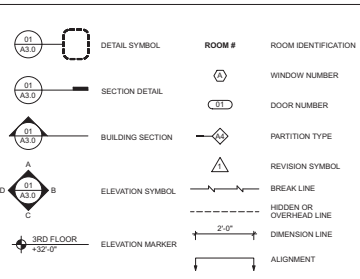


00-0000

ABBREVIATIONS

Table of abbreviations including AB ANCHOR BOLT, AC AIR CONDITIONING, AD ACoustICAL ACCESS DOOR, AREA DRAN, ADDL ADDITIONAL, AFF ABOVE FINISHED FLOOR, AL ALUMINUM, ALT ALTERNATE, ALUM ALUMINUM, ANDD ANODIZED, APPO APPROVED, APPROX APPROXIMATE, ARCH ARCHITECT, AUTO AUTOMATIC, AVS AVERAGE, BDRM BEDROOM, BELN BELOW, BTWN BETWEEN, BLDG BUILDING, BLK BLOCK, BLOC BLOCKING, CB CATCH BASIN, CCW COUNTER CLOCKWISE, CEM CEMENT, CER CERAMIC, CFT CUBIC FOOT, CIP CAST-IN-PLACE, CTRL CONTROL, CLNT CENTERLINE, CLG CEILING, CLR CLEAR, CMU CONCRETE MASONRY UNIT, CONC CONCRETE, CONT CONTINUOUS, CPRT CARPET, DBL DOUBLE, DEG DEGREE, DEM DEMOLISH, DEMO DEMOLITION, DET DETAIL, DIA DIAGONAL, DIA DIAMETER, DIM DIMENSION, DN DOWN, DTL DETAIL, DWG DRAWING, DS DOWNSPOUT, EA EACH, EJC EXPANSION JOINT, ELECTR ELECTRICAL, ENGR ENGINEER, EQ EQUAL, EQUIP EQUIPMENT, EX EXISTING, FDN FOUNDATION, FE FIRE EXTINGUISHER, FEC FIRE EXTINGUISHER CABINET, FHC FINISHED FLOOR, FHR FIRE HOSE CABINET, FLR FLOOR, FOS FACE OF STUDS, FP FIREPROOF, FT FEET, FTG FOOTING, GA GAUGE, GALV GALVANIZED, GB GYPSUM BOARD, GC GENERAL CONTRACTOR, GL GLASS, GRND GROUND, GWB GYPSUM WALL BOARD, H HIGH, HORIZ HORIZONTAL, HR HOUR, ID INSIDE DIAMETER, IN INCH, INFO INFORMATION

SYMBOLS



GENERAL NOTES

- 1. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE PREMISES AND SHALL BASE HIS BID ON THE EXISTING CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND FIELD CONDITIONS.
2. THE WORK INCLUDED UNDER THIS CONTRACT SHALL INCLUDE ALL LABOR, MATERIALS, TRANSPORTATION, TOOLS AND EQUIPMENT NECESSARY FOR THE CONSTRUCTION OF THE PROJECT, LEAVING ALL WORK READY FOR USE.
3. PRIOR TO CONSTRUCTION, DISCREPANCIES BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE REPORTED TO THE ARCHITECT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH THE APPLICABLE UNIFORM BUILDING CODE, HANDCAP ACCESS CODE AND ALL APPLICABLE ORDINANCES, INCLUDING STATE AND LOCAL BUILDING CODES AND REQUIREMENTS.
5. THESE PLANS INDICATE THE GENERAL EXTENT OF DEMOLITION AND NEW CONSTRUCTION NECESSARY FOR THE WORK, BUT ARE NOT INTENDED TO BE ALL INCLUSIVE. ALL DEMOLITION AND ALL NEW WORK SHALL BE ACCORDING TO A FINISHED JOB IN ACCORDANCE WITH THE INTENTION OF THESE DOCUMENTS. SHALL BE INCLUDED REGARDLESS OF WHETHER SHOWN ON THE DRAWINGS OR IN THE NOTES. DO NOT DEMOLISH ANY ITEMS THAT APPEAR STRUCTURAL UNLESS SPECIFICALLY NOTED TO BE DEMOLISHED IN THE CONSTRUCTION DOCUMENT, WITHOUT PRIOR REVIEW AND WRITTEN APPROVAL BY THE ARCHITECT.
6. ANY ERRORS, OMISSIONS, AND CONFLICTS FOUND IN THESE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND OWNER FOR CLARIFICATION BEFORE PROCEEDING WITH WORK.
7. ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS NOTED OTHERWISE. ALL DIMENSIONS SHALL BE VERIFIED.
8. THE CONTRACTOR SHALL CONFER IN WRITING APPROXIMATE ON-SITE DELIVERY DATES FOR ALL CONSTRUCTION ITEMS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS AND SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY POSSIBLE DELAYS AFFECTING OCCUPANCY.
9. THE CONTRACTOR SHALL PROVIDE A SCHEDULE FOR CONSTRUCTION AS REQUIRED TO MEET THE OWNER'S PHASING REQUIREMENTS AND ULTIMATE COMPLETION DATE.
10. THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST IN THE LOCATION OF ANY AND ALL MECHANICAL, ELECTRICAL, TELEPHONE, PLUMBING AND FIRE SPRINKLER WORK (INCLUDING PIPING, DUCTWORK AND CONDUIT), AND THAT ALL CLEARANCES FOR INSTALLATION AND MAINTENANCE ARE PROVIDED.
11. NO WORK DEFECTIVE IN CONSTRUCTION OR QUALITY OR DEVIATION IN ANY REQUIREMENT OF THE CONTRACT DOCUMENTS WILL BE ACCEPTABLE IN A CONSEQUENCE OF THE CONTRACTOR'S FAILURE TO DISCOVER OR REPORT OR POINT OUT DEFICIENCIES OR DEFECTS DURING CONSTRUCTION. DEFECTIVE WORK SHALL BE REPAIRED AT THE TIME OF SUBMISSION AND THE CONTRACTOR SHALL BE REPLACED BY WORK CONFORMING TO THE INTENT OF THE CONTRACT. NO REPAIRS, EITHER PARTIAL OR FINAL, SHALL BE CONSIDERED AS ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.
12. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGES CAUSED BY CONTRACTOR AND SUB-CONTRACTORS.
13. THE CONTRACTOR SHALL REVIEW, APPROVE, STAMP AND SUBMIT WITH REASONABLE PROMPTNESS AND IN SUCH MANNER AS TO AVOID DELAY IN THE WORK, PRODUCT DATA, SHOP DRAWINGS AND SAMPLES FOR THE PROJECT.
14. BY APPROVING, STAMPING AND SUBMITTING SHOP DRAWINGS, PRODUCT DATA AND SAMPLES, THE CONTRACTOR REPRESENTS THAT HE HAS DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS, AND FIELD CONSTRUCTION CRITERIA RELATED THERETO AND THAT HE HAS CHECKED AND COORDINATED THE INFORMATION WITH SUCH SUBMITTALS WITH THE REQUIREMENTS OF THE WORK AND CONTRACT DOCUMENTS.
15. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ANY DEVIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT'S REVIEW OF THE SHOP DRAWINGS, PRODUCT DATA OR SAMPLES. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
16. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT THREE (3) PRINTS, TYPICALLY OF EACH SHOP DRAWING SUBMITTAL PLUS THREE (3) COPIES OF EITHER PRODUCT DATA OR SAMPLES.
17. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR DIMENSIONS OR QUANTITIES ON REVIEWED SUBMITTALS.
18. SUBSTITUTIONS, REVISIONS AND/OR CHANGES MUST HAVE PRIOR WRITTEN APPROVAL BY THE ARCHITECT.
19. THE CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION FOR USE BY ALL TRADES AND SHALL PROVIDE ALL SUB-CONTRACTORS WITH CURRENT CONSTRUCTION DOCUMENTS AS REQUIRED.
20. THE CONTRACTOR SHALL PROVIDE COMPLETE PRODUCT DATA AND RELATED INFORMATION APPROPRIATE FOR THE OWNER'S MAINTENANCE AND OPERATION OF PRODUCTS FURNISHED UNDER THE CONTRACT.
21. WORK UNDER THIS CONTRACT SHALL BE WARRANTED BY THE CONTRACTOR AGAINST ALL DEFECTS FOR ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE WORK OR DESIGNATED PORTIONS THEREOF OR FOR ONE (1) YEAR AFTER ACCEPTANCE BY THE OWNER OF DESIGNATED EQUIPMENT. IN THE CASE OF ITEMS REMAINING UNCOMPLETED AFTER THE DATE OF SUBSTANTIAL COMPLETION, THE ONE-YEAR WARRANTY PERIOD SHALL BE FROM DATE OF ACCEPTANCE OF SUCH ITEMS.
22. EACH TRADE SHALL EXAMINE THE PREMISES TO INSURE THAT CONDITIONS ARE APPROPRIATE FOR HIS WORK TO COMMENCE. PRIOR TO COMMENCING HIS WORK, AREAS NOT APPROPRIATE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. COMMENCING WORK IMPLIES ACCEPTANCE OF EXISTING CONDITIONS.
23. THE GENERAL CONTRACTOR SHALL ASSIST IN THE COORDINATION AND BE RESPONSIBLE FOR THE INSTALLATION OF N.I.C. ITEMS, INCLUDING BUT NOT LIMITED TO FURNITURE, EQUIPMENT, APPLIANCES, PLUMBING FIXTURES, DISHWASHERS, VOICEDATA CABLING, TELEPHONE WORK, ETC.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE INSTALLATION AS REQUIRED FOR ACCESSORY ITEMS INCLUDING SINK, DISHWASHER, REFRIGERATOR, LAUNDRY EQUIPMENT, ETC.
25. ALL DRAWINGS AND NOTES ARE CONSIDERED COMPLEMENTARY AND WHAT IS CALLED FOR BY EITHER WILL BE AS BY THE OTHER IF CALLED FOR BY ALL. ANY WORK SHOWN OR REFERRED TO ON ANY ONE SET OF DRAWINGS SHALL BE PROVIDED AS THOUGH SHOWN ON ALL RELATED DRAWINGS.
26. VERIFY ALL ARCHITECTURAL DETAILS AND COORDINATE DRAWINGS WITH STRUCTURAL AND MEP DRAWINGS BEFORE INITIATION OF ANY RELATED WORK.
27. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS, INDUSTRY AND BUILDING STANDARDS AND CONSTRUCTION REQUIREMENTS. SEALANT, WEATHERSTRIPPING, AND FLASHING LOCATIONS IN DRAWINGS ARE NOT INTENDED TO BE INCLUSIVE.
28. LARGER SCALE DETAILED DRAWINGS SUPERCEDES SMALLER SCALED ELEVATION AND PLAN DRAWINGS.

APPLICABLE CODES

ALL CODES REFERENCED ARE TO BE USED AS AMENDED BY THE STATE OF CALIFORNIA AND LOCAL JURISDICTION.
2019 CALIFORNIA BUILDING CODE
2019 CALIFORNIA MECHANICAL CODE
2019 CALIFORNIA ELECTRICAL CODE
2019 CALIFORNIA PLUMBING CODE
2019 CALIFORNIA GREEN BUILDING CODE
2019 CALIFORNIA FIRE CODE
2019 CALIFORNIA ENERGY CODE

PROJECT TEAM

OWNER: COUNTY OF NEVADA CONTACT: TIM HORNER 950 MADRID AVENUE NEVADA CITY, CA 95959 T (530) 265-1238
ARCHITECT: RUSSELL DAVIDSON ARCHITECTURE + DESIGN CONTACT: RUSSELL DAVIDSON 149 CROWN POINT CT, SUITE A GRASS VALLEY, CA 95945 (530) 913-2370
STRUCTURAL ENGINEER:
ELECTRICAL ENGINEER:
MECHANICAL ENGINEER:
CIVIL ENGINEER:

CODE ANALYSIS

Table with columns: OCCUPANCY, CONSTRUCTION TYPE, BUILDING AREA, SPRINKLER SYSTEM, BEARING WALLS (EXTERIOR), BEARING WALLS (INTERIOR), STRUCTURAL FRAME, PERMANENT PARTITIONS, SHAFT ENCLOSURES, FLOOR-CEILING, ROOF-CEILING, EXTERIOR DOORS & WINDOWS, GLASS OPENING IN 1-HR CORRIDOR. Includes AS PER 2019 CBC TABLE 601 and FIRE RESISTANCE details.

2. OCCUPANCY SEPARATIONS

THE PROPOSED BUILDING IS TO BE TREATED AS A SINGLE OCCUPANCY I-3 WITH AN S-3 OCCUPANCY AND ACCESSORY USE ROOMS THAT ARE LESS THAN 10% OF THE TOTAL ALLOWABLE AREA OF THE PRIMARY OCCUPANCY, AS PER CBC SECTION 508.2.1 THRU 508.2.5.3.

PROJECT DATA

SITE DATA: ADDRESS 15434 CA-49 NEVADA CITY, CA 95959 A.P.N.: 005-090-015 ELEVATION: 2,690 SNOW LOAD: 49 LB/SF WIND EXPOSURE: C CLIMATE ZONE: 11 ZONING: P SITE AREA: 10.09 ACRES
BUILDING ANALYSIS: OCC. GROUP: I-3, S-1 CONST. TYPE: B FIRE SPRINKLERS: YES

SCOPE OF WORK

PROJECT CONSISTS OF THE FOLLOWING WORK:
(N) 207 SF SERVER ROOM WITHIN (E) BUILDING FOOTPRINT
(E) REPLACE (E) WALLS WITH (N) BALLISTICS GLASS
(N) INT. WALLS FOR DISPATCH ENTRANCE
(N) RECEPTION DESK
(N) BREAK ROOM MILLWORK AND EQUIPMENT
FULL DISABLED ACCESS COMPLIANCE WILL BE ACHIEVED WITH IMPROVEMENTS

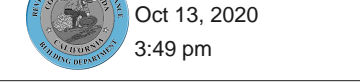
DEFERRED SUBMITTALS

THE FOLLOWING SUBMITTALS WILL BE DEFERRED:
ANSUL FIRE SUPPRESSION SYSTEM

SPECIAL INSPECTIONS

THE FOLLOWING SPECIAL INSPECTIONS ARE REQUIRED:
EPOXY ANCHORS
FIELD WELDING

VICINITY MAP



SHEET INDEX

Table with columns: TITLE, REV.#. Includes titles like T0.1 TITLE SHEET, C1 TITLE SHEET, C2 DEMOLITION PLAN, C3 IMPROVEMENT PLAN, C4 ADA DETAIL SHEET, and architectural details A1 through A8.3.

SCOPE OF WORK

PROJECT CONSISTS OF THE FOLLOWING WORK:
(N) 207 SF SERVER ROOM WITHIN (E) BUILDING FOOTPRINT
(E) REPLACE (E) WALLS WITH (N) BALLISTICS GLASS
(N) INT. WALLS FOR DISPATCH ENTRANCE
(N) RECEPTION DESK
(N) BREAK ROOM MILLWORK AND EQUIPMENT
FULL DISABLED ACCESS COMPLIANCE WILL BE ACHIEVED WITH IMPROVEMENTS

DEFERRED SUBMITTALS

THE FOLLOWING SUBMITTALS WILL BE DEFERRED:
ANSUL FIRE SUPPRESSION SYSTEM

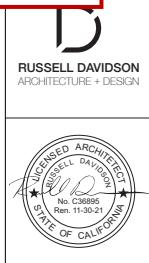
SPECIAL INSPECTIONS

THE FOLLOWING SPECIAL INSPECTIONS ARE REQUIRED:
EPOXY ANCHORS
FIELD WELDING

VICINITY MAP



FIELD SET



FIELD SET

NEVADA COUNTY YOUTH CENTER DISPATCH REMODEL
15434 CA-49 NEVADA CITY, CA 95959 A.P.N.: 005-090-015

SUBJECT TO FIELD INSPECTION

Final inspection required from Nev City Consolidated Fire prior to building final inspection.

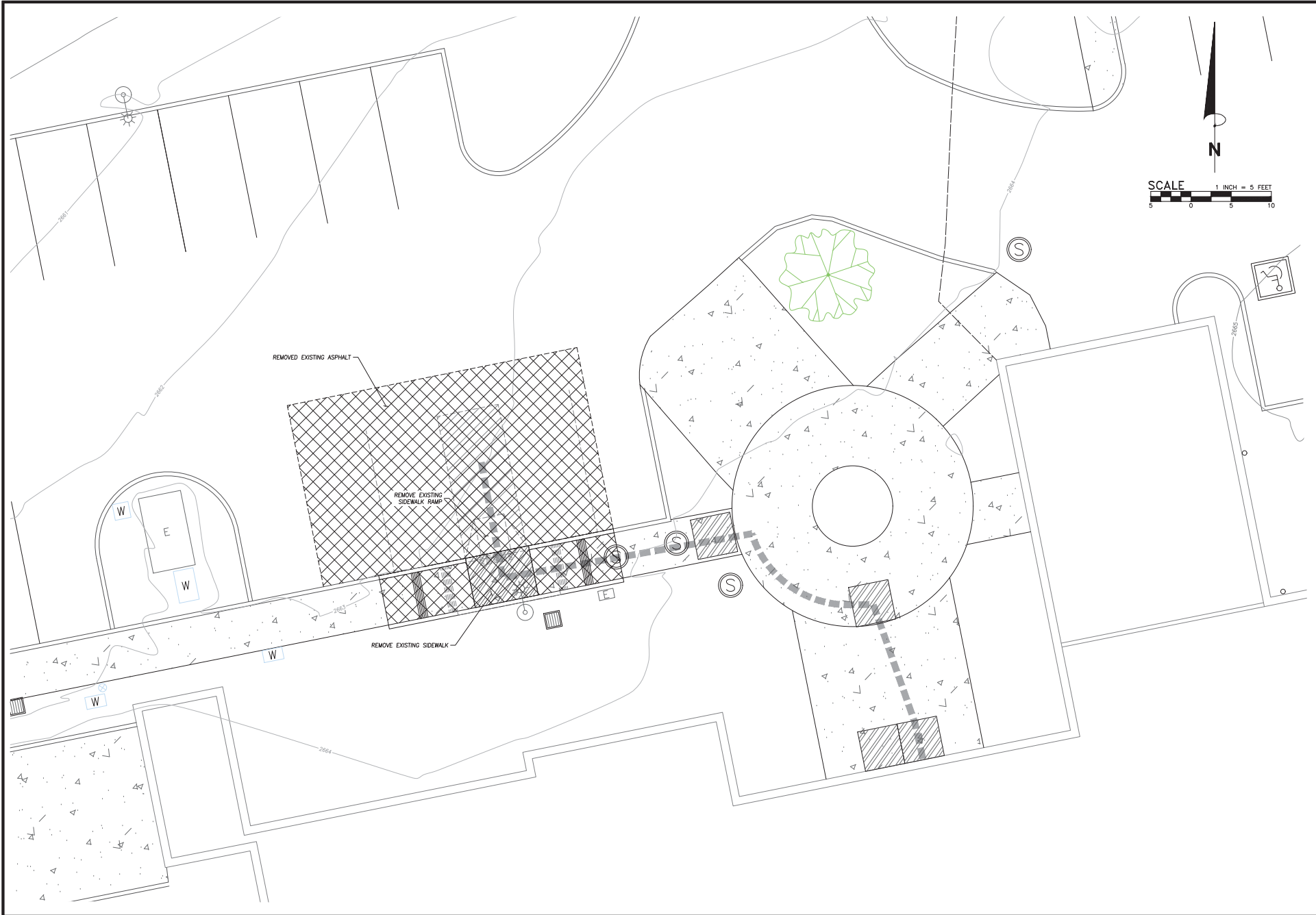


Craig Griesbach
Oct 13, 2020
3:49 pm

FIELD SET

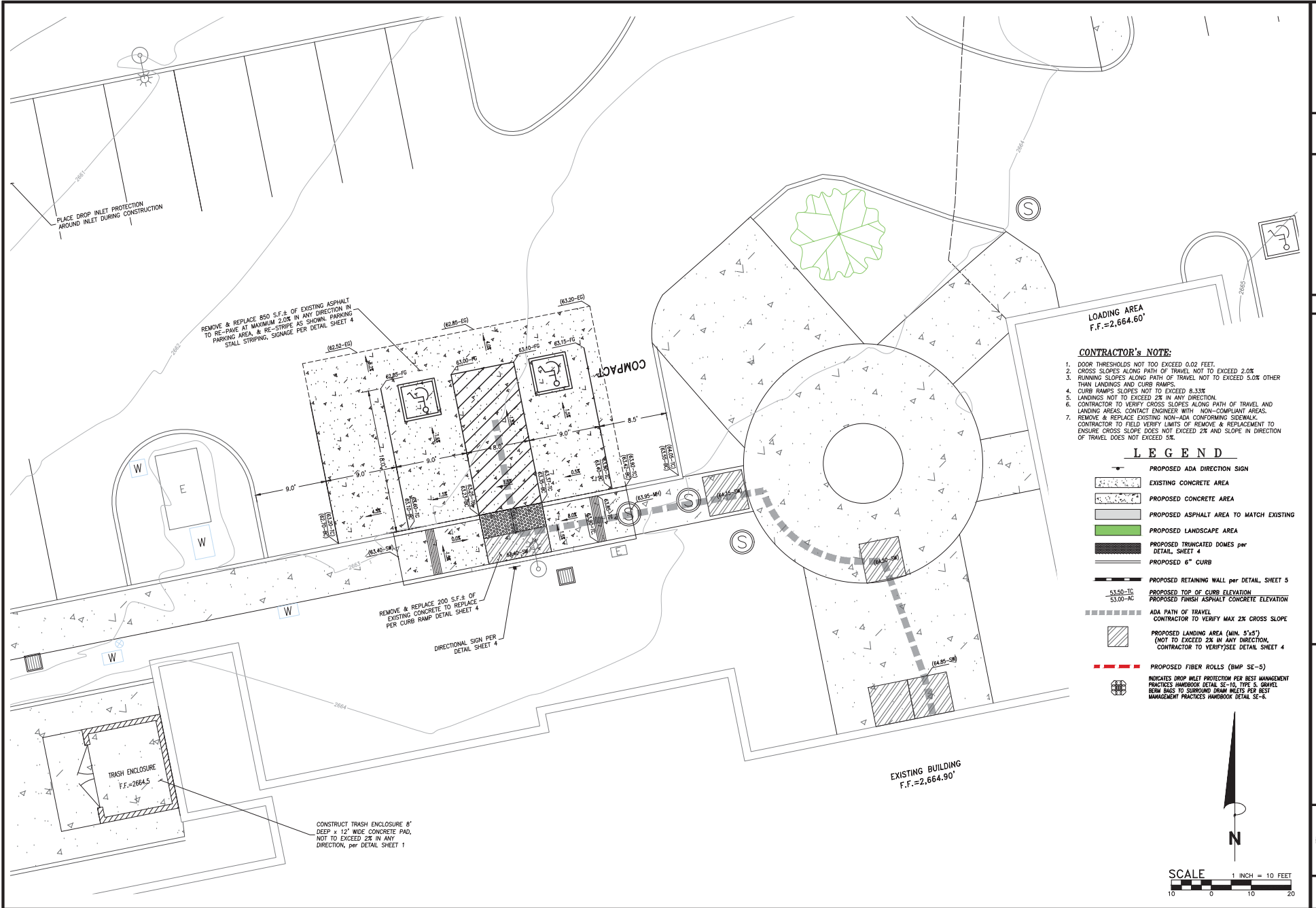
T0.1





<b>DEMOLITION PLAN FOR:</b> <b>JUVENILE HALL</b> <b>15434 STATE HIGHWAY 49</b> A.P.N. 005-050-015 COUNTY OF NEVADA, CALIFORNIA		NO. REVISIONS _____ DATE _____	DESIGNED: JAH DRAWN: JAH CHECKED BY: JAH DATE: April 24, 2020 PROJECT No.: 19-256 FIRM NAME: 19-256 Juvenile Hall Demolition
<b>NELSON ENGINEERING</b> Civil Engineering, Surveying, & Land Planning 14028 Commerce Court Las Vegas, NV 89134 Tel: 702.735.8800 Fax: 702.735.8801 www.nelsoneng.com		REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA CIVIL No. 55101 Exp. 6-30-2025	2 OF 4

