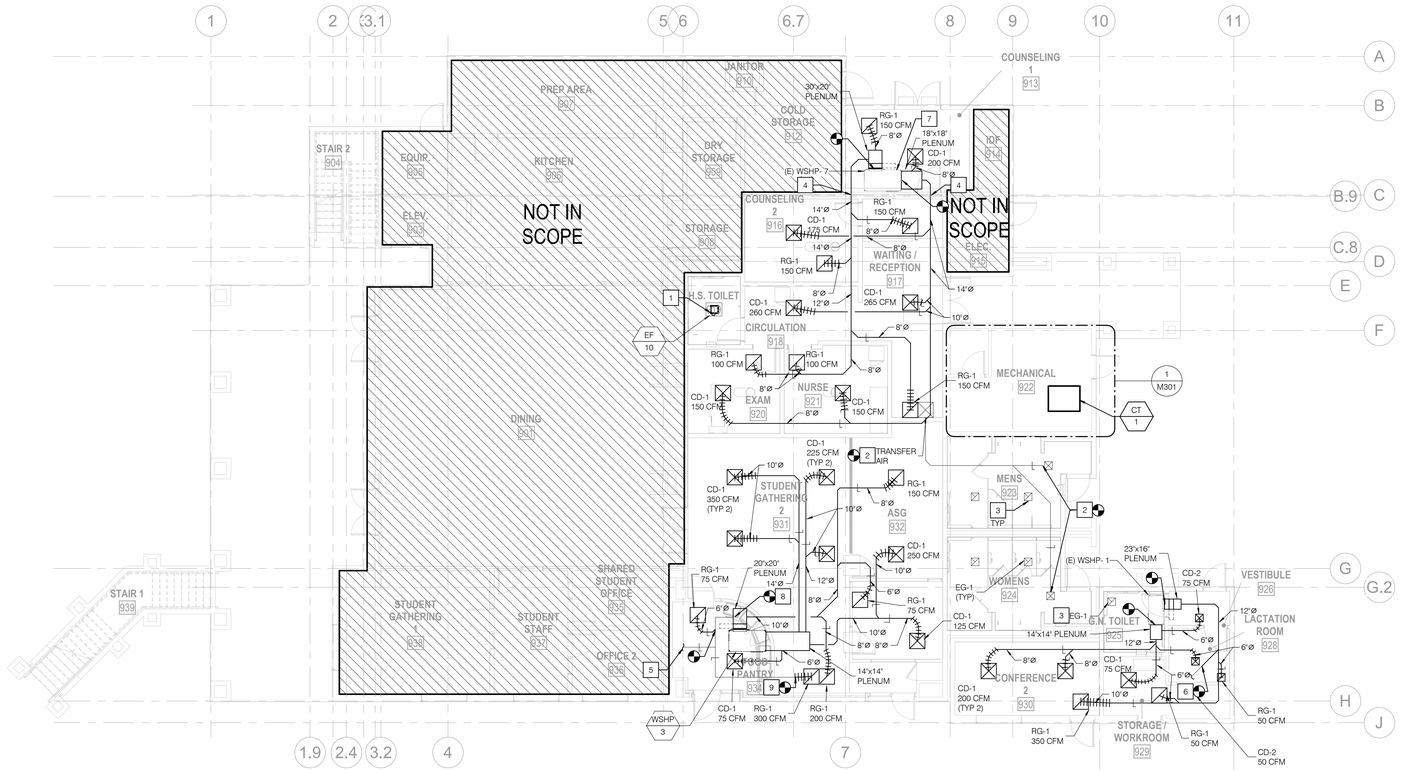
NOTES

1. ROUTE 8" EXHAUST AIR DUCT UP THROUGH ROOF AND TERMINATE WITH GOOSENECK.
2. UPDATED LOCATION FOR TRANSFER AIR GRILLE FOR MEN'S AND WOMEN'S RESTROOMS. RE-ROUTE (E) DUCT AS NEEDED FOR RECONNECTION.
3. REPLACE ALL EXHAUST AIR GRILLES IN THE RESTROOMS. RECONNECT (E) EXHAUST AIR DUCT TO GRILLES.
4. ROUTE 14"Ø SA AND RA DUCT THROUGH (E) OPENINGS IN WALL.
5. (E) OSA DUCT UP THROUGH ROOF TO REMAIN.
6. POC FOR (E) OSA DUCT UP THROUGH ROOF TO REMAIN.
7. (E) OSA DUCT FOR (E) WSHP-7 IS NOT SHOWN ON AVAILABLE AS-BUILT DOCUMENTS. CONTRACTOR TO VERIFY THE LOCATION OF THE (E) OSA DUCT AND PROTECT IN PLACE.
8. POC FOR (E) RA DUCT TO WSHP-3. EXTEND DUCT AS NEEDED FOR RECONNECTION.
9. POC FOR (E) RA DUCT TO RA GRILLE.

GENERAL NOTES

1. ALL (E) OUTSIDE AIR DUCT AND EXHAUST AIR DUCT TO REMAIN.
2. HYDRONIC PIPING TO WSHP-3 IS EXISTING TO REMAIN. PIPING FROM (E) WSHP-3 TO BE DISCONNECTED DURING DEMOLITION AND CONNECTED TO WSHP-3 DURING CONSTRUCTION.



1 FIRST FLOOR HVAC PLAN

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

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

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MIRACOSTA COMMUNITY COLLEGE DISTRICT

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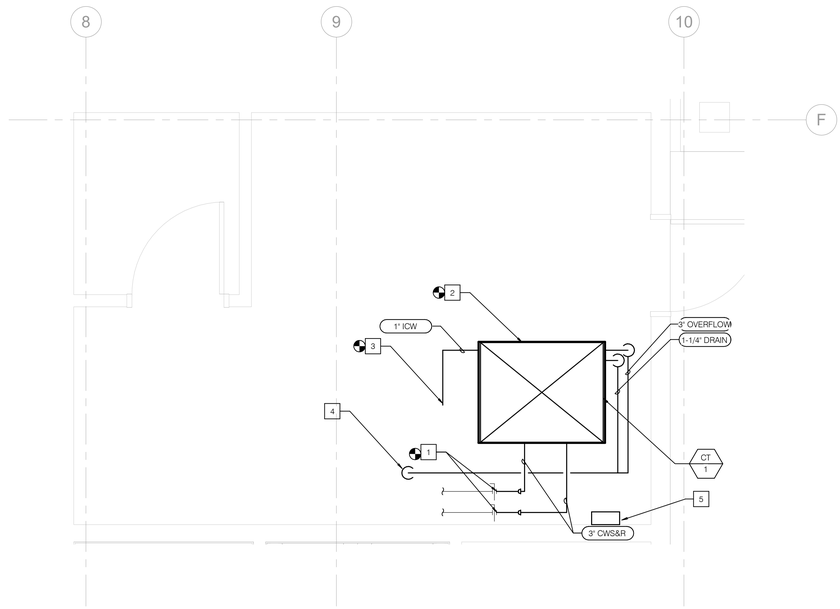
FLOOR PLANS

M201

NOTES

1. RECONNECT PIPING FROM (E) SHUT OFF VALVES TO FLUID COOLER. PROVIDE 4" PIPING CONNECTIONS TO FLUID COOLER AND REDUCE TO 3" PRIOR TO CONNECTION TO (E) 3" CDW MAIN.
2. POC FOR 48" x 39" DISCHARGE DUCT TO CT-1. UP THROUGH ROOF. TRANSITION DUCT AS REQUIRED TO GO THROUGH (E) ROOF OPENING. PROVIDE SECURITY BARS FOR FALL PROTECTION.
3. POC FOR 1" MAKE UP WATER CONNECTION FROM CT-1. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.
4. 1-1/4" DRAIN AND 3" OVERFLOW DOWN TO FLOOR SINK.
5. REMOVE (E) CHEMICAL TREATMENT SYSTEM AND PROVIDE WALCHEM WCT100W CONDUCTIVITY CONTROLLER WITH BIOCIDE FEED. INSTALL PER MANUFACTURERS REQUIREMENTS.



1 MECHANICAL ROOM 922

SCALE: 1/2" = 1'-0"

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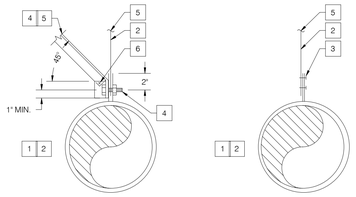
ENLARGED MECHANICAL ROOM PLAN

M301



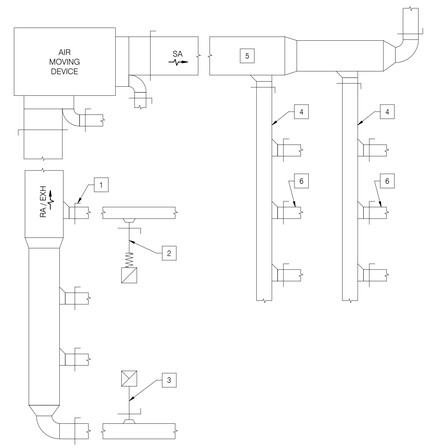
FOR ROUND DUCTS UP TO 24"Ø MAX

NOTES

1. REFER TO DRAWINGS FOR ROUND DUCT SIZES. FOR ADDITIONAL DUCT SUPPORT AND OTHER DUCT CONSTRUCTION REQUIREMENTS REFER TO SMACNA DUCT CONSTRUCTION STANDARDS.
2. GALVANIZED STEEL DUCT HANGER STRAPS, SIZE PER 2005 SMACNA DUCT CONSTRUCTION STANDARDS TABLE 5-2. ROUND DUCT SUPPORTS SHALL BE PROVIDED AT MAXIMUM 12'-0" ON CENTER FOR STRAIGHT LENGTH OF DUCT AND MINIMUM 2'-0" ON CENTER AT ALL ELBOWS AND DUCT TRANSITIONS.
3. SECURE GALVANIZED STEEL HANGER STRAP TO DUCT STRAP WITH TWO (2) #10 x 5/8" TEK SCREW.
4. WHERE REQUIRED TO PREVENT IMPACT BETWEEN DUCT BEING SUPPORTED WITH LARGER DUCTS OR OTHER UTILITIES, PROVIDE L2"x2"x1/4 DIAGONAL ANGLE BRACE AT ALTERNATE SIDES OF HANGERS. SECURE ANGLE BRACE TO HANGER STRAP WITH A307 MACHINE BOLT AND NUT.
5. REFER TO OPM-0043-12 DETAILS X1.0, N4.10 AND M4.10 FOR SUPPORT TO STRUCTURE ABOVE.
6. #8 SMS (TYP.).

6 ROUND DUCT SUPPORT

NO SCALE



NOTES

1. LOCATE EACH MVD AT EACH DUCT TAKE-OFF (TYP). ONLY APPLICABLE IN LOCATIONS WHERE DUCTWORK AND ALL DUCT ACCESSORIES ARE BEING REPLACED.
2. RA BRANCH.
3. EXH BRANCH.
4. SUB-MAIN (2 OR MORE BRANCH MAINS).
5. MAIN DUCT.
6. BRANCH MAIN (2 OR MORE OUTLETS).

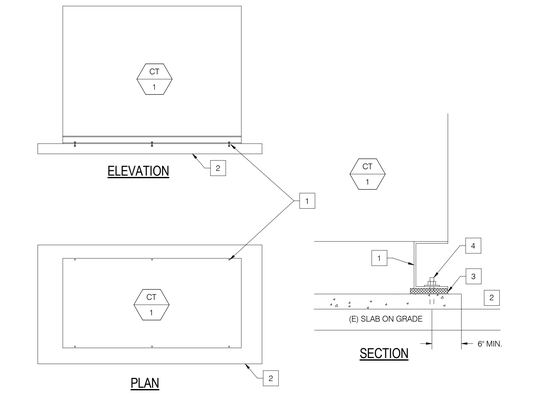
GENERAL NOTE

A. PROVIDE MANUAL VOLUME DAMPER AT EACH MAIN, SUB-MAIN, BRANCH MAIN, AND BRANCH TAKE-OFF. BRANCH DAMPER SHALL NOT SUBSTITUTE FOR OBD AT TERMINAL. ONLY APPLICABLE IN LOCATIONS WHERE DUCTWORK AND ALL DUCT ACCESSORIES ARE BEING REPLACED.

B. PROVIDE CEILING ACCESS TO ALL DAMPERS. IF DAMPERS ARE INSTALLED IN A LOCATION THAT THEY ARE INACCESSIBLE, PROVIDE REMOTE, MOTORIZED ACTUATOR. (POTTORFF OR EQUAL)

4 TYP. MANUAL VOLUME DAMPER LOCATION DIAGRAM

NO SCALE



NOTES

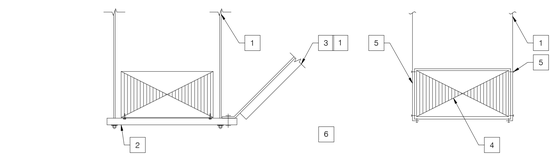
1. MANUFACTURER-PROVIDED C-CHANNEL. (24" MAX HEIGHT).
2. (E) CONCRETE HOUSEKEEPING PAD TO BE RE-USED.
3. NEOPRENE VIBRATION ISOLATORS.
4. PROVIDE 3/4" SS HILTI KB-TZ W/ 4-5/16" EMBEDMENT AT EACH CORNER AND MID LENGTH OF EQUIPMENT, (6) TOTAL. ICC ESR-1917. DRILL ADDITIONAL 13/16" DIA HOLES IN MANUFACTURER-PROVIDED C-CHANNEL CURB AS NEEDED TO RECEIVE SPECIFIED EXPANSION ANCHORS.

GENERAL NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.

2 CLOSED CIRCUIT COOLING TOWER MOUNTING DETAIL

NO SCALE



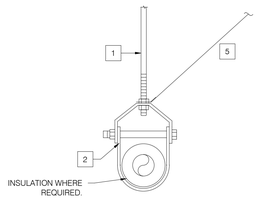
FOR RECTANGULAR DUCTS UP TO 6 SQ. FT. CROSS SECTIONAL AREA MAX

NOTES

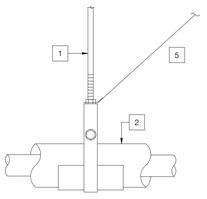
1. SUPPORT DUCT HANGER TO STRUCTURE ABOVE. ATTACHMENT TO STRUCTURE ABOVE TO BE OSPHD OPM 0043-13
2. PROVIDE UNISTRUT P9000 BELOW DUCTWORK FOR SUPPORT. SECURE DUCTWORK TO UNISTRUT WITH #10 TEK SCREWS. SUPPORT STRUT SYSTEM TO STRUCTURE PER OSHPD OPM 0043-13. SECURE HANGER ROD TO UNITSTRUT WITH NUT AND WASHER. DUCT SUPPORTS SHALL BE PROVIDED AT MAXIMUM 10'-0" ON CENTER FOR STRAIGHT LENGTH OF DUCT AND MAXIMUM 2'-0" ON CENTER AT ALL ELBOWS AND DUCT TRANSITIONS.
3. WHERE REQUIRED TO PREVENT IMPACT BETWEEN DUCT BEING SUPPORTED WITH LARGER DUCTS OR OTHER UTILITIES, PROVIDE 2"X2"X16 GAUGE GALVANIZED STEEL DIAGONAL ANGLE BRACE AND CONNECT TO UNISTRUT AT ALTERNATE SIDES OF EVERY HANGER FOR ADDITIONAL SUPPORT. SECURE DIAGONAL ANGLE AND DUCT HANGER STRAP TO UNISTRUT WITH 5/8" DIA. THREADED ROD AND NUT.
4. REFER TO DRAWINGS FOR RECTANGULAR DUCT SIZES. FOR ADDITIONAL DUCT SUPPORT AND BRACING TO STRUCTURE, REFER TO OSHPD OPM 0043-13.
5. GALVANIZED STEEL DUCT HANGER STRAPS. DUCT SUPPORTS SHALL BE PROVIDED AT MAXIMUM 10'-0" ON CENTER FOR STRAIGHT LENGTH OF DUCT AND MINIMUM 2'-0" ON CENTER AT ALL ELBOWS AND DUCT TRANSITIONS. ATTACH STRAPS TO DUCT WITH #8 SMS, TYPICAL.
6. REFER TO SPECIFICATION SECTION 230529 FOR ADDITIONAL DUCT SUPPORT REQUIREMENTS. REFER TO SPECIFICATION SECTION 230713 FOR INSULATION REQUIREMENTS.

5 RECTANGULAR DUCT SUPPORT

NO SCALE

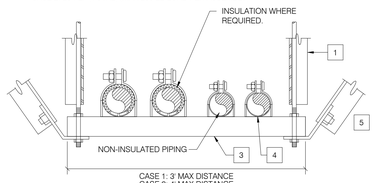


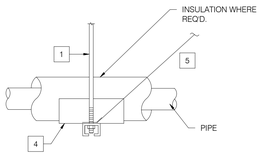
SINGLE PIPE HANGER



SINGLE PIPE HANGER

CASE 1: 10 PLF (TOTAL) (MAX 200 LB LOAD PER ASSEMBLY)
CASE 2: 20 PLF (TOTAL) (MAX 200 LB LOAD PER ASSEMBLY)





NOTES

1. 1/2" Ø HANGER ROD. CASE 1: AT MAX 20' ON CENTER, CASE 2: AT MAX 10' ON CENTER WELDED TO 2"X2"X16 GAUGE VERTICAL ANGLE. ATTACH TO STRUCTURE ABOVE PER 11/S0.12.
2. PROVIDE A SECTION OF HIGH COMPRESSION STRENGTH INSULATION AT EACH HANGER POINT. INSULATION MAY BE HALF ROUND OR FULL ROUND & EXTENDED 2" BEYOND GALV. SHIELD EA. WAY.
3. MULTIPLE PIPES SUPPORTED ONTO UNISTRUT P1000 CHANNEL. PROVIDE INSULATED HOT WATER PIPING ON ROLLERS AND CHILLED WATER PIPING SECURED WITH PIPE CLAMPS. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS FOR SUPPORTS AND FOR PIPING MATERIAL REQUIREMENTS.
4. PROVIDE PIPE SADDLE BETWEEN PIPE AND HANGER.
5. PROVIDE DIAGONAL BRACE FOR ALL PIPING. BRACE SHALL BE MINIMUM P1000 UNISTRUT, INSTALLED AT MAXIMUM 20'-0" ON CENTER OR WITHIN 2'-0" OF ELBOWS. CONNECTION TO STRUCTURE PER 10/S0.12.

PIPING WEIGHT

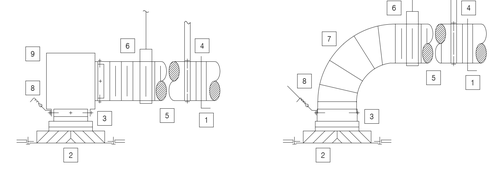
NOMINAL PIPE SIZE (IN)	WEIGHT FILLED WITH WATER (Lbs/Ft)	WEIGHT FILLED WITH WATER + INSULATION (Lbs/Ft)
3/4"	0.66	1.36
1"	1.01	1.80
1-1/4"	1.43	-
1-1/2"	1.91	-
2"	3.09	-
3"	10.77	-

GENERAL NOTES

A. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.

3 PIPE HANGER

NO SCALE



NOTES

1. PROVIDE MANUAL VOLUME DAMPER NEAR MAIN DUCT CONNECTION. MANUAL VOLUME DAMPER SHALL BE LOCKING QUADRANT TYPE AS MANUFACTURED BY DURO-DYNE SPECLINE ELEVATED DAMPER REGULATOR WITH HEX NUT.
2. CEILING DIFFUSER SUPPORTED ONTO CEILING. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT CEILING TYPES.
3. RECTANGULAR OR SQUARE TO ROUND CEILING CAN SECURED TO DIFFUSER WITH MINIMUM 4, #10 SHEET METAL SCREWS AND SEAL AIRTIGHT WITH CASCOTE DUCT SEALANT. IF REQUIRED, PROVIDE ADDITIONAL GALVANIZED STEEL DUCTWORK TO ALLOW FOR STRAIGHT DUCT RUN DOWN TO CEILING DIFFUSER
4. CONNECT RIGID DUCT WITH MINIMUM 3, #10 SHEET METAL SCREWS AND SEAL WITH CASCOTE DUCT SEALANT. SUPPORT RIGID DUCT TO STRUCTURE ABOVE WITH SHEET METAL STRAPS PER 2019 CMC.
5. FLEX DUCT SHALL NOT EXCEED MAXIMUM LENGTH OF 6'-0". FLEX DUCT SHALL BE CASCO SILENTFLEX II.
6. PROVIDE 1-1/2" WIDE, 22 GAUGE HANGER STRAP FOR DUCT SUPPORT. CONNECT 12 GAUGE WIRE FOR SUPPORT TO STRUCTURE ABOVE. WIRE SHALL BE USED OF FLEX DUCT ONLY.
7. PROVIDE GALVANIZED STEEL 90° FULL RADIUS ELBOW AND ADDITIONAL STRAIGHT LENGTH OF DUCT (AS REQUIRED) FOR CONNECTION TO DIFFUSER CEILING CAN COLLAR. CONNECT DUCT TO DIFFUSER CEILING CAN WITH MINIMUM 3, # 10 SHEET METAL SCREWS AND SEAL AIRTIGHT WITH DUCT SEALANT. CONNECT SHEET METAL ELBOW TO FLEX DUCT. INSULATE DIFFUSER CEILING CAN AND ALL DUCTWORK.
8. PROVIDE 1"X3" LONG, 16 GAUGE BENT CLIP SECURED TO DIFFUSER WITH #10 SHEET METAL SCREWS. TWO PER DIFFUSER AT DIAGONAL. SECURE 12 GAUGE WIRE TO STRUCTURE ABOVE.
9. ALTERNATE CEILING DIFFUSER CONNECTION AT SHALLOW CEILING SPACE LOCATIONS. PROVIDE GALVANIZED STEEL PLENUM AND INSULATE EXTERIOR. SECURE TO CEILING DIFFUSER WITH MINIMUM FOUR #10 SHEET METAL SCREWS AND SEAL AIR TIGHT WITH CASCOTE DUCT SEALANT.

1 CEILING DIFFUSER CONNECTION

NO SCALE

DSA FILE NO. 37-C2 A# 04-119030

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION
3333 Manchester Ave, Cardiff, CA 92007

100% CONSTRUCTION DOCUMENS

MIRACOSTA COLLEGE

CONSULTANT

P2S ENG
Long Beach | Los Angeles
San Diego | San Jose
p2sinc.com

ENGINEER

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
SIGNED: 09/30/2020

ARCHITECT

LICENSED ARCHITECT
Mark A. Eacret
No. C-28195
REN. 5-31-2021
STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
-

DATE: 2020/11/10
DRAWN BY: -
CHECKED BY: -

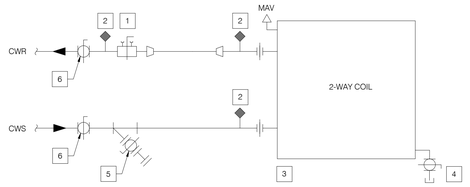
REVISIONS

No.	Description	Date

100% CONSTRUCTION DOCUMENS

DETAILS

M601

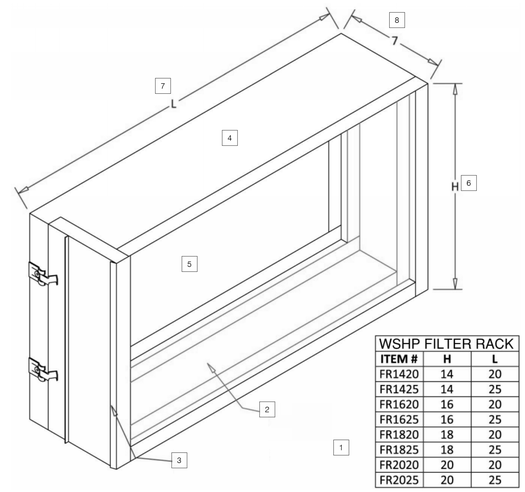


NOTES

1. PROVIDE CALIBRATED BALANCING VALVE FOR COIL BALANCING.
2. PROVIDE PRESSURE/TEMPERATURE PORTS ON THE SUPPLY AND RETURN LINES AND ENSURE THEY ARE POINTED NO LOWER THAN HORIZONTAL (TYP.)
3. INSULATION FOR COIL HOOK-UP SHALL BE 1/2" THICK.
4. PROVIDE DRAIN VALVE WITH HOSE END AT ALL COIL LOW POINTS. VALVE SHALL BE SAME SIZE AS COIL DRAIN SIZE.
5. STRAINER
6. ISOLATION BALL VALVE. VALVE SHALL BE INDEPENDENT FROM PIPING PACKAGE.

4 COIL PIPING CONNECTION

NO SCALE



WSHP FILTER RACK		
ITEM #	H	L
FR1420	14	20
FR1425	14	25
FR1620	16	20
FR1625	16	25
FR1820	18	20
FR1825	18	25
FR2020	20	20
FR2025	20	25

NOTES

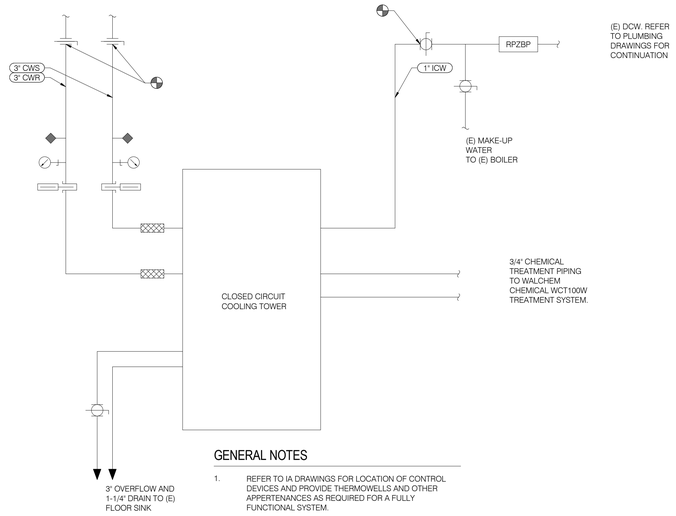
1. CONTRACTOR SHALL PROVIDE FAMCO FILTER ASSEMBLY (MODEL FR), OR APPROVED EQUAL UPSTREAM OF WSHP. COORDINATE FILTER ACCESS BASED ON FIELD CONDITIONS.
2. PROVIDE WITH 5" WIDE SLOT TO ACCOMMODATE 2" MERV 13 FILTER.
3. ACCESS DOOR WITH SNAP CLIPS FOR FILTER REMOVAL AND INSERTION.
4. CONSTRUCT OF 22GA GALVANIZED STEEL. CONTRACTOR SHALL PROVIDE AND INSTALL DUCT TRANSITIONS AS NECESSARY FOR CONNECTION TO RETURN AIR OPENING ON WSHP.
5. CONTRACTOR SHALL PROVIDE AND INSTALL FLEX CONNECTOR BETWEEN RETURN AIR OPENING ON WSHPS AND FILTER RACK.
6. HEIGHT OF FILTER RACKS SHALL BE COORDINATED WITH DIMENSIONAL DATA FROM WSHP APPROVED SUBMITTALS AND WSHP FILTER RACK CHART 2/M601.
7. WIDTH OF FILTER RACKS SHALL BE COORDINATED WITH DIMENSIONAL DATA FROM WSHP APPROVED SUBMITTALS AND WSHP FILTER RACK CHART 2/M601.
8. MINIMUM 7" WIDTH.

GENERAL NOTES

1. MAINTAIN CLEARANCE AT FILTER INSERTION LOCATION. UNITS TO BE STARTED UP WITH CONSTRUCTION FILTERS. PERMANENT FILTERS TO BE INSTALLED WITH DISTRICT PRESENT.

2 WSHP EXTERNAL FILTER RACK

NO SCALE

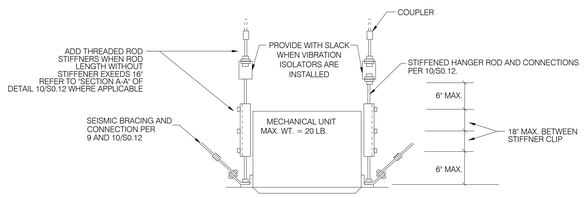


GENERAL NOTES

1. REFER TO IA DRAWINGS FOR LOCATION OF CONTROL DEVICES AND PROVIDE THERMOWELLS AND OTHER APPERTENANCES AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.

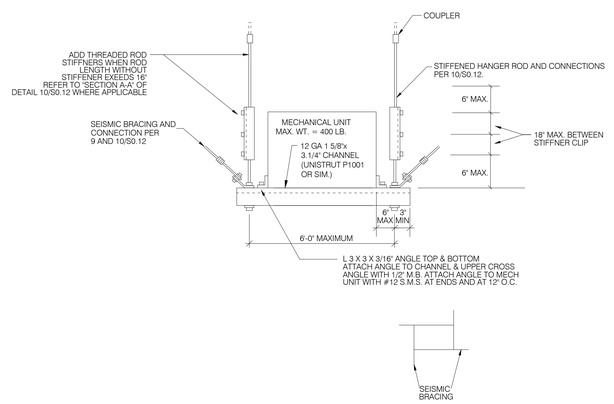
5 CLOSED CIRCUIT COOLING TOWER PIPING CONNECTIONS

NO SCALE



3 EXHAUST FAN SUPPORT

NO SCALE



1 SUSPENDED MECHANICAL EQUIPMENT

NO SCALE

C:\Users\Claudia Naranjo\Documents\J0977_MEPT_R19-Central_CLAUDIA.NARANJO.rvt
11/10/2020 4:38:39 PM

DSA FILE NO. 37-C2 A# 04-119030

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

3333 Manchester Ave, Cardiff, CA 92007

100% CONSTRUCTION DOCUMENS

MIRACOSTA COLLEGE

CONSULTANT

P2S ENG

Long Beach | Los Angeles
San Diego | San Jose

p2sinc.com

ENGINEER

SIGNED: 09/30/2020

ARCHITECT

LICENSED ARCHITECT
Mark A. Engel
No. C-28195
REN. 5-31-2021
STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER	--
DATE:	2020/11/10
DRAWN BY:	-
CHECKED BY:	-

REVISIONS

No.	Description	Date

100% CONSTRUCTION DOCUMENS

DETAILS

M602

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Mira Costa Building 900 Modernization	Report Page: Page 9 of 9
Project Address: 3333 Manchester Ave	Date Prepared: 2020-09-29

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Jordan Katz	Documentation Author Signature:	
Company:	P2S Inc.	Signature Date:	09/30/2020
Address:	9665 Chesapeake Dr. Suite 230	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	San Diego/CA/92123	Phone:	619-467-4909

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:	Jordan Katz	Responsible Designer Signature:	
Company :	P2S Inc.	Date Signed:	09/30/2020
Address:	9665 Chesapeake Dr. Suite 230	License:	M39702
City/State/Zip:	San Diego/CA/92123	Phone:	619-467-4909

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Mira Costa Building 900 Modernization	Report Page: Page 8 of 9
Project Address: 3333 Manchester Ave	Date Prepared: 2020-09-29

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A", any active cells that are left blank will result in non-compliance in Table C.

01	02
	Plan sheet or construction document location
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	Yes	See Sheet M701

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Mira Costa Building 900 Modernization	Report Page: Page 7 of 9
Project Address: 3333 Manchester Ave	Date Prepared: 2020-09-29

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCV-MCH-04-H Duct Leakage Test *NOTE: Must be completed by a HERS Rater*	☐	☐
○	◉	NRCV-MCH-24 Enclosure Air Leakage Worksheet *NOTE: Must be completed by a HERS Rater*	☐	☐
○	◉	NRCV-MCH-27 High-rise Residential *NOTE: Must be completed by a HERS Rater*	☐	☐
○	◉	NRCV-MCH-32 Local Mechanical Exhaust *NOTE: Must be completed by a HERS Rater*	☐	☐

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Mira Costa Building 900 Modernization	Report Page: Page 6 of 9
Project Address: 3333 Manchester Ave	Date Prepared: 2020-09-29

○	◉	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		☐	☐
○	◉	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance		☐	☐
○	◉	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance *NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX AC Systems are included in the scope, permit applicant should move this form to "Yes".*		☐	☐
○	◉	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance *NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".*		☐	☐
○	◉	NRCA-MCH-16-A Supply Air Temperature Reset Controls		☐	☐
◉	○	NRCA-MCH-17-A Condenser Water Temperature Reset Controls		☐	☐
○	◉	NRCA-MCH-18 Energy Management Control Systems		☐	☐
○	◉	NRCA-MCH-19 Occupancy Sensor Controls		☐	☐
○	◉	NRCA-MCH-20 Multi-Family Ventilation		☐	☐
○	◉	NRCA-MCH-21 Multi-Family Envelope Leakage		☐	☐

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Mira Costa Building 900 Modernization	Report Page: Page 5 of 9
Project Address: 3333 Manchester Ave	Date Prepared: 2020-09-29

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

YES	NO	Form/Title	Systems To Be Field Verified	Field Inspector Pass	Field Inspector Fail
○	◉	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. *Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.*		☐	☐
○	◉	NRCA-MCH-03-A Constant Volume Single Zone HVAC *NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".*		☐	☐
◉	○	NRCA-MCH-04-A Air Distribution Duct Leakage		☐	☐
○	◉	NRCA-MCH-05-A Air Economizer Controls		☐	☐
○	◉	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.		☐	☐
○	◉	NRCA-MCH-07-A Supply Fan Variable Flow Controls		☐	☐
○	◉	NRCA-MCH-08-A Valve Leakage Test		☐	☐
○	◉	NRCA-MCH-09-A Supply Water Temperature Reset Controls		☐	☐
○	◉	NRCA-MCH-10-A Hydronic System Variable Flow Controls		☐	☐
○	◉	NRCA-MCH-11-A Automatic Demand Shed Controls		☐	☐

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Mira Costa Building 900 Modernization	Report Page: Page 4 of 9
Project Address: 3333 Manchester Ave	Date Prepared: 2020-09-29

Table Continued

02	03		04	05	06	07	08	09	10	11
Name or Item Tag	Design Conditions		Rated Conditions		Maximum Skin Temp (°F)	Conductivity	M-Alkalinity	Calcium Hardness	Magnesium Hardness	Target Tower Cycles
	Design GPM	Min Flow GPM	GPM/HP							
							12	13	14	15
							Calculated pH @ Target Cycles	pH Saturation @ Target Cycles	Tower LSI Based on Calculated pH	Complies

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Systems To Be Field Verified	Field Inspector Pass	Field Inspector Fail
◉		NRCI-MCH-01-E - Must be submitted for all buildings.		☐	☐

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Mira Costa Building 900 Modernization	Report Page: Page 3 of 9
Project Address: 3333 Manchester Ave	Date Prepared: 2020-09-29

I. SYSTEM CONTROLS

This Section Does Not Apply

J. VENTILATION AND INDOOR AIR QUALITY

This Section Does Not Apply

K. TERMINAL BOX CONTROLS

This Section Does Not Apply

L. DISTRIBUTION (DUCTWORK AND PIPING)

Table Instructions: Complete the following tables to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct system(s):	WSHP-2, WSHP-3, (E) WSHP-1, (E) WSHP-7	Duct leakage testing triggered for these systems?	Yes

11	No	The scope of the project includes only duct systems serving healthcare facilities.
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.
14	Yes	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
		☐ Outdoors
		☐ In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
		☐ In an unconditioned crawlspace
		☑ In other unconditioned spaces
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17		Duct system shall be sealed in accordance with the California Mechanical Code.

M. COOLING TOWERS

Table Instructions: Complete the following Table for cooling towers with a rated capacity > 150 tons to demonstrate compliance with mandatory requirements in §110.2(e)2. This Table calculates the Maximum Cycles of Concentration using the Langelier Saturation Index (LSI) calculations per §110.2(e)2.

01	☒	Check the box if the project is showing calculations on the plans, or attaching the calculations instead of completing this Table.

Table Continued

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Mira Costa Building 900 Modernization	Report Page: Page 2 of 9
Project Address: 3333 Manchester Ave	Date Prepared: 2020-09-29

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

The permit applicant has indicated on Table M that cooling tower Maximum Cycles of Concentration calculations have been attached or included elsewhere on the plans.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

The two (2) water-source heat pumps on this project are not listed in the HVAC system summary because there is no option for listing water source heat pumps with <65,000 Btu/h capacity. CT-1 is <150 Tons so Table M does not apply to this project.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This Section Does Not Apply

Heat Rejection Equipment (Cooling Towers, Condensers, Waterside Economizers) Efficiency and Controls

01	02	03	04	05	06	07	08	09	10	11	12
Name or Item Tag	Equipment Type[1]	Qty	Rating Condition (°F)	Rated Performance	Minimum Required Performance per Table 110.2-G and §140.4(h)2	Performance Unit	Fan Speed Control §140.4(h)2	Tower Flow Turndown §140.4(h)3	Fan Control in Multiple Cell Equipment §140.4(h)5	Economizer Controls §140.4(e)	Condenser Water Temp eset Cntrols
CT-1	Propeller/ axial fan closed-circuit cooling tower	1		17.97	16.1	gpm/hp	Yes		NA: Not multiple cell		Yes

[1] *FOOTNOTES: Centrifugal fan open-circuit towers are not allowed for rated capacities > 900 gpm at 95°F condenser water return, 85°F condenser water supply and 75°F outdoor wet-bulb temperature. Exceptions may apply per §140.4(h)4.*

G. PUMPS

This Section Does Not Apply

H. FAN SYSTEMS & AIR ECONOMIZERS

This Section Does Not Apply

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.	
Project Name: Mira Costa Building 900 Modernization	Report Page: Page 1 of 9
Project Address: 3333 Manchester Ave	Date Prepared: 2020-09-29

A. GENERAL INFORMATION

01	Project Location (city)	Cardiff	04	Total Conditioned Floor Area	2,660
02	Climate Zone	7	05	Total Unconditioned Floor Area	755
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

☐ Office (B) ☐ Retail (M) ☐ Non-refrigerated Warehouse (S)
☐ Hotel/ Motel Guest Rooms (R-1) ☑ School (E) ☐ Healthcare Facility (I)
☐ High-Rise Residential (R-2/R-3) ☐ Relocatable Class Bldg (E) ☐ Other (Write In):

[1] *FOOTNOTES: Climate zone can be determined on the California Energy Commission's website at http://www.energy.ca.gov/maps/renewable/building_climate_zones.html*

B. PROJECT SCOPE

Table Instructions: Include any mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

My project consists of (check all that apply)

01 Air System(s)	02 Wet System Components	03 Dry System Components
☐ Heating Air System	☐ Water Economizer	☐ Air Economizer
☐ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ Hydronic System Piping	☐ Fan Systems
☐ Mechanical Controls (existing to remain, altered or new)	☑ Cooling Towers	☑ Ductwork (existing to remain, altered or new)
	☐ Chillers	☐ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(e)2	**Compliance Results**
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND		AND		AND		AND		AND	Yes	AND	Yes	**COMPLIES**
														Mandatory Measures Compliance (See Table Q for Details)	**COMPLIES**

DSA FILE NO. 37-C2 A# 04-119030

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ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION
3333 Manchester Ave, Cardiff, CA 92007

100% CONSTRUCTION DOCUMENS

MiraCosta College

CONSULTANT
P2S ENG
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ENGINEER
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MECHANICAL
STATE OF CALIFORNIA
DIGNED: 09/30/2020

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Mark A. Eagle
No. C-28195
REN. 5-31-2021
STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT
PROJECT NUMBER
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DATE: 2020/11/10
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TITLE 24 COMPLIANCE FORMS

M701

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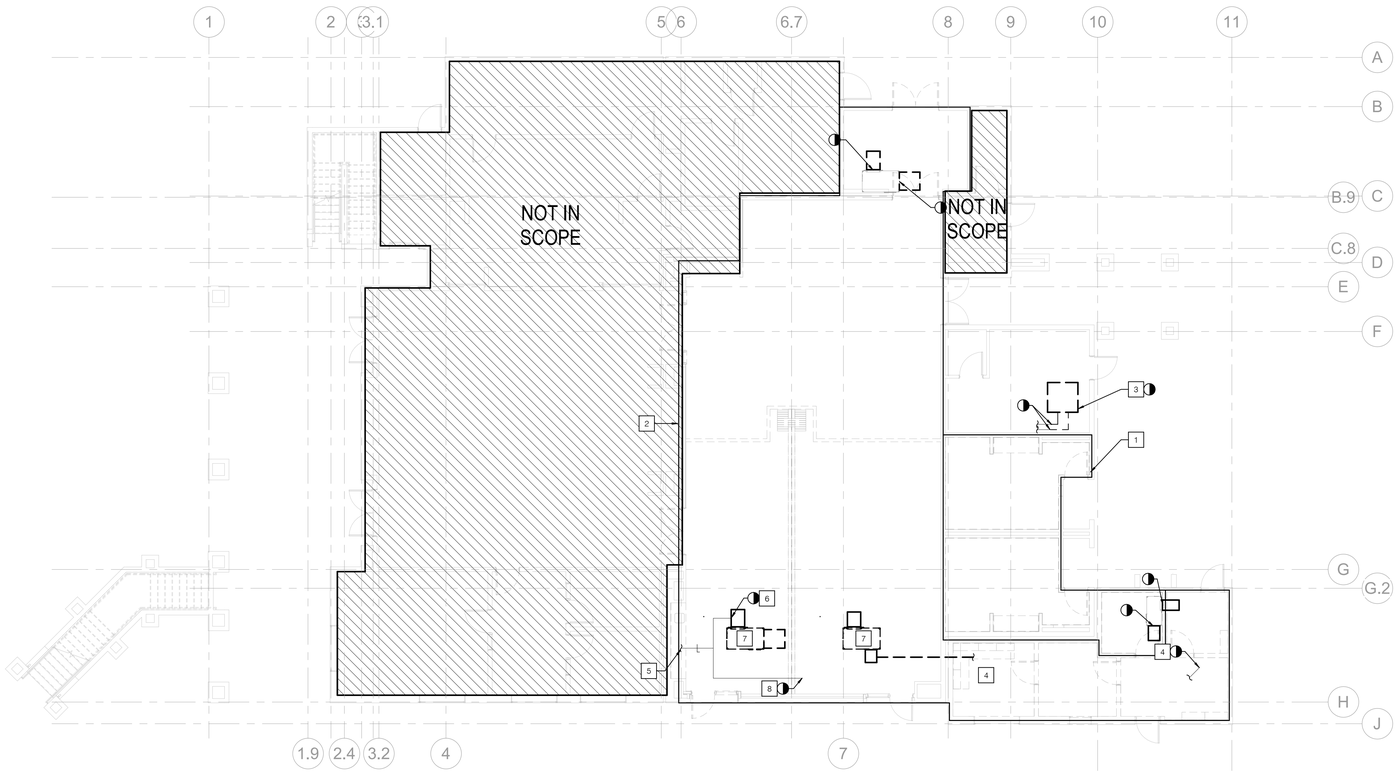
NOTES

1. DEMOLISH ALL DIFFUSERS, REGISTERS AND GRILLES IN THE AREA ENCLOSED.
2. DEMOLISH ALL MECHANICAL DUCTWORK (TO PODS SHOWN), GRILLES, REGISTERS, DIFFUSERS IN THE AREA ENCLOSED.
3. DEMOLISH FLUID COOLER AND ASSOCIATED DUCT AND PIPE CONNECTIONS. DEMOLISH CWS&R AND MAKE UP WATER PIPING UP TO SHUT-OFF VALVES.
4. OSA DUCT UP THROUGH ROOF TO BE DEMOLISHED.
5. OSA DUCT UP THROUGH ROOF TO REMAIN.
6. POD FOR RA DUCT FROM WATER SOURCE HEAT PUMP TO BE DEMOLISHED.
7. WATER SOURCE HEAT PUMP TO BE DEMOLISHED.
8. POD FOR RA DUCT FROM RA GRILLE TO BE DEMOLISHED.

GENERAL NOTES

1. HYDRONIC PIPING FROM (E) WSHP-2 TO BE DISCONNECTED AND CAPPED DURING DEMOLITION.



1 FIRST FLOOR HVAC PLAN

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

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

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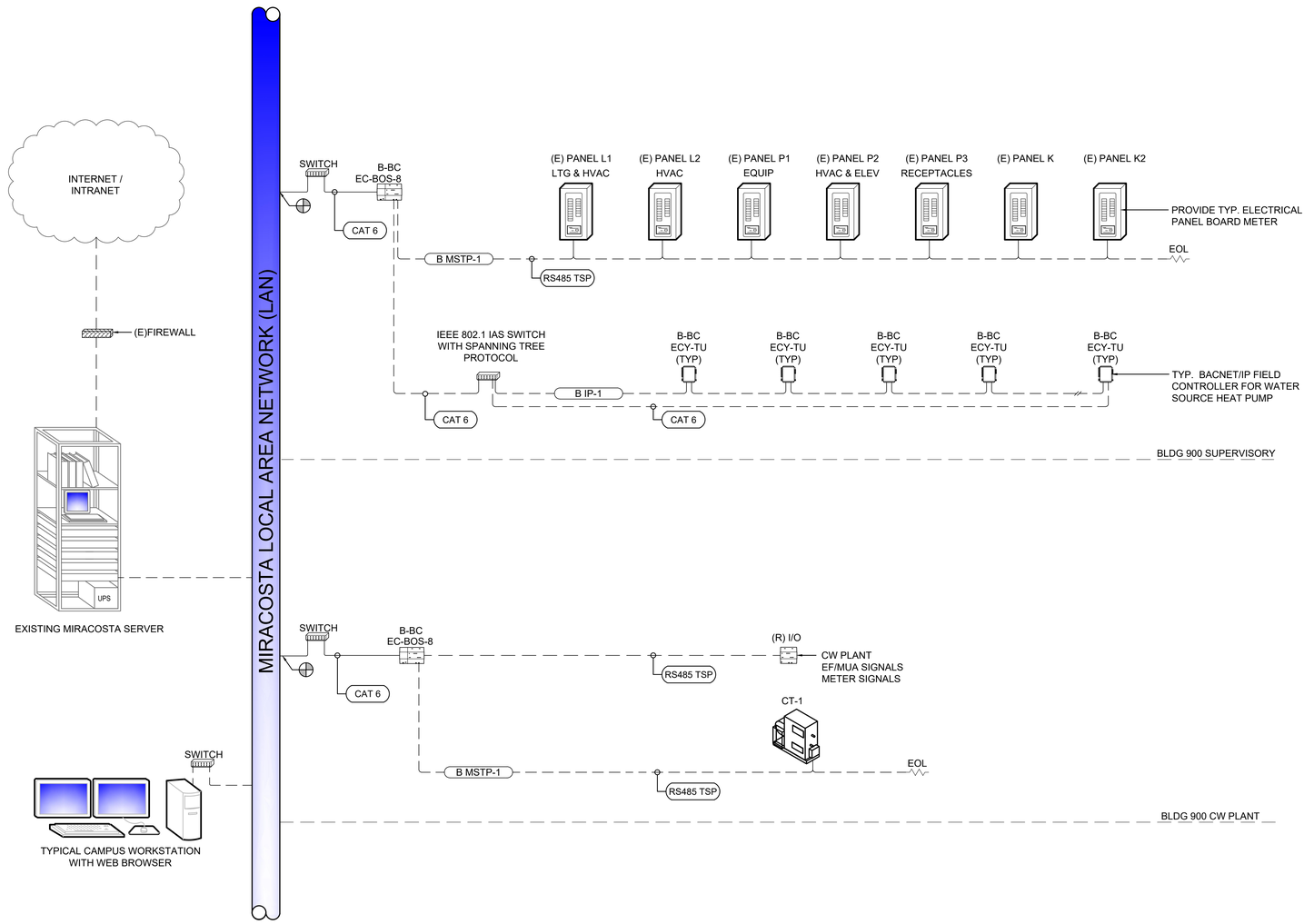
DEMOLITION - FLOOR PLANS

MD201



1 INTEGRATED AUTOMATION SYSTEM ARCHITECTURE
NOT TO SCALE

CONTROLS LEGEND

SYMBOL	DESCRIPTION
	POINT OF CONNECTION
AI	DDC ANALOG INPUT POINT W/ ADJUSTABLE PID GAIN CONTROL
AO	DDC ANALOG OUTPUT POINT W/ ADJUSTABLE PID GAIN CONTROL
DI	DDC DIGITAL INPUT POINT W/ INDICATING LIGHT ON DDC PANEL
DO	DDC DIGITAL OUTPUT POINT W/ MANUAL OVERIDE AND INDICATING LIGHT ON DDC PANEL
T	TEMPERATURE SENSOR W/ PIPING WELL
F	FLOW METER
FS	FLOW SWITCH - PROVIDE DIRECT HARDWARE CONNECTION TO BOILER, CHILLER OR ASSOCIATED EQUIPMENT
P	PRESSURE SENSOR
DPS	DIFFERENTIAL PRESSURE SENSOR
CSR	CURRENT SENSING RELAY
S D	DUCT SMOKE DETECTOR - COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER SUPPLY
	DAMPER ACTUATOR
CFM	AIR FLOW SENSOR - PIEZOMETER RING
HPS	HIGH LIMIT STATIC PRESSURE SWITCH WITH MANUAL RESET HARD WIRE DIRECTLY TO VFD SAFETY CIRCUIT AND PROVIDE DI POINT
LPS	LOW LIMIT STATIC PRESSURE SWITCH WITH MANUAL RESET HARD WIRE DIRECTLY TO VFD SAFETY CIRCUIT AND PROVIDE DI POINT
SP	STATIC PRESSURE SENSOR
AF	AIR FLOW SENSOR MEASUREMENT STATION
	TWO-WAY CONTROL VALVE - VERIFY & PROVIDE A VALVE SCHEDULE
	THREE-WAY CONTROL VALVE - VERIFY & PROVIDE A VALVE SCHEDULE
VPS	VELOCITY PRESSURE SENSOR
BACNET LAN	PROVIDE DIRECT CONTROL CONNECTION OR BACNET TO THE REFERENCED CONTROL SYSTEM OR EQUIPMENT. SEE DETAILS. ADDITIONAL HARDWIRE POINTS ARE REQUIRED.
GATEWAY LAN	PROVIDE DIRECT CONTROL CONNECTION OR GATEWAY TO THE REFERENCED CONTROL SYSTEM OR EQUIPMENT. SEE DETAILS. ADDITIONAL HARDWIRE POINTS ARE REQUIRED.
B	BACNET
B-AAC	BACNET ADVANCED APPLICATION CONTROLLER
B-ASC	BACNET APPLICATION SPECIFIC CONTROLLER
B-BC	BACNET BUILDING CONTROLLER
DDC	DIRECT DIGITAL CONTROL
DP	DIFFERENTIAL PRESSURE
(E)	EXISTING
Ⓔ	COORDINATE WITH ELECTRICAL
I/O	INPUT/OUTPUT
LAN	LOCAL AREA NETWORK
PID	PROPORTIONAL, INTEGRAL, DERIVATIVE
(R)	REMOTE
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
TSP	TWISTED SHIELDED PAIR

GENERAL NOTES

1. NO MORE THAN 25 IP ENABLED CONTROLLERS MAY BE PLACED ON ANY ONE BACNET/IP LOOP.
2. BACNET/IP CABLE LENGTH SHALL NOT EXCEED 150 FT BETWEEN ANY TWO CONTROLLERS.
3. NO MORE THAN 32 BACNET MSTP CONTROLLERS MAY BE PLACED ON ANY ONE B-MSTP TRUNK.
4. UPGRADE EXISTING NIAGARA4 SUPERVISOR TO THE LATEST VERSION.
5. PREQUALIFICATION NOTE (PROVIDED BY THE MIRACOSTA CCD CAPITAL IMPROVEMENT PROGRAM TEAM): THE DISTRICT'S BOARD OF TRUSTEES APPROVED THE ESTABLISHMENT OF A POOL OF PRE-QUALIFIED CONTRACTORS TO PROVIDE LABOR, WORK, SERVICES, MATERIALS, EQUIPMENT AND THE LIKE FOR INTEGRATED AUTOMATION SYSTEM PROJECTS DISTRICT-WIDE. THESE PRE-QUALIFIED CONTRACTORS ARE LISTED BELOW:
   1. PERFORMANCE AUTOMATION SOLUTIONS
      10633 ROSELLE STREET SUITE G
      SAN DIEGO, CA 92121, 858-391-6407
   2. CLIMATEC
      13715 STOWE DRIVE
      POWAY, CA 92064, 858-391-7001
   3. EMCOR SERVICES MESA ENERGY SYSTEMS
      900 VERNON WAY
      EL CAJON, CA 92020, 619-980-2258

DSA FILE NO. 37-C2 A# 04-119030

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3333 Manchester Ave, Cardiff, CA 92007
CONSTRUCTION DOCUMENTS

MiraCosta College

CONSULTANT

ENGINEER
Shadpour Consulting Engineers, Inc.
20149

ARCHITECT

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MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
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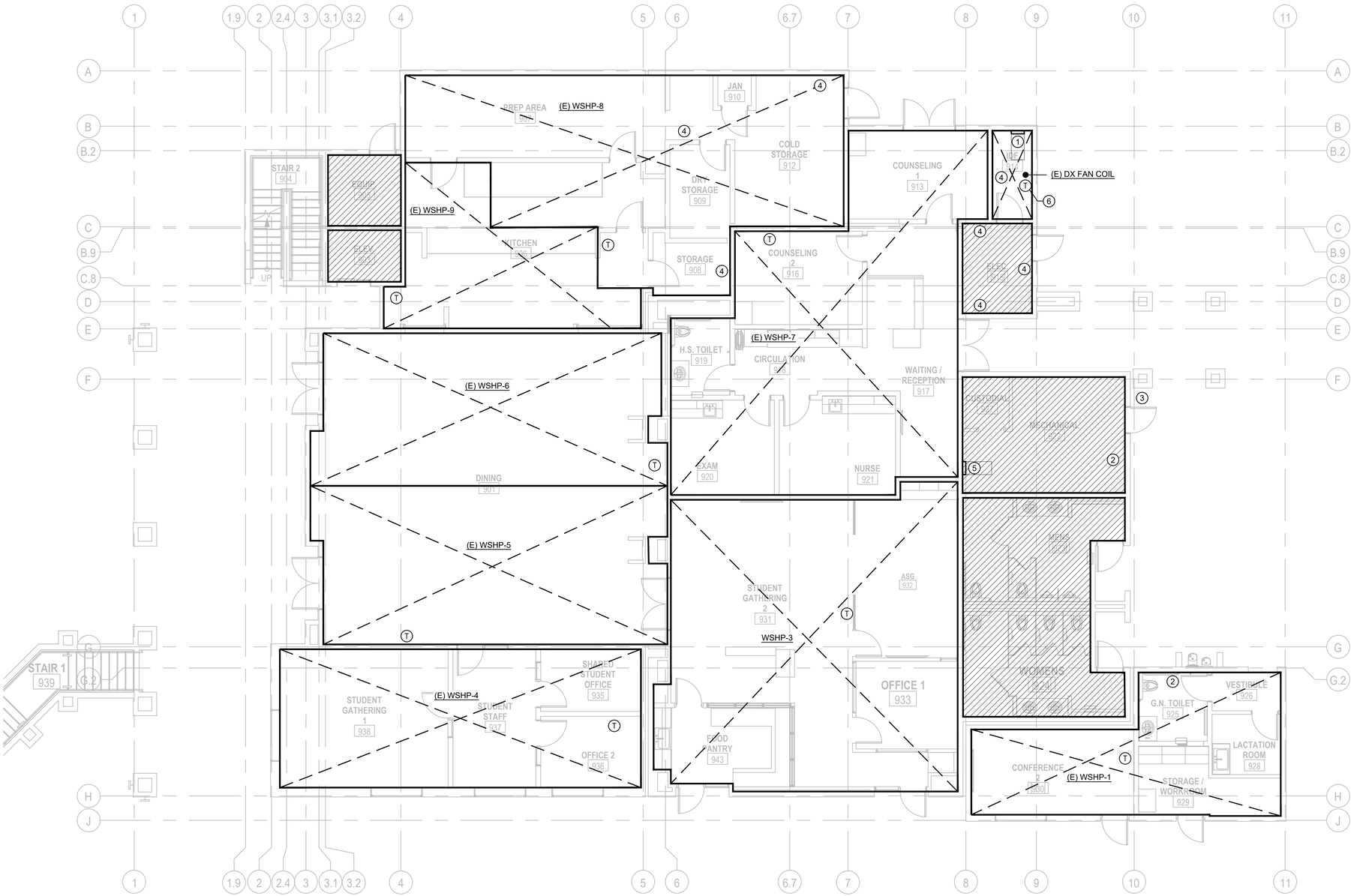
REVISIONS

No.	Description	Date
	100% DESIGN DEVELOPMENT	07/30/2020
	50% CONSTRUCTION DOCUMENTS	09/03/2020
	100% CONSTRUCTION DOCUMENTS	09/30/2020
	DSA SUBMITTAL	11/10/2020

CONSTRUCTION DOCUMENTS

INTEGRATED AUTOMATION LEGEND AND SYSTEM ARCHITECTURE

IA001



GENERAL NOTES

1. COORDINATE EXACT LOCATION OF ROOM TEMPERATURE SENSORS WITH OWNER, ARCHITECT, AND FURNITURE LOCATION.
2. COORDINATE WITH THE DISTRICT'S FURNITURE VENDOR FOR RTS AND OCCUPANCY SENSOR LOCATIONS. SUBMIT A PLAN SHOWING PROPOSED FINAL RTS/OCCUPANCY LOCATIONS ON FURNITURE DRAWINGS FOR REVIEW.
3. THE ZONING SHOWN IS BASED ON AVAILABLE 2006 AS-BUILT DOCUMENTATION.
4. REPLACE ALL WATER SOURCE HEAT PUMP CONTROLLERS AND IAS COMMUNICATION WIRING. LOW VOLTAGE POWER MAY BE REQUIRED.

LEGEND

- CONDITIONED SPACE ZONE
- NON CONDITIONED SPACE
- (T) ROOM TEMPERATURE SENSOR

KEY NOTES

1. CONTROL PANEL LOCATION FOR THE (2) JACE SUPERVISORY CONTROLLERS SHOWN ON IA001. PROVIDE IN A SINGLE ENCLOSURE.
2. PROPOSED DOMESTIC WATER METER LOCATION. REFER TO PLUMBING DRAWINGS FOR PIPE ROUTING.
3. PROPOSED NATURAL GAS METER LOCATION. REFER TO PLUMBING DRAWINGS FOR PIPE ROUTING.
4. ELECTRICAL PANEL LOCATION. PROVIDE ELECTRICAL SUBMETER AND INTEGRATE TO IAS.
5. PROVIDE REMOTE I/O MODULES IN EXISTING ENCLOSURE. CONNECT TO (E) POWER SOURCE.
6. PROVIDE A ROOM TEMPERATURE SENSOR IN IDF 914 FOR REMOTE TEMPERATURE MONITORING AND ALARMING ONLY.

