

City of Santa Fe New Mexico

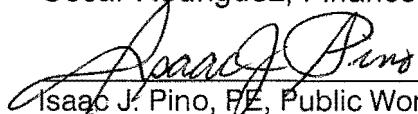
Public Works Dept. - Facilities Division



MEMO

DATE: October 16, 2015

TO: Public Works, CIP & Land Use Committee/Finance Committee/
City Council

VIA: Oscar Rodriguez, Finance Department Director



Isaac J. Pino, PE, Public Works Department Director
David Pfeifer, Facilities Division Director 
 Ron J. Vialpando, DSS Director

FROM: LeAnn S. Valdez, Facilities Division Project Administrator 

ISSUE: City of Santa Fe CIP #682A – City of Santa Fe Senior Centers
Improvements Project

Construction Services Agreement (Exhibit A)

- Request award of construction services scope to Cooperative Educational Services (CES)/AnchorBuilt, Inc. together with the associated AIA Agreement between Owner and Contractor (\$408,157.14 contract sum) inclusive of NMGRT.

SUMMARY:

The City of Santa Fe has received multiple State of New Mexico Aging and Long Term Services Department Agreements for the City of Santa Fe Senior Centers Improvements Project. Agreement #2013-1204 in the amount of \$185,690 is for Luisa Senior Center Improvements. Agreement #2013-1205 in the amount of \$146,940 is for a Computer Lab Addition at Luisa Senior Center. Agreement #2013-1214 in the amount of \$110,890 is for Villa Consuelo Senior Center Improvements. The project includes three base bid items. Base Bid Item #1 is a Computer Lab Addition at the Luisa Senior Center to include demolition and removals. Base Bid Item #2 is the Luisa Senior Center Improvements Project to include suspended ceiling replacement, HVAC, Electrical & Mechanical Upgrades and Plumbing with a Portal Addition. Base Bid Item #3 is the Villa Consuelo Senior Center Improvements Project to include suspended ceiling replacement, HVAC, Electrical & Mechanical Upgrades and Plumbing.

(See attached plans for the Senior Center Improvements Project.)

A design for the Senior Centers Improvements with associated work has been completed and let out to quote under CES procurement. The Facilities Division is requesting approval of construction services for this project as described in the Construction Documents developed by Autotroph.

Itemized proposals of services and costs related to this procurement are attached.

MEMO

City of Santa Fe CIP #682A – City of Santa Fe Senior Centers Improvements Project
Construction Services Agreement
Page 2

By City policy, the City may use State and Federal Price or Cooperative Agreements in lieu of bidding out the project. By City policy, procurement from State or Federal agreements in amounts over \$50,000 requires City Council approval (City Purchasing Manual Section 11.1).

On December 5, 2014 the project was bid out for construction due back January 13, 2015 with no bidders. On January 27, 2015 the project was re-advertised for construction with bids due back on February 13, 2015. One bid was received from AIC General Contractor from Albuquerque. At that time, the bid was over budget provided the complete scope of work, so the project scope was reduced to be within budget.

On September 29, 2015, Facilities Division accepted quotes from the qualified CES contractor to provide the required construction services. The Contractor submitted quotes inclusive of NMGRT were as follows:

Base Bid #1- Luisa Senior Center Computer Lab Addition	\$131,190.28
Base Bid #2- Luisa Senior Center Improvements	\$178,495.40
Base Bid #3- Villa Consuelo Senior Center Improvements	\$ 98,471.46

BUDGET:

Funding is available in Senior Centers Improvements WIP Construction: Business Unit #32505.572970 in the amount of \$408,157.14.

SCHEDULE:

Public Works Committee: 10/26/15

Finance Committee: 11/2/15

City Council: 11/10/15

See Exhibit 1 for contract construction schedule (90 days from Notice to Proceed).

REQUESTED ACTION:

Please approve award of the construction services scope of this project to AnchorBuilt, Inc. together with the associated AIA Agreement between Owner and Contractor and General Conditions in the amount of \$408,157.14.

ATTACHMENTS:

Construction Services Agreement with exhibits (Exhibit A)

Summary of Contracts

Contractor's Price Proposals (Exhibit B)

CES contract documents (Exhibit C)

xc: Project File



Document A101™ – 2007

Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

AGREEMENT made as of the _____ day of November in the year 2015
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address and other information)

City of Santa Fe
200 Lincoln Ave
Santa Fe, NM 87501

and the Contractor:
(Name, legal status, address and other information)

CES/AnchorBuilt, Inc.
4216 Balloon Park Rd NE
Albuquerque, NM 87109
(505) 344-5470

for the following Project:
(Name, location and detailed description)

CIP#682A- SENIOR CENTERS RENOVATIONS PROJECT
1500 Luisa Street- Luisa Senior Center Computer Lab Addition and Improvements
1200 Camino Consuelo- Villa Consuelo Senior Center Improvements
The scope of the work includes a Computer Lab Addition at Luisa Senior Center, improvements at Luisa Senior Center to include remove and replacement of the suspended ceiling, HVAC, Electrical, Mechanical and Plumbing Upgrades and a Portal Addition. At the Villa Consuelo Senior Center the improvements include remove and replacement of the suspended ceiling, HVAC, Electrical, Mechanical and Plumbing Upgrades.

The Architect:
(Name, legal status, address and other information)

Autotroph, Inc.
422 Greg Avenue
Santa Fe, NM 87505
(505) 216-7555

The Owner and Contractor agree as follows.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

AIA Document A201™–2007, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

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ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement and Modifications issued after execution of this Agreement, all of which form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 3.1 The date of commencement of the Work shall be the date of this Agreement unless a different date is stated below or provision is made for the date to be fixed in a notice to proceed issued by the Owner.
(Insert the date of commencement if it differs from the date of this Agreement or, if applicable, state that the date will be fixed in a notice to proceed.)

The date of commencement of the Work will be the date on the Notice to Proceed from the Owner

If, prior to the commencement of the Work, the Owner requires time to file mortgages and other security interests, the Owner's time requirement shall be as follows:

N/A

§ 3.2 The Contract Time shall be measured from the date of commencement of the Work.

§ 3.3 The Contractor shall achieve Substantial Completion of the entire Work not later than *(Paragraphs deleted)* ninety (90) calendar days from the date of commencement-subject to adjustment of this Contract Time as provided in the Contract Documents. Liquidated Damages of one thousand dollars (\$1,000) per calendar day will apply for work not completed by the Substantial Completion Date.

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(Insert provisions, if any, for liquidated damages relating to failure to achieve Substantial Completion on time or for bonus payments for early completion of the Work.)

ARTICLE 4 CONTRACT SUM

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be Four Hundred and Eight Thousand One Hundred Fifty Seven Dollars and Fourteen Cents (\$ 408,157.14), inclusive of NM gross receipts taxes subject to additions and deductions as provided in the Contract Documents.

§ 4.2 Unit prices, if any:

(Identify and state the unit price; state quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price Per Unit (\$0.00)
Base Bid Item #1- Luisa Senior Center Computer Lab Addition		\$131,190.28
Base Bid Item #2- Luisa Senior Center Improvements Project		\$178,495.40
Base Bid Item #3- Villa Consuelo Senior Center Improvements Project		\$ 98,471.46
Project Total=		\$408,157.14

(Table deleted)

(Paragraphs deleted)

(Table deleted)

(Paragraphs deleted)

ARTICLE 5 PAYMENTS

§ 5.1 PROGRESS PAYMENTS

§ 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 5.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

§ 5.1.3 Provided that an Application for Payment is received by the Architect not later than the 15 day of a month, the Owner shall make payment of the certified amount to the Contractor not later than the 30 day of the month. If an Application for Payment is received by the Architect after the application date fixed above, payment shall be made by the Owner not later than Twenty One (21) days after the Architect receives the Application for Payment.

(Federal, state or local laws may require payment within a certain period of time.)

§ 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

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§ 5.1.6 Subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

- .1 Pending final determination of cost to the Owner of changes in the Work, amounts not in dispute shall be included as provided in Section 7.3.9 of AIA Document A201™-2007, General Conditions of the Contract for Construction;
- .2 Add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing);
- .3 Subtract the aggregate of previous payments made by the Owner; and
- .4 Subtract amounts, if any, for which the Architect has withheld or nullified a Certificate for Payment as provided in Section 9.5 of AIA Document A201-2007.

§ 5.1.7 The progress payment amount determined in accordance with Section 5.1.6 shall be further modified under the following circumstances:

- .1 Add, upon Substantial Completion of the Work, a sum sufficient to increase the total payments to the full amount of the Contract Sum, less such amounts as the Architect shall determine for incomplete Work, retainage applicable to such work and unsettled claims; and
(Section 9.8.5 of AIA Document A201-2007 requires release of applicable retainage upon Substantial Completion of Work with consent of surety, if any.)
- .2 Add, if final completion of the Work is thereafter materially delayed through no fault of the Contractor, any additional amounts payable in accordance with Section 9.10.3 of AIA Document A201-2007.

§ 5.1.8

(Paragraphs deleted)

Except with the Owner's prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

(Paragraph deleted)

§ 5.2 FINAL PAYMENT

§ 5.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when

- .1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Section 12.2.2 of AIA Document A201-2007, and to satisfy other requirements, if any, which extend beyond final payment; and
- .2 a final Certificate for Payment has been issued by the Architect.

§ 5.2.2 The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the Architect's final Certificate for Payment, or as follows:

Within fifteen days of the Contractor's request for final payment has been submitted to the City, provided the Owner has received the Consent of Surety and Waivers and Release of Liens from the Contractor.

ARTICLE 6 DISPUTE RESOLUTION

§ 6.1 INITIAL DECISION MAKER

The City will serve as Initial Decision Maker pursuant to Section 15.2 of AIA Document A201-2007, unless the parties appoint below another individual, not a party to this Agreement, to serve as Initial Decision Maker.

(Paragraphs deleted)

§ 6.2 BINDING DISPUTE RESOLUTION

For any Claim subject to, but not resolved by, mediation pursuant to Section 15.3 of AIA Document A201-2007, the method of binding dispute resolution shall be as follows:

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(Check the appropriate box. If the Owner and Contractor do not select a method of binding dispute resolution below, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, Claims will be resolved by litigation in a court of competent jurisdiction.)

- Arbitration pursuant to Section 15.4 of AIA Document A201-2007
- Litigation in a court of competent jurisdiction
- Other *(Specify In Accordance with New Mexico Public Works Mediation Act 13-4C-11, NMSA 1978)*

ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201-2007.

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201-2007.

ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201-2007 or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

§ 8.2 The Owner's representative:
(Name, address and other information)

LeAnn Valdez, Project Administrator
Public Works Department/Facilities Division
City of Santa Fe
2651 Siringo Road, Building E
Santa Fe, NM 87505
(505) 955-5938

§ 8.3 The Contractor's representative:
(Name, address and other information)

Ray Zamora
AnchorBuilt, Inc.
PO Box 27688
Albuquerque, NM 87125
(505) 342-2452

§ 8.4
(Paragraphs deleted)

Neither the Owner's nor the Contractor's representative shall be changed without ten days written notice to the other party.

§ 8.5.1 INDEMNIFICATION

The Contractor shall indemnify, hold harmless and defend the City from all losses, damages, claims or judgements, including payments of all attorneys' fees and costs on account of any suit, judgment, execution, claim, action or demand whatsoever arising from Contractor's performance under this Agreement as well as the

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performance of Contractor's employees, agents, representatives and subcontractors.

(Paragraphs deleted)

§ 8.5.2 APPROPRIATIONS

The terms of this Agreement are contingent upon sufficient appropriations and authorization being made by the City for the performance of this Agreement. If sufficient appropriations and authorization are not made by the City, this Agreement shall terminate upon written notice being given by the City to the Contractor. The City's decision as to whether sufficient appropriations are available shall be accepted by the Contractor and shall be final.

§ 8.5.3 THIRD PARTY BENEFICIARIES

By entering into this Agreement, the parties do not intend to create any right, title or interest in or for the benefit of any person other than the City and the Contractor. No person shall claim any right, title or interest under this Agreement or seek to enforce this Agreement as a third party beneficiary of this Agreement.

§ 8.5.4 STATUS OF CONTRACTOR; RESPONSIBILITY FOR PAYMENT OF EMPLOYEES AND SUBCONTRACTORS

A. The Contractor and its agents and employees are independent contractors performing professional services for the City and are not employees of the City. The Contractor, and its agents and employees, shall not accrue leave, retirement, insurance, bonding, use of City vehicles, or any other benefits afforded to employees of the City as a result of this Agreement.

B. Contractor shall be solely responsible for payment of wages, salaries and benefits to any and all employees or subcontractors retained by Contractor in the performance of the services under this Agreement.

C. The Contractor shall comply with City of Santa Fe Minimum Wage, Article 28-1-SFCC 1987, as well as any subsequent changes to such article throughout the term of this Agreement.

§ 8.5.5 CONFLICT OF INTEREST

The Contractor warrants that it presently has no interest and shall not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of services required under this Agreement. Contractor further agrees that in the performance of this Agreement no persons having any such interests shall be employed.

§ 8.5.6 ASSIGNMENT: SUBCONTRACTING

The Contractor shall not assign or transfer any rights, privileges, obligations or other interest under this Agreement, including any claims for money due, without the prior written consent of the City. The Contractor shall not subcontract any portion of the services to be performed under this Agreement without the prior written approval of the City.

§ 8.5.7 RELEASE

The Contractor, upon acceptance of final payment of the amount due under this Agreement, releases the City, its officers and employees, from all liabilities, claims and obligations whatsoever arising from or under this Agreement. The Contractor agrees not to purport to bind the City to any obligation not assumed herein by the City unless the Contractor has express written authority to do so, and then only within the strict limits of that authority.

§ 8.5.8 INSURANCE

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A. The contractor, at its own cost and expense, shall carry and maintain in full force and effect during the term of this Agreement, comprehensive general liability insurance covering bodily injury and property damage liability, in a form and with an insurance company acceptable to the City, with limits of coverage in the maximum amount which the City could be held liable under the New Mexico Tort Claims Act for each person injured and for each accident resulting in damage to property. Such insurance shall provide that the City is named as an additional insured and that the City is notified no less than 30 days in advance of cancellation for any reason. The Contractor shall furnish the City with a copy of a Certificate of Insurance as a condition prior to performing services under this Agreement.

B. Contractor shall also obtain and maintain Workers' compensation insurance, required by law, to provide coverage for Contractor's employees throughout the term of this Agreement. Contractor shall provide the City with evidence of its compliance with such requirement.

§ 8.5.9 RECORDS AND AUDIT

The contractor shall maintain, throughout the term of this Agreement and for a period of three years thereafter, detailed records that indicate the date, time and nature of services rendered. These records shall be subject to inspection by the City, the Department of Finance and Administration, and the State Auditor. The City shall have the right to audit the billing both before and after payment. Payment under this Agreement shall not foreclose the right of the City to recover excessive or illegal payments.

§ 8.5.10 APPLICABLE LAW: CHOICE OF LAW: VENUE

Contractor shall abide by all applicable federal and state laws and regulations, and all ordinances, rules and regulations of the City of Santa Fe. In any action, suit or legal dispute arising from this Agreement, the Contractor agrees that the laws of the State of New Mexico shall govern. The parties agree that any action or suit arising from this Agreement shall be commenced in a federal or state court of competent jurisdiction in New Mexico. Any action or suit commenced in the courts of the State of New Mexico shall be brought in the First Judicial District Court.

§ 8.5.11 AMENDMENT

This Agreement shall not be altered, changed or modified except by an amendment in writing executed by the parties hereto.

§ 8.5.12 NON-DISCRIMINATION

During the term of this Agreement, Contractor shall not discriminate against any employee or applicant for an employment position to be used in the performance of services by Contractor hereunder, on the basis of ethnicity, race, age, religion, creed, color, national origin, ancestry, sex, gender, sexual orientation, physical or mental disability, medical condition, or citizenship status.

§ 8.5.13 SEVERABILITY

In case any one or more of the provisions contained in this Agreement or any application thereof shall be invalid, illegal or unenforceable in any respect, the validity, legality, and enforceability of the remaining provisions contained herein and any other application thereof shall not in any way be affected or impaired thereby.

8.5.14 NOTICES

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Any and all notices provided for hereunder shall be in writing and shall be deemed delivered, given and received when (i) personally delivered, or (ii) five (5) days after the same are deposited in the United States Postal Service mail, postage prepaid, certified mail, return receipt requested, addressed to the applicable party at the address indicated below for each party, or at such other address as may be designated by either party in a written notice to the other party:

OWNER:	Public Works Department /Facilities Division, City of Santa Fe PO Box 909 Santa Fe, NM 87504-0909
CONTRACTOR:	AnchorBuilt, Inc. PO Box 27688 Albuquerque, NM 87125

8.5.15 NEW MEXICO TORT CLAIMS ACT

Any liability incurred by the City of Santa Fe in connection with this agreement is subject to the immunities and limitations of the New Mexico Tort Claims Act, Section 41-4-1, et. seq. NMSA 1978, as amended. The City and its "public employees" as defined in the New Mexico Tort Claims Act, do not waive any limitation of liability pursuant to law. No provision in this Agreement modifies or waives any provision of the New Mexico Tort Claims Act.

8.5.16 TERM AND EFFECTIVE DATE

This Agreement shall be effective when signed by the City and the Contractor, whichever occurs last, and terminate on June 30, 2016, unless sooner pursuant to section 7, infra.

ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS

§ 9.1 The Contract Documents, except for Modifications issued after execution of this Agreement, are enumerated in the sections below.

§ 9.1.1 The Agreement is this executed AIA Document A101-2007, Standard Form of Agreement Between Owner and Contractor.

§ 9.1.2 The General Conditions are AIA Document A201-2007, General Conditions of the Contract for Construction.

§ 9.1.3 The Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages
Project Plans	Senior Center Improvements Project	July 15, 2015	46
Project Specifications	Senior Center Improvements Specifications	July 15, 2015	340

§ 9.1.4 The Specifications:

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(Either list the Specifications here or refer to an exhibit attached to this Agreement.) (The specifications are included in the drawings as provided by the Owner.

(Table deleted)

§ 9.1.5 The Drawings:

(Either list the Drawings here or refer to an exhibit attached to this Agreement.) Provided by the Owner designed by the Architect.)

(Table deleted)

§ 9.1.6 Additional documents, if

(Table deleted)

any, forming part of the Contract Documents:

None

(Paragraphs deleted)

ARTICLE 10 INSURANCE AND BONDS

The Contractor shall purchase and maintain insurance and provide bonds as set forth in Article 11 of AIA Document A201-2007.

(State bonding requirements, if any, and limits of liability for insurance required in Article 11 of AIA Document A201-2007.)

Type of insurance or bond	Limit of liability or bond amount (\$0.00)
Performance and Payment Bonds	100% of the Contract amount
Commercial General Liability	\$1,000,000 per occurrence, \$2,000,000 general aggregate
Automobile Liability	\$500,000 combined single limit
Workers Compensation	\$100,000 each accident, \$100,000 disease, each employee
Workers Compensation	\$500,000 disease, policy limit

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IN WITNESS WHEREOF, the parties have executed this Agreement on the date set forth below.

CITY OF SANTA FE:

JAVIER M. GONZALES, MAYOR

DATE: _____

ATTEST:

YOLANDA Y. VIGIL
CITY CLERK

APPROVED AS TO FORM:

MDM *10/20/15*

KELLEY A. BRENNAN,
CITY ATTORNEY

CONTRACTOR: ANCHORBUILT, INC.

BY: PRESIDENT

NM LICENSE #: _____
CRS #: 02-387068-00-0
CITY BUSINESS REGISTRATION #: 12-00111786

APPROVED:

OSCAR RODRIGUEZ, FINANCE DIRECTOR

32505.572970
Business Unit/Line Item

(Paragraphs deleted)

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**City of Santa Fe
Summary of Contracts, Agreements, & Amendments**

Section to be completed by department for each contract or contract amendment

- | | | | | |
|---|-------------------------------|-------------------------------------|-----------------------------|--------------------------|
| 1 | FOR: ORIGINAL CONTRACT | <input checked="" type="checkbox"/> | CONTRACT AGREEMENT | <input type="checkbox"/> |
| | MAINTENANCE AGREEMENT | <input type="checkbox"/> | LICENSE AGREEMENT | <input type="checkbox"/> |
| | LEGAL SERVICES AGREEMENT | <input type="checkbox"/> | MEMORANDUM OF UNDERSTANDING | <input type="checkbox"/> |
| | MEMORANDUM OF AGREEMENT | <input type="checkbox"/> | JOINT POWERS AGREEMENTS | <input type="checkbox"/> |
| | GRANT AGREEMENTS | <input type="checkbox"/> | CHANGE ORDERS | <input type="checkbox"/> |

2 Name of Contractor CES/AnchorBuilt Inc.

3 Complete information requested Plus GRT
 Inclusive of GRT

Original Contract Amount: \$408,157.14

Termination Date: June 30, 2016

Approved by Council Date: November 10, 2015

or by City Manager Date: _____

Contract is for: Senior Center Improvements Project- Luisa Senior Center and Villa Consuelo Senior Center

Amendment # _____ to the Original Contract# _____

Increase/(Decrease) Amount \$ _____

Extend Termination Date to: _____

Approved by Council Date: _____

or by City Manager Date: _____

Amendment is for:

4 **History of Contract & Amendments:** (option: attach spreadsheet if multiple amendments) Plus GRT
 Inclusive of GRT

Amount \$ _____ of original Contract# _____ Termination Date: Open
 Reason: _____

Amount \$ _____ amendment # _____ Termination Date: Open
 Reason: _____



**City of Santa Fe
Summary of Contracts, Agreements, & Amendments**

Amount \$ _____ amendment # _____ Termination Date: Open

Reason: _____

Amount \$ _____ amendment # _____ Termination Date: _____

Reason: _____

Amount \$ _____ amendment # _____ Termination Date: _____

Reason: _____

Amount \$ _____ amendment # _____ Termination Date: _____

Reason: _____

5

Total of Original Contract plus all amendments: \$ 0.00

6 **Procurement Method of Original Contract:** (complete one of the lines) _____

RFP RFQ Sole Source Other Purchasing Manual section 11.1

7

Procurement History: First year of open Agreement

8

example: (First year of 4 year contract)

Funding Source: Senior Center Improvements **BU/Line Item#: #** 32505.572970

9 **Any out-of-the ordinary or unusual issues or concerns:** _____

(Memo may be attached to explain detail.)

Staff Contact who completed this form: LeAnn Valdez *LV* Phone # 955 5938

10 **Division Director:** David J. Pfeifer *David Pfeifer*

11 **Department Director:** Isaac J. Pino *Isaac J. Pino*

Certificate of Insurance attached. (if original Contract)

12 **Description of your efforts to reduce the cost of the contract including information on efforts to obtain other quotes for the contracted activity:** Negotiated with contractor

13

Prior year's contract amount?: NA

14

Describe service impact from an ongoing commitment to the contractor: N/A

15

Why staff cannot perform the work?: required licenses

16

If extending contract, why?: N/A

17 **Was a Santa Fe company awarded contract? If not, why?:** _____

18

Has the contract been approved as to form by City Attorney's Office?: Yes

Is this for City Manager or Council approval?: City Council



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**Job Order Contract
Price Proposal Summary - CSI**

Date: September 29, 2015
 Contract Number: Region 2
 Job Order Number: 029010.00
 Job Order Title: Luisa Senior Center Renovations
 Contractor: AnchorBuilt, Inc.
 Proposal Value: \$131,190.28
 Proposal Name: Base Bid Item 1 - Luis Senior Center Addition
 Detailed Scope: Luisa Senior Center
 Base Bid Item 1 - Luisa Senior Center Addition

01 - General Requirements:	\$17,244.81
02 - Site Work:	\$2,528.20
03 - Concrete:	\$17,938.68
05 - Metals:	\$89.62
06 - Wood, Plastic, and Composites:	\$14,545.14
07 - Thermal & Moisture Protection:	\$9,211.15
08 - Openings:	\$10,092.15
09 - Finishes:	\$16,978.34
10 - Specialties:	\$26.22
22 - Plumbing:	\$3,781.70
23 - Heating, Ventilating, And Air-Conditioning (HVAC):	\$8,641.21
26 - Electrical:	\$23,090.55
28 - Electronic Safety And Security:	\$962.74
31 - Earthwork:	\$6,059.77
Proposal Total	\$131,190.28

This proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

The Percent of NPP on this Proposal: 0.00%

Job Order Contract
Price Proposal Detail - CSI

Date: September 29, 2015
Contract Number: Region 2
Job Order Number: 029010.00
Job Order Title: Luisa Senior Center Renovations
Contractor: AnchorBuilt, Inc.
Proposal Value: \$131,190.28
Proposal Name: Base Bid Item 1 - Luis Senior Center Addition
Adjustment Factor(s) Used: 1.0000-No Adjustment, 1.2840-Normal Hours Requiring State Wage Rates (Outside Tribal Land)

Rec#	CSI Number	Mod.	UOM	Description	Line Total
01 - General Requirements					
1	01 22 16 00 0004		EA	New Mexico Gross Receipts Tax – Varies by County	\$9,486.98
			Installation	Quantity 9,486.98 x Unit Price \$1.00 x Factor 1.0000 =	Total \$9,486.98
2	01 22 16 00 0005		EA	Job Order Development Services	\$7,204.97
			Installation	Quantity 7,204.97 x Unit Price \$1.00 x Factor 1.0000 =	Total \$7,204.97
3	01 22 16 00 0006		EA	New Mexico Gross Receipts Tax – Out of State Vendor	\$369.25
			Installation	Quantity 369.25 x Unit Price \$1.00 x Factor 1.0000 =	Total \$369.25
4	01 56 16 00 0054		SF	6 Mil Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	\$183.61
			Installation	Quantity 100.00 x Unit Price \$1.43 x Factor 1.2840 =	Total \$183.61
Subtotal for 01 - General Requirements:					\$17,244.81
02 - Site Work					
5	02 41 13 13 0041		SF	>3" To 6" By Hand, Break-up And Remove Concrete Paving	\$1,630.68
			Installation	Quantity 500.00 x Unit Price \$2.54 x Factor 1.2840 =	Total \$1,630.68
6	02 41 16 13 0003		GSF	Commercial Building Interior Up To 2,000 SF, Gutting And Disposal Into Dumpster Or Truck	\$897.52
			Installation	Quantity 150.00 x Unit Price \$4.66 x Factor 1.2840 =	Total \$897.52
Subtotal for 02 - Site Work:					\$2,528.20
03 - Concrete					
7	03 01 30 71 0009		SF	Patch Floors, 1/8" To 1/4", Cementitious Patching Mortar	\$802.24
			Installation	Quantity 220.00 x Unit Price \$2.84 x Factor 1.2840 =	Total \$802.24
8	03 11 13 00 0003		SF	Continuous Footings Foundation Wood Formwork	\$1,581.89
			Installation	Quantity 400.00 x Unit Price \$3.08 x Factor 1.2840 =	Total \$1,581.89
9	03 11 13 00 0015		LF	>12" To 18" Square Column Wood Formwork	\$2,085.63
			Installation	Quantity 48.00 x Unit Price \$33.84 x Factor 1.2840 =	Total \$2,085.63
10	03 15 16 00 0014		LF	1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	\$392.90
			Installation	Quantity 300.00 x Unit Price \$1.02 x Factor 1.2840 =	Total \$392.90

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total
03 - Concrete					
11	03 21 11 00 0002		TON	Grade 40 Reinforcing Steel, Footings And Slabs, #3-#6	\$2,266.99
			Installation	Quantity 1.00 x Unit Price \$1,765.57 x Factor 1.2840 = Total \$2,266.99	
12	03 31 13 00 0009		CY	Direct Chute, Place 3000 PSI Concrete Continuous Footings	\$5,560.88
			Installation	Quantity 35.00 x Unit Price \$123.74 x Factor 1.2840 = Total \$5,560.88	
13	03 31 13 00 0088		HR	92' Boom Truck For Concrete Placement (70 CY Per Hour Rating)	\$2,503.49
			Installation	Quantity 12.00 x Unit Price \$162.48 x Factor 1.2840 = Total \$2,503.49	
14	03 35 16 00 0002		SF	Concrete Floor Finishes, Screed	\$296.86
			Installation	Quantity 680.00 x Unit Price \$0.34 x Factor 1.2840 = Total \$296.86	
15	03 35 16 00 0006		SF	Concrete Floor Finishes, Steel Trowel	\$532.60
			Installation	Quantity 680.00 x Unit Price \$0.61 x Factor 1.2840 = Total \$532.60	
16	03 35 43 00 0004		SF	Mechanically Grind Concrete Floor With 100 Grit Resin Bonded Diamond Wheels	\$254.23
			Installation	Quantity 660.00 x Unit Price \$0.30 x Factor 1.2840 = Total \$254.23	
17	03 35 43 00 0005		SF	Mechanically Grind Concrete Floor With 150 Grit Metal Bonded Diamond Wheels	\$364.40
			Installation	Quantity 660.00 x Unit Price \$0.43 x Factor 1.2840 = Total \$364.40	
18	03 35 43 00 0006		SF	Mechanically Grind Concrete Floor With 200 Grit Resin Bonded Diamond Wheels	\$254.23
			Installation	Quantity 660.00 x Unit Price \$0.30 x Factor 1.2840 = Total \$254.23	
19	03 35 43 00 0007		SF	Mechanically Grind Concrete Floor With 400 Grit Resin Bonded Diamond Wheels	\$254.23
			Installation	Quantity 660.00 x Unit Price \$0.30 x Factor 1.2840 = Total \$254.23	
20	03 35 43 00 0008		SF	Mechanically Grind Concrete Floor With 800 Grit Resin Bonded Diamond Wheels	\$254.23
			Installation	Quantity 660.00 x Unit Price \$0.30 x Factor 1.2840 = Total \$254.23	
21	03 35 43 00 0009		SF	Mechanically Grind Concrete Floor With 1,500 Grit Resin Bonded Diamond Wheels	\$254.23
			Installation	Quantity 660.00 x Unit Price \$0.30 x Factor 1.2840 = Total \$254.23	
22	03 35 43 00 0010		SF	High Speed Burnish Concrete Floor With Diamond Pads	\$67.80
			Installation	Quantity 660.00 x Unit Price \$0.08 x Factor 1.2840 = Total \$67.80	
23	03 35 43 00 0011		SF	Apply One Coat Of Concrete Densifier	\$84.74
			Installation	Quantity 660.00 x Unit Price \$0.10 x Factor 1.2840 = Total \$84.74	
24	03 35 43 00 0012		SF	Apply Two Coats Of Concrete Densifier With Stain Protectant	\$84.74
			Installation	Quantity 660.00 x Unit Price \$0.10 x Factor 1.2840 = Total \$84.74	

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total
03 - Concrete					
25	03 35 43 00 0013		SF	Concrete Floor Polishing Final Clean Up	\$42.37
			Installation	Quantity 660.00 x Unit Price \$0.05 x Factor 1.2840 = Total \$42.37	
Subtotal for 03 - Concrete:					\$17,938.68
05 - Metals					
26	05 05 23 00 0029		EA	5/8" Diameter x 6-3/16" Long, Welded Stud Concrete Anchors	\$89.62
			Installation	Quantity 20.00 x Unit Price \$3.49 x Factor 1.2840 = Total \$89.62	
Subtotal for 05 - Metals:					\$89.62
06 - Wood, Plastic, and Composites					
27	06 05 23 00 0009		EA	18 Gauge Joist Hanger, For 2" x 4" Joist, Also Acceptable For Beam Hangers	\$308.16
			Installation	Quantity 100.00 x Unit Price \$2.40 x Factor 1.2840 = Total \$308.16	
28	06 11 13 00 0003		LF	Two 2" x 6" Built-up Wood Beam Or Joist	\$1,197.20
			Installation	Quantity 420.00 x Unit Price \$2.22 x Factor 1.2840 = Total \$1,197.20	
29	06 11 13 00 0004		LF	Two 2" x 8" Built-up Wood Beam Or Joist	\$1,808.44
			Installation	Quantity 484.00 x Unit Price \$2.91 x Factor 1.2840 = Total \$1,808.44	
30	06 11 13 00 0004		LF	Two 2" x 8" Built-up Wood Beam Or Joist	\$1,808.44
			Installation	Quantity 484.00 x Unit Price \$2.91 x Factor 1.2840 = Total \$1,808.44	
31	06 11 13 00 0004		LF	Two 2" x 8" Built-up Wood Beam Or Joist	\$990.16
			Installation	Quantity 265.00 x Unit Price \$2.91 x Factor 1.2840 = Total \$990.16	
32	06 11 16 00 0050		LF	2" x 6" Wood Stud Framing, For Partition Walls	\$549.55
			Installation	Quantity 400.00 x Unit Price \$1.07 x Factor 1.2840 = Total \$549.55	
33	06 11 16 00 0071		LF	2" x 6" Wood Sill	\$199.02
			Installation	Quantity 100.00 x Unit Price \$1.55 x Factor 1.2840 = Total \$199.02	
34	06 11 16 00 0078		LF	2" x 6" Wood Plate	\$199.02
			Installation	Quantity 100.00 x Unit Price \$1.55 x Factor 1.2840 = Total \$199.02	
35	06 11 16 00 0079		LF	2" x 8" Wood Plate	\$246.53
			Installation	Quantity 100.00 x Unit Price \$1.92 x Factor 1.2840 = Total \$246.53	
36	06 11 16 00 0135		LF	2" x 6" Wood Blocking To Wood	\$659.98
			Installation	Quantity 200.00 x Unit Price \$2.57 x Factor 1.2840 = Total \$659.98	
37	06 16 33 00 0011		SF	1/2" Interior BC Plywood Wall Sheathing Applied to wall studs.	\$1,228.79
			Installation	Quantity 660.00 x Unit Price \$1.45 x Factor 1.2840 = Total \$1,228.79	

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total
06 - Wood, Plastic, and Composites					
38	06 17 53 00 0016		EA	38' Pre-Assembled Wood Roof Truss, 4 In 12 Slope	\$5,349.85
			Installation	Quantity 15.00 x Unit Price \$277.77 x Factor 1.2840 = Total \$5,349.85	

Subtotal for 06 - Wood, Plastic, and Composites: \$14,545.14

Rec#	CSI Number	Mod.	UOM	Description	Line Total
07 - Thermal & Moisture Protection					
39	07 21 13 13 0002		SF	1" Thick, R3.44, Foam Glass (Cellular Glass), Foam Board Insulation	\$1,684.61
			Installation	Quantity 800.00 x Unit Price \$1.64 x Factor 1.2840 = Total \$1,684.61	
40	07 21 16 00 0006		SF	5-1/2" Thick, Kraft Faced, R-21 Fiberglass Flexible Insulation	\$1,787.33
			Installation	Quantity 1,200.00 x Unit Price \$1.16 x Factor 1.2840 = Total \$1,787.33	
41	07 54 23 00 0003		SQ	60 Mil, Single Ply TPO Roofing Membrane, Fully AdheredIncludes adhesive.	\$1,551.51
			Installation	Quantity 7.00 x Unit Price \$172.62 x Factor 1.2840 = Total \$1,551.51	
42	07 54 23 00 0009		SQ	Acrylic, TPO Roofing Primer, Price Per Coat	\$344.87
			Installation	Quantity 7.00 x Unit Price \$38.37 x Factor 1.2840 = Total \$344.87	
43	07 54 23 00 0015		SF	TPO Membrane Base Flashing	\$689.51
			Installation	Quantity 150.00 x Unit Price \$3.58 x Factor 1.2840 = Total \$689.51	
44	07 54 23 00 0016		SF	TPO Curb Flashing	\$307.77
			Installation	Quantity 85.00 x Unit Price \$2.82 x Factor 1.2840 = Total \$307.77	
45	07 59 00 00 0002		LF	Roofing Membrane Termination BarIncludes fasteners and caulking.	\$2,116.03
			Installation	Quantity 800.00 x Unit Price \$2.06 x Factor 1.2840 = Total \$2,116.03	
46	07 72 13 00 00178		EA	51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb	\$328.09
			Installation	Quantity 1.00 x Unit Price \$255.52 x Factor 1.2840 = Total \$328.09	
47	07 92 00 00 0002		CLF	1/4" x 1/4" Joint, Silicone Sealant And Caulking	\$401.43
			Installation	Quantity 2.00 x Unit Price \$156.32 x Factor 1.2840 = Total \$401.43	

Subtotal for 07 - Thermal & Moisture Protection: \$9,211.15

Rec#	CSI Number	Mod.	UOM	Description	Line Total
08 - Openings					
48	08 12 13 13 0007		EA	3' x 6'-8" Through 7'-2" x 4-3/4" Deep Metal Door Frame, 16 Gauge	\$474.26
			Installation	Quantity 2.00 x Unit Price \$184.68 x Factor 1.2840 = Total \$474.26	
49	08 12 13 13 0007		EA	3' x 6'-8" Through 7'-2" x 4-3/4" Deep Metal Door Frame, 16 Gauge	\$474.26
			Installation	Quantity 2.00 x Unit Price \$184.68 x Factor 1.2840 = Total \$474.26	

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total
08 - Openings					
50	08 14 16 00 0008		EA	3'-6" x 7' x 1-3/8" Hollow Core, Birch Faced Door	\$559.95
			Installation	Quantity 2.00 x Unit Price \$218.05 x Factor 1.2840 = Total \$559.95	
51	08 14 16 00 0008		EA	3'-6" x 7' x 1-3/8" Hollow Core, Birch Faced Door	\$617.86
			Installation	Quantity 2.00 x Unit Price \$218.05 x Factor 1.2840 = Total \$559.95	
			Demolition	Quantity 2.00 x Unit Price \$22.55 x Factor 1.2840 = Total \$57.91	
52	08 52 13 00 0575		EA	37-5/8" x 64-7/8", Picture Metal Clad Wood Window For Double Hung Windows (Jeld-Wen 'Builders-Clad')	\$5,318.74
			Installation	Quantity 8.00 x Unit Price \$505.52 x Factor 1.2840 = Total \$5,192.70	
			Demolition	Quantity 4.00 x Unit Price \$24.54 x Factor 1.2840 = Total \$126.04	
53	08 71 16 00 0005		PR	4" x 4" Standard Duty, Full Mortise, Plain Bearing, Brass/Bronze, Satin Chrome Finish Hinge	\$116.77
			Installation	Quantity 2.00 x Unit Price \$45.47 x Factor 1.2840 = Total \$116.77	
54	08 71 16 00 2156		EA	Classroom F05 Mortise Lockset Locked with key outside. Inside always unlocked.	\$921.71
			Installation	Quantity 2.00 x Unit Price \$358.92 x Factor 1.2840 = Total \$921.71	
55	08 81 26 00 0018		SF	1/2" Thick, Tempered, Clear Float Field Installed Glass	\$1,608.60
			Installation	Quantity 80.00 x Unit Price \$15.66 x Factor 1.2840 = Total \$1,608.60	
Subtotal for 08 - Openings:					\$10,092.15

09 - Finishes					
56	09 24 23 00 0004		SF	Two Coat Troweled Stucco, Scratch/Finish Excludes lath and felt. Interior or exterior, one side.	\$1,987.25
			Installation	Quantity 670.00 x Unit Price \$2.31 x Factor 1.2840 = Total \$1,987.25	
57	09 29 00 00 0006		SF	5/8" Gypsum Board	\$1,456.06
			Installation	Quantity 1,400.00 x Unit Price \$0.81 x Factor 1.2840 = Total \$1,456.06	
58	09 29 00 00 0066		LF	>10' High, Horizontal Corners, Tape, Spackle And Finish Gypsum Board Use this task for the entire wall area when the wall is >10' high.	\$308.16
			Installation	Quantity 300.00 x Unit Price \$0.80 x Factor 1.2840 = Total \$308.16	
59	09 29 00 00 0073		LF	Casing, J-Bead For Gypsum Board	\$197.74
			Installation	Quantity 100.00 x Unit Price \$1.54 x Factor 1.2840 = Total \$197.74	
60	09 29 00 00 0074		LF	Corner Bead, Galvanized Metal For Gypsum Board	\$354.38
			Installation	Quantity 200.00 x Unit Price \$1.38 x Factor 1.2840 = Total \$354.38	
61	09 32 00 00 0001		SF	3/4" Minimum Thickness Portland Cement Mortar Setting Bed For residential floors. Includes 15# felt and wire reinforcement.	\$2,126.30
			Installation	Quantity 900.00 x Unit Price \$1.84 x Factor 1.2840 = Total \$2,126.30	

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total
09 - Finishes					
62	09 32 00 00 0003		SF	3/4" Portland Cement Plaster Scratch Coat for WallsIncludes 15# felt and expanded metal lath.	\$4,298.83
			Installation	Quantity 900.00 x Unit Price \$3.72 x Factor 1.2840 =	Total \$4,298.83
63	09 51 13 00 0018		SF	2' x 2' x 3/4" Mineral Fiber Acoustical Ceiling Panels	\$1,802.74
			Installation	Quantity 900.00 x Unit Price \$1.56 x Factor 1.2840 =	Total \$1,802.74
64	09 53 13 00 0002		LF	2" Straight Section Axiom Perimeter Trim	\$1,459.91
			Installation	Quantity 100.00 x Unit Price \$11.37 x Factor 1.2840 =	Total \$1,459.91
65	09 53 23 00 0004		SF	2' x 2' Grid, 15/16" T Bar Ceiling Suspension System	\$1,274.76
			Installation	Quantity 680.00 x Unit Price \$1.46 x Factor 1.2840 =	Total \$1,274.76
66	09 53 23 00 0010		LF	1" x 3/16" Flat Bar Bracing For Suspended Ceiling	\$387.13
			Installation	Quantity 150.00 x Unit Price \$2.01 x Factor 1.2840 =	Total \$387.13
67	09 91 23 00 0058		SF	Paint Interior Plaster/Drywall, 1 Coat Primer, Brush	\$508.46
			Installation	Quantity 1,200.00 x Unit Price \$0.33 x Factor 1.2840 =	Total \$508.46
68	09 91 23 00 0064		SF	Paint Interior Plaster/Drywall, 2 Coats Paint, Brush/Roller Work	\$816.62
			Installation	Quantity 1,200.00 x Unit Price \$0.53 x Factor 1.2840 =	Total \$816.62
Subtotal for 09 - Finishes:					\$16,978.34
10 - Specialties					
69	10 14 23 00 0004		EA	Up To 25 Sl, Adhesive Backed Vinyl, Surface Mount, Indoor/Outdoor Sign	\$26.22
			Installation	Quantity 2.00 x Unit Price \$10.21 x Factor 1.2840 =	Total \$26.22
Subtotal for 10 - Specialties:					\$26.22
22 - Plumbing					
70	22 11 16 00 0185		LF	3/4" Hard Drawn Type L Copper Tube/Pipe	\$470.46
			Installation	Quantity 80.00 x Unit Price \$4.58 x Factor 1.2840 =	Total \$470.46
71	22 11 16 00 0210		EA	3/4" 90 Degree Copper Elbow	\$166.02
			Installation	Quantity 6.00 x Unit Price \$21.55 x Factor 1.2840 =	Total \$166.02
72	22 11 16 00 0229		EA	3/4" 45 Degree Copper Elbow	\$172.42
			Installation	Quantity 6.00 x Unit Price \$22.38 x Factor 1.2840 =	Total \$172.42
73	22 11 16 00 0244		EA	3/4" Straight Copper Tee	\$256.16
			Installation	Quantity 6.00 x Unit Price \$33.25 x Factor 1.2840 =	Total \$256.16

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total
22 - Plumbing					
74	22 11 16 00 0300		EA	3/4" Male Copper Adapter	\$106.32
			Installation	Quantity 4.00 x Unit Price \$20.70 x Factor 1.2840 = Total \$106.32	
75	22 11 16 00 0309		EA	3/4" Female Copper Adapter	\$110.94
			Installation	Quantity 4.00 x Unit Price \$21.60 x Factor 1.2840 = Total \$110.94	
76	22 11 16 00 0319		EA	3/4" Copper To Copper Union	\$137.95
			Installation	Quantity 4.00 x Unit Price \$26.86 x Factor 1.2840 = Total \$137.95	
77	22 11 16 00 0329		EA	3/4" Copper Cap	\$18.64
			Installation	Quantity 4.00 x Unit Price \$3.63 x Factor 1.2840 = Total \$18.64	
78	22 11 16 00 0582		LF	2" Schedule 80 CPVC Pressure Pipe	\$530.81
			Installation	Quantity 60.00 x Unit Price \$6.89 x Factor 1.2840 = Total \$530.81	
79	22 13 16 00 0023		LF	4" Bell And Spigot Cast Iron Pipe	\$1,811.98
			Installation	Quantity 60.00 x Unit Price \$23.52 x Factor 1.2840 = Total \$1,811.98	

Subtotal for 22 - Plumbing: \$3,781.70

23 - Heating, Ventilating, And Air-Conditioning (HVAC)					
80	23 05 29 00 0007		EA	1-1/4" Steel Clevis Hanger (Cooper B-Line B3100)	\$145.61
			Installation	Quantity 10.00 x Unit Price \$11.34 x Factor 1.2840 = Total \$145.61	
81	23 05 29 00 0008		EA	1-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	\$666.20
			Installation	Quantity 45.00 x Unit Price \$11.53 x Factor 1.2840 = Total \$666.20	
82	23 05 93 00 0016		EA	Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser	\$315.50
			Installation	Quantity 4.00 x Unit Price \$61.43 x Factor 1.2840 = Total \$315.50	
83	23 05 93 00 0026		EA	Balance Dampers	\$70.31
			Installation	Quantity 4.00 x Unit Price \$13.69 x Factor 1.2840 = Total \$70.31	
84	23 07 13 00 0004		SF	1-1/2" Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation	\$677.95
			Installation	Quantity 300.00 x Unit Price \$1.76 x Factor 1.2840 = Total \$677.95	
85	23 09 23 00 0092		EA	Install And Wire Exhaust Fan Thermostat Control	\$92.02
			Installation	Quantity 1.00 x Unit Price \$71.67 x Factor 1.2840 = Total \$92.02	
86	23 09 23 00 0537		EA	Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH8321)	\$280.58
			Installation	Quantity 1.00 x Unit Price \$218.52 x Factor 1.2840 = Total \$280.58	

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total
23 - Heating, Ventilating, And Air-Conditioning (HVAC)					
87	23 21 13 23 0004		LF	3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting AssemblyIncludes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	\$163.90
			Installation	Quantity 15.00 x Unit Price \$8.51 x Factor 1.2840 =	Total \$163.90
88	23 21 13 23 0207		LF	1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting AssemblyIncludes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	\$1,239.57
			Installation	Quantity 60.00 x Unit Price \$16.09 x Factor 1.2840 =	Total \$1,239.57
89	23 31 13 13 0004		LB	Sheet Metal Ductwork, Medium Pressure, Field Fabricated, Galvanized, Field Assemble And Install	\$3,041.54
			Installation	Quantity 420.00 x Unit Price \$5.64 x Factor 1.2840 =	Total \$3,041.54
90	23 34 16 00 0244		EA	701 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L700)	\$472.95
			Installation	Quantity 1.00 x Unit Price \$368.34 x Factor 1.2840 =	Total \$472.95
91	23 54 13 00 0008		EA	>2.5 To 3 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric FurnaceExcludes cooling equipment.	\$1,475.08
			Installation	Quantity 1.00 x Unit Price \$1,148.82 x Factor 1.2840 =	Total \$1,475.08
Subtotal for 23 - Heating, Ventilating, And Air-Conditioning (HVAC):					\$8,641.21
26 - Electrical					
92	26 05 13 00 0004		MLF	#6 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	\$2,851.61
			Installation	Quantity 1.00 x Unit Price \$2,220.88 x Factor 1.2840 =	Total \$2,851.61
93	26 05 13 00 0005		MLF	#4 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	\$3,523.28
			Installation	Quantity 1.00 x Unit Price \$2,743.99 x Factor 1.2840 =	Total \$3,523.28
94	26 05 19 16 0271		MLF	#14 AWG Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$1,920.80
			Installation	Quantity 5.00 x Unit Price \$299.19 x Factor 1.2840 =	Total \$1,920.80
95	26 05 33 13 0006		CLF	1/2" EMT With 4 #10 THHN/THWN AssemblyIncludes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	\$4,782.14
			Installation	Quantity 6.00 x Unit Price \$395.03 x Factor 1.2840 =	Total \$3,043.31
			Demolition	Quantity 9.00 x Unit Price \$150.47 x Factor 1.2840 =	Total \$1,738.83

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
26 - Electrical							
96	26 05 33 13 0007		CLF	3/4" EMT With 3 #12 THHN/THWN AssemblyIncludes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	\$4,658.03		
				Quantity	Unit Price	Factor	Total
			Installation	6.00 x	\$381.83 x	1.2840 =	\$2,941.62
			Demolition	9.00 x	\$148.53 x	1.2840 =	\$1,716.41
97	26 24 13 00 0064		EA	100-400 Amp MC Branch Breaker, 120 / 240 V	\$2,224.90		
				Quantity	Unit Price	Factor	Total
			Installation	1.00 x	\$1,698.58 x	1.2840 =	\$2,180.98
			Demolition	1.00 x	\$34.21 x	1.2840 =	\$43.93
98	26 24 16 00 0025		EA	100 Amp Rating, 12 - 20 Amp Breakers, 120/240 V, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity	\$1,163.93		
				Quantity	Unit Price	Factor	Total
			Installation	1.00 x	\$906.49 x	1.2840 =	\$1,163.93
99	26 51 13 00 0128		EA	4 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	\$1,965.86		
				Quantity	Unit Price	Factor	Total
			Installation	8.00 x	\$191.38 x	1.2840 =	\$1,965.86

Subtotal for 26 - Electrical: \$23,090.55

28 - Electronic Safety And Security							
100	28 31 23 00 0078		EA	Intelligent Ionization Smoke Detector (EST3 SIGA-IS)	\$258.57		
				Quantity	Unit Price	Factor	Total
			Installation	2.00 x	\$100.69 x	1.2840 =	\$258.57
101	28 31 23 00 0119		EA	One Stage Fire Alarm Station, English Markings (EST3 SIGA-270)	\$294.60		
				Quantity	Unit Price	Factor	Total
			Installation	2.00 x	\$114.72 x	1.2840 =	\$294.60
102	28 31 23 00 0120		EA	Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P)	\$177.78		
				Quantity	Unit Price	Factor	Total
			Installation	1.00 x	\$138.46 x	1.2840 =	\$177.78
103	28 31 23 00 0542		EA	32 To 122 Degree F Heat Sensor (Simplex 4098-9733)	\$231.79		
				Quantity	Unit Price	Factor	Total
			Installation	2.00 x	\$90.26 x	1.2840 =	\$231.79

Subtotal for 28 - Electronic Safety And Security: \$962.74

31 - Earthwork							
104	31 11 00 00 0002		ACR	Clear And Grub Light Trees Up To 6" Diameter, Cut And ChipIncludes grub and removal of stump	\$1,142.31		
				Quantity	Unit Price	Factor	Total
			Installation	0.25 x	\$3,558.60 x	1.2840 =	\$1,142.31
105	31 23 16 13 0007		CY	Excavation For Trenching By Hand In SoilIncludes stockpiling excess materials and trimming sides and bottom of trench.	\$1,550.04		
				Quantity	Unit Price	Factor	Total
			Installation	30.00 x	\$40.24 x	1.2840 =	\$1,550.04
106	31 23 16 13 0010		CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine	\$111.71		
				Quantity	Unit Price	Factor	Total
			Installation	50.00 x	\$1.74 x	1.2840 =	\$111.71

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total
31 - Earthwork					
107	31 23 16 13 0011		CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand	\$717.76
			Installation	Quantity 50.00 x Unit Price \$11.18 x Factor 1.2840 =	Total \$717.76
108	31 23 16 13 0013		CY	Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera	\$154.72
			Installation	Quantity 50.00 x Unit Price \$2.41 x Factor 1.2840 =	Total \$154.72
109	31 23 16 13 0021		CY	Spread Excess Or Imported Material On Site With Machine	\$95.02
			Installation	Quantity 50.00 x Unit Price \$1.48 x Factor 1.2840 =	Total \$95.02
110	31 23 16 33 0003		CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil	\$191.32
			Installation	Quantity 50.00 x Unit Price \$2.98 x Factor 1.2840 =	Total \$191.32
111	31 23 16 33 0007		CY	Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine	\$182.97
			Installation	Quantity 50.00 x Unit Price \$2.85 x Factor 1.2840 =	Total \$182.97
112	31 23 16 33 0016		SY	Finish Grading for Bulk Excavation by Machine	\$61.63
			Installation	Quantity 150.00 x Unit Price \$0.32 x Factor 1.2840 =	Total \$61.63
113	31 23 16 36 0009		CY	Excavation For Building Foundations And Other Structures By Hand in Soil	\$516.68
			Installation	Quantity 10.00 x Unit Price \$40.24 x Factor 1.2840 =	Total \$516.68
114	31 23 16 36 0019		CY	Backfilling Around Building Foundations And Other Structures By Hand	\$246.14
			Installation	Quantity 10.00 x Unit Price \$19.17 x Factor 1.2840 =	Total \$246.14
115	31 23 16 36 0022		CY	Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand	\$161.91
			Installation	Quantity 10.00 x Unit Price \$12.61 x Factor 1.2840 =	Total \$161.91
116	31 23 16 36 0026		SY	Finish Grading For Building Foundations And Other Structures by Hand	\$718.40
			Installation	Quantity 150.00 x Unit Price \$3.73 x Factor 1.2840 =	Total \$718.40
117	31 23 16 36 0032		CY	Spread Excess Or Imported Material On Site By Hand	\$209.16
			Installation	Quantity 10.00 x Unit Price \$16.29 x Factor 1.2840 =	Total \$209.16

Subtotal for 31 - Earthwork: \$6,059.77

Proposal Total \$131,190.28

This proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

The Percent of NPP on this Proposal: 0.00%



Job Order Contract

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Price Proposal Summary - CSI

Date: September 29, 2015
Contract Number: Region 2
Job Order Number: 029010.01
Job Order Title: Luis Senior Center Base Bid Item 2
Contractor: AnchorBuilt, Inc.
Proposal Value: \$178,495.40
Proposal Name: Luisa Senior Center Base Bid Item 2
Detailed Scope: Luisa Senior Center Base Bid Item 2 Per plans and specs by Autotroph dated July 15 2015

01 - General Requirements:	\$23,213.20
02 - Site Work:	\$1,663.29
03 - Concrete:	\$9,367.43
06 - Wood, Plastic, and Composites:	\$7,324.14
07 - Thermal & Moisture Protection:	\$3,158.10
09 - Finishes:	\$12,431.69
22 - Plumbing:	\$19,182.11
23 - Heating, Ventilating, And Air-Conditioning (HVAC):	\$24,628.40
26 - Electrical:	\$76,616.21
31 - Earthwork:	\$910.83
Proposal Total	\$178,495.40

This proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

The Percent of NPP on this Proposal: 0.00%

Job Order Contract
Price Proposal Detail - CSI

Date: September 29, 2015
 Contract Number: Region 2
 Job Order Number: 029010.01
 Job Order Title: Luis Senior Center Base Bid Item 2
 Contractor: AnchorBuilt, Inc.
 Proposal Value: \$178,495.40
 Proposal Name: Luisa Senior Center Base Bid Item 2
 Adjustment Factor(s) Used: 1.0000-No Adjustment, 1.2840-Normal Hours Requiring State Wage Rates (Outside Tribal Land)

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
01 - General Requirements							
1	01 22 16 00 0004		EA	New Mexico Gross Receipts Tax – Varies by County	\$12,907.83		
				Quantity	Unit Price	Factor	Total
		Installation		12,907.83 x	\$1.00 x	1.0000 =	\$12,907.83
2	01 22 16 00 0005		EA	Job Order Development Services	\$9,802.97		
				Quantity	Unit Price	Factor	Total
		Installation		9,802.97 x	\$1.00 x	1.0000 =	\$9,802.97
3	01 22 16 00 0006		EA	New Mexico Gross Receipts Tax – Out of State Vendor	\$502.40		
				Quantity	Unit Price	Factor	Total
		Installation		502.40 x	\$1.00 x	1.0000 =	\$502.40
Subtotal for 01 - General Requirements:					\$23,213.20		
02 - Site Work							
4	02 41 13 13 0041		SF	>3" To 6" By Hand, Break-up And Remove Concrete Paving	\$1,663.29		
				Quantity	Unit Price	Factor	Total
		Installation		510.00 x	\$2.54 x	1.2840 =	\$1,663.29
Subtotal for 02 - Site Work:					\$1,663.29		
03 - Concrete							
5	03 11 13 00 0015		LF	>12" To 18" Square Column Wood Formwork	\$2,607.03		
				Quantity	Unit Price	Factor	Total
		Installation		60.00 x	\$33.84 x	1.2840 =	\$2,607.03
6	03 21 11 00 0002		TON	Grade 40 Reinforcing Steel, Footings And Slabs, #3-#6	\$2,266.99		
				Quantity	Unit Price	Factor	Total
		Installation		1.00 x	\$1,765.57 x	1.2840 =	\$2,266.99
7	03 31 13 00 0078		CY	Concrete Pump, Place 3000 PSI Concrete CopingExcludes pumping equipment.	\$3,871.31		
				Quantity	Unit Price	Factor	Total
		Installation		14.00 x	\$215.36 x	1.2840 =	\$3,871.31
8	03 35 16 00 0002		SF	Concrete Floor Finishes, Screed	\$222.65		
				Quantity	Unit Price	Factor	Total
		Installation		510.00 x	\$0.34 x	1.2840 =	\$222.65
9	03 35 16 00 0006		SF	Concrete Floor Finishes, Steel Trowel	\$399.45		
				Quantity	Unit Price	Factor	Total
		Installation		510.00 x	\$0.61 x	1.2840 =	\$399.45
Subtotal for 03 - Concrete:					\$9,367.43		
06 - Wood, Plastic, and Composites							

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
06 - Wood, Plastic, and Composites							
10	06 11 13 00 0003		LF	Two 2" x 6" Built-up Wood Beam Or Joist	\$456.08		
				Quantity	Unit Price	Factor	Total
			Installation	160.00 x	\$2.22 x	1.2840 =	\$456.08
11	06 11 13 00 0004		LF	Two 2" x 8" Built-up Wood Beam Or Joist	\$597.83		
				Quantity	Unit Price	Factor	Total
			Installation	160.00 x	\$2.91 x	1.2840 =	\$597.83
12	06 11 13 00 0004		LF	Two 2" x 8" Built-up Wood Beam Or Joist	\$934.11		
				Quantity	Unit Price	Factor	Total
			Installation	250.00 x	\$2.91 x	1.2840 =	\$934.11
13	06 11 16 00 0011		LF	2" x 12" Pressure Treated Wood Rafter	\$1,653.79		
				Quantity	Unit Price	Factor	Total
			Installation	350.00 x	\$3.68 x	1.2840 =	\$1,653.79
14	06 11 16 00 0015		LF	2" x 10" Wood Floor Joist	\$490.49		
				Quantity	Unit Price	Factor	Total
			Installation	200.00 x	\$1.91 x	1.2840 =	\$490.49
15	06 11 16 00 0058		SF	2" x 6" Wood Wall Framing At 12" On Center	\$1,147.90		
				Quantity	Unit Price	Factor	Total
			Installation	600.00 x	\$1.49 x	1.2840 =	\$1,147.90
16	06 11 16 00 0081		LF	2" x 6" Pressure Treated Wood Plate	\$268.36		
				Quantity	Unit Price	Factor	Total
			Installation	100.00 x	\$2.09 x	1.2840 =	\$268.36
17	06 11 16 00 0097		LF	6" x 6" Wood Post	\$16.50		
				Quantity	Unit Price	Factor	Total
			Installation	5.00 x	\$2.57 x	1.2840 =	\$16.50
18	06 11 16 00 0137		LF	4" x 4" Wood Blocking To Wood	\$796.08		
				Quantity	Unit Price	Factor	Total
			Installation	200.00 x	\$3.10 x	1.2840 =	\$796.08
19	06 11 16 00 0154		SF	3/4" Thick Pressure Treated Wood Lattice	\$963.00		
				Quantity	Unit Price	Factor	Total
			Installation	200.00 x	\$3.75 x	1.2840 =	\$963.00
Subtotal for 06 - Wood, Plastic, and Composites:					\$7,324.14		
07 - Thermal & Moisture Protection							
20	07 05 13 00 0013		SF	Roof Repair, Membrane Roofing, 25 To 50 SF	\$859.64		
				Quantity	Unit Price	Factor	Total
			Installation	50.00 x	\$13.39 x	1.2840 =	\$859.64
21	07 05 13 00 0026		LF	Mastic Sealer, 1/4" Bead At Joint	\$402.15		
				Quantity	Unit Price	Factor	Total
			Installation	180.00 x	\$1.74 x	1.2840 =	\$402.15
22	07 54 23 00 0006		SQ	60 Mil, Single Ply TPO Roofing Membrane, Mechanically FastenedIncludes fasteners.	\$1,290.78		
				Quantity	Unit Price	Factor	Total
			Installation	8.00 x	\$125.66 x	1.2840 =	\$1,290.78

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total		
07 - Thermal & Moisture Protection							
23	07 62 00 00 0014		SF	26 Gauge, 0.018" Thick, Stainless Steel Flashing And Trim	\$605.53		
				Quantity	Unit Price	Factor	Total
			Installation	60.00	\$7.86	1.2840	\$605.53

Subtotal for 07 - Thermal & Moisture Protection: \$3,158.10

09 - Finishes							
24	09 24 23 00 0004		SF	Two Coat Troweled Stucco, Scratch/FinishExcludes lath and felt. Interior or exterior, one side.	\$1,779.62		
				Quantity	Unit Price	Factor	Total
			Installation	600.00	\$2.31	1.2840	\$1,779.62
25	09 29 00 00 0006		SF	5/8" Gypsum Board	\$624.02		
				Quantity	Unit Price	Factor	Total
			Installation	600.00	\$0.81	1.2840	\$624.02
26	09 29 00 00 0074		LF	Corner Bead, Galvanized Metal For Gypsum Board	\$531.58		
				Quantity	Unit Price	Factor	Total
			Installation	300.00	\$1.38	1.2840	\$531.58
27	09 32 00 00 0001		SF	3/4" Minimum Thickness Portland Cement Mortar Setting BedFor residential floors. Includes 15# felt and wire reinforcement.	\$1,417.54		
				Quantity	Unit Price	Factor	Total
			Installation	600.00	\$1.84	1.2840	\$1,417.54
28	09 32 00 00 0003		SF	3/4" Portland Cement Plaster Scratch Coat for Wallsincludes 15# felt and expanded metal lath.	\$2,865.89		
				Quantity	Unit Price	Factor	Total
			Installation	600.00	\$3.72	1.2840	\$2,865.89
29	09 53 23 00 0004		SF	2' x 2' Grid, 15/16" T Bar Ceiling Suspension System	\$4,124.21		
				Quantity	Unit Price	Factor	Total
			Installation	2,200.00	\$1.46	1.2840	\$4,124.21
30	09 91 23 00 0064		SF	Paint Interior Plaster/Drywall, 2 Coats Paint, Brush/Roller Work	\$1,088.83		
				Quantity	Unit Price	Factor	Total
			Installation	1,600.00	\$0.53	1.2840	\$1,088.83

Subtotal for 09 - Finishes: \$12,431.69

22 - Plumbing							
31	22 11 16 00 0164		EA	2", 125 LB, Galvanized Cast Iron Flange	\$726.41		
				Quantity	Unit Price	Factor	Total
			Installation	6.00	\$94.29	1.2840	\$726.41
32	22 11 16 00 0185		LF	3/4" Hard Drawn Type L Copper Tube/Pipe	\$588.07		
				Quantity	Unit Price	Factor	Total
			Installation	100.00	\$4.58	1.2840	\$588.07
33	22 11 16 00 0210		EA	3/4" 90 Degree Copper Elbow	\$166.02		
				Quantity	Unit Price	Factor	Total
			Installation	6.00	\$21.55	1.2840	\$166.02
34	22 11 16 00 0229		EA	3/4" 45 Degree Copper Elbow	\$172.42		
				Quantity	Unit Price	Factor	Total
			Installation	6.00	\$22.38	1.2840	\$172.42

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total	
22 - Plumbing						
35	22 11 16 00 0244	EA		3/4" Straight Copper Tee	\$256.16	
		Installation	Quantity	Unit Price	Factor	Total
			6.00 x	\$33.25 x	1.2840 =	\$256.16
36	22 11 16 00 0300	EA		3/4" Male Copper Adapter	\$106.32	
		Installation	Quantity	Unit Price	Factor	Total
			4.00 x	\$20.70 x	1.2840 =	\$106.32
37	22 11 16 00 0309	EA		3/4" Female Copper Adapter	\$110.94	
		Installation	Quantity	Unit Price	Factor	Total
			4.00 x	\$21.60 x	1.2840 =	\$110.94
38	22 11 16 00 0319	EA		3/4" Copper To Copper Union	\$137.95	
		Installation	Quantity	Unit Price	Factor	Total
			4.00 x	\$26.86 x	1.2840 =	\$137.95
39	22 11 16 00 0329	EA		3/4" Copper Cap	\$18.64	
		Installation	Quantity	Unit Price	Factor	Total
			4.00 x	\$3.63 x	1.2840 =	\$18.64
40	22 11 16 00 0582	LF		2" Schedule 80 CPVC Pressure Pipe	\$1,061.61	
		Installation	Quantity	Unit Price	Factor	Total
			120.00 x	\$6.89 x	1.2840 =	\$1,061.61
41	22 13 16 00 0271	LF		2" No Hub Cast Iron Pipe	\$2,188.71	
		Installation	Quantity	Unit Price	Factor	Total
			180.00 x	\$9.47 x	1.2840 =	\$2,188.71
42	22 13 19 26 0036	EA		1000 Gallon Pre-Cast Grease Interceptor	\$4,148.31	
		Installation	Quantity	Unit Price	Factor	Total
			1.00 x	\$3,230.77 x	1.2840 =	\$4,148.31
43	22 15 13 00 0023	EA		300 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	\$5,920.82	
		Installation	Quantity	Unit Price	Factor	Total
			1.00 x	\$4,611.23 x	1.2840 =	\$5,920.82
44	22 47 13 00 0015	EA		Stainless Steel Semi-Recessed Indoor Drinking Fountain With Bubbler And Cuspidor (Halsey-Taylor 5801C)	\$3,579.73	
		Installation	Quantity	Unit Price	Factor	Total
			1.00 x	\$2,705.10 x	1.2840 =	\$3,473.35
		Demolition	Quantity	Unit Price	Factor	Total
			1.00 x	\$82.85 x	1.2840 =	\$106.38
Subtotal for 22 - Plumbing:					\$19,182.11	

23 - Heating, Ventilating, And Air-Conditioning (HVAC)						
45	23 05 93 00 0016	EA		Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser	\$1,577.52	
		Installation	Quantity	Unit Price	Factor	Total
			20.00 x	\$61.43 x	1.2840 =	\$1,577.52
46	23 05 93 00 0026	EA		Balance Dampers	\$351.56	
		Installation	Quantity	Unit Price	Factor	Total
			20.00 x	\$13.69 x	1.2840 =	\$351.56
47	23 07 13 00 0004	SF		1-1/2" Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation	\$1,807.87	
		Installation	Quantity	Unit Price	Factor	Total
			800.00 x	\$1.76 x	1.2840 =	\$1,807.87

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total
23 - Heating, Ventilating, And Air-Conditioning (HVAC)					
48	23 21 13 23 0004		LF	3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly/Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	\$1,311.22
			Installation	Quantity 120.00 x Unit Price \$8.51 x Factor 1.2840 =	Total \$1,311.22
49	23 21 13 23 0207		LF	1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly/Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	\$2,479.15
			Installation	Quantity 120.00 x Unit Price \$16.09 x Factor 1.2840 =	Total \$2,479.15
50	23 31 13 13 0004		LB	Sheet Metal Ductwork, Medium Pressure, Field Fabricated, Galvanized, Field Assemble And Install	\$3,620.88
			Installation	Quantity 500.00 x Unit Price \$5.64 x Factor 1.2840 =	Total \$3,620.88
51	23 74 13 00 0005		EA	5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit/Electric load approximately 1/2 the cooling capacity.	\$13,480.20
			Installation	Quantity 2.00 x Unit Price \$5,249.30 x Factor 1.2840 =	Total \$13,480.20
Subtotal for 23 - Heating, Ventilating, And Air-Conditioning (HVAC):					\$24,628.40
26 - Electrical					
52	26 05 13 00 0004		MLF	#6 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	\$5,703.22
			Installation	Quantity 2.00 x Unit Price \$2,220.88 x Factor 1.2840 =	Total \$5,703.22
53	26 05 13 00 0005		MLF	#4 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	\$7,046.57
			Installation	Quantity 2.00 x Unit Price \$2,743.99 x Factor 1.2840 =	Total \$7,046.57
54	26 05 13 00 0007		MLF	#1/0 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	\$8,060.35
			Installation	Quantity 1.00 x Unit Price \$4,464.57 x Factor 1.2840 =	Total \$5,732.51
			Demolition	Quantity 3.00 x Unit Price \$604.32 x Factor 1.2840 =	Total \$2,327.84
55	26 05 13 00 0030		MLF	#2 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation	\$9,032.70
			Installation	Quantity 2.00 x Unit Price \$3,027.79 x Factor 1.2840 =	Total \$7,775.36
			Demolition	Quantity 3.00 x Unit Price \$326.41 x Factor 1.2840 =	Total \$1,257.33
56	26 05 19 16 0271		MLF	#14 AWG Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$3,259.77
			Installation	Quantity 7.00 x Unit Price \$299.19 x Factor 1.2840 =	Total \$2,689.12
			Demolition	Quantity 7.00 x Unit Price \$63.49 x Factor 1.2840 =	Total \$570.65
57	26 05 23 00 0013		MLF	8/c #18 300 V Twisted Shielded Cable, In Conduit	\$12,467.78
			Installation	Quantity 6.00 x Unit Price \$1,562.96 x Factor 1.2840 =	Total \$12,041.04
			Demolition	Quantity 5.00 x Unit Price \$66.47 x Factor 1.2840 =	Total \$426.74

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total
26 - Electrical					
58	26 05 33 13 0006		CLF	1/2" EMT With 4 #10 THHN/THWN Assembly Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	\$3,043.31
			Installation	Quantity 6.00 x Unit Price \$395.03 x Factor 1.2840 =	Total \$3,043.31
59	26 05 33 13 0007		CLF	3/4" EMT With 3 #12 THHN/THWN Assembly Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	\$2,941.62
			Installation	Quantity 6.00 x Unit Price \$381.83 x Factor 1.2840 =	Total \$2,941.62
60	26 12 13 00 0046		EA	100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 V, 2 Taps, Oil Filled, 1 Phase	\$8,366.20
			Installation	Quantity 1.00 x Unit Price \$5,380.93 x Factor 1.2840 =	Total \$6,909.11
			Demolition	Quantity 1.00 x Unit Price \$1,134.80 x Factor 1.2840 =	Total \$1,457.08
61	26 21 13 00 0039		EA	2" Weatherproof Conduit Hubs	\$113.12
			Installation	Quantity 1.00 x Unit Price \$71.82 x Factor 1.2840 =	Total \$92.22
			Demolition	Quantity 1.00 x Unit Price \$16.28 x Factor 1.2840 =	Total \$20.90
62	26 24 13 00 0035		EA	400 Amp Distribution Switchboard With Main Switch, 480 V, 3 Phase, 3 Wire	\$4,536.65
			Installation	Quantity 1.00 x Unit Price \$3,041.78 x Factor 1.2840 =	Total \$3,905.65
			Demolition	Quantity 1.00 x Unit Price \$491.44 x Factor 1.2840 =	Total \$631.01
63	26 24 13 00 0064		EA	100-400 Amp MC Branch Breaker, 120 / 240 V	\$2,224.90
			Installation	Quantity 1.00 x Unit Price \$1,698.58 x Factor 1.2840 =	Total \$2,180.98
			Demolition	Quantity 1.00 x Unit Price \$34.21 x Factor 1.2840 =	Total \$43.93
64	26 24 16 00 0025		EA	100 Amp Rating, 12 - 20 Amp Breakers, 120/240 V, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity	\$1,947.82
			Installation	Quantity 1.00 x Unit Price \$906.49 x Factor 1.2840 =	Total \$1,163.93
			Demolition	Quantity 3.00 x Unit Price \$203.50 x Factor 1.2840 =	Total \$783.88
65	26 51 13 00 0108		EA	6 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture	\$7,872.20
			Installation	Quantity 25.00 x Unit Price \$226.79 x Factor 1.2840 =	Total \$7,279.96
			Demolition	Quantity 25.00 x Unit Price \$18.45 x Factor 1.2840 =	Total \$592.25
Subtotal for 26 - Electrical:					\$76,616.21
31 - Earthwork					
66	31 23 16 13 0007		CY	Excavation For Trenching By Hand In Soil Includes stockpiling excess materials and trimming sides and bottom of trench.	\$206.67
			Installation	Quantity 4.00 x Unit Price \$40.24 x Factor 1.2840 =	Total \$206.67
67	31 23 16 13 0010		CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine	\$8.94
			Installation	Quantity 4.00 x Unit Price \$1.74 x Factor 1.2840 =	Total \$8.94

Price Proposal Detail - CSI Continues..

Job Order Number:

Job Order Title:

Rec#	CSI Number	Mod.	UOM	Description	Line Total	
31 - Earthwork						
68	31 23 16 13 0011		CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand	\$57.42	
		Installation	Quantity	Unit Price	Factor	Total
			4.00 x	\$11.18 x	1.2840 =	\$57.42
69	31 23 16 13 0013		CY	Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera	\$12.38	
		Installation	Quantity	Unit Price	Factor	Total
			4.00 x	\$2.41 x	1.2840 =	\$12.38
70	31 23 16 13 0021		CY	Spread Excess Or Imported Material On Site With Machine	\$19.00	
		Installation	Quantity	Unit Price	Factor	Total
			10.00 x	\$1.48 x	1.2840 =	\$19.00
71	31 23 16 33 0003		CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil	\$38.26	
		Installation	Quantity	Unit Price	Factor	Total
			10.00 x	\$2.98 x	1.2840 =	\$38.26
72	31 23 16 33 0007		CY	Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine	\$36.59	
		Installation	Quantity	Unit Price	Factor	Total
			10.00 x	\$2.85 x	1.2840 =	\$36.59
73	31 23 16 33 0016		SY	Finish Grading for Bulk Excavation by Machine	\$6.16	
		Installation	Quantity	Unit Price	Factor	Total
			15.00 x	\$0.32 x	1.2840 =	\$6.16
74	31 23 16 36 0009		CY	Excavation For Building Foundations And Other Structures By Hand in Soil	\$206.67	
		Installation	Quantity	Unit Price	Factor	Total
			4.00 x	\$40.24 x	1.2840 =	\$206.67
75	31 23 16 36 0019		CY	Backfilling Around Building Foundations And Other Structures By Hand	\$98.46	
		Installation	Quantity	Unit Price	Factor	Total
			4.00 x	\$19.17 x	1.2840 =	\$98.46
76	31 23 16 36 0022		CY	Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand	\$64.77	
		Installation	Quantity	Unit Price	Factor	Total
			4.00 x	\$12.61 x	1.2840 =	\$64.76
77	31 23 16 36 0026		SY	Finish Grading For Building Foundations And Other Structures by Hand	\$71.84	
		Installation	Quantity	Unit Price	Factor	Total
			15.00 x	\$3.73 x	1.2840 =	\$71.84
78	31 23 16 36 0032		CY	Spread Excess Or Imported Material On Site By Hand	\$83.67	
		Installation	Quantity	Unit Price	Factor	Total
			4.00 x	\$16.29 x	1.2840 =	\$83.67

Subtotal for 31 - Earthwork: \$910.83

Proposal Total \$178,495.40

This proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

The Percent of NPP on this Proposal: 0.00%



Work Order #: 029011.00
Title: Villa Consuelo Senior Center Renovations
Contractor: CES/PSFA New Mexico - AnchorBuilt, Inc.
Proposal Value: \$98,471.46
Proposal Name: Base Bid Item 3 - Villa Consuelo Senior Center Improvements

www.eziqc.com

To: Project Manager **From:** Contractor Project Manager

01 - General Requirements:	\$13,761.91
06 - Wood, Plastic, and Composites:	\$912.93
07 - Thermal And Moisture Protection:	\$3,807.35
09 - Finishes:	\$7,910.61
10 - Specialties:	\$26.22
22 - Plumbing:	\$8,625.70
23 - Heating, Ventilating, And Air-Conditioning (HVAC):	\$29,201.33
26 - Electrical:	\$29,091.72
28 - Electronic Safety And Security:	\$5,133.69
Work Order Proposal Total	\$98,471.46

This work order proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

The Percent of NPP on this Proposal: 0.00%

PROPOSAL PACKAGE CHECKLIST

- | | | |
|---|--|-------|
| <input type="checkbox"/> Price Proposal | <input type="checkbox"/> Subcontractor List | _____ |
| <input type="checkbox"/> Schedule | <input type="checkbox"/> Non PP Backup | _____ |
| | <input type="checkbox"/> Drawings/Submittals | _____ |

Contractor Project Manager

Date

Job Order Contract
Contractor's Price Proposal Detail- CSI

Work Order #: 029011.00
 Title: Villa Consuelo Senior Center Renovations
 Contractor: CES/PSFA New Mexico - AnchorBuilt, Inc.
 Proposal Value: \$98,471.46
 Proposal Name: Base Bid Item 4 - Villa Consuelo Senior Center Improvements

CSI Number	Mod.	UOM	Description	Line Total		
01 - General Requirements						
1		EA	New Mexico Gross Receipts Tax – Varies by County	\$7,120.93		
			Quantity	Unit Price	Factor	Total
	Installation		7,120.93 x	\$1.00 x	1.0000 =	\$7,120.93
2		EA	Job Order Development Services	\$5,408.05		
			Quantity	Unit Price	Factor	Total
	Installation		5,408.05 x	\$1.00 x	1.0000 =	\$5,408.05
3		EA	New Mexico Gross Receipts Tax – Out of State Vendor	\$277.16		
			Quantity	Unit Price	Factor	Total
	Installation		277.16 x	\$1.00 x	1.0000 =	\$277.16
4		DAY	6 Ton Lift Hydraulic Crane With Full-Time Operator	\$955.77		
			Quantity	Unit Price	Factor	Total
	Installation		1.00 x	\$744.37 x	1.2840 =	\$955.77
Subtotal for 01 - General Requirements:				\$13,761.91		
06 - Wood, Plastic, and Composites						
5		LF	2" x 6" Wood Stud Framing, For Partition Walls	\$137.39		
			Quantity	Unit Price	Factor	Total
	Installation		100.00 x	\$1.07 x	1.2840 =	\$137.39
6		LF	2" x 6" Wood Plate	\$199.02		
			Quantity	Unit Price	Factor	Total
	Installation		100.00 x	\$1.55 x	1.2840 =	\$199.02
7		LF	2" x 8" Wood Plate	\$246.53		
			Quantity	Unit Price	Factor	Total
	Installation		100.00 x	\$1.92 x	1.2840 =	\$246.53
8		LF	2" x 6" Wood Blocking To Wood	\$329.99		
			Quantity	Unit Price	Factor	Total
	Installation		100.00 x	\$2.57 x	1.2840 =	\$329.99
Subtotal for 06 - Wood, Plastic, and Composites:				\$912.93		
07 - Thermal And Moisture Protection						
9		SQ	60 Mil, Single Ply TPO Roofing Membrane, Fully AdheredIncludes adhesive.	\$1,773.15		
			Quantity	Unit Price	Factor	Total
	Installation		8.00 x	\$172.62 x	1.2840 =	\$1,773.15
10		SQ	Acrylic, TPO Roofing Primer, Price Per Coat	\$739.01		
			Quantity	Unit Price	Factor	Total
	Installation		15.00 x	\$38.37 x	1.2840 =	\$739.01

Contractor's Price Proposal Detail- CSI Continued..

Work Order #: 029011.00
Title: Villa Consuelo Senior Center Renovations

CSI Number	Mod.	UOM	Description	Line Total		
07 - Thermal And Moisture Protection						
11	07 54 23 00-0015	SF	TPO Membrane Base Flashing	\$275.80		
			Quantity	Unit Price	Factor	Total
		Installation	60.00 x	\$3.58 x	1.2840 =	\$275.80
12	07 54 23 00-0016	SF	TPO Curb Flashing	\$289.67		
			Quantity	Unit Price	Factor	Total
		Installation	80.00 x	\$2.82 x	1.2840 =	\$289.67
13	07 59 00 00-0002	LF	Roofing Membrane Termination BarIncludes fasteners and caulking.	\$529.01		
			Quantity	Unit Price	Factor	Total
		Installation	200.00 x	\$2.06 x	1.2840 =	\$529.01
14	07 92 00 00-0002	CLF	1/4" x 1/4" Joint, Silicone Sealant And Caulking	\$200.71		
			Quantity	Unit Price	Factor	Total
		Installation	1.00 x	\$156.32 x	1.2840 =	\$200.71
Subtotal for 07 - Thermal And Moisture Protection:				\$3,807.35		
09 - Finishes						
15	09 29 00 00-0063	LF	>10' High, Vertical Corners, Tape, Spackle And Finish Gypsum BoardUse this task for the entire wall area when the wall is >10' high.	\$179.76		
			Quantity	Unit Price	Factor	Total
		Installation	200.00 x	\$0.70 x	1.2840 =	\$179.76
16	09 29 00 00-0066	LF	>10' High, Horizontal Corners, Tape, Spackle And Finish Gypsum BoardUse this task for the entire wall area when the wall is >10' high.	\$513.60		
			Quantity	Unit Price	Factor	Total
		Installation	500.00 x	\$0.80 x	1.2840 =	\$513.60
17	09 29 00 00-0073	LF	Casing, J-Bead For Gypsum Board	\$197.74		
			Quantity	Unit Price	Factor	Total
		Installation	100.00 x	\$1.54 x	1.2840 =	\$197.74
18	09 29 00 00-0074	LF	Corner Bead, Galvanized Metal For Gypsum Board	\$531.58		
			Quantity	Unit Price	Factor	Total
		Installation	300.00 x	\$1.38 x	1.2840 =	\$531.58
19	09 51 13 00-0018	SF	2' x 2' x 3/4" Mineral Fiber Acoustical Ceiling Panels	\$2,863.58		
			Quantity	Unit Price	Factor	Total
		Installation	1,260.00 x	\$1.56 x	1.2840 =	\$2,523.83
		Demolition	1,260.00 x	\$0.21 x	1.2840 =	\$339.75
20	09 53 13 00-0002	LF	2" Straight Section Axiom Perimeter Trim	\$583.96		
			Quantity	Unit Price	Factor	Total
		Installation	40.00 x	\$11.37 x	1.2840 =	\$583.96
21	09 53 23 00-0004	SF	2' x 2' Grid, 15/16" T Bar Ceiling Suspension System	\$2,653.26		
			Quantity	Unit Price	Factor	Total
		Installation	1,260.00 x	\$1.46 x	1.2840 =	\$2,362.05
		Demolition	1,260.00 x	\$0.18 x	1.2840 =	\$291.21
22	09 53 23 00-0010	LF	1" x 3/16" Flat Bar Bracing For Suspended Ceiling	\$387.13		
			Quantity	Unit Price	Factor	Total
		Installation	150.00 x	\$2.01 x	1.2840 =	\$387.13

Contractor's Price Proposal Detail- CSI Continued..

Work Order #: 029011.00
Title: Villa Consuelo Senior Center Renovations

CSI Number	Mod.	UOM	Description	Line Total
Subtotal for 09 - Finishes:				\$7,910.61
10 - Specialties				
23	10 14 23 00-0004	EA	Up To 25 SI, Adhesive Backed Vinyl, Surface Mount, Indoor/Outdoor Sign	\$26.22
		Installation	Quantity 2.00 x Unit Price \$10.21 x Factor 1.2840 = Total \$26.22	
Subtotal for 10 - Specialties:				\$26.22
22 - Plumbing				
24	22 11 16 00-0185	LF	3/4" Hard Drawn Type L Copper Tube/Pipe	\$1,176.14
		Installation	Quantity 200.00 x Unit Price \$4.58 x Factor 1.2840 = Total \$1,176.14	
25	22 11 16 00-0210	EA	3/4" 90 Degree Copper Elbow	\$415.05
		Installation	Quantity 15.00 x Unit Price \$21.55 x Factor 1.2840 = Total \$415.05	
26	22 11 16 00-0229	EA	3/4" 45 Degree Copper Elbow	\$431.04
		Installation	Quantity 15.00 x Unit Price \$22.38 x Factor 1.2840 = Total \$431.04	
27	22 11 16 00-0244	EA	3/4" Straight Copper Tee	\$640.40
		Installation	Quantity 15.00 x Unit Price \$33.25 x Factor 1.2840 = Total \$640.40	
28	22 11 16 00-0300	EA	3/4" Male Copper Adapter	\$398.68
		Installation	Quantity 15.00 x Unit Price \$20.70 x Factor 1.2840 = Total \$398.68	
29	22 11 16 00-0309	EA	3/4" Female Copper Adapter	\$416.02
		Installation	Quantity 15.00 x Unit Price \$21.60 x Factor 1.2840 = Total \$416.02	
30	22 11 16 00-0319	EA	3/4" Copper To Copper Union	\$1,034.65
		Installation	Quantity 30.00 x Unit Price \$26.86 x Factor 1.2840 = Total \$1,034.65	
31	22 11 16 00-0329	EA	3/4" Copper Cap	\$139.83
		Installation	Quantity 30.00 x Unit Price \$3.63 x Factor 1.2840 = Total \$139.83	
32	22 11 16 00-0582	LF	2" Schedule 80 CPVC Pressure Pipe	\$2,211.69
		Installation	Quantity 250.00 x Unit Price \$6.89 x Factor 1.2840 = Total \$2,211.69	
33	22 42 13 00-0092	EA	Remove And Reinstall Wall Hung Water Closet With Flush Valve	\$794.28
		Installation	Quantity 3.00 x Unit Price \$206.20 x Factor 1.2840 = Total \$794.28	
34	22 42 13 00-0095	EA	Remove And Reinstall Wall Hung Urinal With Flush Valve	\$275.23
		Installation	Quantity 1.00 x Unit Price \$214.35 x Factor 1.2840 = Total \$275.23	

Contractor's Price Proposal Detail- CSI Continued..

Work Order #: 029011.00
 Title: Villa Consuelo Senior Center Renovations

CSI Number	Mod.	UOM	Description	Line Total
22 - Plumbing				
35	22 42 16 00-0132	EA	Remove And Reinstall Wall Hung Lavatory With Faucet	\$692.69
		Installation	Quantity 4.00 x Unit Price \$134.87 x Factor 1.2840 = Total \$692.69	
Subtotal for 22 - Plumbing:				\$8,625.70
23 - Heating, Ventilating, And Air-Conditioning (HVAC)				
36	23 05 29 00-0007	EA	1-1/4" Steel Clevis Hanger (Cooper B-Line B3100)	\$582.42
		Installation	Quantity 40.00 x Unit Price \$11.34 x Factor 1.2840 = Total \$582.42	
37	23 05 29 00-0007	EA	1-1/4" Steel Clevis Hanger (Cooper B-Line B3100)	\$291.21
		Installation	Quantity 20.00 x Unit Price \$11.34 x Factor 1.2840 = Total \$291.21	
38	23 05 29 00-0008	EA	1-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	\$236.87
		Installation	Quantity 16.00 x Unit Price \$11.53 x Factor 1.2840 = Total \$236.87	
39	23 05 29 00-0008	EA	1-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	\$296.09
		Installation	Quantity 20.00 x Unit Price \$11.53 x Factor 1.2840 = Total \$296.09	
40	23 05 93 00-0016	EA	Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser	\$2,208.53
		Installation	Quantity 28.00 x Unit Price \$61.43 x Factor 1.2840 = Total \$2,208.53	
41	23 05 93 00-0026	EA	Balance Dampers	\$386.72
		Installation	Quantity 22.00 x Unit Price \$13.69 x Factor 1.2840 = Total \$386.72	
42	23 07 13 00-0004	SF	1-1/2" Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation	\$1,988.66
		Installation	Quantity 880.00 x Unit Price \$1.76 x Factor 1.2840 = Total \$1,988.66	
43	23 09 23 00-0092	EA	Install And Wire Exhaust Fan Thermostat Control	\$184.05
		Installation	Quantity 2.00 x Unit Price \$71.67 x Factor 1.2840 = Total \$184.05	
44	23 09 23 00-0175	EA	Building Manager, Monitor And Control HVAC Equipment (Honeywell W7760A2011)	\$931.62
		Installation	Quantity 1.00 x Unit Price \$725.56 x Factor 1.2840 = Total \$931.62	
45	23 09 23 00-0537	EA	Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH8321)	\$561.16
		Installation	Quantity 2.00 x Unit Price \$218.52 x Factor 1.2840 = Total \$561.16	

Contractor's Price Proposal Detail- CSI Continued..

Work Order #: 029011.00
Title: Villa Consuelo Senior Center Renovations

CSI Number	Mod.	UOM	Description	Line Total
23 - Heating, Ventilating, And Air-Conditioning (HVAC)				
46	23 21 13 23-0004	LF	3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly/Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	\$600.98
		Installation	Quantity 55.00 x Unit Price \$8.51 x Factor 1.2840 = Total \$600.98	
47	23 21 13 23-0207	LF	1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly/Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	\$2,479.15
		Installation	Quantity 120.00 x Unit Price \$16.09 x Factor 1.2840 = Total \$2,479.15	
48	23 31 13 13-0004	LB	Sheet Metal Ductwork, Medium Pressure, Field Fabricated, Galvanized, Field Assemble And Install	\$6,590.00
		Installation	Quantity 910.00 x Unit Price \$5.64 x Factor 1.2840 = Total \$6,590.00	
49	23 34 16 00-0244	EA	701 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L700)	\$3,783.59
		Installation	Quantity 8.00 x Unit Price \$368.34 x Factor 1.2840 = Total \$3,783.59	
50	23 54 13 00-0008	EA	>2.5 To 3 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric FurnaceExcludes cooling equipment.	\$1,475.08
		Installation	Quantity 1.00 x Unit Price \$1,148.82 x Factor 1.2840 = Total \$1,475.08	
51	23 74 13 00-0024	EA	6 Ton Electric Cooling, 140 MBH Gas Heating, Self Contained Package Rooftop Unit	\$6,605.20
		Installation	Quantity 1.00 x Unit Price \$4,971.65 x Factor 1.2840 = Total \$6,383.60	
		Demolition	Quantity 1.00 x Unit Price \$172.59 x Factor 1.2840 = Total \$221.61	
Subtotal for 23 - Heating, Ventilating, And Air-Conditi				\$29,201.33
26 - Electrical				
52	26 05 13 00-0004	MLF	#6 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	\$2,851.61
		Installation	Quantity 1.00 x Unit Price \$2,220.88 x Factor 1.2840 = Total \$2,851.61	
53	26 05 13 00-0005	MLF	#4 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	\$3,523.28
		Installation	Quantity 1.00 x Unit Price \$2,743.99 x Factor 1.2840 = Total \$3,523.28	
54	26 05 19 16-0271	MLF	#14 AWG Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$1,152.48
		Installation	Quantity 3.00 x Unit Price \$299.19 x Factor 1.2840 = Total \$1,152.48	
55	26 05 19 16-0271	MLF	#14 AWG Cable - Type THHN-THWN 600 V Copper, Single Stranded, Placed In Conduit	\$1,152.48
		Installation	Quantity 3.00 x Unit Price \$299.19 x Factor 1.2840 = Total \$1,152.48	

Contractor's Price Proposal Detail- CSI Continued..

Work Order #: 029011.00
Title: Villa Consuelo Senior Center Renovations

CSI Number	Mod.	UOM	Description	Line Total
26 - Electrical				
56	26 05 23 00-0013	MLF	8/c #18 300 V Twisted Shielded Cable, In Conduit	\$6,020.52
		Installation	Quantity 3.00 x Unit Price \$1,562.96 x Factor 1.2840 = Total \$6,020.52	
57	26 05 33 13-0006	CLF	1/2" EMT With 4 #10 THHN/THWN Assembly includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	\$507.22
		Installation	Quantity 1.00 x Unit Price \$395.03 x Factor 1.2840 = Total \$507.22	
58	26 05 33 13-0007	CLF	3/4" EMT With 3 #12 THHN/THWN Assembly includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.	\$490.27
		Installation	Quantity 1.00 x Unit Price \$381.83 x Factor 1.2840 = Total \$490.27	
59	26 24 13 00-0035	EA	400 Amp Distribution Switchboard With Main Switch, 480 V, 3 Phase, 3 Wire	\$3,905.65
		Installation	Quantity 1.00 x Unit Price \$3,041.78 x Factor 1.2840 = Total \$3,905.65	
60	26 24 13 00-0064	EA	100-400 Amp MC Branch Breaker, 120 / 240 V	\$2,180.98
		Installation	Quantity 1.00 x Unit Price \$1,698.58 x Factor 1.2840 = Total \$2,180.98	
61	26 24 16 00-0025	EA	100 Amp Rating, 12 - 20 Amp Breakers, 120/240 V, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity	\$1,163.93
		Installation	Quantity 1.00 x Unit Price \$906.49 x Factor 1.2840 = Total \$1,163.93	
62	26 51 13 00-0128	EA	4 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture	\$6,143.30
		Installation	Quantity 25.00 x Unit Price \$191.38 x Factor 1.2840 = Total \$6,143.30	
Subtotal for 26 - Electrical:				\$29,091.72
28 - Electronic Safety And Security				
63	28 31 23 00-0078	EA	Intelligent Ionization Smoke Detector (EST3 SIGA-IS)	\$1,034.29
		Installation	Quantity 8.00 x Unit Price \$100.69 x Factor 1.2840 = Total \$1,034.29	
64	28 31 23 00-0119	EA	One Stage Fire Alarm Station, English Markings (EST3 SIGA-270)	\$1,178.40
		Installation	Quantity 8.00 x Unit Price \$114.72 x Factor 1.2840 = Total \$1,178.40	
65	28 31 23 00-0120	EA	Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P)	\$1,066.70
		Installation	Quantity 6.00 x Unit Price \$138.46 x Factor 1.2840 = Total \$1,066.70	
66	28 31 23 00-0542	EA	32 To 122 Degree F Heat Sensor (Simplex 4098-9733)	\$927.15
		Installation	Quantity 8.00 x Unit Price \$90.26 x Factor 1.2840 = Total \$927.15	

Contractor's Price Proposal Detail- CSI Continued..

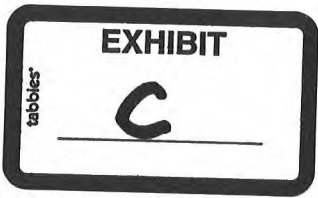
Work Order #: 029011.00
Title: Villa Consuelo Senior Center Renovations

CSI Number	Mod.	UOM	Description	Line Total										
28 - Electronic Safety And Security														
67	28 31 23 00-0542	EA	32 To 122 Degree F Heat Sensor (Simplex 4098-9733)	\$927.15										
			<table border="0"> <tr> <td>Installation</td> <td>Quantity</td> <td>Unit Price</td> <td>Factor</td> <td>Total</td> </tr> <tr> <td></td> <td>8.00 x</td> <td>\$90.26 x</td> <td>1.2840 =</td> <td>\$927.15</td> </tr> </table>	Installation	Quantity	Unit Price	Factor	Total		8.00 x	\$90.26 x	1.2840 =	\$927.15	
Installation	Quantity	Unit Price	Factor	Total										
	8.00 x	\$90.26 x	1.2840 =	\$927.15										
Subtotal for 28 - Electronic Safety And Security:				\$5,133.69										
Work Order Proposal Total				\$98,471.46										

This work order proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

The Percent of NPP on this Proposal: 0.00%

 Contractor Project Manager,

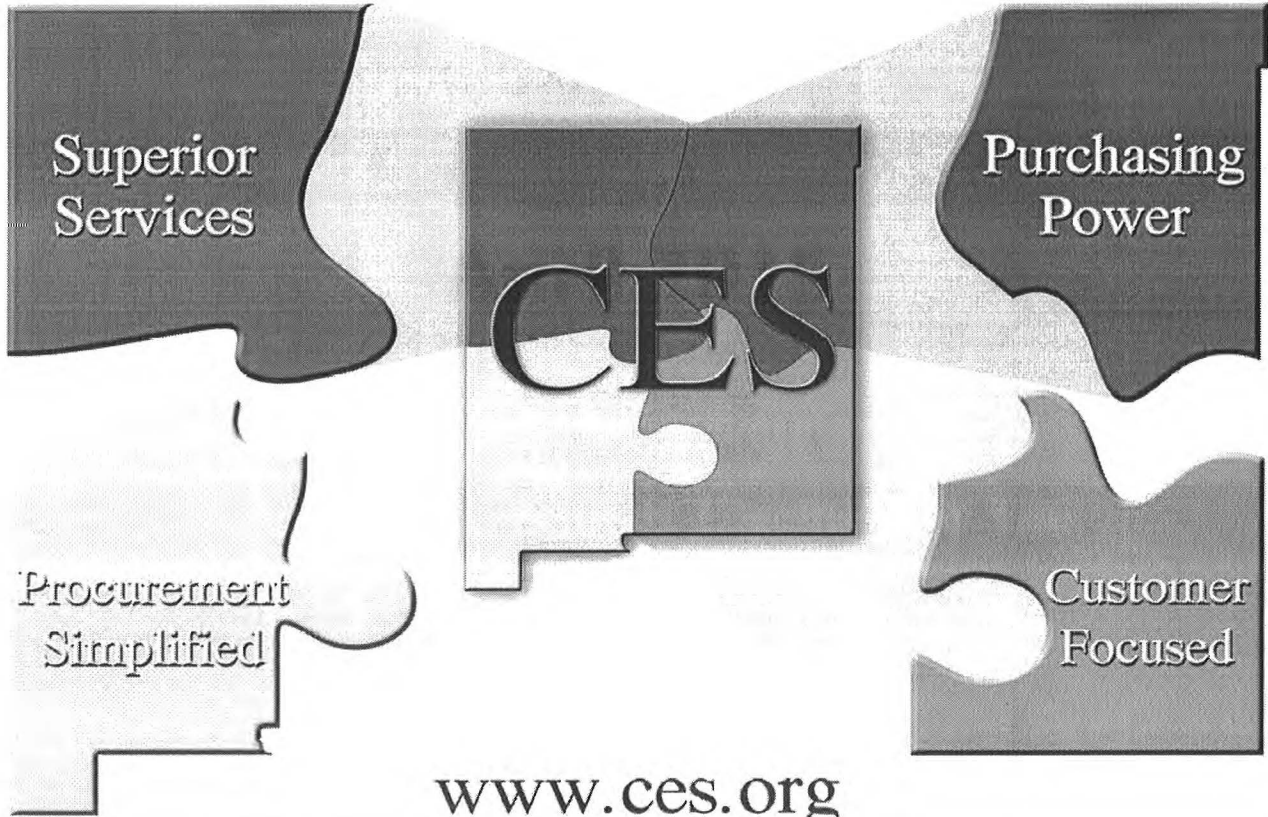


*Celebrating
35 Years*



YOUR New Mexico Purchasing Cooperative

Since 1979



www.ces.org

Bringing the Essentials Together For You

April 2015

**Procurement Services
Vendor Listing
Category Index**

4216 Balloon Park Rd NE
Albuquerque, NM 87109
Phone: 505-344-5470
Fax: 505-344-9343



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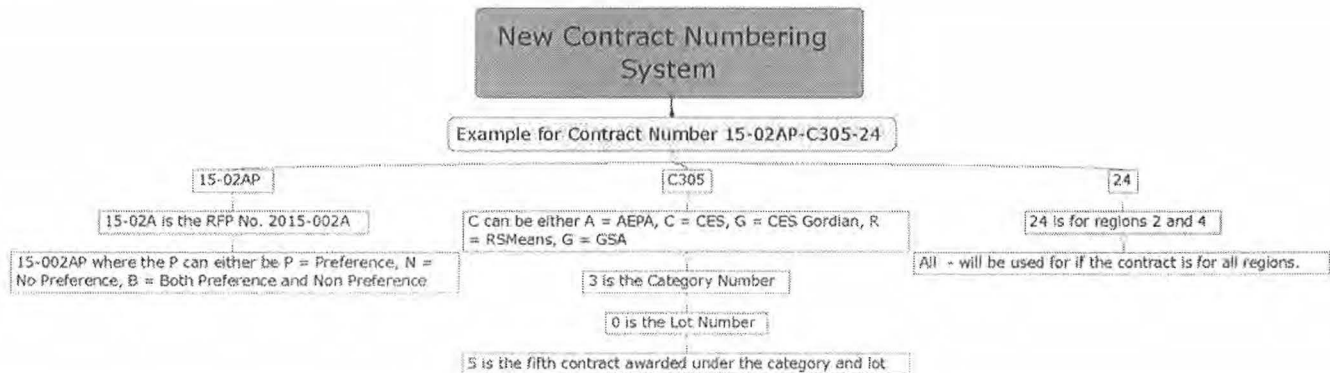


VENDOR LISTING OVERVIEW

The following pages list CES Procurement Partners who have responded to and received an award for a public solicitation for goods and services to meet our Members and Participating Entities needs. Procurement Partners may have been awarded one or more solicitations and, therefore, may have more than one contract listed. Awarded Procurement Partners are listed in alphabetical order and the following information is provided for each:

- Company Name
- Primary Company Address
- Contact information for the individual identified as the sales representative, including telephone and toll free numbers, fax number, email address and company web site, if available.
- Contract listing, which includes the contract number and description of solicitation. The following make up the contract number:
 - Solicitation Number – Number CES assigns to each of its solicitations that is utilized to establish a contract with individual Procurement Partners (2012-001). The first four digits represent the fiscal year the solicitation was issued and awarded (2012). The last three digits represent the sequence during the year in which the solicitation was issued; (001 = the first solicitation issued and/or adopted from an outside source).
 - Category Number – The next six numbers represent the category assigned by CES.
 - Procurement Partner Short Name – Abbreviation assigned to each vendor (i.e. JDC for John Deere Company).
 - Solicitation Type – Indicates the type of solicitation utilized to acquire the products and services (RFP = Request for Proposal) or (RFB = Request for Bid).
 - Solicitation Originator – Indicates if the solicitation was issued by the Association of Educational Purchasing Agencies (AEPA), a multi-state association [A]; Cooperative Educational Services (CES) [C]; or the New Mexico State Purchasing Division (NM SPD) [N].
- Procurement Partners who have been awarded contracts to only provide their products and services in an identified CES Procurement Region will be indicated in the contract description, i.e. (Region 4). If no notation is made, they have been awarded all regions.
- General Procurement Partner overview providing a brief summary of the Procurement Partners’ areas of expertise.

For updated Procurement Partner and awarded contract information please call your designated Member Service Representative. (MSR contact information can be located on the back cover of the Bluebook)



ADDITIONAL SERVICES PROVIDED BY CES

In addition to procurement, Cooperative Educational Services provides a full range of services to support its Members and Participating Entities. These include:

- Ancillary Services (SLP, OT, PT, RT, SW, Psychologist, Diagnostician)
- Supplemental Employee Benefits
- Online Teacher Placement (NMREAP)
- Professional Services
- In-Service Training
- Annual Facility Managers' Training Workshop
- Annual Educational Symposium
- Medicaid Third-Party Billing for School-Based Health Services
- Needs Assessments

CES PROCUREMENT REGIONS



New Mexico is a large state geographically. For this reason, CES has divided the state into eight (8) procurement regions. CES asks respondents to solicitations to indicate in their response to which of these procurement regions of the State they wish to provide services. The eight procurement regions are described below:

Region One (1) – Aztec, Bloomfield, Central, Dulce, Farmington, Gallup-McKinley and Zuni School Districts; Navajo Preparatory School, Pine Hill Schools, San Juan College, Shiprock Associated Schools, and University of New Mexico - Gallup Branch

Region Two (2) – Chama Valley, Cuba, Española, Jemez Mountain School, Los Alamos, Mesa Vista, Pecos, Peñasco, Pojoaque Valley, Questa, Santa Fe and Taos School Districts; New Mexico School for the Deaf, Northern New Mexico College, Santa Fe Community College, Santa Fe Indian School, University of New Mexico - Los Alamos Branch and University of New Mexico – Taos Branch

Region Three (3) – Cimarron, Clayton, Des Moines, Las Vegas City, Maxwell, Mora, Mosquero, Raton, Roy, Santa Rosa, Springer, Wagon Mound and West Las Vegas School Districts; Luna Community College and New Mexico Highlands University

Region Four (4) – Albuquerque, Belen, Bernalillo, Estancia, Grants-Cibola, Jemez Valley, Los Lunas, Magdalena, Moriarty-Edgewood, Mountainair, Quemado, Rio Rancho, Socorro and Vaughn School Districts; Alamo Navajo School, New Mexico CYFD, New Mexico Institute of Mining and Technology, New Mexico State University at Grants, University of New Mexico and University of New Mexico - Valencia Campus

Region Five (5) – Clovis, Dora, Elida, Floyd, Fort Sumner, Grady, House, Logan, Melrose, Portales, San Jon, Texico and Tucumcari School Districts; Clovis Community College, Eastern New Mexico University and Mesalands Community College

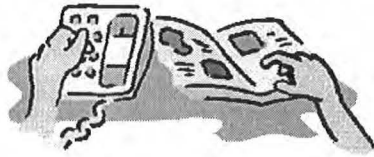
Region Six (6) – Artesia, Carlsbad, Dexter, Eunice, Hagerman, Hobbs, Jal, Lake Arthur, Loving, Lovington, Roswell and Tatum School Districts; Eastern New Mexico University-Roswell, New Mexico Junior College, New Mexico Military Institute and New Mexico State University at Carlsbad

Region Seven (7) – Alamogordo, Capitan, Carrizozo, Cloudcroft, Corona, Hondo Valley, Ruidoso and Tularosa School Districts; Mescalero Apache School, New Mexico School for the Blind and Visually Impaired and New Mexico State University at Alamogordo

Region Eight (8) – Animas, Cobre, Deming, Gadsden, Hatch Valley, Las Cruces, Lordsburg, Reserve, Silver and Truth or Consequences School Districts; New Mexico State University and Western New Mexico University

Note: CES utilizes the public school district service areas to identify each of its procurement regions. Other public educational institutions such as charter schools, community colleges, colleges and universities, BIE schools and Participating Entities are considered to be in the region of the public school district where their institution is physically located. A listing of CES Members and Participating Entities may be viewed by going to www.ces.org.

What is the process for ordering through CES?



Select Procurement Partner (Vendor) from CES Blue Book;

Contact Procurement Partner and request quote;

Create Purchase Order (PO) to CES, referencing selected Procurement Partner; and

Send PO and quote to CES.

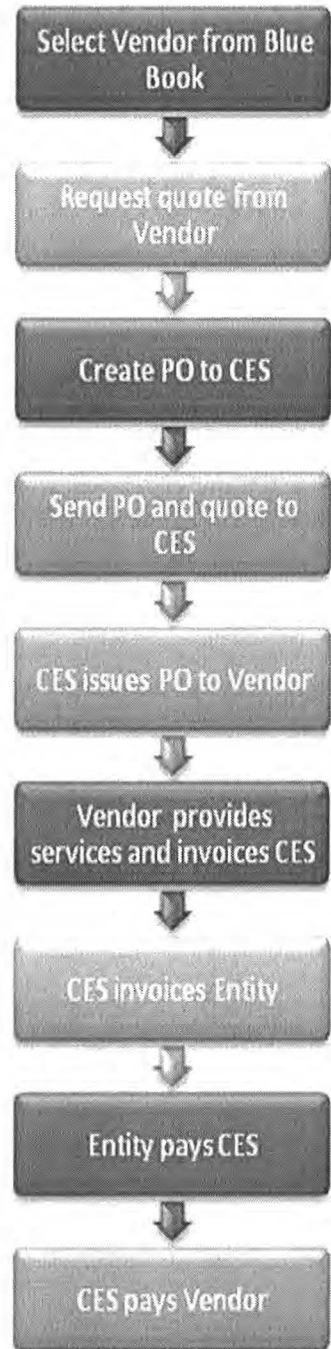
CES will check pricing against our contract, verify all required paperwork has been received from Procurement Partner and issue PO to Procurement Partner from CES.

Procurement Partner will provide services to Entity and will invoice CES.

CES will invoice Entity.

Entity will pay CES.

CES will pay Procurement Partner.



For any other questions regarding doing business with CES, please contact our Business Office (505) 344-5470 or your Member Service Representative.

Additional Purchasing Information

There are three ways to use CES' Cooperative Procurement. 1) Select an appropriate Procurement Partners/Vendors listed in our Blue Book alphabetically by Vendor name, or the products, services, or construction listed in the Index as needed. 2) Order online directly with available Vendors that are listed in the 'Online Ordering' section below. These Vendors display a computer icon by their name in the Blue Book. 3) Food items can be purchased from our selected companies by issuing a blanket purchase order to CES and then ordering directly from the food vendor.



Blue Book Orders

If you are not sure of the price or item number, call the vendor's contact person listed in the Blue Book to receive assistance. If you do not know the vendor, you may try searching online at www.ces.org. If you need other assistance in procurement, please call your CES Member Service Representative (MSR).

Once you know what you want to order, have selected a vendor and have received accurate prices and item numbers, submit your purchase order and the vendor's quote to CES for the products and/or services needed. Within your purchase order list the CES vendor's name and contract number to clearly identify who you are placing the order with. The PO needs to be made out to CES.

When CES receives your purchase order, prices will be verified with the vendor's CES contract. A CES purchase order will then be sent to the vendor.

The vendor will ship your order directly to you. Your purchase order number will appear on the shipping label to facilitate verification of the order. At the time of shipment, the vendor will invoice CES.

When CES receives the vendor's invoice, prices will be verified against CES' purchase order. Upon this verification, CES will generate an invoice. It should be noted that the CES one percent (1%) administrative fee is included in the vendor's prices for most of the products and services offered.

After you receive CES' invoice, prepare a voucher and send your payment to CES. CES will then remit payment to the vendor. CES does not pay vendors until the Member/Participating Entity has paid CES.



Online Ordering

CES' online procurement option allows its Members/Participating Entities to place orders with selected vendors for school, office, art, science, janitorial, industrial, maintenance and computer supplies, computer equipment, printers, accessories, software, A/V equipment, etc., in a faster and easier way than through the traditional procurement method! CES Members/Participating Entities can go online and order directly from designated online vendors. If you want to use this option you will need to contact the vendor to get set up on their system under the CES contract.

Orders are processed and shipped through their regular channels. The vendor will invoice your organization directly. (Note: The CES administrative fee is included in the invoice price.) The following are the current CES authorized online vendors. Please contact the vendor's sales representative for details.

Baker Office Products
BSN Sports/Sports Supply Group
CDWG LLC
Childcraft Education Corp – School Specialty
Frey Scientific – School Specialty
Point Nationwide (Local Providers)
Quill Corporation

Sax Arts & Crafts – School Specialty
School Outfitters
Sportime, LLC – School Specialty
Staples
Sysco
Troxell Communications

Food Purchasing

Utilization of the food contract from CES eliminates the administrative functions and time required for bid preparation, solicitation, advertisement, evaluation and award process. It reduces the time required by a food service director or manager to perform these functions, thus creating time and labor savings. The ultimate goal of CES Food Procurement is to provide to its Members and Participating Entities the opportunity to acquire quality food at the best possible cost.

Food contracts are for an initial one-year period with 90-day price adjustments, contract expiration and any extensions are specified in the applicable RFP; additionally, milk prices are adjusted monthly and produce prices are adjusted weekly. Bid items reflect the needs and wants of the end user – the Members' food service department. Nutritional data is supplied by the vendor to CES and is available for any of the Members in preparation of the nutritional data books required by the USDA Student Nutrition Meal Programs.



Participating Entities



In accordance with the terms and conditions of its JPA, CES Board Policies and the New Mexico Procurement Code, CES has established another group of user agencies called "Participating Entities," utilizing a cooperative purchasing agreement. This agreement allows local public bodies and public agencies to take advantage of CES' cooperative purchasing program. There is no application fee for the entity; no annual membership fee for the entity; and there is a 1% administrative fee imbedded in the vendor's contract price.

The CES JPA provides for cooperative procurement in accordance with the New Mexico State Procurement Code. 13-1-135 NMSA 1978 of the procurement code also allows local public bodies and state agencies to take advantage of cooperative procurement through the CES JPA. While membership in the JPA is limited to public educational institutions, the Board Policy provides for non-member Participating Entities to use CES' programs. The following entities are allowed to enter into a Participating Entity agreement with CES.

- A. **Federal Agency [25 USC 3001 (4)]** is defined as any department, agency, or instrument of the United States, any executive department, military department, government corporation, government-controlled corporation, or other establishment in the executive branch of government, including the Executive Office of the President or any independent regulatory agency established through legislative and/or administrative action.
- B. **State Agency [13-1-90 NMSA 1978]** is defined as any department, commission, council, board, committee, institution, legislative body, agency, government corporation, educational institution or office of the executive, legislative or judicial branch of the government of this state. "State Agency" includes the purchasing division of the General Services Department (GSD) and the state purchasing agent, but does not include local public bodies.
- C. **Local Public Body [13-1-67 NMSA 1978]** is defined as a political subdivision of the state and its agencies, instruments and institutions thereof, including: two-year post-secondary educational institutions, school districts and local school boards and municipalities, except as exempted pursuant to the Procurement Code [13-1-28 NMSA 1978]
- D. **Non-Profit, Non-Public Educational institutions and other Non-Profit Organizations (Section 501(c)(3) of the Internal Revenue Code, Federal Tax Code)** is defined as charitable, religious, educational, public service, support and scientific organizations, entities, corporations that qualify as exempt organizations under Section 501(c)(3) of the Internal Revenue Code, or corresponding section of the Federal Tax Code.
- E. **Non-Profit, Non-Public Educational institutions and other Non-Profit Organizations (Section 501(c)(3) of the Internal Revenue Code, Federal Tax Code)** is defined as charitable, religious, educational, public service, support and scientific organizations, entities, corporations that qualify as exempt organizations under Section 501(c)(3) of the Internal Revenue Code, or corresponding section of the Federal Tax Code.

LEGAL AUTHORITY

The Procurement Code (Sections 13-1-98.A and 13-1-135) states that Cooperative Procurement is authorized and exempt from the Procurement Code as stated below:

Any state agency or local public body may either participate in, sponsor or administer a cooperative procurement agreement for the procurement of any services, construction or items of tangible personal property with any other state agency, local public body or external procurement unit in accordance with an agreement entered into and approved by the governing authority of each of the state agencies, local public bodies or external procurement units involved (11-1-1 to 11-1-7 NMSA 1978).

CES is formed by the Revised and Amended Joint Powers Agreement to Establish an Educational Cooperative (JPA), which specifically authorizes cooperative procurement. Every public school district in the State, as well as many universities, two-year colleges, charter schools, BIE schools and state educational institutions, are parties to the JPA as entered into by the governing body of each party. Membership is open to all public educational institutions in New Mexico. Each Member receives a copy of the JPA, CES Board Policy and CES Procurement Guidelines.

WAIT!

YOUR INPUT COUNTS! CES issues several multi-category RFBs and RFPs each year in an attempt to make procurement easier and more cost-effective for its Members and Participating Entities. The categories CES specifies in its solicitations are, in part, a product of comments received from our Members and Participating Entities. If something you are looking for is not listed in the CES Blue Book, please call us. CES will make an effort to include your requested products and services in its RFP/RFB cycle. Remember that purchasing from CES contracts streamlines your procurement process and provides you with lower prices. The more our Members/ Participating Entities use CES contracts, the more power CES gains in obtaining better future discounts from vendors.

EVALUATION COMMITTEE

CES invites and encourages its Members and Participating Entities to participate and get involved with the CES solicitation process. For each solicitation issued, CES facilitates, coordinates and invites end users (staff members of various agencies) to assist CES in the solicitation process. This allows the end users to have a say in the types, kinds, levels and quality of products, services and vendors that are offered through CES' procurement program. If you are interested in volunteering to serve on an evaluation committee, or would like more information, please let us know by contacting CES' procurement office.

OTHER SOURCES OF VENDORS

TexBuy External Procurement Agreement: Cooperative Educational Services (CES) has an External Procurement Agreement with Region 16 Education Service Center (TexBuy), located in Amarillo, Texas. The New Mexico Procurement Code allows for an agency in New Mexico (CES) to purchase from agencies outside New Mexico (IEC) without the New Mexico (CES) agency receiving RFPs or RFBs if certain conditions are met. CES and IEC have met the conditions and an External Procurement Agreement has been completed. This allows vendors under IEC contracts to supply products/services to schools in both states at the same cost. Through this Agreement, CES Members get the quantity discount afforded by combining all Member institutions in both states.

AEPA: Twenty-six educational service agencies across the United States have joined together to form the Association of Educational Purchasing Agencies (AEPA) to produce one collective Invitation for Bid (IFB) each year. From this IFB, a potential vendor prepares one response for approval by AEPA and award by members throughout the country. Through this single IFB, selected vendors are then able to provide their products and services to agencies serving more than 22 million students.

CES CONTRACT SUMMARY

The chart below shows when existing contracts will next be considered for renewal and their expiration dates. Contracts are renewed according to specific criteria. This chart is for informational purposes only, and CES may re-bid contracts or cancel vendors in its best judgment. Contact the CES procurement office for up-to-date information on solicitations.

Contract	Next Renewal	Expiration	Contract	Next Renewal	Expiration
2010-009 RFP C		04/30/2015	2013-013 RFP M	10/03/2015	10/02/2017
2010-012 RFP M		04/22/2015	2013-014 RFP C	04/01/2016	03/31/2017
2010-016 RFP M		09/30/2015	2013-015 RFP A	03/01/2016	02/28/2017
2011-003 RFP A		02/28/2016	2013-016 RFP C	04/15/2016	04/14/2017
2011-004 RFP M		08/22/2015	2013-017 RFP M	01/19/2016	01/18/2018
2011-005 RFP C		06/30/2015	2013-018 RFP M	09/14/2015	09/14/2016
2011-006 RFP C		06/30/2015	2013-019 RFP C	05/02/2015	05/02/2017
2011-007 RFP C		05/31/2015	2013-020 RFP C	08/01/2015	07/31/2017
2011-011 RFP M		01/30/2016	2013-021 RFP C	09/05/2015	09/05/2017
2011-014 RFP M		02/28/2016	2013-022 RFP C	09/05/2015	09/05/2017
2011-016 RFP M	04/22/2015	04/21/2016	2013-023 RFP C	05/08/2015	05/08/2016
2012-001A RFP C ■		01/02/2016	2013-024 RFP N	06/11/2015	06/10/2016
2012-0018 RFP C ■		01/02/2016	2013-026 RFP C ■	12/01/2015	11/30/2017
2012-001C RFP C ■		01/12/2016	2013-027 RFP C ■	12/01/2015	11/30/2017
2012-002 RFP C		01/08/2016	2013-028 RFP C ■	12/01/2015	11/30/2017
2012-003 RFP C	05/09/2015	05/08/2016	2013-029 RFP C ■	12/01/2015	11/30/2017
2012-004 RFP C		03/14/2016	2014-001 RFP C	04/16/2016	04/16/2018
2012-005 RFP A		02/28/2016	2014-002 RFP C	07/15/2015	07/14/2018
2012-011 RFP M	08/29/2015	08/28/2016	2014-004 RFP A	03/01/2016	02/28/2018
2012-012 RFP M		12/31/2016	2014-005 RFP C	04/01/2016	03/31/2018
2012-014 RFP C		01/12/2016	2014-006 RFP C	04/16/2016	04/16/2018
2012-015 RFP C	06/12/2015	06/11/2016	2014-008 RFP C	05/19/2015	05/18/2018
2012-016 RFP C	07/01/2015	06/30/2016	2014-010 RFP C	06/17/2015	06/17/2018
2012-017 RFP C	05/22/2015	05/21/2016	2014-011 RFP C		01/30/2016
2012-019 RFP M	01/12/2016	01/11/2017	2014-012 RFP N	05/09/2015	05/08/2016
2012-020 RFP M		05/16/2015	2014-013 RFP C	10/01/2015	09/30/2018
2012-022 RFP C	06/29/2015	06/28/2016	2014-014 RFP C	10/01/2015	09/30/2018
2012-024 RFP M	04/18/2016	04/17/2017	2014-015 RFP C	10/15/2015	10/15/2018
2012-025 RFP C	09/11/2015	09/10/2016	2014-016 RFP C	07/30/2015	07/29/2018
2012-027 RFP C	12/13/2015	12/12/2016	2014-018 RFP C		05/15/2015
2012-028 RFP M	04/13/2016	04/12/2017	15-01	01/25/2016	01/25/2019
2012-029 RFP C	09/24/2015	09/23/2016	15-02A	03/01/2016	03/01/2019
2012-030 RFP C	10/19/2015	10/18/2016	15-02B	03/01/2016	03/01/2019
2013-004 RFP C	01/09/2016	01/09/2017	15-02C	04/16/2016	04/17/2019
2013-006 RFP C	08/23/2015	08/22/2016	2015-003 RFP C		05/15/2015
2013-007 RFP A	03/01/2016	02/28/2017	2015-004 RFP C	05/06/2015	05/06/2019
2013-008 RFP M	08/25/2015	08/24/2017	2015-005 RFP C	08/31/2015	12/10/2018
2013-011 RFP C	04/15/2016	04/14/2017	15-06	03/01/2016	02/28/2019
2013-012 RFP M	05/24/2015	05/23/2017	2015-007 RFP C	08/30/2015	09/30/2019
			15-08A	02/28/2016	02/28/2019
			15-08B	02/28/2016	02/28/2019

A Indicates AEPA Contract

N Indicates NMSPD Contract

C and M Indicates CES Contract

■ Indicates Construction Contract

Award Extension Criteria

The CES/AEPA/IEC/PEPPM awards are for one, two or three years with the opportunity of extending contracts up to a total of five (5) years. It is CES' policy not to renew a contract if:

- After each year, the vendor has a dollar volume of less than One Thousand Dollars (\$1,000) or less than four (4) purchase orders.
- The vendor's products do not meet standards expected by CES Members and Participating Entities.
- The vendor's service is not up to the standards expected by CES Members and Participating Entities.
- The vendor's products and/or services are the subject of two (2) unresolved written complaints from CES Members or Participating Entities.
- The vendor has violated one or more Terms and Conditions of the award.
- CES has decided to re-bid this category and no contracts are being extended.

ALBUQUERQUE FREIGHTLINER SEE—LONESTAR FREIGHTLINER GROUP

ALBUQUERQUE WINDUSTRIAL CO.

Address: 6815 Washington NE, Albuquerque, NM 87109 Website: www.abqwindustrial.com
Contact: Paul Fastnacht Phone #: 505-821-2400 Toll Free #:
Email: pfastnacht@windustrial.com Fax #: 505-821-2444

Contract #	Solicitation Type / Category Description
2011-007 450-112 AWC	RFP C - Interior and Exterior Building, Construction, Maintenance Supplies, Materials, Tools, Hardware and Accessories

Albuquerque Windustrial is a locally owned, full-service wholesale distributor of pipe, valves, fittings, instrumentation, tanks, commercial fixtures, and commercial water heaters. They also stock strut, hangars, tools as well as all accessories associated with these product lines. In addition, Albuquerque Windustrial has a full service mechanical/fire protection fabrication shop which manufacturers grooved mechanical pipe, fittings and spool pieces.

ALLIED ELECTRIC, INC.

Address: 2892 Calle de Pinos Altos, Santa Fe, NM 87507
Contact: George Maestas Phone #: 505-438-8899 Toll Free #:
Email: alliedelectricinc@yahoo.com Fax #: 505-473-3712

Contract #	Solicitation Type / Category Description
2012-001C 914-422 ALEI	RFP C - On-Call Electrical Maintenance and Repair Services and Related Products (Individual Project Cost of Less than \$25,000) Region 2

Allied Electric, Inc. is an electrical contractor servicing Region 2. They provide on-call electrical maintenance and repair services. They are available 24/7 for emergency electrical repair services.

ALPHA BUILDING CORPORATION

Address: 24850 Blanco Road, San Antonio, TX 78260
Contact: Kathleen K. Acock Phone #: 210-491-9925 Toll Free #:
Email: kacock@alphabuilding.com Fax #: 210-491-9932
Contact: Rob Crow Phone #: 210-491-9925 Toll Free #:
Email: kacock@alphabuilding.com Fax #: 210-491-9932

Contract #	Solicitation Type / Category Description
2013-026 912-204 ALPBC	RFP C - Gordian - JOC General Construction (GB/GA/GF) Region 4
2013-026 912-208 ALPBC	RFP C - Gordian - JOC General Construction (GB/GA/GF) Region 8
2013-026 912-304 ALPBC	RFP C - RS Means - JOC General Construction (GB/GA/GF) Region 4
2013-026 912-308 ALPBC	RFP C - RS Means - JOC General Construction (GB/GA/GF) Region 8

Alpha Building Corporation is a highly qualified general contractor providing a full range of construction, remodeling, renovation and repair services to CES Members and Participating Entities in Regions 4 and 8. As a leading provider of Job Order Contracting services for several decades, their experienced staff can make the JOC process an easy, safe and cost effective way to make facility improvements. Contact them for improvement ideas to solve your most challenging facility needs. Alpha Building Corporation will get your work accomplished on time and in budget.

ANCHORBUILT, INC.

Address: P. O. Box 27688, Albuquerque, NM 87125
Contact: Roberta Zamora Phone #: 505-342-2452 Toll Free #:
Email: ray.zamora@anchorbuilt.com Fax #: 505-268-2612

Contract #	Solicitation Type / Category Description
2013-026 912-200 ABI	RFP C - Gordian - JOC General Construction (GB/GA/GF) Regions 1 through 8
2013-026 912-300 ABI	RFP C - RS Means - JOC General Construction (GB/GA/GF) Regions 1 through 8

AnchorBuilt has over 17 years experience in and knowledge of public school construction in NM. The company is known for the quality of work it provides to its customers. Our reputation for keeping costs within budget and minimizing change orders depicts our ability to manage costs. Our project approach will be jointly developed with your staff and the customers to specifically meet the unique needs of the project.

CONTACT INFORMATION

Phone: 505-344-5470 | Fax: 505-344-9343

Website: www.ces.org

VISIT THE COOPERATIVE EDUCATIONAL SERVICES OFFICE

4216 Balloon Park Road NE, Albuquerque, NM 87109-5801

CES PROCUREMENT PERSONNEL CONTACT INFORMATION

David Chavez	Executive Director david@ces.org
Robin Strauser	Deputy Executive Director robin@ces.org
Dotty McKinney	Procurement Manager dotty@ces.org
John Tortelli	Procurement and Contract Specialist johnt@ces.org
Rebecca Simenson	Procurement Assistant rebecca@ces.org
Joe Valencia	Finance Manager joe@ces.org
Lori O'Rourke	Business Services Coordinator lori@ces.org
Pam Reed	Member Service Representative School Districts: A-F Higher Education: CNM, Clovis Community College, ENMU, ENMU-Roswell, Me salands, New Mexico Highlands University, Northern New Mexico College, San Juan College, Santa Fe Community College, Western New Mexico University pam@ces.org Direct fax: 505-715-5821
Shannon Vescovo Parsons	Member Service Representative School Districts: G-P and Aztec shannon@ces.org Direct fax: 505-715-5822
Leslie Neely	Member Service Representative School Districts: Q-Z Higher Education: Luna Community College, New Mexico Institute of Mining and Technology, Dona Ana Community College, NMJC, NMSU, NMSU-Alamogordo, NMSU- Carlsbad, NMSU-Grants, UNM, UNM-Gallup, UNM-Los Alamos, UNM-Valencia leslie@ces.org Direct fax: 505-715-5824
Kelly Bassham	Member Service Representative Participating Entities (Cities, Counties and State Schools) kelly@ces.org Direct fax: 505-715-5823
Eva Gonzales	Member Service Representative Charter Schools and BIE Schools eva@ces.org Direct fax: 505-715-5824

Senior Center Improvements

LUISA SENIOR CENTER
1500 LUISA STREET
SANTA FE, NEW MEXICO 87505

VILLA CONSUELO SENIOR CENTER
1200 CAMINO CONSUELO STREET
SANTA FE, NEW MEXICO 87507

CODE ANALYSIS

Relevant Codes:
2009 New Mexico Commercial Building Code (CMBC) - Title 8, Chapter 3 Part 2
Adopted Model Code: 2009 International Building Code (IBC) as amended by N-323
2009 New Mexico Energy Conservation Code (NMECC) - Title 8, Chapter 3 Part 2
Adopted Model Code: 2009 International Energy Conservation Code (IECC) as amended by N-343
2009 New Mexico Existing Building Code (NMEBC) - Title 8, Chapter 3 Part 2
Adopted Model Code: 2009 International Existing Building Code (IEBC) as amended by N-373
Work is being performed per Chapter 3 - PREScriptive COMPLIANCE METHOD
Section 301 - Address
Section 302 - Alterations
Section 304 - As-built as applicable

2009 New Mexico Plumbing Code (NMPCC) - Title 8, Chapter 8 Part 2
Adopted Model Code: 2009 Uniform Plumbing Code (UPC) as amended by N-623
2009 New Mexico Mechanical Code (NMECC) - Title 8, Chapter 9 Part 2
Adopted Model Code: 2009 Uniform Mechanical Code (UMC) as amended by N-623
2009 New Mexico Electrical Code (NMECC) - Title 8, Chapter 10 Part 2
Adopted Model Code: 2009 National Electrical Code (NEC) as amended by N-643
New Mexico State Fire Marshal Office
Adopted Model Code: 2009 International Fire Code

LUISA SENIOR CENTER ADDITION ANALYSIS

Work is being performed per 2009 New Mexico Existing Building Code (NMEBC) - Title 8, Chapter 3 Part 2
Adopted Model Code: 2009 International Existing Building Code (IEBC) as amended by N-373
Chapter 3 - PREScriptive COMPLIANCE METHOD
Section 301 - Address
Section 302 - Alterations
Section 304 - As-built as applicable

FIRESTOPPING
All the proposed addition firestopping shall be provided to cut off all concealed shaft openings both vertical and horizontal and between a top story and the roof space. Firestopping shall be provided in the following locations:
1. In concealed spaces of steel walls and partitions, including framed spaces, at the ceiling and floor level.
2. At all interconnections between concealed vertical and horizontal spaces such as stair shafts, drop ceiling, cave ceilings, etc.
3. At openings around vents, pipes, ducts, chimneys of ceiling and floor levels, with noncombustible materials. Provide UL58 Firestop Compound or approved equal per manufacturer's instructions.
Except as provided in Item 3 above, firestopping shall consist of 2-inch nominal lumber, or two thicknesses of 2-inch nominal lumber with braced top joints, or one thickness of 2x12-inch wood structural panels with joints backed by 2x12-inch wood structural panels of one thickness of 3/4-inch particleboard or 5/8 inch gypsum board.

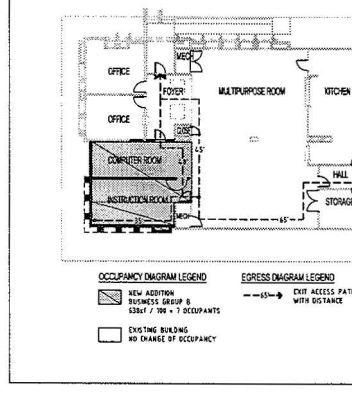
EXIT ACCESSIBILITY
Some areas of NMEBC IBC Chapter 10 or 2019 IBC Standards for Accessible Design (ADA) applies - whenever in more restrictive.
UFAS 4.3.1 (A) At least one accessible route from site boundary, public transportation stops, accessible parking spaces, bus stops/stands.
UFAS 4.3.1 (D) At least one accessible route shall connect accessible buildings, buildings, elements and spaces and remain in same line.
UFAS 4.3.1 (G) Accessible route - no protruding obstructions.

OCCUPANCY GROUP (see diagram)
CONSTRUCTION CLASSIFICATION
ALLOWABLE HEIGHT TABLE 503, A-3 USED 1 STORY (10 FT)
PROPOSED HEIGHT 1 STORY (10 FT)
ALLOWABLE FLOOR AREA TABLE 503, A-3 USED 6,000 SF
PROPOSED FLOOR AREA 6,000 SF
SEismic SITE CLASSIFICATION

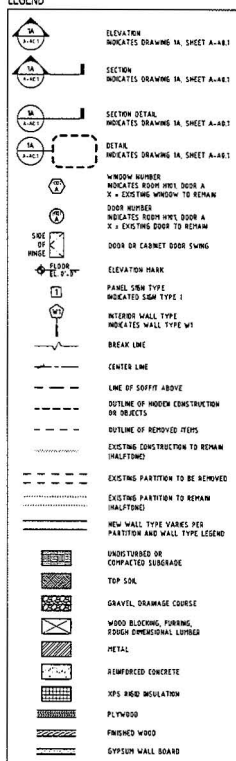
FIRE RESISTANCE RATINGS OF BUILDING ELEMENTS (TABLE 603)

PRIMARY STRUCTURAL FRAME 2 HOUR
BEARING WALLS - EXTERIOR 2 HOUR
BEARING WALLS - INTERIOR 2 HOUR
NONBEARING WALLS AND PARTITIONS - EXTERIOR 2 HOUR
FIRE SEPARATION DISTANCE = 39 FEET
NONBEARING WALLS AND PARTITIONS - INTERIOR 2 HOUR
FLOOR CONSTRUCTION AND SECONDARY MEMBERS 2 HOUR
ROOF CONSTRUCTION AND SECONDARY MEMBERS 2 HOUR

(F) 9963 Existing portable fire extinguishers are currently included at the following locations:
Minimum rated single 2-A:10-B:C extinguisher provided at entrance.



LEGEND



GENERAL NOTES

- USE THESE DRAWINGS TOGETHER WITH THE SPECIFICATIONS PREPARED FOR THIS PROJECT.
- ALL REFERENCES TO THE BUILDING CODE OR BUILDING DEPARTMENT SHALL BE CONSIDERED TO MEAN THE BUILDING CODE AS AMENDED BY THE CITY OF SANTA FE.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISED EDITIONS OF THE BUILDING CODE AND THE LATEST EDITIONS OF ALL OTHER APPLICABLE STATE AND LOCAL CODES, ORDINANCES AND STATUTES, UNLESS THE DRAWINGS OR SPECIFICATIONS TO BE CONSIDERED AS SUPPLEMENTING WORK CONTRACT TO THESE RULES, REGULATIONS AND CODES. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS AND ANY CITY COMPANY REQUIREMENTS. IN ALL CASES THE MOST RESTRICTIVE REQUIREMENTS SHALL APPLY.
- IF THE CONTRACTOR AGREES AT ANY TIME THAT REQUIREMENTS OF THIS CONTRACT CONFLICT WITH OR ARE IN VIOLATION OF APPLICABLE LOCAL CODES, REGULATIONS AND ORDINANCES, HE SHALL NOT PROCEED WITH ANY WORK UNLESS HE HAS OBTAINED WRITTEN APPROVAL FROM THE CITY ENGINEER. THE CITY ENGINEER'S APPROVAL SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF ANY WORK.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK.
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PROJECT TEAM

Owner:
CITY OF SANTA FE
FACILITIES DIVISION
2001 Sangoa Road, Building E
Santa Fe, NM 87504-0009

Architect of Record:
AUTOTROPH Inc.
422 Crisp Avenue
Santa Fe, NM 87501
phone: (505) 276-7555

Structural Engineering:
CHAVEZ GRIEVES
4700 Lincoln Road NE
Albuquerque, NM 87110
phone: (505) 544-9000

Mechanical / Plumbing:
M & E ENGINEERING, INC.
1222 Lucretia Street
Santa Fe, NM 87505
phone: (505) 963-3268

Electrical Engineering:
M & E ENGINEERING, INC.
1222 Lucretia Street
Santa Fe, NM 87505
phone: (505) 963-3268

CONSTRUCTION DRAWING INDEX

GENERAL	COVER SHEET	610
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L-002	REFLECTED GENERAL PLAN	
L-003	PROFF PLAN	
L-004	EXISTING ELEVATIONS	
L-005	ELEVATIONS	
L-006	SECTION - ADDITION	
L-007	SECTION - PORTAL	
L-008	DOOR DETAILS, WINDOW DETAILS	
L-009	DETAILS	
STRUCTURAL		
S-001	GENERAL STRUCTURAL NOTES	
S-002	FOUNDATION PLANS, BEARING PLANS	
S-003	STRUCTURAL DETAILS	
M-ELECTRICAL - ELECTRICAL - PLUMBING		
M-001	Mechanical LEGEND AND GENERAL NOTES	
M-002	Mechanical DESTRUCTION FLOOR PLAN	
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M-006	PLUMBING LEGEND AND GENERAL NOTES	
M-007	PLUMBING DESTRUCTION FLOOR PLAN	
M-008	PLUMBING FLOOR PLAN	
M-009	ELECTRICAL LEGEND AND GENERAL NOTES	
M-010	ELECTRICAL DESTRUCTION FLOOR PLAN	
M-011	ELECTRICAL FLOOR PLAN LEARNING	
M-012	ELECTRICAL FLOOR PLAN POWER	
M-013	ELECTRICAL RISER	
M-014	ELECTRICAL RISER	

SENIOR CENTER IMPROVEMENTS

LUISA SENIOR CENTER
1500 LUISA STREET
SANTA FE, NEW MEXICO 87505

VILLA CONSUELO SENIOR CENTER
1200 CAMINO CONSUELO STREET
SANTA FE, NEW MEXICO 87507

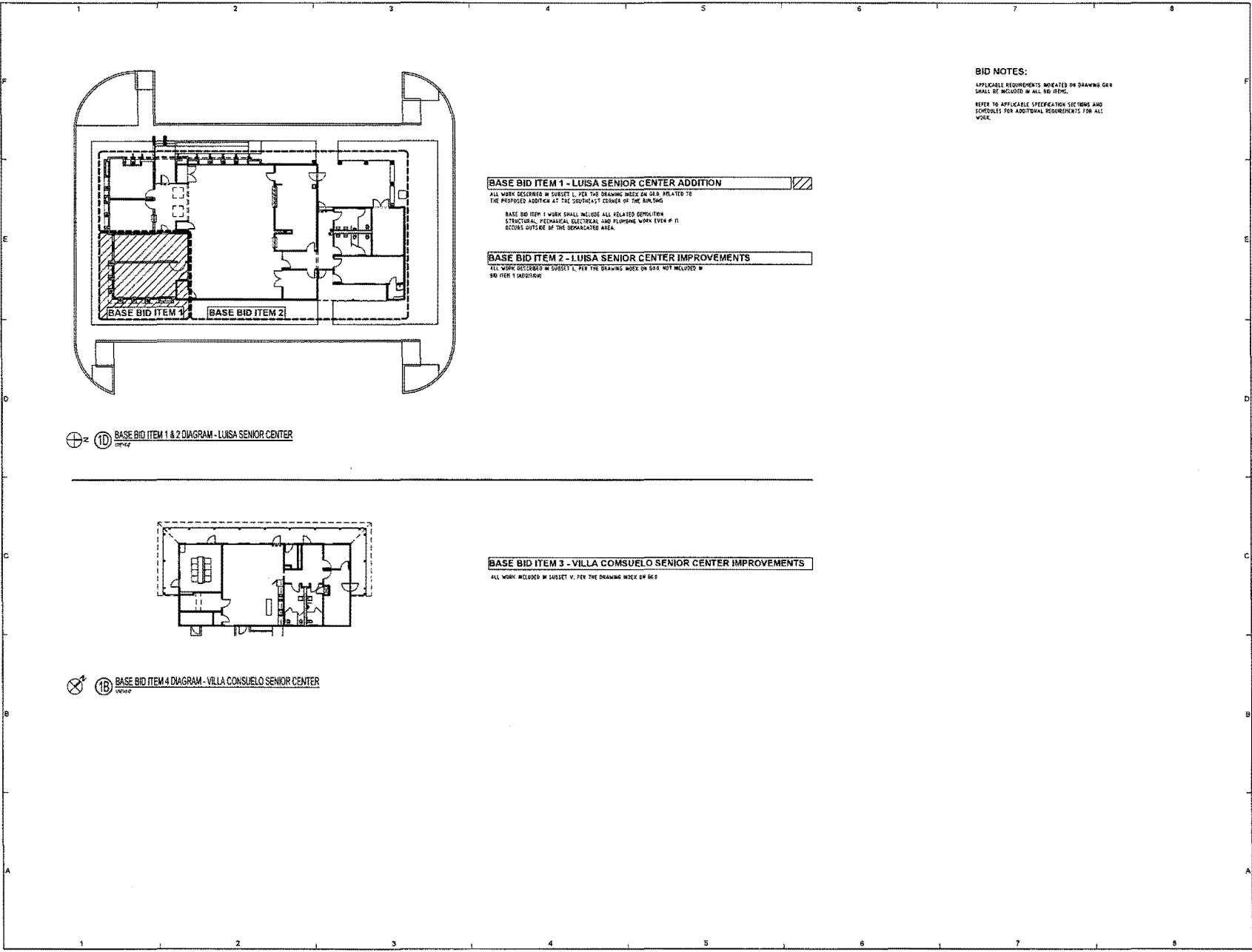
GENERAL COVER SHEET

SUBSET V - VILLA CONSUELO SENIOR CENTER

GENERAL	COVER SHEET	1310
V-001	EXISTING CONDITIONS AND RENOVALS PLAN	
V-002	FLOOR PLAN	
V-003	REFLECTED GENERAL PLAN	
M-ELECTRICAL - ELECTRICAL - PLUMBING		
M-001	Mechanical LEGEND AND GENERAL NOTES	
M-002	Mechanical DESTRUCTION FLOOR PLAN	
M-003	Mechanical FLOOR PLAN	
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M-006	PLUMBING LEGEND AND GENERAL NOTES	
M-007	PLUMBING DESTRUCTION FLOOR PLAN	
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M-010	ELECTRICAL DESTRUCTION FLOOR PLAN	
M-011	ELECTRICAL FLOOR PLAN LEARNING	
M-012	ELECTRICAL FLOOR PLAN POWER	
M-013	ELECTRICAL RISER	
M-014	ELECTRICAL RISER	

Project Number: 1310
Date: 15 JULY 2015

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BID NOTES:
 APPLICABLE REQUIREMENTS INDICATED ON DRAWING OR
 SHALL BE INCLUDED IN ALL BID ITEMS.
 REFER TO APPLICABLE SPECIFICATION SECTIONS AND
 SCHEDULES FOR ADDITIONAL REQUIREMENTS FOR ALL
 WORK.

BASE BID ITEM 1 - LUISA SENIOR CENTER ADDITION

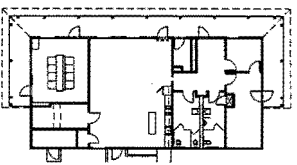
ALL WORK DESCRIBED IN SUBSET I, PER THE DRAWING WORK OR OLD RELATED TO
 THE PROPOSED ADDITION AT THE SOUTHWEST CORNER OF THE BUILDING

BASE BID ITEM 1 WORK SHALL INCLUDE ALL RELATED UTILITIES
 STRUCTURAL, MECHANICAL, ELECTRICAL AND FLOORING WORK EVEN IF IT
 OCCURS OUTSIDE OF THE DEMARCATED AREA.

BASE BID ITEM 2 - LUISA SENIOR CENTER IMPROVEMENTS

ALL WORK DESCRIBED IN SUBSET I, PER THE DRAWING WORK OR OLD NOT INCLUDED IN
 SO ITEM 1 ADDITIONS

⊕ 1B BASE BID ITEM 1 & 2 DIAGRAM - LUISA SENIOR CENTER
15/15/15



BASE BID ITEM 3 - VILLA CONSUELO SENIOR CENTER IMPROVEMENTS

ALL WORK INCLUDED IN SUBSET V, PER THE DRAWING WORK OR OLD

⊗ 1B BASE BID ITEM 4 DIAGRAM - VILLA CONSUELO SENIOR CENTER
15/15/15

No.	Description	Est.

SENIOR CENTER IMPROVEMENTS

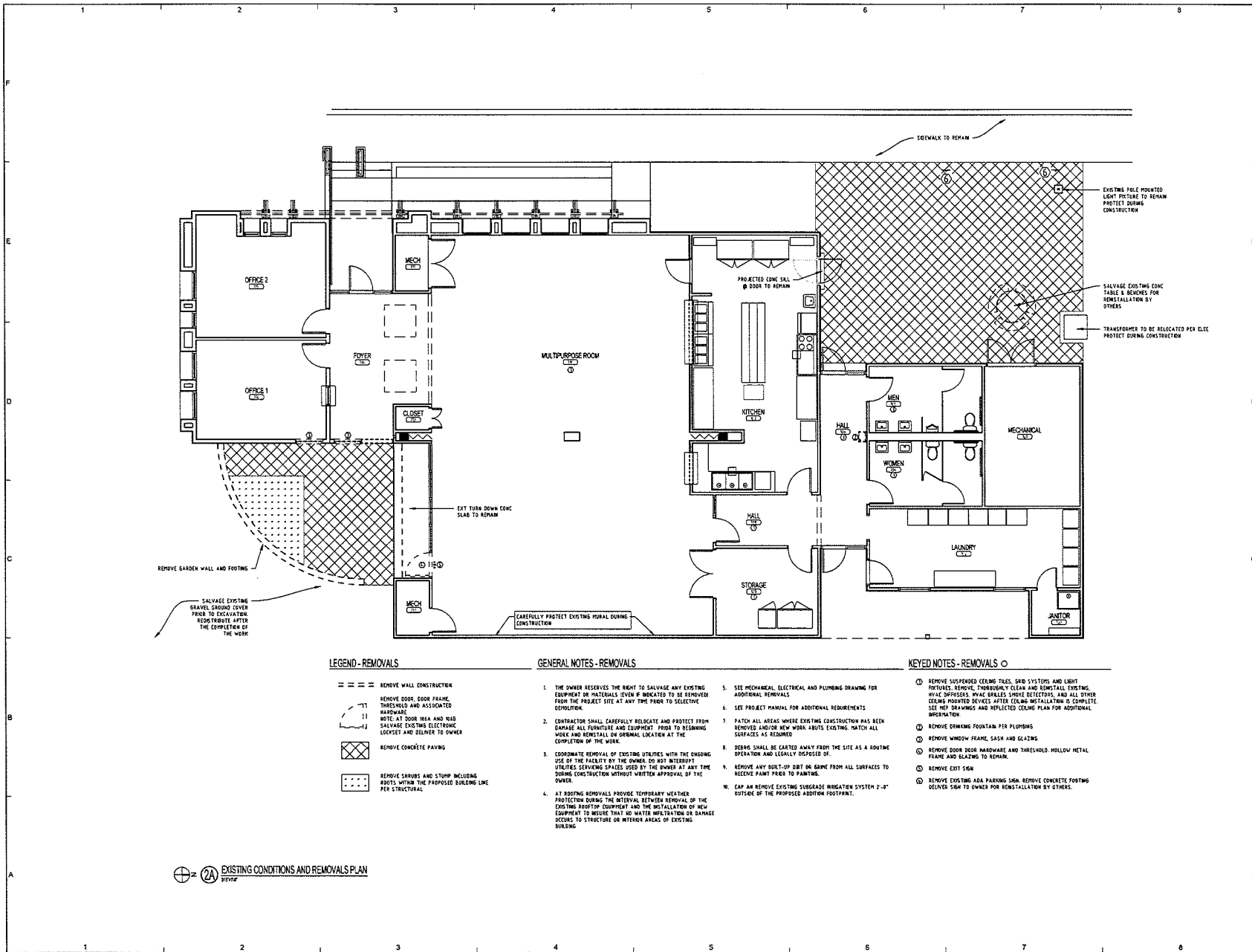
LUISA SCHMIDTKE DR 100 LUISA STREET SANTA FE, NM 87505	VILLA CONSUELO 208 WAGON DR C/O CORRAL CANYON, NM 87511 SANTA FE, NM 87505
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GENERAL

BID SCHEDULE

Project Number	1310
Date	15 JULY 2015

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LEGEND - REMOVALS

- ==== REMOVE WALL CONSTRUCTION
REMOVE DOOR, DOOR FRAME, THRESHOLD AND ASSOCIATED HARDWARE.
NOTE: AT DOOR THRESHOLD AND HHS SALVAGE EXISTING ELECTRONIC LOCKSET AND DELIVER TO OWNER
- XXXX REMOVE CONCRETE PAVING
- REMOVE SHRUBS AND STUMP INCLUDING ROOTS WITHIN THE PROPOSED BUILDING LINE PER STRUCTURAL

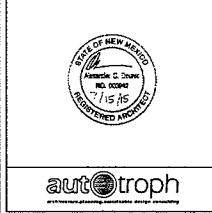
GENERAL NOTES - REMOVALS

1. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY EXISTING EQUIPMENT OR MATERIALS EVEN IF INDICATED TO BE REMOVED FROM THE PROJECT SITE AT ANY TIME PRIOR TO SELECTIVE DEMOLITION.
2. CONTRACTOR SHALL CAREFULLY RELOCATE AND PROTECT FROM DAMAGE ALL FURNITURE AND EQUIPMENT PRIOR TO BEGINNING WORK AND REINSTALL ON ORIGINAL LOCATION AT THE COMPLETION OF THE WORK.
3. COORDINATE REMOVAL OF EXISTING UTILITIES WITH THE ONGOING USE OF THE FACILITY BY THE OWNER. DO NOT INTERRUPT UTILITIES SERVING SPACES USED BY THE OWNER AT ANY TIME DURING CONSTRUCTION WITHOUT WRITTEN APPROVAL OF THE OWNER.
4. AT REMOVALS PROVIDE TEMPORARY WEATHER PROTECTION DURING THE INTERVAL BETWEEN REMOVAL OF THE EXISTING ROOFTOP EQUIPMENT AND THE INSTALLATION OF NEW EQUIPMENT TO INSURE THAT NO WATER INFILTRATION OR DAMAGE OCCURS TO STRUCTURE OR INTERIOR AREAS OF EXISTING BUILDING.
5. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWING FOR ADDITIONAL REMOVALS
6. SEE PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS
7. PATCH ALL AREAS WHERE EXISTING CONSTRUCTION HAS BEEN REMOVED AND/OR NEW WORK ADJUTS EXISTING. MATCH ALL SURFACES AS REQUIRED
8. DEBRIS SHALL BE CARRIED AWAY FROM THE SITE AS A ROUTINE OPERATION AND LEGALLY DISPOSED OF.
9. REMOVE ANY BOLT-UP BOLT OR NAIL FROM ALL SURFACES TO RECEIVE PAINT PRIOR TO PAINTING.
10. CAP AN REMOVE EXISTING SUBGRADE IRRIGATION SYSTEM 2'-0" OUTSIDE OF THE PROPOSED ADDITION FOOTPRINT.

KEYED NOTES - REMOVALS

- 1. REMOVE SUSPENDED CEILING TILES, GIRD SYSTEMS AND LIGHT FIXTURES. REMOVE THOROUGHLY CLEAN AND REINSTALL EXISTING, W/AVE DIFFUSERS. W/AVE GRATES, SMOKE DETECTORS, AND ALL OTHER CEILING MOUNTED DEVICES AFTER CEILING INSTALLATION IS COMPLETE. SEE MEP DRAWINGS AND REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION.
- 2. REMOVE EXISTING FOUNTAIN PER PLUMBING
- 3. REMOVE WINDOW FRAME, SASH AND GLAZING
- 4. REMOVE DOOR DOOR HARDWARE AND THRESHOLD. HOLLOW METAL FRAME AND GLAZING TO REMAIN.
- 5. REMOVE EXIT SIGN
- 6. REMOVE EXISTING ADA PARKING SIGN. REMOVE CONCRETE FOOTING BELIEVED SIGN TO OWNER FOR REINSTALLATION BY OTHERS.

2A EXISTING CONDITIONS AND REMOVALS PLAN



No.	Description	Date

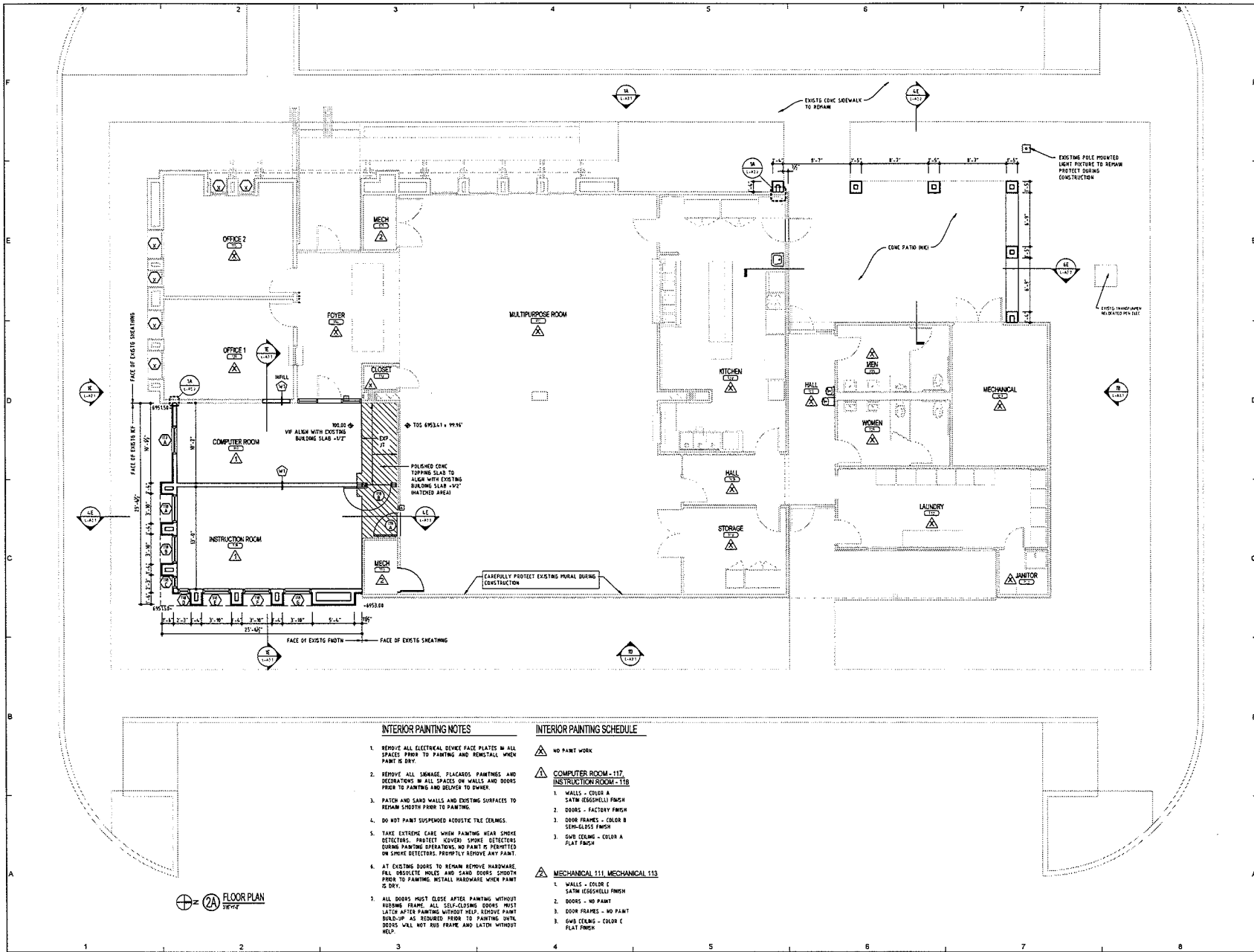
SENIOR CENTER IMPROVEMENTS

LUISA SENIOR CENTER VILLA CONSUELO
 1300 LUISA STREET 2800 WEST
 SANTA FE, NM 87505 SANTA FE, NM 87505

EXISTING CONDITIONS AND REMOVALS PLAN

Project No: 1310
 Date: 15 JULY 2015

L-A1.0



autotroph
interior painting • construction • design • remodeling

No.	Description	Date

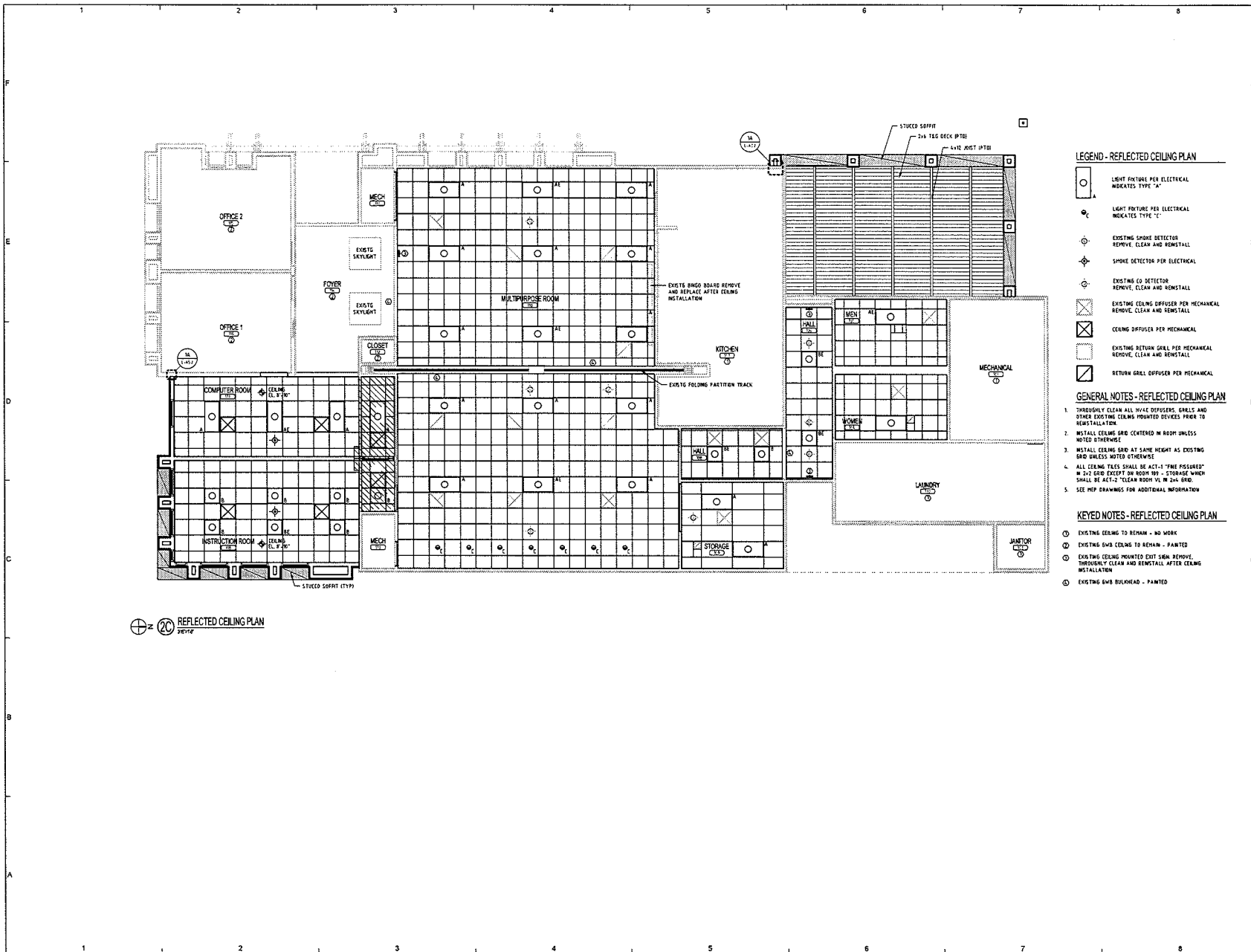
SENIOR CENTER IMPROVEMENTS

LUISA SENIOR CENTER VELA CONSULTING
 608 LUISA STREET 100 LUISA STREET
 SUITE 401, ALBUQUERQUE, NM 87102 SUITE 100, ALBUQUERQUE, NM 87102

**LUISA SENIOR CENTER
FLOOR PLAN**

Project Number: 1310
 Date: 15 JULY 2015

L-A1.1



LEGEND - REFLECTED CEILING PLAN

- LIGHT FIXTURE PER ELECTRICAL INDICATES TYPE "A"
- LIGHT FIXTURE PER ELECTRICAL INDICATES TYPE "C"
- EXISTING SMOKE DETECTOR REMOVE, CLEAN AND REINSTALL
- SMOKE DETECTOR PER ELECTRICAL
- EXISTING CO DETECTOR REMOVE, CLEAN AND REINSTALL
- EXISTING CEILING DIFFUSER PER MECHANICAL REMOVE, CLEAN AND REINSTALL
- CEILING DIFFUSER PER MECHANICAL
- EXISTING RETURN GRILL PER MECHANICAL REMOVE, CLEAN AND REINSTALL
- RETURN GRILL DIFFUSER PER MECHANICAL

GENERAL NOTES - REFLECTED CEILING PLAN

1. THOROUGHLY CLEAN ALL HVAC DIFFUSERS, GRILLS AND OTHER EXISTING CEILING MOUNTED DEVICES PRIOR TO REINSTALLATION.
2. INSTALL CEILING GRID CENTERED IN ROOM UNLESS NOTED OTHERWISE.
3. INSTALL CEILING GRID AT SAME HEIGHT AS EXISTING GRID UNLESS NOTED OTHERWISE.
4. ALL CEILING TILES SHALL BE ACT-1 "FINE PIGGYBACK" 1/2" G-2 GRID EXCEPT IN ROOM 109 - STORAGE WHICH SHALL BE ACT-2 "CLEAR ROOM VLS" 2x4 GRID.
5. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

KEYED NOTES - REFLECTED CEILING PLAN

1. EXISTING CEILING TO REMAIN - NO WORK
2. EXISTING GMB CEILING TO REMAIN - PAINTED
3. EXISTING CEILING POINTED EXIT SIGN REMOVE, THOROUGHLY CLEAN AND REINSTALL AFTER CEILING INSTALLATION
4. EXISTING GMB BULKHEAD - PAINTED

REFLECTED CEILING PLAN
REV 17



No.	Describe	Date

SENIOR CENTER IMPROVEMENTS

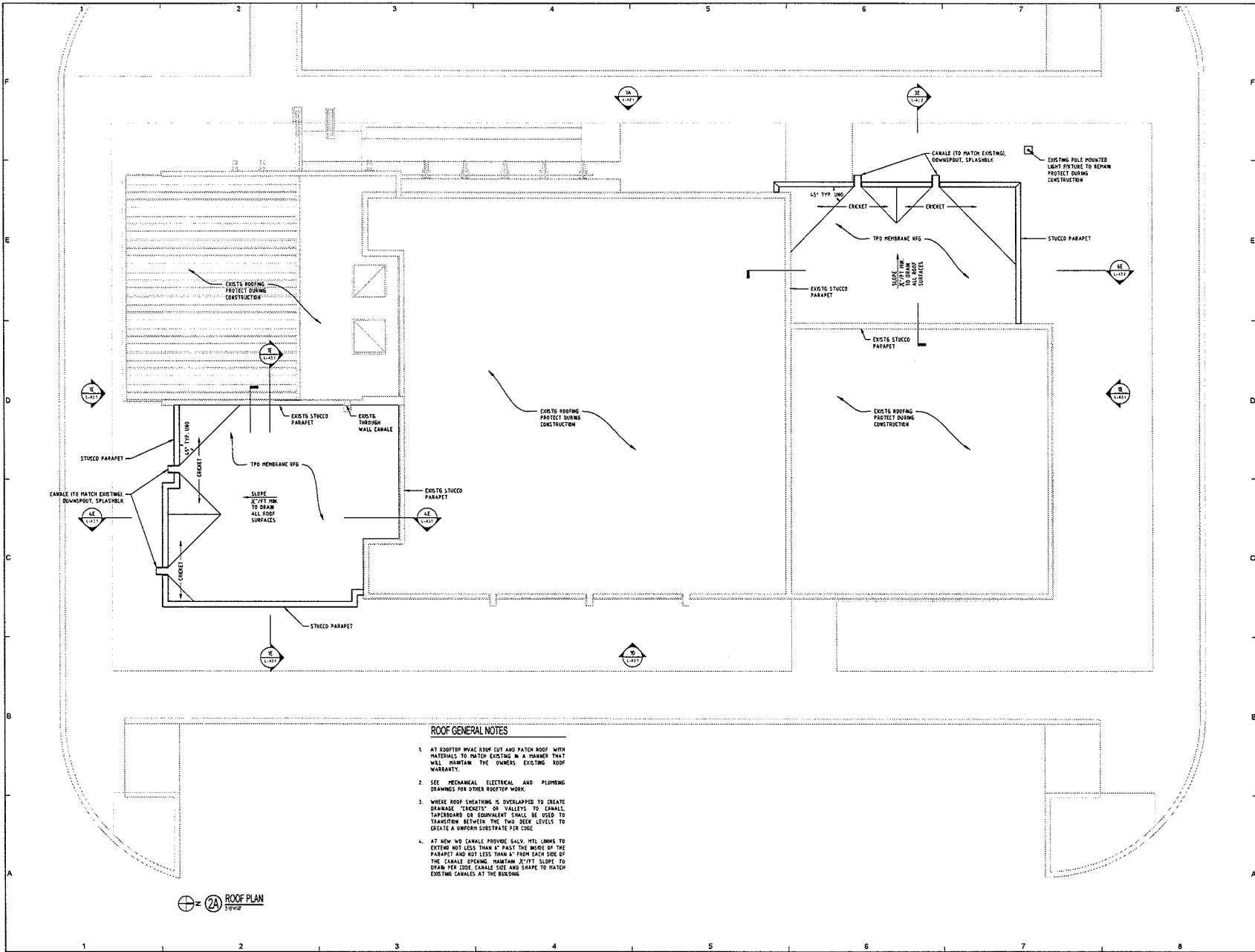
LUISA SENIOR CENTER
 2000 CAMDEN STREET
 SHAWNEE, NE 68402

VILLA CONGREGIO
 2000 CAMDEN STREET
 SHAWNEE, NE 68402

REFLECTED CEILING PLAN

Project Number: 13110
 Date: 15 JULY 2015

L-A1.2



- ROOF GENERAL NOTES**
1. AT ROOFTOP HVAC ROOF CUT AND PATCH ROOF WITH MATERIALS TO MATCH EXISTING IN A MANNER THAT WILL MAINTAIN THE OWNER'S EXISTING ROOF WARRANTY.
 2. SEE MECHANICAL ELECTRICAL AND PLUMBING DRAWINGS FOR OTHER ROOFTOP WORK.
 3. WHERE ROOF SHEATHING IS OVERLAPPED TO CREATE DRAINAGE "CRACKS" OR VALLEYS TO CANALS, TAPEBOARD OR EQUIVALENT SHALL BE USED TO TRANSITION BETWEEN THE TWO DECK LEVELS TO CREATE A UNIFORM SUBSTRATE PER CODE.
 4. AT NEW WD CANALS PROVIDE GALV. MET LINING TO EXTEND NOT LESS THAN 6" PAST THE INSIDE OF THE PARAPET AND NOT LESS THAN 6" FROM EACH SIDE OF THE CANAL OPENING. MAINTAIN 1/4" SLOPE TO DRAIN PER CODE. CANALS SIZE AND SHAPE TO MATCH EXISTING CANALS AT THE BUILDING.

⊕ 2A ROOF PLAN
3/15/15



autotroph
ARCHITECTS PLANNING DESIGN ENGINEERING

No.	Description	Date

SENIOR CENTER IMPROVEMENTS

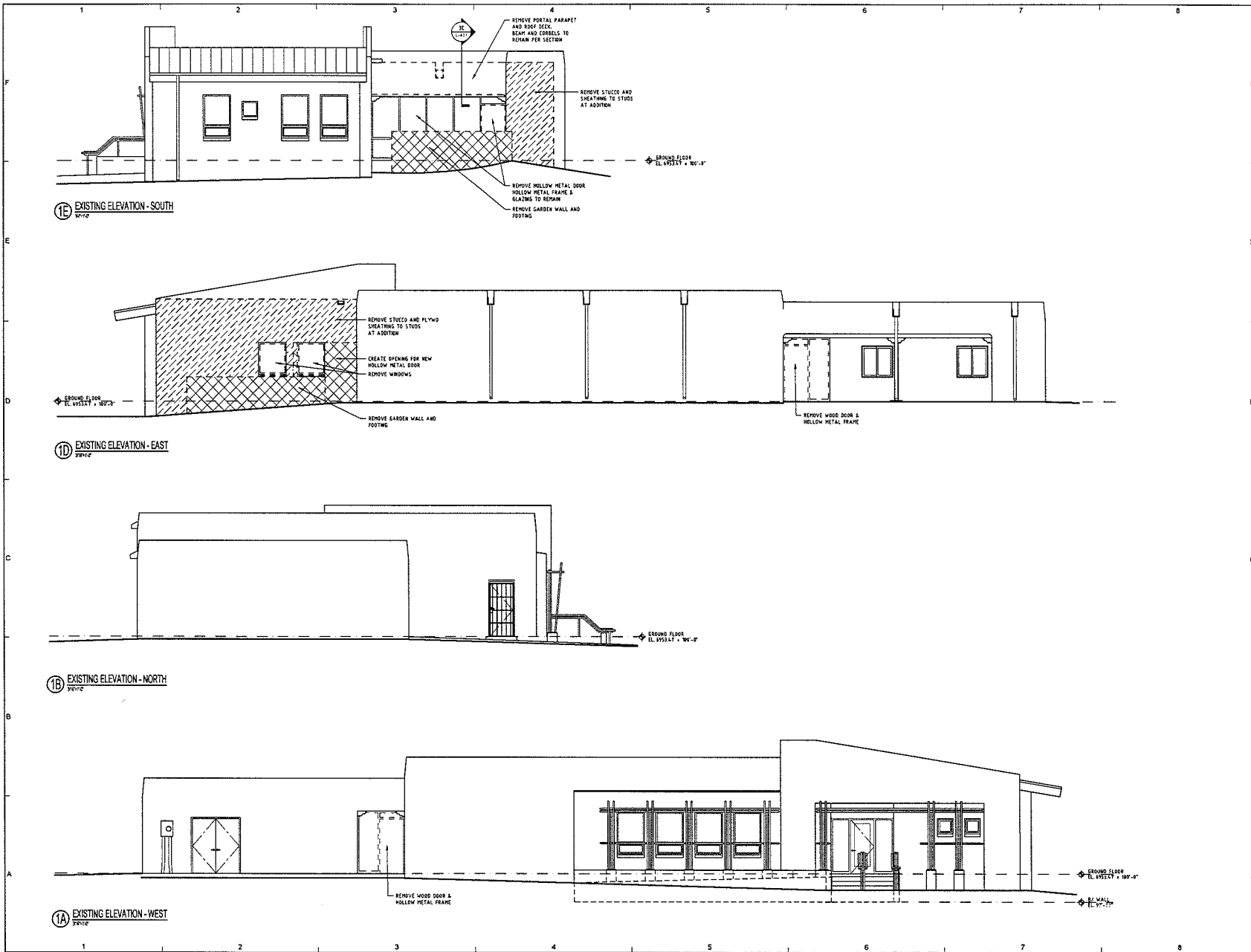
LUISA SENIOR CENTER
2500 W. 15TH STREET
SANTA FE, NM 87505

VELLA CONSULT
2500 W. 15TH STREET
SANTA FE, NM 87505

**LUISA SENIOR CENTER
ROOF PLAN**

Project number: 13110
Date: 15 JULY 2015

L-A1.3



autotroph
 Architecture Planning Construction Design Consulting

No.	Revised	Date

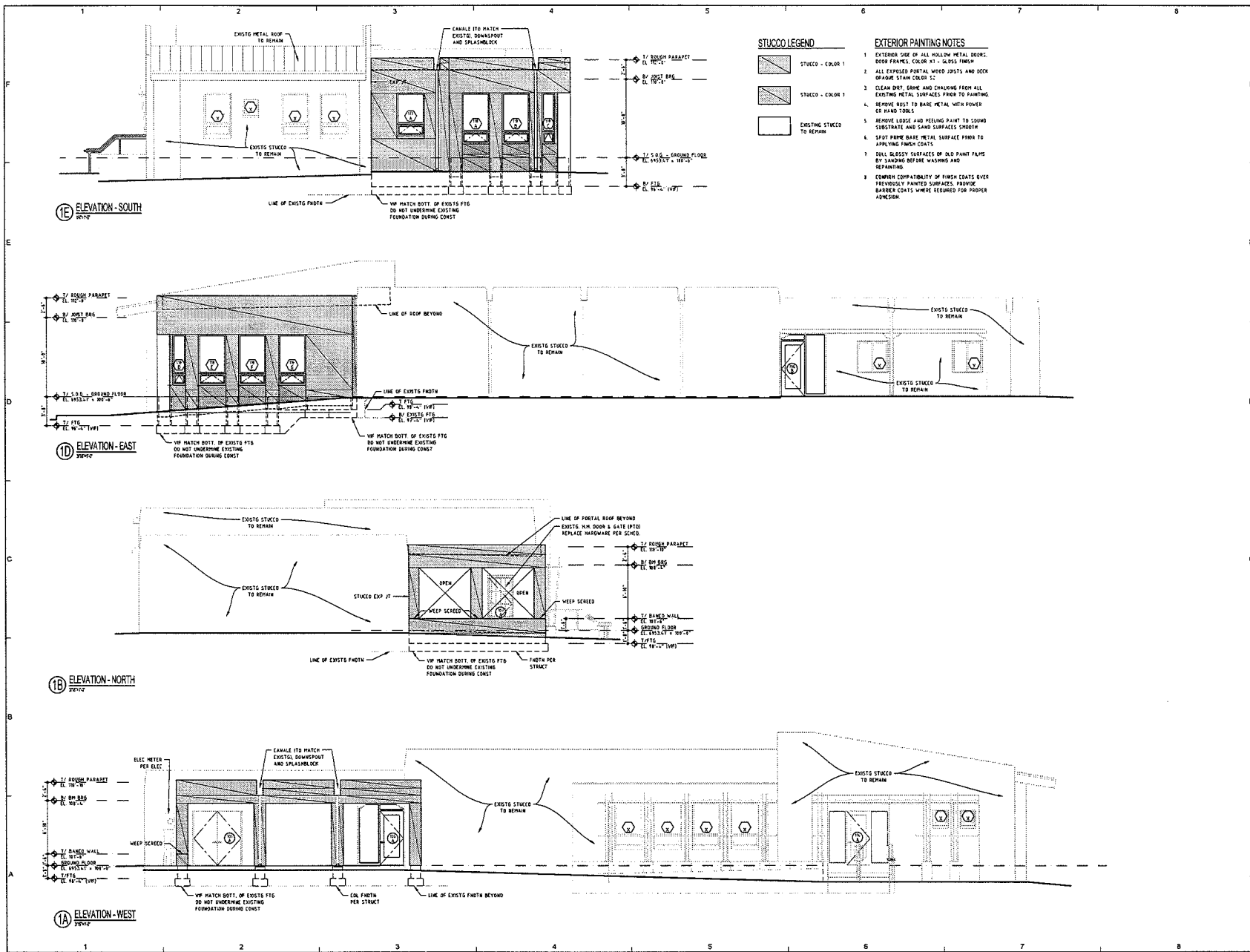
SENIOR CENTER IMPROVEMENTS

LUISA SENIOR CENTER VILLA CONSUELO
 1500 LUISA STREET 1000 CAMINO DON PEDRO
 SANTA FE, NM 87505 SANTA FE, NM 87505

**LUISA SENIOR CENTER
 EXISTING ELEVATIONS**

Project Number: 1310
 Date: 15 JULY 2015

L-A2.0




STUCCO LEGEND


- STUCCO - COLOR 1
- STUCCO - COLOR 2
- EXISTING STUCCO TO REMAIN

EXTERIOR PAINTING NOTES

- 1 EXTERIOR USE OF ALL HOLLOW METAL DOORS, DOOR FRAMES, COLOR BY - BLACK FINISH
- 2 ALL EXPOSED PORTAL WOOD JOISTS AND DECK OR PADEK STAIN COLOR S1
- 3 CLEAN DIRT, GUMS AND CHALKING FROM ALL EXISTING METAL SURFACES PRIOR TO PAINTING
- 4 REMOVE ROSS TO BARE METAL WITH POWER OR HAND TOOLS
- 5 REMOVE LEASE AND PEELING PAINT TO SOUND SUBSTRATE AND SAND SURFACES SMOOTH
- 6 SPOT PRIME BARE METAL SURFACE PRIOR TO APPLYING FINISH COATS
- 7 DULL GLOSSY SURFACES OF OLD PAINT FILMS BY SANDING BEFORE WASHING AND REPAINTING
- 8 COMPARE COMPATIBILITY OF FINISH COATS OVER PREVIOUSLY PAINTED SURFACES, PAINTING BARBER COATS WHERE REQUIRED FOR PROPER ADHESION



STATE OF NEW MEXICO
 ARCHITECT
 No. 15155
 REGISTERED ARCHITECT



autotroph
 ARCHITECTURE PLANNING CONSULTANTS DESIGN CONSTRUCTION

No.	Description	Date

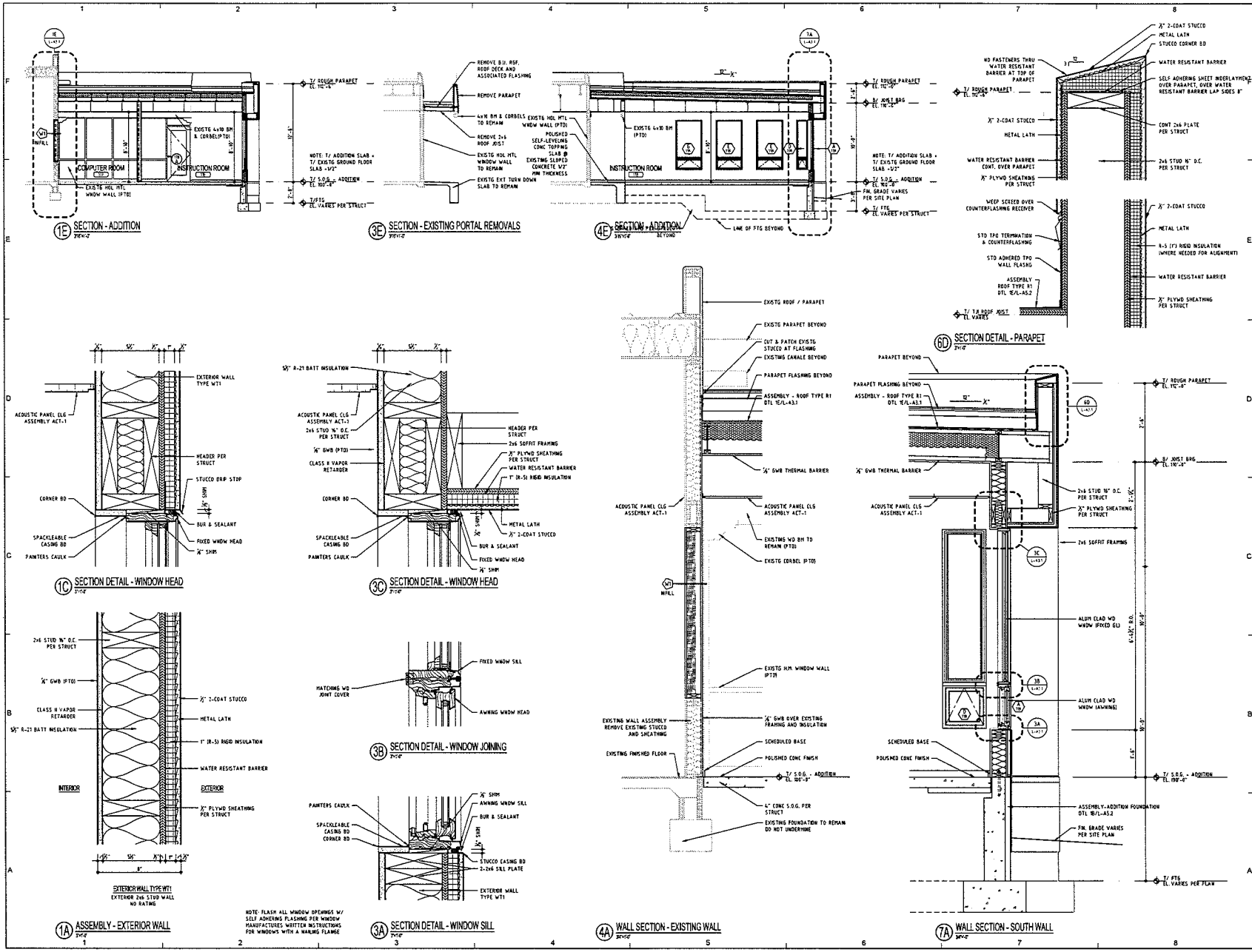
SENIOR CENTER IMPROVEMENTS

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Project number 1310
 Date 15 JULY 2015

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architectural planning architectural design planning

No.	Description	Date

SENIOR CENTER IMPROVEMENTS

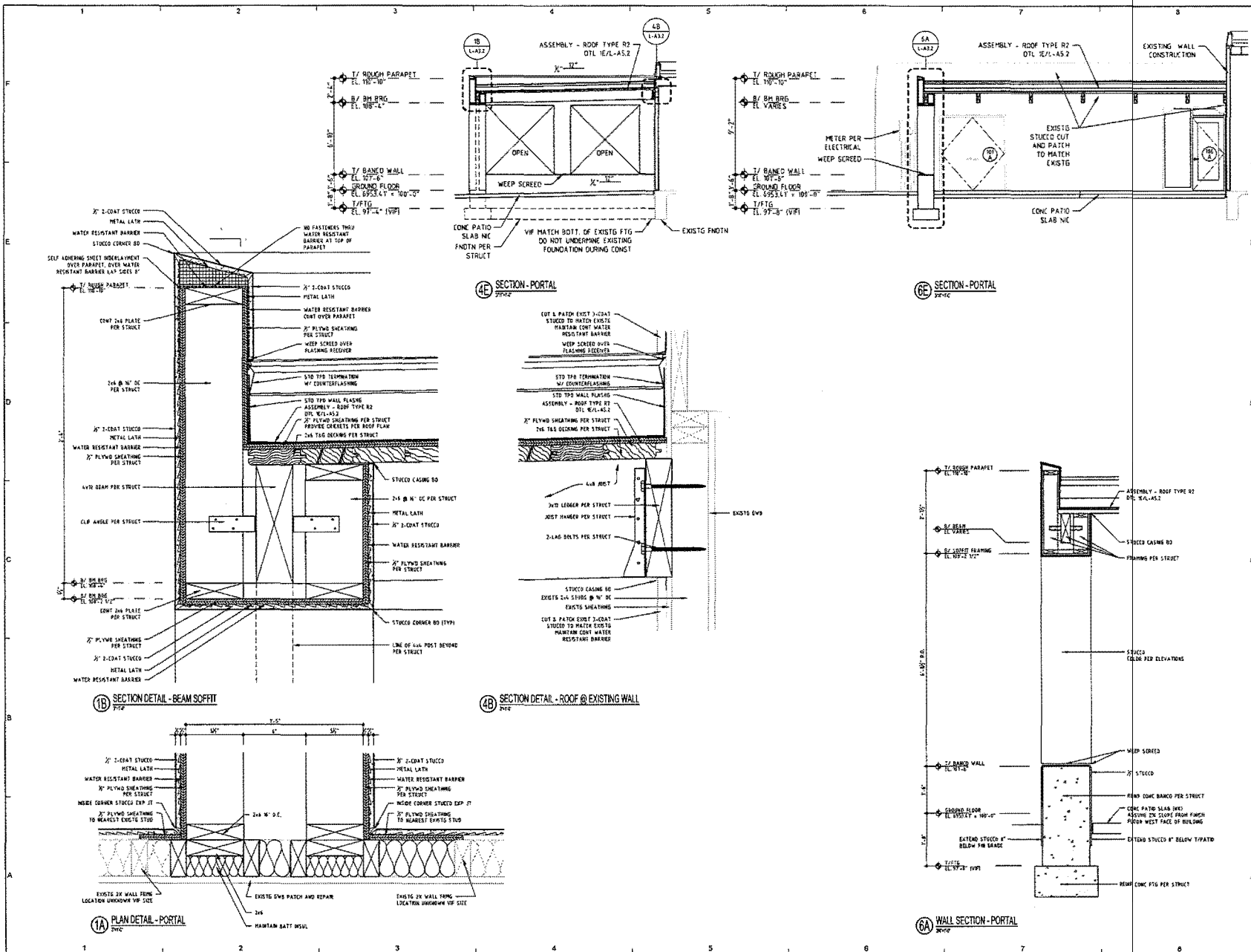
LUISA SENIOR CENTER
10000 SHERWOOD DRIVE
SANTA FE, NM 87505


VILLA CONSUELO CENTER
CROWNING CONGRESS STREET
SANTA FE, NM 87505

LUISA SENIOR CENTER
SECTIONS - ADDITION

Project number	1310
Date	15 JULY 2015

L-A3.1





STATE OF NEW MEXICO
AUTOTROPH
REGISTERED ARCHITECT

Discipline	Date

SENIOR CENTER IMPROVEMENTS

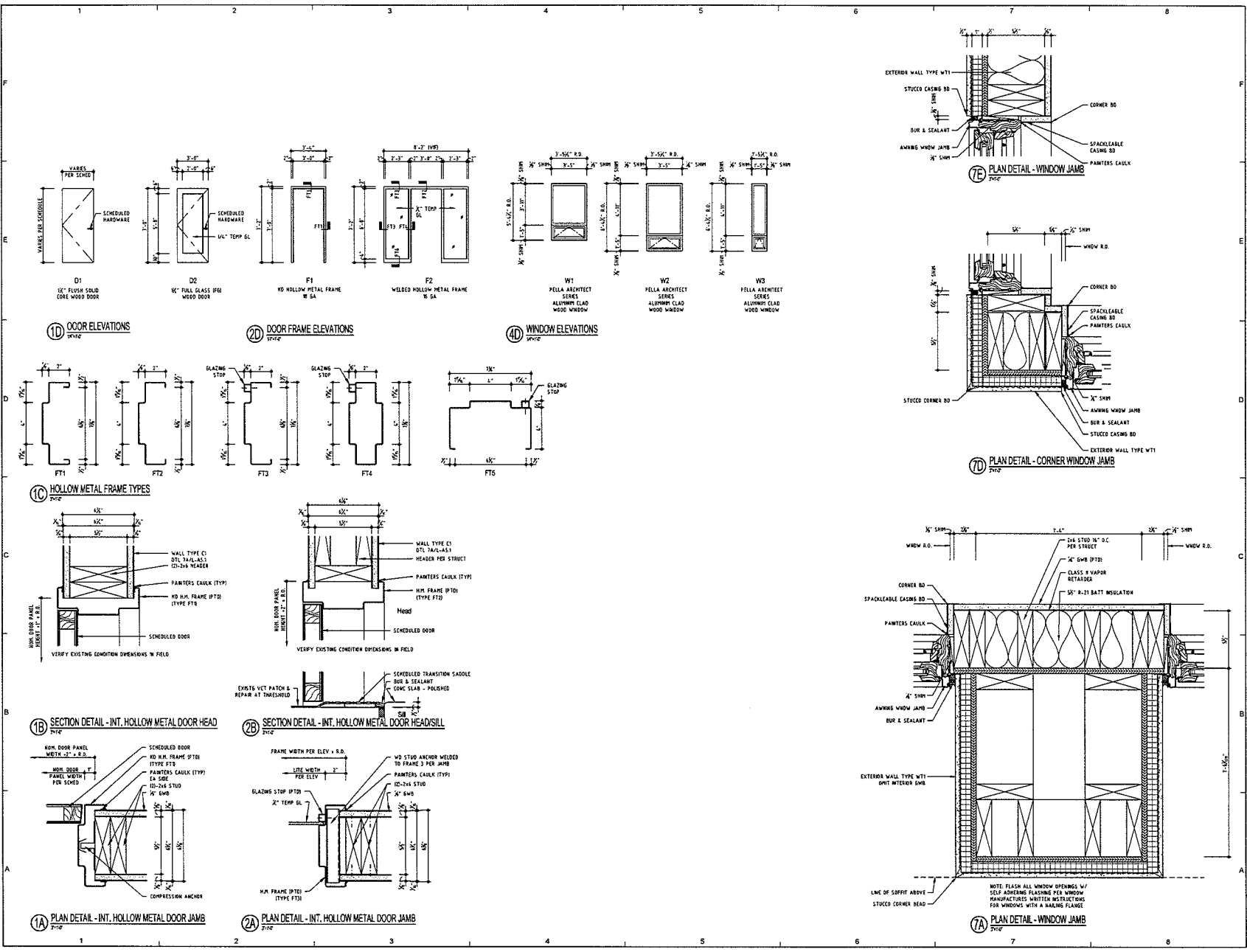
LUISA SENIOR CENTER VILLA CONSUELO SENIOR CENTER
 300 WILSON STREET COLUMBUS BOULEVARD
 SANTA FE, NEW MEXICO SANTA FE, NEW MEXICO

LUISA SENIOR CENTER

SECTIONS - PORTAL

Project Number	1310
Date	15 JULY 2015

L-A3.2



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ARCHITECTURE INTERIORS LANDSCAPE ARCHITECTURE

Description	Date

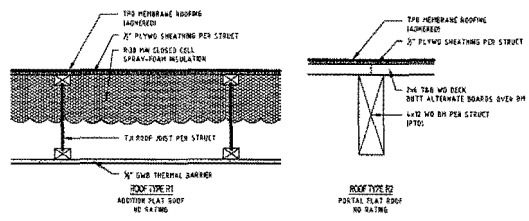
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 100 LUISA STREET 100 LUISA STREET
 SANTA FE, NM 87505 SANTA FE, NM 87505

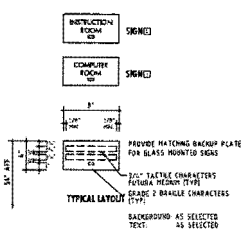
**LUISA SENIOR CENTER
 DOOR DETAILS
 WINDOW DETAILS**

Project number: 1310
 Date: 15 JULY 2015

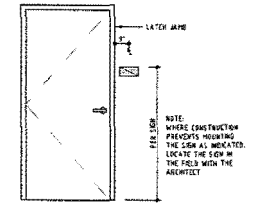
L-A5.1



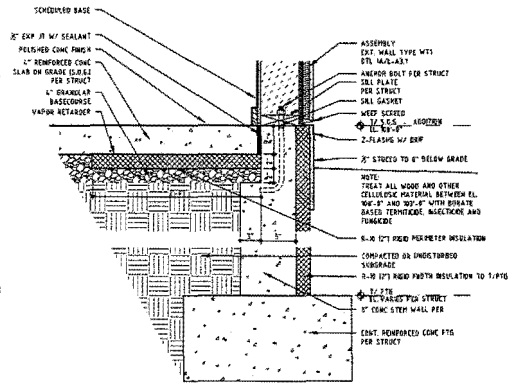
1E ASSEMBLY - FLAT ROOF TYPES



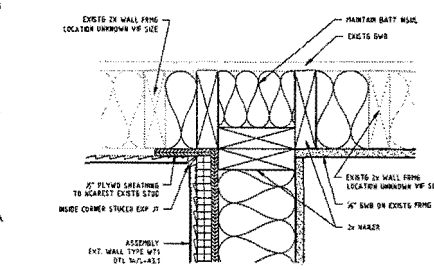
1E ROOM IDENTIFICATION SIGNS



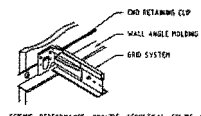
1E SIGN LOCATION DIAGRAM



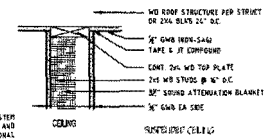
1B ASSEMBLY - ADDITION FOUNDATION



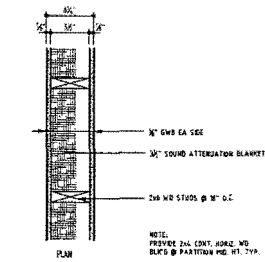
1A PLAN DETAIL - WALL INTERSECTION



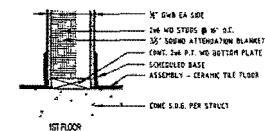
1C AXO - SUSPENDED CEILING GRID



1C CEILING



1C PLAN



1C 1ST FLOOR

1C INTERIOR WALL TYPE #1

1C INTERIOR WALL TYPE



autotroph	
NO	DATE

SENIOR CENTER IMPROVEMENTS

LUISA SENIOR CENTER VILLA CONSIDIO
 1500 S. GARDEN STREET, DENVER, CO 80202
 1500 S. GARDEN STREET, DENVER, CO 80202

LUISA SENIOR CENTER

DETAILS

Project number	1310
Date	15 JULY 2015

L-A5.2

GENERAL STRUCTURAL NOTES

CODES AND MANUALS:

IBC 2003 INTERNATIONAL BUILDING CODE 2003
ASSESSMENT DESIGN LOADS PER BUILDINGS AND OTHER STRUCTURES
ACI 308-R BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
WOOD-NR NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH 2005
SUPPLEMENTS

DESIGN CRITERIA

ROOF LIVE LOAD: 15 + 24-30-42
REDUCTION FACTOR BASED ON TRIM AREA
REDUCTION FACTOR BASED ON ROOF AREA
SNOW LOAD: 30 PSF
FLAT ROOF SNOW LOAD: 24-30-42 PSF
SNOW EXPOSURE FACTOR: CE10
SNOW LOAD IMPORTANCE FACTOR: R-1.0
THERMAL FACTOR: C1.0

HORIZONTAL:

WIND: WIND SPEED: 60 MPH
WIND IMPORTANCE FACTOR: 1.0
BUILDING CATEGORY: II
SEISMIC: SEISMIC IMPORTANCE FACTOR: IS + 1.0
SEISMIC DESIGN CATEGORY: SSC-B
SHORT PERIOD: S1.0 SEISMIC PERIOD: S1.0
SPECTRAL RESPONSE COEFFICIENTS: S1.0 SEISMIC PERIOD: S1.0-0.05
SEISMIC DESIGN CATEGORY: SSC-B
BASE SEISMIC FORCE RESISTING SYSTEM: BEARING WALL SYSTEM - LIGHT FRAMED WALLS WITH PLYWOOD SHEATHING
SEISMIC RESPONSE MODIFICATION FACTOR: 1.0
ANALYSIS PROCEDURE: SPECTRAL

GENERAL:

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
SHOP DRAWINGS SHALL BE FORWARDED AND REVIEWED BEFORE ANY FABRICATION OR
ERECTOR IS STARTED. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS
PRIOR TO SUBMITTAL TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP
DRAWINGS WILL BE REJECTED AND SHALL BE RESUBMITTED.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CLEAR AND ADEQUATE SPACING
FOR ALL PARTS OF THE STRUCTURE DURING CONSTRUCTION.
NOTICING OR CUTTING ANY STRUCTURAL MEMBER IN THE FIELD IS PROHIBITED.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE
STANDARDS SET FORTH BY OSHA.
DO NOT SCALE DRAWINGS.

ABBREVIATIONS

Table with columns A-Z listing abbreviations and their corresponding full names, such as A/E ARCHITECT/ENGINEER, AB ANCHOR BOLT, ABCN ALTERNATE, etc.

CAST-IN-PLACE CONCRETE

ALL CONCRETE SHALL CONFORM TO THE SPECIFICATIONS FOR STRUCTURAL CONCRETE. ACI
308-R BUILDING CODE REQUIREMENTS FOR ADDITIONAL REQUIREMENTS FOR CONCRETE SLABS TO BE
PLACED.
NORMALWEIGHT CONCRETE:
A. FC + 450 PSI @ 28 DAYS - ALL EXPOSED EXTERIOR CONCRETE PLAT WORK AND
RETAINING WALLS I.E. SLABS, GUYPOUT PILES, WALLS, ETC.
C. FC + 3600 PSI @ 28 DAYS - ALL INTERIOR CONCRETE I.E. FOOTINGS, STEEL WALLS,
ETC.
D. FC + 3600 PSI @ 28 DAYS - ALL INTERIOR SLABS ON GRADE.

REINFORCING STEEL:
ALL REINFORCING STEEL SHALL BE FABRICATED AND PLACED IN ACCORDANCE WITH THE
BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND 10-10.4 AND DETAILS
AND DETAILING OF CONCRETE REINFORCEMENT (ACI 308.7R).
ALL REINFORCING STEEL SHALL CONFORM TO ASTM A63 GRADE AND, EXCEPT STABLES,
TES AND INDICATED FELD-BELT BARS, WHICH SHALL CONFORM TO ASTM A495 GRADE 40.
TENSION AND COMPRESSION LAPS WHEN SPACING SHALL BE IN ACCORDANCE WITH ACI 308,
CHAPTER 18. THE SPACING LAP SHALL BE AS FOLLOWS UNLESS WATER DIRECTION
IS IN THE DRAWINGS:
CONTINUOUS CONCRETE FOOTINGS AND STEPPINGS
ALL BARS 30 BAR DIAMETERS (Ø) MINIMUM

SLABS-ON-GRADE
ALL BARS 30 BAR DIAMETERS (Ø) MINIMUM
ALL HORIZONTAL REINFORCING IN FOOTINGS, WALLS AND BEAMS SHALL BE CONTINUOUS
AROUND CORNERS OR HAVE SETTED BENTEN BARS OF THE SAME SIZE AND SPACING AS
THE HORIZONTAL BARS AND LAP 20 BAR DIAMETERS (Ø) MINIMUM.
CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO WEATHER: 3"
B. CONCRETE CAST AGAINST BUT EXPOSED TO DRAIN OR EARTH:
BARS LARGER THAN NO. 5: 2"
BARS NO. 5 OR SMALLER: 1 1/2"
SLAB ON GRADE: 1 1/2" FROM TOP OF SLAB.

FORM TIES SHALL BE EITHER THE THREADED OR SNAP-OFF TYPE SO THAT NO METAL
WILL BE LEFT WITHIN 1 INCH OF THE SURFACE OF THE WALL, FOLLOWING REMOVAL OF
FORM TIES. NEEDED AND SHALL BE RESUBMITTED.
REINFORCING SHALL NOT BE TACK WELDED OR WELDED IN ANY MANNER UNLESS
SPECIALLY DETAILING ON THE STRUCTURAL PLANS.
BAR SUPPORTS AND SPACERS FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE
WITH ACI 308-7R. REINFORCEMENT SHALL BE DIRECTLY TIED TO SUPPORTS.
CHAINS WITH 20 GAUGE SANG PLATES OR SIMILAR BLOCKS SHALL BE PROVIDED FOR ALL
REINFORCEMENT OF CONCRETE IN CONTACT WITH GRADE.
ALL POST INSTALLED REVEALERS, ANCHORS WITH CONCRETE SHALL BE WITH ANCH BOLT
1/2" EXPOSITION ANCHOR STEEL BOLT WEDGE ANCHOR, IT RED HEAD PRODUCTS -
WEDGE ANCHOR, OR APPROVED EQUAL. INSTALLATION SHALL BE WITH MANUFACTURERS
RECOMMENDATIONS.

WOOD FRAMING:

ALL SAW LUMBER 2x4 THROUGH 2x12 UNLESS OTHERWISE SPECIFIED SHALL BE DRY-KIT
WOOD.
ALL SAW LUMBER 2x4 THROUGH 2x12 UNLESS OTHERWISE SPECIFIED SHALL BE DRY-KIT
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CONTINUOUS CONCRETE FOOTINGS AND STEPPINGS
ALL BARS 30 BAR DIAMETERS (Ø) MINIMUM

RECOMMENDATIONS:

AND/OR LENGTHS SHOWN FOR ATTACHMENT TO CONCRETE AND/OR MASONRY ARE
RECOMMENDATIONS ONLY. THE CONTRACTOR SHALL PROVIDE ANCHORS WITH
ADEQUATE LENGTH TO FACILITATE THE REQUIRED CONNECTION.
SUBMIT ALL PROPOSED ANCHORING SYSTEMS INCLUDING A-105 REPORTS TO STRUCTURAL
ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

WOOD FRAMING:
ALL SAW LUMBER 2x4 THROUGH 2x12 UNLESS OTHERWISE SPECIFIED SHALL BE DRY-KIT
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SUBMIT ALL PROPOSED ANCHORING SYSTEMS INCLUDING A-105 REPORTS TO STRUCTURAL
ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

FOUNDATION NOTES

FIELD OBSERVATION AND TESTS:

THE OWNER SHALL EMPLOY THE SERVICES OF A REGISTERED, LICENSED GEOTECHNICAL
ENGINEER TO OBSERVE ALL CONTROLLED EXCAVATIONS. THE GEOTECHNICAL ENGINEER SHALL
PROVIDE CONTINUOUS ON-SITE OBSERVATION BY EXPERIENCED PERSONNEL DURING
CONSTRUCTION OF CONTROLLED EXCAVATIONS. THE CONTRACTOR SHALL NOTIFY THE
GEOTECHNICAL ENGINEER AT LEAST FIVE WORKING DAYS IN ADVANCE OF ANY FIELD
OPERATIONS OF THE CONTROLLED EXCAVATION.

TESTS OF MATERIALS SHALL BE MADE AT THE FOLLOWING RATES:
ONE FIELD DENSITY TEST PER EACH 500 SQUARE YARDS OF COMPACTED SUBGRADE
PRIOR TO PLACING STRUCTURAL FILL OR FLOOR SLAB CONSTRUCTION WITH A MINIMUM
OF 1 TESTS.
ONE FIELD DENSITY TEST PER EACH 300 CUBE YARDS OF STRUCTURAL FILL PLACED
OR EACH HORIZONTAL LAYER OF STRUCTURAL FILL, WHICHEVER IS GREATER.
ONE MOISTURE-DENSITY CURVE FOR EACH TYPE OF MATERIAL USED, AS INDICATED
BY SEVE ANALYSES AND PLASTICITY INDEX.

CLEARING AND GRUBBING:
REMOVE ALL BRUSH, RUBBER, BRASS, AND GRASS ROOTS FROM THE CONSTRUCTION
AREA.
REMOVE STUMPS, HATTED BRUSH AND ROOTS LARGER THAN 3 INCHES IN DIAMETER
WITHIN 6 INCHES OF THE SURFACE OF AREAS ON WHICH FILL AND/OR FOOTINGS ARE TO
BE CONSTRUCTED.
REMOVE ALL TOPSOIL FROM THE CONSTRUCTION AREA. THIS MATERIAL SHALL NOT BE
USED AS FILL MATERIAL, BUT MAY BE STOCKPAILED AND LATER USED IN THE TOP 3
INCHES OF FILL OUTSIDE THE BUILDING PAD.

SITE, SUBFLOOR AND BEARING SURFACE PREPARATION:
A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE PRESENT TO CONFORM
CONTROL EXCAVATION OF ANY UNCONTROLLED FILL.
OVEREXCAVATE ALL SLODS INCLUDING FOOTINGS AND FLOOR SLAB AND ALL
UNCONTROLLED FILL TO A MINIMUM DEPTH OF 3 FEET.
GRADE ALL EXPOSED SUBGRADE SOLES TO A DEPTH OF 10 INCHES, MONTHS TO OPTIMUM
MOISTURE CONTENT 6+- .2% AND COMPACT TO THE SPECIFIED HEREINAFTER.
PLACE ALL STRUCTURAL FILL IN APPROXIMATELY 12 INCHES LAYER NOT GREATER
THAN 8 INCHES IN THICKNESS, MOISTEN TO OPTIMUM MOISTURE CONTENT 1+- .2% AND
COMPACT TO DENSITY SPECIFIED HEREINAFTER.
ALL EARTHWORK FOR THE BUILDING PAD SHALL EXTEND A MINIMUM OF 3 FEET BEYOND
THE PERIMETER OF EACH FOOTING.

STRUCTURAL FILL REQUIREMENTS:

GRADATION (ASTM D2922):
SEVE SIZE PERCENT PASSING BY WEIGHT
No. 10 100
No. 20 95
No. 40 85
No. 60 70
No. 100 55
No. 200 40
No. 425 30
No. 850 20
No. 1750 10
No. 3500 5
No. 7000 3
No. 14000 1

COMPACTION REQUIREMENTS:

SUBGRADE SOLES AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE
FOLLOWING PERCENTAGES OF THE ASTM D698 HANDBOOK DRY DENSITY AT +- .2%
OPTIMUM MOISTURE CONTENT.

STRUCTURAL FILL IN THE BUILDING AREA
SUBGRADE FOR SLAB SUPPORT: 95
SUBGRADE BELOW STRUCTURAL FILL: 90
MISCELLANEOUS BACKFILL: 90

GRANULAR BASE COURSE REQUIREMENTS:
GRADATION (ASTM D698):
SEVE SIZE PERCENT PASSING BY WEIGHT
No. 10 100
No. 20 95
No. 40 85
No. 60 70
No. 100 55
No. 200 40
No. 425 30
No. 850 20
No. 1750 10
No. 3500 5
No. 7000 3
No. 14000 1

WATER VAPOR RETARDER SHALL BE APPLIED TO EXCEEDS CLASS A
MAXIMUM PERMEANCE ASTM E91, 0.01 PERM OR AS REQUIRED TO MEET FLOORING
MANUFACTURERS WARRANTIES.
TENSILE STRENGTH ASTM E91, SECTION 9 NOT LESS THAN 45 LBS. FORCE/INCH
PUNCTURE RESISTANCE ASTM D3959, METHOD B,
THICKNESS OF RETARDER (PLASTIC) ASTM D3959, 96 NOT LESS THAN 3 MILS
MATERIAL: WELBOR POLYETHYLENE OR POLYPROPYLENE
SEAM TAPE: WATER VAPOR TRANSMISSION RATE ASTM E 1663 PERMS OR LOWER
INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND
ASTM E 1783.

UNLESS VAPOR RETARDER WITH THE LARGEST DIMENSION PARALLEL WITH THE
DIRECTION OF THE PILE.
LAP VAPOR RETARDER OVER FOOTINGS AND SEAL TO FOUNDATION WALLS.
OVERLAP Joints 6 INCHES AND SEAL WITH MANUFACTURERS TAPE.
SEAL ALL PENETRATIONS (INCLUDING PRESS) FOR MANUFACTURERS
INSTRUCTIONS. NO PENETRATIONS OF THE VAPOR RETARDER IS ALLOWED EXCEPT FOR
REINFORCING STEEL AND PERMANENT UTILITIES.
REPAIR DAMAGED AREAS BY CUTTING PATCHES OF VAPOR RETARDER.
OVERLAP DAMAGED AREAS 6 INCHES AND TAPING ALL FOUR SIDES WITH

Table with columns 'Structure', 'Minimum', and 'Maximum' for various soil types and compaction requirements.

Table with columns 'SEVE SIZE' and 'PERCENT PASSING BY WEIGHT' for gradation requirements.

UNLESS VAPOR RETARDER WITH THE LARGEST DIMENSION PARALLEL WITH THE
DIRECTION OF THE PILE.
LAP VAPOR RETARDER OVER FOOTINGS AND SEAL TO FOUNDATION WALLS.

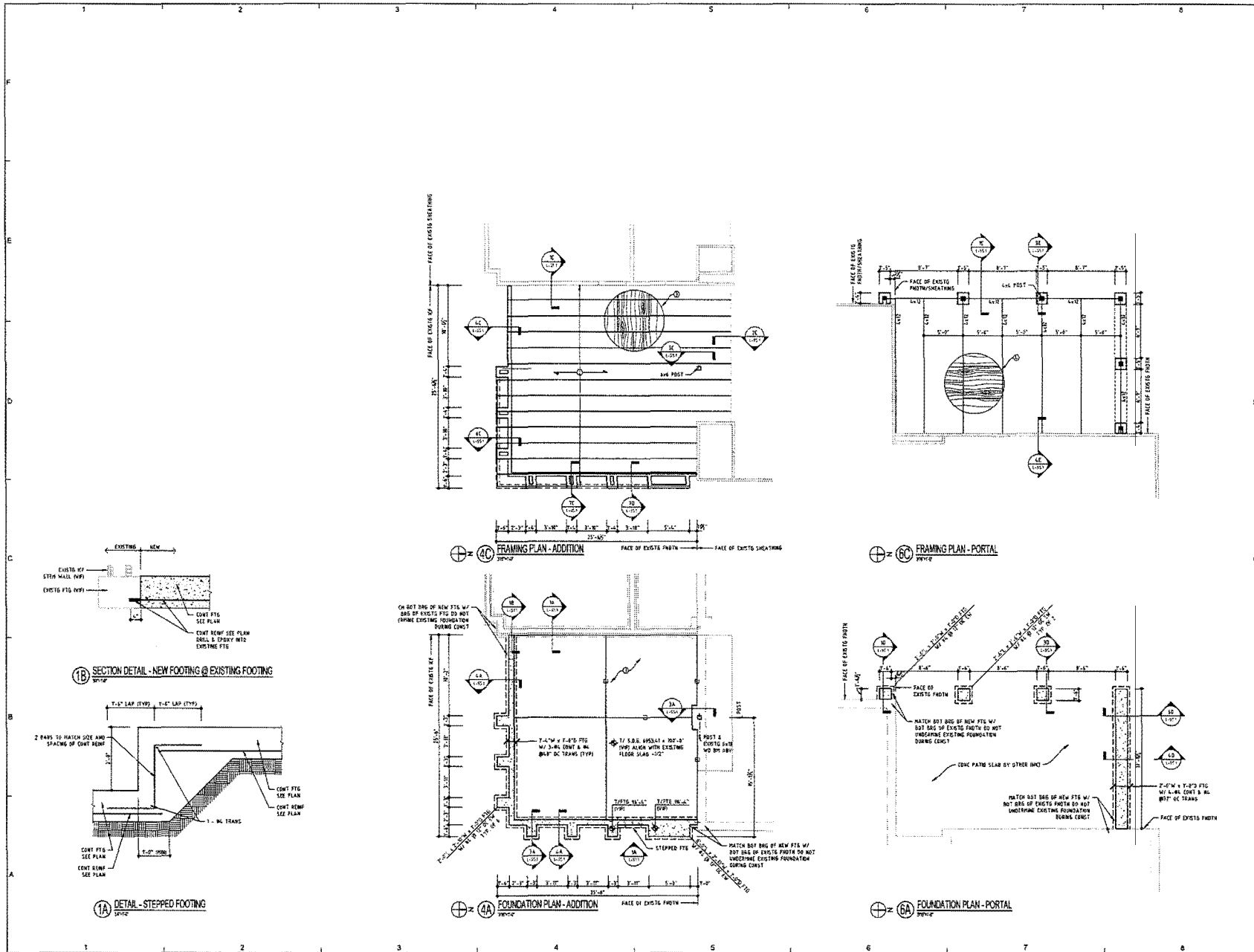
UNLESS VAPOR RETARDER WITH THE LARGEST DIMENSION PARALLEL WITH THE
DIRECTION OF THE PILE.
LAP VAPOR RETARDER OVER FOOTINGS AND SEAL TO FOUNDATION WALLS.

Table with columns 'Structure', 'Minimum', and 'Maximum' for various soil types and compaction requirements.

Chavez-Gilvoss logo and contact information: 4444 Camino del Rio East, Suite 200, San Diego, CA 92108, Tel: 619-591-0100.

autotroph logo and contact information: 6825 La Jolla Village Drive, San Diego, CA 92121, Tel: 619-449-5000.

SENIOR CENTER IMPROVEMENTS
GENERAL STRUCTURAL NOTES
L-S0.1
Project number: 1310
Date: 15 JULY 2015



GENERAL NOTES

1. DIMENSIONS ARE TO FACE OF CONCRETE OR STUD UNLESS NOTED OTHERWISE.

2. EXISTING CONSTRUCTION IS PER AVAILABLE EXISTING DRAWINGS. ALL EXISTING CONSTRUCTION AND DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. SHOULD CONDITIONS VARY FROM THOSE SHOWN, CONTACT ENGINEER BEFORE PROCEEDING.

3. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

4. ALL EXTERIOR WALLS SHALL BE SHEATHED WITH 3/4" APA RATED PLYWOOD SHEATHING. ATTACH SHEATHING TO SUPPORTS W/ 6 COMMON NAILS @ 12" O.C.

5. 1/2" INDICATED SLAB CONTROL JOINT. SEE 311.64/L/LS/1.

6. SEE ARCHITECTURAL DRAWINGS FOR ALL BEARING AND FACILITY ELECTRICAL.

7. UNLESS NOTED OTHERWISE USE MAKING SCHEDULE ON SHEET L-S11 FOR ALL BARMS ATTACHMENTS.

- KEYED NOTES**
- 1" CONCRETE SLAB REINFORCED WITH #4 @ 24" O.C. EACH WAY OVER 16" VARIOUS BARRIER OVER 4" GRANULAR BASE COURSE OVER IMPACTED TYPICAL DECK.
 - 1/2" APA RATED PLYWOOD SHEATHING. ATTACH SHEATHING TO SUPPORTS WITH 6 NAILS @ 12" O.C. ALONG PANEL EDGES AND WITH 6 NAILS @ 12" O.C. IN REMAINING FIELD OF PANEL.
 - 3/4" APA RATED PLYWOOD SHEATHING OVER 2-4 TIES DECK.



No.	Describe	Date

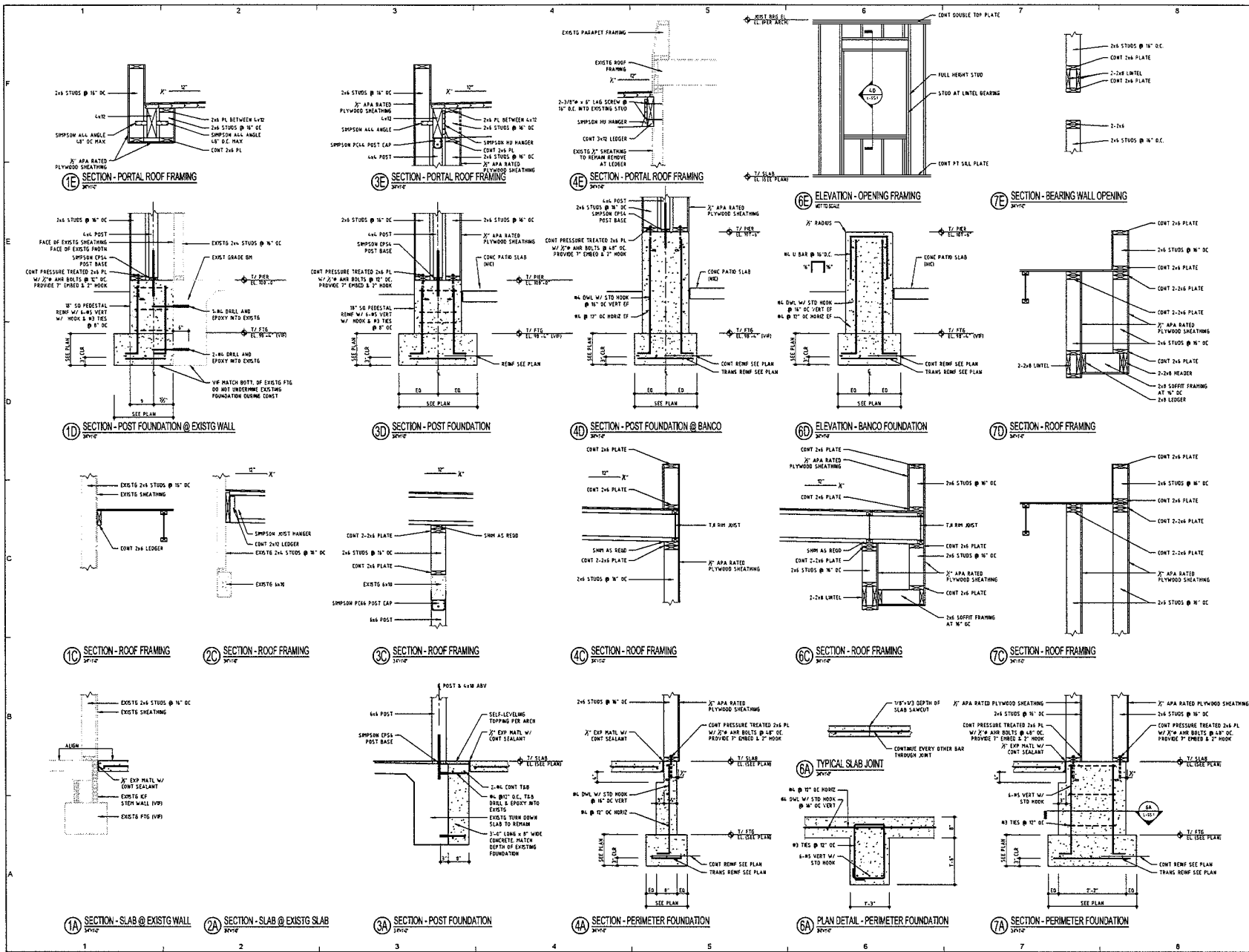
SENIOR CENTER IMPROVEMENTS

LUISA SENIOR CENTER
 1000 N. 10th St., Suite 100
 PHOENIX, AZ 85004

VILLA DONALDO
 1000 N. 10th St., Suite 100
 PHOENIX, AZ 85004

Project Number: 1910
 Date: 15 JULY 2015

L-S1.1



Chavez-Grioux
ARCHITECTS & ENGINEERS

autotroph
Architectural and Structural Engineering

No.	Description	Date

SENIOR CENTER IMPROVEMENTS

LUISA SENIOR CENTER VILLA COMPLEJO
 5601 VINTAGE AVENUE SHAWNEE
 SHAWNEE, OKLAHOMA 74105-1900
 OKLAHOMA OKLAHOMA

LUISA SENIOR CENTER
STRUCTURAL DETAILS

Project number 13110
 Date 15 JULY 2015

L-S5.1

HVAC		MECHANICAL VALVES		TEXT SYMBOLS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	RETURN DUCTWORK UP		GATE VALVE		MECHANICAL KEYED NOTES
	SUPPLY DUCTWORK UP		CHECK VALVE		PIPE LEADER LINE FOR SIZES
	EXHAUST DUCTWORK UP		BALL VALVE		POINT OF CONNECTION
	ROUND DUCTWORK UP		PRESSURE REDUCING VALVE		POINT OF DISCONNECTION
	RETURN DUCTWORK DOWN		OUTSIDE STEM AND YOKE		EQUIPMENT DESIGNATION
	SUPPLY DUCTWORK DOWN		GLOBE VALVE		AIR DEVICE DESIGNATION
	EXHAUST DUCTWORK DOWN		THREE WAY VALVE		REVISION DELTA
	ROUND DUCTWORK DOWN		AUTOMATIC TEMPERATURE CONTROL VALVE		SHEET NUMBER
	TRANSITION RECTANGULAR TO RECTANGULAR OR TRANSITION ROUND TO ROUND		BUTTERFLY VALVE		DETAIL DESIGNATION
	TRANSITION RECTANGULAR TO ROUND		TWO WAY CONTROL VALVE		BASEBOARD DESIGNATION
	DUCTWORK ROUTED BELOW OTHER DUCTWORK		THREE WAY CONTROL VALVE		RECTANGULAR DUCTWORK SIZING
	CAPPED DUCTWORK		DRAIN VALVE		ROUND DUCTWORK SIZING
	EXISTING DUCTWORK		RELIEF VALVE		ARROW INDICATES DIRECTION OF FLOW
	DUCTWORK TO BE REMOVED		AIR RELIEF VALVE		RISE IN DIRECTION OF FLOW
	DUCT WITH INTERNAL LINING		STRAINER		DROP IN DIRECTION OF FLOW
	FIRE SMOKE DAMPER		STEAM VALVE		RETURN AIR FLOW
	MOTORIZED BALANCING DAMPER		CIRCUIT SETTER OR BALANCING VALVE		SUPPLY AIR FLOW
	MANUAL BALANCING DAMPER		BALANCING, GAS COCK OR GAUGE COCK		EXHAUST AND RETURN AIR FLOW
	BACKDRAFT DAMPER		STEAM TRAP		THERMOSTAT
	CONICAL TAP		VALVE IN RISER		SPACE HUMIDISTAT
	RECTANGULAR TAP				SPACE HUMIDITY SENSOR
	FLEXIBLE DUCT				SPACE PRESSURE SENSOR
	SQUARE SUPPLY AIR DIFFUSER				CARBON DIOXIDE SENSOR
	ROUND SUPPLY AIR DIFFUSER				CARBON MONOXIDE SENSOR
	RETURN AIR GRILLE				
	CEILING SLOT SUPPLY AIR DIFFUSER				
	SIDEWALL RETURN/SUPPLY AIR REGISTER				
	FLOOR RETURN/SUPPLY AIR REGISTER				
	ACCESS PANEL				
	HUMIDIFIER				

PIPING	
SYMBOL	DESCRIPTION
	EXISTING PIPING
	PIPING TO BE REMOVED
	HMS - HOT WATER SUPPLY PIPING
	HMR - HOT WATER RETURN PIPING
	CWS - COLD WATER SUPPLY PIPING
	CWR - COLD WATER RETURN PIPING
	CHWS - CHILLED WATER SUPPLY PIPING
	CHWR - CHILLED WATER RETURN PIPING
	CTS - COOLING TOWER SUPPLY PIPING
	CTR - COOLING TOWER RETURN PIPING
	SS - STEAM SUPPLY PIPING
	SR - STEAM CONDENSATE RETURN PIPING
	C - CONDENSATE PIPING
	DR - EQUIPMENT DRAIN PIPING
	RW - REVERSE OSMOSIS WATER PIPING
	V - VENT PIPING

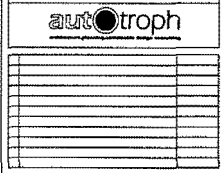
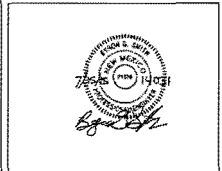
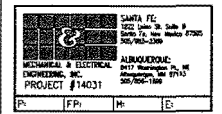
FITTINGS	
SYMBOL	DESCRIPTION
	UNION
	TEE
	ELBOW
	ELBOW UP
	ELBOW DOWN
	TEE UP
	TEE DOWN
	BREAK
	CAP
	PRESSURE GAUGE
	THERMOMETER
	FLOW SWITCH
	PRESSURE SWITCH

TEXT SYMBOLS	
SYMBOL	DESCRIPTION
	MECHANICAL KEYED NOTES
	PIPE LEADER LINE FOR SIZES
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	EQUIPMENT DESIGNATION
	AIR DEVICE DESIGNATION
	REVISION DELTA
	SHEET NUMBER
	DETAIL DESIGNATION
	BASEBOARD DESIGNATION
	RECTANGULAR DUCTWORK SIZING
	ROUND DUCTWORK SIZING
	ARROW INDICATES DIRECTION OF FLOW
	RISE IN DIRECTION OF FLOW
	DROP IN DIRECTION OF FLOW
	RETURN AIR FLOW
	SUPPLY AIR FLOW
	EXHAUST AND RETURN AIR FLOW
	THERMOSTAT
	SPACE HUMIDISTAT
	SPACE HUMIDITY SENSOR
	SPACE PRESSURE SENSOR
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE SENSOR
	DUCT MOUNTED SMOKE DETECTOR

- GENERAL NOTES:**
- MECHANICAL CONTRACTOR SHALL:
- PROVIDE AND INSTALL ALL MATERIAL AND EQUIPMENT AS REQUIRED BY UFC, UMC, NFPA, LIFE SAFETY CODE, GAS CODE, AND ALL OTHER LOCAL CODES AND ORDINANCES THAT APPLY WHETHER SHOWN ON THE DRAWINGS OR NOT. WHERE THERE IS A DISCREPANCY BETWEEN THE CODES OR ORDINANCES AND THE DRAWINGS, THE MORE STRINGENT APPLICATION SHALL APPLY.
 - LAYOUT AND INSTALL COMPLETE AND FUNCTIONAL MECHANICAL SYSTEMS, INCLUDING TEMPORARY CUTOFF OF EXISTING UTILITIES, AND ALL CUTTING, PATCHING, AND REPAIR ASSOCIATED WITH INSTALLING THE SYSTEMS.
 - VIBRATIONALLY ISOLATE FROM THE BUILDING STRUCTURE ALL EQUIPMENT AND PIPING IN THE MECHANICAL ROOM, INCLUDING GAS, AIR INTAKE, EXHAUST, ETC. COORDINATE TO ASSURE THAT AS QUIET AN OPERATING SYSTEM AS POSSIBLE IS INSTALLED.
 - INSTALL FREE AREA OF THE DUCT WORK AS SHOWN ON THE DRAWINGS.
 - PROVIDE ALL DUCT WORK CONNECTIONS AND TRANSITIONS AT GRILLES, DIFFUSERS, REDISTERS, FILTERS, COILS, AND OTHER LOCATIONS WHERE REQUIRED. CONSTRUCT ALL TRANSITIONS AND CONNECTIONS ACCORDING TO SMACNA STANDARDS.
 - PROVIDE A TESTING AND BALANCING (T&B) AGENCY. THE T&B AGENCY SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING SHEAVES, BALANCING DAMPERS, AND ALL EQUIPMENT NECESSARY TO PROVIDE PLUS OR MINUS 10% OF THE GPM AND/OR 10% OF CFM REQUIRED AT EACH TERMINAL UNIT. NO CHANGE ORDERS WILL BE ALLOWED AS A RESULT OF THE CONTRACTOR'S FAILURE TO PROVIDE EQUIPMENT NECESSARY FOR TEST AND BALANCE WHETHER SHOWN ON THE DRAWINGS OR NOT.
 - COORDINATE WORK WITH THE GENERAL CONTRACTOR TO HAVE THE ROOFTOP EQUIPMENT, DUCT WORK, AND INSULATION JACKETS PAINTED TO THE ARCHITECT'S REQUIREMENTS.
 - INSTALL ALL BOILER ROOM PIPING TO BE PLUMB AND LEVEL. INSULATE PIPING IN DRAIN SPACES, TUNNELS, AND IN MECHANICAL ROOM PER SPECIFICATIONS AND/OR MODEL ENERGY CODE.
 - PROVIDE AND INSTALL ALL MECHANICAL EQUIPMENT, TRANSFORMERS, RELAYS, AND OTHER ELEMENTS NECESSARY FOR A COMPLETE OPERATING SYSTEM. COMPLETE ALL 24 VOLT CONTROL WIRING AND EQUIPMENT TO THE ABOVE. ALL LINE VOLTAGE WIRING TO THE ABOVE SHALL BE COMPLETED BY THE ELECTRICAL CONTRACTOR.
 - ALTER DIMENSIONS OF THE DUCT WORK IN THE CEILING SPACE FROM SIZES INDICATED ON THE DRAWINGS ONLY AT SPECIFIC LOCATIONS WHEN NECESSARY TO FIT THE DUCT WORK IN THE SPACE AVAILABLE. REROUTE DUCT WORK IN CEILING SPACE TO AVOID OTHER MECHANICAL EQUIPMENT, LIGHT FIXTURES, ETC. MAINTAIN THE SAME FREE AREA AND SUBMIT PROPOSED CHANGES TO THE ENGINEER FOR APPROVAL. BE RESPONSIBLE FOR VERIFYING SPACE LIMITATIONS BEFORE DUCT WORK FABRICATION AND SHALL MAKE CHANGES ACCORDINGLY. PROVIDE ALL NECESSARY TRANSITIONS.
 - VERIFY EQUIPMENT SPECIFIED IS CORRECT FOR FIELD APPLICATION INCLUDING BUT NOT LIMITED TO SIZES, LOCATIONS, CLEARANCES, STRUCTURAL CONSISTENCY, ETC. BEFORE ORDERING OR INSTALLING AND SHALL MAKE CHANGES, DELETIONS, OR ADDITIONS TO ANY AND ALL APPLICATIONS THAT APPLY BEFORE ORDERING EQUIPMENT. SUBMIT CHANGES, ADDITIONS AND/OR MODIFICATIONS REQUIRED TO ENGINEER FOR APPROVAL. NO CHANGE ORDERS OR PASSAGE OF LIABILITY BY THE CONTRACTOR(S) WILL BE ALLOWED AS A RESULT OF THE CONTRACTOR(S) FAILURE TO VERIFY EQUIPMENT.
 - COORDINATE ALL PROPOSED ROOF PENETRATIONS WITH GENERAL CONTRACTOR AND ARCHITECT AND RELOCATE IF NECESSARY. COORDINATE WITH GENERAL CONTRACTOR/ARCHITECT/OWNER.
 - PROVIDE ONE UNION AT ALL VALVES.
 - INSTALL CONDENSATE AND OVERFLOW PIPING FROM ALL MECHANICAL EQUIPMENT. DRAIN POINTS, EXTEND AND TERMINATE PER UMC/UFC. ALL INTERIOR CONDENSATE AND OVERFLOW PIPING SHALL BE INSULATED PER SPECIFICATIONS FOR APPROPRIATE TEMPERATURE RANGE.
 - ALL BUILDING AND MECHANICAL OPENINGS SHALL BE MADE WEATHER TIGHT AT END OF WORK DAY.

GENERAL DEMOLITION NOTES:

- BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR SUBMITTING A COMPLETE BID WITHIN THE SCOPE OF THE PLANS AND SPECIFICATIONS. WHEN UNCLEAR, VERIFY THE EXTENT OF REMOVALS PRIOR TO BID. PRIOR TO THE CONCLUSION OF THE BIDDING PERIOD IN THE BIDDING TIME FRAME, BRING TO THE ATTENTION OF THE ENGINEER ANY QUESTIONS IN REGARD TO THE EXTENT OF WORK OR ANY OTHER ISSUE RELATING TO THIS PROJECT. WITHOUT ANY CLARIFICATION BEYOND THESE AND THE BID DOCUMENTS, THE SUBMITTAL OF A BID WARRANTS THAT THE BIDDER FULLY UNDERSTANDS THE SCOPE.
- REMOVE ALL EXISTING MATERIAL AND EQUIPMENT INDICATED AND SALVAGE TO THE OWNER. THE OWNER SHALL HAVE FIRST RIGHTS TO ALL EQUIPMENT TO BE REMOVED. DISPOSE OF ALL EQUIPMENT AND MATERIAL THAT IS NOT WANTED BY OWNER IN AN APPROVED MANNER PER THE LOCAL DICTATING AUTHORITY.
- WHEN THE EXTENT OF REMOVAL IS UNCLEAR, REQUEST CLARIFICATION FROM ENGINEER PRIOR TO COMMENCING WORK.
- WHEN MECHANICAL SYSTEMS ARE BEING REMODELED, COVER AND SEAL OPENINGS IN DUCTWORK, PIPING, OR MECHANICAL EQUIPMENT TO REMAIN IN OPERATION THROUGH REMAINDER OF PROJECT.
- WHEN NOTES CALL FOR "DISCONNECT AND REMOVE" MECHANICAL EQUIPMENT, COORDINATE WITH ELECTRICAL SUBCONTRACTOR TO REMOVE ALL ASSOCIATED WIRE AND EXPOSED CONDUIT TO SOURCE. COORDINATE WITH ELECTRICAL SUBCONTRACTOR FOR THE RE-USE OF EXISTING CONDUITS AND/OR CONDUCTORS WHERE FEASIBLE PROVIDED THAT THEY ARE IN GOOD CONDITION AND COMPLY WITH CURRENT CODES AND STANDARDS.
- REPAIR ALL DAMAGE TO WALLS, CEILING, ETC. IN A WORKMANLIKE MANNER. SEAL ALL WALL AND CEILING OPENINGS WITH MATCHING MATERIAL.
- THE LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS IS BASED ON SITE OBSERVATIONS AND THE BEST AVAILABLE INFORMATION AT THE TIME OF DRAWING PREPARATION AND SOME DISCREPANCIES MAY EXIST. VERIFY THE EXACT LOCATIONS OF EQUIPMENT TO BE REMOVED IN THE FIELD AND REQUEST CLARIFICATION FROM ENGINEER WHEN EQUIPMENT LOCATION OR EXISTENCE DIFFERS FROM PLANS.

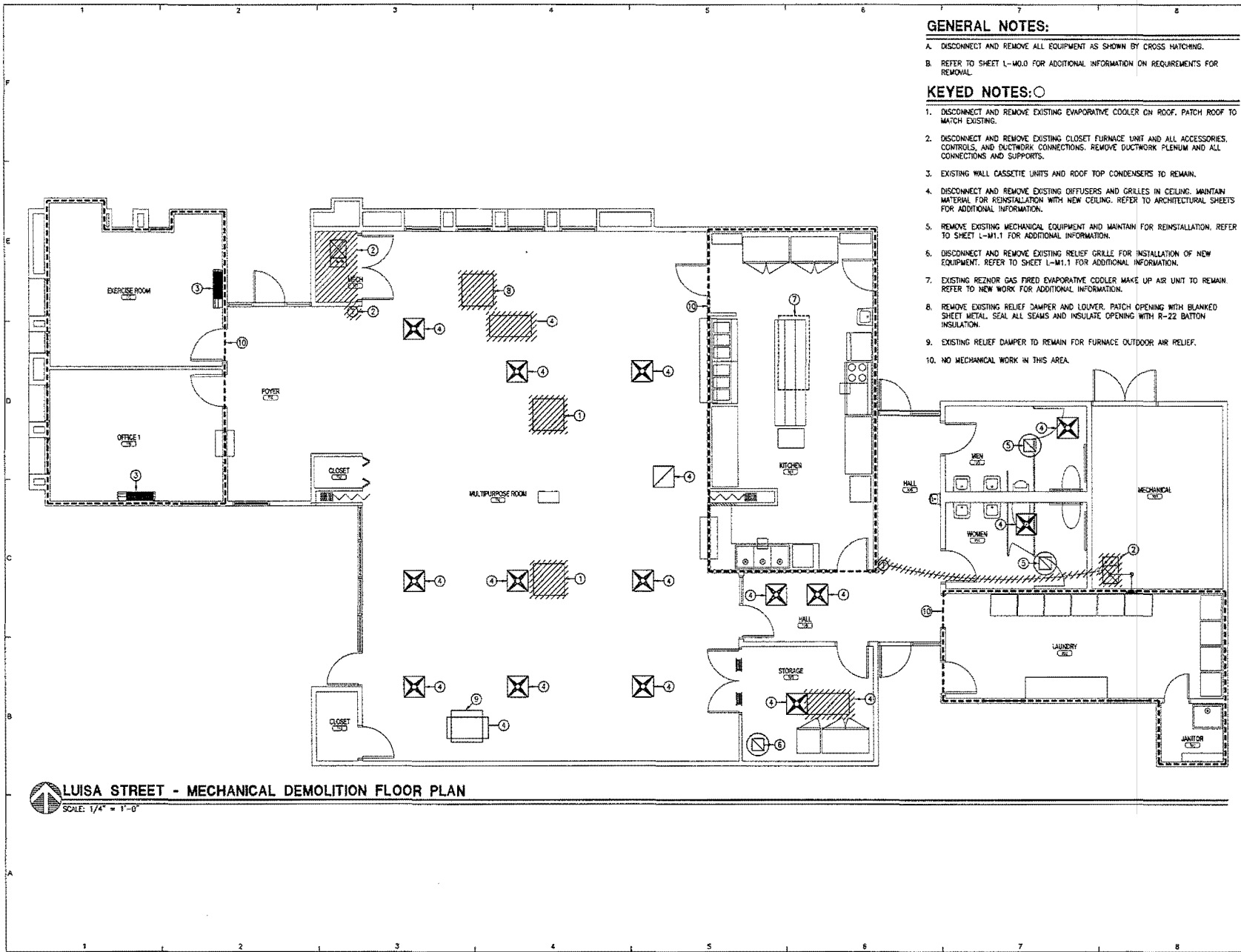


LUSA SENIOR CENTER

MECHANICAL LEGEND AND GENERAL NOTES

Project number: 1210
 Date: 15 JULY 2015
 Drawn by: RD
 Checked by: KMT, BOS

L-MO.0



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

GENERAL NOTES:

- A. DISCONNECT AND REMOVE ALL EQUIPMENT AS SHOWN BY CROSS HATCHING.
 - B. REFER TO SHEET L-M0.0 FOR ADDITIONAL INFORMATION ON REQUIREMENTS FOR REMOVAL.
- KEYED NOTES: ○**
- 1. DISCONNECT AND REMOVE EXISTING EVAPORATIVE COOLER ON ROOF. PATCH ROOF TO MATCH EXISTING.
 - 2. DISCONNECT AND REMOVE EXISTING CLOSET FURNACE UNIT AND ALL ACCESSORIES, CONTROLS, AND DUCTWORK CONNECTIONS. REMOVE DUCTWORK PLENUM AND ALL CONNECTIONS AND SUPPORTS.
 - 3. EXISTING WALL CASSETTE UNITS AND ROOF TOP CONDENSERS TO REMAIN.
 - 4. DISCONNECT AND REMOVE EXISTING DIFFUSERS AND GRILLES IN CEILING. MAINTAIN MATERIAL FOR REINSTALLATION WITH NEW CEILING. REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION.
 - 5. REMOVE EXISTING MECHANICAL EQUIPMENT AND MAINTAIN FOR REINSTALLATION, REFER TO SHEET L-M1.1 FOR ADDITIONAL INFORMATION.
 - 6. DISCONNECT AND REMOVE EXISTING RELIEF GRILLE FOR INSTALLATION OF NEW EQUIPMENT. REFER TO SHEET L-M1.1 FOR ADDITIONAL INFORMATION.
 - 7. EXISTING REZINOR GAS FRED EVAPORATIVE COOLER MAKE UP AIR UNIT TO REMAIN. REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
 - 8. REMOVE EXISTING RELIEF DAMPER AND LOUVER. PATCH OPENING WITH BLANKED SHEET METAL. SEAL ALL SEAMS AND INSULATE OPENING WITH R-22 BATTON INSULATION.
 - 9. EXISTING RELIEF DAMPER TO REMAIN FOR FURNACE OUTDOOR AIR RELIEF.
 - 10. NO MECHANICAL WORK IN THIS AREA.

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 ALBUQUERQUE, NM 87110
 PROJECT #14031

P. I.F.P. J.H. E.

PROFESSIONAL ENGINEER
 STATE OF NEW MEXICO
 1997

By: [Signature]

autotroph

LUISA VELA LONDEG
 SENIOR CENTER SENIOR CENTER PISCATAWAY
 100 LUISA STREET SIOUX FALLS/SIOUX FALLS SIOUX FALLS
 SIOUX FALLS, SD 57108 SIOUX FALLS, SD 57108 SIOUX FALLS, SD 57108

LUISA SENIOR CENTER
 MECHANICAL DEMOLITION
 FLOOR PLAN

Project No.	1210
Date	15 JULY 2015
Drawn By	RD
Checked By	KMT, BCS

L-M1.0

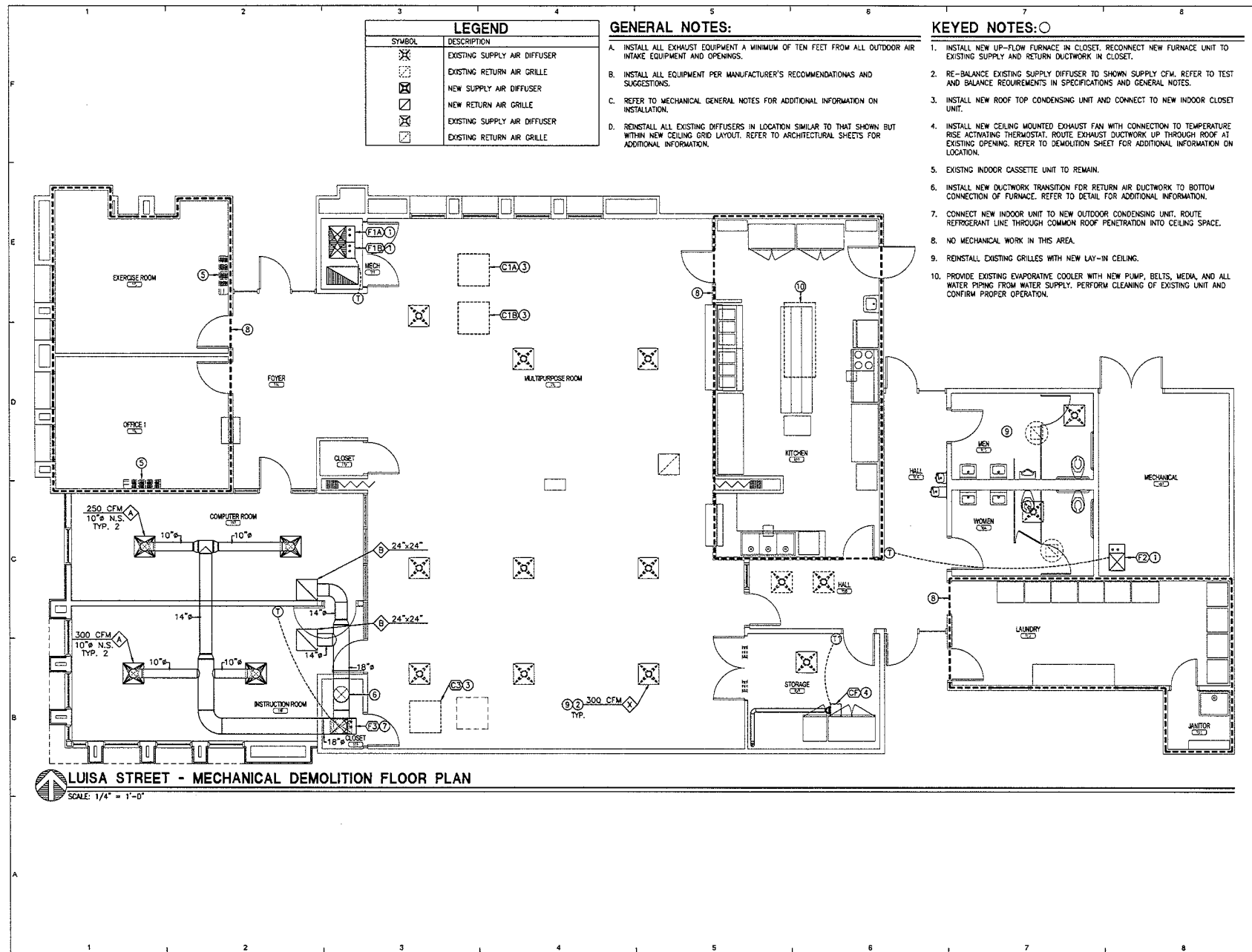
LEGEND	
SYMBOL	DESCRIPTION
	EXISTING SUPPLY AIR DIFFUSER
	EXISTING RETURN AIR GRILLE
	NEW SUPPLY AIR DIFFUSER
	NEW RETURN AIR GRILLE
	EXISTING SUPPLY AIR DIFFUSER
	EXISTING RETURN AIR GRILLE

GENERAL NOTES:

- INSTALL ALL EXHAUST EQUIPMENT A MINIMUM OF TEN FEET FROM ALL OUTDOOR AIR INTAKE EQUIPMENT AND OPENINGS.
- INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND SUGGESTIONS.
- REFER TO MECHANICAL GENERAL NOTES FOR ADDITIONAL INFORMATION ON INSTALLATION.
- REINSTALL ALL EXISTING DIFFUSERS IN LOCATION SIMILAR TO THAT SHOWN BUT WITHIN NEW CEILING GRID LAYOUT. REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION.

KEYED NOTES:

- INSTALL NEW UP-FLOW FURNACE IN CLOSET. RECONNECT NEW FURNACE UNIT TO EXISTING SUPPLY AND RETURN DUCTWORK IN CLOSET.
- RE-BALANCE EXISTING SUPPLY DIFFUSER TO SHOWN SUPPLY CFM. REFER TO TEST AND BALANCE REQUIREMENTS IN SPECIFICATIONS AND GENERAL NOTES.
- INSTALL NEW ROOF TOP CONDENSING UNIT AND CONNECT TO NEW INDOOR CLOSET UNIT.
- INSTALL NEW CEILING MOUNTED EXHAUST FAN WITH CONNECTION TO TEMPERATURE RISE ACTUATING THERMOSTAT. ROUTE EXHAUST DUCTWORK UP THROUGH ROOF AT EXISTING OPENING. REFER TO DEMOLITION SHEET FOR ADDITIONAL INFORMATION ON LOCATION.
- EXISTING INDOOR CASSETTE UNIT TO REMAIN.
- INSTALL NEW DUCTWORK TRANSITION FOR RETURN AIR DUCTWORK TO BOTTOM CONNECTION OF FURNACE. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
- CONNECT NEW INDOOR UNIT TO NEW OUTDOOR CONDENSING UNIT. ROUTE REFRIGERANT LINE THROUGH COMMON ROOF PENETRATION INTO CEILING SPACE.
- NO MECHANICAL WORK IN THIS AREA.
- REINSTALL EXISTING GRILLES WITH NEW LAY-IN CEILING.
- PROVIDE EXISTING EVAPORATIVE COOLER WITH NEW PUMP, BELTS, MEDIA, AND ALL WATER PIPING FROM WATER SUPPLY. PERFORM CLEANING OF EXISTING UNIT AND CONFIRM PROPER OPERATION.



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

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MECHANICAL & ELECTRICAL ENGINEERING, INC.
PROJECT #14031

P: IFP: LH: EI:

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LUISA SENIOR CENTER
MECHANICAL FLOOR PLAN

LUISA SENIOR CENTER
1810 LUISA STREET
SANTA FE, NM 87505

HILL CONSUELO SENIOR CENTER
330 JUAN CARLOS STREET
SANTA FE, NM 87505

PASADENA SENIOR CENTER
660 ALTA VISTA STREET
SANTA FE, NM 87505

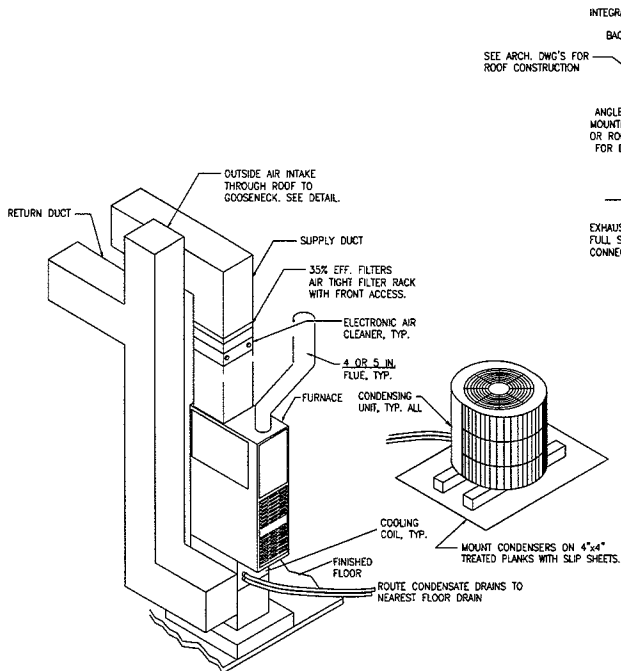
Project number: 1210

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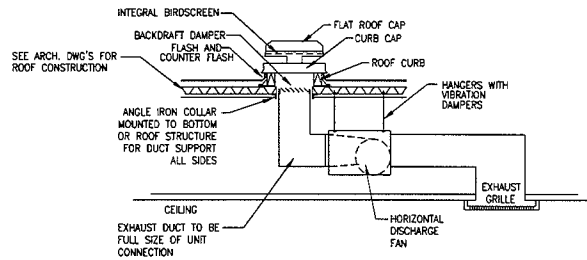
Drawn by: RD

Checked by: KMT,BCS

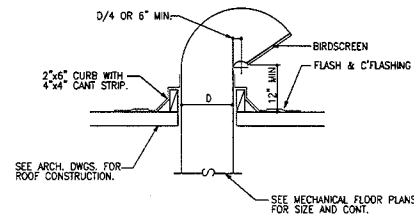
L-M1.1



UPFLOW FURNACE AND CONDENSING UNIT DETAIL
NOT TO SCALE



CEILING CABINET FAN DETAIL
NOT TO SCALE



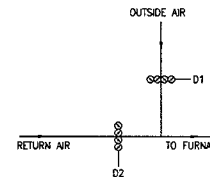
GOOSENECK DETAIL
NOT TO SCALE

ECONOMIZER SEQUENCE OF OPERATIONS:

ECONOMIZER OPERATION SHALL BE DETERMINED BASED ON OUTSIDE AIR TEMPERATURE. ECONOMIZERS SHALL ACTIVATE WHEN OUTSIDE AIR TEMPERATURE IS 65 DEG F (ADJUSTABLE) OR BELOW AND COOLING IS REQUIRED.

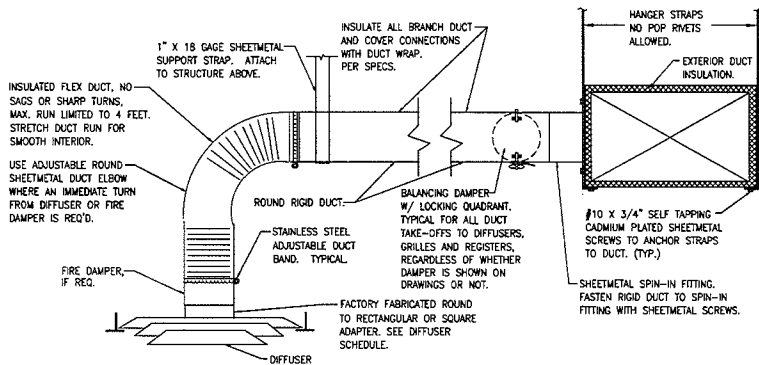
NORMAL OPERATION
OUTSIDE AIR DAMPER (D1) SHALL BE MINIMALLY OPEN TO ALLOW REQUIRED OUTSIDE AIR INTO SYSTEM.
RETURN AIR DAMPER (D2) SHALL BE 100% OPEN.

ECONOMIZER OPERATION
OUTSIDE AIR DAMPER (D1) SHALL BE 100% OPEN.
RETURN AIR DAMPER (D2) SHALL BE 100% CLOSED.

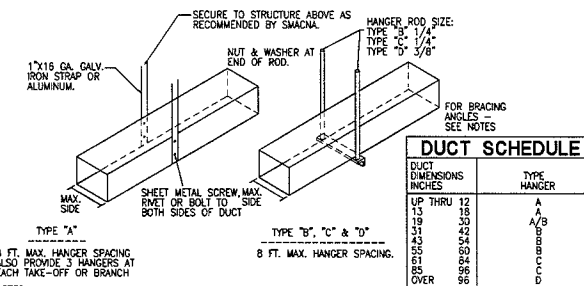


ECONOMIZER DAMPER INSTALLATION

SCALE: NOT TO SCALE



RECTANGULAR DUCTWORK DIFFUSER CONNECTION DETAIL
NOT TO SCALE

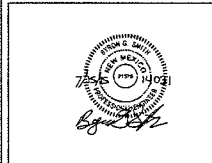


DUCT HANGERS

NOT TO SCALE

- NOTES: -----
- FOR SEVERAL DUCTS ON ONE HANGER TYPE "B"- "C" OR "D" MAY BE USED. SIZE OF HANGER WILL BE SELECTED ON THE SUM OF DUCT WIDTHS EQUAL TO MAX. WIDTH OF DUCT SCHEDULE.
 - SCHEDULE FOR ANGLES FOR BRACING: TYPE "B" 1-1/2"x1-1/2"x1/8" ANGLE MAX. SPACING 8'-0" SPACING: TYPE "C" 1-1/2"x1-1/2"x3/16" ANGLE MAX. SPACING 8'-0" SPACING: TYPE "D" 2-1/2"x1-1/2" MAX. SPACING 4'-0" CENTERS.

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CORPORATION, INC. 2617 Washington St., N.E.
Albuquerque, NM 87112
PROJECT #14031



autotroph
MECHANICAL DETAILS

LUISA SENIOR CENTER YULA CONDELO PLS/TAMP
SENIOR CENTER SENIOR CENTER SENIOR CENTER
1601 LUISA STREET 1300 CHAMBERLAIN STREET 601 N. 1ST STREET
SANTA FE, NM 87505 SANTA FE, NM 87505 SANTA FE, NM 87505

LUISA SENIOR CENTER
MECHANICAL DETAILS

Project Number: 1210
Date: 15 JULY 2015
Client: R.D.
Checked by: KMT, BCS

L-M5.0

2009 INTERNATIONAL ENERGY CODE COMPLIANCE: Commercial					
Design Standards:		ASHRAE 55-2004			
ASHRAE 188-2007		ASHRAE 90.1-2007			
ASHRAE 62.1-2007		UMC-2009			
Location: Santa Fe, NM		Climate Zone: ES			
Design Temperatures		Set Points			
Season	Dry Bulb	Wet Bulb	Mode	Occupied	Unoccupied
Summer	88°F db	64°F wp	Heating	68°F	60°F
Winter	8°F	N/A	Cooling	72°F	85°F
Section 503: Building Mechanical System (Mandatory & Prescriptive Method)					
Subsection Number & Title	N/A	Notes:			
503.2.1: Energy Calculations		Performed using Trane Trace.			
503.2.2: Equipment and System Sizing		Matched Trane Trace outputs with unit size available.			
503.2.3: HVAC Equipment Performance		F1-F3 SEER 13 or greater.			
503.2.4: HVAC System Controls		Single zone programmable thermostats.			
503.2.5: Ventilation		Meet ASHRAE 62.1 as a minimum (F1 with economizer).			
503.2.6: Energy Recovery Ventilation	NA				
503.2.7: Duct Insulation and Sealing	NA				
503.2.8: Pipe Insulation	NA				
503.2.9: HVAC System Completion		T&B and O&M repairs required.			
503.2.10: Air System Design and Control		All units have minimum 0.5" WC ESP as required.			
503.2.11: Heating Outside a Building	NA				
503.3: Single HVAC Systems		Single zone programmable thermostats.			
503.4: Complex HVAC Systems	NA				

MECHANICAL EQUIPMENT SCHEDULE:

F1 - F3, C1 - C3
 FORCED AIR FURNACE AND RELATED EQUIPMENT: UP-FLOW WITH BOTTOM RETURN AIR FLEXUM, NATURAL GAS FIRED WITH ONE STAGE, INDUCED-COMBUSTION FORCED AIR FURNACE UNIT WITH FAN AND 4 MOTOR SPEEDS, ALUMINIZED STEEL HEAT EXCHANGER, INCLUDE ECONOMIZER CONTROLS FOR EXTERIOR DAMPER ECONOMIZER CONTROL. PROVIDE AND INSTALL MOTOR STARTERS, RELAYS, SWITCHES, 1" INCH DISPOSABLE FILTERS, AND ALL NECESSARY EQUIPMENT FOR COMPLETE AND PROPER OPERATION. CRIGIFIED FOR OPERATION AT 7200 FT. ASL. INSTALL UNIT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. UNITS ARE LOCATED APPROXIMATELY 125 LINEAR REFRIGERANT FEET FROM CONDENSER LOCATION (SEE NOTE BELOW). INCLUDE DISCONNECT SWITCH AT UNIT. INCLUDE ALL ASSOCIATED DUCTWORK, INCLUDE ALL NECESSARY EQUIPMENT FOR COMPLETE AND PROPER OPERATION. PROVIDE SMOKE DETECTOR IN SUPPLY AND RETURN AIR DUCT ON UNITS 2000 CFM AND GREATER. CONNECT NEW DUCT SMOKE DETECTORS TO EXISTING "FACP"
 ELEC.: 115V/1PH/60HZ
 CARRIER FURNACE MODEL NO. 560LA.

SYM	CFM	OA	ESP	CLNG	"CARRIER" COND.	OUT	"CARRIER" HTNG	MAX
F1A*	3000	460	0.5	41.2	CNPPV4217	142	070-16	9.5
F1B*	"	"	"	"	CNPPV4217	"	070-16	9.5
F2	1200	115	0.5	33.8	CNPPV3617	53	070-12	6.8
F3	2100	525	0.5	56.7	CNPPV6024	105	090-20	13.6

*FURNACE MODELS ARE TWINNED TO ACHIEVE REQUIRED HEATING CAPACITY, COOLING CAPACITY, AND CFM. CAPACITIES SHOWN FOR F1A ARE FOR TWINNED UNIT.

PROVIDE ECONOMIZERS WITH DAMPER CONTROLS FOR F1 AND F3. REFER TO ECONOMIZER DETAIL FOR ADDITIONAL INFORMATION.

CONDENSER	CAP.	ELEC.		
SYM	MODEL NO.	MBH	MCA	V/PH/Hz
C1A*	24AB8342A003	42	23.5	208/1/60
C1B*	24AB8342A003	42	23.5	208/1/60
C2	24AB8336A003	36	21.5	208/1/60
C3	24AB8360A003	60	34.2	208/1/60

*F1 WILL BE PROVIDED WITH TWO CONDENSING UNITS, ONE FOR EACH COOLING COIL.

NOTE: CONTRACTOR SHALL SIZE REFRIGERANT LINES FROM THE DX COIL UNIT TO THE CONDENSER ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FIELD INSTALLED ACCESSORIES FOR THE CONDENSERS TO INCLUDE UNIT DISCONNECT. PROVIDE AND INSTALL ALL REFRIGERANT PIPING, VALVES, FITTINGS, AND INSULATION FOR CORRECT OPERATION.

CF EXHAUSTER: CEILING EXHAUSTER COMPLETE WITH DISCONNECT, BACKDRAFT DAMPER, WALL OR ROOF CAP, SPEED CONTROLLER, MOUNTING BRACKETS, CEILING GRILLE, ROUND DUCT ADAPTOR, AND ALL EQUIPMENT NECESSARY FOR COMPLETE INSTALLATION.
 ELEC.: 120V/1PH/60HZ.

"GREENHECK" CF	FAN	ESP	RPM	WATTS	WGHT	CONTROL
SP-B110	65	D.3	688	100	11	T1

T THERMOSTAT: ADAPTIVE INTELLIGENT RECOVERY, ENERGY SAVING, MULTIPLE SETBACK, TEMPORARY OVERRIDE, LCD DISPLAY, BATTERY BACKUP, TRANSFORMER, COOLING SUBBASE, AUTOMATIC CHANGE OVER FROM WINTER TO SUMMER, AND ALL CONTROLS NECESSARY FOR COMPLETE OPERATION. INCLUDE BATTERIES.
 HONEYWELL T8600.

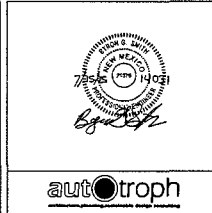
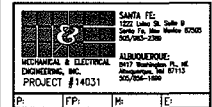
T1 LINE VOLTAGE THERMOSTAT: 110 LINE VOLTAGE, CLOSE ON TEMPERATURE RISE, 35 TO 85 DEG. F. TEMPERATURE RANGE, LOCKING COVER, SLOW, THERMOMETER, VERTICAL, FACEPLATE, WALL PLATE, ADJUSTABLE RANGE STOPS, AND ALL NECESSARY ITEMS FOR COMPLETE INSTALLATION AND OPERATION.
 HONEYWELL T641A.

DIFFUSER, REGISTER, AND GRILLE SCHEDULE:

- A SUPPLY AIR DIFFUSER: 24 IN. X 24 IN. PANEL SIZE, ALUMINUM MATERIAL, SQUARE CEILING MOUNTED SUPPLY AIR DIFFUSER WITH TRUE 360 DEG. PATTERN. INCLUDE DAMPER IN DUCT. COLOR #28 WHITE. DUCT SIZE AS SHOWN ON DRAWINGS.
 TITUS TMSA-AA.
- B RETURN AIR GRILLE: FABRICATED ALUMINUM GRILLE WITH 1/2 IN. X 1/2 IN. X 1/2 IN. SQUARES. INCLUDE FRAME FOR CORRECT CEILING INSTALLATION. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR CEILING APPLICATION. COLOR #28 WHITE. SIZE AS SHOWN ON DRAWINGS.
 TITUS MODEL 50F.

MECHANICAL / ELECTRICAL RESPONSIBILITY TABLE												
UNIT #	UNIT		DISCONNECT		STARTER/CONTRACTOR		CONTROL WIRE		CONTROL CONDUIT		AUTO SHUT-OFF	
	PROVIDED	INSTALLED	PROVIDED	INSTALLED	PROVIDED	INSTALLED	PROVIDED	INSTALLED	PROVIDED	INSTALLED	PROVIDED	INSTALLED
F	MC	MC	MC	EC	MC	MC	CC	CC	EC	EC	NA	NA
G	MC	MC	MC	EC	MC	MC	CC	CC	EC	EC	NA	NA
CF	MC	MC	NA	NA	NA	NA	CC	CC	EC	EC	NA	NA
T	MC	MC	NA	NA	NA	NA	CC	CC	EC	EC	NA	NA
T1	MC	MC	NA	NA	NA	NA	CC	CC	EC	EC	NA	NA

MC Mechanical Contractor
 EC Electrical Contractor
 CC Controls Contractor



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LUISA SENIOR CENTER
 MECHANICAL SCHEDULE

Project number: 1210
 Date: 15 JULY 2015
 Drawn by: RD
 Checked by: KMT, BGS

L-M6.0

PLUMBING FIXTURE SCHEDULE:

- P-1 DRINKING FOUNTAIN, HANDICAPPED; BARRIER-FREE, WALL-MOUNTED, BI LEVEL ONE, PIECE STAINLESS STEEL FOUNTAIN WITH SATIN FINISH. COMPLETE WITH WALL STOPS, FRONT PUSH BAR OPERATION, AND ALL ITEMS NECESSARY FOR COMPLETE OPERATION. WALL STOPS SHALL HAVE THREADED INLET AND COMPRESSION OUTLET CONNECTIONS. PROVIDE WALL SUPPORT SYSTEM BY ZURN, NO. Z-1225-BL WITH TOP AND BOTTOM PLATES, GANE TOUCH APRON "HALSEY-TAYLOR" 98324C. INSTALL PER ADA REQUIREMENTS.
ELEC: 120V/1PH/60HZ 15A
"HALSEY-TAYLOR" NO. HACOGBLSS-NF
WASTE = 2 IN., VENT = 1-1/2 IN., CW = 1/2 IN.
- GI GREASE INTERCEPTOR: FABRICATED STEEL GREASE INTERCEPTOR, ACID RESISTING RUBBER BASE COATING INSIDE AND OUTSIDE, REMOVABLE BAFFLES, THREADED INLET AND OUTLET, INTERNAL AIR RELIEF, DOUBLE WALL TRAP WITH CLEANOUT, GASKEET SCORATED COVER AND PSI SEAL OF APPROVAL. 150 GPM FLOWRATE, 300 LBS. GREASE CAPACITY AND 195 GALLON WATER CAPACITY.
"ZURN" NO. Z-1172 SIZE 1200
INLET AND OUTLET = 4 IN.

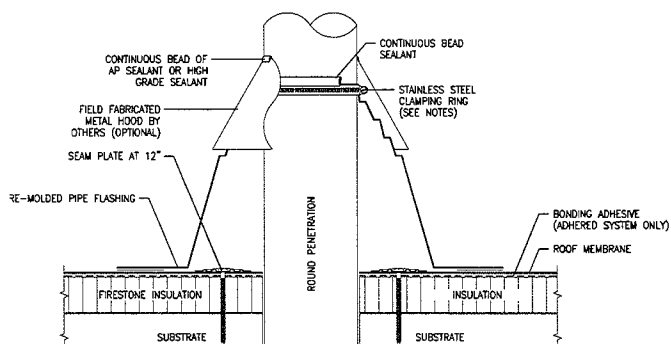
PLUMBING GENERAL NOTES:

1. COMPLETE ALL WORK IN FULL COMPLIANCE WITH THE U.P.C., U.M.C., I.B.C., LIFE SAFETY CODE, N.F.P.A., ADA, AND ALL LOCAL CODES AND ORDINANCES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE LAYOUT AND INSTALLATION OF THE PLUMBING SYSTEMS INCLUDING ALL COORDINATION WITH NEW AND EXISTING SERVICES, MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, CONDUIT, CEILING, AND ANY OTHER EQUIPMENT THAT MAY REQUIRE COORDINATION EFFORTS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR COORDINATION OF TEMPORARY CUT-OFF OF WATER, SEWER AND NATURAL GAS WITH OWNER AND FOR ALL NECESSARY TRENCHING, BACKFILLING, CUTTING, PATCHING, REPAIRING, ETC., ASSOCIATED WITH THE INSTALLATION OF THE PLUMBING SYSTEM SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE INSTALLATION OF THE FIXTURES WITH THE LOCAL CODE REQUIREMENTS FOR HANDICAP ACCESSIBILITY.
3. NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL ABOVE GRADE AND SHALL BE SCHEDULE 40 BLACK STEEL WRAPPED WITH SCOTCHWRAP OR POLYETHYLENE PIPING WHEN BURIED. PIPING SHALL BE PAINTED WHEN EXPOSED.
4. REFER TO MECHANICAL SCHEDULE FOR MANUFACTURER AND MODEL FOR NATURAL GAS SUPPLY LINE SIZES FOR INDIVIDUAL MECHANICAL EQUIPMENT.
5. ROUTE PIPING AS NEARLY AS POSSIBLE TO THE ROUTING INDICATED ON THE PLANS, BUT MAKE MINOR CHANGES IN ROUTING TO ACCOMMODATE THE CONDITIONS AT THE SITE. DO NOT UNDERTAKE MAJOR REROUTING OF PIPING WITHOUT WRITTEN APPROVAL FROM OWNER OR ENGINEER. BE RESPONSIBLE FOR ALL REQUIRED TRANSITIONS, OFFSETS, MINOR RELOCATIONS, AND ALL ASSOCIATED FITTINGS, PIPING, AND EQUIPMENT TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM.
6. ALL CONTRACTORS BIDDING ON THIS PROJECT ARE CAUTIONED TO VISIT THE SITE AND MAKE ALL NECESSARY INQUIRIES TO DETERMINE THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BIDS. NO SUBSEQUENT ALLOWANCE WILL BE MADE TO COMPENSATE FOR LACK OF PRE-BID INSPECTIONS BY THE SUCCESSFUL CONTRACTOR. ANY LINES ENCOUNTERED WHICH MAY INTERFERE WITH NEW CONSTRUCTION SHALL BE RELOCATED IF ACTIVE AND ABANDONED IF INACTIVE BY THIS CONTRACTOR UNDER THIS CONTRACT BY FIRST CONTACTING THE ARCHITECT FOR A RULING AS TO THEIR REMOVAL, RELOCATION, ETC.
7. INSTALL ISOLATION VALVES AND UNIONS AT ALL BRANCH TAKEOFFS. PROVIDE ACCESS PANELS TO ALL INACCESSIBLE PLUMBING EQUIPMENT TO INCLUDE BUT NOT LIMITED TO VALVES, CONTROL VALVES, ETC.
8. PROVIDE GAS COCKS AND FLEXIBLE CONNECTIONS AT EACH GAS OUTLET FOR MECHANICAL EQUIPMENT.
9. INSTALL CONDENSATE AND OVERFLOW PIPING FROM ALL MECHANICAL EQUIPMENT DRAIN POINTS. EXTEND AND TERMINATE PER UMC/AJPC. ALL CONDENSATE AND OVERFLOW PIPING SHALL BE INSULATED PER SPECIFICATIONS FOR APPROPRIATE TEMPERATURE RANGE.

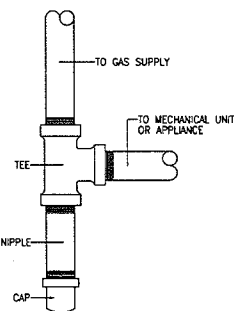
PLUMBING LEGEND

	CLEANOUT TO GRADE
	DOUBLE CLEANOUT TO GRADE
	VENT PIPING
	VENT THROUGH ROOF
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER REDISTRIBUTING PIPING
	EXISTING PIPING
	EXISTING SANITARY SEWER PIPING
	FLOOR DRAIN
	TRAP PRIMER
	WATER HAMMER ARRESTOR
	ROOF DRAIN
	POINT OF CONNECTION
	WALL CLEANOUT
	FINISHED FLOOR CLEANOUT

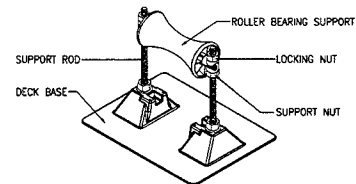
NOTE: THE SYMBOLS LEGEND IS A GENERAL REPRESENTATION OF ITEMS USED. SOME PROJECTS MAY NOT UTILIZE ALL SYMBOLS REPRESENTED. COORDINATE ALL SYMBOLS FROM PLANS.



PIPE PENETRATION THRU ROOF MEMBRANE
NOT TO SCALE



GAS SEDIMENT TRAP DETAIL
NOT TO SCALE



NOTE: PIPING SUPPORTS TO BE INSTALLED EVERY 8'-0"
PIPING SUPPORT DETAIL
NOT TO SCALE

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PROJECT #14031

FP: H: E:

Professional Engineer Seal for Santa Fe, New Mexico, License No. 19192, signed by B. J. [Signature]

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MECHANICAL & ELECTRICAL ENGINEERING, INC.

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500 LLOYD STREET 200 W. CONCELO STREET 800 N. W. W. STREET

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LUISA SENIOR CENTER
PLUMBING LEGEND AND GENERAL NOTES

Project Number: 1210
Date: 15 JULY 2015
Client: KANT.BGS
Checked by: KANT.BGS

L-P0.0

KEYED NOTES: ○

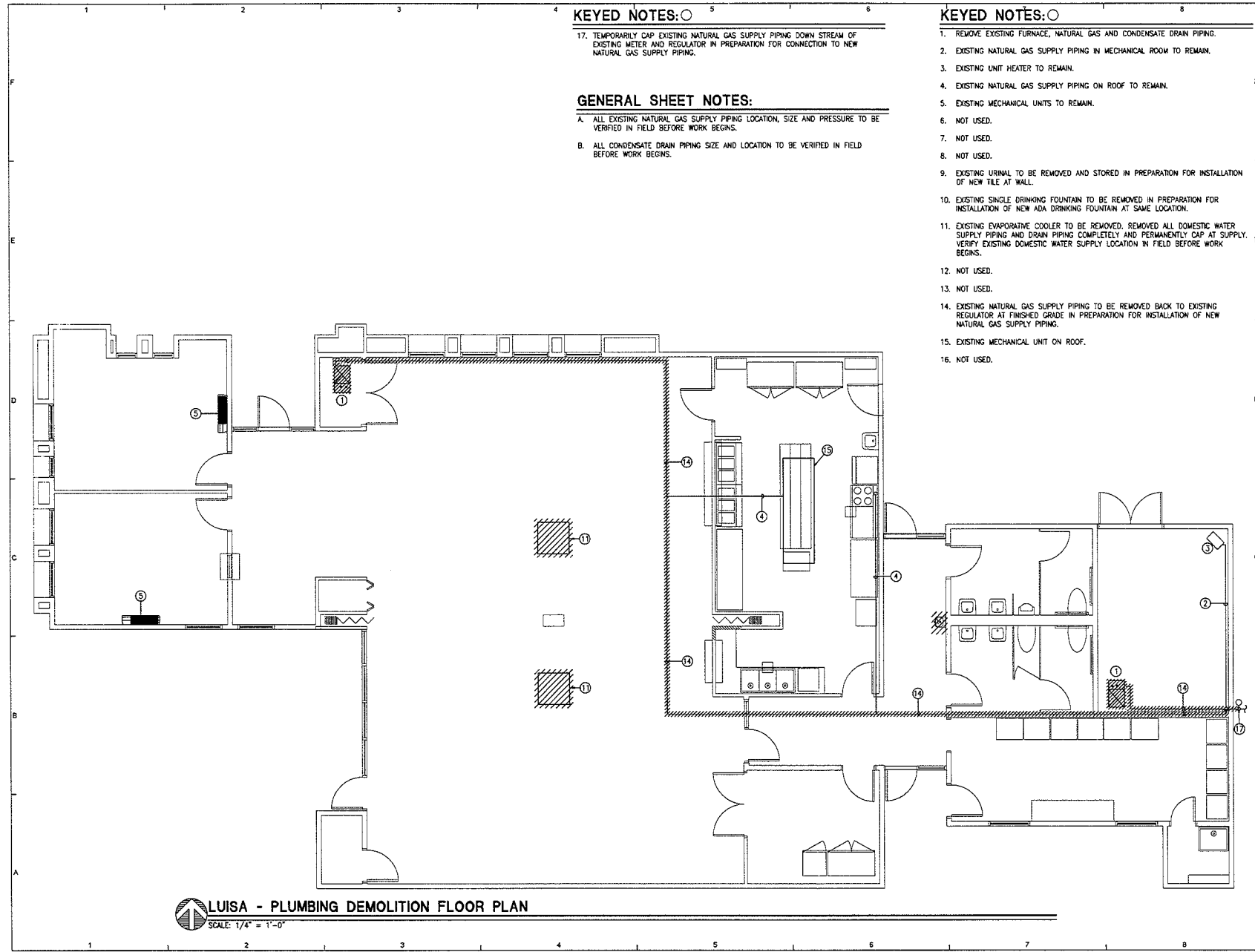
17. TEMPORARILY CAP EXISTING NATURAL GAS SUPPLY PIPING DOWN STREAM OF EXISTING METER AND REGULATOR IN PREPARATION FOR CONNECTION TO NEW NATURAL GAS SUPPLY PIPING.

GENERAL SHEET NOTES:

- A. ALL EXISTING NATURAL GAS SUPPLY PIPING LOCATION, SIZE AND PRESSURE TO BE VERIFIED IN FIELD BEFORE WORK BEGINS.
- B. ALL CONDENSATE DRAIN PIPING SIZE AND LOCATION TO BE VERIFIED IN FIELD BEFORE WORK BEGINS.

KEYED NOTES: ○

1. REMOVE EXISTING FURNACE, NATURAL GAS AND CONDENSATE DRAIN PIPING.
2. EXISTING NATURAL GAS SUPPLY PIPING IN MECHANICAL ROOM TO REMAIN.
3. EXISTING UNIT HEATER TO REMAIN.
4. EXISTING NATURAL GAS SUPPLY PIPING ON ROOF TO REMAIN.
5. EXISTING MECHANICAL UNITS TO REMAIN.
6. NOT USED.
7. NOT USED.
8. NOT USED.
9. EXISTING URINAL TO BE REMOVED AND STORED IN PREPARATION FOR INSTALLATION OF NEW TILE AT WALL.
10. EXISTING SINGLE DRINKING FOUNTAIN TO BE REMOVED IN PREPARATION FOR INSTALLATION OF NEW ADA DRINKING FOUNTAIN AT SAME LOCATION.
11. EXISTING EVAPORATIVE COOLER TO BE REMOVED. REMOVED ALL DOMESTIC WATER SUPPLY PIPING AND DRAIN PIPING COMPLETELY AND PERMANENTLY CAP AT SUPPLY. VERIFY EXISTING DOMESTIC WATER SUPPLY LOCATION IN FIELD BEFORE WORK BEGINS.
12. NOT USED.
13. NOT USED.
14. EXISTING NATURAL GAS SUPPLY PIPING TO BE REMOVED BACK TO EXISTING REGULATOR AT FINISHED GRADE IN PREPARATION FOR INSTALLATION OF NEW NATURAL GAS SUPPLY PIPING.
15. EXISTING MECHANICAL UNIT ON ROOF.
16. NOT USED.



LUISA - PLUMBING DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"

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MECHANICAL & ELECTRICAL
ENGINEERING, INC.

PROJECT #14031

P. FP: H: E:

PROFESSIONAL ENGINEER
NEW MEXICO
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14031

[Signature]

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Engineering & Construction

LUISA	VILLA CONSUELO	PASATEMPAS
SENIOR CENTER	SENIOR CENTER	SENIOR CENTER
300 LUP STREET	300 LUP STREET	300 LUP STREET
SANTA FE, NEW MEXICO	SANTA FE, NEW MEXICO	SANTA FE, NEW MEXICO

**LUISA SENIOR CENTER
PLUMBING DEMOLITION
FLOOR PLAN**

Plot Number:	1210
Date:	15 JULY 2015
Drawn by:	
Checked by:	KMT.BGS

L-P1.0

GENERAL SHEET NOTES:

A. RESTROOMS TO HAVE NEW TILE INSTALLED AT ALL WALLS AND FLOOR.

KEYED NOTES: (CONT.)

16. ROUTE AND CONNECT NEW SANITARY WASTE PIPING TO EXISTING SANITARY WASTE PIPING AT THIS LOCATION. VERIFY EXISTING SANITARY WASTE PIPING SIZE, LOCATION AND INVERT IN FIELD BEFORE WORK BEGINS.

17. NOT USED.

18. EXISTING DISHWASHER TO REMAIN CONNECTED TO EXISTING SANITARY WASTE CONNECTION AS IS. EXISTING DISHWASHER CANNOT BE CONNECTED TO NEW GREASE INTERCEPTOR PIPING PER U.P.C. CODE REQUIREMENTS.

19. NOT USED.

20. ROUTE AND CONNECT NEW NATURAL GAS SUPPLY PIPING TO EXISTING NATURAL GAS SUPPLY PIPING DOWNSTREAM OF EXISTING METER AND REGULATOR.

KEYED NOTES: (CONT.)

8. EXISTING MECHANICAL UNIT TO REMAIN.

9. ROUTE CONDENSATE DRAIN PIPING TO EXISTING FLOOR DRAIN IN MECHANICAL ROOM. VERIFY EXISTING FLOOR DRAIN LOCATION IN FIELD BEFORE WORK BEGINS.

10. ROUTE CONDENSATE DRAIN PIPING FOR NEW MECHANICAL EQUIPMENT TO DAYLIGHT PER U.P.C. CODE REQUIREMENTS.

11. INSTALL NEW DRINKING FOUNTAIN AT THIS LOCATION. CONNECT NEW DRINKING FOUNTAIN TO EXISTING WASTE AND DOMESTIC WATER SUPPLY PIPING.

12. INSTALL WASTE PIPING AT INLET OF NEW GREASE INTERCEPTOR (GI) AS SHOWN. CAP WASTE PIPING IN PREPARATION FOR FUTURE CONNECTION.

13. INSTALL CONDENSATE PUMP "LITTLE GIANT" MODEL NO. EC-400 FOR EXISTING MECHANICAL UNIT AT THIS LOCATION.

14. ROUTE CAST IRON VENT FOR INTERCEPTOR UP AT THIS LOCATION PER U.P.C. CODE REQUIREMENTS. PAINT VENT PIPING TO MATCH BUILDING EXTERIOR.

15. NOT USED.

KEYED NOTES:

1. EXISTING MECHANICAL UNIT TO REMAIN.

2. EXISTING NATURAL GAS SUPPLY PIPING IN MECHANICAL ROOM TO REMAIN.

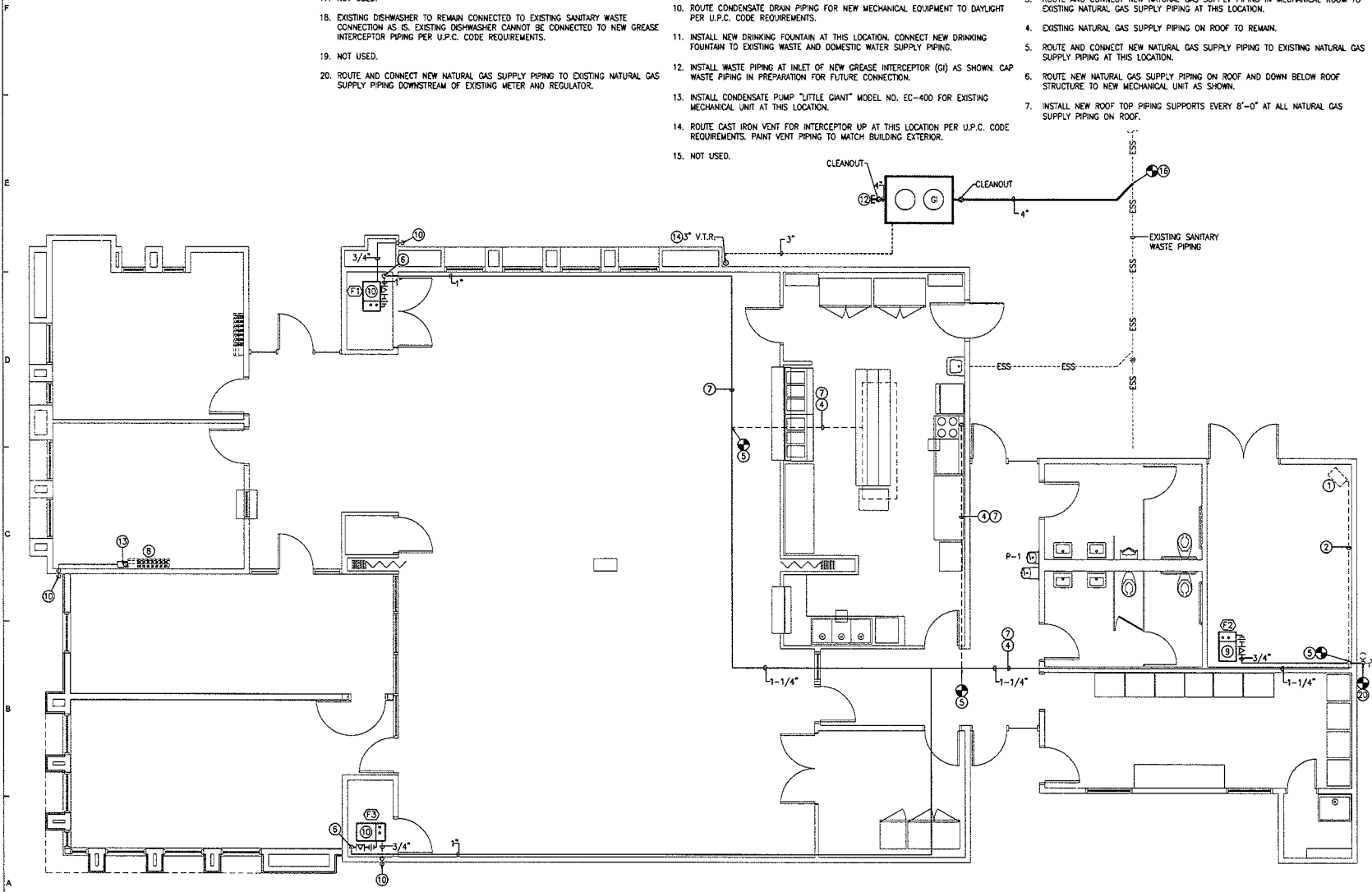
3. ROUTE AND CONNECT NEW NATURAL GAS SUPPLY PIPING IN MECHANICAL ROOM TO EXISTING NATURAL GAS SUPPLY PIPING AT THIS LOCATION.

4. EXISTING NATURAL GAS SUPPLY PIPING ON ROOF TO REMAIN.

5. ROUTE AND CONNECT NEW NATURAL GAS SUPPLY PIPING TO EXISTING NATURAL GAS SUPPLY PIPING AT THIS LOCATION.

6. ROUTE NEW NATURAL GAS SUPPLY PIPING ON ROOF AND DOWN BELOW ROOF STRUCTURE TO NEW MECHANICAL UNIT AS SHOWN.

7. INSTALL NEW ROOF TOP PIPING SUPPORTS EVERY 8'-0" AT ALL NATURAL GAS SUPPLY PIPING ON ROOF.



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PROJECT #14031

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SANTA FE, NEW MEXICO SANTA FE, NEW MEXICO SANTA FE, NEW MEXICO

LUISA SENIOR CENTER

PLUMBING FLOOR PLAN

Project Number	1210
Date	15 JULY 2015
Drawn by	RJD
Checked by	KMT, BGS

L-P1.1

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

ELECTRICAL SYMBOLS LEGEND			
LIGHTING		POWER	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	LIGHT (SEE LIGHT FIXTURE SCHEDULE)		DUPLEX RECEPTACLE, 18" AFF
	EMERGENCY LIGHT		FOURPLEX RECEPTACLE, 18" AFF
	STRIP LIGHT		250V RECEPTACLE, 18" AFF
	WALL MOUNTED		DUPLEX RECEPT. 1/2 SWITCH, 18" AFF
	UNDER CABINET		GND FLT INTERRUPT RECEPT., 18" AFF
	LIGHTING TRACK		WEATHER PROOF RECEPTACLE, 18" AFF
	OUTDOOR POLE MOUNTED		SPECIAL RECEPTACLE
	CEILING SURFACE MOUNTED		SINGLE SPECIAL
	RECESSED DOWNLIGHT		DUPLEX SPECIAL
	WALL MOUNTED DOWNLIGHT		SIMPLEX RECEPTACLE
	EMERGENCY EXIT		CEILING MOUNTED DUPLEX RECEPTACLE
	EMERGENCY EGRESS, 90° AFF		FLOOR MOUNTED DUPLEX RECEPTACLE
	CEILING FAN		CLOCK OUTLET
	SINGLE POLE SWITCH, 42" AFF		SURFACE MOUNTED PLUG RACEWAY
	THREE WAY SWITCH, 42" AFF		DISCONNECT SWITCH
	FOUR WAY SWITCH, 40" AFF		THERMAL OVERLOAD SWITCH
	WEATHER PROOF SWITCH, 42" AFF		MOTOR OR EXHAUST FAN
	DIMMER SWITCH, 42" AFF		PULL BOX
	MOTOR SWITCH, 42" AFF		CEILING MOUNTED JUNCTION BOX
	PUSH BUTTON SWITCH		WALL MOUNTED JUNCTION BOX
	TIME SWITCH		DROP CORD
	LIGHTING CONTACTOR		THERMOSTAT OUTLET BOX
	PHOTO CELL		ELECTRICAL PANEL, SURFACE MOUNTED
	OCCUPANCY SENSOR		ELECTRICAL PANEL, RECESSED MOUNTED
	EXISTING DEVICE SHOWN DASHED		PAD MOUNT TRANSFORMER
			WALL MOUNT TRANSFORMER
			ELECTRICAL KEYED NOTE
			EQUIPMENT SYMBOL
			CONDUIT LEADER LINE FOR SIZES
			BRANCH CIRCUIT HOMERUN
			GROUND
			GROUND ROD
			LIGHTNING ARRESTOR
			FIRE ALARM PULL BOX, 42" AFF
			FIRE ALARM STROBE, 90° AFF
			FIRE ALARM HORN/STROBE, 90° AFF
			FA MAGNETIC DOOR HOLDER
			FA FIRE REMOTE DAMPER
			FA REMOTE INDICATOR
			FLOW SWITCH
			TAMPER SWITCH
			HEAT DETECTOR
			SMOKE DETECTOR
			CEILING SPEAKER
			WALL MOUNTED SPEAKER, 90° AFF
			SPEAKER VOLUME CONTROL, 42" AFF
			TELEVISION OUTLET
			SECURITY DIGITAL KEY PAD
			SECURITY INFRARED MOTION SENSOR
			SECURITY DOOR CONTACTS
			SECURITY CAMERA
			COMMUNICATIONS/DATA OUTLET
			COMMUNICATIONS/DATA OUTLET, IN FLOOR
			TELEPHONE OUTLET
			TELEPHONE OUTLET, IN FLOOR
			PA CALL SWITCH
			BUZZER
			BELL
			MICROPHONE, WALL MOUNTED
			MICROPHONE, FLOOR MOUNTED
			TELEPHONE BACKGROUND
			PANIC BUTTON
			CARD READER
			AUTO DIALER
			WIRELESS MICROPHONE TRANSMITTER
			AUDIO MICROPHONE INPUT

NOTE: THIS SYMBOLS LEGEND IS A GENERAL REPRESENTATION OF DEVICES USED. SOME PROJECTS MAY NOT UTILIZE ALL SYMBOLS REPRESENTED. COORDINATE ALL SYMBOLS FROM PLANS.

PANELBOARD GENERAL NOTES:

- PANELBOARDS SHALL HAVE BOX-IN BREAKERS, AND DOOR-IN-DOOR CONSTRUCTION. ALL SURFACE MOUNTED PANELS IN ANY FINISHED AREAS SHALL BE PROVIDED WITH SKIRTS FLOOR-TO-CEILING (FIELD VERY DIMENSIONS), AND ELSEWHERE AS NOTED ON THE PLANS.
- PANELBOARDS SHALL HAVE TYPED CIRCUIT DIRECTORIES, PLACED BEHIND CLEAR PLASTIC PROTECTIVE COVER. DESIGNATIONS ON DIRECTORY SHALL BE MORE DESCRIPTIVE THAN AS SHOWN ON THE BRANDING PANEL SCHEDULES. "SPARES" AND "SPACES" SHALL BE INDICATED ON DIRECTORY WITH ERASABLE PENCIL (NOT TYPED).
- PANELBOARDS SHALL BE PROVIDED WITH NAMEPLATES SECURED TO EQUIPMENT WITH STEEL SCREWS. NAMEPLATES SHALL BE LAMINATED PLASTIC WITH ENGRAVED 3/4" MIN. WHITE LETTERS ON BLACK BACKGROUND AND SHALL INDICATE PANEL DESIGNATION, VOLTAGE, PHASE, AND AMPACITY AND LOCATION OF OVERCURRENT PROTECTIVE DEVICE FEEDING PANEL.
- PANELBOARDS SHALL BE PROVIDED WITH GROUND BUS/GROUND STRIP MOUNTED ON A CLEAN SURFACE OF THE PANELBOARD CAB. GROUND CONDUCTOR SHALL BE PROVIDED TO THE PANELBOARD GROUND BUS FROM THE GROUND SYSTEM IN THE SERVICE ENTRANCE SECTION OF DISTRIBUTION SECTION.
- PANELBOARDS SHALL HAVE FACTORY FURNISHED CIRCUIT BREAKER NUMBERING, PUNCHED TAPE OR MARKERS WILL NOT BE PERMITTED. BRANCH CIRCUIT BREAKER NUMBER ON PANELBOARDS SHALL MATCH NUMBERING AS SHOWN ON THE PLANS.
- BRANCH CIRCUIT CONDUCTORS EXTENDING FROM PANELBOARDS TO RESPECTIVE DEVICES SHALL BE COLOR CODED AND SHALL BE INSTALLED CONTINUOUS IN EACH RUN AND SHALL HAVE A TAG DESIGNATING THE BRANCH CIRCUIT NUMBERS LOCATED AT ALL JUNCTION BOXES. THE COLOR CODE SCHEME SHALL BE AS FOLLOWS:
 - FOR 120/240V PHASE A - BLACK, PHASE B - RED, NEUTRAL - WHITE, EQUIPMENT GROUND - GREEN
- PER NEC, ALL BRANCH CIRCUIT PANELBOARDS SHALL BE PROVIDED WITH GFI AND AFCI CIRCUIT BREAKERS FOR APPROPRIATE CIRCUITS, TWO AND THREE POLE CIRCUIT
 - BREAKERS SHALL BE PROVIDED FOR MULTIWIRE BRANCH CIRCUITS.
 - USE "TRAC" BREAKERS FOR HEATING/AIR CONDITIONING LOADS AND "SNO" BREAKERS FOR LIGHTING CIRCUITS.
- PROVIDE PANELS WITH LUGS/CONNECTIONS SIZED FOR FEEDERS SPECIFIED. FEEDERS WERE OVERSIZED PER NEC FOR SEPARATING FACTORS, COORDINATE FEEDER SIZES WITH EQUIPMENT SUPPLIER TO ORDERING.

MECHANICAL GENERAL NOTES:

- COORDINATE AND PROVIDE ALL POWER NECESSARY FOR MECHANICAL EQUIPMENT AS INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS.
- CEILING MOUNTED J-BOXES, DEVICES, AND EQUIPMENT SHOWN FOR SCHEMATIC PURPOSES ONLY. CONTRACTOR SHALL COORDINATE EXACT PLACEMENT OF CEILING MOUNTED EQUIPMENT WITH ALL TRADES WORK IN FIELD WITH CONSIDERATION OF FIELD CONDITIONS TO AVOID CONFLICTS. LOCATION OF ALL DEVICES SHALL BE COORDINATED ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- REFER TO THE CONTROL DIAGRAMS AND RESPONSIBILITY TABLES SHOWN ON THE MECHANICAL DRAWINGS FOR EQUIPMENT AND WIRING TO BE FURNISHED AND INSTALLED BY DIVISION 16 CONTRACTOR. ADDITIONAL COMPENSATION FOR CONTROL AND INTERLOCK WIRING, CONTROL COMPONENTS, AND LACK OF COORDINATION BETWEEN MECHANICAL AND ELECTRICAL WILL NOT BE ALLOWED UNDER ANY CIRCUMSTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE AND OPERATIONAL MECHANICAL/ELECTRICAL SYSTEM.
- REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND ELECTRICAL CHARACTERISTICS. VERIFY EQUIPMENT LOCATIONS WITH MECHANICAL PRIOR TO ROUGH-IN.
- AT ALL ACCESS DOOR LOCATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT IN HARD CEILING AREAS, PROVIDE A SINGLE POLE SWITCH, DUPLEX RECEPTACLE AND KEYLESS PORCELAIN SOCKET WITH 5-410 JF, 100 WATT LAMP AND WIRE GUARD PER NEC REQUIREMENTS. COORDINATE WITH MECHANICAL.
- ALL CONDUIT SHALL BE CONCEALED IN WALLS AND ABOVE CEILINGS. EXPOSED CONDUIT AND CONDUIT INSTALLED ON THE ROOF WILL NOT BE APPROVED UNDER ANY CIRCUMSTANCE.
- MOUNT DISCONNECT SWITCH IN CONVENIENT LOCATION AT UNIT, PER NEC. COORDINATE LOCATION OF CONTROL'S WITH MECHANICAL. PRIOR TO CONDUIT ROUGH-IN, PROVIDE DISCONNECT SWITCH WITH EQUIPMENT GROUND BUS AND TERMINATE ALL EQUIPMENT GROUNDING CONDUCTORS AT DISCONNECT SWITCH EQUIPMENT GROUND BUS (DO NOT USE SIREM OR SINGLE LUG FOR EQUIPMENT GROUND CONNECTION). PROVIDE WEATHER-TIGHT FLEXIBLE CONDUIT CONNECTION FROM DISCONNECT SWITCH TO UNIT (NO EXCEPTIONS). ALL CONDUIT SHALL BE CONCEALED AS MUCH AS POSSIBLE FROM THE DISCONNECT SWITCH TO THE PANEL INDICATED. DISCONNECT SWITCH SHALL BE PROVIDED WITH ENGRAVED MARKA NAMEPLATE INDICATING PANEL AND BRANCH CIRCUIT CONNECTION. COORDINATE MOTOR HORSEPOWER OF UNIT, VOLTAGE AND PHASE FOR SERVICE PROVIDED WITH MECHANICAL TO AVOID CONFLICTS IN THE FIELD.

DEMOLITION NOTES:

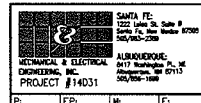
- THESE NOTES SHALL APPLY TO DEMOLITION AREAS, REDEMATED NEW WORK AREAS AND ENTIRE PROJECT.
- BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR SUBMITTING A COMPLETE PRICE WITHIN THE SCOPE OF THE PLANS AND SPECIFICATIONS. VERIFY THE EXTENT OF DEMOLITION AND REMOVALS PRIOR TO PRICING. INCLUDE ALL WORK REQUIRED TO COMPLETELY DISCONNECT ASSOCIATED EQUIPMENT AND TO COMPLETELY REMOVE ALL ASSOCIATED BRANCH CIRCUIT WIRING, WHERE REQUIRED. WHEN UNCLEAR, ANY QUESTIONS ARISING DURING THE PRICING PERIOD IN REGARD TO THE EXTENT OF WORK OR ANY OTHER ISSUE RELATING TO THIS PROJECT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, NOT AFTER THE PROJECT HAS BEEN AWARDED. PRIOR TO THE CONCLUSION OF THE ADDENDUM PERIOD IN THE PRICING TIME FRAME, WITHOUT ANY CLARIFICATION BEYOND THESE AND THE PRICING DOCUMENTS, THE SUBMITTAL OF A PRICING WARRANTS THAT THE BIDDER FULLY UNDERSTANDS THE SCOPE.
 - REMOVE ALL EXISTING MATERIAL AND EQUIPMENT INDICATED AND SALVAGE TO THE OWNER. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ELECTRICAL EQUIPMENT TO BE REMOVED. ALL EQUIPMENT REMOVED, NOT CLAIMED BY THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE PROPERLY DISPOSED OF. ALL EQUIPMENT THAT HAS BEEN REMOVED TO BE DISPOSED OF IN AN APPROVED MANNER PER THE LOCAL AUTHORITY HAVING JURISDICTION.
 - DAMAGE TO WALLS, CEILING, FLOOR, ETC. SHALL BE REPAIRED IN A PROFESSIONAL MANNER WITH MATCHING FINISH MATERIAL. SEAL ALL WALL AND CEILING, ROOF, AND FOUNDATION OPENINGS.
 - THE LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS IS BASED ON SITE VISITS AND THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. SOME DISCREPANCIES MAY EXIST, NOT ALL BUILDING DETAILS AND BRANCH CIRCUIT CONDUIT/WIRING TO BE REMOVED ARE NOT ALL BE SHOWN ON THE PLANS. VERIFY THE EXACT LOCATIONS OF EQUIPMENT TO BE REMOVED IN THE FIELD. THE CONTRACTOR MAY REVIEW EXISTING ELECTRICAL, MECHANICAL, AND ARCHITECTURAL PLANS, THAT ARE AVAILABLE AFTER PRICING IS AWARDED.
 - DURING DEMOLITION OR WHEN ELECTRICAL SYSTEMS ARE BEING MODIFIED, COVER AND SEAL AND PROTECT EXISTING EQUIPMENT NOT BEING REMOVED FROM DAMAGE. THIS APPLIES TO ALL NEW EQUIPMENT AND SYSTEMS WHICH WILL CONTINUE TO BE OPERATED AT COMPLETION OF THE WORK.
 - COORDINATE DEMOLITION FOR EXISTING ELECTRICAL EQUIPMENT BEING REMOVED. ALL ELECTRICAL EQUIPMENT DOWNSTREAM, WHICH REMAINS, AND OUT OF THE DEMOLITION AREA, SHALL REMAIN "ON" AT ALL TIMES. MAINTAIN THE EXISTING CIRCUIT CONTINUITY FOR ALL REMAINING ELECTRICAL DEVICES. COORDINATE GENERAL DEMOLITION WITH THE OWNER TO AVOID PROBLEMS WITH GROUT BEING DISCONNECTED AND REMOVED WHICH MAY AFFECT OTHER AREAS OUTSIDE OF THE WORK AREA. COORDINATE IN FIELD.
 - SURVEY SPACES ABOVE CEILING FOR DEFICIENT EXISTING ELECTRICAL EQUIPMENT. THIS REMEAL ABOVE CEILING WORK MAY INCLUDE PROVIDING ADEQUATE CONDUIT SUPPORTS, REPLACING CODE DEFICIENT FLEXIBLE ELECTRICAL POWER CABLE, PROVIDING MISSING JUNCTION BOX COVERS, REPAIRING BROKEN OR SEPARATED CONDUIT, AND PROVIDING EXTENSION RINGS FOR OVER-CROWDED JUNCTION BOXES. ALL THIS WORK SHALL BE INCLUDED IN THE PRICE.
 - RESOLVE DEFICIENT SPECIAL SYSTEMS CABLE RELATED WORK IN EXPOSED CEILING AREAS. THIS MAY INCLUDE ITEMS SUCH AS SUPPORT OF EXISTING CABLE AND REPLACEMENT OF CABLE WITH NEW PLUMBING RATED AND CODE COMPLIANT CABLE. ALL THIS WORK SHALL BE INCLUDED IN THE PRICE.
 - PROVIDE DISCONNECTION AND RECONNECTION OF BRANCH CIRCUITS AND REPLACEMENT OF ELECTRICAL MATERIALS AND LABOR TO RESTORE COMPLETE AND OPERATIONAL SYSTEMS. THIS INCLUDES THE CORRECTION OF ANY CODE DEFICIENCIES RELATED TO RENOVATIONS ON THIS PROJECT. ALL THIS WORK SHALL BE INCLUDED IN THE BID PRICE.
 - WHEN THE EXTENT OF REMOVAL IS UNCLEAR, REQUEST CLARIFICATION FROM ENGINEER PRIOR TO COMMENCING WORK.
 - ADDITIONAL DEMOLITION MAY BE REQUIRED TO COMPLETE THE PROJECT WORK, BUT NOT INDICATED, SHALL BE INCLUDED IN THE CONTRACT SUM.

LIGHTING GENERAL NOTES:

- COORDINATE THE EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES WITH THE ARCHITECTUR, REFLECTED CEILING PLAN AND ALL OTHER TRADES WORK. NOTIFY ARCHITECT AND ENGINEER IMMEDIATELY FOR CONFLICTS OF LOCATIONS.
- EMERGENCY LIGHT FIXTURES SHALL BE MOUNTED MAXIMUM 10'-0" AFF.

GENERAL NOTES:

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROVIDING ALL WORK INDICATED BY THESE DRAWINGS. THIS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, SUPPLIES AND MATERIALS IN ADDITION TO PERFORMING ALL OPERATIONS INCLUDING CUTTING, CHANNELING AND UNDERGROUND TRENCHING NECESSARY FOR THE INSTALLATION OF COMPLETE POWER, LIGHTING , OR OTHER SYSTEMS AS SHOWN.
- PERFORM ALL ELECTRICAL WORK IN A NEAT AND WORKMANLIKE MANNER IN FULL COMPLIANCE WITH ALL APPLICABLE CODES AND THE NATIONAL ELECTRICAL CODE (NEC). ALL LOCAL AND STATE REQUIREMENTS WILL BE OBSERVED DURING THE PERFORMANCE OF THIS WORK.
- SHOULD THE CONTRACTOR DETECT ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND LEGAL OR SAFETY REQUIREMENTS FOR THE PROJECT, HE SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING. ONCE NOTIFIED THE ENGINEER SHALL MODIFY THE CONTRACT DOCUMENTS ACCORDINGLY. IF THE CONTRACTOR PROCEEDS WITH ANY WORK WHICH IS IN VIOLATION OF KNOWN LEGAL OR SAFETY REQUIREMENTS, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THIS WORK AND SHALL PROMPTLY CORRECT THE WORK WHEN NOTIFIED WITHOUT ADDITIONAL COST TO THE OWNER.
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH DEMOLITION. NO CLAIM FOR ADDITIONAL COST OF TIME EXTENSION WILL BE ALLOWED WITHOUT PROPER NOTICE PLUS PRIOR DETERMINATION OF TIME AND COST TO THE OWNER.
- ANY DAMAGE ON THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR OR A PARTY TO THE CONTRACTOR SHALL BE REPAIRED PRIOR TO CONTRACT DATE OF SUBSTANTIAL COMPLETION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- EXTEND ALL CONDUIT AND CONDUCTORS, INSTALL ELECTRICAL EQUIPMENT AS NECESSARY, AND MAKE ALL FINAL CONNECTIONS TO MECHANICAL AND OWNER FURNISHED EQUIPMENT. LEAVE ALL EQUIPMENT IN OPERABLE CONDITION WITH APPROPRIATE OVERLOAD AND SERVICE DISCONNECT PROTECTION AS REQUIRED BY THE APPLICABLE CODES. FOLLOW MANUFACTURER INSTALLATION GUIDELINES WHERE APPLICABLE.
- ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 VOLTS WITH TYPE THHN/THWN, 90 DEGREE INSULATION UNLESS OTHERWISE INDICATED. CONDUCTORS SHALL BE SOLID FOR #12 AWG AND STRANDED FOR #10 AWG OR LARGER. ALL WIRING SHALL BE RUN IN CONDUIT.
- GENERALLY, CONDUIT SHALL BE EMT, 3/4 INCH MINIMUM, WHERE REQUIRED TO PROTECT FROM PHYSICAL DAMAGE, CONDUIT SHALL BE RIGID OR IMC TYPE. RUN CONDUIT CONCEALED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. USE FLEXIBLE METALLIC CONDUIT OR SURFACE MOUNTED RACEWAY ONLY WHERE INDICATED. PROVIDE EXPANSION FITTINGS FOR CONDUIT CROSSING EXPANSION JOINTS.
- SUPPORT ALL CONDUIT INDEPENDENTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT FROM VENTILATION DUCTS, MECHANICAL PIPING, SUSPENDED CEILING GRIDS, OR THEIR HANGERS. USE ACCEPTABLE METHODS OF SUPPORT.
- PROVIDE WIRING DEVICES RATED FOR THE GIVEN APPLICATION AS REQUIRED BY CODE. SPECIAL DEVICES SHALL BE PROVIDED AS INDICATED.
- MAKE MAIN FEEDER CONNECTIONS WITH SOLDERLESS, BOLTED TYPE CONNECTORS AND MAKE SMALLER WIRE SPLICES WITH PRESSURE TIGHT CONNECTORS.
- INSTALL EXTERIOR WIRING AND DEVICES IN CONDUIT WITH WEATHERPROOF FITTINGS AND IN WEATHERPROOF BOXES. EQUIPMENT SHALL BE RATED FOR EXTERIOR USE.
- SIZE ALL BOXES AND ENCLOSURES PER THE NEC. PROVIDE WORKING SPACE FOR ELECTRICAL INSTALLATIONS IN ACCORDANCE WITH NEC, ARTICLE 310.
- MAINTAIN A MINIMUM OF 24 INCH SEPARATION BETWEEN POWER CONDUITS AND SIGNAL CONDUITS AS PRACTICAL. ROUTE CONDUITS TO NOT CROSS EACH OTHER.
- AFTER COMPLETION OF THE INSTALLATION, THE ENTIRE SYSTEM SHALL BE THOROUGHLY CLEANED. REMOVE ALL FOREIGN MATTER, PAINT, OIL, DIRT, GREASE, UNNEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.
- NEW WORK DEVICES SHALL BE FLUSH IN WALLS CONDUIT/WIRING SHALL BE CONCEALED. ROUTING OF FEEDERS AND MATERIALS USED FOR DEVICES IN WALLS SHALL BE APPROVED BY ARCHITECT AND ENGINEER PRIOR TO ROUGH IN. REPAIR AND GROUT AROUND NEW J-BOXES AND FINISH AS NECESSARY TO MATCH FINISH. COORDINATE WITH ARCHITECT IN FIELD PRIOR TO ROUGH-IN TO AVOID CONFLICTS.
- COORDINATE FINAL LOCATION OF ALL CONDUIT/FEEDERS, PANELS, AND CONTROL PANELS WITH ENGINEER, OWNER, ARCHITECT, AND ALL TRADES PRIOR TO BEGINNING ANY ROUGH-IN WORK. PROVIDE WORKING CLEARANCES PER NEC. COORDINATE ROUTING OF FEEDERS WITHIN WALL CAVITIES OR CHASES. VERIFY CONDUIT ROUTING PRIOR TO ROUGH-IN.



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LUISA SENIOR CENTER VILLA CONSUELO PASA/TERPO
2581 LUGER STREET SUITE 2075 2581 LUGER STREET SUITE 2075
SANTA FE, N.M. 87505 SANTA FE, N.M. 87505

ELECTRICAL LEGEND AND GENERAL NOTES

Project number 1210
Date 15 JULY 2015
Drawn by
Checked by KMT,BGS

L-E0.0

LIGHT FIXTURE SCHEDULE

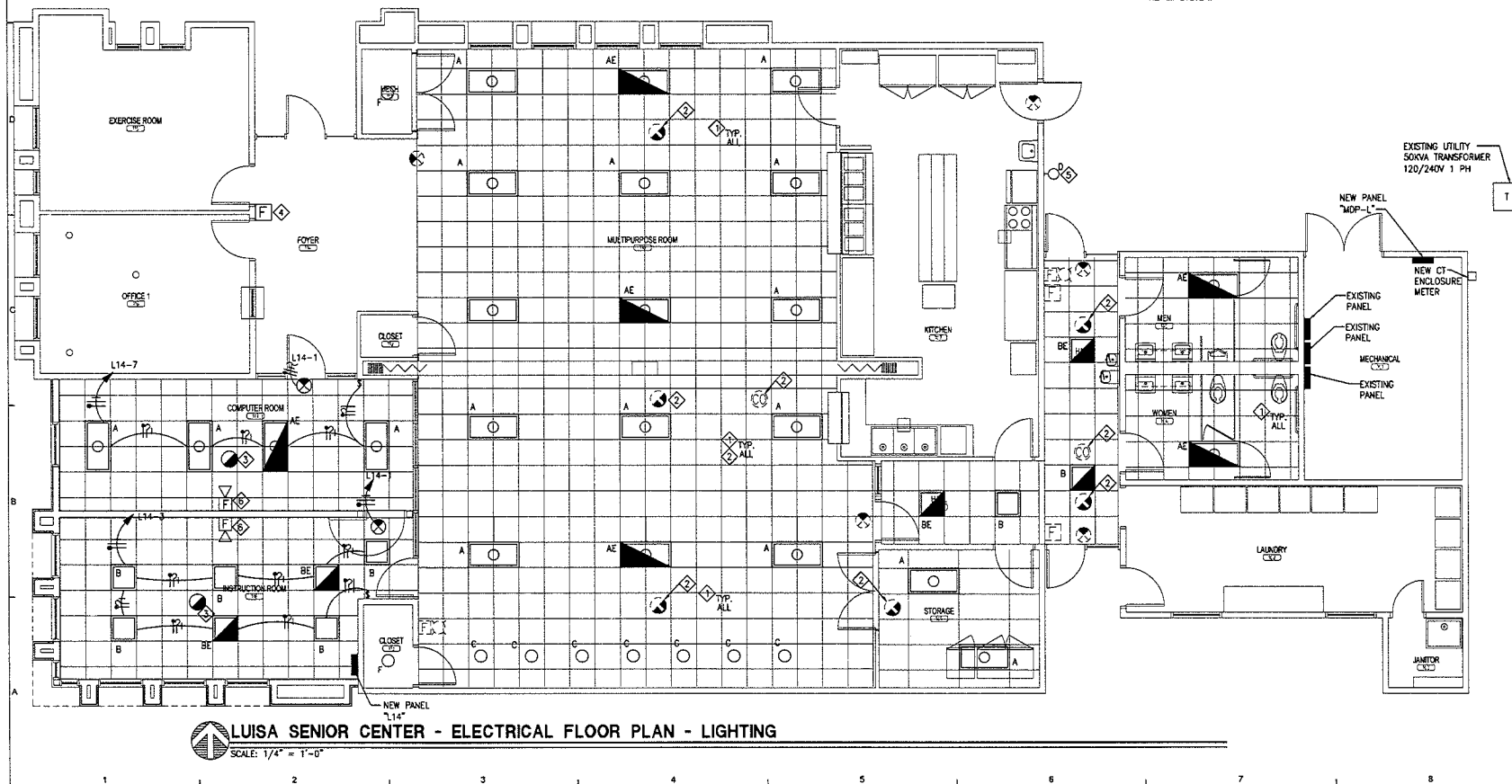
KEY	DESCRIPTION	MANUFACTURER	CATALOG #	LAMPS/TYPE	VOLTY	WATTS/ FIXTURE	MOUNTING	COMMENTS
A	2x4 LED TROFFER	COOPER LIGHTING/METALUX	24SR-LD1-48-S-UNV-L835-CD1-U	LED	UNV	49	RECESSED	
AE	2x4 LED TROFFER WITH BATTERY BACKUP	COOPER LIGHTING/METALUX	24SR-LD1-48-S-UNV-EL14-L835-CD1-U	LED	UNV	49	RECESSED	
B	2x2 LED	COOPER LIGHTING/METALUX	22SR-LD1-29-C-UNV-L835-CD1-U	LED	UNV	30	RECESSED	
BE	2x2 LED WITH BATTERY BACKUP	COOPER LIGHTING/METALUX	22SR-LD1-29-C-UNV-EL14-L835-CD1-U	LED	UNV	30	RECESSED	
C	5" ADJUSTABLE WALLWASHER	COOPER LIGHTING/HALO	H550CAT-RAS606930WH	LED	UNV	10	RECESSED	
D	WALL PACK WITH PHOTO CELL	COOPER LIGHTING/EDISON	ISS-B01-EL-LED-BK-BBB	LED	UNV	26	WALL	
F	UTILITY ROOM FIXTURE	LEVITON	9860-BL	CFL	UNV	13	SURFACE	

GENERAL NOTES:

A. ALL LIGHTING FIXTURES ARE DIRECT REPLACEMENT ONLY. NO CHANGES TO SWITCHING OR CONTROLS REQUIRED. INSTALL FIXTURES WITH NEW CEILING GRID. COORDINATE INSTALLATION WITH ARCHITECTURAL SHEETS.

KEYED NOTES:

1. INSTALL NEW LIGHTING FIXTURE IN SAME LOCATION AS EXISTING FOR ONE TO ONE SWAP. CONNECT NEW FIXTURE TO EXISTING FEEDERS AND SWITCHING. PRIOR TO INSTALL FIELD VERIFY FIXTURE LOCATIONS.
2. REINSTALL ALL EXISTING FIRE PROTECTION AND SMOKE ALARM DEVICES ON NEW CEILING GRID.
3. INSTALL NEW SMOKE DETECTORS AND CONNECT TO EXISTING SYSTEM.
4. REINSTALL EXISTING PULL STATION REMOVED DURING DEMOLITION AT LOCATION SHOWN.
5. INSTALL NEW EXTERIOR FIXTURE IN NEW LOCATION FIELD COORDINATE HEIGHT UNDER PORTAL. PERMANENTLY CAP EXISTING FIXTURE LOCATION. FIXTURE TO BE CONTROLLED BY ROOF MOUNTED PHOTOCELL. COORDINATE PHOTOCELL ORIENTATION WITH MANUFACTURERS RECOMMENDATIONS.
6. INSTALL NEW FIRE ALARM DEVICES, INTERCONNECT DEVICES TO EXISTING FIRE ALARM SYSTEM.



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PROJECT #14031

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 CONSULTING ENGINEERS ARCHITECTS

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LUISA SENIOR CENTER
 VILLA CONQUELO
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 SANTA FE, NM 87505

PIQUETAMP
 SENIOR CENTER
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ELECTRICAL FLOOR PLAN LIGHTING

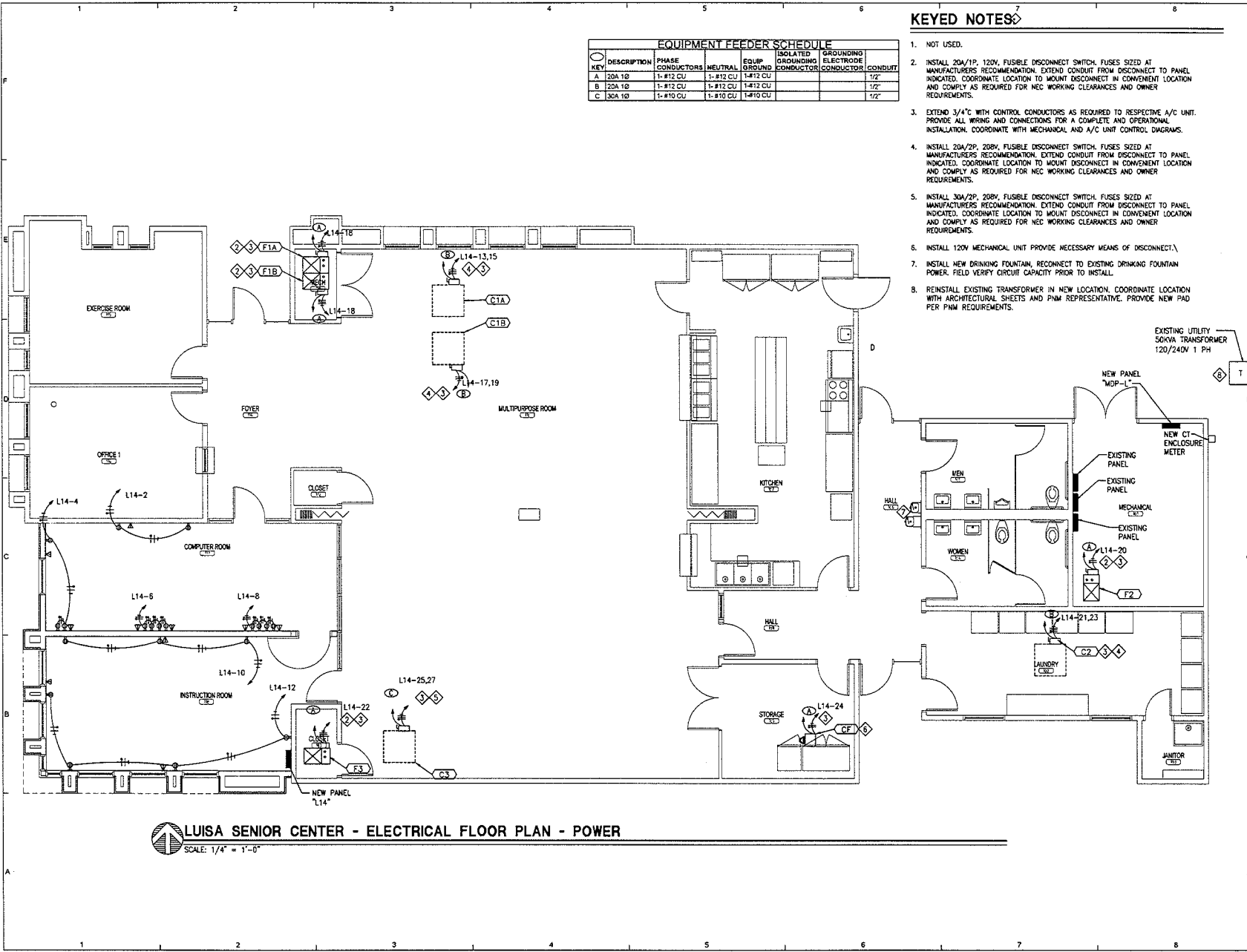
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EQUIPMENT FEEDER SCHEDULE						
KEY	DESCRIPTION	PHASE CONDUCTORS	NEUTRAL	EQUIP GROUND	ISOLATED GROUNDING CONDUCTOR	GROUNDING ELECTRODE CONDUCTOR
A	20A 1Ø	1-#12 CU	1-#12 CU	1-#12 CU		1/2"
B	20A 1Ø	1-#12 CU	1-#12 CU	1-#12 CU		1/2"
C	30A 1Ø	1-#10 CU	1-#10 CU	1-#10 CU		1/2"

KEYED NOTES

- NOT USED.
- INSTALL 20A/1P, 120V, FUSIBLE DISCONNECT SWITCH, FUSES SIZED AT MANUFACTURERS RECOMMENDATION. EXTEND CONDUIT FROM DISCONNECT TO PANEL INDICATED. COORDINATE LOCATION TO MOUNT DISCONNECT IN CONVENIENT LOCATION AND COMPLY AS REQUIRED FOR NEC WORKING CLEARANCES AND OWNER REQUIREMENTS.
- EXTEND 3/4" C WITH CONTROL CONDUCTORS AS REQUIRED TO RESPECTIVE A/C UNIT. PROVIDE ALL WIRING AND CONNECTIONS FOR A COMPLETE AND OPERATIONAL INSTALLATION. COORDINATE WITH MECHANICAL AND A/C UNIT CONTROL DIAGRAMS.
- INSTALL 20A/2P, 208V, FUSIBLE DISCONNECT SWITCH, FUSES SIZED AT MANUFACTURERS RECOMMENDATION. EXTEND CONDUIT FROM DISCONNECT TO PANEL INDICATED. COORDINATE LOCATION TO MOUNT DISCONNECT IN CONVENIENT LOCATION AND COMPLY AS REQUIRED FOR NEC WORKING CLEARANCES AND OWNER REQUIREMENTS.
- INSTALL 30A/2P, 208V, FUSIBLE DISCONNECT SWITCH, FUSES SIZED AT MANUFACTURERS RECOMMENDATION. EXTEND CONDUIT FROM DISCONNECT TO PANEL INDICATED. COORDINATE LOCATION TO MOUNT DISCONNECT IN CONVENIENT LOCATION AND COMPLY AS REQUIRED FOR NEC WORKING CLEARANCES AND OWNER REQUIREMENTS.
- INSTALL 120V MECHANICAL UNIT PROVIDE NECESSARY MEANS OF DISCONNECT.
- INSTALL NEW DRINKING FOUNTAIN, RECONNECT TO EXISTING DRINKING FOUNTAIN POWER. FIELD VERIFY CIRCUIT CAPACITY PRIOR TO INSTALL.
- REINSTALL EXISTING TRANSFORMER IN NEW LOCATION. COORDINATE LOCATION WITH ARCHITECTURAL SHEETS AND PNM REPRESENTATIVE. PROVIDE NEW PAD PER PNM REQUIREMENTS.



LUISA SENIOR CENTER - ELECTRICAL FLOOR PLAN - POWER
SCALE: 1/4" = 1'-0"

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PROJECT #14031

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Professional Engineering & Construction

12120

PROJECT #14031

LUISA SENIOR CENTER

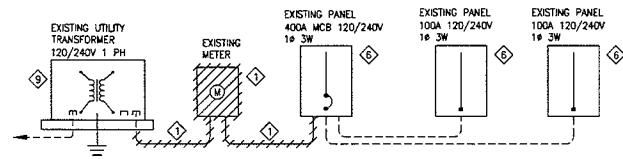
YELLA CONCELO SENIOR CENTER
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PAIGI DAVIS SENIOR CENTER
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Electrical Floor Plan Power

Project number: 1210
Date: 15 JULY 2015
Drawn by: _____
Checked by: KMT, BGS

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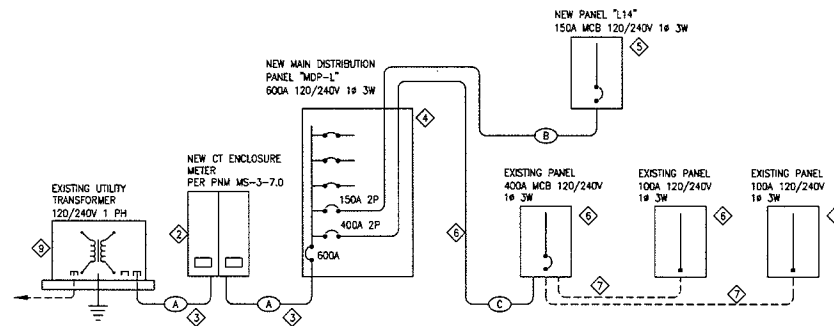


ELECTRICAL DEMOLITION RISER DIAGRAM - LUISA SENIOR CENTER

SCALE: NOT TO SCALE

KEYED NOTES

1. REMOVE EXISTING METER, CONDUIT, AND FEEDERS. COORDINATE WORK WITH PNM.
2. INSTALL NEW CT ENCLOSURE/METER PER PNM REQUIREMENTS, DWG MS-3-7.0. COORDINATE WORK WITH PNM.
3. INSTALL NEW CONDUITS AND FEEDERS PER PNM REQUIREMENTS. COORDINATE WORK WITH PNM.
4. INSTALL NEW 400A MAIN DISTRIBUTION PANEL.
5. INSTALL NEW 150A PANEL.
6. EXISTING PANEL TO REMAIN.
7. EXISTING FEEDERS AND CONDUIT TO REMAIN.
8. EXTEND NEW CONDUIT AND FEEDERS FROM NEW MAIN DISTRIBUTION PANEL TO EXISTING PANEL 400A PANEL.
9. EXISTING UTILITY TRANSFORMER TO BE RELOCATED COORDINATE WORK WITH PNM.



FEEDER SCHEDULE						
KEY	DESCRIPTION	PHASE CONDUCTORS	EQUIP. GROUND	ISOLATED GROUNDING CONDUCTOR	GROUNDING ELECTRODE CONDUCTOR	CONDUIT
A	600A 1P	1(2)-#600 MCM CU	1(2)-1/0 CU			2-2 1/2"
B	150A 1P	2-#1/0 CU	1-#6 CU			2"
C	400A 1P	2-#600 MCM CU	1-#2 CU			3"

LEGEND	
—	NEW CONDUIT NEW FEEDERS
- - - -	EXISTING CONDUIT EXISTING FEEDERS

ELECTRICAL RISER DIAGRAM - LUISA SENIOR CENTER

SCALE: NOT TO SCALE

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ALBUQUERQUE:
MECHANICAL & ELECTRICAL
ENGINEERING, INC.
6977 Montgomery Ave. NE
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505.954-1990

Project #14031



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LUISA SENIOR CENTER 5000 CENTER STREET SANTA FE, NEW MEXICO
 VILLA CONSUELO SENIOR CENTER 10000 CONSUELO STREET SANTA FE, NEW MEXICO
 PALMVIEW SENIOR CENTER 8000 PALMVIEW STREET SANTA FE, NEW MEXICO

LUISA SENIOR CENTER

ELECTRICAL RISER

Project number 1210
 Date 15 JULY 2015
 Drawn by
 Checked by KMT, BGS

L-E6.0

PANEL "MDP-L"												
Load Description	Cat #	Brkr Size	poles	CCT #	Phase A Load	Phase B Load	CCT #	poles	Brkr Size	Cat #	Load Description	
NEW PANEL "L14"	4	200	2	1	38400							
					12636				2	2	400	EASTING PANELS
					35400				4	2	400	
SPACE			1	5	0				6	1		SPACE
SPACE			1	7	0				8	1		SPACE
					0							
Total VA					53462				50836			

Load Category	Connected	Demand %	Demand	Factor Size	SEE REFER
1) Lighting	0	1.25	0		10K43
2) Receptacles	0	0.5	0		10K43
3) Motor	0	1.25	0		435
4) Sub-Panel	104428	1	104428		435
Total	104428		104428		

FED FROM TRANSFORMER
 PER NEC: ALL MULTIWIRE BRANCH CIRCUITS SHALL
 BE PROVIDED WITH MULTIPLE CIRCUIT BREAKERS

PANEL "MDP-L", 120/240V, 1 PHASE, 3 WIRE
 60AMP, NEMA 3R ENCLOSURE, SURFACE MOUNT
 NEMA 3R ENCLOSURE, BOTTOM FEED, DOOR-IN-DOOR
 SQUARE "D" OR EQUAL
 22,000 AAC

SHORT CIRCUIT ANALYSIS - SINGLE PHASE

ASSUME THE BUILDING TRANSFORMER IS **50** KVA WITH UNLIMITED PRIMARY SHORT CIRCUIT
 AMPS AND 1.7 PERCENT IMPEDANCE. THE MAXIMUM LET THROUGH CURRENT AT THE SECONDARY
 TERMINALS OF THE TRANSFORMER IS **19050** AMPS. THE MAXIMUM AVAILABLE FAULT AT THE MAIN
 FUSIBLE DISCONNECT WILL BE APPROXIMATELY **12495** SO AMPS. THE MAXIMUM AVAILABLE FAULT
 AT THE CLOSEST PANELBOARD WILL BE LESS THAN **22,000** AMPS USING TYPE **CU**
 FUSES IN THE MAIN SWITCH. ALL NEW PANELBOARDS SHALL BE RATED A MINIMUM OF **22,000** AMPS

PANEL "L14"												
Load Description	Cat #	Brkr Size	poles	CCT #	Phase A Load	Phase B Load	CCT #	poles	Brkr Size	Cat #	Load Description	
LIGHTS EMERGENCY	1	20	1	1	720							
LIGHTS COOP RM	1	20	1	3		200			2	1	20	RECEPT COOP RM
SPACE						720			4	1	20	RECEPT COOP RM
LIGHTS INST RM	2	20	1	7	720				4	1	20	RECEPT COOP RM
SPARE		20	1	9	0	720			8	1	20	RECEPT COOP RM
SPARE						720			10	1	20	RECEPT INST RM
C1A	2	30	2	13	2820				12	1	20	RECEPT INST RM
						2820			14	1		SPACE
C1B	2	30	2	15	3820				16	1	20	SPACE
					1140				18	1	20	SPACE
C2	2	30	2	17	4820				20	1	20	SPACE
					1520				22	1	20	SPACE
C3	3	50	2	23	6120				24	1	20	SPACE
						4120			26	1	20	SPACE
SPARE		20	1	29					30	1	20	SPACE
Total VA					17356				12692			

Load Category	Connected	Demand %	Demand	Factor Size	SEE REFER
1) Lighting	200	1.25	250		3374
2) Receptacles	10000	0.5	5000		2850
3) Motor	6225	1.25	7781.25		121
4) Sub-Panel	3688	1	3688		
Total	33169		38045.5		

FED FROM MDP-L
 PER NEC: ALL MULTIWIRE BRANCH CIRCUITS SHALL
 BE PROVIDED WITH MULTIPLE CIRCUIT BREAKERS

PANEL "L14", 120/240V, 1 PHASE, 3 WIRE
 100AMP, NEMA 3R ENCLOSURE, SURFACE MOUNT
 NEMA 3R ENCLOSURE, BOTTOM FEED, DOOR-IN-DOOR
 SQUARE "D" 100 LOAD CENTER OR EQUAL
 22,000 AAC

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 PROJECT #14031

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LUSA SENIOR CENTER

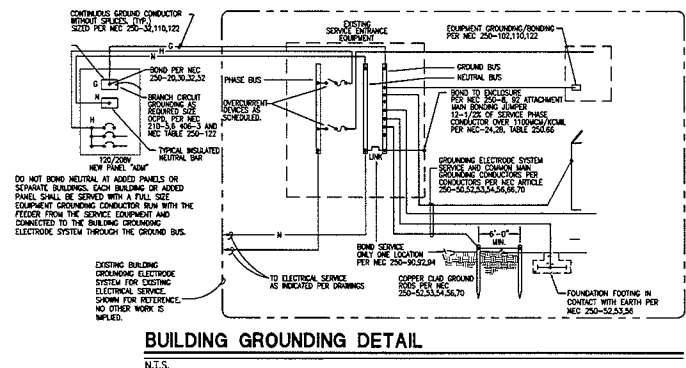
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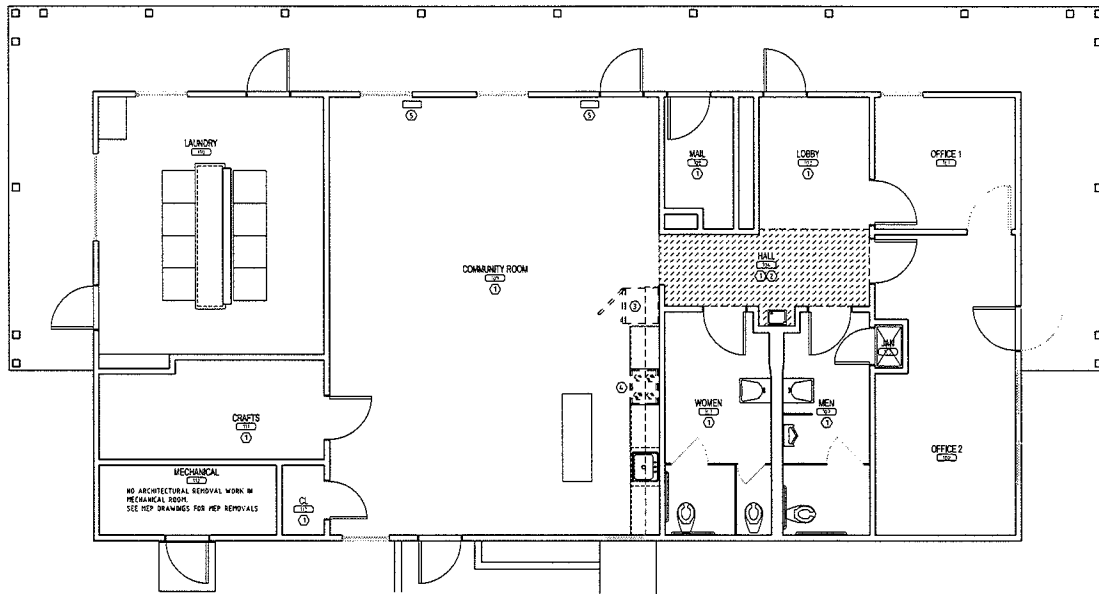
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UNIT #	SERIES	MECHANICAL ELECTRICAL RESPONSIBILITY TABLE						
		DISCONNECT	STARTER/PROTECTION	CONTROL WIRE	TERMINAL CONDUIT			
P	PROVIDED	INSTALLED	PROVIDED	INSTALLED	PROVIDED	INSTALLED	PROVIDED	INSTALLED
	DISC	DISC	DISC	DISC	DISC	DISC	DISC	DISC
C	DISC	DISC	DISC	DISC	DISC	DISC	DISC	DISC
	DISC	DISC	DISC	DISC	DISC	DISC	DISC	DISC
GF	DISC	DISC	DISC	DISC	DISC	DISC	DISC	DISC
	DISC	DISC	DISC	DISC	DISC	DISC	DISC	DISC
U	DISC	DISC	DISC	DISC	DISC	DISC	DISC	DISC
	DISC	DISC	DISC	DISC	DISC	DISC	DISC	DISC

MC Mechanical Contractor
 EC Electrical Contractor
 CC Controls Contractor





PROJECT TRUE
 20x EXISTING CONDITIONS AND REMOVALS PLAN
 DATE

LEGEND - REMOVALS



REMOVE EXISTING GWS SOFFIT AND SOFFIT FRAMING

GENERAL NOTES - REMOVALS

1. THE OWNER RESERVES THE RIGHT TO SALVAGE ANY EXISTING EQUIPMENT OR MATERIALS EVEN IF INDICATED TO BE REMOVED FROM THE PROJECT SITE AT ANY TIME PRIOR TO SELECTIVE DEMOLITION.
2. CONTRACTOR SHALL CAREFULLY RELOCATE AND PROTECT FROM DAMAGE ALL FURNITURE AND EQUIPMENT PRIOR TO BEGINNING WORK AND REINSTALL ON ORIGINAL LOCATION AT THE COMPLETION OF THE WORK.
3. COORDINATE REMOVAL OF EXISTING UTILITIES WITH THE ONGOING USE OF THE FACILITY BY THE OWNER. DO NOT INTERRUPT UTILITIES SERVING SPACES USED BY THE OWNER AT ANY TIME DURING CONSTRUCTION WITHOUT WRITTEN APPROVAL OF THE OWNER.
4. AT ROOFTOP EQUIPMENT REMOVALS PROVIDE TEMPORARY WEATHER PROTECTION DURING THE INTERVAL BETWEEN REMOVAL OF THE EXISTING ROOFTOP EQUIPMENT AND THE INSTALLATION OF NEW EQUIPMENT TO INSURE THAT NO WATER INFILTRATION OR DAMAGE OCCURS TO STRUCTURE OR INTERIOR AREAS OF EXISTING BUILDING.
5. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWING FOR ADDITIONAL REMOVALS.
6. SEE PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
7. PATCH ALL AREAS WHERE EXISTING CONSTRUCTION HAS BEEN REMOVED AND/OR NEW WORK ADJUTS EXISTING MATCH ALL SURFACES AS REQUIRED.
8. DEBRIS SHALL BE CARTED AWAY FROM THE SITE AS A ROUTINE OPERATION AND LEGALLY DISPOSED OF.

INDICATED NOTES - REMOVALS

- ① REMOVE SUSPENDED CEILING TILES, GRID SYSTEMS AND LIGHT FIXTURES. REMOVE, THOROUGHLY CLEAN AND REINSTALL EXISTING HVAC DIFFUSERS, HVAC GRILLES, SMOKE DETECTORS, AND ALL OTHER CEILING MOUNTED DEVICES AFTER CEILING INSTALLATION IS COMPLETE. SEE MEP DRAWINGS AND RELECTED CEILING PLAN FOR ADDITIONAL INFORMATION.
- ② REMOVE EXISTING GWS SOFFIT AND SOFFIT FRAMING
- ③ REMOVE REFRIGERATOR
- ④ REMOVE RANGE AND RANGEHOOD
- ⑤ SEE MECHANICAL DRAWINGS FOR FLOOR DIFFUSER REMOVALS. PATCH FLOOR TO MATCH EXISTING.

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 ARCHITECTURAL PHOTOGRAPHY AND INTERIOR DESIGN CONSULTING

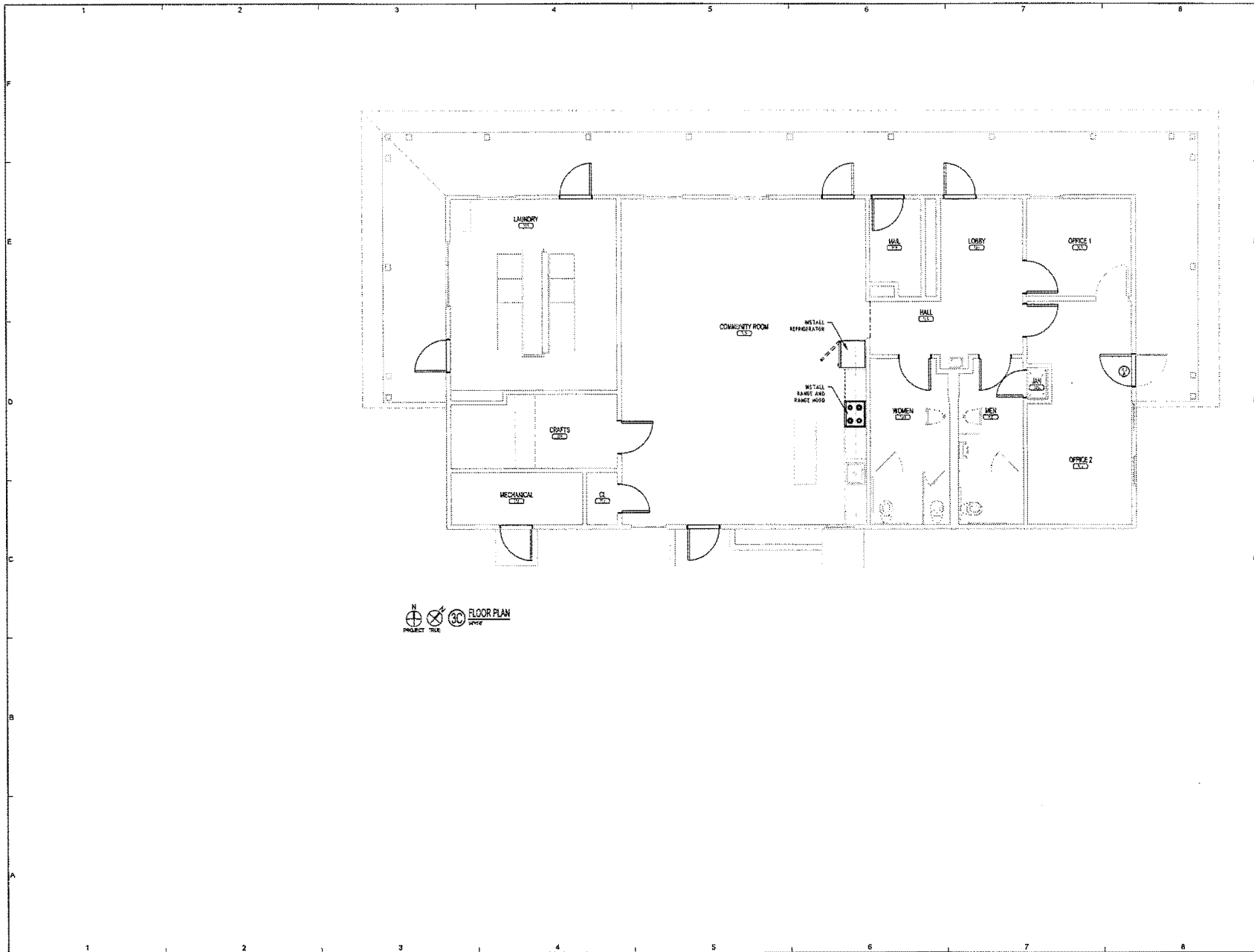
No.	Description	Date

SENIOR CENTER IMPROVEMENTS
 LUISA VILLA CONSUELO
 SENIOR CENTER SOUTH CENTER
 100 LINDA STREET 100 LINDA CONSUELO STREET
 SANTA FE, NM 87505 SANTA FE, NM 87505

**VILLA CONSUELO SENIOR CENTER
 EXISTING CONDITIONS AND
 REMOVALS PLAN**

Project Number: 1310
 Date: 15 JULY 2015

V-A1.0



autotroph
an American company with a global footprint

No.	Description	Date

SENIOR CENTER IMPROVEMENTS











LUSA VILLA CONSUELO
 SENIOR CENTER SENIOR CENTER
 180 LUSA STREET 180 LUSA STREET
 SANTA FE, NM 87505 SANTA FE, NM 87505

VILLA CONSUELO SENIOR CENTER
FLOOR PLAN

Project No: 1310
 Date: 15 JULY 2015

V-A1.1

LEGEND - REFLECTED CEILING PLAN

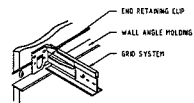
-  LIGHT FIXTURE PER ELECTRICAL INDICATES TYPE "A"
-  LIGHT FIXTURE PER ELECTRICAL INDICATES TYPE "C"
-  EXISTING SMOKE DETECTOR REMOVE, CLEAN AND REINSTALL
-  SMOKE DETECTOR PER ELECTRICAL
-  EXISTING CO DETECTOR REMOVE, CLEAN AND REINSTALL
-  EXISTING CEILING DIFFUSER PER MECHANICAL REMOVE, CLEAN AND REINSTALL
-  CEILING DIFFUSER PER MECHANICAL
-  EXISTING RETURN GRILL PER MECHANICAL REMOVE, CLEAN AND REINSTALL
-  RETURN GRILL DIFFUSER PER MECHANICAL
-  EXISTING CEILING FAN REMOVE, CLEAN AND REINSTALL

GENERAL NOTES - REFLECTED CEILING PLAN

- 1 THOROUGHLY CLEAN ALL HVAC SUPPLIES, GRILLS AND OTHER EXISTING CEILING MOUNTED DEVICES PRIOR TO REINSTALLATION
- 2 INSTALL CEILING GRID COVERED IN ROOM UNLESS NOTED OTHERWISE
- 3 INSTALL CEILING GRID AT SAME HEIGHT AS EXISTING GRID UNLESS NOTED OTHERWISE
- 4 ALL CEILING TILES SHALL BE ACT-1 "FIRE RESISTANT" IN 242 DAD EXCEPT IN ROOM 109 - STORAGE WHICH SHALL BE ACT-1 "CLEAN ROOM VULN 244 GRID"

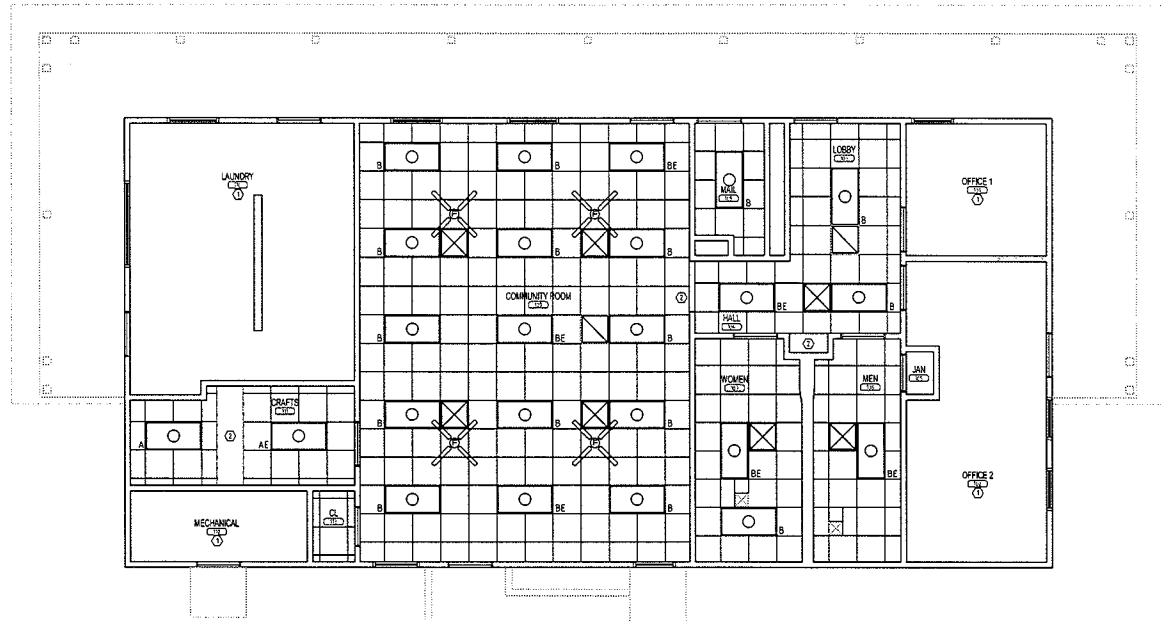
KEYED NOTES - REFLECTED CEILING PLAN

- Ⓚ EXISTING CEILING TO REMAIN - NO WORK
- Ⓛ EXISTING OWN BULKHEAD - PAINTED



SEMPER PERFORMANCE PROVIDE ACOUSTICAL CEILING SYSTEM THAT HAS BEEN EVALUATED BY AN INDEPENDENT PARTY AND FOUND TO BE COMPLIANT WITH THE 2009 INTERNATIONAL BUILDING CODE, SEMPER CATEGORY D.

ⓁB AXO - SUSPENDED CEILING GRID



 PROJECT TRUE  REFLECTED CEILING PLAN
SP172



autotroph
ARCHITECTURE, PLANNING, INTERIORS, DESIGN, CONSTRUCTION

No.	Revisions	Date

SENIOR CENTER IMPROVEMENTS

VILLA CONSUELO
SENIOR CENTER
100 SOUTH STREET
SANTA FE, NEW MEXICO

**VILLA CONSUELO SENIOR CENTER
REFLECTED CEILING PLAN**

Project No: 1310
Date: 15 JULY 2015

V-A1.2

HVAC		MECHANICAL LEGEND		TEXT SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		
[Symbol]	RETURN DUCTWORK UP	[Symbol]	GATE VALVE	[Symbol]	MECHANICAL KEYED NOTES		
[Symbol]	SUPPLY DUCTWORK UP	[Symbol]	CHECK VALVE	[Symbol]	PIPE LEADER LINE FOR SIZES		
[Symbol]	EXHAUST DUCTWORK UP	[Symbol]	PRESSURE REDUCING VALVE	[Symbol]	POINT OF CONNECTION		
[Symbol]	ROUND DUCTWORK UP	[Symbol]	GLOBE VALVE	[Symbol]	POINT OF DISCONNECTION		
[Symbol]	RETURN DUCTWORK DOWN	[Symbol]	THREE WAY VALVE	[Symbol]	EQUIPMENT DESIGNATION		
[Symbol]	SUPPLY DUCTWORK DOWN	[Symbol]	AUTOMATIC TEMPERATURE CONTROL VALVE	[Symbol]	### CPM		
[Symbol]	EXHAUST DUCTWORK DOWN	[Symbol]	BUTTERFLY VALVE	[Symbol]	GRILLE		
[Symbol]	ROUND DUCTWORK DOWN	[Symbol]	TWO WAY CONTROL VALVE	[Symbol]	REVISION DELTA		
[Symbol]	TRANSITION RECTANGULAR TO RECTANGULAR OR TRANSITION ROUND TO ROUND	[Symbol]	THREE WAY CONTROL VALVE	[Symbol]	SECTION NUMBER		
[Symbol]	TRANSITION RECTANGULAR TO ROUND	[Symbol]	DRAIN VALVE	[Symbol]	SHEET NUMBER		
[Symbol]	DUCTWORK ROUTED BELOW OTHER DUCTWORK	[Symbol]	SOLENOID VALVE	[Symbol]	DETAIL DESIGNATION		
[Symbol]	CAFFEED DUCTWORK	[Symbol]	RELIEF VALVE	[Symbol]	BASEBOARD DESIGNATION		
[Symbol]	EXISTING DUCTWORK	[Symbol]	AIR RELIEF VALVE	[Symbol]	RECTANGULAR DUCTWORK SIZING		
[Symbol]	DUCTWORK TO BE REMOVED	[Symbol]	STRAINER	[Symbol]	ROUND DUCTWORK SIZING		
[Symbol]	DUCT WITH INTERNAL LINING	[Symbol]	STEM VALVE	[Symbol]	ARROW INDICATES DIRECTION OF FLOW		
[Symbol]	FIRE SMOKE DAMPER	[Symbol]	CIRCUIT SETTER OR BALANCING VALVE	[Symbol]	UP		
[Symbol]	MOTORIZED BALANCING DAMPER	[Symbol]	BALANCING, GAS COCK OR GAUGE COCK	[Symbol]	DN		
[Symbol]	MANUAL BALANCING DAMPER	[Symbol]	STEAM TRAP	[Symbol]	RETURN AIR FLOW		
[Symbol]	BACKDRAFT DAMPER	[Symbol]	VALVE IN RISER	[Symbol]	SUPPLY AIR FLOW		
[Symbol]	CONICAL TAP	[Symbol]	AUTO FLOW CONTROL VALVE	[Symbol]	EXHAUST AND RETURN AIR FLOW		
[Symbol]	RECTANGULAR TAP	PIPING SYMBOL DESCRIPTION [Symbol] EXISTING PIPING [Symbol] PIPING TO BE REMOVED [Symbol] HOT WATER SUPPLY PIPING [Symbol] HOT WATER RETURN PIPING [Symbol] COLD WATER SUPPLY PIPING [Symbol] COLD WATER RETURN PIPING [Symbol] CHILLED WATER SUPPLY PIPING [Symbol] CHILLED WATER RETURN PIPING [Symbol] COOLING TOWER SUPPLY PIPING [Symbol] COOLING TOWER RETURN PIPING [Symbol] STEAM SUPPLY PIPING [Symbol] STEAM CONDENSATE RETURN PIPING [Symbol] CONDENSATE PIPING [Symbol] EQUIPMENT DRAIN PIPING [Symbol] REVERSE OSMOSIS WATER PIPING [Symbol] VENT PIPING		[Symbol]	THERMOSTAT		
[Symbol]	FLEXIBLE DUCT			[Symbol]	TYPED LENGTH	[Symbol]	SPACE HUMIDISTAT
[Symbol]	SQUARE SUPPLY AIR DIFFUSER	FITTINGS SYMBOL DESCRIPTION [Symbol] UNION [Symbol] TEE [Symbol] ELBOW [Symbol] ELBOW UP [Symbol] ELBOW DOWN [Symbol] TEE UP [Symbol] TEE DOWN [Symbol] BREAK [Symbol] CAP [Symbol] PRESSURE GAUGE [Symbol] THERMOMETER [Symbol] FLOW SWITCH [Symbol] PRESSURE SWITCH		[Symbol]	SPACE HUMIDITY SENSOR		
[Symbol]	ROUND SUPPLY AIR DIFFUSER			[Symbol]	TYPE	[Symbol]	SPACE PRESSURE SENSOR
[Symbol]	RETURN AIR GRILLE	TEXT SYMBOLS [Symbol] DETAIL DESIGNATION [Symbol] BASEBOARD DESIGNATION [Symbol] RECTANGULAR DUCTWORK SIZING [Symbol] ROUND DUCTWORK SIZING [Symbol] ARROW INDICATES DIRECTION OF FLOW [Symbol] UP [Symbol] DN [Symbol] RETURN AIR FLOW [Symbol] SUPPLY AIR FLOW [Symbol] EXHAUST AND RETURN AIR FLOW [Symbol] THERMOSTAT [Symbol] SPACE HUMIDISTAT [Symbol] SPACE HUMIDITY SENSOR [Symbol] SPACE PRESSURE SENSOR [Symbol] CARBON DIOXIDE SENSOR [Symbol] CARBON MONOXIDE SENSOR [Symbol] DUCT MOUNTED SMOKE DETECTOR NOTE: THIS SYMBOLS LEGEND IS A GENERAL REPRESENTATION OF DEVICES USED. SOME PROJECTS MAY NOT UTILIZE ALL SYMBOLS REPRESENTED. COORDINATE ALL SYMBOLS FROM PLANS.		[Symbol]	CARBON DIOXIDE SENSOR		
[Symbol]	CEILING SLOT SUPPLY AIR DIFFUSER			[Symbol]	GRILLE	[Symbol]	DUCT MOUNTED SMOKE DETECTOR
[Symbol]	SIDEWALL RETURN/SUPPLY AIR REGISTER			[Symbol]	REVISION DELTA	[Symbol]	
[Symbol]	FLOOR RETURN/SUPPLY AIR REGISTER			[Symbol]	SECTION NUMBER	[Symbol]	
[Symbol]	ACCESS PANEL			[Symbol]	SHEET NUMBER	[Symbol]	
[Symbol]	HUMIDIFIER			[Symbol]	DETAIL DESIGNATION	[Symbol]	
				[Symbol]	BASEBOARD DESIGNATION	[Symbol]	
				[Symbol]	RECTANGULAR DUCTWORK SIZING	[Symbol]	
				[Symbol]	ROUND DUCTWORK SIZING	[Symbol]	
				[Symbol]	ARROW INDICATES DIRECTION OF FLOW	[Symbol]	
				[Symbol]	UP	[Symbol]	
				[Symbol]	DN	[Symbol]	
				[Symbol]	RETURN AIR FLOW	[Symbol]	
				[Symbol]	SUPPLY AIR FLOW	[Symbol]	
				[Symbol]	EXHAUST AND RETURN AIR FLOW	[Symbol]	
				[Symbol]	THERMOSTAT	[Symbol]	
		[Symbol]	SPACE HUMIDISTAT	[Symbol]			
		[Symbol]	SPACE HUMIDITY SENSOR	[Symbol]			
		[Symbol]	SPACE PRESSURE SENSOR	[Symbol]			
		[Symbol]	CARBON DIOXIDE SENSOR	[Symbol]			
		[Symbol]	CARBON MONOXIDE SENSOR	[Symbol]			
		[Symbol]	DUCT MOUNTED SMOKE DETECTOR	[Symbol]			

GENERAL NOTES:

- MECHANICAL CONTRACTOR SHALL:
- PROVIDE AND INSTALL ALL MATERIAL AND EQUIPMENT AS REQUIRED BY UPC, UMC, NFPA, LIFE SAFETY CODE, GAS CODE, AND ALL OTHER LOCAL CODES AND ORDINANCES THAT APPLY WHETHER SHOWN ON THE DRAWINGS OR NOT. WHERE THERE IS A DISCREPANCY BETWEEN THE CODES OR ORDINANCES AND THE DRAWINGS, THE MORE STRINGENT APPLICATION SHALL APPLY.
 - LAYOUT AND INSTALL COMPLETE AND FUNCTIONAL MECHANICAL SYSTEMS, INCLUDING TEMPORARY CUTOFF OF EXISTING UTILITIES, AND ALL CUTTING, PATCHING, AND REPAIR ASSOCIATED WITH INSTALLING THE SYSTEMS.
 - VIBRATIONALLY ISOLATE FROM THE BUILDING STRUCTURE ALL EQUIPMENT AND PIPING IN THE MECHANICAL ROOM, INCLUDING GAS, AIR INTAKE, EXHAUST, ETC. COORDINATE TO ASSURE THAT AS QUIET AN OPERATING SYSTEM AS POSSIBLE IS INSTALLED.
 - INSTALL FREE AREA OF THE DUCT WORK AS SHOWN ON THE DRAWINGS.
 - PROVIDE ALL DUCT WORK CONNECTIONS AND TRANSITIONS AT GRILLES, DIFFUSERS, REGISTERS, FILTERS, COILS, AND OTHER LOCATIONS WHERE REQUIRED. CONSTRUCT ALL TRANSITIONS AND CONNECTIONS ACCORDING TO SMACNA STANDARDS.
 - PROVIDE A TESTING AND BALANCING (TAB) AGENCY. THE TAB AGENCY SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING SHEAVES, BALANCING DAMPERS, AND ALL EQUIPMENT NECESSARY TO PROVIDE PLUS OR MINUS 10% OF THE GPM AND/OR 10% OF CFM REQUIRED AT EACH TERMINAL UNIT. NO CHANGE ORDERS WILL BE ALLOWED AS A RESULT OF THE CONTRACTOR'S FAILURE TO PROVIDE EQUIPMENT NECESSARY FOR TEST AND BALANCE WHETHER SHOWN ON THE DRAWINGS OR NOT.
 - COORDINATE WORK WITH THE GENERAL CONTRACTOR TO HAVE THE ROOFTOP EQUIPMENT, DUCT WORK, AND INSULATION JACKETS PAINTED TO THE ARCHITECT'S REQUIREMENTS.
 - INSTALL ALL BOILER ROOM PIPING TO BE PLUMB AND LEVEL. INSULATE PIPING IN CRAWL SPACES, TUNNELS, AND IN MECHANICAL ROOM PER SPECIFICATIONS AND/OR MODEL ENERGY CODE.
 - PROVIDE AND INSTALL ALL MECHANICAL EQUIPMENT, TRANSFORMERS, RELAYS, AND OTHER ELEMENTS NECESSARY FOR A COMPLETE OPERATING SYSTEM. COMPLETE ALL 24 VOLT CONTROL WIRING AND EQUIPMENT TO THE ABOVE. ALL LINE VOLTAGE WIRING TO THE ABOVE SHALL BE COMPLETED BY THE ELECTRICAL CONTRACTOR.
 - ALTER DIMENSIONS OF THE DUCT WORK IN THE CEILING SPACE FROM SIZES INDICATED ON THE DRAWINGS ONLY AT SPECIFIC LOCATIONS WHEN NECESSARY TO FIT THE DUCT WORK IN THE SPACE AVAILABLE. REROUTE DUCT WORK IN CEILING SPACE TO AVOID OTHER MECHANICAL EQUIPMENT, LIGHT FIXTURES, ETC. MAINTAIN THE SAME FREE AREA AND SUBMIT PROPOSED CHANGES TO THE ENGINEER FOR APPROVAL. BE RESPONSIBLE FOR VERIFYING SPACE LIMITATIONS BEFORE DUCT WORK FABRICATION AND SHALL MAKE CHANGES ACCORDINGLY. PROVIDE ALL NECESSARY TRANSITIONS.
 - VERIFY EQUIPMENT SPECIFIED IS CORRECT FOR FIELD APPLICATION INCLUDING BUT NOT LIMITED TO SIZES, LOCATIONS, CLEARANCES, STRUCTURAL CONSISTENCY, ETC. BEFORE ORDERING OR INSTALLING AND SHALL MAKE CHANGES, DELETIONS, OR ADDITIONS TO ANY AND ALL APPLICATIONS THAT APPLY BEFORE ORDERING EQUIPMENT. SUBMIT CHANGES, ADDITIONS AND/OR MODIFICATIONS REQUIRED TO ENGINEER FOR APPROVAL. NO CHANGE ORDERS OR PASSAGE OF LIABILITY BY THE CONTRACTOR(S) WILL BE ALLOWED AS A RESULT OF THE CONTRACTOR(S) FAILURE TO VERIFY EQUIPMENT.
 - COORDINATE ALL PROPOSED ROOF PENETRATIONS WITH GENERAL CONTRACTOR AND ARCHITECT AND RELOCATE IF NECESSARY. COORDINATE WITH GENERAL CONTRACTOR/ARCHITECT/OWNER.
 - PROVIDE ONE UNION AT ALL WALLS.
 - INSTALL CONDENSATE AND OVERFLOW PIPING FROM ALL MECHANICAL EQUIPMENT DRAIN POINTS. EXTEND AND TERMINATE PER UMC/UPC. ALL INTERIOR CONDENSATE AND OVERFLOW PIPING SHALL BE INSULATED PER SPECIFICATIONS FOR APPROPRIATE TEMPERATURE RANGE.
 - ALL BUILDING AND MECHANICAL OPENINGS SHALL BE MADE WEATHER TIGHT AT END OF WORK DAY.

MECHANICAL & ELECTRICAL ENGINEERING, INC.
 PROJECT #14031
 P: [] FFP: [] H: [] E: []

DAVID J. BEYER
 ENGINEER
 STATE OF CALIFORNIA
 No. 51200

autotroph

GENERAL DEMOLITION NOTES:

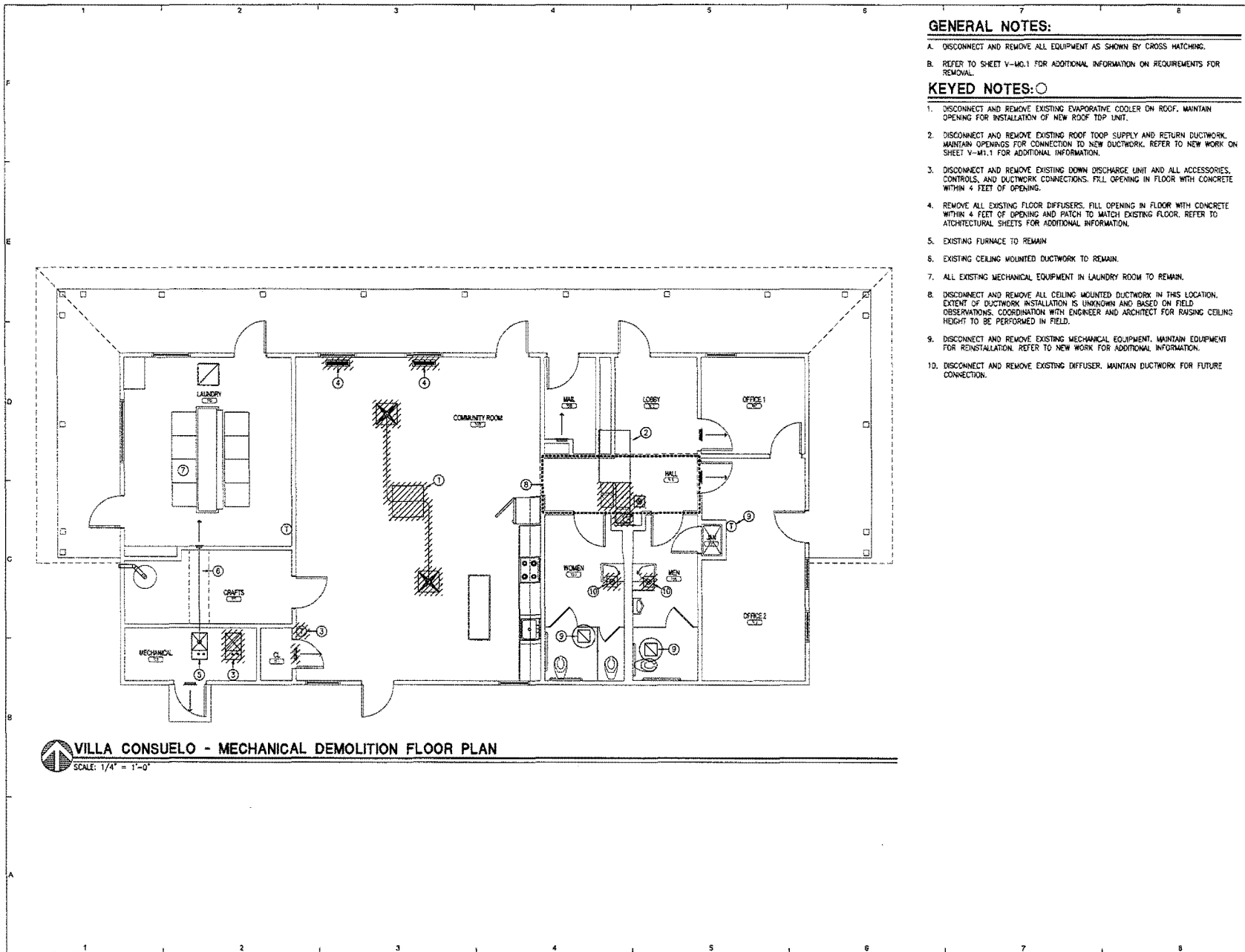
- BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR SUBMITTING A COMPLETE BID WITHIN THE SCOPE OF THE PLANS AND SPECIFICATIONS. WHEN UNCLEAR, VERIFY THE EXTENT OF REMOVALS PRIOR TO BID. PRIOR TO THE CONCLUSION OF THE ADDENDUM PERIOD IN THE BIDDING TIME FRAME, BRING TO THE ATTENTION OF THE ENGINEER ANY QUESTIONS IN REGARD TO THE EXTENT OF WORK OR ANY OTHER ISSUE RELATING TO THIS PROJECT. WITHOUT ANY CLARIFICATION BEYOND THESE AND THE BID DOCUMENTS, THE SUBMITTAL OF A BID WARRANTS THAT THE BIDDER FULLY UNDERSTANDS THE SCOPE.
- REMOVE ALL EXISTING MATERIAL AND EQUIPMENT INDICATED AND SALVAGE TO THE OWNER. THE OWNER SHALL HAVE FIRST RIGHTS TO ALL EQUIPMENT TO BE REMOVED. DISPOSE OF ALL EQUIPMENT AND MATERIAL THAT IS NOT WANTED BY OWNER IN AN APPROVED MANNER PER THE LOCAL DICTATING AUTHORITY.
- WHEN THE EXTENT OF REMOVAL IS UNCLEAR, REQUEST CLARIFICATION FROM ENGINEER PRIOR TO COMMENCING WORK.
- WHEN MECHANICAL SYSTEMS ARE BEING REMODELED, COVER AND SEAL OPENINGS IN DUCTWORK, PIPING, OR MECHANICAL EQUIPMENT TO REMAIN IN OPERATION THROUGH REMAINDER OF PROJECT.
- WHEN NOTES CALL FOR "DISCONNECT AND REMOVE" MECHANICAL EQUIPMENT, COORDINATE WITH ELECTRICAL SUBCONTRACTOR TO REMOVE ALL ASSOCIATED WIRE AND EXPOSED CONDUIT TO SOURCE. COORDINATE WITH ELECTRICAL SUBCONTRACTOR FOR THE RE-USE OF EXISTING CONDUITS AND/OR CONDUCTORS WHERE FEASIBLE PROVIDING THAT THEY ARE IN GOOD CONDITION AND COMPLY WITH CURRENT CODES AND STANDARDS.
- REPAIR ALL DAMAGE TO WALLS, CEILING, ETC. IN A WORKMANLIKE MANNER. SEAL ALL WALL AND CEILING OPENINGS WITH MATCHING MATERIAL.
- THE LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS IS BASED ON SITE OBSERVATIONS AND THE BEST AVAILABLE INFORMATION AT THE TIME OF DRAWING PREPARATION AND SOME DISCREPANCIES MAY EXIST. VERIFY THE EXACT LOCATIONS OF EQUIPMENT TO BE REMOVED IN THE FIELD AND REQUEST CLARIFICATION FROM ENGINEER WHEN EQUIPMENT LOCATION OR EXISTENCE DIFFERS FROM PLANS.

LUSA ISSMAY CENTER FOURTEEN STREET SANTA FE, NEW MEXICO	VILLA CONSUELO SENOR CENTER SOLIMANOS CARRILLO STREET SANTA FE, NEW MEXICO	FISHERS 2304 CENTER BURNING TREE SANTA FE, NEW MEXICO
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VILLA CONSUELO SENIOR CENTER
 MECHANICAL LEGEND AND
 GENERAL NOTES

Project Number	1230
Date	15 JULY 2015
Drawn by	RD
Checked by	KMT,BGS

V-MO.0



GENERAL NOTES:

- A. DISCONNECT AND REMOVE ALL EQUIPMENT AS SHOWN BY CROSS HATCHING.
- B. REFER TO SHEET V-M0.1 FOR ADDITIONAL INFORMATION ON REQUIREMENTS FOR REMOVAL.

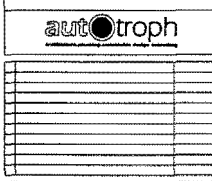
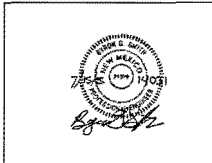
KEYED NOTES:

- 1. DISCONNECT AND REMOVE EXISTING EVAPORATIVE COOLER ON ROOF. MAINTAIN OPENING FOR INSTALLATION OF NEW ROOF TDP UNIT.
- 2. DISCONNECT AND REMOVE EXISTING ROOF TOOP SUPPLY AND RETURN DUCTWORK. MAINTAIN OPENINGS FOR CONNECTION TO NEW DUCTWORK. REFER TO NEW WORK ON SHEET V-M1.1 FOR ADDITIONAL INFORMATION.
- 3. DISCONNECT AND REMOVE EXISTING DOWN DISCHARGE UNIT AND ALL ACCESSORIES, CONTROLS, AND DUCTWORK CONNECTIONS. FILL OPENING IN FLOOR WITH CONCRETE WITHIN 4 FEET OF OPENING.
- 4. REMOVE ALL EXISTING FLOOR DIFFUSERS. FILL OPENING IN FLOOR WITH CONCRETE WITHIN 4 FEET OF OPENING AND PATCH TO MATCH EXISTING FLOOR. REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION.
- 5. EXISTING FURNACE TO REMAIN.
- 6. EXISTING CEILING MOUNTED DUCTWORK TO REMAIN.
- 7. ALL EXISTING MECHANICAL EQUIPMENT IN LAUNDRY ROOM TO REMAIN.
- 8. DISCONNECT AND REMOVE ALL CEILING MOUNTED DUCTWORK IN THIS LOCATION. EXTENT OF DUCTWORK INSTALLATION IS UNKNOWN AND BASED ON FIELD OBSERVATIONS. COORDINATION WITH ENGINEER AND ARCHITECT FOR RAISING CEILING HEIGHT TO BE PERFORMED IN FIELD.
- 9. DISCONNECT AND REMOVE EXISTING MECHANICAL EQUIPMENT. MAINTAIN EQUIPMENT FOR REINSTALLATION. REFER TO NEW WORK FOR ADDITIONAL INFORMATION.
- 10. DISCONNECT AND REMOVE EXISTING DIFFUSER. MAINTAIN DUCTWORK FOR FUTURE CONNECTION.

SAINTA FE: 222 Lake St. Suite 200
Santa Fe, New Mexico 87505
ALBUQUERQUE: 5177 Montano St. NE
Albuquerque, NM 87111
505/264-1000
PROJECT #14031

MECHANICAL & ELECTRICAL ENGINEERING, INC.

FP: H: EI:

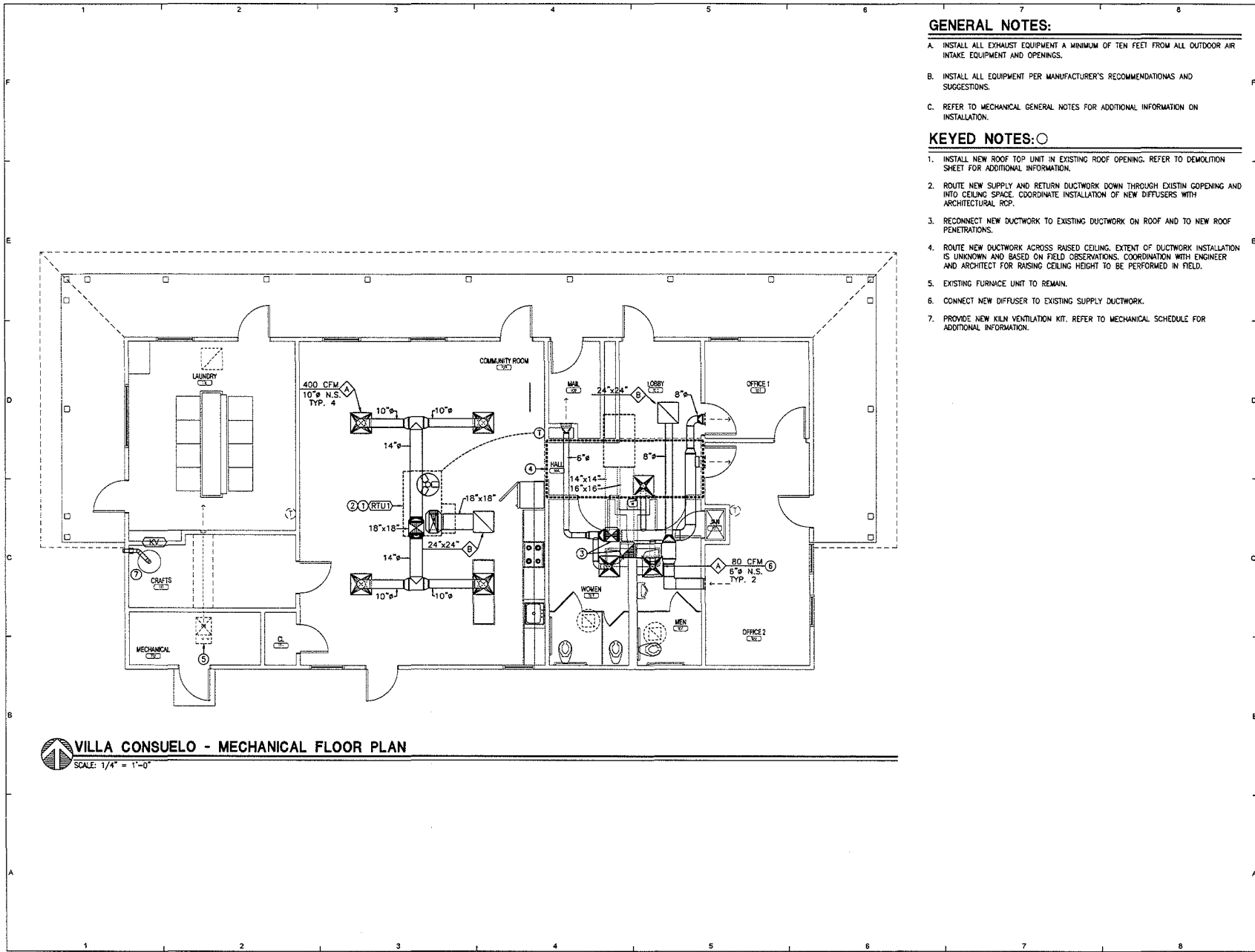


LUISA VILLA CONSUELO PASCATEPO
SENIOR CENTER SENIOR CENTER SENIOR CENTER
500 CHINA STREET 500 CHINA STREET SENIOR CENTER
SANTA FE, NM 87505 SANTA FE, NM 87505 SANTA FE, NM 87505

VILLA CONSUELO SENIOR CENTER
MECHANICAL DEMOLITION
FLOOR PLAN

Project Number: 1210
Date: 15 JULY 2015
Drawing: RD
Checked: HOAT,BOG

V-M1.0



GENERAL NOTES:

- A. INSTALL ALL EXHAUST EQUIPMENT A MINIMUM OF TEN FEET FROM ALL OUTDOOR AIR INTAKE EQUIPMENT AND OPENINGS.
- B. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND SUGGESTIONS.
- C. REFER TO MECHANICAL GENERAL NOTES FOR ADDITIONAL INFORMATION ON INSTALLATION.

KEYED NOTES:

- 1. INSTALL NEW ROOF TOP UNIT IN EXISTING ROOF OPENING. REFER TO DEMOLITION SHEET FOR ADDITIONAL INFORMATION.
- 2. ROUTE NEW SUPPLY AND RETURN DUCTWORK DOWN THROUGH EXISTING OPENING AND INTO CEILING SPACE. COORDINATE INSTALLATION OF NEW DIFFUSERS WITH ARCHITECTURAL RCP.
- 3. RECONNECT NEW DUCTWORK TO EXISTING DUCTWORK ON ROOF AND TO NEW ROOF PENETRATIONS.
- 4. ROUTE NEW DUCTWORK ACROSS RAISED CEILING. EXTENT OF DUCTWORK INSTALLATION IS UNKNOWN AND BASED ON FIELD OBSERVATIONS. COORDINATION WITH ENGINEER AND ARCHITECT FOR RAISING CEILING HEIGHT TO BE PERFORMED IN FIELD.
- 5. EXISTING FURNACE UNIT TO REMAIN.
- 6. CONNECT NEW DIFFUSER TO EXISTING SUPPLY DUCTWORK.
- 7. PROVIDE NEW KILN VENTILATION KIT. REFER TO MECHANICAL SCHEDULE FOR ADDITIONAL INFORMATION.

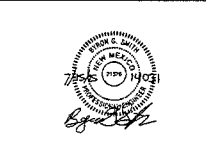
VILLA CONSUELO - MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

SANTA FE, 322 Santa Fe, Suite B
Santa Fe, New Mexico 87505
360.962.2299

ALBUQUERQUE:
MECHANICAL & ELECTRICAL
ENGINEERING, INC.
6417 Washington St., NE
Albuquerque, NM 87110
505.956-1099

PROJECT #14031

P: FP: H: E:

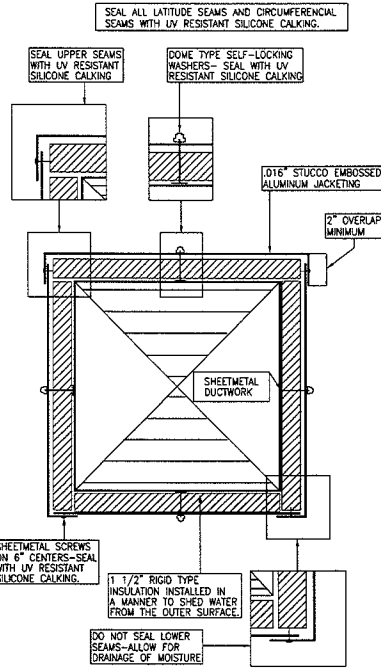


LUSA	VILLA CONSUELO	PLS/STPP
SENIOR CENTER	SENIOR CENTER	SENIOR CENTER
2001 LUSA STREET	2001 LUSA STREET	2001 LUSA STREET
SANFATE, NM 87501	SANFATE, NM 87501	SANFATE, NM 87501

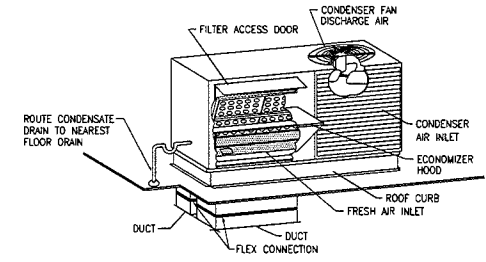
VILLA CONSUELO SENIOR CENTER
MECHANICAL FLOOR PLAN

Project number: 1210
Date: 15 JULY 2015
Drawn by: RD
Checked by: KMT, BGS

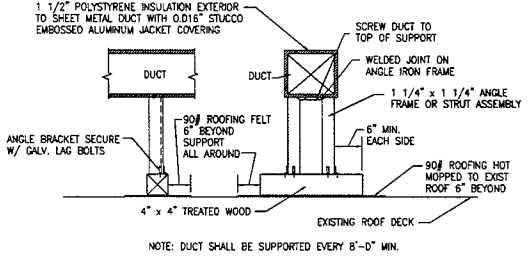
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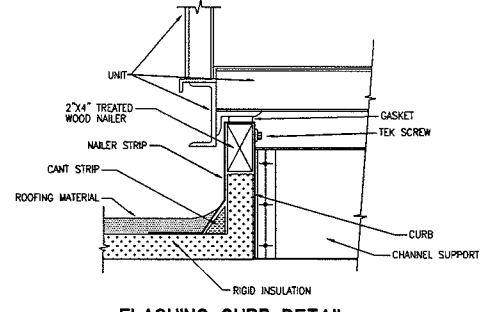
DUCTWORK INSULATION AND METAL JACKETING
NOT TO SCALE



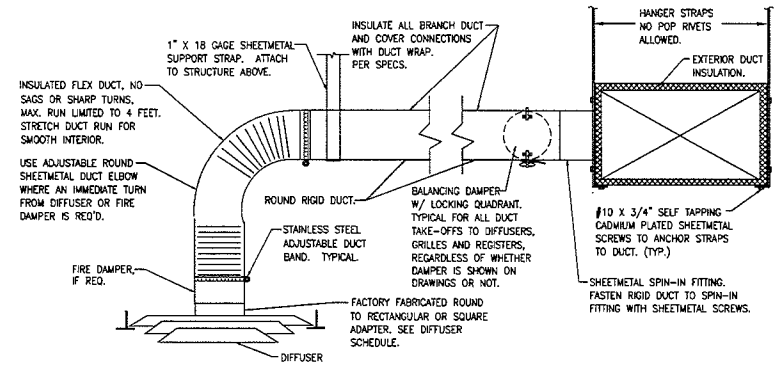
ROOF TOP UNIT DOWN DISCHARGE UNIT
NOT TO SCALE



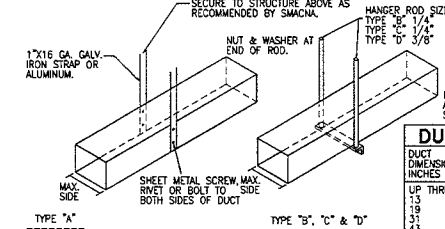
DUCT SUPPORT ON ROOF DETAIL
NOT TO SCALE



FLASHING CURB DETAIL
NOT TO SCALE



RECTANGULAR DUCTWORK DIFFUSER CONNECTION DETAIL
NOT TO SCALE



DUCT HANGERS
NOT TO SCALE

1. FOR SEVERAL DUCTS ON ONE HANGER TYPE "B", "C" OR "D" MAY BE USED. SIZE OF HANGER WILL BE SELECTED ON THE SUM OF DUCT WIDTHS EQUAL TO MAX. WIDTH OF DUCT SCHEDULE.

2. SCHEDULE FOR ANGLES FOR BRACING: TYPE "B" 1-1/2"x1-1/2"x1/8" ANGLE MAX. SPACING 8'-0" CENTERS; TYPE "C" 1-1/2"x1-1/2"x3/16" ANGLE MAX. SPACING 6'-0" CENTERS; TYPE "D" 2"x2"x1/4" MAX. SPACING 4'-0" CENTERS.

DUCT SCHEDULE		TYPE HANGER
DUCT DIMENSIONS INCHES		
UP THRU 12		A
13	18	A
19	30	A/B
31	42	B
43	54	B
55	50	B
61	84	C
85	96	C
OVER	96	C

SANTA FE, 1221 West St., Suite # 200 Santa Fe, New Mexico 87505
ALBUQUERQUE, 9017 Montano Ave., NE Albuquerque, NM 87113
MECHANICAL & ELECTRICAL ENGINEERING, INC. PROJECT #14031
P: | FP: | M: | E:

autotroph
MECHANICAL DETAILS

LUISA SENIOR CENTER VILLA CONSUELO SENIOR CENTER PISATERRA SENIOR CENTER
600 OLIVER STREET 2500 MORGAN CROSSLEY CENTER 600 OLIVER STREET
SANTA FE, NEW MEXICO SANTA FE, NEW MEXICO SANTA FE, NEW MEXICO

VILLA CONSUELO SENIOR CENTER
MECHANICAL DETAILS

Project Number: 1210
Date: 15 JULY 2015
Drawn By: RD
Checked By: KMT, BGS

V-M5.0

MECHANICAL EQUIPMENT SCHEDULE: ◊

RTU1
 PACKAGED ROOF TOP UNIT, PACKAGED AIR CONDITIONING/HEATING UNIT, NATURAL GAS HEATING, ELECTRIC COOLING, STAINLESS STEEL HEAT EXCHANGERS, BELT DRIVEN WITH ADJUSTABLE DRIVE INDOOR FAN AND DIRECT DRIVE OUTDOOR FAN, SPARK IGNITION PILOT, INDOOR FAN TIME-DELAY RELAY, REDUNDANT GAS VALVE, MODULAR BURNER SECTION, ORIFICE FOR 2000 FT. AQL, INDUCED DRAFT EXHAUSTION, COMBUSTION SECTION VIEW PORT, REDUITE SEATING OF PILOT FLAME, HEATING SAFETY CONTROLS (LIMIT SWITCHES, CENTRIFUGAL SWITCH, ROLL OUT SWITCH), STAGGERED COPPER TUBE WITH BONDED ALUMINUM FIN COOLING COILS, R410A REFRIGERANT, LOW AMBIENT TEMP. CONTROLS, FLOTICLE TIMER TO PREVENT SHORT CYCLING, ECONOMIZER PACKAGE WITH FACTORY INSTALLED ECONOMIZER CONTROLS, CONDENSER COIL HAIL GUARD ASSEMBLY, 2 IN. THROW-AWAY FILTERS, FILTER RACK, FLEXIBLE DUCT CONNECTIONS, VIBRATION ISOLATORS FOR MOTOR, FACTORY SUPPLIED 14 IN. ROOF CURB, FAN CONTROL, MOTOR, MOTOR STARTER, STAGED HEATING, AND ALL RELAYS, SWITCHES, TRANSFORMERS, FUSES, UNIT MOUNTED DISCONNECT, AND CONTROL EQUIPMENT REQUIRED FOR COMPLETE AND PROPER OPERATION.
 ELEC.: 208/1PH/60 HZ.

SYM	MODEL NO.	MBH	MIN	CFM	ESP	HTG. MH.		OP.		TOTAL
						CLNG	OUT	GA	FAN	
RTU1	48TCD44	32.3	40.3	185	0.5	1000	875	28		

KV KILN VENT: SUCTION KILN DOWN DRAFT VENTING KIT TO CONNECT TO BOTTOM OF EXISTING KILN. PROVIDE FLEXIBLE DUCT CONNECTION FROM KILN TO FAN, KILN CONNECTOR, FAN CONNECTION TO EXISTING WALL OPENING, 140 CFM EXHAUST RATE, ELECTRICAL CONNECTION, MANUAL SWITCH FOR KILN VENTING OPERATION, SPRING LOADED PLENUM DUCT, WALL MOUNTED FAN ASSEMBLY, 8 FEET FLEXIBLE HOIST TEMP. DUCT, 180 DEG F MAXIMUM FAN TEMPERATURE, AND ALL ACCESSORIES AND CONNECTIONS AS REQUIRED FOR CORRECT AND PROPER INSTALLATION AND OPERATION. "SLUTT" EXHHAUST 2 VENTILATION SYSTEM.
 ELEC.: 120V/1PH/60HZ, 1.4 AMPS.

T THERMOSTAT: ADAPTIVE INTELLIGENT RECOVERY, ENERGY SAVING, MULTIPLE SETBACK, TEMPORARY OVERRIDE, LED DISPLAY, BATTERY BACKUP, TRANSFORMER, COOLING SUBBASE, AUTOMATIC CHANGE OVER FROM WINTER TO SUMMER, AND ALL CONTROLS NECESSARY FOR COMPLETE OPERATION. INCLUDE BATTERIES.
 "HONEYWELL" T8600.

DIFFUSER, REGISTER, AND GRILLE SCHEDULE: ◊

A SUPPLY AIR DIFFUSER: 24 IN. X 24 IN. PANEL SIZE, ALUMINUM MATERIAL, SQUARE CEILING MOUNTED SUPPLY AIR DIFFUSER WITH TRUE 360 DEG. PATTERN. INCLUDE DAMPER IN DUCT. COLOR #26 WHITE. DUCT SIZE AS SHOWN ON DRAWINGS.
 "TITUS" TUSA-AA.

B RETURN AIR GRILLE: FABRICATED ALUMINUM GRILLE WITH 1/2 IN. X 1/2 IN. X 1/2 IN. SQUARES. INCLUDE FRAME FOR CORRECT CEILING INSTALLATION. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR CEILING APPLICATION. COLOR #26 WHITE. SEE AS SHOWN ON DRAWINGS.
 "TITUS" MODEL 50F.

2009 INTERNATIONAL ENERGY CODE COMPLIANCE: Commercial			
Design Standard:	ASHRAE 90.1-2007	ASHRAE 90.1-2007	ASHRAE 90.1-2007
ASHRAE 62.1-2007	ASHRAE 62.1-2007	ASHRAE 62.1-2007	ASHRAE 62.1-2007
Location: Santa Fe, NM		Climate Zone: 1SB	
Design Temperatures		Set Points	
Season	Dry Bulb	Wet Bulb	Median
Summer	88°F db	64°F wb	Heating
Winter	5°F	N/A	Cooling
			Occupied
			Unoccupied
			85°F
			85°F
Section 503: Building Mechanical System (Mandatory & Prescriptive Methods)			
Subsection Number & Title	N/A	Notes:	
503.2.1: Energy Calculations		Performed using Trane Trace	
503.2.2: Equipment and System Sizing		Matched Trane Trace outputs with unit site available.	
503.2.3: HVAC Equipment Performance		RTU1 SEER 12 or greater.	
503.2.4: HVAC System Controls		Single zone programmable thermostats.	
503.2.5: Ventilation		Meet ASHRAE 62.1 as a minimum.	
503.2.6: Energy Recovery Ventilation	NA		
503.2.7: Door Insulation and Sealing	NA	R-8 for all exterior ductwork.	
503.2.8: Pipe Insulation	NA		
503.2.9: HVAC System Commissioning		TAB and GRM reports required.	
503.2.10: Air System Design and Control		All units have minimum 0.5" WC ESP as required.	
503.2.11: Heating Outside a Building	NA		
503.3: Simple HVAC Systems		Single zone programmable thermostats.	
503.4: Complex HVAC Systems	NA		

MECHANICAL / ELECTRICAL RESPONSIBILITY TABLE												
UNIT #	UNIT		DISCONNECT		STARTER/CONTACTOR		CONTROL WIRE		CONTROL CONDUIT		AUTO SHUT-OFF	
	PROVIDED	INSTALLED	PROVIDED	INSTALLED	PROVIDED	INSTALLED	PROVIDED	INSTALLED	PROVIDED	INSTALLED	PROVIDED	INSTALLED
RTU1	MC	MC	MC	EC	MC	MC	CC	CC	EC	EC	NA	NA
T	MC	MC	N/A	N/A	N/A	N/A	CC	CC	EC	EC	N/A	N/A

MC Mechanical Contractor
 EC Electrical Contractor
 CC Controls Contractor

SANTA FE, NM
 1221 West 24th Street, # 2
 Santa Fe, New Mexico 87505
 505.950.2200

ALBUQUERQUE:
 4917 Montano, P.O. Box
 Albuquerque, NM 87110
 505.764-1100

MECHANICAL & ELECTRICAL
 DRAWINGS, INC.
 PROJECT #14031

FP: JK EI

THE MECHANICAL CONTRACTORS ASSOCIATION OF NEW MEXICO
 725 S. 11th Street, Suite 100
 Santa Fe, NM 87505
 505.950.2200

By: [Signature]

autotroph
 Mechanical & Electrical Contractors

LUSA VILLA CONSUELO PIGATEIRO
 SENIOR CENTER SENIOR CENTER SENIOR CENTER
 200 LUNA STREET 200 LUNA STREET 200 LUNA STREET
 SANTA FE, NEW MEXICO SANTA FE, NEW MEXICO SANTA FE, NEW MEXICO

VILLA CONSUELO SENIOR CENTER
 MECHANICAL SCHEDULE

Project number: 1210
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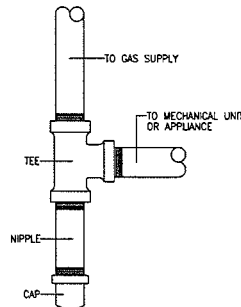
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PLUMBING GENERAL NOTES:

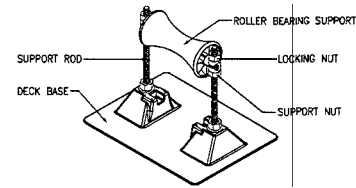
1. COMPLETE ALL WORK IN FULL COMPLIANCE WITH THE U.P.C., U.M.C., I.B.C., LIFE SAFETY CODE, N.F.P.A., ADA, AND ALL LOCAL CODES AND ORDINANCES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE LAYOUT AND INSTALLATION OF THE PLUMBING SYSTEMS INCLUDING ALL COORDINATION WITH NEW AND EXISTING SERVICES, MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, CONDUIT, CEILING, AND ANY OTHER EQUIPMENT THAT MAY REQUIRE COORDINATION EFFORTS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR COORDINATION OF TEMPORARY CUT-OFF OF WATER, SEWER AND NATURAL GAS WITH OWNER AND FOR ALL NECESSARY TRENCHING, BACKFILLING, CUTTING, PATCHING, REPAIRING, ETC., ASSOCIATED WITH THE INSTALLATION OF THE PLUMBING SYSTEM SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE INSTALLATION OF THE FIXTURES WITH THE LOCAL CODE REQUIREMENTS FOR HANDICAP ACCESSIBILITY.
3. NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL ABOVE GRADE AND SHALL BE SCHEDULE 40 BLACK STEEL WRAPPED WITH SCOTCHWRAP OR POLYETHYLENE PIPING WHEN BURIED. PIPING SHALL BE PAINTED WHEN EXPOSED.
4. REFER TO PLUMBING FIXTURE SCHEDULE FOR NATURAL GAS SUPPLY LINE SIZES FOR INDIVIDUAL FIXTURES.
5. ROUTE PIPING AS NEARLY AS POSSIBLE TO THE ROUTING INDICATED ON THE PLANS, BUT MAKE MINOR CHANGES IN ROUTING TO ACCOMMODATE THE CONDITIONS AT THE SITE. DO NOT UNDERTAKE MAJOR REROUTING OF PIPING WITHOUT WRITTEN APPROVAL FROM OWNER OR ENGINEER. BE RESPONSIBLE FOR ALL REQUIRED TRANSITIONS, OFFSETS, MINOR RELOCATIONS, AND ALL ASSOCIATED FITTINGS, PIPING, AND EQUIPMENT TO INSTALL A COMPLETE AND OPERATIONAL SYSTEM.
6. ALL CONTRACTORS BIDDING ON THIS PROJECT ARE CAUTIONED TO VISIT THE SITE AND MAKE ALL NECESSARY INQUIRIES TO DETERMINE THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BIDS. NO SUBSEQUENT ALLOWANCE WILL BE MADE TO COMPENSATE FOR LACK OF PRE-BID INSPECTIONS BY THE SUCCESSFUL CONTRACTOR. ANY LINES ENCOUNTERED WHICH MAY INTERFERE WITH NEW CONSTRUCTION SHALL BE RELOCATED IF ACTIVE AND ABANDONED IF INACTIVE BY THIS CONTRACTOR UNDER THIS CONTRACT BY FIRST CONTACTING THE ARCHITECT FOR A RULING AS TO THEIR REMOVAL, RELOCATION, ETC.
7. INSTALL ISOLATION VALVES AND UNIONS AT ALL BRANCH TAKEOFFS. PROVIDE ACCESS PANELS TO ALL INACCESSIBLE PLUMBING EQUIPMENT TO INCLUDE BUT NOT LIMITED TO VALVES, CONTROL VALVES, ETC.
8. PROVIDE GAS COCKS AND FLEXIBLE CONNECTIONS AT EACH GAS OUTLET FOR APPLIANCES AND WATER HEATER.
9. INSTALL CONDENSATE AND OVERFLOW PIPING FROM ALL MECHANICAL EQUIPMENT DRAIN POINTS. EXTEND AND TERMINATE PER UMC/UPC. ALL CONDENSATE AND OVERFLOW PIPING SHALL BE INSULATED PER SPECIFICATIONS FOR APPROPRIATE TEMPERATURE RANGE.
10. INSULATE ALL COLD AND HOT WATER SUPPLY TUBING AND P-TRAPS AT EACH LAVATORY WITH "TRAP-WRAP" BY BROCAR PRODUCTS INC. INCLUDE ALL FITTINGS FOR A COMPLETE INSTALLATION.

PLUMBING LEGEND	
—○—	CLEANOUT TO GRADE
—□—	DOUBLE CLEANOUT TO GRADE
----	VENT PIPING
○ VTR	VENT THROUGH ROOF
----	COLD WATER PIPING
----	HOT WATER PIPING
----	HOT WATER RECIRCULATING PIPING
-----SS-----	EXISTING SANITARY SEWER PIPING
FD ⊕	FLOOR DRAIN
TP ⊖	TRAP PRIMER
WHA ⊕	WATER HAMMER ARRESTOR
⊙	ROOF DRAIN
⊕	POINT OF CONNECTION
WCO T	WALL CLEANOUT
⊙ FCO	FINISHED FLOOR CLEANOUT

NOTE: THIS SYMBOLS LEGEND IS A GENERAL REPRESENTATION OF ITEMS USED. SOME PROJECTS MAY NOT UTILIZE ALL SYMBOLS REPRESENTED. COORDINATE ALL SYMBOLS FROM PLANS.



GAS SEDIMENT TRAP DETAIL
NOT TO SCALE



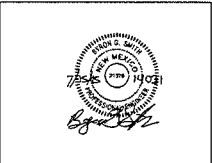
NOTE: PIPING SUPPORTS TO BE INSTALLED EVERY 8'-0"
PIPING SUPPORT DETAIL
NOT TO SCALE

SANTA FE, 1221 West St., Suite B
Santa Fe, New Mexico 87505
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FAX: 505-998-2288

ALBUQUERQUE:
2417 Montebello St., NE
Albuquerque, NM 87112
PHONE: 505-766-1288

PROJECT #14031

P: _____ FP: _____ H: _____ E: _____



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LUSA SENIOR CENTER 100 LUSA STREET SANTA FE, NM 87505	VILLA CONSUELO SENIOR CENTER 200 LINDA CONSUELO STREET SANTA FE, NM 87505	PASADENA SENIOR CENTER 500 WEST STREET SANTA FE, NM 87505
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**VILLA CONSUELO SENIOR CENTER
PLUMBING LEGEND AND
GENERAL NOTES**

Project number	1210
Date	15 JULY 2015
Drawn by	
Checked by	KMT, BGS

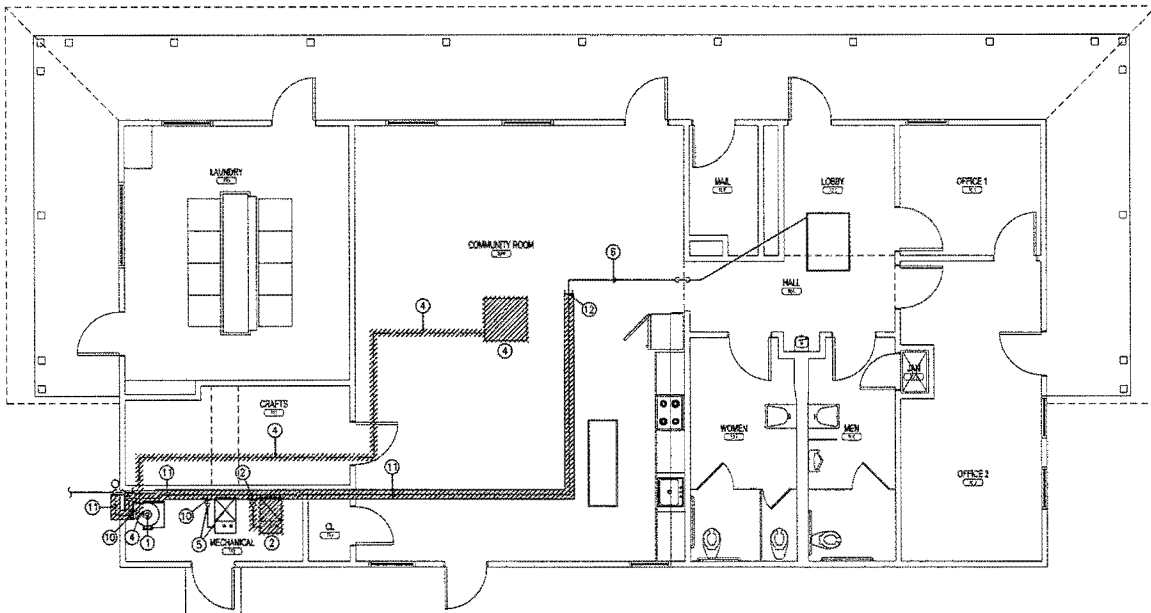
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GENERAL SHEET NOTES:

- A. ALL EXISTING NATURAL GAS SUPPLY PIPING LOCATION, SIZE AND PRESSURE TO BE VERIFIED IN FIELD BEFORE WORK BEGINS.
- B. ALL CONDENSATE DRAIN PIPING SIZE AND LOCATION TO BE VERIFIED IN FIELD BEFORE WORK BEGINS.

KEYED NOTES:○

- 1. EXISTING WATER HEATER TO REMAIN.
- 2. EXISTING FURNACE TO BE REMOVED. CAP EXISTING NATURAL GAS SUPPLY AND ABANDON.
- 3. NOT USED.
- 4. EXISTING EVAPORATIVE COOLER TO BE REMOVED. REMOVE EXISTING COLD WATER SUPPLY AT ROOF AND CAP AT MECHANICAL ROOM CONNECTION AND ABANDON.
- 5. EXISTING FURNACE AND NATURAL GAS PIPING TO REMAIN.
- 6. EXISTING NATURAL GAS SUPPLY PIPING AT ROOF TO REMAIN. VERIFY EXISTING NATURAL GAS SUPPLY PIPING SIZE, LOCATION AND PRESSURE IN FIELD BEFORE WORK BEGINS.
- 7. NOT USED.
- 8. NOT USED.
- 9. NOT USED.
- 10. TEMPORARILY DISCONNECT EXISTING FURNACE AND WATER HEATER NATURAL GAS SUPPLY PIPING IN PREPARATION FOR INSTALLATION OF NEW NATURAL GAS SUPPLY PIPING.
- 11. EXISTING NATURAL GAS SUPPLY PIPING AT MECHANICAL ROOM AND ROOF TO BE REMOVED BACK TO EXISTING REGULATOR AT FINISHED GRADE IN PREPARATION FOR INSTALLATION OF NEW NATURAL GAS SUPPLY PIPING.
- 12. TEMPORARILY CAP EXISTING NATURAL GAS SUPPLY PIPING FOR EXISTING ROOF TOP UNIT AT THIS LOCATION IN PREPARATION FOR CONNECTION TO NEW NATURAL GAS SUPPLY PIPING.



VILLA CONSUELO - PLUMBING DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"

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ALBUQUERQUE
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ENGINEERING, INC.
4117 Washington, N.E.
Albuquerque, NM 87112
505.752.7100

PROJECT # 14031

P: _____ FPP: _____ M: _____ E: _____



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USER: JRS	VILLA CONSUELO	PERMIT#:
DESIGN CENTER: SANTA FE	DESIGN CENTER: SANTA FE	DESIGN CENTER: SANTA FE
PROJECT #:	PROJECT #:	PROJECT #:

**VILLA CONSUELO SENIOR CENTER
PLUMBING DEMOLITION
FLOOR PLAN**

Project number	1210
Date	15-JULY-2015
Drawn by	KMT
Checked by	KMT/BGS

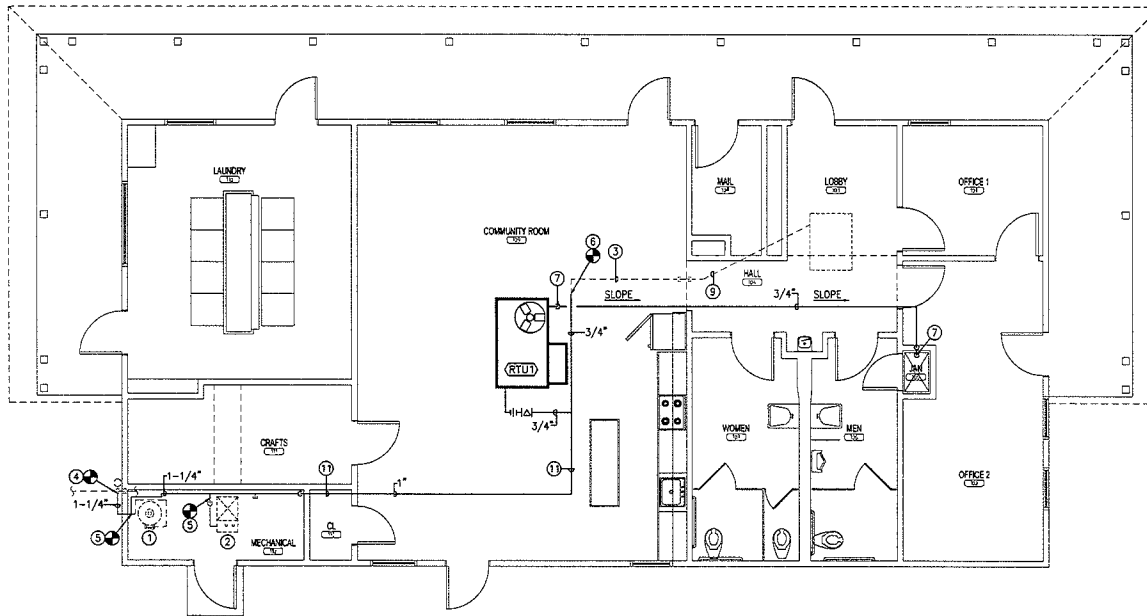
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GENERAL SHEET NOTES:

- A. RESTROOMS TO HAVE NEW TILE INSTALLED AT ALL WALLS AND FLOOR. THIS WORK TO BE COMPLETED IN ALTERNATE NO. 1.

KEYED NOTES: ○

- EXISTING WATER HEATER.
- EXISTING FURNACE.
- EXISTING NATURAL GAS SUPPLY PIPING AT ROOF. VERIFY EXISTING NATURAL GAS SUPPLY PIPING SIZE, LOCATION AND PRESSURE IN FIELD BEFORE WORK BEGINS. INSTALL NEW ROOF TOP PIPING SUPPORTS AT ALL EXISTING NATURAL GAS SUPPLY PIPING ON ROOF. SEE ROOF TOP SUPPORT DETAIL ON SHEET P0.0 FOR ADDITIONAL INFORMATION.
- ROUTE AND CONNECT NEW NATURAL GAS SUPPLY PIPING TO EXISTING NATURAL GAS SUPPLY PIPING DOWN STREAM OF EXISTING REGULATOR.
- ROUTE AND CONNECT NEW NATURAL GAS SUPPLY PIPING TO EXISTING NATURAL GAS SUPPLY FOR EXISTING MECHANICAL UNITS.
- ROUTE AND CONNECT NEW NATURAL GAS SUPPLY PIPING AT ROOF TO EXISTING NATURAL GAS SUPPLY FOR EXISTING ROOF TOP UNIT.
- ROUTE CONDENSATE DRAIN PIPING FOR ROOF TOP UNIT BELOW ROOF STRUCTURE AT THIS LOCATION. ROUTE PIPING TO SINK AT JANITORS CLOSET AS SHOWN. SLOPE DRAIN PIPING AT 1/8 IN. PER FOOT TOWARDS OUTLET.
- INSTALL NEW COVERS ON P-TRAP AND DOMESTIC WATER FOR EXISTING LAVATORIES. SEE PLUMBING GENERAL NOTES ON SHEET P0.0 FOR ADDITIONAL INFORMATION.
- ALL EXISTING ROOF TOP PIPE SUPPORTS TO BE REMOVED IN PREPARATION FOR INSTALLATION OF NEW ROOF TOP PIPE SUPPORTS. SEE PIPING SUPPORT DETAIL ON SHEET P0.0 FOR ADDITIONAL INFORMATION. INSTALL NEW ROOF TOP SUPPORTS EVERY 8'-0" ON NEW AND EXISTING ROOF TOP PIPING.



VILLA CONSUELO - PLUMBING FLOOR PLAN
SCALE: 1/4" = 1'-0"

SANTA FE
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SANTA FE, NEW MEXICO 87505
PH: 505-425-2300

ALHAKMEREKI
MECHANICAL & ELECTRICAL
ENGINEERING, INC.
917 Washington St., SE
Albuquerque, NM 87103
505/263-1999

PROJECT #14031

P: _____ F.P: _____ M: _____ E: _____

Professional Engineer Seal for Santa Fe, New Mexico, License No. 7756, dated 7/19/08. Signature: *By: [Signature]*

autotroph
MECHANICAL, ELECTRICAL, PLUMBING, GAS, AND RADIATION

LUISA VILLA CONSUELO PASATIEMPO
SENIOR CENTER SENIOR CENTER SENIOR CENTER
1500 LINDA STREET 1500 CHENEO CORRIDOR STREET 800 ALTA VISTA STREET
SANTA FE, NM 87505 SANTA FE, NM 87505 SANTA FE, NM 87505

**VILLA CONSUELO SENIOR CENTER
PLUMBING FLOOR PLAN**

Project number	1210
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Drawn by	
Checked by	KMT,BGS

V-P1.1

ELECTRICAL SYMBOLS LEGEND			
LIGHTING		POWER	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	LIGHT (SEE LIGHT FIXTURE SCHEDULE)	[Symbol]	DUPLEX RECEPTACLE, 18" AFF
[Symbol]	EMERGENCY LIGHT	[Symbol]	FOURPLEX RECEPTACLE, 18" AFF
[Symbol]	STRIP LIGHT	[Symbol]	250V RECEPTACLE, 18" AFF
[Symbol]	WALL MOUNTED	[Symbol]	DUPLEX RECEPT., 1/2 SWITCH, 18" AFF
[Symbol]	UNDER CABINET	[Symbol]	GND FLT INTERRUPT RECEPT., 18" AFF
[Symbol]	LIGHTING TRACK	[Symbol]	WEATHER PROOF RECEPTACLE, 18" AFF
[Symbol]	OUTDOOR POLE MOUNTED	[Symbol]	SPECIAL RECEPTACLE
[Symbol]	CEILING SURFACE MOUNTED	[Symbol]	SINGLE SPECIAL
[Symbol]	RECESSED DOWNLIGHT	[Symbol]	DUPLEX SPECIAL
[Symbol]	WALL MOUNTED DOWNLIGHT	[Symbol]	SIMPLEX RECEPTACLE
[Symbol]	EMERGENCY EXIT	[Symbol]	CEILING MOUNTED DUPLEX RECEPTACLE
[Symbol]	EMERGENCY EGRESS, 90" AFF	[Symbol]	FLOOR MOUNTED DUPLEX RECEPTACLE
[Symbol]	CEILING FAN	[Symbol]	CLOCK OUTLET
[Symbol]	SINGLE POLE SWITCH, 42" AFF	[Symbol]	SURFACE MOUNTED PLUG RACEWAY
[Symbol]	THREE WAY SWITCH, 42" AFF	[Symbol]	DISCONNECT SWITCH
[Symbol]	FOUR WAY SWITCH, 40" AFF	[Symbol]	THERMAL OVERLOAD SWITCH
[Symbol]	WEATHER PROOF SWITCH, 42" AFF	[Symbol]	MOTOR OR EXHAUST FAN
[Symbol]	DIMMER SWITCH, 42" AFF	[Symbol]	PULL BOX
[Symbol]	MOTOR SWITCH, 42" AFF	[Symbol]	CEILING MOUNTED JUNCTION BOX
[Symbol]	PUSH BUTTON SWITCH	[Symbol]	WALL MOUNTED JUNCTION BOX
[Symbol]	TIME SWITCH	[Symbol]	DROP CORD
[Symbol]	LIGHTING CONTACTOR	[Symbol]	THERMOSTAT OUTLET BOX
[Symbol]	PHOTO CELL	[Symbol]	ELECTRICAL PANEL, SURFACE MOUNTED
[Symbol]	OCCUPANCY SENSOR	[Symbol]	ELECTRICAL PANEL, RECESSED MOUNTED
[Symbol]	EXISTING DEVICE SHOWN DASHED	[Symbol]	PAD MOUNT TRANSFORMER
		[Symbol]	WALL MOUNT TRANSFORMER
		[Symbol]	ELECTRICAL KEYED NOTE
		[Symbol]	EQUIPMENT SYMBOL
		[Symbol]	CONDUIT LEADER LINE FOR SIZES
		[Symbol]	BRANCH CIRCUIT HOMERUN
		[Symbol]	GROUND
		[Symbol]	GROUND ROD
		[Symbol]	LIGHTNING ARRESTOR

- PANELBOARD GENERAL NOTES:**
- PANELBOARDS SHALL HAVE BOLT-IN BREAKERS, AND DOOR-IN-DOOR CONSTRUCTION. ALL SURFACE MOUNTED PANELS IN ANY FINISHED AREAS SHALL BE PROVIDED WITH SKIRTS FLOOR-TO-CEILING (FIELD VERIFY DIMENSIONS), AND ELSEWHERE AS NOTED ON THE PLANS.
 - PANELBOARDS SHALL HAVE TYPED CIRCUIT DIRECTORIES, PLACED BEHIND CLEAR PLASTIC PROTECTIVE COVER. DESIGNATIONS ON DIRECTORY SHALL BE MORE DESCRIPTIVE THAN AS SHOWN ON THE DRAWING PANEL SCHEDULES. "SPARES" AND "SPACES" SHALL BE INDICATED ON DIRECTORY WITH ERASABLE PENCIL (NOT TYPED).
 - PANELBOARDS SHALL BE PROVIDED WITH NAMEPLATES SECURED TO EQUIPMENT WITH STEEL SCREWS. NAMEPLATES SHALL BE LAMINATED PLASTIC WITH ENGRAVED 3/4" MIN. WHITE LETTERS ON BLACK BACKGROUND AND SHALL INDICATE PANEL DESIGNATION, VOLTAGE, PHASE, AND AMPACITY AND LOCATION OF OVERCURRENT PROTECTIVE DEVICE FEEDING PANEL.
 - PANELBOARDS SHALL BE PROVIDED WITH GROUND BUS/GROUND STRIP MOUNTED ON A CLEAN SURFACE OF THE PANELBOARD CASE. GROUND CONDUCTOR SHALL BE PROVIDED TO THE PANELBOARD GROUND BUS FROM THE GROUND SYSTEM IN THE SERVICE ENTRANCE SECTION OF DISTRIBUTION SECTION.
 - PANELBOARDS SHALL HAVE FACTORY FURNISHED CIRCUIT BREAKER NUMBERING. PUNCHED TAPE OR MARKERS WILL NOT BE PERMITTED. BRANCH CIRCUIT BREAKER NUMBER ON PANELBOARDS SHALL MATCH NUMBERING AS SHOWN ON THE PLANS.
 - BRANCH CIRCUIT CONDUCTORS EXTENDING FROM PANELBOARDS TO RESPECTIVE DEVICES SHALL BE COLOR CODED AND SHALL BE INSTALLED CONTINUOUS IN EACH RUN AND SHALL HAVE A TAG DESIGNATING THE BRANCH CIRCUIT NUMBERS LOCATED AT ALL JUNCTION BOXES. THE COLOR CODE SCHEME SHALL BE AS FOLLOWS:
 - FOR 120/240V: PHASE A - BLACK, PHASE B - RED, NEUTRAL - WHITE, EQUIPMENT GROUND - GREEN
 - PER NEC, ALL BRANCH CIRCUIT PANELBOARDS SHALL BE PROVIDED WITH GFI AND AFCI CIRCUIT BREAKERS FOR APPROPRIATE CIRCUITS. TWO AND THREE POLE CIRCUIT
 - BREAKERS SHALL BE PROVIDED FOR MULTIWIRE BRANCH CIRCUITS.
 - USE "BACK" BREAKERS FOR HEATING/AIR CONDITIONING LOADS AND "SHD" BREAKERS FOR LIGHTING CIRCUITS.
 - PROVIDE PANELS WITH LUGS/CONNECTIONS SIZED FOR FEEDERS SPECIFIED. FEEDERS MUST BE PERMITTED PER NEC FOR IDENTIFYING FACTORS. COORDINATE FEEDER SIZES WITH EQUIPMENT SUPPLIER PRIOR TO ORDERING.

- MECHANICAL GENERAL NOTES:**
- COORDINATE AND PROVIDE ALL POWER NECESSARY FOR MECHANICAL EQUIPMENT AS INDICATED ON THE MECHANICAL AND PLUMBING DRAWINGS.
 - CEILING MOUNTED J-BOXES, DEVICES, AND EQUIPMENT SHOWN FOR SCHEMATIC PURPOSES ONLY. CONTRACTOR SHALL COORDINATE EXACT PLACEMENT OF CEILING MOUNTED EQUIPMENT WITH ALL TRADES WORK IN FIELD WITH CONSIDERATION OF FIELD CONDITIONS TO AVOID CONFLICTS. LOCATION OF ALL DEVICES SHALL BE COORDINATED ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
 - REFER TO THE CONTROL DIAGRAMS AND RESPONSIBILITY TABLES SHOWN ON THE MECHANICAL DRAWINGS FOR EQUIPMENT AND WIRING TO BE FURNISHED AND INSTALLED BY DIVISION 16 CONTRACTOR. ADDITIONAL COMPENSATION FOR CONTROL AND INTERLOCK WIRING, CONTROL COMPONENTS, AND LACK OF COORDINATION BETWEEN MECHANICAL AND ELECTRICAL WILL NOT BE ALLOWED UNDER ANY CIRCUMSTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE AND OPERATIONAL MECHANICAL/ELECTRICAL SYSTEM.
 - REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND ELECTRICAL CHARACTERISTICS. VERIFY EQUIPMENT LOCATIONS WITH MECHANICAL PRIOR TO ROUGH-IN.
 - AT ALL ACCESS DOOR LOCATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT IN HARD CEILING AREAS, PROVIDE A SINGLE POLE SWITCH, DUPLEX RECEPTACLE AND KEYLESS PORCELAIN SOCKET WITH 1-1/4" W/ET. 100 WATT LAMP AND WIRE GUARD PER NEC REQUIREMENTS. COORDINATE WITH MECHANICAL.
 - ALL CONDUIT SHALL BE CONCEALED IN WALLS AND ABOVE CEILINGS. EXPOSED CONDUIT AND CONDUIT INSTALLED ON THE ROOF WILL NOT BE APPROVED UNDER ANY CIRCUMSTANCE.
 - MOUNT DISCONNECT SWITCH IN CONVENIENT LOCATION AT UNIT, PER NEC. COORDINATE LOCATION OF CONTROLS WITH MECHANICAL PRIOR TO CONDUIT ROUGH-IN. PROVIDE DISCONNECT SWITCH WITH EQUIPMENT GROUND BUS AND TERMINATE ALL EQUIPMENT GROUNDING CONDUCTORS AT DISCONNECT SWITCH. EQUIPMENT GROUND BUS (DO NOT USE SCREW OR SINGLE LUG FOR EQUIPMENT GROUND CONNECTION). PROVIDE WEATHER-TIGHT FLEXIBLE CONDUIT CONNECTION FROM DISCONNECT SWITCH TO UNIT (NO EXCEPTIONS). ALL CONDUIT SHALL BE CONCEALED AS MUCH AS POSSIBLE FROM THE DISCONNECT SWITCH TO THE PANEL INDICATED. DISCONNECT SWITCH SHALL BE PROVIDED WITH ENGRAVED IDENTIFYING NAMEPLATE INDICATING PANEL AND BRANCH CIRCUIT CONNECTED TO. COORDINATE MOTOR HORSEPOWER OF UNIT, VOLTAGE AND PHASE FOR SERVICE PROVIDED WITH MECHANICAL TO AVOID CONFLICTS IN THE FIELD.

- DEMOLITION NOTES:**
- THESE NOTES SHALL APPLY TO DEMOLITION AREAS, RENOVATED NEW WORK AREAS AND ENTIRE PROJECT.
- BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR SUBMITTING A COMPLETE PRICE WITHIN THE SCOPE OF THE PLANS AND SPECIFICATIONS. VERIFY THE EXTENT OF DEMOLITION AND REMOVALS PRIOR TO PRICING. INCLUDE ALL WORK REQUIRED TO COMPLETELY DISCONNECT ASSOCIATED EQUIPMENT AND TO COMPLETELY REMOVE ALL ASSOCIATED BRANCH CIRCUIT WIRING, WHERE REQUIRED. WHEN UNCLEAR, ANY QUESTIONS ARISING DURING THE PRICING PERIOD IN REGARD TO THE EXTENT OF WORK OR ANY OTHER ISSUE RELATING TO THIS PROJECT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, NOT AFTER THE PROJECT HAS BEEN AWARDED. PRIOR TO THE COMMENCEMENT OF THE ADDENDUM PERIOD IN THE PRICING TIME FRAME, WITHOUT ANY CLARIFICATION BEYOND THESE AND THE PRICING DOCUMENTS, THE SUBMITTAL OF A PRICING WARRANTS THAT THE BIDDER FULLY UNDERSTANDS THE SCOPE.
 - REMOVE ALL EXISTING MATERIAL AND EQUIPMENT INDICATED AND SALVAGE TO THE OWNER. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ELECTRICAL EQUIPMENT TO BE REMOVED. ALL EQUIPMENT REMOVED, NOT CLAIMED BY THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE PROPERLY DISPOSED OF. ALL EQUIPMENT THAT HAS BEEN REMOVED TO BE DISPOSED OF IN A APPROVED MANNER PER THE LOCAL AUTHORITY HAVING JURISDICTION.
 - DAMAGE TO WALLS, CEILING, FLOOR, ETC. SHALL BE REPAIRED IN A PROFESSIONAL MANNER WITH MATCHING FINISH MATERIAL. SEAL ALL WALL AND CEILING, ROOF, AND FOUNDATION OPENINGS.
 - THE LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS IS BASED ON SITE VISITS AND THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. SOME DISCREPANCIES MAY EXIST. NOT ALL BUILDING DETAILS AND BRANCH CIRCUIT CONDUIT/WIRING TO BE REMOVED ARE NOT ALL BE SHOWN ON THE PLANS. VERIFY THE EXACT LOCATIONS OF EQUIPMENT TO BE REMOVED IN THE FIELD. THE CONTRACTOR MAY REVIEW EXISTING ELECTRICAL, MECHANICAL, AND ARCHITECTURAL PLANS THAT ARE AVAILABLE AFTER PRICING IS AWARDED.
 - DURING DEMOLITION OR WHEN ELECTRICAL SYSTEMS ARE BEING MODIFIED, COVER AND SEAL AND PROTECT EXISTING EQUIPMENT NOT BEING REMOVED FROM DAMAGE. THIS APPLIES TO ALL NEW EQUIPMENT AND SYSTEMS WHICH WILL CONTINUE TO BE OPERATED AT COMPLETION OF THE WORK.
 - COORDINATE DEMOLITION FOR EXISTING ELECTRICAL EQUIPMENT BEING REMOVED. ALL ELECTRICAL EQUIPMENT DOWNSTREAM, WHICH REMAINS AND OUT OF THE DEMOLITION AREA, SHALL REMAIN "ON" AT ALL TIMES. MAINTAIN THE EXISTING CIRCUIT CONTINUITY FOR ALL REMAINING ELECTRICAL DEVICES. COORDINATE GENERAL DEMOLITION WITH THE OWNER TO AVOID PROBLEMS WITH CONDUIT BEING DISCONNECTED AND REMOVED WHICH MAY AFFECT OTHER AREAS OUTSIDE OF THE WORK AREA. COORDINATE IN FIELD.
 - SURVEY SPACES ABOVE CEILING FOR DEFICIENT EXISTING ELECTRICAL EQUIPMENT. THIS REMEDIA ABOVE CEILING WORK MAY INCLUDE PROVIDING ADEQUATE CONDUIT SUPPORTS, REPLACING CODE DEFICIENT FLEXIBLE ELECTRICAL POWER CABLE, PROVIDING MISSING JUNCTION BOX COVERS, REPAIRING BROKEN OR SEPARATED CONDUIT, AND PROVIDING EXPANSION RINGS FOR OVER-CROWDED JUNCTION BOXES. ALL THIS WORK SHALL BE INCLUDED IN THE PRICE.
 - RESOLVE DEFICIENT SPECIAL SYSTEMS CABLE RELATED WORK IN EXPOSED CEILING AREAS. THIS MAY INCLUDE ITEMS SUCH AS SUPPORT OF EXISTING CABLE AND REPLACEMENT OF CABLE WITH NEW PLUMB RATED AND CODE COMPLIANT CABLE. ALL THIS WORK SHALL BE INCLUDED IN THE PRICE.
 - PROVIDE DISCONNECTION AND RECONNECTION OF BRANCH CIRCUITS AND REPLACEMENT OF ELECTRICAL MATERIALS AND LABOR TO RESTORE COMPLETE AND OPERATIONAL SYSTEMS. THIS INCLUDES THE CORRECTION OF ANY CODE DEFICIENCIES RELATED TO RENOVATIONS ON THIS PROJECT. ALL THIS WORK SHALL BE INCLUDED IN THE BID PRICE.
 - WHEN THE EXTENT OF REMOVAL IS UNCLEAR, REQUEST CLARIFICATION FROM ENGINEER PRIOR TO COMMENCING WORK.
 - ADDITIONAL DEMOLITION MAY BE REQUIRED TO COMPLETE THE WORK AS INDICATED ON THE DRAWINGS. DEMOLITION REQUIRED TO COMPLETE THE PROJECT WORK, BUT NOT INDICATED, SHALL BE INCLUDED IN THE CONTRACT SUM.
- LIGHTING GENERAL NOTES:**
- COORDINATE THE EXACT LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN AND ALL OTHER TRADES WORK. NOTIFY ARCHITECT AND ENGINEER IMMEDIATELY FOR CONFLICTS OF LOCATIONS.
 - EMERGENCY LIGHT FIXTURES SHALL BE MOUNTED MAXIMUM 10'-0" AFF.

- GENERAL NOTES:**
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROVIDING ALL WORK INDICATED BY THESE DRAWINGS. THIS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, SUPPLIES AND MATERIALS IN ADDITION TO PERFORMING ALL OPERATIONS INCLUDING CUTTING, CHANNELING AND UNDERGROUND TRENCHING NECESSARY FOR THE INSTALLATION OF COMPLETE POWER, LIGHTING, OR OTHER SYSTEMS AS SHOWN.
 - PERFORM ALL ELECTRICAL WORK IN A NEAT AND WORKMANLIKE MANNER IN FULL COMPLIANCE WITH ALL APPLICABLE CODES AND THE NATIONAL ELECTRICAL CODE (NEC). ALL LOCAL AND STATE REQUIREMENTS WILL BE OBSERVED DURING THE PERFORMANCE OF THIS WORK.
 - SHOULD THE CONTRACTOR DETECT ANY DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND LEGAL OR SAFETY REQUIREMENTS FOR THE PROJECT, HE SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING. ONCE NOTIFIED THE ENGINEER SHALL MODIFY THE CONTRACT DOCUMENTS ACCORDINGLY. IF THE CONTRACTOR PROCEEDS WITH ANY WORK WHICH IS IN VIOLATION OF KNOWN LEGAL OR SAFETY REQUIREMENTS, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THIS WORK AND SHALL PROMPTLY CORRECT THE WORK WHEN NOTIFIED WITHOUT ADDITIONAL COST TO THE OWNER.
 - FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH DEMOLITION. NO CLAIM FOR ADDITIONAL COST OR TIME EXTENSION WILL BE ALLOWED WITHOUT PROPER NOTICE PLUS PRIOR DETERMINATION OF TIME AND COST TO THE OWNER.
 - ANY DAMAGE ON THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR OR A PARTY TO THE CONTRACTOR SHALL BE REPAIRED PRIOR TO CONTRACT DATE OF SUBSTANTIAL COMPLETION AT NO ADDITIONAL EXPENSE TO THE OWNER.
 - EXTEND ALL CONDUIT AND CONDUCTORS. INSTALL ELECTRICAL EQUIPMENT AS NECESSARY, AND MAKE ALL FINAL CONNECTIONS TO MECHANICAL AND OWNER FURNISHED EQUIPMENT. LEAVE ALL EQUIPMENT IN OPERABLE CONDITION WITH APPROPRIATE OVERLOAD AND SERVICE DISCONNECT PROTECTION AS REQUIRED BY THE APPLICABLE CODES. FOLLOW MANUFACTURER INSTALLATION GUIDELINES WHERE APPLICABLE.
 - ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 VOLTS WITH TYPE THHN/THWN, 90 DEGREE INSULATION UNLESS OTHERWISE INDICATED. CONDUIT SHALL BE SOLID FOR #12 AWG AND STRANDED FOR #10 AWG OR LARGER. ALL WIRING SHALL BE RUN IN CONDUIT.
 - GENERALLY, CONDUIT SHALL BE EMT, 3/4 INCH MINIMUM. WHERE REQUIRED TO PROTECT FROM PHYSICAL DAMAGE, CONDUIT SHALL BE RIGID OR IMC TYPE. RUN CONDUIT CONCEALED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. USE FLEXIBLE METALLIC CONDUIT OR SURFACE MOUNTED RACEWAY ONLY WHERE INDICATED. PROVIDE EXPANSION FITTINGS FOR CONDUIT CROSSING EXPANSION JOINTS.
 - SUPPORT ALL CONDUIT INDEPENDENTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT FROM VENTILATION DUCTS, MECHANICAL PIPING, SUSPENDED CEILING GRIDS, OR THEIR HANGERS. USE ACCEPTABLE METHODS OF SUPPORT.
 - PROVIDE WIRING DEVICES RATED FOR THE GIVEN APPLICATION AS REQUIRED BY CODE. SPECIAL DEVICES SHALL BE PROVIDED AS INDICATED.
 - MAKE MAIN FEEDER CONNECTIONS WITH SOLDERLESS, BOLTED TYPE CONNECTORS AND MAKE SMALLER WIRE SPLICES WITH PRESSURE TYPED CONNECTORS.
 - INSTALL EXTERIOR WIRING AND DEVICES IN CONDUIT WITH WEATHERPROOF FITTINGS AND IN WEATHERPROOF BOXES. EQUIPMENT SHALL BE RATED FOR EXTERIOR USE.
 - SIZE ALL BOXES AND ENCLOSURES PER THE NEC. PROVIDE WORKING SPACE FOR ELECTRICAL INSTALLATIONS IN ACCORDANCE WITH NEC, ARTICLE 110.
 - MAINTAIN A MINIMUM OF 24 INCH SEPARATION BETWEEN POWER CONDUITS AND SIGNAL CONDUITS AS PRACTICAL. ROUTE CONDUITS TO NOT CROSS EACH OTHER.
 - AFTER COMPLETION OF THE INSTALLATION, THE ENTIRE SYSTEM SHALL BE THOROUGHLY CLEANED. REMOVE ALL FOREIGN MATTER, PAINT, OIL, DIRT, GREASE, UNNEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.
 - NEW WORK DEVICES SHALL BE FLUSH IN WALLS CONDUIT/WIRING SHALL BE CONCEALED. ROUTING OF FEEDERS AND MATERIALS USED FOR DEVICES IN WALLS SHALL BE APPROVED BY ARCHITECT AND ENGINEER PRIOR TO ROUGH IN. REPAIR AND GROUT AROUND NEW J-BOXES AND FINISH AS NECESSARY TO MATCH FINISH. COORDINATE WITH ARCHITECT IN FIELD PRIOR TO ROUGH-IN TO AVOID CONFLICTS.
 - COORDINATE FINAL LOCATION OF ALL CONDUIT/FEEDERS, PANELS, AND CONTROL PANELS WITH ENGINEER, OWNER, ARCHITECT, AND ALL TRADES PRIOR TO BEGINNING ANY ROUGH-IN WORK. PROVIDE WORKING CLEARANCES PER NEC. COORDINATE ROUTING OF FEEDERS WITHIN WALL CAVITIES OR CHASES. VERIFY CONDUIT ROUTING PRIOR TO ROUGH-IN.

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PROJECT #14031

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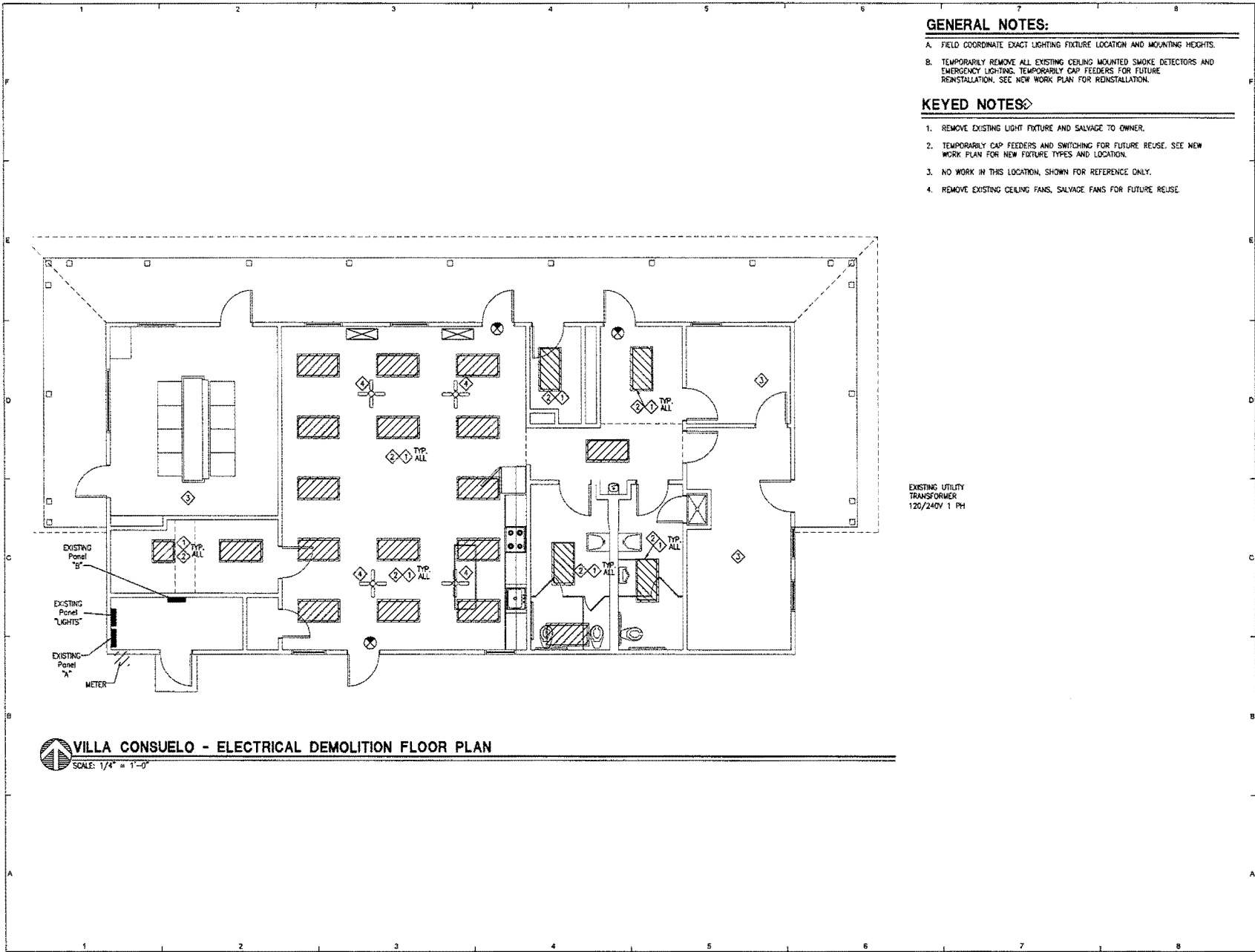
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11/20/2015
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ELECTRICAL ENGINEERING

VILLA CONSELVO SENIOR CENTER
ELECTRICAL
LEGEND AND GENERAL
NOTES

Project Number: 1210
Date: 15 JULY 2015
Drawn by: []
Checked: [] KMT/BGS

V-E-0.0



GENERAL NOTES:

- A. FIELD COORDINATE EXACT LIGHTING FIXTURE LOCATION AND MOUNTING HEIGHTS.
- B. TEMPORARILY REMOVE ALL EXISTING CEILING MOUNTED SMOKE DETECTORS AND EMERGENCY LIGHTING. TEMPORARILY CAP FEEDERS FOR FUTURE REINSTALLATION. SEE NEW WORK PLAN FOR REINSTALLATION.

KEYED NOTES:

- 1. REMOVE EXISTING LIGHT FIXTURE AND SALVAGE TO OWNER.
- 2. TEMPORARILY CAP FEEDERS AND SWITCHING FOR FUTURE REUSE. SEE NEW WORK PLAN FOR NEW FIXTURE TYPES AND LOCATION.
- 3. NO WORK IN THIS LOCATION, SHOWN FOR REFERENCE ONLY.
- 4. REMOVE EXISTING CEILING FANS, SALVAGE FANS FOR FUTURE REUSE.

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PROJECT #14031

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VILLA CONSUELO - ELECTRICAL DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"

LUSA	VILLA CONSUELO	FASATEUR
SENIOR CENTER	SENIOR CENTER	SENIOR CENTER
20415 11TH STREET	20415 11TH STREET	20415 11TH STREET
SANTA FE, NEW MEXICO	SANTA FE, NEW MEXICO	SANTA FE, NEW MEXICO
VILLA CONSUELO SENIOR CENTER		
ELECTRICAL DEMOLITION FLOOR PLAN		
Project number	1210	
Date	15 JULY 2015	
Drawn by		
Checked by	KMT, BGS	

V-E1.0

LIGHT FIXTURE SCHEDULE

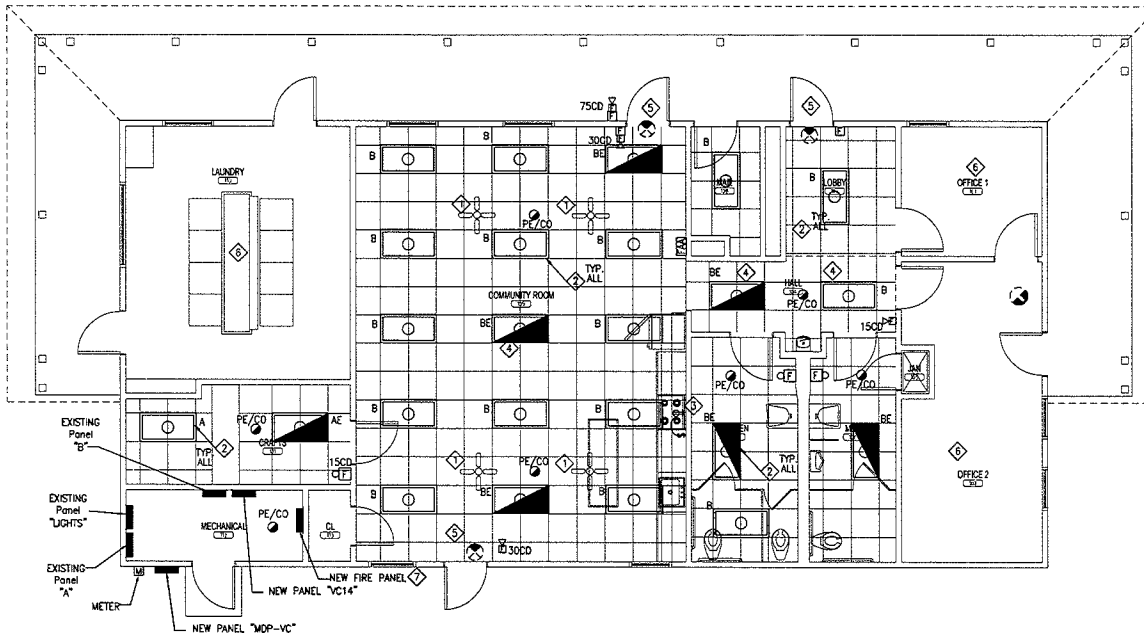
KEY	DESCRIPTION	MANUFACTURER	CATALOG #	HLAMPS/TYP	VOLT.	WATTS/ FIXTURE	MOUNTING	COMMENTS
A	2x4 LED TROFFER	COOPER LIGHTING/ METALUX	24SR-LD1-48-S-UNV-LB35-CD1-U	LED	UNV	49	RECESSED	
B	2x4 LED TROFFER	COOPER LIGHTING/ METALUX	24SR-LD1-39-C-UNV-LB30-CD1-U	LED	UNV	39	RECESSED	
AE	2x4 LED TROFFER WITH EM BACK UP	COOPER LIGHTING/ METALUX	24SR-LD1-48-S-UNV-EL14 -LB35-CD1-U	LED	UNV	49	RECESSED	
BE	2x4 LED TROFFER WITH EM BACK UP	COOPER LIGHTING/ METALUX	24SR-LD1-39-C-UNV-EL14 -LB30-CD1-U	LED	UNV	39	RECESSED	

GENERAL NOTES:

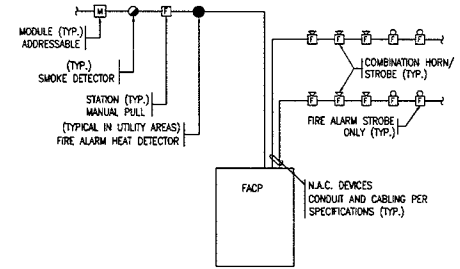
- ALL LIGHTING FIXTURES ARE DIRECT REPLACEMENT ONLY. NO CHANGES TO SWITCHING OR CONTROLS REQUIRED. INSTALL FIXTURES WITH NEW CEILING GRID. COORDINATE INSTALLATION WITH ARCHITECTURAL SHEETS.

KEYED NOTES:

- REINSTALL EXISTING FANS, RECONNECT TO EXISTING SWITCHES AND FEEDERS.
- INSTALL NEW LIGHT FIXTURE IN SAME LOCATION AS EXISTING FOR ONE TO ONE SWAP. CONNECT NEW FIXTURE TO EXISTING FEEDERS AND SWITCHING. PRIOR TO INSTALL FIELD VERIFY FIXTURE LOCATIONS.
- INSTALL NEW SWITCHED RECEPTACLE FOR RANGE HOOD. CONNECT RECEPTACLE TO NEAR OPEN CIRCUIT. INSTALL SWITCH ABOVE COUNTER COORDINATE HEIGHT WITH EXISTING CASE WORK.
- INSTALL NEW LIGHT FIXTURE IN NEW CEILING GRID LAYOUT. EXTEND FEEDERS FROM NEAREST EXISTING FIXTURE. PROVIDE ALL CONDUIT WIRING AND PULLBOXES NECESSARY FOR FULL OPERATIONS. FIELD VERIFY EXISTING FIXTURE LOCATION PRIOR TO INSTALL.
- EXISTING EXIT SIGN TO REMAIN.
- NO WORK IN THIS AREA.
- INSTALL NEW FIRE ALARM CONTROL PANEL AND CONTROL DEVICES THROUGH OUT RENOVATED AREA. REFER TO DETAIL THIS SHEET FOR ADDITIONAL INFORMATION.



T EXISTING UTILITY TRANSFORMER 120/240V 1 PH



ADDRESSABLE FIRE ALARM-RISER DIAGRAM DETAIL

NOT TO SCALE

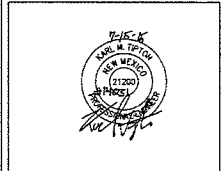
NOTE: FIELD VERIFY LOCATIONS AND QUANTITIES OF FIRE ALARM DEVICES AND ZONING. PROVIDE CONNECTIONS AS REQUIRED.

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LUISA SENIOR CENTER VILLA CONSUELO SENIOR CENTER PASADENA SENIOR CENTER
505 LUISA STREET 1200 CAMINO CONSUELO STREET 800 ALVA STREET
SANTA FE, NM 87505 SANTA FE, NM 87505 SANTA FE, NM 87505

VILLA CONSUELO SENIOR CENTER ELECTRICAL FLOOR PLAN LIGHTING

Project number: 1210
Date: 15 JULY 2015
Client: Designer: KMT.BGS

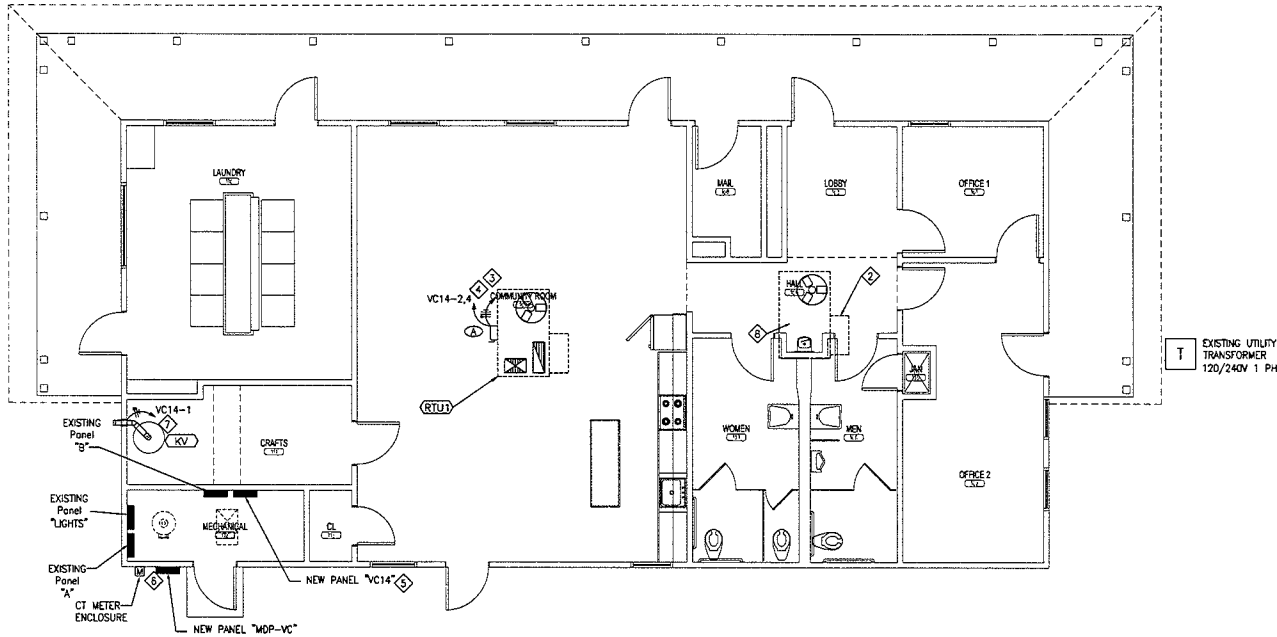
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VILLA CONSUELO SENIOR CENTER - ELECTRICAL FLOOR PLAN - LIGHTING
SCALE: 1/4" = 1'-0"


KEYED NOTES

1. NOT USED.
2. EXISTING UNIT AND CONNECTION TO REMAIN. SHOWN FOR REFERENCE ONLY.
3. INSTALL 40A/2P, 240V, FUSIBLE DISCONNECT SWITCH, FUSES SIZED AT 40A PER MANUFACTURER'S RECOMMENDATION. EXTEND CONDUIT FROM DISCONNECT TO PANEL INDICATED. COORDINATE LOCATION TO MOUNT DISCONNECT IN CONVENIENT LOCATION AND COMPLY AS REQUIRED FOR NEC WORKING CLEARANCES AND OWNER REQUIREMENTS.
4. EXTEND 3/4" WITH CONTROL CONDUCTORS AS REQUIRED TO RESPECTIVE A/C UNIT CONTROLLER. PROVIDE ALL WIRING AND CONNECTIONS FOR A COMPLETE AND OPERATIONAL INSTALLATION. COORDINATE WITH MECHANICAL AND A/C UNIT CONTROL DIAGRAMS.
5. FIELD COORDINATE EXACT LOCATION OF NEW ELECTRICAL PANEL WITH EXISTING MECHANICAL EQUIPMENT.
6. INSTALL CONDUIT AND FEEDERS FROM METER TO MDP. SEE NEW RISER SHEET V-26.0.
7. INSTALL 120V MECHANICAL UNIT PROVIDE NECESSARY MEANS OF DISCONNECT AND ALL ASSOCIATED WIRING AND CONDUIT.
8. INSTALL NEW DRINKING FOUNTAIN, RECONNECT TO EXISTING DRINKING FOUNTAIN POWER. FIELD VERIFY CIRCUIT CAPACITY PRIOR TO INSTALL.


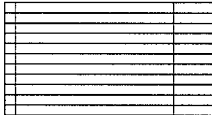
EQUIPMENT FEEDER SCHEDULE						
DESCRIPTION KEY	PHASE CONDUCTORS	NEUTRAL	EQUIP GROUND	ISOLATED GROUNDING CONDUCTOR	GROUNDING ELECTRODE CONDUCTOR	CONDUIT
A	40A 1Ø	1-#6 CU	1-#8 CU	1-#10 CU		3/4"



VILLA CONSUELO SENIOR CENTER - ELECTRICAL FLOOR PLAN- POWER
SCALE: 1/4" = 1'-0"


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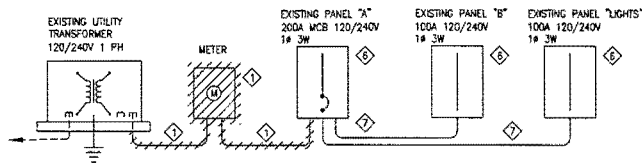


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 SANTA FE, NM 87504 SANTA FE, NM 87504 SANTA FE, NM 87504

VILLA CONSUELO SENIOR CENTER
ELECTRICAL FLOOR PLAN POWER
 Project Number 1210
 Date 15 JULY 2015
 Drawn by
 Checked by KMT, BGS

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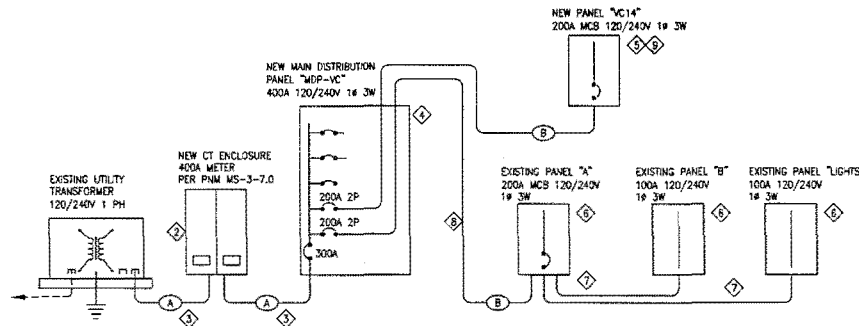


KEYED NOTES

1. REMOVE EXISTING METER, CONDUIT, AND FEEDERS. COORDINATE WORK WITH PNM.
2. INSTALL NEW CT ENCLOSURE/METER PER PNM REQUIREMENTS, DWG MS-3-7.0. COORDINATE WORK WITH PNM.
3. INSTALL NEW CONDUITS AND FEEDERS PER PNM REQUIREMENTS. COORDINATE WORK WITH PNM.
4. INSTALL NEW 400A MAIN DISTRIBUTION PANEL.
5. INSTALL NEW 200A PANEL.
6. EXISTING PANEL TO REMAIN.
7. EXISTING FEEDERS AND CONDUIT TO REMAIN.
8. EXTEND NEW CONDUIT AND FEEDERS FROM NEW MAIN DISTRIBUTION PANEL TO EXISTING PANEL "A".
9. PANEL TO BE UTILIZED AS KITCHEN PANEL, IN FUTURE WORK.

ELECTRICAL DEMOLITION RISER DIAGRAM - VILLA CONSUELO SENIOR CENTER

SCALE: NOT TO SCALE



FEEDER SCHEDULE

KEY	DESCRIPTION	PHASE CONDUCTORS	EQUIP GROUND	ISOLATED GROUNDING CONDUCTOR	GROUNDING ELECTRODE CONDUCTOR	CONDUIT
A	400A 1Ø	2-#800 MCM CU	1-#2 CU			3"
B	200A 1Ø	2-#3/0 CU	1-#4 CU			2"

LEGEND

	NEW CONDUIT
	NEW FEEDERS
	EXISTING CONDUIT
	EXISTING FEEDERS

ELECTRICAL RISER DIAGRAM - VILLA CONSUELO SENIOR CENTER

SCALE: NOT TO SCALE

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PROJECT #14031

P: JFP: JM: EJ:

Professional Engineer Seal for Santa Fe, New Mexico, License #11323, dated 11/2013.

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PASA TRAPP: SENIOR CENTER
2800 CONSUELO STREET SANTA FE, NM 87505

**VILLA CONSUELO SENIOR CENTER
ELECTRICAL RISER**

Sheet Number: 1210
Date: 15 JULY 2015
Checked by: KMT/BGS

V-E6.0

PANEL MDP-VC

Load Description	Cat #	Brkr Size	poles	CCT #	Phase A Load	Phase B Load	CCT #	poles	Brkr Size	Cat #	Load Description
PANEL VC14	4	200	2	1	200		2	2	200	4	EXISTING PANEL
SPACE			1	3	1820						SPACE
SPACE			1	7	0						SPACE
Total VA					34420				22066		

Load Category	Connected	Dmd %	Demand	Feeder Size	SEE RISER
1) Lighting	0	1.25	0	Connecter kVA	41.55
2) Recepticals	0	1	0	Demand kVA	41.55
3) Motor	0	0.5	0	Connected Amper	186
4) Sub - Panels	44534	1	44534	Demand Amper	186
Total	44534		44534		

FED FROM 80KVA TRANSFORMER
PER NEC ALL MULTIWIRE BRANCH CIRCUITS SHALL
BE PROVIDED WITH MULTIPOLE CIRCUIT BREAKERS

PANEL "MDP-VC", 120/240V 1 PHASE, 3 WIRE
40AMP, NEMA 1 ENCLOSURE, SURFACE MOUNT,
NEMA 3R ENCLOSURE, BOTTOM FEED, DOOR-IN-DOOR
SQUARE "D" OR EQUAL
22,000 AAC

SHORT CIRCUIT ANALYSIS - SINGLE PHASE

ASSUME THE BUILDING TRANSFORMER IS **50** KVA WITH UNLIMITED PRIMARY SHORT CIRCUIT
AMPS AND 1.7 PERCENT IMPEDANCE. THE MAXIMUM LET THROUGH CURRENT AT THE SECONDARY
TERMINALS OF THE TRANSFORMER IS: **19050** AMPS. THE MAXIMUM AVAILABLE FAULT AT THE MAIN
FUSIBLE DISCONNECT WILL BE APPROXIMATELY **12495.68** AMPS. THE MAXIMUM AVAILABLE FAULT
AT THE CLOSEST PANELBOARD WILL BE LESS THAN **22,000** AMPS USING TYPE **JJN**
FUSES IN THE MAIN SWITCH. ALL NEW PANELBOARDS SHALL BE RATED A MINIMUM OF **22,000** AMPS

PANEL VC14

Load Description	Cat #	Brkr Size	poles	CCT #	Phase A Load	Phase B Load	CCT #	poles	Brkr Size	Cat #	Load Description
RV	3	20	1	1	200		2	2	40	3	RVU1
SPARE		20	1	3	2588				4	2	40
SPARE		20	1	5	0				6	1	20
SPARE		20	1	7	0				8	1	20
SPARE		20	1	9	0				10	1	20
SPARE		20	1	11	0				12	1	20
SPARE		20	1	13	0				14	1	20
SPARE		20	1	15	0				16	1	20
SPARE		20	1	17	0				16	1	20
SPACE		1	19	0	0				20	1	20
SPACE		1	21	0	0				22	1	20
SPACE		1	23	0	0				24	1	20
SPACE		1	25	0	0				26	1	20
SPACE		1	27	0	0				28	1	20
SPACE		1	29	0	0				30	1	20
Total VA					4768				2888		

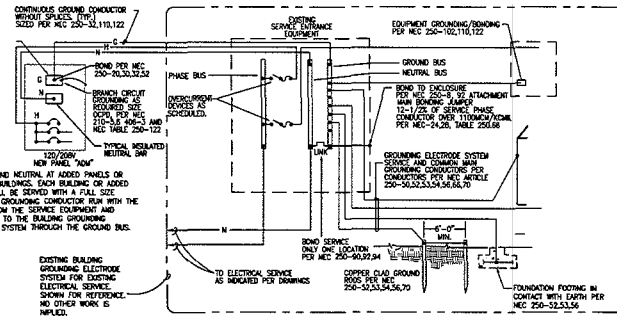
Load Category	Connected	Dmd %	Demand	Feeder Size	SEE RISER
1) Lighting	0	1.25	0	Connecter kVA	3.58
2) Recepticals	0	1	0	Demand kVA	7.92
3) Motor	3076	0.5	6720	Connected Amper	24
4) Sub - Panels	300	1	300	Demand Amper	29
Total	3376		6720		

FED FROM "MDP-VC"
PER NEC ALL MULTIWIRE BRANCH CIRCUITS SHALL
BE PROVIDED WITH MULTIPOLE CIRCUIT BREAKERS

PANEL "VC14", 120/240V 1 PHASE, 3 WIRE
20AMP, NEMA 1 ENCLOSURE, SURFACE MOUNT,
NEMA 3R ENCLOSURE, BOTTOM FEED, DOOR-IN-DOOR
SQUARE "D" NO LOAD CENTER OR EQUAL

UNIT #	TYPE	MECHANICAL / ELECTRICAL RESPONSIBILITY TABLE									
		DISCONNECT	STARTER/CONTACTOR	CONTROL WIRE	LOCK/TROUBLE SHOOTING	ALIVE DISCONNECT	PROVIDED	INSTALLED	PROVIDED	INSTALLED	
RVU1	MC	MC	EC	MC	MC	CC	CC	EC	EC	NA	NA
1	MC	NA	NA	NA	NA	CC	CC	EC	EC	NA	NA

MC Mechanical Contractor
EC Electrical Contractor
CC General Contractor



SANTA FE
1221 Lugo St, Suite B
Santa Fe, New Mexico 87505
505.966.0700

ALBUQUERQUE
2417 Balboa Ave, NE
Albuquerque, NM 87110
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MECHANICAL & ELECTRICAL
DESIGNING, INC.
PROJECT #14031

P: IFF: M: E:



autotroph

LUCIA VILLA CONSUELO PHASE 1
SENIOR CENTER SOUTH CENTER SOUTH CENTER
300 LUGA STREET, SEVEN MOUNTAIN DRIVE
SANTA FE, NEW MEXICO 87505

VILLA CONSUELO SENIOR CENTER
ELECTRICAL RISER

Project number: 1210
Date: 15 JULY 2015
Drawn by: KMT/BGS
Checked by: KMT/BGS

V-E6.1