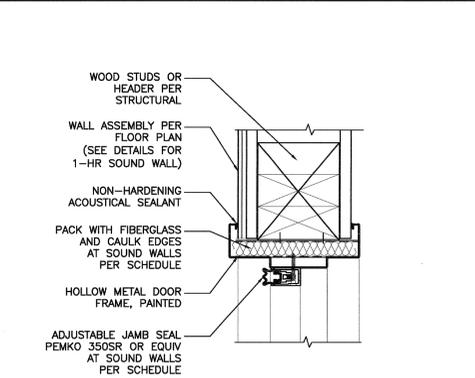
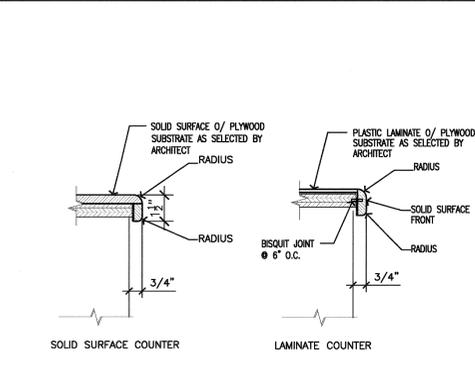


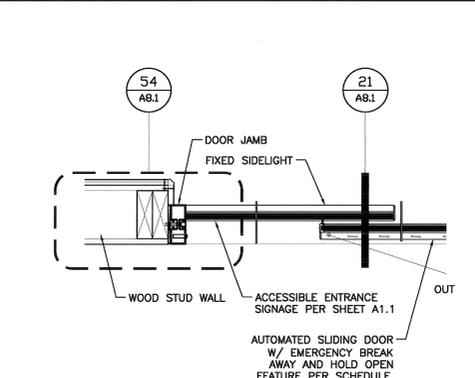
51 INT. DOOR JAMB/HEAD SIM. (NON-ACOUSTIC) SCALE: 3'-1'-0"



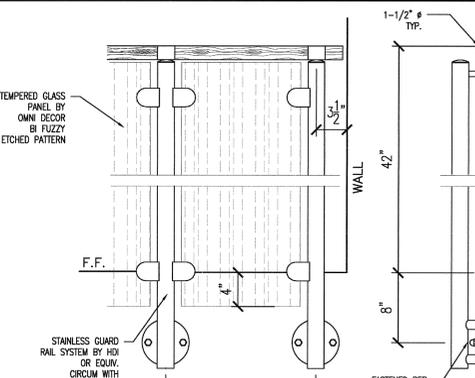
41 DOOR HEAD/JAMB (ACOUSTIC) SCALE: NTS



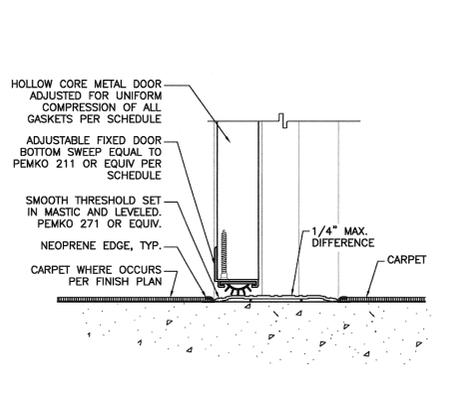
31 COUNTER TOPS SCALE: NTS



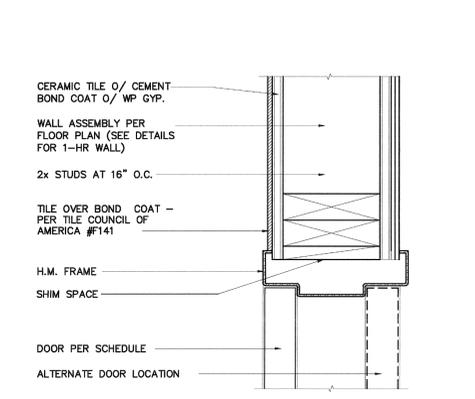
21 ENTRY DOOR SCALE: 1 1/2'-1'-0"



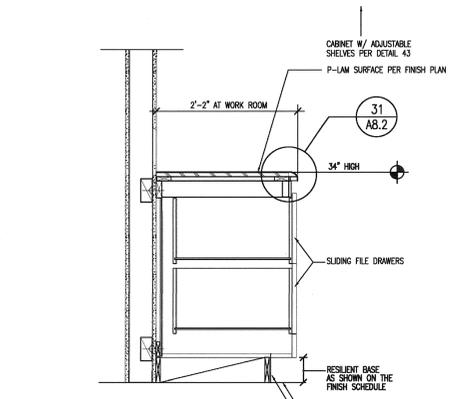
11 GUARD RAIL SECTION SCALE: 1 1/2'-1'-0"



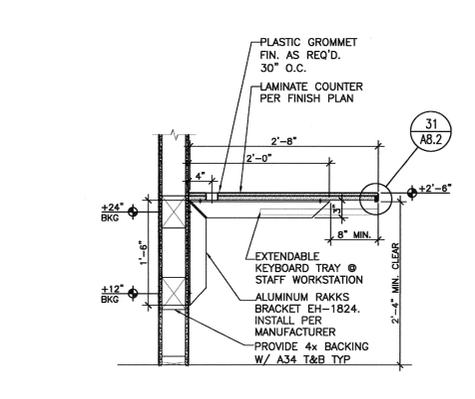
52 INTERIOR DOOR THRESHOLD (ACOUSTIC) SCALE: NTS



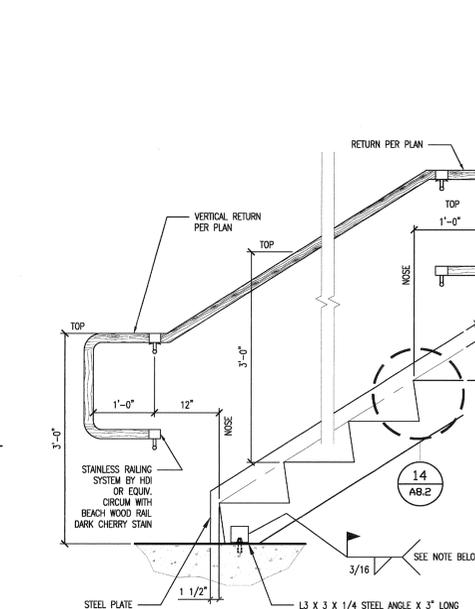
42 DOOR JAMB AT TILE SCALE: 3'-1'-0"



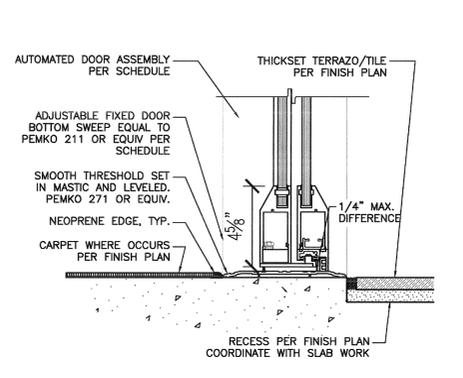
32 WORK WALL CABINETS SCALE: NTS



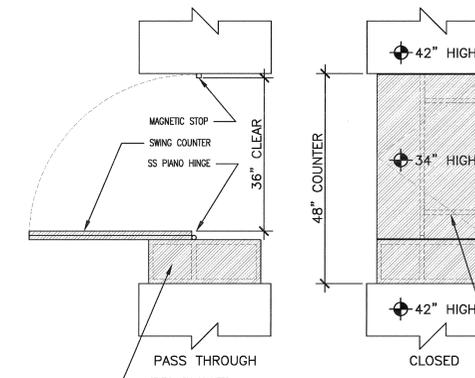
22 WALL HUNG COUNTER SCALE: 1'-1'-0"



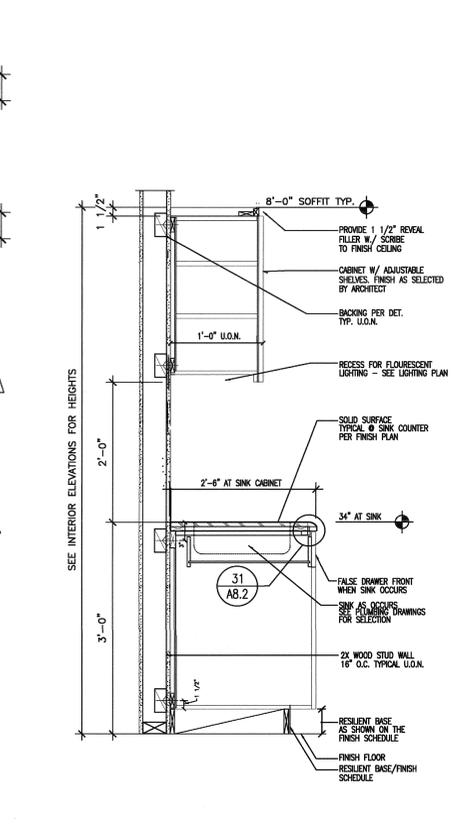
13 RAIL TERMINATION AT BOTTOM OF STAIR SCALE: 1 1/2'-1'-0"



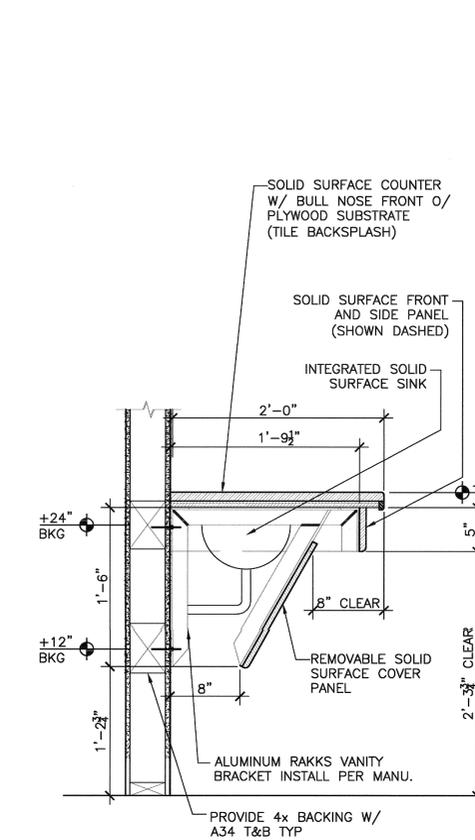
53 INTERIOR DOOR THRESHOLD (AT LOBBY) SCALE: NTS



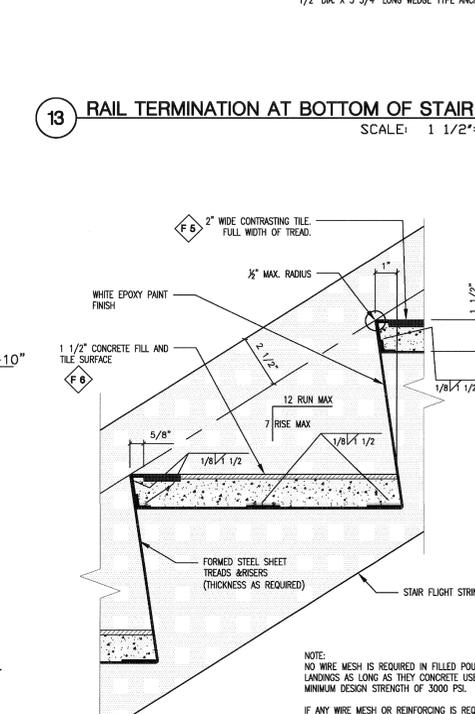
44 ACCESSIBLE COUNTER / SWING GATE SCALE: 1-1/2' = 1'-0"



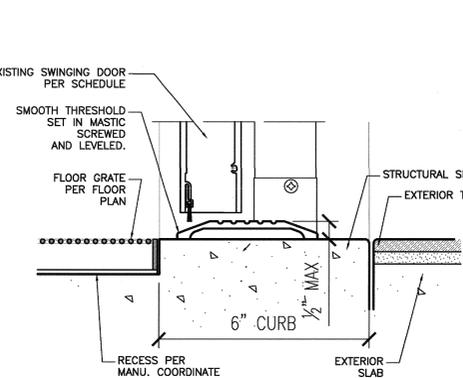
34 SINK WALL CABINETS SCALE: NTS



24 LAVATORY COUNTER SCALE: 1-1/2' = 1'-0"



14 TYPICAL TREAD DETAIL SCALE: NTS



54 ENTRY THRESHOLD SCALE: HALF

Atascadero Library
COUNTY OF SAN LUIS OBISPO
DEPARTMENT OF GENERAL SERVICES
107 SANTA ROSA STREET
SAN LUIS OBISPO, CA 93408
PHONE: 805.778.0200

REGISTERED ARCHITECT
ALLEN BROWN
STATE OF CALIFORNIA

No.	Revision	Date
PLANCHCK	REV1	9.26.12
PLANCHCK	REV2	10.24.12
PLANCHCK	REV3	11.19.12

County Facility:
ATASCADERO LIBRARY RENOVATION
8555 CAPSTRANO AVE.
ATASCADERO CA 93422

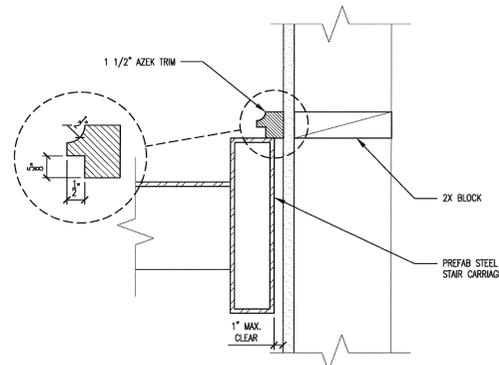
Project Manager: M. DEMARTINI
Checked By: MD
Client Approval:
Date: 08/20/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

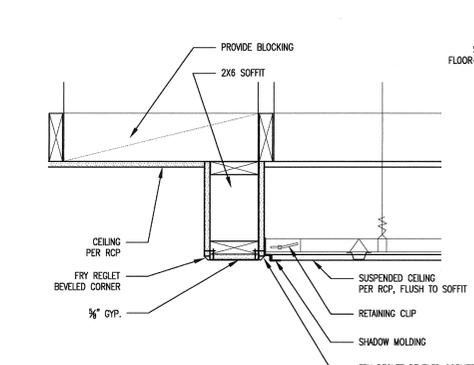
Project Title: ATASCADERO LIBRARY RENOVATION
Sheet Title: ARCHITECTURAL DETAILS

Sheet Number: **A8.2**
of Sheets
PROJECT No. 417
FILE No.

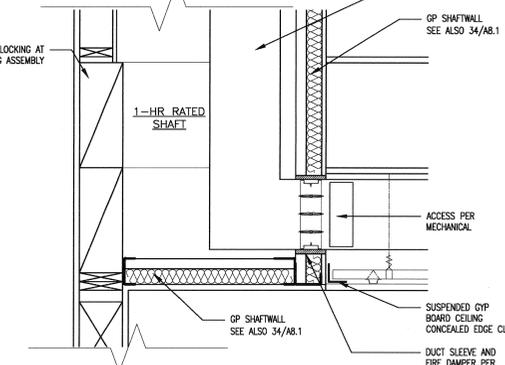
BIDDING SET 11-19-12



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



21 CEILING SOFFIT TRANSITION SCALE: 1/2" = 1'-0"



11 1-HR RATED SHAFT (TYPICAL) SCALE: 1/4" = 1'-0"

CONTRACTOR TO VERIFY THE FOLLOWING FOR COMPLIANCE WITH CBC

- THE CAR INSIDE SHALL ALLOW FOR THE TURNING OF A WHEELCHAIR. THE MINIMUM CLEAR DISTANCE BETWEEN WALLS OR BETWEEN WALL AND DOOR, EXCLUDING RETURN PANELS, SHALL BE NOT LESS THAN 80" BY 54" FOR CENTER-OPENING DOORS, AND 68" BY 54" FOR SIDE-SLIDE OPENING DOORS. MINIMUM DISTANCE FROM WALL TO RETURN PANEL SHALL BE NOT LESS THAN 51". [1116B.1.8 CBC]
- MINIMUM CLEAR WIDTH FOR ELEVATOR DOORS SHALL BE 36". [1116B.1.4 CBC]
- A HANDRAIL SHALL BE PROVIDED ON ONE WALL OF THE CAR, PREFERABLE THE REAR. THE RAILS SHALL BE SMOOTH AND THE INSIDE SURFACE AT LEAST 1 1/2" CLEAR OF THE WALL AT A NOMINAL HEIGHT OF 32" ABOVE THE FLOOR. [1116B.1.11 CBC]
- THE CENTERLINE OF ELEVATOR FLOOR BUTTONS SHALL BE NO HIGHER THAN 54" ABOVE THE FINISHED FLOOR FOR SIDE APPROACH AND 48" FOR FRONT APPROACH. [1116B.1.8 CBC]
- FLOOR BUTTONS SHALL BE PROVIDED WITH VISUAL INDICATORS TO SHOW WHEN EACH CALL IS REGISTERED. THE VISUAL INDICATORS SHALL BE EXTINGUISHED WHEN EACH CALL IS ANSWERED. [1116B.1.8 CBC]
- EMERGENCY CONTROLS, INCLUDING THE EMERGENCY STOP AND ALARM, SHALL BE GROUPED IN OR ADJACENT TO THE BOTTOM OF THE PANEL AND SHALL BE NO LOWER THAN 2'-11" FROM THE FLOOR. FOR MULTIPLE CONTROLS ONLY, ONE SET MUST COMPLY WITH THESE HEIGHT REQUIREMENTS. [1116B.1.8 CBC]
- THE CENTERLINE OF THE HALL CALL BUTTONS SHALL BE WITHIN 42" OF THE FLOOR. THE BUTTONS SHALL BE A MINIMUM OF 3/4" IN SIZE AND SHALL BE RAISED 1/8" +/- 1/32" ABOVE THE SURROUNDING SURFACE. VISUAL INDICATORS SHALL BE PROVIDED TO SHOW EACH CALL REGISTERED AND EXTINGUISHED WHEN ANSWERED. OBJECTS ADJACENT TO AND BELOW HALL CALL BUTTONS SHALL NOT PROJECT MORE THAN 4" FROM THE WALL. [1116B.1.10 CBC]
- THE EMERGENCY TELEPHONE HANDSET SHALL BE POSITIONED NO HIGHER THAN 4' ABOVE THE FLOOR, AND THE HANDSET CORD SHALL BE A MINIMUM OF 2'-5" IN LENGTH. [1116B.1.8 CBC]
- IF THE TELEPHONE SYSTEM IS LOCATED IN A CLOSED COMPARTMENT, THE COMPARTMENT DOOR HARDWARE SHALL BE LEVER TYPE CONFORMING TO THE PROVISIONS OF SECTION 1008.1.8, TYPE OF LOCK OR LATCH, EMERGENCY INTERCOMMUNICATION SHALL NOT REQUIRE VOICE COMMUNICATION. [1116B.1.8 CBC]
- THE MINIMUM ILLUMINATION AT THE CAR CONTROLS, THRESHOLD, AND THE LANDING WHEN THE CAR AND LANDING DOORS ARE OPEN SHALL NOT BE LESS THAN 5 FOOT-CANDELES.
- [1116B.1.9 CBC] IDENTIFICATION FOR THE VISUALLY IMPAIRED REQUIREMENTS.
- [1116B.1.13 CBC] A VISUAL AND AUDIBLE SIGNAL SHALL BE PROVIDED AT EACH HOISTWAY ENTRANCE INDICATING TO THE PROSPECTIVE PASSENGER THE CAR ANSWERING THE CALL AND ITS DIRECTION OF TRAVEL.
- THE USE OF IN-CAR LANTERNS, LOCATED IN OR ON THE CAR DOOR JAMBS, VISIBLE FROM THE PROXIMITY OF THE HALL CALL BUTTONS AND CONFORMING TO ALL OTHER REQUIREMENTS OF SECTION 1116B.1.13 WILL BE ACCEPTABLE. [1116B.1.13 CBC]
- THE USE OF ARROW SHAPES IS PREFERRED FOR VISIBLE SIGNALS. [1116B.1.13 CBC]
- PASSENGER ELEVATOR LANDING JAMBS ON ALL ELEVATOR FLOORS SHALL HAVE THE NUMBER OF THE FLOOR ON WHICH THE JAMB IS LOCATED DESIGNATED BY RAISED CHARACTERS WHICH ARE A MINIMUM OF 2" IN HEIGHT AND RAISED BRAILLE SYMBOLS WHICH CONFORM TO SECTION 1117B.5.6 LOCATED 60" ON CENTER ABOVE THE FLOOR ON THE JAMB PANELS ON BOTH SIDES OF THE DOOR SO THAT THEY ARE VISIBLE FROM WITHIN THE ELEVATOR. THE RAISED CHARACTERS SHALL BE ON A CONTRASTING BACKGROUND. BRAILLE SYMBOLS SHALL BE PLACED DIRECTLY BELOW THE CORRESPONDING RAISED CHARACTERS. [1116B.1.14 CBC]
- ON THE GRADE LEVEL, A RAISED FIVE-POINTED STAR SHALL BE PLACED TO THE LEFT OF THE RAISED DOORJAMB CHARACTERS. THE OUTSIDE DIAMETER OF THE STAR SHALL BE 2 INCHES. [1116B.1.14 CBC]
- THE ELEVATOR SHALL BE AUTOMATIC AND BE PROVIDED WITH A SELF-LEVELING FEATURE THAT WILL AUTOMATICALLY BRING THE CAR TO THE FLOOR LANDINGS WITHIN A TOLERANCE OF PLUS OR MINUS 1/2 INCH UNDER NORMAL LOADING AND UNLOADING CONDITIONS. THIS SELF-LEVELING SHALL, WITHIN ITS ZONE, BE ENTIRELY AUTOMATIC AND INDEPENDENT OF THE OPERATING DEVICE AND HALL CORRECT THE OVER-TRAVEL AND UNDER-TRAVEL. THE CAR SHALL ALSO BE MAINTAINED APPROXIMATELY LEVEL WITH THE LANDING, IRRESPECTIVE OF LOADING. THE CLEARANCE BETWEEN THE CAR PLATFORM SILL AND THE EDGE OF THE HOISTWAY LANDING SHALL BE NO GREATER THAN 1/4". [1116B.1.5 CBC]
- DOORS CLOSED BY AUTOMATIC MEANS SHALL BE PROVIDED WITH A DOOR REOPENING DEVICE WHICH WILL FUNCTION TO STOP AND REOPEN A CAR DOOR AND ADJACENT HOISTWAY DOOR IN CASE THE CAR DOOR IS OBSTRUCTED WHILE CLOSING. THIS REOPENING DEVICE SHALL ALSO BE CAPABLE OF SENSING AN OBJECT OR PERSON IN THE PATH OF THE CLOSING DOOR WITHOUT REQUIRING CONTACT FOR ACTIVATION AT A NORMAL 5" AND 29" ABOVE THE FLOOR. DOOR REOPENING DEVICES SHALL REMAIN EFFECTIVE FOR A PERIOD OF NOT LESS THAN 20 SECONDS. AFTER SUCH AN INTERVAL THE DOORS MAY CLOSE IN ACCORDANCE WITH THE REQUIREMENTS OF ASME A17.1. [1116B.1.5 CBC]
- THE MINIMUM ACCEPTABLE TIME FROM NOTIFICATION THAT A CAR IS ANSWERING A CALL (LANTERN AND AUDIBLE SIGNAL) UNTIL THE DOORS OF THE CAR START TO CLOSE SHALL BE CALCULATED IN ACCORDANCE WITH SECTION 1116B.1.6
- FOR CARS WITH IN-CAR LANTERNS, THE TOTAL TIME, T, AS CALCULATED IN ACCORDANCE WITH SECTION 1116B.1.6, BEGINS WHEN THE LANTERN IS VISIBLE FROM THE VICINITY OF HALL CALL BUTTONS AND AN AUDIBLE SIGNAL IS SOUNDED. [FIG. 11B-40D CBC]
- THE MINIMUM ACCEPTABLE TIME FOR DOORS TO REMAIN FULLY OPEN SHALL NOT BE LESS THAN 5 SECONDS. [1116B.1.6 CBC]

54 ELEVATOR COMPLIANCE NOTES SCALE: NTS

116B.2 PLATFORM (WHEELCHAIR) LIFTS. PLATFORM (WHEELCHAIR) LIFTS SHALL COMPLY WITH THIS SECTION.

PLATFORM (WHEELCHAIR) LIFTS MAY BE PROVIDED AS PART OF AN ACCESSIBLE ROUTE ONLY FOR THE FOLLOWING CONDITIONS:

- TO PROVIDE AN ACCESSIBLE ROUTE TO A PERFORMING AREA IN AN ASSEMBLY OCCUPANCY, OR TO A SPEAKING AREA OR SIMILAR PLACE (SUCH AS A Dais OR "HEAD TABLE") IN AN ASSEMBLY OR GROUP B OCCUPANCY.
- TO COMPLY WITH THE WHEELCHAIR VIEWING POSITION LINE-OF-SIGHT AND DISPERSION REQUIREMENTS OF SECTION 1104B.3.5
- TO PROVIDE ACCESS TO INCIDENTAL OCCUPIABLE SPACES AND ROOMS WHICH ARE NOT OPEN TO THE GENERAL PUBLIC AND WHICH HOUSE NO MORE THAN FIVE PERSONS, INCLUDING, BUT NOT LIMITED TO, EQUIPMENT CONTROL ROOMS AND PROJECTION BOOTHS.
- TO PROVIDE ACCESS WHERE EXISTING SITE CONSTRAINTS OR OTHER CONSTRAINTS MAKE USE OF A RAMP OR AN ELEVATOR INFEASIBLE.

EXCEPTION: IN EXISTING BUILDINGS, THE INSTALLATION OF PLATFORM (WHEELCHAIR) LIFTS AS PART OF AN ACCESSIBLE PATH OF TRAVEL FOR ADDITIONS OR ALTERATIONS IS NOT LIMITED TO THE FOUR CONDITIONS LISTED IN THIS SECTION.

- 1116B.2.1 GENERAL.** WHEN PLATFORM (WHEELCHAIR) LIFTS ARE PROVIDED, THE VERTICAL DISTANCE BETWEEN LANDINGS, AS WELL AS THE STRUCTURAL DESIGN AND SAFEGUARDS, SHALL BE AS ALLOWED BY ASME A18.1 "SAFETY STANDARD FOR PLATFORM LIFTS AND STAIRWAY CHAIR LIFTS; THE DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH; AND ANY APPLICABLE SAFETY REGULATIONS OF OTHER ADMINISTRATIVE AUTHORITIES HAVING JURISDICTION."
- 1116B.2.2 UNASSISTED ENTRY.** PLATFORM (WHEELCHAIR) LIFTS SHALL BE DESIGNED AND CONSTRUCTED TO FACILITATE UNASSISTED ENTRY, OPERATION AND EXIT FROM THE LIFT AND SHALL COMPLY WITH THE RESTRICTIONS AND ENHANCEMENTS OF THIS SECTION IN CONJUNCTION WITH TITLE 8, OF THE "CALIFORNIA CODE OF REGULATIONS."

- 1116B.2.3 LANDING SIZE.** IN NEW CONSTRUCTION, THE MINIMUM SIZE OF LANDINGS AT PLATFORM LIFTS SHALL BE 60 INCHES BY 60 INCHES (1524 MM BY 1524 MM). OTHER DIMENSIONS MAY BE SUBSTITUTED WHERE IT CAN BE DEMONSTRATED THAT A PERSON USING A WHEELCHAIR MEASURING 30 INCHES BY 48 INCHES (762 MM BY 1219 MM) CAN ENTER AND OPERATE THE LIFT SAFELY.

- 1116B.2.4 RELATIONSHIP TO THE PATH OF TRAVEL.** LEVEL AND CLEAR FLOOR AREAS OR LANDINGS AT PLATFORM LIFTS SHALL BE PART OF "PATH OF TRAVEL" REQUIREMENTS.

EXCEPTIONS:

- THE PROVISIONS OF THIS SECTION SHALL NOT APPLY TO EXISTING BUILDINGS WHEN PHYSICAL CONSTRAINTS WILL NOT ALLOW COMPLIANCE WITH THESE REGULATIONS OR EQUIVALENT FACILITATION WITHOUT CREATING AN UNREASONABLE HARDSHIP. SEE SECTION 1.9.1.
- WHEN THE ENFORCING AGENCY DETERMINES THAT COMPLIANCE WITH ANY REGULATION UNDER THIS SECTION WOULD CREATE AN UNREASONABLE HARDSHIP, AN EXCEPTION TO SUCH REGULATION SHALL BE GRANTED WHEN EQUIVALENT FACILITATION IS PROVIDED.

- 1116B.2.5 WHEN PROVIDED AS A MEANS OF EGRESS.** PLATFORM (WHEELCHAIR) LIFTS, WHEN PROVIDED AS A COMPONENT IN AN ACCESSIBLE MEANS OF EGRESS, SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1116B.2.5.

- 1116B.2.5.1 STANDBY POWER.** TO ENSURE CONTINUED OPERATION IN CASE OF PRIMARY POWER LOSS, PLATFORM (WHEELCHAIR) LIFTS SHALL BE PROVIDED WITH STANDBY POWER OR WITH SELF-RECHARGEABLE BATTERY POWER THAT PROVIDES SUFFICIENT POWER TO OPERATE ALL PLATFORM LIFT FUNCTIONS FOR A MINIMUM OF FIVE UPWARD AND DOWNWARD TRIPS.

- 1116B.2.5.2 PLATFORM (WHEELCHAIR) LIFTS,** WHEN PROVIDED PER SECTION 1116B.2, ITEM 2, ARE PERMITTED TO BE A COMPONENT OF AN ACCESSIBLE MEANS OF EGRESS WHEN THE AREA SERVED BY THE PLATFORM (WHEELCHAIR) LIFT DOES NOT SERVE MORE THAN FOUR WHEELCHAIR VIEWING POSITIONS AND WHERE ANY ONE OF THE FOLLOWING CONDITIONS EXISTS:

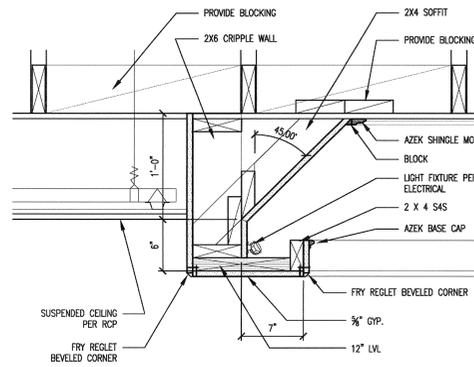
- THE BUILDING HAS A SUPERVISED AUTOMATIC SPRINKLER SYSTEM.
- THE MAXIMUM DISTANCE FROM THE POINT WHERE THE WHEELCHAIR OCCUPANT IS SEATED TO A POINT WHERE THE OCCUPANT HAS A CHOICE OF TWO DIRECTIONS OF TRAVEL TO AN EXIT SHALL NOT EXCEED 30 FEET (9144MM). THE LENGTH OF THE PATH OF TRAVEL SHALL INCLUDE THE VERTICAL TRAVEL DISTANCE TO THE LIFT.

- 1116B.2.6 DOORS AND GATES.** LIFTS SHALL HAVE LOW ENERGY POWER-OPERATED DOORS OR GATES. DOORS AND GATES SHALL REMAIN OPEN FOR 20 SECONDS MINIMUM. END DOORS SHALL BE 32 INCHES (813MM) MINIMUM CLEAR WIDTH. SIDE DOORS SHALL BE 42 INCHES (1067 MM) MINIMUM CLEAR WIDTH.

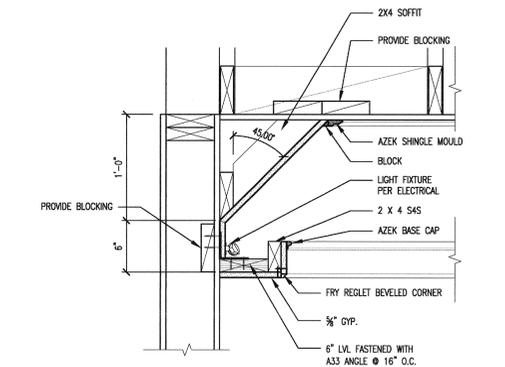
EXCEPTION: LIFTS HAVING DOORS OR GATES ON OPPOSITE SIDES SHALL BE PERMITTED TO HAVE MANUAL DOORS OR GATES.

- 1116B.2.7 RESTRICTION SIGN.** A SIGN COMPLYING WITH SECTION 1117B.5.1, ITEM 2 AND 3 SHALL BE SECURELY FASTENED IN A CONSPICUOUS PLACE AT EACH LANDING AND ON THE PLATFORM. THE SIGN SHALL STATE "NO FREIGHT" IN LETTERS NOT LESS THAN 3/8 INCH (16 MM) HIGH AND INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

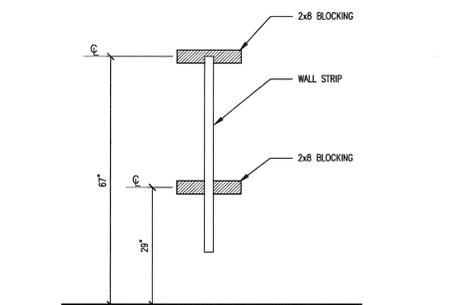
44 WHEELCHAIR LIFT NOTES SCALE: NTS



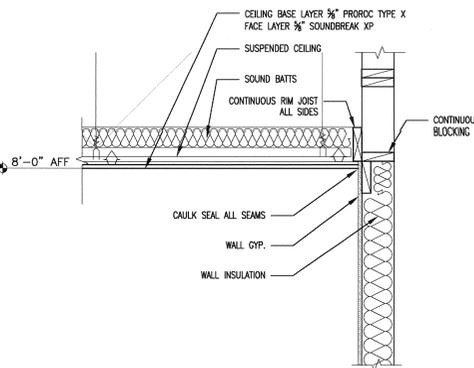
22 CEILING SOFFIT TRANSITION SCALE: 1 1/2" = 1'-0"



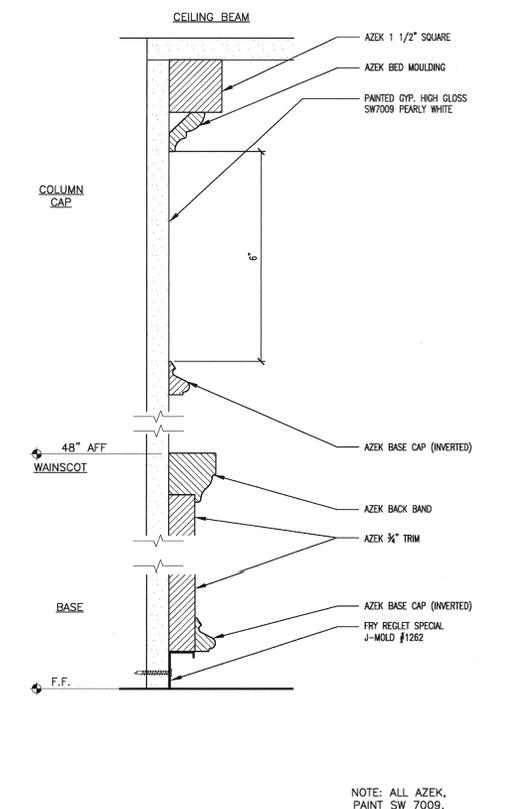
12 CEILING SOFFIT AT WALL SCALE: 1 1/2" = 1'-0"



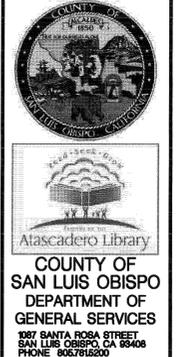
23 MODULAR FURNITURE SUPPORT SCALE: 1 1/2" = 1'-0"



24 GYP CEILING AT RESTROOM SCALE: 1 1/2" = 1'-0"



14 COLUMN TRIM SCALE: 6" = 1'-0"



ATASCADERO LIBRARY
COUNTY OF SAN LUIS OBISPO
DEPARTMENT OF GENERAL SERVICES
1307 SANTA ROSA STREET
SAN LUIS OBISPO, CA 93408
PHONE 805/7616200

REGISTERED ARCHITECT
GREY ALEN WHITE
STATE OF CALIFORNIA

No.	Revision	Date
1	PLANCHCK REV1	9.26.12
2	PLANCHCK REV2	10.24.12
3	PLANCHCK REV3	11.19.12

County Facility:
ATASCADERO LIBRARY RENOVATION
6555 CAPISTRANO AVE.
ATASCADERO CA 93422

Project Manager: M. DEMARTINI
Checked By: MD
Client Approval:
Date: 08/20/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title : ATASCADERO LIBRARY RENOVATION
6555 CAPISTRANO AVE. ATASCADERO CA 93422
Sheet Title : ARCHITECTURAL DETAILS

Sheet Number
A8.3
of Sheets
PROJECT No. 417
FILE No.

NONRESIDENTIAL VOLUNTARY MEASURES

NONRESIDENTIAL VOLUNTARY MEASURES

NONRESIDENTIAL VOLUNTARY MEASURES

NONRESIDENTIAL VOLUNTARY MEASURES

Table with columns: APPLICATION CHECKLIST FOR BSC, MANDATORY, CALGreen Tier 1, CALGreen Tier 2. Rows include Water Efficiency and Conservation, Additions and Alterations to Existing Nonresidential Buildings, and Materials Conservation and Resource Efficiency.

Table with columns: APPLICATION CHECKLIST FOR BSC, MANDATORY, CALGreen Tier 1, CALGreen Tier 2. Rows include Construction waste management, Building maintenance and operation, and Environmental Quality.

Table with columns: APPLICATION CHECKLIST FOR BSC, MANDATORY, CALGreen Tier 1, CALGreen Tier 2. Rows include Temporary ventilation, Adhesives, sealants, and caulks, and Carpet systems.