1 HVAC CONTROLS ZONING FLOOR PLAN
SCALE: 3/16" = 1'-0"

0' 2' 4' 8'

N

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	DSA SUBMITTAL	11/10/2020

CONSTRUCTION DOCUMENTS

HVAC CONTROLS ZONING FLOOR PLAN

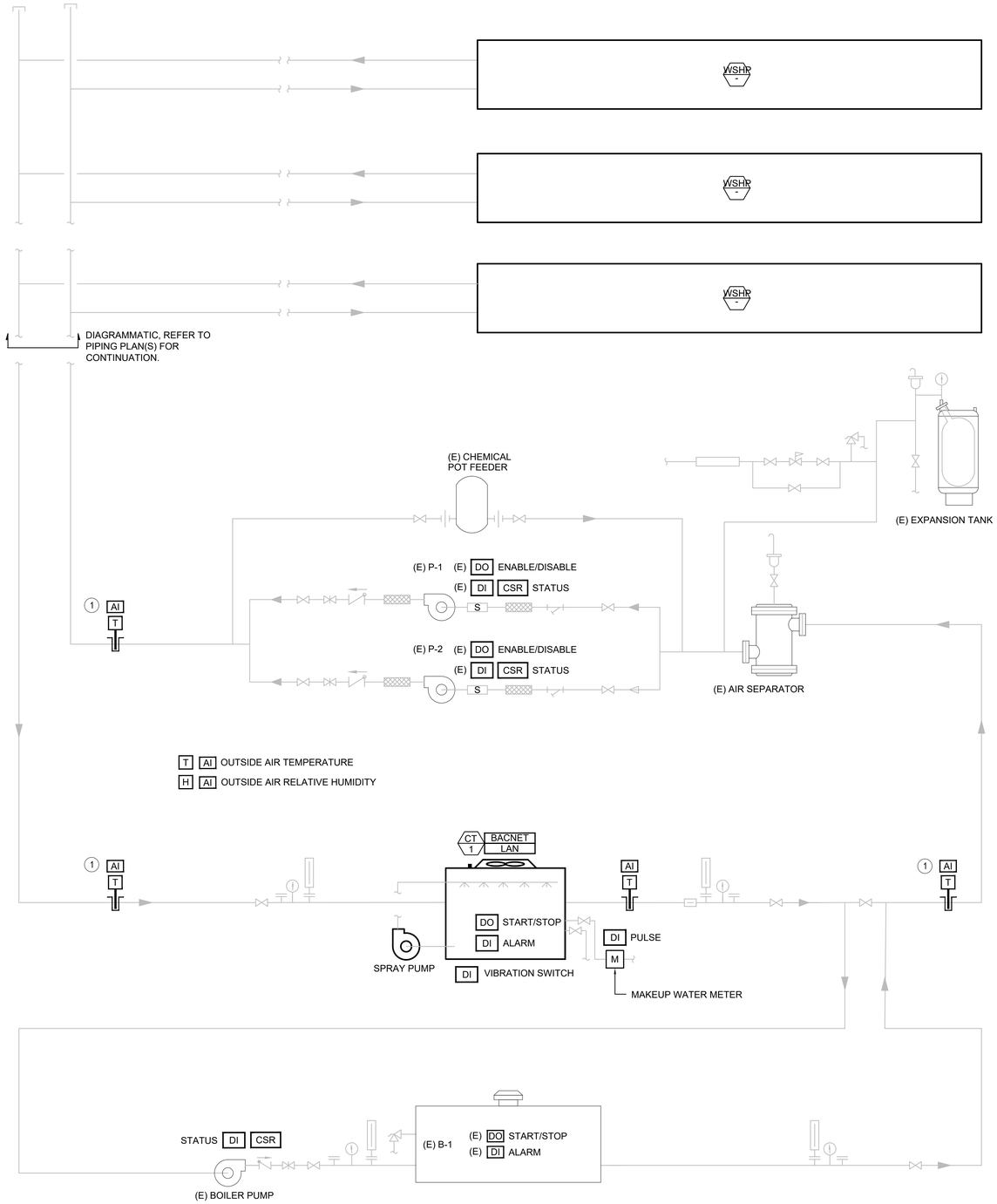
IA101

GENERAL NOTES

1. REFER TO MECHANICAL DRAWINGS FOR EXACT CONFIGURATION OF PIPING COMPONENTS.
2. REWIRE (E) CONTROLS COMPONENTS TO THE REPLACEMENT I/O MODULE.

KEY NOTES

(1) REPLACE EXISTING SENSORS.



INTEGRATE THE FOLLOWING POINTS

(E) DI MUA STATUS

1 CONDENSER WATER PLANT CONTROL SYSTEM DIAGRAM
NOT TO SCALE

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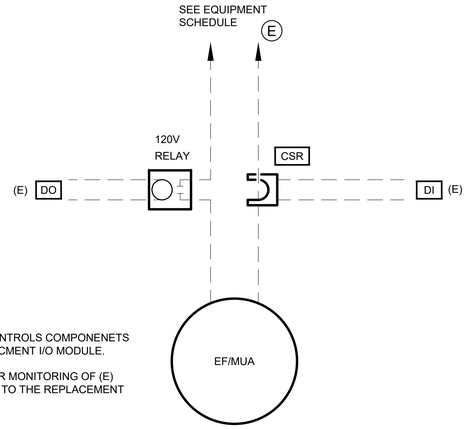
	DSA SUBMITTAL	11/10/2020

CONSTRUCTION DOCUMENTS

CONDENSER WATER SYSTEM CONTROLS DIAGRAM

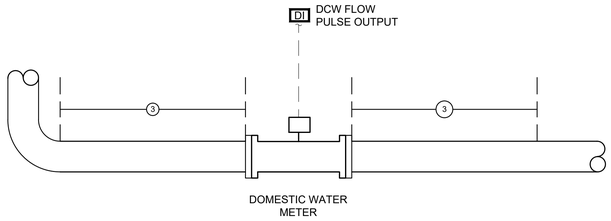
IA201



NOTES:

1. REWIRE (E) CONTROLS COMPONENETS TO THE REPLACMENT I/O MODULE.
2. REWIRE (E) CSR MONITORING OF (E) MAU-1 STATUS TO THE REPLACEMENT I/O MODULE.

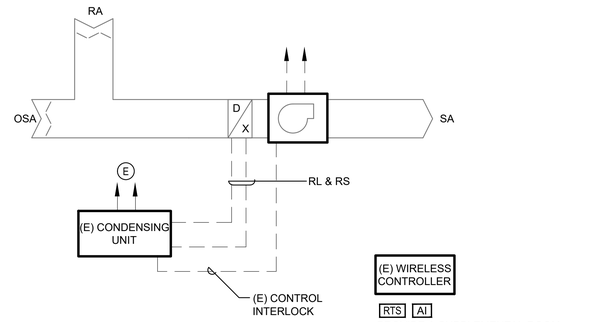
7 (E) SINGLE PHASE EXHAUST FAN EF3, EF5 THRU EF9, & MUA-1 CONTROL
SCALE: NONE



NOTES:

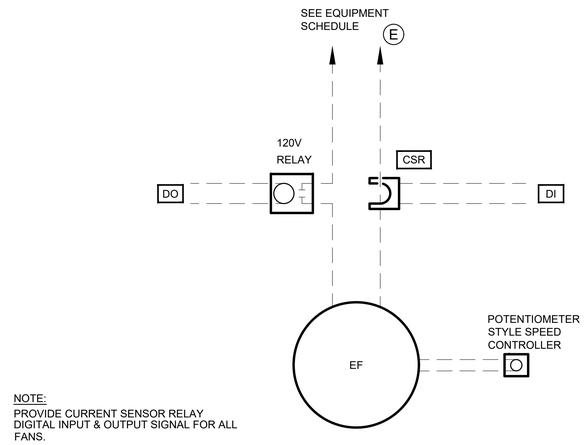
1. REFER TO PLUMBING DRAWINGS FOR METER TYPE, LOCATION, AND POINTS OF CONNECTION.
2. EXPOSED WIRING AND CABLE SHALL BE IN RIGID CONDUIT.
3. PROVIDE MANUFACTURER RECOMMENDED STRAIGHT LENGTHS UPSTREAM AND DOWNSTREAM OF METER.
4. PROVIDE POWER TO THE FLOW METER TRANSDUCER .

4 DOMESTIC WATER METER DETAIL
SCALE: NONE



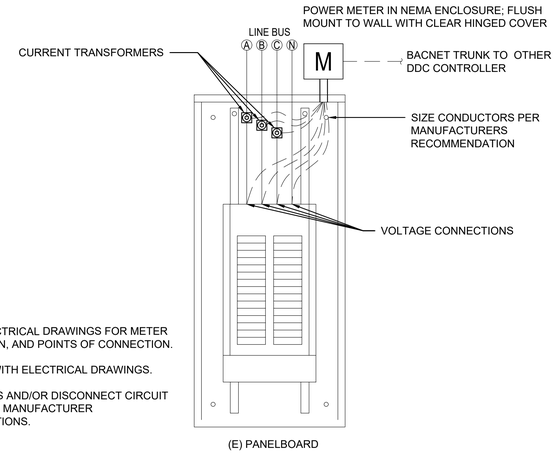
PROVIDE A SUPPLEMENTAL ROOM TEMPERATURE SENSOR FOR REMOTE TEMPERATURE MONITORING AND ALARMING.

1 SPLIT SYSTEM HEAT PUMP DETAIL
SCALE: NONE



NOTE:
PROVIDE CURRENT SENSOR RELAY DIGITAL INPUT & OUTPUT SIGNAL FOR ALL FANS.

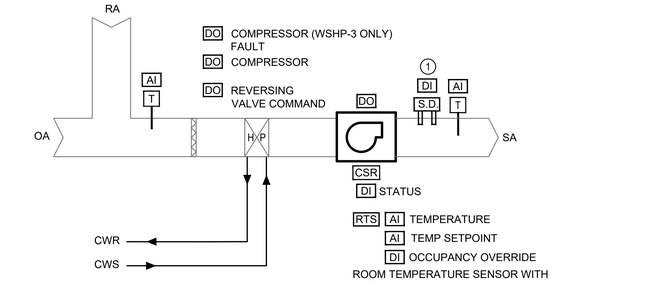
8 SINGLE PHASE EXHAUST FAN EF10 CONTROL
SCALE: NONE



NOTES:

1. REFER TO ELECTRICAL DRAWINGS FOR METER TYPE, LOCATION, AND POINTS OF CONNECTION.
2. COORDINATE WITH ELECTRICAL DRAWINGS.
3. PROVIDE FUSES AND/OR DISCONNECT CIRCUIT BREAKERS PER MANUFACTURER RECOMMENDATIONS.

5 ELECTRICAL POWER METER DETAIL
SCALE: NONE

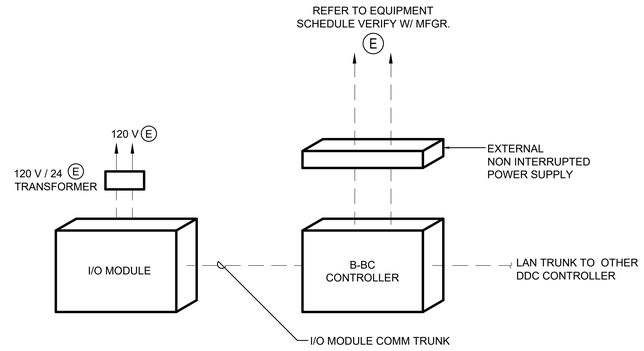


ROOM TEMPERATURE SENSOR WITH SETPOINT ADJUSTMENT.

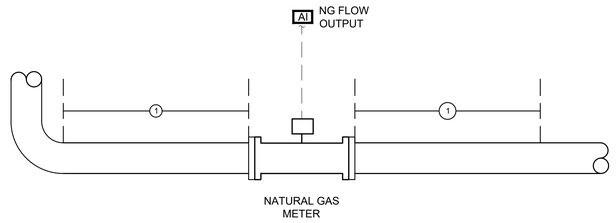
NOTES:
1. PROVIDE APPLICATION SPECIFIC CONTROLLER FOR EACH WATER SOURCE WATER SOURCE HEAT PUMP UNIT.
2. PROVIDE 24V POWER TO EACH APPLICATION SPECIFIC CONTROLLER FROM (E) POWER SOURCE.

KEYED NOTES:
1. PROVIDE SMOKE DETECTOR FOR FAN SHUTDOWN FOR (E) WSHP 5,6, 8, 9, & MUA1. COORDINATE WITH ELECTRICAL & FIRE PROTECTION.

2 WATER SOURCE HEAT PUMP DETAIL
SCALE: NONE



6 BACNET BUILDING CONTROLLER (B-BC) CONTROLLER DETAIL
SCALE: NONE



NOTES:

1. PROVIDE MANUFACTURER RECOMMENDED STRAIGHT LENGTHS UPSTREAM AND DOWNSTREAM OF METER. REFER TO PLUMBING DRAWINGS FOR METER TYPE, LOCATION AND POINTS OF CONNECTION.
2. EXPOSED COMMUNICATION CABLE AND WIRING SHALL BE IN RIGID CONDUIT.

3 NATURAL GAS METER DETAIL
SCALE: NONE

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ARCHITECTURE

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	100% CONSTRUCTION DOCUMENTS	09/30/2020
	DSA SUBMITTAL	11/10/2020

CONSTRUCTION DOCUMENTS

INTEGRATED AUTOMATION SYSTEM DETAILS

IA202

LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	MECHANICAL EQUIPMENT CALLOUT, SEE MECHANICAL PLANS FOR EXACT LOCATION AND REQUIREMENTS
	SECTION CALLOUT
	FEEDER CALLOUT
	EXISTING FEEDER CALLCOUT
	NEW LINEWORK
	EXISTING LINEWORK
	DEMOLISHED LINEWORK
	CONDUIT CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT EXPOSED
	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR
	CONDUIT EMERGENCY
W W	MULTI-CHANNEL RACEWAY
	CONDUIT TURNED UP
	CONDUIT CAPPED
A-1	BRANCH CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS AS INDICATED
	3/4" CONDUIT, TICK MARKS INDICATE QUANTITY OF #12 AWG WIRES (UNLESS NOTED OTHERWISE, NO MARKS INDICATES 2#12 & 1#12 GND WIRES) - SMALL MARK DENOTES HOT WIRE - LARGE MARK DENOTES NEUTRAL WIRE - DIAGONAL DENOTES GROUND WIRE
G	GENERATOR
	SWITCH
	CIRCUIT BREAKER
	2-WAY SWITCH, TRANSFER SWITCH
	FUSE
	TRANSFORMER
	GROUND CONNECTION
	MOTOR - SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER
M	METER
ECM	ELECTRONIC CIRCUIT MONITOR
	480V DRAWOUT BREAKER
VFD	VARIABLE FREQUENCY DRIVE
	PANEL
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
	COMBINATION STARTER/DISCONNECT SWITCH
M	SWITCH MOTOR RATED
	SPLICE
	TERMINATION
	EXISTING TERMINATION
52	MEDIUM VOLTAGE - AIR CIRCUIT BREAKER DRAWOUT BREAKER
	MEDIUM VOLTAGE FUSED DISCONNECT SWITCH
	MEDIUM VOLTAGE MODULAR SPLICE
	MEDIUM VOLTAGE EXISTING MODULAR SPLICE
X y	2X4 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	2X4 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	2X2 LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	2X2 EMERGENCY LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	EMERGENCY LINEAR LIGHT FIXTURE, DIMENSIONS PER PLANS - LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	LINEAR PENDANT LIGHT FIXTURE, DIMENSIONS PER PLANS - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	TRACK LIGHTING - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	UNDERCABINET / COVE FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	LED STRIP LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.

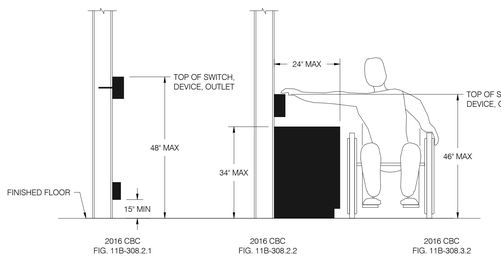
SYMBOL	DESCRIPTION
X y	DOWNLIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	EMERGENCY DOWNLIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
X y	PENDANT LUMINAIRE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	WALLWASH LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
X y	WALL MOUNTED LIGHT FIXTURE - UPPER CASE LETTER INDICATES LIGHT FIXTURE CALLOUT. LOWER CASE LETTER INDICATES LIGHTING CONTROL ZONE.
	EMERGENCY WALL MOUNTED LIGHT FIXTURE FED FROM GENERATOR/ INVERTER/ BATTERY BACKUP
	BOLLARD LUMINAIRE
	POST TOP LUMINAIRE
	POLE MOUNTED LUMINAIRE, SINGLE HEAD
	POLE MOUNTED LUMINAIRE, DOUBLE HEAD
	POLE MOUNTED LUMINAIRE, TRIPLE HEAD
	POLE MOUNTED LUMINAIRE, QUAD HEAD
	IN GRADE LUMINAIRE
	PATHWAY LUMINAIRE
	LANDSCAPE FIXTURE
	EXIT LIGHT FIXTURE WITH DIRECTIONAL ARROWS AS INDICATED. SHADED SIDE DENOTES NUMBER OF FACES
J	JUNCTION BOX
PC	PHOTOCELL FOR EXTERIOR APPLICATIONS
DS	DAYLIGHT SENSOR - CEILING MOUNTED
R	RELAY
ER	EMERGENCY RELAY UL 924 COMPLIANT
M	MOTION SENSOR - CEILING MOUNTED
M	MOTION SENSOR - CORNER OR WALL MOUNTED
M	MOTION SENSOR WITH AISLE/CORRIDOR LENS - CEILING MOUNTED
MS	COMBINATION MOTION AND DAYLIGHT SENSOR
N	LIGHTING CONTROL NETWORK DEVICE
TM	DIGITAL TIMER SWITCH
MS	MOTION SENSOR SWITCH
LV	LOW VOLTAGE SWITCH
DM	DIMMER MASTER SWITCH
D	DIGITAL DIMMING SWITCH
TS	GRAPHICAL TOUCH SCREEN - LIGHTING CONTROL STATION
	THERMOSTAT WITH A 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE
	MODULAR FURNITURE - BASE POWER WHIP FEED CONNECTION
	MODULAR FURNITURE - FLOOR BOX FEED CONNECTION
	MODULAR FURNITURE - POWER POLE FEED CONNECTION
	LIGHTING CONTROL PANEL - SURFACE MOUNTED
	PANELBOARD - RECESSED MOUNTED
	PANELBOARD - SURFACE MOUNTED
	DISTRIBUTION PANEL/ BOARD
S	SINGLE POLE SWITCH, DEVICE SHALL BE MOUNTED +48" MAX AND +36" MIN FROM THE CENTER OF DEVICE.
S3	SWITCH 3-WAY (48" AFF MAXIMUM)
ST	TIMER SWITCH (48" AFF MAXIMUM)
SDB	DUAL SWITCH (48" AFF MAXIMUM)
	PUSHBUTTON SWITCH
	RECESSED ON WALL SURFACE FLOOR OR CEILING G=GFCI, WP=WEATHER PROOF G=GFCI, WP=WEATHER PROOF C=CEILING
	20A, 125V DUPLEX RECEPTACLE MOUNTED +15" AFF, UNLESS OTHERWISE NOTED
	20A, 125V QUAD RECEPTACLE MOUNTED +15" AFF, UNLESS OTHERWISE NOTED
	20A, 125V DUPLEX RECEPTACLE RECEPTACLE ON DEDICATED CIRCUIT
	20A, 125V CONTROLLED DUPLEX RECEPTACLE
	20A, 125V QUAD RECEPTACLE (HALF) CONTROLLED RECEPTACLE
	SPECIAL RECEPTACLE REFER TO DRAWINGS FOR NEMA CONFIGURATION
	JUNCTION BOX
	RECESSED POKE-THROUGH RECESSED POKE-THROUGH - POWER/TEL/DATA RECESSED FLOOR BOX - POWER/TEL/DATA
	20A, 125V DUPLEX RECEPTACLE FIRE RATED TYPE
	20A, 125V QUAD RECEPTACLE FIRE RATED TYPE

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
&	AND
1/C	SINGLE CONDUCTOR
@	AT
A OR AMP	AMPERES
A.C.	ASPHALT CONCRETE
ABV	ABOVE
AF	AMPERE FUSE RATING
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISH GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECT; ARCHITECTURAL
AS	AMPERE SWITCH RATING
ASCC	AVAILABLE SHORT CIRCUIT CURRENT
ATC	AIR TERMINAL CHAMBER
ATO	AUTOMATIC THROW-OVER (SWITCH)
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
B.S.	BARE STRANDED
BAT	BATTERY
BEL	BELOW
BKBD	BACKBOARD
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
C.O.	CONDUIT ONLY WITH PULL WIRE
CB	CIRCUIT BREAKER
CC	CONSTANT CURRENT
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CP	COMMUNICATION PROCESSOR
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CSFD	COMBINATION SMOKE FIRE DAMPER
CT	CURRENT TRANSFORMER
CU	COPPER
CW	COLD WATER
DIAG	DIAGRAM
DIS	DISCONNECT
DIST.	DISTANCE
DL	DAMP LOCATION LISTING
DM	DIGITAL METER
DMM	DIGITAL METER MODULE
DP	DISTRIBUTION PANEL
DWG	DRAWING
DWP	DEPARTMENT OF WATER & POWER
EA	EACH
ECM	ELECTRIC CIRCUIT MONITOR
ELEC.	ELECTRICAL
EM	EMERGENCY
EMH	ELECTRICAL MANHOLE
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EPR	ETHYLENE PROPYLENE RUBBER
EQUIP	EQUIPMENT
ERR	EXISTING TO BE RELOCATED AND RECONNECTED
EXIST/(E)	EXISTING
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FFE	FINISHED FLOOR ELEVATION
FIN.	FINISH
FIP.	FIELD INTERFACE PANEL
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FMC	FLEXIBLE METAL CONDUIT
FO	FIBER OBTIC
FT	FEET
FTG	FOOTING
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GG	GREEN GROUND
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HTR	HEATER
HV	HIGH VOLTAGE
HZ	HERTZ
ICON	INTEGRATED COMMUNICATIONS OPTICAL NETWORK
IE	INVERT ELEVATION
IED	INTELLEGENT ELECTRONIC DEVICE
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCADESCENT
ISC	SHORT CIRCUIT CURRENT
J, JB, J-BOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LF	LINEAR FEET
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LGST	LARGEST
LIS	LOAD INTERRUPTER SWITCH
LOC.	LOCATION
LOTO	LOCK-OUT & TAG-OUT
LSI	LONG TERM, SHORT TERM, INSTANTANEOUS
LTG	LIGHTING
LV	LOW VOLTAGE
M	METER
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MFGR, MFR	MANUFACTURER
MH	MANHOLE
MI.	MECHANICAL INTERLOCK
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MRCT	MULTI-RATIO CURRENT TRANSFORMER
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MTTB	MAIN TELEPHONE TERMINAL BOARD
MV	MEDIUM VOLTAGE
N	NORTH
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT- 24HRS ON
NO.	NUMBER
OC	ON CENTER
OCPD	OVERCURRENT PROTECTIVE DEVICE
OD	OUTSIDE DIAMETER
OE	OVERHEAD ELECTRICAL
OFC	OIL FUSED CUTOUT
OH	OVER HEAD
OL	OIL LEVER SWITCH
P	POLE
PAC	PROGRAMMABLE AUTOMATION CONTROLLER
PB	PULL BOX
PC	PHOTOCELL
PCB	POLYCHLORINATED BIPHENYL
PDS	PRESSURE DIFFERENTIAL SWITCH
PF	POWER FACTOR
PH OR Ø	PHASE
PILC	PAPER INSULATED, LEAD COVER
PIV	POST INDICATING VALVE
PL	PLATE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
POC	POINT OF CONNECTION
PREF.	PREFERRED
PRI.	PRIMARY
PVC	POLY-VINYL CHLORIDE
PWR	POWER
REC/RECEPT	RECEPTACLE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMC	RIGID METAL CONDUIT
RPBP	REDUCED PRESSURE BACK FLOW PREVENTER
RTAC	REAL TIME
SCCR	SHORT CIRCUIT CURRENT RATING
SCE	SOUTHERN CALIFORNIA EDISON
SF	SQUARE FEET
SHT	SHEET
SIG.	SIGNAL
SP	SPARE
SPECS	SPECIFICATIONS
ST	STREET
STD	STANDARD
STP	SHIELDED TWISTED PAIR
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SWST	SWITCHING STATION
T.O.D.	TOP OF DUCTBANK
T.O.M.	TOP OF MANHOLE
TB	TERMINAL BLOCK
TEL./TELE	TELEPHONE
TMH	TELEPHONE MANHOLE
TPS	TWISTED SHIELDED PAIR
TRANSF, XFMR	TRANSFORMER
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPERES
VB	VIBRATION SWITCH
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
Z	IMPEDANCE

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS AND OTHER STANDARD INDUSTRY CONVENTIONS.

MOUNTING HEIGHT OVER OBSTRUCTION



GENERAL NOTES

1. COMPLY WITH 2019 TITLE 24, CCR, PARTS 1-6 AND 9.
2. TITLE 24, CCR, PARTS 1-5 MUST BE KEPT ON SITE DURING CONSTRUCTION.
3. ALL ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA. (SECTION 4-338(c), PART 1).
4. ALL SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CHANGE ORDER OF ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION. (IR A-6)(SECTION 4-338(c), PART 1) SUBSTITUTION SHALL BE FOR ANY MATERIAL, SYSTEM OR PRODUCT THAT WOULD OTHERWISE BE REGULATED BY DSA.
5. ALL CHANGE ORDERS AND FIELD CHANGE DOCUMENTS (PRELIMINARY CHANGE ORDERS)(SECTION 4-338(c)(d), PART 1) MUST BE SIGNED BY ALL THE FOLLOWING:
   A. A/E OF RECORD.
   B. OWNER (CHANGE ORDERS ONLY).
   C. STRUCTURAL ENGINEER (WHEN APPLICABLE).
   D. DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE).

   AND SHALL BE SUBMITTED TO AND APPROVED BY DSA.
6. A PROJECT INSPECTOR AND TESTING LAB SHALL BE PROVIDED AND APPROVED BY ALL OF THE FOLLOWING:
   A. A/E OF RECORD.
   B. STRUCTURAL ENGINEER.
   C. DSA.
7. ANY ALTERATIONS, REHABILITATION, OR RECONSTRUCTION AS STATED IN TITLE 24, PART 1 SECTION 4-317(c) OR SIMILAR MEANING: 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, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODES OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.
8. MEP COMPONENT ANCHORAGE NOTE:

   ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

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

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

   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING 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.

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

   ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.
   THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AN BRACE LOADS.

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

   MP ☐ MD ☐ PPD ☐ E ■ -OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
10. FLEXIBLE CONDUIT SHALL NOT BE UTILIZED FOR LENGTHS LONGER THAN SIX FEET. USES OTHER THAN FOR LIGHT FIXTURE JUMPERS OR MOTOR CONNECTIONS SHALL NOT BE PERMITTED FOR FLEXIBLE CONDUIT.
11. CONTROL WIRING SHALL NOT BE INSTALLED IN FREE AIR IN MECHANICAL OR UTILITY ROOMS.
12. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS.

SHEET INDEX

SHEET	DESCRIPTION
E001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
E002	SCHEDULES
E003	PANEL SCHEDULES
E201	LIGHTING PLANS
E211	POWER PLANS
E501	SINGLE LINE DIAGRAM
E601	DETAILS
E602	DETAILS
E603	DETAILS
ED201	DEMOLITION - LIGHTING PLANS
ED211	DEMOLITION - POWER PLANS

DSA FILE NO. 37-C2 A# 04-119030

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

3333 Manchester Ave, Cardiff, CA 92007

100% CONSTRUCTION DOCUMENS

MIRACOSTA COLLEGE

CONSULTANT

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REGISTERED PROFESSIONAL ENGINEER — MARK A. EACRET — No. E20825 — ELECTRICAL — STATE OF CALIFORNIA

SIGNED: 09/30/2020

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LICENSED ARCHITECT — Mark A. Eacret — No. C-28195 — REN. 5-31-2021 — STATE OF CALIFORNIA

CLIENT

MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER -

DATE: 2020/11/10

DRAWN BY: -

CHECKED BY: -

REVISIONS

No.	Description	Date

100% CONSTRUCTION DOCUMENS

GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX

E001

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MM-20-020, SAN Building 400 & 900 Renovations ("Projects") – Prequalification Appendix Reference Documents

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	TOTAL V-A	LAMPS			VOLTAGE	MTG.	MANUFACTURER / REMARKS
			LUMENS	LOAD	TYPE			
D1	6" LED RECESSED DOWNLIGHT.	57	1500	57 VA	LED	277 V	R	LITHONIA: LDN6-40/15-L06AR-LSS-MVOLT-EZ10
D2	8" LED RECESSED DOWNLIGHT.	61	5000	61 VA	LED	277 V	R	LITHONIA: LDN8-40/50-L08AR-LSS-MVOLT-EZ10
G1	6" PENDANT STEM CYLINDER	10	1000	10 VA	LED	120 V	P	GOTHAM: EVO6PC-40/10-AR-MWD-LSS-MVOLT-EZ10-JBX-PCAN-S4
P1	10' LED POLE LIGHT.	33	1371	33 VA	LED	277 V	PO	SELUX: H2-LED-QH2L-R1-1-5G350-40-10-UNV
PA1	RECESSED PATH LIGHT.	8	299	8 VA	LED	277 V	R	HYDREL: HSL13-9INCH-LED-40K-MVOLT-L-MIN5
R1	1' x 4' RECESSED TROFFER.	15	2000	15 VA	LED	277 V	R	LITHONIA: VLT4-20L-ADP-EZ1-LP940
R2	2' x 2' RECESSED TROFFER.	33	4000	33 VA	LED	277 V	R	LITHONIA: 2VLT2-40L-ADP-EZ1-LP940
R3	2' x 4' RECESSED TROFFER.	31	4000	31 VA	LED	277 V	R	LITHONIA: 2VTL4-40L-ADP-EZ1-LP940
S1	LED PENDANT STRIP LIGHT	34	5000	34 VA	LED	277 V	P	LITHONIA: ZL1N-L48-5000-LLENS-MVOLT-40K-90CRI
W1	LED WALL MOUNTED FIXTURE.	15	1713	15 VA	LED	277 V	W	MARK ARCHITECTURAL: S2LWD-LLP-4FT-MSL4-40K-400LMF-MIN1-MVOLT
W2	LED EXTERIOR WALL SCONCE.	10	1175	10 VA	LED	277 V	W	LIGHTWAY: SWXW-12-LED-U-10W-4-23-WTP-DIM
X1	LED SINGLE FACE EXIT SIGN.	5	-	5 VA	LED	277 V	S	LITHONIA: LRP-W-1-RW-LRA-120/277-EL N

NOTES:
1. PROVIDE COMPLETE WITH ALL MOUNTING HARDWARE REQUIRED FOR COMPLETE INSTALLATION.
2. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE.
3. COORDINATE FIXTURE FINISHES WITH ARCHITECTURAL PLANS.

ABBREVIATIONS:
P = PENDANT
PO = POLE
R = RECESSED
S = SURFACE
T = TRACK
U = UNIVERSAL
W = WALL
B = BOLLARD

NOTES

1. CONTRACTOR SHALL COORDINATE LIGHTING FIXTURE MOUNTING REQUIREMENTS WITH ACTUAL CEILING CONSTRUCTION TYPE UTILIZED AS DEFINED ON THE ARCHITECTURAL DRAWINGS.
2. CONTRACTOR SHALL VERIFY DEPTH OF ALL RECESSED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING FIXTURES. ANY DISCREPENCIES THAT WOULD CAUSE RECESSED FIXTURES NOT TO FIT INTO CEILING SHALL BE REPORTED TO THE ARCHITECT AND OWNER PRIOR TO ORDERING FIXTURES.
3. VERIFY MOUNTING HEIGHT OF WALL AND PENDANT MOUNTED FIXTURES WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
4. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.

DSA FILE NO. 37-C2 A# 04-119030

PBK

ARCHITECTURE

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ENGINEER

REGISTERED PROFESSIONAL ENGINEER
No. E20825
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STATE OF CALIFORNIA
SIGNED: 09/30/2020

ARCHITECT

LICENSED ARCHITECT
Mark A. Eagar
No. C-28195
REN. 5.31.2021
STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
--

DATE: 2020/11/10
DRAWN BY: -
CHECKED BY: -

REVISIONS

No.	Description	Date

100% CONSTRUCTION DOCUMENS

SCHEDULES

E002

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MM-20-020, SAN Building 400 & 900 Renovations ("Projects") – Prequalification Appendix Reference Documents

NOTES

1. UTILIZE EXISTING 15A, 3-POLE EXISTING CIRCUIT BREAKER FOR NEW LOAD. UPDATE PANELBOARD CIRCUIT DIRECTORY ACCORDINGLY.
2. PROVIDE NEW 15A,1-POLE CIRCUIT BREAKER. MATCH MANUFACTURER AND KAIC RATING OF EXISTING PANELBOARD.
3. UTILIZE EXISTING 20A,1-POLE CIRCUIT BREAKER FOR NEW LOAD. UPDATE PANELBOARD CIRCUIT DIRECTORY ACCORDINGLY.
4. PROVIDE 20A,1-POLE CIRCUIT BREAKER IN EXISTING SPACE FOR NEW LOAD. UPDATE PANELBOARD CIRCUIT DIRECTORY ACCORDINGLY.
5. REPLACE EXISTING 60A,3-POLE BREAKER WITH NEW 100A,3-POLE BREAKER.
6. PROVIDE RED LOCKOUT HARDWARE FOR CIRCUIT BREAKER.
7. CIRCUIT BREAKER RENDERED SPARE AS A RESULT OF NEW WORK.
8. PROVIDE 350A,3-POLE CIRCUIT BREAKER FOR NEW TRANSFORMER. MATCH MANUFACTURER AND KAIC RATING OF EXISTING PANELBOARD.
9. PROVIDE NEW PANELBOARD.

GENERAL NOTES

1. CONTRACTOR TO UTILIZE BRANCH CIRCUITS SERVING ELECTRICAL DEVICES REMOVED AS PART OF THE DEMOLITION PAHSE. CONFIRM IN FIELD EXACT EXACT CIRCUIT NUMBERS TO BE UTILIZED.
2. PANELBOARDS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED.
3. EXISITNG LOADS ARE TO BE RECONNECTED TO SAME PANEL AND CIRCUIT ONCE NEW WORK IS COMPLETED.
4. CONTRACTOR TO PROVIDE UPDATED PANEL DIRECTORIES AND PERMANENTLY LABEL FIRE ALARM CONTROL PANEL WITH PANEL AND CIRCUIT NUMBER UPON COMPLETION OF CONSTRUCTION.

PANEL: P2

LOCATION: IDF 914 | VOLTAGE/PHASE: 120/208 WYE,3PH,4W | FED FROM: P1
FLOOR: LEVEL 1 | BUS AMPS: 100 A | RATING: 65 KAIC
MOUNTING: SURFACE | MAIN BREAKER: MLO

CKT	TYPE	LOAD	BKR/POLE		A	B	C	A	B	C	BKR/POLE		LOAD	TYPE	CKT	
1	--	(E)WHSP-1	15 A	2	1206 VA			200 VA			1	20 A	(E)EVEV EQUIP. RM LIGHTING	--	2	
3	--	--	--	--		1206 VA			200 VA		1	20 A	(E)ELEV CAD LIGHTING	--	4	
5	--	(E)WATER HTR (WH-2)	20 A	1			600 VA			500 VA	1	20 A	(E)ELEV EQUIP RM RECEPT	--	6	
7	--	(E)CIRCULATION PUMP(CP-2)	20 A	1	242 VA			500 VA			1	20 A	(E)ELEV CAB POWER	--	8	
9	--	(E)BOILER	20 A	1		1080 VA			1080 VA		1	20 A	(E)BLOWER HAND MEN W	--	10	
11	--	(E)SEIMENS PANEL	20 A	1			1080 VA			500 VA	1	20 A	(E)ELEC PIT POWER	--	12	
13	M	EF-1	20 A	1	11 VA			900 VA			3	20 A	(E)MAU-1	--	14	2
15	--	(E)EF-2	20 A	1		1128 VA			900 VA		--	--		--	16	
17	--	(E)EF-3	20 A	1			504 VA			900 VA	--	--		--	18	
19	--	(E)EF-4	20 A	1	504 VA			800 VA			1	20 A	(E)SECURITY PANEL	--	20	
21	--	(E)EF-5	20 A	1		504 VA			960 VA		1	20 A	FACP,VECP	N	22	3 6
23	--	(E)ROOF RECEPT	20 A	1			1080 VA			800 VA	1	20 A	(E)ELEV SHUNT TRIP	--	24	
25	--	(E)EF-6	20 A	1	504 VA			500 VA			1	20 A	(E)ACCESS CONTROL PANEL	--	26	
27	--	(E)EF-8	20 A	1		504 VA			500 VA		1	20 A	(E)ACCESS CONTROL PANEL	--	28	
29	--	(E)EF-9	20 A	1			504 VA			100 VA	1	20 A	(E)DOOR CONTROL	--	30	
31	--	(E)DOLPHIN SYSTEM	20 A	1	1080 VA			100 VA			1	20 A	(E)DOOR CONTROL	--	32	
33	--	(E)EF-7	20 A	1		504 VA			500 VA		1	20 A	(E)IDF RACK	--	34	
35	--	(E)SAC-1 INDOOR	15 A	2			500 VA			1440 VA	1	20 A	DRYER/FAUCET RM. 919	N	36	4
37	--	--	--	--	500 VA			500 VA			1	20 A	(E)ROOF RECEPT	--	38	
39	--	(E)SAC-1 INDOOR	15 A	2		1113 VA			1440 VA		1	20 A	FAPS,AMP,DIALER	N	40	3 6
41	--	--	--	--			1113 VA			480 VA	1	20 A	JACE CONTROLLERS	N	42	3

LOAD TYPE KEY:
N=NON CONTINUOUS M=MECH EQUIP
P=POWER R=RECEPTACLE
L=LIGHTING K=KITCHEN

TOTAL A: 7547 VA 63 A
TOTAL B 11619 VA 100 A
TOTAL C: 10101 VA 87 A

LOAD TYPE	CONNECTED	DEMAND FACTOR	ESTIMATED	PANEL TOTALS		
N	4320 VA	100.00%	4320 VA			
M	11 VA	100.00%	11 VA			
				TOTAL CONNECTED LOAD:	29267 VA	81 A
				TOTAL DEMAND LOAD:	29267 VA	81 A

PANEL: L2

LOCATION: ELEC. 915 | VOLTAGE/PHASE: 277/480 WYE,3PH,4W | FED FROM: L1
FLOOR: LEVEL 1 | BUS AMPS: 100 A | RATING: 65 KAIC
MOUNTING: SURFACE | MAIN BREAKER: MLO

CKT	TYPE	LOAD	BKR/POLE		A	B	C	A	B	C	BKR/POLE		LOAD	TYPE	CKT	
1	--	(E)SPARE	20 A	1	0 VA			3324 VA			3	15 A	(E)WHSP-9	--	2	
3	M	COOLING TOWER -1	15 A	3		2162 VA			3324 VA		--	--		--	4	
5	--	--	--	--			2162 VA			3324 VA	--	--		--	6	1
7	--	--	--	--	2162 VA			4432 VA			3	20 A	(E)DOLPHIN PUMP	--	8	
9	--	SPACE	--	--		0 VA			4432 VA		--	--		--	10	
11	--	SPACE	--	--			0 VA			4432 VA	--	--		--	12	
13	--	SPACE	--	--	0 VA						--	--	SPACE	--	14	
15	--	SPACE	--	--		0 VA			0 VA		--	--	SPACE	--	16	
17	--	SPACE	--	--			0 VA			0 VA	--	--	SPACE	--	18	
19	--	SPACE	--	--	0 VA				0 VA		--	--	SPACE	--	20	
21	--	SPACE	--	--		0 VA				0 VA	--	--	SPACE	--	22	
23	--	SPACE	--	--			0 VA			0 VA	--	--	SPACE	--	24	
25	--	SPACE	--	--	0 VA				0 VA		--	--	SPACE	--	26	
27	--	SPACE	--	--		0 VA				0 VA	--	--	SPACE	--	28	
29	--	SPACE	--	--			0 VA			0 VA	--	--	SPACE	--	30	

LOAD TYPE KEY:
N=NON CONTINUOUS M=MECH EQUIP
P=POWER R=RECEPTACLE
L=LIGHTING K=KITCHEN

TOTAL A: 9918 VA 36 A
TOTAL B 9918 VA 36 A
TOTAL C: 9918 VA 36 A

LOAD TYPE	CONNECTED	DEMAND FACTOR	ESTIMATED	PANEL TOTALS		
M	6485 VA	100.00%	6485 VA			
				TOTAL CONNECTED LOAD:	29753 VA	36 A
				TOTAL DEMAND LOAD:	29753 VA	36 A

PANEL: P3

LOCATION: STORAGE 908 | VOLTAGE/PHASE: 120/208 WYE,3PH,4W | FED FROM: P1
FLOOR: LEVEL 1 | BUS AMPS: 100 A | RATING: 65 KAIC
MOUNTING: SURFACE | MAIN BREAKER: 100 A 5

CKT	TYPE	LOAD	BKR/POLE		A	B	C	A	B	C	BKR/POLE		LOAD	TYPE	CKT	
1	R	RECP. RM. 916,917,913	20 A	1	540 VA			1200 VA			1	20 A	(E)RM 923 REFRIG REC.	--	2	3
3	--	(E)BOOKSTORE CASH WRAP	20 A	1		1080 VA			1080 VA		1	20 A	(E)RM 922 REC.	--	4	
5	R	RECP. RM. 919,920,921	20 A	1			900 VA			1080 VA	1	20 A	(E)RM 921, 922 REC.	--	6	3
7	R	RECP. RM. 919,920,921	20 A	1	540 VA			1080 VA			1	20 A	(E)RM 923, 924 REC.	--	8	
9	R	RECP. RM. 920,921	20 A	1		360 VA			1080 VA		1	20 A	(E)RM 924 REC.	--	10	
11	R	FRIDGE RM. 921	20 A	1			1400 VA			1080 VA	1	20 A	(E)RM 923 REC.	--	12	4
13	R	SIT STAND DESKS RM. 920,921	20 A	1	360 VA			1080 VA			1	20 A	(E)RM 922 DOOR OPERATOR	--	14	
15	R	SHREDDER RM. 917	20 A	1		700 VA			900 VA		1	20 A	RECP. RM. 931	R	16	
17	R	RECP. RM. 917,916	20 A	1			720 VA			100 VA	1	20 A	EMERGENCY PHONE	C	18	3
19	R	RECP. RM. 917,916	20 A	1	360 VA			500 VA			1	20 A	CLOCKS RM. 913,16,17,20,21	C	20	
21										300 VA	1	20 A	PLUMBING RM. 919-21	N	22	3
23	N	DRYER/FAUCET RM. 924	20 A	1			1000 VA			1440 VA	1	20 A	GARBAGE DISPOSAL RM. 934	N	24	
25	N	DRYER/FAUCET RM. 924	20 A	1	1000 VA			1640 VA			1	20 A	PLUMBING RM. 925,928	N	26	4
27	N	DRYER/FAUCET RM. 923	20 A	1		1000 VA			800 VA		1	20 A	PLUMBING RM. 923,924	N	28	
29	N	DRYVER/FAUCET RM. 923	20 A	1			1000 VA			1440 VA	1	20 A	DRINKING FOUNTAIN	N	30	

LOAD TYPE KEY:
N=NON CONTINUOUS M=MECH EQUIP
P=POWER R=RECEPTACLE
L=LIGHTING K=KITCHEN

TOTAL A: 8300 VA 70 A
TOTAL B 7300 VA 61 A
TOTAL C: 10160 VA 86 A

LOAD TYPE	CONNECTED	DEMAND FACTOR	ESTIMATED	PANEL TOTALS		
N	9620 VA	100.00%	9620 VA			
R	6780 VA	100.00%	6780 VA			
C	600 VA	125.00%	750 VA	TOTAL CONNECTED LOAD:	25760 VA	72 A
				TOTAL DEMAND LOAD:	25910 VA	72 A

PANEL: P1

LOCATION: ELEC. 915 | VOLTAGE/PHASE: 120/208 WYE,3PH,4W | FED FROM: T
FLOOR: LEVEL 1 | BUS AMPS: 600 A | RATING: 65 KAIC
MOUNTING: SURFACE | MAIN BREAKER: 600 A

CKT	TYPE	LOAD	BKR/POLE		A	B	C	A	B	C	BKR/POLE		LOAD	TYPE	CKT	
1	N; R...	(E)PANEL P-3	100 A	3	8300 VA			1000 VA			1	20 A	(E)VENDING MACHINE	--	2	9
3	--	--	--	--		7300 VA			1000 VA		1	20 A	(E)VENDING MACHINE	--	4	
5	--	--	--	--			10160...			1000 VA	1	20 A	(E)VENDING MACHINE	--	6	
7	R	RECP. OFFICE RM. 933	20 A	1	360 VA			1000 VA			1	20 A	(E)VENDING MACHINE	--	8	3
9	R	RECP. OFFICE RM. 933	20 A	1		360 VA			500 VA		1	20 A	(E)PROJECTOR AND SCREEN	--	10	
11	--	(E)CONDENSATE PUMP	20 A	1			1000 VA			200 VA	1	20 A	CLOCK RM. 931,932	C	12	
13	--	(E)CONV RECEPT/ATM...	20 A	1	720 VA			720 VA			1	20 A	RECP. RM 930	R	14	3
15	--	(E)TV RECEPT	20 A	1		500 VA			540 VA		1	20 A	RECP. RM 930	R	16	
17	--	(E)TV RECEPT	20 A	1			500 VA			1260 VA	1	20 A	RECP. RM. 916,913	R	18	
19	--	(E)REFRIG RECEPT	20 A	1	1200 VA			720 VA			1	20 A	RECP. RM.931,932	R	20	
21	--	(E)CONV RECEPT	20 A	1		1000 VA			900 VA		1	20 A	RECP. RM.931	R	22	
23	--	(E)CONV RECEPT	20 A	1			1000 VA			1260 VA	1	20 A	(E)CONV. RECEPT	--	24	
25	--	(E)CONV RECEPT	20 A	1	1260 VA			700 VA			1	20 A	MICROWAVE RM. 918	R	26	3
27	--	(E)CONV RECEPT	20 A	1		0 VA			200 VA		1	20 A	LTG. RM. 901	L	28	
29	--	(E)CONV RECEPT	20 A	1			0 VA			500 VA	1	20 A	(E)CONV. RECEPT	--	30	
31	--	(E)BATH RECEPT	20 A	1	1080 VA			500 VA			1	20 A	DOOR RM. 923,924,934	N	32	
33	--	(E)BLOWER FAST	20 A	1		1080 VA			560 VA		1	20 A	CLK 929,30; REC. RM. 926,29,30	R; C	34	3
35	--	(E)AUTO FLUSH(W. HAND...	20 A	1			1080 VA			540 VA	1	20 A	RECP. RM. 929,928	R	36	
37	N; M	(E)PANEL P-2	20 A	3	7547 VA			19942...			3	100 A	(E)PANEL K	--	38	
39	--	--	--	--		11619...			18379...		--	--		--	40	
41	--	--	--	--			10101...			16797...	--	--		--	42	

LOAD TYPE KEY:
N=NON CONTINUOUS M=MECH EQUIP
P=POWER R=RECEPTACLE
L=LIGHTING K=KITCHEN

TOTAL A: 45049 VA 377 A
TOTAL B 43938 VA 366 A
TOTAL C: 45398 VA 380 A

LOAD TYPE	CONNECTED	DEMAND FACTOR	ESTIMATED	PANEL TOTALS		
L	200 VA	125.00%	250 VA			
N	14440 VA	100.00%	14440 VA			
R	13240 VA	87.76%	11620 VA	TOTAL CONNECTED LOAD:	134385 VA	373 A
C	1000 VA	125.00%	1250 VA	TOTAL DEMAND LOAD:	133065 VA	369 A
M	11 VA	100.00%	11 VA			

PANEL: L1

LOCATION: ELEC. 915 | VOLTAGE/PHASE: 277/480 WYE,3PH,4W | FED FROM: MSB
FLOOR: LEVEL 1 | BUS AMPS: 400 A | RATING 65 KAIC
MOUNTING: SURFACE | MAIN BREAKER: MLO

CKT	TYPE	LOAD	BKR/POLE		A	B	C	A	B	C	BKR/POLE		LOAD	TYPE	CKT	
1	L	LTG. RM. 913-915,922-924	20 A	1	488 VA			2135 VA			3	15 A	(E)WHSP-5	--	2	
3	L	LTG. RM. 916-921	20 A	1		787 VA			2135 VA		--	--		--	4	3
5	L; P	LTG. RM. 925,926,929-934	20 A	1			1416 VA			2135 VA	--	--		--	6	
7	M	WHSP - 2	15 A	3	2909 VA			2135 VA			3	15 A	(E)WHSP-6	--	8	
9	--	--	--	--		2909 VA			2135 VA		--	--		--	10	1
11	--	--	--	--			2909 VA			2135 VA	--	--		--	12	
13	--	(E)WHSP-4	15 A	3	2163 VA			2163 VA			3	15 A	(E)WHSP-6	--	14	
15	--	--	--	--		2163 VA			2163 VA		--	--		--	16	
17	--	--	--	--			2163 VA			2163 VA	--	--		--	18	
19	--	(E)PUMP-1	15 A	3	2103 VA			3352 VA			3	20 A	(E)WHSP-6	--	20	
21	--	--	--	--		2103 VA			3352 VA		--	--		--	22	
23	--	--	--	--			2103 VA			3352 VA	--	--		--	24	
25	--	(E)PUMP-2	15 A	3	2103 VA			0 VA			1	20 A	SPARE	--	26	7
27	--	--	--	--		2103 VA			8320 VA		1	40 A	(E)INSTA HOT WATER HEATER	--	28	
29	--	--	--	--			2103 VA			8320 VA	1	40 A	(E)INSTA HOT WATER HEATER	--	30	
31	M	WHSP - 3	15 A	3	2493 VA			397 VA			1	20 A	LTG. EXTERIOR EAST ENTRY	L	32	
33	--	--	--	--		2493 VA			218 VA		1	20 A	LTG. EXTERIOR WEST ENTRY	L	34	3
35	--	--	--	--			2493 VA			610 VA	1	20 A	LTG. EXTERIOR WEST ENTRY	L	36	1
37	L; N...	T	350 A	3	45049...			9918 VA			3	100 A	(E)PANEL L-2	M	38	
39	--	--	--	--		43938...			9918 VA		--	--		--	40	8
41	--	--	--	--			45398...			9918 VA	--	--		--	42	

LOAD TYPE KEY:
N=NON CONTINUOUS M=MECH EQUIP
P=POWER R=RECEPTACLE
L=LIGHTING K=KITCHEN

TOTAL A: 77407 VA 279 A
TOTAL B 84736 VA 310 A
TOTAL C: 87217 VA 319 A

LOAD TYPE	CONNECTED	DEMAND FACTOR	ESTIMATED	PANEL TOTALS		
L	4116 VA	125.00%	5145 VA			
N	14440 VA	100.00%	14440 VA			
R	13240 VA	87.76%	11620 VA	TOTAL CONNECTED LOAD:	249361 VA	300 A
C	1000 VA	125.00%	1250 VA	TOTAL DEMAND LOAD:	249020 VA	300 A
M	22701 VA	100.00%	22701 VA			
P	0 VA	0.00%	0 VA			

-	P2	L2
P3	P1	L1

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ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION
3333 Manchester Ave, Cardiff, CA 92007

100% CONSTRUCTION DOCUMENS

MiraCosta College

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No. C-28195
REN. 5-31-2021
STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT
PROJECT NUMBER
--
DATE: 2020/11/10
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REVISIONS

No.	Description	Date

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PANEL SCHEDULES

E003

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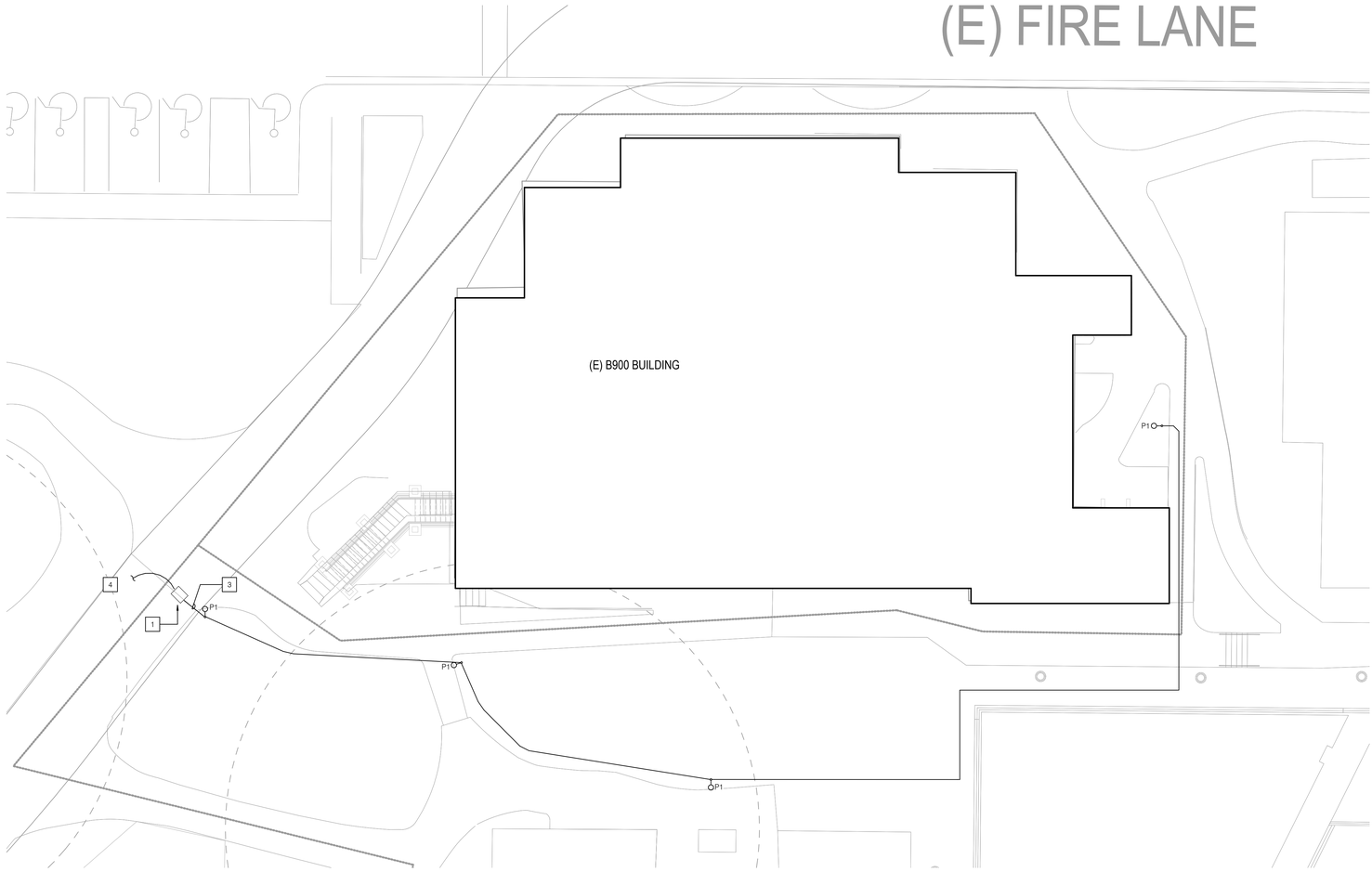
GENERAL NOTES

1. REPLACE EXISTING LIGHT FIXTURES WITH NEW LIGHT FIXTURES IN LOCATIONS SHOWN.
2. REPLACE EXISTING CONDUIT, WIRE, AND CONTROL WIRES FOR NEW LIGHT FIXTURES.
3. FEEDS TO SITE LIGHT FIXTURES ARE TO BE INSTALLED A MINIMUM OF 18" BELOW GRADE.
4. EXISTING LOADS ARE TO BE RECONNECTED TO SAME PANEL AND CIRCUIT ONCE NEW WORK IS COMPLETED.
5. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E002 FOR ADDITIONAL FIXTURE INFORMATION.
6. SITE LIGHTING FIXTURES SHALL BE CONTROLLED THROUGH NEW nLIGHT ECLYPSE CONTROLLER LOCATED IN IDF ROOM 914.
7. LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL USE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID ANY/ALL EXISTING DUCTS, PIPING, CONDUITS, ETC TO PREVENT PERSONNEL HAZARD AND/OR DAMAGE TO ANY EXISTING TO REMAIN UNDERGROUND UTILITIES.
8. CONTRACTOR TO UTILIZE EXISTING PATHWAYS FOR NEW FEEDS.

NOTES

1. PROVIDE NEW 12"X12"X24" PULLBOX FOR CONNECTION OF NEW CONDUIT AND WIRING TO EXISTING.
2. UTILIZE EXISTING POWER FEED FROM CIRCUITS LA-33,35 COMING FROM BUILDING B800.
3. PROVIDE NEW 3/4"C - 2#10., 1#10G. 18" BELOW FINISHED GRADE. PROVIDE WARNING TAPE AT 12" BELOW FINISHED GRADE.



1 SITE LIGHTING

SCALE: 3/32" = 1'-0"

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ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

3333 Manchester Ave, Cardiff, CA 92007

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MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
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SITE PLAN

E101

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NOTES

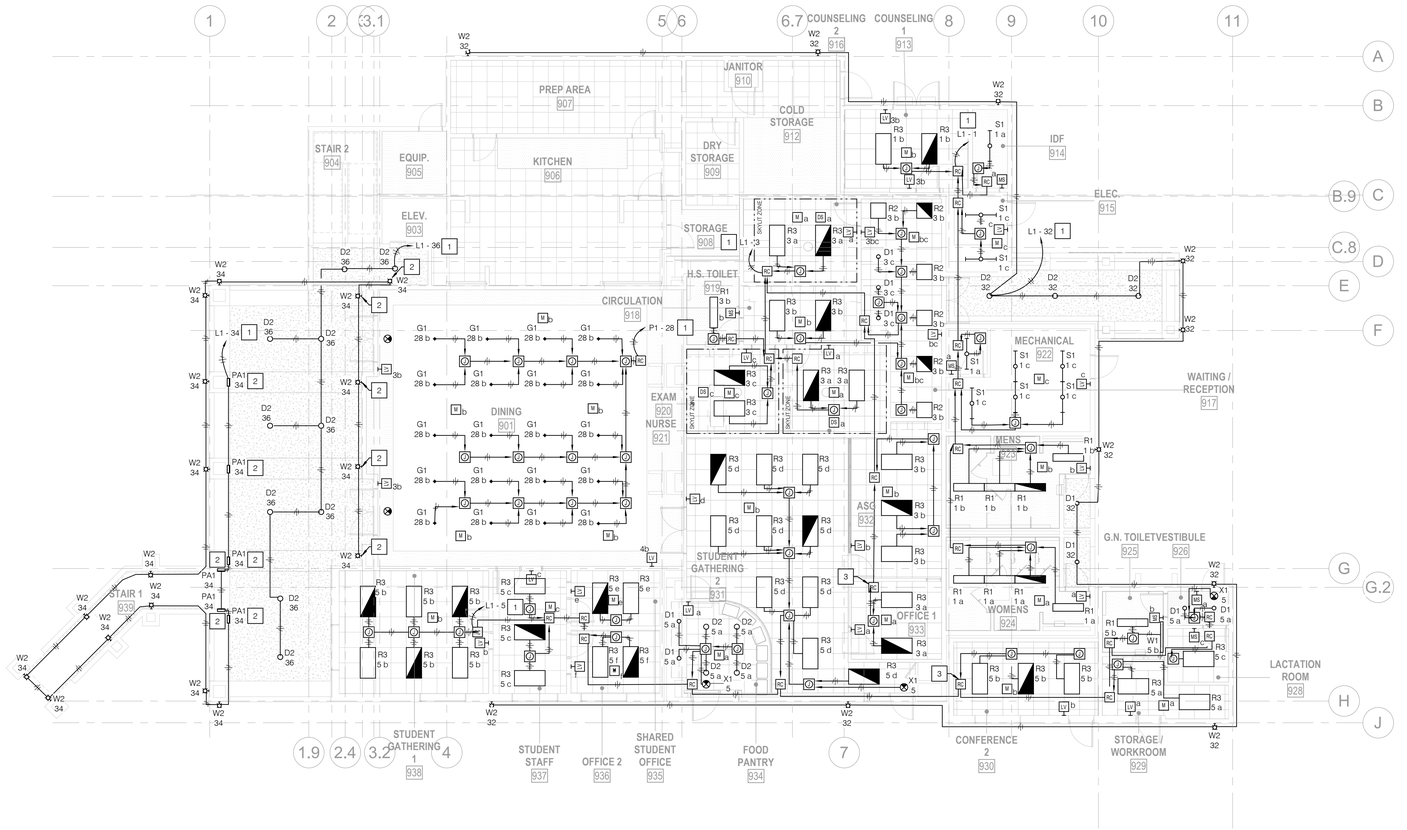
1. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E002 FOR ADDITIONAL INFORMATION.
2. ALL EXISTING LIGHT FIXTURES SHALL BE REMOVED AND REPLACED WITH NEW LED LIGHT FIXTURES. RETAIN EXISTING BRANCH CIRCUITING FOR RECONNECTION TO NEW FIXTURE. NEW LIGHTING CONTROLS SHALL BE PROVIDED.
3. PROVIDE 90-MINUTE BATTERY PACK OPTION FOR SHADED EMERGENCY LIGHTING FIXTURES SHOWN ON PLANS.
4. WHERE APPLICABLE, COORDINATE INSTALLATION OF NEW FIXTURES INTO EXISTING CEILINGS. PROVIDE MOUNTING KITS AS REQUIRED. REFER TO ARCHITECTURAL CEILING PLAN FOR CEILING TYPES.
5. CONTROLS ARE TO BE MONITORED BY THE nLIGHT ENVYSION SYSTEM. ZONING FOR THE FLOOR PLAN AND GRAPHICAL INTERFACE SHALL BE PROVIDED BY SYSTEM MANUFACTURER. CONTRACTOR TO COORDINATE APPROVED SHOP DRAWINGS PRIOR TO INSTALLATION.
6. CONTRACTOR TO CONFIRM EXISTING CIRCUIT LOADS AND TRACE CIRCUITING BEFORE BEGINNING NEW WORK AND ADDING LIGHT FIXTURES TO EXISTING CIRCUIT.
7. UPON VERIFICATION OF CICRCUITING, CONTRACTOR SHALL ADD NUMBERING IN AS-BUILT DRAWINGS.
8. WHERE APPLICABLE, EXISTING CONDUIT AND WIRING WITHIN WALLS SHALL BE RETAINED AND RE-USED FOR NEW ELECTRICAL DEVICES.
9. UTILIZE EXISTING PANEL 'L1' FOR ALL NEW LIGHTING.