**FIELD SET**



REMOVE & REPLACE 650 S.F.± OF EXISTING ASPHALT TO RE-PAVE AT MAXIMUM 2.0% IN ANY DIRECTION IN PARKING AREA & RE-STRIPE AS SHOWN. PARKING STALL STRIPING, SIGNAGE PER DETAIL SHEET 4

REMOVE & REPLACE 200 S.F.± OF EXISTING CONCRETE TO REPLACE PER CURB RAMP DETAIL SHEET 4

CONSTRUCT TRASH ENCLOSURE 8' DEEP x 12' WIDE CONCRETE PAD, NOT TO EXCEED 2% IN ANY DIRECTION, PER DETAIL SHEET 1

LOADING AREA  
F.F. = 2,664.60'

EXISTING BUILDING  
F.F. = 2,664.90'

**CONTRACTOR'S NOTE:**

1. DOOR THRESHOLDS NOT TO EXCEED 0.02 FEET.
2. CROSS SLOPES ALONG PATH OF TRAVEL NOT TO EXCEED 2.0%
3. RUNNING SLOPES ALONG PATH OF TRAVEL NOT TO EXCEED 5.0% OTHER THAN LANDINGS AND CURB RAMP.
4. CURB RAMP SLOPES NOT TO EXCEED 8.33%
5. LANDINGS NOT TO EXCEED 2% IN ANY DIRECTION.
6. CONTRACTOR TO VERIFY CROSS SLOPES ALONG PATH OF TRAVEL AND LANDINGS AREAS. CONTACT ENGINEER WITH NON-COMPLIANT AREAS.
7. REMOVE & REPLACE EXISTING NON-ADA CONFORMING SIDEWALK. CONTRACTOR TO FIELD VERIFY LIMITS OF REMOVE & REPLACEMENT TO ENSURE CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN DIRECTION OF TRAVEL DOES NOT EXCEED 5%.

**LEGEND**

- PROPOSED ADA DIRECTION SIGN
- EXISTING CONCRETE AREA
- PROPOSED CONCRETE AREA
- PROPOSED ASPHALT AREA TO MATCH EXISTING
- PROPOSED LANDSCAPE AREA
- PROPOSED TRUNCATED DOMES per DETAIL SHEET 4
- 
- PROPOSED RETAINING WALL per DETAIL SHEET 5
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED FINISH ASPHALT CONCRETE ELEVATION
- ADA PATH OF TRAVEL  
CONTRACTOR TO VERIFY MAX 2% CROSS SLOPE
- PROPOSED LANDING AREA (MIN. 5'x5')  
(NOT TO EXCEED 2% IN ANY DIRECTION.  
CONTRACTOR TO VERIFY) SEE DETAIL SHEET 4
- PROPOSED FIBER ROLLS (BMP SE-5)
- INDICATES DROP INLET PROTECTION PER BEST MANAGEMENT PRACTICES HANDBOOK DETAIL SE-10. TYPE 5 GRAVEL BERM BAGS TO SURROUND DRAIN INLETS FOR BEST MANAGEMENT PRACTICES HANDBOOK DETAIL SE-6.



SCALE 1 INCH = 10 FEET

DESIGNED BY: JAH	DATE:
DRAWN BY: JAH	NO. REVISIONS:
CHECKED BY: JAH	
DATE: JUL 31, 2020	
PROJECT NO.: TP-256	
DWG. NAME: 15434 Juvenile Hall Renovation	

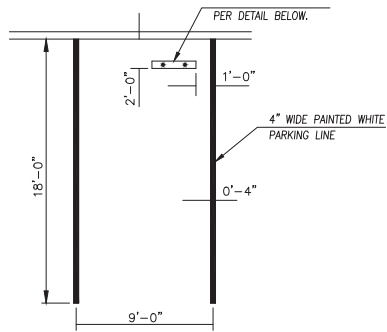
SITE PLAN FOR:  
**JUVENILE HALL**  
**15434 STATE HIGHWAY 49**  
A.P.N. 005-050-015  
COUNTY OF NEVADA, CALIFORNIA

<b>NELSON</b> <b>ENGINEERING</b>	14028 Campus Court Las Vegas, NV 89139 Tel: 702.734.8800 www.nelsoneng.com

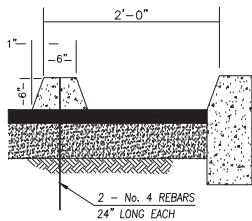
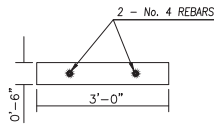
**3 OF 4**

**FIELD SET**



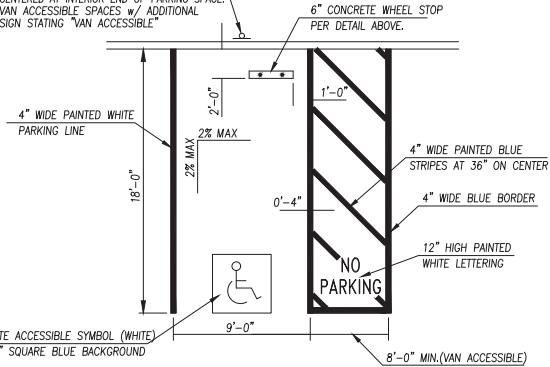


**STANDARD PARKING SPACE**

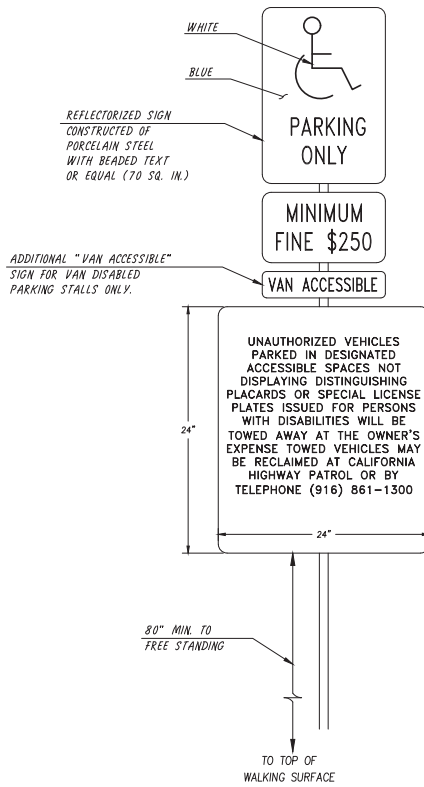


**STANDARD WHEEL STOP DETAIL**

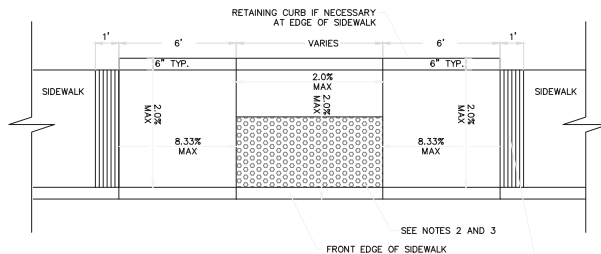
ACCESSIBLE PARKING SIGN PER DETAIL RIGHT CENTERED AT INTERIOR END OF PARKING SPACE. VAN ACCESSIBLE SPACES w/ ADDITIONAL SIGN STATING "VAN ACCESSIBLE"



**ACCESSIBLE PARKING SPACE**

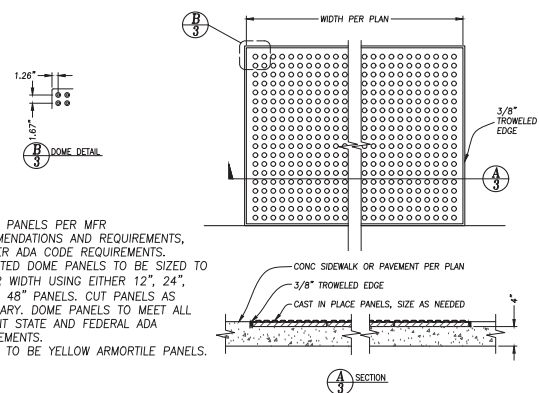


**ACCESSIBLE PARKING SIGN**



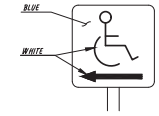
**ACCESSIBLE CURB RAMP**

- NOTES:
1. THE CURB RAMP SHALL BE OUTLINED AS SHOWN WITH A 1'-0" WIDE BORDER WITH 1/2" GROOVES APPROXIMATELY 2" ON CENTER, 1" DEEP
  2. CURB RAMP SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3'-0" DEPTH OF THE RAMP. SEE AR DWGS
  3. THE EDGE OF THE DETECTABLE WARNING SURFACE NEAREST THE VEHICULAR WAY SHALL BE BETWEEN 6" AND 8" FROM THE FACE OF CURB.

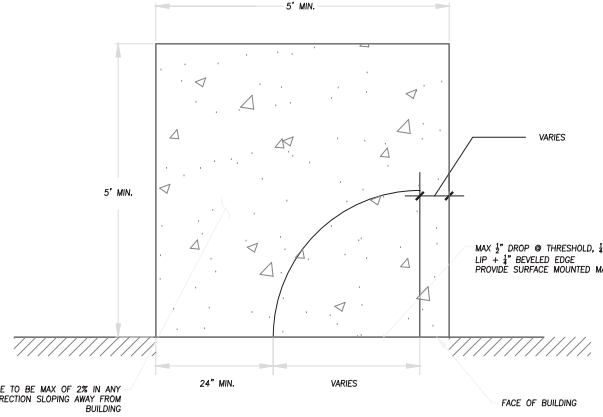


**TRUNCATED DOMES DETAIL**

- NOTES:
1. INSTALL PANELS PER MFR RECOMMENDATIONS AND REQUIREMENTS, AND PER ADA CODE REQUIREMENTS.
  2. TRUNCATED DOME PANELS TO BE SIZED TO PROPER WIDTH USING EITHER 12", 24", 36" OR 48" PANELS. CUT PANELS AS NECESSARY. DOME PANELS TO MEET ALL CURRENT STATE AND FEDERAL ADA REQUIREMENTS.
  3. PANELS TO BE YELLOW ARMORTILE PANELS.



**ACCESSIBILITY ISA DIRECTIONAL SIGN**

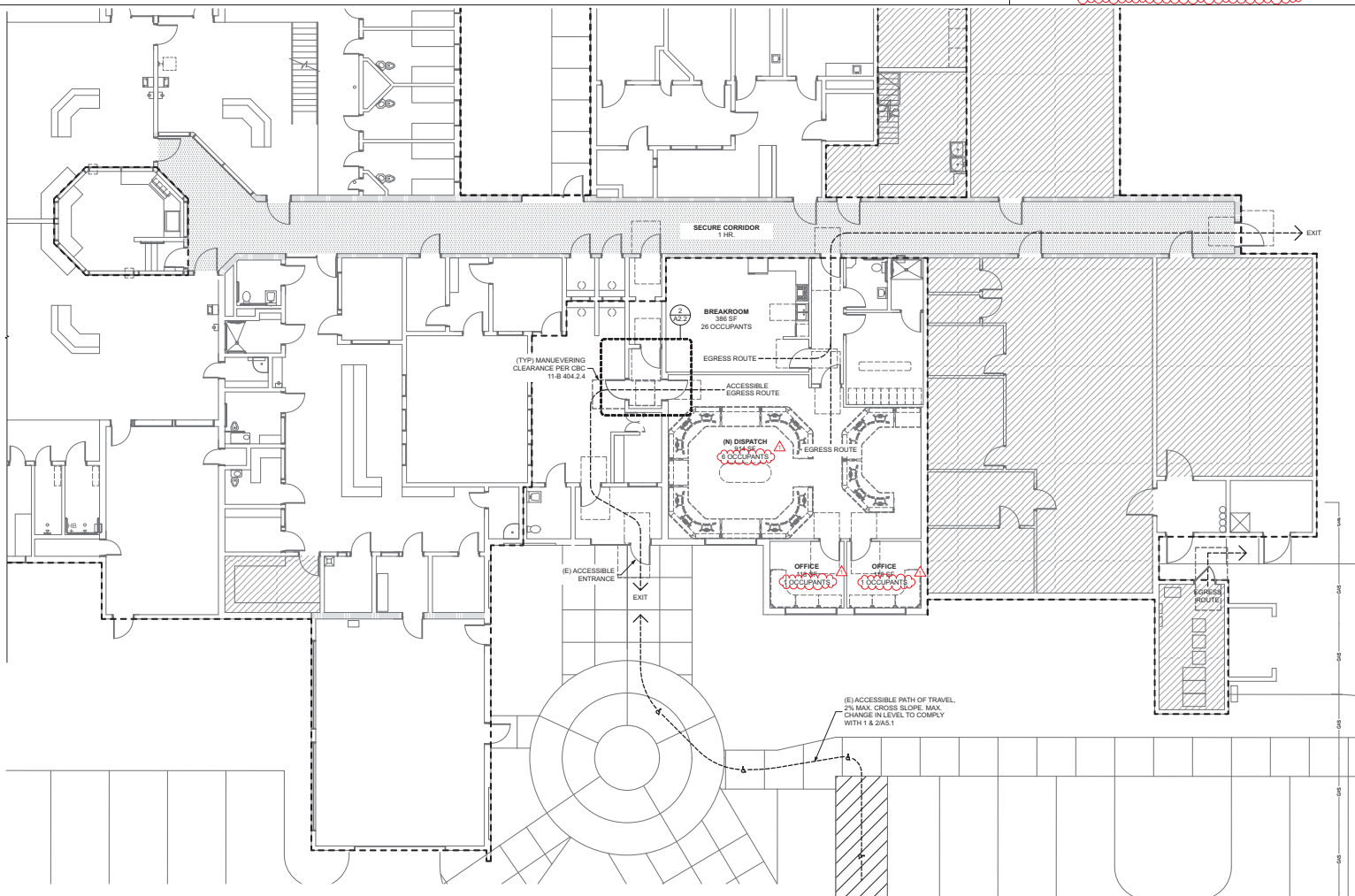
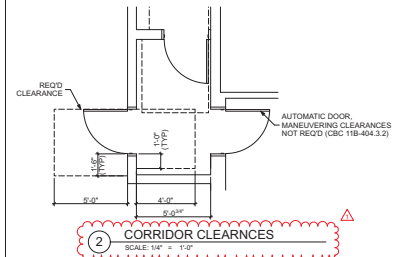


**LANDING DETAIL**

NO.	REVISIONS	DATE	DESIGNED: JAH	CHECKED: JAH	DATE: JUL 31, 2020	PROJECT: No. 19-256	FIG. NAME: 19-256, Juvenile Hall Entry
ACCESSIBILITY DETAILS FOR:		<b>JUVENILE HALL</b> <b>15434 STATE HIGHWAY 49</b> A.P.N. 005-050-015 COUNTY OF NEVADA, CALIFORNIA					
<b>NELSON ENGINEERING</b> Civil Engineering, Surveying, & Land Planning 14028 Camino Court San Jose, CA 95131 Tel: 408.261.0000 www.nelsoneng.com		REGISTERED PROFESSIONAL ENGINEER No. 55101 Exp. 6-30-2009 CIVIL STATE OF CALIFORNIA					
4		OF 4					

**FIELD SET**





**NOTES**

1. SEE (TYP) ACCESSIBILITY DETAILS FOR DOOR CLEARANCES
  2. THROUGH PENETRATIONS OF FIRE-RESISTANCE RATED WALLS SHALL COMPLY WITH THE FOLLOWING:
    - A. PENETRATIONS SHALL BE INSTALLED AS TESTED IN AN APPROVED FIRE-RESISTANCE RATED ASSEMBLY.
    - B. THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED.
- EXCEPTION: WHERE THE PENETRATING ITEMS ARE STEEL, FERROUS OR COPPER PIPES, TUBES OR CONDUITS, THE ANNULAR SPACE BETWEEN THE PENETRATING ITEM AND THE FIRE-RESISTANCE RATED WALL IS PERMITTED TO BE PROTECTED AS FOLLOWS:
- I. IN CONCRETE OR MASONRY WALLS WHERE THE PENETRATING ITEM IS A MAXIMUM 6-INCH NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THE WALL DOES NOT EXCEED 144 SQUARE INCHES, CONCRETE, GROUT OR MORTAR IS PERMITTED WHERE IT IS INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE RATING; OR
  - II. THE MATERIAL USED TO FILL THE ANNULAR SPACE SHALL PREVENT THE PASSAGE OF FLAME AND NOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHEN SUBJECTED TO ASTM E119 OR UL 203 TIME-TEMPERATURE FIRE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED.



**RUSSELL DAVIDSON**  
ARCHITECTURE + DESIGN

**NEVADA COUNTY YOUTH CENTER  
DISPATCH REMODEL**

15434 CA-49  
NEVADA CITY, CA 95959  
APN: 005-090-015

ID	NAME	DATE
1	SUBMITAL	7/31/20
	REV 1	9/29/20

SCALE: AS NOTED  
DRAWN BY: RPD  
CHECKED BY: RPD  
JOB: 2019-17

**LEGEND**

- ROOMS W/ 1-HOUR REQUIRED SEPARATION [Hatched Box]
- 1 HR. CORRIDOR [Solid Black Box]
- 1 HR. WALL [Thick Solid Line]
- 2 HR. WALL [Thin Solid Line]
- PRIMARY SECURITY PERIMETER [Dashed Line]
- EGRESS PATH [Dashed Arrow]
- ACCESSIBLE PATH OF TRAVEL [Dashed Arrow with Circles]

**EGRESS & ACCESSIBILITY PLAN**

**A2.2**

**FIELD SET**

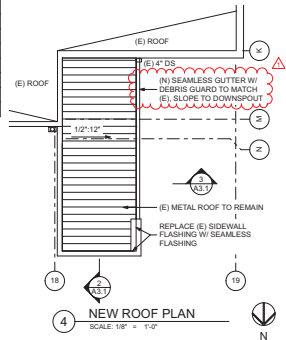
05/20/20

DOOR SCHEDULE										
ID	ROOM	LOCATION	W	H	FRAME	DOOR MATERIAL	DOOR FINISH	FRAME FINISH	FIRE RATING	NOTES
01		INT	3'-0"	7'-0"	TIMELY MASONRY	STEEL	KM4903 ZNK DUST	CC905 BLACK NICKEL	20 MIN	
02		INT	3'-0"	7'-0"	TIMELY TA-23	SC WOOD	KM4903 ZNK DUST	CC905 BLACK NICKEL	20 MIN	
03		EXT	3'-0"	7'-0"	TBD	STEEL	KM4903 ZNK DUST	CC905 BLACK NICKEL	45 MIN	
04		INT	3'-0"	7'-0"	TIMELY TA-23	STEEL	KM4903 ZNK DUST	CC905 BLACK NICKEL	20 MIN	
05		INT	3'-0"	7'-0"					N/A	(E)
06		INT	3'-0"	7'-0"					N/A	(E)

HARDWARE SCHEDULE											
DOOR #	ROOM	THRESHOLD PERMO 1775A	CLOSER NORTON 7160 OR 7160	CLOSER NORTON 7160 OR EG	ELECTRIC STRIKE	LOCKSET SCHLAGE NORTON 2314 BACKSET	SCHLAGE C KEYTRV. KEYING BY OWNER	HID RP40 CARD READER-IN	HID RP46 CARD READER-OUT	HID RP440 CARD READER-OUT	4" NONREMOVABLE PFR RINGS
01	169 VESTIBULE				X	X	X	X			
02	176 CORRIDOR				X	X	X	X			
03	200 SERVER ROOM	X	X		X	X	X			X	X
04	170 DISPATCH				X	X	X	X			
05	160 RECEPTION							X	X		
06	158 VISIT. ENT.							X		X	

NOTES:  
 1. PROVIDE HARDWARE SCHEDULE SUBMITTAL AFTER VERIFYING ALL LOCK FUNCTIONS, STYLE, FINISH, ADDITIONAL HARDWARE, AND LOCATION W/ OWNER.  
 2. VERIFY KEYING W/ OWNER.

