DEPARTMENT OF VETERANS AFFAIRS

VA LONG BEACH HEALTHCARE SYSTEM

5901 - EAST SEVENTH STREET

LONG BEACH, CALIFORNIA 90822

PROJECT # 600-13-101

BUILDING 126/150 UPGRADE HOT WATER SUPPLY AND HOT WATER RETURN SYSTEMS

SITE PLAN (NOT TO SCALE)

SYMBOLS / LEGEND

PHOTO IDENTIFIER

NORTH IDENTIFIER

DETAIL PLAN IDENTIFIER

SHEET NUMBER ON WHICH DET. IS DRAWN

SECTION IDENTIFIER

SHEET NUMBER ON WHICH SECT. IS DRAWN

GRID LINES

KEYNOTE

ROOM NAME

ROOM NUMBER

(N) ACOUSTIC TILE PATTERN

CEILING LIGHTS

RETURN DIFFUSER

SUPPLY DIFFUSER

(N) WALLS

(E) WALLS

(D) WALLS

(D) ONE SIDE OF (E) WALL, REMOVE FINISH & GYP. BOARD & PREPARE AREA FOR (N) WORK, RECONFIGURE STUD WALL AS REQ'D

(D) CURBS

TEMP. WALL W/ TEMP. DOOR DURING CONSTRUCTION PHASING. PROVIDE TEMP. WALL W/ 5/8" TYPE 'X' TAPED GYPSUM BD. OVER 20 GA. METAL STUDS @ 24" O.C.

NOTE:

FOR FIRE RATING – AT TEMPORARY WALLS DRAPE 8 MIL POLYETHYLENE SHEETS ON GOVERNMENT OCCUPIED SIDE OF TEMPORARY WALL. TEMPORARY WALL FIRE RATING TO BE IDENTICAL TO WALL IT IS REPLACING/PROTECTING.

SCOPE OF WORK

THE GOAL IS TO UPGRADE THE EXISTING HOT WATER SUPPLY AND HOT WATER RETURN SYSTEMS FOR BUILDINGS 126 & 150 OF THE DEPARTMENT OF VETERANS AFFAIRS LONG BEACH HEALTHCARE SYSTEM IN ACCORDANCE WITH LIFE SAFETY CODE AND STANDARDS.

THE WORK INCLUDES THE DEMOLITION AND REPLACEMENT OF THE EXISTING HOT WATER STEAM GENERATOR ASSEMBLIES AND CIRCULATING PUMPS. THE REPLACEMENT SYSTEM WILL INCLUDE A REROUTING OF THE HOT WATER SUPPLY AND HOT WATER RETURN PIPING CONNECTING TO THE CURRENT DISTRIBUTION, REROUTED HOT CIRCULATING SYSTEM COMPLETE WITH EXISTING CIRCUIT SETTER / BALANCING VALVE ASSEMBLIES AND NEW THERMOSTATIC MIXING VALVE COMPLETE WITH HOT WATER ALARM SYSTEM.

CODE REQUIREMENTS

A. THE INTENT OF THE DRAWINGS IS TO UPGRADE THE EXISTING HOT WATER SYSTEMS FOR BUILDINGS 126 & 150 OF THE DEPARTMENT OF VETERANS AFFAIRS LONG BEACH HEALTHCARE SYSTEM IN ACCORDANCE WITH LIFE SAFETY CODE AND STANDARDS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID CONSTRUCTION STANDARDS. A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY VA CONTRACTING OFFICER BEFORE PROCEEDING WITH THE WORK.

B. ALL ADDENDA AND CHANGE ORDERS SHALL BE SIGNED BY THE CONTRACTING OFFICER. RESPONSIBILITIES OF ARCHITECT/ ENGINEER OF RECORD, CONSULTANTS, AND GENERAL CONTRACTOR SHALL BE IN ACCORDANCE WITH VA CONSTRUCTION STANDARDS.

C. NO WORK SHALL COMMENCE AT THE PROJECT SITE BEFORE THE BUILDING PERMIT IS FULLY EXECUTED WITH THE START DATE ENTERED AND SIGNED BY THE CONTRACTING OFFICER. GENERAL CONTRACTOR SHALL MAKE THE PERMIT AVAILABLE FOR POSTING AT JOBSITE.

D. CONSTRUCTION SHALL CONFORM TO VETERAN ADMINISTRATION CONSTRUCTION STANDARDS, GOVERNMENTAL AGENCIES AND CODES HAVING JURISDICTION INCLUDING BUT NOT LIMITED TO:

VA STANDARD TITLE/SECTION

1. MASTER CONSTRUCTION SPECIFICATION INDEX (PG-18-1)
2. VHA PROGRAM GUIDE (PG-18-3) DESIGN AND CONSTRUCTION PROCEDURES)
3. EQUIPMENT GUIDE (PG-18-5)
4. EQUIPMENT REF. MANUAL (PG-18-6)
5. VA HANDBOOK H-18-8, SEISMIC DESIGN REQUIREMENTS
6. VA PLUMBING DESIGN MANUAL
7. VA FIRE PROTECTION MANUAL

REFERENCE CODES

1. 2010 INTERNATIONAL BUILDING CODE (IBC)
2. 2011 NATIONAL ELECTRICAL CODE (NEC)
3. 2010 INTERNATIONAL MECHANICAL CODE (IMC)
4. 2010 INTERNATIONAL PLUMBING CODE (IPC)
5. OSHA – OCCUPATIONAL SAFETY AND HEALTH STANDARDS
6. ASHRAE-62.1 – VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY.
7. ALL NFPA NATIONAL FIRE CODES EXCEPT NFPA 900 AND 5000
8. UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) INCLUDING VA SUPPLEMENT BARRIER FREE DESIGN.

PROJECT DIRECTORY

DEPARTMENT OF VETERANS AFFAIRS

5901 E. 7th Street
Long Beach, CA 90822
Tel: 562.826.800 Ext. 3278
Contact: Syed Ehsan
Email: Syed.Ehsan2@va.gov

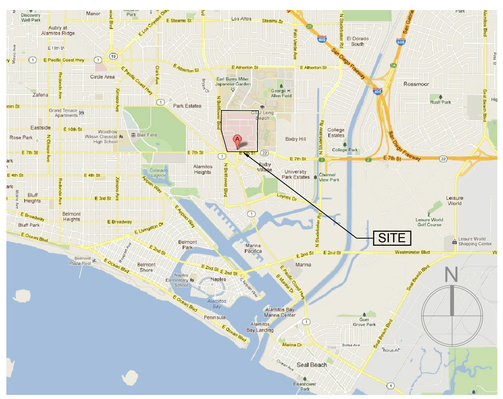
ARCHITECT/ ENGINEERS

Schwab Engineering & Management
1000 E. Walnut Street, Suite 227,
Pasadena, CA 91106
Tel: 888.900.3823
Fax: 626.463.2739
Contact: Himansu Shah
Email: hshah@schwabeng.com

SD SHEET INDEX

DWG. NO.	SHT. NO.	SHEET TITLE
G.1	1 OF 37	TITLESHEET
PLUMBING		
P001	2 OF 37	PLUMBING GENERAL NOTES, ABBREV., SYMBOLS AND SCHEDULES
126 DP100	3 OF 37	BASEMENT FLOOR DEMOLITION PLAN – BUILDING 126
126 DP101	4 OF 37	FIRST FLOOR DEMOLITION PLAN – BUILDING 126
126 DP102	5 OF 37	SECOND FLOOR DEMOLITION PLAN – BUILDING 126
126 DP103	6 OF 37	THIRD FLOOR DEMOLITION PLAN – BUILDING 126
126 DP104	7 OF 37	FOURTH FLOOR DEMOLITION PLAN – BUILDING 126
126 DP105	8 OF 37	FIFTH FLOOR DEMOLITION PLAN – BUILDING 126
126 DP106	9 OF 37	SIXTH FLOOR DEMOLITION PLAN – BUILDING 126
126 DP107	10 OF 37	SEVENTH FLOOR DEMOLITION PLAN – BUILDING 126
126 DP108	11 OF 37	EIGHTH FLOOR DEMOLITION PLAN – BUILDING 126
126 DP109	12 OF 37	NINTH FLOOR DEMOLITION PLAN – BUILDING 126
126 DP110	13 OF 37	TENTH FLOOR DEMOLITION PLAN – BUILDING 126
126 DP111	14 OF 37	ELEVENTH FLOOR DEMOLITION PLAN – BUILDING 126
126 P100	15 OF 37	PLUMBING BASEMENT PLAN – BUILDING 126
126 P101	16 OF 37	PLUMBING FIRST FLOOR PLAN – BUILDING 126
126 P102	17 OF 37	PLUMBING SECOND FLOOR PLAN – BUILDING 126
126 P103	18 OF 37	PLUMBING THIRD FLOOR PLAN – BUILDING 126
126 P104	19 OF 37	PLUMBING FOURTH FLOOR PLAN – BUILDING 126
126 P105	20 OF 37	PLUMBING FIFTH FLOOR PLAN – BUILDING 126
126 P106	21 OF 37	PLUMBING SIXTH FLOOR PLAN – BUILDING 126
126 P107	22 OF 37	PLUMBING SEVENTH FLOOR PLAN – BUILDING 126
126 P108	23 OF 37	PLUMBING EIGHTH FLOOR PLAN – BUILDING 126
126 P109	24 OF 37	PLUMBING NINTH FLOOR PLAN – BUILDING 126
126 P110	25 OF 37	PLUMBING TENTH FLOOR PLAN – BUILDING 126
126 P111	26 OF 37	PLUMBING ELEVENTH FLOOR PLAN – BUILDING 126
150 DP100	27 OF 37	BASEMENT DEMOLITION PLAN – BUILDING 150
150 DP101	28 OF 37	FIRST FLOOR DEMOLITION PLAN – BUILDING 150
150 DP102	29 OF 37	SECOND FLOOR DEMOLITION PLAN – BUILDING 150
150 P100	30 OF 37	PLUMBING BASEMENT PLAN – BUILDING 150
150 P101	31 OF 37	PLUMBING FIRST FLOOR PLAN – BUILDING 150
150 P102	32 OF 37	PLUMBING SECOND FLOOR PLAN – BUILDING 150
P201A	33 OF 37	BLDG 126 DOMESTIC COLD AND HOT WATER RISER DIAGRAM
P201B	34 OF 37	BLDG 126 DOMESTIC COLD AND HOT WATER RISER DIAGRAM
P201C	35 OF 37	BLDG 126 DOMESTIC COLD AND HOT WATER RISER DIAGRAM
P202	36 OF 37	BLDG 150 DOMESTIC COLD AND HOT WATER RISER DIAGRAM
P301	37 OF 37	PLUMBING DETAILS

VICINITY MAP (NOT TO SCALE)



ABBREVIATIONS

ADJ	ADJUSTABLE OR ADJACENT
AF	ABOVE FLOOR
AT	ACOUSTIC TILE
BD	BOARD
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CC	CLEAR COATING
COND	CONDENSATE
CKT	CIRCUIT
CPT	CARPET
SW	COLD WATER
DR	DRAIN
E	EAST
(E)	EXISTING
ELECT	ELECTRICAL
EQUIP	EQUIPMENT
F	FACTORY
FD	FLOOR DRAIN
FLR	FLOOR
GA	GAUGE
GALV	GALVANIZED
GYP	GYPSUM
HM	HOLLOW METAL
HPS	HIGH PRESSURE STEAM
HW	HOT WATER
HR	HOUR
JB	JUNCTION BOX
LBS	POUNDS
LPS	LOW PRESSURE STEAM
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
N	NORTH
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
(N)	NEW
O.C.	ON CENTER
P	PAINT
PE	PROJECT ENGINEER
POC	POINT OF CONNECTION
P.O.D.	POINT OF DISCONNECT
PSI	POUNDS PER SQUARE INCH (GAUGE)
RCB	RUBBER COVE BASE
REQ'D	REQUIRED
RM	ROOM
S	SOUTH
SOV	SHUT-OFF VALVE
STD	STANDARD
STL	STEEL
STM	STEAM
STOR	STORAGE
STRUCT	STRUCTURAL
SW	SOFT WATER
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLTS
VALBHS	VETERANS AFFAIRS LONG BEACH HEALTHCARE SYSTEM
VCT	VINYL COMPOSITE TILE
W	WEST
WD	WOOD
WP	WEATHER PROOF

SEISMIC BRACING NOTES

1. SHOP DRAWINGS OF THE SUPPORT AND BRACING OF PLUMBING SYSTEMS PER THE PRE-APPROVAL SHALL BE SUBMITTED TO THE DISCIPLINE IN RESPONSIBLE CHARGE OF THE PROJECT FOR REVIEW TO VERIFY THAT THE DETAILS ARE IN CONFORMANCE WITH ALL CODE REQUIREMENTS. THE SHOP DRAWINGS SHALL BE IN ACCORDANCE WITH VA SEISMIC DESIGN REQUIREMENTS H-18-88.
   a) THE STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL VERIFY THAT THE SUPPORTING STRUCTURE IS ADEQUATE FOR THE LOADS IMPOSED ON IT BY THE SUPPORTS AND BRACES INSTALLED PER PRE-APPROVAL IN ADDITION TO ALL OTHER LOADS.
   b) THE SEOR WILL FORWARD THE ANCHORAGE AND BRACING PLANS TO THE DISCIPLINE IN RESPONSIBLE CHARGE WITH A NOTATION INDICATING THAT THE PLANS HAVE BEEN REVIEWED AND ARE IN GENERAL CONFORMANCE WITH THE DESIGN INTENT OF THE PROJECT.
   c) A SHOP DRAWING STAMP MAY BE USED TO INDICATE COMPLIANCE WITH THE REQUIREMENT.
2. SHOP DRAWINGS (WITH SHOP DRAWING STAMP) SHALL BE SUBMITTED FOR STRUCTURAL ENGINEER TO REVIEW.
3. APPROVED SHOP DRAWING (WITH THE SEOR'S SHOP DRAWING STAMP) SHALL BE KEPT ON THE JOB SITE AND CAN THEN BE USED FOR INSTALLATION OF THE SUPPORT AND BRACING.
   a) VA CONTRACTING OFFICER WILL REVIEW THE INSTALLATION.
4. A COPY OF CHOSEN BRACING SYSTEMS INSTALLATION GUIDE/MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING THE INSTALLATION OF HANGERS AND/OR BRACES.
5. COMPONENTS OF TWO OR MORE BRACING SYSTEMS SHALL NOT BE MIXED
   a) ONLY ONE BRACING SYSTEM MAY BE USED FOR A RUN OF PIPE, DUCT OR CONDUIT.
   b) ANY SUBSTITUTION OF COMPONENTS OF BRACING SYSTEM SHALL REQUIRE SEOR AND CONTRACTING OFFICER'S REVIEW AND APPROVAL.
6. ALL SUPPORTS AND BRACING SHALL BE PROVIDED WITH ANCHORAGE AND SEISMIC PRE-APPROVAL SYSTEM NUMBERS, SIMILAR TO B-LINE.

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HIMANSU P. SHAH No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

DIRECTOR	DATE	CHIEF OF STAFF	DATE	CHIEF ENGINEER	DATE
ASSOCIATE DIRECTOR	DATE	CHIEF, RESEARCH	DATE	ASSISTANT CHIEF ENGINEER	DATE
ASSOCIATE DIRECTOR PCS/NE	DATE	SECURITY SURVEILLANCE COMMUNITY	DATE	SAFETY MANAGER	DATE

Drawing Title: TITLE SHEET

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126 / 150

Drawing Number: G.1

Dwg. 1 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978

DETAIL TITLE / DRAWING SYMBOLS

XX / XX — EQUIPMENT TOP – ID NUMBER; REFERENCE BOTTOM – SHEET NUMBER

XX / XX — DETAIL TOP – ID NUMBER; REFERENCE BOTTOM – SHEET NUMBER

XX / XX — SECTION TOP – ID NUMBER; REFERENCE BOTTOM – SHEET NUMBER

26-F 3 — BUILDING NUMBER WHERE EQUIPMENT IS LOCATED.
EQUIPMENT ABBREVIATION (PUMP)
PUMP NO. 3 IN BUILDING NO.26
TYPICAL UNIT NO.

DW / # — DOMESTIC WATER RISER NUMBER DESIGNATION

three inches = one foot 6" 1
one and one half inches = one foot 6" 0 1
one inch = one foot 6" 0 2
three quarters inch = one foot 6" 0 2
one half inch = one foot 6" 0 4
three eighths inch = one foot 6" 0 4
one quarter inch = one foot 6" 0 4 8
one eighth inch = one foot 6" 0 4 8 16

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
ABV	ABOVE
ABBREV.	ABBREVIATION
AC	ABOVE CEILING
AFF	ABOVE FINISH FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
AP	ACCESS PANEL
ASHRAE	AMERICAN SOCIETY HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY PLUMBING ENGINEERS
ASSY	ASSEMBLY
BEH	BEHIND
BEL	BELOW
BPW	BEDPAN WASHER
CD	CONDENSATE DRAIN
CLG	CEILING
CO	CLEANOUT
CP	CONTROL PANEL
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DN	DOWN
DWG	DRAWING
EL	ELEVATION
EOR	ENGINEER OF RECORD
EQUIP	EQUIPMENT
EP	EMERGENCY POWER
EX (E)	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FL	FLOOR
FS	FLOOR SINK
FU	FIXTURE UNITS
GAL	GALLON
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
H&CW	HOT AND COLD WATER
HB	HOSE BIBB
HDR	HEADER
ICW	INDUSTRIAL COLD WATER
ICWR	INDUSTRIAL COLD WATER RETURN
INV	INVERT
IPC	INTERNATIONAL PLUMBING CODE
IW	INDIRECT WASTE
MA	MEDICAL AIR
MED	MEDICAL
MV	MEDICAL VACUUM
N	NITROGEN
N2O	NITROUS OXIDE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTC	NOT TO SCALE
O2	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPA	OSHPD PRE-APPROVED
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
PSI	POUNDS PER SQUARE INCH
SAN	SANITARY SEWER
SEOR	STRUCTURAL ENGINEER OF RECORD
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SS	STAINLESS STEEL
S.O.V.	SHUT-OFF VALVE
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TYP	TYPICAL
UG	UNDERGROUND
V	VENT
VAC	VACUUM
VTR	VTR VENT THROUGH ROOF
W	WASTE
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTER

LEGEND

SYMBOL	ABBREV.	DESCRIPTION
		EXISTING FIXTURE OR EQUIPMENT DEMOLITION (REMOVE)
(E)CW		PIPING DEMOLITION (REMOVE)
(E)CW	(E)CW	EXISTING DOMESTIC COLD WATER
(E)HW	(E)HW	EXISTING DOMESTIC HOT WATER
(E)HWR	(E)HWR	EXISTING DOMESTIC HOT WATER RETURN
(E)W	(E)W	EXISTING SANITARY WASTE
(E)V	(E)V	EXISTING SANITARY VENT
(E)D	(E)D	EXISTING DRAIN
(E)F	(E)F	EXISTING FIRE WATER
(E)MV	(E)MV	EXISTING MEDICAL VACUUM
(E)MA	(E)MA	EXISTING MEDICAL AIR
(E)O2	(E)O2	EXISTING OXYGEN
(E)N2O	(E)N2O	EXISTING NITROUS OXIDE
(E)N	(E)N	EXISTING NITROGEN
(N)CW	(N)CW	NEW COLD WATER
	HWR	HOT WATER RETURN
	HW	HOT WATER LINE
	CW	COLD WATER LINE
	V	SANITARY VENT
F	F	FIRE WATER
D	D	NEW CONDENSATE DRAIN
	GV, GLV	GATE OR GLOBE VALVE
	CV	CHECK VALVE
	STR	STRAINER
	BV	BALANCING VALVE
	UN	UNION
	RED.	REDUCER
		DIRECTION OF PIPE PITCH (DOWN)
		DIRECTION OF FLOW
		ANCHOR
		REDUCER OR INCREASER
		ECCENTRIC REDUCER
		TOP CONNECTION, 45° OR 90°
		BOTTOM CONNECTION, 45° OR 90°
		CAPPED OUTLET
		PLUGGED INLET
		RISE OR DROP IN PIPE
		UNION
		PIPE UP
		PIPE DOWN
		POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
		LIMIT OF DEMOLITION
		THERMOMETER
		PRESSURE GAGE
CO		CEILING CLEAN OUT
		HOSE BIB
		EXPANSION LOOP
		PIPE SLEEVE THRU WALL
		FLEXIBLE CONNECTION

SCOPE OF WORK

THE WORK TO BE PERFORMED FOR BUILDINGS 126 AND 150 SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

1. REPLACE EXISTING HEAT EXCHANGER WITH NEW HEAT EXCHANGER OF THE SAME CAPACITY AND RATING AS EXISTING FOR BUILDINGS 126 AND 150.
2. REPLACE EXISTING RE-CIRCULATING PUMPS OF THE SAME CAPACITY AND RATING AS EXISTING FOR BUILDINGS 126 AND 150.
3, REPLACE EXISTING ELECTRONIC MIXING VALVE OF THE SAME CAPACITY AND RATING AS THE EXISTING FOR BUILDINGS 126 AND 150.
4. MODIFY THE EXISTING HOT WATER PIPING SYSTEM AND HOT WATER RE-CIRCULATING PIPING SYSTEM TO PROVIDE A COMPLETE RE-CIRCULATING HOT WATER SYSTEM.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW IN GENERAL WHERE THE PIPING AND OTHER WORK SPECIFIED IS TO BE LOCATED. THE DRAWINGS DO NOT NECESSARILY INDICATE ANY AND ALL OFFSETS AND CONFIGURATIONS REQUIRED FOR COORDINATION WITH THE SPACE REQUIREMENTS OF OTHER TRADES. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION PLACING, LOCATION AND CONNECTION OF THIS WORK IN RELATION TO THE WORK OF OTHER TRADES.

1A. CONTRACTOR VERIFICATION: BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS OF ALL EXISTING PIPING AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. INTERRUPTION OF EXISTING SERVICES. NEW WORK AND INSTALLATIONS SHALL BE MADE WITH MINIMAL INTERRUPTIONS OF EXISTING SERVICES. ANY INTERRUPTIONS REQUIRED SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO THE OWNER. FURNISH ALL LABOR AND MATERIALS REQUIRED TO RELOCATE, REMOVE, REINSTALL, RECONNECT, REPLACE, ETC., ANY EXISTING PIPING TO ACCOMMODATE THE WORK. MATERIALS SHALL BE AS SPECIFIED UNLESS OTHERWISE APPROVED IN WRITING BY THE EOR.

2. PRIOR TO BIDDING, CONTRACTORS SHALL BECOME FAMILIAR WITH ALL PROJECT DOCUMENTS AND SURVEY THE SITE TO BECOME AWARE OF ALL EXISTING CONDITIONS. NO EXTRA COMPENSATION SHALL BE AWARDED FOR THE CONTRACTOR'S FAILURE TO ALLOW FOR ANY EXISTING CONDITIONS THAT EFFECT HIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSIDERED EVIDENCE OF THE FACT THAT THE CONTRACTOR IS FULLY AWARE OF THESE CONDITION AND IS ABLE TO COMPLETE ALL WORK REQUIRED.

3. THE CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL CONFIRM ALL NECESSARY DIMENSIONS, SYSTEM COMPONENT SPACE REQUIREMENTS, AND POINTS OF CONNECTIONS TO ALL EXISTING SYSTEM COMPONENTS, FIXTURES, AND EQUIPMENT.

4. THESE DRAWINGS AND LAYOUTS ARE DIAGRAMMATIC TO SHOW DESIGN INTENT AND INDICATE THE FINISHED REQUIREMENTS FOR THE PLUMBING SYSTEMS. IF NECESSARY, THE CONTRACTOR SHALL MAKE ANY MINOR ADJUSTMENTS TO THE SYSTEM OR ITS APPURTENANCES TO AVOID ANY CONFLICTS WITH BUILDING STRUCTURE OR THE WORK OF OTHER TRADES. IF DUE TO; ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR STRUCTURAL INTERFERENCE, THE RETENTION OF EXISTING FACILITIES, OR FOR OTHER REASONS, THE CONTRACTOR MAY DESIRE TO INSTALL THE WORK IN A MANNER DIFFERENT FORM THAT SHOWN. SUCH CHANGES SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO IMPLEMENTATION.

5. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO ENSURE THAT THE PLUMBING SYSTEMS ARE FULLY COORDINATED WITH ALL OTHER TRADES, VERIFY ALL EXISTING UTILITIES; LOCATION, SIZE, DEPTH, PRESSURE AND AVAILABILITY PRIOR TO STARTING WORK.

6. THE CONTRACTOR SHALL IDENTIFY LOCATIONS OF EXISTING REBAR AT ANY PLUMBING PENETRATIONS THROUGH EXISTING CONCRETE STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL SUBMIT A FULL SET OF PLANS AND ELEVATIONS INDICATING ALL PROPOSED LOCATIONS AND SIZES OF CORE DRILLING OR SAW CUTTING FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER AND ARCHITECT. THE CONTRACTOR SHALL INDICATE ANY CONFLICTS BETWEEN THE PENETRATIONS AND EXISTING REBAR ON THE DRAWINGS. ALL CORING, SAW CUTTING AND DRILLING SHALL BE PATCHED TO MATCH THE SURROUNDING CONDITION OR AS REQUIRED TO SUIT FINISHED CONDITIONS.

7. PENETRATION OF RATED ASSEMBLIES SHALL BE FIRE STOPPED USING AN APPROVED MATERIAL BY UL AND SHALL HAVE AN F OR T RATING AS DETERMINED BY TESTS CONDUCTED IN ACCORDANCE WITH UBC STANDARD 7-5.

8. PROVIDE PIPE SLEEVES FOR ALL PIPING PASSING TROUGH MASONRY OR CONCRETE WALLS. ALL ANNULAR SPACE SHALL BE CAULKED APPROPRIATELY.

9. HANGING, SUPPORT AND SEISMIC BRACING OF PLUMBING PIPING GREATER THAN 12 INCHES FROM THE HANGING SURFACE SHALL COMPLY WITH THE GUIDELINES FOR SEISMIC RESTRAINTS FOR PLUMBING SYSTEMS IN THE LATEST EDITION OF SMACNA. WHERE BRACING AND ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, THE STRUCTURAL ENGINEER, AND THE CITY OF LOS ANGELES FIELD ENGINEER. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY CITY OF LOS ANGELES SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.

10. INDEPENDENTLY ENGINEERED SYSTEMS MAY ALSO BE UTILIZED IF DESIGNED AND STAMPED BY A LICENSED CALIFORNIA STRUCTURAL ENGINEER.

11. THE CONTRACTOR SHALL COORDINATE ALL SHUT DOWN OF THE PLUMBING OR SYSTEMS WITH THE GENERAL CONTRACTOR AND/OR THE BUILDING ENGINEER AT A MINIMUM OF TWO WEEKS IN ADVANCE.

12. WHERE THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND THE PROJECT SPECIFICATIONS OR BUILDING STANDARDS, THE ARCHITECTS SHALL BE NOTIFIED OF THIS DISCREPANCY PRIOR TO PROCEEDING WITH THE WORK.

13. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, AND FEES REQUIRED FOR THE INSTALLATION AND APPROVAL OF THE PLUMBING WORK. THIS WOULD INCLUDING, BUT NOT LIMITED TO; CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY.

14. IF ANY EQUIPMENT OR MATERIAL FOR WHICH THE CONTRACTOR IN PLANNING ON UTILIZING IS DIFFERENT FROM THAT SPECIFIED SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL. THE SUBMITTAL SHALL INDICATE THAT THE SUBMITTED IS A SUBSTITUTION AND THE CREDIT DUE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL OTHER CHANGES RESULTING FROM THE SUBSTITUTION INCLUDING CHANGES IN THE WORK OF OTHER TRADES NECESSARY TO ACCOMMODATE THE REQUESTED SUBSTITUTION.

15. THE CONTRACTOR SHALL PROVIDE A COORDINATED SET OF SHOP DRAWINGS AND PRODUCT DATA ACCORDING TO THE SPECIFICATIONS FOR REVIEW AND APPROVAL PRIOR TO THE STARTING OF WORK AND THE PROCUREMENT OF ANY MATERIALS.

16. THE CONTRACTOR SHALL PROVIDE A COMPLETE AS-BUILT DRAWINGS PRIOR TO COMPLETION OF THE PROJECT FOR REVIEW BY THE ARCHITECT AND/OR ENGINEER.

17. ALL SYMBOLS SHOWN ON THE SYMBOL LIST ARE NOT NECESSARILY USED ON THIS PROJECT.

18. INSULATION AND COVERING ON PIPE AND TUBING SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH UBC STANDARD No 801. ALL PIPING IAND INSULATION SHALL BE CERTIFIED TO THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE/COMMISION.

SCHEDULES

PLUMBING EQUIPMENT SCHEDULE

ITEM	DESCRIPTION		LOCATION	OPERATING WEIGHT (LBS)	DIMENSIONS (LxWxHT)	ELECT.
CP 1	CIRCULATING PUMP:	GRUNDFOS MAGNA #40-120 TYPE N, 1-1/2" FLANGE, STAINLESS STEEL HOUSING, DESIGN THRUSH MODEL #DSV842; OPERATING WEIGHT AT 1600 LBS RATING = 40 GPM @ 30 FT. HEAD	BLDG 150 BASEMENT MECHANICAL ROOM	45	3.75" X 10" X 4.75"	230 V
CP 2	CIRCULATING PUMP:	GRUNDFOS MAGNA #40-120 TYPE N, 1-1/2" FLANGE, STAINLESS STEEL HOUSING, DESIGN THRUSH MODEL #DSV842; OPERATING WEIGHT AT 1600 LBS RATING = 40 GPM @ 30 FT. HEAD	BLDG 126 BASEMENT MECHANICAL ROOM	45	3.75" X 10" X 4.75"	230 V

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	W	TRAP	V	CW	HW	REMARKS
DCF 1	CONDENSATE FUNNEL J.R. SMITH #3821T	2"	2"	1 1/2"	–	–	DUCO CAST IRON WITH ACID RESISTANT COATED INTERIOR AND EXTERIOR, ALUMINUM DOME BOTTOM STRAINER WITH FRONT CLEANOUT.

HEAT EXCHANGER SCHEDULE

UNIT NO.	MANUFACTURER MODEL	LOCATION	SERVICE	TYPE	STEAM TO VALVE PSIG	STEAM OUT OF VALVE PSIG	STEAM LOAD BTU/HR	STEAM REQUIRED LBS/HR	MAX. FLOW GPM	STEAM INLET (INCHES)	WATER INLET (INCHES)	DIMENSIONS (LxWxH)	VOLTS	PHASE/HZ	AMPS	EMERGENCY POWER	SHIPPING WEIGHT (LBS)
HX 1	THRUSH HOTPAK DSV842	BASEMENT BLDG. 150	WATER HEATER	STEAM TO WATER	15	8	3,000,000	3175	60	4"	3"	24"X103"	–	–	–	–	1800
HX 2	THRUSH HOTPAK DSV842	BASEMENT BLDG. 150	WATER HEATER	STEAM TO WATER	15	8	3,000,000	3175	60	4"	3"	24"X103"	–	–	–	–	1800
HX 3	THRUSH HOTPAK DSV1042	BASEMENT BLDG. 126	WATER HEATER	STEAM TO WATER	15	8	4,850,000	5132	97	6"	4"	30"X103"	–	–	–	–	1800
HX 4	THRUSH HOTPAK DSV1042	BASEMENT BLDG. 126	WATER HEATER	STEAM TO WATER	15	8	4,850,000	5132	97	6"	4"	30"X103"	–	–	–	–	1800

A B C D E

100% CONSTRUCTION DOCUMENTS

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER SHANASU P. SHAH No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: PLUMBING GENERAL NOTES, ABBREV., SYMBOLS AND SCHEDULES

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: HS | Drawn: TS

Project Number: 600-13-101

Building Number: 126

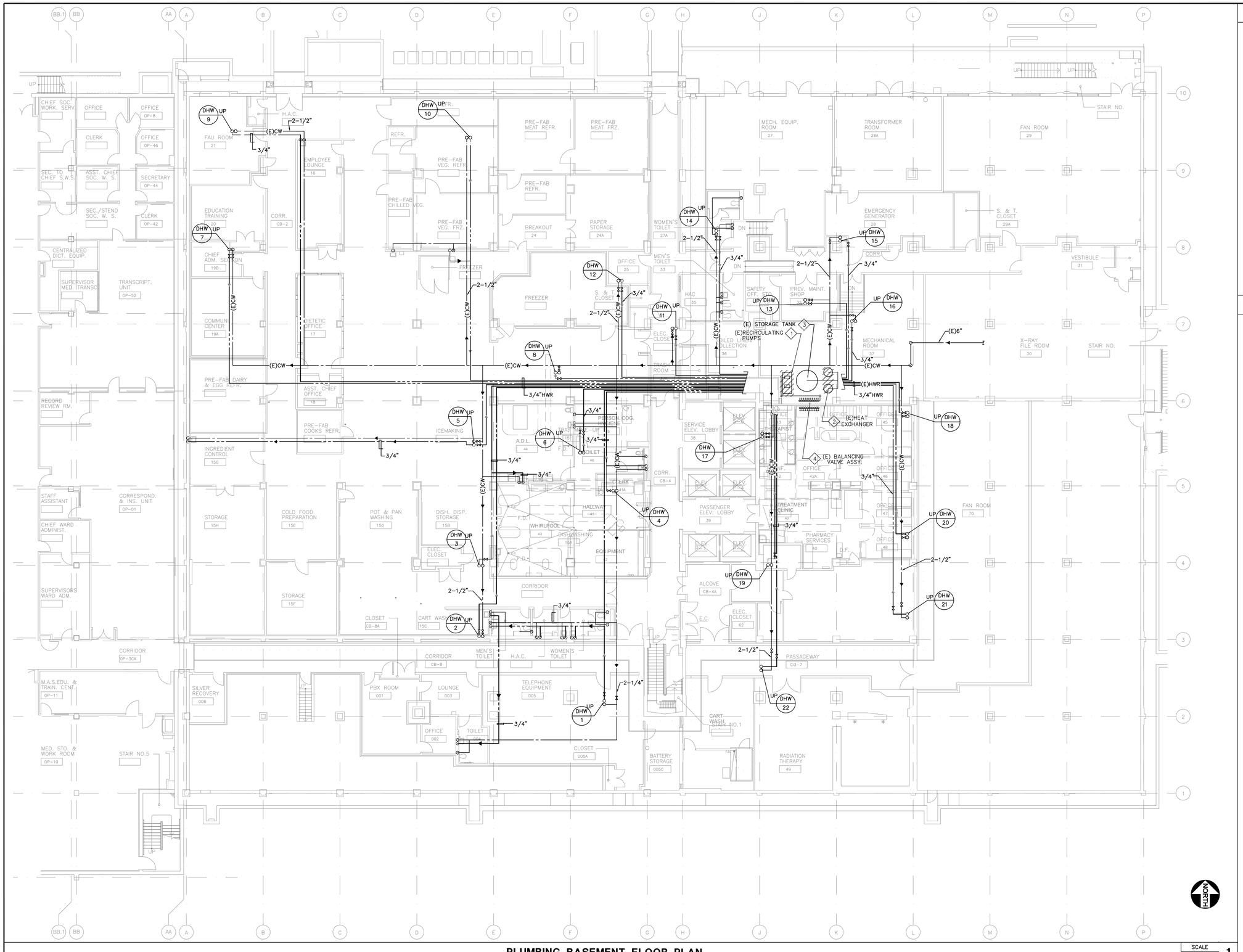
Drawing Number: P001

Dwg. 2 of 37

Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

1. REMOVE (E) RE-CIRCULATING PUMPS. DISCONNECT ALL HWR LINES FOR FUTURE CONNECTION TO NEW RE-CIRCULATING PUMPS.
2. REMOVE (E) HEAT EXCHANGER. DISCONNECT HW & CW LINES FOR FUTURE CONNECTION TO NEW HEAT EXCHANGER.
3. EXISTING STORAGE TANK TO REMAIN.
4. EXISTING BALANCING VALVE ASSEMBLY TO REMAIN.

PLUMBING BASEMENT FLOOR PLAN

SCALE 3/32"=1'-0" 1

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HEMANSU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: BASEMENT FLOOR DEMOLITION PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 DP100

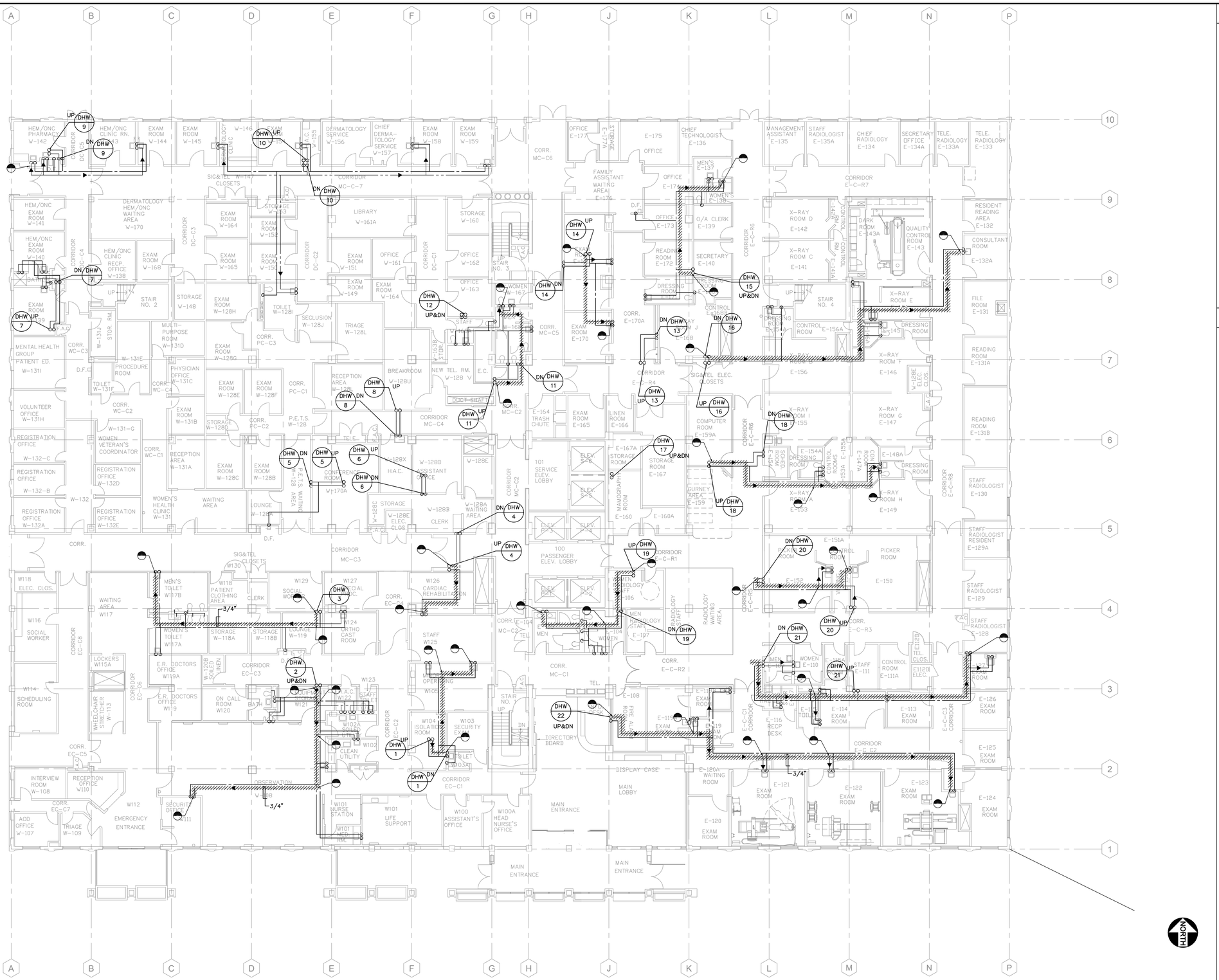
Dwg. 3 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING FIRST FLOOR PLAN

SCALE 3/32"=1'-0" 1

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER ATHANASIU P. SKAF No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

Revisions | Date

Drawing Title: FIRST FLOOR DEMOLITION PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 DP101

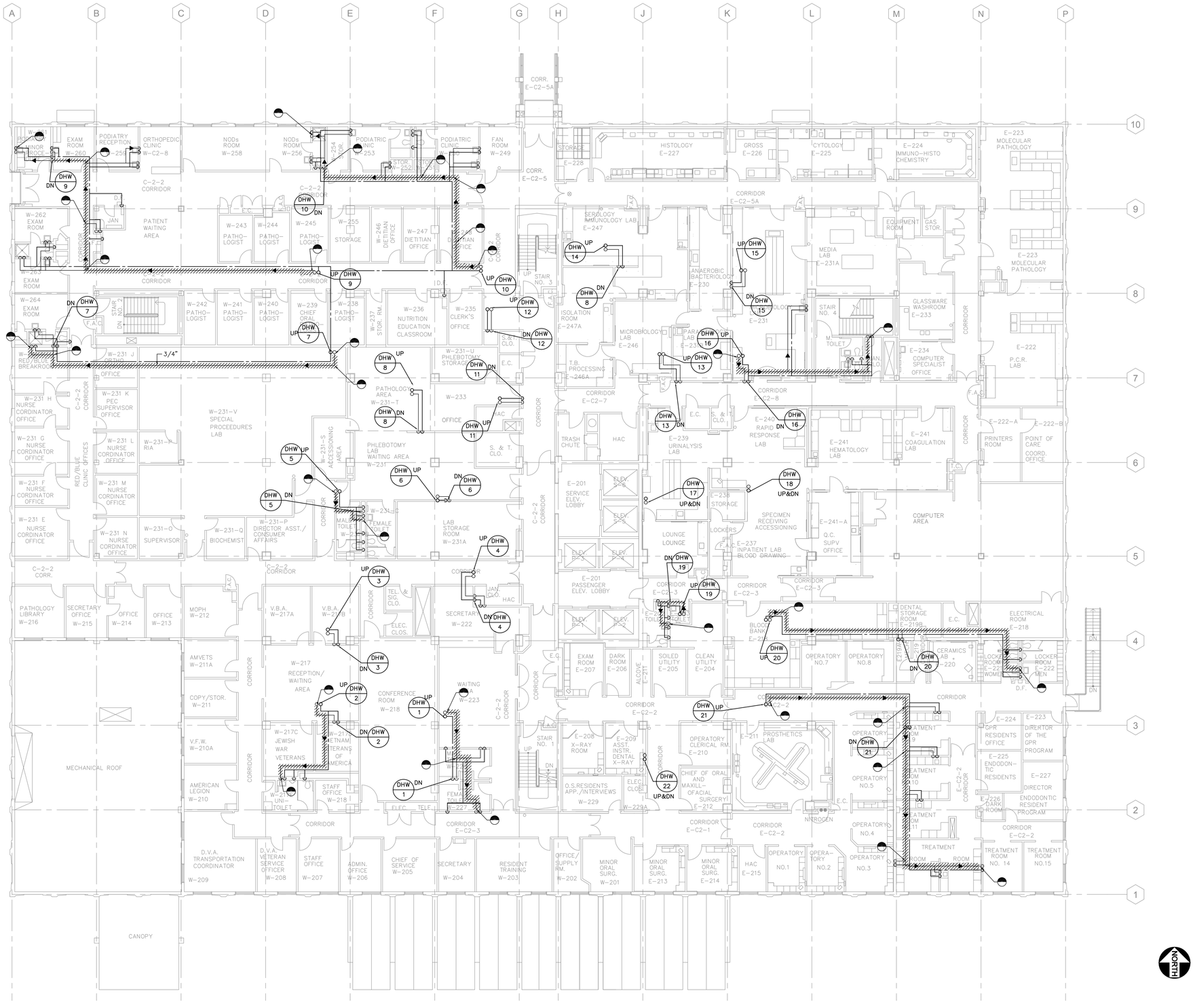
Dwg. 4 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING SECOND FLOOR PLAN

SCALE 3/32"=1'-0"

1

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER MUNGSU P. SHAH No. M25602 Exp. 6/30/14 ELECTRICAL STATE OF CALIFORNIA

Drawing Title: SECOND FLOOR DEMOLITION PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 DP102

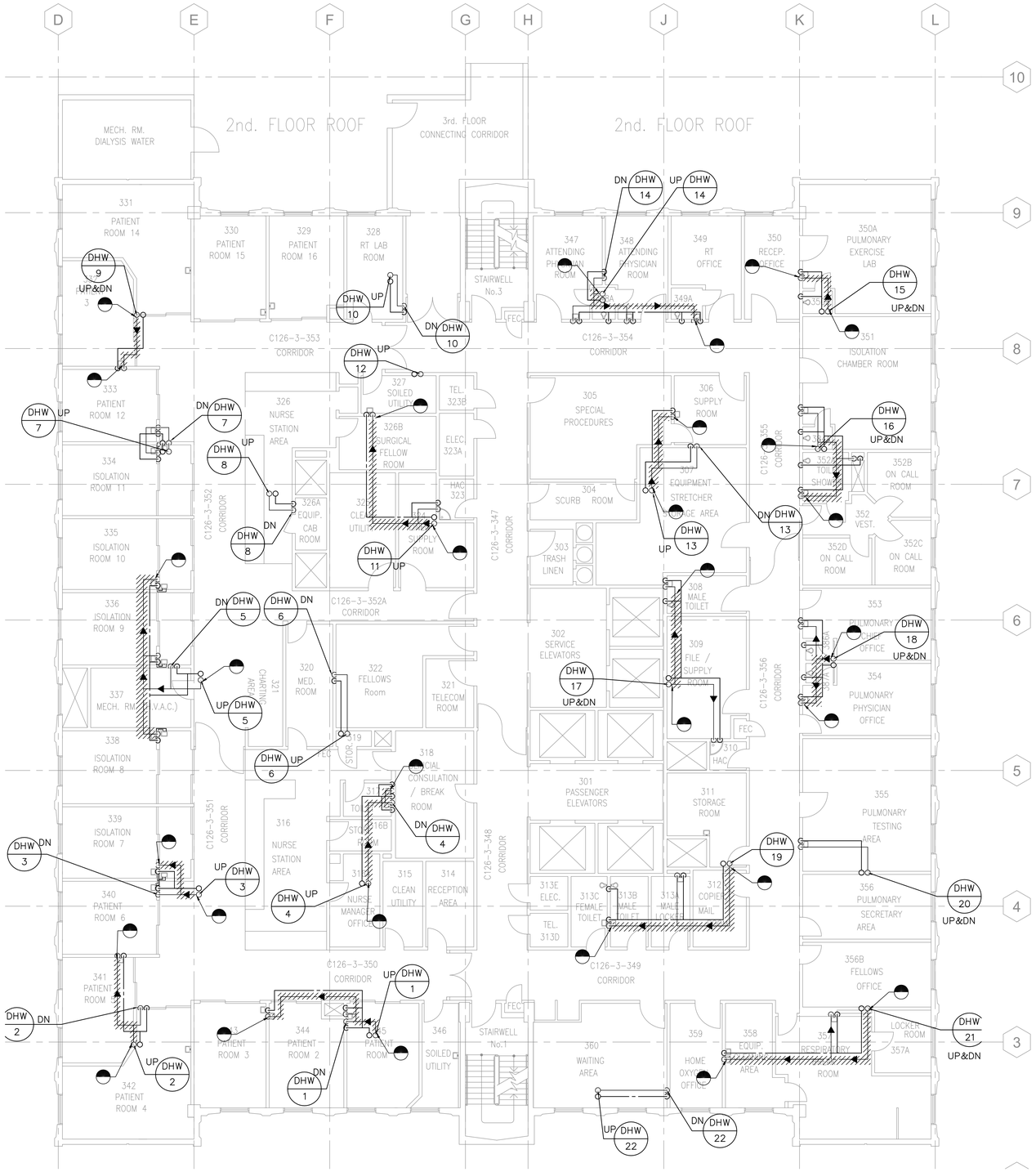
Dwg. 5 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING THIRD FLOOR PLAN

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

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HUMANSU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

Revisions	Date

Drawing Title: THIRD FLOOR DEMOLITION PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date	Checked	Drawn
JUNE 24, 2014	TS	HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 DP103

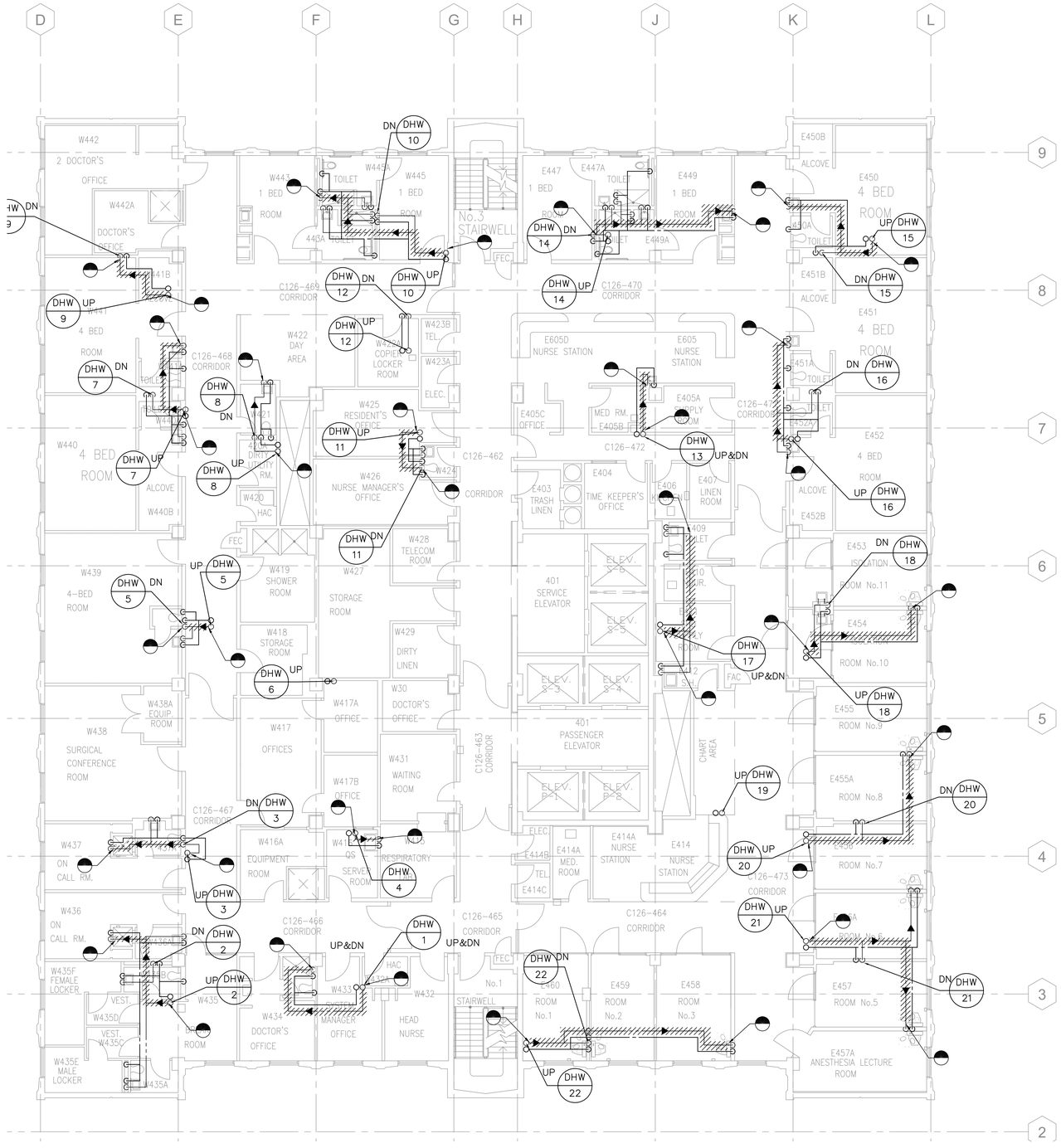
Dwg. 6 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING FOURTH FLOOR PLAN

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

Revisions:	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER TITUS(NU) P. SHAH No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: FOURTH FLOOR DEMOLITION PLAN BUILDING 126

Approved: Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 DP104

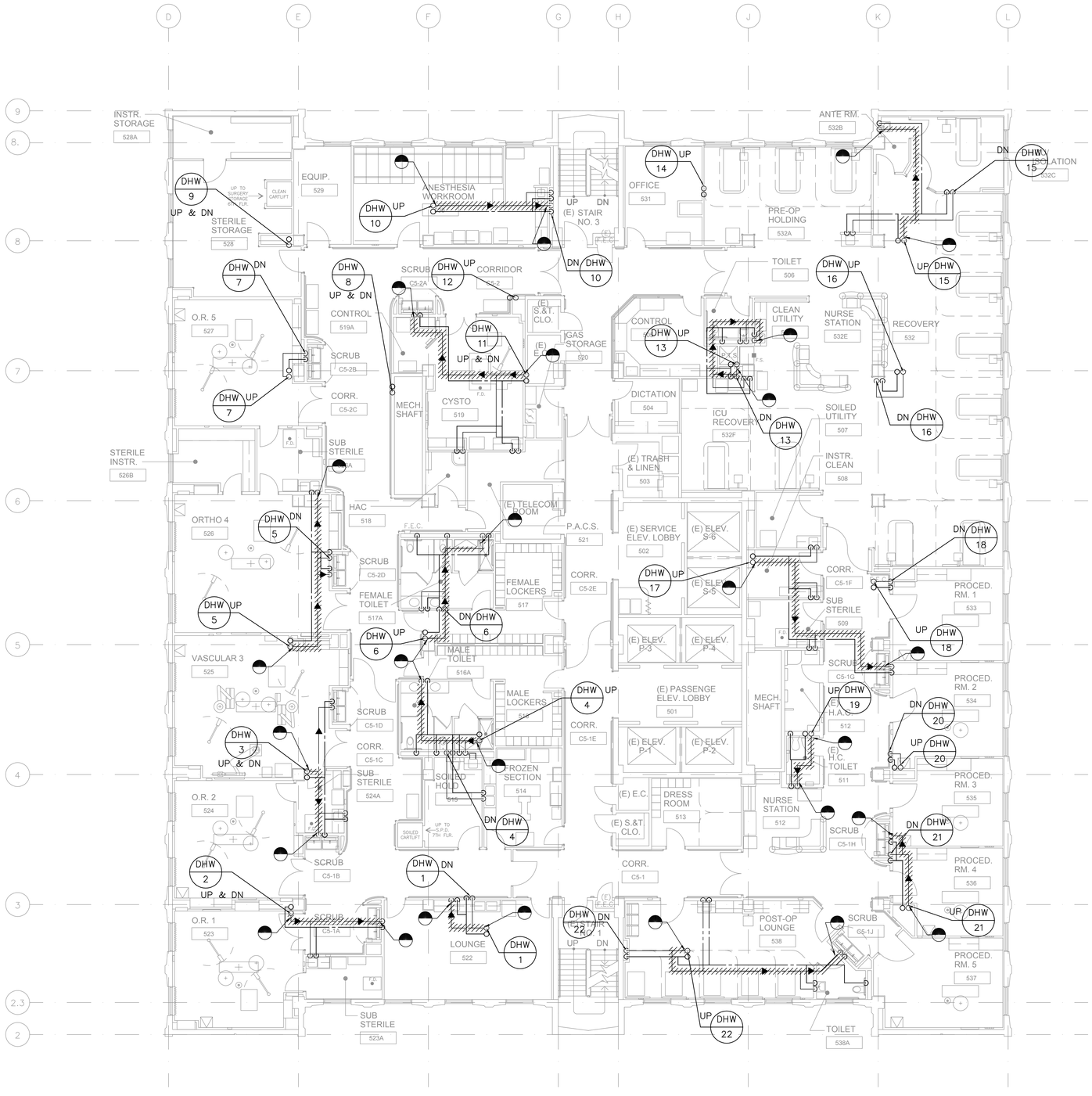
Dwg. 7 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING FIFTH FLOOR PLAN

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

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HIMANSU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

Revisions: Date

Drawing Title: FIFTH FLOOR DEMOLITION PLAN BUILDING 126

Approved: Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 DP105

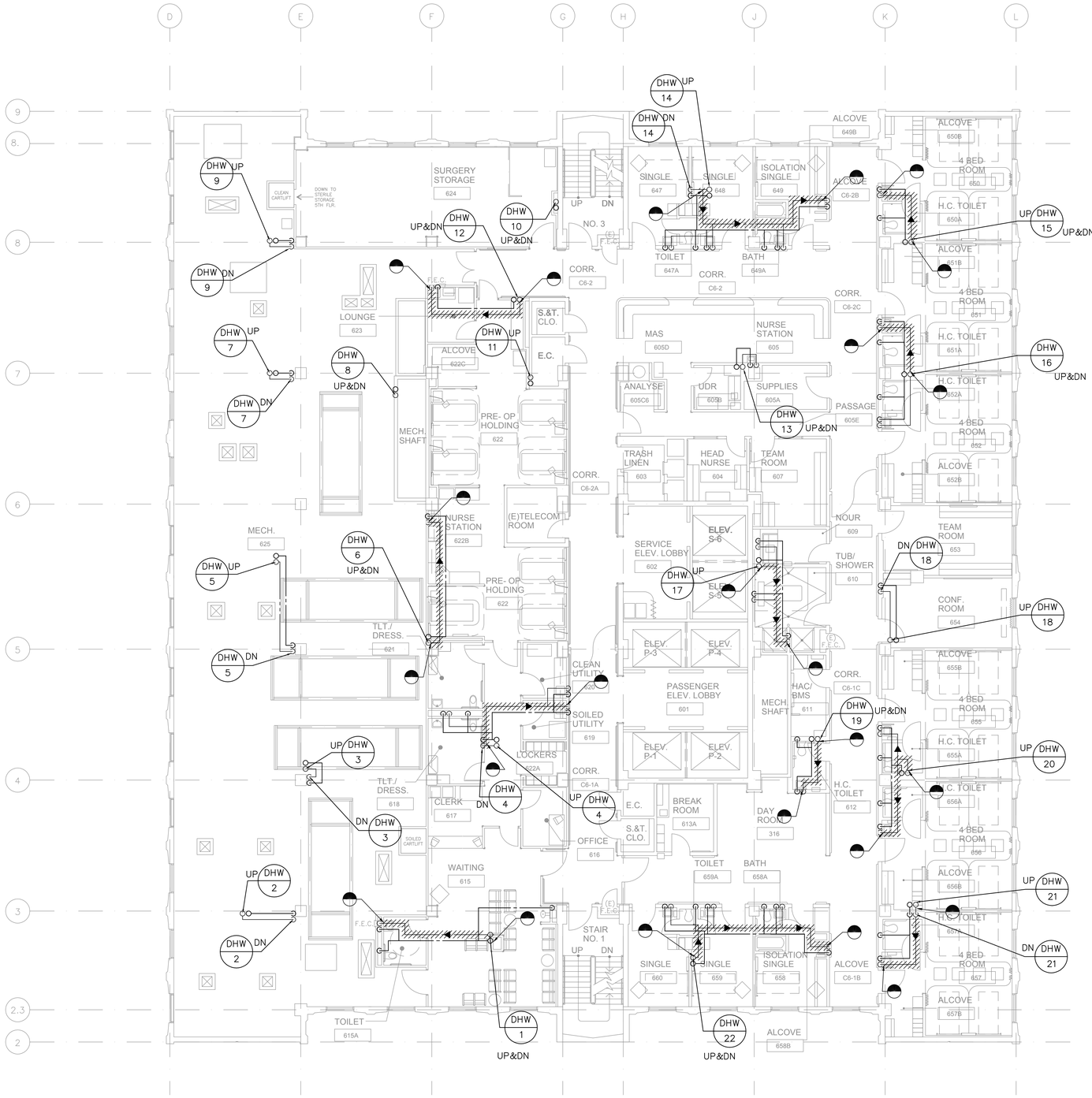
Dwg. 8 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING SIXTH FLOOR PLAN

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

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER YAMANGU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: SIXTH FLOOR DEMOLITION PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 DP106

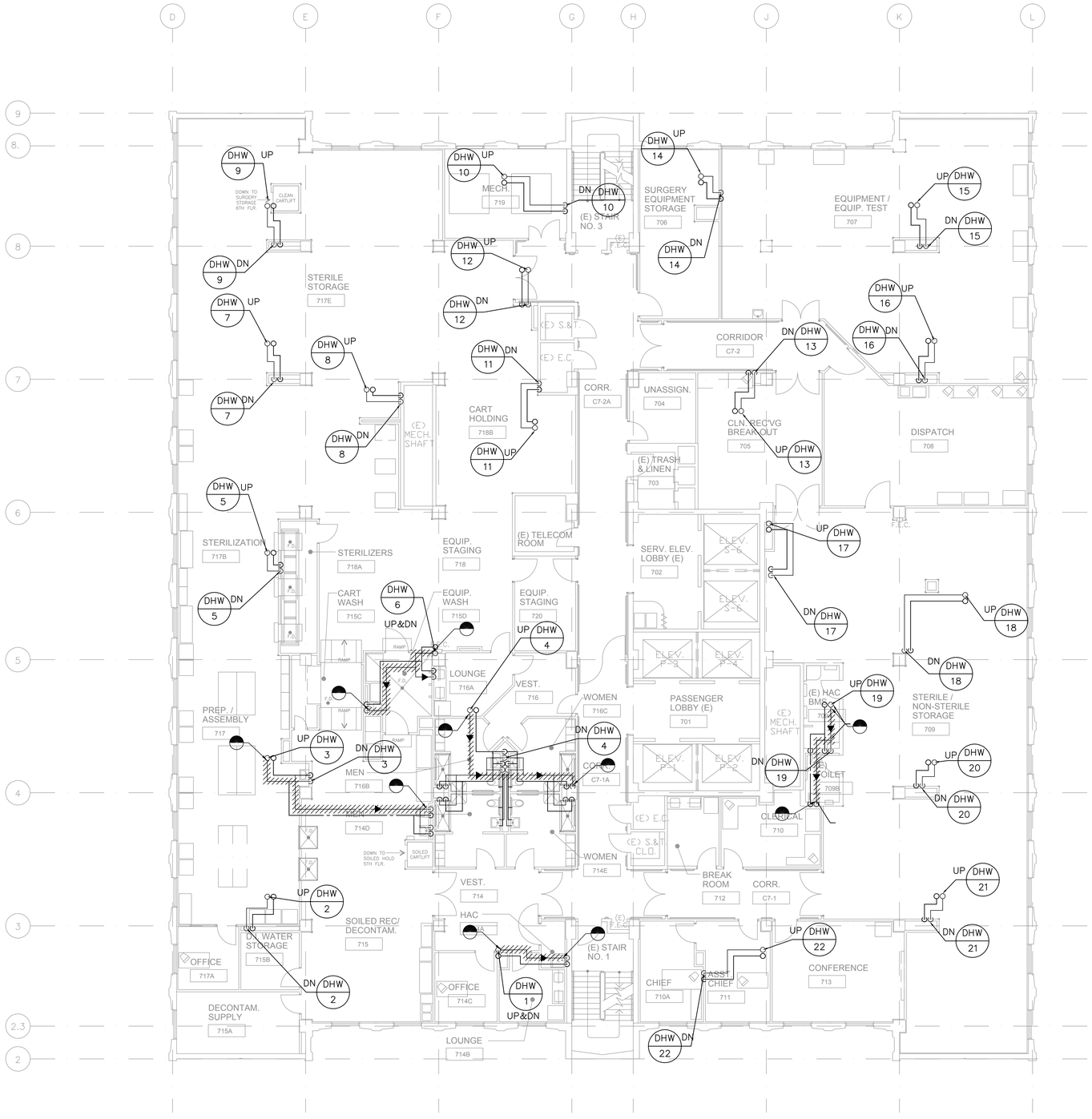
Dwg. 9 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING SEVENTH FLOOR PLAN

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

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER RAMESH P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: SEVENTH FLOOR DEMOLITION PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 DP107

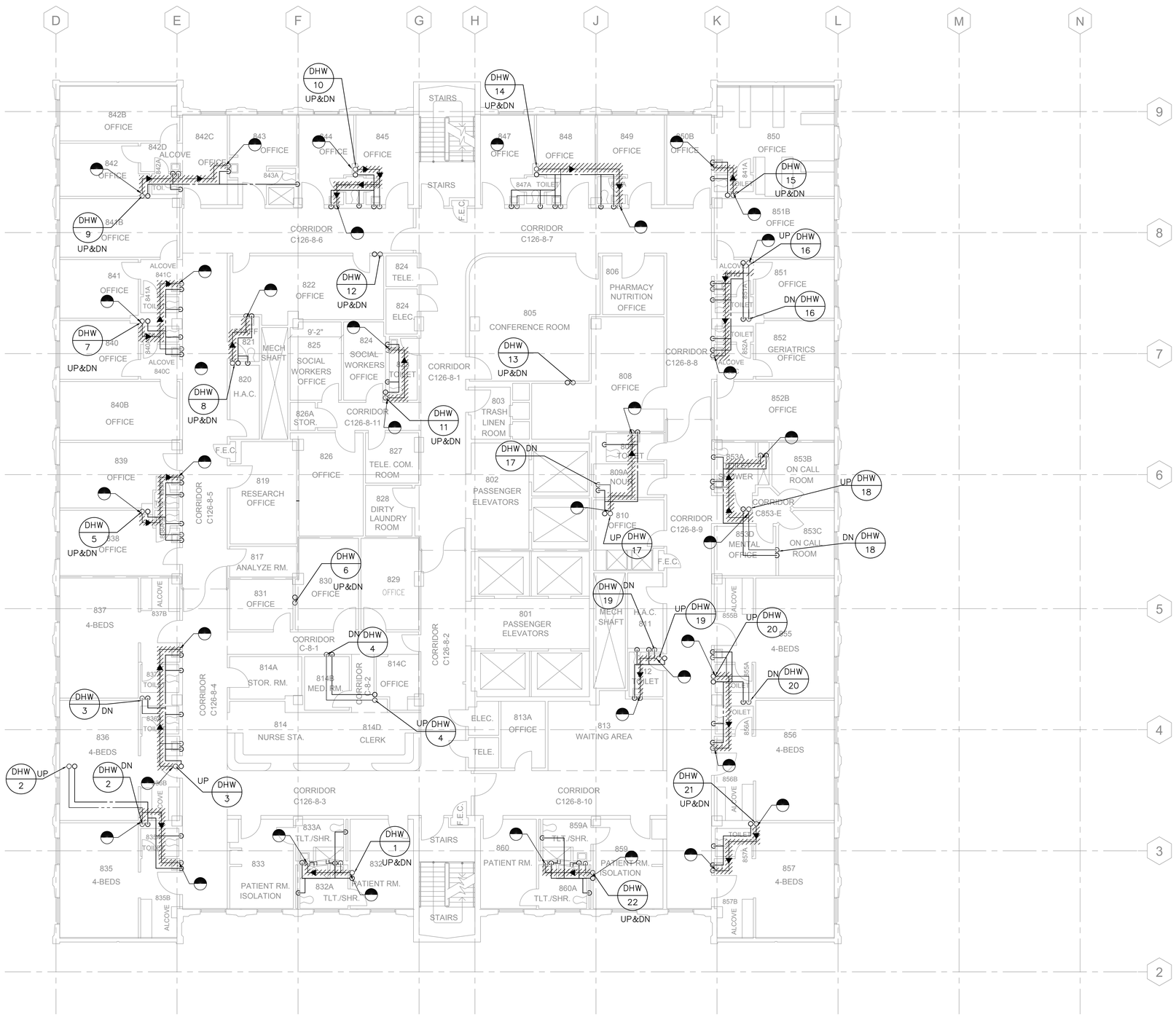
Dwg. 10 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING EIGHTH FLOOR PLAN

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

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER PHUMSU P. SIVAKUMAR No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: EIGHTH FLOOR DEMOLITION PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 DP108

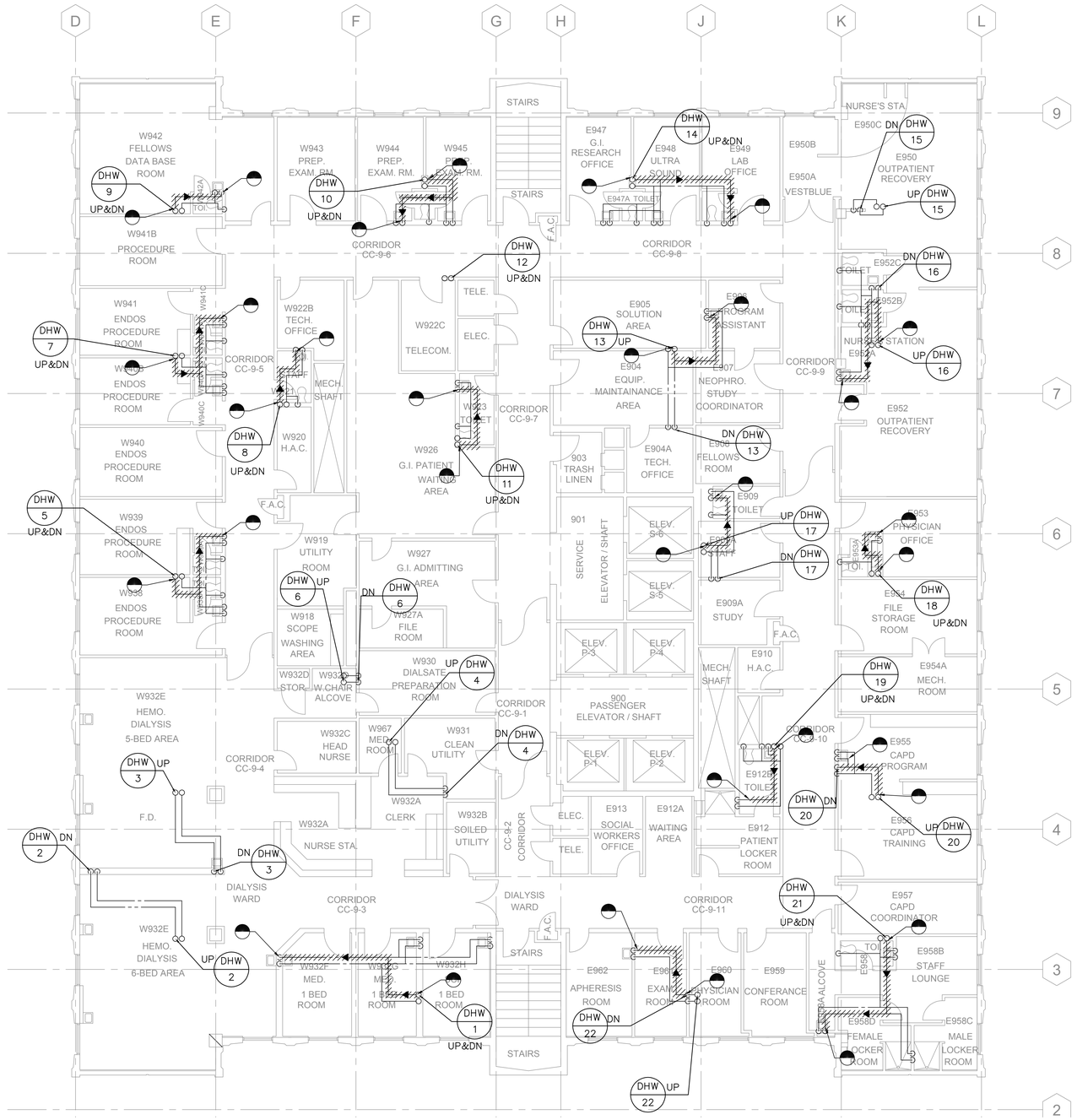
Dwg. 11 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING NINTH FLOOR PLAN

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

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HANGU P. SHAH No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: NINTH FLOOR DEMOLITION PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 DP109

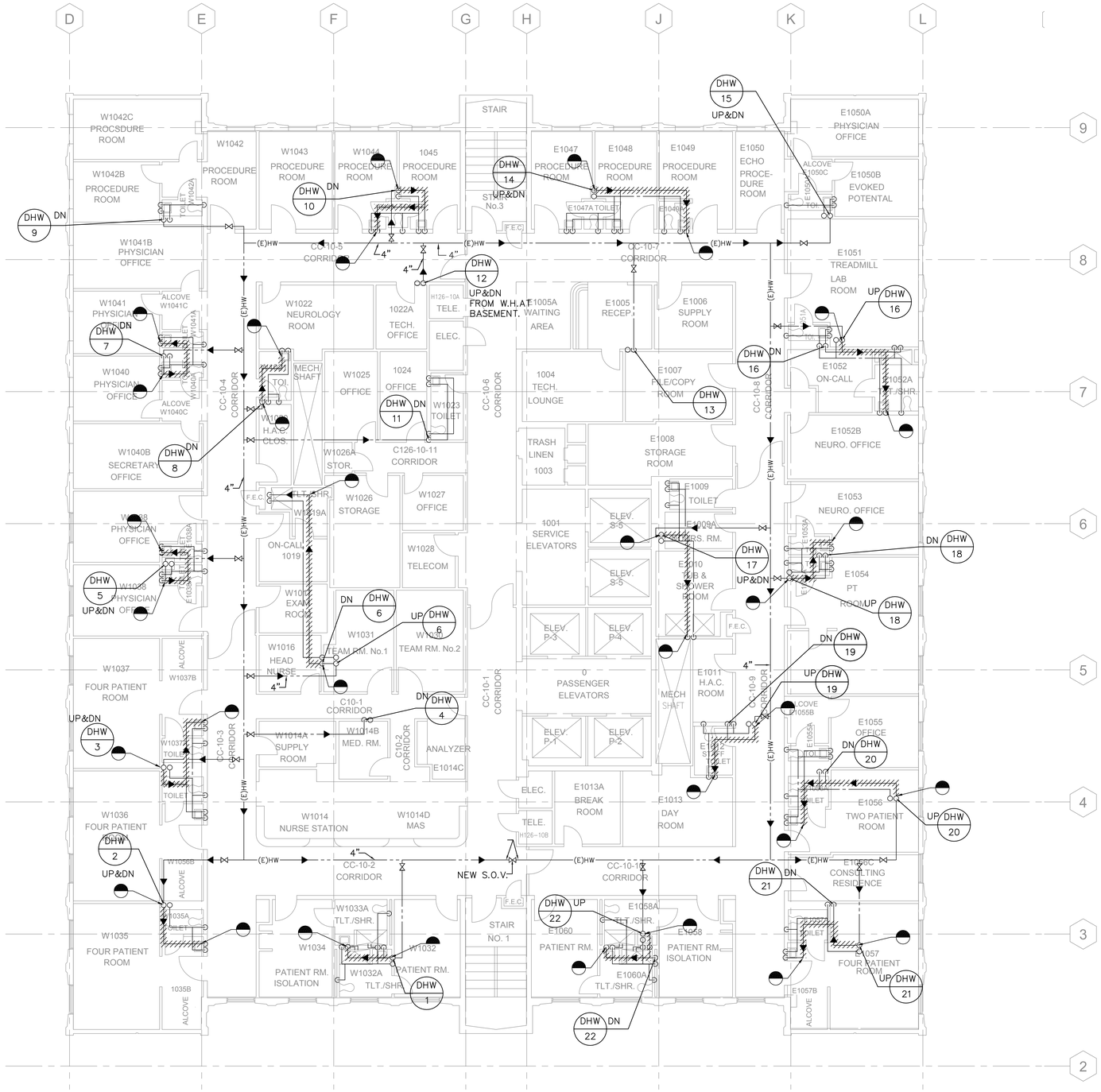
Dwg. 12 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING TENTH FLOOR PLAN

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

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HAMAGU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: TENTH FLOOR DEMOLITION PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 DP110

Dwg. 13 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978

GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING ELEVENTH FLOOR PLAN

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

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER
MANISH P. SHAH
No. M25602
Exp. 6/30/14
MECHANICAL
STATE OF CALIFORNIA

Drawing Title: ELEVENTH FLOOR DEMOLITION PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 DP111

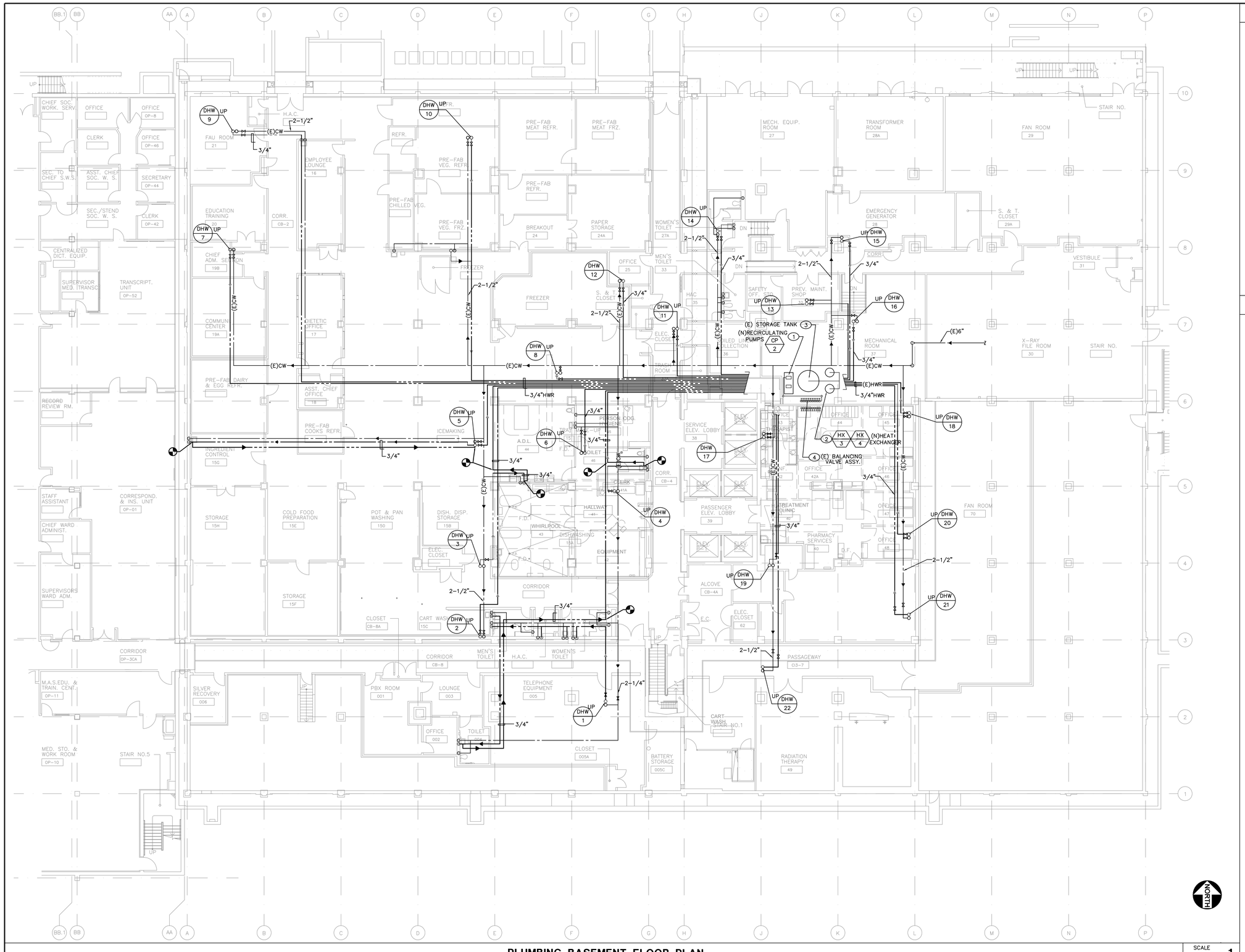
Dwg. 14 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

1. INSTALL NEW RE-CIRCULATING PUMPS ON (E) CONCRETE PADS AND CONNECT ALL PIPING LINES TO EXISTING. FIELD VERIFY LOCATION AND SIZE.
2. INSTALL NEW HEAT EXCHANGER ON (E) CONCRETE PADS AND CONNECT ALL PIPING LINES TO EXISTING. FIELD VERIFY EXACT LOCATION AND SIZE.
3. (E) STORAGE TANK TO REMAIN.
4. (E) BALANCING VALVE ASSY. TO REMAIN.

PLUMBING BASEMENT FLOOR PLAN

SCALE 3/32"=1'-0" 1

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HIMANSU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: PLUMBING BASEMENT PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 P100

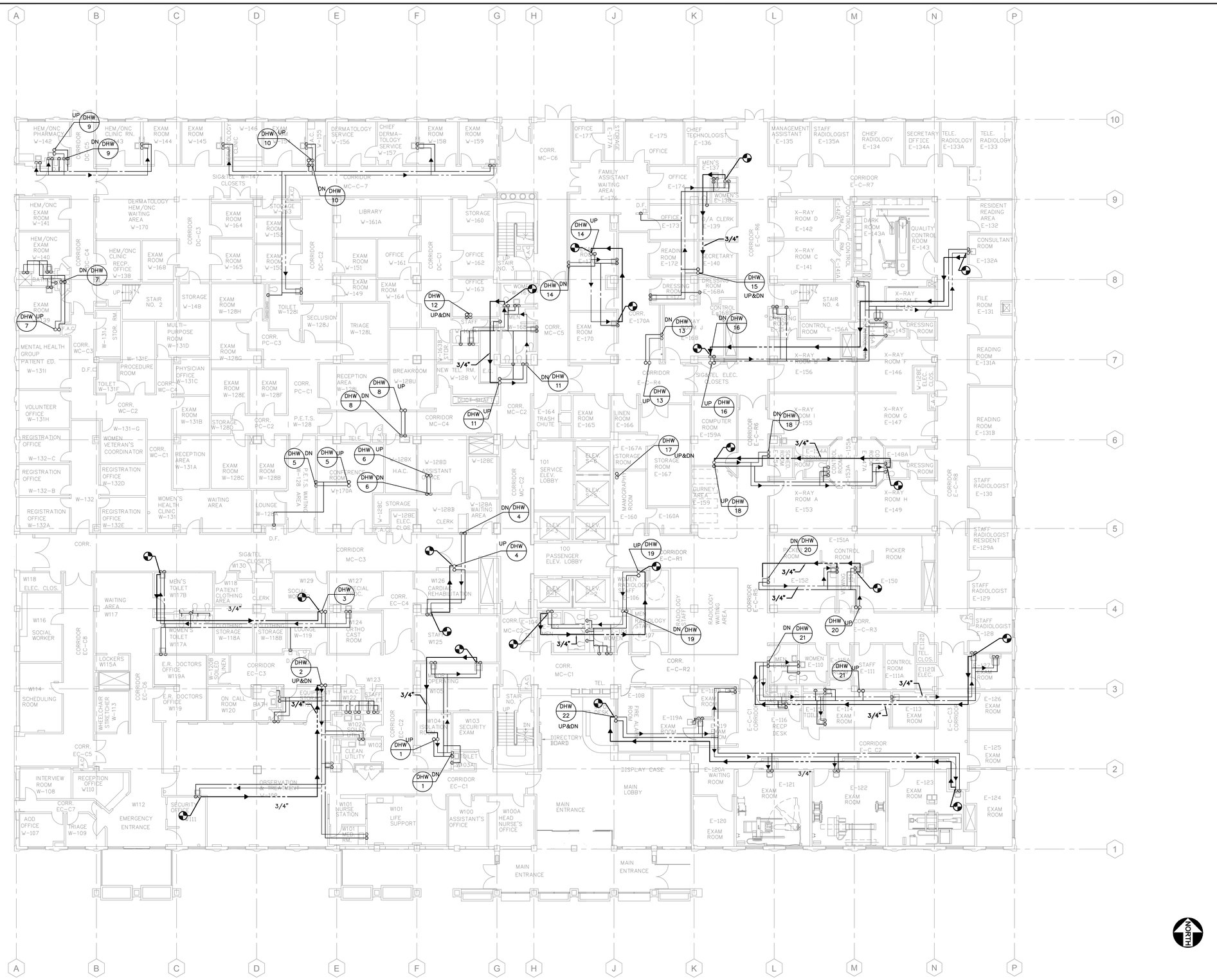
Dwg. 15 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING FIRST FLOOR PLAN

SCALE 3/32"=1'-0" | 1

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER ATMANSU P. SHAH No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

Revisions	Date

Drawing Title: PLUMBING FIRST FLOOR PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 P101

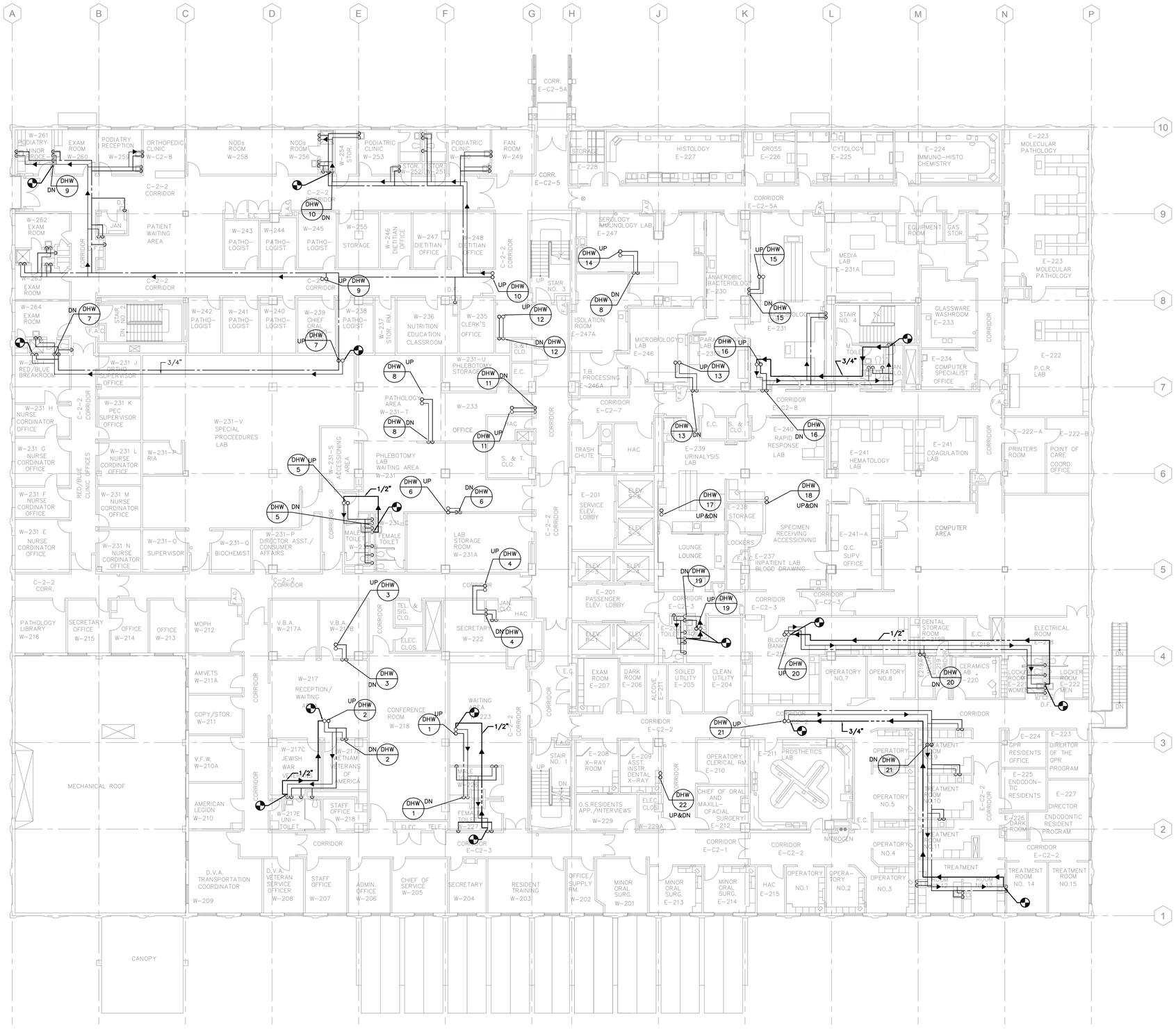
Dwg. 16 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING SECOND FLOOR PLAN

SCALE 3/32"=1'-0" 1

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER MUNGSU P. SHAH No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: PLUMBING SECOND FLOOR PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 P102

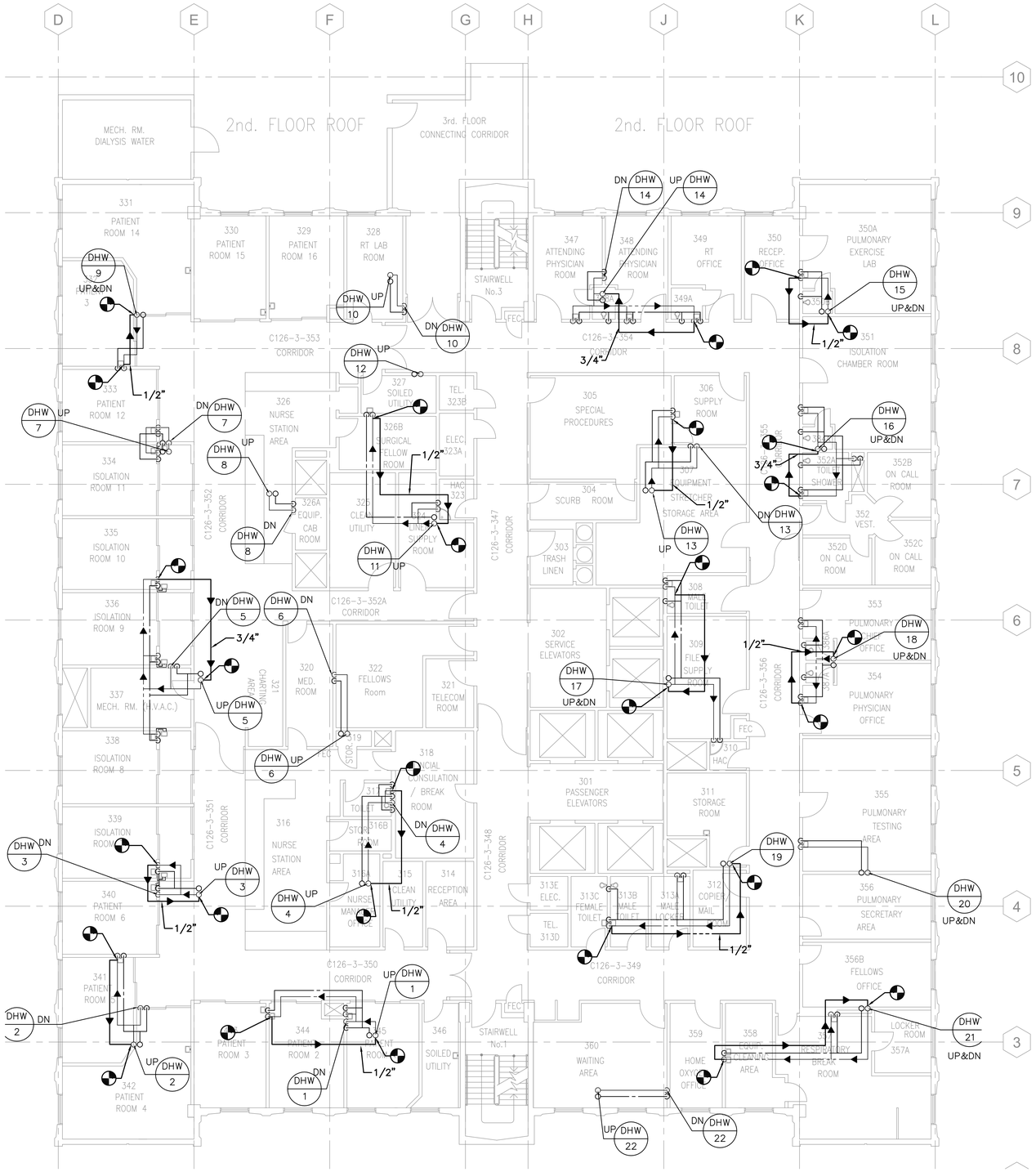
Dwg. 17 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING THIRD FLOOR PLAN

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

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HIMANSU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

Revisions: Date

Drawing Title: PLUMBING THIRD FLOOR PLAN BUIOLDING 126

Approved: Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 P103

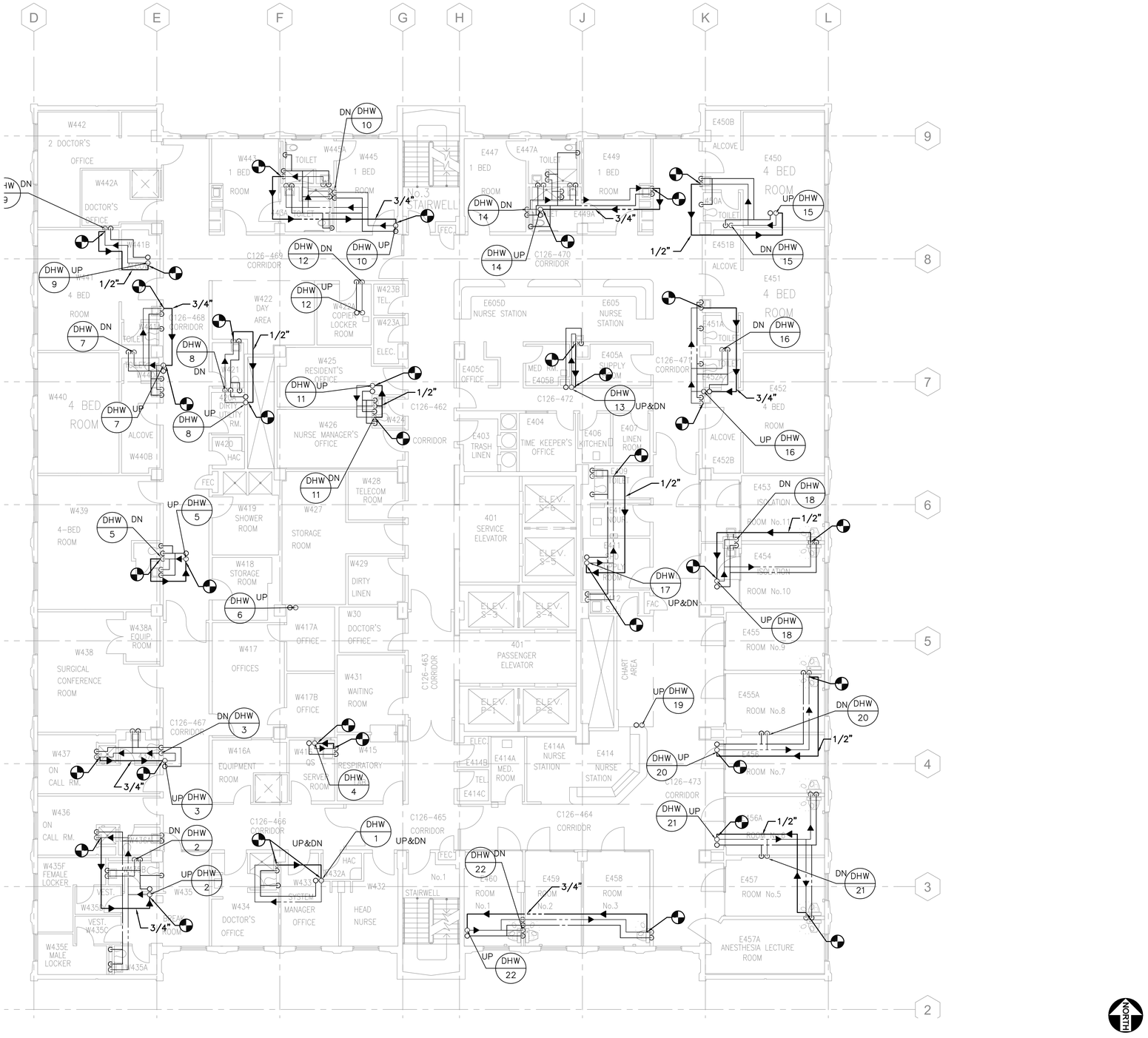
Dwg. 18 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING FOURTH FLOOR PLAN

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

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER
HIMANSU P. SHAH
No. M25602
Exp. 9/30/14
MECHANICAL
STATE OF CALIFORNIA

Revisions: Date

Drawing Title: PLUMBING FOURTH FLOOR PLAN BUILDING 126

Approved: Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 P104

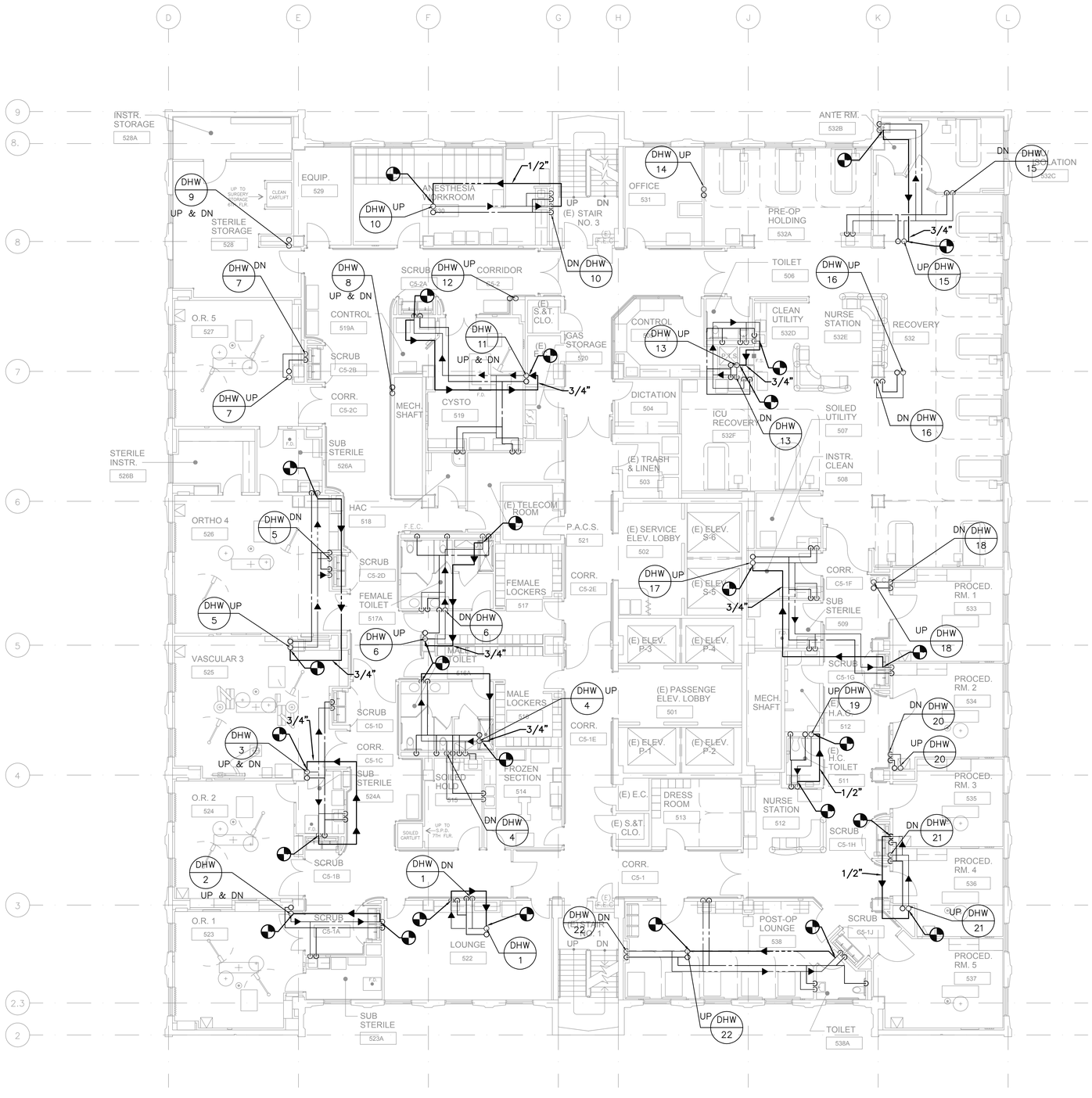
Dwg. 19 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING FIFTH FLOOR PLAN

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

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER MUNGSU P. SHAH No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

Revisions Date

Drawing Title: PLUMBING FIFTH FLOOR PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 P105

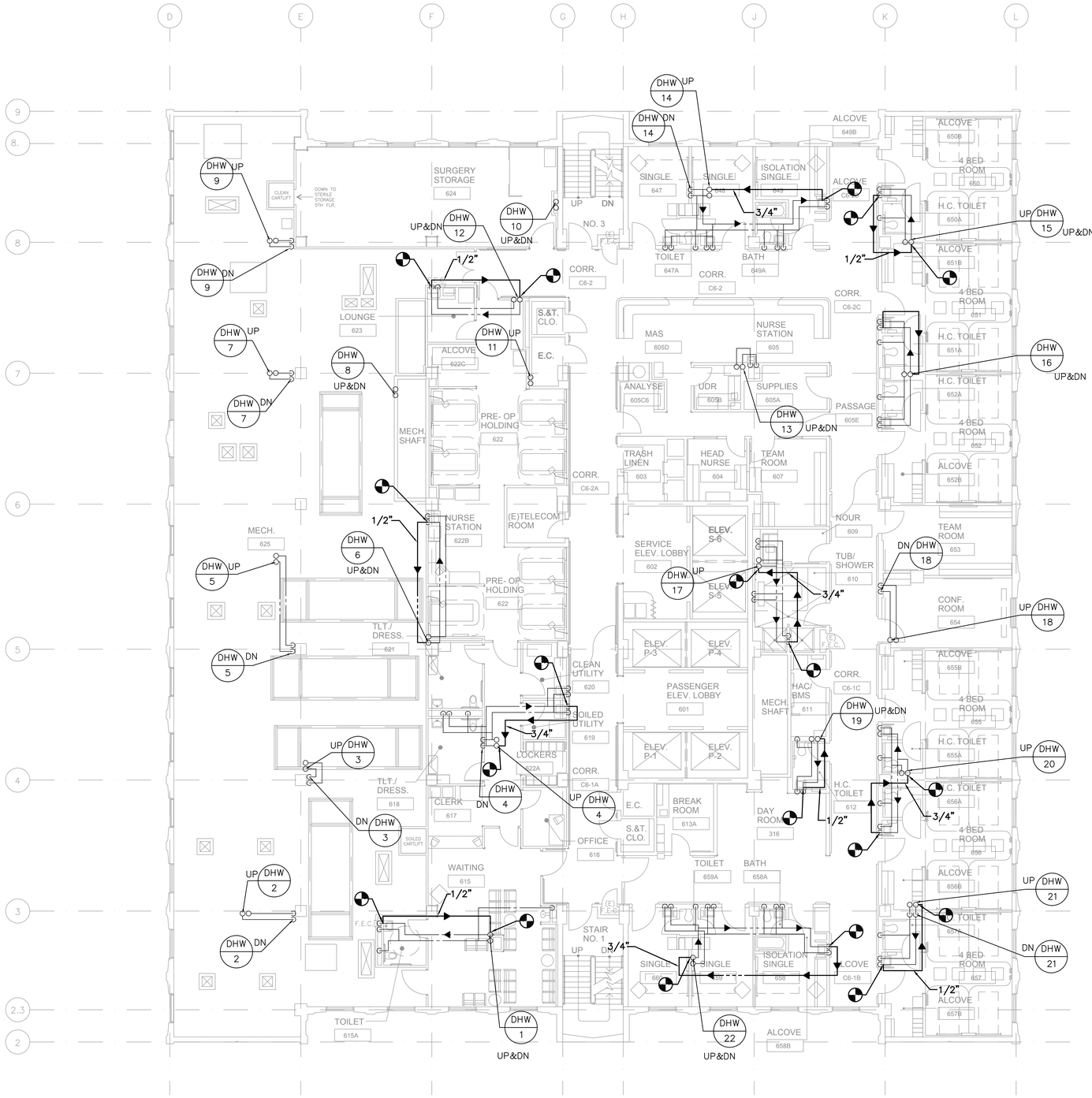
Dwg. 20 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING SIXTH FLOOR PLAN

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

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HANGU P. SHAH No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: PLUMBING SIXTH FLOOR PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 P106

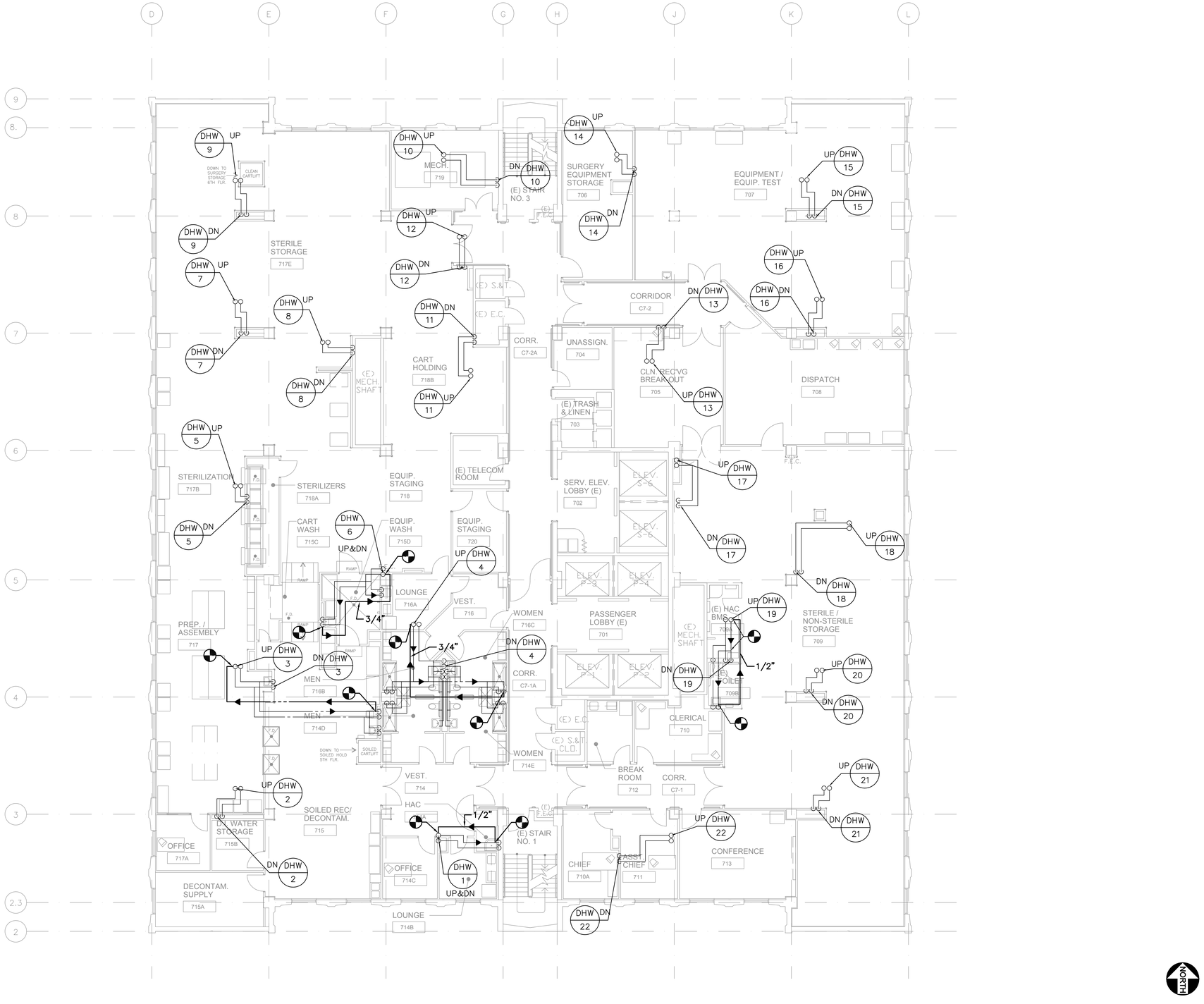
Dwg. 21 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING SEVENTH FLOOR PLAN

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

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HIMANSU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

Revisions	Date

Drawing Title: PLUMBING SEVENTH FLOOR PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date	Checked	Drawn
JUNE 24, 2014	TS	HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 P107

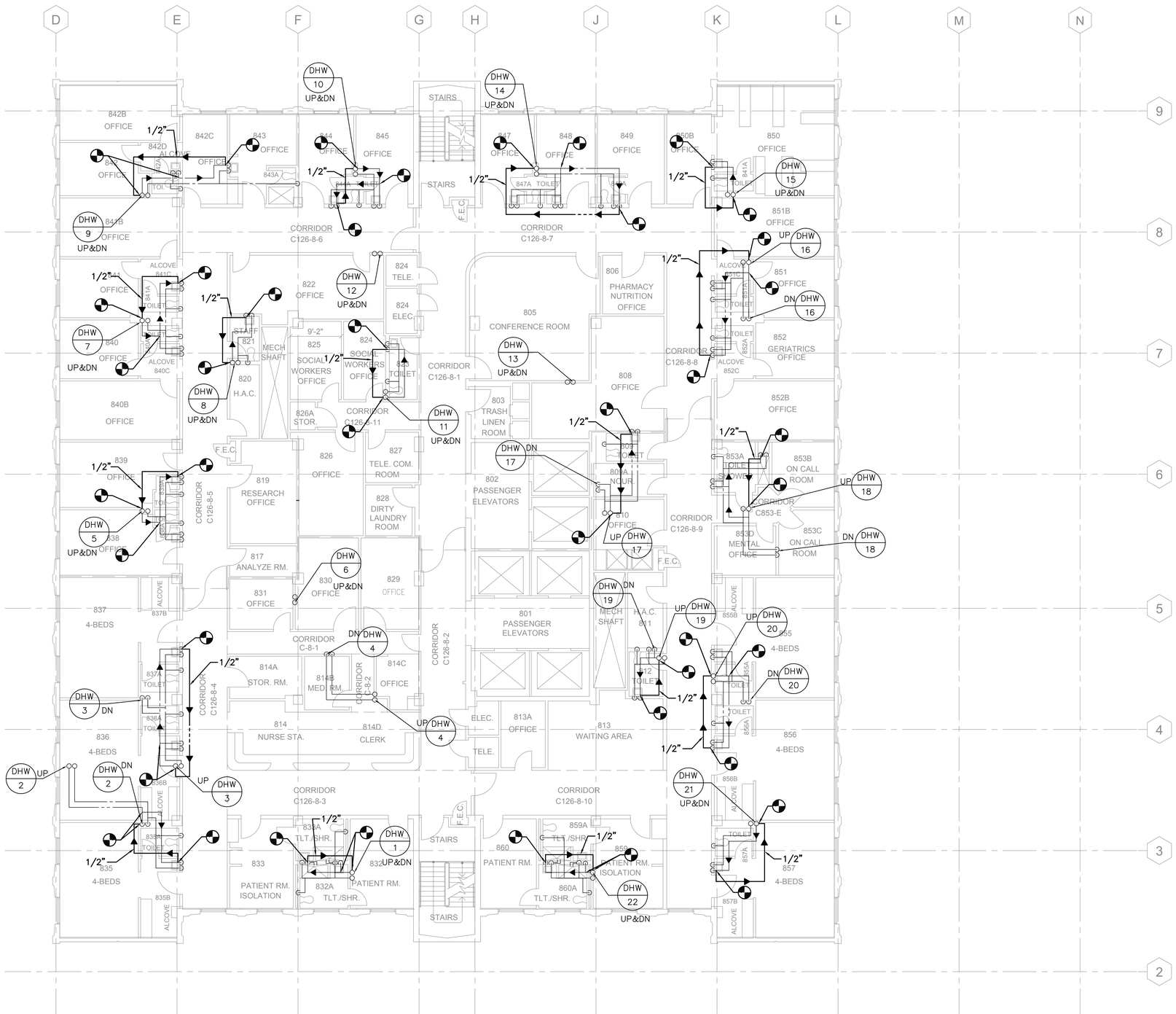
Dwg. 22 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING EIGHTH FLOOR PLAN

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

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HUMANSU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

Revisions: Date

Drawing Title: PLUMBING EIGHTH FLOOR PLAN BUILDING 126

Approved: Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 P108

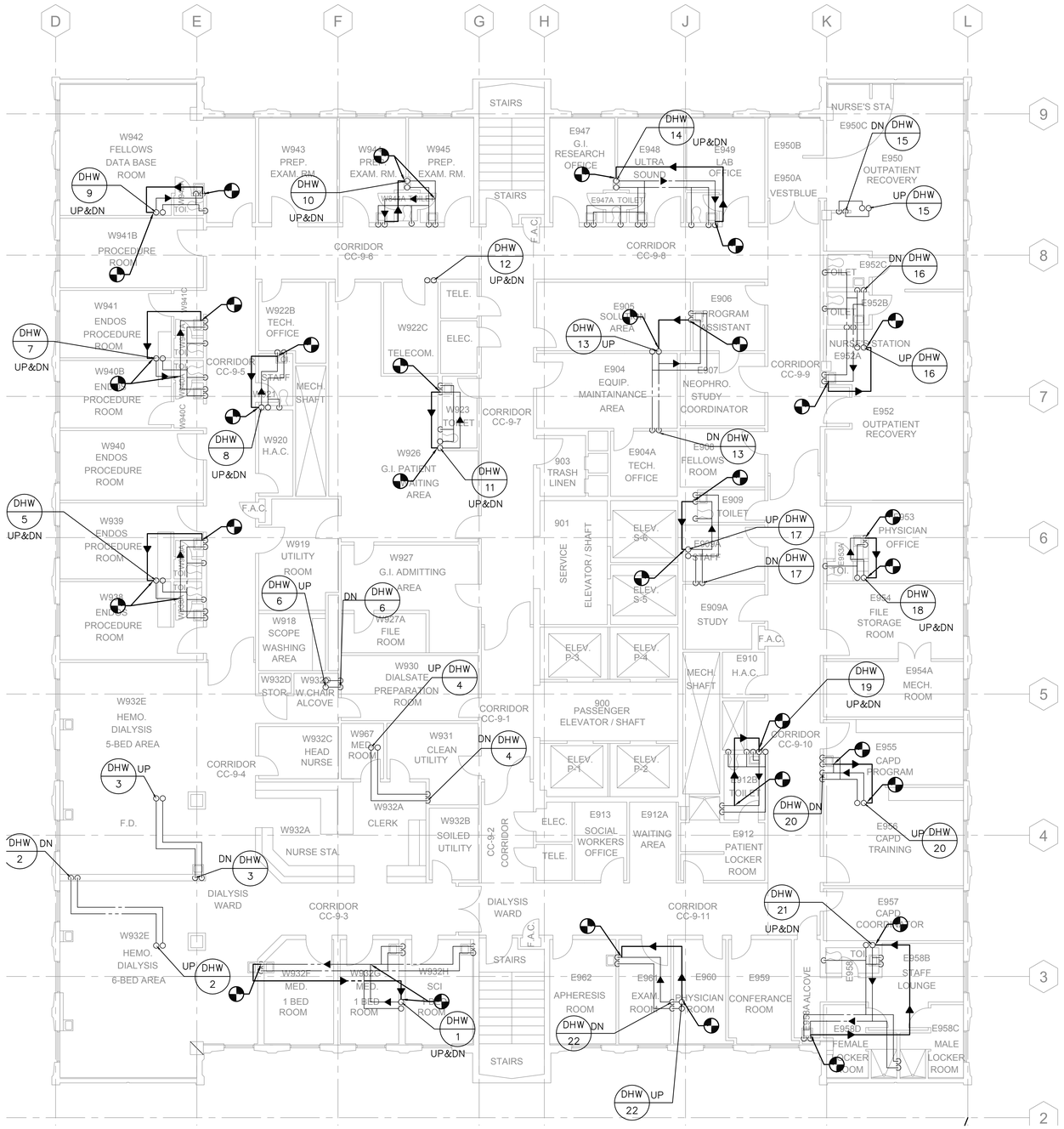
Dwg. 23 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING EIGHTH FLOOR PLAN

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

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HEMANSU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: PLUMBING NINTH FLOOR PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 P109

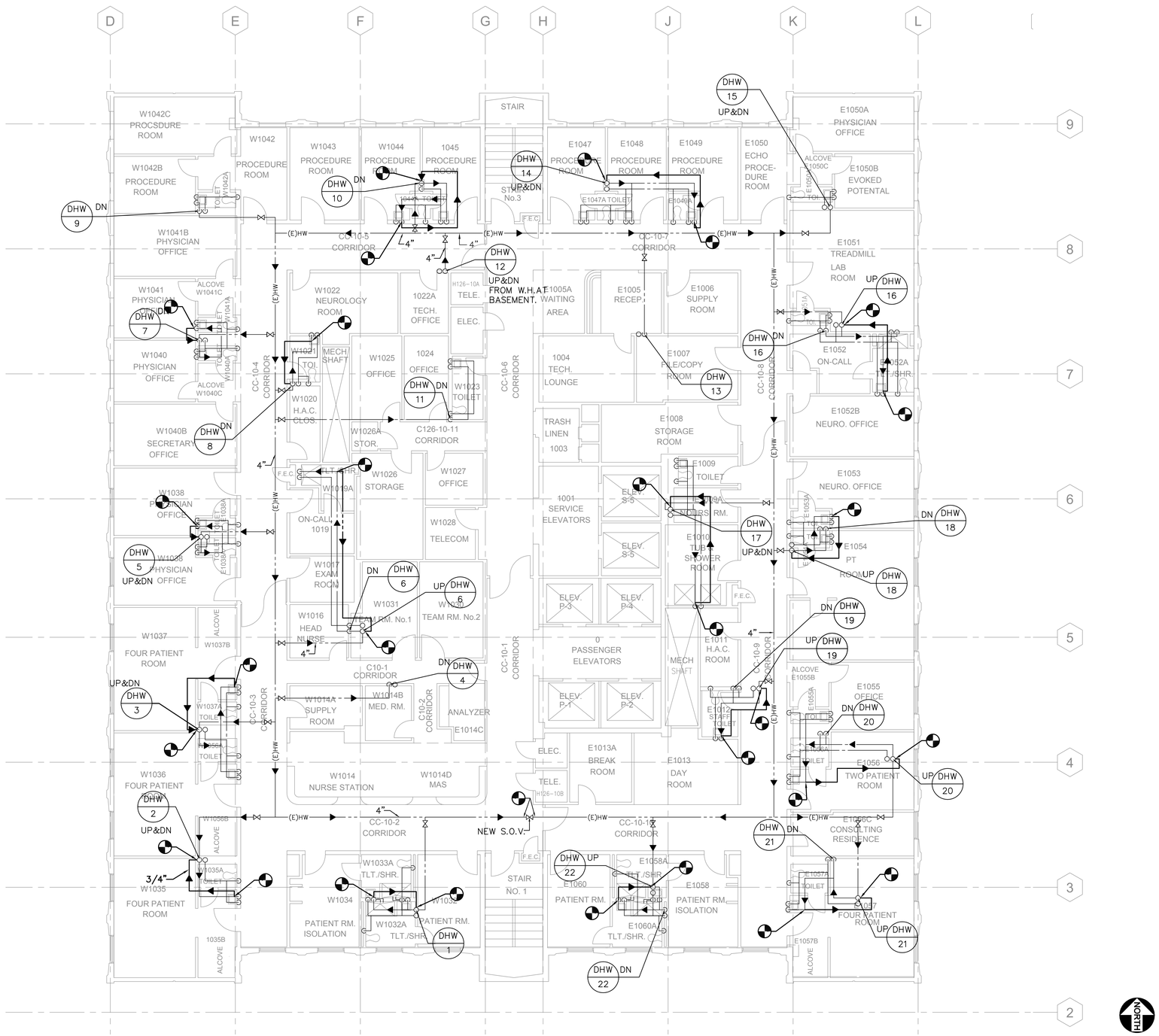
Dwg. 24 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING TENTH FLOOR PLAN

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

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER SHANGU P. SHAH No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

Revisions	Date

Drawing Title: PLUMBING TENTH FLOOR PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Project Number: 600-13-101

Building Number: 126

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Drawing Number: 126 P110

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

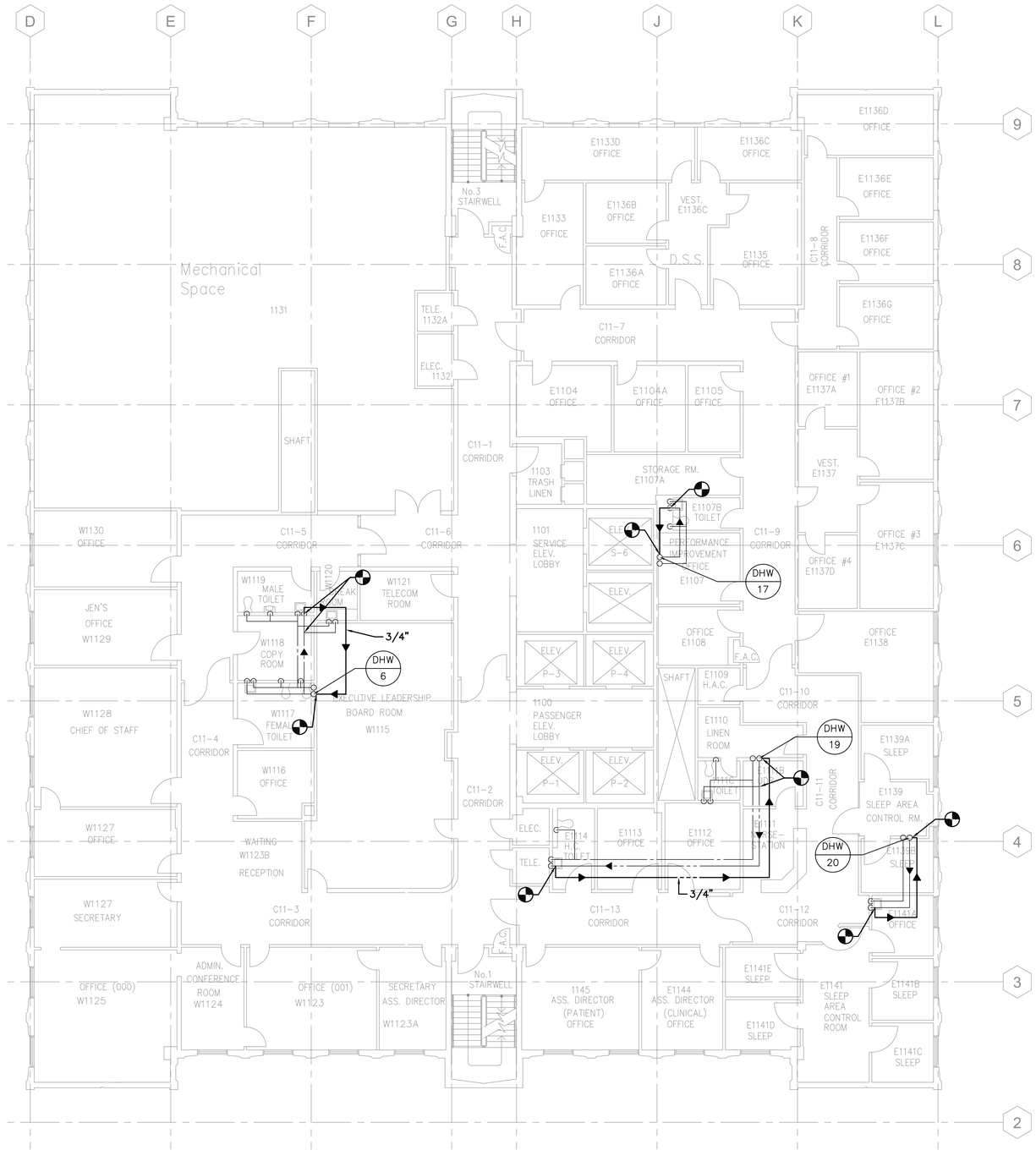
Dwg. 25 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

PLUMBING ELEVENTH FLOOR PLAN

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

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER MANISH P. SHAH No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: PLUMBING ELEVENTH FLOOR PLAN BUILDING 126

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126

Drawing Number: 126 P111

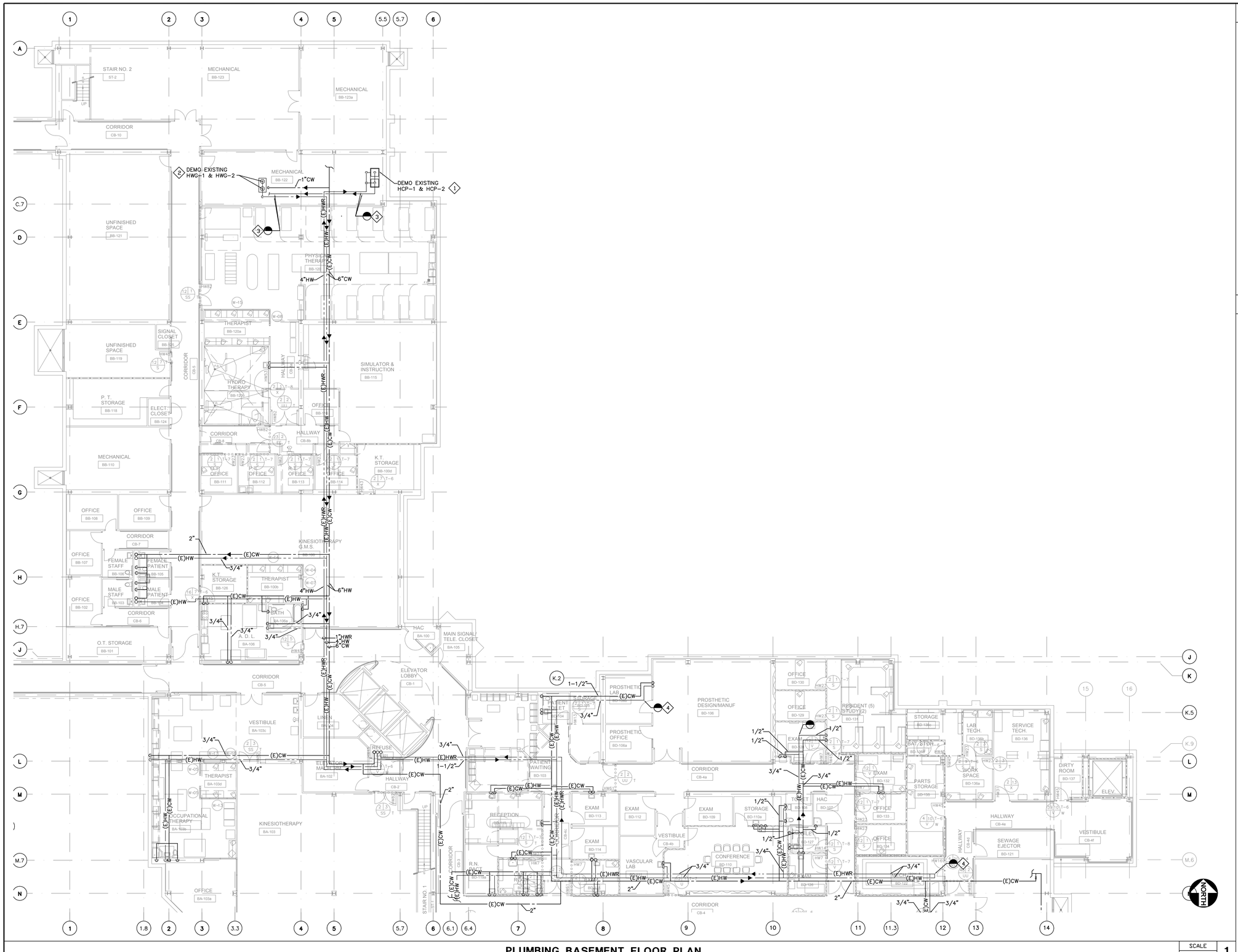
Dwg. 26 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



PLUMBING BASEMENT FLOOR PLAN

SCALE 3/32"=1'-0" 1

GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO THE INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

1. REPLACE EXISTING RECIRCULATING PUMPS.
2. REPLACE EXISTING HEAT EXCHANGERS
3. DISCONNECT EXISTING HW, HWR AND CW LINES ABOVE CEILING FOR FUTURE CONNECTIONS.
4. DISCONNECT WATER LINE FOR FUTURE CONNECTION ABOVE.

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HIMANSU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: BASEMENT DEMOLITION PLAN BUILDING 150

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date	Checked	Drawn
JUNE 24, 2014	TS	HS

Project Number: 600-13-101

Building Number: 150

Drawing Number: 150 DP100

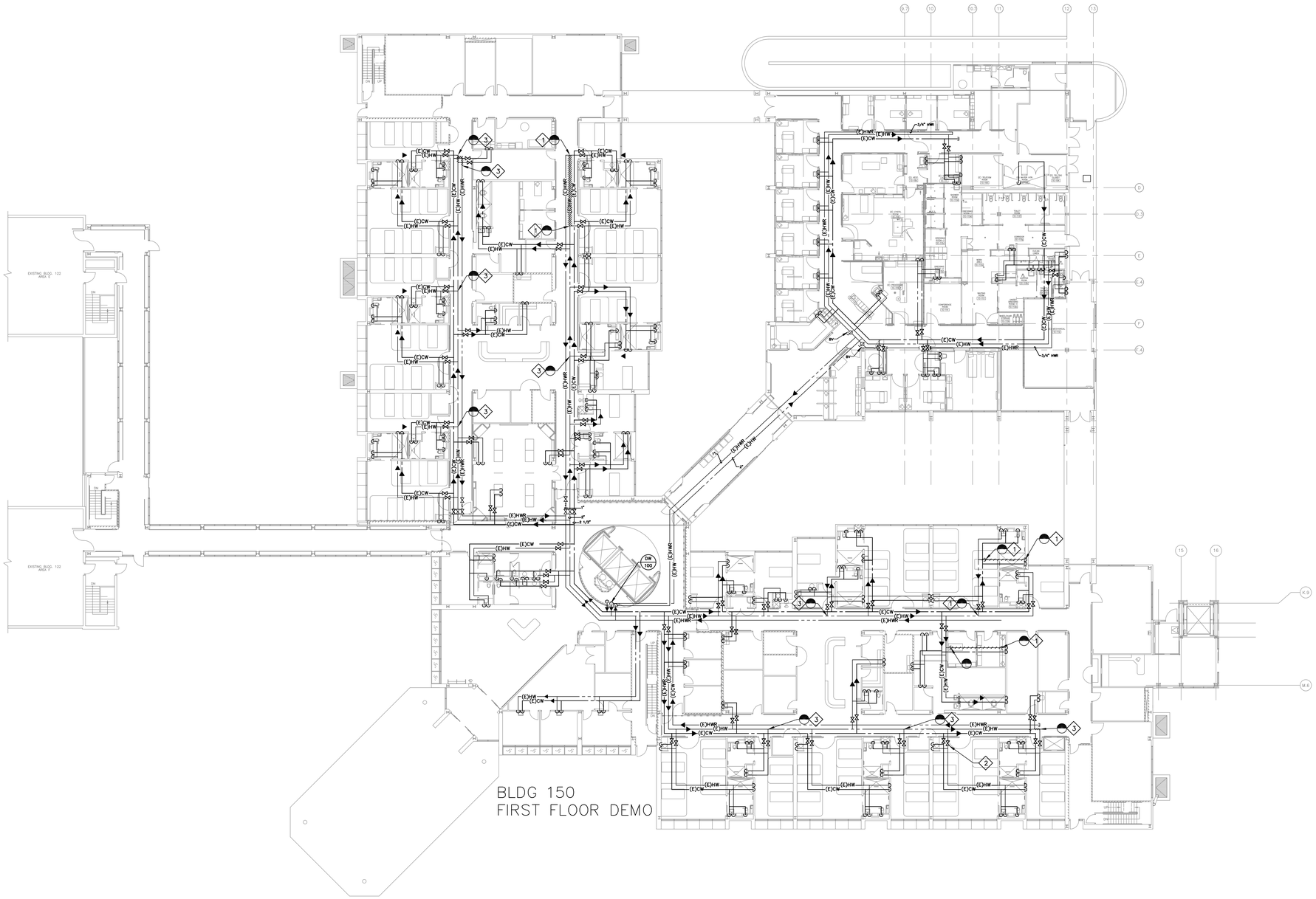
Dwg. 27 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

1. DEMO (E) HW LINE & CAP LINE ABOVE CEILING.
2. REPLACE (E) S.O.V. WITH NEW BALANCING VALVE.
3. DEMO (E) LINE & CONNECT TO HWR LINE ABOVE CEILING.

PLUMBING FIRST FLOOR PLAN

SCALE 1/16"=1'-0"

1

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER YAMANGU F. SHAH No. M25602 Exp. 3/2014 MECHANICAL STATE OF CALIFORNIA

Drawing Title: FIRST FLOOR DEMOLITION PLAN BUILDING 150

Approved: Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 150

Drawing Number: 150 DP101

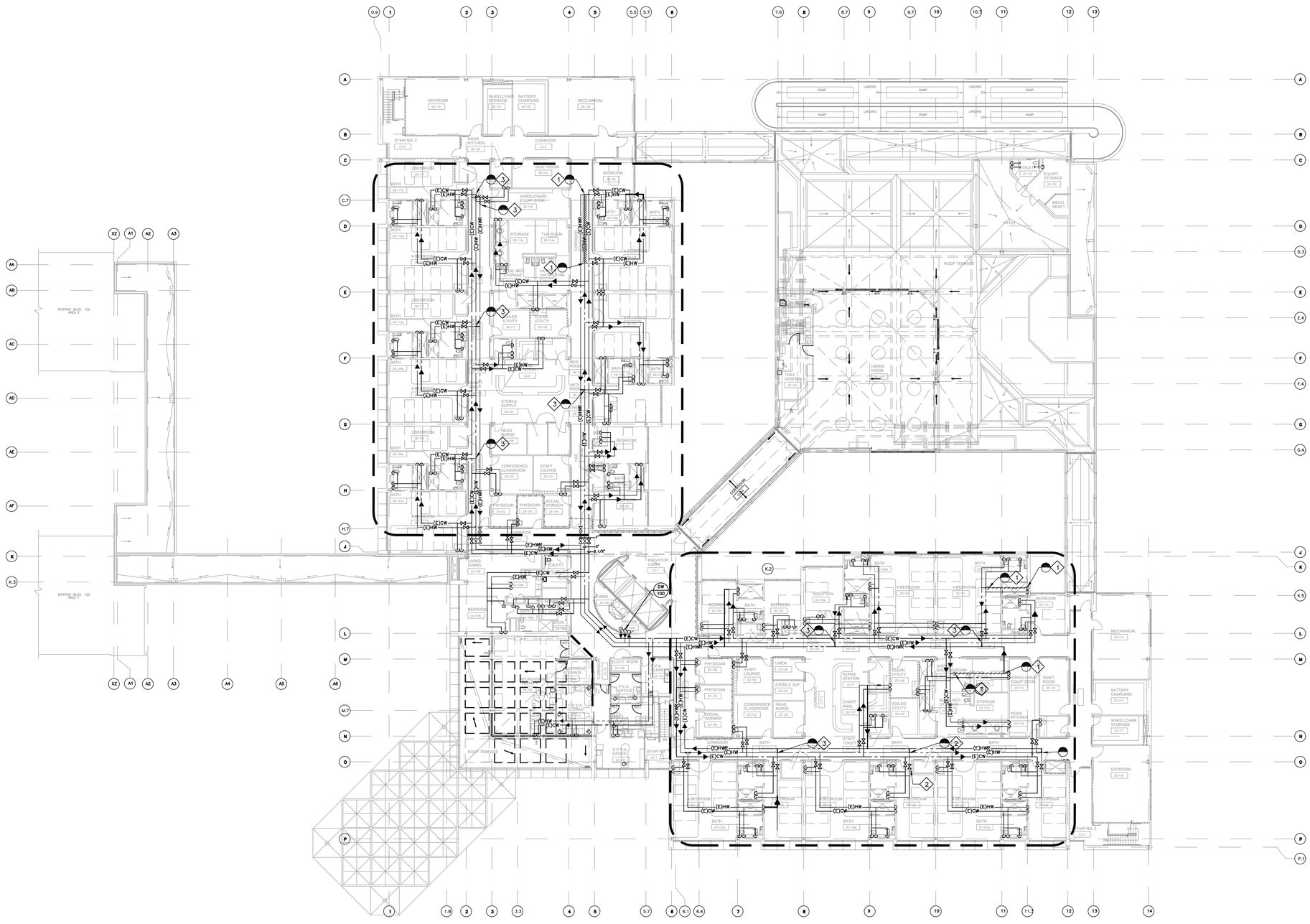
Dwg. 28 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

1. DEMO (E) HW LINE & CAP LINE ABOVE CEILING.
2. REPLACE (E) S.O.V. WITH NEW BALANCING VALVE.
3. DEMO (E) LINE AND CONNECT TO HWR LINE ABOVE CEILING.

PLUMBING SECOND FLOOR PLAN

SCALE 1/16"=1'-0" 1

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER
HUMANSU P. SHAH
No. M25602
Exp. 9/30/14
MECHANICAL
STATE OF CALIFORNIA

Drawing Title: SECOND FLOOR DEMOLITION PLAN BUILDING 150

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date	Checked	Drawn
JUNE 24, 2014	TS	HS

Project Number: 600-13-101

Building Number: 150

Drawing Number: 150 DP102

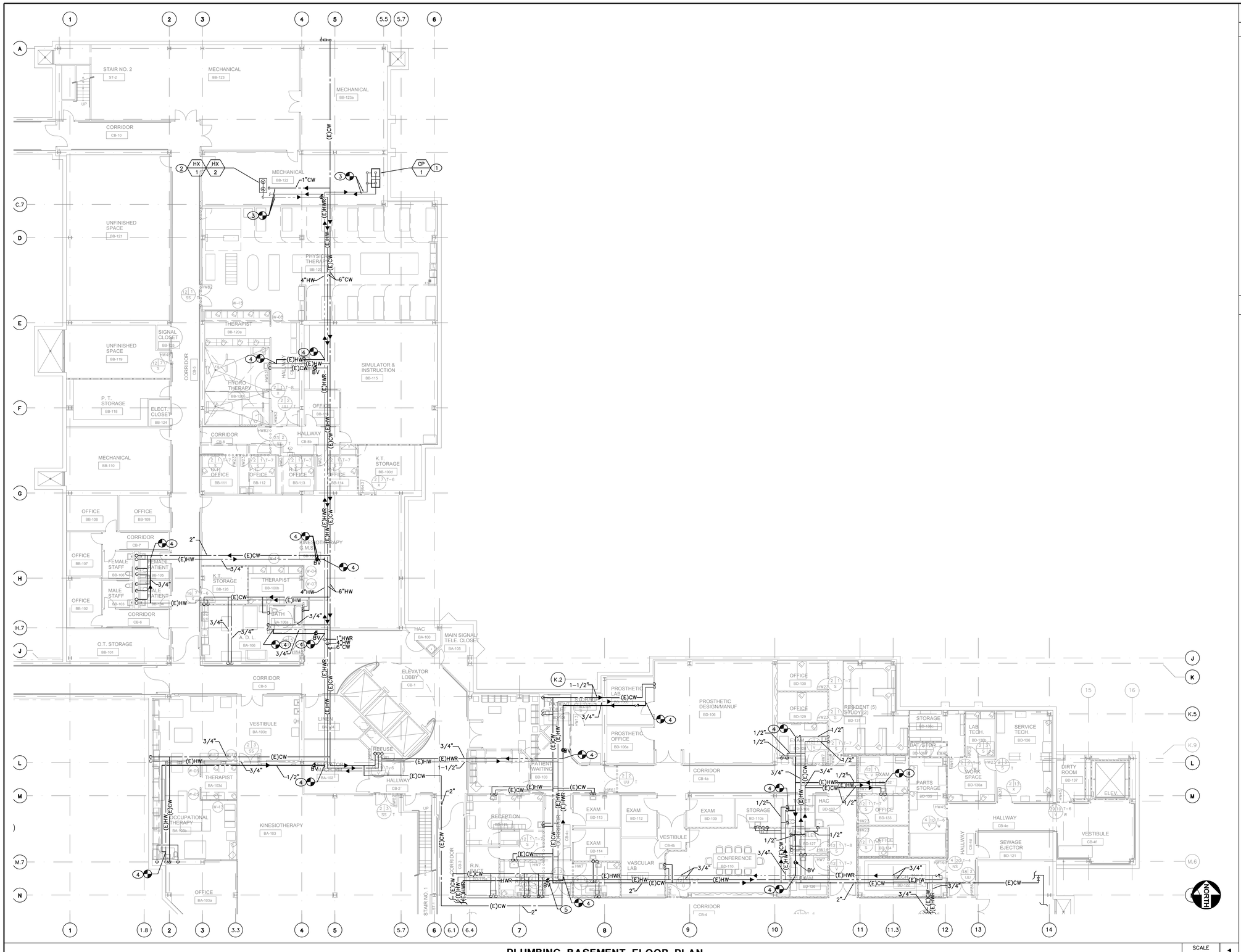
Dwg. 29 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



PLUMBING BASEMENT FLOOR PLAN

SCALE 3/32"=1'-0" 1

GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO THE INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

1. INSTALL NEW RECIRCULATING PUMP ON EXISTING CONCRETE PAD AND CONNECT TO EXISTING PIPING. FIELD VERIFY EXACT LOCATION & PIPE SIZES.
2. INSTALL NEW HEAT EXCHANGER ON EXISTING CONCRETE PAD AND CONNECT TO EXISTING PIPING FIELD VERIFY EXACT LOCATION & PIPE SIZES.
3. CONNECT EXISTING HW, HWR AND CW LINES TO NEW HEAT EXCHANGER AND RECIRCULATING PUMPS.
4. CONNECT NEW HW AND HWR LINES TO NEW LINES ABOVE CEILING
5. INSTALL NEW BALANCING VALVE ABOVE CEILING.

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HITANSU P. SHAH No. M25602 Exp. 6/30/15 MECHANICAL STATE OF CALIFORNIA

Drawing Title: PLUMBING BASEMENT PLAN BUILDING 150

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Project Number: 600-13-101

Building Number: 150

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Drawing Number: 150 P100

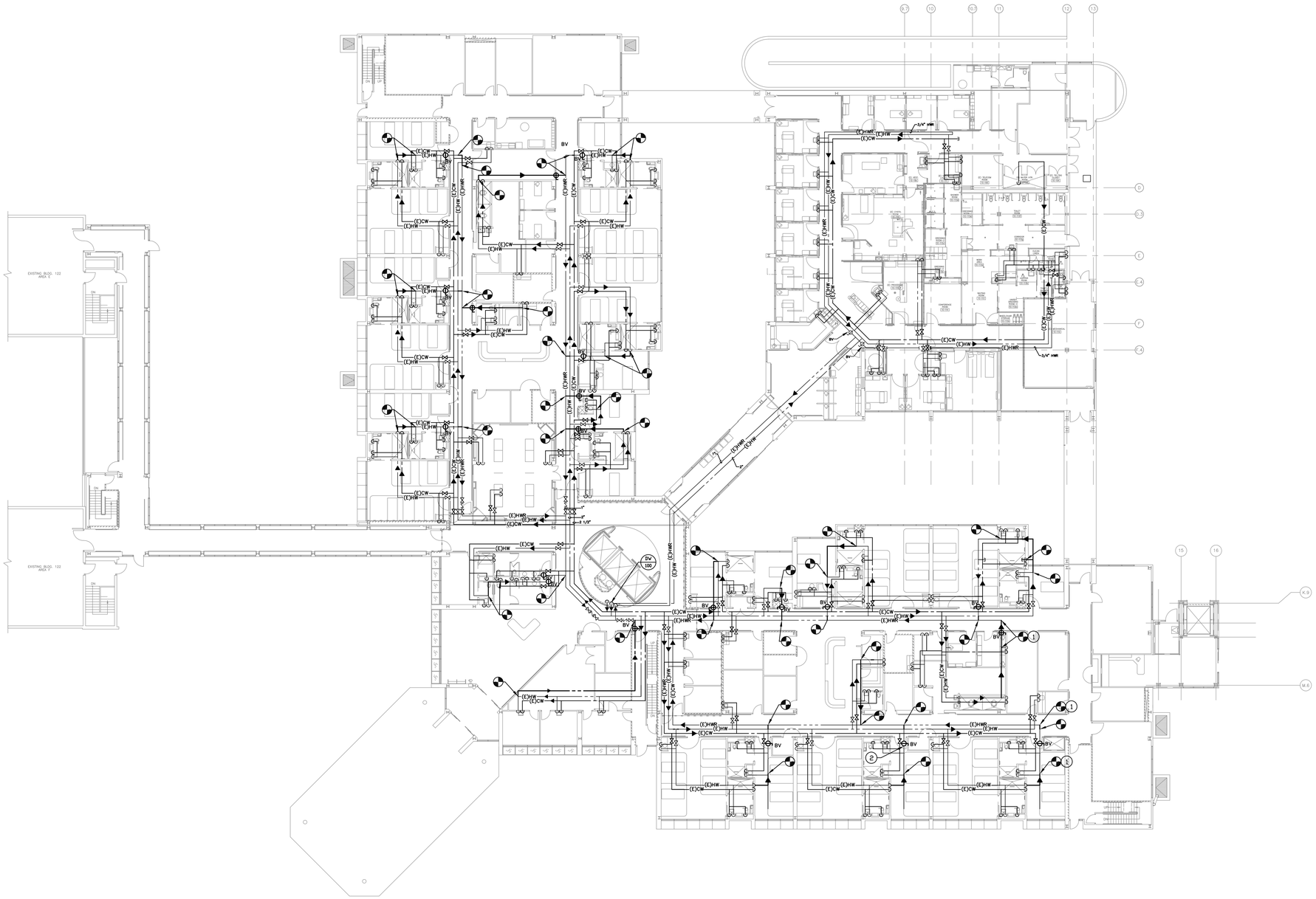
Dwg. 30 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



GENERAL NOTES

1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE.
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

1. CONNECT NEW HW AND HWR PIPING TO EXISTING PIPING ABOVE CEILING.
2. REPLACE (E) S.O.V. WITH NEW BALANCING VALVE.

PLUMBING FIRST FLOOR PLAN

SCALE 1/16"=1'-0"

1

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER YAMANGU F. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: PLUMBING FIRST FLOOR PLAN BUILDING 150

Approved: Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 150

Drawing Number: 150 P101

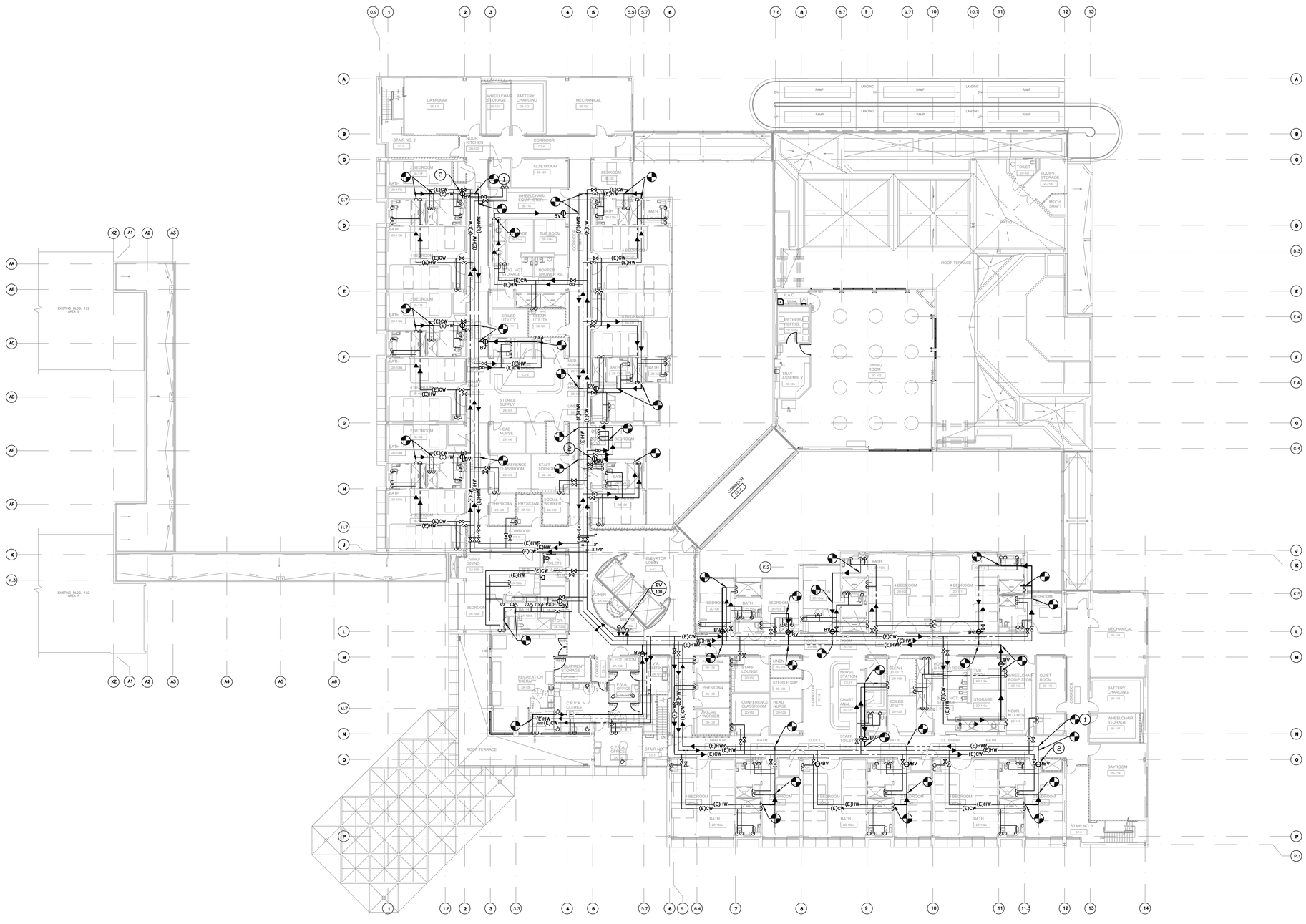
Dwg. 31 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



1. BEFORE PROCEEDING WITH DEMOLITION WORK VERIFY LOCATION OF AFFECTED PLUMBING PIPING. PIPING FOUND NOT MATCHING LAYOUT OF THIS DRAWING SHALL BE REPORTED IMMEDIATELY TO INSPECTOR OF RECORD.
2. NO DEAD LEG ALLOWED; PIPE SHALL BE REMOVED ALL THE WAY TO THE BRANCH LINE,
3. PLUMBING SYSTEM SUPPLYING UPGRADE AREA ARE TO REMAIN IN SERVICE. VERIFY WITH FACILITIES MANAGEMENT OFFICE BEFORE SHUTTING DOWN SYSTEMS.
4. ALL PLUMBING FIXTURES IN THIS LEVEL TO REMAIN UNLESS OTHERWISE NOTED.
5. EXISTING PIPING USED FOR CONNECTING NEW PIPING SHALL BE DEBURRED AND CLEANED BEFORE JOINTS ARE MADE.
6. CONNECT HOT WATER PIPING TO EXISTING HOT WATER PIPING ABOVE CEILING. INSULATE ALL EXISTING AND NEW HOT WATER PIPING ABOVE CEILING, IN WALL AND FIXTURE SUPPLY.
7. ALL FIXTURES REQUIRING HOT WATER SUPPLY SHALL BE PIPED DOWN AND EXTENDED TO THE LEFT HAND SIDE SUPPLY CONNECTION OF THE FIXTURES.

KEY NOTES

1. CONNECT NEW HW & HWR PIPING TO EXISTING PIPING ABOVE CEILING.
2. REPLACE (E) S.O.V. WITH NEW BALANCING VALVE.

PLUMBING SECOND FLOOR PLAN

SCALE 1/16"=1'-0" 1

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HUMANSU P. SHAH No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

Drawing Title: PLUMBING SECOND FLOOR PLAN BUILDING 150

Approved: Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 150

Drawing Number: 150 P102

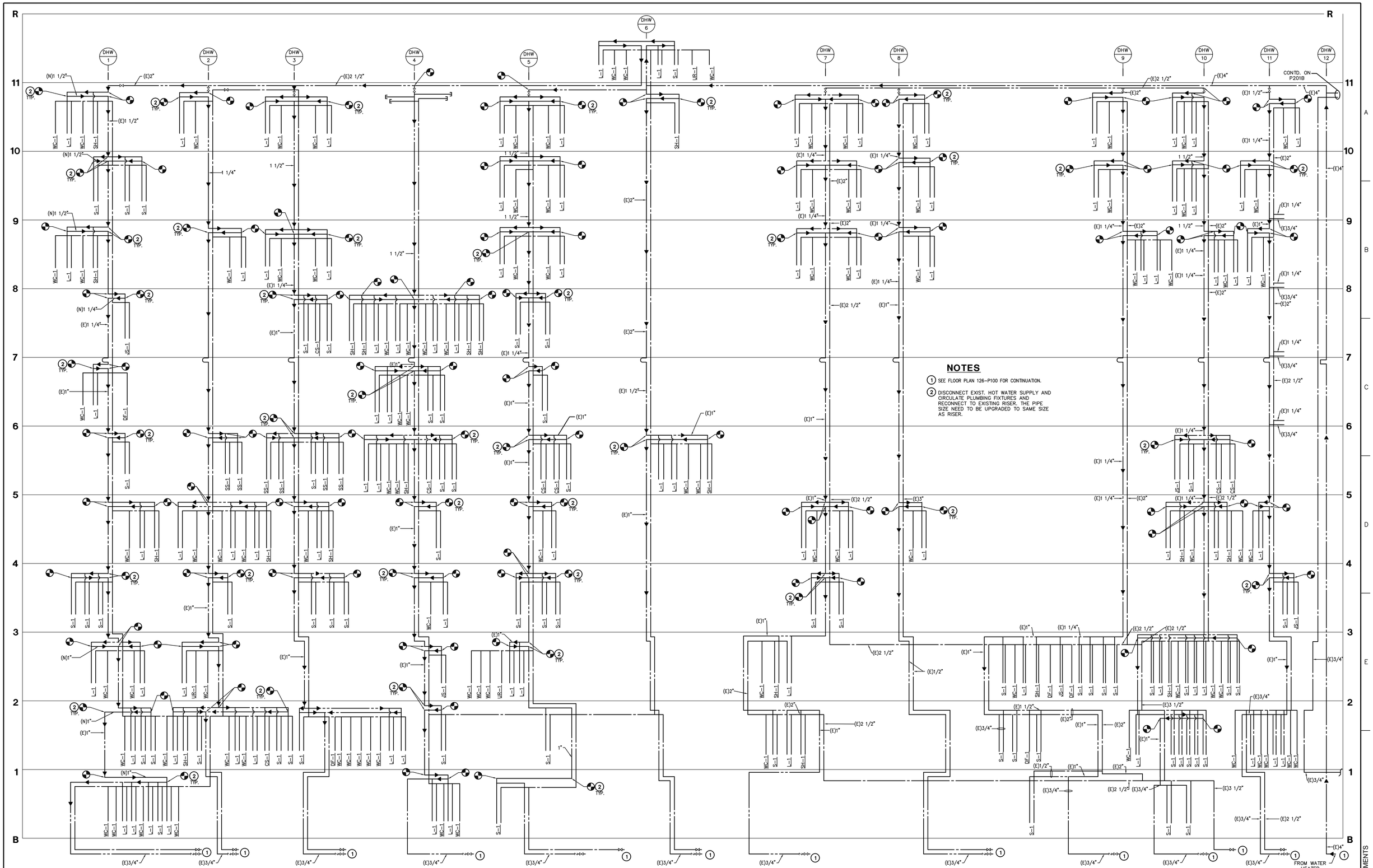
Dwg. 32 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



NOTES

1. SEE FLOOR PLAN 126-P100 FOR CONTINUATION.
2. DISCONNECT EXIST. HOT WATER SUPPLY AND CIRCULATE PLUMBING FIXTURES AND RECONNECT TO EXISTING RISER. THE PIPE SIZE NEED TO BE UPGRADED TO SAME SIZE AS RISER.

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HIMANSU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

DIRECTOR	DATE	CHIEF OF STAFF	DATE	CHIEF ENGINEER	DATE
ASSOCIATE DIRECTOR	DATE	CHIEF, RESEARCH	DATE	ASSISTANT CHIEF ENGINEER	DATE
ASSOCIATE DIRECTOR PCS/NE	DATE	SECURITY SURVEILLANCE COMMUNITY	DATE	SAFETY MANAGER	DATE

Drawing Title: BLDG 126 DOMESTIC COLD AND HOT WATER RISER DIAGRAM

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date	Checked	Drawn
JUNE 24, 2014	TS	HS

Project Number: 600-13-101

Building Number: 126 / 150

Drawing Number: P201A

Dwg. 33 of 37

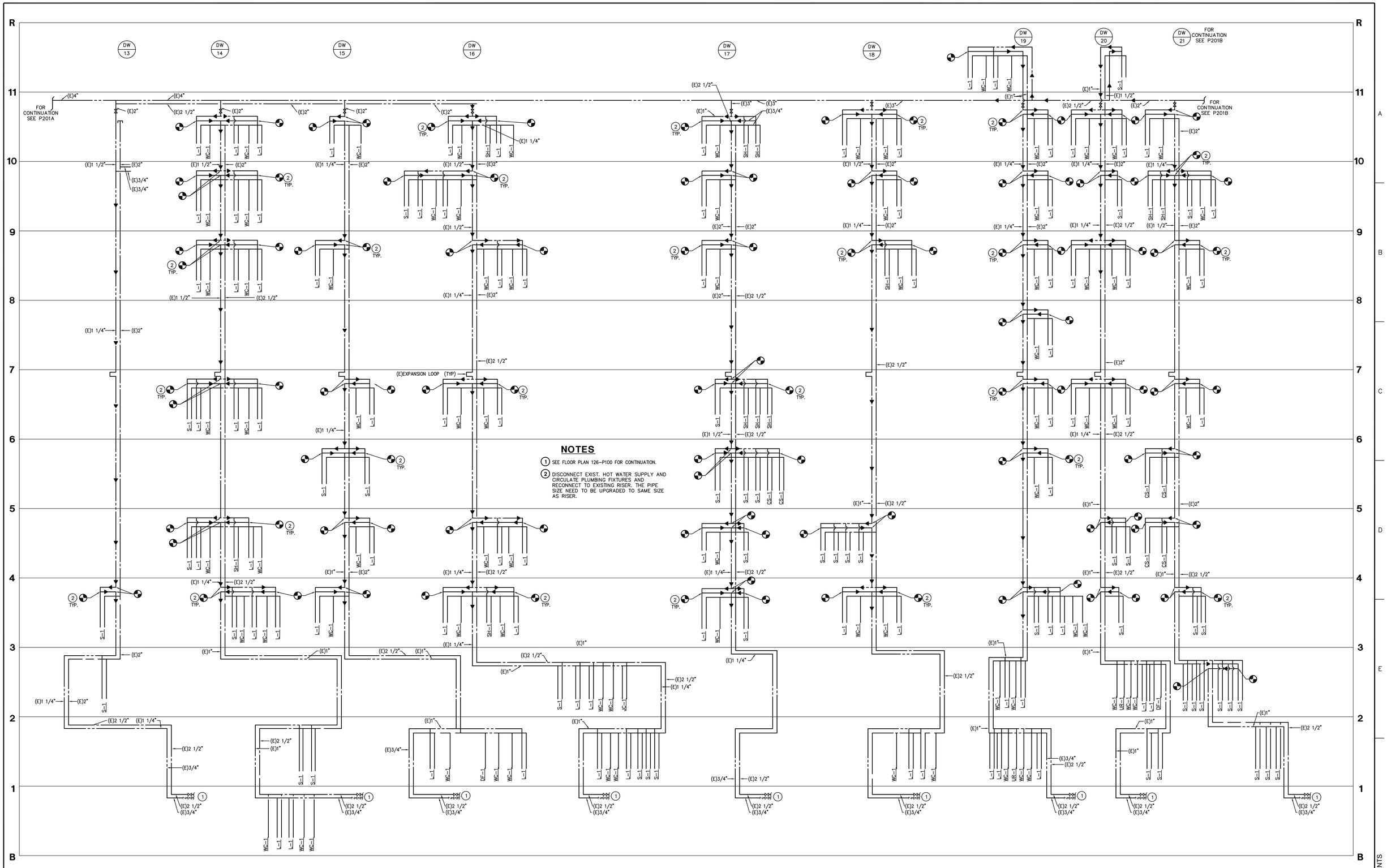
Office of Facilities Management

Department of Veterans Affairs

Revisions: Date

VA FORM 08-6231, OCT 1978

100% CONSTRUCTION DOCUMENTS



NOTES

1. SEE FLOOR PLAN 126-P100 FOR CONTINUATION.
2. DISCONNECT EXIST. HOT WATER SUPPLY AND CIRCULATE PLUMBING FIXTURES AND RECONNECT TO EXISTING RISER. THE PIPE SIZE NEED TO BE UPGRADED TO SAME SIZE AS RISER.

