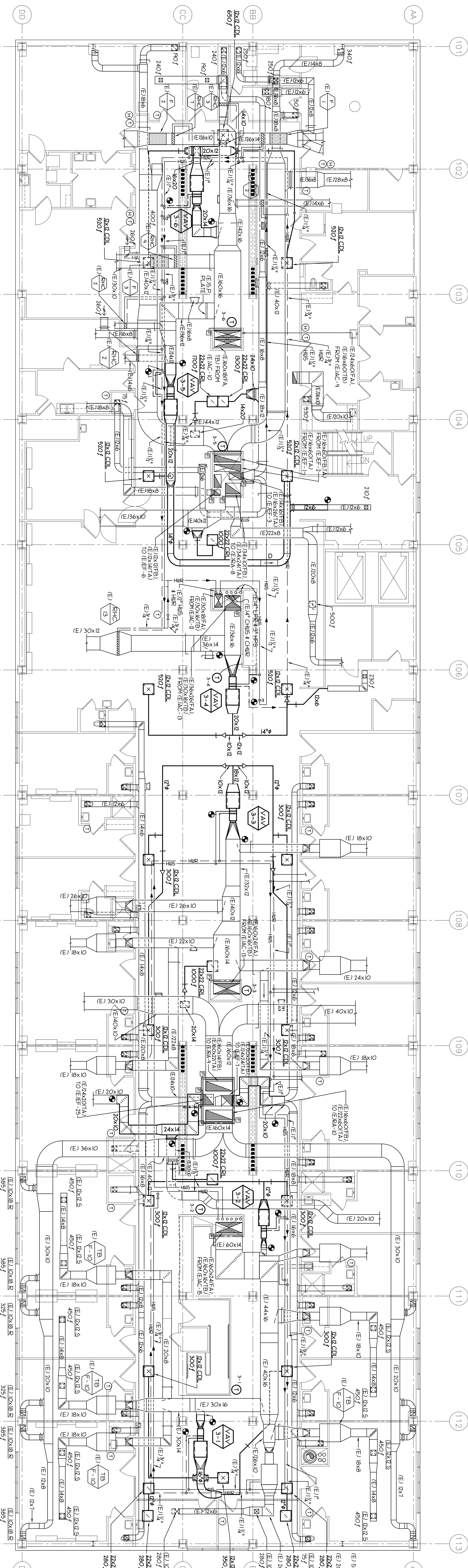


HVAC DEMOLITION PLAN - THIRD FLOOR  
SCALE : 1/8" = 1'-0"

SHEET NOTES:  
REMOVED DUCTWORK, TERMINAL BOXES, AND ANY ASSOCIATED PIPING WHERE INDICATED AS NECESSARY FOR SEISMIC RISK. SEE DETAIL (E) DUCTWORK, TERMINAL BOXES, AND ASSOCIATED PIPING AFTER COMPLETION OF SEISMIC WORK.

- GENERAL NOTES:
- SEE TABLE OF DUCT SIZES ON SHEET M002 FOR SIZE OF BRANCH DUCTS TO INDIVIDUAL DIFFUSERS, REGISTERS, & GRILLES SHOWN ON PLAN UNLESS THE DUCT SIZE IS SHOWN ON THE FLOOR PLAN.
  - SEE TERMINAL UNIT SCHEDULE ON SHEET M002 FOR IN BOX SIZES. SIZE OF DUCT SHOWN TO TERMINAL UNIT SHALL BE THE BOX MULET SIZE AS SCHEDULED UNLESS NOTED OTHERWISE ON FLOOR PLAN. SEE ALSO DETAILS 5/1950, 6/1950, 6/1950, 6/1950 FOR IN BOX SOUND ATTENUATORS DUCT SIZES.
  - PROVIDE MANUAL AIR DAMPERS AT DUCT BRANCHES TO ALL DIFFUSERS, REGISTERS, AND GRILLES.
  - COORDINATE POWER FOR VAV'S AND TCR'S WITH DIVISION 16. DIVISION 16 HAS PROVIDED 200V/10 AMP POWER CIRCUITS AT JUNCTION BOXES. DISTRIBUTED THROUGHOUT THE BUILDING ABOVE THE CEILING ABOVE THE VAV'S AND TCR'S. POWER WIRING AND CONDUIT FROM THE 200V JUNCTION BOXES TO THE VAV'S AND TCR'S SHALL BE PROVIDED BY DIVISION 16. CONTROL S FROM THE 200V JUNCTION BOXES TO THE VAV'S AND TCR'S.
  - CONDUIT AND WIRING BY DIVISION 16. CONTROL S FROM THE 200V JUNCTION BOXES TO THE VAV'S AND TCR'S.
  - ALL HUBS & HUB BRANCH LINES TO TERMINAL UNITS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
  - HATCHED AREAS DENOTE TEMPORARY REMOVAL OF DUCT AND PIPING SYSTEMS FOR SEISMIC RETROFIT. SEE SHEET NOTE #1.
  - FOR DUCT TRANSMISSION AND BRANCH TAKE-OFFS SEE DETAILS 2 & 3/1950.



