

A
three inches = one foot
B
one and one half inches = one foot
C
one inch = one foot
D
three quarters inch = one foot
E
one half inch = one foot
F
three eighths inch = one foot
G
one eighth inch = one foot

SPRINKLER SYSTEM PROJECT NOTES:

- THE SCOPE OF WORK SHALL BE TO INSTALL AN NEW AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE NEW WAREHOUSE BUILDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SHOP DRAWINGS AND FOR FURNISHING AND INSTALLING ALL MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
 - ALL REFERENCES TO THE AUTHORITY HAVING JURISDICTION (AHJ) SHALL MEAN THE DEPARTMENT OF VETERANS AFFAIRS.
 - ALL REFERENCES TO THE ENGINEER SHALL MEAN KOFFEL ASSOCIATES, INC.
 - ALL REFERENCES TO THE OWNER SHALL MEAN THE DEPARTMENT OF VETERANS AFFAIRS.
 - INSTALLATION OF ALL SPRINKLER AND FIRE PUMP SYSTEM PIPING SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2007 EDITION
 - NFPA 20, STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION, 2007 EDITION
 - THE DEPARTMENT OF VETERAN AFFAIRS, FIRE PROTECTION DESIGN MANUAL, FOURTH EDITION (VAFPM)
 - THE MANUFACTURER'S REQUIREMENTS AND APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
- ALL REFERENCES TO NFPA 13 AND 20 SHALL MEAN THE 2007 EDITIONS, UNLESS SPECIFICALLY NOTED OTHERWISE.
- SPRINKLER SPACING AND HYDRAULIC DESIGN CRITERIA SHALL BE AS SPECIFIED BY NFPA 13 FOR THE HAZARD PROTECTED. THE FOLLOWING GENERAL CRITERIA APPLY:

OFFICES/CORRIDORS/RESTROOMS -- LIGHT HAZARD 0.10 GPM/FT OVER 1,500 SQ. FT., 100 GPM HOSE STREAM ALLOWANCE

WAREHOUSE AND PHARMACY CACHE -- ORDINARY HAZARD, GROUP 2 0.20 GPM/SQ. FT. OVER 1,500 SQ. FT., 250 GPM HOSE STREAM ALLOWANCE

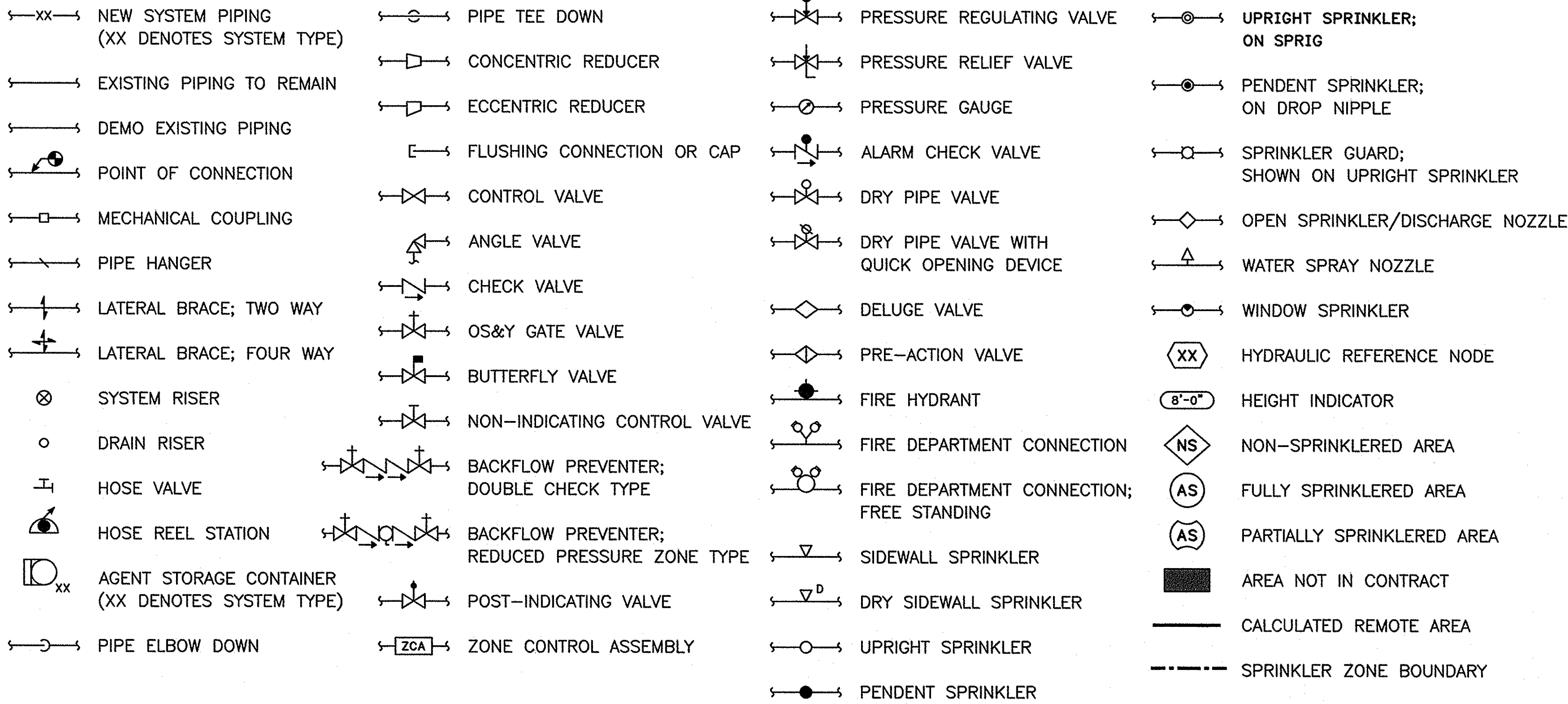
PER NFPA 13, A REDUCTION IN THE MINIMUM OPERATING AREA IS PERMITTED FOR WET-PIPE SYSTEMS WHEN QUICK RESPONSE SPRINKLERS ARE UTILIZED.
 - ANY MODIFICATIONS TO APPROVED SHOP DRAWINGS SHALL BE COORDINATED WITH DEPARTMENT OF VETERANS AFFAIRS.
 - ALL MATERIALS SHALL BE LISTED BY UNDERWRITERS LABORATORIES, INC. AND BE FACTORY MUTUAL APPROVED FOR USE ON COMMERCIAL FIRE PROTECTION SYSTEMS.
 - THE FOLLOWING WATER SUPPLY DATA IS PROVIDED:

STATIC PRESSURE -- 60 PSI (HYDRANT BY BLDG 52)
RESIDUAL PRESSURE -- 35 PSI
FLOW -- 690 GPM (HYDRANT BY BLDG 9)
DATE OF TEST -- JANUARY 2008
SEE DRAWING GS-104 FOR HYDRANT LOCATIONS.
 - ALL 1" TO 2" PIPE SHALL BE SCHEDULE 40, BLACK STEEL MEETING ASTM A53 SPECIFICATIONS. ALL SCHEDULE 40 PIPE SHALL BE THREADED. THREADING SHALL MEET ASME B1.20.1 SPECIFICATIONS.
 - PIPE SIZES OF 2-1/2" AND LARGER SHALL BE SCHEDULE 10, BLACK STEEL MEETING ASTM A135 OR A795 SPECIFICATIONS. ALL SCHEDULE 10 PIPE SHALL BE CONNECTED WITH LISTED ROLL GROOVED COUPLINGS. ALL SCHEDULE 10 PIPING SHALL BE GROOVED IN ACCORDANCE WITH THE MANUFACTURER'S LISTINGS.
- PIPE FITTINGS SHALL INCLUDE:

THREADED FITTINGS FOR SCHEDULE 40 PIPE SHALL BE MALLEABLE IRON CLASS 150 AND MEET ASTM B16.3.

