# REEDLEY HIGH SCHOOL

## 24' X 40' MODULAR RESTROOM & STORAGE

## KINGS CANYON UNIFIED SCHOOL DISTRICT

## 740 W NORTH AVE, REEDLEY, CA 93654

1" = 40'-0" 1" = 30'-0" 1" = 20'-0" 1/8" = 1'-0" 1/4" = 1'-0"

## BUILDING DATA

OCCUPANCY = E

TYPE OF CONSTRUCTION = VB (NON-SPRINKLERED)

| | | |
|---|---|---|
| 1 (N) RESTROOM & STORAGE | = | 960 S.F. |
| OVERHANGS | | 0 S.F |
| | TOTAL | 960 S.F. |

PER 2019 C.B.C. TABLE 503:
ALLOWABLE AREA = 9,500 S.F.
960 S.F. < 9,500 S.F. EA BUILDING= OK

ALLOWABLE BUILDING HEIGHT: 40'

ACTUAL BUILDING HEIGHT: 14'3"

## ARCHITECT'S STATEMENT

**ARCHITECT'S STATEMENT FOR PLANS PREPARED BY OTHER LICENSED DESIGN**
**LICENSED DESIGN PROFESSIONALS &/OR CONSULTANTS**

THESE DRAWINGS &/OR SPECIFICATIONS &/OR CALCULATIONS FOR THE ITEMS LISTED IN THE SHEET INDEX & CHECKED BELOW HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED &/OR AUTHORIZED TO PREPARE SUCH DOCUMENTS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR DESIGN INTENT & HAVE BEEN FOUND TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS & THE PROJECT SPECIFICATIONS PREPARED BY ME.

THE ITEMS CHECKED BELOW ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE (OR FOR WHICH I HAVE DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK.)

"THE STATEMENT OF GENERAL CONFORMANCE" SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES & RESPONSIBILITIES UNDER SECTION 17302 & 81138 OF THE EDUCATIONAL CODE & SECTIONS 4-336, 4-431 & 4-344 OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-417(c)) SEE THE SHEET INDEX ON THIS SHEET FOR DRAWINGS OTHER THAN ARCHITECTURAL.

APPLICABLE:

☒ ELECTRICAL ☒ CIVIL ☒ MODULAR BUILDING

SIGNATURE OF THE ARCHITECT/ENGINEER — DATE: 01-20-22

NAME, TITLE, AFFILIATION
CURTIS FLYNN, ARCHITECT, INTEGRATED DESIGNS BY SOMAM, INC.

C-28966 — LICENSED NUMBER — 05-31-2023 EXPIRATION DATE

## SCOPE OF WORK

- NEW 24 X 40 MODULAR RESTROOM & STORAGE BUILDING
- NEW SITEWORK INFRASTRUCTURE FOR MODULAR BUILDING

## GENERAL NOTES

1. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS
2. CHANGES MADE TO THE APPROVED DRAWINGS & SPECS SHALL BE MADE BY ADDENDUM OR C.C.D., APPROVED BY DSA AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, C.C.R.
3. REFER TO RELOCATABLE BUILDING MANUFACTURER'S DRAWINGS FOR ALL INFORMATION REGARDING THE RELOCATABLE BUILDINGS
4. DSA ACCEPTED TESTING LABORATORY TO BE DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL REQUIRED TESTS & INSPECTIONS FOR THE PROJECT
5. THE FOLLOWING DOCUMENTS SHALL BE ON THE JOBSITE PRIOR TO INSTALLATION OF UNITS:
   A. IN-PLANT VERIFIED REPORT
   B. LABORATORY VERIFIED REPORT
   C. WELDING VERIFIED REPORT
   THE SITE INSPECTOR SHALL VERIFY THE ABOVE DOCUMENTS & SERIAL NUMBERS ARE APPLICABLE TO EACH UNIT PRIOR TO INSTALLATION OF THE UNITS.NOTIFY ARCHITECT & DIVISION OF THE STATE ARCHITECT FIELD ENGINEER IF ANY DISCREPANCIES OCCUR
6. IN-PLANT INSPECTOR & MANUFACTURER SHALL FOLLOW THE REQUIREMENTS OF DSA IR16-1.13 & INCLUDE THE FOLLOWING INFORMATION ON ID TAG OF SHOP FABRICATED RELOCATABLE STRUCTURES:
   1. THE DSA APPLICATION NUMBER & CBC EDITION UNDER WHICH THE BUILDING CONSTRUCTION WAS AUTHORIZED
   2. THE MANUFACTURER OR BUILDINGS NAME
   3. THE SERIAL NUMBER
   4. THE DESIGN CLIMATE ZONE
   5. THE DESIGN LIVE LOADS FOR THE ROOF & FLOOR
   6. THE DESIGN WIND SPEED & EXPOSURE CATEGORY
   7. THE SEISMIC DESIGN Ss

## PROJECT DIRECTORY

OWNER:
KINGS CANYON UNIFIED SCHOOL DISTRICT
JOHN CAMPBELL, SUPERINTENDENT
1801 10TH STREET
REEDLEY, CA 93654
TEL: 559-305-7004
EMAIL: campbell-j@kcusd.com

ARCHITECT:
CURTIS FLYNN
INTEGRATED DESIGNS by SOMAM, Inc.
6011 N. FRESNO SUITE #130
FRESNO, CA 93710
TEL: 559-436-0881
EMAIL: cflynn@somam.com

PORTABLE MANUFACTURER:
JTS MODULAR, INC
7001 McDIVITT DRIVE
BAKERSFIELD, CA 93313
TEL: 661-835-9270

ELECTRICAL ENGINEER:
STEVE EASTHAM
ROSE SING EASTHAM & ASSOCIATES
131 S DUNWORTH ST,
VISALIA, CA 93292
TEL : (559) 733-2671
EMAIL :seastham@rse-eng.com

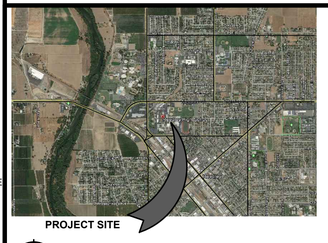
CIVIL ENGINEER:
ALLEN WILLIAMS, PE
AW ENGINEERING
724 N BEN MADDOX WAY STE. A
VISALIA, CA 93292
TEL: 559-967-8089
EMAIL: awengineering09@gmail.com

## INSPECTOR OF RECORD

THIS PROJECT REQUIRES A CLASS 1 RBIP INSPECTOR. THE INSPECTOR OF RECORD SHALL BE DSA APPROVED & CONFORM TO THE CLASSIFICATION CRITERIA AS PROVIDED IN INTERPRETATION OF REGULATIONS (IR) A-7, DATED

JULY 17, 2013
THE INSPECTOR SHALL BE EMPLOYED BY THE DISTRICT & APPROVED BY THE RESPONSIBLE ARCHITECT.

## VICINITY MAP



PROJECT SITE

**RHS RESTROOM & STORAGE**
**740 W NORTH AVE,**
**REEDLEY, CA 93654**

## SEISMIC DESIGN

WIND DESIGN DATA (2019 CBC 1603A.1.4)

| | |
|---|---|
| 1. BASIC WIND SPEED | V= 95 MPH |
| 2. RISK CATEGORY | II |
| 3. WIND EXPOSURE CATEGORY | C |
| 4.INTERNAL PRESSURE COEFFICIENT | +/-0.18 |
| 5. ENCLOSURE CLASSIFICATION | ENCLOSED |

EARTHQUAKE DESIGN DATA (2019 CBC 1603.A.1.5)

SITE COORDINATES: 36°36'19" N, 119° 27'40"

| | |
|---|---|
| 1. RISK CATEGORY | II |
| 2. SEISMIC IMPORTANCE FACTOR | Ie=1.0 |
| 3. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS | |
| Ss= 0.517 g | S1 = 0.21 g |
| 4. SITE CLASS D | |
| 5. DESIGN SPECTRAL RESPONSE ACCELARATION PARAMETERS | |
| SDS = 0.478g MAX | SD1 = null |

GEOTECHNICAL INFORMATION (2019 CBC 160.31.6)

1. ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF

## SYMBOLS

SECTION KEY
A / A3.03 — SECTION IDENTIFICATION, SHEET NUMBER

DETAIL KEY
1 / A2.01 — DETAIL NUMBER, SHEET NUMBER

INTERIOR ELEVATION KEY
A, B, C, D / 1 / A5.01 — ELEVATION DIRECTION, ELEVATION IDENTIFICATION, SHEET NUMBER

ELEVATION DATUM
+1'-0" — INDICATES HEIGHT IN RELATION TO 0'-0"

ROOM NUMBER / FINISH TAG
OFFICE — ROOM NAME
100 — ROOM NUMBER

A — WINDOW SCHEDULE KEY
1 — KEYNOTE SCHEDULE KEY
201 — DOOR SCHEDULE KEY

## APPLICABLE CODES

CONTRACTOR TO COMPLY WITH:
- PART 1, TITLE 24 , 2019 CCR
- CFC CH.33 FIRE SAFETY DURING DEMOLITION & CONSTRUCTION

A COPY OF TITLE 24 SHALL BE ON SITE AT ALL TIMES. CONSTRUCTION SHALL COMPLY WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS, INCLUDING THE FOLLOWING:

- TITLE 24, CCR, PART 2, 2019 CBC (2018 IBC, WITH CALIFORNIA AMENDMENTS).
- TITLE 24, CCR, PART 3, 2019 CEC (2017 NEC, WITH CALIFORNIA AMENDMENTS).
- TITLE 24, CCR, PART 4, 2019 CMC (2018 UMC, WITH CALIFORNIA AMENDMENTS)
- TITLE 24, CCR, PART 5, 2019 CPC (2018 UPC, WITH CALIFORNIA AMENDMENTS).
- TITLE 24, CCR, PART 6, 2019 CEC
- TITLE 24, CCR, PART 9, 2019 CFC (2018 IFC, WITH CALIFORNIA AMENDMENTS).
- TITLE 19, CCR
- NFPA 72, 2016 EDITION (AS PER CA AMENDMENTS

## SHEET INDEX



| SHT. NO. | DESCRIPTION | |
|---|---|---|
| | **GENERAL** | |
| T-1.01 | TITLE SHEET | 1 SHEETS |
| | **CIVIL** | |
| C1 | GRADING AND DRAINAGE PLAN | |
| C2 | UTILITY PLAN | 2 SHEETS |
| | **ARCHITECTURAL** | |
| A1.00 | SITE PLAN | |
| A1.01 | DEMO - ENLARGED SITE PLAN | |
| A1.02 | ENLARGED SITE PLAN | |
| A1.03 | SITE DETAILS | 4 SHEETS |
| | **ELECTRICAL** | |
| EG1.01 | ELECTRICAL SYMBOLS, CODES NOTES AND ONE LINE DIAGRAMS | |
| E1.01 | SITE ELECTRICAL PLAN | |
| E1.02 | ENLARGED SITE ELECTRICAL PLAN | |
| E2.01A | FIRE ALARM AND SIGNAL PLANS | |
| E3.01 | FIRE ALARM SYMBOLS, NOTES, CODES, DETAILS, AND BATT. CALC'S | |
| E3.02 | DETAILS | |
| E3.03 | SIGNAL DETAILS | 7 SHEETS |
| | **MODULAR - SITE SPECIFIC DRAWINGS** | |
| | **BASE ON PC # 02-118526 24' x 40' RELOCATABLE MODULAR - ARCHITECTURAL** | |
| T-1.00-R | TITLE PAGE | |
| A-1.11-R | FLOOR PLAN - RESTROOM STORAGE | |
| A-1.15-R | ENLARGED FLOOR PLAN | |
| A-1.22-R | REFLECTED CEILING PLAN | |
| A-1.32-R | SCHEDULES | |
| A-2.02-R | INTERIOR ELEVATIONS | |
| A-3.01-R | EXTERIOR ELEVATIONS | |
| A-4.00-R | ROOF PLAN | |
| A-6.06 | DETAILS | 9 SHEETS |
| | **MODULAR - STRUCTURAL** | |
| S2.1-R | EMBEDMENT PLAN | 1 SHEETS |
| | **MODULAR - MECHANICAL** | |
| M3.01-R | MECHANICAL FLOOR AND ROOF PLANS | |
| M5.03 | MECHANICAL DETAILS & SCHEDULES | 2 SHEETS |

| SHT. NO. | DESCRIPTION | |
|---|---|---|
| | **MODULAR - ELECTRICAL** | |
| E3.01-R | ELECTRICAL POWER AND LIGHTING PLANS | |
| E3.12 | ELECTRICAL ROOF PLAN | |
| E5.05 | ELECTRICAL DETAILS AND SCHEDULES | 3 SHEETS |
| | **MODULAR - PLUMBING** | |
| P1.02-R | PLUMBING FLOOR PLANS - SOIL, WASTE, AND VENT (BELOW & ABOVE FINISHED FLOOR) | |
| P1.06 | PLUMBING FLOOR PLAN - DCW/DHW & PLUMBING ROOF PLAN | |
| P5.03 | PLUMBING DETAILS AND SCHEDULES | 3 SHEETS |
| | **MODULAR - TITLE 24** | |
| EC1.01-R | ENERGY CALCULATIONS | |
| EC1.02-R | ENERGY CALCULATIONS | 2 SHEETS |
| | **MODULAR - PC # 02-118526 24' x 40' RELOCATABLE** | |
| | **MODULAR - ARCHITECTURAL** | |
| T1.00 | TITLE PAGE | |
| T1.01 | TEST AND INSPECTION GUIDELINES | |
| A-1.07 | FLOOR PLANS : 2M-RR AND 6M-RR (SPLIT SYSTEM) | |
| A-1.15 | ENLARGED FLOOR PLANS | |
| A-1.30C | REFLECTED CEILING PLANS : 2M-RR & 6M-RR | |
| A-1.31 | GENERAL NOTES AND CASEWORK DETAILS | |
| A-1.32 | SCHEDULES | |
| A-2.02 | INTERIOR ELEVATIONS | |
| A-2.20 | ACCESSIBILITY DETAILS | |
| A-3.09 | EXTERIOR ELEVATIONS - PARAPET ROOF | |
| A-4.00 | ROOF PLANS | |
| A-5.04 | BUILDING SECTIONS 1 MOD | |
| A-6.00 | DETAILS | |
| A-6.01 | DETAILS | |
| A-6.02 | DETAILS | |
| A-6.03 | DETAILS | |
| A-6.05 | DETAILS | 17 SHEETS |

| SHT. NO. | DESCRIPTION | |
|---|---|---|
| | **MODULAR - STRUCTURAL** | |
| S1.1 | TYPICAL NOTES | |
| S1.2 | TYPICAL NOTES | |
| S1.3 | TYPICAL NOTES | |
| S1.4 | TYPICAL DETAILS | |
| S1.5 | TYPICAL DETAILS WOOD FRAMING | |
| S1.6 | TYPICAL DETAILS WOOD FRAMED SHEAR WALL | |
| S1.7 | TYPICAL DETAILS ROOF FRAMING | |
| S1.8 | TYPICAL DETAILS | |
| S1.9 | TYPICAL DETAILS | |
| S2.2 | EMBEDMENT PLAN 2 MODULES | |
| S3.2 | FOUNDATION PLAN 2 MODULES | |
| S4.3 | ROOF FRAMING PLAN SINGLE SLOPE PARAPET | |
| S5.5 | FRAME ELEVATION SINGLE SLOPE WITH PARAPET | |
| S5.6 | FRAME ELEVATION SINGLE SLOPE | |
| S5.9 | FRAME DETAILS | |
| S6.1 | FOUNDATION DETAILS WOOD STUD WALLS | |
| S6.3 | FOUNDATION SHIM DETAILS WOOD STUD WALLS | |
| S7.1 | WOOD STUD FRAMING DETAILS | |
| S7.5 | WOOD STUD FRAMING DETAILS | |
| S7.6 | PARAPET FRAMING DETAILS WOOD STUD | 20 SHEETS |
| | **MODULAR - MECHANICAL** | |
| M0.01 | MECHANICAL NOTES | |
| M0.02 | MECHANICAL PLANS 1M- RR & 1M-RR + JAN | |
| M1.01 | MECHANICAL PLAN S: 2MAND 3M (EXTERIOR MTD. HT. PUMP) | |
| M5.01 | MECHANICAL DETAILS | |
| M5.02 | MECHANICAL SCHEDULE & DETAILS | 5 SHEETS |
| | **MODULAR - ELECTRICAL** | |
| E0.01 | ELECTRICAL NOTES | |
| E2.01 | ELECTRICAL PLANS 2M & 3M (SPLIT SYSTEM) | |
| E3.11 | ELECTRICAL PLANS ROOF (SOLAR PANEL SYSTEM) | |
| E5.03 | ELECTRICAL DETAILS | |
| E5.04 | ELECTRICAL LIGHTING SCHEDULE & DETAILS | 5 SHEETS |
| | **MODULAR - PLUMBING** | |
| P0.01 | PLUMBING NOTES | |
| P1.02 | PLUMBING PLANS: 2M-RR & 6M-RR + JAN | |
| P2.06 | PLUMBING PLANS: 2M-RR & 6M-RR + JAN | |
| P5.01 | PLUMBING DETAILS | |
| P5.02 | PLUMBING SCHEDULE | 6 SHEETS |
| WM-1.00 | WASTE MANAGEMENT PLAN | TOTAL SHEETS: 87 |



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119613 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022

Owner:

**KINGS CANYON UNIFIED SCHOOL DISTRICT**
1801 10TH ST,
REEDLEY, CA 93654

Project Name:
**24' X 40' MODULAR RESTROOM & STORAGE**

Project Address:
**REEDLEY HIGH SCHOOL**
740 W NORTH AVE,
REEDLEY, CA 93654


**integrated designs**
by SOMAM, Inc.

**ARCHITECTURE ENGINEERING INTERIOR DESIGN**

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P:(559) 436-0881 F:(559) 436-0887
E: design@somam.com
integrateddesigns.com



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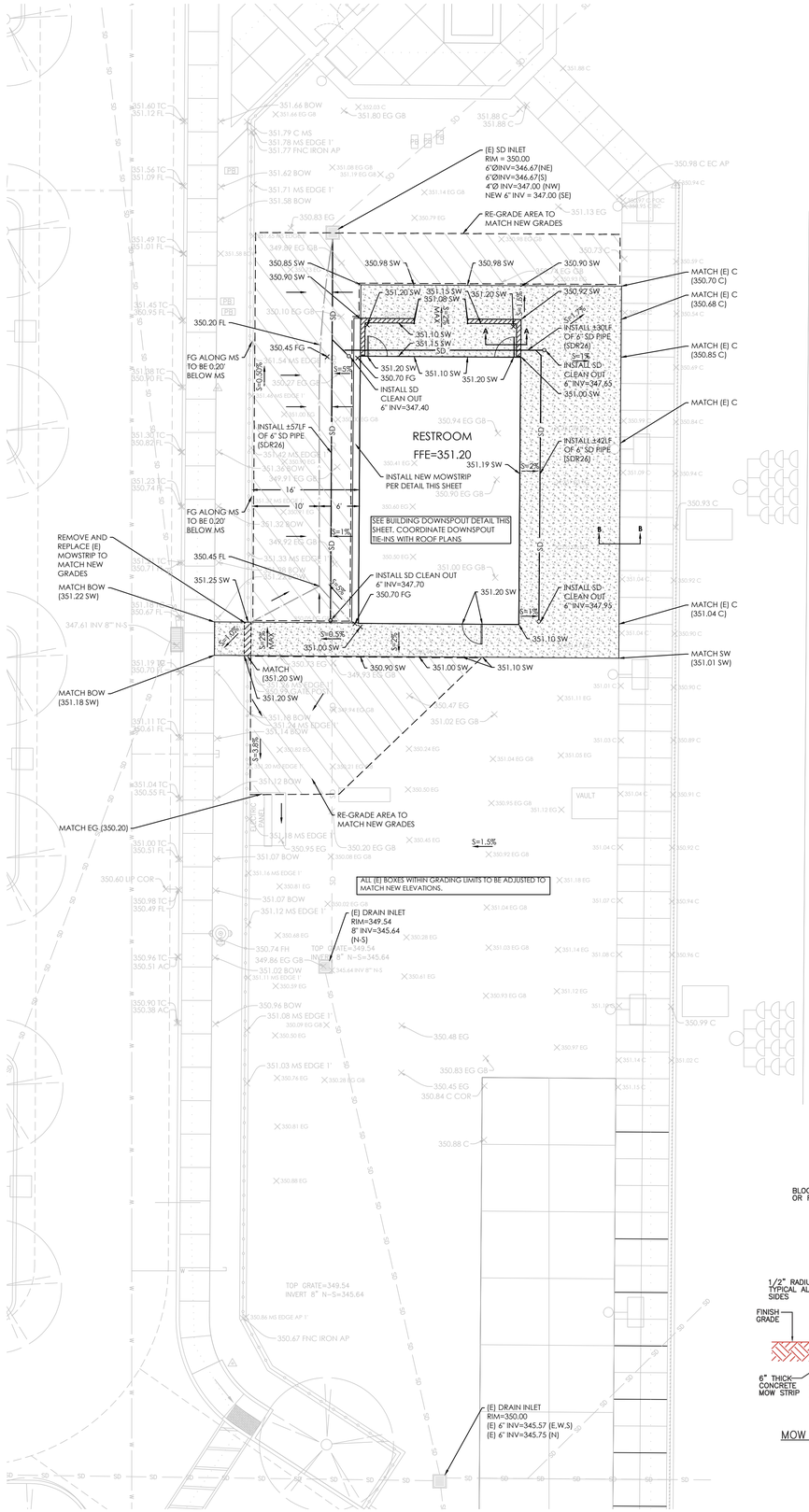
LICENSED ARCHITECT — CURTIS E. FLYNN — No. C 28966 — REN. 5-31-23 — STATE OF CALIFORNIA

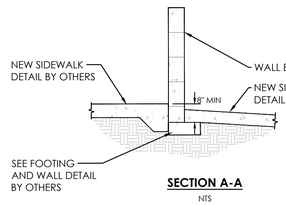
Sheet Title:
**TITLE SHEET**

Job No.:
**5493**

Sheet No.:
**T-1.01**

Release: DSA APPROVAL 01-20-22




**SECTION A-A**

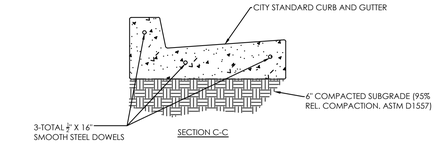
NTS

SURVEY CONTROL DATUM

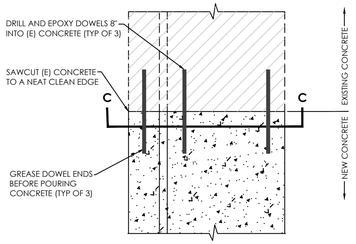
**HORIZONTAL (BASIS OF BEARINGS):**
CALIFORNIA STATE PLANE COORDINATES
ZONE 4 U.S. FOOT.
NGS DESIGNATION REEDLEY, PID DH1269
POINT # 5001 IN THIS SURVEY.

**VERTICAL (BENCH MARK):**
NATIONAL GEODETIC SURVEY DESIGNATION
REEDLEY, PID DH1269, POINT # 5001 IN THIS SURVEY,
SURVEY DISK SET IN TOP OF CONCRETE MONUMENT,
STAMPED REEDLEY 1934
ELEV. = 350.30 NAVD 88 DATUM

REVISION PER DSA COMMENT 1-27-22

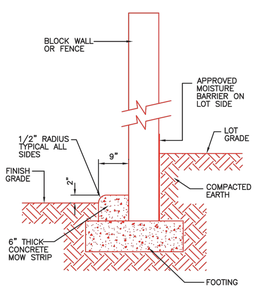



SECTION C-C

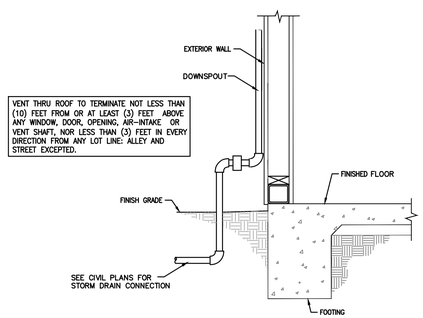



PLAN VIEW AT CURB AND GUTTER

**SECTION B-B**




MOW STRIP AT WALL




**BUILDING DOWNSPOUT DETAIL**

NTS

## LEGEND

| | |
|---|---|
| AC | ASPHALT |
| BLDG | BUILDING |
| BOW | BACK OF WALK |
| C | CONCRETE |
| EG | EXISTING GROUND |
| EP | EDGE OF PAVEMENT |
| FF | FINISH FLOOR |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| FNC | FENCE |
| HB | HEADER BOARD |
| LIP | LIP OF CURB |
| MS | MOW STRIP |
| SDCB | STORM DRAIN CATCH BASIN |
| STRP | STRIPING |
| SW | SIDEWALK |
| TC | TOP OF CURB |
| WV | WATER VALVE |
| | CONRETE |
| | DRAIN |
| | FIRE HYDRANT |
| | IRRIGATION PULL BOX |
| | LIGHT |
| | PATH OF TRAVEL |
| | WATER VALVE |

## GENERAL NOTES

1.) THE CONTRACTOR SHALL ACCEPT THE SITE IN ITS PRESENT CONDITION AND SHALL DEMOLISH AND/OR REMOVE FROM THE AREA OF DESIGNATED PROJECT EARTHWORK ALL STRUCTURES, BOTH SURFACE AND SUBSURFACE TREE, BUSH, ROOTS, DEBRIS, ORGANIC MATTER AND ALL OTHER MATTER DETERMINED BY INSPECTOR TO BE DELETERIOUS. SUCH MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE BY THE OWNER AND SHALL BE REMOVED FROM THE SITE.

2.) TREE ROOT SYSTEMS IN PROPOSED BUILDING AREAS SHOULD BE REMOVED TO A MINIMUM DEPTH OF TWO (2) FEET AND WITHIN A RADIAL DISTANCE WHICH WOULD PERMIT REMOVAL OF ALL ROOTS LARGER THAN (1) INCH. BURNING IN AREAS WHICH ARE TO RECEIVE FULL MATERIAL SHALL NOT BE PERMITTED.

3.) ALL TRENCHES SHALL BE COMPLETELY BACKFILLED PRIOR TO THE END OF THE WORK DAY WHICH THEY ARE CONSTRUCTED. TRENCHES AT ALL CROSSINGS IN TRAFFIC AREAS SHALL HAVE TEMPORARY PAVEMENT INSTALLED PRIOR TO END OF WORK DAY IN WHICH THEY ARE CONSTRUCTED. STEEL PLATES MAY BE SUBSTITUTED FOR TEMPORARY PAVEMENT, IF REQUESTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER FOR PURPOSE OF DEFINING TRENCHES. ALL EXCAVATION FOR INSTALLING PIPES ARE TRENCHES UNLESS THEY MEET THE FOLLOWING:

A. ARE 5 FEET OR LESS IN DEPTH AS MEASURED FROM THE ORIGINAL GROUND SURFACE.
B. HAVE 1 TO 1 SIDE SLOPES.
C. ARE 10 FEET OR WIDER AT THEIR BASE.
D. ARE LOCATED OUTSIDE OF DEVELOPED STREET RIGHTS OF WAY.

4.) COMPACTION REQUIREMENTS (RELATIVE DENSELY PER ASTM D-1557):

A. EXISTING SUBGRADE: 95% IN THE TOP 6" FROM NATIVE OR CUT SURFACE.
B. TRENCHBACKFILL:
   1.) IN PUBLIC RIGHT OF WAY: 95% IN THE TOP 24" FROM SUBGRADE 95% BELOW 24" SUBGRADE.
   2.) IN LANDSCAPE AREA 85% IN THE TOP 12" FROM FINISH GRADE 90% BELOW 12" FROM FINISH GRADE.
   3.) IN BUILDING PADS: 90% FULL DEPTH.
C. BUILDINGS PADS:
   1.) NATIVE 90% IN TOP 6" FROM NATIVE OR CUT SURFACE.
   2.) FILL 90% FULL DEPTH.
D. ROAD RIGHT OF WAY:
   1.) UNDER PAVING 95% IN TOP 6" FROM SUBGRADE AND CONCRETE 95% BELOW 6" SUBGRADE.
   2.) IN PARKWAYS: 85% MIN. FOR 12" FROM FINISH GRADE 90% BELOW 12" FROM FINISH GRADE.
E. AGGREGATE BASE 95% FULL DEPTH

5.) ALL ASPHALT CONCRETE SHALL CONFORM TO CITY OF REEDLEY TECHNICAL SPECIFICATIONS NO. 13 "ASPHALT CONCRETE SURFACING" FOR TYPE "A", ½" MAXIMUM, MEDIUM SIZE AGGREGATE WITH PG 64-10 LIQUID ASPHALT BINDER.

6.) UNLESS OTHERWISE NOTED OR SHOWN, ALL ASPHALT PAVING SHALL BE EDGED WITH 2X6 CONSTRUCTION GRADE REDWOOD HEADER, STAKED AT EACH END OF EACH PIECE AND AT 4 FEET OFF CENTER MIX., AND SET TO FINISHED PAVING GRADE.

7.) CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:

A. ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 1.5% TYP. 2% MAX.
B. ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 4.5% 5% MAX.
C. RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 7.67% TYP. 8.33% MAX.
D. WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH.

8.) ALL WORK SHALL BE IN STRICT CONFORMANCE WITH CALIFORNIA "OSHA" AND LOCAL AUTHORITY REQUIREMENTS.

9.) CONTRACTOR SHALL NOTIFY THE VARIOUS UTILITY COMPANIES AT LEAST 3 DAYS PRIOR TO THE START OF WORK.

10.) THE EXISTING UNDERGROUND UTILITY LINES SHOWN ARE BASED ON THE LOCATION OF VISIBLE SURFACE IMPROVEMENTS AND UTILITY COMPANY RECORD DRAWINGS. IN SOME CASES IT HAS NOT BEEN POSSIBLE TO OBTAIN PERTINENT INFORMATION FROM THE UTILITY COMPANIES ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ACCURATELY SHOW THE UNDERGROUND UTILITY LINES, IT WILL BE NECESSARY TO CONFIRM THE LOCATIONS BY NOTIFYING UNDERGROUND SERVICE ALERT TELEPHONE U.S.A AT 1-800-642-2444 PRIOR TO DIGGING. THE DEPTHS OF ALL LINES MUST BE DETERMINED BY CAREFULLY PROBING OR POT HOLING UNDER UTILITY COMPANY SUPERVISION.

11.) CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF EXISTING PIPELINES OR UTILITIES BEING CROSSED PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS.

12.) ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE DISTRICT AND THE LOCAL AGENCY ENGINEER, AND THE CONTRACTORS SOLE EXPENSE.

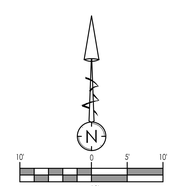
13.) ALL EARTHWORK TO COMPLY WITH GEOTECHNICAL RECOMMENDATIONS PER TECHNICIAN REPORT DATED NOV. 25, 2014.

14.) ALL DETAILS TO CONFORM TO CITY OF REEDLEY MOST CURRENT DETAILS.

## SURVEY NOTE

SURVEY PREPARED BY OTHERS AND USED BY AW ENGINEERING AS THE BASIS OF THIS DESIGN.

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




IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119613 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022

Owner:

**KINGS CANYON UNIFIED SCHOOL DISTRICT**
1801 10TH ST.
REEDLEY, CA 93654

Project Name:

**MODULAR RESTROOM & STORAGE BUILDING**

Project Address:

**REEDLEY HIGH SCHOOL**
740 W. NORTH AVE,
REEDLEY, CA 93654


**integrated designs**
by SOMAM, Inc.

**ARCHITECTURE ENGINEERING INTERIOR DESIGN**

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P:(559) 436-0881 F:(559) 436-0887
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Stamp:

REGISTERED PROFESSIONAL ENGINEER
JOHN W. GILLEY III
No. 66742
Exp. 6/30/23
STATE OF CALIFORNIA
CIVIL

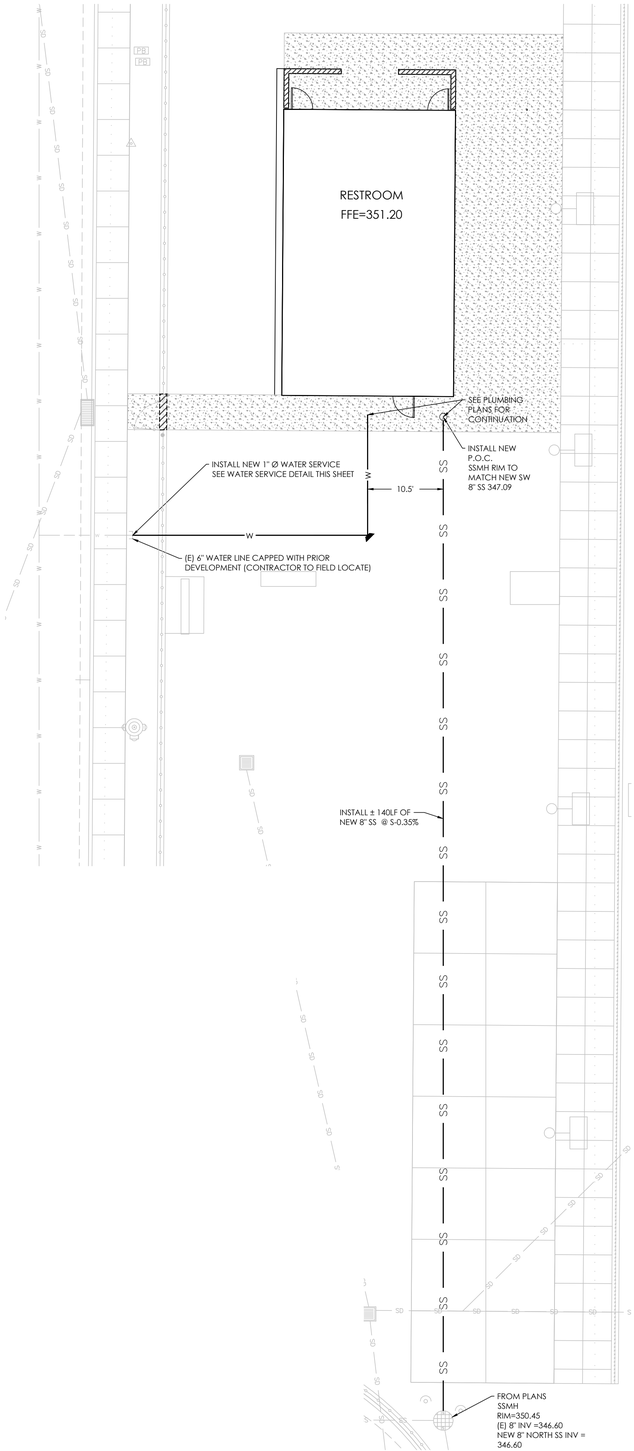
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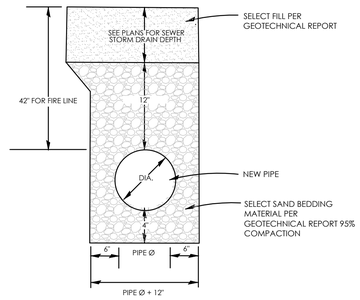
GRADING AND DRAINAGE PLAN

Job No.: **5493**

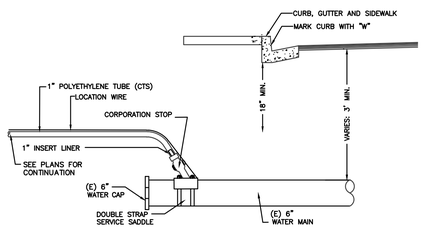
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Release:

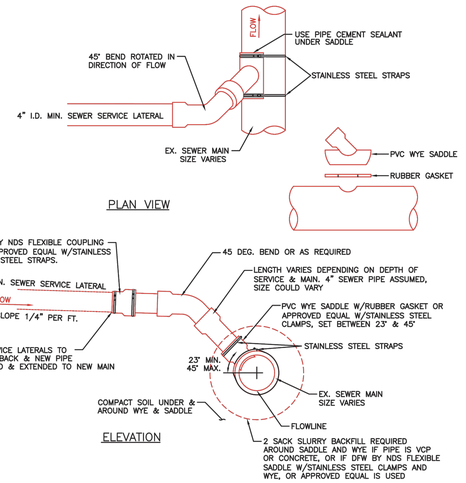



PIPE BEDDING DETAIL
NTS




WATER SERVICE
NTS




4" SEWER SERVICE
NTS

LEGEND

- CONRETE
- DRAIN
- FIRE HYDRANT
- IRRIGATION PULL BOX
- LIGHT
- WATER VALVE
- (E) STORM DRAIN LINE
- (E) ELECTRIC LINE
- (E) WATER LINE
- STORM DRAIN LINE
- WATER LINE

Know what's below. Call before you dig.

N
10' 0 5' 10'
1" = 10'

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REGISTERED PROFESSIONAL ENGINEER
TYLER L. PITT
No. 84756
Exp. 6/30/23
STATE OF CALIFORNIA

Sheet Title:

UTILITY PLAN

Job No.: **5493**

Sheet No.: **C2**

Release:

## (E) PARKING LOT #1 DSA #02-113260

| | |
|---|---|
| TOTAL STALLS PROVIDED: | 150 |
| ACCESSIBLE STALLS REQUIRED PER CBC TABLE 11B-208.2: | 5 |
| VAN SPACES REQUIRED (1 PER 8 ADA): | 1 |
| ACCESSIBLE STALLS PROVIDED: | 5 (2 VAN) |

## (E) PARKING LOT #2 DSA #02-117709

| | |
|---|---|
| TOTAL STALLS PROVIDED: | 148 |
| ACCESSIBLE STALLS REQUIRED PER CBC TABLE 11B-208.2: | 5 |
| VAN SPACES REQUIRED (1 PER 8 ADA): | 1 |
| ACCESSIBLE STALLS PROVIDED: | 7 (2 VAN) |

## (E) PARKING LOT #3 DSA #02-112969

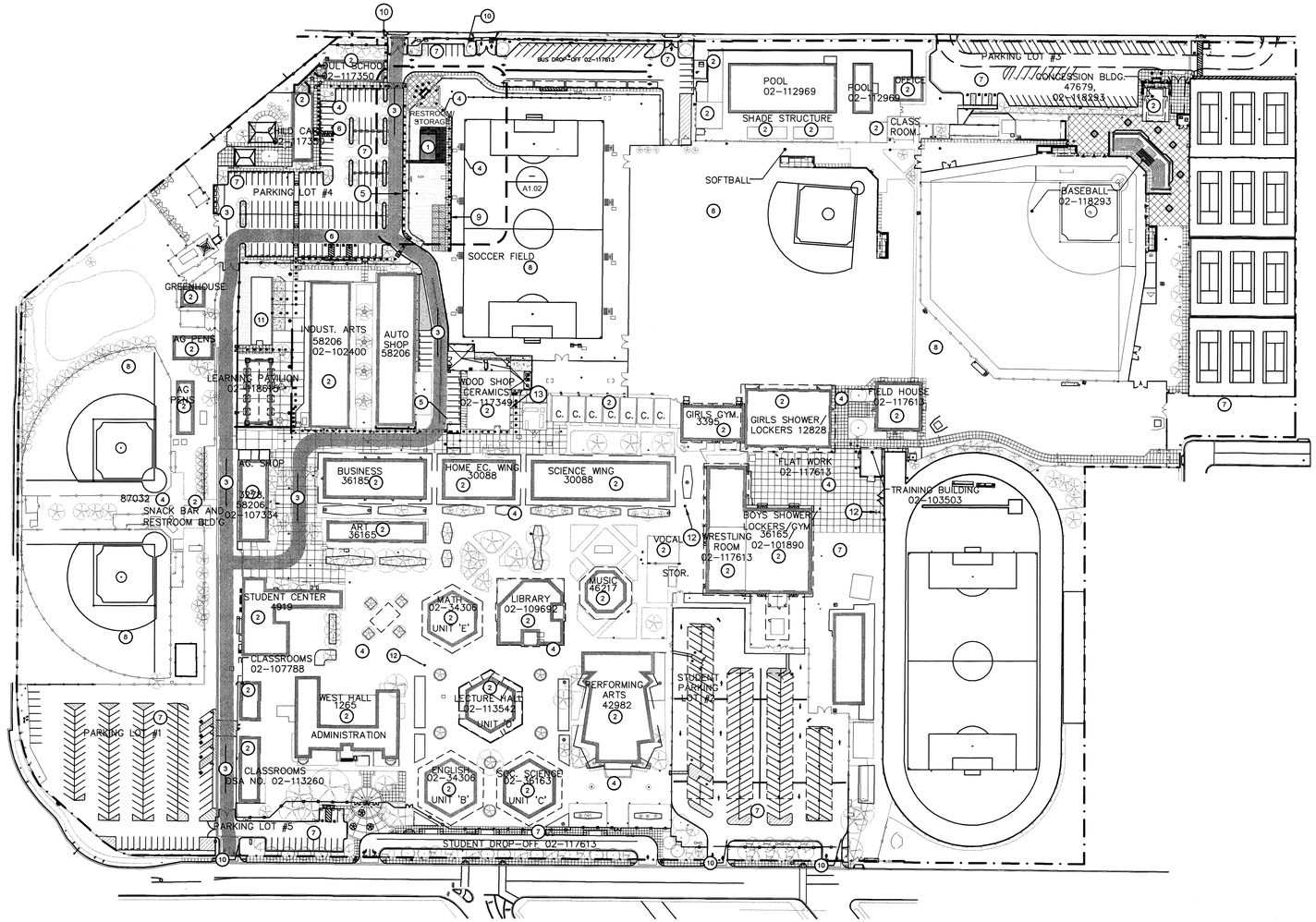
| | |
|---|---|
| TOTAL STALLS PROVIDED: | 49 |
| ACCESSIBLE STALLS REQUIRED PER CBC TABLE 11B-208.2: | 3 |
| VAN SPACES REQUIRED (1 PER 8 ADA): | 1 |
| ACCESSIBLE STALLS PROVIDED: | 4 (1 VAN) |

## (E) PARKING LOT #4 DSA #02-117350

| | |
|---|---|
| TOTAL STALLS PROVIDED: | 140 |
| ACCESSIBLE STALLS REQUIRED PER CBC TABLE 11B-208.2 - TYP.: | 5 |
| VAN SPACES REQUIRED (1 PER 8 ADA): | 1 |
| ACCESSIBLE STALLS PROVIDED: | 6 (3 VAN) |

## (E) PARKING LOT #5 DSA #02-117613

| | |
|---|---|
| TOTAL STALLS PROVIDED: | 16 |
| ACCESSIBLE STALLS REQUIRED PER CBC TABLE 11B-208.2 - TYP.: | 1 |
| VAN SPACES REQUIRED (1 PER 8 ADA): | 1 |
| ACCESSIBLE STALLS PROVIDED: | 2 (1 VAN) |




# SITE PLAN

## RHS RESTROOM & STORAGE

SCALE: 1" = 100'

# FIRE AUTHORITY

**DSA** **810**

## FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

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

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

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

| PROJECT INFORMATION | |
|---|---|
| School District/Owner: | KINGS CANYON UNIFIED SCHOOL DISTRICT |
| Project Name/School: | REEDLEY HIGH SCHOOL - NEW MODULAR RESTROOM & STORAGE |
| Project Address: | 740 W NORTH AVE. |

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



DSA 810

**FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL**

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

**School District Acceptance of Acceptable Design Alternates**

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

Accepted by: _____ Title: _____

Signature: _____ Date: _____

| LOCAL FIRE AUTHORITY (LFA) INFORMATION | | | |
|---|---|---|---|
| LFA Agency Name: | Reedley Fire Dept | | |
| LFA Review Official: | Justin Watson | | |
| Title: | Battalion Chief | Work Phone: | 559-637-4230 |
| Work Email: | justin.watson@reedley.ca.gov | | |
| LFA Reviewer's Signature: | | Date: | 2-11-22 |



# HYDRANT TEST

MS FIRE PROTECTION

JOB#: 5692

PO Box 2339 | Fresno, CA 93745 | P: (559) 485-4400 | F: (559) 485-4402 | State Contractors License No. 986234

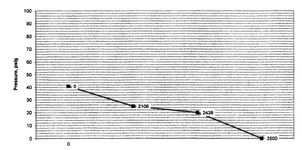
**WATER FLOW TEST REPORT**

HYDRANT # & LOCATION: Reedley H.S. / 740 W. North Ave. Reedley CA. 93654 DATE: 12/16/2021
TEST BY: Wyatt K. & Joey V. Day in Week: Thursday TIME OF DAY: 2:30 pm MIN. OF FLOW: 5
WATER SUPPLIED BY: City of Reedley Public Works
PURPOSE OF TEST: Flow Verification

DATA

| FLOW HYDRANT(S) | A | B |
|---|---|---|
| SIZE OPENING: | 4.5 | PSI Readings |
| COEFFICIENT: | 0.9 | Below |
| PITOT READING: | 15 | |
| GPM: | 2106 | 5 |

TOTAL FLOW DURING TEST: 2106 GPM
STATIC READING: 41 PSI RESIDUAL: 25 PSI
RESULTS: AT 20 PSI RESIDUAL 2439 GPM AT 0 PSI 3500 GPM
ESTIMATED CONSUMPTION 10828 GAL.
HYDRANT: Clow Valve 960 - Yr. 2019 / 2 - 2 1/2 x 1 - 4 1/2




# KEY NOTES

1. NEW MODULAR RESTROOM/STORAGE BUILDING UNDER THIS APPLICATION
2. EXISTING BUILDINGS TO REMAIN. NO WORK UNDER THIS APPLICATION. SEE DSA APP # PROVIDED FOR PAST APPROVAL INFORMATION.
3. EXISTING 20' WIDE FIRE TRUCK ACCESS LANE
4. EXISTING ACCESSIBLE PATH OF TRAVEL, SEE NOTES BELOW.
5. EXISTING FIRE HYDRANT -CLOSEST TO NEW MODULAR BUILDING, SEE HYDRANT TEST OF THIS OUTLET BELOW.
6. EXISTING ACCESSIBLE PARKING UNDER DSA APPLICATION #02-117350
7. EXISTING PARKING LOT
8. EXISTING LANDSCAPE/TURF AREAS
9. EXISTING SIDEWALK APPROVED UNDER DSA APP #02-117613
10. EXISTING TOW AWAY SIGNS PER CBC 11B502.8
11. FUTURE BUILDING UNDER SEPARATE APPLICATION
12. EXISTING FIRE HYDRANT
13. (E) ACCESSIBLE DRINKING FOUNTAIN APPROVED UNDER DSA APPLICATION #02-117349

# ACCESSIBLE PATH

THE PATH OF TRAVEL (P.O.T.) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS & STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED & ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED & 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS & 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 REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

ARCHITECT HAS INSPECTED THE PATH OF TRAVEL (P.O.T.) AS INDICATED ON THE PLANS & HAS FOUND IT TO BE, OR HAS INDICATED ON THE PLANS REMEDIAL WORK WHICH WOULD CAUSE IT TO BE, A BARRIER-FREE ACCESSIBLE ROUTE:

- AT LEAST 48" IN WIDTH; OR AS APPROVED BY CODE
- FREE OF ABRUPT LEVEL CHANGES EXCEEDING ¼" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING ½"
- WITH A FIRM, STABLE, & SLIP RESISTANT WALKING SURFACE
- WITH A RUNNING SLOPE OF 1:20 (5%) OR LESS & WITH A CROSS SLOPE OF 1:50 (2%) OR LESS OR A RAMP WITH A RUNNING SLOPE OF 1:12 (8.33%) & A CROSS SLOPE OF 1:50 (2%) WITH APPROPRIATE REQUIREMENTS AS DETAILED WITHIN THIS SET OF DOCUMENTS.
- IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE
- IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" & 80" ABOVE THE WALKING SURFACE

# FLOOD ZONE

| | |
|---|---|
| FLOOD ZONE DETERMINATION | = ZONE X (.2%) |
| F.I.R.M. PANEL DESIGNATION | = 06019C2680H |
| EFFECTIVE F.I.R.M. DATE | = 2.18.2009 |
| BASE FLOOD ELEVATION (BFE) | = - 400FT. |
| COMMUNITY ORDINANCE | = BMC 15.74.040 |

# LEGEND

- INDICATES NEW MODULAR BUILDING UNDER THIS APPLICATION
- DSA # — EXISTING BUILDING - NO WORK UNDER THIS APPLICATION
- NEW CONCRETE WALKS
- NEW LANDSCAPING
- EXISTING 20' WIDE FIRE TRUCK ACCESS OVER AC PAVING & CONCRETE.
- ACCESSIBLE PATH OF TRAVEL
- INDICATES AREA OF WORK.
- INDICATES REAL OR ASSUMED PROPERTY LINE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119613 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022

Owner:

KINGS CANYON UNIFIED SCHOOL DISTRICT

1801 10TH ST,
REEDLEY, CA 93654

Project Name:

**24' X 40' MODULAR RESTROOM & STORAGE**

Project Address:

**REEDLEY HIGH SCHOOL**

740 W NORTH AVE,
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LICENSED ARCHITECT CURTIS E. ELVIN No. C 28865 REN. 5-31-23 STATE OF CALIFORNIA

Sheet Title:

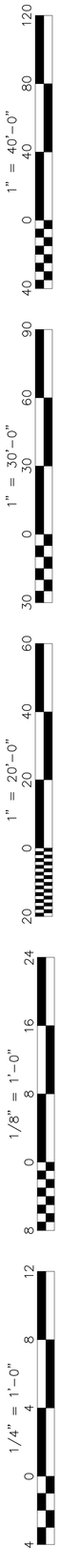
**SITE PLAN**

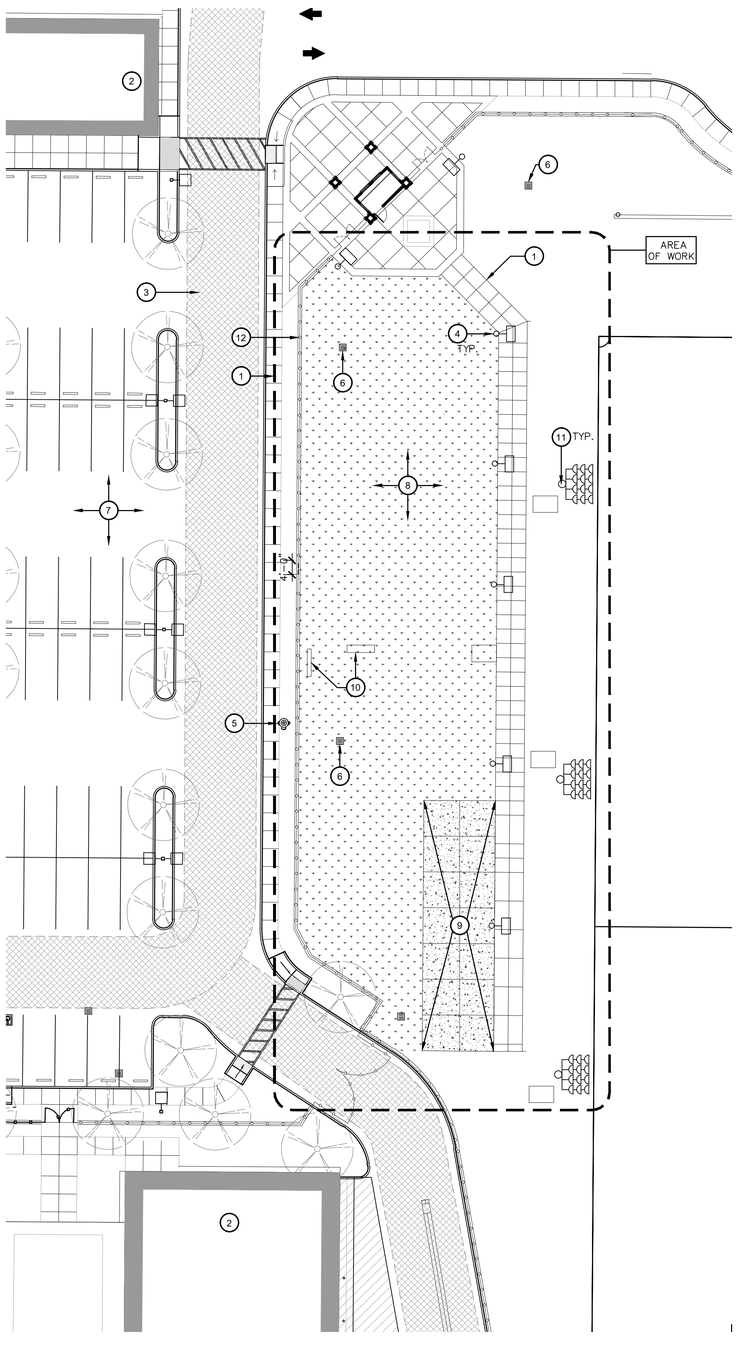
Job No.: **5493**

Sheet No.: **A1.00**

Release: DSA APPROVAL 01-20-22

G:\2021frs\21-5493 RHS RESTROOM & STORAGE\Sheets SHEENU JOHN 2/8/22




## DEMO- ENLARGED SITE PLAN

**RHS RESTROOM & STORAGE**

SCALE: 1" = 20'

# KEY NOTES

1. EXISTING CONCRETE SIDEWALK TO REMAIN
2. EXISTING BUILDINGS TO REMAIN. NO WORK UNDER THIS APPLICATION. SEE DSA APP # PROVIDED FOR PAST APPROVAL INFORMATION.
3. EXISTING 20' WIDE FIRE TRUCK ACCESS LANE
4. EXISTING LIGHT POLE TO REMAIN
5. EXISTING FIRE HYDRANT
6. EXISTING DRAIN INLET TO REMAIN
7. EXISTING PARKING LOT
8. REMOVE (E) TURF AND RE-WORK EXISTING IRRIGATION
9. (E) CONCRETE SLAB
10. EXISTING ELECTRICAL TO REMAIN
11. EXISTING FIELD LIGHTS TO REMAIN
12. EXISTING DECORATIVE FENCING TO REMAIN
13. REMOVE PORTION OF EXISTING DECORATIVE FENCING FOR NEW GATE

# LEGEND

- EXISTING BUILDING - NO WORK UNDER THIS APPLICATION
- EXISTING CONCRETE TO BE REMOVED
- EXISTING TURF TO BE REMOVED. ADJUST IRRIGATION
- EXISTING 20' WIDE FIRE TRUCK ACCESS OVER AC PAVING & CONCRETE.
- ACCESSIBLE PATH OF TRAVEL
- INDICATES AREA OF WORK.

IDENTIFICATION STAMP
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REEDLEY, CA 93654

Project Name:

**24' X 40' MODULAR RESTROOM & STORAGE**

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LICENSED ARCHITECT
CURTIS E. LYNN
No. C-28956
REN. 8-31-23
STATE OF CALIFORNIA

Sheet Title:

**DEMO- ENLARGED SITE PLAN**

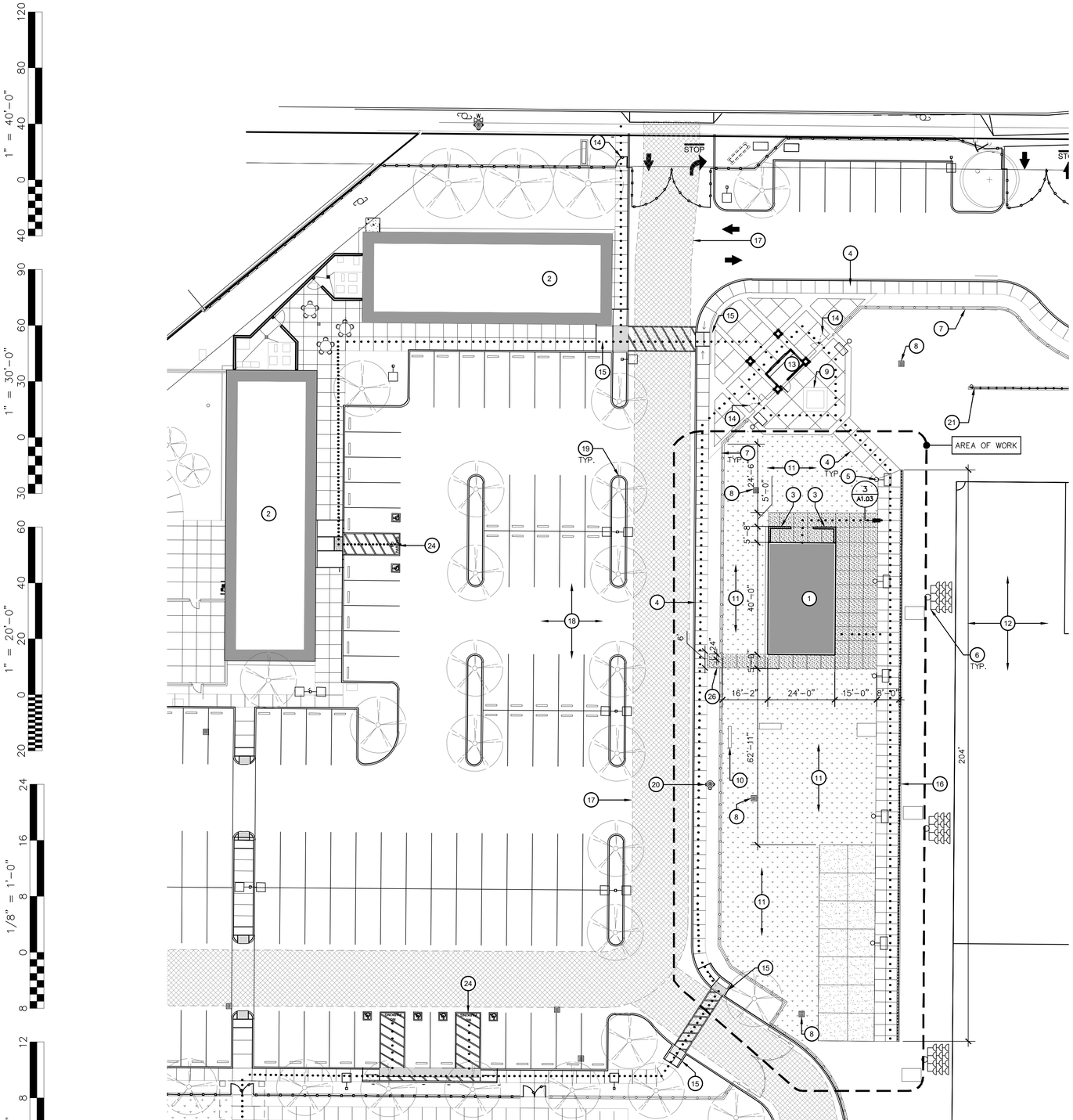
Job No.:

**5493**

Sheet No.:

**A1.01**

Release: DSA APPROVAL 01-20-22




## ENLARGED SITE PLAN

### RHS RESTROOM & STORAGE

SCALE: 1" = 20'

# GENERAL NOTES

A. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS PRIOR TO BID. IF ANY DISCREPANCIES ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED IN WRITING.
B. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF LAYOUTS AND ESTABLISHED LOCATIONS OF BURIED UTILITY LINES. ANY UTILITIES REQUIRING RELOCATION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR CONTACT APPLICABLE GOVERNING AGENCIES REGARDING ARRANGEMENT AND COORDINATION OF WORK.
C. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ANY COMPACTION RETEST DUE TO INITIAL FAILURE.
D. PROJECT INSPECTOR SHALL BE EMPLOYED BY THE OWNER, APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA.
E. A COPY OF TITLE-24, ALL PARTS APPLICABLE, TO BE KEPT AT THE JOB SITE AT ALL TIMES.
F. ADDENDA SHALL BE SIGNED BY THE ARCHITECT (RESPONSIBLE IN CHARGE) AND APPROVED BY DSA.
G. C.C.D.s SHALL BE SIGNED BY THE ARCHITECT (RESPONSIBLE IN CHARGE), OWNER AND APPROVED BY DSA.
H. TESTING LAB SHALL BE EMPLOYED BY THE OWNER, APPROVED BY THE RESPONSIBLE ARCHITECT AND DSA.
I. ALL WORK SURFACES DISTURBED OR DAMAGED BY THE CONSTRUCTION ACTIVITIES SHALL BE REPAIRED IN KIND, TEXTURED AND FINISHED TO MATCH ADJACENT SURFACES.
J. NEW CONCRETE WALKS SHALL HAVE SLOPES NOT TO EXCEED 1 IN 20 IN THE DIRECTION OF PATH OF TRAVEL. PROVIDE CONTROL JOINTS ("C.J.")AT 5'-0" o.c. MAX. AND EXPANSION JOINTS NOT TO EXCEED 30'-0" MAX. PROVIDE MEDIUM BROOM FINISH ON ALL WALKS.
K. ALL BUILDING AND ROOM NAMES INDICATED ON THESE CONSTRUCTION DOCUMENTS ARE "NOT" THE ACTUAL BUILDING/ ROOM SIGNAGE DESIGNATION. THE GENERAL CONTRACTOR SHALL FURNISH, INSTALL AND COORDINATE ALL REQUIRED SIGNAGE WITH THE OWNER/ARCHITECT PRIOR TO STARTING CONSTRUCTION.
L. GENERAL CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE RELOCATABLE BUILDING DELIVERY DATES TO THE SCHOOL SITE WITH THE MFGR.
M. THE GENERAL CONTRACTOR SHALL CONSTRUCT ALL NEW RELOCATABLE BUILDING FOUNDATIONS AS PER THE RELOCATABLE BUILDING MANUFATCTURER'S DRAWINGS AND SPECIFICATIONS.
N. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL HOOK-UPS TO THE RELOCATABLE BUILDINGS AFTER INSTALLATION HAS BEEN COMPLETED BY THE MANUFACTURER.
O. 5'-0" DEEP x 5'-0" WIDE MINIMUM LANDINGS AT DOORWAYS SHALL BE AS DETAILED AND SHALL HAVE SLOPES (IN ANY DIRECTION) OF NOT GREATER THAN 1/4 IN 12 SLOPE. SLOPES SHALL BE AWAY FROM DOORWAYS.
P. GENERAL/SITE CONTRACTOR SHALL FIELD VERIFY THAT EXISTING PATH OF TRAVEL (P.O.T.) IS A MINAMUM OF 4'-0" WIDE AND IS SLIP RESISTANT. IF IT IS NOT, THEN THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF RECORD AND A REMEDY OR ALTERNATE P.O.T. WILL BE PROVIDED.
Q. THE MAXIMUM DROP BETWEEN EXISTING FINISHED GRADES AND THE TOP OF THE P.O.T. SHOULD NOT EXCEED 4". IF IT DOES, PROVIDE THE NECESSARY WARNING CURB PER CBC SEC. 11B-303.5.
R. DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION:

IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A C.C.D. 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.

*PER DSA IR 16-1, SEC. 5.4

S. CONTRACTOR SHALL ADJUST ALL DOOR CLOSERS TO A MAXIMUM OPENING FORCE OF 5 LBF

# KEY NOTES

1. NEW MODULAR BUILDING. SEE MANUFACTURER'S DRAWINGS
2. EXISTING BUILDINGS. NO WORK UNDER THIS APPLICATION
3. NEW CONCRETE BLOCK WALL. SEE DETAIL 6/A1.03
4. EXISTING SIDEWALK TO REMAIN.
5. EXISTING SITE LIGHTING TO REMAIN.
6. EXISTING FIELD LIGHT AND PULL BOX TO REMAIN.
7. EXISTING DECORATIVE METAL FENCING TO REMAIN.
8. EXISTING D.I. TO REMAIN
9. EXISTING PLANTER TO REMAIN.
10. EXISTING ELECTRICAL PANELS TO REMAIN SEE ELECTRICAL PLANS
11. ADJUST IRRIGATION & PROVIDE NEW TURF
12. EXISTING TURF TO REMAIN
13. EXISTING TICKET BOOTH TO REMAIN
14. EXISTING ACCESSIBLE DECORATIVE METAL GATES W/ PANIC HARDWARE. APPROVED UNDER DSA # 02-117613
15. EXISTING ACCESSIBLE RAMP APPROVED UNDER DSA # 02-117613.
16. NEW 4 FT HIGH CHAINLINK FENCE - SEE DETAIL 1/A1.03
17. EXISTING FIRE TRUCK ACCESS LANE.
18. EXISTING AC PAVING & PARKING APPROVED UNDER DSA # 02-117613
19. EXISTING LANDSCAPED ISLAND TO REMAIN.
20. EXISTING FIRE HYDRANT
21. EXISTING FIELD NETTING & POLES.
22. NOT USED
23. NOT USED
24. EXISTING ADA PARKING PER DSA # 02-117613
25. NEW CONCRETE SIDEWALK PER DETAIL 2/A1.03
26. NEW 3FT WIDE DECORATIVE GATE , MODIFY EXISTING GATE AS NECESSARY PER DETAIL 10/A1.03

# LEGEND

- INDICATES NEW MODULAR BUILDING UNDER THIS APPLICATION
- EXISTING BUILDING - NO WORK UNDER THIS APPLICATION
- NEW CONCRETE WALKS PER DETAIL 2/A1.03
- MODIFY EXISTING IRRIGATION FOR NEW WORK . PROVIDE NEW TURF
- EXISTING 20' WIDE FIRE TRUCK ACCESS
- EXISTING CONCRETE SLAB
- ACCESSIBLE PATH OF TRAVEL
- INDICATES AREA OF WORK.
- EXISTING FENCING
- NEW 6FT HEIGHT 8" CMU WALL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119613 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022

Owner:

**KINGS CANYON UNIFIED SCHOOL DISTRICT**
1801 10TH ST,
REEDLEY, CA 93654

Project Name:

**24' X 40' MODULAR RESTROOM & STORAGE**

Project Address:

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740 W NORTH AVE,
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**integrated designs**
by SOMAM, Inc.

**ARCHITECTURE
ENGINEERING
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No. C 28956
REN. 5-31-23
STATE OF CALIFORNIA

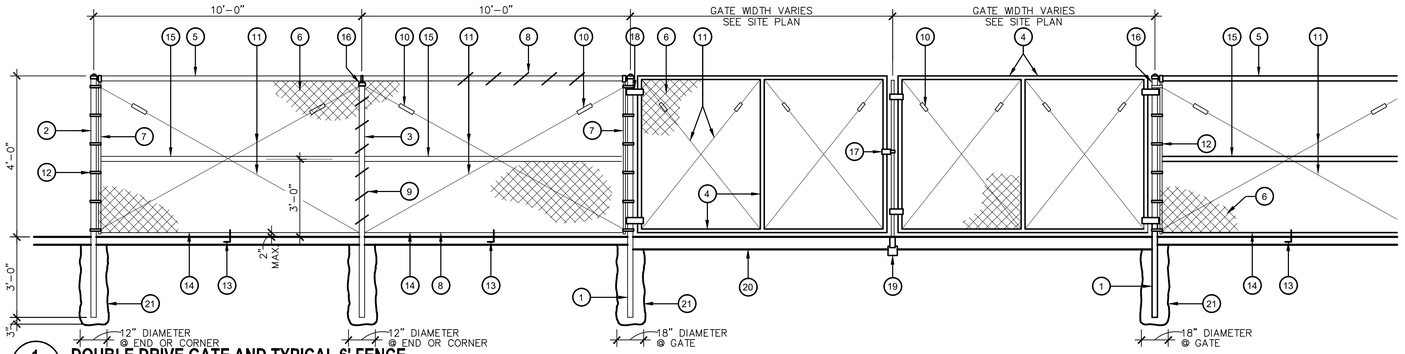
Sheet Title:

**ENLARGED SITE PLAN**

Job No.: **5493**

Sheet No.: **A1.02**

Release: DSA APPROVAL 01-20-22




## 1 A1.03 DOUBLE DRIVE GATE AND TYPICAL 6' FENCE

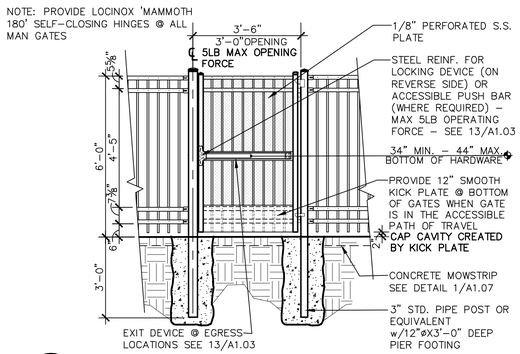
ADY100-05 SCALE: N.T.S.

NOTES:
1. CONTRACTOR TO PROVIDE AND INSTALL GATE HOLD BACK FOR EACH DRIVE GATE. HOLD BACK TO BE INSTALLED IN FENCE MOWSTRIP, UNLESS OTHERWISE SHOWN.

## FENCE ITEMS TO BE FURNISHED & INSTALLED

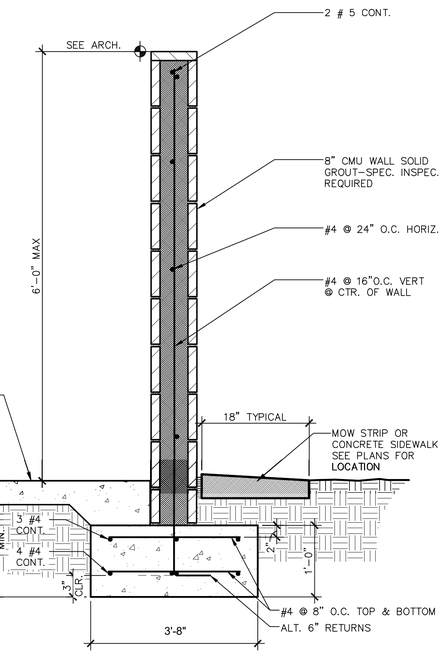
1. 4" O.D. GALVANIZED STEEL GATE POST (9.1 lb/ft)
2. 2 7/8" O.D. GALVANIZED STEEL END, ANGLE OR CORNER POST (5.79 lb/ft)
3. 2 3/4" O.D. GALVANIZED STEEL LINE POST (3.65 lb/ft)
4. 2" O.D. GALVANIZED STEEL GATE FRAME (2.72 lb/ft)
5. 1 5/8" O.D. GALVANIZED STEEL HORIZONTAL RAIL (2.27 lb/ft)
6. 2"x2" MESH x 9 GAUGE GALVANIZED FENCE FABRIC WITH KNUCKLED TOP AND BOTTOM SELVAGE. FENCE FABRIC TO BE GALVANIZED BEFORE WEAVING (GBW)
7. 1/4"x3/4" GALVANIZED STEEL STRETCHER BAR
8. 9 GAUGE (0.148" DIA.) GALVANIZED STEEL TIE WIRES OR HOG RINGS AT 15" MAX. SPACING. MIN. 8 TIE WIRES PER EACH 10' HORIZONTAL RAIL
9. 6 GAUGE (0.192" DIA.) GALVANIZED STEEL POST CLIPS AT 14" MAX. SPACING . MIN. OF 10 POST CLIPS FOR 12' POSTS; MIN. 5 POST CLIPS FOR 6'
10. GALVANIZED ADJUSTABLE TURNBUCKLE FOR 3/8" DIA. TRUSS ROD
11. 3/8" DIA. GALVANIZED STEEL ADJUSTABLE TRUSS ROD. TRUSS RODS REQUIRED FOR ALL GATE POST PANELS AND END OR CORNER POST PANELS
12. GALVANIZED STEEL STRETCHER BAR TENSION BAND AT 12" MAX. SPACING. MIN. OF 12 TENSION BANDS FOR 12'-0" POST; MIN. OF 6 TENSION BANDS FOR 6'-0" POSTS
13. 3/8"x6" GALVANIZED HOOK BOLT WITH NUT IMBEDDED IN MOWSTRIP MIDWAY BETWEEN POSTS
14. 7 GAUGE (0.177" DIA.) GALVANIZED STEEL TENSION WIRE
15. 1 5/8" O.D. GALVANIZED STEEL HORIZONTAL RAIL
16. RAINPROOF CAP
17. LOCKING LATCH
18. 180° HINGE (TYP. FOR 4)
19. CENTER GATE SLIDE SLEEVE
20. 5-1/2" THICK CONCRETE MOWSTRIP AT GATE OPENING
21. CLASS B CONCRETE POST FOOTING (TYP.)
22. NOT USED
23. TRIM, VON, DUPRIN 'RHODES' HANDLE & RIM CYLINDER LOCK PER DISTRICT STANDARD

NOTE: PROVIDE LOCINOX 'MAMMOTH 180° SELF-CLOSING HINGES @ ALL MAN GATES



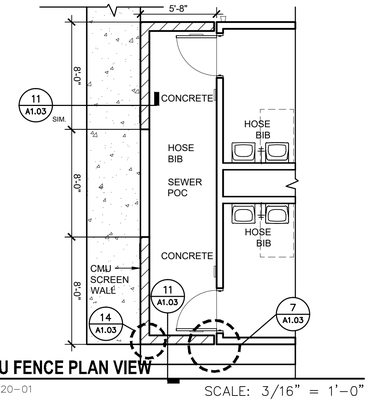

## 10 A1.03 3' WIDE DECORATIVE METAL GATE

ADS100-51 SCALE: 3/8" = 1'-0"



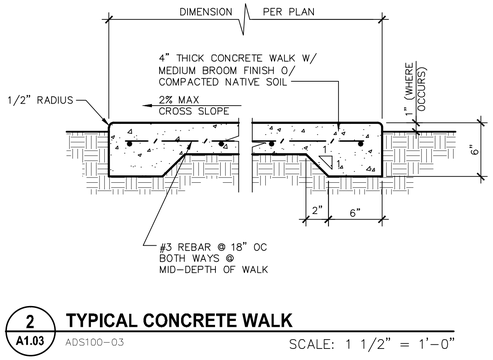

## 11 A1.03 WALL SECTION

ADW220-02 SCALE: 1" = 1'-0"



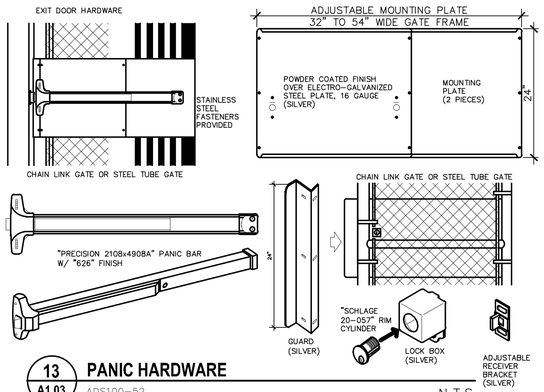

## 6 A1.03 CMU FENCE PLAN VIEW

ADW120-01 SCALE: 3/16" = 1'-0"



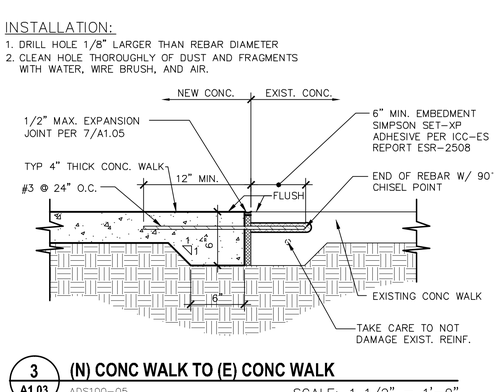

## 2 A1.03 TYPICAL CONCRETE WALK

ADS100-03 SCALE: 1 1/2" = 1'-0"




## 13 A1.03 PANIC HARDWARE

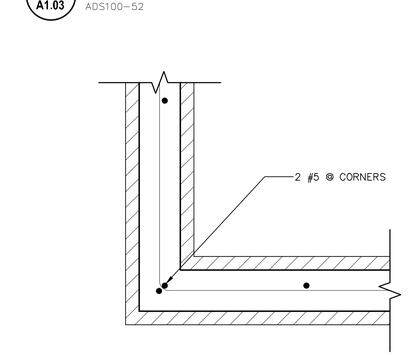
ADS100-52 N.T.S.




INSTALLATION:
1. DRILL HOLE 1/8" LARGER THAN REBAR DIAMETER
2. CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR.

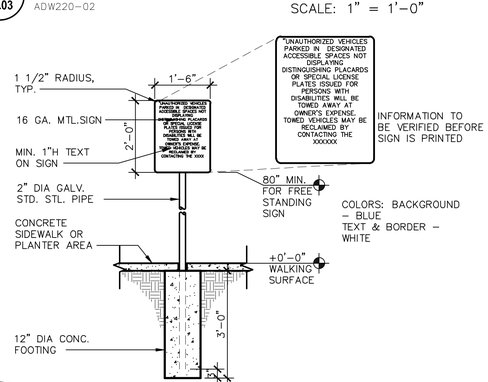
## 3 A1.03 (N) CONC WALK TO (E) CONC WALK

ADS100-05 SCALE: 1 1/2" = 1'-0"



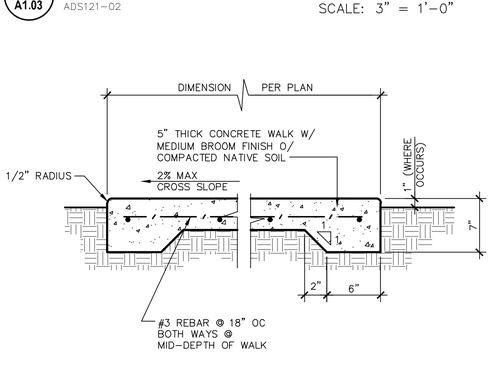

## 14 A1.03 CORNER WALL DETAIL

ADW220-02A SCALE: 1 1/2" = 1'-0"



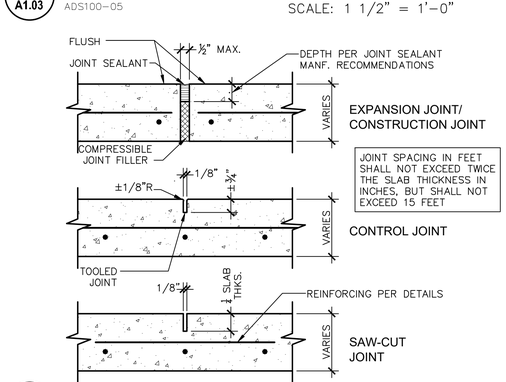

## 12 A1.03 TOW AWAY SIGNAGE

ADX100-10 SCALE: 1/2" = 1'-0"




## 8 A1.03 5" CONCRETE SLAB

ADS100-03 SCALE: 1 1/2" = 1'-0"




## 4 A1.03 CONCRETE JOINTS

ADS110-01 SCALE: 3" = 1'-0"

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LICENSED ARCHITECT CURTIS E. FLYNN No. C 28006 REN. 5-31-23 STATE OF CALIFORNIA

Sheet Title:

**SITE DETAILS**

Job No.: **5493**

Sheet No.: **A1.03**

Release: DSA APPROVAL 01-20-22

## ELECTRICAL SYMBOLS (yy), (zz)
ALL DIMENSIONS TO CENTER OF BOX, U.O.N.

| | | |
|---|---|---|
| | ⊕ | HOME RUN 3/4"C - MIN. (PANEL A, CIRCUIT #3) |
| | | CONDUIT STUB - CAPPED AND LABELED. |
| | 1 | ELECTRICAL KEYNOTE #1, REFER TO NOTES ON SAME SHEET. |
| | U.O.N. | UNLESS OTHERWISE NOTED |
| | W.P. | WEATHERPROOF |
| | | TERMINAL CABINET (SIZE AS SHOWN) |
| | | ELECTRICAL PANELBOARD |
| | J | JUNCTION BOX EQUIPPED WITH BLANK COVER |
| | J-1 | JUNCTION BOX EQUIPPED WITH BLANK COVER AND FLEX CONNECTION |
| | SD | SMOKE DETECTOR |
| | HD | HEAT DETECTOR |
| | HD | ATTIC HEAT DETECTOR |
| (A) | V 15 | FIRE ALARM VISUAL STROBE, 15 CANDELA (WALL MOUNTED) |
| (A) | V 30 | FIRE ALARM VISUAL STROBE, 30 CANDELA (WALL MOUNTED) |
| (A) | SV 75 | FIRE ALARM SPEAKER/75 CANDELA VISUAL STROBE (CEILING MOUNTED) |
| (A) | SP WP | FIRE ALARM EXTERIOR SPEAKER IN WALL |
| (B) | | COMBO TELEPHONE/DATA OUTLET IN WALL (+18" U.O.N.) |
| (C) | M | INTRUSION ALARM PASSIVE INFRARED DETECTOR ON CEILING |
| | DS | ACCESS CONTROL DOOR STRIKE |
| | WA | DATA OUTLET IN CEILING WIRELESS ACCESS POINT (2 'D' CABLES) |
| | MC HC | MC/HC LOCATION |
| | W.G. | WIRE GAURD |
| | | CONDUIT RUN IN WALL OR ATTIC |
| | | CONDUIT RUN IN FLOOR OR UG |
| | | SMOKE/FIRE CABLE SLEEVE THRU WALL. |
| | | CONDUIT STUB - CAPPED AND LABELED. |
| | | HOMERUN CONDUIT TO NEAREST CROSS CONNECT OR SOUND EQUIPMENT RACK |
| | | CONDUIT SLEEVE |
| | E | SUBSCRIPT DENOTES EXISTING SHALL REMAIN |
| | | |
| | | |
| | | |

## ELECTRICAL SYMBOLS NOTES:

(A) REFER TO FIRE ALARM DEVICES ELEVATION, DETAIL #_/E-_._ FOR RESPECTIVE MOUNTING HEIGHTS.

(B) ELECTRICAL CONTRACTOR SHALL PROVIDE A 5" SQUARE x 2 7/8" DEEP OUTLET BOX WITH SINGLE GANG RAISED RING, DEPTH AS REQUIRED. UNLESS OTHERWISE NOTED, RUN RUN 1-1/4"C FROM OUTLET BOX AND STUB INTO ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING. PROVIDE AN INSULATING BUSHING, BRIDGEPORT #TWB-54 OR EQUAL, AT STUB.

(C) ELECTRICAL CONTRACTOR SHALL PROVIDE A 4-11/16" SQUARE x 2 1/8" DEEP OUTLET BOX WITH SINGLE GANG RAISED RING, DEPTH AS REQUIRED. UNLESS OTHERWISE NOTED, RUN RUN 3/4"C FROM OUTLET BOX AND STUB INTO ACCESSIBLE ATTIC SPACE ABOVE T-BAR CEILING. PROVIDE AN INSULATING BUSHING, BRIDGEPORT #TWB-52 OR EQUAL, AT STUB.

## SEISMIC ANCHORAGE REQUIREMENTS

MECHANICAL, ELECTRICAL AND PLUMBING 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 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 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.

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):

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

MP☐ MD☐ PP☐ E☑ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #0052-13.

## TITLE 24, PART 6

THE CALIFORNIA ENERGY EFFICIENCY STANDARDS FOR NONRESIDENTIAL BUILDINGS HAS BEEN REVIEWED AND THE BUILDING DESIGN DESCRIBED ON THESE PAGES IS IN SUBSTANTIAL CONFORMANCE.

## CODE, RULES AND REGULATIONS

ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST REGULATIONS OF THE STATE FIRE MARSHAL, CALIFORNIA CODE OF REGULATIONS, SERVING UTILITY COMPANIES AND OTHER APPLICABLE STATE ORDINANCES. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THESE CODES. WHERE WORK OF A HIGHER DEGREE IS INDICATED IN THE PLANS OR SPECIFICATIONS THIS REQUIREMENT SHALL GOVERN.

## DIVISION OF THE STATE ARCHITECT APPLICABLE CODES AND STANDARDS

CODES:

2019 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2019 CALIFORNIA BUILDING CODE (C.B.C.), PART 2, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE, VOLUMES 1 AND 2 WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ELECTRICAL CODE (C.E.C.), PART 3, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA MECHANICAL CODE (C.M.C.), PART 4, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA PLUMBING CODE (C.P.C.), PART 5, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE (CEnC), PART 6, TITLE 24 C.C.R.

2019 CALIFORNIA FIRE CODE (C.F.C.), PART 9, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS)

2019 CALIFORNIA REFERENCED STANDARDS CODE (C.R.S.C.), PART 12, TITLE 24 C.C.R.

TITLE 19, C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

STANDARDS AND GUIDES:

NFPA 72 - NATIONAL FIRE ALARM CODE, 2016 EDITION (CALIFORNIA AMENDED)

ADAAG - AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES

UL 38 - MANUAL ACTUATED SIGNALING BOXES, 2008 EDITION

UL 268 - SMOKE DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2016 EDITION

UL 268A - SMOKE DETECTORS FOR DUCT APPLICATIONS, 2008 EDITION

UL 464 - AUDIBLE SIGNAL APPLIANCES, 2016 EDITION

UL 521 - HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION (WITH REVISIONS THROUGH JULY 2005)

UL 864 - CONTROL UNITS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 2014 EDITION

## NEW FEEDER SCHEDULE:

(ALL UNDERGROUND CONDUCTORS, OF A 480/277V POWER SYSTEM, SHALL BE TYPE CU-XHHW-2. ALL OTHER CONDUCTORS, INCLUDING THE EQUIPMENT GROUNDING CONDUCTOR, SHALL BE CU-THWN-2 FOR #8 AWG OR LARGER AND CU-THWN FOR #10 AWG OR SMALLER).

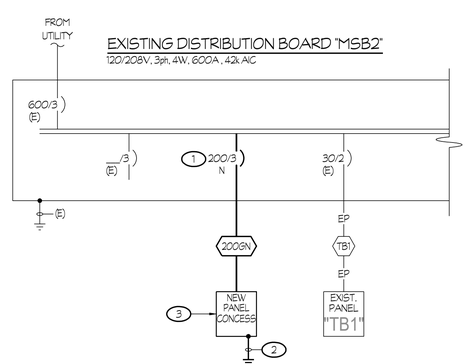
200GN 2"C-4#4/0 & 1#4 GND.

## EXISTING FEEDER SCHEDULE:

TB1 1 1/2"C - 3 #10 + 1 #8 GND.

## NOTES (THIS SHEET ONLY):

1. FURNISH AND INSTALL NEW CIRCUIT BREAKER MATCHING EXISTING BOARD IN STYLE, TYPE AND AIC RATING.
2. 1 #2 TO GROUNDING ELECTRODE SYSTEM PER DETAIL #4/E3.02.
3. PANEL PROVIDED BY BUILDING MANUFACTURER.




1 ONE LINE DIAGRAM

NTS

## COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

THE FIRE ALARM SYSTEM SHOWN ON THESE PLANS HAS BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. ANY SUBSTITUTION OF THE FIRE ALARM SYSTEM SHALL BE RESUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PAY ANY ADDITIONAL FEES THAT ARE INCURRED DUE TO THIS SUBSTITUTION.

THE FIRE ALARM SYSTEM SHALL BE A TOTAL (COMPLETE) AUTOMATIC HEAT AND SMOKE DETECTION SYSTEM, PER C.F.C. SECTION 907.2.3.6, AND SHALL COVER EVERY ROOM AND/OR AREA. UPON THE ACTIVATION OF ANY INITIATION DEVICE THE FIRE ALARM SYSTEM SHALL ALERT ALL OCCUPANTS AND TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION (C.F.C. SECTION 907.2.3.5).


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Exp. 6/30/23
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**KINGS CANYON UNIFIED SCHOOL DISTRICT**
1801 10TH ST.
REEDLEY, CA

Project Name:

**MODULAR RESTROOM & STORAGE**

Project Address:

**REEDLEY HIGH SCHOOL**
740 W NORTH AVE.
REEDLEY, CA


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**ELECTRICAL SYMBOLS, CODES NOTES AND ONE LINE DIAGRAMS**

Job No.: **5493**

Sheet No.: **EG1.01**

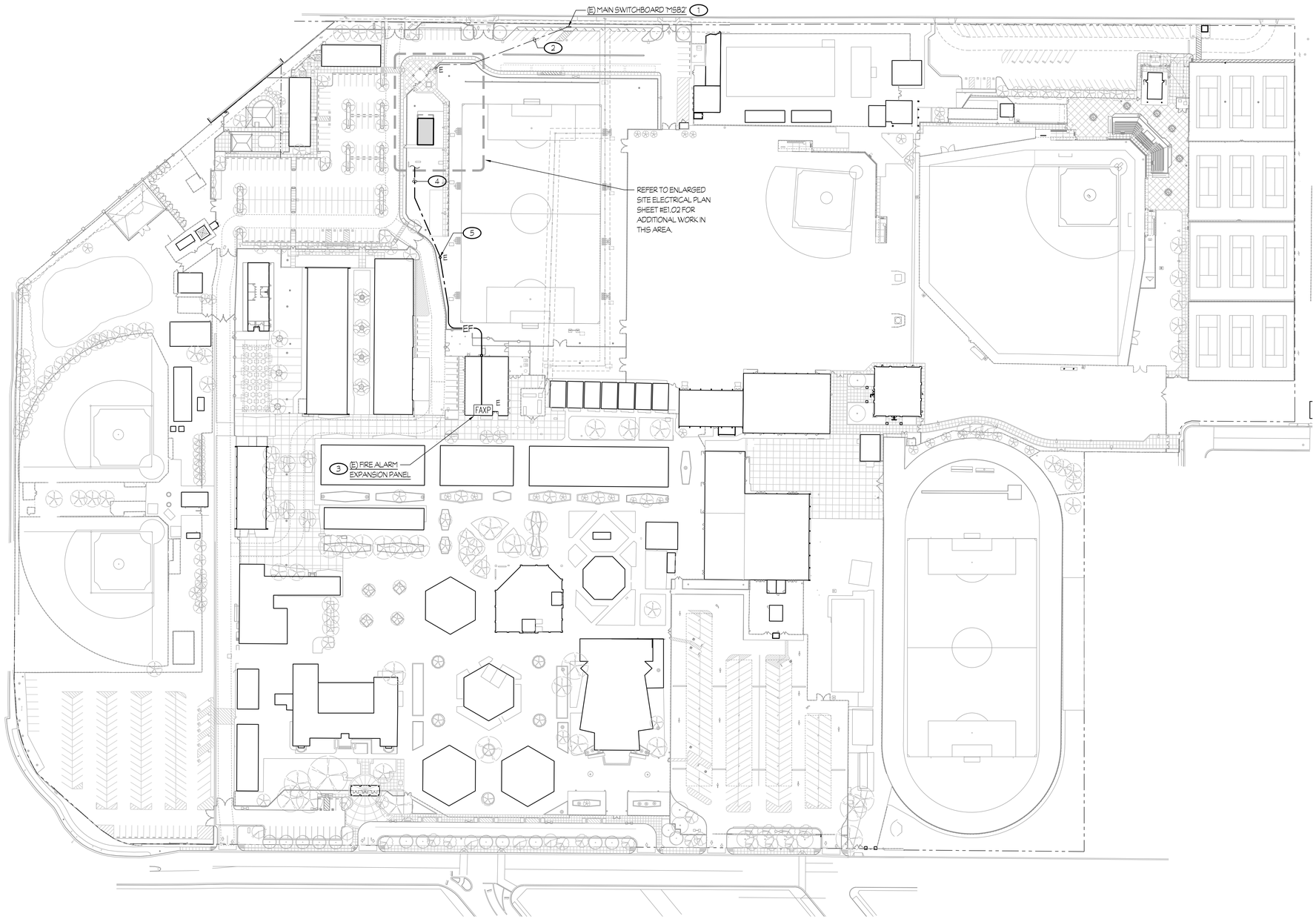
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1" = 40'-0" 120 80 40 0 40
1" = 30'-0" 90 60 30 0 30
1" = 20'-0" 60 40 20 0 20
1/8" = 1'-0" 24 16 8 0 8
1/4" = 1'-0" 12 8 4 0 4


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NOTES (THIS SHEET ONLY):

1. PROVIDE NEW CIRCUIT BREAKER PER ONE LINE DIAGRAM AS REQUIRED.
2. EXISTING 2" CONDUIT. PROVIDE NEW CONDUCTORS PER ONE LINE DIAGRAM.
3. CONNECT FIRE ALARM TO EXISTING "FAXP" AS REQUIRED.
4. NEW 2" CONDUIT W/ CABLES PER FIRE ALARM PLANS.
5. EXISTING PULLBOX. EXTEND EXISTING FIRE ALARM CIRCUIT AS REQUIRE TO NEW BUILDING.




1" = 40'-0" 120 80 40 0 40

1" = 30'-0" 90 60 30 0 30

1" = 20'-0" 60 40 20 0 20

1/8" = 1'-0" 24 16 8 0 8

1/4" = 1'-0" 12 8 4 0 4

# SITE ELECTRICAL PLAN

## MODULAR RESTROOM AND STORAGE

SCALE: 1" = 80'-0"


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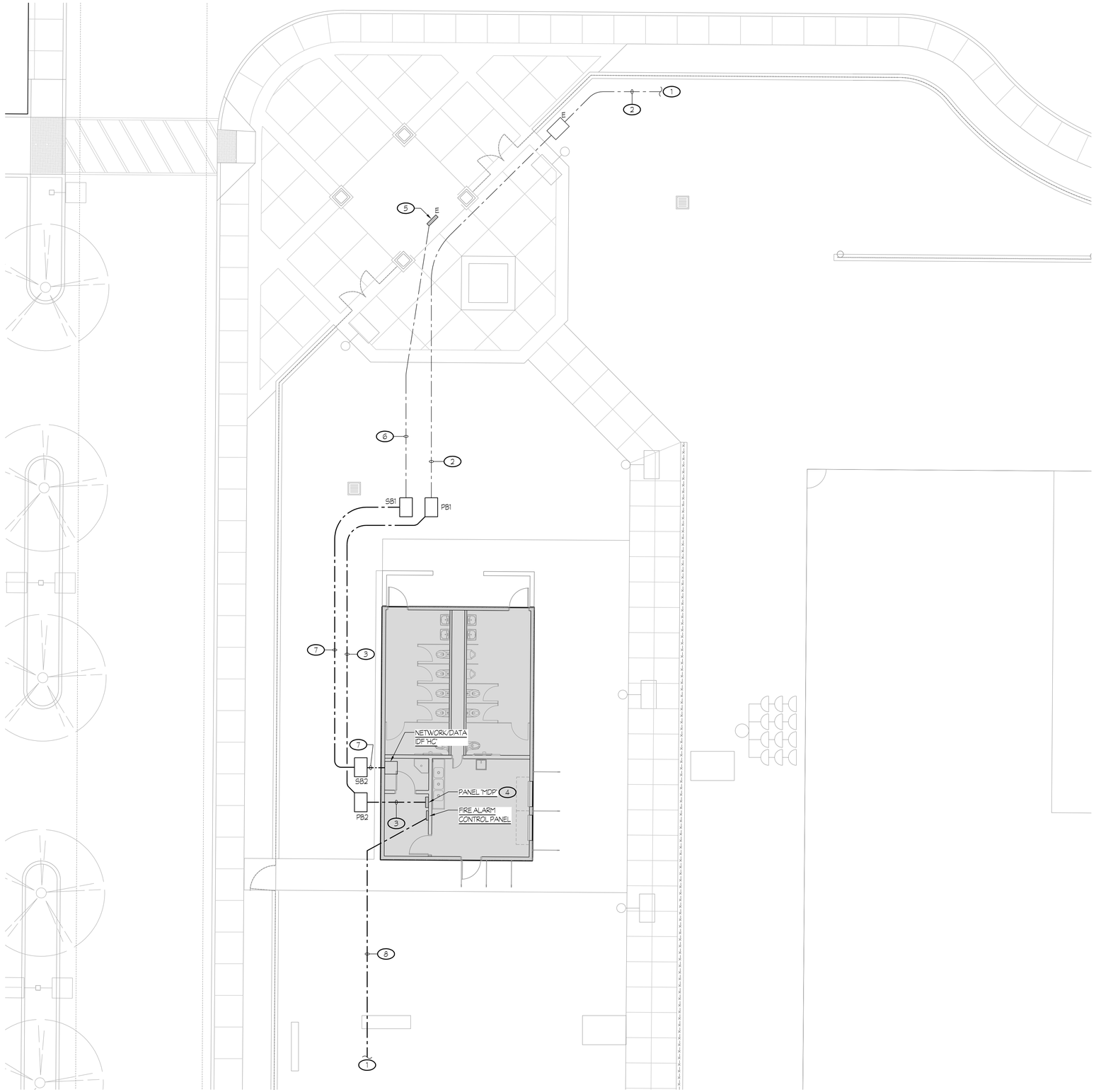
**SITE ELECTRICAL PLAN**

Job No.: **5493**

Sheet No.: E1.01

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1" = 20'-0" 60 40 20 0 20

1/8" = 1'-0" 24 16 8 0 8

1/4" = 1'-0" 12 8 4 0 4

## NOTES (THIS SHEET ONLY):

1. REFER TO SITE PLAN #E1.01 FOR CONTINUATION.
2. EXISTING 2" CONDUIT. PROVIDE NEW CONDUCTORS PER ONE LINE DIAGRAM.
3. NEW CONDUIT AND CONDUCTORS PER ONE LINE DIAGRAM.
4. PANEL PROVIDED BY BUILDING MANUFACTURER .
5. EXISTING NETWORK CABINET. CONNECT TO EXISTING FIBER OPTIC CABLE AND ROUTE TO NEW CONCESSION BUILDING AS REQUIRED.
6. EXISTING 2" CONDUIT WITH SIGNALS CABLES. PROVIDE NEW 6-STRAND FIBER OPTIC CABLE (SM) FOR CONCESSION BUILDING.
7. NEW 2"C - 6-STRAND FIBER OPTIC.
8. NEW 2"C - FIRE ALARM CABLES PER FA RISER DIAGRAM.

# ENLARGED SITE ELECTRICAL PLAN

## MODULAR RESTROOM AND STORAGE

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

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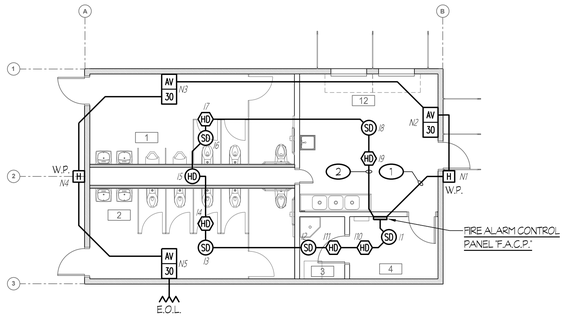
ENLARGED SITE ELECTRICAL PLAN

Job No.: 5493

Sheet No.: E1.02

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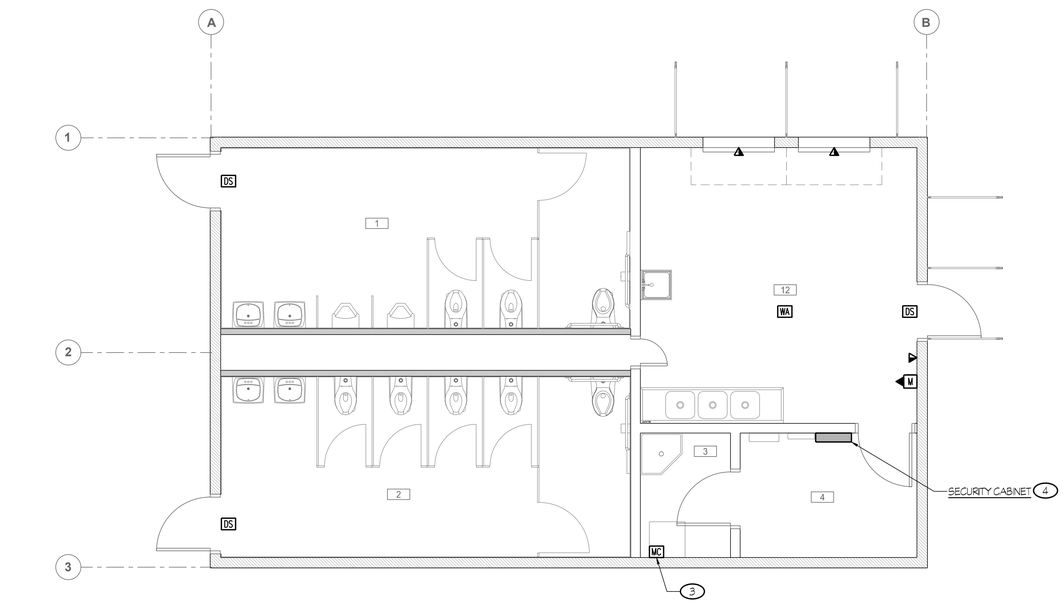
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# FIRE ALARM PLAN

## MODULAR RESTROOM AND STORAGE

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




# SIGNALS PLAN

## MODULAR RESTROOM AND STORAGE

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

## NOTES (THIS SHEET ONLY):

1. 1/2"C - ONE 'FN' CABLE. TYPICAL FOR NOTIFICATION CIRCUIT.
2. 1/2"C - ONE 'FA' CABLE. TYPICAL FOR INITIATING CIRCUIT.
3. HORIZONTAL CABLING CABINET. REFER TO DETAIL #6/E3.03 FOR REQUIREMENTS.
4. PROVIDED BY SECURITY CONTRACTOR WITH ALL COMPONENTS NECESSARY TO CONNECT TO INTRUSION ALARM SYSTEM. REFER TO DETAIL #9/E3.03 FOR MOUNTING REQUIREMENTS.

| ROOM LEGEND | |
|---|---|
| # | ROOM NAME |
| 1 | MEN'S TOILET |
| 2 | WOMEN'S TOILET |
| 3 | JANITOR CLOSET |
| 4 | STORAGE |
| 12 | ROOM |


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**FIRE ALARM AND SIGNAL PLANS**

Job No.: **5493**

Sheet No.: **E2.01A**

Release: DSA BACKCHECK 02-15-22


1" = 40'-0" 120 80 40 0 40
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1" = 20'-0" 60 40 20 0 20
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1" = 20'-0" 60 40 20 0 20

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## FIRE ALARM CONTROL PANEL "F.A.C.P." BATTERY POWER CALCULATIONS

| DESCRIPTION | QUANTITY | SUPV. CURRENT EACH | SUPV. CURRENT SUB-TOTAL | ALARM CURRENT EACH | ALARM CURRENT SUB-TOTAL |
|---|---|---|---|---|---|
| UNIT | 1 | 0.250 | 0.250 | 0.250 | 0.250 |
| CELLULAR COMM | 1 | 0.040 | 0.040 | 0.160 | 0.160 |
| SMOKE DETECTOR | 5 | 0.0003 | 0.0015 | 0.0065 | 0.0325 |
| HEAT DETECTOR | 1 | 0.0003 | 0.0003 | 0.0065 | 0.0065 |
| ATTIC HEAT DETECTOR | 6 | 0.0003 | 0.0018 | 0.0065 | 0.0390 |
| | | | | | |
| HORN/STROBE 30cd | 3 | —— | —— | 0.074 | 0.222 |
| EXTERIOR HORN | 2 | —— | —— | 0.044 | 0.088 |
| | | | | | |
| | TOTALS | | 0.2936 | | 0.798 |

TOTAL ALARM CURRENT OF 0.798 x 0.250 (15 MINUTES) = 0.200 A.H.

TOTAL SUPERVISORY CURRENT OF 0.294 x 24 HOURS = 7.046 A.H.

TOTAL AMP HOURS REQUIRED 7.246 A.H.

x 1.2 SAFETY FACTOR

8.70 A.H.

PROVIDE 12.0 AMP HOUR BATTERIES

## FIRE ALARM SYSTEM EQUIPMENT SPECIFICATIONS

| SYMBOL | DESCRIPTION | MANUF./MODEL # | CSFM LISTING # | BACKBOX REQUIREMENTS (A) | MOUNTING HEIGHT (TO CENTER U.O.N.) |
|---|---|---|---|---|---|
| FACP | FIRE ALARM CONTROL PANEL "F.A.C.P." | FIKE #CYBERCAT 50 | 7165-0900:0137 | INCLUDED | +60" PER DETAIL #_/E_.- |
| | W/ DACT & NETWORK CARD (FUTURE) | FIKE #10-2528 D.A.C.T. | | | |
| TG | W/ CELLULAR COMMUNICATOR | FIKE #10-2624 TELGUARD TG-7FS | 7300-1402:0500 | INCLUDED | |
| SD | ADDRESSABLE PHOTOELECTRONIC SMOKE DETECTOR | FIKE #63-1052/63-1054 | 7272-2010:0100 7300-0900:0138 | 3.5" OCTAGON BOX OR 4" OCTAGON BOX WITH RAISED ROUND COVER | PER DETAIL #2/E3.03 |
| HD | ADDRESSABLE HEAT DETECTOR, 135°F | FIKE #60-1039/63-1054 | 7270-0900:0152 7300-0900:0138 | 3.5" OR 4" x 1 1/2" DP. OCTAGONAL BOX WITH 1/2" RAISED ROUND COVER | PER DETAIL #2/E3.02 |
| HD | ADDRESSABLE HEAT DETECTOR, IN ATTIC, 190°F | FIKE #60-1039/63-1054 | 7270-0900:0152 7300-0900:0138 | 3.5" OR 4" x 1 1/2" DP. OCTAGONAL BOX WITH 1/2" RAISED ROUND COVER | PER DETAIL #2/E3.02 |
| AV 30 | HORN/STROBE, WALL MOUNTED (CANDELA RATING AS NOTED) | SYSTEM SENSOR #P2RL | 7135-1653:0503 | 4" SQ. x 2 1/8" DP, OUTLET BOX | —— |
| H WP | EXTERIOR HORN | SYSTEM SENSOR #HRK | 7135-1653:0189 | 4" SQ. x 2 1/8" DP, OUTLET BOX | |
| 'SFA' CABLE | ADDRESSABLE FIRE ALARM CABLE (OUTDOOR) | HONEYWELL #4151 | 7161-1487:0100 | —— | —— |
| 'SAN' CABLE | RS-485 AUDIO NETWORK | BELDEN #9841 | 7160-0060:0101 | —— | —— |
| 'FA' CABLE | ADDRESSABLE FIRE ALARM CABLE (INDOORS) | HONEYWELL #4111 | 7161-1487:0100 | —— | —— |
| 'FSP' CABLE | VOICE EVACUATION SPEAKER CABLE (INDOORS) | HONEYWELL #4106 | 7161-1487:0100 | —— | —— |
| 'FN' CABLE | FIRE ALARM CABLE 2C/12 AWG | WEST PENN #998 (INDOOR) #AG2227 (OUTDOOR) | 7161-0859:0101 | —— | —— |

### NOTES (FIRE ALARM SYSTEM EQUIPMENT SPECIFICATIONS):

(A) VERIFY BACKBOX REQUIREMENTS WITH FIRE ALARM SYSTEM EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

## VOLTAGE DROP CALCULATIONS (OHM'S LAW)

VOLTAGE DROP = 2 ( DC RESISTANCE AT 75°C FROM TABLE 8, C.E.C. ) ( LENGTH OF CIRCUIT / 1000 ) ( CURRENT I )

PERCENT VOLTAGE DROP = VOLTAGE DROP / NOMINAL VOLTAGE x 100

1. NOTIFICATION APPLIANCE CIRCUIT " N1 ":

AV 30 : 3 x 0.074 A = 0.222 A

H W.P. : 2 x 0.044 A = 0.088 A

0.310 A

VOLTAGE DROP = 2 (1.98) (95/1000) (0.310) = 0.117 V.D.

PERCENT VOLTAGE DROP = 0.117/24 x 100 = 0.5%

## FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS

| RESULT OF OPERATION ⇩ | TYPE OF INITIATION: MANUAL PULL STATION | SMOKE/HEAT DETECTOR | LOSS OF POWER | SHORT CIRCUIT/ GROUND FAULT |
|---|---|---|---|---|
| ANNUNCIATE ALARM AT FIRE ALARM CONTROL PANEL | YES | YES | —— | —— |
| ANNUNCIATE TROUBLE AT FIRE ALARM CONTROL PANEL | —— | —— | YES | YES |
| ANNUNCIATE SUPERVISORY AT FIRE ALARM CONTROL PANEL | —— | —— | YES | —— |
| ACTIVATE ALL AUDIBLE AND VISUAL ALARM SIGNALS | YES | YES | —— | —— |
| TRANSFER TO BATTERY BACK-UP | —— | —— | YES | —— |
| ANNUNCIATE AT A 24 HR. ATTENDED LOCATION | YES | YES | YES | NO |

## FIRE ALARM LEVEL OF AUDIBILITY

ALARM INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL BE SO LOCATED AND UNOBSTRUCTED AS TO CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15db ABOVE AMBIENT NOISE LEVELS MEASURED FOUR FEET ABOVE THE FLOOR INSIDE BUILDING.

AMBIENT NOISE LEVELS SHALL BE CONSTRUED TO MEAN THAT WHICH CAN NORMALLY BE EXPECTED TO EXIST WHEN THE FACILITY, BUILDING, ROOM OR AREA IS FUNCTIONING UNDER NORMAL OPERATIVE OR WORKING CONDITIONS.

THE FIRE ALARM SIGNAL SHALL COMPLY WITH THE CALIFORNIA EDUCATION CODE, SECTIONS 32000 AND 32004, AND BE A TEMPORAL PATTERN, CODE 3 AND THEN FOLLOWED BY ANY VOICE MESSAGES.