NOTES

10. CONTRACTOR TO INDICATE LOCATIONS WHERE EXISTING FLEXIBLE CONDUIT IS USED ON PLANS UPON COMPLETION OF CONSTRUCTION.
11. FINAL SOLATUBE SELECTION ALONG WITH QUANTITIES AND LOCATIONS TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
12. CONTRACTOR TO UTILIZE EXISTING PATHWAYS FOR NEW FEEDS.
13. PROVIDE EMT CONDUIT IN LOCATIONS IDENTIFIED DURING DEMO AS HAVING FLEX CONDUIT THAT IS LONGER THAN 6' AND/OR IS NOT UTILIZED AS A LIGHTING JUMPER.

GENERAL NOTES

1. RE-USE AND RE-CONECT EXISTING CONDUIT AND WIRING FOR NEW EQUIPMENT FEED.
2. FIXTURES LOCATED ON SECOND FLOOR DINING LEVEL. COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALL.
3. PROVIDE ROOM CONTROLLER WITH PLUG LOAD CONTROL CAPABILITIES FOR RECEPTACLES SHOWN ON SHEET E211. INSTALL PER MANUFACTURER REQUIREMENTS.



1 FIRST FLOOR LIGHTING PLAN

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

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ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

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LICENSED ARCHITECT — Mark A. Eagle — No. C-28195 — REN. 5-31-2021 — STATE OF CALIFORNIA

CLIENT

MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER

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LIGHTING PLANS

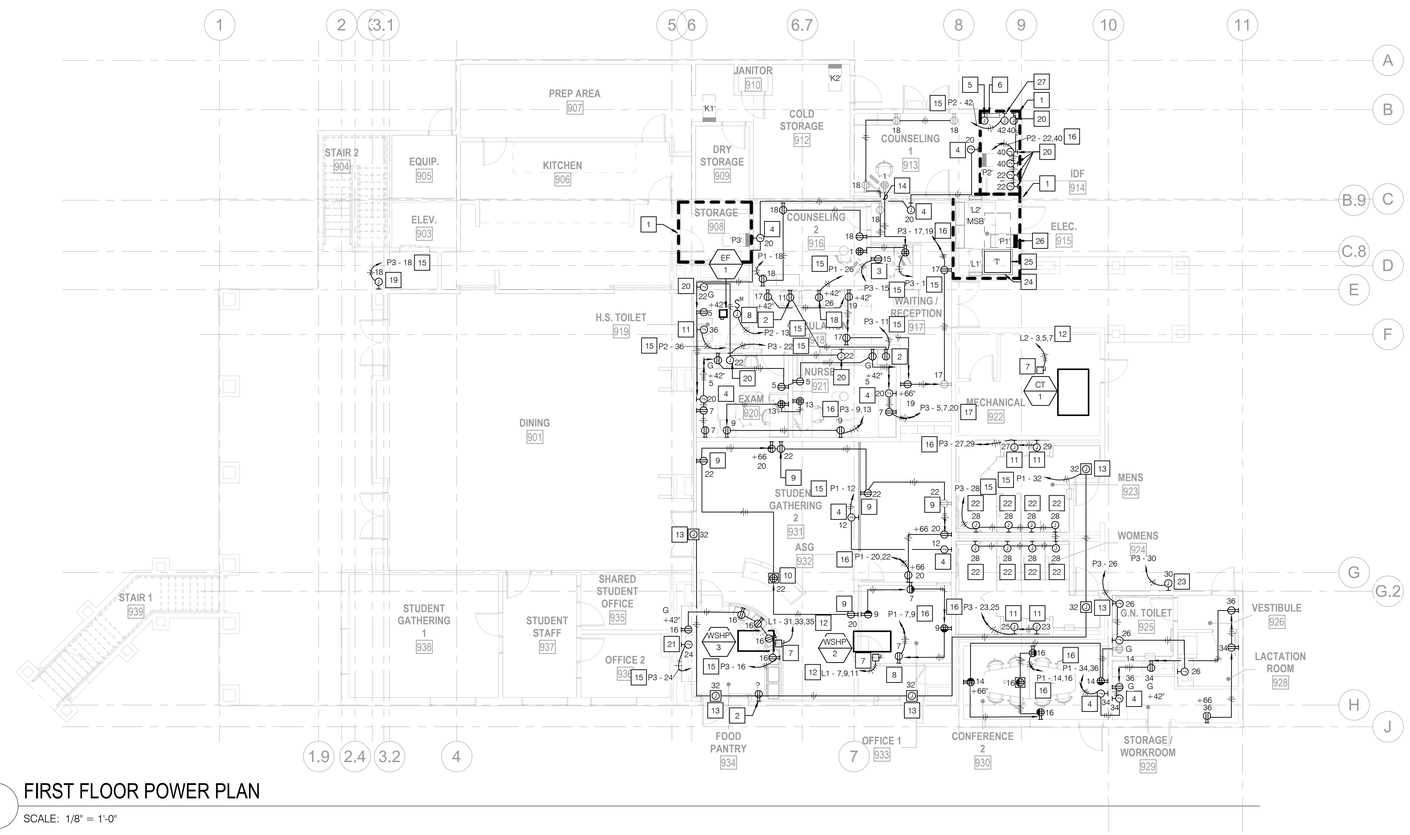
E201

GENERAL NOTES

1. RE-CONNECT EXISTING CONDUIT AND WIRE TO NEW ELECTRICAL DEVICES WHERE NOTED.
2. REFER TO PANEL SCHEDULES ON SHEET E003 FOR ADDITIONAL INFORMATION.
3. ALL NEW BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS UNLESS OTHERWISE NOTED. EXISTING MULTIWIRE BRANCH CIRCUITS THAT ARE RE-UTILIZED SHALL BE PROVIDED WITH NEW CIRCUIT BREAKER.
4. CONTRACTOR TO CONFIRM EXISTING CIRCUIT LOADS AND TRACE CIRCUITING BEFORE BEGINNING NEW WORK AND ADDING DEVICES TO EXISTING CIRCUIT. UPON VERIFICATION OF CIRCUITING. CONTRACTOR SHALL ADD NUMBERING IN AS-BUILT DRAWINGS.
5. DEVICES SHOWN IN GREY ARE EXISITING TO REMAIN IN PLACE WITH EXISTING CIRCUITING AND POWER FEEDS.
6. ALL RECEPTACLES SHALL BE STAINLESS STEEL. EXISTING RECEPTACLES SHALL BE REPLACED TO BE STAINLESS STEEL.
7. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS.
8. PROVIDE EMT CONDUIT IN LOCATIONS IDENTIFIED DURING DEMO AS HAVING FLEX CONDUIT THAT IS LONGER THAN 6' AND/OR IS NOT UTILIZED AS A LIGHTING JUMPER.
9. LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL USE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID ANY/ALL EXISTING DUCTS, PIPING, CONDUITS, ETC TO PREVENT PERSONNEL HAZARD AND/OR DAMAGE TO ANY EXISTING TO REMAIN UNDERGROUND UTILITIES.
10. CONTRACTOR TO UTILIZE EXISTING PATHWAYS FOR NEW FEEDS. CONTRACTOR SHALL PROVIDE 1"C TO ALL THERMOSTATS. COORDINATE FINAL LOCATIONS AND QUANTITIES WITH CONTROLS ENGINEER.

NOTES

1. EXISTING ELECTRICAL EQUIPMENT IN THE ROOM SHALL REMAIN AND BE UTILIZED FOR NEW WORK.
2. PROVIDE DEDICATED DUPLEX RECEPTACLE FOR REFRIGERATOR. COORDINATE FINAL HEIGHT AND LOCATION WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
3. PROVIDE DEDICATED DUPLEX RECEPTACLE FOR PAPER SHREDDER. COORDINATE FINAL HEIGHT AND LOCATION WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
4. PROVIDE 120V POWER FOR CLOCK. COORDINATE FINAL HEIGHT AND LOCATION WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
5. PROVIDE CONNECTION TO nLIGHT ECLYPSE SYSTEM CONTROLLER. COORDINATE FINA INSTALLATION REQUIREMENTS WITH MANUFACTURER.
6. PROVIDE nLIGHT ARP LIGHTING CONTROL RELAY PANEL. COORDINATE FINAL INSTALLATION REQUIREMENTS WITH MANUFACTURER.
7. PROVIDE NEW HEAVY DUTY 30A, 3-POLE DISCONNECT WITH 15A FUSE.. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.
8. PROVIDE MOTOR RATED SWITCH. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS WITH MECHANICAL DRAWINGS.
9. PROVIDE DUPLEX RECEPTACLE WITH DUEL USB PORTS.
10. PROVIDE FLOOR BOX WITH QUAD RECEPTACLE AND DUEL USB PORTS.
11. PROVIDE POWER TO COMBINATION HAND DRYER AND FAUCET. COORDINATE FINAL INSTALLATION REQUIREMENTS AND POINT OF CONNECTION PRIOR TO ROUGH-IN.
12. RE-USE AND RE-CONNECT EXISTING CONDUIT AND WIRING FOR NEW EQUIPMENT.
13. RE-USE AND RECONNECT EXISTING WIRING FOR EQUIPMENT FEED.
14. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITRY TO NEW DEVICES AS SHOWN.
15. PROVIDE 3/4"C - 2#12,1#12G.
16. PROVIDE 3/4"C - 4#12,1#12G.
17. PROVIDE 3/4"C - 6#12,1#12G.
18. PROVIDE DEDICATED DUPLEX RECEPTACLE FOR REFRIGERATOR. COORDINATE FINAL HEIGHT AND LOCATION WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
19. PROVIDE 120V TO EMERGENCY PHONE LIGHT. COORDINATE FINAL INSTALLATION WITH MANUFACTURER REQUIREMENTS PRIOR TO ROUGH-IN.
20. PROVIDE 120V TO FAUCET SENSOR. COORDINATE FINAL INSTALLATION WITH MANUFACTURER REQUIREMENTS PRIOR TO ROUGH-IN.
21. PROVIDE 120V TO GARBAGE DISPOSAL. COORDINATE FINAL INSTALLATION WITH MANUFACTURER REQUIREMENTS PRIOR TO ROUGH-IN.
22. PROVIDE 120V TO PLUMBING FIXTURE. COORDINATE FINAL INSTALLATION WITH MANUFACTURER REQUIREMENTS PRIOR TO ROUGH-IN.
23. PROVIDE 120V TO DRINKING FOUNTAIN. COORDINATE FINAL INSTALLATION WITH MANUFACTURER REQUIREMENTS PRIOR TO ROUGH-IN.
24. PROVIDE NEW CONCRETE PAD FOR TRANSFORMER.
25. PROVIDE NEW TRANSFORMER. REFER TO SHEET E501 FOR SIZING.
26. PROVIDE NEW PANELBOARD. REFER TO SHEET E501 FOR SIZING.
27. PROVIDE POWER TO JACE CONTROLLERS. COORDINATE FINAL LOCATION AND INSTALLATION WITH CONTROLS DRAWINGS.



1 FIRST FLOOR POWER PLAN

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

DSA FILE NO. 37-C2 A# 04-119030

PBK
ARCHITECTURE

MCC SAN ELIJO BUILDING 900
MODERNIZATION
3333 Manchester Ave, Cardiff, CA 92007

100% CONSTRUCTION DOCUMENS

MiraCosta College

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San Diego | San Jose
p2sinc.com

ENGINEER
No. E20825
SIGNED: 09/30/2020

ARCHITECT
LICENSED ARCHITECT
Mark A. Eacret
No. C-28195
REN. 5-31-2021
STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

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POWER PLANS

E211

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

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GENERAL NOTES

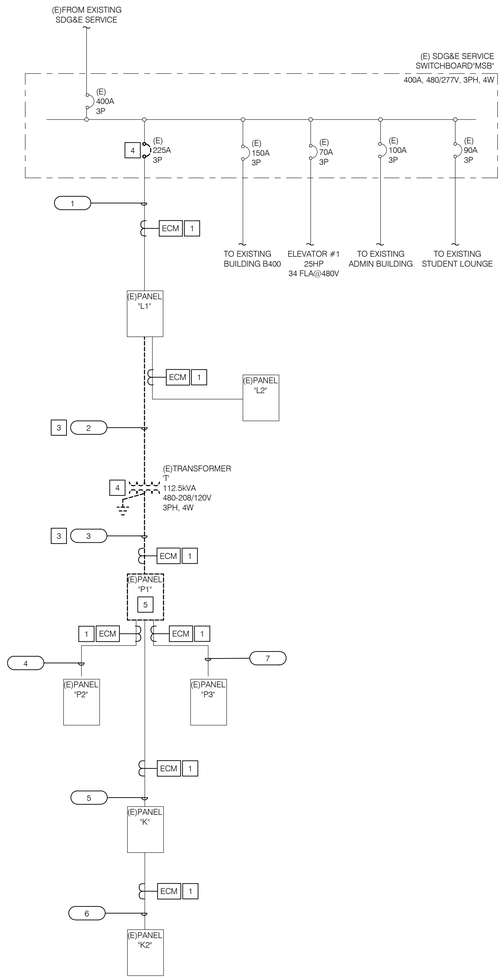
1. ALL ELECTRICAL DISTRIBUTION AND FEEDS ARE EXISTING U.O.N.
2. REFER TO CONTROL CONSULTANT DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THE ARCHITECTURE FOR PANELBOARD METERING.

NOTES

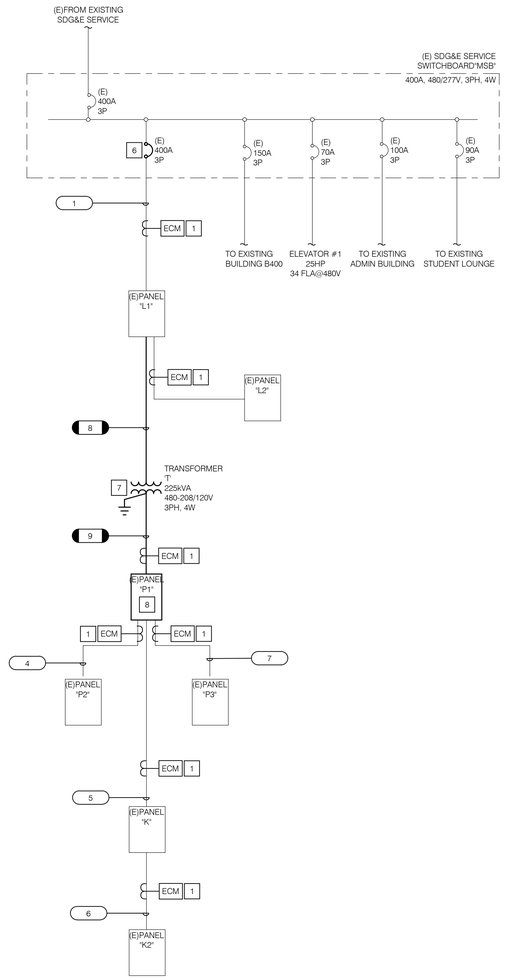
1. PROVIDE VERIS E51H5 SERIES POWER MONITORING METER. INSTALL METER WITHIN FLUSH MOUNTED NEMA 1 ENCLOSURE WITH CLEAR HINGED COVER. COORDINATE INSTALLATION OF CURRENT TRANSFORMERS AND POTENTIAL TRANSFORMERS WITH EXISTING PANELBOARD. COORDINATE REQUIRED WIRING TO REMOTE METER WITH MANUFACTURERS RECOMMENDATIONS. COORDINATE BACNET CONNECTION TO DDC CONTROLLERS FOR INTERFACE WITH BUILDING MANAGEMENT SYSTEM WITH CONTROLS CONTRACTOR.
2. DEMOLISH EXISTING 225A,3-POLE BREAKER.
3. DEMOLISH EXISTING CONDUIT AND WIRING.
4. DEMOLISH EXISTING 112.5kVA TRANSFORMER.
5. DEMOLISH EXISTING PANELBOARD.
6. PROVIDE NEW 400A,3-POLE BREAKER. MATCH EXISTING MANUFACTURER AND KAIC RATING.
7. PROVIDE NEW 225kVA TRANSFORMER.
8. PROVIDE NEW 600A PANELBOARD.

FEEDER SCHEDULE

1	(E) 3"C - 3#4/0 (HOT), 1#4/0 (NEUTRAL), 1#4 GROUND
2	(E) 1-1/2"C - 3#2/0 (HOT)
3	(E) 4"C - 3#500 MCM (HOT), 1#500 MCM (NEUTRAL), 1#4/0 GROUND
4	(E) 2"C - 3#1 (HOT), 1#1 (NEUTRAL), 1#8 GROUND
5	(E) 2"C - 3#1/0 (HOT), 1#1/0 (NEUTRAL), 1#8 GROUND
6	(E) 2"C - 3#1 (HOT), 1#1 (NEUTRAL), 1#8 GROUND
7	(E) 2"C - 3#1/0 (HOT), 1#1/0 (NEUTRAL), 1#8 GROUND
8	4"C - 3#350 KCMIL, 1#4 GROUND
9	4"C - 4#600 KCMIL, 1#2 GROUND



EXISTING



NEW

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ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

3333 Manchester Ave, Cardiff, CA 92007

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MIRACOSTA COLLEGE

CONSULTANT

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ENGINEER

REGISTERED PROFESSIONAL ENGINEER — ELECTRICAL — No. E20825 — STATE OF CALIFORNIA

SIGNED: 09/30/2020

ARCHITECT

LICENSED ARCHITECT — Mark A. Eagar — No. C-28195 — REN. 5-31-2021 — STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
-

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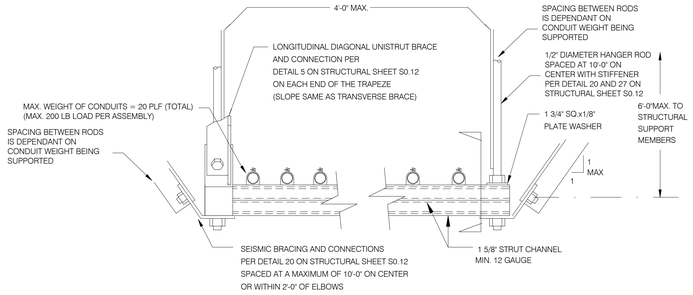
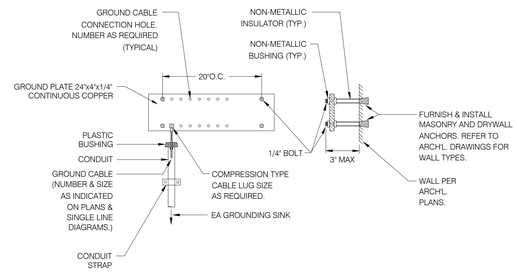
SINGLE LINE DIAGRAM

E501



2 TYPICAL CONDUIT SUPPORT

NO SCALE



1 GROUNDING BUS BAR

NO SCALE

DSA FILE NO. 37-C2 A# 04-119030

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ENGINEER

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LICENSED ARCHITECT
Mark A. Eacret
No. C-28195
REN. 5-31-2021
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CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

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DETAILS

E601

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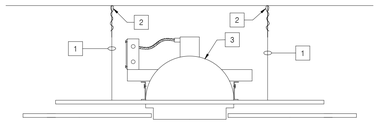
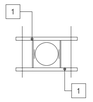




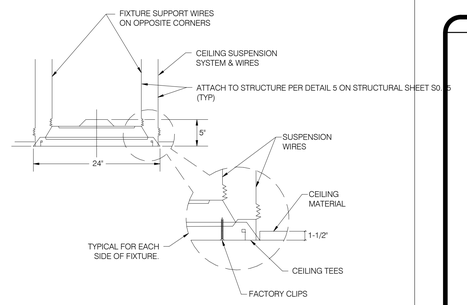
PLAN VIEW

NOTES

1. PROVIDE (1) #12 STEEL WIRE SUPPORT PER CHANNEL. SEE PLAN VIEW.
2. FOR ANCHOR DETAIL, SEE ARCHITECTURAL.
3. RECESSED DOWNLIGHT FIXTURE.

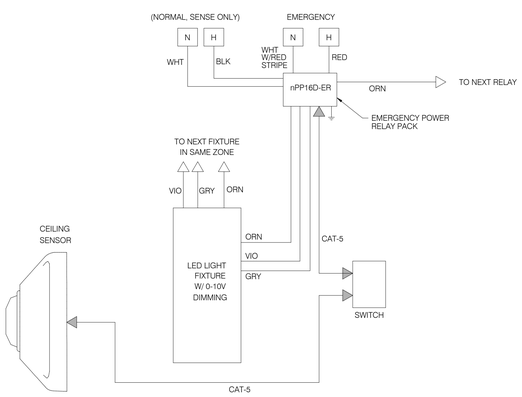
4 DOWNLIGHT - T-BAR CEILING

NO SCALE



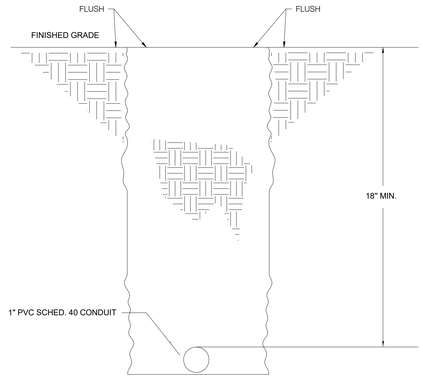
2 LIGHT FIXTURE - T-BAR CEILING

NO SCALE



5 DIMMABLE DRIVER EMERGENCY FIXTURE WIRING DIAGRAM - TYPICAL

NO SCALE

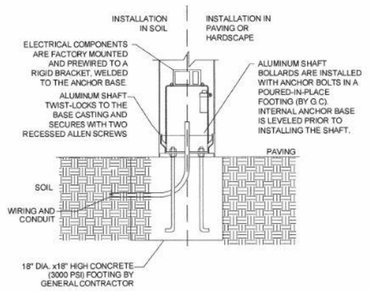


GENERAL NOTES:

1. RADIUS BENDS MINIMUM 12" FOR 1"PVC CONDUIT.
2. EXCAVATION AND BACKFILL: COMPLY WITH DIVISION 31 SPEC BUT DO NOT USE HEAVY-DUTY; HYDRAULIC-OPERATED, COMPACTION EQUIPMENT.
3. RESTORE HARDSCAPE AND LANDSCAPE FEATURES AT AREAS DISTURBED BY EXCAVATION, TRENCHING, STORING OF DIRT, CABLE LAYING, AND OTHER WORK.
4. CUT AND PATCH EXISTING PAVEMENT IN THE PATH OF UNDERGROUND DUCTS AND UTILITY STRUCTURES. REFER TO DETAIL 3 ON STRUCTURAL SHEET S0.11 FOR ADDITIONAL INFORMATION.

3 CONDUIT TRENCH DETAIL

NO SCALE



GENERAL NOTES:

1. FOR EXACT INSTALLATION REQUIREMENTS, REFER TO MANUFACTURERS SPECIFICATIONS.

1 BOLLARD DETAIL

NO SCALE

DSA FILE NO. 37-C2 A# 04-119030

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ARCHITECTURE

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CLIENT

MIRACOSTA COMMUNITY COLLEGE DISTRICT

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DETAILS

E602

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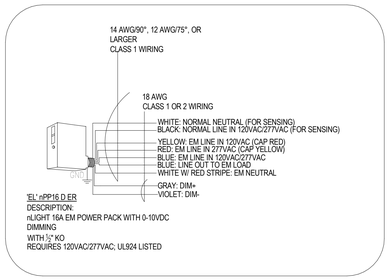
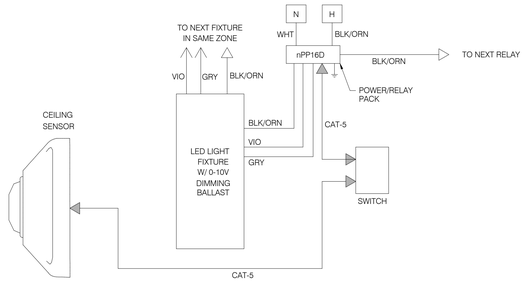


'EL' nPP16 D ER
DESCRIPTION:
nLIGHT 16A EM POWER PACK WITH 0-10VDC DIMMING
WITH ½" KO
REQUIRES 120VAC/277VAC; UL924 LISTED

nPP16 D ER SHALL BE USED IN LIEU OF nPP16 D WHERE EMERGENCY LIGHTING CONTROLS ARE INDICATED ON PLANS AS 'E'. REFER TO DETAIL #4 ON THIS SHEET FOR SYSTEM CIRCUITING.

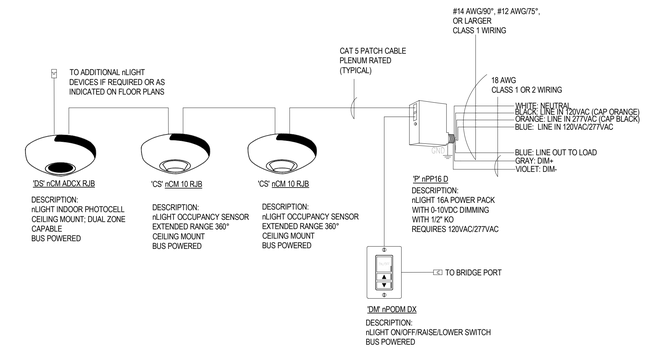
4 EMERGENCY FIXTURE POWER PACK

NO SCALE



3 TYPICAL - DIMMABLE BALLAST FIXTURE WIRING DIAGRAM

NO SCALE

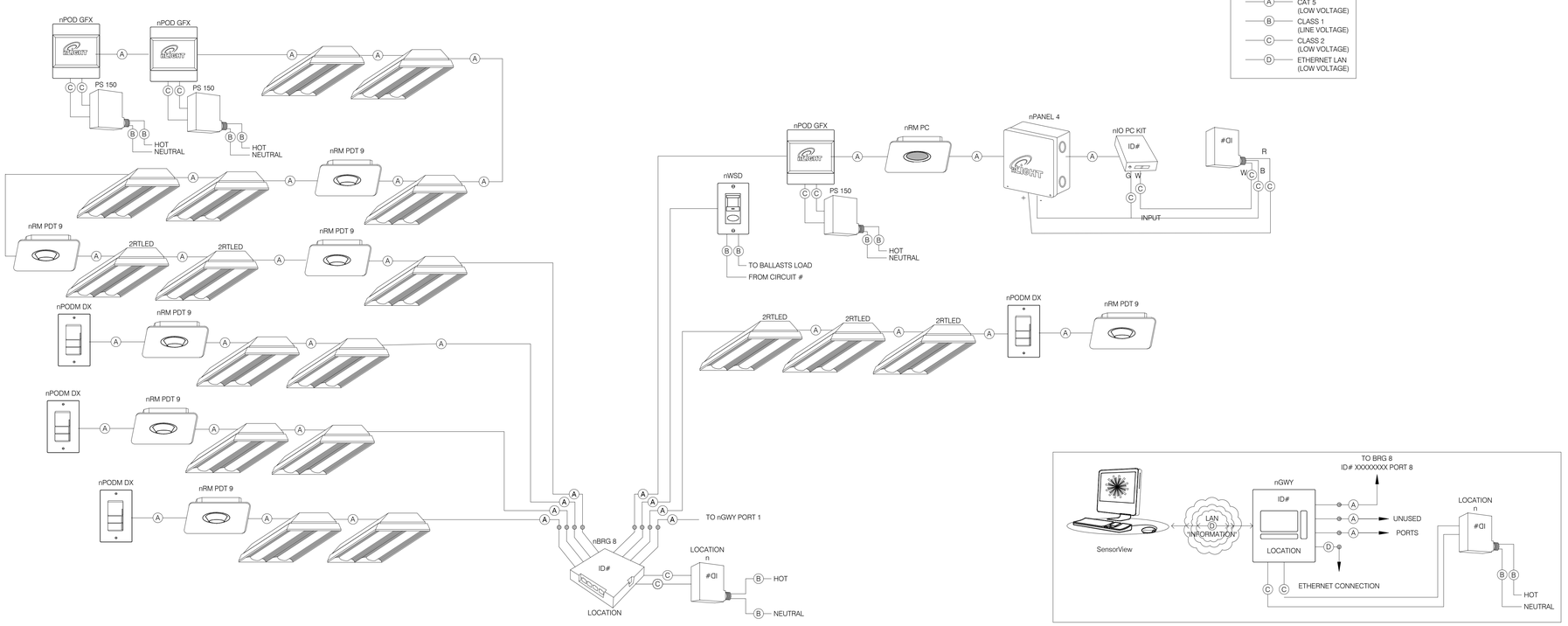


2 TYPICAL nLIGHT POWER PACK

NO SCALE

T24 2016 COMPLIANT SEQUENCE OF OPERATION:

1. LIGHTS SHALL AUTOMATICALLY GO TO 100% FULL BRIGHT WHEN SENSED BY ANY OCCUPANCY SENSOR IN THE ENCLOSED SPACE.
2. 1ST TIME OUT: AFTER 10 MINUTES OF VACANCY, LIGHTS SHALL GO TO 30% DIMMED LEVEL.
3. 2ND TIME OUT: AFTER AN ADDITIONAL 10 MINUTES OF VACANCY AFTER 1ST TIME OUT, LIGHTS SHALL GO FROM 30% DIMMED LEVEL TO OFF.
4. ALTERNATE FOR 2ND TIME OUT: AUTOMATIC SHUT-OFF VIA SCHEDULED TIME CLOCK, BUT nLIGHT SYSTEM MUST BE A NETWORKED GATEWAY SYSTEM AND NOT STANDALONE.
5. nPODM DX SWITCH PROVIDES MANUAL OVERRIDE OF THE LIGHTS: ON/OFF/RAISE/LOWER.



1 TYPICAL WIRING DIAGRAM

NO SCALE

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DETAILS

E603

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MCC SAN ELIJO BUILDING 900 MODERNIZATION	Report Page:	(Page 3 of 9)
Project Address:	3333 Manchester Ave	Date Prepared:	11/10/2020

F. INDOOR LIGHTING FIXTURE SCHEDULE

R1	R1	No	No	15	Mfr. Spec	9	No	135	☐	☐
R2	R2	No	No	33	Mfr. Spec	11	No	363	☐	☐
R3	R3	No	No	31	Mfr. Spec	42	No	1,302	☐	☐
S1	S1	No	No	34	Mfr. Spec	10	No	340	☐	☐
							Total Designed Watts: CONDITIONED SPACES	2,625		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Pass	Fail
Required > 10,000 SF	Whole Building Auto Time Switch	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.0.001, Schema Version: rev 20190401 — Report Generated: 2020-11-10 10:02:53

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MCC SAN ELIJO BUILDING 900 MODERNIZATION	Report Page:	(Page 2 of 9)
Project Address:	3333 Manchester Ave	Date Prepared:	11/10/2020

C. COMPLIANCE RESULTS
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)					Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 (See Table I)	Area Category Additional §140.6(c)2G (+) (See Table J)	Tailored §140.6(c)3 (+) (See Table K)	=	Total Allowed (Watts)	≥	Total Designed (Watts) (See Table F)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-) (See Table P)	=	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 §140.6
Conditioned	3,495.35				=	3,495.35	≥	2,625	0	=	2625	COMPLIES
Unconditioned					=		≥			=		
									Controls Compliance (See Table H for Details)			COMPLIES
									Rated Power Reduction Compliance (See Table Q for Details)			

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE
This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector	
									Pass	Fail
D1	D1	No	No	57	Mfr. Spec	5	No	285	☐	☐
G1	G1	No	No	10	Mfr. Spec	20	No	200	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.0.001, Schema Version: rev 20190401 — Report Generated: 2020-11-10 10:02:53

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	MCC SAN ELIJO BUILDING 900 MODERNIZATION	Report Page:	(Page 1 of 9)
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This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01	Project Location (city)	Cardiff	04	Total Conditioned Floor Area (ft²)	5,377.46
02	Climate Zone	7	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☒ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☒ Healthcare ☐ Other (Write in)

B. PROJECT SCOPE
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System	Complete Building Method	5377.46	Complete Building Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	5377.46		0	

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.0.001, Schema Version: rev 20190401 — Report Generated: 2020-11-10 10:02:53

STATE OF CALIFORNIA
Indoor Lighting
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CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. *EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*	13
	Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Whole Building	School Building	0.65	5,377.46	3,495.35	No	No
			TOTALS:	5,377.46	3,495.35	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

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STATE OF CALIFORNIA
Indoor Lighting
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

FOOD PANTRY 934	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
ASG 932	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
MENS TOILET 923	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
WOMANS TOILET 924	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
STORAGE/WORKROOM	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
DINING 901	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
STUDENT GATHERING 1 938	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
OFFICE 1 933	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
OFFICE 2 936	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
STUDENT STAFF 937	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
G.N. TOILET 925	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
JANITORS CLOSET	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
MECHANICAL 922	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
ELECTRICAL 915	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
IDF 914	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

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STATE OF CALIFORNIA
Indoor Lighting
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CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
COUNSELING 1- 913	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
COUNSELING 2- 916	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	N/A	No	☐	☐
CONFERENCE 2	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
LACTATION ROOM 928	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
WAITING/RECEPTION 917	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
STUDENT GATHERING 2 931	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
VESTIBULE	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
CIRCULATION 918	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
NURSE 921	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
EXAM 920	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	Included	N/A	No	☐	☐
SHARED STUDENT OFFICE 935	All Others Buildings	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.0.001, Schema Version: rev 20190401 — Report Generated: 2020-11-10 10:02:53

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	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:	Responsible Designer Signature:
Ross M. Slocum	
Company:	Date Signed:
P2S Inc.	2020-11-10
Address:	License:
9665 Chesapeake Dr. #230	E20825
City/State/Zip:	Phone:
San Diego CA 92123	619-618-2347

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

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STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
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U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
●	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
●	○	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.0.001, Schema Version: rev 20190401 — Report Generated: 2020-11-10 10:02:53

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
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Project Address:	3333 Manchester Ave	Date Prepared:	11/10/2020

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P.POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALLALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

Registration Number: — Registration Date/Time: — Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance — Report Version: 2019.0.001, Schema Version: rev 20190401 — Report Generated: 2020-11-10 10:02:53

DSA FILE NO. 37-C2 A# 04-119030

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION
3333 Manchester Ave, Cardiff, CA 92007

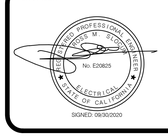
100% CONSTRUCTION DOCUMENS

MiraCosta College

CONSULTANT

P2S ENG
Long Beach | Los Angeles
San Diego | San Jose
p2sInc.com

ENGINEER



ARCHITECT

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT
PROJECT NUMBER
-
DATE: 2020/11/10
DRAWN BY: -
CHECKED BY: -

REVISIONS

No.	Description	Date

100% CONSTRUCTION DOCUMENS

TITLE 24 COMPLIANCE FORMS

E701

C:\Users\Miriam Pinzon\Documents\J0977_MEPT_R19-Central_miriam.pinzonbetancourt@P32ZN.rvt
11/10/2020 10:29:58 AM

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
										Pass	Fail
D2	D2	☐ Linear	61	Mfr. Spec	15	New	☐	915	NA: < 6200 lumens	☐	☐
P1	P1	☐ Linear	33	Mfr. Spec	3	New	☐	99	NA: < 6200 lumens	☐	☐
PA1	PA1	☐ Linear	10	Mfr. Spec	8	New	☐	80	NA: < 6200 lumens	☐	☐
W2	W2	☐ Linear	10	Mfr. Spec	27	New	☐	270	NA: < 6200 lumens	☐	☐
							Total Design Watts:	1364			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)*

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L												Compliance Results		
01		02		03		04		05		06		07	08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	Total Allowed (Watts)	≥	Total Actual (Watts)	07 must be >= 08
1,420.99	+	---	+	---	+	---	+	---	OR	---	=	1,420.99	≥	1,364	COMPLIES
Cutoff Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES with Exceptional Conditions

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	MCC SAN ELIJO BUILDING 900 MODERNIZATION	Report Page:	(Page 1 of 7)
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A. GENERAL INFORMATION

01	Project Location (city)	Cardiff	04	Total Illuminated Hardscape Area (ft²)	11953
02	Climate Zone	7			
03	Outdoor Lighting Zone per Title 24 Part 1 §10_114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐	LZ-2: Moderate - Rural Areas	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐	LZ-1: Low - Developed Parkland	☒	LZ-3: Moderately High - Urban Areas		

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from §140.7
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

STATE OF CALIFORNIA
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N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
●	○	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

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I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

01				
☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply) ☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)
This section does not apply to this project.
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

02	03	04	05	06	07	08	09	10
Area Description	Surface Type	Area Wattage Allowance (AWA)			Area Wattage Allowance (AWA)			Total General AWA + LWA (Watts)
		Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
EXTERIOR LIGHTING	Concrete	11953	0.03	358.59	1781	0.4	712.4	1070.99
						Initial Wattage Allowance for Entire Site (Watts):		350
						Total General Hardscape Allowance (Watts):		1420.99

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	MCC SAN ELIJO BUILDING 900 MODERNIZATION	Report Page:	(Page 4 of 7)
Project Address:	3333 Manchester Ave	Date Prepared:	11/10/2020

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail
SITE	Photocontrol	Yes	Exempt*	☐	☐
BUILDING	Photocontrol	Yes	NA: Wall <=24 ft	☐	☐

** NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

SITE	EXCEPTION 1 to Section 130.2(c)3: Luminaires with a maximum rated wattage of 40 watts each are not required to have motion sensing controls.

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DSA FILE NO. 37-C2 A# 04-119030

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION
3333 Manchester Ave, Cardiff, CA 92007

100% CONSTRUCTION DOCUMENS

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CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
--

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TITLE 24 COMPLIANCE FORMS

E702

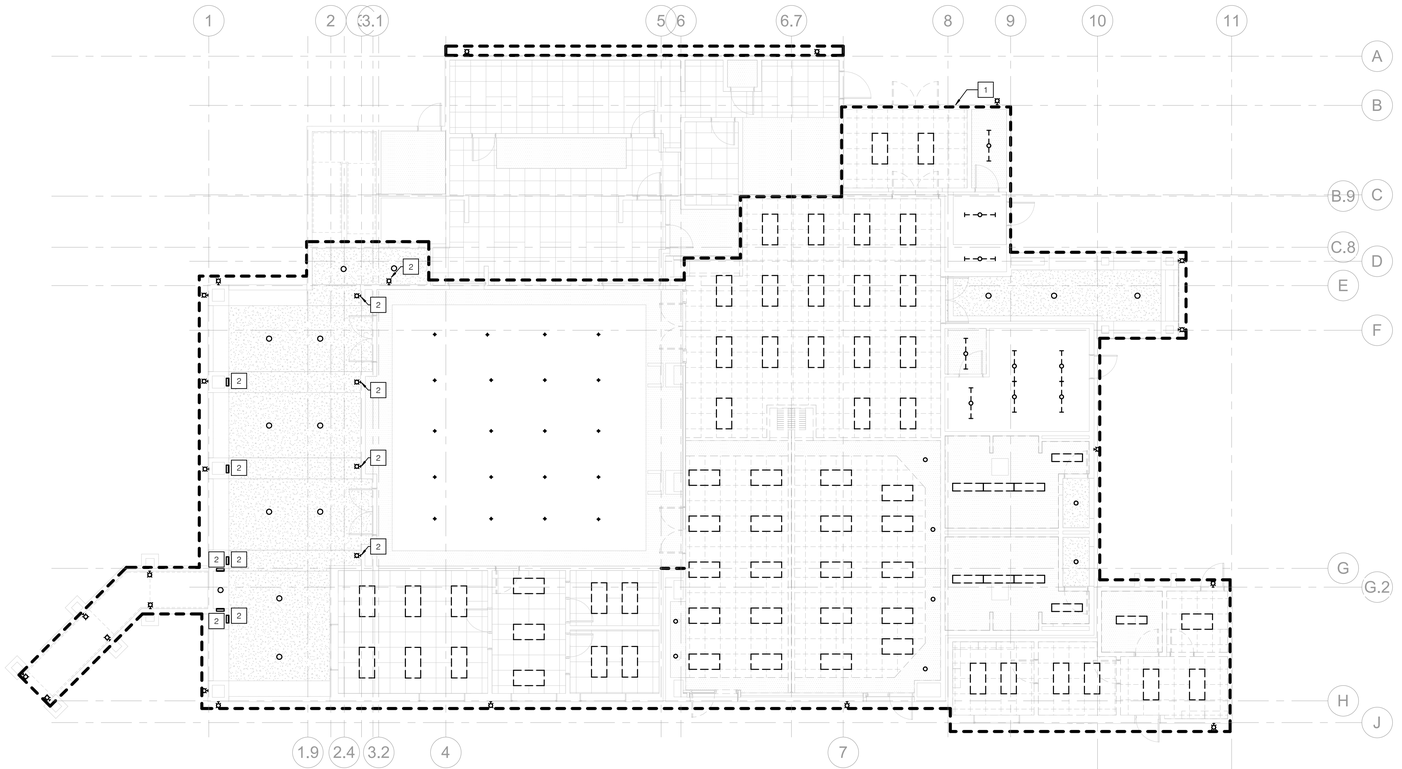
GENERAL NOTES

1. CONTRACTOR TO VERIFY CIRCUITING BEFORE REMOVAL OF ANY LIGHTING FIXTURES, JUNCTION BOXES, AND ANY OTHER ELECTRICAL DEVICE LOCATED WITHIN AREA OF WORK.
2. DEVICE QUANTITY SHOWN MAY DIFFER FROM EXISTING SITE CONDITIONS. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
3. LIGHTING FIXTURES SHOWN WITH DASHED LINES SHALL BE REMOVED ALONG WITH ALL CONDUIT, WIRE, AND CABLING ASSOCIATED WITH THE LIGHTING FIXTURE TO NEAREST JUNCTION BOX IN ACCESSIBLE CEILING SPACE. VERIFY WALLS TO BE DEMOLISHED WITH ARCHITECTURAL DRAWINGS.
4. WHERE CIRCUITS ARE UTILIZED IN THE SAME ROOM OR AREA, RE-USE AND EXTEND EXISTING CIRCUITRY FROM DEMOLISHED DEVICE TO NEW DEVICE.

NOTES

1 LIGHTING AND LIGHTING CONTROL DEVICES LOCATED WITHIN THE BOUNDARY SHALL BE DEMOLISHED. WHERE APPLICABLE, EXISTING CONDUITS, WIRING, AND JUNCTION BOXES SHALL BE RETAINED AND RE-USED FOR FUTURE WORK.

2 FIXTURES LOCATED ON SECOND FLOOR DINING LEVEL. COORDINATE FINAL LOCATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALL.



1 FIRST FLOOR LIGHTING PLAN

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

DSA FILE NO. 37-C2 A# 04-119030

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DEMOLITION - LIGHTING PLANS

ED201

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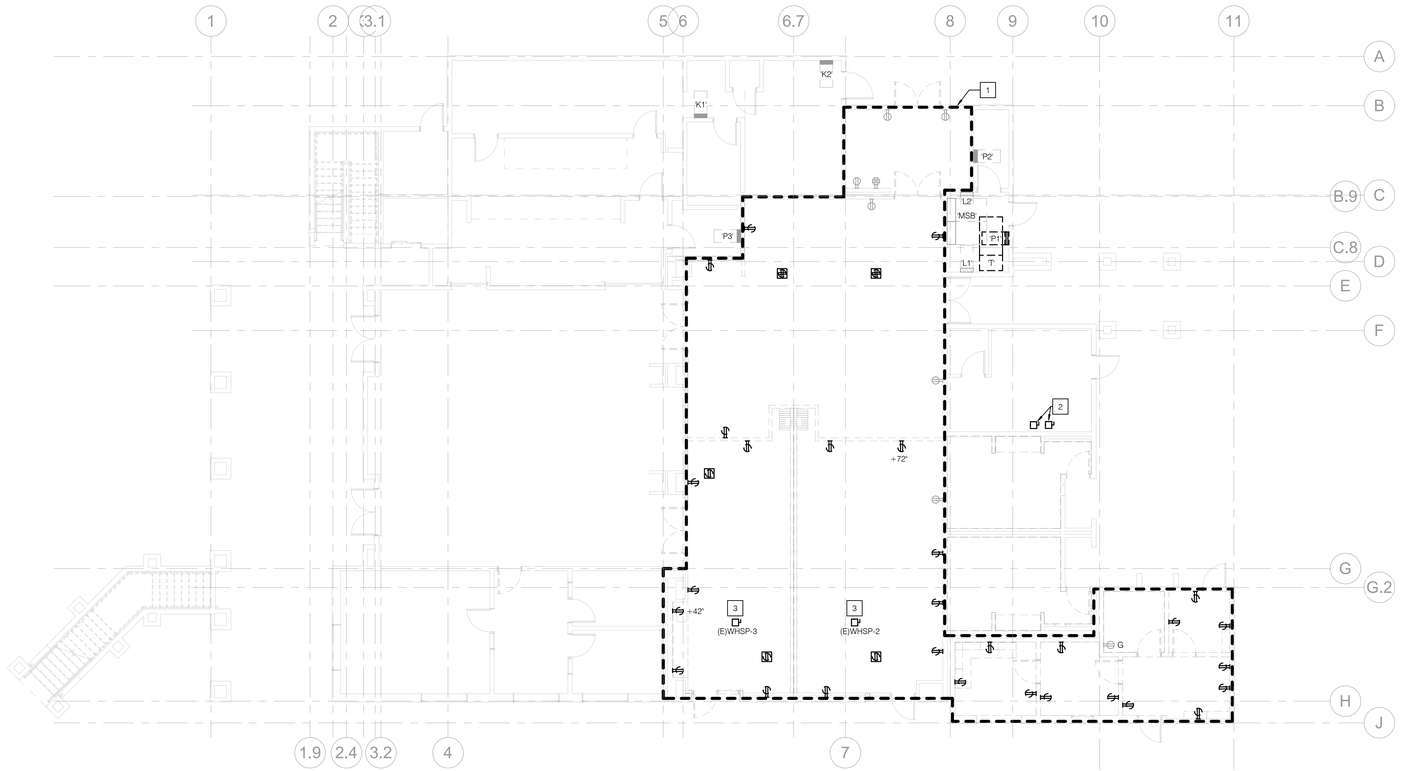
GENERAL NOTES

1. CONTRACTOR TO VERIFY CIRCUITING BEFORE REMOVAL OF ANY RECEPTACLES, JUNCTION BOXES, AND ANY OTHER ELECTRICAL DEVICE LOCATED WITHIN AREA OF WORK.
2. DEVICE QUANTITY SHOWN MAY DIFFER FROM EXISTING SITE CONDITIONS. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
3. DEVICES SHOWN DASHED SHALL BE REMOVED ALONG WITH ALL CONDUIT, WIRE, AND CABLING ASSOCIATED WITH THE DEVICE TO THE NEAREST JUNCTION BOX IN ACCESSIBLE CEILING SPACE. VERIFY WALLS TO BE DEMOLISHED WITH ARCHITECTURAL DRAWINGS. WHERE APPLICABLE, RETAIN AND RE-USE EXISTING DEVICES AND WIRING.
4. DEVICES SHOWN IN LIGHT GREY ARE EXISTING AND WILL REMAIN IN PLACE ALONG WITH EXISTING WIRING.
5. REFER TO SHEET E211 FOR ADDITIONAL INFORMATION REGARDING NEW WORK.
6. WHERE APPLICABLE, EXISTING CONDUIT AND WIRING WITHIN CEILING AND WALLS SHALL BE RETAINED AND RE-USED FOR NEW ELECTRICAL DEVICES.

NOTES

1. POWER DEVICES LOCATED WITHIN THE BOUNDARY SHALL BE DEMOLISHED. WHERE APPLICABLE, EXISTING CONDUITS, WIRING, AND JUNCTION BOXES SHALL BE RETAINED AND RE-USED FOR FUTURE WORK.
2. EXISTING DISCONNECT FOR THE COOLING SHALL BE DEMOLISHED. EXISTING CONDUITS AND WIRING SHALL BE RETAINED AND RE-USED FOR NEW COOLING TOWER.
3. EXISTING DISCONNECT FOR THE HEAT PUMPS SHALL BE DEMOLISHED. EXISTING CONDUITS AND WIRING SHALL BE RETAINED AND RE-USED FOR NEW EQUIPMENT.



1 FIRST FLOOR POWER PLAN

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

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ARCHITECTURE

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DEMOLITION - POWER PLANS

ED211

LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	PLUMBING FIXTURE CALLOUT, SEE PLUMBING PLANS FOR EXACT LOCATION AND REQUIREMENTS
	EQUIPMENT CALLOUT, SEE PLUMBING PLANS FOR EXACT LOCATION AND REQUIREMENTS
	SECTION CALLOUT
	POINT OF CONNECTION
	POINT OF DISCONNECTION
4" CHWR	NEW PIPE (SIZE-SERVICE)
	EXISTING PIPE/EQUIPMENT
	DEMOLISHED PIPE/EQUIPMENT
	SANITARY VENT
	DOMESTIC / INDUSTRIAL HOT WATER RETURN
	DOMESTIC / INDUSTRIAL HOT WATER SUPPLY
	DOMESTIC / INDUSTRIAL COLD WATER
	VALVE AT DROP
	VALVE AT RISE
	ELBOW DOWN
	PIPE TEE UP & DOWN OR ELBOW UP
	PIPE TEE DOWN
	PIPE TEE UP
	SOLENOID VALVE
	GATE VALVE
	BALL VALVE
	BALANCING VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE, SWING
	PLUG VALVE
	STRAINER, Y-TYPE
FM	FLOW METER
	BACKFLOW PREVENTER
	HOSE BIBB
	FLOOR DRAIN
	FLOOR SINK, 1/2 GRATE
	AREA DRAIN / INDUSTRIAL RECEPTOR
	SHUT-OFF VALVE IN YARDBOX
	FLOOR CLEANOUT
	CLEANOUT TO GRADE
	WALL CLEANOUT
	WATER HAMMER ARRESTOR
	TRAP PRIMER

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
@	AT
A/C	ABOVE CEILING
ABV	ABOVE
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFSR	AUTOMATIC FIRE SPRINKLER RISER
B/F	BELOW FLOOR
B/G	BELOW GRADE
BEL	BELOW
BFP	BACKFLOW PREVENTER
BTM	BOTTOM
BV	BALL VALVE
CI	CAST IRON
CIP	CAST IRON PIPE
CLG	CEILING
COTG	CLEAN-OUT TO GRADE
CU	CUBIC
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING(S)
EQUIP	EQUIPMENT
EWC	ELECTRICAL WATER COOLER
EXIST / (E)	EXISTING
F/A	FROM ABOVE
F/B	FROM BELOW
FCO	FLOOR CLEAN-OUT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FM	FORCE MAIN
FS	FLOOR SINK
FT	FEET
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
H&CW	HOT AND COLD WATER
H/L	HIGH LEVEL
HDR	HEADER
IN	INCHES
L or LAV	LAVATORY
MAX	MAXIMUM
MIN	MINIMUM
MTD	MOUNTED
NTS	NOT TO SCALE
OS & Y	OPEN SCREW AND YOKE
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECTION
PSI	POUNDS PER SQUARE INCH
RD	ROOF DRAIN
RI & C	ROUGH-IN AND CONNECT
SOV	SHUT-OFF VALVE
SQ	SQUARE
SS	SERVICE SINK
T/A	TO ABOVE
T/B	TO BELOW
TP	TRAP PRIMER
TYP	TYPICAL
U	URINAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VTR	VENT THRU ROOF
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEAN-OUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR

PIPE SYSTEM ABBREVIATIONS

ABBREVIATION	DESCRIPTION
CD	CONDENSATE DRAIN
CW	DOMESTIC COLD WATER
DI	DEIONIZED WATER
F	FIRE PROTECTION WATER SUPPLY
G	LOW PRESSURE NATURAL GAS
HPG	HIGH PRESSURE GAS
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
ICW	INDUSTRIAL COLD WATER
IHW	INDUSTRIAL HOT WATER
IHWR	INDUSTRIAL HOT WATER RETURN
IW	INDIRECT WASTE
MPG	MEDIUM PRESSURE GAS
OD	OVERFLOW DRAIN
S	SANITARY
SD	STORM DRAIN
SSD	SUB SOIL DRAINAGE
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
V	VENT
W	WASTE

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE 2019 EDITIONS OF THE CALIFORNIA BUILDING, MECHANICAL, PLUMBING, AND OTHER APPLICABLE FEDERAL, STATE, OR LOCAL CODES AS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION. IN CASE THE PLANS SHOW MORE STRINGENT REQUIREMENTS, THE PLANS SHALL GOVERN THE DESIGN, YET NOTHING ON THE DESIGN DOCUMENTS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE CODE(S) OR REGULATION(S).
2. SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
3. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
4. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS / SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.
5. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
6. CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL ALL PLUMBING SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND SPECIFIED HEREIN.
7. CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS, AND ATTAIN APPROVAL FROM THE MECHANICAL ENGINEER BEFORE PROCEEDING. AS-BUILT COPIES SHALL BE PROVIDED INDICATING ALL CHANGES / DEVIATIONS MADE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE COMPLETED AS-BUILT DRAWINGS IN THE LATEST VERSION OF AUTOCAD OR REVIT.
8. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE FACILITY TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE FACILITY INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
9. THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PECULIAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS. STRUCTURAL SUPPORTS, FOUNDATIONS, CONNECTED PIPING, VALVES, PIPE SUPPORTS AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED OR ADDITIONAL ITEMS REQUIRED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS, ALTERATIONS AND / OR ADDITIONS.
10. PIPING THROUGH FIRE RATED WALLS SHALL BE PER U.L. FIRE RESISTANCE SYSTEM NO. W1001. SEE ARCHITECTURAL PLANS FOR ALL WALL LOCATIONS.
11. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTERS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
12. ALL CONNECTIONS TO EXISTING SERVICES SHALL BE MADE SUCH THAT INTERRUPTION TIME WILL BE AS SHORT AS POSSIBLE. THE CONTRACTOR SHALL GIVE THE OWNER'S REPRESENTATIVE SUFFICIENT NOTICE OF SUCH INTERRUPTION AND THE ACTUAL SHUT DOWN TIME SHALL BE AT A TIME DESIGNATED BY THE OWNER'S REPRESENTATIVE.
13. ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS.
14. UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
15. ALL SOIL, WASTE, STORM DRAIN, ACID WASTE, GREASE WASTE AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE INDICATED.
16. BEFORE FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL EQUIPMENT AND FIXTURES. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD.
17. VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FLOOR DRAINS, ROOF, OVERFLOW DRAINS AND FLOOR SINKS.
18. PROVIDE AND INSTALL WATER HAMMER ARRESTORS IN THE FOLLOWING LOCATIONS (ONLY NON-FERROUS ARRESTORS MAY BE INSTALLED IN ANY WATER SYSTEM):
    A. WATER LINES TO LAVATORY HEADERS, WATER CLOSET AND URINAL HEADERS, SERVICE SINKS, KITCHEN SINKS, WASH FOUNTAINS, DRINKING FOUNTAINS, LABORATORIES WITH MEDICAL TYPE FAUCETS AND ON WASH SINKS HAVING 3 OR MORE STATIONS AND ALL OTHER QUICK CLOSING FIXTURE SUCH AS CLOTHES WASHERS, AS CLOSE TO FIXTURE AS POSSIBLE, BETWEEN LAST 2 FIXTURES WHEN 3 OR MORE FIXTURES, OTHER THAN THOSE LISTED IN "A" ABOVE, ARE SERVED BY A COMMON HEADER.
    B. WHEN ARRESTOR SHALL BE INSTALLED IN WALL OR FURRING, FURNISH WITH AN ACCESS PLATE LARGE ENOUGH TO PERMIT REMOVAL OF ARRESTOR. ACCESS PLATE SHALL BE A MINIMUM OF 2 INCHES LARGER IN EACH DIRECTION THAN ARRESTOR AND MINIMUM 12" X 12".
19. CLEANOUTS SHALL BE PROVIDED PER 2019 CPC SECTION 707.0 & 719.0 AND TO THE FOLLOWING LOCATIONS:
    A. AT EACH BASE OF ROOF DRAIN DOWNSPOUTS.
    B. AT EACH BASE OF WASTE STACK.
    C. AT EVERY 100 FT OF STRAIGHT RUN OF HORIZONTAL PIPING .
    D. AT EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING ONE HUNDRED THIRTY-FIVE (135) DEGREES.
    E. AT EACH HORIZONTAL DRAINAGE PIPE UPPER TERMINAL
    F. ABOVE EACH URINAL.
    G. BELOW EACH SINK.
20. ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET CALGREEN MANDATORY REQUIREMENT OF 20% REDUCED FLOW RATE SPECIFIED IN TABLE 5.303.2.3.
21. UNLESS SPECIFIED ON STRUCTURAL DRAWINGS, ANY ALTERATION OR MODIFICATIONS TO STRUCTURAL ELEMENTS BY CUTTING, DRILLING, BORING, BRACING, WELDING ETC. SHALL HAVE WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO START WORK.

