# THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS ACTION AGENDA SUMMARY

DEPT: Chief Executive Office	BOARD AGENDA #
Urgent Routine	AGENDA DATE December 14, 2010
Urgent Routine CEO Concurs with Recommendation YES NO (Information Attached)	4/5 Vote Required YES 🔲 NO 🔳

SUBJECT:

Approval of Plans and Specifications for Minor Renovations at the Health Services Agency Public Health Laboratory

STAFF RECOMMENDATIONS:

- 1. Approve the plans and specification for minor renovations at the Health Services Agency Public Health Laboratory prepared by Pacific Design Associates, Inc. of Modesto, California.
- 2. Authorize the Project Manager to issue a notice inviting bids on December 15, 2010 for the construction phase of the project, and for the Project Manager to modify the bid date if necessary.
- 3. Authorize the Project Manager to accept and open bids on January 19, 2011, at 2:00 p.m.; and return to the Board to recommend a contract award to the lowest responsible bidder.

# FISCAL IMPACT:

The total estimated cost of the Polymerase Chain Reaction (PCR) Project previously approved by the Board was \$376,585, which included equipment costs of \$281,585, and construction costs estimated not to exceed \$95,000. Homeland Security Grant funding of \$281,585 previously approved by the Board on November 3, 2009 will fund equipment costs, while Public Facility Fees (PFF) of \$66,431 and Health Services Agency Public Health laboratory fund balance of \$28,569 will fund construction costs associated with the minor renovations required at the Health Services Agency Public Health Laboratory for the PCR Project. (Continued on Page 2)

BOARD ACTION AS FOLLOWS:

No. 2010-748

On motion of Superviso		, Seconded by SupervisorMonteith
and approved by the fol		
Ayes: Supervisors:	O'Brien, Chiesa,	Monteith, DeMartini, and Chairman Grover
Noes: Supervisors:	None	
<b>Excused or Absent: Sup</b>		
Abstaining: Supervisor:	None	
1) X Approved as	recommended	
2) Denied		
3) Approved as	amended	
4) Other:		
MOTION:		

Approval of Plans and Specifications for Minor Renovations at the Health Services Agency Public Health Laboratory Page 2

# FISCAL IMPACT (Continued):

On September 21, 2010, the Board of Supervisors approved a contract for professional architectural design services for the development of plans and specifications for the minor renovations at the Health Services Agency Public Health Laboratory to Pacific Design Associates, Inc. of Modesto, California, for the lump sum amount not to exceed \$9,950.

At this time, the Chief Executive Office is returning to the Board for approval of the plans and specifications for the minor renovations at the Health Services Agency Public Health Laboratory.

Staff is also requesting approval to issue a notice inviting bids on December 15, 2010 for the construction phase of the project, and to modify the bid date if necessary. Staff is also requesting approval to open and evaluate bids on January 19, 2011, immediately after 2:00 p.m., and return to the Board to recommend an award to the lowest responsible bidder.

The Chief Executive Office will return to the Board to recommend a construction contract award to the lowest responsible bidder prior to beginning the construction phase of the project.

There is no additional impact to the General Fund associated with this item.

# DISCUSSION:

The construction of the Stanislaus County Health Services Agency Public Health Laboratory was completed in 1962. The public's health depends upon the rapid, reliable transmission of test results and other vital health data. Elected officials, policy makers, public health, clinicians and emergency responders rely on this data to diagnose, treat and control health threats. Public health laboratories play an essential role in public health and safety. They function to generate critical data used to make informed decisions regarding the implementation of preventative measures and development of effective policies that protect the public from unforeseen conditions, hazards, and threats.

The Health Services Agency's Public Health Department identified the need for a polymerase chain reaction (PCR) system as a critical piece of laboratory infrastructure that will be key in the surveillance and monitoring activities of the County Health Department. Laboratory applications for this equipment include confirmation of bioterrorism, the H1N1 virus and norovirus.

On December 22, 2009, the Board approved minor renovations needed at the Public Health Laboratory to create an environment where staff can operate most efficiently and effectively and space where the new PCR equipment could be accommodated.

Approval of Plans and Specifications for Minor Renovations at the Health Services Agency Public Health Laboratory Page 3

Recommended modifications to the existing space to support the PCR system were approved by the Board as follows:

- Removal of the existing door from the hall into the new lab space. The existing door into the lab will remain;
- Remove the carpet and replace with sheet vinyl with coved base;
- Remove the existing acoustical ceiling and replace with new gypsum board ceiling;
- Re-paint the room;
- Install new electrical receptacles to accommodate the new equipment;
- Modify the existing heating and air conditioning system to tie into the existing lab system;
- Provide new cabinetry and counter tops; and
- Install a new sink with eye-wash capability.

At that time, the Board also authorized the Project Manager to issue an RFP for licensed contractors for minor renovations.

In the Spring of 2010, Capital Projects staff reviewed the project and the complex requirements of the equipment and recommended a change to the project delivery method. Capital Projects staff believed by enlisting professional architectural design services, to control the cost and the quality of the project, and to ensure the bids the County receives from Licensed Contractors are comparable.

On June 29, 2010, the Board approved a recommended change to the project delivery method which included issuing a RFP for architectural design services for the development of plans and specifications for the minor renovations at the Health Services Agency Public Health Laboratory, and authorized the Project Manager to open and evaluate proposals on July 21, 2010 immediately after 4:00 p.m., and return to the Board to recommend an award.

At this time, the Chief Executive Office is returning to the Board for approval of the plans and specifications for the minor renovations at the Health Services Agency Public Health Laboratory.

The Chief Executive Office will return to the Board to recommend a construction contract award to the lowest responsible bidder prior to beginning the construction phase of the project.

It is anticipated that when the project is completed, the new PCR equipment will enable the Health Services Agency Public Health Laboratory's capability in identifying viral diseases inclusive of bioterrorism, influenza, and norovirus. This is extremely important as longer wait times reduce Public Health's ability to respond to and mitigate H1N1 infections. As longer turnaround times occur due to an ever increasing number of Approval of Plans and Specifications for Minor Renovations at the Health Services Agency Public Health Laboratory Page 4

sick people emerging, the ever-widening sphere of infection could ultimately result in an "outbreak".

Attachment 1 is the Floor Plan Diagram which slows the area recommended for minor renovation as included in the recommended design. A set of Plans and Specifications are available from the Clerk of the Board of Supervisors detailing the entire minor renovation project.

# POLICY ISSUES:

Approval of this matter supports the Board priorities of A Safe Community, A Healthy Community, and Efficient Delivery of Public Services.

# **STAFFING IMPACT:**

Chief Executive Office Capital Projects, Health Services Agency Public Health, and Office of Emergency Services staff will collaborate to ensure the project is implemented.