WINDOW SCHEDULE						
ID	QTY	W	H	HDR	MFR / MODEL	NOTES
A	3	6'-0"	5'-0"	7'-0"		LEVEL 3 RESISTANCE BALLISTICS GLASS, 1 1/8" THICK TEMPERED / POLYCARBONATE GLASS UNIT, MIRRORING ONE WAY VISION. PROVIDE VERTICAL BLINDS EA. WINDOW.



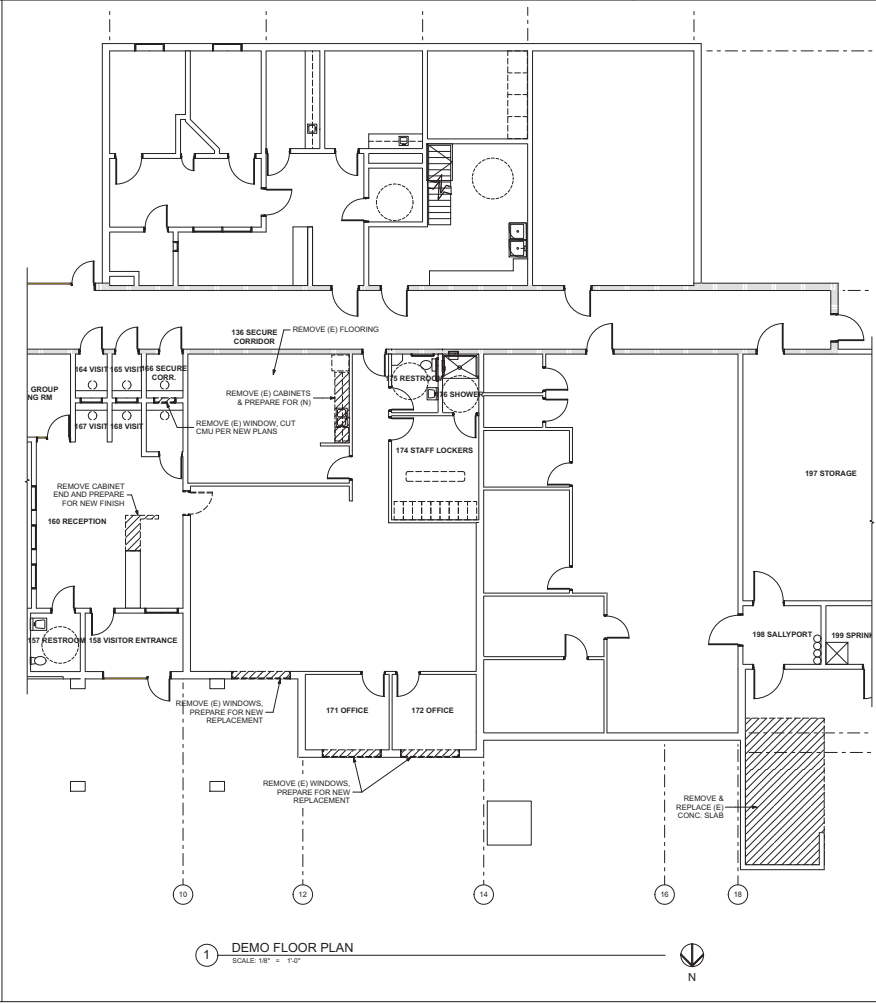
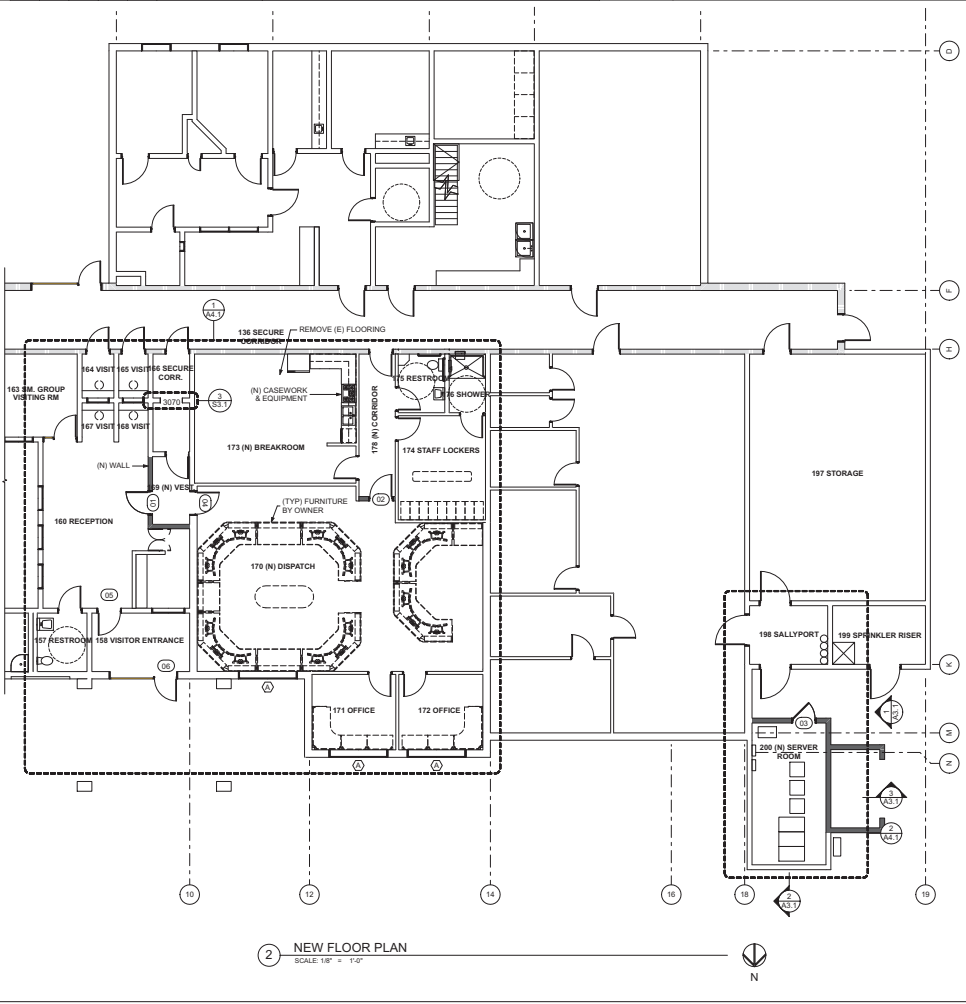
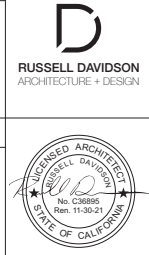
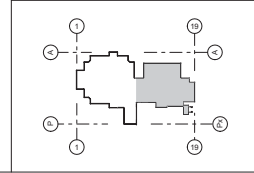
NOTES

- THESE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. ADDITIONAL DATA SHALL BE FROM THE ARCHITECT THROUGH WRITTEN CLARIFICATION ONLY. VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS BEFORE PROCEEDING WITH ANY PORTION OF ANY WORK.
- PROVIDE LEVER TYPE DOOR HANDLES, OPERABLE BY A SINGLE EFFORT WITH NO GRASPING OR HAND MOVEMENT REQUIRED. INTERIOR DOORS: 5 LBS. FIRE DOORS: 15 LBS. EXTERIOR DOORS: 8" LBS.
- PROVIDE SIGNAGE AT ALL ROOMS PER CBC 11B-216.2
- AUTOMATIC SPRINKLER SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF NFPA 13. PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE STOPPING SHALL BE APPROVED MATERIAL AS PRESCRIBED IN CBC 714. INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE LOCAL FIRE DEPARTMENT AT VARIOUS STAGES AND AT COMPLETION THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF THE ENFORCING AGENCY.
- PROVIDE 5/8" WATER RESISTANT GYPSUM WALLBOARD AT ALL WET LOCATIONS INCLUDING ON WALLS BEHIND ALL PLUMBING FIXTURES.
- PROVIDE CONCEALED CONTINUOUS 6" WIDE 16 GA. STEEL WALL REINFORCING FOR ALL WALL MOUNTED EQUIPMENT, UPPER CABINETS, GRAB BARS, ETC.
- PROVIDE VERTICAL BLINDS AT ALL NEW EXTERIOR WINDOWS.
- FLAME SPREAD OF INTERIOR FINISHES SHALL BE CLASS B OR BETTER.
- ALL GYPSUM WALLBOARD TO BE 5/8" TYPE "X"

WALL LEGEND



KEY PLAN



**NEVADA COUNTY YOUTH CENTER  
 DISPATCH REMODEL**  
 15434 CA-49  
 NEVADA CITY, CA 95959  
 APN: 005-0-09-015

ID	NAME	DATE
1	SUBMITTAL	7/31/20
	REV 1	9/29/20

SCALE: AS NOTED  
 DRAWN BY: RPD  
 CHECKED BY: RPD  
 JOB: 2019-17

**DEMO PLAN, NEW FLOOR & ROOF PLAN**

A2.3

FIELD SET

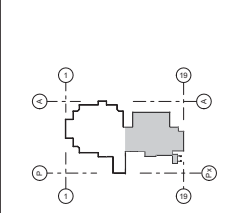
**FINISH SCHEDULE**

NAME	FINISH SCHEDULE							NOTES
	FLOOR	BASE	WALL	MOULDING	CEILING	CEILING CROWN	CLG. HT	
(N) BREAKROOM	FL-1	RB-1	PT-1		(E)		(E)	
(N) CORRIDOR	(E)	RB-1	PT-1		(E)		(E)	
(N) DISPATCH	(E)	(E)	(E)		(E)		(E)	
(N) SERVERROOM	FL-2	RB-1	PT-1		AC-1		9'-0"	
(N) VEST.	(E)	RB-1	PT-1		AC-1		9'-0"	

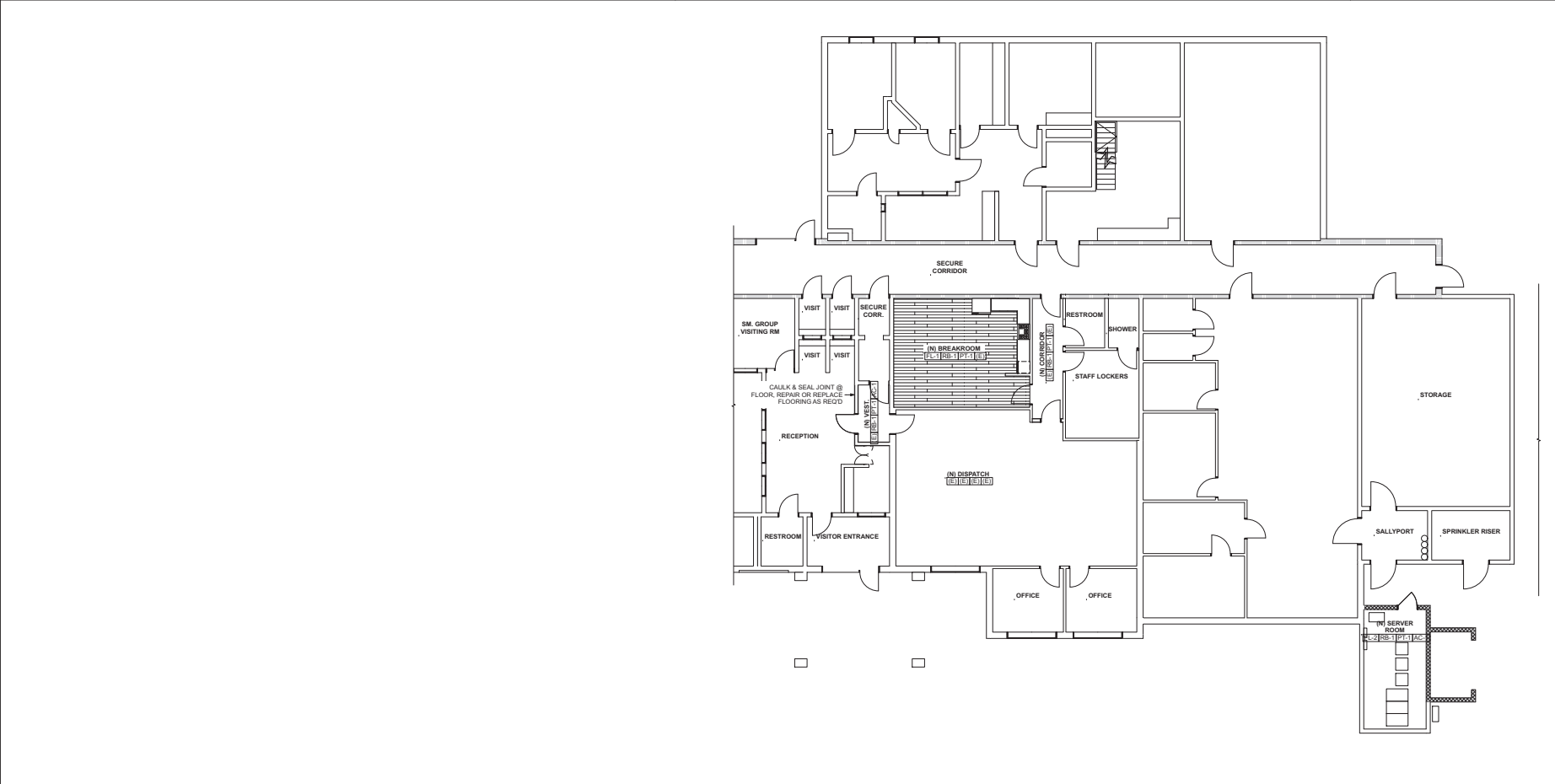
**FINISH LEGEND**

<b>INTERIOR PAINT</b>						
CODE	DESCRIPTION	MANUFACTURER	COLOR	FINISH	LOCATION	
PT-1	INTERIOR PAINT	KELLY MOORE	KM4884 GRAY GHOST	SEE SPECS	REFER TO PLAN	
<b>FLOORING</b>						
CODE	DESCRIPTION	MANUFACTURER	MODEL NO.	COLOR	LOCATION	
FL-1	VINYL PLANK	PHILADELPHIA	TRANSCEND 5529V	00765 PORTABELLO	BREAKROOM	
FL-2	SEALED CONC.	CURECRETE	ASHFORD FORMULA	TRANSPARENT	SERVER ROOM	
<b>BASES</b>						
CODE	DESCRIPTION	MANUFACTURER	MATERIAL	COLOR	SIZE	LOCATION
RB-1	RESILIENT BASE	BURKE	RUBBER	217 CHARCOAL	4"	REFER TO PLAN
<b>CEILING</b>						
CODE	DESCRIPTION	MANUFACTURER	MATERIAL	COLOR	LOCATION	
AC-1	ACOUSTICAL CEILING	MATCH (E)	MATCH (E)	WHITE	REFER TO PLAN	

**KEY PLAN**



**RUSSELL DAVIDSON**  
ARCHITECTURE + DESIGN



1 1ST FLOOR FINISH PLAN  
SCALE: 1/8" = 1'-0"

**NEVADA COUNTY YOUTH CENTER  
DISPATCH REMODEL**

15434 CA-49  
NEVADA CITY, CA 95959  
APN: 005-090-015

ID	NAME	DATE
	SUBMITAL	7/31/20
SCALE	AS NOTED	
DRAWN BY:	RPD	
CHECKED BY:	RPD	
JOB:	2019.17	

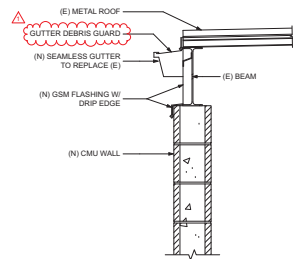
**FINISH PLAN**

**A2.4**

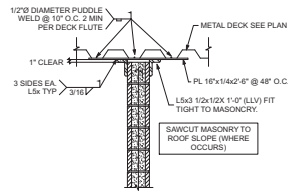
**FIELD SET**



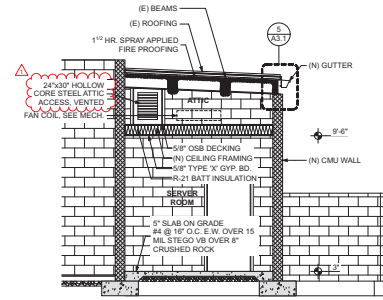




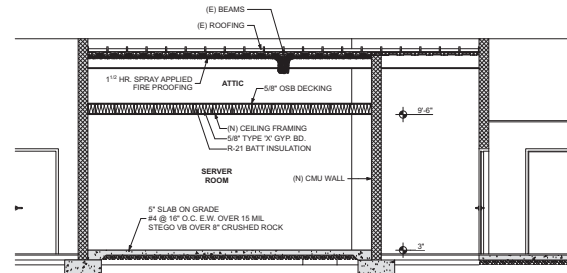
5 (N) CMU WALL FLASHING  
SCALE: 1" = 1'-0"



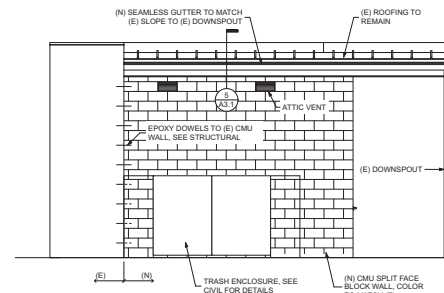
4 CMU TO ROOF  
SCALE: 3/4" = 1'-0"



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



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



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

NOTES

1. THROUGH PENETRATIONS OF FIRE-RESISTANCE-RATED WALLS SHALL COMPLY WITH THE FOLLOWING:
  - A. PENETRATIONS SHALL BE INSTALLED AS TESTED IN AN APPROVED FIRE-RESISTANCE-RATED ASSEMBLY.
  - B. THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AND SHALL HAVE AN F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED.
- EXCEPTION: WHERE THE PENETRATING ITEMS ARE STEEL, FERROUS OR COPPER PIPES, TUBES OR CONDUITS, THE ANNULAR SPACE BETWEEN THE PENETRATING ITEM AND THE FIRE-RESISTANCE RATED WALL IS PERMITTED TO BE PROTECTED AS FOLLOWS:
  - I. IN CONCRETE OR MASONRY WALLS WHERE THE PENETRATING ITEM IS A MAXIMUM 6-INCH NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THE WALL DOES NOT EXCEED 144 SQUARE INCHES, CONCRETE GROUT OR MORTAR IS PERMITTED WHERE IT IS INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE RATING; OR
  - II. THE MATERIAL USED TO FILL THE ANNULAR SPACE SHALL PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHEN SUBJECTED TO ASTM E119 OR UL 203 TIME-TEMPERATURE FIRE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AT THE LOCATION OF THE PENETRATOR FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED.



