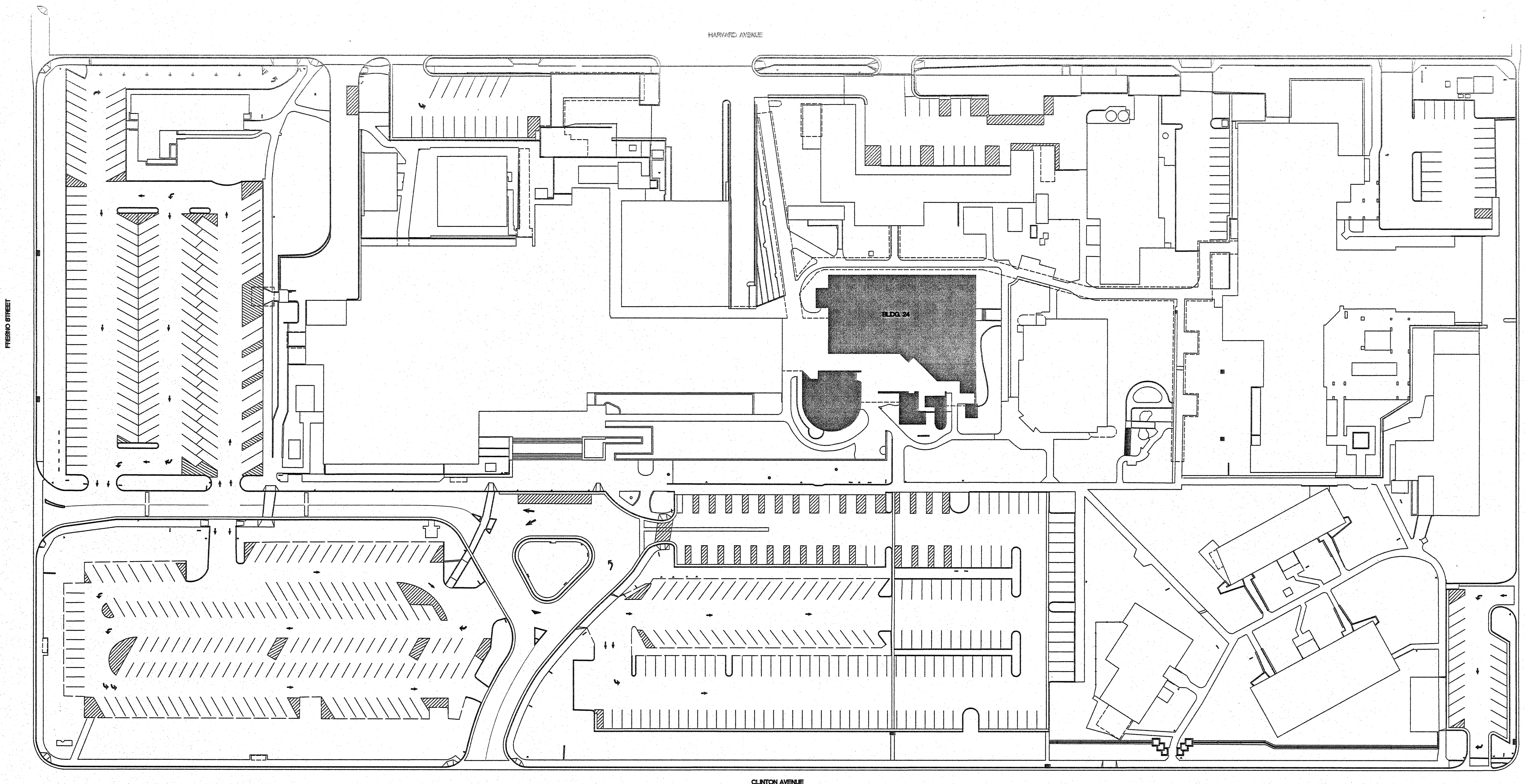


three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

A
B
C
D
E
F



1 FIRE SPRINKLER REFERENCE SITE PLAN
1"=50'-0"

FIRE PROTECTION SHEET INDEX	
SHEET NO.	SHEET TITLE
FP001	FIRE SPRINKLER SITE PLAN, NOTES
FP002	FIRE SPRINKLER CONSTRUCTION PHASING PLAN
FP100	BASEMENT FIRE SPRINKLER PIPING PLAN
FP101	FIRST FLOOR FIRE SPRINKLER PIPING PLAN
FP102	SECOND FLOOR FIRE SPRINKLER PIPING PLAN
FP103	THIRD FLOOR FIRE SPRINKLER PIPING PLAN
FP104	PENTHOUSE FIRE SPRINKLER PIPING PLAN
FP201	FIRST FLOOR FIRE SPRINKLER REFLECTED CEILING PLAN
FP202	SECOND FLOOR FIRE SPRINKLER REFLECTED CEILING PLAN
FP203	THIRD FLOOR FIRE SPRINKLER REFLECTED CEILING PLAN
FP301	FIRE SPRINKLER DETAILS
FP302	FIRE SPRINKLER BUILDING CROSS SECTION

