

OF THE BOARD OF SUPERVISORS OF THE COUNTY OF NEVADA

RESOLUTION APPROVING THE BID CONSTRUCTION DOCUMENTS AND SPECIFICATIONS FOR THE NEVADA COUNTY DISPATCH REMODEL PROJECT, AUTHORIZING THE BOARD CHAIR TO SIGN THE DOCUMENTS AND DIRECTING THE PURCHASING AGENT TO SOLICIT BIDS (FACILITIES MANAGEMENT)

WHEREAS, the Nevada County Sheriff Dispatch is located at the Wayne Brown Correctional Facility (WBCF) at 925 Maidu Avenue in Nevada City; and

WHEREAS, the existing space at the WBCF is not adequate for 24/7 Dispatch operations and the Carl F. Bryan II Juvenile Hall Facility (CBJH) at 15434 Highway 49 in Nevada City has space available for the relocation; and

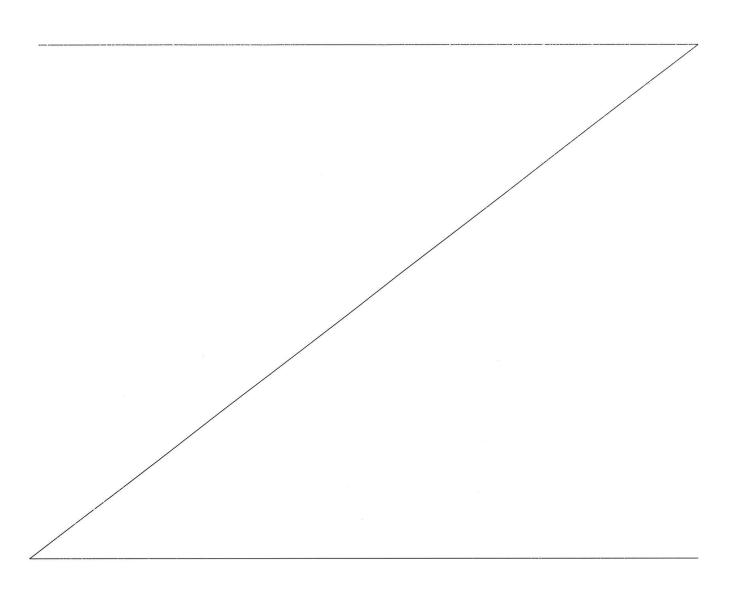
WHEREAS, a remodel of the space at the CBJH will be required which will include ADA parking and access, security access control, interior and exterior wall construction and associated mechanical and electrical work, flooring and paint, and a new concrete block server room; and

WHEREAS, the Chief Information Officer has prepared construction documents for the project known as the Nevada County Dispatch Remodel Project; and

WHEREAS, funding for this project will be paid from the Capital Facilities Fiscal Year 2020-21 budget and a budget amendment will be included in the contract award process.

NOW, THEREFORE, BE IT RESOLVED that the Board of Supervisors of the County of Nevada, State of California, hereby:

- 1. Approves the bid construction documents and specifications for the Nevada County Dispatch Remodel Project and authorizes the Chair of the Board of Supervisors to sign the documents.
- 2. Directs the Purchasing Agent to solicit bids for this project.



PASSED AND ADOPTED by the Board of Supervisors of the County of Nevada at a regular meeting of said Board, held on the 17th day of November, 2020, by the following vote of said Board:

Ayes:

Supervisors Heidi Hall, Edward Scofield, Dan Miller, Susan

K. Hoek and Richard Anderson.

Noes:

None.

Absent:

None.

Abstain:

None.

ATTEST:

JULIE PATTERSON HUNTER Clerk of the Board of Supervisors

By fall althorefute

Heidi Hall, Chair

11/17/2020 cc:

Facilities*
Purchasing*

County of Nevada Information & General Services Department Purchasing Division



Invitation for Bid

for

Nevada County Dispatch Remodel

Date issued: Tuesday, Nov. 17, 2020

Bids Due: 2:30 P.M. Monday, Jan. 11, 2021

Due to the State mandated social distancing policy, the County will conduct this public bid opening through the following on-line site:

Nevada County is inviting you to a scheduled TEAMS meeting at 2:30 p.m. January 11, 2021

Join on your computer or mobile app

Click here to join the meeting

Or call in (audio only) +1 530-414-9282,,639565590# United States, Truckee

Phone Conference ID: 639 565 590#

Pre-Bid Site Visit (recommended) 9:00 A.M. Wednesday, Dec 2, 2020

at:

Carl F. Bryan Juvenile Hall, 15434 Hwy 49 Nevada City, CA.

Due to the State mandated social distancing policy, the County will conduct the Pre-Bid meeting in person however, all participants are required to wear face masks and maintain a 6-foot distance between all attendees. In addition, the County will host a virtual Pre-Bid meeting for those unable to attend in person. A link to the virtual meeting is provided in the Bid documents

BIDDING DOCUMENTS, SPECIFICATIONS AND CONTRACT DOCUMENTS

(Standard Public Works Contract)

CONTRACT TIME LINE

- 1. CLOSE OF QUESTIONS: 5:00 P.M. Monday Dec. 14, 2020
- 2. BIDS DUE: 2:30 P.M. Monday, Jan 11, 2021 (See page 3 of Invitation for Bid)
- 3. BID OPENING: 2:30 P.M. Monday. Jan 11, 2021 (See page 3 of Invitation for Bid)
- 4. BIDS TO REMAIN OPEN FOR 60 DAYS FROM DATE OF OPENING OF BIDS (See paragraph 21 of Instructions to Bidders)
- 5. NOTICE OF AWARD DUE WITHIN 30 DAYS OF OPENING OF BIDS (See paragraph 23 of Instructions to Bidders and same as 3 above)
- BID BONDS OF UNSUCCESSFUL BIDDERS TO BE RETURNED WITHIN 10 DAYS OF AWARD BY COUNTY (See paragraph 18 of Instructions to Bidders)
- 7. CONTRACT SIGNING AND BONDS DUE WITHIN 5 DAYS OF NOTICE OF AWARD (See paragraph 24 and 26 of Instructions to Bidders)
- 8. NOTICE TO PROCEED WITH WORK DUE WITHIN 15 DAYS OF CONTRACT SIGNING (See paragraph 25 of Instructions to Bidders)
- 9. CONSTRUCTION MUST BEGIN WITHIN 10 DAYS AFTER MAILING OF NOTICE TO PROCEED (see Article III of Contract)
- 10. CONTRACTOR MUST GIVE 72 HOURS WRITTEN NOTICE OF DATE WORK WILL COMMENCE.
- 11. PRECONSTRUCTION CONFERENCE WITHIN 5 DAYS OF NOTICE TO PROCEED (See Article VIII of Contract)
- 12. SCHEDULES AND BREAKDOWN OF PHASES OF CONSTRUCTION DUE IN 7 DAYS AFTER RECEIPT OF NOTICE TO PROCEED (See Article VIII of Contract)
- 13. WORK MUST BE COMPLETED WITHIN 150 DAYS OF MAILING OF THE NOTICE TO PROCEED (See Article III of Contract)

INVITATION FOR BID

FOR:

NEVADA COUNTY DISPATCH REMODEL

LOCATED AT: 15434 Hwy 49 Nevada City, CA. 95959

Sealed bids will be received at the office of the:

Purchasing Division
Suite 129
County of Nevada
950 Maidu Ave.
Nevada City, California 95959

Due to State mandated social distancing policy, Submittals are to be received by mail, or if hand delivered, must be placed in a sealed envelope with the name of the project clearly printed on the front of the envelope and should be deposited at the designated table located in the Lobby of the Eric Rood Administrative Center. All bids will be dated and time-stamped once received by the County representative.

Until 2:30 P.M. local time on Monday, Jan. 11, 2021 for the above referenced project.

Bids received after said time will not be accepted and will be returned unopened.

At said place and time, and promptly thereafter, all bids that have been properly submitted will be publicly opened and read aloud. All interested parties are invited to attend.

Due to the State mandated social distancing policy, the County will conduct this public bid opening through the following on-line site: Nevada County is inviting you to a scheduled TEAMS meeting at 2:30 p.m. January 11, 2021

Join on your computer or mobile app

Click here to join the meeting

Or call in (audio only) +1 530-414-9282,,639565590# United States, Truckee

Phone Conference ID: 639 565 590#

The work to be performed includes the following:

Remodel existing space shown on plans and add concrete block server room. Including but not limited to: ADA parking and access, interior and exterior wall construction, mechanical, electrical, access control, cabinetry, flooring and paint. All work to be done in accordance with the plans and specifications for this project.

Bids shall be: **Lump Sum.** Bids must be for all work described herein unless the bid form specifically indicates a bid item is optional. Plans, specifications, proposal forms, project manuals and all documents relating to this project can only be obtained at the office or website

www.mynevadacounty.com/purchasing under *Current Requests for Bids and Proposals* Vendors must register with the County in order to be notified of addenda and other notices.

To register, please go to: https://www.publicpurchase.com/gems/register/vendor/register.

The County will not be providing printed copies of the plans to bidders for this project.

Contractor will be required to possess a **B** contractor's license at the time the bid is submitted.

A pre-bid walk-through will be held beginning at 9:00 A.M. Wednesday, Dec. 2, 2020 at the project site at 15434 Hwy 49 Nevada City, CA. 95959.

Due to the State mandated social distancing policy, the County will conduct the Pre-Bid meeting in person however, all participants are required to be wearing face masks and maintain a 6-foot distance between all attendees. In addition, the County will host a virtual Pre-Bid meeting for those unable to attend in person. A link to the virtual meeting is provided below:

Join on your computer or mobile app

Click here to join the meeting

Or call in (audio only) <u>+1 530-414-9282,,578906240#</u> United States, Truckee

Phone Conference ID: 578 906 240#

Bids will be accepted from bidders who did not attend the pre-bid conference, but bidders will be charged with all of the information disseminated at the pre-bid conference as if they had been present.

Questions regarding the Work or the contract Documents shall be submitted online on Public Purchase due before 5:00 p.m. Monday December 14, 2021.

Bids shall be received by **2:30 P.M. Monday, Jan. 11, 2021** For all bids over \$25,000, each bidder must submit a cashier's check, certified check or a bidder's bond in an amount equal to 10% of the total amount of the bid.

The bidder to whom a contract is awarded will be required to furnish a performance bond and a labor and materials bond guaranteeing faithful performance and payment of all debts related to this contract.

The County of Nevada, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252) and the regulations of the Department of Commerce (15 C.F.R., Part 8), issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

This is a public works project, subject to the prevailing wage requirements of the California Labor Code. Copies of the prevailing rate of per diem wages are available at the California Department of Industrial Relations web site **www.dir.ca.gov/DLSR/PWD/.** Contractor shall not pay less than the prevailing rate of wages. No contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015), unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)]. No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

No bid will be considered unless it is made on a form furnished by the County of Nevada and is made in accordance with the provisions of the proposal requirements and conditions set forth in the contract documents.

The County of Nevada reserves the right to reject any or all bids.

DATED: 11/17/20

COUNTY OF NEVADA STATE OF CALIFORNIA

Chairman, Board of Supervisors or

Purchasing Agent

INSTRUCTIONS TO BIDDERS

FOR:

Nevada County Dispatch Remodel

LOCATED AT: 15434 Hwy. 49 Nevada City, CA. 95959

1. <u>DEFINITIONS</u>

<u>Bidder</u>: One who submits a bid directly to County as distinct from a sub-bidder who submits a bid to a bidder.

<u>Successful Bidder</u>: The lowest, qualified, responsive, responsible bidder to whom County makes an award.

Bidding Documents:

Invitation for Bid
Instruction to Bidders
Bid Form
Bidders Bond or other security
Experience Statement
Subcontractor Listing
Bidder's Representations
Proposed Contract Documents
Any and all Addenda

2. COPIES OF BIDDING DOCUMENTS

Complete copies of the bid documents and specifications for use in preparing bids may be obtained in accordance with the Invitation for Bid. Bid documents are also available electronically and can be downloaded from www.mynevadacounty.com/purchasing under the Requests for Bids and Proposals section Requests For Proposal section. Addenda will also be posted to this location. Vendors must register with the County in order to be notified of addendums and other notices. To register, please go to: https://www.publicpurchase.com/gems/register/vendor/register.

Partial sets of bidding documents will not be issued. Complete sets of bidding documents shall be used in preparing bids. County assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of bidding documents. If bidder believes its set of bidding documents is incomplete, it shall be the responsibility of bidder to contact County to confirm that Bidder has a complete set.

County, in making copies of bidding documents available on the above terms, does so only for the purpose of obtaining bids on the work and does not confer a license or grant for any other use.

3. QUALIFICATIONS OF BIDDERS

Each bidder must be prepared to submit, within five days of County's request, written evidence of bidder's qualifications to perform the work. Bidders may be required to submit evidence that they have a practical knowledge of the particular work bid upon, and that they have the financial resources to complete the proposed work. In determining the bidder's qualifications, the following factors will be considered: work previously completed by the bidder and whether the bidder (a) maintains a permanent place of business, (b) has adequate plant and equipment to do the work properly and expeditiously, (c) has the financial resources to meet all obligations incident to the work, and (d) has appropriate technical experience. Each bidder may be required to show that he or she has handled former work so that no just claims are pending against such work. No bid will be accepted from a bidder who is engaged on any work which would impair his or her ability to perform or finance this work.

Each bidder must hold a current valid contractor's license at the time of bidding or the bid will be rejected.

4. INSPECTION OF SITE OF WORK

Bidders are required to inspect the site of the work in order to satisfy themselves, by personal examination or by such other means as they may prefer, of the location of the proposed work and as to the actual conditions of and at the site of work. If, during the course of the examination, bidder finds facts or conditions which appear confusing to bidder, bidder shall apply to County for additional information and explanation before submitting the bid. However, no such supplemental information so requested or furnished shall vary the terms of the specifications or the Contractor's sole responsibility to satisfy himself or herself as to the conditions of the work to be performed, unless an addendum has been issued.

The submission of a bid by the bidder shall constitute the acknowledgment that, if awarded the contract, bidder has relied and is relying on bidder's examination of (a) the site of the work, (b) the access to the site, and (c) all other data, matters, and things requisite to the fulfillment of the work and on bidder's own knowledge of existing conditions on and in the vicinity of the site of the work to be constructed under the contract, and not on any representation or warranty of County. No claim for additional compensation will be allowed which is based upon a lack of knowledge of the above items.

Where technical reports or data have been utilized in the preparation of the contract documents, bidder may rely upon the accuracy of the technical data contained in such reports but not upon the interpretations or opinions contained therein for the completeness thereof for the purpose of bidding or construction.

Where plans and specifications contain drawings of physical conditions in or relating to existing surface conditions, including underground facilities, which are at or contiguous to the site, bidder may rely upon the accuracy of the data contained in such drawings but not upon the completeness thereof for the purposes of bidding or construction. If a mass diagram has been prepared for a project, it is for design purposes only. If it is made available to bidders, County assumes no responsibility whatever for the information contained therein and makes no quarantees with respect to reliance thereon.

Before submitting a bid, each bidder will, at bidder's own expense, make or obtain any additional examinations, investigations, explorations, tests and studies and obtain any additional information and data which pertain to the physical conditions (surface, subsurface and underground facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance or furnishing of the work and which bidder deems necessary to determine its bid for performing and furnishing the work in accordance with the time, price and other terms and conditions of the contract documents.

On request in advance, County will provide each bidder access to the site to conduct such explorations and tests as each bidder deems necessary for submission of a bid. Bidder shall fill all holes, clean up and restore the site to its former condition upon completion of such explorations.

The lands upon which the work is to be performed, rights-of-way and easements for access thereto and other lands designated for use by Contractor in performing the work are identified in the contract documents. All additional lands and access thereto required for temporary construction facilities or storage of materials and equipment are to be provided by Contractor. Easements for permanent structures or permanent changes in existing structures are to be obtained and paid for by County unless otherwise provided in the contract documents.

5. EXAMINATION OF CONTRACT DOCUMENTS

The contract documents shall consist of the following:

- Invitation for Bid
- 2. Instruction to Bidders
- 3. Contractor's Bid (including documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Award)
- 4. Contract
- 5. Addenda which pertain to the Contract
- 6. The Bonds or other security
- 7. Any supplementary conditions or any and all written agreements amending or extending the work, time or price contemplated
- 8. The Plans and Specifications and Drawings as identified in the Contract
- 9. Certificates of Insurance

Each bidder shall thoroughly examine and be familiar with legal and procedural documents, general conditions, specifications, drawings and addenda (if any). The submission of a bid shall constitute an acknowledgment upon which County may rely that the bidder has thoroughly examined and is familiar with the contract documents. The failure or neglect of a bidder to receive or examine any of the contract documents shall in no way relieve that bidder from any obligation with respect to that bidder's bid or to the contract. No claim for additional compensation will be allowed which is based upon a lack of knowledge of any contract documents.

6. INTERPRETATION OF CONTRACT DOCUMENTS

No oral representations or interpretations will be made to any bidder as to the meaning of the contract documents. Any ambiguities, inconsistencies in the plans and specifications or other contract documents, or problems which are visible by an inspection of the site or review of the contract documents shall be resolved prior to bidding. Request for an interpretation shall be made in writing and delivered to County at least 10 days before the time announced for opening the proposals. Interpretations by County will be in the form of an addendum to the contract documents and, when issued, will be sent as promptly as is practical to all parties to whom the bid documents have been issued. All such addenda shall become part of the contract. County reserves the right to amend any contract language which it determines is ambiguous prior to award of the bid.

7. ADDENDA

Each bid shall include specific acknowledgment, in the space provided, of receipt of all addenda issued during the bidding period. Failure to so acknowledge will result in the bid being rejected as not responsive. The Contractor is responsible for verifying that all addenda have been received and for obtaining all addenda prior to submitting bids for the work.

Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

Addenda may also be issued to modify the bidding documents as deemed advisable by County.

Addenda will be mailed or delivered to all parties recorded as having received the bidding documents. No addenda will be issued later than four days prior to the date for receipt of bids except an addendum, if necessary, postponing the date for receipt of bids or withdrawing the request for bids.

8. BIDS

Bids shall be made on the blank forms prepared by County and included herein. Bidders may extract these pages from the book of specifications or submit the entire book. All bids shall give prices, both in writing and in figures, and shall be signed by the bidder or bidder's authorized representative with bidder's address and shall provide all other information requested on the bid form. If the bid is made by an individual, his or her name, signature and post office address must be shown; if made by a firm or partnership, the name and post office address of the firm or partnership must be shown; if made by a corporation, the bid shall show the name of the state under the laws of which the corporation is chartered, the name and post office address of the corporation, and the title of the person who signs on behalf of the corporation.

9. SUBMISSION OF BIDS

Bids shall be submitted at the time and place indicated in the Invitation for Bid and shall be included in a sealed envelope addressed to the Nevada County Purchasing Division. If mailed, the bids shall be addressed to:

Submit Bids to: US Mail, Fed Ex, UPS, etc. to:

Nevada County Purchasing Division Eric Rood Administrative Center 950 Maidu Avenue Nevada City, CA 95959 **Hand Deliver to:**

Nevada County Due to State mandated social distancing policy, Submittals are to be received & deposited at the designated table located in the Lobby of the Eric Rood Administrative Center.

Eric Rood Administrative Center, 950 Maidu Avenue Nevada City, CA 95959

The bid shall be identified on the outside with the bidder's name, license number and address and with the **Project Title** "Nevada County Dispatch Remodel"

Each bid shall be accompanied by the bid security if bid over \$25,000 and other required documents.

or

If the bid is sent by mail, the sealed envelope shall be enclosed in a separate mailing envelope with the notation "BID ENCLOSED" with the **Project Title "Nevada County Dispatch Remodel"** on the face thereof.

Bids shall be deposited at the designated location prior to the time and date for receipt of bids indicated in the Invitation for Bid, or the modified time and date indicated by addendum. Bids received after the time and date for receipt of bids will be returned unopened. Bidder shall assume full responsibility for timely delivery at the location designated for receipt of bids.

Oral, telephone, or telegraph bids are invalid and will not receive consideration. No bidder may submit more than one bid. Multiple bids under different names will not be accepted from one firm or association.

10. PRE-BID CONFERENCE OR WALK-THROUGH

A pre-bid conference or walk-through will be held at 9:00 A.M. Wednesday, Dec 2, 2020, at the project site at 15434 Hwy. 49 Nevada City, CA. 95959.

Due to the State mandated social distancing policy, the County will conduct the Pre-Bid meeting in person however, all participants are required to be wearing face masks and maintain a 6-foot distance between all attendees. In addition, the County will host a virtual Pre-Bid meeting for those unable to attend in person. A link to the virtual meeting is provided below:

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Phone Conference ID: 578 906 240#

The representatives of County, any consultants and/or Project Engineer will be present to answer questions. Any questions which, in the opinion of County, cannot be answered by direct reference to the bidding documents will be answered by formal written addenda as outlined above.

The pre-bid conference or walk-through may include a tour of the site of the work conducted by representatives of County. All interested parties are invited to attend.

11. BID PRICE

The bid price shall include everything necessary for the completion of construction and fulfillment of the contract including, but not limited to, furnishing all materials, equipment, tools, plant and other facilities and all management, superintendence, labor and services, except as may be provided otherwise in the contract documents.

In the event of a difference between the price quoted in words and a price quoted in figures for the same quotation, the words shall be considered the amount bid. Discrepancies between the indicated sum or total of figures and the correct sum or total will be resolved in favor of the correct sum or total.

12. BASIS OF BIDS

The bidder shall submit both a lump sum price and prices for all unit cost items and alternatives shown on the bid form. Failure to comply may be cause for rejection.

Where specific quantities are given they are approximate only, being given as a basis for the comparison of bids, and the County of Nevada does not, expressly or by implication, warrant that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount of any class or portion of the work or to omit portions of the work as may be deemed necessary or advisable by County. The amount of the bid for comparison purposes will be the total of all items. The total of unit basis items will be determined by extension of the item price bid on the basis of the estimated quantity set forth for the item.

The bidder shall set forth for each item of work, in clearly legible figures, an item price and a total for the item in the respective spaces provided for this purpose. In the case of unit basis items, the amount set forth under the "Total" column shall be the extension of the item price bid on the basis of the estimated quantity for the item.

In case of discrepancy between the item price and the total set forth for the item, the item price shall prevail; however, if the amount set forth as an item price is ambiguous, unintelligible or uncertain for any cause, or is omitted, or in the case of unit basis items is the same amount as the entry in the "Total" column, then the amount set forth in the "Total" column for the item shall prevail in accordance with the following:

- a. As to unit basis items, the amount set forth in the "Total" column shall be divided by the estimated quantity for the item and the price thus obtained shall be the item price.
- b. As to lump sum items, the amount set forth in the "Total" column shall be the item price.

In accordance with the provision of Section 6707 of the State Labor Code, each bidder shall list, in any bid item calling for trenching of 5 feet or more in depth, the amount contained in the proposal for adequate trench and excavation sheeting, shoring, and bracing or equivalent method for the protection of life and limb which shall conform to applicable Safety Orders.

13. TAXES

Bid prices shall include allowance for all federal, state and local taxes.

14. CONTRACT TIME

The date by which the work is to be completed (the contract time) is set forth in the contract documents.

15. SUBSTITUTE MATERIAL AND EQUIPMENT

The contract, if awarded, will be on the basis of material and equipment described in the drawings or specified in the specifications without consideration of possible substitute or "co-equal" items. Whenever it is indicated in the drawings or specified in the specifications that a substitute or "co-equal" item of material or equipment may be furnished or used by Contractor if acceptable to County, application for such acceptance will not be considered by County until after the effective date of the contract unless an addendum is issued to all bidders authorizing the use of a specified substitute. The procedure for submittal of any such application by Contractor and consideration by County is set forth in the contract documents.

16. <u>LIST OF SUBCONTRACTORS</u>

Each bid shall have listed on the form provided herewith the name and address of each subcontractor to whom the bidder proposes to sublet portions of the work in excess of one-half of one percent of the total amount of the bid or, in the case of bids for construction of streets or highways, including bridges, in excess of one-half of one percent of the Contractor's total bid or \$10,000, whichever is greater, per Public Contracts Code Section 4104. For the purpose of this paragraph, a subcontractor is defined as one who contracts with the Contractor to furnish materials and labor, or labor only for the performance of work at the site of the work.

County has the right to review the suitability and qualifications of any subcontractor or supplier proposed by the Contractor. As part of this review County may request an experience statement with pertinent information as to similar projects and other evidence of qualification for each such subcontractor, person and organization. If County, after due investigation, has reasonable objection to any proposed subcontractor, County may, before giving the notice of award, request the apparent successful bidder to submit an acceptable substitute without an increase in bid price. If the apparent successful bidder does not make such substitution, the contract shall not be awarded to such bidder, but Contractor's failure to make such substitution will not constitute grounds for sacrificing the bid security. Any subcontractor, other person or organization so listed and to whom County does not make written objection prior to the giving of the notice of award will be deemed acceptable to County subject to revocation of such acceptance after the effective date of the agreement as provided in the contract documents.

No Contractor shall be required to employ any subcontractor, other person or organization against whom Contractor has reasonable objection.

The Contractor may not change any subcontractor listed on its bid without written approval from County after a determination that the requirements of Public Contracts Code Section 4107 have been met.

17. BID GUARANTY (BID BOND)

Bid Guaranty (Bid Bond) is required on all bids over \$25,000. The bid shall be accompanied by a bid guaranty bond (bid bond) duly completed on the form provided herewith or a form which is substantially similar, by a guaranty company authorized to carry on business in the State of California, for payment to County in the sum of at least 10 percent of the total amount of the bid, or alternatively by a certified or cashier's check, payable to County in the sum of at least 10 percent of the total amount of the bid. A bid bond form which provides further payment of attorney's fees or which contains a termination date will not be considered to be "substantially similar". The amount payable to County under the guaranty bond, or the certified or cashier's check and the amount thereof, as the case may be, shall be forfeited to County as liquidated damages in case of a failure or neglect of the bidder to furnish, execute and deliver to County the required performance and payment bonds, evidence of insurance, and to enter into, execute and deliver to County the contract on the form provided herewith, within 5 days after being notified in writing by County that the award has been made and the agreement is ready for execution.

All bonds shall have a power of attorney authorizing the signature of the person authorized to sign on behalf of the Surety attached to the bond. The power of attorney signature and the principal's signature shall each (both) be notarized.

The bid bond shall name County as beneficiary and shall specify that the bond is valid for the bid opening of this project as scheduled in the Invitation for Bid.

18. RETURN OF BID GUARANTEES

Within 10 days after the bids are awarded, County will return the bid guarantees (other than bid bonds) accompanying the bids for bids not considered in making the award. All other bid guaranties will be held until the contract has been fully executed, after which they will be returned to the respective bidders whose bids they accompany.

19. MODIFICATION OR WITHDRAWAL OF BIDS

Bids submitted early may be modified or withdrawn by notice to the party receiving bids at the place and prior to the time designated for receipt of bids. Such notice shall be in writing over the signature of the bidder or be by telegram; if by telegram, written confirmation over the signature of bidder must have been mailed and postmarked on or before the date and time set for receipt of bids; it shall be so worded as not to reveal the amount of original bid. Bids may also be modified or withdrawn in person by the bidder or an authorized representative provided bidder can prove bidder's identity and authority. Withdrawn bids may be resubmitted up to the time designated for the receipt of bids provided that they are then fully in conformance with these instructions to bidders.

If, within 24 hours after bids are opened, any bidder files a duly signed written notice with County and promptly thereafter demonstrates to the reasonable satisfaction of County that there was a material and

substantial mistake in the preparation of the bid, that bidder may withdraw his or her bid and the bid security will be returned. Thereafter, that bidder will be disqualified from further bidding on the work.

20. OPENING OF BIDS

Bids will be opened publicly and read aloud. An abstract of the amounts of the base bids and major alternates (if any) will be made available after the opening of bids.

21. BIDS TO REMAIN OPEN

All bids shall remain open and subject to acceptance for a period of **60** days from the date of opening, but County may, in County's discretion, release any bid and return the bid security prior to that date.

22. POSTPONEMENT OF OPENING

County reserves the right to postpone the date and time for opening of bids at any time prior to the date and time announced in the advertisement.

23. AWARD OF CONTRACT

The award of the contract, if awarded, will be made to the lowest responsive, responsible bidder whose bid complies with all the requirements stated herein. The lowest bidder will be the bidder whose total bid price for all phases of work is lowest. The County will determine after receipt of bids which phase or phases will be included in the contract based on the bid amounts for each respective phase as submitted by the lowest bidder. Within 60 days after the time of opening the bids, County will act either to accept a proposal or to reject all proposals. The acceptance of a proposal will be evidenced by a notice of award of contract in writing, delivered in person or by mail to the bidder whose proposal is accepted. No other act of County shall constitute acceptance of a bid. The award of contract shall obligate the bidder whose bid is accepted to furnish a performance bond, payment bond and evidences of insurance (certificates of insurance and endorsements specified in the contract) and execute the agreement set forth in the contract documents.