NEVADA COUNTY YOUTH CENTER  
DISPATCH REMODEL

15434 CA-49  
NEVADA CITY, CA 95959  
APN: 005-0-90-015

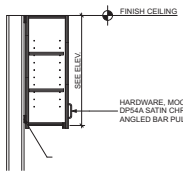
ID	NAME	DATE
1	SUBMITAL	7/31/20
	REV 1	9/29/20

SCALE	AS NOTED
DRAWN BY:	RPD
CHECKED BY:	RPD
JOB:	2019.17

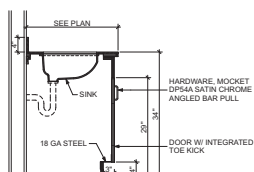
BUILDING SECTIONS, ELEVATIONS & DETAILS

A3.1

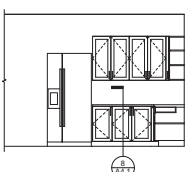
FIELD SET



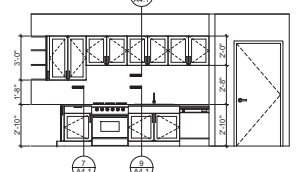
6 (TYP) UPPER CABINET  
SCALE 3/4" = 1'-0"



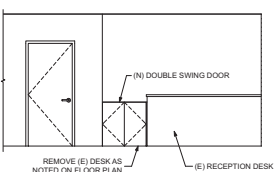
9 (TYP) SECTION @ SINK  
SCALE 3/4" = 1'-0"



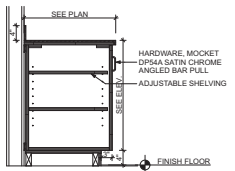
6 (N) BREAKROOM  
SCALE 1/4" = 1'-0"



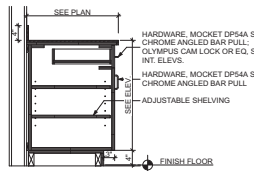
5 (N) BREAKROOM  
SCALE 1/4" = 1'-0"



4 RECEPTION DESK  
SCALE 1/4" = 1'-0"

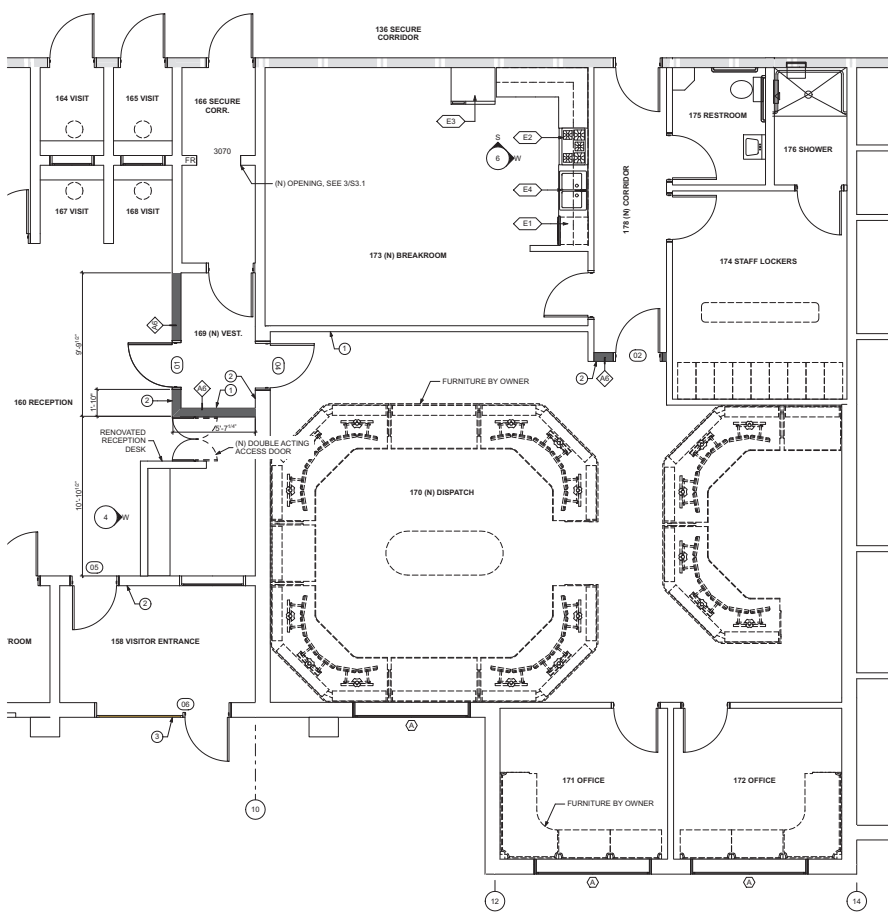


8 (TYP) CABINET  
SCALE 3/4" = 1'-0"

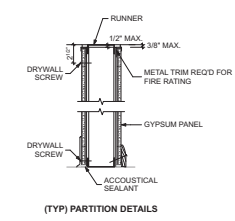


7 (TYP) CABINET W/ DRAWER  
SCALE 3/4" = 1'-0"

#	DESCRIPTION	QTY	MFG.	MODEL	NOTES
E1	DISHWASHER	1	TBD	TBD	
E2	RANGE	1	FRIGIDAIRE	FFEF3077GF	30" ELECTRIC RANGE
E3	REFRIGERATOR	1	TBD	TBD	
E4	SINK	1	ELKAY	D23221	LK1000CR FAUCET

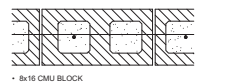


1 ENLARGED NEW FLOOR PLAN  
SCALE 1/4" = 1'-0"



TYPE	STUD WIDTH	ASSEMBLY WIDTH
A4	3 5/8"	4 1/2"
A6	5 1/2"	6 1/2"

1 LAYER GB EACH SIDE



TYPE	BLOCK WIDTH	ASSEMBLY WIDTH
A8	7 1/4"	7 1/2"

2 CMU BLOCK WALL

3 PATITION SCHEDULE  
SCALE 1 1/2" = 1'-0"

2 ENLARGED NEW FLOOR PLAN  
SCALE 1/4" = 1'-0"

NOTES

- SEE (TYP) ACCESSIBILITY DETAILS FOR DOOR CLEARANCES
- THROUGH PENETRATIONS OF FIRE-RESISTANCE RATED WALLS SHALL COMPLY WITH THE FOLLOWING:
  - PENETRATIONS SHALL BE INSTALLED AS TESTED BY AN APPROVED FIRE-RESISTANCE RATED ASSEMBLY
  - THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATING FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 813 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AND SHALL HAVE AN F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED.
- EXCEPTION: WHERE THE PENETRATING ITEMS ARE STEEL, FERROUS OR COPPER PIPES, TUBES OR CONDUITS, THE ANNULAR SPACE BETWEEN THE PENETRATING ITEM AND THE FIRE-RESISTANCE RATED WALL IS PERMITTED TO BE PROTECTED AS FOLLOWS:
  - IN CONCRETE OR MASONRY WALLS WHERE THE PENETRATING ITEM IS A MAXIMUM 6 INCH NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THE WALL DOES NOT EXCEED 144 SQUARE INCHES, CONCRETE, GROUT OR MORTAR IS PERMITTED WHERE IT IS INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE RATINGS; OR
  - THE MATERIAL USED TO FILL THE ANNULAR SPACE SHALL PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHEN SUBJECTED TO ASTM E119 OR UL 203 TIME TEMPERATURE FIRE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AT THE LOCATION OF THE PENETRATOR FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED.

PLAN KEYNOTES

- POWER DOOR OPENER FOR ADA ACCESS. TIED TO CARD ACCESS KEYPAD. WALK INGRESSOR S-124-4.
- CARD READER WITH KEYPAD, HID MULTICLASS SE RPK40. CONNECT TO (N) AVIGILON CONTROLLER IN (N) SERVER ROOM AND TIE IN COMMUNIONING TO (E) COUNTY ANGLON ACCESS CONTROL SYSTEM.
- CARD READER WITH KEYPAD, HID MULTICLASS SE RPK40. CONNECT TO (N) AVIGILON CONTROLLER IN (N) SERVER ROOM AND TIE IN COMMUNIONING TO (E) COUNTY ANGLON ACCESS CONTROL SYSTEM.
- ANSUL FIRE SUPPRESSION SYSTEM  
INERGEN CLEAN AGENT FIRE SUPPRESSION AGENT FOR COMPUTER ROOMS. INCLUDE A COMPLETE FIRE SUPPRESSION SYSTEM TO COVER NEW SERVER ROOM. INSTALLED AND TESTED TO MANUFACTURERS SPECIFICATIONS. CONTRACTOR SHALL SUBMIT THE NECESSARY DOCUMENTS FOR PERMITTING AND TIE THE NEW SYSTEM TO THE EXISTING FIRE ALARM SYSTEM AND PROVIDE ANY TRAINING REQUIRED BY MANUFACTURER FOR MAINTENANCE AND USER PERSONNEL.

WALL LEGEND



NEVADA COUNTY YOUTH CENTER  
DISPATCH REMODEL

15434 CA-49  
NEVADA CITY, CA 95959  
APN: 005-0-090-015

ID	NAME	DATE
	SUBMITAL	7/31/20

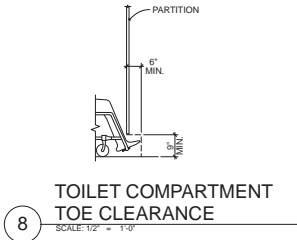
SCALE: AS NOTED  
DRAWN BY: RPD  
CHECKED BY: RPD  
JOB: 2019-17

ENLARGED NEW FLOOR PLAN, INTERIOR ELEVATIONS

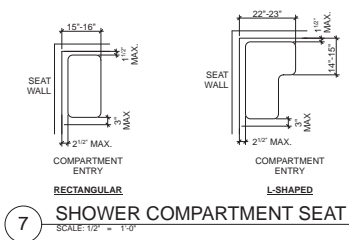
A4.1

FIELD SET

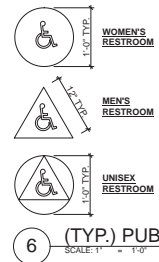




**8 TOILET COMPARTMENT TOE CLEARANCE**  
SCALE: 1/2" = 1'-0"



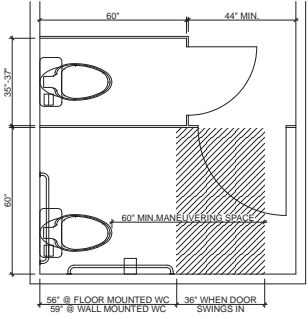
**7 SHOWER COMPARTMENT SEAT**  
SCALE: 1/2" = 1'-0"



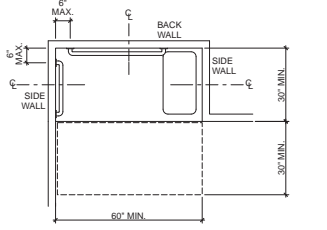
**6 (TYP.) PUBLIC RESTROOM SIGNAGE**  
SCALE: 1" = 1'-0"

**ACCESSIBILITY NOTES:**

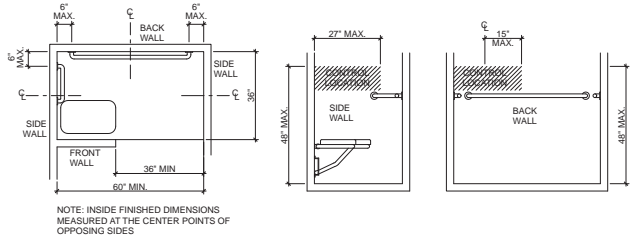
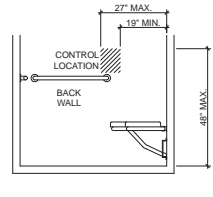
- ALL DRINKING FOUNTAINS SHALL EITHER BE LOCATED COMPLETELY WITHIN ALCOVES, POSITIONED COMPLETELY BETWEEN WING WALLS, OR OTHERWISE POSITIONED SO AS NOT TO ENROACH INTO PEDESTRIAN WAYS. THE PROTECTED AREA WITHIN WHICH A DRINKING FOUNTAIN IS LOCATED SHALL BE 32 INCHES WIDE MINIMUM AND 18 INCHES DEEP MINIMUM, AND SHALL COMPLY WITH SECTION 11B-305.7. WHEN USED, WING WALLS OR BARRIERS SHALL PROJECT HORIZONTALLY AT LEAST AS FAR AS THE DRINKING FOUNTAIN AND TO WITHIN 6 INCHES VERTICALLY FROM THE FLOOR OR GROUND SURFACE. (11B-602.9)
- THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AND CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE. (11B-604.3.2)
- FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL BE LOCATED 44 INCHES MAXIMUM ABOVE THE FLOOR. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH SECTION 11B-604.8.2 (11B-604.6)
- TOILET PAPER DISPENSERS SHALL COMPLY WITH SECTION 11B-309.4 AND SHALL BE 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE BELOW THE GRAB BAR. 10 INCHES MINIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW. (11B-604.7)
- TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH SECTION 11B-404 LOCATED IN THE FRONT PARTITION OR IN THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET, WHERE LOCATED IN THE FRONT PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE SIDE WALL OR PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE FRONT PARTITION. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH SECTION 11B-404.2.7 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS MAY SWING INTO THAT PORTION OF MANEUVERING SPACE WHICH DOES NOT OVERLAP THE CLEARANCE REQUIRED AT A WATER CLOSET. (11B-604.8.1.2)
- A SHOWER SPRAY UNIT WITH A HOSE 59 INCHES LONG MINIMUM THAT CAN BE USED BOTH AS A FIXED POSITION SHOWER HEAD AND AS A HANDHELD SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY UNIT SHALL HAVE AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF. IF AN ADJUSTABLE-HEIGHT SHOWER HEAD ON A VERTICAL BAR IS USED, THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF GRAB BARS. SHOWER SPRAY UNITS SHALL DELIVER WATER THAT IS 120 F (49°C) MAXIMUM. (11B-605.6)
- THRESHOLDS IN ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 1/2 INCH HIGH MAXIMUM IN ACCORDANCE WITH SECTION 11B-303. (11B-605.7)
- SHOWER FLOOR OR GROUND SURFACE, FLOOR OR GROUND SURFACES OF SHOWERS SHALL COMPLY WITH SECTION 11B-302.1 AND SHALL BE SLOPED 1:48 MAXIMUM IN ANY DIRECTION. WHERE DRAINS ARE PROVIDED, GREAT OPENINGS SHALL BE 14 INCH MAXIMUM AND FLUSH WITH THE FLOOR SURFACE. (11B-605.9)
- A SEAT IN A STANDARD ROLL-IN SHOWER COMPARTMENT SHALL BE A FOLDING TYPE, SHALL BE INSTALLED ON THE SIDE WALL ADJACENT TO THE CONTROLS, AND SHALL EXTEND FROM THE BACK WALL TO A POINT WITHIN 3 INCHES OF THE COMPARTMENT ENTRY. A SEAT IN AN ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT SHALL BE A FOLDING TYPE, SHALL BE INSTALLED ON THE FRONT WALL OPPOSITE THE BACK WALL, AND SHALL EXTEND FROM THE ADJACENT SIDE WALL TO A POINT WITHIN 3 INCHES OF THE COMPARTMENT ENTRY. THE TOP OF THE SEAT SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE BATHROOM FINISH FLOOR, WHEN FOLDED. THE SEAT SHALL EXTEND 6 INCHES MAXIMUM FROM THE MOUNTING WALL. SEATS SHALL COMPLY WITH SECTION 11B-610.3.1 OR 11B-610.3.2. (11B-610.3)



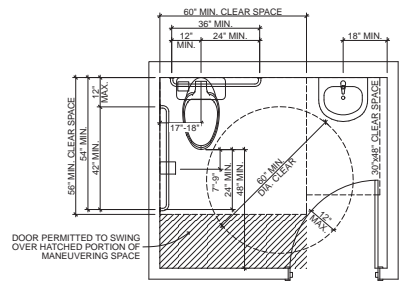
**5 (TYP) MULTI-OCCUPANCY RESTROOM**  
SCALE: 1/2" = 1'-0"



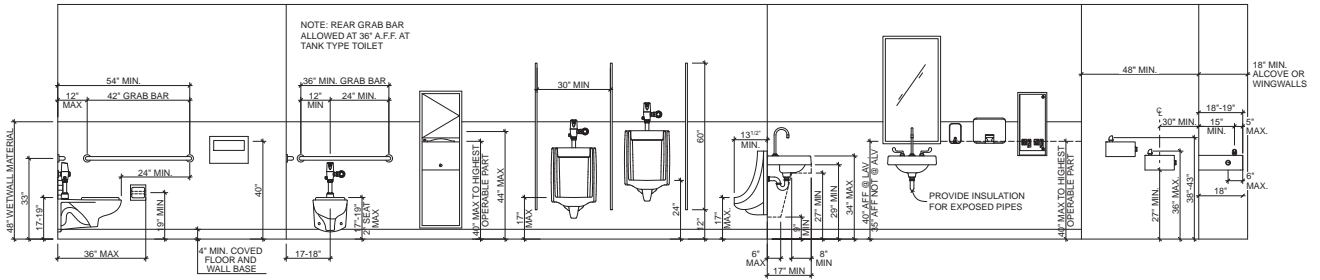
**4 ROLL-IN TYPE SHOWER COMPARTMENT**  
SCALE: 1/2" = 1'-0"



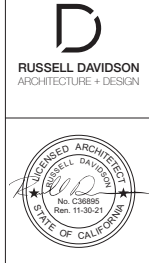
**3 ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT**  
SCALE: 1/2" = 1'-0"



**2 (TYP) ACCESSIBLE RESTROOM**  
SCALE: 1/2" = 1'-0"



**1 FIXTURE MOUNTING HEIGHTS**  
SCALE: 1/2" = 1'-0"



**NEVADA COUNTY YOUTH CENTER  
DISPATCH REMODEL**  
15434 CA-49  
NEVADA CITY, CA 95959  
APN: 005-0-90-015

ID	NAME	DATE
	SUBMITAL	7/31/20

SCALE: AS NOTED  
DRAWN BY: RPD  
CHECKED BY: RPD  
JOB: 2019.17

**TYPICAL ACCESSIBILITY DETAILS**

**A5.2**

**FIELD SET**



ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL
PART 2 PRODUCTS - NOT USED
PART 3 EXECUTION

SUBMITTALS FOR REVIEW

When the following are specified in individual sections, submit them for review:
Product data
Shop drawings
Samples for selection
Samples for verification
Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concepts expressed in Contract Documents.

SUBMITTALS FOR PROJECT CLOSEOUT

Submit Correction Punch List for Substantial Completion.
Submit Final Correction Punch List for Substantial Completion.
When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 017000 - Closeout Submittals:
Project record documents.
Operation and maintenance data.
Warranties.
Bonds.
Other types as indicated.

SUBMITTAL PROCEDURES

General Requirements:
Use a single transmittal for related items.
Shop Drawing Procedures:
Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting Contract Documents and coordinating related work.

SUBMITTAL REVIEW

Submittals for Review: Architect will review each submittal, and approve, or take other appropriate action.
Submittals for Information: Architect will acknowledge receipt and review. See below for actions to be taken.
Architect's actions will be reflected by marking each returned submittal using virtual stamp on electronic submittals.
Architect and consultants' actions on items submitted for review:
Authorizing purchasing, fabrication, delivery, and installation:
Approved, or language with same legal meaning.
Approved as Noted, Resubmission not required, or language with same legal meaning.

END OF SECTION
SECURITY PROCEDURES

PART 1 GENERAL

SECURITY PROGRAM
Protect Work, - existing premises and Owner's operations from theft, vandalism, and unauthorized entry.
Initiate program in coordination with Owner's existing security system at project mobilization.
Maintain program throughout construction period until Owner occupancy.

PART 2 PRODUCTS - NOT USED
PART 3 EXECUTION - NOT USED

END OF SECTION
DEMOLITION

PART 1 GENERAL

GENERAL PROCEDURES AND PROJECT CONDITIONS
Comply with applicable codes and regulations for demolition operators and safety of adjacent structures and the public.
Obtain required permits.
Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed, do not allow worker or public access within range of potential collapse of unstable structures.
Provide, erect, and maintain temporary barriers and security devices.

SELECTIVE DEMOLITION FOR ALTERATIONS

Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
Remove existing work as indicated and as required to accomplish new work.
Services (including but not limited to HVAC, Plumbing, Fire Protection, Electrical, Telecommunications, and [ ]): Remove existing systems and equipment as indicated.
Protect existing work to remain.

DEBRIS AND WASTE REMOVAL

Remove debris, junk, and trash from site.

END OF SECTION
UNIT MASONRY

PART 1 GENERAL

SUBMITTALS
Product Data: Provide data for masonry units, fabricated wire reinforcement, mortar, and masonry accessories.
Manufacturer's Certificate: Certify that masonry units meet or exceed specified requirements.
Manufacturer's Certificate: Certify that water repellent admixture manufacturer has certified masonry unit manufacturer as an approved user of water repellent admixture in the manufacture of concrete block.

PART 2 PRODUCTS

CONCRETE MASONRY UNITS
Concrete Block: Comply with referenced standards and as follows:
Standard units with nominal face dimensions of 16 8/16 inches ( 400 by 200 mm ) and nominal depth of 8 inches ( 200 mm ).
Special Shapes: Provide non-standard blocks configured for corners.
Load-Bearing Units: ASTM C90, normal weight.
Hollow block, as indicated.
Exposed Faces: Manufacturer's standard color and texture.
Non-Loadbearing Units: ASTM C129.
Hollow block, as indicated.
Units with Integral Water Repellent: Concrete block units as specified in this section with polymeric liquid admixture added to concrete masonry units at the time of manufacture.

MORTAR AND GROUT MATERIALS

Mortar and Grout: As specified in Section 040511.
Masonry Cement: ASTM C91/C91M, Type N.

Water: Clean and potable.
Moisture-Resistant Admixture: Water repellent compound designed to reduce capillary.
Integral Water Repellent Admixture for Mortar: Polymeric liquid admixture added to mortar at the time of manufacture.
Packaged Dry Material for Mortar for Unit Masonry: Premixed Portland cement, hydrated lime, and sand, complying with ASTM C714/C714M and capable of producing mortar of the specified strength in accordance with ASTM C270 with the addition of water only.
Type: Type N.
Color: Match existing.
Water-repellent mortar for use with water-repellent masonry units.

Packaged Dry Material for Mortar for Unit Masonry: Premixed masonry cement and mason's sand, complying with ASTM C714/C714M and capable of producing mortar of the specified strength in accordance with ASTM C270 with the addition of water only.
Type: Type N.
Color: Match existing.
Water-repellent mortar for use with water-repellent masonry units.
Packaged Dry Material for Mortar for Repointing: Premixed Portland cement, hydrated lime, and graded sand, capable of producing Type O mortar in accordance with ASTM C270 with the addition of water only.
Color: Match existing.