# CONTACT PERSON:

Patricia Hill Thomas, Chief Operations Officer. Telephone: 209-525-6333

ATTACHMENTS AVAILABLE FROM YOUR CLERK

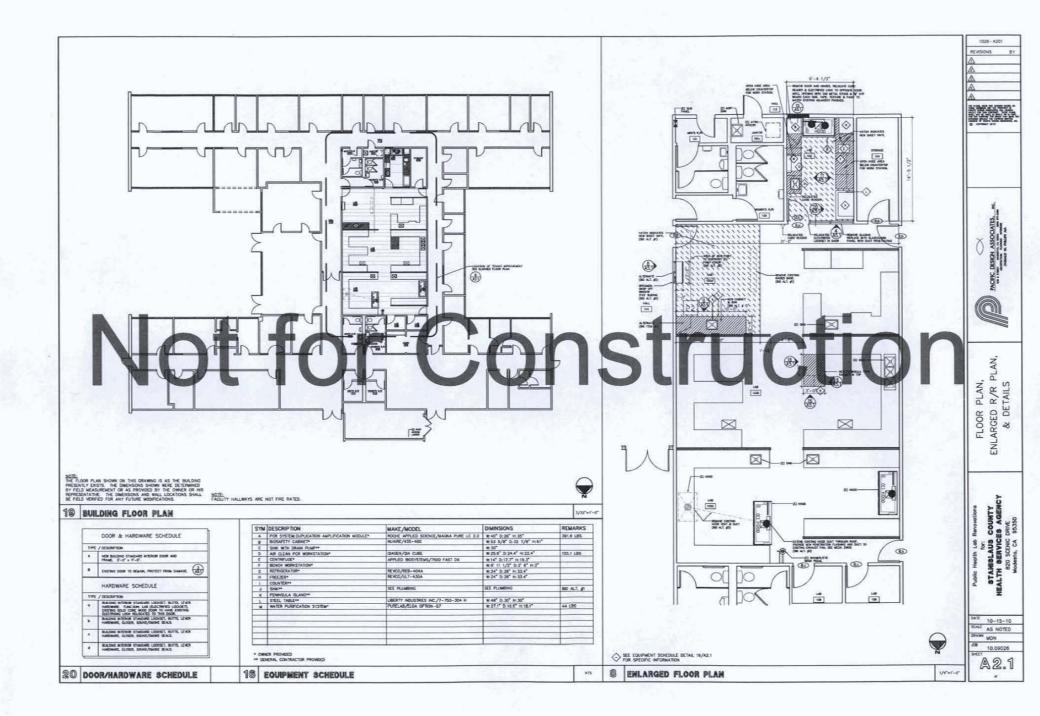


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20 SYNBOLS	16 PROJECT DATA		12 GENERAL NOTES	8 PROJECT SCOPE	4

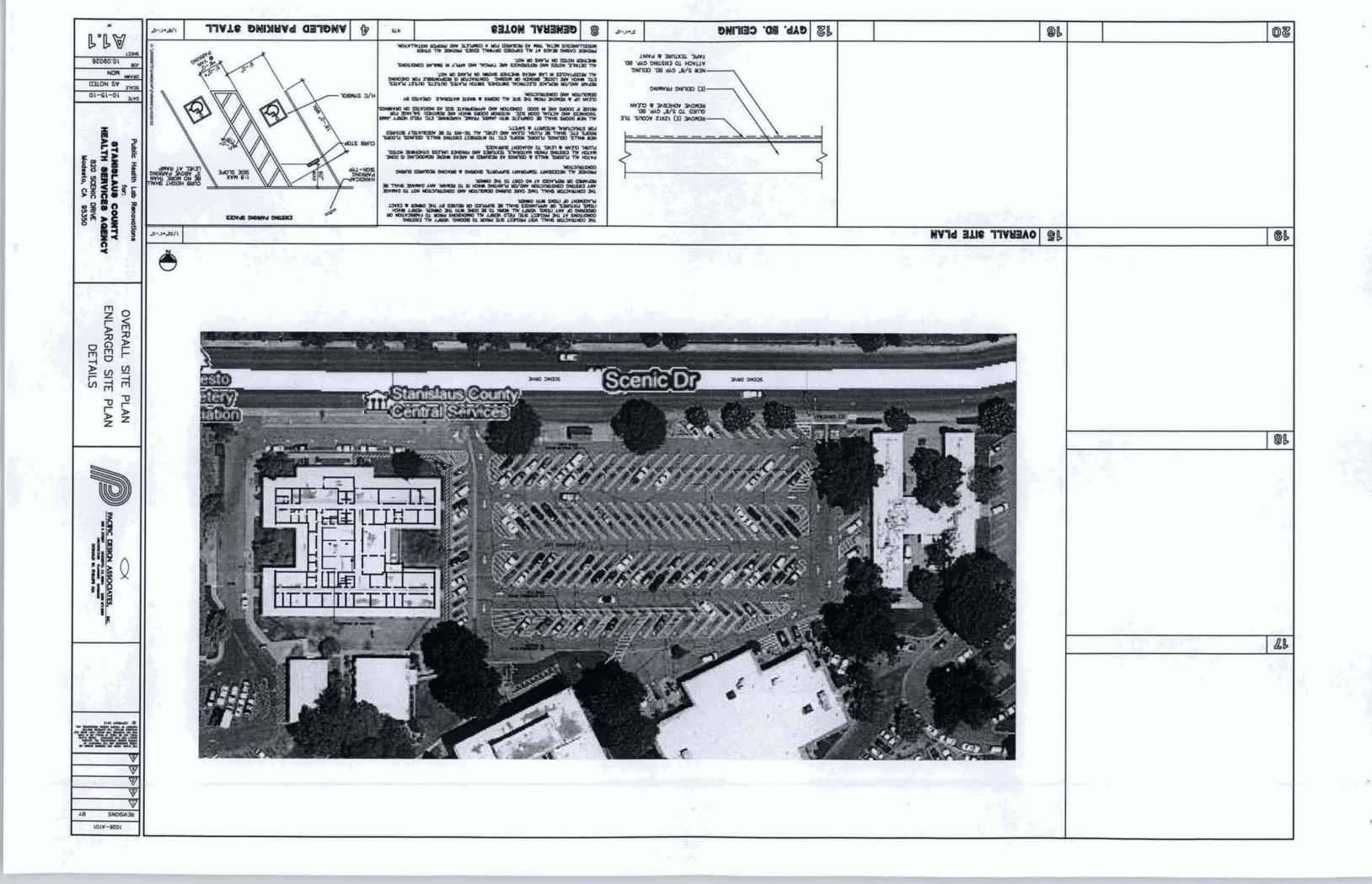