SCOPE OF WORK	
INSTALL NEW WET PIPE FIRE SPRINKLER SYSTEM IN EXISTING VETERANS ADMINISTRATION BUILDING 24. WORK TO BEGIN AT CONNECTION TO (E) BUILDING WATER SYSTEM AS NOTED ON PP PLANS.	
OWNER: US DEPT. OF VETERANS AFFAIRS	
CODE ANALYSIS: BUILDING AREA: FIRST FLOOR: 11,514 SQ. FT. SECOND FLOOR: 11,242 SQ. FT. THIRD FLOOR: 13,193 SQ. FT. TOTAL BUILDING AREA: 43,167 SQ. FT. BUILDING HEIGHT: 44'-10" CONSTRUCTION TYPE: II-B OCCUPANCY TYPE: A-1, A-3, B	

- GENERAL NOTES
- THIS IS A DESIGN BUILD PROJECT. THESE PLANS ARE FOR REFERENCE ONLY. TO ADDRESS THE SCOPE OF WORK, THE SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH DEPARTMENT OF VETERANS AFFAIRS STANDARDS, NFPA 13, 2010 EDITION, AND THE CITY OF FRESNO FIRE DEPARTMENT REQUIREMENTS.
 - SYSTEM HYDRAULIC DESIGN IS FOR LIGHT HAZARD OR ORDINARY HAZARD AS REQUIRED.
 - WATER SUPPLY INFORMATION: THIS FACILITY IS PROVIDED WITH A FIRE PUMP RATED AT: 500 GPM @ 120 PSI
 - ALL THREADED PIPE 2" AND 3" SHALL BE SCHEDULE 40, BLACK STEEL, ANSI/ASTM A106.
 - ALL GROOVED AND WELDED PIPE 2-1/2" - 6" SHALL BE SCHEDULE 10, BLACK STEEL, ANSI/ASTM A106.
 - THREADED FITTINGS SHALL BE CLASS 125 THREADED CAST IRON, ANSI B16.4.
 - ALL THREADED PIPE AND FITTINGS SHALL HAVE THREADS CUT TO ANSI/ASME STANDARD B1.20.1.
 - ALL PIPE WELDING SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF AWS D10.9 (STANDARD FOR BUILDING SERVICE PIPING) LEVEL AR-3.
 - ALL PIPE SHALL BE EARTHQUAKE BRACED AS OUTLINED IN NFPA 13, 2010 EDITION, SECTION 9.3.
 - ALL HANGER COMPONENTS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, 2010 EDITION, SECTION 9.1 AND 9.2.
 - ELECTRICAL WIRING TO BE BY ELECTRICAL CONTRACTOR.
 - ANY PAINTING OF THE PIPE THAT MAY BE REQUIRED SHALL BE BY PAINTING CONTRACTOR.
 - ALL NEW PIPING IS TO BE HYDROSTATICALLY TESTED TO CODE FOR A PERIOD NOT LESS THAN TWO HOURS.
 - FLOW AND TAPPER SWITCHES ARE TO BE PROVIDED ON THE FIRE SPRINKLER SYSTEM. ALL ELECTRICAL WIRING TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
 - MAIN FIRE PANEL VALVE MONITORING, WATER FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY. CLASS 1, MANUAL WET STANDPIPES ARE EXISTING. A NEW SUPPLY SHALL BE INSTALLED TO SUPPLY THE FIRE SPRINKLER SYSTEMS.