SHEET INDEX

SHEET	DESCRIPTION
P001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
P002	SCHEDULES
P201	FLOOR PLANS
P301	ENLARGED PLANS
P601	DETAILS
PD201	DEMOLITION - FLOOR PLANS

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SIGNED: 09/30/2020

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LICENSED ARCHITECT — Mark A. Eagen — No. C-28195 — REN. 5-31-2021 — STATE OF CALIFORNIA

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GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX

P001

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FIXTURE SCHEDULE

MARK	FIXTURE	MIN. ROUGH-IN SIZES				FLOW RATE	REMARKS
		CW	HW	S OR W	V		
WC-1	WATER CLOSET (ACCESSIBLE)	1 ½"	-	4"	2"	1.28 GPF	KOHLER 'KINGSTON' MODEL K-4325 WALL-HUNG VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2 TOP SPUD. COMPLETE WITH SLOAN ROYAL 111-ESS-1.28-SF-TMO-HW ELECTRONIC SENSOR OPERATED, HARDWIRED, EXPOSED FLUSH VALVE @ 1.28 GPF, OLSONITE NO. 95SSCT HEAVY-DUTY ELONGATED OPEN FRONT TOILET SEAT WHITE IN COLOR WITH STAINLESS STEEL BOLT AND WATTS DRAINAGE HORIZONTAL, VERTICAL OR BACK-TO-BACK CLOSET CARRIER. MOUNT AT ACCESSIBLE HEIGHT. (REFER TO ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHTS). COORDINATE REQUIRED CLEARANCE FOR CARRIER INSTALLATION DURING LAYOUT OF WALL FRAMING. ELECTRICAL REQUIREMENTS: 120V.
WC-2	WATER CLOSET	1½"	-	4"	2"	1.28 GPF	SAME AS WC-1 EXCEPT MOUNTED AT STANDARD HEIGHT. (REFER TO ARCHITECTURAL DRAWINGS FOR NON-ACCESSIBLE MOUNTING HEIGHTS).
U-1	URINAL (ACCESSIBLE)	¾"	-	2"	1½"	0.125 GPF	KOHLER "BRANDON" MODEL K-4991-ET WALL HUNG, VITREOUS CHINA, 3/4" TOP SPUD. COMPLETE WITH SLOAN ROYAL MODEL 186-0.125-DBP-SF-ESS-TMO-HW , ELECTRONIC SENSOR-OPERATED, HARD-WIRED, EXPOSED FLUSHOMETER @ 0.125 GPF, WATTS DRAINAGE CARRIER CA-311 SERIES. MOUNT AT ACCESSIBLE HEIGHT. COORDINATE WITH ELECTRICAL ACCORDINGLY. SOLENOID OPERATOR: 24 VAC, COORDINATE LOCATION AND CLEARANCES IN THE FIELD. (REFER TO ARCH. DRAWINGS FOR ADA MOUNTING HEIGHTS).
U-2	URINAL	¾"	-	2"	1½"	0.125 GPF	SAME AS U-1 EXCEPT MOUNTED AT STANDARD HEIGHT. (REFER TO ARCHITECTURAL DRAWINGS FOR NON-ACCESSIBLE MOUNTING HEIGHTS).
L-1	LAVATORY COUNTER MTD. (ACCESSIBLE)	½"	½"	2"	1½"	0.5 GPM	KOHLER "BRYANT" MODEL K-2699, DROP-IN, VITREOUS CHINA, OVAL BASIN 20" x 17" SINGLE HOLE WITH FRONT OVERFLOW LAVATORY. COMPLETE WITH DYSON AIRBLADE "WASH+DRY" ELECTRONIC FAUCET MODEL WD04-SHORT, SENSOR-ACTIVATED, HARDWIRED WITH 0.5 GPM AERATOR, STAINLESS STEEL BRAIDED HOSES, THERMOSTATIC MIXING VALVE (ASSE 1070), McGUIRE MODEL PW155WC DRAIN, McGUIRE PRE-INSULATED P-TRAP WITH PRE-INSULATED FITTINGS AND DAHL-ECO, LOOSE KEY ANGLE STOPS 616SS-53-31, AND SLOAN SOAP DISPENSER ESD-300. COORDINATE ADDITIONAL HOLE ON COUNTER FOR SOAP DISPENSER. ELECTRICAL REQUIRMENTS: 120 V, 9.09 AMP, 60 HZ, DEDICATED 15 AMP CIRCUIT IS REQUIRED. MOUNT AT ACCESSIBLE HEIGHT (REFER TO ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHTS).
L-2	LAVATORY COUNTER MTD.	½"	½"	2"	1½"	0.5 GPM	SAME AS L-1 EXCEPT MOUNTED AT STANDARD HEIGHT. (REFER TO ARCHITECTURAL DRAWINGS FOR NON-ACCESSIBLE MOUNTING HEIGHTS).
L-3	LAVATORY WALL HUNG (ACCESSIBLE)	½"	½"	2"	1½"	0.5 GPM	KOHLER "KINGSTON" MODEL K-2007, VITREOUS CHINA, WALL HUNG, CONCEALED ARM CARRIER LAVATORY, SINGLE FAUCET HOLE. COMPLETE WITH DYSON AIRBLADE "WASH+DRY" ELECTRONIC FAUCET MODEL WD04-SHORT, SENSOR-ACTIVATED, HARDWIRED WITH 0.5 GPM AERATOR, STAINLESS STEEL BRAIDED HOSES, THERMOSTATIC MIXING VALVE (ASSE 1070), McGUIRE MODEL PW155WC DRAIN, McGUIRE PRE-INSULATED P-TRAP WITH PRE-INSULATED FITTINGS AND DAHL-ECO, LOOSE KEY ANGLE STOPS 616SS-53-31, ELECTRICAL REQUIRMENTS: 120 V, 9.09 AMP, 60 HZ, DEDICATED 15 AMP CIRCUIT IS REQUIRED. MOUNT AT ACCESSIBLE HEIGHT (REFER TO ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHTS).
S-1	SINK (ACCESSIBLE)	½"	½"	2"	1½"	1.5 GPM	JUST MODEL SL-ADA-2131-A-GR, SINGLE COMPARTMENT, 18 GAUGE, TYPE 316 STAINLESS STEEL, SELF-RIMMING, 21" x 31" x 5-1/2" DEEP, 4-HOLE CONFIGURATION, REAR-CENTER DRAIN. COMPLETE WITH CHICAGO FAUCET MODEL 2301-IE34ABCP WITH SIDE HAND SPRAY, ELKAY NO. LK35 STAINLESS STEEL BASKET STRAINER, DAHL-ECO MINI VALVES MODEL 611-53-31 STOPS WITH STAINLESS STEEL HOSES, CHICAGO 131-CABNF THERMOSTATIC MIXING VALVE FOR SCALD PROTECTION, MCGUIRE NO. PWV8089NCO PRE-WRAPPED P-TRAP. ALL ACCESSIBLE PIPING SHALL BE PRE-WRAPPED. PROVIDE REQUIRED PRE-WRAPPED KITS AS NEEDED. PROVIDE IN-SINKERATOR EVOLUTION SERIES 'COMPACT' MODEL GARBAGE DISPOSER WITH WALL SWITCH AND SINK ADAPTER. ELECTRICAL REQUIREMENTS: 3/4 H.P., 1725 RPM, 120V, 1PH, 9.2 AMPS, 60HZ.
DF-1	DRINKING FOUNTAIN	¾"	-	2"	1½"	1.1 GPM	ELKAY MODEL LZSTL8WS, BI-LEVEL, INCLUDED ELECTRIC WATER COOLER AND BOTTLE FILLING STATION. SUPPORT: WATER COOLER CARRIERS, INCLUDE VERTICAL, STEEL UPRIGHTS WITH FEET AND TIE RODS AND BEARING PLATES WITH MOUNTING STUDS MATCHING FIXTURE TO BE SUPPORTED. ELECTRICAL REQUIREMENTS: 120V, 60HZ, 5.0 FLA, 370 RATED AMPS.
MS-1	MOP SINK (FLR., CORNER MTD.)	¾"	¾"	3"	2"	2.2 GPM	KOHLER "WHITBY" MODEL K-6710 FLOOR CORNER SERVICE SINK WITH MODEL K-8940 REMOVABLE VINYL RIM GUARD AND GRID STRAINER. COMPLETE WITH CHICAGO FAUCET MODEL 540-LD897-SCP WALL MOUNTED FAUCET WITH ATMOSPHERIC VACUUM BREAKER, SPOUT WITH PAIL HOOK, WALL BRACE, STAINLESS STEEL MOP HANGER BRACKET, STERN WILLIAMS MODEL T-35 HEAVY DUTY HOSE (36" LONG) W/ WALL BRACE AND STERN WILLIAMS MODEL BP-1-28 STAINLESS STEEL SPLASH GUARD PANELS.
HB-1	HOSE BIBB	¾"	-	-	-		ACORN NO. 8151, RECESSED WALL MOUNTED HOSE BOX WITH WALL FLANGE AND VACUUM BREAKER. CARTRIDGE-OPERATED TYPE WITH VANDAL-RESISTANT LOCKSHIELD, REMOVABLE LOOSE KEY WHEEL HANDLE AND SCREWDRIVER OPERATED STOP.
WCO-1	WALL CLEANOUT	-	-	SEE PLANS	-		WATTS MODEL CO-590-RD THREADED BRASS CLEANOUT PLUG WITH COUNTERSUNK HEAD, STAINLESS STEEL ACCESS COVER AND VANDAL PROOF STAINLESS STEEL SCREW. WATTS MODEL CO-460-RD FOR STACK CLEANOUT APPLICATIONS. REFER TO DETAIL 5/P602.
WHA-1	WATER HAMMER ARRESTOR	SEE PLANS	-	-	-		WATTS 'SS' SERIES, STAINLESS STEEL BELLOWS OPERATED TYPE WATER HAMMER ARRESTORS. INSTALLATION AND SIZING SHALL CONFORM TO PDI WH-201 STANDARD. PROVIDE BEHIND ACCESS PANELS WHERE REQUIRED.
WM-1	WATER METER (BLDG. MONITORING)	2"	-	-	-		SENSUS "OMNI C2S" MODEL WDS-10000-01. MIN. FLOW: 0.25 GPM. FLOW RANGE @ 4.3 PSI = 160 GPM. MAXIMUM OPERATING PRESSURE 200 PSI; AWWA CLASS 125 OVAL BOLT FLANGE FULLY ELECTRONIC SEALED REGISTER WITH PROGRAMMABLE REGISTER; 304 STAINLESS STEEL MAINCASE; STAINLESS STEEL STRAINER SCREEN AND STRAINER COVER. PROVIDE ALL REQUIRED DEVICES/COMPONENTS TO INTERFACE WITH BUILDING ENERGY MANAGEMENT SYSTEM. COORDINATE WITH CONTROLS CONTRACTOR. REFER TO DETAIL 2/P601
GM-1	SUB-GAS METER (BLDG. MONITORING)	-	-	-	-		SIERRA INSTRUMENTS MODEL 620S-BT 'BOILER TRAK' SERIES. COMPLETE WITH 0-18 VDC LINEAR OUTPUT SIGNAL, DIGITAL DISPLAY, MODBUS DIGITAL COMMUNICATION AND NEMA 4X. SIZE SAME AS PIPE. WIRING TO BE INSTALLED BY CONTROLS CONTRACTOR. COORDINATE WITH CONTROLS CONTRACTOR FOR CONNECTION OF METER TO BMS FOR DATA TRANSFER. REFER TO DETAIL 5/P601
FD-1	FLOOR DRAIN	½"	-	2"	1½"		ZURN ZB415-BZ1-DP-NL-P, DURA-COATED CAST IRON, POLISHED BRONZE TOP, BOTTOM OUTLET, STAINLESS STEEL DECK PLATE, 5-INCH DIAMETER TYPE B LIGHT DUTY STRAINER, 1/2 INCH TRAP PRIMER CONNECTION, NEO-LOC OUTLET.
VC-1	VENT CAP	SEE PLANS	-	-	-		WATTS MODEL RD-680-VC EPOXY COATED CAST IRON VENT CAP WITH VANDAL PROOF COVER. PROVIDE AT ALL VENT THRU ROOF PENETRATIONS.

NOTES:
A. ALL FIXTURES SHALL BE PROVIDED WITH MINIMUM ROUGH-IN CONNECTIONS AS INDICATED IN THIS SCHEDULE OR PER MANUFACTURERS RECOMMENDATIONS. THE PLUMBING CONTRACTOR SHALL RUN ALL SERVICE LINES, ROUGH-IN AND MAKE FINAL CONNECTIONS TO ALL FIXTURES. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL TRIMS, FLUSH VALVES, TAILPIECES, STRAINERS, P-TRAPS, TRAP ARMS, HOT & COLD WATER STOPS AND FAUCETS AS REQUIRED.
B. ALL FIXTURES AND/OR COMPONENTS AS PART OF THE PLUMBING SYSTEM SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
C. OPENINGS IN GRATINGS OR STRAINERS LOCATED IN PEDESTRIAN WAYS OR IN PATH OF TRAVEL (P.O.T.) SHALL NOT ALLOW PASSAGES OF A SPHERE MORE THAN 1/2" DIAMETER. ELONGATED OPENINGS SHALL BE PLACED SO THAT LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL IN COMPLIANCE WITH SECTION 11B-302.3.

PIPING MATERIALS

1.	DRAIN PIPING SEWER WASTE & STORM BELOW GRADE:	PVC SCHEDULE 40, SOLID-WALL PIPE AND DWV FITTINGS CONFORMING TO ASTM D1785 AND ASTM D2665. INSTALL PVC PIPING IN ACCORDANCE WITH ASTM D2321 AND ASTM F1668.
2.	DRAIN PIPING SEWER WASTE & STORM ABOVE GRADE:	PVC SCHEDULE 40, SOLID-WALL PIPE AND DWV FITTINGS CONFORMING TO ASTM D1785 AND ASTM D2665. INSTALL PVC PIPING IN ACCORDANCE WITH ASTM D2321 AND ASTM F1668.
3.	VENT PIPE FOR SEWER / WASTE ABOVE GRADE:	PVC SCHEDULE 40, SOLID-WALL PIPE AND DWV FITTINGS CONFORMING TO ASTM D1785 AND ASTM D2665. INSTALL PVC PIPING IN ACCORDANCE WITH ASTM D2321 AND ASTM F1668.
4.	DOMESTIC WATER PIPING BELOW GRADE:	TYPE 'K' COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER FITTINGS AND LEAD-FREE BRAZED JOINTS. AVOID UNNECESSARY JOINTS BELOW SLAB. PIPE WRAP ALL UNDERGROUND PIPING.
5.	DOMESTIC WATER PIPING ABOVE GRADE:	TYPE 'L' COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS AND LEAD FREE-SOLDER JOINTS.
6.	CONDENSATE DRAIN PIPING:	TYPE 'L' COPPER TUBING, HARD DRAWN CONFORMING TO ASTM B 88, WITH WROUGHT COPPER SOLDER SWEAT FITTINGS AND LEAD-FREE SOLDER JOINTS. ALL CONDENSATE DRAIN PIPING WITHIN THE BUILDING SHALL BE INSULATED.
7.	INSULATION OF DOMESTIC HOT WATER AND CONDENSATE DRAIN PIPING:	GLASS FIBER PIPE INSULATION WITH FACTORY-APPLIED JACKET CONFORMING TO ASTM C547. 1-INCH THICK FOR PIPE SIZES 1" & SMALLER. 1½-INCH THICK FOR PIPE SIZES 1¼" INCHES & LARGER. SEAL ALL JOINTS WITH THE FACTORY-APPLIED, SELF-SEAL LAP AND BUTT STRIPS. JOHNS MANVILLE MICRO-LOK HP OR EQUAL.
8.	GAS PIPING:	SCHEDULE 40 BLACK STEEL PIPE CONFORMING TO ASTM A 53 WITH 150 PSIG MALLEABLE IRON THREADED FITTINGS. WELDED JOINTS FOR PIPE SIZES 2½" AND LARGER OR WELDED THROUGHOUT WHEN USED FOR MEDIUM PRESSURE. OUTDOOR PIPING EXPOSED TO ATMOSPHERE SHALL BE PAINTED WITH RUST INHIBITING PAINT.
9.	GAS PIPING BELOW GRADE: (EXTERIOR SITE DISTRIBUTION)	POLYETHYLENE PIPE (PE) YELLOW IN COLOR CONFORMING TO ASTM D 2513, SDR-11 AND IAPMO INSTALLATION STANDARD IS-12 WITH PE FITTINGS CONFORMING TO ASTM D-2683, SOCKET-FUSION TYPE OR ASTM D-3261 WITH DIMENSIONS MATCHING PE PIPE. P.E. TRANSITION FITTINGS, FACTORY-FABRICATED FITTINGS WITH PE COMPLYING WITH ASTM D-2513, SDR-11. PROTECTIVE COATING FOR UNDERGROUND PIPING, FACTORY APPLIED, THREE-LAYER COATING OF EPOXY, ADHESIVE AND PE.
10.	PIPE PROTECTION: ALL UNDERGROUND METALLIC PIPE WETHER BURIED OR ENCASED SHALL BE WRAPPED WITH ANTI-CORROSIVE 20 MIL PVC TAPE AND PRIMED OR INSTALLED IN 8 MIL POLYETHYLENE SLEEVE CONFORMING TO ASTM D-1248 AND/OR ANSI/AWWA C105/A21.5.	
11.	PIPE PROTECTION: PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS JOINING DISSIMILAR METALS.	
12.	TRACER WIRE: ALL UNDERGROUND PLASTIC PIPE SHALL BE INSTALLED WITH BARE COPPER WIRE, TYPE TW, SIZE AWG#12 PLACED AND SECURED ON TO THE TOP OF THE MAINS AND BRANCHES WITH ALL WIRE TO WIRE CONNECTIONS SOLDERED FOR CONTINUITY.	
13.	QUALITY ASSURANCE: THE PIPING SYSTEMS SHALL BE CONSTRUCTED FROM MATERIALS EXTRUDED AND MOLDED USING THE SAME COMPOUND MANUFACTURER.	
14.	QUALITY ASSURANCE: BOTH THE PIPE AND FITTINGS SHALL BE MANUFACTURED IN NORTH AMERICA AND MEET OR EXCEED THE REQUIREMENTS SET FORTH BY THE AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) AND ANSI/NSF STANDARDS 14 AND 61.	

FIXTURE LOAD CALCULATION

BASIS: 2019 CPC APPENDIX 'A' TABLE A-2 (WATER SUPPLY FIXTURE UNITS) & CHAPTER 7 TABLE 7-3 (DRAINAGE FIXTURE UNIT VALUES). VOLUME BASED ON 'PUBLIC' VALUES

FIXTURE	QTY.	COLD WATER		HOT WATER		DRAINAGE/WASTE	
		FIXTURE UNITS	TOTAL FU	FIXTURE UNITS	TOTAL FU	FIXTURE UNITS	TOTAL FU
WATER CLOSET	8	5.0	40.0			4.0	32.0
URINAL	2	4.0	8.0			2.0	4.0
LAVATORY	6	1.0	6.0	0.75	4.5	1.0	6.0
SINK	4	1.5	6.0	0.75	3.0	1.0	4.0
MOP SINK	1	3.0	3.0	2.5	2.5	3.0	3.0
DRINKING FOUNTAIN	1	1.0	1.0			1.0	1.0
TOTAL FIXTURE UNITS			64.0		10.00		50.0
TOTAL DEMAND - GPM			57		8		

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MCC SAN ELIJO BUILDING 900 MODERNIZATION
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REN. 5-31-2021
STATE OF CALIFORNIA

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MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
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SCHEDULES

P002

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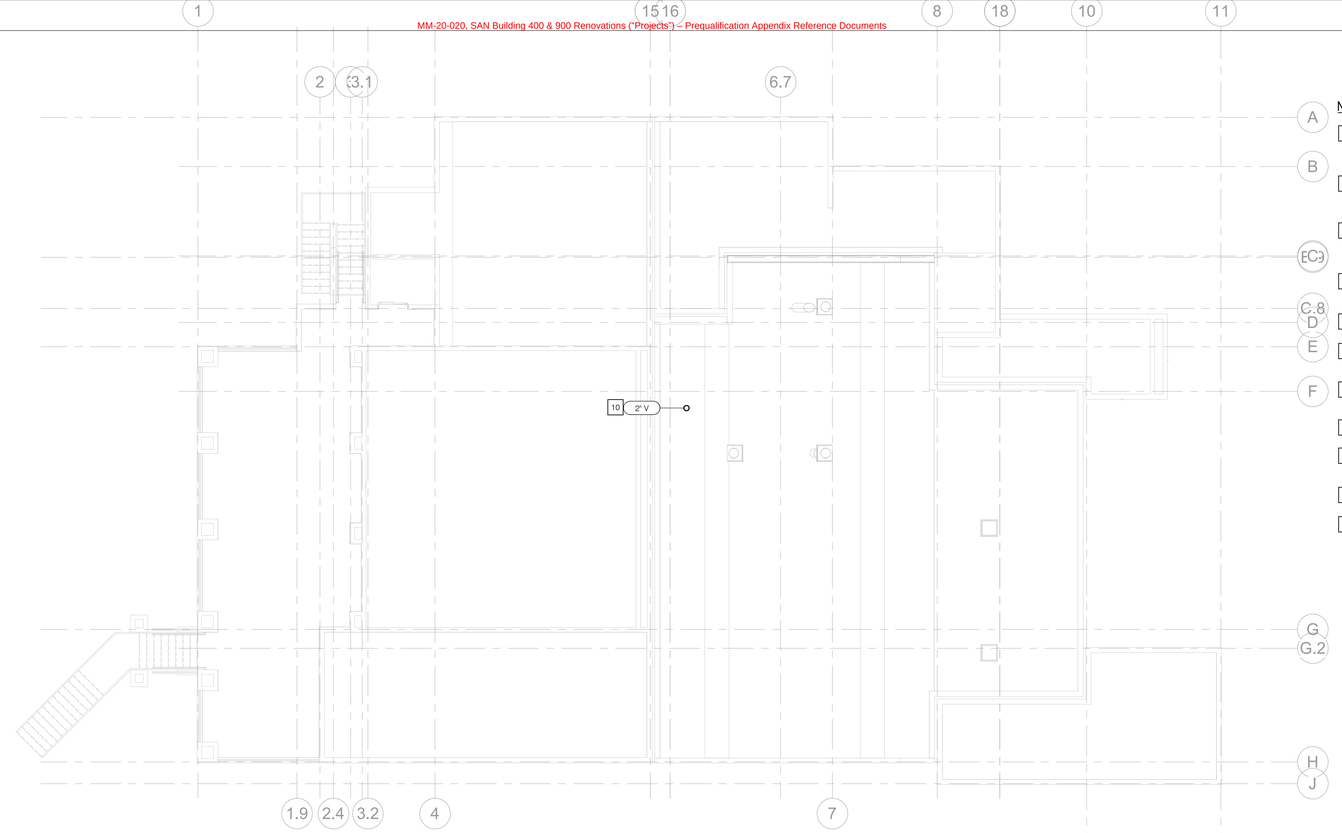
MM-20-020, SAN Building 400 & 900 Renovations ("Projects") – Prequalification Appendix Reference Documents

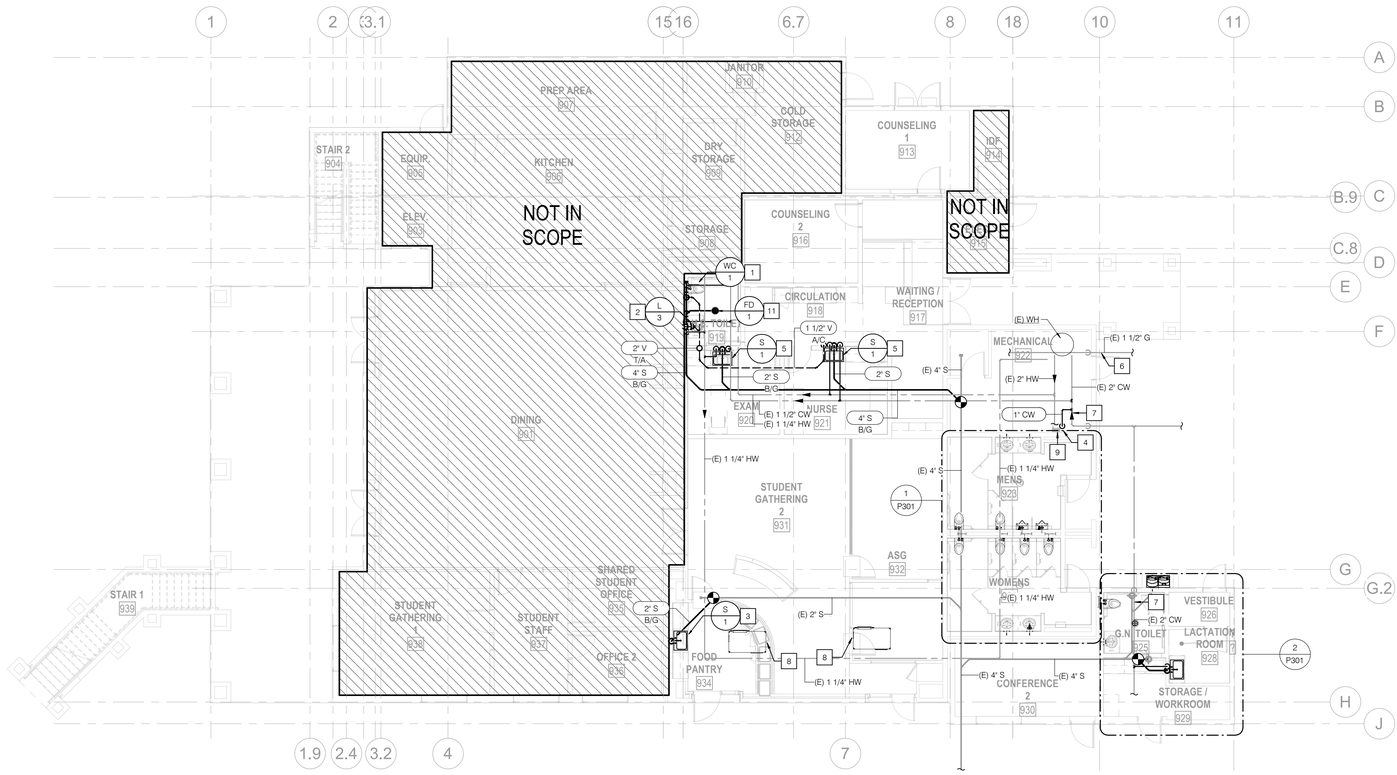


NOTES

1. REMOVE AND REPLACE EXISTING FIXTURE AND RECONNECT TO EXISTING PLUMBING UTILITIES WITHIN WALL. PROVIDE 1-1/2" CW, 4"S DOWN AND 2" V TO SERVE WATER CLOSET (WC-1 & WC-2).
2. REMOVE AND REPLACE EXISTING FIXTURE AND RECONNECT TO EXISTING PLUMBING UTILITIES WITHIN WALL. PROVIDE 1/2" CW, 1/2" HW, 2"S DOWN AND 1-1/2"V UP TO SERVE LAVATORY (L-1, L-2 & L-3).
3. REMOVE AND REPLACE EXISTING FIXTURE AND RECONNECT TO EXISTING PLUMBING UTILITIES WITHIN WALL. PROVIDE 1/2" CW, 1/2" HW, 2"S DOWN AND 1-1/2"V UP TO SERVE SINK (S-1).
4. PROVIDE 1"CW DOWN TO SERVE MECHANICAL COOLING TOWER. REFER TO SHEET M201 FOR EXACT LOCATION OF EQUIPMENT.
5. PROVIDE 1/2" CW, 1/2" HW, 2"S DOWN AND 1-1/2"V UP TO SERVE NEW SINK (S-1).
6. PROVIDE GAS SUBMETER (GM-1). REFER TO PLUMBING SCHEDULE ON P002 FOR INSTALLATION REQUIREMENTS.
7. PROVIDE WATER METER (WM-1). REFER TO PLUMBING SCHEDULE ON P002 FOR INSTALLATION REQUIREMENTS.
8. CONNECT NEW 3/4"CD DRAINAGE PIPE INTO EXISTING CONDENSATE DRAIN IN CEILING AT SAME LOCATION.
9. (E) FLOOR SINK. CONTRACTOR TO TERMINATE PRIMARY & OVERFLOW DRAINS FROM NEW COOLING TOWER (CT-1) TO EXISTING FLOOR SINK WITH 1" AIR GAP.
10. PROVIDE NEW 2" VENT THRU ROOF WITH (VC-1) VENT CAP.
11. PROVIDE TRAP PRIMER (TP-1) BEHIND ACCESS PANEL IN WALL TO SERVE FLOOR DRAIN (FD-1).

2 SECOND FLOOR PLUMBING PLAN

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



1 FIRST FLOOR PLUMBING PLAN

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

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ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

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PROJECT NUMBER
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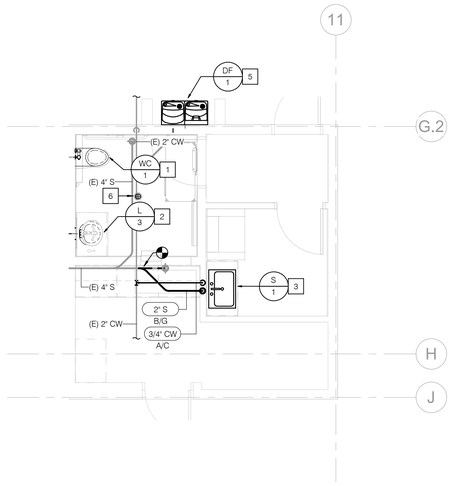
FLOOR PLANS

P201

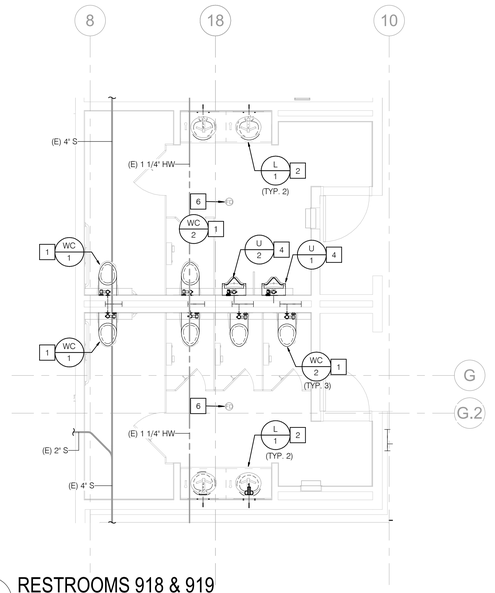
NOTES

1. REMOVE AND REPLACE EXISTING FIXTURE AND RECONNECT TO EXISTING PLUMBING UTILITIES WITHIN WALL. PROVIDE 1-1/2" CW, 4"S DOWN AND 2" V TO SERVE WATER CLOSET (WC-1 & WC-2).
2. REMOVE AND REPLACE EXISTING FIXTURE AND RECONNECT TO EXISTING PLUMBING UTILITIES WITHIN WALL. PROVIDE 1/2" CW, 1/2" HW, 2"S DOWN AND 1-1/2"V UP TO SERVE LAVATORY (L-1, L-2 & L-3).
3. REMOVE AND REPLACE EXISTING FIXTURE AND RECONNECT TO EXISTING PLUMBING UTILITIES WITHIN WALL. PROVIDE 1/2" CW, 1/2" HW, 2"S DOWN AND 1-1/2"V UP TO SERVE SINK (S-1).
4. REMOVE AND REPLACE EXISTING FIXTURE AND RECONNECT TO EXISTING PLUMBING UTILITIES WITHIN WALL. PROVIDE 3/4" CW, 2"S DOWN AND 1-1/2" V UP TO SERVE URINAL (U-1 & U-2).
5. REMOVE AND REPLACE EXISTING FIXTURE AND RECONNECT TO EXISTING PLUMBING UTILITIES WITHIN WALL. PROVIDE 1/2" CW, 2"S DOWN AND 1-1/2" V UP TO SERVE DRINKING FOUNTAIN (DF-1).
6. EXISTING FLOOR DRAIN TO REMAIN. PROTECT IN PLACE.



2 RESTROOM 920, JANITOR RM 921 & LACT. RM. 922

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



1 RESTROOMS 918 & 919

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

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REN. 5-31-2021
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ENLARGED PLANS

P301

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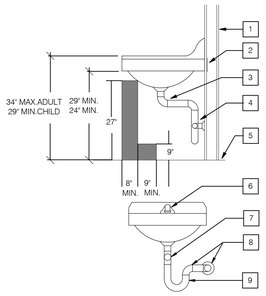
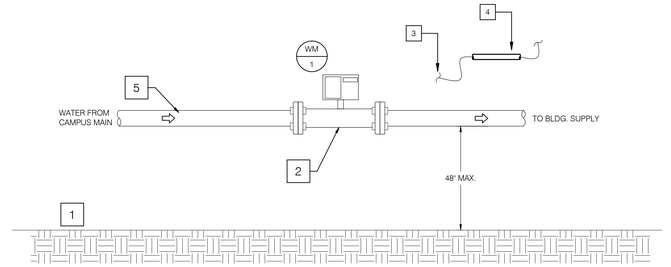


NOTES			
1	FINISHED WALL.	6	ADA COMPLIANT.
2	BACKING PLATE BY CONTRACTOR.	7	OFF-SET GRID.
3	OFF-SET GRID STRAINER.	8	17 GAUGE LA PATTERN CAST BRASS 'P-TRAP' WITH SECURED ESCUTCHEON.
4	'P-TRAP' PARALLEL TO WALL.	9	INSULATE EXPOSED PIPING WITH "TRUEBRO" OR EQUAL.
5	FINISH FLOOR.		

4 A.D.A. SINK/LAVATORY COMPLIANCE
NO SCALE

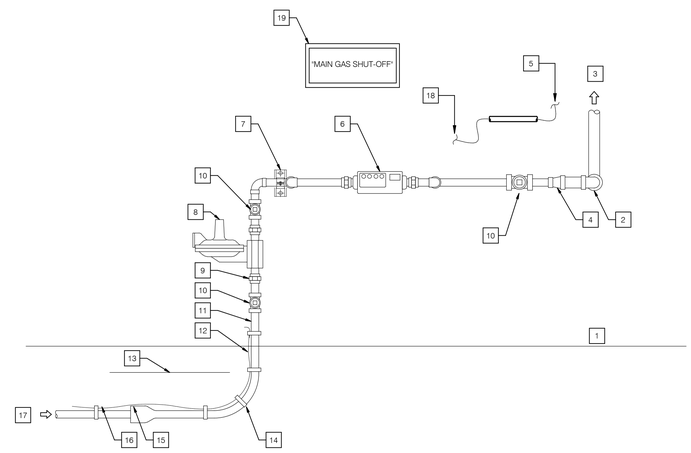


DETAIL NOTES:

1. VERIFY COMMUNICATION PROTOCOL PRIOR TO ORDERING METER.
2. COORDINATE WITH CONTROLS CONTRACTOR FOR CONNECTION OF METER TO BMS FOR DATA TRANSFER. ALL WIRING TO BE INSTALLED BY CONTROLS CONTRACTOR.
3. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND CONDUIT ROUTING. ALL CONDUIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR.

NOTES			
1	FINISHED FLOOR LEVEL	4	3/4" CONDUIT W/ PULL-STRING TO BDF, IDF OR TELECOM ROOM. (BY ELECTRICAL CONTRACTOR)
2	WATER METER WITH ELECTRONIC REGISTER	5	SEE PLANS FOR SIZE
3	LINK TO BMS FOR REMOTE READING/MONITORING (BY CONTROLS CONTRACTOR)		

2 WATER METER
NO SCALE

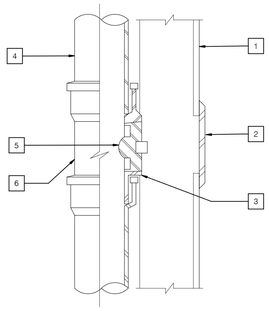


NOTE:

1. SEE PLANS FOR LOCATION.
2. PROVIDE WALL MOUNTED SIGN TO READ "MAIN GAS SHUT-OFF"
3. COORDINATE WITH CONTROLS CONTRACTOR FOR CONNECTION OF METER TO BMS FOR DATA TRANSFER. ALL WIRING TO BE INSTALLED BY CONTROLS CONTRACTOR.
4. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND CONDUIT ROUTING. ALL CONDUIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
5. VERIFY COMMUNICATION PROTOCOL PRIOR TO ORDERING METER.

DETAIL KEYNOTES			
1	FINISHED GRADE	10	ISOLATION VALVE (TYP.)
2	LOW PRESSURE GAS INTO BLDG.	11	EPOXY COATED STEEL
3	LOW PRESSURE GAS TO SERVE EQUIP/APPLICANCES	12	TRACER WIRE COPPER (THW.) TO BE EXTENDED
4	REDUCER	13	WARNING TAPE 8" to 12" BELOW GRADE
5	3/4" CONDUIT W/ PULL-STRING TO BDF, IDF OR TELECOM RM. (BY ELECTRICAL CONTRACTOR)	14	TAPE (FASTENER)
6	GAS SUB-METER (GM-1)	15	PE TO STEEL TRANSITION
7	UNISTRUT TYPE BRACKET. SECURE TO EXTERIOR WALL WITH ANCHOR BOLTS (TYP)	16	P.E. PIPE
8	EXISTING GAS PRESSURE REGULATOR	17	MEDIUM PRESSURE GAS
9	DIELECTRIC UNION	18	LINK TO BMS FOR REMOTE READING/MONITORING (BY CONTROLS CONTRACTOR).
		19	"MAIN GAS SHUT-OFF" SIGN

5 GAS PRESSURE REGULATOR ASSEMBLY
NO SCALE



NOTES	
1	FINISHED WALL SURFACE.
2	STAINLESS STEEL ACCESS COVER PLATE WITH COUNTERSUNK SECURING SCREW.
3	TAPER THREAD-BRONZE PLUG.
4	PIPE AS INDICATED ON PLANS.
5	THREADED CLEANOUT PLUG.
6	CLEANOUT TEE.

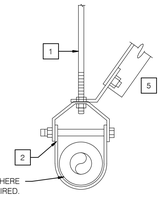
NOTE:

A. ACCESS COVER SIZE VARIOUS BASED ON PIPE SIZE

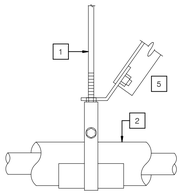
B. ANCHOR SCREW IS 3-1/2" LONG

PIPE SIZE	COVER SIZE
2"	6"
3"	8"
4"	8"
6"	10"

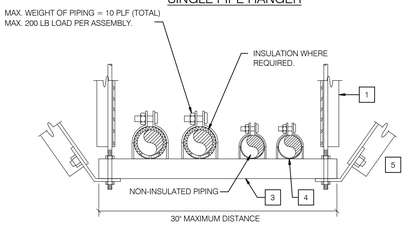
3 WALL CLEANOUT
NO SCALE

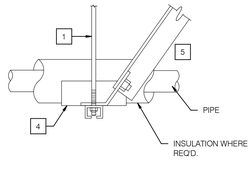


SINGLE PIPE HANGER



SINGLE PIPE HANGER





PIPING WEIGHT

NOMINAL PIPE SIZE (IN)	WEIGHT FILLED WITH WATER (Lbs/Ft)	WEIGHT FILLED WITH WATER + INSULATION (Lbs/Ft)
1/2"	0.39	0.99
3/4"	0.66	1.36
1"	1.01	1.80
1-1/4"	1.43	-
1-1/2"	1.91	-
2"	3.09	-

NOTES

1. 1/2" Ø HANGER ROD, AT MAXIMUM 20'-0" ON CENTER WELDED TO 2"X2"X16 GAUGE VERTICAL ANGLE. ATTACH TO STRUCTURE ABOVE PER DETAIL 4/S0.12.
2. PROVIDE A SECTION OF HIGH COMPRESSION STRENGTH INSULATION AT EACH HANGER POINT. INSULATION MAY BE HALF ROUND OR FULL ROUND & EXTENDED 2" BEYOND GALV. SHIELD EA. WAY.
3. MULTIPLE PIPES SUPPORTED ONTO UNISTRUT P1000 CHANNEL. PROVIDE INSULATED HOT WATER PIPING ON ROLLERS AND CHILLED WATER PIPING SECURED WITH PIPE CLAMPS. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS FOR SUPPORTS AND FOR PIPING MATERIAL REQUIREMENTS.
4. PROVIDE PIPE SADDLE BETWEEN PIPE AND HANGER.
5. PROVIDE DIAGONAL BRACE FOR ALL PIPING. BRACE SHALL BE MINIMUM P1000 UNISTRUT, INSTALLED AT MAXIMUM 20'-0" ON CENTER OR WITHIN 2'-0" OF ELBOWS. CONNECTION TO STRUCTURE PER DETAIL 10/S0.12.

GENERAL NOTES

A. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL ANCHORAGE REQUIREMENTS.

B. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CORD OF JOISTS OR BEAMS.

C. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.

1 PIPE HANGER
NO SCALE

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PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

3333 Manchester Ave, Cardiff, CA 92007

100% CONSTRUCTION DOCUMENS

MIRACOSTA COLLEGE

CONSULTANT

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ENGINEER

REGISTERED PROFESSIONAL ENGINEER
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SIGNED: 09/30/2020

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Mark A. Eacret
No. C-28195
REN. 5-31-2021
STATE OF CALIFORNIA

CLIENT

MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
--

DATE: 2020/11/10

DRAWN BY: -

CHECKED BY: -

REVISIONS

No.	Description	Date

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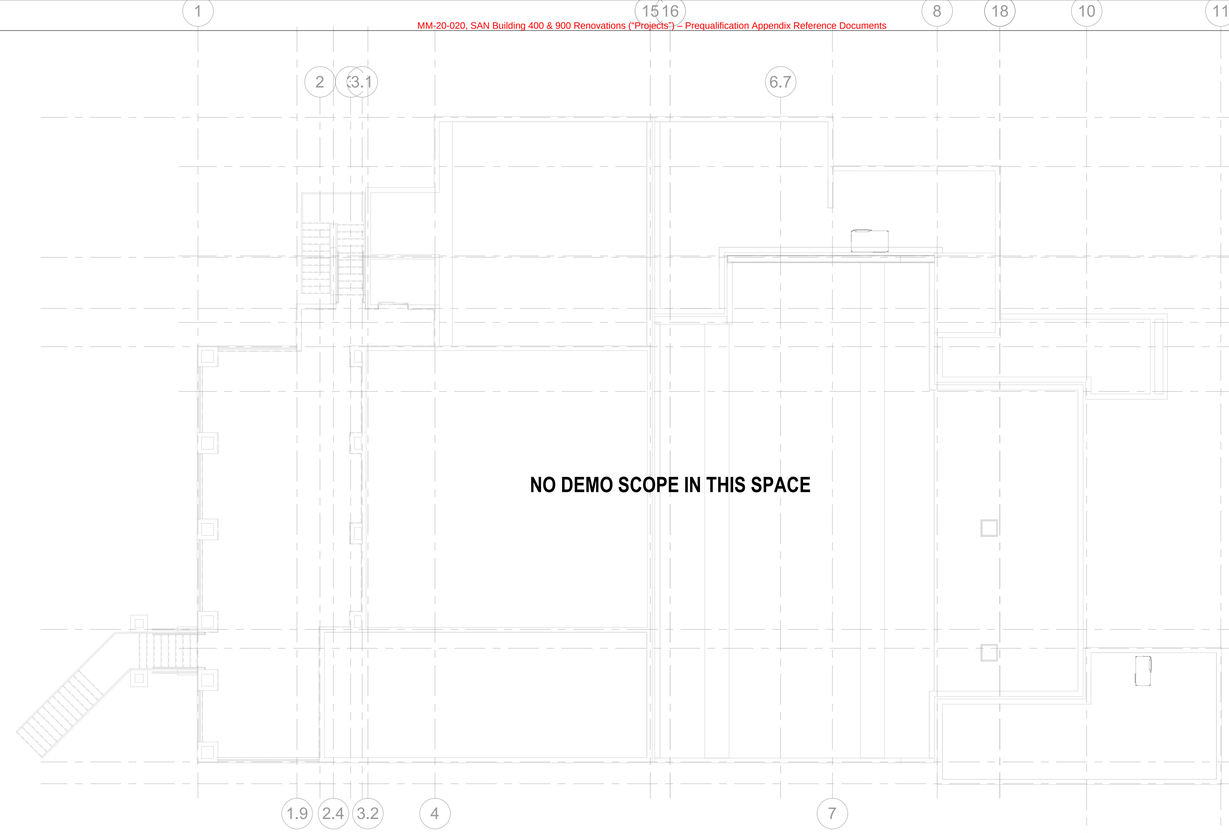
DETAILS

P601

MM-20-020, SAN Building 400 & 900 Renovations ("Projects") – Prequalification Appendix Reference Documents

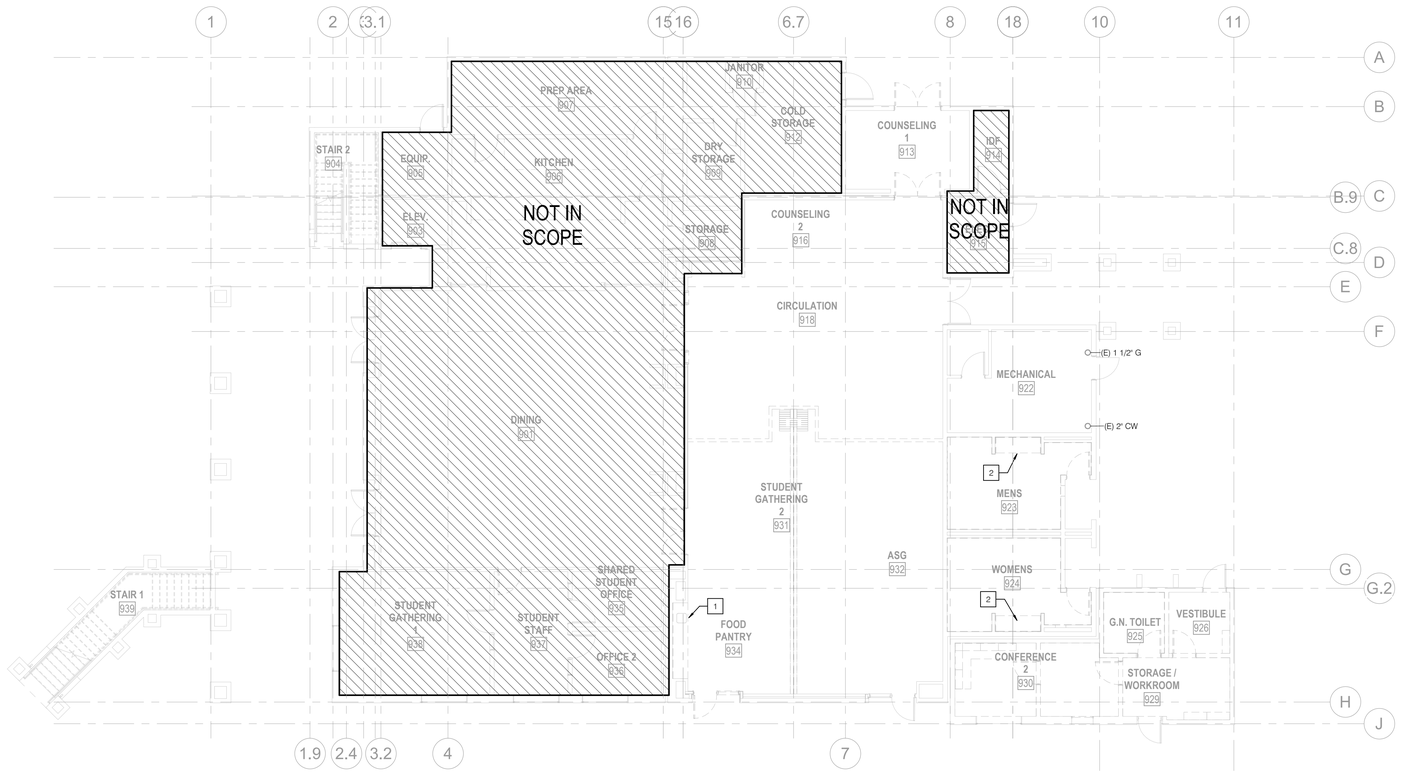


NOTES

1. DEMO & REMOVE EXISTING SINK AND ASSOCIATED TRIM.
2. DEMO & REMOVE EXISTING LAVATORY AND ASSOCIATED TRIM. CUT & CAP PLUMBING UTLITIES BEHIND WALL.

2 SECOND FLOOR PLUMBING PLAN

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



1 FIRST FLOOR PLUMBING PLAN

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

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CONSULTANT

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San Diego | San Jose

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ENGINEER

SIGNED 09/30/2020

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No. C-28195
REN. 5-31-2021
STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
-

DATE:	2020/11/10
DRAWN BY:	-
CHECKED BY:	-

REVISIONS

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100% CONSTRUCTION DOCUMENS

DEMOLITION - FLOOR PLANS

PD201

GENERAL LEGEND

SYMBOL	DESCRIPTION
-	NOTE CALLOUT
- / -	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
1	BUILDING NUMBER
	CONCEALED CONDUIT
	EXPOSED CONDUIT
	UNDERGROUND CONDUIT
	FUTURE CONDUIT
	CABLE TO BE REMOVED
	EXISTING CABLE TO BE ABANDONED OR RETURNED
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT WITH CAP

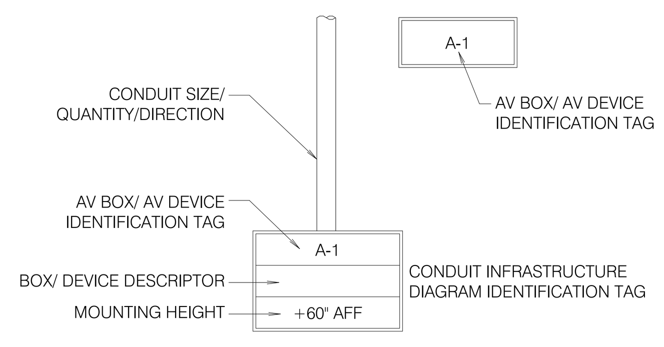
TELECOM LEGEND

SYMBOL	DESCRIPTION
	VOICE / DATA OUTLET - WALL MOUNTED. PROVIDE AND INSTALL (2) CAT 6 CABLES / JACKS TERMINATED IN A 4-PORT FACEPLATE AT 18" AFF. PROVIDE AND INSTALL 4S JBOX WITH SINGLE GANG MUDRING AND 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION. PROVIDE BUSHINGS AND PULLSTRING, U.O.N.
X	DATA OUTLET - WALL MOUNTED. PROVIDE AND INSTALL (X) QUANTITY OF CAT 6 CABLES / JACKS TERMINATED IN A 6-PORT FACEPLATE AT 18" AFF. PROVIDE AND INSTALL 4S JBOX WITH SINGLE GANG MUDRING AND 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION. PROVIDE BUSHINGS AND PULLSTRING, U.O.N.
E(X)	EXISTING DATA OUTLET. (E) DENOTES THE OUTLET IS EXISTING AND (X) DENOTES THE AMOUNT OF EXISTING DATA CABLES RUNNING TO THE FACEPLATE. CONTRACTOR SHALL KEEP EXISTING INFRASTRUCTURE, BUT PROVIDE NEW CABLING TO THESE LOCATIONS. CONTRACTOR SHALL PROVIDE (2) NEW CAT 6 CABLES TO THIS LOCATION, REGARDLESS OF THE QUANTITY OF OUTLETS SHOWN ON THE SYMBOL.
TV	DATA OUTLET. PROVIDE AND INSTALL (2) CAT 6 CABLES TERMINATED IN A CONSOLIDATED POWER, DATA, AND AV BACK BOX. REFER TO AUDIOVISUAL AND ELECTRICAL SHEETS FOR CONSOLIDATED BACK BOX TYPE. PROVIDE BUSHINGS AND PULLSTRING, U.O.N. MOUNT OUTLET AT 66" AFF U.O.N.
W	WALL PHONE OUTLET - WALL MOUNTED. PROVIDE AND INSTALL (1) CAT 6 CABLE TERMINATED ON A STAINLESS STEEL WALL PHONE FACE PLATE AT 48" AFF. PROVIDE AND INSTALL 4S JBOX WITH 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION. PROVIDE BUSHINGS AND PULLSTRING, U.O.N. ALL WALL MOUNT PHONES SHALL BE OFCI
F	VOICE/DATA SYSTEMS FURNITURE OUTLET. PROVIDE AND INSTALL (2) CAT 6 CABLES/ JACKS TERMINATED IN 3-PORT FURNITURE MOUNT FACEPLATE.
EP	EMERGENCY BLUE PHONE. PROVIDE AND INSTALL CODE BLUE MODEL CB-4U WITH SEPARATE WALL MOUNTED BLUE BEACON PUBLIC ADDRESS ACCESSORY, AND (2) CAT 6 CABLES BACK TO IDF ROOM.
	DATA OUTLET - FLOORBOX. PROVIDE AND INSTALL (4) CAT 6 CABLES/JACKS TERMINATED IN FLOOR BOX, U.O.N. PROVIDE AND INSTALL 1-1/4" CONDUIT STUBBED TO NEAREST FURRED WALL , ROUTE CONDUIT TO ACCESSIBLE LOCATION ABOVE FINISHED CEILING. PROVIDE BUSHINGS AND PULLSTRING, U.O.N.
X	DATA OUTLET - FLOORBOX. PROVIDE AND INSTALL (X) QUANTITY OF CAT 6 CABLES /JACKS TERMINATED IN FLOOR BOX, U.O.N.. PROVIDE AND INSTALL 1-1/4" CONDUIT STUBBED TO NEAREST FURRED WALL , ROUTE CONDUIT TO ACCESSIBLE LOCATION ABOVE FINISHED CEILING. PROVIDE BUSHINGS AND PULLSTRING, U.O.N.
	DATA OUTLET - CEILING MOUNTED. PROVIDE AND INSTALL (2) CAT 6 CABLES / JACKS TERMINATED IN A 2-PORT FACEPLATE AT FINISHED CEILING. (NOTE: AT HARDLID CEILING LOCATIONS PROVIDE AND INSTALL 4S JBOX WITH 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION. PROVIDE BUSHINGS AND PULLSTRING, U.O.N.)
	FURNITURE FEED DEDICATED JUNCTION BOX. PROVIDE AND INSTALL 5S JUNCTION BOX WITH (2) 2" CONDUITS TO ACCESSIBLE CEILING. FOR COMMUNICATIONS CABLING ONLY.
	FLOOR MOUNTED FURNITURE FEED. PROVIDE AND INSTALL 2" CONDUITS AS REQUIRED TO SERVE FURNITURE SYSTEM AS SHOWN ON THE DRAWINGS. ROUTE CONDUIT TO NEAREST FURRED WALL AND UP TO ACCESSIBLE CEILING SPACE. FOR COMMUNICATIONS CABLING ONLY.
WAP	WIRELESS ACCESS POINT OUTLET - CEILING MOUNTED. PROVIDE AND INSTALL (1) CAT 6A CABLE / JACKS TERMINATED IN A SURFACE MOUNT BOX ABOVE FINISHED CEILING. PROVIDE 5' SLACK LOOP AT ACCESS POINT LOCATION. (NOTE: AT HARDLID CEILING LOCATIONS, PROVIDE AND INSTALL 4S JBOX WITH 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION. PROVIDE BUSHINGS AND PULLSTRING, U.O.N. TERMINATE CABLES ON JACKS IN 2-PORT FACE PLATE. ALL WIRELESS ACCESS POINTS SHALL BE OFCI.
WAP	WIRELESS ACCESS POINT OUTLET - WALL MOUNTED. PROVIDE AND INSTALL (1) CAT 6A CABLE / JACKS TERMINATED IN A 2-PORT FACEPLATE AT NOTED HEIGHT AFF. PROVIDE 5' SLACK LOOP AT ACCESS POINT LOCATION. PROVIDE AND INSTALL 4S JBOX WITH 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION, BUSH AND PROVIDE PULLSTRING, U.O.N. ALL WIRELESS ACCESS POINTS SHALL BE OFCI
PA	EXTERIOR PAGING SPEAKER - RECESSED WALL MOUNTED. PROVIDE AND INSTALL (1) CAT 6 CABLE COILED WITHIN JUNCTION BOX AT EXTERIOR OF BUILDING. PROVIDE AND INSTALL ATLAS IED BACKBOX IP-FEST-IH (IP-FEST-HVP) JBOX WITH (1) 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING LOCATION, BUSH AND PROVIDE PULLSTRING. MOUNT EXTERIOR PAGING SPEAKER AT 9'-0" AFF U.O.N. SPEAKER SHALL BE A RECESSED INSTALLATION. ALL PAGING SPEAKER DEVICES SHALL BE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.
	WALL MOUNTED CLOCK. WIRELESS.

AUDIO VISUAL LEGEND

SYMBOL	DESCRIPTION
AV1	PROVIDE A SINGLE GANG BACKBOX WITH (1) 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE. MOUNT AT 18" AFF U.O.N. ON DRAWINGS.
AV2	PROVIDE A DOUBLE GANG BACKBOX WITH (2) 1-1/4" CONDUITS STUBBED TO ACCESSIBLE CEILING SPACE. MOUNT AT 18" AFF U.O.N. ON DRAWINGS.
AV3	PROVIDE A THREE GANG BACKBOX WITH (3) 1-1/4" CONDUITS STUBBED TO ACCESSIBLE CEILING SPACE. MOUNT AT 18" AFF U.O.N. ON DRAWINGS.
AV	PROVIDE A CEILING MOUNTED TWO GANG BACKBOX.
AV	PROVIDE A FLOOR MOUNTED JUNCTION BOX. PROVIDE 1-1/4" CONDUIT TO NEAREST WALL AND STUB TO ACCESSIBLE CEILING SPACE.
MIP	PROVIDE A CONDUIT COLLECTOR BOX SIZED AT 6" X 6" X 3". REFER TO CONDUIT QUANTITY AND SIZE ON DRAWINGS. CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE.
$	SCREEN RAISE LOWER SWITCH. PROVIDE A SINGLE GANG BACKBOX WITH (1) 1" CONDUIT TO LOW VOLTAGE CONTROL. MOUNT AT 48" AFF U.O.N. ON DRAWINGS.
AV1	CONSOLIDATED POWER, DATA, AND AV WALL BOX. CHIEF PAC 525. PROVIDE (2) 1-1/4" CONDUITS STUBBED UP TO ACCESSIBLE CEILING SPACE FOR AV U.O.N.
AV	CONSOLIDATED POWER, DATA, AND AV FLOORBOX OR POKE THRU FOR FLOORBOX AS NOTED ON DRAWINGS. PROVIDE MODEL AND CONDUIT SIZES AND QUANTITIES AS NOTED ON THE AV DRAWINGS. REFER TO DETAIL 5/TAV601.
S	WALL MOUNTED SPEAKER
S	CEILING MOUNTED SPEAKER
	FLAT PANEL DISPLAY (SIZE AS NOTED ON DRAWINGS)
	PROJECTION SCREEN (SIZE AS NOTED ON DRAWINGS)
	PROJECTOR

AV INFRASTRUCTURE IDENTIFIER KEY



RESPONSIBILITY MATRIX

TASK	PARTY
TELECOM, AV, SECURITY CONDUIT, BACKBOXES, FLOORBOXES, POKE THRUS, SLEEVES	GC/EC (CFCI)
TELECOM, AV, SECURITY CONDUIT ID LABELING AND PULLSTRINGS	GC/EC (CFCI)
TELECOM, AV, SECURITY EQUIPMENT STRUCTURAL SUPPORTS AND BACKING	GC/EC (CFCI)
TELECOM, AV, SECURITY EQUIPMENT CEILING PREP (ACCESS POINTS, SPEAKER CUTOUTS, CAMERAS, INTRUSION)	GC/EC (CFCI)
POWER TO TELECOM AND AV LOCATIONS	GC/EC (CFCI)
AV AND TELECOM CONDUIT BACKBOX AND INFRASTRUCTURE	EC (CFCI)
PROJECTION SCREENS AND PROJECTOR MOUNTS	AVC (CFCI)
AV CABLING	AVC (CFCI)
AV SPEAKERS	MCC/AVC (OFCI)
PROJECTORS	MCC (OFOI)
CONTROL PANELS	MCC (OFOI)
CABLE CUBBIES (AS REQUIRED)	MCC (OFOI)
INPUT PLATES, AV SWITCHING EQUIPMENT, INSTRUCTOR LECTERN, DOC CAM, DISPLAYS, DISPLAY MOUNTS, ETC.)	MCC (OFOI)
TELECOM EQUIPMENT RACKS, PATCH PANELS, CABLE MANAGEMENT, LADDER	CC (CFCI)
TELECOM CABLING AND TERMINATION	CC (CFCI)
TELECOM FACEPLATES AND DIVIDERS	CC (CFCI)
PAGING SPEAKERS	CC (CFCI)
NETWORK EQUIPMENT (NETWORK SWITCHES, RACK UPS, WIRELESS ACCESS POINTS, WALL MTD, PHONES)	MCC/CC (OFCI)
WIRELESS ACCESS POINT ENCLOSURES	CC (CFCI)
SECURITY CAMERA CABLING	CC (CFCI)
VIDEO SURVEILLANCE CAMERAS	MCC

GC = GENERAL CONTRACTOR
EC = ELECTRICAL CONTRACTOR
AVC = AUDIOVISUAL CONTRACTOR
CC = CABLING CONTRACTOR
SC = SECURITY CONTRACTOR
MCC = OWNER (MIRA COSTA COLLEGE)

SECURITY LEGEND

SYMBOL	DESCRIPTION
	INFRASTRUCTURE ONLY FOR WALL MOUNTED SECURITY MOUNTED SECURITY CAMERA AT 10'-6" AFF. PROVIDE A 4S BACKBOX WITH (1) 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE AND (1) CAT 6 CABLE RUN TO THE IDF ROOM.
	INFRASTRUCTURE ONLY FOR CEILING MOUNTED SECURITY MOUNTED SECURITY CAMERA AT 10'-6" AFF. PROVIDE A 4S BACKBOX WITH (1) 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE AND (1) CAT 6 CABLE RUN TO THE IDF ROOM.