## SCHOOLS FIRE ALARM REQUIREMENTS

THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA BUILDING CODE, SECTION 907.2.3; CALIFORNIA ELECTRICAL CODE, ARTICLE 760 AND CALIFORNIA FIRE CODE, CHAPTER 9, SECTION 907.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY, NFPA 72. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING FIRE AGENCY.

FIRE ALARM SYSTEM CERTIFICATION AND DESCRIPTION SHALL BE PROVIDED FOR TESTING AND A PLASTIC LAMINATED COPY SHALL REMAIN (WITH INSTRUCTIONS) AT THE FIRE ALARM CONTROL PANEL PER NFPA 72.

THE FIRE ALARM 'CERTIFICATE OF COMPLETION' FORM IN NFPA 72 SHALL BE COMPLETED, SIGNED AND SUBMITTED.

## SCOPE OF WORK

1. PROVIDE NEW INITIATING DEVICE FOR FIRE DETECTION AND NOTIFICATION DEVICE FOR AUTOMATIC NOTIFICATION OF OCCUPANTS.
2. CONNECT TO EXISTING FIRE ALARM SYSTEM AND UPDATE PROGRAMMING AS NECESSARY TO SUPPORT NEW DEVICES.

## FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

## FIRE ALARM RECORD DOCUMENTS CABINET NFPA 72, 7.7.2

- EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION.
- THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, 'SYSTEM RECORD DOCUMENTS'.
- ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
- CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
- WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.

### SYSTEM DOCUMENTS AS APPLICABLE:

- RECORD DRAWINGS/AS-BUILTS.
- EQUIPMENT CUT SHEETS AND CA SFM LISTINGS.
- ALTERNATIVE MEANS AND METHODS.
- PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7).
- SYSTEM RECORD OF COMPLETION AND ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2).
- EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8.).
- EVALUATION DOCUMENTATION (NFPA 72, 7.3.9.).
- RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.6).
- SOFTWARE AND FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2).

## COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL

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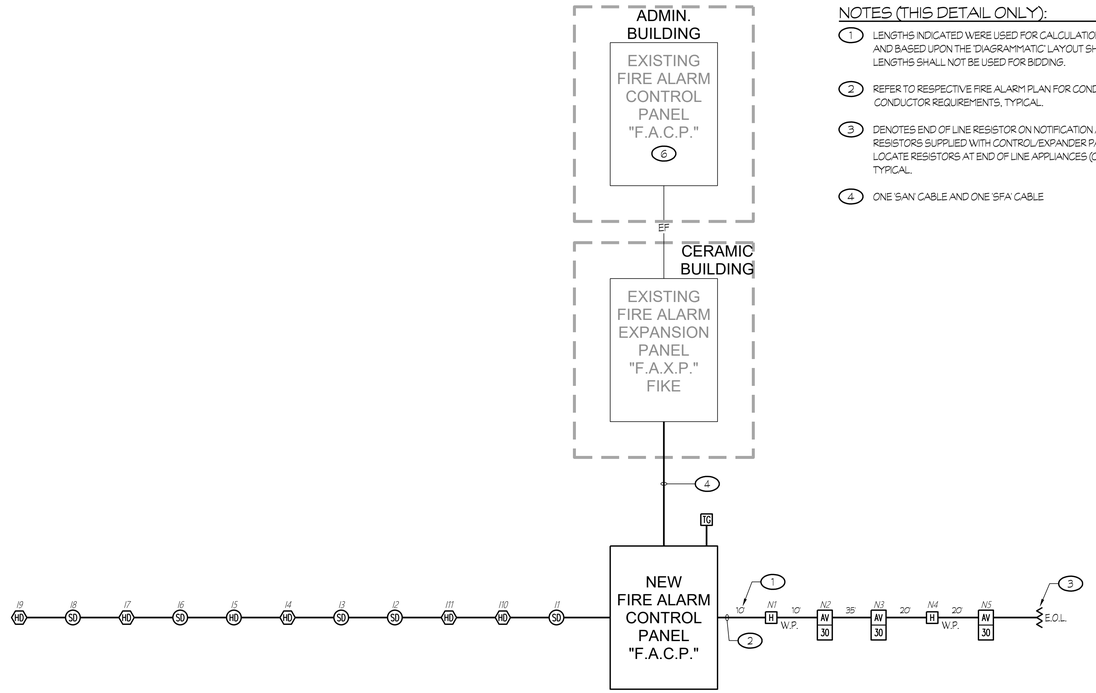
Sheet Title:

**FIRE ALARM SYMBOLS, NOTES, CODES, DETAILS AND BATT. CALC'S**

Job No.: **5493**

Sheet No.: E3.01

Release: DSA BACKCHECK 02-15-22




NOTES (THIS DETAIL ONLY):

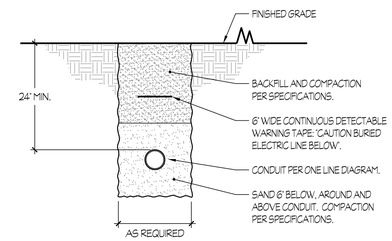
1. LENGTHS INDICATED WERE USED FOR CALCULATIONS/DESIGN PURPOSES ONLY AND BASED UPON THE 'DIAGRAMMATIC' LAYOUT SHOWN ON THE DRAWINGS. LENGTHS SHALL NOT BE USED FOR BIDDING.
2. REFER TO RESPECTIVE FIRE ALARM PLAN FOR CONDUIT AND CABLING/ CONDUCTOR REQUIREMENTS, TYPICAL.
3. DENOTES END OF LINE RESISTOR ON NOTIFICATION APPLIANCE CIRCUIT. RESISTORS SUPPLIED WITH CONTROL/EXPANDER PANELS AS REQUIRED. LOCATE RESISTORS AT END OF LINE APPLIANCES (CLASS 'B' WIRING), TYPICAL.
4. ONE '5AN' CABLE AND ONE '5FA' CABLE

## 1 FIRE ALARM SYSTEM RISER DIAGRAM

NTS

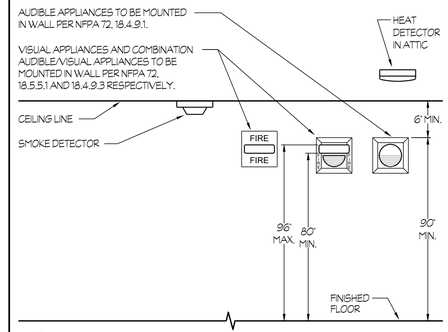
## 5 RESERVED

NTS



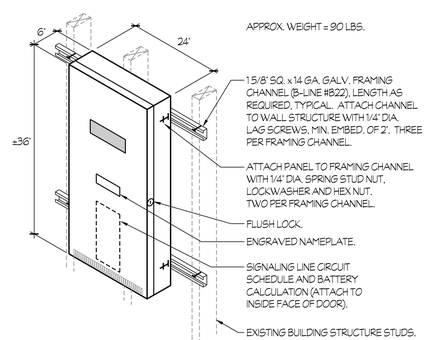

## 6 TRENCH DETAIL

NTS



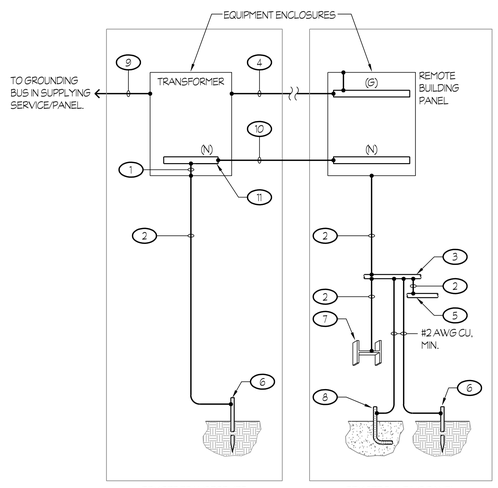

## 2 FIRE ALARM DEVICES ELEVATION

NTS




## 3 FIRE ALARM CONTROL PANEL MOUNTING

NTS




NOTES (THIS DETAIL ONLY):

1. SYSTEM BONDING JUMPER PER C.E.C. 250.30 (A), (1).
2. FULL SIZE GROUNDING ELECTRODE CONDUCTOR PER C.E.C., TABLE 250.66.
3. METAL WATER PIPING PER C.E.C. 250.104.
4. SUPPLY SIDE BONDING JUMPER PER C.E.C. 250.30 (A), (2).
5. OTHER ABOVEGROUND METALLIC PIPING SYSTEMS PER C.E.C. 250.104.
6. 5/8" DIA. ROD ELECTRODE PER C.E.C. 250.52 (A), (5).
7. BUILDING STRUCTURAL STEEL PER C.E.C. 250.104.
8. CONCRETE ENCASED ELECTRODE PER C.E.C. 250.52 (A), (3).
9. EQUIPMENT GROUND CONDUCTOR PER C.E.C., TABLE 250.122.
10. NEUTRAL CONDUCTOR PER FEEDER SCHEDULE.
11. NEUTRAL BAR.

LEGEND:

(G) DENOTES THE GROUND BUS OR BAR.
(N) DENOTES THE NEUTRAL BUS OR BAR.

GENERAL NOTE:

ALL MATERIALS AND METHODS USED IN GROUNDING AND BONDING SHALL COMPLY WITH C.E.C. ARTICLE 250.

## 4 REMOTE TRANSFORMER AND REMOTE BUILDING PANEL - GROUNDING AND BONDING

NTS

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

REGISTERED PROFESSIONAL ENGINEER — STEVEN KIRK EASTHAM — No. E-18786 Exp. 6/30/23 — ELECTRICAL — STATE OF CALIFORNIA

**DSA STAMP**

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119613 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022

Owner:

**KINGS CANYON UNIFIED SCHOOL DISTRICT**
1801 10TH ST.
REEDLEY, CA

Project Name:

**MODULAR RESTROOM & STORAGE**

Project Address:

**REEDLEY HIGH SCHOOL**
740 W NORTH AVE.
REEDLEY, CA

integrated designs
by SOMAM, Inc.

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P:(559) 436-0881 F:(559) 436-0887
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integrateddesigns.com

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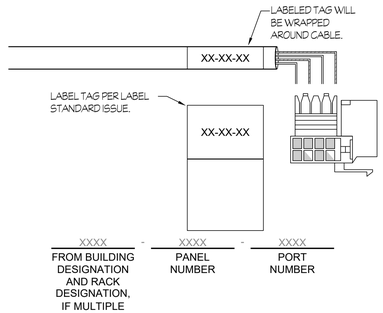
Sheet Title:
**DETAILS**

Job No.:
**5493**

Sheet No.:
**E3.02**

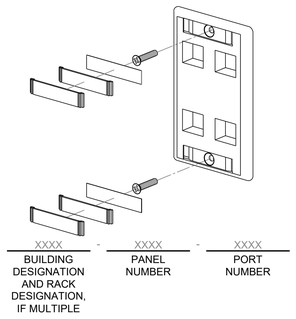
Release: DSA BACKCHECK 02-15-22

1" = 40'-0" 120 80 40 0 40
1" = 30'-0" 90 60 30 0 30
1" = 20'-0" 60 40 20 0 20
1/8" = 1'-0" 24 16 8 0 8
1/4" = 1'-0" 12 8 4 0 4
Z:\Drafting\Jobs\RSE\5340\03\Reedley\Reedley 455\5493 - RHS Concession\Restroom\Construction Documents\E3.02.dwg DATE SAVED: 02/15/22 By: Steve DATE PLOTTED: 02/15/22 JOB #: 22-03__SE



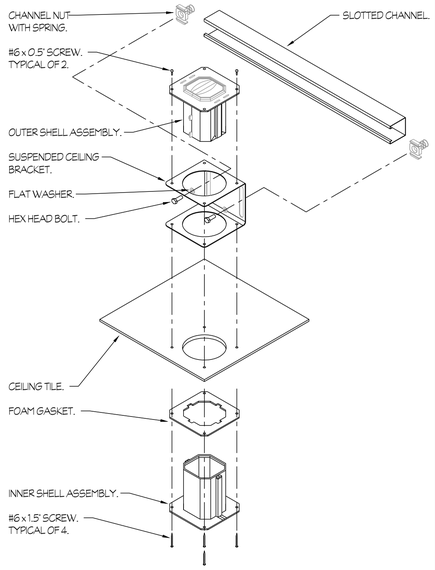

1 CABLE LINK IDENTIFIER LABELING FORMAT

NTS



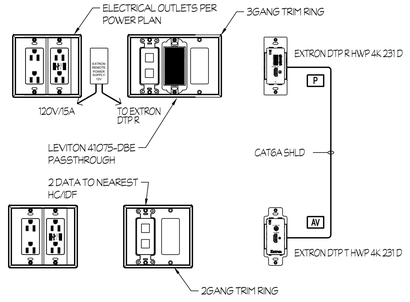

2 DATA OUTLET IDENTIFICATION MATRIX

NTS



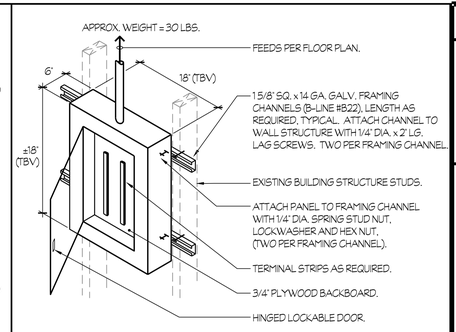

5 SMOKE AND ACOUSTICAL PATHWAY THRU CEILING KIT

NTS



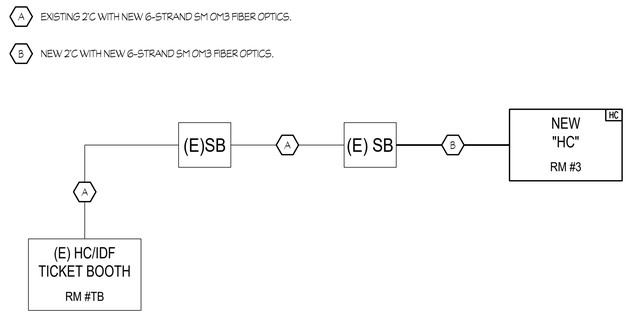

7 POINT TO POINT HDMI/3.5 AUDIO FOR CLASSROOM AUDIO VISUAL

NTS



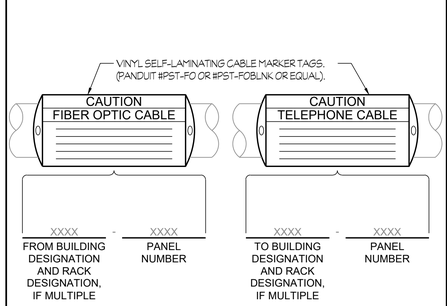

9 NEW SECURITY CABINET

NTS



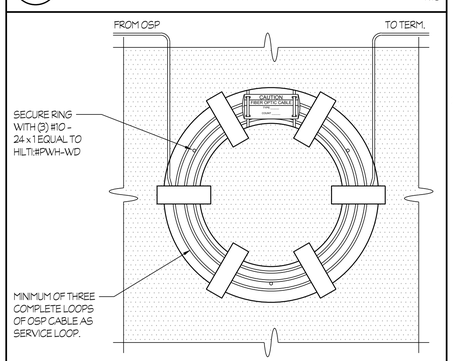

8 SIGNALS RISER DIAGRAM

NTS



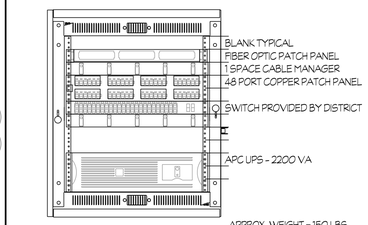

3 CABLE MARKER TAG

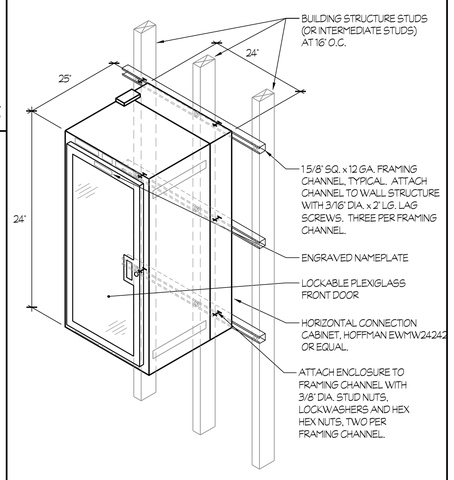
NTS




4 STORAGE RING FOR OSP CABLES

NTS




6 HORIZONTAL CONNECTION CABINET

NTS

# DSA STAMP

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**integrated designs**
by SOMAM, Inc.

**ARCHITECTURE ENGINEERING INTERIOR DESIGN**

6011 N. FRESNO STREET, SUITE 130
FRESNO CALIFORNIA 93710
P:(559) 436-0881 F:(559) 436-0887
E: design@somam.com
integrateddesigns.com

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Sheet Title:
**SIGNAL DETAILS**

Job No.:
**5493**

Sheet No.:
**E3.03**

Release: DSA BACKCHECK 02-15-22

Rose Sing Eastham & Associates
Electrical Consultants
131 S. Dunworth – (559)733-2671
Visalia, California 93292-6705

REGISTERED PROFESSIONAL ENGINEER
STEVEN KIRK EASTHAM
No. E-18786
Exp. 6/30/23
ELECTRICAL
STATE OF CALIFORNIA

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# NEW MODULAR RESTROOM / STORAGE BUILDING

# REEDLEY HIGH SCHOOL

## 740 W NORTH AVE , REEDLEY , CA , 93654

# KINGS CANYON UNIFIED SCHOOL DISTRICT

## GENERAL NOTES

NOTHING IN THE DRAWINGS AND/OR THE SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT AN INSTALLATION THAT COULD BE IN VIOLATION OF THE APPLICABLE CODES, ORDINANCES, REGULATIONS, RESTRICTIONS, ETC.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY. DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE DRAWINGS SHALL CAUSE THE CONTRACTOR TO NOTIFY THE ARCHITECT PRIOR TO MAKING ANY CHANGES IN THE WORK.

THE DRAWINGS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED HEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT/OWNER AND NO PART THEREOF SHALL BE COPIED OR DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THESE DOCUMENTS HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF JTS MODULAR INC. VISUAL CONTACT WITH THESE DRAWINGS CONSTITUTES CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND JTS MODULAR INC. MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

MISPLACEMENT, ADDITION, OR OMISSION OF ANY WORD, LETTER, FIGURE, PUNCTUATION MARK, ETC., SHALL IN NO WAY CHANGE OR ALTER THE TRUE INTENT, SPIRIT, OR MEANING OF THE DRAWINGS.

THE CONTRACTOR SHALL STUDY AND COMPARE ALL DRAWING SHEETS AND SHALL REPORT ANY ERRORS, OMISSIONS, OR INCONSISTENCIES TO JTS MODULAR INC. BEFORE COMMENCING WORK IN THAT AREA.

IF CONFLICTS BETWEEN VARIOUS ELEMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL) OF THE WORK OF THE DRAWINGS ARE DISCOVERED, THEY SHALL BE BROUGHT TO THE ATTENTION OF JTS MODULAR INC. IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.

EXISTING DIMENSIONS INDICATED ON THESE DRAWINGS HAVE BEEN PROVIDED FROM INFORMATION OBTAINED FROM THE DISTRICT. THE CONTRACTOR SHALL USE WHAT MEANS NECESSARY TO VERIFY THE DIMENSIONS IN THE AREAS OF DESIGNATED WORK THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO STARTING WORK IN THE AREA OF QUESTION.

ALL WORK SHALL CONFORM TO TITLE 24, 2019 CALIFORNIA CODE OF REGULATIONS (C.C.R.)

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CCD APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

ARCHITECT OF RECORD TO VERIFY WITH LOCAL AUTHORITY THAT FOUNDATION DEPTH IS BELOW FROST LINE WHEN BUILDING IS LOCATED IN SNOW CONDITION.

PC DESIGN IS NOT FOR INSTALLATION IN FIRE SEVERITY ZONES UNLESS REQUIREMENTS OF CBC CHAPTER 7A ARE DEMONSTRATED

A GEO-TECHNICAL REPORT IS REQUIRED FOR BUILDINGS LONGER THAN 118'-8" PER IR A4-13 & 3.2.1
SUBMIT GEA HAZARD REPORT TO CGS

THE NONDESTRUCTIVE TESTING INSPECTION IS TBD BY AOR/DSA PER PROJECT SPECIFIC REQUIREMENTS. ULTRASONIC (UT) TESTING SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLUMNS PER SCHEDULE ON DSA 103 HAVE A THICKNESS OF 5/16" OR GREATER. MAGNETIC PARTICLE TESTING SHALL BHE PERFORMED ON 25% OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.

## DESIGN PROFESSIONAL

**STRUCTURAL ENGINEER:**
ORION STRUCTURAL ENGINEERING,INC.
11305 RANCHO BERNARDO RD.,
SUITE 121, SAN DIEGO CA 92127

CONTACT: RYAN OMER
PHONE (858) 679-1974

**ELECTRICAL ENGINEER:**
CANTELMI ENGINEERING
1800 21ST., SUITE C
BAKERSFIELD, CA 93301

CONTACT: KAREN MARTIENZ
PHONE: (661) 324-5252

**MECHANICAL ENGINEER:**
CANTELMI ENGINEERING
1800 21ST., SUITE C
BAKERSFIELD, CA 93301

CONTACT: FRANK CANTELMI
PHONE: (661) 324-5252

**MODULAR MANUFACTURER**
**JTS MODULAR INC.**
7001 MC DIVITT DR.
BAKERSFIELD CA, 93313

CONTACT: JESSE WALLA
PHONE: (661) 835-9270

## APPLICABLE CODES

2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (CAC) , PART 1, TITLE 24 C.C.R., EFFECTIVE JULY 1, 2014 .

2019 CALIFORNIA BUILDING CODE (CBC) , PART 2, TITLE 24 C.C.R.

2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.

2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.

2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.

2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.

2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

2019 CALIFORNIA ENERGY CODE, PART 6, EFFECTIVE JULY 1, 2014

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART II, TITLE 24 C.C.R.

1990 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

NFPA 13 STANDARDS FOR THE INSTALLATION OF FIRE SPRINKLERS (2016 EDITION - CA AMENDED).

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

NFPA 25 STANDARD FOR INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS (2013 CA EDITION).

NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (2016 EDITION)

UL 38 MANUAL SIGNALING BOXES FOR FIRE ALARM SYSTEMS (2005 EDITION).

UL 268 SMOKE DETECTORS AND FIRE ALARM SYSTEMS (2009 EDITION)

UL 268A SMOKE DETECTORS FOR DUCT APPLICATIONS (2009 EDITION)
UL 464 AUDIBLE SIGNAL APPLIANCES (2003 EDITION)
UL 521 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (2005 EDITION ).
UL 1424 CABLES FOR POWER-LIMITED FIRE-ALARM CIRCUITS (2005 EDITION)
UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED (2004 EDITION) AMERICANS WITH DISABILITIES ACT.

## 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 # 02-119614 FILE #10-H6

☒ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
☐ 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: ☒ ALL DRAWINGS OR SHEET LISTED ON COVER OR SHEET INDEX ☐ THIS DRAWING OR PAGE

| | |
|---|---|
| ☒ IS/ARE IN GENERAL CONFORMANCE<br>☒ HAVE BEEN COORDINATED | ☒ IS/ARE IN GENERAL CONFORMANCE<br>☒ HAVE BEEN COORDINATED |
| SIGNATURE DATE<br>ARCHITECT/ENGINEER DESIGNATED TO BE IN RESPONSIBLE CHARGE<br>1/30/22<br>**RYAN OMER** | SIGNATURE DATE<br>ARCHITECT/ENGINEER DELEGATED RESPONSIBILITY FOR THIS PORTION OF WORK |
| PRINT NAME<br>S-4437 12/31/22 | PRINT NAME |
| LICENSE # EXP. DATE | LICENSE # EXP. DATE |

## BUILDING DATA

| | | | |
|---|---|---|---|
| DESIGN LOADS: | PER 2019 CBC | SEISMIC CONT : | MAPPED SPECTRAL RESPONSE ACCELERATION, $S_S$ = REFER TO S1.1 MAPPED SPECTRAL RESPONSE ACCELERATION, $S_1$ = REFER TO S1.1<br>SITE CLASS: REFER TO S1.1<br>DESIGN SPECTRAL RESPONSE ACCELERATION, $S_{DS}$ = REFER TO S1.1<br>DESIGN SPECTRAL RESPONSE ACCELERATION, $S_{D1}$ = REFER TO S1.1<br>SEISMIC DESIGN CATEGORY: REFER TO S1.1<br>BASIC SEISMIC-FORCE-RESISTING SYSTEM: WOOD SHEARWALL<br>DESIGN BASE SHEAR, V = REFER TO S1.1<br>RESPONSE MODIFICATION FACTOR, R = REFER TO S1.1<br>ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE |
| ROOF: | DEAD LOAD = REFER TO S1.1<br>DEAD LOAD = REFER TO S1.1 | | |
| WALLS: | | | |
| CEILING: | | | |
| SNOW: | GROUND SNOW LOAD, $P_G$ = 0 PSF<br>FLAT ROOF SNOW LOAD, P = 0PSF | | |
| WIND: | BASIC WIND SPEED (3-SEC GUST), V = 94 MPH<br>RISK CATERGORY: II<br>WIND EXPOSURE: C | | |
| SEISMIC: | SITE CLASS: D<br>SEISMIC DESIGN CATEGORY: D<br>SEISMIC IMPORTANCE FACTOR:1.0<br>RISK CATEGORY: II<br>Ss=.517 S1= .21 g, SDS= .478 ,SD1=NULL | | |

ONLY CHECKED BOXES APPLY TO THIS PROJECT

| | |
|---|---|
| ☒118(a) | INSTALLED INSULATING MATERIAL SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL, TITLE 20, CHAPTER 4, ARTICLE 3. |
| ☒118(c) | ALL INSULATING MATERIAL SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF CHAPTER 7 AND 719 OF TITLE 24, PART 2. |
| ☒117(a) | ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING THAT ARE OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, CASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED. |
| ☒116(b) | SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHER-STRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS). |
| ☒116(a) | MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES NOT EXCEEDING THOSE SHOWN IN TABLE NUMBER 1-E OF THE STANDARDS. MANUFACTURED FENESTRATION PRODUCTS MUST BE LABELED FOR U-VALUE ACCORDING TO NFRC PROCEDURES. |
| ☒118(e) | DEMISING WALLS IN NON-RESIDENTIAL BUILDINGS:<br>THE OPAQUE PORTIONS OF FRAMED DEMISING WALLS IN NON-RESIDENTIAL BUILDINGS SHALL HAVE INSULATION WITH AN INSTALLED R-VALUE NO LESS THAN R-19 BETWEEN FRAMING MEMBERS. |

| SITE SPECIFIC PROVISIONS | THIS BUILDING IS DESIGNATED AS: |
|---|---|
| LOCATION OF BUILDING SHALL COMPLY WITH C.B.C. CHAPTER(S) 3, 5, 7, 7A, 10, 11B, & 14 RELATIVE TO THE BUILDING'S PROXIMITY TO ADJACENT STRUCTURE AND PROPERTY LINES, EXTERIOR WALL AND OPENING PROTECTION, ALLOWABLE FLOOR AREA AND ACCESS TO PUBLIC RIGHT OF WAY. A SEPARATE APPLICATION SHALL BE FILED WITH DSA WHEN THIS BUILDINGS IS TO BE PLACED UPON A SPECIFIC SITE. IT SHALL BE THE RESPONSIBILITY OF THE SITE'S, ARCHITECT OR ENGINEER OF RECORD TO PLACE THE PROPOSED STRUCTURE IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES AND TO DETERMINE EXTERIOR WALL AND OPENING PROTECTION, IN ACCORDANCE WITH THE C.B.C., IF A CHANGE OF OCCUPANCY OR IF MULTIPLE OCCUPANCIES ARE REQUIRED FOR A SPECIFIC SITE, DRAWINGS MUST BE SUBMITTED TO DSA FOR APPROVAL. | ☒ PERMANENT<br>☐ TEMPORARY<br>☐ DAY CARE USE |

### CODE ANALYSIS

Modular Building

| Construction Type | Building Occupancy | Allowable Height |
|---|---|---|
| V-B | E - Educational | 40 Feet |

Actual Height
14'-3" Feet

| | |
|---|---|
| ACTUAL AREA = | 960 SQ .FT |
| OVERHANGS = | 0 SQ .FT |
| TOTAL = | 960 SQ .FT |

| OPTIONS LIST - KEY NOTES SOG 40 (02-118526) | | | | |
|---|---|---|---|---|
| NUMBER OF MODULES: | 2 | | | |
| WALL STUDS | ☒WOOD | ☐LIGHT-GAUGE STEEL | | |
| HVAC | ☐INTERIOR FLOOR MOUNTED | ☐EXTERIOR WALL MOUNTED | ☒SPLIT SYSTEM | ☐ROOF MOUNTED |
| ROOFING | ☐GABLE | ☐MONOSLOPE | ☒PARAPET | ☐BARREL |
| | ☐STANDING SEAM | ☒ TPO | | |
| | ☐3" x 20 GA. STANDING SEAM | ☐3" x 26 GA. STANDING SEAM OVER SHEATHING | ☒SINGLE-PLY | ☐BUILT-UP ROOFING |
| FRONT OVERHANG | ☒NO ☐YES - LENGTH: 7'-0" | | ENCLOSED: ☐YES ☐NO | |
| REAR OVERHANG | ☒NO ☐YES - LENGTH: 7'-0" | | ENCLOSED: ☐YES ☐NO | |
| SOLATUBE ON ROOF | ☒NO | ☐YES | | |
| FIRE SPRINKLERS | ☒NO | ☐YES | | |
| PARAPET | ☐NO | ☒YES | | |
| GEOHAZARD REPORT | ☐NO | ☐YES | | |
| | (IF YES) GEOTECHNICAL FIRM: | | | |
| | REPORT #: | REPORT DATE: | | |
| GEOTECHNICAL REPORT | ☐NO | ☐YES | * REQUIRED IF BUILDING AREA > 4,000 SF | |

## DRAWING INDEX

***ALL SHEETS WITH "-R" ARE BASED ON PC 02-118526**

**COVER SHEET (SHEETS:1)**
T-1.00-R TITLE PAGE

**ARCHITECTURAL (SHEETS: 8)**
A-1.11-R FLOOR PLAN
A-1.15-R ENLARGED FLOOR PLAN
A-1.22-R REFLECTED CEILING PLAN
A-1.32-R WINDOW, DOOR & FINISH SCHEDULES
A-2.02-R INTERIOR ELEVATIONS
A-3.01-R EXTERIOR ELEVATIONS
A-4.00-R ROOF PLAN
A-6.06 DETAILS

**STRUCTURAL (SHEETS: 1)**
S2.1-R EMBEDMENT PLAN

**MECHANICAL (SHEETS: 2)**
M3.01-R MECHANICAL FLOOR & ROOF PLANS
M5.03 MECHANICAL SCHEDULES & DETAILS

**ELECTRICAL (SHEETS: 3)**
E3.01-R ELECTRICAL POWER & LIGHTING PLANS
E3.12 ELECTRICAL ROOF PLAN
E5.05 ELECTRICAL DETAILS & SCHEDULE

**PLUMBING (SHEETS: 3)**
P1.02-R PLUMBING FLOOR PLAN - SEWER, WASTE & VENT - (ABOVE & BELOW FINISH FLOOR)
P1.06 PLUMBING FLOOR PLAN - DCW & DHW
P5.03 PLUMBING DETAILS & SCHEDULES

**TITLE 24 (SHEETS: 2)**
EC1.01-R ENERGY CALCULATIONS
EC1.02-R ENERGY CALCULATIONS

## PC DRAWING INDEX

**SW SOG 40 PC 02-118526 (SHEETS 53)**

**ARCHITECTURAL PC 02-118526 (SHEETS: 17)**
T-1.00 TITLE PAGE
T-1.01 TEST & INSPECTION GUIDELINES
A-1.07 FLOOR PLANS: 2M-RR & 6M (SPLIT SYSTEM HVAC)
A-1.15 ENLARGED FLOOR PLANS
A-1.30C REFLECTED CEILING PLANS: 2M-RR & 6M-RR
A-1.31 GENERAL NOTES & CASEWORK DTLS
A-1.32 SCHEDULES
A-2.02 INTERIOR ELEVATIONS
A-2.20 ACCESSIBILITY DETAILS
A-3.09 EXTERIOR ELEVATIONS PARAPET ROOF
A-4.00 ROOF PLANS
A-5.04 BUILDING SECTIONS
A-6.00 DETAILS
A-6.01 DETAILS
A-6.02 DETAILS
A-6.03 DETAILS
A-6.05 DETAILS

**STRUCTURAL PC 02-118526 (SHEETS: 20)**
S1.1 TYPICAL NOTES
S1.2 TYPICAL NOTES
S1.3 TYPICAL NOTES
S1.4 TYPICAL DETAILS
S1.5 TYPICAL DETAILS WOOD FRAMING
S1.6 TYPICAL DETAILS WOOD FRAMED SHEAR WALL
S1.7 TYPICAL DETAILS ROOF FRAMING
S1.8 TYPICAL DETAILS
S1.9 TYPICAL DETAILS
S2.2 EMBEDMENT PLAN 2 MODULES
S3.2 FOUNDATION PLAN 2 MODULES
S4.3 ROOF FRAMING PLAN SINGLE SLOPE PARAPET
S5.5 FRAME ELEVATIONS SINGLE SLOPE PARAPET
S5.6 FRAME ELEVATIONS SINGLE SLOPE
S5.9 FRAME DETAILS
S6.1 FOUNDATION DETAILS WOOD STUD WALLS
S6.3 FOUNDATION SHIM DETAILS WOOD STUD WALLS
S7.1 WOOD STUD FRAMING DETAILS
S7. 5 WOOD STUD FRAMING DETAILS
S7.6 PARAPET FRAMING DETAILS WOOD STUD

**MECHANICAL PC 02-118526 (SHEETS: 5)**
M0.01 MECHANICAL NOTES
M0.02 MECHANICAL PLANS: 1M-RR & 1M-RR+JAN
M1.01 MECHANICAL PLANS: 2M & 3M (EXTERIOR MTD. HEAT PUMP)
M5.01 MECHANICAL DETAILS
M5.02 MECHANICAL SCHEDULE & DETAILS

**ELECTRICAL PC 02-118526 (SHEETS: 5)**
E0.01 ELECTRICAL NOTES
E2.01 ELECTRICAL PLANS: 2M & 3M (SPLIT HVAC SYSTEM)
E3.11 ELECTRICAL PLANS: ROOF (SOLAR PANEL SYSTEM)
E5.03 ELECTRICAL DETAILS
E5.04 ELECTRICAL LIGHTING SCHEDULE & DETAILS

**PLUMBING PC 02-118526 (SHEETS: 5)**
P0.01 PLUMBING NOTES
P1.02 PLUMBING PLANS: 2M-RR & 6M-RR+JAN
P2.06 PLUMBING PLANS: 2M-RR & 6M-RR+JAN
P5.01 PLUMBING DETAILS
P5.02 PLUMBING SCHEDULES

**WASTE MANAGEMENT PC 02-118526 (SHEETS 1)**
WM-1.00 WASTE MGMT. PLAN

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DATE: 03/04/2022

APPROVALS
FILE # APPLICATION #


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NEW MODULAR RESTROOM/STORAGE BUILDING
REEDLEY HIGH SCHOOL
KINGS CANYON UNIFIED SCHOOL DISTRICT
740 W NORTH AVE, REEDLEY , CA 93654
DRAWING TITLE

DSA APPLICATION NO.
02-119613

PROJECT NO.
03-1181

DRAWING
**T-1.00-R**

PLOT DATE: M:\05-10 Master Project File\2022 Projects\03-1181 Kings Canyon - Various Sites\03-1181 Design\2 Working Drawings\CAD Files\T-1.00 REEDLEY RESTROOM.dwg Feb 14 2022 5:19pm

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## KEYNOTES

1. MODLINE, TYP.
2. RECESSED FIRE EXTINGUISHER CABINET MULTI PURPOSE CHEMICAL CLASS A,B,C (U/L RATING : 2A-10BC) FIRES REFER TO DETAIL 8/A-6.02 (02-118526)
3. ELECTRIC PANEL FLUSH WITH WALL, TYP. - REFER TO 10/E-5.03 (02-118526)
4. WATER HEATER - REFER TO 8/P5.01 (02-118526)
5. FLOOR SINK - REFER TO 11/P5.01 (02-118526)
6. MOP SINK
7. FLOOR DRAIN, TYP.
8. IDF PANEL 80"+ - REFER TO 13/E5.03 (02-118526)
9. FACP - REFER TO 9/E-5.03 (02-118526)
10. SECURITY PANEL - REFER TO 10/E-5.03 (02-118526) PANEL TO BE FLUSH TO THE WALL
11. NOT USED
12. HAND SINK - REFER TO PLUMBING FIXTURE SCHEDULE SHEET P5.03
13. STAINLESS STEEL COUNTER - REFER TO 3/A-6.06
14. ROLL UP DOOR
15. ICE MAKER

## GENERAL NOTES

A. INSULATE ALL INTERIOR AND EXTERIOR WALLS AND EXTEND TO UNDERSIDE OF ROOF.

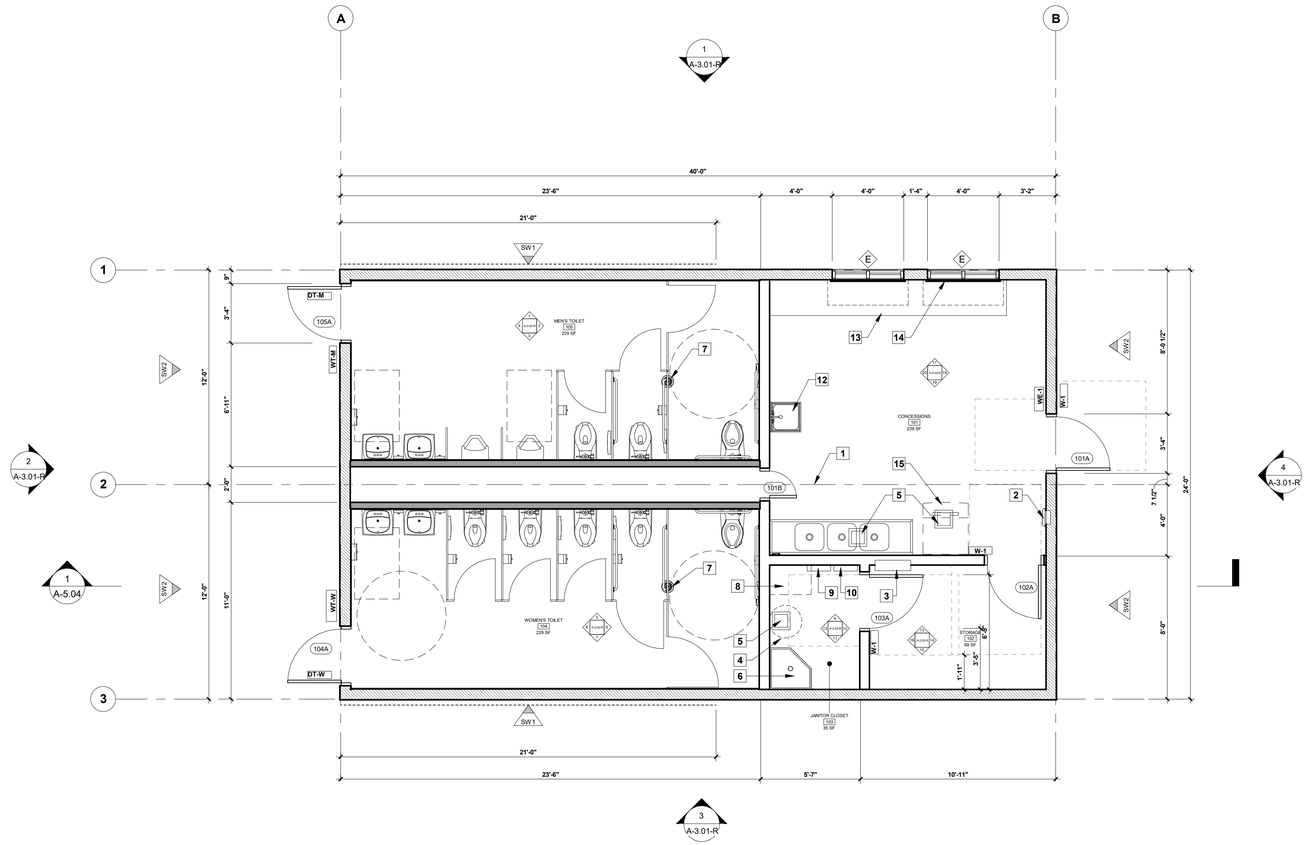
B. REFER TO DRAWING A-2.20 FOR ACCESSIBLE MOUNTING HEIGHTS & OTHER REQUIRED ACCESSIBILITY. (02-118526)

C. BUILDING POIWER SYSTEMS SHALL BE COMPLIANT WITH THE 2019 CALIFORNIA ENERGY CODE. PROVIDE ALL COMPLIANCE FORMS AS REQUIRED BY CODE

D. REFER TO A-1.15 PC (02-118526) FOR MORE INFORMATION

## LEGEND

- 5'-0" WHEEL CHAIR CLEARANCE
- 48" X 30" LAV. CLEAR SPACE
- 60" X 60" TOILET CLEARANCE
- 2'-0" MIN. @ EXT. 18" MIN. @ INT. / 1'-0" MIN. — CLEAR SPACE AT DOORS SEE SHEET 2/A-2.20
- 2 X 4 WOOD STUD CHASE WALL REFER TO DETAIL 16E/A-6.00
- 2 X 6 WOOD STUD INTERIOR WALL REFER TO DETAIL 16D/A-6.00
- 2 X 6 WOOD STUD EXTERIOR WALL REFER TO DETAIL 16A/A-6.00
- A — WINDOW, SEE SCHEDULE ON A-1.32R
- 101 — DOOR, SEE SCHEDULE ON A-1.32
- ROOM NAME / RM. # — ROOM TAG
- DT-U — UNISEX ADA RESTROOM SIGNAGE
- WT-W — WOMEN RESTROOM ROOM ID
- WT-M — MEN'S RESTROOM ROOM ID
- DT-W — WOMENS RESTROOM SIGNAGE
- DT-M — BOYS RESTROOM SIGNAGE
- WE-1 — EXIT SIGNAGE
- W-1 — ROOM NAME




# FLOOR PLAN
1/4" = 1'-0"

1
3/16" = 1'-0"

PLOT DATE:


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REGISTERED PROFESSIONAL ENGINEER
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EXP. 12/31/22
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DRAWING TITLE
FLOOR PLAN

DATE 2/14/2022
5:17:01 PM

DSA APPLICATION NO.
02-119613

PROJECT NO.
03-1181

DRAWING
A-1.11-R

FOR KEYNOTES , ACCESSORIES SCHEDULE
REFER TO A-1.15 02-118526

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## GENERAL NOTES

A. INSULATE ALL INTERIOR AND EXTERIOR WALLS AND EXTEND TO UNDERSIDE OF ROOF.

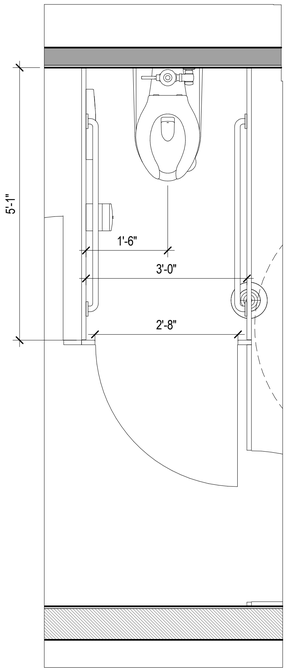
B. REFER TO DRAWING A-2.20 FOR ACCESSIBLE MOUNTING HEIGHTS & OTHER REQUIRED ACCESSIBILITY.

C. BUILDING POWER SYSTEMS SHALL BE COMPLIANT WITH THE 2019 CALIFORNIA ENERGY CODE. PROVIDE ALL COMPLIANCE FORMS AS REQUIRED BY CODE

D. REFER TO A-1.15 FOR ACCESSORY SCHEDULE (02-118526)

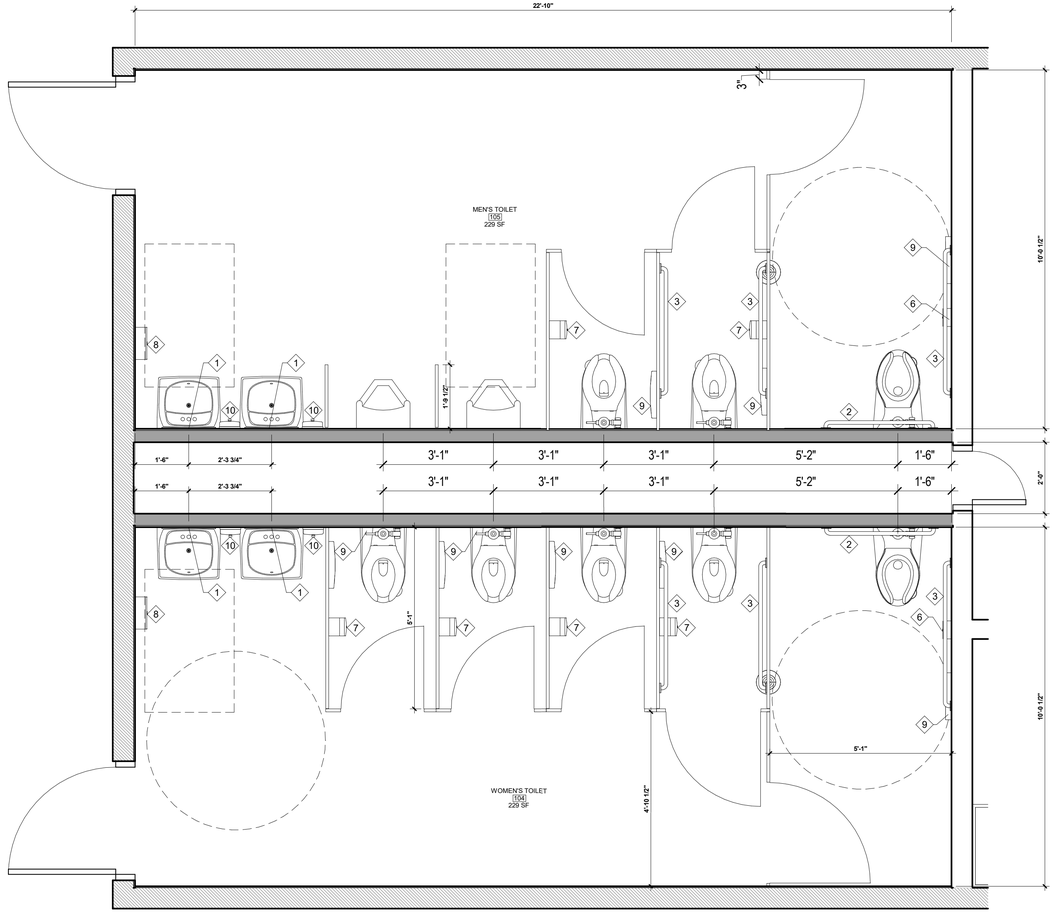
## LEGEND

- 2 X 6 WOOD STUD INTERIOR WALL REFER TO DETAIL 16B/A-6.00
- 2 X 6 WOOD STUD EXTERIOR WALL REFER TO DETAIL 16A/A-6.00
- 2 X 4 WOOD STUD CHASE WALL REFER TO DETAIL 16F/A-6.00
- 5'-0" WHEEL CHAIR CLEARANCE
- 48" X 30" LAV. CLEAR SPACE
- 60" X 60" TOILET CLEARANCE
- 2'-0" MIN. @ EXT. 18" MIN. @ INT. / 1'-0" MIN. — CLEAR SPACE AT DOORS SEE SHEET 2/A-2.20




TYPICAL AMBULATORY COMPARTMENT DETAIL
2 3/4" = 1'-0"

*** REFER TO DETAIL 6/A-2.20 02-118526**




1 **ENLARGED FLOOR PLAN**
1/2" = 1'-0"

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DRAWING TITLE
**ENLARGED FLOOR PLAN**

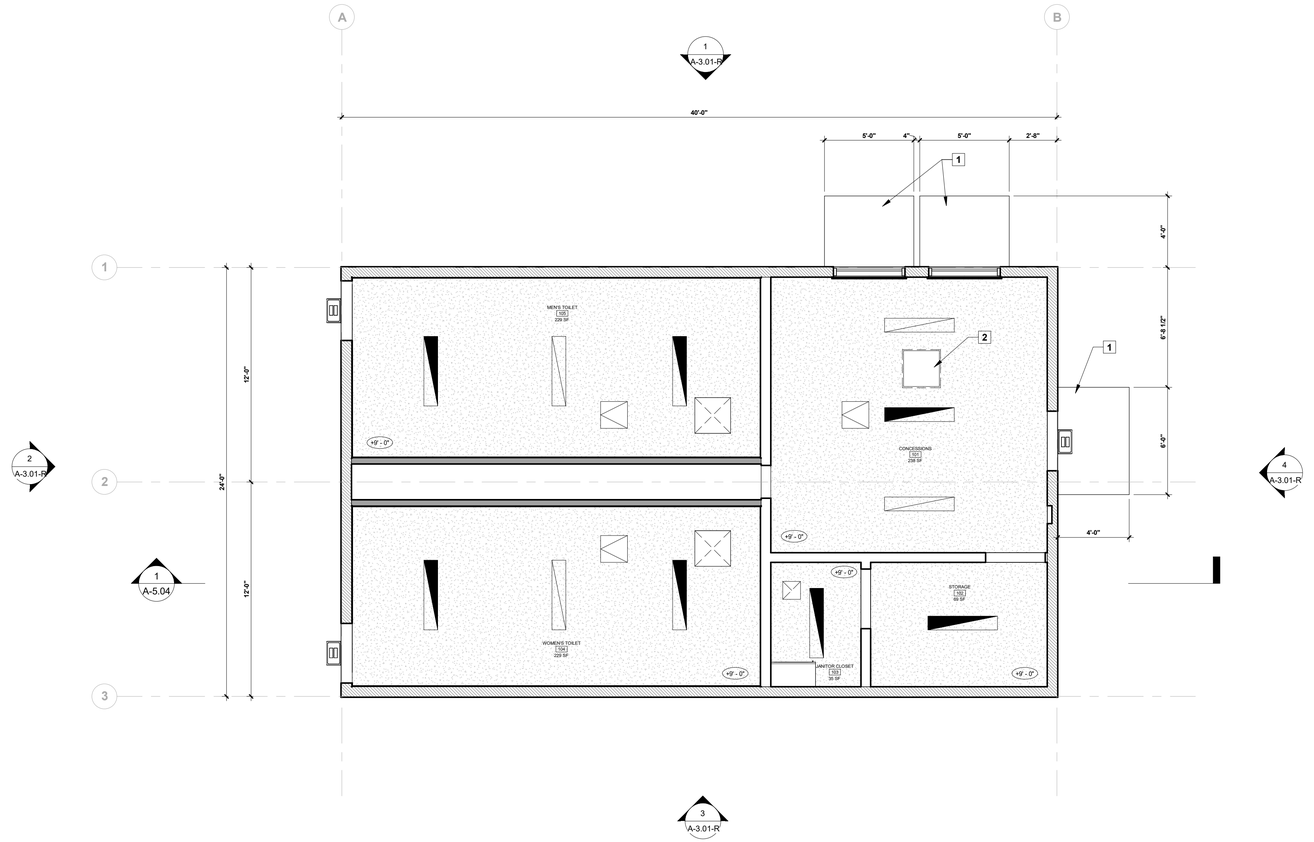
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02-119613

PROJECT NO.
03-1181

DRAWING
**A-1.15-R**

PLOT DATE:




## REFLECTED CEILING PLAN
1/4" = 1'-0"

PLOT DATE:

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## KEYNOTES

1. CANOPY TYP. - REFER TO 3/A-6.05 (02-118526)
2. HVAC CASSETTE - REFER TO 3/M-5.03
3. EXIT SIGN

## GENERAL NOTES

A. INTERIOR AND EXTERIOR LIGHTING SYSTEMS AND CONTROLS SHALL BE COMPLIANT WITH THE 2019 CALIFORNIA ENERGY CODE. PROVIDE ALL COMPLIANCE FORMS AS REQUIRED BY CODE.

B. ALL COLORS TO BE SELECTED @ LATER DATE BY ARCHITECT

C. REFER TO 2/A-6.00 FOR MORE INFORMATION (02-118526)

## LEGEND

- 1' X 4' SURFACE MOUNT LIGHT FIXTURE
- 1' X 4' SURFACE MOUNT EMERGENCY LIGHT FIXTURE
- LED DOWNLIGHT
- EMERGNCY LED DOWNLIGHT
- EXTERIOR WALL-MOUNTED LIGHT FIXTURE - REFER TO ELECTRICAL
- GYP. BD. O/ 2X6 CEILING FRAMING AT 16" O.C., TAPE, TEXTURE, PAINT, U.O.N. REFER TO 2/A-6.00
- EXPOSED CEILING
- EXHAUST AIR CEILING - SEE MECHANICAL DRAWINGS
- 14"X14" ATTIC ACCESS - COORDINATE WITH FIRE HEAT DETECTOR


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DRAWING TITLE
**REFLECTED CEILING PLAN**

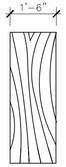
DATE **2/14/2022**
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DSA APPLICATION NO.
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PROJECT NO.
03-1181

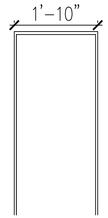
DRAWING
**A-1.22-R**

# DOOR TYPE



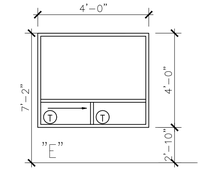

"K"
1 3/4" THK. SOLID CORE WOOD DOOR

# FRAMES TYPE




"3"
TIMELY STEEL FRAME

# WINDOW TYPE & SCHEDULE




WINDOW SCHEDULE

| SYMBOL | WIDTH | HT. | TYPE | GLAZING | FINISH | FRAME | HEAD DTL | JAMB DTL | SILL DTL |
|---|---|---|---|---|---|---|---|---|---|
| E | 4'-0" | 4'-0" | FIXED / SLIDER | TEMPERED 1"INSULATING GLASS UNIT | SATIN ANODIZED | ALUMINUM | 7/A-6.00 | 12/A-6.00 | 9/A-6.06-R |
| | | | | | | | | | |

# DOOR SCHEDULE

| DOOR NO. | DOOR | | | FRAME | | HDWR | DETAILS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | TYPE | SIZE (EACH LEAF) | MAT'L | TYPE | MAT'L | | L&R/JAMB | HEAD | THRESHOLD | REMARKS |
| 101A | A | 3'-0" X 7'-0" | HM | 1 | HM | 1 | 13/A-6.00 | 8/A-6.00 | A-1.32 | |
| 101B | K | 1'-6" X 7'-0" | SC | 3 | TS | 7 | | | A-1.32 | |
| 102A | E | 3'-0" X 7'-0" | HM | 1 | HM | 7 | 15/A-6.00 | 15/A-6.00 | | |
| 103A | E | 3'-0" X 7'-0" | HM | 1 | HM | 7 | 15/A-6.00 | 15/A-6.00 | | |
| 104A | E | 3'-0" X 7'-0" | HM | 1 | HM | 4 | 13/A-6.00 | 8/A-6.00 | A-1.32 | |
| 105A | E | 3'-0" X 7'-0" | HM | 1 | HM | 4 | 13/A-6.00 | 8/A-6.00 | A-1.32 | |
| | | | | | | | | | | |

# INTERIOR FINISH SCHEDULE

INTERIOR FINISH SCHEDULE

| ROOM NUMBER | ROOM TYPE | FLOOR | | BASE | | | WALLS | | | | | | | | CEILING | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | NORTH | | EAST | | SOUTH | | WEST | | | | | |
| | | MAT | FIN | MAT | FIN | HT | MAT | FIN | MAT | FIN | MAT | FIN | MAT | FIN | MAT | FIN | HT | |
| 105 | MEN'S TOILET | PC | FF | CTB | FF | 6" | CT | FF | CT | FF | CT | FF | CT | FF | GB | P | 9'-0" | |
| 104 | WOMEN'S TOILET | PC | FF | CTB | FF | 6" | CT | FF | CT | FF | CT | FF | CT | FF | GB | P | 9'-0" | |
| 101 | SERVING AREA | AL | FF | AL | FF | 6" | FRP | FF | FRP | FF | FRP | FF | FRP | FF | GB | P | 9'-0" | |
| 102 | STORAGE | AL | FF | AL | FF | 6" | FRP | FF | FRP | FF | FRP | FF | FRP | FF | GB | P | 9'-0" | |
| 103 | JANITOR CLOSET | AL | FF | AL | FF | 6" | FRP | FF | FRP | FF | FRP | FF | FRP | FF | GB | P | 9'-0" | |

## DOOR MATERIAL:

| | |
|---|---|
| HM | HOLLOW METAL |
| TS | TIMELY STEEL |

## FINISHES:

| | |
|---|---|
| P | PAINT, SEE SPECIFICATIONS |
| PC | POLISHED CONCRETE |
| AA | ANODIZED ALUMINUM |
| FF | FACTORY FINISH |
| AL | ALTRO 25 |
| IG1-T | INSULATED GLASS UNIT, TINTED TEMPERED GLASS |

ABBREVIATIONS

| | | | | |
|---|---|---|---|---|
| ACT - ACOUSTIC CEILING TILE | EC - EXPOSED CONCRETE | GB - GYPSUM BOARD | PL - PLYWOOD SHEATHING | ACX - ACX PLYWOOD |
| BYP - BOARD TAPED & PRIMED | EPS - EXPOSED PAINTED SCRIM | OA - OPEN TO ATTIC | QT - QUARRY TILE | TB - VINYL COVERED TACK BOARD |
| CPT - CARPET | FF - FACTORY FINISH | P - PAINT | RTB - RUBBER TOPSET BASE | VCT - VINYL COMPOSITE TILE |
| CT - CERAMIC TILE | FRP - FIBER REINFORCED POLYESTER PANELS | PMS - PERFORATED METAL SOFFIT | SL - SHEET LINOLEUM | SC - SEALED CONCRETE |
| CSV - COVED SHEET VINYL BASE<br>CTB - COVED TILE BASE | GT - GEO TILE (AT ENTRANCE) | PLS - PLASTER | SV - SHEET VINYL | CF - COLOR FINISH |

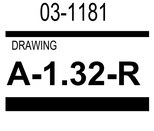
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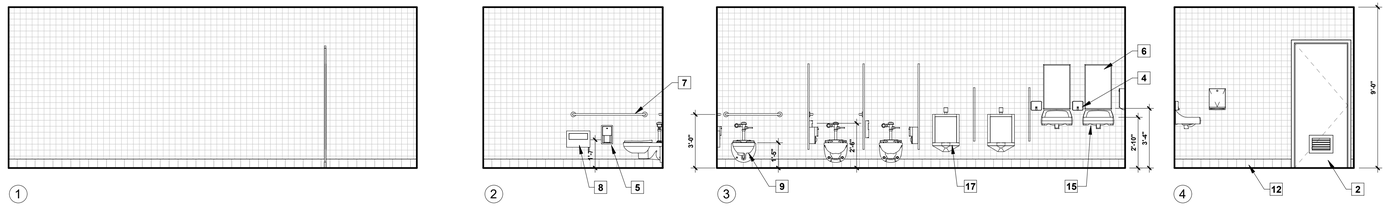
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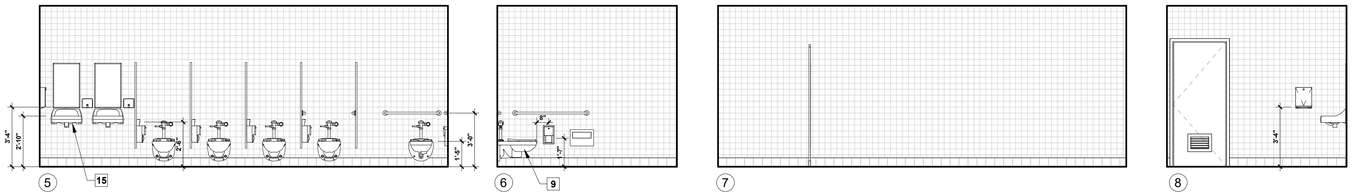
PROJECT NO.
03-1181

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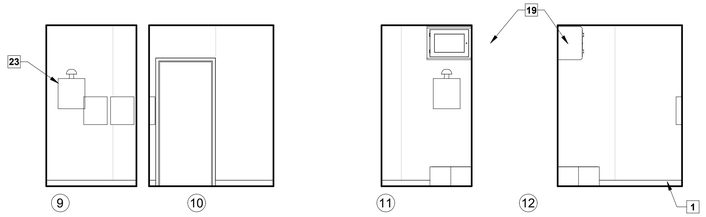
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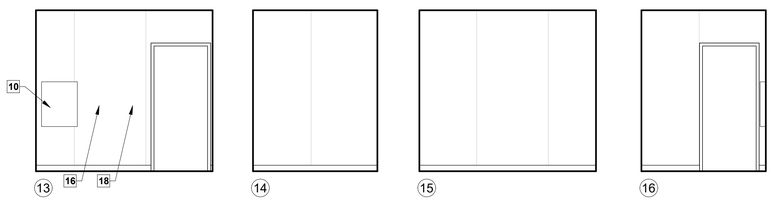

**105 MEN'S TOILET**



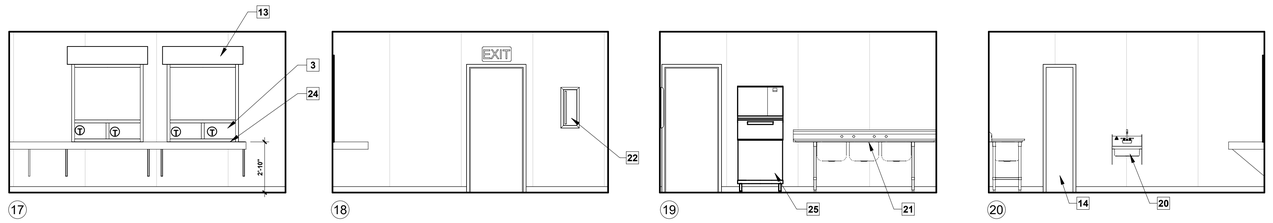

**104 WOMEN'S TOILET**




**103 JANITOR CLOSET**




**102 STORAGE**




**101 CONCESSION**

PLOT DATE:

## KEYNOTES

1. MOP SINK
2. DOOR AND FRAME PER SCHEDULE, TYP - REFER TO A-1.32 (02-118526)
3. SERVICE WINDOW - REFER TO A-1.32 (02-118526)
4. SURFACE MOUNTED SOAP DISPENSER, TYP - REFER TO 6/A-2.20 (02-118526)
5. TOILET PAPER DISPENSER, TYP - SEMI RECESSED REFER TO 6/A-2.20 (02-118526)
6. MIRROR, TYP - REFER TO 6/A-2.20 (02-118526)
7. GRAB BAR, TYP - REFER TO DTL 5/A-2.20 (02-118526)
8. TOILET SEAT COVER DISPENSER, TYP - REFER TO 6/A-2.20 (02-118526)
9. ADA ACCESSIBLE TOILET, TYP - REFER TO 6/A-2.20 (02-118526)
10. ELECTRIC PANEL FLUSH WITH WALL, TYP. - REFER TO 10/E-5.03 (02-118526)
11. PAPER TOWEL DISPENSER, TYP. - REFER TO 6/A-2.20 (02-118526)
12. 6" CERAMIC TILE BASE, TYP.
13. ROLL UP DOOR - REFER TO DETAIL 1,2,6,7/A-6.06
14. CHASE DOOR - REFER TO A/1.32-R
15. ADA ACCESSIBLE LAVATORY, TYP - REFER TO 6/A-2.20 (02-118526)
16. FACP - REFER TO 9/E-5.03 (02-118526)
17. ADA ACCESSIBLE URINAL, TYP - REFER TO 6/A-2.20 (02-118526)
18. SECURITY PANEL - REFER TO 9/E-5.03 (02-118526)
19. IDF PANEL - REFER TO 13/E5.03 (02-118526)
20. HAND SINK - REFER TO PLUMBING FIXTURE SCHEDULE SHEET P5.03
21. 3-COMPARTMENT SCULLERY SINK
22. RECESSED FIRE EXTINGUISHER CABINET REFER TO DETAIL 8/A-6.02 (02-118526)
23. WATER HEATER
24. STAINLESS STEEL COUNTER
25. ICE MAKER

## LEGEND

FRP

CERAMIC WALL TILE

## GENERAL NOTES

1. 1.SEE SHEET A-2.20 FOR ACCESSIBLE MOUNTING HEIGHTS AND OTHER REQUIRED ACCESSIBLE DIMENSIONS (02-118526)
2. REFER TO A-1.15R SCHEDULE FOR RESTROOM ACCESSORY SPECIFICATIONS
3. ALL DIMENSIONS ARE CLEARANCES FROM FINISH MATERIALS
4. MECHANICAL & ELECTRICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS

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DRAWING TITLE
**INTERIOR ELEVATIONS**

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5:17:05 PM

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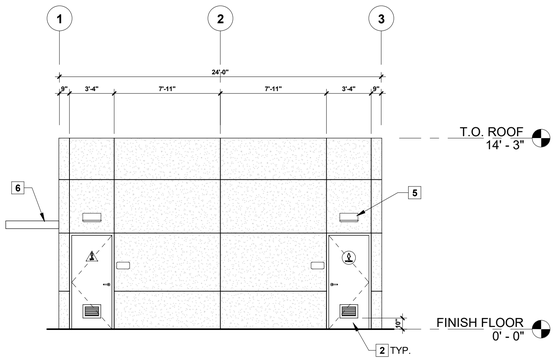
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DRAWING
**A-2.02-R**

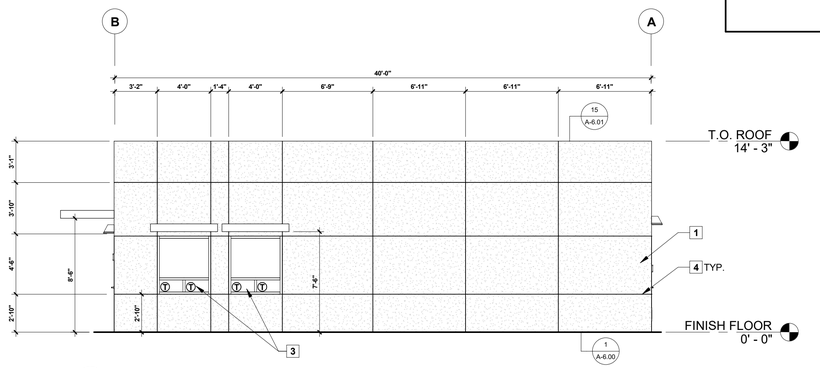
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## KEYNOTES

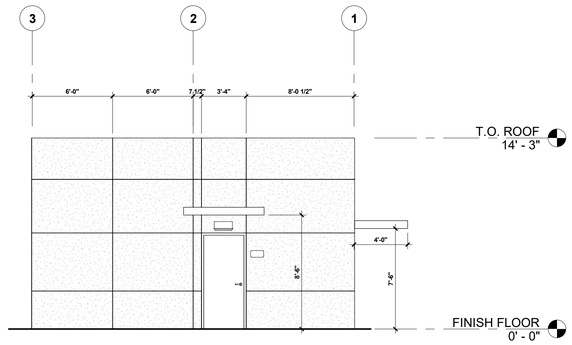
| | |
|---|---|
| 1. | DIRECT APPLIED ELASTOMERIC OVER 1/2" PERMABASE SUBSTRATE - REFER TO DETAIL 16/A-6.00A |
| 2. | DOOR PER SCHEDULE, REFER TO SHEET A-1.32-R |
| 3. | WINDOW PER SCHEDULE, REFER TO A-1.32-R |
| 4. | ELASTOMERIC JOINT, TYP. - REFER TO 17,20/A-6.00 (02-118526) |
| 5. | EXTERIOR LIGHTS - REFER TO ELECTRICAL DRAWINGS |
| 6. | CANOPY TYP. - REFER TO 3/A-6.05 (02-118526) |



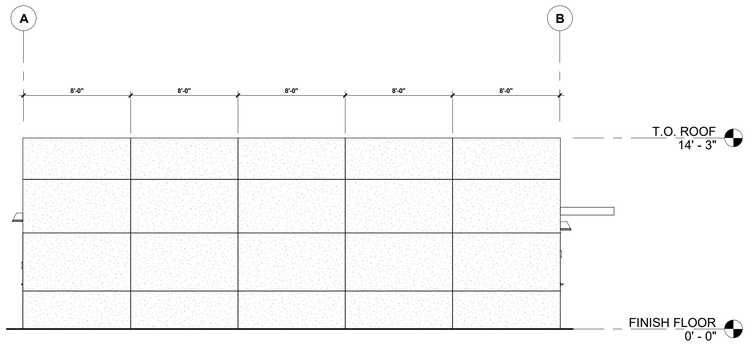

## 2 NORTH
3/16" = 1'-0"




## 1 EAST
3/16" = 1'-0"




## 4 SOUTH
3/16" = 1'-0"




## 3 WEST
3/16" = 1'-0"

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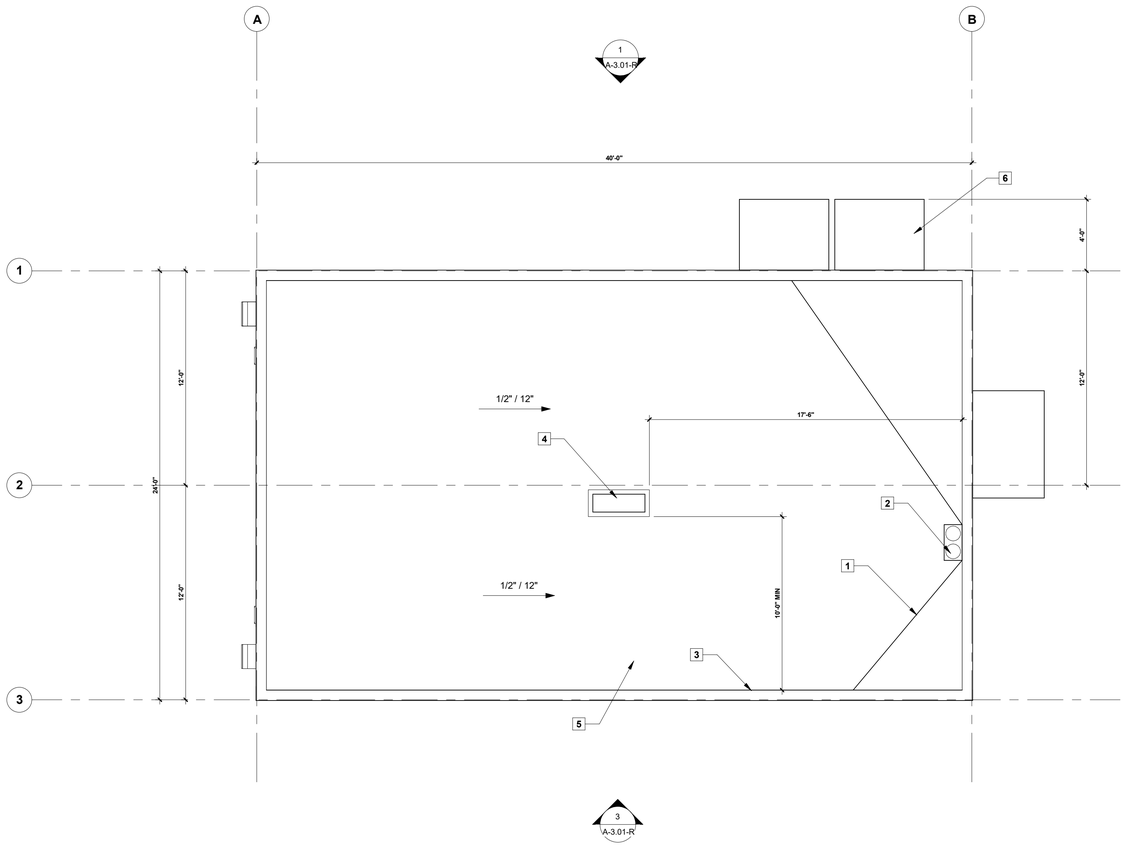
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## ROOF PLAN
1/4" = 1'-0"

| KEYNOTES | |
|---|---|
| 1. | CRICKET - REFER TO DETAIL 15/A-6.01 |
| 2. | ROOF DRAIN - REFER TO DETAIL 16/A-6.02 |
| 3. | PARAPET WALL - REFER TO DETAIL 15/A-6.01 |
| 4. | MECHANICAL UNIT - SEE MECHANICAL DRAWINGS |
| 5. | TPO ROOFING CLASS "A" |
| 6. | CANOPY, TYP. - REFER TO DETAIL 10/A-6.05 (02-118526) |

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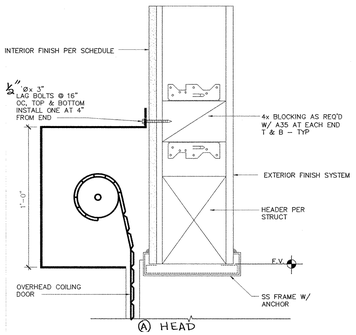
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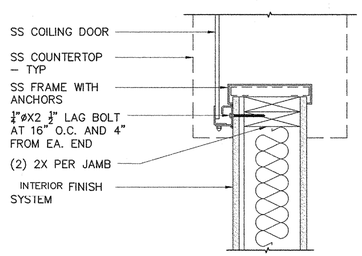
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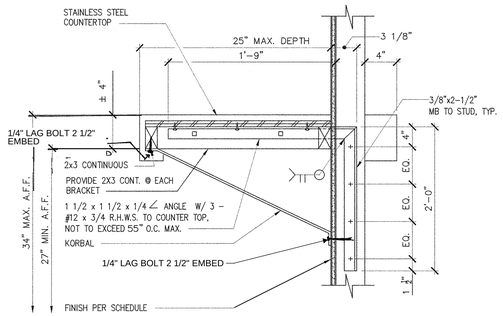
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**A-4.00-R**




1 SCALE: NTS




2 SCALE: NTS

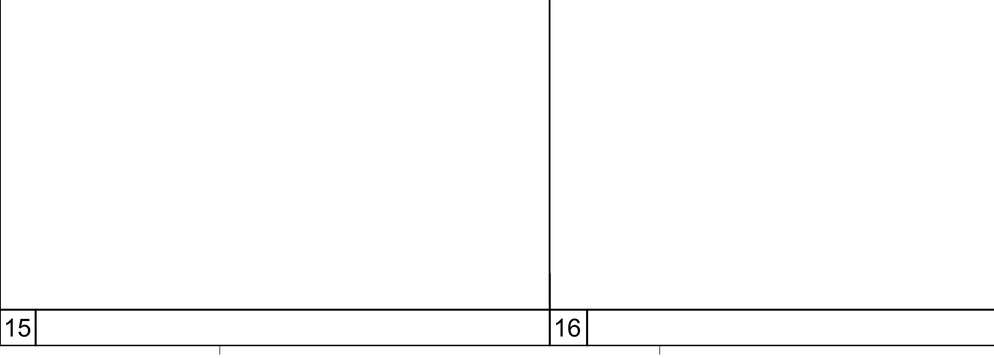



3 STAINLESS STEEL COUNTERTOP SCALE: NTS

4

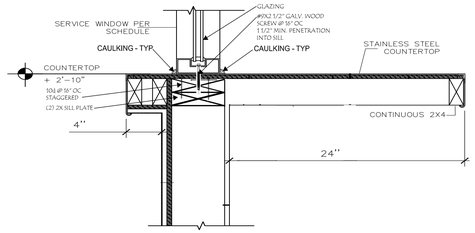



6 BOTTOM BAR / SLAT DETAIL SCALE: NTS




7 PLAN OF OPENING SCALE: NTS

5 SCALE: NTS




9

10

11

12

13

14

15

16 SCALE: NTS

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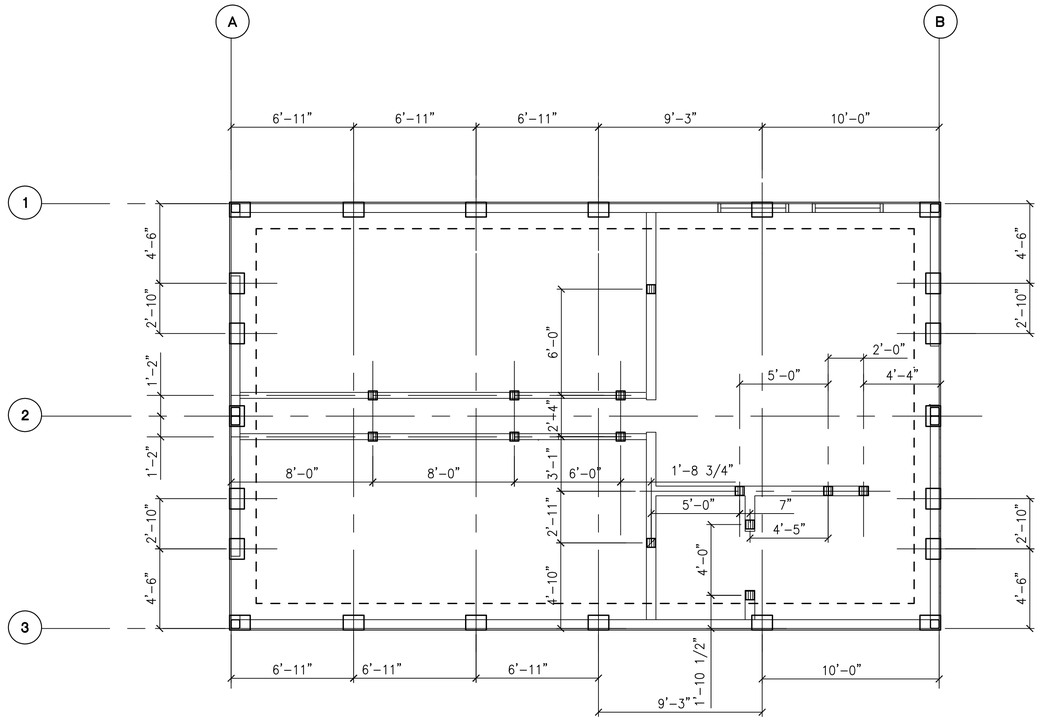
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DRAWING
A-6.06

PLOT DATE: M:\05-10 Master Project File\2022 Projects\03-1181 Kings Canyon - Various Sites\03-1181 Design\2 Working Drawings\CAD Files\A-6.06 DETAILS R-RR.dwg Jan 17 2022 3:45pm




## EMBEDMENT PLAN REEDLEY CONCESSIONS FP - BLDG

SCALE 1/4 = 1'–0"

NORTH

LEGEND:

INDICATES EMBED PER 2 / S6.1

INDICATES EMBED PER 4 / S6.1

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BRIAN J. OMEARA
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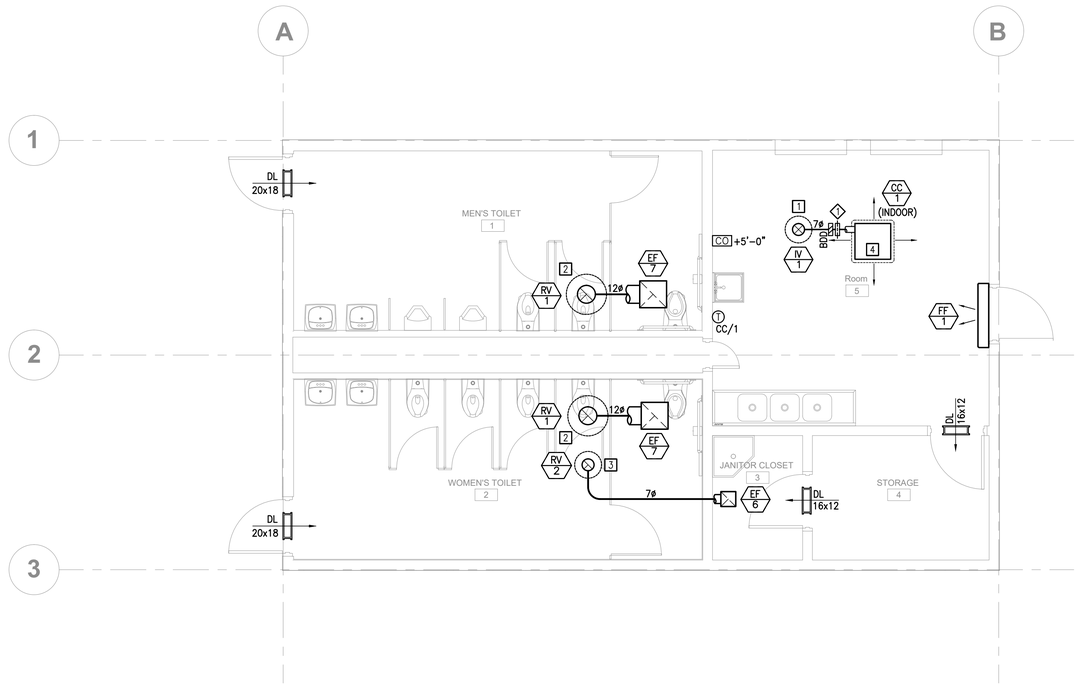
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DRAWING TITLE
EMBEDMENT PLAN

DSA APPLICATION NO.
02-119613

PROJECT NO.
03-1181

DRAWING
S2.1-R




MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

## KEY NOTES (MECH FLOOR PLAN ONLY)

1. 7ø OSA DTR DROP FROM ROOF INTAKE VENTILATOR WITH BDD & OSA VOLUME DPR
2. 12ø EA DTR TO RELIEF CAP
3. 7ø EA DTR TO RELIEF CAP
4. REFRIG PIPING CONNECTIONS TO CEILING MTD CASSETT. FIELD VERIFY FOR ROUTING. SIZE & INSTALL AS PER MFG'RS REC.(TYP)

## OSA SETTINGS

◇1 MS/1: OSA DPR – SET @ 50 CFM

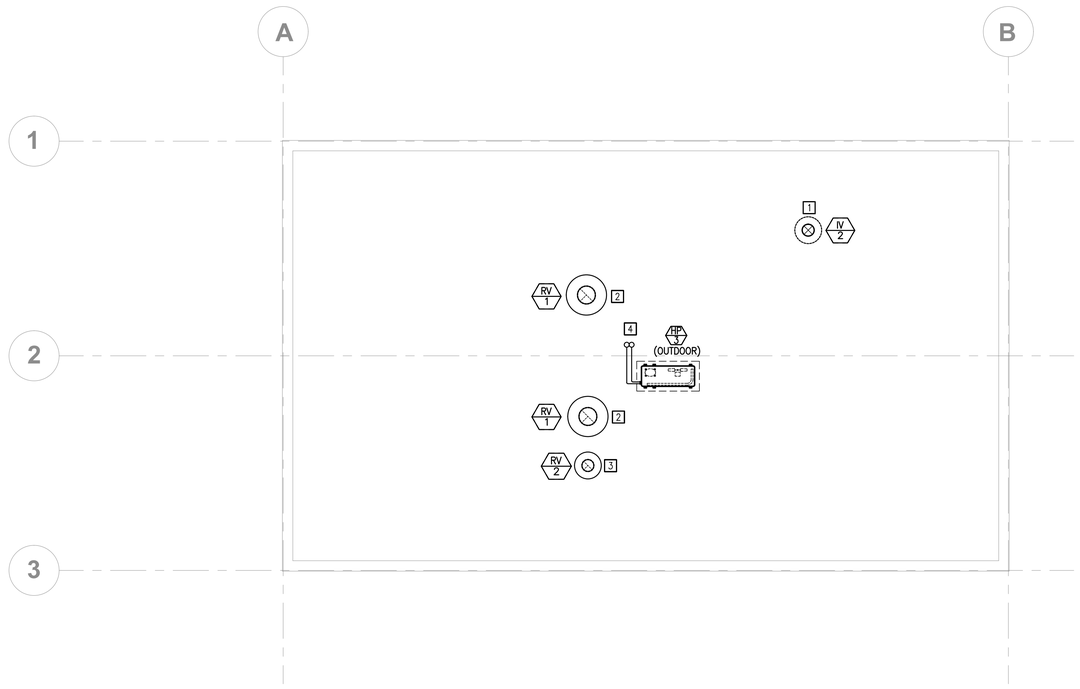
## FLOOR PLAN LEGEND

CO WALL MOUNTED CARBON DIOXIDE MONITOR – HONEYWELL TRANSMISSION RISK AIR MONITOR "HTRAM" CO2 USB PLUG POWERED VISUAL LCD DISPLAY w/ WALL MOUNTED KIT. CO2 LEVEL SET POINT @ 1,100 PPM. INSTALL & WIRED PER MFGR'S REC

## FLOOR PLAN NOTES

LAYOUT EQUIPMENT TO PROVIDE REQUIRED SERVICE & AIR FLOW REQUIREMENTS PER MFGR'S REC–MIN. 24" BETWEEN UNITS CONTRACTOR TO VERIFY (TYP)

ARRANGE EQUIPMENT & DUCT WORK FOR SERVICE CLEARANCE & ACCESS THRU T–BAR CEILING




MECHANICAL ROOF PLAN
SCALE: 1/4" = 1'-0"

## KEY NOTES (MECH ROOF PLAN ONLY)

1. 7ø OSA DTR DROP FROM INTAKE ROOF INTAKE VENTILATOR. BDD & OSA VOLUME DPR
2. 12ø EA DTR TO RELIEF CAP
3. 7ø EA DTR TO RELIEF CAP
4. REFRIG PIPING DROP THRU ROOF. FIELD VERIFY FOR ROUTING TO FAN COILS. SIZE & INSTALL AS PER MFG'RS REC. FLASH & SEAL WATER TIGHT (TYP.)

## ROOF PLAN NOTES

LAYOUT EQUIPMENT TO PROVIDE REQUIRED SERVICE & AIR FLOW REQUIREMENTS PER MFGR'S REC–MIN. 24" BETWEEN UNITS CONTRACTOR TO VERIFY (TYP)

LOCATE EXHAUST DISCHARGES W/ A MIN. 10'–0" AWAY FROM ANY BUILDING OSA INTAKES – COORDINATE W/ ARCHITECTURAL & MECH.

N

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TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET
2/11/22
REGISTERED PROFESSIONAL ENGINEER FRANK J. CANTELMI No. M 28777 MECHANICAL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRIAN J. OBERG No. S 4437 Exp. 12/31/22 STRUCTURAL STATE OF CALIFORNIA


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DRAWING TITLE
MECHANICAL FLOOR & ROOF PLANS

DATE: 2/11/22

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02-119613

PROJECT NO.
03-1181

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M3.01-R

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## MINI SPLIT HEAT PUMP UNITS

| MARK | DESCRIPTION |
|---|---|
| CC 1 (INDOOR) | MITSUBISHI #PLA-A24EA7 COMPACT CEILING CASSETTE UNIT HEAT PUMP SYSTEM 810 CFM – NOM. 24.0 MBH CLG CAP. NOM. 28.0 MBH HTG CAP. – OUTSIDE AIR INTAKE – WIRED PROGRAMMABLE THERMOSTAT T24 APPROVED REMOTE TEMP CONDENSATE LIFT – 1.0 MCA @ 208/230v/1PH – POWERED FROM OUTDOOR UNIT – UNIT WT; 68 LBS – OPERATE WITH HP/3 COMBINED SYSTEM |
| HP 3 (OUTDOOR) | MITSUBISHI #PUZ-A24NHA7 OUTDOOR HEAT PUMP SYSTEM UNIT – 24,000 BTUH COOLING & 26,000 BTUH HEATING @ AHRI RATED CONDITIONS – 24.2 SEER 14.3 EER – 4.35 COP @ 47°F – R410A REFRIG – 19.0 MCA @ 208/230V/1PH, 26.0 MOCP – SIZE & INSTALL REFRIG. PIPING PER MFGR'S REC. – 180 LBS OPERATE WITH CC/1 |

## EXHAUST FANS

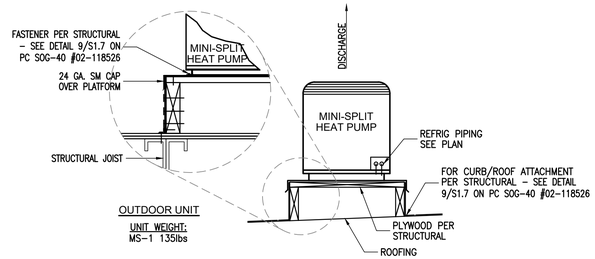
| MARK | DESCRIPTION |
|---|---|
| EF 6 | GREENHECK #SP-A190 CEILING EXHAUST FAN – SET @ 100 CFM @ .25" SP BACKDRAFT DAMPER – 1.3 AMPS @ 120v – SPEED CONTROLLER MTD. IN FAN – INTERLOCK CONTINUOUS OPERATION WITH MINI-SPLIT (OR EQUAL) |
| EF 7 | GREENHECK #SP-A510 CEILING EXHAUST FAN – SET @ 350 CFM @ .38" SP BACKDRAFT DAMPER – 3.3 AMPS @ 120v – SPEED CONTROLLER MTD. IN FAN – INTERLOCK w/LIGHTING (OR EQUAL) |

## FLY FAN UNIT SCHEDULE

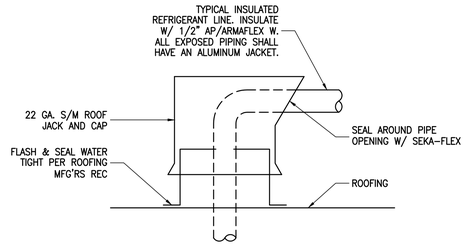
| MARK | DESCRIPTION |
|---|---|
| FF 1 | MARS #STD236-1U-OB DOOR AIR CURTAIN – DOWN BLAST – 36" NOZZLE LENGTH – 1379 CFM @ 2206 FPM –MAGNETIC DOOR SWITCH – 1/2 HP 5.1 AMPS @ 115v/1ph – 60 LBS – MOUNT @ +7'AFF |

## INTAKE VENTILATOR

| MARK | DESCRIPTION |
|---|---|
| IV 2 | BROAN #611 ROOF CAP 8"ø – FLASH & SEAL WATER TIGHT WITH FLAT OR CURB MOUNT INSTALLATION PER METAL ROOFING INSTALLATION INSTRUCTIONS – 9LBS – OR EQUAL – SEE DETAIL 5/M5.01 |

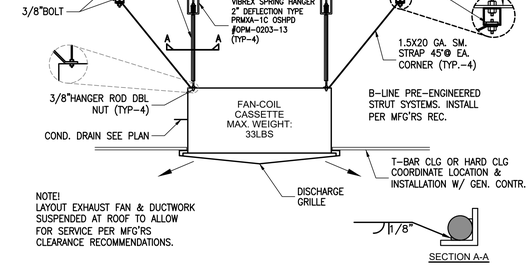



## 1 HEAT PUMP UNIT MTG – TYP.
NTS

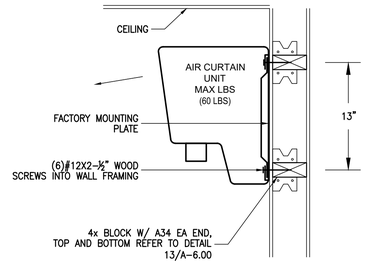



REFRIG PIPING DROPS THRU ROOF. FIELD VERIFY FOR ROUTING TO FAN COILS. SIZE & INSTALL AS PER MFG'RS REC. FLASH & SEAL WATER TIGHT. PIPING TO BE SUPPORTED PER 2016 CMC SECTION 1109.6. (TYP)

## 2 REFRIG PIPING THRU ROOF – TYP.
NTS




## 3 CEILING CASSETTE MTG
NTS




## 4 DOOR FLY FAN MTG – FF.1
NTS

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2/11/22
REGISTERED PROFESSIONAL ENGINEER FRANK J. CANTELMI CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRIAN J. OBERTI No. S 44372 EXP. 12/31/22 STRUCTURAL STATE OF CALIFORNIA

NEW MODULAR RESTROOMS / STORAGE BUILDING
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KINGS CANYON UNIFIED SCHOOL DISTRICT
740 W NORTH AVE, REEDLEY, CA 93654

DRAWING TITLE
MECHANICAL DETAILS & SCHEDULES

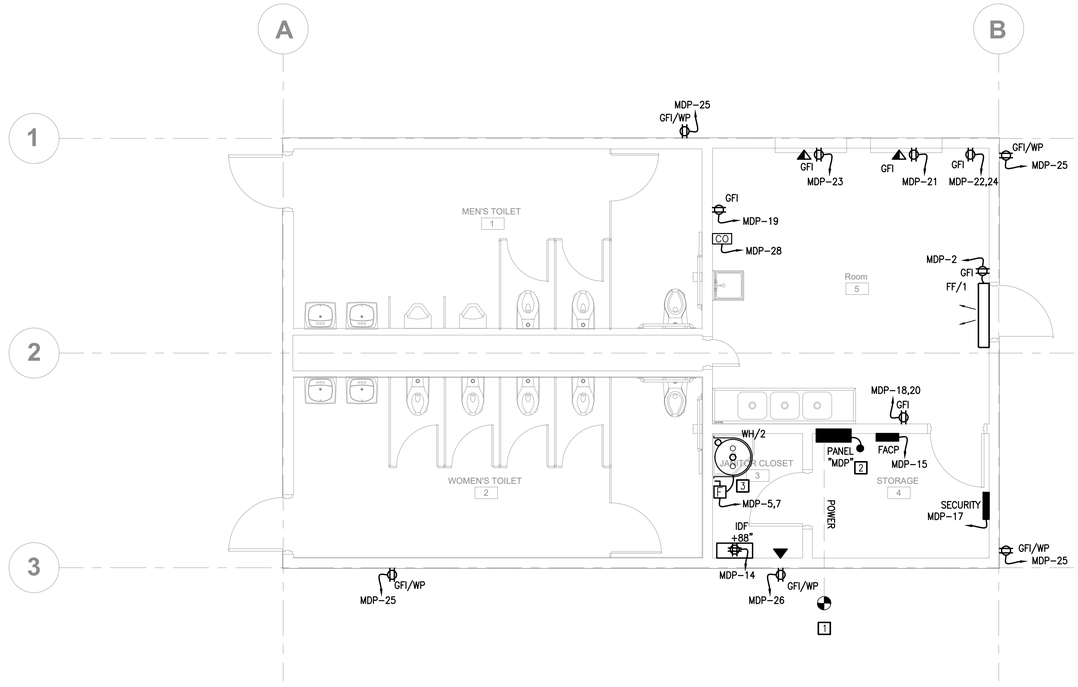
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PROJECT NO.
03-1181

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M5.03

file: S:\DWGS2022\JTS\REEDLEY RESTROOM C22-002\C22-002 REEDLEY MECH_REV1.dwg DATE: 12/22/2021 9:44 AM

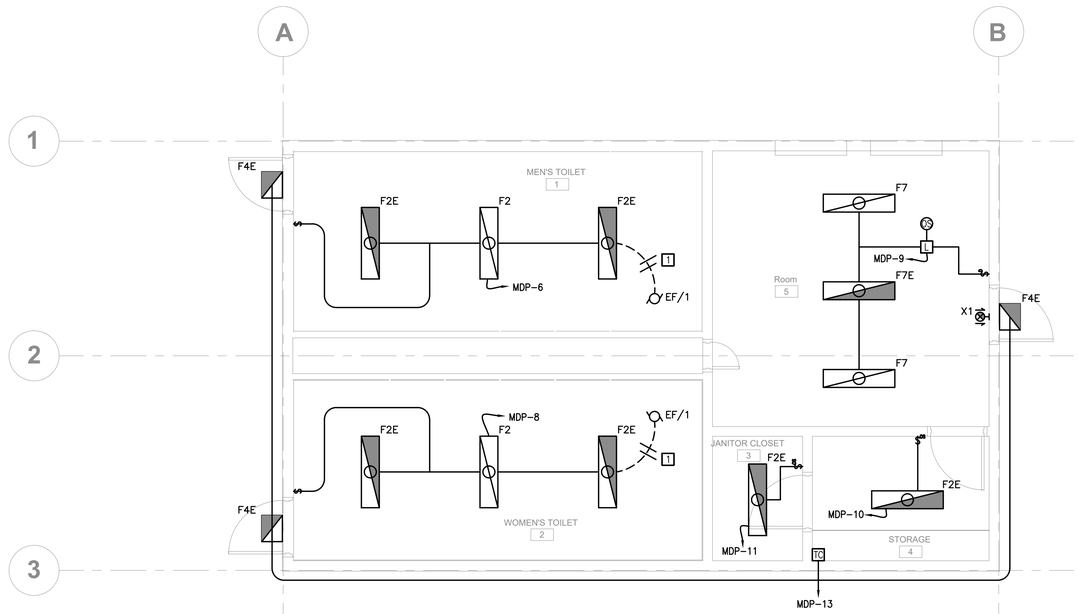



ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"

| POWER KEYNOTES |
|---|
| 1 POC – CONNECTION BY SITE CONTRACTOR |
| 2 UFER GROUND |
| 3 LIQUID TIGHT FLEXIBLE MC |

| POWER NOTES |
|---|
| GFI REC 6'–0" FROM WATER SOURCE |
| ALL 20A, 120V RECEPTACLES SHALL BE LISTED TAMPER RESISTANT |

| POWER LEGEND |
|---|
| F 600V RATED NEMA 3R HEAVY DUTY 30A MOCP DISC. |
| CO WALL MOUNTED CO2 MONITOR POWERED THRU WALL USB OUTLET – INSTALL & WIRED PER MFGR'S REC |




ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"

| LIGHTING KEYNOTES |
|---|
| 1 INTERLOCK EXHAUST FAN W/ LIGHTS VIA A RELAY |

| LIGHTING NOTES |
|---|
| CONTROL INTERIOR LIGHTS W/ OCCUPANCY SENSOR & DIMMER SWITCH |
| PHOTOSENSORS & OCCUPANCY SENSORS CONNECTED TO RELAY BOX W/ INDIVIDUAL RUNS |

| LIGHTING LEGEND |
|---|
| TC WIRE ALL OUTDOOR LIGHTS TO ASTRONOMICAL ELECTRONIC TIME CLOCK |
| EXHAUST FAN – REFER TO MECHANICAL PLANS |

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REGISTERED PROFESSIONAL ENGINEER
BRIAN J. OTTEN
No. S 4437
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DRAWING TITLE
ELECTRICAL POWER & LIGHTING PLANS

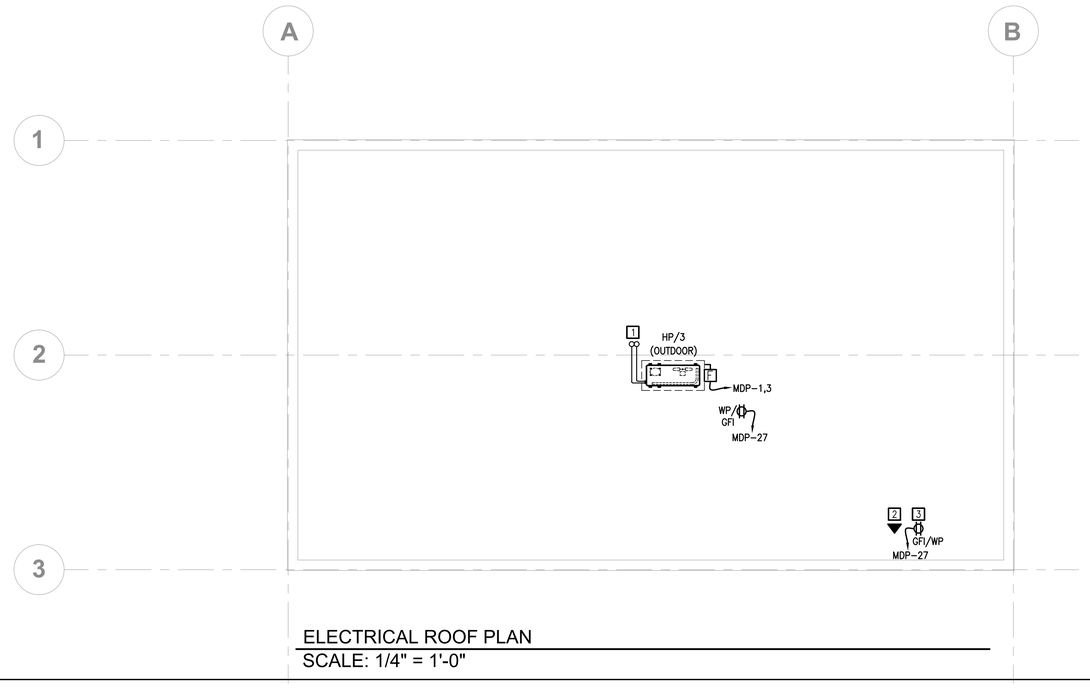
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E3.01-R

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ELECTRICAL ROOF PLAN
SCALE: 1/4" = 1'-0"

| ROOF KEYNOTES | |
|---|---|
| 1 | 3/4"C. TO POWER INDOOR UNIT |
| 2 | WEATHERPROOF ANTENNA DATA OUTLET ON ROOF – SEE SITE PLANS FOR COORDINATION |
| 3 | WEATHERPROOF GFI SERVICE REC ON ROOF |

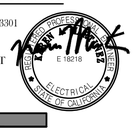
| ROOF LEGEND | |
|---|---|
| F | 600V RATED NEMA 3R HEAVY DUTY 30A MOCP DISC. |




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## LIGHT FIXTURE SCHEDULE

VOLTAGE: UNV (U.O.N.)

| TYPE | INPUT WATTS | DESCRIPTION AND MANUFACTURER | REMARKS |
|---|---|---|---|
| F7 | 47 | 1X4 EXTREME ENVIRONMENT / LED<br>LED ENCLOSED & GASKETED<br>VOLTAGE: UNV<br>LAMP: LED – 6222 LUMENS<br>MANUFACTURER: COLUMBIA LIGHTING #LXEM4–40HL–RFA–EDU | *F7E DESIGNATES EMERGENCY BALLAST FIXTURE ELL14 w/ 90 MIN. BATTERY BACK–UP<br>*VERIFY FINISH w/ ARCHITECT<br>*WEIGHT: 12 LBS<br>*REFER TO MOUNTING DETAIL |

* ALL EXTERIOR LIGHT FIXTURES SHALL BE DARK SKY COMPLIANT AND SHALL NOT EXCEED BUG RATING REQUIREMENTS AS SHOWN IN TABLE 5.106.8 OF THE CALIFORNIA ENERGY CODE.

