

Remote Area: BLDG 2442 BOAT STORAGE

CALCULATION DESIGN CRITERIA	
STANDARD	NFPA #13 - Ord Hazard Gr 2
OCCUPANCY CLASS	New Business
MAX. COVERAGE/HEAD	101.25 SF
DENSITY	20 GPM/FF for 3900 SF
SPRINKLER	TY-FRB
ORIFICE	1 1/2" K= 8.0
WATER FLOW INFORMATION:	
STATIC	72.0 PSI
RESIDUAL	56.0 PSI
FLOW	1100 GPM
AT CITY CONNECTION SYSTEM REQUIRES	
160.33 GPM @ 52.310 PSI	
956.90 GPM @ 52.151 PSI	

NO HOSE INCLUDED (SEE NOTE #2)

Remote Area: BELOW PLATFORM

CALCULATION DESIGN CRITERIA	
STANDARD	NFPA #13 - Ord Hazard Gr 2
OCCUPANCY CLASS	New Business
MAX. COVERAGE/HEAD	90.0 SF
DENSITY	20 GPM/FF for 7 Spkers per NFPA 13:11.2.3.4.2
SPRINKLER	TY-FRB
ORIFICE	1/2" K= 5.6
WATER FLOW INFORMATION:	
STATIC	72.0 PSI
RESIDUAL	56.0 PSI
FLOW	1100 GPM
AT CITY CONNECTION SYSTEM REQUIRES	
160.33 GPM @ 52.310 PSI	
956.90 GPM @ 52.151 PSI	

NO HOSE INCLUDED (SEE NOTE #2)

GROOVE COUPLINGS ARE RIGID UNLESS NOTE "FLEXIBLE GC"

BOAT STORAGE BLDG. 2442 PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES

- SCOPE OF WORK
SIMPLEXGRINNELL TO PROVIDE TWO NEW FIRE SPRINKLER SYSTEM (1) FOR THE NEW OPERATIONS BLDG #2440 & THE BOAT MAINTENANCE BLDG #2441, AND (1) FOR THE BOAT STORAGE BLDG #2442.
- BASIS OF DESIGN:
LIGHT HAZARD AREAS - DESIGN DENSITY: .10 GPM/SQ. FT. OVER 3000 SQ. FT.
ORDINARY HAZARD GROUP 1 - DESIGN DENSITY: .15 GPM/SQ. FT. OVER 3000 SQ. FT.
ORDINARY HAZARD GROUP 2 - DESIGN DENSITY: .20 GPM/SQ. FT. OVER 3000 SQ. FT. (EXCEPT AS NOTED - BELOW PLATFORM)
AREA HAS BEEN INCREASED BY 30% WHERE ROOF SLOPE EXCEEDS 2:12 AS PER NFPA 13 11.2.3.2.4.
AS DIRECTED BY THE FPE FOR NAVFAC SOUTHEAST, THE HOSE ALLOWANCE HAS BEEN DELETED FROM ALL CALCULATIONS. THE 500 GPM HOSE ALLOWANCE REQUIRED BY UFC 3-600-01, TABLE 4-1, PUSHES THE DEMAND OVER THE SUPPLY CURVE.
- PIPE AND FITTINGS
1 1/2" AND SMALLER PIPE TO BE THREADED BLACK SCH 40 WITH BLACK C.I. SCREW FITTINGS.
2" AND LARGER PIPE TO BE GROOVED BLACK SCH 10 WITH GROOVED FITTINGS & COUPLINGS AND WELDED OUTLETS
SPRINKLER DROPS TO BE "FLEXHEAD" TYPE DROPS. SPRINKLERS TO BE CENTER OF TILE.
- HANGERS
ALL HANGERS AND SUPPORTS TO CONFORM TO NFPA 13 AND PIPE MANUFACTURERS RECOMMENDATIONS.
- FIRE CAULKING
ALL PENETRATIONS THROUGH FIRE RATED WALLS ARE TO BE SEALED WITH FIRE CAULK TO MAINTAIN THE FIRE RATING.
- SPRINKLER SYSTEMS SHALL INCLUDE EARTHQUAKE PROTECTION PER D401001 1.2. SEE SH # FP-5 FOR DETAILS & NOTES.