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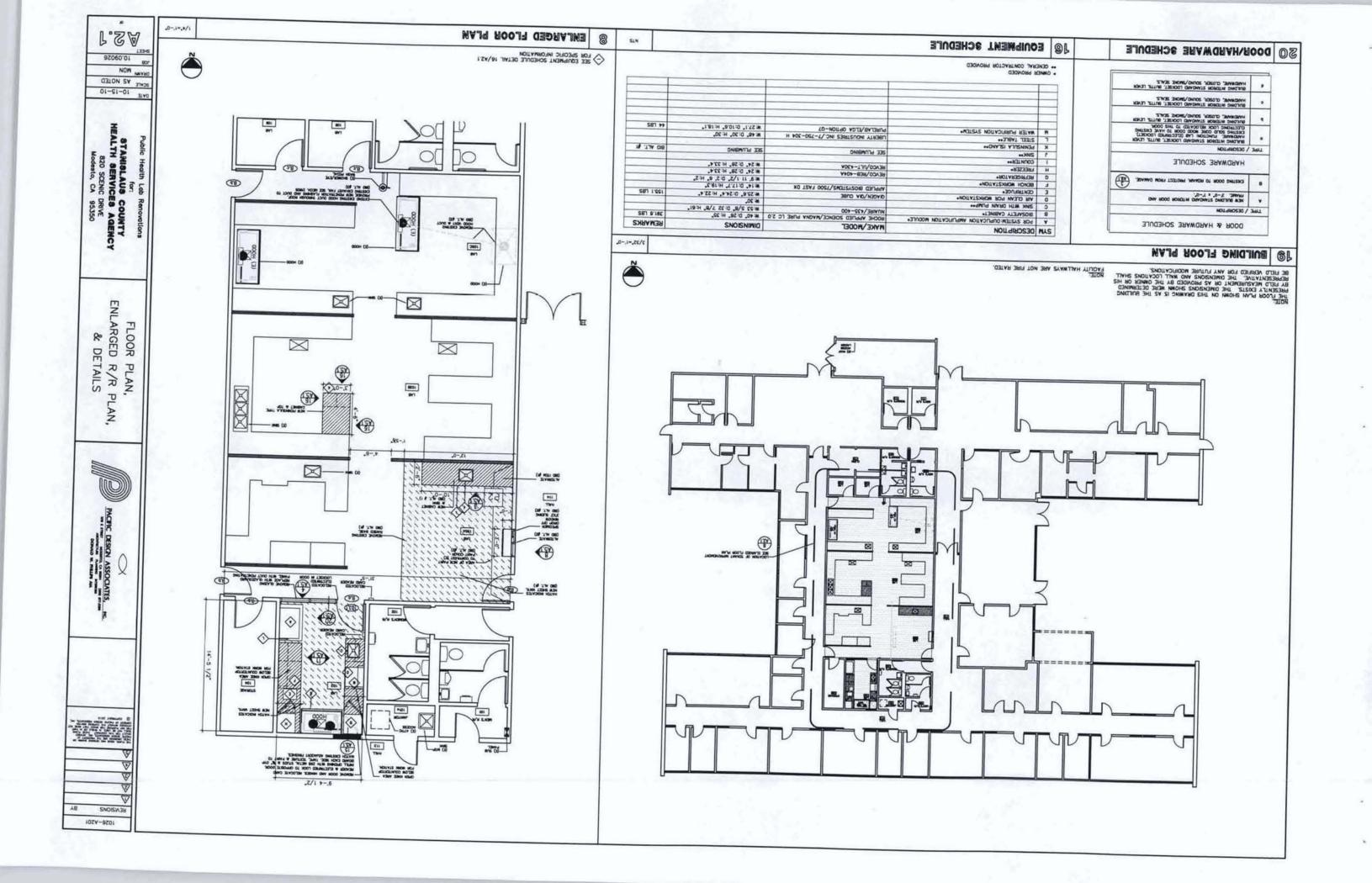
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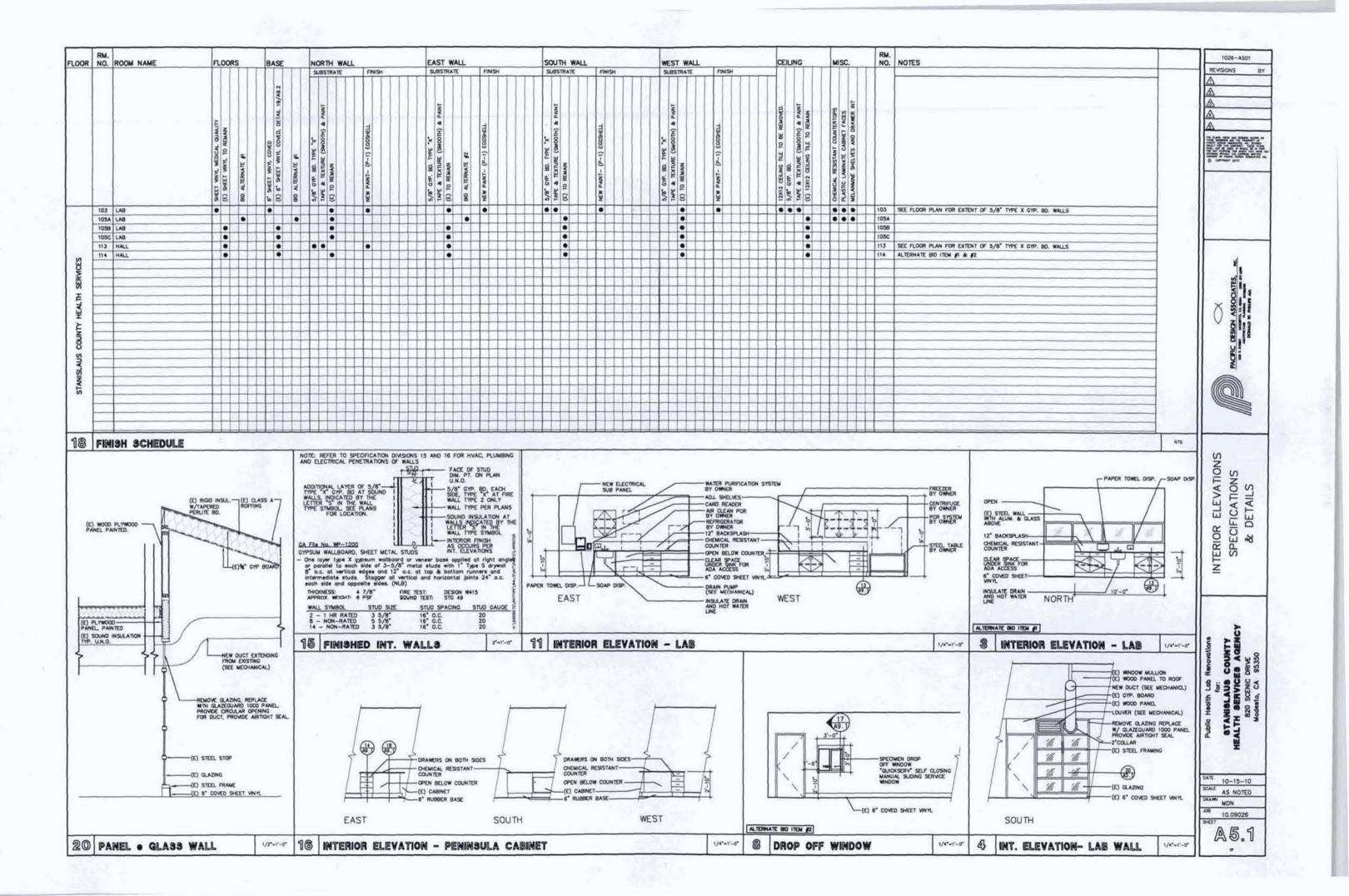
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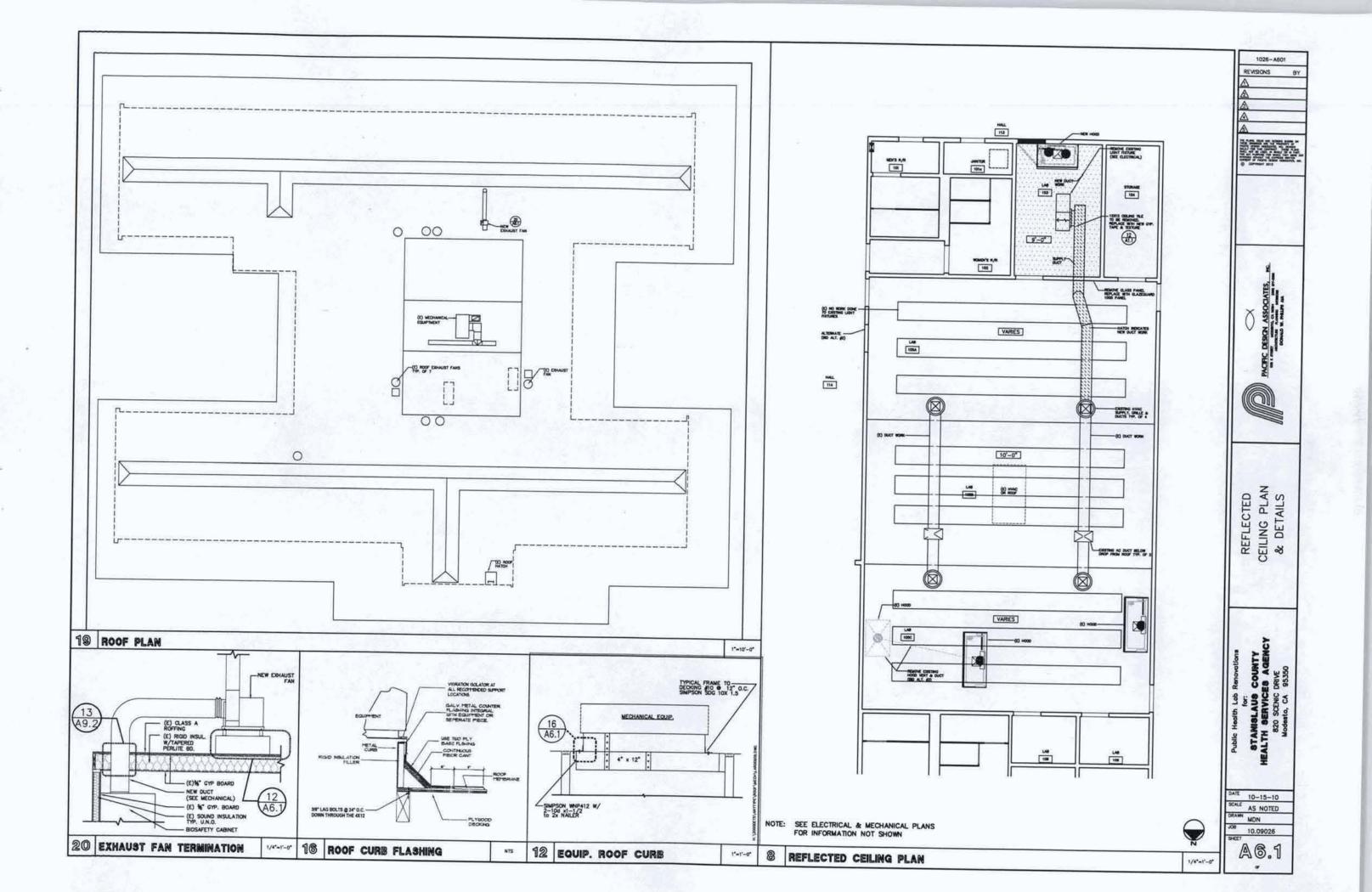
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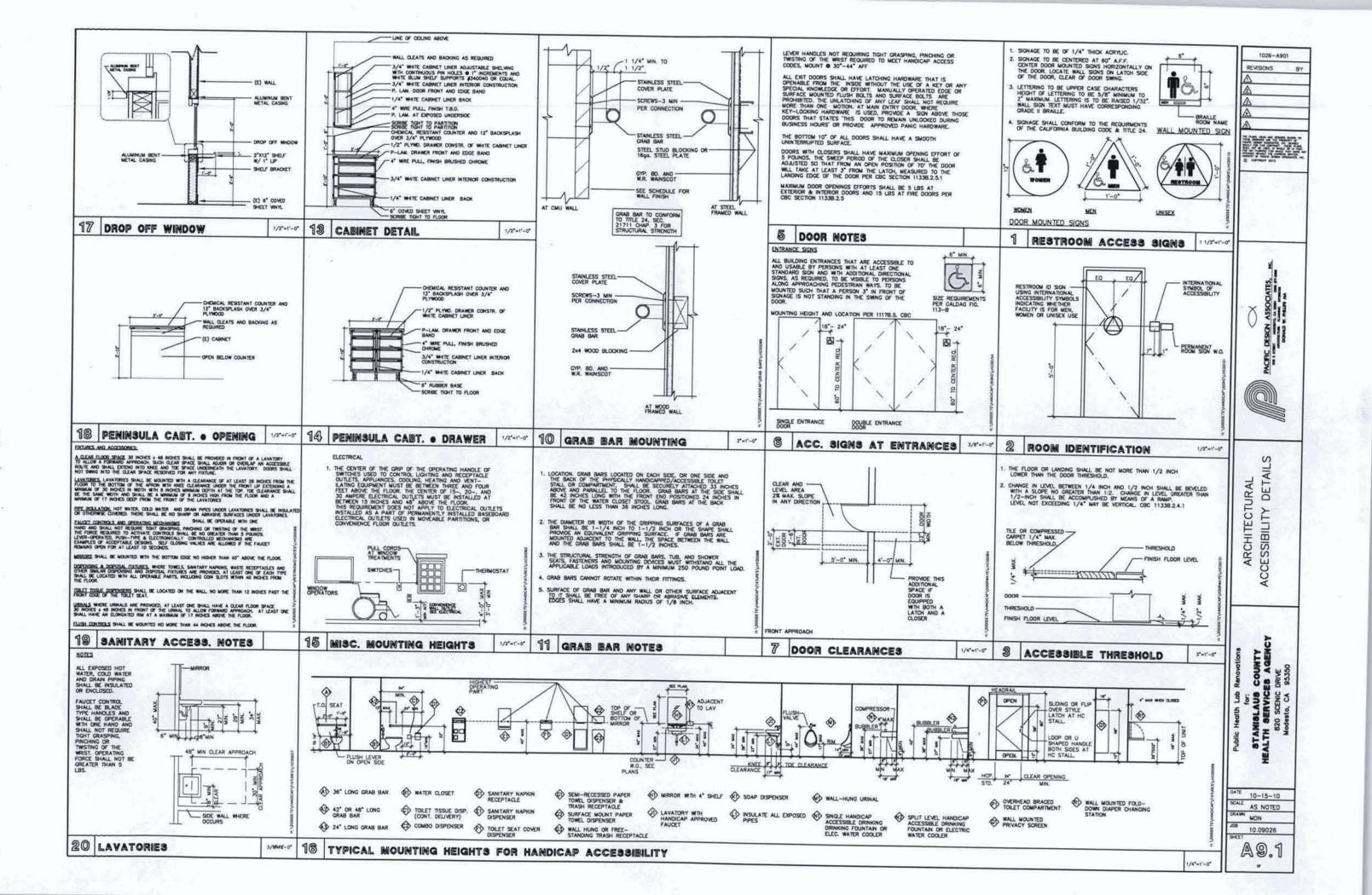