**NOTE:**

**REFER TO SHEETS E5.03 & E5.04 PC #02-118526 REGARDING ADDITIONAL ELECTRICAL EQUIPMENT SCHEDULE AND DETAILS**

## PANEL MDP

SERVICE: 120/208V 3ϕ 4W | MAIN BREAKER: 200A | BUS: 200A | LOCATION: SEE PLAN

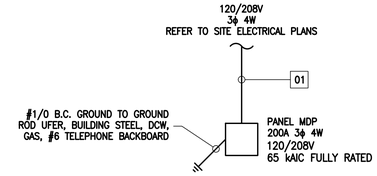
PANELBOARD | MOUNTING:

| REMARKS: | LOAD ϕA | LOAD ϕB | LOAD ϕC | TRIP | POLE | WIRE | CIRCUIT | CIRCUIT | WIRE | POLE | TRIP | LOAD ϕA | LOAD ϕB | LOAD ϕC | REMARKS: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HP/3 | 2,300 | | | 30 | | 8 | 1 | 2 | 12 | 1 | 20 | 1,000 | | | FF/1 |
| ↓ | | 2,300 | | | 2 | 8 | 3 | 4 | 12 | 1 | 20 | | | | SPARE |
| WH/2 | | | 3,000 | 40 | | 6 | 5 | 6 | 12 | 1 | 20 | | | 200 | RR LIGHTS |
| ↓ | 3,000 | | | | 2 | 6 | 7 | 8 | 12 | 1 | 20 | 200 | | | RR LIGHTS |
| CONCESSION LIGHTS | | 200 | | 20 | 1 | 12 | 9 | 10 | 12 | 1 | 20 | | 150 | | STORAGE LIGHTS |
| JANITOR LIGHTS | | | 100 | 20 | 1 | 12 | 11 | 12 | 12 | 1 | 20 | | | 20 | EMERGENCY SIGN |
| OUTDOOR LIGHTS | 100 | | | 20 | 1 | 12 | 13 | 14 | 12 | 1 | 20 | 400 | | | IDF |
| ** FIRE ALARM ** | | 200 | | 20 | 1 | 12 | 15 | 16 | 12 | 1 | 20 | | | | SPARE |
| SECURITY | | | 200 | 20 | 1 | 12 | 17 | 18 | 6 | | 50 | | | 1,500 | ICE MACHINE |
| FRIDGE | 1,500 | | | 20 | 1 | 12 | 19 | 20 | 6 | 2 | | 1,500 | | | ↓ |
| CASH REGISTER | | 1,500 | | 20 | 1 | 12 | 21 | 22 | 6 | | 40 | | 1,500 | | WARMER |
| CASH REGISTER | | | 1,500 | 20 | 1 | 12 | 23 | 24 | 6 | 2 | | | | 1,500 | ↓ |
| WP/GFI RECS | 800 | | | 20 | 1 | 12 | 25 | 26 | 12 | 1 | 20 | 200 | | | WP/GFI REC |
| WP/GFI REC | | 400 | | 20 | 1 | 12 | 27 | 28 | 12 | 1 | 20 | | 200 | | CO2 MONITOR |
| SPARE | | | | 20 | 1 | 12 | 29 | 30 | 12 | 1 | 20 | | | | SPARE |
| SPARE | | | | 20 | 1 | 12 | 31 | 32 | 12 | 1 | 20 | | | | SPARE |
| SPARE | | | | 20 | 1 | 12 | 33 | 34 | 12 | 1 | 20 | | | | SPARE |
| SPARE | | | | 20 | 1 | 12 | 35 | 36 | 12 | 1 | 20 | | | | SPARE |
| SPARE | | | | 20 | 1 | 12 | 37 | 38 | 12 | 1 | 20 | | | | SPARE |
| SPARE | | | | 20 | 1 | 12 | 39 | 40 | 12 | 1 | 20 | | | | SPARE |
| SPARE | | | | 20 | 1 | 12 | 41 | 42 | 12 | 1 | 20 | | | | SPARE |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TOTAL CONNECTED LOADS: | 7,700 | 4,600 | 4,800 | | 3,300 | 1,850 | 3,220 | TOTAL CONNECTED LOADS: |
| PHASE A: | 11,000W | | | | MINIMUM BKR A.I.C. RATING: | | | 65KV |
| PHASE B: | 6,450W | | | NOTES: | | | | |
| PHASE C: | 8,020W | | | * REFER TO SINGLE LINE FOR SIZE | | | | |
| TOTAL WATTS: | 25,470W | | | ** RED LOCKED DEDICATED CIRCUIT ACCESSIBLE TO AUTHORIZED PERSONNEL ONLY – BREAKER TO BE PERMANENTLY IDENTIFIED AT FIRE ALARM CONTROL UNIT | | | | |
| TOTAL AMPS: | 70.7A | | | | | | | |

## FEEDER SCHEDULE

| NUMBER | AMPS | CONDUCTORS PER CONDUIT (THHN/THWN. CU) CONDUIT | 3ϕ 4W (C) | PULL LINE (E) | GROUNDING (THHN/THWN) COPPER |
|---|---|---|---|---|---|
| 01 | CONDUIT BY SITE ELECTRICAL CONTRACTOR – SEE SITE ELECTRICAL DRAWINGS | | | | |




1 SINGLE LINE DIAGRAM
NTS

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BRIAN J. ORTEGA No. S 4437 REG. 12/31/22 STRUCTURAL STATE OF CALIFORNIA


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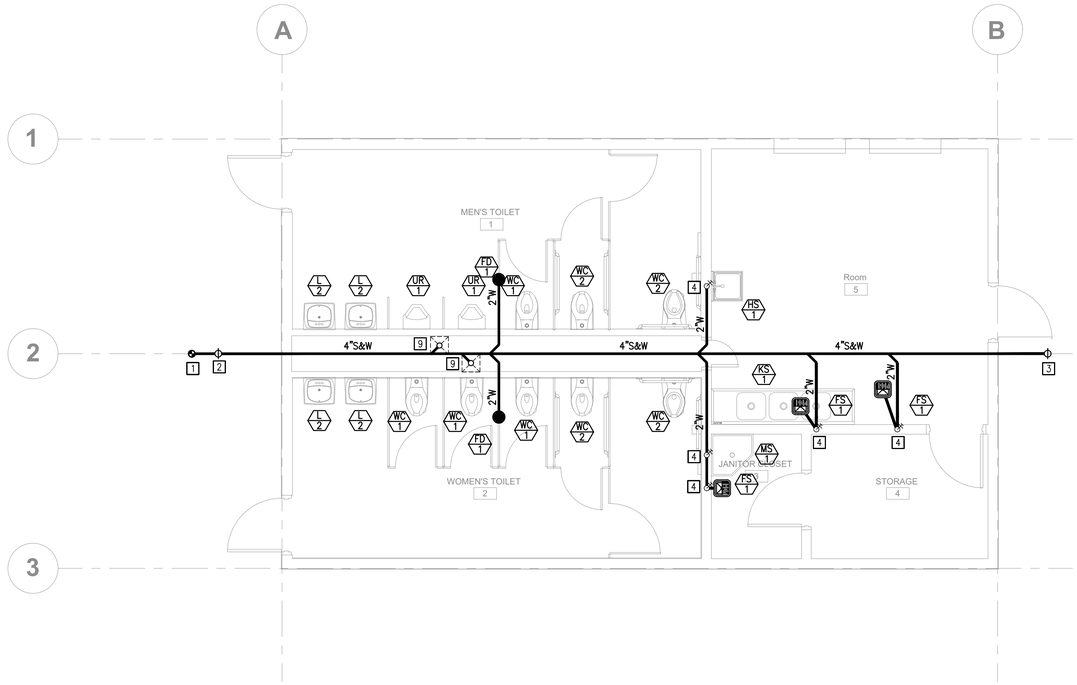
## WASTE SERVICE CALCULATION

FIXTURE UNITS – CPC TABLE 702.1

| FIXTURE | NO. | UNIT | TOTAL |
|---|---|---|---|
| TOILET(FV,1.28 GPF) | 8 | 4.0 | 32.0 |
| URINAL (FV,1.0 GPF) | 2 | 2.0 | 4.0 |
| LAVATORY | 4 | 1.0 | 4.0 |
| HAND SINK | 1 | 2.0 | 2.0 |
| 3-COMP SINK | 1 | 2.0 | 2.0 |
| MOP SINK | 1 | 3.0 | 3.0 |
| FLOOR DRAIN | 2 | 2.0 | 4.0 |
| FLOOR SINK | 3 | 2.0 | 6.0 |

| | |
|---|---|
| TOTAL FIXTURE UNITS | 58.0 |
| MAIN LINE SIZE - CPC TABLE 703.2 | 4" |
| BASED ON SLOPE | 1/4"/FT |

FV – FLUSH VALVE
GT – GRAVITY TANK
GPF – GALLONS PER FLUSH




PLUMBING FLOOR PLAN - SOIL & WASTE (BELOW FINISHED FLOOR)
SCALE: 1/4" = 1'-0"

## SOIL & WASTE KEYNOTES

(THIS SHEET ONLY)

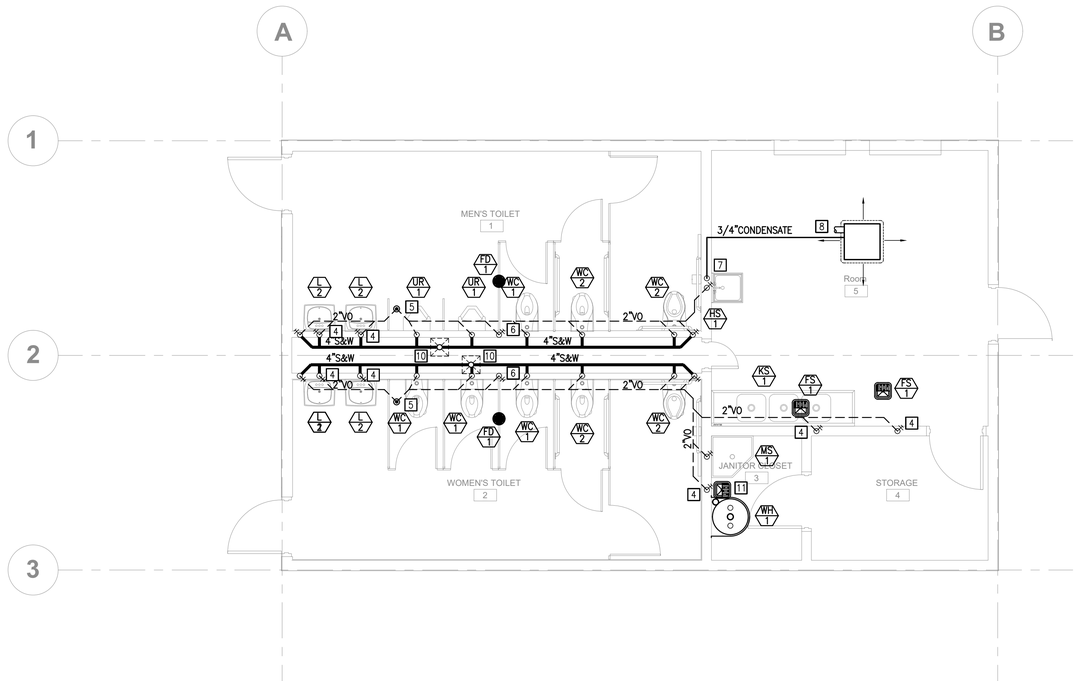
1. UNDER SLAB PLUMBER TO STUB OUT S&W 5'-0" BEYOND BLDG – CONNECTION BY SITE PLUMBER – VERIFY LOCATION & INVERT SEE SITE PLUMBING DWGS
2. 2 WAY BACK-TO-BACK TEE/WYE – 4"COTG
3. 4"COTG
4. 2"WCO
5. 3"VTR – LOCATE A MIN 10'-0" AWAY FROM OSA INTAKES, COORDINATE W/ MECH
6. 2"VENT RISER IN WALL TO ATTIC FROM FD/1
7. 3/4"CONDENSATE DRAIN TO DROP IN WALL TO LAV – CONNECT TO LAVATORY TAILPIECE
8. 3/4"CONDENSATE DRAIN CONNECTION TO CEILING MTD CASSETTE PER MFG'RS REC.
9. 4"S&W DROP FROM ABOVE FLOOR TO BELOW
10. 4"S&W DROP TO BELOW FLOOR
11. 3/4"T&P DROP IN WALL – SPILL AT FS/1 W/ TURNED DN. ELBOW

## SEWER & WASTE NOTES

2"WCO BELOW EVERY LAVATORY & SINK

2"WCO ABOVE EVERY URINAL

UNDER SLAB PLUMBER TO FURNISH & INSTALL BELOW FINISHED FLOOR PLUMBING – COORDINATE w/ ABOVE FINISHED FLOOR PLANS AND STUB OUT 4" HIGH ABOVE FINISH FLOOR AT EACH POINT OF CONNECTION




PLUMBING FLOOR PLAN - SOIL, WASTE & VENT (ABOVE FINISHED FLOOR)
SCALE: 1/4" = 1'-0"

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2/11/22

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REGISTERED PROFESSIONAL ENGINEER BRIAN J. OBERG No. S 4437 Exp. 12/31/22 STRUCTURAL STATE OF CALIFORNIA

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PLUMBING FLOOR PLANS - SOIL, WASTE & VENT (BELOW & ABOVE FINISHED FLOOR)

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## WATER SERVICE CALCULATION

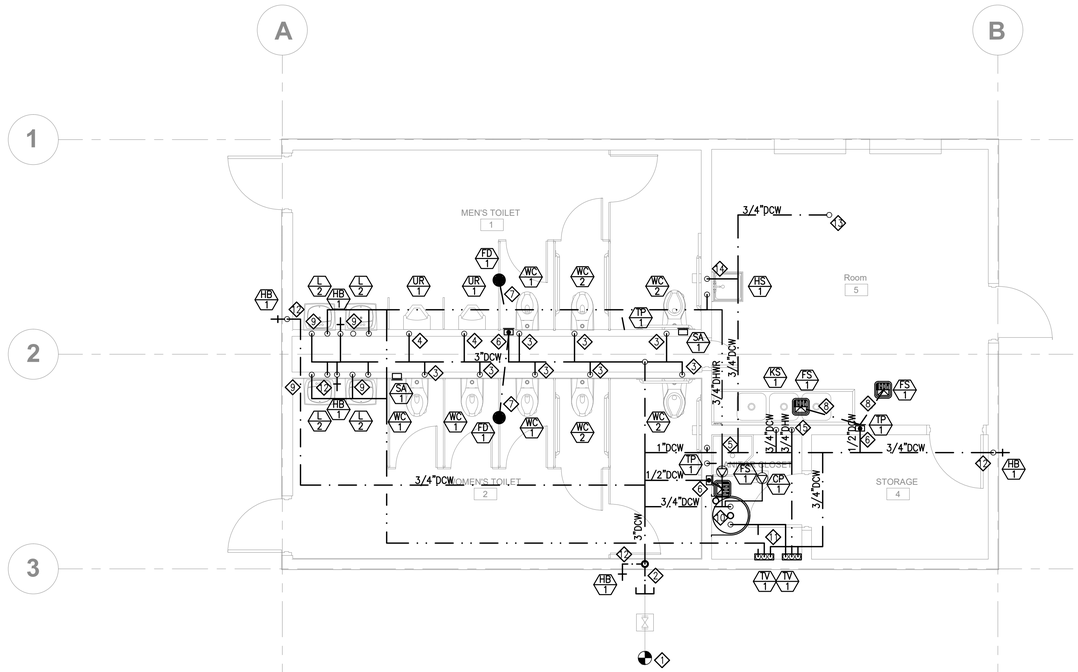
FIXTURE UNITS – CPC TABLE 610.3 & 610.10

| FIXTURE | NO. | UNIT | TOTAL |
|---|---|---|---|
| TOILET(FV,1.28 GPF) | 8 | * | 145.0 |
| URINAL (FV,1.0 GPF) | 2 | * | 35.0 |
| LAVATORY | 4 | 1.0 | 4.0 |
| HAND SINK | 1 | 2.0 | 2.0 |
| 3-COMP SINK | 1 | 3.0 | 3.0 |
| MOP SINK | 1 | 3.0 | 3.0 |
| HOSE BIBB | 1 | 2.5 | 2.5 |
| HOSE BIBB (ADDITIONAL) | 4 | 1.0 | 4.0 |
| ICE MACHINE | 1 | 2.0 | 2.0 |

| | |
|---|---|
| TOTAL FIXTURE UNITS | 200.5 |
| GALLONS PER MIN. (GPM) 103.1(1) & 103.1(2) | 90 |
| MAIN LINE SIZE - CPC CHART 105.1(3) | 3" |
| SITE WATER MAIN STATIC PRESSURE | 60 LBS |

FV – FLUSH VALVE
GT – GRAVITY TANK
GPF – GALLONS PER FLUSH
* – PER CPC TABLE 610.10

CPC 2019 SECTION 610.12.1
8 FOOT PER SECOND COLD WATER
5 FOOT PER SECOND HOT WATER



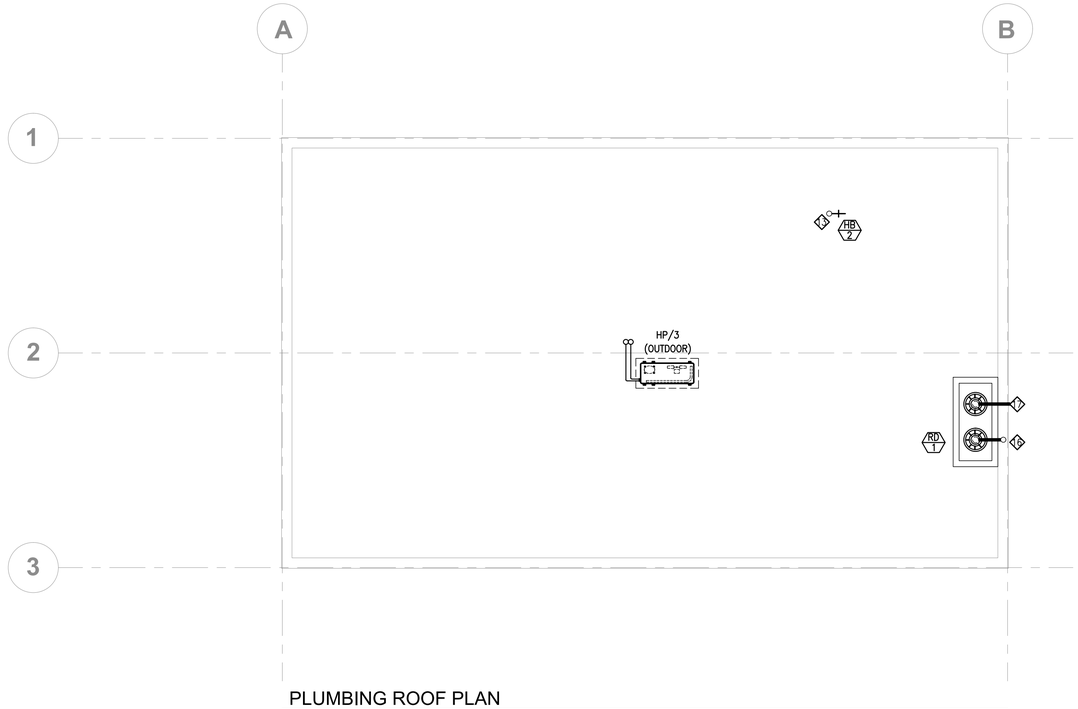

PLUMBING FLOOR PLAN - DCW/DHW
SCALE: 1/4" = 1'-0"

## DCW & DHW KEYNOTES

(THIS SHEET ONLY)

1. DCW TO BUILDING & SOV IN YARD BOX BY SITE CONTRACTOR – COORDINATE LOCATION – SEE SITE PLUMBING DWGS
2. 3"DCW RISER IN WALL TO ATTIC – STUB OUT OF BUILDING & CAP FOR CONNECTION BY SITE CONTRACTOR
3. 1-1/4"DCW DROP IN WALL TO WC/1 OR WC/2
4. 1"DCW DROP IN WALL TO UR/1.
5. 3/4"DCW & 3/4"DHW DROP IN WALL TO MS/1 @ 140°F
6. 1/2"DCW DROP IN WALL TO TP/1
7. 1/2"TP LINE BELOW FLOOR TO FD/1
8. 1/2"TP LINE BELOW FLOOR TO FS/1
9. 1/2"DCW & 1/2"DHW DROP IN WALL TO L/1
10. 3/4"DCW & 3/4"DHW CONNECTIONS @ WH/1
11. 3/4"DCW & 3/4"DHW CONNECTIONS TO TV/1
12. 3/4"DCW DROP IN WALL TO HB/1
13. 3/4"DCW RISER THRU ROOF TO NON-FREEZE HB/2 @ ROOF
14. 3/4"DCW & 3/4"DHW DROP IN WALL TO HS/1
15. 3/4"DCW & 3/4"DHW DROP IN WALL TO KS/1 @ 140°F
16. 4"ROOF DRAIN CONNECT TO STORM DRAIN – SEE CIVIL DRAWINGS
17. 4"OVERLFOW DRAIN TO SPILL AS HIGH AS POSSIBLE

NOTE:
1. MOP SINK SHALL BE PLUMBED WITH HOT WATER @ 140° AND COLD WATER SUPPLY.
2. HAND SINK AND LAVATORIES SHALL HAVE WARM WATER SUPPLY THROUGH METERING FAUCET.
3. 3 COMPARTMENT SINK SHALL BE PLUMBED WITH HOT WATER @ 140°F AND COLD WATER SUPPLY.




PLUMBING ROOF PLAN
SCALE: 1/4" = 1'-0"

IDENTIFICATION STAMP
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APP: 02-119613 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022
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FILE # APPLICATION #


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2/23/22


REGISTERED PROFESSIONAL ENGINEER RYAN I. CANTELMI No. M 27307 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER RYAN I. CANTELMI No. S 4437 EXP. 12/31/22 STRUCTURAL STATE OF CALIFORNIA

NEW MODULAR RESTROOMS / STORAGE BUILDING
REEDLEY HIGH SCHOOL
KINGS CANYON UNIFIED SCHOOL DISTRICT
740 W NORTH AVE, REEDLEY, CA 93654

DRAWING TITLE
PLUMBING FLOOR PLAN - DCW/DHW & PLUMBING ROOF PLAN

DATE: 2/23/22

DSA APPLICATION NO.
02-119613

PROJECT NO.
03-1181

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P1.06


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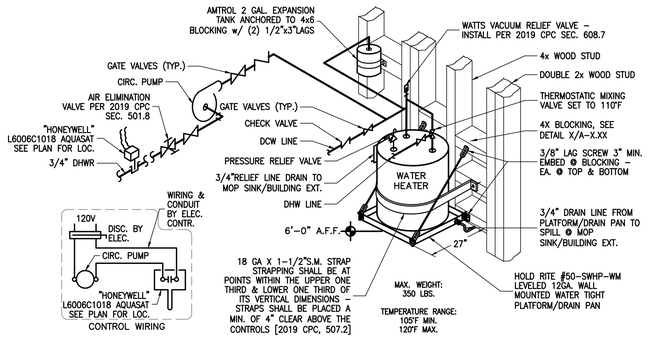
## PLUMBING FIXTURE SCHEDULE

| MARK | FIXTURE | DCW | DHW | S&W | TRAP | VENT | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| HS-1 | HAND SINK | 3/4" | 3/4" | 2" | 1-1/2" | 2" | JUST #CWH-2524 25"X24"X6" SINGLE COMPARTMENT TYPE 304 STAINLESS STEEL SINK – JUST #J-1176-KS-M-VR GOOSENECK SPOUT @ MAX. +36" A.F.F & MAX. 5" FROM FRONT EDGE OF COUNTERTOP W/ VANDAL AERATOR AND VANDAL WRIST BLADE HANDLES RESISTANT – JUST #JSB-10-VR 304 STAINLESS STEEL BUBBLER – JUST #J-ADA-35-SSF-VR STAINLESS STEEL GRID & P-TRAP – LAV GUARD2 #102 E-Z PIPING COVER INSULATE WATER SUPPLY & 'P' TRAP – CHICAGO #122-ABNF MIXING VALVE IN RECESSED WALL BOX W/ LOCKING HINGED COVER, VALVE SHALL BE ADJUSTED TO DELIVER A MAXIMUM OF 110°F |
| WH-1 2 | WATER HEATER | 3/4" | 3/4" | – | – | – | PATRIOT #PCE 30 20LSA ELECTRIC WATER HEATER 30 GAL – 6 kw – 28.8 FLA @208v/1@ 100lbs OPERATING WEIGHT (VERIFY SITE VOLTAGE PRIOR TO ORDERING) – W/ HOLD RITE QUICK STAND #50-SWHP-WM – AMTROL ST-5 THERMAL EXPANSION TANK (OR EQUAL) |
| FH-1 2 | FREEZELESS ROOF HYDRANT | 3/4" | – | – | – | – | WOODFORD #SRH-MS – NON-FREEZE ROOF HYDRANT NO DRAIN LINE REQUIRED – DUAL CHECK HYDRANT |
| TV-1 2 | TEMP CONTROL VALVE | 3/4" | 3/4" | – | – | – | SYMMONS #7-200-W TEMPCONTROL VALVE THERMOSTATIC MIXING VALVE – 3/4"INLETS AND 3/4"OUTLET – SWIVEL ACTION CHECK STOPS – REMOVABLE CARTRIDGE WITH VOLUME CONTROL SHUT-OFF VALVE – DIAL THERMOMETER – STAINLESS STEEL PISTON AND LIQUID FILL THERMAL MOTOR BELLOWS ELEMENT MOUNTED OUT OF WATER – STD. ROUGH BRONZE FINISH – WALL MOUNTING BRACKET VACUUM BREAKER – VALVE SHALL BE ADJUSTED TO DELIVER A MAXIMUM OF 140°F |
| KS-1 | 3-SINK | 3/4" | 3/4" | 2" | 1-1/2" | 2" | ADVANCE TABCO #94-63-54-18RL 18"X24"X18" THREE COMPARTMENT 14GA. TYPE 304 STAINLESS STEEL SINK – ADVANCE TABCO #K-40 TWIST HANDLE DRAINS – THREE CHICAGO 1.5GPM FAUCET #445-L12E35ABCP |
| CP-1 2 | CIRCULATING PUMP | – | 3/4" | – | – | – | GRUNDFOS #UPS15-55SFC STAINLESS STEEL DOMESTIC HOT WATER IN-LINE CIRCULATING PUMP – FLANGED CONNECTIONS – 3-SPEED MOTOR – INTEGRAL CHECK VALVE – 5GPM @ 13'-0" – 1/12 HP – 120V/1PH |

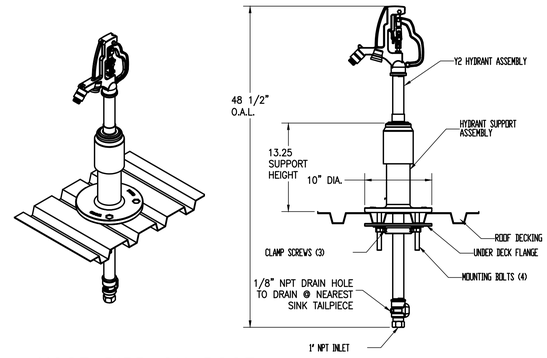
**NOTE:**

**ALL PLUMBING FIXTURES SHALL MEET 2019 CALGREEN MANDATORY MEASURES MAXIMUM FLOW RATE AT 20% REDUCTION PER TABLE 5.303.2.3**

**REFER TO PC #02-118526 REGARDING PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL FIXTURES**




1 WATER HEATER MTG/PIPING
NTS




2 HOSE BIBB ON ROOF
NTS


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2/11/22
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REGISTERED PROFESSIONAL ENGINEER BRIAN J. CANTELMI No. S 4437 Exp. 12/31/22 STRUCTURAL STATE OF CALIFORNIA


NEW MODULAR RESTROOMS / STORAGE BUILDING
REEDLEY HIGH SCHOOL
KINGS CANYON UNIFIED SCHOOL DISTRICT
740 W NORTH AVE, REEDLEY, CA 93654

DRAWING TITLE
PLUMBING DETAILS & SCHEDULES

DATE: 2/11/22

DSA APPLICATION NO.
02-119613

PROJECT NO.
03-1181

DRAWING
P5.03

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| | | | |
|---|---|---|---|
| Project Name: | RES'ROOM BUILDING | NRCC-PRF-01-E | Page 1 of 13 |
| Project Address: | 1801 10TH ST REEDLEY 93654 | Calculation Date/Time: | 14:13, Thu, Jan 13, 2022 |
| Input File Name: | C22-002.bid BATHROOM BUILDINGS.cibd19x | | |

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Project Location (city) | REEDLEY | 8 | Standards Version | Compliance2019 |
| 2 | CA Zip Code | 93654 | 9 | Compliance Software (version) | EnergyPro 8.1 |
| 3 | Climate Zone | 13 | 10 | Weather File | FRESNO_723890_CZ2010.epw |
| 4 | Total Conditioned Floor Area in Scope | 360 ft² | 11 | Building Orientation (deg) | (S) 180 deg |
| 5 | Total Unconditioned Floor Area | 510 ft² | 12 | Permitted Scope of Work | NewComplete |
| 6 | Total # of Stories (Habitable Above Grade) | 1 | 13 | Building Type(s) | Nonresidential |
| 7 | Total # of dwelling units | 0 | 14 | Gas Type | NaturalGas |

**B. PROJECT SUMMARY**

*Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.*

| Building Components Complying via Performance | | | Building Components Complying Prescriptively | | |
|---|---|---|---|---|---|
| Envelope (see Table G) | ☒ Performance | Covered Process: Commercial Kitchens | ☐ Performance | *The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).* | |
| | ☐ Not Included | | ☒ Not Included | | |
| Mechanical (see Table H) | ☒ Performance | Covered Process: Computer Rooms | ☐ Performance | Indoor Lighting (Unconditioned)§140.6 | NRCC-LTI-E |
| | ☐ Not Included | | ☒ Not Included | Outdoor Lighting §140.7 | NRCC-LTD-E |
| Domestic Hot Water (see Table I) | ☒ Performance | Covered Process: Laboratory Exhaust | ☐ Performance | Sign Lighting §140.8 | NRCC -LTS-E |
| | ☐ Not Included | | ☒ Not Included | Mandatory Measures | |
| Lighting ( Indoor Conditioned, see Table K) | ☒ Performance | | | *Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e., compliance will not be shown on the NRCC-PRF-E.)* | |
| | ☐ Not Included | | | Electrical Power Distribution §110.11 | NRCC-ELC-E |
| Solar Thermal Water Heating (see Table J) | ☐ Performance | | | Commissioning §120.8 | NRCC-CXR-E |
| | ☒ Not Included | | | Solar Ready §110.10 | NRCC-SRA-E |



| | | | |
|---|---|---|---|
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**C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ²-yr)**

**COMPLIES**

| Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Space Heating | 18.50 | 25.23 | -6.73 |
| Space Cooling | 55.24 | 68.34 | -13.10 |
| Indoor Fans | 79.97 | 43.52 | 36.45 |
| Heat Rejection | -- | -- | -- |
| Pumps & Misc. | -- | -- | -- |
| Domestic Hot Water | -- | -- | -- |
| Indoor Lighting | 40.24 | 49.87 | -9.63 |
| **ENERGY STANDARDS COMPLIANCE TOTAL** | **193.95** | **186.96** | **6.99 (3.6%)** |

[1] *Notes: The number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

**C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]**

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

| Miscellaneous Energy Component | Standard Design (TDV) | Proposed Design (TDV) | Compliance Margin (TDV)[1] |
|---|---|---|---|
| Receptacle | -- | -- | -- |
| Process | -- | -- | -- |
| Other Lig | 57.01 | 57.01 | -- |
| Process Motors | -- | -- | -- |
| **COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS** | **250.96** | **243.97** | **7.0 (2.8%)** |

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*



| | | | |
|---|---|---|---|
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| Input File Name: | C22-002.bid BATHROOM BUILDINGS.cibd19x | | |

**C3. ENERGY USE SUMMARY**

| Energy Component | Standard Design Site (MWh) | Proposed Design Site (MWh) | Margin (MWh) | Standard Design Site (MBtu) | Proposed Design Site (MBtu) | Margin (MBtu) |
|---|---|---|---|---|---|---|
| Space Heating | -- | 0.4 | -- | 3.2 | -- | -- |
| Space Cooling | 0.5 | 0.7 | -0.2 | -- | -- | -- |
| Indoor Fans | 0.9 | 0.5 | 0.4 | -- | -- | -- |
| Heat Rejection | -- | -- | -- | -- | -- | -- |
| Pumps & Misc. | -- | -- | -- | -- | -- | -- |
| Domestic Hot Water | -- | -- | -- | -- | -- | -- |
| Indoor Lighting | 0.5 | 0.7 | -0.2 | -- | -- | -- |
| **Compliance Total** | **1.9** | **2.3** | **-0.4** | **3.2** | **0.0** | **--** |
| Receptacle | -- | -- | -- | -- | -- | -- |
| Process | -- | -- | -- | -- | -- | -- |
| Other Lig | 0.7 | 0.7 | 0.0 | -- | -- | -- |
| Process Motors | -- | -- | -- | -- | -- | -- |
| **TOTAL** | **2.6** | **3.0** | **-0.4** | **3.2** | **0.0** | **--** |

**D. EXCEPTIONAL CONDITIONS**

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

**E. HERS VERIFICATION**

This Section Does Not Apply



| | | | |
|---|---|---|---|
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| Input File Name: | C22-002.bid BATHROOM BUILDINGS.cibd19x | | |

**G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)**

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| **Opaque Surfaces & Orientation** | **Total Gross Surface Area (ft²)** | **Total Fenestration Area (ft²)** | **Window to Wall Ratio (%)** |
| North-Facing[1] | 0 ft² | 0 ft² | 00.0% |
| East-Facing[2] | 150 ft² | 32 ft² | 21.3% |
| South-Facing[3] | 220 ft² | 0 ft² | 00.0% |
| West-Facing[4] | 150 ft² | 0 ft² | 00.0% |
| Total | **520 ft²** | **32 ft²** | **06.2%** |
| Roof | 360 ft² | 0 ft² | 00.0% |

*Notes:*
[1] *North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).*
[2] *East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).*
[3] *South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).*
[4] *West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).*

**G3. OPAQUE SURFACE ASSEMBLY SUMMARY**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| **Surface Name** | **Surface Type** | **Area (ft²)** | **Framing Type** | **Cavity R-Value** | **Continuous R-Value** | **Units** | **Value** | **Description of Assembly Layers** | **Status[1]** |
| R-19 Wall10 | ExteriorWall | 1180 | Wood | 19 | NA | U-Factor | 0.072 | Stucco - 7/8 in.<br>Vapor permeable felt - 1/8 in.<br>Wood framed wall, 16in. OC, 5.5in.,<br>R-19<br>Gypsum Board - 1/2 in. | N |
| Slab On Grade17 | UndergroundFloor | 870 | NA | 0 | NA | F-Factor | 0.73 | Slab Type = UnheatedSlabOnGrade<br>Insulation Orientation = None<br>Insulation R-Value = R0 | N |



| | | | |
|---|---|---|---|
| Project Name: | RES'ROOM BUILDING | NRCC-PRF-01-E | Page 5 of 13 |
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| Input File Name: | C22-002.bid BATHROOM BUILDINGS.cibd19x | | |

**G3. OPAQUE SURFACE ASSEMBLY SUMMARY**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| **Surface Name** | **Surface Type** | **Area (ft²)** | **Framing Type** | **Cavity R-Value** | **Continuous R-Value** | **Units** | **Value** | **Description of Assembly Layers** | **Status[1]** |
| R-38 Roof Attic19 | Roof | 870 | Wood | 38 | NA | U-Factor | 0.033 | Asphalt shingles - 1/4 in.<br>Vapor permeable felt - 1/8 in.<br>Plywood - 1/2 in.<br>Air - Cavity - Wall Roof Ceiling - 4 in. or more<br>Wood framed roof, 24in. OC, 3.5in.,<br>R-38<br>Gypsum Board - 1/2 in. | N |

[1] *Status: N - New, A – Altered, E – Existing*

**G4. OPAQUE DOOR SUMMARY**

| 1 | 2 | 3 |
|---|---|---|
| **Assembly Name** | **Overall U-factor** | **Status[1]** |
| Wood Door12 | 0.500 | N |

**G5. FENESTRATION ASSEMBLY SUMMARY**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| **Fenestration Assembly Name / Tag or I.D.** | **Fenestration Type / Product Type / Frame Type** | **Certification Method[1]** | **Assembly Method** | **Area ft²** | **Overall U-factor** | **Overall SHGC** | **Overall VT** | **Status[2]** |
| Double Metal Clear | VerticalFenestration FixedWindow MetalFraming | Default Performance | SiteBuilt | 32 | 0.71 | 0.73 | 0.77 | N |

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center-of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A – Altered, E – Existing*



| | | | |
|---|---|---|---|
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**H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Heating | | | | Cooling | | | | |
| **Equipment Name** | **Equipment Type** | **Qty** | **Total Heating Output (kBtu/h)** | **Supp Heat Output (kBtu/h)** | **Efficiency Unit** | **Efficiency** | **Total Cooling Output (kBtu/h)** | **Efficiency Unit** | **Efficiency** | **Economizer Type (if present)** | **Status[1]** |
| System | SZHP (Split1Phase) | 1 | 80 | 0 | HSPF | 9.000 | 24 | SEER EER | 14.000 12.500 | NoEconomizer | N |

[1] *Status: N - New, A – Altered, E – Existing*

**H2. FAN SYSTEMS SUMMARY[1]**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Supply Fan | | | Return Fan | | | | | |
| **Name or Item Tag** | **System Type** | **Design OA** | **CFM** | **BHP** | **Watts** | **Control** | **CFM** | **BHP** | **Watts** | **Control** | **Economizer Type (if present)** | **Status[2]** |
| | **packaged, DOAS, etc.** | | | | | | | | | | | |
| System | SZHP | 0 | 800 | 0.100 | 87.2 | ConstantVolume | NA | NA | NA | NA | NoEconomizer | N |

[1] *Status: N - New, A – Altered, E – Existing*

**H3. EXHAUST FAN SUMMARY**

This Section Does Not Apply

**H4. Wet System Equipment (boilers, chillers, cooling towers, etc.)**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Pumps | | | | |
| **Name or Item Tag** | **Equipment Type** | **Qty** | **Vol (gal)** | **Rated Capacity (kBtu/h)** | **Efficiency** | **Standby Loss** | **Qty** | **GPM** | **HP** | **VSD (Y/N)** | **Status[1]** |

[1] *Status: N - New, A – Altered, E – Existing*



| | | | |
|---|---|---|---|
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**H5. SYSTEM SPECIAL FEATURES**

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| **System Name** | **Optimum Start** | **Window Interlocks per §140.4(n)** | **Evaporative Cooling** | **Heat Recovery** | **Other Controls** |
| System | No Optimum Start | NA | No Evaporative Cooler | No Heat Recovery | No DCV Controls, No DDC<br>No Economizer<br>No Supply Air Temp. Control |
| Plant1 - SHW | NA | NA | NA | NA | Fixed Temperature Control, No DDC |

*Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.*

**H6. MECHANICAL VENTILATION**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| | Mechanical Ventilation | | | | | | | |
| **Zone Name** | **Ventilation Function** | **# hotel rooms** | **# of people** | **# of bedrooms** | **Supply OA CFM** | **Exhaust CFM** | **Conditioned Area (sf)** | **DCV or Occupant Sensor Controls, or Both** |
| 1-Zone | Exhaust - Toilets, public | 0 | 1.80 | 0 | 0 | 0 | 360 | NA |

| | |
|---|---|
| **Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY )** | No |
| **Does the Project include Zonal Systems?** | No |

**H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Rated Capacity (kBtuh) | | Airflow (cfm) | | | Fan | | | |
| **System ID** | **Zone Name** | **System Type** | **Heating** | **Cooling** | **Design** | **Min.** | **Min. Ratio** | **BHP** | **Watts** | **Cycles** | **ECM Motor** |
| 1-Zone-Trm | 1-Zone | Uncontrolled | NA | NA | 800 | NA | 0.00 | NA | NA | NA | ☐ |

**H8. EVAPORATIVE COOLER SUMMARY**

This Section Does Not Apply



| | | | |
|---|---|---|---|
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**I1. WATER HEATER EQUIPMENT SUMMARY**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Name** | **Heater Element Type** | **Tank Type** | **Qty** | **Tank Vol (gal)** | **Rated Input** | **Rated Input Unit** | **Efficiency** | **Efficiency Unit** | **Tank Insulation R-value (Ind/Ext)** | **Standby Loss Fraction** | **Heat Pump Type** | **1st Hour Rating or Flow Rate (gal)** | **Tank Location or Ambient Condition** |
| WATER HEATER2 | specify - | | | | NA | NA | | | NA | NA | NA | NA | NA |

**K1. INDOOR CONDITIONED LIGHTING GENERAL INFO**

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| | | | | Additional (Custom) Allowance | |
| **Occupancy Type[1]** | **Conditioned Floor Area[2] (ft²)** | **Installed Lighting Power (Watts)** | **Lighting Control Credits (Watts)** | **Area Category Footnotes (Watts)** | **Tailored Method (Watts)** |
| Restrooms | 360 | 290 | 0 | 0 | 0 |
| **Building Totals:** | **360** | **290** | **0** | **0** | **0** |

[1] *See Table 140.6-C*
[2] *See NRCC-LTI-01-E for unconditioned spaces*
[3] *Lighting information for existing spaces modeled is not included in the table*

**K2. INDOOR CONDITIONED LIGHTING SCHEDULE**

| **Luminaire Schedule** (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices) | | | | | | Installed Watts (Conditioned) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | | | | | 3 | 4 | 5 | 6 | | |
| **Name or Item Tag** | **Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)** | | | | | **Watts per luminaire** | **How Wattage is Determined** | **Total Number Luminaires** | **Installed Watts** | | |
| F2 | F2 1X4 LED | | | | | 51 | According to §130.0(c) | 2 | 102 | | |



| | | | |
|---|---|---|---|
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**K2. INDOOR CONDITIONED LIGHTING SCHEDULE**

| **Luminaire Schedule** (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices) | | | | | | Installed Watts (Conditioned) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | | | | | 3 | 4 | 5 | 6 | | |
| **Name or Item Tag** | **Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)** | | | | | **Watts per luminaire** | **How Wattage is Determined** | **Total Number Luminaires** | **Installed Watts** | | |
| F7 | F7 1X4 LED | | | | | 47 | According to §130.0(c) | 4 | 188 | | |

**K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS**

**Lighting Control Credits Schedule** (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| Area Description | Primary Function Area (must meet requirements of Table 140.6-A) | Type of Lighting Control | Power Adjustment Factor (PAF) | Luminaire Name or Item Tag | Watts per Luminaires | # of Luminaires | Lighting Controlled (Watts) | Control Credit (Watts) |
| S-1-Zone | Restrooms | NA | 0.00<br>0.00<br>0.00<br>0.00<br>0.00 | F7 | 188.0 | 4 | 188 | 0 |
| S-1-Zone | Restrooms | NA | 0.00<br>0.00<br>0.00<br>0.00<br>0.00 | F2 | 102.0 | 2 | 102 | 0 |



| | | | |
|---|---|---|---|
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**K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS**

**Building Level Controls**

| 1 | 2 |
|---|---|
| **Mandatory Demand Response §110.12(c)** | **Shut-Off Controls §130.1(c)** |
| NA | Required |

**Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)**

| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|
| **Area Description** | **Area Category Primary Function Area** | **Area Controls §130.1(a)** | **Multi-Level Controls §130.1(b)** | **Shut-Off Controls §130.1(c)** | **Primary Daylighting §130.1(d)** | **Secondary Daylighting §140.5(d)** |
| OCCUPANCY SENSOR | Dining Area (Cafetaria/Fast Food) | Required | Required | Required | Required | Exempt |



| | | | |
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**L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and 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/*

| Building Component | Form/Title |
|---|---|
| Envelope | NRCI-ENV-01-E - Must be submitted for all buildings |
| Mechanical | NRCI-MCH-01-E - Must be submitted for all buildings |
| Plumbing | NRCI-PLB-01-E - Must be submitted for all buildings |
| Indoor Lighting | NRCI-LTI-01-E - Must be submitted for all buildings |



| | | | |
|---|---|---|---|
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**M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

*Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. 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:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/*

| Building Component | Form/Title |
|---|---|
| Envelope | NRCA-ENV-02-F - NRFC label verification for fenestration |
| Indoor Lighting | NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls |
| | NRCA-LTI-03-A - Automatic Daylight Controls |
| Mechanical | 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 |
| | NRCA-MCH-20 Multifamily Ventilation |



| | | | |
|---|---|---|---|
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**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

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

| | |
|---|---|
| Documentation Author Name: | |
| Company: Cantelmi engineering, Inc. | Signature: |
| Address: | Signature Date: 2022-01-13 |
| City/State/Zip: | CEA/ HERS Certification Identification (if applicable): |
| 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 Envelope Designer Name: J7S CONSTRUCTION | | | |
| Company: J7S CONSTRUCTION | Signature: | | |
| Address: 7001 MCDIVITT CRT. | Date Signed: 2022-01-13 | | |
| City/State/Zip: BAKERSFIELD CA 93313 | | | |
| Phone: 661 835 9270 | Title: | License #: 798919 GENERAL B | |
| Responsible Lighting Designer Name: FRANK CANTELMI | | | |
| Company: CANTELMI ENG | Signature: | | |
| Address: 2130 F ST. | Date Signed: 2022-01-13 | | |
| City/State/Zip: BAKERSFIELD CA 93301 | | | |
| Phone: 661 324 5252 | Title: Engineer | License #: 21190 | |
| Responsible Mechanical Designer Name: FRANK CANTELMI | | | |
| Company: CANTELMI ENG | Signature: | | |
| Address: 2130 F ST. | Date Signed: 2022-01-13 | | |
| City/State/Zip: BAKERSFIELD CA 93301 | | | |
| Phone: 661 324 5252 | Title: Engineer | License #: 21190 | |



STATE OF CALIFORNIA
**Indoor Lighting**
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

| | | | |
|---|---|---|---|
| **CERTIFICATE OF COMPLIANCE** | | | **NRCC-LTI-E** |
| *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.* | | | |
| **Project Name:** | REEDLEY | **Report Page:** | **(Page 1 of 7)** |
| **Project Address:** | 1801 10TH ST | **Date Prepared:** | 1/13/2022 |

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | REEDLEY | 04 | Total Conditioned Floor Area (ft²) | 0 |
| 02 | Climate Zone | 13 | 05 | Total Unconditioned Floor Area (ft²) | 510 |
| 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) See Table I

**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 | Area Category Method | 0 | Area Category Method | 510 |
| ☐ New Lighting System - Parking Garage | | | | |
| **Total Area of Work (ft²)** | 0 | | 510 | |

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft



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| | | | |
|---|---|---|---|
| **CERTIFICATE OF COMPLIANCE** | | | **NRCC-LTI-E** |
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**C. COMPLIANCE RESULTS**

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

| | Allowed Lighting Power per §140.6(b) (Watts) | | | | | | Adjusted Lighting Power per §140.6(a) (Watts) | | | | Compliance Results |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1* | 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 F) | = | **Total Adjusted** (Watts) *Includes Adjustments* | **05 must be >= 08 §140.6** |
| **Conditioned** | | | | | = | | ≥ | | = | | |
| **Unconditioned** | | 331.5 | 0 | | = | 332 | ≥ | 306 | = | 306 | COMPLIES |
| | | | | | | | **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: Unconditioned Spaces**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Field Inspector | |
| 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 | Pass | Fail |
| F2 | F2 1X4 LED | No | No | 51 | Mfr. Spec | 6 | No | 306 | ☐ | ☐ |
| | | | | | **Total Designed Watts: UNCONDITIONED SPACES** | | | 306 | | |

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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### 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 .*

**Unconditioned 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 |
| Zone 2 | Restrooms | 0.65 | 510 | 331.5 | No | No |
| | | **TOTALS:** | 510 | 331.5 | 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.

### 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.

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### Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

### R. 80% LIGHTING POWER FOR ALL ALTERATIONS - 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 | Field Inspector 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

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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 | Field Inspector 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) | ☐ | ☐ |

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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: Cantelmi engineering, Inc. | Signature Date: 2022-01-13 |
| 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 1 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 ssomitted 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: FRANK CANTELMI | Responsible Designer Signature: |
| Company: CANTELMI ENG | Date Signed: 2022-01-13 |
| Address: 2130 F ST. | License: 21190 |
| City/State/Zip: BAKERSFIELD CA 93301 | Phone: 661 324 5252 |

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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STATE OF CALIFORNIA
## Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
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### A. GENERAL INFORMATION

| | | | | |
|---|---|---|---|---|
| 01 | Project Location (city) | REEDLEY | | |
| 02 | Climate Zone | 13 | | |
| 03 | Outdoor Lighting Zone per Title 24 Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ): | | 04 | Total Illuminated Hardscape Area (ft²) 1346 |

☐ 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.*

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STATE OF CALIFORNIA
## Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| Project Name: | REEDLEY | Report Page: | (Page 2 of 8) |
| Project Address: | 1801 10TH ST | Date Prepared: | 1/13/2022 |

### 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**

| 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)3 (See Table K) | + | Ornamental §140.7(d)3 (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** |
| 447.65 | + | --- | + | --- | + | --- | + | --- | OR | --- | = | 447.65 | ± | 39 | | COMPLIES |

**Compliance Results**

**Cutoff Compliance (See Table G for Details):** COMPLIES

**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.*

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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 [3] | Luminaire Status[3] | Excluded per §140.7(a) | Design Watts | Cutoff Req. > 6,200 initial lumen output §130.2(b)[4] | Field Inspector Pass | Field Inspector Fail |
| F4 | F4 WALL PACK | ☐ Linear | 13 | Mfr. Spec | 3 | New | ☐ | 39 | Yes | ☐ | ☐ |
| | | | | | | | **Total Design Watts:** | 39 | | | |

** 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/ft 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)*

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### G. CUTOFF REQUIREMENTS (BUG)

*This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Cutoff Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.*

| true | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | Backlight Rating[2] | | | Uplight Rating[2] | | | Glare Rating (Lumens)[2] | | | | Field Inspector |
| | | Mounting Height[1] | Max Allowable Backlight Rating[3] | Backlight Rating Per Design | Lighting type | Max Allowable Uplight Rating[3] | Uplight Rating Per Design | Mounting Height[1] | Max Allowable Glare Rating[3] | Glare Rating Per Design | Pass | Fail |
| F4 | F4 WALL PACK | 2 MH from property line | No Limit | B1 | All other outdoor lighting, including decorative | U3 | U0 | 2 MH from property line | G3 | G1 | ☐ | ☐ |

*[1] FOOTNOTES: Mounting Height is labeled MH in this table.*
*[2] Authority Having Jurisdiction may ask for luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per §130.2(b)*
*[3] BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.*

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### 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 |
| ASTRONOMICAL TIME CLOCK | Photocontrol | Yes | Exempt* | ☐ | ☐ |

** 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)*

| | |
|---|---|
| ASTRONOMICAL TIME CLOCK | ASTRONOMICAL TIME CLOCK |

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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|---|---|---|---|
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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) | |
| Ext Task | Asphalt | 1346 | 0.03 | 33.65 | 256 | 0.4 | 64 | 97.65 |
| | | | | | **Initial Wattage Allowance for Entire Site (Watts):** | | | 350 |
| | | | | | **Total General Hardcape Allowance (Watts):** | | | 447.65 |

### 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.

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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 | Field Inspector 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 | Field Inspector Fail |
|---|---|---|---|---|
| ● | ○ | NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires. | ☐ | ☐ |

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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: Cantelmi engineering, Inc. | Signature Date: 2022-01-13 |
| 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 1 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 ssomitted 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: FRANK CANTELMI | Responsible Designer Signature: |
| Company: CANTELMI ENG | Date Signed: 2022-01-13 |
| Address: 2130 F ST. | License: 21190 |
| City/State/Zip: BAKERSFIELD CA 93301 | Phone: 661 324 5252 |

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119613 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022
APPROVALS
FILE # APPLICATION #

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2130 F STREET
BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET


2/11/22

REGISTERED PROFESSIONAL ENGINEER FRANK J. CANTELMI No. 21190 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER BRIAN J. ORTEGA No. S 4437 STRUCTURAL STATE OF CALIFORNIA Exp. 12/31/22

NEW MODULAR RESTROOMS / STORAGE BUILDING
REEDLEY HIGH SCHOOL
KINGS CANYON UNIFIED SCHOOL DISTRICT
740 W NORTH AVE, REEDLEY, CA 93654

DRAWING TITLE
ENERGY CALCULATIONS

DATE: 2/11/22

DSA APPLICATION NO.
02-119613

PROJECT NO.
03-1181

DRAWING
EC1.02-R

file: S:\DWGS2022\JTS\REEDLEY RESTROOM C22-002\C22-002 REEDLEY MECH_REV1.dwg DATE: 12/22/2021 9:44 AM

# MODULAR
# SLAB ON GRADE BUILDING MODEL
## 40' WIDE BUILDINGS - 1 MODULE TO 10 MODULES.
## MODULE LENGTH INCREMENTS OF 12'-0" FOR USE IN CLASSROOM.

## PROJECT DATA - THIS PC IS APPROVED FOR ALL CLIMATE ZONES

## BUILDING DATA

DESIGN LOADS PER 2019 CALIFORNIA BUILDING CODE:

**Dead and Live Loads**
Floor live load: SLAB ON GRADE
Roof live load: 20 PSF (REDUCIBLE)
Ramp live load: N/A
Roof dead load 22 PSF MAX
Floor dead load: SLAB ON GRADE

**Allowable Soil Pressure**
DL+LL (concrete footing): REFER TO S1.1
DL+LL+Seismic (concrete footing): REFER TO S1.1

**Snow Load**
Ground snow load, 0

**Flood Design**
NOT CONSIDERED IN DESIGN

**Wind Design**
Basic wind speed (3-second gust), V 95 MPH
Risk category: II
Wind exposure category: C
Topographic factor, Kzt (1 min.): 1
Internal pressure coefficient, GCpi, .18
Ground elevation factor, Ke: 1.00

**Seismic Design**
Lateral force-resisting system:SHEAR WALL
Analysis procedure: EQUIV. LATERAL FORCE ANALYSIS
Seismic design category (SDC). E
Seismic importance factor: REFER TO S1.1
Design base shear, REFER TO S1.1
Seismic response coefficient: REFER TO S1.1
Response modification factor: REFER TO S1.1
Site class D ☒

Mapped spectral response acceleration at short period, Ss: 2.14 A, B, & D.
Short-period site coefficient, 1.79 C & D DEFULT
Design spectral response acceleration at short period, Sds - used to determine CS (with cap per CBC, Section 1616A.1.12): 1.0
Design spectral response acceleration at short period, Sds - used to determine other parameters and non-structural component anchorage (no cap): 1.428

Mapped spectral response acceleration at 1-second period, S1: .75
Long-period site coefficient, Fv: 1.7 A, B & D.
Design spectral response acceleration at 1-second period, Sd1: .850
Horizontal or vertical irregularity type(s): NONE
Note: Contact DSA Regional Offices for additional information and instructions.

SITE SPECIFIC SEISMIC CRITERIA

Ss = .517 Fa = 1.387 Sds = .478
S1 = .21 Fv = null Sd1 = null
SITE Ts = 12 (BLDG Ta <=0.5 SEC)
SEISMIC DESIGN CATEGORY D (IF S1>=0.75 IDENTIFY AS E, OTHERWISE D)

SITE SPECIFIC WIND CRITERIA

BASIC WIND SPEED V = 94 (mph)

OCCUPANCY: E - CLASSROOM

OCCUPANCY LOAD: SHALL BE 20 SQ. FT. PER OCCUPANT WITH TOTAL OCCUPANT LOAD LESS THAN 250 PERSONS

TYPE OF CONSTRUCTION: VB

BUILDING AREA PROPOSED: 480 S.F. - 4800 S.F.

SPRINKLER SYSTEM: PER FIRE MARSHALL

ONLY CHECKED BOXES APPLY TO THIS PROJECT:

☒ SECTION 116(a): MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES NOT EXCEEDING THOSE SHOWN IN TABLE 1-E OF THE STANDARDS. MANUFACTURED FENESTRATION PRODUCTS MUST BE LABELED FOR U-VALUE ACCORDING TO NFRC PROCEDURES

☒ SECTION 116(b): SITE CONSTRUCTED DOORS, WINDOWS AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHER STRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS)

☒ SECTION 117(a): ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING THAT ARE OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED, OR OTHERWISE SEALED

☒ SECTION 118(a): INSTALLED INSULATING MATERIAL SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL, TITLE 20, CHAPTER 4, ARTICLE 3

☐ SECTION 118(c): SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF CHAPTER 7 AND 719 OF TITLE 24, PART 2

☒ SECTION 118(e): DEMISING WALLS IN NON-RESIDENTIAL BUILDINGS: THE OPAQUE PORTIONS OF FRAMED DEMISING WALLS IN NON-RESIDENTIAL BUILDINGS SHALL HAVE INSULATION WITH AN INSTALLED R-VALUE NO LESS THAN R-11 BETWEEN FRAMING MEMBERS

SITE SPECIFIC PROVISIONS:
LOCATION OF BUILDING SHALL COMPLY WITH CALIFORNIA BUILDING CODE CHAPTER(S) 3, 5, 6, 7, 7A, 10, 11, & 14 RELATIVE TO THE BUILDING'S PROXIMITY TO ADJACENT STRUCTURES AND PROPERTY LINES, EXTERIOR WALLS AND OPENING PROTECTION, ALLOWABLE FLOOR AREA AND ACCESS TO PUBLIC RIGHT OF WAY. A SEPARATE APPLICATION SHALL BE FILED WITH DSA WHEN THIS BUILDING IS TO BE PLACED UPON A SPECIFIC SITE. IT SHALL BE THE RESPONSIBILITY OF THE SITE'S ARCHITECT OR ENGINEER OF RECORD TO PLACE THE PROPOSED STRUCTURES IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES AND TO DETERMINE EXTERIOR WALL AND OPENING PROTECTION, IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE. IF A CHANGE OF OCCUPANCY OR IF MULTIPLE OCCUPANCIES ARE REQUIRED FOR A SPECIFIC SITE, DRAWINGS MUST BE SUBMITTED TO DSA FOR APPROVAL.

THIS BUILDING IS DESIGNATED AS:
☒ PERMANENT
☐ TEMPORARY
☐ DAY CARE USE

"WHEN THE PRE-CHECK IS SITE ADAPTED, THE BUILDING AND SITE FEATURES NEED TO COMPLY WITH THE CALGREEN CODE, SECTION 5.507.4 FOR THE SPECIFIC SITE LOCATION, AND WHEN PC BUILDING IS PLACED ADJOINING WALL SECTION FOR INTERIOR SOUND TRANSMISSION MUST MEET THE MINIMUM REQUIREMENT OF A STC RATING OF 40 (PER 2019 CALGREEN CODE, SECTION 507.4.3)"

NOTE: THIS PC IS NOT TO BE USED FOR AIRPORTS OR WITHIN THE 65 CNEL OR LAND NOISE CONTOUR OF A FREEWAY OR EXPRESSWAY, RAILROAD, INDUSTRIAL SOURCE OR FIXED-GUIDEWAY SOURCE AS DETERMINED BY THE JOISE ELEMENT OF THE GENERAL PLAN.

M:\JTS-PC Design Standards\2020 PC Drawings\S0C 40 PC (2020)\T-1.00.dwg Sep 02, 2021 1:12pm

## GENERAL NOTES

NOTHING IN THE DRAWINGS AND/OR THE SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT AN INSTALLATION THAT COULD BE IN VIOLATION OF THE APPLICABLE CODES, ORDINANCES, REGULATIONS, RESTRICTIONS, ETC.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY. DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE DRAWINGS SHALL CAUSE THE CONTRACTOR TO NOTIFY THE ARCHITECT PRIOR TO MAKING ANY CHANGES IN THE WORK.

THE DRAWINGS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED HEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT/OWNER AND NO PART THEREOF SHALL BE COPIED OR DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THESE DOCUMENTS HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF JTS MODULAR INC. VISUAL CONTACT WITH THESE DRAWINGS CONSTITUTES CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND JTS MODULAR INC. MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

MISPLACEMENT, ADDITION, OR OMISSION OF ANY WORD, LETTER, FIGURE, PUNCTUATION MARK, ETC., SHALL IN NO WAY CHANGE OR ALTER THE TRUE INTENT, SPIRIT, OR MEANING OF THE DRAWINGS.

THE CONTRACTOR SHALL STUDY AND COMPARE ALL DRAWING SHEETS AND SHALL REPORT ANY ERRORS, OMISSIONS, OR INCONSISTENCIES TO JTS MODULAR INC. BEFORE COMMENCING WORK IN THAT AREA.

IF CONFLICTS BETWEEN VARIOUS ELEMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL) OF THE WORK OF THE DRAWINGS ARE DISCOVERED, THEY SHALL BE BROUGHT TO THE ATTENTION OF JTS MODULAR INC. IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.

EXISTING DIMENSIONS INDICATED ON THESE DRAWINGS HAVE BEEN PROVIDED FROM INFORMATION OBTAINED FROM THE DISTRICT. THE CONTRACTOR SHALL USE WHAT MEANS NECESSARY TO VERIFY THE DIMENSIONS IN THE AREAS OF DESIGNATED WORK THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO STARTING WORK IN THE AREA OF QUESTION.

ALL WORK SHALL CONFORM TO TITLE 24, 2019 CALIFORNIA CODE OF REGULATIONS (C.C.R.)

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CCD APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

A PROJECT INSPECTOR (CLASS 1) EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

ARCHITECT OF RECORD TO VERIFY WITH LOCAL AUTHORITY THAT FOUNDATION DEPTH IS BELOW FROST LINE WHEN BUILDING IS LOCATED IN SNOW CONDITION.

A COPY OF GEOHAZARD AND GEOTECHNICAL REPORT SHALL BE SUBMITTED TO DSA FOR BUILDINGS AREAS LARGER THAN 4000S/F (INCLUDING AREAS COVERED BY OVERHANGS) PER 2019 CBC, SECTIONS 1803A.1, 1803A.2, 1803A.6, AND DSA IR A 4-13. THE GEOHAZARD AND GEOTECHNICAL REPORTS SHALL ALSO BE SUBMITTED TO AND APPROVED BY CA GEOLOGICAL SURVEY (CGS) PRIOR TO THE APPROVEAL OF PLANS OF ANY SITE SPECIFIC APPLICATION USING THIS PC

FUTURE SOLAR INSTALLATION WILL REQUIRE SEPARATE DSA APPLICATION

## 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. 02-118526 FILE NO. PC-JTS )

☒ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
☐ 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: ☒ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
☐THIS DRAWING OR PAGE

| | |
|---|---|
| ☒ IS/ARE IN GENERAL CONFORMANCE<br>☒ HAVE BEEN COORDINATED | ☒ IS/ARE IN GENERAL CONFORMANCE<br>☒ HAVE BEEN COORDINATED |
| SIGNATURE 08/26/20 DATE | SIGNATURE DATE |
| ARCHITECT/ENGINEER DESIGNATED TO BE IN RESPONSIBLE CHARGE | ARCHITECT/ENGINEER DELEGATED TO RESPONSIBILITY GENERAL FOR THIS PORTION OF THE WORK |
| PRINT NAME: RYAN OMER — EXPIRATION DATE: 12/31/20 | PRINT NAME — EXPIRATION DATE |
| LICENSE NUMBER: S-4437 | LICENSE NUMBER |

## PROJECT DIRECTORY

## APPLICABLE CODES

TITLE 19, CCF, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS

TITLE 24, CCR, PART 1 - 2019 BUILDING STANDARDS ADMINISTRATIVE CODE EFFECTIVE JULY 1, 2019

TITLE 24, CCR, PART 2 - 2019 CALIFORNIA BUILDING CODE, VOL. 1 & 2 (CBC)(2018 IBC, AS AMENDED BY CA)

TITLE 24, CCR, PART 3 - 2019 CALIFORNIA ELECTRICAL CODE (CEC)(2017 NEC, AS AMENDED BY CA)

TITLE 24, CRC, PART 4 - 2019 CALIFORNIA MECHANICAL CODE (CMC)(2018 IAPMO UMC, AS AMENDED BY CA)

TITLE 24, CCR, PART 5 - 2019 CALIFORNIA PLUMBING CODE (CPC)(2018 IAPMO UPC, AS AMENDED BY CA)

TITLE 24, CCR, PART 6 - 2019 CALIFORNIA ENERGY CODE EFFECTIVE JULY 1, 2016

TITLE 24, CCR, PART 9 - 2019 CALIFORNIA FIRE CODE (CFC)(2018 IFC, AS AMENDED BY CA)

TITLE 24, CCR, PART 11 - 2019 CALIFORNIA GREEN BUILDING STDS CODE EFFECTIVE JULY 1, 2016

TITLE 24, CCR, PART 12 - 2019 CALIFORNIA REFERENCED STANDARDS (PARTIALS LIST - SEE CBC 35 AND CFC CH, 45)

2016 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)

2016 NFPA 14, INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

2017 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS

2017 NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEMS

2016 NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION

2013 NFPA 22, WATER TANKS FOR PRIVATE FIRE PROTECTION

2016 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS

2016 NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED); SEE UL STD 1971 FOR 'VISUAL DEVICES'

2016 NFPA 80, FIRE DOOR AND OTHER OPENING PROTECTIVES

2015 NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS

2005 UL 300, CLASS I HOOD FIRE SUPPRESSION SYSTEMS

2003 UL 464, AUDIBLE SIGNAL APPLIANCES

1999 UL 521, HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

2017 ICC 300, BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS (ICC/ANSI 300-2002)

## FIRE SPRINKLERS

NOTE:
THIS PC INCLUDES A FIRE SPRINKLER SYSTEM. THE MINIMUM "FIRE FLOW" IS LISTED BELOW, AND MUST BE AVAILABLE AT THE SITE AND DOCUMENTED BY A WATER FLOW TEST. THE WATER FLOW TEST MUST BE CONDUCTED OR WITNESSED BY THE LOCAL AUTHORITY, WATER PURVEYOR OR A DSA APPROVED THIRD PARTY.
THE TEST MUST BE NO OLDER THAN SIX (6) MONTHS AT THE TIME OF PLAN SUBMITTAL, SITES THAT DO NOT MEET THE MINIMUM REQUIREMENTS MAY REQUIRE ADDITIONAL MEASURES TO BE TAKEN TO PROVIDE THE MINIMUMS THAT INCLUDE BUT ARE NOT LIMITED TO:
WATER TANKS, FIRE PUMPS, ADDITIONAL WELLS, ETC. IN ORDER FOR THIS PC TO BE UTILIZED.
HYDRAULIC CALCULATIONS FROM THE TEST HYDRANT TO THE BASE OF THE RISER MUST BE PROVIDED AT EACH SUBMITTAL FOR EACH BUILDING.

MINIMUM WATER FLOW REQUIRED AT THE BASE OF THE RISER:
STATIC PSI: 35.00
RESIDUAL PSI: 30.00
GPM: 800.00

NOTE: ALL OF THE 2019 TITLE 24, PART 6 ENERGY CODE COMPLIANCE SHEETS ARE THE WORST CASE ENERGY MODELING AND ARE VALID FOR ALL MODULES/VARIATIONS SHOWN IN THIS SET OF DRAWINGS FOR ALL CLIMATE ZONES IN CALIFORNIA

### OPTIONS LIST - KEY NOTES

| | | | | | |
|---|---|---|---|---|---|
| **NUMBER OF MODULES:** | ☐1MAR ☐2M ☒3M-RR ☐3M ☐4M ☐5M ☐5MRR ☐6M ☐6MRR ☐7M ☐7MRR ☐7MRR+JAN ☐8M ☐9M ☐10M | | | | |
| **GRADE LEVEL** | ☐KINDERGARTEN ☐ELEMENTARY ☒MIDDLE SCHOOL/HIGH SCHOOL/ADULT | | | | DRAWING NUMBER |
| **CEILING PLAN** | ☐2'X4' ACOUSTIC T-BAR SYSTEM | | | | A-1.20 |
| | ☒HARD LID | | | | 2/A-6.00 |
| **ROOF:** | ☐26 GAUGE STANDING SEAM | ☐MONO PITCH | ☐OVERHANG | | A-4.00 |
| | | ☐DUAL PITCH | ☐OVERHANG | | A-4.00 |
| | | ☐BARREL | ☐OVERHANG | | A-4.00 |
| | ☒60 MIL TPO (PARAPET ONLY) | ☐PARAPET | ☐CORNICE | | A-4.00 |
| | ☐SOLATUBE ON ROOF | | | | A-4.00 |
| | GENERAL DETAILS | | | | A-6.01 |
| **EXTERIOR ELEVATIONS** | ☒ELASTOMERIC FINISH | | ☐DUAL | | A-3.01 - A-3.03 |
| | | | ☐MONO | | A-3.05 - A-3.07 |
| | | | ☒PARAPET | | A-3.09 - A-3.11 |
| | | | ☐BARREL | | A-3.13 - A-3.15 |
| | ☐THIN BRICK VENEER | | ☐DUAL | | A-3.01 |
| | | | ☐MONO | | A-3.05 |
| | | | ☐PARAPET | | A-3.09 |
| | | | ☐BARREL | | A-3.13 |
| **INTERIOR ELEVATIONS** | ALL CASES | | | | A-2.00 - A-2.02 |
| **FINISH SCHEDULE** | ALL CASES | | | | A-1.32 |
| **BUILDING SECTIONS** | ☒WOOD STUDS | ☐MONO | ☐DUAL | | A-5.00 |
| | | ☒PARAPET | ☐BARREL | | A-5.01 |
| | ☐METAL STUDS | ☐MONO | ☐DUAL | | A-5.02 |
| | | ☐PARAPET | ☐BARREL | | A-5.03 |
| **WALL DETAILS** | ☒WOOD STUDS | | | | A-6.00 |
| | ☐METAL STUDS | | | | A-6.04 |
| **WALL FRAMING** | ☒WOOD STUDS | | | | S1.5A |
| | ☐METAL STUDS | | | | S1.5 |
| | ☐RATED WOOD STUDS | | | | S1.5A |
| | ☐RATED METAL STUDS | | | | S1.5 |
| **ROOF FRAMING** | ☐26 GAUGE STANDING SEAM | ☐MONO | ☐DUAL | ☐BARREL | S4.1 - S4.4, S4.6 - S4.7 |
| | ☒60 MIL TPO (PARAPET ONLY) | ☐PARAPET | | | S4.5 |
| **GEOHAZARD REPORT** | ☒NO ☐YES * REQUIRED IF BUILDING AREA > 4,000 SF | | | | |
| | (IF YES) GEOTECHNICAL FIRM: | | | | |
| | REPORT #: REPORT DATE: | | | | |
| | ☐ BUILDING IS LOCATED WITHIN EARTHQUAKE FAULT ZONES OR SEISMIC HAZARD ZONES | | | | |
| **GEOTECHNICAL REPORT** | ☒NO ☐YES * REQUIRED IF BUILDING AREA > 4,000 SF | | | | |

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~~E2.06 ☐ ELECTRICAL PLANS: 2M~~
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**PC TESTS & INSPECTIONS GUIDELINES FOR PER**MANENT MODULAR

**USER NOTE**: The purpose of this guide is to aid in the proper completion of form DSA-103 for this pre-check (PC) design. Check the applicable tests and/or special inspections on the form DSA-103 using the guideline. Though is not shown in this guideline, items exempt from testing or special inspection may be noted at the end of the form as in the APPENDIX to DSA-103.

| Additional information for PC designs only, not to be added to DSA-103 | | |
|---|---|---|
| | ~~STOCKPILE~~ | CONSTRUCTION OF PERMANENT MODULAR |
| **INSPECTOR CLASS** (MINIMUM REQUIREMENTS) | RBIP OR CLASS 1 | In plant: RBIP or Class1<br>Site: Class 1 |
| **SELECTION OF THE PROJECT INSPECTOR AND TESTING/SPECIAL INSPECTION AGENCY** | By the owner (not manufacturer) and approved by DSA, A/E of Record and structural engineer | By the School district and approved by DSA and A/E responsible for in-plant construction observation |
| **COST OF THE PROJECT INSPECTION (CAC, SECTION 4-333 [b]) AND TESTING/SPECIAL INSPECTION AGENCY (CAC, SECTION 4-333[b])** | By the owner (not manufacturer) | By the School District |

**Permanent Modular** Shear Wall
**Frame Building Project**
**X INDICATES TEST OR INSPECTION TO BE DONE**
**--- INDICATES NOT APPLICABLE**

| TESTS or INSPECTIONS (as listed on form DSA - 103-19 rev 7/16/20) | | | | ~~STOCKPILE~~ | CONSTRUCTION OF PERMANENT MODULAR |
|---|---|---|---|---|---|
| **MATERIAL TYPE** | | **DSA 103 ITEM #** | **DESCRIPTION** | | |
| **SOILS** | **General** | **1a** | **·Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.**<br>·Foundation excavations extended to proper depth and have reached proper material.<br>·Materials below footings are adequate to achieve design bearing capacity. | --- | x |
| **SOILS (Cont.)** | **COMPACTED FILLS** | **2a** | Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill. | --- | x |
| | | **2b** | Compaction testing | --- | x |
| **CONCRETE** | **Foundation Concrete** | **7a** | Verify use of required design mix | --- | x |
| | | **7b** | Identify, sample, and test reinforcing steel. | --- | x |
| | | **7c** | During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine temperature of the concrete. | --- | x |
| | | **7d** | Test concrete (f'c) | --- | x |
| | | **7e** | Batch plant inspection.<br>● Continuous ○ Periodic | --- | x |
| | **POST-INSTALLED ANCHORS** | **11a** | Inspect installation of post-installed anchors. | --- | x |
| | | **11b** | Test post-installed anchors. | --- | x |
| **MASONRY** | **VENEER OR GLASS BLOCK PARTITIONS**<br>**Note: Applies to thin brick veneer option per detail 19/A-6.01** | **14a** | Verify proportions of siteprepared mortar and grout and/or verify certification of premixed mortar. | --- | x |
| | | **14b** | inspect placement of units and construction of mortar joints | --- | x |
| | | **14c** | inspect placement of reinforcement, connectors and anchors. | --- | x |
| | | **14d** | inspect type, size, and location of anchors and all other items to be embedded in masonry including details of anchorage of masonry to structural members, frames and other construction. | --- | x |
| | | **14e** | Verify preparation, construction, and protection of masonry during cold weather (temperature below 40F) or hot weather (above 90F) | --- | x |
| | | **14f** | Test veneer bond strength | --- | x |

**Permanent Modular** Shear Wall
**Frame Building Project**
**X INDICATES TEST OR INSPECTION TO BE DONE**
**--- INDICATES NOT APPLICABLE**

| TESTS or INSPECTIONS (as listed on form DSA - 103-19 rev 7/16/20) | | | | ~~STOCKPILE~~ | CONSTRUCTION OF PERMANENT MODULAR |
|---|---|---|---|---|---|
| **MATERIAL TYPE** | | **DSA 103 ITEM #** | **DESCRIPTION** | | |
| **STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES** | **MATERIALS VERIFICATION AND TESTING** | **17a** | **·Verify Identification of all materials and:**<br>·Mill certificates indicate material properties that comply with requirements.<br>·Material sizes, types and grades comply with requirements. | x | x |
| | | **17b** | Test unidentified materials. | x | x |
| | | **17c** | Examine seam welds of HSS shapes. | x | x |
| | | **17d** | Verify and Document Steel Fabrication per DSA - Approved Construction Documents | x | x |
| | **VERIFICATION OF MATERIALS, EQUIPMENT, WELDERS, ETC.** | **19a** | Verify weld filler material identification markings per AWS designation listed on DSA- approved documents and the WPS. | x | x |
| | | **19b** | Verify weld filler material manufacturers certificate of compliance. | x | x |
| | | **19c** | Verify WPS, welder qualifications and equipment. | x | x |
| | **SHOP WELDING**<br>***See foundation embed details on S6.1 & S6.1A for shop welding of rebar** | **19.1a** | Inspect groove welds, multi-pass fillet welds, single-pass fillet welds > 5/16", plug and slot welds. | x | x |
| | | **19.1b** | Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds. | x | x |
| | | **19.1d*** | Verification of reinforcing steel weldability other than ASTM A706. | x | x |
| | | **19.1e*** | Inspect welding of reinforcing steel. | x | x |
| | **FIELD WELDING** | **19.2a** | Inspect groove welds, multi-pass fillet welds, single-pass fillet welds > 5/16", plug and welds | --- | x |
| | | **19.2b** | Inspect single-pass fillet welds ≤ 5/16. | --- | x |
| | | **19.2c** | Inspect end-welded studs (ASTM A-108) installation (including bend test) | --- | x |
| | | **19.2e** | Inspect welding of structural cold formed steel **Periodic/Special Inspector** | --- | x |
| | **NONDESTRUCTIVE TESTING** | **20a** | Ultrasonic | x | x |
| | | **20B** | Magnetic Particle | x | x |
| | **OTHER STEEL** | **23a** | Shop welding - inspect end-welding of studs (ASTM A-108) Installation (including bend test) | x | --- |
| | | **23c** | Shop welding - inspect welding of cold-formed steel **Periodic/Special Inspector.** | x | --- |

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REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4
EXP. 06/30/22
STRUCTURAL
STATE OF CALIFORNIA

DRAWN BY: ALV
CHECKED BY: GHA

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PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
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A separate project application for construction is required

MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

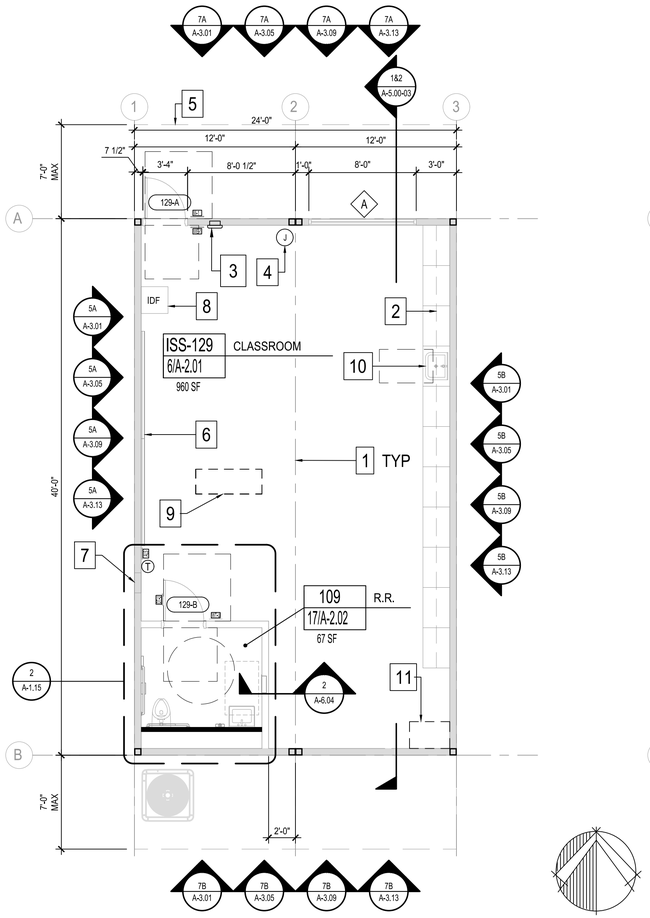
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TEST & INSPECTION GUIDELINES

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06-0142

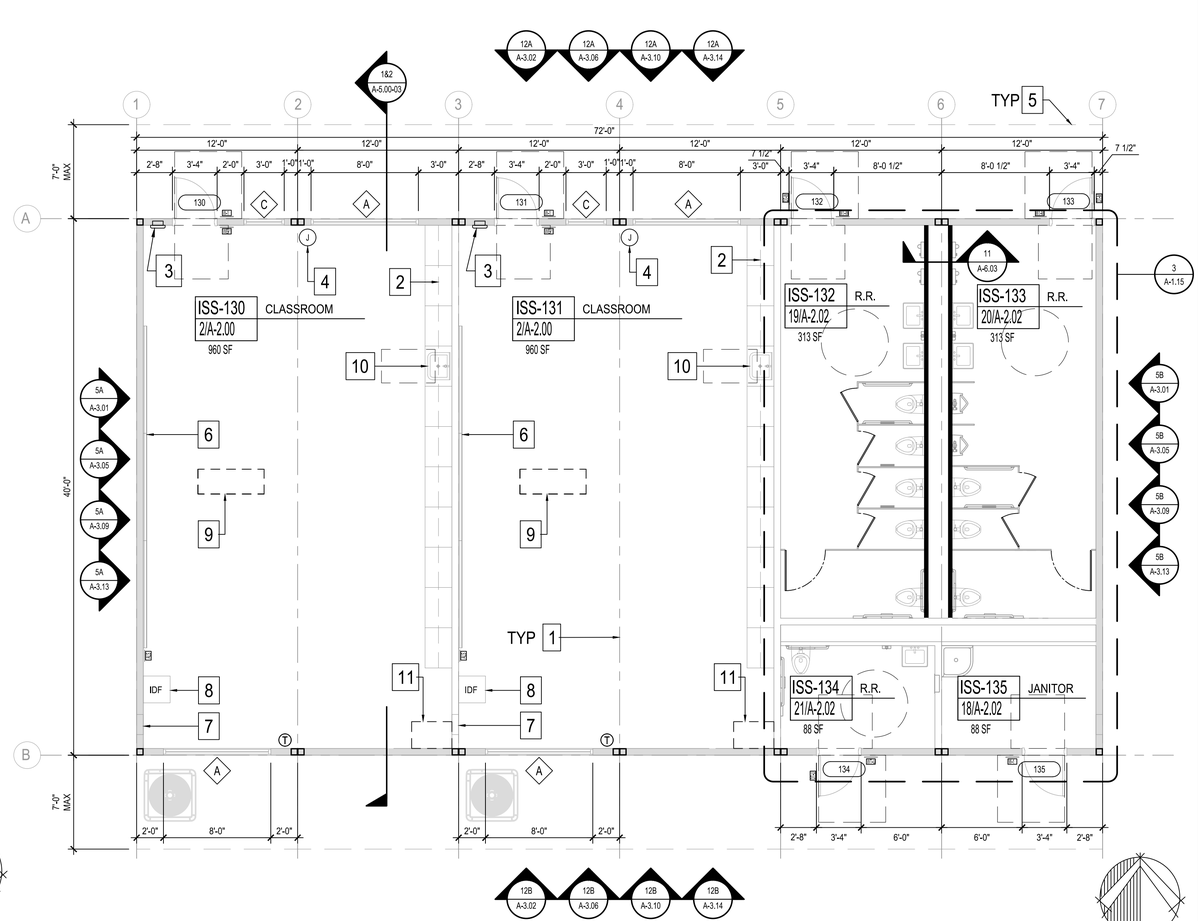
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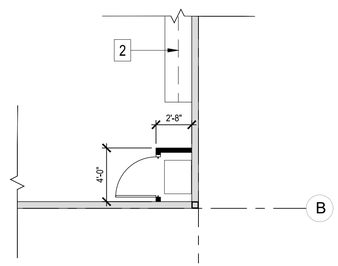

1 SOG 40 - MECHANICAL PLAN -2M-RR RESTROOM UNISEX OPTION (SPLIT SYSTEM)

SCALE: 3/16" = 1'-0"




2 SOG 40 - MECHANICAL PLAN -6M-RR+JAN RESTROOM BOYS, GIRLS & UNISEX OPTION (SPLIT SYSTEM)

SCALE: 3/16" = 1'-0"




**HVAC CLOSET OPTION**

SCALE: 3/16" = 1'-0"

## KEYNOTES

1. MODLINE
2. CABINETS & COUNTERTOP, TYP. - REFER TO 1/A-1.31
3. FIRE EXTINGUISHER - #5 DRY CHEMICAL /2A-10BC UL RATING ON WALL. SEMI-RECESSED HANDLE AT 48" A.F.F & 4" MAX PROJECTION - REFER TO 8/A-6.02
4. JUNCTION BOX FOR WALL CLOCK @ 90" A.F.F. W/ CONDUIT STUBBED INTO ATTIC REFER TO 18/A-6.02 FOR BLOCKING
5. LINE OF ROOF OVERHANG
6. 4' X 8' MARKERBOARD - REFER TO 9/A-6.02
7. ELECTRIC PANEL FLUSH WITH WALL - REFER TO 10/E-5.03
8. IDF PANEL - PROVIDE POWER +/- 84" A.F.F. - REFER TO ELECTRICAL DRAWINGS FOR MOUNTING DETAILS
9. HORIZONTAL HVAC IN ATTIC SPACE - REFER TO MECHANICAL DRAWINGS
10. ACCESSIBLE SINK IN CABINET - REFER TO 4/A-2.20
11. (ALTERNATE) VERTICAL HVAC* - REFER TO 7/A-6.03
    *VERTICAL HVAC IS ALTERNATE TO HORIZONTAL HVAC.

## LEGEND

- 2x6 EXT. WALL, STUDS @ 16" O.C. - SEE DTL 16/A-6.00, FOR MTL STUD OPTION- SEE DTL 16/A-6.04
- 2x6 EXT. WALL, STUDS @ 16" O.C. - SEE DTL 16/A-6.00, FOR MTL STUD OPTION- SEE DTL 16/A-6.04
- 2x4 INT. WALL, STUDS @ 16" O.C. - SEE DTL 16/A-6.00, FOR MTL STUD OPTION- SEE DTL 16/A-6.04
- INDICATES 30"x48" CLEAR W.C. SPACE
- INDICATES 5' DIAMETER W.C. ROTATION SPACE
- CLEARANCE AT DOORS, SHALL MEET CBC 11B-404.2.4.4, REFER TO 2/A-2.20
- WINDOW TYPE SYMBOL - REFER TO A-1.32 FOR SCHEDULE
- DOOR TYPE SYMBOL - REFER TO A-1.32 FOR SCHEDULE.
- P.H. PANIC HARDWARE
- FIRE EXTINGUISHER - REFER TO KEYNOTE 3
- ID ROOM ID; EXIT EXIT; WALL MTD RR WALL MTD RR; DOOR MTD RR DOOR MTD RR; ALS ALS; OL OL
- NOTE: REFER TO SIGN SCHEDULE - 3/A-1.31
- SPLIT SYSTEM HVAC SYSTEM REFER TO MECHANICAL DRAWINGS
- ROOF TOP HVAC SYSTEM REFER TO MECHANICAL DRAWINGS
- WALL MOUNTED HVAC SYSTEM REFER TO MECHANICAL DRAWINGS
- Q-TECH HVAC SYSTEM REFER TO MECHANICAL DRAWINGS

## GENERAL NOTES

1. REFER TO SITE DRAWINGS FOR ACCESSIBLE DOOR LANDINGS AND PATH OF TRAVEL.
2. STANDARD CLASSROOM MAY REQUIRE ADDITIONAL PROVISIONS - REFER TO SITE ADAPTATION DRAWINGS FOR ADDITIONAL REQUIREMENTS EX: FIREWALL & SPRINKLERS
3. FOR VARIOUS MODULE WIDTH LAYOUTS REFER TO DRAWINGS A-1.00, THROUGH A-1.14
4. OCCUPANT LOAD SHALL BE POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT. OCCUPANT LOAD SIGN SHALL BE PROVIDED BY THE SCHOOL DISTRICT U.O.N. FOR ANY AREA EXCEEDING 49 OCCUPANTS.
5. OVERHANG MAY BE USED IN VARYING WIDTHS - UP TO 7'-0" FOR BASIC CLASSROOM CONFIGURATION REFLECTED CEILING PLANS AND NOTES REFER TO A-1.21 THROUGH A-1.30D.
6. ANY SITE ADAPTATIONS SHALL BE ENCLOSED. THIS PC IS NOT APPROVED FOR SCIENCE VOCATIONAL SPECIAL HAZARDS.
7. CLASSROOM USED FOR DAYCARE SHALL BE SUBMITTED FOR REVIEW FOR EXITING ON SITE SPECIFIC PLANS.
8. FOR THIN BRICK VENEER EXTERIOR OPTIONAL FINISH SEE 19/A-6.01
9. WOOD FRAMING OPTION SEE 16/A-6.00
10. METAL FRAMING OPTION SEE 16/A-6.04

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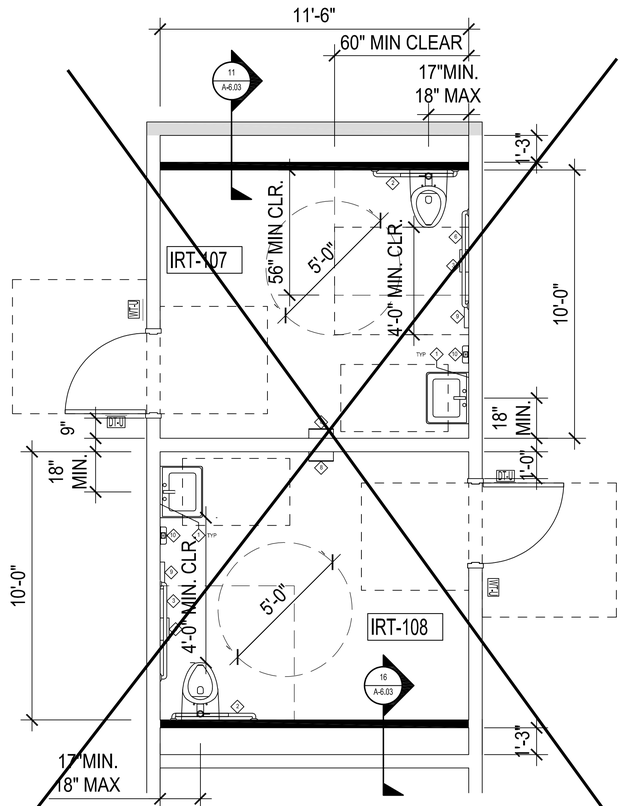
MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
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**FLOOR PLANS: 2M-RR & 6M-RR (SPLIT SYSTEM)**

DSA APP NO.
02-119613

PROJECT NO.
06-0142

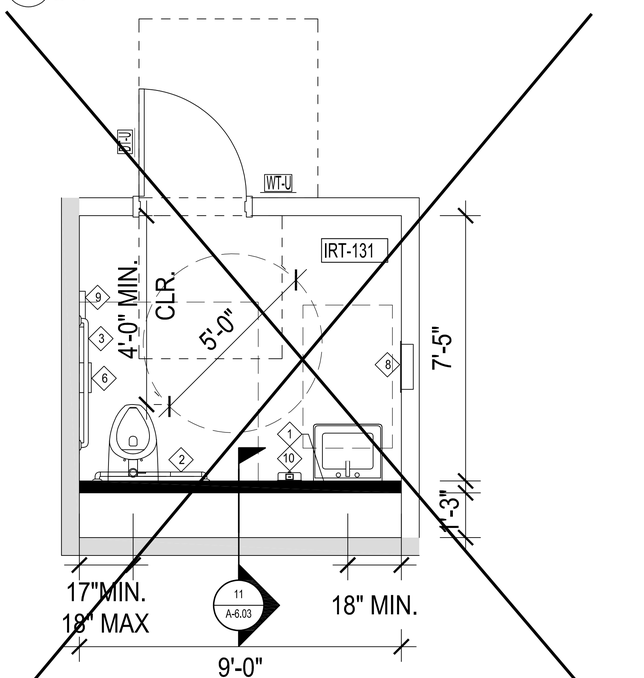
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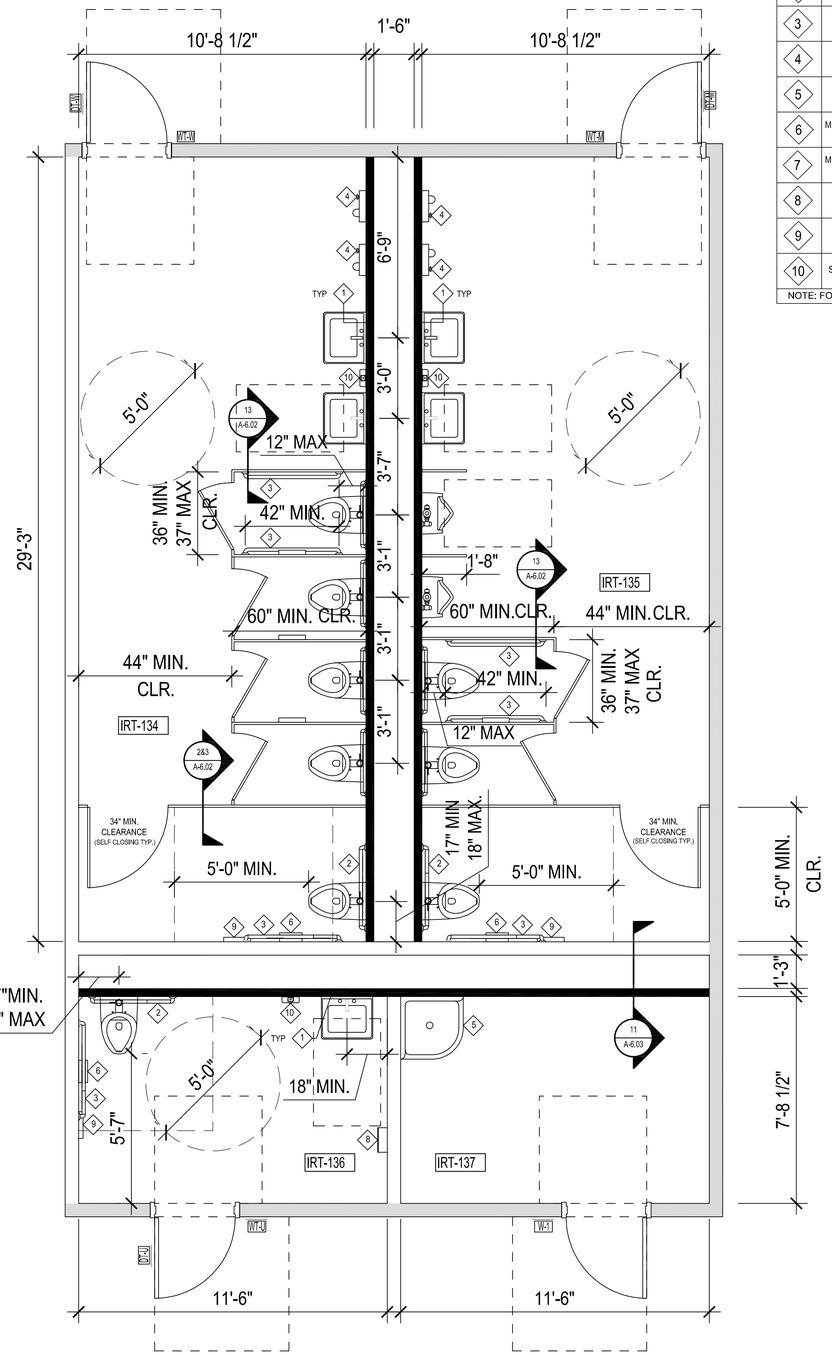

## 1 ENLARGED PARTIAL PLAN

3/8" = 1'-0"




## 2 ENLARGED PARTIAL PLAN

1/2" = 1'-0"




## 3 ENLARGED PARTIAL PLAN

3/8" = 1'-0"

## ACCESSORY SCHEDULE

| MARK | DESCRIPTION | MFR. | MODEL NO. | REMARKS |
|---|---|---|---|---|
| 1 | MIRROR (18" X 30") | BOBRICK | B-290 | SURFACE MTD |
| 2 | GRAB BAR | BOBRICK | B-6806 SERIES | 36" LONG |
| 3 | GRAB BAR | BOBRICK | B-6806 SERIES | 42" LONG |
| 4 | HAND DRYER (RECESSED) | PINNACLE | PDC-R10 | 4" MAX PROJ. |
| 5 | MOP SINK | FLORSTONE | MSR-2424 | |
| 6 | MULTI-ROLL TISSUE DISPENSER | BOBRICK | B-3888 | RECESSED |
| 7 | MULTI-ROLL TISSUE DISPENSER | BOBRICK | B-4288 | SURFACE MTD. |
| 8 | PAPER TOWEL DISPENSER | BOBRICK | B-262 | 4" MAX PROJ. |
| 9 | SEAT COVER DISPENSER | BOBRICK | B-221 | |
| 10 | SOAP DISPENSER | BOBRICK | B-4112 | SURFACE MTD. |

NOTE: FOR MOUNTING HEIGHTS & REQUIREMENTS SEE DTL 4/A-2.20 AND 6/A-2.20

## LEGEND

2x6 EXT. WALL, STUDS @ 16" O.C. - SEE DTL 16/A-6.00, FOR MTL STUD OPTION- SEE DTL 16/A-6.04

2x6 EXT. WALL, STUDS @ 16" O.C. - SEE DTL 16/A-6.00, FOR MTL STUD OPTION- SEE DTL 16/A-6.04

2x4 INT. WALL, STUDS @ 16" O.C. - SEE DTL 16/A-6.00, FOR MTL STUD OPTION- SEE DTL 16/A-6.04

48" 30" — INDICATES 30"x48" CLEAR W.C. SPACE

INDICATES 5' DIAMETER W.C. ROTATION SPACE

12" MIN. — 4'-0"(Min.) — 5'-0"(Min.) — CLEARANCE AT DOORS, SHALL MEET CBC 11B-404.2.4.4, REFER TO 2/A-2.20

18" MIN. @ INT. 24" MIN. @ EXT.

| ID-1 | EC-2 | WT-4 | DR-3 | AL-3 | OL |
|---|---|---|---|---|---|
| ROOM ID | EXIT | WALL MTD RR | DOOR MTD RR | ALS | OL |

NOTE: REFER TO SIGN SCHEDULE - 3/A-1.31

SPLIT SYSTEM HVAC SYSTEM REFER TO MECHANICAL DRAWINGS

ROOF TOP HVAC SYSTEM REFER TO MECHANICAL DRAWINGS

WALL MOUNTED HVAC SYSTEM REFER TO MECHANICAL DRAWINGS

Q-TECH HVAC SYSTEM REFER TO MECHANICAL DRAWINGS

## DOOR ACCESSIBLE STALLS
(AMBULATORY INCLUDED)

1. BE SELF-CLOSING
2. HAVE HARDWARE COMPLYING WITH 11B-404.2.7 & 11B-309.4
3. A DOOR PULL SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. (11B-604.8.1.)
4. AT LEAST ONE SIDE PARTITION OF THE ACCESSIBLE STALL PROVIDED A TOE CLEARANCE OF 9" MIN. A.F.F. AND 6" MIN BEYOND THE COMPARTMENT SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS.
5. COMPARTMENTS FOR CHILDREN'S USE SHALL PROVIDE TOE CLEARANCE OF 12" MIN A.F.F.
6. PARTITION COMPONENTS AT TOE CLEARANCES SHALL BE SMOOTH WITHOUT SHARP OR ABRASIVE SURFACES. (11B-604.8.1.4)
7. 32" CLEAR WIDTH OPENING TO AMBULATORY COMPARTMENT MEASURED TO THE FACE OF THE DOOR OPEN 90 DEGREES.

## GENERAL NOTES

1. REFER TO SITE DRAWINGS FOR ACCESSIBLE DOOR LANDINGS AND PATH OF TRAVEL.
2. STANDARD CLASSROOM MAY REQUIRE ADDITIONAL PROVISIONS - REFER TO SITE ADAPTATION DRAWINGS FOR ADDITIONAL REQUIREMENTS EX: FIREWALL & SPRINKLERS
3. FOR VARIOUS MODULE WIDTH LAYOUTS REFER TO DRAWINGS A-1.01, THROUGH A-1.14
4. OCCUPANT LOAD SHALL BE POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT. OCCUPANT LOAD SIGN SHALL BE PROVIDED BY THE SCHOOL DISTRICT U.O.N. FOR ANY AREA EXCEEDING 49 OCCUPANTS.
5. OVERHANG MAY BE USED IN VARYING WIDTHS - UP TO 7'-0" FOR BASIC CLASSROOM CONFIGURATION REFLECTED CEILING PLANS AND NOTES REFER TO A-1.21 THROUGH A-1.30D.
6. ANY SITE ADAPTATIONS SHALL BE ENCLOSED. THIS PC IS NOT APPROVED FOR SCIENCE VOCATIONAL SPECIAL HAZARDS.
7. CLASSROOM USED FOR DAYCARE SHALL BE SUBMITTED FOR REVIEW FOR EXITING ON SITE SPECIFIC PLANS.
8. 56" MIN. CLR. @ WALL MOUNTED WC & 59" MIN. CLR. @ FLOOR MOUNTED

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40'-0" WIDE MODULAR BUILDING

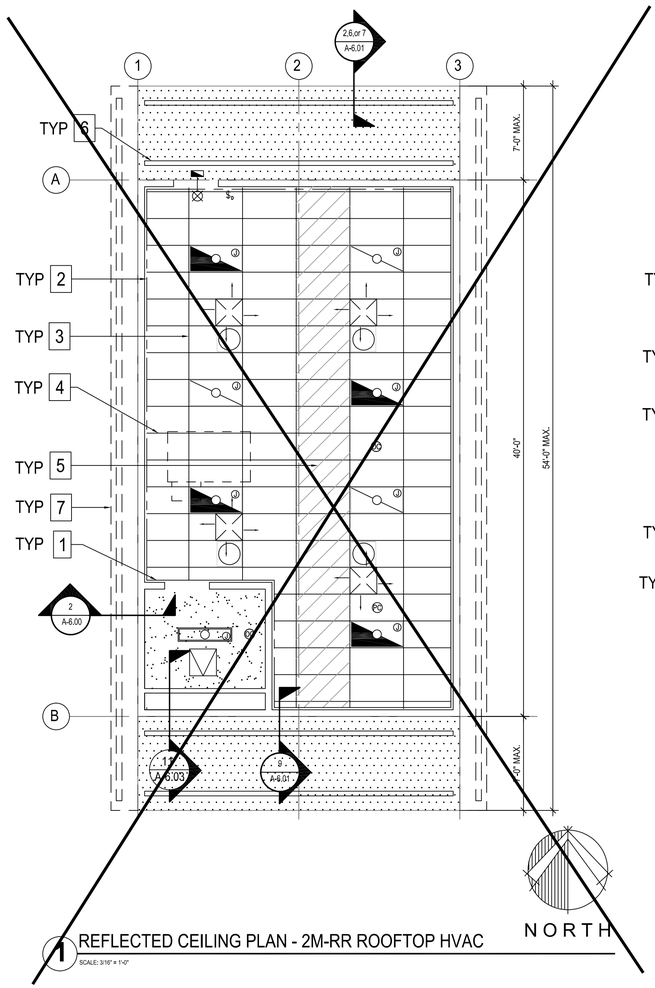
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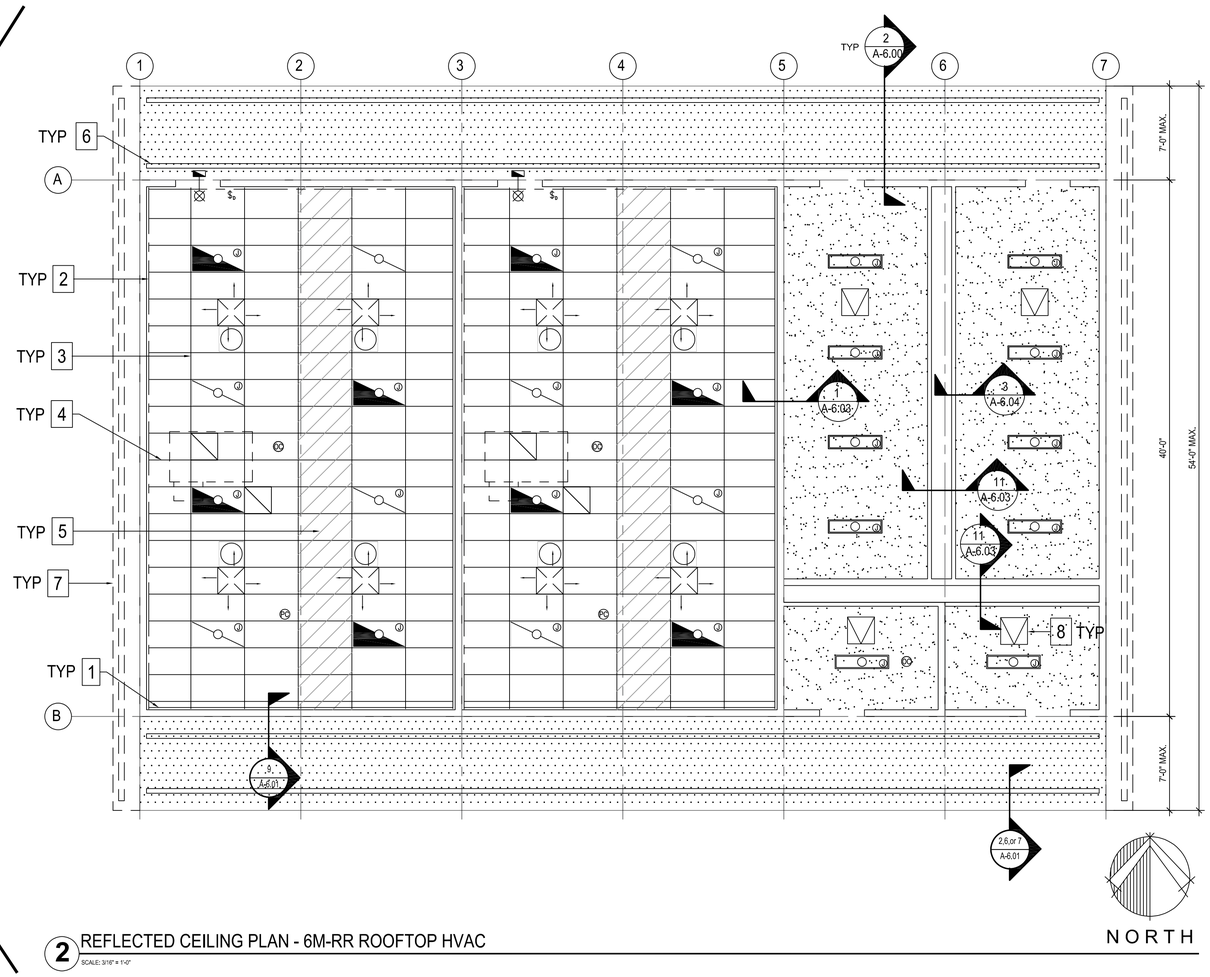
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1 REFLECTED CEILING PLAN - 2M-RR ROOFTOP HVAC

SCALE: 3/16" = 1'-0"

NORTH




2 REFLECTED CEILING PLAN - 6M-RR ROOFTOP HVAC

SCALE: 3/16" = 1'-0"

NORTH

## KEYNOTES

1. SOLID LINE INDICATES FIXED END CONDITION - REFER TO DET 3A/A-1.20
2. DASHED LINE INDICATES FREE END CONDITION - REFER TO DETAIL 3B/A-1.20
3. T-BAR MAIN RUNNER AT 48" O.C.
4. T-BAR CROSS TEE AT 24" O.C.
5. SHADING INDICATES FIELD INSTALLED CEILING TILES
6. 4" WIDE VENTILATING SCREED, SECURE TO EACH ROOF JOIST WITH #12 WOOD SCREWS - REFER TO 9&13/A-6.01
7. OPTIONAL SIDE OVERHANG UP TO 2'-0" WH/ OCCURS - SEE DETAIL 10/A-6.01
8. 24"x24" ACCESS HATCH

## LEGEND

- 1/2" DENSGLASS GOLD OVER 1/2" PLYWOOD ELASTOMERIC FINISH - REFER TO DETAIL 14/A-6.01. TESTED IN ACCORDANCE WITH ASTM E136
- GYP. BD. OVER 2x6 CEILING FRAMING AT 16" O.C. - REFER TO DETAIL 2/A-6.00
- FIELD INSTALLED CEILING TILE PANEL
- 2' x 4' ACOUS. LAY-IN CEILING SYSTEM
- 2' x 4' RECESSED CEILING LIGHT
- 2' x 4' RECESSED CEILING LIGHT W/ 90 MIN. BACKUP
- 1' x 4' SURFACE CEILING LIGHT
- MECHANICAL AIR SUPPLY REFER TO MECHANICAL DRAWINGS
- MECHANICAL AIR RETURN REFER TO MECHANICAL DRAWINGS
- OPTIONAL SOLO TUBE WHERE OCCURS REFER TO DETAIL 9/A-6.04
- 24" x 24" ACCESS HATCH REFER TO 17/A-6.04

## GENERAL NOTES

A. INTERIOR AND EXTERIOR LIGHTING SYSTEMS AND CONTROLS SHALL BE COMPLIANT WITH THE 2019 CALIFORNIA ENERGY CODE. PROVIDE ALL COMPLIANCE FORMS AS REQUIRED BY CODE.

B. ALL COLORS TO BE SELECTED AT LATER DATE BY ARCHITECT

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

D. THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635

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

F. REFER TO MECHANICAL DRAWINGS FOR HARD LID CEILING VENTILATION 9/M5.01

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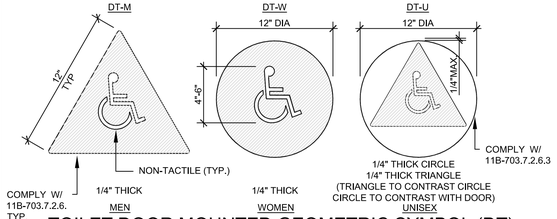
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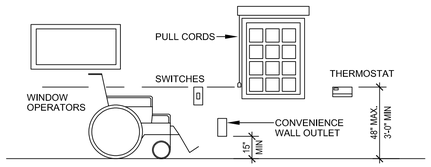



## TOILET DOOR MOUNTED GEOMETRIC SYMBOL (DT)

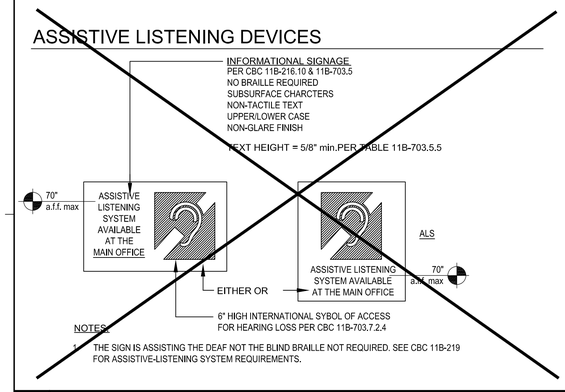
FOR TOILET DOOR SIGNAGE, EDGES AND VERTICES ON GEOMETRIC SYMBOLS (11B-703.7.2.6.4): EDGES SHALL BE EASED OR ROUNDED AT 1/16 INCH (1.59 MM) MINIMUM, OR CHAMFERED AT 1/8 INCH (3.2 MM) MAXIMUM. VERTICES SHALL BE RADIUSES BETWEEN 1/8 INCH (3.2 MM) MINIMUM AND 1/4 INCH (6.4 MM) MAXIMUM.

## CONTROLS

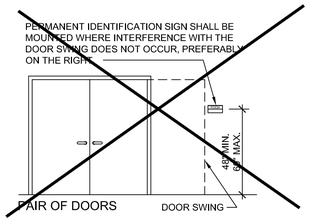
1. TO "TOP OF BOX" THE OPERATING HANDEL OF SWITCHED USED TO CONTROL LIGHTING, RECEPTACLE OUTLETS, APPLIANCES, COOLING OR HEATING, AND VENTILATION EQUIPMENT MUST NOT EXCEED A MAXIMUM OF 48".
2. OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5LBS




## ASSISTIVE LISTENING DEVICES

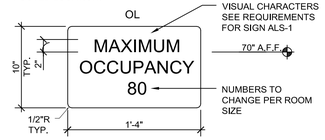


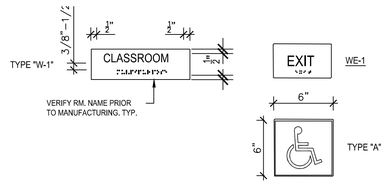

## WALL MOUNTED SIGNAGE AT FUNCTIONAL ROOMS

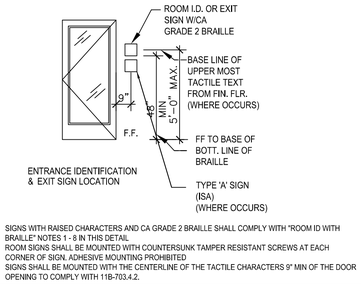



## OCCUPANCY LOAD SIGN (OL)

SEE FLOOR PLAN & INTERIOR ELEVATION FOR POSTED LOCATION.

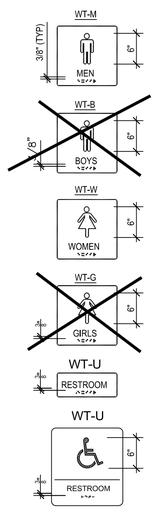


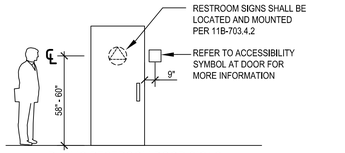




1. SIGNS WITH RAISED CHARACTERS AND CA GRADE 2 BRAILLE SHALL COMPLY WITH "ROOM ID WITH BRAILLE" NOTES 1 - 8 IN THIS DETAIL
2. ROOM SIGNS SHALL BE MOUNTED WITH COUNTERSUNK TAMPER RESISTANT SCREWS AT EACH CORNER OF SIGN. ADHESIVE MOUNTING PROHIBITED
3. SIGNS SHALL BE MOUNTED WITH THE CENTERLINE OF THE TACTILE CHARACTERS 9" MIN OF THE DOOR OPENING TO COMPLY WITH 11B-703.4.2.

## WALL MOUNTED TOILET ROOM SIGN




PUBLIC RESTROOM DOOR SIGNS AND SYMBOL LOCATION

TABLE 11B-703.3.1
BRAILLE DIMENSIONS

| MEASUREMENT RANGE | MINIMUM INCHES MAXIMUM INCHES |
|---|---|
| Dot base diameter | 0.059 (1.5mm) to 0.063 (1.6mm) |
| Distance between two dots in the same cell [1] | 0.100 (2.5mm) |
| Distance between corresponding dots in adjacent cell [1] | 0.300 (7.6mm) |
| Dot height | 0.035 (0.6mm) to 0.037 (0.9mm) |
| Distance between corresponding dots from one cell directly below [1] | 0.395 (10mm) to 0.400 (10.2mm) |

1. Measured center to center

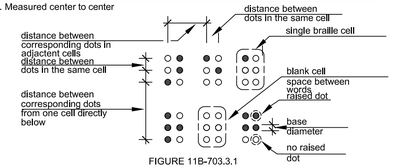
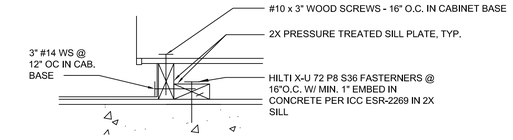


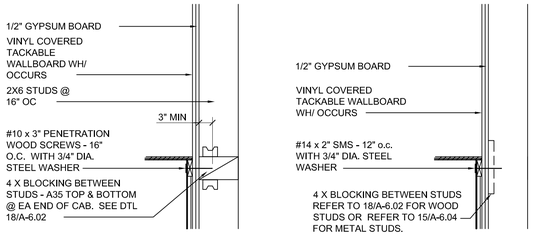

FIGURE 11B-703.3.1
BRAILLE MEASUREMENT

## ROOM ID WITH BRAILLE

1. RAISED CHARACTER (11B-703.2): CHARACTERS SHALL BE 1/32 INCH MINIMUM ABOVE THEIR BACKGROUND, SHALL BE SAN SERIF UPPERCASE. CHARACTERS ACCOMPANIED BY CALIFORNIA GRADE 2 BRAILLE.
2. CHARACTER HEIGHT (11B-703.2.5): CHARACTERS 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"
3. FINISH AND CONTRAST: CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
4. CHARACTER PROPORTIONS (11B-703.2.4): CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPER CASE LETTER "I".
5. STROKE THICKNESS (11B-703.2.6): STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE CHARACTER.
6. CHARACTER SPACING (11B-703.2.6): CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINT OF ADJACENT RAISED CHARACTER WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARCTERS SHALL BE 1/16 MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTION, AND 1/8 MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTON. CHARACTERS SHALL BE SEPARATED FROM THE BORDERS AND DECORATIVE ELEMENTS 3/8 INCH MINIMUM.
7. LINE SPACING (11B-703.3): SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT.
8. BRAILLE (11B-703.3): CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCH ABOVE THE BACKGROUND. REFER TO TABLE 11B-703.3.1 ABOVE FOR DIMENSIONS AND MEASUREMENT. BRAILLE DOTS SHALL BE DOMED OR ROUNDED. ROUNDED OR DOMED CALIFORNIA BRAILLE DOTS, EACH DISTINCT AND SEPARATE. DOTS WITH STRAIGHT SIDES AND FLAT TOPS ARE NOT COMPLIANT.