REINFORCEMENT AND ANCHORAGE

FLASHINGS
Metal Flashing Materials: Stainless Steel, as specified in Section 076200.
Metal Flashing Materials:
Stainless Steel Flashing: ASTM A666, Type 304, soft temper; 26 gage, 0.0187 inch ( 0.48 mm ) thick; finish 2B to 2D.
Prefabricated Metal Flashing: Smooth fabricated 12 oz/sq ft ( 3.66 kg/sq m ) copper flashing for surface mounted conditions.
Factory-Fabricated Flashing Corners and End Caps: Stainless steel.
Flashing Sealants/Adhesives: Silicone, polyurethane, or silyl-terminated polyether/polyurethane or other type required or recommended by flashing manufacturer; type capable of adhering to type of flashing used.
Termination Bars: Stainless steel; compatible with membrane and adhesives.
Drip Edge: Stainless steel; angled drip with hemmed edge; compatible with membrane and adhesives.
Lap Sealants and Tapes: As recommended by flashing manufacturer; compatible with membrane and adhesives.

MORTAR AND GROUT MIXING

Mortar for Unit Masonry: ASTM C270, using the Proportion Specification.
Exterior, load-bearing masonry: Type N.
Exterior, non-load-bearing masonry: Type N.
Interior, load-bearing masonry: Type N.
Interior, non-load-bearing masonry: Type O.
Mixing: Use mechanical batch mixer and comply with referenced standards.

PART 3 EXECUTION

COLD AND HOT WEATHER REQUIREMENTS
Comply with requirements of ACI 308.3G3.1/ERT4 or applicable building code, whichever is more stringent.

COURSING

Establish lines, levels, and coursing indicated. Protect from displacement.
Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
Concrete Masonry Units:
Bond: Running.
Coursing: One unit and one mortar joint to equal 8 inches ( 200 mm ).
Mortar Joints: Concave.
PLACING AND BONDING
Lay hollow masonry units with face shell bedding on head and bed joints.
Perform job site cutting of masonry units with proper tools to provide straight, clean, chipped edges. Prevent broken masonry unit corners or edges.

CAVITY MORTAR CONTROL

Do not permit mortar to drop or accumulate into cavity space or to plug weep/cavity vents.
REINFORCEMENT AND ANCHORAGE - GENERAL, SINGLE WYTHE MASONRY, AND CAVITY WALL MASONRY
Unless otherwise indicated on drawings or specified under specific wall type, install horizontal joint reinforcement 16 inches ( 400 mm ) on center:
Place masonry joint reinforcement in first and second horizontal joints above and below openings.
Extend minimum 16 inches ( 400 mm ) each side of opening.
Place continuous joint reinforcement in first and second joint below top of walls.
Embed longitudinal wires of joint reinforcements in mortar joint with at least 5/8 inch ( 16 mm ) mortar cover on each side.
Lap joint reinforcement ends minimum 6 inches ( 150 mm ).

MASONRY FLASHINGS

Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.
Install flashing in accordance with manufacturer's instructions and BIA Technical Notes No. 7.
Extend metal flashings through exterior face of masonry and terminate in an angled drip with hemmed edge. Install joint sealer below drip edge to prevent moisture migration under flashing.
Extend metal flashings to within 1/2 inch ( 12 mm ) of exterior face of masonry and adhere to top of stainless steel angled drip with hemmed edge.

END OF SECTION
ARCHITECTURAL WOOD CASEWORK

PART 1 GENERAL

PART 2 PRODUCTS
CABINETS
Quality Standard: Custom Grade, in accordance with AIA/AIA/MACWI (AWS) or AIA/MACWI (NAAWS), unless noted otherwise.
Plastic Laminate Faced Cabinets: Custom grade.
Cabinets:
Finish - Exposed Exterior Surfaces: Pearl Soapstone #4886-38.
Casework Construction Type: Type A - Frameless.
WOOD-BASED COMPONENTS
Wood fabricated from old growth timber is not permitted.
LAMINATE MATERIALS
Thermally Fused Laminate (TFL): Melamine resin, NEMA LD 3, Type VGL laminate panels.
COUNTERTOPS
Countertops are specified in Section 12600.
Plastic Laminate Countertops: Medium density fiberboard substrate covered with HDPL, conventionally fabricated and self-edge banded.
ACCESSORIES
Adhesive: Type recommended by fabricator to suit application.
HARDWARE
Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.
Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports and coordinated self rests, polished chrome finish, for nominal 1 inch ( 25 mm ) spacing adjustments.
Drawer and Door Pulls: 1/2" shaped wire pull, steel with chrome finish, 4 inch centers ( "U" shaped wire pull, steel with chrome finish, 100 mm centers ).
Cabinet Locks: Keyed cylinder, two keys per lock, master keyed, steel with chrome finish.
Drawer Slides:
Type: Full extension.
Static Load Capacity: Commercial grade.
Mounting: Side-mounted.
Hinges: European style concealed self-closing type, steel with polished finish.
Soft Close Actuator: Concealed, frame-mounted, screw-adjustable damper; steel with polished finish.

FABRICATION

Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single edge.
Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints halving; secure with concealed fasteners. Slightly bevel edges. Locate counter butt joints minimum 2 feet from sink cut-outs. ( Locate counter butt joints minimum 600 mm from sink cut-outs. )
Cap exposed cabinet laminate finish edges with material of same finish and pattern.
Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.
SHOP FINISHING
Sand wood smooth and set exposed nails and screws.
For opaque finishes, apply wood filler in exposed nail and screw indentations and sand smooth.
On items to receive transparent finishes, use wood filler matching or blending with surrounding surfaces and of types recommended for applied finishes.
Finish work in accordance with AIA/AIA/MACWI (AWS) or AIA/MACWI (NAAWS), Section 5 - Finishing for grade specified and as follows:

PART 3 EXECUTION

INSTALLATION
Install work in accordance with AIA/AIA/MACWI (AWS) or AIA/MACWI (NAAWS) requirements for grade indicated.
Set and secure cabinet panels in place, assuring that they are rigid, plumb, and level.
END OF SECTION
COMMON WORK RESULTS FOR FLOORING PREPARATION
PART 1 GENERAL
SUBMITTALS
Floor Covering and Adhesive Manufacturers' Product Literature: For each specific combination of substrate, floor covering, and adhesive to be used; showing:
Adhesive Bond and Compatibility Test Report.
QUALITY ASSURANCE
Contractor may perform adhesive and bond test with Contractor's own personnel or hire a testing agency.
PART 2 PRODUCTS
MATERIALS
Adhesive Flooring Adhesive: Floor covering manufacturer's recommended product, suitable for the moisture and pH conditions present; low-VOC. In the absence of any recommendation from flooring manufacturer, provide a product recommended by adhesive manufacturer as suitable for substrate and floor covering and for conditions present.
PART 3 EXECUTION
CONCRETE SLAB PREPARATION
Perform following operations in the order indicated:
Existing concrete slabs (on-grade and elevated) with existing floor coverings:
Visual observation of existing floor covering, for adhesion, water damage, alkaline efflorescence, and other defects.
Removal of existing floor covering.
Preliminary cleaning.
Specified remediation, if required.
Patching, smoothing, and leveling, as required.
Other preparation specified.
Adhesive bond and compatibility test.
Protection.
ADHESIVE BOND AND COMPATIBILITY TESTING
Comply with requirements and recommendations of floor covering manufacturer.
END OF SECTION
RESILIENT FLOORING
PART 1 GENERAL
PART 2 PRODUCTS
TILE FLOORING
Vinyl Tile - VT-1: Solid vinyl color and pattern throughout thickness.
Minimum Requirements: Comply with ASTM F1700, of Class corresponding to type specified.
Plank Tile Size: 7 by 48 inch.
Vinyl Layer Thickness: .02 inch ( 0.51 mm ).
Metal Thickness: .118 inch ( 3.00 mm ).
Pattern: Transcend 5529V.
Color: Portabello 00765.
RESILIENT BASE
Resilient Base - Type RB-1: ASTM F1861, Type TS rubber, vulcanized thermostat; tap set Style B, Cove.
Height: 4 inch ( 100 mm ).
Thickness: 0.080 inch ( 2.0 mm ).
Finish: Sain.
Color: 217 Charcoal.
PART 3 EXECUTION
Installation - General
Starting installation constitutes acceptance of subfloor conditions.
Install in accordance with manufacturer's written instructions.
Installation - Tile Flooring
Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions.
Install plank tile with a random offset of at least 6 inches ( 152 mm ) from adjacent rows.
Installation - Resilient Base
Fit joints tightly and make vertical. Maintain minimum dimension of 1/8 inches ( 45 mm ) between joints.
END OF SECTION
RESILIENT TILE FLOORING
PART 1 GENERAL
SUBMITTALS
Manufacturer's documentation for flooring and accessories:
Verification Samples: Submit two samples, 4 by 4 inch ( 100 by 100 mm ) in size illustrating color and pattern for each resilient flooring product specified.
QUALITY ASSURANCE
PART 2 PRODUCTS
MANUFACTURERS
RESILIENT TILE FLOORING
Luxury Vinyl Plank Tile:
Pattern: Transcend 5529V.
Color: Portabello 00765.
PART 3 EXECUTION
EXAMINATION - SEE ALSO SECTION 01 7000.
Acceptance of Conditions: Carefully examine all installation areas with installer/applicator present, for compliance with requirements affecting work performance:
Verify that field measurements, product, adhesives, substrates, surfaces, structural support, tolerances, levelness, temperature, humidity, moisture content level, pH, cleanliness and other conditions are as required by the manufacturer, and ready to receive work.
INSTALLATION
Installation per manufacturer's written instructions, Section 01 7000, and as follows:
Layout shall be specified by Architect, Designer or End User.
Follow layout and ensure installation reference lines are square.
Field tiles shall be installed with directional arrows on back aligned in the same direction, or may be installed in quarter-turned fashion.

Check cartons for and do not mix dye lots.
Expansion Joints: Locate expansion, isolation, and other moving joints prior to installation.
Adhesives: Adhere flooring to substrate using the full spread method resulting in a completed installation without gaps, voids, raised edges, bubbles or any other surface imperfections.

END OF SECTION
TILE CARPETING

PART 1 GENERAL

SUBMITTALS
Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color selected.
PART 2 PRODUCTS
MATERIALS
Tile Carpeting, Type [ ] Tufted, manufactured in one color dye lot.
Product: First One Up tile - BT443 manufactured by Mohawk.
Tile Size: 24 by 24" inch ( [ ] by [ ] mm ), nominal.
Thickness: 1.088" inch ( [ ] mm ).
Pattern: Impartance.
PART 3 EXECUTION
INSTALLATION
Blend carpet from different cartons to ensure minimal variation in color match.
Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.
Lay carpet tile in square pattern, with pile direction parallel to next unit, set parallel to building lines.
END OF SECTION
INTERIOR PAINTING
PART 1 GENERAL
SECTION INCLUDES
Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.
Do Not Paint or Finish the Following Items:
Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
Items indicated to receive other finishes.
Items indicated to remain unfinished.
Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.
Stainless steel, anodized aluminum, bronze, tene coated stainless steel, and lead items.
Marble, granite, slate, and other natural stones.
Floors, unless specifically indicated.
Glass.
Concealed pipes, ducts, and conduits.
SUBMITTALS
Samples: Submit three paper "draw down" samples, 8-1/2 by 11 inches ( 216 by 279 mm ) in size, illustrating range of colors available for each finishing product specified.
Where shades is specified, submit samples in only that shade.
PART 2 PRODUCTS
MANUFACTURERS
Provide paints and finishes from the same manufacturer to the greatest extent possible.
PAINTS AND FINISHES - GENERAL
Paints and Finishes: Ready mixed, unless intended to be a field-catalyzed paint.
Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
Supply each paint material in quantity required to complete entire project's work from a single production run.
Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
Colors: As indicated on drawings.
Selection to be made by Owner after award of contract.
In finished areas, finish pipes, ducts, conduit, and equipment the same color as the wall, unless they are mounted on ceiling.
PAINT SYSTEMS - INTERIOR
P1-1 Interior Surfaces to be Painted: Unless Otherwise Indicated: Including gypsum board, concrete, concrete masonry units, brick, wood, plaster, uncoated steel, shop primed steel, galvanized steel, and aluminum.
Two top coats and one coat primer.
Top Coat Sheen:
Eggshell: MPI gloss level 3; use this sheen at all locations.
Satin: MPI gloss level 4; use this sheen for areas subject to frequent touching by occupants, including door frames and railings.
Primer: As recommended by top coat manufacturer for specific substrate.
PART 3 EXECUTION
PREPARATION
Clean surfaces thoroughly and correct defects prior to application.
Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
APPLICATION
Apply products in accordance with manufacturer's written instructions and recommendations in MPI Architectural Painting Specification Manual.
Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
END OF SECTION



NEVADA COUNTY YOUTH CENTER
DISPATCH REMODEL
15434 CA-49
NEVADA CITY, CA 95959
APN: 005-090-015

Table with columns: ID, NAME, DATE. Row 1: SUBMITTAL, 7/31/20. Row 2: SCALE, AS NOTED. Row 3: DRAWN BY: RPD. Row 4: CHECKED BY: RPD. Row 5: JOB: 2019-17.

SPECIFICATIONS

FIELD SET

A7.1

**VERTICAL LOUVER BLINDS**

**PART 1 GENERAL**

**PART 2 PRODUCTS**

**BLINDS AND BLIND COMPONENTS**

Vertical Louver Blinds: Horizontal travel, vertical vane lower units complete with tracks, pivot and traversing mechanisms, and accessories, as follows:

Vaness: PVC vanes of the size indicated.

Operation: Manual.

Direction of Travel: As indicated on the drawings.

Mounting: Inside (between jambs).

Cord and Chain Operation: Comply with WCMA A100.1.

Tracks: Channel tracks as required for type of operation, extruded aluminum with clear anodized finish, with end caps.

Dimensions: Manufacturer's standard, selected for suitability for installation conditions, span, and weight of vanes.

Vane Rotation: Chain driven direct rotation by activating tilt gear within end cap assembly in turn actuating tilt rod and worm-and-spur gears in carrier trucks.

Operating Components: Internally mounted heavy-duty extruded aluminum tilt rod, vane carriers, and other components required for proper performance and designed for smooth, quiet, trouble free operation.

Pivot Mechanism: Geared for synchronous 180 degrees rotation of vanes and type of operation indicated.

Vane Carriers: Metal carriers with ball-bearing wheels or thermoplastic trucks, equipped with linkages or other devices to ensure positive spacing of vanes.

Tilt Chain: Nickel plated brass beaded ball chain, minimum 1/8 inch (3 mm) diameter; locate at drawback side of units as indicated.

PVC Vanes: Integrally colored, extruded PVC; flat, 2 inches (50mm) wide.

Flammability: Comply with NFPA 701.

Color: As selected by Owner from manufacturer's full range of colors.

Texture: Smooth.

Brackets and Mounting Hardware: As recommended by manufacturer for the mounting configuration and span indicated; provide manufacturer's standard L-brackets with clip for outside mounting and clip only for inside mounting.

**FABRICATION**

Field measure finished openings prior to ordering or fabrication.

**PART 3 EXECUTION**

**INSTALLATION**

Install in accordance with manufacturer's instructions using mounting style as indicated.

Adjust blinds for smooth operation.

**END OF SECTION**

**COUNTERTOPS**

**PART 1 GENERAL**

**SUBMITTALS**

**PART 2 PRODUCTS**

**COUNTERTOPS**

Plastic Laminate Countertops: High-pressure decorative laminate (HPDL) sheet bonded to substrate.

Laminate Sheet, Type [ ]: NEMA LD 3, Grade HGS, 0.048 inch (1.2 mm) nominal thickness.

Finish: 60 Matte.

Surface Color and Pattern: Wilsonart Black Alcantara 4926.

Exposed Edge Treatment: Square, substrate built up to minimum 1-1/4 inch (32 mm) thick; covered with matching laminate.

Back and End Splashes: Same material, same construction.

Fabricate in accordance with manufacturer's standard requirements.

**MATERIALS**

Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.

**FABRICATION**

Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.

Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.

**PART 3 EXECUTION**

**INSTALLATION**

Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required.

Attach plastic laminate countertops using screws with minimum penetration into substrate board of 5/8 inch (16 mm).

Seal joint between back/end splashes and vertical surfaces.

**END OF SECTION**

**ACCESS CONTROL**

**PART 1 GENERAL**

**SUBMITTALS**

Shop Drawings: Include plan views indicating locations of system components and proposed size, type, and routing of conduits and/or cables. Include elevations and details of proposed equipment arrangements. Include system interconnection schematic diagrams. Include requirements for interface with other systems.

Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.

Evidence of qualifications for installer.

Evidence of qualifications for maintenance contractor (if different from installer).

**QUALITY ASSURANCE**

Comply with the following:

NFPA 70.

NFPA 101 (Life Safety Code).

The requirements of the local authorities having jurisdiction.

Applicable TIA/EIA standards.

Installer Qualifications: Company specializing in performing the work of this section with minimum three years documented experience with access control systems of similar size, type, and complexity and providing contract maintenance service as a regular part of their business; authorized manufacturer's representative.

**WARRANTY**

Provide minimum one year manufacturer warranty covering repair or replacement due to defective materials or workmanship.

**PART 2 PRODUCTS**

**ACCESS CONTROL SYSTEM REQUIREMENTS**

Provide new access control system consisting of required equipment, conduit, boxes, wiring, connectors, hardware, supports, accessories, software, system programming, etc. as necessary for a complete operating system that provides the functional intent indicated.

Surge Protection: Provide surge protection for readers and door strikes/locks.

Interface with Other Systems:

Provide products compatible with other systems requiring interface with access control system.

Provide products listed, classified, and labeled as suitable for the purpose intended.

Access Control Units and Readers: Listed and labeled as complying with UL 294.

**ACCESS CONTROL UNITS AND SOFTWARE**

Provide access control units and software compatible with readers to be connected.

Unless otherwise indicated, provide software and licenses required for fully operational system.

Access Control Unit:

Basis of Design: Avigilon Access Control.

**ACCESS CONTROL POINT PERIPHERALS**

Provide devices compatible with control units and software.

Provide devices suitable for operation under the service conditions at the installed location.

Readers and Keypads:

General Requirements:

Provide readers compatible with credentials to be used.

Color: To be selected by Architect from manufacturer's available standard colors.

Door Locking Devices (Electric Strikes and Magnetic Locks): Comply with Section 087100.

**PART 3 EXECUTION**

**INSTALLATION**

Install access control system in accordance with NECA 1 (general workmanship).

Install products in accordance with manufacturer's instructions.

Identify system wiring and components in accordance with Section 260553.

**FIELD QUALITY CONTROL**

Prepare and start system in accordance with manufacturer's instructions.

Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.

**CLOSEOUT ACTIVITIES**

Training: Train Owner's personnel on operation, adjustment, and maintenance of system.

**END OF SECTION**



RUSSELL DAVIDSON  
ARCHITECTURE + DESIGN



NEVADA COUNTY YOUTH CENTER  
DISPATCH REMODEL

15434 CA-49  
NEVADA CITY, CA 95959  
APN: 005-090-015

ID	NAME	DATE
	SUBMITTAL	7/31/20

SCALE	AS NOTED
DRAWN BY:	RPD
CHECKED BY:	RPD
JOB:	2019-17

SPECIFICATIONS

A7.2

FIELD SET

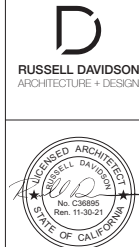








# 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)



1	NO	RESPONSE PART 1
2	NO	RESPONSE PART 2

### 5.504.4.1 FINISH MATERIAL POLLUTANT CONTROL

Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

**5.504.4.1 Adhesives, sealants and caulks.** Adhesives, sealants, and caulks used on the project shall meet the requirements of the following:

- Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with final or original air pollution control or air quality management district rules applicable to SCAQMD Rule 116B VOC limits, as shown in Table 5.504.4.1 and 5.504.4.2. Such products shall comply with the Rule 116B prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and 1,1,1-trichloroethane), except for aerosol products as specified in subsection 2, below.
- Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 10 fluid ounces shall comply with solvent VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	100
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COLE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLEPLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
<b>SPECIALTY APPLICATIONS</b>	
PVC WELDERS	510
CPVC WELDING	495
ABS WELDING	260
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	500
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
<b>SUBSTRATE SPECIFIC APPLICATIONS</b>	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	50

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 116B, [www.scaqm.org/ORDS/ORDS/Rule116B.PDF](http://www.scaqm.org/ORDS/ORDS/Rule116B.PDF)

TABLE 5.504.4.2 - SEALANT VOC LIMIT

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	750
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLEPLY ROOF MEMBRANE	450
OTHER	420
<b>SEALANT PRIMERS</b>	
ARCHITECTURAL	
MEMBRANES	250
POROLDS	775
MODIFIED BITUMINOUS	500
MARINE DECK	750
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 116B.

**5.504.4.2 Paints and coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent requirements are specified in subsections in Sections 5.504.4.2.1 through 5.504.4.2.4 of California Code of Regulations, Title 17, commencing with Section 94502, and in areas under the jurisdiction of the South Coast Air Resources Board Suggested Control Measure, and the corresponding Title 17 North of Northridge High Speed Rail in Table 5.504.4.3, shall apply.