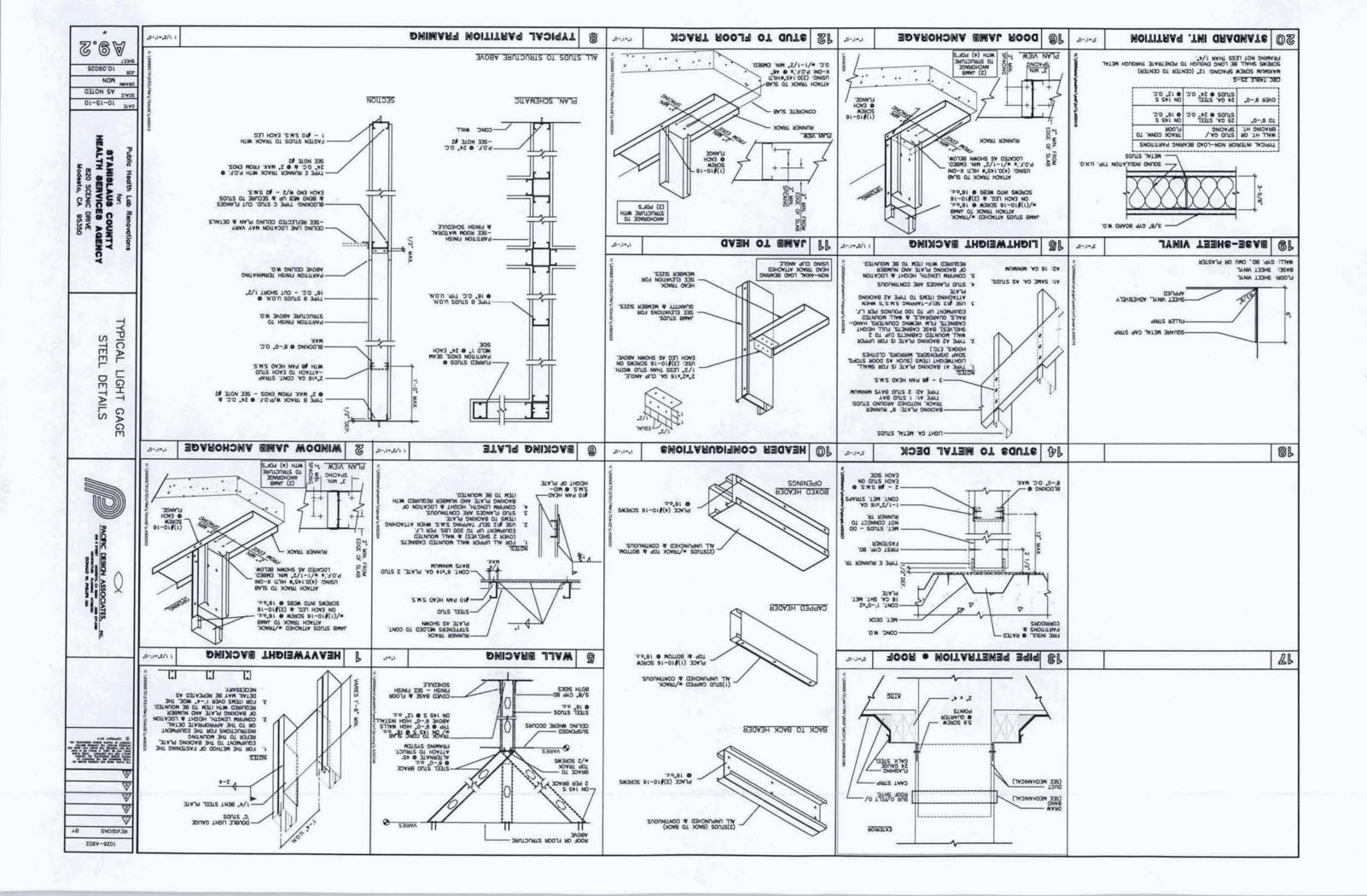


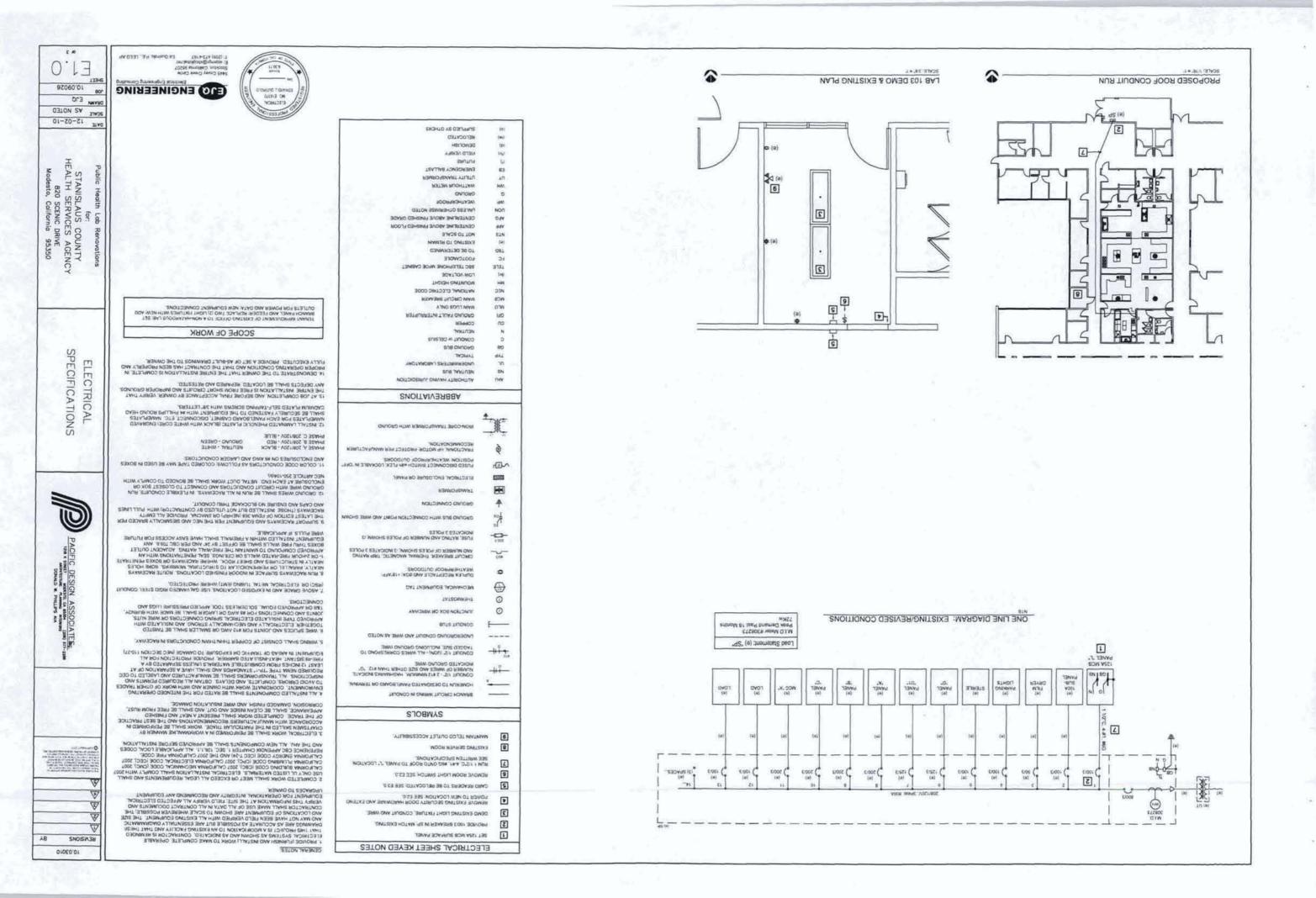


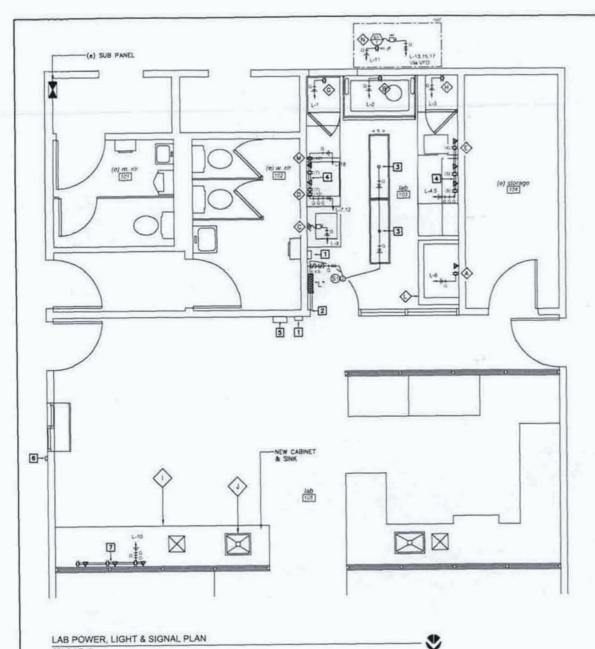












## LAB POWER, LIGHT & SIGNAL PLAN SCALE: 38 + 1

EQUI	PMENT SCHEDULE			
SYM	DESCRIPTION	MAKE/MODEL	LOAD	REMARKS
A	PCR SYSTEM: DUPL AMP MODULE*	ROCHE APPLIED SCIENCE/MAGNA PURE LC 2.0	10A, 110VAC	NEMA 5-15, MH=45"; DATA
B	BIOSAFETY CABINET*	NUAIRE/435-400	BA, 110VAC	NEMA 5-15, MH=45"
C	SINK WITH DRAIN PUMP	STARITE DP2, 1/3HP, 110V	7A, 110VAC	1 HP DISCONNECT
D	AIR CLEAN PCR WORKSTATION.	QIAGEN/QIA CUBE	6A, 110VAC	NEMA 5-15, MH=45"
E	CENTRIFUGE*	APPLIED BIOSYSTEMS/7500 FAST DX	BA, 110VAC	NEMA 5-15, MH=45"; DATA
F	BENCH WORKSTATION*			
G	REFRIGERATOR.	REVCO/REB-404A	BA, 110VAC	NEMA 5-15, MH=45"; 15A CB
H	FREEZER*	REVCO/ULT-430A	8A, 110VAC	NEMA 5-15, MH=45"; 15A C8
1	COUNTER**			
J	SINK**			BID ALT. #1
K	PENNINSULA ISLAND**			
1	STEEL TABLE**	LIBERTY INDUSTRIES INC. /7-750-304 H		
M	WATER PURIFICATION SYSTEM*	PURELAB/ELGA OPTION-Q7	4.0A, 110VAC	NEMA 5-15, MH=45"
N	EF-1 (ROOF EXHAUST FAN)**	GREENECK 115 SWB; 2HP, 208V, 3PH	7.5A, 208VAC	3 HP DISCONNECT
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NOTES: 1. COORDINATE OUTLET MOUNTING LOCATIONS WITH EQUIPMENT INSTRUCTIONS AND FIELD CONDITIONS; GET LOCATION APPROVAL FROM ARCHITECT BEFORE ROUGH-IN. 2. EF-1 SHALL BE CONTROLLED BY VFD; SEE MECHANICAL DRAWINGS FOR INTER-CONNECTIONS. 3. SUPPLY GST-1 CIRCUIT; COORDINATE WITH MECHANICAL. 4. • - OWNER PROVIDED; •• - GENERAL CONTRACTOR PROVIDED.

COMMUNICATIONS NOTES:

1. DATA AND TELCO SHALL INCLUDE RAS AND RJ11 CONNECTIONS AND CATSE CABLES ( CABLE S 0.275 INCHES IN DIAMETER). PROVIDE CONDUIT IN INACCESSIBLE SPACE AND HANGERS ABOVE CEILING IN ACCESSIBLE SPACE. PROPERLY SEAL ALL FIRE-WALL PENETRATIONS.

2. RUN DATA AND TELCO CABLES TO DATA/TELCO ROOM (SEE E1.0). LEAVE 20FT OF COILED CABLE ON FLOOR FOR IT PERSONNEL TO MAKE TERMINATIONS IN DATA/TELCO ROOM

1. IN LAB: PROVIDE CONDUIT. BOX. 110 TERMINATIONS AND COVER PLATE: LABEL BOTH ENDS OF CABLE 'DM' FOR DATA, 'TM' FOR TELCO. ALL CONDUIT RUNS IN LAB SHALL BE SURFACE MOUNTED, VERIFY EXACT OUTLET LOCATIONS WITH ARCHITECT BEFORE WORK BEGINS.

4. FOLLOW MANUFACTURER'S GUIDELINES DURING INSTALLATION OF CATSE SYSTEM. INCLUDING THE USE OF PROPER CONNECTORS AND FITTINGS. THE MAXIMUM LENGTH OF ANY CABLE RUN SHALL BE 300 FEET.

5. DO NOT EXCEED A PULLING TENSION OF 20% OF THE ULTIMATE BREAKING STRENGTH RATING OF CABLE

6. DO NOT BEND, INSTALL, OR RACK ANY CABLE IN AN ARC LESS THAN 12 TIMES (12X) THE CABLE DIAMETER. TERMINATE CABLES WITH APPROPRIATE CONNECTORS.

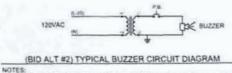
7. ALL INSTALLATION AND ROUTING SHALL CONFORM TO EIA/TIA 568. THE TWISTED PAIR WIRES SHALL BE TWISTED ALL THE WAY TO THE CONNECTORS TO HELP ELMINATE CROSSTALK BETWEEN LINES.

5. A CABLE TESTING DEVICE SHALL BE USED ON ALL CABLES TO CHECK FOR ANY DEFECTS IN CABLES OR INSTALLATION PROCEDURES. CABLE IMPEDANCE, OPENS, SHORTS, CROSSTALK AND NOISE INTERFERENCE SHALL BE INCLUDED IN THE TESTING PROCEDURES.

## TERMINAL:

- ILUS DATA SINGLE-GANG WALL OUTLET. BOX AND FLUSH COVER PLATE: 110 STYLE V PUNCHDOWN TERMINAL: LABEL COVERPLATE AND CABLE (BOTH ENDS) WITH PORT #; MH#45'AFF.
- RJ11 TELCO SINGLE-GANG WALL OUTLET. BOX AND FLUSH COVER PLATE: 110 STYLE PUNCHDOWN TERMINAL: LABEL COVERPLATE AND CABLE (BOTH ENDS) WITH T#  $\nabla$ Minas AFF

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1. LOCATE PUSHBUTTON (P.S.) AND BUZZER PER ARCHITECTS INSTRUCTIONS.

## LIGHTING NOTES:

1. PROVIDE LIGHT FIXTURES WIRED AS SHOWN AND PER RESPECTIVE SHEET KEYED NOTES WITH ARCHITECTS APPROVAL, COMPLETE WITH ALL REQUIRED DAMPS AND ACCESSORIES. INSTALL FXTURES IN LOCATIONS PER ARCHITECTURAL DRAWING LOCATIONS AND PER ARCHITECTURAL DETAILS, IF REQUIRED. LOAD TEST ALL LIGHTS TO ASSURE CONFORMANCE TO ITS CIRCUIT RATING. UTLIZE 3-6 SWITCHING PATTERN AS SHOWN AND CONTROLS PER CA TITLE-34 REQUIREMENTS.

2. FLUORESCENT BALLASTS SHALL BE PARALLEL INSTANT START ELECTRONIC TYPE UNLESS. 2. FLUORESCENT BALLASTS SHALL BE PARALLEL INSTANT START ELECTRONIC TYPE UNLESS OTHERWISS NOTED, CLASS-P THERMALLY PROTECTED, SHALL HAVE CLASS A SOUND RATING, AND SHALL COMPLY WITH 1992 FEDERAL ENERGY POLICY ACT, FLUORESCENT BALLASTS SHALL BE HIGH-FREQUENCY ELECTRONIC, MINIMUM 90% BALLAST FACTOR, MAXIMUM 20% TOTAL HARMONIC DISTORTION (THO). INSTRUCT OWNER ON CLEANING OF LIGHT LENSES AND REFLECTORS ON REGULAR SCHEDULE TO MAINTAIN LIGHT QUALITY OUTPUT.