NONRESIDENTIAL VOLUNTARY MEASURES

Table with columns: APPLICATION CHECKLIST FOR BSC, MANDATORY, CALGreen Tier 1, CALGreen Tier 2. Rows include Indoor moisture control, Indoor air quality, Environmental control, and Outdoor air quality.



COUNTY OF SAN LUIS OBISPO DEPARTMENT OF GENERAL SERVICES 907 SANTA ROSA STREET SAN LUIS OBISPO, CA 93408 PHONE: 805/7652000



REGISTERED ARCHITECT ROBERT ALLEN BENTLEY 10000 S. GARDEN STREET SUITE 100 SAN LUIS OBISPO, CA 93426 PHONE: 805/7652000 FAX: 805/7652000



Table with columns: No., Revision, Date. Rows include PLANCHHECK REV1 (9.26.12), PLANCHHECK REV2 (10.24.12), PLANCHHECK REV3 (11.19.12).

County Facility: ATASCADERO LIBRARY RENOVATION 6555 CAPISTRANO AVE. ATASCADERO CA 93422

Project Manager: M. DEMARTINI Checked By: MD Client Approval: Date: 08/20/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title: ATASCADERO LIBRARY RENOVATION 6555 CAPISTRANO AVE ATASCADERO CA 93422 Sheet Title: CBSC COMPLIANCE DOCUMENTATION

Sheet Number: A84 of 417 Sheets PROJECT No. 417 FILE No.

Atascadero Library Renovation

5855 Capistrano Ave Atascadero, CA 93422

COUNTY OF
SAN LUIS OBISPO
DEPARTMENT OF
GENERAL SERVICES

1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA 93408
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ARCHITECT
Ashley Vance
ENGINEERING, INC.
1087 Santa Rosa Street
San Luis Obispo, CA 93408
(805) 781-4154



Revision	Date
1	PLAN CHECK REV 1 9.26.12
2	PLAN CHECK REV 2 10.24.12
3	BID SET 11.19.12

County Facility
ATASCADERO LIBRARY RENOVATION

5855 CAPISTRANO AVE
ATASCADERO CA 93422

Project Engineer: J. DENIO
Project Mgr: T. VANCE
Client Approval: _____
Date: 08/20/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title: **ATASCADERO LIBRARY RENOVATION**
Sheet Title: **STRUCTURAL TITLE SHEET**

Sheet Number: **S-1.0**
of Sheets
PROJECT No. 448
FILE No.

STANDARD DETAILS

STD. ABBREVIATIONS

PROJECT INFORMATION

Schedule of Special Inspection

Notation Used in Table:

Column headers:
C Indicates continuous inspection is required.
P Indicates periodic inspections are required. The notes and/or contract documents should clarify.

Box entries:
X Is placed in the appropriate column to denote either "C" continuous or "P" periodic inspections.
--- Denotes an activity that is either a one-time activity or one whose frequency is defined in some other manner.

Additional detail regarding inspections and tests are provided in the project specifications or notes on the drawings.

Verification and Inspection	C	P	Notes
1704.2.1 - Inspect fabricator's fabrication and quality control procedures.	---	---	
Table 1704.3 - Steel			
1. Material verification of high-strength bolts, nuts, and washers.			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.		X	
b. Manufacturer's certificate of compliance required.		X	
3. Material verification of structural steel:			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.		---	
b. Manufacturer's mill test reports.		---	
4. Material verification of weld filler materials:			
a. Identification markings to conform to AWS designation listed in the WPS.		---	
b. Manufacturer's certificate of compliance required.		---	
5. Inspection of welding:			
a. Structural steel			
1) Complete and partial penetration groove welds.	X		
2) Multipass fillet welds.	X		
3) Single-pass fillet welds > 5/16".	X		
4) Single-pass fillet welds ≤ 5/16".		X	
5) Floor and roof deck welds.		X	
b. Reinforcing steel			
2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls, and shear reinforcement.	X		
6. Inspection of steel frame joint details for compliance with approved construction documents:			
a. Details such as bracing and stiffening.			
b. Member locations.			
c. Application of joint details at each connection.			
1704.3 - Welding of stairs and railing systems.		X	
1704.6.1 - Inspect high-load diaphragms.			
1. Verify grade and thickness of sheathing.	---	---	
2. Verify nominal size of framing members at adjoining panel edges.	---	---	
3. Verify:			
a. Nail or staple diameter and length.			
b. Number of fastener lines.			
c. Spacing between fasteners in each line and at edge margins.			
Table 1704.7 - Inspection of Soils			
1. Verify materials below footings are adequate to achieve the desired bearing capacity.		X	
2. Verify excavations are extended to proper depth and have reached proper material.		X	
3. Perform classification and testing of controlled fill materials.		X	
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of controlled fill.	X		
5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.		X	
1705.3 - Seismic Resistance			
1705.3 [4.3] - Suspended ceiling systems and their anchorage.			
Special Inspections for Seismic Resistance			
1707.2 - Special inspection for welding in accordance with AISC 341.	X		
1707.3 - Structural Wood			
2. Inspect nailing, bolting, anchoring, and other fastening of components within the seismic-force-resisting system, including:		X	
a. wood shear walls,			
b. wood diaphragms,			
c. drag struts, braces,			
d. shear panels,			
e. hold-downs.			
1707.6 - Anchorage of storage racks and access floors 8 feet or greater in height.	X		

CONTRACTOR'S STATEMENT

Each Contractor responsible for the construction of a main wind or seismic force resisting system or a wind or seismic resisting component listed in the statement of special inspections shall submit a written statement of responsibility to the building official and the owner prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain the following:

- (1) Acknowledgement of awareness of the special requirements contained in the statement of special inspections accordance to Section 1701, 1704, 1705 and 1707 of the current adopted California Building Code (CBC), the owner is required to hire an independent testing/inspection agency to perform required special inspections.
- (2) Acknowledgement that control will be exercised to obtain conformance with the construction documents approved by the building official.
- (3) Procedures for exercising control within the contractor's organization, the method and frequency of reporting and distribution of the reports.
- (4) Identification and qualification of the person(s) exercising such control and their position(s) in the organization.

Structural Observation Program

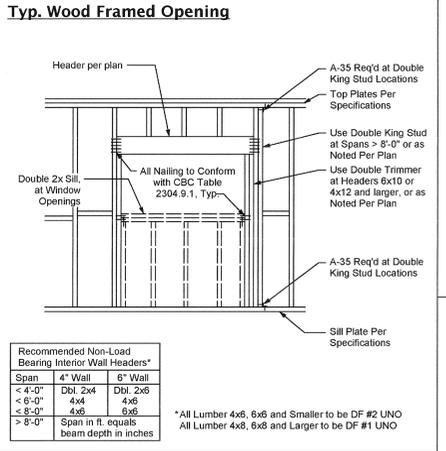
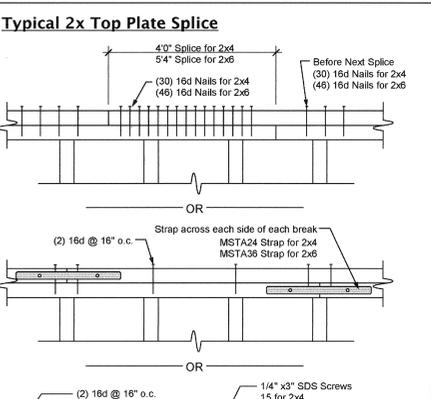
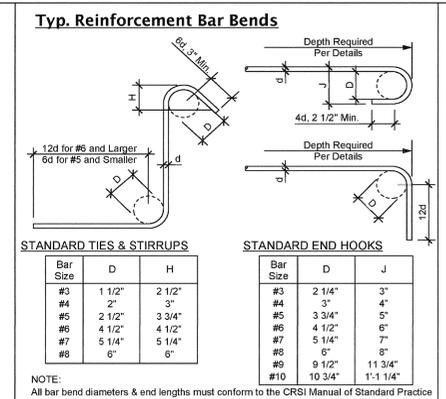
The Owner shall employ the Engineer or Architect registered/licensed in the State of California who is responsible for the structural design to perform structural observation.

The Engineer or Architect responsible for Structural Observation, the Contractor, and appropriate Subcontractors shall hold a pre-construction meeting to review the details of the structural system to be observed.

Observation:	Notes:
Concrete Footings	Widths and configurations of footing trenches; location of rebar prior to concrete pour
Wood Shear Walls, Diaphragms & Lateral Connections	Prior to cover
Steel Moment Frame	Prior to cover
Completed Framing	Prior to cover

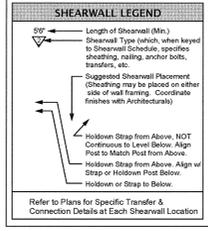
*Additional observations may be required at the discretion of the Building Official.

At the conclusion of the work included in the permit, the structural observer shall submit a written statement to the Building Official, verifying that the site visits have been made and identify any reported deficiencies that, to the best of the structural observer's knowledge, have not been resolved.



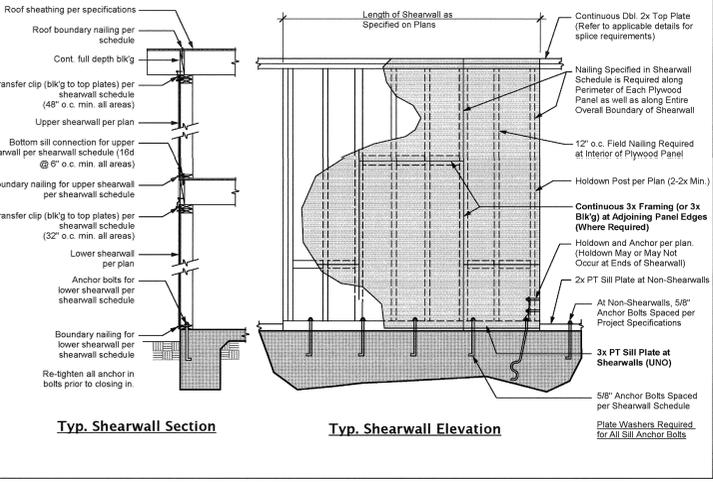
SHEARWALL NOTES:

- Single sided shearwalls may be placed on EITHER side of wall panel.
- Sill plates on masonry or concrete to be pressure treated per schedule. All sill plates on concrete or masonry to be 3x members UNO. (Sill plates on wood framing for one-sided upper-level shearwalls may be 2x members.)
- Wall studs and blocking at adjoining panel edges to be per schedule.
- Where plywood is applied on both faces of a wall, edge nails shall be staggered on adjacent panel edges OR panel joints shall be offset to fall on different framing members. Plywood joint and sill plate nailing shall be staggered in all cases.
- Plywood panels shall butt along centerlines of framing members. Minimum plywood dimension for shearwall shall be 12".
- Nails shall have min. 2" edge distance.
- The use of pneumatic nail guns for shearwall nailing is subject to continued satisfactory jobsite performance and is subject to review and approval by the Engineer of Record and/or the Bldg. Inspector. If the nail head penetrate the outer ply more than would be normal for a hand held hammer, or if the minimum edge distances are not maintained, the performance will be deemed unsatisfactory and the continued use of pneumatic nail guns for shearwall nailing will not be permitted.
- At all bearing walls (exterior and interior walls) not noted as shearwalls, continuous full depth blocking shall be provided between joists and rafters with LTP4 or A35 to top plates @ 32" o.c. at floor and 48" o.c. at roof conditions UNO per plan & Refer to Project Specifications for additional framing requirements.



SHEARWALL SCHEDULE

No.	DESCRIPTION	WALLING	TRANSFERS	ANCHORS	STRIPS	STRIPS	STRIPS	STRIPS	STRIPS	
1	1532' CDX PLYWOOD	N	2x	10d	6"	48"	16"	22"	27"	5"
2	1532' CDX PLYWOOD	N	3x	10d	4"	36"	10"	16"	16"	-
3	1532' CDX PLYWOOD	N	3x	10d	3"	36"	8"	12"	14"	-
4	1532' CDX PLYWOOD	N	3x	10d	2"	28"	6"	8"	10"	-
5	1532' CDX PLYWOOD	Y	3x	10d	4"	24"	5"	8"	8"	-
6	1532' CDX PLYWOOD	Y	3x	10d	3"	18"	4"	6"	6"	-



GENERAL NOTES

- 1. The following notes, details, schedules & specifications shall apply to all phases of this project unless specifically noted otherwise. Notes and details on the structural plans shall take precedence over general notes and typical details. Where no details are given, construction shall be as shown for similar work.
2. All drawings are considered to be part of the contract documents. The Contractor shall be responsible for the review and coordination of all drawings and specifications prior to the start of construction. Any discrepancies shall be brought to the attention of the Engineer prior to the start of construction so that a clarification can be issued. Any work performed in conflict with the contract documents or any applicable code requirements shall be corrected by the Contractor at the expense of the Owner or Engineer.
3. All information on existing conditions shown on the structural plans is based on best present knowledge available, but without guarantee of accuracy. The Contractor shall be responsible for the verifications of all dimension and conditions at the site. Any discrepancies between actual site conditions and information shown on the drawings or in the specifications shall be brought to the attention of the Engineer prior to the start of construction.
4. Refer to the Architectural plans for the following:
(a) Dimensions
(b) Size and location of all interior and exterior wall locations.
(c) Size and location of all floor, roof and wall openings
(d) Location of all doors, slopes, depressions, steps, etc.
(e) Specification of all finishes & waterproofing
(f) All other non-structural elements
5. Refer to the mechanical, electrical and plumbing plans for the following:
(a) Size and location of all equipment
(b) Pipe runs, sleeves, hangers and trenches
(c) All other mechanical, electrical or plumbing related elements
6. Do not scale structural plans. Contractor shall use all written dimensions on Architectural plans.
7. Construction materials shall be uniformly spread out if placed on floor or roof so as to not overload the framing. Loads shall not exceed the design live load per square foot. It is the Contractor's responsibility to provide adequate shoring and bracing as required.
8. Specifications and detailing of all waterproofing and drainage items, while sometimes shown on the structural plans for general information purposes only, are solely the design responsibility of others.
9. The Engineer will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction delineated by these plans. It should be understood that the Contractor or his/her agents shall supervise and direct all work and be fully and completely responsible for all construction means, methods, techniques, sequences, procedures and conditions on the job site, including safety of all persons and property during the entire period of construction. Periodic observations by the Engineer, his staff or representatives are not intended to include verification of dimensions or review the adequacy of the Contractor's safety measures on or near the construction site.
10. Modifications of the plans, notes, details and specifications shall not be permitted without prior approval from the Engineer.
11. All workmanship shall conform to the best practice prevailing in the various trades performing the work. The Contractor shall be responsible for coordinating the work of all trades.
12. It is the Contractor's responsibility to ensure that only approved structural plans are used during the course of construction. The use of unapproved documents shall be at the contractor's own risk. Conditions of all work based on such documents shall be performed at the Contractor's expense.
13. These plans and specifications represent the structural design only. No information nor warranty is provided for the work of any other Consultant (Architect, Mechanical, Electrical, etc.). This includes, but is not limited to, waterproofing, drainage, ventilation, accessibility, or dimensions.

FOUNDATIONS

- 1. Refer to Structural Design Parameters section on sheet S-1.0 for all soil design values used in calculations.
2. Soils values per geotechnical report (or "soils report") by Buena Geotechnical, Inc. Project No. B-043892, dated February 11, 2004. This report and all recommendations contained therein are to be considered a part of these plans.
3. It is the Contractor's responsibility to obtain a copy of the soils report from the Owner. A copy of the soils report shall be on the job site during the course of construction.
4. Unexpected Soil Conditions: Adverse values and subsequent foundation designs are based on soil conditions which are shown by test borings. Actual soil conditions which deviate appreciably from that shown in the test borings shall be reported to the Engineer immediately.
5. All construction, fill, backfilling and site preparation shall be performed in accordance with project soils report or CBC Chapter 18 and Appendix J. All such work shall be performed under the supervision of the project soils engineer.
6. Excavate to required depths and dimensions (as indicated in the drawings), cut square and smooth with firm level boards. Care shall be taken not to over-excavate foundation at lower elevation and prevent disturbance of soils around high elevations.
7. Foundations shall be poured in neat excavations.
8. Excavate all foundations to required depths into compacted fill or natural soil (as per plans and details) and as verified by the building official and/or soils engineer.
9. All foundations shall be inspected and approved by the appropriate building official and/or a representative of the soils engineer prior to forming and placement of reinforcing concrete.
10. Foundations shall not be poured until all required reinforcing steel, framing hardware, sleeves, inserts, conduits, pipes, etc. and formwork is properly placed and inspected by the appropriate building official/inspector(s).
11. It is the responsibility of the contractor in charge of framing to properly position all hollow bolts, anchor bolts, column bases, and all other cast-in-place hardware. Refer to typical details. All hardware to be secured prior to foundation inspections.
12. The sides and bottoms of dry excavations must be maintained just prior to placing concrete; Conversely, de-water footings as required to remove standing water and to maintain optimum working conditions.
13. The Contractor shall be solely responsible for all excavation procedures including lagging, shoring, and the protection of adjacent property, structures, streets, and utilities in accordance with all federal, state and local safety ordinances. The Contractor shall provide for the design and installation of all cribbing, bracing and shoring required.

CONCRETE

- 1. All concrete shall have:
(a) an ultimate compressive strength (F'c) of 3000 psi at 28 days (UNO).
(b) a maximum slump of 5" at point of placement.
(c) a minimum rate of 55 or less for all slabs, walls, and columns, and 0.60 or less for all foundations.
(d) a normal dry-weight density (UNO).
2. Special inspection is NOT required, except where specified herein, on the structural plans, or by the Building Department.
As a minimum, special inspection is always required on:
(a) structural slabs, flat plates
(b) walls, columns, beams
(c) piers, caissons
(d) widening or reinforcement, installation of mechanical bar splice devices, epoxy applications
When required or specified, special inspection services shall conform to CBC Chapter 17 and shall be provided by an ICC certified Inspector or Building Department approved engineer.
The Building Department reserves the right to waive or require the special inspection requirements [CBC 1704.1 and 1704.4]. Nothing in these plans waives the Building Department right to require special inspection at any point and on any material.
3. Testing of materials used in concrete construction must be performed as noted on structural plans or at the request of the Building Department to determine if materials are quality specified. Tests of materials and of concrete shall be made by an approved agency and at the expense of the contractor, such tests shall be in accordance with the standards listed in CBC Table 1704.4.
When testing of concrete is required, four (4) test cylinders shall be taken from each 150 yards, or fraction thereof, poured in any one day. One (1) cylinder shall be tested at seven (7) days, two (2) at 28 days, one (1) shall be held in reserve. If the Contractor elects to have additional tests performed for "early break" results, additional test cylinders must be taken. At no time shall the Contractor neglect the testing agency to perform tests on a schedule different than shown without the prior authorization of the Engineer.
Contractor is responsible for complying with applicable testing requirements of the Building Department. Copies of all test reports shall be provided to Engineer and Building Department for review in a timely manner.
4. The Contractor shall remove and replace any concrete which fails to attain specified 28 day compressive strength if so directed by the Engineer. Any defects in the hardened concrete shall be repaired to the satisfaction of the Engineer and/or Architect or the hardened concrete shall be replaced at the Contractor's expense.
5. All concrete work shall conform with CBC Chapter 19.
6. All cement shall be Portland Cement Type I or II and shall conform to ASTM C 150.
7. All aggregates shall conform to ASTM C33. Maximum aggregate sizes:
(a) For slabs:
i. Maximum 1-1/2"
ii. Minimum 1/4"
(b) All other work:
i. Maximum 1"
ii. Minimum 3/4"
8. Where not specifically detailed, the minimum concrete cover on reinforcing steel shall be:
(a) Permanently exposed to earth or weather
i. Cast against form: 2"
ii. Cast against rebar: 1-1/2"
(b) Not exposed to earth or weather
i. Slabs, walls, joists: 3/4"
ii. Beams, columns, girders: 1-1/2"
9. Minimum lap splice length for all reinforcing steel shall be 40 bar diameter unless specifically noted otherwise on the structural plans and/or details. All lap splice to be staggered.
10. All anchor bolts used in concrete construction shall have a minimum total embedment as follows (UNO):
(a) 5/8" dia.: 7"
(b) 3/4" dia.: 8"
(c) 7/8" dia.: 9"
(d) 1" dia.: 9"
Overall length of anchor bolts shall be coordinated with all plate requirements as indicated elsewhere in these specifications. All anchor bolts in contact with preservative-treated wood shall be hot dipped zinc galvanized or stainless steel.
11. All reinforcing steel, anchor bolts, dowels, inserts, and any other hardware to be cast in concrete shall be well secured in position prior to foundation inspection. All hardware to be installed in accordance with respective manufacturer's specifications. Refer to architectural and structural plans for locations of embedded items.
12. Locations of all construction joints, other than specified on the structural plans, shall be approved by the Architect and Engineer prior to forming. Construction joints shall be thoroughly air and water cleaned and heavily roughened so as to expose coarse aggregate. All surfaces to receive fresh concrete shall be maintained continuously wet at least three (3) hours in advance of concrete placement.
Unless specifically detailed or otherwise noted, construction and control joints shall be provided in all concrete slabs-on-grade. Joints shall be located such that the area does not exceed 400 sq. feet.
13. The Architect, Engineer and appropriate inspectors shall be notified in a timely manner for a reinforcement inspection prior to the placement of any concrete.
14. The Contractor shall obtain approval from the Architect and the Engineer prior to placing sleeves, pipes, ducts, chases, cutting and opening on or through structural concrete beams, walls, floors, and roof slabs unless specifically detailed or noted on the plans. All pipes or conduits passing through concrete members shall be sleeved with standard steel pipe sections.
15. The Contractor is responsible for design, installation, maintenance and removal of all formwork. Forms shall be properly constructed, sufficiently tight to prevent leakage, sufficiently strong, and braced to maintain their shape and alignment until no longer needed for concrete support. Joints in formwork shall be tightly fitted and blocked, and shall provide a finished concrete surface that is true and free from blemishes. Forms for exposed concrete shall be pre-approved by the Architect to ensure conformance with design intent.
16. Remove form work in accordance with the following schedule:
(a) Forms at slab edge: 1 day
(b) Side forms at footings: 2 days
(c) All other vertical surfaces: 7 days
(d) Beams, columns, girders: 10 days
(e) Elevated slabs: 28 days
Engineer reserves the right to modify removal schedule above based on field observations, concrete conditions, and/or concrete test results.
17. All concrete (except slabs-on-grade 0' or less) shall be mechanically vibrated as it is placed. Vibrator to be operated by experienced personnel. The vibrator shall be used to consolidate the concrete. The vibrator shall not be used to convey concrete, nor shall it be placed on reinforcing and/or forms.
18. Concrete shall be maintained in a moist condition for a minimum of five (5) days after placement.
19. Concrete shall not be permitted to free fall more than six (6) feet. For heights greater than six (6) feet, use tremie, pump or other method consistent with applicable standards.
20. When specified ultimate compressive strength is greater than 2500 psi, Contractor shall submit mix designs to Architect and Engineer for approval seven (7) days prior to placement. Mix designs shall be prepared by an approved testing laboratory. Sufficient data must be provided for all admixtures.
21. Refer to Architectural plans for locations of all dimensions, slab depressions, slopes, drains, curbs, and control joints.
REINFORCEMENT
1. Reinforcing steel shall be to deformed, clean, free of rust, grease or any other material likely to impair concrete bond.
2. All bars shall conform to ASTM A615, Grade 60 minimum (UNO on structural plans), except that #3 & #4 bars may be Grade 40. All cold wire fabric (WVF) shall conform to ASTM A185.
3. Reinforcing steel that is to be welded shall conform to ASTM A706. All welding of reinforcement shall be subject to special inspection.
4. Contractor shall take necessary steps (standard ties, anchorage devices, etc.) to secure all reinforcing steel in their true position and prevent displacement during concrete placement.
5. Fabrication, placement and installation of reinforcing steel shall conform to:
(a) Concrete Reinforcing Steel Institute (CRSI) Manual of Standard Practice
(b) CRSI Section 1907.
6. Shop drawings for fabrication of reinforcing steel shall be approved by the Contractor and submitted to the Architect and Engineer for review and approval prior to fabrication. Shop drawings are not required for slabs-on-grade or foundations unless specifically noted on the structural plans.
7. Healing of reinforcing steel as to bending and shoring of bars is not permitted. All bends in reinforcing steel are to be made cold. All bend radii shall conform to CRSI Manual of Standard Practice.
8. Refer to Concrete and Masonry notes for specific minimum splice length and splice staggering requirements. Lap welded wire fabric (WVF) reinforcement two (2) modules minimum (UNO). All splices are to be staggered.

STRUCTURAL STEEL

- 1. All structural steel and connections shall be fabricated and erected in accordance with AISC specifications, Seismic Provisions Supplements No. 1 and 2, and Code of Standard Practice as amended to date.
2. Steel fabrication shop drawings shall be submitted for review by the Architect and Engineer prior to fabrication.
3. Special Inspection: Continuous special inspection of structural welding is required by an inspector pre-qualified by the Building Department. The following exceptions are permitted for welds not in Special Moment-Resisting Frames:
(a) Welding performed in an approved fabricator's shop in accordance with 2010 CBC Section 1704.2.
(b) The inspector need not be continuously present during welding of the following items, provided the materials, welding procedures, and welders qualifications are verified prior to the start of work. Periodic inspections are made of work in progress, and visual inspection of all completed welds is made prior to shipment:
i. Single pass fillet welds not exceeding 5/16"
ii. Floor and roof steel deck welding
iii. Welded studs (for nails, diaphragms or composite deck systems)
iv. Welded light gauge cold-formed framing members (channels, joists, etc.)
v. Welding of stairs and railing systems.
4. Testing Procedures: All complete joint penetration welds (aka full penetration, FP, or CJP) groove and butt welded joints and splices in Special Moment-Resisting Frames shall be tested 100 percent in accordance with AISC Seismic Part 1, Section 16 by either ultrasonic testing (UT) or radiography (r-ray). The following exceptions are permitted:
(a) Ultrasonic or radiographic testing is not required for all complete joint penetration welds on material less than 5/16" thick, continuous visual inspection is required.
(b) At the discretion of the Building Official, the ultrasonic or radiographic testing rate for an individual welder may be reduced to 25% provided the reject rate is no more than 5% for all welds tested for that individual welder.
(c) At the discretion of the Building Official, the ultrasonic or radiographic testing may be performed in the shop of an approved fabricator by a qualified inspector of his employ.
(d) It is the responsibility of the Contractor to verify all the testing requirements of the local Building Department as the requirements vary with each governing agency.
The testing procedures outlined above apply to those complete joint penetration welds specified in Special Moment-Resisting Frames only. Ordinary Moment-Resisting Frames are exempt.
5. Materials:
(a) Wideflange (or "W") section frames shall conform to either ASTM A572 Gr. 50 or ASTM A992 except in moment frames.
(b) Wideflange sections in moment frames shall conform to ASTM A992.
(c) Tube sections ("T" or "HSS") shall conform to ASTM A500 Gr. B.
(d) Pipe sections shall be welded seamless pipe conforming to ASTM A53 Gr. B or ASTM A501.
i. STD indicates Standard Wall
ii. DXT indicates Extra Strong
iii. DBL indicates Double Extra Strong
(e) All other material (plate, bars, etc.) shall conform to ASTM A36 unless specifically noted otherwise.
(f) All plate material specified in steel moment frame connections shall conform to ASTM A57 Gr. 50 or ASTM A992.
6. Bolts:
(a) All bolts shall be ASTM A307 unless specifically noted otherwise on the structural plans.
(b) High strength bolts conforming with ASTM A325 and A490, when specified, shall require special inspection in accordance with CBC Section 1704.3.3.
(c) Threaded rod, where specified, shall conform with ASTM A307 unless specifically noted otherwise on the structural plans.
(d) Bolt holes shall be drilled 1/32" to 1/16" larger than the specified bolt diameter.
7. Welding:
(a) All welding shall be performed using SMAW, GMAW or FCAW processes.
(b) All welded connections to be welded in accordance with the latest edition of the AWS D.1.
(c) All welding shall be performed by certified welders.
(d) All welding shall be performed with E70XX electrodes with a minimum CVN toughness of 20 J @ 0°F.
(e) Weld lengths specified on the plans are the net effective length required. Where fillet weld symbol is given without indication of size, use the minimum size welds as specified in section 1.17.2 of the AISC Manual of Steel Construction 9th Edition.
(f) No field welding shall be permitted unless specifically noted on the plans or details.
8. No holes other than those specifically detailed shall be allowed through structural steel members. Boring or torching of holes is not permitted under any circumstances.
9. All structural steel shall be painted one shop coat and touch-up in the field with red lead (or approved zinc chromate primer) as necessary.
10. Any steel member interfacing with wood framing shall have 1/2" diameter studs welded at 24" o.c. for attachment of wood nailers. Three bolting of nailers shall not be permitted unless specifically noted on the plans or details.
11. Provide hot dip galvanizing or 3" minimum concrete cover around all structural steel below grade.

TIMBER / LUMBER

- 1. All structural lumber shall be Douglas Fir-Larch, S4S and shall conform to CBC Section 2303.1.
2. The minimum lumber grade of each member shall be as follows (unless specifically noted otherwise on plans and details):
(a) 2x studs, blocking, plates: Stud
(b) 2x joists: #2 or better
(c) 4x4 or larger beams or posts: #1 or better
It is recommended (but not required) that all exposed members be Select Structural or better and free of heat center due to visual characteristics.
3. All lumber in contact with concrete or masonry shall be Redwood or pressure treated Douglas Fir. Whenever it is necessary to cut, notch, bore or splice pressure treated material, all newly cut surfaces shall be thoroughly painted with the same preservative.
4. Maximum moisture content for all structural members shall not exceed 19%.
5. All plywood sheathing shall be CDX grade (or better), Douglas Fir with exterior glue. All sheathing shall conform to CBC Section 2303.2 and grade marked by the Plywood Association (APA). Panel index to be 4020 for roofs and 240 for roofs unless specifically noted otherwise on the plans and details.

FASTENERS

- 1. Nails:
(a) shall be with "common" nails unless noted otherwise.
(b) shall not be driven closer than 1/2 their length nor closer than 1/4 of their length to the edge or end of a member, except for sheathing.
(c) shall be installed in pre-drilled holes if necessary to avoid splitting.
(d) in contact with preservative-treated wood shall be hot dipped zinc galvanized or stainless steel.
(e) shall conform to 2010 CBC Table 2304.9.1.
2. Lag screws:
(a) shall be installed into pre-drilled lead holes. Lubricant (or soap) shall be used to facilitate installation and
(b) in contact with preservative-treated wood shall be hot dipped zinc galvanized or stainless steel.
3. Bolts:
(a) shall conform to ASTM A307 unless specifically noted otherwise on plans and details.
(b) shall be installed in pre-drilled holes a maximum of 1/16" larger than the specified bolt diameter.
(c) when installed against wood surfaces, shall have standard washers under the heads and nuts.
(d) in contact with preservative-treated wood shall be hot dipped zinc galvanized or stainless steel.
4. Anchor Bolts:
(a) shall be 5/8" diameter with 3x3/8 23P steel plate washers at shearwalls.
(b) shall be 5/8" diameter with 2x2x1/8" steel plate washers at non-shearwalls.
(c) shall have 7" minimum embedment. (Contractor to coordinate length of bolts with all plate thicknesses)
(d) shall conform to ASTM A307.
(e) shall be hot dipped zinc galvanized or stainless steel.
(f) shall not be spaced greater than 72" o.c. Refer to shearnail schedule for specific anchor bolt spacing requirements.
(g) shall be placed a maximum of 12" from wall corners, wall ends, and sill plate splices (but not less than 7 diameters), and a minimum of 6" from the edge of all plate is required.
(h) shall be secured in place prior to foundation inspection.
ROUGH CARPENTRY
1. Refer to 2010 CBC Table 2304.9.1 for all minimum nailing requirements.
2. Refer to individual sections for applicable material specifications.
3. Fabricate, size, install, connect, fasten, bore, notch, and cut wood and plywood with joints true, tight, and well-nailed, screwed or bolted as required, all members to have solid bearing without being shored, unless noted otherwise. Set horizontal members subject to bending with the crown up. Install framing plumb, square, true and cut for full bearing. Splices are not permitted between bearings. Use full lengths unless otherwise specified.
4. Metal framing angles, anchor, clips, straps, lvs, holdovers, etc. shall be manufactured by Simpson Strong-Tie Co. No substitutions shall be permitted without prior approval of the Engineer.
5. All walls are to have continuous double 2x top plates spliced as follows unless specifically noted otherwise on the plans and details.
6. Wall Studs:
(a) Unless specifically noted on the plans and details, use the following guidelines for wall framing:
i. Use 2x4 studs at 16" o.c. for walls less than 9'-0" tall.
ii. Walls 9'-0" to 16'-0" tall shall be constructed of 2x6 studs at 16" o.c.
iii. Repeat specifically engineered wall details for walls greater than 16'-0" tall.
7. Blocking:
(a) Provide min. one row of nominal 2" thick blocking of same width as stud, fitted snugly and spiked into studs at mid-height of partitions or walls over eight feet high.
(b) All cripple walls (or "pony walls") less than 14" in height shall be solid blocking.
(c) Refer to shearnail section for additional blocking requirements.
8. Notching:
(a) Is not permitted of any structural member without prior approval.
(b) In exterior and bearing walls, notches shall not exceed 25% of the stud depth.
(c) Non-bearing partition walls, notches shall not exceed 40% of the stud depth.
(d) Successive notches in the same member shall be spaced a minimum of 18" apart.
9. Boring:
(a) Is not permitted of any structural member without prior approval.
(b) In exterior and bearing walls, holes shall not exceed 30% of the stud depth.
(c) Non-bearing partition walls, shall may be drilled not greater than 60% of the stud depth.
(d) Successive notches in the same member shall be spaced a minimum of 18" apart.
10. Beating:
(a) Provide a minimum of 1 1/2" of bearing for all 2x joists and all 4x10 / 6x6 headers & smaller.
(b) Provide a minimum of 3" of bearing for all beams and headers 4x12 / 6x10 & larger, unless noted otherwise on plans.
(c) Members bearing on prefabricated hangers are to have full bearing and nailing per manufacturer's specifications.
11. Posts:
(a) Posts inside walls shall bear on sill plates and shall be continuous between top and bottom plates, unless specifically noted otherwise.
(b) Provide posts under all beams, girders or double joists equal to the width of the supported member.
(c) Posts on upper levels are to be stacked on posts of equal size at levels below, unless a larger post is specified on the plans.
(d) Vertical blocking ("squash blocks") shall be used to fully transfer the post area through floors to foundation. Vertical blocking shall be equal to floor thickness plus 1/16".
(e) Headers framing into continuous posts without trimmer studs shall be supported in Simpson HUC hangers unless noted otherwise on the plans.
(f) Posts when isolated, shall be seated in Simpson post or column bases, unless noted otherwise on the plans.
12. Roof Framing:
(a) Provide wood joists, as specified, laid with the crown up and spaced as indicated.
(b) Provide a minimum of 1 1/2" of bearing unless otherwise shown.
(c) Provide full depth solid 2x blocking or cross-briding between the joists at 8'-0" o.c. max.
(d) Provide all critical framing required to achieve positive drainage per Architecturals.
(e) Install plywood panels with the face grain across the framing and close joints and nail at each support. Fully nail with common nails per the plans.
(f) Provide Simpson "PSSC1" clips at all plywood joints perpendicular to framing. Provide clips midway between framing members at the unsupported edges of plywood when members are spaced at 24" o.c. or greater. If clips are not used, provide solid blocking for joints perpendicular to framing.
13. Floor Framing:
(a) Provide wood joists, as specified, laid with the crown up and spaced as indicated.
(b) Provide a minimum of 1 1/2" of bearing unless otherwise shown.
(c) Provide full depth solid 2x blocking or cross-briding between the joists at 8'-0" o.c. max. For floors framed with joists, refer to the manufacturer's specifications for blocking requirements.
(d) Provide full depth solid 2x blocking between the joists under all walls and partitions where the wall or partition is perpendicular to the floor framing (including floors framed with joists).
(e) Install 3/4" plywood sheathing with the face grain across supports, and supports staggered and the edges of sheets centered over supports. If T&G plywood is not used, provide blocking at all plywood edges. Glue to joists and fully nail with common nails per the plans.
14. Shearwalls:
(a) Refer to plans for all shearwall locations, length type and nailing.
(b) Refer to Shearnail Schedule on title sheet for additional information.
(c) Shearnail lengths specified on plans are minimum required.
(d) Shearwalls to be nailed with common nails. All nails to have minimum 3/8" edge distance to panel or framing member.
(e) If 3x framing is required, stagger edge nailing. 3x framing is required at:
i. all panel joints
ii. all sill plates on concrete or masonry
iii. all sill plates at double-side shearwalls
(f) OSB may be used in lieu of plywood.