GENERAL NOTES

1. ALL TELECOMMUNICATIONS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE COLLEGE DESIGN STANDARDS AND CURRENT MANUFACTURER AND BICSI INSTALLATION PRACTICES. THESE STANDARDS HAVE BEEN ESTABLISHED TO EXCEED ALL CURRENT CODE AND BICSI INSTALLATION PRACTICE. ANY ITEMS THAT RAISE QUESTION SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND COLLEGE REPRESENTATIVE IN WRITING. IT IS ALWAYS A BEST PRACTICE TO PROVIDE THE AHJ WITH DETAIL ON ANY AND ALL CONSTRUCTION ITEMS THAT COULD BE QUESTIONED BY THE AHJ. THE PROJECT DOCUMENTATION PACKAGE AND ASSOCIATED COLLEGE STANDARD ARE NOT TO BE INTERPRETED NOR CONSIDERED AS AUTHORIZATION TO DEVIATE FROM ANY CODE OR REGULATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VALIDATE THAT THESE REQUIREMENTS WILL MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENT TO PROVIDE THE COLLEGE WITH A MINIMUM 25-YEAR SCS EXTENDED MATERIALS WARRANTIES.
2. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS, THE DOCUMENT WHICH PRESCRIBES AND ESTABLISHES THE COMPLETE JOB AS PER MANUFACTURER OR THE HIGHER STANDARD SHALL PREVAIL. ALL SUCH DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE COLLEGE REPRESENTATIVE IN WRITING IMMEDIATELY UPON DISCOVERY.
3. OMISSIONS FROM THE DRAWINGS OR FROM THE SPECIFICATIONS OR THE MISDESCRIPTION OF DETAILS OF WORK WHICH ARE CLEAR AND NECESSARY TO CARRY OUT THE INTENT FOR THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MISDESCRIBED DETAILS OF THE WORK. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER AND COLLEGE REPRESENTATIVE UPON IDENTIFICATION OF SUCH OMISSIONS, MISDESCRIPTION, AND UNCLEAR DIRECTIONS IMMEDIATELY. THE CONTRACTOR SHALL PERFORM ALL PROJECT TASKS AND ASSEMBLY BUILDS AS PER BICSI STANDARDS AND MANUFACTURER'S REQUIREMENTS ALONG WITH COORDINATING AND WORKING WITH THE COLLEGE TO CORRECT SUCH DOCUMENTATION ERRORS.
4. THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED IMMEDIATELY UPON THEIR RECEIPT AND PROMPTLY NOTIFY THE COLLEGE OF ANY DISCREPANCIES. THIS INCLUDES BUT NOT LIMITED TO, DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS, OR DRAWINGS AND MANUFACTURER INSTALLATION INSTRUCTIONS THAT WILL CAUSE EXTENDED WARRANTY ISSUES, OR DRAWINGS AND GOVERNING CODES AND BEST PRACTICES. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND COLLEGE REPRESENTATIVE ANY DISCREPANCIES BETWEEN DRAWINGS AND HOW THE CONTRACTOR NORMALLY DELIVERS THE SERVICES DESCRIBED IN THE DRAWINGS OR SPECIFICATIONS.
5. ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED SHALL BE NEW AND FREE FROM ANY KNOWN DEFECT. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL (UL™) LISTING, CLASSIFIED, AND/OR PERFORMANCE VERIFIED MARK OR FROM A COLLEGE APPROVED ALTERNATIVE TESTING ORGANIZATION. ALL MATERIALS SHALL BE INSTALLED AND USED IN THE MANNER FOR WHICH THE MANUFACTURER INTEND THEM FOR. THIS APPLIES FOR BOTH PIECE PARTS AND COMPLETE FUNCTIONING ASSEMBLIES.
6. CONTRACTOR IS REQUIRED TO RECEIVE WRITTEN APPROVAL FOR ALL RECOMMENDED AND REQUIRED WORK DEVIATIONS AND CLARIFICATIONS TO THE PLANS AND SPECIFICATIONS OF THIS PROJECT BY THE COLLEGE AND ITS REPRESENTATIVES PRIOR TO ANY FIELD ACTIVITY.
7. ALL WORK MUST BE COMPLETED IN AS PER MANUFACTURER INSTALLATION REQUIREMENTS AND BICSI INSTALLATION PRACTICES. THE COLLEGE DEMANDS THE UTMOST PROFESSIONALISM WHEN WORK IS BEING PERFORMED AT EITHER COLLEGE CAMPUS AND HOLDS ALL CONTRACTORS TO THAT LEVEL OF PROFESSIONALISM. THE WORK SITE SHALL BE KEPT CLEAN AND FREE FROM DEBRIS. IT IS EVERY CONTRACTOR AND ALL THEIR REPRESENTATIVE'S RESPONSIBILITY TO GUARD AGAINST ANY DAMAGE TO COLLEGE PROPERTY AND THE IMMEDIATE REPAIR IF ANY DAMAGE IS CAUSED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A FINAL CLEANUP OF THE WORK SITE PRIOR TO FINAL SYSTEM ACCEPTANCE AS PART OF THE PUNCH-LIST PROCESS.
8. THE CONTRACTOR SHALL NOT BORE, NOTCH, OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE COLLEGE, ARCHITECT, AND STRUCTURAL ENGINEER. WITH PERMISSION FROM THE ABOVE AND PRIOR TO ALL CUTTING, DRILLING, NOTCHING, CORING, ETC. OF CONCRETE STRUCTURE AND FACADE THESE SURFACES SHALL BE X-RAYED OR GROUND PENETRATING RADAR USED TO ACCURATELY LOCATE REBAR, POST-TENSION CABLES & RODS, CONDUITS, AND ANY OTHER EMBEDDED POTENTIAL OBSTRUCTIONS TO ENSURE THAT NO DAMAGE IS CAUSED TO ANY STRUCTURAL REINFORCEMENTS.
9. FOR THE PURPOSE OF CLEARNESS AND LEGIBILITY THE TELECOM DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS WITH INFORMATION INDICATED ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATION SECTIONS WHERE TELECOM WORK INTERFACES WITH OTHER TRADES.
10. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS WHEN WORKING IN AREAS WITH EXISTING CEILINGS AND SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING TILES WITHOUT DAMAGING OR SOILING THE CEILING TILES. CHIPPED, DAMAGED, CRACKED, OR BROKEN TILES ARE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE WITH LIKE TILES.
11. ALL FOOTAGES IDENTIFIED ON DRAWINGS OR SCALED OFF OF DRAWINGS ARE TO BE CONSIDERED ESTIMATES AND ARE REQUIRED TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO ORDERING OF MATERIAL.
12. ALL CABLE TRAYS, LADDER (TYPE) RACKING, "BASKET TYPE TRAY, CONDUIT & SLEEVES, EQUIPMENT RACKS, PROTECTION PANELS, AND CABLE SHEATHS SHALL BE BONDED TO AN APPROVED TELECOMMUNICATIONS BONDING ASSEMBLY.
13. ACCORDING TO TIA STANDARDS AND BICSI METHODOLOGIES PULL-BOXES LOCATED WITHIN A STRUCTURE ARE TO BE PLACED AT 100' INCREMENTS AND PROPERLY SPACED WITHIN RUNS OF MORE THAN 150'. PULL-BOXES ARE TO BE PLACED IN CONDUIT RUNS THAT EXCEED A MAXIMUM OF 180-DEGREES IN CHANGES OF DIRECTION. TELECOMMUNICATIONS PULL-BOXES ARE TO BE SIZED AT A MINIMUM OF TWELVE (12) TIMES THE DIAMETER OF THE LARGEST CONDUIT. PULL-BOXES SHOULD NOT BE USED FOR CHANGES OF DIRECTION. THESE STANDARDS ARE TO BE ADHERED TO WHERE EVER PRACTICAL AND ANY DEVIATION TO THESE STANDARDS REQUIRES A SHOP-DRAWING, IF DISCOVERED DURING THE SUBMITTAL PHASE, TO REMEDIATE THE ISSUE OR BY AN RFI DURING THE CONSTRUCTION INSTALLATION PHASE. THE COLLEGE MAY ELECT TO INCREASE THE CONDUIT SIZE OR QUANTITY OF CONDUITS TO MITIGATE THE ISSUE FOR THE EXCESS LENGTH, ADDITIONAL QUANTITY OF CHANGES OF DIRECTION, AND/OR THE REDUCED SIZE OF PULL-BOXES WITHIN THE GIVEN PATHWAY. THE CONTRACTOR IS REQUIRED TO HAVE APPROVAL IN WRITING PRIOR TO ANY ROUGH-IN WORK OR MATERIAL PROCUREMENT.
14. AS A STANDARD, ALL INTRA-BUILDING PATHWAYS SHALL HAVE A MINIMUM OF 25% AVAILABLE CAPACITY AT THE SCHEDULED END OF THE PROJECT. SHOULD THIS PERCENTAGE NOT BE ACHIEVABLE, THIS ISSUE MUST BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE COLLEGE REPRESENTATIVE.
15. USE "J" HOOKS FOR STATION CABLE DISTRIBUTION IN OPEN CEILING ENVIRONMENTS IS ACCEPTABLE TO THE COLLEGE AS LONG AS THE FOLLOWING PARAMETERS ARE MET. DO NOT USE CEILING SUPPORT WIRE OR CEILING HANGERS. DO NOT USE SUPPORTS FOR ANY OTHER BUILDING SERVICES UNLESS PRIOR WRITTEN APPROVAL FOR THEIR USE IS GIVEN AND VERIFIED WITH PROJECT STRUCTURAL ENGINEER. NEVER IS IT ACCEPTABLE FOR CABLING TO IMPEDE OR HINDER THE ACCESSING OF THE ABOVE CEILING SPACE OR ANY ABOVE CEILING MOUNTED EQUIPMENT. CABLES ARE NOT TO BE WRAPPED AROUND ANY BUILDING STRUCTURAL SUPPORTS OR BUILDING SERVICES. ALL APPROPRIATE COLLEGE AND BICSI INSTALLATION PRACTICE CLEARANCES FROM FIXTURES, CONTROLS, AND ACCESS DEVICES OF ANY KIND ARE TO BE ADHERED TO. CABLING IS NEVER TO RUN THROUGH OR IMPEDE THE OPERATION OF ANY AIR-HANDLING DUCTS OR DAMPERS.
16. WHERE PATHWAY CONSISTS OF MULTIPLE CONDUITS OR SLEEVES, A PATHWAY MUST BE FILLED TO CURRENT TIA AND BICSI INSTALLATION RECOGNIZED MAXIMUM FILL BEFORE UTILIZING THE NEXT VACANT OR PARTIALLY FILLED PATHWAY.
17. OVERHEAD AND WALL MOUNTED LADDER (TYPE) RACKING INSTALLATION SHALL MATCH THE DRAWINGS AS CLOSELY AS POSSIBLE AND REQUIRES A SHOP DRAWING FOR EACH ROOM LOCATION. THE PACKAGE IS TO INCLUDE A BILL OF MATERIALS WITH PART NUMBERS FROM RACKING MANUFACTURER FOR MOUNTING AND CONNECTION PIECE PARTS. PRIOR TO ANY ROUGH-IN WORK BEING PERFORMED THESE SUBMITTALS MUST BE APPROVED BY THE COLLEGE REPRESENTATIVE.
18. ALL CABLING AND THEIR PATHWAYS PASSING THROUGH A RATED FIRE OR SMOKE BARRIER MUST BE PROPERLY SLEEVED AND FIRE STOPPED USING APPROVED (UL CLASSIFIED) FIRE STOP ASSEMBLIES. FIRESTOP ASSEMBLIES ARE TO BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS FOR THE TYPE OF BARRIER, PATHWAY SIZE, AND QUANTITY OF CABLES THE FIRESTOP ASSEMBLY IS BEING INSTALLED FOR. CONTRACTOR IS REQUIRED TO MAINTAIN TRAINING RECORDS FOR ALL STAFF PERFORMING FIRESTOP ASSEMBLY INSTALLATION WORK.
19. CABLE PULLING - LINE/ROPE/TAPE SHALL BE PLACED IN ALL NEW CONDUITS. ALL UNUSED CONDUITS SHALL ALSO BE CAPPED AND/OR PROPERLY FIRE STOPPED IN A MANNER APPROVED BY THE COLLEGE AND/OR THE AHJ.
20. CONTRACTOR TO COORDINATE WAO AND SUPPORTING CONDUIT WITH THE ELECTRICAL CONTRACTOR WHERE THE ELECTRICAL CONTRACTOR IS A DIFFERENT ORGANIZATION THAN LOW-VOLTAGE CABLING/CONDUIT CONTRACTOR FOR PROPER PLACEMENT.
21. ALL STATION CABLES SHALL BE NEATLY DRESSED AND SECURED FEET AT A MINIMUM EVERY FIVE FEET.
22. ALL STATION CABLES SHALL BE TERMINATED ON THE SAME FLOOR AS THE FLOOR SERVING BDF/IDF UNLESS OTHERWISE NOTED IN THESE DRAWINGS.
23. ALL STATION CABLING IS TO BE MECHANICALLY PROTECTED IN PLACE UNLESS OTHERWISE IDENTIFIED IN THESE DRAWINGS, BY A CONTRACT CHANGE RECORD, OR BY A RFI RESPONSE FROM THE COLLEGE REPRESENTATIVE IN WRITING DIRECTING SURFACE-MOUNT EXPOSED AS THE CABLE INSTALLATION MEANS.
24. ALL NEW AND REUSED STATION CABLES SHALL BE TESTED AND DOCUMENTED USING RECOGNIZED MANUFACTURER INSTALLATION REQUIREMENTS AND BICSI INSTALLATION PRACTICES. UTP (CATEGORY) CABLE TESTING RESULTS SHALL BE ONE TEST RECORD FOR EACH CABLE AND THE RECORD MUST INCLUDE THE COLLEGE'S APPROVED CABLE IDENTIFICATION STANDARD NAMING/NUMBERING SCHEME. OPTICAL FIBER TESTING SHALL FOLLOW ALL COLLEGE AND MANUFACTURER INSTALLATION PRACTICES. COAX TESTING SHALL FOLLOW BOTH COLLEGE AND THE ANSI/SCTE CABLE TESTING STANDARDS & BEST PRACTICES, INCLUDING BUT NOT LIMITED TO; ANSI/SCTE - 10-2014, 40-2011, 44-2010, 47-2007, 48-3-2011.
25. THE COLLEGE REQUIRES A ONE (1) METER SLACK LOOP FOR ALL WAO SUPPORTED BY OPEN CEILING CABLE DISTRIBUTION. THE SLACK LOOP MUST BE SUPPORTED ABOVE THE WAO IN NEAT AND REPEATABLE FASHION THAT MEETS BOTH BICSI INSTALLATION AND MANUFACTURER PRACTICES.
26. ALL STATION OUTLETS, WAO, AND TERMINATION POINTS INCLUDING EXISTING WAO UTILIZED UNDER THIS PROJECT SCOPE SHALL BE PROPERLY LABELED AND IDENTIFIED USING THE STANDARD COLLEGE INTERNAL DISTRIBUTION NAMING/NUMBERING SCHEME, IDENTIFIED IN THIS DRAWING SET. ALL LABELS ARE TO BE MACHINE GENERATED AND AN EXCEL TYPE MATRIX CREATED DEFINING LOCATION OF BOTH ENDS OF EACH LABELED CABLE. AS-BUILT CLOSEOUT PACKAGE MUST INCLUDE THESE STATION AND TERMINATION POINTS IDENTIFIED ON FLOOR PLANS FOR EACH LEVEL/FLOOR IN ADDITION TO THE STATION CABLING MATRIX. THE SAME CABLE IDENTIFICATION IS ALSO REQUIRED TO BE INCLUDED ON EACH CABLE TESTED RECORD BOTH HARD AND SOFT-COPY RECORD.
27. INCLUDED AS PART OF THE CABLING AS-BUILT DOCUMENTATION PACKAGE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TO THE COLLEGE THE ADD ON TO THE CURRENT STRUCTURED CABLING SOLUTION MANUFACTURER'S 25-YEAR EXTENDED WARRANTY CERTIFICATE FOR THIS PROJECT.
28. THE WAO UTP 8-CONDUCTOR JACKS ARE DESCRIBED WITHIN THIS DOCUMENT SET AS RJ-45 JACKS/INSERTS. THE DESIGNERS ARE AWARE THAT ABBREVIATION RJ-45 IS A FCC - REGISTERED JACK WITH 8-CONDUCTORS AND DESCRIPTION IN THIS DOCUMENT SET IS FOR A UTP CATEGORY CABLE RATED JACK/INSERT AND NOT FOR FCC INTERFACE JACKS.
29. NOT ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE USED IN THE DRAWING SET CURRENTLY, BUT ARE THERE, SHOULD THE SCOPE GROW TO INCLUDE SUCH WORK.
30. THE CONTRACTOR SHALL PROVIDE WIRE GUARDS FOR ALL EXPOSED AUDIO, VISUAL, AND NETWORK DEVICES LOCATED IN AREAS THAT CAN BE SUBJECT TO VANDALISM. FOR CLARIFICATION THE CONTRACTOR SHALL DISCUSS WITH CONSTRUCTION MANAGER.
31. ALL CONDUITS CROSSING BUILDING SEISMIC SEPARATIONS OR EXPANSION JOINTS SHALL BE PROVIDED WITH APPROVED CONNECTORS. REFER TO ARCHITECTURAL PLANS FOR ALL EXPANSION JOINT LOCATIONS.
32. COORDINATE INSTALLATION OF LIGHTING FIXTURES WITH CABLE TRAY AND EQUIPMENT IN BDF, IDF, AND ALL A/V ROOMS/SPACES TO MAINTAIN REQUIRED LIGHTING LEVELS WITH ALL EQUIPMENT IN PLACE.
33. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS OR SHOP DRAWINGS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE FOR THE COLLEGE.
34. COLLEGE STANDARDS, MANUFACTURER, BICSI INSTALLATION PRACTICES FOR PROJECT SUBMITTALS AND SHOP DRAWINGS ARE IDENTIFIED IN SPECIFICATIONS SECTIONS LISTED IN DIVISION 26, 27, AND 28, OF THE PROJECT CONTRACT DOCUMENTATION SET.

MEP COMPONENT ANCHORAGE NOTE
ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANANTE ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.
4. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:
   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING 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.
   THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):
E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

SCOPE OF WORK

TELECOMMUNICATIONS DEMO

- TELECOMMUNICATIONS ROOM AND EQUIPMENT IS EXISTING AND SHALL REMAIN IN PROTECTED IN PLACE.
- DEMOLISH AND REMOVE ALL EXISTING DATA OUTLETS AND CABLING BACK TO THE IDF ROOM ON ALL WALLS THAT ARE SCHEDULED TO BE DEMOLISHED.

TELECOMMUNICATIONS INSTALL

- FURNISH AND INSTALL A NEW END TO END TELECOMMUNICATIONS CABLING SOLUTION AS SHOWN ON THE DRAWINGS.
- PROVIDE AND INSTALL DATA/NETWORK DEVICE LOCATIONS WITH NEW CABLING, FACEPLATES, AND CONNECTORS AS SHOWN ON THE DRAWINGS.
- PROVIDE AND INSTALL ENCLOSURES FOR THE EXTERIOR WIRELESS ACCESS POINTS. CONFIRM WITH COLLEGE EXTERIOR ACCESS POINT TYPE PRIOR TO PURCHASE.
- CONTRACTOR SHALL INSTALL OWNER FURNISHED EQUIPMENT IN THIS SCOPE OF WORK:
  1. WALL MOUNTED PHONES IN CLASSROOMS
  2. WIRELESS ACCESS POINTS (INTERIOR AND EXTERIOR)
  3. NETWORK SWITCHING EQUIPMENT
  4. RACK MOUNT UPS

AUDIOVISUAL

- THE CONTRACTOR SHALL PROVIDE IN THIS SCOPE OF WORK:
  1. CONDUIT AND BACKBOX INFRASTRUCTURE FOR AV.
  2. PROJECTION SCREENS AND PROJECTOR MOUNTS ONLY
  3. AV CABLING AS NOTED ON THE DRAWINGS
  4. INSTALLATION OF OWNER FURNISHED SPEAKERS
- THE OWNER WILL FURNISH AND INSTALL IN THIS SCOPE OF WORK:
  1. PROJECTORS
  2. CONTROL PANELS
  3. AV CABLE CUBBIES (AS REQUIRED)
  4. INPUT PLATES, AV SWITCHING EQUIPMENT, INSTRUCTOR LECTERN, DOC CAM, DISPLAYS, DISPLAY MOUNTS, ETC.
- THE OWNER WILL FURNISH AND THE CONTRACTOR WILL INSTALL IN THIS SCOPE OF WORK:
  1. AV SPEAKERS

SECURITY

- THE CONTRACTOR SHALL PROVIDE INFRASTRUCTURE ONLY TO FUTURE SECURITY CAMERA LOCATIONS AS NOTED ON THE DRAWINGS.

SHEET INDEX

SHEET	DESCRIPTION
T001	TECHNOLOGY GENERAL NOTES, LEGEND, ABBREV. AND SHT INDEX
TD201	DEMOLITION - FLOOR PLANS
T201	FLOOR PLANS
TAV201	AUDIOVISUAL FLOOR PLANS
TAV401	ENLARGED AV PLANS
T601	DETAILS
T602	DETAILS

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
#	NUMBER (IDENTIFICATION) OR COUNT
(#)	NUMBER IS QUANTITY
A OR AMP	AMPERES
A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISHED FLOOR
AH	AMPERE HOUR
AHJ	AUTHORITY HAVING JURISDICTION
ALS	ASSISTIVE LISTENING SYSTEM
AP	ACCESS POINT
ARCH	ARCHITECT, ARCHITECTURAL
ASP	ALUMINUM, STEEL, POLYETHYLENE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVC	AUDIOVISUAL CONTRACTOR
AWG	AMERICAN WIRE GAUGE
B/BUR	BURIED
BDF	BUILDING DISTRIBUTION FRAME
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
C.O.	CONDUIT ONLY – WITH PULL WIRE
CATV	COMMUNITY ANTENNA TELEVISION (CABLE TELEVISION)
CB	CONDUIT BANK
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CMP	COMMUNICATIONS PLENUM (CABLE JACKET RATING)
CMR	COMMUNICATIONS RISER (CABLE JACKET RATING)
CP	CONSOLIDATION POINT
CSC	CAPTURED SCREW CONNECTOR
CU	COPPER
DAS	DISTRIBUTED ANTENNA SYSTEM

ABBREVIATION	DESCRIPTION
dB	DECIBEL
DC	DIRECT CURRENT
DIST	DISTRIBUTION
DMARC	POINT OF DEMARCATION BETWEEN UTILITIES OR BETWEEN UTILITIES AND OWNER PREMISE EQUIPMENT
DWG	DRAWING
E.C.	ELECTRICAL CONTRACTOR
EA	EACH
EF	ENTRANCE FACILITY
ELEC	ELECTRIC
EMI	ELECTROMAGNETIC INTERFERENCE
EMS	EMERGENCY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
EQUIP	EQUIPMENT
EXIST/(E)	EXISTING
FB	FLOOR BOX
FDC	OPTICAL - FIBER DISTRIBUTION CENTER
FDR	FEEDER
FEXT	FAR END CROSSTALK
FIN	FINISH
FIXT	FIXTURE
FLR	FLOOR
FOC	FIBER OPTIC CABLE
FPS	FRAMES PER SECOND
FT	FEET
G.C.	GENERAL CONTRACTOR
GA	GAUGE
GND	GROUND (MECHANICAL CONNECTION TO EARTH)
GRC	GALVANIZED RIGID CONDUIT
H., W., D., L.	HEIGHT, WIDTH, DEPTH, LENGTH

ABBREVIATION	DESCRIPTION
IC	INTERCOM
ID	INSIDE DIAMETER OR INSIDE DIMENSION
IDF	INTERMEDIATE DISTRIBUTION FRAME
IN	INCHES, MEASUREMENT
IR	INFRARED
ISP	INTERNET SERVICE PROVIDER
JB	JUNCTION BOX
LTG	LIGHTING
M	METER
MAC	MEDIA ACCESS CONTROL
MDF	MAIN DISTRIBUTION FRAME
MH	MAINTENANCE HOLE (OSP CONFINED SPACE) – (A.K.A. MANHOLE)
MM	MULTI-MODE - REFERRING TO OPTICAL FIBER CORE/CLADDING PROPERTIES
MTG	MOUNTING
MTU	MULTI TENANT UNIT
N	NORTH
N.T.S.	NOT TO SCALE
ND	NETWORK DEVICE
NE	NETWORK ENCLOSURE
NEXT	NEAR END CROSSTALK
NIC	NOT IN CONTRACT
NO. OR #	NUMBER
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
OD	OUTSIDE DIAMETER
OF	OPTICAL FIBER
OSP	OUTSIDE PLANT
OTDR	OPTICAL TIME DOMAIN REFLECTOMETER
PA	PUBLIC ADDRESS SYSTEM
PB	PULL BOX

ABBREVIATION	DESCRIPTION
PH	PHASE
PNL	PANEL
POE	POWER OVER ETHERNET
PPF	PIXELS PER FOOT
PR	PAIR
PSU	POWER SUPPLY UNIT
PTP	POINT-TO-POINT
PVC	POLYVINYL CHLORIDE
PWR	POWER
REC/RECEPT	RECEPTACLE
REQ'D	REQUIRED
RM	ROOM
RMC	RIGID METAL CONDUIT
RMS	RACK MOUNTED SPACE
RNC	RIGID NONMETALLIC CONDUIT
RU	RACK UNIT
S	SOUTH
SAC	SECURITY AND ACCESS CONTROL
SCH	SCHEDULE
SCS	STRUCTURED CABLING SOLUTION
ScTP	SCREENED TWISTED PAIR
SF	SQUARE FEET
SM	SINGLE-MODE REFERRING TO OPTICAL FIBER CORE/CLADDING PROPERTIES
SNR	SIGNAL TO NOISE RATIO
SPD	SURGE PROTECTION DEVICE
SQ	SQUARE
STP	SHIELDED TWISTED-PAIR
SW	SWITCH
SYS	SYSTEM
TB	TERMINAL BLOCK
TBB	TELECOMMUNICATIONS BONDING BACKBONE

ABBREVIATION	DESCRIPTION
TCP/IP	TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL
TE	TELECOMMUNICATIONS ENCLOSURE
TEL	TELEPHONE
TELCO	TELEPHONE UTILITY
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TP	TRANSITION POINT
TR	TELECOMMUNICATIONS ROOM OR SPACE
TV	TELEVISION
TYP	TYPICAL
UD	UNDERGROUND DUCT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES INC.
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS OR VOLTAGE
V-A	VOLT-AMPERES
W	WATTS
W/	WITH
W/O	WITHOUT
WAO	WORK AREA OUTLET / WORK STATION OUTLET
WBS	WORK BREAKDOWN STRUCTURE
WiFi	WIRELESS FIDELITY (LOCALIZED WIRELESS USER ACCESS INTERNET/NETWORK)
WP	WATERPROOF OUTLET BOX
WS	WORK STATION

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

DSA FILE NO. 37-C2 A# 04-119030

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REN. 5-31-2021
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CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT
PROJECT NUMBER
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DATE: 2020/11/10
DRAWN BY: -
CHECKED BY: -
REVISIONS

No.	Description	Date

100% CONSTRUCTION DOCUMENS

TECHNOLOGY GENERAL NOTES, LEGEND, ABBREV. AND SHT INDEX

T001

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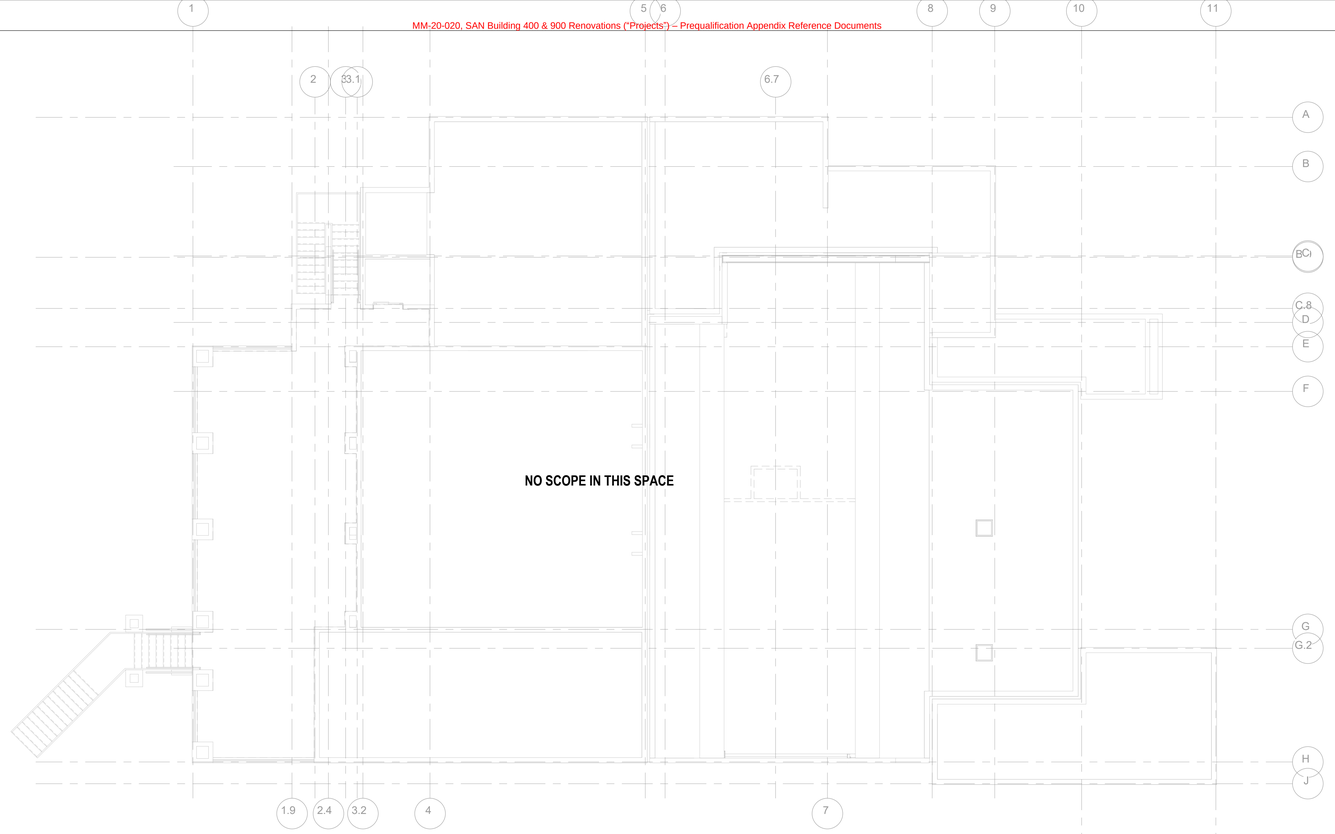
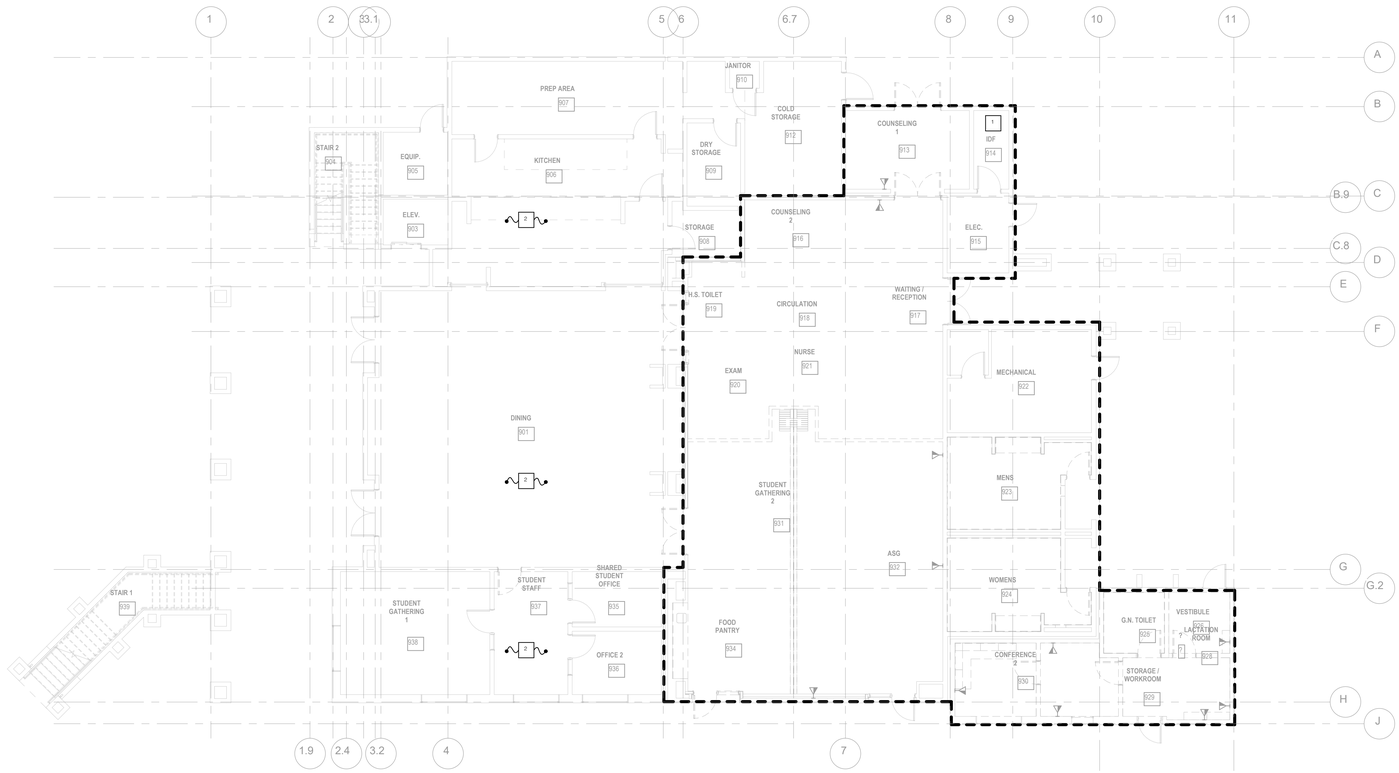
MM-20-020, SAN Building 400 & 900 Renovations ("Projects") – Prequalification Appendix Reference Documents



2 SECOND FLOOR TECHNOLOGY PLAN

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



1 FIRST FLOOR TECHNOLOGY PLAN

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

GENERAL NOTES

1. THE IDF ROOM AND IT EQUIPMENT IN THIS BUILDING SHALL REMAIN AND BE PROTECTED IN PLACE.
2. THE AREA TO BE DEMOED IN THIS BUILDING IS LOCATED WITHIN THE DASHED AREA.
3. ALL EXISTING INFRASTRUCTURE THAT REMAINS SHALL RECEIVE NEW DATA CABLING PER THE CAMPUS STANDARDS.
4. EXISTING SECURITY CAMERAS, WIRELESS ACCESS POINTS, PHONES, PLOTTERS, PRINTERS, COMPUTERS, AND OTHER NETWORK CONNECTED EQUIPMENT IN THE DEMO SPACE SHALL BE DOCUMENTED, DISCONNECTED, REMOVED, AND RETURNED TO OWNER.

NOTES

1. LOCATION OF EXISTING IDF ROOM. TO REMAIN AND PROTECT IN PLACE.
2. EXISTING DATA OUTLETS IN THIS LOCATION ARE OUTSIDE OF SCOPE AND SHALL BE EXISTING TO REMAIN.
3. EXISTING DATA OUTLET INFRASTRUCTURE SHALL REMAIN. DEMOLISH AND REMOVE EXISTING DATA CABLING, FACEPLATE, AND CONNECTORS AND REMOVE ALL THE CABLING TO THE EXISTING IDF ROOM.
4. ALL EXISTING DATA OUTLETS WITHIN SPACE NOT ARE TO BE DEMOLISHED AND REMOVED ALL THE WAY TO THE PATCH PANEL LOCATION IN THE IDF ROOM.

DSA FILE NO. 37-C2 A# 04-119030

PBK

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SIGNED: 09/30/2020

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STATE OF CALIFORNIA

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MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
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DATE:	2020/11/10
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CHECKED BY:	-

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DEMOLITION - FLOOR PLANS

TD201

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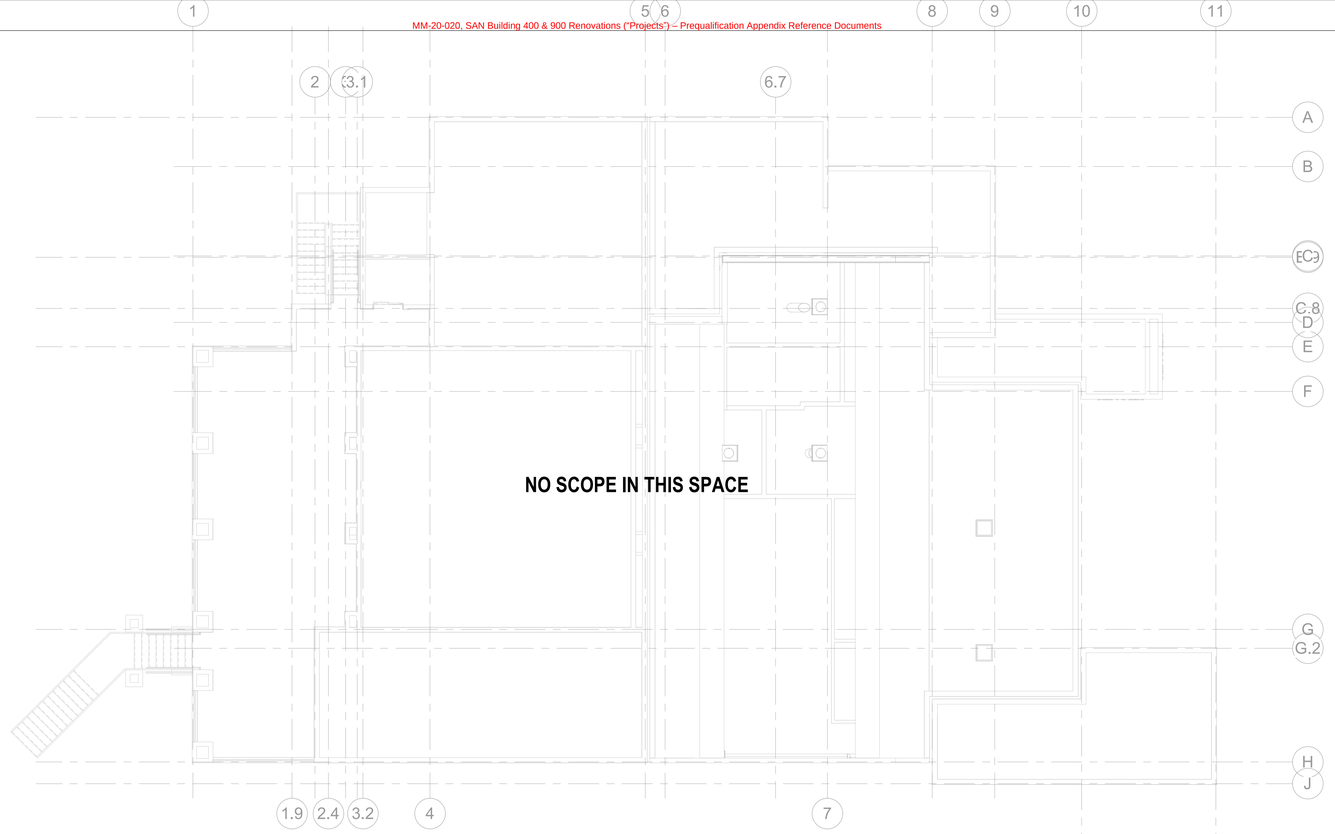
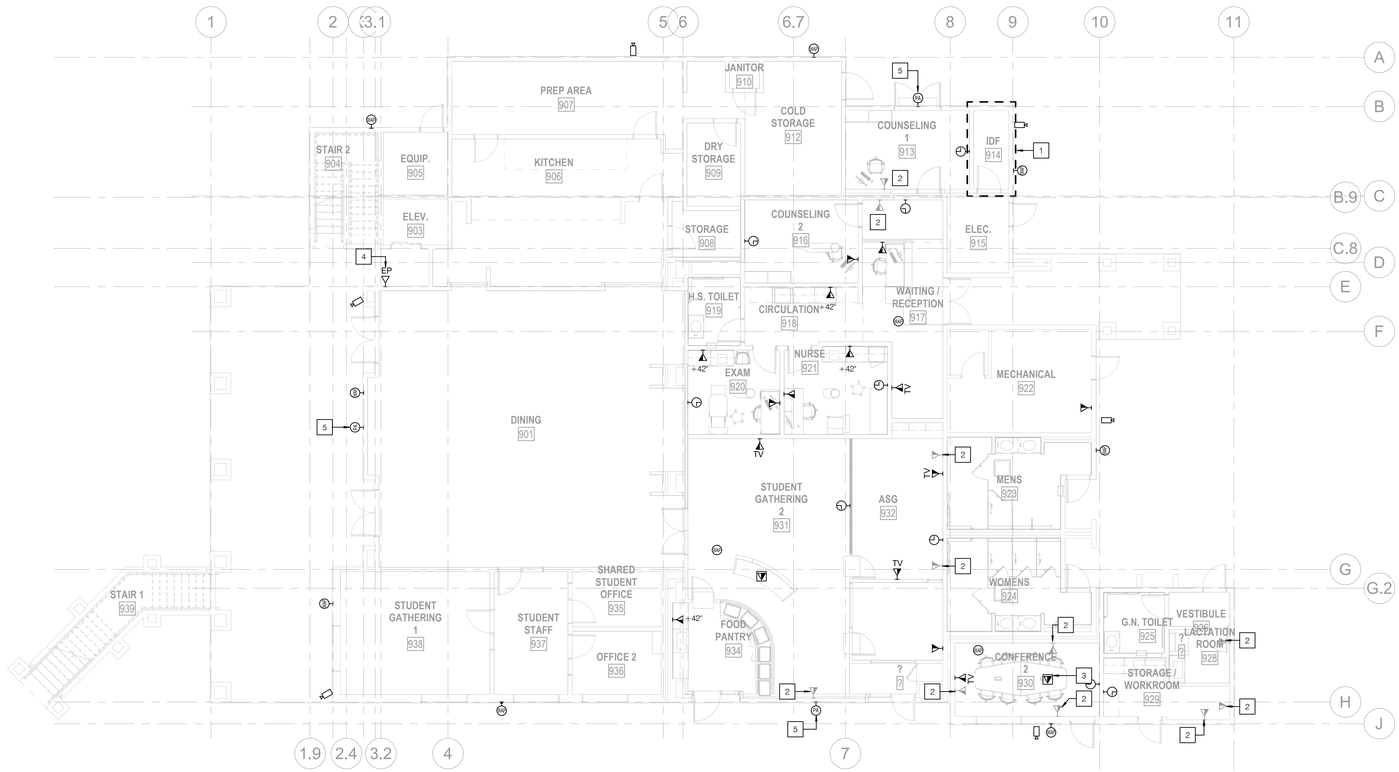
MM-20-020, SAN Building 400 & 900 Renovations ("Projects") – Prequalification Appendix Reference Documents



2 SECOND FLOOR TECHNOLOGY PLAN

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



1 FIRST FLOOR TECHNOLOGY PLAN

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

NOTES

1. LOCATION OF EXISTING IDF ROOM. TO REMAIN AND PROTECT IN PLACE.
2. DATA OUTLET INFRASTRUCTURE IS EXISTING. NEW CABLING AND FACEPLATE ONLY.
3. COMBINATION POWER, DATA, AV FLOORBOX PER AV DRAWINGS.
4. EXISTING EMERGENCY PHONE TO BE REPLACED WOTH NEW EMERGENCY PHONE.
5. EXISTING PAGING SPEAKERS TO BE REPLACED WITH NEW EMERGENCY SPEAKERS.

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

DSA FILE NO. 37-C2 A# 04-119030

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FLOOR PLANS

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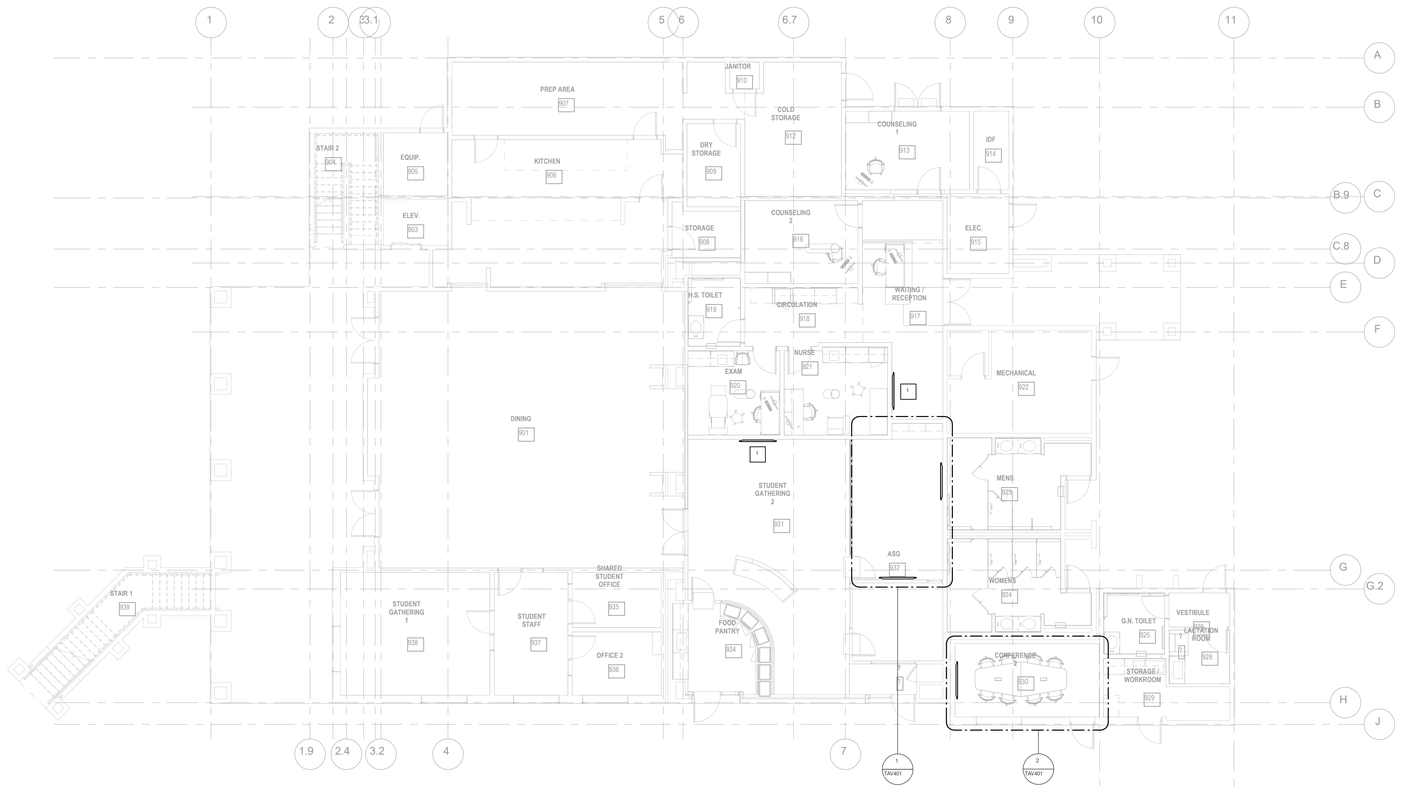
NOTES

1 FLAT PANEL DISPLAY FOR DIGITAL SIGNAGE (OFOI)



1 FIRST FLOOR AUDIO VISUAL PLAN

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

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DSA FILE NO. 37-C2 A# 04-119030

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

3333 Manchester Ave, Cardiff, CA 92007

100% CONSTRUCTION DOCUMENS

MIRACOSTA COLLEGE

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MIRACOSTA COMMUNITY COLLEGE DISTRICT

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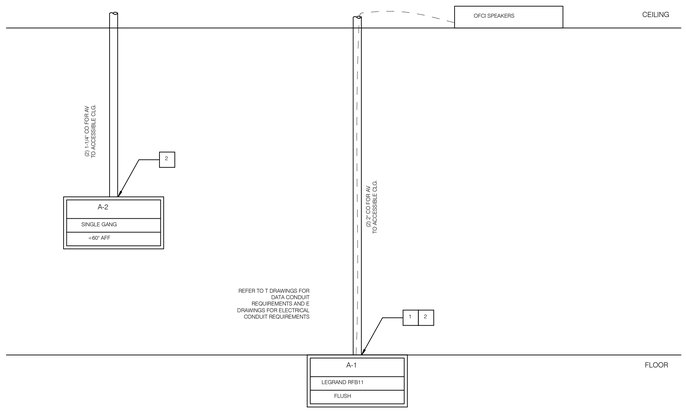
AUDIOVISUAL FLOOR PLANS

TAV201

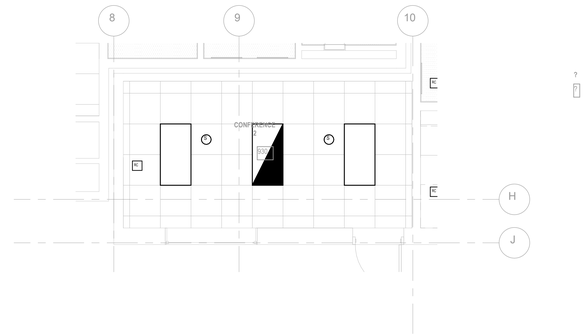
NOTES

1. PROVIDE SPEAKER CABLE: EXTRON SPK 18P, 18 AWG SPEAKER CABLE, PLENUM RATED WITH SERVICE LOOP ABOVE CEILING AND AT FLOOR BOX.
2. PROVIDE (2) CAT 6A CABLES, SHIELDED WITH PIGTAIL TERMINATION FROM WALL BOX TO FLOORBOX. EXTRON DTP 24P SHIELDED TWISTED PAIR CABLE FOR XTP SYSTEMS AND DTP SYSTEMS. PLENUM RATED, AND (1) RS-232 CABLE WITH FEMALE DB9 CONNECTOR. NO SUBSTITUTIONS ALLOWED. PROVIDE SERVICE LOOP ABOVE CEILING AND AT FLOORBOX.
3. COORDINATE FINAL LOCATION OF DISPLAYS WITH ARCHITECT AND AV BOXES WITH MCC AV.



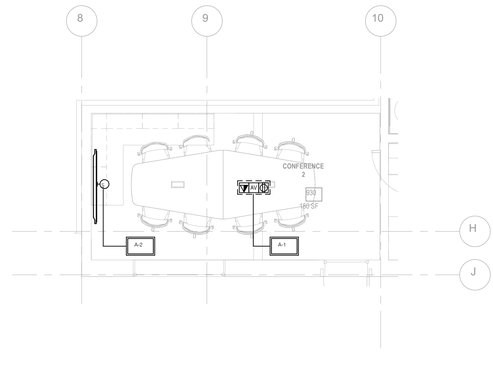
6 CONF RM 924 INFRASTRUCTURE DIAGRAM

SCALE: NTS



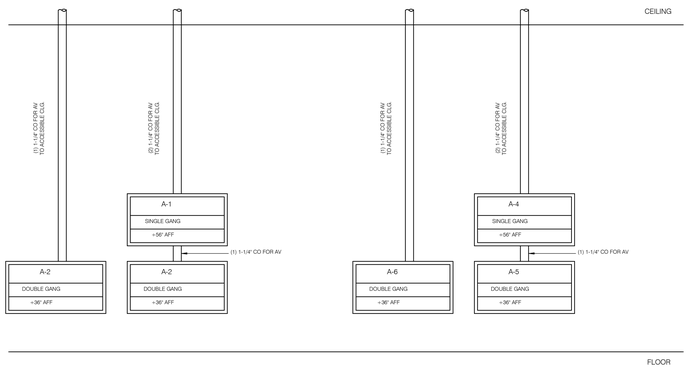
4 ENLARGED AV RCP - CONF. RM 924

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



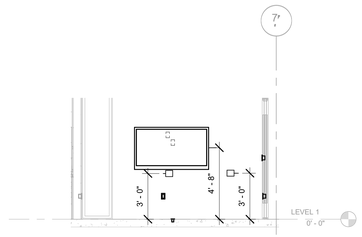
2 ENLARGED AV PLAN - CONF. RM 924

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



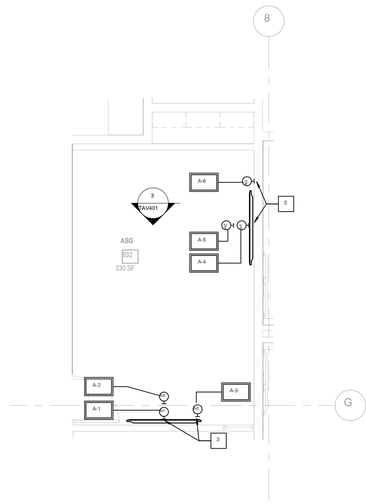
5 ASG RM INFRASTRUCTURE DIAGRAM

SCALE: NTS



3 WALL ELEVATION - ASG RM 925A

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



1 ENLARGED AV PLAN - ASG RM 925A

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

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ARCHITECTURE

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ENLARGED AV PLANS

TAV401

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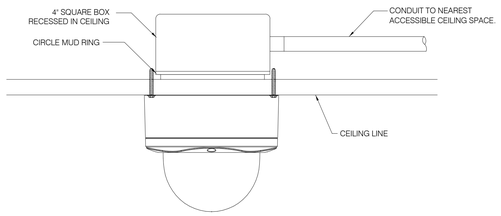
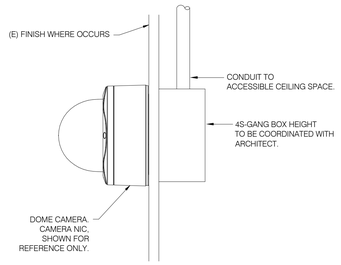


MAXIMUM WEIGHT OF CAMERA = 5LBS.



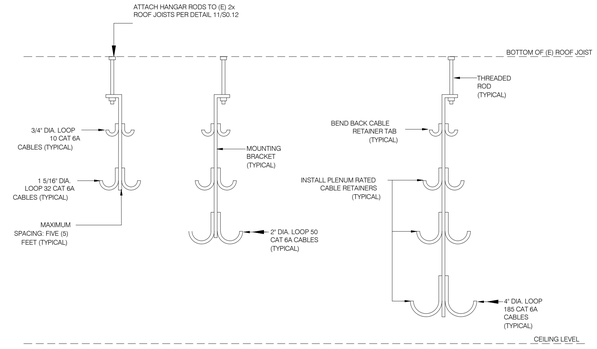
WALL MOUNT

NOTE:

1. MAX CAMERA WEIGHT WILL BE 5 LBS.

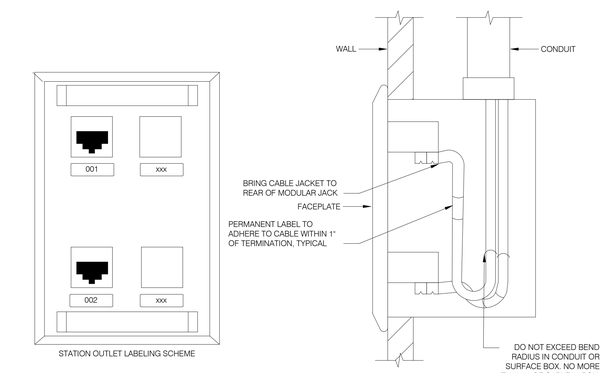
6 CAMERA INFRASTRUCTURE INSTALLATION

NO SCALE



4 TYPICAL J-HOOK INSTALLATION

NO SCALE



STATION OUTLET LABELING SCHEME

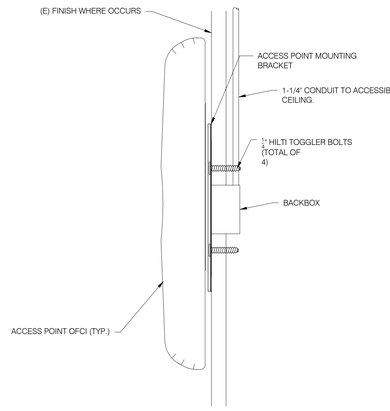
FRONT VIEW

SIDE VIEW

DETAIL NOTES:
COLORS INDICATED ARE FOR STANDARD FACEPLATES. REFER TO TELECOM CONFIGURATION SCHEDULE FOR OTHER COLORS.

2 STANDARD OUTLET

NO SCALE

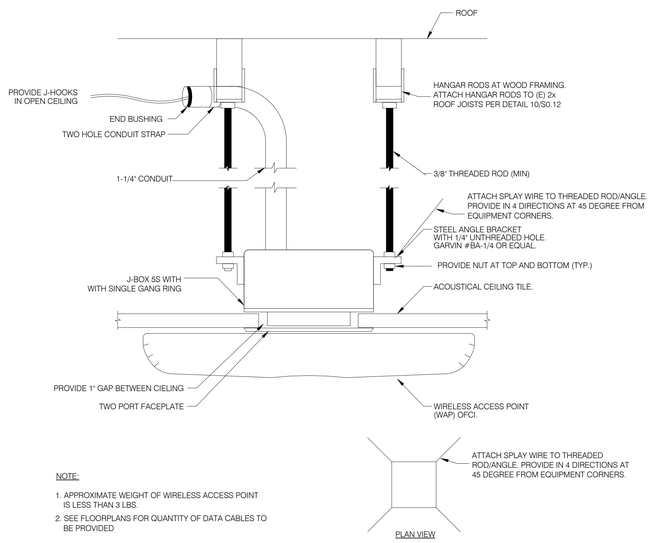


NOTE:

1. APPROXIMATE WEIGHT OF WIRELESS ACCESS POINT IS LESS THAN 3 LBS.
2. SEE FLOORPLANS FOR QUANTITY OF DATA CABLES TO BE PROVIDED

5 TYPICAL INTERIOR WALL MOUNTING

NO SCALE

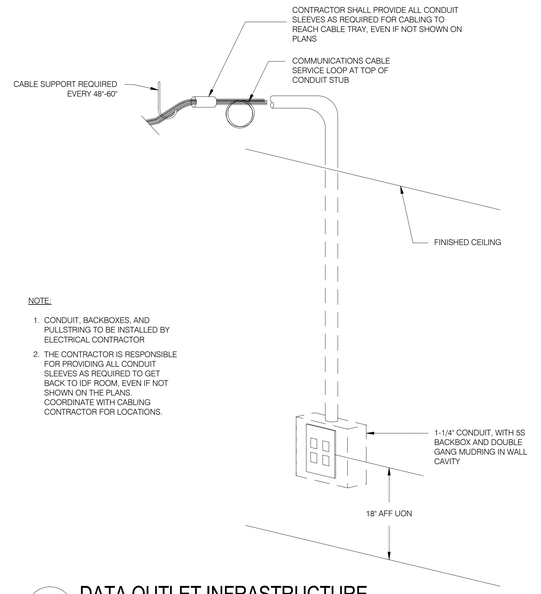


NOTE:

1. APPROXIMATE WEIGHT OF WIRELESS ACCESS POINT IS LESS THAN 3 LBS.
2. SEE FLOORPLANS FOR QUANTITY OF DATA CABLES TO BE PROVIDED

3 CEILING MOUNTED WIRELESS ACCESS POINT

NO SCALE



NOTE:

1. CONDUIT, BACKBOXES, AND PULLSTRING TO BE INSTALLED BY ELECTRICAL CONTRACTOR
2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONDUIT SLEEVES AS REQUIRED TO GET BACK TO IDF ROOM, EVEN IF NOT SHOWN ON THE PLANS. COORDINATE WITH CABLING CONTRACTOR FOR LOCATIONS.