3. CEILING OR WALL SUSPENDED FIXTURES OR LIGHTING SYSTEMS SHALL BE INSTALLED BY CONTRACTOR ACCORDING TO WRITTEN MANUFACTURER'S INSTRUCTIONS AND BY FOLLOWING THE NEC CODE.

4. PLACE CEILING OCCUPANCY SENSOR FOR BEST PERFORMANCE. PROGRAM OCCUPANCY SENSORS TO BEST SUIT THE ROOM APPLICATION AND OCCUPANTS NEEDS.

POWER NOTES: 1. EQUIP AND WIRE PANELS AS SHOWN, EXCEPT FOR UNAVOIDABLE CHANGES. PROVIDE PANEL WITH TYPED DIRECTORY PER PAREL DIAGRAMS. INSIDE PARELS, BUNDLE WIRES NEATLY. FIELD VERIFY ALL PAREL SCHEDULE LOAD VALUES. PROPERLY SEAL ALL FIRE-WALL PENETRATIONS.

2. WHEN FIELD VERIFYING EQUIPMENT, CHECK EQUIPMENT RATING, EQUIPMENT INTEGRITY AND FUNCTIONALITY, INCLUDING ASSOCIATED HARDWARE AND WIRE, CIRCUIT LOAD, AND RECOMMEND TO THE OWNER ANY NECESSARY EQUIPMENT UPGRADES.

CONDUCTORS.

5. LABEL EACH BOX COVER PLATE WITH CIRCUIT NUMBER: POWER, LIGHTING AND COMMUNICATIONS WIRING AND/OR CONDUIT RUNS SHALL MAINTAIN A 1FT MINIMUM SEPARATION.

6. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL, MECHANICAL, PLUMBING AND GENERAL CONTRACTOR TO EXAMINE THESE DRAWINGS AND CORRESPONDING SPECIFICATIONS SECTIONS FOR WORK TO BE PERFORMED BY OTHER TRADES SHOWN ON THESE DRAWINGS.

ELECTRICAL SHEET KEYED NOTES:

RELOCATED CARD READER: SECURITY COMPANY TO MOVE READER. COORDINATE RELOCATION OF POWER WITH SECURITY COMPANY.

## LIGHTING CONTROLS:

- \$

# - SURFACE CONDUIT 23100FO

NOTES: INSTRUCTIONS. 2. SUPPLY WIRE AND COVER CLIPS AS NEEDED.

5. DEMONSTRATE PROPER INTERIOR NIGHT-TIME BACK-UP SHUT-OFF, EMERGENCY LIGHT TEST. AND ANY FIRE ALARM EXIT LIGHT STRATEGY TO OWNER AND AHJ. INSTRUCT OWNERS DESIGNATED REPRESENTATIVE REGARDING SYSTEM TESTING AND OPERATION.

3. ALL NEW WIRING SHALL BE SURFACE MOUNTED; RUN ISOLATED GROUNDS TO EACH OUTLET.

4. VERIFY J-BOX LOCATIONS SHOWN ON DRAWINGS WITH EQUIPMENT INSTRUCTIONS JUST PRIOR TO ROUGHIN. BOND EACH BOX TO GROUND USING A GROUND WIRE RUN WITH CIRCUIT

ELECTRIC SECURITY DOOR HARDWARE; COORDINATE INSTALLATION OF POWER WITH SECURITY COMPANY.

REPLACE EXISTING FIXTURE WITH NEW SURFACE MODULAR COMMERCIALS: 2%4; (3) 32W 18: 125" ACRYLIC DIFFUSER: FLUSH STEEL GASKETED DOOR: (2) 120-277V PARALLEL INSTANT START BALLAST-UL: MH=9: EQUAL TO LITHONIA 2M332A12125MVOLTGEB10IS.

WIREMOLD 2300BACD, 20A GFI DUPLEX AND RJ45 DATA OUTLETS RUN TO SERVER ROOM: +45° AFF; VERIFY EXACT LOCATION WITH ARCHITECT.

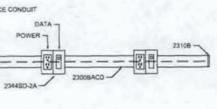
5 VFD LOCATION: SEE MECHANICALS FOR SPECIFICATIONS AND INTERCONNECT.

BID ALT #2 DROP-OFF WINDOW: PROVIDE BUZZER CIRCUIT WITH PUSHBUTTON AS DIRECTED BY ARCHITECT.

BID ALT #1 COUNTER: WIREMOLD 2300BACD, 204 GFI DUPLEX AND R345 DATA OUTLETS RUN TO SERVER ROOM: 445\* AFF: VERIFY EXACT LOCATION WITH ARCHITECT.

SENTRY TOGGLE WALL SWITCH, 0.5 AMP TO 5 AMP LOAD, MECHANICAL RESET TO OFF AUTOMATICALLY WHEN INPUT POWER IS INTERRUPTED FOR 5 SECONDS, MINI NEON LIGHT LOCATOR, SINGLE GANGE, WALL PLATE NOT INCLUDED: 1202777 RATED, CALIFORNIA TITLE 24 COMPLIANT, UL: MH445" AFF, (SENTRY LLC - SS05277)

OUAL TECHNOLOGY LINE VOLTAGE CEILING OCCUPANCY SENSOR: 120277V: WHITE: 5 YEAR WARRANTY, CA TITLE 24 COMPLIANT, UL. (EQUAL TO WATTSTOPPER #DT-355)



## TYPICAL WIREMOLD 2300BACD SYSTEM DIAGRAM

I. WIREMOLD SHALL BE SCREWED TO WALL ACCORDING TO MANUFACTURERS



EJQ ENGINEERING
Electrical Engineering Consulting
S445 Covey Creek Citile Stockton, California (5207 E: elamopr@sbookbal.net T: (209) 873-4137 Ed Oueinske, P.E. LEED AP

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NON-RESIDENTIAL COMPLIANCE MANUAL

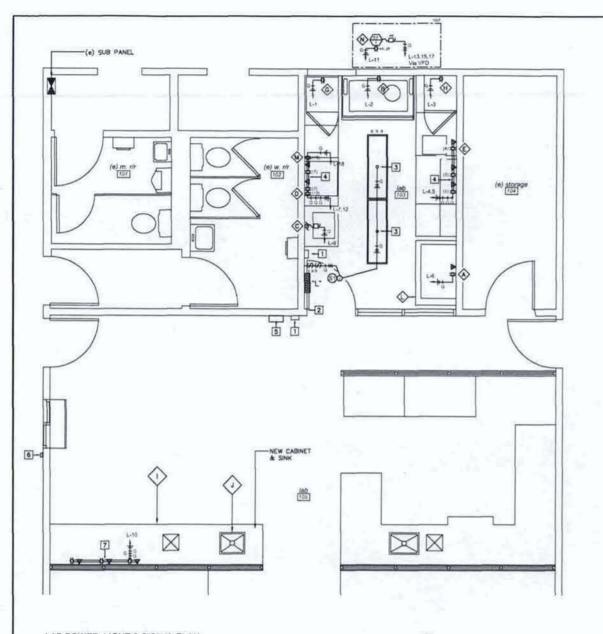
2. OVERRIDE FOR BUILDING LIGHTING SHUT-OFF: IF TIME CLOCK IS USED. THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANLAN ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVERRIDE IS NOT TO EXCEED \$,000 SQFT OR 20,000 SQFT FOR MALL, AUDITORIUM, RETAIL SPACE, INDUSTRIAL SPACE, CONVENTION CENTER OF ARENA. LIGHTING EQUIPMENT DEVICES CERTIFIED: ALL DEVICES USED SHALL BE CERTIFIED AND COMPLY WITH SECTIONS 111 & 119 OF THE 2009 NON-RESIDENTIAL COMPLIANCE MANUAL: ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.

4. INDIVIDUAL ROOMAREA CONTROLS: EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPERATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR TO-CER ING WALLS.

5. UNIFORM REDUCTION FOR INDIVIDUAL RODAIS: ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 0.8 WATTS PIR SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH MULTIL-EVEL SWITCHING FOR UNFORM REDUCTION OF URGHTNIG WITHIN THE ROOM ALSO IF A SINGLE LUMINARE HAS MORE THAN TWO LAMPS.

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	10.03010 REVISIONS BY
	PACIFIC DESIGN ASSOCIATES
	CA TITLE-24 ELECTRICAL APPLICATIONS
	Public Health Lob Renovations for: STANSLAUS COUNTY HEALTH SERVICES AGENCY 820 SCENIC DRIVE Modesto, California 95350
ADLO ADLO	0ate 12-02-10 Scale as noted Draws e.jo Job 10.09026 Sheet E 3.0 y 3



LAB POWER, LIGHT & SIGNAL PLAN SCALE 38" + F

EQUIPMENT SCHEDULE SYM DESCRIPTION MAKE/MODEL LOAD REMARKS A PCR SYSTEM: DUPL AMP MODULE\* ROCHE APPLIED SCIENCE/MAGNA PURE LC 2.0 10A, 110VAC NEMA 5-15, MH=45"; DATA B BIOSAFETY CABINET NUAIRE/435-400 8A. 110VAC NEMA 5-15 MH=45" C SINK WITH DRAIN PUMP\*\* STARITE DP2, 1/3HP, 110V 7A, 110VAC 1 HP DISCONNECT D AIR CLEAN PCR WORKSTATION\* QIAGEN/QIA CUBE 6A. 110VAC NEMA 5-15, MH=45" E CENTRIFUGE\* APPLIED BIOSYSTEMS/7500 FAST DX 8A. 110VAC NEMA 5-15, MH=45": DATA F BENCH WORKSTATION G REFRIGERATOR\* REVCO/REB-404A BA, 110VAC NEMA 5-15, MH=45"; 15A CB REVCO/ULT-430A 8A, 110VAC NEMA 5-15, MH=45": 15A CB H FREEZER\* I COUNTER\*\* J SINK\*\* BID ALT. #1 K PENNINSULA ISLAND\*\* LIBERTY INDUSTRIES INC./7-750-304 H 1 STEEL TABLE\*\* M WATER PURIFICATION SYSTEM\* PURELAB/ELGA OPTION-Q7 4.0A, 110VAC NEMA 5-15, MH=45" N EF-1 (ROOF EXHAUST FAN)\*\* GREENECK 115 SWB; 2HP, 208V, 3PH 7.5A, 208VAC 3 HP DISCONNECT

NOTES:

NOIES: 1. COORDINATE OUTLET MOUNTING LOCATIONS WITH EQUIPMENT INSTRUCTIONS AND FIELD CONDITIONS; GET LOCATION APPROVAL FROM ARCHITECT BEFORE ROUGH-IN, 2. EF-1 SHALL BE CONTROLLED BY VFD; SEE MECHANICAL DRAWINGS FOR INTER-CONNECTIONS. 3. SUPPLY GST-1 CIRCUIT; COORDINATE WITH MECHANICAL. 4. \* - OWNER PROVIDED; \*\* - GENERAL CONTRACTOR PROVIDED.