County reserves the right to reject any and all bids and to waive any and all formalities, and the right to disregard all nonconforming, non-responsive, or conditional bids. County reserves the right to reject the bid of any bidder if County believes that it would not be in the best interest of the project to make an award to that bidder, whether because the bid is not responsive or the bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by County. County reserves the right to reject any bids which omit a bid on any one or more items on which bids are required; any bids which omit unit prices if unit prices are required; any bids in which unit prices are unbalanced in the opinion of County; any bid accompanied by insufficient or irregular bid security; and any bids from bidders who have previously failed to perform properly or to complete on time contracts of any nature.

It is County's intent to accept alternates (if any are accepted) in the order in which they are listed in the bid form, but County may accept them in any order or combination.

County may consider the qualifications and experience of subcontractors and other persons and organizations (including those who are to furnish the principal items of material or equipment) proposed for those portions of the work as to which the identity of subcontractors and other persons and organizations must be submitted as provided herein. Operating costs, maintenance considerations, performance data and guarantees of materials and equipment may also be considered by County.

If there is reason to believe that collusion exists among the bidders, none of the bids of the participants in such collusion will be considered, and County may likewise elect to reject all bids received.

County may conduct such investigations as County deems necessary to assist in the evaluation of any bid and to establish the responsibility, qualifications and financial ability of the bidders, proposed subcontractors and other persons and organizations to do the work in accordance with the contract documents to County's satisfaction within the prescribed time. County reserves the right to reject the bid of any bidder who does not pass any such evaluation to County's satisfaction.

If the contract is to be awarded, it will be awarded to the lowest bidder whose evaluation by County indicates to County that the award will be in the best interests of the project.

24. SIGNING OF AGREEMENT

When County gives a Notice of Award to the successful bidder, it will be accompanied by unsigned counterparts of the agreement and all other contract documents.

Three (3) copies of the contract documents will be prepared by County. All copies will be submitted to Contractor, and Contractor shall execute the contract, insert executed copies of the required bonds and power of attorney, and submit all copies to County within five (5) days. The date of execution of the contract shall be left blank for filling in by County.

25. NOTICE TO PROCEED

County shall give the successful bidder written notice to proceed with the work within **7** days of the execution of the contract. Notwithstanding any other provision of the contract, County shall not be obligated to accept or to pay for any work furnished by the Contractor prior to delivery of notice to proceed whether or not County has knowledge of the furnishing of such work.

26. PERFORMANCE AND OTHER BONDS

The contract documents set forth County's requirements as to performance and other bonds. When the successful bidder delivers the executed contract to County, it shall be accompanied by the required contract security. The bonds shall be provided on County's forms or on forms which are substantially similar. Notwithstanding any language contained in the bonds, County shall not be liable for attorney's fees either for the enforcement of the bond or for any other action under this Contract. Bonds shall not contain any date of termination.

27. CONTRACTUAL RESTRICTIONS

No official of County who is authorized in such capacity and on behalf of County to negotiate, make, accept or approve, or to take part in negotiating, making, accepting, or approving any architectural, engineering, inspecting, construction or material supply contract or any subcontract in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part thereof. No officer, employee, architect, attorney, engineer, or inspector of or for County who is authorized in such capacity and on behalf of County who is in any legislative, executive, supervisory, or other similar function in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part thereof, any material supply contract, subcontract, insurance contract, or any other contract pertaining to the project.

28. POSTING SECURITY IN LIEU OF RETENTION

The Contractor may elect to receive 100% of payments due under this contract from time to time, without retention of any portion of the payment by the public agency, by depositing securities of equivalent value with County in accordance with the provisions of Section 22300 of the California Public Contract Code; except that no such substitution shall be allowed where federal money is funding the project and federal regulations or policies would prohibit such substitution of securities for the retention. Securities eligible for investment shall include those listed in Section 16430 of the California Government Code, or bank or savings and loan certificates of deposits. Such securities, if deposited by the bidder, shall be valued by County whose decision on the valuation of the securities shall be final. The bidder shall be the beneficial owner of any securities substituted for money withheld and shall receive any interest thereon.

29. LIQUIDATED DAMAGES

The County is authorized by Government Code Section 53069.85 to assess liquidated damages for delay. County refers bidders to the Contract for review of the liquidated damages provision to be included in this Contract.

CHECKLIST OF DOCUMENTS ENCLOSED BY BIDDER

Bidder shall acknowledge that he or she has enclosed all required Bidding Documents listed herein by signing his or her initials in "Bidder" column, after each item.

		SIGNATURES	
	DOCUMENT	BIDDER	COUNTY REP.
1.	BID FORM (signed)		
2.	ACKNOWLEDGMENT OF ADDENDA		
3.	BID SECURITY: Bid Bond for bids over \$25,000 (must be signed by corporate surety); or Cashier's Check; or Certified Check; or Cash		
4.	EXPERIENCE STATEMENT FORM		
5.	SUBCONTRACTOR LISTING (signed)		
6.	BIDDER'S REPRESENTATIONS: (BIDDER'S QUALIFICATIONS, NONCOLLUSION DECLARATION)		

BID FORM

(Nevada County Standard Form Bid Document)

BID TO THE COUNTY OF NEVADA FOR: Nevada County Dispatch Remodel Name of Bidder The work to be done and referred to herein is in Nevada County, State of California, and shall be constructed in accordance with the Plans, Specifications (including the payment of not less than the wages rates set forth therein) and the Contract annexed hereto. The work to be done is shown upon project documents entitled: Nevada County Dispatch Remodel. The undersigned, as bidder, declares that the only persons or parties interested in this bid as principals are those named herein; that this bid is made without collusion with any other person, firm, or corporation. and in submitting this bid, the undersigned bidder agrees that he or she has carefully examined the location of the proposed work, the annexed proposed form of contract, and the plans therein referred to and all other documents listed or incorporated in the bidding documents and contract documents; and bidder proposes, and agrees if this bid is accepted, that bidder will contract with the County of Nevada in the form of the copy of the contract annexed hereto, to provide all necessary machinery, tools, apparatus, and other means of construction, and to do all the work and furnish all the materials specified in the contract, in the manner and time therein prescribed, and according to the requirements of County as therein set forth, and that bidder will take in full payment therefor the following: Item Unit of No. Item Measure **Total** Nevada County Dispatch Remodel Lump Sum 1. Total of Bid (in figures): Total of Bid (in words): The undersigned bidder agrees to furnish the required bonds or other security and to enter into a contract within the time specified in the Instructions to Bidders, and further agrees to complete all work covered by the bid, in accordance with all requirements of the contract. Receipt of copies of the following addenda is hereby acknowledged. Addendum No. Bidder's Signature Date Acknowledged

All addenda received have been considered in preparation of this bid.

Enclosed herewith are the Bid Form, Bid Bond or other security, Experience Statement, Subcontractor Listing and Bidder's Representations form.

In submitting this bid it is understood that the right is reserved by County to reject any and all bids, and it is understood that this bid may not be withdrawn during the period set forth in the Instructions to Bidders.

Envelopes containing bids must be marked as required by the Instructions to Bidders.

County reserves the right to reject any and all bids and to waive any irregularities in bids.

The amount of the bid for comparison purposes will be the total of all items. The total of unit basis items will be determined by extension of the item price bid on the basis of the estimated quantity set forth for the item.

Prices bid shall include overhead, profit and all applicable taxes.

By submission of this bid, each bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, that this bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid with any other bidder or with any competitor.

A bid bond for bids over \$25,000 will accompany this bid in a sum of not less than ten percent (10%) of the total amount of the bid and shall be on a form approved by County or a form which is substantially similar, which is attached hereto.

If this bid shall be accepted and the undersigned shall fail to contract as aforesaid, and to give the performance bond and labor and material bond as required in the contract with a surety satisfactory to County within the number of days set forth in the Instructions to Bidders after receipt of notice that the contract has been awarded to the undersigned, County may, at its option, determine that the bidder has abandoned the contract and thereupon the award of the contract shall be null and void and the bidder and surety shall forfeit the security accompanying this bid to the County of Nevada.

Accompanying this bid is: Ci	rcie one: Bidder's Bond Cashier's Check C	Sertified Check – Cash
for \$, an amount equal to ten percent (10%)	of the total bid.
The names of individuals will corporation in the foregoing by	no are principals in any partnership, joint ven id are as follows:	ture, business association o
	an act providing for the registration of contracto	rs, License No
DATED:		
	Authorized Signature of Bide	der
PRINTED NAME OF AUTHORIZ	ZED REPRESENTATIVE:	
BUSINESS ADDRESS:		
PLACE OF RESIDENCE:		
TELEPHONE NUMBER:		K
EMAIL ADDRESS:		
CLASSIFICATION OF CONTRA	CTOR'S LICENSE:	
EXPIRATION DATE OF CONTR	ACTOR'S LICENSE:	
DIR#	FEDERAL TAX ID. NO.:	

<u>NOTE</u>: If bidder is a corporation, the legal name of the corporation shall be set forth above together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation; if bidder is a co-partnership, the true name of the firm shall be set forth above together with the signature of the partner or partners authorized to sign contracts on behalf of the co-partnership; and if bidder is an individual, his or her signature shall be placed above. If a bidder is a joint venture, the documents must be signed by an authorized officer of each firm to the joint venture and shall include the California Contractor's License number of each partner to the joint venture. The signature of any attorney-in-fact must be notarized.

BIDDER'S BOND

STATE OF CALIFORNIA

COUNTY OF NEVADA

KNOW ALL PERSONS BY THESE PRESENT,

That we,			as principal,	and			
bound unto the County of Neva principal above named, submitte for the payment of which sum in of Nevada, we bind ourselves, of firmly by these presents. In \$	ed by said princi lawful money of our heirs, execut no case shall t	pal to the the Unite tors, adn	e County of New ed States, well a ninistrators, and	the total rada for the and truly to I success	ne work des o be made, ors, jointly	the bid of scribed belong to the Couand severa	the ow, inty ally,
The condition of this obligation it to the County of Nevada, as aformation bids are to be opened	resaid, for certa	in consti		ally descri		ows, for wh	
NOW, THEREFORE, if manner required by the contract signature, enters into a written to bonds with the County of Never payment for labor and materials shall be and remain in full force. Notice to Surety shall be	et documents, and Contract, in the lada, one to gua, as required by and effect.	fter the prescribe arantee flaw, ther	orescribed form ed form, in acco aithful perform	s are pre ordance w ance and	esented to I with the bid, I the other	nim or her and files t to guaran	for two tee
IN WITNESS WHEREO		ereunto	set our hands	and seal	s on this ₋	day	of
	Seal				Seal		
	Seal				Seal		
 Principal	Seal	Surety			Seal		
		•					
NOTE: Signature of Surety shamust be attached.	all be notarized.	Power	of attorney for	surety wi	th corporate	e seal affix	æd
APPROVED AS TO FORM BY COUNTY COUNSEL							

EXPERIENCE STATEMENT

The following outline is a record of the bidder's or subcontractor's recent experience in construction of a type similar in magnitude and character to that contemplated under this Contract. Additional numbered pages shall be attached to this page as required. Each page shall be headed "Experience Statement" and signed.

FAILURE TO COMPLETE WILL RESULT IN BID DISQUALIFICATION

1.) PROJECT NAME: DATE: INSPECTOR NAME PHONE # CONTRACT AMOUNT: WORK PERFORMED:	
2.) PROJECT NAME: DATE: INSPECTOR NAME PHONE # CONTRACT AMOUNT: WORK PERFORMED:	
3.) PROJECT NAME: DATE: INSPECTOR NAME PHONE # CONTRACT AMOUNT: WORK PERFORMED:	
4.) PROJECT NAME: DATE: INSPECTOR NAME PHONE # CONTRACT AMOUNT: WORK PERFORMED:	Signature of Contractor

SUBCONTRACTOR LIST

Listed hereunder is the name, Contractor's license number, the address of place of business, and the category of the work on the Contract for each subcontractor who will perform work or labor or render service to the undersigned bidder in or about the construction of the work hereinabove described, in excess of one-half of one percent (0.5%) of the total bid, if the Contract for the said work is awarded to the undersigned.

(Attach additional sheet, if necessary, and note attachment on this page.)

Name of Subcontractor	Contractor's License #	DIR Registration Number	Location of Business	Category of Work To Be Performed	% of Total Work
*					
e0 e0					
					>

Signature of Contractor/Bidder:	
0	

(THE BIDDER'S EXECUTION ON THE SIGNATURE PORTION OF THIS BID FORM SHALL ALSO CONSTITUTE AN ENDORSEMENT AND EXECUTION OF THOSE CERTIFICATIONS WHICH ARE A PART OF THIS BID)

BIDDER'S REPRESENTATIONS

I, the undersigned, declare as follows:

1. <u>BIDDER'S QUALIFICATIONS</u>: That neither I nor a company of which I am more than 50% owner have been disqualified from bidding, removed from a public works construction project or otherwise been prevented from bidding because of a violation of law or a safety regulation.

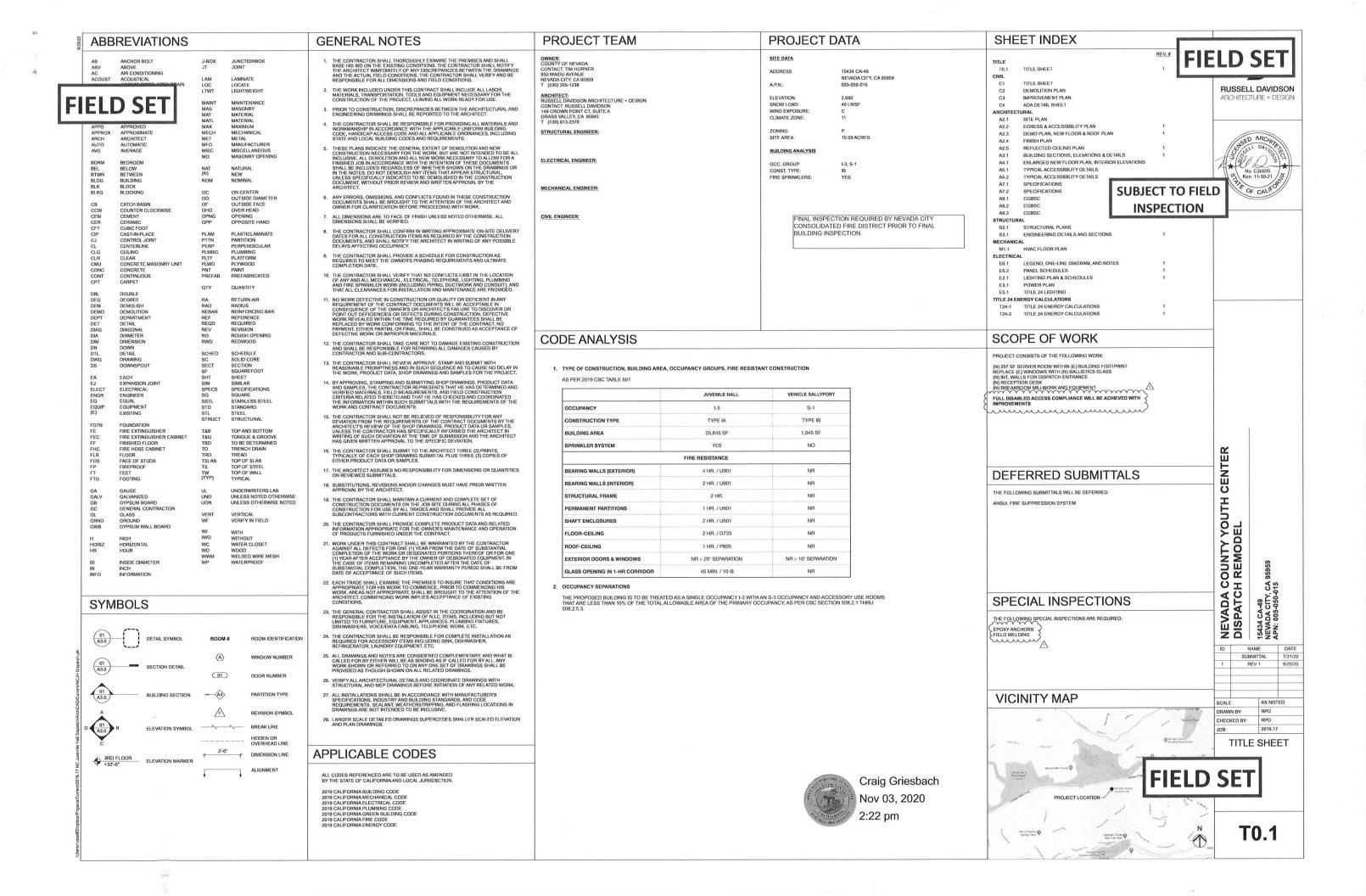
Further, I declare under penalty of perjury that neither I nor a company of which I am more than a 50% owner have had more than one final, unappealable finding of contempt of court by a Federal court within the immediately preceding two year period because of failure to comply with an order of the Federal court (Public Contract Code Section 10232), which orders the Contractor to comply with an order of the National Labor Relations Board.

Further, I declare under penalty of perjury that I have not been convicted by any court of any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of state or federal antitrust law in connection with the bidding upon, award of, or performance of any public works contract.

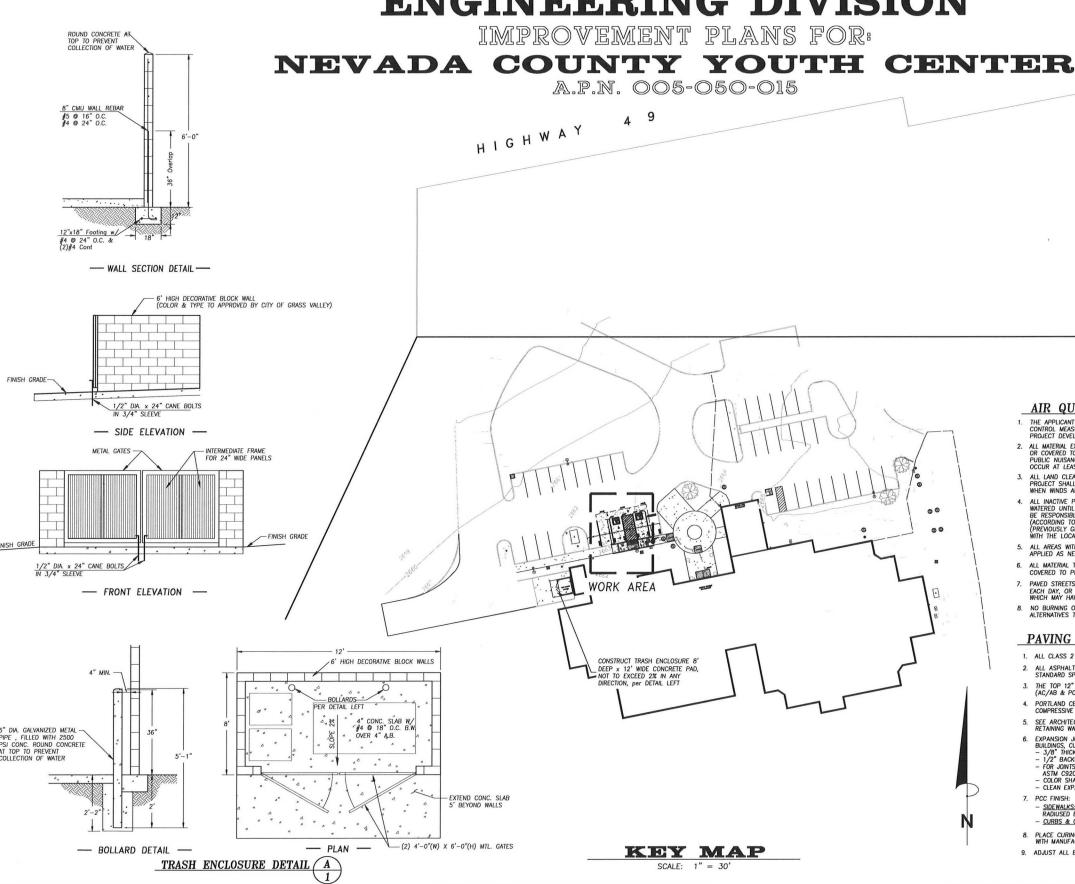
- 2. WORKER'S COMPENSATION CERTIFICATION (LABOR CODE SECTION 1861): That I am aware of the provisions of Section 3700 of the Labor Code of the State of California, which requires every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of this Contract.
- 3. NONCOLLUSION DECLARATION: I, the undersigned, declare that I am of the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true

and correct.	
DATED:	
	BIDDER:



NEVADA COUNTY ENGINEERING DIVISION



DRAWING SHEET INDEX

C1 - TITLE SHEET

C2 - DEMOLITION PLAN

C3 - IMPROVEMENT PLAN

C4 - ADA DETAIL SHEET

PROJECT CONSULTANTS

PROPERTY CONTACT:

TIM HORNER NEVADA COUNTY YOUTH CENTER 950 MAIDU AVENUE NEVADA CITY, CA 95959 (530) 265–1238

ARCHITECT:

RUSSELL DAVIDISON 149 CROWN POINT COURT, SUITE A GRASS VALLEY, CA 95945 (530) 913-2370 e-mail: russ@davidsonarch.com

CIVIL ENGINEER/SURVEYOR:

KEVIN J. NELSON, P.E., P.L.S. NELSON ENGINEERING 14028 CAMAS COURT PENN VALLEY, CA 95946 (530) 432–4818

EARTHWORK QUANTITIES:

NOTE TO CONTRACTOR: THE CALCULATION OF EARTHWORK QUANTITIES, AND THE DETERMINATION OF ANY REQUIRED IMPORT OR EXPORT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE FOLLOWING QUANTITIES CALCULATED BY NELSON ENGINEERING ARE FOR FEE CALCULATION.

EXCAVATION FILL (15% SHRINK) = ____ O ___ CY IMPORT/EXPORT = ___O ___ CY

ANY IMPORT OR EXPORT REQUIREMENTS WILL BE THE RESPONSIBILITY

AIR QUALITY AND DUST CONTROL NOTES

- THE APPLICANT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL ADEQUATE DUST CONTROL MEASURES ARE MIPELEMENTED IN A TIMELY MANNER DURING ALL PHASES OF PROJECT DEVELOPMENT AND CONSTRUCTION.
- ALL MATERIAL EXCAVATED, STOCKPILED, OR GRADED SHALL BE SUFFICIENTLY WATERED, TREATED, OR COVERED TO PREVENT DUST FROM LEAVING THE PROPERTY BOUNDARIES AND CAUSING A PUBLIC NUISANCE OR A VIOLATION OF AN AMBIENT AIR STANDARD. WATERING SHOULD OCCUR AT LEAST TWICE DAILY, WITH COMPLETE SITE COVERAGE.
- ALL LAND CLEARING, GRADING, EARTH MOVING, OR EXCAVATION ACTIVITIES ON THE PROJECT SHALL BE SUSPENDED AS NECESSARY TO PREVENT EXCESSIVE WINDBLOWN DUST WHEN WINDS ARE EXPECTED TO EXCEED 20 MPH.
- ALL INACTIVE PORTIONS OF THE DEVELOPMENT SITE SHALL BE COVERED, SEEDED, OR WATERED UNTIL A SUITABLE COVER IS ESTABLISHED. ALTERNATELY, THE APPLICANT SHALL BE RESPONSIBLE FOR APPLIVING CITY APPROVED NON-TOXIC SOIL STABILIZERS (ACCORDING TO MANUFACTURERS SPECIFICATIONS) TO ALL INACTIVE CONSTRUCTION AREAS (PREVOUSLY GRADED AREAS WHICH REMAIN INACTIVE FOR 96 HOURS) IN ACCORDANCE WITH THE LOCAL GRADING ORDINANCE.
- ALL AREAS WITH VEHICLE TRAFFIC SHALL BE WATERED OR HAVE DUST PALLIATIVE APPLIED AS NECESSARY FOR REGULAR STABILIZATION OF DUST EMISSIONS.
- ALL MATERIAL TRANSPORTED OFFSITE SHALL BE EITHER SUFFICIENTLY WATERED OR SECURELY COVERED TO PREVENT PUBLIC NUISANCE. 7. PAVED STREETS ADJACENT TO THE PROJECT SHALL BE SWEPT OR WASHED AT THE END OF
- EACH DAY, OR AS REQUIRED TO REMOVE EXCESSIVE ACCUMULATIONS OF SILT AND/OR MUD WHICH MAY HAVE RESULTED FROM ACTIVITIES AT THE PROJECT SITE.
- 8. NO BURNING OF WASTE MATERIAL OR VEGETATION SHALL TAKE PLACE ON-SITE
 ALTERNATIVES TO BURNING INCLUDE CHIPPING, MULCHING OR CONVERTING TO

PAVING & CONCRETE NOTES

- 1. ALL CLASS 2 AGGREGATE BASE (AB) SHALL BE COMPACTED TO 95% COMPACTION.
- ALL ASPHALT CONCRETE SHALL BE 3/4" MAXIMUM, MEDIUM TYPE "B" PER SECTION 39 OF CALTRANS STANDARD SPECIFICATIONS.
- THE TOP 12" OF SUBGRADE SHALL BE COMPACTED TO 90% COMPACTION FOR ALL STRUCTURAL SECTIONS (AC/AB & PCC) PER GEOTECHNICAL ENGINEERING REPORT.
- PORTLAND CEMENT CONCRETE (PCC) SHALL BE 3/4" MAXIMUM AGGREGATE AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AT 28 DAYS,
- SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR DESIGN OF ALL BUILDING COMPONENTS AND RETAINING WALLS.

- RETAINING WALLS.

 6. EXPANSION JOINTS PROVIDE AS SHOWN AND WHEREVER PORTLAND CEMENT CONCRETE (PCC) ABUTS BUILDINGS, CURBS, WALLS, OR OTHER STRUCTURES.

 7.3/8" THICK FELT EXPANSION FIBER BOARD FULL DEPTH OF PCC.

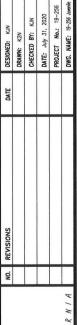
 1/2" BACKER ROD.

 FOR JOINTS 3/4" AND WIDER CONCRETE EXTERIOR PAVEMENT JOINT SEALANT: POLYURETHANE SELF-LEVELING, ASTM C920, CLASS 25, USES T & I, SINGLE IMPLEMENT.

 COLOR SHALL MATCH CONCRETE COLOR.

 CILCAN SHALL MATCH CONCRETE COLOR.

 CILCAN EXPANSION JOINTS AFTER CURING AND FILL WITH SPECIFIED JOINT SEALANT FLUSH WITH ADJACENT PCC.
- 7. PCC FINISH:
- SIDEWALKS: LIGHT BROOM, TEXTURE PERPENDICULAR TO THE DIRECTION OF TRAVEL WITH TROWELED AND RADIUSED EDGE. 1/4" RADIUS.
- CURBS & GUTTERS: MEDIUM BROOM, TEXTURE PARALLEL TO PAVEMENT DIRECTION.
- 8. PLACE CURING COMPOUND ON EXPOSED PCC SURFACES IMMEDIATELY AFTER FINISHING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 9. ADJUST ALL EXISTING GRATES & UTILITY BOXES TO GRADE AS REQUIRED BY PROPOSED IMPROVEMENTS.