1 DATA OUTLET INFRASTRUCTURE

NO SCALE

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ARCHITECTURE

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DETAILS

T601

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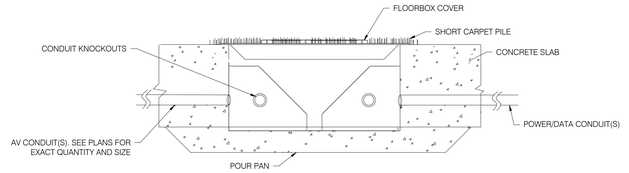
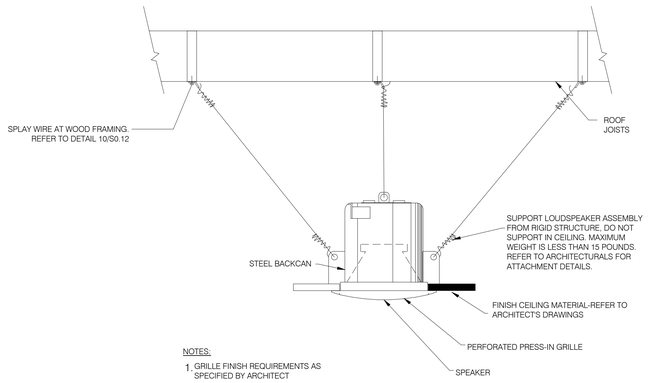
NOTES	
1.	COORDINATE CARPET/TILE FLANGE HEIGHT AND FINISH WITH ARCHITECT
2.	ALL CONDUIT FOR AV ARE ROUTED PER AV INFRASTRUCTURE PLAN
3.	CONDUIT FOR POWER AND DATA ARE ROUTED PER ELECTRICAL AND TELECOM PLANS RESPECTIVELY
4.	FLOORBOX COVER MUST BE FLUSHED WITH FINISHED FLOOR
5.	SEAL EDGES OF PAN TO CREASE DEPRESSED SLAB AT FLOOR BOX LOCATION



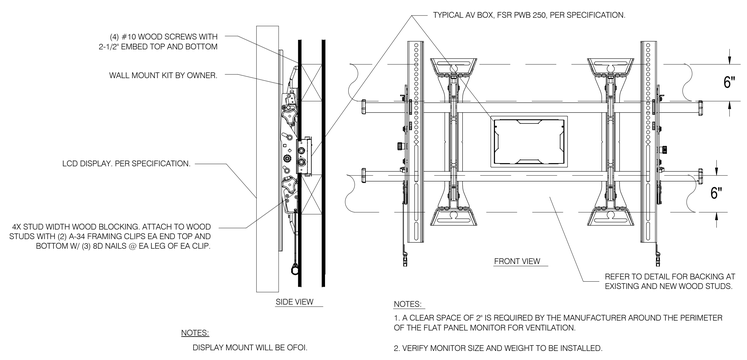
2 LEGRAND RFB11 INFRASTRUCTURE

NO SCALE



3 TYPICAL MOUNTED SPEAKER (NIC)

NO SCALE



NOTES:
DISPLAY MOUNT WILL BE OFOI.

NOTES:
1. A CLEAR SPACE OF 2" IS REQUIRED BY THE MANUFACTURER AROUND THE PERIMETER OF THE FLAT PANEL MONITOR FOR VENTILATION.

2. VERIFY MONITOR SIZE AND WEIGHT TO BE INSTALLED.

1 LED/LCD FLAT PANEL DISPLAY MOUNTING (MOUNT NIC)

NO SCALE

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DETAILS

T602

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DEVICE SCHEDULE

SYMBOL	MODEL	MANUFACTURER	DESCRIPTION	C.S.F.M.
FACP	NSF2-3030	NOTIFIER	FIRE ALARM CONTROL PANEL	7165-0028:0224
VECP	DVC-EM DS-FM	NOTIFIER	DISTRIBUTED AUDIO AMPLIFIER FOR EMERGENCY VOICE EVACUATION	7165-0028:0224
AMP	DAA2-5070 DS-FM	NOTIFIER	DISTRIBUTED AUDIO AMPLIFIER FOR EMERGENCY VOICE EVACUATION	7165-0026:0224
FAPS	FCPS-24S6	NOTIFIER	FIRE ALARM REMOTE POWER SUPPLY	7315-0028:0225
FATC	-	-	FIRE ALARM TERMINAL CABINET	-
DOC	ACE-11	SPACE AGE ELECTRONICS	SYSTEM RECORD DOCUMENT CABINET	7300-0553:0110
ANN	LCD2-80	NOTIFIER	REMOTE ANNUNCIATOR IN ENCLSURE WITH REMOTE MICROPHONE	7165-0028:0224
MIC	RM-11	NOTIFIER	REMOTE MICROPHONE IN ENCLOSURE WITH REMOTE ANNUNCIATOR	7300-0028:0198
DIALER	TG-7FS	TELEGUARD	SYSTEM RECORD DOCUMENT CABINET	7300-1402:0109
ATLAS	IP-ZCM/ ZCM1RMK	ATLAS	ATLAS COMMUNICATION PANEL	-
S	FSP-951 B300-6	NOTIFIER	PHOTOELECTRIC SMOKE DETECTOR DETECTOR BASE	7272-1657:0331 7300-1657:0120
F	NBG-12LX	NOTIFIER	MANUAL PULL STATION	7150-1657:0129
M/I	PAM-1	APOLLO AMERICA	MULTI VOLTAGE CONTROL RELAY	7300-1004:0101
R	FRM-1	NOTIFIER	RELAY MODULE	7300-1657:0121
M	FMM-1	NOTIFIER	MONITOR MODULE	7300-1657:0121
C	FCM-1	NOTIFIER	CONTROL MODULE	7300-1657:0121
	SCWL	NOTIFIER	MULTI-CANDELA CEILING STROBE LED	7125-1657:0510
S	SPSCWL	NOTIFIER	MULTI-CANDELA MULTI-TAP CEILING SPEAKER STROBE (70V NOMINAL) WITH BACKBOX	7320-1657:0211
S WP	SPSWK	NOTIFIER	WEATHERPROOF EXTERIOR WALL SPEAKER STROBE WITH SELECTABLE CANDELA (70V NOMINAL) WITH BACKBOX	7320-1657:0289
EOL	-	-	END OF LINE RESISTOR	-

WIRE LEGEND

WIRE TYPE DESCRIPTION	WIRE DESCRIPTION	USED ON
M	2-CONDUCTOR TWISTED PAIR NON-SHIELDED #16 AWG WEST PENN WIRE #D990 FPLR, CSFM: 7161-0859:0101	SLC ADDRESSABLE DATA CIRCUITS
V	2-CONDUCTOR SOLID #12 AWG	STROBE NOTIFICATION CIRCUIT
S	2-CONDUCTOR TWISTED PAIR SHIELDED #16 AWG WEST PENN WIRE #991 FPLR, CSFM:7161-0859:0101	SPEAKER NOTIFICATION CIRCUIT
P	2-CONDUCTOR TWISTED PAIR NON-SHIELDED #14 AWG WEST PENN WIRE #994 FPLR, CSFM: 7161-0859:0101	AUXILIARY POWER
D	4-CONDUCTOR POWER/DATA #18 AWG WEST PENN WIRE #4245 FPLR, CSFM: 7161-0859:0101	NETWORK/ANNUNCIATOR
N	2-CONDUCTOR POWER/DATA #18 AWG WEST PENN WIRE #4245 FPLR, CSFM: 7161-0859:0101	NETWORK
F	MULTI-MODE 50/125 LC CONNECTORS, CORNING OM2	FIBER/AUDIO RISER
T	SHEILDED CAT6+ ; GENESIS CABLE 5192 CSFM: 7161-1487:0100	TELEPHONE

NOTE:
1. ALARM, TROUBLE, AND SUPERVISORY SIGNALS FROM ALL ADDRESSABLE DEVICES SHALL BE ENCODED ON AN NFPA 72 CLASS B SIGNALING LINE CIRCUIT (SLC).
2. INITIATION DEVICE CIRCUITS (IDC) CONTAINING MORE THAN ONE DEVICE SHALL BE WIREDNFPA 72 CLASS B AS PART OF AN ADDRESSABLE DEVICE CONNECTED BY THE SLC.
3. NOTIFICATION APPLIANCE CIRCUITS (NAC) SHALL BE WIRED CLASS B.
4. PROVIDE WET LOCATION RATED CABLES WHERE INSTALLED UNDERGROUND OUTSIDE THE BUILDING.
5. ALARM SIGNALS ARRIVING AT THE FACP SHALL NOT BE LOST FOLLOWING A PRIMARY POWER FAILURE (OR OUTAGE) UNTIL THE ALARM SIGNAL IS PROCESSED AND RECORDED.

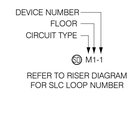
SEQUENCE OF OPERATIONS

ACTION \ DEVICE	MANUAL PULL STATION	AREA SMOKE OR HEAT DETECTOR	DUCT SMOKE DETECTOR	SPRINKLER WATER FLOW SWITCH	SPRINKLER VALVE TAMPER SWITCH	POWER FAILURE
SOUND SPRINKLER BELL	-	-	-	X	-	-
ANNUNCIATE AT FIRE ALARM CONTROL PANEL (ALARM OR TROUBLE)	X	X	X	X	X	X
ANNUNCIATE AT REMOTE FIRE ALARM ANNUNCIATOR (ALARM OR TROUBLE)	X	X	X	X	X	X
ACTIVATE AUDIBLE/ VISUAL ALARM SIGNALS THROUGHOUT BUILDING	X	X	X	X	-	-
ANNUNCIATE AT 24-HOUR ATTENDED REMOTE LOCATION (ALARM AND TROUBLE)	X	X	X	X	X	X
SHUT DOWN AIR HANDLING (HVAC) UNIT >2000 CFM	-	X	X	-	-	-

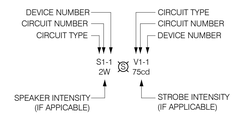
LEGEND

SYMBOL	DESCRIPTION
-	NOTE CALLOUT
- -	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
- -	SECTION CALLOUT
	NEW LINEWORK
	EXISTING LINEWORK
	DEMOLISHED LINEWORK
	CONDUIT CONCEALED IN WALL OR ABOVE CEILING
	CONDUIT EXPOSED
	CONDUIT CONCEALED UNDERGROUND OR BELOW FLOOR
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT CAPPED
A-1	BRANCH CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS AS INDICATED
	FIRE ALARM PANEL, SEE PLANS FOR TYPE
	FIRE ALARM TERMINAL CABINET
	JUNCTION BOX

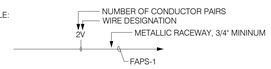
ADDRESSABLE DEVICES/MODULES



NOTIFICATION APPLIANCES



EXAMPLE:



ABOVE EXAMPLE "2V" MEANS "2 PAIRS OF 2#12 UNSHIELDED FPL" (4 CONDUCTORS) ROUTED TO FAPS-1

SCOPE OF WORK

1. PROVIDE A COMPLETE MANUAL AND AUTOMATIC ADDRESSABLE FIRE ALARM WITH VOICE-EVAC SYSTEM FOR CAMPUS. PROVIDE DEVICES AS SHOWN IN THE DEVICE SCHEDULE, THE FLOOR PLANS AND THE SPECIFICATIONS IN THIS CONSTRUCTION DOCUMENT SET.
2. WORK SHALL INCLUDE BUT NOT BE LIMITED TO: THE INSTALLATION AND TESTING OF THE CAMPUS FIRE ALARM SYSTEM, REMOVAL OF THE EXISTING FIRE ALARM SYSTEM, AND TESTING OF A DEDICATED AND INSTALLATION AND PHONE LINE TO THE ELEVATOR FOR EMERGENCY COMMUNICATION. FIBER WIRE SHALL BE RAN, CONNECTED, AND PROGRAMMED TO FIRE ALARM PANEL FOR INTERCONNECTION AMONGST BUILDINGS.
3. WHERE AN EXISTING REQUIRED FIRE PROTECTION SYSTEM IS TAKEN OUT OF SERVICE THE FIRE DEPARTMENT AND FIRE CODE OFFICIAL SHALL BE NOTIFIED. THE OCCUPIED AREA(S) OF A BUILDING LEFT UNPROTECTED WHERE IMPAIRMENTS ARE MADE TO THE FIRE PROTECTION SYSTEM SHALL BE EVACUATED OR PROVIDED WITH A FIRE WATCH FOR ALL OCCUPANTS UNTIL THE FIRE PROTECTION SYSTEM HAS BEEN RETURNED TO NORMAL SERVICE.
4. UPON COMPLETION A COMPLETE PRETEST SHALL BE PERFORMED TO VERIFY FUNCTIONALITY. IF THE FUNCTIONALITY IS COMPLETE THEN THE PROPER DOCUMENTATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO SCHEDULING A FINAL INSPECTION.
5. THE FOLLOWING DOCUMENTATION SHALL BE PROVIDED TO THE OWNER UPON FINAL ACCEPTANCE OF THE SYSTEM:
   - A. OWNER'S MANUAL AND INSTALLATION INSTRUCTION COVERING ALL SYSTEM'S EQUIPMENT AND REQUIREMENTS.
   - B. RECORD SHOP DRAWINGS IN AUTOCAD FORMAT.
   - C. RECORD COPY OF SITE SPECIFIC SOFTWARE (FOR SOFTWARE BASED).
   - D. NFPA 72 RECORD OF COMPLETION DOCUMENTATION.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
&	AND
@	AT
A OR AMP	AMPERES
ABV	ABOVE
AF	AMPERE FUSE RATING
AF	AMPERE FUSE RATING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISH GRADE
AMP	AMPLIFIER
ANN	ANNUNCIATOR
APPROX.	APPROXIMATE
ARCH.	ARCHITECT; ARCHITECTURAL
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BAT	BATTERY
BEL	BELOW
BKBD	BACKBOARD
BLDG	BUILDING
C	CONDUIT
C.O.	CONDUIT ONLY WITH PULL WIRE
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CSFD	COMBINATION SMOKE FIRE DAMPER
CU	COPPER
DD	DUCT DETECTOR
DH	DOOR HOLDER
DIAG	DIAGRAM
DIS	DISCONNECT
DIST	DISTANCE
DWG	DRAWING
DWP	DEPARTMENT OF WATER & POWER
EA	EACH
ELEC.	ELECTRICAL
EM	EMERGENCY
EMH	ELECTRICAL MANHOLE
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EXIST/(E)	EXISTING
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAPS	FIRE ALARM POWER SUPPLY
FATC	FIRE ALARM TERMINAL CABINET
FFE	FINISHED FLOOR ELEVATION
FIN.	FINISH
FIXT	FIXTURE
FLR	FLOOR
FMC	FLEXIBLE METAL CONDUIT
FO	FIBER OBTIC
FP	FIRE PUMP
FT	FEET
FTG	FOOTING
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HTR	HEATER
HZ	HERTZ
IDC	INITIATION DEVICE CIRCUIT
IMC	INTERMEDIATE METAL CONDUIT
J, JB, J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LF	LINEAR FEET
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LGST	LARGEST
LOC.	LOCATION
LOTO	LOCK-OUT & TAG-OUT
LTG	LIGHTING
LV	LOW VOLTAGE
M	METER
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MFGR, MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MTTB	MAIN TELEPHONE TERMINAL BOARD
MV	MULTI-VOLTAGE
N	NORTH
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO.	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
P	POLE
PB	PULL BOX
PIV	POST INDICATING VALVE
PL	PLATE
PNL	PANEL
POC	POINT OF CONNECTION
PREF.	PREFERRED
PRI.	PRIMARY
PVC	POLY-VINYL CHLORIDE
PWR	POWER
REC/RECEPT	RECEPTACLE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMC	RIGID METAL CONDUIT
RPBP	REDUCED PRESSURE BACK FLOW PREVENTER
SCE	SOUTHERN CALIFORNIA EDISON
SF	SQUARE FEET
SHT	SHEET
SIG.	SIGNAL
SLC	SIGNALING LINE CIRCUIT
SP	SPARE
SPECS	SPECIFICATIONS
ST	STREET
STD	STANDARD
STP	SHIELDED TWISTED PAIR
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
T.O.D.	TOP OF DUCTBANK
T.O.M.	TOP OF MANHOLE
TB	TERMINAL BLOCK
TEL./TELE	TELEPHONE
TMH	TELEPHONE MANHOLE
TPS	TWISTED SHIELDED PAIR
TRANSF.,XFMR	TRANSFORMER
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPERES
VAC	VOLTS, ALTERNATING CURRENT
VDC	VOLTS, DIRECT CURRENT
VECP	VOICE/EVACUATION CONTROL PANEL
W	WATTS
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF

IN THE EVENT ABBREVIATIONS NOT MENTIONED HEREIN ARE USED, REFERENCE WILL BE MADE TO ANSI Y1.1, MILITARY STANDARD ABBREVIATIONS, AND OTHER STANDARD INDUSTRY CONVENTIONS.

APPLICABLE CODES

CALIFORNIA BUILDINGS STANDARDS CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24):

PART 1	2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
PART 2	2019 CALIFORNIA CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)
PART 3	2019 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PREVENTION ASSOCIATION, NFPA)
PART 4	2019 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 5	2019 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 6	2019 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.
PART 7	CURRENTLY VACANT
PART 8	2019 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.
PART 9	2019 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2015 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)
PART 10	2019 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)
PART 11	2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), TITLE 24 C.C.R.
PART 12	2016 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS:
2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 14	STANDPIPE SYSTEMS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTENS	2017 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2016 EDITION
NFPA 20	STATIONARY PUMPS	2016 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR VISUAL DEVICES')	2016 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENINGS PROTECTIVES	2016 EDITION

WIRE FILL CHART

TRADE SIZE	INTERNAL DIAMETER INCHES	AREA - SQUARE INCHES								
		TOTAL 100%	PERCENT REDUCTION PER NUMBER OF 18AWG TWISTED SHIELDED PAIRS							
			OVER 2 COND. 40%	1	2	3	4	5	6	7	8
1/2	0.622	0.30	0.12	33%	66%	99%	X	X	X	X	X
3/4	0.824	0.53	0.21	19%	38%	57%	76%	95%	X	X	X
1	1.049	0.86	0.34	12%	24%	36%	48%	60%	72%	84%	96%
1 1/4	1.380	1.50	0.60	7%	14%	21%	28%	35%	42%	49%	56%
1 1/2	1.610	2.04	0.82	5%	10%	15%	20%	25	30%	35%	40%
2	2.067	3.36	1.34	3.00%	6%	9%	12%	15%	18%	21%	24%

GENERAL NOTES

1. CONTROL CIRCUITS ARE NON POWER LIMITED. MINIMUM RECOMMENDED WIRE SIZE TO BE DETERMINED BY CIRCUIT LOAD.
2. WIRING SHALL NOT BE LOOPED THROUGH DEVICES UPON TERMINATION. WIRE MUST BE CUT FOR IN AND OUT RUNS PRIOR TO DEVICE TERMINATION.
3. WHERE SHIELDED CABLE IS USED, THE SHIELD SHALL BE CONTINUOUS AND GROUNDED ONLY AT THE RESPECTIVE CONTROL PANEL.
4. T-TAPPING OR PARALLEL BRANCHING OF NOTIFICATION APPLIANCE DEVICE CIRCUITS IS PROHIBITED ON CLASS A CIRCUITS.
5. ELECTRICAL CONTRACTOR IS REQUIRED TO USE: COLOR CODE, WIRE NUMBERS, OR AS SPECIFIED IN THE PROJECT SPECIFICATIONS ON ALL CIRCUITS AND SHALL BE CONTINUOUS, OTHERWISE, NO FINAL CONNECTIONS OR TESTING SHALL BE PERFORMED. IF WIRE COLOR CODING IS USED, GREEN WILL BE USED FOR GROUND BONDING ONLY.
6. POINT AND COMMON ANNUNCIATION AND T-TAPPING PROHIBITED.
7. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANELS SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. (FIRE ALARM CONTROL PANEL(S) TO SUPERVISE ANNUNCIATOR PANEL(S), SUB-PANEL(S), ALL CIRCUITS AND INITIATING DEVICES).
8. FIRE ALARM SIGNAL SHALL MEET ANSI S3.41, AUDIBLE EMERGENCY EVACUATION SIGNAL (TEMPORAL PATTERN).
9. AUDIBILITY OF ALARM SHALL BE NOT LESS THAN 15DB ABOVE AMBIENT SOUND THROUGHOUT THE AREA OF ALARM.
10. ALL STROBE APPLIANCES SHALL BE SYNCHRONIZED IN ACCORDANCE WITH NATIONAL FIRE ALARM CODE (NFPA 72). REFERENCE APPLICABLE EDITIONS UNDER "APPLICABLE CODES & REGULATIONS".
11. STROBE APPLIANCE LOCATIONS ARE BASED ON 10 FOOT CEILING HEIGHTS AND ARE INSTALLED IN ACCORDANCE WITH NATIONAL FIRE ALARM CODE (NFPA 72) UNLESS OTHERWISE NOTED. REFERENCE APPLICABLE EDITIONS UNDER "APPLICABLE CODES & REGULATIONS".
12. WALL-MOUNTED STROBE AND HORN/STROBE APPLIANCES SHALL BE MOUNTED A MINIMUM OF 80 INCHES ABOVE FINISHED FLOOR OR 6 INCHES MINIMUM BELOW THE CEILING, (WHICH EVER IS LOWER). MEASUREMENT ARE TO BE TAKEN FROM BOTTOM OF STROBE.
13. PHOTOELECTRIC DETECTORS SHALL NOT BE IN DIRECT AIR STREAM SUPPLY AIR OUTLETS.
14. REFER TO RESPECTIVE CATALOG CUT SHEETS FOR ELECTRICAL MOUNTING HARDWARE.
15. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.
16. AUDIBILITY WILL BE DETERMINED BY THE FIELD FIRE MARSHAL.
17. ALL FIRE ALARM CIRCUITS SHALL BE LABELED AT CONNECTIONS AND AT JUNCTION BOXES.
18. DUCT SMOKE DETECTORS SHALL BE TESTED FOR DUCT VELOCITY AND PRESSURE DIFFERENTIAL IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
19. DIFFERENTIAL PRESSURE SWITCHES SHALL BE SUPPLIED AND INSTALLED BY A LICENSED MECHANICAL CONTRACTOR. THE ELECTRICAL CONNECTION TO THE DIFFERENTIAL PRESSURE SWITCH SHALL BE MADE BY THE FIRE ALARM CONTRACTOR.
20. UNLESS OTHERWISE NOTED ALL WIRING AND INSTALLATION METHODS SHALL CONFORM TO CALIFORNIA ELECTRICAL CODE (CEC), ARTICLE 760. SEE APPLICABLE EDITION UNDER "APPLICABLE CODES & REGULATIONS".
21. ALL WIRE CONDUCTORS SHALL BE POWER LIMITED COPPER WIRING AND INSTALLED WITHIN A METALLIC RACEWAY.
22. PER SPECIFICATION CONDUIT RISERS SHALL BE INSTALLED INSIDE A TWO HOUR FIRE RATED ENCLOSURE PROVIDED BY OTHERS. HORIZONTAL OFFSET CONDUITS AND JUNCTION BOXES SHALL BE PROTECTED BY TWO HOUR FIRE RATED ENCLOSURES PROVIDED BY OTHERS.
23. ALL RACEWAY RUNS INDICATED WITHIN THIS DRAWING PACKAGE ARE SHOWN DIAGRAMMICALLY AND ARE FOR CIRCUITING PURPOSES ONLY. ALL RUNS SHOWN SHOULD NOT SERVE IN ANY WAY AS AN ACTUAL ROUTING GUIDE FOR INSTALLATION OF RACEWAYS. EXACT INSTALL LOCATION SHALL BE FIELD DETERMINED.
24. ADDITIONAL JUNCTION BOXES NOT SHOWN MAY BE REQUIRED TO ACCOMMODATE PROPER RACEWAY INSTALLATIONS. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO DETERMINE THE NECESSARY AMOUNT OF JUNCTION BOXES REQUIRED.
25. SUBMITTED DRAWING PACKAGE MUST BE REVIEWED BY UNIVERSITY REPRESENTATIVE AND ONE COPY OF THE REVIEWED DRAWING AND SUBMITTAL MUST BE RETURNED TO SIEMENS BEFORE ANY EQUIPMENT IS SHIPPED OR INSTALLED. CUSTOM ANNUNCIATORS WILL NOT BE FABRICATED UNTIL WRITTEN APPROVAL OF LAYOUT AND/OR ARTWORK IS RECEIVED.
26. FOR INSPECTION AND OR TESTING THE FIRE MARSHAL SHALL BE NOTIFIED FOR SCHEDULING AN APPOINTMENT.
27. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.
28. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD. THE STRICTER REQUIREMENT WILL PREVAIL.
29. A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES SHALL BE APPROVED BY THE FIRE MARSHAL.
30. UPON COMPLETION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE MARSHAL.
31. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.
32. REFER TO THE SPECIFICATIONS BOOK FOR ADDITIONAL REQUIREMENTS.
33. MONITORING SHALL BE PROVIDED BY THE OWNER.

SHEET INDEX

SHEET	DESCRIPTION
FA001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
FA002	DEMOLITION NOTES
FA101	SITE PLAN
FA201	FLOOR PLANS
FA501	RISER DIAGRAM
FA502	FIRE ALARM CALCULATIONS
FA601	DETAILS
FA602	DETAILS
FAD201	DEMOLITION FLOOR PLANS

DSA FILE NO. 37-C2 A# 04-119030

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ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

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100% CONSTRUCTION DOCUMENS

MIRACOSTA COLLEGE

CONSULTANT

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ENGINEER

ARCHITECT

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

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GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX

FA001

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DEMOLITION NOTES

1. WORK INCLUDED: LABOR, MATERIAL, APPLIANCES, TOOLS, EQUIPMENT, FACILITES, TRANSPORTATION AND SERVICES NECESSARY AND INCIDENTIAL TO PERFOMING ALL OPERATIONS IN CONNECTION WITH THE DEMOLITION, DISPOSAL,TRANSPORTATION AND RECONNECTION OF EXISTING REMAINING EQUIPMENT/ DEVICES. COMPLETE AS INDICATED IN THE CONTRACT DOCUMENTS AS SPECIFIED HEREIN.

2. THE FOLLOWING IS INTENDED TO COVER THE COMPLETE DEMOLITION, DISPOSAL, TRANSPORTATION AND RECONNECTION OF EXISTING FIRE ALARM EQUIPMENT. THE OMISSION OF EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIAL FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.

3. REFER TO THE CONTRACT DOCUMENTS FOR ADDITIONAL DEMOLITION REQUIREMENTS WHICH AFFECT THE PROPER EXECUTION OF THIS WORK. DIAGRAMS AND SYMBOLS SHOWING FIRE ALARM ARE DIAGRAMMATIC ONLY. WIRING DIAGRAMS DO NOT NECESSARILY SHOW THE EXACT PHYSICAL ARRANGEMENT OF THE EQUIPMENT.

4. IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL FEATURES OF THE BUILDING AND SITE WHICH MAY AFFECT THE PROPER PERFORMANCE OF THIS WORK.

5. PORTIONS OF THESE PLANS HAVE BEEN DERIVED FROM INFORMATION TAKEN FROM ORIGINAL FIRE ALARM PLANS. THE INTENT OF THE DRAWINGS AND SPECIFICATION IS TO PROVIDE FOR THE REMOVAL AND DISPOSAL OF ALL FIRE ALARM EQUIPMENT, DEVICES, BOXES, CONDUIT, WIRING, ETC. AS DEFINED HERIN AND AS INDICATED ELSEWHERE IN THE CONTRACT DOCUMENTS.

6. IT IS UNDERSTOOD AND AGREED THAT THIS CONTRACT DOES NOT CONTEMPLATE THE HANDLING OF ASBESTOS, PCB OR ANY HAZARDOUS WASTE MATERIAL. IF ABESTOS, PCB OR ANY HAZARDOUS WASTE MATERIAL IS ENCOUNTERED, NOTIFY THE ELECTRICAL ENGINEER IMMEDIATELY. DO NOT DISTURB, HANDLE OR ATTEMPT TO REMOVE.

7. THE SCOPE OF DEMOLITION WORK SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:

   A. SUBMIT PROPOSED OUTAGE SCHEDULE. PROVIDE A SEQUENCE OF DEMOLITION TO INSURE THE UNINTERRUPTED USE OF OCCUPIED PORTIONS OF THE FACILITY WHICH ARE TO REMAIN OPERATIONAL DURING THE CONTRACT PERIOD.

   B. SYSTEM OUTAGES SHALL BE PERMITTED ONLY AT TIMES APPROVED BY OWNER. IN WRITING. WORK WHICH COULD RESULT IN AN ACCIDENTAL OUTAGE SHALL BE PERFOMRED WITH THE OWNERS MAINTENANCE PERSONNEL ADVISED OF SUCH WORK.

   C. REMOVED MATERIALS AND EQUIPMENT WHICH IN THE OPINION OF THE OWNER ARE SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGE MATERIALS AND EQUIPMENT ON PREMISES AS DIRECTED, NEATLY PILE OR ARRANGE THEM AND PROTECT FROM DAMAGE. DO NOT REUSE MATERIALS AND EQUIPMENT UNLESS SPECIFICALLY INDICATED ON PLANS OR SPECIFIED. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

   D. PERFORM CUTTING AND PATCHING OF THE CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER DEMOLITION. PATCHING SHALL BE OF THE SAME MATERIAL, THICKNESS, WORKMANSHIP AND FINISH AS EXISTING AND ACCURATELY MATCH SURROUNDING WORK TO THE SATISFACTION OF THE OWER, CUTTING OF STRUCTURAL MEMBERS SHALL NOT BE DONE.

      a. PATCHING OF OPENINGS IN RATED PARTITIONS, BARRIERS, FLOORS, CEILINGS, ETC. SHALL BE EXECUTED USING UL AND NEPA FIRE STOP MATERIAL EQUAL TO THE FIRE RATINGS OF THE PENETRATED SURFACE.

      b. WHERE MATERIALS AND EQUIPMENT HAVE BEEN REMOVED AND NOT REPLACED THE EXPOSED SURFACE SHALL BE PAINTED TO MATCH SURROUNDING SURFACE COLOR.

   E. EXCEPT AS NOTED OTHERWISE DISCONNECT AND REMOVE EXISTING FIRE ALARM SYSTEM EQUIPMENT, DEVICES, MOUNTING HARDWARE AND ASSOCATIED RACEWAYS, CONDUCTORS AND OUTLET BOXES, WHERE OUTLET BOXES ARE FLUSH AND CONDUITS ARE CONCEALED IN EXISTING REMAINING WALLS, REMOVE WIRING AND ABANDON CONDUITS IN PLACE.

   F. WHERE EXISTING WALL AND CEILINGS ARE TO REMAIN, PROVIDE BLANK COVER PLATES FOR OUTLETS WHERE EQUIPMENT OR DEVICES ARE REMOVED UNDER THIS CONTRACT. PRIME BLANK PLATES AND PAINT TO MATCH SURROUNDING AREA.

   G. WHERE FIXTURES, EQUIPMENT, DEVICES, ETC. ARE SPECIFIED BY THE CONTRACT DOCUMENTS FOR REMOVAL, THE CONTRACTOR SHALL REMOVE ALL CIRCUIT CONDUCTORS/CABLING BACK TO THE NEAREST REMAINING POINT OF TERMINATION.

   H. PROVIDE ADDITIONAL CONDUIT, CONDUCTORS, CABLING, OUTLET BOXES, ETC. AS REQUIRED FOR THE RELOCATION OF APPARATUS.

   I. PROVIDE NECESSARY DEMOLITION TO REMOVE EXISTING UNUSED RACEWAYS, CONDUCTORS, CABLING, OUTLET BOXES, RECEPTACLES, SWITCHES, EQUIPMNET, ETC.

   J. WHERE IT IS NOT FEASIBLE TO REMOVE UNUSED FLUSH MOUNTED OUTLET BOXES AND CONCEALED RACEWAYS IN EXISTING, REMAINING WALLS AND/OR CEILINGS REMOVE ALL WIRING AND PROVIDE BLANK COVER PLATES OVER OUTLET BOXES.

   K. ALL CONDUITS RISING FROM BELOW GRADE TO AREAS WHERE PARTITIONS, WALLS, AND/OR OTHER CONSTRUCTION ENTITIES ARE INDICATED AS BEING REMOVED SHALL BE CUT TO BELOW FINISH FLOOR, CAPPED AND ABANDONED. PROVIDE PATCHING AS REQUIRED. SEAL IN A MANNER ACCEPTABLE TO THE OWNER.

   L. COVER UNUSED AND/OR ABANDONED OUTLETS WITH BLANK COVER PLATES.

   M. SEAL ALL ABANDONED FLOOR PENETRATIONS IN A MANNER ACCEPTABLE TO THE OWNER.

   N. PROVIDE WEATHERPROOF CAPS ON ABANDONED CONDUITS PENETRATING THE ROOF. REPAIR ROOFING DAMAGED BY REMOVAL OF EXISTING EQUIPMENT.

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MIRACOSTA COMMUNITY COLLEGE DISTRICT

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DEMOLITION NOTES

FA002

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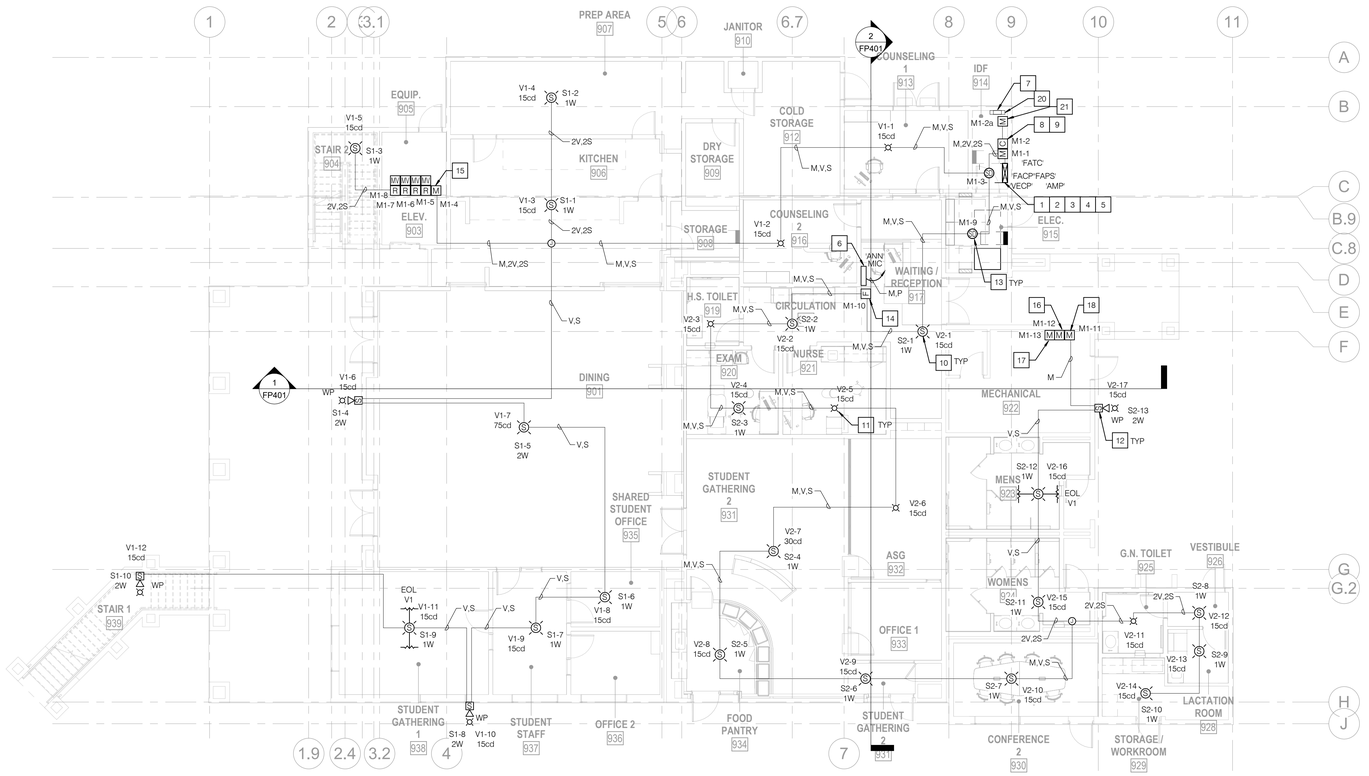
SITE PLAN

FA101



1 FIRST FLOOR FIRE ALARM PLAN

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

GENERAL NOTES

A. REFER TO DEVICE SCHEDULE ON FA001 FOR MORE INFORMATION.

B. REFER TO RISER DIAGRAM ON FA501 FOR MORE INFORMATION.

C. REFER TO DETIALS ON FA601, FA602, AND FA603 FOR MORE INFORMATION.

D. PROVIDE NONMENTALLIC SURFACE MOUNTED RACEWAY WHERE WALLS AND CEILINGS ARE NOT ACCESSIBLE.

E. CONEAL ALL WIRES IN CEILING ABOVE TYP. AND WALLS IN CONDUIT.

F. EXISTING FIRE ALARM PANEL AND CELL DIALER IS A CENTRAL PANEL FOR MOST CAMPUS BUILDINGS WHICH ARE ATTACHED TO THE PANEL VIA FIBER. PANEL SHALL STAY ONLINE, FUNCTIONING AND FREE OF TROUBLES, MINIMIZE INTERRUPTIONS TO THIS SYSTEM. COORDINATE WITH DISTRICT FOR A ONE DAY SHUTDOWN FOR THE REPLACEMENT AND RECONNECTION OF BUILDINGS TO THE NEW PANEL

NOTES

1. REMOVE EXISITNG FA PANELS AND INSTALL AND RECONNECT NEW FIRE ALARM CONTROL PANEL AND EMERGENCY VOICE EVACUATION PANEL IN SAME EXISTING PLACE.
2. PROVIDE REMOTE POWER SUPPLY.
3. PROVIDE REMOTE AMPLIFER.
4. PROVIDE FIRE ALARM TERMINCAL CABINET.
5. PROVIDE DOCUMENT CABINET.
6. PROVIDE ANNUNCIATOR PANEL WITH MIC.
7. PROVIDE CAMPUS DIALER.
8. PROVIDE MONITOR MOUDLE AT REMOTE POWER SUPLLY FOR STATUS MONITORING.
9. PROVIDE CONTROL MODULE AT REMOTE POWER SUPPLY FOR STATUS MONITORING.
10. PROVIDE CEILING SPEAKER STROBE.
11. PROVIDE CEILING STROBE.
12. PROVIDE WEATHERPROOF WALL SPEAKER STROBE.
13. PROVIDE SMOKE DETECTOR.
14. PROVIDE MANUAL PULL STATION.
15. PROVIDE MONITOR MODULE, RELAY MODULES, AND MULTIVOLTAGE CONTROL RELAY FOR ELEVATOR RECALL.
16. PROVIDE MONITOR MODULE FOR FLOW SWITCH. THE INSTALL SHALL BE DONE BY THE FIRE SPRINKLER CONTRACTOR AND COORDINATE THE EXACT LOCATION.
17. PROVIDE MONITOR MODULE FOR TAMPER SWITCH. THE INSTALL SHALL BE DONE BY THE FIRE SPRINKLER CONTRACTOR AND COORDINATE THE EXACT LOCATION.
18. PROVIDE MONITOR MODULE FOR FIRE SPRINKLER BELL. THE INSTALL SHALL BE DONE BY THE FIRE SPRINKLER CONTRACTOR AND COORDINATE THE EXACT LOCATION.
19. PROVIDE MULTI-VOLTAGE RELAY AND DUCT DETECTOR FOR MECHANICAL UNIT SHUTDOWN.
20. PROVIDE ATLAS COMMUNICATOR PANEL.
21. PROVIDE MONITOR MODULE FOR ATLAS COMMUNICATOR MODULE.

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

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FLOOR PLANS

FA201

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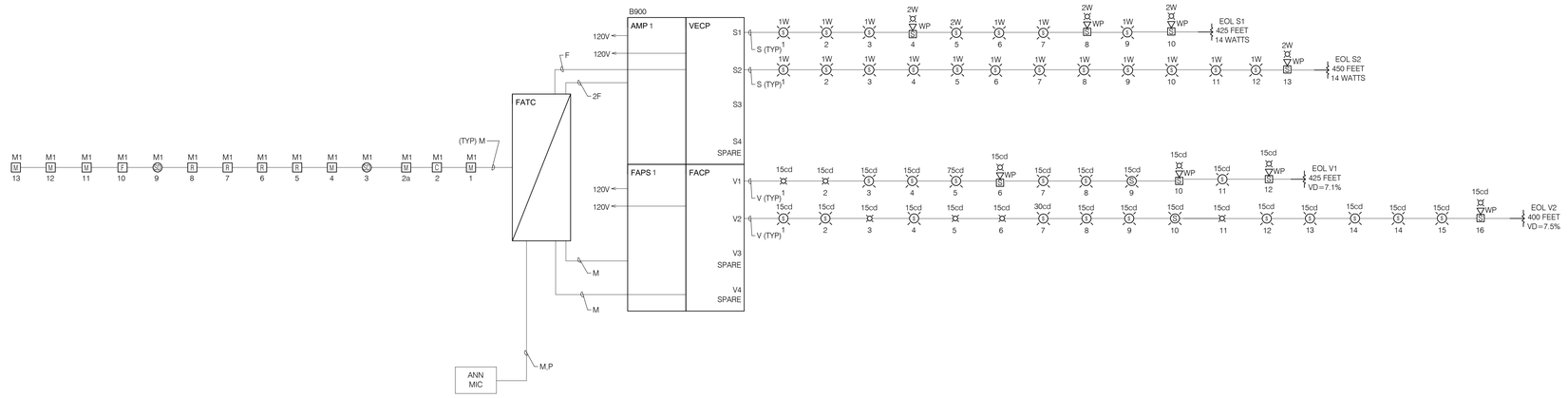
GENERAL NOTES

1. REFER TO DEVICE SCHEDULE ON FA001 FOR MORE INFORMATION.
2. REFER TO FLOOR PLANS FOR MORE INFORMATION.
3. REFER TO DETIALS ON FA601 AND FA602 FOR MORE INFORMATION.
4. PROVIDE 120V/1Ø/20A DEDICATED CIRCUIT TO FIRE ALARM PANELS. THE CIRCUIT BREAKER SHALL INCLUDE A BREAKER LOCKING DEVICE, SHALL BE PERMANENTLY LABELLED "FIRE ALARM/ECS", AND SHALL INCLUDE A RED IDENTIFYING MARK WHICH DOES NOT OBSCURE THE MANUFACTURES MARKINGS.



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ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

3333 Manchester Ave, Cardiff, CA 92007

100% CONSTRUCTION DOCUMENS

MIRACOSTA COLLEGE

CONSULTANT

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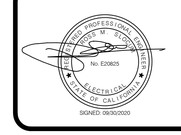
ENGINEER



ARCHITECT

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
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RISER DIAGRAM

FA501

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Battery Capacity Calculation Sheet
AMP-1.1 + AMP-1.2

Location:

Quantity	Description	Unit Standby Current (A)	Total Standby Current (A)	Unit Alarm Current (A)	Total Alarm Current (A)
	PANEL EQUIPMENT - VOICE/EVACUATION				
2	50W, 70V Amplifier (DAA-5070)	0.100000	0.200000	0.580000	1.160000
0	Speaker Circuit Expander (NFC-CE4)	0.020000	0.000000	0.180000	0.000000
2	Fiber Option Module (DS-FM)	0.050000	0.100000	0.200000	0.400000
	NOTIFICATION APPLIANCES - SPEAKER				
1	SPEAKER CIRCUIT S1	0.000000	0.000000	0.198020	0.198020
1	SPEAKER CIRCUIT S2	0.000000	0.000000	0.183876	0.183876
1	SPEAKER CIRCUIT S3	0.000000	0.000000	0.000000	0.000000
1	SPEAKER CIRCUIT S4	0.000000	0.000000	0.000000	0.000000
	SUB TOTAL		0.300		1.942

BATTERY CALCULATIONS

ASSUMPTIONS:

A - BATTERY BACKUP - STANDBY (HOURS)	24
B - BATTERY BACKUP (MINUTES)	15
C - ALLOWABLE ERROR (%)	20%
D - TOTAL STANDBY BACKUP (AMP-HOUR)	7.200
E - TOTAL ALARM BACKUP (AMP-HOUR)	0.485
F - ALLOWABLE ERROR (C x (D + E))	1.537
TOTAL AMP-HOUR REQUIRED (D+E+F)	9.223
BATTERY SUBMITTED	**12 AH**

Battery Capacity Calculation Sheet
FAPS-1

Location:

Quantity	Description	Unit Standby Current (A)	Total Standby Current (A)	Unit Alarm Current (A)	Total Alarm Current (A)
	PANEL EQUIPMENT - FIRE ALARM				
1	MAIN CIRCUIT BOARD (FCPS-24FS8)	0.091000	0.091000	0.145000	0.145000
1	CLASS A MODULE (ZNAC-4)	0.005000	0.005000	0.010000	0.010000
1	POWER SUPERVISION RELAY (EOLR-1)	0.025000	0.025000	0.025000	0.025000
	NOTIFICATION APPLIANCES - STROBE				
1	VISUAL CIRCUIT V1	0.000000	0.000000	0.865000	0.865000
1	VISUAL CIRCUIT V2	0.000000	0.000000	0.738000	0.738000
1	VISUAL CIRCUIT V3	0.000000	0.000000	0.000000	0.000000
1	VISUAL CIRCUIT V4	0.000000	0.000000	0.000000	0.000000
	SUB TOTAL		0.121		1.783

BATTERY CALCULATIONS

ASSUMPTIONS:

A - BATTERY BACKUP - STANDBY (HOURS)	24
B - BATTERY BACKUP (MINUTES)	15
C - ALLOWABLE ERROR (%)	20%
D - TOTAL STANDBY BACKUP (AMP-HOUR)	2.904
E - TOTAL ALARM BACKUP (AMP-HOUR)	0.446
F - ALLOWABLE ERROR (C x (D + E))	0.670
TOTAL AMP-HOUR REQUIRED (D+E+F)	4.020
BATTERY SUBMITTED	**7 AH**

Battery Capacity Calculation Sheet
FACP and VECP

Location: IDF 914

Quantity	Description	Unit Standby Current (A)	Total Standby Current (A)	Unit Alarm Current (A)	Total Alarm Current (A)
	PANEL EQUIPMENT - FIRE ALARM				
1	MAIN CPU WITH POWER SUPPLY (CPU2-640)	0.220000	0.220000	0.220000	0.220000
1	LOOP EXPANDER MODULE (LEM-320)	0.070000	0.070000	0.072000	0.072000
1	NETWORK CONTROL ANNUNCIATOR (NCA-2)	0.001000	0.001000	0.065000	0.065000
1	REMOTE ANNUNCIATOR (LCD2-80)	0.001000	0.001000	0.065000	0.065000
1	TRANSMITTER (U-DACT2)	0.100000	0.100000	0.040000	0.040000
	PANEL EQUIPMENT - EMERGENCY VOICE/EVACUATION				
1	DIGITAL VOICE COMMAND (DVC-EM)	0.272000	0.272000	0.446000	0.446000
1	DIGITAL KEYPAD DISPLAY (DVC-KD)	0.100000	0.100000	0.235000	0.235000
1	REMOTE MICROPHONE (RM-1)	0.050000	0.050000	0.064000	0.064000
1	REMOTE AMPLIFIER (DAA2-5070)	0.012000	0.012000	0.230000	0.230000
2	FIBER OPTION MODULE (DS-FM)	0.050000	0.100000	0.200000	0.400000
	INITIATING DEVICES				
0	DUCT SMOKE DETECTOR	0.000300	0.000000	0.007200	0.000000
1	MANUAL PULL STATION	0.000375	0.000000	0.005000	0.005000
2	SMOKE DETECTOR	0.000300	0.000600	0.005000	0.010000
0	HEAT DETECTOR	0.000300	0.000000	0.005000	0.000000
4	MULTIVOLTAGE RELAY	0.000000	0.000000	0.015000	0.060000
6	MONITOR MODULE	0.000375	0.002250	0.005000	0.030000
1	CONTROL MODULE	0.000375	0.000375	0.005000	0.005000
4	RELAY MODULE	0.000255	0.001020	0.006500	0.026000
	SUB TOTAL		0.930		1.973

BATTERY CALCULATIONS

ASSUMPTIONS:

A - BATTERY BACKUP - STANDBY (HOURS)	24
B - BATTERY BACKUP (MINUTES)	15
C - ALLOWABLE ERROR (%)	20%
D - TOTAL STANDBY BACKUP (AMP-HOUR)	22.326
E - TOTAL ALARM BACKUP (AMP-HOUR)	0.493
F - ALLOWABLE ERROR (C x (D + E))	4.564
TOTAL AMP-HOUR REQUIRED (D+E+F)	27.383
BATTERY SUBMITTED	**55 AH**

SPEAKER CIRCUIT LOAD CALCULATION | **MAX dB LOSS PER CIRCUIT = (-0.50 dB)**

AMPLIFIER	CIRCUIT	DESCRIPTION	VOLTAGE (25V OR 70.7V)	SPEAKER QUANTITIES 0.25 WATTS	0.5 WATTS	1 WATTS	2 WATTS	CIRCUIT WATTAGE	OUTGOING PATH LENGTH (FEET)	RETURN PATH LENGTH (FEET)	COMBINED PATH LENGTH (FEET)	CIRCUIT RESISTANCE (OHMS)	VOLTAGE DROP FROM 70.7V	TOTAL dB LOSS
AMP-1.1	**S1**	AUDIBLE/VOICE NAC	70.7 Vrms			6	4	14	425	425	850	5.22	1.03	**-0.13**
	S2	AUDIBLE/VOICE NAC	70.7 Vrms			12	1	14	450	450	900	5.53	1.09	**-0.14**
AMP-1.2	**S3**	AUDIBLE/VOICE NAC	70.7 Vrms							0	0	0.00	0.00	**0.00**
	S4	AUDIBLE/VOICE NAC	70.7 Vrms							0	0	0.00	0.00	**0.00**

VOLTAGE DROP CIRCUIT SCHEDULE

PANEL	CIRCUIT	WALL STROBE 15cd 0.043	CLG. STROBE 15cd 0.041	WALL STROBE 30cd 0.063	CLG. STROBE 30cd 0.063	WALL STROBE 75cd 0.107	CLG. STROBE 75cd 0.111	WALL STROBE 95cd 0.121	CLG. STROBE 95cd 0.134	WALL STROBE 110cd 0.148	CLG. STROBE 115cd 0.158	WALL STROBE 135cd 0.172	CLG. STROBE 150cd 0.189	WALL STROBE 185cd 0.222	CLG. STROBE 177cd 0.226	Bell 0.054	EXT. STROBE 15/75cd 0.142	TOTAL CURRENT AT 16VDC (AMPS)	OUTGOING PATH LENGTH (FEET)	COMBINED PATH LENGTH (FEET)	CIRCUIT RESISTANCE (OHMS)	VOLTAGE DROP FROM 20.4V (MAX 4.4V)	PRECENT VOLTAGE DROP FROM 20.4V (MAX 21.6%)	SPARE CIRCUIT CAPACITY BASED ON VOLTAGE DROP	VOLTAGE AT LAST DEVICE (MIN 16V)	DESCRIPTION
FAPS-1	**V1**		8				1										3	0.865	425	425	1.68	1.46	7.1%	66.9%	**18.9**	VISUAL NAC
	V2		15		1												1	0.820	400	425	1.68	1.38	7.5%	68.6%	**19.0**	VISUAL NAC
	V3																	0.000		0	0.00	0.00	0.0%	100.0%	**20.4**	VISUAL NAC
	V4																	0.000		0	0.00	0.00	0.0%	100.0%	**20.4**	VISUAL NAC
																		1.685		0						

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SIGNED: 06/30/2020

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CLIENT
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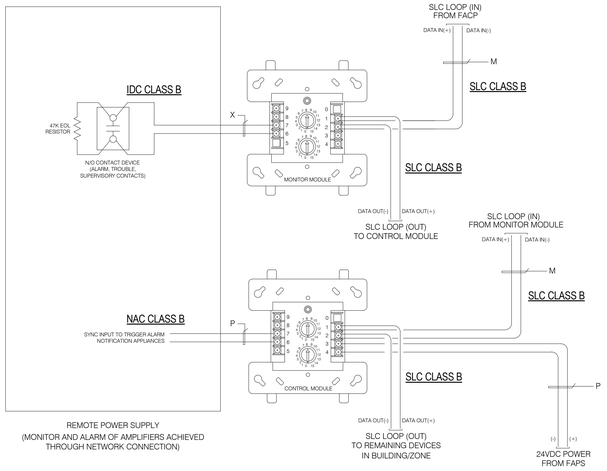
FIRE ALARM CALCULATIONS

FA502



6 REMOTE PANEL MODULES AND WIRING

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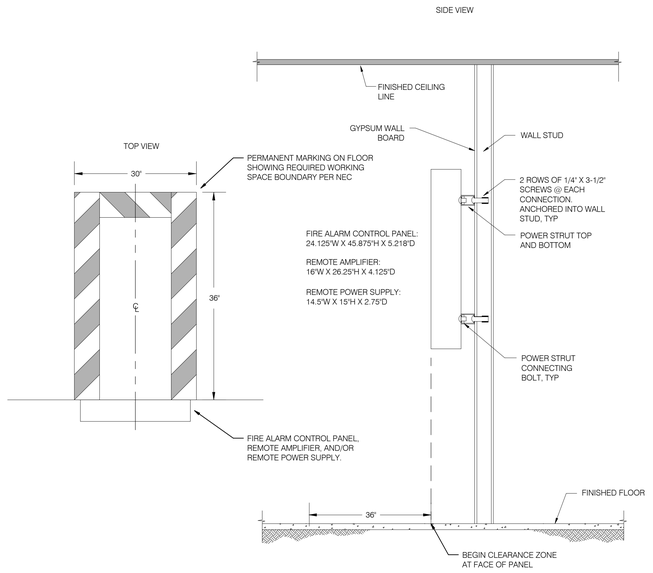

4 FIRE ALARM PANEL MOUNTING

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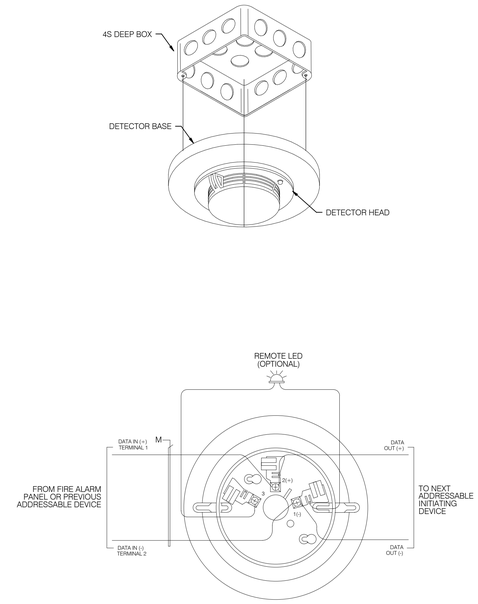
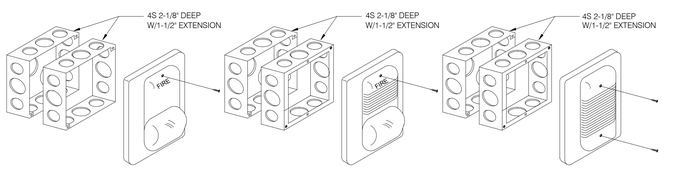
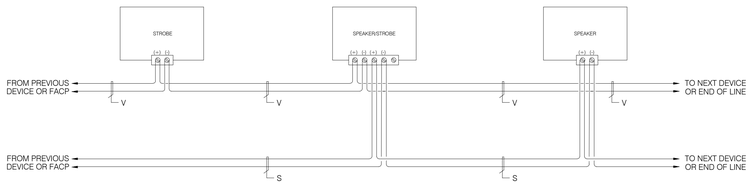


2 SMOKE DETECTOR OR HEAT DETECTOR

NO SCALE





5 STROBE OR SPEAKER OR SPEAKER-STROBE

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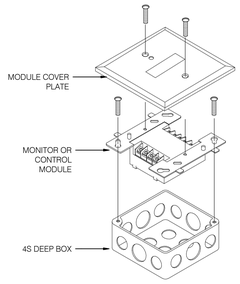
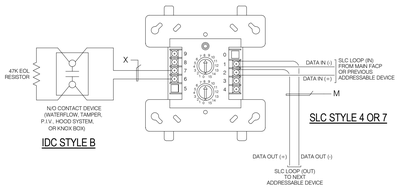
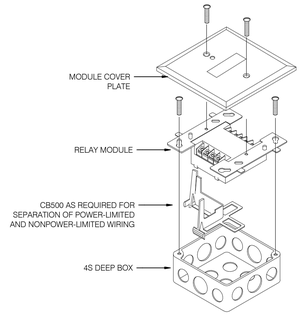
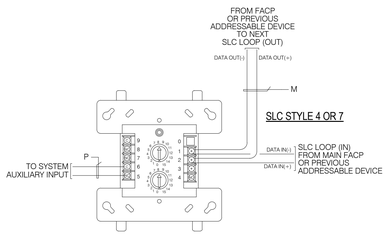


24V APPLICATIONS





120V AND/OR 24V APPLICATIONS



3 ADDRESSABLE MODULES

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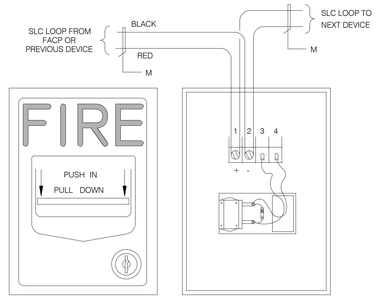

1 MANUAL PULL STATION

NO SCALE

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SIGNED: 09/30/2020

ARCHITECT

LICENSED ARCHITECT — Mark A. Eacret — No. C-28195 — REN. 5-31-2021 — STATE OF CALIFORNIA

CLIENT
MIRACOSTA COMMUNITY
COLLEGE DISTRICT

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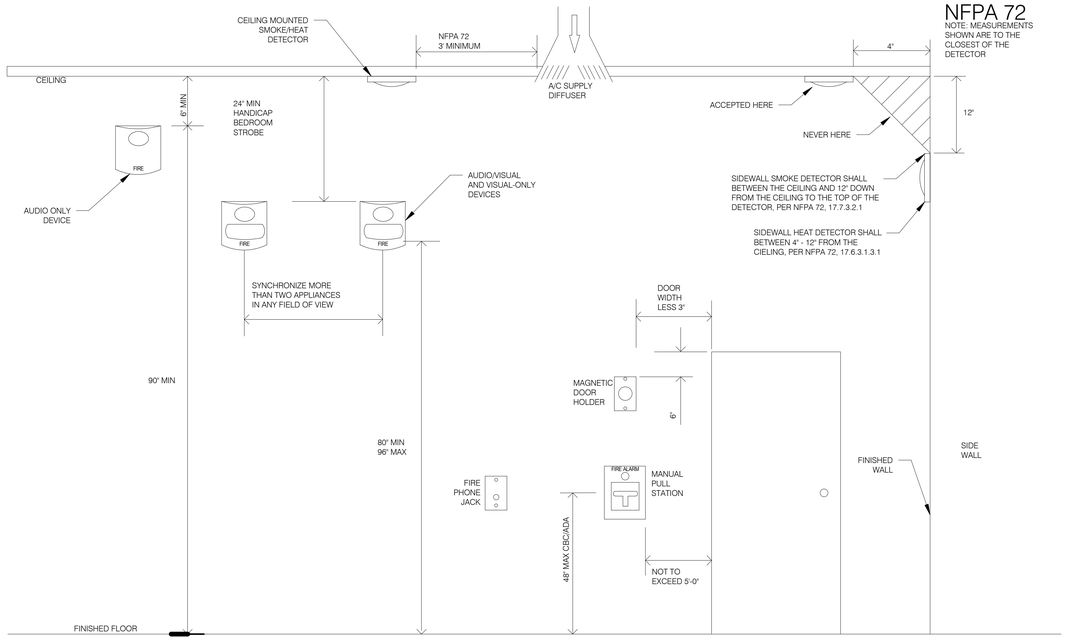
DETAILS

FA601



1 DEVICE INSTALLATION NFPA 72

NO SCALE

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DETAILS

FA602

LEGEND

SYMBOL	DESCRIPTION
	NOTE CALLOUT
	DETAIL CALLOUT - NUMBER ON TOP DENOTES DETAIL NUMBER - NUMBER ON BOTTOM DENOTES SHEET DETAIL IS SHOWN
	PIPE CALLOUT
	NODE USED IN CALCULATION
	SECTION CALLOUT
[+11'-0"]	FIRE SPRINKLER PIPE ABOVE FINISHED FLOOR. SEE PLAN FOR ELEVATION.
11'-0"	CEILING HEIGHT
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	CHANGING PIPE SIZE
F	NEW PIPE
E	EXISTING PIPE
	DEMOLISHED PIPE/EQUIPMENT
	THRUST BLOCK
	RISER
	DRAIN VALVE
	POST-INDICATOR VALVE
	OS&Y VALVE (OUTSIDE SCREW AND YOKE, RISING STEM)
	INDICATING BUTTERFLY VALVE
	CHECK VALVE
	CHECK VALVE WITH BALL DROP
	BUTTERFLY VALVE
	BACKFLOW PREVENTER - REDUCED PRESSURE ZONE (RPZ) TYPE
	PUBLIC FIRE HYDRANT, TWO HOSE OUTLETS
	PUBLIC FIRE HYDRANT, TWO HOSE OUTLETS AND PUMPER CONNECTION
	SIAMESE FIRE DEPARTMENT CONNECTION
	FREESTANDING SIAMESE FIRE DEPARTMENT CONNECTION
	FIRE PUMP WITH DRIVES
	UPRIGHT SPRINKLER
	PENDENT SPRINKLER
	CONCEALED SPRINKLER
	PENDENT SPRINKLER; ON DROP NIPPLE
	SPRINKLER, WITH GUARD
	LATERAL BRACE
	LONGITUDINAL BRACE
	FOUR-WAY BRACE
	WIRE, SURGE RESTRAINER
	WALL PENETRATION
	PIPE HANGER
	MECHANICAL PIPE COUPLING
	GROOVED ELBOW
	CHANGE IN PIPE ELEVATION
	ELBOW FACING AWAY FROM VIEWER
	ELBOW FACING TOWARD VIEWER
	TEE FACING AWAY FROM VIEWER
	TEE FACING TOWARD VIEWER
	THREADED CAP
	FIRE STOP SYMBOL
	ONE HOUR FIRE RATED WALL

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
(N)	NEW
AFF	ABOVE FINISHING FLOOR
BFV	BUTTERFLY VALVE
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DI	DUCTILE IRON PIPE
EXIST / (E)	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
PIV	POST INDICATOR VALVE
POC	POINT OF CONNECTION
UG	UNDERGROUND

BUILDING DESIGN INFORMATION

BUILDING DESIGN INFORMATION:	
-GOVERNING BUILDING CODE=	2019 EDITIONS OF CBC, CMC, CPC, CFC
-BUILDING OCCUPANCY=	A, B, S
-CONSTRUCTION TYPE=	V-B
-BUILDING HEIGHT=	30 FT
-BUILDING AREA=	9,060 SQFT
-GOVERNING FIRE CODE=	2016 NFPA 13, 2016 NFPA 72

SPRINKLER DESIGN CRITERIA :	-OFFICES, COORDIRORS, CONFERENCE
-CLASSIFICATION OF OCCUPANCY=	LIGHT HAZARD
-DESIGN DENSITY=	0.10 GPM/SQFT
-DESIGN AREA=	3000 SQFT
-MAX HEAD AREA=	225 SQFT
-MAX HEAD SPACING=	15 FT

SPRINKLER DESIGN CRITERIA :	STORAGE, MECH, ELECT ROOMS
-CLASSIFICATION OF OCCUPANCY=	ORDINARY HAZARD I
-DESIGN DENSITY=	0.15 GPM/SQFT
-DESIGN AREA=	3000 SQFT
-MAX HEAD AREA=	130 SQFT
-MAX HEAD SPACING=	15 FT IN ONE DIRECTION

SCOPE OF WORK

1. PROVIDE FIRE PROTECTION FOR TENANT IMPROVEMENT OF CONFERENCE AREAS INTO STUDENT COUNCILING OFFICES

   EXISTING FIRE SPRINKLER SYSTEM WAS DEFFERRED APPROVAL ITEM UNDER DSA# 04-107979

SHEET INDEX

SHEET	DESCRIPTION
FP001	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX
FP201	FLOOR PLANS
FP211	RCP PLANS
FP401	SECTION VIEW
FP601	DETAILS
FPD201	DEMOLITION - FLOOR PLANS

OVERHEAD FIRE SPRINKLER SYSTEM NOTES

1. 2016 NFPA 13 SEC. 10.10.2.1.1 UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD SPRINKLER PIPING. WHERE UNDERGROUND PIPING IS FLUSHED AND NOT IMMEDIATELY CONNECTED TO THE OVERHEAD PIPING, THE RISER SHALL BE CAPPED OR OTHERWISE PROTECTED TO PREVENT DEBRIS, DIRT, OR ANIMALS FROM ENTERING INTO THE UNDERGROUND PIPING (WITNESSED BY THE PROJECT INSPECTOR).
2. ARCHITECT OF RECORD & FIRE PROTECTION SHALL AFFIX THEIR SEAL AND STAMP & SIGN ALL SUBMITTAL DRAWINGS, OR PROVIDE DOCUMENTATION PER DSA IR A-18.
3. 2016 NFPA 13 SEC. 6.2.9: PROVIDE SPARE SPRINKLER HEAD CABINET, SPRINKLER WRENCH, AND NO FEWER THAN 6 SPARE HEADS MATCHING THE TYPES AND TEMPERATURE RATINGS AT EACH SYSTEM RISER.
4. 2016 NFPA 13 SEC. 9.3.6.3: THE END SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT.
5. 2019 CBC 903.4.2: THE INSPECTOR'S TEST VALVE LOCATION SHALL BE INSTALLED AT THE END OF THE MOST HYDROSTATICALLY REMOTE SYSTEM WITH A PIPE SIZE OF NO LESS THAN 1 INCH, WITH A SMOOTH BORE, CORROSION-RESISTANT ORIFICE INSTALLED WITHIN THE SYSTEM. THE DISCHARGE SHALL BE TO THE EXTERIOR OF THE BUILDING.
6. 2016 NFPA 72 SEC 17.12.2: THE SPRINKLER FLOW SWITCH SHALL BE TESTED TO CONFIRM THAT WHEN THE INSPECTORS TEST VALVE IS ACTIVATED AN ALARM WILL SOUND NO MORE THAN 90 SECONDS AFTER INITIAL FLOW. (WITNESSED BY THE PROJECT INSPECTOR).
7. 2019 CBC 904.4.3: CONNECTIONS TO PROTECTED PREMISES AND SUPERVISING STATION FIRE ALARM SYSTEMS SHALL BE TESTED TO VERIFY PROPER IDENTIFICATION AND TRANSMISSION OF ALARMS FROM AUTOMATIC FIRE EXTINGUISHING SYSTEMS.
8. 2016 NFPA 13 SEC. 7.7.1.5: SIGNAGE SHALL BE PROVIDED AS REQUIRED.
9. 2019 CBC SEC. 903.4.1: ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS AND WATER FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL BE SUPERVISED.
10. 2016 NFPA 13 SEC. 24.5: A PERMANENT HYDRAULIC CALCULATIONS DESIGN DATA PLACARD SHALL BE ATTACHED TO EACH RISER.
11. 2016 NFPA 13 SEC. 6.9 AND 2019 CBC 903.4.2: FLOW SWITCH SHALL BE CONNECTED TO A 10 INCH OUTSIDE ALARM BELL AT EACH RISER. APPROVED IDENTIFICATION SIGNS SHALL BE PROVIDED TO OUTSIDE ALARM BELL "SPRINKLER FIRE ALARM - WHEN BELL RINGS CALL 911 / FIRE DEPARTMENT."
12. TITLE 19 ARTICLE 6 SECTION 906(A): A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEM WITH THE DATE OF SERVICE AND/OR DATE OF INSTALLATION WAS PERFORMED AND LICENCE NUMBER OF PERSON PERFORMING SERVICE WORK.
13. 2016 NFPA 13 FIGURE 24.1: SPRINKLER CONTRACTOR SHALL COMPLETE AND SIGN CONTRACTORS MATERIAL & TEST CERTIFICATE FOR THE ABOVEGROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD TO DSA FOR FILING IN PROJECT RECORDS.
14. ALL SPRINKLER FITTERS WORKING ON THIS PROJECT MUST BE AES CERTIFIED THROUGH CSFM & MUST CARRY CERTIFICATION CARD WITH THEM ON JOB SITE.