ROLL GROOVED FITTINGS FOR SCHEDULE 10 PIPE SHALL BE UL LISTED. COUPLING SHALL COMPLY WITH ASTM A536, AND A183 SPECIFICATIONS. ALL COMPONENTS SHALL BE FROM A SINGLE MANUFACTURER.
 - ALL PORTIONS OF THE SPRINKLER SYSTEMS SHALL BE DRAINABLE TO A LOW-POINT DRAIN. SIGNS SHALL BE PROVIDED TO INDICATE LOW POINT DRAINS.
 - UPON COMPLETION OF THE SYSTEM, HYDROSTATIC TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH NFPA 13 AND WITNESSED BY THE DEPARTMENT OF VETERANS AFFAIRS.
 - ALL SPRINKLER WORK SHALL BE INSPECTED BY THE DEPARTMENT OF VETERAN AFFAIRS OR THEIR CHOSEN REPRESENTATIVE FOR COMPLIANCE WITH NFPA 13.
 - ALL HANGERS SHALL BE U.L. LISTED FOR USE WITH SPRINKLER SYSTEMS. HANGER INSTALLATION AND SPACING SHALL BE IN ACCORDANCE WITH NFPA 13.
 - REFER TO THE PROJECT SPECIFICATIONS FOR SPRINKLER TYPE AND FINISH.
 - THE SPRINKLER SYSTEM SHALL BE MONITORED BY THE FIRE ALARM CONTROL PANEL FOR ALARM, TROUBLE, AND SUPERVISORY CONDITIONS PER NFPA 72. REFER TO THE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.
 - THE SPRINKLER CONTRACTOR SHALL FURNISH AND INSTALL A NEW ELECTRIC DRIVE FIRE PUMP TO SUPPLEMENT THE AVAILABLE MUNICIPAL WATER SUPPLY. CONNECTION SHALL BE MADE TO THE NEW 6-INCH FIRE SERVICE IN THE FIRE PUMP ROOM. PROVIDE ALL FIRE PUMP EQUIPMENT INCLUDING CONTROLLERS, JOCKEY PUMP, SENSING LINES, TEST HEADER, AND APPURTENANCES AS REQUIRED BY NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION, AND THE MANUFACTURER'S REQUIREMENTS.
 - A FULL ACCEPTANCE TEST OF THE FIRE PUMP INSTALLATION SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH NFPA 20. THE CONTRACTOR SHALL ARRANGE, AT THEIR EXPENSE, FOR A REPRESENTATIVE OF THE FIRE PUMP MANUFACTURER AND FIRE PUMP CONTROLLER MANUFACTURER TO BE PRESENT AT THE FINAL ACCEPTANCE TEST. THE FINAL ACCEPTANCE TEST SHALL BE WITNESSED BY THE DEPARTMENT OF VETERAN AFFAIRS.
 - ALL NECESSARY CONNECTIONS TO THE FIRE ALARM SYSTEM SHALL BE MADE BY AND COORDINATED WITH THE FIRE ALARM CONTRACTOR. SYSTEM ACCEPTANCE TESTS SHALL BE CONDUCTED BY THE FIRE ALARM CONTRACTOR, AND WITNESSED BY THE DEPARTMENT OF VETERAN AFFAIRS.
 - WHEREVER POSSIBLE, ALL SPRINKLER SYSTEM PIPING AND HANGERS SHALL BE CONCEALED. PROVIDE ACCESS PANELS FOR ALL VALVES, WHERE REQUIRED.
 - PENETRATION OF FIRE-RATED ASSEMBLIES SHALL BE SEALED BY THE CONTRACTOR WITH A U.L. CERTIFIED THROUGH-PENETRATION SYSTEM APPROPRIATE FOR THE RATING OF THE WALL PENETRATED.

FIRE SUPPRESSION SYSTEM SYMBOLS



FIRE SUPPRESSION ABBREVIATIONS

ABD AUTOMATIC BALL DRIP	CPVC CHLORINATED POLYVINYL CHLORIDE	FPC FIRE PUMP CONTROLLER	PL PLASTER (CEILING)
ACT ACOUSTICAL CEILING TILE	DCH DRY CHEMICAL	GALV GALVANIZED	PMO FIRE PUMP CONTROLLER - MANUAL OFF
AFF ABOVE FINISHED FLOOR	DI DUCTILE IRON	GYP GYPSUM WALL BOARD (SHEETROCK)	POC POINT OF CONNECTION
AFFF AQUEOUS FILM FORMING FOAM	DL DELUGE	HL HALON SYSTEM	PR FIRE PUMP RUN
AS AUTOMATIC SPRINKLER	DN DOWN	HT HIGH TEMPERATURE (SPRINKLER)	PRV PRESSURE REGULATING VALVE
ASC AGENT STORAGE CONTAINER	DP DRY PENDENT (SPRINKLER)	ITC INSPECTORS TEST CONNECTION	QR QUICK RESPONSE (SPRINKLER)
ATR ALL THREAD ROD	DS DRY SIDEWALL (SPRINKLER)	JP JOCKEY PUMP	RX REMOVE EXISTING DEVICE
BFP BACKFLOW PREVENTER	EC EXTENDED COVERAGE (SPRINKLER)	JPC JOCKEY PUMP CONTROLLER	SCH SCHEDULE
BOB BOTTOM OF BEAM	ETR EXISTING TO REMAIN	MAX MAXIMUM	SPL HIDDEN SPLINE (CEILING)
CA CLEAN AGENT	EXP EXPOSED (NO CEILING)	MIN MINIMUM	STL STEEL
CB CONCRETE BEAM	FD FLOOR DRAIN	MT METAL TILE	T&G TONGUE AND GROOVE
CI CAST IRON	FDC FIRE DEPARTMENT CONNECTION	NIC NOT IN CONTRACT	TYP TYPICAL
CO2 CARBON DIOXIDE	FHV FIRE HOSE VALVE	NS NON-SPRINKLERED	UON UNLESS OTHERWISE NOTED
COL COLUMN	FO FOAM	NTS NOT TO SCALE	WC WET CHEMICAL SYSTEM
CONC CONCRETE	FP FIRE PUMP	PF FIRE PUMP POWER FAIL	WM WATER MIST SYSTEM
		PH FIRE PUMP PHASE REVERSAL	

OWNER'S INFORMATION CERTIFICATE

PROPERTY LOCATION:
BUILDING 26
400 VETERANS AVE
BILOXI, MS 39531

NAME OF OWNER:
JAY TRIPP
DEPARTMENT OF VETERANS AFFAIRS
400 VETERANS AVE, BUILDING #10
BILOXI, MS 39531

PHONE: 1-228-523-5723
FAX: 1-208-528-5723

EXISTING OR PLANNED CONSTRUCTION IS:
☒ FIRE RESISTIVE OR NONCOMBUSTIBLE
☐ WOOD FRAME OR ORDINARY (MASONRY WALLS WITH WOOD BEAMS)
☐ UNKNOWN

IS THE SYSTEM INSTALLATION INTENDED FOR ONE OF THE FOLLOWING SPECIAL OCCUPANCIES:
YES NO
☐ AIRCRAFT HANGAR
☐ FIXED GUIDEWAY TRANSIT SYSTEM
☐ RACE TRACK STABLE
☐ MARINE TERMINAL, PIER, OR WHARF
☐ AIRPORT TERMINAL
☐ AIRCRAFT ENGINE TEST FACILITY
☐ POWER PLANT
☐ WATER-COOLING TOWER