COMMUNICATIONS NOTES:

1. DATA AND TELCO SHALL INCLUDE RJ45 AND RJ11 CONNECTIONS AND CATSE CABLES ( CABLE 15.0.275 INCHES IN DIAMETER), PROVIDE CONDUIT IN INACCESSIBLE SPACE AND HANGERS ABOVE CEILING IN ACCESSIBLE SPACE, PROPERLY SEAL ALL FIRE-WALL PENETRATIONS.

2. RUN DATA AND TELCO CARLES TO DATA/TELCO ROOM (SEE E1.0). LEAVE 20ET OF COLED CABLE ON FLOOR FOR IT PERSONNEL TO MAKE TERMINATIONS IN DATA/TELCO ROOM.

3. IN LAB: PROVIDE CONDUIT, BOX. 110 TERMINATIONS AND COVER PLATE: LABEL BOTH ENDS OF CABLE "D#" FOR DATA, "T#" FOR TELCO. ALL CONDUIT RUNS IN LAB SHALL BE SURFACE MOUNTED, VERIFY EXACT OUTLET LOCATIONS WITH ARCHITECT BEFORE WORK BEGINS.

4 FOULOW MANUEACTURED'S GUIDELINES OUDING INSTALLATION OF CATSE SYSTEM Including the use of PROPER CONNECTORS AND FITTINGS. THE MAXIMUM LENGTH OF ANY CABLE RUN SHALL BE 300 FEET.

5. DO NOT EXCEED A PULLING TENSION OF 20% OF THE ULTIMATE BREAKING STRENGTH RATING OF CARLE

6. DO NOT BEND, INSTALL, OR RACK ANY CABLE IN AN ARC LESS THAN 12 TIMES (12X) THE CABLE DIAMETER. TERMINATE CABLES WITH APPROPRIATE CONNECTORS.

7. ALL INSTALLATION AND ROUTING SHALL CONFORM TO EVATIA 568. THE TWISTED PAIR WIRES SHALL BE TWISTED ALL THE WAY TO THE CONNECTORS TO HELP ELIMINATE CROSSTALK BETWEEN LINES.

8. A CABLE TESTING DEVICE SHALL BE USED ON ALL CABLES TO CHECK FOR ANY DEFECTS IN CABLES OR INSTALLATION PROCEDURES. CABLE IMPEDANCE, OPENS, SHORTS, CROSSTALK AND NOISE INTERFERENCE SHALL BE INCLUDED IN THE TESTING PROCEDURES.

## TERMINAL

- RJ45 DATA SINGLE-GANG WALL OUTLET, BOX AND FLUSH COVER PLATE: 110 STYLE PUNCHDOWN TERMINAL; LABEL COVERPLATE AND CABLE (BOTH ENDS) WIT PORT #: MH=45"AFF
- $\nabla$ RJ11 TELCO SINGLE-GANG WALL OUTLET. BOX AND FLUSH COVER PLATE: 110 STYLE PUNCHDOWN TERMINAL: LABEL COVERPLATE AND CABLE (BOTH ENDS) WITH T#: MH#45"AFF.

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(BID ALT #2) TYPICAL BUZZER CIRCUIT DIAGRAM NOTES 1. LOCATE PUSHBUTTON (P.B.) AND BUZZER PER ARCHITECTS INSTRUCTIONS.

LIGHTING NOTES: PROVIDE LIGHT FIXTURES WIRED AS SHOWN AND PER RESPECTIVE SHEET KEYED NOTES WITH I PROMUE DON'T PALICIDES STOWN AND PER REPECT RETEX AND FEM REPECT REPORTED REPECT REPORTED REPORTE

2. FLUORESCENT BALLASTS SHALL BE PARALLEL INSTANT START ELECTRONIC TYPE UNLESS 2. FLUORESCENT BALLASTS SHALL BE PARALLEL INSTANT START ELECTRONIC TYPE UNLESS OTHERWISE NOTED, CLASS-P THERMALLY PROTECTED, SHALL HAVE CLASS A SOUND RATING, AND SHALL COMPLY WITH 1992 FEDERAL ENERGY POLICY ACT, FLUORESCENT BALLASTS SHALL BE HIGH-FREQUENCY ELECTRONIC, MINIMUM 90% BALLAST FACTOR, MAXIMUM 20% TOTAL HARMONIC DISTORTION (THD), INSTRUCT OWNER ON CLEANING OF LIGHT LENSES AND REFLECTORS ON REGULAR SCHEDULE TO MAINTAIN LIGHT QUALITY OUTPUT.

3. CEILING OR WALL SUSPENDED FIXTURES OR LIGHTING SYSTEMS SHALL BE INSTALLED BY CONTRACTOR ACCORDING TO WRITTEN MANUFACTURER'S INSTRUCTIONS AND BY FOLLOWING THE NEC CODE.

4. PLACE CEILING OCCUPANCY SENSOR FOR BEST PERFORMANCE. PROGRAM OCCUPANCY SENSORS TO BEST SUIT THE ROOM APPLICATION AND OCCUPANTS NEEDS.

5. DEMONSTRATE PROPER INTERIOR NIGHT-TIME BACK-UP SHUT-OFF. EMERGENCY LIGHT TEST, AND ANY FIRE ALARM EXIT LIGHT STRATEGY TO OWNER AND A-L. INSTRUCT OWNERS DESIGNATED REPRESENTATIVE REGARDING SYSTEM TESTING AND OPERATION.

POWER NOTES: 1. EQUIP AND WIRE PANELS AS SHOWN, EXCEPT FOR UNAVOIDABLE CHANGES. PROVIDE PANEL WITH TYPED DIRECTORY PER PANEL DIAGRAMS. INSIDE PANELS, BUNDLE WIRES NEATLY, FIELD VERIFY ALL PANEL SCHEDULE LOAD VALUES. PROPERLY SEAL ALL FIRE-WALL PENETRATIONS

2. WHEN FIELD VERIFYING EQUIPMENT, CHECK EQUIPMENT RATING, EQUIPMENT INTEGRITY AND FUNCTIONALITY, INCLUDING ASSOCIATED HARDWARE AND WIRE, CIRCUIT LOAD, AND RECOMMEND TO THE OWNER ANY NECESSARY EQUIPMENT UPGRADES.

3. ALL NEW WIRING SHALL BE SURFACE MOUNTED: RUN ISOLATED GROUNDS TO EACH OUTLET.

6. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL. MECHANICAL. PLUMBING AND GENERAL CONTRACTOR TO EXAMINE THESE DRAWINGS AND CORRESPONDING SPECIFICATIONS SECTIONS FOR WORK TO BE PERFORMED BY OTHER TRADES SHOWN ON THESE DRAWINGS.

ELECTRICAL SHEET KEYED NOTES:

I RELOCATED CARD READER: SECURITY COMPANY TO MOVE READER. COORDINATE RELOCATION OF POWER WITH SECURITY COMPANY.

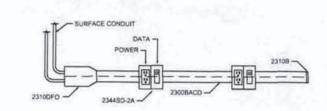
2 ELECTRIC SECURITY DOOR HARDWARE: COORDINATE INSTALLATION OF POWER WITH URITY COMPANY

3 REPLACE EXISTING FIXTURE WITH NEW SURFACE MODULAR COMMERCIALS: 2'x4'; (3) 32W T8: .125" ACRYLIC DIFFUSER: FLUSH STEEL GASKETED DOOR: (2) 120-277V PARALLEL INSTANT START BALLAST.UL: MH=2". EQUAL TO LITHONIA 2M332A12125MVOLTGEB10IS.

WIREMOLD 2300BACD, 20A GFI DUPLEX AND RJ45 DATA OUTLETS RUN TO SERVER ROOM: +45" AFF; VERIFY EXACT LOCATION WITH ARCHITECT.

LIGHTING CONTROLS:

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- 0





4. VERIFY J-BOX LOCATIONS SHOWN ON ORAMINGS WITH EQUIPMENT INSTRUCTIONS JUST PRIOR TO ROUGH-IN. BOND EACH BOX TO GROUND USING A GROUND WIRE RUN WITH CIRCUIT CONDUCTORS.

5. LABEL EACH BOX COVER PLATE WITH CIRCUIT NUMBER: POWER, LIGHTING AND COMMUNICATIONS WIRING AND OR CONDUIT RUNS SHALL MAINTAIN A 1FT MINIMUM SEPARATION.

5 VFD LOCATION: SEE MECHANICALS FOR SPECIFICATIONS AND INTERCONNECT.

BID ALT #2 DROP-OFF WINDOW: PROVIDE BUZZER CIRCUIT WITH PUSHBUTTON AS DIRECTED BY ARCHITECT.

BID ALT #1 COUNTER: WIREMOLD 2300BACD, 20A GFI DUPLEX AND R.45 DATA OUTLETS RUN TO SERVER ROOM: +45" AFF: VERIFY EXACT LOCATION WITH ARCHITECT

SENTRY TOGGLE WALL SWITCH, 0.5 AMP TO 5 AMP LOAD, MECHANICAL RESET TO OFF AUTOMATICALLY WHEN INPUT POWER IS INTERRUPTED FOR SECONDS, MIN REDN LIGHT LOCATOR, SINGLE GANGE, WALL PLATE NOT INCLUDED; 120/27/V RATED, CALIFORMA TITLE 24 COMPLIANT, UL; WH-45' AFF, ISENTRY LLC - SS05277)

DUAL TECHNOLOGY LINE VOLTAGE CEILING OCCUPANCY SENSOR: 120/277V; WHITE: 5 YEAR WARRANTY: CA TITLE 24 COMPLIANT, UL: (EQUAL TO WATTSTOPPER #DT-355)

## TYPICAL WIREMOLD 2300BACD SYSTEM DIAGRAM

1. WIREMOLD SHALL BE SCREWED TO WALL ACCORDING TO MANUFACTURERS 2. SUPPLY WIRE AND COVER CLIPS AS NEEDED.





10.03010  REVISIONS BY
PACHC DESIGN ASSOCIATES, IA. In the many of the many o
LIGHT, POWER & SIGNAL PLAN
Public Health Lab Renovations for: <b>STANISLAUS COUNTY</b> HEALTH SERVICES AGENCY 820 SCENIC DRIVE Modesto, California 95350
DATE 12-02-10 SCALE AS NOTED SRAW EJQ COB 10.09026 PHEET E2 a 0 pr 3

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## MANDATORY MEASURES (INDOOR)

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THE BUILDING LIGHTING SHUT-OFF THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF OCCUPANCY SENADORS OF TIME CLOCK PER SECTIONS 119 & 131(d) OF THE 2008 NON-RESIDENTIAL COMPLIANCE MANUAL

2. OVERRIDE FOR BUILDING LICHTING SHUT-OFF IF TIME CLOCK IS USED. THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LICHTIS. THE AREA OF OVERRIDE IS NOT TO EXCEED 5.000 SQFT OR 20.000 SQFT FOR MALL, ADDITORTINH, RETAIL BPACE. INDUSTRIAL SPACE. CONVENTION GENTER OR ARENA.