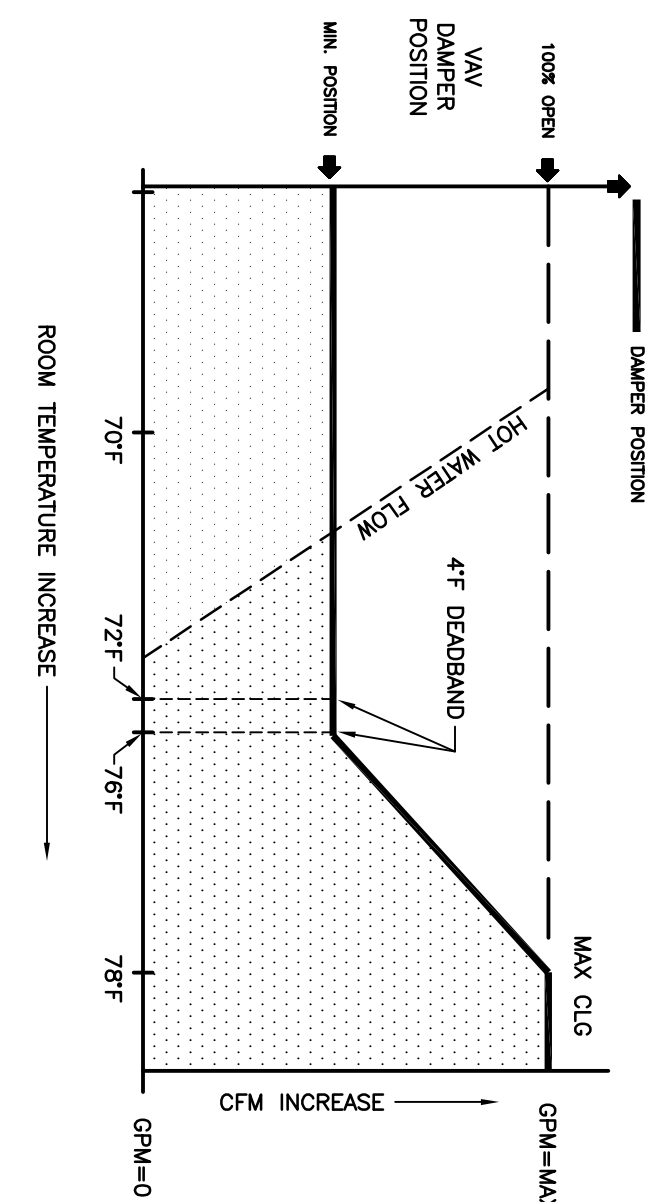
HVAC NEW PLAN - THIRD FLOOR  
SCALE : 1/8" = 1'-0"

1  
M157



|  |                 |         |
|--|-----------------|---------|
| Revisions  | OWNERS COMMENTS | Date    |
| 1  | REVISION        | 2/10/06 |
| NOCHT & LEWIS<br>ARCHITECTS<br>800 Q Street, Suite 100<br>Sacramento, CA 95814<br>(916) 323-4000 - www.nochtandlewis.com                 |                 |         |
| Design Consultant<br>CAPITAL ENGINEERING CONSULTANTS, INC.<br>RANCHO CORDOVA, CALIFORNIA<br>52748<br>956077-00<br>956077-00<br>956077-00 |                 |         |
| DATE SIGNED: [Signature]   |                 |         |
| FULLY SPRINKLERED  |                 |         |
| Drawing Title<br>HVAC DEMOLITION AND NEW PLAN<br>PHASE 2 - BUILDING 650 RENOVATION<br>SEISMIC UPGRADE                                    |                 |         |
| Project Title<br>VANCHOS SACRAMENTO MEDICAL CENTER<br>PHASE 2 - BUILDING 650 RENOVATION<br>SEISMIC UPGRADE                               |                 |         |
| Location<br>PETER MCCOY BLVD.<br>MATHER, CALIFORNIA  |                 |         |
| Drawing Number<br>M157<br>Scale AS NOTED   |                 |         |
| Office of Facilities Management<br>Department of Veterans Affairs  |                 |         |





### VAV BOX WITH REHEAT TEMPERATURE CONTROL

NOTES:

1. SEE SCHEDULES AND PLANS FOR QUANTITIES AND LOCATIONS
2. MOUNT PLUMBING RATED VAV CONTROLLER ONTO VAV BOX
3. PROVIDE ISOLATION TRANSFORMER FOR EACH VAV CONTROLLER
4. DIVISION 16 TO PROVIDE IDOV - J-BOX AT EACH VAV BOX
5. PROVIDE 2 OR 3 - WAY VALVE ASSEMBLY AS INDICATED ON THE EQUIPMENT SCHEDULES.















































