ENGINEERED LUMBER

- 1. Glu-laminated Beams:
(a) shall be 24F-V4 for simple spans and 24F-V4R for beams with cantilevers with the following minimum properties:
i. Fb = 2400 psi
ii. Fv = 165 psi
iii. Fc = 450 psi
iv. E = 1800 ksi
(b) shall be notched, cut or drilled without prior approval from the Engineer.
(c) shall have exterior glue and weather-treatment prior to installation.
(d) shall be fabricated by an approved manufacturer. An A.I.C. Certificate of Compliance shall be given to the building inspector prior to installation.
(e) shall have factory standard cambr, except where noted otherwise on the plans.
2. Laminated Veneer Lumber (LVL):
(a) shall be 1-3/4" minimum thickness with the following minimum properties:
i. E = 1900 ksi
ii. Fb = 2900 psi
iii. Fv = 285 psi
iv. Fc (parallel) = 2500 psi
v. Fc (perp.) = 750 psi
vi. Fv (perp.) = 550 psi
vii. Specific Gravity = 0.50
(b) shall be fabricated by an approved manufacturer.
(c) shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points.
(d) shall be nailed in accordance with manufacturer's specifications. Unless otherwise approved, nailing into the top edge shall not be spaced any closer than:
i. 16d @ 6"
ii. 16d @ 3"
iii. 16d @ 3"
iv. When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances.
(e) shall be, when comprised of multiple members, connected with 16d nail, 1/2" bolts or 1/4" lag screws in accordance with manufacturer's specifications.
(f) shall not be cut, notched or drilled without specific written approval of the Engineer.
3. Laminated Strand Lumber (LSL):
(a) shall be 1-3/4" minimum thickness with the following minimum properties:
i. E = 1900 ksi
ii. Fb = 2320 psi
iii. Fv = 290 psi
iv. Fc (parallel) = 2500 psi
v. Fc (perp.) = 750 psi
vi. Fv (perp.) = 2000 psi
vii. Specific Gravity = 0.50
(b) shall be fabricated by an approved manufacturer.
(c) shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points.
(d) shall be nailed in accordance with manufacturer's specifications. Unless otherwise approved, nailing into the top edge shall not be spaced any closer than:
i. 16d @ 6"
ii. 16d @ 3"
iii. 16d @ 3"
iv. When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances.
(e) shall be, when comprised of multiple members, connected with 16d nail, 1/2" bolts or 1/4" lag screws in accordance with manufacturer's specifications.
(f) shall not be cut, notched or drilled without specific written approval of the Engineer.
4. Parallel Strand Lumber (PSL):
(a) shall be 2-1/2" minimum thickness with the following minimum properties:
i. E = 2000 ksi
ii. Fb = 2900 psi
iii. Fv = 290 psi
iv. Fc (parallel) = 2500 psi
v. Fc (perp.) = 750 psi
vi. Fv (perp.) = 2000 psi
vii. Specific Gravity = 0.50
(b) shall be fabricated by an approved manufacturer.
(c) shall bear a minimum of 3-1/2" on specified supports. Provide full depth solid blocking at all bearing points.
(d) shall be nailed in accordance with manufacturer's specifications. Unless otherwise approved, nailing into the top edge shall not be spaced any closer than:
i. Narrow face: 6" for 16d common, 4" for 10d common, and 3" for 8d common
ii. Wide face: 2" for 16d common, 6" for 10d & 8d common
iii. When nailing must be reduced, stagger rows a minimum of 1/2" apart while maintaining proper edge distances.
(e) shall not be cut, notched or drilled without specific written approval of the Engineer.
5. Plywood Joists:
(a) Type and manufacturer shall be clearly noted on the plans. Substitutions shall not be permitted without prior approval of the Engineer.
(b) shall be installed in accordance with applicable code approvals and manufacturer's specifications.
(c) shall bear a minimum of 1-3/4" at end supports, and 3-1/2" at intermediate supports. Provide full depth solid blocking at all bearing points.
(d) shall be installed with intermediate blocking or bridging as specified by the manufacturer. Only omit intermediate blocking when specifically allowed by the manufacturer.
(e) shall not be cut, notched or drilled without specific written approval of the Engineer.

COUNTY OF SAN LUIS OBISPO DEPARTMENT OF GENERAL SERVICES

1087 SANTA ROSA STREET SAN LUIS OBISPO, CA 94908 PHONE 805.781.5200



ASHLEY VANCE ENGINEER IN PUBLIC WORKS 1087 SANTA ROSA STREET SAN LUIS OBISPO, CA 94908 PHONE 805.781.5200



Table with 2 columns: Revision, Date. Row 1: 1, PLAN-CHECK REV1, 9.26.12. Row 2: 2, PLAN-CHECK REV2, 10.24.12. Row 3: 3, BID SET, 11.19.12.

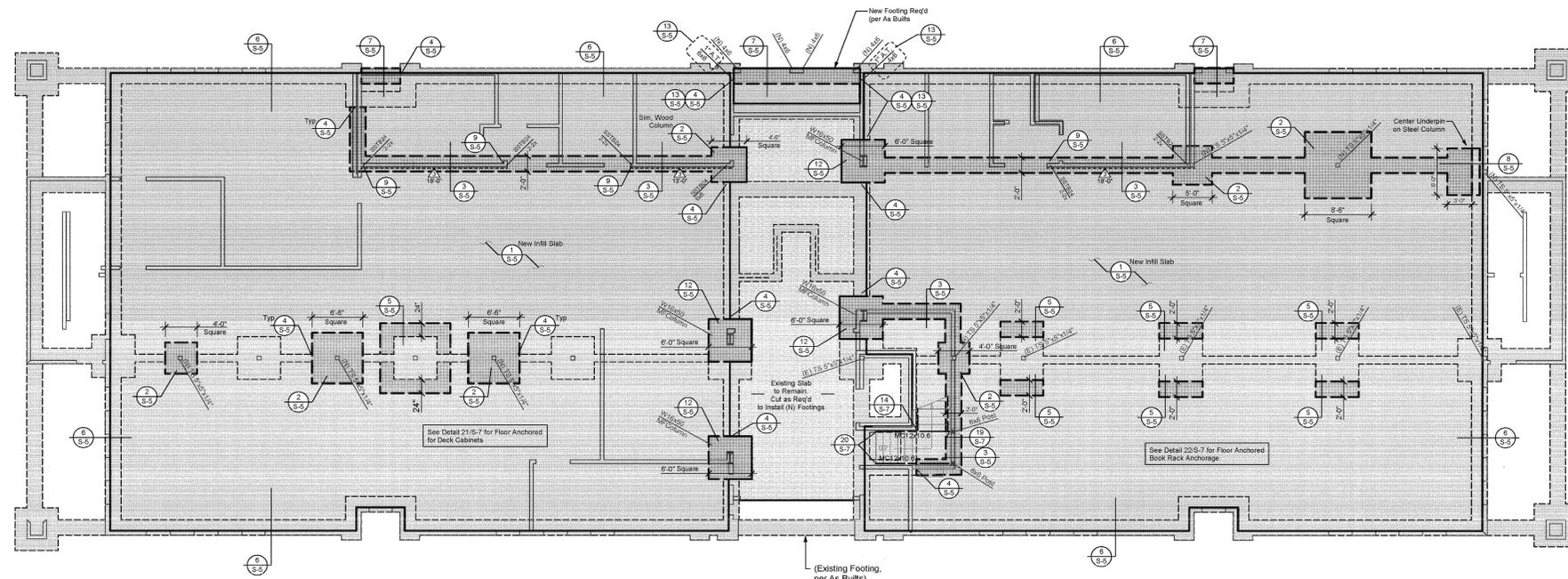
County Facility: ATASCADERO LIBRARY RENOVATION 8665 CARSTRANO AVE. ATASCADERO, CA 94522

Project Engineer: J. DENIO Project Mgr: T. VANCE Client Approval: Date: 08/20/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title: ATASCADERO LIBRARY RENOVATION Sheet Title: STRUCTURAL SPECIFICATIONS

Sheet Number S-1.1 of Sheets PROJECT No. 448 FILE No.



COUNTY OF SAN LUIS OBISPO
DEPARTMENT OF GENERAL SERVICES
1087 SANTA ROSA STREET
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ARCHITECTURE INTERIORS
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Ashtley Vance
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CIVIL & STRUCTURAL



Revision	Date
1	PLAN/CHECK REV1 9.26.12
2	PLAN/CHECK REV2 10.24.12
3	BID SET 11.19.12

County Facility:
ATASCADERO LIBRARY RENOVATION
2665 CARSTRANO AVE.
ATASCADERO, CA 95422

Project Engineer: J. DENIO
Project Mgr: T. VANCE
Client Approval:
Date: 09/20/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title:
ATASCADERO LIBRARY RENOVATION
Sheet Title:
FOUNDATION PLAN
1/8"=1'-0"

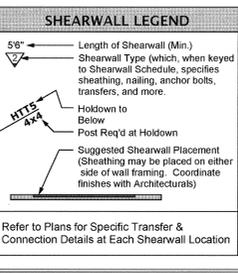
Sheet Number
S-2
of Sheets
PROJECT No. 448
FILE No.

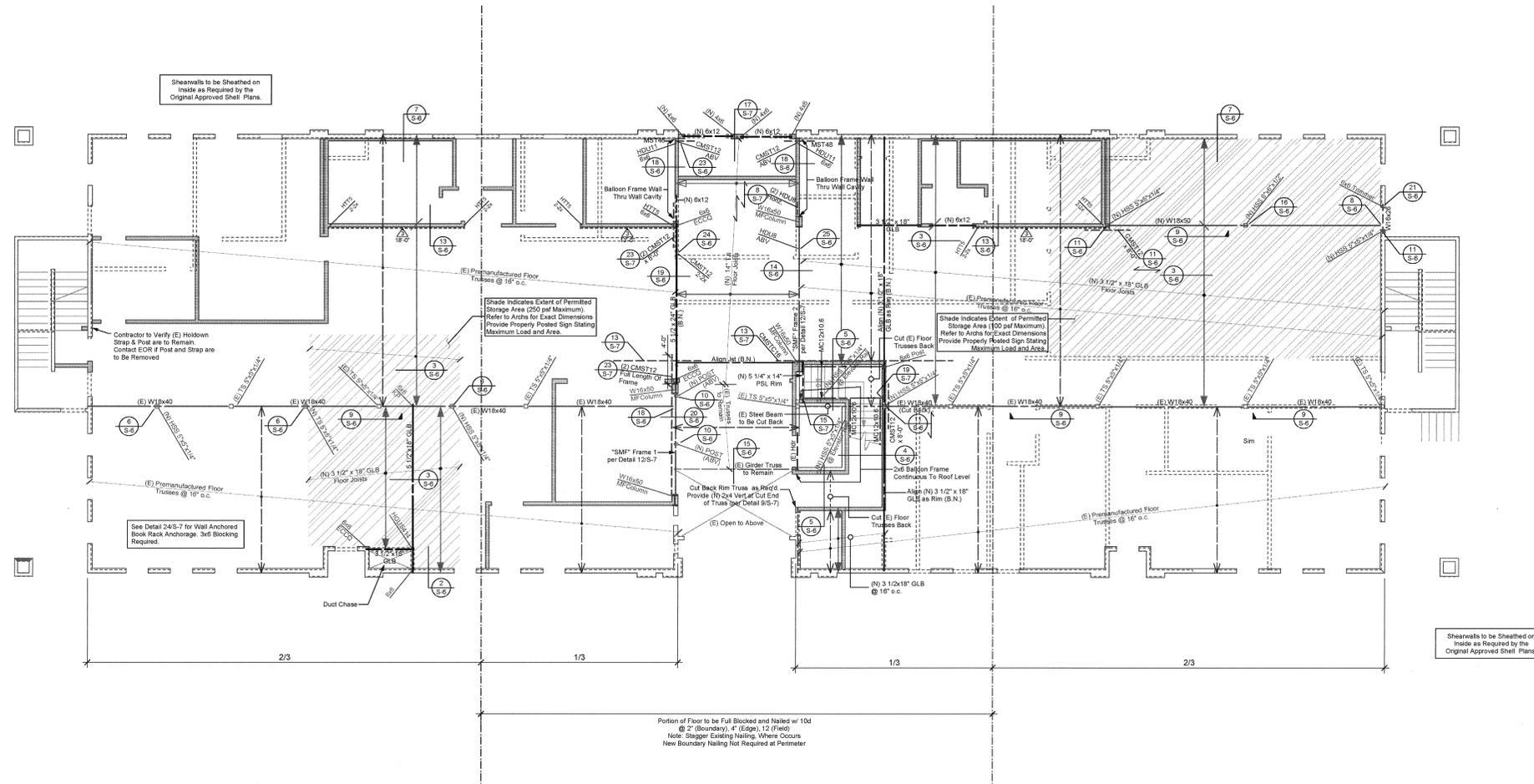
FOUNDATION SCHEDULE	
New Foundation Per Details*	
Embedment: 24" Below Existing Grade	
Reinf: (2) #4 Bars, T & B. (4 Total)	
Width: 24", UNO	
Existing Foundation Per Details	
Wood Frame Wall Above (See S-3)	
Slab On Grade Per Details	(E) Slab on Grade to Remain
* Refer to Soils Report for Req'mts	

SHEARWALL SCHEDULE		All Notes Conforming to the 2010 CBC								
No.	DESCRIPTION	2 SIDES PLATE BDRY	SIZE	SPACING	TRANSFERS ¹					
					5/8" dia ² AB	SDS ³ Screw	LTP4	A-35	16d ⁴	
1	15/32" CDX PLYWOOD	N	2x	10d	6"	48"	16"	22"	27"	5"
2	15/32" CDX PLYWOOD	N	3x	10d	4"	36"	10"	16"	18"	-
3	15/32" CDX PLYWOOD	N	3x	10d	3"	36"	8"	12"	14"	-
4	15/32" CDX PLYWOOD	N	3x	10d	2"	28"	6"	9"	10"	-
5	15/32" CDX PLYWOOD	Y	3x	10d	4"	24"	5"	8"	9"	-
6	15/32" CDX PLYWOOD	Y	3x	10d	3"	18"	4"	6"	6"	-

FOOTNOTES:
 1 All nails to be COMMONS. Do NOT use box type nails. All "field" nailing to be 12" o.c., U.N.O.
 2 All shearwalls to have 5/8" ABs with 3" x 3" x 22g thick plate washers, minimum. Slotted washers are permitted w/ standard cut washer placed between nut and plate washer.
 3 Simpson SDS 1/4" x 1/2" Screw through 2x wall, at SDS 1/4" x 1/2" Screw through 3x wall. [ICC ERS-2205]
 4 2x Sill Plate may be used if 5/8" Anchor Bolt spacing decreased to 18"
 5 Where clips are less than 8" o.c., stagger clips on each side of wall.
 6 16d common nails through the sill plate.
 7 Capacity reduced by plan irregularity factor (ASCE 12.3.3.4).
 8 2x bottom Plate permitted at raised floor locations.

GENERAL FOUNDATION NOTES
 Please see Soils Report for additional specifications and recommendations. It is the contractor's responsibility to obtain a copy of the soils report from the owner or owners representative.
 Prior to the contractor requesting a Building Department foundation inspection, the Soils Engineer shall advise the building inspector in writing that:
 a) Building pad was prepared in accordance with soils report
 b) Utility trenches have been properly backfilled and compacted, and
 c) Foundation excavations, the soil's expansive characteristics and bearing capacity conform to the soils report.
 See General Notes & Specifications for additional requirements and material specifications.
 All dimensions per Architectural plans
 Contractor to VERIFY all dimensions w/ Architectural plans PRIOR to commencement of construction.





COUNTY OF
SAN LUIS OBISPO
DEPARTMENT OF
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Revision	Date
1	PLANCHECK REV1 9.26.12
2	PLANCHECK REV2 10.24.12
3	BID SET 11.19.12

County Facility:
ATASCADERO LIBRARY RENOVATION
8885 CARSTRANS AVE.
ATASCADERO, CA 95422

Project Engineer: J. DENIO
Project Mgr: T. VANCE
Client Approval:
Date: 08/29/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

GENERAL FRAMING NOTES

Beams (per Callout)
All Beams to Bear on Plates w/ Indicated Post or Doubler Below Unless Noted Otherwise
All Lumber 4x6, 6x6 and Smaller to be DF #2 UNO
All Lumber 4x8, 6x8 and Larger to be DF #1 UNO
Floor sheathing to be 3/4" plywood or OSB, T & G, PI 40/20, glued and nailed w/ 10d commons at 6", 8", 12", OR AS NOTED ON PLAN
All Walls to have Continuous Double Top Plates.
All Splices to be per Details on Sheet S-1.1

14" TJI 560 @ 16" o.c.
in Simpson IUS Hangers. (UNO)

Existing Trusses to Remain

(N) 3 1/2" x 18" GLB @ 16" o.c.
Adjacent to Each Truss
Sister to (E) Trusses per Details

Deck waterproofing, flashing, & finish details per Architecturals.

See General Notes & Specifications for additional requirements and material specifications.

All dimensions per Architectural plans
Contractor to VERIFY all dimensions w/ Architectural plans PRIOR to commencement of construction.

WALL SCHEDULE

Stud wall sizes and locations per Architecturals.

(N) 2x Studs @ 16" o.c.
2x8 Min at all Bearing Wall
Existing Wall to Remain

Provide wall length continuous full depth solid blocking (where floor joists perpendicular) or double floor joist (where joists parallel) for all walls above.

Walls above
(shown for clarity)

Denotes step in framing.
Step per Architecturals

GENERAL FRAMING NOTES (Continued)

14" TJI 560 @ 16" o.c.
in Simpson IUS Hangers. (UNO)

Existing Trusses to Remain

(N) 3 1/2" x 18" GLB @ 16" o.c.
Adjacent to Each Truss
Sister to (E) Trusses per Details

Deck waterproofing, flashing, & finish details per Architecturals.

See General Notes & Specifications for additional requirements and material specifications.

All dimensions per Architectural plans
Contractor to VERIFY all dimensions w/ Architectural plans PRIOR to commencement of construction.

SHEARWALL SCHEDULE

All Values Unless Noted Otherwise - 2010 CBC

No.	DESCRIPTION	2 SIDES PLATE BDRY	SIZE	SPACING	TRANSFERS ⁵					
					5/8" dia ⁶ AB	SDS ⁷ Screw	LT74	A-35	10d ⁸	
1	15/32" CDX PLYWOOD	N	2x	10d	6"	48"	16"	22"	27"	5"
2	15/32" CDX PLYWOOD	N	3x ^{4A}	10d	4"	36"	10"	16"	18"	-
3	15/32" CDX PLYWOOD	N	3x ⁸	10d	3"	36"	8"	12"	14"	-
4	15/32" CDX PLYWOOD	N	3x ⁸	10d	2"	28"	6"	9"	10"	-
5	15/32" CDX PLYWOOD	Y	3x	10d	4"	24"	5"	8"	9"	-
6	15/32" CDX PLYWOOD	Y	3x	10d	3"	18"	4"	6"	6"	-

FOOTNOTES:
¹ All nails to be COMMONS. Do NOT use box type nails. All "field" nailing to be 12" o.c. U.N.O.
² All shearwalls to have 5/8" AB's with 3" x 3" x 22g thick plate washers, minimum. Slotted washers are permitted w/ standard cut washer placed between nut and plate washer.
³ Simpson SDS 18" x 4" 12" Screws through 2x 4s; or SDS 14" x 4" Screws through 3x 4s. (ICC ESR-5056)
⁴ 2x Sill Plate may be used if 5/8" Anchor Bolt Spacing decreased to 18"
⁵ Where clips are less than 6" o.c., stagger clips on each side of wall.
⁶ 16d common nails through the sill plate.
⁷ Capacity reduced by plan irregularity factor ASCE 17 3.3.4.
⁸ 2x Bottom Plate permitted at raised floor locations.

SHEARWALL LEGEND

5/8" Length of Shearwall (Min.)
Shearwall Type (which, when keyed to Shearwall Schedule, specifies sheathing, nailing, anchor bolts, transfers, and more.)

Holddown to Below
Post Req'd at Holddown

Suggested Shearwall Placement
(Sheathing may be placed on either side of wall framing. Coordinate finishes with Architecturals)

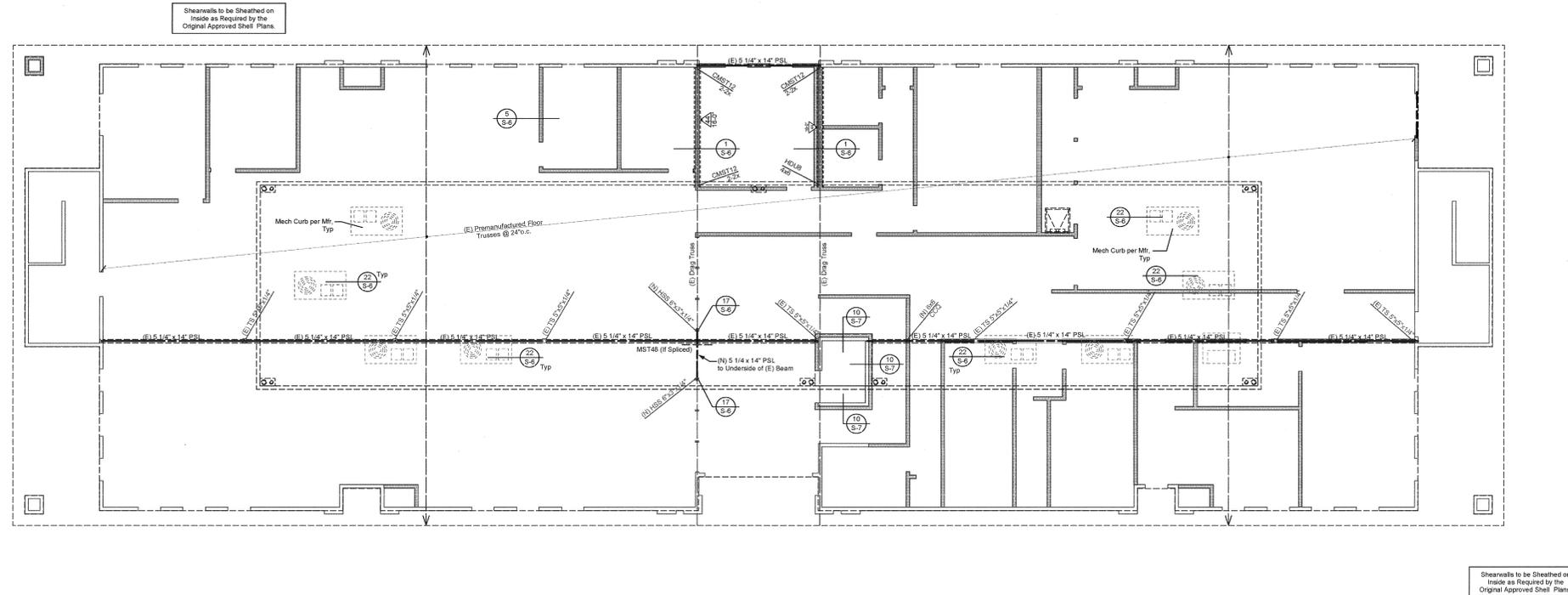
Refer to Plans for Specific Transfer & Connection Details at Each Shearwall Location

Project Title:
ATASCADERO LIBRARY RENOVATION

Sheet Title:
FLOOR FRAMING PLAN

1/8" = 1'-0"

Sheet Number
S-3
of Sheets
PROJECT No. 448
FILE No.



COUNTY OF
SAN LUIS OBISPO
DEPARTMENT OF
GENERAL SERVICES

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Revision	Date
1	PLANCHECK REV1 9.26.12
2	PLANCHECK REV2 10.24.12
3	BID SET 11.19.12

County Facility:
ATASCADERO LIBRARY RENOVATION
3555 CASTRANO AVE.
ATASCADERO CA 95422

Project Engineer: J. DENIO
Project Mgr: T. VANCE
Client Approval:
Date: 09/20/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title:
ATASCADERO LIBRARY RENOVATION
Sheet Title:
ROOF FRAMING PLAN
1/8"=1'-0"

Sheet Number
S-4
of Sheets
PROJECT No. 448
FILE No.

GENERAL ROOF FRAMING NOTES
(per call-out)
All Beams to Bear on Plates w/ Indicated Post or Doubler Below Unless Noted Otherwise
All Lumber 4x4 and Smaller to be DF #2 UNO
All Lumber 4x6 and Larger to be DF #1 UNO
All Walls to have Continuous Double Top Plates.
All Splices to be per Details on Sheet S-1.0
Stud wall sizes and locations per Architecturals.
2x Studs @ 16" o.c.
(E) Roof Trusses @ 24" o.c. To Remain
Deck waterproofing, flashing, & finish details per Architecturals.
See General Notes & Specifications for additional requirements and material specifications.
All dimensions per Architectural plans
Contractor to VERIFY all dimensions w/ Architectural plans PRIOR to commencement of construction.

SHEARWALL LEGEND
5'8" ← Length of Shearwall (Min.)
Shearwall Type (which, when keyed to Shearwall Schedule, specifies sheathing, nailing, anchor bolts, transfers, and more.)
HTS 4x4 Holddown to Below Post Req'd at Holddown
Suggested Shearwall Placement (Sheathing may be placed on either side of wall framing. Coordinate finishes with Architecturals)
Refer to Plans for Specific Transfer & Connection Details at Each Shearwall Location

SHEARWALL SCHEDULE All Values Conforming to 2010 CBC

No.	DESCRIPTION	2 SIDES PLATE/BDRY	SIZE	SPACING	TRANSFERS ¹					
					5/8" dia ² AB Screw	SDS ³ Screw	LTP4	A-35	106 ⁴	
1	15/32" CDX PLYWOOD	N	2x	10d	6"	48"	16"	22"	27"	5"
2	15/32" CDX PLYWOOD	N	3x	10d	4"	36"	10"	16"	16"	-
3	15/32" CDX PLYWOOD	N	3x	10d	3"	36"	8"	12"	14"	-
4	15/32" CDX PLYWOOD	N	3x	10d	2"	28"	6"	9"	10"	-
5	15/32" CDX PLYWOOD	Y	3x	10d	4"	24"	5"	8"	9"	-
6	15/32" CDX PLYWOOD	Y	3x	10d	3"	18"	4"	6"	6"	-

FOOTNOTES:
1 All nails to be COMMONS. Do NOT use box type nails. All "Self" nailing to be 12" o.c. U.N.C.
2 All shearwalls to have 5/8" ABs with 3" x 3" x 22g thick plate washers, minimum. Slotted washers are permitted w/ standard cut washer placed between nut and plate washer.
3 Simpson SDS 1/4"x1/2" Screws through 2x wall; 3/8" SDS 1/4"x1/2" Screws through 3x wall. (ICC ERS-2008)
4 2x Sill Plate may be used if 5/8" Anchor Bolt spacing decreased to 16".
5 Where clips are less than 6" o.c., stagger clips on each side of wall.
6 16d common nails through the sill plate.
7 Capacity reduced by plan irregularity factor (ASCE 17.3.3.4).
8 2x Bottom Plate permitted at raised floor locations.

21 NOT USED

16 NOT USED

22 NOT USED

17 NOT USED

23 NOT USED

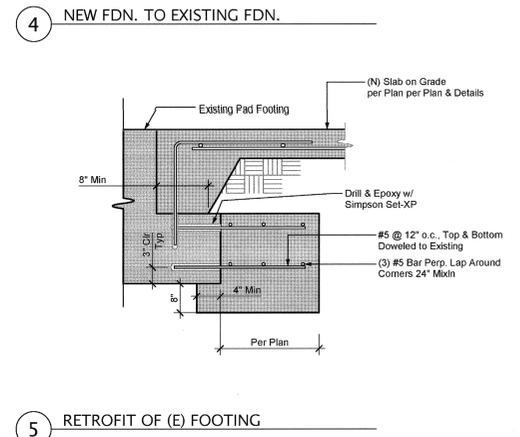
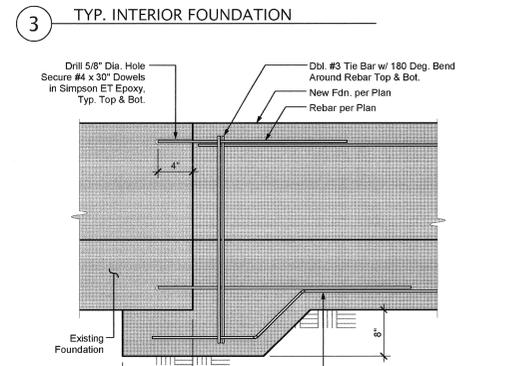
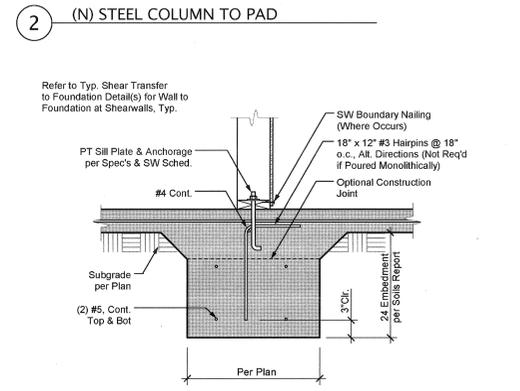
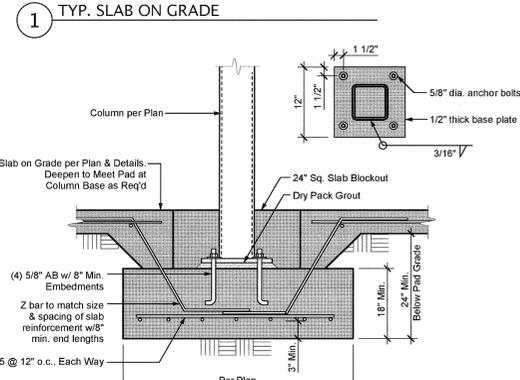
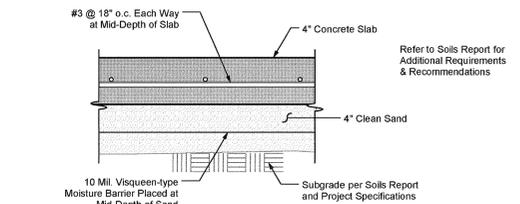
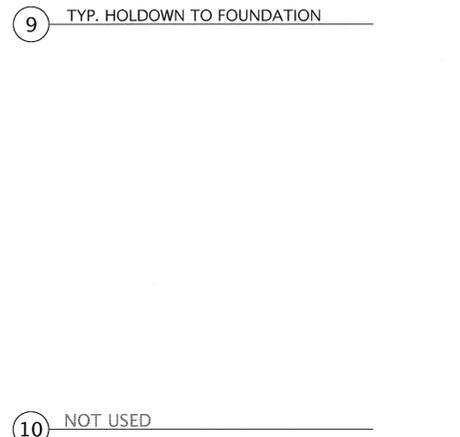
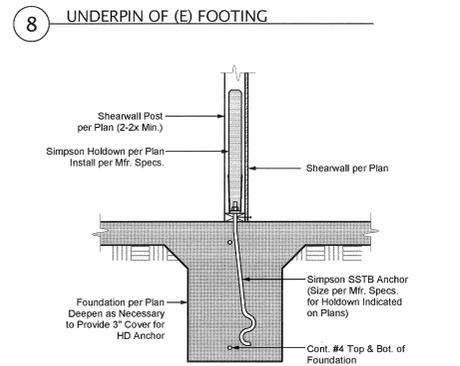
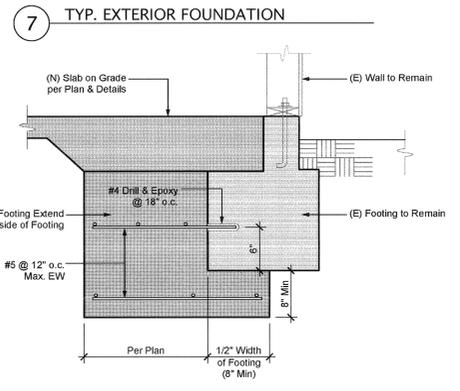
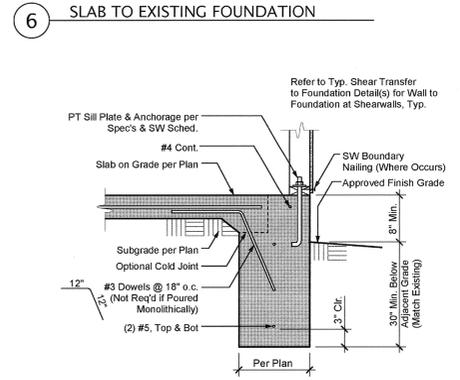
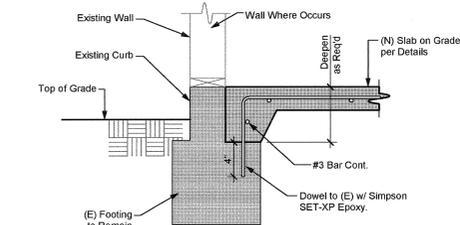
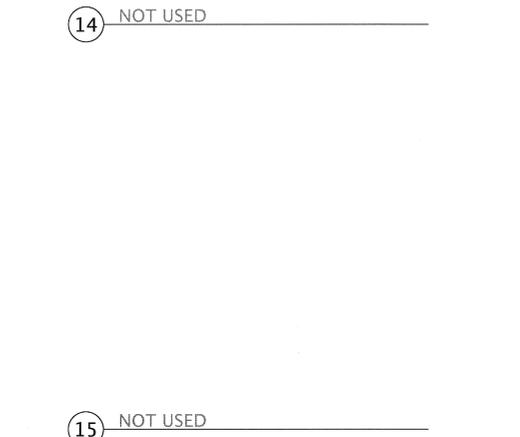
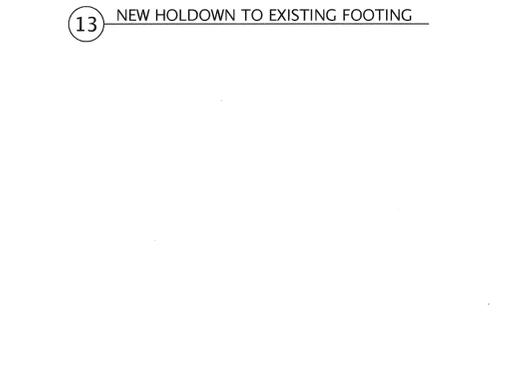
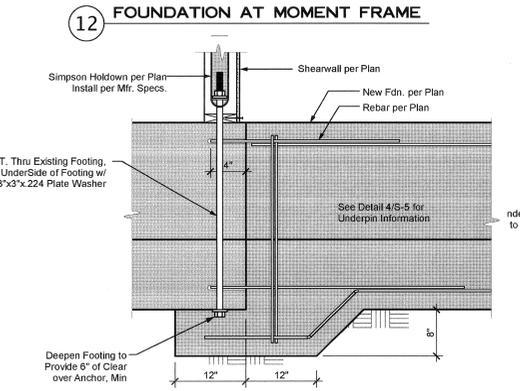
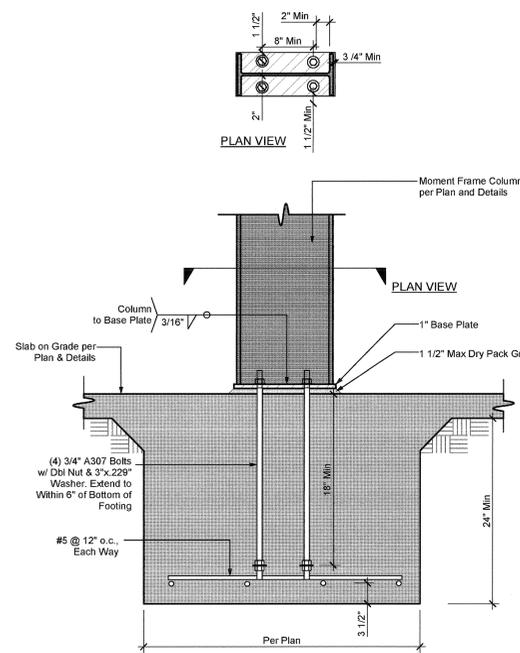
18 NOT USED

24 NOT USED

19 NOT USED

25 NOT USED

20 NOT USED



COUNTY OF SAN LUIS OBISPO DEPARTMENT OF GENERAL SERVICES

1087 SANTA ROSA STREET SAN LUIS OBISPO, CA 95408 PHONE 805 781 5200



Russell Associates, Inc. ARCHITECTURE INTERIORS CIVIL & STRUCTURAL ENGINEERING MECHANICAL ELECTRICAL PLUMBING



Revision table with columns for Revision, Date, and description.

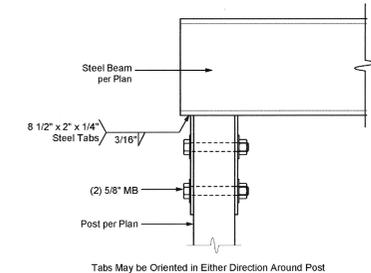
County Facility: ATASCADERO LIBRARY RENOVATION 3855 CAPISTRANO AVE ATASCADERO CA 95422

Project Engineer: J. DENIO Project Mgr: T. VANCE Client Approval: 08/20/2012

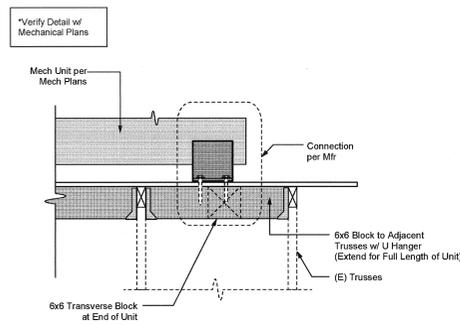
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT

Project Title: ATASCADERO LIBRARY RENOVATION Sheet Title: STRUCTURAL DETAILS

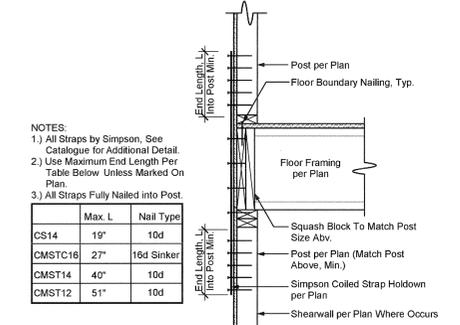
Sheet Number S-5 of 5 Sheets PROJECT No. 448 FILE No.