3. LIGHTING EQUIPMENT DEVICES CERTIFIED ALL DEVICES URED SHALL BE CERTIFIED AND COMPLY WITH SECTIONS 111 & 119 OF THE 2008 NON-RESIDENTIAL COMPLIANCE MANUAL: ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.

4. INDIVIDUAL ROOMAREA CONTROLS EACH ROOM AND AREA IN THIS BUILDING IS ÉQUIPPED WITH A SEPERATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CELING WALLS.

5. UNIFORM REDUCTION FOR INDIVIDUAL ROOMS. ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 0.8 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH MULTIL\_SELES SWITCHING FOR UNIFORM REDUCTION OF UNDITTING WITHIN THE ROOM ALSO IF A SINGLE LUMINARE HAS MORE THAN TWO LAMPS.

E. DAYLIT AREA CONTROL ALL ROOMS THAT ARE GREATER THAN 250 SQUARE FEET AND CONTAIN WINDOWS AND SKYLIGHTS. THAT ALLOW YOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA BHALL HAVE SON OF THE UIGHTMS OWER IN EACH DAYLIGHT IN THE AREA BHALL HAVE SON OF THE UIGHTMS OWER IN EACH DAYLIGHT AREA CONTROLLED BY A SEPERATE SWITCH, OR THE EFFECTIVE USE OF DAYLIGHT THROUGHOUT CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILDING ON THE ADJACENT LOT. DURARMA OF SHADING DURIND DIFFERENT TIMES OF YEAR IS INCLUDED ON PLANS, IF APPLICABLE.

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	PACEC DESIGN ASSOCIATES, IC. In a contract a source of the
	CA TITLE-24 ELECTRICAL APPLICATIONS
	Public Health Lob Renovations for: <b>5TANSLAUS COUNTY</b> <b>HEALTH SERVICES AGEWCY</b> 820 SCDNC DRIVE Modesto, California 95350
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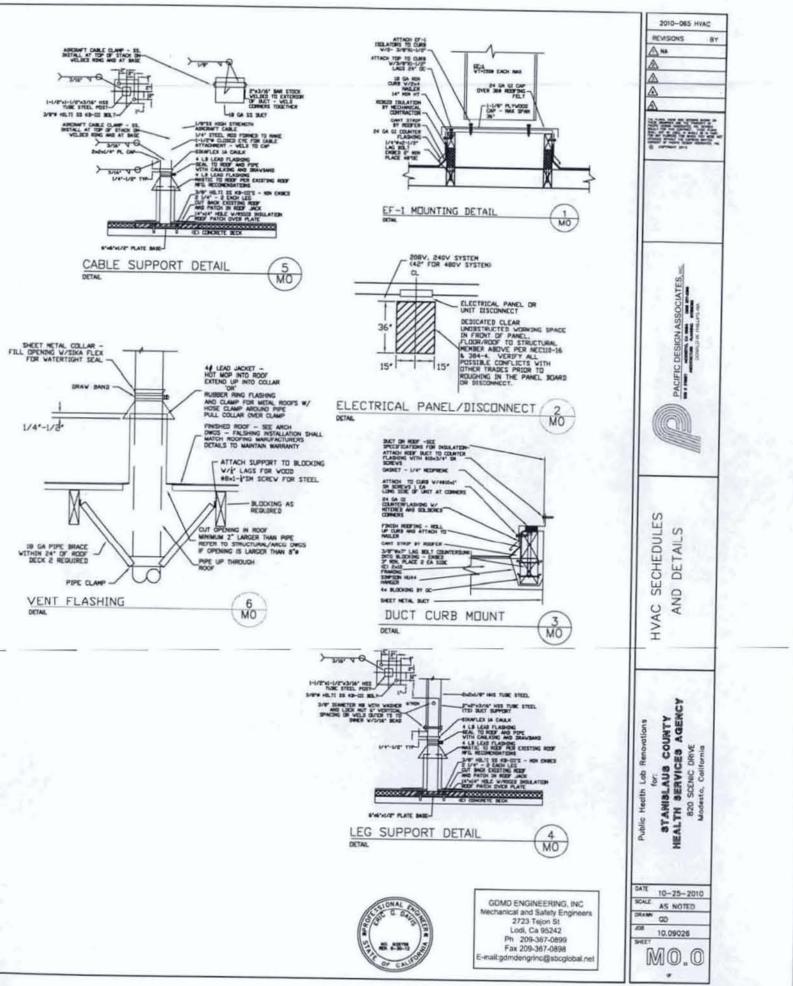
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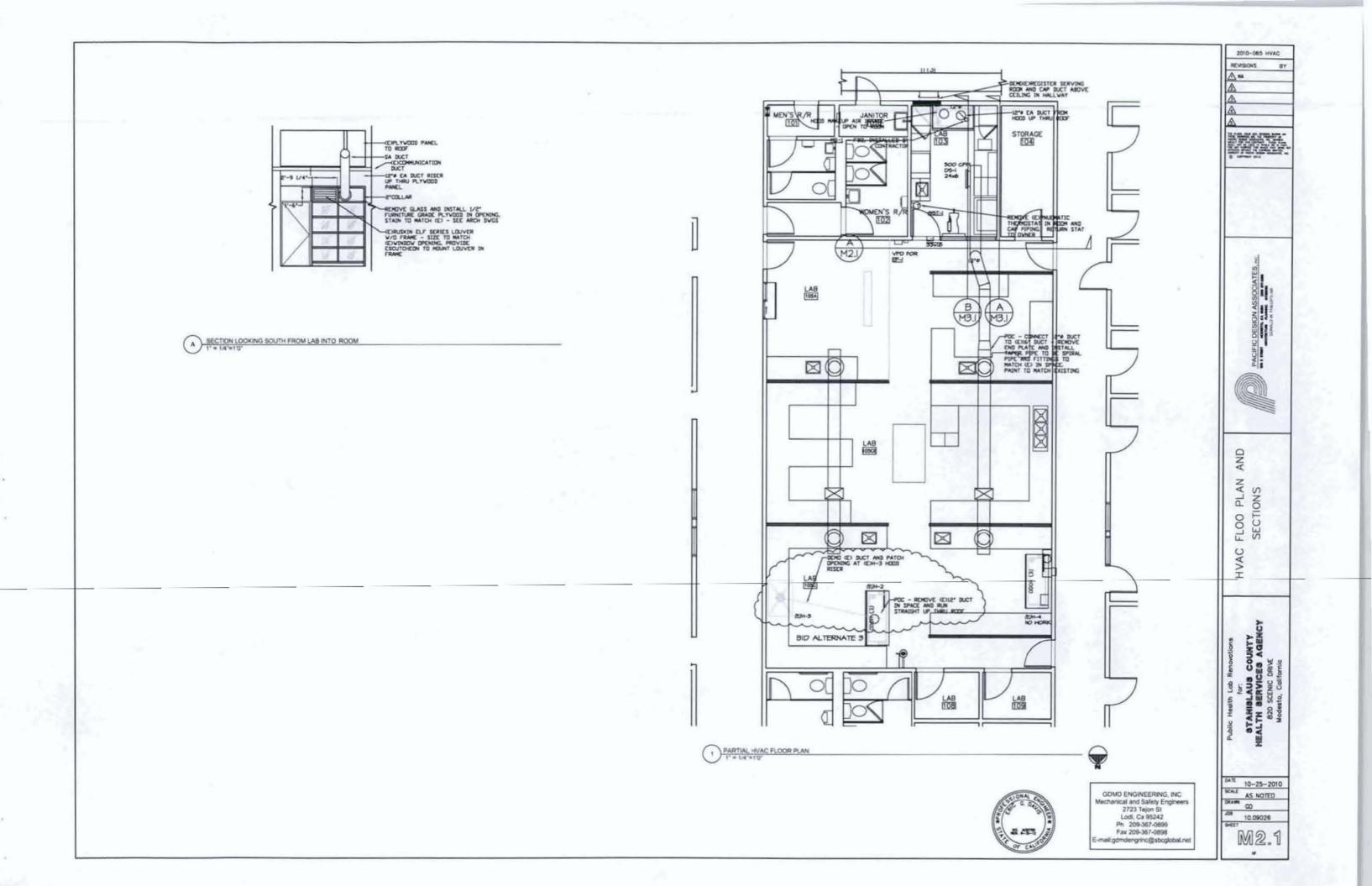
engraved plates with U/2' tail lettering indicating the equiperior humber and state the areas served by the equiperit certified ar balance showing system has been balanced and DSA quantities set to that shown on drawings. 16. All first duct will be stretched as tight as possible and as per nanufacturers listing to avoid all kries and sagging. 17. All snoke director's shall be tested as required with an approved snoke system per the City of Stocktows standards in the presence of the inspector or fire marshall. 18. Condensate drawing lines shall be UV resistant CPVC or PVC pipe shall be painted to protect from UV radiation.