| CONTROL LEGEND |  |   |
|----------------|--|---|
| DESIGNATION    | DESCRIPTION                                  | FUNCTION  |
| DM-1           | TWO POSITION SPRING RETURN DAMPER ACTUATOR   | CLOSES WHEN UNIT IS OFF   |
| D-1            | OUTSIDE AIR DAMPER                           | NORMALLY CLOSED   |
| TS-1           | SEPP, V AIR TEMPERATURE SENSOR               | SENSES TEMPERATURE AND INPUTS INTO ACU  |
| TS-2           | SPACE TEMPERATURE SENSOR                     | SENSES TEMPERATURE AND INPUTS INTO ACU  |
| TS-3           | OUTSIDE AIR TEMPERATURE                      | SENSES TEMPERATURE AND INPUTS INTO ACU  |
| V-1            | PROPORTIONAL, 2WAY VALVE W/ PILOT POSITIONER | CONTROLS FLOW OF HOT WATER TO HEATING COIL IN RESPONSE TO ACU SIZE FOR YAX, 3 PSI PRESS, DROP                                 |
| V-2            | PROPORTIONAL, 2WAY VALVE W/ PILOT POSITIONER | CONTROLS FLOW OF CHILLED WATER TO COOLING COIL IN RESPONSE TO ACU SIZE FOR YAX, 3 PSI PRESS, DROP                             |
| V-3            | PROPORTIONAL, 2WAY VALVE W/ PILOT POSITIONER | CONTROLS FLOW OF CHILLED WATER TO REHEAT COIL IN RESPONSE TO ACU SIZE FOR YAX, 3 PSI PRESS, DROP                              |
| PS-1           | DUCT STATIC PRESSURE HI LIMIT SWITCH         | CLOSES ON HIGH DUCT STATIC PRESSURE INPUT TO ACU  |
| PS-2           | SEPP, V DUCT STATIC PRESSURE                 | SENSES DUCT PRESSURE TO MAINTAIN CONST. VOLUME WITH FILTER LOADING  |
| CP             | CONTROL POWER                                | PROVIDE TRANSFORMERS AS REQUIRED, ALL WORK IN DIV. B, SOURCE POWER SHALL BE FROM LIFE SAFETY BRANCH.                          |
| CS             | ADJUSTABLE CURRENT SWITCH                    | PROVES FAN OPERATION WHEN MOTOR ELECTRIC CURRENT EXCEEDS SWITCH SETTING   |
| DDC            | DIRECT DIGITAL CONTROL                       |   |
| AG             | DIFFERENTIAL PRESSURE INDICATING GAUGE       | INDICATES VELOCITY OR DIFFERENTIAL PRESSURE. PROVIDE RANGE TO SUIT INPUT CONDITIONS.  |
| AP             | DIFFERENTIAL PRESSURE TRANSMITTER            | TRANSMITS DIFFERENTIAL PRESSURE TO GCM  |
| ECC            | ENERGY CONTROL CENTER                        | FOR MONITORING OF SYSTEM OPERATIONS   |
| FI             | FREEZE PROTECTION THERMOSTAT                 | SHUTS DOWN AHU VALVE, LCH AND LCH SENS. SIGNAL TO "ECC" IF SENSED TEMPERATURE FALLS BELOW 38".                                |
| GCM            | GLOBAL CONTROL MODULE                        | CENTRAL INFORMATION CONTROLLER TO ACUS  |
| LAN            | LOCAL AREA NETWORK                           | AND CHILLER TRANSLATOR  |
| ACU            | AUXILIARY CONTROL UNIT                       | CONTROL FOR AIR HANDLING UNITS, ETC   |
| LED            | LIGHT EMITTING DIODE                         |   |
| MS             | MOTOR STARTER                                | CONTROLS SINGLE SPEED FAN OPERATION   |
| PSI            | PERSONAL SYSTEM INTERFACE                    | CENTRAL INFORMATION CONTROL LRP   |
| SD             | DUCT SMOKE DETECTORS (2) AIA, CONTACTS       | SEQUENCE OF OPERATION PROVIDES INTERFACE WITH "ECC" SHALL SHUT DOWN AHU VALVE, LCH SENS. SIGNAL TO "ECC" IF SMOKE IS DETECTED |
| TCP            | TEMPERATURE CONTROL PANEL                    |   |
| VVC            | VAV CONTROLLER                               | CONTROLS FAN SPEED IN RESPONSE TO LCH   |


























































| CONTROL LEGEND |  |   |
|----------------|--|---|
| DESIGNATION    | DESCRIPTION                                  | FUNCTION  |
| DM-1           | TWO POSITION SPRING RETURN DAMPER ACTUATOR   | CLOSES WHEN UNIT IS OFF   |
| D-1            | OUTSIDE AIR DAMPER                           | NORMALLY CLOSED   |
| TS-1           | SEPP, V AIR TEMPERATURE SENSOR               | SENSES TEMPERATURE AND INPUTS INTO ACU  |
| TS-2           | SPACE TEMPERATURE SENSOR                     | SENSES TEMPERATURE AND INPUTS INTO ACU  |
| TS-3           | OUTSIDE AIR TEMPERATURE                      | SENSES TEMPERATURE AND INPUTS INTO ACU  |
| V-1            | PROPORTIONAL, 2WAY VALVE W/ PILOT POSITIONER | CONTROLS FLOW OF HOT WATER TO HEATING COIL IN RESPONSE TO ACU SIZE FOR YAX, 3 PSI PRESS, DROP                                 |
| V-2            | PROPORTIONAL, 2WAY VALVE W/ PILOT POSITIONER | CONTROLS FLOW OF CHILLED WATER TO COOLING COIL IN RESPONSE TO ACU SIZE FOR YAX, 3 PSI PRESS, DROP                             |
| V-3            | PROPORTIONAL, 2WAY VALVE W/ PILOT POSITIONER | CONTROLS FLOW OF CHILLED WATER TO REHEAT COIL IN RESPONSE TO ACU SIZE FOR YAX, 3 PSI PRESS, DROP                              |
| PS-1           | DUCT STATIC PRESSURE HI LIMIT SWITCH         | CLOSES ON HIGH DUCT STATIC PRESSURE INPUT TO ACU  |
| PS-2           | SEPP, V DUCT STATIC PRESSURE                 | SENSES DUCT PRESSURE TO MAINTAIN CONST. VOLUME WITH FILTER LOADING  |
| CP             | CONTROL POWER                                | PROVIDE TRANSFORMERS AS REQUIRED, ALL WORK IN DIV. B, SOURCE POWER SHALL BE FROM LIFE SAFETY BRANCH.                          |
| CS             | ADJUSTABLE CURRENT SWITCH                    | PROVES FAN OPERATION WHEN MOTOR ELECTRIC CURRENT EXCEEDS SWITCH SETTING   |
| DDC            | DIRECT DIGITAL CONTROL                       |   |
| AG             | DIFFERENTIAL PRESSURE INDICATING GAUGE       | INDICATES VELOCITY OR DIFFERENTIAL PRESSURE. PROVIDE RANGE TO SUIT INPUT CONDITIONS.  |
| AP             | DIFFERENTIAL PRESSURE TRANSMITTER            | TRANSMITS DIFFERENTIAL PRESSURE TO GCM  |
| ECC            | ENERGY CONTROL CENTER                        | FOR MONITORING OF SYSTEM OPERATIONS   |
| FI             | FREEZE PROTECTION THERMOSTAT                 | SHUTS DOWN AHU VALVE, LCH AND LCH SENS. SIGNAL TO "ECC" IF SENSED TEMPERATURE FALLS BELOW 38".                                |
| GCM            | GLOBAL CONTROL MODULE                        | CENTRAL INFORMATION CONTROLLER TO ACUS  |
| LAN            | LOCAL AREA NETWORK                           | AND CHILLER TRANSLATOR  |
| ACU            | AUXILIARY CONTROL UNIT                       | CONTROL FOR AIR HANDLING UNITS, ETC   |
| LED            | LIGHT EMITTING DIODE                         |   |
| MS             | MOTOR STARTER                                | CONTROLS SINGLE SPEED FAN OPERATION   |
| PSI            | PERSONAL SYSTEM INTERFACE                    | CENTRAL INFORMATION CONTROL LRP   |
| SD             | DUCT SMOKE DETECTORS (2) AIA, CONTACTS       | SEQUENCE OF OPERATION PROVIDES INTERFACE WITH "ECC" SHALL SHUT DOWN AHU VALVE, LCH SENS. SIGNAL TO "ECC" IF SMOKE IS DETECTED |
| TCP            | TEMPERATURE CONTROL PANEL                    |   |
| VVC            | VAV CONTROLLER                               | CONTROLS FAN SPEED IN RESPONSE TO LCH   |