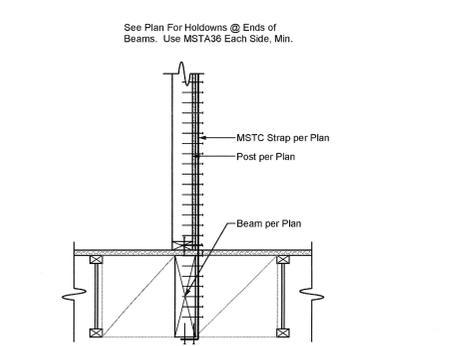
21 STEEL BEAM TO WOOD POST



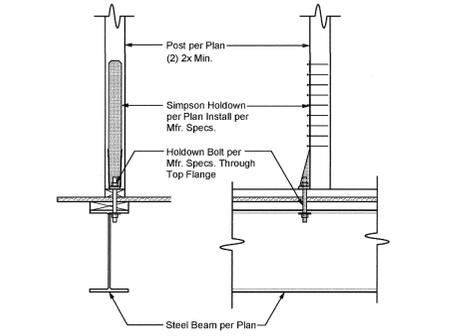
22 HVAC CURB CONNECTION (ROOF)



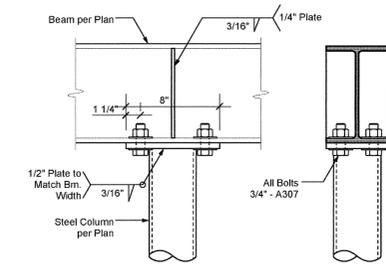
23 CMST HOLDOWN TO BELOW



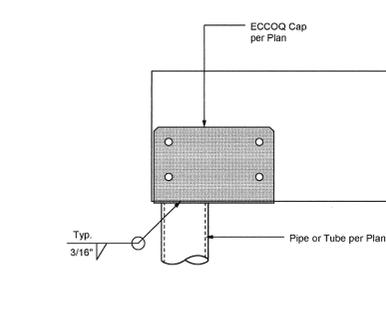
24 STRAP HOLDOWN TO BELOW



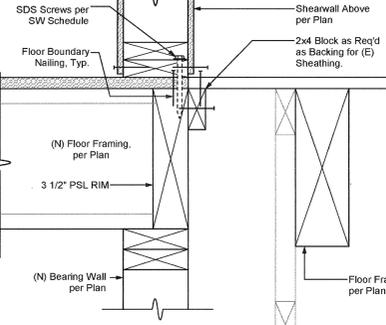
25 HOLDOWN TO STEEL BEAM



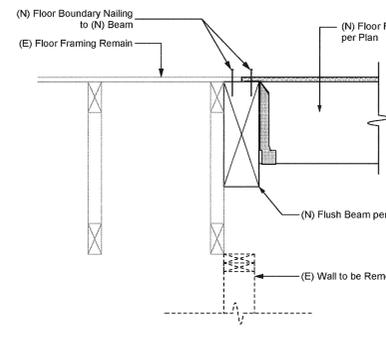
16 STEEL BEAM TO COLUMN (MID-SPAN)



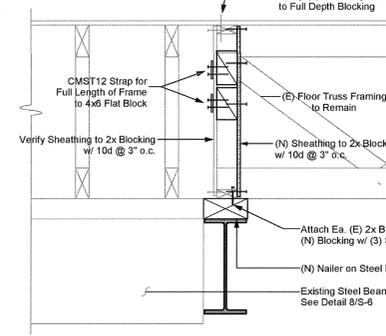
17 WOOD BEAM TO STEEL COLUMNS



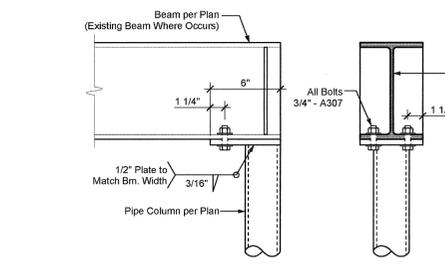
18 TYP. SHEAR TRANSFER



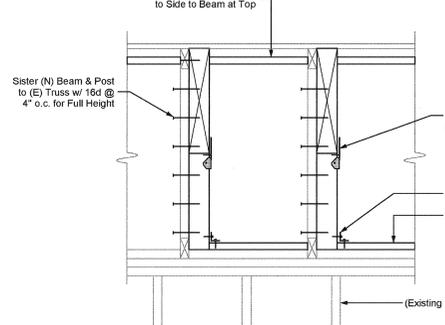
19 (N) FLOOR FRAMING TO (N) BEAM



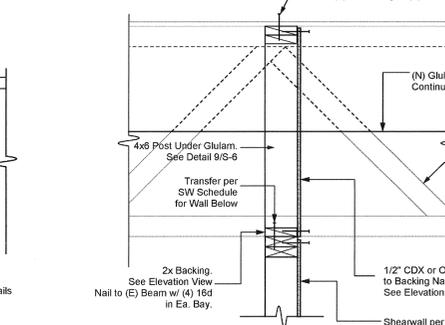
20 (N) FLOOR FRAMING TO (N) STEEL BEAM



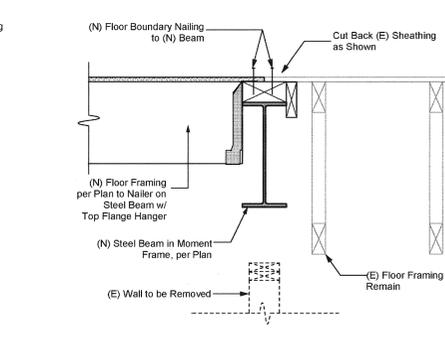
11 STEEL BEAM TO COLUMN (BEAM END)



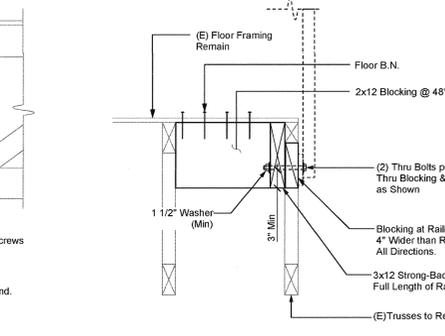
12 (N) FLOOR JOISTS TO (E) WALL (ELEVATION)



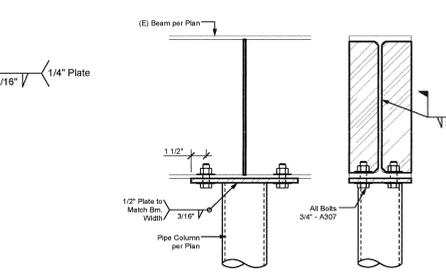
13 (N) FLOOR JOISTS AT (N) INTERIOR WALL



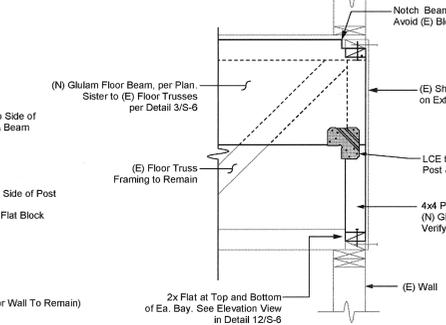
14 (N) FLOOR FRAMING TO (N) STEEL BEAM



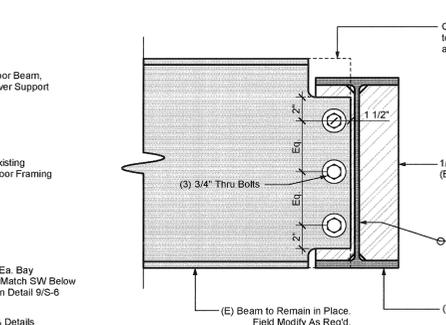
15 (N) FLOOR FRAMING TO (N) BEAM



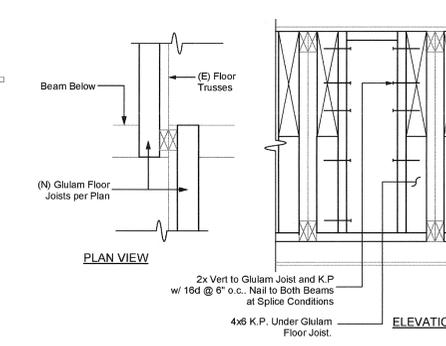
6 (N) COLUMN TO (E) STEEL BEAM



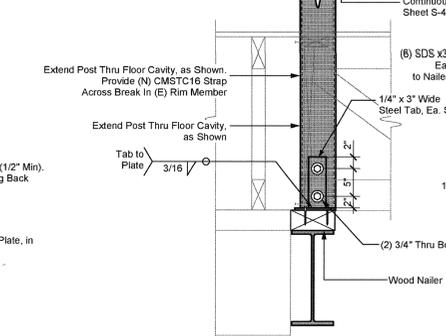
7 (N) FLOOR JOISTS TO (E) WALL (TRUSSES REMAIN)



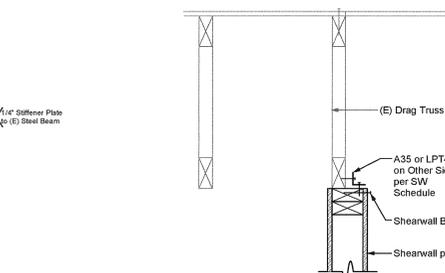
8 (E) STEEL BEAM TO (N) STEEL BEAM



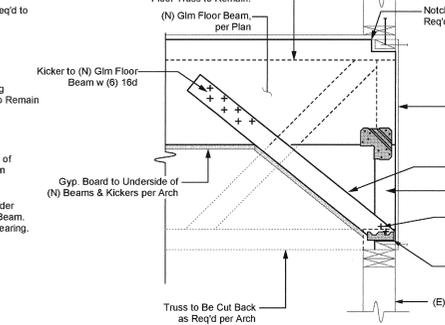
9 (N) GLULAM FLOOR BEAMS TO INTERIOR SUPPORT



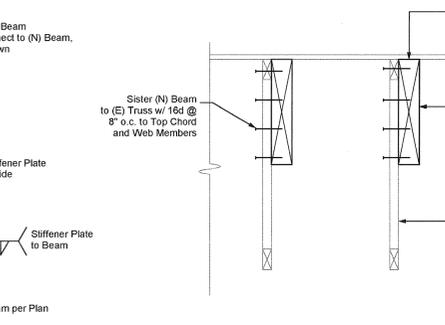
10 (N) STEEL POST TO BEAM BELOW



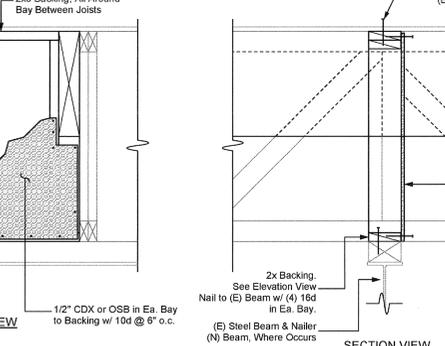
1 (N) SHEARWALL TO (E) ROOF



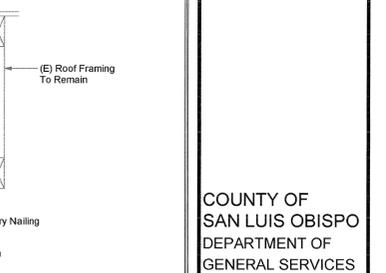
2 (N) FLOOR JOISTS TO (E) WALL (TRUSSES CUT AWAY)



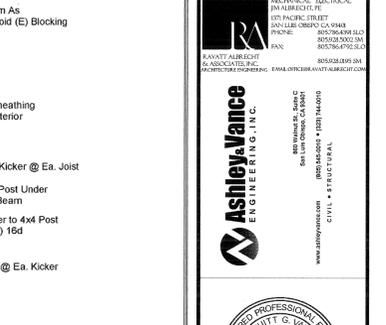
3 (N) FLOOR JOISTS TO (E) FLOOR TRUSSES



5 TYP. INTERIOR WALL TO TRUSSES



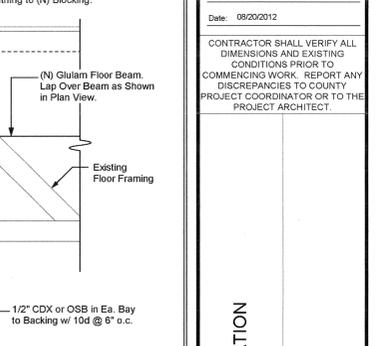
10 (N) STEEL POST TO BEAM BELOW



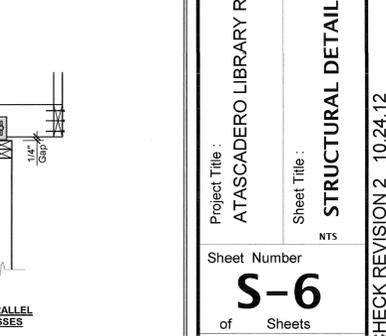
11 (N) STEEL POST TO BEAM BELOW



12 (N) STEEL POST TO BEAM BELOW



13 (N) STEEL POST TO BEAM BELOW



14 (N) STEEL POST TO BEAM BELOW

COUNTY OF
SAN LUIS OBISPO
DEPARTMENT OF
GENERAL SERVICES

1057 SANTA ROSA STREET
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PHONE 805.781.5200

ARCHITECTURE, INTERIOR
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STRUCTURAL, CIVIL, & LANDSCAPE
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REGISTERED PROFESSIONAL ENGINEER
FRUIT & LAURE
No. 77732
CIVIL & STRUCTURAL
STATE OF CALIFORNIA

Revision	Date
1 PLANCHECK REV1	9.26.12
2 PLANCHECK REV2	10.24.12
3 BID SET	11.19.12

County Facility:
ATASCADERO LIBRARY RENOVATION
8665 CARISTRANO AVE.
ATASCADERO, CA 95022

Project Engineer: J. DENIO
Project Mgr: T. VANCE

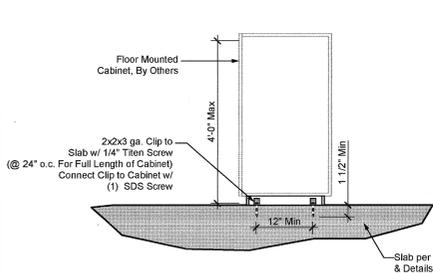
Client Approval:
Date: 09/20/2012

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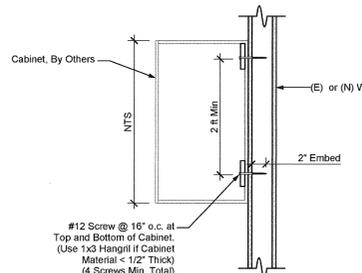
Project Title:
ATASCADERO LIBRARY RENOVATION

Sheet Title:
STRUCTURAL DETAILS

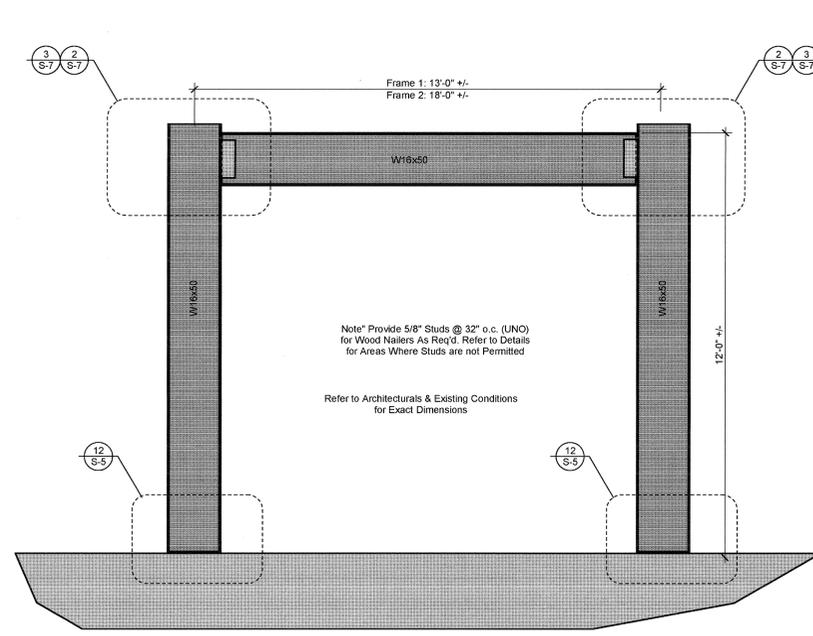
Sheet Number
S-6
of Sheets
PROJECT No. 448
FILE No.



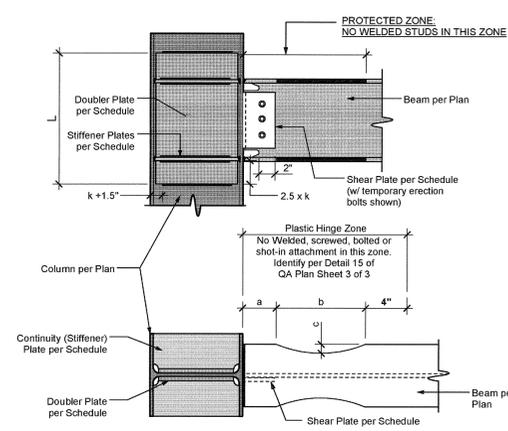
21 DESK CABINET BASE ATTACHMENT TO SLAB



16 CABINET ATTACHMENT TO WALL



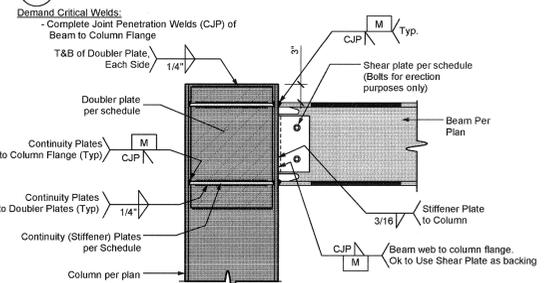
12 SPECIAL MOMENT RESISTING FRAME ELEVATION



RBS Dimensions		Dblr. Pl.		Cont. Pl.		Shear Pl.	
Beam	Column	a	b	c	k	t	t
W16x50	W16x50	4.60"	13.5"	1.42"	1.00"	3/8"	1/2"

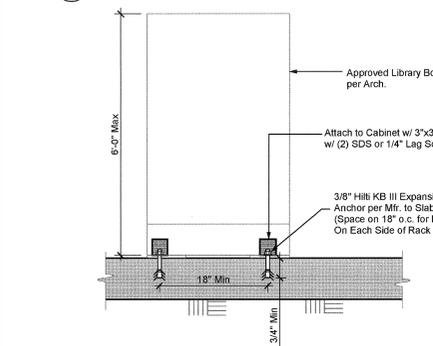
All Plates to be Installed Each Side of Connection (Except Shear Plate)
 All Stiffener Plates to Extend From Flange to Flange
 All Shear Plates to be distance betw. weld access holes + 1/4"
 All Plate Material to be 50 ksi
 All Welds to be 1/4" Fillet E70XX, UNO
 Two (2) 3/4" Dia. A307 May be Used for Temporary Erection Bolts
 See Specifications for All Testing and Inspection Requirements
 Nailers Not Shown for Clarity

2 SMRF CONNECTION SCHEDULE

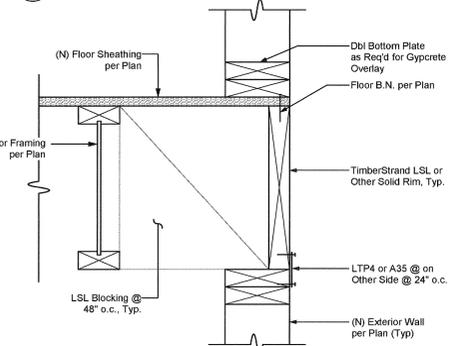


After welding remove weld tabs and finish to a smooth contour per 3.12.3 of AWS D1.1-2000. Remove backing bar after welding, backgouge root to sound metal, weld backgouged region and finish welding using a reinforcing fillet weld, according to 3.13.4 of AWS D1.1-2000.

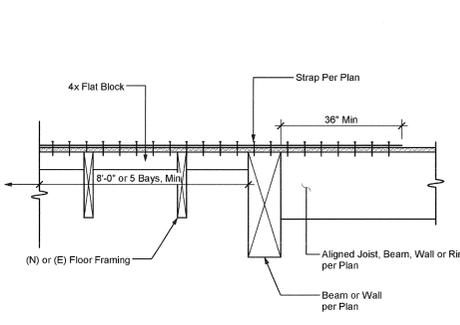
3 SMRF CONN. - BEAM TO EXT. COLUMN



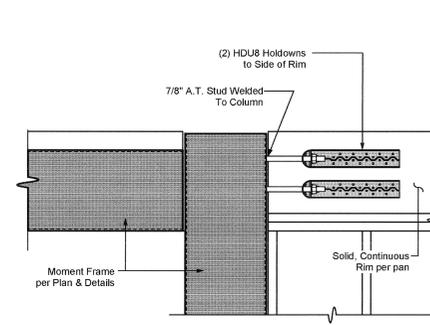
22 LIBRARY BOOK RACK TO FLOOR



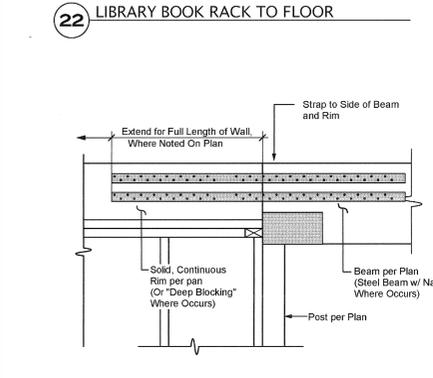
17 TYP. SHEAR TRANSFER



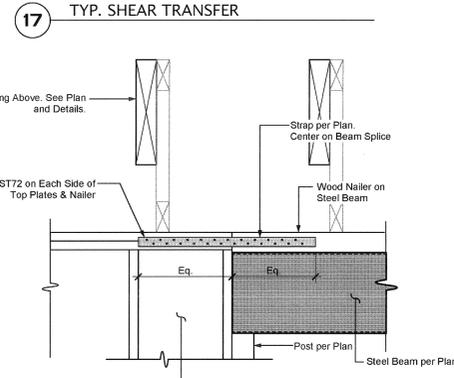
13 DRAG STRAP TO BLOCKING



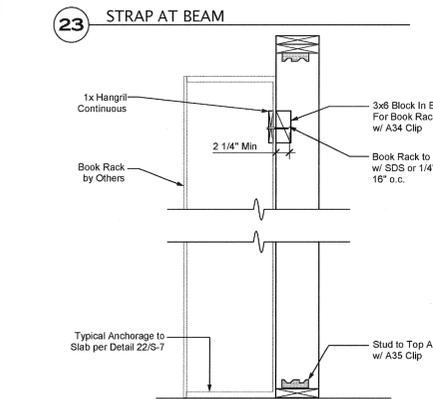
8 DRAG CONNECTION TO FRAME



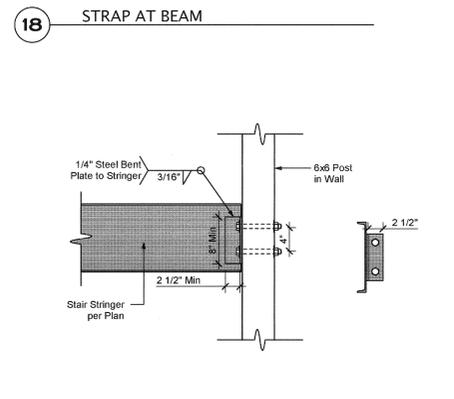
23 STRAP AT BEAM



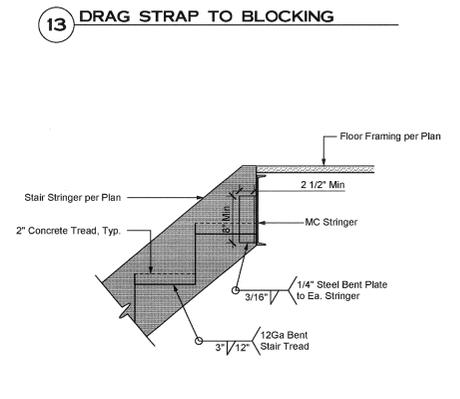
18 STRAP AT BEAM



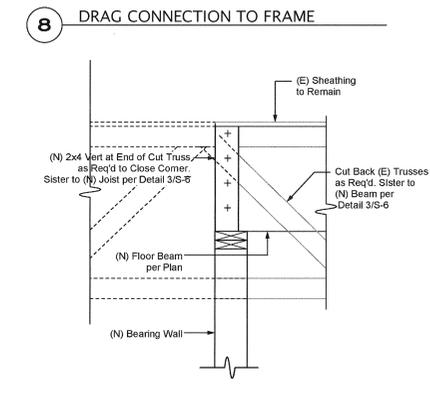
24 WALL MOUNTED BOOK RACK



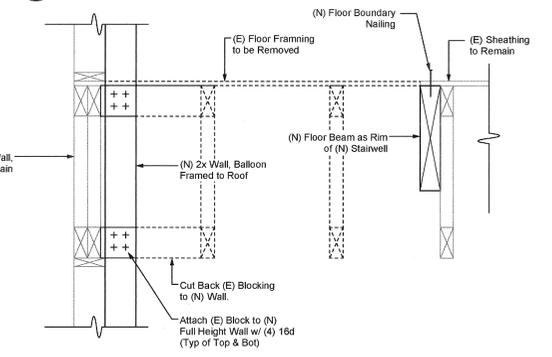
19 STAIR STRINGER TO FLOOR



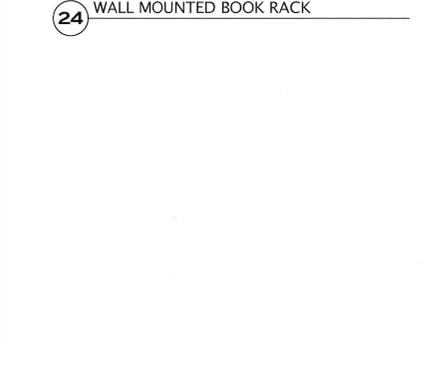
14 STAIR STRINGER TO FLOOR



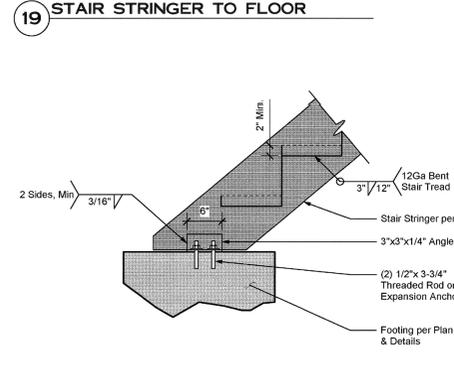
9 (N) VERT AT END OF CUT TRUSS



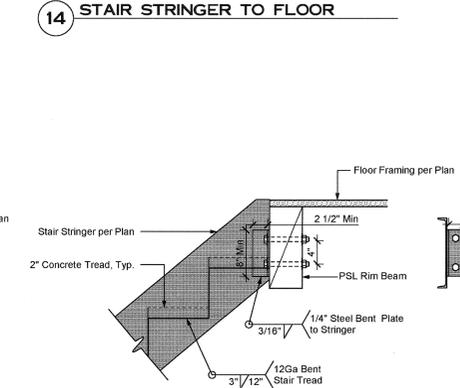
4 (N) FRAMING AT STAIRWELL



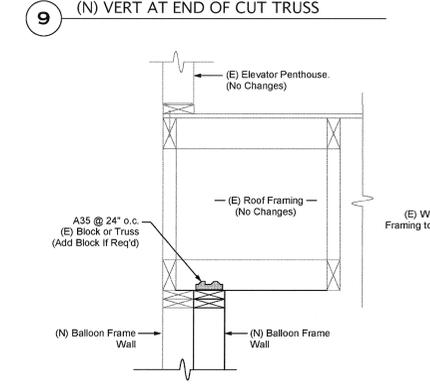
25 NOT USED



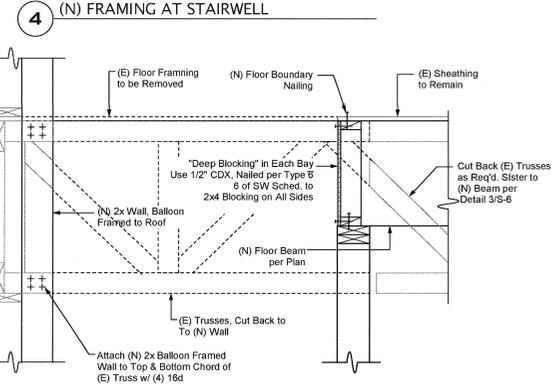
20 STAIR STRINGER TO FOUNDATION



15 STAIR STRINGER TO FLOOR



10 (N) FRAMING AT STAIRWELL (AT ROOF)



5 (N) FRAMING AT STAIRWELL

COUNTY OF SAN LUIS OBISPO DEPARTMENT OF GENERAL SERVICES

1087 SANTA ROSA STREET SAN LUIS OBISPO, CA 95048 PHONE: 805.781.5200

Ashley Vance ENGINEERING, INC.
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 275 PACIFIC STREET SAN LUIS OBISPO, CA 95060
 (805) 781-4900 FAX: (805) 781-4905
 www.ashleyvance.com



Revision	Date
1	PLAN CHECK REV1 9.26.12
2	PLAN CHECK REV2 10.24.12
3	BID SET 11.19.12

County Facility: **ATASCADERO LIBRARY RENOVATION**
 8665 CARPENTERS AVE. ATASCADERO CA 94622

Project Engineer: _____
 Project Mgr: _____
 Client Approval: _____
 Date: 09/20/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title: **ATASCADERO LIBRARY RENOVATION**
 Sheet Title: **STRUCTURAL DETAILS**
 NTS

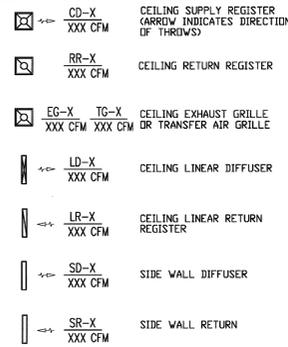
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 of Sheets: _____
 PROJECT No. 448
 FILE No. _____

SYMBOLS LEGEND

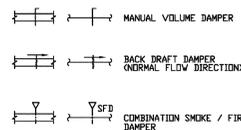
ABBREVIATIONS

GENERAL NOTES

GRILLES, REGISTERS AND DIFFUSERS



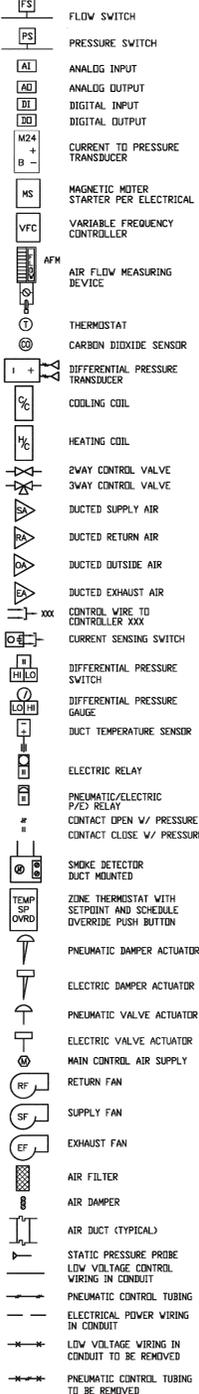
DAMPERS



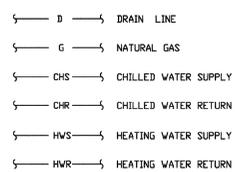
TERMINAL UNITS



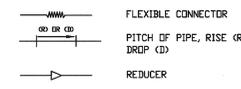
CONTROLS



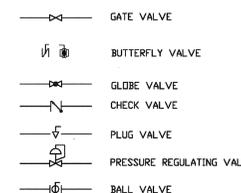
PIPING



PIPING SPECIALTIES



VALVES



PIPE FITTINGS

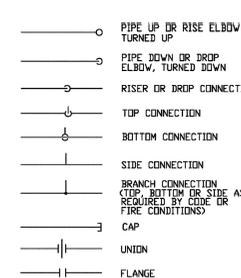
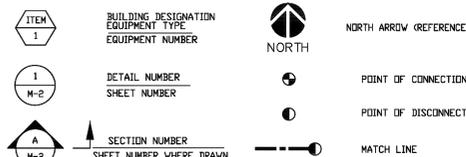


Table of abbreviations for mechanical components including AC (air compressor), AHU (air handling unit), AL (acoustically lined), AP (access panel), ARCH (architectural), BHP (brake horsepower), BOD (backdraft damper), BF (butterfly valve), BFD (backflow preventer assembly), BI (backward type), BLDG (building), BTU (british thermal unit), BTUH (british thermal unit per hour), CC (cooling coil), CD (ceiling diffuser), CFM (cubic feet per minute), CHR (chilled water return), CHS (chilled water supply), CLG (ceiling), COL (column), COMB (combination motor starter), CONC (concrete), CONN (connect or connection), COMP (compressor), CONT (continuation), CW (chilled cold water), DB (dry bulb temperature), DET (detail), DIA (diameter), DN (down), DWG (drawing), EX (existing), EA (exhaust air/each), ENT (entering air temperature), EF (exhaust air fan), EJP (expansion joint), ELEC (electrical), ELEV (elevation), EQUIP (equipment), ESP (external static pressure), EWT (exhaust), EXH (exhaust), F (fire), FC (flexible connection), FD (fire damper), FF (final filter), FFM (flow meter), FPM (feet per minute), FS (flow switch), FT (feet), GA (gauge), GALV (galvanized), GPM (gallons per minute), HTG (heating), HWR (heating water return), HWS (heating water supply), HVAC (heating ventilating air conditioning), HP (horsepower), IN (inch), IN (leaving air temperature), LBS (pounds), LWT (leaving water temperature), MAX (maximum), MBH (thousand btu per hour), MCC (motor control center), MECH (mechanical), MFR (manufacturer), MIN (minimum), ND (new), NC (normally closed), NET (net to scale), NO (normally open), OA (outside air), OLV (outlet velocity), P (pump), PD (pressure drop), PF (pre-filter), PG (pressure gauge), PLUMB (plumbing), POC (point of connection), PDD (point of disconnection), PRV (pressure reducing valve), PSI (pounds per square inch gauge), RA (return air), RF (return air fan), RH (reheat coil), RPM (revolutions per minute), SA (supply air or sound attenuator), SF (supply fan), SM (sheet metal), SP (static pressure), SPES (specifications), STRUCT (structural), TBR (to be removed), TG (transfer air grille), TH (thermometer), TSP (total static pressure), TYP (typical), UTR (up through roof), VD (volume damper), V (with), WB (wet bulb temperature), WT (weight), TWS (tempered water supply), TWR (tempered water return).

MISCELLANEOUS



- 1. ALL PRODUCTS AND EXECUTION OF WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON PLANS.
2. FOR ANY DISCREPANCIES BETWEEN DRAWINGS, AND SPECIFICATIONS OR WITHIN DRAWINGS (I.E. BETWEEN DIAGRAMS, I/D TABLES AND SEQUENCE OF OPERATIONS) THE MOST IMPORTANT STRINGENT CONDITIONS AS DETERMINED BY THE OWNER WILL BE REQUIRED.
3. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING FIRE, BUILDING, MECHANICAL, PLUMBING, AND ELECTRICAL CODES.
4. PRIOR TO SUBMISSION OF ANY BID, THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD SURVEY OF THE EXISTING SITE CONDITIONS AND FEATURES. ANY SITE CONDITIONS WHICH MAY CAUSE SIGNIFICANT DEVIATION FROM THE DESIGN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE COUNTY REPRESENTATIVE FOR CLARIFICATION PRIOR TO SUBMISSION OF THE CONTRACTOR'S BID. VERIFY DIMENSIONS OF ALL OWNER-FURNISHED EQUIPMENT TO ENSURE PROPER COORDINATION WITH CONSTRUCTION. CONTRACTOR SHALL BEAR ALL COSTS FOR RELOCATION OF EQUIPMENT, PIPE, DUCTS, ETC., FROM FAILURE TO ADVISE OF CONFLICT IN WRITING PRIOR TO SUBMISSION OF ANY BID, AND/OR FROM FAILURE TO PROPERLY COORDINATE INSTALLATIONS OF SYSTEMS.
5. IF ANY PART OF THIS CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE COUNTY REPRESENTATIVE ANY DEFECTS IN SUCH OTHER WORK THAT RENDERS IT UNSUITABLE TO PERFORM THE WORK OF THIS CONTRACTOR. FAILURE OF THIS CONTRACTOR TO SO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK, EXCEPT AS TO DEFECTS WHICH MAY DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.
6. MECHANICAL CONTRACTOR SHALL BE COGNIZANT OF THE EXISTING BUILDING STRUCTURE AND CEILING SPACE. ALLOW IN BID FOR DIFFICULTIES IN INSTALLATION OF EQUIPMENT AND PRICING FOR ADDITIONAL OFFSETS OF DUCTS AND PIPES THAT ARE NOT SHOWN ON DRAWING, BUT ARE REQUIRED TO PROVIDE A COMPLETE, FUNCTIONAL INSTALLATION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROVIDING ALL CEILING ACCESS, PATCHING AND REPAIR REQUIRED IN THE IMMEDIATE AREA OF THE WORK AND ANY ACCESS OUTSIDE THE IMMEDIATE AREA OF THE WORK REQUIRED TO PROVIDE COMPLETE AND PROPERLY FUNCTIONING SYSTEMS.
8. DUCT PENETRATION THROUGH FIRE-RATED EXIT CORRIDOR WALLS SHALL BE PROVIDED WITH FIRE/SMOKE DAMPERS WHERE SHOWN ON PLAN.
9. VERIFY AT PROJECT SITE EXACT SIZE, LOCATION, INVERT ELEVATIONS, AND CLEARANCES OF ALL EXISTING SERVICES BEING RELOCATED, EXTENDED, CONNECTED TO, OR REMOVED.
10. CONTRACTOR SHALL REMOVE, RELOCATE, REPLACE WITH NEW AND/OR RECONNECT ALL EXISTING SERVICES AS REQUIRED BY NEW CONSTRUCTION.
11. ALL DUCT DIMENSIONS ARE SHOWN IN INCHES. ALL DIMENSIONS ARE CLEAR INSIDE SIZES. FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
12. ALL DUCTWORK AND PIPING SHOWN ON PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION.
13. CERTAIN VERTICAL AND HORIZONTAL DIMENSIONS ARE SHOWN IN DUCTS TO INDICATE THEIR GENERAL POSITION IN RELATIONSHIP TO THE SYSTEMS WITHIN THE SPACE AVAILABLE FOR SYSTEM INSTALLATION. PROVIDE ADDITIONAL OFFSETS SIMILAR TO THOSE SHOWN AS REQUIRED, AND TO COORDINATE WITH INSTALLATION REQUIREMENTS OF OTHER SYSTEMS AT NO ADDITIONAL COST TO OWNER.
14. IN LIEU OF RECTANGULAR DUCT AS SHOWN ON PLAN, CONTRACTOR HAS OPTION TO USE ROUND DUCTWORK WHERE SPACE IS PERMITTED. SIZING SHALL BE BASED ON EQUAL FRICTION AND SHALL NOT EXCEED DESIGN PRESSURE LOSS.
15. COORDINATE REGISTER, DIFFUSER AND GRILLE LOCATIONS WITH CEILING SUPPORT MEMBERS AND LIGHTING FIXTURES. FINISHED CEILING CONFIGURATION SHALL FORM A FULLY INTEGRATED INSTALLATION IN EACH FINISHED SPACE; REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR REQUIRED COORDINATED LAYOUT.
16. INSTALL ALL PIPING AND DUCTWORK TO AVOID ARCHITECTURAL FRAMING, STRUCTURAL MEMBERS, AND OTHER OBSTRUCTIONS. COORDINATE PIPING AND DUCTWORK LOCATION WITH ALL APPLICABLE CONTRACT DRAWINGS AND INSTALLATION WORK OF OTHER TRADES PRIOR TO PLACING SLEEVES IN FLOORS OR WALLS.
17. INSTALL ALL DUCTWORK CONCEALED IN FURRED WALL AND CEILING UNLESS OTHERWISE NOTED.
18. TOTAL AIR STATIC PRESSURE NOTED IN SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, AND ALL ITEMS EXTERNAL TO FAN CASING. IT DOES NOT INCLUDE CASING LOSS.
19. SCHEDULE ALL WORK WITH THE OWNER INCLUDING CONSTRUCTION ACCESS AND STORAGE. THE CONSTRUCTION SCHEDULE PROCEDURE SHALL BE APPROVED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION.
20. ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL EXISTING FACILITIES MUST BE MAINTAINED IN SERVICE AT ALL TIMES EXCEPT AS REQUIRED FOR NEW SYSTEMS CONNECTION. COORDINATE SHUTDOWN WITH RESPONSIBLE FACILITY PERSONNEL.
21. CONTRACTOR SHALL PROVIDE DUST COVERS AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA. BROOM CLEAN ALL AREAS EACH DAY. KEEP DIRT AND DUST TO A MINIMUM.
22. ALL REMOVED ITEMS DEEMED TO HAVE VALUE BY THE OWNER SHALL BE DELIVERED TO A PLACE OF STORAGE AT THE SITE AS DIRECTED. ALL OTHER ITEMS MUST BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
23. WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY, AND PERFORMANCE.
24. WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO PUBLIC AND OCCUPANTS OF THE FACILITY.
25. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA AND OSHA.