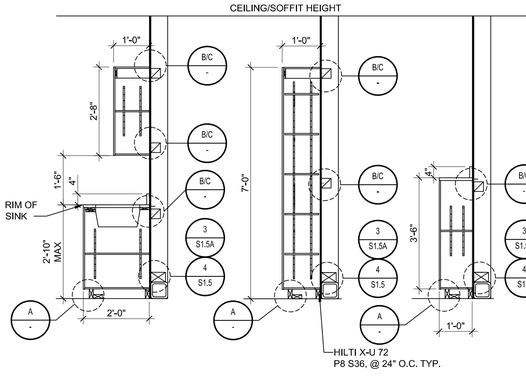



## A CONCRETE FLOOR




## B AT WALL - WOOD

## C AT WALL - METAL




NOTE:
SEE GENERAL NOTES 4/A-1.31 CABINET WORK FOR MORE INFORMATION

## 1 CAB. ATTACHMENT

## 3 SIGN TYPES & NOTES

## 2 NOT USED

## 4 GENERAL NOTES

GENERAL
ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS (C.C.R.), NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL OF THE D.S.A. AND THE DISTRICT ARCHITECT.

SCOPE OF WORK
WORK CONSISTS OF MANUFACTURING IN A PLANT, AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON THE DRAWINGS.
1. ALL REQUIREMENTS OF TITLES 19 AND 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS (C.C.R.) RELATED INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPILED WITH AND SHALL INCLUDE:
A. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
B. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION , WELDING, MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICT.
C. ON-SITE INSPECTION OF THE BUILDING ELECTRICAL AND PLUMBING AT THE TIME OF BUILDING INSTALLATION SHALL BE PERFORMED BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
D. OTHER TESTS AND INSPECTIONS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.

WORK NOT INCLUDED
1. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION TO THE BUILDING UNLESS NOTED OTHERWISE ON THE DRAWINGS
2. ALL LEVELING, GRADING, AND OTHER SITE PREPARATION, EXCEPT CONCRETE OR WOOD LEVELING STRIPS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
3. FIRE ALARM SYSTEM, FIRE EXTINGUISHER, PROGRAM BELL, CLOCK, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV SYSTEM UNLESS OTHERWISE NOTED ON THE DRAWINGS.

ACCESSIBILITY TO SITE
1. SHALL BE SCHOOL DISTRICTS RESPONSIBILITY TO PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS; REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS, ETC. NECESSARY TO COMPLETELY CONSTRUCT MODULAR BUILDING

TRANSPORTATION
1. DURING THE ORIGINAL FACTORY-TO-SITE TRANSPORTATION, OR ANY FUTURE RELOCATION TRANSPORTATION, TRANSPORTER SHALL USE MANUFACTURERS REQUIREMENTS FOR BRACING, AND SHALL USE BRACING COMPONENTS PROVIDED BY THE MANUFACTURER.

INSULATION
1. MATERIALS
A. WALLS AND FLOORS - R-19 KRAFT FACED 'CertainTeed' ASTM C 665, TYPE II, CLASS C, CATEGORY 1. OR EQUAL.
B. INTERIOR WALLS - R-11, UNLESS OTHERWISE NOTED
C. ATTIC - R-30 KRAFT FACED 'CertainTeed' ASTM C 665. TYPE II, CLASS C, CATEGORY 1, OR EQUAL.

WINDOWS
1. PRODUCT
A. HOLLOW METAL FRAME - BRONZE ANODIZED FINISH - DUAL GLAZED - LOW "E"

DOORS AND FRAMES
1. PRODUCTS
A. DOORS EXTERIOR
18 GAUGE HOLLOW METAL DOOR WITH SOUND INSULATION AS MANUFACTURED BY "REPUBLIC" OR EQUAL.
B. FRAMES EXTERIOR
16 GAUGE HOLLOW METAL FRAME - 3'-0" X 7'-0" - 8-1/2" FRAME WIDTH AS MANUFACTURED BY "REPUBLIC" OR EQUAL.
C. DOORS INTERIOR
LEGACY WALNUT SOLID CORE DOORS - FRAMES "TIMELY"

ROOFING
1. PRODUCT
A. 24 GAUGE METAL SEAM ROOF SYSTEM - POLYESTER RESIN COLOR COAT-24" PANEL VERTICAL SEAM AS MANUFACTURED BY WESTERN SALES DIVISION, METAL SALES MANUFACTURING CORPORATION.
B. 60 MIL TPO ROOFING O/ 1/2" DENS GLASS GOLD O/ 5/8" PLYWOOD DECKING
60 MIL ROOFING PRODUCT:

VINYL COVERED TACKBOARD
1. PRODUCT
A. 1/2" FIBERBOARD WITH DECORATIVE VINYL OVERLAY - 15 oz. PSF MINIMUM DENSITY AS MANUFACTURED BY CHATFIELD-CLARK OR EQUAL.

CABINETWORK
1. PRODUCT
A. CABINETS SHALL BE CONSTRUCTED AS REQUIRED TO CONFORM TO THE REQUIREMENTS OF THE WIC CUSTOM GRADE. ALL CABINETWORK SHALL HAVE LAMINATED PLASTIC FACES AND FRONTS - COUNTERTOPS SHALL BE LAMINATED PLASTIC WITH INTEGRAL 4" BACKSPLASH - CABINET INTERIORS SHALL BE STANDARD WHITE MELAMINE ON 3/4" PARTICLE BOARD OR MDF. SINK CABINETS SHALL CONFORM TO WC 153 OR 154. ALL DOOR AND DRAWER PULLS SHALL BE U-SHAPED WIRE TYPICAL.

CARPET
1. PRODUCT
A. CARPET SHALL CONFORM TO STATE OF CALIFORNIA SPECIFICATION COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2 DENSITY 2600, DIRECT GLUE DOWN - MINIMUM WEIGHT = 25 oz. CARPET SHALL COMPLY WITH CBC SECTION 804.2 CARPET SHALL HAVE LEVEL LOOP, TEXTURED LOOP, LEVEL CUT OR LEVEL CUT/UNCUT PILE TEXTURE AND PILE HEIGHT OF 1/2" MAX. CARPET NEEDS TO MATCH CAMPUS STANDARD INTERFACE TILE SQUARES. CARPET SHALL COMPLY WITH SECTION 11B-302.2. THE ENTIRE LENGTH OF EXPOSED EDGES SHALL HAVE EDGE TRIM COMPLYING WITH 11B-303 AND BE FASTENED TO THE FLOOR SURFACE.

RESILIENT FLOORING
1. PRODUCT
A. ARMSTRONG OR EQUAL VINYL COMPOSITION TILE - 12" X 12" X 1/8"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119613 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022

APPROVALS
FILE # APPLICATION #

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118526 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CO ☑
DATE: 12/14/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
GENERAL NOTES & CASEWORK DETAILS

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
**A-1.31**

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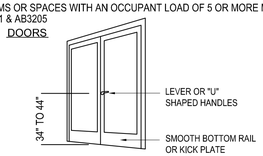
# DOOR SCHEDULE

| DOOR NO. | DOOR TYPE | DOOR SIZE (EACH LEAF) | DOOR MAT'L | FRAME TYPE | FRAME MAT'L | RATING | HDWR | DETAILS L&R/JAMB | DETAILS HEAD |
|---|---|---|---|---|---|---|---|---|---|
| 101 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 102A | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 2 | 13/A-6.00 | 8/A-6.00 |
| 102B | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 2 | 13/A-6.00 | 8/A-6.00 |
| 103 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 104 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 105 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 106 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 107 | J | 3'-0" X 7'-0" | SC | 2 | HM | – | 9 | 15/A-6.00 | 8/A-6.00 |
| 108 | J | 3'-0" X 7'-0" | SC | 2 | TM | – | 9 | 15/A-6.00 | 15/A-6.00 |
| 109A | H | 3'-0" X 7'-0" | SC | 2 | TM | – | 6 | 15/A-6.00 | 15/A-6.00 |
| 109B | H | 3'-0" X 7'-0" | SC | 2 | HM | – | 6 | 13/A-6.00 | 8/A-6.00 |
| 110 | C | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 111 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 112 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 113 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 114 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 115 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 116A | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 2 | 13/A-6.00 | 8/A-6.00 |
| 116B | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 2 | 13/A-6.00 | 8/A-6.00 |
| 117 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 118 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 119 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 120 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 121 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 122 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 123 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 124A | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 2 | 13/A-6.00 | 8/A-6.00 |
| 124B | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 2 | 13/A-6.00 | 8/A-6.00 |
| 125 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 126 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 127 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 128 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 129 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 130 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 131 | J | 3'-0" X 7'-0" | SC | 2 | TM | – | 9 | 15/A-6.00 | 15/A-6.00 |
| 132 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 133 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 134 | E | 3'-0" X 7'-0" | HM | 1 | HM | – | 4 | 13/A-6.00 | 8/A-6.00 |
| 135 | E | 3'-0" X 7'-0" | HM | 1 | HM | – | 5 | 13/A-6.00 | 8/A-6.00 |
| 136 | A | 3'-0" X 7'-0" | HM | 1 | HM | – | 3 | 13/A-6.00 | 8/A-6.00 |
| 137 | E | 3'-0" X 7'-0" | HM | 1 | HM | – | 4 | 13/A-6.00 | 8/A-6.00 |
| 138 | E | 3'-0" X 7'-0" | HM | 1 | HM | – | 4 | 13/A-6.00 | 8/A-6.00 |
| 139 | A | 3'-0" X 7'-0" | HM | 1 | HM | – | 3 | 13/A-6.00 | 8/A-6.00 |
| 140 | J | 3'-0" X 7'-0" | SC | 2 | TM | – | 7 | 15/A-6.00 | 15/A-6.00 |
| 141 | E | 3'-0" X 7'-0" | HM | 1 | HM | – | 4 | 13/A-6.00 | 8/A-6.00 |
| 142 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 143 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 144 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 145 | E | 3'-0" X 7'-0" | HM | 1 | HM | – | 4 | 13/A-6.00 | 8/A-6.00 |
| 146 | E | 3'-0" X 7'-0" | HM | 1 | HM | – | 4 | 13/A-6.00 | 8/A-6.00 |
| 147 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 148 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |
| 149 | B | 3'-0" X 7'-0" | HM | 1 | HM | – | 1 | 13/A-6.00 | 8/A-6.00 |

## DOOR HARDWARE

1. TYPE OF LOCK OR LATCH. EXIT DOOR SHALL OPEN FROM THE INSIDE WITHOUT A KEY,OR ANY SPECIAL KNOWLEDGE OR EFFORT.
2. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS. PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE THAT PROVIDES PASSAGE WITHOUT GRASPING, PINCHING, OR TWISTING OF THE WRIST. LOCKED EXIT DOORS SHALL OPERATE IN EGRESS DIRECTION.
3. EXIT DOOR HARDWARE SHALL BE AN APPROVED TYPE AND TESTED IN ACCORDANCE WITH THE PROCEDURES ESTABLISHED BY STATE FIRE MARSHAL STANDARDS 33.2 AND 33.3
4. EFFORT TO OPERATE DOORS. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED FIVE (5) LBS. FOR EXTERIOR AND INTERIOR DOORS, SUCH PULL OR PUSH EFFORTS BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS.
5. CONSTRUCTION. THE BOTTOM 10 INCHES OF ALL DOORS, EXCEPT AUTOMATIC SLIDING DOORS, SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
6. DOOR SIZE. EVERY REQUIRED EXIT DOORWAY SHALL BE OF A SIZE TO PERMIT INSTALLATION OF A DOOR NOT LESS THAN 3 FEET IN WIDTH AND NOT LESS THAN 6 FEET, 8 INCHES IN HEIGHT. ALL DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE EXIT WAY IS NOT LESS THAN 32 INCHES.
7. PAIR OF DOORS. WHERE A PAIR OF DOORS IS UTILIZED AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
8. AUTOMATIC DOORS. WHEN AN AUTOMATIC DOOR OPERATOR IS UTILIZED TO OPERATE A PAIR OF DOORS, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
9. ALL DOORS TO ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 5 OR MORE MUST BE EQUIPPED WITH HARDWARE THAT IS LOCKABLE FROM INSIDE. CBC 1010.1.11 & AB3205

DOORS

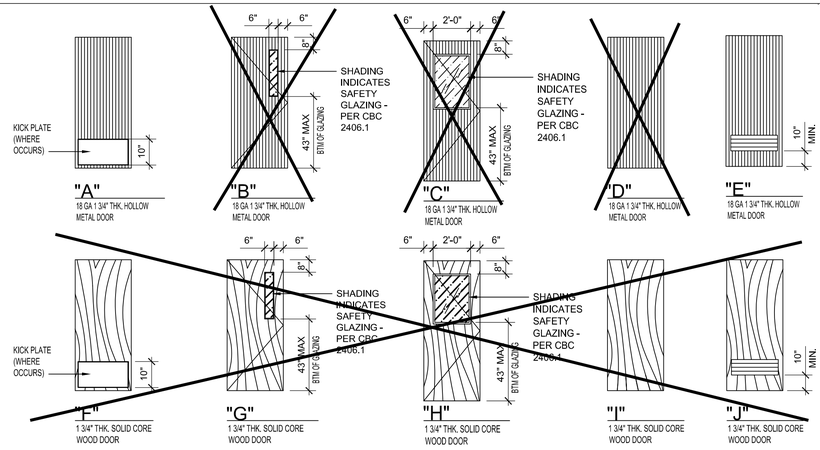




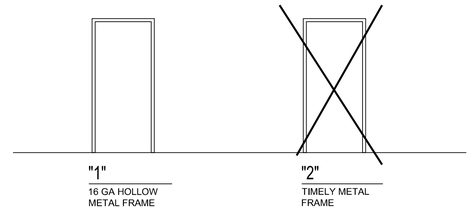
PUSH - PULL


LEVER

# DOOR TYPE




# FRAME TYPES




## DOOR MATERIAL:

| | |
|---|---|
| HM | HOLLOW METAL |
| SC | SOLID CORE WOOD |
| AL | ALUMINUM |

## FINISHES:

| | |
|---|---|
| P | PAINT, SEE SPECIFICATIONS |
| ST | STAIN AND SEAL |
| AA | ANODIZED ALUMINUM |
| FF | FACTORY FINISH |
| G1-T | MONOLITHIC TEMPERED CLEAR GLASS |
| IG1-T | INSULATED GLASS UNIT, TINTED TEMPERED GLASS |

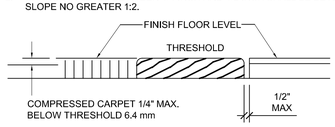
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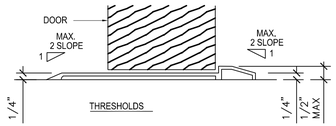
A. 45 MINUTE FIRE RATED DOOR

# THRESHOLDS

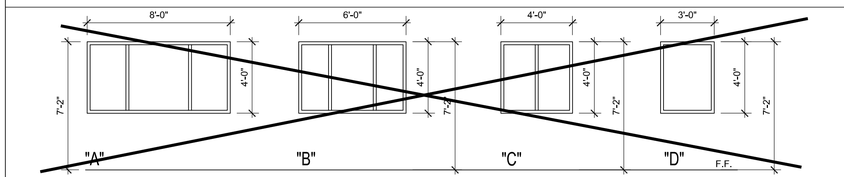
THRESHOLDS:

1. THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2 INCHES LOWER THAN THE THRESHOLD OF THE DOORWAY.
2. CHANGE IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER 1:2.




# WINDOW TYPE & SCHEDULE




## WINDOW SCHEDULE

| SYMBOL | WIDTH | HT. | TYPE | GLAZING | FINISH | FRAME | HEAD DTL | JAMB DTL | SILL DTL |
|---|---|---|---|---|---|---|---|---|---|
| A | 8'-0" | 4'-0" | SLIDER | 1/4" (MIN) DUAL GLAZED LOW "E" | BRONZE | ALUMINUM | EXT:7/A-6.00 OR 7/A-6.04 | EXT:12/A-6.00 OR 12/A-6.04 | EXT:12/A-6.00 OR 12/A-6.04 |
| B | 6'-0" | 4'-0" | SLIDER | 1/4" (MIN) DUAL GLAZED LOW "E" | BRONZE | ALUMINUM | INT:14/A-6.00 OR 18/A-6.04 | | INT: 14/A-6.00 18/A-6.04 |
| C | 4'-0" | 4'-0" | SLIDER | 1/4" (MIN) DUAL GLAZED LOW "E" | BRONZE | ALUMINUM | | | |
| D | 3'-0" | 4'-0" | FIXED | 1/4" (MIN) DUAL GLAZED LOW "E" | BRONZE | ALUMINUM | | | |

## GLASS AND GLAZING NOTES:

1. GLAZING IN HAZARDOUS LOCATIONS DESCRIBED IN CBC SECTION 2406.3, SHALL BE TEMPERED SAFETY GLASS. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.
2. EACH LIGHT SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND THICKNESS OF GLASS. EACH LIGHT OF TEMPERED SAFETY GLASS SHALL HAVE A PERMANENT IDENTIFICATION LABEL WHICH SHALL BE VISIBLE WHEN THE LIGHT IS INSTALLED.
3. FRAMING PERIMETER DIMENSIONS ARE OPENING SIZES, CONTRACTOR TO VERIFY EXACT FRAME DIMENSIONS.
4. CLEAR FLOOR SPACE THAT COMPLIES WITH CBC 11B-305 SHALL BE PROVIDED WHERE OPERABLE HARDWARE EXISTS, MAX OPERATING HEIGHT SHALL COMPLY WITH CBC 11B-308 AND BE NO HIGHER THAN 48" A.F.F. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND FORCE REQUIRED TO ACTIVATE SHALL BE 5 LBS. MAX.
5. TEMPORARY NFRC LABELS SHALL STAY ON THE FENESTRATION PRODUCTS UNTIL THE INSPECTOR HAS VERIFIED THAT THE INSTALLED U-FACTOR, SHGC, AND VT MATCH THE WINDOW SCHEDULE.
6. WINDOWS TO COMPLY WITH ASCE 7-16, 13.5.9 (MIN. ¼" WINDOW GLAZING GAP) (0.52 U FACTOR/0.33SHGC/0.60 VT).
7. SKYLIGHTS TO COMPLY WITH 0.84 U FACTOR / 0.55 SHGC.

# INTERIOR FINISH SCHEDULE

| ROOM NUMBER | ROOM TYPE | FLOOR MAT | FLOOR FIN | BASE MAT | BASE FIN | BASE HT | WAINSCOT MAT | WAINSCOT FIN | WAINSCOT HT | WALLS NORTH MAT | WALLS NORTH FIN | WALLS EAST MAT | WALLS EAST FIN | WALLS SOUTH MAT | WALLS SOUTH FIN | WALLS WEST MAT | WALLS WEST FIN | CEILING MAT | CEILING FIN | CEILING HT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| - | TYP. CLASSROOM | SV/CPT | FF | RTB | FF | 4" | - | - | - | TB | FF | TB | FF | TB | FF | TB | FF | ACT | FF | 9'-0" |
| - | TYP. BOY'S RR | CSV | FF | CT | FF | 6" | - | - | - | CT | FF | CT | FF | CT | FF | CT | FF | GB | P | 9'-0" |
| - | TYP. CUSTODIAN | EC | - | RTB | FF | 4" | - | - | - | FRP | P | FRP | P | FRP | P | FRP | P | GB | P | 9'-0" |
| - | TYP. UNISEX RR | CSV | FF | CT | FF | 6" | - | - | - | CT | FF | CT | FF | CT | FF | CT | FF | GB | P | 9'-0" |
| - | TYP. GIRL'S RR | CSV | FF | CT | FF | 6" | - | - | - | CT | FF | CT | FF | CT | FF | CT | FF | GB | P | 9'-0" |
| - | TYP. ELEC. | EC | - | RTB | FF | 4" | - | - | - | GB | P | GB | P | GB | P | GB | P | OA | - | - |
| - | TYP. WORKROOM | CPT | FF | RTB | FF | 4" | - | - | - | TB | FF | TB | FF | TB | FF | TB | FF | ACT | FF | 9'-0" |
| - | TYP. OFFICE | CPT | FF | RTB | FF | 4" | - | - | - | TB | FF | TB | FF | TB | FF | TB | FF | ACT | FF | 9'-0" |

ABBREVIATIONS

| | | | | |
|---|---|---|---|---|
| ACT - ACOUSTIC CEILING TILE | EC - EXPOSED CONCRETE | GB - GYPSUM BOARD | PL - PLYWOOD SHEATHING | SVS - SHEET VINYL SLIP-RESISTANT |
| BYP - BOARD TAPED & PRIMED | EPS - EXPOSED PAINTED SCRIM | OA - OPEN TO ATTIC | QT - QUARRY TILE | TB - TACK COVERED TACK BOARD |
| CPT - CARPET | FF - FACTORY FINISH | P - PAINT | RTB - RUBBER TOPSET BASE | VCT - VINYL COMPOSITE TILE |
| CT - CERAMIC TILE | FRP - FIBER REINFORCED POLYESTER PANELS | PMS - PERFORATED METAL SOFFIT | SL - SHEET LINOLEUM | |
| CSV - COVED SHEET VINYL BASE | GT - GEO TILE (AT ENTRANCE) | PLS - PLASTER | SV - SHEET VINYL | |

NOTES:
1. ALL WALLS (INCLUDING BATHROOM PARTITIONS) & CEILING FINISHES SHALL COMPLY WITH CBC 803 & 804
2. EXTERIOR ENTRIES AND/OR OPENINGS SUBJECT TO FOOT TRAFFIC OR WIND-DRIVEN RAIN SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR SUCH AS 4'X4' V.C.T. AND WALL FINISHES WITHIN AT LEAST 2'-0" AROUND AND PERPENDICULAR TO SUCH OPENINGS TO BE T.B. PLUS AT LEAST ONE OF THE FOLLOWING:
   - AN INSTALLED AWNING AT LEAST 4'-0" IN DEPTH
   - THE DOOR IS PROTECTED BY A ROOF OVERHANG AT LEAST 4'-0" IN DEPTH
   - THE DOOR IS RECESSED AT LEAST 4'-0"
   - OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION

# HARDWARE SCHEDULE

| SET | QTY | EXTERIOR CLASSROOM |
|---|---|---|
| 1 | 3 | IVES HINGE 5BB1HW 4.5 x 4.5 630 NRP |
| | 1 | SCHLAGE SECURITY LOCK ND75TDRHO626 |
| | 2 | SCHLAGE CORE 23-030 626 |
| | 1 | LCN CLOSER 4040XP 689 |
| | 1 | IVES KICK PLATE 8400 10" x 2" LDW 630 |
| | 2 | NGP JAMB SEAL 700ES |
| | 1 | NGP HEAD SEAL 700S |
| | 1 | NGP THRESHOLD 613 MS/LA |
| | 1 | DOOR STOP FS436 US10 IVE |
| | 1 | SEAL 700S |

| SET | QTY | EXTERIOR CLASSROOM WITH PANIC |
|---|---|---|
| 2 | 3 | IVES HINGE 5BB1HW 4.5 x 4.5 630 NRP |
| | 1 | VON DUPRIN EXIT DEVICE CD99NL x 990NL 626 |
| | 1 | SCHLAGE RIM CYLINDER 20-061-ICX 626 |
| | 1 | SCHLAGE MORTISE CYLINDER 20-061-ICX 626 |
| | 2 | SCHLAGE CORE 23-030 626 |
| | 1 | LCN CLOSER 4040XP 689 |
| | 1 | IVES KICK PLATE 8400 10" x 2" LDW 630 |
| | 2 | NGP JAMB SEAL 700ES |
| | 1 | NGP HEAD SEAL 700S |
| | 1 | NGP THRESHOLD 613 MS/LA |
| | 1 | DOOR STOP FS436 US10 IVE |
| | 1 | SEAL 700S |

| SET | QTY | EXTERIOR STORAGE |
|---|---|---|
| 3 | 3 | IVES HINGE 5BB1HW 4.5 x 4.5 630 NRP |
| | 1 | SCHLAGE STOREROOM LOCK ND80TDRHO626 |
| | 1 | SCHLAGE CORE 23-030 626 |
| | 1 | LCN CLOSER 4040XP 689 |
| | 1 | IVES KICK PLATE 8400 10" x 2" LDW 630 |
| | 2 | NGP JAMB SEAL 700ES |
| | 1 | NGP HEAD SEAL 700S |
| | 1 | NGP THRESHOLD 613 MS/LA |
| | 1 | DOOR STOP FS436 US10 IVE |
| | 1 | SEAL 700S |

| SET | QTY | EXTERIOR BOYS/GIRLS RESTROOM |
|---|---|---|
| 4 | 3 | IVES HINGE 5BB1HW 4.5 x 4.5 630 NRP |
| | 1 | SCHLAGE CLASSROOM LOCK ND70TDRHO626 |
| | 1 | SCHLAGE CORE 23-030 626 |
| | 1 | LCN CLOSER 4040XP 689 |
| | 1 | IVES KICK PLATE 8400 10" x 2" LDW 630 |
| | 2 | NGP JAMB SEAL 700ES |
| | 1 | NGP HEAD SEAL 700S |
| | 1 | NGP THRESHOLD 613 MS/LA |
| | 1 | DOOR STOP FS436 US10 IVE |

| SET | QTY | EXTERIOR STAFF RESTROOM |
|---|---|---|
| 5 | 3 | IVES HINGE 5BB1HW 4.5 x 4.5 630 NRP |
| | 1 | SCHLAGE LOCK CO-200-CY-40-KP-RHP-626-TD 626 |
| | 1 | SCHLAGE CORE 23-030 626 |
| | 1 | LCN CLOSER 4040XP 689 |
| | 1 | IVES KICK PLATE 8400 10" x 2" LDW 630 |
| | 2 | NGP JAMB SEAL 700ES |
| | 1 | NGP HEAD SEAL 700S |
| | 1 | NGP THRESHOLD 613 MS/LA |
| | 1 | DOOR STOP FS436 US10 IVE |
| | 1 | SEAL 700S |

| SET | QTY | INTERIOR OFFICE/WORKROOM |
|---|---|---|
| 6 | 3 | IVES HINGE 5BB1 4.5 x 4.5 652 |
| | 1 | SCHLAGE LOCK ND53TDRHO626 |
| | 1 | SCHLAGE CORE 23-030 626 |
| | 1 | LCN CLOSER 4040XP 689 |
| | 1 | IVES KICK PLATE 8400 10" x 2" LDW 630 |
| | 1 | DOOR STOP FS436 US10 IVE |
| | 1 | SEAL 700S |

| SET | QTY | INTERIOR STORAGE |
|---|---|---|
| 7 | 3 | IVES HINGE 5BB1 4.5 x 4.5 652 |
| | 1 | SCHLAGE LOCK ND80TDRHO626 |
| | 1 | SCHLAGE CORE 23-030 626 |
| | 1 | LCN CLOSER 4040XP 689 |
| | 1 | DOOR STOP FS436 US10 IVE |
| | 1 | SEAL 700S |

| SET | QTY | INTERIOR PASSAGE |
|---|---|---|
| 8 | 3 | IVES HINGE 5BB1 4.5 x 4.5 652 |
| | 1 | SCHLAGE PASSAGE SET ND10SRH0626 |
| | 1 | LCN CLOSER 4040XP 689 |
| | 1 | IVES KICK PLATE 8400 10" x 2" LDW 630 |
| | 1 | DOOR STOP FS436 US10 IVE |
| | 1 | SEAL 700S |

| SET | QTY | INTERIOR RESTROOM |
|---|---|---|
| 9 | 3 | IVES HINGE 5BB1 4.5 x 4.5 652 |
| | 1 | SCHLAGE PRIVACY SET ND40SRH0626 |
| | 1 | LCN CLOSER 4040XP 689 |
| | 1 | IVES KICK PLATE 8400 10" x 2" LDW 630 |
| | 1 | DOOR STOP FS436 US10 IVE |
| | 1 | SEAL 700S |

## MISCELLANEOUS HARDWARE NOTES

1. DOOR HANDLE FOR LOCKSETS AND PANIC HARDWARE SHALL BE CENTERED +38" A.F.F.
2. HARDWARE SHALL BE OPERABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. LEVERS SHALL RETURN TO WITHIN ½" OF DOOR.
3. CLOSER SHALL BE SET FOR A MAXIMUM OPENING FORCE OF 5 LBS AT EXTERIOR AND INTERIOR DOORS. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
4. MAXIMUM UNLATCHING FORCE FOR PANIC HARDWARE SHALL NOT EXCEED 5 LBS APPLIED ON THE DIRECTION OF TRAVEL. PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1010.1.10
5. EACH DOOR IN A MEAN OF EGRESS FROM GROUP E OCCUPANCIES SHALL NOT NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS I IS PANIC HARDWARE OR FIRE EXIT HARDWARE PER CBC 1010.1.10
6. FLOOR STOPS SHALL NOT BE LOCATED IN THE PATH OF TRAVEL AND SHALL BE LOCATED 4" MAXIMUM FROM WALLS.
7. ALL EXT. CLASSROOM DOORS SHALL BE 180° SWING
8. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS (OF DOOR HARDWARE) SHALL BE 5LBS. MAXIMUM. (11B-309.4)

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DATE: 12/14/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118506
A separate project application for construction is required

RELOCATABLE
SLAB ON GRADE BUILDING MODEL
32'-5" WIDE MODULAR BUILDING

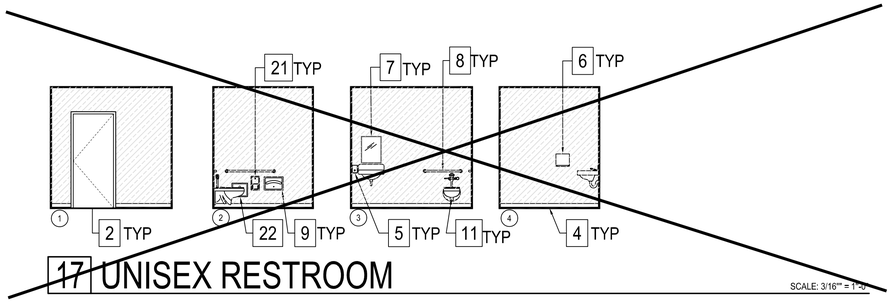
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PROJECT NO.
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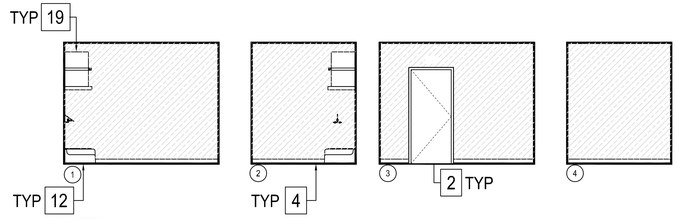
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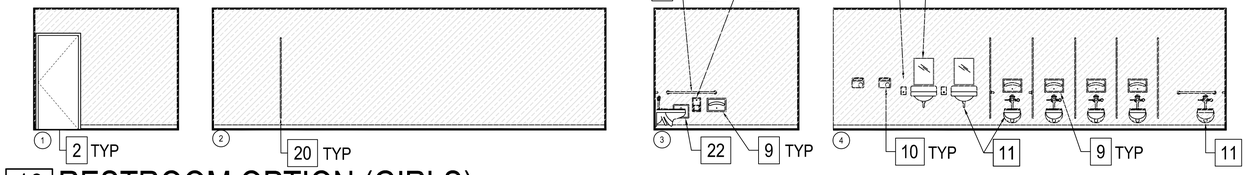



## 17 UNISEX RESTROOM

SCALE: 3/16"" = 1'-0"

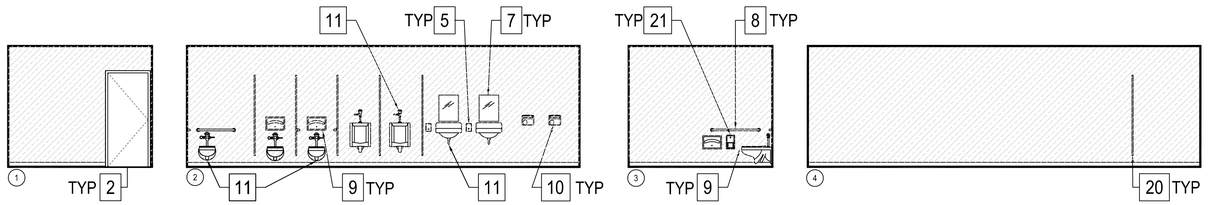



## 18 JANITORS CLOSET



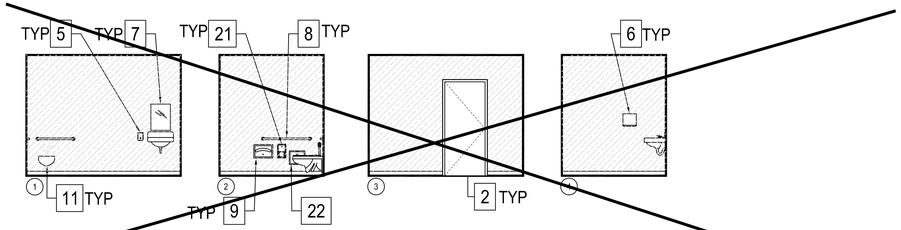

## 19 RESTROOM OPTION (GIRLS)

SCALE: 3/16"" = 1'-0"



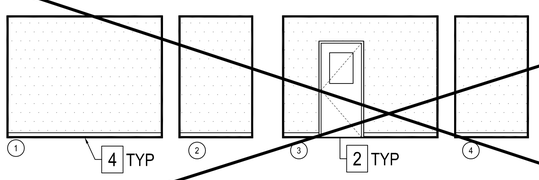

## 20 RESTROOM OPTION (BOYS)

SCALE: 3/16"" = 1'-0"



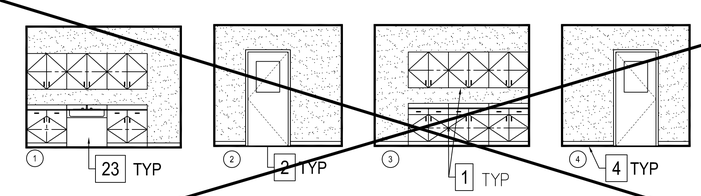

## 21 RESTROOM OPTION (UNISEX)

SCALE: 3/16"" = 1'-0"




## 23 TEACHERS PREP

SCALE: 3/16"" = 1'-0"




## 22 TEACHERS PREP

SCALE: 3/16"" = 1'-0"

## KEYNOTES

1. WALL/BASE CABINETS TYP. - SEE 1/A-1.31
2. DOOR AND FRAME PER SCHEDULE - REFER TO SHEET A-1.32
3. WINDOW PER SCHEDULE - REFER TO SHEET A-1.32
4. RUBBER TOP SET BASE
5. SOAP DISPENSER - SEE SHEET A-2.20
6. PAPER TOWEL DISPENSER - SEMI RECESSED, REFER TO 6/A-2.20
7. MIRROR SEE SHEET A-2.20
8. GRAB BAR SEE DTL - 2/A-2.20 FOR MOUNTING
9. TOILET SEAT COVER DISPENSER SEE SHEET A-2.20
10. ELECTRIC HAND DRYER - SEE SHEET A-2.20
11. ADA ACCESSIBLE PLUMBING FIXTURE - REFER TO SHEET A-2.20
12. JANITOR'S MOP SINK
13. IDF BOX - REFER TO ELECTRICAL SHEETS 80" MIN. AFF TO BOTTOM
14. RECESSED FIRE EXTINGUISHER - SEE DETAIL 8/A-6.02
15. ELECTRICAL PANEL - REFER TO ELECTRICAL SHEETS
16. 4' X 8' MARKER BOARD - SEE DETAIL 9/A-6.02
17. MECHANICAL UNIT - REFER TO MECHANICAL SHEETS
18. EXIT SIGN
19. WATER HEATER - REFER TO PLUMBING SHEETS
20. TOILET PARTITION - SEE DETAILS 2 & 3/A-6.02
21. TOILET PAPER DISPENSER REFER TO PAGE A-1.15 & A-1,16 FOR ACCESSORY SCHEDULE AND SHEET A-2.20 FOR ACCESSIBILITY REQUIREMENTS
22. SANITARY NAPKIN DISPOSAL - REFER TO A-1,15 & A-1,16 FOR ACCESSORY SCHEDULE AND SHEET A-2.20 FOR ACCESSIBILITY REQUIREMENTS
23. ACCESSIBLE SINK IN CABINET REFER TO DETAIL 4/A-2.20

## LEGEND

- CERAMIC TILE REFER TO 1/A-6.04
- 1/2" VINYL TACKABLE WALLBOARD
- FRP
- GYP. BD, PAINTED

*REFER TO SHEET A-1.32 FOR FINISH SCHEDULE

## GENERAL NOTES

1. SEE SHEET 6/A-2.20 FOR ACCESSIBLE MOUNTING HEIGHTS ND OTHER REQUIRED ACCESSIBLE DIMENSIONS
2. REFER TO A-1.15 & A-1.16 FOR RESTROOM ACCESSORY SCHEDULE SPECIFICATIONS
3. ALL DIMENSIONS ARE CLEARANCES FORM FINISH MATERIALS
4. ALL CASEWORK TO BE PROVIDED BY SITE CONTRACTOR, UNLESS NOTED. MODULAR MANUFACTURER TO PROVIDE ALL BLOCKING FOR PROPER INSTALLATION
5. MECHANICAL & ELECTRICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECH. & ELEC. SHEETS FOR EXACT LOCATION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119613 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022

APPROVALS
FILE # APPLICATION #

JTS MODULAR
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**7001 Mc Divitt Dr.**
**Bakersfield, CA 93313**
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ORION
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11305 Rancho Bernard RD., Suite 121
San Diego, CA 92127
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REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4
EXP. 09/21
STRUCTURAL
STATE OF CALIFORNIA

DRAWN BY: ALV
CHECKED BY: GHA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118526 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CC ☑
DATE: 12/17/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
INTERIOR ELEVATIONS

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
**A-2.02**

M:\JTS - Design Standards\2020 PC Drawings\2020 40' PC (2020)\A-2.00~2.02.dwg Aug 30, 2021 8:38am

## 1 ELECTRICAL NOTES

CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRAPING, PINCHING, OR TWISTING OF THE WRIST. NO GREATER THAN 5 LBS. OF FORCE SHALL BE REQUIRED TO ACTIVATE CONTROLS (11B-309.4). SEE ALSO SECTIONS 210-7(G). 380-8(C) AND 760-9, CALIFORNIA ELECTRICAL CODE, FOR ELECTRICAL INSTALLATION.

GENERAL CONTROLS AND OPERATING MECHANISMS REQUIRED TO BE ACCESSIBLE BY SECTION 108.1 SHALL COMPLY WITH THE REQUIREMENTS OF THIS SECTION (11B-205.1).

THE ELECTRICAL AND COMMUNICATION SYSTEM RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS SHALL BE INSTALLED NOT MORE THAN 48" TO TOP OF BOX NOR LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORM TO BOTTOM OF BOX. SEC 11B-308.1.2

THE TOP OF BOX OF CONTROLS OR SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING, AND VENTILATING EQUIPMENT SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR OR WORKING PLATFORM, NOR LESS THAN 15" TO BOTTOM BOX. SEC 380-8(C). SEC 11B-308.1.1.

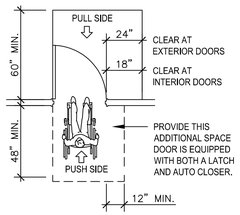
THE TOP OF FIRE ALARM INITIATING DEVICES (BOXES OPERATING HANDLE) SHALL BE LOCATED 48" MAX AND 42" MIN. TO TOP OF BOX ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE, OR SIDEWALK. SEC 907.4.2.2 & 907.5.2.3.

THE INSTALLATION OF FIRE ALARM EQUIPMENT AND SYSTEMS IN ANY OCCUPANCY WITHIN THE SCOPE OF THESE REGULATIONS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE CALIFORNIA ELECTRICAL CODE. SECTION 7201.

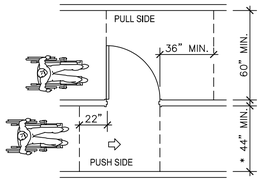
THE HIGHEST OPERABLE PART OF ALL CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN AT LEAST ONE OF THE REACH RANGES SPECIFIED IN SECTIONS 11B-308.2 AND 11B-308.3, SECTION 11B-309.3

## 2 ENTRANCES & EXITS

### LEVEL MANEUVERING CLEARANCE AT DOORS

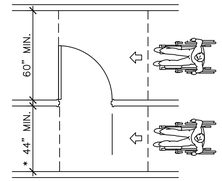



FRONT APPROACH




NOTE:
48" MINIMUM IF DOOR HAS BOTH A LATCH AND A CLOSER

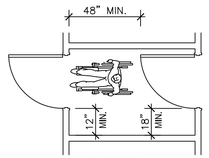
HINGE APPROACH



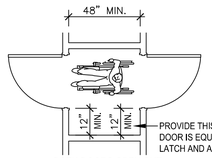

NOTE:
48" MINIMUM IF DOOR HAS A CLOSER

LATCH APPROACH

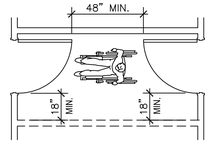
### DOOR IN SERIES



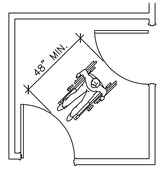

DOOR IN SERIES




BOTH DOORS OPEN OUT



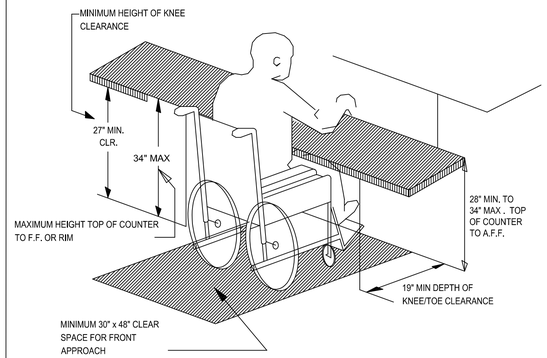

DOORS AT OPPOSITE WALLS




DOORS AT ADJACENT WALLS

1. SIGNAGE GENERAL
   AT EVERY PRIMARY PUBLIC ENTRANCE AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE, THERE SHALL BE A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THESE SIGNS SHALL INDICATE THE DIRECTIONS TO ACCESSIBLE ENTRANCES AND FACILITIES.
2. EGRESS GENERAL
   IN BUILDING OR PORTIONS OF BUILDINGS REQUREID TO ACCESSIBLE, ACCESSIBLE MEANS OF EGRESS SHALL BE PROVIDED IN THE SAME NUMBER AS REQUIRED FOR EXISTS BY CHAPTER 10. WHEN ADDITIONAL EXITS ARE PROVIDED AND PERCEIVED OR SIGNED TO BE EXITS THEY SHALL ALSO HAVE ACCESSIBLE MEANS OF EGRESS.

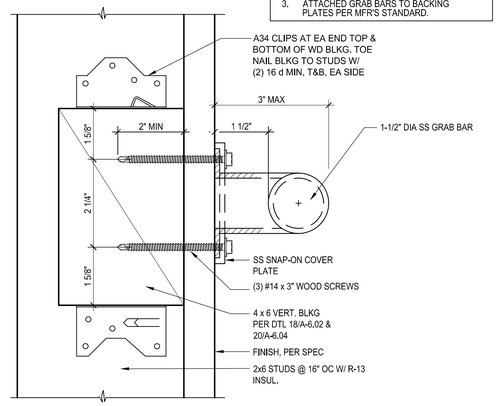
## 3 COUNTER WORKSPACE




**GRAB BARS**

1. LOCATION: GRAB BARS LOCATED ON EACH SIDE, OR ONE SIDE AND THE BACK OF THE ACCESSIBLE TOILET STALL OR COMPARTMENT. SHALL BE SECURELY ATTACHED PER DETAIL 5/A-2.20. GRAB BARS AT THE SIDE SHALL BE AT LEAST 42 INCHES LONG WITH THE FRONT END POSITIONED 24 INCHES IN FRONT OF THE WATER CLOSET STOOL. GRAB BARS AT THE BACK SHALL BE 36" LONG (MIN.)
2. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4 INCH MINIMUM TO 1 -1/2 INCH, THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF GRAB BARS ARE MOUNTED ADJACENT TO THE WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2 INCHES.
3. THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES MUST WITHSTAND AT LEAST 250 POUNDS OF LATERAL LOAD VERTICAL OR HORIZONTAL FORCE.
4. GRAB BARS CANNOT ROTATE WITHIN THEIR FITTINGS.
5. SURFACE: A GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH.

NOTES:
1. GRAB BAR TO CONFORM TO 2019 CBC, TITLE 24, CHAPTER 11B, 11B-609.8 FOR STRUCTURAL STRENGTH.
2. PROVIDE 4x6 WOOD BLKG. W/10d EA END TO WOOD STUDS.
3. ATTACHED GRAB BARS TO BACKING PLATES PER MFR'S STANDARD.




NOTE:
FOR GRAB BAR CLEARENCE AND DIMENSION REQUIREMENTS - SEE DTL 6/A-2.20

## 4 SANITARY FACILITIES FIXTURES

SANITARY FACILITY FIXTURES & ACCESSORIES

THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MINIMUM OF 17" AND A MAXIMUM OF 19" MEASURED TO THE TOP OF A MAXIMUM 2" HIGH TOILET SEAT, SECTION 11B-604.4

A CLEAR FLOOR SPACE 30" BY 48" SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW A FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND A MAXIMUM OF 19" INTO KNEE AND TOE SPACE UNDERNEATH THE LAVATORY. SECTION 11B-606.2

LAVATORIES ADJACENT TO A WALL SHALL BE MOUNTED WITH A MINIMUM DISTANCE OF 18" TO THE CENTER LINE OF THE FIXTURE. SECTION 11B-606.6

LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34" ABOVE THE FINISHED FLOOR AND WITH A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON WITH KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30" IN WIDTH AND 8" MINIMUM DEPTH AT 27" A.F.F. & 11" MINIMUM DEPTH AT 9" A.F.F. TOE CLEARANCE SHALL BE THE SAME WIDTH AND SHALL BE A MINIMUM OF 9" HIGH FROM THE FLOOR AND A MINIMUM OF 17" DEEP FROM THE FRONT OF THE LAVATORY. SECTION 11B-606.3 AND SECTIONS 11B-306.3 (KNEE CLEARANCE) AND 11B-306.2 (TOE CLEARANCE).

WATER AND DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES. SEC 11B-606.5.

CONTROLS FOR WATER CLOSET FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS. SEC 11B-604.6.

WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, SHALL BE OPERABLE WITH ONE HAND, SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR. SEC 11B-604.6, 11B605.4, 11B-606.4. W.C. FLUSH CONTROLS AT CHILDREN'S USE SHALL BE 36" MAX. A.F.F. 11B-604.9.5

HAND-OPERATED METERING FAUCETS ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS. SEC 11B-606.4.

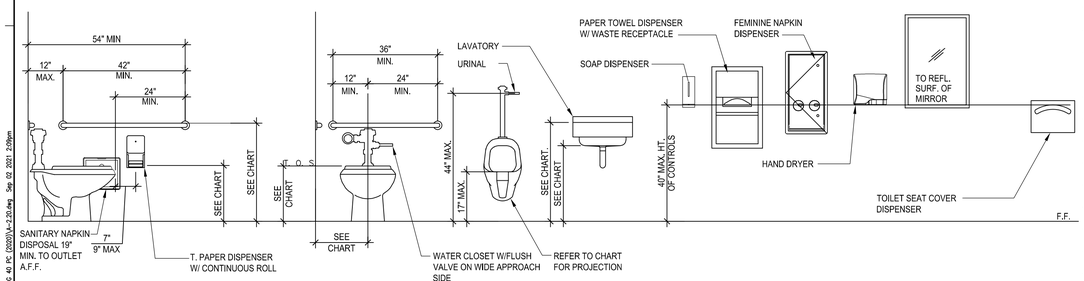
MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF REFLECTIVE SURFACE NO HIGHER THAN 40" FROM THE FLOOR. SEC 11B-603.3.

WHERE TOWEL, SANITARY NAPKINS, WASTE RECEPTACLES, AND OTHER SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40" FROM THE FINISHED FLOOR AND SHALL COMPLY WITH SECTION 11B-603.5

CENTER LINE OF TOILET TISSUE DISPENSERS SHALL BE LOCATED ON THE WALL BETWEEN 7"-9" OF THE FRONT EDGE OF THE TOILET SEAT AND NO LOWER THAN 19" FROM THE FLOOR. DISPENSERS THAT CONTROL DELIVERY OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED.SEC 11B-604.7.

URINALS, AT LEAST ONE SHALL HAVE A CLEAR FLOOR SPACE 30 INCHES BY 48 INCHES (762 MM BY 1219 MM) IN FRONT OF THE URINAL TO ALLOW FORWARD APPROACH. THIS CLEAR SPACE SHALL COMPLY WITH SECTION 11B-605.3.

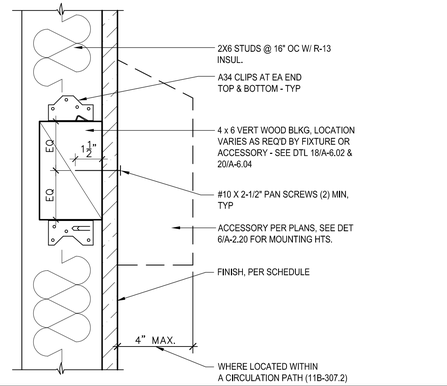
IN OTHER THAN DWELLING UNITS, TOILET ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE SUCH AS PORTLAND CEMENT, CONCRETE, CERAMIC TILE OR OTHER APPROVED MATERIAL WHICH EXTENDS UPWARD ONTO THE WALLS AT LEAST 6". WALLS WITHIN WATER CLOSET COMPARTMENTS AND WALLS WITH 24" OF THE FRONT AND SIDES OF URINALS SHALL BE SIMILARLY FINISHED TO A HEIGHT OF 48" AND, EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE A TYPE WHICH IS NOT ADVERSELY AFFECTED BY MOISTURE. SEC 1210.2.1 THRU 1210.2.4.




NOTE:
1. FOR ALL ACCESSORIES THAT ARE N.I.C, BLOCKING IS REQUIRED. SEE DTL 2/3 OF THIS SHEET.
2. WATER CLOSET W/ FLUSH VALVE ON WIDE SIDE OF TOILET STALL.
3. FIXTURE CONTROLS SHALL COMPLY W/ 2019 CBC AS FOLLOWS;
   LAVATORIES = 11B-309 AND 11B-606.4
   WATER CLOSETS = 11B-309 AND 11B-604.9.5 and 11B-604.6
   URINALS = 11B-605.4 AND 11B-309
4. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECT BELOW AND AT THE ENDS SHALL BE 1 1/2" MIN. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12" MIN.

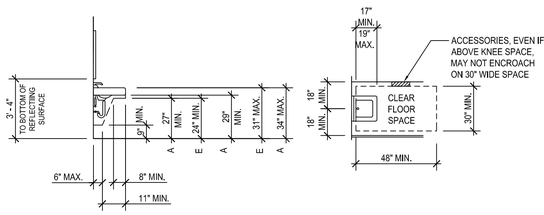
## 5 GRAB BARS

SCALE: 6" = 1'-0"




## 6 TYPICAL ACCESSIBLE MOUNTING HEIGHTS

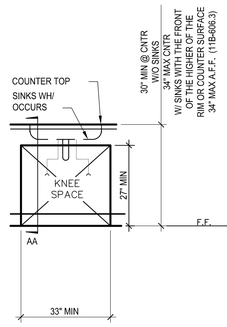
SCALE: NTS




NOTE:
WATER SUPPLY (11B-606.5) AND DRAIN PIPES UNDER SINK SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINK.
FOR ACCESSORY MOUNTING HEIGHTS SEE DIMENSION REQUIREMENTS SEE DTL 6/A-2.20
SOLID BLOCKING AS REQUIRED PER FIXTURE SEE DTL 18/A-6.02

LAV REQUIREMENTS

SCALE: 1" = 1'-0"




SECTION AA

NOTE:
FAUCET CONTROLS AND OPENING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO MORE THAN 5 LBS. LEVER OPERATED, PUSH TYPE AND SELF-CLOSING VALVES TO REMAIN OPEN FOR AT LEAST TEN SECONDS. SINKS SHALL NOT EXCEED 6-1/2" IN DEPTH PER 2019 CBC 11B-606.7.

ACCESSIBLE SINK IN CAB. REQUIREMENTS

SCALE: 1" = 1'-0"

| ALTERNATE DIMENSION | | 2019 CBC REFERENCE: T: TABLE, S: SECTION, F: FIGURE | | | |
|---|---|---|---|---|---|
| DESCRIPTION | A ADULT | AGES 3-4 | E AGES 5-8 | E AGES 9-12 | 2019 CBC REFERENCE |
| TOILET OFFSET | 17-18" | 12" | 12"-15" | 15-18" | T 11B-604.9<br>S 11B-604.2 |
| TOILET SEAT HEIGHT T.O.S | 17-19" | 11"-12" | 12"-15" | 15-17" | T 11B-604.9<br>S 11B-604.4 |
| TOP OF TOILET GRAB BAR GRIPPING SURFACE | 33"-36" | 18"-20" | 20"-25" | 25-27" | T 11B-604.9<br>S 11B-609.4 |
| TP DISP. OUTLET (A.F.F. TO CENTERLINE OF OUTLET OR ROLL) | 19" MIN. | 14" | 15"-17" | 17"-19" | T 11B-604.9<br>S 11B-604.7 |
| FURTHEST TP DISPENSER IN FRONT OF TOILET | 7-9" To Centerline | 7-9" To Centerline | 7-9" To Centerline | 7-9" To Centerline | S 11B-604.7 |
| LAV/SINK RIM HEIGHT | 34" Max. | 31" Max. | 31" Max. | 34" Max. | S 11B-606.2 (EXCEPTION)<br>S 11B-606.3 |
| LAV KNEE CLEARANCE | 27" Min. | parallel approach permitted | 24" Min. | 24" Min. | S 11B-606.2 (EXCEPTION)<br>F 11B-306.3 |
| URINAL HEIGHT | 17" Max. | 13" Max. | 13" Max. | 13" Max. | S 11B-605.2 |
| URINAL PROJECTION | 13 ½ " Min. | 13" Min. | 13" Min. | 13" Min. | S 11B-605.2 |
| URINAL FLUSH CONTROL HEIGHT | 44" Max. | 44" Max. | 44" Max. | 44" Max. | S 11B-605.4 |
| HIGH D.F. SPOUT STANDING HEIGHT | 38"-43" | 36"-41" | 36"-41" | 36"-41" | S 11B-602.7 |
| LOW ACCESSIBLE D.F. APPROACH. SPOUT HEIGHT, & SPOUT LOCATION FROM FRONT EDGE OF UNIT | 36" Max. A.F.F. | 30" Max. A.F.F. | 30" Max. A.F.F. | 30" Max. A.F.F. | S 11B-602.2<br>S 11B-602.4 & .5 |
| D.F. OPERABLE PARTS | 6" Max. from front edge of unit | 6" Max. from front edge of unit | 6" Max. from front edge of unit | 6" Max. from front edge of unit | S 11B-602.3 |
| CANTILEVER ACCESSIBLE D.F. PROJECTION | 18"-19" | 18"-19" | 18"-19" | 18"-19" | S 11B-602.8 |
| TOE CLEARANCE AT TOILET PARTITION | 9" Min. | 12" Min. | 12" Min. | 12" Min. | S 11B-604.8.1.4 |
| SHELF HEIGHT | 40"-48" | 40"-48" | 40"-48" | 40"-48" | S 11B-604.8.3<br>S 11B-603.4 |
| RESTROOM ACCESSORY REACH HEIGHT | 40" Max. | 40" Max. | 40" Max. | 40" Max. | S 11B-603.5 |
| MIRROR HEIGHT (BOTTOM EDGE OF REFLEC. SURFACE) | 40" Max.(above lav/countertop) | 40" Max.(above lav/countertop) | 40" Max.(above lav/countertop) | 40" Max.(above lav/countertop) | S 11B-603.3 |

## 7 ACCESSORY MOUNTING

SCALE: 3" = 1'-0"

IDENTIFICATION STAMP
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APP: 02-119613 INC:
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FILE # APPLICATION #


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RYAN J. OMER
No. S 4
EXP. 09/30/22
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STATE OF CALIFORNIA

DRAWN BY: ALV
CHECKED BY: GHA

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DIV. OF THE STATE ARCHITECT
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SS ☐ FLS ☑ ACS ☑ CO ☑
DATE: 12/14/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

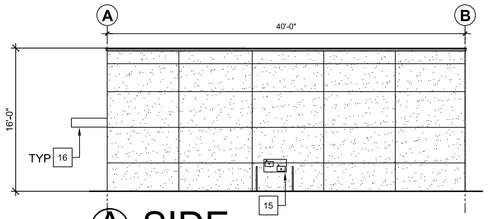
MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
ACCESSIBILITY DETAILS

DSA APP NO.
02-119613

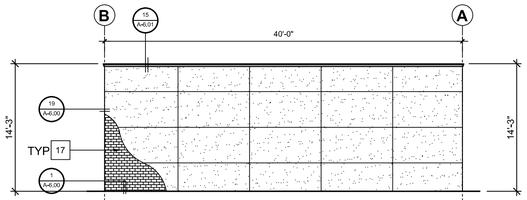
PROJECT NO.
06-0142

DRAWING
**A-2.20**

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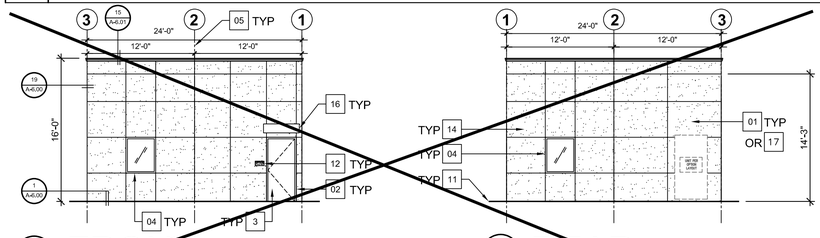

Ⓐ SIDE




Ⓑ SIDE

## 5 TYP. PARAPET ROOF EXT. ELEVATION

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



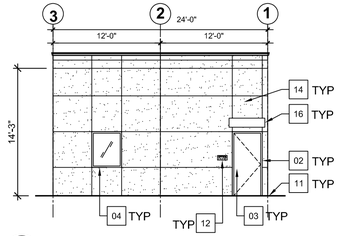

Ⓐ FRONT



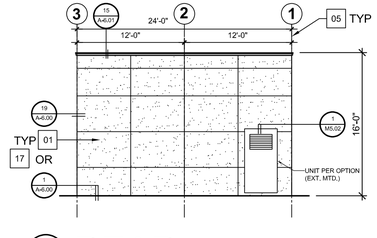

Ⓑ REAR

## 6 2 MODULES EXT. ELEVATIONS

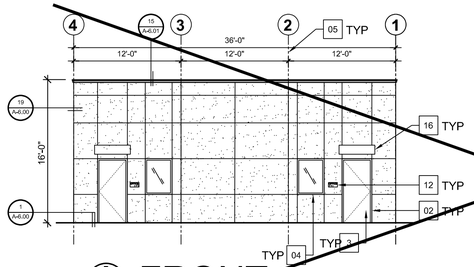
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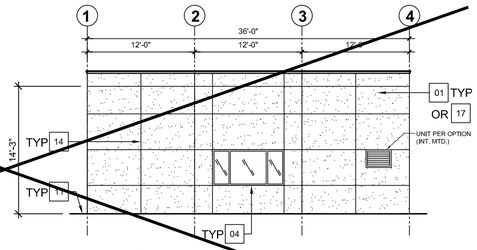

Ⓐ FRONT




Ⓑ REAR




Ⓐ FRONT

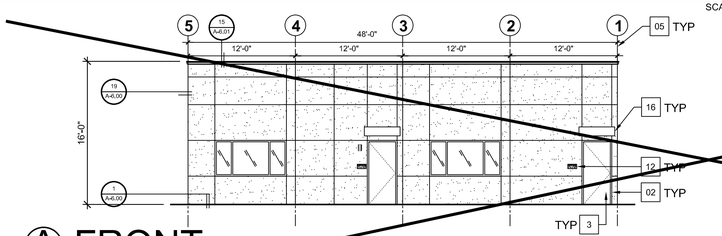



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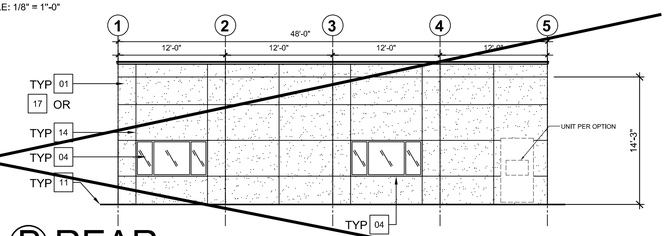
## 7 2 MODULES EXT. ELEVATIONS W/ RESTROOM

## 8 3 MODULES EXT. ELEVATIONS

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



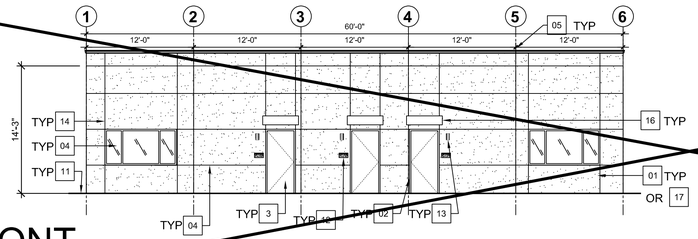

Ⓐ FRONT



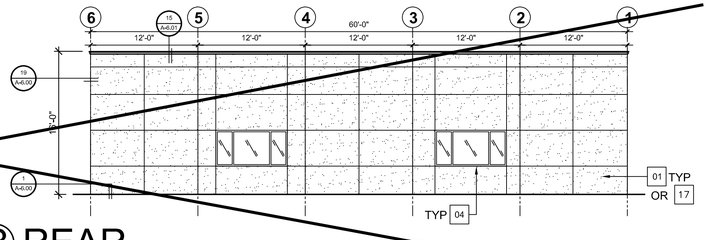

Ⓑ REAR

## 9 4 MODULES EXT. ELEVATIONS

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




Ⓐ FRONT




Ⓑ REAR

## 10 5 MODULES EXT. ELEVATIONS

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

## KEYNOTES

| | |
|---|---|
| 01 | 1/2" PERMABASE W/ DIRECT-APPLIED EXTERIOR FINISH STUCCO SYSTEM OVER 1/2" PLYWOOD SHEATHING - SEE DETAIL 16/A-6.00 |
| 02 | 16 GAUGE PRESSED METAL FRAME W/ LOCK IN ANCHORS REFER TO A-1.31 |
| 03 | 1 3/4" THICK 18 GAUGE INSULATED METAL DOOR REFER TO A-1.32 |
| 04 | NAIL IN ALUMINUM WINDOW ASSEMBLY - INSTALL OVER 6" WIDE BUILDING PAPER FLASHING W/ 8d @ 24" O.C. REFER TO A-1.32 |
| 05 | MODULE LINE - SEE 17/A-6.00 |
| 06 | ~~24 GA STANDING SEAM METAL ROOF REFER TO 1,2,3,4,5,6&7/A-6.01~~ |
| 07 | ~~FIELD INSTALL ROOF PANEL SHOWN SHADED~~ |
| 08 | ~~DOWNSPOUT REFER TO 9/A-6.00~~ |
| 09 | ~~24 GA GUTTER W/ CLOSED ENDS REFER TO 2&6/A-6.01~~ |
| 10 | ~~1X10" EXTERIOR WOOD TRIM REFER TO 2,3,4&6/A-6.04~~ |
| 11 | CONCRETE FLATWORK BY OTHERS |
| 12 | CBC COMPLIANT DOOR SIGN REFER TO 3/A-1.31 |
| 13 | COMPACT LIGHT FIXTURE |
| 14 | STUCCO CONTROL JOINT #1558x OR EQUAL - CONFORMS TO ASTM D11784-81 SEE 20/A-6.00 |
| 15 | ~~OPTIONAL DF WHERE OCCURS REFER TO 20/A-6.03~~ |
| 16 | CANOPY REFER TO 3/A-6.05 |
| 17 | ~~THIN BRICK VENEER OPTION WHERE OCCURS, REFER TO 10/A-6.04~~ |

## GENERAL NOTES

FOR EXACT SHEARWALL LOCATION(S) SEE:

ONE MODULE: S-3.1
TWO MODULES: S-3.2
THREE MODULES: S-3.3
FOUR MODULES: S-3.4
FIVE MODULES: S-3.5

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REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4[illegible]
EXP. 12/31/21
STRUCTURAL
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MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
EXTERIOR ELEVATIONS PARAPET ROOF

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
A-3.09

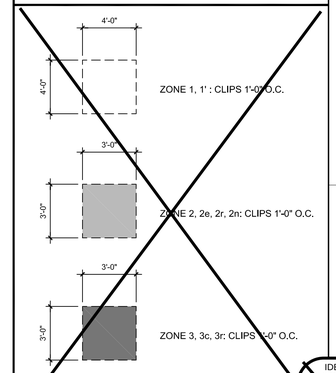
## UL-90 VERTICAL SEAM CLIP

| APPLICATION | ZONE | INSTALLATION REQUIREMENTS | | CLIP SPACING | TYPE OF FASTENER | # REQ'D. |
|---|---|---|---|---|---|---|
| CLIPS OVER 5/8" PLYWOOD DECK | 1 | UL-90 CONSTR. 436 | 24 GAUGE | SEE LEGEND | #10 X 1" PANCAKE HEAD WOOD & #10 x 1" x ¾" HEX HEAD | 2 FASTNERS |
| | 2 | UL-90 CONSTR. 436 | 24 GAUGE | SEE LEGEND | #10 X 1" PANCAKE HEAD WOOD & #10 x 1" x ¾" HEX HEAD | 2 FASTNERS |
| | 3 | UL-90 CONSTR. 436 | 24 GAUGE | SEE LEGEND | #10 X 1" PANCAKE HEAD WOOD & #10 x 1" x ¾" HEX HEAD | 2 FASTNERS |

## KEYNOTES X

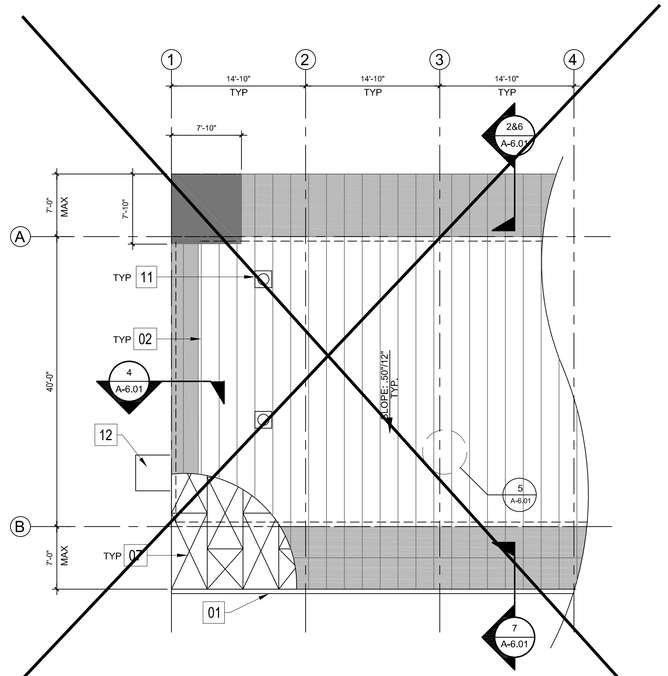
1. PREFINISHED METAL GUTTER - SEE DETAILS 2 & 6/A-6.01
2. 24 GA. CLASS "C" PRE-FINISHED VERTICAL SEAM PANEL METAL ROOF SYSTEM OVER 5/8" WOOD DECK INSTALLED WITH STEEL CLIPS FURNISHED BY THE MFG. ATTACH CLIPS ALONG LEADING EDGE OF EACH PANEL INTO ROOF SHEATHING - PER CONNECTOR'S SPACING REQUIREMENTS BELOW. PANEL LOCKS OVER CLIP w/ #10X1" PANCAKE HEAD WOOD SCREW, PER ESR 2355
3. PARAPET WALL - SEE DETAILS 15 & 16/A-6.01
4. CRICKET - TAPERED INSULATION 1/2"/12" MIN.
5. 60 MIL TPO ROOF PER ESR-1463
6. ROOF HATCH - SEE DETAIL 1/PA-6.01 AND 6/A-6.01 FOR PENETRATION DETAIL
7. PLYWOOD ROOF SHEATHING - REFER TO STRUCTURAL SHEETS
8. ROOF MOUNTED MECHANICAL UNIT (ONLY @ PARAPET) - SEE DTL 10/A-6.03
9. ROOF DRAIN - SEE DTL 16/A-6.02
10. GUARD HATCH RAIL SYSTEM - SEE DETAIL 2/A-6.03
11. SKYTUBES FOR MODULAR - SEE DETAIL 6/A-6.01 AND 6/A-6.01 FOR PENETRATION DETAILS
12. CANOPY REFER TO 3/A-6.05 FOR SECTION AND DETAIL. REFER TO SITE SPECIFIC ROOF PLAN FOE LOCATIONS.

## CONNECTOR'S SPACING



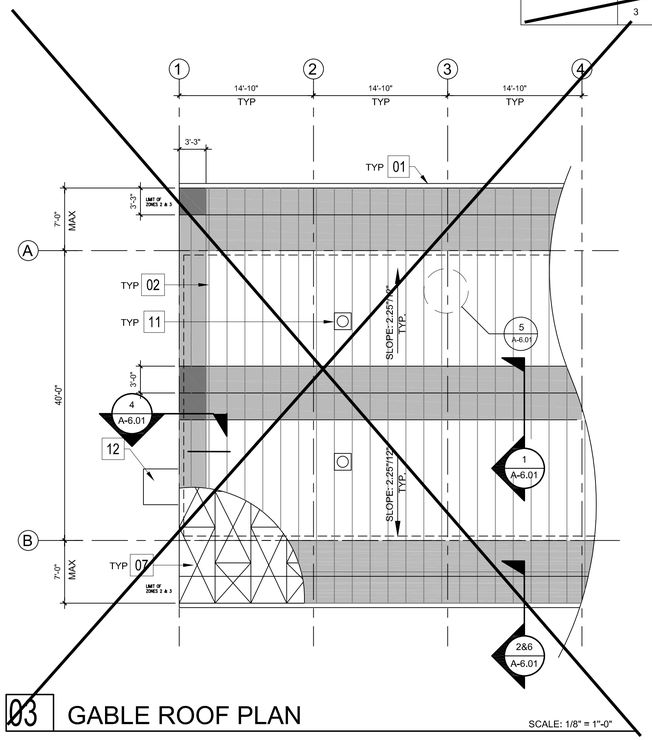

## GENERAL NOTES

1. SEE DTL 9/A-6.02 FOR SOLATUBE




01 MONOSLOPE ROOF PLAN

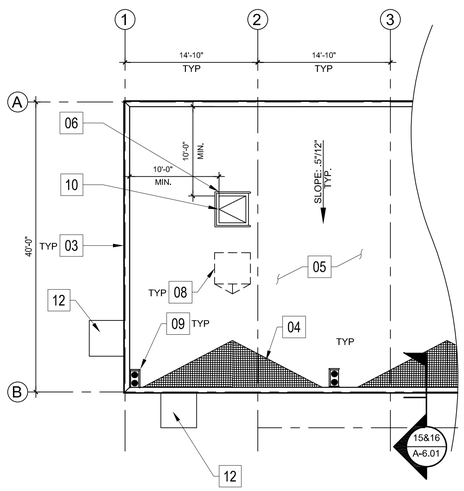
SCALE: 1/8" = 1'-0"




03 GABLE ROOF PLAN

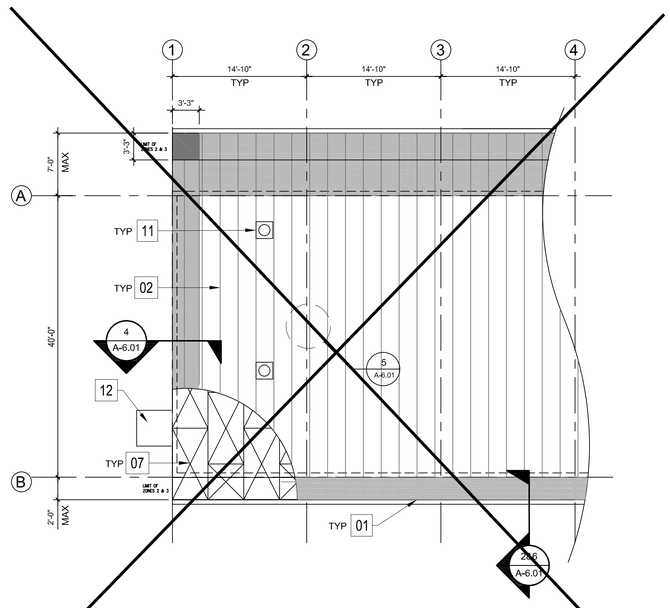
SCALE: 1/8" = 1'-0"

| MODULE/MODEL | ROOF AREA AVAILABLE FOR SOLAR READY | ZONE AREA (15%) |
|---|---|---|
| 2 MODS - GABLE/MONO | 1,377 SF | 206 SF |
| 2 MODS - BARREL | 1,317 SF | 197 SF |
| 2 MODS - PARAPET | 900 SF | 135 SF |
| 3 MODS - GABLE/MONO | 2,065 SF | 309 SF |
| 3 MODS - BARREL | 1,976 SF | 296 SF |
| 3 MODS - PARAPET | 1,366 SF | 204 SF |
| 4 MODS - GABLE/MONO | 2,754 SF | 413 SF |
| 4 MODS - BARREL | 2,635 SF | 395 SF |
| 4 MODS - PARAPET | 1,832 SF | 274 SF |
| 5 MODS - GABLE/MONO | 3,442 SF | 516 SF |
| 5 MODS - BARREL | 3,294 SF | 494 SF |
| 5 MODS - PARAPET | 2,298 SF | 344 SF |
| 6 MODS - GABLE/MONO | 4,131 SF | 619 SF |
| 6 MODS - BARREL | 3,953 SF | 592 SF |
| 6 MODS - PARAPET | 2,800 SF | 419 SF |
| 7 MODS - GABLE/MONO | 4,819 SF | 722 SF |
| 7 MODS - BARREL | 4,611 SF | 691 SF |
| 7 MODS - PARAPET | 3,230 SF | 484 SF |
| 8 MODS - GABLE/MONO | 5,508 SF | 826 SF |
| 8 MODS - BARREL | 5,270 SF | 790 SF |
| 8 MODS - PARAPET | 3,696 SF | 554 SF |
| 9 MODS - GABLE/MONO | 6,196 SF | 929 SF |
| 9 MODS - BARREL | 5,929 SF | 889 SF |
| 9 MODS - PARAPET | 4,162 SF | 624 SF |
| 10 MODS - GABLE/MONO | 6,885 SF | 1,032 SF |
| 10 MODS - BARREL | 6,588 SF | 988 SF |
| 10 MODS - PARAPET | 4,628 SF | 694 SF |



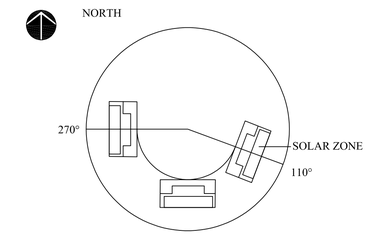

02 PARAPET ROOF PLAN

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




04 BARREL ROOF PLAN

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




ROOF ORIENTATION DETAIL FOR STEEP-SLOPED ROOFS GREATER THAN 2:12

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# RELOCATABLE SLAB ON GRADE BUILDING MODEL

## 32'-5" WIDE MODULAR BUILDING

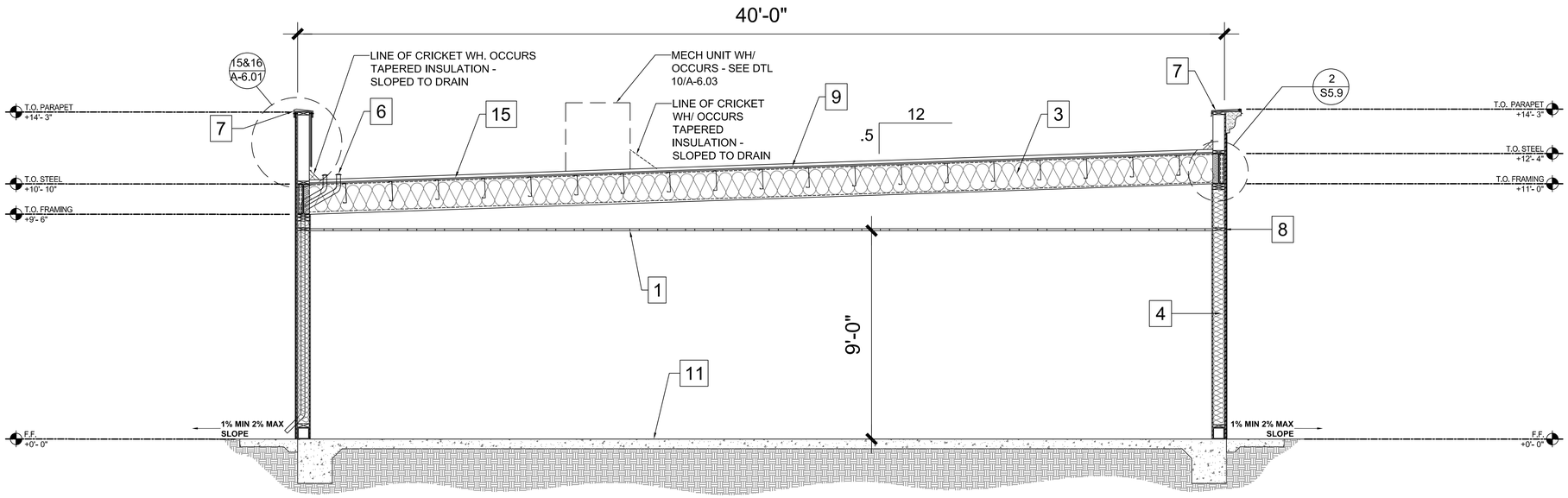
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ROOF PLANS

DSA APP NO.
02-119613

PROJECT NO.
06-0109

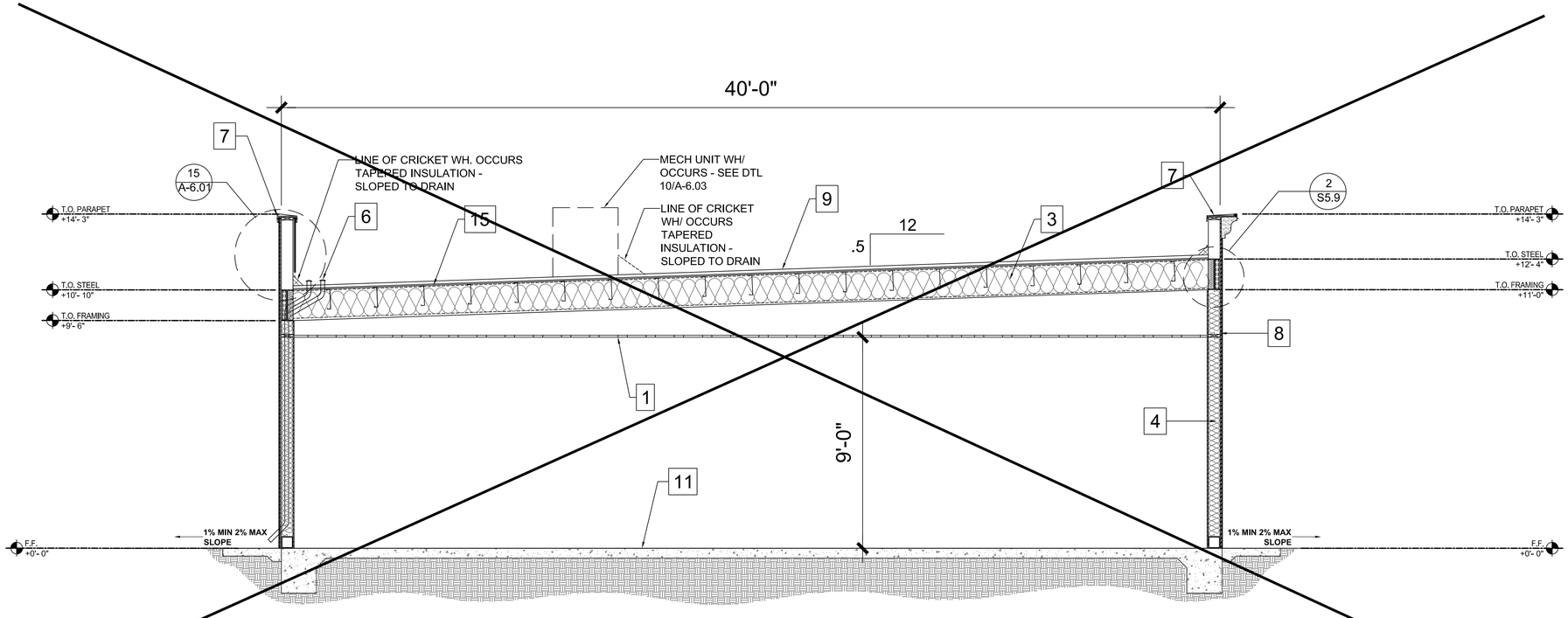
DRAWING
**A-4.00**


M:\JTS--JTS Design Standards\2020 PC Drawings\SDG--32'x4-4.00.dwg Aug 30, 2021 10:34am




# 1 BUILDING SECTION (WOOD STUD)

**SCALE: 3/8" = 1'-0"**




# 2 BUILDING SECTION (METAL STUD)

**SCALE: 3/8" = 1'-0"**

## KEYNOTES

1. SUSPENDED ACOUSTIC CEILING - REFER TO A-1.20
2. ~~PRE-FINISHED METAL GUTTER - REFER TO 2, 9/A-6.01~~
3. INSULATION R-30 AT ROOF
4. INSULATION R-19 AT WALLS
5. ~~METAL DOWNSPOUT - SEE DETAIL 9/A-6.00~~
6. ROOF DRAIN - REFER TO DETAIL 16/A-6.02
7. PARAPET WALL - REFER TO DETAILS 15, 16/A-6.01
8. 2X FIRE BLOCKING
9. 60MIL TPO ROOF OVER 1/2" DENS GLASS GOLD OVER 5/8" PLYWOOD DECKING REFER TO 15/A-6.01
10. 1/2" PERMABASE W/ DIRECT-APPLIED EXTERIOR FINISH STUCCO SYSTEM OVER 1/2" PLYWOOD SHEATHING - SEE DETAIL 16/A-6.00
11. CONCRETE SLAB
12. ~~24 GA. CLASS 'C' PRE-FINISHED VERTICAL SEAM PANEL METAL ROOF SYSTEM OVER 5/8" WOOD DECK. INSTALL WITH STEEL CLIPS FURNISHED BY THE MANUFACTURER. ATTACH CLIPS ALONG LEADING EDGE OF EACH PANEL ROOF SHEATHING PER CONNECTOR'S SPACING REQUIREMENTS ON DRAWING A-4.00. PANEL LOCKS OVER CLIP WITH #10X1" PANCAKE HEAD WOOD SCREW.~~
13. MECH UNIT WH/ OCCURS - SEE DTL 9/A-6.03
14. LINE OF CRICKET WH/ OCCURS TAPERED SLOPE TO DRAIN
15. 1/2" RIGID INSULATION TO UNDERSIDE OF 5/8" WOOD DECK

## EAVE END CUT OPTIONS

- PLUMB CUT ☐
- SQUARE CUT ☐
- GUTTER ☐
- NO GUTTER ☐

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DRAWN BY: ALV
CHECKED BY: GHA

MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

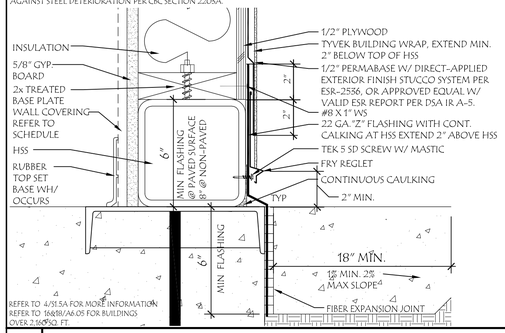
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BUILDING SECTIONS 1 MOD

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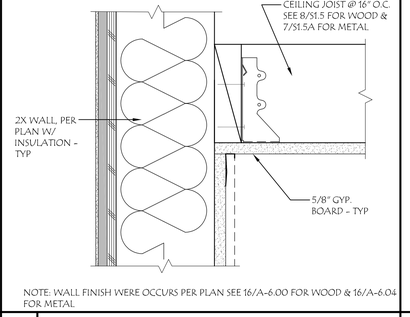
PROJECT NO.
06-0142

DRAWING
**A-5.04**

THE BUILDING DESIGN USES AN ALTERNATE MEANS OF COMPLIANCE FOR FOUNDATION DURABILITY REQUIREMENTS PER CBC SECTIONS 1402.2 AND 1403.2 FOR PROVIDING A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE AND CONTINUOUS WATER-RESISTANT BARRIER ON WALLS DOWN TO TOP OF FOUNDATION WALL, AND SECTION 2304.12.1.2 FOR PROTECTION AGAINST DECAY AND TERMITES ALONG THE ADJACENT EXTERIOR GRADE, AS WELL AS PROTECTION AGAINST STEEL DETERIORATION PER CBC SECTION 2205A.

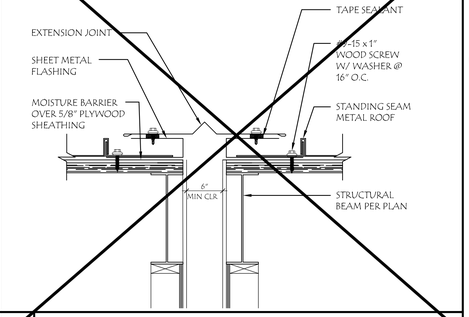



1 PERIMETER FLASHING W/ J SCREED SCALE: 3"=1'-0"

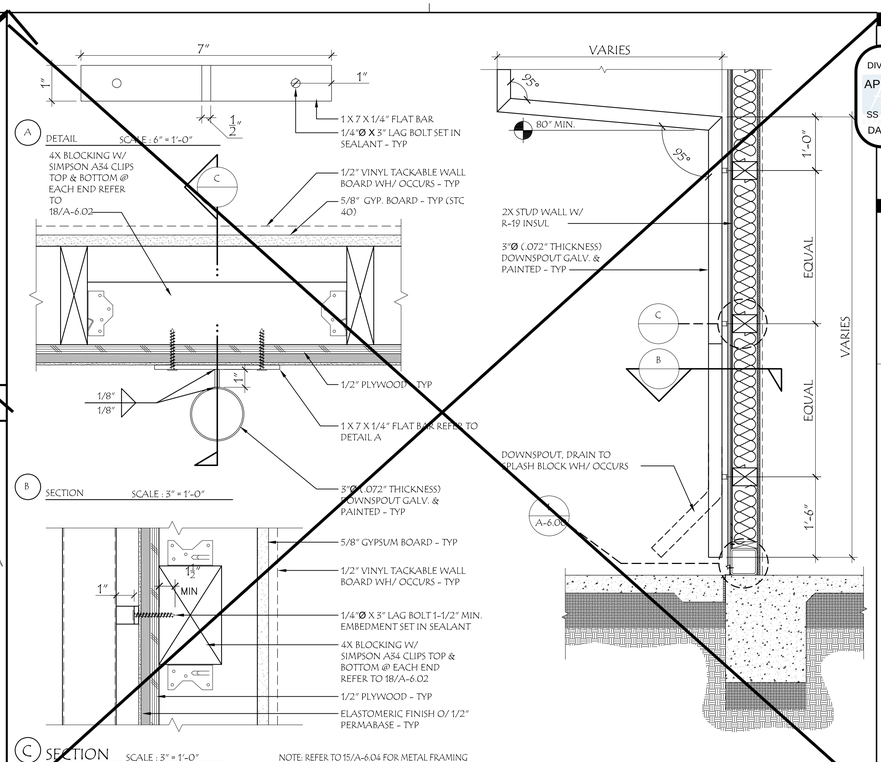



NOTE: WALL FINISH WERE OCCURS PER PLAN SEE 16/A-6.00 FOR WOOD & 16/A-6.04 FOR METAL

2 HARD LID CEILING SCALE: 3"=1'-0"

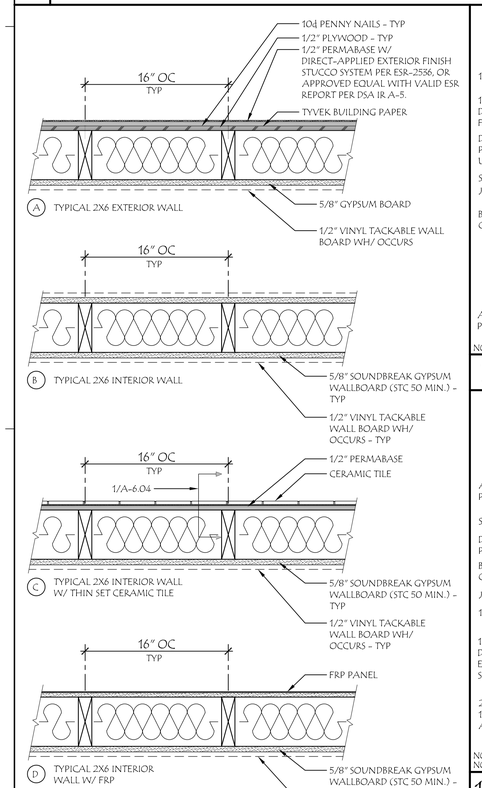



3 ROOF SEISMIC JOINT - OPTIONAL SCALE: NTS



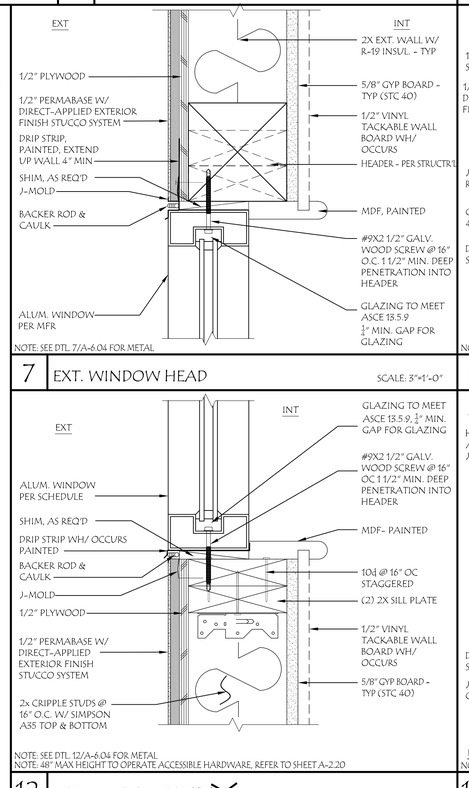

NOTE: REFER TO 15/A-6.04 FOR METAL FRAMING

9 DOWNSPOUT SCALE: 3/4"=1'-0"



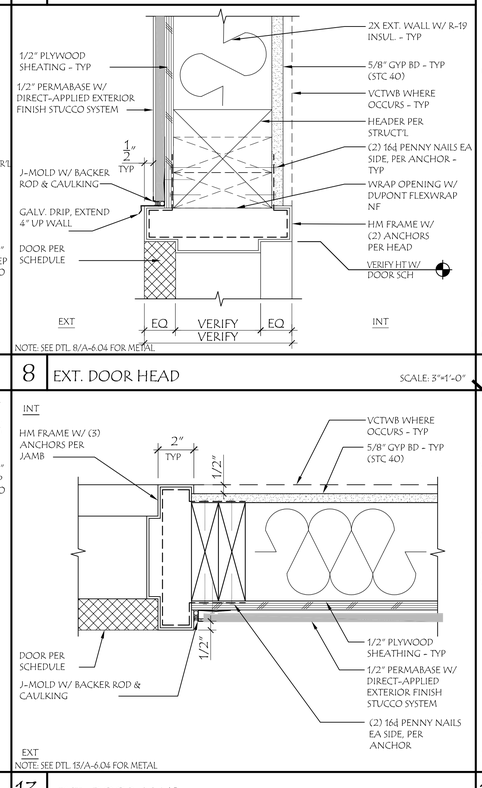

NOTE:
1. ATTACH PLYWOOD W/ 10d PENNY NAILS, SPACING PER STRUCTR'L
2. ATTACH PERMABASE WITH CORROSION RESISTANT #8 X 1 5/8" SCREWS @ 8" MAX VERTICALLY ON EACH STUD, PER, UL ER22158-01
3. ADHERE 1/2" VINYL COVERED TACKABLE WALL BOARD W/ 3M SUPER 77 MULTI-PURPOSE SPRAY ADHESIVE.
4. ALL EXTERIOR WALL TO HAVE MIN. R-19 INSULATION, AND ALL INTERIOR WALL TO HAVE MIN. R-11, UNLESS OTHERWISE NOTED.
5. FOR METAL WALLS REFER TO 16/A-6.04

16 WALL LEGEND SCALE: 1 1/2"=1'-0"




NOTE: SEE DTL. 7/A-6.04 FOR METAL

7 EXT. WINDOW HEAD SCALE: 3"=1'-0"




NOTE: SEE DTL. 8/A-6.04 FOR METAL

8 EXT. DOOR HEAD SCALE: 3"=1'-0"



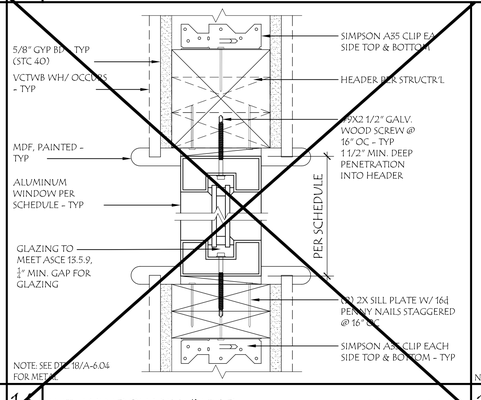

NOTE: SEE DTL. 12/A-6.04 FOR METAL
NOTE: 48" MAX HEIGHT TO OPERATE ACCESSIBLE HARDWARE, REFER TO SHEET A-2.20

12 EXT. WINDOW JAMB/~~SILL~~ SCALE: 3"=1'-0"



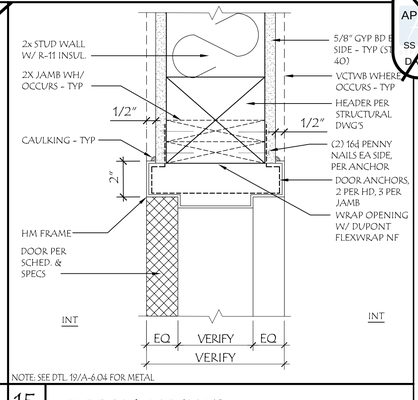

NOTE: SEE DTL. 13/A-6.04 FOR METAL

13 EXT. DOOR JAMB SCALE: 3"=1'-0"



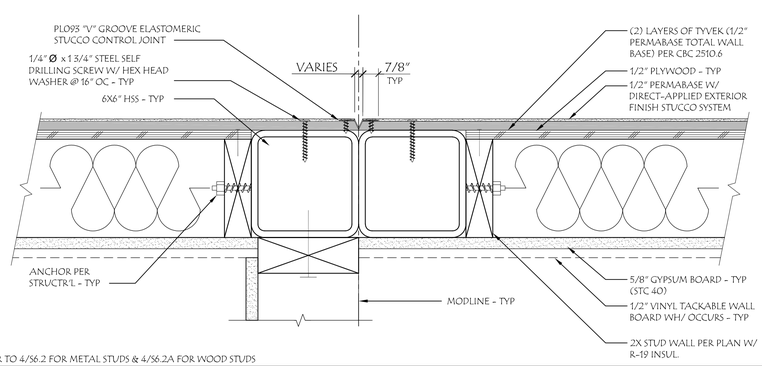

NOTE: SEE DTL. 18/A-6.04 FOR METAL

14 INT. WINDOW SILL/HEAD SCALE: 3" = 1'-0"



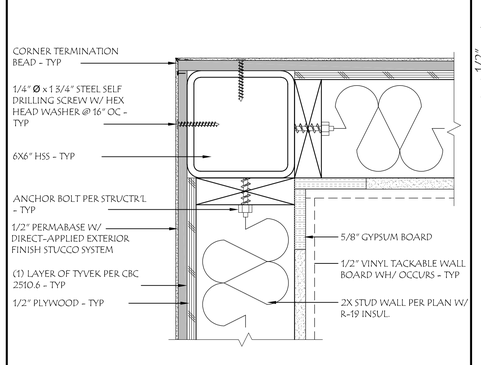

NOTE: SEE DTL. 19/A-6.04 FOR METAL

15 INT. DOOR HEAD/JAMB SCALE: 3"=1'-0"

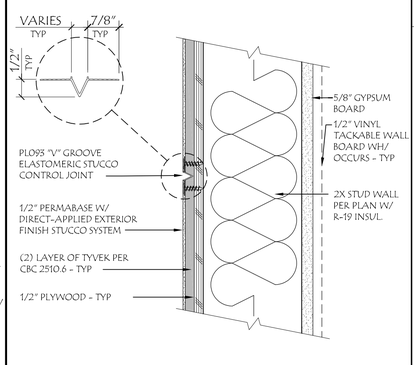



NOTE: REFER TO 4/S6.2 FOR METAL STUDS & 4/S6.2A FOR WOOD STUDS

17 ELASTOMERIC JOINT @ MODLINE SCALE: 3"=1'-0"




19 ELASTOMERIC JOINT @ OUTSIDE CORNER SCALE: 3"=1'-0"




20 ELASTOMERIC JOINT SCALE: 3"=1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119613 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022

APPROVALS
FILE # APPLICATION #

JTS MODULAR
A BETTER WAY TO BUILD
COMMERCIAL INSTITUTIONAL AND RESIDENTIAL MODULAR BUILDINGS
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STRUCTURAL ENGINEER OF RECORD
ORION
Structural Engineering, Inc.
11305 Rancho Bernard RD., Suite 121
San Diego, CA 92127
PHONE (858) 679-1974
FAX (858) 679 1975
REGISTERED PROFESSIONAL ENGINEER RYAN J. OMER No. S 4 EXP. 12/31/22 STRUCTURAL STATE OF CALIFORNIA

DRAWN BY: ALV CHECKED BY: GHA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118526 PC
REVIEWED FOR
SS ☐ FLS ☑ ACS ☑ CO ☑
DATE: 12/14/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

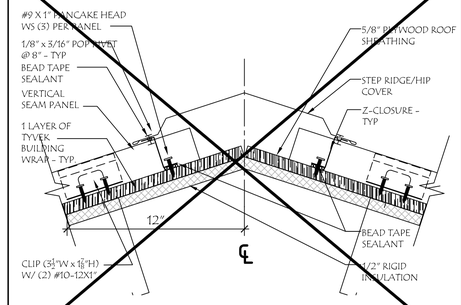
MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE: DETAILS

DSA APP NO.
02-119613

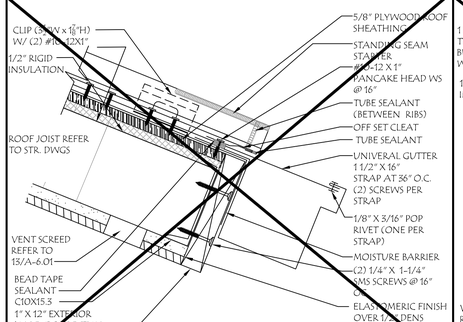
PROJECT NO.
06-0142

DRAWING
A-6.00

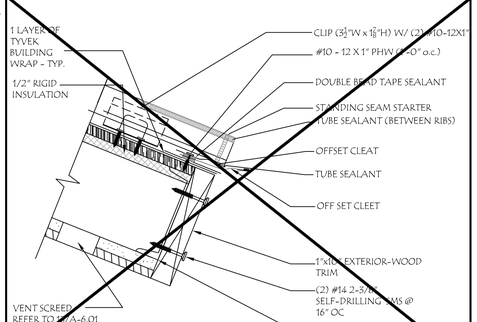
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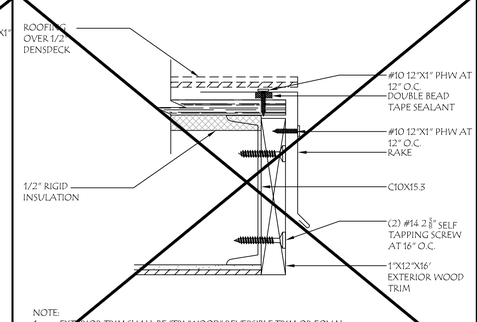

1 RIDGE SCALE: NTS




2 GUTTER - SQUARE CUT SCALE: NTS

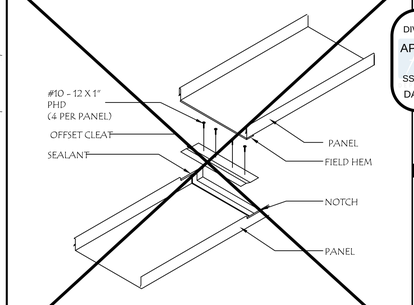



3 EXTENDED EAVE - SQUARE CUT SCALE: NTS

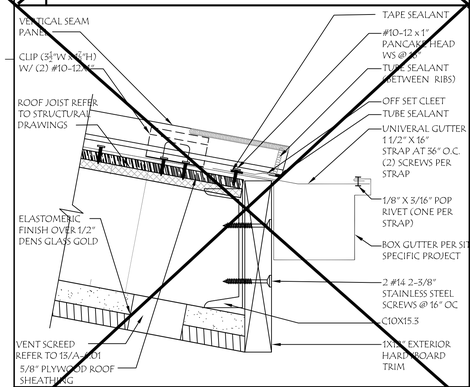



NOTE:
1. EXTERIOR TRIM SHALL BE "TRUWOOD" REVERSIBLE TRIM OR EQUAL

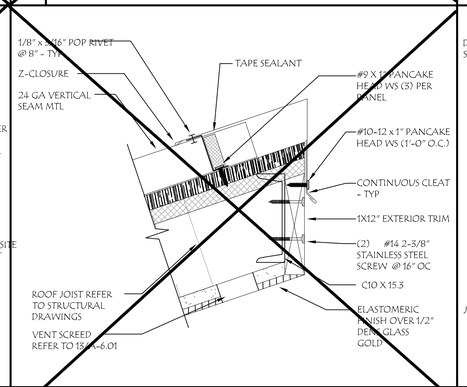
4 RAKE SCALE: NTS



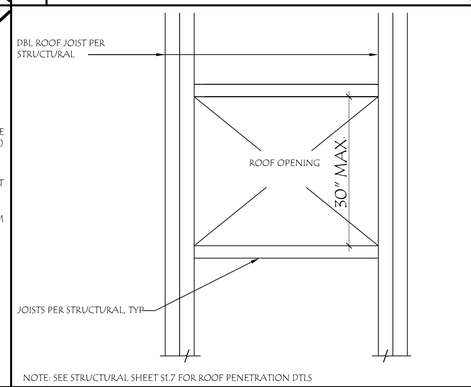

5 ROOF PANEL ENDLAP JOINT SCALE: NTS




6 GUTTER - PLUMB CUT SCALE: NTS

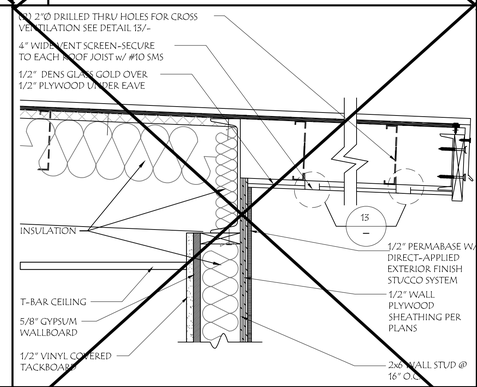



7 EXTENDED EAVE - SQUARE CUT SCALE: NTS

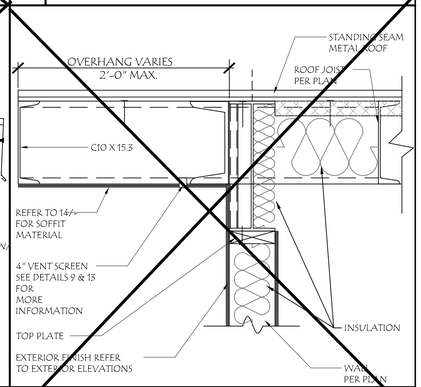



NOTE: SEE STRUCTURAL SHEET S1.7 FOR ROOF PENETRATION DTLS

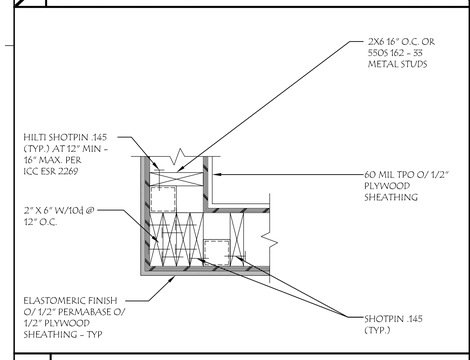
8 ROOF PENETRATIONS SCALE: NTS



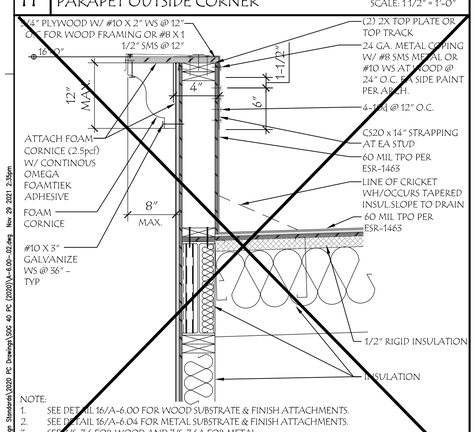

9 EAVE VENT @ OVERHANG SCALE: NTS




10 SIDEWALL WITH OVERHANG SCALE: NTS

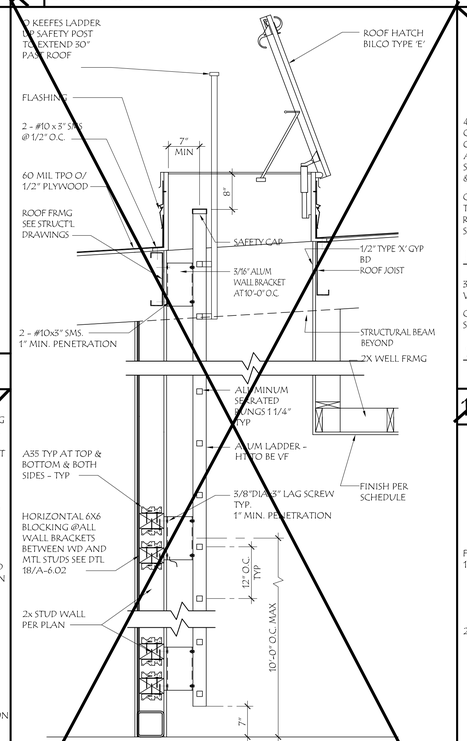



11 PARAPET OUTSIDE CORNER SCALE: 1 1/2" = 1'-0"



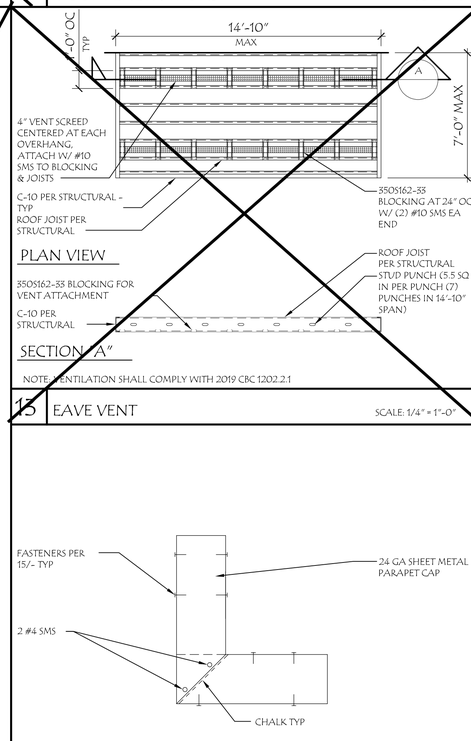

NOTE:
1. SEE DETAIL 16/A-6.00 FOR WOOD SUBSTRATE & FINISH ATTACHMENTS.
2. SEE DETAIL 16/A-6.04 FOR METAL SUBSTRATE & FINISH ATTACHMENTS.
3. SEE 7/S-7.6 FOR WOOD AND 7/S-7.6A FOR METAL

16 OPTIONAL CORNIS SCALE: 1" = 1'-0"



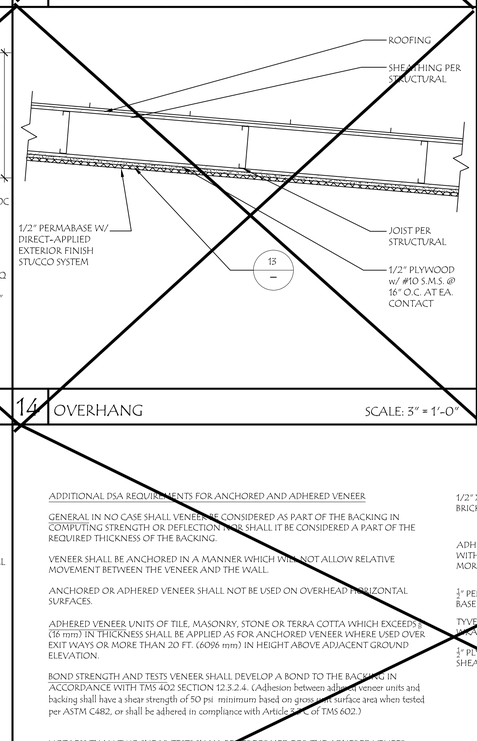

NOTE:
1. SEE DTL 2/A-6.03 BILCO SAFETY GUARD RAIL
2. SEE 7/S1.7 FOR ROOF FRAMING @ ACCESS HATCH

17 LADDER TO ROOF HATCH SCALE: 3/4"=1'-0"

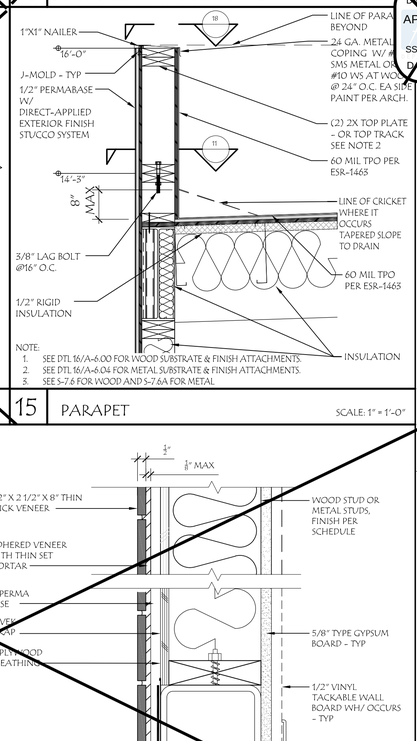



NOTE: VENTILATION SHALL COMPLY WITH 2019 CBC 1202.2.1

13 EAVE VENT SCALE: 1/4" = 1'-0"




14 OVERHANG SCALE: 3" = 1'-0"




NOTE:
1. SEE DTL 16/A-6.00 FOR WOOD SUBSTRATE & FINISH ATTACHMENTS.
2. SEE DTL 16/A-6.04 FOR METAL SUBSTRATE & FINISH ATTACHMENTS.
3. SEE 5-7.6 FOR WOOD AND 5-7.6A FOR METAL

15 PARAPET SCALE: 1" = 1'-0"




18 PARAPET OUTSIDE CORNER FLASHING SCALE: 11/2"=1'-0"

ADDITIONAL DSA REQUIREMENTS FOR ANCHORED AND ADHERED VENEER

GENERAL IN NO CASE SHALL VENEER BE CONSIDERED AS PART OF THE BACKING IN COMPUTING STRENGTH OR DEFLECTION NOR SHALL IT BE CONSIDERED A PART OF THE REQUIRED THICKNESS OF THE BACKING.