**CAPITAL ENGINEERING  
CONSULTANTS, INC.**  
RANCHO CORDOVA, CALIFORNIA

BZ/AN  
DESIGN/CHARTER  
0603627.00  
PROJECT NO.




| PLUMBING LEGEND   |                 |  |  |
|---|-----------------|--|--|
| SYMBOL  | ABBREVIATION    | DESCRIPTION  |  |
|  | ASC             | ABOVE CEILING  |  |
|  | AF              | ABOVE FINISHED FLOOR                                     |  |
|  | AF-BF           | ABOVE FINISHED GRADE                                     |  |
|  | AD, AP          | ACCESS DOOR, ACCESS PANEL                                |  |
|  | AW              | ACID WASTE BELOW FLOOR                                   |  |
|  | AW              | ACID WASTE ABOVE FLOOR                                   |  |
|  | AV              | ACID VENT PIPING   |  |
|  | AV              | ANGLE VALVE  |  |
|  | AQ              | AQUEDUCT   |  |
|  | AD              | AREA DRAIN   |  |
|  | BFP, BP, DCV    | BACKFLOW PREVENTER, REDUCED PRESSURE, DOUBLE CHECK VALVE |  |
|  | BV              | BALL VALVE   |  |
|  | BT              | BRANCH - TOP CONNECTION                                  |  |
|  | BT              | BRANCH - BOTTOM CONNECTION                               |  |
|  | BYV             | BUTTERFLY VALVE  |  |
|  | CBV             | CALIBRATED BALANCE VALVE                                 |  |
|  | CP              | CAP ON END OF PIPE                                       |  |
|  | CO <sub>2</sub> | CARBON DIOXIDE   |  |
|  | CB, RD          | CATCH BASIN, ROOF DRAIN                                  |  |
|  | CL              | CENTER LINE  |  |
|  | CG              | CHASSIS GREASE   |  |
|  | CV              | CHECK VALVE  |  |
|  | DWR             | CHILLED DRINKING WATER RETURN                            |  |
|  | DWS             | CHILLED DRINKING WATER SUPPLY                            |  |
|  | CP              | CIRCULATING PUMP   |  |
|  | CW              | COLD WATER   |  |
|  | CWH, WH, VH     | COLD WATER HEADERS, HOT WATER HEADER, VENT HEADER        |  |
|  | A               | COMPRESSED AIR   |  |
|  | XA              | CONCENTRIC REDUCER                                       |  |
|  | CR              | CONDENSATE DRAIN LINE                                    |  |
|  | CM              | CORRUGATED METAL PIPE                                    |  |
|  | CO              | CLEANOUT   |  |
|  | DI              | DEIONIZED WATER  |  |
|  | F               | DEGREASER FARENHEIT                                      |  |
|  | φ, ft           | DIAMETER, SQUARE FEET                                    |  |
|  | DF              | DIESEL FUEL  |  |
|  | DW              | DISTILLED WATER  |  |
|  | DSP             | DRY STAND PIPE   |  |
|  | ER              | ECCENTRIC REDUCER  |  |
|  | (E)             | EXISTING TO BE REMOVED                                   |  |
|  | EJ              | EXPANSION JOINT  |  |
|  | FHC             | FINISHED FLOOR ELEVATION                                 |  |
|   | F               | FIRE HOSE BACK AND CABINET                               |  |
|    | FC              | FIRE PROTECTION WATER SUPPLY                             |  |
|    | FU              | FIXTURE UNIT   |  |
|    | FCO             | FLEXIBLE CONNECTOR                                       |  |
|    | FD              | FLOOR CLEANOUT   |  |
|    | FD              | FLOOR DRAIN  |  |
|    | F3              | FLOOR SINK   |  |
|    | FV              | FLOOR IN DIRECTION OF ARROW                              |  |
|    | F5              | FLOOR LIMITING VALVE                                     |  |
|    | FS              | FLOW SWITCH  |  |
|    | FV, FT          | FLUSH VALVE, FLUSH TANK                                  |  |
|    | (FA), (TA)      | FROM ABOVE, TO ABOVE                                     |  |
|    | (FB), (TB)      | FROM BELOW, TO BELOW                                     |  |
|    | GCK             | GAGE COCK  |  |
|    | GSC, PC         | GAS COCK, PLUG COCK                                      |  |
|    | GA              | GAS VALVE  |  |
|    | G               | GAS - LINE VENT  |  |
|    | MG              | GAS - LOW PRESSURE                                       |  |
|    | MG              | GAS - MEDIUM PRESSURE                                    |  |
|    | MG              | GAS - HIGH PRESSURE                                      |  |
|    | GPR             | GAS PRESSURE REGULATOR VALVE                             |  |
|    | GPR             | GAS PRESSURE REGULATOR                                   |  |
|    | GM              | GAS METER  |  |
|    | GSV             | GAS SEISMIC VALVE  |  |
|    | GV              | GATE VALVE   |  |
|    | GPM             | GALLONS PER MINUTE                                       |  |
|    | GLV             | GLOBE VALVE  |  |
|    | GCO             | GREASE CLEANOUT  |  |
|    | GU              | GREASE WASTE PIPING                                      |  |
|    | HD              | HOPPER DRAIN, HUB DRAIN                                  |  |
|    | HB              | HOSE BIBB  |  |
|    | HU              | HOT WATER PIPING   |  |
|    | HUW             | HOT WATER PIPING WITH HEAT TRACE TAPE                    |  |
|    | HUR             | HOT WATER RETURN   |  |
|    | HWC             | CHILLED DRINKING WATER SUPPLY                            |  |
|    | CWC             | CHILLED DRINKING WATER CIRCULATING                       |  |

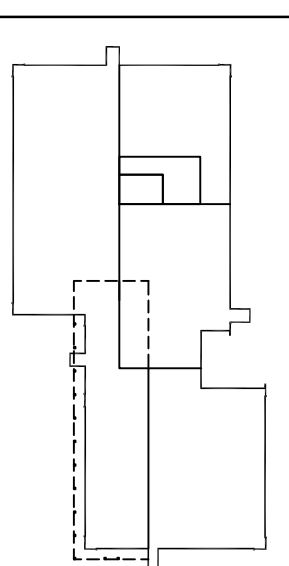
| PLUMBING LEGEND cont'd  |              |  |  |
|---|--------------|--|--|
| SYMBOL  | ABBREVIATION | DESCRIPTION  |  |
|  | (T) HUR      | HOT WATER (TEMP. T1)   |  |
|  | (T) HUR      | HOT WATER RETURN (TEMP. T2)  |  |
|  | IS           | IRRIGATION SUPPLY  |  |
|  | ID           | INDIRECT DRAIN, CONDENSATE DRAIN                                       |  |
|  | LP-G         | LIQUEFIED PETROLEUM GAS  |  |
|  | LO           | LUBRICATING OIL  |  |
|  | LO           | LOW  |  |
|  | (N), (E)     | NEW, EXISTING  |  |
|  | (NTS)        | NOT TO SCALE   |  |
|  | OH           | OVERHEAD   |  |
|  | OF           | OVERFLOW GUTTER/LEADER   |  |
|  | OFD          | OVERFLOW DRAIN   |  |
|  | AN           | PIPE ANCHOR  |  |
|  | PG           | PIPE GUIDE   |  |
|  | PT           | PITCH DOWN IN DIRECTION OF FLOW  |  |
|  | PT           | PLUGGED TEE  |  |
|  | POC          | POINT OF CONNECTION  |  |
|  | PG           | PRESSURE GAUGE   |  |
|  | P & TRV      | PRESSURE & TEMPERATURE RELIEF VALVE PIPING                             |  |
|  | PRV          | PRESSURE REDUCING VALVE  |  |
|  | PD           | PUMP DISCHARGE LINE  |  |
|  | RL           | RAINWATER LEADER   |  |
|  | RB           | RECESSED BOX HOSE BIBB OR WALL HYDRANT                                 |  |
|  | RV or PRV    | RELIEF VALVE OR PRESSURE   |  |
|  | RET          | RETURN   |  |
|  | RE, IE       | RISE ELEVATION, INVERT ELEVATION                                       |  |
|  | (R), (U)     | RISE UP  |  |
|  | (RD), (DB)   | RISE DOWN (TO BOW)   |  |
|  | (RU), (UB)   | RISE UP (TO BOW)   |  |
|  | R/D          | RISE OR DROP   |  |
|  | RD           | ROOF DRAIN   |  |
|  | SA           | SOIL, WASTE OR SANITARY SEWER ABOVE FLOOR                              |  |
|  | SB           | SOIL, WASTE OR SANITARY SEWER BELOW FLOOR                              |  |
|  | SV           | SOLENOID VALVE WITH MOTOR ACTUATOR                                     |  |
|  | SD           | STORM DRAIN  |  |
|  | STR          | STRAINER   |  |
|  | T            | TAPERED WATER SUPPLY   |  |
|  | TH           | THERMOMETER  |  |
|  | TP           | THREE WAY CONTROL VALVE  |  |
|  | TP           | TRAP PRIMER  |  |
|  | TP           | TWO WAY CONTROL VALVE  |  |
|  | TP           | TYPICAL  |  |
|   | UN           | UNION OR FLANGE  |  |
|    | UD           | UNDER DRAIN  |  |
|    | AV           | VALVE IN RISER (TYPE AS INDICATED OR NOTED)                            |  |
|    | VB           | VALVE IN VALVE BOX (VALVE TYPE SYMBOL AS REQUIRED FOR VALVE TYPE USED) |  |
|    | V            | VENT PIPING  |  |
|    | V            | VENT, VENT RISER, VENT THRU ROOF                                       |  |
|    | VCP          | VERIFIED CLAY PIPE   |  |
|    | WC           | WALL CLEANOUT  |  |
|    | WHA          | WATER HAMMER ARRESTER  |  |
|    | WM           | WATER METER  |  |
|    | WO           | WASTE OIL  |  |
|    | WSP          | WET STAND PIPE   |  |
|    | PIV          | POST INDICATOR VALVE   |  |
|    | FH           | FIRE HYDRANT   |  |
|    | FDC          | FIRE DEPARTMENT CONNECTION   |  |

NOTE: NOT ALL SYMBOLS ARE USED

| PLUMBING DRAWING INDEX |  |
|------------------------|--|
| DRAWING NO.            | DRAWING DESCRIPTION                      |
| P001                   | PLUMBING LEGEND & NOTES                  |
| P155                   | PLUMBING AREA 1 FLOOR PLAN               |
| P156                   | PLUMBING DEMO & NEW PLANS - SECOND FLOOR |
| P157                   | PLUMBING DEMO & NEW PLANS - THIRD FLOOR  |

| PLUMBING GENERAL NOTES   |  |
|--|--|
| (APPLY TO ALL PLUMBING)  |  |
| 1. INFORMATION RELATIVE TO EXISTING EQUIPMENT, PIPING AND SYSTEMS INDICATED ON DRAWINGS IS BASED ON RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ADJUST NEW WORK TO SUIT EXISTING CONDITIONS. SEE SHEETS P504 - P506 FOR ADDITIONAL INFORMATION RELATIVE TO (E) CONDITIONS.  |  |
| 2. THE DRAWINGS SHALL BE CONSIDERED DIAGNOSTIC ONLY AND ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTING OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE PLUMBING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS AND LOCATIONS OF THE PLUMBING. LOCATIONS NECESSARY TO SECURE BESS CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED. |  |
| 3. CLOSELY COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO BEGINNING OR INSTALLATION OF NEW. DETERMINE SIZE AND LOCATIONS OF ALL PENETRATIONS THROUGH (E) FOUNDATIONS, (E) OR IN WALLS OR (E) ROOFS PRIOR TO FABRICATION OF ANY SYSTEMS OR ORDERING MATERIALS AFFECTED BY POSSIBLE COORDINATION CONFLICTS.  |  |
| 4. CONCRETE ANCHORS SHALL BE 1/2" DIA. BOLT III 1/2" W/3/4" MIN. EMBEDMENT UNLESS OTHERWISE NOTED. ANCHORS SHALL BE TESTED PER 16-1 INTERPRETIVE REGULATION FOR EXPANSION ANCHORS IN HARDENED CONCRETE.  |  |
| 5. CONCRETE SHALL BE SUPPORTED AND BRACED IN ACCORDANCE TO SHAKMA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEMS".   |  |
| 6. OBTAIN RECORD DRAWINGS OF THE EXISTING CONSTRUCTION FROM THE OWNER FOR INFORMATION ON EXISTING CONDITIONS.  |  |
| 7. PENETRATION OF PIPES, CONDUNITIS, ETC. IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.   |  |
| 8. ALL NEW SANITARY WASTE PIPING SHOWN SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED ON PLANS. WHERE SLOPES LESS THAN 1/4" PER FOOT ARE INDICATED CONTRACTOR SHALL SLOPE PIPING (AS INDICATED) BETWEEN UPPER TERMINAL OF PIPE AND THE POINT OF CONNECTION TO THE SITE. THE PIPING BE SLOPED LESS THAN THE MINIMUM INDICATED.   |  |
| 9. ALL INVERT ELEVATIONS, FINISHED FLOOR ELEVATIONS, ETC. ARE FROM EXISTING AS-BUILT RECORD DRAWINGS.  |  |
| 10. FOR PIPES PASSING THROUGH UNDER OR PARALLEL TO (E) BUILDING FOOTINGS, RETAINING WALLS ETC., REFER TO STRUCTURAL PLANS AND STRUCTURAL AS-BUILT DRAWINGS.  |  |
| 11. CONTRACTOR SHALL FIELD VERIFY ALL POINTS OF CONNECTION TO SITE PIPING (LOCATIONS AND INVERT) PRIOR TO COMMENCING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS AND LOCATIONS OF THE PLUMBING. ENGINEERS IMMEDIATELY IF POINTS OF CONNECTION OR INVERTS ARE DIFFERENT THAN REPRESENTED ON THE DRAWINGS.  |  |
| 12. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED.  |  |
| 13. REMOVE (E) NON-HAZARDOUS INSULATION FROM ALL PIPING. (E) ASBESTOS INSULATION SHALL BE REMOVED AS PART OF THE HAZ-YAT WORK. SEE ARCHITECTURAL DRAWINGS, RE-INSULATE ALL (E) PIPING PER SPECS.   |  |

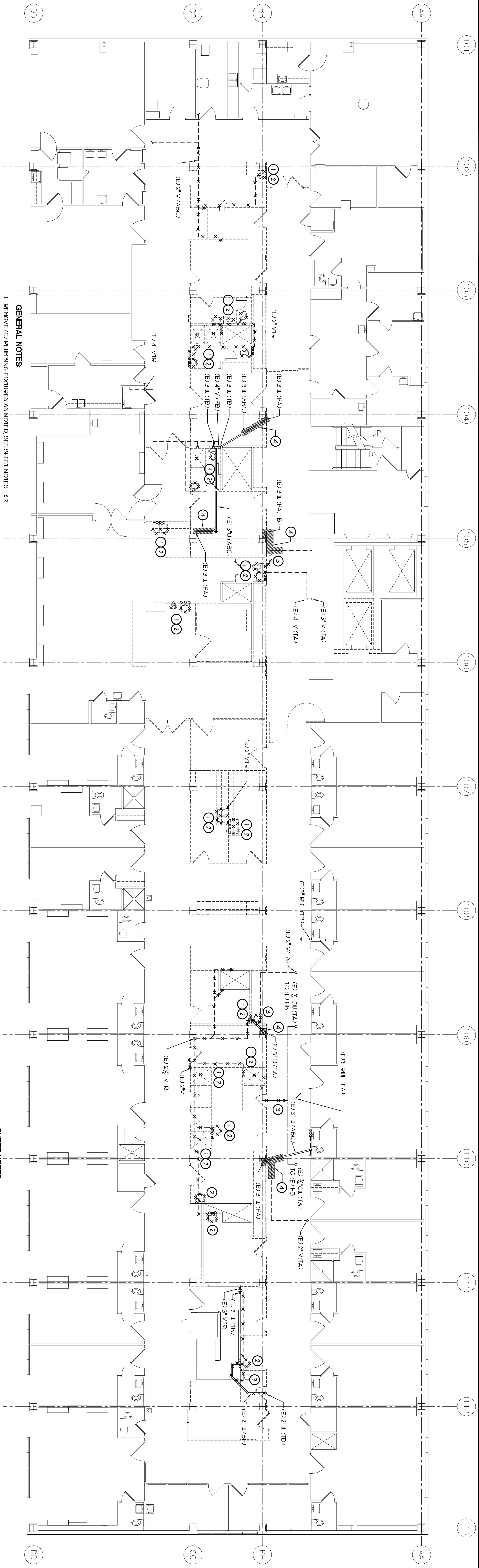
|   |                  |         |
|---|------------------|---------|
| Revisions   | OWNER'S COMMENTS | Date    |
|  | REVISION         | 2/01/06 |
|  | RECORD DRAWINGS  | 4/14/06 |
|  |                  | 7/1/08  |

|  |                   |  |  |  |  |  |  |  |
|--|-------------------|--|--|--|--|--|--|--|
| <div><div>N L A</div><div>n o c h t &amp; l e w i s</div><div>A R C H I T E C T S</div><div>600 Q Street, Suite 100</div><div>Sacramento, CA 95814</div><div>(916) 323-4000 - <a href="http://www.nlaarch.com">www.nlaarch.com</a></div></div> | Design Consultant | <div><div>CAPITAL ENGINEERING CONSULTANTS, INC.</div><div>Rancho Corcora, California</div><div>95827-0000</div><div>916.323.4000</div></div> |  |  | <div>Region</div> <div></div> <div>FULLY SPRINKLERED</div> | <div>Drawing Title</div> <div>HAZ-AR DRAING INDEX ABBREVIATIONS, SYMBOLS &amp; GENERAL NOTES</div> <div>Scale</div> <div>MILIAN SRSKIC</div> | <div>Project Title</div> <div>VANANCHS SACRAMENTO MEDICAL CENTER PHASE 2 - BUILDING 650 RENOVATION SEISMIC UPGRADE</div> <div>Location</div> <div>PETER MCCOYEN BLVD MATHER, CALIFORNIA</div> <div>Date</div> <div>2/01/06</div> <div>Checked</div> <div>AC</div> <div>Drawn</div> | <div>Project Number</div> <div>612-101D</div> <div>Building Name</div> |
|--|-------------------|--|--|--|--|--|--|--|







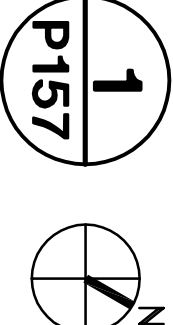


GENERAL NOTES:

1. REMOVE (E) PLUMBING FIXTURES AS NOTED. SEE SHEET NOTES 1 & 2.
2. CONTRACTOR SHALL EXERCISE CARE TO AVOID DAMAGE TO (E) PIPING TO REMAIN WHILE REMOVING (E) PLUMBING AS SHOWN. PROTECT (E) CHASE STRUCTURAL FRAMING AND (E) WALL FINISHES.
3. UPON THE COMPLETION OF DEMOLITION WORK - THE CONTRACTOR IN CONJUNCTION WITH THE INSPECTOR OF RECORD (IOR) SHALL:
  - A. INSPECT (E) PIPING FOR DAMAGE IN AREAS OF DEMO WORK.
  - B. THOROUGHLY FLUSH (E) PIPING AND PRESSURE TEST FOR LEAKS (E) PIPING ASSOCIATED WITH THE DEMO WORK.
  - C. REMOVE AND SEAL (E) LEAKING PIPING AND JOINTS DAMAGED DURING THE DEMOLITION.
2. HATCHED AREAS DENOTE TEMPORARY REMOVAL OF PIPING SYSTEMS FOR SEISMIC REPAIRS; SEE SHEET NOTE 14.