INDICATE WHETHER ANY OF THE FOLLOWING SPECIAL MATERIALS ARE INTENDED TO BE PRESENT:
YES NO
☐ FLAMMABLE OR COMBUSTIBLE LIQUIDS
☐ AEROSOL PRODUCTS
☐ NITRATE FILM
☐ PYROXYLIN PLASTIC
☐ COMPRESSED OR LIQUEFIED GAS CYLINDERS
☐ LIQUID OR SOLID OXIDIZERS
☐ ORGANIC PEROXIDE FORMULATIONS
☐ IDLE PALLETS

INDICATE WHETHER THE PROTECTION IS INTENDED FOR ONE OF THE FOLLOWING SPECIALIZED OCCUPANCIES OR AREAS:
YES NO
☐ SPRAY AREA OR MIXING ROOM
☐ SOLVENT EXTRACTION
☐ LABORATORY USING CHEMICALS
☐ OXYGEN-FUEL GAS SYSTEM FOR WELDING OR CUTTING
☐ ACETYLENE CYLINDER CHARGING
☐ PRODUCTION OR USE OF COMPRESSED OR LIQUEFIED GASES
☐ COMMERCIAL COOKING OPERATION
☐ CLASS A HYPERBARIC CHAMBER
☐ CLEANROOM
☐ INCINERATOR WASTE HANDLING SYSTEM
☐ LINEN HANDLING SYSTEM
☐ WATER-COOLING TOWER

WILL THERE BE ANY STORAGE OR PRODUCTS OVER 12 FT (3.5 M) IN HEIGHT?
YES NO
☐ WILL THERE BE ANY STORAGE OF PLASTIC, RUBBER, OR SIMILAR PRODUCTS OVER 5 FT (1.3 M) HIGH EXCEPT AS DESCRIBED ABOVE? (PHARMACEUTICALS IN PLASTIC BOTTLES UP TO 12 FT IN HEIGHT).

THIS FORM HAS BEEN COMPLETED BY KOFFEL ASSOCIATES ON BEHALF OF THE OWNER BASED ON INFORMATION PROVIDED BY THE OWNER AND HIS AGENTS.

I CERTIFY THAT I HAVE KNOWLEDGE OF THE INTENDED USE OF THE PROPERTY AND THAT THE ABOVE INFORMATION IS CORRECT.

SIGNATURE OF OWNER'S REPRESENTATIVE OR AGENT
DATE: MARCH 10, 2008

KOFFEL ASSOCIATES, INC.
NAME OF OWNER'S REPRESENTATIVE OR AGENT
COMPLETING CERTIFICATE.

CONSULTING ENGINEER
RELATIONSHIP AND FIRM OF AGENT

Revision Schedule	
Revision Number	Revision Date

CONSULTANTS:			
CIVIL / STRUCTURAL Simpkins & Costell, Inc. 401 32 1/2 Street Gulfport, MS 39506 t: 228.864.6289 f: 228.864.2897	MECH / PLUMBING Atherton Consulting Engineers 1907 Pass Road, Suite G Biloxi, MS 39531 t: 601.362.6478 f: 601.981.0575	ELECTRICAL Watkins & O'Gwynn 4523 Office Park Drive Jackson, MS 39208 t: 601.982.3313 f: 601.982.7685	FIRE PROTECTION Koffel Associates, Inc. 6522 Meadow Ridge Road, Suite 101 Elkridge, MD 21075 t: 410.750.2246 f: 410.750.2588

CONSTRUCTION DOCUMENT SUBMISSION-

ARCHITECT:
ELLERBE BECKET
2380 McGee Street, Suite 200
Kansas City, MO 64108
816 561 4443
Ellerbe Becket, Inc.
Ellerbe Becket Architects and Engineers, Inc.
Ellerbe Becket Architects and Engineers
2008

Drawing Title:
SPRINKLER SYSTEM - NOTES AND SYMBOLS

Project Title:
Contract New Warehouse

Project Number:
520-320

Building Number:
26

Drawing Number:
FX001

Dwg. 102 of 105

Location:
BILOXI, MS

Date:
3/10/08

Checked:
SSG

Drawn:
PHZ

Office of Facilities Management
Department of Veterans Affairs