VENEER SHALL BE ANCHORED IN A MANNER WHICH WILL NOT ALLOW RELATIVE MOVEMENT BETWEEN THE VENEER AND THE WALL.

ANCHORED OR ADHERED VENEER SHALL NOT BE USED ON OVERHEAD OR HORIZONTAL SURFACES.

ADHERED VENEER UNITS OF TILE, MASONRY, STONE OR TERRA COTTA WHICH EXCEEDS 5" (76 mm) IN THICKNESS SHALL BE APPLIED AS FOR ANCHORED VENEER WHERE USED OVER EXIT WAYS OR MORE THAN 20 FT. (6096 mm) IN HEIGHT ABOVE ADJACENT GROUND ELEVATION.

BOND STRENGTH AND TESTS VENEER SHALL DEVELOP A BOND TO THE BACKING IN ACCORDANCE WITH TMS 402 SECTION 12.5.2.4. (Adhesion between adhered veneer units and backing shall have a shear strength of 50 psi minimum based on gross unit surface area when tested per ASTM C482, or shall be adhered in compliance with Article 5.2 of TMS 602.)

NOT LESS THAN TWO SHEAR TESTS SHALL BE PERFORMED FOR THE ADHERED VENEER BETWEEN THE UNITS AND THE SUPPORTING ELEMENT. AT LEAST ONE SHEAR TEST SHALL BE PERFORMED AT EACH BUILDING FOR EACH 5,000 SQ. FT. (465 m²) OF FLOOR AREA OR FRACTION THEREOF.

REFER TO 4/A-6.07 FOR MORE INFORMATION




19 THIN SET BRICK VENEER (OPTIONAL) SCALE: NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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DATE: 03/04/2022

APPROVALS
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Bakersfield, CA 93313
Office: (661) 835-9270
Fax: (661) 847-1007
www.jtsmodular.com


STRUCTURAL ENGINEER OF RECORD
ORION
Structural Engineering, Inc.
11305 Rancho Bernard RD., Suite 121
San Diego, CA 92127
PHONE (858) 679-1974
FAX (858) 679 1975

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4
EXP. 06/30/22
STRUCTURAL
STATE OF CALIFORNIA

DRAWN BY: ALV
CHECKED BY: GHA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118526 PC
REVIEWED FOR
SS ☐ FLS ☑ ACS ☑ CO ☑
DATE: 12/14/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

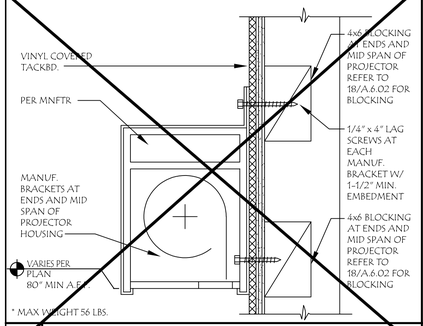
MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
DETAILS

DSA APP NO.
02-119613

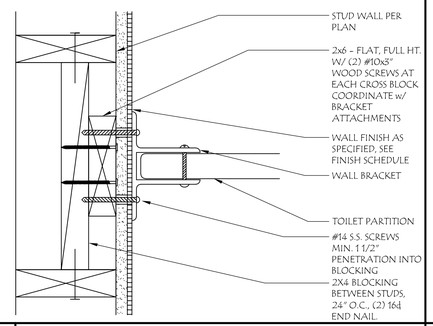
PROJECT NO.
06-0142

DRAWING
A-6.01

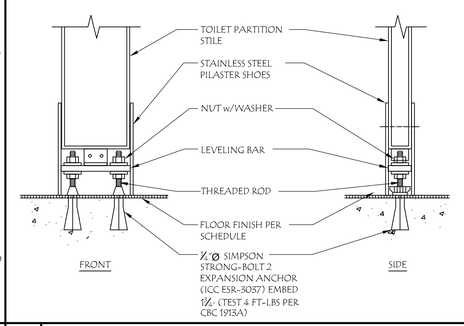
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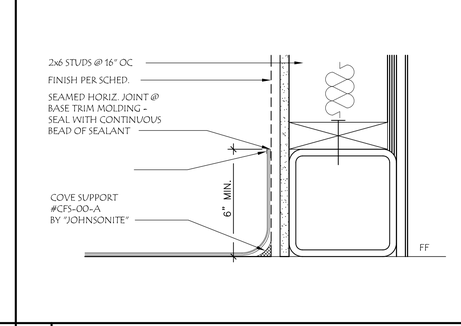

1 PROJECTOR SCREEN SCALE: NTS



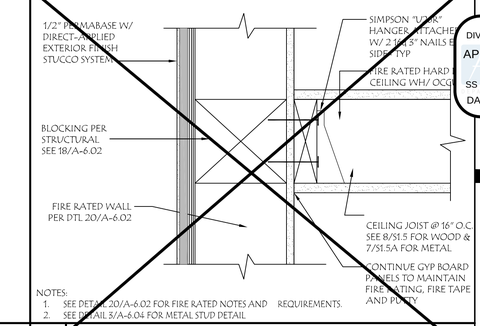

2 TOILET PARTITION @ WALL SCALE: NTS




3 TOILET PARTITION @ FLOOR SCALE: NTS

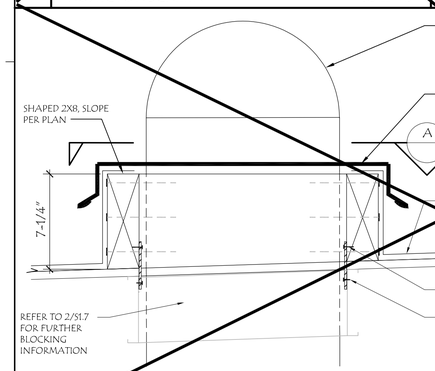



4 COVE AT BASE SCALE: 3" = 1'-0"

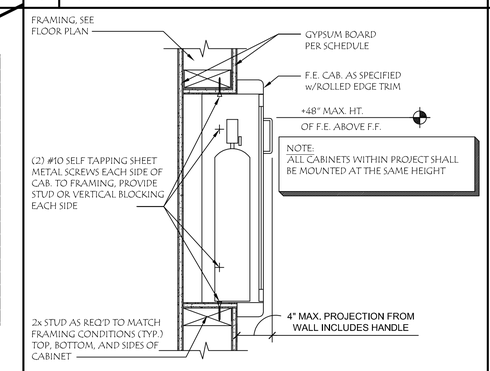



NOTES:
1. SEE DETAIL 20/A-6.02 FOR FIRE RATED NOTES AND REQUIREMENTS.
2. SEE DETAIL 3/A-6.04 FOR METAL STUD DETAIL

5 HARD LID CEILING @ FIRE WALL SCALE: 3"=1'-0"

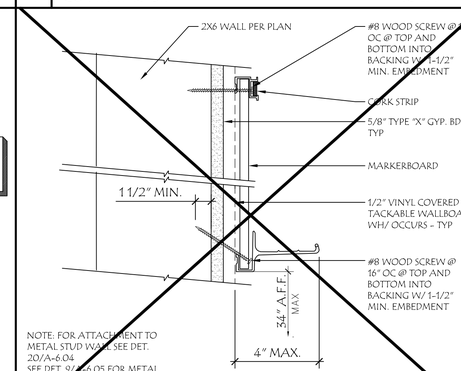



6 SOLATUBE CURB CAP SCALE: 3"=1'-0"



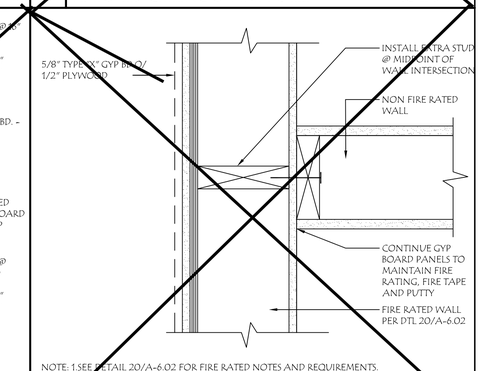

NOTE: REFER TO 14/A-6.04 FOR METAL STUD CONDITION

8 NON-FIRE RATED RECESSED FIRE CABINET SCALE: 3"=1'-0"



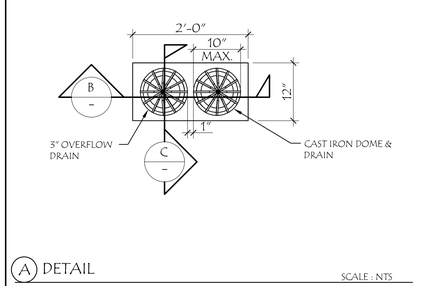

NOTE: FOR ATTACHMENT TO METAL STUD WALL SEE DET. 20/A-6.04
SEE DET. 9/A6.05 FOR METAL STUD

9 MARKERBOARD ATTACHMENT SCALE: NTS

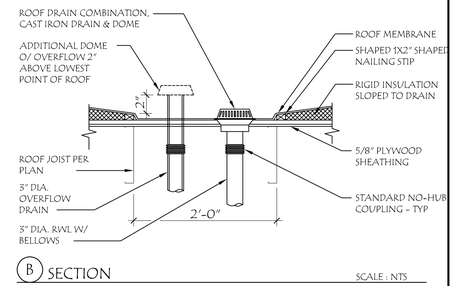



NOTE: 1.SEE DETAIL 20/A-6.02 FOR FIRE RATED NOTES AND REQUIREMENTS.
2. REFER TO 3/A-6.04 FOR METAL STUD DETAIL

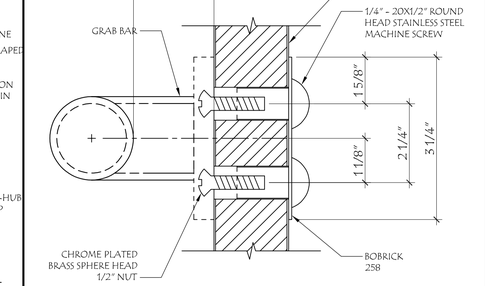
10 NON FIRE RATED INTERSECTION W/ FIRE RATED WALL SCALE: 3"=1'-0"



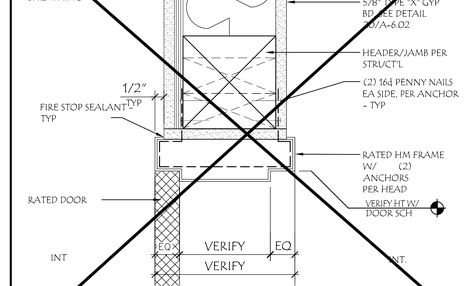

A DETAIL SCALE : NTS




B SECTION SCALE : NTS

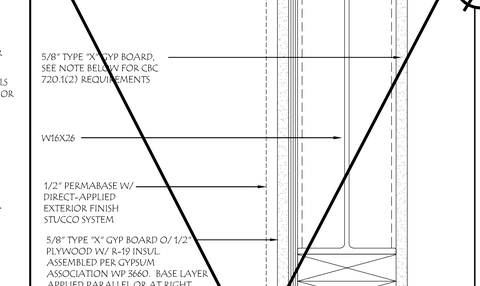



13 GRAB BAR ANCHORS FOR PARTITIONS SCALE: NTS



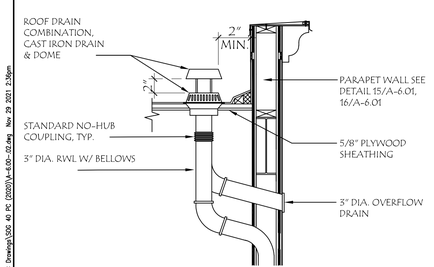

NOTE: SEE DETAIL 20/A-6.02 FOR FIRE RATED ASSEMBLY NOTES AND REQUIREMENTS
SEE 8 ON 9/A-6.04 FOR METAL STUD

14 FIRE RATED DOOR HEAD/JAMB SCALE: 3" = 1'-0"

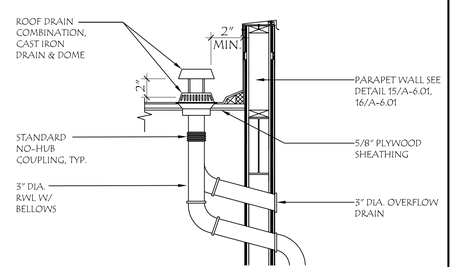



NOTES:
WALL ASSEMBLY CONFORMS TO TABLE 721.1(2) 2019 CBC
(GA FILE NO WP 5660) FIRE TEST: ITS J99-22441.2,10-99
PENETRATIONS THROUGH FIRE BARRIER SHALL BE PROTECTED WITH A FIRE RATING OF AT LEAST 1-HR. REFER TO CBC SECTION 714.3.1.2
1 HR = 15-1.13
15-1.13 EXTERIOR OR INTERIOR WALLS
2"x6" WOOD STUDS AT 16" WITH DOUBLE TOP PLATES, SINGLE BOTTOM PLATE; INTERIOR AND EXTERIOR SIDES COVERED WITH ⅝" TYPE X GYPSUM WALLBOARD,4' WIDE, APPLIED VERTICALLY WITH ALL JOINTS OVER FRAMING OR BLOCKING AND FASTENED WITH TYPE S DRYWALL SCREWS. R-19 FIBERGLASS INSULATION INSTALLED IN STUD CAVITY.
SEE 20/A-6.05 FOR METAL STUD DETAIL

20 1-HR FIRE RATED WALL ASSEMBLY SCALE: 3"=1'-0"



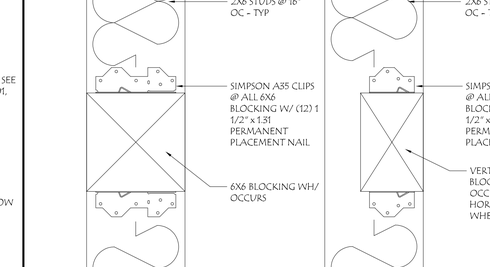

C SECTION SCALE : NTS




D SECTION SCALE : NTS

NOTE: SEE DTL 7/S1.7 FOR ROOF DRAIN PENETRATION DTL

16 ROOF DRAIN




A SECTION B SECTION C BLOCKING ELEVATION

NOTE: REFER 15/A-6.04 FOR METAL STUD CONDITION

18 TYPICAL BLOCKING SCALE: 3"=1'-0"

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11305 Rancho Bernard RD., Suite 121
San Diego, CA 92127
PHONE (858) 679-1974
FAX (858) 679 1975

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 44
EXP. 06/30/22
STRUCTURAL
STATE OF CALIFORNIA

DRAWN BY: ALV
CHECKED BY: GHA

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DIV. OF THE STATE ARCHITECT
APP: 02-118526 PC
REVIEWED FOR
SS ☐ FLS ☑ ACS ☑ CO ☑
DATE: 12/14/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

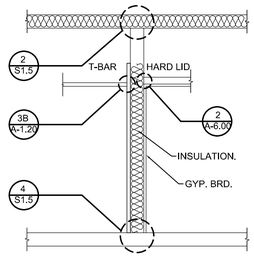
MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
DETAILS

DSA APP NO.
02-119613

PROJECT NO.
06-0142

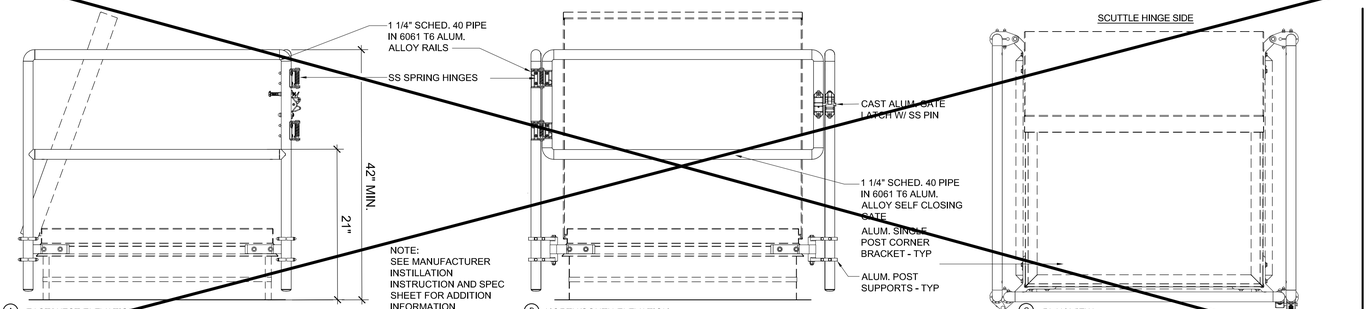
DRAWING
A-6.02

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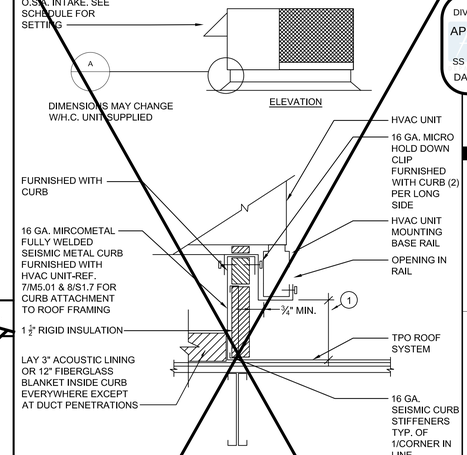



NOTE: SEE DETAIL MECHANICAL DRAWINGS FOR VENTILATION 9/M5.01

1 SECTION SCALE: 3/8" = 1'




2 BILCO RL2-E BIL GUARD HATCH RAIL SYSTEM SCALE: NTS

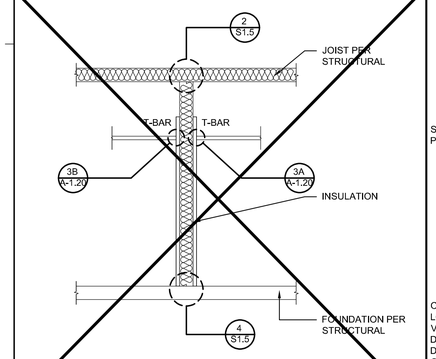



1 CURB TO HAVE A MINIMUM 8" & MAXIMUM 14" CLEARANCE BETWEEN FINISH ROOF & BOTTOM OF HVAC EQUIPMENT & ACCESSORIES

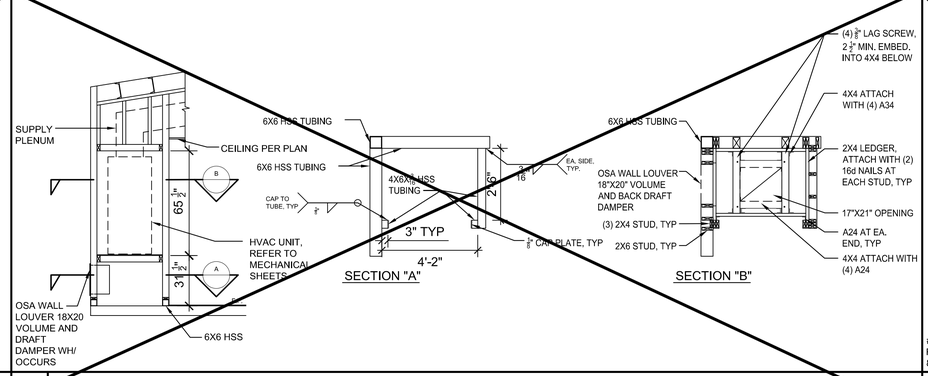
| UNIT | LENGTH | WIDTH | HEIGHT |
|---|---|---|---|
| 4 TON | 6' 2.375" | 3' 10.75" | 3' 5.375" |
| 5 TON | 6' 2.375" | 3' 10.75" | 3' 5.375" |

NOTES:
1. REFER TO STRUCTURAL DETAILS 8/S1.7 FOR MECHANICAL CURB ANCHORAGE

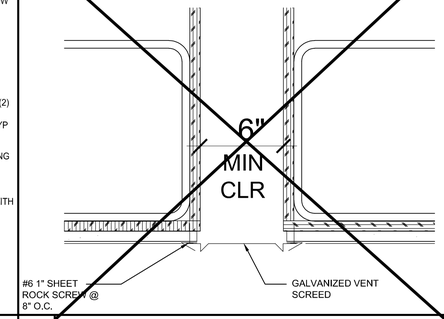
10 ROOF MOUNTED MECH. UNIT SCALE: N



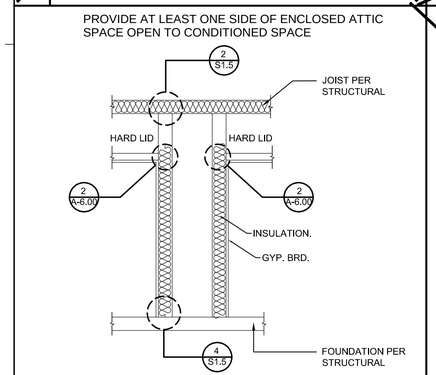

6 SECTION SCALE: 3/8" = 1'




7 VERTICAL HVAC CABINET SCALE: NTS

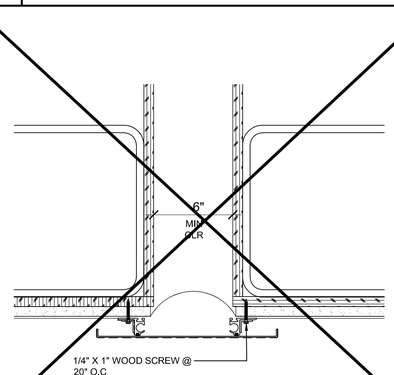



9 EXTERIOR WALL SEISMIC COVER SCALE: NTS

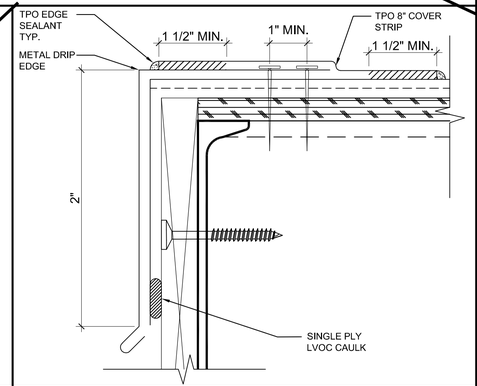



NOTE: SEE DETAIL MECHANICAL DRAWINGS FOR VENTILATION 8/M5.02

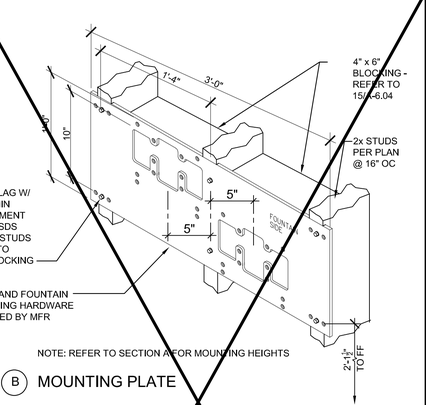
11 SECTION SCALE: 3/8" = 1'




12 EXT. WALL SEISMIC COVER (OPTIONAL) SCALE: NTS

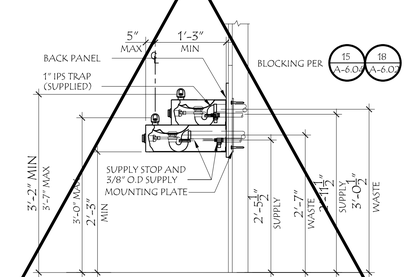



13 DRIP EDGE DETAIL @ CANOPY




NOTE: REFER TO SECTION A FOR MOUNTING HEIGHTS

B MOUNTING PLATE

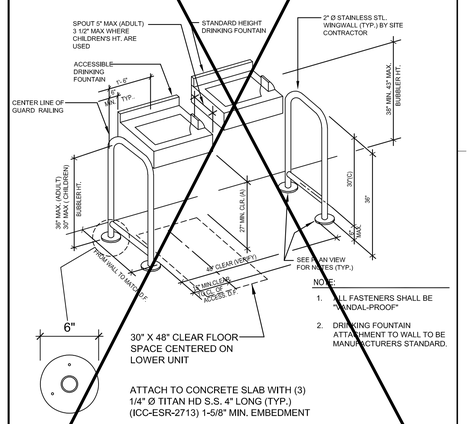



A SECTION

19 HI-LOW DF MOUNTING SCALE: 3"=1'-0"

DRINKING FOUNTAINS

1. WHERE MORE THAN THE MIN. NUMBER OF DRINKING FOUNTAINS SPECIFIED IN SECTION 11B-211.2 ARE PROVIDED, 50% OF THE TOTAL NUMBERS OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH SECTIONS 11B-602.1 + 11B-602.6, 11B-602.8 AND 11B-602.9 AND 50% OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH SECTIONS 11B-602.7 AND 11B-602.9
2. THE DRINKING FOUNTAIN SHALL BE A MIN. OF 18" AND 19" MAX. IN DEPTH AND THERE SHALL BE A CLEAR AND UNOBSTRUCTED KNEE SPACE UNDER THE DRINKING FOUNTAIN NOT LESS THAN 27" IN HEIGHT AND 8" IN DEPTH TO 9" IN HEIGHT AND 11" IN DEPTH, THE DEPTH MEASUREMENT BEING TAKEN FROM THE FRONT EDGE OF THE FOUNTAIN, ADDITIONALLY THERE SHALL BE TOE CLEARANCE OF 9" IN HEIGHT ABOVE THE FLOOR, AND 17" MIN. IN DEPTH FROM THE FRONT EDGE OF THE FOUNTAIN. A SIDE APPROACH DRINKING FOUNTAIN IS ACCEPTABLE FOR CHILDREN.
3. THE BUBBLER SHALL BE ACTIVATED BY A CONTROL EASILY OPERATED BY A PHYSICALLY DISABLES PERSON. THE FLOW SHALL BE ACTIVATED BY A MANUALLY OPERATED SYSTEM, FRONT-MOUNTED OR SIDE-MOUNTED AND WITHIN 6" OF THE FRONT EDGE OF THE FOUNTAIN OR ELECTRONICALLY CONTROLLED DEVISE. WHERE SPOUTS ARE LOCATED LESS THAN 5" OF THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAX. WHERE SPOUTS ARE LOCATED BETWEEN 3" AND 5" MAX. FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAX.
4. THE DRINKING FOUNTAIN SHALL BE LOCATED COMPLETELY WITHIN ALCOVES OR SO POSITIONED AS TO NOT ENCROACH INTO PEDESTRIAN WAYS.

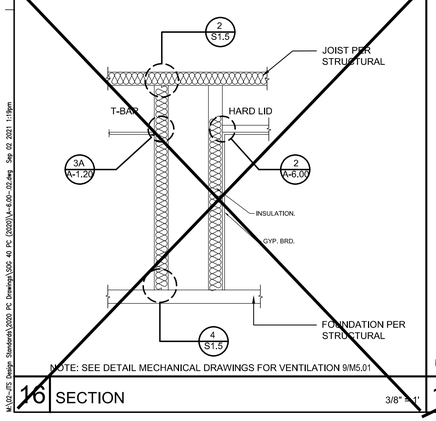



NOTE:
1. ALL FASTENERS SHALL BE "VANDAL-PROOF"
2. DRINKING FOUNTAIN ATTACHMENT TO WALL TO BE MANUFACTURERS STANDARD.

PLAN VIEW

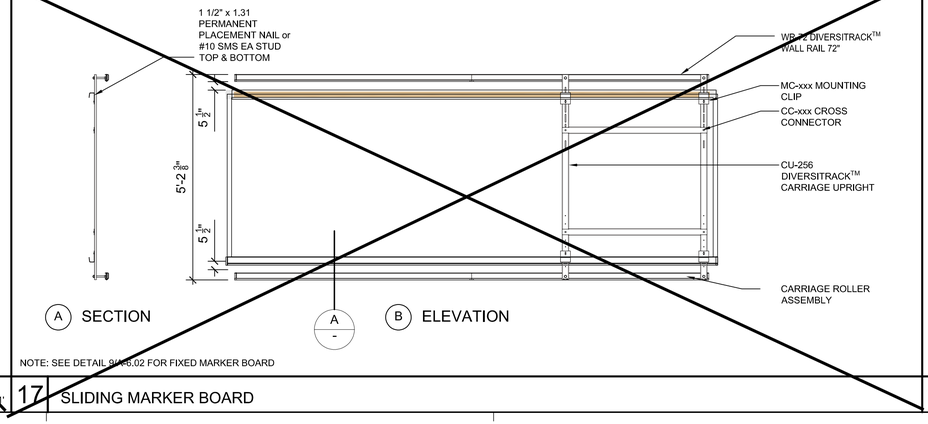
NON-ALCOVES APPLICATION

20 DRINKING FOUNTAIN SCALE: NTS




NOTE: SEE DETAIL MECHANICAL DRAWINGS FOR VENTILATION 9/M5.01

16 SECTION 3/8" = 1'




NOTE: SEE DETAIL 9/M5.02 FOR FIXED MARKER BOARD

17 SLIDING MARKER BOARD

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REGISTERED PROFESSIONAL ENGINEER RYAN J. OMER No. S 4 EXP. 09/30/22 STRUCTURAL STATE OF CALIFORNIA

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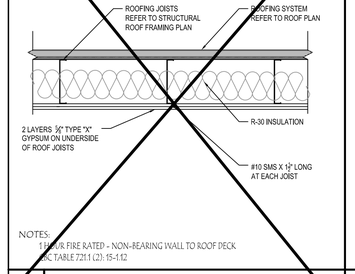
MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE
DETAILS

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
A-6.03

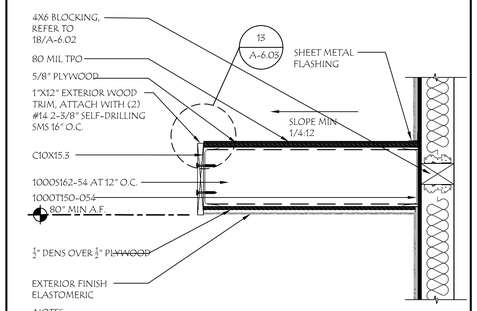
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NOTES:
1 HOUR FIRE RATED - NON-BEARING WALL TO ROOF DECK
PER TABLE 721.1 (2): 15-1.12

1 1-HR FIRE RATED ROOF SCALE: 3/4" = 1'-0"

2 NOT USED

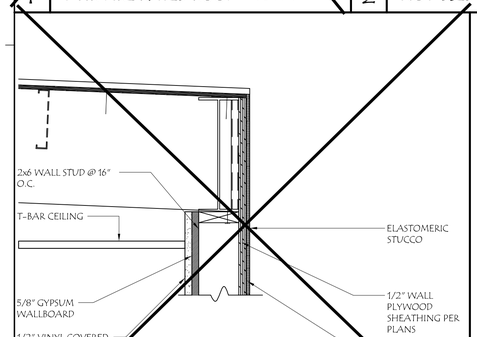



NOTES:
1. REFER TO DETAIL 16/A-6.00 FOR EXTERIOR FINISH
2. REFER TO 1 and 10/S1.8 FOR ADDITIONAL INFORMATION

3 CANOPY SCALE: 1"= 1'-0"

4

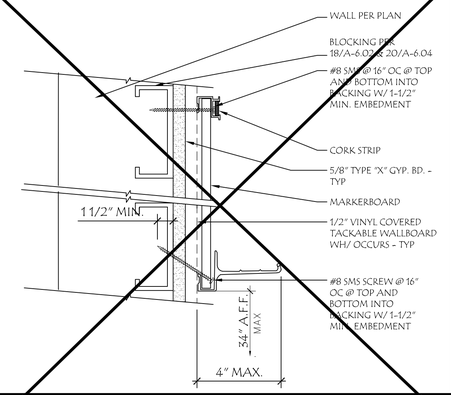
5 NOT USED



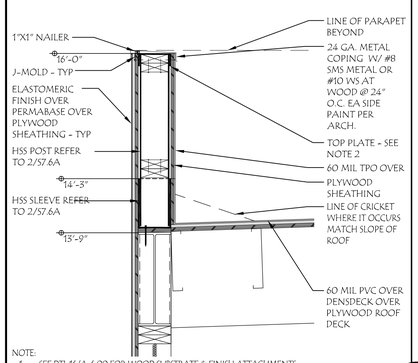

6 NO OVERHANG CONDITION

7 NOT USED

8 NOT USED




9 MARKERBOARD ATTACHMENT SCALE: N.T.S.




NOTE:
1. SEE DTL 16/A-6.00 FOR WOOD SUBSTRATE & FINISH ATTACHMENTS.
2. SEE DTL 18/A-6.04 FOR METAL SUBSTRATE & FINISH ATTACHMENTS.
3. SEE 6/S7.5

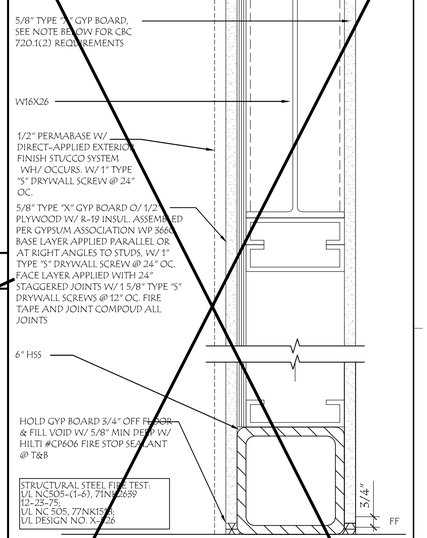
10 PARAPET DETAIL SCALE: 1"= 1'-0"

11 NOT USED

12 NOT USED

13 NOT USED

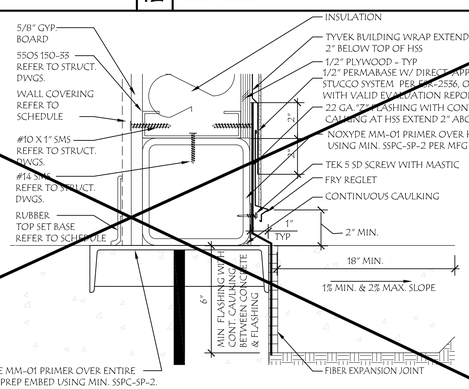
14 NOT USED




NOTES:
WALL ASSEMBLY CONFORMS TO TABLE 721.1(2) 2019 CBC
(GA FILE NO. WP 3660) FIRE TEST: ITS J99-22441.2,10-99
PENETRATIONS THROUGH FIRE BARRIER SHALL BE PROTECTED WITH A FIRE RATING OF AT LEAST 1 HR, REFER TO CBC SECTION 714.5.1.2
1 HR = TL15
2"x6" WOOD STUDS AT 16" WITH DOUBLE TOP PLATES, SINGLE BOTTOM PLATE. INTERIOR AND EXTERIOR SIDES COVERED WITH ½" TYPE X GYPSUM WALLBOARD,4' WIDE, APPLIED VERTICALLY WITH ALL JOINTS OVER FRAMING OR BLOCKING AND FASTENED WITH TYPE S DRYWALL SCREWS. R-19 FIBERGLASS INSULATION INSTALLED IN STUD CAVITY.

20 1-HR FIRE RATED WALL ASSEMBLY SCALE: 3"=1'-0"

16 PERIMETER FLASHING (METAL STUD WALL) SCALE: 3"=1'-0"



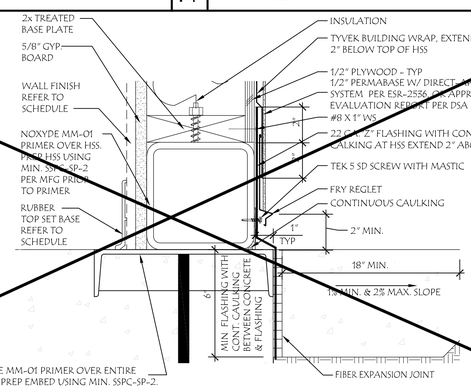

THE BUILDING DESIGN USES AN ALTERNATE MEANS OF COMPLIANCE FOR FOUNDATION DURABILITY REQUIREMENTS PER CBC SECTIONS 1402.2 AND 1403.2 FOR PROVIDING A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE AND CONTINUOUS WATER-RESISTANT BARRIER FOR WALLS DOWN TO TOP OF FOUNDATION WALL, AND SECTION 2304.12.1.2 FOR PROTECTION AGAINST DECAY AND TERMITES ALONG THE ADJACENT EXTERIOR GRADE, AS WELL AS PROTECTION AGAINST STEEL DETERIORATION PER CBC SECTION 2203A.

NOXYDE MM-01 PRIMER, A MINIMUM OF TWO COATS ARE REQUIRED FOR A TOTAL MINIMUM DRY FILM THICKNESS OF 14 MILS.

AT WELDING AREAS REMOVE NOXYDE MM-01 TO BARE STEEL PER SSPC-SP6.

APPLY NOXYDE MM-01 PRIMER, A MINIMUM OF TWO COATS ON ALL WELDED AREAS

18 PERIMETER FLASHING (WOOD STUD WALL) SCALE: 3"=1'-0"




THE BUILDING DESIGN USES AN ALTERNATE MEANS OF COMPLIANCE FOR FOUNDATION DURABILITY REQUIREMENTS PER CBC SECTIONS 1402.2 AND 1403.2 FOR PROVIDING A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE AND CONTINUOUS WATER-RESISTANT BARRIER FOR WALLS DOWN TO TOP OF FOUNDATION WALL, AND SECTION 2304.12.1.2 FOR PROTECTION AGAINST DECAY AND TERMITES ALONG THE ADJACENT EXTERIOR GRADE, AS WELL AS PROTECTION AGAINST STEEL DETERIORATION PER CBC SECTION 2203A.

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APPLY NOXYDE MM-01 PRIMER, A MINIMUM OF TWO COATS ON ALL WELDED AREAS

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REGISTERED PROFESSIONAL ENGINEER
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DETAILS

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02-119613

PROJECT NO.
06-0142

DRAWING
A-6.05

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## CONCRETE:

1. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE 2019 C.B.C. AND THE A.C.I. 318–14 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
2. SLAB AND FOUNDATION CONCRETE SHALL BE 150 P.C.F. HARDROCK, MIXED PER A.S.T.M. C–94, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 P.S.I. AT 28 DAY. MAX. SLUMP TO BE 4" ± 1" OF W/C RATIO ≤ .45
3. CONCRETE LIMITED TO EXPOSURE CLASS F0, S1, W1 AND C1
4. THE MAXIMUM SIZE AGGREGATE IN FOUNDATION AND MASS CONCRETE WORK SHALL BE 1 INCH.
5. CEMENT SHALL CONFORM TO A.S.T.M.. C–150, TYPE II, LOW ALKALI. AGGREGATES FOR NORMAL WEIGHT SHALL CONFORM TO A.S.T.M. C–33.
6. ADMIXTURES AND COLORS (EXCEPT AS NOTED HEREIN) SHALL NOT BE USED UNLESS SUBSTANTIATING DATA IS SUBMITTED TO AND ACCEPTED BY THE ENGINEER AND ARCHITECT OF RECORD AND DSA.
7. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. THE MIX DESIGNS SHALL CONFORM TO ACI 318–14 SECTION 26.4.3. UNLESS NOTED OTHERWISE.
8. NON–STRUCTURAL STEEL EMBEDDED IN CONCRETE SHALL BE GALVANIZED OR PAINTED. ALL DAMAGED GALVANIZED AREAS SHALL BE REPAIRED PRIOR TO EMBEDMENT.
9. PROVIDE 1– #5 DIAGONAL BARS AT CORNERS OF FLOOR AND INSIDE CORNERS OF FLOORS LOCATED AT MID–DEPTH OF SLAB.
10. READY MIXED CONCRETE SHALL CONFORM TO (A.S.T.M. C–94).
11. PLACEMENT OF CONCRETE SHALL CONFORM THE 2019 C.B.C. AND THE TO A.C.I. 304. CLEAN AND ROUGHEN A FULL AMPLITUDE OF ¼" BY REMOVING THE ENTIRE SURFACE AND EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX AGAINST ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE POURED.
12. ALL EXPOSED CONCRETE SHALL HAVE A SMOOTH FORM FINISH USING B–B PLYFORM, CLASS I, EXT–A.P.A. PLYWOOD.
13. ALL SLABS SHALL HAVE A TROWELED FINISH EXCEPT AS NOTED ON THE DRAWINGS.
14. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
15. IF THE CONTRACTOR DESIRES TO MAKE ANY CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THESE DRAWINGS, HE SHALL SUBMIT DETAILS OF CHANGES TO THE ENGINEER OF RECORD FOR REVIEW BEFORE STARTING WORK AND THE ENGINEER OF RECORD TO OBTAIN DSA APPROVAL PRIOR TO STARTING WORK.
16. NO BRICK OR POROUS MATERIAL SHALL BE USED TO SUPPORT FOUNDATION STEEL OFF THE GROUND.
17. PROVIDE 1/2 INCH CHAMFER ON ALL EXPOSED CONCRETE CORNERS, U.N.O.
18. MINIMUM CONCRETE COVERAGES

| | |
|---|---|
| FOOTINGS CAST AGAINST EARTH | 3" |
| FORMED CONCRETE EXPOSED TO EARTH OR WEATHER | 2" |

19. CONCRETE CURING:
SLAB AND FDN; TYPICALLY REQUIRED FOR 10 DAYS TO ACHIEVE A MINIMUM OF 3000 PSI STRENGTH PRIOR TO INSTALLATION OF OTHER MAJOR STRUCTURAL COMPONENTS.

## FOUNDATION:

1. THIS P.C. IS DESIGN TO THE C.B.C. TABLE 1806A.2 CLASS 5 MATERIAL MINIMUM. WHERE SOIL REPORT IS AVAILABLE; ATTACH ONE COPY OF SOILS REPORT TO THE APPROVED SET OF CONSTRUCTION DOCUMENTS. SOILS REPORT SHALL BE PART OF THESE NOTES. PRIOR TO THE POURING OF CONCRETE AND PRIOR TO THE CONTRACTOR REQUESTING A DSA FOUNDATION INSPECTION, THE GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE THE FOOTING EXCAVATIONS. HE SHALL POST NOTICE ON THE JOB SITE AND ADVISE THE DSA INSPECTOR IN WRITING THAT THE WORK SO INSPECTED MEETS THE CONDITIONS OF THE REPORT. A WRITTEN CERTIFICATION TO VERIFY THAT:
   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOIL REPORT.
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED, AND
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.
2. SOIL REMOVAL AND RECOMPACTION SHALL BE DONE PER SOILS REPORT RECOMMENDATIONS UNDER GEOTECHNICAL ENGINEER'S SUPERVISION AND INSPECTION. IF NO SOILS REPORT IS AVAILABLE, DSA INSPECTOR TO VERIFY SOIL EXPOSED, SOIL STRATA & COMFIRM MATERIALS ARE SUITABLE FOR PROPOSED CONSTRUCTION.
3. TYPE OF FOOTING:
   A. SHALLOW FOOTING SYSTEM MINIMUM EMBEDMENT 18" BELOW LOWEST ADJACENT GRADE.
   DESIGN SOIL PRESSURE:

| FOOTING TYPE | STATIC BEARING PRESSURE (DL+LL) |
|---|---|
| SPREAD FOOTING | 1,500 |
| CONTINUOUS FOOTING | 1,500 |
| NO 1/3 SHORT TERM INCREASE | |

4. NO PIPES OR DUCTS SHALL BE PLACED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED AND APPROVED BY THE ENGINEER AND DSA.
5. FOR ALL DIMENSIONS, CURBS, SLAB DEPRESSIONS, STEPS, FLOOR DRAINS, FLOOR SINKS, TRENCHES, UNDER FLOOR DUCTS AND CONDUITS, SEE ARCHITECTURAL, MECHANICAL, AIR CONDITIONING, PLUMBING, AND ELECTRICAL DRAWINGS, TRENCH BACKFILL AS PER SOILS REPORT REQUIREMENTS.
6. ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
7. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN AREAS TO BE EXCAVATED BEFORE BEGINNING EXCAVATION. EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING. DAMAGE CAUSED AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
8. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN TEMPORARY EXCAVATIONS.
9. ALL PLANTERS IN CLOSE PROXIMITY TO THE STRUCTURE SHALL HAVE ADEQUATE DRAINAGE OF SURFACE WATER TO PREVENT SATURATION OF SOIL UNDER FOUNDATION.
10. 2019 C.B.C. SEISMIC SITE CLASS A, B, C, OR D (SECTION 1613A.2.3).
11. A GEOTECHNICAL & GEO–HAZARD REPORT IS REQUIRED FOR BUILDINGS LARGER THAN 4000 SQUARE FEET.

## GENERAL NOTES:

1. THE PROJECT SPECIFICATIONS SHALL BE PART OF THE CONTRACT DOCUMENTS.
2. THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
3. THE CONTRACTOR SHALL REVIEW EXISTING CONDITIONS ON THE SITE DURING THE BIDDING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO PROCEEDING.
4. ALL PHASES OF WORK ARE TO CONFORM TO THE MINIMUM STANDARDS OF THE CALIFORNIA BUILDING CODE (2019 EDITION C.B.C.), RELATED CALIFORNIA BUILDING CODE STANDARDS, AND ANY A.S.T.M. SPECIFICATIONS ON WHICH THESE STANDARDS ARE BASED. WHERE CONFLICT BETWEEN BUILDING CODES AND SPECIFICATIONS OCCURS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
5. ALL A.S.T.M. DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATION, AS OF THE DATE OF THESE DRAWINGS.
6. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
7. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
8. THE STRUCTURAL DRAWINGS SHOW ONLY THE BASIC STRUCTURAL REQUIREMENTS. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON–STRUCTURAL ITEMS, SUCH AS:
   A. SIZE AND LOCATION OF ALL OPENINGS.
   B. SIZE AND LOCATION OF ALL NON–BEARING WALLS.
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, WALKS, ROOF AND FLOOR DRAINS, SLOPES, DEPRESSED SLAB AREAS, ETC.
   D. FLOOR, ROOF AND WALL FINISHES.
   E. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
9. THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
10. NEITHER THE OWNER NOR THE ARCHITECT/STRUCTURAL ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE SAFETY ITEMS.
11. SATISFACTORY EXECUTION OF CONSTRUCTION IS DEPENDENT UPON CONFORMANCE WITH THE INTENT OF THESE DRAWINGS. OWNER OR CONTRACTOR SHALL RETAIN A CALIFORNIA LICENSED STRUCTURAL ENGINEER DURING CONSTRUCTION TO OBSERVE THE CONSTRUCTION AND FILE A REPORT (DSA 6AE) STATING THE "THE CONSTRUCTION HAS, IN EVERY MATERIAL RESPECT, BEEN PERFORMED IN COMPLIANCE WITH THE DSA APPROVED DOCUMENTS".
12. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD FOR EACH PARTICULAR LEVEL. WHEN WEIGHT OF MATERIALS OR EQUIPMENT MAY EXCEED DESIGN LOAD, STRUCTURAL SYSTEMS SHALL BE SHORED.
13. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK. THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.

## REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE C.B.C., AND THE "MANUAL OF STANDARD PRACTICE" BY THE C.R.S.I.
2. REINFORCING BARS SHALL CONFORM TO A.S.T.M. A–615, DEFORMED GRADE 60. REINFORCING BARS THAT ARE TO BE WELDED SHALL CONFORM TO A.S.T.M. A–706, DEFORMED GRADE 60.
3. WELDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH A.S.T.M. A–706 WITH LOW HYDROGEN ELECTRODES AND SHALL CONFORM TO THE STRUCTURAL WELDING CODE REINFORCING STEEL BY A.N.S.I. / A.W.S. D1.4. MINIMUM TENSILE STRENGTH OF WELD METAL SHALL BE 90 K.S.I. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.
4. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
5. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE LAPPED WITH THE SAME GRADE, SIZE, SPACING AND NUMBER AS THE VERTICAL REINFORCEMENT, RESPECTIVELY.
6. REINFORCING SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS.
7. SLAB ON GRADE REINFORCING SHALL BE POSITIONED AT MID–DEPTH, UNLESS NOTED OTHERWISE.
8. PROVIDE #3 SPACER TIES AT 2'–6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING BARS IN PLACE, U.N.O.
9. PIPING AND CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED. A.C.I. #318–14

## DESIGN BASIS:

CODE: 2019 C.B.C. (CALIFORNIA BUILDING CODE CCR, TITLE 24, PART 2)

GRAVITY LOADS:

1. ROOF LIVE LOAD 20 P.S.F. (REDUCIBLE)
   ROOF DEAD LOAD 22 P.S.F. (MAX.)
   SOLAR LOAD 2 P.S.F. LOADING FOR FUTURE SOLAR PANELS IS INCLUDED IN THE DEAD LOAD. A SEPERATE DSA APPLICATION IS REQUIRED FOR SOLAR PANELS.
2. SNOW LOAD Pg 0 PSF

LATERAL LOADS:

1. SEISMIC DESIGN
   SITE CLASS D
   Ss = 2.14 (WHERE Fa.= 1.0 AS JUSTIFIED BY GEOTECHNICAL REPORT)
   Ss = 1.79 (WHERE Fa.= 1.2 DEFAULT)
   S1 = 1.0
   Fa = 1.2 (DEFAULT UNLESS SUBSTENTIATED BY GEOTECHNICAL REPORT
   I = 1.0
   R =6.5 LIGHT FRAMED BEARING WALLS W/ WOOD STRUCTURAL PANELS FOR SHEAR RESISTANCE BOTH DIRECTIONS
   Ω = 1.0
   $S_{DS}$= 1.43 ARCH. & MECH'L COMPONENTS

   RISK CATEGORY = II
   SDs = 1.0 MAX. PER ASCE 7–16
   SD1 = 0.66

   SEISMIC DESIGN CATEGORY = E
   ANALYSIS METHOD = EQUIVALENT LATERAL FORCE ANALYSIS.

   SEISMIC BASE SHEAR:
   Cs = 0.154
   BUILDING DRIFT = 2.09"

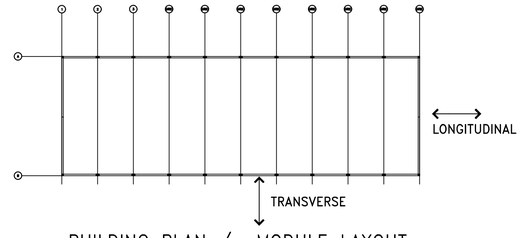
2. WIND DESIGN
   ANALISIS METHOD ± DIRECTIONAL PROCEEDURE
   Vault = 95 M.P.H.
   EXPOSURE "C"
   Kzt = 1.0
   Gcpi = .18
   Ke = 1.0
   RISK CATEGORY = II

FLOOD HAZARD: DESIGN DOES NOT ACCOUNT FOR FLOOD HAZARD.

BUILDING DRIFT

| ROOF TYPE | DIRECTION | DRIFT |
|---|---|---|
| BARREL | TRANSVERSE | 2" |
| | LONGITUDINAL | 1 5/8" |
| BARREL W/ OVERHANG | TRANSVERSE | 2" |
| | LONGITUDINAL | 1 5/8" |
| MONOSLOPE | TRANSVERSE | 2" |
| | LONGITUDINAL | 1 5/8" |
| MONOSLOPE W/ OVERHANG | TRANSVERSE | 2" |
| | LONGITUDINAL | 1 5/8" |
| DUAL PITCH | TRANSVERSE | 2" |
| | LONGITUDINAL | 1 5/8" |
| DUAL PITCH W/ OVERHANG | TRANSVERSE | 2" |
| | LONGITUDINAL | 1 5/8" |
| PARAPET | TRANSVERSE | 2" |
| | LONGITUDINAL | 1 5/8" |

BUILDING SEPARATION = 6"




BUILDING PLAN / MODULE LAYOUT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119613 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022

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PHONE (858) 679-1974
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BRIAN J. OMEL
No. S 4[illegible]
EXP. 12/31/22
STRUCTURAL
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118526 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CC ☑
DATE: 12/14/2021

DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

RELOCATABLE SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

DRAWING TITLE: TYPICAL NOTES

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
S1.1

## CONT COLD FORMED STRUCTURAL STEEL:

19. SPLICES IN STUDS SHALL NOT BE PERMITTED.

20. STRUCTURAL STEEL AND CFS MEMBERS SHALL BE PROTECTED BY RUST INHIBITIVE COATING PER 2019 CBC 2203 A.2 & A.I.S.I. S240, TABLE A4-1.

21. PROVIDE SHOP DRAWINGS INDICATING MEMBER GAGES, SHAPES, SIZES, SPACING, LOCATIONS AND CONNECTIONS.

| GAUGE EQUIVALENTS | |
|---|---|
| GAUGE | MILS (MIN. THCK) |
| 10 | 118 |
| 11 | 105 |
| 12 | 97 |
| 14 | 68 |
| 16 | 54 |
| 18 | 43 |
| 20 | 33 |

## LUMBER:

1. STRUCTURAL LUMBER SHALL BE STRESS-MARKED DOUGLAS FIR-LARCH. S4S IN ACCORDANCE WITH GRADING AND DRESSING RULE NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (LATEST EDITION).

2. LUMBER SHALL NOT BE BORE OR NOTCHED, EXCEPT WHERE DETAILED.

3. SILLS AND PLATES IN CONTACT WITH CONCRETE OR MASONRY WITHIN 48 INCH OF GROUND SHALL BE PRESSURE TREATED DOUGLAS FIR-LARCH.

4. PROVIDE 2x FIRE BLOCKING AT MID-HEIGHT OF STUD PARTITIONS OVER 8'-6" IN HEIGHT.

5. ROOF SHEATHING INSPECTIONS SHALL BE MADE PRIOR TO COVERING.

6. METAL CONNECTORS SHALL BE "SIMPSON STRONG-TIE", EXCEPT AS SHOWN. FILL ALL HOLES OF THE PREFAB. CONNECTORS.

7. LUMBER MINIMUM GRADE: # 2 OR BETTER

8. ALL BOLTS AND LAG SCREWS SHALL HAVE STANDARD CUT WASHERS BETWEEN THE WOOD AND THE NUTS. SEE DRAWINGS FOR LOCATIONS OF PLATE WASHERS AS REQUIRED.

   BOLTS..... A.S.T.M. A307
   LAG SCREWS..... A.S.M.E. B-18.2.1
   NUTS..... A.S.T.M.-563
   WASHERS..... A.S.T.M. F-844

9. LEAD HOLES FOR LAG SCREWS SHALL HAVE THE SAME DIAMETER OF THE SHANK FOR THE UNTHREADED PORTION OF THE SHANK, AND 70% OF THE SHANK DIAMETER FOR THE THREADED PORTION. ALL LAG SCREWS SHALL BE INSERTED BY TURNING WITH A WRENCH AND NOT BY DRIVING WITH A HAMMER.

10. TOP PLATES OF ALL WOOD STUD WALLS SHALL BE TWO PIECE SAME SIZE AS STUDS EXCEPT AS NOTED OTHERWISE, LAP 4'-0" MINIMUM WITH NO LESS THAN 12- 16d AND NO MORE THAN SIX INCHES BETWEEN NAILS AT EACH LAP.

11. STRUCTURAL PLYWOOD FOR ROOF SHALL BE A.P.A. RATED AS INDICATED ON THE DRAWINGS IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS 1-09. PLYWOOD SPECIES TO BE GROUP 1 PSI-09.

12. FASTENERS USED FOR ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, MECHANICALLY DEPOSIT ZINK-COATED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPER. THE COATING WEIGHTS FOR HOT-DIPPED ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A 153. THE COATING WEIGHTS FOR MECHANICALLY DEPOSIT ZINC COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM B 695, CLASS 55 MINIMUM.

13. ALL FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED.

14. ALL NAILING SHALL CONFORM TO NAILING SCHEDULE, USING COMMON WIRE NAILS. PREDRILL ALL NAILS 20d AND LARGER AND WHERE REQUIRED TO PREVENT SPLITTING.

15. THE MOISTURE CONTENT OF WOOD MEMBERS SHALL NOT EXCEED 19%, DURING INSTALLATION. IT WILL BE THE RESPONSIBILITY OF THE INSPECTOR OF RECORD TO VERIFY THAT THE CONTRACTOR HAS SUPPLIED LUMBER OF THE PROPER MOISTURE CONTENT BEFORE INSTALLATION. THE USE OF A HAND HELD MOISTURE CONTENT METER IS ACCEPTABLE.

16. WOOD FRAMING MEMBERS INCLUDING SHEATHING SHALL BE PROTECTED/TREATED PER 2019 CBC, 2304.12

17. METAL CONNECTORS SHALL BE "SIMPSON STRONG TIE". FILL ALL HOLES OF PRE-FEB CONNECTORS WITH FASTENERS AS SPECIFIED BY MANUFACTURER.

18. STRUT CONNECTIONS MUST BE INSPECTED PRIOR TO COVERING.

## COLD FORMED STRUCTURAL STEEL:

1. ALL LIGHT GAUGE METAL FRAMING SHALL BE THE TYPE, SIZE AND GAUGE AS SHOWN ON THE PLANS AND BE FABRICATED AND ERECTED IN ACCORDANCE WITH 2016 A.I.S.I. S100 AND 2015 ASI S240 SPECIFICATIONS AND 2019 CBC SECTIONS 2210A,2211A, AND 2213A.

2. ALL GALVANIZED STUDS AND JOISTS 12, 14 AND 16 GAUGE SHALL CONFORM TO A.S.T.M. A-1011 GRADE D (Fy = 50 K.S.I.) AND A.S.T.M. A-1011 GRADE A (Fy = 33 K.S.I.) FOR 18 AND 20 GAUGE.

3. ALL GALVANIZED TRACK BRIDGING, END ENCLOSURES AND ACCESSORIES SHALL CONFORM TO A.S.T.M. A-1011 GRADE A (Fy = 33 K.S.I.).

4. STRUCTURAL MEMBERS UTILIZED IN COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION SHALL HAVE A PROTECTIVE COATING AS APECIFIED IN TABLE A4-1

| COATING CLASSIFICATION | COATING DESIGNATOR | MINIMUM COATING REQUIREMENTS | | | |
|---|---|---|---|---|---|
| | | ZINK COATED[A] oz/ft² (g/m²) | ZINK Iron[B] oz/ft² (g/m²) | 55% AL-Zinc[C] oz/ft² (g/m²) | Zinc-5%[D] oz/ft² (g/m²) |
| METALLIC COATED | CP 60 | G60 [Z180] | G60 [Z180] | AZ50 [AZM150] | GF30 [ZGF90] |
| | CP 90 | G90 [Z275] | Not Applicable | AZ50 [AZM150] | GF45 [ZGF135] |
| PAINTED METALLIC | PM | The metallic coated substrate shall meet the requirements of metallic coated. In addition, the paint film shall have a minimum thickness of 0.5 mil per side (primer plus topcoat) with a minimum primer thickness of 0.1 mil per side. | | | |

[A] Zinc-coated steel sheet as described in ASTM A653/A653M.
[B] Zinc-iron alloy-coated steel sheet as described in ASTM A653/A653M.
[C] 55% Alumunum-zinc alloy-coated steel sheet as described in ASTM A792/A792M.
[D] Zinc-5% aluminum alloy-coated steel sheet as descrbed in ASTM A875/875.
[E] In accordance with the requirements of ASTM A1003/A1003M.

5. CARBON SHEET STEEL MUST MEET THE MINIMUM REQUIREMENTS OF A.S.T.M. A1011 GRADE 50 K.S.I. FOR 12, 14, AND 16 GAUGE. AND GRADE 33 K.S.I. FOR 18 GAUGE AND LIGHTER MEMBERS. CARBON SHEET STEEL PRODUCTS MUST BE THOROUGHLY COATED WITH A RUST INHIBITIVE PAINT.

6. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE 2016 AMERICAN IRON AND STEEL INSTITUTE (A.I.S.I. S100) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".

7. METAL STUDS AND/OR JOIST:

   A. FOR METAL STUD WALLS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE STANDARD PUNCHED STEEL MEMBERS OF THE GAUGES SHOWN ON THE DRAWINGS.

   B. USE ONLY ONE TYPE THROUGHOUT THE WORK, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR SPECIFICALLY APPROVED IN ADVANCE BY THE ARCHITECT/ENGINEER.

8. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED.

9. FASTENINGS OF COMPONENTS SHALL BE WITH ASTM C1513 SELF-DRILLING SCREWS OR WELDING U.N.O. SCREWS OR WELDS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT.

10. ALL LIGHT GAUGE STEEL SECTIONS SHALL COMPLY W/SSMA SECTION PROPERTIES AND DESIGNATIONS, ICC ESR 3064P. ALTERNATE METAL STUDS MUST BE OF EQUAL OR GREATER SECTIONS PROPERTIES WITH MIN. FLANGE WIDTHS AND DEPTHS AS REQUIRED BY CBC, AISI 400-15 AND SHALL BE APPROVED BY THE ENGINEER AND DSA.

11. STUDS SHALL BE INSTALLED WITH THEIR BEARING ENDS POSITIONED FLUSH AGAINST THE INSIDE TRACK WEB.

12. FULL-HEIGHT DOUBLE STUDS SHALL BE PROVIDED AT THE ENDS OF PARTITIONS, AT ALL WALL OPENINGS, AND AT OTHER LOCATIONS SHOWN ON THE PLANS.

13. BRIDGING SHALL BE COLD FORMED CHANNEL, MINIMUM 1-1/2" DEEP WITH 9/16" FLANGE SPACED AT 4'-0" ON CENTER MAXIMUM VERTICALLY. DOUBLE UP STUDS AT ALL DOOR JAMBS, WALL ENDS AND WALL CORNERS.

14. SHEATHING SHALL BE ATTACHED TO BOTH FACES OF METAL WALL STUDS THROUGHOUT THEIR LENGTH, U.N.O.

15. TRACK AT TOP AND BOTTOM OF STUD WALLS SHALL AT A MINIMUM MATCH THE STUD GAUGE, U.N.O.

16. ALL SHEET METAL SCREWS SHALL COMPLY W/ICC ESR-1976

17. ALL WELDING OR MATERIAL LESS THAN 0.18 INCHES IN THICKNESS SHALL BE MADE IN ACCORDANCE WITH THE A.W.S. D1.3 WELDERS AND WELDING PROCEDURES AND SHALL BE QUALIFIED AS SPECIFIED IN A.W.S. D1.3.

18. TOUCH UP COLD GALVANIZING USING ZRC CHEMICAL PRODUCTS CO., ZRC COLD GALVANIZING COMPOUND OR EQUAL.

## WELDING:

1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE D1.1.-15.

2. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS.

3. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC PROCESS USING APPROVED ELECTRODES PER A.W.S. SPECIFICATIONS E70XX (LOW HYDROGEN ELECTRODES).

4. ALL WELDS SHALL HAVE A WELD CONTROLLED SEQUENCE AND TECHNIQUE IN ORDER TO MINIMIZE SHRINKAGE, STRESSES AND DISTORTION.

5. ALL ELECTRODES FILLER MATERIAL SHALL BE A MINIMUM OF E70XX.

6. WELDING OF REINFORCING BARS TO BE IN ACCORDANCE WITH A.W.S. D1.4. REINFORCING STEEL TO BE WELDED SHALL HAVE A CARBON EQUIVALENT (CE) OF 0.75 SPECIAL INSPECTION IS REQUIRED.

7. WELDING OF SHEET METAL SHALL BE IN ACCORDANCE WITH A.W.S. D1.3.

8. SPECIAL INSPECTION IS REQUIRED FOR ALL WELDING.

9. ALL SHOP AND FIELD WELDING OF MOMENT CONNECTIONS OR MOMENT RESISTING FRAMES, AND ALL COLUMN SPLICE WELDS, SHALL BE TESTED AS PER C.B.C.

## STEEL:

1. FABRICATION AND ERECTION TO CONFORM TO A.I.S.C. 360-16 "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCEPT AS OTHERWISE SHOWN OR SPECIFIED.

2. QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. ALL WELDING TO CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE A.W.S. D1.1.

3. MATERIALS:

| | |
|---|---|
| ROLLED STRUCTURAL STEEL SHAPES | A.S.T.M. A-992, GRADE 50 |
| ANGLES, CHANNELS, MISC. STEEL | A.S.T.M. A36 |
| MISCELLANEOUS PLATES | A.S.T.M. A-36 GRADE 36 |
| STRUCTURAL STEEL PIPES | A.S.T.M. A53 TYPE E OR S, GRADE B |
| WELDING ELECTRODES | A.W.S. STRUCTURAL STEEL E70XX, |
| | REINFORCING STEEL E90XX |
| ANCHOR BOLTS | A.S.T.M. A-1554F GRADE 36 |
| TYPICAL STEEL CONNECTION BOLTS | A.S.T.M. A-307 |
| MISCELLANEOUS BOLTS | A.S.T.M. A-307 |
| GALVANIZING | A.S.T.M. A-123 |
| RUST-INHIBITING PRIMER | CC-M10 SHERWIN WILLIAMS |
| STEEL TUBING | A.S.T.M. A-500, GRADE B (Fy = 46 K.S.I.) |

4. PRIMER AND PAINT GALVANIZE AFTER FABRICATION ALL STRUCTURAL STEEL AND CONNECTORS EXPOSED TO SOIL. TOUCH UP DAMAGED PRIMER AND PAINT AFTER ERECTION IS COMPLETE.

5. CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS.

6. BURNING OF HOLES IS NOT ALLOWED.

7. INSPECTION OF WELDING SHALL CONFORM TO C.B.C. REQUIREMENTS (CHAPTER 17A).

8. THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

9. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE.

10. ALL STRUCTURAL STEEL SURFACES TO RECEIVE SPRAY-APPLIED FIREPROOFING, OR TO BE ENCASED IN CONCRETE OR MASONRY, SHALL BE LEFT UNPAINTED.

11. STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC.

12. OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED.

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REGISTERED PROFESSIONAL ENGINEER
RYAN J. ONEIL
No. S 4
EXP. 12/31/2
STRUCTURAL
STATE OF CALIFORNIA

DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
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RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
TYPICAL NOTES

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
**S1.2**

## STRUCTURAL OBSERVATION:

1. PER C.B.C. CHAPTER 17A, 1704A.6 THE OWNER SHALL EMPLOY A LICENSED ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, OR HIS DESIGNATED ENGINEER OR ARCHITECT TO MAKE SITE VISITS TO OBSERVE GENERAL COMPLIANCE WITH THE APPROVED STRUCTURAL PLANS, SPECIFICATIONS AND CHANGE ORDERS. THE ENGINEER OR ARCHITECT SHALL SUBMIT A STATEMENT IN WRITING TO THE BUILDING OFFICIAL STATING THAT THE SITE VISIT HAS BEEN MADE AND THAT ANY DEFICIENCIES NOTED HAVE BEEN CORRECTED.

2. IN ACCORDANCE WITH SECT. 4-333 (a) OF TITLE 24, PART 1, STRUCTURAL OBSERVATION SHALL INCLUDE AND OCCUR AT THE FOLLOWING STAGES:
   A. OBSERVATION AT THE SITE PRIOR TO PLACING CONCRETE.
   B. OBSERVATION OF THE BUILDING DURING FABRICATION AFTER THE MAJORITY OF STRUCTURAL ITEMS ARE IN PLACE.
   C. OBSERVATION OF THE COMPLETED STRUCTURE PRIOR TO BEING COVERED FINISHES.

3. AT COMPLETITION OF IN-PLANT MANUFACTURING THE INDIVIDUAL ACCEPTING RESPONSABILITY FOR OBSERVATION OF IN-PLANT MANUFACTURING SHALL SING THE VERIFIED REPORT, DSA 152-IPI ( IN-PLANT INSPECTOR VERIFIED REPORT ).

4. OBSERVATION OF THE ON SITE CONSTRUCTION INCLUDES THE SCOPE OF WORK INDICATED ON THE DSA APPROVED MODULAR BUILDING PLANS AND SPECS.

5. INTERIM AND FINAL VERIFIED REPORTS ARE REQUIRED DURING, AND AT THE COMPLETITION OF, ON SITE CONSTRUCTION AND INSTALLATION USING FORM DSA 6-AE ( ARCHITEC/ENGINEER VERIFIED REPORT ).

6. STRUCTURAL TESTING & SPECIAL INSPECTIONS: SEE APROVED DSA-103 FORM FOR STRUCTURAL TESTING & INSPECTIONS.

## ABBREVIATIONS:

| | |
|---|---|
| & | AND |
| @ | AT |
| ℄ | CENTER LINE |
| ℞ | PLATE, PROPERTY LINE |
| A.B. | ANCHOR BOLT |
| ADJ | ADJACENT |
| A.F.F. | ABOVE FINISH FLOOR |
| ARCH'L | ARCHITECTURAL |
| BD | BOARD |
| BLD'G | BUILDING |
| BLK | BLOCK |
| BLK'G | BLOCKING |
| BLW | BELOW |
| BM | BEAM |
| B.N. | BOUNDARY NAIL/SCREW |
| BOT. | BOTTOM |
| BRG | BEARING |
| B.S. | BOTH SIDE |
| BTWN | BETWEEN |
| C.B. | CARRIAGE BOLT |
| C.F. | CUBIC FOOT |
| CHAM | CHAMFER |
| C.I. | CAST-IRON |
| C.I.P. | CAST-IN-PLACE |
| C.J. | CONTROL JOINT |
| CLG | CEILING |
| CLK | CAULK |
| CLK'G | CAULKING |
| CLR. | CLEAR |
| C.M.U. | CONCRETE MASONRY UNIT |
| CNTR | CENTER |
| COL | COLUMN |
| CONC | CONCRETE |
| CONN | CONNECTION |
| CONT | CONTINUOUS |
| CNTRSNK | COUNTERSINK |
| d | PENNY |
| DBL | DOUBLE |
| DEP | DEPRESSED |
| DET | DETAIL |
| D.F. | DOUGLAS FIR |
| D.F.L. | DOUGLAS FIR/LARCH |
| DIA | DIAMETER |
| DIAG | DIAGONAL |
| DIAM. | DIMENSION |
| D.L. | DEAD LOAD |
| DN | DOWN |
| DIV | DIVISION |
| DR | DOOR |
| DWG | DRAWING |
| DWL | DOWEL |
| EA | EACH |
| E.F. | EACH FACE |
| EL. | ELEVATION |
| ELEV. | ELEVATION / ELEVATOR |
| EMBED | EMBEDMENT |
| E.N. | EDGE NAIL/SCREW |
| EQ. | EQUAL |
| EQUIP | EQUIPMENT |
| E.S. | EACH SIDE |
| E.W. | EACH WAY |
| EXIST'G | EXISTING |
| EXP | EXPANSION |
| EXT | EXTERIOR |
| F.D. | FLOOR DRAIN |
| FDN | FOUNDATION |
| F.F. | FINISH FLOOR |
| FIN. | FINISH |
| FLR. | FLOOR |
| F.N. | FIELD NAIL |
| F.O. | FACE OF |
| FRM'G | FRAMING |
| F.S. | FAR SIDE |
| FT | FEET / FOOT |
| FTG | FOOTING |
| GA | GAUGE |
| GALV | GALVANIZED |
| G.I. | GALVANIZED IRON |
| GLB | GLU-LAMINATED BEAM |
| GRD | GRADE |
| GYP | GYPSUM |
| H.D. | HOLDOWN |
| HDR | HEADER |
| HGR | HANGER |
| HORIZ | HORIZONTAL |
| HRD | HARD |
| H.S.B. | HIGH STRENGTH BOLT |
| HT. | HEIGHT |
| HVAC | HEATING, VENTILATION, & AIR CONDITIONING |
| IN. | INCH |
| INSP. | INSPECTION / INSPECTOR |
| INT. | INTERIOR |
| JST | JOIST |
| JT | JOINT |
| KIPS | KILOPOUNDS (1,000 POUNDS) |
| K.O. | KNOCK OUT |
| LB | POUND |
| L.B. | LAG BOLT |
| L.F. | LINEAR FOOT |
| LG | LONG |
| L.L. | LIVE LOAD |
| L.L.H. | LONG LEG HORIZONTAL |
| L.L.V. | LONG LEG VERTICAL |
| L.S. | LAG SCREW |
| LT. | LIGHT |
| MAS | MASONRY |
| MAT. | MATERIAL |
| MAX. | MAXIMUM |
| M.B. | MACHINE BOLT |
| MECH'L | MECHANICAL |
| MEZZ. | MEZZANINE |
| MIN. | MINIMUM |
| M.H. | MANHOLE |
| MANUF. | MANUFACTURER |
| MTL. | METAL |
| N.S. | NEAR SIDE |
| N.I.C. | NOT IN CONTRACT |
| NOM. | NOMINAL |
| N.T.S. | NOT TO SCALE |
| O.C. | ON CENTER |
| O.D. | OUTSIDE DIAMETER |
| O.H. | OPPOSITE HAND |
| OPN'G | OPENING |
| OPP | OPPOSIDE |
| O.W.J. | OPEN WEB JOIST |
| P.C. | PRECAST |
| PERP. | PERPENDICULAR |
| PLYWD | PLYWOOD |
| PNL | PANEL |
| PREFAB | PREFABRICATED |
| P.S.F. | POUNDS PER SQUARE FOOT |
| P.S.I. | POUNDS PER SQUARE INCHES |
| PT | POINT |
| P.T. | PRESSURE TREATED |
| P.V.C. | POLYVINYL CHLORIDE |
| RAD | RADIUS |
| R.D. | ROOF DRAIN |
| REF. | REFERENCE |
| REINF. | REINFORCED / REINFORCING |
| REQ'D | REQUIRED |
| REV | REVISION |
| RF | ROOF |
| RFTR | RAFTER |
| R.H. | ROOF HATCH |
| RM | ROOM |
| R.O. | ROUGH OPENING |
| R.S. | ROUGH SAWN |
| SCHED. | SCHEDULE |
| SECT. | SECTION |
| S.F. | SQUARE FOOT |
| SHT | SHEET |
| SHT'G | SHEETING |
| SIM. | SIMILAR |
| S.M.S. | SHEET METAL SCREW |
| SPEC. | SPECIFICATION |
| SQ. | SQUARE |
| S.S. | STAINLESS STEEL |
| STAGG. | STAGGERED |
| STD | STANDARD |
| STIFF. | STIFFENER |
| STL. | STEEL |
| STRUCT'L | STRUCTURAL |
| STS | SELF TAPPING SCREW |
| SYM | SYMMETRICAL |
| SYS | SYSTEM |
| T & B | TOP AND BOTTOM |
| T & G | TONGUE AND GROOVE |
| TEMP | TEMPORARY |
| THK | THINK |
| THKN'D | THICKENED |
| THRU | THROUGH |
| T.L. | TOTAL LOAD |
| T.O. | TOP OF |
| T.S.G. | TAPERED STEEL GIRDER |
| TYP. | TYPICAL |
| U.N.O. | UNLESS NOTED OTHERWISE |
| U.T. | ULTRASONIC TESTING |
| VERT. | VERTICAL |
| W/ | WITH |
| W/O | WITHOUT |
| WD | WOOD |
| WIN | WINDOW |
| W.P. | WATERPROOF / WORK POINT |
| W.P.J. | WEAKENED PLANE JOINT |
| WT. | WEIGHT |
| W.W.F. | WELDED WIRE FABRIC |
| W.W.M. | WELDED WIRE MESH |

## MINIMUM NAILING SCHEDULE BASE ON CBC TBL 2304.10.1

| CONNECTION | NAILING[1] |
|---|---|
| SOLE PLATE to joist or blocking, typical face nail<br>SOLE PLATE to joist or blocking, at braced wall panels | 16d at 16" o.c.<br>16d at 16" o.c. |
| TOP PLATE to stud, end nail | 2-16d |
| STUD to sole plate | 4-8d toenail, or 2-16d end nail |
| DOUBLE STUD, face nail | 16d at 24" o.c. |
| DOUBLE TOP PLATES, typical face nail<br>DOUBLE TOP PLATE, lap splice | 16d at 16" o.c.<br>8-16d |
| BLOCKING between joists or rafters to top plate, toenail each end | 3-8d |
| RIM JOIST to top plate, toenail | 8d at 6" o.c. |
| TOP PLATE, lap at intersections, face nail | 2-16d |
| HEADER, two pieces | 16d at 16" o.c. along each edge |
| CEILING JOISTS to plate, toenail | 3-8d |
| BUILT-UP HEADER to stud, toenail | 4-8d |
| CEILING JOISTS, laps over partitions, face nail | 3-16d |
| CEILING JOISTSto parallel rafters, face nail | 3-16d |
| RAFTERS to plate, toenail | 3-8d |
| BUILD-UP CORNER studs (2x members) | 16d at 24" o.c. |
| BUILD-UP GIRDERS and BEAMS (2x members) | 20d at 32" o.c. at top and bottom and staggered on opposite side 2- 20d at ends and at each splice |
| JOIST to band joist, face nail | 3-16d |
| LEDGER STRIP, face nail | 3-16d |

1. COMMON NAILS SHALL BE USED EXCEPT WHERE OTHERWISE STATED.
   6d NAIL - 2" x 0.113"ø
   8d NAIL - 2 1/2" x 0.131"ø
   10d NAIL - 3" x 0.148"ø
   16d NAIL - 3 1/2" x 0.162"ø
   20d NAIL - 4" x 0.192"ø

2. 1" (INCH) = 25.4 mm

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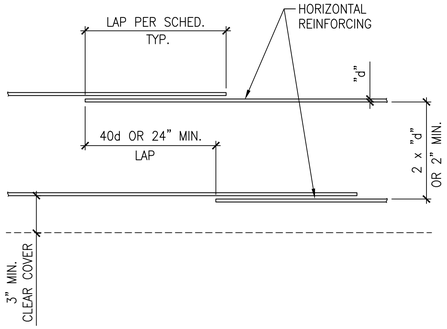
RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
TYPICAL NOTES

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PROJECT NO.
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**S1.3**



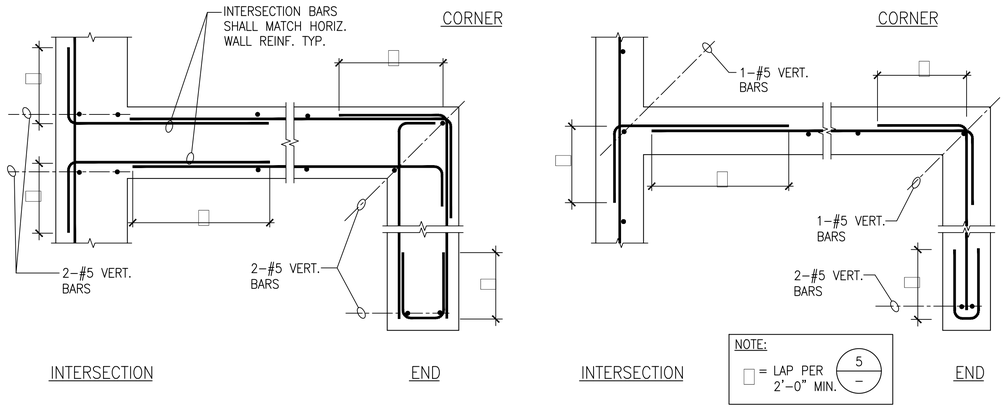

| CONC. F'c P.S.I. | BAR SIZE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | | |
| | TENSION LAP SPLICES, INCHES | | | | | | | | | |
| 3,500 | 24 | 29 | 36 | 43 | 63 | 72 | 81 | 91 | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

HARDROCK CONCRETE
F'y = 60,000 P.S.I.

NOTES:

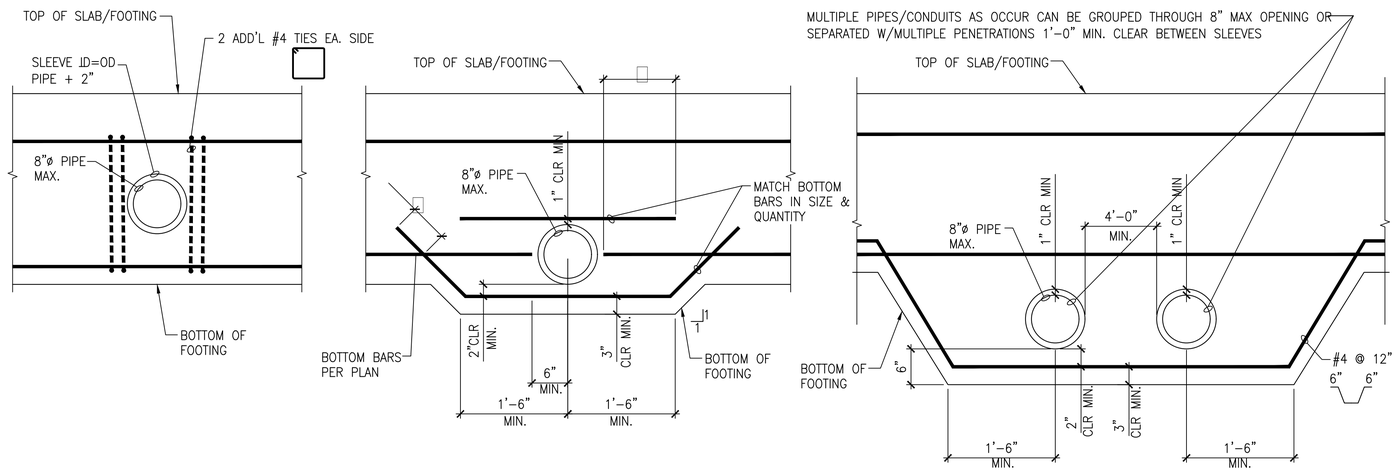
1. SPLICE LENGTH SHALL BE DETERMINED FROM DEVELOPMENT LENGTH OF THE LARGER BAR.
2. FOR BARS WITH 12" OR MORE FRESH CONCRETE BELOW MULTIPLY ABOVE VALUES BY 1.3

## TYPICAL HORIZONTAL REINFORCING – TENSION & COMPRESSION LAP SPLICE (5)

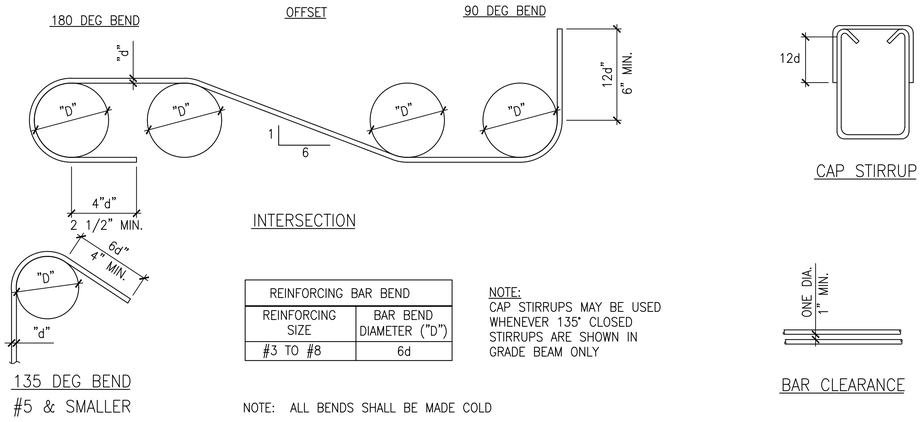



## TYPICAL CONCRETE FOOTING REBAR – PLAN VIEW (1)

NOTES:
1. MAXIMUM NUMBER OF SLEEVES THROUGH ANY 20' SECTION OF FOOTING NOT TO EXCEED 4 IN ANY CONFIGURATION ( 4 INDIVIDUAL SLEEVS, 2-PAIRS, 2 INDIVIDUAL + 1 PANEL).
2. MINIMUM SPACING BETWEEN INDIVIDUAL SLEEVES IS 6'-0"




## TYPICAL PIPE THRU FOOTING (2)

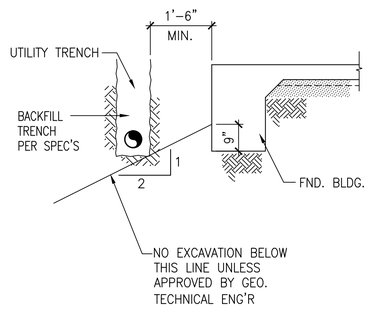



| REINFORCING BAR BEND | |
|---|---|
| REINFORCING SIZE | BAR BEND DIAMETER ("D") |
| #3 TO #8 | 6d |

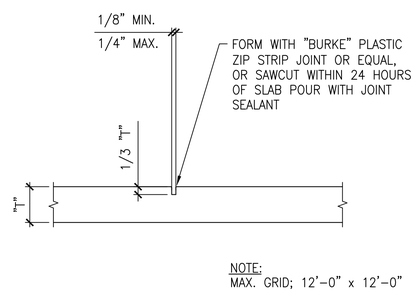
NOTE:
CAP STIRRUPS MAY BE USED WHENEVER 135° CLOSED STIRRUPS ARE SHOWN IN GRADE BEAM ONLY

NOTE: ALL BENDS SHALL BE MADE COLD

## TYPICAL BAR BENT (6)




## UTILITY TRENCH ADJACENT TO CONT. FTG (4)




## TYPICAL WEAKENED PLANE JOINT (3)

WEAKENED PLANE JOINT
(W.P.J.)

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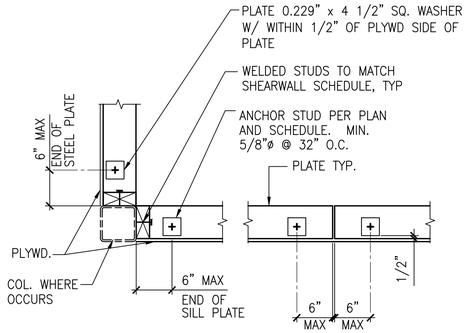
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NOTES:

1. MINIMUM 2 ANCHOR BOLTS PER PLATE.

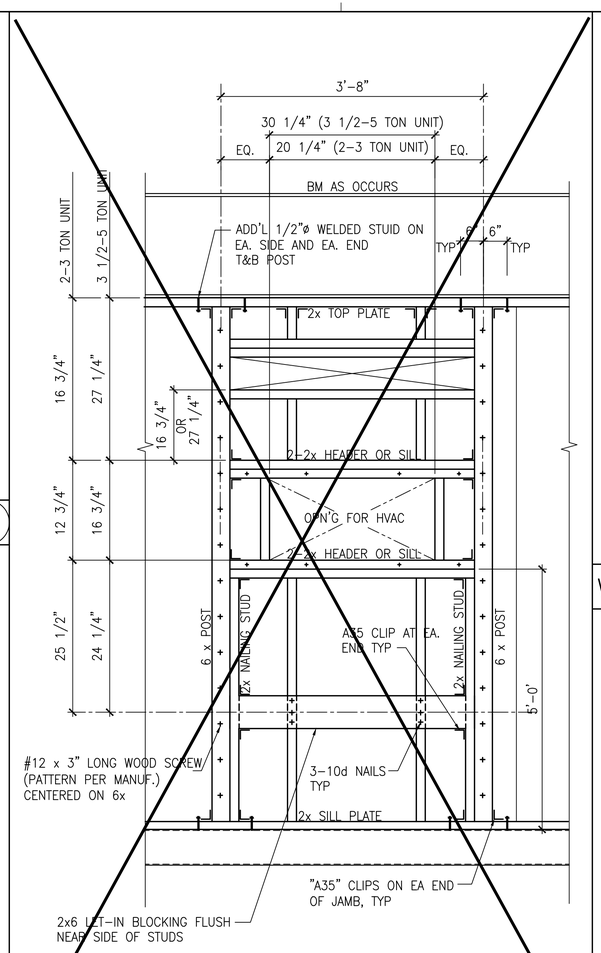
## ANCHOR BOLT LAYOUT–WOOD STUDS (7)



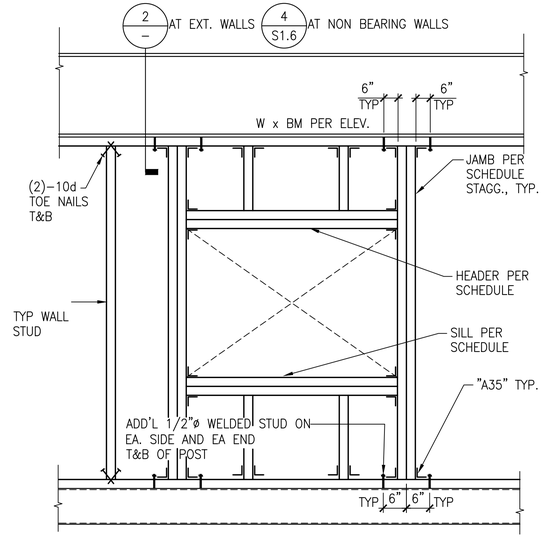

NOTES:
NOTCHING OF STUDS IS NOT PERMITTED

STUD

## HOLES IN WOOD STUD (8)




## WALL HANGING MECHANICAL UNIT (5)

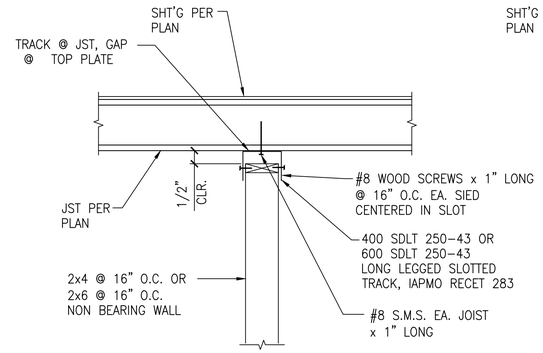



| HEADER SCHEDULE | | |
|---|---|---|
| SPAN | HEADER/SILL | JAMB |
| 0' TO 6'–0" | 2– 2x | 2– 2x |
| 6'–1" TO 8'–0" | 3– 2x | 3– 2x |
| 8'–1" TO 12'–0" | 4– 2x | 4– 2x |
| | | |
| | | |
| | | |

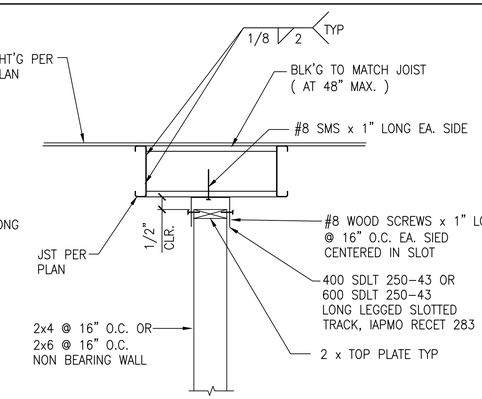
NOTES:

1. THIS SCHEDULE APPLIES, UNLESS NOTED OTHERWISE.
2. NAIL HEADER WITH FACE NAILING 10d @ 12" O.C., TYP.
3. ATTACH JAMB AND HEADERS w/ "A35" EA. SIDE TOP AND BOTT.
4. 2 x 6 @ 16" O.C. FRAMING @ EXTERIOR WALLS U.O.N.
5. 2 x 4 @ 16" O.C. FRAMING (MIN) @ INTERIOR WALLS
6. 1/2" ø WELDED STUDS @ 32" O.C MAX SPACING & 6" O.C FROM ENDS @ EXTERIOR WALLS FOR TOP PLATE TO W BM CONN. AND SILL PLATE TO HSS CONN.

## WALL FRAMING DETAIL (1)

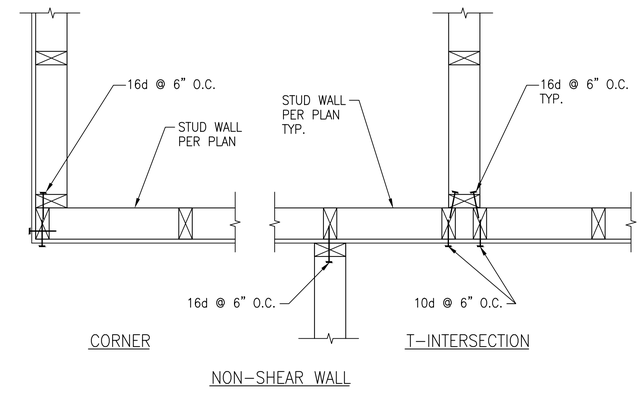



PERPENDICULAR TO JOIST



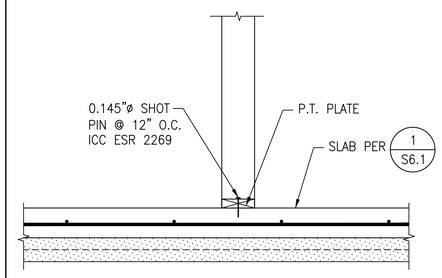

PARALLEL TO JOIST

## NON–BEARING NON–SHEARWALL CONNECTION DETAILS (2)



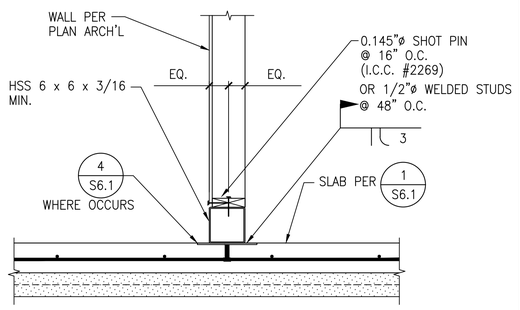

NON–SHEAR WALL

## TYPICAL FRAMING CONNECTIONS (9)



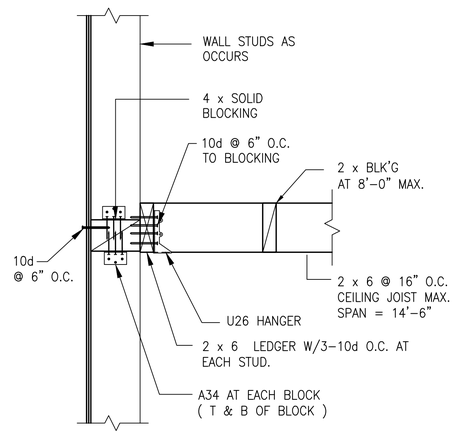

NON–BEARING & NON–SHEARWALL

## WALL SUPPORT AT SLAB (6)




NON–BEARING & NON–SHEARWALL

## WALL SUPPORT AT STEEL TUBE (4)




## CEILING FRAMING (3)

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REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMEL
No. S 44[illegible]
EXP. 12/31/22
STRUCTURAL
STATE OF CALIFORNIA

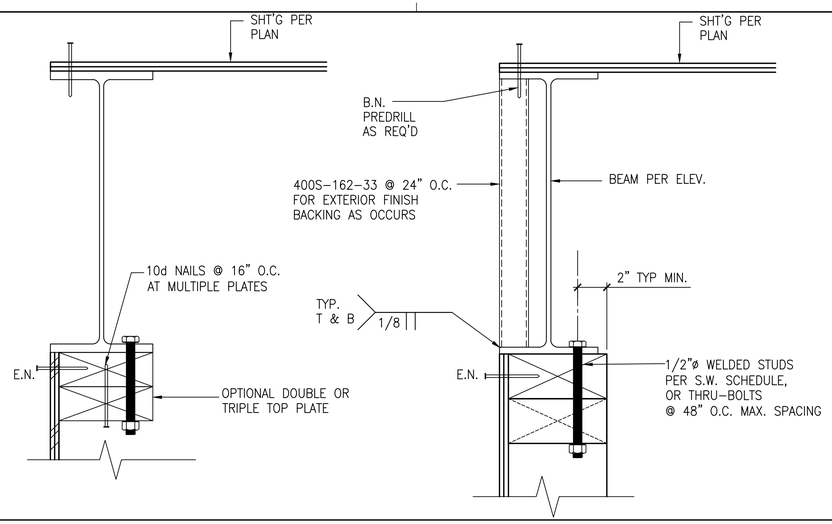
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DSA APPLICATION NUMBER
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A separate project application for construction is re[illegible]uired

RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

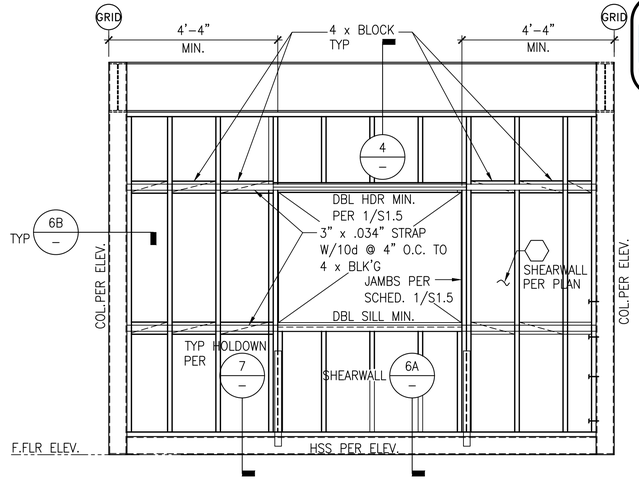
DRAWING TITLE
TYPICAL DETAILS
WOOD FRAMING

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02-119613
PROJECT NO.
06-0142
DRAWING
S1.5




## BEARING WALL/SHEARWALL TO FRAME

4




FOR ADD'L INFO. SEE 1/S1.5, 3/S1.8

## SHEARWALL TYPE 1

1

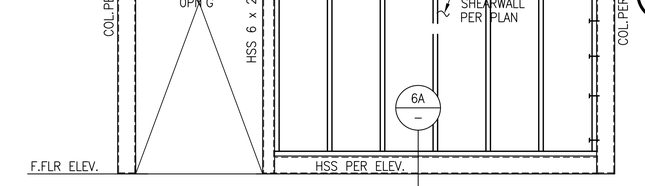
| MARK | STRUCT. SHEATHING | NAILING | PANEL EDGE NAILING | PANEL FIELD NAILING | END STUD | SILL PLATE | TOP PLATE | WALL (LRFD) (LB./FT.) SEISMIC | WALL (LRFD) (LB./FT.) WIND | 1/2"ø ANCHOR BOLT/ WELDED STUD SPACING |
|---|---|---|---|---|---|---|---|---|---|---|
| A | 15/32" STRUCT I | 10d | 6" O.C. | 12" O.C. | 2x | 2x | 2x | 544 | 760 | 24" O.C. |
| B | 15/32" STRUCT I | 10d | 3" O.C. | 12" O.C. | 3x | 3x | 3x | 1064 | 1488 | 18" O.C. |

NOTES:

1. ALL NAILS SHALL BE COMMON WIRE NAILS. 10d COMMON WIRE SHALL BE 0.148"ø x 3"
2. PLYWOOD SHALL CONFORM TO PRODUCT STANDARD PS–1 & PS–2, LATEST EDITION & SHALL BE BONDED w/ STRUCTURAL 1 32/16 SPAN RATING 5 PLY
3. PLYWOOD PANELS MAY BE APPLIED EITHER VERTICALLY OR HORIZONTALLY, BUT ALL EDGES SHALL BE NAILED TO STUDS, PLATES OR BLOCKING.
4. HOLES IN PANELS ARE NOT PERMITTED UNLESS DETAILED BY THE ENGINEER.
5. MINIMUM WIDTH OF PLYWOOD SHALL BE 2'–0" ALTHOUGH 4'–0" x 8'–0" SHEETS SHOULD BE USED WHERE POSSIBLE.
6. STAGGER NAILS AT ALL 3x MEMBERS.
7. MINIMUM 3/8" NAILING EDGE DISTANCE.
8. PROVIDE 0.229" THICK BY 4 1/2" x 4 1/2" SILL PLATE WHASHERS UNDER THE BOLT HEAD.

## SHEARWALL SCHEDULE

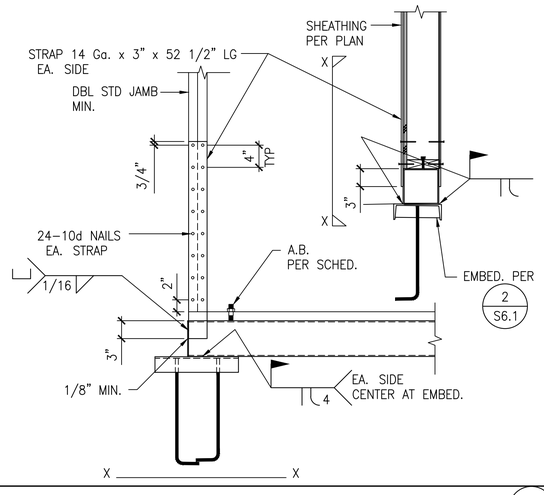
5




FOR ADD'L INFO. SEE 3/S1.8

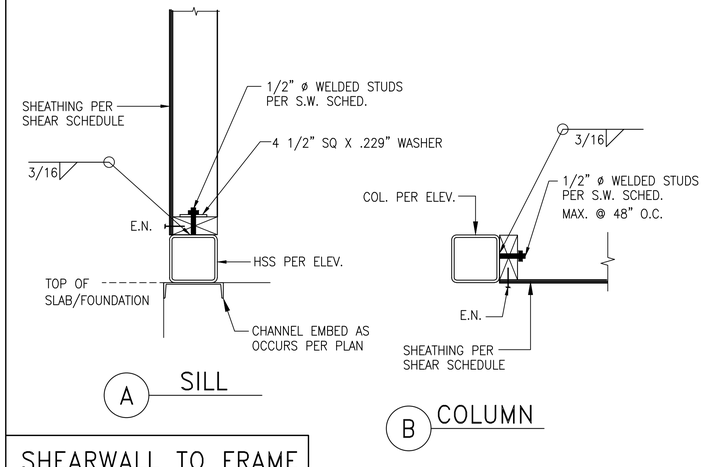
## SHEARWALL TYPE 2

2



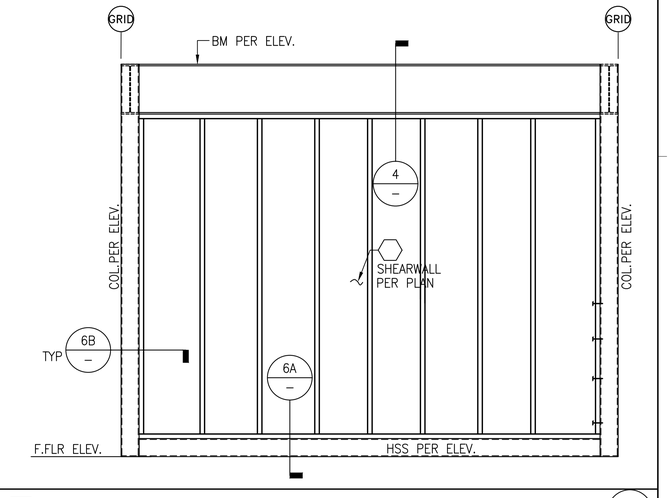

## HOLD DOWN

7




## SHEARWALL TO FRAME (APPLICABLE FOR ALL BEARING WALLS)

6




FOR ADD'L INFO. SEE 3/S1.8

## SHEARWALL TYPE 3

3

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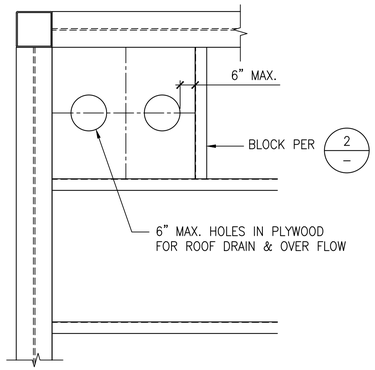
RELOCATABLE
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DRAWING TITLE
TYPICAL DETAILS WOOD FRAMED SHEARWALL

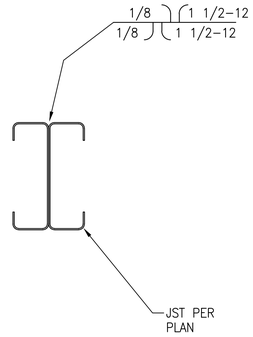
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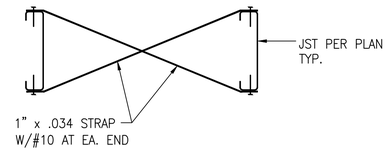
DRAWING
S1.6



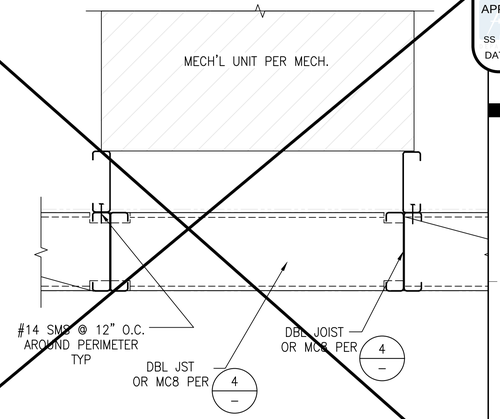

## TYP ROOF DRAIN PENETRATION 8



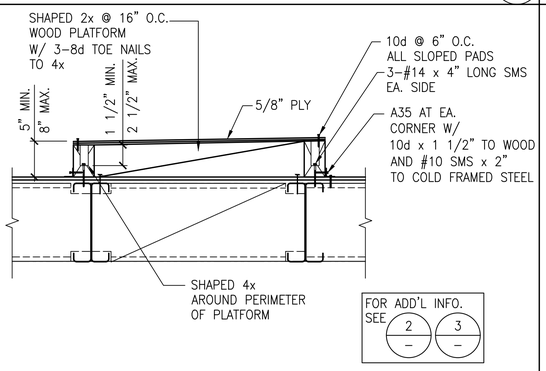

## DOUBLE JOIST CONNECTION 6




## TYP BRIDGING DETAIL 3

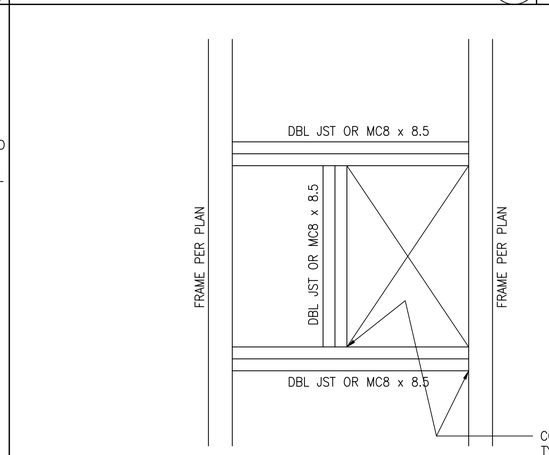



## MECHANICAL UNIT SUPPORT 1

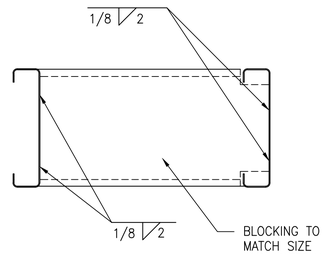



NOTE: MAX. MECH'L UNIT WT. ALLOWABLE = 50 LBS

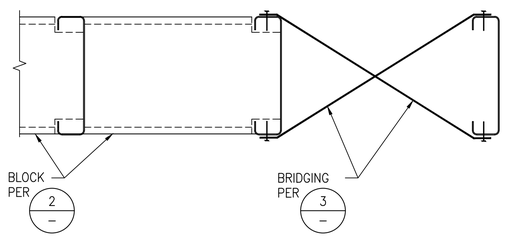
## WOOD PLATFORM 9



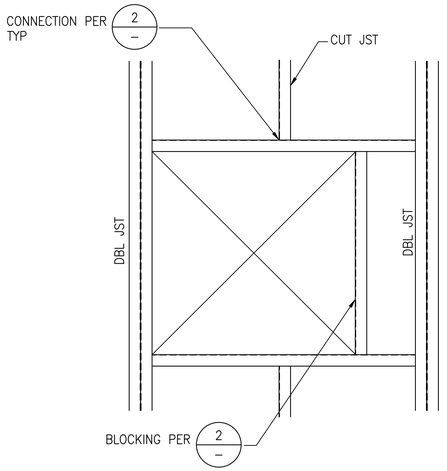

## MECHANICAL UNIT SUPPORT AT ROOF 4



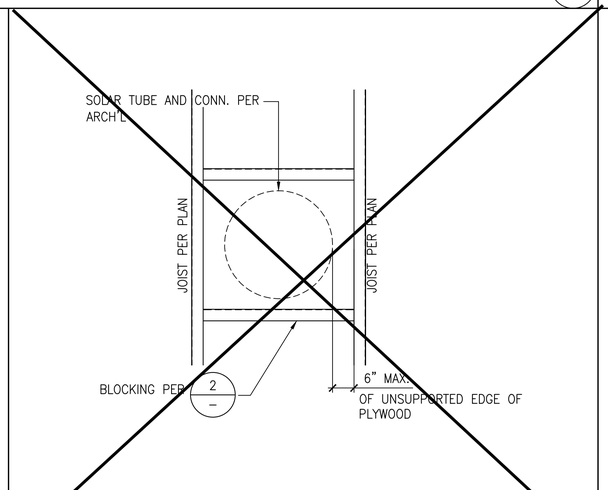

## TYP BLOCKING DETAIL 2




## BLOCKING TO BRIDGING TRANSITION 10




## BLOCKOUT TO ROOF ACCESS 7




## BLOCKING AT SOLAR TUBE 5

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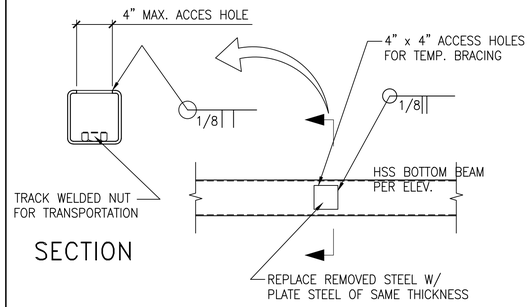
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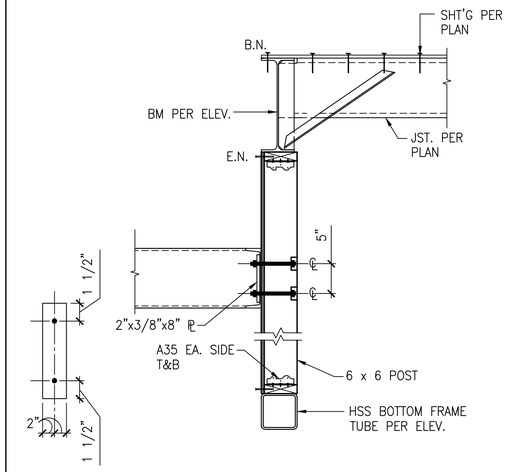
DRAWING TITLE
TYPICAL DETAILS
ROOF FRAMING

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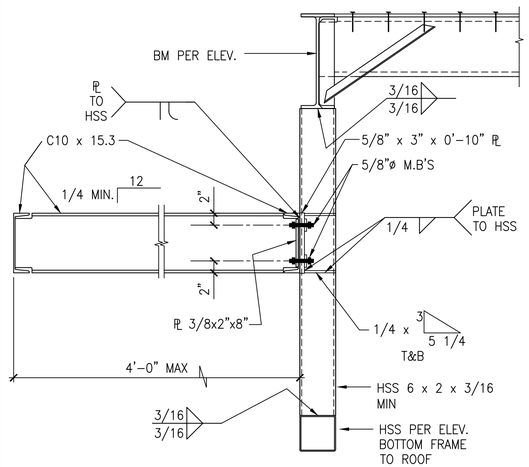
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**S1.7**



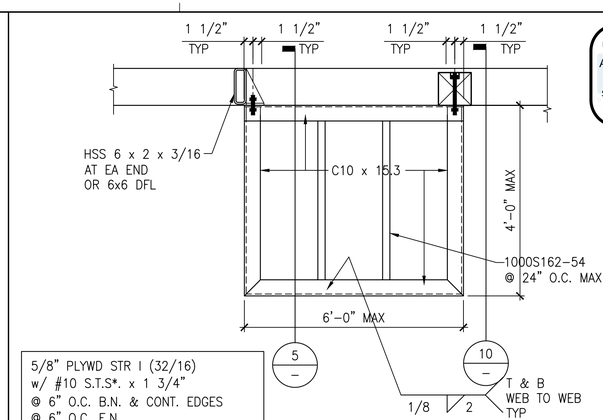

## TEMPORARY ACCESS HOLES (8)



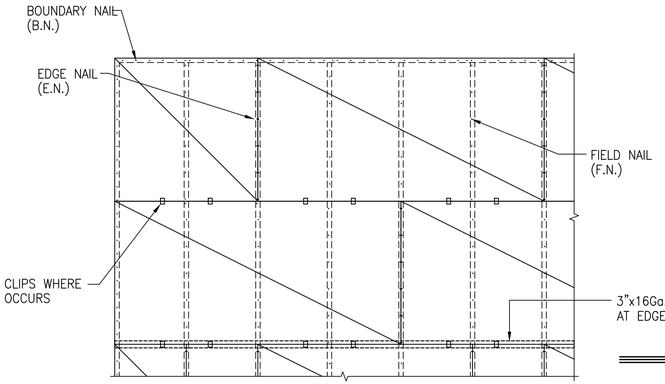

## CANOPY W/ WOOD POST SECTION (10)




## CANOPY W/ STEEL POST SECTION (5)



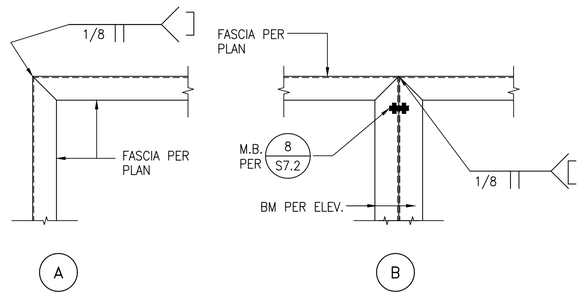

## CANOPY W/ STEEL OR WOOD PLAN (1)



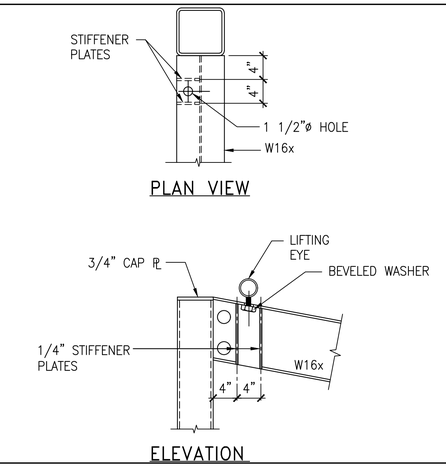

NOTES:

1. PLYWOOD SHEATHING SHALL BE LAID PERPENDICULAR TO FRAMING WITH 4'-0" STAGGERED JOINTS.
2. MINIMUM PLYWOOD SHEET SIZE SHALL BE 2'-0" x 4'-0".
3. MINIMUM 3/8" NAILING EDGE DISTANCE.
4. BOUNDARY NAIL (B.N.) OVER ALL BEAMS, AND AROUND ALL OPENINGS.
5. PLYWOOD NAILING SHALL BE INSPECTED BY THE PROJECT INSPECTOR PRIOR TO COVERING.

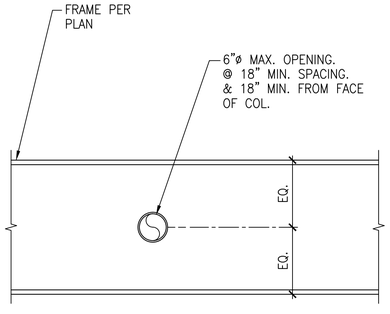
## DIAPHRAGM LAYOUT (6)



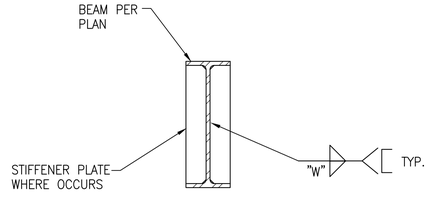

## FASCIA BUTT JOINT (4)




## OPTIONAL LIFTING ASSEMBLY (2)

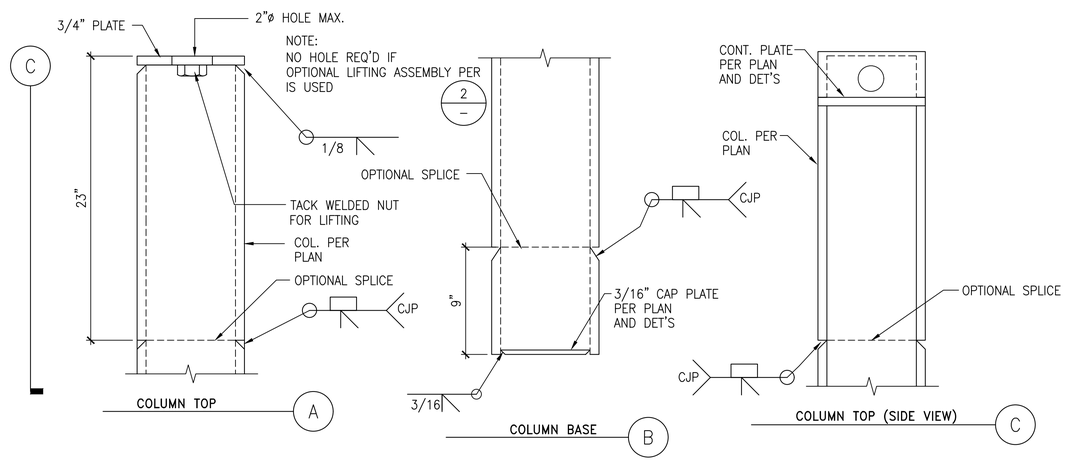



## HOLE THROUGH BEAM (9)




| STIFFENER PLATE SCHEDULE | | |
|---|---|---|
| STIFFENER PLATE THICKNESS | WELD "W" | REMARKS |
| 3/16" | 3/16" | |
| 1/4" | 3/16" | |
| | | |
| | | |
| | | |

## TYP. STIFFENER PLATE (7)




## TYP. COLUMN PREP. (3)

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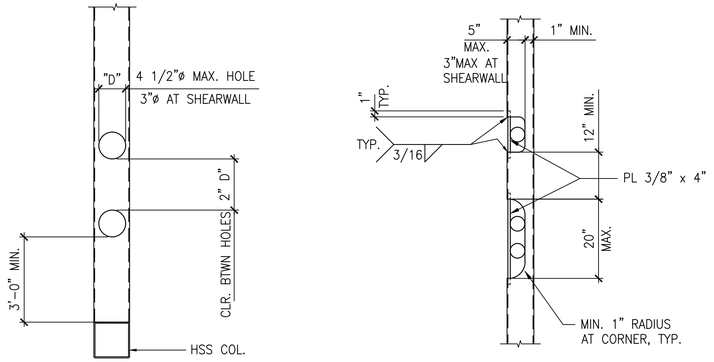
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DRAWING TITLE
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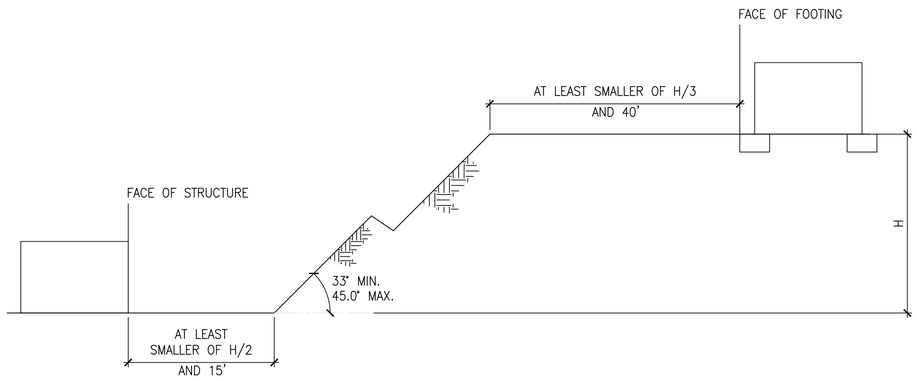




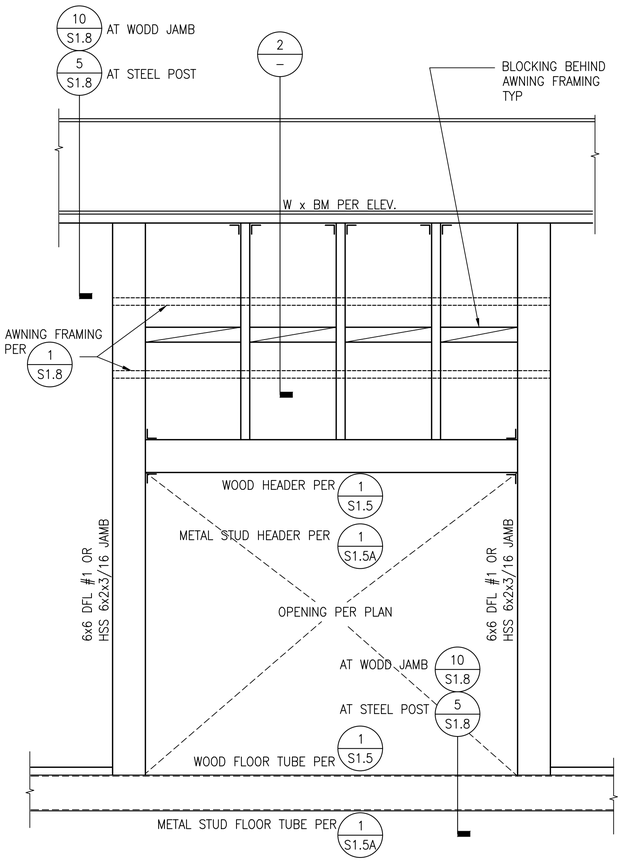
NOTES: 1. BURNING OF HOLES FOR UTILITY CHASE IS ACCEPTABLE, GRIND SMOOTH ALL EDGES TO 1/8" MAX AMPLITUDE.

2. CHASES AT SHEARWALLS REQUIRE SILL ATTACHMENT ON EITHER SIDE OF CUT OUT, AND MAY NOT INTERFERE WITH STUD SPACING NOR EXCEED 12" LONG. SEE 7/S1.5 FOR ADD'L INFO.

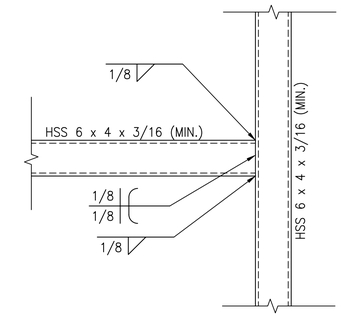
## UTILITY THROUGH HSS FLOOR BEAM (7)



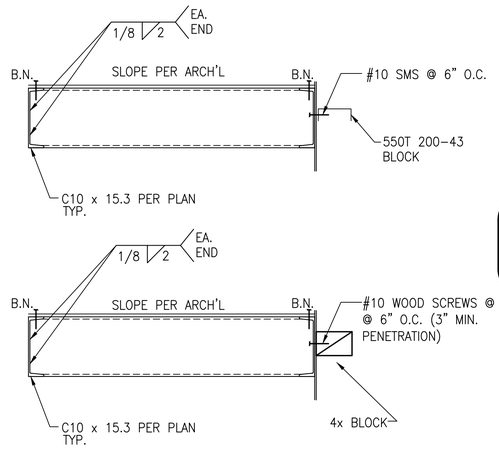

## SLOPE DETAIL (8)



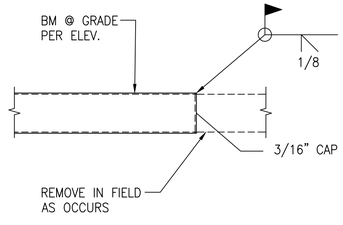

## (5)




## TYP INTERIOR FLR.TUBE TO FLR. TUBE (1)

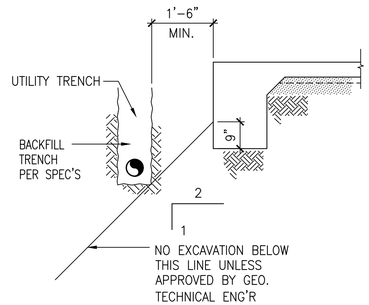



## BLOCKING AT AWNING (2)

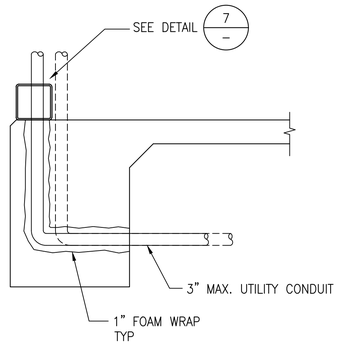



**CAP PLATE DETAIL**

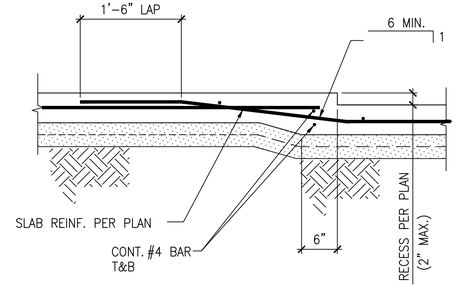
## FIELD CUT & CAP (10)




## UTILITY TRENCH ADJACENT TO CONT. FTG (9)




## CONDUIT THROUGH FLOOR BEAM (6)




## RECESS AT SLAB (3)

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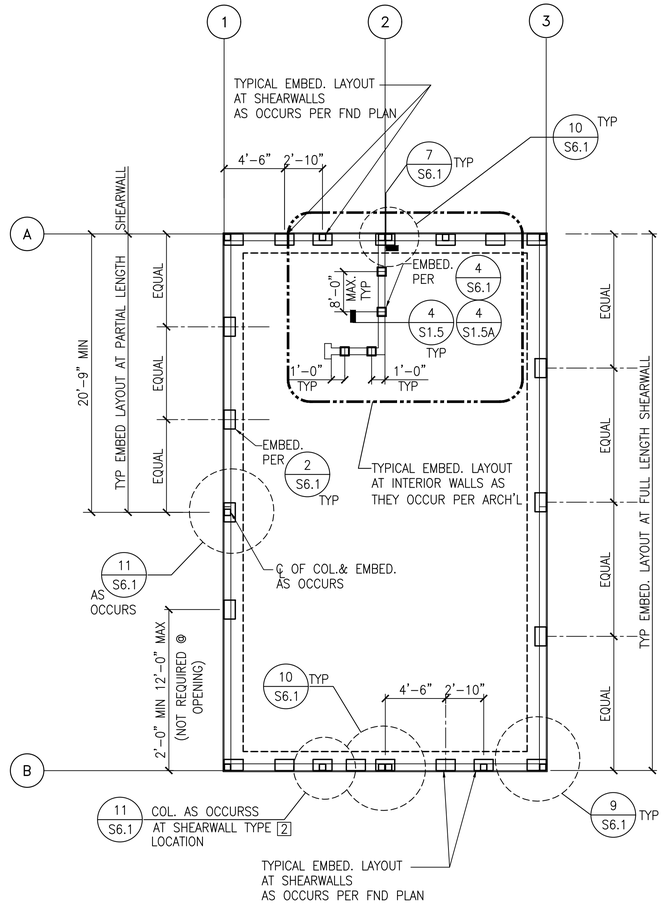
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RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
TYPICAL DETAILS

DSA APP NO.
02-119613
PROJECT NO.
06-0142
DRAWING
S1.9




PLAN NORTH

## EMBEDMENT PLAN – 2 MODULES

SCALE 3/16" = 1'-0" (1)

LEGEND:

INDICATES EMBED PER 2 S6.1

INDICATES EMBED PER 4 S6.1

NOTES:

1. FOR TYPICAL DETAILS AND GENERAL NOTES, SEE SHEETS S1.1, S1.2, S1.3, S1.4, S1.5, S1.5A, S1.6, S1.6A, S1.7, S1.8 AND S1.9
2. FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL AND FOUNDATION PLAN.
3. FOR SHEARWALL LOCATION SEE FOUNDATION PLAN.
4. FOR RESTROOM EMBEDMENT OPTION REFER TO S2.11

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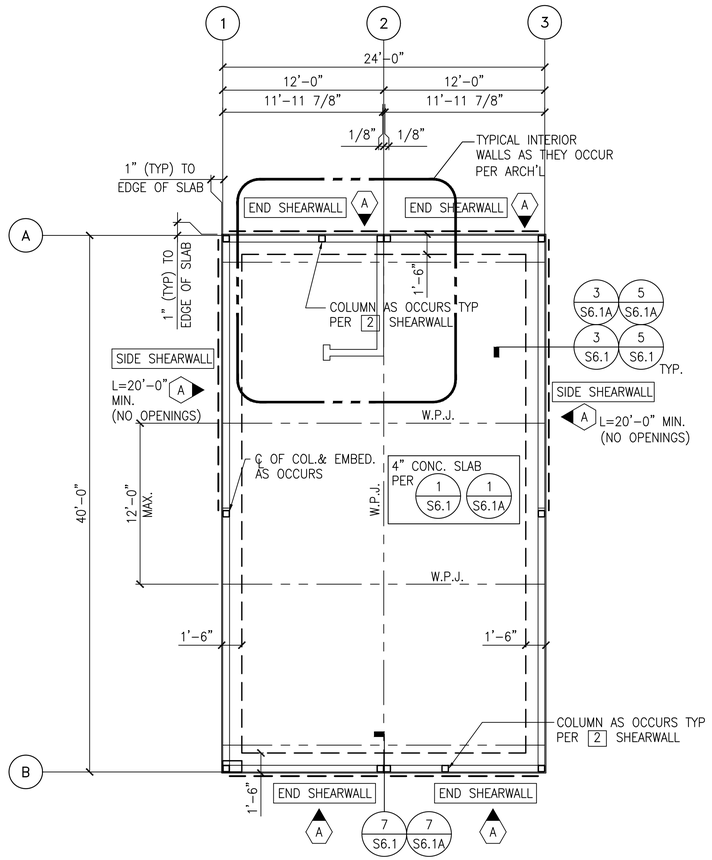
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DRAWING TITLE
EMBEDMENT PLAN
2 MODULES

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
**S2.2**




PLAN NORTH

## FOUNDATION PLAN – 2 MODULES

SCALE 3/16" = 1'-0"

1

END SHEARWALL

1. MINIMUM 2 SHEARWALLS OF TYPES 1 OR 2 IS REQUIRED AT EACH END WALLS SEE SHEET S1.6 OR S1.6A OPEN AREAS OF SHEARWALL CAN BE INFILLED FOR SOLID WALLS.

SIDE SHEARWALL

1. MINIMUM OF 20'-0' PLYWOOD SHEATHING, STEEL 6 x 6 x 3/16 COLUMN IS REQUIRED AT END OF SHEARWALL CONNECTED TO EMBED., SEE EMBED. PLAN FOR TYPES AND LOCATIONS. SHEARWALL CAN BE POSITIONED AT ANY LOCATION ALONG THE LINE PROVIDED MINIMUM LENGTH IS ARCHIVED, AND STEEL COLUMNS ARE LOCATED AT END OF SHEARWALL & EMBED. IS CENTERED BELOW EACH COLUMN.

LEGEND:

A L=20'-0" INDIATES SHEAR WALL FASTENING SCHEDULE AND LENGTH

INDICATES EXTERIOR WALL

NOTES:

1. FOR TYPICAL DETAILS AND GENERAL NOTES, SEE SHEETS S1.1, S1.2, S1.3, S1.4, S1.5, S1.5A, S1.6, S1.6A, S1.7, S1.8 AND S1.9
2. FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL.
3. PRIOR TO CONSTRUCTION, VERIFY ALL DIMENSION WITH THE ARCHITECTURAL DRAWINGS
4. INTERIOR NON-BEARING WALLS CAN BE PLACED ANYWHERE WITHIN THE STRUCTURAL SHELL.
5. EXTERIOR NON-STRUCTURAL FRAMING NOT SHOWN, SHALL BE BY ARCH'L.
6. MIRROR OF THE BUILDING IS ACCEPTABLE.
7. FOR FOUNDATION PLAN OF RESTROOM OPTION, REFER TO S3.11

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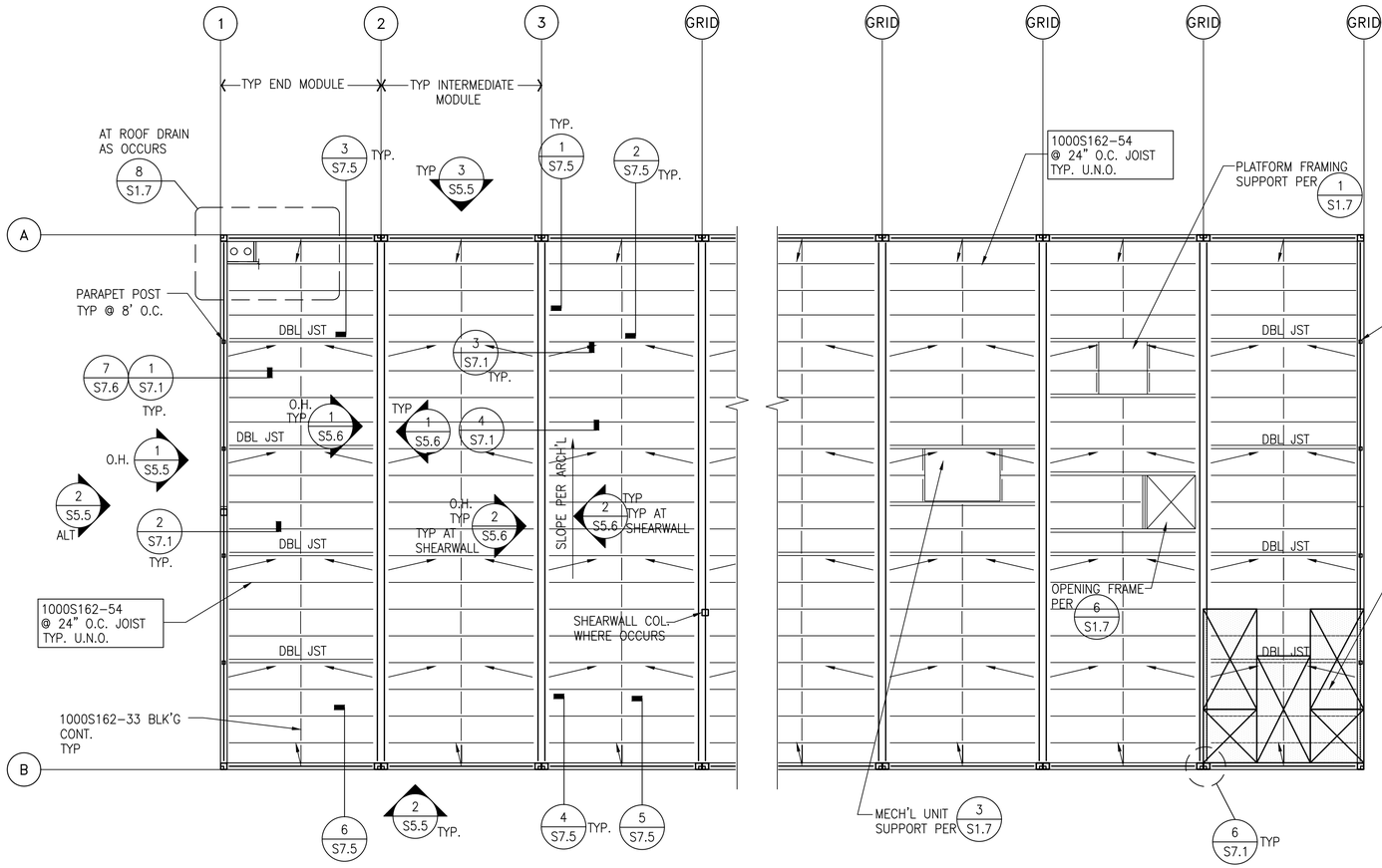

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RELOCATABLE SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING
DRAWING TITLE: FOUNDATION PLAN 2 MODULES

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
**S3.2**




| ROOF DIAPHRAGM PER 6 S1.8 FOR 1,5,6,7,8,9 OR 10 MODULE BUILDING |
|---|
| 5/8" PLYWD STR I (32/16)<br>w/ #10 S.T.S. x 1 3/4"<br>@ 2 1/2" O.C. B.N.<br>@ 4" O.C. E.N.<br>@ 12" O.C. F.N. (BLOCKED) |
| |
| USE 1/4" TEKS SCREWS x 3" AT STEEL BM AND CHANNELS W/ 1/2" MIN EDGE DIST. |

| ROOF DIAPHRAGM PER 6 S1.8 FOR ALL 2 TO 4 MODULES |
|---|
| 5/8" PLYWD STR I (32/16)<br>w/ #10 S.T.S. x 1 3/4"<br>@ 6" O.C. B.N.<br>@ 6" O.C. E.N.<br>@ 12" O.C. F.N. (UNBLOCKED) |
| PLYWD CLIP "PSCL" @ 16" O.C. |
| USE 1/4" TEKS SCREWS x 3" AT STEEL BM AND CHANNELS W/ 1/2" MIN EDGE DIST. |

## ROOF FRAMING PLAN – SINGLE SLOPE – PARAPET

SCALE 3/16" = 1'–0"

PLAN NORTH

NOTES:

1. FOR TYPICAL DETAILS AND GENERAL NOTES, SEE SHEETS S1.1, S1.2, S1.3, S1.4, S1.5, S1.5A, S1.6, S1.6A, S1.7, S1.8 AND S1.9
2. FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL.
3. FOR MECH'L SIZE AND LOCATION, SEE MECH'L AND ARCH'L DRAWINGS.
4. FOR FRAMING MEMBERS NOT SHOWN, SEE S5.XX SHEETS.
5. FOR 1–MODULE CONFIGURATION, USE BLOCKED DIAPHRAGM.

LEGEND:

INDICATES FRAME ELEVATION

INDICATES BRACE

INDICATES BLK'G/BRIDGING, SEE 2 S1.7, 3 S1.7, 10 S1.7

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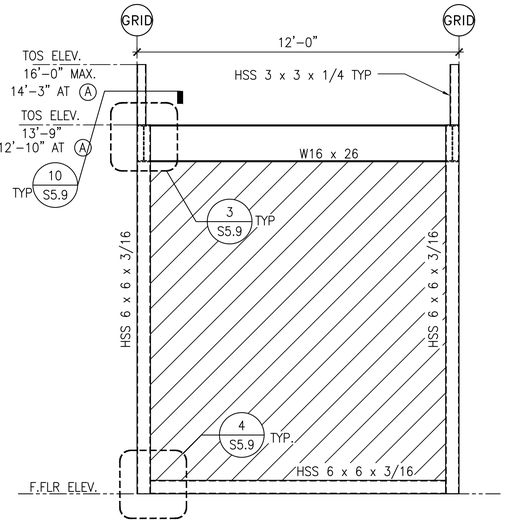
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DRAWING TITLE
ROOF FRAMING PLAN
SINGLE SLOPE PARAPET

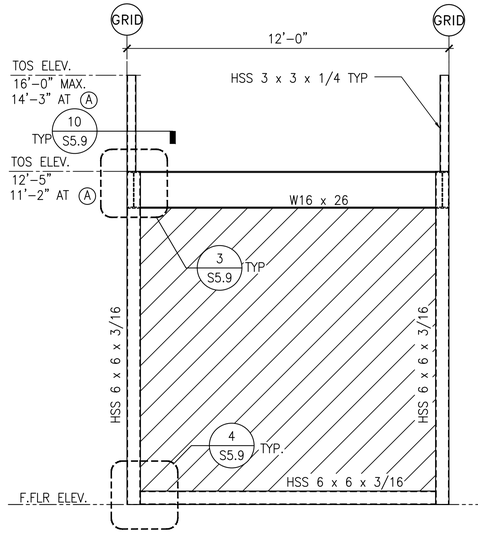
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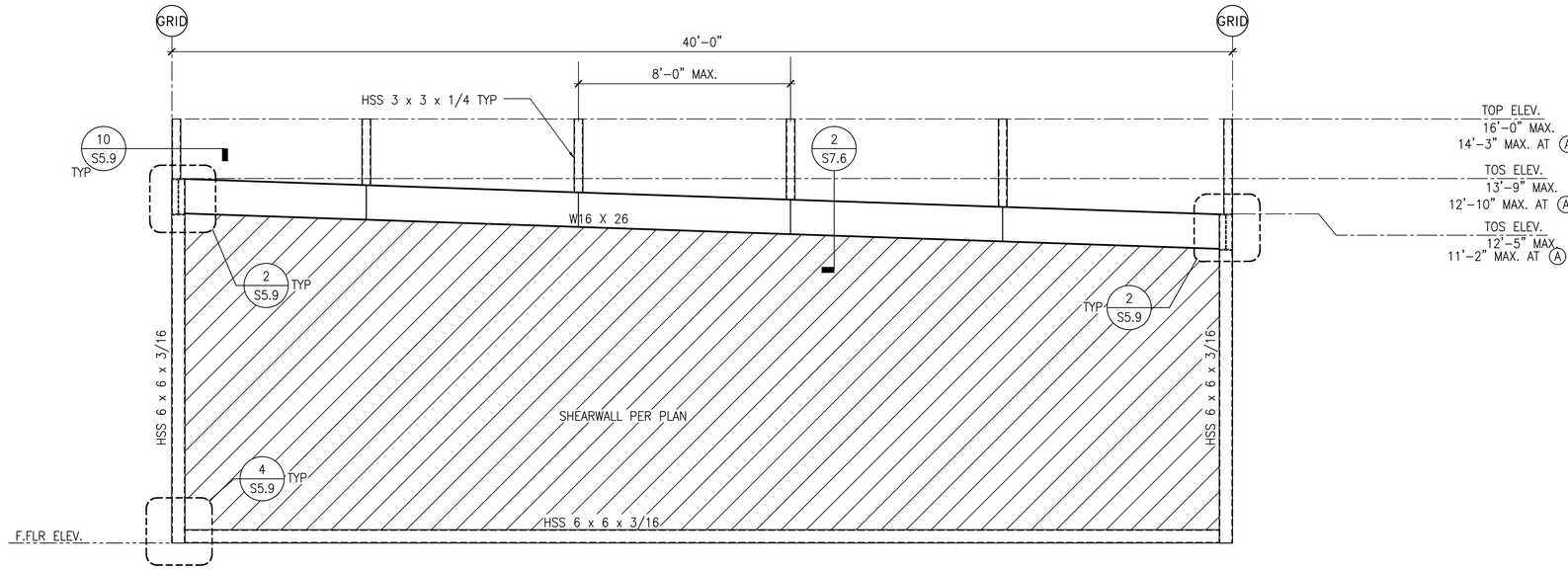
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**S4.3**

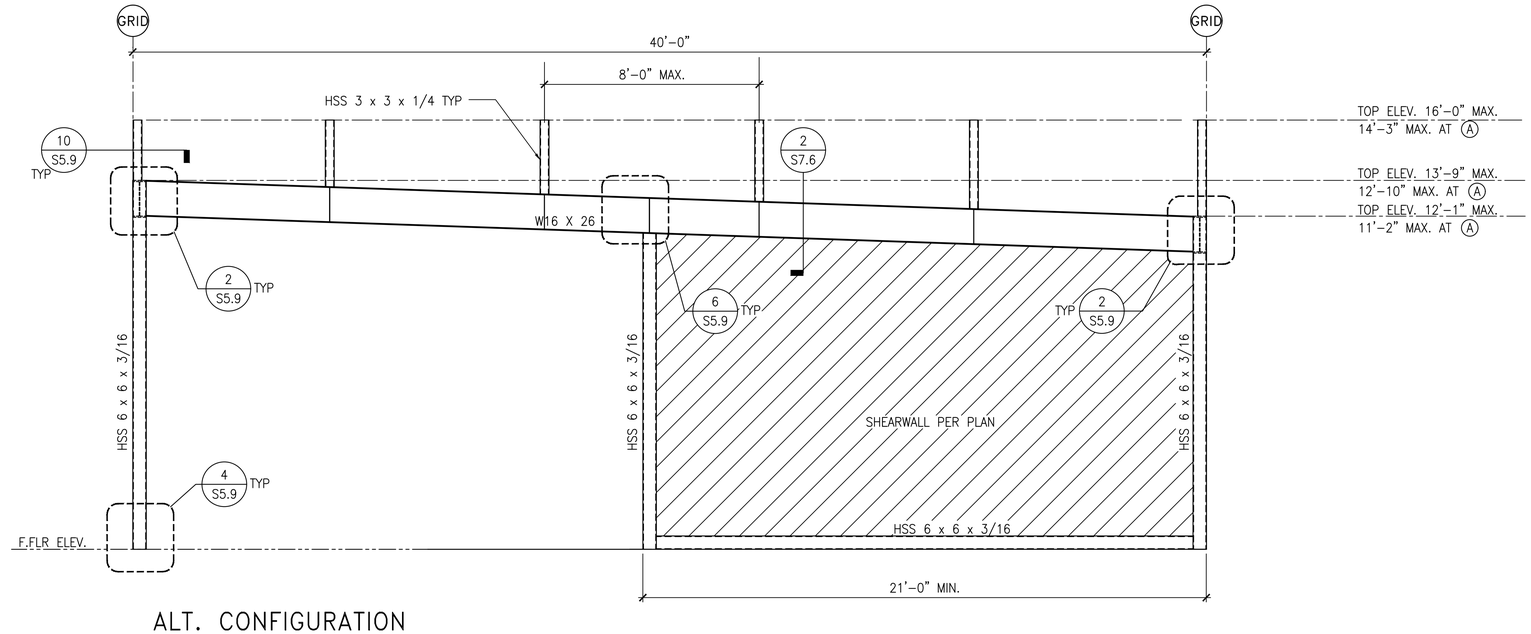



2A 2




3A 3




ALT. CONFIGURATION

1A 1

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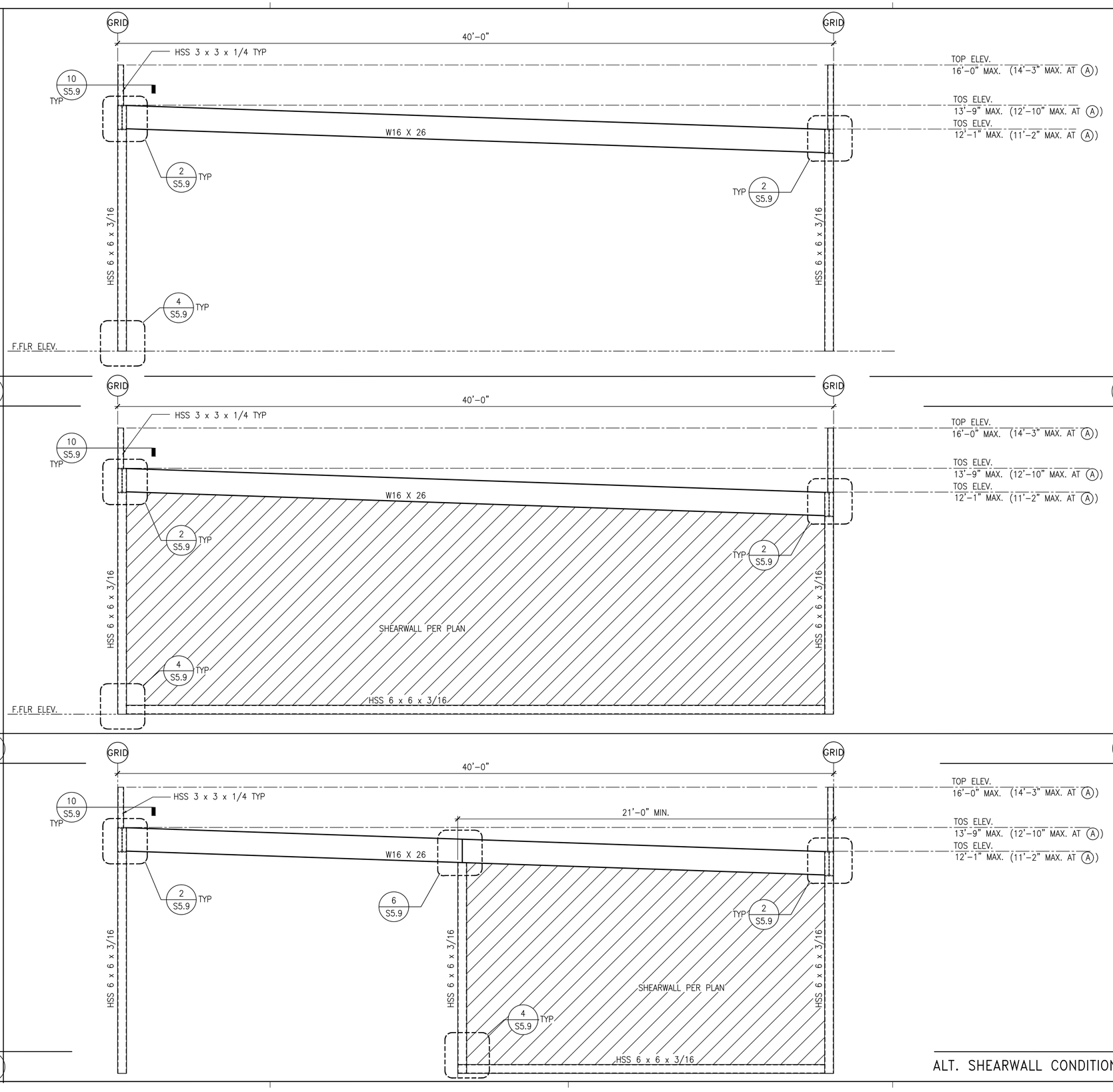
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40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
FRAME ELEVATIONS SINGLE SLOPE
WITH PARAPET

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**S5.5**




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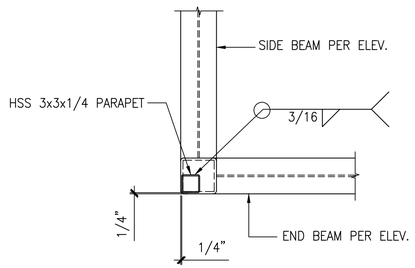
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FRAME ELEVATIONS SINGLE SLOPE

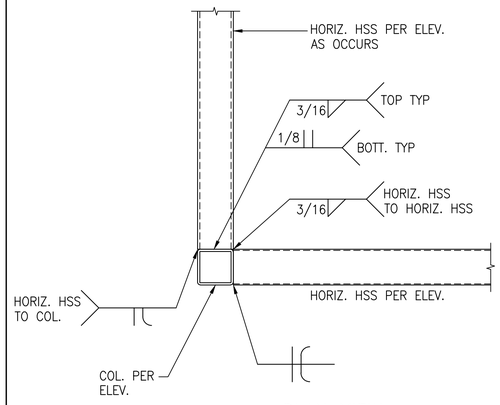
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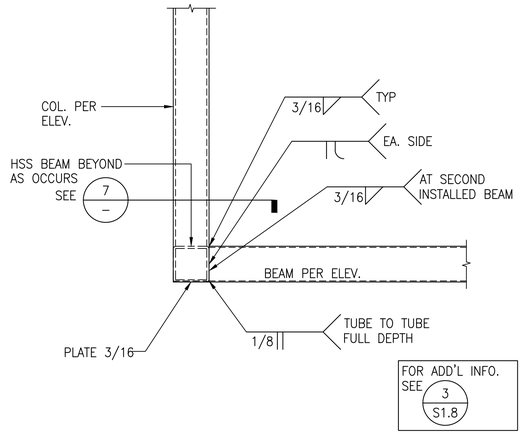



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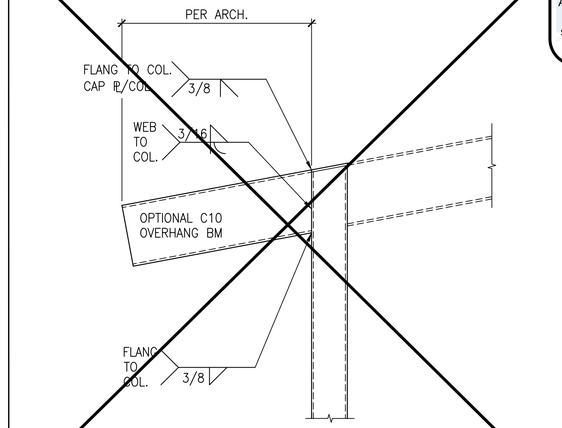



PLAN VIEW

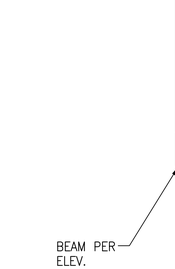
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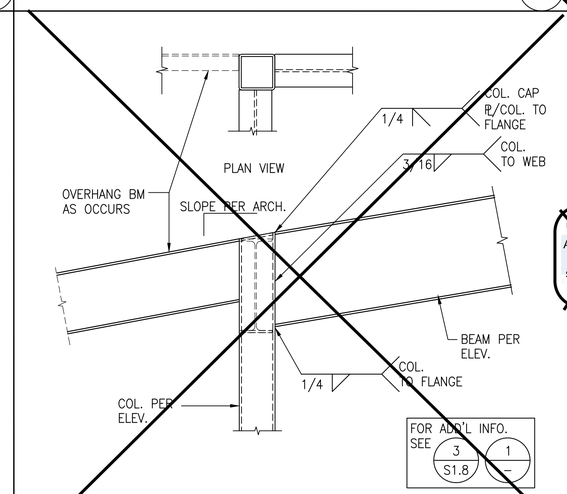

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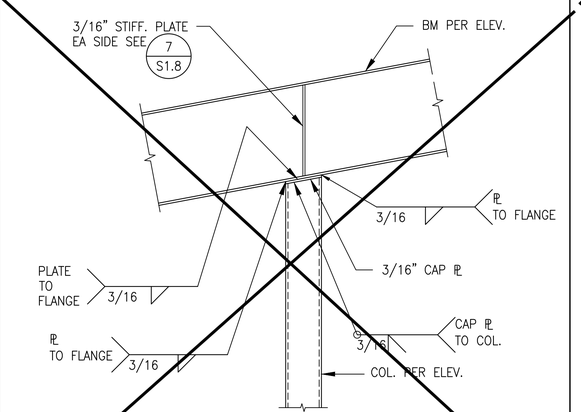

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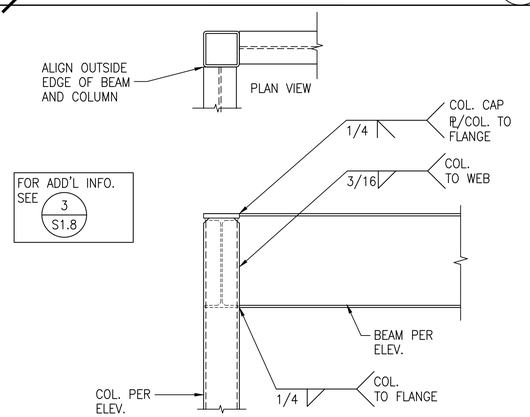

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12

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6




3

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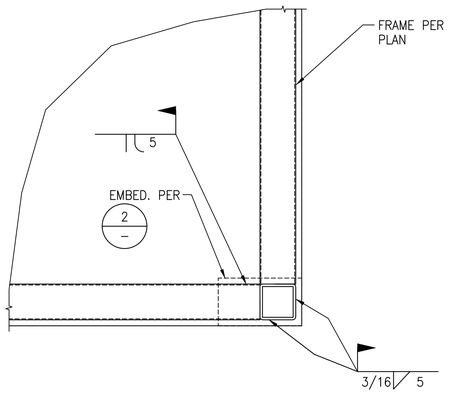
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40'-0" WIDE MODULAR BUILDING

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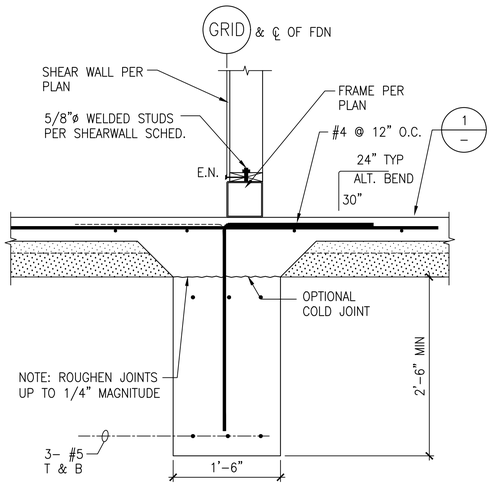
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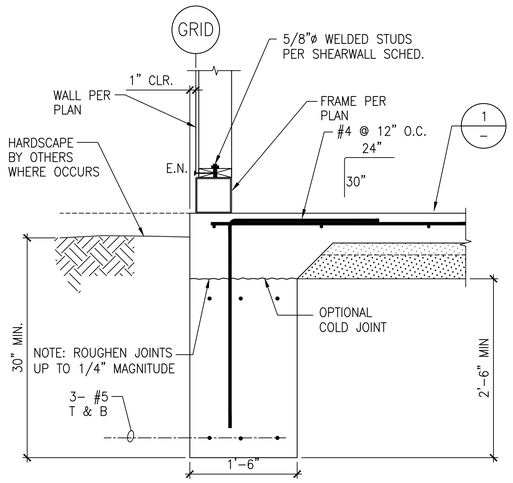
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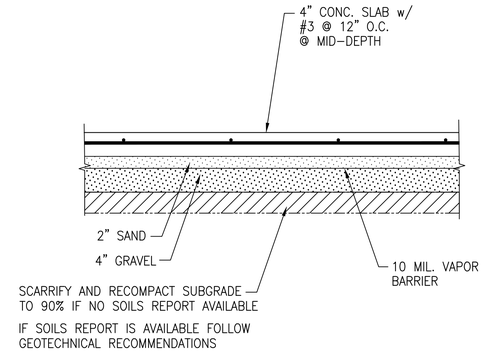

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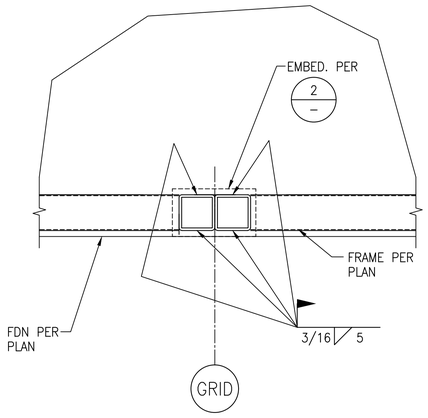



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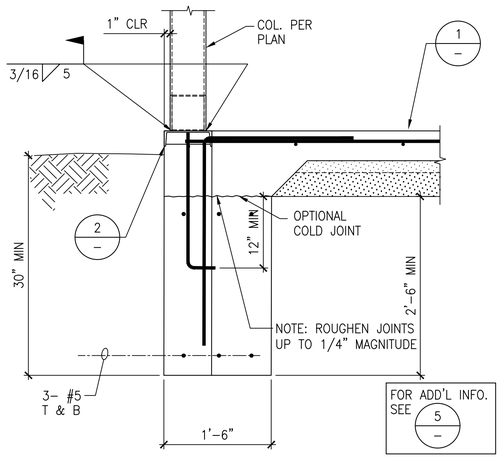



TYP SLAB ON GRADE

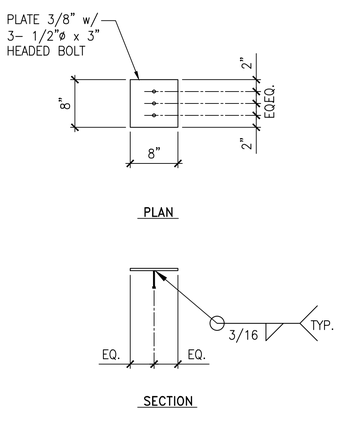
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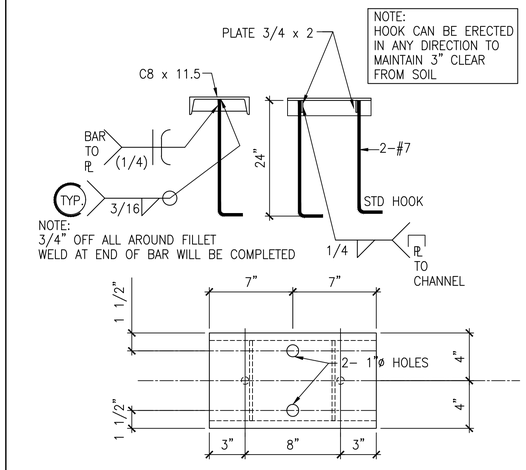

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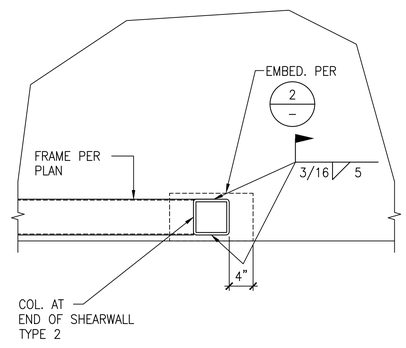

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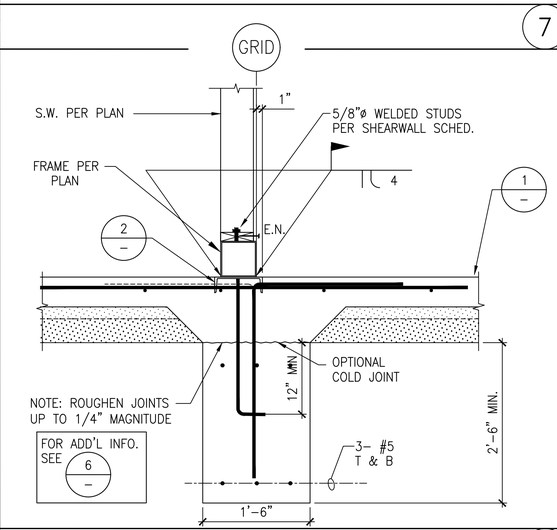

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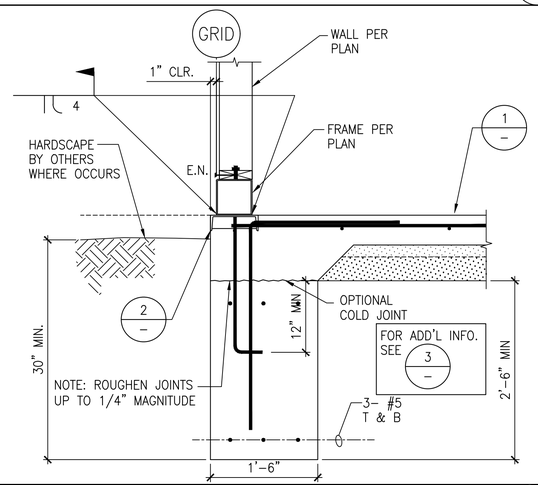

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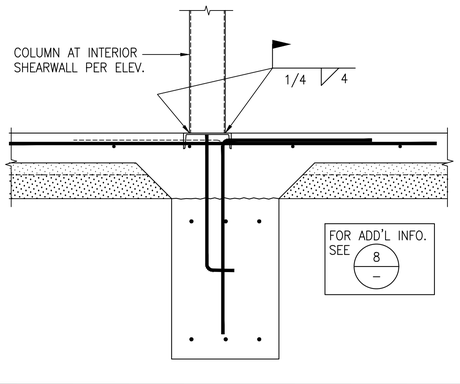

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12

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REGISTERED PROFESSIONAL ENGINEER
BRIAN J. OMEARA
No. S 4417
EXP. 12/31/22
STRUCTURAL
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CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526

A separate project application for construction is required

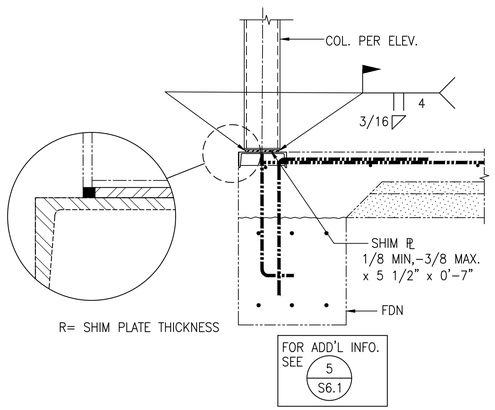
RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
FOUNDATION DETAILS
WOOD STUD WALLS

DSA APP NO.
02-119613

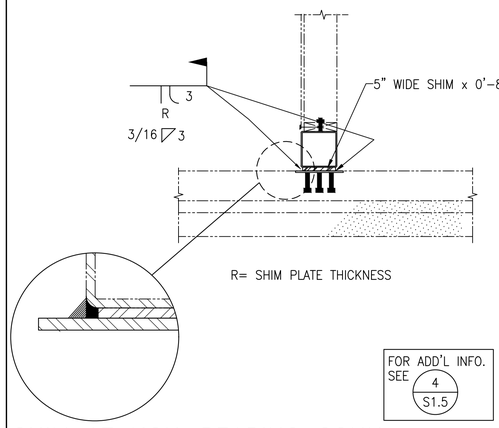
PROJECT NO.
06-0142

DRAWING
**S6.1**



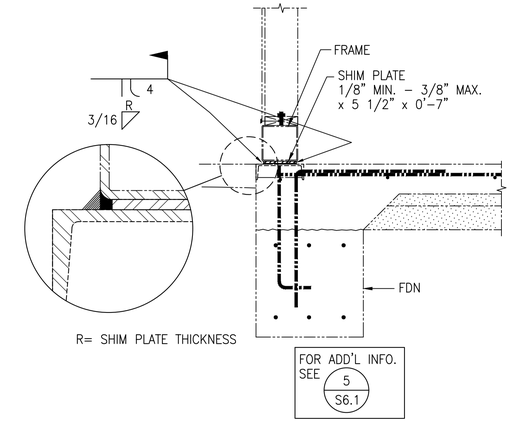

SHIM AT STRUCTURAL CONN.

9 SHIM ≤ 3/8"




SHIM AT NON-BEARING CONN.

6 SHIM ≤ 3/8"




SHIM AT STRUCTURAL CONN.

3 SHIM ≤ 3/8"

1 SHIM ≤ 3/8"




SHIM AT STRUCTURAL CONN.

10 SHIM > 3/8"




SHIM AT NON-BEARING CONN.

7 SHIM > 3/8"

4 SHIM > 3/8"




SHIM AT STRUCTURAL CONN.

2 SHIM > 3/8"

8 11 5

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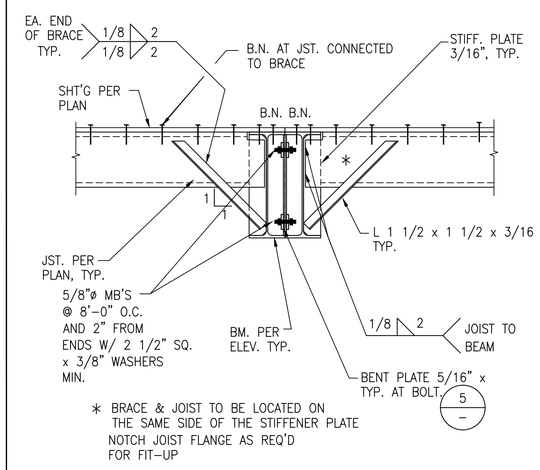
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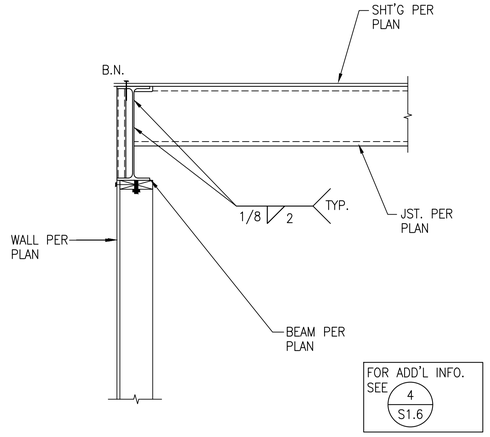
DRAWING TITLE
FOUNDATION SHIM DETAILS
WOOD STUD WALLS

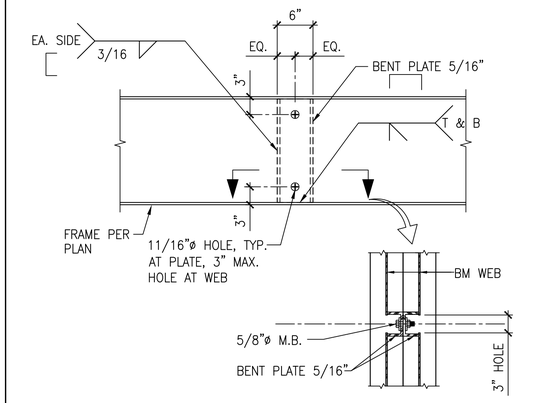
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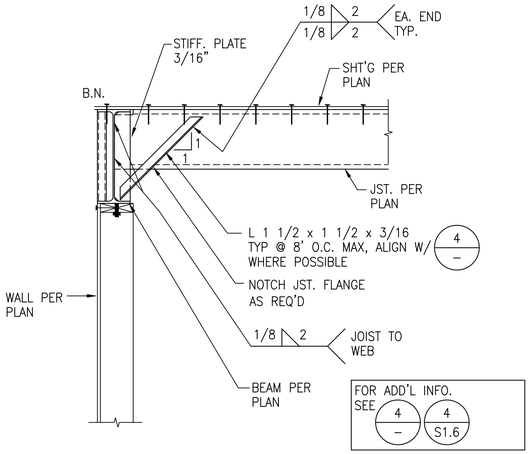
PROJECT NO.
06-0142

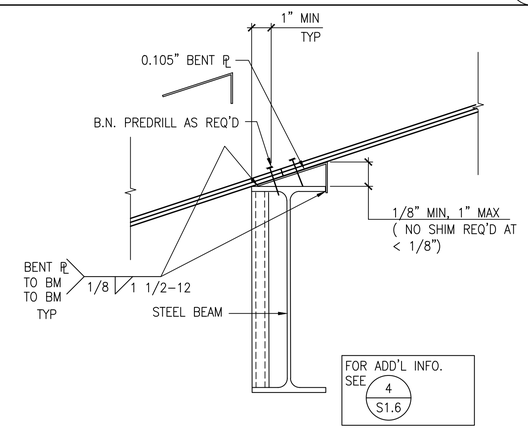
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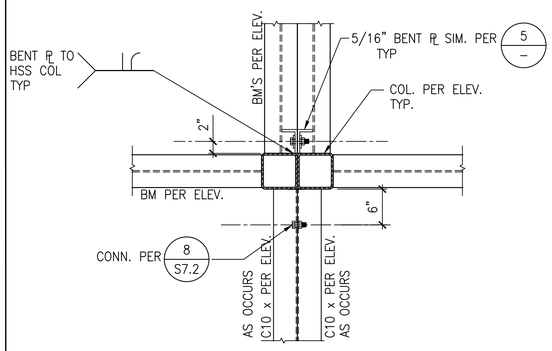


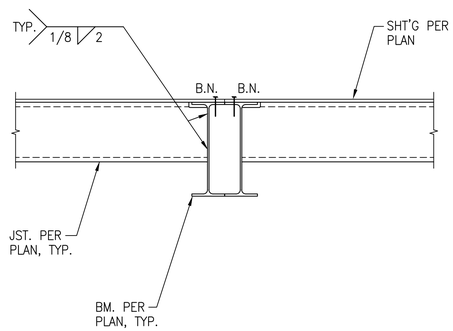




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RYAN J. OMEL
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DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
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40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
WOOD STUD FRAMING DETAILS

DSA APP NO.
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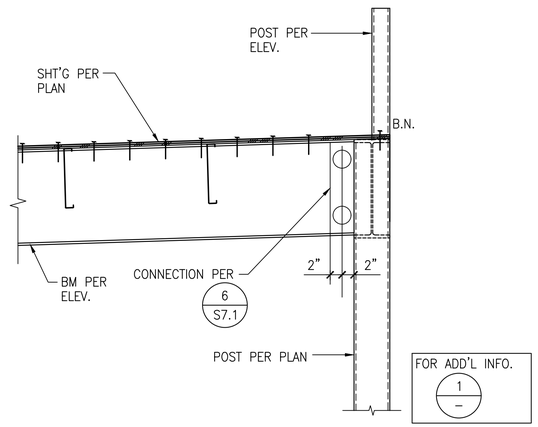
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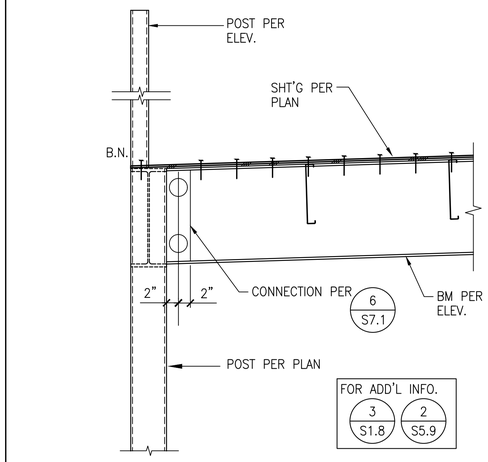
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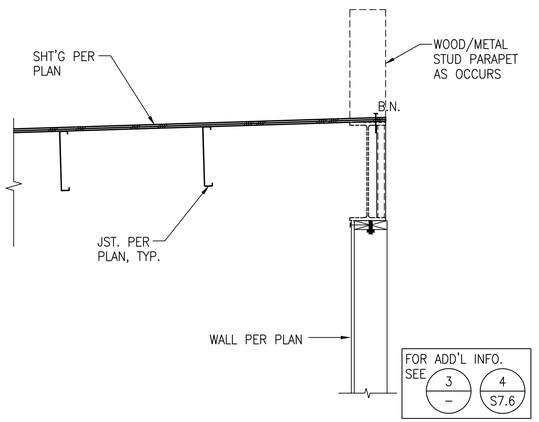

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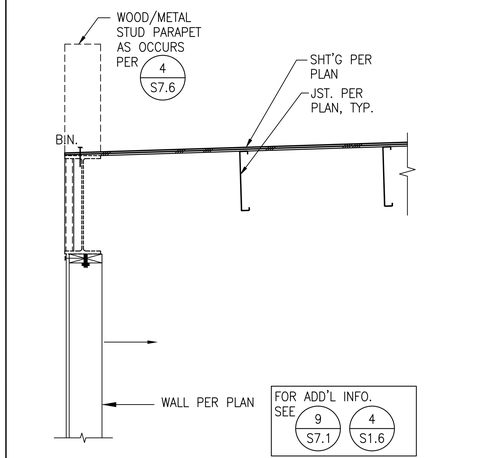

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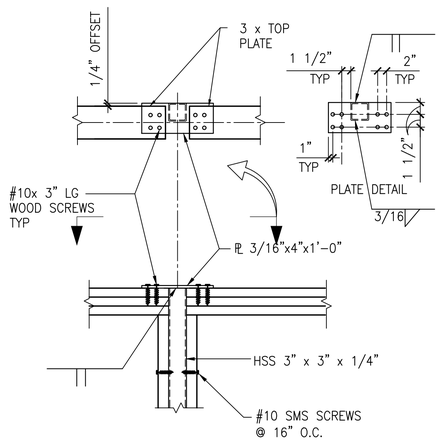
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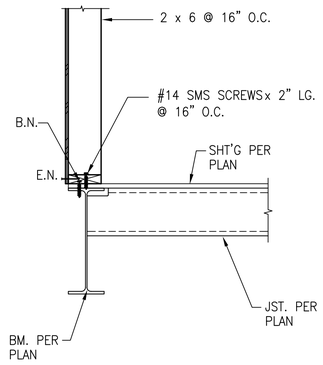
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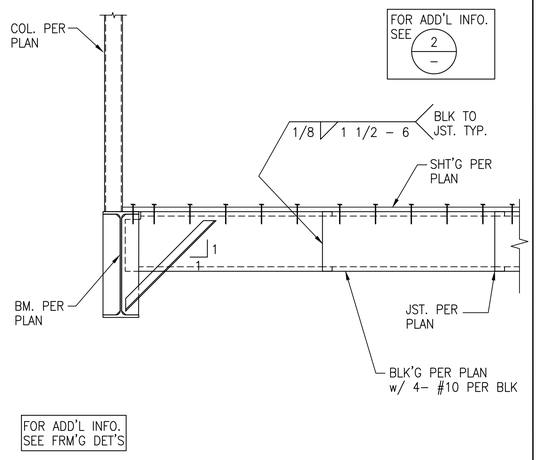
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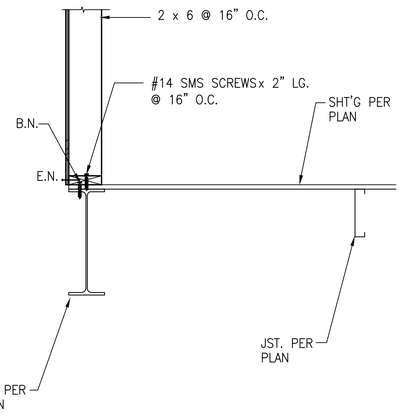

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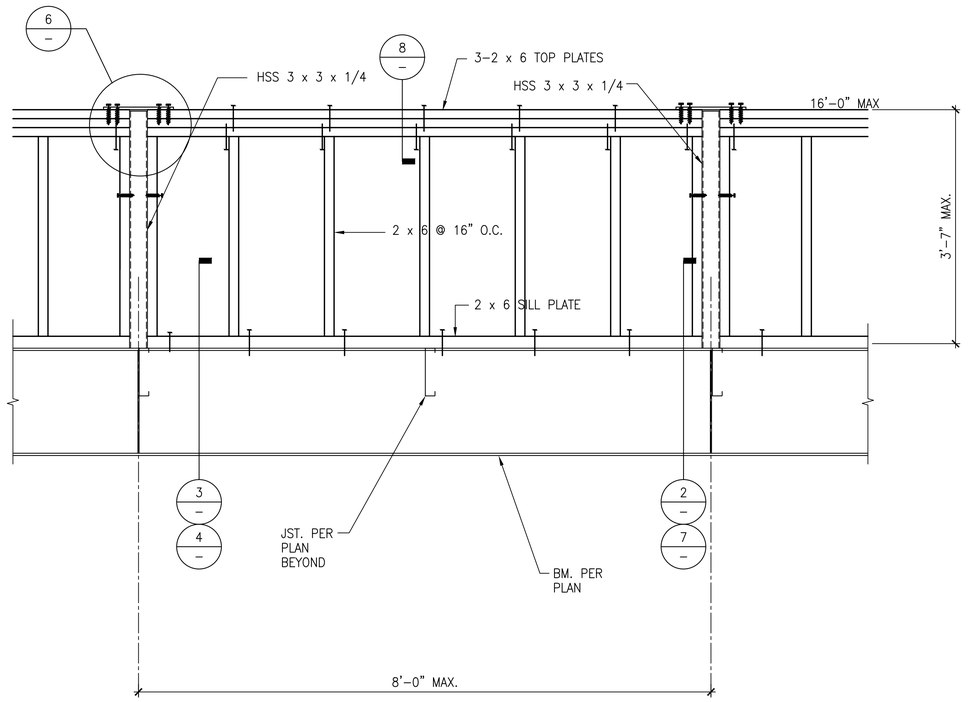

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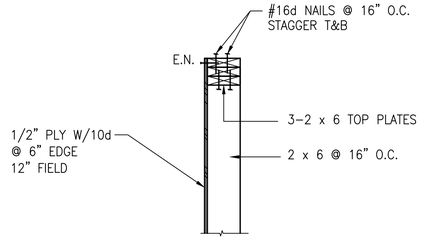

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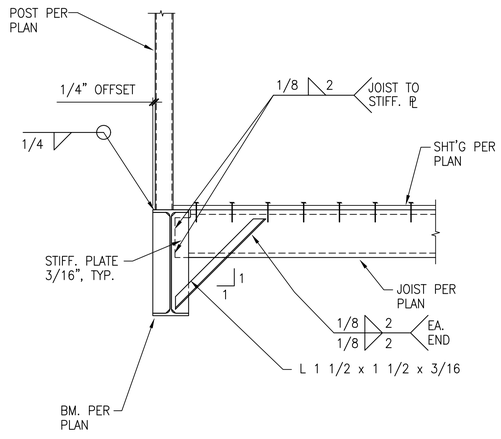

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40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
PARAPET FRAMING DETAILS
WOOD STUD

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
**S7.6**

# MECHANICAL ABBREVIATIONS

| | | | |
|---|---|---|---|
| & | AND | HB | HOSE BIBB |
| ∠ | ANGLE | HD | HEAD |
| @ | AT | HDWE | HARDWARE |
| ℄ | CENTER LINE | HI. | HIGH |
| ℞ | PROPERTY LINE | HORIZ | HORIZONTAL |
| ø | DIAMETER or ROUND | HP | HORSEPOWER |
| (E) | EXISTING | HW | HOT WATER |
| (N) | NEW | HWR | HOT WATER RETURN |
| ⊥ | PERPENDICULAR | HWS | HOT WATER SUPPLY |
| # | POUND or NUMBER | HVAC | HEATING, VENTILATING, AIR CONDITIONING |
| Ⓣ | THERMOSTAT | | |
| A/C | AIR CONDITIONING | ID | INSIDE DIAMETER (DIM.) |
| AC | ACCESSIBLE | INSUL | INSULATION |
| AP | ACCESS PANEL | INT | INTERIOR |
| ABV | ABOVE | | |
| ADJ | ADJUSTABLE | LAV | LAVATORY |
| AFF | ABOVE FINISH FLOOR | LBS | POUNDS |
| AE | ADJUSTABLE EXTRACTOR | LPG | LIQUID PETROLEUM GAS |
| AGGR | AGGREGATE | MACH | MACHINE |
| ALUM | ALUMINUM | MATL | MATERIAL |
| APPROX | APPROXIMATE | MAX. | MAXIMUM |
| APPT | APPOINTMENTS | MBH | BTU PER HOUR (THOUSANDS) |
| ARCH. | ARCHITECTURAL | MCA | MINIMUM CIRCUIT AMPS |
| ARI | AMERICAN REFRIGERATION INSTITUTE | MECH | MECHANICAL |
| ASPH | ASPHALT | MTL | METAL |
| ASST | ASSISTANT | MFGR | MANUFACTURER |
| AUTO. | AUTOMATIC | MH | MANHOLE |
| | | MIN | MINIMUM |
| BD | BALANCING DAMPER | MISC | MISCELLANEOUS |
| BDD | BACKDDRAFT SAMPER | MUA | MAKE UP AIR |
| (BF) | BELOW FINISH FLOOR | (N) | NEW |
| (BG) | BELOW FINISH GRADE | NIC | NOT IN CONTRACT |
| BLDG | BUILDING | NO. or # | NUMBER |
| BLKG | BLOCKING | NOM | NOMINAL |
| BM | BEAM | NTS | NOT TO SCALE |
| BTUH | BRITISH THERMAL UNIT/ HOUR | | |
| BOT | BOTTOM | OA | OVERALL |
| BV | BALL VALVE | OBD | OPPOSED BLADE DAMPER |
| | | OC | ON CENTER |
| CA | COMBUSTION AIR | OSA | OUTSIDE AIR |
| CAP | CAPACITY | OVHD | OVERHEAD |
| CD | CONDENSATE DRAIN | | |
| CFD | CEILING FIRE DAMPER | PTN | PARTITION |
| CFM | CUBIC FEET PER MINUTE | PHYS | PHYSICAL |
| CHW | CHILLED WATER | PR | PRESSURE RELIEF |
| CHWR | CHILLED WATER RETURN | PVC | POLY-VINYL CLORIDE PIPE |
| CHWS | CHILLED WATER SUPPLY | PLAS | PLASTER |
| CJ | CONTROL JOINT | PLYWD | PLYWOOD |
| CLG | CEILING | POC | POINT OF CONNECTION |
| CLKG | CAULKING | PREFAB | PREFABRICATED |
| CLR | CLEAR | PREP | PREPARATION |
| CO | CLEANOUT | PSI | POUNDS PER SQUARE INCH |
| COL | COLUMN | PW | PROCESSED WATER |
| COMP | COMPRESSED | R | RISER |
| CONC | CONCRETE | RA | RETURN AIR |
| CONF | CONFERENCE | RAD. | RADIUS |
| CONN | CONNECTION | RAG | RETURN AIR GRILLE |
| CONST | CONSTRUCTION | REF | REFERENCE |
| CONT | CONTINUOUS | REINF | REINFORCED |
| CORR | CORRIDOR | REQD | REQUIRED |
| CTR | CENTER | RM | ROOM |
| CV | CHECK VALVE | RND | ROUND |
| DBL | DOUBLE | S | SOUTH |
| DB | DRY BULD (TEMPERATURE) | SA | SUPPLY AIR |
| DEPT | DEPARTMENT | SAD | SUPPLY AIR DIFFUSER |
| DET | DETAIL | SAG | SUPPLY AIR GRILLE |
| DF | DRINKING FOUNTAIN | SAR | SUPPLY AIR REGISTER |
| DHW | DOMESTIC HOT WATER | SCHD | SCHEDULE |
| DHWR | DOMESTIC HOT WATER RETURN | SD | SMOKE DETECTOR |
| DIA or ø | DIAMETER | SEER | SEASONAL ENERGY EFFICIENCY |
| DIR | DIRECTOR | SECT. | SECTION |
| DN | DOWN | SHT | SHEET |
| DR | DOOR | SIM | SIMILAR |
| DS | DOWNSPOUT | SQ | SQUARE |
| DSP | DRY STANDPIPE | SPEC | SPECIFICATION |
| DTR | DUCT THRU ROOF | SP | STATIC PRESSURE |
| DTW | DUCT THRU WALL | SOV | SHUT-OFF VALVE |
| DWG | DRAWING | SS | SERVICE SINK |
| | | SST | STAINLESS STEEL |
| E | EAST | STD | STANDARD |
| EA | EXHAUST AIR | STL | STEEL |
| EAG | EXHAUST AIR GRILLE | STOR | STORAGE |
| EDB | ENTERING DRY BUBL | | |
| EER | ENERGY EFFICIENCY RATIO | STRUCT | STRUCTURAL |
| ELEC | ELECTRICAL | SUPV | SUPERVISOR |
| ELEV | ELEVATION | SUSP | SUSPENDED |
| EMER | EMERGENCY | S&W | SOIL & WASTE |
| ENCL | ENCLOSURE | TC | TOP OF CURB |
| EP | ELECTRICAL PANEL | TEL | TELEPHONE |
| EQ | EQUAL | TER | TERRAZZO |
| EQUIP | EQUIPMENT | TG | TRANSFER GRILLE |
| (E) | EXISTING | THK | THICK |
| ESP | EXTERNAL STATIC PRESSURE | TOC | TOP OF CONCRETE |
| EWB | ENTERING WET BULB | TP | TRAP PRIMER |
| EXPO. | EXPOSED | TRANS | TRANSCRIPTION |
| EXT | EXTERIOR | TREAT. | TREATMENT |
| FA | FIRE ALARM | TYP | TYPICAL |
| FC | FLEXIBLE CONNECTION | TV | TEMPERING VALVE |
| FD | FIRE DAMPER | UL | UNDERWRITERS LABORATORIES |
| FDN | FOUNDATION | UON | UNLESS OTHERWISE NOTED |
| FHC | FIRE HOSE CAB. | UR | URINAL |
| FIN. | FINISH | V | VENT |
| FLA | FULL LOAD AMPS | VD | VOLUME DAMPER |
| FM | FIRE MAIN | VTR | VENT THRU ROOF |
| FPM | FEET PER MINUTE | VSAD | VARIBLE SUPPLY AIR DIFFUSER |
| FSD | FIRE/SMOKE DAMPER | W | WASTE LINE |
| FSL | FIRE SPRINKLER LINE | W/ | WITH |
| FTR | FLUE THRU ROOF | WFD | WALL FIRE DAMPER |
| FURR | FURRING | WH | WATER HEATER |
| GA | GAUGE OR GAGE | WHA | WATER HAMMER ARRESTOR |
| GALV | GALVANIZED | W/O | WITHOUT |
| GEN | GENERAL | WMF | WASHING MACHINE FITTING |
| GI | GALVANIZED IRON | WP | WATERPROOF |
| GPM | GALLONS PER MINUTE | WT | WEIGHT |
| G | GAS LINE | | |

# SYMBOLS

| SYMBOL | DESCRIPTION |
|---|---|
| SIZE / CFM | SUPPLY AIR CEILING DIFFUSER |
| SIZE / CFM | SUPPLY VARIBLE AIR CEILING DIFFUSER HEAT & COOL |
| SIZE / CFM | RETURN AIR CEILING REGISTER |
| SIZE / CFM | EXHAUST AIR CEILING REGISTER |
| SIZE / CFM | SUPPLY AIR WALL DIFFUSER |
| SIZE / CFM | RETURN AIR WALL REGISTER |
| SIZE / CFM | EXHAUST AIR WALL REGISTER |
| SIZE | TRANSFER GRILLE |
| BDD | BACKDRAFT DAMPER |
| | DUCTWORK (RECTANGULAR) |
| | DUCTWORK (ROUND) |
| | LINED DUCTWORK |
| | TURNIG VANE |
| | FLEXIBLE CONNECTION |
| | MANUAL AIR VOLUME DAMPER |
| FD FD | FIRE DAMPER |
| SFD SFD | SMOKE FIRE DAMPER |
| OAI 500 | OUTSIDE AIR INTAKE MIN. CFM |
| A/C-1 | ROOM THERMOSTAT–SUBSCRIPT INDICATES UNIT CONTROL @ 48" AFF TO TOP OF BOX |
| BT | BYPASS TIMER |
| TC | TIME CLOCK |
| SD | DUCT SMOKE DETECTOR |
| | POINT OF CONNECTION |
| | CEILING EXHAUST FAN |
| CO | CO2 SENSOR |
| RAS | RETURN AIR SENSOR |

# GENERAL MECHANICAL NOTES

SECTION 1
BASIC MECHANICAL MATERIALS AND METHODS

PART 1 – GENERAL

1.1 SUMMARY
A. LABOR, MATERIALS, TOOLS, AND SERVICES FOR A COMPLETE INSTALLATION OF EQUIPMENT AND SYSTEM CONTAINED WITHIN THE CONTRACT DOCUMENTS.
B. PRINCIPAL FEATURES OF THE WORK INCLUDED ARE:
1. HEATING, VENTILATING, AIR CONDITIONING SYSTEMS, CONTROLS, AND MECHANICAL SYSTEM INSULATION.
2. ROOF CURBS FOR HVAC SYSTEMS, INTAKE HOODS, LOUVERS, SUPPLY FANS, AND RELIEF VENTS FURNISHED AND SET UNDER THIS DIVISION.
3. REFRIGERANT PIPING, CONNECTIONS, REFRIGERANT AND REFRIGERANT CHARGES.
4. EXCAVATING AND BACKFILLING FOR MECHANICAL WORK; COORDINATE WITH APPROPRIATE TRADE.
5. ANCHOR BOLTS, SLEEVES. SUPPORTS AND SIMILAR ITEMS TO BE BUILT INTO CONCRETE OR MASONRY.
6. PREPARATION FOR TESTING AND BALANCE OF MECHANICAL SYSTEMS AND CORRECTING DEFICIENCIES.
7. PREPARATION AND SUBMITTAL OF SHOP DRAWING AND PRODUCT DATA.
8. MAINTAINING A RECORD SET OF BLUE LINE PRINTS AND MAKING THEM TO INDICATE LOCATIONS OF CONCEALED ITEMS, AND DEVIATIONS MADE TO SUIT CONDITIONS AND PRODUCTION OF MECHANICAL AS– BUILT (RECORD) DRAWINGS.

1.2 JOB CONDITIONS.
A. SUBMITTAL OF BID IMPLIES BIDDER HAS READ APPLICABLE PARAGRAPHS OF THE SPECIFICATIONS AND WILL BE BOUND BY THEIR CONDITIONS.

1.3 LOCAL CONDITIONS
A. CONFORM WITH LOCAL CONDITIONS. COORDINATE WITH LOCAL UTILITIES ON SIZE OF UTILITY SERVICE.

1.4 INTENT
A. THE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) DESCRIBE THE MECHANICAL WORK OF THIS PROJECT ANY ITEMS MENTIONED IN ONE PART SHALL BE AS BINDING AS THOUGH MENTIONED IN BOTH.
B. THE CONTRACT DOCUMENTS FORM A GUIDE FOR A COMPLETE MECHANICAL INSTALLATION. WHERE AN ITEM IS REASONABLY NECESSARY BUT NOT SPECIFICALLY MENTIONED, SUCH AS DUCT HANGERS OR TRANSITIONS, PIPING OFFSETS, DRAINS, ETC., FOR A COMPLETE SYSTEM, PROVIDE SAME.
C. MECHANICAL LAYOUTS INDICATED ON DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATIONS OF DUCTS, AND EQUIPMENT SHALL BE GOVERNED BY THE DRAWINGS OF RELATED TRADES.

1.5 DEVIATIONS
A. NO DEVIATIONS FROM SPECIFICATIONS AND DRAWINGS SHALL BE MADE WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT OF CONSTRUCTION MANAGER.
B. SHOULD CONTRACTOR FIND, DURING PROGRESS OF WORK, CONDITIONS WHICH DICTATE A MODIFICATION OF ANY PARTICULAR REQUIREMENTS, REPORT SUCH ITEM PROMPTLY FOR DECISION OF INSTRUCTIONS.

1.6 QUALITY ASSURANCE
A. COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES.
B. COMPLY WITH APPLICABLE REQUIREMENTS OF RECOGNIZED INDUSTRY ASSOCIATIONS WITH PROMULGATE STANDARDS FOR THE VARIOUS TRADES. (SEE DIVISIONS 21 THRU 23)
C. EMPLOY ONLY QUALIFIED JOURNEYMEN FOR THIS WORK. EMPLOY COMPETENT, QUALIFIED MECHANICS TO SUPERVISE THE WORK.

1.7 CODES AND STANDARDS
A. PERFORM WORK SPECIFIED IN DIVISIONS 21 THRU 23 IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS LISTED BELOW, AND SUCH STANDARDS THAT MAY BE SPECIFIED IN OTHER SECTIONS. WHEN THESE SPECIFICATIONS ARE MORE STRINGENT, THEY TAKE PRECEDENCE. IN CASE OF CONFLICT, OBTAIN A DECISION FROM THE MECHANICAL ENGINEER.
1. NFPA 54: NATIONAL FUEL AND GAS CODE.
2. NFPA 90A: AIR CONDITIONING AND VENTILATION SYSTEMS.
3. NFPA 101: LIFE SAFETY CODE.
4. APPLICABLE STATE BUILDING CODE.
5. APPLICABLE STATE MECHANICAL CODE.
6. ACCESSIBILITY REQUIREMENTS ANSI A117.1, ADA, AND CBC CHAPTER 11–B
7. APPLICABLE STATE ENERGY CODE.
8. AGA: AMERICAN GAS ASSOCIATION.
9. ANSI: AMERICAN NATIONAL STANDARDS INSTITUTE.
10. ARI: AMERICAN REFRIGERATION INSTITUTE.
11. ASHRAE: AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS.
12. ASME: AMERICAN SOCIETY FOR MECHANICAL ENGINEERS.
13. ASTM: AMERICAN SOCIETY FOR TESTING AND MATERIALS.
14. MSS: MANUFACTURER'S STANDARDIZATION SOCIETY OF THE VALVE AND FITTING INDUSTRY.
15. NFPA: NATIONAL FIRE PROTECTION ASSOCIATION.
16. SMACNA: SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION.
17. UL: UNDERWRITERS' LABORATORIES. INC.
18. TITLE 24 CODES: SEE SHEET E–0.01

1.8 COORDINATION
A. CAREFULLY EXAMINE SPECIFICATIONS AND DRAWINGS TO BE THOROUGHLY FAMILIAR WITH ITEMS WHICH REQUIRE HVAC CONNECTIONS AND COORDINATION.
B. COORDINATE WITH OTHER DIVISIONS TO LEAVE PROPER CHASES AND OPENINGS. PLACE OUTLETS, ANCHORS, SLEEVES, AND SUPPORTS PRIOR TO POURING CONCRETE OF INSTALLATION OF MASONRY WORK.

1.9 SUBMITTALS
A. SUBMITTALS ARE ONLY REQUIRED FOR SPECIFIC ITEMS OF EQUIPMENT OR MATERIAL LISTED IN INDIVIDUAL SECTIONS OF THESE SPECIFICATIONS.
B. WITHIN 15 DAYS AFTER AWARD OF CONTRACT FOR THIS WORK, SUBMIT A LIST OF PROPOSED MANUFACTURERS (OF EQUIPMENT OR MATERIAL TO BE USED) FOR APPROVAL. SUBMIT THIS LIST BEFORE SUBMITTAL OF SHOP DRAWINGS AND PRODUCT DATA, AND OBTAIN APPROVAL BEFORE SUBMITTING REQUIRED ITEMS.
C. SHOP DRAWINGS (NOT REQUIRED FOR OWNER FURNISHED EQUIPMENT).

1.10 DELIVERY AND STORAGE
A. INSOFAR AS POSSIBLE, DELIVER ITEMS IN MANUFACTURER'S ORIGINAL UNOPENED PACKAGING. WHERE THAT IS NOT PRACTICAL, COVER ITEMS WITH PROTECTIVE MATERIALS TO KEEP THEM FROM BEING DAMAGED. USE CARE IN LOADING, TRANSPORT, UNLOADING, AND STORAGE TO KEEP ITEMS FROM BEING DAMAGED.

1.11 FIRE RATINGS
A. MATERIALS USED ANYWHERE IN THE WORK MUST HAVE NFPA RATINGS AS FOLLOWING:
1. FLAME SPREAD – NOT OVER 25
2. SMOKE DEVELOPED – NOT OVER 50
3. FUEL CONTRIBUTED – NOT OVER 25
B. MATERIALS SHALL BE "SELF EXTINGUISHING".

1.12 PERMITS AND FEES
A. OBTAIN, PAY FOR, AND DELIVER PERMITS, CERTIFICATION OF INSPECTION, AND OTHER SUCH ITEMS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. DELIVER CERTIFICATION TO THE CONSTRUCTION MANAGER PRIOR TO FINAL ACCEPTANCE OF THE WORK. AN INSPECTION CERTIFICATE FOR EACH CLASS OF WORK REQUIRING INSPECTION MUST BE SUBMITTED PRIOR TO OR WITH THE FINAL PAYMENT INVOICE. THE RESPONSIBLE TRADE CONTRACTOR MUST MAKE APPLICATION FOR THE INSPECTION, COORDINATE SAME AND PAY THE REQUIRED INSPECTION FEE.

1.13 EXTENDED WARRANTIES
A. WORK FURNISHED UNDER THE CONTRACT SHALL BE WARRANTED AGAINST DEFECTS IN WORKMANSHIP AND ( CONTRACTOR FURNISHED) MATERIALS FOR A PERIOD OF NOT LESS THAT ONE (1) YEAR, OR AS OTHERWISE SPECIFIED, FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION, DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIED, AND DEFECTIVE MATERIAL REPLACED, WITHOUT ADDITIONAL COST. WHEN DEFECTS IN A TRADE CONTRACTOR'S WORK CAUSES DAMAGE TO THE WORK OF THE OTHER TRADE CONTRACTORS, SUCH DAMAGE SHALL BE REPAIRED BY THE TRADE CONTRACTOR CAUSING DAMAGE AND WORK RESTORED TO ITS ORIGINAL CONDITION, AT THE EXPENSE OF THE TRADE CONTRACTOR THAT CAUSED THE DAMAGE.

PART 2 – PRODUCTS

2.1 MATERIALS AND EQUIPMENT
A. WITHIN THE CONTRACT DOCUMENTS RELATING TO MECHANICAL WORK, MANUFACTURER'S NAMES, CATALOG NUMBERS, AND OTHER PROPRIETARY REFERENCES TO MATERIALS AND EQUIPMENT ARE MADE. SUCH REFERENCES ARE MADE TO ESTABLISH THE STANDARDS OF QUALITY AND TYPE REQUIRED, AND NOT TO LIMIT COMPETITION. ACCEPTABLE MANUFACTURER'S OF COMPETITIVE PRODUCTS ARE LISTED IN APPLICABLE SECTIONS AS "APPROVED EQUALS". REASONABLE REQUESTS FOR SUBSTITUTION OR ADDITIONS TO "APPROVED EQUALS" WILL BE CONSIDERED, BUT THE ARCHITECT WILL BE THE SOLE JUDGE OF ACCEPTABILITY OF ITEMS PROPOSED AS SUBSTITUTES.
B. MATERIALS AND EQUIPMENT USED IN CARRYING OUT THESE SPECIFICATIONS SHALL BEAR UL OR OTHER RECOGNIZED TESTING LABORATORY LABEL WHEN SUCH LABELS ARE AVAILABLE.

PART 3 – EXECUTION

3.1 LOCATIONS
A. MECHANICAL LAYOUTS INDICATED ON DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATIONS OF DUCT, AND EQUIPMENT MAY VARY BECAUSE OF CONFLICTS WITH WORK OF OTHER TRADES. WORK OUT CONFLICTS WHERE RELOCATION'S WILL NOT AFFECT OPERATION OR APPEARANCE OF SYSTEMS.
B. LOCATE EQUIPMENT REQUIRING PERIODIC SERVICING SO THAT IT IS READILY ACCESSIBLE. DO NOT BACK UP SERVICE SIDES TO WALLS, NOR PLACE IT TOO CLOSE TO OTHER EQUIPMENT TO MAKE SERVICE IMPRACTICAL. EQUIPMENT SERVICE CLEARANCE SHALL MEET MINIMUM ACCEPTABLE DISTANCE AS RECOMMENDED BY EQUIPMENT MANUFACTURER.

3.2 UTILITIES EXCAVATING AND BACKFILLING
A. PERFORM TRENCHING, EXCAVATING, BACKFILLING FOR MECHANICAL WORK IN ACCORDANCE WITH THE APPROPRIATE SECTIONS AND AS SET FORTH BELOW
1. PERFORM WORK NECESSARY FOR INSTALLATION OF MECHANICAL UTILITIES.
2. DEPTH OF EXCAVATION TO PROVIDE A MINIMUM OF 3' ABOVE TOP OF PIPE. EXCAVATION TO BE CARRIED TO A DEPTH OF AT LEAST 6" BELOW BOTTOM OF PIPE ELEVATION. FILL BELOW PIPE (6"), AROUND PIPE, AND A MINIMUM OF 12" ABOVE PIPE WIT SAND OR CLASS "B" CRUSHED STONE TAMPED FIRM AND EVEN. SEPARATE TOPSOIL DURING EXCAVATION. FINAL LAYER OR DIRT (12" MINIMUM) TO BE TOPSOIL. TRENCHES TO BE AT LEAST 18" WIDER THAN PIPE WITH BATTER BOARDS PLACED EVERY 25'. BACKFILLING SHALL BE DONE TO EXCLUDE USE OF ROCK OR STONE ABOVE SAND OR CRUSHED STONE.

3.3 CUTTING AND PATCHING
A. REPAIR OR REPLACE ROUTINE DAMAGE CAUSED BY CUTTING IN PERFORMANCE OF CONTRACT.
B. CORRECT UNNECESSARY DAMAGE CAUSED DUE TO INSTALLATION OF MECHANICAL WORK.
C. PERFORM REPAIRS WITH MATERIALS WHICH MATCH EXISTING AND INSTALL IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THESE SPECIFICATIONS OR THE BEST STANDARDS OF THE INDUSTRY.

3.4 CONNECTION TO EQUIPMENT
A. CONNECT OR INSTALL EQUIPMENT SHOWN ON MECHANICAL DRAWINGS THAT REQUIRE MECHANICAL HOOKUPS.

3.5 SERVICE OF SYSTEM
A. IF EQUIPMENT IS PLACED IN SERVICE PRIOR TO ACCEPTANCE OF THE PROJECT, OPERATE EQUIPMENT STRICTLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INSTALL NEW FILTERS IN EQUIPMENT PRIOR TO OWNER OCCUPYING BUILDING
B. EMPLOY COMPETENT, QUALIFIED PERSONNEL IN OPERATION OF THE EQUIPMENT.
C. PROVIDE FOR PROPER OPERATION AND CLEANLINESS.
D. OPEN UP EQUIPMENT FOR INSPECTION AS DIRECTED BY THE SUPERINTENDENT.
E. LUBRICATE EQUIPMENT AND PERFORM SUCH OTHER MAINTENANCE AS REQUIRED TO PLACE IT IN FIRST CLASS OPERATING CONDITION.
F. DURING MANUFACTURING DUCT OPENINGS AND MECHANICAL EQUIPMENT SHALL BE PROTECTED THROUGH SHIPMENT AND START UP TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS ENTERING THE SYSTEM.

END OF SECTION

SECTION 2
HEATING, VENTILATION AND AIR CONDITIONING

PART 1 – GENERAL

1.1 RELATED DOCUMENTS
A. REFER TO DRAWINGS AND CONTRACT FOR MATERIALS FURNISHED BY OWNER, INSTALLED BY CONTRACTOR OR FURNISHED AND INSTALLED BY OWNER.

1.2 SCOPE OF WORK
A. FURNISH ALL LABOR, SUPERVISION, AND EQUIPMENT ( UNLESS EQUIPMENT IS SPECIFICALLY NOTED AS 'OWNER FURNISHED' ) FOR THE COMPLETE INSTALLATION OF HEATING, VENTILATION, AND AIR CONDITIONING SYSTEM TOGETHER WITH ALL NECESSARY AUXILIARIES AND APPURTENANCES.

1.3 QUALITY ASSURANCE
A. MANUFACTURER'S QUALIFICATIONS – INSTALL PACKAGED UNITS, AS INDICATED IN THE DRAWINGS, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS. PROVIDE RELATED PRODUCTS AND ACCESSORIES FROM ONE MANUFACTURER. STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION PROTECTING FROM DIRT, MOISTURE, CONTAMINANTS, AND WEATHER.
B. CODES AND STANDARDS – PERFORM ALL INSTALLATION IN ACCORDANCE WITH THE LATEST STANDARDS AS RECOGNIZED BY ASHRAE, SMACNA AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
C. WORKMANSHIP – EXPERIENCED, WELL – TRAINED WORKERS, COMPETENT TO COMPLETE THE WORK AS SPECIFIED, SHALL PERFORM LABOR IN CONFORMANCE WITH GENERALLY ACCEPTED TRADE STANDARDS. INSTALL ALL EQUIPMENT SQUARE AND PLUMB ALLOWING ACCESS FOR PROPER OPERATION, ADJUSTMENT AND SERVICE.

1.4 STRUCTURAL AND SPACE CONDITIONS
A. ALL WORK SHALL AVOID OBSTRUCTIONS AND INTERFERENCE WITH OTHER TRADES, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR AND FREE.

1.5 VIBRATION AND NOSE
A. INSTALL EACH OF THE VARIOUS PIECES OF EQUIPMENT TO OPERATE WITHOUT OBJECTIONABLE VIBRATION OR NOISE.

1.6 CUTTING AND PATCHING
A. CUTTING OR PATCHING NECESSARY TO PERMIT THE INSTALLATION OF ANY WORK UNDER THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THIS TRADE. CUTTING AND PATCHING SHALL BE COORDINATED WITH OTHER TRADES SO AS NOT TO IMPACT OTHER WORK

1.7 BALANCING AND TESTING
A. TEST AND BALANCE SHALL BE PERFORMED BY A NATIONALLY QUALIFIED TEST AND BALANCE COMPANY. BALANCE COMPANY SHALL BE AN NEBB COMPANY.
B. CONTRACTOR SHALL COORDINATE TESTING WITH THE TESTING AND BALANCE COMPANY. ALL SYSTEMS SHALL BE FULLY OPERATIONAL PRIOR TO COMMENCEMENT OF TESTING. CORRECT ALL DEFICIENCIES NOTED IN THE TEST AND BALANCE REPORT WITHIN THREE DAYS OR PRIOR TO ACCEPTANCE OF THE PROJECT.
C. ASSUME RESPONSIBILITY FOR CORRECTING ALL ITEMS DETERMINED TO BE THE RESULT OF IMPROPER OR INCOMPLETE INSTALLATION. EXTRA TESTING REQUIRED DUE TO SUCH DEFICIENCIES WILL BE AT CONTRACTOR'S EXPENSE.
D. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEST REPORTS TO THE LOCAL BUILDING AND HEALTH DEPARTMENTS AS REQUIRED FOR CERTIFICATE OF OCCUPANCY.
E. OUTSIDE AIR SETTING ON A HVAC UNIT SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED COMPANY. COMPANY SHALL BE AN NEBB COMPANY

PART 2 – PRODUCTS

2.1 AIR CONDITIONING UNITS, FANS AND AIR DEVICES
A. SHALL BE AS INDICATED ON THE DRAWINGS.

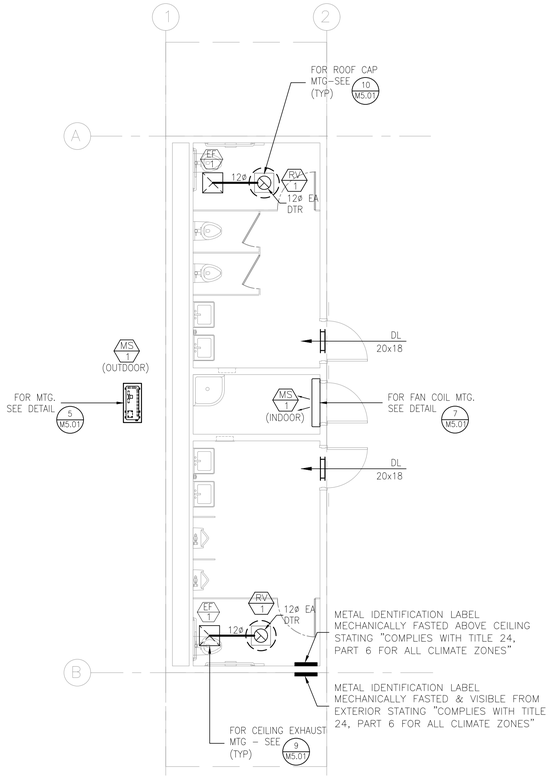
2.2 DUCTWORK
A. FABRICATION AND INSTALLATION, GENERAL – EXCEPT AS OTHERWISE INDICATED, FABRICATE AND INSTALL RECTANGULAR AND ROUND DUCTS IN ACCORDANCE WITH 2019 CMC CHAPTER 6 DUCT SYSTEMS. CONFORM TO THE REFERENCED SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DUCTS. AN APPROVED FLEXIBLE DUCT MAY BE USED FOR THE LAST 5 FT CONNECTION TO REGISTERS.
B. DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALL CONNECTIONS BETWEEN HVAC EQUIPMENT, PLENUMS AND DUCTS SHALL BE SEALED USING UL 181 TAPE OR MASTIC. HORIZONTAL FLEX DUCTS SHALL BE SUPPORTED AT A MAX. 4 FT. INTERVALS W/ HANGING STRAPS A MIN. 1–1/2" WIDE. FLEX DUCTS MUST BE PULLED TIGHT W/ A MAX. SAG OF 1/2" PER FOOT OF HORIZONTAL RUN. FLEX DUCTS SHALL USE A DRAW–BAND TO ATTACH THE INNER CORE TO A METAL COLLAR. FLEX DUCTS SHALL NOT BE KINKED OR CRUSHED.
C. FOR ROOF MOUNTED HVAC UNITS A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT. MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND THE CURB. THE SUPPLY AND RETURN DUCTS SHALL BE ATTACHED TO THE CURB AND MASTIC SHALL BE USED TO SEAL THE DUCTS TO THE CURB.
D. THE SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALIGN WITH THE HVAC UNIT.

2.3 DUCT ACCESS PANELS AND DOORS
A. IN SHEET METAL WORK, HOLLOW CORE DOUBLE CONSTRUCTION OF SAME OR HEAVIER GAGE MATERIAL AS DUCT IN WHICH INSTALLED, PRODUCTS BY CESCO, VENT PRODUCTS, AIR BALANCE, OR EQUIVALENT.
1. PROVIDE VENTLOK OR APPROVED HINGES AND LATCHES ON ALL DOORS; 100 SERIES HINGES AND LATCHES ON LOW PRESSURE SYSTEM DOORS UP TO 18" MAXIMUM DIMENSION, 200 SERIES ON LARGER LOW PRESSURE SYSTEM DOORS AND 333 SERIES ON HIGH PRESSURE SYSTEMS.
2. CONSTRUCT DOORS UP TO 18" MAXIMUM DIMENSION WITH ONE INCH OVERLAP FIT AND GASKET WITH 3/4" BY 1/8" SPONGE RUBBER, FIT LARGER DOORS AGAIN 1–1/2" BY 1/8" FLAT STOCK OR ANGLE FRAME AND GASKET WITH 3/4" BY 1/8" SPONGE RUBBER OR FELT
3. DOOR SWING TO BE OPPOSITE OF AIRFLOW.

2.4 DUCTWORK SPECIALTIES
A. VOLUME AND SPLITTER DAMPERS
1. GALVANIZED SHEET METAL BLADE AND FRAME WITH VENTFABRICE INC. VENTLOK OPERATING HARDWARE.
2. FOR ACCESSIBLE DAMPERS, PROVIDE #641 SELF – LOCKING DIAL REGULATORS AND #644 SELF – LOCKING DIAL REGULATORS FOR INSULATED DUCTWORK, #637 SQUARE END BEARING, AND #635 SPRING END BEARING, AS APPLICABLE
3. FOR INACCESSIBLE DAMPERS, PROVIDE #666 OR #667 CONCEALED LOCKING DAMPER REGULATOR WITH BEARING AS ABOVE. FOR STATIC PRESSURES ABOVE 3" W.G., PROVIDE #640 HIVEL DIAL REGULATOR AND #609 HIVEL END BEARING FOR ACCESSIBLE DAMPERS.
B. MULTI – LOUVER VOLUME DAMPERS
1. 16 – GAUGE GALVANIZED STEEL FRAME. OPPOSED, 6" WIDE, 16 – GAUGE GALVANIZED STEEL BLADES. CONCEALED LINKAGE IN FRAME
2. TITUS #AC – 35 – B, RUSKIN #CD35/ DBO OR EQUAL
C. FLEXIBLE CONNECTIONS
1. PROVIDE FLEXIBLE CONNECTORS AT THE DISCHARGE AND INLET OF FANS, AIR HANDLERS, ROTATING MECHANICAL EQUIPMENT, AND WHERE SHOWN AN THE DRAWINGS FOR PROPER VIBRATION ISOLATION.
2. NEOPRENE IMPREGNATED GLASS CLOTH WITH 24 – GAUGE GALVANIZED METAL FRAME. MINIMUM DIMENSIONS – 3" METAL, 3" FABRIC, 3" METAL.
3. DURO DYNE #MFN4, VENT FABRICS #VENTGLAS, Q INDUSTRIES, CONSOLIDATED KINETICS, ELGEN, OR EQUAL.
D. BACKDRAFT DAMPERS
1. PROVIDE COUNTERWEIGHT TYPE COMPLETE WITH FRAME, END BEARING, COUNTERBALANCE ASSEMBLY, BLADES, AND LINKAGE.
2. INSTALL AT OUTSIDE AIR INTAKE, EXHAUST OUTLETS, AND WHERE SHOWN ON DRAWINGS.
3. PACIFIC AIR PRODUCTS #PRD – 100AL, RUSKIN #CBS – 7 OR EQUAL BY AMERICAN WARMING. OR VENT PRODUCTS.
E. TURNING VANES
1. PROVIDE TURNING VANES AT ALL 90° AND 45° SQUARE ELBOWS. TURNING VANES SHALL BE DOUBLE WALL AIR FOIL TYPE CONSTRUCTED AND INSTALLED AS PER SMACNA.

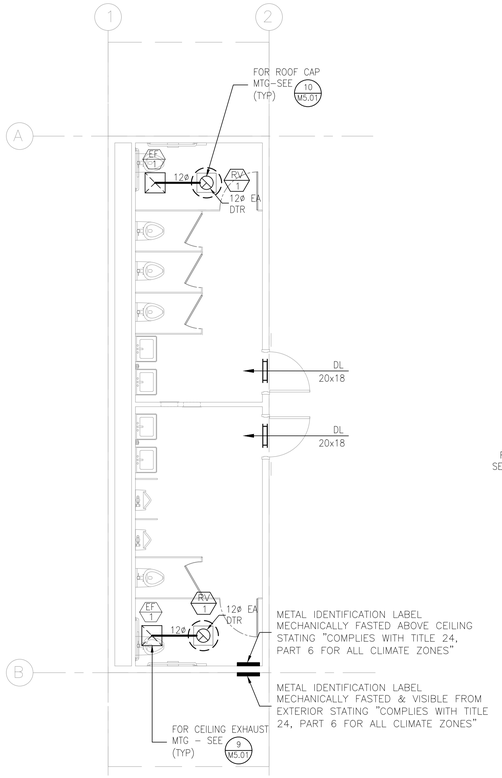
2.5 DUCT INSULATION
A. ACCEPTABLE MANUFACTURERS: PROVIDE PRODUCTS OF THE FOLLOWING MANUFACTURES, COMPLYING WITH SPECIFIED REQUIREMENTS. EQUIVALENT PRODUCTS OF OTHER MANUFACTURERS WILL BE CONSIDERED.
1. OWENS – CORNING FIBERGLAS CORP.
2. MANVILLE PRODUCTS CORP.
3. CERTAINTEED CORP.
B. ALL INSULATION MATERIAL SHALL COMPLY WITH APPLICABLE ENERGY CONSERVATION REGULATION FOR PROJECT LOCATION.
C. PROVIDE COMPOSITE MECHANICAL INSULATION (INSULATION, JACKET, COVERINGS, SEALERS, MASTICS, AND ADHESIVES) WITH FLAME – SPEED INDEX OF 25 OR LESS, AND SMOKE – DEVELOPED INDEX OF 50 OR LESS, AS TESTED BY ASTM E84 (NFPA 255) METHOD.
D. PROVIDE STAPLES, BANDS, WIRES, TAPE, ANCHORS, CORNER ANGLES AND SIMILAR ACCESSORIES AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATIONS INDICATED.
E. PROVIDE CEMENTS, ADHESIVES, COATINGS, SEALERS, PROTECTIVE FINISHES, AND SIMILAR COMPOUNDS AS RECOMMENDED BY INSULATION MANUFACTURER FOR APPLICATIONS INDICATED.

2.6 REFRIGRANT PIPING
A. REFRIGERANT PIPING TO BE COPPER SEAMLESS, VACUUM PACKED TUBING.
B. ALL SUCTION LINES TO SLOPE BACK TOWARDS CONDENSING UNIT.
C. ALL SUCTION LINES HEADING UP TOWARDS CONDENSING UNIT SHALL HAVE A 'P' TRAP.
D. PROVIDE SIGHT GLASS AND FILTER DRIER ON LIQUID LINES AT CONDENSING UNITS.
E. ALL REFRIGERANT PIPING UNDERGROUND TO BE CONTAINED IN A PVC SLEEVE.
F. REFRIGERANT PI



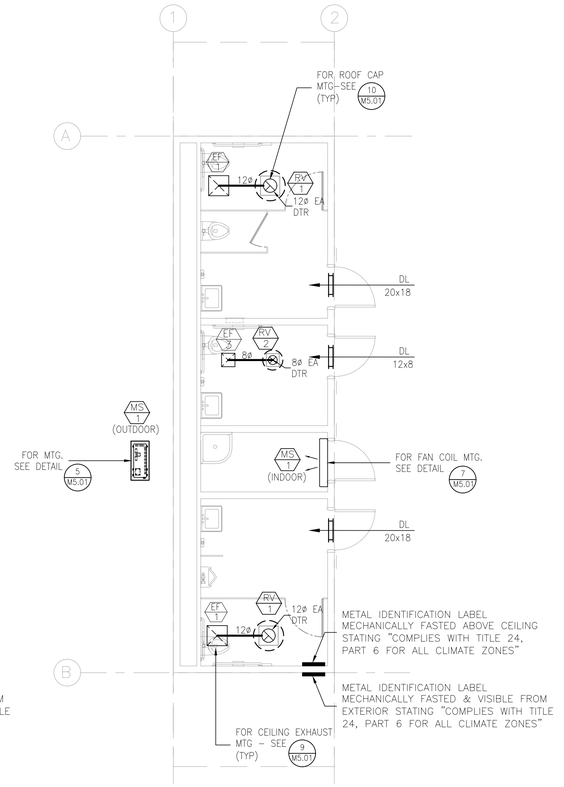

## 1 FLOOR PLAN - 1M-RR+JAN

SCALE: 3/16" = 1'-0"




## 2 FLOOR PLAN - 1M-RR

SCALE: 3/16" = 1'-0"




## 3 FLOOR PLAN - 1M-RR+JAN

SCALE: 3/16" = 1'-0"

**ATTACHMENT 3: Mechanical Equipment List**

This attachment summarizes all the HVAC equipment and controls required For Each Size Modular Building.

If every classroom was the same size and every HVAC system was them same only one column would be filled out.

If every classroom was the same size and multiple types of HVAC systems wanted to be used then a column would be filled out for each type of HVAC system.

Indicate NA for all non-applicable boxes.

| List Each Size Modular Building (Example 24X30, 36X40) | 2M 40x24 | 3M 40x36 | 2M w/ WR (5M) 40x60 | Responsible for programing/commissioning (builder or HVAC contractor) |
|---|---|---|---|---|
| Equipment Type (Package Vertical, Split, rooftop etc.) | 1- Split HP 4 Tons<br>2- Package Vert. 4 Tons<br>3- Package Vert. 4 Tons<br>4- Rooftop Gas/Ele. 4 Tons<br>5- Rooftop HP 4 Tons<br>6- Split Gas 4 Tons | 1- Split HP 5 Tons<br>2- Package Vert. 5 Tons<br>3- Package Vert. 5 Tons<br>4- Rooftop Gas/Ele. 5 Tons<br>5- Rooftop HP 5 Tons<br>6- Split Gas 5 Tons | 1- Split HP 5 Tons<br>4- Rooftop Gas/Ele. 5 Tons<br>5- Rooftop HP 5 Tons<br>6- Split Gas 5 Tons | NA |
| **HVAC Equipment**<br>Make and Model<br>Equipment ID on Plans | 1- Day & Night:<br>NXH648 & FXM648<br>ID: HP/1 & FC/1<br>2- Bard: W48HC<br>ID: PHP/1<br>3- Bard: I48H<br>ID: PHP/3<br>4- Day & Night: RGW048<br>ID: AC/1<br>5- Day & Night: RHH048<br>ID: AC/3<br>6- Trane:<br>4TTA4048 & S9V28080<br>ID: CU/1 & F/1 | 1- Day & Night:<br>NXH660 & FEM4X60<br>ID: HP/2 & FC/2<br>2- Bard: W60HC<br>ID: PHP/2<br>3- Bard: I60H<br>ID: PHP/4<br>4- Day & Night: RGW060<br>ID: AC/2<br>5- Day & Night: RHH060<br>ID: AC/4<br>6- Trane:<br>4TTA4060 & S9V2B120<br>ID: CU/2 & F/2 | 1- Day & Night:<br>NXH660 & FEM4X60<br>ID: HP/2 & FC/2<br>4- Day & Night: RGW060<br>ID: AC/2<br>5- Day & Night: RHH060<br>ID: AC/4<br>6- Trane:<br>4TTA6060 & S9V2B120<br>ID: CU/2 & F/2 | NA |
| **Equipment Size**<br>Heating<br>Cooling | 1- H: 45,000 BTU @ 47°F<br>H: 29,400 BTU @ 17°F<br>C: 47,500 BTU<br>2- H: 41,378 BTU @ 47°F<br>H: 25,135 BTU @ 17°F<br>C: 47,500 BTU<br>3- H: 44,500 BTU<br>C: 47,000 BTU<br>4- H: 65,000 BTU<br>C: 47,000 BTU<br>5- H: 46,000 BTU @ 47°F<br>H: 23,800 BTU @ 17°F<br>C: 47,000 BTU<br>6- H: 89,000 BTU<br>C: 45,621 BTU | 1- H: 53,500 BTU @ 47°F<br>H: 35,200 BTU @ 17°F<br>C: 55,000 BTU<br>2- H: 50,712 BTU @ 47°F<br>H: 33,349 BTU @ 17°F<br>C: 54,500 BTU<br>3- H: 54,000 BTU<br>C: 54,000 BTU<br>4- H: 65,000 BTU<br>C: 60,000 BTU<br>5- H: 55,000 BTU @ 47°F<br>H: 28,600 BTU @ 17°F<br>C:58,500 BTU<br>6- H: 120,000 BTU<br>C: 57,120 BTU | 1- H: 53,500 BTU @ 47°F<br>H: 35,200 BTU @ 17°F<br>C: 55,000 BTU<br>4- H: 65,000 BTU<br>C: 60,000 BTU<br>H: 55,000 BTU @ 47°F<br>H: 28,600 BTU @ 17°F<br>C:58,500 BTU<br>6- H: 120,000 BTU<br>C: 57,120 BTU | NA |
| **HVAC Equipment Efficiency**<br>Cooling<br>Heating<br>Phase | 1- SEER: 15 - EER: 12.5<br>COP: 3.84<br>PHASE: 208/230-3ϕ<br>2- EER: 11<br>COP: 3.3<br>PHASE: 208/230-3ϕ<br>3- EER: 12<br>COP: 3.7<br>PHASE: 208/230-3ϕ<br>4- SEER: 16 - EER: 12<br>COP: N/A<br>PHASE: 208/230-3ϕ | 1- SEER: 14.5 - EER: 11.5<br>COP: 3.84<br>PHASE: 208/230-3ϕ<br>2- EER: 11<br>COP: 3.3<br>PHASE: 208/230-3ϕ<br>3- EER: 11.2<br>COP: 3.6<br>PHASE: 208/230-3ϕ<br>4- SEER: 16 - EER: 12.5<br>COP: N/A<br>PHASE: 208/230-3ϕ | 1- SEER: 14.5 - EER: 11.5<br>COP: 3.84<br>PHASE: 208/230-3ϕ<br>4- SEER: 16 - EER: 12.5<br>COP: N/A<br>PHASE: 208/230-3ϕ<br>5- SEER: 15 - EER: 11.7<br>COP: N/A<br>PHASE: 208/230-3ϕ<br>6- SEER: 14.5 - EER: 11.7<br>COP: N/A<br>PHASE: 208/230-3ϕ | NA |
| **Indoor/Blower Fan**<br>BHP/HP<br>CFM @ at ? inch WC | 1- BHP: N/A - HP: 3/4<br>CFM: 1580 @ .6" WC.<br>2- BHP: N/A - HP: 1/3<br>CFM: 1360 @ .5" WC.<br>3- BHP: N/A - HP: 1/2<br>CFM: 1500 @ .5" WC.<br>4- BHP: 0.68 - HP: 1/4<br>CFM: 1600 @ .6" WC.<br>5- BHP: 0.66 - HP: 1/4<br>CFM: 1600 @ .6" WC.<br>6- BHP: 0.2 - HP: 1/4<br>CFM: 1350 @ .7" WC. | 1- BHP: N/A - HP: 3/4<br>CFM: 1740 @ .6" WC.<br>2- BHP: N/A - HP: 1/2<br>CFM: 1820 @ .5" WC.<br>3- BHP: N/A - HP: 3/4<br>CFM: 1700 @ .5" WC.<br>4- BHP: 0.86 - HP: 1/4<br>CFM: 2000 @ .6" WC.<br>5- BHP: 1.0 - HP: 1/4<br>CFM: 2000 @ .6" WC.<br>6- BHP: 0.2 - HP: 1/4<br>CFM: 1590 @ .7" WC. | 1- BHP: N/A - HP: 3/4<br>CFM: 1740 @ .6" WC.<br>4- BHP: 0.86 - HP: 1/4<br>CFM: 2000 @ .6" WC.<br>5- BHP: 1.0 - HP: 1/4<br>CFM: 2000 @ .6" WC.<br>6- BHP: 0.2 - HP: 1/4<br>CFM: 1590 @ .7" WC. | NA |
| **Strip Heating**<br>Maximum allowed or Not Allowed if not modeled | 1- 3.8 KW<br>2- 6 KW<br>3- 6 KW<br>4- N/A<br>5- 4.9 KW<br>6- N/A | 1- 3.8 KW<br>2- 9 KW<br>3- 6 KW<br>4- N/A<br>5- 4.9 KW<br>6- N/A | 1- 3.8 KW<br>4- N/A<br>5- 4.9KW<br>6- N/A | NA |
| **Thermostat (Sensor)**<br>Make and Model<br>Setback – § 110.2(c)<br>Heat Pumps – § 110.2(b) | ALL- Honeywell T6 programmable thermostat | ALL- Honeywell T6 programmable thermostat | ALL- Honeywell T6 programmable thermostat | JTS - Builder Required Acceptance Test NRCA-MCH-03-A |
| **Shut-off and Reset**<br>Make and Model<br>Occupancy Sensor or 4 hr override – § 120.2(e) | ALL- Honeywell T6 programmed w/ capability of bypass & override functions | ALL- Honeywell T6 programmed w/ capability of bypass & override functions | ALL- Honeywell T6 programmed w/ capability of bypass & override functions | NA |
| **Economizer**<br>Equipment<br>Make and Model – § 140.4(e) | 1- N/A<br>2- N/A<br>3- N/A<br>4- N/A<br>5- N/A<br>6- N/A | 1 & 6 - MICRMETL #MB-GP2OCA-0YDB<br>2 & 5 - FACTORY INSTALLED VENT PACKAGE PER UNIT SCHEDULE NOMENCLATURE ECONOMIZER DESIGNATION | 1 & 6- MICRMETL #MB-GP2OCA-0YDB<br>4 & 5 - FACTORY INSTALLED VENT PACKAGE PER UNIT SCHEDULE NOMENCLATURE ECONOMIZER DESIGNATION | JTS - Builder Required Acceptance Test NRCA-MCH-02-A and 05-A |
| **Economizer**<br>Controls<br>Make and Model – § 140.4(e) | 1- N/A<br>2- N/A<br>3- N/A<br>4- N/A<br>5- N/A<br>6- N/A | 1- BELIMO #ZIP ECON<br>2- JADE #W72<br>3- JADE #W72<br>4- JADE #W7220<br>5- JADE #W7220<br>6- BELIMO #ZIP ECON | 1- BELIMO #ZIP ECON<br>4- JADE #W7220<br>5- JADE #W7220<br>6- BELIMO #ZIP ECON | JTS - Builder Required Acceptance Test NRCA-MCH-02-A and 05-A |
| **Economizer**<br>Fault Detection Software<br>Make and Model - § 120.2(i) | 1- N/A<br>2- N/A<br>3- N/A<br>4- N/A<br>5- N/A<br>6- N/A | 1- BELIMO #ECON-ZIP-BASE<br>2- JADE #W72A<br>3- JADE #W72A<br>4- JADE #W7220A<br>5- JADE #W7220A<br>6- BELIMO #ECON-ZIP-BASE | 1- BELIMO #ECON-ZIP-BASE<br>4- JADE #W7220A<br>5- JADE #W7220A<br>6- BELIMO #ECON-ZIP-BASE | JTS - Builder Required Acceptance Test NRCA-MCH-12-A or 13-A |
| **Outside Air**<br>In CFM from T24 – § 120.1(c)3 | 1- 365 CFM<br>2- 365 CFM<br>3- 365 CFM<br>4- 365 CFM<br>5- 365 CFM<br>6- 365 CFM | 1- 547 CFM<br>2- 547 CFM<br>3- 547 CFM<br>4- 547 CFM<br>5- 547 CFM<br>6- 547 CFM | 1- 417 CFM<br>4- 417 CFM<br>5- 417 CFM<br>6- 417 CFM | JTS - Builder Required Acceptance Test NRCA-MCH-02-A |
| **Ventilation Kit**<br>If economizer is not used specify Make and Model. | ALL- FACTORY INSTALLED VENTILATION PER MANUFACTURER'S RECOMMENDATIONS | 1- N/A<br>2- N/A<br>3- N/A<br>4- N/A<br>5- N/A<br>6- N/A | 1- N/A<br>4- N/A<br>5- N/A<br>6- N/A | JTS - Builder Required Acceptance Test NRCA-MCH-02-A |
| **Demand Control Ventilation**<br>Co2 Sensor with ppm display<br>Make and Model - §120.1(d)4 | 1- HONEYWELL #C7232<br>2- BARD #8403-067<br>3- BARD #8403-067<br>4- HONEYWELL #C7232<br>5- HONEYWELL #C7232<br>6- HONEYWELL #C7232 | 1- HONEYWELL #C7232<br>2- BARD #8403-067<br>3- BARD #8403-067<br>4- HONEYWELL #C7232<br>5- HONEYWELL #C7232<br>6- HONEYWELL #C7232 | 1- HONEYWELL #C7232<br>4- HONEYWELL #C7232<br>5- HONEYWELL #C7232<br>6- HONEYWELL #C7232 | JTS - Builder Required Acceptance Test NRCA-MCH-06-A |
| **Minimum DCV** Outside Air in CFM .15 X conditioned floor area – § 120.1(d)4E | 1- 144 CFM<br>2- 144 CFM<br>3- 144 CFM<br>4- 144 CFM<br>5- 144 CFM<br>6- 144 CFM | 1- 216 CFM<br>2- 216 CFM<br>3- 216 CFM<br>4- 216 CFM<br>5- 216 CFM<br>6- 216 CFM | 1- 165 CFM<br>4- 165 CFM<br>5- 165 CFM<br>6- 216 CFM | JTS - Builder Required Acceptance Test NRCA-MCH-02-A |
| **Demand Shed Thermostat or Controls**<br>Make Model<br>If DDC to the zone § 120.2(h) | 1- N/A<br>2- N/A<br>3- N/A<br>4- N/A<br>5- N/A<br>6- N/A | 1- N/A<br>2- N/A<br>3- N/A<br>4- N/A<br>5- N/A<br>6- N/A | 1- N/A<br>4- N/A<br>5- N/A<br>6- N/A | N/A<br>Required Acceptance Test NRCA-MCH-11-A |

## MECHANICAL NOTES

COVER ALL DUCT OPENINGS AND PROTECT MECHANICAL EQUIPMENT DURING CONSTRUCTION AND SHIPMENT.

FILTERS TO BE 2" MERV 13 MINIMUM REQUIRED ON ALL MECHANICAL SYSTEMS.

ADJUST OUTDOOR AIR REQUIREMENTS BASED ON NUMBER OF OCCUPANTS EXPECTED BY OWNER.

UPON SITE PLACEMENT THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL SYSTEMS AND CONTROLS SHALL BE PROVIDED BY MODULAR BUILDING MANUFACTURER OR GENERAL CONTRACTOR TO THE OWNER.

INTERLOCK EXHAUST FANS W/ LIGHTING – SEE DETAIL 5/E5.04

FOR REGISTER TYPE REFER TO REGISTER SCHEDULE ON SHEET M0.01

ALL SUPPLY DUCTS SHALL BE INSULATED TO A R–4.2 MIN.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119613 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118526 INC:
REVIEWED FOR
SS ☐ FLS ☑ ACS ☑ CC ☑
DATE: 12/14/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required


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Structural Engineering, Inc.
11305 Rancho Bernard RD., Suite 121
San Diego, CA 92127
PHONE (858) 679-1974
FAX (858) 679 1975
REGISTERED PROFESSIONAL ENGINEER RYAN J. OWEN No. S 4[illegible] EXP. 12/31/20 STRUCTURAL STATE OF CALIFORNIA


DRAWN BY: ALV
CHECKED BY: GHA

RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
MECHANICAL PLANS: 1M-RR & 1M-RR+JAN

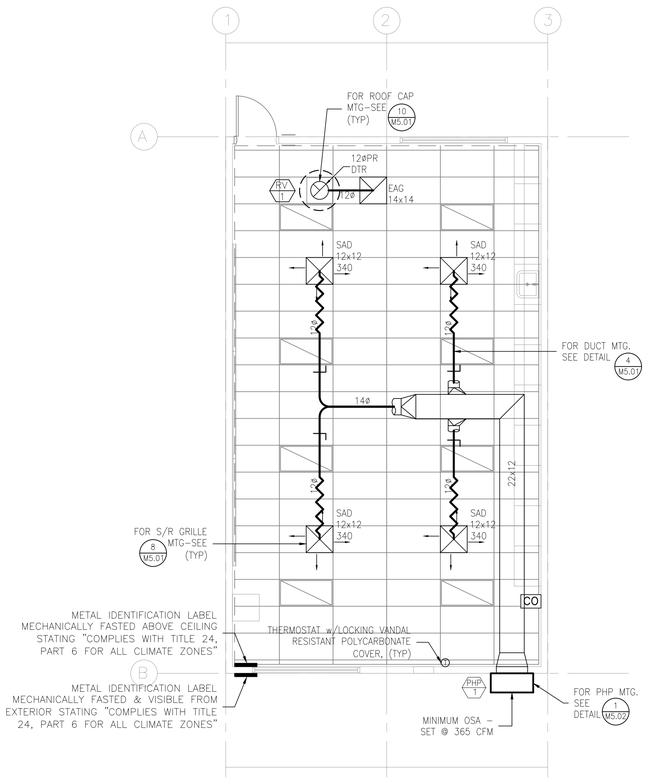
DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
M0.02

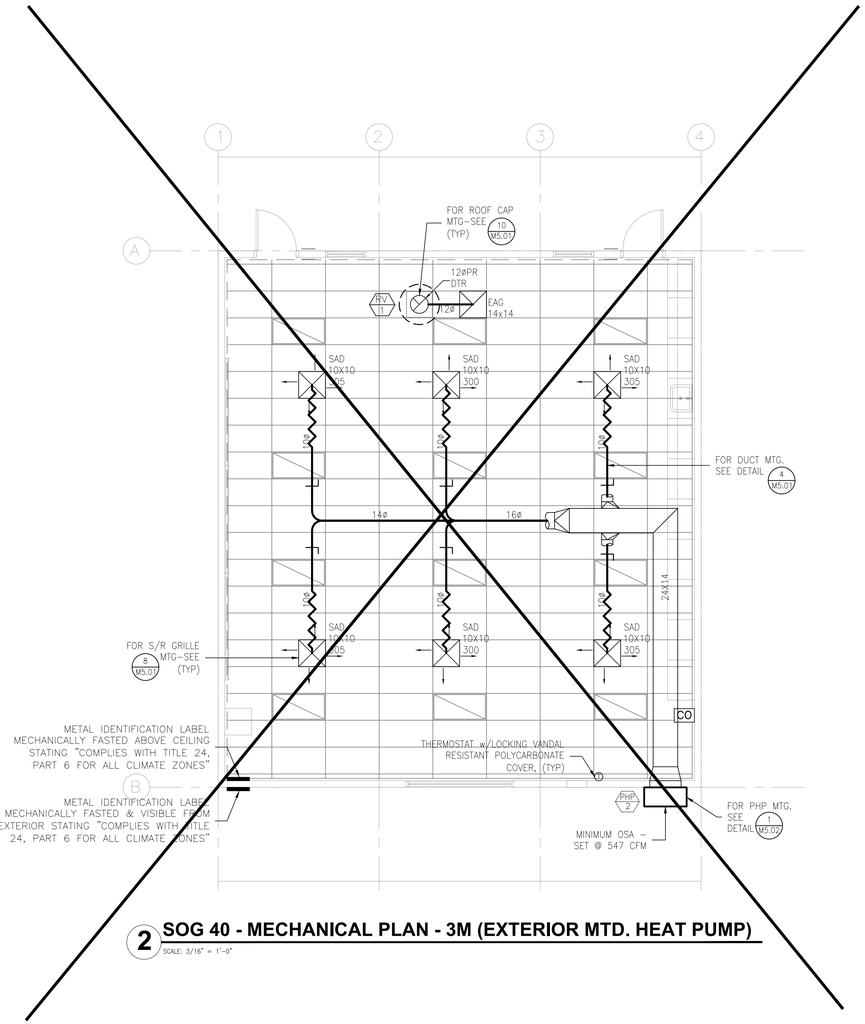

LICENSE #E18218
CANTELMI ENGINEERING
2130 F STREET
BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET
11/8/21


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## 1 SOG 40 - MECHANICAL PLAN - 2M (EXTERIOR MTD. HEAT PUMP)

SCALE: 3/16" = 1'-0"




## 2 SOG 40 - MECHANICAL PLAN - 3M (EXTERIOR MTD. HEAT PUMP)

SCALE: 3/16" = 1'-0"

## MECHANICAL NOTES

COVER ALL DUCT OPENINGS AND PROTECT MECHANICAL EQUIPMENT DURING CONSTRUCTION AND SHIPMENT.

FILTERS TO BE 2" MERV 13 MINIMUM REQUIRED ON ALL MECHANICAL SYSTEMS.

ADJUST OUTDOOR AIR REQUIREMENTS BASED ON NUMBER OF OCCUPANTS EXPECTED BY OWNER.

UPON SITE PLACEMENT THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL SYSTEMS AND CONTROLS SHALL BE PROVIDED BY MODULAR BUILDING MANUFACTURER OR GENERAL CONTRACTOR TO THE OWNER.

INTERLOCK EXHAUST FANS W/ LIGHTING – SEE DETAIL 5/E5.04

FOR REGISTER TYPE REFER TO REGISTER SCHEDULE ON SHEET M0.01

ALL SUPPLY DUCTS SHALL BE INSULATED TO A R-4.2 MIN.

THE CO2 SENSOR MUST BE PLACED IN THE ROOM BETWEEN 3FT. & 6FT. ABOVE THE FLOOR.

THE CO2 SENSOR MUST INCLUDE A DISPLAY SHOWING PPM IN THE SPACE

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REGISTERED PROFESSIONAL ENGINEER
IVAN J. OMETA
No. S 4[illegible]
EXP. [illegible]
STRUCTURAL
STATE OF CALIFORNIA

DRAWN BY: ALV
CHECKED BY: GHA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118526 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CO ☑
DATE: 12/14/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
MECHANICAL PLANS: 2M & 3M
(EXTERIOR MTD. HEAT PUMP)

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
M1.01

LICENSE #E18218
CANTELMI
ENGINEERING

REGISTERED PROFESSIONAL ENGINEER
FRANK J. CANTELMI
MECHANICAL
STATE OF CALIFORNIA

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BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET
11/8/21

file: S:\DWGS2020\JTS\PC SDG-40 C20-111\PC SDG-40 MECH C20-111.dwg date: 11/8/2021 10:31 AM

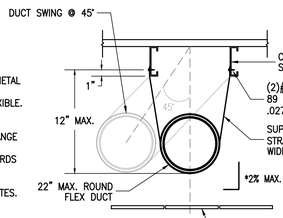
NOTE:

2019 CALIFORNIA MECHANICAL CODE

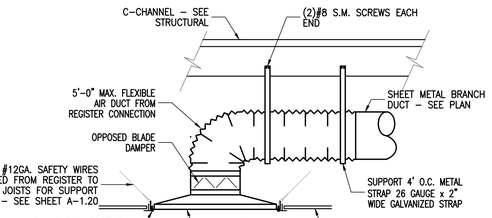
CHAPTER 6, SECTION 602.3
METAL DUCTS, PLENUMS, OR FITTINGS OF METAL SHALL COMPLY WITH SMACNA HVAC CONSTRUCTION STANDARDS METAL AND FLEXIBLE.

CHAPTER 6, SECTION 603.3
DUCTS SHALL BE SUPPORTED AT EACH CHANGE OF DIRECTION AND IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE.

REFER TO SHEET M–0.01 FOR BRACING NOTES.

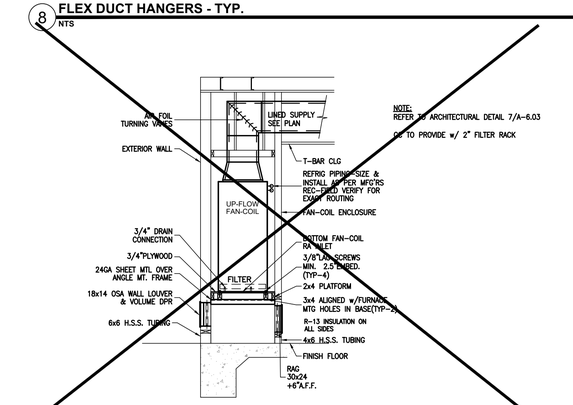



PERPENDICULAR



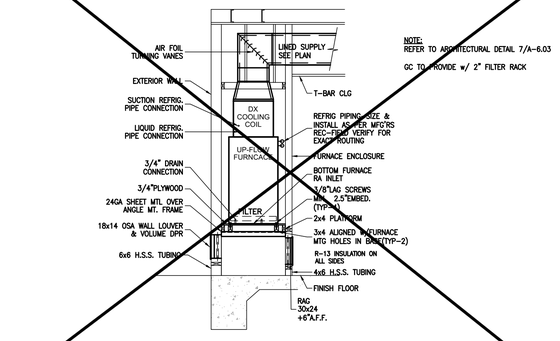

PARALLEL - REGISTER MTG SA & RA - TYP.

## 8 FLEX DUCT HANGERS - TYP.
NTS



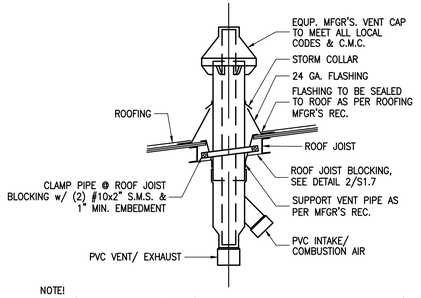

## 12 FAN-COIL VERT. MTG
NTS

TYPICAL FOR: FC-1 & 2




## 13 FURNACE VERT. MTG
NTS

TYPICAL FOR: F-1 & 2



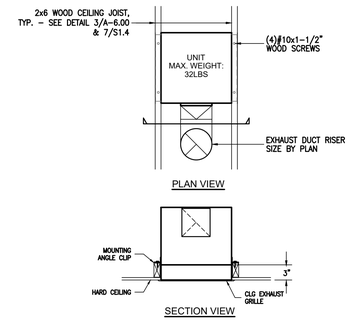

NOTE!
INTAKE/COMBUSTION AIR & VENT/EXHAUST TO BE SIZED & INSTALLED PER MFG'RS RECOMMENDATIONS FOR LENGTH OF RUN, NUMBER OF ELBOWS ETC.

TERMINATION POINT SHALL BE AT LEAST 3 FT ABOVE ANY FORCED AIR INLET INTO THE BLDG LOCATED WITHIN 10 FT; AND SHALL BE 4 FT AWAY FROM THE PROPERTY LINE.

## 14 CONCENTRIC VENT - TYP.
NTS

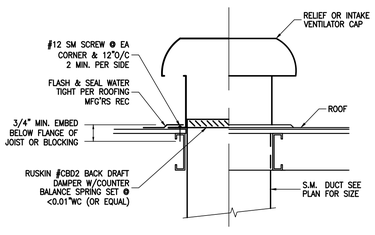
## 9 CLG MTD EXHAUST FAN MTG - TYP.
NTS

TYPICAL FOR: EF-1 THRU EF-5




PLAN VIEW

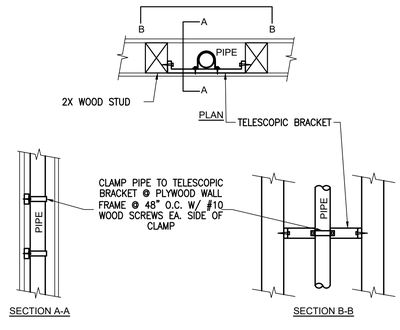
SECTION VIEW




## 10 ROOF VENT CAP MTG. - TYP.
NTS

TYPICAL FOR: RV-1, RV-2 & IV-1

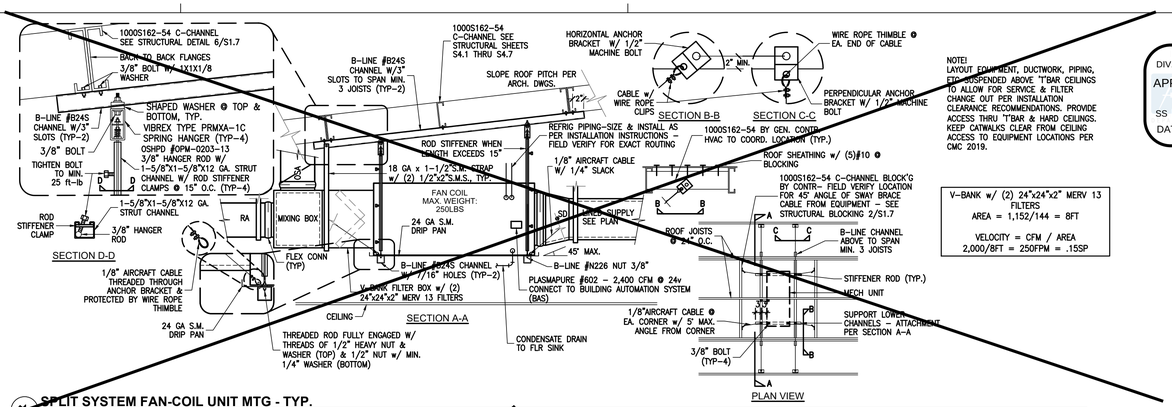
## 11 PIPE MOUNTING
NTS




SECTION A-A

SECTION B-B

## 1 SPLIT SYSTEM FAN-COIL UNIT MTG - TYP.
NTS



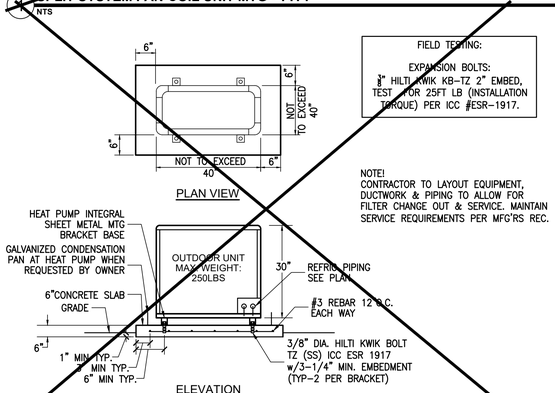

NOTE!
LAYOUT EQUIPMENT, DUCTWORK, PIPING, ETC. SUSPENDED ABOVE "T"BAR CEILINGS TO ALLOW FOR SERVICE & FILTER CHANGE OUT PER INSTALLATION CLEARANCE RECOMMENDATIONS. PROVIDE ACCESS THRU "T"BAR & HARD CEILINGS. KEEP CATWALKS CLEAR FROM CEILING ACCESS TO EQUIPMENT LOCATIONS PER CMC 2019.

V–BANK w/ (2) 24"x24"x2" MERV 13 FILTERS
AREA = 1,152/144 = 8FT

VELOCITY = CFM / AREA
2,000/8FT = 250FPM = .15SP

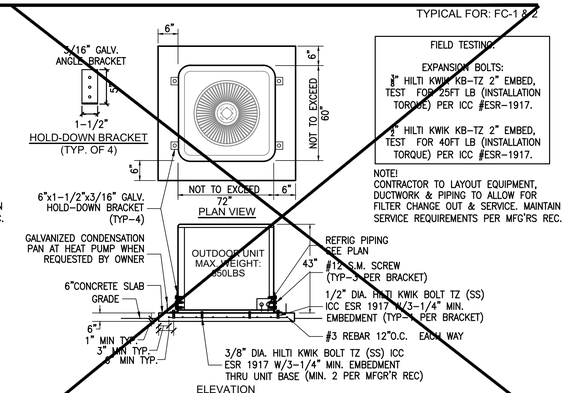
## 5 SPLIT SYSTEM HEAT PUMP UNIT (MINI)-OUTDOOR UNIT MTG - TYP.
NTS

TYPICAL FOR: MS-1



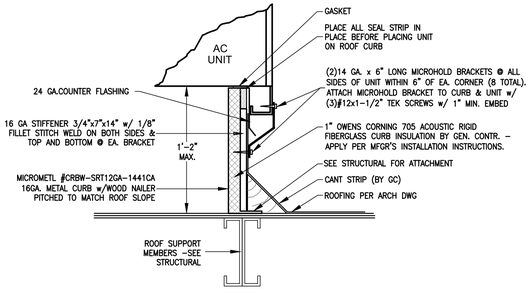

## 2 SPLIT SYSTEM HEAT PUMP UNIT MTG - TYP.
NTS

TYPICAL FOR: HP-1 & 2 / CU-1 & 2



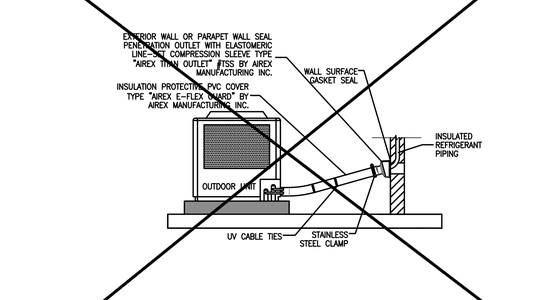

## 7 SPLIT SYSTEM HEAT PUMP UNIT (MINI)-INDOOR UNIT MTG - TYP.
NTS

TYPICAL FOR: MS-1

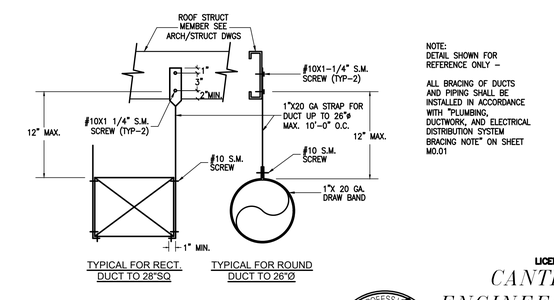



## 6 ROOFTOP PACKAGE (GAS/ELECTRIC OR HEAT PUMPT) UNIT MTG. - TYP.
NTS

TYPICAL FOR: AC-1, 2, 3 & 4




## 3 FLEX. CONNECTION @ BLDG. -TYP.
NTS




NOTE:
DETAIL SHOWN FOR REFERENCE ONLY –

ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH "PLUMBING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE" ON SHEET M0.01

## 4 DUCT HANGER - TYP
NTS

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REGISTERED PROFESSIONAL ENGINEER RYAN J. ORTH No. S-6
EXP. 12/31/22 STRUCTURAL STATE OF CALIFORNIA

DRAWN BY: ALV
CHECKED BY: GHA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118526 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CO ☑
DATE: 12/14/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

# RELOCATABLE SLAB ON GRADE BUILDING MODEL 40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
MECHANICAL DETAILS

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
M5.01

LICENSE #E18218
CANTELMI ENGINEERING


2130 F STREET
BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET


11/8/21

REGISTERED PROFESSIONAL ENGINEER FRANK J. CANTELMI No. 27880 EXP. 12/31/22 MECHANICAL STATE OF CALIFORNIA


file: S:\DWGS2020\JTS\PC SDG-40 C20-111\PC SDG-40 MECH C20-111.dwg date: 11/8/2021 10:32 AM

# EQUIPMENT SCHEDULE

## SPLIT SYSTEM FAN-COIL UNITS ①

FC 1 — DAY & NIGHT #FXM4X4800AL MULTI-POSITION AIR HANDLER – 1580 CFM @ .6"ESP 3/4 HP BLOWER MOTOR – EXPANSION VALVE FOR HEAT PUMP – NOMINAL 3.8 KW ELECTRIC HEAT – SINGLE POINT WIRING KIT 33.5 MCA @ 208/230/1ø 35 AMP MOCP – EXTRA LARGE FILTER KIT w/2" PLEATED MERV 13 FILTERS – OPER. WT. 185 LBS (OR EQUAL) SEE DETAILS 1/M5.01 & 12/M5.01

FC 2 — DAY & NIGHT #FEM4X6000BL MULTI-POSITION AIR HANDLER – 1740 CFM @ .6"ESP 3/4 HP BLOWER MOTOR – EXPANSION VALVE FOR HEAT PUMP – NOMINAL 3.8 KW ELECTRIC HEAT – SINGLE POINT WIRING KIT 33.5 MCA @ 208/230/1ø 35 AMP MOCP – EXTRA LARGE FILTER KIT w/2" PLEATED MERV 13 FILTERS – MICRMETL #MB-GP20CA–DYDB CUBE ULTRA LOW LEAK MIXING BOX w/BELIMO CONTROLS – OPER. WT. 175 LBS (OR EQUAL) SEE DETAILS 1/M5.01 & 12/M5.01

## SPLIT SYSTEM HEAT PUMP UNITS ①

HP 1 — DAY & NIGHT #NXH648AHP100 HEAT PUMP NOM. 4 TON OUTDOOR UNIT – 14.5 SEER – 12.5 EER – NOM. 47,500 BTUH COOLING CAPACITY – LOW AMBIENT KIT FACTORY SUPPLIED CONNECTIONS & ACCESSORIES FOR LONG REFRIG. LINE SET INSTALLED PER MFGR'S REC – 18.3 MCA @ 208/230v/3ϕ, 30 MOCP 240 LBS OPERATE w/FC–1 (OR EQUAL) REFER TO ANCHORAGE DETAIL 2/M5.01

HP 2 — DAY & NIGHT #NXH660AHP100 HEAT PUMP NOM. 5 TON OUTDOOR UNIT – 14.5 SEER 11.5 EER – NOM. 55,000 BTUH COOLING CAPACITY – LOW AMBIENT KIT FACTORY SUPPLIED CONNECTIONS & ACCESSORIES FOR LONG REFRIG. LINE SET INSTALLED PER MFGR'S REC – 22.8 MCA @ 208/230v/3ϕ, 35 MOCP 290 LBS OPERATE w/FC–2 (OR EQUAL) REFER TO ANCHORAGE DETAIL 2/M5.01

## EXTERIOR WALL-MOUNT HEAT PUMP UNITS ②

PHP 1 — BARD #W48H–B06NXXXXE HEAT PUMP NOM. 4 TON – EXTERIOR WALL MTD – 11.0 EER – 1360 CFM @ .5"ESP – R–410A – 6 KW ELECTRIC HEAT KIT – BAROMETRIC FRESH AIR DAMPER – 43 MCA @ 208/230v/3ph, 50 MOCP – SINGLE POINT ELECTRICAL CONNECTION – 2" PLEATED MERV 13 FILTERS – 465 LBS (OR EQUAL) REFER TO MTG DETAIL 1/M5.02

PHP 2 — BARD #W60HC–B09ZNXXXE HEAT PUMP NOM. 5 TON – EXTERIOR WALL MTD – 11.0 EER – 1820 CFM @ .5"ESP – R–410A – 9 KW ELECTRIC HEAT KIT – FACTORY INSTALLED ECONOMIZER w/EXHAUST AIR DAMPER FOR ROOM PRESSURIZATION RELIEF, ENTHALPY & CO2 SENSORS, COMPLETE JADE CONTROLS WITH FDD CAPABILITY, COMPLIES WITH CALIFORNIA TITLE 24, ASHRAE STANDARD 62.1 & 90.1 – 59 MCA @ 208/230v/3ph, 60A MOCP – SINGLE POINT ELECTRICAL CONNECTION – 2" PLEATED MERV 13 FILTERS 605 LBS (OR EQUAL) REFER TO MTG DETAIL 1/M5.02

## INTERIOR WALL-MOUNT HEAT PUMP UNITS ③

PHP 3 — BARD #148H1–B06MNXXXX HEAT PUMP NOM. 4 TON – INTERIOR WALL MTD 12 EER – 1500 CFM @ .5"ESP – R–410A – 6 KW ELECTRIC HEAT KIT WALL SLEEVE – OUTDOOR LOUVER GRILLE – BAROMETRIC FRESH AIR DAMPER 44 MCA @ 208/230v/3ph, 50 MOCP – SINGLE POINT ELECTRICAL CONNECTION 2" PLEATED MERV 13 FILTERS – 1070 LBS (OR EQUAL) REFER TO MTG DETAIL 5/M5.02

PHP 4 — BARD #160H1–B06NNXXXX HEAT PUMP NOM. 5 TON – INTERIOR WALL MTD 11.2 EER 1700 CFM @ .5"ESP – R–410A – 6 KW ELECTRIC HEAT KIT – FACTORY INSTALLED ECONOMIZER w/EXHAUST AIR DAMPER FOR ROOM PRESSURIZATION RELIEF, ENTHALPY & CO2 SENSOR, COMPLETE JADE CONTROLS WITH FDD CAPABILITY, COMPLIES WITH CALIFORNIA TITLE 24,ASHRAE STANDARD 62.1 & 90.1 – 49 MCA @ 208/230v/3ph, 60 MOCP – SINGLE POINT ELECTRICAL CONNECTION – 2" PLEATED MERV 13 FILTERS 1070 LBS (OR EQUAL) REFER TO MTG DETAIL 5/M5.02

## ROOFTOP PACKAGE GAS ELECTRIC UNITS ④

AC 1 — DAY & NIGHT #RGW048HDFABBA SINGLE–PACKAGE ROOFTOP UNIT – NOM. 4 TON ELECTRIC COOLING & GAS HEATING – R–410A – 1600 CFM @ .6"ESP BELT DRIVE 16.0 SEER – 12.5 EER – 65,000 BTUH GAS INPUT, 54,000 BTUH OUTPUT – 30 MCA @ 208/230v/3ph – 40 MOCP – OUTSIDE AIR MANUAL DAMPER & INTAKE HOOD – LOW AMBIENT CONTROLLER – FLUE DEFLECTOR POWERED CONVENIENCE OUTLET – 2" PLEATED MERV 13 FILTERS – FACTORY SLOPED ROOF CURB – 860 LBS (OR EQUAL) SEE DETAIL 6/M5.01

AC 2 — DAY & NIGHT #RGW060HDFWBBAA SINGLE–PACKAGE ROOFTOP UNIT – NOM. 5 TON ELECTRIC COOLING & GAS HEATING – R–410A – 2000 CFM @ .6"ESP BELT DRIVE 16.0 SEER – 12.5 EER – 65,000 BTUH GAS INPUT, 54,000 BTUH OUTPUT – 36 MCA @ 208/230v/3ph – 50 MOCP – ENTHALPY ULTRA LOW LEAK ECONOMIZER w/BAROMETRIC RELIEF, JADE W7220 CONTROLLER WITH FDD CAPABILITY, RETURN AIR MTD CO2 SENSOR, COMPLIES WITH CALIFORNIA TITLE 24, ASHRAE 62.1 & 90.1 LOW AMBIENT CONTROLLER – FLUE DEFLECTOR – POWERED CONVENIENCE OUTLET – 2" PLEATED MERV 13 FILTERS – FACTORY SLOPED ROOF CURB 950 LBS (OR EQUAL) SEE DETAIL 6/M5.01

## ROOFTOP PACKAGE HEAT PUMP UNITS ⑤

AC 3 — DAY & NIGHT #RHH048HOCABBAA SINGLE–PACKAGE ROOFTOP HEAT PUMP UNIT NOM. 4 TON ELECTRIC COOLING – 4.9 KW ELECTRIC HEAT – R–410A – 1600 CFM @ .6"ESP – BELT DRIVE – 15.0 SEER – 12.8 EER – 51 MCA @ 208/230v/3ph – 60 MOCP – SINGLE POINT ELECTRICAL CONNECTION – OUTSIDE AIR MANUAL DAMPER & INTAKE HOOD – LOW AMBIENT CONTROLLER – FLUE DEFLECTOR – POWERED CONVENIENCE OUTLET – 2" PLEATED MERV 13 FILTERS – FACTORY SLOPED ROOF CURB – 920 LBS (OR EQUAL) SEE DETAIL 6/M5.01

AC 4 — DAY & NIGHT #RHH060HOCWBBAA SINGLE–PACKAGE ROOFTOP HEAT PUMP UNIT NOM. 5 TON ELECTRIC COOLING – 4.9 KW ELECTRIC HEAT – R–410A – 2000 CFM @ .6"ESP – BELT DRIVE – 15.0 SEER – 11.7 EER – 54 MCA @ 208/230v/3ph 60 MOCP – SINGLE POINT ELECTRICAL CONNECTION – ENTHALPY ULTRA LOW LEAK ECONOMIZER w/BAROMETRIC RELIEF, JADE W7220 CONTROLLER WITH FDD CAPABILITY, RETURN AIR CO2 SENSOR, COMPLIES WITH CALIFORNIA TITLE 24, ASHRAE 62.1 & 90.1 LOW AMBIENT CONTROLLER – FLUE DEFLECTOR POWERED CONVENIENCE OUTLET – 2" PLEATED MERV 13 FILTERS – FACTORY SLOPED ROOF CURB 940 LBS (OR EQUAL) SEE DETAIL 6/M5.01

## SPLIT SYSTEM FURNACE UNITS ⑥

F 1 — TRANE #S9V2B080U4PSAB UPFLOW GAS FURNACE – 96.0% EFF. 1350 CFM @ .9"ESP .75 HP ECM BLOWER MOTOR – NATURAL GAS 2 STAGE; 80,000 BTUH INPUT, 78,000 BTUH OUTPUT – 10.8 AMPS @ 120v/1ϕ 15 MOCP – 2"FILTER BASE RACK VERTICAL CASED 4 TON DX COOLING COIL w/TXV MATCHED TO CONDENSING UNIT FOR SEER RATING – MERV 13 FILTER KIT – OPER. WT. 205 LBS – SEE DETAIL 13/M5.01

F 2 — TRANE #S9V2D120U5PSAB UPFLOW GAS FURNACE – 96.0% EFF. 1590 CFM @ .9"ESP 1.0 HP ECM BLOWER MOTOR – MATURAL GAS 2 STAGE; 120,000 BTUH INPUT, 116,000 BTUH OUTPUT – 13.9 AMPS @ 120v/1ϕ 15 MOCP 2"FILTER BASE RACK – VERTICAL CASED 5 TON DX COOLING COIL w/TXV MATCHED TO CONDENSING UNIT FOR SEER RATING – MERV 13 FILTER KIT – OPER. WT. 250 LBS – SEE DETAIL 13/M5.01

## SPLIT SYSTEM CONDENSING UNITS ⑥

CU 1 — TRANE #4TTA4048A3000A NOMINAL 4 TON CONDENSING UNIT – R–410A – 14 SEER & 11.7 EER – HIGH & LOW PRESSURE SWITCHES – ANTI SHORT CYCLE KIT – LOW AMBIENT KIT 18.0 MCA @ 208/230/3ϕ, 30 AMP MOCP – 270 LBS (OR EQUAL) – OPERATE w/F–1 – REFER TO ANCHORAGE DETAIL 2/M5.01

CU 2 — TRANE #4TTA4060A3000A NOMINAL 5 TON CONDENSING UNIT – R–410A – 14.5 SEER & 11.7 EER – HIGH & LOW PRESSURE SWITCHES – ANTI SHORT CYCLE KIT – LOW AMBIENT KIT 21.0 MCA @ 208/230/3ϕ, 35 AMP MOCP – 300 LBS (OR EQUAL) – OPERATE w/F–2 – REFER TO ANCHORAGE DETAIL 2/M5.01

## SPLIT SYSTEM HEAT PUMP UNITS (MINI)

MS 1 — MITSUBISHI #MSZGL09NAU1/MUZGL09NAU1 MINI–SPLIT HEAT PUMP SYSTEM WITH WALL MOUNTED EVAPORATOR – NOM. .75 TON – 24.6 SEER, 15.4 EER INDOOR UNIT WALL MOUNTING BRACKET – CONDENSATE PUMP REFRIG PIPING PER MFG'RS INSTALLATION MANUAL – FURNISH FOR COMPLETE OPERATION 9.0 MCA @ 208–230v/1ø, 15 MOCP – WIRED REMOTE CONTROLLER INDOOR UNIT 22 lbs, OUTDOOR UNIT 81 LBS (OR EQUAL)

**NOTE:**

ALL HVAC SYSTEMS TO INTERLOCK WITH OCCUPANCY SENSOR TO PROVIDE MANUAL OVERRIDE ACCESSIBILITY TO OCCUPANTS & ALLOW THEM TO TURN ON HVAC SYSTEM DURING NORMALLY UNOCCUPIED HOURS

## EXHAUST FANS

EF 1 — GREENHECK #SP–A700 CEILING MOUNTED EXHAUST FAN – 500 CFM @.35" SP BACKDRAFT DAMPER – 3.2 AMPS @ 120v – SPEED CONTROLLER MTD. IN FAN 34 LBS – INTERLOCK w/LIGHTING – ALT. COOK FANS (OR EQUAL)

EF 2 — GREENHECK #SP–A900 CEILING MOUNTED EXHAUST FAN – 130 CFM @.38" SP BACKDRAFT DAMPER – .43 AMPS @ 120v – SPEED CONTROLLER MTD. IN FAN 24 LBS – INTERLOCK w/LIGHTING – ALT. COOK FANS (OR EQUAL)

EF 3 — GREENHECK #SP–A110 CEILING MOUNTED EXHAUST FAN – 80 CFM @.25" SP BACKDRAFT DAMPER – .58 AMPS @ 120v – SPEED CONTROLLER MTD. IN FAN 17 LBS – INTERLOCK w/LIGHTING – ALT. COOK FANS (OR EQUAL)

EF 4 — GREENHECK #SP–A300 CEILING MOUNTED EXHAUST FAN – 300 CFM @.38" SP BACKDRAFT DAMPER – 1.34 AMPS @ 120v – SPEED CONTROLLER MTD. IN FAN 24 LBS – INTERLOCK w/LIGHTING – ALT. COOK FANS (OR EQUAL)

EF 5 — GREENHECK #SP–A290 CEILING MOUNTED EXHAUST FAN – 230 CFM @.38" SP BACKDRAFT DAMPER – .72 AMPS @ 120v – SPEED CONTROLLER MTD. IN FAN 24 LBS – INTERLOCK w/LIGHTING – ALT. COOK FANS (OR EQUAL)

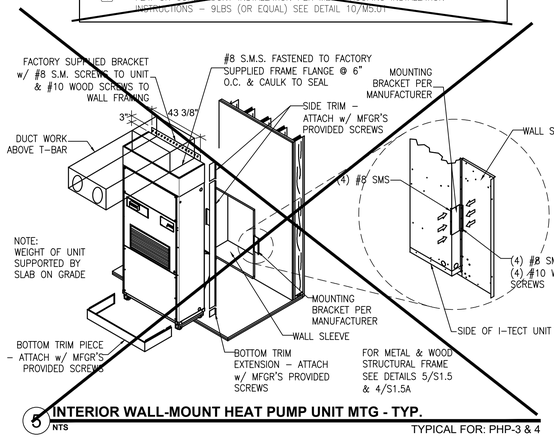
## RELIEF VENTILATOR

RV 1 — BROAN #612 PRESSURE RELIEF VENTILATOR CAP 12"ø – FLASH & SEAL WATER TIGHT WITH FLAT OR CURB MOUNT INSTALLATION PER METAL ROOFING INSTALLATION INSTRUCTIONS – 9LBS (OR EQUAL) SEE DETAIL 10/M5.01

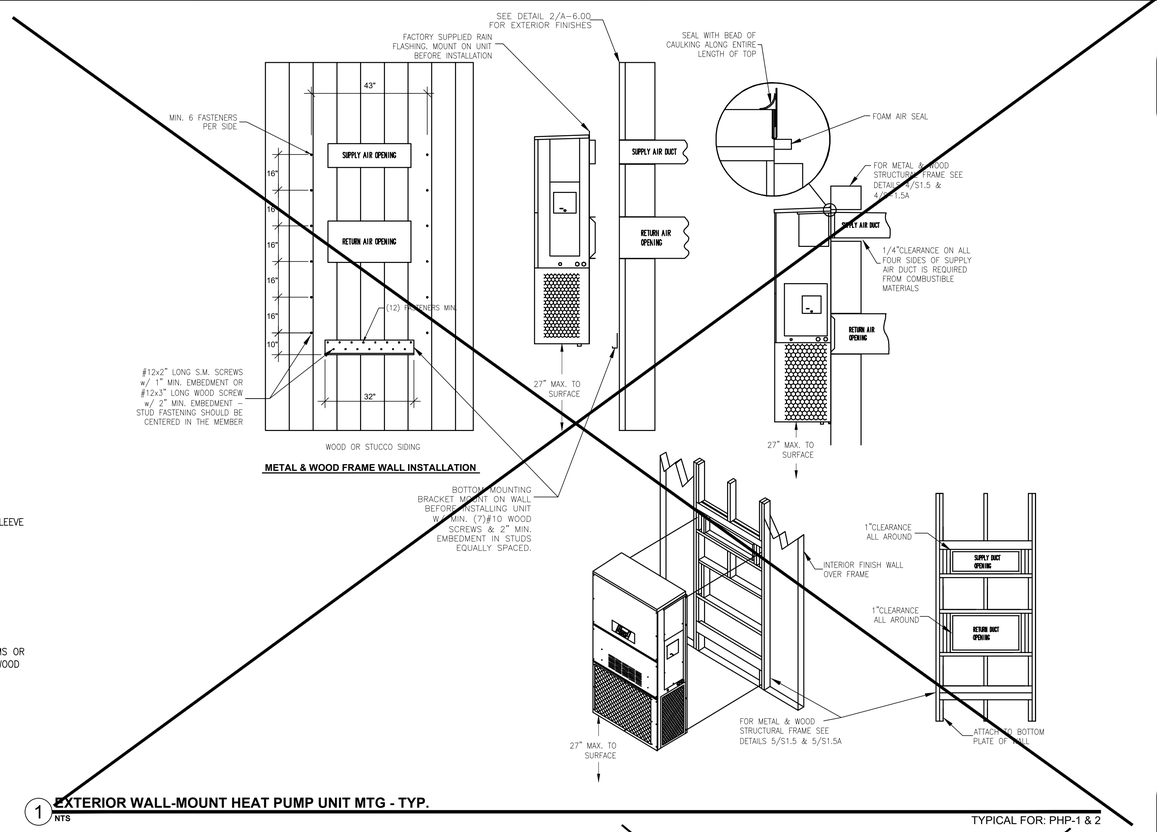
RV 2 — BROAN #611 PRESSURE RELIEF VENTILATOR CAP 8"ø – FLASH & SEAL WATER TIGHT WITH FLAT OR CURB MOUNT INSTALLATION PER METAL ROOFING INSTALLATION INSTRUCTIONS – 7LBS (OR EQUAL) SEE DETAIL 10/M5.01

## INTAKE VENTILATOR

IV 1 — BROAN #612 ROOF CAP 12"ø – FLASH & SEAL WATER TIGHT WITH FLAT OR CURB MOUNT INSTALLATION PER METAL ROOFING INSTALLATION INSTRUCTIONS – 9LBS (OR EQUAL) SEE DETAIL 10/M5.01

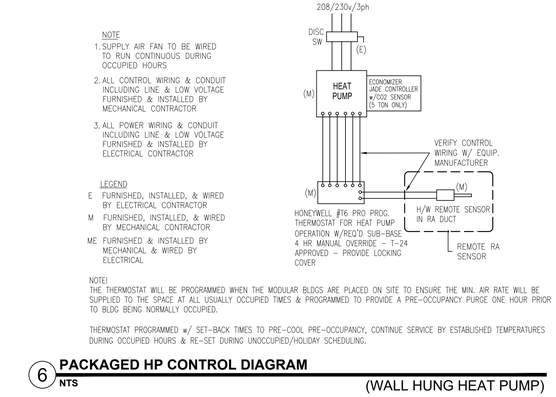



5 **INTERIOR WALL-MOUNT HEAT PUMP UNIT MTG - TYP.** NTS — TYPICAL FOR: PHP-3 & 4

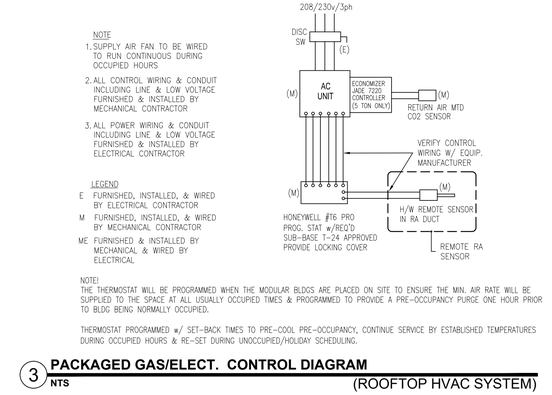



**METAL & WOOD FRAME WALL INSTALLATION**

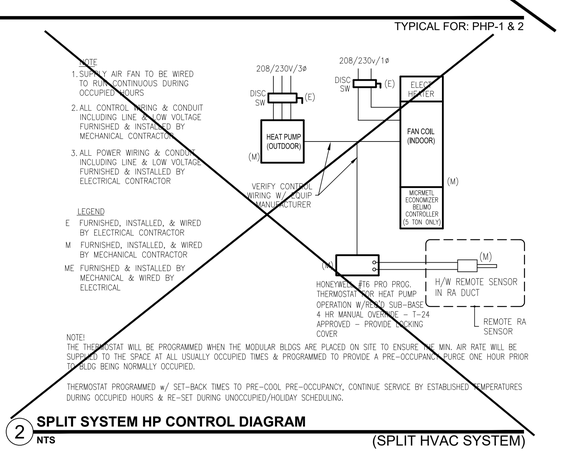
1 **EXTERIOR WALL-MOUNT HEAT PUMP UNIT MTG - TYP.** NTS — TYPICAL FOR: PHP-1 & 2



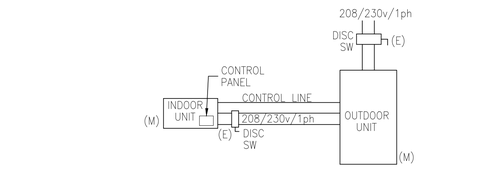

6 **PACKAGED HP CONTROL DIAGRAM** NTS — (WALL HUNG HEAT PUMP)



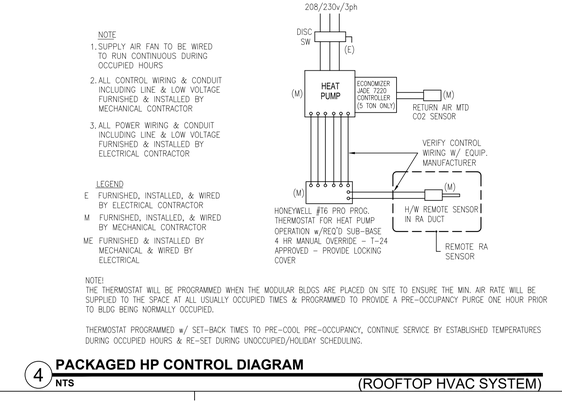

3 **PACKAGED GAS/ELECT. CONTROL DIAGRAM** NTS — (ROOFTOP HVAC SYSTEM)



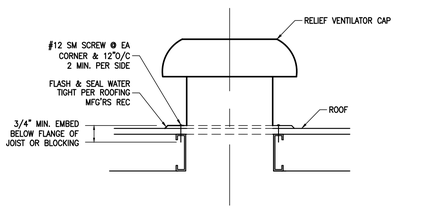

2 **SPLIT SYSTEM HP CONTROL DIAGRAM** NTS — (SPLIT HVAC SYSTEM)




7 **CONTROL DIAGRAM - MINI SPLITS** NTS




4 **PACKAGED HP CONTROL DIAGRAM** NTS — (ROOFTOP HVAC SYSTEM)




8 **ATTIC VENT CAP MTG. - TYP.** NTS — TYPICAL FOR: RV-2

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APP: 02-119613 INC:
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SS ☐ FLS ☑ ACS ☐ CO ☑
DATE: 12/14/2021

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REGISTERED PROFESSIONAL ENGINEER RYAN J. OMO No. S 4677 EXP. 12/31/22 STRUCTURAL STATE OF CALIFORNIA

DRAWN BY: ALV — CHECKED BY: GHA

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

# RELOCATABLE SLAB ON GRADE BUILDING MODEL

40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
MECHANICAL SCHEDULE & DETAILS

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
M5.02


LICENSE #618218
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2130 F STREET
BAKERSFIELD, CA 93301
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Cantelmi@Cantelmi.NET


11/8/21

REGISTERED PROFESSIONAL ENGINEER FRANK J. CANTELMI No. 18218 CIVIL STATE OF CALIFORNIA

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# SYMBOLS

## LIGHT FIXTURES

- CEILING SURFACEMOUNT
- WALL SURFACEMOUNT
- PENDANT MOUNT
- RECESSED DOWNLIGHT
- RECESSED WALLWASH
- RECESSED
- SURFACE
- STRIP UON
- TRACK LIGHT
- DIRECTIONAL FLOOD
- EMERGENCY FIXTURE
- POLE LIGHT
- POLE LIGHT–DECORATIVE
- UPLIGHT–FLUSH IN GRADE
- BOLLARD
- TANDEM–WIRED LAMPS
- UNDERCABINET LIGHT
- WALL SURFACEMOUNT LINEAR TYPE
- PENDANT LINEAR
- RECESSED WALLMOUNT
- WALLPACK
- EMERGENCY WALLPACK
- EXIT LIGHT–WALL
- EXIT LIGHT–CEILING (ARROW INDICATES DIRECTION)
- F# LETTER ADJACENT INDICATES FIXTURE TYPE
- F"E" "E" LETTER ADJACENT INDICATES EMERGENCY FIXTURE TYPE

## POWER/COMM

- SINGLE RECEPT
- DUPLEX RECEPT
- SP SPLIT DUPLEX RECEPT
- DUPLEX–HALF SWITCHED
- DOUBLE DUPLEX
- SPECIAL CONFIGURATION
- FLOORMOUNT 208V, 1ø RECEPT
- DUPLEX–FLOOR OUTLET
- GFI GROUND FAULT CIRCUIT INTERRUPT
- J JUNCTION BOX
- SPECIAL SYSTEM JUNCTION BOX
- HDMI HDMI – J–BOX w/ 1–1/4"C. TO ATTIC SPACE
- DATA – J–BOX w/ 1–1/4"C. TO ATTIC SPACE
- PHONE – J–BOX w/ 1–1/4"C. TO ATTIC SPACE
- PHONE & DATA – J–BOX w/ 1–1/4"C. TO ATTIC SPACE
- TV TV – J–BOX w/ 1–1/4"C. TO ATTIC SPACE
- SAFETY DISCONNECT
- J DROP CORD RECEPT
- Jc ABOVE–CLGMOUNT J–BOX
- TV TV OUTLET–FLOORMOUNT
- TELEPHONE FLOOR OUTLET
- DATA FLOOR OUTLET
- WIRELESS ACCESS POINT IN CEILING
- MOUNT DEVICE ABOVE COUNTER PER ARCHITECTURAL REQUIREMENTS
- +X" SPECIAL PURPOSE OUTDOOR RECPTACLE – MOUNT AT SPECIFIED HEIGHT

## CONDUIT/WIRE

- NEW
- UNDERGROUND
- NEW POWER HOMERUN (3 HOTS & NEUT SHOWN)
- ISOLATED GROUND
- ISOLATED GROUND
- (E) POWER HOMERUUN
- WIRE LINE–CONTINUES
- CONDUIT STUB (W/MARKER)
- VERTICAL CONDUIT RUN
- CONDUIT SEAL
- FLEXIBLE CONNECTION
- LV LOW VOLTAGE
- SURFACEMOUNT RACEWAY
- INDICATES LINE CONTINUES
- CORD W/PLUG

## MISCELLANEOUS

- MOTOR
- T THERMOSTAT +48" A.F.F. TO TOP OF UNIT
- CIRCUIT BREAKER
- FUSIBLE SWITCH
- GROUND
- ø PHASE
- CLOCK
- S CLOCK/SPEAKER COMBINATION
- WALL MOUNTED CLOCK
- PUSHBUTTON
- FLUSHMOUNT PANEL
- SURFACEMOUNT PANEL
- FLUSHMOUNT PANEL
- SURFACEMOUNT PANEL
- DM DAMPER MOTOR
- H HUMIDISTAT
- M MAGNETIC CONTACTOR
- COMBINATION STARTER

## SWITCHES

- $ SPST
- $2 DPST
- $3 3–WAY
- $4 4–WAY
- $D DIMMER
- $T TIMER SWITCH
- $T W/THERMAL OVERLOAD
- $P W/PILOT LIGHT
- $K KEY OPERATED
- $$ DUAL LEVEL SWITCHING
- (a) SWITCHLEG DESIGNATION
- OS OCCUPANCY SENSOR

# ELECTRICAL ABBREVIATIONS

| | |
|---|---|
| A | AMPERE |
| AB | AMP BREAKER |
| ABAND | ABANDONED |
| ABV | ABOVE |
| AC | ALTERNATING CURRENT |
| AC–# | AIR CONDITIONER |
| ADJ | ADJACENT |
| AF | AMP FUSE, AMP FRAME |
| AFF | ABOVE FINISH FLOOR |
| AFG | ABOVE FINISH GRADE |
| AIC | AMPERES INTERRUPTING CAPACITY |
| AI | ALUMINUM |
| AS | AMP SWITCH RATING |
| ATS | AUTOMATIC TIME SWITCH |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AV | AUDIBLE/AUDIO VISUAL |
| AWG | AMERICAN WIRE GAGE |
| BFG | BELOW FINISH GRADE |
| BIL | BASIC IMPULSE LEVEL |
| BLDG | BUILDING |
| C | CONDUIT |
| –C– | CATV CONDUIT |
| CAB'T | CABINET |
| CATV | CABLE TELEVISION |
| CB | CIRCUIT BREAKER, CODE BLUE |
| CBC | CA. BUILDING CODE |
| CEC | CA. ELECTRICAL CODE |
| | CA. ENERGY COMMISSION |
| GF | COMPACT FLUORESCENT |
| CFC | CALIFORNIA FIRE CODE |
| CLG | CEILING |
| CL | CENTER LINE |
| CKT | CIRCUIT |
| CNT'R | CONTRACTOR |
| C.O. | CONDUIT ONLY (W/PULLROPE) |
| COND | CONDUIT, CONDUCTOR |
| CR | CRITICAL BRANCH |
| CSFM | CALIFORNIA SFM |
| CT | CURRENT TRANSFORMER |
| CU | COPPER |
| CU–# | CONDENSING UNIT |
| D | DEPTH |
| DC | DIRECT CURRENT |
| DF | DRINKING FOUNTAIN |
| DIA | DIAMETER |
| DISC | DISCONNECT |
| DIST | DISTRIBUTION |
| DPST | DOUBLE POLE SINGLE THROW |
| DW | DISHWASHER |
| EM | EMERGENCY |
| (E) | EXISTING |
| EA | EACH |
| EB | ELECTRONIC BALLAST |
| EC | ELECTRICAL CONTRACTOR |
| EC–# | EVAPORATIVE COOLER |
| EF–# | EXHAUST FAN |
| EL | EVENING LIGHT |
| ELEC | ELECTRICAL |
| EM | EMERG BATTERY BACKUP |
| EMB | EMERGENCY BALLAST |
| EMERG | EMERGENCY |
| EOL | END OF LINE |
| EQUIP'T | EQUIPMENT |
| ES | ENERGY SAVING |
| (EXN) | (E) IN (N) LOCATION |
| (EXR) | (E) TO BE (R) |
| EXT | EXTERIOR |
| F | FLUORESCENT |
| (F) | FUTURE |
| F–# | FURNACE |
| FA | FIRE ALARM |
| FACP | FIRE ALARM CONTROL PANEL |
| FAT | FIRE ALARM TERMINAL |
| FAU | FORCED AIR UNIT |
| FBO | FURNISHED BY OTHERS |
| FC–# | FAN COIL |
| FLA | FULL LOAD AMPS |
| FLR | FLOOR |
| FLUOR | FLUORESCENT |
| FS | FUSIBLE SWITCH |
| FVNR | FULL VOLTAGE NON–REVERSING |
| G | GROUNDING CONDUCTOR |
| GC | GENERAL CONTRACTOR |
| GD | GARBAGE DISPOSAL |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GFI | GROUND FAULT CIRCUIT INTERRUPTER |
| GND | GROUND |
| GRS | GALVANIZED RIGID STEEL |
| GWS | GANG WITH SWITCH |
| H | HEIGHT, HIGH |
| HACR | HEATING, AC & REFRIG |
| HID | HIGH INTENSITY DISCHARGE |
| HO | HIGH OUTPUT |
| HOA | HAND–OFF–AUTO |
| hp | HORSEPOWER |
| HPF | HIGH POWER FACTOR |
| HPS | HIGH PRESSURE SODIUM |
| IC | INTERCOM |
| ID | IDENTIFICATION |
| IF | INSIDE FROST |
| IG | ISOLATED GROUND |
| J–BOX | JUNCTION BOX |
| kVA | KILOVOLTAMPS |
| kW | KILOWATT |
| LC | LIGHTING CONTACTOR |
| LPS | LOW PRESSURE SODIUM |
| LRA | LOCKED ROTOR AMPS |
| LS | LIFE SAFETY BRANCH |
| LT | LIGHT |
| LTG | LIGHTING |
| LV | LOW VOLTAGE |
| MC | MECHANICAL CONTRACTOR |
| MCA | MINIMUM CKT AMPS |
| MCB | MAIN CIRCUIT BREAKER |
| MCTB | MAIN CATV TERMINAL BOARD |
| MCTC | MAIN CATV TERMINAL CABINET |
| MECH | MECHANICAL |
| MFR | MANUFACTURER |
| MFS | MAIN FUSIBLE SWITCH |
| MH | METAL HALIDE |
| MLO | MAIN LUGS ONLY |
| MOCP | MAXIMUM OCP |
| MSB | MAIN SWITCHBOARD |
| MT | MOUNT |
| MT HT | MOUNTING HEIGHT |
| MTS | MANUAL TRANSFER SWITCH |
| MTTB | MAIN TELEPHONE TERMINAL BOARD |
| MTTC | MAIN TELEPHONE TERMINAL CABINET |
| MW | MICROWAVE |
| N | NEUTRAL (GROUNDED CONDUCTOR) |
| (N) | NEW |
| N3R | NEMA 3R |
| NC | NORMALLY CLOSED |
| NEC | NATIONAL ELECTRICAL CODE |
| NEMA | NAT'L ELEC MANUFACTURER'S ASSOC |
| NIC | NOT IN CONTRACT |
| NL | NIGHT LIGHT |
| NO | NORMALLY OPEN |
| NPF | NORMAL POWER FACTOR |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OCP | OVERCURRENT PROTECTION |
| OD | OUTSIDE DIAMETER |
| OH | OVERHEAD |
| OSA | OFFICE of the STATE ARCHITECT |
| OSHPD | OFFICE of STATEWIDE HEALTH PLANNING & DEVELOPMENT |
| OVLD | OVERLOAD |
| P | POLE |
| PA | PUBLIC ADDRESS |
| PB | PULLBOX |
| PC | PULL CHAIN |
| PC | PHOTOCELL |
| ph | PHASE |
| PNL | PANEL |
| POC | POINT OF CONNECTION |
| –PP– | POWER PRIMARY |
| –PS– | POWER SECONDARY |
| (R) | RELOCATE(D) |
| RECEPT | RECEPTACLE |
| REF | REFRIGERATOR |
| REQ'D | REQUIRED |
| RLA | RATED LOAD AMPS |
| RM | ROOM |
| RMC | RIGID METAL CONDUIT |
| RMV | REMOVE |
| RPLC | REPLACE |
| RS | RAPID START |
| SC | SIGNAL CABINET |
| SCC | SHORT CKT CURRENT |
| SFM | STATE FIRE MARSHAL |
| SHT | SHEET |
| SL | SLIMLINE, SWITCH LEG |
| SPEC | SPECIFICATION |
| SPST | SINGLE POLE SINGLE THROW |
| SQ | SQUARE |
| STR'G | STORAGE |
| SURF | SURFACE |
| SVC | SERVICE |
| SW | SWITCH |
| T | TRANSFORMER, TERMINAL |
| –T– | TELEPHONE CONDUIT |
| TBR | TO BE REMOVED |
| TC | TIME CLOCK |
| TEL | TELEPHONE |
| TELCO | TELEPHONE COMPANY |
| TS | TIME SWITCH |
| TSO | TIME SWITCH OVERRIDE |
| TSP | TWISTED SHIELDED PAIR |
| TTB | TELEPHONE TERMINAL BOARD |
| TTC | TELEPHONE TERMINAL CABINET |
| TX | TRANSFORMER |
| TYP | TYPICAL |
| TYP SIM | TYPICAL SIMILAR |
| UC | UNDERCABINET, UNDERCOUNTER |
| UG | UNDERGROUND |
| UGPS | UNDERGROUND PULL SECTION |
| UL | UNDERWRITERS LABORATORIES |
| UON | UNLESS OTHERWISE NOTED |
| USA | UG SVC ALERT 800–642–24444 |
| V | VOLT |
| VA | VOLT AMPERES |
| VAC | VOLT ALTERNATING CURRENT |
| VHO | VERY HIGH OUTPUT |
| WP | WEATHER RESISTANT |

# GENERAL ELECTRICAL NOTES

GENERAL LIGHTING PLAN NOTES

- NIGHT LIGHT (NL) DESIGNATED LUMINARIES IN INTERIOR LOCATIONS SHALL HAVE ONE BALLAST CONTINUOUSLY ENERGIZED. LUMINARIES IN EXTERIOR LOCATIONS SHALL BE AUTOMATICALLY CONTROLLED TO BE ON FROM DUSK TO DAWN.
- LIGHTING FIXTURE LOCATIONS SHOWN ARE SCHEMATIC. REFER TO ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC.) FOR EXACT LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH–IN.
- REFER TO ARCHITECT'S REFLECTED CEILING PLAN(S) FOR CEILING HEIGHTS, TYPES, FINISHES, ETC. IN EACH AREA.
- CONFIRM LOCATION OF ALL DOORS SWINGS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH–IN OF SWITCHES.
- PROVIDE UNSWITCHED HOT LEG OF ROOM LIGHTING BRANCH CIRCUIT TO EACH BATTERY POWERED EMERGENCY LIGHT AND EXIT SIGN FOR CONTINUOUS CHARGING

GENERAL POWER PLAN NOTES

- FUSING: ALL FUSIBLE SAFETY DISCONNECT SWITCHES SHALL BE PROVIDED WITH DUAL–ELEMENT TIME DELAY TYPE FUSES SIZED AND RATED PER EQUIPMENT MANUFACTURERS' RECOMMENDATIONS. VERIFY WITH EQUIPMENT NAMEPLATE BEFORE INSTALLATION.
- INSTALL SEPARATE NEUTRALS FOR EACH BRANCH CIRCUIT SERVING ISOLATED GROUND RECEPTACLES.
- MOTOR OVERLOAD PROTECTION: WHERE REQUIRED BY NEC ARTICLE 430 PART C AND NOT SHOW ON PLAN OR PROVIDED INTEGRAL WITH EQUIPMENT, PROVIDE AND INSTALL THERMAL OVERLOAD PROTECTION FOR ALL MOTORS.
- SPARE CONDUIT FOR RECESSED PANELS: PROVIDE (1) 3/4" SPARE CONDUIT STUB UP TO ACCESSIBLE ABOVE CEILING SPACE AND/OR ACCESSIBLE SPACE BELOW FOR EVERY (3) SPARE BREAKER SPACES AS INDICATED ON PANEL SCHEDULES.
- DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH–IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.
- ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

GENERAL COMMUNICATION PLAN NOTES

- SIGNAL AND COMMUNICATIONS SYSTEMS RACEWAYS AND BOXES: PROVIDE AND INSTALL 5" SQUARE RECESSED JUNCTION BOX WITH 1–GANG RING AND 1–3/4" CONDUIT STUB TO ACCESSIBLE CEILING SPACE AT EACH WALL TELEPHONE (VOICE), TELEVISION AND DATA OUTLET LOCATION SHOWN ON THE PLANS UNLESS OTHERWISE NOTED. FOR EACH COMBINATION VOICE/DATA OUTLET, PROVIDE AND INSTALL (2) 3/4" CONDUIT STUBS TO ACCESSIBLE CEILING SPACE.
- BEFORE CONSTRUCTION, COORDINATE AND VERIFY ALL DATA AND TELEPHONE LOCATIONS WITH OWNER OR ARCHITECT
- TELEPHONE WIRING: EACH TELEPHONE OUTLET LOCATION SHOWN ON THE PLANS SHALL HAVE A 4 PAIR, 24 GAUGE CONTINUOUS CABLE, CATEGORY 6 (BERK–TEK LANMARK SERIES OR APPROVED EQUAL), HOME–RUN TO THE TELEPHONE TERMINAL BOARD "TTB" TERMINATE AT OUTLET LOCATION WITH OWNER APPROVED JACK, VERIFY LOCATIONS WITH OWNER OR ARCHITECT PRIOR TO CONSTRUCTION.
- TELEVISION PREWIRE: EACH TELEVISION OUTLET SHOWN ON THE PLANS SHALL HAVE AN RG6U (WITH QUAD SHIELD) COAXIAL CABLE HOMERUN PREWIRED TO THE CATV TERMINAL BOARD LABEL AND LEAVE ADEQUATE SLACK FOR UTILITY CONNECTION.
- VOICE/DATA WIRING: EACH VOICE/DATA OUTLET LOCATION SHOWN ON THE PLANS SHALL HAVE (4) 4 PAIR, 24 GAUGE, CATEGORY 6, UTP CABLES (BERK–TEK LANMARK SERIES OR APPROVED EQUAL) HOMERUN TO THE TELEPHONE TERMINAL BOARD. TERMINATE AT OUTLET LOCATION WITH OWNER APPROVED JACK. VERIFY SYSTEM REQUIREMENTS WITH OWNER OR ARCHITECT PRIOR TO CONSTRUCTION.
- DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH–IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.
- ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

ROOF PLAN NOTES

- ALL EQUIPMENT SHOWN ABOVE ROOF IS NEMA 3R.
- VERIFY EXACT EQUIPMENT LOCATIONS AND POINTS OF CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH–IN
- CONDUIT SHOWN IS ROUTED IN CEILING SPACE BELOW ROOF DECK
- NO ROOF MOUNT CONDUIT IS ALLOWED UNLESS OTHERWISE NOTED
- FUSE DISCONNECT SWITCHES PER EQUIPMENT NAMEPLATE RATING
- ALL ROOF PENETRATIONS SHALL BE MADE WITH ROOF JACKS, SEAL ALL PENETRATIONS PER THE WATER PROOF MEMBRANE MANUFACTURER'S RECOMMENDATIONS.

GENERAL NOTES

- CODE COMPLIANCE ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:
** CALIFORNIA CODE OF REGULATIONS TITLE 24; 2019 CALIFORNIA ELECTRICAL CODE, 2017 NEC, NFPA, 2019 CALIFORNIA BUILDING CODE, AMERICANS WITH DISABILITIES ACT (ADA) AND OTHER LOCAL AMENDMENTS AS APPLICABLE.
** E. UPON SITE PLACEMENT THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY MODULAR BUILDING MANUFACTURER OR GENERAL CONTRACTOR TO THE OWNER.
- SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORK PERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.
- FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH–PENETRATION FIRE–STOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
- MOUNTING HEIGHTS IN INCHES ABOVE FINISH FLOOR SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
** FROM BOTTOM OF BOX +15" MIN. & FROM TOP OF BOX 48" MAX.
** FROM TOP OF BOX 44" MAX. OVER OBSTRUCTIONS AFF:
*** RECEPTACLES, TELEPHONE, TV & DATA OUTLETS
** FROM TOP OF BOX +48" MAX. AFF: LIGHT SWITCHES
** FROM TOP OF BOX +48" AFF: T–STATS
** FROM TOGGLE +48" MAX. AFF: FIRE ALARM MANUAL PULL STATIONS
** FROM THE LOWER OF +80" AFF OR 6" BELOW CEILING: FIRE ALARM
** VISUALS & AUDIBLE DEVICES UNLESS MOUNTED ON CEILING
- BEFORE ROUGH–IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB–UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.
- LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES)

MECHANICAL SYSTEMS

- MECHANICAL UNIT CONDUITS: TO PREVENT DAMAGE DUE TO VIBRATION, BOTH POWER AND CONTROL WIRING CONDUITS FEEDING EXTERIOR MECHANICAL UNITS SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR WITH LIQUID TIGHT FLEXIBLE TYPE AT FINAL CONNECTION
- T–STAT J–BOXES: PROVIDE AND INSTALL 4" SQUARE JUNCTION BOX WITH 1–GANG RING AND 1/2" CONDUIT TO ACCESSIBLE CEILING SPACE ABOVE AT EACH THERMOSTAT LOCATION
- EXHAUST FANS SHALL BE PROVIDED & INSTALLED BY MECHANICAL CONTRACTOR WITH WIRING CONNECTIONS MADE BY ELECTRICAL CONTRACTOR
- MECHANICAL EQUIPMENT CONTROLS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE WIRE AND CONNECTIONS (BELOW 120 VOLT) TO AND FROM ALL MECHANICAL CONTROL DEVICES. ALL LOW VOLTAGE CONTROL WIRE SHALL BE IN CONDUIT, UNLESS OTHERWISE NOTED.
- PULL ROPES: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER IF REQUIRED BY SERVING UTILITY COMPANY. ANY NEW OR EXISTING COMMUNICATION OR SIGNAL RACEWAY ROUTED BETWEEN BUILDINGS, SIGNAL CABINETS, AND/OR SIGNAL CLOSETS WITH FUTURE CAPACITY SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AS WELL AS THE CALLED FOR CABLE
- ELECTRICAL SWITCHES: WHERE A REACH IS UNOBSTRUCTED, CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED 48 INCHES MAXIMUM (44 INCHES MAXIMUM WHERE A REACH IS OBSTRUCTED), MEASURED TO THE TOP OF THE OUTLET BOX; AND 15 INCHES MINIMUM, MEASURED TO THE BOTTOM OF THE OUTLET BOX, ABOVE THE FINISH FLOOR OR GROUND.
- ELECTRICAL RECEPTACLE OUTLETS: WHERE A REACH IS UNOBSTRUCTED, ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED 48 INCHES MAXIMUM (44 INCHES MAXIMUM WHERE A REACH IS OBSTRUCTED), MEASURED TO THE TOP OF THE OUTLET BOX; AND 15 INCHES MINIMUM, MEASURED TO THE BOTTOM OF THE OUTLET BOX, ABOVE THE FINISH FLOOR OR GROUND.

# 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 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 FLEX 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 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, LEES 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 PRE–APPROVED INSTALLATION GUIDE (EG. OSHPOD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO 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 THE LOADS.

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

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

MP☐ MD☐ PP☐E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE–APPROVED (OPM #) #_____.

# TITLE 24 CODES

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

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

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

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

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

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

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

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

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

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

2016 ASME A17.1/CSA B44–13 SAFETY CODE FOR ELEVATORS AND ESCALATORS.

2019 CALIFORNIA REFERENCED STANDARDS CODE . . . . . (PART 12, TITLE 24 CCR)

| | |
|---|---|
| NFPA 13 | – 2016 EDITION |
| NFPA 14 | – 2016 EDITION |
| NFPA 17 | – 2017 EDITION |
| NFPA 17A | – 2017 EDITION |
| NFPA 20 | – 2016 EDITION |
| NFPA 22 | – 2013 EDITION |
| NFPA 24 | – 2016 EDITION |
| NFPA 72 | – 2016 EDITION |
| NFPA 80 | – 2016 EDITION |
| NFPA 2001 | – 2015 EDITION |
| UL 300 | – 2005 (R2010) |
| UL 464 | – 2003 EDITION |
| UL 521 | – 1999 EDITION |
| UL 1971 | – 2002 (R2010) |
| ICC 300 | – 2017 EDITION |

REFERENCED CODE SECTIONS FOR APPLICABLE STANDARDS
2019 CBC, CHAPTER 35
2019 CFC, CHAPTER 80

IDENTIFICATION STAMP
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APP: 02-119613 INC: A
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APP: 02-118526 INC: A
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DSA APPLICATION NUMBER
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RELOCATABLE
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

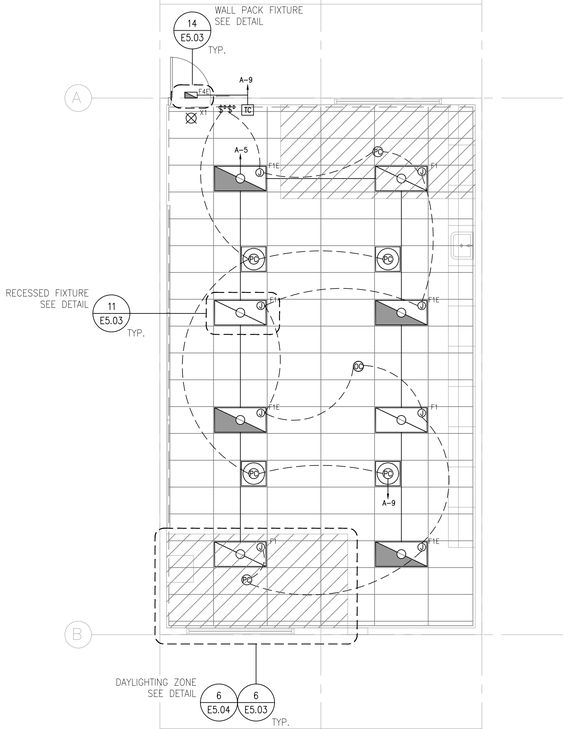
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ELECTRICAL NOTES

DSA APP NO.
02-119613

PROJECT NO.
06-0142

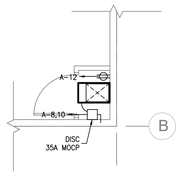
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2130 F STREET
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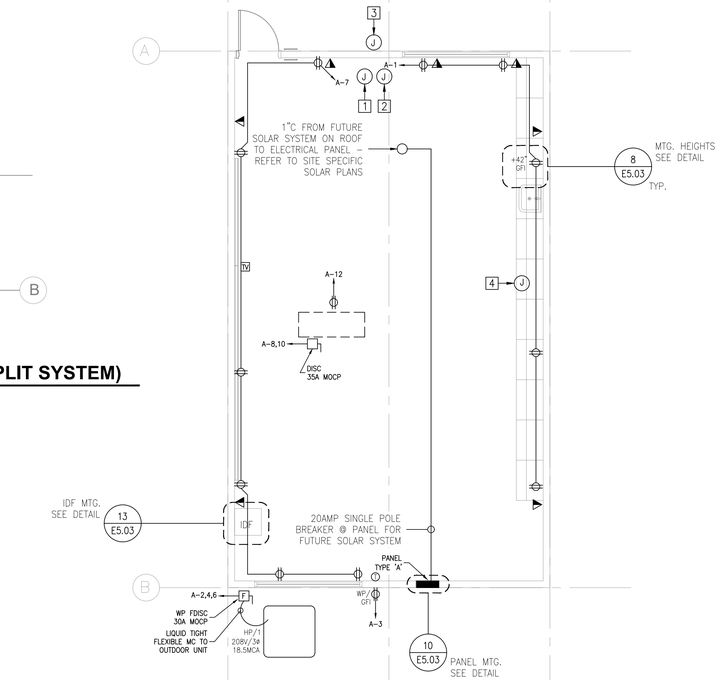

## 2 SOG 40 - LIGHTING PLAN - 2M (SPLIT SYSTEM)

SCALE: 3/16" = 1'-0"



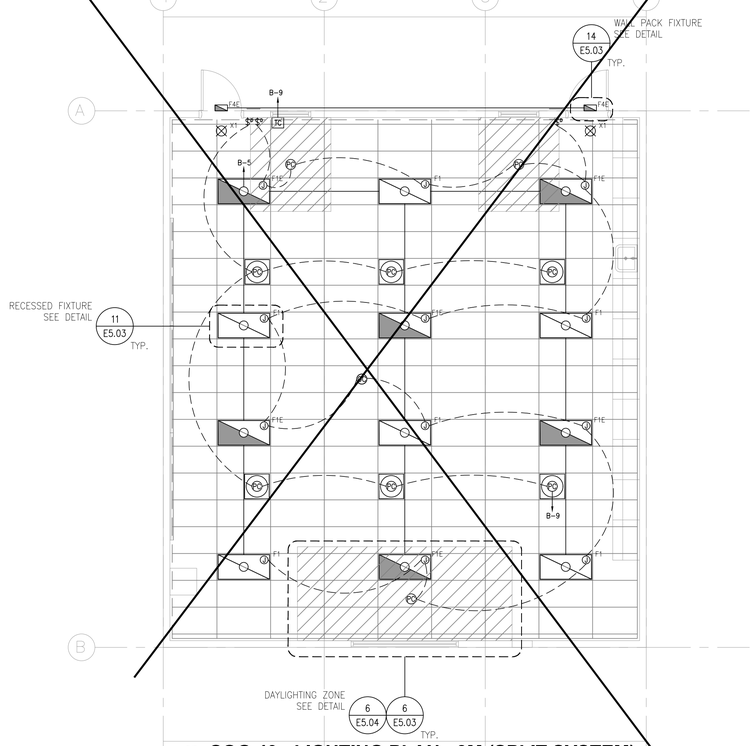

## CLOSET OPTION (SPLIT SYSTEM)

SCALE: 3/16" = 1'-0"



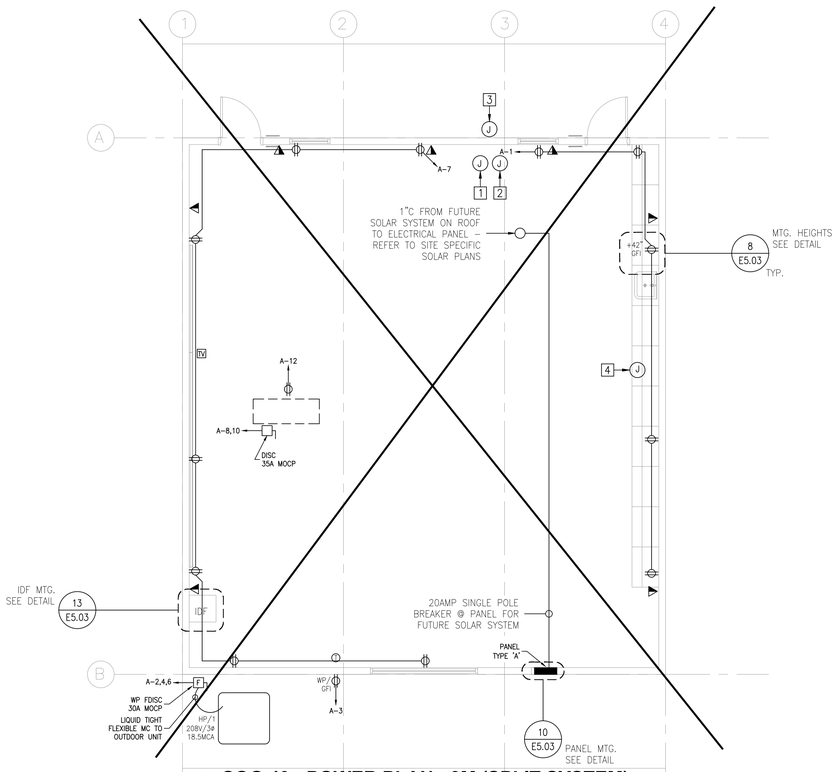

## 1 SOG 40 - POWER PLAN - 2M (SPLIT SYSTEM)

SCALE: 3/16" = 1'-0"




## 2 SOG 40 - LIGHTING PLAN - 3M (SPLIT SYSTEM)

SCALE: 3/16" = 1'-0"




## 1 SOG 40 - POWER PLAN - 3M (SPLIT SYSTEM)

SCALE: 3/16" = 1'-0"

KEYNOTES

[1] JUNCTION BOX FOR FIRE ALARM PULL STATION @ +48"FF WITH CONDUIT STUBBED TO ATTIC

[2] JUNCTION BOX FOR FIRE ALARM VISUAL DEVICE @ +80"FF WITH CONDUIT STUBBED TO ATTIC

[3] JUNCTION BOX FOR FIRE ALARM EXTERIOR HORN @ +80"FF WITH CONDUIT STUBBED TO ATTIC

[4] ADD JUNCTION BOX FOR FIRE ALARM PULL STATION @ +48"FF WITH CONDUIT STUBBED SCHOOL OR DAYCARE PURPOSES.