- 26. SECURELY FASTEN ALL PIPING AND DUCTWORK WITHIN STRUCTURES TO THE BUILDING CONSTRUCTION BY MEANS OF HANGERS, SUPPORTS, GUIDE ANCHORS, AND SWAY BRACE SEISMIC RESTRAINTS TO MAINTAIN ALIGNMENT, TO PREVENT SAGGING AND TO PREVENT NOISE AND EXCESSIVE STRAIN DUE TO MOVEMENT UNDER OPERATING CONDITIONS. COORDINATE ANCHORING POINTS TO ASSURE STRUCTURAL INTEGRITY DURING NORMAL OPERATION AND SEISMIC EVENTS.
27. PIPE SUPPORTS SHALL BE DESIGNED TO INCLUDE THE WEIGHT OF THE PIPE AND THE WEIGHT OF THE CONTENTS OF THE PIPE.
28. INSTALL WALL-MOUNTED ROOM THERMOSTATS 48 INCHES ABOVE FINISHED FLOOR UNLESS DIRECTED OTHERWISE. COORDINATE INSTALLATION LOCATION AND HEIGHT PRIOR TO THERMOSTAT ROUGH-IN.
29. PROVIDE FLEXIBLE CONNECTIONS AT ALL VIBRATION ISOLATED EQUIPMENT AND AS INDICATED ON FLOW DIAGRAMS, DETAILS, AND AS OTHERWISE SPECIFIED.
30. PROVIDE A TIGHT SEAL OF INCOMBUSTIBLE MATERIAL AROUND ALL DUCTWORK AND PIPING WHICH PENETRATE FIRE SEPARATIONS.
31. COORDINATE THE LOCATION AND QUANTITY OF ALL ACCESS PANELS. PANELS ARE REQUIRED IN CEILINGS FOR ALL VARIABLE VOLUME DAMPERS, DAMPERS, VALVES, CONTROLS, AND OTHER ITEMS REQUIRING ROUTINE MAINTENANCE OR ADJUSTMENT, AND SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS. WHERE ACCESS PANELS ARE NOT SHOWN FOR VOLUME DAMPER ACCESS, PROVIDE CEILING MOUNTED REMOTE OPERATED VOLUME DAMPER CONTROL.
32. IN MECHANICAL AND EQUIPMENT ROOMS, INSTALL ALL VALVES ACCESSIBLE FROM FLOOR LEVEL. WHEN REQUIRED, PROVIDE GUIDED CHAIN OPERATORS ON ALL VALVES IN MECHANICAL AND EQUIPMENT ROOMS INSTALLED OVER 7 FEET ABOVE FLOOR UNLESS OTHERWISE NOTED.
33. PROVIDE OPERATING HANDLES FOR ALL VALVES AND COCKS SUPPLIED WITHOUT INTEGRAL OPERATORS.
34. ALL PIPE SIZES ARE IN INCHES. 35. PROVIDE VALVES AND OTHER PIPING SPECIALTIES SAME SIZE AS LINE SIZE UNLESS OTHERWISE NOTED. 36. PROVIDE PIPE SUPPORTS NOT MORE THAN 12 INCHES FROM THE POINT OF CHANGE OF DIRECTION OF A PIPE RUN IN BOTH HORIZONTAL AND VERTICAL PLANES.
37. DO NOT SUPPORT PIPING OR VALVES FROM PUMPS OR OTHER PIECES OF EQUIPMENT.
38. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION OF INSTALLATION.
39. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING CURRENT REQUIREMENTS WITH THE MANUFACTURER OF THE PRODUCTS USED ON THE PROJECT AND NOTIFY THE COUNTY REPRESENTATIVE IF ANY DISCREPANCIES ARE FOUND BEFORE THE PURCHASE OF THE PRODUCT.
40. WHEREVER MORE THAN ONE (1) MANUFACTURER'S PRODUCT IS SPECIFIED, THE FIRST-NAMED PRODUCT IS THE BASIS FOR THE PROJECT DESIGN AND THE USE OF ALTERNATIVE NAMED MANUFACTURERS' PRODUCTS OR SUBSTITUTES MAY REQUIRE MODIFICATIONS IN THE PROJECT DESIGN AND CONSTRUCTION. IF SUCH ALTERNATIVES ARE PROPOSED BY CONTRACTOR, THE CONTRACTOR SHALL ASSUME ALL COSTS REQUIRED TO MAKE NECESSARY REVISIONS AND MODIFICATIONS TO THE ORIGINAL PROJECT DESIGN. ALTERNATIVE ITEMS THAT REQUIRE CALCULATIONS SHALL HAVE CALCULATIONS SUBMITTED WITH SHOP DRAWINGS BEFORE APPROVAL WILL BE CONSIDERED.
41. MECHANICAL CONTRACTOR SHALL PREPARE 1/4" = 1'-0" MINIMUM SCALE DUCTWORK AND PIPING SHOP DRAWINGS INDICATING CURRENT AS-BUILT CONDITIONS FULLY COORDINATED WITH PLUMBING, FIRE PROTECTION, ELECTRICAL AND OTHER TRADES. SHOP DRAWING SHALL BE AVAILABLE AT JOB SITE AT ALL TIMES.
42. MECHANICAL CONTRACTOR SHALL MAINTAIN RECORDED 'AS BUILT' INFORMATION ON ALL WORK INSTALLED DURING CONSTRUCTION AND IT SHALL BE CLEARLY MARKED IN COLORED PENCIL ON A REPRODUCIBLE PRINT OF SHOP DRAWINGS. RECORDED INFORMATION SHALL INCLUDE ROUTING AND ELEVATIONS. THE CONTRACTOR SHALL TURN RECORDED 'AS BUILT' INFORMATION OVER TO THE COUNTY REPRESENTATIVE.
43. THE CONTRACTOR SHALL GUARANTEE THAT ALL WORK DONE UNDER THIS CONTRACT WILL BE FREE FROM FAULTY MATERIALS OR WORKMANSHIP AND HEREBY AGREES TO REPAIR OR REPLACE WITHOUT COST TO THE GOVERNMENT ALL DEFECTS OR IMPERFECTIONS APPEARING IN SAID WORK PER THE CONTRACT.
44. CONTRACTOR SHALL PROVIDE SCHEDULE AND PROCEDURES FOR THE PURPOSE OF COORDINATION WITH OTHER TRADES.
45. ALL WASTE WATER GENERATED BY CONSTRUCTION ACTIVITIES SHALL BECOME THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DISPOSED OF IN COMPLIANCE WITH ALL STATE AND FEDERAL REGULATION.
46. CONTROL SYSTEMS AND CONTROLLER DIAGRAMS ARE SCHEMATIC ONLY. CONTRACTOR SHALL PROVIDE MATERIALS AND LABOR AS NECESSARY FOR COMPLETELY FUNCTIONAL SYSTEMS.
47. CONTRACTOR TO PROVIDE SPARE CONTROL POINT CAPACITY PER SPECIFICATIONS.
48. CONTRACTORS TO PROVIDE ALL MATERIALS AND LABOR REQUIRED TO MOUNT, SUPPORT HANG AND/OR SUSPEND ALL CONTROL PANELS, CONTROL COMPONENTS, DUCT, PIPES, CONDUITS, AND EQUIPMENT. SUBMIT SHOP DRAWINGS FOR ALL SUPPORT APPROVAL PRIOR TO START OF CONSTRUCTION AS PER SPECIFICATION.
49. WHERE EXISTING SURFACE ARE DAMAGED BY THIS WORK THEY SHALL BE PATCH, REPAIRED AND FINISHED TO MATCH THE SURROUNDING BY THE CONTRACTOR.
50. THE CONTROL CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT, WIRING AND DEVICES FOR A COMPLETE FUNCTIONAL SYSTEM WHETHER THEY ARE SHOWN ON THE DRAWING OR NOT.
51. COORDINATE NEW CONTROLS WITH EXISTING NOVAR SHOWN SYSTEMS.
52. NEW SPACE-CONDITIONING SYSTEMS ARE TO BE BALANCED IN ACCORDANCE WITH APPROVED PROCEDURES PRIOR TO USE PER CGBSC 5.410.4.3.
53. OPENINGS OF DUCTS AND OPENINGS OF OTHER RELATED AIR DISTRIBUTION COMPONENTS ARE TO BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS TO PREVENT DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM FROM THE TIME THE MATERIALS ARRIVE ON SITE UNTIL FINAL STARTUP OF THE HEATING AND COOLING SYSTEMS.



COUNTY OF SAN LUIS OBISPO GENERAL SERVICES 1007 SANTA ROSA STREET SAN LUIS OBISPO, CA 93408 PHONE 805.781.6200



REGISTERED PROFESSIONAL ENGINEER JAMES B. ALBRECHT No. M08650 State of California

Revision table with columns for No., Revision, and Date. Includes entries for PLANCHHECK REV1 (9.26.12), PLANCHHECK REV2 (10.24.12), and PLANCHHECK REV3 (11.19.12).

County Facility: ATASCADERO LIBRARY RENOVATION

6555 CASPIRANO AVE. ATASCADERO CA 93422

Project Manager: M. DEMARTINI

Checked By: MD Client Approval: Date: 08/20/2012

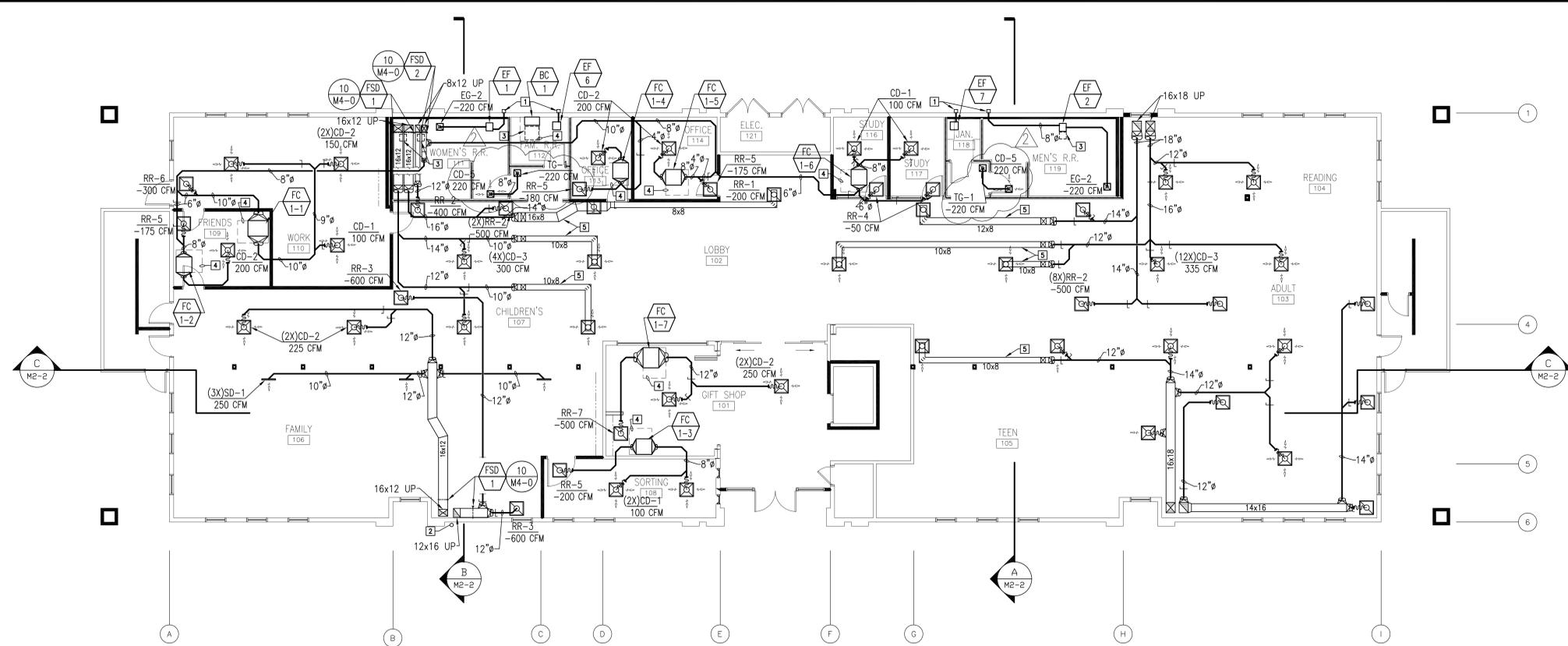
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title: ATASCADERO LIBRARY RENOVATION

Sheet Title: MECHANICAL NOTES, SYMBOLS, AND ABBREVIATIONS

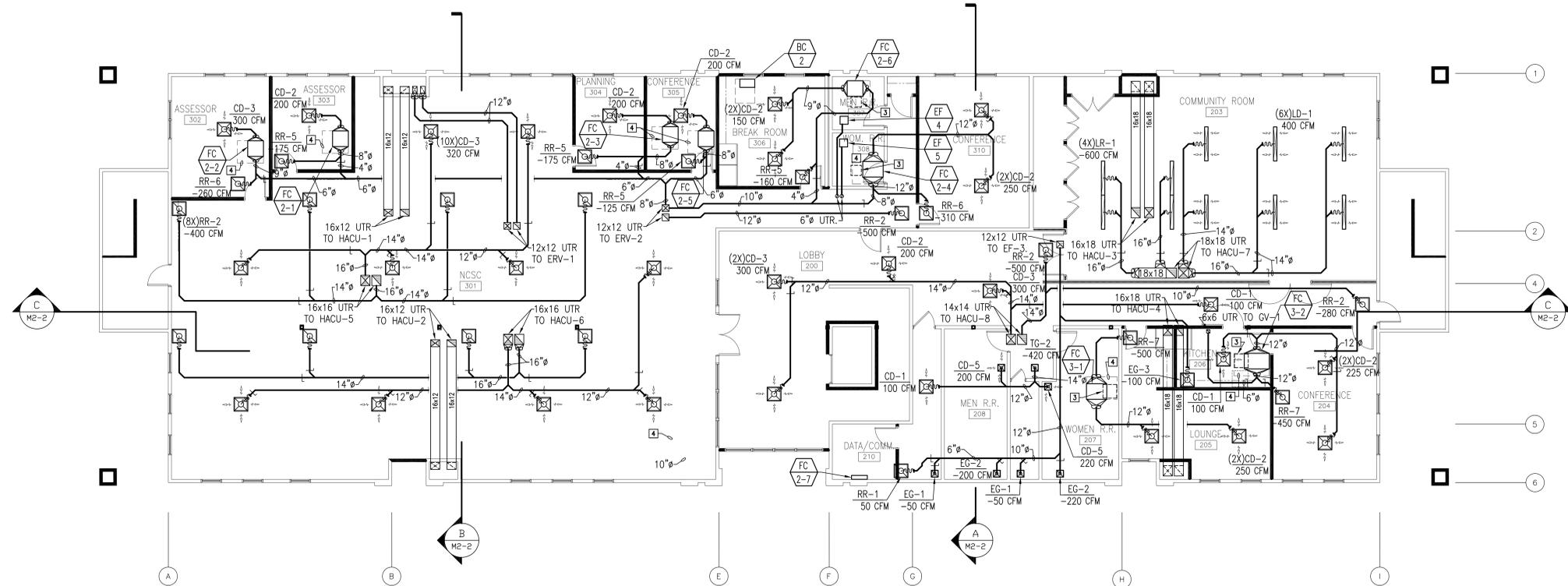
Sheet Number: M1-0 of 47 Sheets

PROJCT NO. 417 FILE No.



MECHANICAL FIRST FLOOR PLAN

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



MECHANICAL SECOND FLOOR PLAN

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



- 1 PROVIDE & INSTALL WALL CAP FOR EXHAUST TERMINATION. TERMINATE NOT LESS THAN 10'-0" FROM EXISTING OPERABLE WINDOWS.
- 2 COORDINATE FIRE SPRINKLER RISER LOCATION W/ FIRE SPRINKLER CONTRACTOR.
- 3 PROVIDE & INSTALL CEILING ACCESS PANEL. PROVIDE FIRE RATED CEILING ACCESS PANELS OF EQUIVALENT RATING IN FIRE RATED CEILINGS. SIZE PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND/OR TO ALLOW SUFFICIENT ACCESS SPACE FOR SERVICE/MAINTENANCE.
- 4 OBSERVE ALL EQUIPMENT MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.
- 5 DUCT HEIGHT TO BE BELOW FIRE RATED FLOOR-CEILING ASSEMBLY AND ABOVE ACOUSTICAL DROP CEILING.

KEY NOTES



COUNTY OF
SAN LUIS OBISPO
DEPARTMENT OF
GENERAL SERVICES
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA 93408
PHONE 805.785.6500



No.	Revision	Date
	ADDENDUM#1 REV4	12.17.12
	ADDENDUM#2 REV5	1.10.13

County Facility:		
ATASCADERO LIBRARY RENOVATION		
6555 CAPITRANO AVE. ATASCADERO CA 93422		
Project Manager: M. DEMARTIN		
Checked By: MD		
Client Approval:		
Date: 06/20/2012		

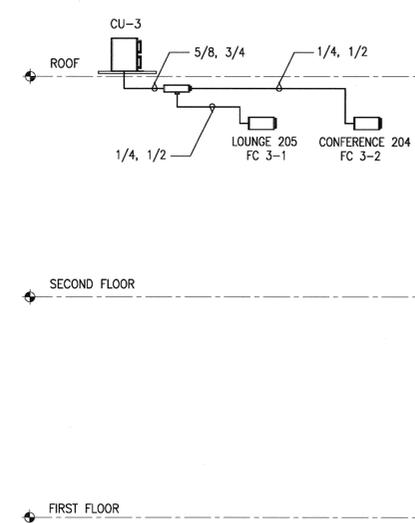
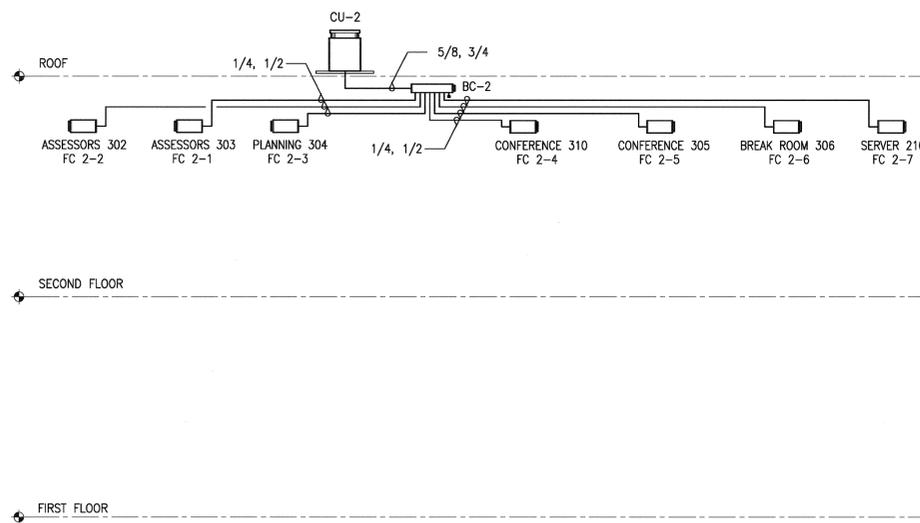
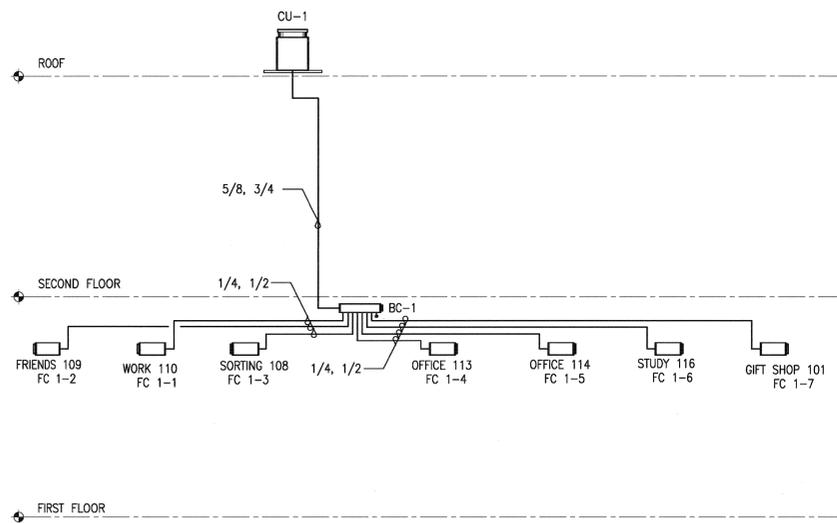
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title: ATASCADERO LIBRARY RENOVATION
6555 CAPITRANO AVE.
ATASCADERO, CA 93422

Sheet Title: MECHANICAL FLOOR PLANS

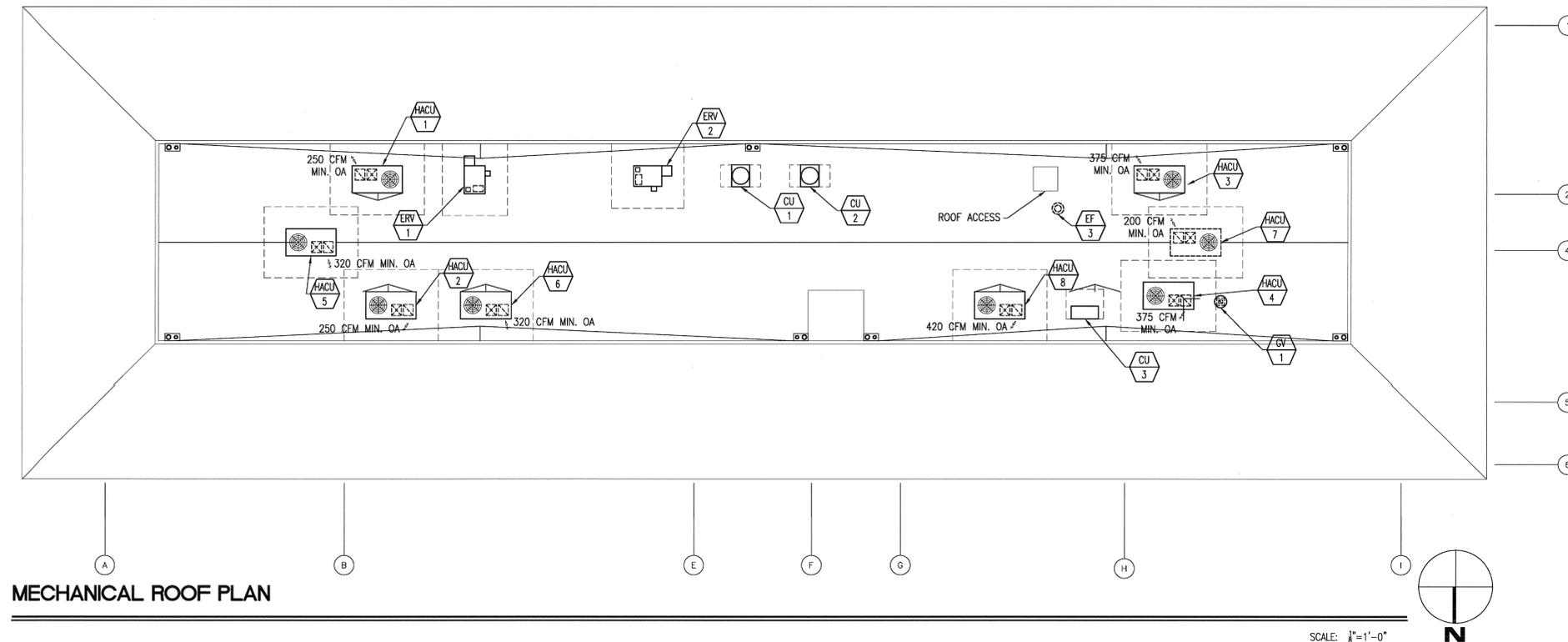
Sheet Number
M2-0
of Sheets
PROJECT No. 417
FILE No.

BIDDING SET 11-19-12



VRF REFRIGERANT PIPING DIAGRAM

SCALE: NONE



MECHANICAL ROOF PLAN

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



COUNTY OF
SAN LUIS OBISPO
DEPARTMENT OF
GENERAL SERVICES
1027 SANTA ROSA STREET
SAN LUIS OBISPO, CA 93408
PHONE 805/7852800



No.	Revision	Date
1	PLANCHECK REV1	9.26.12
2	PLANCHECK REV2	10.24.12
3	PLANCHECK REV3	11.19.12

County Facility:
ATASCADERO LIBRARY RENOVATION
6555 CAPISTRANO AVE.
ATASCADERO CA 93422

Project Manager: **M. DEMARTIN**
Checked By: **MD**
Client Approval:
Date: **06/20/2012**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

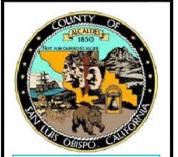
Project Title: **ATASCADERO LIBRARY RENOVATION**
6555 CAPISTRANO AVE
ATASCADERO CA 93422
Sheet Title: **MECHANICAL ROOF PLAN**

Sheet Number
M2-1
of Sheets
PROJECT No. **417**
FILE No. _____

BIDDING SET 11-19-12

- 1 DUCTWORK TO ROUTE THROUGH EXISTING TRUSS WEBBING. WHERE CONDITIONS DO NOT ALLOW THE INSTALLATION OF RIGID METAL DUCT, CONTRACTOR HAS OPTION TO USE FLEXIBLE METAL DUCT IN LIEU OF RIGID METAL.
- 2 DUCT HEIGHT TO BE BELOW FIRE RATED FLOR-CEILING ASSEMBLY AND ABOVE ACOUSTICAL DROP CEILING.

KEY NOTES



COUNTY OF
SAN LUIS OBISPO
DEPARTMENT OF
GENERAL SERVICES
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA 93408
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REGISTERED PROFESSIONAL ENGINEER
JAMES B. ALBRECHT
No. M26555
Exp. 9-30-14
MECHANICAL
STATE OF CALIFORNIA

No.	Revision	Date
PLANCHCK	REV1	9.26.12
PLANCHCK	REV2	10.24.12
PLANCHCK	REV3	11.19.12
ADDENDUM#1	REV4	12.17.12

County Facility:
ATASCADERO LIBRARY RENOVATION
6555 CARISTRANO AVE.
ATASCADERO CA 93422

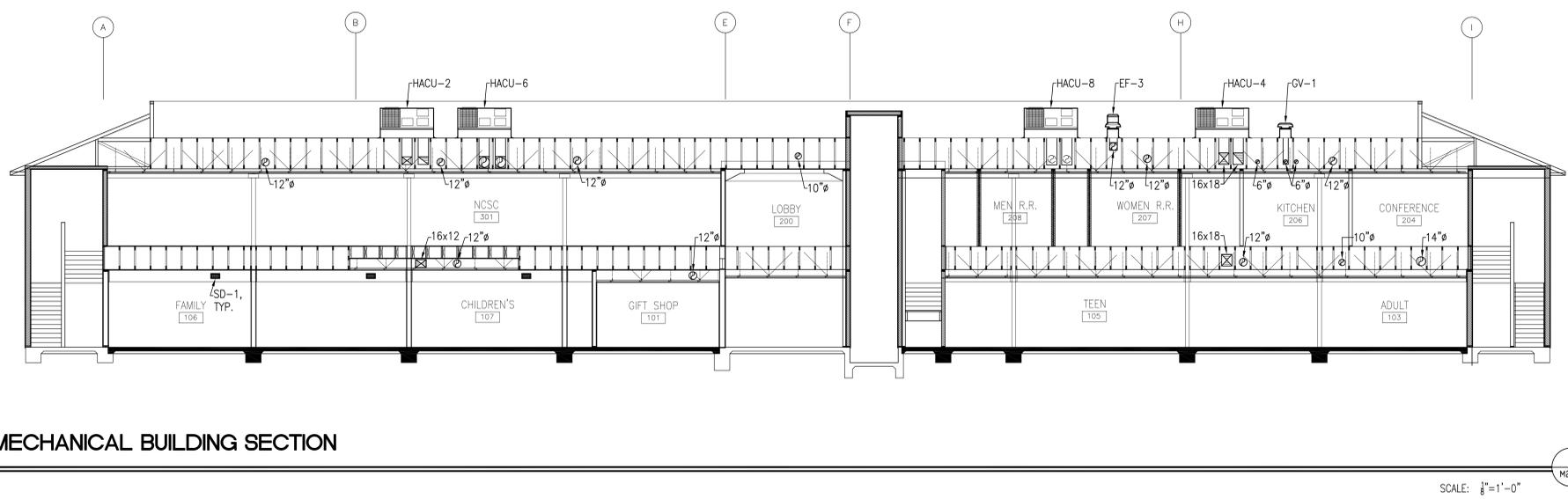
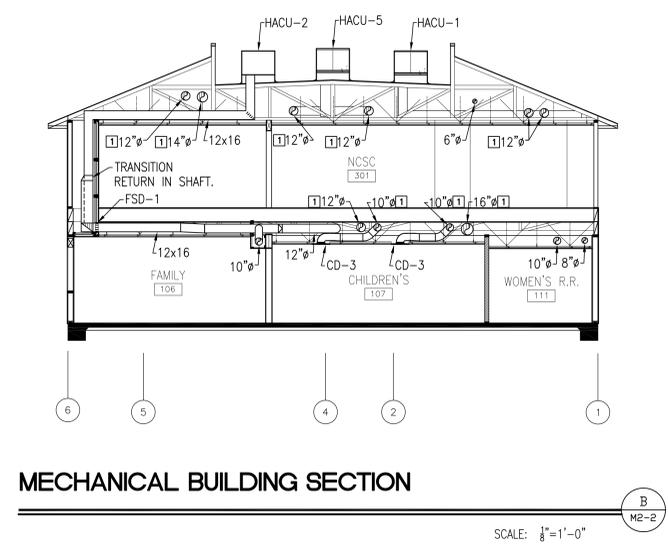
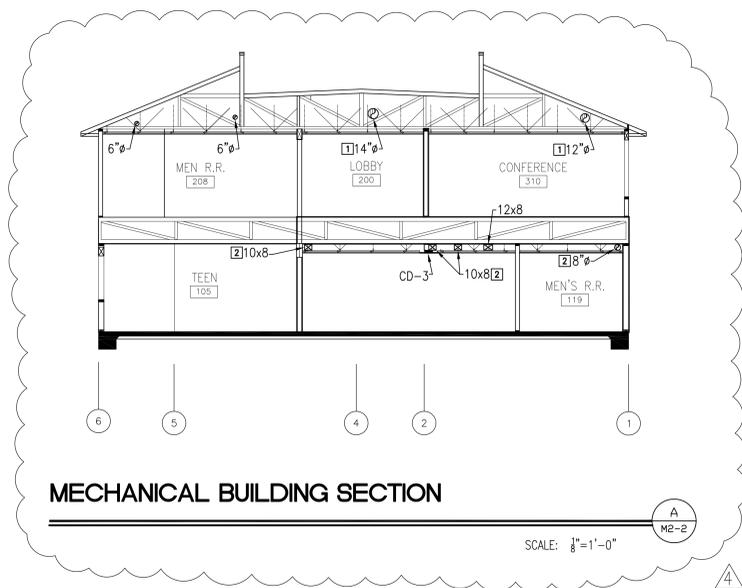
Project Manager: **M. DEMARTIN**
Checked By: **MD**
Client Approval:
Date: **06/20/2012**

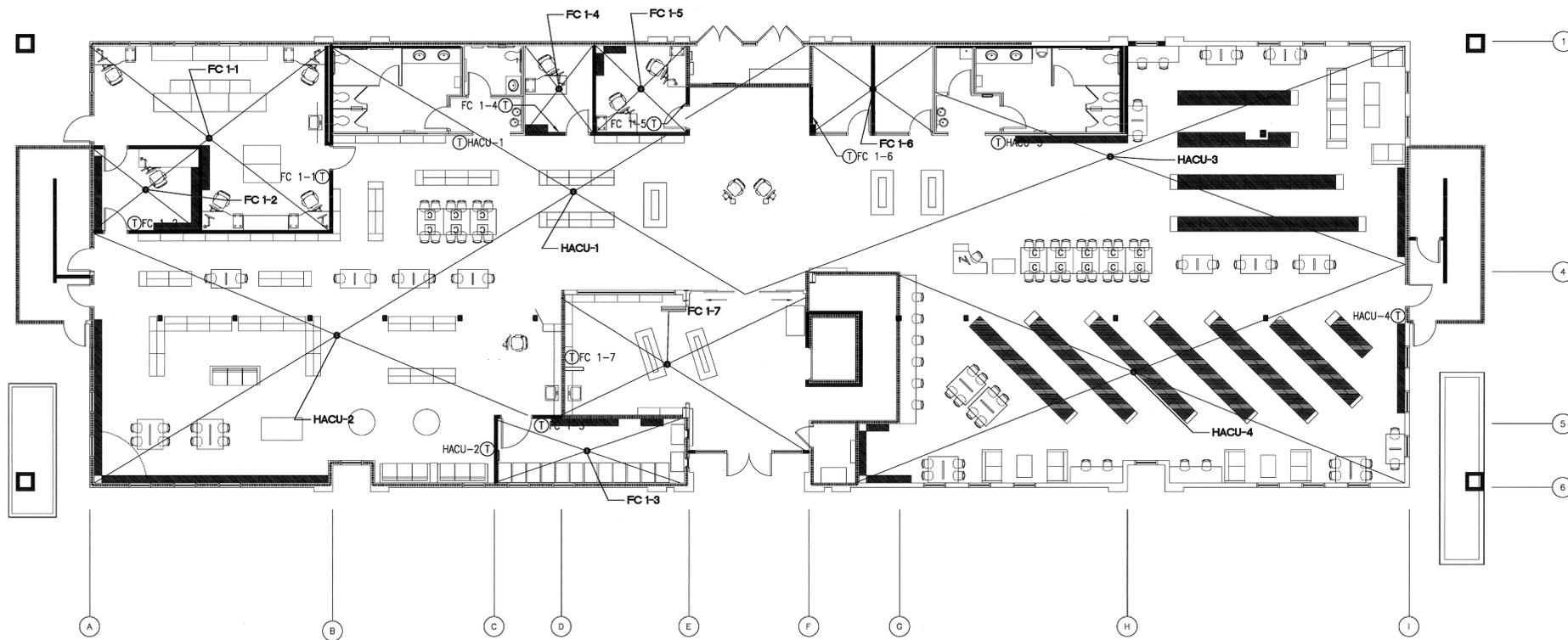
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Project Title: **ATASCADERO LIBRARY RENOVATION**
6555 CARISTRANO AVE.
ATASCADERO CA 93422
Sheet Title: **MECHANICAL SECTIONS**

Sheet Number
M2-2
of Sheets
PROJECT No. **417**
FILE No.