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HIMANSU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

	DATE		DATE		DATE
DIRECTOR		CHIEF OF STAFF		CHIEF ENGINEER	
ASSOCIATE DIRECTOR		CHIEF, RESEARCH		ASSISTANT CHIEF ENGINEER	
ASSOCIATE DIRECTOR PCS/NE		SECURITY SURVEILLANCE COMMUNITY		SAFETY MANAGER	

Drawing Title: BLDG 126 DOMESTIC COLD AND HOT WATER RISER DIAGRAM

Approved: Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date	Checked	Drawn
JUNE 24, 2014	TS	HS

Project Number: 600-13-101

Building Number: 126 / 150

Drawing Number: P201B

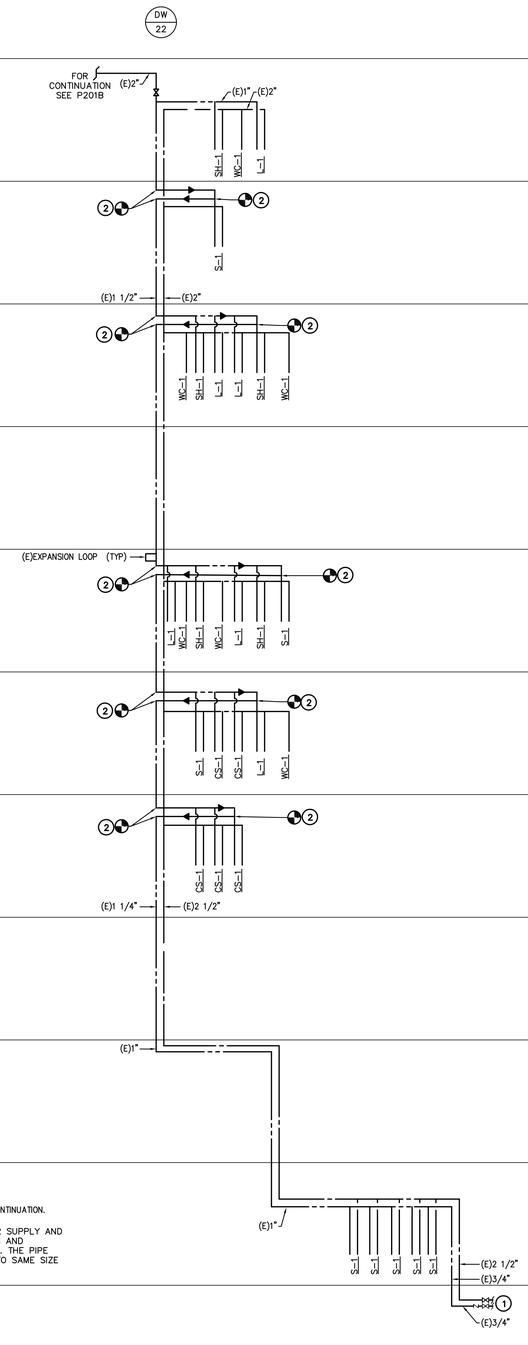
Dwg. 34 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



NOTES

1. SEE FLOOR PLAN 126-P100 FOR CONTINUATION.
2. DISCONNECT EXIST. HOT WATER SUPPLY AND CIRCULATE PLUMBING FIXTURES AND RECONNECT TO EXISTING RISER. THE PIPE SIZE NEED TO BE UPGRADED TO SAME SIZE AS RISER.

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HUMANSU P. SHAH No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

DIRECTOR	DATE	CHIEF OF STAFF	DATE	CHIEF ENGINEER	DATE
ASSOCIATE DIRECTOR	DATE	CHIEF, RESEARCH	DATE	ASSISTANT CHIEF ENGINEER	DATE
ASSOCIATE DIRECTOR PCS/NE	DATE	SECURITY SURVEILLANCE COMMUNITY	DATE	SAFETY MANAGER	DATE

Drawing Title: BLDG 126 DOMESTIC COLD AND HOT WATER RISER DIAGRAM

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Project Number: 600-13-101

Building Number: 126 / 150

Drawing Number: P201C

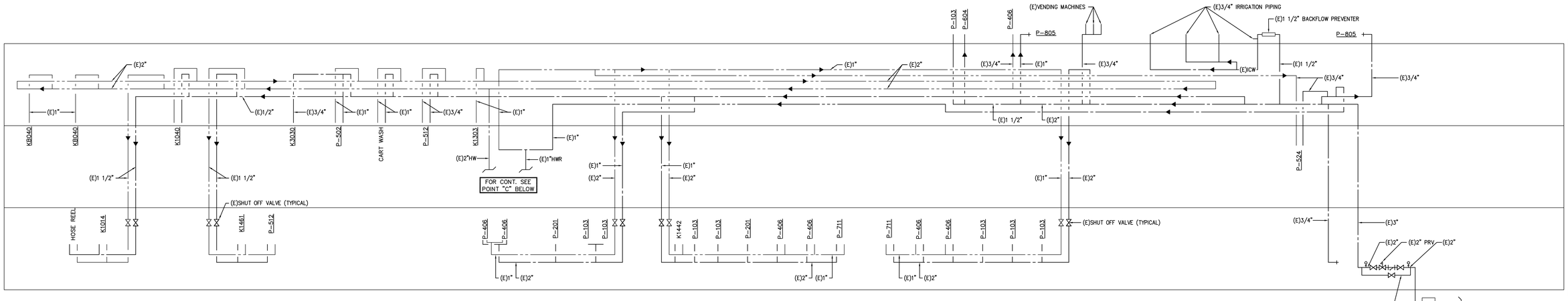
Dwg. 35 of 37

Office of Facilities Management

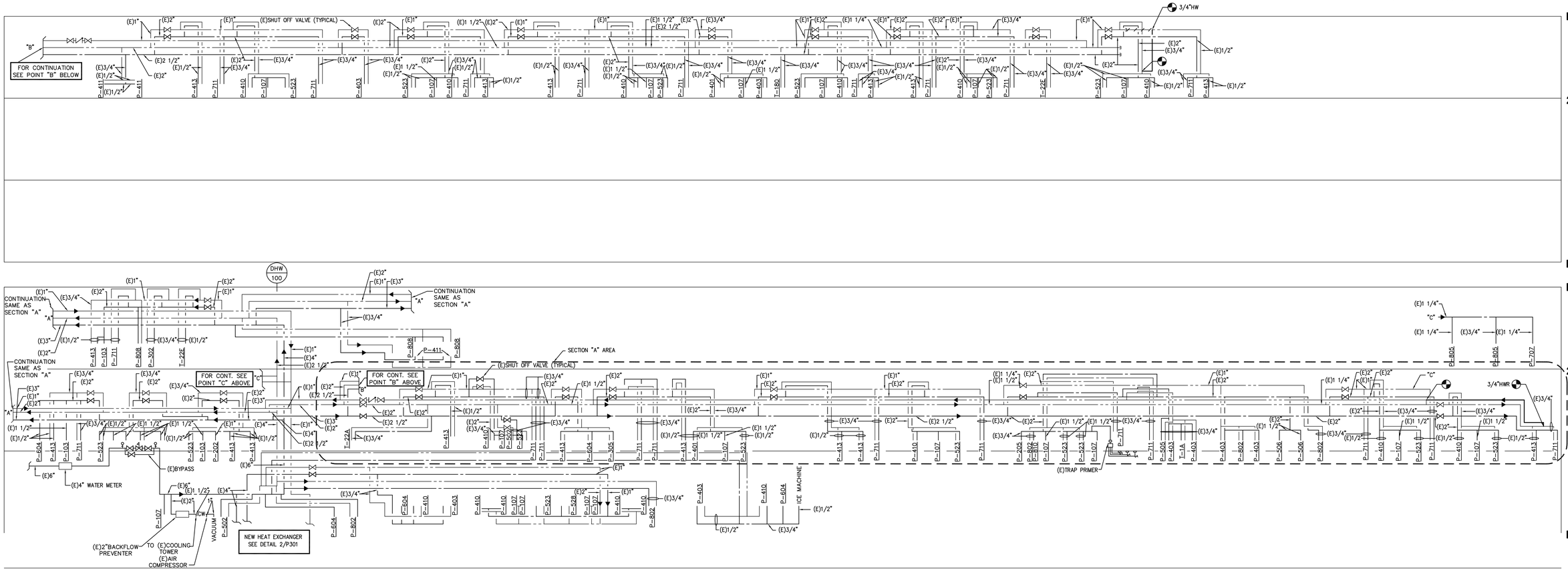
Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



BUILDING 150 - AREA C
DOMESTIC WATER RISER DIAGRAM



BUILDING 150 - AREAS A, B AND D
DOMESTIC WATER RISER DIAGRAM

Revisions	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER HIMANSU P. SHAH No. M25602 Exp. 9/30/14 MECHANICAL STATE OF CALIFORNIA

	DATE		DATE		DATE
DIRECTOR		CHIEF OF STAFF		CHIEF ENGINEER	
ASSOCIATE DIRECTOR		CHIEF, RESEARCH		ASSISTANT CHIEF ENGINEER	
ASSOCIATE DIRECTOR PCS/NE		SECURITY SURVEILLANCE COMMUNITY		SAFETY MANAGER	

Drawing Title: BLDG 150 DOMESTIC COLD AND HOT WATER RISER DIAGRAM

Approved: Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date	Checked	Drawn
JUNE 24, 2014	TS	HS

Project Number: 600-13-101

Building Number: 126 / 150

Drawing Number: P202

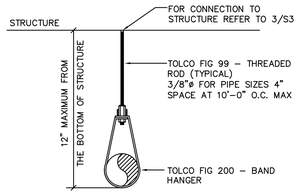
Dwg. 36 of 37

Office of Facilities Management

Department of Veterans Affairs

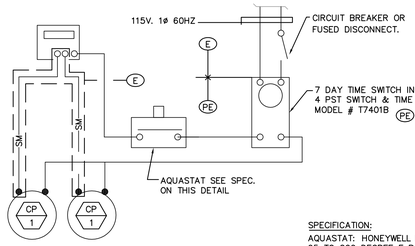
100% CONSTRUCTION DOCUMENTS

VA FORM 08-6231, OCT 1978



PIPE HANGER DETAIL

NOT TO SCALE | 10



SPECIFICATION:
AQUASTAT: HONEYWELL NO. L6006C 65 TO 200 DEGREE F RANGE, 5–30 DEGREE F ADJUSTABLE DIFFERENTIAL

(P) FURNISHED BY PLUMBER INSTALLED BY PLUMBER

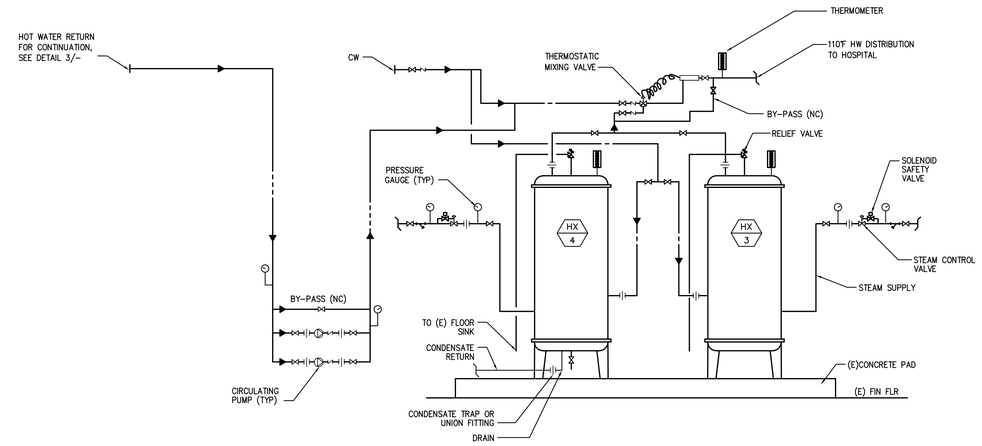
(E) FURNISHED AND INTALLED BY ELECTRICAL CONTRACTOR.

PUMP START/STOP AQUASTAT SETTINGS (DEGREE F):

PUMP #:	START	STOP
(2) CP–1	105	110

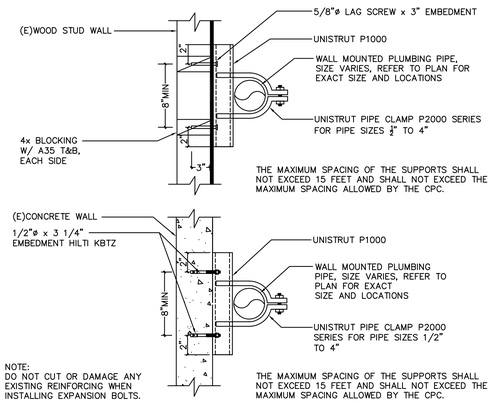
CLINICAL USE CP-1 WIRING DIAGRAM (TMVS 1 + 2)

NOT TO SCALE | 7



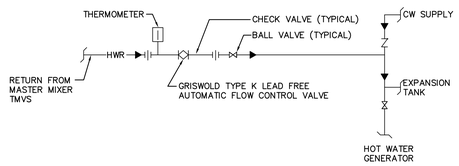
HEAT EXCHANGER DETAIL - BLDG 126

NOT TO SCALE | 1



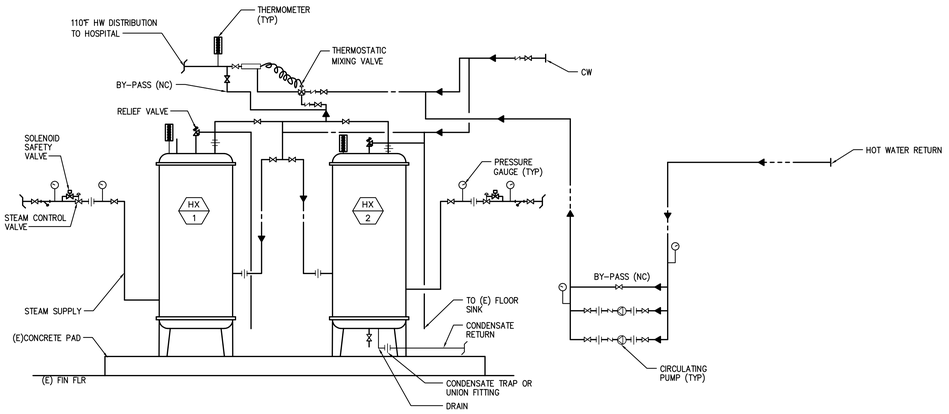
PIPE WALL SUPPORT - CONCRETE OR WOOD

NOT TO SCALE | 11



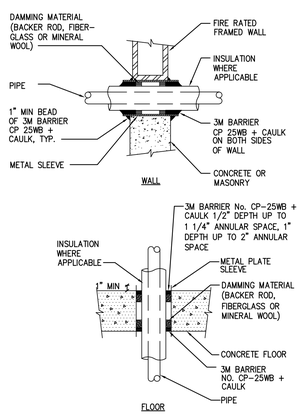
HWR FLOW CONTROL VALVE ASSEMBLY

NOT TO SCALE | 8



HEAT EXCHANGER DETAIL - BLDG 150

NOT TO SCALE | 2



SPECIFICATIONS:
PENETRATIONS IN FIRE RESTRICTIVE WALLS, PARTITIONS AND FLOORS WHERE PROTECTED OPENINGS ARE REQUIRED SHALL BE FIRE STOPPED USING APPROVED MATERIALS, SECURELY INSTALLED AND CAPABLE OF MAINTAINING THIER INTEGRITY AND PREVENTING THE MOVEMENT OF FLAMES AND/OR GASES THROUGH THE VOID SPACES BETWEEN PENETRATING MATERIALS AND WALLS, PARTITIONS AND FLOORS WHEN TESTED IN ACCORDANCE WITH ASTM STANDARD E–814 OR UL STANDARD 1479 (CBC SECTIONS 709.6, 709.7 & 714).

PROVIDE DESIGN DETAILS ON DRAWINGS DEPICTING APPROVED (LISTED) METHODS AND METHODS USED TO PROTECT PENETRATIONS WALLS, PARTITIONS AND FLOORS.

DESIGNS ARE LISTED BY UNDERWRITER'S LABORATORIES (FIRE RESISTANCE DIRECTORY) AND THE CALIFORNIA STATE FIRE MARSHAL (BUILDING MATERIAL LISTINGS). SPECIFIC DESIGN INFORMATION IS AVAILABLE FROM U.L OR THE PRODUCT MANUFACTURER.

NOTES:
PENETRATIONS SHALL HAVE A T & F RATING IF LOCATED IN OPEN FLOOR AREA, "F"ONLY REQUIRED IF CONTAINED WITHIN A WALL ASSEMBLY, CBC. SEC. 710.2.3

3M FIRE BARRIER PRODUCTS:
CALIFORNIA STATE FIRE MARSHAL LISTING No. 4485–941:100

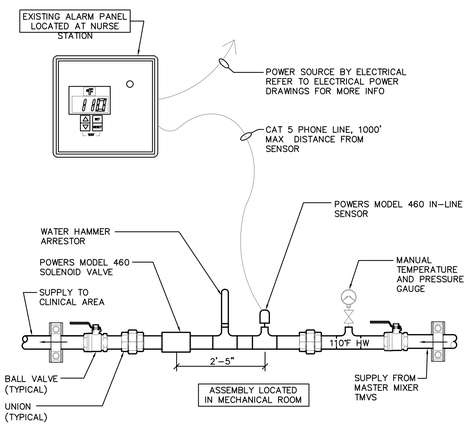
UNINSULATED PIPE:
U.L. DESIGN No. CAJ1001(CONC. WALL OR FLOOR)
U.L. DESIGN No. WL1001 (STUD WALL)

INSULATED PIPE:
U.L. DESIGN No. CAJ5000(CONC. WALL OR FLOOR)
U.L. DESIGN No. WL5001 (STUD WALL)

FIRESTOP ASSEMBLY FOR PIPE PENETRATIONS
(BOTH INSULATED & UN-INSULATED) (GENERAL F & T TO FIT RATING)

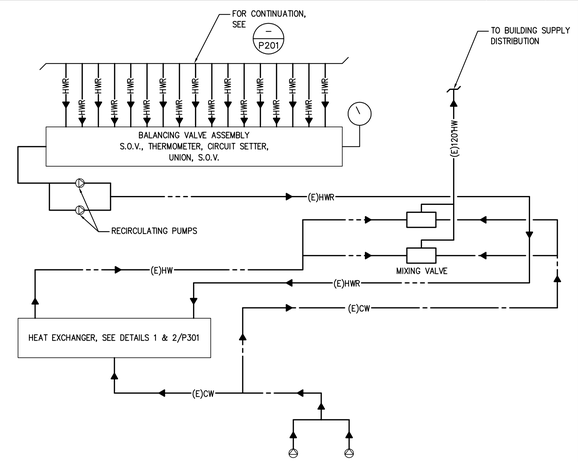
PIPE PENETRATION DETAIL

NOT TO SCALE | 9



HW ALARM PANEL AND AUTO SHUT DOWN

NOT TO SCALE | 6



BALANCING VALVE ASSEMBLY

NOT TO SCALE | 3

Revisions:	Date

ARCHITECT/ENGINEERS

Schwab Engineering & Management
A Certified SB/DVBE Firm
1000 E. Walnut Street, Suite 227, Pasadena, CA 91106
t: 888.900.3823 f: 626.463.2739 www.schwabeng.com

REGISTERED PROFESSIONAL ENGINEER SHANSU P. SHAH No. M25602 Exp. 6/30/14 MECHANICAL STATE OF CALIFORNIA

	DATE		DATE		DATE
DIRECTOR		CHIEF OF STAFF		CHIEF ENGINEER	
ASSOCIATE DIRECTOR		CHIEF, RESEARCH		ASSISTANT CHIEF ENGINEER	
ASSOCIATE DIRECTOR PCS/NE		SECURITY SURVEILLANCE COMMUNITY		SAFETY MANAGER	

Drawing Title: PLUMBING DETAILS

Approved Project Director

Project Title: BUILDING 126/150 REPLACE HOT WATER SYSTEM

Project Number: 600-13-101

Building Number: 126 / 150

Location: 5901 EAST SEVENTH ST. LONG BEACH, CA 90822

Date: JUNE 24, 2014 | Checked: TS | Drawn: HS

Drawing Number: P301

Dwg. 37 of 37

Office of Facilities Management

Department of Veterans Affairs

100% CONSTRUCTION DOCUMENTS

VA FORM 08–6231, OCT 1978