GENERAL NOTES

1. THE SUCCESSFUL C-16 LICENSED CONTRACTOR SHALL COORDINATE WITH ALL ENGINEER DISCIPLINE & ARCHITECT FOR THE INSTALLATION FIRE SPRINKLER SYSTEM FOR ALL CONCEALED AND UNCONCEALED AREAS OF THE BUILDINGS AS REQUIRED.
2. CONTRACTOR SHALL INSTALL, ROUTE AND SUPPORT AUTOMATIC SPRINKLER SYSTEM PER REQUIREMENTS OF THE CURRENT NATIONAL FIRE PROTECTION ASSOCIATION CODE (NFPA), 2016 NFPA 13, NFPA 14, NFPA 24, CALIFORNIA BUILDING CODE / CALIFORNIA FIRE CODE (CBC/CFC) CHAPTER 9, CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC) AND INSURANCES UNDER WRITER'S REQUIREMENTS.
3. THE DESIGN COORDINATION AND APPROVALS OF ALL MAINS AND BRANCHES LINES TO SERVE SPRINKLERS SHALL BE DONE BY A LICENSED FIRE PROTECTION CONTRACTOR.
4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE MAKING FIELD MEASUREMENTS AND PROVIDE SHOP DRAWINGS NECESSARY FOR THE FABRICATION OR ERECTION OF ALL FIRE SUPPRESSION SYSTEM.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW TO ARCHITECT AND EOR. SHOP DRAWINGS SHALL BE REVIEWED BY THE ARCHITECT AND EOR PRIOR TO COMMENCING WORK.
6. EXISTING WORK DAMAGED OR CUT INTO DURING CONSTRUCTION SHALL BE PATCHED OR REPAIRED, PAINTED AND FINISHED TO MATCH EXISTING ADJACENT SURFACES IN TEXTURE, FINISH AND COLOR.
7. LOCATION OF SPRINKLER HEADS SHALL BE DONE BY THE FIRE PROTECTION CONTRACTOR USING THE CRITERIA AS NOTED BELOW:
   A. IN LOCATIONS WITH SUSPENDED CEILING, THE SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF THE INDIVIDUAL CEILING TILES. THE SPRINKLER HEADS PATTERN SHALL BE SYMMETRICAL ABOUT ROOM CENTER LINES AS MUCH AS POSSIBLE. IN PANELS HAVING A FACTORY-MADE REVEAL, SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF AN INDIVIDUAL SEGMENT.
   B. IN LOCATIONS WITH PLASTERED OR GYPSUM BOARD CEILINGS, THE SPRINKLER HEAD PATTERN SHALL BE SYMMETRICAL ABOUT ROOM CENTER LINES AS MUCH AS POSSIBLE.
   C. FOR LOCATIONS OF CEILING TILES, DIFFUSERS AND LIGHTS, SEE ARCHITECTURAL REFLECTED CEILING PLANS.
8. ALL NEW EQUIPMENT AND MATERIAL TO BE INSTALLED AS PART OF RENOVATION / NEW CONSTRUCTION SHALL BEAR AN UNDERWRITERS LABORATORIES LABEL (UL), AND INSTALLED IN SUCH A MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
9. NO HOLES SHALL BE DRILLED OR CUT IN OR THROUGH ANY STRUCTURAL ELEMENT WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND THE STRUCTURAL ENGINEER.
10. SLEEVE AND GROUT ALL PIPE PENETRATIONS THROUGH FLOORS OR WALLS UNLESS PENETRATION IS FIRE RATED. WHEN PENETRATING A FIRE RATED FLOOR OR WALL, USE SLEEVE WITH 1" MIN. ANNULAR SPACE AROUND PIPE O.D. FILL ANNULAR SPACE WITH FIBERGLASS FILL TO 1" FROM END OF SLEEVE. ADD APPROVED FIRE PROOF SEALANT FOR THE HOUR RATING OF THE FLOOR OR WALL PENETRATION IN THE REMAINING SPACE.
11. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED TEMPORARY AND PERMANENT PERMITS, INCLUDING LICENSES, CERTIFICATES, INSPECTIONS AND TESTS.
12. SEE DIVISION 21 SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
13. ALL PIPE PENETRATION THRU WALLS, RATED OR OTHERWISE SHALL BE COVERED WITH A SPLIT ESCUTCHEON PLATE.
14. FIELD OBSERVATION AND SUPPORT SERVICES PERFORMED BY THE ENGINEER PRIOR TO, DURING, OR AFTER CONSTRUCTION IS PERFORMED FOR THE PURPOSE OF ACHIEVING QUALITY CONTROL AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
15. PHASING: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH GENERAL CONTRACTOR CONSTRUCTION SCHEDULE AND BASED UPON MINIMIZING DISRUPTIONS TO EXISTING OPERATION. PHASING SHALL BE APPROVED BY ARCHITECT PRIOR TO CONSTRUCTION OR DEMOLITION.
16. ALL DEMOLISHED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR PROMPT DAILY REMOVAL FROM THE SITE. THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE RESULTING FROM THE WORK AT THE CONCLUSION OF THE DAYS CONSTRUCTION. THE AREA OF THE SITE SHALL BE LEFT BROOM CLEAN. IF NOT, UPON NOTIFICATION, THE GENERAL CONTRACTOR WILL PERFORM ALL NECESSARY CLEAN-UP WORK AND BACK CHARGE THE SUB CONTRACTOR FOR THE EXPENSE THUS INCURRED.
17. ALL DEVICES AND COMPONENTS TO BE EITHER LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY FOR FIRE PROTECTION SERVICE OR APPROVED BY THE AUTHORITY HAVING JURISDICTION. IT SHALL BE PER OPM-0052-13 (B-LINE/TOLCO
18. FITTINGS FOR HOLE-CUT CONNECTIONS, SUCH AS VICTAULIC "HOOKER" OR EQUIVALENT, ARE NOT ACCEPTABLE AND SHALL NOT BE USED.
19. PROVIDE EACH FLOOR/ZONE WITH CONTROL VALVE AND FLOW SWITCH.
20. THE SPRINKLER REQUIRED AT THE TOP OF THE ELEVATOR HOISTWAY BY NFPA 13, 8.14.5.4 SHALL NOT BE REQUIRED WHERE THE HOISTWAY FOR PASSANGER ELEVATOR IS NONCOMBUSTIBLE AND THE CAR ENCLOSURE MATERIALS MEET THE REQUIREMENTS OF ASME A17.1, SAFETY CODE FOR ELEVATOR AND EXCALATORS.
21. A HYDROSTATIC TEST SHALL BE PERFORMED FOR ALL SYSTEM PIPING AT NOT LESS THEN 200 PSI FOR TWO HOURS, OR 50 PSI ABOVE STATIC PRESSURE IN EXCESS OF 150 PSI FOR TWO HOURS, AND WITNESSED BY A LOCAL FIRE INSPECTOR.
22. FIRE SPRINKLER FLOW ALARM BELL WILL BE INSTALLED ON THE ADDRESS SIDE OF THE BUILDING AND WILL BE EQUIPPED WITH THE PROPER SIGNAGE IDENTIFYING THE ALARM BELL.
23. ALL CONTROL VALVES AND DRAIN VALVES SHALL HAVE A SIGN AFFIXED FOR IDENTIFICATION.
24. ALL MECHANICALLY JOINED PIPING SHALL BE SCHEDULE 10 WITH ROLL GROOVED ENDS AND MECHANICAL FITTINGS. COUPLINGS SHALL BE RIGID TYPE, UNLESS OTHERWISE NOTED.
25. ALL THREADED PIPING SHALL BE SCHEDULE 40 WITH CUT THREADS AND CLASS 125 CAST IRON FITTINGS.
26. THE FIRE SPRINKLER SYSTEM SHALL BE MONITORED BY AN APPROVED LISTED CENTRAL MONITORING STATION.
27. HANGER LOCATION FOR ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13, SECTION 9.2 THROUGH 9.2.6.3 SEE HANGER SCHEDULE AND/OR DETAILS FOR TYPES OF HANGERS USED. ALTERNATE UL AND FMHANGER METHODS ACCEPTABLE AT NO ADDITIONAL COST TO THE OWNER PROVIDE UL AND FM LITERATURE TO INSPECTOR OF RECORD AND ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

   PROVIDE RIGID COUPLING THROUGHOUT, EXCEPT FLEXIBLE COUPLING SHAL BE PROVIDE AS FOLLOWING:

   A. WITHIN 24" OF THE TOP AND BOTTOM OF AL RISERS.
   B. ON BOTH SIDES OF CONCRETE OR MASONARY WALLS WITHIN 3' OF THE WALL SURFACE
   C. WITHIN 24" OF BUILDING EXPANSION JOINTS.
   D. WITH24' OF THE TOP OF DROPS EXCEEDING 15' IN LENGTH TO PORTIONS OF SYSTEM SUPPLYING MORE THAN ONE SPRINKLER, REGARDLESS OF PIPE SIZE.
   E. ABOVE AND BELOW ANY INTERMEDIATE POINTS OF SUPPORT FOR A RISER OR OTHER VERITCAL PIPE.
28. BRANCHLINE SHALL BE LATERALLY RESTRAINED AT INTERVALS NOT EXCEEDING THOSE SPECIFIED IN NFPA TABLE 13 TABLE 9.3.6.4(a) OR (b) BASED ON BRANCHLINE DIAMETERS AND THE VALUE OF Cp.
29. ALL WELDING TO BE DONE BY CERTIFIED WELDERS.
30. INSPECTORS TEST CONNECTIONS AND LOW POINT DRAINS SHALL BE PER NFPA 13 (UNLESS NOTED OTHERWISE) AND SHALL BE SHOWN ON SHOP DRAWING. MOUNTING HEIGHTS OF CONTROL VALVES BE 5'-0" A.F.R. MOUNT CONTROL VALVES FOR INSPECTOR CONNECTION AND LOW POINT DRAINS INSIDE BUILDING. PIPE DRAIN LINES TO THE SANITARY DRAIN OR OTHER APPROVED LOCATION.
31. SPRINKLER CONTRACTOR TO COORDINATE AND ADJUST SPRINKLERS TO ELECTRICAL, MECHANICAL, STRUCTURE AND ALL OTHER TRADES AT NO ADDITIONAL COST TO THE OWNER.
32. OWNER TO BE PROVIDED WITH TEST CERTIFICATES, CARE & MAINTENANCE BOOK (NFPA 25 - CALIFORNIA AMENDED) AND A SPARE HEAD CABINET WITH SPRINKLERS AND A WRENCH PER NFPA 13.
33. DELIVERY OF ALL MATERIALS AND EQUIPMENT TO THE JOB SITE SHALL BE SCHEDULED TO ASSURE COMPLIANCE WITH THE PREDETERMINED CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND HANDLING ALL MATERIALS AND EQUIPMENT ON THE JOB SITE, INCLUDING FURNISHING OF ANY STORAGE FACILITIES OR STRUCTURE REQUIRED.
34. SPRINKLER CONTRACTOR SHALL BE FIELD VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES PRIOR TO INSTALLATION.
35. REFERENCE THE CIVIL DRAWINGS FOR ADDITIONAL FIRE LINE INFORMATION.
36. REFER TO THE ARCHITECTURAL DRAWING FOR ACTUAL BUILDING DIMENSIONS AND DETAILS. DO NOT SCALE "FP" DRAWINGS FOR CONSTRUCTION PURPOSES.
37. INSTALLATION OF SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL DRAWINGS, SPECIFICATIONS, CALCULATIONS, ETC. HAVE BEEN APPROVED BY DSA AND EOR.
38. LENGTHS OF PIPE SHOWN ON PLANS ARE EDGE OF FITTING TO EDGE OF FITTING DIMENSIONS. FIELD FABRICATION OF PIPE LENGTHS IS NOT ALLOWED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

DSA FILE NO. 37-C2 A# 04-119030

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ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

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GENERAL NOTES, LEGEND, ABBREVIATIONS AND SHEET INDEX

FP001

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GENERAL NOTES

A. SPRINKLERS PLACED ON CEILING TILES SHALL BE PLACED IN CENTER OF CEILING TILE.

B. GENERAL INTENT OF DESIGN IS TO LEAVE AS MUCH OF THE EXISTING SYTEM IN PLACE AND USE EXISTING OUTLETS FROM BRANCH LINES TO SERVE NEW SPRINKLER HEAD LOCATIONS.

C. PIPE OUTLETS NOT USED FOR THE PURPOSES OF THIS T.I. SHALL BE CAPPED.

D. HYDRAULIC CALCULATIONS NOT PERFORMED BECAUSE THE CHANGES TO THE SYSTEM DO NOT AFFECT THE HYDRAULIC PERFORMANCE OF THE SYSTEM AND ARE NOT A PART OF THE REMOTE AREAS.

E. NEW SPRINKLER HEADS SHALL MATH EXISTING TYPE, SIN, TEMP RATING, AND FINISH AS MUCH AS IS POSSIBLE. UNUSED EXISTING PIPE OUTLETS FROM BRANCHLINES SHALL BE CAPPED IN PLACE.

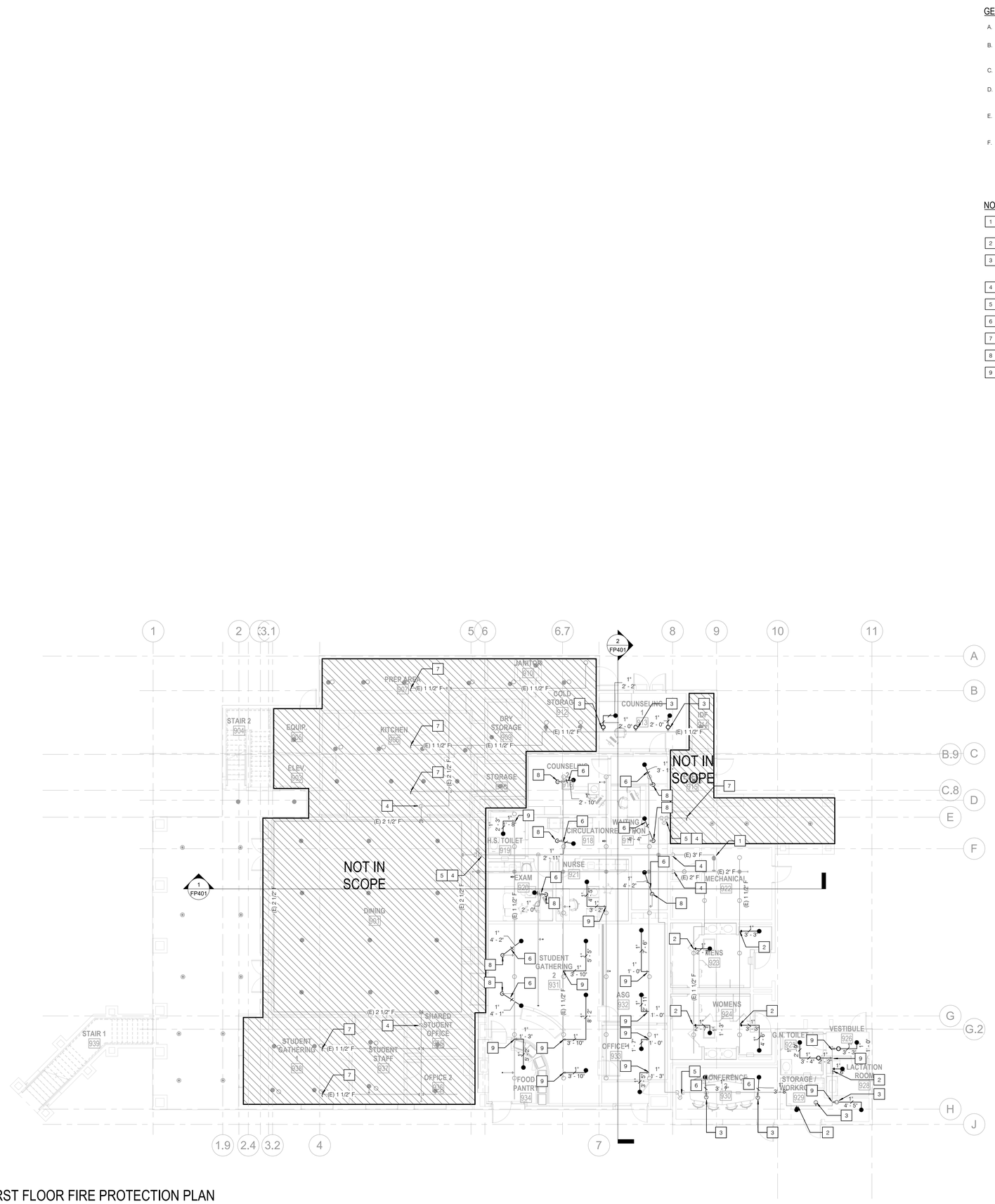
F. T.I. WILL FOLLOW EXISTING PIPING LAYOUT. USING AS MUCH AS POSSIBLE THE EXISTING MAINS, BRANCHLINES, AND PIPE OUTLETS. THEREFORE NEW HYDRAULIC CALCULATIONS DO NOT NEED TO BE DONE.

NOTES

1. EXISTING RISER, MAINS, BRANCH LINES, HANGERS, BRACES AND ALL ASSOCIATED APPURTENANCES ARE TO REMAIN AS EXISTING.
2. ARM-OVER SERVING NEW HEAD UTILIZING MECHANICAL TEE
3. UPRIGHT THAT WAS REMOVED DURING DEMOLITION PHASE SHALL BE REPLACED IN KIND IN THE SAME LOCATION AS BEFORE WITH A TEE TO SERVE NEW PENDANT LOCATION
4. RISE/DROP OF EXISTING MAIN
5. EXISTING SEISMIC JOINT
6. NEW ARM OVER AT 11'-0"
7. PIPE CONTINUES PAST SCOPE OF T.I. REFER TO AS BUILT DRAWINGS
8. DROP FROM EXISTING ARM OVER TO SERVE NEW HEAD LOCATION
9. NEW ARM OVER UTILIZING EXISTING PIPE OUTLET FROM BRANCHLINE

SPRINKLER HEAD SCHEDULE AND LEGEND

SYMBOL	LOCATION	MANUFACTURER	SIN	K-FACTOR	SR/OR	TYPE	TEMP.	FINISH	THREAD SIZE	COMMENTS
○	EXPOSED STRUCTURE	VIKING	VK301	5.6	OR	SSU	175°	BRASS	1/2"	UPRIGHT SPRINKLER TO MATCH EXISTING
●	GYP. BOARD/ ACOUST. TILES	VIKING	VK462	5.6	OR	SSP	175°	WHITE	1/2"	CONCEALED PENDENT SPRINKLER



1 FIRST FLOOR FIRE PROTECTION PLAN

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

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

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FLOOR PLANS

FP201

GENERAL NOTES

A. SPRINKLERS PLACED ON CEILING TILES SHALL BE PLACED IN CENTER OF CEILING TILE.

B. GENERAL INTENT OF DESIGN IS TO LEAVE AS MUCH OF THE EXISTING SYTEM IN PLACE AND USE EXISTING OUTLETS FROM BRANCH LINES TO SERVE NEW SPRINKLER HEAD LOCATIONS.

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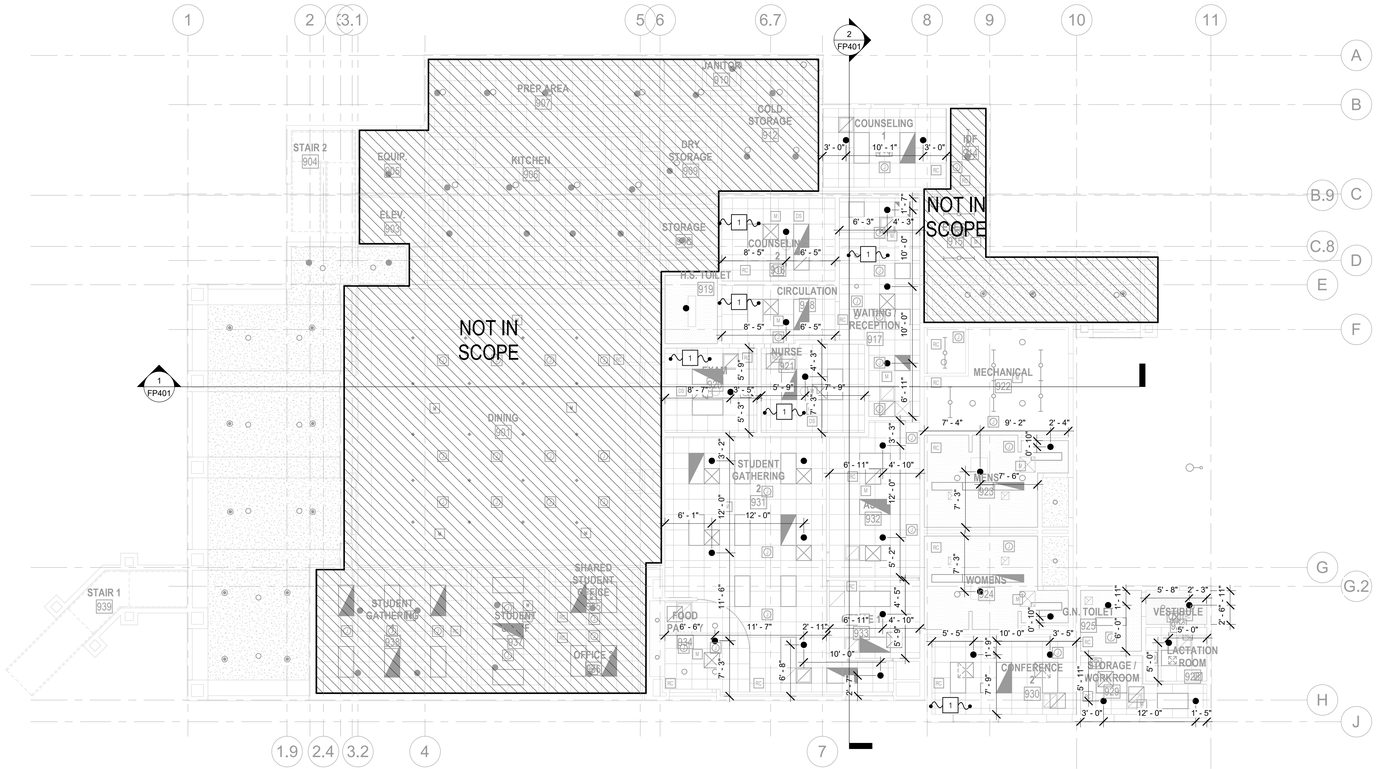
NOTES

1 SMALL ROOM EXCEPTION PER NFPA 13 SECTION 8.6.2.1.2



1 FIRST FLOOR FIRE PROTECTION RCP PLAN

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

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

SPRINKLER HEAD SCHEDULE AND LEGEND

SYMBOL	LOCATION	MANUFACTURER	SIN	K-FACTOR	SR/QR	TYPE	TEMP.	FINISH	THREAD SIZE	COMMENTS
○	EXPOSED STRUCTURE	VIKING	VK301	5.6	QR	SSU	175°	BRASS	1/2"	UPRIGHT SPRINKLER TO MATCH EXISTING
●	GYP. BOARD/ ACOUST. TILES	VIKING	VK462	5.6	QR	SSP	175°	WHITE	1/2"	CONCEALED PENDENT SPRINKLER

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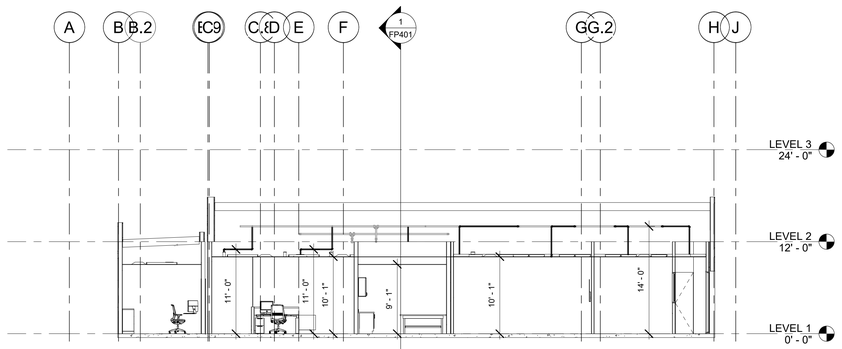
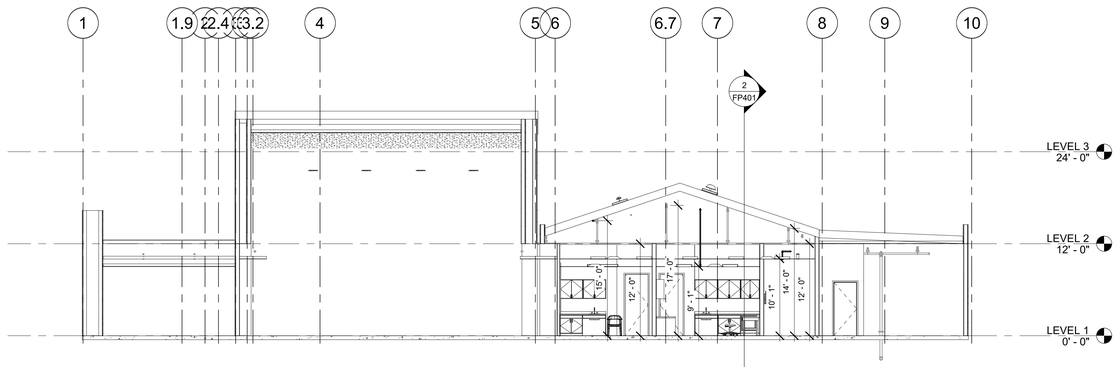
RCP PLANS

FP211



2 FP WEST TO EAST SECTION VIEW

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



1 FP SOUTH TO NORTH SECTION VIEW

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

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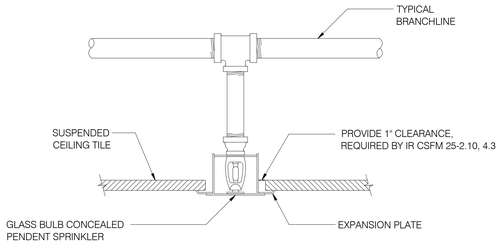
SECTION VIEW

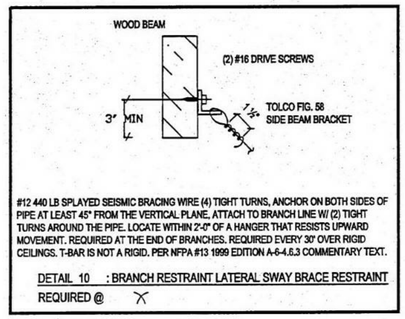
FP401

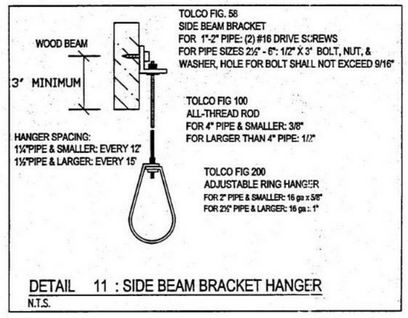


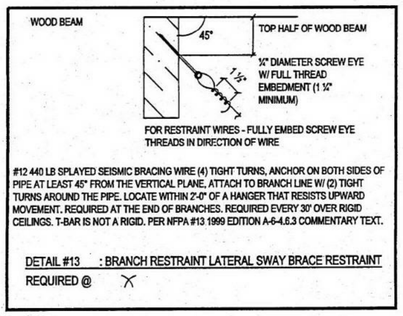
CONCEALED SPRINKLER ESCUTCHEON

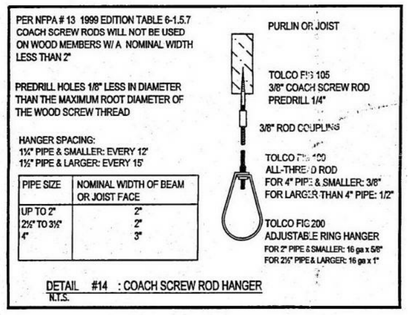
4 CONCEALED PENDENT SPRINKLER DETAIL

NO SCALE

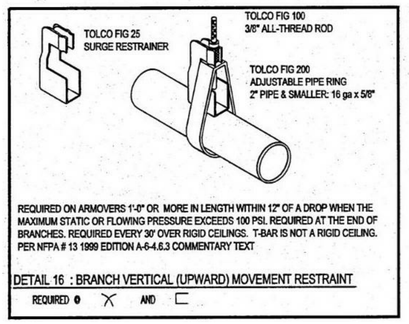


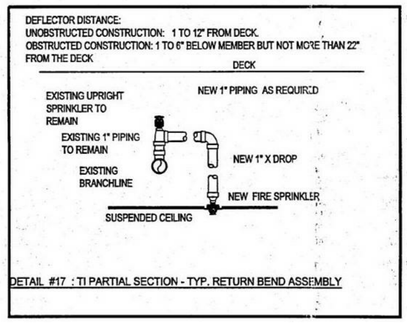






PIPE SIZE	NOMINAL WIDTH OF BEAM OR JOIST FACE
UP TO 2"	2"
2½" TO 3½"	2"
4"	3"

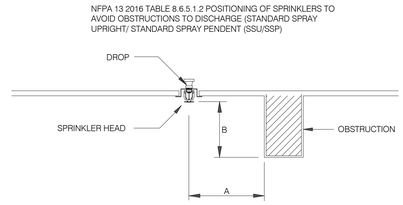




HANGER SYMBOL	RESTRAINT SYMBOL

3 EXISTING HANGER AND RESTRAINT DETAILS

NO SCALE



DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION (A)	MAX. ALLOWANCE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (IN.) (B)
LESS THAN 1 FT.	0
1'-0" TO LESS THAN 1'-6"	2-1/2
1'-6" TO LESS THAN 2'-0"	3-1/2
2'-0" TO LESS THAN 2'-6"	5-1/2
2'-6" TO LESS THAN 3'-0"	7-1/2
3'-0" TO LESS THAN 3'-6"	9-1/2
3'-6" TO LESS THAN 4'-0"	12
4'-0" TO LESS THAN 4'-6"	14
4'-6" TO LESS THAN 5'-0"	16-1/2
5'-0" TO LESS THAN 5'-6"	18
5'-6" TO LESS THAN 6'-0"	20
6'-0" TO LESS THAN 6'-6"	24
6'-6" TO LESS THAN 7'-0"	30
7'-0" TO LESS THAN 7'-6"	35

2 OBSTRUCTION TABLE FOR SSU/SSP

NO SCALE

1 TYPICAL SPRINKLER PIPING DETAIL

NO SCALE

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DETAILS

FP601

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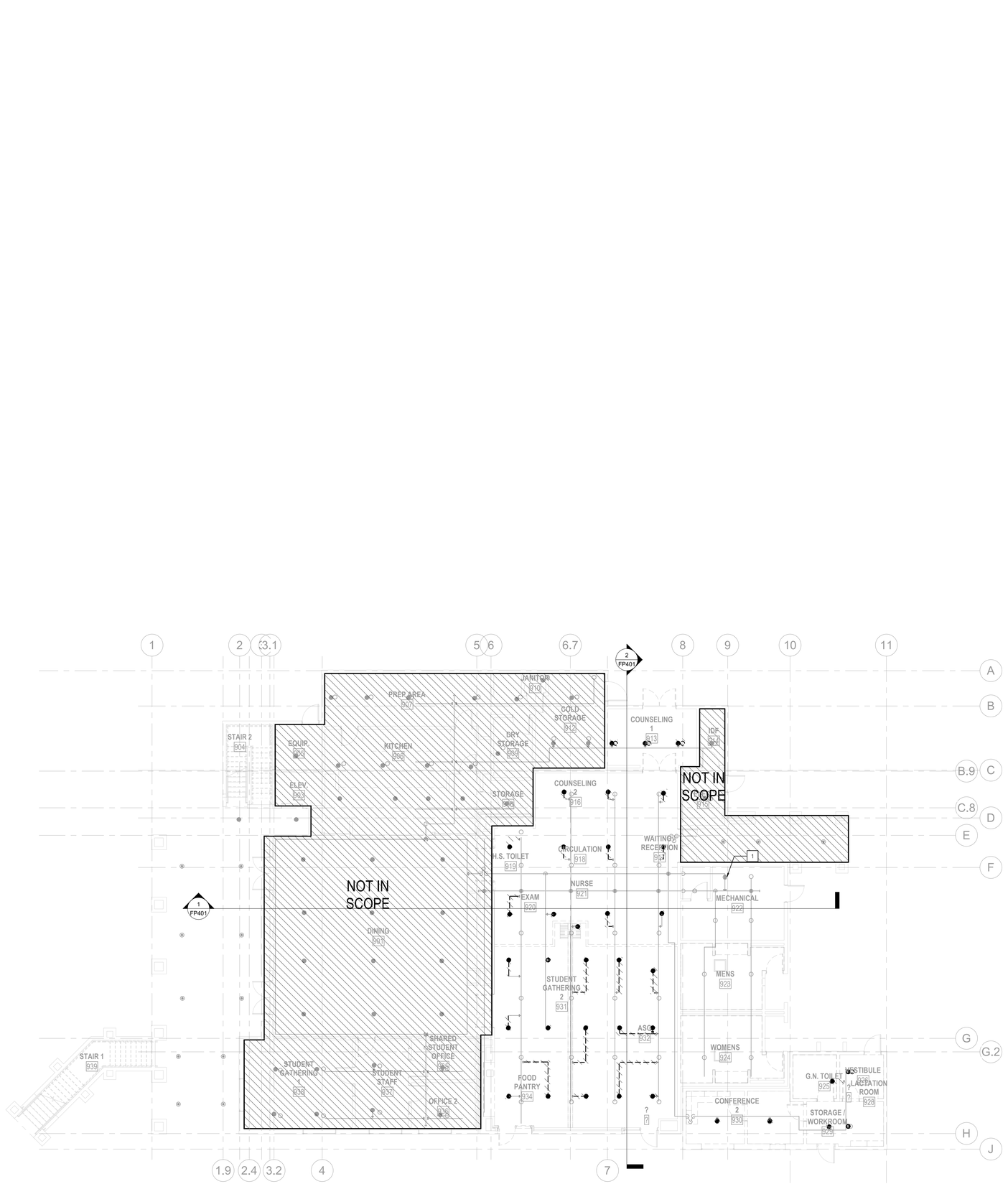

1 FIRST FLOOR FIRE PROTECTION PLAN

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

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DSA FILE NO. 37-C2 A# 04-119030

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

3333 Manchester Ave, Cardiff, CA 92007

50% CONSTRUCTION DOCUMENS

MiraCosta College

CONSULTANT

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MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER	--
DATE:	2020/09/30
DRAWN BY:	-
CHECKED BY:	-

REVISIONS

No.	Description	Date

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DEMOLITION - FLOOR PLANS

FPD201

RESPONSIBILITY MATRIX

ITEM	RESPONSIBLE PARTY
ENSURE ACCESS CONTROL DOORS ARE CORED FOR WIRING AND PREPARED TO RECEIVE ACCESS CONTROL HARDWARE SPECIFIED	GENERAL CONTRACTOR
ALL NON-ELECTRIFIED DOOR HARDWARE - INCLUDING NON-TRANSFER HINGES ON ELECTRIFIED DOORS	GENERAL CONTRACTOR
ALL ROLL UP GATE HARDWARE AND MOTOR CONTROL DEVICES	GENERAL CONTRACTOR
NETWORK DATA CABLING, PATCH PANELS AND BISCUITS REQUIRED FOR SECURITY AND ACCESS CONTROL SYSTEM COMMUNICATION	GENERAL CONTRACTOR
FIRE RATED BACK BOARD FOR SECURITY/INTRUSION AND ACCESS CONTROL PANELS	ELECTRICAL CONTRACTOR
WIRE TRAYS, GUTTER BOXES, JUNCTION BOXES AND CONDUIT, WALL PENETRATIONS. PULL STRINGS TO BE INCLUDED IN ALL CONDUITS.	ELECTRICAL CONTRACTOR
WALL PENETRATIONS	ELECTRICAL CONTRACTOR
CONDUIT INTO DOOR FRAME WITH PULL STRING EXITING POWER TRANSFER HINGE AND DOOR CONTACT LOCATIONS.	ELECTRICAL CONTRACTOR
120VAC ELECTRICAL CIRCUITS AND HARDWIRING TO ALL SECURITY/INTRUSION AND ACCESS CONTROL POWER SUPPLIES AND PANELS.	ELECTRICAL CONTRACTOR
PROVIDE, INSTALL AND TERMINATE ALL SECURITY/INTRUSION AND ACCESS CONTROL CABLING VIA CABLE HANGERS, J-HOOKS AND PLENUM CABLE FASTNERS AS REQUIRED	SECURITY CONTRACTOR
PROVIDE, INSTALL AND TEMINATE ALL SECURITY/INTRUSION AND ACCESS CONTROL DEVICES, PANELS AND SUBASSEMBLIES	SECURITY CONTRACTOR
PROVIDE, INSTALL AND TERMINATE ALL WIRING BETWEEN ELECTRIFIED LOCK AND TRANSFER HINGE.	SECURITY CONTRACTOR
PROVIDE, INSTALL AND TERMINATE ALL ELECTRIFIED ACCESS CONTROL LOCK HARDWARE, TRASFER HINGES AND MANUFACTURER RECCOMENDED LOCK POWER SUPPLIES	SECURITY CONTRACTOR
ALL SYSTEM PROGRAMMING, TESTING, COMMISSIONING AND TRAINING	SECURITY CONTRACTOR
FIRE ALARM DROP OUT RELAY FOR ACCESS CONTROL DOORS AND POWER SUPPLIES AS NEEDED. FA VENDOR TO PROVIDE SEPARATE, ISOLATED RELAY THAT DROPS POWER TO ANY REQUIRED "FAIL SAFE" ELECTRIFIED DOOR HARDWARE UPON ACTIVATION OF FIRE ALARM.	FIRE ALARM CONTRACTOR AND SECURITY CONTRACTOR

METHOD OF OPERATION

ACCESS CONTROL AND LOCK CONFIGURATION

1. SECURED DOORS: DOORS EQUIPPED WITH ELECTRIC LOCKS SHALL BE INDIVIDUALLY PROGRAMMED FOR LOCKING AND UNLOCKING AT SPECIFIC TIMES OF THE DAY. A VALID CREDENTIAL PRESENTED AT A READER WILL ALLOW THE PORTAL TO UNLOCK FOR A PROGRAMMED PERIOD OF TIME.

2. UPON AUTHORIZATION BY CARD READER OR MANUAL MEANS, "DOOR FORCE" AND "DOOR HELD OPEN" ALARMS ASSOCIATED WITH THE PORTAL SHALL BE AUTOMATICALLY BYPASSED (PREVENTED FROM REPORTING AN ALARM) FOR A DURATION OF TIME THAT IS PROGRAMMABLE ON AN INDIVIDUAL DOOR AND INDIVIDUAL CARDHOLDER BASIS.

3. THE DOOR SHALL RE-LOCK IMMEDIATELY UPON CLOSING, AFTER AN AUTHORIZED ACCESS, AND THE BYPASS DURATION SHALL BE IMMEDIATELY TRUNCATED. A DOOR POSITION SWITCH WILL BE REQUIRED AT EVERY DOOR FOR THIS PURPOSE. THE SAME DOOR POSITION SWITCH SHALL BE USED TO SENSE THE POSITION OF THE DOOR FOR "DOOR FORCED" AND "DOOR HELD OPEN" ALARMS.

4. FREE EGRESS AUTHORIZATION

A. UNLESS OTHERWISE SHOWN ON THE PLANS OR DESCRIBED HEREIN, THE SYSTEM SHALL DETECT THE NORMAL EGRESS OF A USER AT ANY INDIVIDUAL PORTAL AND SHALL BYPASS ANY ALARM ASSOCIATED WITH THE PORTAL FOR A DURATION OF TIME THAT IS PROGRAMMABLE ON AN INDIVIDUAL DOOR AND INDIVIDUAL CARDHOLDER BASIS.

B. TIMING SHALL BE INDEPENDENTLY PROGRAMMED FOR EACH PORTAL DURING THE INITIAL ENROLLMENT PROCESS. THIS FUNCTION ALLOWS EXTENDED TIMING FOR DISABLED PERSONS TO PASS THROUGH A PORTAL.

C. THE TIMING FUNCTION SHALL AUTOMATICALLY TRUNCATE AFTER AN ADJUSTABLE PERIOD (0 - 4 SECONDS) AFTER A PORTAL IS CLOSED. THIS FEATURE ALLOWS A SUBSEQUENT ALARM AT THE PORTAL TO BE DETECTED, AND PREVENTS THE PORTAL FROM BEING RE-OPENED WITHOUT AN AUTHORIZED REQUEST.

D. "REQUEST-TO-EXIT" DEVICES SHALL BE USED TO SIGNAL THE SYSTEM THAT AN INDIVIDUAL IS READY TO EXIT THE SECURED DOOR. REQUEST-TO-EXIT DEVICES MAY INCLUDE BUT NOT BE LIMITED TO

1) INTEGRAL LOCK HANDLE SIGNAL SWITCHES

2) TOUCH BARS (ELECTRO-MECHANICAL OR ELECTRONIC)

3) PUSH BARS (MECHANICAL)

4) PUSH BUTTONS

E. ON DOORS WITH INTEGRAL ELECTRO-MECHANICAL LOCKING MECHANISMS (STRIKES, ELECTRICAL PANIC HARDWARE, OR ELECTRICAL MORTISE LOCKS), THE MECHANICAL ACTION OF THE DOOR HARDWARE SHALL ENABLE EGRESS WITHOUT REQUIRING RELEASE OF THE ELECTRICAL MECHANISM. THE REQUEST-TO-EXIT DEVICE SHALL NOT UNLOCK THE DOOR.

F. ON DOORS WITH INTEGRAL ELECTRO-MECHANICAL LOCKING MECHANISMS (MAGNETIC LOCKS), A REQUEST-TO-EXIT DEVICE MAY HAVE TO UNLOCK THE DOOR, RELEASING THE ELECTRICAL MECHANISM FOR THE PROGRAMMED DURATION. REFER TO THE DRAWINGS AND DETAILS FOR DIRECTION.

NOTES

INSTALLATION NOTES

1	ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES. THE CONTRACTOR SHALL NOT INTERMIX ANY LINE VOLTAGE POWER WIRES (120VAC) WITH ANY LOW VOLTAGE SIGNAL OR CONTROL WIRES IN ANY CONDUIT.
2	VERIFY ALL FIELD DIMENSIONS AND CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND. VERIFY DIMENSIONS OF ALL OWNER FURNISHED EQUIPMENT & SERVICES TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.
3	SCHEDULE ALL WORK, INCLUDING CONSTRUCTION ACCESS AND STORAGE, WITH THE OWNER OR THOSE DESIGNATED BY THE OWNER. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION.
4	ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL EXISTING FACILITIES MUST BE MAINTAINED IN SERVICE AT ALL TIMES (IF APPLICABLE).
5	CONTRACTOR SHALL PROVIDE DUST PROTECTION AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA, BROOM CLEAN ALL AREAS EACH DAY.
6	COORDINATE WITH THE OWNER TO DETERMINE IF REMOVED ITEMS (IF APPLICABLE) WILL BE KEPT BY THE OWNER. COORDINATE A STORAGE LOCATION AND DELIVER AS DIRECTED BY THE OWNER. DISPOSAL OF OLD EQUIPMENT SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS.
7	WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND OCCUPANTS OF EXISTING BUILDINGS. INTERRUPTING PERSONNEL AT WORK AS A RESULT OF THIS UNDERTAKING SHALL ALWAYS BE KEPT TO A MINIMUM. CONTRACTOR SHALL PROVIDE TRAFFIC AND SAFETY SIGNS AND BARRIERS WHERE NECESSARY. NO POWER LINE IN THE BUILDING SHALL BE SHUT DOWN UNLESS REQUESTED AND APPROVED BY THE OWNER IN ADVANCE.
8	THE CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK ON PREMISES SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING A REASONABLE AND PRUDENT SAFETY PROGRAM INCLUDING, BUT NOT LIMITED TO, THE ISOLATION OF WORK AREAS AND THE PROMPT REMOVAL OF ANY DEBRIS OR TOOLS WHICH MIGHT ENDANGER VISITORS OR EMPLOYEES OF THE FACILITY. ALL ROADS AND WALKWAYS SHALL REMAIN CLEAR AND UNOBSTRUCTED. WHEN NECESSARY ALTERNATE ROUTES MUST BE MAINTAINED, SHOULD UNSAFE CONDITIONS OCCUR.
9	COORDINATION WITH OTHER CONTRACTORS: IF ANY PART OF THE 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 PROJECT ARCHITECT ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. FAILURE TO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK EXCEPT AS TO DEFECTS WHICH DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.
10	THE CONTRACTOR SHALL ALWAYS MAINTAIN, AT THE JOB SITE, UPDATED "RECORD" DRAWINGS. THESE DRAWINGS SHALL BE AVAILABLE TO THE ARCHITECTS, INSPECTORS OR THE OWNERS UPON REQUEST.
11	NO CABLE RUN SHALL BE SPLICED UNLESS TWO OR MORE DEVICES ARE CONNECTED TO THE SAME CIRCUIT OR THE DEVICE IS PROVIDED FROM THE FACTORY WITH PIGTAIL WIRES. WHERE SPLICING IS REQUIRED, THE SPLICE SHALL BE SOLDERED AND TAPED. IT SHALL BE DONE IN EITHER A SPECIAL TERMINAL BOX, AT THE BACK BOX OR AT THE DEVICE TERMINAL LUGS. ALL SPLICE BOXES MUST BE IN ACCESSIBLE AREAS AND CLEARLY MARKED ON THE RECORD DRAWINGS.
12	ALL WIRES SHALL BE COLOR CODED AND SHALL BE CONNECTED IN A UNIFORM MANNER. TRANSPOSING OR CHANGING OF COLOR CODES SHALL NOT BE PERMITTED. WIRE AND CABLE SIZES, NUMBER OF CONDUCTORS, SHIELDING OR OTHER ITEMS LISTED ON THESE DRAWINGS ARE A GUIDE TO THE CORRECT PRODUCT REQUIRED TO ACHIEVE A WORKING SYSTEM AND REPRESENT THE MINIMUM ACCEPTABLE STANDARDS. CONTRACTOR SHALL CONSULT MANUFACTURER'S RECOMMENDATION FOR CABLING AND USE WHICHEVER IS GREATER IN QUALITY, QUANTITY, GAUGE, SHIELDING AND NUMBER OF CONDUCTORS.
13	ALL WIRING, INCLUDING SHIELDS, MUST BE FREE OF SHORTS, GROUNDS AND STRAY VOLTAGES. ALL RATED FOR WET APPLICATIONS. ALL EXPOSED SURFACE MOUNTED CABLE UNDER 12' A.F.F. SHALL BE IN CONDUIT WHERE INSTALLED IN AREAS WITHOUT CEILINGS.
14	ALL NEW CABLING SHALL BE PLENUM-RATED. EXPOSED OR EXTERIOR CABLE SHALL BE IN CONDUIT. UNDER GROUND CABLE SHALL BE RATED FOR SUCH USE. INSTALL CABLE ON J HOOKS.
15	A PRE PRINTED VINYL MATERIAL MARKER WRAPPED IN ADHESIVE CLEAR PLASTIC SHALL BE PROVIDED TO THE FOLLOWING: A.CABLES WITHIN 6" UPON ENTRY AT ANY SECURITY PANEL, TERMINATION OR SPLICE BOX. B.ALL WIRE LEADS WITHIN 2" FROM ANY TERMINAL BLOCK. C.THE CONTRACTOR SHALL SUBMIT SAMPLES OF MARKERS AND ANY NUMBERING OR MARKING SYSTEM FOR REVIEW PRIOR TO IMPLEMENTATION.
16	THE CONTRACTOR SHALL PROPERLY SEAL ALL CONDUIT OR SLEEVE PENETRATIONS THROUGH ALL WALLS, FLOORS AND CEILINGS USING APPROVED FIRE STOPPING MATERIALS AND SEALANTS REGARDLESS OF RATING AND AS PER APPLICABLE BUILDING CODES.
17	ALL ROUTING OF WIRING AND ANY RELATED CONDUIT IS DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING PRIOR TO INSTALLATION.
18	THE CONTRACTOR SHALL CLEAN AND THOROUGHLY CHECK ALL INSTALLED WORK PRIOR TO CONCEALING OF ARCHITECTURAL FINISHING, CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION. THE CONTRACTOR SHALL ALSO REPAIR OR CLEAN ALL SOILED SURFACES, PAINTED SURFACES OR DAMAGED ARCHITECTURAL FINISHES TO MATCH THE ADJACENT AREA. WHERE REQUIRED, CLEANING, PATCHING OR PAINTING TO BRING THE AFFECTED SURFACE OR FINISH BACK TO ITS ORIGINAL CONDITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
19	COORDINATE ALL TELEPHONE AND DATA (LAN/WAN) INSTALLATION AND CONNECTION REQUIREMENTS WITH THE OWNERS IT DEPARTMENT REPRESENTATIVE AND THE GENERAL CONTRACTOR.
20	ALL CONDUITS AND CABLE PATHS SHALL RUN PARALLEL WITH OR AT RIGHT ANGLES TO THE WALLS, IF MORE THAN THREE 90 DEGREE BENDS ARE TO BE USED IN THE CONDUIT RUN, INSERT A PULL BOX. CONTRACTOR SHALL SIZE THE BOX ACCORDINGLY. CONDUITS SHALL BE SIZED AS INDICATED ON THE DRAWINGS OR LARGER AS REQUIRED TO COMPLY WITH CODE. MINIMUM ALLOWABLE CONDUIT SIZE SHALL BE 3/4".
21	WHERE THE CONTRACTOR HAS TO CHANGE ANY DEVICE TYPE OR MOUNTING TO SUIT ACTUAL CONDITIONS, THIS SHALL BE DONE WITHOUT EXTRA COST TO THE OWNERS. THIS INCLUDES ANY ADDITIONAL PART TO BE SUPPLIED BY THE CONTRACTOR TO ACCOMPLISH PROPER MOUNTING OF A DEVICE. HOWEVER, IT SHALL BE REQUESTED, SUBMITTED AND APPROVED IN WRITING BEFORE COMMENCING THE WORK.
22	PROVIDE PULL STRINGS IN ALL CONDUITS. PROVIDE BLANK COVERS ON ALL JUNCTION AND PULL BOXES.
23	THE CONTRACTOR SHALL UNDERTAKE THIS WORK IN ITS ENTIRETY IN ACCORDANCE WITH ITS DESIGN AND PURPOSE. ALL WORK SHALL BE CARRIED OUT IN A PROFESSIONAL MANNER WITH MAXIMUM EFFICIENCY AND EXCELLENT WORKMANSHIP.
24	SEE ARCHITECTURAL PLANS FOR FIRE RATED WALLS.
25	INSTALL EZ-PATH WALL PENETRATIONS AT ALL CABLING WALL PENETRATION LOCATIONS.
26	THE USE OF THE WORD "PROVIDE" IN CONNECTION WITH ANY ITEM SPECIFIED, IS INTENDED TO MEAN THAT SUCH SHALL BE FURNISHED, INSTALLED AND CONNECTED, WHERE SO REQUIRED, EXCEPT AS NOTED OTHERWISE.
27	ELECTRICAL CIRCUITS SHOWN IN THIS SET ARE FOR REFERENCE ONLY AND PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE ELECTRICAL SHEETS FOR CIRCUIT NUMBERS, CIRCUITING AND PANEL LOCATIONS.
28	SEE ARCHITECTURAL PLAN FOR EXITING.
29	IN THE EVENT OF A DISCREPANCY BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, WHICHEVER IS MORE STRINGENT OR CALLS FOR THE HIGHEST QUANTITY OR QUALITY OF MATERIALS HAS PRECEDENCE.
30	PRIOR TO SUBMITTAL OF BID, NOTIFY, IN WRITING, SPECIFIED MATERIALS OR EQUIPMENT WHICH ARE EITHER UNAVAILABLE OR WILL CAUSE A DELAY IN CONSTRUCTION COMPLETION SCHEDULE.
31	ALL EXIT DOORS TO REMAIN FREE OPENING FROM EXIT SIDE. U. O. N.
32	THE CONTRACTOR SHALL INCLUDE ANY COORDINATION, RELAYS, TIMERS, NETWORK CARDS, TERMINAL STRIPS, ETC., REQUIRED FOR A COMPLETELY FUNCTIONAL INTERFACE WITH ELEVATOR CONTROLLERS, FIRE ALARM SYSTEMS, DOOR HARDWARE AND AUTOMATIC DOOR OPERATORS. WHICH EVER IS APPLICABLE.
33	THE WORK AS DEFINED IN THE QY SERIES DRAWINGS INCLUDING THE SYMBOLS LEGEND, GENERAL NOTES, NOTES TO SHEET, DETAILS AND FLOOR PLANS IS TO PROVIDE COMPLETE TURNKEY SECURITY SYSTEMS INCLUDING ALL SOFTWARE, HARDWARE, DEVICES, WIRE, CONDUIT, BACKBOXES, JUNCTION BOXES AND WIREWAYS.
34	COORDINATE THE WORK WITH THE RELATED WORK OF OTHER TRADES INCLUDING, BUT NOT LIMITED TO, ELECTRICAL, FIRE ALARM, IT, ELEVATOR AND DOOR HARDWARE.
35	REFER TO THE DETAILS FOR ADDITIONAL INFORMATION ON THE INSTALLATION REQUIRMENTS FOR EACH DEVICE.
36	CONDUIT, BACKBOXES, JUNCTION BOXES, WIREWAYS AND WIRING SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE (CEC).
37	CONDUIT SHALL BE 3/4" UNLESS NOTED OTHERWISE.
38	CONDUIT USED IN POTENTIALLY DAMP OR WET LOCATIONS, EXPOSED OUTDOORS OR IN HAZARDOUS AREAS SHALL BE INTERMEDIATE STEEL CONDUIT (IMC).
39	IN SLAB OR BURIED BELOW GRADE CONDUIT SHALL BE PVC.
40	CONDUIT OTHER THAN SPECIFIED TO BE IMC OR PVC SHALL BE ELECTRICAL METALLIC TUBING (EMT).
41	ROUTE CONDUIT ABOVE CEILINGS, BELOW FLOORS OR WITHIN WALLS; NO CONDUIT SHALL BE EXPOSED UNLESS APPROVED BY THE ARCHITECT/OWNER.
42	SEAL CONDUIT AND WIRING PENETRATIONS THROUGH FIRE RATED PARTITIONS AS REQUIRED BY CODE.
43	PROVIDE WATER TIGHT GLAND SEALING ASSEMBLIES WITH PRESSURE BUSHING AS REQUIRED FOR EXTERIOR PENETRATIONS.
44	PROVIDE PULL STRINGS IN ALL CONDUIT.
45	CONDUIT ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO REPRESENT INSTALLED PATHS OR DISTANCES. THE INSTALLING CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH OTHER DISCIPLINES.
46	BACKBOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE.
47	BACKBOXES MOUNTED WITHIN FIRE RATED PARTITIONS SHALL MEET THE FIRE RATING OF THE PARTITION AS REQUIRED BY CODE.
48	PROVIDE JUNCTION AND PULL BOXES AS REQUIRED BY CEC.
49	PROVIDE BLANK COVER PLATES FOR JUNCTION AND PULL BOXES.
50	JUNCTION AND PULL BOXES LOCATED IN EXPOSED ACCESSIBLE AREAS SHALL BE SECURED WITH TAMPER PROOF SCREWS AND SHALL NOT BE LABELED SECURITY.
51	BACKBOX, JUNCTION AND PULL BOXES IN EXTERIOR LOCATIONS SHALL BE WATERPROOF.
52	ROUTE WIRING WITHIN CONDUIT OR EXPOSED WITHIN WALLS, ABOVE ACCESSIBLE CEILINGS, BELOW ACCESSIBLE FLOORS, IN CABLE TRAYS OR IN RISER CLOSETS.
53	PROVIDE WIRING SUPPORTS FASTENED TO STRUCTURE IN ACCORDANCE FOR ALL WIRING NOT ROUTED IN CONDUIT OR CABLE TRAY.