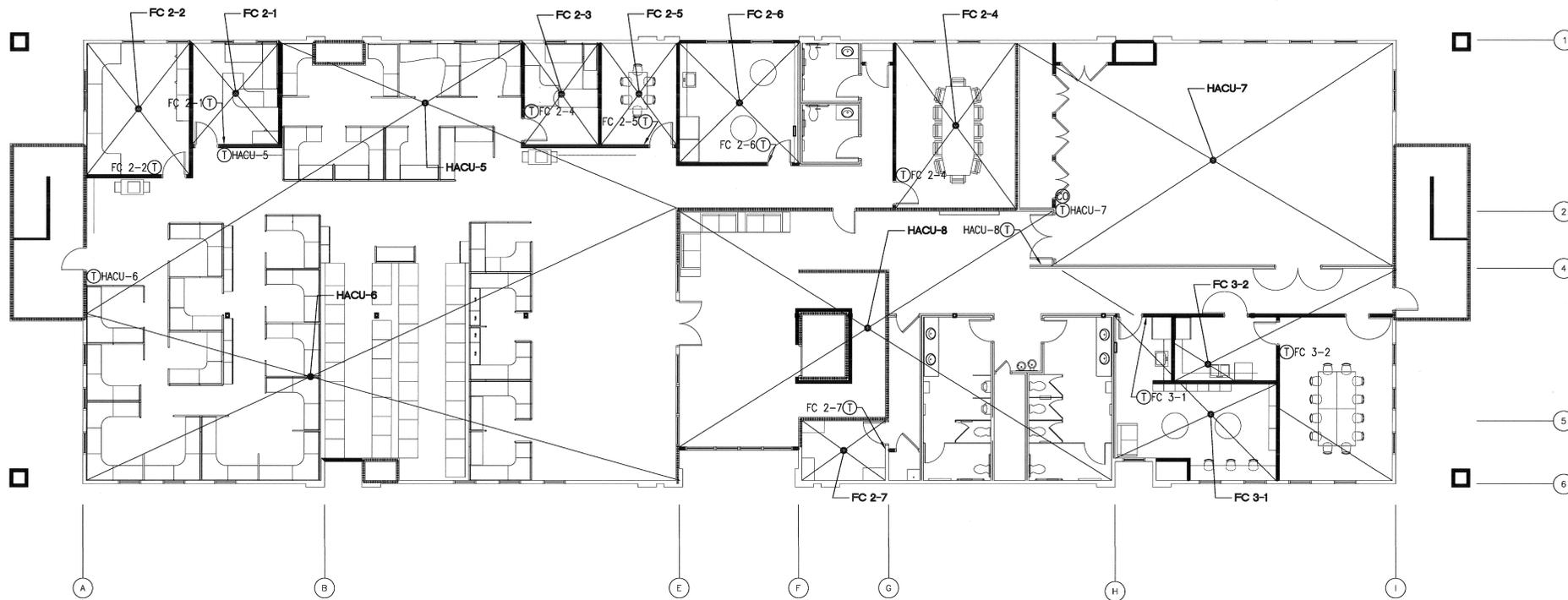
BIDDING SET 11-19-12





MECHANICAL FIRST FLOOR PLAN

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



MECHANICAL SECOND FLOOR PLAN

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



COUNTY OF
SAN LUIS OBISPO
DEPARTMENT OF
GENERAL SERVICES
1077 SANTA ROSA STREET
SAN LUIS OBISPO, CA 93408
PHONE 805.781.5500



REGISTERED PROFESSIONAL ENGINEER
JAMES E. ALBRECHT
No. 18922
Exp. 9-30-14
SANTA BARBARA, CA
STATE OF CALIFORNIA

No.	Revision	Date
1	PLANCHECK REV1	9.26.12
2	PLANCHECK REV2	10.24.12
3	PLANCHECK REV3	11.19.12

County Facility	
ATASCADERO LIBRARY RENOVATION	
6555 CAPISTRANO AVE. ATASCADERO CA 93422	
Project Manager:	M. DEMARTINI
Checked By:	MD
Client Approval:	
Date:	08/20/2012

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Project Title : ATASCADERO LIBRARY RENOVATION
6555 CAPISTRANO AVE.
ATASCADERO, CA 93422

Sheet Title : MECHANICAL ZONE PLANS

Sheet Number
M3-0

of Sheets
PROJECT No. 417

FILE No.

BIDDING SET 11-19-12

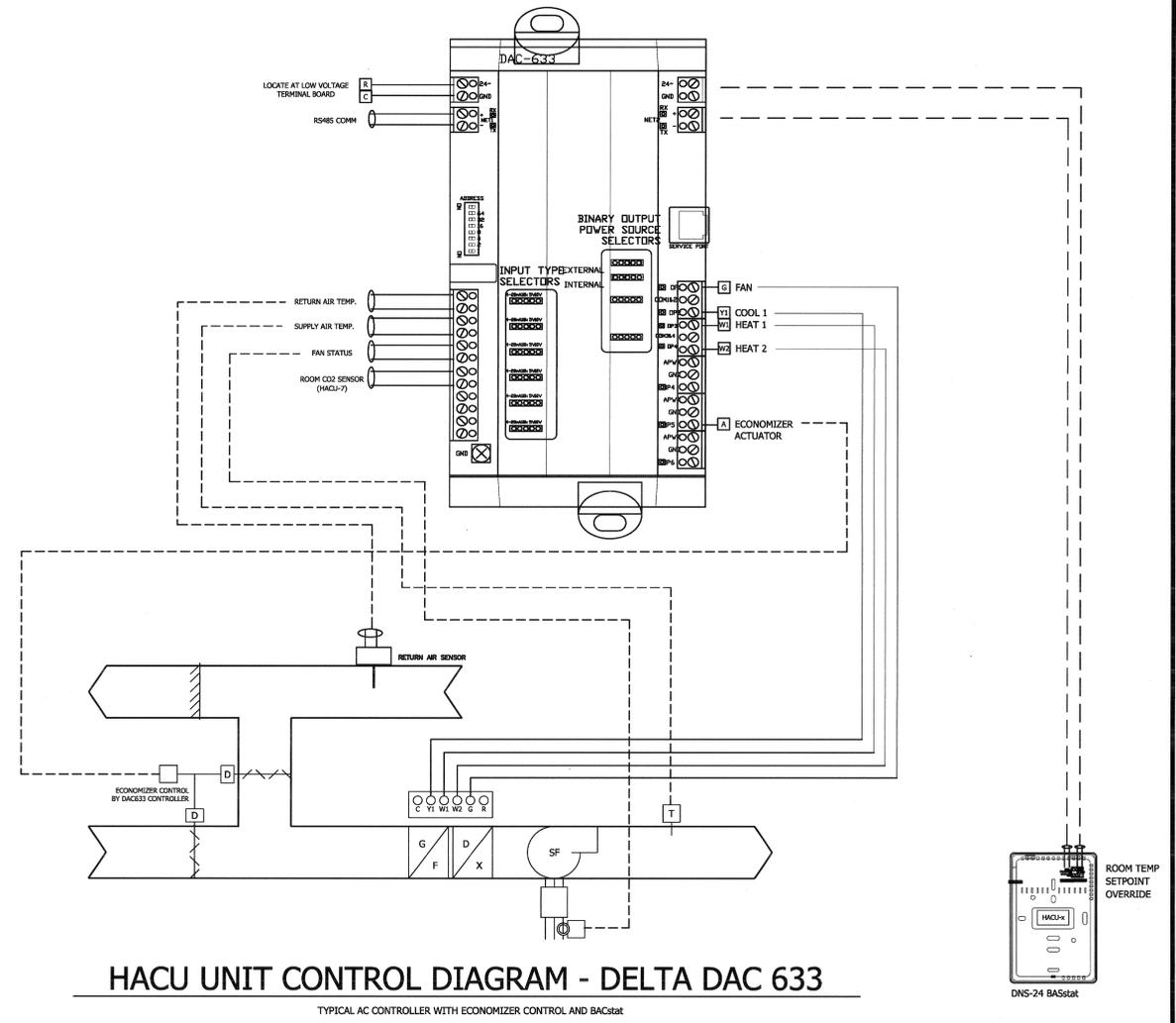
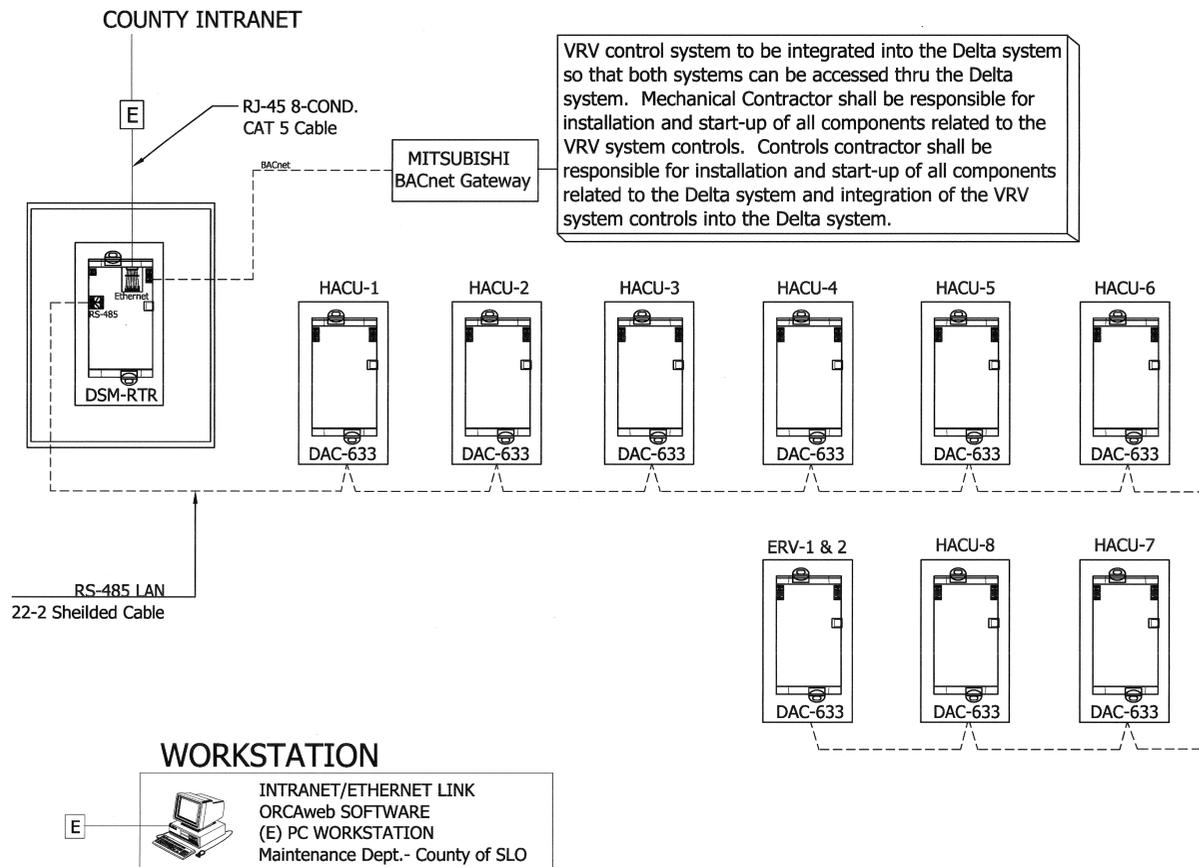
BIDDING SET 11-19-12

CONTROL SYSTEM TO BE PROVIDED BY DELTA CONTROLS. CONTACT TJ KAY-ENVIRONMENTAL SYSTEMS INC. 916-344-1711

1 SYSTEM ARCHITECTURE
ATASCADERO LIBRARY RENOVATION

HVAC CONTROLS

- GENERAL NOTES:
1. COORDINATE WITH DISTRICT IT STAFF TO PROVIDE ETHERNET CONNECTIONS AS APPLICABLE.
2. BACnet gateway device provided by equipment installer.



COUNTY OF SAN LUIS OBISPO
DEPARTMENT OF GENERAL SERVICES
1007 SANTA ROSA STREET
SAN LUIS OBISPO, CA 95408
PHONE 805.781.0200



No.	Revision	Date
1	PLANCHHECK REV1	9.26.12
2	PLANCHHECK REV2	10.24.12
3	PLANCHHECK REV3	11.19.12

County Facility:
ATASCADERO LIBRARY RENOVATION
6555 CAPISTRANO AVE.
ATASCADERO CA 93422

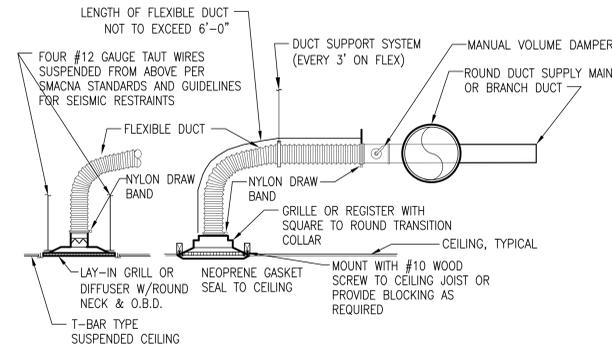
Project Manager: **M. DEMARTINI**
Checked By: **MD**
Client Approval:
Date: **08/20/2012**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title: **ATASCADERO LIBRARY RENOVATION**
Mechanical Controls

Sheet Number: **M3-1**
of Sheets
PROJECT No. **417**
FILE No.

BIDDING SET 11-19-12

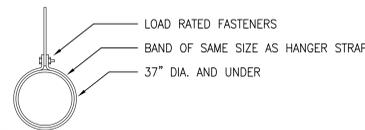


FLEXIBLE DUCT DETAIL

SCALE: NONE **1**
M4-0

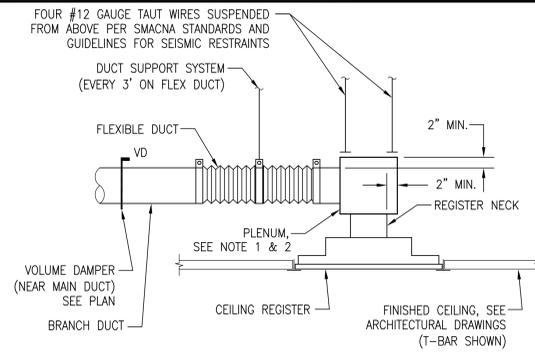
TABLE 1
HANGER STRAPS OR RODS

MAX. DUCT DIA.	HANGER	MAX. LOAD LB.	MAX. SPACING FT.	UPPER ATTACHMENT DETAIL
14"	ONE 1" x 24 GA. STRAP OR ONE 1/4" ROD	150	10	3
23"	ONE 1" x 22 GA. STRAP OR ONE 1/4" ROD	260	10	3
37"	ONE 1" x 20 GA. STRAP OR ONE 3/8" ROD	320	10	3



UPPER DUCT ATTACHMENT

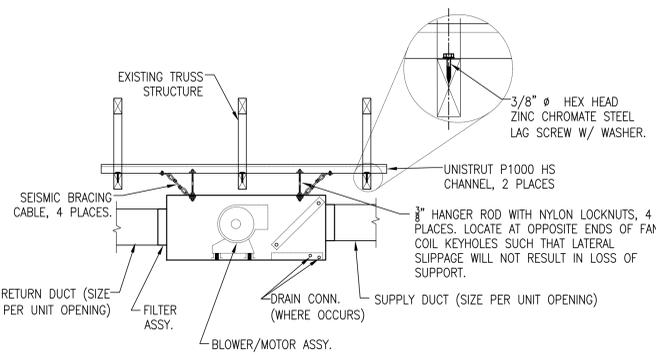
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M4-0



BOX PLENUM DETAIL

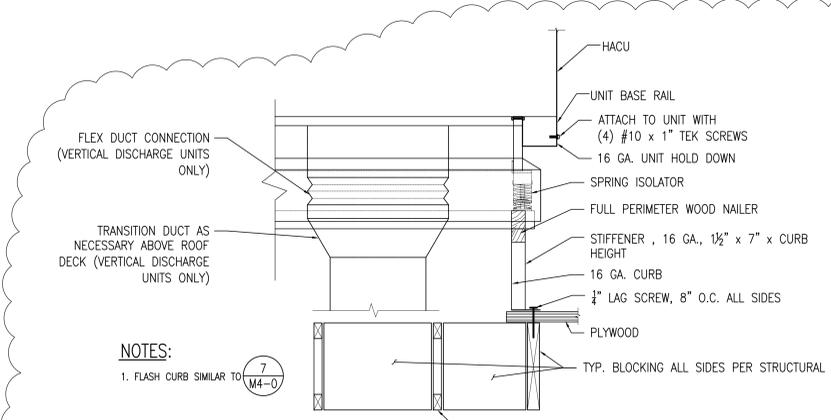
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M4-0

- NOTES:
1. EXTERNALLY INSULATE SUPPLY AIR REGISTER PLENUMS.
2. WHERE VERTICAL CLEARANCE IS SUFFICIENT TO ALLOW FLEX DUCT TO BEND AT A CENTERLINE RADIUS NOT THAN 1-1/2 TIMES DUCT DIAMETER, PLENUM MAY BE DELETED & DUCT CONNECTION MADE PER DETAIL 1, THIS SHEET.



FAN COIL SUSPENSION DETAIL

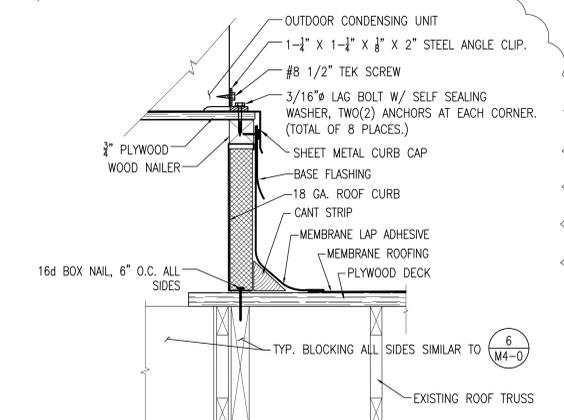
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M4-0



PRE-MANUFACTURED HACU CURB DETAIL

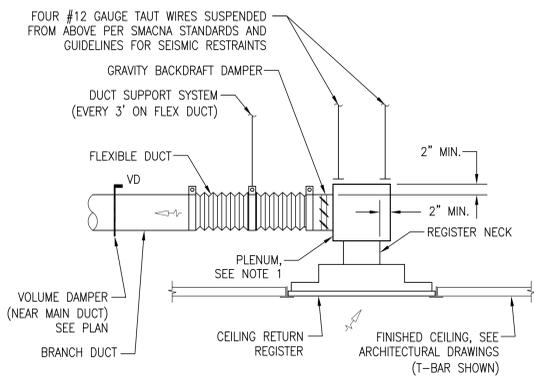
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M4-0

- NOTES:
1. FLASH CURB SIMILAR TO **7**
M4-0



CONDENSING UNIT PLATFORM CURB DETAIL

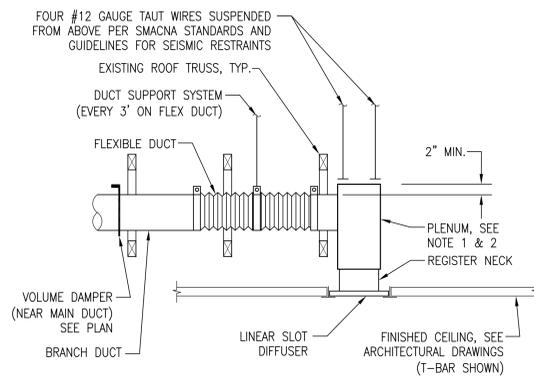
SCALE: NONE **7**
M4-0



FAN COIL BOX PLENUM DETAIL

SCALE: NONE **8**
M4-0

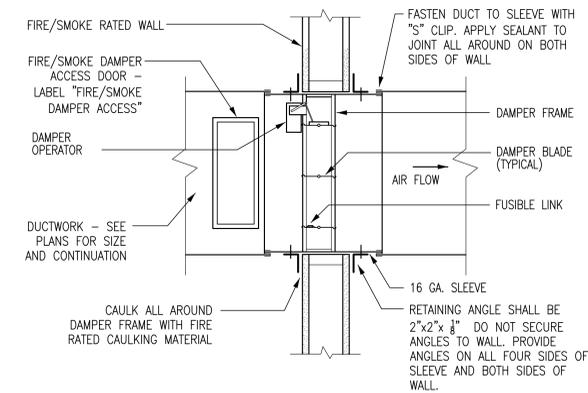
- NOTES:
1. EXTERNALLY INSULATE SUPPLY AIR REGISTER PLENUMS.



LINEAR SLOT REGISTER BOX PLENUM DETAIL

SCALE: NONE **9**
M4-0

- NOTES:
1. EXTERNALLY INSULATE SUPPLY AIR REGISTER PLENUMS.
2. SIZE PLENUM SUCH THAT DUCT CONNECTION CLEARS EXISTING ROOF STRUCTURAL MEMBERS.



FIRE/SMOKE DAMPER DETAIL

SCALE: NONE **10**
M4-0



COUNTY OF SAN LUIS OBISPO
DEPARTMENT OF GENERAL SERVICES
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA 93408
PHONE 805.785.5500



No.	Revision	Date
	PLANCHECK REV1	9.26.12
	PLANCHECK REV2	10.24.12
	PLANCHECK REV3	11.19.12
	ADDENDUM#1 REV4	12.17.12

County Facility:
ATASCADERO LIBRARY RENOVATION
6555 CAPISTRANO AVE.
ATASCADERO CA 93422

Project Manager: **M. DEMARTIN**
Checked By: **MD**
Client Approval:
Date: **06/20/2012**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title: **ATASCADERO LIBRARY RENOVATION**
6555 CAPISTRANO AVE.
ATASCADERO CA 93422
Sheet Title: **MECHANICAL DETAILS**

Sheet Number: **M4-0**
of Sheets
PROJECT No. **417**
FILE No.

BIDDING SET 11-19-12

CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 3) ENV-1C

Project Name: Atascadero Public Library, Date: 10/29/2012, Project Address: 6555 Capistrano Atascadero, Climate Zone: 4, Total Cond. Floor Area: 20,171, Addition Floor Area: n/a

GENERAL INFORMATION section with checkboxes for Building Type, Schools, Skylight Area, Phase of Construction, and Approach of Compliance.

FIELD INSPECTION ENERGY CHECKLIST table with columns for TagID, Assembly Type, Area, U-Factor, Divisibility, etc.

FENESTRATION SURFACE DETAILS table with columns for TagID, Fenestration Type, Area, Orientation, etc.

1. See Instructions in the Nonresidential Compliance Manual, page 3-96. 2. If fail, then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct.

CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 3) ENV-1C

Project Name: Atascadero Public Library, Date: 10/29/2012, Project Address: 6555 Capistrano Atascadero, Climate Zone: 4, Total Cond. Floor Area: 20,171, Addition Floor Area: n/a

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CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 3) ENV-1C

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CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 2 of 3) ENV-1C

Project Name: Atascadero Public Library, Date: 10/29/2012, Project Address: 6555 Capistrano Atascadero, Climate Zone: 4, Total Cond. Floor Area: 20,171, Addition Floor Area: n/a

ROOFING PRODUCT (COOL ROOFS) section with checkboxes for applicable requirements.

CRRC Product ID table with columns for Roof Slope, Product Weight, Product Type, etc.

1. The CRRC Product ID Number can be obtained from the Cool Roof Rating Council's Rated Product Directory at www.coolroofs.org. 2. Indicate the type of product to be used for the roof top, i.e. single-ply roof, asphalt roof, metal roof, etc.

CERTIFICATE OF COMPLIANCE AND FIELD INSPECTION ENERGY CHECKLIST (Part 3 of 3) ENV-1C

Project Name: Atascadero Public Library, Date: 10/29/2012, Project Address: 6555 Capistrano Atascadero, Climate Zone: 4, Total Cond. Floor Area: 20,171, Addition Floor Area: n/a

Required Acceptance Tests section with text regarding designer and enforcement agency responsibilities.

Enforcement Agency section with text regarding permit and compliance requirements.

Test Description table with columns for Test Description, Area of like Products, Building Envelope Acceptance Test, and Test Performed By.

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 4) MECH-1C

Project Name: Atascadero Public Library, Date: 10/29/2012, Project Address: 6555 Capistrano Atascadero, Climate Zone: 4, Total Cond. Floor Area: 20,171, Addition Floor Area: n/a

GENERAL INFORMATION section with checkboxes for Building Type, Schools, Skylight Area, Phase of Construction, and Approach of Compliance.

HVAC SYSTEM DETAILS table with columns for Equipment, Inspection Criteria, Meets Criteria or Requirements.

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1. If the Actual installed equipment performance efficiency and capacity is less than the Proposed (from the energy compliance submitted or from the building plans) the responsible party shall resubmit energy compliance to include the new changes.

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 4) MECH-1C

Project Name: Atascadero Public Library, Date: 10/29/2012, Project Address: 6555 Capistrano Atascadero, Climate Zone: 4, Total Cond. Floor Area: 20,171, Addition Floor Area: n/a

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CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 4) MECH-1C

Project Name: Atascadero Public Library, Date: 10/29/2012, Project Address: 6555 Capistrano Atascadero, Climate Zone: 4, Total Cond. Floor Area: 20,171, Addition Floor Area: n/a

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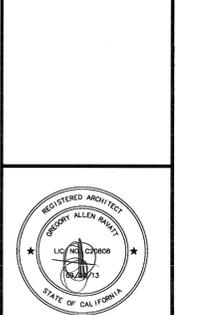
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COUNTY OF SAN LUIS OBISPO DEPARTMENT OF GENERAL SERVICES



Project Manager: M. DEMARTIN, Checked By: MD, Date: 08/20/2012

ATASCADERO LIBRARY RENOVATION, 6555 CAPISTRANO AVE. ATASCADERO CA 93422

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT, TITLE 24 DOCUMENTATION

Sheet Number T-24-2 of Sheets PROJECT No. 417 FILE No.

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 1 of 4) MECH-1C

Project Name: Atascadero Public Library, Date: 10/29/2012. GENERAL INFORMATION: Building Type: Nonresidential. HVAC SYSTEM DETAILS: Equipment: HACU-7. Field Inspection Energy Checklist: Heating Equipment Efficiency: 81% AFUE.

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 3 of 4) MECH-1C

Project Name: Atascadero Public Library, Date: 10/29/2012. Designer: This form is to be used by the designer and attached to the plans. Building Departments: Systems Acceptance: Before occupancy permit is granted for a newly constructed building or space...

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 4 of 4) MECH-1C

Project Name: Atascadero Public Library, Date: 10/29/2012. TEST DESCRIPTION: Equipment Requiring Testing or Verification. City Multi RZ System (8 ton): 2. York ZF030M4: 3.

CERTIFICATE OF COMPLIANCE and FIELD INSPECTION ENERGY CHECKLIST (Part 2 of 4) MECH-1C

Project Name: Atascadero Public Library, Date: 10/29/2012. Discrepancies: (Table with 4 columns for different system types and rows for various measures).

AIR SYSTEM REQUIREMENTS (Part 1 of 2) MECH-2C

Project Name: Atascadero Public Library, Date: 10/29/2012. MANDATORY MEASURES: Heating Equipment Efficiency: 81% AFUE. PRESCRIPTIVE MEASURES: Calculated Design Heating Load: 144(k) Btu.

AIR SYSTEM REQUIREMENTS (Part 1 of 2) MECH-2C

Project Name: Atascadero Public Library, Date: 10/29/2012. MANDATORY MEASURES: Heating Equipment Efficiency: 81% AFUE. PRESCRIPTIVE MEASURES: Calculated Design Heating Load: 144(k) Btu.

AIR SYSTEM REQUIREMENTS (Part 1 of 2) MECH-2C

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COUNTY OF SAN LUIS OBISPO DEPARTMENT OF GENERAL SERVICES

1007 SANTA ROSA STREET SAN LUIS OBISPO, CA 93408 PHONE 805.781.5200



REGISTERED ARCHITECT ROBERT ALLEN BANTA License No. 100000000 State of California

Revision table with columns: No., Revision, Date. Includes entries for PLANCHECK REV1, REV2, REV3.

County Facility: ATASCADERO LIBRARY RENOVATION. 6555 CAPISTRANO AVE. ATASCADERO CA 93422

Project Manager: M. DEMARTINI. Checked By: MD. Client Approval.

Date: 08/20/2012. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

Project Title: ATASCADERO LIBRARY RENOVATION. 6555 CAPISTRANO AVE. ATASCADERO, CA 93422

Sheet Title: TITLE 24 DOCUMENTATION

Sheet Number: T-24-3 of 4 Sheets. PROJECT No. 417. FILE No.

MECHANICAL VENTILATION AND REHEAT MECH-3C

Table with columns for Area Basis, Occupancy Basis, and Reheat Limitation. Includes rows for various zones like Office - Staff Workroom, Office - Filenets, etc.

Minimum ventilation rate per Section 9121, Table 121-A. Based on fixed seat or the greater of the expected number of occupants and 50% of the GFC occupant load for spaces without fixed seating.

MECHANICAL VENTILATION AND REHEAT MECH-3C

Table with columns for Area Basis, Occupancy Basis, and Reheat Limitation. Includes rows for various zones like Office 303, Office 302, etc.

Minimum ventilation rate per Section 9121, Table 121-A. Based on fixed seat or the greater of the expected number of occupants and 50% of the GFC occupant load for spaces without fixed seating.

MECHANICAL EQUIPMENT DETAILS (Part 1 of 2) MECH-5C

Summary tables for Chiller and Tower, DHW / Boiler, Multi-Family Central Water Heating, Central System Ratings, and Central System Fan Summary.



COUNTY OF SAN LUIS OBISPO DEPARTMENT OF GENERAL SERVICES

1007 BANTA ROAD CA 90408 PHONE 805.781.0200



REGISTERED ARCHITECT COUNTY OF SAN LUIS OBISPO



Table with columns: No, Revision, Date. Includes entries for PLANCHECK REV1, REV2, REV3.

ATASCADERO LIBRARY RENOVATION

5555 CAPSTRANO AVE. ATASCADERO CA 93422

Project Manager: M. DEMARTINI

Checked by: MD Client Approval: Date: 08/20/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title: ATASCADERO LIBRARY RENOVATION

Sheet Title: TITLE 24 DOCUMENTATION

Sheet Number: T-24-4 of 4 Sheets

PROJCT No. 417 FILE No.

BIDDING SET 11-19-12

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL ENV-MM

Table with columns for Description and ENV-MM. Includes items like Building Envelope Measures, Fenestration, and Site Constructed Doors.

MECHANICAL MANDATORY MEASURES: NONRESIDENTIAL MECH-MM

Table with columns for Equipment and System Efficiencies, Controls, Ventilation, and Service Water Heating Systems.

Table with columns: TAG, WASTE, VENT, COLD, HOT, ITEM, DESCRIPTION. Includes fixture schedule for Water Closet (Non-ADA), Water Closet (ADA), Urinal (ADA), Lavatory, Wash Sink, Double Basin Kitchen Sink, Kitchen Sink, Hand Wash Sink, Janitor Sink, Drinking Fountain, Floor Drain, Trap Primer Valve, Floor Cleanout, Wall Cleanout, Floor Drain, Clean Out to Grade, Floor Sink.

NOTE: 1. ALL FAUCETS SHALL HAVE WATER SAVING FLOW RESTRICTORS OR APPROVED EQUAL. 2. PENETRATIONS OF FIRE RESISTIVE WALLS SHALL BE PROTECTED AS REQUIRED IN USC SECTIONS 709 & 710.

INDOOR WATER USE BASELINE (CGSBC, TABLE 530322)

Table with columns: FIXTURE TYPE, FLOW RATE, DURATION, DAILY USES, OCCUPANTS, WATER USE. Includes rows for Lavatory, Sinks, Flush Valves, Urinals.

TOTAL = 73 CW F/U

INDOOR WATER USE - DESIGN

Table with columns: FIXTURE TYPE, FLOW RATE, DURATION, DAILY USES, OCCUPANTS, WATER USE. Includes rows for Lavatory, Sink, Flush Valves, Urinals.

20% REDUCTION FROM BASELINE WATER USE = 3,885.8 - (3,885.8 * 0.2) = 3,108.6

2,782.0 < 3,108.6 DESIGN WATER-USE IS LESS THAN BASELINE BY GREATER THAN 20%

DOMESTIC WATER CALCULATION (COUNTY)

Table with columns: ITEM, VALUE. Includes rows for Total Fixture Units, Total G.P.M., Pressure Available, Loss Thru Meter, Loss Thru BFP, Highest Fixture Above Meter, Minimum Pressure Required, Calculated Developed Length, Type of Material, Pressure Loss per 100 ft.

(EXISTING 2" DOMESTIC WATER LINES)

TABLE 7-5: SIZE OF PIPE, INCHES. MAXIMUM UNITS DRAINAGE PIPING. HORIZONTAL VERTICAL. MAXIMUM LENGTHS DRAINAGE PIPING. HORIZONTAL (UNLIMITED). VENT PIPING. HORIZ. & VERT. MAXIMUM UNITS. MAX. LENGTHS, FEET.

TRAP PRIMER DISTRIBUTION UNIT. MAX WATER DELIVERY. PRIMER MODEL. NO. OF SUPPLY TUBES. DIST. UNIT. WATER DELIVERY BASED UPON PRESSURE DROP. PR-500 PRIME-RITE. 1 N/A N/A. 2 N/A DU-U. 3 N/A DU-U. 4 N/A DU-U or DU-U.

HORIZONTAL LENGTHS OF TRAP ARMS (EXCEPT FOR WATER CLOSET AND SIMILAR FIXTURES)

TABLE 10-1: TRAP ARM PIPING DIAMETER, TRAP ARM PIPE TO VENT DISTANCE, LENGTH MAXIMUM. Includes rows for 1-1/4", 1-1/2", 2", 3", 4" diameters.

LIBRARY WATER DEMAND LOAD

Table with columns: FIXTURE, No., CW F/U, TTL, HW F/U, TTL, CW/HW COMB. Includes rows for WC-1, WC-2, LAV-1, SK-4.

WEST SIDE - FIRST STORY

Table with columns: FIXTURE, No., CW F/U, TTL, HW F/U, TTL, CW/HW COMB. Includes rows for WC-1, WC-2, UR-1, LAV-1, JS-1, DF-1.

WEST SIDE - SECOND STORY

Table with columns: FIXTURE, No., CW F/U, TTL, HW F/U, TTL, CW/HW COMB. Includes rows for WC-1, WC-2, UR-1, LAV-1, SK-2, JS-1, DF-1.

DRAINAGE FIXTURE UNIT (D.F.U.) TABULATION:

Table with columns: EAST SIDE - FIRST STORY, WEST SIDE - FIRST STORY, WEST SIDE - SECOND STORY (MIDDLE), WEST SIDE - SECOND STORY, OVERALL TOTAL.

COUNTY SEWER DEMAND LOAD

Table with columns: FIXTURE, No., F/U EACH, TOTAL. Includes rows for WC-2, LAV-1, SK-3, ED.

WATER DEMAND LOAD

Table with columns: FIXTURE, No., CW F/U, TTL, HW F/U, TTL, CW/HW COMB. Includes rows for WC-1, WC-2, LAV-1, SK-4.

LIBRARY SEWER DEMAND LOAD

Table with columns: FIXTURE, No., F/U EACH, TOTAL. Includes rows for WC-1, WC-2, LAV-1, SK-4, ED, DF-1.

WEST SIDE - FIRST STORY

Table with columns: FIXTURE, No., F/U EACH, TOTAL. Includes rows for WC-1, WC-2, UR-1, LAV-1, JS-1, ED.

WEST SIDE - SECOND STORY

Table with columns: FIXTURE, No., F/U EACH, TOTAL. Includes rows for WC-1, WC-2, UR-1, LAV-1, SK-2, JS-1, ED.

EXISTING 4" SEWER LINES

Table with columns: TABLE 7-5, 3" PIPE = 35 D F/U, 4" PIPE = 216 D F/U @ 1/4" SLOPE.

LIBRARY DOMESTIC WATER CALCULATION

Table with columns: ITEM, VALUE. Includes rows for Total Fixture Units, Total G.P.M., Pressure Available, Loss Thru Meter, Loss Thru BFP, Highest Fixture Above Meter, Minimum Pressure Required, Calculated Developed Length, Type of Material, Pressure Loss per 100 ft.

(EXISTING 2" DOMESTIC WATER LINES)

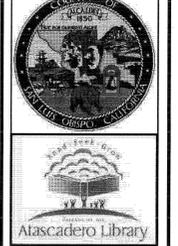
LEGEND/SYMBOLS: SYMBOL, SYSTEM, ABBREVIATION. Includes rows for Gate Valve, Ball Valve, Butterfly Valve, Globe Valve, Angle Valve, Check Valve-Swing Type, Plug Valve (Gas Cook), Plug Valve (Gas Cook), Outside Screw & Yoke Gate Valve, Back Flow Preventer Double Check Valve, Back Flow Preventer Reduced Pressure Type, Pressure Relief Valve, Trap Primer Valve, Pressure Reducing Valve, Supervised Valve, Solenoid Valve, Strainer, Check Valve-Water Type, Point of Connection, Point of Disconnection, Plugged Tee, Concentric Reducer, Eccentric Reducer, Riser Down (Elbow), Riser Up (Elbow), Riser or Drop (Pipe Run), Branch - Top Connection, Branch - Bottom Connection, Branch - Side Connection, Capped/Plugged Pipe End, Tee Up, Tee Down, Recessed Box Hose Bib or Wall Hydrant, Drain (All Types) Specify on Plans, Union - Screwed, Union - Flanged, Floor Cleanout, Cleanout Plug, Yard Cleanout (or) Cleanout to Grade, Cleanout Exterior, Wall Cleanout, Existing Pipe to be Demo.

PLUMBING PIPING SYMBOLS

Table with columns: SYMBOL, MEANING, ABBREVIATION. Includes rows for Vent Pipe, Sewer Line (Under Ground), Sewer Line (Above Ground), Cold Water, Hot Water, Condensate Drain, Indirect Drain, Electrical, Gas (Natural), Storm Drain, Storm Drain Overflow, Existing Pipe to be Demo.

ABBREVIATIONS: ABBREVIATION, MEANING. Includes rows for AT, ABOVE, ABOVE FINISHED FLOOR, APPROX, ARCHITECTURAL, BELOW, BUILDING, BOTTOM OF PIPE, BRITISH THERMAL UNIT, CONTROL PANEL, CONDENSATE DRAIN, CUBIC FEET PER HOUR, CUBIC FEET PER MINUTE, CLEANOUT, CLEANOUT TO GRADE, COLUMN, CONDENSATE, CONDENSATE RETURN, DEMOLITION, DISCONNECT, DOWN, DOMESTIC WATER HEATER, DRAIN WASTE VENT, ELECTRICAL, ELEVATION, EXISTING, FORCED AIR UNIT, FLOOR CLEAN OUT, FEMALE IRON PIPE, FLOOR, FROM, FAR SIDE, FLOOR DRAIN, FLOOR SINK, GAS, GALLONS PER HOUR, GALLONS PER MINUTE, GALLONS PER FLUSH, HOSE BIB, HEADER, HORSE POWER, HAND SINK, L OR LV, MAXIMUM, MANUFACTURE OR MANUFACTURER, MINIMUM, MALE IRON PIPE, NEW, NOT IN CONTRACT, NATIONAL PIPE THREAD, NEAR SIDE, NOT TO SCALE, PLUS OR MINUS, POUNDS, PLUMBING, PLACES, POINT OF CONNECTION, POINT OF DISCONNECTION, POINT OF TRANSITION, PRESSURE, PRESSURE RELIEF VALVE, PIPE SUPPORT, POUNDS PER SQUARE INCH, REFERENCE, ROOM, SEPARATOR, SHEET METAL, SHUT-OFF VALVE, SPECIFICATIONS, STRAINER, SWITCH, STAINLESS STEEL, SINK, THERMOSTAT, TO BE REMOVED, THICK, TYPICAL, TRAP PRIMER VALVE, TEMPERATURE PRESSURE RELIEF VALVE, UNLESS NOTED OTHERWISE, UNIFORM PLUMBING CODE, VENT THROUGH ROOF, WIDE, WITH, WATER COLUMN, WATER HEATER, WEIGHT, WATER.

- GENERAL NOTES: 1. ALL WORK TO COMPLY WITH THE 2010 CALIFORNIA PLUMBING CODE AND 2010 UNIFORM PLUMBING CODE AND ALL CALIFORNIA STATE AND LOCAL AMENDMENTS AND ORDINANCES. 2. DRAIN, WASTE, AND VENT (DWV) PIPING ABOVE GROUND, CAST IRON, NO HUB FITTING AND BELOW GROUND SHALL BE PVC. 3. ALL WATER PIPING BELOW SLAB SHALL BE TYPE K COPPER. IT IS RECOMMENDED THAT NO UTILITY PIPING BE INSTALLED WITHIN ANY CONCRETE POUR. 4. ALL WATER PIPING ABOVE SLAB SHALL BE TYPE L COPPER. NO TYPE M COPPER SHALL BE USED. 5. ALL SOLDER FOR WATER PIPE SHALL BE LEAD FREE. 6. HOT WATER PIPE SHALL BE INSULATED WITH 1" OF FOAM INSULATION. 7. ALL HOT WATER AND DRAIN PIPES EXPOSED SHALL BE INSULATED TO MEET CALIFORNIA TITLE 24 AND FEDERAL AMERICANS WITH DISABILITIES ACT REQUIREMENTS. 8. LOCATE PLUMBING VENTS A MINIMUM OF 10' FROM AC/FAN FRESH AIR GRILLS. 9. UNDERGROUND WATER PIPE OUTSIDE THE BUILDING, POLYVINYL CHLORIDE (PVC) SCH. 40 WITH SOCKET FITTINGS, ASTM D 1785, ASTM D 2467 SCH. 80 FOR THREADED FITTINGS, ASTM D 1785, ASTM D 2464. 10. ABOVE GROUND GAS PIPE AND FITTINGS CARBON STEEL BLACK PIPE A-53 SCHEDULE 40, MALLEABLE IRON THREADED FITTINGS, TEFLOX TAPE FOR EXTERNAL THREAD. 11. UNDERGROUND NATURAL GAS PIPE AND FITTINGS POLYETHYLENE (PE) NATURAL GAS YARD PIPING ASTM D2513-88A WITH HEAT FUSED JOINTS. 12. VENT FLASHING: PER ARCHITECTURAL ROOFING DETAIL. 13. PERFORM ALL TESTS TO DEMONSTRATE THE INTEGRITY OF THE SYSTEMS TO THE SATISFACTION OF THE OWNER AND THE AUTHORITIES HAVING JURISDICTION. 14. THE DRAWINGS INDICATE THE EXTENT AND ARRANGEMENT OF THE PLUMBING SYSTEMS. PROVIDE WORK AND MATERIALS WHICH ARE NOT SPECIFICALLY MENTIONED BUT WHICH MAY BE REASONABLY ASSUMED NECESSARY FOR THE COMPLETION OF THE WORK AT NO ADDITIONAL COST TO THE OWNER. 15. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITY SERVICES DURING INSTALLATION OF PLUMBING SYSTEMS. THE DRAWINGS SHOW DIAGRAMMATICALLY THE APPROXIMATE LOCATION OF UTILITIES WHERE INFORMATION IS AVAILABLE. BUT THE DRAWINGS ARE NOT EXACT AS TO THE QUANTITY, EXTENT OR LOCATION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING ALL PHASES OF THE WORK TO LOCATE, IDENTIFY AND PROTECT EXISTING UTILITIES. THE CONTRACTOR SHALL RECORD LOCATION OF AND REPAIR DAMAGE TO EXISTING UTILITIES WHICH ARE ENCOUNTERED AS A RESULT OF WORK UNDER THIS CONTRACT. 16. ALL MATERIALS SHALL BE NEW AND OF COMMERCIAL GRADE AND BEAR UNDERWRITER'S AND UNION LABELS WHERE SUCH LABELING APPLIES. 17. ALL WORK SHALL CONFORM TO LOCAL CODES. 18. ALL CLEANOUTS SHALL BE ACCESSIBLE. 19. PLUMBER SHALL COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & MOUNTING HEIGHT OF PLUMBING FIXTURES, DRAINS, ETC. 20. BEFORE BEGINNING ANY WORK THE CONTRACTOR SHALL THOROUGHLY EXAMINE & VERIFY ALL EXISTING CONDITIONS, POINTS OF CONNECTIONS, SIZES, ELEVATIONS, LOCATIONS, ETC. NOTIFY OWNER OF ANY DISCREPANCIES BEFORE STARTING WORK. 21. PROVIDE INDIVIDUAL STOPS AT EACH FIXTURE EXCEPT WHERE SHOWN ON DRAWINGS. 22. PROVIDE A MINIMUM OF 24 INCHES CLEARANCE FOR RODDING OF CLEANOUTS. 23. ALL NEW WASTE LINES SHALL SLOPE NOT LESS THAN 1/4" PER FOOT (2%). 24. THROUGH PENETRATION OF FIRE-RATED WALLS AND CEILINGS SHALL BE FIRE STOPPED WITH MATERIALS AND METHODS CONFORMING TO UNDERWRITERS LABORATORIES LISTED ASSEMBLIES AS FOLLOWS: o METAL PIPE THROUGH 1 HOUR WALL ASSEMBLY - UL NO. WL1054 o MEMBRANE PENETRATIONS SHALL BE SIMILARLY FIRE STOPPED. 25. BACKFLOW PREVENTION ASSEMBLIES SHALL BE APPROVED BY THE UNIVERSITY OF CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH. TO OBTAIN A COPY OF THE APPROVED LIST, CONTACT THE CITY OF ATASCADERO WATER DEPARTMENT, OR THE UNIVERSITY OF SOUTHERN CALIFORNIA AT (213) 740-2032. 26. LIDS FOR WATER METER BOXES SHALL BE BROOKS SP SERIES OR EQUAL. 27. ALL WORK PERFORMED WITHIN PUBLIC STREET, ALLEY OR UTILITY EASEMENT REQUIRES AN ENCROACHMENT PERMIT ISSUED AT THE ATASCADERO ENGINEERING OFFICE. PENETRATIONS OF FIRE RESISTIVE WALLS SHALL BE PROTECTED AS REQUIRED IN USC SECTIONS 709 & 710.



COUNTY OF SAN LUIS OBISPO DEPARTMENT OF GENERAL SERVICES 1027 SANTA ROSA STREET SAN LUIS OBISPO, CA 93408 PHONE 805/7623000



ATASCADERO LIBRARY RENOVATION 6555 CASTRANO AVE. ATASCADERO, CA 93422

Table with columns: No., Revision, Date. Includes rows for Plancheck Rev 1, 2, 3.

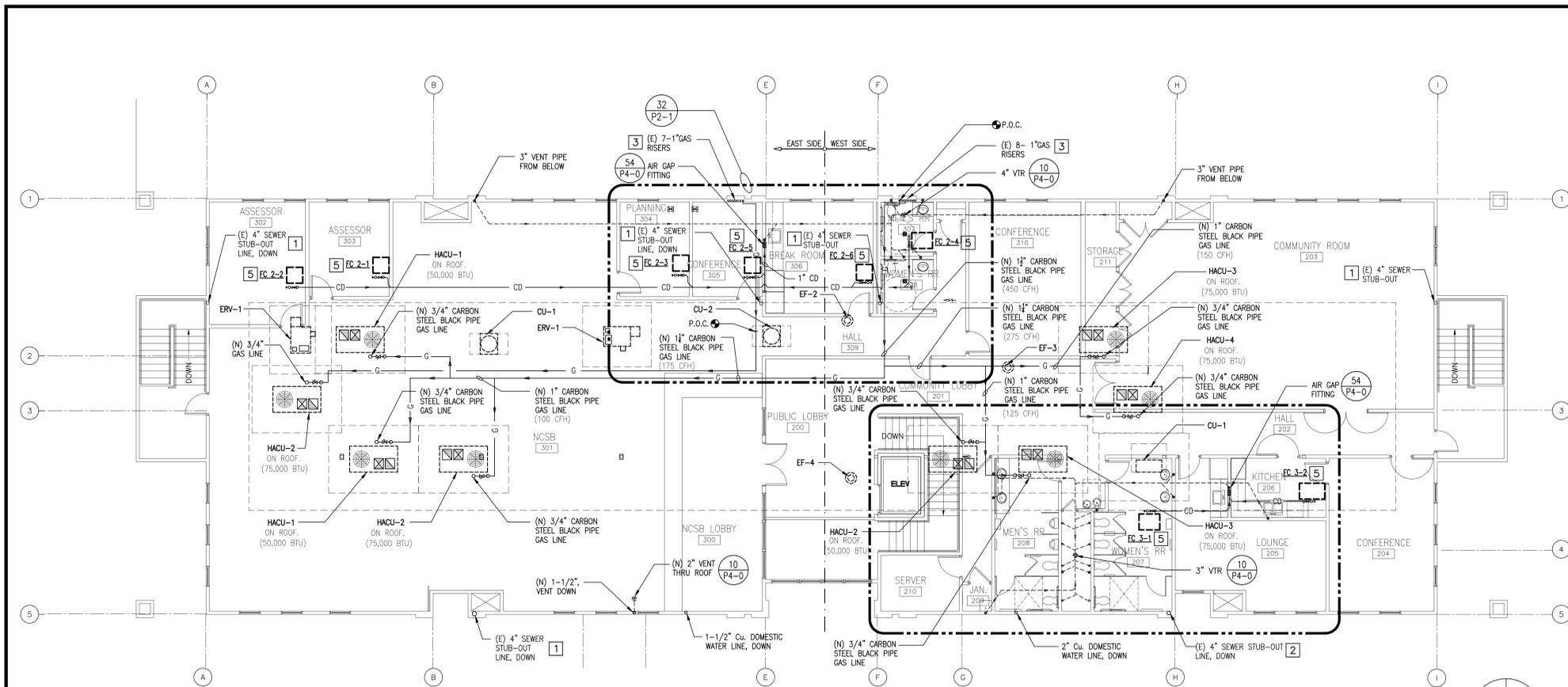
Project Manager: M. DEMARTINI, Checked By: MD, Date: 08/20/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title: ATASCADERO LIBRARY RENOVATION, Sheet Title: PLUMBING NOTES, LEGENDS, SCHEDULES, AND ABBREVIATIONS

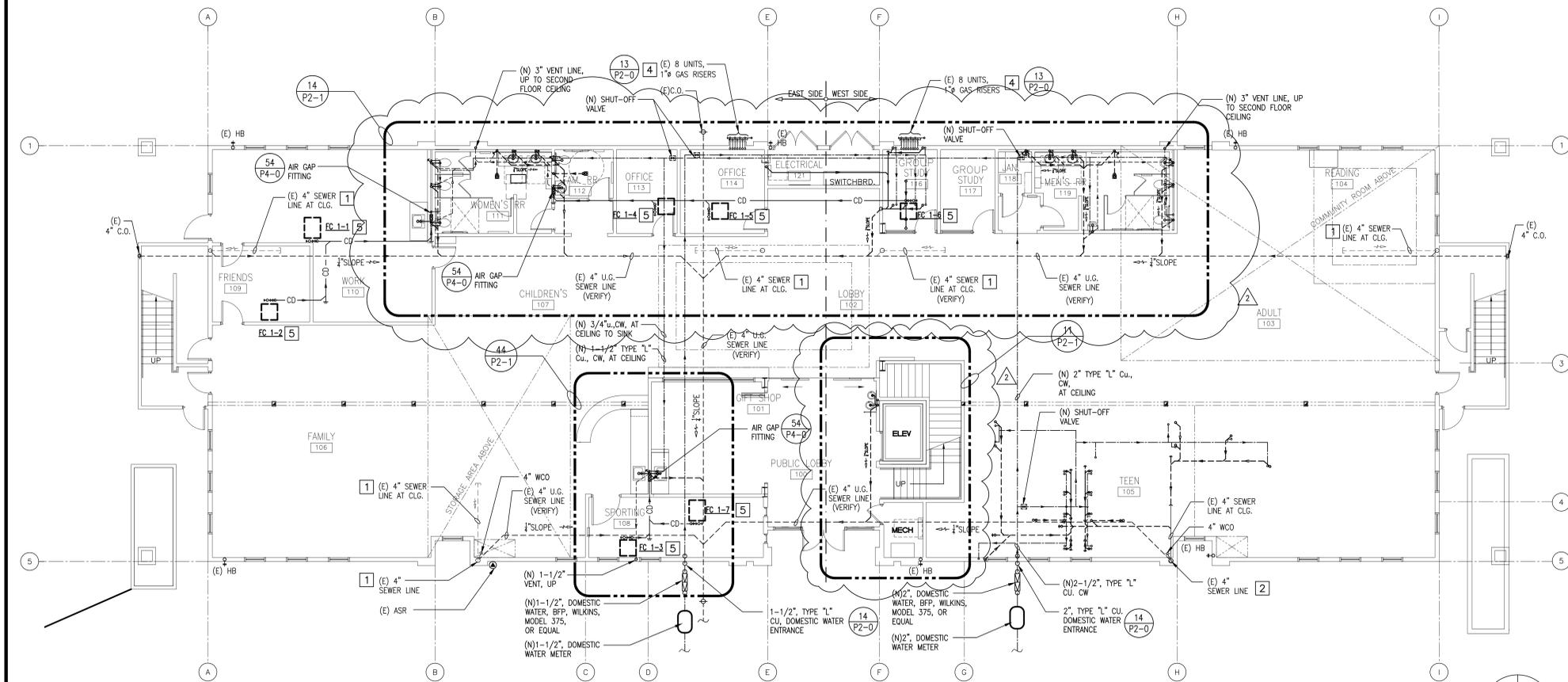
Sheet Number P1-0 of 10 Sheets, PROJECT NO. 417, FILE No.

BIDDING SET 11-19-12



SECOND STORY - PLUMBING LAYOUT

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



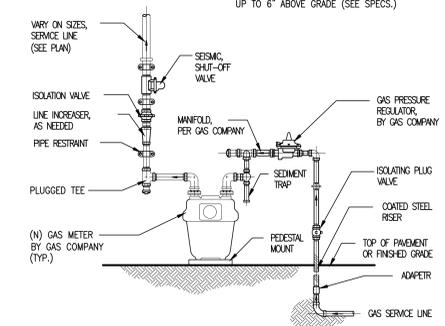
FIRST STORY - PLUMBING LAYOUT

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

- 1 EXISTING 4" SEWER LINE TO BE REMOVED CAP AT POINT OF CONNECTION.
- 2 EXISTING 4" SEWER LINE TO REMAIN, FOR NEW SEWER CONNECTION.
- 3 DEMO. EXISTING UN-USED GAS LINE COMPLETELY.
- 4 PROVIDE (N) GAS METER AND REGULATOR, PER GAS COMPANY.
- 5 CONNECT SECONDARY DRAIN PIPE TO FAN COIL SECONDARY CONDENSATE DRAIN CONNECTION. PIPE TO NEAREST SINK OR FLOOR DRAIN. DISCHARGE SHALL BE AT A VISIBLE LOCATION. PROVIDE ESCUTCHEON AT ALL CEILING/WALL PIPE PENETRATIONS.

KEY NOTES

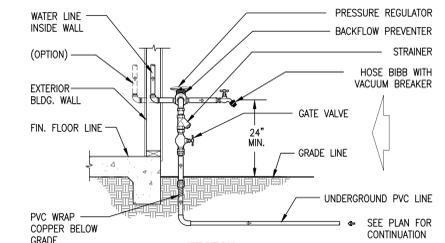
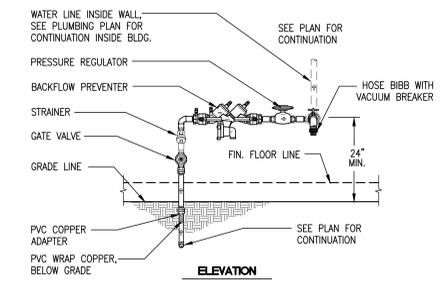
- NOTES:
1. FOR GAS METER AND REGULATOR LOCATIONS, SEE PLUMBING SITE PLAN.
 2. GAS LINE SHALL HAVE INSULATED WRAPPING UP TO 6" ABOVE GRADE (SEE SPECS.)



GAS METER ENTRANCE

DETAIL (TYP.)

SCALE: NONE



WATER SERVICE ENTRANCE

DETAIL (TYP.)

SCALE: NONE



COUNTY OF SAN LUIS OBISPO
DEPARTMENT OF GENERAL SERVICES
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA 93408
PHONE: 805.776.6000



No.	Revision	Date
ADDENDUM#1	REV4	12.17.12
ADDENDUM#2	REV5	1.10.13

County Facility:		
ATASCADERO LIBRARY RENOVATION		
6555 CARPSTRANO AVE. ATASCADERO, CA 93422		
Project Manager:	M. DEMARTIN	
Checked By:	MD	
Client Approval:		
Date:	08/20/2012	

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title : ATASCADERO LIBRARY RENOVATION
6555 CARPSTRANO AVE.
ATASCADERO, CA 93422

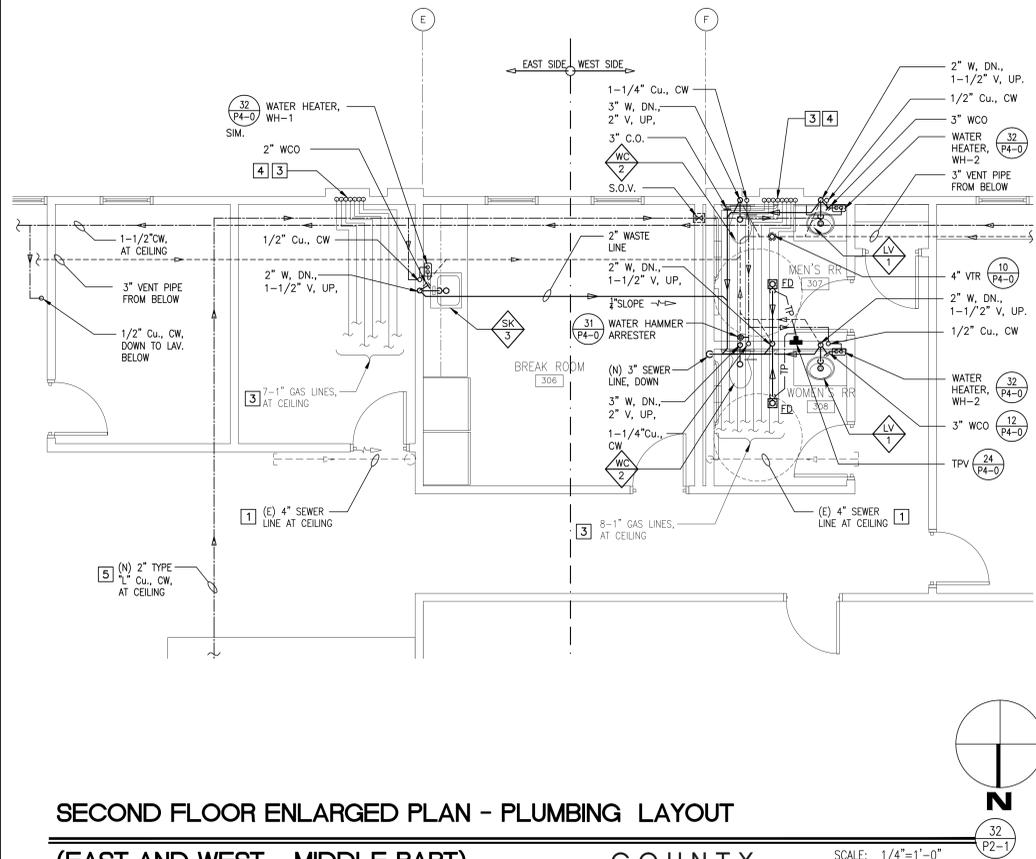
Sheet Title : PLUMBING FLOOR PLANS

Sheet Number	P2-0
of Sheets	PROJECT No. 417
FILE No.	

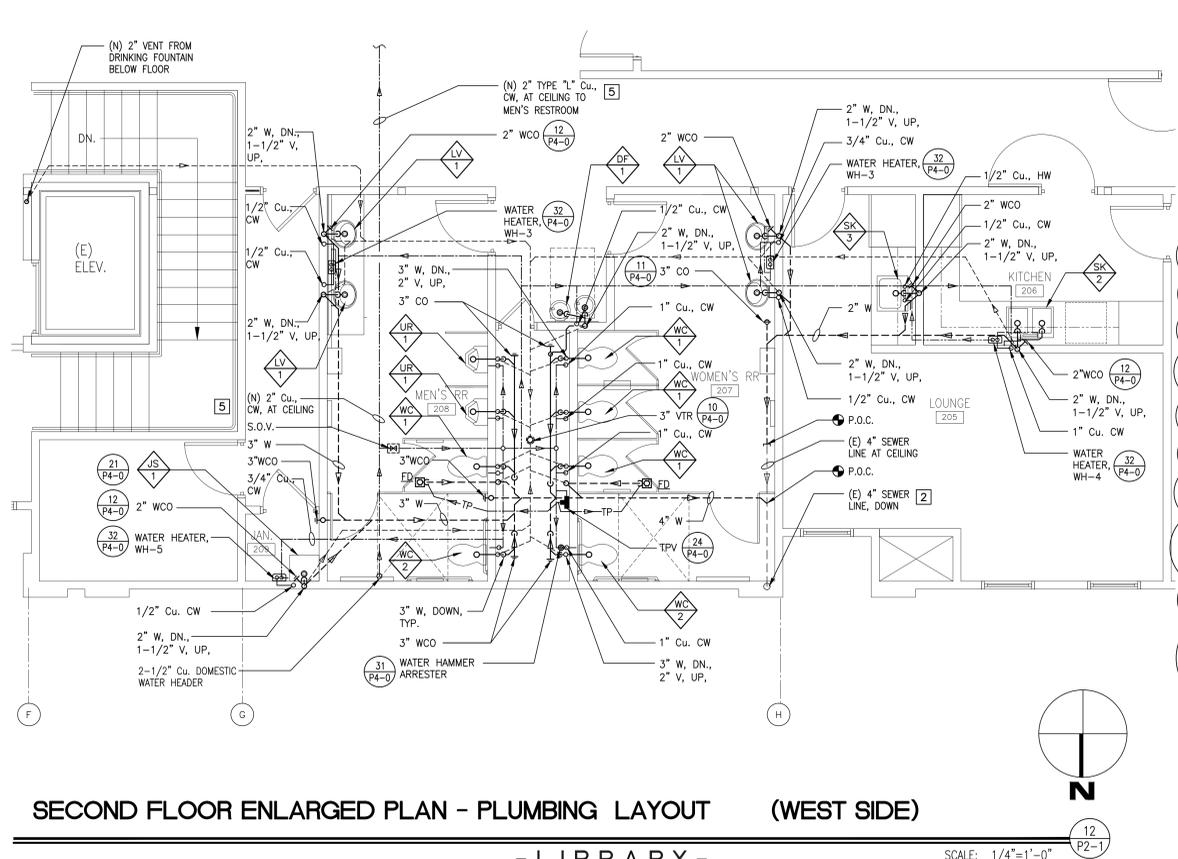
BIDDING SET 11-19-12

- 1 EXISTING 4" SEWER LINE TO BE REMOVED CAP AT POINT OF CONNECTION.
- 2 EXISTING 4" SEWER LINE TO REMAIN, FOR NEW SEWER CONNECTION.
- 3 DEMO. EXISTING UN-USED GAS LINE COMPLETELY.
- 4 PROVIDE (N) GAS METER AND REGULATOR, PER GAS COMPANY.
- 5 ALL EXPOSED DOMESTIC WATER LINES SHOULD BE INSULATED.

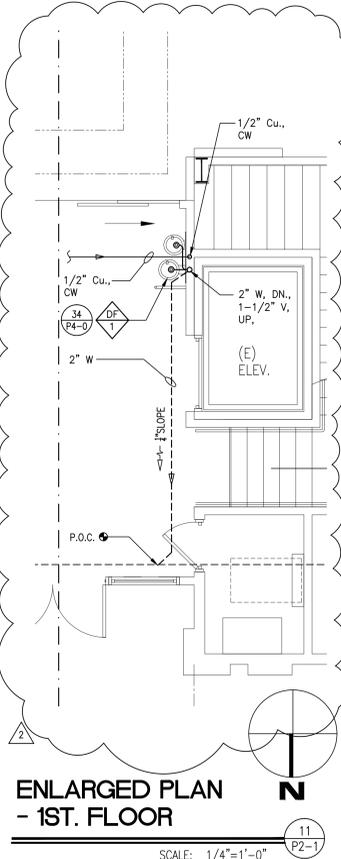
KEY NOTES



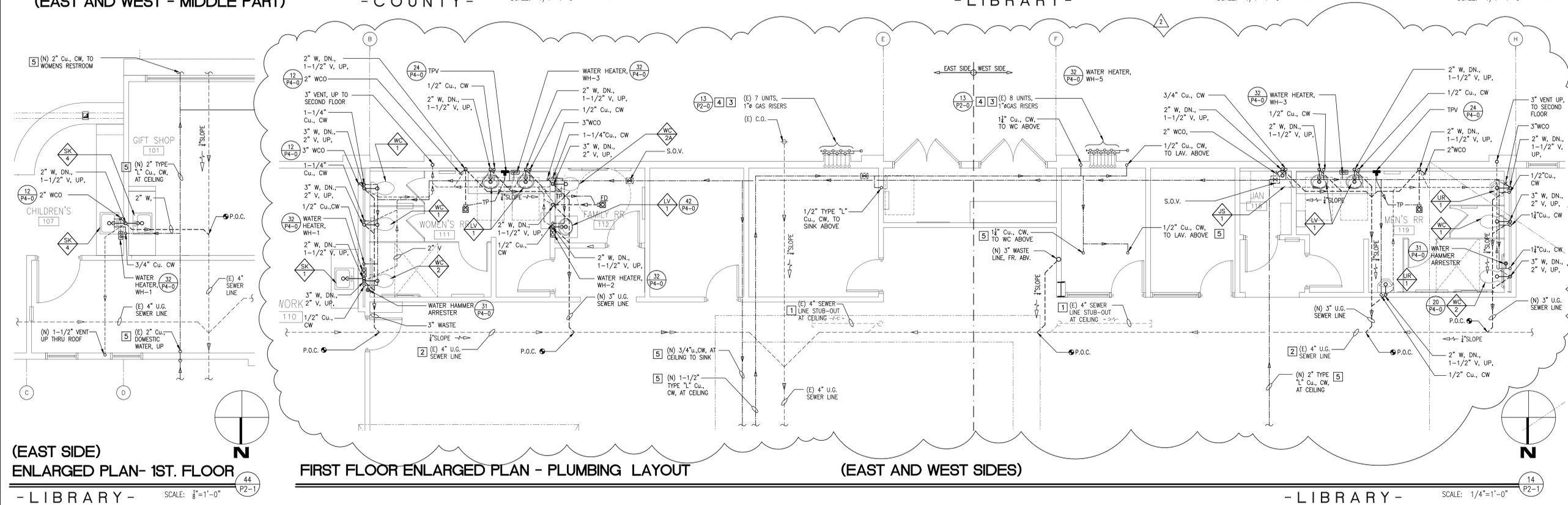
SECOND FLOOR ENLARGED PLAN - PLUMBING LAYOUT (EAST AND WEST - MIDDLE PART) - COUNTY -



SECOND FLOOR ENLARGED PLAN - PLUMBING LAYOUT (WEST SIDE) - LIBRARY -



ENLARGED PLAN - 1ST. FLOOR

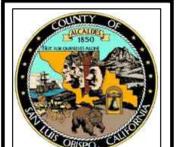


(EAST SIDE) ENLARGED PLAN- 1ST. FLOOR - LIBRARY -

FIRST FLOOR ENLARGED PLAN - PLUMBING LAYOUT

(EAST AND WEST SIDES)

- LIBRARY -



COUNTY OF SAN LUIS OBISPO DEPARTMENT OF GENERAL SERVICES

1007 SANTA ROSA STREET SAN LUIS OBISPO, CA 95068



REGISTERED PROFESSIONAL ENGINEER JAMES B. ALBRECHT

No.	Revision	Date
ADDENDUM#1	REV4	12.17.12
ADDENDUM#2	REV5	1.10.13

County Facility: ATASCADERO LIBRARY RENOVATION

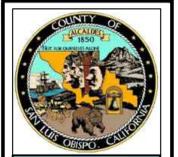
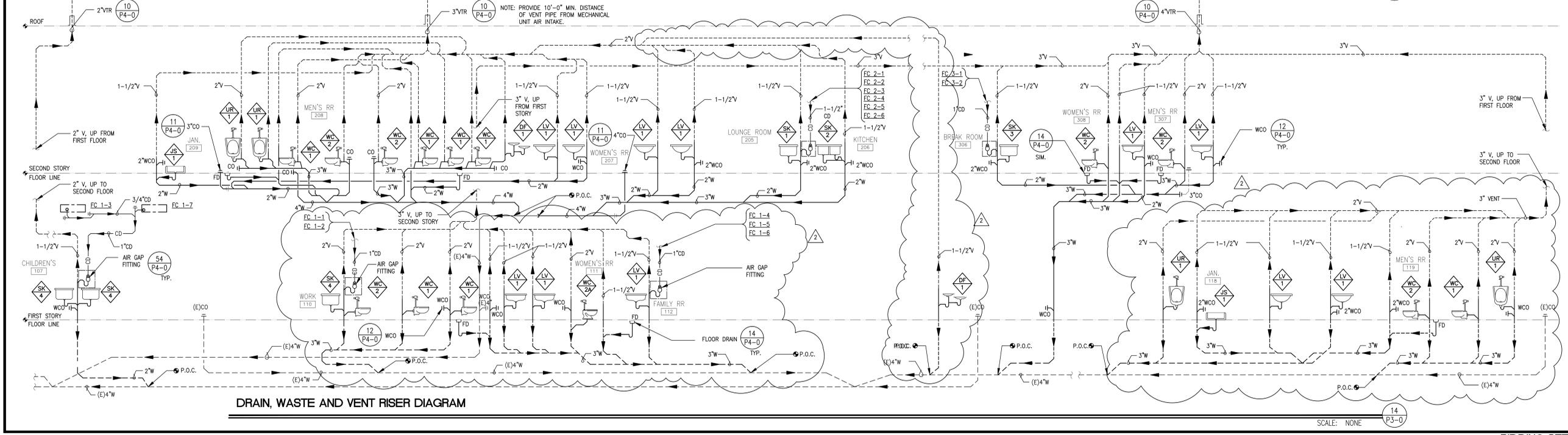
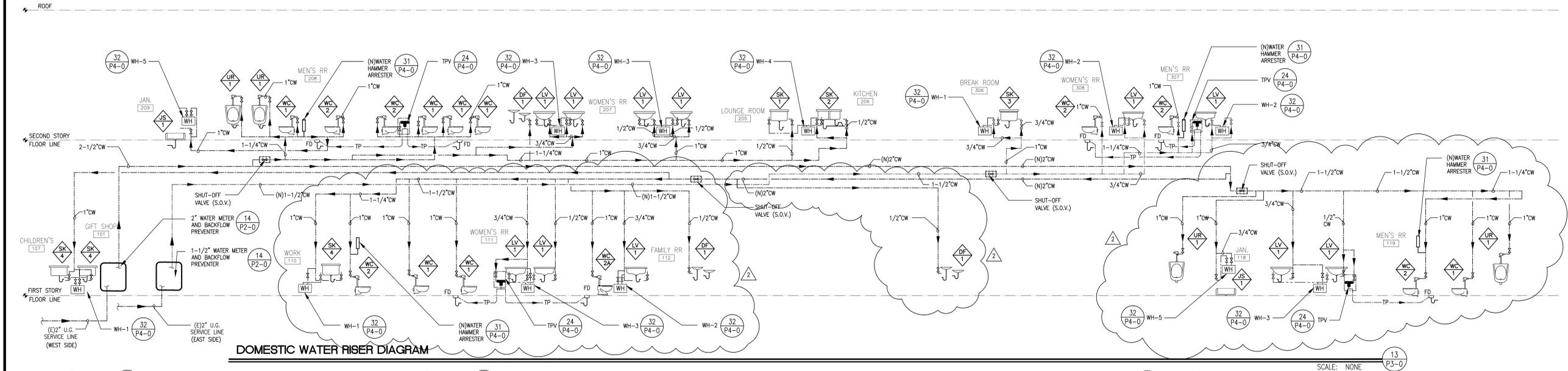
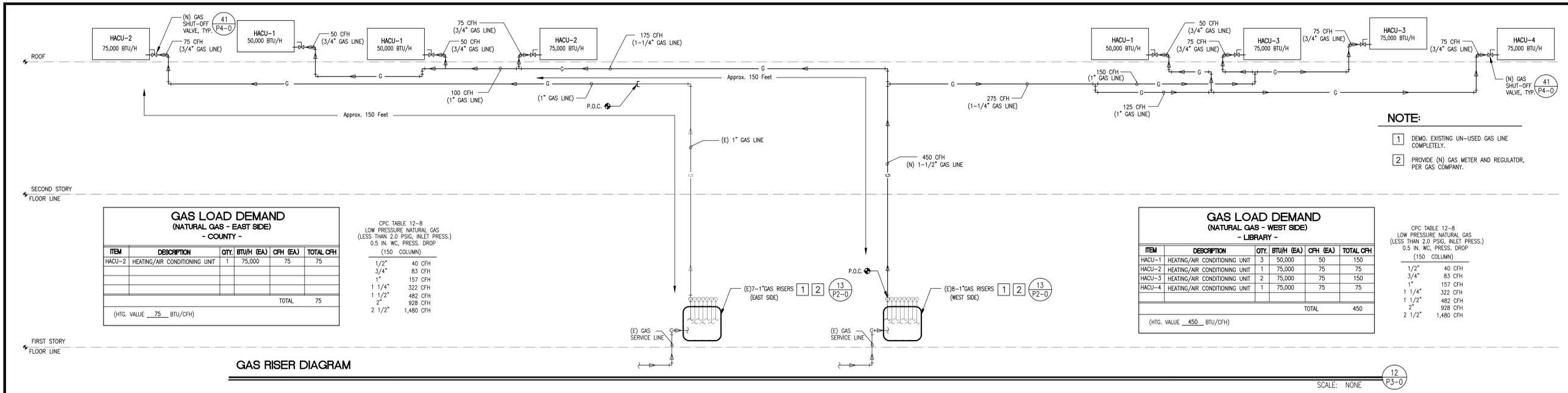
Project Manager: M. DEMARTIN, Checked By: MD, Date: 08/20/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

Project Title: ATASCADERO LIBRARY RENOVATION, Sheet Title: ENLARGED PLUMBING FLOOR PLANS

Sheet Number P2-1, of 47 sheets, Project No. 417

BIDDING SET 11-19-12



COUNTY OF SAN LUIS OBISPO
 DEPARTMENT OF GENERAL SERVICES
 1087 SANTA ROSA STREET
 SAN LUIS OBISPO, CA 94908
 PHONE: 805.776.6500



REGISTERED PROFESSIONAL ENGINEER
 JAMES B. ALBRECHT
 No. W28555
 Exp. 9-30-14
 MECHANICAL
 STATE OF CALIFORNIA

No.	Revision	Date
ADDENDUM#1	REV4	12.17.12
ADDENDUM#2	REV5	1.10.13

County Facility:
ATASCADERO LIBRARY RENOVATION
 6555 CARSTRANO AVE.
 ATASCADERO, CA 93422

Project Manager: M. DEMARTIN
 Checked By: MD
 Client Approval:
 Date: 08/20/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title: **ATASCADERO LIBRARY RENOVATION**
 6555 CARSTRANO AVE.
 ATASCADERO, CA 93422

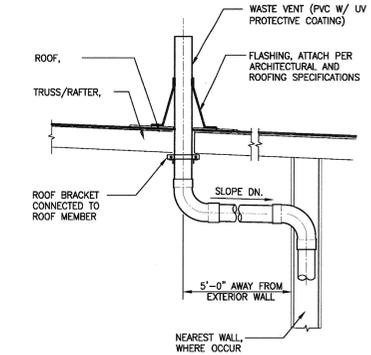
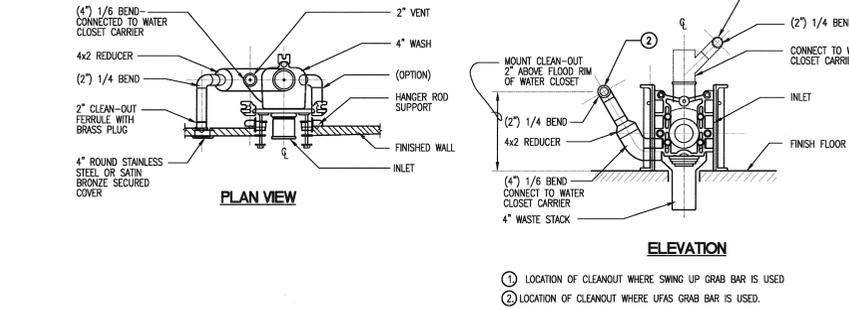
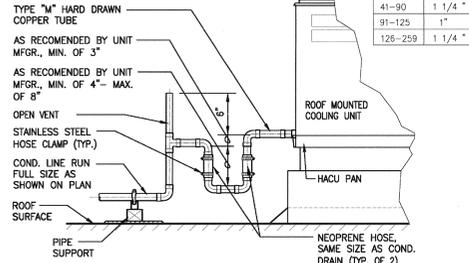
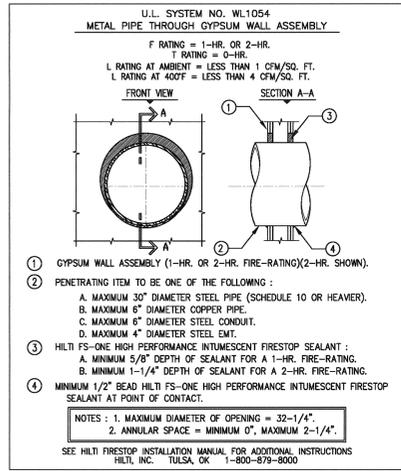
Sheet Title: **PLUMBING DIAGRAMS**

Sheet Number: **P3-0**
 of Sheets

PROJECT No. 417

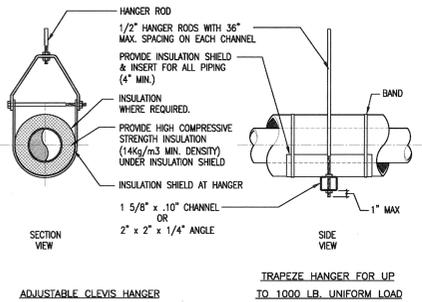
FILE No.