- OVERHEAD FIRE SPRINKLER NOTES
- NFPA 13 (2010) SEC. 10.10.2.1 UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO THE OVERHEAD FIRE SPRINKLER PIPING SYSTEM (WITNESSED BY THE RESIDENT ENGINEER AS DETERMINED BY THE DEPARTMENT OF VETERANS AFFAIRS).
 - NFPA 13 (2010) SEC. 6.3.4.2 CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS, FLOORS, PLATEWAYS AND FOUNDATIONS INCLUDING DRAINS SUCH THAT THE DIAMETER OF THE HOLES IS 2 INCHES LARGER THAN THE PIPE FOR 1 INCH TO 3-1/2 INCH NOMINAL AND 4 INCHES LARGER THAN THE PIPE FOR PIPE 4 INCH NOMINAL AND LARGER.
 - NFPA 13 (2010) SEC. 24.1 ALL INTERIOR PIPING AND APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (WITNESSED BY THE INSPECTOR OF RECORD.)
 - NFPA 13 (2010) SEC. 6.2.3.9 PROVIDE SPARE SPRINKLER HEAD CABINET, WRENCH, AND NO FEWER THAN A TOTAL OF 6 SPARE SPRINKLER HEADS MATCHING THE TYPES AND TEMPERATURE RATINGS IN EACH PROTECTED BUILDING FOR SYSTEMS WITH LESS THAN 3000 SPRINKLERS AND 12 SPARE SPRINKLERS FOR SYSTEMS WITH 3000-10000 SPRINKLERS.
 - NFPA 13 (2010) SEC. 6.3.6 PROVIDE RESTRAINT OF BRANCH LINES BY USING ONE OF THE FOLLOWING:
 - A LISTED SWAY BRACE ASSEMBLY.
 - A URAPAROUND U-HOOK SATISFYING THE REQUIREMENTS OF 6-4.5.3, EXCEPTION NO. 3.
 - NO. 12, 440-LB WIRE INSTALLED AT LEAST 45 DEGREES FROM THE VERTICAL FANE AND ANCHORED ON BOTH SIDE OF THE PIPE.
 - A HANGER NO LESS THAN 45 DEGREES FROM VERTICAL, INSTALLED WITHIN 6 INCHES OF THE VERTICAL HANGER ARRANGED FOR RESTRAINT AGAINST UPWARD MOVEMENT. PROVIDED IT IS UTILIZED SUCH THAT LIRE DOES NOT EXCEED 3000 WHERE THE ROD SHALL EXTEND TO THE PIPE OR HAVE A SURGE CLIP INSTALLED.
 - NFPA 13 (2010) SEC. 5-10.2 SPRINKLER FLOW SWITCHES SHALL BE TESTED BY IOR TO CONFIRM THAT WHEN THE INSPECTORS' TEST VALVE IS ACTIVATED AND ALARM WILL SOUND IN NO LESS THAN 20 SECONDS AND NOT MORE THAN 90 SECONDS.
 - SEC. 9.2.3.4.1 MAIN FIRE ALARM PANEL MONITORING AND WATER FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.
 - NFPA 13 (2010) SEC. 6.9 FLOW SWITCHES SHALL BE CONNECTED TO A 10 INCH OUTSIDE ALARM BELL AT THE FIRE SPRINKLER RISER. AN APPROVED IDENTIFICATION SIGN SHALL BE PROVIDED FOR THE OUTSIDE ALARM BELL. THE SIGN IS TO READ "SPRINKLER FIRE ALARM WHEN BELL RINGS CALL FIRE DEPARTMENT".
 - NFPA 13 (2010) SEC. 24.5 HYDRAULIC CALCULATION DESIGN DATA PLACARD IS TO BE ATTACHED TO THE FIRE SPRINKLER SYSTEM RISER.
 - NFPA 13 (2010) SEC. 24.1 THE FIRE SPRINKLER CONTRACTOR (C-16) SHALL COMPLETE AND SIGN THE CONTRACTORS MATERIAL AND TEST CERTIFICATE FOR THE OVERHEAD FIRE SPRINKLER SYSTEM USING THE FORM IN FIGURE 24.1. THIS FORM SHALL BE GIVEN TO THE CONTRACTOR WHO WILL TURN IT IN FOR DEPARTMENT OF VETERANS AFFAIRS RECORDS.
 - NFPA 13 (2010) SEC. 24.2.3.4 THE MAIN DRAIN VALVE SHALL BE OPENED AND REMAIN OPEN UNTIL THE SYSTEM PRESSURE STABILIZES. THE STATIC AND RESIDUAL PRESSURES SHALL BE RECORDED ON THE CONTRACTORS MATERIAL AND TEST CERTIFICATE. THE TEST IS TO BE WITNESSED BY THE INSPECTOR OF RECORD.
 - OR SPRINKLER UPRIGHTS AND DROPS OVER 4 FEET LONG SHALL BE RESTRAINED TO PREVENT DAMAGE TO PIPING OR TO AND FROM ADJACENT BUILDING ELEMENTS.

Revisions

Date

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Drawing Title
FIRE SPRINKLER REFERENCE SITE PLAN, NOTES

Approved Project Director

Drawing Title
BUILDING 24 SEISMIC CORRECTION AND ADDITION

Location
VAMC FRESNO, CA

Date
JANUARY 31, 2012

Checked
SA

Drawn
ES

Project Number
570-215

Building Number
24

Drawing Number
FP001

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Office of Construction and Facilities Management