NOTE:
DEDICATED FIRE ALARM PLANS SHALL BE REQUIRED PER SITE SPECIFIC PLANS – JUNCTION BOXES SHOWN TO SPECIFY ROUTING OF CONDUIT IN ATTIC PURPOSES ONLY

REFER TO E0.01 & DETAIL 8/E5.03 FOR MOUNTING HEIGHTS
REFER TO E3.11 FOR SOLAR READY AREA ON ROOF

IDF NOTE:
LOCATION OF TELECOMMUNICATIONS CABINET DETERMINED IN FIELD. PROVIDE (1)6'X5/8"DIA COPPER CLAD STEEL GROUND ROD W/(1)#6G TO PANEL GROUND – PROVIDE (1) QUAD–PLEX RECEPTACLE IN CABINET TO CKT 3

GFI – GFI REQUIRED WITHIN 6' OF WATER SOURCE

[TC] WIRE ALL RESTROOM OUTDOOR LIGHTS TO ASTRONOMICAL ELECTRONIC TIME CLOCK – REFER TO DETAIL 4/E5.03

PRIMARY DAYLIT ZONE

Note:
PHOTO–SENSOR SHALL BE IN PRIMARY DAYLIT ZONE

T–24 PERFORMANCE RUNS DO NOT REQUIRE SECONDARY DAYLIGHT ZONE

FOR MORE INFO REFER TO E–5.04 DETAIL 6

## ELECTRICAL NOTES

ALL 20A, 120V RECEPTACLES SHALL BE LISTED TAMPER RESISTANT

GFI REC 6'–0" FROM WATER SOURCE

PANEL TO USE UFFER GROUND WHEN PANEL IS LOCATED IN ELECTRICAL ROOM BY OTHERS, SEE DETAILS 1 & 16/E5.03

PANELS TO USE 3/4"x10'–0" GROUND ROD. INSTALL PER N.E.C. IN OUTSIDE GROUND WELL BY OTHERS – CONNECT ALL PANELS TOGETHER WHEN BUILDING CONTAINS MULTIPLE PANELS, SEE DETAILS 1/E5.03 & 3/E5.04

PANEL TO USE 3/4"X10'–0" GROUND ROD. INSTALL PER N.E.C. IN OUTSIDE GROUND WELL BY OTHERS – ADD SECONDARY 3/4"x10'–0" GROUND ROD @ MIN. DISTANCE OF 6'–0" WHEN BUILDING CONTAINS ONLY ONE PANEL, SEE DETAILS 1/E5.03 & 3/E5.04

## LIGHTING NOTES

INTERLOCK EXHAUST FAN W/ LIGHTS VIA A RELAY

PHOTOSENSORS & OCCUPANCY SENSORS CONNECTED TO RELAY BOX W/ INDIVIDUAL RUNS

HALLWAY LIGHTS TO DIM 50% DURING UNOCCUPIED HOURS AND RETURN TO 100% WHEN OCCUPIED – WIRE THRU ASTRONOMICAL TIME CLOCK

INSTALL FLEX CONNECTION BETWEEN BUILDING MODULES WHEN RUNNING CONDUIT THROUGH SEISMIC GAP, SEE DETAIL 2/E5.03

WHEN SKYLIGHT OPTION SELECTED REFER TO DETAIL 3/E5.03

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CHECKED BY: GHA

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40'-0" WIDE MODULAR BUILDING

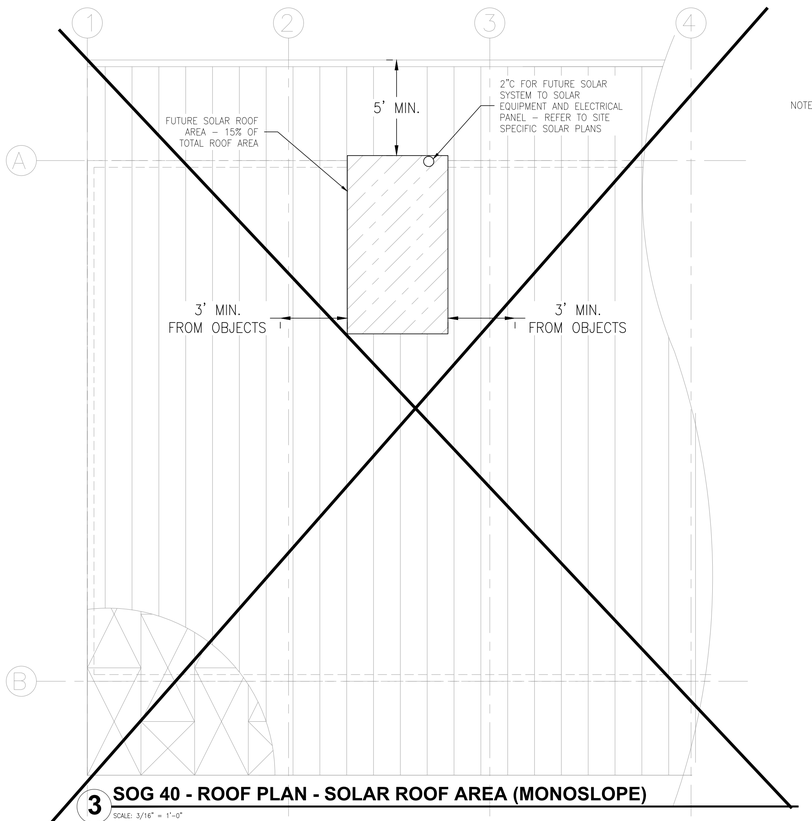
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ELECTRICAL PLANS: 2M & 3M
(SPLIT SYSTEM)

DSA APP NO.
02-119613

PROJECT NO.
06-0142

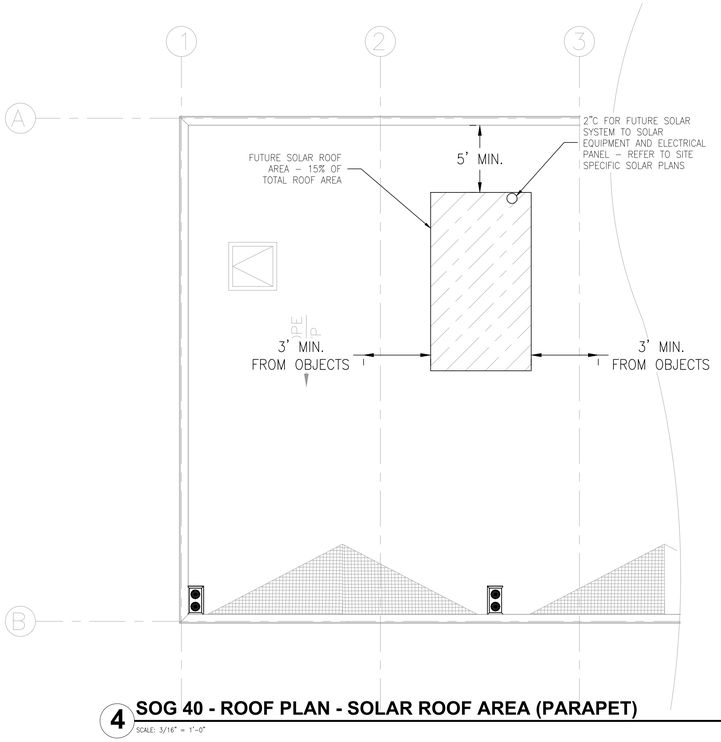
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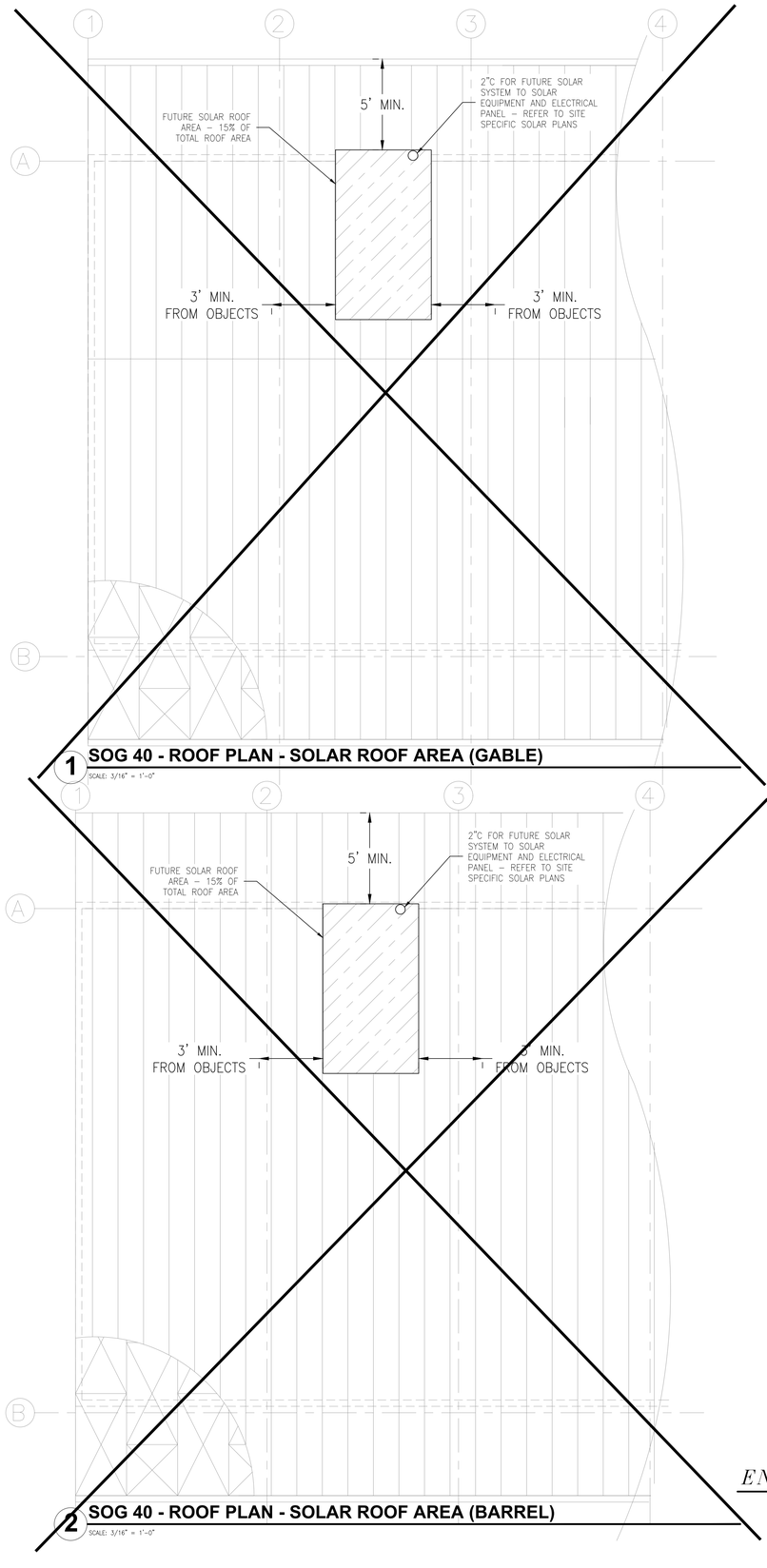



NOTE: SOLAR PANELS AND SOLAR PANEL ANCHORAGE IS NOT PART OF THIS APPLICATION

**3 SOG 40 - ROOF PLAN - SOLAR ROOF AREA (MONOSLOPE)**
SCALE: 3/16" = 1'-0"




**4 SOG 40 - ROOF PLAN - SOLAR ROOF AREA (PARAPET)**
SCALE: 3/16" = 1'-0"




**1 SOG 40 - ROOF PLAN - SOLAR ROOF AREA (GABLE)**
SCALE: 3/16" = 1'-0"

**2 SOG 40 - ROOF PLAN - SOLAR ROOF AREA (BARREL)**
SCALE: 3/16" = 1'-0"

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# RELOCATABLE SLAB ON GRADE BUILDING MODEL 40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
ELECTRICAL PLANS: ROOF (SOLAR PANEL SYSTEM)

DSA APP NO.
02-119613

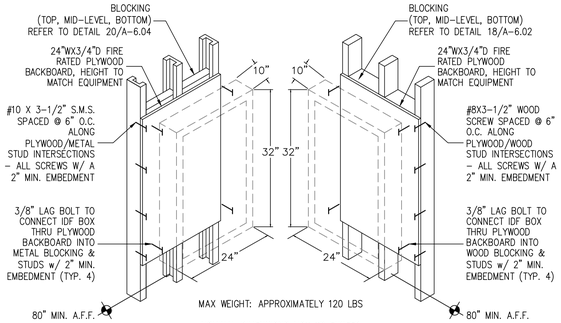
PROJECT NO.
06-0142

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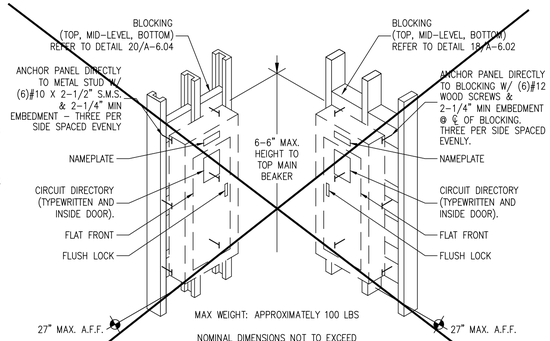
REGISTERED PROFESSIONAL ENGINEER
KEVIN T. MARK
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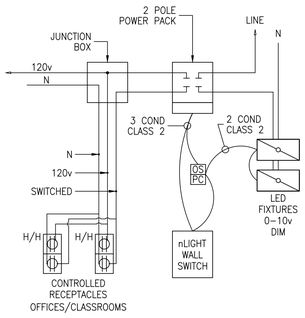

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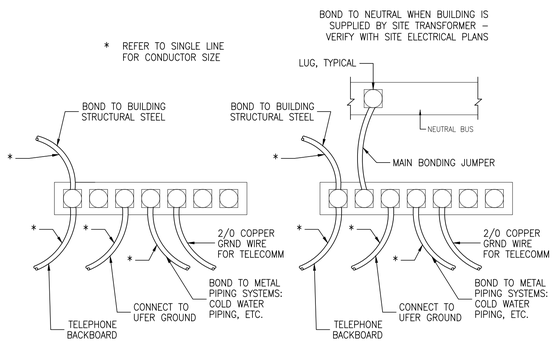

## 13 IDF SURFACE MOUNTING DETAIL
NTS



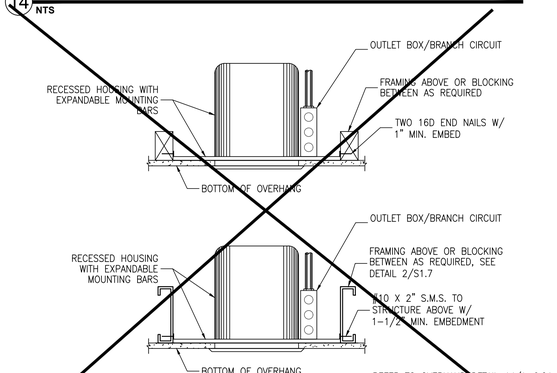

## 9 PANEL MTG - SURFACE
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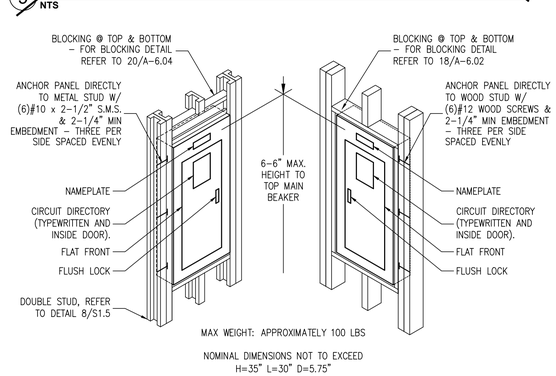

## 5 TITLE 24 CONTROLS DIAGRAM
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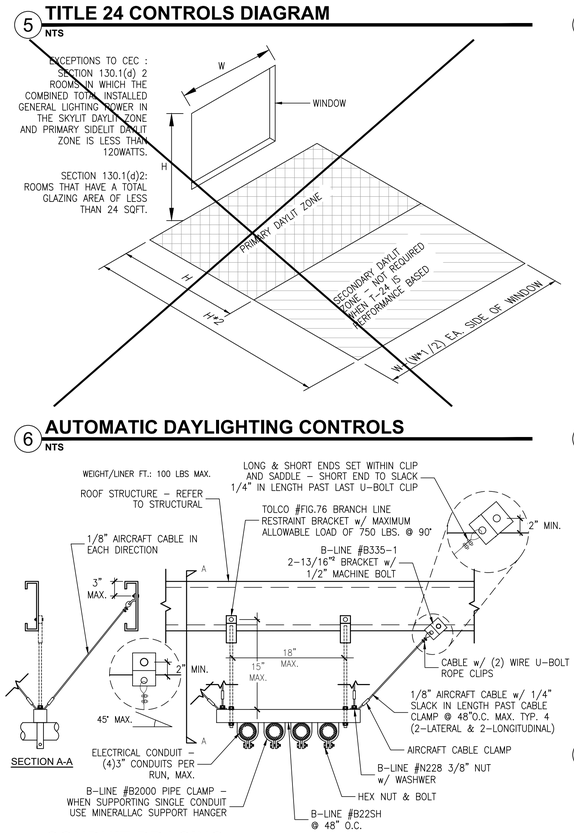

## 1 BONDING DETAIL
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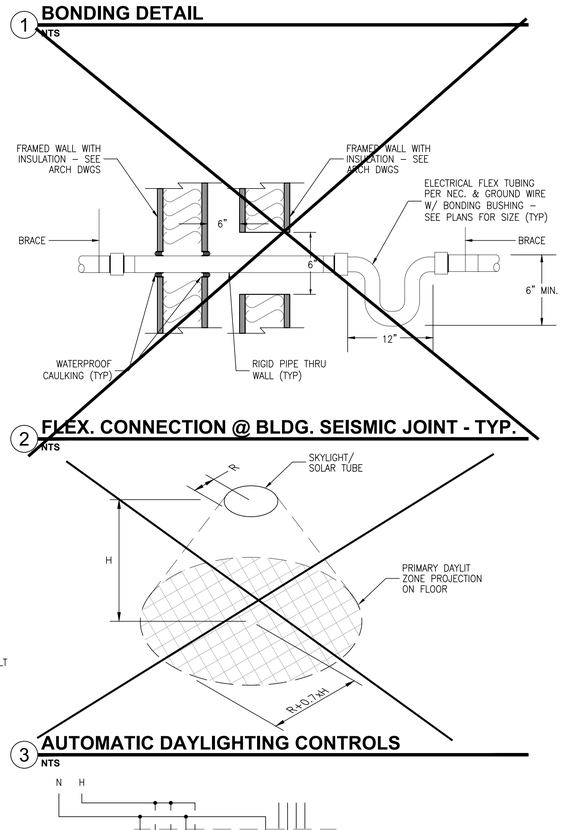

## 14 WALL PACK MOUNTING DETAIL
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## 10 PANEL MTG - FLUSH
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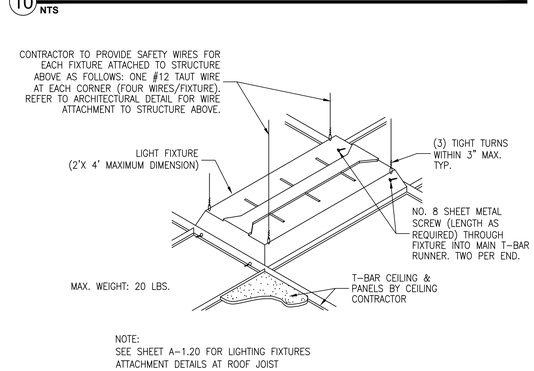

## 6 AUTOMATIC DAYLIGHTING CONTROLS
NTS




## 2 FLEX. CONNECTION @ BLDG. SEISMIC JOINT - TYP.
NTS




## 15 DOWNLIGHT MOUNTING DETAIL
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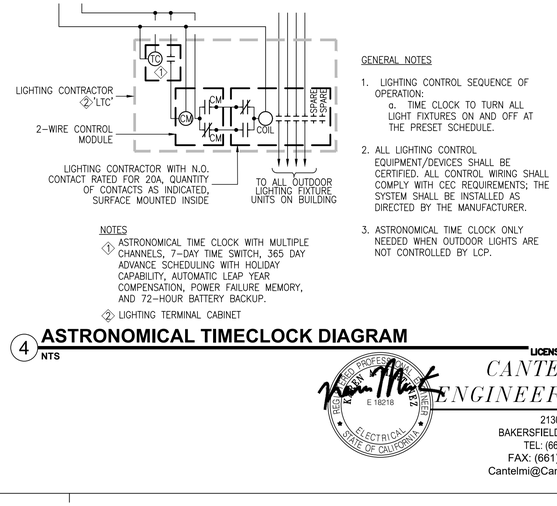

## 11 RECESSED FIXT. MTG.
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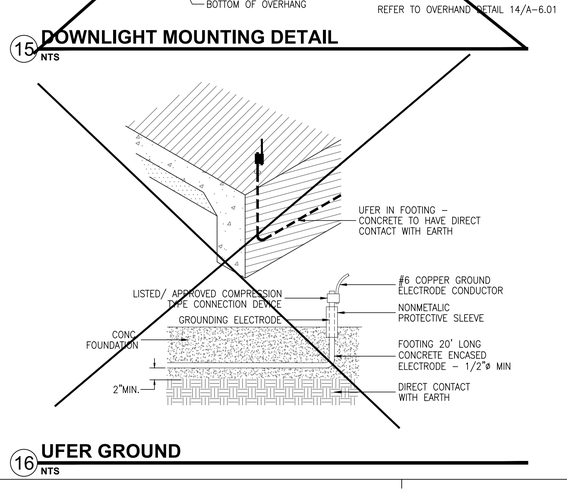

## 7 CONDUIT BRACING
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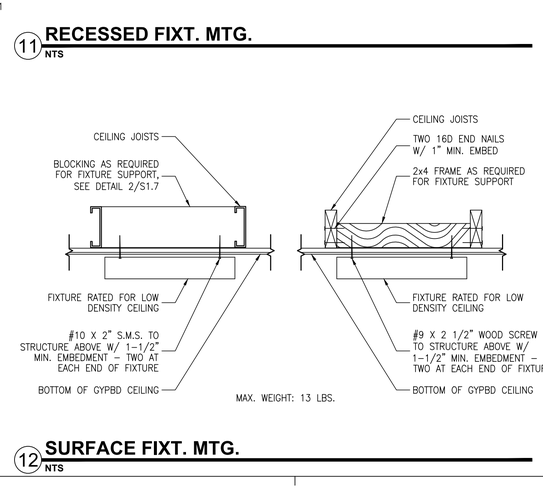

## 3 AUTOMATIC DAYLIGHTING CONTROLS
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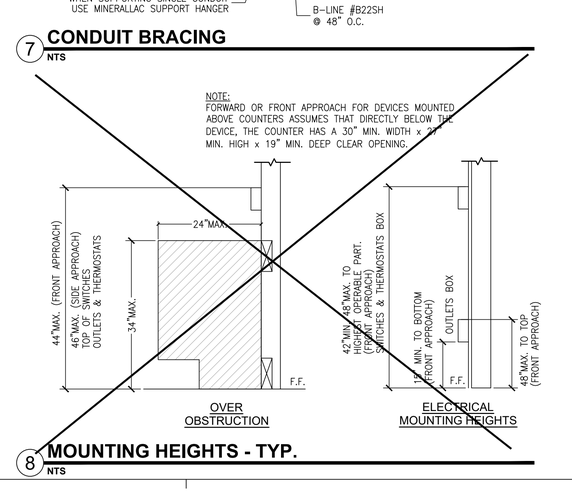

## 4 ASTRONOMICAL TIMECLOCK DIAGRAM
NTS




## 16 UFER GROUND
NTS




## 12 SURFACE FIXT. MTG.
NTS




## 8 MOUNTING HEIGHTS - TYP.
NTS

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# RELOCATABLE SLAB ON GRADE BUILDING MODEL 40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
ELECTRICAL DETAILS

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
E5.03

LICENSE #E18218
REGISTERED PROFESSIONAL ENGINEER E 18218 ELECTRICAL STATE OF CALIFORNIA
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Cantelmi@Cantelmi.NET
11/8/21

file: S:\DWGS2020\JTS\PC SDG-40 C20-111\PC SDG-40 ELECT C20-111.dwg date: 11/8/2021 10:33 AM

## LIGHT FIXTURE SCHEDULE

VOLTAGE: UNV (U.O.N.)

| TYPE | INPUT WATTS | DESCRIPTION AND MANUFACTURER | REMARKS |
|---|---|---|---|
| F1 | 59 | 2x4 LED TROFFER<br>#12 ACRYLIC .125" THICK LENS (OR EQUAL)<br>VOLTAGE: UNV<br>LAMP: LED – 7522 LUMENS<br>MANUFACTURER: COLUMBIA LIGHTING LJT–24–40VLG–FSA12–EDU | *F1E DESIGNATES EMERGENCY BALLAST FIXTURE<br>ELL14 w/ 90 MIN. BATTERY BACK–UP<br>*VERIFY FINISH w/ ARCHITECT<br>*WEIGHT: 18 LBS<br>*REFER TO MOUNTING DETAIL 11/E5.03 |
| F2 | 51 | 1X4 LOW PROFILE WRAPAROUND / LED<br>UL LISTED FOR WET LOCATION<br>VOLTAGE: UNV<br>LAMP: LED – 4714 LUMENS<br>MANUFACTURER: COLUMBIA LIGHTING LAW–4–40HL–EDU | *F2E DESIGNATES EMERGENCY BALLAST FIXTURE<br>ELL14 w/ 90 MIN. BATTERY BACK–UP<br>*VERIFY FINISH w/ ARCHITECT<br>*WEIGHT: 12 LBS<br>*REFER TO MOUNTING DETAIL 12/E5.03 |
| F3 | – | NOT USED<br>–<br>VOLTAGE: –<br>LAMP: –<br>MANUFACTURER: – | –<br>–<br>–<br>–<br>– |
| F4 | 13 | WALL PACK OUTDOOR LIGHT<br>–<br>VOLTAGE: UNV<br>LAMP: 13W LED<br>MANUFACTURER: HUBBELL OUTDOOR LIGHTING LNC2–5LU–4K–3 | *F4E DESIGNATES EMERGENCY BALLAST FIXTURE<br>BBU w/ 90 MIN. BATTERY BACK–UP<br>*VERIFY FINISH w/ ARCHITECT<br>*WEIGHT: 15 LBS<br>*REFER TO MOUNTING DETAIL 14/E5.03 |
| F5 | – | NOT USED<br>–<br>VOLTAGE: –<br>LAMP: –<br>MANUFACTURER: – | –<br>–<br>–<br>–<br>– |
| F6 | 27 | 1X4 LOW PROFILE WRAPAROUND / LED<br>UL LISTED FOR WET LOCATION<br>VOLTAGE: UNV<br>LAMP: LED – 3346 LUMENS<br>MANUFACTURER: COLUMBIA LIGHTING LAW–4–40VW–EDU | *F6E DESIGNATES EMERGENCY BALLAST FIXTURE<br>ELL14 w/ 90 MIN. BATTERY BACK–UP<br>*VERIFY FINISH w/ ARCHITECT<br>*WEIGHT: 12 LBS<br>*REFER TO MOUNTING DETAIL 12/E5.03 |
| X1 | 3.8 | LED EXIT/EMERGENCY UNIT COMBO<br>–<br>VOLTAGE: UNV<br>LAMP: (2) 4.12W LED<br>MANUFACTURER: COMPASS – CCR LED | –<br>–<br>–<br>*WEIGHT: 5 LBS<br>– |

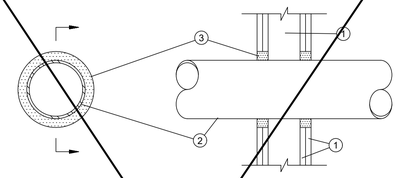
* ALL EXTERIOR LIGHT FIXTURES SHALL BE DARK SKY COMPLIANT AND SHALL NOT EXCEED BUG RATING REQUIREMENTS AS SHOWN IN TABLE 5.106.8 OF THE CALIFORNIA ENERGY CODE.

## LIGHTING CONTROLS SCHEDULE

| SYMBOL | DESCRIPTION AND MANUFACTURER | SYMBOL | |
|---|---|---|---|
| OS | OCCUPANCY SENSOR<br>CEILING MOUNT – 360° SENSING ANGLE<br>–<br>COMMUNICATION: (2)#18 AWG<br>MANUFACTURER: DOUGLAS #WORSDG1–P–N | R | RELAY PACK FOR CONTROLLED RECEPTACLES<br>FOR CONTROLLED RECEPTACLES IN OFFICE AREAS<br>20A MAX<br>COMMUNICATION: (2)18 GAUGE WIRE<br>MANUFACTURER: DOUGLAS WUL–3924 |
| PO | DAYLIGHT SENSOR<br>CEILING MOUNT IN DAYLIGHT AREA<br>–<br>COMMUNICATION: (2)#18 AWG<br>MANUFACTURER: DOUGLAS #WPP–INT | L | DIMMING RELAY PACK FOR CONTROLLED LIGHTS<br><br>MOUNT CONCEALED ABOVE CEILING – 16A MAX<br>COMMUNICATION: (2)18 GAUGE WIRE<br>MANUFACTURER: DOUGLAS WUL–3924 |
| $D | DIMMING LIGHT SWITCH<br>COLOR TO MATCH WALL FINISH – WH=WHITE<br><br>COMMUNICATION: (2)#18 AWG<br>MANUFACTURER: DOUGLAS #WSD–3501 | $OC | OCCUPANCY WALL LIGHT SWITCH<br>COLOR TO MATCH WALL FINISH – WH=WHITE<br><br>COMMUNICATION: (2)#18 AWG<br>MANUFACTURER: DOUGLAS #WOSSDG1–P–VW |

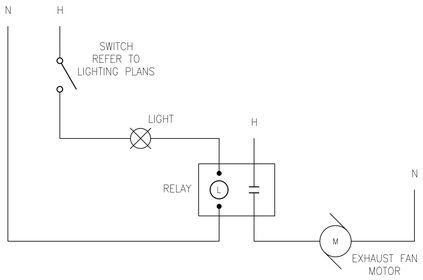
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC --
FS-One Sealant "Bearing the UL Classification Mark

F Ratings -- 1 and 2 Hr (See Item 1)
T Ratings -- 1 and 2 Hr (See Item 1)
L Rating at Ambient - Less Than 1 CFM/sq ft L Rating at 400 F - 2 CFM/sq ft

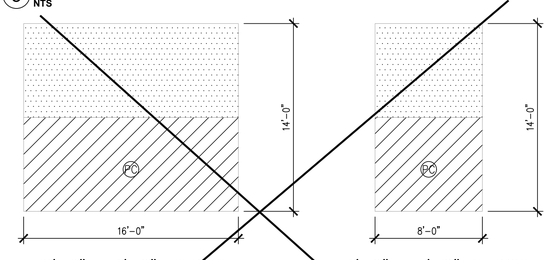



1. Wall Assembly -- The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be nom 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 2 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* -- 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls. The F Rating of the firestop system is equal to the fire rating of the wall assembly.
2. Through-Penetrants -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe -- Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe -- Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit -- Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
   D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe -- Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall .

### 4 PIPE PENETRATION DETAIL
NTS




### 5 EXHAUST FAN WIRING DIAGRAM
NTS




### 6 DAYLIGHT ZONE LEGEND
NTS

TYPICAL DESIGN
SOG 40

DESCRIPTION:

THE CLASSROOM LIGHTING CONTROLS SHALL BE PART OF THE CENTRAL LIGHTING CONTROL SYSTEM; LIGHTING SHALL BE CONFIGURED FOR ON/OFF/DIMMING/DAYLIGHT HARVESTING, AND SHALL PROVIDE THE FOLLOWING –

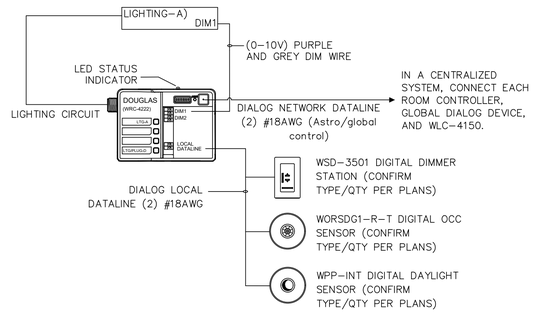
SEQUENCE OF OPERATIONS:

1. CLASSROOM LIGHTING SHALL COME ON VIA WALL STATION DIMMER.

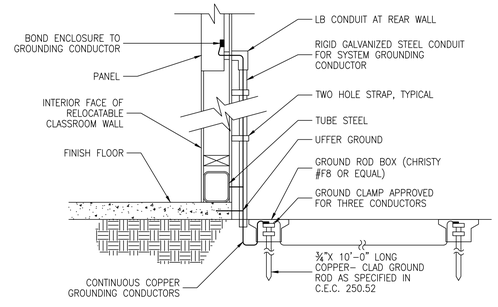
2. DAYLIGHT SENSOR SHALL CAUSE THE LIGHTING SYSTEM TO DIM THE LIGHTS UNIFORMLY BASED ON NATURAL DAYLIGHT AND PROVIDE TARGET FOOT–CANDLE LEVEL AT WORKPLANE HEIGHT. SENSORS IN DAYLIGHT AREA SHALL BE LOCATED PER MANUFACTURER'S RECOMMENDATIONS.

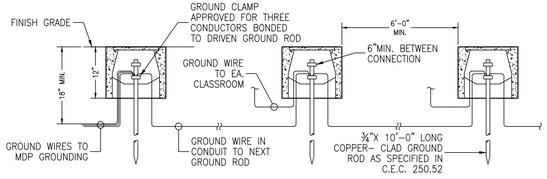
3. OCCUPANCY/VACANCY SENSORS SHALL TURN LIGHTS OFF 20 MINUTES AFTER THE CLASSROOM HAS BEEN VACATED. IN THE EVENT THE LUMINAIRES ARE TURNED OFF BY THE VACANCY SENSOR AND OCCUPANCY IS DETECTED BY THE VACANCY SENSOR WITHIN 30 SECONDS OF THE "OFF EVENT", LUMINAIRES SHALL AUTOMATICALLY BE ENERGIZED TO THEIR PREVIOUS SETTING.

4. CLASSROOM LIGHTING SHALL BE WIRED TO COMPLY WITH DEMAND RESPONSE SIGNAL TRIGGERED BY THE UTILITY COMPANY.




### 1 LIGHITNG SEQUENCE OF SEQUENCE OF OPERATION - TYP.
NTS




THE GROUNDING ELECTRODE SYSTEM SHALL BE TESTED BY THE FALL OF POTENTIAL METHOD AS SPECIFIED IN IEEE STANDARD 81–1983 AND SHOWN TO BE 25 OHMS OR LESS. A COPY OF THE TEST REPORT, SIGNED BY THE PROJECT INSPECTOR WHO WITNESSED THE TEST, SHALL BE SUBMITTED TO THE ARCHITECT AND ELECTRICAL ENGINEER.

BOND CLASSROOM BUILDINGS TOGETHER WITH (1)#4 CU CONDUCTOR WHERE RELOCATABLES OCCUR SIDE–BY–SIDE

SITE INSPECTOR IS TO WITNESS AND VERIFY GROUNDING TESTS

### 3 SYSTEM GROUND DETAIL
NTS


LICENSE #E18218
CANTELMI ENGINEERING
2130 F STREET
BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET
11/8/21


IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119613 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022


JTS MODULAR
A BETTER WAY TO BUILD
COMMERCIAL
INSTITUTIONAL
AND
RESIDENTIAL
MODULAR
BUILDINGS
DESIGN & PLANNING
7001 Mc Divitt Dr.
Bakersfield, CA 93313
Office: (661) 835-9270
Fax: (661) 847-1007
www.jtsmodular.com



STRUCTURAL ENGINEER OF RECORD
ORION
Structural Engineering, Inc.
11305 Rancho Bernard RD., Suite 121
San Diego, CA 92127
PHONE (858) 679-1974
FAX (858) 679 1975


REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4
EXP. 12/31/22
STRUCTURAL
STATE OF CALIFORNIA

DRAWN BY: ALV
CHECKED BY: GHA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-118526 PC
REVIEWED FOR
SS ☐ FLS ☑ ACS ☑ CO ☑
DATE: 12/14/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

# RELOCATABLE SLAB ON GRADE BUILDING MODEL
## 40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
ELECTRICAL LIGHTING SCHEDULE & DETAILS

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
E5.04


file: S:\DWGS2020\JTS\PC SDG-40 C20-111\PC SDG-40 ELECT C20-111.dwg date: 11/8/2021 10:33 AM

# PLUMBING ABBREVIATIONS

| | | | |
|---|---|---|---|
| & | AND | HB | HOSE BIBB |
| ∠ | ANGLE | HD | HEAD |
| @ | AT | HDWE | HARDWARE |
| ℄ | CENTER LINE | HI. | HIGH |
| ℞ | PROPERTY LINE | HORIZ | HORIZONTAL |
| ø | DIAMETER or ROUND | HP | HIGH PRESSURE |
| (E) | EXISTING | HR | HOUR |
| (N) | NEW | HT | HEIGHT |
| ⊥ | PERPENDICULAR | HVAC | HEATING, VENTILATING, AIR CONDITIONING |
| # | POUND or NUMBER | | |
| A/C | AIR CONDITIONING | ID | INSIDE DIAMETER (DIM.) |
| AC | ACCESSIBLE | INSUL | INSULATION |
| AP | ACCESS PANEL | INT | INTERIOR |
| AD. | AREA DRAIN | IW | IRIGATION WATER |
| ADJ | ADJUSTABLE | | |
| ADMIN | ADMINISTRATION | LAV | LAVATORY |
| AGGR | AGGREGATE | LPG | LIQUID PETROLEUM GAS |
| AL | ALUMINUM | | |
| APPROX | APPROXIMATE | M | MEN |
| APPT | APPOINTMENTS | MACH | MACHINE |
| ARCH. | ARCHITECTURAL | MATL | MATERIAL |
| ASB | ASBESTOS | MAX. | MAXIMUM |
| ASPH | ASPHALT | MECH | MECHANICAL |
| ASST | ASSISTANT | MS | MOP SINK |
| AUTO. | AUTOMATIC | MTL | METAL |
| | | MFGR | MANUFACTURER |
| BD | BOARD | MH | MANHOLE |
| (BF) | BELOW FINISH FLOOR | MIN | MINIMUM |
| (BG) | BELOW FINISH GRADE | MISC | MISCELLANEOUS |
| BLDG | BUILDING | MONIT | MONITOR |
| BLKG | BLOCKING | | |
| BM | BEAM | N | NORTH |
| BOT | BOTTOM | NIC | NOT IN CONTRACT |
| BV | BALL VALVE | NO. or # | NUMBER |
| | | NOM | NOMINAL |
| CB | CATCH BASIN | NTS | NOT TO SCALE |
| CD | CONDENSATE DRAIN | | |
| CEM | CEMENT | OA | OVERALL |
| CER | CERAMIC | OAV | OXYGEN, AIR & VACUUM |
| CI | CAST IRON | OC | ON CENTER |
| CJ | CONTROL JOINT | OHD | OVERHEAD |
| CLG | CEILING | OX. | OXYGEN |
| CLKG | CAULKING | PTN | PARTITION |
| CLR | CLEAR | PHYS | PHYSICAL |
| CO | CLEANOUT | PR | PRESSURE REGULATOR |
| COL | COLUMN | PVC | POLY-VINYL CLORIDE PIPE |
| COMP | COMPRESSED | PLAS | PLASTER |
| CONC | CONCRETE | PLYWD | PLYWOOD |
| CONF | CONFERENCE | POC | POINT OF CONNECTION |
| CONN | CONNECTION | PREFAB | PREFABRICATED |
| CONST | CONSTRUCTION | PREP | PREPARATION |
| CONT | CONTINUOUS | PT | PLUGGED TEE |
| CORR | CORRIDOR | PW | PROCESSED WATER |
| COTG | CLEANOUT TO GRADE | | |
| CP | CIRCULATING PUMP | R | RISER |
| CKS | COUNTERSUNK | RAD. | RADIUS |
| CTR | CENTER | RD | ROOF DRAIN |
| CV | CHECK VALVE | REF | REFERENCE |
| | | REINF | REINFORCED |
| DBL | DOUBLE | REQD | REQUIRED |
| DCW | DOMESTIC COLD WATER | RM | ROOM |
| DEPT | DEPARTMENT | RWL | RAINWATER LEADER |
| DET | DETAIL | | |
| DF | DRINKING FOUNTAIN | S | SINK or SOUTH |
| DHW | DOMESTIC HOT WATER | SA | WATER HAMMER ARRESTER |
| DHWR | DOMESTIC HOT WATER RETURN | SB | SPLASH BLOCK |
| DIA or ø | DIAMETER | SCHD | SCHEDULE |
| DIR | DIRECTOR | SDL | STORM DRAIN LINE |
| DN | DOWN | SECT. | SECTION |
| DR | DOOR | SH | SHOWER |
| DS | DOWNSPOUT | SHT | SHEET |
| DSP | DRY STANDPIPE | SIM | SIMILAR |
| DTW | DOMESTIC TEMPERED WATER | SL | SPRINKLER LINE |
| DWG | DRAWING | SPEC | SPECIFICATION |
| | | SOV | SHUT-OFF VALVE |
| E | EAST | SS | SERVICE SINK |
| EA | EACH | SST | STAINLESS STEEL |
| EDF | ELECTRIC DRINKING FOUNTAIN | STD | STANDARD |
| ELEC | ELECTRICAL | STL | STEEL |
| ELEV | ELEVATION | STOR | STORAGE |
| EMER | EMERGENCY | STRUCT | STRUCTURAL |
| ENCL | ENCLOSURE | SUPV | SUPERVISOR |
| EO | ELECTRICAL OUTLET | SUSP | SUSPENDED |
| EP | ELECTRICAL PANEL | S&W | SOIL & WASTE |
| EQ | EQUAL | | |
| EQUIP | EQUIPMENT | TA | TRAP ARM |
| (E) | EXISTING | TC | TOP OF CURB |
| EXP | EXPANSION | TEL | TELEPHONE |
| EXPO. | EXPOSED | TER | TERRAZZO |
| EXT | EXTERIOR | THK | THICK |
| | | TOC | TOP OF CONCRETE |
| FA | FIRE ALARM | TP | TRAP PRIMER |
| FCO | FLOOR CLEANOUT | TRANS | TRANSCRIPTION |
| FD | FLOOR DRAIN | TREAT. | TREATMENT |
| FDN | FOUNDATION | TYP | TYPICAL |
| FE | FIRE EXTINGUISHER | TV | TEMPERING VALVE |
| FEC | FIRE EXTINGUISHER CABINET | | |
| FH | FIRE HYDRANT | UL | UNDERWRITERS LABORATORIES |
| FHC | FIRE HOSE CAB. | UON | UNLESS OTHERWISE NOTED |
| FHMS | FLAT HEAD METAL SCREW | UR | URINAL |
| FIN. | FINISH | | |
| FL | FLOOR | V | VENT |
| FLASH. | FLASHING | VA | VALVE |
| FM | FIRE MAIN | VC | VITRIFIED CLAY |
| FOC | FACE OF CONCRETE | VTR | VENT THRU ROOF |
| FOF | FACE OF FINISH | VO | VENT OFFSET |
| FR | FRAME | | |
| FRPF | FIREPROOFING | W | WASTE LINE |
| FS | FLOOR SINK | W/ | WITH |
| FSH | FIRE SPRINKLER HEAD | WC | WATER CLOSET |
| FSL | FIRE SPRINKLER LINE | WCO | WALL CLEANOUT |
| FTR | FLUE THRU ROOF | WH | WATER HEATER |
| FUNC | FUNCTION | WHA | WATER HAMMER ARRESTOR |
| FURR | FURRING | W/O | WITHOUT |
| FUT | FUTURE | WMF | WASHING MACHINE FITTING |
| GA | GAUGE | WP | WATERPROOF |
| GALV | GALVANIZED | WT | WEIGHT |
| GC | GAS COCK | YD | YARD |
| GEN | GENERAL | | |
| GI | GALVANIZED IRON | | |
| GL | GLASS | | |
| GR | GRADE | | |
| GRD | GROUND | | |
| G | GAS LLINE | | |

# SYMBOLS

| SYMBOL | DESCRIPTION |
|---|---|
| | BALL VALVE |
| | BRANCH TOP CONNECTION |
| | BRANCH BOTTOM CONNECTION |
| | CAPPED PIPE |
| | CHECK VALVE |
| | CLEANOUT |
| | CLEANOUT TO GRADE |
| | CIRCULATING PUMP |
| | CONDENSATE DRAIN |
| | CONDENSATE "P" TRAP |
| | DOMESTIC COLD WATER |
| | DOMESTIC HOT WATER |
| | DOMESTIC HOT WATER RETURN |
| | EXISTING WASTE OR SOIL & WASTE |
| | FIRE HYDRANT |
| | FLOOR CLEANOUT |
| | FLOOR SINK |
| | GAS |
| | GAS COCK |
| | GAS PRESSURE REGULATOR |
| | GATE VALVE |
| | HOSE BIBB |
| | PIPE RISER (ELBOW) |
| | PIPE DROP (ELBOW) |
| | PIPE DROP OR RISER |
| | POINT OF CONNECTION |
| | PROCESS WASTE |
| | SHUT-OFF VALVE |
| | SHUT-OFF VALVE IN YARDBOX |
| | SOIL & WASTE |
| | TRAP ARM |
| | TRAP PRIMER |
| | VENT |
| | VENT OFFSET |
| | VENT THRU ROOF |
| | WALL CLEANOUT |
| | WASTE |
| | WATER HAMMER |

# GENERAL PLUMBING NOTES

SECTION 1
BASIC MECHANICAL MATERIALS AND METHODS

PART 1 – GENERAL

1.1 SUMMARY
A. LABOR, MATERIALS, TOOLS, AND SERVICES FOR A COMPLETE INSTALLATION OF EQUIPMENT AND SYSTEM CONTAINED WITHIN THE CONTRACT DOCUMENTS.
B. PRINCIPAL FEATURES OF THE WORK INCLUDED ARE:
1. PLUMBING SYSTEM AND RELATED PIPING INSULATION.
2. DOMESTIC WATER PIPING, VALVES, CONNECTIONS AND RELATED PIPING INSULATION.
3. LIMITED AREA FIRE PROTECTION (SPRINKLER SYSTEMS)
4. EXCAVATING AND BACKFILLING FOR MECHANICAL WORK; COORDINATE WITH APPROPRIATE TRADE.
5. ANCHOR BOLTS, SLEEVES, SUPPORTS AND SIMILAR ITEMS TO BE BUILT INTO CONCRETE OR MASONRY.
6. PREPARATION AND SUBMITTAL OF SHOP DRAWING AND PRODUCT DATA.
7. MAINTAINING A RECORD SET OF BLUE LINE PRINTS AND MAKING THEM TO INDICATE LOCATIONS OF CONCEALED ITEMS, AND DEVIATIONS MADE TO SUIT CONDITIONS AND PRODUCTION OF MECHANICAL AS-BUILT (RECORD) DRAWINGS.

1.2 JOB CONDITIONS.
A. SUBMITTAL OF BID IMPLIES BIDDER HAS READ APPLICABLE PARAGRAPHS OF THE SPECIFICATIONS AND WILL BE BOUND BY THEIR CONDITIONS.

1.3 LOCAL CONDITIONS
A. CONFORM WITH LOCAL CONDITIONS. COORDINATE WITH LOCAL UTILITIES ON SIZE OF UTILITY SERVICE.

1.4 INTENT
A. THE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) DESCRIBE THE PLUMBING WORK OF THIS PROJECT ANY ITEMS MENTIONED IN ONE PART SHALL BE AS BINDING AS THOUGH MENTIONED IN BOTH.
B. THE CONTRACT DOCUMENTS FORM A GUIDE FOR A COMPLETE PLUMBING INSTALLATION. WHERE AN ITEM IS REASONABLY NECESSARY BUT NOT SPECIFICALLY MENTIONED, SUCH AS PIPING OFFSETS, DRAINS, ETC., FOR A COMPLETE SYSTEM, PROVIDE SAME.
C. C.PLUMBING LAYOUTS INDICATED ON DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATIONS OF PIPES, AND EQUIPMENT SHALL BE GOVERNED BY THE DRAWINGS OF RELATED TRADES.

1.5 DEVIATIONS
A. NO DEVIATIONS FROM SPECIFICATIONS AND DRAWINGS SHALL BE MADE WITHOUT FULL KNOWLEDGE AND WRITTEN CONSENT OF CONSTRUCTION MANAGER.
B. B.SHOULD CONTRACTOR FIND, DURING PROGRESS OF WORK, CONDITIONS WHICH DICTATE A MODIFICATION OF ANY PARTICULAR REQUIREMENTS, REPORT SUCH ITEM PROMPTLY FOR DECISION OF INSTRUCTIONS.

1.6 QUALITY ASSURANCE
A. COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES.
B. COMPLY WITH APPLICABLE REQUIREMENTS OF RECOGNIZED INDUSTRY ASSOCIATIONS WITH PROMULGATE STANDARDS FOR THE VARIOUS TRADES. (SEE DIVISIONS 21 THRU 23)
C. C.EMPLOY ONLY QUALIFIED JOURNEYMEN FOR THIS WORK. EMPLOY COMPETENT, QUALIFIED PLUMBERS TO SUPERVISE THE WORK.

1.7 CODES AND STANDARDS
A. PERFORM WORK SPECIFIED IN DIVISIONS 21 THRU 23 IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS LISTED BELOW, AND SUCH STANDARDS THAT MAY BE SPECIFIED IN OTHER SECTIONS. WHEN THESE SPECIFICATIONS ARE MORE STRINGENT, THEY TAKE PRECEDENCE. IN CASE OF CONFLICT, OBTAIN A DECISION FROM THE PLUMBING ENGINEER.
1. NFPA 54: NATIONAL FUEL AND GAS CODE.
2. NFPA 101: LIFE SAFETY CODE.
3. APPLICABLE STATE BUILDING CODE.
4. NATIONAL STANDARD PLUMBING CODE ( OR APPLICABLE STATE PLUMBING CODE).
5. ACCESSIBILITY REQUIREMENTS ANSI A117.1, ADA, AND CBC CHAPTER 11-B
6. APPLICABLE STATE ENERGY CODE.
7. AGA: AMERICAN GAS ASSOCIATION.
8. ANSI: AMERICAN NATIONAL STANDARDS INSTITUTE.
9. ASTM: AMERICAN SOCIETY FOR TESTING AND MATERIALS.
10. MSS: MANUFACTURER'S STANDARDIZATION SOCIETY OF THE VALVE AND FITTING INDUSTRY.
11. NEMA: NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
12. NFPA: NATIONAL FIRE PROTECTION ASSOCIATION.
13. UL: UNDERWRITERS' LABORATORIES, INC.

1.8 COORDINATION
A. BEFORE STARTING ANY WORK CONTRACTOR SHALL CAREFULLY EXAMINE SPECIFICATIONS AND DRAWINGS TO BE THOROUGHLY FAMILIAR WITH ITEMS WHICH REQUIRE PLUMBING AND COORDINATION.
B. BEFORE STARTING ANY WORK SITE CIVIL ENGINEER SHALL PROVIDE UTILITIES TO THE BUILDING LOCATION BASED ON CAPACITY OF CALCULATIONS LISTED ON DRAWINGS. HE SHALL THOROUGHLY EXAMINE THE BUILDING SPECIFICATIONS AND DRAWINGS FOR COORDINATION OF ALL WORK AND REPORT TO THE ARCHITECT IN WRITING ANY AND ALL CONDITIONS WHICH MIGHT ADVERSELY AFFECT THIS PROJECT.
C. COORDINATE WITH OTHER DIVISIONS TO LEAVE PROPER CHASES AND OPENINGS. PLACE OUTLETS, ANCHORS, SLEEVES, AND SUPPORTS PRIOR TO POURING CONCRETE OF INSTALLATION OF MASONRY WORK.

1.9 SUBMITTALS
A. SUBMITTALS ARE ONLY REQUIRED FOR SPECIFIC ITEMS OF EQUIPMENT OR MATERIAL LISTED IN INDIVIDUAL SECTIONS OF THESE SPECIFICATIONS.
B. WITHIN 15 DAYS AFTER AWARD OF CONTRACT FOR THIS WORK, SUBMIT A LIST OF PROPOSED MANUFACTURERS (OF EQUIPMENT OR MATERIAL TO BE USED) FOR APPROVAL. SUBMIT THIS LIST BEFORE SUBMITTAL OF SHOP DRAWINGS AND PRODUCT DATA, AND OBTAIN APPROVAL BEFORE SUBMITTING REQUIRED ITEMS.
C. SHOP DRAWINGS (NOT REQUIRED FOR OWNER FURNISHED EQUIPMENT).

1.10 DELIVERY AND STORAGE
A. INSOFAR AS POSSIBLE, DELIVER ITEMS IN MANUFACTURER'S ORIGINAL UNOPENED PACKAGING. WHERE THAT IS NOT PRACTICAL, COVER ITEMS WITH PROTECTIVE MATERIALS TO KEEP THEM FROM BEING DAMAGED. USE CARE IN LOADING, TRANSPORT, UNLOADING, AND STORAGE TO KEEP ITEMS FROM BEING DAMAGED.

1.11 FIRE RATINGS
A. MATERIALS USED ANYWHERE IN THE WORK MUST HAVE NFPA RATINGS AS FOLLOWING:
1. FLAME SPREAD – NOT OVER 25
2. SMOKE DEVELOPED – NOT OVER 50
3. FUEL CONTRIBUTED – NOT OVER 25
B. MATERIALS SHALL BE "SELF EXTINGUISHING".

1.12 PERMITS AND FEES
A. OBTAIN, PAY FOR, AND DELIVER PERMITS, CERTIFICATION OF INSPECTION, AND OTHER SUCH ITEMS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. DELIVER CERTIFICATION TO THE CONSTRUCTION MANAGER PRIOR TO FINAL ACCEPTANCE OF THE WORK. AN INSPECTION CERTIFICATE FOR EACH CLASS OF WORK REQUIRING INSPECTION MUST BE SUBMITTED PRIOR TO OR WITH THE FINAL PAYMENT INVOICE. THE RESPONSIBLE TRADE CONTRACTOR MUST MAKE APPLICATION FOR THE INSPECTION, COORDINATE SAME AND PAY THE REQUIRED INSPECTION FEE.

1.13 EXTENDED WARRANTIES
A. WORK FURNISHED UNDER THE CONTRACT SHALL BE WARRANTED AGAINST DEFECTS IN WORKMANSHIP AND ( CONTRACTOR FURNISHED) MATERIALS FOR A PERIOD OF NOT LESS THAT ONE (1) YEAR, OR AS OTHERWISE SPECIFIED, FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION, DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIED, AND DEFECTIVE MATERIAL REPLACED, WITHOUT ADDITIONAL COST. WHEN DEFECTS IN A TRADE CONTRACTOR'S WORK CAUSES DAMAGE TO THE WORK OF THE OTHER TRADE CONTRACTORS, SUCH DAMAGE SHALL BE REPAIRED BY THE TRADE CONTRACTOR CAUSING DAMAGE AND WORK RESTORED TO ITS ORIGINAL CONDITION, AT THE EXPENSE OF THE TRADE CONTRACTOR THAT CAUSED THE DAMAGE.

PART 2 – PRODUCTS

2.1 MATERIALS AND EQUIPMENT
A. WITHIN THE CONTRACT DOCUMENTS RELATING TO PLUMBING WORK, MANUFACTURER'S NAMES, CATALOG NUMBERS, AND OTHER PROPRIETARY REFERENCES TO MATERIALS AND EQUIPMENT ARE MADE. SUCH REFERENCES ARE MADE TO ESTABLISH THE STANDARDS OF QUALITY AND TYPE REQUIRED, AND NOT TO LIMIT COMPETITION. ACCEPTABLE MANUFACTURER'S OF COMPETITIVE PRODUCTS ARE LISTED IN APPLICABLE SECTIONS AS "APPROVED EQUALS". REASONABLE REQUESTS FOR SUBSTITUTION OR ADDITIONS TO "APPROVED EQUALS" WILL BE CONSIDERED, BUT THE MECHANICAL ENGINEER WILL BE THE SOLE JUDGE OF ACCEPTABILITY OF ITEMS PROPOSED AS SUBSTITUTES.
B. MATERIALS AND EQUIPMENT USED IN CARRYING OUT THESE SPECIFICATIONS SHALL BEAR UL OR OTHER RECOGNIZED TESTING LABORATORY LABEL WHEN SUCH LABELS ARE AVAILABLE.

PART 3 – EXECUTION

3.1 LOCATIONS
A. PLUMBING LAYOUTS INDICATED ON DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATIONS OF PIPES, AND EQUIPMENT MAY VARY BECAUSE OF CONFLICTS WITH WORK OF OTHER TRADES. WORK OUT CONFLICTS WHERE RELOCATION'S WILL NOT AFFECT OPERATION OR APPEARANCE OF SYSTEMS PER APPROVAL OF THE ARCHITECT & ENGINEER OF RECORD.
B. LOCATE EQUIPMENT REQUIRING PERIODIC SERVICING SO THAT IT IS READILY ACCESSIBLE. DO NOT BACK UP SERVICE SIDES TO WALLS, NOR PLACE IT TOO CLOSE TO OTHER EQUIPMENT TO MAKE SERVICE IMPRACTICAL. EQUIPMENT SERVICE CLEARANCE SHALL MEET MINIMUM ACCEPTABLE DISTANCE AS RECOMMENDED BY EQUIPMENT MANUFACTURER.

3.2 UTILITIES EXCAVATING AND BACKFILLING
A. PERFORM TRENCHING, EXCAVATING, BACKFILLING FOR MECHANICAL WORK IN ACCORDANCE WITH THE APPROPRIATE SECTIONS AND AS SET FORTH BELOW
1. PERFORM WORK NECESSARY FOR INSTALLATION OF MECHANICAL UTILITIES.
2. DEPTH OF EXCAVATION TO PROVIDE A MINIMUM OF 3" ABOVE TOP OF PIPE. EXCAVATION TO BE CARRIED TO A DEPTH OF AT LEAST 6" BELOW BOTTOM OF PIPE ELEVATION. FILL BELOW PIPE (6"), AROUND PIPE, AND A MINIMUM OF 12" ABOVE PIPE WIT SAND OR CLASS "B" CRUSHED STONE TAMPED FIRM AND EVEN. SEPARATE TOPSOIL DURING EXCAVATION. FINAL LAYER OR DIRT (12" MINIMUM) TO BE TOPSOIL. TRENCHES TO BE AT LEAST 18" WIDER THAN PIPE WITH BATTER BOARDS PLACED EVERY 25'. BACKFILLING SHALL BE DONE TO EXCLUDE USE OF ROCK OR STONE ABOVE SAND OR CRUSHED STONE.

3.3 CUTTING AND PATCHING
A. REPAIR OR REPLACE ROUTINE DAMAGE CAUSED BY CUTTING IN PERFORMANCE OF CONTRACT.
B. PERFORM REPAIRS WITH MATERIALS WHICH MATCH EXISTING AND INSTALL IN ACCORDANCE WITH THE APPROPRIATE SECTION OF THESE SPECIFICATIONS OR THE BEST STANDARDS OF THE INDUSTRY.

3.4 CONNECTION TO EQUIPMENT
A. CONNECT OR INSTALL EQUIPMENT SHOWN ON MECHANICAL DRAWINGS THAT REQUIRE PLUMBING.
1. ROUGH – IN PIPING AND CONNECT EQUIPMENT
2. PROVIDE PIPING, SHUTOFF VALVES, AND UNIONS REQUIRED FOR A COMPLETE INSTALLATION

3.5 SERVICE OF SYSTEM
A. EMPLOY COMPETENT, QUALIFIED PERSONNEL IN OPERATION OF THE EQUIPMENT.
B. PROVIDE FOR PROPER OPERATION AND CLEANLINESS.
C. OPEN UP EQUIPMENT FOR INSPECTION AS DIRECTED BY THE SUPERINTENDENT.

END OF SECTION

SECTION 2
PLUMBING

PART 1 – GENERAL

1.1 SCOPE OF WORK
A. FURNISHING OF ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION, SERVICE, AND RELATED ITEMS NECESSARY TO COMPLETE THE INSTALLATION OF THE PLUMBING SYSTEM AS ILLUSTRATED ON THE DRAWING AND AS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
3. HOT & COLD WATER SYSTEM WITH COMPLETE CONNECTIONS FROM METER TO ALL PLUMBING FIXTURES & EQUIPMENT REQUIRING WATER CONNECTIONS
4. SOIL, WASTE, VENT AND CONDENSATE SYSTEM LINES INSIDE AND OUTSIDE THE BUILDING.
5. TRENCHING AND BACKFILLING.
6. FINAL PLUMBING CONNECTIONS TO HEATING AND AIR CONDITIONING EQUIPMENT.
7. GAS PIPING TO HEATING, WATER HEATERS AND ALL OTHER GAS BURNING EQUIPMENT.

PART 2 – PRODUCTS

2.1 DESCRIPTION
A. ALL SOIL, WASTE, AND VENT PIPING TO BE ABS OR PVC-DWV SCHEDULE 40 PIPE & FITTINGS. YARD PIPING, PIPE AND FITTINGS OR P.V.C. SCHEDULE 40 PIPE AND FITTINGS (AS APPROVED BY LOCAL AUTHORITY). EXCEPTION: ALL SOIL, WASTE & VENTS LOCATED WITHIN A FIRE RATED WALL SHALL BE METALLIC (STEEL, CAST IRON ECT., NO PVC). IT SHALL BE THE RESPONSIBILITY OF THE PLUMBER TO VERIFY ALL FIRE RATED WALLS AND CONSTRUCTION AS SHOWN ON THE ARCHITECTURAL DRAWINGS AND COORDINATE WITH THE GENERAL CONTRACTOR. ALL SOIL, WASTE AND VENTS SHALL BE INSTALLED AS PER CPC AND LOCAL CODES.
B. HOT & COLD WATER PIPING ABOVE FLOOR: TYPE "L" COPPER, HARD DRAWN. BELOW GROUND OUTSIDE OF BUILDING: TYPE "K" SOFT DRAWN COPPER TUBING WITH OUT JOINTS.
C. CONDENSATE DRAIN PIPING: TYPE "M" COPPER WITH 95-5 TIN ANTIMONY SOLDER AND ROUGH COPPER FITTINGS OR EQUAL.
D. INDIRECT WASTE PIPING: TYPE "M" COPPER WITH 95-5 TIN ANTIMONY SOLDER AND WROUGHT COPPER FITTINGS OR P.V.C. SCHEDULE 40, AS APPROVED BY LOCAL AUTHORITY.
E. UNDERGROUND GAS PIPING: SCHEDULE 40 BLACK STEEL PIPE WITH LONG RADIUS STEEL WELDING FITTINGS INCLUDING CATHODIC PROTECTION OR POLYETHYLENE AS APPROVED BY LOCAL GAS COMPANY AND AUTHORITY HAVING JURISDICTION. INSTALLATION OF GAS SERVICE PIPING IN VENTED CONDUIT AND MEETING WITH THE LOCAL GAS COMPANY'S APPROVAL.
F. GAS PIPING ABOVE GROUND: SCHEDULE 40 BLACK STEEL WITH 150 POUND BLACK MALLEABLE IRON SCREWED FITTINGS. GAS PIPING COMPOUND AT JOINTS IN COMPLIANCE WITH NFPA BULLETIN #45 AND LOCAL APPLICABLE CODES AND SUITABLE FOR NATURAL GAS SERVICE. INSTALL MOISTURE TRAPS ON HVAC UNITS, WATER HEATERS, AND KITCHEN EQUIPMENT.
G. STORM PIPING BELOW GROUND: STANDARD WEIGHT COATED CAST IRON PIPE AND STAINLESS STEEL/ NEOPRENE GASKET FITTING, LOCATIONS.
H. STORM PIPING ABOVE GROUND: STANDARD WEIGHT COATED CAST IRON PIPE AND STAINLESS STEEL/ NEOPRENE GASKET FITTING.
I. TRAPS AND VENTS FOR SERVICE SINK: A.B.S. OR P.V.C. SCHEDULE 40, AS APPROVED BY LOCAL AUTHORITY.

2.2 INSULATION
A. INSULATE ALL HOT AND COLD WATER COPPER PIPING WITH AT LEAST 1/2" THICK FOAM RUBBER OR FOAM PLASTIC TYPE PIPE INSULATION.

2.3 FIXTURES
A. ALL FIXTURES: AS INDICATED ON DRAWINGS WITH EQUAL PRODUCTS FURNISHED BY AMERICAN STANDARD, KOHLER, ELJER OR EQUAL.

2.4 CLEANOUTS, FLOOR DRAINS, FLOOR SINKS, AND ROOF DRAINS.
A. ALL ACCESSORIES, AS INDICATED ON DRAWING WITH EQUAL PRODUCTS FURNISHED BY WADE, JOSAM, OR ZURN BEING ACCEPTABLE.

2.5 EQUIPMENT
A. SHUTOFF VALVES UNDERNEATH LAVATORIES, TANK TYPE WATER CLOSETS, AND KITCHEN EQUIPMENT WITH CHROME PLATED ANGLE STOP VALVES WITH CHROME PLATED ESCUTCHEON PLATES.
B. HOSE BIBBS – AS SCHEDULED ON DRAWINGS.
C. VACUUM BREAKERS – AS SCHEDULED ON DRAWINGS.
D. BACKFLOW PREVENTERS – AS SCHEDULED ON DRAWINGS.
E. GAS COCK – PLUG VALVE IRON BODY, BRONZE TAPERED PLUG, LUBRICATED, THREADED ENDS. RATED FOR 200 CWP, AGA AND UL LISTED.

PART 3 – INSTALLATION

3.1 PIPING
A. RUN ALL PIPING CONCEALED EXCEPT WHERE OTHERWISE INDICATED ON DRAWINGS.
B. INSTALL VALVES TRAPS CLEANOUT AND OTHER APPARATUS IN AN EASILY ACCESSIBLE LOCATION
C. INSTALL SOIL, WASTE VENT OFFSETS AND CONDENSATE DRAINS WITH A MINIMUM UNIFORM GRADE OF ONE QUARTER INCH TO THE FOOT.
D. MAINTAIN HOT AND COLD WATER LINES AT LEAST 6 INCHES APART WHERE PIPING IS PARALLEL.
E. PROVIDE ESCUTCHEON PLATES WHERE ALL PIPES PASS THROUGH A FINISHED WALL.

3.2 PLUMBING FIXTURES
A. FURNISH AND INSTALL ALL PLUMBING FIXTURES COMPLETE WITH ALL EQUIPMENT FITTINGS, TRIMMING, AND ACCESSORIES.
B. ALL FIXTURES: GRADE A, WHITE.
C. EXPOSED PIPING TO FIXTURES: A PRODUCT OF THE FIXTURE MANUFACTURE.
D. PROVIDE STOPS AS MANUFACTURED BY THE FIXTURE MANUFACTURER, WITH METAL – TO – SEAT FOR ALL FIXTURES AND EQUIPMENT.

3.3 TEST
A. THE PLUMBING SYSTEM AND ASSOCIATED SYSTEM IS SUBJECT TO FINAL APPROVAL OF THE OWNER'S REPRESENTATIVE AND CODE AUTHORITIES HAVING JURISDICTION. PERFORM ALL TESTS REQUIRED TO SHOW CODE COMPLIANCE AS DIRECTED.

3.4 CLEANING AND PROTECTION
A. AFTER THE PLUMBING PIPING HAS BEEN INSTALLED, INSPECTED, AND APPROVED, FLUSH THE PIPING SYSTEM TO REMOVED ANY FOREIGN MATTER FROM THE PIPES.

3.5 MAINTENANCE
A. MAINTAIN ALL PARTS OF THE PLUMBING FIXTURES AND ASSOCIATED EQUIPMENT THROUGHOUT THE GUARANTEE

END OF SECTION

## 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 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 FLEX 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 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, LEES 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 PRE-APPROVED INSTALLATION GUIDE (EG. OSHPOD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO 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 THE LOADS.

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

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

MP☐ MD ☐ PP☐E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #_____.

## TITLE 24 CODES

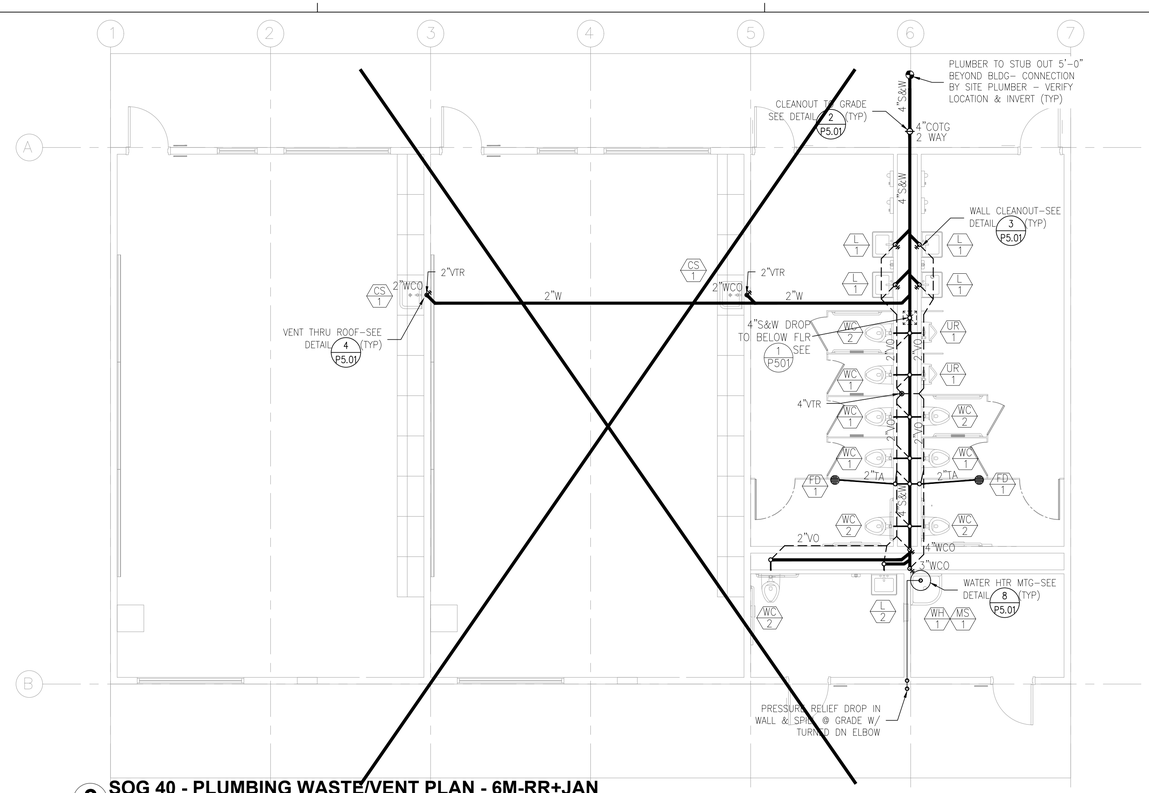
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2019 CALIFORNIA BUILDING CODE (CBC) . . . . . (PART 2, TITLE 24 CCR)
(2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)

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

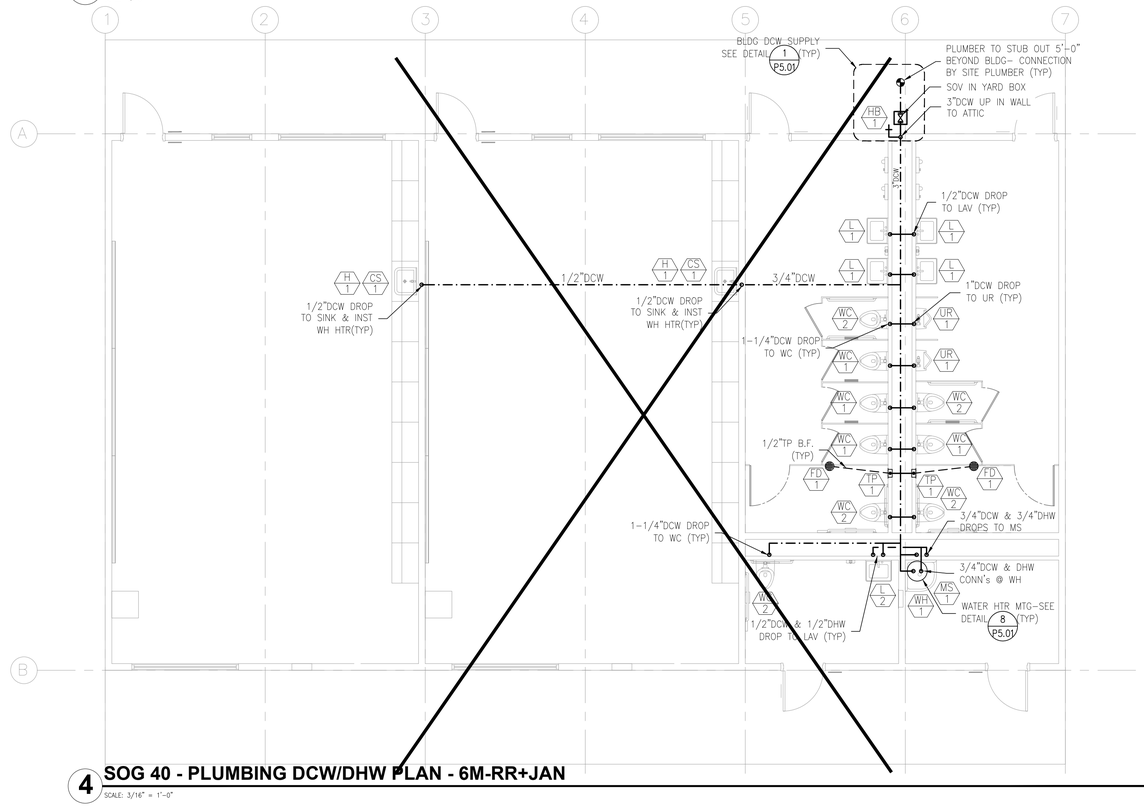
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2019 C



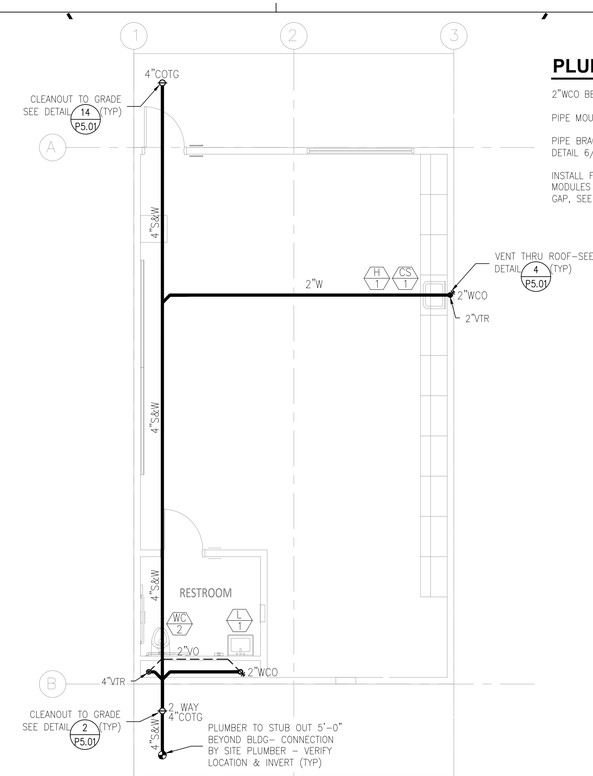

## 3 SOG 40 - PLUMBING WASTE/VENT PLAN - 6M-RR+JAN

SCALE: 3/16" = 1'-0"



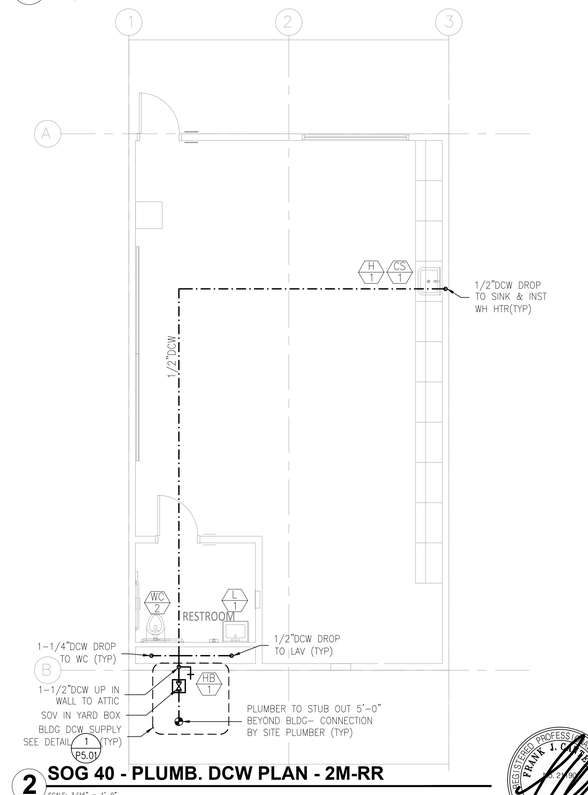

## 4 SOG 40 - PLUMBING DCW/DHW PLAN - 6M-RR+JAN

SCALE: 3/16" = 1'-0"




## 1 SOG 40 - PLUMB. WASTE PLAN - 2M-RR

SCALE: 3/16" = 1'-0"




## 2 SOG 40 - PLUMB. DCW PLAN - 2M-RR

SCALE: 3/16" = 1'-0"

## PLUMBING NOTES

2"WCO BELOW EVERY LAVATORY, SINK & URINAL

PIPE MOUNTING ON WALL REFER TO DETAIL 5/P5.01

PIPE BRACING DETAIL FOR PIPES ABOVE GRADE SEE DETAIL 6/P5.01

INSTALL FLEX CONNECTION BETWEEN BUILDING MODULES WHEN RUNNING PIPES THROUGH SEISMIC GAP, SEE DETAIL 13/P5.01

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DATE: 12/14/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

# RELOCATABLE SLAB ON GRADE BUILDING MODEL

40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
PLUMBING PLANS: 2M-RR & 6M-RR+JAN

DSA APP NO.
02-119613

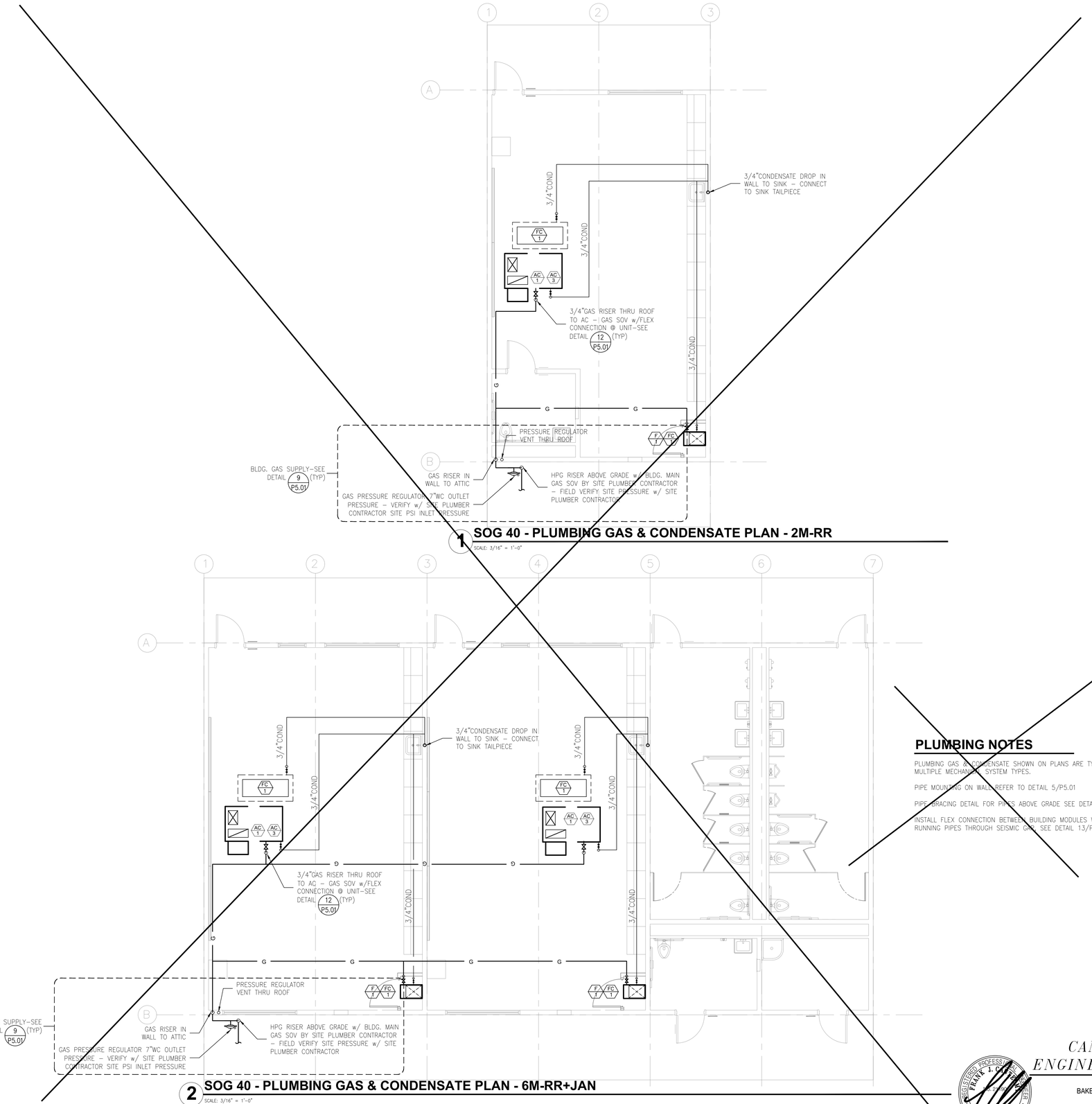
PROJECT NO.
06-0142

DRAWING
P1.02


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11/8/21


REGISTERED PROFESSIONAL ENGINEER FRANK J. CANTELMI No. 24... EXP. 12/31/... MECHANICAL STATE OF CALIFORNIA


File: S:\DWGS2020\JTS\PC SDG-40 C20-111\PC SDG-40 PLUMB C20-111_REV1.dwg date: 11/8/2021 10:33 AM




**1 SOG 40 - PLUMBING GAS & CONDENSATE PLAN - 2M-RR**
SCALE: 3/16" = 1'-0"

**2 SOG 40 - PLUMBING GAS & CONDENSATE PLAN - 6M-RR+JAN**
SCALE: 3/16" = 1'-0"

## PLUMBING NOTES

PLUMBING GAS & CONDENSATE SHOWN ON PLANS ARE TYPICAL FOR MULTIPLE MECHANICAL SYSTEM TYPES.

PIPE MOUNTING ON WALL: REFER TO DETAIL 5/P5.01

PIPE BRACING DETAIL FOR PIPES ABOVE GRADE SEE DETAIL 6/P5.01

INSTALL FLEX CONNECTION BETWEEN BUILDING MODULES WHEN RUNNING PIPES THROUGH SEISMIC GAP, SEE DETAIL 13/P5.01

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STRUCTURAL
STATE OF CALIFORNIA

DRAWN BY: ALV
CHECKED BY: GHA

# RELOCATABLE SLAB ON GRADE BUILDING MODEL
## 40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
PLUMBING PLANS: 2M-RR & 6M-RR+JAN

DSA APP NO.
02-119613

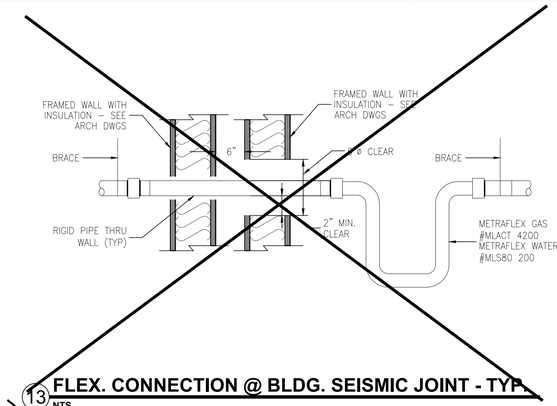
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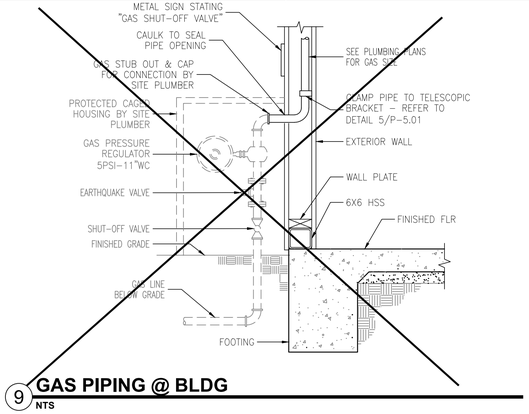

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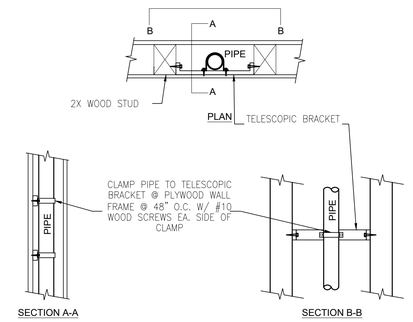

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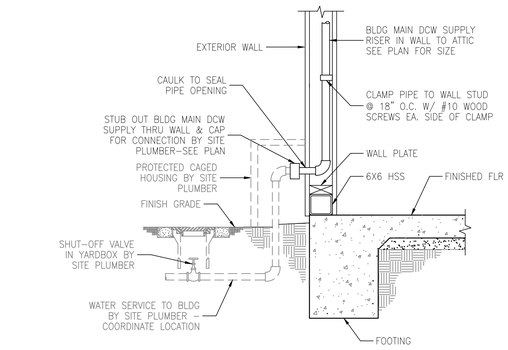

13 **FLEX. CONNECTION @ BLDG. SEISMIC JOINT - TYP.**
NTS



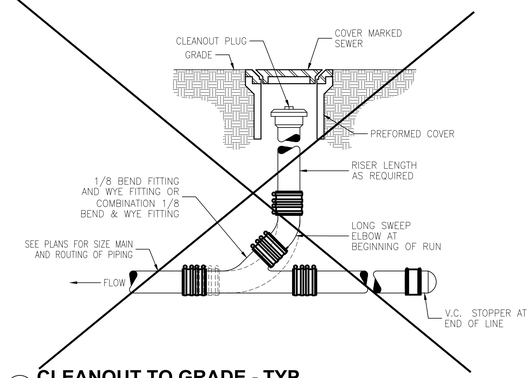

9 **GAS PIPING @ BLDG**
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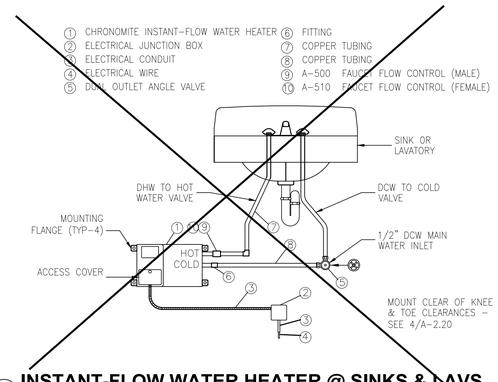

5 **PIPE MOUNTING**
NTS



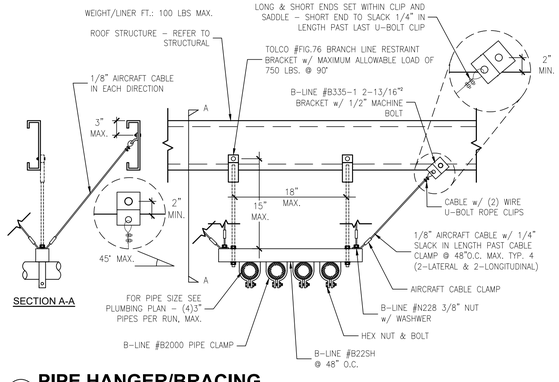

1 **BLDG MAIN WATER SUPPLY SOV**
NTS




14 **CLEANOUT TO GRADE - TYP.**
NTS

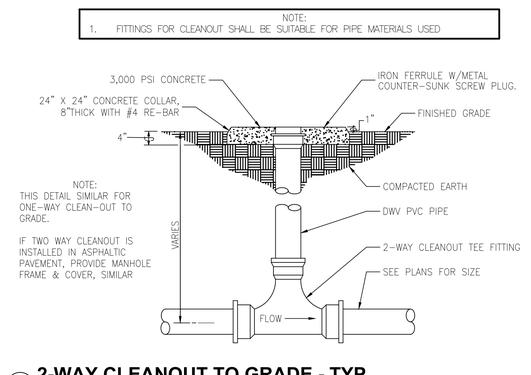



10 **INSTANT-FLOW WATER HEATER @ SINKS & LAVS.**
NTS

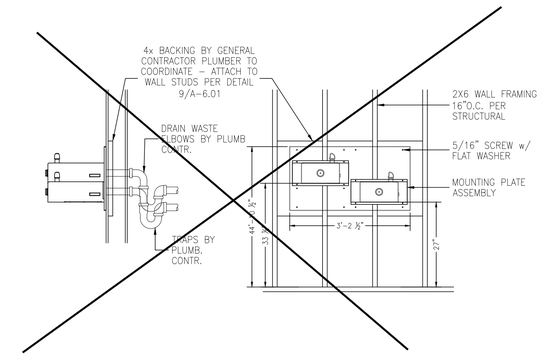



6 **PIPE HANGER/BRACING**
NTS

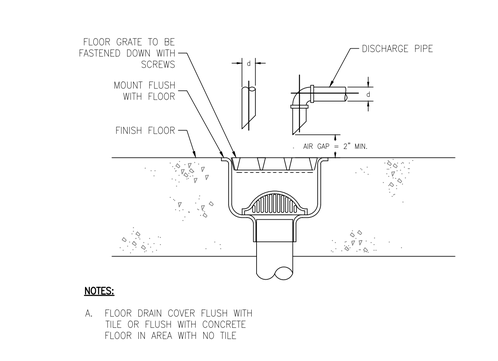
NOTE:
1. FITTINGS FOR CLEANOUT SHALL BE SUITABLE FOR PIPE MATERIALS USED




2 **2-WAY CLEANOUT TO GRADE - TYP.**
NTS

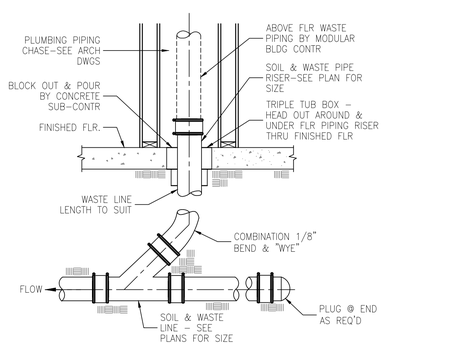



15 **HI-LO DRINKING FOUNTAIN (TYPICAL)**
NTS

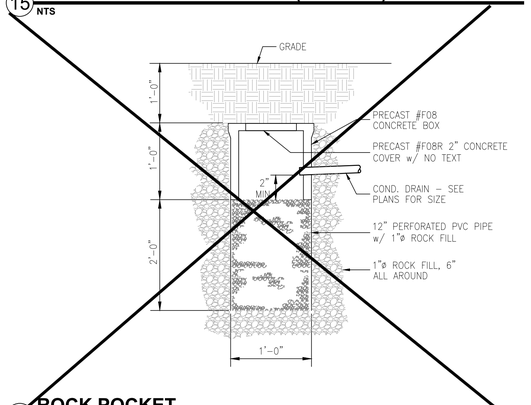



NOTES:
A. FLOOR DRAIN COVER FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE

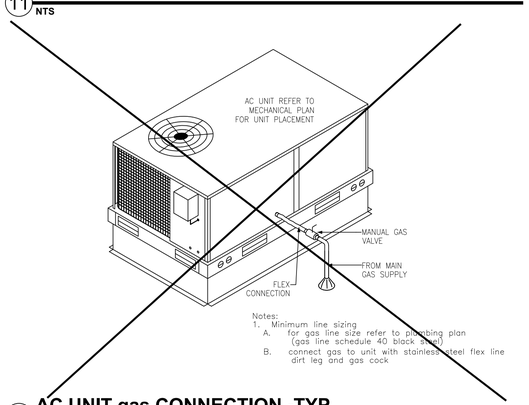
11 **FLOOR SINK "FS-1" DETAIL**
NTS




7 **S&W PIPE RISER THRU FLR - TYP.**
NTS

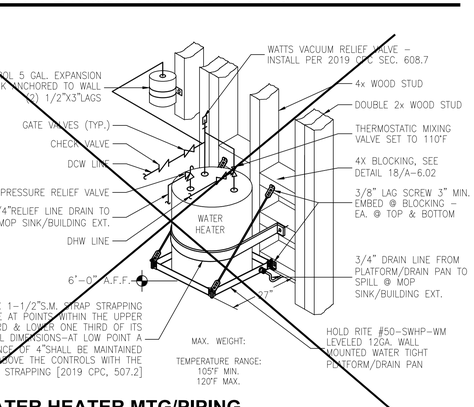



16 **ROCK POCKET**
NTS

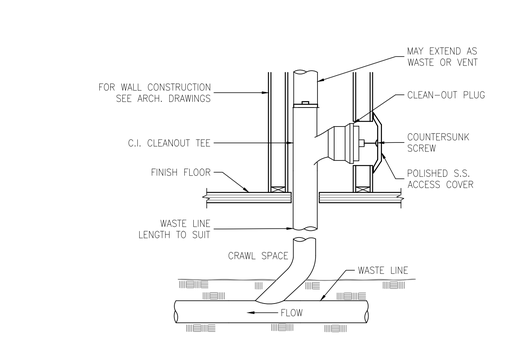



Notes:
1. Minimum line sizing
A. for gas line size refer to plumbing plan (gas line schedule 40 black steel) connect gas to unit with stainless steel flex line
B. dirt leg and gas cock

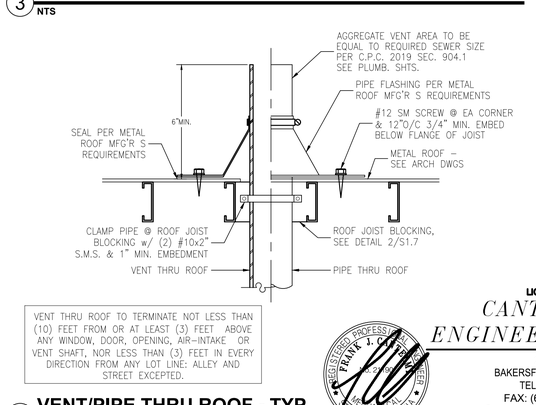
12 **AC UNIT gas CONNECTION -TYP.**
NTS




8 **WATER HEATER MTG/PIPING**
NTS




3 **WALL CLEANOUT - TYP.**
NTS




VENT THRU ROOF TO TERMINATE NOT LESS THAN (10) FEET FROM OR AT LEAST (3) FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR–INTAKE OR VENT SHAFT, NOR LESS THAN (3) FEET IN EVERY DIRECTION FROM ANY LOT LINE: ALLEY AND STREET EXCEPTED.

4 **VENT/PIPE THRU ROOF - TYP.**
NTS

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APP: 02-119613 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 03/04/2022

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A BETTER WAY TO BUILD
COMMERCIAL INSTITUTIONAL AND RESIDENTIAL MODULAR BUILDINGS DESIGN & PLANNING
7001 Mc Divitt Dr.
Bakersfield, CA 93313
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REGISTERED PROFESSIONAL ENGINEER RYAN J. OMELENCHUK No. S 4455 EXP. 12/31/22 STRUCTURAL STATE OF CALIFORNIA

DRAWN BY: ALV CHECKED BY: GHA

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DIV. OF THE STATE ARCHITECT
APP: 02-118526 INC:
REVIEWED FOR
SS ☐ FLS ☑ ACS ☑ CG ☑
DATE: 10/14/2021
PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

# RELOCATABLE SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
PLUMBING DETAILS

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
P5.01

LICENSE #C18218
CANTELMI ENGINEERING
2130 F STREET
BAKERSFIELD, CA 93301
TEL: (661) 324-5252
FAX: (661) 324-8439
Cantelmi@Cantelmi.NET
11/8/21

REGISTERED PROFESSIONAL ENGINEER FRANK J. CANTELMI No. 17868 CIVIL STATE OF CALIFORNIA

file: S:\DWG2020\JTS\PC SDG-40 C20-111\PC SDG-40 PLUMB C20-111_REV1.dwg date: 11/8/2021 10:33 AM

# PLUMBING FIXTURE SCHEDULE

| MARK | FIXTURE | DCW | DHW | S&W | TRAP | VENT | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| WC 1 | NON ACCESSIBLE FLOOR MNT. ADULT TOILET | 1-1/4" | – | 4" | INT. | 2" | KOHLER #K-96053 ELONGATED FLOOR MOUNTED FLUSH VALVE TOILET SYSTEM 1.28 GPF – BEMIS #1955CT OPEN FRONT SEAT – BOLT CAP KIT – SLOAN #111-1.28 XL MANUAL FLUSH VALVE – SHALL MEET CALGREEN STANDARDS |
| | NON ACCESSIBLE WALL HUNG ADULT TOILET | 1-1/4" | – | 4" | INT. | 2" | KOHLER #K-84325 ELONGATED WALL HUNG FLUSH VALVE TOILET SYSTEM 1.28 GPF – BEMIS #1955CT OPEN FRONT SEAT – BOLT CAP KIT – SLOAN #111-1.28 XL MANUAL FLUSH VALVE – JAY R SMITH #0211Y OR #0221Y WALL CLOSET SUPPORT SYSTEM – SHALL MEET CALGREEN STANDARDS |
| WC 2 | FLOOR MNT. WATER CLOSET AGES: 9-12 | 1-1/4" | – | 4" | INT. | 2" | KOHLER #K-96053 ELONGATED FLOOR MOUNTED FLUSH VALVE TOILET SYSTEM 1.28 GPF – BEMIS #1955CT OPEN FRONT SEAT – BOLT CAP KIT – SLOAN #111-1.28 XL MANUAL FLUSH VALVE – SHALL MEET CALGREEN STANDARDS – SEE ARCHITECTURAL DETAIL FOR ADA COMPLIANT MAX. HEIGHT |
| | FLOOR MNT. ACCESSIBLE ADULT TOILET | 1-1/4" | – | 4" | INT. | 2" | KOHLER #K-96057 ELONGATED FLOOR MOUNTED FLUSH VALVE TOILET SYSTEM 1.28 GPF – BEMIS #1955CT OPEN FRONT SEAT – BOLT CAP KIT – SLOAN #111-1.28 XL MANUAL FLUSH VALVE – SHALL MEET CALGREEN STANDARDS – SEE ARCHITECTURAL DETAIL FOR ADA COMPLIANT MAX. HEIGHT |
| | WALL HUNG ACCESSIBLE ADULT TOILET | 1-1/4" | – | 4" | INT. | 2" | KOHLER #K-84325 ELONGATED WALL HUNG FLUSH VALVE TOILET SYSTEM 1.28 GPF – BEMIS #1955CT OPEN FRONT SEAT – BOLT CAP KIT – SLOAN #111-1.28 XL MANUAL FLUSH VALVE – JAY R SMITH #0211Y OR #0221Y WALL CLOSET SUPPORT SYSTEM – SHALL MEET CALGREEN STANDARDS – SEE ARCHITECTURAL DETAIL FOR ADA COMPLIANT MOUNTING HEIGHT |
| WC 3 | PRIMARY FLOOR MNT. WATER CLOSET AGES: 3-4 | 1-1/4" | – | 4" | INT. | 2" | KOHLER #K-96064 ELONGATED FLOOR MOUNTED FLUSH VALVE CHILDREN TOILET SYSTEM 1.28 GPF – KOHLER #K-4686 ELONGATED TOILET SEAT – BOLT CAP KIT – SLOAN #111-1.28 XL MANUAL FLUSH VALVE – SHALL MEET CALGREEN STANDARDS – MANUFACTURED FOR KINDERGARTEN W/ MAX. HEIGHT OF 12" A.F.F. TO TOP OF SEAT |
| | JUVENILE FLOOR MNT. WATER CLOSET AGES: 5-8 | 1-1/4" | – | 4" | INT. | 2" | KOHLER #K-96059 ELONGATED FLOOR MOUNTED FLUSH VALVE JUVENILE TOILET SYSTEM 1.28 GPF – BEMIS #1955CT OPEN FRONT SEAT – BOLT CAP KIT – SLOAN #111-1.28 XL MANUAL FLUSH VALVE – SHALL MEET CALGREEN STANDARDS – MANUFACTURED FOR KINDERGARTEN W/ MAX. HEIGHT OF 15" A.F.F. TO TOP OF SEAT |
| UR 1 | URINAL | 1" | – | 2" | INT. | 2" | KOHLER #K-5452-ET URINAL WALL MOUNTED .125 GPF – SLOAN #186-0.125 XL MANUAL FLUSH VALVE – SHALL MEET CALGREEN STANDARDS – SEE ARCHITECTURAL DETAIL FOR ADA COMPLIANT MOUNTING HEIGHT |
| LA 1 | LAVATORY ADA | 1/2" | – | 2" | 1-1/4" | 2" | KOHLER "KINGSTON" #K-2005 LAVATORY WALL MTD – VITREOUS CHINA – COLD WATER METERING FAUCET CHICAGO #3400-ABCP – .5 GPM, MIN. 10 SEC. CYCLE TIME, MAX. 5LB ACTIVATION – KEENEY #5680PC GRID DRAIN – LAV GUARD2 #101 E-Z PIPING COVER – (1)ANGLE WALL STOP W/ FLEX RISER – KEENEY #305CPBNDF 1-1/2" 'P' TRAP – JONES STEPHENS SURE GRIP #E01-050 & E02-150 – BRASS CRAFT MULTI-TURN ANGLE STOP #OCR19X-C – JR SMITH #0722 WALL FIXTURE SUPPORT – INSULATE WATER SUPPLY & 'P' TRAP – METERING FAUCET SHALL REMAIN OPEN FOR 10 SECONDS MIN. – LAVATORY SHALL BE ADA COMPLIANT & MEET CALGREEN MAX. .5 GPM FLOW RATE (OR EQUAL) |
| LA 2 | LAVATORY ADA | 1/2" | 1/2" | 2" | 1-1/4" | 2" | KOHLER "KINGSTON" #K-2005 LAVATORY WALL MOUNTED – VITREOUS CHINA – HOT & COLD WATER METERING FAUCET CHICAGO #3600-E2805AB – .5 GPM, MIN. 10 SEC. CYCLE TIME, MAX. 5LB ACTIVATION – KEENEY #5680PC GRID STRAINER – (2)ANGLE WALL STOP W/ FLEX RISERS – LAV GUARD2 #102 E-Z PIPING COVER – KEENEY #305CPBNDF 1-1/2" 'P' TRAP – JONES STEPHENS SURE GRIP #E01-050 & E02-150 – BRASS CRAFT MULTI-TURN ANGLE STOP #OCR19X-C – JR SMITH #0722 WALL FIXTURE SUPPORT – CHICAGO #122-ABNF MIXING VALVE IN RECESSED WALL BOX W/ LOCKING HINGED COVER, VALVE SHALL BE ADJUSTED TO DELIVER A MAXIMUM OF 110°F – INSULATE WATER SUPPLY & 'P' TRAP – VERIFY HOLE DRILLING FOR FAUCET – METERING FAUCET SHALL REMAIN OPEN FOR 10 SECONDS MIN. – LAVATORY SHALL BE ADA COMPLIANT – FAUCET SHALL MEET CALGREEN MAX. .5 GPM FLOW RATE (OR EQUAL) |
| LA 3 | LAVATORY ADA | 1/2" | – | 2" | 1-1/4" | 2" | ZURN #Z5364-PED 20"X18" LAVATORY WALL MOUNTED VITREOUS CHINA W/ HALF PEDESTAL CONCEALING TRAPS & SUPPLIES – HANGER PLATE & CONCEALED ARM CARRIER SYSTEMS – COLD WATER METERING FAUCET CHICAGO #3400-ABCP – 0.5 GPM, MIN. 10 SEC. CYCLE TIME, MAX. 5LBS ACTIVATION – ZURN #Z8743-PC GRID STRAINER – ZURN #Z8946-1-NT ADA TRAP, STOP & SUPPLY PROTECTORS – LAV GUARD2 #102 E-Z PIPING COVER INSULATE WATER SUPPLY & 'P' TRAP – VERIFY HOLE DRILLING FOR FAUCET – LAVATORY SHALL BE ADA COMPLIANT – FAUCET SHALL MEET CALGREEN MAX. 0.5 GPM FLOW RATE (OR EQUAL) |
| LA 4 | LAVATORY ADA | 1/2" | 1/2" | 2" | 1-1/4" | 2" | ZURN #Z5364-PED 20"X18" LAVATORY WALL MOUNTED VITREOUS CHINA W/ HALF PEDESTAL CONCEALING TRAPS & SUPPLIES – HANGER PLATE & CONCEALED ARM CARRIER SYSTEMS – HOT & COLD WATER METERING FAUCET CHICAGO #3600-E2805AB – 0.5 GPM, MIN. 10 SEC. CYCLE TIME, MAX. 5LBS ACTIVATION – ZURN #Z8743-PC GRID STRAINER – ZURN #Z8946-1-NT ADA TRAP, STOP & SUPPLY PROTECTORS – LAV GUARD2 #102 E-Z PIPING COVER INSULATE WATER SUPPLY & 'P' TRAP – CHICAGO #122-ABNF MIXING VALVE IN RECESSED WALL BOX W/ LOCKING HINGED COVER, VALVE SHALL BE ADJUSTED TO DELIVER A MAXIMUM OF 110°F – VERIFY HOLE DRILLING FOR FAUCET – LAVATORY SHALL BE ADA COMPLIANT – FAUCET SHALL MEET CALGREEN MAX. 0.5 GPM FLOW RATE (OR EQUAL) |
| CS 1 | CLASSROOM SINK ADA | 3/4" | – | 2" | 1-1/2" | 2" | ELKAY #DRKAD311955 – 19.5"x31"x5.5" – SINGLE COMPARTMENT TYPE 304 STAINLESS STEEL SELF-RIMMING SINK – DEARBORN BRASS #815 FLAT TOP SINK STRAINER – CHICAGO #350-E35ABCP GOOSENECK SPOUT – CHICAGO #748-665TBABCP DRINKING FOUNTAIN – KEENEY #305CPBNDF 1-1/2" 'P' TRAP – JONES STEPHENS SURE GRIP #E01-050 & E02-150 – BASS CRAFT MULTI-TURN ANGLE STOP #CR1901LRX-C1 – LAV GUARD2 #101 E-Z PIPING COVER INSULATE WATER SUPPLY & 'P' TRAP |
| CS 2 | CLASSROOM SINK ADA | 3/4" | 3/4" | 2" | 1-1/2" | 2" | JUST #DL-ADA-17537-A-GR 37"X17.5"X5.5" 18 GA. DOUBLE COMPARTMENT TYPE 304 STAINLESS STEEL SINK – HOT & COLD WATER MANUAL FAUCET CHICAGO #786-E2805-5ABCP GOOSENECK SPOUT – JUST #J-35 DRAIN – LAV GUARD2 #102 E-Z PIPING COVER INSULATE WATER SUPPLY & 'P' TRAP –CHICAGO #122-ABNF MIXING VALVE IN RECESSED WALL BOX W/ LOCKING HINGED COVER, VALVE SHALL BE ADJUSTED TO DELIVER A MAXIMUM OF 110°F |
| CS 3 | CLASSROOM SINK ADA | 3/4" | 3/4" | 2" | 1-1/2" | 2" | JUST #CWH-2524 25"X24"X6" SINGLE COMPARTMENT TYPE 304 STAINLESS STEEL SINK – JUST #J-1176-KS-M-VR GOOSENECK SPOUT W/ VANDAL RESISTANT AERATOR AND HANDLES – JUST #JSB-10-VR 304 STAINLESS STEEL BUBBLER – JUST #J-ADA-35-SSF-VR STAINLESS STEEL GRID & P-TRAP – LAV GUARD2 #102 E-Z PIPING COVER INSULATE WATER SUPPLY & 'P' TRAP – CHICAGO #122-ABNF MIXING VALVE IN RECESSED WALL BOX W/ LOCKING HINGED COVER, VALVE SHALL BE ADJUSTED TO DELIVER A MAXIMUM OF 110°F |
| MS 1 | MOP SINK | 3/4" | 3/4" | 3" | 3" | 2" | ZURN #Z5850-D3 28"x28" FLOOR MTD MOP SINK 8" CURB – FLORESTONE #MR-370 5/8" HOSE & 5' CLAMP – CHICAGO #897-RCF FAUCET W/ VACUUM BREAKER – LOOSE KEY STOPS – LEVER HANDLES – INTEGRAL SHANK-STOPS & RUBBER HOSE W/ HOSE HOOK |
| WH 1 | WATER HEATER | 3/4" | 3/4" | – | – | – | PATRIOT PCE 10 10MSA ELECTRIC WATER HEATER 10 GAL – 6 kw – 28.8 FLA @208v/1ø 140lbs OPERATING WEIGHT (VERIFY SITE VOLTAGE PRIOR TO ORDERING) – W/ HOLD RITE QUICK STAND #50-SWHP-WM – AMTROL ST-5 THERMAL EXPANSION TANK (OR EQUAL) |
| HB 1 | NON-FREEZE HOSE BIBB | 3/4" | – | – | – | – | WOODFORD #68 – NON-FREEZE INTEGRAL VACUUM BREAKER – DUAL CHECK HYDRANT – RECESSED HOSE BOX – W/ LOCKING DOOR – 1/4TURN CERAMIC FULL FLOW VALVE W/ WHEEL HANDLE & SCREW DRIVER OPERATED STOP |
| | MILD CLIMATE HOSE BIBB | 3/4" | – | – | – | – | WOODFORD #MB224 – MILD CLIMATE – RECESSED HOSE MODULAR 14GA. BOX SYSTEM W/ LOCKING DOOR – INTEGRAL VACUUM BREAKER – WHEEL HANDLE & INTEGRAL WATER SUPPLY STOP |
| DF 1 | INTERIOR DRINKING FOUNTAIN ADA | 1/2" | – | 2" | 1-1/4" | 2" | ELKAY #EZSTL8WSLK BI-LEVEL WATER COOLER PUSH BAR ACTIVATED – 8 GPM – 4 AMPS @ 115V/60HZ (OR EQUAL) |
| DF 2 | EXTERIOR DRINKING FOUNTAIN ADA | 1/2" | – | 2" | 1-1/4" | 2" | ELKAY #EHWM217C BI-LEVEL WATER COOLER PUSH BAR ACTIVATED BARRIER FREE ACCESS – 8 GPM – 4 AMPS @ 115V/60HZ W/ #MPW200 WALL BRACKET (OR EQUAL) |
| TP 1 | TRAP PRIMER | 1/2" | – | – | – | – | PRECISION PLUMBING #PR-500 "PRIME-RITE" PRESSURE DROP ACTIVATED – DISTRIBUTION UNIT #DU-U – ELMDOR ACCESS DOOR #DW12"X12" – PRIMER LINE BELOW FLOOR TO FLOOR DRAIN/SINK (MAX. 4 FLOOR DRAINS PER TRAP PRIMER) |
| RD 1 | ROOF DRAIN | – | – | 4" | – | – | TECH SPECIALTIES FRANK PATTERN #850-4N 4"x4" COMBINATION ROOF DRAIN & OVERFLOW – NO HUB |
| FD 1 | FLOOR DRAIN | – | – | 2" | 1/2" | 2" | TECH SPECIALTIES FRANK PATTERN #N702W5375R 7"ADJUSTABLE FLOOR DRAIN w/ MEMBRANE CLAMP – 5" ROUND GRATE – NO HUB – 2" DRAIN – TRAP PRIMER CONNECTION – FLOOR DRAIN OPENINGS SHALL BE 1/2" MAX. |
| SA 1 | SHOCK ABSORBER | – | – | – | – | – | ZURN #1700 SHOCK ABSORBER – SERIES SIZED PER MANUFACTURER'S REQUIREMENTS |
| H 1 | INSTANT ELECTRIC HEATER | 1/2" | 1/2" | – | – | – | EEMAX #SP2412 SINGLE POINT ELECTRIC TANKLESS WATER HEATER – .5 GPM – OUTLET TEMPERATURE 105°-110° BRAIDED STAINLESS STEEL FLEX CONNECTORS – 2.4KW – 20 AMPS @ 120v/1ø (OR EQUAL) – LOCATE CLEAR OF REQUIRED KNEE & TOE CLEARANCE WHERE OCCURS @ SINKS & LAVS. – SEE DETAIL 10/P5.01 |
| FS 1 | FLOOR SINK | – | – | 2" | 1/2" | 2" | ZURN LIGHT COMMERCIAL #FD2375-NH2 – CAST IRON – DOME BOTTOM STRAINER – DOUBLE DRAINAGE FLANGE – NO HUB OUTLET |
| TV 1 | TEMP CONTROL VALVE | 1/2" | 1/2" | – | – | – | SYMMONS #5-102A-W TEMPCONTROL VALVE THERMOSTATIC MIXING VALVE – 1/2"INLETS AND 1/2"OUTLET – SWIVEL ACTION CHECK STOPS – REMOVABLE CARTRIDGE WITH VOLUME CONTROL SHUT-OFF VALVE – DIAL THERMOMETER – STAINLESS STEEL PISTON AND LIQUID FILL THERMAL MOTOR BELLOWS ELEMENT MOUNTED OUT OF WATER – STD. ROUGH BRONZE FINISH – WALL MOUNTING BRACKET VACUUM BREAKER – VALVE SHALL BE ADJUSTED TO DELIVER A MAXIMUM OF 140°F |
| CP 1 | CONDENSATE PUMP | – | – | – | – | – | LITTLE GIANT CONDENSATE PUMP #VCMA-20UL DISCHARGE SIZE 3/8" OD BARBED 1/30HP 115V 60HZ 1.5AMPS 93W 5 LBS |

**NOTE:**

**ALL PLUMBING FIXTURES SHALL MEET 2019 CALGREEN MANDATORY MEASURES MAXIMUM FLOW RATE AT 20% REDUCTION PER TABLE 5.303.2.3**

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REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4
EXP. 9/30/22
STRUCTURAL
STATE OF CALIFORNIA

DRAWN BY: ALV
CHECKED BY: GHA

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DIV. OF THE STATE ARCHITECT
APP: 02-118526 INC:
REVIEWED FOR
SS ☐ FLS ☑ ACS ☑ CO ☑
DATE: 12/14/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

# RELOCATABLE SLAB ON GRADE BUILDING MODEL
## 40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
PLUMBING SCHEDULE

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
P5.02


LICENSE #E18218
CANTELMI ENGINEERING
2130 F STREET
BAKERSFIELD, CA 93301
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Cantelmi@Cantelmi.NET
11/8/21


REGISTERED PROFESSIONAL ENGINEER
FRANK J. CANTELMI
No. E18218
ELECTRICAL
STATE OF CALIFORNIA


file: S:\DWGS2020\JTS\PC SDG-40 C20-111\PC SDG-40 PLUMB C20-111_REV1.dwg date: 11/8/2021 10:33 AM

# JTS Modular, Inc
# Construction Waste Management Plan

Project Name:
Job #:
Project Manager:
Waste Hauling Company:
Contact Name:

All contractors/subcontractors shall comply with the project's Construction Waste Management Plan.
All contractors/subcontractors foreman shall sign the CWM Plan acknowledgment Sheet.

Contractors/Subcontractors who fail to comply with the Waste Management Plan will be subject to back charges or withholding of payment, as deemed appropriate. For instance, contractors/subcontractors who contaminate debris boxes that have designated for a single material type will be subject to back charge or withheld payment, as deemed appropriate.

1. The project's overall rate of waste diversion will be ≥ 65%
2. This project shall generate the least amount of waste possible by planning and ordering carefully, following all proper storage and handling procedures to reduce broken and damaged materials and reusing materials whenever possible. The majority of the waste that is generated on the jobsite will be diverted from the landfill and recycled for other use.
3. Spreadsheet 1, enclosed, identifies the waste materials that will be generated on this project, the diversion strategy for each waste type and the anticipated diversion rate.
4. Waste prevention and recycling activities will be discussed at the beginning of weekly subcontractor meetings. As each new subcontractor comes on-site, the WMP coordinator will present him/her with a copy of CWM Plan and provide a tour of the jobsite to identify materials to be salvaged and the procedures for handling jobsite debris. All subcontractor foreman will acknowledge in writing that they have read and will abide by the SWM Plan. Contractor/Subcontractor acknowledgement sheet is attached. The CWM plan will be posted at the jobsite trailer.
5. Salvage: Excess Materials that cannot be used in any project, nor returned to the vendor, will be offered to site workers, the owner, or donated to charity if feasible.
6. (Hauling Company) will provide a commingled drop box at the jobsite for most of the construction waste. These commingled drop boxes will be taken to (Sorting Facility Name, and Location). The average diversion rate for commingled waste will be ≥ 65%. As site conditions permit, additional drop boxes will be used for particular phases of construction (e.g., concrete and wood waste) to ensure the highest waste diversion rate possible.
7. In the event that the waste diversion rate achievable via the strategy described in (6) above, is projected to be lower than what is required, then a strategy of source-separated waste diversion and/or waste stream reduction will be implemented. Source separated waste refers to jobsite waste that is not commingled but is instead allocated to a debris box designated for a single material type, such as clean wood or metal.

**NOTES:**

1. Waste stream reduction refers to efforts taken by the builder to reduce the amount of waste generated by the project to below four (4) pounds per square foot of building area.
2. When using waste stream reduction measures, the gross weight of the product is subtracted from a base weight of four (4) pounds per square foot of building area. This reduction is considered additional diversion and can be used in the waste reduction percentage calculations.

8. (Hauling Company) will track and calculate the quantity (in tons) of all waste leaving the project and calculate the waste diversion rate for the project. (Hauling Company) will provide Project Manager with an updated monthly report on gross weight hauled and the waste diversion rate being achieved on the project. (Hauling Company's) monthly report will track separately the gross weights and diversion rates for commingled debris and for each source-separated waste stream leaving the project. In the event that (Hauling Company) does not service any or all of the debris boxes on the project, the (hauling company) will work with the responsible parties to track the material type and weight (in tons) in such debris boxers in order to determine waste diversion rates for these materials.
9. In the event that contractor/subcontractors furnish their own debris boxes as part of their scope of work, such contractors/subcontractors shall not be excluded from complying with the CWM Plan and will provide (Hauling Company) weight and waste diversion data for their debris boxes.
10. In the event that site use constraints (such as limited space) restrict the number of debris boxes that can be used for collection of designated waste the project superintendent will, as deemed appropriate, allocate specific areas onsite where individual material types are to be consolidated. These collection points are not to be contaminated with non-designated waste types.
11. Debris from jobsite office and meeting rooms will be collected by (Disposal Service Company). (Disposal Service Company) will, at a minimum, recycle office paper, plastic, metal, and cardboard.

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REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4
EXP. 12/31/22
STRUCTURAL
STATE OF CALIFORNIA

DRAWN BY: ALV
CHECKED BY: GHA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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DATE: 12/14/2021

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
DSA APPLICATION NUMBER
02-118526
A separate project application for construction is required

MODULAR
SLAB ON GRADE BUILDING MODEL
40'-0" WIDE MODULAR BUILDING

DRAWING TITLE
**WASTE MGMT. PLAN**

DSA APP NO.
02-119613

PROJECT NO.
06-0142

DRAWING
**WM-1.00**

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