**5.504.4.3 Aerosol Paints and coatings.** Aerosol paints and coatings shall comply with the PM10 Limits for ROC in Section 94523(a)(3) and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94502, and in areas under the jurisdiction of the South Coast Air Resources Board Suggested Control Measure, and the corresponding Title 17 North of Northridge High Speed Rail in Table 5.504.4.3, shall apply.

### TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

GRAINS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS	CURRENT VOC LIMIT
<b>FLAT COATINGS</b>	50
<b>NONFLAT COATINGS</b>	100
<b>NONFLAT HIGH GLOSS COATINGS</b>	150
<b>SPECIALTY COATINGS</b>	
ALUMINUM ROOF COATINGS	50
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/STAINING SEALERS	100
DRYWALL SEALERS	50
DRY COAT COATINGS	100
PAINT FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
GRAPHIC COATINGS	100
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOOL COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	260
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLAC:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	340
ZINC-RICH PRIMERS	340

**5.504.4.3.2 Verification.** Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

- Manufacturer's product specification
- Field verification of on-site product containers

### 5.504.4.4 Carpet Systems.

All carpet installed in the building interior shall meet at least one of the testing and product requirements:

- Carpet and Rug Institute's Green Label Plus Program.
- Compliance with the VOC-Content Limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V.1.1 or Specification 03200).
- ISPMARD 141 in the GRI-ES of higher.
- Scientific Certification Systems Sustainable Choice; or
- Compliance with the Collaborative for High Performance Schools California (2014 CHA-CPHS) Criteria B (except the CPHS High Performance Product Database).

### 5.504.4.4.1 Carpet cushions.

All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

### 5.504.4.4.2 Carpet adhesives.

All carpet adhesive shall meet the requirements of Table 5.504.4.1.

### 5.504.4.5 Composite wood products.

Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet requirements for formaldehyde as specified in ARB's AF Toxic Control Measure (ATCM) for Composite Wood (17 CCR 95120) and shall not exceed under the ATCM most meet the specified emission limits, as shown in Table 5.504.4.5.

### 5.504.4.5.2 Documentation.

Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

- Product certification and specifications.
- Chain of custody certification.
- Protocols used and provided as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 03200, at 600).
- Exterior goods products marked as meeting the P51 or P52 standards of the Engineering Wood Association, the Australian AS/NZS 2209 or European EUC 35 standards.
- Other methods acceptable to the enforcing agency.

### TABLE 5.504.4.5 - FORMALDEHYDE LIMITS

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION	CURRENT LIMIT
<b>PRODUCT</b>	
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED IN THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL DIVISION FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E1334. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 95120 THROUGH 95120.5.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8MM).

### 5.504.4.6 Resilient flooring systems.

For 60 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

- Certified under the Resilient Floor Covering Institute (RFCI) Flooring program.
- Compliance with the VOC-Content Limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010.
- Compliance with the High Performance Schools California (2014 CHA-CPHS) Criteria B and B (except the CPHS High Performance Product Database, or
- Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's Schools Program).

### 5.504.4.6.1 Verification of compliance.

Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

### 5.504.3.3 Filters.

In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same size shall be included in the operation and maintenance manual.

Exception: Existing mechanical equipment.

### 5.504.3.1 Labeling.

Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

### 5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL.

Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entrance, windows, air intakes and operable windows and within the building as already prohibited by other laws or regulations, or as authorized by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whenever more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibition.

### SECTION 5.505 INDOOR MOISTURE CONTROL.

Buildings shall meet or exceed the provisions of California Building Code, CCB, Title 24, Part 2, Section 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

### SECTION 5.506 INDOOR AIR QUALITY

**5.506.1 OUTSIDE AIR DELIVERY.** For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of 15C1 (Requirements for Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and IMAS 1, Chapter 4 of CCR, Title 8.

### 5.506.2 CARBON DIOXIDE (CO2) MONITORING.

For buildings or additions equipped with demand control ventilation, CO2 levels shall be specified and installed in accordance with the requirements of the California Energy Code, Section 1202(c)(4).

### SECTION 5.507 ENVIRONMENTAL FORT

Energy building envelope materials and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Out-of-Door Sound Transmission Class (OTC) determined in accordance with ASTM E 1332, using either the procedure or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: (D5A-55) For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

### 5.507.4.1 Exterior noise transmission, prescriptive method.

Wall and roof-ceiling assemblies exposed to the noise source meeting up the building's addition envelope or alternate envelope shall meet a composite STC rating of at least 50 or a composite OTC rating of at least 40, with exterior windows of a minimum STC of 40 or OTC of 30 in the following locations:

- Within the 60 CNEC or LRA noise contour of an airport.

Exceptions:

- Lin or CNEC for military airports shall be determined by the facility AF Installation Compatible Land Use Zone (IACLUZ) plan.
- Lin or CNEC for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan requirements.

### 5.507.4.2 Performance Method.

For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source meeting up the building's addition envelope or alternate envelope shall meet a composite STC rating of at least 50 or a composite OTC rating of at least 40, with exterior windows of a minimum STC of 40 or OTC of 30.

### 5.507.4.2.1 5th Features.

Exterior features such as sound walls or earth berms may be utilized as separate to the building, addition or alteration project to mitigate sound migration to the interior.

### 5.507.4.2.2 Documentation of Compliance.

An acoustical analysis documenting compliance shall be prepared by a person approved by the architect or engineer of record.

### 5.507.4.3 Exterior sound transmission.

Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found in the California Office of Code Compliance, [www.homeseg.org/CPDF/CaliforniaOfficeofCodeCompliance.pdf](http://www.homeseg.org/CPDF/CaliforniaOfficeofCodeCompliance.pdf)

### SECTION 5.508 OUTDOOR AIR QUALITY

**5.508.1 Ozone depletion and greenhouse gas reductions.** Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

### 5.508.1.1 Chlorofluorocarbons (CFCs).

Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

### 5.508.1.2 Hydrofluorocarbon (HFC) Refrigeration and fire suppression equipment.

Refrigeration and fire suppression equipment shall comply with the provisions of this section unless installed in retail stores 6,000 square feet or more conditioned area, and that utilize other refrigerant discharge cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing hydrofluorocarbon (HFC) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO2), and propane, other refrigerants.

1	NO	RESPONSE PART 1
2	NO	RESPONSE PART 2

### 5.508.2 Refrigerant piping.

Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using brazed pipe, copper tubing with an outside diameter of less than 1/4 inch, flare-tubing connections and soft joints shall also not be used in refrigeration systems except as noted below.

### 5.508.2.1 Threaded pipe.

Threaded connections are permitted at the compressor.

### 5.508.2.1.2 Copper pipe.

Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

### 5.508.2.1.3 Anchorage.

One-half-inch OD tubing shall be securely clamped to a rigid base to limit vibration levels below 8 in/s.

### 5.508.2.1.4 Flared tubing connections.

Double-flared tubing connections may be used for pressure control. Use 3/8 inch and 1/2 inch.

Exception: Single-flared tubing connections may be used with a mating seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

### 5.508.2.1.5 Elbows.

Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

### 5.508.2.2 Valves.

Valves and fittings shall comply with the California Mechanical Code and ASHRAE.

### 5.508.2.2.1 Pressure relief valves.

For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

### 5.508.2.2.1.1 Pressure detection.

A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

### 5.508.2.2.2 Access valves.

Only Schrader access valves with a brass or steel body are permitted for use.

### 5.508.2.2.2.1 Valve caps.

For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

### 5.508.2.2.2.2 Seal caps.

If designed for it, the cap shall have a neoprene O-ring in place.

### 5.508.2.2.2.3 Chain latches.

Chain latches, chain latches to the cap shall be required for valves designed to have seals.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

### 5.508.2.3 Refrigerated service cases.

Refrigerated service cases including food products containing sugar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

### 5.508.2.3.1 Coil coating.

Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

### 5.508.2.4 Refrigerant receivers.

Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a pressure indicator to indicate the receiver is empty.

### 5.508.2.5 Pressure testing.

The system shall be pressure tested under installation prior to evacuation and charging.

### 5.508.2.5.1 Minimum pressure.

The system shall be charged with regulated dry nitrogen and appropriate lower gas to bring system pressure up to 300 psig minimum.

### 5.508.2.5.2 Leaks.

Check the system for leaks, repair any leaks, and reset for pressure using the same gas, whichever is more stringent, and IMAS 1, Chapter 4 of CCR, Title 8.

### 5.508.2.5.3 Allowable pressure change.

The system shall not be allowed, for 24 hours with no more than a 4-inch column pressure change from 300 psig measured with the same gauge.

### 5.508.2.5.4 Evacuation.

The system shall be evacuated after pressure testing and prior to charging.

### 5.508.2.6.1 First vacuum.

Pull a first vacuum down to at least 1000 microns (1+50 microns), and hold for 30 minutes.

### 5.508.2.6.2 Second vacuum.

Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

### 5.508.2.6.3 Third vacuum.

Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

### CHAPTER 7

### INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

### 702 QUALIFICATIONS

### 702.1 INSTALLER TRAINING.

HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training and certification program. Unlicensed persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contract licensed HVAC technicians. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- State certified apprenticeship programs.
- Public utility training programs.
- Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
- Programs sponsored by manufacturing organizations.
- Other programs acceptable to the enforcing agency.

### 702.2 SPECIAL INSPECTION (NICD).

When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate the special inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to their certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:





**NEVADA COUNTY YOUTH CENTER  
DISPATCH REMODEL**

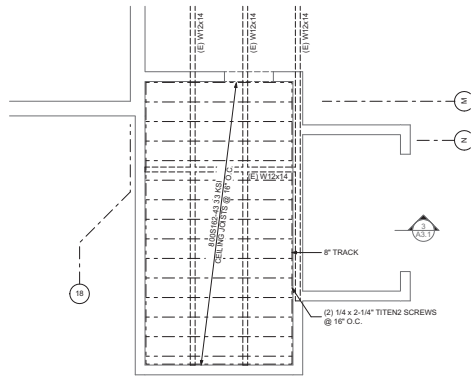
15434 CA-49  
NEVADA CITY, CA 95959  
APN: 005-090-015

ID	NAME	DATE
	SUBMITAL	7/31/20

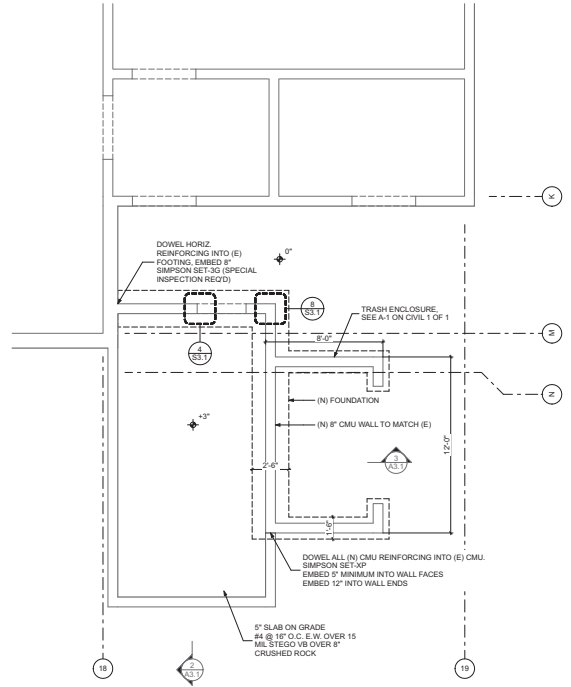
SCALE: AS NOTED  
DRAWN BY: RPD  
CHECKED BY: RPD  
JOB: 2019.17

**STRUCTURAL  
PLANS**

**S2.1**



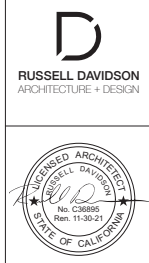
**2** CEILING FRAMING PLAN  
SCALE: 1/4" = 1'-0"



**1** SERVER ROOM FOUNDATION PLAN  
SCALE: 1/4" = 1'-0"



**FIELD SET**



NEVADA COUNTY YOUTH CENTER  
DISPATCH REMODEL  
15434 CA-49  
NEVADA CITY, CA 95959  
APN: 005-0-90-015

ID	NAME	DATE
1	SUBMITAL	7/31/20
	REV 1	9/29/20

SCALE: AS NOTED  
DRAWN BY: RPD  
CHECKED BY: RPD  
JOB: 2019-17

ENGINEERING  
DETAILS AND  
SECTIONS

S3.1

CONTINUOUS FOOTING GRADE BEAM SCHEDULE

MARK	WIDTH	DEPTH	BOTTOM REINFORCING	TOP REINFORCING	TIES
WF-1.5	1'-6"	1'-6"	2-#5	1-#5	--
WF-2	2'-0"	1'-6"	2-#5	2-#5	--
WF-2.5	2'-6"	1'-6"	3-#5	2-#5	--

REINFORCED MASONRY f'm = 1500 PSI

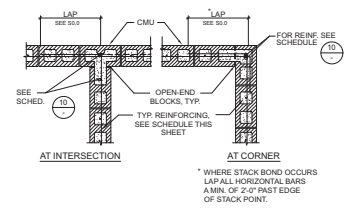
REINFORCEMENT SIZE										
#3 GR40	#4	#5	#6	#7	#8	#9	#10	#11		
19	24	31	36	43	-	-	-	-		

MINIMUM REINFORCEMENT IN CMU WALLS

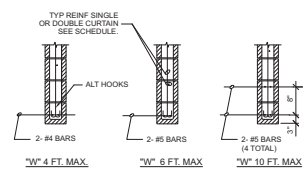
WALL SIZE	BOND BEAM HORIZ. REINF.	VERT. REINF. (SEE NOTE 12)	CHORD REINF.
6" BLOCK (F'm=1500 psi)	#4 @ 24"	#4 @ 16"	1-#5
8" BLOCK (F'm=1500 psi)	#5 @ 24"	#5 @ 16"	2-#5
12" BLOCK (F'm=1500 psi)	#5 @ 24" EA FACE	#5 @ 16" EA FACE	2-#5
12" BLOCK (F'm=1500 psi) @ SECURITY AREAS (SEE NOTE 11)	2-#5 @ 24" EA FACE	#5 @ 8" (STAGGER)	2-#5

NOTE: USE THIS SCHEDULE WHERE REINFORCING IS NOT SHOWN OTHERWISE ON SECTIONS, DETAILS OR WALL ELEVATIONS.

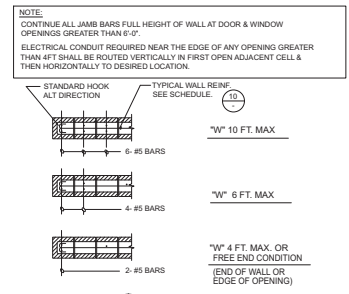
- NOTES:
- VERTICAL REINF. FOR WALLS SHALL BE CONTINUOUS FROM FOOTING TO TOP OF WALL OR FLOOR TO FLOOR WITHOUT SPLICE, EXCEPT AS NOTED IN DETAIL.
  - ALL CELLS SHALL BE SOLID GROUTED.
  - USE OPEN END BLOCK AT VERTICAL REINFORCING BARS.
  - HOLD BARS ACCURATELY IN PLACE AT THE CENTER LINE OF THE WALL UNTIL GROUT SETS.
  - USE SPECIAL BOND BEAM OR LINTEL BLOCK AT ALL HORIZONTAL BARS.
  - THE TERM "STANDARD HOOK" SHALL MEAN EITHER:  
- 180 HOOK PLUS AN EXTENSION OF 4 BAR DIAMETERS.  
- 90 HOOK PLUS AN EXTENSION OF 12 BAR DIAMETERS.
  - ALL ANGLES AND BENT STRAPS AT TOP ANCHORAGE ARE TO BE INSTALLED TIGHT AGAINST WALL.
  - LAP BARS PER SCHEDULE S0.0 U.O.N.
  - FOR WALL ANCHOR BOLTS SEE [10].
  - FOR 1 + 24" AS SHOWN ON DETAIL 61: OR AT "FREE END CONDITION" PROVIDE "STANDARD HOOK" ON ALL HORIZONTAL REINFORCEMENT.
  - COORDINATE LOCATION OF SECURITY WALLS WITH ARCH. & SHT S2.1.
  - USE 9 GA WIRE POSITIONERS FOR ALL VERTICAL WALL REINFORCING. (A WIRE PRODUCTS COMPANY # A2025 OR EQUAL)
  - FOOTING AND WALL REINFORCING F<sub>y</sub> = 60 ksi REINFORCING FOR WELDS TO BEAMS = ASTM A706, GRADE W USE SMAW PROCESS WITH E9016-X, E9018-X, E9015-X, OR E9018M ELECTRODES ALL WELDING PER AWS D1.4



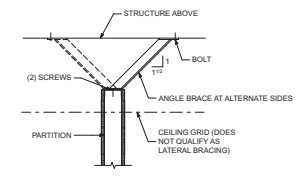
8 CMU WALL INTERSECTIONS SCALE: 1 1/2" = 1'-0"



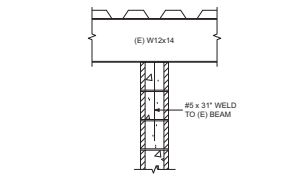
6 REINF @ OPENINGS SCALE: 1 1/2" = 1'-0"



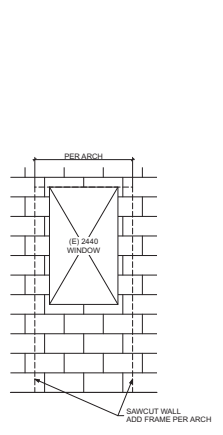
4 JAMB & FREE END OF WALLS SCALE: 1 1/2" = 1'-0"



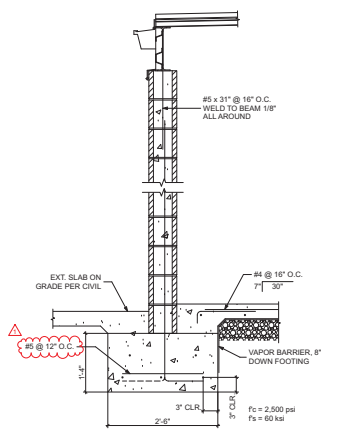
7 WALL BRACING SCALE: 3/4" = 1'-0"



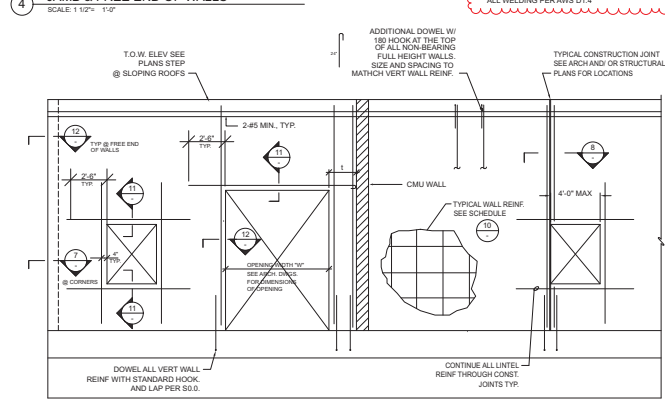
5 SERVER ROOM WALL SCALE: 3/4" = 1'-0"



3 (N) OPENING @ INT. CMU WALL SCALE: 1/2" = 1'-0"



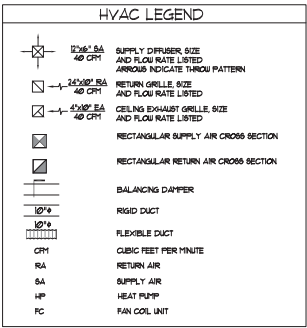
2 (N) WALL & SLAB @ SERVER ROOM SCALE: 3/4" = 1'-0"



1 ELEVATION @ 6" & 8" CMU WALLS SCALE: 1 1/2" = 1'-0"

NOTE: DO NOT PLACE ELECTRICAL CONDUIT IN THE SAME CELL AS ANY TYPICAL VERTICAL REINFORCING OR JAMB CELLS.

FIELD SET



### HVAC NOTES

**SCOPE OF WORK**

- INSTALL NEW AIR CONDITIONING SYSTEM FOR IT ROOM, AS INDICATED ON PLANS.
- FURNISH AND INSTALL ALL MATERIALS AND PERFORM ALL LABOR NECESSARY FOR A COMPLETE INSTALLATION OF HVAC WORK INDICATED ON THE DRAWINGS. ALSO, PROVIDE ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED, WHICH CAN REASONABLY BE INFERRED OR TAKEN AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE COMPLETE SYSTEM.
- IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO ASSURE ALL MECHANICAL SYSTEMS FUNCTION PROPERLY, SAFELY, AND MEET ALL LOCAL, STATE AND FEDERAL CODES.
- ALL WORK IS TO CONFORM TO THE ACCEPTED STANDARDS OF THE TRADE. THE ENGINEER IS TO BE NOTIFIED IF ANY SUBSTITUTIONS ARE NECESSARY.

**CONTROLS - GENERAL**

A. THE VENTILATION SYSTEM SHALL BE WIRED TO OPERATE CONTINUOUSLY DURING OCCUPIED HOURS. DURING UNOCCUPIED HOURS THE UNIT SHALL CYCLE ON AND OFF WITH A DEMAND FOR HEATING AND COOLING.