SYMBOL LEGEND

TYPICAL SYMBOLS

◯	NOTES TO SHEET
▬▬▬	NEW J-HOOK PATHWAY, INSTALL PER DETAIL 1 & 2/SE5.02

SYMBOL	DESCRIPTION	CABLE TYPE	MOUNTING/HEIGHT	ROUGH-IN	NOTES	DETAIL
⏀	POWER OUTLET	N/A	+18" U.O.N.	PROVIDE 3/4" C.O. TO POINT ABOVE ACCESSIBLE CEILING SPACE OR AS OTHERWISE INDICATED	BY OTHERS	N/R
▽	DATA OUTLET (2) RJ45 PORTS - U.O.N.	N/A	SEE PLANS	BY OTHERS	BY OTHERS	N/A
ACP	ACCESS CONTROL PANEL	D	WALL/48" AFF TO TOP OF BOX	SEE DETAIL		3/SE5.01
ARM	ARMING STATION	C	WALL/48" AFF TO TOP OF BOX	SEE DETAIL		N/R
C2	SURFACE MOUNTED ROLL UP DOOR CONTACT.	B	WALL	SEE DETAIL		5/SE5.02
CA	CARD READER/ARMING KEYPAD	C	WALL/40" ON CENTER AFF	SEE DETAIL		6/SE5.01
CK	CARD READER/KEYPAD	A/B	WALL	SEE DETAIL	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).	1/SE5.01
CM	CARD READER-MULLION MOUNT	A/B	MULLION/40" ON CENTER AFF	SEE DETAIL	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).	9/SE5.01
CR	CARD READER	A/B	WALL/40" ON CENTER AFF	4" X 4" X 2 1/8" DEEP BOX WITH SINGLE GANG DEVICE RING FLUSH MOUNTED AT 3'-6" ON CENTER	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).	1, 2 OR 4/SE5.01
EC	ELEVATOR CONTROLLER	(2) C	WALL	PROVIDE 3/4" C.O. TO POINT ABOVE ACCESSIBLE CEILING SPACE OR AS OTHERWISE INDICATED		N/R
GB	GLASS BREAK	N/A	WALL	N/A	(E) DEVICE, DEMOLISH	N/R
IAP	INTRUSION ALARM PANEL	D	WALL/48" AFF TO TOP OF BOX	SEE DETAIL		3/SE5.01
KP	KEYPAD/ARMING PAD	C	WALL/48" AFF TO TOP OF BOX	SEE DETAIL		6/SE5.01
LB	LOCKDOWN BUTTON	B	WALL/40" ON CENTER AFF	4" X 4" X 2 1/8" DEEP BOX WITH SINGLE GANG DEVICE RING FLUSH MOUNTED AT 3'-6" ON CENTER		4/SE5.02
M1	MOTION DETECTOR	B	CEILING	SEE DETAIL		5/SE5.01
M2	MOTION DETECTOR	B	WALL	SEE DETAIL		3/SE5.02
PP	PUSH PLATE	N/A	WALL	BY OTHERS		3/SE5.02
PS	POWER SUPPLY	E	WALL	SEE DETAIL		3/SE5.01

CABLE LEGEND

CABLE SET	DEVICE	BELDEN PART # OR EQUIVILENT	DESCRIPTION
A	PROXIMITY CARD READER	6584FS	PLENUM RATED 22/6 READER,22/2 DC, 22/4 REX,18/4 LOCK COMPOSITE CABLE
B	DEVICE CONTACT, LOCKDOWN BUTTON, MOTION DETECTOR, DOOR RELEASE	6502FE	PLENUM RATED 22/4 SHIELDED CABLE
C	ARMING READER, KEYPAD/ARMING KEYPAD	WINDY CITY WIRE 004351	PLENUM RATED 22/6 SHIELDED CABLE
D	DATA OUTLET, ACCESS CONTROL PANEL INTRUSION PANEL	PER SPECIFICATIONS	PER DIV 27 SPECIFICATIONS
E	POWER SUPPLY	BY ELECTRICAL CONTRACTOR	120 VAC HARDWIRED CONNECTION. SEE DETAIL SE5.01 FOR MORE INFORMATION.

ABBREVIATIONS

(E)	EXISTING
(F)	FUTURE
(N)	NEW
(REM)	REMOVE
(REP)	REPLACE
A.F.F.	ABOVE FINISHED FLOOR
A.G.L.	ABOVE GROUND LEVEL
AWG	AMERICAN WIRE GAUGE
B.P.	BOTTOM PLATE
BKR	BREAKER
BLDG	BUILDING
BAS	BUILDING AUTOMATION SYSTEM
CLG	CEILING
CKT	CIRCUIT
CONC.	CONCRETE
C	CONDUIT
CONT.	CONTINUATION
C.E.	CONTROLLER ELECTRONICS
DIA	DIAMETER
DIM.	DIMENSION
DPDT	DOUBLE POLE DOUBLE THROW
DWG.	DRAWING
ELECT.	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
ELEV.	ELEVATION
FIN.	FINISHED
FLR.	FLOOR
GRD	GROUND
Hz	HERTZ
N.I.C.	NOT IN THE CONTRACT
NO.	NUMBER
O.C.	ON CENTER
PTZ	PAN TILT ZOOM
PNL	PANEL
PH	PHASE (ELECTRICAL)
PWR	POWER
(RN)	REMAIN
RSC	RIGID STEEL CONDUIT
RM	ROOM
SER	SECURITY EQUIPMENT ROOM
SHT	SHEET
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLTS
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
WP	WEATHERPROOF

SHEET INDEX

SHEET	DESCRIPTION
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SE0.02	SITE SECURITY PLAN
SE2.01	SECURITY DEMOLITION PLAN
SE2.02	SECURITY PLAN - FIRST FLOOR
SE3.01	SECURITY PLAN - SECOND FLOOR
SE5.01	SECURITY DETAILS
SE5.02	SECURITY DETAILS
SE6.01	DEVICE SCHEDULE & SECURITY RISER DIAGRAM
SE10.01	SECURITY REFLECTED CEILING PLAN - FIRST FLOOR

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PBK

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MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
--

DATE: 2020/11/10
DRAWN BY: CK, TT
CHECKED BY: JT, JW

REVISIONS

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	100% CONSTRUCTION DOCUMENTS	11/10/2020

100% CONSTRUCTION DOCUMENTS

SECURITY GENERAL INFORMATION AND SYMBOL LEGEND

SE0.00

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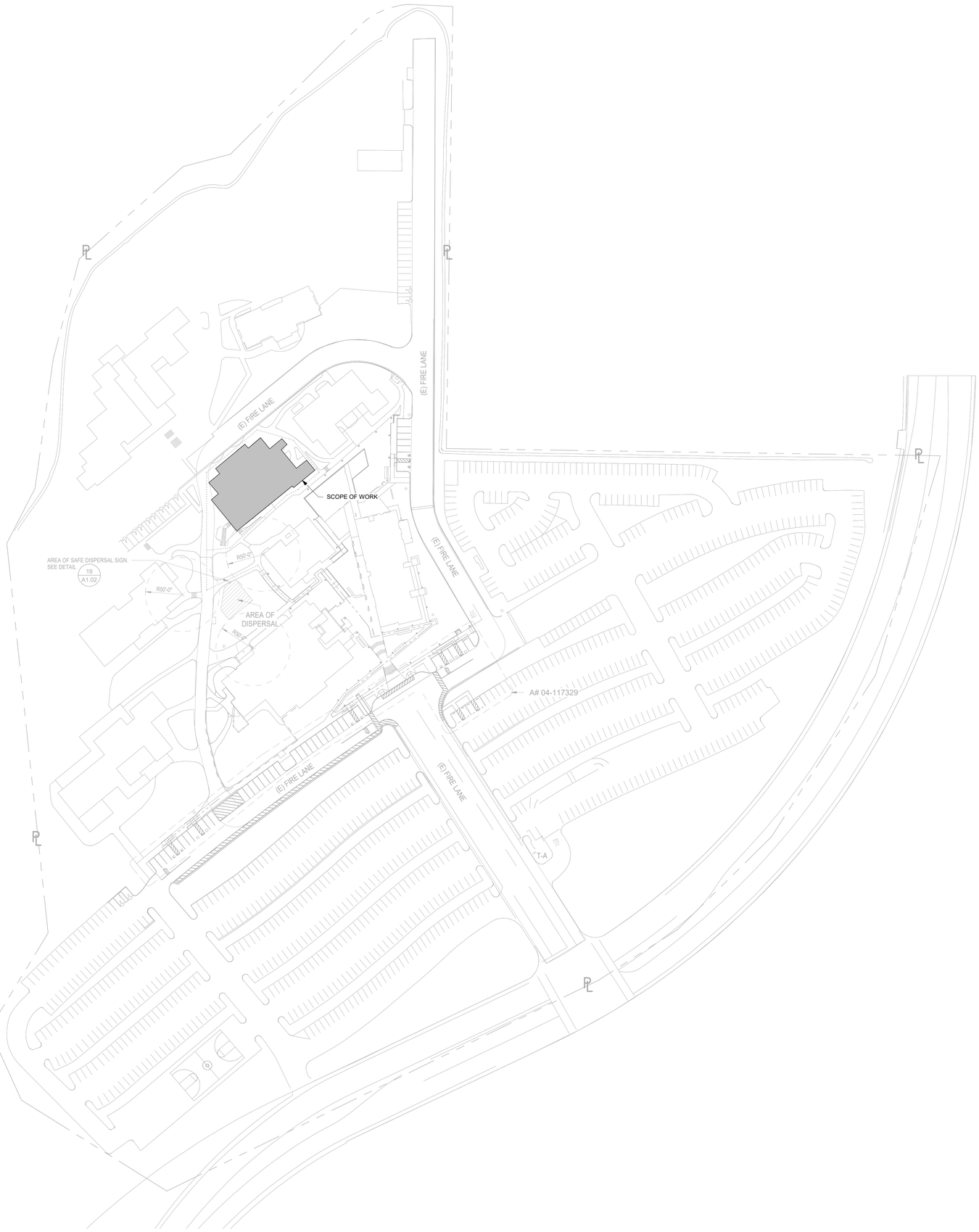

1 SECURITY SITE PLAN
1" = 60'-0"

N
PROJECT NORTH

N
TRUE NORTH

DSA FILE NO: 37-C2 A# 04-119030

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COLLEGE DISTRICT

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DATE:	2020/11/10
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CHECKED BY:	JT, JW

REVISIONS

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SITE SECURITY PLAN

SE0.02

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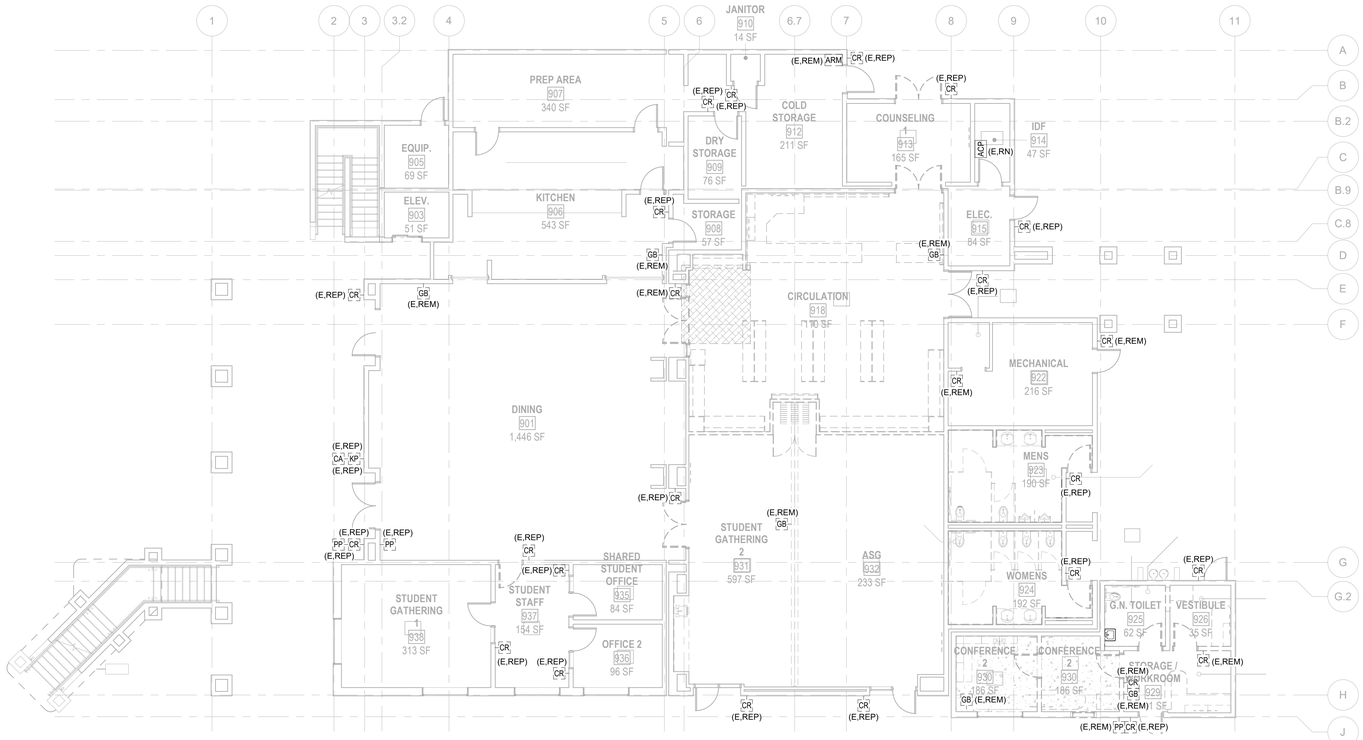

DEMO NOTES:

A. EXISTING DEVICES TO BE CARD READER, GLASS BREAK PUSH PLATE AND ARMING STATION TO BE REMOVED/REPLACED WHERE NOTED.

B. ACCESS CONTROL PANEL IS TO REMAIN IN OPERATION. CONTRACTOR SHALL REUSE EXISTING CABLING WHEN INSTALLING NEW CARD READER DEVICES.

C. PROTECT IN PLACE ALL EXISTING SECURITY CABLING.

N

PROJECT NORTH

1 SECURITY DEMOLITION PLAN - LEVEL 1
1/8" = 1'-0"

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ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

3333 Manchester Ave, Cardiff, CA 92007

100% CONSTRUCTION DOCUMENTS

MiraCosta College

CONSULTANT

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ENGINEER

REGISTERED PROFESSIONAL ENGINEER
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ELECTRICAL
STATE OF CALIFORNIA

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CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
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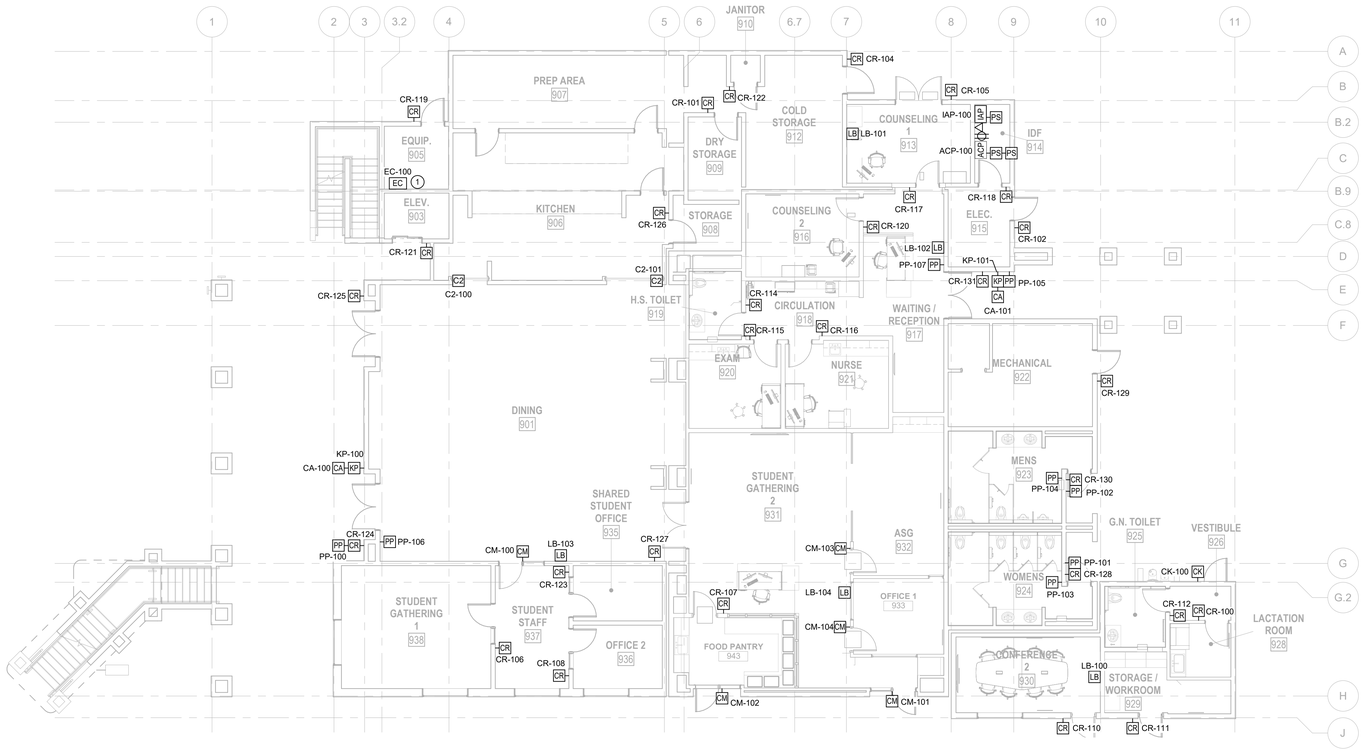
SECURITY DEMOLITION PLAN

SE2.01



PROJECT NORTH

1 SECURITY PLAN - FIRST FLOOR
1/8" = 1'-0"

GENERAL NOTES:

A. SECURITY CONTRACTOR SHALL PROVIDE NEW J-HOOK PATHWAY TO SUPPORT NEW CABLING. INSTALL J-HOOKS MAXIMUM 5'-0" O.C. ALONG ENTIRE PATHWAY PER DETAILS 1 & 2/SE5.02.

B. SECURITY CONTRACTOR SHALL COORDINATE FULL HEIGHT WALL PENETRATION LOCATIONS WITH ELECTRICAL CONTRACTOR VIA SHOP DRAWING SUBMITTAL. ELECTRICAL CONTRACTOR SHALL INSTALL FIRE PENETRATIONS AS REQUIRED FOR SECURITY CABLING. PENETRATION ASSEMBLY SHALL MATCH THE RATING OF THE WALL BEING PENETRATED.

C. REFER TO DEMOLITION SHEET SE2.01 FOR LOCATIONS TO REUSE EXISTING INFRASTRUCTURE.

D. ANY SECURITY CABLING THAT ORIGINATES OR PASSES THROUGH HARD LID CEILING OR ELECTRICAL OR MECHANICAL SPACES SHALL BE IN CONDUIT.

SHEET NOTES:

(1) SECURITY CONTRACTOR SHALL COORDINATE WITH ELEVATOR VENDOR TO PROVIDE APPROPRIATE CONNECTIONS AT THE ELEVATOR EQUIPMENT ROOM FOR THE CARD READERS AT LEVEL 1 AND 2. ELEVATOR CARD READER SHALL CALL THE ELEVATOR UPON VALID CREDENTIAL.

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SECURITY PLAN - FIRST FLOOR

SE2.02

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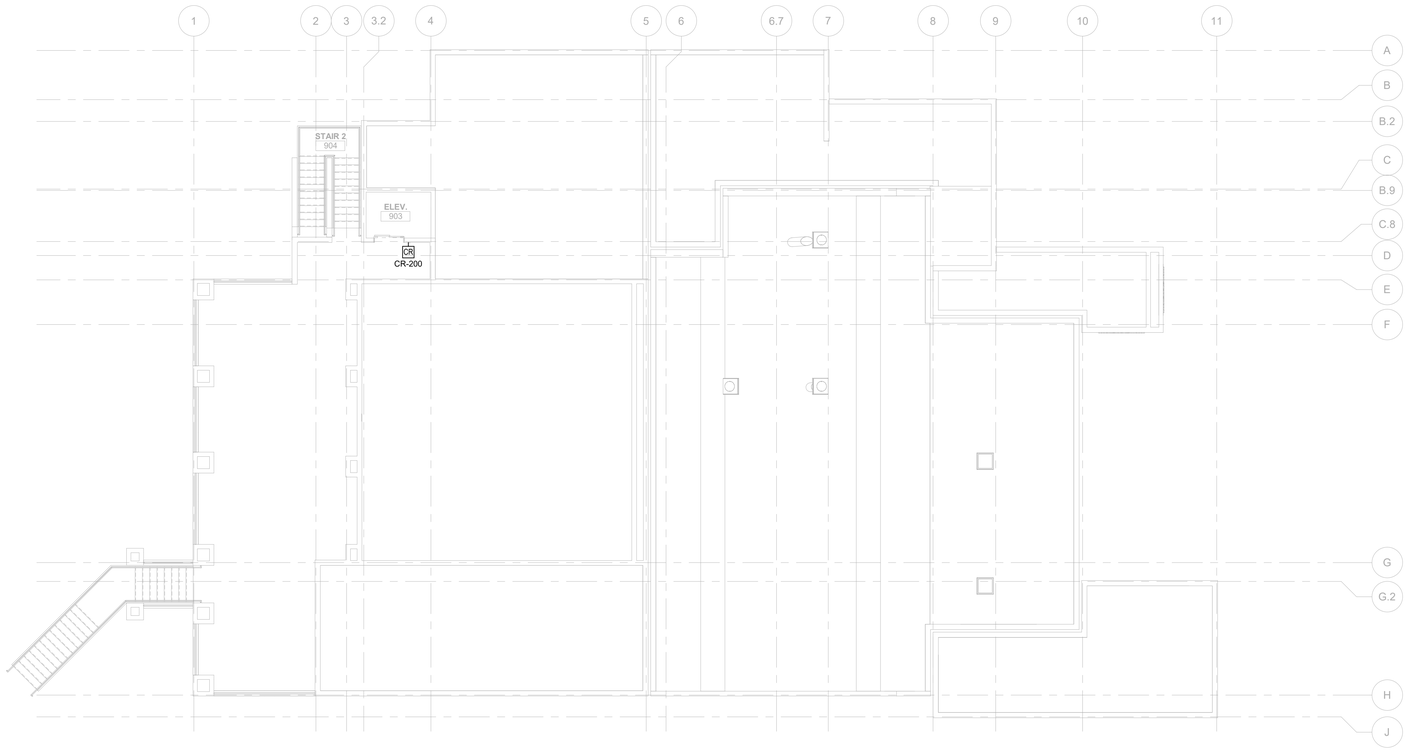

GENERAL NOTES:

A. SECURITY CONTRACTOR SHALL PROVIDE NEW J-HOOK PATHWAY TO SUPPORT NEW CABLING. INSTALL J-HOOKS MAXIMUM 5'-0" O.C. ALONG ENTIRE PATHWAY PER DETAILS 1 & 2/SE5.02.

B. FIRE RATED PENETRATIONS SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR THROUGH ALL FULL HEIGHT WALLS. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE PENETRATION ASSEMBLY TO MATCH THE RATING OF THE WALL BEING PENETRATED.

N

PROJECT NORTH

1 SECURITY PLAN - SECOND FLOOR
1/8" = 1'-0"

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SECURITY PLAN - SECOND FLOOR

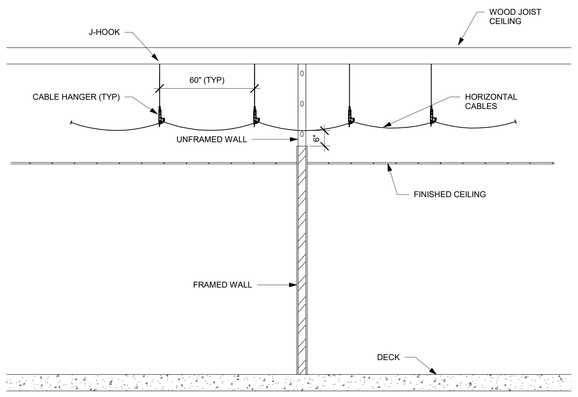
SE3.01

GENERAL NOTES:

A. DO NOT TIE CABLES TO STUDS.

B. DO NOT REST/SUPPORT CABLES ON TOP OF FRAMED ALL.

C. SECURITY CONTRACTOR TO PROVIDE AND INSTALL CABLE HANGERS AND RETAINING CLIPS FOR ALL SECURITY CABLING.



8 CABLE ROUTING THROUGH LOW PROFILE PARTITIONS
NTS

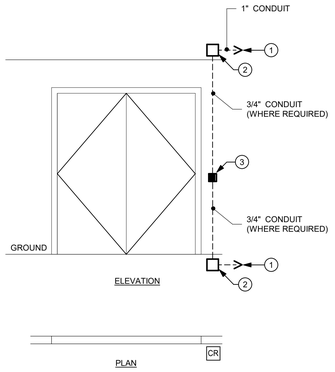
NOTES TO DETAIL:

1. CONDUIT-ROUTE TO NEAREST ACCESSIBLE CEILING, CABLE TRAY OR HOME RUN TO NEAREST SECURITY RISER LOCATION.
2. JUNCTION BOX-10"x10"x6" (HXWXD) NEMA 1 ENCLOSURE HOFFMAN A-10N10ALP WITH A 10N10MP MOUNTED ABOVE ACCESSIBLE CEILING OR CONNECT CONDUIT TO JUNCTION BOX ABOVE DOOR ON SECURE SIDE (UNLESS NOTES OTHERWISE). SECURE HINGE COVER WITH TAMPER RESISTANT SCREWS.
3. CARD READER-4"x4"x2 1/8" BOX WITH SINGLE GANG DEVICE RING FLUSH MOUNTED, 40" AFF TO CENTER OF BOX.

GENERAL NOTES:

A. COORDINATE DIMENSIONS WITH ARCHITECT AND ELEVATOR VENDOR PRIOR TO ROUGH-IN.

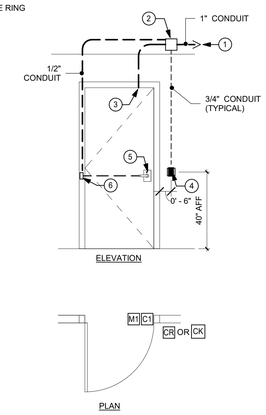
B. STUB CONDUIT UP FOR FIRST FLOOR AND STUB DOWN FOR SECOND FLOOR.



4 ELEVATOR CARD READER DETAIL
NTS

NOTES TO DETAIL:

1. CONDUIT - ROUTE TO NEAREST ACCESSIBLE CEILING, CABLE TRAY OR HOME RUN TO NEAREST SECURITY RISER LOCATION.
2. JUNCTION BOX - 10"X10"X6" (HXWXD) NEMA 1 ENCLOSURE HOFFMAN A -10N10ALP WITH A 10N10MP MOUNTED ABOVE ACCESSIBLE CEILING OR CONNECT CONDUIT TO JUNCTION BOX ABOVE DOOR ON SECURE SIDE (UNLESS NOTES OTHERWISE). SECURE HINGE COVER WITH TAMPER RESISTANCT SCREWS.
3. CONDUIT - STUB CONDUIT INTO HEAD OF DOOR FRAME 6" FROM STRIKE SIDE OF FRAME FOR POSITION SWITCH.
4. CARD READER - 4" X 4" X 2 1/8" DEEP BOX WITH SINGLE GANG DEVICE RING FLUSH MOUNTED.
5. ELECTROMECHANICAL LOCKSET.
6. CONDUIT - STUB CONDUIT DOWN DOOR FRAME AND CONNECT TO BACKBOX FOR POWER TRANSFER.



1 DOOR ROUGH-IN DETAIL - CARD READER/ ELECTROMECHANICAL LOCK W/ INTEGRAL REQUEST-TO-EXIT
NTS

GENERAL NOTES:

A. DO NOT TIE CABLES TO BUILDING STRUCTURES.

B. ELECTRTICAL CONTRACTOR TO PROVIDE WALL PENETRATION SLEEVES AS REQUIRED.

C. SIZE BASE ON QUANTITY OF CABLES PLUS 40% SPARE CAPACITY.

D. PROVIDE BUSHING ON SLEEVE AND CONDUIT ENDS.

E. SECURITY CONTRACTOR TO PROVIDE AND INSTALL CABLE HANGERS AND RETAINING CLIPS FOR ALL SECURITY CABLING.

7 CABLE ROUTING THROUGH FULL HEIGHT PARTITIONS
NTS

GENERAL NOTES:

1. MOTION DETECTOR SHALL BE PASSIVE INFRARED.
2. PROVIDE E.O.L. RESISTOR AS REQUIRED FOR SUPERVISED CIRCUIT.
3. INSTALLATION IS TYPICAL FOR DEVICE TYPE. REFER TO DEVICE LEGEND AND FLOOR PLAN FOR SPECIFIC TYPE.

5 TYPICAL REQUIREMENTS FOR CEILING MOUNTED MOTION DETECTOR, 360 DEGREE
NTS

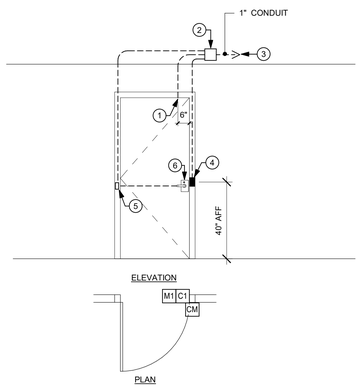
NOTES TO DETAIL:

1. CONCEALED DOOR POSITION SWITCH-STUB CONDUIT INTO HEAD OF DOOR FRAME.
2. JUNCTION BOX-10"x10"x6" (HXWXD) NEMA 1 ENCLOSURE HOFFMAN A-10N10ALP WITH A 10N10MP MOUNTED ABOVE ACCESSIBLE CEILING OR CONNECT CONDUIT TO JUNCTION BOX ABOVE DOOR ON SECURE SIDE (UNLESS NOTES OTHERWISE). SECURE HINGE COVER WITH TAMPER RESISTANT SCREWS.
3. CONDUIT-ROUTE TO NEAREST ACCESSIBLE CEILING, CABLE TRAY OR HOME RUN TO NEAREST SECURITY RISER LOCATION.
4. CARD READER-4"x4"x2 1/8" BOX WITH SINGLE GANG DEVICE RING FLUSH MOUNTED, 40" AFF TO CENTER OF BOX.
5. CONDUIT STUB DOWN INTO DOOR FRAME WITH PULL STRING ROUTED TO ELECTRICIFED HINGE LOCATION.
6. CRASH-BAR

2 DOOR ROUGH-IN DETAIL - CARD READER- ELECTRIFIED EXIT DEVICE WITH INTEGRAL REQUEST TO EXIT SENSOR
NTS

NOTES TO DETAIL:

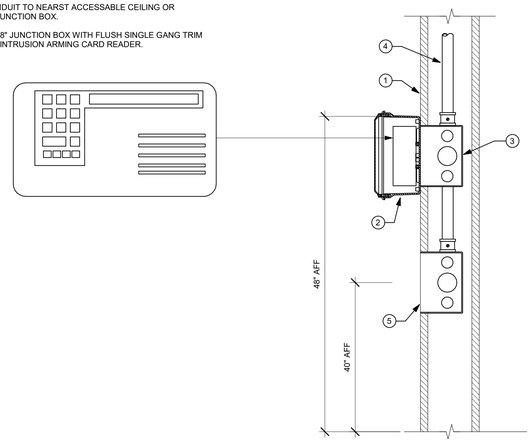
1. CONCEALED DOOR POSITION SWITCH-STUB CONDUIT INTO HEAD OF DOOR FRAME. DPDT CONTACT REQUIRED AT EVERY EXTERIOR PERIMETER DOOR. SEPERATE CONNECTION TO IDS AND ACS.
2. JUNCTION BOX-10"x10"x6" (HXWXD) NEMA 1 ENCLOSURE HOFFMAN A-10N10ALP WITH A 10N10MP MOUNTED ABOVE ACCESSIBLE CEILING OR CONNECT CONDUIT TO JUNCTION BOX ABOVE DOOR ON SECURE SIDE (UNLESS NOTES OTHERWISE). SECURE HINGE COVER WITH TAMPER RESISTANT SCREWS.
3. CONDUIT-ROUTE TO NEAREST ACCESSIBLE CEILING, CABLE TRAY OR HOME RUN TO NEAREST SECURITY RISER LOCATION.
4. CARD READER MULLION MOUNTED.
5. CONDUIT STUB DOWN INTO DOOR FRAME WITH PULL STRING ROUTED TO ELECTRICIFED HINGE LOCATION.
6. ELECTROMECHANICAL LOCKSET.



9 DOOR ROUGH-IN DETAIL - CARD READER-MULLION/ ELECTROMECHANICAL LOCK W/ INTEGRAL REQUEST-TO-EXIT
NTS

NOTES TO DETAIL:

1. EXTERIOR WALL.
2. SEPERATE OUTDOOR RATED STI-7511B FLIP COVER ENCLOSURE TO HOUSE INDOOR INTRUSION KEYPAD.
3. 4" X 4" X 2 1/8" JUNCTION BOX WITH FLUSH SINGLE GANG TRIM PLATE FOR BOSCH KEYPAD.
4. ROUTE CONDUIT TO NEARST ACCESSABLE CEILING OR SECURITY JUNCTION BOX.
5. 4" X 4" X 2 1/8" JUNCTION BOX WITH FLUSH SINGLE GANG TRIM PLATE FOR INTRUSION ARMING CARD READER.



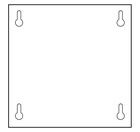
6 TYPICAL WALL MOUNTED KEYPAD/ARMING PAD
NTS

NOTES TO DETAIL:

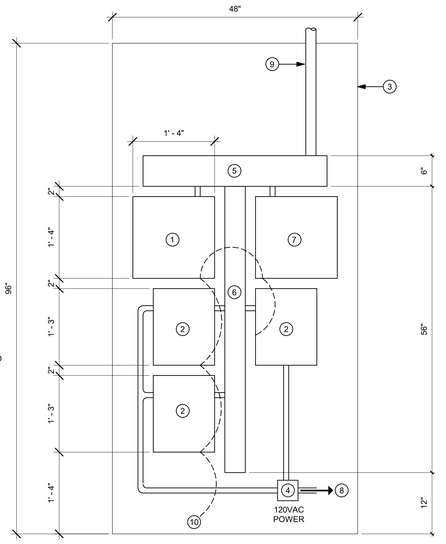
1. ACCESS CONTROL PANEL 16"X16".
2. POWER SUPPLY.
3. 4' X 8' X 3/4" FIRE TREATED PLYWOOD. ENSURE FIRE RATING IS VISABLE. DO NOT PAINT. (PROVIDED BY ELECTRICAL CONTRACTOR)
4. 4" X 4" STANDARD JUNCTION BOX (PROVIDED BY ELECTRICAL CONTRACTOR).
5. 6"W X 6"H X 36"L GUTTER. (PROVIDED BY ELECTRICAL CONTRACTOR)
6. 4" X 4" X 56" GUTTER WITH SCREW COVERS. (PROVIDED BY ELECTRICAL CONTRACTOR)
7. INTRUSION ALARM PANEL.
8. (2) DEDICATED 120VAC CIRCUITS. (1) FOR ACP AND (1) FOR IAP. (BY ELECTRICAL CONTRACTOR)
9. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT FROM GUTTER TO ACCESSABLE CEILING. CONDUIT TO BE PROPERLY SIZED FOR ALL SECRUITY CABLE NOT TO EXCEED 40% FILL
10. CONTRACTOR TO PROVIDE PROPER GROUNDING OF SECURITY PANELS PER SPECIFICATIONS

GENERAL NOTE:

1. SECURE NEW SECURITY PANELS AND POWER SUPPLIES ENCLOSERS TO PLYWOOD BACK BOARD WITH #8 SCREWS IN EACH MANUFACTURER PROVIDED MOUNTING HOLE, TYP.



TYPICAL ENCLOSURE MOUNTING



3 ACP/IAP DETAIL
NTS

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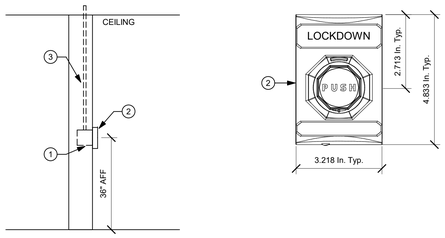
SECURITY DETAILS

SE5.01

NOTES TO DETAIL:

1. 4S WALL BOX WITH SINGLE GANG REDUCER RING.
2. STI SS2324LD-EN WHITE, MOMENTARY PUSHBUTTON WITH SHIELD.
3. 3/4" CONDUIT TO ACCESSIBLE CEILING.

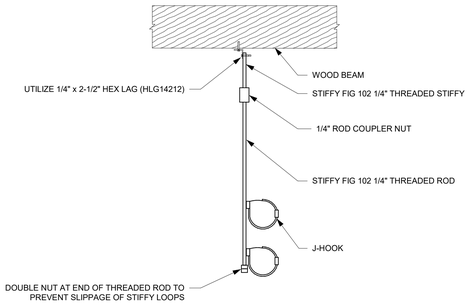


4 LOCK DOWN BUTTON
NTS

GENERAL NOTES:

A. MAX. WEIGHT PER HANGER = 20 LBS.

B. MAX. SUPPORT SPACING = 5'-0" O.C.



1 CEILING MOUNTED J-HOOK SUPPORTS
NTS

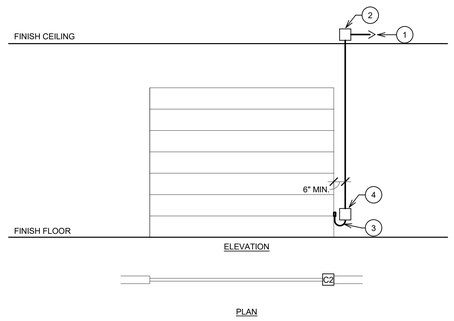
GENERAL NOTE:

A. CONTRACTOR TO REFERENCE DOOR HARDWARE SPECIFICATIONS FOR REQUEST TO EXIT REQUIREMENTS. TYPICAL DOORS WILL HAVE INTEGRAL REQUEST TO EXIT U.O.N. ON DOOR HARDWARE SPECIFICATIONS.

B. PROVIDE 3/4" EMT CONDUIT U.O.N.

NOTES TO DETAIL:

1. CONDUIT - ROUTE TO NEAREST ACCESSIBLE CEILING, CABLE TRAY OR HOME RUN TO NEAREST SECURITY RISER LOCATION.
2. JUNCTION BOX - 6" X 6" X 4" DEEP BOX WITH BLANK COVER PLATE MOUNTED ABOVE DOOR. JUNCTION BOX LOCATED ON SECURE SIDE (UNLESS NOTED OTHERWISE).
3. CONDUITS - ARMORED CABLE FOR SURFACE MOUNTED DOOR CONTACT FURNISHED AND INSTALLED BY SECURITY CONTRACTOR.
4. JUNCTION BOX - 4S BOX MOUNTED AT 18" AFF FOR DOOR POSITION SWITCH.

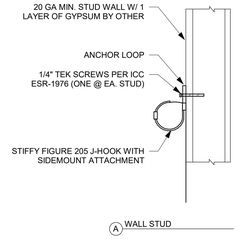


5 OVERHEAD DOOR POSITION SWITCH
NTS

GENERAL NOTES:

A. MAX. WEIGHT PER HANGER = 20 LBS.

B. MAX. SUPPORT SPACING = 5'-0" O.C.



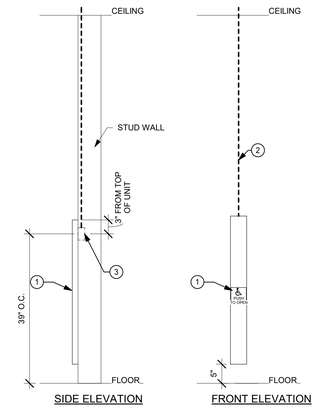
2 WALL MOUNTED J-HOOK DETAIL
NTS

NOTES TO DETAIL:

A. SEE ARCHITECTURAL ELEVATIONS FOR FINAL DIMENSIONS AND COORDINATE WITH DOOR HARDWARE INSTALLER PRIOR TO ROUGH-IN.

B. INSTALLATION OF PUSHPLATES BY OTHERS.

C. MAINTAIN RATED WALL ASSEMBLY WHERE INSTALLED WITHIN A RATED WALL.



NOTES TO DETAIL:

1. PUSHPLATE (INSTALLED BY OTHERS)
2. CONUIT TO ACCESSIBLE CIELING SPACE.
3. 2-GANG FLUSH MOUNT BACKBOX.

3 PUSHPLATE (4.25"x36") INFRASTRUCTURE
NTS

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SE5.02

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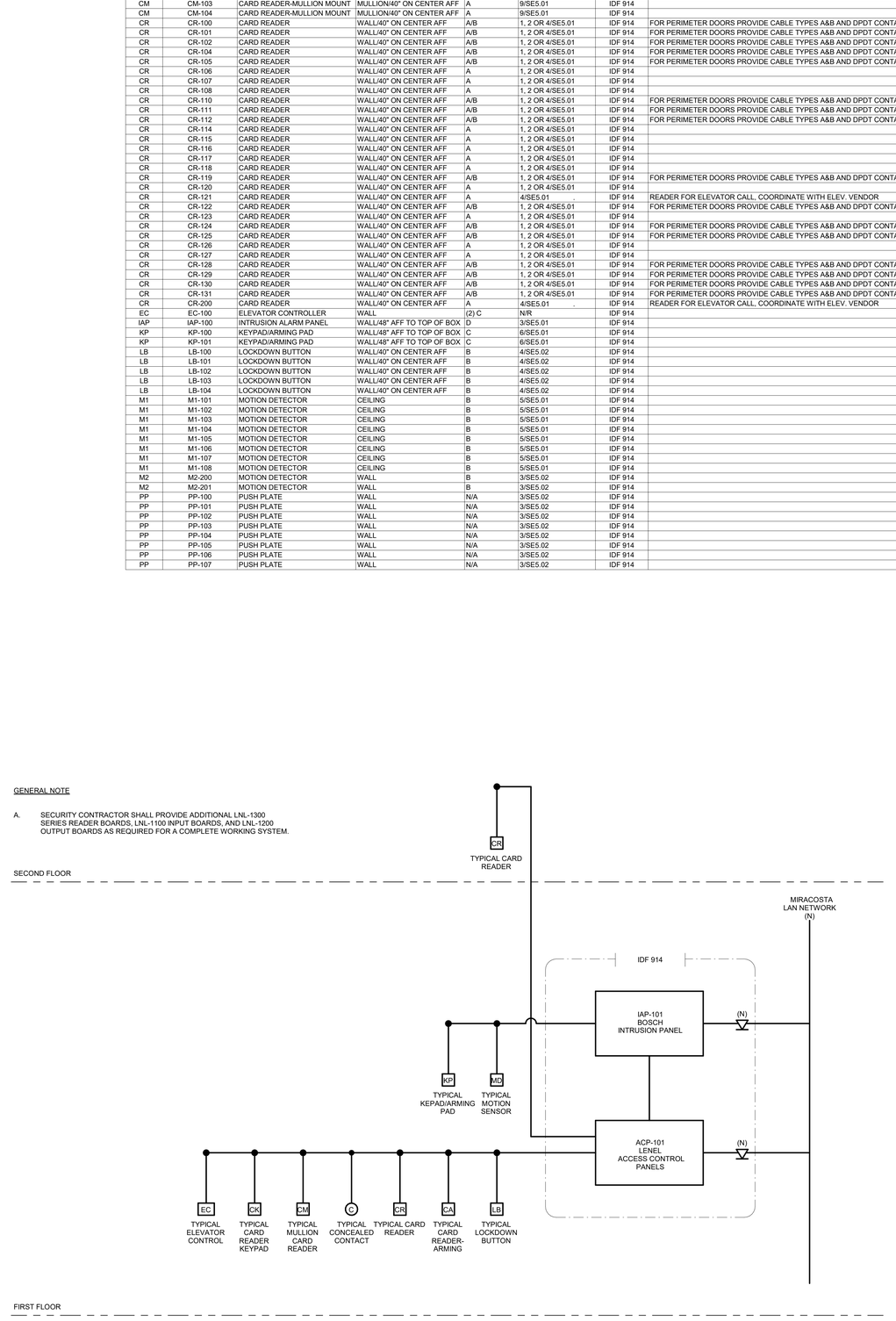
SECURITY DEVICE SCHEDULE

SYMBOL	DEVICE ID	DESCRIPTION	MOUNTING	CABLE TYPE	5DETAIL	TERMINATION	NOTES
ACP	ACP-100	ACCESS CONTROL PANEL	WALL/48" AFF TO TOP OF BOX	D	3/SE5.01	IDF 914	
C2	C2-100	SURFACE MOUNTED ROLL UP DOOR CONTACT.	WALL	B	5/SE5.02	IDF 914	
C2	C2-101	SURFACE MOUNTED ROLL UP DOOR CONTACT.	WALL	B	5/SE5.02	IDF 914	
CA	CA-100	CARD READER/ARMING KEYPAD	WALL/40" ON CENTER AFF	C	6/SE5.01	IDF 914	
CA	CA-101	CARD READER/ARMING KEYPAD	WALL/40" ON CENTER AFF	C	6/SE5.01	IDF 914	
CK	CK-100	CARD READER/KEYPAD	WALL	A/B	1/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CM	CM-100	CARD READER-MULLION MOUNT	MULLION/40" ON CENTER AFF	A	9/SE5.01	IDF 914	
CM	CM-101	CARD READER-MULLION MOUNT	MULLION/40" ON CENTER AFF	A/B	9/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CM	CM-102	CARD READER-MULLION MOUNT	MULLION/40" ON CENTER AFF	A/B	9/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CM	CM-103	CARD READER-MULLION MOUNT	MULLION/40" ON CENTER AFF	A	9/SE5.01	IDF 914	
CM	CM-104	CARD READER-MULLION MOUNT	MULLION/40" ON CENTER AFF	A	9/SE5.01	IDF 914	
CR	CR-100	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-101	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-102	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-104	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-105	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-106	CARD READER	WALL/40" ON CENTER AFF	A	1, 2 OR 4/SE5.01	IDF 914	
CR	CR-107	CARD READER	WALL/40" ON CENTER AFF	A	1, 2 OR 4/SE5.01	IDF 914	
CR	CR-108	CARD READER	WALL/40" ON CENTER AFF	A	1, 2 OR 4/SE5.01	IDF 914	
CR	CR-110	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-111	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-112	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-114	CARD READER	WALL/40" ON CENTER AFF	A	1, 2 OR 4/SE5.01	IDF 914	
CR	CR-115	CARD READER	WALL/40" ON CENTER AFF	A	1, 2 OR 4/SE5.01	IDF 914	
CR	CR-116	CARD READER	WALL/40" ON CENTER AFF	A	1, 2 OR 4/SE5.01	IDF 914	
CR	CR-117	CARD READER	WALL/40" ON CENTER AFF	A	1, 2 OR 4/SE5.01	IDF 914	
CR	CR-118	CARD READER	WALL/40" ON CENTER AFF	A	1, 2 OR 4/SE5.01	IDF 914	
CR	CR-119	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-120	CARD READER	WALL/40" ON CENTER AFF	A	1, 2 OR 4/SE5.01	IDF 914	
CR	CR-121	CARD READER	WALL/40" ON CENTER AFF	A	4/SE5.01	IDF 914	READER FOR ELEVATOR CALL, COORDINATE WITH ELEV. VENDOR
CR	CR-122	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-123	CARD READER	WALL/40" ON CENTER AFF	A	1, 2 OR 4/SE5.01	IDF 914	
CR	CR-124	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-125	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-126	CARD READER	WALL/40" ON CENTER AFF	A	1, 2 OR 4/SE5.01	IDF 914	
CR	CR-127	CARD READER	WALL/40" ON CENTER AFF	A	1, 2 OR 4/SE5.01	IDF 914	
CR	CR-128	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-129	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-130	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-131	CARD READER	WALL/40" ON CENTER AFF	A/B	1, 2 OR 4/SE5.01	IDF 914	FOR PERIMETER DOORS PROVIDE CABLE TYPES A&B AND DPDT CONTACT(S).
CR	CR-200	CARD READER	WALL/40" ON CENTER AFF	A	4/SE5.01	IDF 914	READER FOR ELEVATOR CALL, COORDINATE WITH ELEV. VENDOR
EC	EC-100	ELEVATOR CONTROLLER	WALL	(2) C	N/R	IDF 914	
IAP	IAP-100	INTRUSION ALARM PANEL	WALL/48" AFF TO TOP OF BOX	D	3/SE5.01	IDF 914	
KP	KP-100	KEYPAD/ARMING PAD	WALL/48" AFF TO TOP OF BOX	C	6/SE5.01	IDF 914	
KP	KP-101	KEYPAD/ARMING PAD	WALL/48" AFF TO TOP OF BOX	C	6/SE5.01	IDF 914	
LB	LB-100	LOCKDOWN BUTTON	WALL/40" ON CENTER AFF	B	4/SE5.02	IDF 914	
LB	LB-101	LOCKDOWN BUTTON	WALL/40" ON CENTER AFF	B	4/SE5.02	IDF 914	
LB	LB-102	LOCKDOWN BUTTON	WALL/40" ON CENTER AFF	B	4/SE5.02	IDF 914	
LB	LB-103	LOCKDOWN BUTTON	WALL/40" ON CENTER AFF	B	4/SE5.02	IDF 914	
LB	LB-104	LOCKDOWN BUTTON	WALL/40" ON CENTER AFF	B	4/SE5.02	IDF 914	
M1	M1-101	MOTION DETECTOR	CEILING	B	5/SE5.01	IDF 914	
M1	M1-102	MOTION DETECTOR	CEILING	B	5/SE5.01	IDF 914	
M1	M1-103	MOTION DETECTOR	CEILING	B	5/SE5.01	IDF 914	
M1	M1-104	MOTION DETECTOR	CEILING	B	5/SE5.01	IDF 914	
M1	M1-105	MOTION DETECTOR	CEILING	B	5/SE5.01	IDF 914	
M1	M1-106	MOTION DETECTOR	CEILING	B	5/SE5.01	IDF 914	
M1	M1-107	MOTION DETECTOR	CEILING	B	5/SE5.01	IDF 914	
M1	M1-108	MOTION DETECTOR	CEILING	B	5/SE5.01	IDF 914	
M2	M2-200	MOTION DETECTOR	WALL	B	3/SE5.02	IDF 914	
M2	M2-201	MOTION DETECTOR	WALL	B	3/SE5.02	IDF 914	
PP	PP-100	PUSH PLATE	WALL	N/A	3/SE5.02	IDF 914	
PP	PP-101	PUSH PLATE	WALL	N/A	3/SE5.02	IDF 914	
PP	PP-102	PUSH PLATE	WALL	N/A	3/SE5.02	IDF 914	
PP	PP-103	PUSH PLATE	WALL	N/A	3/SE5.02	IDF 914	
PP	PP-104	PUSH PLATE	WALL	N/A	3/SE5.02	IDF 914	
PP	PP-105	PUSH PLATE	WALL	N/A	3/SE5.02	IDF 914	
PP	PP-106	PUSH PLATE	WALL	N/A	3/SE5.02	IDF 914	
PP	PP-107	PUSH PLATE	WALL	N/A	3/SE5.02	IDF 914	

GENERAL NOTE

A. SECURITY CONTRACTOR SHALL PROVIDE ADDITIONAL LNL-1300 SERIES READER BOARDS, LNL-1100 INPUT BOARDS, AND LNL-1200 OUTPUT BOARDS AS REQUIRED FOR A COMPLETE WORKING SYSTEM.



1 SECURITY RISER DIAGRAM
NTS

DSA FILE NO. 37-C2 A# 04-119030

PBK

ARCHITECTURE

MCC SAN ELIJO BUILDING 900 MODERNIZATION

3333 Manchester Ave, Cardiff, CA 92007

100% CONSTRUCTION DOCUMENTS

MIRACOSTA COLLEGE

CONSULTANT

Exante360

895 DOVE ST. 3RD. FLOOR
NEWPORT BEACH, CA
92660

ENGINEER

REGISTERED PROFESSIONAL ENGINEER
EDMND K.S. WONG
No.104366
Exp.9-30-2022
ELECTRICAL
STATE OF CALIFORNIA

ARCHITECT

CLIENT
MIRACOSTA COMMUNITY COLLEGE DISTRICT

PROJECT NUMBER
–

DATE: 2020/11/10
DRAWN BY: CK, TT
CHECKED BY: JT, JW

REVISIONS

No.	Description	Date
	100% CONSTRUCTION DOCUMENTS	11/10/2020

100% CONSTRUCTION DOCUMENTS

DEVICE SCHEDULE & SECURITY RISER DIAGRAM

SE6.01

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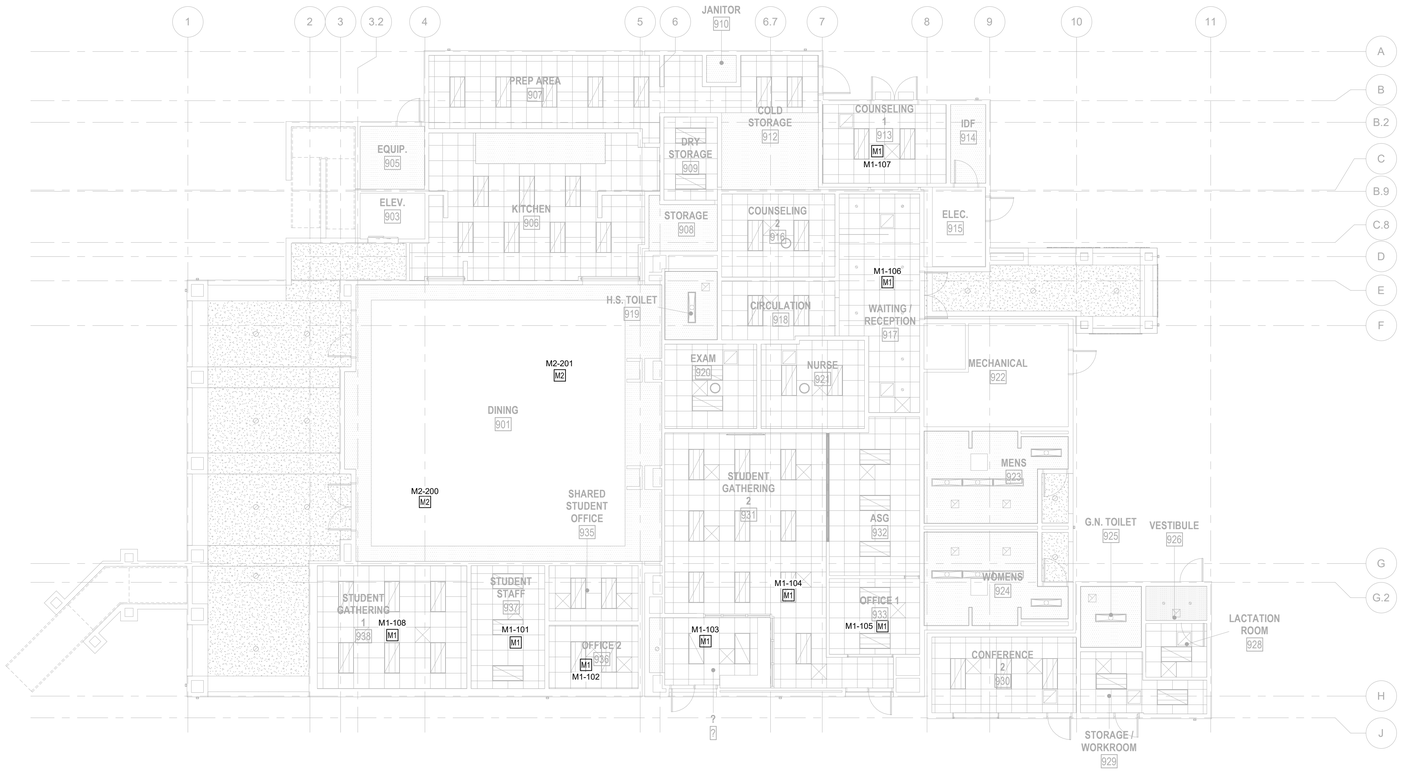

GENERAL NOTES:

A. SECURITY CONTRACTOR SHALL PROVIDE NEW J-HOOK PATHWAY TO SUPPORT NEW CABLING. INSTALL J-HOOKS MAXIMUM 5'-0" O.C. ALONG ENTIRE PATHWAY PER DETAILS 1 & 2/SE5.02.

B. FIRE RATED PENETRATIONS SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR THROUGH ALL FULL HEIGHT WALLS. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE PENETRATION ASSEMBLY TO MATCH THE RATING OF THE WALL BEING PENETRATED.

C. REFER TO DEMOLITION SHEET SE2.01 FOR LOCATIONS TO REUSE EXISTING INFRASTRUCTURE

N

PROJECT NORTH

1 SECURITY REFLECTED CEILING PLAN - FIRST FLOOR
1/8" = 1'-0"

DSA FILE NO. 37-C2 A# 04-119030

PBK

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SECURITY REFLECTED CEILING PLAN - FIRST FLOOR

SE10.01

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