BIDDING SET 11-19-12



PIPE PENETRATION DETAIL

SCALE: NONE P4-0 51

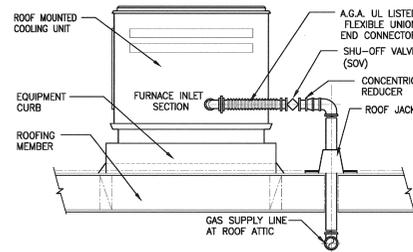


MAXIMUM PIPE/TUBING SUPPORT SPACING, FEET																	
NOM. SIZE	THRU 3/4"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
PIPE	7	7	9	10	11	12	14	16	17	19	22	23	25	27	28	30	32
TUBING	5	6	7	8	8	9	10	10	13	14	16	-	-	-	-	-	-

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

CONDENSATE TRAP/INDIRECT DRAIN DETAIL

SCALE: NONE P4-0 40

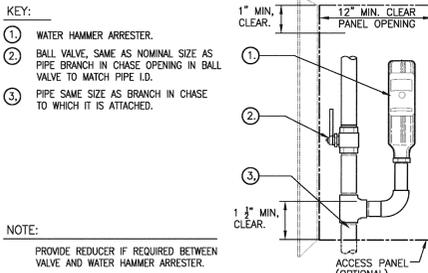


UNIT GAS CONNECTION DETAIL

SCALE: NONE P4-0 41

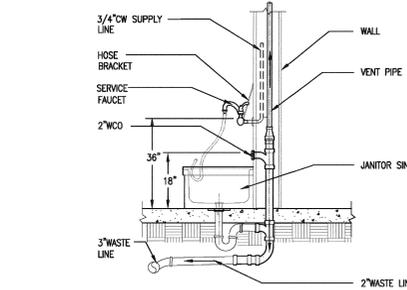
TYPICAL WATER CLOSET CARRIER W/ CLEANOUT DETAIL

SCALE: NONE P4-0 20



WATER HAMMER DETAIL

SCALE: NONE P4-0 31

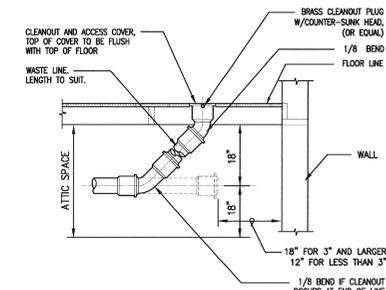


JANITOR SINK DETAIL

SCALE: NONE P4-0 21

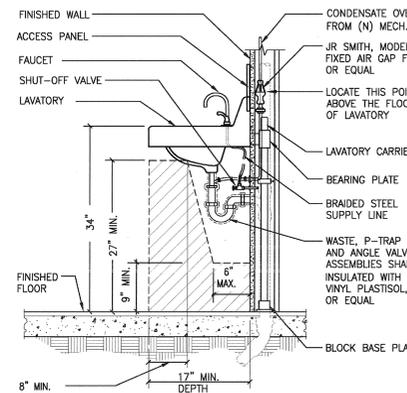
VENT THRU ROOF (VTR) DETAIL

SCALE: NONE P4-0 10



FLOOR CLEANOUT (FCO) DETAIL

SCALE: NONE P4-0 11

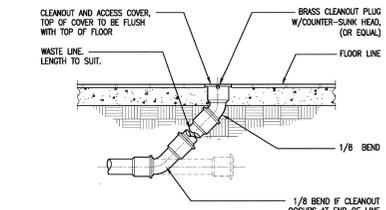


LAVATORY DETAIL (W/ INDIRECT DRAIN CONNECTION)

SCALE: NONE P4-0 22

WALL CLEANOUT (WCO) DETAIL

SCALE: NONE P4-0 12



PIPE SUPPORT DETAIL

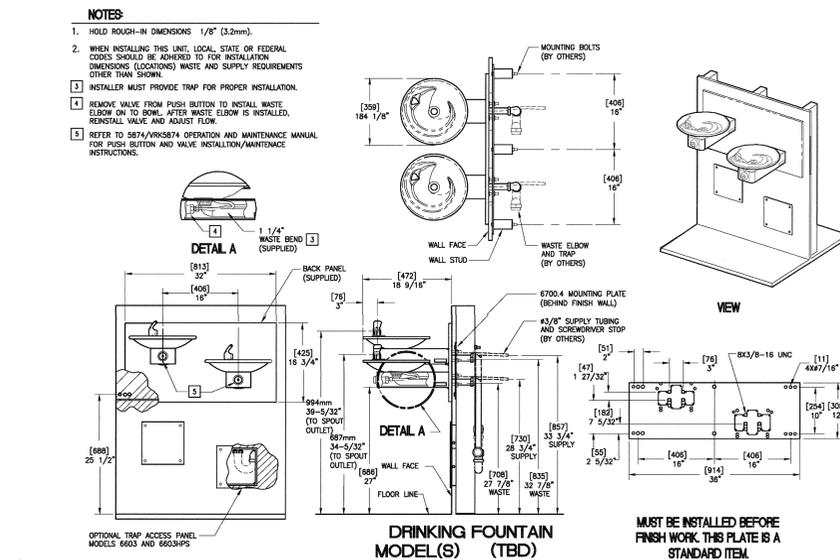
SCALE: NONE P4-0 52

TYPICAL LAVATORY / SINK CONNECTION DETAIL

SCALE: NONE P4-0 42

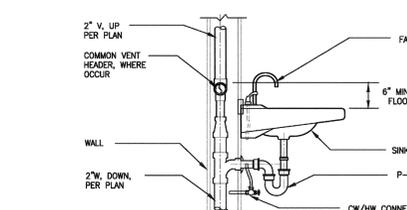
ELECTRIC HOT WATER HEATER DETAIL

SCALE: NONE P4-0 32



DRINKING FOUNTAIN DETAIL

SCALE: NONE P4-0 34

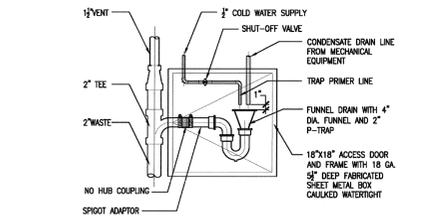


LAVATORY FIXTURE DETAIL

SCALE: NONE P4-0 23

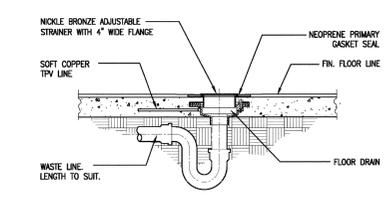
FLOOR CLEANOUT (FCO) DETAIL

SCALE: NONE P4-0 13



AIR GAP FITTING DETAIL

SCALE: NONE P4-0 54



FLOOR DRAIN (FD) DETAIL

SCALE: NONE P4-0 14



COUNTY OF SAN LUIS OBISPO
DEPARTMENT OF GENERAL SERVICES
1027 SANTA ROSA STREET
SAN LUIS OBISPO, CA 94908
PHONE 805/7652000



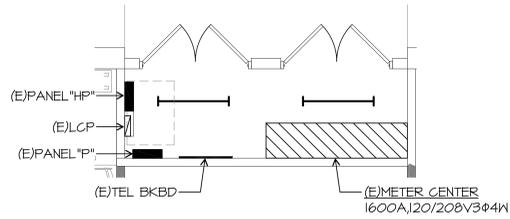
ATASCADERO LIBRARY RENOVATION
6555 CAPISTRANO AVE.
ATASCADERO CA 93422

No.	Revision	Date
1	PLANCHECK REV1	9.26.12
2	PLANCHECK REV2	10.24.12
3	PLANCHECK REV3	11.19.12

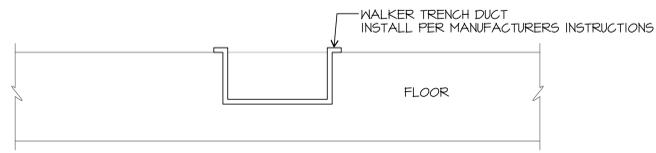
County Facility
Project Manager: M. DEMARTINI
Checked By: MD
Date: 08/30/2012

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Project Title: ATASCADERO LIBRARY RENOVATION
6555 CAPISTRANO AVE #3422
ATASCADERO, CA
Sheet Title: PLUMBING DETAILS
Sheet Number: P4-0
of Sheets
PROJECT No. 417
FILE No.



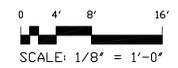
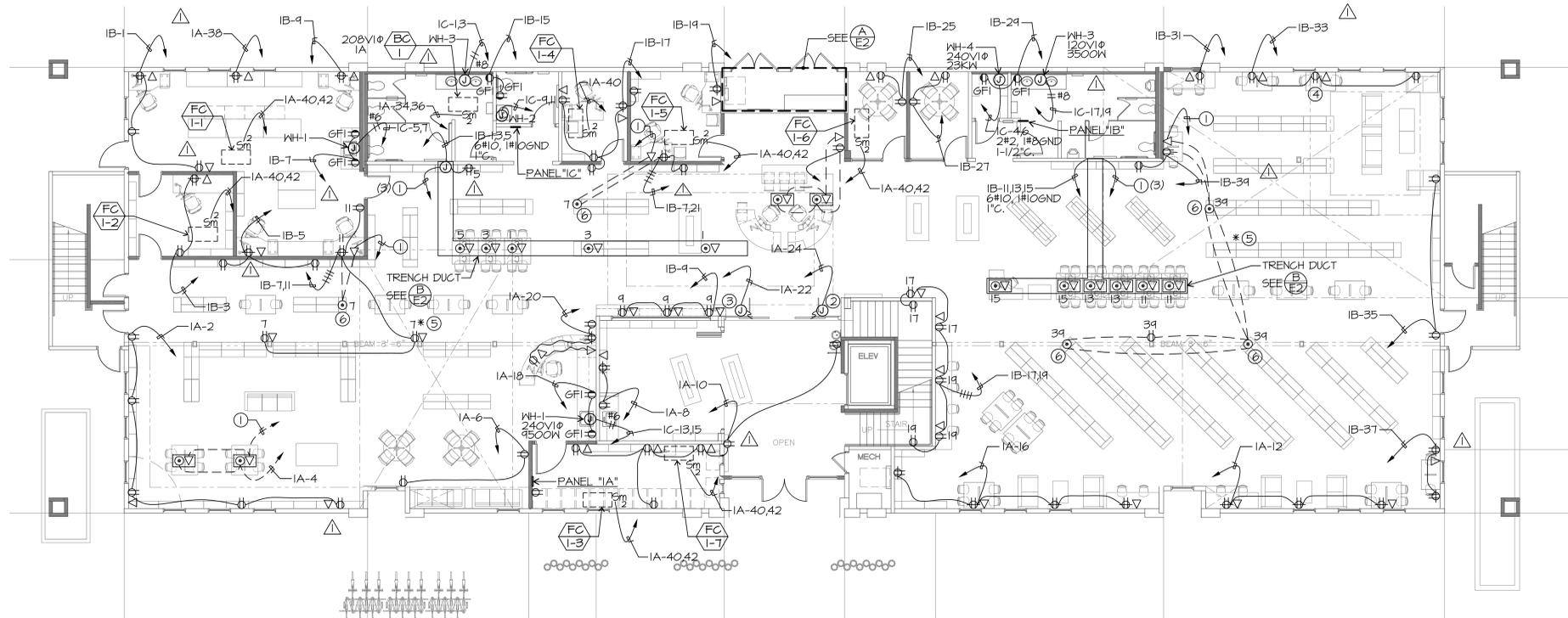
ENLARGED ELECTRICAL ROOM PLAN
SCALE: 1/4" = 1'-0" (A)



TRENCH DUCT DETAIL
SCALE: NONE (B)

ELECTRICAL NOTES

- ① 1" C.O. TO IDF
- ② CONNECT AUTO DOOR
- ③ CONNECT THEFT DETECTION
- ④ 3/4" C.O. TO IDF, TYPICAL
- ⑤ WIRELESS ACCESS POINT WITH 3/4" C.O. TO IDF
- ⑥ FLOOR OUTLET, WIREMOLD RFB2 W/ DUPLEX RECEPTACLE & PROVISIONS FOR RJ45. COORDINATE EXACT LOCATION & PLACEMENT



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

1 FIRST STORY POWER PLAN

.County logo.jpg

.Friends logo.jpg

COUNTY OF
SAN LUIS OBISPO
DEPARTMENT OF
GENERAL SERVICES
SAN LUIS OBISPO, CA 93408
PHONE: 805.781.5200



JIMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO. 833063
12/012
100 W. ALAMAR AVE.
SUITE 5
SANTA BARBARA, CA 93101
(805) 969-8816
FAX (805) 969-8805
email: jimpe@jimpe.net
www.jimpe.net



No.	Revision	Date
4	ADDEND #1 REV4	12.21.12

County Facility:
ATASCADERO LIBRARY RENOVATION
6555 CAPISTRANO AVE.
ATASCADERO CA 93422

Project Manager: M. DEMARTINI
Checked By: MD
Client Approval:
Date: 08/20/2012

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Project Title : ATASCADERO LIBRARY RENOVATION
6555 CAPISTRANO AVE.
ATASCADERO CA 93422

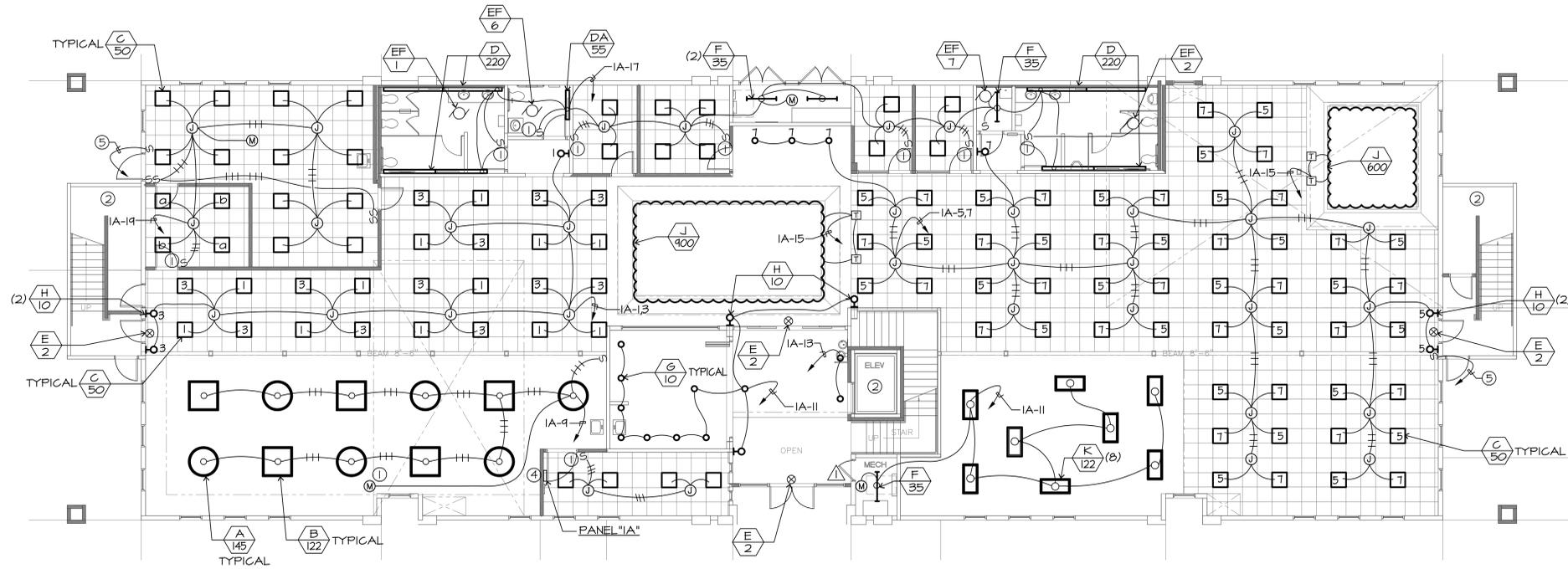
Sheet Title : FIRST STORY POWER PLAN

Sheet Number
E-2
of Sheets
PROJECT No. 417
FILE No.

BIDDING ADDENDUM #1 12-21-12

LIGHTING NOTES

- ① SENSOR SWITCH #WSD-PDT-2P-WH
- ② (E) LIGHTING TO REMAIN
- ③ SENSOR SWITCH #GMR4-PDT-WH
- ④ LIGHTING CONTROL PANEL "LCPI"
LC4D BLUE BOX #6R2416
- ⑤ LC4D CHELSEA SWITCH W/ LV CABLE TO "LCPI"



1 FIRST STORY LIGHTING PLAN



SCALE 1/8" = 1'-0"

.County logo.jpg

.Friends logo.jpg

COUNTY OF
SAN LUIS OBISPO
DEPARTMENT OF
GENERAL SERVICES
SAN LUIS OBISPO, CA 93408
PHONE 805.778.5200



J.M.P.E.
ELECTRICAL ENGINEERING
LIGHT & DESIGN
CA REGISTRATION NO. 8330683
12012
100 W. ALVARO AVE.
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SANTA BARBARA, CA 93105
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email: jimp@jimppe.net
www.jimppe.net



No.	Revision	Date
4	ADDEND #1 REV4	12.21.12

County Facility:
ATASCADERO LIBRARY RENOVATION
6555 CASTRANO AVE.
ATASCADERO CA 93422

Project Manager: M. DEMARTINI
Checked By: MD
Client Approval:
Date: 08/20/2012

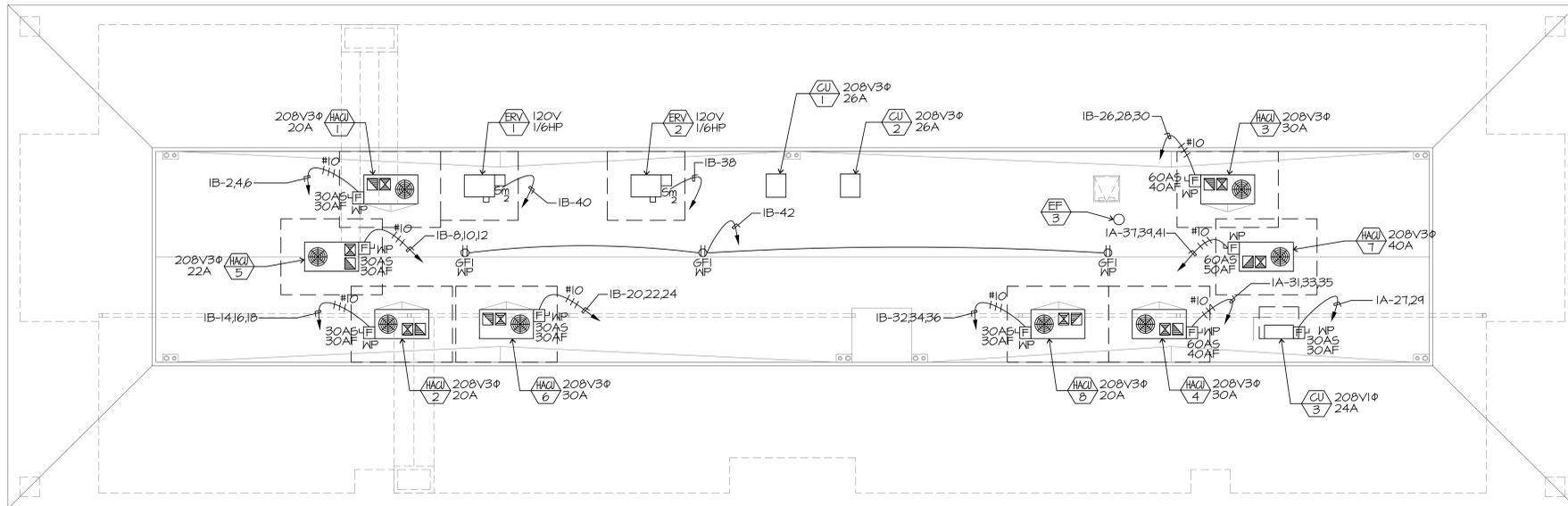
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Project Title : ATASCADERO LIBRARY RENOVATION
6555 CASTRANO AVE.
ATASCADERO CA 93422

Sheet Title : FIRST STORY LIGHTING PLAN

Sheet Number
E-3
of Sheets
PROJECT No. 417
FILE No.

BIDDING ADDENDUM #1 12-21-12

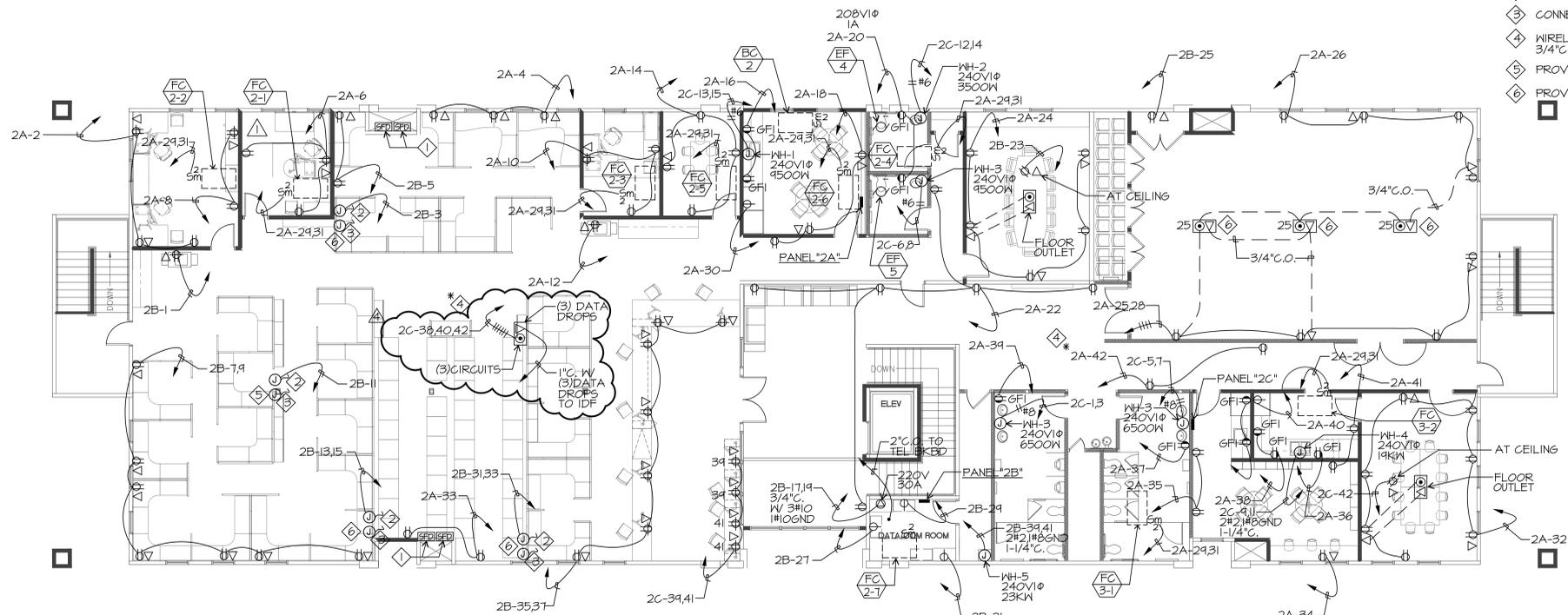


2 ELECTRICAL ROOF PLAN

SCALE 1/8" = 1'-0"

ELECTRICAL NOTES

- 1 CONNECT SMOKE FIRE DAMPER
- 2 CONNECT FURNITURE POWER WHIP
- 3 CONNECT FURNITURE DATA WHIP
- 4 WIRELESS ACCESS POINT WITH 3/4"C.O. TO IDF
- 5 PROVIDE 4 DATA DROPS FROM IDF
- 6 PROVIDE 5 DATA DROPS FROM IDF



1 SECOND STORY POWER PLAN

SCALE 1/8" = 1'-0"



COUNTY OF
SAN LUIS OBISPO
DEPARTMENT OF
GENERAL SERVICES
1087 SANTA ROSA STREET
SAN LUIS OBISPO, CA 93408
PHONE 805.769.6000



J.M.P.E.
ELECTRICAL ENGINEERING
LIGHT & DESIGN
CA REGISTRATION NO. E13083
12/01/2

300 W. ALABAMA AVE.
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SANTA BARBARA, CA 93101
(805) 569-8216
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E-MAIL: j.m.p.e.@j.m.p.e.-net
WWW.J.M.P.E.-NET



No.	Revision	Date
1	ADDEND #1 REV4	12.21.12

County Facility:
ATASCADERO LIBRARY RENOVATION
6555 CASTRANO AVE.
ATASCADERO CA 93422

Project Manager: M. DEMARTIN
Checked By: MD
Client Approve:
Date: 08/20/2012

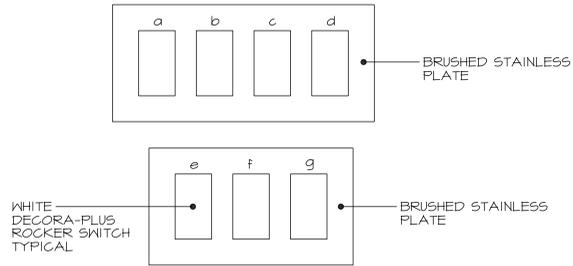
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Project Title: ATASCADERO LIBRARY RENOVATION
6555 CASTRANO AVE. ATASCADERO CA 93422

Sheet Title: SECOND STORY POWER PLAN

Sheet Number
E-4
of Sheets
PROJECT No. 417
FILE No.

BIDDING ADDENDUM #1 12-21-12



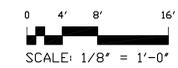
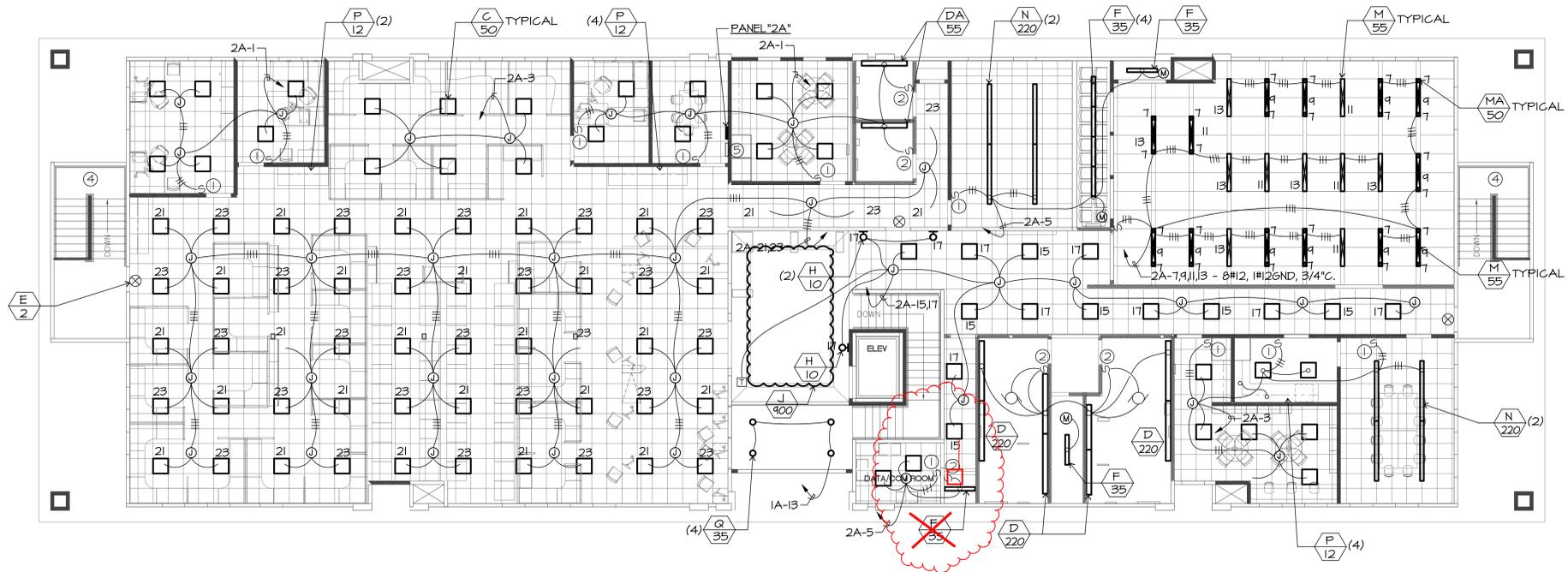
SWITCHBANK DETAIL

SCALE: NONE



LIGHTING NOTES

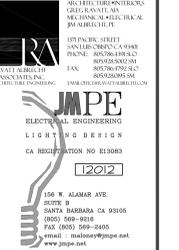
- ① SENSOR SWITCH #WSD-PDT-2P-WH
- ② SENSOR SWITCH #WSD-PDT-WH
- ③ SEE SHEET E-3 FOR SPECIFICATION AND CIRCUITING
- ④ EXISTING LIGHTING TO REMAIN
- ⑤ LIGHTING CONTROL PANEL "LCP2" LC#D #GR2416



1 SECOND STORY LIGHTING PLAN

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

COUNTY OF
SAN LUIS OBISPO
DEPARTMENT OF
GENERAL SERVICES
SAN LUIS OBISPO, CA 93408
PHONE: 805.781.2200



No.	Revision	Date
1	PLANCHECK REV1	9.26.12
2	PLANCHECK REV2	10.24.12
3	RED LINES	11.27.12

County Facility:
ATASCADERO LIBRARY RENOVATION
6555 CASTRANO AVE.
ATASCADERO CA 93422

Project Manager: M. DEMARTINI
Checked By: MD
Client Approval:
Date: 08/20/2012

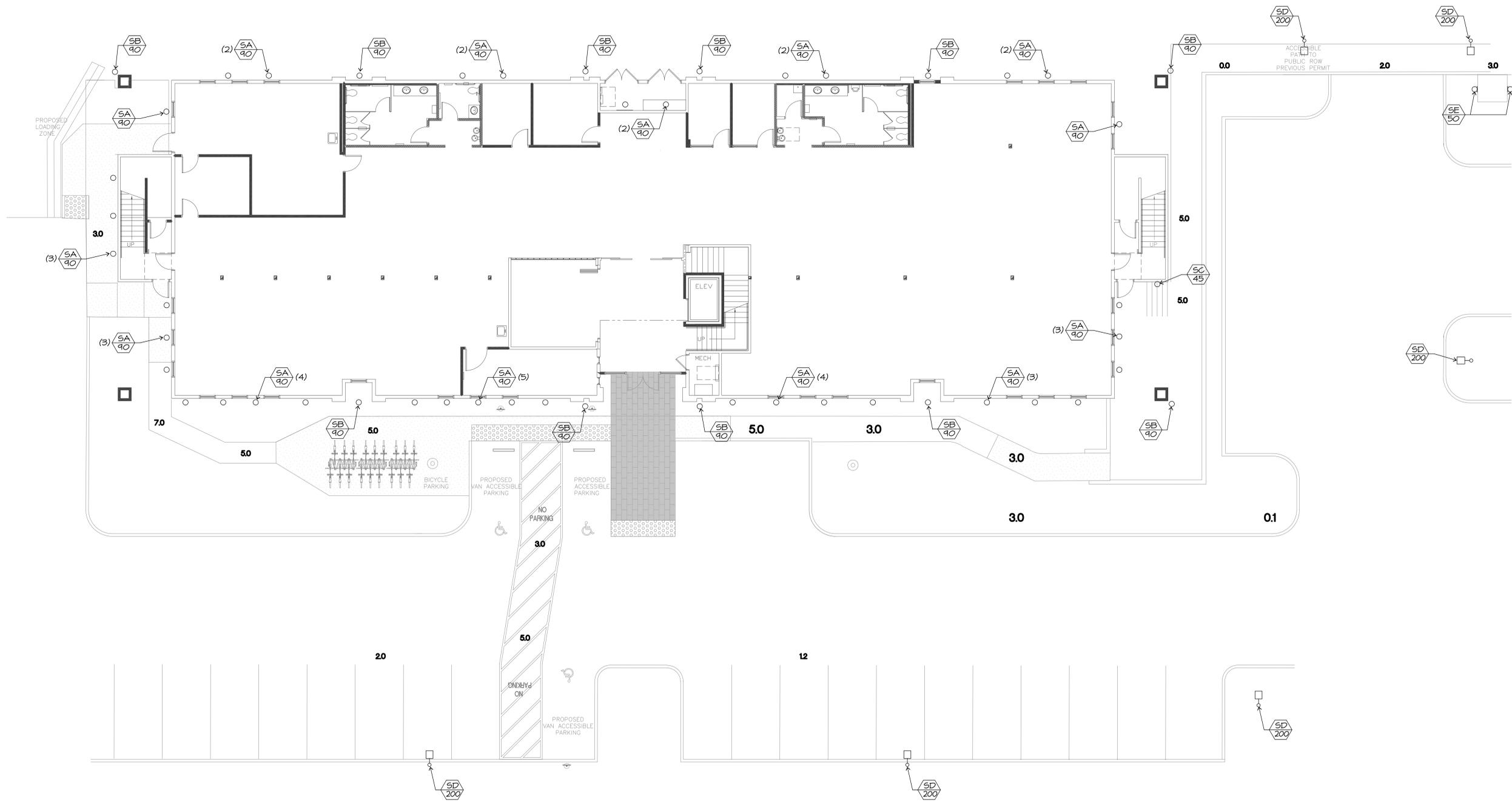
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Project Title: ATASCADERO LIBRARY RENOVATION
6555 CASTRANO AVE
ATASCADERO CA 93422

Sheet Title: SECOND STORY LIGHTING PLAN

Sheet Number
E-5
of Sheets
PROJECT No. 417
FILE No.

PLAN CHECK REVISION 2 10.24.12



1 EXISTING SITE LIGHTING PHOTOMETRIC PLAN

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

COUNTY OF
SAN LUIS OBISPO
DEPARTMENT OF
GENERAL SERVICES
SAN LUIS OBISPO, CA 93408
PHONE: 805.781.9200

REGISTERED ELECTRICAL ENGINEER
JIMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO. E13083
12012
120 W. ALAMAR AVE.
SUITE 200
SANTA BARBARA, CA 93105
(805) 969-8216
FAX: (805) 969-8205
email: jimpe@jimpe.net
www.jimpe.net



Revision	Date
1	COUNTY REVIEW 6/19/12

County Facility:
ATASCADERO LIBRARY RENOVATION
5855 CAPISTRANO AVE.
ATASCADERO CA 93422

Project Manager: M. DEMARTINI
Checked By:
Client Approval:
Date: 08/20/2012

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCING WORK. REPORT ANY DISCREPANCIES TO COUNTY PROJECT COORDINATOR OR TO THE PROJECT ARCHITECT.

Project Title :
ATASCADERO LIBRARY RENOVATION
Sheet Title :
EXISTING SITE LIGHTING PHOTOMETRIC PLAN

Sheet Number
EL-2
of Sheets
PROJECT No. 448
FILE No.

90% CONSTRUCTION DOCS 8.20.12