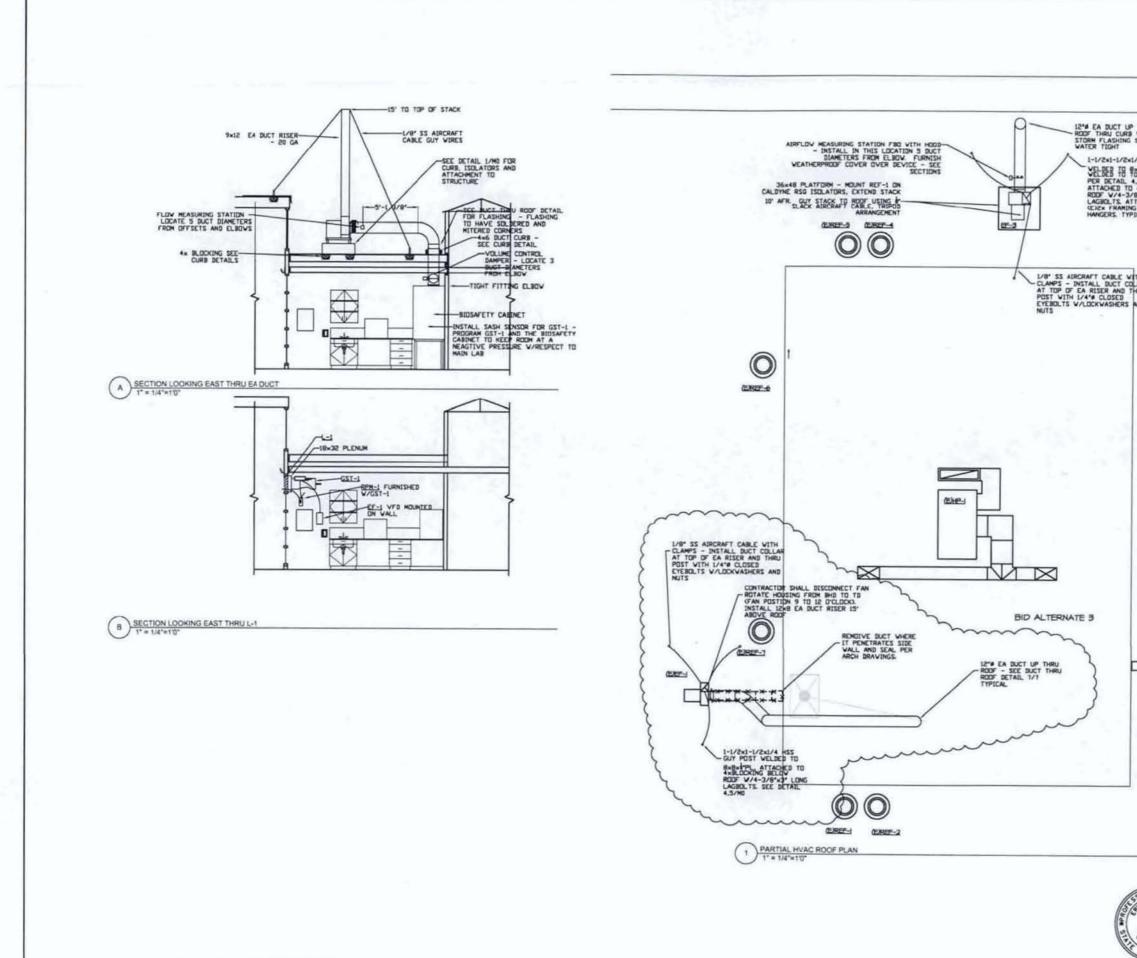
## 1-24 NANDATORY FEATURES

EQUIPMENT CONTIFIED TO MINHUM EFFICIENCY M-0 CONTROL COULPHENT CONTIFIED TO 1194 AND 12LCL N/A PILOT LIGHTS PROHIBITED PER 115 N/A VIONILATION REQUIREMENTS PER 1210\_CMB H-1 AIR BALANCE NATURAL, VENTLATION PER 1210\_CMB H-1 AIR BALANCE CONTROLS NEET REQUIREMENTS 122. M-0, See Notes. SHALT DOWN AND BACKBAFT GAMPERS PER 122.F See Schedules on M-0 ISDLATION AND BACKBAFT GAMPERS PER 122.F See Schedules on M-0 ISDLATION AND BACKBAFT GAMPERS PER 122.F See Schedules on M-0 ISDLATION FOR DEVICES PER 122.G N/A PIPE INSURATION PER 123.G N/A REQUIREMENTS FOR DUCTS AND PLENUMS PER 124 M-0, SPECIFICATIONS

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	AND DACT WITH MELANDA	-
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	HVAC ROOF PLAN AND SECTIONS
	Public Health Lob Renovations for: aTAMISLAUS COUNTY MEALTH SERVICES AGENCY 820 SCENIC DRIVE Modesto, Colifornia
GDMD ENGINEERING, INC Mechanical and Safety Engineers 2723 7ejon St Lodi, Ca 95242 Ph. 209-367-0899 Fax 209-367-0898 E-mail:gdmdengrinc@sbcglobal.net	DATE 10-25-2010 SCALE AS NOTED ORAME GD -00 10.09026 SHEET M 3 1

-		MBING FIXTURE SCHE	DULL
Not.	Note	Trim	Accessifies
08-1	STARTE DP2	5 GALLON SELF CONTAINED DRAIN SYSTEM, TES, BRAND, GRANBER HOUR, ARC'S SOV, 10 HP HOTOR HITH CONTROLS, GRANBER PART KAPEDR 48C-14.	
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PLUNBING NOTES

ALL WORK SHALL CONFORM TO THE FOLLOVINGS CODES-

2007 CBC 2007 CPC 2007 CMC 2007 CEC

CONTRACTOR SHALL KEEP ALL DETALLATION INSTRUCTIONS FOR PLUMBING FIXTURES, ACCESS DOORS, SCALING NATERIAL, FIRE STOPPING, ETC. ONSITE IN VATERPROOF POUCHES FOR THE INSPECTING AUTHORITY FOR THEIR REVIEW.

PLUNDING CONTRACTOR SHALL SUBNIT 7 SETS OF SUBNITTALS FOR REVIEW AND COMMENT BY THE ENGINEER AND ARCHITECT OF RECORD FOR THE FIXTURES LISTED AND THE MATERIAL TO BE USED AND INSTALLED ON THIS PROJECT AND SHALL MAKE THE APPRPRIATE CHANGES AS DIRECTED BY THE ENGINEER AND ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

MATERIALD COLD AND HOT VATER TYPE 1: COPPER ABOVE GROUND AND TYPE 1: BELDY. FURNISH SAUTOFF VALVES WHERE SHOWN SHUT OFF VALVES SHALL BE BALL TYPE VITH TEFLON SEATS, STAINLESS STEEL BALL, AND DOUBLE DRING STEN 1/4 TURN. VALVES TO BE RATED FOR VOG SERVICE. PROVIDE DIELECTRIC UNDORS AT ALL DISSINILAR NETAL CONNECTIONS. INSULATE HOT VATER SUPPLY AND RETURN LINES V/1" FIBERGLASS ASJ MEETING THE REQUIREMENTS OF T-24 MANDATORY FEATURES.

SCH 48 CPVC BELOV GRADE DUTSIDE, SIZE AS INDICATED ON THE DRAVINGS. CONTRACTOR SHALL COORDINATE HIS VORK VITH OTHER TRADES. CONTRACTOR SHALL DISINFECT VATER LINES PER AVA GUIDLINES AND PROVIDE THREE COPIES FROM AN INDEPENDENT TEST LAB. VATER SHALL BE TESTED FOR VATER BORNE BACTERIUM, SPORIDUM AND OTHER PATHOGENS AT THE THE OF DCCUPARCE AND CERTIFY THE SYSTEM PASSED THESE TESTS.

SEVER - ABS PIPE AND FITTINGS ABOVE AND BELOV GRADE, CI PIPE VITH ESCUTCHEONS WHERE PROVIDITED BY CODE AND THE LOCAL JURISDICTION. CLEANDUTS SHALL BE PROVIDED EVERY 100 FT AND AT EACH CHANGE OF DIRECTION GREATER THAT 90% USE OF ABS PIPE RIS LIMITED TO BUILDINGS & ON LESS STORIES IN MEIGHT AND CANNOT BE USED VITHIN FIRE RATED ASSEMBLIES.

# VENT LINES - SEE SEVER LINES.

HVAC CONDENSATE DRAIN LINES - TYPE W COPPER PIPE AND FITTINGS INSIDE BUILDING AND SCH 40 PVC PIPE DUTSIDE BUIDLING, PROVIDE CLEANDUT AT EACH CHANGE OF DIRECTEDN AND AT COL CONVECTION.

GAS 3 PSI SERVICE - 2-1/2" AND SMALLER SMALL BE SCH 40 GI SCREWED PIPE AND FITTINGS. 3" AND LARGER SWALL BE SCH 40 VELDED PIPE AND FITTINGS. EXPOSED PIPE SMALL BE GALVANIZED. BURIED PIPE SHALL BE COVERED VITH X-TRU CDAT. ALL PIPE INSIDE BUILDING SMALL BE VELDED. 7" VC SERVICE - SCH 40 GALVANIZED IRON PIPE AND FITTINGS DUTSIDE BUILDING AND SCH 40 BLACK IRON PIPE INSIDE BUILDING. PAINT VHERE EXPOSED TO INTERIOR FINISHES.

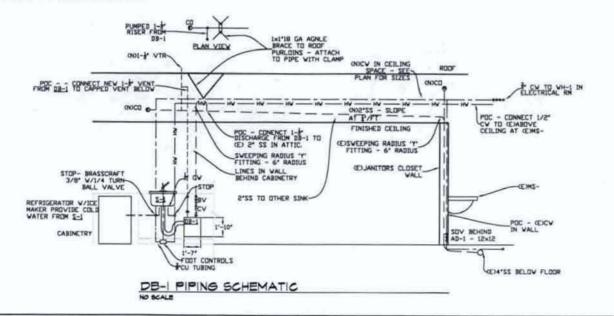
EIXTURES NOUN IN ALL MANDICAP FIXTURES PER THE DETAILS FOUND IN UBC CHAPTER 11, THE ARCHITECTURAL DRAVINGS AND LOCAL CODE REQUIREMENTS. NOTIFY ARCHITECT IN VRITING OF CONFLICTS.

# SUBMITTALS PROVIDE SEVEN SETS OF SUBMITTALS FOR REVIEW.

INSTALLATION BRACE ALL PIPE AND DUCT SYSTEMS PER SMACHA BEISMIC RESTRAINT GUIDELINES INCLUDING CHANGES DE DIRECTION AND CHANGES IN ELEVATION OF MORE THAN 10'.

CPVC INSTALLATION INSTALLATION OF CPVC FOR NEW AND REPLACEMENT SYSTEMS HIST COMPLY WITH THE REQUIREMENTS AS STATED IN CHAPTER 6 AND INSTALLATION STANDARDS TAPHO IS-20-2005, ALL PROCEDURES HIST BE FOLLOWED FOR FLUSING AND VORKET SAFETY MEASURES. INCLUDED ARE THE PONALTIES AS STATED ON CHAPTER 6 (g), ANY CONTRACTOR OR SUBCONTRACTOR FOLLOWED TO HAVE FAILED TO COMPLY WITH THE VISITIATION GIVE OF FLUSING REQUIREMENTS OF SECTION L22 OF APPENDIX I OF THIS CODE, INSTALLATION STANDARDS FOR CPVC SOLVENT CEMENT HAT AND COLD WATER DISTRIBUTION STEMS. JAMPO IS-20-2005 SHALL BE SUBJECT TO THE PENALTIES ON HEALTH AND SAFETY CODE, DIVISION 13, PART IS CHAPTER 6 SECTION 17995.

IN ADDITION IF DURING THE CONDUCT OF ANY BUILDING INSPECTION, THE BUILDING OFFICIAL FINIS THAT THE VENTLATION AND GLOVE REQUIREMENTS OF SECTION 122 OF APPENDIX I OF THIS CODE, SPECIAL REQUIREMENTS FOR CPVC INSTALLATION WITHIN RESIDENTIAL BUILDINGS ARE BEING VIDLATED, BUILDING OFFICIAL SHALL CITE THE CONTRACTOR OR SUBCONTRACTOR FOR THE VIDLATED, WHER THE CALIFORNIA PLUMBER CODE.





FIXTURE	CONNEC	TION S	CHEDU	LE	
PLUMBING	SAN	TARY.	WATER		
FIXTURE	SEWER	VENT	COLD	HOT	
WATER CLOSET FV	3.	2	1e.		
WATER CLOSET FT	1.3"	2*	1/2*		
URINAL FV	2"	1-1/2"	34"	1.10	
URINALET	7	1-1/2"	12*		
LAVE	20	1-1/2	12	1/27	
BAR SINK	7	1-12"	1/2*	1/2"	
CLASSROOM SINK	2	1-1/2"	1/2*	1/2*	
KITCHEN SINK	2	1-1/2"	1/2"	1/2	
MOP SINK	3	2"	34*	34	
TRAP PRIMER			1/2*	1.	
FD-2"	2	1-1/2"		1.4	
10-3	3"	. 2			
FLOOR SINK 2"	- 2*	1-1/2"		1.4	
FLOOR SINK 3"	3*	1-1/2"		5.6	
SHOWER + RES.	7	1-1/2*	1/2"	1/2*	
EYEWASH	7	1-1/2"	1.2"		