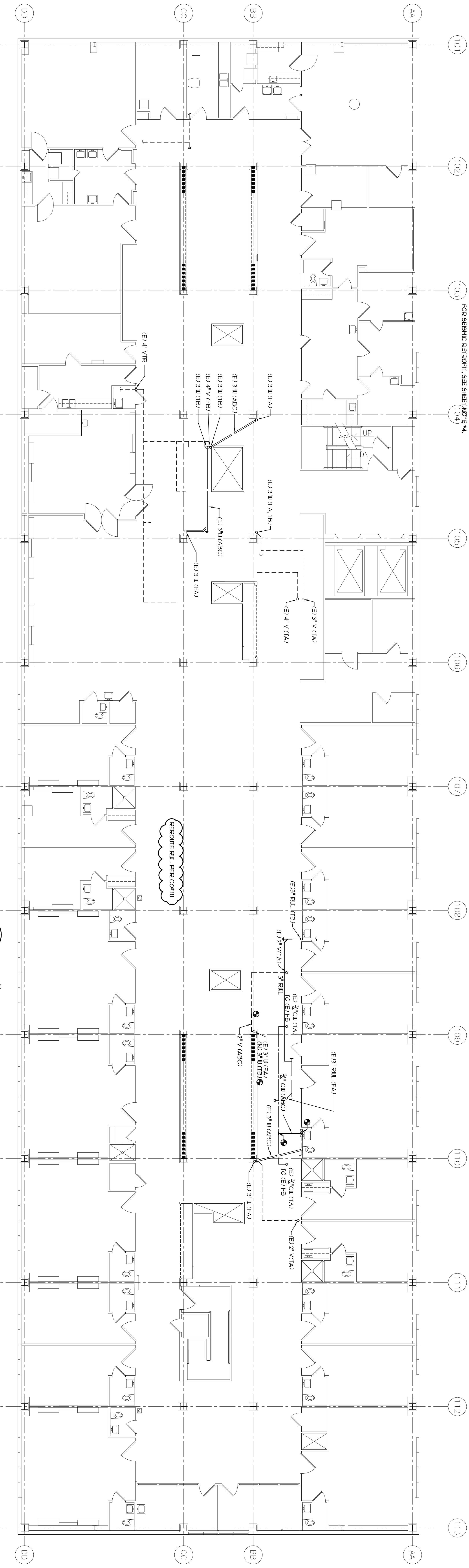
PLUMBING DEMOLITION PLAN - THIRD FLOOR

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



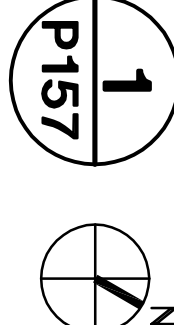
SHEET NOTES:

- ① REMOVE (E) PLUMBING LINE ABOVE FLOOR. CUT (E) LINE FLUSH WITH (E) CONCRETE FLOOR SLAB. REMOVE LINE BELOW FLOOR. FILL AND PATCH FLOOR FILL (E) PLUMBING LINE WITH CONCRETE FLUSH WITH (E) CONCRETE FLOOR SLAB.
- ② REMOVE (E) PLUMBING FIXTURE AND (E) PLUMBING PIPING WITHIN THE (E) WALL OR (E) CHASE ASSOCIATED WITH THE (E) PLUMBING FIXTURE. SEE SHEET NOTE 1 ABOVE FOR (E) CAP (E) PLUMBING PIPING ABOVE CEILING UNLESS OTHERWISE NOTED.
- ③ CAP (E) PLUMBING PIPE AS SHOWN
- ④ PIPING (E) PIPING WHERE INDICATED AS NECESSARY FOR SEISMIC WORK. RE-INSTALL (E) PIPING AFTER COMPLETION OF SEISMIC WORK.



PLUMBING NEW PLAN - THIRD FLOOR

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



|           |                 |                    |   |  |  |
|-----------|-----------------|--------------------|---|--|--|
| Revisions | OWNERS COMMENTS | Date               | Design Consultant   | Project Title  | Project Number   |
| REVISION  |                 | 2/01/06<br>4/14/06 | <b>CAPITAL ENGINEERING CONSULTANTS, INC.</b><br>Rancho Conejo, California<br>92027-00<br>(916) 323-4000 - www.capeng.com    | <b>PHASE 2 - BUILDING 650 RENOVATION SEISMIC UPGRADE</b> | <b>612-101D</b>  |
|           |                 |                    | <b>NOCHT &amp; LEWIS</b><br>ARCHITECTS<br>600 Q Street, Suite 100<br>Sacramento, CA 95814<br>(916) 323-4000 - www.nocht.com | <b>PETER MCCOY BLVD.</b><br>MATHER, CALIFORNIA           | <b>Building Name</b><br><b>650</b>                                       |
|           |                 |                    | <b>REGISTERED PROFESSIONAL ENGINEER</b><br>STATE OF CALIFORNIA<br>No. 22783<br>Expires 9/20/07                              | <b>Approved</b><br>MILAN SRINIC                          | <b>Drawing Number</b><br><b>P157</b>                                     |
|           |                 |                    | DATE SIGNED: _____  | <b>Scale AS NOTED</b>                                    | <b>Office of Facilities Management</b><br>Department of Veterans Affairs |