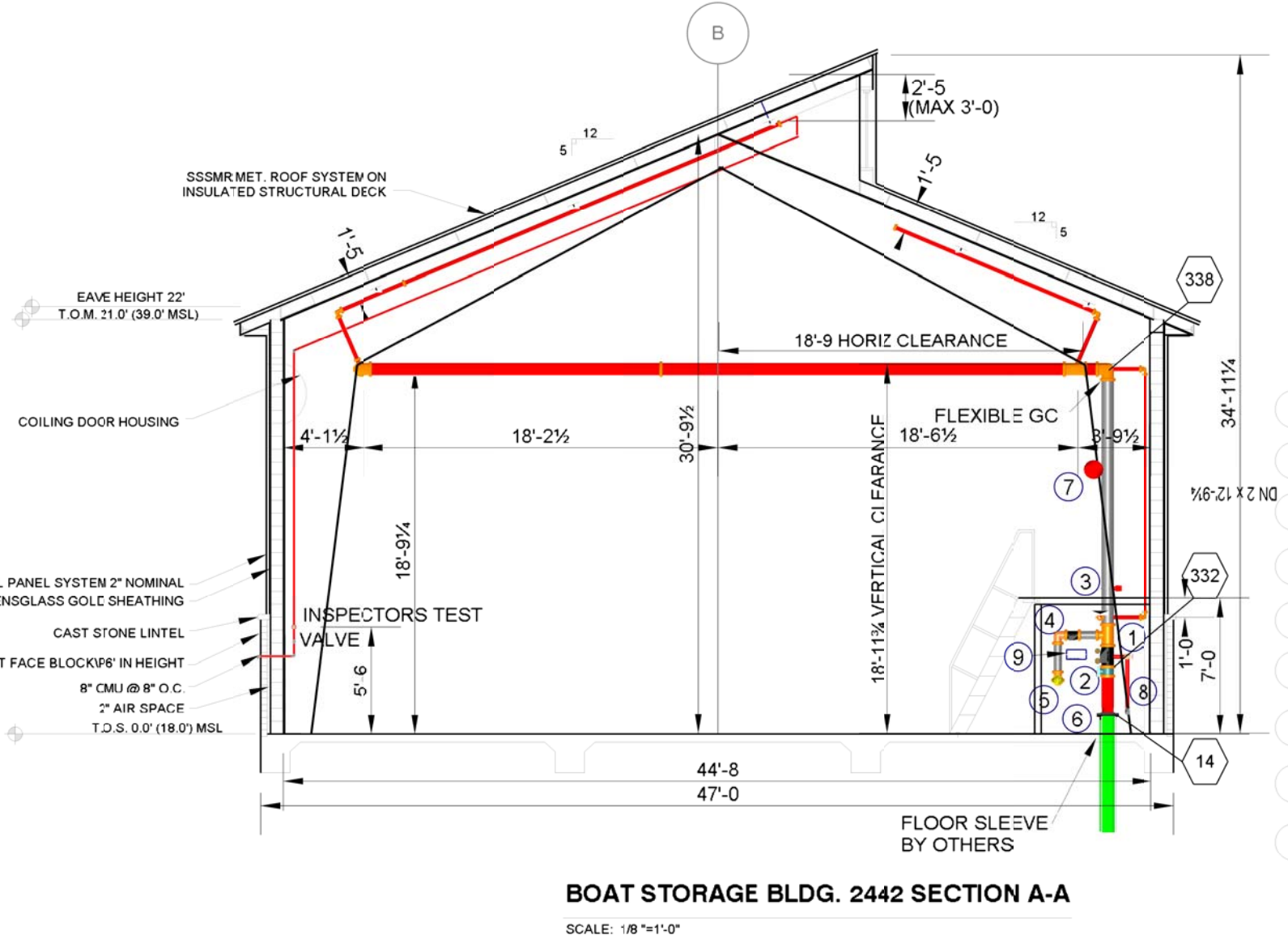
ALL MATERIAL TO BE AMERICAN MADE

RISER EQUIPMENT LEGEND

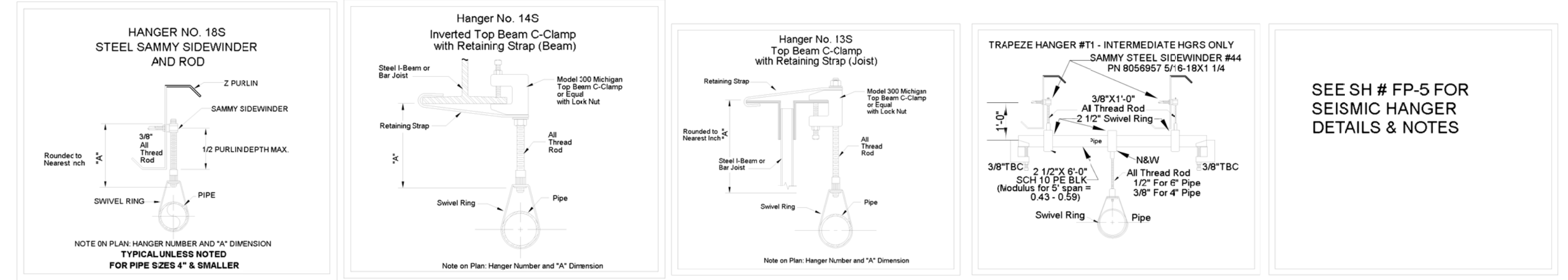
- 6" RELIABLE MODEL G RIGHT-CHECK RISER VALVE
- 6" GROOVED BUTTERFLY VALVE W/ TAMPER SWITCH
- 6" FLOW SWITCH
- 4" TYCO MODEL CV-1F CHECK VALVE
- 4" X 2 1/2" X 2 1/2" FIRE DEPARTMENT CONNECTION NST
- 6" X 1 1/2" SCR FLANGE
- 24V ELECTRIC BELL OUTSIDE 6"
- 2" DRAIN & ITC TO OUTSIDE
- 6-HEAD SPRINKLER CABINET

NEW SPRINKLERS								
TYPE	SIN	K=	ORIFICE	TEMP	FINISH	CANOPY	SYMBOL	QTY
TYCO TY-FRB QR	TY4131	8.0	17/32"	200 F	BRASS	UPRIGHT	●	80
TYCO TY-FRB QR	TY4131	8.0	17/32"	286 F	BRASS	UPRIGHT	●	10
TYCO TY-FRB QR	TY3131	5.6	1/2"	200 F	BRASS	UPR W/G1S1*	◆	12
TOTAL THIS SHEET								102

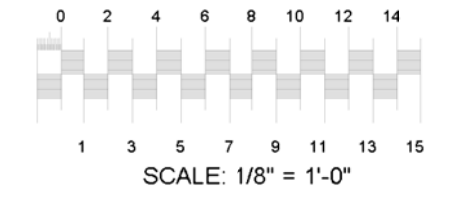
* TYCO G1/S1 GUARD WITH SHIELD



BOAT STORAGE BLDG. 2442 SECTION A-A
SCALE: 1/8"=1'-0"