B. ROOM THERMOSTATS SHALL BE PROGRAMMABLE WITH 9-1-1 DAY CIRCUMPHANS AND 24-HOUR HEATING AND COOLING SETBACK CAPABILITY.

C. THERMOSTATS SHALL BE INSTALLED WHERE INDICATED ON PLANS, 48 INCHES ABOVE FINISHED FLOOR LEVEL.

E. INSTALLING SUB-CONTRACTOR SHALL PROVIDE ENGINEER WITH COMPLETE CONTROL SCHEMATIC INCLUDING SUBMITTALS FOR EACH COMPONENT.

6. AIR DIFFUSERS AND RETURN/EXHAUST GRILLES SHALL BE BUSH-DRIVEN OR EQUAL. PROPOSED MODEL NUMBERS FOR DIFFERENT APPLICATIONS ARE AS FOLLOWS:

APPLICATION	MODEL #	REMARKS
CLG GYPSUM SUPPLY 1/2" x 6"	LINEAR DIFFUSER WITH 1/8" BARS AT 1" SPACINGS AND 0° DEFLECTION	
GYPSUM CEILING FILTERED RETURN	STAFF FACED FILTER GRILLE PROVIDE 2" MERV-13 FILTER	

7. FOR EXACT LOCATION OF DIFFUSERS AND GRILLES REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.

8. SLOPE ALL CONDENSATE LINES AT 1/4" PER FOOT. CONDENSATE SHALL TERMINATE OUTSIDE A MINIMUM OF 6" ABOVE GRADE WITH A DOWNWARD ELBOW. CONDENSATE SHALL BE 3/4" SCHEDULE 40 PVC UNLESS OTHERWISE NOTED. IN LIEU OF SECONDARY DRAIN, FLOAT SWITCH FOR AIR HANDLER WILL INTERRUPT POWER TO THE FANCOIL UNIT WHEN MOISTURE IS DETECTED IN THE DRAIN PAN.

9. DUCT MATERIAL AND SEALING

A. DUCTING IN CONCEALED LOCATION SHALL BE GALVANIZED SHEET METAL. PRE-INSULATED FLEX DUCT MAY BE USED AS LEADERS (3" MAX) TO AND FROM AIR TERMINALS. PER CHC 4024.1, DUCT SHALL BE MANUFACTURED IN ACCORDANCE WITH CHAPT. 6 OF THE 2018 CMIC AND SMACNA GUIDELINES.

B. PRE-INSULATED FLEX DUCT SHALL HAVE AN R-VALUE + 8.0. CANER LINING OF FLEX DUCTING SHALL BE SECURELY FASTENED WITH A FANOUT STRAP. THE EXTERIOR LINING (INSULATION) SHALL BE SECURELY TAPED TO THE SHEET METAL FITTING.

C. FACTORY-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL181.

E. METAL TO METAL JOINTS SHALL BE SEALED WITH MASTIC SEALANT TO PROVIDE AIRTIGHT PROTECTION FROM TO INSULATION. APPLY SEALANT ACCORDING TO MANUFACTURER'S RECOMMENDATION.

F. CORRUGATED ALUMINUM FLEX DUCT SHALL NOT BE ALLOWED. GALL TAPES AND MASTIC SEALANTS SHALL COMPLY WITH UL181, UL 181A OR UL181B.

10. PROVIDE FLEXIBLE DUCT CONNECTIONS BETWEEN SUPPLY AND RETURN AIR DUCTING AND SUPPLY AND RETURN CONNECTIONS TO FANCOIL UNIT.

11. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE WHEREVER POSSIBLE. DIVERGENCE UPSTREAM OF EQUIPMENT SHALL NOT EXCEED 30 DEGREES; CONVERGENCE DOWNSSTREAM SHALL NOT EXCEED 30 DEGREES.

12. SUPPORTS AND HANGERS FOR DUCTING SHALL BE IN ACCORDANCE WITH THE 2018 UNIFORM MECHANICAL CODE AND IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. METAL AND FLEXIBLE DUCTS SHALL BE SUPPORTED AT EACH CHANGE OF DIRECTION, SUPPORTS AND 8' INTERVALS (MIN).

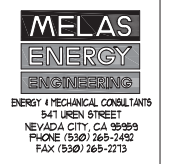
13. WRAP ALL UNLINED CONCEALED SUPPLY AND RETURN DUCTS WITH 0.6 FIBERGLASS DUCT WRAP OR 1" MINICOLITE 2" THICK AND 1" PER CUBIC FOOT DENSITY. WRAP INSULATION ENTIRELY AROUND DUCT AND WIRE SECURELY IN PLACE WITH #6 WIRE 12" O.C. ON EACH SIDE OF STANDING SEAM AND OVER INSULATION JOINT. LAP ALL INSULATION JOINTS 3" MIN. INSULATE DUCTS TIGHT AGAINST OTHER WORK BEFORE HANGING IN PLACE.

14. AT TIME OF ROUGH INSTALLATION OR DURING STORAGE OF THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HVAC SYSTEM, ALL DUCTING AND RELATED AIR DISTRIBUTION COMPONENTS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.

15. AIR DISTRIBUTION SYSTEM SHALL BE BALANCED WITH AN APPROVED AND CALIBRATED AIR FLOW MEASURING DEVICE. PROVIDE OWNER WITH COMPLETE AIR BALANCE REPORT IN ACCORDANCE WITH THE SPECIFICATIONS.

16. NO DUCTED OR NON-DUCTED AIR MOVING DEVICE SHALL TERMINATE IN ATTIC.

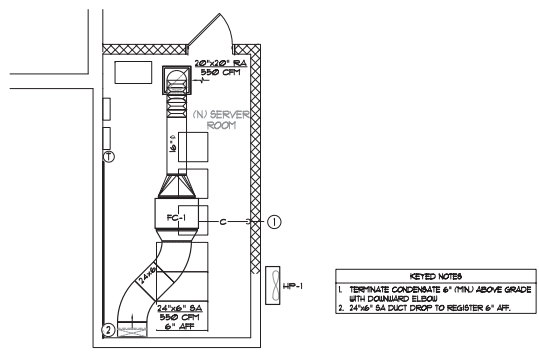
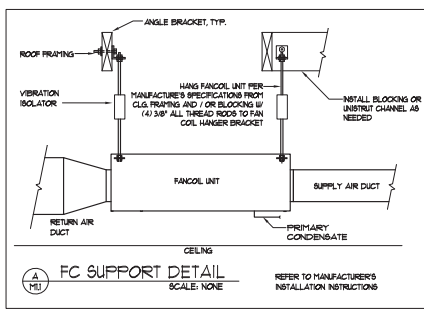
17. INSULATE CONDENSATE LINE WITH ARMSTRONGS 1" (1/2" WALL THICKNESS, TG TUBO-SLIT, COND-429 (BTU-IN/HR-F)) AT 15°F IN ACCORDANCE WITH ASTM C 111 OR C 818 WITH THIRD PARTY TESTING SUPERVISION.



### HVAC EQUIPMENT SCHEDULE

SYMBOL	AREA SERVED	COOLING			HEATING		FAN		ELECT.				MFR & MODEL NO.	WEIGHT (LBS)	EFFICIENCY	REMARKS	
		TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	COIL EDB/EWB (°F)	HIGH INPUT/OUTPUT (BTU/HR)	DB (°F)	CFM	S.P. (W)	O.A. (CFM/1) (MIN)	VOLTAGE	MCA	COMP. IRA					FUSE/MOCP
FC-1	(N) SERVER ROOM	17,500	12,500	80/65	21,600	47	554	---	(2)	(2)	0.21	---	(2)	FUITSU # ARU18RLF	49	---	INDOOR HEAT PUMP FANCOIL UNIT DIMENSIONS: H=23-1/16", W=35-7/16", D=24-7/16" BUILT-IN FLOAT SWITCH FOR CONDENSATE SOUND - 32 DBA
HP-1	(N) SERVER ROOM	17,500	12,500	80/65	21,600	47	---	---	208/230 V, 1 PHASE	17.3	---	20	FUITSU # AOU18RFC	86	HSPF +10.5 SEER + 19.7 EER+ 12.0	GROUND MOUNTED OUTDOOR HEAT PUMP DIMENSIONS: H=24-7/16", W=34-1/2", D=13-7/8"	

**NOTES:**  
 1. RECEPTION, STORAGE & HALLWAY WILL BE PROVIDED BY NATURAL VENTILATION.  
 2. ELECTRICAL FOR ROOF UNIT WILL BE PROVIDED BY OUTDOOR UNIT HP.



### HVAC FLOOR PLAN

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

NC JUVENILE HALL DISPATCH

15434 CA 49  
NEVADA CITY, CA

HVAC FLOOR PLAN

Project Title: \_\_\_\_\_

Revisions:

No.	Date:	By:	Description:

Plot Date: 7/31/2020

Job #: 20-025

Scale: as noted

Date 1st Issued: 6-10-2020

Sheet Number: M1.1

FIELD SET

**WIRING DEVICE SYMBOLS**

- ⊕ 20A, 125V, DUPLEX RECEPTACLE OUTLET, ALPHABET INDICATES SPECIAL MOUNTING HEIGHT PER LIST:  
 a - +84" AFF  
 b - ABOVE COUNTER BACKSPLASH  
 c - LOCATE ON WALL ABOVE WINDOW, APPROX. 9" AFF  
 \*Controlled\* - CONTROLLED RECEPTACLE. PROVIDE A PERMANENT AND DURABLE LABEL INDICATING WHICH RECEPTACLE IS CONTROLLED E.G. "CONTROLLED"
- ⊕ 20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET
- ⊕ SEQ TYPE: 20A, 125V, DUPLEX RECEPTACLE, +18" A.F.F. TO CENTERLINE. PROVIDE WET-RATED DEVICE AND USE WEATHER-PROOF COVER FOR WET LOCATION INSTALLATIONS.
- ⊕ SPECIAL PURPOSE RECEPTACLE OUTLET; RATING AS SHOWN; +18" A.F.F. TO CENTERLINE
- ⊕ 20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET, HALF-SHARED INDICATES ONE CONTROLLED DUPLEX OUTLET. PROVIDE A PERMANENT AND DURABLE LABEL INDICATING WHICH RECEPTACLE IS CONTROLLED E.G. "CONTROLLED"
- S<sub>0</sub> DIMMER SWITCH
- S TOGGLE SWITCH
- ⊕ (S)<sub>0,a,b</sub> OCCUPANCY LIGHT CONTROL SWITCH; WALL AND CEILING MOUNTED
- (S)<sub>0,a,b</sub> UPPER CASE LETTER INDICATES SENSOR TYPE PER OCCUPANCY SENSOR SCHEDULE.
- LOWER CASE LETTER INDICATES SWITCH CIRCUIT FOR FIXTURE

**CONDUIT SYMBOLS**

- CONDUIT INSTALLED CONCEALED ABOVE CEILINGS OR IN WALLS IN FINISHED AREAS OR EXPOSED IN UNFINISHED AREAS
- CONDUIT INSTALLED BELOW FINISHED FLOOR OR BELOW GRADE
- INDICATES CONDUIT TURNING UP
- INDICATES CONDUIT TURNING DOWN
- CONDUIT STUBBED OUT AND CAPPED
- ↘ CONDUIT HOMERUN; ROUTE TO PANELBOARD, CABINET, OR TERMINAL BOARD INDICATED, AND TERMINATE CONDUCTORS TO CIRCUIT OVER CURRENT PROTECTING DEVICE

**TELECOMMUNICATIONS SYMBOLS**

- NOTE: RACEWAY ONLY OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" CONDUIT AND PULLSTRING TO ACCESSIBLE CEILING SPACE.
- ⊕ TELEPHONE/DATA OUTLET

**DESIGNATION SYMBOLS**

- XXXX FEEDER DESIGNATION TAG
- ① SHEET NOTE TAG
- ⊕ FIXTURE DESIGNATION  
 UPPER CASE LETTER INDICATES FIXTURE TYPE.  
 LOWER CASE LETTER INDICATES SWITCH FOR FIXTURE.  
 NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN).
- S<sub>0</sub> LETTER INDICATES FIXTURES CONTROL (WHERE SHOWN)
- ⊕22 NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN)

**POWER SYMBOLS**

- SURFACE MOUNTED PANEL OR TERMINAL CABINET
- FLUSH MOUNTED PANEL OR TERMINAL CABINET
- ⊕-⊕ JUNCTION BOX; WALL MOUNTED, CEILING MOUNTED
- ⊕ MOTOR OUTLET
- ⊕ FUSED DISCONNECT SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE
- ⊕ NON-FUSED DISCONNECT SWITCH XX/XX = AMP SWITCH/POLES
- ⊕ TRANSFORMER
- ⊕225 STATIONARY - CIRCUIT BREAKER; RATING AS SHOWN ON PLANS; AMPS/POLES
- T Δ Δ TRANSFORMER WITH GROUND PER NEC

**LIGHTING SYMBOLS**

- RECESSED LIGHTING FIXTURE AND OUTLET BOX. TYPE AND SIZE PER FIXTURE SCHEDULE.
- ⊕ EMERGENCY BATTERY UNIT WITH OR WITHOUT EXIT SIGN
- ⊕ EXIT SIGN; WALL MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS
- ⊕ EXIT SIGN; CEILING MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS
- STRIP LIGHT FIXTURE; LENGTH PER FIXTURE SCHEDULE. CUSTOM LENGTHS PER PLAN.

**GENERAL NOTES**

1. CONTRACTOR IS RESPONSIBLE FOR READING AND INCLUDING ALL INFORMATION PROVIDED IN THE WRITTEN NOTES THROUGHOUT THE DRAWINGS. SYSTEM REQUIREMENTS MAY NOT BE PICTORIAL.
2. FURNISH ALL LABOR, MATERIALS, EQUIPMENT & SERVICES NECESSARY TO CONSTRUCT AND INSTALL COMPLETE & OPERATIONAL ELECTRICAL SYSTEMS INDICATED ON THE DRAWINGS & IN THE SPECIFICATIONS.
3. PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES FOR ALL MODIFIED PANELS TO INDICATE NEW AS-BUILT CONDITION.
4. PROVIDE MELAMINE PLASTIC ENGRAVED LABELS FOR PANELS, MAIN SWITCHBOARD DISCONNECTS, AND ALL MAJOR ELECTRICAL EQUIPMENT.
5. ALL NEW CONDUITS, WITHIN FINISHED SPACES, SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
6. ALL ELECTRICAL DEVICES INDICATED ON THESE SHEETS ARE NEW UNLESS OTHERWISE NOTED AND ARE TO BE INSTALLED PER SRC11176.6
7. DO NOT INSTALL RECEPTACLES OR TELEPHONE OUTLETS BACK-TO-BACK IN DEMISING WALLS.
8. FURNISH AND INSTALL FIRE-RATED BACK BOXES IN FIRE RATED WALLS AND CEILINGS WHERE ELECTRICAL EQUIPMENT SUCH AS LIGHT FIXTURES, SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC. ARE INSTALLED RECESSED. SEPARATE ELECTRICAL BOXES BACK TO BACK IN FIRE-RESISTIVE WALLS BY A MINIMUM OF 24" HORIZONTALLY AND BOX AREA NOT TO EXCEED 16 IN. SQ. PROVIDE STEEL BOXES (OR OTHER LISTED BOXES) PER 2013 CALIFORNIA BUILDING CODE 712.3.2.
9. PROVIDE ALL SYSTEMS, EQUIPMENT, DEVICES, MATERIALS, FEEDERS, WIRING, CONDUITS AS SPECIFIED, WHETHER SHOWN OR NOT SHOWN ON FLOOR PLANS.
10. PROVIDE #12 CONDUCTORS FOR ALL WIRING FOR CIRCUITS WHERE NOT SHOWN ON DRAWINGS. NUMBER AS REQUIRED IN CONDUIT SIZED PER NEC.
11. INSTALL AND CONNECT A CODE SIZE INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDER CONDUITS. THESE EQUIPMENT GROUND WIRES MAY NOT BE SHOWN ON THE PLANS. INCREASE CONDUIT SIZE WHERE REQUIRED.
12. ELECTRICAL PANELBOARDS SHALL HAVE DOOR-IN-DOOR FRONT COVERS.
13. FEEDERS ROUTED EXPOSED AT CEILING OR WALL SHALL BE APPROVED PRIOR TO ROUGH-IN.
14. VERIFY CONTROL REQUIREMENTS FOR EXHAUST FANS, AIR CONDITIONING UNITS, AND FANS WITH CONTRACTOR PRIOR TO ROUGH-IN.

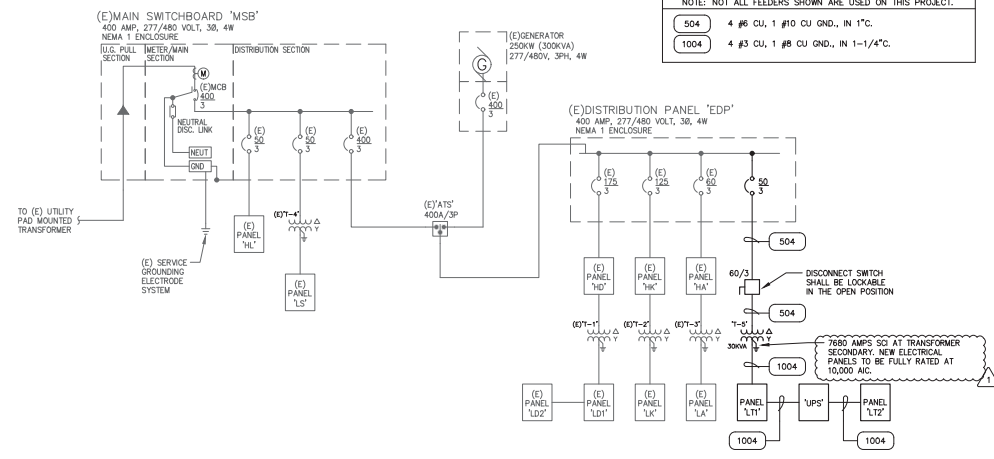
**DEMOLITION NOTES**

1. ALL EXISTING DEVICE LOCATIONS ARE TO REMAIN UNLESS DEMOLITION WORK REQUIRES THEIR REMOVAL. NOT ALL EXISTING DEVICES ARE SHOWN.
2. AS NEEDED TO MAINTAIN CIRCUIT CONTINUITY; PROVIDE A NEW PATHWAY AND CONDUCTORS TO REMAINING DEVICES.
3. WHERE DEVICES ARE DEMOLISHED OR RELOCATED, REMOVE CONDUCTORS BACK TO NEAREST JUNCTION BOX AND REMOVE ALL ABANDONED PATHWAY FROM AREA OF WORK.
4. WHERE DEVICES OR LUMINAIRES ARE DEMOLISHED OR RELOCATED, PATCH, REPAIR AND REFINISH SURFACES.
5. MAINTAIN CIRCUIT CONTINUITY TO ALL REMAINING DEVICES. FIELD CHECK AND VERIFY THAT ALL EXISTING GROUNDING, TO EXISTING DEVICES TO REMAIN, IS ADEQUATELY TERMINATED. PROVIDE NEW GROUND WIRE AS NEEDED.

**WORK STATEMENT**

1. ONE EXISTING LIGHT FIXTURE IS TO BE RELOCATED.
2. NEW TRANSFORMER AND ELECTRICAL PANEL IN NEW I.T. ROOM.
3. POWER AND LIGHTING TO NEW I.T. ROOM.
4. NEW KITCHEN EQUIPMENT IN EXISTING BREAK ROOM.
5. NEW POWER TO CALL CENTER ROOM.
6. EXISTING LIGHTING TO REMAIN, UNLESS OTHERWISE NOTED.
7. EXISTING RECEPTACLES TO REMAIN UNLESS OTHERWISE NOTED.

FEEDER SCHEDULE	
<b>Key</b> A = Aluminum C = Conduit only S = Service secondary NOTE: NOT ALL FEEDERS SHOWN ARE USED ON THIS PROJECT.	
504	4 #6 CU, 1 #10 CU GND., IN 1".
1004	4 #3 CU, 1 #8 CU GND., IN 1-1/4".



**ONE-LINE DIAGRAM**  
SCALE: NONE

ABBREVIATIONS	
AFP	ABOVE FINISHED FLOOR
CU	COPPER
EX	EXISTING TO REMAIN
EXL	EXISTING RELOCATED TO THIS LOCATION
GFIC	GROUND FAULT CIRCUIT INTERRUPTING
G	GROUND
NL	NIGHT LIGHT CIRCUIT
RM	TO BE REMOVED/DEMOLISHED
TRIP	UNLESS OTHERWISE NOTED
W/P	WEATHERPROOF

ELECTRICAL SHEET INDEX		
SHEET	DESCRIPTION	SCALE
B.1	LEGEND ONE-LINE DIAGRAM & PANEL SCHEDULE	NONE
E.1	LIGHTING PLAN & SCHEDULES	1/8" = 1'-0"
B.1	POWER PLAN	1/8" = 1'-0"

SUBMITTAL STAMP  
 PERMIT  
 SUBMITTAL 1  
 DATE: 07-31-2020

RUSSELL DAVIDSON  
 ARCHITECTURE + DESIGN  
 russell@rda.com

**Spectral Engineering**  
 Electrical Consulting Engineers

CONTACT: MEG L. HOBBS, P.E. LEED AP  
 EMAIL: meg.hobbs@SPECTRALENGINEERING.COM  
 PHONE: 200-370-0701

stamp



NEVADA COUNTY YOUTH CENTER DISPATCH REMODEL

15434 CA-49  
 NEVADA CITY, CA 95959  
 APN: 005-050-001-015

ID	NAME	DATE
1	PLAN REVIEW #1	08-2020

SUBMITTED:	02-01-2020
SCALE:	AS NOTED
DRAWN BY:	JL
CHECKED BY:	MLH
JOB:	

**LEGEND, ONE-LINE DIAGRAM, AND NOTES**

**E0.1**

**FIELD SET**

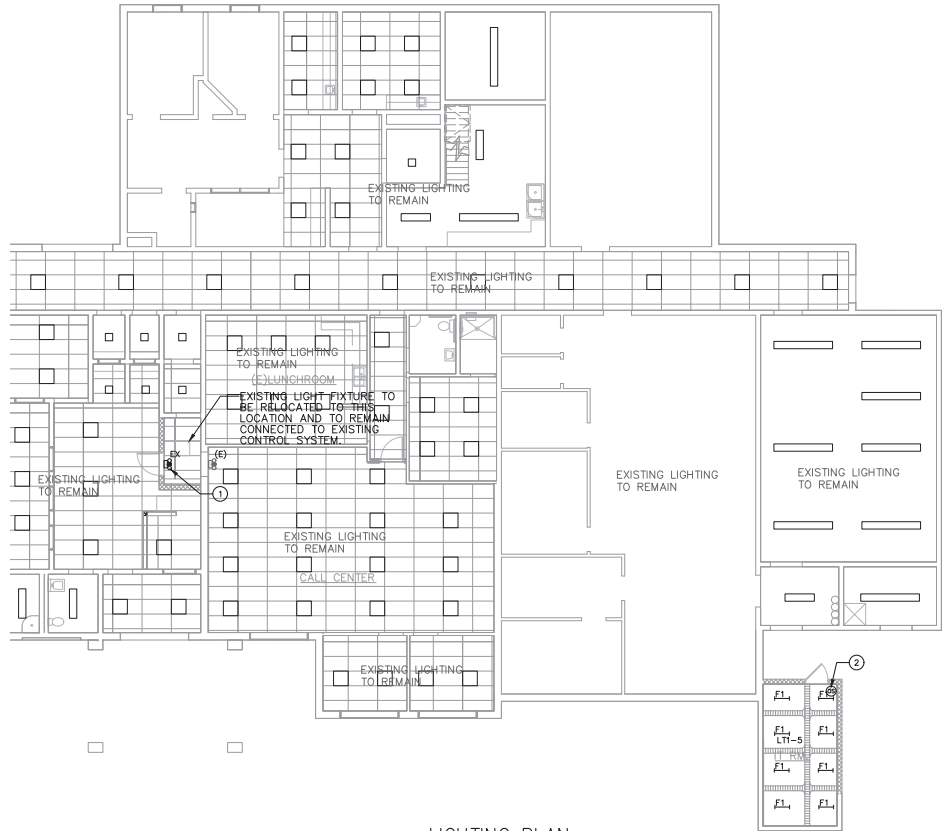




LIGHTING FIXTURE SCHEDULE (7/8/2019)									
TYPE	DESCRIPTION	MANUF.	CATALOG #	LAMP			MOUNTING	NOTES	
				TYPE	No.	WATTS			
F	2' LED UTILITY STRIP LIGHT, 2000 LUMENS, 80 CRI, WHITE FINISH	LITHONIA	CDS-L24-MVOLT-DM-35K-80CRI-WH	3500K	1	21	0-10V LED DRIVER	IT ROOM	
F2	NOT USED	LITHONIA	CDS-L48-MVOLT-DM-35K-80CRI-WH	3500K	1	38	0-10V LED DRIVER	NOT USED	
X	EXIT SIGN, GREEN LETTERING, LED, WHITE HOUSING	LITHONIA	LHGM-LED-B-G-HO-RD	LED	-	-	-	EGRESS PATHWAYS, DOORS	

NOTES:

- ALL LED FIXTURES TO BE PROVIDED WITH NO LESS THAN A 5-YEAR WARRANTY.
- ENGINEER OF RECORD IS NOT RESPONSIBLE FOR FIELD CHANGES. CONTRACTOR TO VERIFY ALL CODE REQUIREMENTS, PRIOR TO SUBMITTING SUBSTITUTION.
- LAMPS TO HAVE 80+ CRI UNLESS OTHERWISE NOTED.
- SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
- PROVIDE SUBMITTALS THAT INCLUDE THE INFORMATION PROVIDED ABOVE ON EACH LUMINAIRE TYPE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.



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

SHEET NOTES

- PROVIDE NEW EMERGENCY/EXIT COMBO LIGHT AND CONNECT TO EXISTING CIRCUIT IN THIS LOCATION. MATCH EXISTING EXIT LIGHT MAKE/MODEL.
- PROVIDE PIR VACANCY SENSOR. MANUAL 'ON' WITH 15 MINUTE DELAY.

GENERAL NOTES

- CONTRACTOR SHALL PROVIDE A COMPLETE INSTALLATION INCLUDING ALL WORK REQUIRED TO PROVIDE A COMPLETE AND OPERATING SYSTEM FOR THE IMPROVEMENTS INDICATED.
- ALL CONDUITS AND RACEWAYS SHALL BE RUN IN LOCATIONS WHERE THEY WILL NOT BE VISIBLE.
- PROVIDE 2 #12 CONDUCTORS AND 1 #12 GROUND UL-INLESS OTHERWISE NOTED.
- INTERIOR ELECTRICAL PANELS TO BE NEMA1 WITH LOCKING ENCLOSURE.
- INTERIOR CONDUIT TO BE INSTALLED AT 90-DEGREE ANGLES TO WALLS IN A NEAT AND ORDERLY MANNER.

NOTE: EXISTING LIGHTING IS PROVIDED THROUGHOUT BUILDING IS PROVIDED WITH GENERATOR BACK-UP POWER FOR EMERGENCY LIGHTING REQUIREMENTS.

RUSSELL DAVIDSON  
ARCHITECTURE + DESIGN  
davidsonarch.com

Spectral Engineering  
Electrical Consulting Engineers

CONTACT: MEG L. HOBBS, P.E., LEED AP  
EMAIL: meg.hobbs@spectralengineering.com  
PHONE: 530-375-0701

stamp



NEVADA COUNTY YOUTH CENTER  
DISPATCH REMODEL

15434 CA-49  
NEVADA CITY, CA 95959  
APN: 005-050-015

ID	NAME	DATE
1	PLAN REVIEW #1	08-2020

SUBMITTED: 02-01-2020  
SCALE: AS NOTED  
DRAWN BY: JL  
CHECKED BY: MLH  
JOB:

LIGHTING PLAN

SUBMITTAL STAMP  
RE-SUBMITTAL #1  
DATE: 09-08-2020

E2.1

FIELD SET







Project Name:	Nevada County Juvenile Hall Server Addition	NRCC-PRF-01-E	Page 1 of 13
Project Address:	15434 Hwy. 49 Nevada City 95959	Calculation Date/Time:	15:12, Fri, Mar 13, 2020
Input File Name:	Nevada County Juvenile Hall Server Addition - 20025.cbdl3n		

<b>A. GENERAL INFORMATION</b>			
1. Project Location (City)	Nevada City	8. Standards Version	Compliance2019
2. CA Zip Code	95959	9. Compliance Software (version)	EnergyPro 8.0
3. Climate Zone	11	10. Weather File	MARVILL-BALE-APR_724837_C22010.apw
4. Total Conditioned Floor Area in Scope	237.82 (237.112 Building, Total)	11. Building Orientation (deg)	90-D (ing)
5. Total Unconditioned Floor Area	0.00	12. Permitted Scope of Work	Heat/vent/Plumb/Mechanical
6. Total # of Stories (Habitable Above Grade)	0	13. Building Type(s)	Nonresidential
7. Total # of dwelling units	0	14. Gas Type	NaturalGas

<b>B. PROJECT SUMMARY</b>			
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 within permit application.			
Building Components Complying by Performance		Building Components Complying Prescriptively	
Envelope	<input checked="" type="checkbox"/> Performance <input type="checkbox"/> Not Included	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included	Covered Process: Commercial Kitchens NRCC-LFD-E is required
Mechanical	<input checked="" type="checkbox"/> Performance <input type="checkbox"/> Not Included	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included	Indoor Lighting (Unconditioned)§140.6 NRCC-LFD-E is required
Domestic Hot Water	<input checked="" type="checkbox"/> Performance <input type="checkbox"/> Not Included	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included	Sign Lighting §140.8 NRCC-LTS-E is required
Lighting (Indoor Conditioned)	<input type="checkbox"/> Performance <input checked="" type="checkbox"/> Not Included	Mandatory Measures Electrical power systems, commissioning and other ready requirements are mandatory and should be documented on the NRCC form listed if required (i.e. compliance will not be shown on the NRCC-PRF-E.)	
Solar Thermal Water Heating	<input checked="" type="checkbox"/> Performance <input type="checkbox"/> Not Included	Commissioning §120.8 NRCC-COR-E is required Solar Ready §110.10 NRCC-SRA-E is required	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16

Project Name:	Nevada County Juvenile Hall Server Addition	NRCC-PRF-01-E	Page 2 of 13
Project Address:	15434 Hwy. 49 Nevada City 95959	Calculation Date/Time:	15:12, Fri, Mar 13, 2020
Input File Name:	Nevada County Juvenile Hall Server Addition - 20025.cbdl3n		

<b>C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kWh/ft<sup>2</sup>-yr)</b>				
<b>COMPLIES</b>				
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)	
Space Heating	6.98	20.52	-13.54	
Space Cooling	79.68	51.81	27.87	
Indoor Fans	122.68	6.50	116.18	
Heat Rejection	-	-	-	
Pumps & Misc.	-	-	-	
Domestic Hot Water	28.44	98.40	-69.96	
Indoor Lighting	18.42	18.62	-0.20	
<b>ENERGY STANDARDS COMPLIANCE TOTAL</b>	<b>255.40</b>	<b>195.85</b>	<b>59.55 (23.3%)</b>	
*Notes: The number in parenthesis following the Compliance Margin in column 4, represents the Percent better than Standard.				

<b>C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS<sup>1</sup></b>				
[ ] This project is pursuing California Tier 1 [ ] This project is pursuing California Tier 2				
Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)	
Receptacle	200.72	200.72	0.00	
Process	-	-	-	
Other Lig	-	-	-	
Process Motors	-	-	-	
<b>COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS</b>	<b>456.12</b>	<b>396.57</b>	<b>59.55 (13.1%)</b>	
*Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.				

<b>D. EXCEPTIONAL CONDITIONS</b>				
This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptively) before occupying.				

<b>E. HERS VERIFICATION</b>				
This Section Does Not Apply				

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16

Project Name:	Nevada County Juvenile Hall Server Addition	NRCC-PRF-01-E	Page 3 of 13
Project Address:	15434 Hwy. 49 Nevada City 95959	Calculation Date/Time:	15:12, Fri, Mar 13, 2020
Input File Name:	Nevada County Juvenile Hall Server Addition - 20025.cbdl3n		

<b>F. ADDITIONAL REMARKS</b>				
This Section Does Not Apply				

<b>G. ENVELOPE GENERAL INFORMATION</b>				
1	2	3	4	
Opaque Surfaces & Orientation	Total Gross Surface Area (ft <sup>2</sup> )	Total Fenestration Area (ft <sup>2</sup> )	Window to Wall Ratio (%)	
North-Facing <sup>1</sup>	148.81	0.01	0.00%	
East-Facing <sup>1</sup>	230.71	0.01	0.00%	
South-Facing <sup>1</sup>	139.91	0.01	0.00%	
West-Facing <sup>1</sup>	209.81	0.01	0.00%	
Total	729.24	0.04	0.00%	
Roof	237.82	0.01	0.00%	
Notes: <sup>1</sup> 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). <sup>2</sup> 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). <sup>3</sup> 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). <sup>4</sup> 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).				

<b>H. FENESTRATION ASSEMBLY SUMMARY §110.6</b>				
This Section Does Not Apply				

<b>I. ENVELOPE DETAILS §120.7 &amp; §140.3</b>								
<b>1. OPAQUE SURFACE ASSEMBLY SUMMARY</b>								
1	2	3	4	5	6	7	8	9
Surface Name	Surface Type	Description of Assembly Layers	Area (ft <sup>2</sup> )	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Field Inspector Pass/Fail
Slab On Grade?	Underground/Floor	Slab Type = Unheated/SlabOnGrade Insulation Orientation = None Insulation R-Value = R0	237	NA	0	NA	U-Factor: 0.730	N

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16

Project Name:	Nevada County Juvenile Hall Server Addition	NRCC-PRF-01-E	Page 4 of 13
Project Address:	15434 Hwy. 49 Nevada City 95959	Calculation Date/Time:	15:12, Fri, Mar 13, 2020
Input File Name:	Nevada County Juvenile Hall Server Addition - 20025.cbdl3n		

<b>J. ENVELOPE DETAILS §120.7 &amp; §140.3</b>								
<b>1. OPAQUE SURFACE ASSEMBLY SUMMARY</b>								
1	2	3	4	5	6	7	8	9
Surface Name	Surface Type	Description of Assembly Layers	Area (ft <sup>2</sup> )	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Field Inspector Pass/Fail
R-19 Roof Cathedral	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. in. min. Wood framed roof, 3.5in. OC, 7.25in. R-13 Gypsum Board - 1/2 in.	237	Wood	19	NA	U-Factor: 0.050	N
8 CMU Wall R-13 Furring-11	ExteriorWall	Concrete - Part Grounded and Empty - 125 #3 @ 18 in. Wood framed wall, 3.5in. OC, 3.5in., R-13 Gypsum Board - 1/2 in.	786	Wood	13	NA	U-Factor: 0.085	N

<b>K. OVERHAUNG DETAILS</b>				
This Section Does Not Apply				

<b>L. OPAQUE DOOR SUMMARY</b>				
This Section Does Not Apply				

<b>M. CHRC ROOFING PRODUCT SUMMARY §140.3</b>				
This Section Does Not Apply				

<b>N. HVAC SYSTEM SUMMARY §110.1 &amp; §110.2</b>				
This Section Does Not Apply				

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16

Project Name:	Nevada County Juvenile Hall Server Addition	NRCC-PRF-01-E	Page 5 of 13
Project Address:	15434 Hwy. 49 Nevada City 95959	Calculation Date/Time:	15:12, Fri, Mar 13, 2020
Input File Name:	Nevada County Juvenile Hall Server Addition - 20025.cbdl3n		

<b>K1. Dry System Equipment (furnaces, air handling units, heat pumps, VRF, etc.)</b>												
Dry System Equipment (Fan & Economizer info included below in Table N)												
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supply Heat Source (V/N)	Supply Heat Output (kBtu/h)	Efficiency	Total Cooling Output (kBtu/h)	Efficiency				
Server3	Exhaust (NA)	1	0	0	0	NA	NA	NA				
HVAC	MiniSplitHP (SplitPhase)	1	18	Yes	10	HSF-8.200	15	SEER 14.000 / EER 12.700				

<b>K2. ECONOMIZER &amp; FAN SYSTEMS SUMMARY §140.4<sup>1</sup></b>												
1	2	3	4	5	6	7	8	9	10	11	12	13
Name or Item Tag	System Type	Design OA packaged, DOAS, etc.	CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control	Economizer Type (if present)
HVAC	MiniSplitHP	0	547	0.032	27.9	ConstantVolume	NA	NA	NA	NA	NA	NA

<b>K3. EXHAUST FAN SUMMARY</b>												
System ID	Zone Name	Qty	CFM	Motor BHP	Motor Watts	Total Static Pressure (in H2O)						
Server3	1-Server	1	30	0.016	14.0	2.20						

<b>K4. Wet System Equipment (boilers, chillers, cooling towers, etc.)</b>												
Item Tag	Equipment Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss						
							QTY	GPM	HP	VSD (V/N)		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16

Project Name:	Nevada County Juvenile Hall Server Addition	NRCC-PRF-01-E	Page 6 of 13
Project Address:	15434 Hwy. 49 Nevada City 95959	Calculation Date/Time:	15:12, Fri, Mar 13, 2020
Input File Name:	Nevada County Juvenile Hall Server Addition - 20025.cbdl3n		

<b>K5. SYSTEM FEATURES §120.2</b>					
System Name	Optimum Start	Window Interlocks per §140.4(a)	Evaporator Cooling	Heat Recovery	Other Controls
No DHW - SHW	NA	NA	NA	NA	Fixed Temperature Control, No DDC

<b>K6. MECHANICAL VENTILATION AND REHEAT §120.1</b>								
1	2	3	4	5	6	7	8	9
Zone Name	Ventilation Fraction	# hotel rooms	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (ft <sup>2</sup> )	DCV or Occupant Sensor Controls, or Both	
1-Server	General - Unoccupied	0	0.36	0	0	30	237	

<b>K7. DISTRIBUTION SYSTEMS §120.4/140.4(i)</b>				
Equipment Name	Duct Leakage Verification %/N	Insulation R-Value	Ducts	Location
HVAC	No	8	Ductless	N

<b>K8. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY § 140.4</b>										
System ID	Zone Name	System Type	Rated Capacity (kBtu/h)	Airflow (cfm)	Min. Ratio	BHP	Watts	Cycles	ECM Motor	
HVAC	1-Server	MiniSplitHP	18.00	15.00	547	NA	NA	0.032	27.9	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16

Project Name:	Nevada County Juvenile Hall Server Addition	NRCC-PRF-01-E	Page 7 of 13
Project Address:	15434 Hwy. 49 Nevada City 95959	Calculation Date/Time:	15:12, Fri, Mar 13, 2020
Input File Name:	Nevada County Juvenile Hall Server Addition - 20025.cbdl3n		

<b>K9. EVAPORATIVE COOLER SUMMARY</b>				
This Section Does Not Apply				

<b>L. DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY</b>										
<b>L1. DHW EQUIPMENT SUMMARY</b>										
1	2	3	4	5	6	7	8	9	10	11
DHW Name	Heater Element Type	Tank Type	City	Tank Vol (gal)	Rated Input (kBtu/h)	Efficiency	Tank Insulation R-Value (in/Eqt)	Standby Loss Fraction	Heat Pump Type	Tank Location or Ambient Condition
Gas Storage?	Gas	Storage	1	50.00	35	LEP: 0.58	NA	SELF: NA	NA	NA

<b>L2. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS</b>				
This Section Does Not Apply				

<b>L3. SOLAR HOT WATER HEATING SUMMARY</b>				
This Section Does Not Apply				

<b>M. COVERED PROCESS SUMMARY §140.9</b>				
This Section Does Not Apply				

<b>N. INDOOR LIGHTING SUMMARY §140.6</b>				
This Section Does Not Apply				

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16

Project Name:	Nevada County Juvenile Hall Server Addition	NRCC-PRF-01-E	Page 8 of 13
Project Address:	15434 Hwy. 49 Nevada City 95959	Calculation Date/Time:	15:12, Fri, Mar 13, 2020
Input File Name:	Nevada County Juvenile Hall Server Addition - 20025.cbdl3n		

<b>O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION</b>				
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 shall be retained and provided to the building inspector during construction and can be found online at: <a href="https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/">https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/</a>				
Building Component	YES	NO	Form/Title	Field Inspector Pass/Fail
Envelope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-EN-01-E - Must be submitted for all buildings	<input type="checkbox"/>
Mechanical	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-MCH-01-E - Must be submitted for all buildings	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-PFB-01-E - Must be submitted for all buildings	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-PFB-02-E - Must be submitted for high-rise residential and hotel/motel central hot water distribution systems to be recognized for compliance	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-PFB-03-E - Must be submitted for all buildings	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-PFB-21-E - Must be HERS verified for central systems in high-rise residential/hotel/motel application	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-PFB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-CT-01-E - Must be submitted for all buildings	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-CT-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-CT-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting to be recognized for compliance	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-CT-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	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-CT-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-CT-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTD-01-E - Must be submitted for all buildings	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTD-02-E - Must be submitted for EMCS Lighting Control system	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTS-01-E - Must be submitted for all buildings	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTS-02-E - Must be submitted for all buildings	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-SPV-01-E - Must be submitted for all buildings	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16

Project Name:	Nevada County Juvenile Hall Server Addition	NRCC-PRF-01-E	Page 9 of 13
Project Address:	15434 Hwy. 49 Nevada City 95959	Calculation Date/Time:	15:12, Fri, Mar 13, 2020
Input File Name:	Nevada County Juvenile Hall Server Addition - 20025.cbdl3n		

<b>P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE</b>				
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 shall be retained and provided to the building inspector during construction and can be found online at: <a href="https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/">https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/</a>				
Building Component	YES	NO	Form/Title	Field Inspector Pass/Fail
Covered Process	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-PRC-01-E - Must be submitted for all Refrigerated Warehouses	<input type="checkbox"/>

<b>P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE</b>				
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 shall be retained and provided to the building inspector during construction and can be found online at: <a href="https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/">https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/</a>				
Building Component	YES	NO	Form/Title	Field Inspector Pass/Fail
Envelope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-ENV-02-F - NRCC label verification for fenestration	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-ENV-03-F - Daylighting Design PAFs	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-03042020-6104 Report Generated at: 2020-03-13 15:13:16

Project Name:	Nevada County Juvenile Hall Server Addition	NRCC-PRF-01-E	Page 10 of 13
Project Address:	15434 Hwy. 49 Nevada City 95959	Calculation Date/Time:	15:12, Fri, Mar 13, 2020
Input File Name:	Nevada County Juvenile Hall Server Addition - 20025.cbdl3n		

<b>P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE</b>				
Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to				