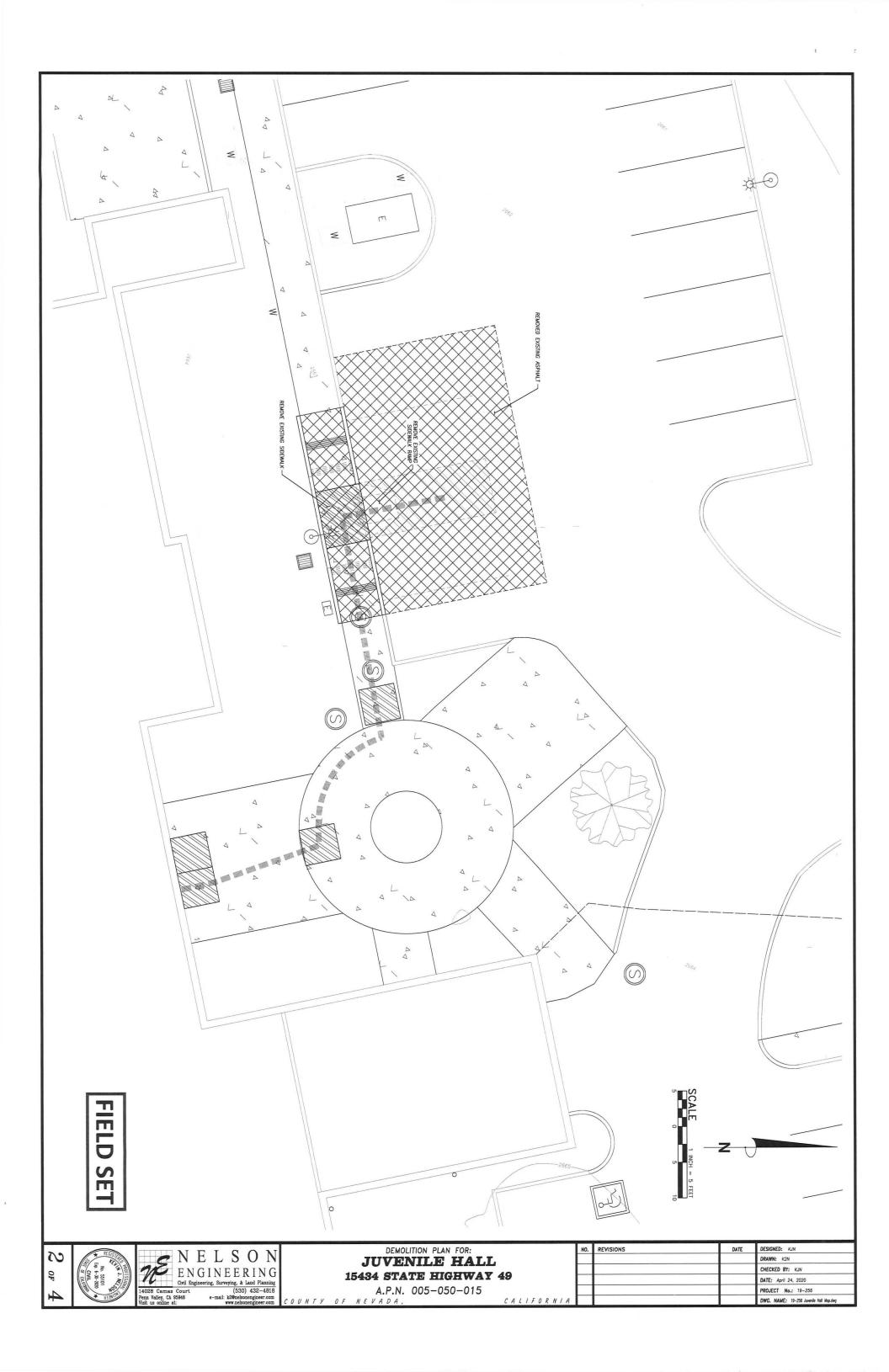
JVENILE HALL STATE HIGHWAY 4.P.N. 005-050-015 JUVENILE : 15434 STATE HIG

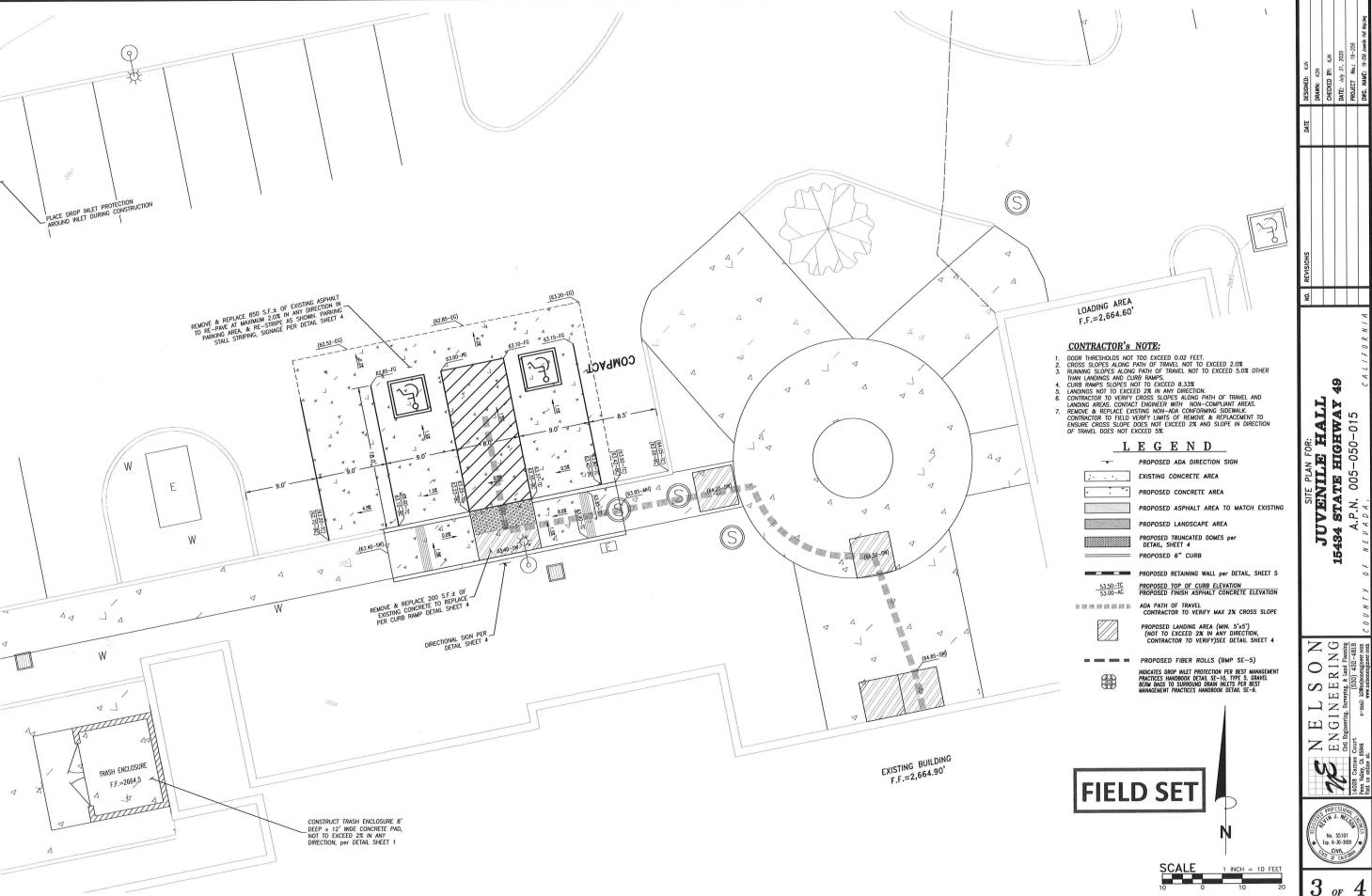
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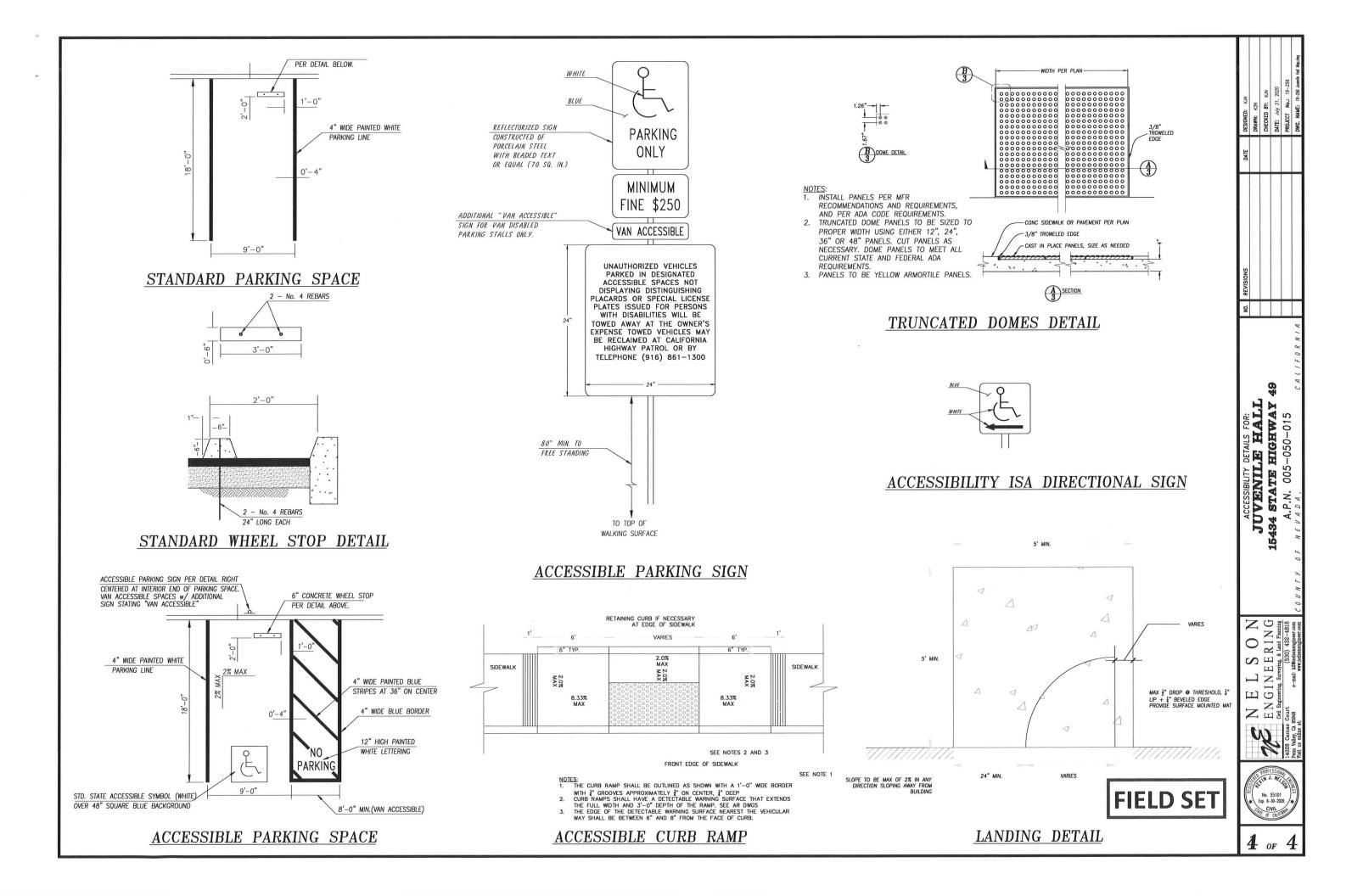


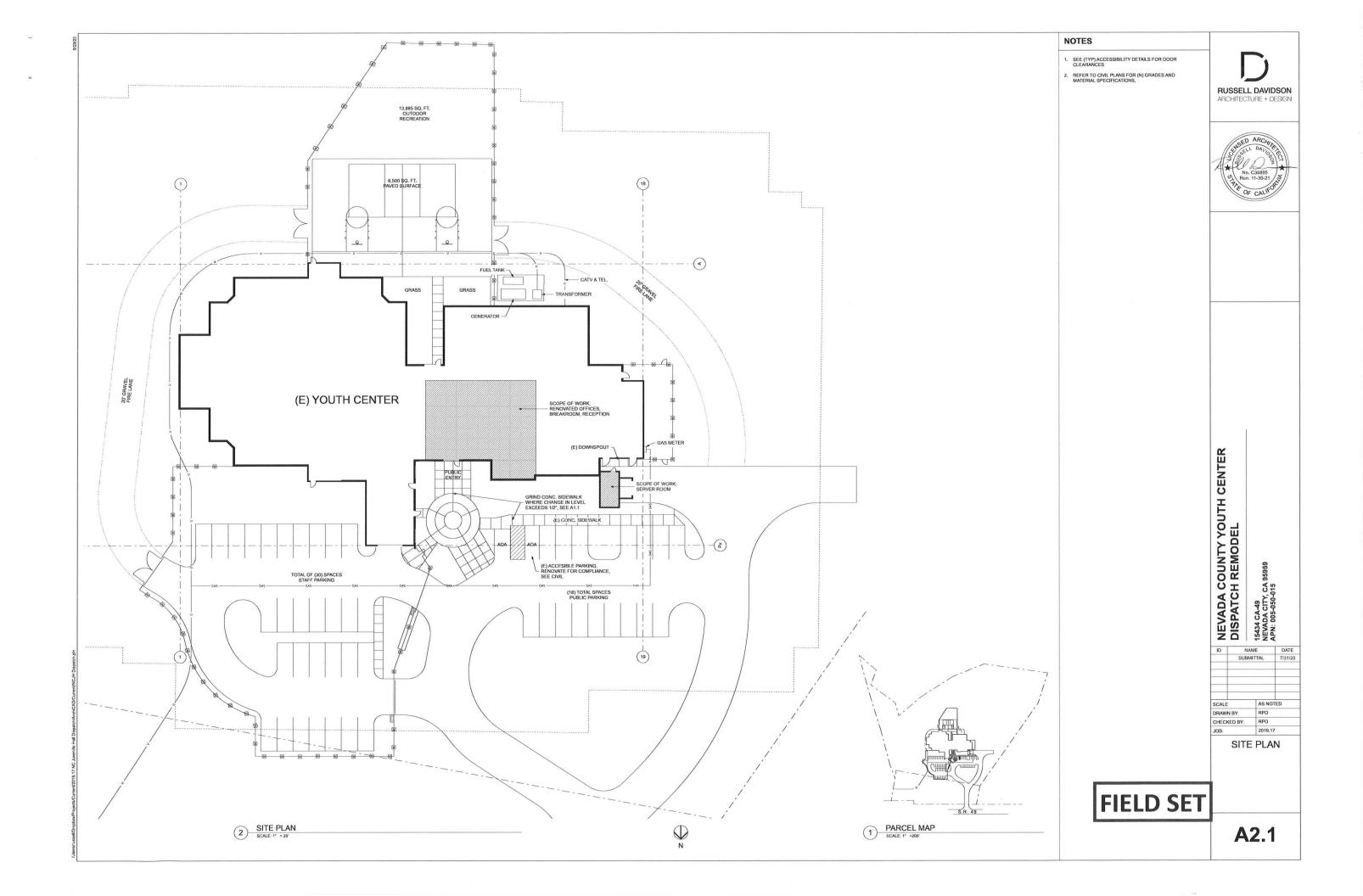
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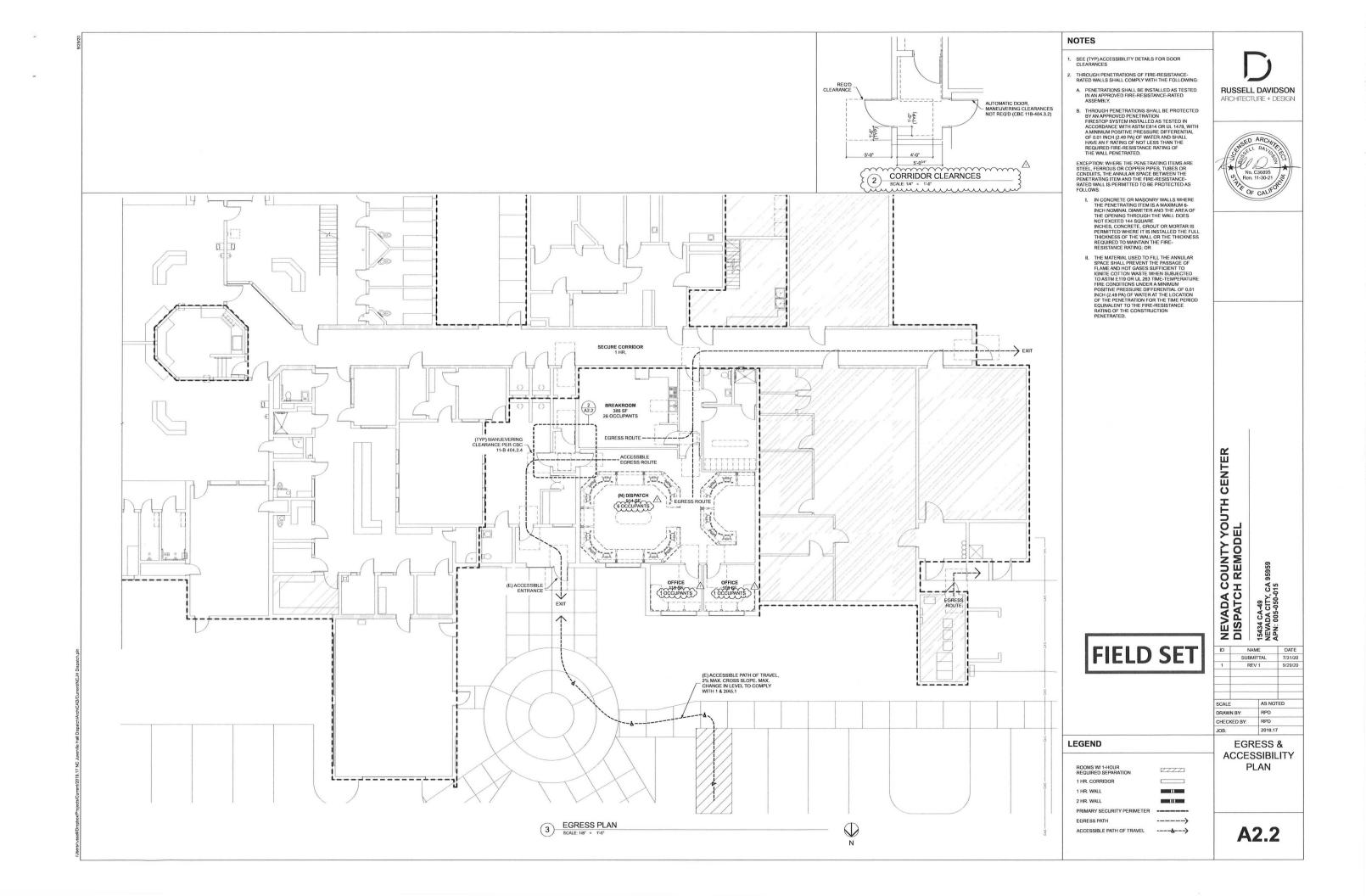


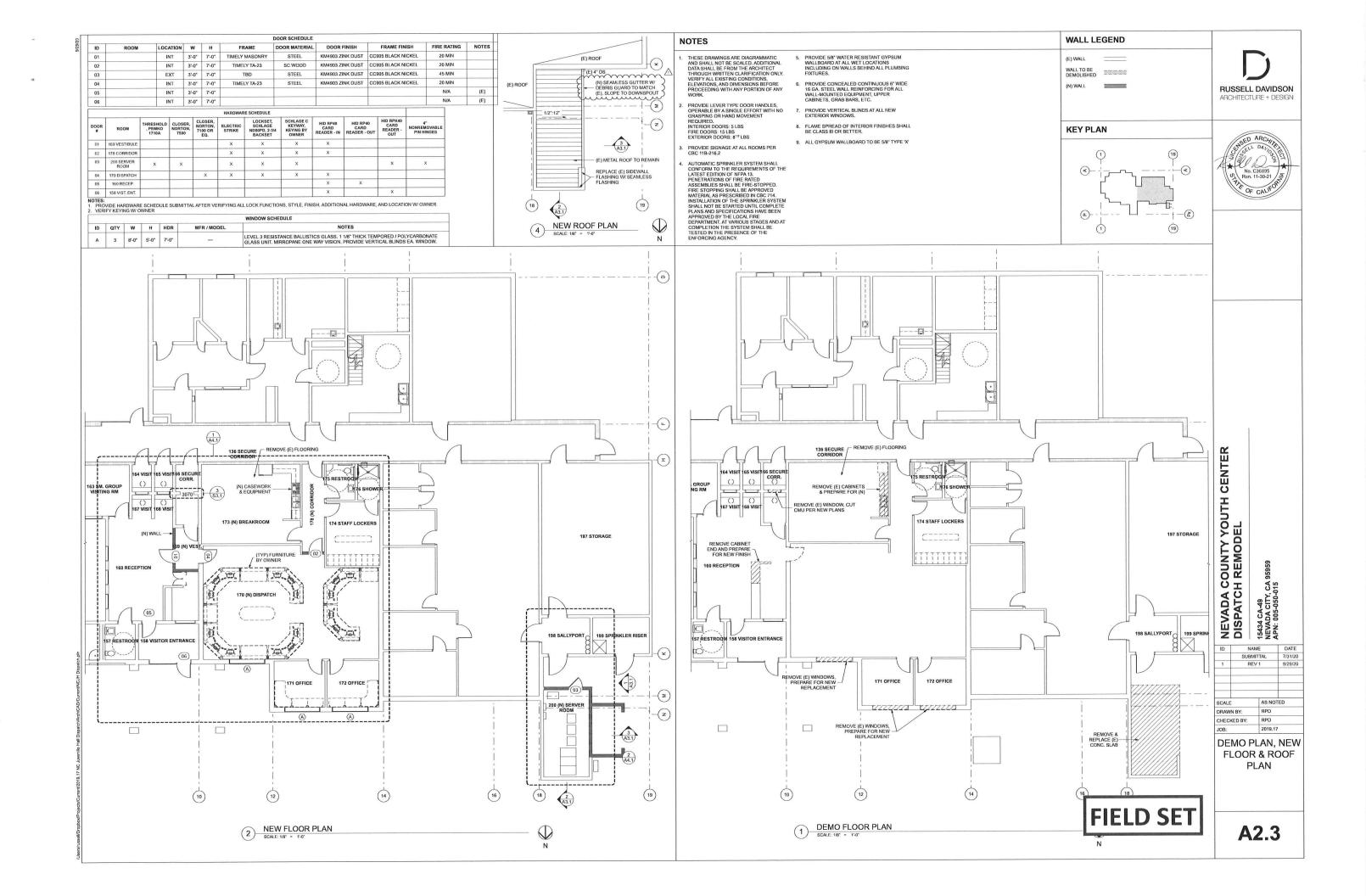


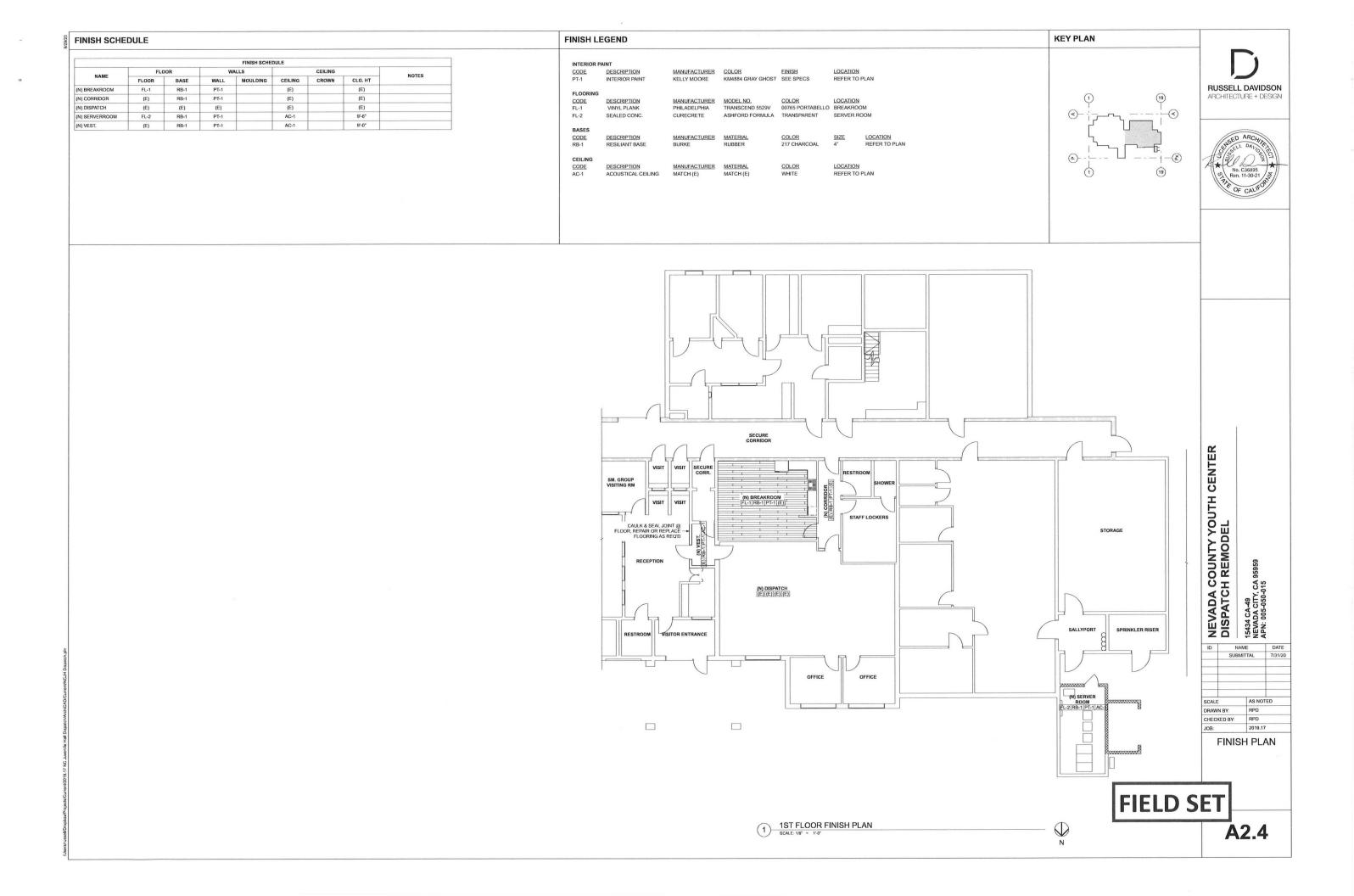


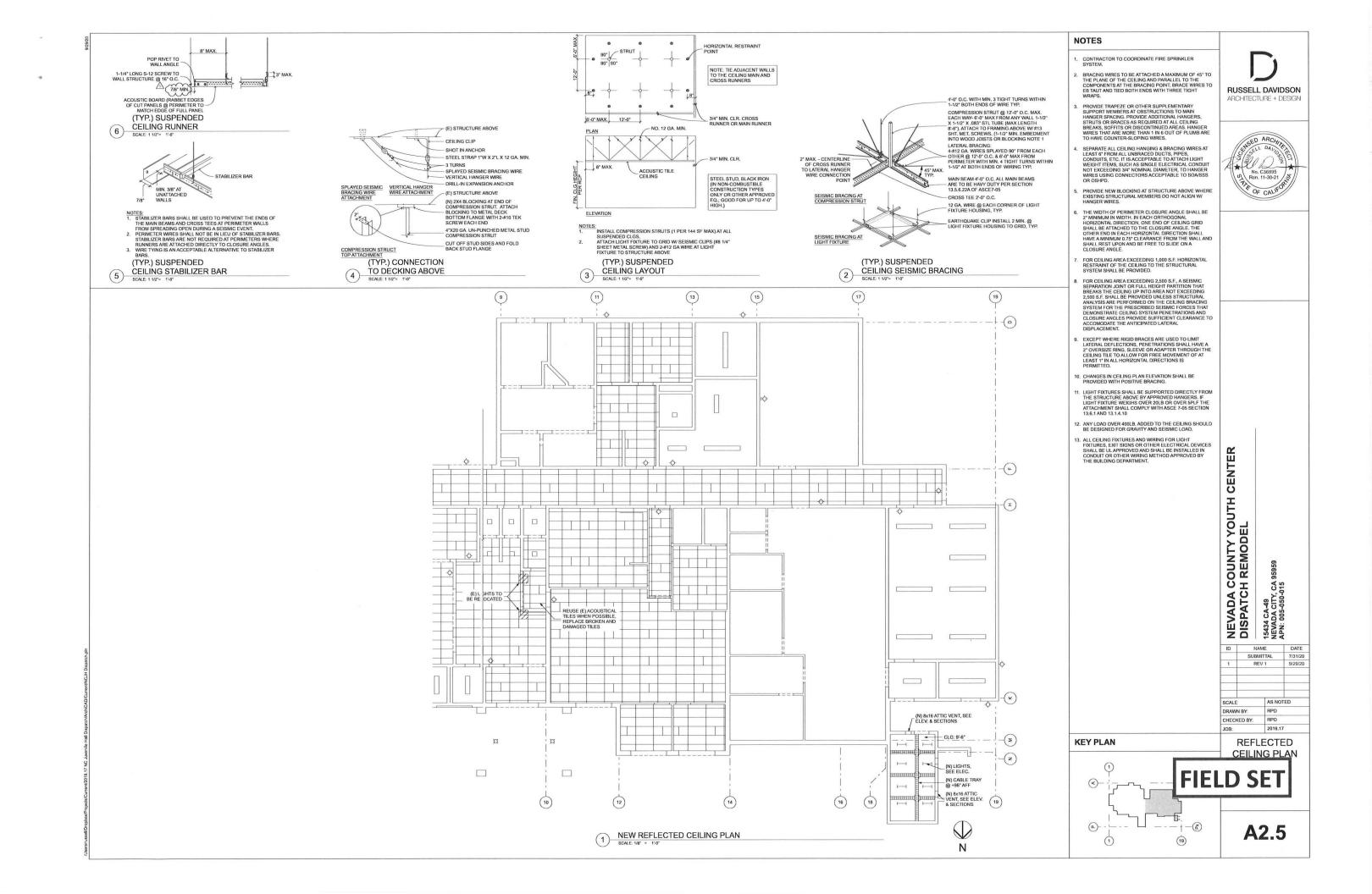


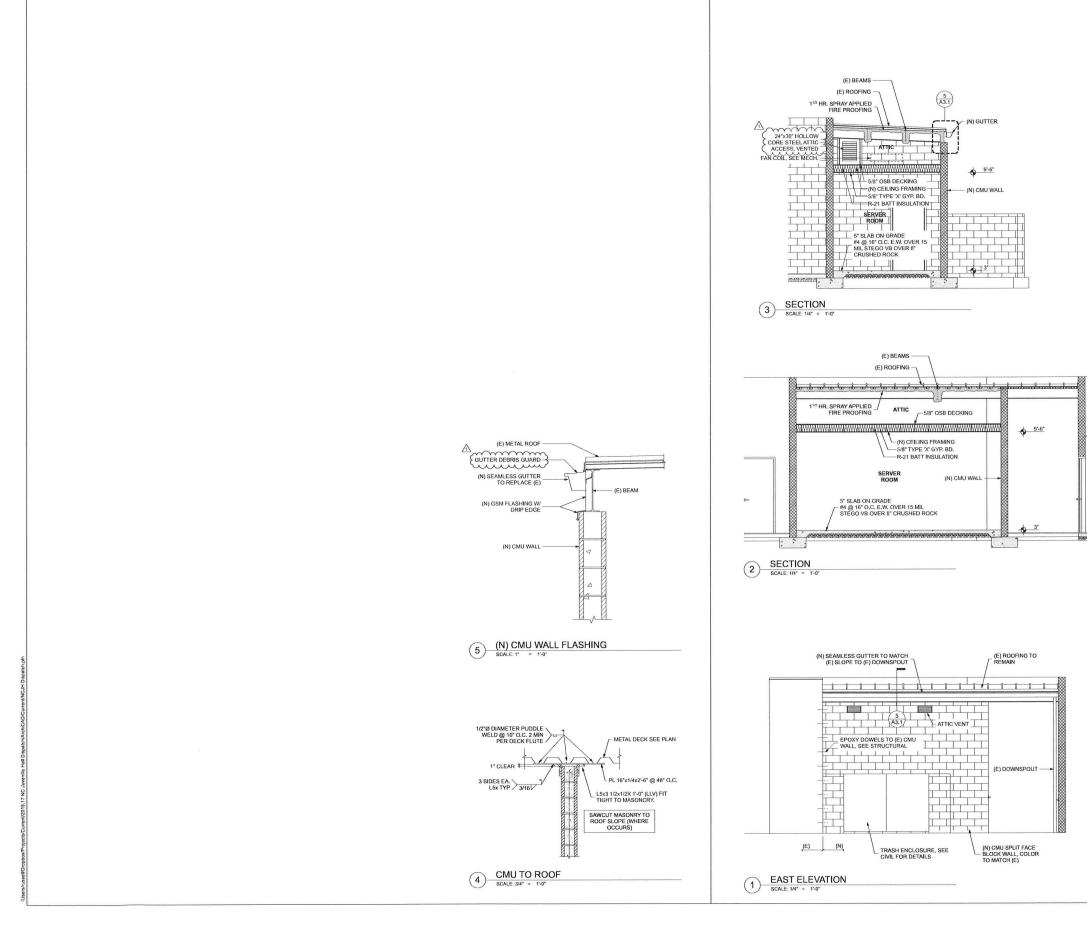












NOTES

- THROUGH PENETRATIONS OF FIRE-RESISTANCE-RATED WALLS SHALL COMPLY WITH THE FOLLOWING:
- PENETRATIONS SHALL BE INSTALLED AS TESTED IN AN APPROVED FIRE-RESISTANCE-RATED ASSEMBLY.
- NATEO ASSEMBLT.

 B. THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM ESTA OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AND SHALL FINE PARF PARTING OF NOT LESS THAN THE REQUIRED THE-RESISTANCE RATING OF THE WALL FENETRATED.

EXCEPTION: WHERE THE PENETRATING ITEMS ARE STEEL, FERROUS OR COPPER PIPES, TUBES OR CONDUITS. THE ANNUAR SPACE BETWEEN THE PENETRATING ITEM AND THE FIRE-RESISTANCE-FATED WALL IS PERMITTED TO BE PROTECTED AS FOLLOWS:

- I. IN CONCRETE OR MASONRY WALLS WHER E THE PENETRATING ITEM IS A MAXIMUM 6-INCH NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH HE WALL DOES NOT EXCEED 144 SQUARE INCHES, CONCRETE, GROUT OR MORTAR IS PERMITTED WHERE IT IS INSTALLED THE FULL THROKESS OF THE WALL OR THE THICKNESS OF THE WALL OR THE THICKNESS OF TO MINITAIN 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 E1190 RU IL
 28 TIME-TEMPERATURE FIRE
 CONDITIONS UNDER A MINIMUM POSITIVE
 PRESSURE DIFFERENTIAL OF 0.01 INCH
 OF THE PENETRATION FOR THE TIME PERIOD
 EQUIVALENT TO THE FIRE-RESISTANCE
 RATING OF THE CONSTRUCTION
 PENETRATED.

FIELD SET



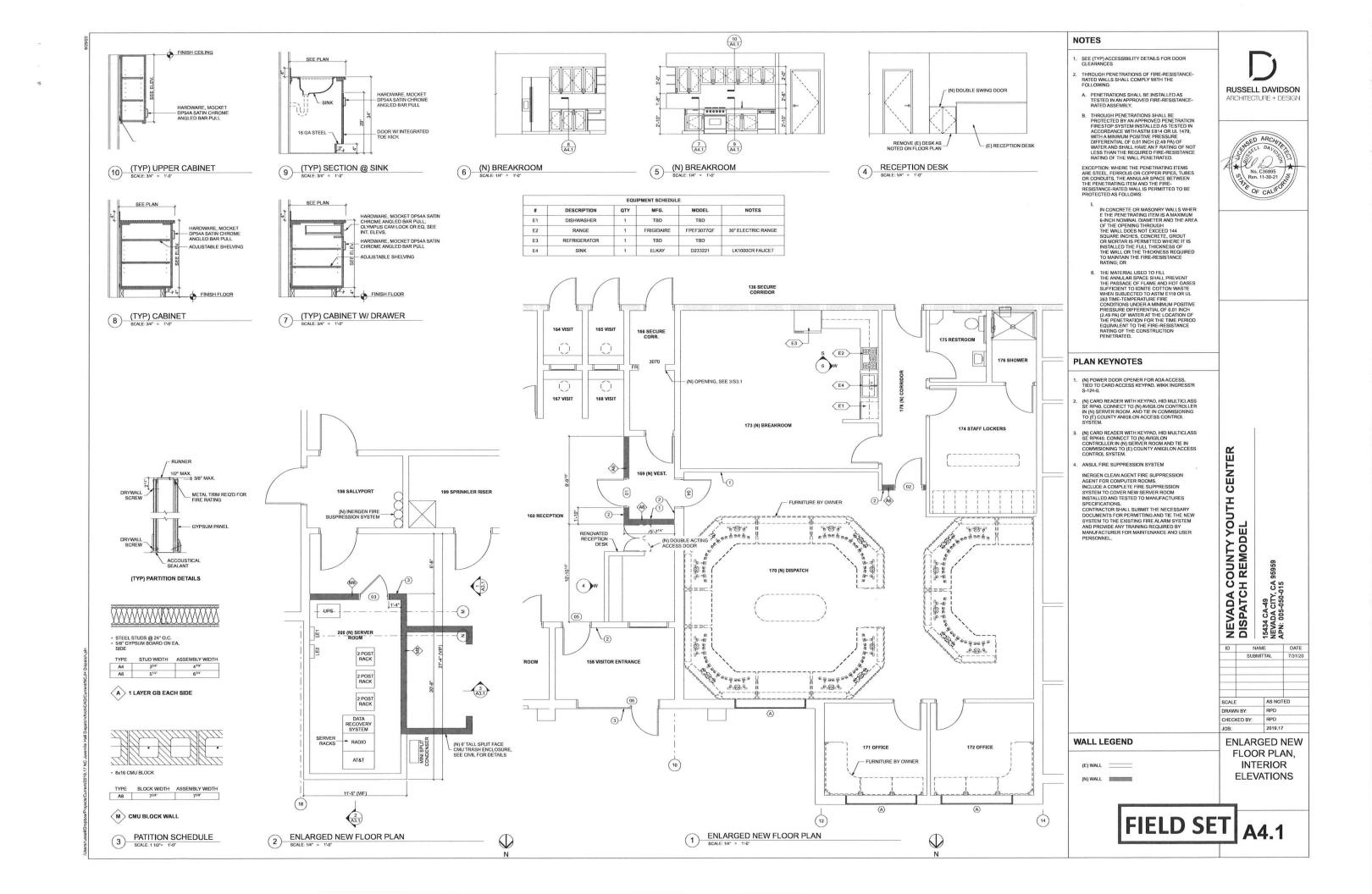


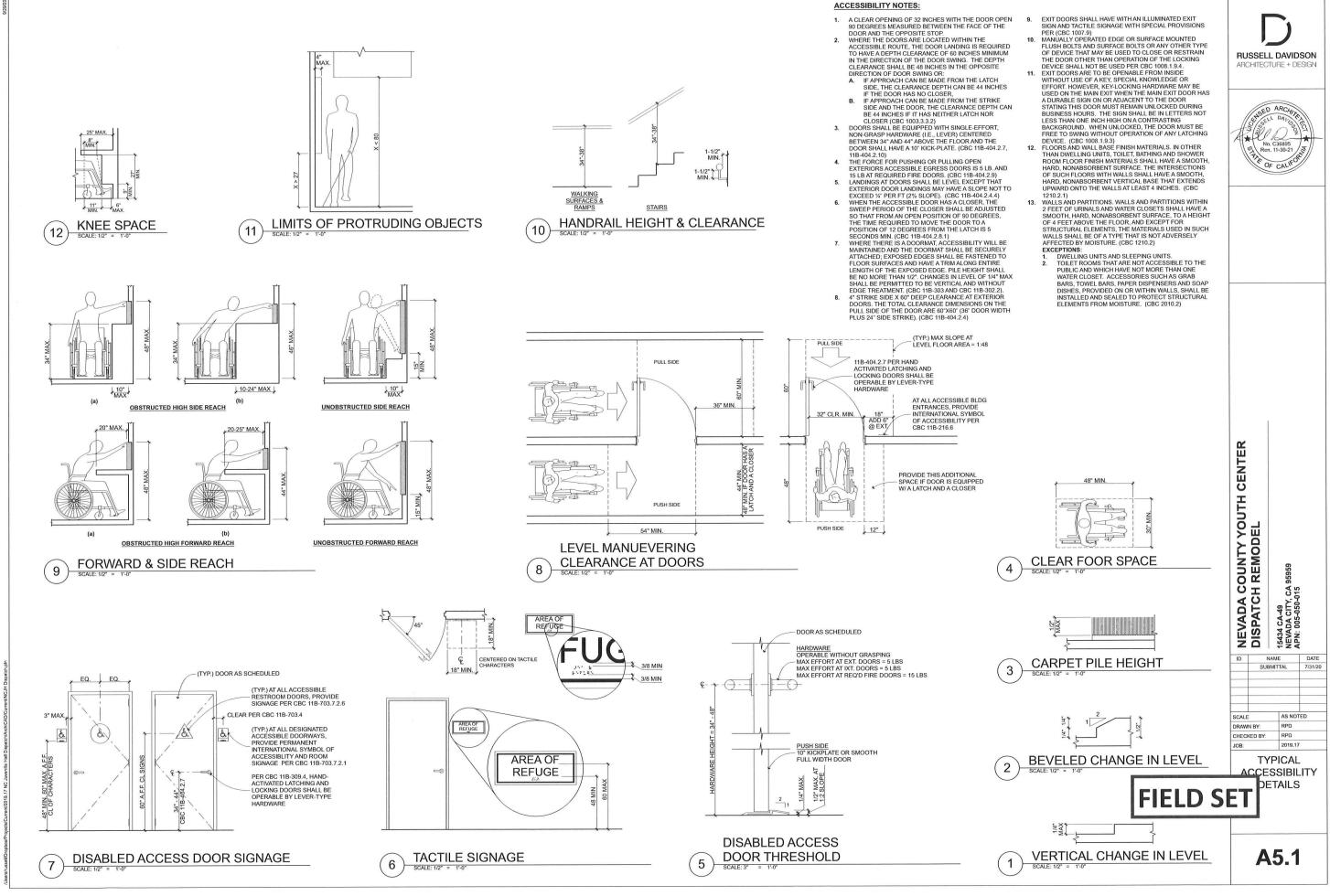
NEVADA COUNTY YOUTH CENTER DISPATCH REMODEL 15434 CA-49 NEVADA CITY, CA 95959 APN: 005-050-015

ID	NAME		DATE
	SUBN	IITTAL	7/31/20
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CHECKED BY:		RPD	
JOB:		2019.1	7

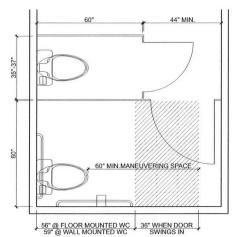
BUILDING SECTIONS, ELEVATIONS & DETAILS

A3.1

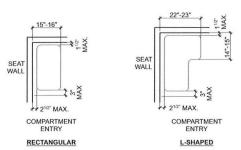




8



(TYP) MULTI-OCCUPANCY **RESTROOM**



SHOWER COMPARTMENT SEAT



RESTROOM SIGNAGE NOTES:

SIGNAGE SHALL BE MOUNTED 60" ABOVE FINISH FLOOR TYP. U.O.N.

WOMEN'S AND MEN'S DOOR SIGNAGE TO BE 1/4" THICK WITH PICTOGRAM, UNISEX SIGNAGE TO BE 1/4" THICK TRIANGLE ON



1/4" THICK CIRCLE WITH PICTOGRAM 3 TITLE 24 RECOMMENDS NO RAISED PICTOGRAM, BRAILLE OR LETTERS ON CIRCLE / TRIANGLE DOOR SIGNS

(TYP.) PUBLIC RESTROOM SIGNAGE

11B-703.7.2.6

ACCESSIBILITY NOTES:

 ALL DRINKING FOUNTAINS SHALL EITHER BE LOCATED COMPLETELY WITHIN ALCOVES, POSITIONED COMPLETELY BETWEEN WING WALLS, OR OTHERWISE POSITIONED SO AS NOT TO ENCROACH INTO PEDESTRIAN WAYS. THE PROTECTED AREA WITHII 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 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, (118-602.9) 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 AND CLEARANCES REQUIRED AT OTHER FIXTURES, AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE. (118-604.3.2) FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL GOMPLY WITH SECTION 118-309 EXCEPT THEY 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

ACCESSIBLE COMPARTMENTS COMPLYING WITH SECTION 118-604.82, (118-604.6). THIS-604.82, (118-604.6). TOILET PAPER DISPENSERS SHALL COMPLY WITH SECTION 118-309.4 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 BEST ON THE CROSS OF THE CONTROL OF THE CONTROL OF THE OUTLET OF THE DISPENSER SHALL BE BEST ON THE CROSS DAY OF THE CONTROL OF THE CONTROL OF THE OUTLET OF THE DISPENSER SHALL BE BELOW THE GRAB BAR, 19 INCHES MINIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS, DISPENSERS SHALL NOT BE OF A TYPE GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CORTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW. (118-604.7)
TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH SECTION 118-404
EXCEPT THAT IF THE APPROACH IS FROM THE PUSH SIDE OF THE COMPARTMENT DOOR, CLEARANCE
BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL DE 48 INCHES MINING. ANY OBSTRUCTION SHALL BE 48 INCHES MINIMUM MEASURED PERPENDICULAR TO THE COMPARTMENT DOOR IN ITS CLOSED POSITION, DOORS SHALL BE LOCATED IN THE FRONT PARTITION OR IN THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE FRONT PARTITION

CONTROL

LOCATION

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 DEALL BE SELECTIONS OF SHALL BE SELECTION. DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH SECTION I1B-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

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. (118-604.8.1.2)
A SHOWER SPRAY UNIT WITH A HOSE 59 INCHES LONG MINIMUM THAT CAN BE USED BOTH AS A FIXED-POSITION SHOWER READ AND AS A HANDHELD SHOWER SUBJUL DE DROVINGEN THE SHOWER SDRAY SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY UNIT SHALL HAVE AN ONOFE 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 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, GRATE OPENINGS SHALL BE 114 INCH MAXIMUM AND FLUSH WITH THE FLOOR SURFACE.

A SEAT IN A STANDARD ROLL-IN SHOWER 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 TYPE THE TOP OF THE SOF 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)



RUSSELL DAVIDSON ARCHITECTURE + DESIGN



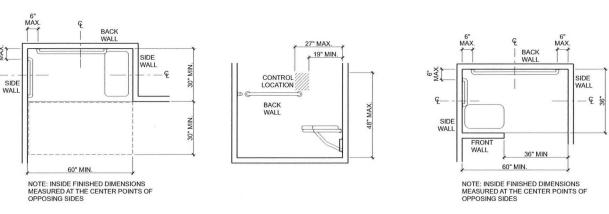
CENTER NEVADA COUNTY YOUTH DISPATCH REMODEL

15434 CA-49 NEVADA CITY, APN: 005-050-0

NAME DATE SUBMITTAL 7/31/20 SUBMITTAL SCALE AS NOTED DRAWN BY: RPD CHECKED BY: RPD 2019.17 **TYPICAL**

ACCESSIBILITY DETAILS

A5.2



ROLL-IN TYPE SHOWER COMPARTMENT

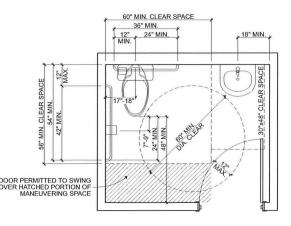
ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT

FIELD SET

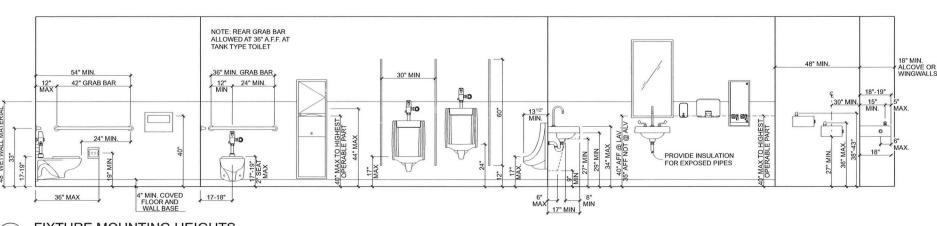
15" MAX.

BACK

CONTROL LOCATION



(TYP) ACCESSIBLE RESTROOM



FIXTURE MOUNTING HEIGHTS

PART 1 GENERAL SUBMITTALS

Product Data: Provide data for masonry units, fabricated wire reinforcement, mortar, and masonry

Manufacturer's Certificate: Certify that masonry units meet or exceed specified requirements Manufacturer's Certificate: Certify that water repellent admixture manufacturer has certified masony unit manufacturer as an approved user of water repellent admixture in the manufacture of research belief.

PART 2 PRODUCTS

Concrete Block: Comply with referenced standards and as follows:

Size: Standard units with nominal face dimensions of 16 by 8 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: As specified in Section 040511 Masonry Cement: ASTM C91/C91M, Type N.

Integral Water Repellent Admixture for Mortar: Polymeric liquid admixture added to mortar at the time of manufacture. Moisture-Resistant Admixture: Water repellent compound designed to reduce capillarity

The production of the production of the production of the production of the specified strength of the production of the specified strength in accordance with ASTM C714WC174M and capable of producing motar of the specified strength in accordance with ASTM C270 with the addition of water only. Type: Type N. Color: Match existing.

Water-repellent motar 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 C1714/C1714M 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

Metal Flashing Materials: Stainless Steel, as specified in Section 076200.

Metal Flashing Materials:

Stainless Steef Flashing: ASTM A666, Type 304, soft temper; 26 gage, 0.0187 inch (0.48 mm) thick; finish 28 to 2D.

Perfabricated 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 Dams: Stainless steel.

Flashing Sealant/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

Lap Sealants and Tapes: As recommended by flashing manufacturer; compatible with membrane

MORTAR AND GROUT MIXING

Mortar for Unit Masonry: ASTM C270, using the Proportion Specification. Exterior, loadbearing masonry: Type N.
Exterior, non-loadbearing masonry: Type N.
Interior, loadbearing masonry: Type N.
Interior, non-loadbearing 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 530/530.1/ERTA or applicable building code, whichever is more COURSING

Establish lines, levels, and coursing indicated. Protect from displacement.

Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform

PLACING AND BONDING

thearties.
Concrete Masonry Units:
Bond: Running.
Coursing: One unit and one mortar joint to equal 8 inches (200 mm).
Mortar Joints: Concave.

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, unchipped edges. Prevent broken masonry unit corners or edges.

CAVITY MORTAR CONTROL Do not permit mortar to drop or accumulate into cavity air space or to plug weep/cavity vents REINFORCEMENT AND ANCHORAGE - GENERAL, SINGLE WYTHE MASONRY, and CAVITY WALL

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.

Embed longitudinal wires of joint reinforcement in mortar joint with at least 5/8 inch (16 mm) mortar cover on each side. Place continuous joint reinforcement in first and second joint below top of walls

Lap joint reinforcement ends minimum 6 inches (150 mm).

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.

ARCHITECTURAL WOOD CASEWORI

PART 1 GENERAL PART 2 PRODUCTS CABINETS

Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (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 123600.

Plastic Laminate Countertops: Medium density fiberboard substrate covered with HPDL, conventionally fabricated and self-edge banded.

ACCESSORIES

Adhesive: Type recommended by fabricator to suit application.

Hardware: BHMA A156.9. types as recommended by fabricator for quality grade specified. Hardware: BHMA A15e.9, types as recommended by tanneator for quality grade specialed. Adjustable Sheff Supports: Standards disk-mounted system using recessed metal sheft standards or multiple holes for pin supports and coordinated self rests, polished chrome finish, for nominal 1 inch (25 mm) spacing adjustments. Drawer and Dorr Pulls: "U" 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 extensio

Static Load Capacity: Commercial grade. Mounting: Side mounted.

Hinges: European style concealed self-closing type, steel with polished finish. Soft Close Adapter: Concealed, frame-mounted, screw-adjustable damper; steel with polished

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 length.

Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting Provide matching trim for scribing and site cutting.

Provide matching tim for scribing and site duting.

Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit comers and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter but joints minimum 2 feet from sink cut-outs. (Locate counter but joints minimum 2 feet from sink cut-outs.)

Cap exposed plastic laminate finish edges with material of same finish and pattern.

Provide cutouts for plumbing fixtures. Verify locations of cutouts from on-site dimensions. Prime

SHOP FINISHING

Sand work 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 AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:

PART 3 EXECUTION

INSTALLATION

Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.

END OF SECTION

COMMON WORK RESULTS FOR FLOORING PREPARATION

PART 1 GENERAL

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

PART 2 PRODUCTS

MATERIALS

Alternate 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

ICINE LE SLAB PREPARATION

Perform following operations in the order indicated:

Existing concrete stabs (on-grade and elevated) with existing floor coverings:

Visual observation of existing floor covering, for adhesion, water damage, alkaline deposits, and other defects.

Removal of existing floor covering.

Preliminary cleaning.

Specified remediation, if required.

Patching smoothing and leveling as required.

Patching, smoothing, and leveling, as required.

Other preparation specified. Adhesive bond and compatibility test.

ADHESIVE BOND AND COMPATIBILITY TESTING

Comply with requirements and recommendations of floor covering manufacturer. END OF SECTION

RESILIENT FLOORING

PART 1 GENERAL

TILE FLOORING

Vinyl Tile - VT-1: Solid vinyl with color and pattern throughout thickness. Minimum Requirements: Comply with ASTM F1700, of Class corresponding to type

Minimum Requirements: Corr specified. Plank Tile Size: 7 by 48 inch. ess: .02 inch (20 mm mm).

Total Thickness: [.118] inch ([___] mm).
Pattern: Transcend 5529V. Color: Portabello 00765.

RESILIENT BASE Resilient Base - Type RB-1: ASTM F1861, Type TS rubber, vulcanized thermoset; top set Style B,

Height: 4 inch (100 mm). Thickness: 0.080 inch (2.0 mm). Finish: Satin. Color: 217 Charcoal.

PART 3 EXECUTION

Starting installation constitutes acceptance of subfloor conditions

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.

Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches (45 mm) between

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 and Tile: Pattern: Transcend 55 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, furnifolty, 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

END OF SECTION

TILE CARPETING

PART 1 GENERAL SUBMITTALS

Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color

PART 2 PRODUCTS MATERIALS

Tile Carpeting, Type [____]: Tufted, manufactured in one color dye lot.

Product: First One Up II Tile - BT443 manufactured by Mohawk. Tile Size: 24" by 24" inch (___by__ mm), nominal. Thickness: [.088"] inch ([___] mm). Pattern: Importance

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

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. ttems indicated to terniam unimissity. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment. Stainless steet, anodized aluminum, bronze, teme coated stainless steet, and lead items.

Marble, granite, slate, and other natural stones. Glass. Concealed pipes, ducts, and conduits

SUBMITTALS

MANUFACTURERS

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 sheen is specified, submit samples in only that sheen. PART 2 PRODUCTS

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 coaling, with good flow and brushing properties, and capable of dyng or curing free of streaks or sags.

Supply each paint material in quantily 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/ceiling they are mounted on/under.

PT-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: top Coat Sheen:
Eggshelt: MPI gloss level 3; use this sheen at all locations.
Salin: MPI gloss level 4; use this sheen for items subject to frequent touching by occupants, including door frames and raillings.
Primer: As recommended by top coat manufacturer for specific substrate.

PAINT SYSTEMS - INTERIOR

PART 3 EXECUTION

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

END OF SECTION

RUSSELL DAVIDSON



 $\overline{\mathbf{c}}$ YOUTH OUNTY Y NEVADA CO DISPATCH F DA CITY, 005-050-0 15434 NEVAL APN: 0 NAME DATE
SUBMITTAL 7/31/20

ENT

2019.17 **SPECIFICATIONS**

DRAWN BY: RPD

CHECKED BY: RPD

SCALE

AS NOTED

FIELD SET

A7.1

VERTICAL LOUVER BLINDS

PART 1 GENERAL

PART 2 PRODUCTS BLINDS AND BLIND COMPONENTS

Vertical Louver Blinds: Horizontal travel, vertical vane louver units complete with tracks, pivot and vertical Louver simbs: Horizontal travel, vertical varie louver unit traversing mechanisms, and accessories, as follows: Vanes: 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.

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 operations.

carners, and other components required for proper performance and designed for smoon, quiet, trouble free operation.

Pivol 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.

Till Chair: 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- bracket 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 [__]: NEMALD 3, Grade HGS, 0.048 inch (1.2 mm) nominal thickness.

thickness.
Finish: 60 Matte.
Surface Color and Pattern: Wilsonart Black Alicante 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 entity from installer).

QUALITY ASSURANCE

Comply with the following: NFPA 70.

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.

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

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.

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





CENTER YOUTH (NEVADA COUNTY Y DISPATCH REMODE NAME DATE SUBMITTAL 7/31/20 ID

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

15434 CA-49 NEVADA CITY, CA 9 APN: 005-050-015

SPECIFICATIONS

FIELD SET

A7.2

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape Irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

included in the total area calculations.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.302 DEFINITIONS

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation

Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hards areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

SECTION 5.201 GENERAL 5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

SECTION 5.301 GENERAL 5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which as two major influence the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12. "graywater" means untreated wastewater thas not been contaminated by any tolled tischarge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthird processing, manufacturing, or operating wastes. "Graywater" includes, but Is not limited to wastewater from bathfubs, showers, bathroom wastheains, collades washing machines and learnor trust, but does not include waste water from kitchen sinks or

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance a as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waster matter stating a quality that is suitable to use the water agree.

SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one pu such as landscape infigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape SECTION 5.303 INDOOR WATER USE
5.303.1 MFTERS. Senarate submeters or metering devices shall be installed for the uses described in Sections

5,303,1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty selaon or bather store.

Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:

a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). Makeup water for exponentially coolers greater than 500 gpm (004 1/s).

5,303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5,303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type tollets.

Note: The effective flush volume of dual flush tollets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinels.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.3 Showerheads, [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psl. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterGense Specification for Showerheads.

5,303,3,2,2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic puroses, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Juriscietion.

BUSSELL DAVIDSON ARCHITECTURE + DESIGN



CENT YOUTH EVADA COUNTY ISPATCH REMOD 15434 CA-49 NEVADA CITY, APN: 005-050-0 ZO

SUBMITTAL CHECKED BY:

CGBSC

TA8.1

CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provision of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1, feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occ the authority of California Building Standards Commission). Code sections relevant to addition alterations shall only apply to the portions of the building being added or altered within the scop

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only.

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. Sec Civil Code Section 1101.1 et seq. for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and dules and responsibilities for

301,3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant impro only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions I Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

CHAPTER 5

e provisions of this chapter outline planning, design and development methods that include environment ponsible site selection, building design, building siting and development to protect, restore and enhand vironmental quality of the site and respect the Intentity of adjacent properties.

SECTION 5.102 DEFINITIONS

owing terms are defined in Chapter 2 (and are included here for reference

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. It is applied to the lateral angles around the luminaire.

Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 4390 and CCR. Tille 13, Sections 1951 and 1952.
 High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Deaardment of Motor Vehicles.

EIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle ther in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to

ENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permocupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonporfit work-related transportation of adults for the purpose of direlataring.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT
5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE
OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction

5 106 1.1 Local ordinance Comply with a lawfully enacted storm water management and/or erosion control

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include,

Soil loss BMPS trait should be considered for implementation as appropriate for each project but are not limited to the following to the project should be proposed to the following the but the presentation of natural features, vegetation, soil, and buffers around surface waters. c. Drainage swales of lined officines to control stormwater flow. d. Mulching or hydroseeding to stabilize disturbed soils. e. Erosion control to protect alogies.

croson control to protect slopes.

Protection of storm drain inlets (gravel bags or catch basin inserts).

Perimeter sediment control (perimeter silt fence, fiber rolls).

Sediment trap or sediment basin to retain sediment on site.

Stabilized construction exists.

j. Wind erosion control.
k. Other soil loss BMPs acceptable to the enforcing agency.
Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:

not limited to, the following:

Dewatering activities.

Material handling and waste management.

Bullding materials stockpile management.

Management of washout areas (concrete, paints, stucco, etc.).

Control of welickelequipment leuling to contractor's staging area.

Vehicle and equipment cleaning performed off site.

ger common plan of development or sale must comply with the post-construction requirements detailed in the pplicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges sociated with Construction and Land Disturbance Activities Issued by the Salte Water Resources Control Board or e Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit). The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measure Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agent.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstomwater. Consideration to the stormwater unoff manage should be given during the Initial design process for appropriate integration into site development.

5,106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES O

LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sal

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections **5.106.4.1.1** and **5.106.4.1.2**; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of hew visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bleyete parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bleyete parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new bullding.
5.106.4.2.2 Sita bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new bullding. Acceptable bicycle parking facilities shall be convenient from the steet of staff parking area and shall meet one of the following.

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fine-lefficient and carnopolywan pool vehicles as follows:

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES			
0-9	0			
10-25	1			
25-50	3			
51-75	6			
76-100	8			
101-150	11			
151-200	16			
204 AND OVED	AT LEAST 89/ OF TOTAL			

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.2, a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

The type and location of the EVSE.
 A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.
 The raceway shall not be less than trade size 1*.
 The raceway shall originate a to service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed with the state than a design or equipment.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) later required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

The type and location of the EVSE.
 The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into lasted subble cabinet(s), box(es), enclosure(s) or equivalent.
 Plan design shall be based upon 40-ampere minimum branch circuits.
 Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
 The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuits(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine it

Where there is insufficient electrical supply.
 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

TABLE 5 106 5 3 3 TOTAL NUMBER OF PARKING SPACES NUMBER OF REQUIRED SPACES 26-50 51-75 76-100 101-150

1. Calculation for spaces shall be rounded up to the nearest whole number

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The receiverination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

5.106.8 LIGHT POLLUTION REDUCTION, [N].I Outdoor lighting systems shall be designed and installed to comple with the following:

The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and Backlight (6) radings as defined in IEST M-15-11 (Johns in Table A-1 in Chapter 8); Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130,2-A and 130,2-B in Chapter 8) and

Luminaires that qualify as exceptions in Section 140,7 of the California Energy Code.

Emergency lighting.

Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.

Custom lightling features as allowed by the local enforcing agency, as permitted by Section 101.8

Alternate materials, designs and methods of construction.

Note: [N]

1. See also California Bullding Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.

2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, California Building Code tables 130.2-A and 130.2-B.

3. Refer to the California Building Code for requirements for additions and alterations.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 12

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4	
MAXIMUM ALLOWABLE BACKLIGHT RATING 3						
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit	
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	В3	B4	B4	
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	В3	В3	
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	В0	В0	B1	B2	
MAXIMUM ALLOWABLE UPLIGHT RATING (U)						٢
For area lighting 4	N/A	UO	uo	U0	U0	11
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR	
MAXIMUM ALLOWABLE GLARE RATING 5 (G)						
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4	
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2	
Luminaire front hemisphere is 0,5-1 MH from property line	N/A	G0	G0	G1	G1	0
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	G0	G0	G0	G1	

. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the California Administrative Code.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public readways and public transit corridors, the property line may be considered to be the centerline of the public readway or public transit corridor for the purpose of determining compliance with this section.

If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.

5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface v include, but are not limited to, the following:

Exception: Additions and alterations not altering the drainage path.

Names.
 Water collection and disposal systems.
 French drains.
 Water collection gardens.
 Other water measures which keep surface water away from buildings and aid in groundwater.

FIELD SET

OCCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEAN'S TO INDICATE AREAS OF COMPILANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN, CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL NEEDS. THE END USER A SAMME AL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT. INCLUDING VERIFICATION WITH THE FULL CODI

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warrantiles for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

ARTERIAL HIGHWAY, A general term denoting a highway primarily for through traffic usually on a continuous route

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenhelt per hour, a common measure of heat transfer rate. A ton of retifigeration is 12,000 Btu the amount of heat required to melt a ton (2,000 pounds) of fee at 32° Fahrenhelt.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn),

COMPOSITE WOOD PRODUCTS, Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nightline hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, nelphborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric mot and raws current from a nechangeable storage battery, fuel cell, princovolvalia raray, or orber source of electric current plugin hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Coffroad, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, aidine ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A.3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

drochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any composito or blend of compounds, with a IWP value equal to or greater than 150, or (B) any zone depleting substance as defined in Tille 40 of the Code of seleral Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) Is not an zone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundrelts of a gram (g O'g ROT).

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Tille 17.5 section 94509(a) ex

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product reactivity expressed to hundredths of a gram of ozone form product (reactivity expressed to hundredths of a gram of ozone form product (reactivity) and pro

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2-1999.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.502 DEFINITIONS

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

Y S YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (Ie: ARCHITECT, ENGINEER
OWNER CONTRACTOR INSPECTOR ETC.)

RUSSELL DAVIDSON

CENTER YOUTH)EL

OUNTY NEVADA CO DISPATCH F CA-49 DA CITY, 005-050-0

NAME DATE SUBMITTAL 7/31/20 SCALE AS NOTED DRAWN BY: RPD CHECKED BY: 2019.17 **CGBSC**

FIELD SET

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SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT 5.303.3.4 Faucets and fountains. omia Building Code Section 140.2 (Weather Protection), manufacturer's installation instructions or local ance, whichever is more stringent. 5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods 5.303.3.4.2 Kitchen faucets. Klichen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Klichen faucets may temporarily increase the flow above the maximum rate but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 galloper minute at 60 psi. 5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures. 5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driver rain to prevent water intrusion into buildings as follows: 5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psl]. such openings plus at least one of the following: 5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle. An installed awning at least 4 feet in depth.
 The door is protected by a roof overhang at least 4 feet in depth.
 The door is recessed at least 4 feet.
 Other methods which provide equivalent protection. 5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 (rim space (inches) at 60 psi). Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction. 5.303.4 COMMERCIAL KITCHEN EQUIPMENT. 5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food wastein-bod) or shall automatically shut off after no more than 1 or invites of inactivity. Disposers shall use no more sten 1 or land to a contract of the contract of SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING 5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.2 or 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringer. 5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fatures in additions or areas of alteration to the building. 5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that: Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
 Determines if construction and demolition waste materials will be sorted on-site (source-separated) or 5,303,6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701: of the California Plumbing Code and in Chapter 6 of this code. Determines it constructor and usual and the bulb in the state of the s byweight or volume, but not by both. SECTION 5.304 OUTDOOR WATER USE
5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply
with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Wate
Efficient Landscape Ordinance (MWELO), whichever is more stringent. 5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill compiles with this section. Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. Notes:

1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulatior Title 23, Chapter 27, Division 2.

2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/. Exceptions to Sections 5.408.1.1 and 5.408.1.2: 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Editional Landscape Ordinance (MWCLD) commending with Section 490 of Chapter 2.7, Oblision 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of College areas (SLA) of Col Excavates our ann cand-cleaning debts.
 Alternate waster eduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
 Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities 5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% ninimum requirement as approved by the enforcing agency. Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO. 5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance with the waste management glorid building compliance with the waste management glorid education.
 Moted construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (California). DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE **EFFICIENCY** 5.408.2 UNIVERSAL WASTE. (A) Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Wast items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibit Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Wasterials shall be included in the construction documents. SECTION 5.401 GENERAL hanter shall outline means of achieving material conservation and resource Note: Refer to the Universal Waste Rule link at: http://www.disc.ca.gov/LawsRegsPolicles/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf SECTION 5.402 DEFINITIONS
5.402 I DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference) 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockelled on site until the storage site is developed. ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities. ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food solled paper waste that is mixed in with food waste. SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS TEST. A procedure to determine quantitative performance of a system or equipment 5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive. Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section

5,410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1931 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

5.410.2 COMMISSIONING, [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to wright that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For the occupancies with are not regulated by OSHPO or the Occupancies and L-occupancies that are not regulated by OSHPO or the Occupancies and Sections 6.410.2 Sec

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 102.8 for commissioning requirements

Owner's or Owner representative's project requirements.
Basis of design.
Commissioning measures shown in the construction documents,
Commissioning plan,
Functional performance testino.

Exceptions:

Unconditioned warehouses of any size.
 Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within

unconditioned warehouses.

3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.

4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.

Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR), [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:

1. Environmental and sustainability goals.

2. Building sustainable goals;

3. Indoor environmental quality requirements.

4. Project program, including lacility functions and hours of operation, and need for after hours.

Equipment and systems expectations.
 Building occupant and operation and maintenance (O&M) personnel expectations

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meet the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the corruntaliation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information address and of the building components tested, the testing methods utilized, and include any readings and adjusted.

As IVA-3. IVA-0 data-ing. in adouting the second to team gard adjussing, sector a first space-consistent system serving a bullding or space to porated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Bal-Council National Standards or as approved by the enforcing agency.

. Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question. SECTION 5.503 FIREPLACES SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES, install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, butchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL
5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return at fifters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRVE 522-1999, or a werege efficiency of 30% based on ASHRVE 52.1-1992. Perplace all fifters immediately prior to occupancy, or, if the building is occupied cuting alterellon, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and cluming storage on the construction site until final starting or the hearing, cooling and verifiation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of oust, water and debts which are entire this system.

ument how the project will be commissioned. The commissioning plan shall include the follow.

1. General project information.

2. Commissioning goals.

3. An explanation of the original design intent.

4. Equipment and systems to be tested, including the extent of tests.

6. Functions to be tested.

6. Conditions under which the test shall be performed.

6. Measurable criteria for acceptable performance.

Commissioning team information.
 Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning process activities, schedules and responsibilities.

5.410.2.5 Documentation and training, [N] A Systems Manual and Systems Operations Training are requir including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Tille 8, Section 5142, and other related regulations.

of which the systems manual and delivered to the building owner of representative manual shall include the following:

Site information, including facility description, history and current requirements.

Major systems.

Site equipment inventory and maintenance notes.

A copy of verifications required by the enforcing agency or this code.

Other resources and documentation, if applicable.

in or each equipment type and/or system shall be developed and documented in the commission of and shall include the following:

1. System/equipment overview (what it is, what it does and with what other systems and/or

equipment It Interfaces).

Review and demonstration of servicing/preventive maintenance.
Review of the information in the Systems Manual.

Review of the record drawings on the system/equipment.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of

Note; For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, are well as water heating systems and controls, refer to California Energy Code Section 120 8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTERDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALIFORNIA GREEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE

TABLE 5 504 40 MOO CONTENT LIMITO FOR ADQUITECTURAL

5.504.4 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 standards:
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCA/DM Role 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chlordorn, ethylene dichlorder, entrylene chloride, perchloroethylene and trichloroethylene), 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 16 fulld ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commend with Section 94507.

Less Water and Less Exempt Compounds in Grams p	er Liter
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

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 1188, WWw.arb.ca.gov/DROB/SC/CURHTML/RT168/PDF

Less Water and Less Exempt Compounds in Grams per Liter					
SEALANTS	CURRENT VOC LIMIT				
ARCHITECTURAL	250				
MARINE DECK	760				
NONMEMBRANE ROOF	300				
ROADWAY	250				
SINGLE-PLY ROOF MEMBRANE	450				
OTHER	420				
SEALANT PRIMERS					
ARCHITECTURAL					
NONPOROUS	250				
POROUS	775				
MODIFIED BITUMINOUS	500				
MARINE DECK	760				
OTHER	750				

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO

5,504.4.3 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 local limits apply. The VOC content limit for coatings that on on meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Northal or Northal-High Gloss coating, based on its gloss, as defined in Subsections 421, 4.5 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nortlast for Northal-High Gloss VoC limit in Table 5.504.4.3 shall apply.

5.594.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain took recommendations of the property of th

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT	COMPOUNDS
COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
AUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
NDUSTRIAL MAINTENANCE COATINGS	250
OW SOLIDS COATINGS:	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
DPAQUE	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	350
ZINC-RICH PRIMERS	340

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE

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:

 Manufacture'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

Carpet and Rug Institute's Green Label Plus Program.
 Compliant with the VOC-emission 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 V1, or Specification 01350).
 NSF/ANSI 140 at the Gold level or higher:
 Scientific Certifications Systems Sustainable Choice; or

Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.

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 buildings shall meet the requirements for formaldehyde as specified in ARBS Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 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 certifications and specifications.
 Chain of custody certifications.
 Chain of custody certifications.
 Chain of custody certifications.
 Chain of custody certifications.
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TABLE 5.504.4.5 - FORMALDEHYDE LIMITS: MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION CURRENT LIMIT HARDWOOD PLYWOOD VENEER CORE HARDWOOD PLYWOOD COMPOSITE CORE 0.05

U.1.3 V.AU LES IN THIS TABLE ARE DETENDED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, IR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTMER 1933, FOR DOITHOMAL INFORMATION. SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH

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

5.504.4.6 Resillent flooring systems. For 80 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) FloorScore program;
 Compliant with the VOC-emission limits and testing reculrements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
 Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and fiscel in the CHPS High Performance Product Database; or
 Products certified under UL (REERNOUARD Gold (formerly the Greenguard Children's & Schools

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of I.3. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

PARTICLE BOARD

MEDIUM DENSITY FIBERBOARD

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

5.594.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building afteady prohibited by other laws or regulations; or as enforced by ordinances, regulations opticities of any elycounty, clay and country, California Community College, campus of the California Sulface to repeate of the University of California, whichever are more stingent. When ordinances, regulations or policies are not in place, postgrage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

1,585,1 INDOOR MOISTURE CONTROL.

1,585,1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, 2CR, Title 24, Part 2, Sections 1202 (Venitlation) and Chapter 14 (Exterior Walls), For additional measures, see tection 5.047.2 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 Section 120.1 (Requirements For Ventilation) of the Carliornia Energy Code, or the applicable local code, whichever is more stringent, and Division 1. Chapter 4 of COR, Title 8.

5.566.2 CARBON DIOXIDE (CO₂) MONITORING. For buildings or additions equipped with demand control ventilation, CO: sensors and ventilation controls shall be specified and installed in accordance with the requirer of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT
5.507.4 ACQUISTICAL CONTROL. Employ building assemblies an

Exception: Buildings with few or 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: [DSA-SS] 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 making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OTTC rating of no less than 40, with exterior windows of a minimum STC of 40 or OTTC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport

- Low or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
 Low or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.
- Within the 65 CNEL or L∞ noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

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 making up the building or addition envelope or aftered envelope shall be constructed to provide an interior noise environment attributable to extender oscurces that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate 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 complying interior soundlevels shall be prepared by personnel approved by the architect or engineer of record.

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

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

carbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do no 5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming poter (high-GWP) 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.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside climiting (OD) less than 14 inch, tared tubing connections and short radius elbows shall not be used in refigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

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.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufactur

5,508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of

5.508.2.2 Valves. Valves Valves and fittings shall comply with the California Mechanical Code and as

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

5,508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps

5,508,2,2,2,2,1 Chain tethers. Chain tethers to fit ovr the stem are required for valves

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

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent

5.508.2.3.1 Coll coating. Consideration shall be given to the heat transfer efficiency of coil coating to

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and

5,508.2.6.1 First vacuum, Pull a system vacuum down to at least 1000 microns (+/- 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

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

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper

- State certified apprenticeship programs.
 Public utility training programs.
 Tolvilic 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 appency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the

- Certification by a national or regional green building program or standard publisher.
 Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy suddies.
 Successful completion of a third party apprentice training program in the appropriate trade.
 Other program acceptable to the enforcing agency.

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

HERS raters are special inspections certified by the California Energy Commission (CEC) to rate homes in California ecording to the Home Energy Rating System (HERS).

[BSC-CG] 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 substantistic compliance with his code. Special inspectors shall demonstrate completence to the sadisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a cardification from a recognized state, national or international association, as determined by the focal agency. The tification from a recognized state, national or international association, ขอ ออกเกิดของ y included in a closely related to the primary job function, as determined by the local age

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limit construction documents, plans, specifications, builder or installer certification, inspection reports, or other meth





CENTER

YOUTH OUNTY Y IEVADA CO

CA-49 DA CITY, 005-050-0 $\overline{z}\overline{a}$ SUBMITTAL AS NOTED SCALE DRAWN BY: CHECKED BY:

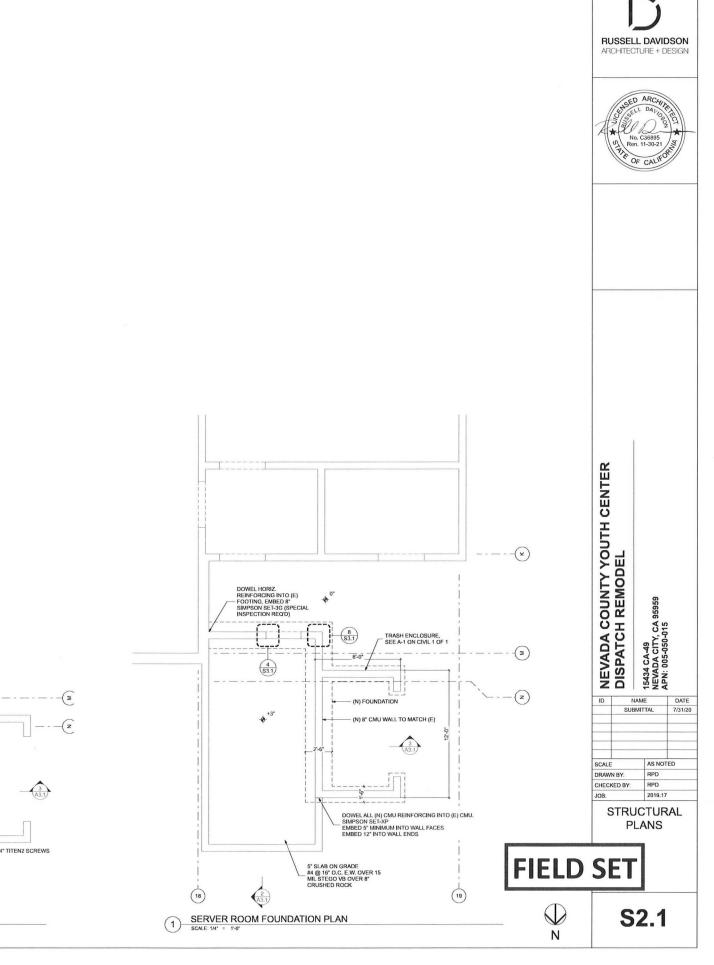
2019.17

CGBSC

FIELD SET

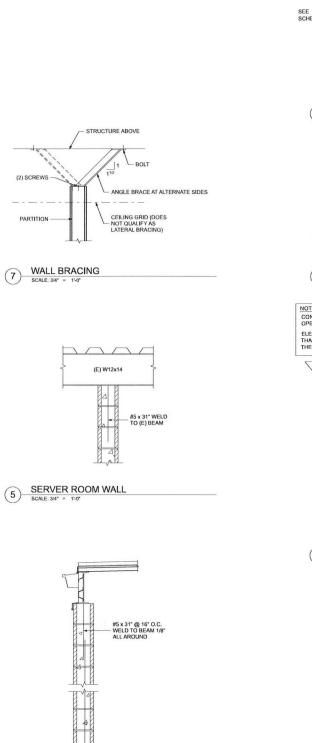
A8.3

BUILDING STANDARDS (CALGREEN CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT. INCLUDING VERIFICATION WITH THE FULL CODI



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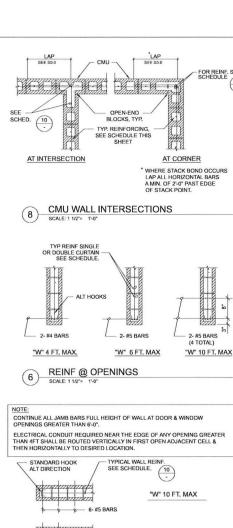


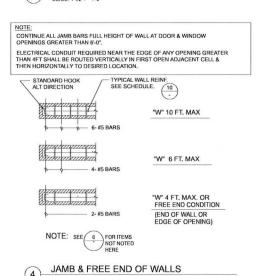
EXT. SLAB ON GRADE PER CIVIL

(N) OPENING @ INT. CMU WALL

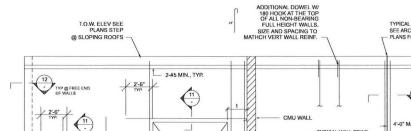
3" CLR.

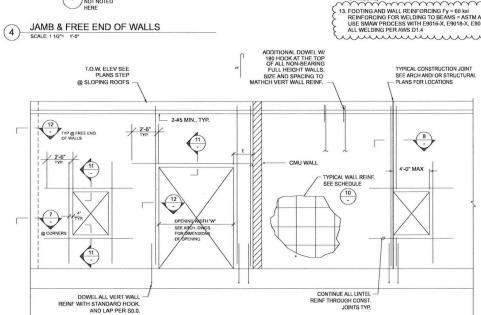
(N) WALL & SLAB @ SERVER ROOM





1) ELEVATION @ 6" & 8" CMU WALLS





DO NOT PLACE ELECTRICAL CONDUIT IN THE SAME CELL AS ANY TYPICALL VERTICAL REINFORCING OR JAMB BARS.

(CONTINUOU	S FOOTING	GRADE BEAL	M 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	_

REINFOR	CED MASO	NRY						f'm = 15	500 PS
	#3 GR40	#4	#5	#6	#7	#8	#9	#10	#11
	19	24	31	36	43	-	-	-	-

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	

N	O	т	F	S

VERTICAL REINF. FOR WALLS SHALL BE CONTINUOUS FROM FOOTING TO TOP OF WALL OR FLOOR TO FLOOR WITHOUT SPLICE. EXCEPT AS NOTED IN DETAIL

2. ALL CELLS SHALL BE SOLID GROUTED

4. HOLD BARS ACCURATELY IN PLACE AT THE CENTER LINE OF THE WALL UNTIL GROUT SETS. 5. USE SPECIAL BOND BEAM OR LINTEL BLOCK AT ALL HORIZONTAL BARS.

6. THE TERM "STANDARD HOOK" SHALL MEAN EITHER:
- 180 HOOK PLUS AN EXTENTION OF 4 BAR DIAMETERS.
- 90 HOOK PLUS AN EXTENTION OF 12 BAR DIAMETERS.

ALL ANGLES AND BENT STRAPS AT TOP ANCHORAGE ARE TO BE INSTALLED TIGHT AGAINST WALL.

8. LAP BARS PER SCHEDULE S0.0 U.O.N.

9. FOR WALL ANCHOR BOLTS SEE 16

10. FOR I < 24" AS SHOWN ON DETAIL 6J- OR AT "FREE END CONDITION" PROVIDE "STANDARD HOOK" ON ALL HORIZONTAL REINFORCEMENT.

11. COORDINATE LOCATION OF SECURITY WALLS WITH ARCH. & SHT S2.1.

8 SHT 52.1.

12. USE 9 GA WIRE POSITIONERS FOR ALL VERTICAL WALL
REINFORCING. (AA WIRE PRODUCTS COMPANY # AA225
OR EQUAL)

13. FOOTING AND WALL REINFORCING Fy = 60 ksi
REINFORCING FOR WELDING TO BEAMS = ASTM A706, GRADE W
USE SMAW PROJESS WITH E9016-X, E9016-X, E9016-X, or E9018M ELECTRODES
ALL WELDING PER AWS D.1.4





NEVADA COUNTY YOUTH CENTER DISPATCH REMODEL 15434 CA-49 NEVADA CITY, (APN: 005-050-0 NAME DATE
SUBMITTAL 7/31/20
9/29/20 ID

AS NOTED SCALE DRAWN BY: RPD
CHECKED BY: RPD 2019.17 **ENGINEERING DETAILS AND**

SECTIONS

FIELD SET

S3.1

HVAC LEGEND 40 CFM SUPPLY DIFFUSER, SIZE AND FLOW RATE LISTED ARROWS INDICATE THROW PATTERN 24"x10" RA RETURN GRILLE, SIZE AND FLOW RATE LISTE AND FLOW RATE LISTED CEILING EXHAUST GRILLE, SIZE AND FLOW RATE LISTED RECTANGULAR SUPPLY AIR CROSS SECTION RECTANGULAR RETURN AIR CROSS SECTION BALANCING DAMPER 10"0 RIGID DUCT 10"0 FLEXIBLE DUCT CUBIC FEET PER MINUTE CFM RA RETURN AIR SA SUPPLY AIR HEAT PUMP FAN COIL UNIT

HVAC NOTES

5. CONTROLS - GENERAL

**NOTALL NEW AIR CONDITIONING \$YSTEM FOR IT ROOM, AS INDICATED ON PLANS.

**FURNISH AND INSTALL ALL MATERIALS AND PERFORM ALL LABOR NECESSARY FOR A COMPLETE INSTALLATION OF HYAC WORK INDICATED ON THE DRAWINGS. ALSO, PROVIDE ANY INCIDENTAL WORK NOT SHOWN OF SPECIFIED, WHICH CAN REASONABLY BE INFERRED OR TAKEN AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE COMPLETE \$YSTEM.

3. IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO ASSURE ALL MECHANICAL SYSTEMS FUNCTION PROPERLY, SAFELY, AND MEET ALL LOCAL, STATE AND REGIONAL CODES.

ALL WORK IS TO CONFORM TO THE ACCEPTED STANDARDS OF THE TRADE. THE ENGINEER IS TO BE NOTIFIED IF ANY SUBSTITUTIONS ARE SEEN TO BE NECESSARY.

CONTROL 4. CENTER!

ATTE VENITATION 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 5-1-1 DAY

C.PROGRAMMING AND 24-HOUR HEATING AND COOLING SETBACK

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

PI, ANS, 48 INCHES ABOVE FINISHED FLOOR LEVEL.

EINSTALLING SUB-CONTRACTOR SHALL PROVIDE ENGINEER WITH
COMPLETE CONTROL SCHEMATIC INCLUDING SUBMITTALS FOR
EACH COMPONENT

6. AIR DIFFUSERS AND RETURN/EXHAUST GRILLES SHALL BE
SHOEMAKER OR EQUAL. PROPOSED MODEL MUMBERS FOR
DIFFERENT APPLICATIONS ARE AS FOLLOUS.

AREI LATER.

AREI LATER.

AREI LATER.

APPLICATION MODEL . REMARKS CLG GYPSUM SUPPLY LSW 1/8" 0" LINEAR DIFFUSER WITH 1/8" BARS

AT " SPACING AND O' DEFLECTION

GYPSUM CEILING FG2 STAMP FACED FILTER GRILLE PROVIDE 2" MERV-13 FILTER FILTERED RETURN

1. 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 DOUNWARD ELBOW. CONDENSATE SHALL BE 3/4" SCHEDULE 4/0 PVC UNLESS OTHERWISE NOTED. IN LIEU OF SECONDARY DRAIN, FLOAT SUITCH FOR AIR HANDLER WILL INTERRIPT POWER TO THE FANCOIL WITH WHEN MOISTURE IS DETECTED IN THE DRAIN PAN.

9. DICT MATERIAL AND, SEA INC.

9. DUCT MATERIAL AND SEALING: ADUCTING IN CONCEALED LOCATION SHALL BE GALVANIZED SHEET HETAL. PRE-INSULATED FLEX DUCT MAY BE USED AS LEADERS (5 MAX) TO AND FROM AIR TERMINALS, PER CHIC 60341. DUCT SHALL BE MANUFACTURED IN ACCORDANCE WITH CHAPT. 6 OF THE 2019 CMC AND SHACKA GUIDELINES. B.PRE-INSULATED FLEX DUCT SHALL HAVE AN R-VALUE = 8.0. CINNER LINING OF FLEX DUCTING SHALL BE SECURELY FASTENED WITH A PANDUIT STRAP. THE EXTERIOR LINING (INSULATION) SHALL BE SECURELY TAPED TO THE SHEET METAL FITTING.

D.FACTORY-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH ULBS.

ULIBI.

EMETAL TO METAL JOINTS SHALL BE SEALED WITH MASTIC SEALANT TO PROVIDE AIRTIGHT PROTECTION PRIOR 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 ULIBI, UL IBIA OR ULIBIB

UL 181A, OR UL 181B.

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

INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING IS DEGREES DIVERGENCE WHEREVER POSSIBLE. DIVERGENCE UPSTREAM OF EQUIPPENT SHALL, NOT EXCEED 30 DEGREES: CONVERGENCE DOWNSTREAM SHALL NOT EXCEED 30 DEGREES:

SUPPORTS AND HANGERS FOR DUCTING SHALL BE IN ACCORDANCE WITH THE 2016 UNIFORM MECHANICAL CODE AND IN ACCORDANCE WITH SMACNA HAVA DUCT CONSTRUCTION STANDARDS - METAL, AND FLEXIBLE. DUCTS SHALL BE SUPPORTED AT EACH CHANGE OF DIRECTION. SUPPORTS AND B' INTERVALS (MIN.)

INTERVALS (MIN.)

13. WRAP ALL UNLINED CONCEALED SUPPLY AND RETURN DUCTS WITH O.C. FIBERGLASS DUCT WRAP OR JM MICROLITE, 2" THICK AND I" PER CUBIC FOOT DENSITY. WRAP INSULATION ENTIRELY AROUND DUCT AND WIRE 9EZ CURELY IN PLACE WITH "#6 WIRE 12" OC. ON EACH SIDE OF STANDING SEAM AND OVER INSULATION JOINT, LAP ALL INSULATION JOINT 3" MIN. INSULATE DUCTS TIGHT AGAINST OTHER WORK BEFORE HANGING IN PLACE.

OTHER WORK BEFORE HANGING IN PLACE.

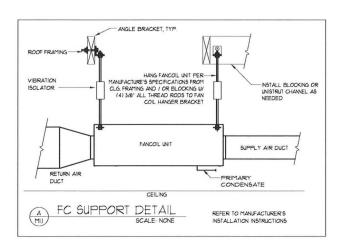
A TIME OF ROUGH INSTALLATION OR DURING STORAGE OF THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HVAC SYSTEM, ALL DUCTING AND RELATED AIR DISTRIBUTION COMPONENTS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR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

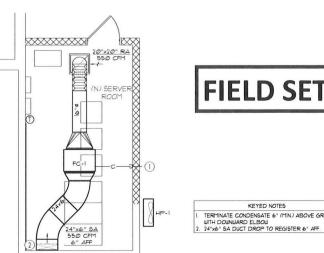
15. AIR DISTRIBUTION SYSTEM SHALL BE BALANCED WITH AN AIR DISTRIBUTION STATEM SHALL BE BALANCED WITH AN APPROVED AND CALIBRATED AIR FLOW MEASURING DEVICE. PROVIDE OWNER WITH COMPLETE AIR BALANCE REPORT IN ACCORDANCE WITH THE SPECIFICATIONS.

I6, NO DUCTED OR NON-DUCTED AIR MOVING DEVICE SHALL TERMINATE IN ATTIC.

I NSULTE CONDENSATE LINE WITH ARMSTRONG 1/2" WALL
THICKNESS "DG TUBO-SLIT" COND=0/29 (BTU-IN/HR-'F) AT 15'F IN
ACCORDANCE WITH ASTM C ITT OR C 518 WITH THIRD PARTY
TESTING SUPERVISION

								HV	AC EQI	JIPMEN	IT SC	HEDUL	.E				
			COOLING		HEATING		FAN				ELECT.						
SYMBOL	AREA SERVED	TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	COIL EDB/EWB (*F)	HIGH INPUT/OUTPUT (BTU/HR)	DB (°F)	CFM	S.P. (WC)	O.A. (CFM)(1) (MIN)	VOLTAGE	MCA	COMP. LRA	FUSE/MOCP	MFGR & MODEL NO.	WEIGHT (LBS)	EFFICIENCY	REMARKS
FC-1	.(N) SERVER ROOM	17,500	12,500	80/65	21,600	47	554		(2)	(2)	0.21		(2)	FUJITSU # ARU18RLF	49		INDOOR HEAT PUMP FANCOIL UNIT DIMENSIONS: H=7-13/16", 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	FUJITSU # AOU18RLFC	86		GROUND MOUNTED OUTDOOR HEAT PUMP DIMENSIONS: H=24-7/16", W=34-1/2", D=13-7/8"





KEYED NOTES TERMINATE CONDENSATE 6" (MIN.) ABOVE GRADE 24"x6" SA DUCT DROP TO REGISTER 6" AFF.

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





ENERGY 4 MECHANICAL CONSULTANTS 541 UREN STREET NEVADA CITY CA 95959 PHONE (530) 265-2492 FAX (530) 265-2273

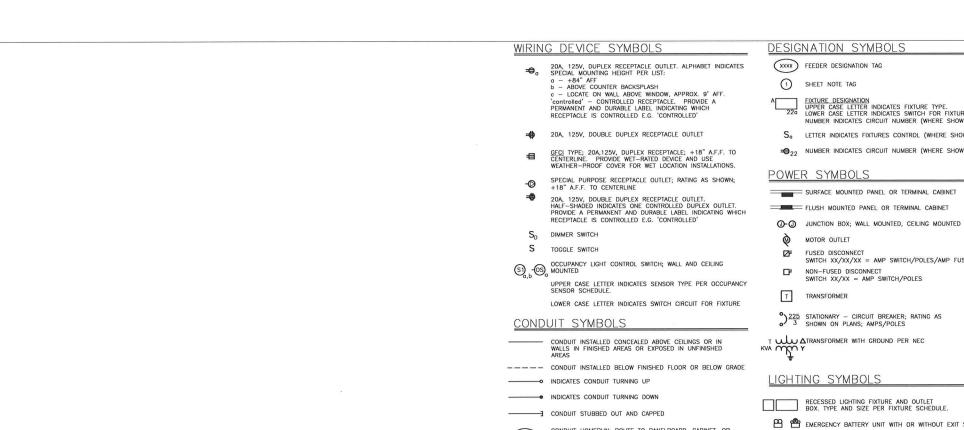


DISPATCH HALL NC JUVENILE

15434 CA-49 NEVADA CITY, CA HVAC FLOOR F

PLAN

No. Date: By: Description: 20-025 Job# Scale as noted 6-10-2020 M1.1



(E)MAIN SWITCHBOARD 'MSB' 400 AMP, 277/480 VOLT, 30, 4W NEMA 1 ENCLOSURE

NEUT

CONDUIT HOMERUN; ROUTE TO PANELBOARD, CABINET, OR TERMINAL BOARD INDICATED, AND TERMINATE CONDUCTORS TO CIRCUIT OVER CURRENT PROTECTIVE 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.

250KW (300KVA)

(E)DISTRIBUTION PANEL 'EDP

(E)'T-2'

(E)'T-3

◀ TELEPHONE/DATA OUTLET

(E)'ATS' 400A/3P

ONE-LINE DIAGRAM

- FIXTURE DESIGNATION
 UPPER CASE LETTER INDICATES FIXTURE TYPE.
 LOWER CASE LETTER INDICATES SWITCH FOR FIXTURE
 NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN).
 - Sa LETTER INDICATES FIXTURES CONTROL (WHERE SHOWN)
- ⇒22 NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN)
- SURFACE MOUNTED PANEL OR TERMINAL CABINET

- FUSED DISCONNECT SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE

- RECESSED LIGHTING FIXTURE AND OUTLET BOX. TYPE AND SIZE PER FIXTURE SCHEDULE
- A 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.

MAINTAIN CIRCUIT CONTINUITY TO ALL REMAINING DEVICES. FIELD CHECK AND YERIFY THAT ALL EXISTING GROUNDING, TO EXISTING DEVICES TO REMAIN, IS ADEQUATELY TERMINATED. PROVIDE NEW GROUND WIRE AS NEEDED.

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

504

504

1004

- 4 #3 CU, 1 #8 CU GND., IN 1-1/4"C.

7680 AMPS SCI AT TRANSFORMER SECONDARY. NEW ELECTRICAL PANELS TO BE FULLY RATED AT 10,000 AIC.

WORK STATEMENT

GENERAL NOTES

NTRACTOR IS RESPONSIBLE FOR READING AND INCLUDING ALL DRMATION PROVIDED IN THE WRITTEN NOTES THROUGHOUT THE WINGS. SYSTEM REQUIREMENTS MAY NOT BE PICTORIAL.

FURNISH ALL LABOR, MATERIALS, EQUIPMENT & SERVICES NECESSARY TO CONSTRUCT AND INSTALL COMPLETE & OPERATIONAL ELECTRICAL SYSTEMS INDICATED ON THE DRAWINGS & IN THE SPECIFICATIONS.

PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES FOR ALL MODIFIED PANELS TO INDICATE NEW AS-BUILT CONDITION.

PROVIDE MELAMINE PLASTIC ENGRAVED LABELS FOR PANELS, MAIN SWITCHBOARD DISCONNECTS, AND ALL MAJOR ELECTRICAL EQUIPMENT.

ALL NEW CONDUITS, WITHIN FINISHED SPACES, SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.

ALL ELECTRICAL DEVICES INDICATED ON THESE SHEETS ARE NEW UNLESS OTHERWISE NOTED AND ARE TO BE INSTALLED PER CBC1117B.6.

DO NOT INSTALL RECEPTACLES OR TELEPHONE OUTLETS BACK-TO-BACK IN DEMISING WALLS.

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, APE 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.

PROVIDE ALL SYSTEMS, EQUIPMENT, DEVICES, MATERIALS, FEEDERS, WIRING, CONDUITS AS SPECIFIED, WHETHER SHOWN OR NOT SHOWN ON FLOOR PLANS.

O. PROVIDE #12 CONDUCTORS FOR ALL WIRING FOR CIRCUITS WHERE NOT SHOWN ON DRAWINGS. NUMBER AS REQUIRED IN CONDUIT SIZED PER NEC.

1. 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.

2. ELECTRICAL PANELBOARDS SHALL HAVE DOOR-IN-DOOR FRONT COVERS.

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

ALL EXISTING DEVICE LOCATIONS ARE TO REMAIN UNLESS DEMOLITION WORK REQUIRES THEIR REMOVAL, NOT ALL EXISTING DEVICES ARE SHOWN.

WHERE DEVICES ARE DEMOLISHED OR RELOCATED, REMOVE CONDUCTORS BACK TO NEAREST JUNCTION BOX AND REMOVE ALL ABANDONED PATHWAY FROM AREA OF WORK.

WHERE DEVICES OR LUMINAIRES ARE DEMOLISHED OR RELOCATED, PATCH, REPAIRAND REFINISH SURFACES.

- ONE EXISTING LIGHT FIXTURE IS TO BE RELOCATED.
 NEW TRANSFORMER AND ELECTRICAL PANEL IN NEW I.T. ROOM.
 POWER AND LIGHTING TO NEW I.T. ROOM.
 NEW KITCHEN EQUIPMENT IN EXISTING BREAK ROOM.
 NEW POWER TO CALL CENTER ROOM.
 EXISTING LIGHTING TO REMAIN, UNLESS OTHERWISE NOTED.
 EXISTING LIGHTING TO REMAIN UNLESS OTHERWISE NOTED.

	ABBREVIATIONS
AFF	ABOVE FINISHED FLOOR
CU	COPPER
(E)	EXISTING TO REMAIN
(EL)	EXISTING RELOCATED TO THIS LOCATION
GFCI	GROUND FAULT CIRCUIT INTERRUPTING
G	GROUND
NL	NIGHT LIGHT CIRCUIT
(R)	TO BE REMOVED/DEMOLISHED
TYP	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF

	ELECTRICAL SHEET INDEX	
SHEET	DESCRIPTION	SCALE
E0.1	LEGEND, ONE-LINE DIAGRAM, & PANEL SCHEDULE	NONE
E2.1	LIGHTING PLAN & SCHEDULES	1/8" = 1'-4
E3.1	POWER PLAN	1/8" = 1'-4

FIELD SET

PERMIT SUBMITTAL 1 DATE: 07-31-2020 RUSSELL DAVIDSON ARCHITECTURE + DESIGN

Spectral 🚳 Engineering

Consulting Engineers

stamp



CENT OUTH EL NEVADA COUNTY Y

CITY, CA 5-050-015 1 PLAN REVIEW#1 08-2020

SUBMITTED: SCALE DRAWN BY: CHECKED BY:

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

E0.1

(E)	PANEL 'LA'						Bus	Rating	(Amps):	100			*SEE NOTES BELOW FOR FURTHER	
Main:	100 AMPS								Volts:	208/120	V	1	INFORMATION AND PANEL OR	
Enclosur	SURFACE								Phase:	3		1	CIRCUIT REQUIREMENTS.	
									Wires:	4			CIRCUIT REQUIREMENTS.	
		NOTE	Load	Load	OC D	evice		00.0	Device	Load	Load	NOTE		
Ckt	Description		Туре	(KVA)	Amps	Poles	Phase	Amps	Poles	(KVA)	Туре		Description	Ckt
1	LIGHTING - ADMIN.	1	1	1.07	20	1	Α	20	1	1.05	1		LIGHTING - STORAGE	2
3	LIGHTING - ADMIN.	1	1	0.97	20	1	В	20	1	0.32	1		LIGHTING - MAINTENANCE	4
5	LIGHTING - ADMIN.	1	1	1.02	20	1	С	20	1	1.05	1	1	LIGHTING - KITCHEN	6
7	LIGHTING - OUTDOORS	1	1	0.60	20	1	Α	20	1	1.00	1	1	LIGHTING - STORAGE	8
9	LIGHTING - OUTDOORS	1	1	0.70	20	1	В	20	1	0.56	1		LIGHTING - LAUNDRY	10
11	LIGHTING - OUTDOORS	1	1	0.90	20	1	C	20	1	0.70	2	1	REFRIGERATOR	12
13	LIGHTING - OUTDOORS	1	1	0.50	20	1	Α	20	1	1.50	5	1	COFFEE MAKER	14
15	LIGHTING - OUTDOORS	1	1	0.60	20	1	В	20	1	1.50	5	1	MICROWAVE	16
17	TIME SWITCH 'TSA'	1	7	1.00	20	1	С	20	1	0.20	1	1	LIGHTING - OUTDOORS	18
19	WATER HEATER	1	7	1.80	20	1	Α	20	1	0.20	7	1	FIRE ALARM BELL	20
21	WATER HEATER	1	7	1.80	20	1	В	20	1	0.40	7	1	EXHAUST FAN	22
23	SPARE		-		20	1	С	20	1	0.90	2	2	RECEPTACLES	24
25	A/C - MEDICAL ROOM	1	4	1.50	20	2	A	20	1	0.90	2	2	RECEPTACLES - OFFICE	26
27	*	1	4	1.50	-		В	20	1	0.90	2	2	RECEPTACLES - OFFICE	28
29	SPACE	-	-			-	С			0.00	-	-	SPACE	30
31	SPACE				-	-	Α		-	0.00	-		SPACE	32
33	SPACE	-			-	-	В	-	-	0.00	-	-	SPACE	34
35	SPACE	-	-		-	-	С	-	-	0.00		-	SPACE	36
37	BATTERY CHARGER	1	7	1.00	20	1	Α	20	1	0.50	7	1	FUEL CONTROL PANEL	38
39	GENERATOR HEATER	1	7	1.50	20	1	В	30	2	1.50	7	1	GENERATOR HEATER	40
41	GENERATOR HEATER	1	7	1.50	20	1	С	-		1.50	7	1	•	42
				6.47	7.07	4.42		5.15	5.18	4.35				
				A	В	C		A	В	C				
	LOAD PER PHASE			A=	11.62	B=	12.25	C=	8.77					
OAD TY	PE (NUMBER)		0	1	2	3	4	5	6	7				
OAD TY	PE (DESCRIPTION)		P.Rm.L	Lighting	Receps	Motors	L. Mot.	Kitch	Elevator	Equip	Total			
TOTAL C	ONNECTED LOAD (KVA)		0.00	10.54	3.40	0.00	3.00	3.00	0.00	12.70	32.64			
DEMANU	MULTIPLIER:		1.00	1.25	formula*	1.00	1.25	0.65	1.00	1.00				
TOTAL D	ESIGN LOAD		0.00	13.18	3.40	0.00	3.75	1.95	0.00	12.70	34.98		KVA	
TOTAL A	MPS		0.0	36.6	9.4	0.0	10.4	5.4	0.0	35.3	97.2		AMPS	
				formula*	Type 2	(recepta	cles) for	mula is	as follows	: If the	Total Co	nnec	ted Load is greater than 10KVA,	
					Then the	e demar	d load is	((Con	nected Lo	ad - 10)	* .5) +10	, Els	se Demand Load equals Connected Load.	
NOTES:														
1	EXISTING CIRCUIT, EXISTING LOAD.													
2	EXISTING CIRCUIT, NEW LOAD ADDED.													
3	NEW CIRCUIT, NEW LOAD													

(N)	PANEL 'LT1'						Bus	Rating	(Amps):	100			*SEE NOTES BELOW FOR FURTHER	
Main:	100 AMPS]							Volts:	208/120	V		INFORMATION AND PANEL OR	
Enclosur	e.SURFACE	1,	\wedge						Phase:	3		1	CIRCUIT REQUIREMENTS.	
AIC	10,000 AMPS	BZ	17						Wires:	4			CINCOTT REGUINEMENTS.	
~~~	<del></del>	H	Load	Load	OC D	evice		00 0	evice	Load	Load	NOTE		
Ckt	Description	2	Type	(KVA)	Amps	Poles	Phase	Amps	Poles	(KVA)	Туре	2	Description	Ck
1	OVEN	1	5	3.30	40	2	A	-	-	0.00	-	-	SPACE	2
3	"	1	5	3.30	-	-	В	-	-	0.00	-	-	SPACE	4
5	LIGHTING	-	2	0.40	20	1	С		-	0.00	-	-	SPACE	6
7	SPACE	-	-		-	-	A	-	-	8.05	7	2	PANEL 'LT2' VIA 'UPS'	8
9	SPACE	-	-		-	-	В	-	-	8.53	7	2	•	10
11	SPACE	-	-			-	С	-	-	9.92	7	2		12
				3.30	3.30	0.40		8.05	8.53	9.92				
				Α	В	C		Α	В	C				
	LOAD PER PHASE			A=	11.35	B=	11.83	C=	10.32	-				
	'PE (NUMBER)		0	1	2	3	4	5	6	7				
	PE (DESCRIPTION)			Lighting					Elevator		Total			
	ONNECTED LOAD (KVA)		0.00	0.00	0.40	0.00	0.00	6.60	0.00	26.50	33.50			
	O MULTIPLIER:		1.00	1.25	formula*		1.25	0.65	1.00	1.00				
	ESIGN LOAD		0.00	0.00	0.40	0.00	0.00	4.29	0.00	26.50	31.19		KVA	
TOTAL A	MPS		0.0	0.0	1.1	0.0	0.0	11.9	0.0	73.6	86.7		AMPS	
				formula*									ted Load is greater than 10KVA,	
					Then the	e demar	nd load is	s ((Conn	ected Lo	ad - 10)	* .5) +10	), Et	se Demand Load equals Connected Load.	
NOTES:	1													
1	DEDICATED CIRCUIT.											-	1	
2	PROVIDE PANEL WITH FEED-THRU LUC	GS												
3														
4	PROVIDE LOCKING MECHANISM ON CIT	RCU	IT BREA	KER										

(N)	PANEL 'LT2' (ON 'UPS')						Bus	s Rating	(Amps):	100			*SEE NOTES BELOW FOR FURTHER	
Main:	100 AMPS	-	^							208/120	V	1	INFORMATION AND PANEL OR	
	e SURFACE	1	1						Phase:	3	-	-	CIRCUIT REQUIREMENTS.	
AIC	10,000 AMPS	12							Wires:	4		-		
		NOTE (	Load	Load		evice			Device	Load	Load	NOTE		
Ckt	Description		Type	(KVA)	Amps	Poles	Phase	Amps	Poles	(KVA)	Туре		Description	Ckt
1	MOTORIZED DOOR OPENER	1	7	0.50	20	1	A	20	1	0.48	7		DATA RACK #1 POWER (AT&T)	2
3	SPARE	-		0.00	20	1	В	20	1	0.48	7		DATA RACK #1 POWER (AT&T)	4
5	SPARE			0.00	20	1	С	20	1	1.87	7		DATA RACK #2 POWER (RADIO)	6
7	SPARE	-	-	0.00	20	1	Α	20	1	1.87	7		DATA RACK #2 POWER (RADIO)	8
9	RECEPT - DISPATCH CONSOLE #1	1	2	1.58	20	1	В	20	1	0.70	7		DATA RACK #3 POWER (DR)	10
11	RECEPT - DISPATCH CONSOLE #2	1	2	1.58	20	1	С	20	1	0.70	7		DATA RACK #3 POWER (DR)	12
13	RECEPT - DISPATCH CONSOLE #3	1	2	1.58	20	1	Α	20	1	0.48	7		DATA RACK #4 POWER	14
15	RECEPT - DISPATCH CONSOLE #4	1	2	1.58	20	1	В	20	1	0.48	7		DATA RACK #4 POWER	16
17	RECEPT - DISPATCH CONSOLE #5	1	2	1.58	20	1	C	20	1	0.48	7	1	DATA RACK #5 POWER	18
19	RECEPT - DISPATCH CONSOLE #6	1	2	1.76	20	1	Α	20	1	0.48	7	1	DATA RACK #5 POWER	20
21	RECEPTACLES - OFFICE	1	2	1.08	20	1	В	20	1	0.48	7	1	DATA RACK #6 POWER (IDF)	22
23	RECEPTACLES - OFFICE	1	2	1.08	20	1	C	20	1	0.48	7	1	DATA RACK #6 POWER (IDF)	24
25	SPACE		-	0.00	-		Α	20	1	0.36	2	1	RECEPTACLE - TELE BACKBOARD	26
27	SPACE	-	-	0.00	-	-	В	20	1	0.36	2	1	RECEPTACLE - TELE BACKBOARD	28
29	SPACE	-	-	0.00	-		С	20	1	0.36	2	1	RECEPTACLE - TELE BACKBOARD	30
31	SPACE		-	0.00	-	-	A	20	1	0.36	2	1	RECEPTACLE - TELE BACKBOARD	32
33	SPACE		-	0.00		-	В	20	1	0.36	2	-	RECEPTACLES - IT ROOM	34
35	SPACE		-	0.00		-	С	20	1	0.36	2	-	RECEPTACLES - IT ROOM	36
37	SPACE		-	0.00	-		A	20	1	0.18	2	-	RECEPTACLE - OUTDOORS	38
39	SPACE		141	0.00	-	-	В	20	2	1.43	4	-	HP-1 (OUTDOOR) & FC-1 (INDOOR)	40
41	SPACE		-	0.00			С			1.43	4		"	42
				3.84	4.24	4.24		4.21	4.29	5.68	-			
				Α	В	C		Α	В	C				
	LOAD PER PHAS	E		A=	8.05	B=	8.53	C=	9.92					
LOAD TY	PE (NUMBER)		0	1	2	3	4	5	6	7				
LOAD TY	PE (DESCRIPTION)		P.Rm.L	Lighting	Receps	Motors	L. Mot.	Kitch	Elevator	Equip	Total			
TOTAL C	ONNECTED LOAD (KVA)		0.00	0.00	14.16	0.00	2.86	0.00	0.00	9.48	26.50			
DEMAND	MULTIPLIER:		1.00	1.25	formula*	1.00	1.25	0.65	1.00	1.00				
TOTAL D	ESIGN LOAD		0.00	0.00	12.08	0.00	3.58	0.00	0.00	9.48	25.14		KVA	
TOTAL A	MPS		0.0	0.0	33.6	0.0	9.9	0.0	0.0	26.3	69.9		AMPS	
				formula*	Type 2	(recepta	icles) for	rmula is	as follow	s: If the	Total Co	nne	ted Load is greater than 10KVA,	
													se Demand Load equals Connected Load.	
NOTES:														
1	DEDICATED CIRCUIT.												1	
2													1	
3													1	

RUSSELL DAVIDSON ARCHITECTURE + DESIGN davidsonarch.com

Spectral Spectral Engineering
Electrical Consulting Engineers

CONTACT MEG L. HOBBS, PE, LEED AP

EMAIL meg hobbs@SPECTRALENGINEERING.COM
PHONE: 530-273-8701

stamp



NEVADA COUNTY YOUTH CENTER

TO STAND STAND

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

FIELD SET

**PANEL SCHEDULES** 

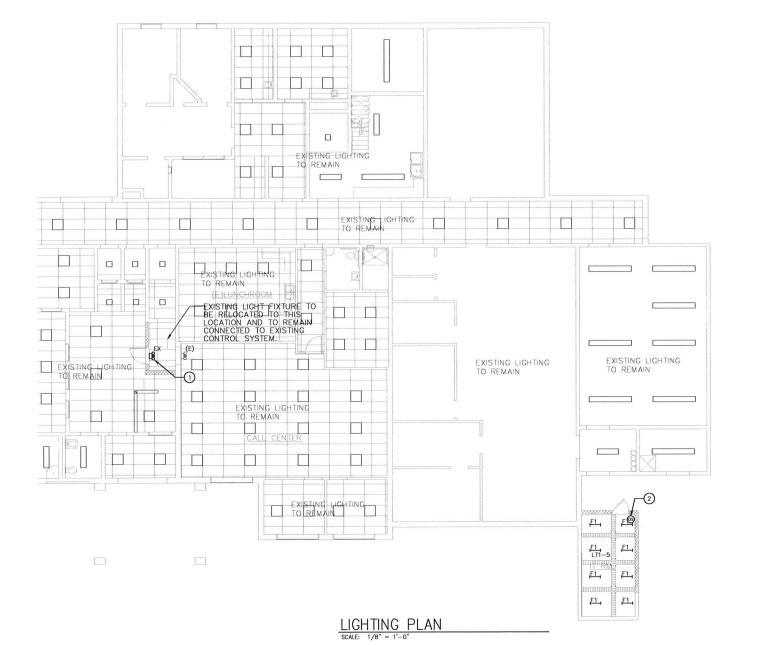
SUBMITTAL STAMP PERMIT SUBMITTAL 1 DATE: 07-31-2020

E0.2

			LIGHTING FIXTURE SCHEDULE	(7/8/2019)					
TYPE	DESCRIPTION	MANUF.	CATALOG#	LAMI	Р				
IYPE	DESCRIPTION	WANUF.	CATALOG#	TYPE	No.	WATTS	TYPE	MOUNTING	NOTES
F									
F1	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	SURFACE	IT ROOM
F2	NOT USED	LITHONIA	CDS-L48-MVOLT-DM-35K-80CRI-WH	3500K	1	38	0-10V LED DRIVER	SURFACE	NOT USED
X									
EX	EXIT SIGN, GREEN LETTERING, LED, WHITE HOUSING	LITHONIA	LHQM-LED-B-G-HO-RO	LED		-	-	PER PLANS	EGRESS PATHWAYS, DOORS

### NOTES:

- ALL LED FIXTURES TO BE PROVIDED WITH NO LESS THAN A 5-YEAR WARRANTY
- B. 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.
- D. 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



### **(1)** SHEET NOTES

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

RUSSELL DAVIDSON ARCHITECTURE + DESIGN

## Spectral Spectral Engineering

Consulting Engineers

CONTACT: MEG L, HOBBS, PE, LEED AP

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stamp



### GENERAL NOTES

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

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

NEVADA COUNTY YOUTH CENTER DISPATCH REMODEL

ID NAME DATE

1 PLAN REVIEW#1 08-20

SUBMITTED: 02-01-2020
SCALE AS NOTED

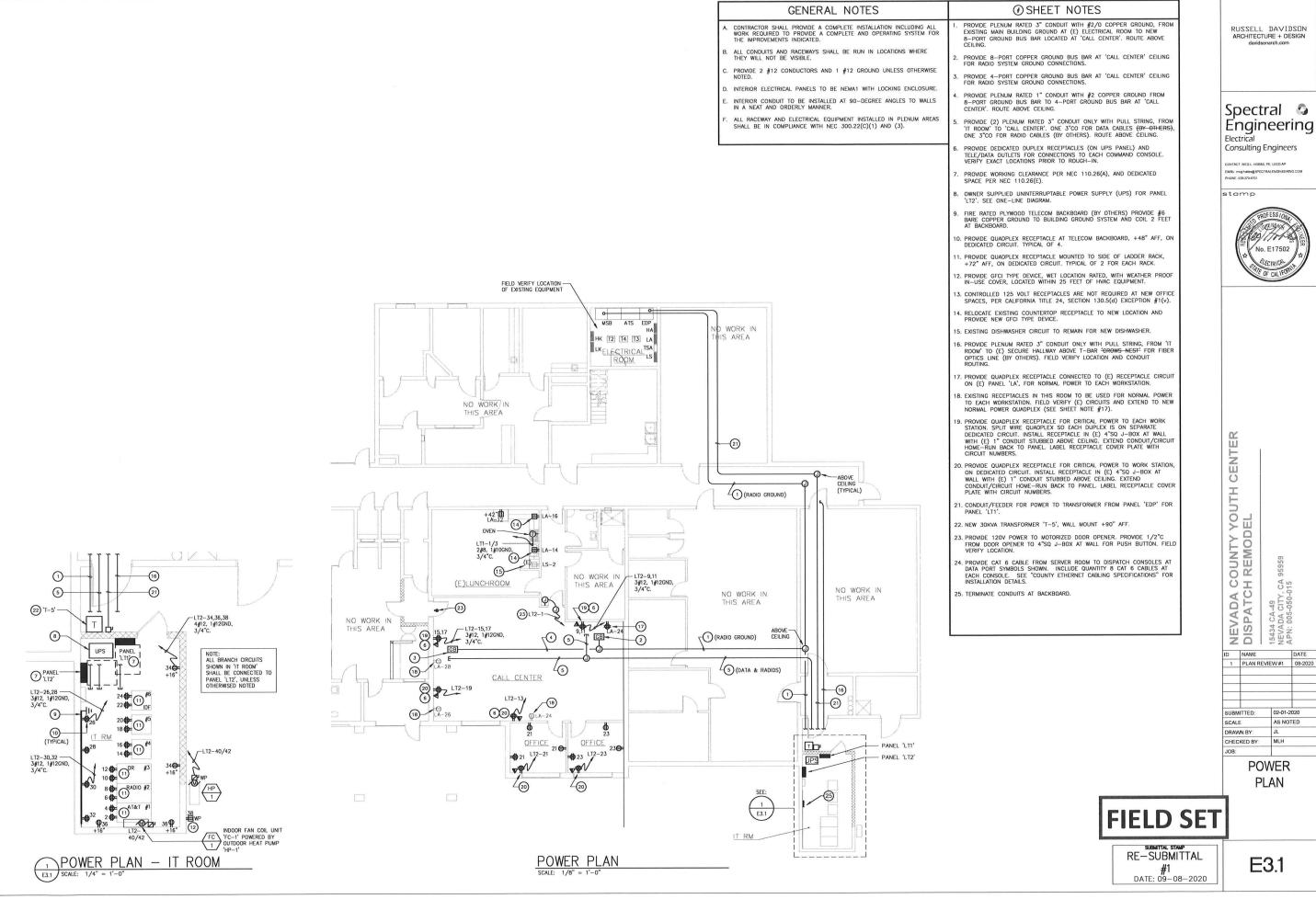
DRAWN BY: JL

CHECKED BY: MLH

FIELD SET PLAN

RE—SUBMITTAL
#1
DATE: 09-08-2020

E2.1



### Spectral 👶 Engineering



Project Name: DISF	PLIANCE									NRCC-LTI
	PATCH REMOD	EL			Report Page:				1	7/1/20:
Project Address: NEV	ADA CITY, CA				Date Prepared:					//1/20.
Table Instructions: Ple must be completed. T	ease include lig the lighting con	hting controls for conditio trals section of the Compl	ned and unconditi iance Summary To	ioned spaces in able on the first	this table. When a page will show "D	n option having a DES NOT COMPLY	* is selected, th " if the notes ar	he notes sect re left blank.	tion of th	is table
<b>Building Level Contro</b>	ıls									
		01				02				13
	Mandatory	Demand Response				Off Controls				spector
	51	10.12(c)				130.1(c)			Pass	Fail
Area Level Controls										
04		05	06	07	08	09	10	11	_	12
Area Description		uilding or Area Category ary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Systems §140.6(a)	Field	Inspecto Fail
										In
IT EQUIP.RM  NOTES: Controls with		her Space Types note in the space below 6	Manual ON/ OFF explaining how cor	Exempt*	Occ. Sensor eved.	Exempt*	Exempt*	13		
NOTES: Controls with	h a * require a nary/Skylight I	note in the space below e Daylighting: Exempt becau	OFF explaining how cor	npliance is achi	eved.				1	
*NOTES: Controls wit EX: Conference 1: Print EXCEPTION 1 to §130.	h a * require a mary/Skylight I .1(d)2	note in the space below e Daylighting: Exempt becau	OFF explaining how cor	npliance is achi	eved.		1		1	
*NOTES: Controls with EX: Conference 1: Prin EXCEPTION 1 to \$130. IT EQUIP.RM II. LIGHTING POWEI Table Instructions: Co allowances per \$140.	h a * require a nary/Skylight is 1/d)2  NO DAYLIT A  R ALLOWANCE of the state of th	note in the space below e Daylighting: Exempt becau	OFF explaining how cor use less than 120 w  G OR AREA CATE g using the Comple	npliance is achi votts of general	leved. lighting;	P	lan Sheet Show	ving Daylit Z	ones:	wer
*NOTES: Controls wit EX: Conference 1: Pidi EXECEPTION 1 to §130. IT EQUIP.RM  II. LIGHTING POWER  II. LIGHTING POWER  II. LIGHTING POWER  III. LIGHTING	h a * require a nary/Skylight is 1/d)2  NO DAYLIT A  R ALLOWANCE of the state of th	note in the space below a Daylighting: Exempt because REAS  E: COMPLETE BUILDING the for each area complying the foreign the complying the foreign the complying the complete states the complete the complete states the	OFF explaining how core see less than 120 w  S OR AREA CATE g using the Completing used.	npliance is achi votts of general	leved.  lighting;  DDS  Area Category Me	P whods per §140.6(b	llan Sheet Show	ving Daylit Z	ones:	
*NOTES: Controls wit EX: Conference 1: Print EXCEPTION 1 to \$130 IT EQUIP.RM  I. LIGHTING POWER Table instructions: Co allowances per \$140. Conditioned Spaces	h a * require a mary/Skylight l. 1(d)2. NO DAYUT A RALLOWANC mplete the tot 6(c) or adjustn	note in the space below e Doylighting: Exempt becau REAS  E: COMPLETE BUILDING the for each area complyin ents per \$140.6(a) are be  Complete B	OFF explaining how cor see less than 120 w  G OR AREA CATE g using the Compling used.  02 uilding or Area Ca	mpliance is achi vatts of general GORY METHO ete Building or a	leved. lighting;	P P S 140 6 E P P P P P P P P P P P P P P P P P P	lan Sheet Show	ving Daylit Zondering Daylit	ones:	ances /
*NOTES: Controls wit EX: Conference 1: Pidi EXECEPTION 1 to §130. IT EQUIP.RM  II. LIGHTING POWER  II. LIGHTING POWER  II. LIGHTING POWER  III. LIGHTING	h a * require a mary/Skylight l. 1(d)2. NO DAYUT A RALLOWANC mplete the tot 6(c) or adjustn	note in the space below e Doylighting: Exempt becau REAS  E: COMPLETE BUILDING the for each area complyin ents per \$140.6(a) are be  Complete B	OFF explaining how core see less than 120 w  G OR AREA CATE g using the Comple ing used.	mpliance is achi vatts of general GORY METHO ete Building or a	DDS Area Category Me  03 Allowed	04 Area 1671	o). Indicate if o	ving Daylit Zondering Daylit	ones:  Of and Allow djustment	ances /
*NOTES: Controls wit EX: Conference 1: Print EXCEPTION 1 to \$130 IT EQUIP.RM  I. LIGHTING POWER Table instructions: Co allowances per \$140. Conditioned Spaces	h a * require a mary/Skylight l. 1(d)2. NO DAYUT A RALLOWANC mplete the tot 6(c) or adjustn	note in the space below e Doylighting: Exempt becau REAS  E: COMPLETE BUILDING the for each area complyin ents per \$140.6(a) are be  Complete B	OFF explaining how cor see less than 120 w  G OR AREA CATE g using the Compling used.  02 uilding or Area Ca ary Function Area	mpliance is achi vatts of general GGORY METHO ete Building or a	DDS Area Category Me  03 Allowec Density	04 Area 1671	o). Indicate if o	dditional ligi  Addition	ones:  Of and Allow djustment	ances /
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	reated 01/20)						CA	ALIFORNIA ENERGY C		No.
	E OF COMPLIANCE				la					CC-LTI-E
	ne: DISPATCH REMODEL Iress: NEVADA CITY, CA				Report Page: Date Prepared					/1/2020
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	oor Lighting Controls Permit Applica EQUIP.RM F AREAS	ant Notes:								
. ADDITIO	ONAL REMARKS									0
his table is	ncludes remarks made by the permit	applicant to the	e Authority Havin	Jurisdiction.						-
. INDOO	R LIGHTING FIXTURE SCHEDULE	//	(#C. D. U.S. S. S. S. S.	HULES			**************************************		3.27.6	- 60
able Instru	R LIGHTING FIXTURE SCHEDULE uctions: Include all permanent desig Vattage: Conditioned Spaces 02	ned lighting and	all portable light	ing in offices.	06	07	08	09	1	0
Oesigned V 01 Name or	uctions: Include all permanent desig Vattage: Conditioned Spaces	03 Modular	04 Small Aperture	05 Watts per	How Wattage is	Total number	Exempt per	09 Design Watts	Field In	spector
oble Instru Designed V 01 Name or Item Tag	uctions: Include all permanent design Vattage: Conditioned Spaces 02 Complete Luminaire Description	03 Modular (Track) Fixture	04	05 Watts per luminaire ²	How Wattage is determined	Total number luminaires		Design Watts		
Oesigned V 01 Name or	uctions: Include all permanent desig Vattage: Conditioned Spaces 02	03 Modular	04 Small Aperture	05 Watts per	How Wattage is determined Mfr. Spec ²	Total number luminaires	Exempt per 5140.6(a)3	Design Watts	Field In	spector
Oesigned V 01 Name or Item Tag F1	uctions: Include all permanent designations: Include all permanent designation of the second of the	03 Modular (Track) Fixture	04 Small Aperture & Color Change'	05 Watts per luminaire ² 21	How Wattage is determined Mfr. Spec ² Total Designer	Total number luminaires 8 d Watts CONDIT	Exempt per §140.6(a)3	Design Watts 168 168	Field In:	Fail
Designed V  O1  Name or Item Tag  F1  FOOTNOT makes this Authority	uctions: Include all permanent design Vattage: Conditioned Spaces 02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change ¹	05 Watts per luminaire ² 21 ich qualify per olumn 05.	How Wattage is determined  Mfr. Spec ² Total Designed  r §140.6[a]48 is add	Total number luminaires  8 d Watts CONDIT	Exempt per §140.6(a)3  CONED SPACES:	Design Watts  168  168  wattage. Table I	Pass	Fail
FOOTNOT nakes this Authority uminalre, i	uctions: Include all permanent designations: Include all permanent designations are conditioned Spaces of Complete Luminaire Description  LED STRIP  E: Design Watts for small operture adjustment, the permit applicant showing purisdiction may salk for the Annying purisdiction may salk for the source of the conditions and sale of the conditions of the conditions and sale of the conditions are sale of the conditions and sale of the conditions are sale	03 Modular (Track) Fixture	04 Small Aperture & Color Change ¹	05 Watts per luminaire ² 21 ich qualify per olumn 05.	How Wattage is determined  Mfr. Spec ² Total Designed  r §140.6[a]48 is add	Total number luminaires  8 d Watts CONDIT	Exempt per §140.6(a)3  CONED SPACES:	Design Watts  168  168  wattage. Table I	Pass	Fail
Toble Instruction of the Control of	uctions: Include all permonent designations: Include all permonent designations of the conditioned Spaces  Complete Luminaire Description  LED STRIP  E: Design Watts for small operture adjustment, the permit applicant shiftening parisfiction may ask for Lumot the lump.	03 Modular (Track) Fixture	04 Small Aperture & Color Change ¹	05 Watts per luminaire ² 21 ich qualify per olumn 05.	How Wattage is determined  Mfr. Spec ² Total Designed  r §140.6[a]48 is add	Total number luminaires  8 d Watts CONDIT	Exempt per §140.6(a)3  CONED SPACES:	Design Watts  168  168  wattage. Table I	Pass	Fail
Proof North Market State Section 1	uctions: Include all permanent designations: Include all permanent designations of the complete Luminaire Description  LED STRIP  E: Design Watts for small operture adjustment, the permit applicant showing airclaim of the lamb of the lamb.  LAR LIGHTING SYSTEMS	03 Modular (Track) Fixture  and color changing out of enter full religions out sheet	04 Small Aperture & Color Change ¹	05 Watts per luminaire ² 21 ich qualify per olumn 05.	How Wattage is determined  Mfr. Spec ² Total Designed  r §140.6[a]48 is add	Total number luminaires  8 d Watts CONDIT	Exempt per §140.6(a)3  CONED SPACES:	Design Watts  168  168  wattage. Table I	Pass	Fail
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CERTIFICATE OF C							-					RGY CON	NRCC-LTI-
This document is		trate compliance	with requiremen	nts in §110.9. §.	110	0.12(c), §130.0, §.	13	0.1, §140.6, and	d §141.0(b)2 for	inc	loor lighting scop	es using	the
prescriptive path.													
Project Name:	DISPATCH REM	DDEL				Rep	por	t Page:					Page 1 of
Project Address:	NEVADA CITY, C	A				Date	te f	repared:					7/1/20
A. GENERAL INF	ORMATION				98		34		A CONTRACTOR	218		3/2	
01 Project Loca	tion (city)		NEVA	DA CITY		04 Total Co	Con	ditioned Floor	Area (ft²)		2	35	
02 Climate Zoni	2		1	11		05 Total U	Jnc	onditioned Flor	or Area (ft ² )			0	
03 Occupancy T	vpes Within Pro	ject (select all th	hat apply):		-	06 # of Sto	orie	es (Habitable Al	bove Grade)			1	
√ Office	Г	] Retail		Warehouse	-	Hotel/	/M	otel	School		Supp	ort Area	35
Parking Ga	rage	High-Rise Res	idential 🔲	Relocatable		☐ Health	hca	ere [	Other (write	in):			
B. PROJECT SCO	PF			CSW argues	59		1370	NEW PRES	51536688	133			
Table Instructions §140.6 or §141.00 calculation metho	b)2 for alteration	ns. WARNING:	Changing the Cal	scope of the pe culation Metho	ern d it	nt application and this table will re	esu	ire demonstrati It in the deletio	ng compliance i n of data previo	ush	y input. If you ne	ed to ch	ange the
edicolorion memo		of Work				Conditioned 9	Spa	aces			Unconditioned	Spaces	
	Scope												
	Scope	O1				02		03			04		05
MvI		01	t apply):	Ca	lcu	02 lation Method	_		2) Ca	lcu	04 lation Method	+	O5 Area (ft ² )
	roject Consists		t apply):		_		_	03 Area (ft		_		+	
My I	roject Consists	01	t apply):		_	lation Method	_	Area (ft		_	lation Method	1	Area (ft²)
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✓ New Lighting	roject Consists System	01 of (check all tha	t apply): tal Area of Work		_	lation Method		Area (ft		_	lation Method		Area (ft²)
New Lighting	Project Consists System ing System	01 of (check all tha			_	lation Method ea Category		Area (ft		_	lation Method plete Building		Area (ft²) 0
New Lighting  Altered Light  C. COMPLIANCE	Project Consists System ing System	01 of (check all that To	tal Area of Work	(ft²)	Are	lation Method ea Category	Con	Area (ft 235	C	om	lation Method plete Building		Area (ft²) 0
New Lighting	Project Consists System ing System	O1 of (check all that  Tot  his table says "D	tal Area of Work	(ft²)	ES	lation Method ea Category	Cor	Area (ft 235	to Table D. for g	uide	lation Method plete Building  0	Comp	Area (ft²) 0
New Lighting  Altered Light  C. COMPLIANCE	roject Consists System ing System  RESULTS : If any cell on t	01 of (check all that  Tot  his table says "D  Allowed Light	tal Area of Work OES NOT COMPL Ling Power per §	(ft²)	ES	lation Method ea Category	Cor	Area (ft 235	C	uide	lation Method plete Building  0	Comp	Area (ft²) 0
Altered Light  C. COMPLIANCE Table Instructions Lighting in conditioned and	Project Consists System ing System	O1 of (check all that  Tot  his table says "D	tal Area of Work  OES NOT COMPL  ting Power per §	(ft²) LY" or "COMPLIE 140.6(b) (Watte	ES	lation Method ea Category  235 with Exceptional C	Con	Area (ft 235	to Table D. for g	uide	lation Method plete Building  0  ance. 0.6(a) (Watts)	Comp	Area (ft²) 0
Altered Light  C. COMPLIANCE Table Instructions Lighting in conditioned and unconditioned	roject Consists System ing System  RESULTS : If any cell on t	01 of (check all that  Tot  his table says "D  Allowed Light	tal Area of Work  OES NOT COMPL ting Power per §  03  Area Category	(ft²) LY" or "COMPLIE 140.6(b) (Watte	ES	lation Method ea Category  235 with Exceptional C	Con	Area (ft 235	to Table D. for g	uide	lation Method plete Building  0  ance. 0.6(a) (Watts)	Comp	Area (ft²) 0
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New Lighting     Altered Light      Altered Light      C. COMPLIANCE  Table Instructions     Lighting in conditioned and unconditioned spaces must not be combined for	roject Consists System ing System  RESULTS If any cell on t  01  Complete Building	01 of (check all that  Tot  his table says "D  Allowed Light  02  Area Category	tal Area of Work  OES NOT COMPL ting Power per § 03  Area Category Additional \$140.5(12)5	(ft ² )  LY" or "COMPUE 140.6(b) (Watte 04  Tailored §140.6(c)3	ES	ation Method ea Category  235  with Exceptional Control Control Control Allowed	Con	Area (ft: 235  anditions* refer t Adjusted Ligh 06  Total Designed	to Table D. for graing Power per 07 Adjustments PAF Control Credits \$140.6(a)2	uide	lation Method plete Building  0  once.  0.6(a) (Watts)  08  Total Adjusted (Watts) *Includes		Area (ft²) 0 0 oliance Resul 09
New Lighting     Altered Light     Altered Light     C. COMPLIANCE     Table Instructions     Lighting in     conditioned and unconditioned spaces must not be combined for     compliance per     compl	roject Consists System ing System  RESULTS If any cell on t 01  Complete Building §140.6(c)1	01 of {check all that  Tot  Allowed Light  02  Area Category \$140.6[c]2	tal Area of Work  OES NOT COMPI ting Power per § 03  Area Category Additional §140.5(c)2G (+)	(ft²)  Y" or "COMPLIE  140.6(b) (Watte  04  Tailored §140.6(c)3 (+)	ES	ation Method ea Category  235  with Exceptional Control Control Control Allowed	Con	Area (ft: 235  anditions" refer to Adjusted Light 06  Total Designed (Watts)	to Table D. for g ting Power per 07 Adjustments PAF Control Credits \$140.6(a)2 (-)	uide	lation Method plete Building  0  once.  0.6(a) (Watts)  08  Total Adjusted (Watts) *Includes	051	Area (ft²) 0 0 oliance Resul 09

Indoor Lighting				0
VMCC-ETI-E (Created 01/20)			CALIFORNI	A ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE				NRCC-LTI-I
Project Name: DISPATCH REMO		Report Page:		Page 6 of 6 7/1/202
Project Address: NEVADA CITY, C.	Α	Date Prepared:		7/1/2020
DOCUMENTATION AUTHOR'S	DECLARATION STATEMENT			
certify that this Certificate of Cor	mpliance documentation is accurate and co	mplete	2010 (11	
Occumentation Author Name:	MEG HOBBS	Documentation Author Sign	ature: //op/theha	
Company:	SPECTRAL ENGINEERING	Signature Date:	7/2/2020	
Address:	PO BOX 154	CEA/ HERS Certification Iden	ntification (if applicable):	NA
City/State/Zip:	CHICAGO PARK, CA 95712	Phone:	916-599-2439	
I am eligible under Division 3 or Compliance (responsible designs). The energy features and performer confile.  The building design features of compliance documents, works.	rmance specifications, materials, compone orm to the requirements of Title 24, Part 1 r system design features identified on this heets, calculations, plans and specification	ept responsibility for the building designents, and manufactured devices for the and Part 6 of the California Code of Re Certificate of Compliance are consistents submitted to the enforcement agency.	building design or system design gulations. It with the information provided y for approval with this building	on other applicable permit application.
2. I am eligible under Division 3 or Compilance (responsible design 1. The energy features and perfor Certificate of Compilance confi- i. The building design features or compilance documents, works 5. I will ensure that a completed to the enforcement agency for documentation the builder pro-	of the Business and Professions Code to acc ner) rmance specifications, materials, compone orm to the requirements of Title 24, Part 1 r system design features identified on this	rept responsibility for the building desli- ents, and manufactured devices for the and Part 6 of the California Code of Re Certificate of Compliance are consisten- is submitted to the enforcement agenc ce shall be made available with the bui at a completed signed copy of this Cert	building design or system design gulations. It with the information provided y for approval with this building iding permit(s) issued for the buil ificate of Compliance is required	identified on this on other applicable permit application. ilding, and made available
1. I am eligible under Division 3 compliance (responsible des).  The energy features and perfo Certificate of Compliance conf. The building design features or compliance documents, works.  I will ensure that a completed to the enforcement agency for documentation the builder processors are the proposible Designer Name:	of the Business and Professions Code to acc net) rmance specification, materials, compone orm to the requirements of Title 2d, Part 1, r system design features identified on this heets, calculations, plans and specification signed copy of this Certificate of Complian all applicable inspections, Lunderstand th voides to the building owner all occupancy.	rept responsibility for the building desli- ents, and manufactured devices for the and Part 6 of the California Code of Re Certificate of Compliance are consisten is submitted to the enforcement agenc- ce shall be made available with the buil at a completed signed copy of this Cert	building design or system design gulations. It with the information provided y for approval with this building iding permit(s) issued for the buil ificate of Compliance is required	identified on this on other applicable permit application. ilding, and made available
I. I am eligible under Division 3 compliance (responsible design. The energy features and perfo Certificate of Compliance confi. The building design features or compliance documents, works. I will ensure that a completed to the enforcement agency for documentation the builder processors of the processors of the complete of the comp	It the Business and Professions Code to acc net) rmance specifications, materials, composo own to the requirements of Title 24, Part 1 system design features identified on this heets, calculations, plans and specification signed copy of this Certificate of Constant signed copy of this Certificate of Constant all applicable inspections. I understand the vivides to the building owner at occupancy. MEG HOBBS	kept responsibility for the building designts, and manufactured devices for the and Part 6 of the California Code of Re Certificate of Compiliance are consistent submitted to the enforcement agence shall be made available with the catallation and completed signed copy of this Cert Responsible Designer Signat	building design or system design gulations. It with the information provided y for approval with this building iding permit(s) issued for the builficate of Compliance is required ture:	identified on this on other applicable permit application. ilding, and made available
I am eligible under Division 3 of Compliance (responsible designs). The energy features and performer of Compliance confectificate of Compliance confections of the building design features or compliance documents, works. I will ensure that a completed to the enforcement agency for	It the Business and Professions Code to access?  manes specifications, materials, compone mot the requirements of Title 24, Part 1 rystem design features identified on this heets, calculations, plans and specifications, plans and specification of the seed of	kept responsibility for the building designents, and manufactured devices for the and Part 6 of the California Code of Recrificate of Compiliance are consistent submitted to the enforcement agence shall be made available with the building to a completed signed copy of this Cert at a completed signed copy of this Cert Responsible Designer Signat Date Signed:	building design or system design gulations.  It with the information provided y for approval with this building iding permit(s) issued for the builficate of Compliance is required ture:	identified on this on other applicable permit application. ilding, and made available

Name		ATCH REMODEL Report Page:		Page 5 of 7/1/20
Addre	ess: NEV	ADA CITY, CA Date Prepared:		7/1/20
Addi	itional Rer	ctions have been made based on information provided in previous tables of this document. If any selection needs to be changed, p narks. These documents must be provided to the building inspector during construction and can be found anline at <a (attcp).="" <a="" a"="" be="" certification="" for="" form="" href="https://www.energy.co.gov/file24/attsp/providers.html" in="" incline="" information="" more="" must="" name="" provider="" the="" visit.="">https://www.energy.co.gov/file24/attsp/providers.html</a> <td>lease exploir</td> <td>why in through o</td>	lease exploir	why in through o
truc Addi	ATION OF tions: Sele itional Rei Test Techn	NRCLTI 06 E - Must be submitted for additional waitage installed in a video conferencing studio to be recognized for compliance.  FEQUIRED CERTIFICATES OF ACCEPTANCE  rections have been made based on information provided in previous tables of this document. If any selection needs to be changed, provides to the building inspector during construction and any with "A" in the form name must be incline Certification Provider (ATTCP). For more information with http://www.energy.co.gov/frite24/attss/foronslers.html  Form/Title	lease explair e completed Field In	why in through e
Addi	ATION OF	RRC1.T1.06 E. Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.  REQUIRED CERTIFICATES OF ACCEPTANCE  REQUIRED CERTIFICATES OF ACCEPTANCE  Rections have been made bosed on information provided in previous tables of this document. If any selection needs to be changed, prorists. These documents must be provided to the building inspects during construction and any with "A" in the form name must be incident Certification Provider (ATTCP). For more information with this Theorem certain to a good/fire? 24/cstts/providers. Intel  Form/Title  NRCA-LTI-02.A - Must be submitted for occupancy sensors and automatic time switch controls.	lease exploir e completed Field In	why in through o
Addi nce T	ATION OF tions: Sele titional Res Test Techn	NRCL LTI OS E - Must be submitted for additional waitage installed in a video conferencing studio to be recognized for compliance.  REQUIRED CERTIFICATES OF ACCEPTANCE  rectans have been made based on information provided in previous tables of this document. If any selection needs to be changed, p marks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be iclen Certification Provider (ATTCP). For more information visit: <a href="https://www.energy.co.gov/fule24/attss/feroviders.html">https://www.energy.co.gov/fule24/attss/feroviders.html</a> NRCA-LTI-02.A - Must be submitted for occupancy sensors and automatic time switch controls.  NRCA-LTI-03 A - Must be submitted for automatic daylight controls.	lease explaine completed Field In	why in through of spector

Indoor Lighting		
NRCC-LTI-E (Created 01/20)	CALIFORNIA ENERG'	Y COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: DISPATCH REMODEL	Report Page:	Page 4 of 6
Project Address: NEVADA CITY, CA	Date Prepared:	7/1/2020
I. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD C	UALIFYING LIGHTING SYSTEM	9
This Section Does Not Apply		
K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE		0
This Section Does Not Apply		
L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY		0
This Section Does Not Apply		
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TAS	K LIGHTING	0
This Section Does Not Apply		
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/S	PECIAL EFFECTS	0
This Section Does Not Apply		
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE	MERCHANDISE	0
This Section Does Not Apply		
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJU	STMENT FACTOR (PAF))	0
This Section Does Not Apply		
Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS		9
This Section Does Not Apply		
R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTION	NS	0
This Section Does Not Apply		
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)		9
This Section Does Not Apply		
T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	CONTRACTOR	0
		January 2020

NOTE: QUANTITIES OF LIGHT FIXTURES OR OTHER DEVICES SHOWN IN THESE FORMS SHALL NOT BE USED FOR BIDDING PURPOSES.

FIELD SET

SUBMITAL STAMP
RE—SUBMITTAL
#1
DATE: 09—08—2020

RUSSELL DAVIDSON ARCHITECTURE + DESIGN davidsonarch.com

Spectral Spectral Engineering
Electrical
Consulting Engineers

CONTACT: NEG L, HOBBS, PE, LEED AP

EMAIL: nieg hobbs@SPECTRALENGINEERING.COM
PHONE: 530-273-8701

stamp



DISPATCH REMODEL

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

> TITLE 24 LIGHTING

E5.1

Project Name:	Nevada Cour	ty Juvinile Hal	Server /	Addition			NR	ICC-PRF-01	E	Page 5	of 13				
Project Address:	15434 Hwy. 4	9 Nevada City	95959				Ca	(culation Da	te/Time:	15.12,	Fri, Mar 13	2020			
Input File Name:	Nevada Cour	ty Juvinile Hal	Server A	Addition - 20025	clbd19e										
K1. Dry System Eq	ulament thurner	s air bandli	ne conits	heat numns	URE et	1	-		_		-				_
, .,	,	.,		ry System Equip			per info	included b	elow in Ta	ble N)					_
1	2		3	4		5		6		- 1		8		9	10
							Heatir	4					Coolin	8	10
Equipment Name	Equipme	nt Type	QIY	Total Heating ( (kBtu/h)		Supp Heat So (Y/N)	urce	Supp Heat (kBtu		Effici	ency	Total Co Output (k		Efficiency	Status*
Server3	Exhaust	(NA)	1	0		No.		0		N	A	0		NA	N
HVAC	MiniSplitHP (	Exhaust (NA)   1   0				Yes		10		HSPF	8 200	15		SEER-14.000 / EER-11.700	N
Status N - New A - Atten	ed E-Embeg														
KZ. ECONOMIZER	P CAN EVETEME	CIILANA DV A	140.41				_			-	-				_
1	1 2	1 A I	4	5	6	7	_	8	9		10	1	11	12	1
	System Type	Design OA	_	Su	poly Fan					Ret	urn Fan				1
Name or Item Tag	packaged, DOAS, etc.	CFM	CFM	8HP	Watt	Contr	rof	CFM	BH		Watts	Co	introl	Economizer Ty (If present)	
HVAC	MiniSplitHP	0	547	0.032	27.9	Constanti	lolume	NA.	NA		NA		NA.	NA.	- 0
Status N - New, A - After	ed t - timber					-									
KR. FYHAUST FAN							_								_
K3. EXHAUST FAN	SUMMARY			2		T a T	_	4	5		6			7	
System	n 10	-	Zone	e Name		Qty	_	M	Motor	SHP	Motor V	Vatts	Total Sta	etic Pressure (In	H20)
Servi				lerver		1		10	0.01		14.0			2.20	
							-								
K4. Wet System E	quipment (boiler								,		_				
1		2	1	4		5		6	-	7		9	10	11	12
Name or Ite	m Tag	pulpment Type	9	ty Vol (gal)		Capacity tu/h)	Eff	Iclency	Stand	by Loss	Qty	GPM	mps HP	VSD (Y/N)	Status*

Project Name:	Nevada County Juvinile Half	Server A	ddition	NRCC-PRF-01-E	Page 9 of 13		
Project Address:	15434 Hwy. 49 Nevada City :	95959		Calculation Date/Time:	15.12, Fr., Mar 13, 2020		
Input File Name:	Nevada County Juvinile Hall	Server A	ddition	1 - 20025.cibd19x			
O. DECLARATION	OF REQUIRED CERTIFICATES OF	INSTA	LLATIC	DN .			_
compliance. These	documents bust be retained as	nd prov	ided to	Author to indicate which Certificates of Installation mo the building inspector during construction and can be plance_documents/Nonresldential_Documents/NACS	found online at:		
	ilding Component	YES	NO	Form/Ti	4-		eld ector
60	soing Component	1163	mo.	rang.		Pass	Fall
	Covered Process		8	NRCI-PRC-01-E - Must be submitted for all Refrigerated Wa	rehouses		D
Table Instructions		cumer	tation	t  Author to indicate which Certificates of Acceptance m j inspector during construction and must be completed			_
	For more information visit heta	dien	w ener	gy ca.gov/title21/2019standards/2019_compliance_d	ocuments/Nonresidential_Documents/NRCA/		eld
Provider (ATTCP).							
Provider (ATTCP).	ilding Component	YES	NO	Form/Ti	tle	Insp	ector
Provider (ATTCP).		YES	NO	Form/Ti	tle		Fail
Provider (ATTCP).		YES	NO	Form/Til NRCA ENV 02-F - NRFC label verification for fenestration	tle		

Project Name:	Nevada County Juvinile Hall Server Addition	NRCC-PRF-01-E		Page 13 of 13			
Project Address:	15434 Hwy. 49 Nevada City 95959	Calculation Date	/Time	15:12, Fri, Mar 13, 2020			
Input File Name:	Nevada County Juvinile Hall Server Addition - 20025 a	bd19x					
DOCUMENTATION	AUTHOR'S DECLARATION STATEMENT § 10-103		-				
Documentation Aut	or Name: Chris Miller	Λ.					
Company: MELAS EX	Company: MELAS ENERGY ENGINEERING		Signature:				
Address: 547 Uren S	Signature Date: 2020-03	13					
City/State/Zip: Neva	CEA/ HERS Certification 606E-3177-3AC2-8FCD-4		tion (if applicable): 1-DDFF CAE4 CAC8 CC68-D2CF-D076-9F4F-E189-88EF-0001				
Phone: 530 265-249	2						
RESPONSIBLE PER	SON'S DECLARATION STATEMENT						
3 The energy feature of Title 24, Part 1 and 4. The building design plant and specificatio 5.1 will answer that a	Part E of the California Code of Regulations. Features or system design features identified on this Certificate of its submitted to the enforcement agency for approval with this but consolered sizered costs of this Certificate of Compliance shall be m.	ufactured devices for the building design or sy Compliance are consistent with the informacio ding permit application ide available with the building permits! issues	tern designs provided for the to	is identified on this Certificate of Compliance conform to the requireme t on other againstite compliance documents, worksheets, calculations, uisting, and muse available to the enforcement agency for all apolicable			
3 The energy feature of Title 24, Part 1 and 4. The building design plant and specificatio 5. I will ensure that a inspections, I underst	and performance specifications, materials, components, and mor Part B of the California Code of Regulations. Features or system design features identified on this Certificate of its submitted to the enforcement agency for approval with this built	ufactured devices for the building design or sy Compliance are consistent with the information drug permit application and available with the building permits! issued in required to be included with the documental or required to be included.	term designs provider for the british to the british t	is identified on this Certificate of Compliance conform to the requireme to in other againstife compliance documents, worksheets, calculations, uiding, and muoe waskable to the enforcement agency for all againstife uiding provides to the building owner at occupancy.			
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3 The energy feature of Title 24: Part 1 and 4. The building design plant and specificatio 5: I will ensure that a inspections. I underst Responsible Envelop	und genformunce psecifications, materials, components, and mon- fined of the California Carle of Regulations, for all the Carle of the Features or system design features scientified on this Certificate of a southwate to the informational pages, for agreed with the bid completed signed cays of this Certificate of Compliance shall be me and that a completer signed cays of this Certificate of Compliance and be to be supported to the Certificate of Compliance and the Certificate of Compliance with the Certificate of Compliance and Certificate of Compliance to Designer Name: Russell Davidson widdom Architecture & Design	ufactured devices for the building design or sy Compliance are consistent with the information drug permit application and available with the building permits! issued in required to be included with the documental or required to be included.	term designs provider for the british to the british t	is identified on this Certificate of Compliance conform to the requireme to in other againstife compliance documents, worksheets, calculations, uiding, and muoe waskable to the enforcement agency for all againstife uiding provides to the building owner at occupancy.			
3 The energy feature of Tiele 24, Part 1 and 4. The building design plant and specification 5. I will ensure that a inspections. I underst Responsible Envelop Company: Russell Di	und genformance proclications, materials, components, and muni- per for the california care of Regulations. For first of the California care of Regulations. For first or the Cartifactures, and the Cartifactures of Engine of the Cartifactures of Engineering and the Cartifactures of Compliance of Engineering Signed (only of this Cartifacture of Compliance on Designer Names: Russell Davidson nechitate care & Designer  Point Ct., Suite A.  Font Ct., Suite A.	ulastered devices for the building design or sy Compliance are consistent with the information day permit application de available with the building permits! assure in required to be included with the documenta Signature:	term design provider for the bition the biti	is identified on this Certificate of Compliance conform to the requireme to in other againstife compliance documents, worksheets, calculations, uiding, and muoe waskable to the enforcement agency for all againstife uiding provides to the building owner at occupancy.			
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3 The energy feature of 1 file 24, Pin 41 and 4. The buttong design plant and specific 5.1 will require the control of the con	and gendinance specifications instruction, prospective, and municipal and gendinance specifications are desired to provide a specification of the control of	utertund derwon for the kulleng dengen or for Comparison er occurren der 5th einformation der gewen seglekterin. Ge analbeit wich the bussing committel source required to be mikeful with the decumental Signatures: Date Signed. Dete Signatures: Signatures Täle: Signatures: NOT IN SCC Date Signad: Dectar prices Statement 1 Signatures: NOT IN SCC Date Signad: Dectar prices Statemenes 1 Dectar prices Statemenes 1	tem design provided for the to tion the to tion the to tion the to tion the to type:	quiched fair fair fair fair fair fair fair fair			

| Gaze Horbing | 0.00 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005

COMPUNION TOTAL PLUS MECHANISTICS CONFORMENTS

THORE. This last for user for decoursed compliance with programs OTHIR THAN Title 24 Fort 6, if applicable.

D. EXCEPTIONAL CONDITIONS

This prince includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options to perform the compliance scope options. The building must show compliance with all other applicable compliance scope options to perform the correspondence of personal performance or prescriptively before receiving.

L. HERS VERDICATION

This Section Does Not Apply

	Meyada County Juvinile Ha	l 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 Juvinile Hal	l Server Addition - 20025 cibd19x				
F. ADDITIONAL REMAR	iks					
This Section Does Not App	ply					
G. ENVELOPE GENERAL	INFORMATION					
1 Opaque Surfaces & Orientation		2	1		4	
		Total Gross Surface Area (ft²)	Total Fenestration A	rea (ft²)	Window to Wall Ratio (%)	
	North-Facing ¹	148 111		Oft?	00.	
	East-Facing?	230 ft ⁴		D ftr	00)	
	South Facing*	139 ft ²		Oft ²	00)	
	West Facing ⁴	269 ft ²		O fe ²	00	
	Total	786 ft ²		O ft ²	00.	
Roof		237 ft ²		O ft²	00)	
Notes: North-Facing is orient East-Facing is oriented South-Facing is orient	West Facing* Total  ded to within 45 degrees of to within 45 degrees of ed	269 ft ² 786 ft ²	(SE), but excluding 45°00' th (SW), but excluding 45	0 ft ² 0 ft ² 0 ft ² 0 ft ² 00°00" west of north 00" north of cast (NE	). (SE).	

I. FENESTRATION ASSEMBLY SU	MMARY §110.6							_
his Section Does Not Apply								
. ENVELOPE DETAILS §120.7 & §	140.3					100000000000000000000000000000000000000		
1. OPAQUE SURFACE ASSEMBLY SU	MMARY							
1	2	3	4	5	6	7	8	Ī
Surface Name	Surface Type	Description of Assembly Layers	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	I
Slab On Grade?	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = 80	237	NA.	0	NA.	f-Factor: 0.730	

1	2	3	4	5	6	7	8	9	10	11
DHW Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input (kBtu/h)	Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss Fraction	Heat Pump Type	Tank Location or Ambient Condition
Gas Storage 2	Gas	Storage	1	50.00	35	UEF: 0.58	NA NA	SBLF: NA	NA.	NA NA
L2. MULTI-FAMIC	CENTRAL DHW SYS	TEM DETAILS	-							
This Section Does N	lot Apply									
	ATER HEATING SUM									
		MART								
This Section Does N	iot Apply					-				
M. COVERED PRO	CESS SUMMARY §14	10.9								
This Section Does N	iot Apply									
N. INDOOR LIGHT	ING SUMMARY §14	0.6								
This Castion D	oes Not Apply									

Note 1 - Entering

L. DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY

compliance. These	documents must be pro-	vided to the b	uildin	Author to Indicate which Certificates of Acceptance must be submitted for the features to be recognize inspector during construction and must be completed through an Acceptance Test Technician Certifica yet as on/title 14/1013 Mandardy (2019), compliance, document ultiformsidential, Decumenty MRCA.	ed for otion		
	ding Component	VES	NO	Form/Title		eld ector	
1000	200000000000000000000000000000000000000			014400 009/CVII	Pass	Fail	
		ø		NRCA-MCH-02-A Dutdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	0		
		E3		NRCA-MCH-03-A Constant Volume Single Zone HVAC			
			(8)	NRCA-MCH-D4(a)-H Air Distribution Duct Leakage - HERS Verification required			
		D		NRCA-MCH-04(b)-A Air Distribution Duct Leakage - ATT only			
			60	NRCA-MCH-05-A Air Economizer Controls			
			Ø	NRCA-MCH 06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to \$120 II(s)); can vary outside ventilation flow rates based on maintaining interior carbon discoide (CO1) concentration setpons.	0	0	
			100	NRCA-MCH-07-A Supply Fan Variable Flow Controls			
			100	NRCA-MCH-08-A Valve Leakage Test			
	Mechanical		183	NRCA MCH-09-A Supply Water Temperature Reset Controls			
			50	NRCA MCH-10 A Hydronic System Variable Flow Controls			
		0	(8)	NRCA MCH-11-A Automatic Demand Shed Controls			
		0	60	NRCA MCH 12: A FDO for Packaged Direct Expansion Units			
			133	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance			
			83	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance			
			183	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance			
			8	NRCA-MCH-16-A Supply Air Temperature Reset Controls			
			0	NRCA-MCH-17-A Condenser Water Temperature Reset Controls			
			8	NRCA-MCH-18 Energy Management Control Systems			
			83	NRCA-MCH-19 Occupancy Sensor Controls	0	D	

Project Name:	Nevada County Juvin	ie Hall Server A	dditio	n	NRCC-PRF-01-E	Page 11 of 13		
Project Address:	15434 Hwy. 49 Nevao	a City 95959			Calculation Date/Time:	15.12, Fri, Mar 13, 2020		000
Input File Name:	Nevada County Juvin	le Hall Server A	ideltio	n - 20025 cibd19x				
P. DECLARATION C	F REQUIRED CERTIFICAT	ES OF ACCEP	TANC	E				
compliance. These	documents must be pro-	vided to the b	uildin	g inspector during constr	uction and must be completed	ust be submitted for the features to be re through an Acceptance Test Technician ocuments/Nunresidential_Gocuments/N	Certification	
	Iding Component	YES	YES NO Form/		Form/Ti	de		ield sector
Bui	Benong Component				Formyti	De .		Fait
			8	NRCA-LTI-02-A - Occupani	cy Sensors and Automatic Time Si	visch Controls		
Indoor Lighting			123	NRCA-LTI-03-A - Automati	NRCA-LTI-03-A - Automatic Daylight Controls			
			183	NRCA-LTI-04-A - Demand	NRCA LTI-04 A - Demand Responsive Lighting Controls			
		0	[3]	NRCA-LTI-05-A - Institutio	tor (PAF)			
0	lutdoor Lighting	(3)		NRCI-LTO-01-E - Must be:				
	Sign Lighting	60		NRCA-LTO-02-A - Outdoor Lighting Controls				
			8	NRCA PRC-01-F - Compressed Air Systems				
			Ø	NRCA-PRC-02-F - Kitchen Exhaust				
			123	NRCA-PRC-03-F - Garage I	NRCA-PRC-03-F - Garage Exhaust			
			83	NRCA-PRC-04 F - Refriger	ated Warehouse - Evaporator Fan	Motor Centrals		
	owered Process		133	NRCA PRC-05-F - Refriger	ated Warehouse - Evaporative Co	ndenser Controls		
	overed Process		(3)	NRCA-PRC-06-F - Refriger	ated Warehouse - Air Cooled Con	denser Controls	0	
			8	NRCA PRC-07-F - Refriger	ated Warehouse - Variable Speed	Compressor	0	0
			180	NRCA-PRC-08-F - Electrica	al Resistance Underslab Heating S	rstem		
			8	NRCA-PRC-15-F - Fume Hi	ood Automatic Sash Closures Syst	em		
			523	NRCA-PRC-16-A - Adiabat	ic Condensers			

Project Name:	Nevada County	Juvinile Hall Server Addit	tion N	RCC-PRF-01-E	Page 4	of 13			
Project Address:	15434 Hwy. 49	Nevada City 95959	c	skulation Date/Tire	e: 15.12, F	n, Mar 13, 20	20		
Input File Name:	Nevada County	Juvinile Hall Server Addi	tion - 20025.cibd19x						
I. ENVELOPE DETAIL	LS §120.7 & §140.	3							_
II. OPAQUE SURFACE	ASSEMBLY SUMMA	JAY .					W. W. W. W. W. W.		
1		2	3	4	5	6	7	8	9
Surface	Name	Surface Type	Description of Assembly Layers	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Status
R-19 Roof C	athedraf9	Roof	Asphalt shingles - 1/4 in. Vapor permisable (48: -1/8 in. Yapor permisable (48: -1/8 in. Piywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. more. Wood framed roof, 16in. OC, 7.25: 8:19 Gyptium Board - 1/2 in.	237	Wood	19	NA	U-Factor: 0.050	N
8 CMU Wall R-13 Furring11 ExteriorWall Wood fromed wall, 16in. OC, 3		Concrete - Part Grouted and Empty- Ib/ft3 - 8 in. Wood framed wall, 16in. OC, 3.5in., Gypsum Board - 1/2 in.	744	Wood	13	NA.	U-Factor: 0.085	N	
Status: N - Mew, A - Alteres	t, I - feating								_
12. OVERHANG DET	IAILS								
This Section Does Not	Apply								_

. OVERHANG DETAILS		
his Section Does Not Apply		
3. OPAQUE DOOR SUMMARY		
1	2	3
Assembly Name	Overall U factor	Status ¹
Insulated Metal Door15	0.500	N N

I. CRRC ROOFING PRODUCT SUMMARY \$140.3	
This Section Does Not Apply	
K. HVAC SYSTEM SUMMARY §110.1 & §110.2	

Project Name:	Nevada County Juvini	ie Half Server A	ddition		NRCC-PRF-01-E	Page 8 of 13			
roject Address:	15434 Hwy. 49 Nevad	a City 95959			Calculation Date/Time:	15:12, Fri, Mar 13, 2020			
nput File Name:	Neveda County Juvini	le Hall Server A	dditio	- 20025.cibd19x					
							_		
	OF REQUIRED CERTIFICA							_	
ompliance. These	documents bust be retai	ned and provi	ided to	Author to indicate which Certific the building inspector during co cliance documents/Nancesiden	onstruction and can be	ist be submitted for the features to be recognize found online at:	d for		
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Bull	<b>Building Component</b>		YES NO		Form/Tit	le .	-	ecto	
							1.000	Fall	
	Envelope	⊠		NRCI-ENV-01-E - Must be submitte	d for all buildings				
	Mechanical ☑ ☐ NRICE-MCH-01-E - Must be submitted for all buildings								
Plumbing		(⊠		NRCI-PLB 01-E - Must be submitted for all buildings					
			Ø	NRCI-PLB-02-E - Must be submitte systems to be recognized for comp		and horel/ motel central hot water distribution		C	
			8	NRCI-PLB-01-E - Must be submitte	d for all buildings				
			(⊗)	NRCI-PLB-21-E - Must be HERS ver	fied for central systems i	n high-rise residential hotel/ motel application			
			Ø	NRCLPLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application					
			Ø	NRCI 411-01-E - Must be submitted	for all buildings				
			0	NRCF4TI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance					
	ndoor Lighting		Ø	NRCL4TI-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.				0	
			89	NRCI-ITI-04-F - Must be submitted conference room, a multipurpose		ms serving an auditorium, a convention center, a recognized for compliance		С	
			83	NACI LTI 05 E - Must be submitted	for a Power Adjustment	Factor (PAF) to be recognized for compliance			
			(3)	NRCI ETI 06-E - Must be submitted recognized for compliance	for additional wattage is	stalled in a video conferencing studio to be			
	B 55.00	183		NRCI-LTO-01-E - Must be submitte	d for all buildings				
0	utdoor Lighting		180	NRCI-LTO-02-E - Must be submitte	d for EMCS Lighting Cont	rol system			
	Sign Lighting	0	80	NRCI-LTS-01-E - Must be submitted	for all buildings			E	
	Electrical	0	Ø	NRCI ELC 01-E - Must be submitte	d for all buildings			L	
	Photovoltaic	П	68	NRCI-SPV-01-E - Must be submitte	d for all buildings			I	

Project Name:	Nevada County Juvinile	Hall Server A	dditio	1	NRCC-PRF-01-E	NRCC-PRF-01-E Page 12 of 13			
Project Address:	15434 Hwy, 49 Nevada	City 95959			Calculation Date/Time:	15:12, Fri, Mar 13, 2020			
Input File Name:	Nevada County Juvinile	Hall Server A	dditio	- 20025 cibd19x					
Q. DECLARATION C	OF REQUIRED CERTIFICATE	S OF VERIF	KATH	IN .				_	
compliance. These	documents bust be retained	ed and prov	ided t	Author to indicate which Certifi the building inspector during o pliance_documents/Nonresiden	onstruction and can be		zed for		
Building Component		YES	NO		Form/Tnje			ield pector	
			10000				Pass	Fail	
			8	NRCV-MCH-04-H Duct Leakage Te	st.			0	
			100	NRCV MCH-24-H Enclosure Air Leukage				C	
	Mechanical	0	83	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation					
			0	NRCV-MCH-32-H Local Mechanical Exhaust					
Plumbing		0	⊠	NRCV-PLB-21-II - HERS verified central systems in high-rise residential, hotel/motel application			0	0	
			60	NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application				15	

FIELD SET

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	NC JUVENILE HALL DISPATCH	15434 CA-49	NEVADA CITY, CA	TITLE-24 ENERGY REPORT SERVER ROOM ADDITION MECHANICAL & ENVELOPE

License #: M26789

Plot Date:

Job # 20-025

Scale N/A

Issued By

Sheet Number T24-1

No. Date: By: Description:

	OF CALIFORN															
NRCC I	ENVE	•		Approach									CALIFOR	NIA	ENERGY COM	
This c	document	is used to	demon	strate compliance v	vith mandatory requir	ements in	5110.3	(g) o	nd §120.7(b) f	or newl	y constructed	buildings, and	\$141.0/6/1	for	alterations, rei	CC-ENV-E lated to
roof.	wall and I	floor asser	nblies, I	t is also used to der	nonstrate compliance ation and daylighting	with presi	criptive	requi	rements in 514	10.3 for	newly const	ructed buildings	, and <u>§141</u>	Q fo	r additions an	d
	ct Name: ct Address:			Ne	rvada County Juvinile Ha				ort Page: e Prepared:							ge 1 of 5) /13/2020
A. G	ENERAL I	NFORMA	TION													
		cation (cit	y)		Nevada City				es (Habitable A						1	
	Zipcode Climate Zo	one			95959 11				ditioned Floor conditioned Flo					_	0	
	Occupano	y Types W	ithin Pr	oject: (select all tha	t apply): If one occupa a, the entire building			T	Total Control	9990	NEWS ST	d space(s) > 5,0	00 ft² unde	***	nof with a ceil	ine
04	envelope i	may be de	signed	to comply with the	provisions of that occ	upancy (	08 🖾	heig	ht of at least 1	5 ft.1	uned enclose	d space(s) = 5,0	oon was		oor with a cen	
	per 5100.0 All Nonres	idential, in	ncluding	Relocatable Public	School Rela	ratable Pi	iblic Se	hool F	building for use	in .	High-Rise I	Residential	- Hotel/	Mot	el Guest Room	15
Ø.	Building to A/B/E/	ertified for F/H/M,	ruse in	one climate zone O		limate zon					Occupancy		Occup	ancy	: R-1	
FOC	OTNOTE: E	nclosed sp	ocases >	5,000 ft2 directly u	nder roof with ceiling socumented in Table I	height > 1	5 ft in	climat	e zones 2 thros	ugh 15 e	ore required	to meet the min	imum dayli	ghtir	ng requiremen	ts
			npnonce	with <u>\$150.5(7</u> is t	ocumented in tubic i	11/12/13 47/	e orny	prescr	prive requiren	DETA WIT	icii oppiies ti	DIRONONACIO	spaces.	_		
	ROJECT S table spec		ct envel	ope components wi	thin the permit applic	ation dem	onstra	ting c	ompliance usin	g the p	escriptive po	ths outlined in	£140.3, and	514	1.0(a)1 and	
5141	0(b)1 an	d 2 for add	ditions o	and alterations.	heck all that apply)	100000	OUT THE		1			Component T		0.00		2020627
				01								02			No.	Ta.
				Conditioned Space	directly under roof w	eth ceiling	height	> 156	-0	Roof			Fene		terior Doors	oors1
		of condition			directly brider roof w	nui cenng	neigni	713	6 0/00	Dane!			]		iterior Doors	
	☐ One or more enclosed spaces > 5,000 ft ⁻ directly under roof with ceiling height > 15ft ☐ Floors ☐ Fenestration/ Glazing Doors*															
Ø	10				firectly under roof wit	th ceiling h	eight :	15ft		SUPER	10	Walls Floors	1000		tion/ Glazing E	2000
	and I	ighting sys	tem ins	talled for the first t	me ss in area are conside		100	Yel.		g Mate		Village III	100000	sua	tion) diazing t	AUGIS .
700	INUIE: D	oors that	are moi	e than one-half gla	ss in area are conside	rea Giazea	DOORS	unu s	nouse be boca	menteu	Un toble K W	un fenestrounn				-
Regi	stration N.	imber:					Regist	ration	Date/Time:				Reg	istrat	ion Provider: En	ergySoft
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	ct Name: ct Address	8		N	evada County Juvinile Hu				te Prepared:							/13/2020
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		VCE RESU		tically calculated for	om data input and cal	rulations i	n Table	s F th	rough I. Note:	If any c	ell on this tab	le says "COMPI	IES with Ex	cent	ional Condition	s" refer
to To	ble D. Exc	eptional C	onditio	ns for guidance or s	ee the applicable tabl	e reference	ed belo	w.		,,						
2.0	Roof Asse	embly	Ro	Opaque Env ofing Materials	elope Components Walls	Floor	s	Т	Doors	Fen	estration	Daylighting S 5,000ft		•	ompliance Re	sults
	01			02	03	04	98.5	18	05	330	06	07	25.2.33		08	
100	(See Tab	ole F)	-	(See Table G)	(See Table H) Yes	(See Tat	ole I)	1 0	See Table I)	(See	Table K) Yes	(See Table	er)		COMPLIES	
0 5	VCENTIO	NAL CON	DITION	ıe				-								
					ecause of selections i	nade or de	ata ent	ered i.	n tables throug	hout th	e form.					
F. Al	DDITION	AL REMA	RKS				_							-		
				fe by the permit opp	olicant to the Authorit	y Having J	urisdic	tion.								
F. RO	OOF ASSI	EMBLY SC	HEDUI	.E				_						-		
				nis project.												
G. R	ATED RO	OFING M	ATERIA	AL (COOL ROOF)				_						_		
This	section do	oes not ap	ply to t	his project.												
H. W	VALL ASS	EMBLY SO	CHEDU	LE												
				once with prescripti r alterations.	ve wall assembly requ	irements i	in §140	3(a)2	and \$140 3(a	13 for r	new construc	tions or addition	ns, or mand	ctor	y wall assembl	У
		730700.000	11/2/19/19	ncluded in the proj	ect:1 Framed	☐ Mar	ss (new	only	Concrete	Sandwi	ch Panel (nev				ICF (new only)	
1 500	Street, Street				only)" do not have Ti								aw Bale is do have r		Log Home (nei	
click	ed above	and compl	liance d	emonstrated within	this table.	24,701	Lorequ	311.51111				CIT BITE GOOTION		-		
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CERT	IFICATE OF	COMPLIA	NCE					- In							N1	RCC-ENV-E
Proje	ect Name: ect Address	s:		N N	evada County Juvinile H	all Window 1543	Alterati 34 Hwy.	49 Da	te Prepared:							3/13/2020
		EMBLY S		LE his project.										_		-
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				ED DOOR SCHED		ements in	5140	1/015	for new coastr	uctions	or additions	or \$140.1fb12A	for alternt	ions	Exterior door	that are
mon	e than one	e-half glas	s in are	are considered Gl	ve fenestration require azed Doors and should	d be docum	nented	on th	is table with fe	nestrot	ion.	dishr	-	TI-		m c - 2 1
1 FO	OTNOTES:				led in the project:\ v only)" do not have T							kylights ion and additio			azed Doors (ne irements and s	
click	ed above	and comp	liance d	emonstrated within	this table.									- 1-		
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	03		8	Calculate Area	-Weighted Average V	for Vertic	al Fen		on ¹	(A)		negan.				
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Envelope Component Approach
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RESERVE Project Address:

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Project Address:

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NAVIGHT IN LABGE ENCLOSED SPACES

This section does not apply to this project.

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been mode based on information provided in this document. If any selection here been changed by the permit applicant, on explanations should be included in Table E Additional Remains. These documents must be provided to the building improved using construction and can be found online at https://www.encey.com/villed-4/2019/standards/2019, compliance, documents/Nonresidential_Documents/NRCV

Yes No No Note: No. 1. - Must be submitted for all buildings

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been mode based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide on explanation in Table E Additional Remains. These documents must be provided to the building inspector during construction and can be found online at https://www.encey.com/villed-4/2019/standards/2019_compliance_documents/Nonresidential_Documents/NRCV

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been mode based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide on explanation in Table E Additional Remains. These documents must be provided to the building inspector during construction and can be found online at https://www.encey.com/villed-4/2019/standards/2019_compliance_documents/Nonresidential_Documents/Nonresidential_Documents/Nonresidential_Documents/Nonresidential_Documents/Nonresidential_Documents/Nonresidential_Documents/Nonresidential_Documents/Nonresidential_Documents/Nonresidential_

Constant Commence And			
Envelope Component App	proacn	CALIFOR	NIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-ENV-E
Project Name:	Nevada County Juvinile Hall Window Alteration	Report Page:	(Page 5 of 5)
Project Address:	15434 Hwy. 45	Date Prepared:	3/13/2020
DOCUMENTATION AUTHOR'S DI	ECLARATION STATEMENT		
	ECLARATION STATEMENT	Propagation Author Sanstone / P.	
Documentation Author Name.	ECLARATION STATEMENT	Documentation Author Signature:	
Documentation Author Name. Chris Miller Company:	ECLARATION STATEMENT	Documentation Author Signature: Signature: Signature Date:	
Documentation Author Name. Chris Miller	ECLARATION STATEMENT	N	

/Sta	te/Zip	Phone:
vad	a City CA 95959	530 265-2492
SPO	ONSIBLE PERSON'S DECLARATION STATEMENT	
rtify	the following under penalty of perjury, under the laws of the State of California.	
1.	The information provided on this Certificate of Compliance is true and correct.	
2	I am eligible under Division 3 of the Business and Professions Code to accept respi	ionsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3.	of Title 24, Part 1 and Part 6 of the California Code of Regulations.	manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requir
4.	plans and specifications submitted to the enforcement agency for approval with ti	te of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculatio this building permit application.
5	I will ensure that a completed signed copy of this Certificate of Compliance shall be inspections. I understand that a completed signed copy of this Certificate of Comp	be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applica- pliance is required to be included with the documentation the builder provides to the building owner at occupancy.
	ible Designer Name: I Davidson	Responsible Designer Signature:
npar	ry: I Davidson Architecture & Design	Date Signed: 2020-03-13
ress	own Point Ct., Suite A	License:
9 Cr		

Registration Number: Registration Date/Time: Registration Providers EnergyFolf
CA Building Energy Efficiency Standards - 2019 Nonresidencial Compliance Report Versions 27018-0001 Report Generated - 2020-91-13 35:68-50
Subrem Versions rev 20150601





ENERGY 4 MECHANICAL CONSULTANTS 541 UREN STREET NEVADA CITY, CA 95959 PHONE (530) 265-2492 FAX (530) 265-2273



Report Generated: 2020-03-13 15:08:50

15434 CA-49 NEVADA CITY, CA TITLE-24 ENERGY REPORT DISPATCH & OFFICES WINDOW ALTERATION ENVELOPE NC JUVENILE HALL DISPATCH Revisions:
No. Date: By: Description: Plot Date: 20-025 Job# Scale Issued By N/A Sheet Number T24-2