SEE SH # FP-5 FOR SEISMIC HANGER DETAILS & NOTES



NOTE: ALL HANGERS TO BE # 18S U.O.N.

REVISED PER URS COMMENTS RECD 8/17/09	08/26/09	DATE
REVISED PER LATEST DRAWINGS	07/02/09	DATE
REVISED PER URS COMMENTS & SEISMIC DESIGN	06/26/09	DATE
REVISED PER FPE COMMENTS	06/08/09	DATE

SYMBOL DESCRIPTION

tyco Fire & Security
SimplexGrinnell
5800 JEFFERSON HWY., STE A
HARAHAN, LOUISIANA 70123

NAVAFAC SOUTHEAST
JOHN C. STENNIS SPACE CENTER, MISSISSIPPI
SOF RIVERINE AND COMBATANT CRAFT OPERATIONS FACILITY
BOAT STORAGE BLDG 2442

DEPARTMENT OF THE NAVY
NAVFAC ENGINEERING COMMAND
NAVFAC SOUTHEAST

CODE ID: NO. 80091 SIZE: D
SCALE: 1/8" = 1'-0"
MAX/MO NO.
STA. PROJ. NO.
WORK ORDER NO.
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
SHEET OF
SIMPLEXGRINNELL SH #FP-2
SG JOB # 269-941989101

DRAWING REVISION: 01 JAN 2009
PLOTTED: 14:04:49 08/26/09
FILE: FP-2 BLDG 2442 R4

REVDATE: