

GENERAL NOTES

- THIS DOES NOT REPRESENT A FIRE PROTECTION SHOP DRAWING DESIGN. THIS DOCUMENT IS TO SHOW DESIGN INTENT. FINAL HYDRAULIC CALCULATIONS, HEAD LAYOUTS, AND PIPE SIZES, COMPLYING WITH ALL CODES, FOR A COMPLETE AND OPERATIONAL SYSTEM ARE TO BE SUPPLIED BY THE FIRE PROTECTION CONTRACTOR.
- THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE THE FINAL DESIGN FOR THE FIRE SPRINKLER SYSTEM AND SHALL PROVIDE THE ARCHITECT/ENGINEER AND THE AUTHORITIES HAVING JURISDICTION, SHOP DRAWINGS AND HYDRAULIC CALCULATIONS, IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13, FOR REVIEW.
- THE FIRE SPRINKLER SYSTEM SHALL CONFORM TO NFPA 13 AND ALL APPLICABLE REGULATORY REQUIREMENTS AND BUILDING CODES AS INTERPRETED BY THE AUTHORITIES HAVING JURISDICTION, WHERE CONFLICTS EXIST BETWEEN SUCH REGULATORY OR CODE REQUIREMENTS, SUCH CONFLICT SHALL BE IDENTIFIED FOR THE REVIEW OF THE ARCHITECT AND ENGINEER.
- COORDINATE WITH ARCHITECTURAL RCP, HVAC, ELECTRICAL, PLUMBING AND STRUCTURAL ELEMENTS AS REQUIRED FOR PROPER INSTALLATION OF SPRINKLER SYSTEM PIPING AND HEADS.
- PROVIDE FLEXIBLE COUPLINGS AT FLEXURE JOINTS PER NFPA 13 SECTION 9.3.2.1. PROVIDE CLEARANCE AROUND PIPING PASSING THROUGH FLOORS, WALL AND FOUNDATIONS WHERE REQUIRED PER NFPA 13 SECTION 9.3.4.
- ALL FIRE PROTECTION EQUIPMENT SHALL BE U.L. LISTED.
- ALL FIRE PROTECTION EQUIPMENT SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS PER NFPA 13.
- PROVIDE SEISMIC RESTRAINT FOR PIPING WHERE REQUIRED BY IBC SECTION 1613.
- PROVIDE INSPECTOR TEST VALVES AT INSULATED, ACCESSIBLE LOCATIONS WITH DRAINS DISCHARGED TO THE EXTERIOR OF THE BUILDING.
- PROVIDE A BELL, ACTIVATED BY THE SPRINKLER SYSTEM, ON THE EXTERIOR OF THE BUILDING.
- PROVIDE SWING JOINTS ON ALL HEADS TO CENTER HEADS IN CEILING GRID WHERE ONE IS PROVIDED (2 DIRECTIONS).
- HANG ALL ARMOVERS LONGER THAN 12"CC.
- ALL PIPING 2 IN. AND SMALLER TO BE SCH. 40 BLACK STEEL. ALL PIPING 2-1/2" AND LARGER TO BE SCH. 10 BLACK STEEL.
- ALL PIPE PENETRATIONS THROUGH THE STRUCTURE TO BE CORE DRILLED. SLEEVES SHALL BE INSTALLED WHERE PIPING PASSES THROUGH THE STRUCTURE.
- ALL OPENINGS THROUGH RATED WALLS SHALL BE SEALED WITH AN APPROVED FIRE PROOFING TO MAINTAIN THE INTEGRITY OF THE WALL.
- SPRINKLER PIPING SHOWN ABOVE FLOOR OR GRADE SHALL BE INSTALLED ABOVE CEILING WHERE CEILINGS ARE PROVIDED. COORDINATE ROUTING WITH OTHER TRADES.
- PROVIDE BRASS TAGS ON ALL VALVES.
- INSTALL CHROME, METAL SPLIT TYPE PIPE ESCUTCHEON AT EXPOSED WALL PENETRATIONS.
- ALL SYSTEM GAUGES AND VALVES SHALL BE ACCESSIBLE FOR MAINTENANCE AND INSPECTION.
- ALL FITTINGS TO BE CLASS 250 SLIP ON MECHANICAL JOINT TYPE.
- INSTALLATION AND TESTING PER NFPA 24.
- PIPE TO HAVE A MINIMUM 3'-0" BURY FROM TOP OF PIPE.
- ALL PIPING TO BE PROPERLY BLOCKED, RODDED, OR CLAMPED.
- ALL RODDING PER NFPA 24.
- BITUMINOUS COAT ALL UNDERGROUND BOLTS, RODS, AND CONNECTORS.
- CHLORINATE ALL NEW UNDERGROUND PIPING PER LOCAL CODE.
- FLUSH ALL UNDERGROUND PIPING PER NFPA.
- SPRINKLER HEADS WITHIN 36" OF SUPPLY GRILLES IN ANY DIRECTION SHALL HAVE INTERMEDIATE CLASSIFICATION PER NFPA 13 TABLE 3-2.5.1.

GUARANTEE

GUARANTEE
 MATERIALS, EQUIPMENT, AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
 FOR THE SAME PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

BID DRAWINGS

- THESE DRAWINGS ARE FOR BIDDING PURPOSES ONLY. THESE ARE NOT CONSTRUCTION DRAWINGS.
- REVISIONS DUE TO COMMENTS RECEIVED FROM STATE REVIEW AGENCIES, OWNER PROVIDED EQUIPMENT, AND COORDINATION BETWEEN ALL TRADES WILL BE INCORPORATED INTO THE FINAL CONSTRUCTION DRAWINGS SET.

FIRE PROTECTION LEGEND

NOT ALL SYMBOLS MAY BE USED

SYMBOL	ABB.	DESCRIPTION
	DPSS	DRY PIPE SPRINKLER SYSTEM
	F	FIRE MAIN
	ID	PIPE TURN DOWN
	ID	PIPE TURN UP
		BALL VALVE
		GATE VALVE
		CHECK VALVE
		CAP/PLUG
		UNION
	1.E.	INVERT ELEVATION
	AFF	ABOVE FINISHED FLOOR
	DCVA	DOUBLE CHECK VALVE ASSEMBLY
	DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
		FIRE RISER NO.
		RISER SIZE
		CEILING SPRINKLER - UPRIGHT
		CEILING SPRINKLER - CONCEALED
		CEILING SPRINKLER - RECESSED PENDANT
		CEILING SPRINKLER - DRY UPRIGHT
		SIDEWALL SPRINKLER
		SIDEWALL EXTENDED COVERAGE SPRINKLER
		SIDEWALL SPRINKLER, NON-FREEZE
	FDC	FIRE DEPARTMENT CONNECTION
	PIV	POST INDICATOR VALVE
	TB	THRUST BLOCK
	FH	FIRE HYDRANT
		SPRINKLER RISER
		NEW UNDERGROUND PIPE
		EXISTING UNDERGROUND PIPE

FIRE PROTECTION SHEET INDEX

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F101.2	FIRST FLOOR PLAN - AREA A SOUTH - FIRE PROTECTION
F101.3	FIRST FLOOR PLAN - AREA B - FIRE PROTECTION
F101.4	FIRST FLOOR PLAN - AREA C - FIRE PROTECTION
F102	SECOND FLOOR PLAN - FIRE PROTECTION
F102.1	SECOND FLOOR PLAN - AREA A NORTH - FIRE PROTECTION
F102.2	SECOND FLOOR PLAN - AREA A SOUTH - FIRE PROTECTION
F102.3	SECOND FLOOR PLAN - AREA B - FIRE PROTECTION
F102.4	SECOND FLOOR PLAN - AREA C - FIRE PROTECTION
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F103.1	THIRD FLOOR PLAN - AREA A SOUTH - FIRE PROTECTION
F103.2	THIRD FLOOR PLAN - AREA B - FIRE PROTECTION
F201	HYDRAULIC CALCS AND DETAILS
F301	DETAILS - FIRE PROTECTION



PROJECT NAME

WSD - NEW SENIOR HIGH SCHOOL

LOCATION

800 E JACKSON AVE
 WYNNE AR 72396

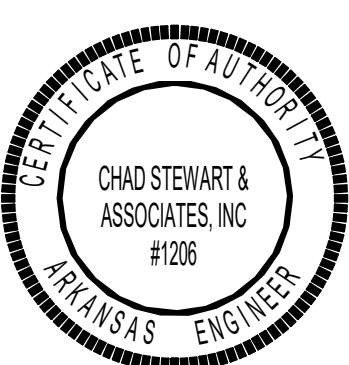
PROJECT NUMBER

-

DEVELOPER/OWNER

WYNNE SCHOOL DISTRICT

INFORMATION



SHEET TITLE
 GENERAL NOTES AND LEGEND

DATE
 17.10.24

SHEET NUMBER

F001



PROJECT NAME

WSD - NEW SENIOR HIGH SCHOOL

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800 E JACKSON AVE
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PROJECT NUMBER

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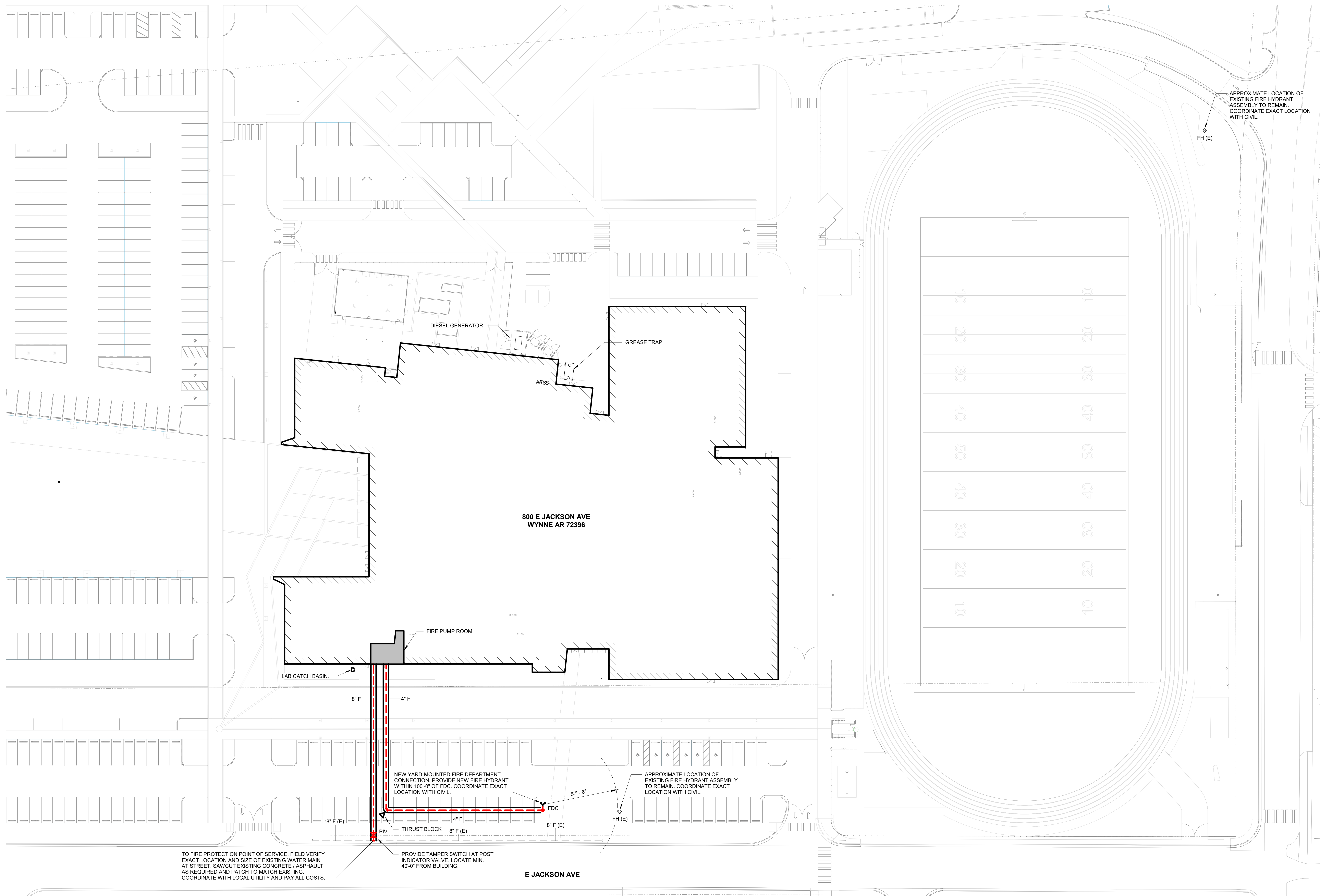
DEVELOPER/OWNER

WYNNE SCHOOL DISTRICT

INFORMATION



Revision Description Date



TO FIRE PROTECTION POINT OF SERVICE, FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING WATER MAIN AT STREET. SAWCUT EXISTING CONCRETE / ASPHALT AS REQUIRED AND PATCH TO MATCH EXISTING. COORDINATE WITH LOCAL UTILITY AND PAY ALL COSTS.

PROVIDE TAMPER SWITCH AT POST INDICATOR VALVE. LOCATE MIN. 40'-0" FROM BUILDING.

NEW YARD-MOUNTED FIRE DEPARTMENT CONNECTION. PROVIDE NEW FIRE HYDRANT WITHIN 100'-0" OF FDC. COORDINATE EXACT LOCATION WITH CIVIL.

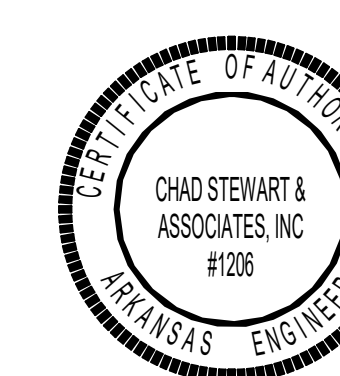
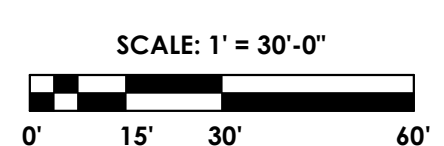
APPROXIMATE LOCATION OF EXISTING FIRE HYDRANT ASSEMBLY TO REMAIN. COORDINATE EXACT LOCATION WITH CIVIL.

APPROXIMATE LOCATION OF EXISTING FIRE HYDRANT ASSEMBLY TO REMAIN. COORDINATE EXACT LOCATION WITH CIVIL.

800 E JACKSON AVE
WYNNE AR 72396

E JACKSON AVE

1 SITE PLAN - FIRE PROTECTION
1" = 30'-0"



GENERAL LIFE SAFETY NOTES

WALL RATINGS

UL DESIGN NUMBERS - U469, U605 — 1 HR FIRE BARRIER (FIRE STAIRS, ELEVATOR SHAFTS, MECH. SHAFTS, SHAFTS)

UL DESIGN NUMBERS - U497, U605, U616 — 2 HR FIRE WALL (BUILDING SEPARATION WALL)

UL DESIGN NUMBERS - U497, U605, U616 — 1 HR FIRE WALL (BUILDING SEPARATION WALL)

UL DESIGN NUMBERS - U497, U605, U616 — SMOKE PARTITION

FP KEYNOTE LEGEND

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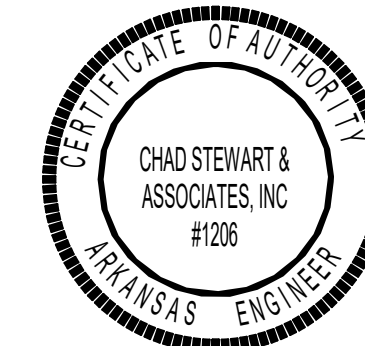


NOTES:

1. PROVIDE UPRIGHT SPRINKLER HEADS WITH SHIELDS BENEATH ALL CATWALKS.
2. PROVIDE UPRIGHT SPRINKLER HEADS BENEATH ALL DUCTS WIDER THAN 48".

1 FIRST FLOOR PLAN - FIRE PROTECTION
 1/16" = 1'-0"

SCALE: 1/16" = 1'-0"
 0' 8' 16' 32'



SHEET TITLE
 FIRST FLOOR PLAN - FIRE PROTECTION

DATE
 17.10.24

SHEET NUMBER

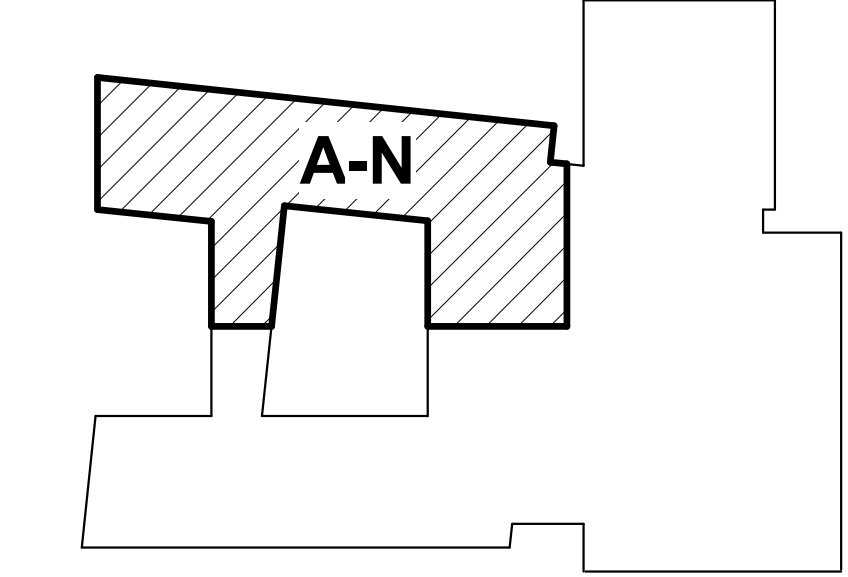
F101

#	FP KEYNOTE LEGEND
FP5	PROVIDE UPRIGHT SPRINKLER HEADS BENEATH STAIRS AND LANDING ON FLOOR ABOVE.
FP6	PROVIDE DRY UPRIGHT SPRINKLER HEADS FOR OUTDOOR CANOPY AS REQUIRED BY NFPA 13. TYP.
FP8	GRAY SHADING INDICATES 2-STORY CEILING. SEE SECOND FLOOR RCP FOR SPRINKLERS IN SPACE.
FP9	PROVIDE UPRIGHT SPRINKLER HEADS FOR AREAS OPEN TO STRUCTURE. REF. ARCH. REFLECTED CEILING PLAN. TYP.
FP10	PROVIDE RECESSED PENDANT SPRINKLER HEADS FOR AREAS WITH CEILINGS. REF. ARCH. REFLECTED CEILING PLAN. TYP.
FP11	AIR TERMINAL. REF. MECH. TYP.
FP12	LIGHTING FIXTURE. REF. ELEC. TYP.
FP13	PROVIDE UPRIGHT SPRINKLER HEADS ABOVE 1" X 4" WOOD CEILING PANEL. REF. ARCH. PROVIDE PROTECTION UNDER WOOD CEILING PANEL AS REQUIRED BY NFPA 13 9.3.10.
FP14	PROVIDE SIDEWALL SPRINKLERS FOR UNDER OVERHEAD DOOR PER NFPA 13.
FP15	PROVIDE NON-FREEZE SIDEWALL SPRINKLER HEADS CONNECTED TO WET SYSTEM FOR OUTDOOR CANOPY AS REQUIRED BY NFPA 13. TYP.

GENERAL LIFE SAFETY NOTES

- WALL RATINGS**
- 1 HR FIRE BARRIER (FIRE STAIRS, ELEVATOR SHAFTS, MECH. SHAFTS, SHAFTS)
 - UL DESIGN NUMBERS - U485, U995
 - 2 HR FIRE WALL (BUILDING SEPARATION WALLS)
 - UL DESIGN NUMBERS - U497, U905, U916
 - SMOKE PARTITION

KEYPLAN



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CONSULTANT / SEAL

STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 GARY E. WHITTEN
 No. 15519
 10/17/2024

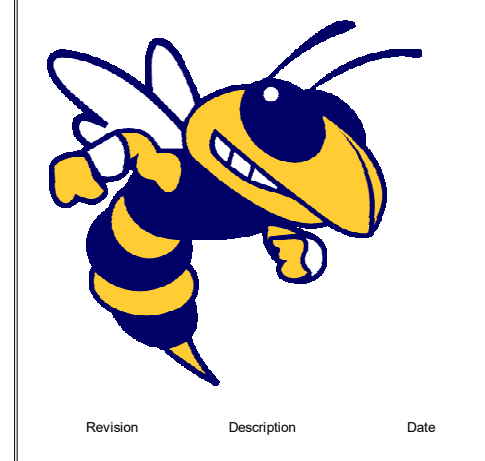
PROJECT NAME
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LOCATION
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 WYNNE AR 72396

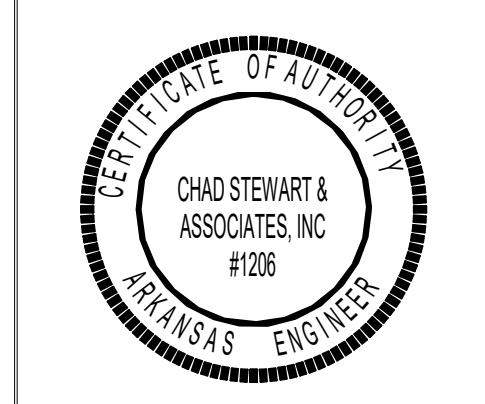
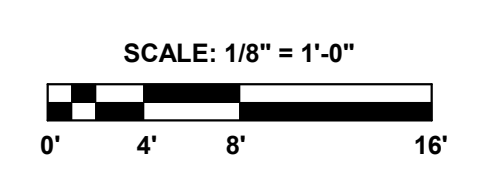
PROJECT NUMBER
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DEVELOPER/OWNER
 WYNNE SCHOOL DISTRICT

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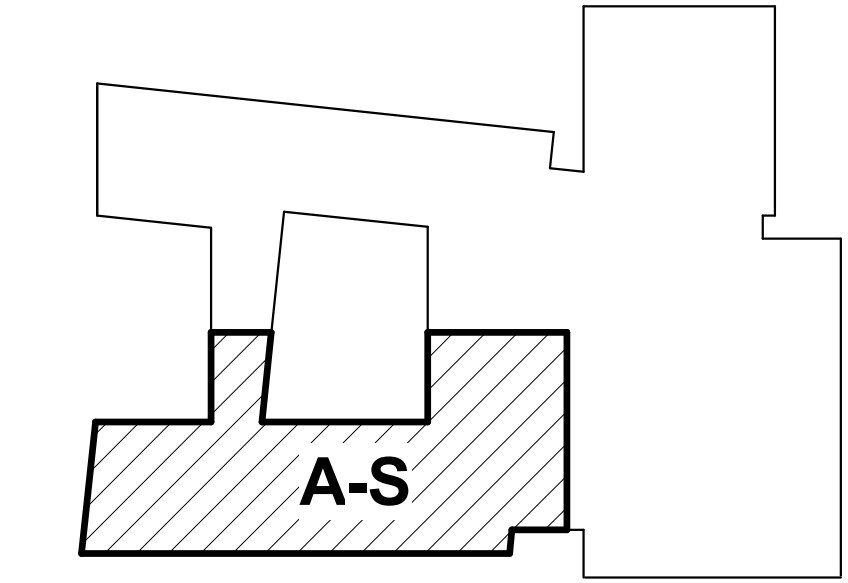
1 FIRST FLOOR PLAN - AREA A NORTH - FIRE PROTECTION
 1/8" = 1'-0"



GENERAL LIFE SAFETY NOTES

- WALL RATINGS**
- 1 HR FIRE BARRIER (FIRE STAIRS, ELEVATOR SHAFTS, MECH. SHAFTS, SHAFTS)
 - 2 HR FIRE WALL (BUILDING SEPARATION WALLS)
 - UL DESIGN NUMBERS - U489, U985
 - UL DESIGN NUMBERS - U497, U985, U916
 - SMOKE PARTITION

KEYPLAN



FP KEYNOTE LEGEND	
FP2	6" CLASS I STANDPIPE UP TO UPPER FLOORS. INSTALL PER NFPA 14.
FP3	2-1/2" CLASS I STANDPIPE HOSE CONNECTION, 34'-0" AFF. INSTALL PER NFPA 14.
FP4	FLOOR CONTROL VALVE. SEE DETAIL.
FP5	PROVIDE UPRIGHT SPRINKLER HEADS BENEATH STAIRS AND LANDING ON FLOOR ABOVE.
FP6	PROVIDE DRY UPRIGHT SPRINKLER HEADS FOR OUTDOOR CANOPY AS REQUIRED BY NFPA 13. TYP.
FP7	PROVIDE SIDEWALL SPRINKLER 2'-0" MAX ABOVE THE FLOOR OF ELEVATOR PIT. PROVIDE WITH 1" OS&Y VALVE W/TAMPER SWITCH.
FP8	GRAY SHADING INDICATES 2-STORY CEILING. SEE SECOND FLOOR RCP FOR SPRINKLERS IN SPACE.
FP9	PROVIDE UPRIGHT SPRINKLER HEADS FOR AREAS OPEN TO STRUCTURE. REF. ARCH. REFLECTED CEILING PLAN. TYP.
FP10	PROVIDE RECESSED PENDANT SPRINKLER HEADS FOR AREAS WITH CEILINGS. REF. ARCH. REFLECTED CEILING PLAN. TYP.
FP11	AIR TERMINAL. REF. MECH. TYP.
FP12	LIGHTING FIXTURE. REF. ELEC. TYP.

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PROJECT NAME
 WSD - NEW SENIOR HIGH SCHOOL

LOCATION
 800 E JACKSON AVE
 WYNNE AR 72396

PROJECT NUMBER
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DEVELOPER/OWNER
 WYNNE SCHOOL DISTRICT



SHEET TITLE
 FIRST FLOOR PLAN - AREA A SOUTH - FIRE PROTECTION

DATE
 17.10.24

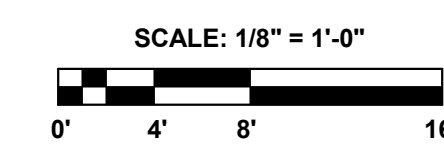
SHEET NUMBER

CSA PROJECT NO. 24122
 Chad Stewart & Associates, Inc.
 9720 Village Circle
 Phone 901-260-7850
 Lakeland, TN 38002
 CSAengineeringinc.com

F101.2



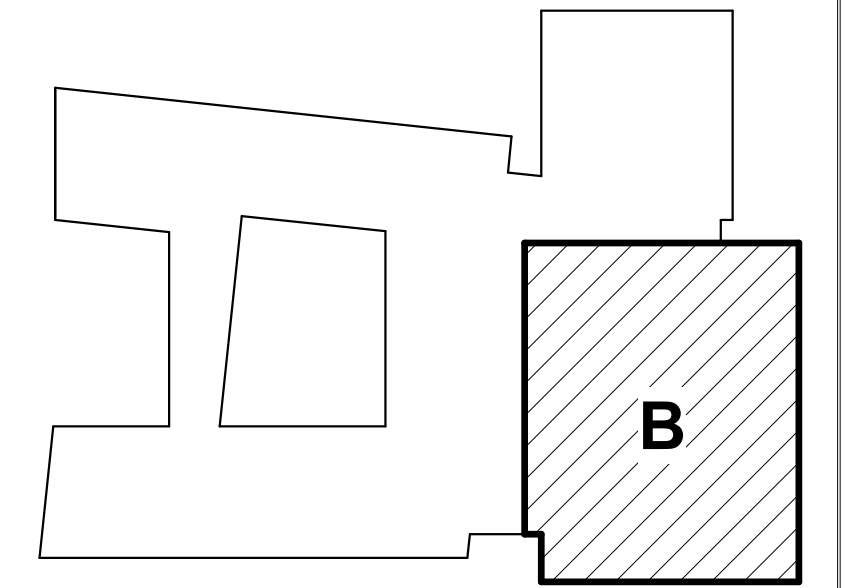
1 FIRST FLOOR PLAN - AREA A SOUTH - FIRE PROTECTION
 1/8" = 1'-0"



GENERAL LIFE SAFETY NOTES

- WALL RATINGS**
- 1 HR FIRE BARRIER (FIRE STAIRS, ELEVATOR SHAFTS, MECH. SHAFTS, SHAFTS)
 - UL DESIGN NUMBERS - U485, U995
 - 2 HR FIRE WALL (BUILDING SEPARATION WALLS)
 - UL DESIGN NUMBERS - U497, U905, U916
 - SMOKE PARTITION

KEYPLAN



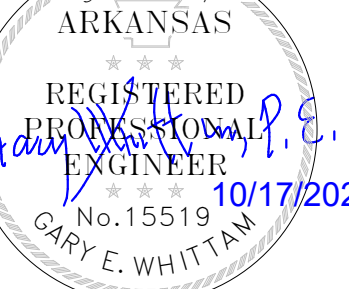
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#	FP KEYNOTE LEGEND
FP1	DASHED LINES INDICATE SMOKE VENT ABOVE. SPRINKLER HEADS SHALL NOT BE INSTALLED DIRECTLY UNDER ROOF VENT. (TYP. ALL SMOKE VENTS)
FP2	6" CLASS I STANDPIPE UP TO UPPER FLOORS. INSTALL PER NFPA 14.
FP3	2-1/2" CLASS I STANDPIPE HOSE CONNECTION. ±4'-0" AFF. INSTALL PER NFPA 14.
FP4	FLOOR CONTROL VALVE. SEE DETAIL.
FP5	PROVIDE UPRIGHT SPRINKLER HEADS BENEATH STAIRS AND LANDING ON FLOOR ABOVE.
FP6	PROVIDE DRY UPRIGHT SPRINKLER HEADS FOR OUTDOOR CANOPY AS REQUIRED BY NFPA 13. TYP.
FP7	PROVIDE SIDEWALL SPRINKLER 2'-0" MAX ABOVE THE FLOOR OF ELEVATOR PIT. PROVIDE WITH 1" OSSY VALVE WITH TAMPER SWITCH.
FP9	PROVIDE UPRIGHT SPRINKLER HEADS FOR AREAS OPEN TO STRUCTURE. REF. ARCH. REFLECTED CEILING PLAN. TYP.
FP10	PROVIDE RECESSED PENDANT SPRINKLER HEADS FOR AREAS WITH CEILINGS. REF. ARCH. REFLECTED CEILING PLAN. TYP.
FP11	AIR TERMINAL. REF. MECH. TYP.
FP12	LIGHTING FIXTURE. REF. ELEC. TYP.
FP14	PROVIDE SIDEWALL SPRINKLERS FOR UNDER OVERHEAD DOOR PER NFPA 13.
FP16	PROVIDE CONCEALED SPRINKLER HEADS IN ACOUSTIC PANEL FOR PROTECTION UNDER OBSTRUCTION PER NFPA 13. PROVIDE UPRIGHT SPRINKLER HEADS ABOVE FOR SPACE OPEN TO STRUCTURE. TYP.

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WYNNE AR 72396

PROJECT NUMBER

-

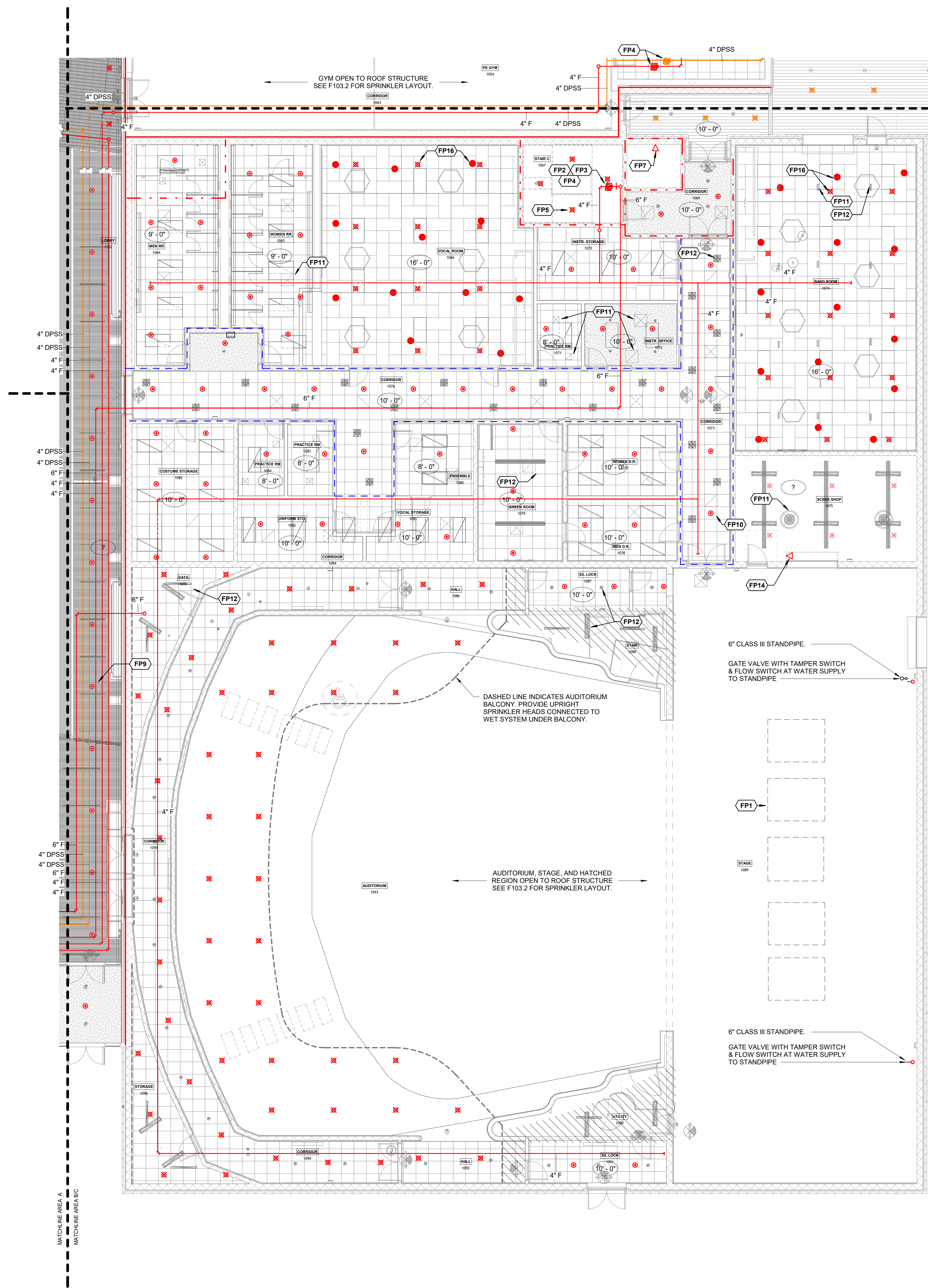
DEVELOPER/OWNER

WYNNE SCHOOL DISTRICT

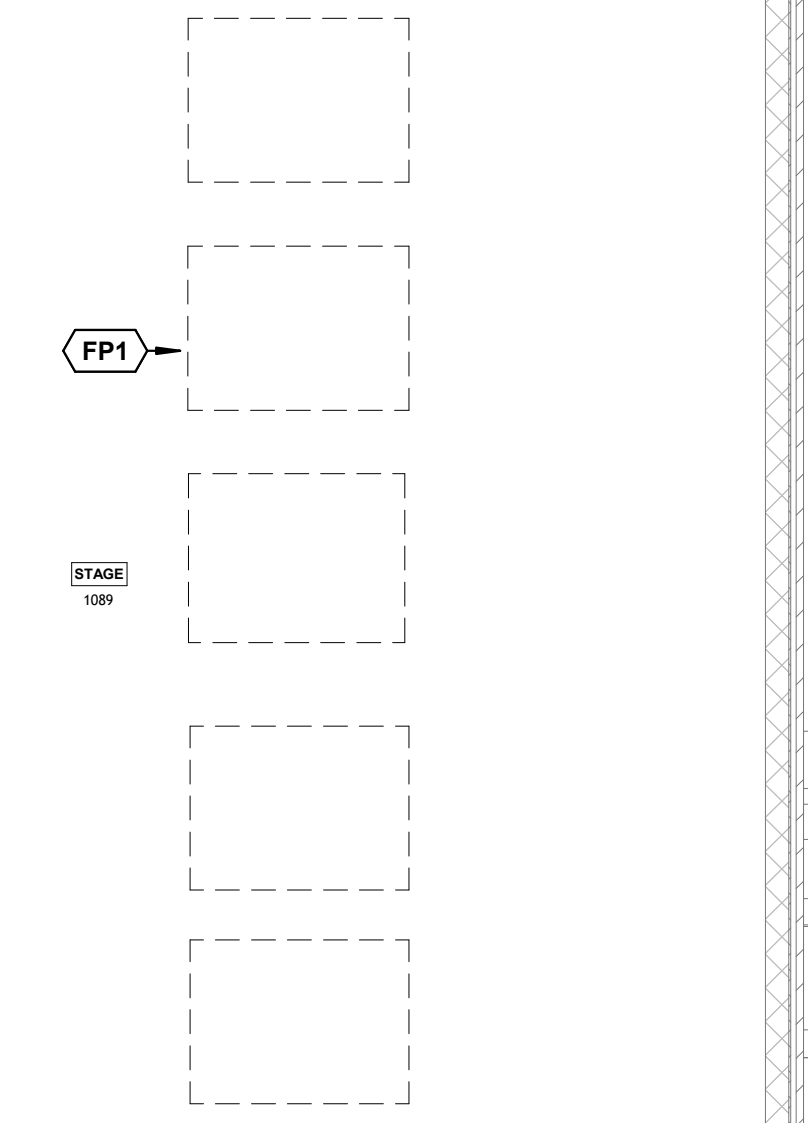
INFORMATION



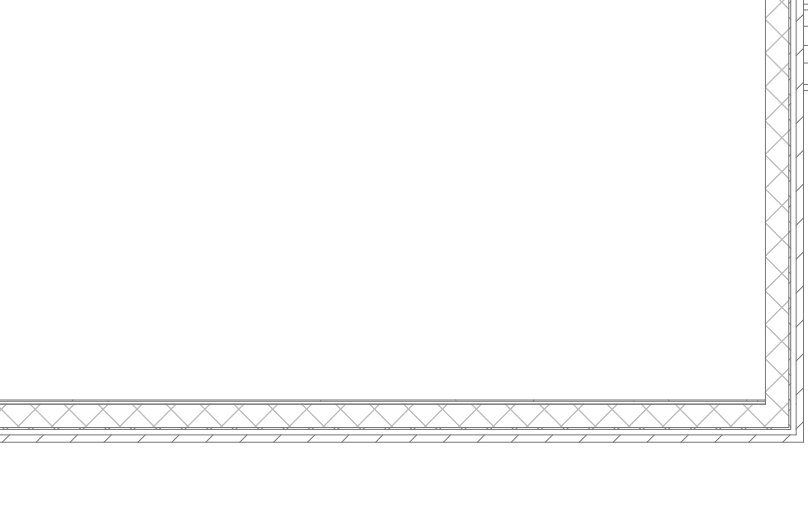
Revision Description Date



6" CLASS III STANDPIPE.
GATE VALVE WITH TAMPER SWITCH & FLOW SWITCH AT WATER SUPPLY TO STANDPIPE



6" CLASS III STANDPIPE.
GATE VALVE WITH TAMPER SWITCH & FLOW SWITCH AT WATER SUPPLY TO STANDPIPE



GYM OPEN TO ROOF STRUCTURE.
SEE F103.2 FOR SPRINKLER LAYOUT.

AUDITORIUM, STAGE, AND HATCHED REGION OPEN TO ROOF STRUCTURE.
SEE F103.2 FOR SPRINKLER LAYOUT.

DASHED LINE INDICATES AUDITORIUM BALCONY. PROVIDE UPRIGHT SPRINKLER HEADS CONNECTED TO WET SYSTEM UNDER BALCONY.

1 FIRST FLOOR PLAN - AREA B - FIRE PROTECTION
1/8" = 1'-0"
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

SHEET TITLE
FIRST FLOOR PLAN - AREA B - FIRE PROTECTION

DATE
17.10.24

SHEET NUMBER

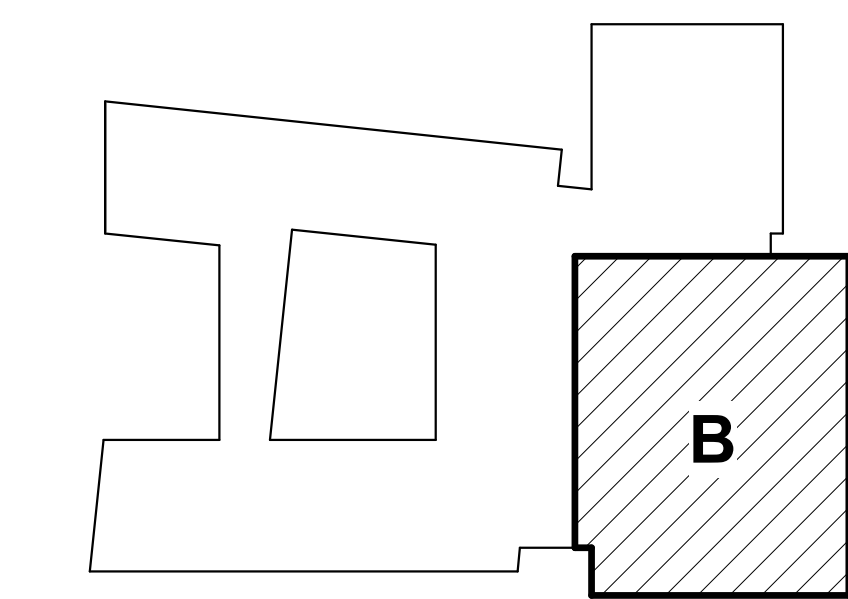
F101.3



GENERAL LIFE SAFETY NOTES

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 - 2 HR FIRE WALL (BUILDING SEPARATION WALL)
 - UL DESIGN NUMBERS - U497, U995, U916
 - SMOKE PARTITION

KEYPLAN



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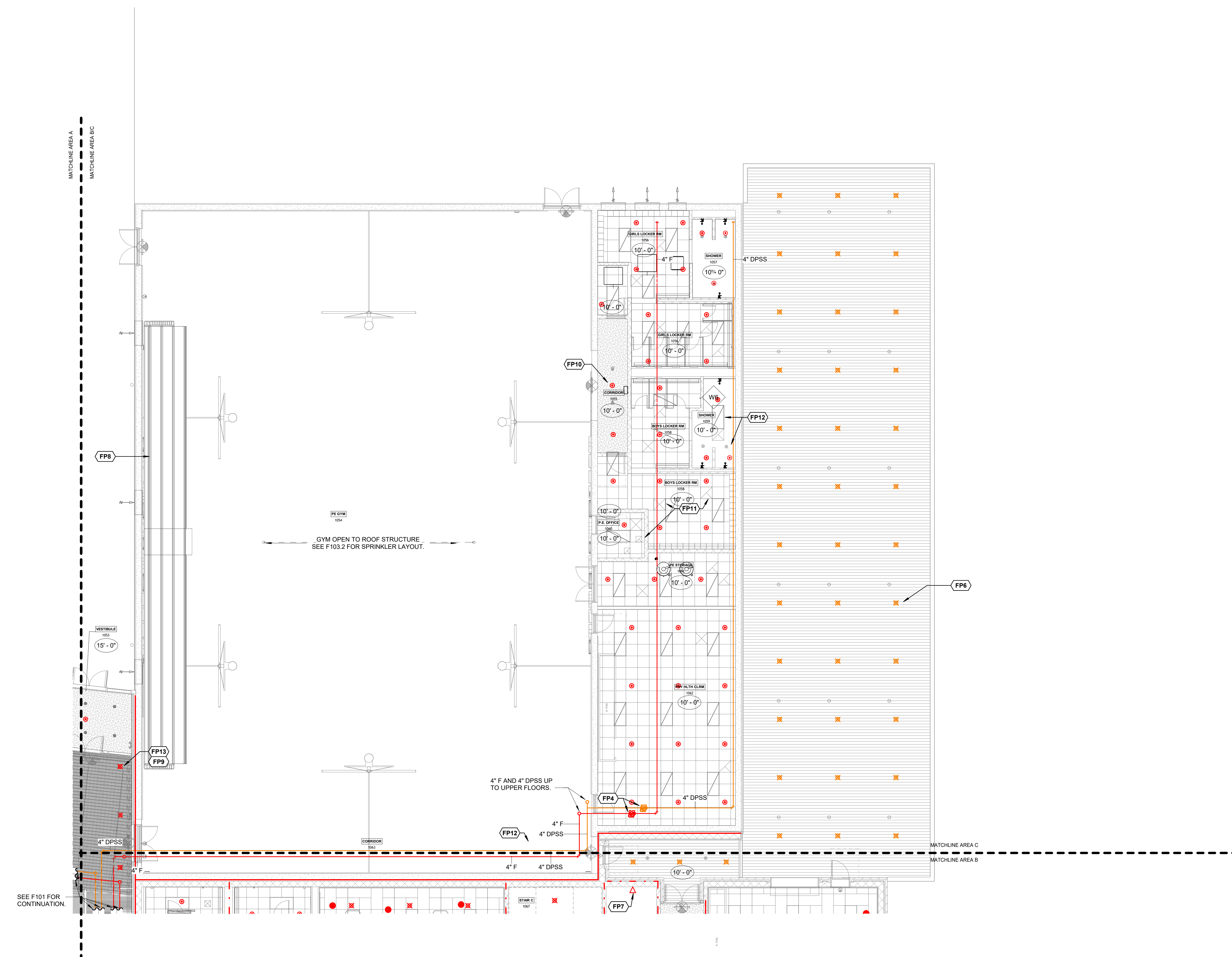
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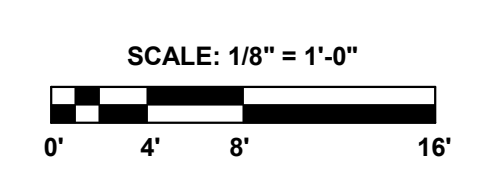
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#	FP KEYNOTE LEGEND
FP4	FLOOR CONTROL VALVE. SEE DETAIL.
FP6	PROVIDE DRY UPRIGHT SPRINKLER HEADS FOR OUTDOOR CANOPY AS REQUIRED BY NFPA 13 TYP.
FP7	PROVIDE SIDEWALL SPRINKLER 2'-0" MAX ABOVE THE FLOOR OF ELEVATOR PIT. PROVIDE WITH 1" OS&V VALVE W/TAMPER SWITCH.
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FP12	LIGHTING FIXTURE. REF. ELEC. TYP.
FP13	PROVIDE UPRIGHT SPRINKLER HEADS ABOVE 1" X 4" WOOD CEILING PANEL. REF. ARCH. PROVIDE PROTECTION UNDER WOOD CEILING PANEL AS REQUIRED BY NFPA 13 9.3.10.



1 FIRST FLOOR PLAN - AREA C - FIRE PROTECTION
1/8" = 1'-0"



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FIRST FLOOR PLAN - AREA C - FIRE PROTECTION

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WSD - NEW SENIOR HIGH SCHOOL

LOCATION

800 E JACKSON AVE
 WYNNE AR 72396

PROJECT NUMBER

-

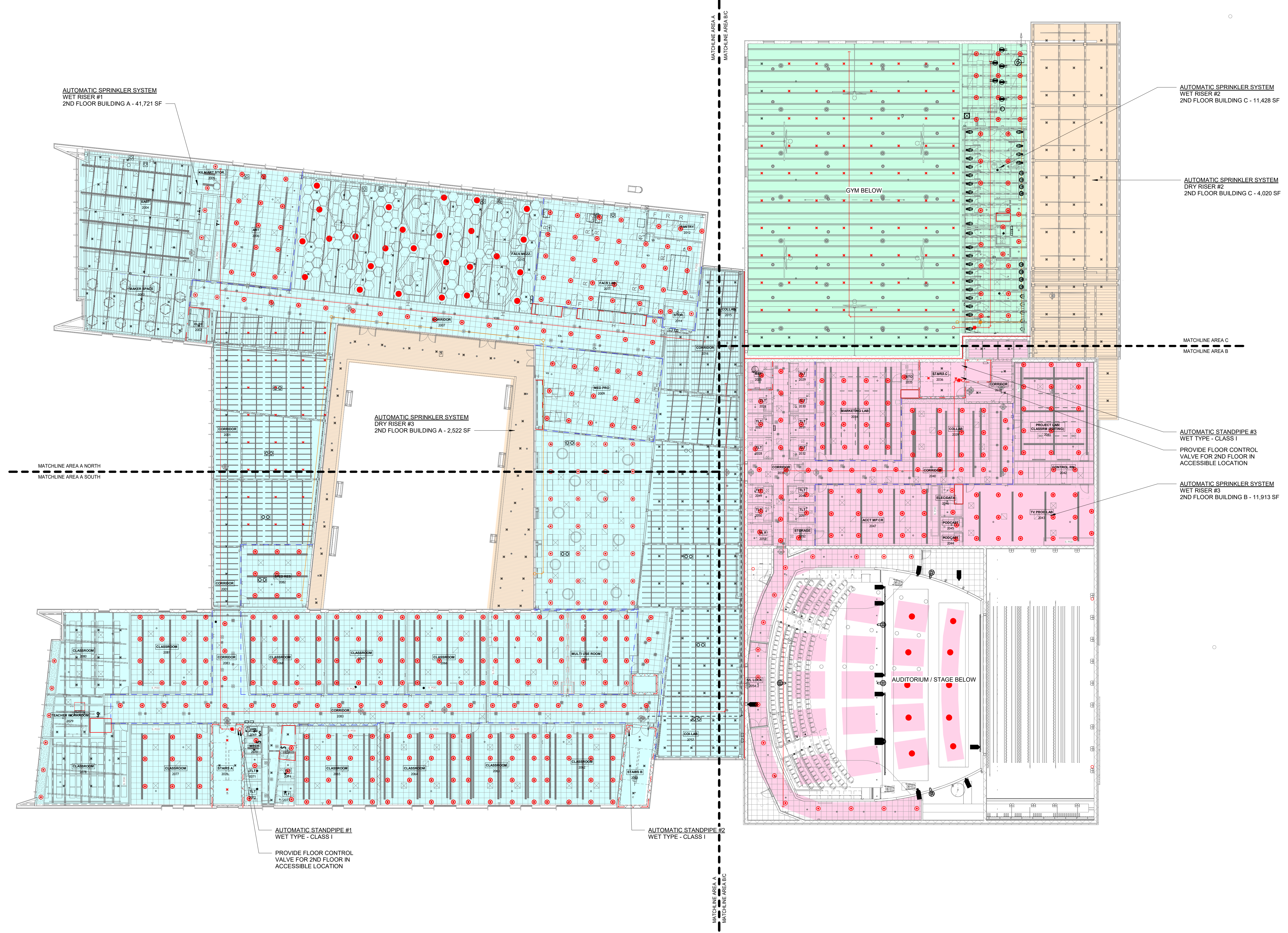
DEVELOPER/OWNER

WYNNE SCHOOL DISTRICT

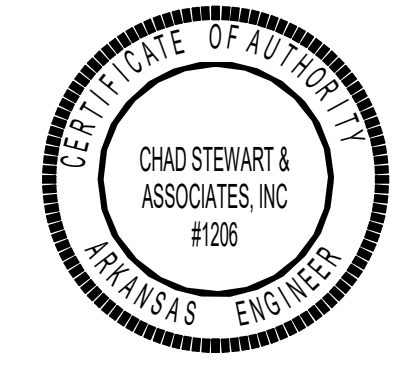
INFORMATION



Revision Description Date



1 SECOND FLOOR PLAN - FIRE PROTECTION
 1/16" = 1'-0"
 SCALE: 1/16" = 1'-0"
 0' 8' 16' 32'



SHEET TITLE
 SECOND FLOOR PLAN -
 FIRE PROTECTION

DATE
 17.10.24

SHEET NUMBER

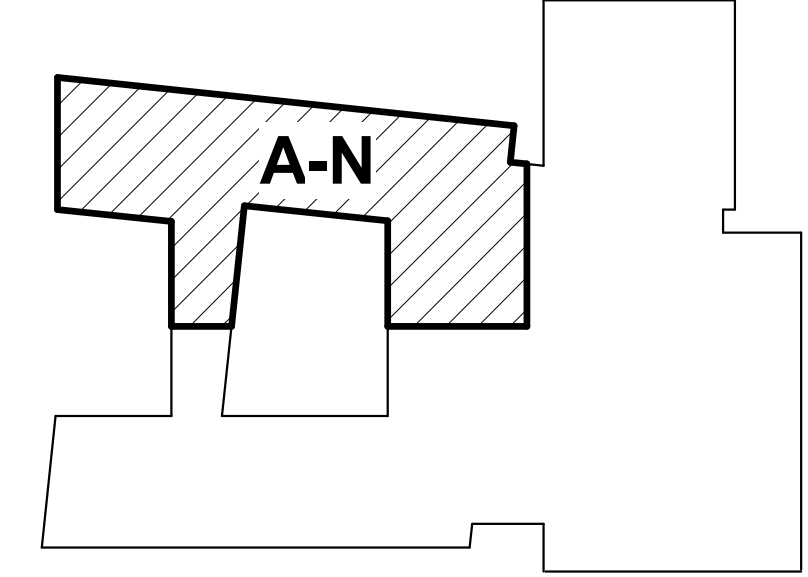
F102

#	FP KEYNOTE LEGEND
FP6	PROVIDE DRY UPRIGHT SPRINKLER HEADS FOR OUTDOOR CANOPY AS REQUIRED BY NFPA 13. TYP.
FP9	PROVIDE UPRIGHT SPRINKLER HEADS FOR AREAS OPEN TO STRUCTURE. REF. ARCH. REFLECTED CEILING PLAN. TYP.
FP10	PROVIDE RECESSED PENDANT SPRINKLER HEADS FOR AREAS WITH CEILING. REF. ARCH. REFLECTED CEILING PLAN. TYP.
FP11	AIR TERMINAL. REF. MECH. TYP.
FP12	LIGHTING FIXTURE. REF. ELEC. TYP.
FP16	PROVIDE CONCEALED SPRINKLER HEADS IN ACOUSTIC PANEL FOR PROTECTION UNDER OBSTRUCTION PER NFPA 13. PROVIDE UPRIGHT SPRINKLER HEADS ABOVE FOR SPACE OPEN TO STRUCTURE. TYP.

GENERAL LIFE SAFETY NOTES

WALL RATINGS
 - - - 1 HR FIRE BARRIER (FIRE STAIRS, ELEVATOR SHAFTS, MECH. SHAFTS, SHAFTS)
 - - - 2 HR FIRE WALL (BUILDING SEPARATION WALLS)
 - - - UL DESIGN NUMBERS - U489, U905, U916
 - - - UL DESIGN NUMBERS - U489, U905, U916
 - - - SMOKE PARTITION

KEYPLAN



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 Memphis, TN 38103
 901.487.6663
 www.arch1010.com

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801 South Spring Street
 Little Rock, AR 72201
 501.378.0878 office
 www.polkstanleywilcox.com



CONSULTANT / SEAL
 STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 GARY E. WHITTIER
 No. 15519
 10/17/2024

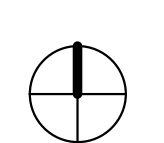
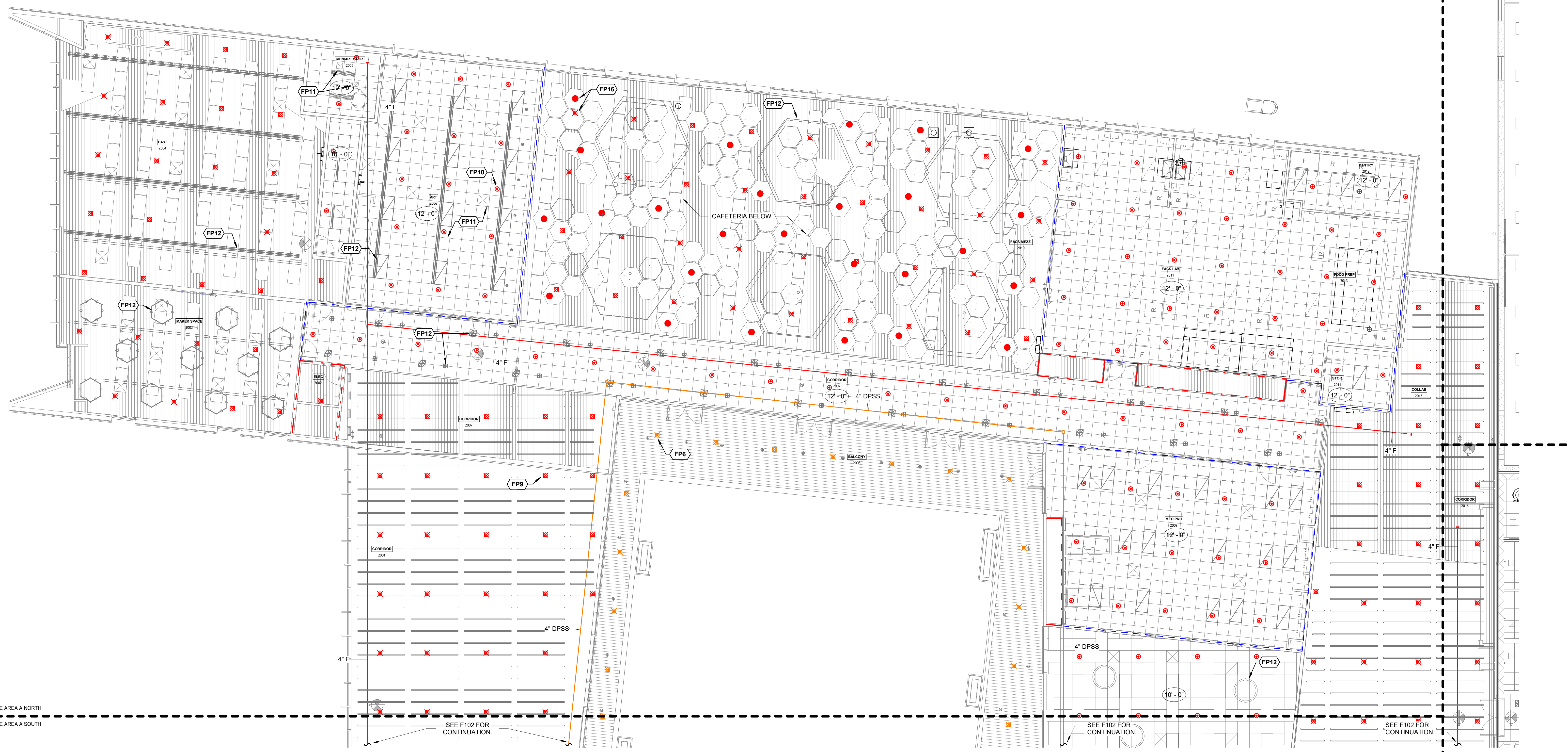
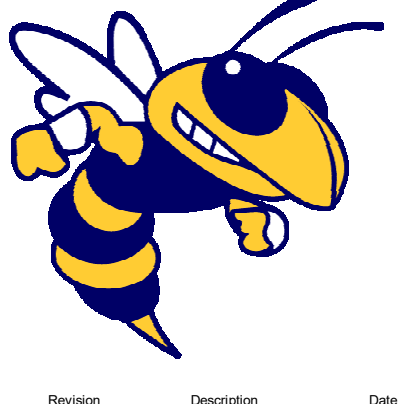
PROJECT NAME
 WSD - NEW SENIOR HIGH SCHOOL

LOCATION
 800 E JACKSON AVE
 WYNNE AR 72396

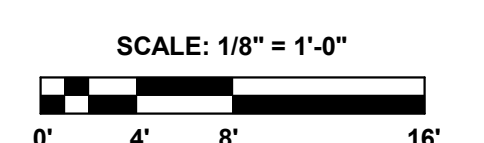
PROJECT NUMBER
 -

DEVELOPER/OWNER
 WYNNE SCHOOL DISTRICT

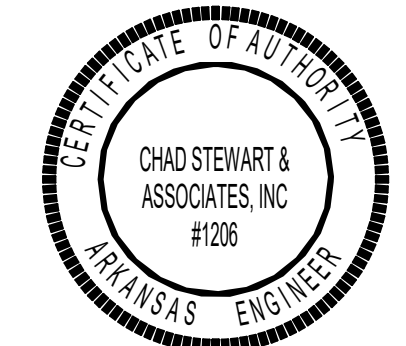
INFORMATION



1 SECOND FLOOR PLAN - AREA A NORTH - FIRE PROTECTION
 1/8" = 1'-0"



CSA PRODUCT NO. 24122
 Chad Stewart & Associates, Inc.
 9720 Village Circle Lakeland, TN 38002
 Phone 901-260-7850 CSAEngineeringinc.com



SHEET TITLE
 SECOND FLOOR PLAN - AREA A NORTH - FIRE PROTECTION

DATE
 17.10.24

SHEET NUMBER

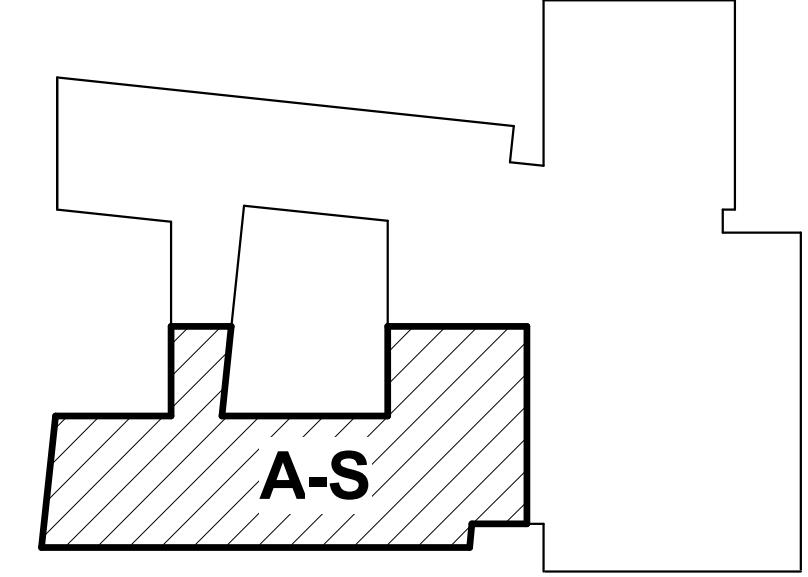
F102.1

#	FP KEYNOTE LEGEND
FP2	6" CLASS 1 STANDPIPE UP TO UPPER FL. GRS. INSTALL PER NFPA 14.
FP3	2-1/2" CLASS 1 STANDPIPE HOSE CONNECTION. 24'-0" AFF. INSTALL PER NFPA 14.
FP4	FLOOR CONTROL VALVE. SEE DETAIL.
FP5	PROVIDE UPRIGHT SPRINKLER HEADS BENEATH STAIRS AND LANDING ON FLOOR ABOVE.
FP6	PROVIDE DRY UPRIGHT SPRINKLER HEADS FOR OUTDOOR CANOPY AS REQUIRED BY NFPA 13. TYP.
FP9	PROVIDE UPRIGHT SPRINKLER HEADS FOR AREAS OPEN TO STRUCTURE. REF. ARCH. REFLECTED CEILING PLAN, TYP.
FP10	PROVIDE RECESSED PENDANT SPRINKLER HEADS FOR AREAS WITH CEILINGS. REF. ARCH. REFLECTED CEILING PLAN, TYP.
FP11	AIR TERMINAL. REF. MECH. TYP.
FP12	LIGHTING FIXTURE. REF. ELEC. TYP.

GENERAL LIFE SAFETY NOTES

- WALL RATINGS**
- 1 HR FIRE BARRIER (FIRE STAIRS, ELEVATOR SHAFTS, MECH. SHAFTS, SHAFTS)
 - UL DESIGN NUMBERS - U485, U995
 - 2 HR FIRE WALL (BUILDING SEPARATION WALLS)
 - UL DESIGN NUMBERS - U497, U995, U916
 - SMOKE PARTITION

KEYPLAN



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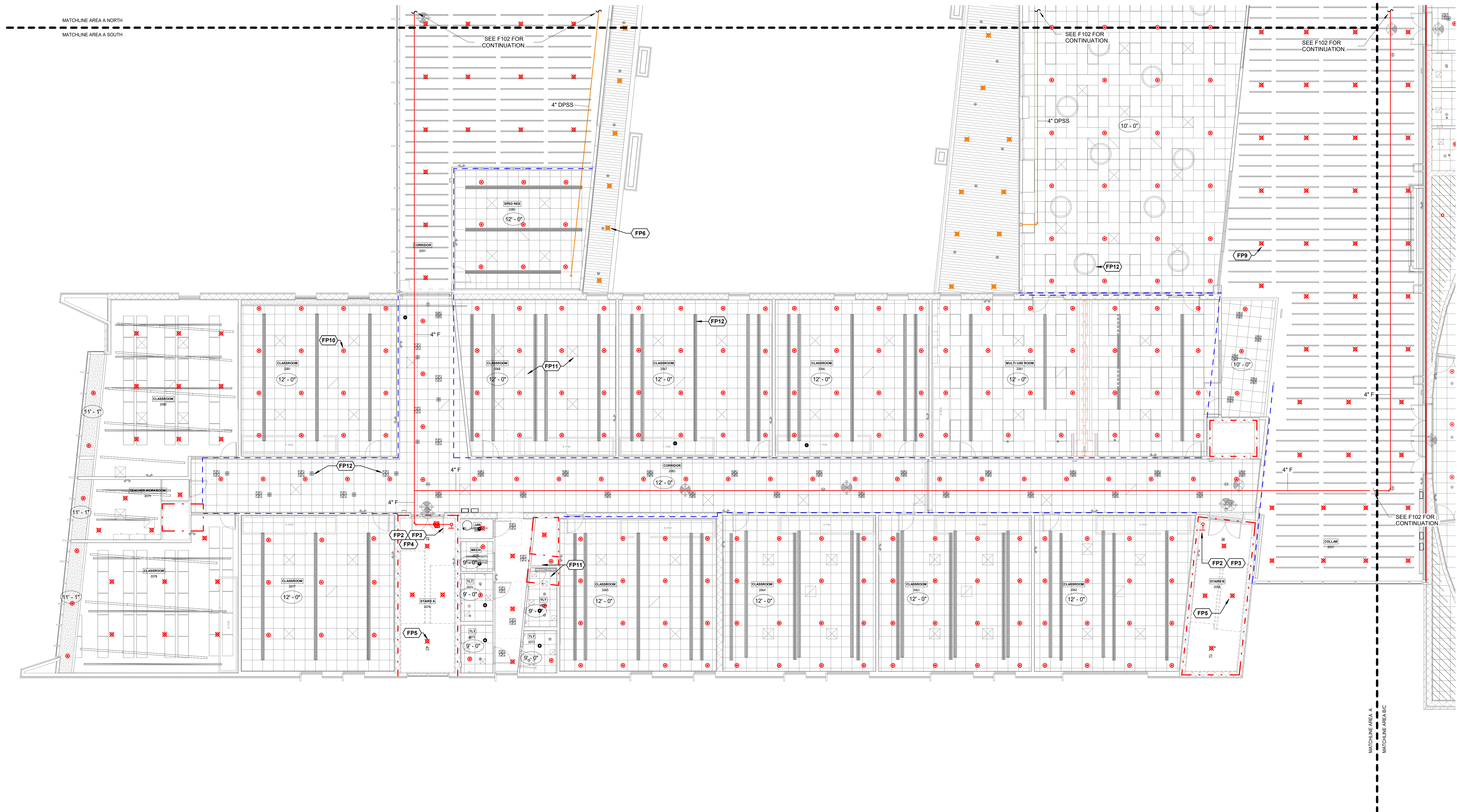
676 Marshall Ave., Suite 101
 Memphis, TN 38103
 901.497.6663
 www.arch1010.com

POLK STANLEY WILCOX

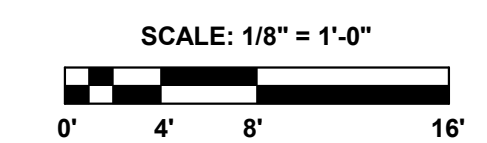
801 South Spring Street
 Little Rock, AR 72201
 501.378.0878 office
 www.polkstanleywilcox.com

CONSULTANT / SEAL

STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 GARY E. WHITTEN
 No. 15519
 10/17/2024



1 SECOND FLOOR PLAN - AREA A SOUTH - FIRE PROTECTION

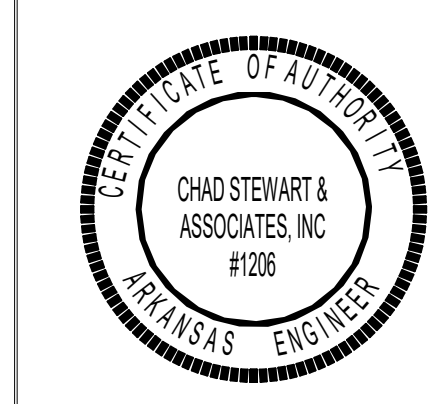
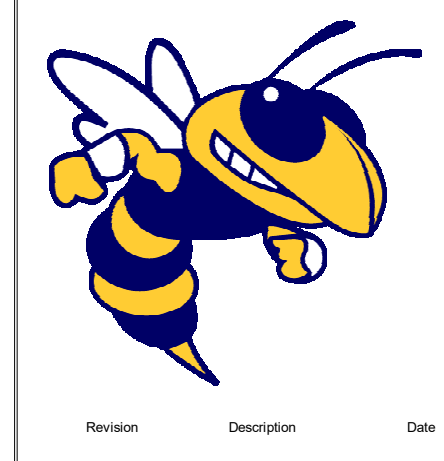


PROJECT NAME
 WSD - NEW SENIOR HIGH SCHOOL

LOCATION
 800 E JACKSON AVE
 WYNNE AR 72396

PROJECT NUMBER
 -

DEVELOPER/OWNER
 WYNNE SCHOOL DISTRICT



SHEET TITLE
 SECOND FLOOR PLAN - AREA A SOUTH - FIRE PROTECTION

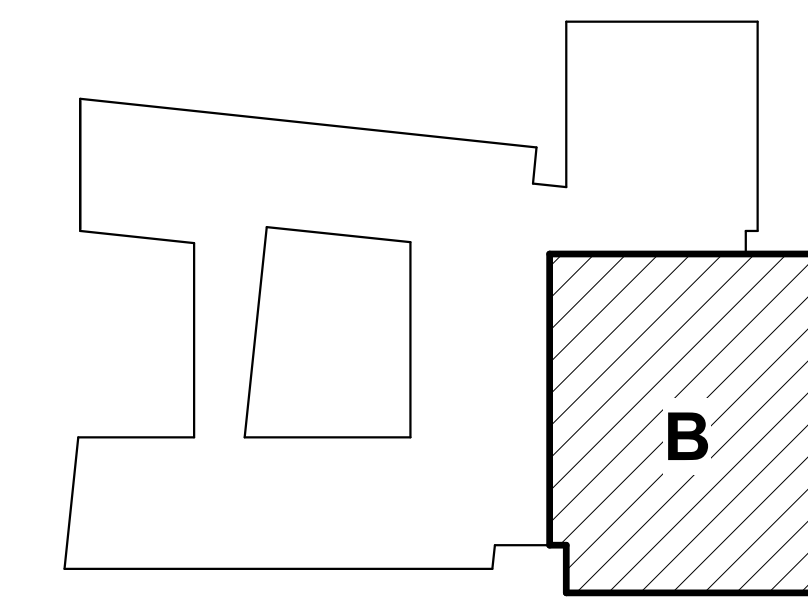
DATE
 17.10.24

SHEET NUMBER

GENERAL LIFE SAFETY NOTES

- WALL RATINGS**
- 1 HR FIRE BARRIER (FIRE STAIRS, ELEVATOR SHAFTS, MECH. SHAFTS, SHAFTS)
 - UL DESIGN NUMBERS - U485, U995
 - 2 HR FIRE WALL (BUILDING SEPARATION WALLS)
 - UL DESIGN NUMBERS - U497, U905, U916
 - SMOKE PARTITION

KEYPLAN



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#	FP KEYNOTE LEGEND
FP1	DASHED LINES INDICATE SMOKE VENT ABOVE. SPRINKLER HEADS SHALL NOT BE INSTALLED DIRECTLY UNDER ROOF VENT. (TYP. ALL SMOKE VENTS)
FP2	6" CLASS I STANDPIPE UP TO UPPER FLOORS. INSTALL PER NFPA 14.
FP3	2-1/2" CLASS I STANDPIPE HOSE CONNECTION. 34'-0" AFF. INSTALL PER NFPA 14.
FP4	FLOOR CONTROL VALVE. SEE DETAIL.
FP5	PROVIDE UPRIGHT SPRINKLER HEADS BENEATH STAIRS AND LANDING ON FLOOR ABOVE.
FP6	PROVIDE DRY UPRIGHT SPRINKLER HEADS FOR OUTDOOR CANOPY AS REQUIRED BY NFPA 13. TYP.
FP9	PROVIDE UPRIGHT SPRINKLER HEADS FOR AREAS OPEN TO STRUCTURE. REF. ARCH. REFLECTED CEILING PLAN. TYP.
FP10	PROVIDE RECESSED PENDANT SPRINKLER HEADS FOR AREAS WITH CEILING. REF. ARCH. REFLECTED CEILING PLAN. TYP.
FP11	AIR TERMINAL. REF. MECH. TYP.
FP12	LIGHTING FIXTURE. REF. ELEC. TYP.
FP16	PROVIDE CONCEALED SPRINKLER HEADS IN ACOUSTIC PANEL FOR PROTECTION UNDER OBSTRUCTION PER NFPA 13. PROVIDE UPRIGHT SPRINKLER HEADS ABOVE FOR SPACE OPEN TO STRUCTURE. TYP.

PROJECT NAME

WSD - NEW SENIOR HIGH SCHOOL

LOCATION

800 E JACKSON AVE
WYNNE AR 72396

PROJECT NUMBER

-

DEVELOPER/OWNER

WYNNE SCHOOL DISTRICT

INFORMATION



Revision Description Date

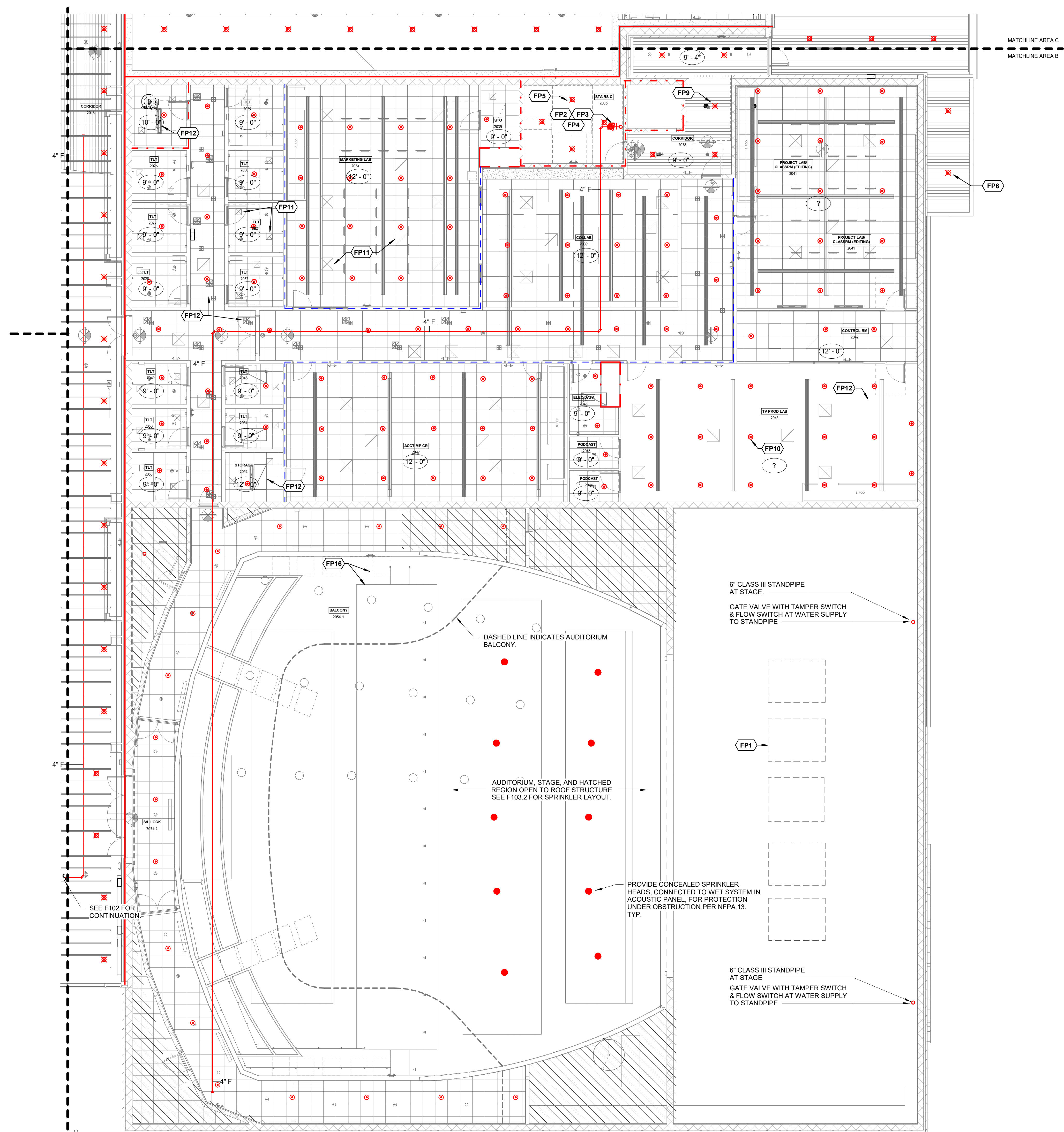


SHEET TITLE
SECOND FLOOR PLAN -
AREA B - FIRE
PROTECTION

DATE
17.10.24

SHEET NUMBER

F102.3



6" CLASS III STANDPIPE
AT STAGE.
GATE VALVE WITH TAMPER SWITCH
& FLOW SWITCH AT WATER SUPPLY
TO STANDPIPE

DASHED LINE INDICATES AUDITORIUM
BALCONY.

AUDITORIUM, STAGE, AND HATCHED
REGION OPEN TO ROOF STRUCTURE
SEE F103.2 FOR SPRINKLER LAYOUT.

PROVIDE CONCEALED SPRINKLER
HEADS, CONNECTED TO WET SYSTEM IN
ACOUSTIC PANEL, FOR PROTECTION
UNDER OBSTRUCTION PER NFPA 13.
TYP.

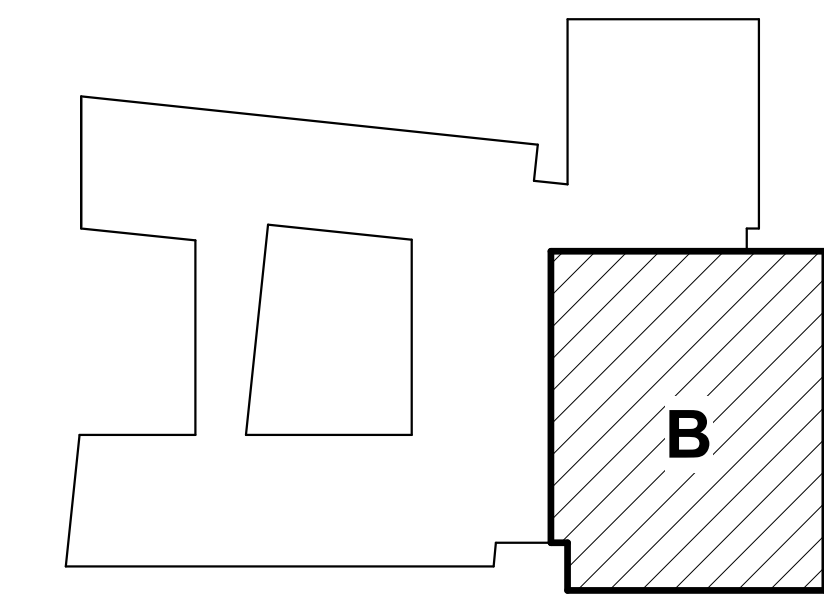
6" CLASS III STANDPIPE
AT STAGE.
GATE VALVE WITH TAMPER SWITCH
& FLOW SWITCH AT WATER SUPPLY
TO STANDPIPE

1 SECOND FLOOR PLAN - AREA B - FIRE PROTECTION
1/8" = 1'-0"
SCALE: 1/8" = 1'-0"
0' 4' 8' 16'

GENERAL LIFE SAFETY NOTES

- WALL RATINGS**
- 1 HR FIRE BARRIER (FIRE STAIRS, ELEVATOR SHAFTS, MECH. SHAFTS, SHAFTS)
 - UL DESIGN NUMBERS - U485, U995
 - 2 HR FIRE WALL (BUILDING SEPARATION WALL)
 - UL DESIGN NUMBERS - U497, U905, U916
 - SMOKE PARTITION

KEYPLAN



#	FP KEYNOTE LEGEND
FP4	FLOOR CONTROL VALVE. SEE DETAIL.
FP6	PROVIDE DRY UPRIGHT SPRINKLER HEADS FOR OUTDOOR CANOPY AS REQUIRED BY NFPA 13. TYP.
FP9	PROVIDE UPRIGHT SPRINKLER HEADS FOR AREAS OPEN TO STRUCTURE. REF. ARCH. REFLECTED CEILING PLAN. TYP.
FP10	PROVIDE RECESSED PENDANT SPRINKLER HEADS FOR AREAS WITH CEILING. REF. ARCH. REFLECTED CEILING PLAN. TYP.
FP11	AIR TERMINAL. REF. MECH. TYP.
FP12	LIGHTING FIXTURE. REF. ELEC. TYP.

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PROJECT NAME

WSD - NEW SENIOR HIGH SCHOOL

LOCATION

800 E JACKSON AVE
WYNNE AR 72396

PROJECT NUMBER

-

DEVELOPER/OWNER

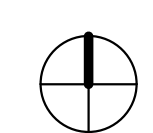
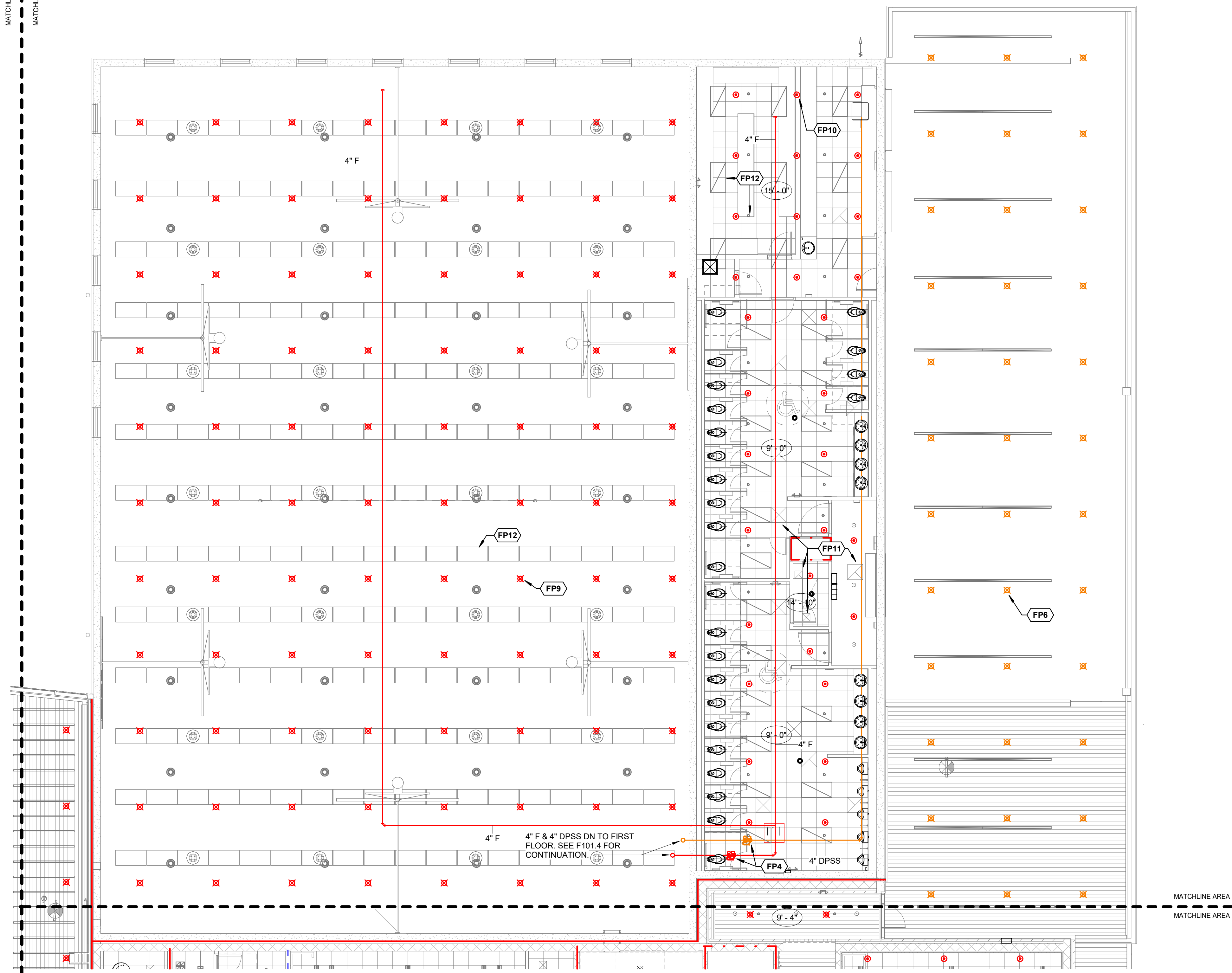
WYNNE SCHOOL DISTRICT

INFORMATION

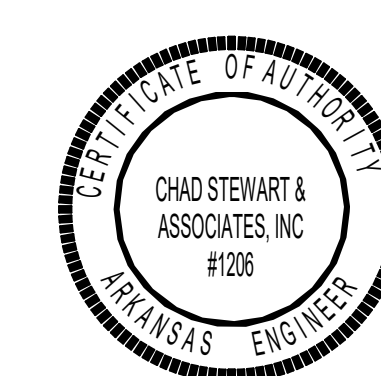
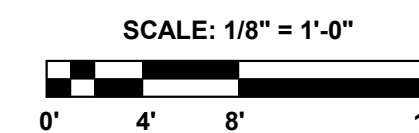


Revision Description Date

MATCHLINE AREA A
MATCHLINE AREA B/C



1 SECOND FLOOR PLAN - AREA C - FIRE PROTECTION
1/8" = 1'-0"



SHEET TITLE

SECOND FLOOR PLAN - AREA C - FIRE PROTECTION

DATE

17.10.24

SHEET NUMBER

F102.4

GENERAL LIFE SAFETY NOTES

- WALL RATINGS**
- 1 HR FIRE BARRIER (FIRE STAIRS, ELEVATOR SHAFTS, MECH. SHAFTS, SHAFTS)
 - UL DESIGN NUMBERS - U469, U605
 - 2 HR FIRE WALL (BUILDING SEPARATION WALL)
 - UL DESIGN NUMBERS - U497, U805, U816
 - SMOKE PARTITION

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PROJECT NAME

WSD - NEW SENIOR HIGH SCHOOL

LOCATION

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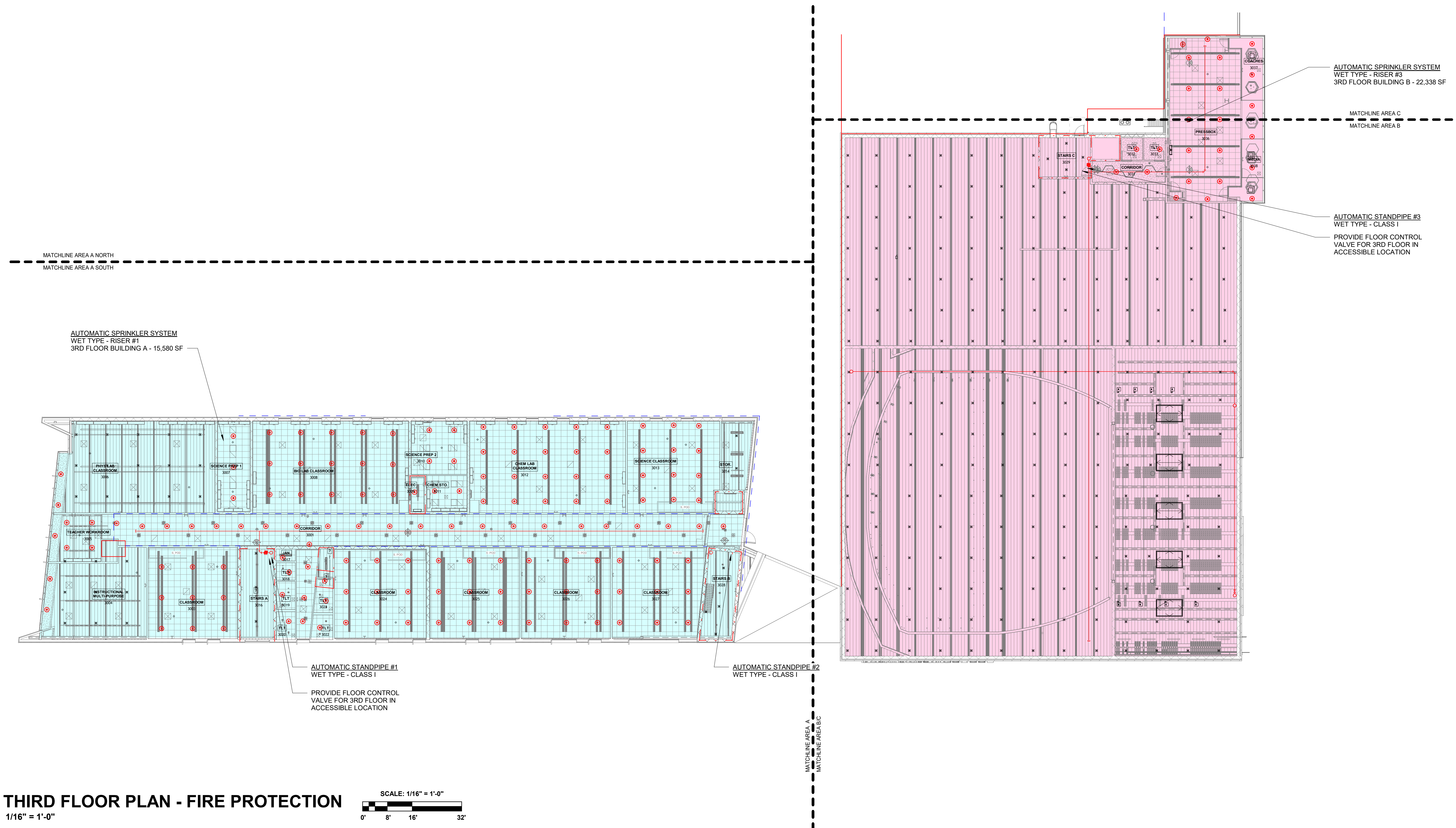
PROJECT NUMBER

-

DEVELOPER/OWNER

WYNNE SCHOOL DISTRICT

INFORMATION



1 THIRD FLOOR PLAN - FIRE PROTECTION
 1/16" = 1'-0"



SHEET TITLE
 THIRD FLOOR PLAN - FIRE PROTECTION

DATE
 17.10.24

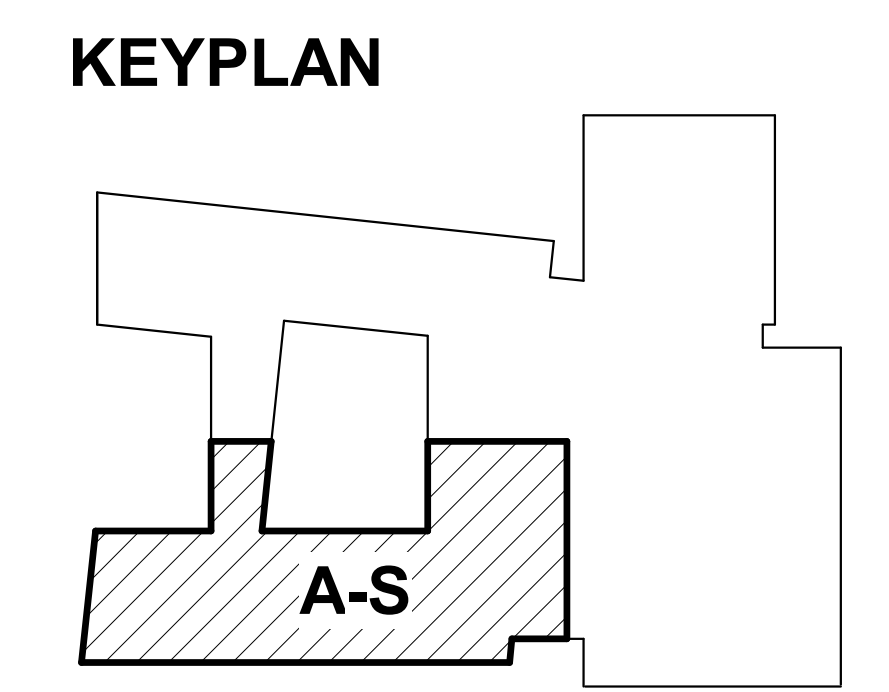
SHEET NUMBER

F103

FP KEYNOTE LEGEND	
FP2	6" CLASS 1 STANDPIPE UP TO UPPER FLOORS. INSTALL PER NFPA 14.
FP3	2-1/2" CLASS 1 STANDPIPE HOSE CONNECTION. ±4'-0" AFF. INSTALL PER NFPA 14.
FP4	FLOOR CONTROL VALVE. SEE DETAIL.
FP5	PROVIDE UPRIGHT SPRINKLER HEADS BENEATH STAIRS AND LANDING ON FLOOR ABOVE.
FP9	PROVIDE UPRIGHT SPRINKLER HEADS FOR AREAS OPEN TO STRUCTURE. REF. ARCH. REFLECTED CEILING PLAN, TYP.
FP10	PROVIDE RECESSED PENDANT SPRINKLER HEADS FOR AREAS WITH CEILINGS. REF. ARCH. REFLECTED CEILING PLAN, TYP.
FP11	AIR TERMINAL. REF. MECH. TYP.
FP12	LIGHTING FIXTURE. REF. ELEC. TYP.
FP17	PROVIDE 2-1/2" ROOFTOP STANDPIPE HOSE CONNECTION AS REQUIRED BY NFPA 14. SEE DETAIL.

GENERAL LIFE SAFETY NOTES

- WALL RATINGS**
- 1 HR FIRE BARRIER (FIRE STAIRS, ELEVATOR SHAFTS, MECH. SHAFTS, SHAFTS)
 - 2 HR FIRE WALL (BUILDING SEPARATION WALL)
 - UL DESIGN NUMBERS - U489, U995
 - UL DESIGN NUMBERS - U497, U905, U916
 - SMOKE PARTITION



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CONSULTANT / SEAL
 STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
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 10/17/2024

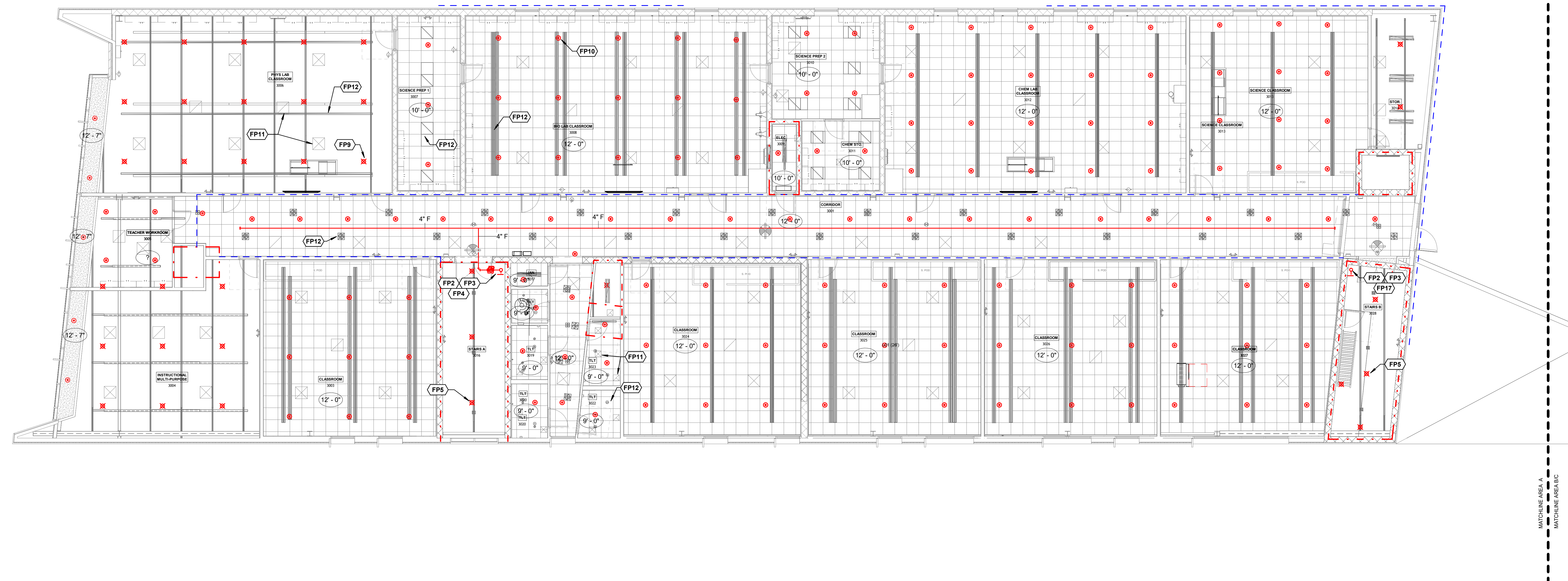
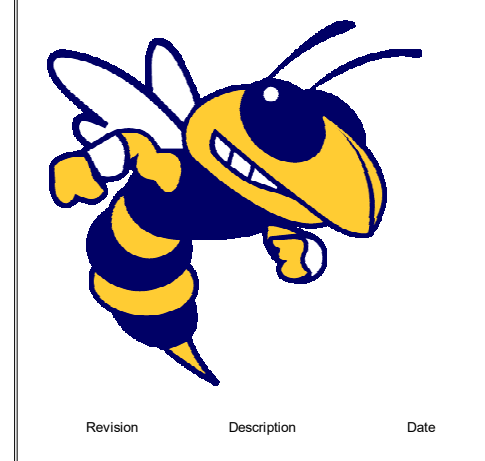
PROJECT NAME
 WSD - NEW SENIOR HIGH SCHOOL

LOCATION
 800 E JACKSON AVE
 WYNNE AR 72396

PROJECT NUMBER
 -

DEVELOPER/OWNER
 WYNNE SCHOOL DISTRICT

INFORMATION



1 THIRD FLOOR PLAN - AREA A SOUTH - FIRE PROTECTION
 1/8" = 1'-0"

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

0' 4' 8' 16'

REGISTERED PROFESSIONAL ENGINEER
 CHAD STEWART & ASSOCIATES, INC.
 #126
 ARKANSAS ENGINEER

SHEET TITLE
 THIRD FLOOR PLAN - AREA A SOUTH - FIRE PROTECTION

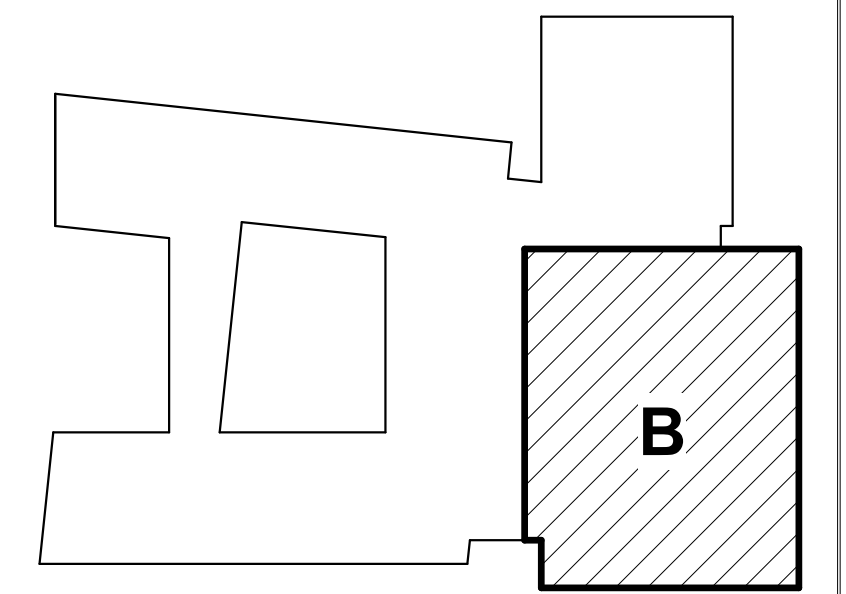
DATE
 17.10.24

SHEET NUMBER
 F103.1

GENERAL LIFE SAFETY NOTES

- WALL RATINGS**
- 1 HR FIRE BARRIER (FIRE STAIRS, ELEVATOR SHAFTS, MECH. SHAFTS, SHAFTS)
 - UL DESIGN NUMBERS - U485, U995
 - 2 HR FIRE WALL (BUILDING SEPARATION WALL)
 - UL DESIGN NUMBERS - U497, U905, U916
 - SMOKE PARTITION

KEYPLAN



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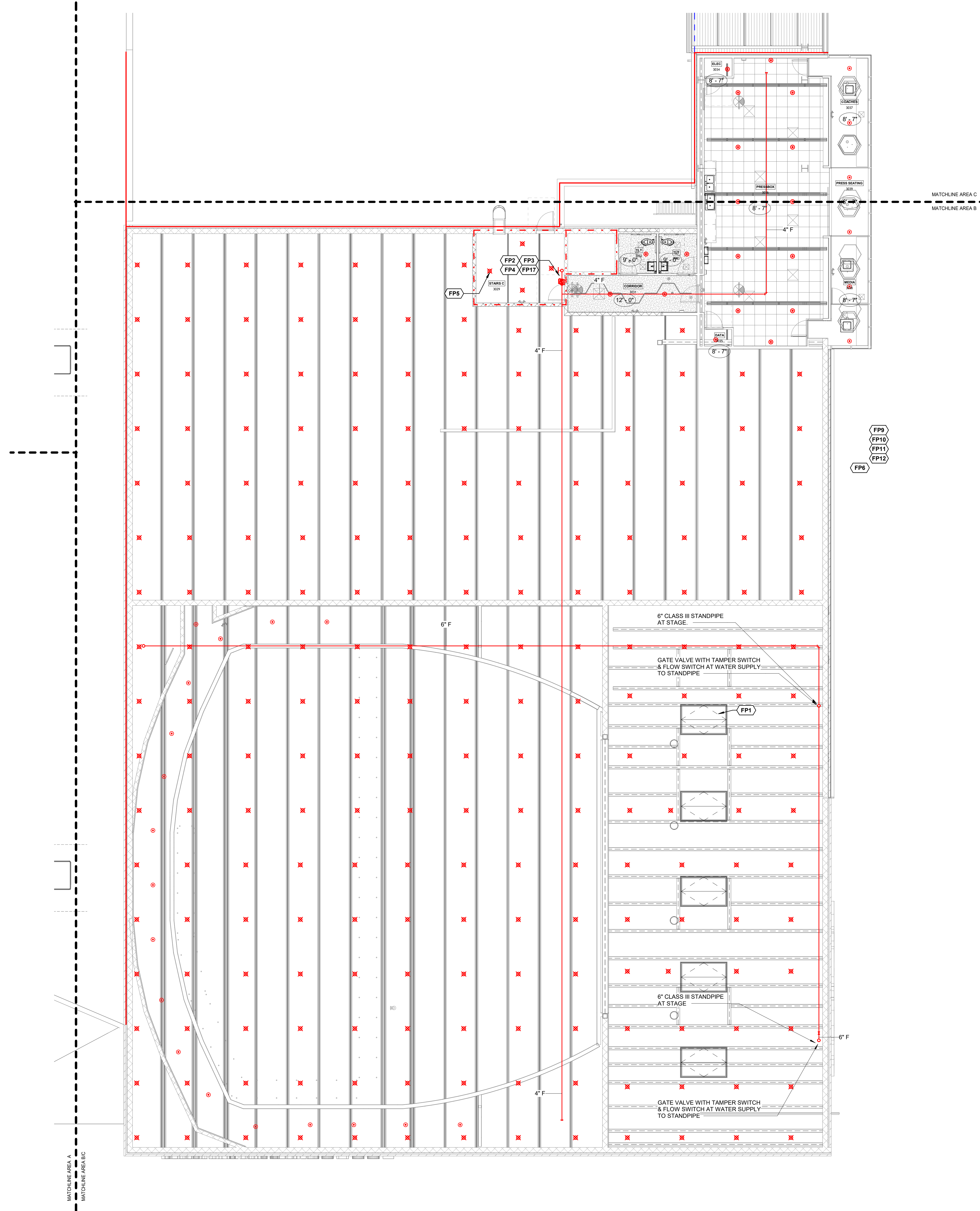
WYNNE SCHOOL DISTRICT

INFORMATION

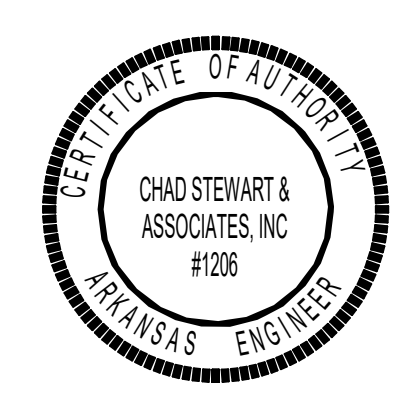
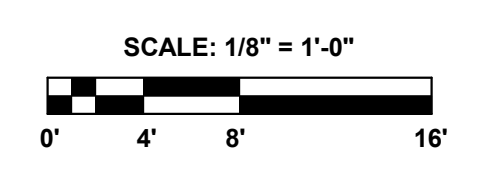


Revision Description Date

#	FP KEYNOTE LEGEND
FP1	DASHED LINES INDICATE SMOKE VENT ABOVE. SPRINKLER HEADS SHALL NOT BE INSTALLED DIRECTLY UNDER ROOF VENT. (TYP. ALL SMOKE VENTS)
FP2	6" CLASS I STANDPIPE UP TO UPPER FLOORS. INSTALL PER NFPA 14.
FP3	2-1/2" CLASS I STANDPIPE HOSE CONNECTION. 4'-0" AFF. INSTALL PER NFPA 14.
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FP5	PROVIDE UPRIGHT SPRINKLER HEADS BENEATH STAIRS AND LANDING ON FLOOR ABOVE.
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FP11	AIR TERMINAL. REF. MECH. TYP.
FP12	LIGHTING FIXTURE. REF. ELEC. TYP.
FP17	PROVIDE 2-1/2" ROOFTOP STANDPIPE HOSE CONNECTION AS REQUIRED BY NFPA 14. SEE DETAIL.



1 THIRD FLOOR PLAN - AREA B - FIRE PROTECTION
 1/8" = 1'-0"



SHEET TITLE
 THIRD FLOOR PLAN - AREA B - FIRE PROTECTION

DATE
 17.10.24

SHEET NUMBER

F103.2

PROJECT NAME

WSD - NEW SENIOR HIGH SCHOOL

LOCATION

800 E JACKSON AVE
 WYNNE AR 72396

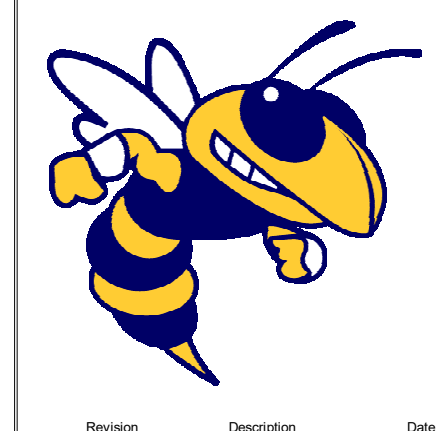
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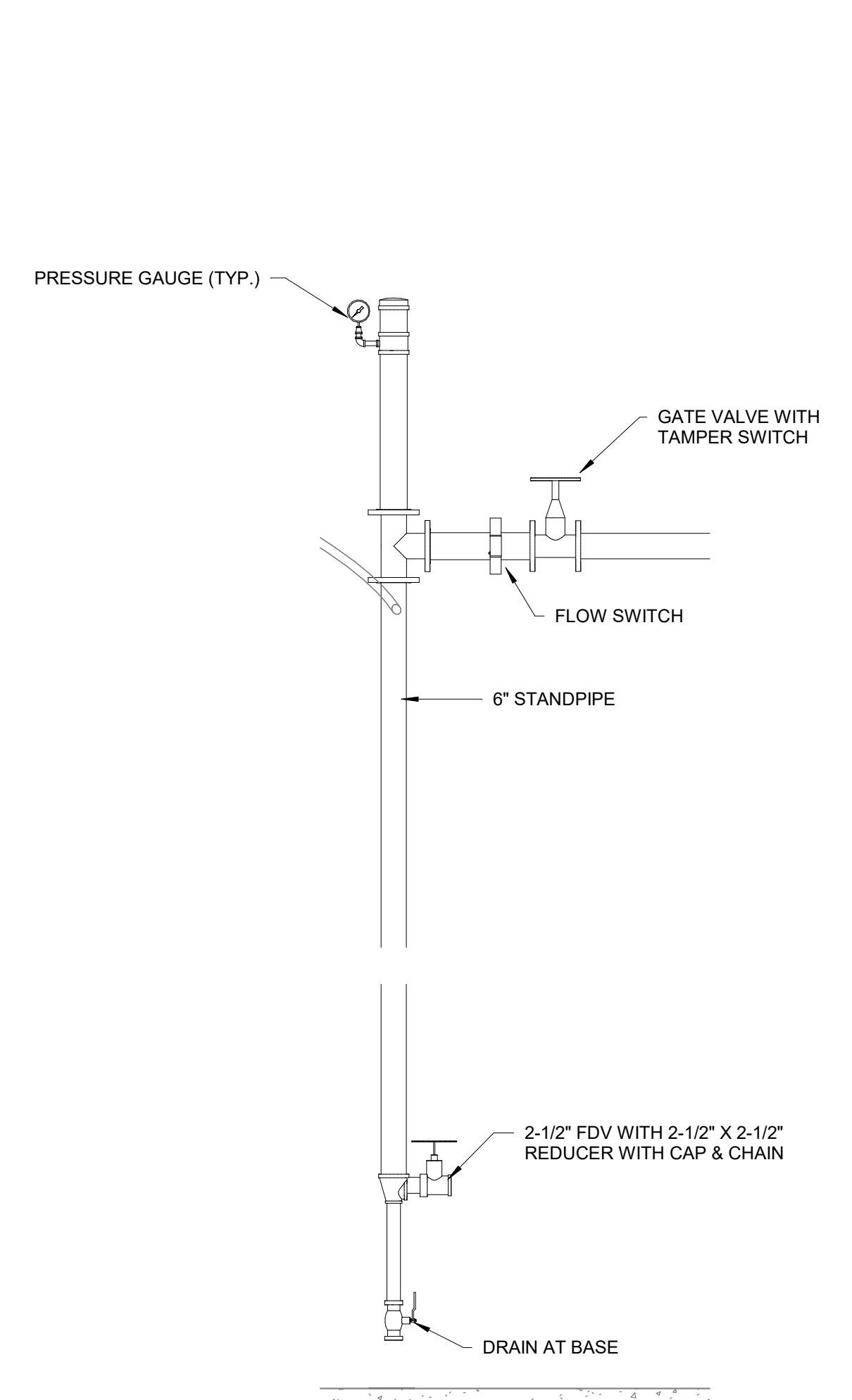
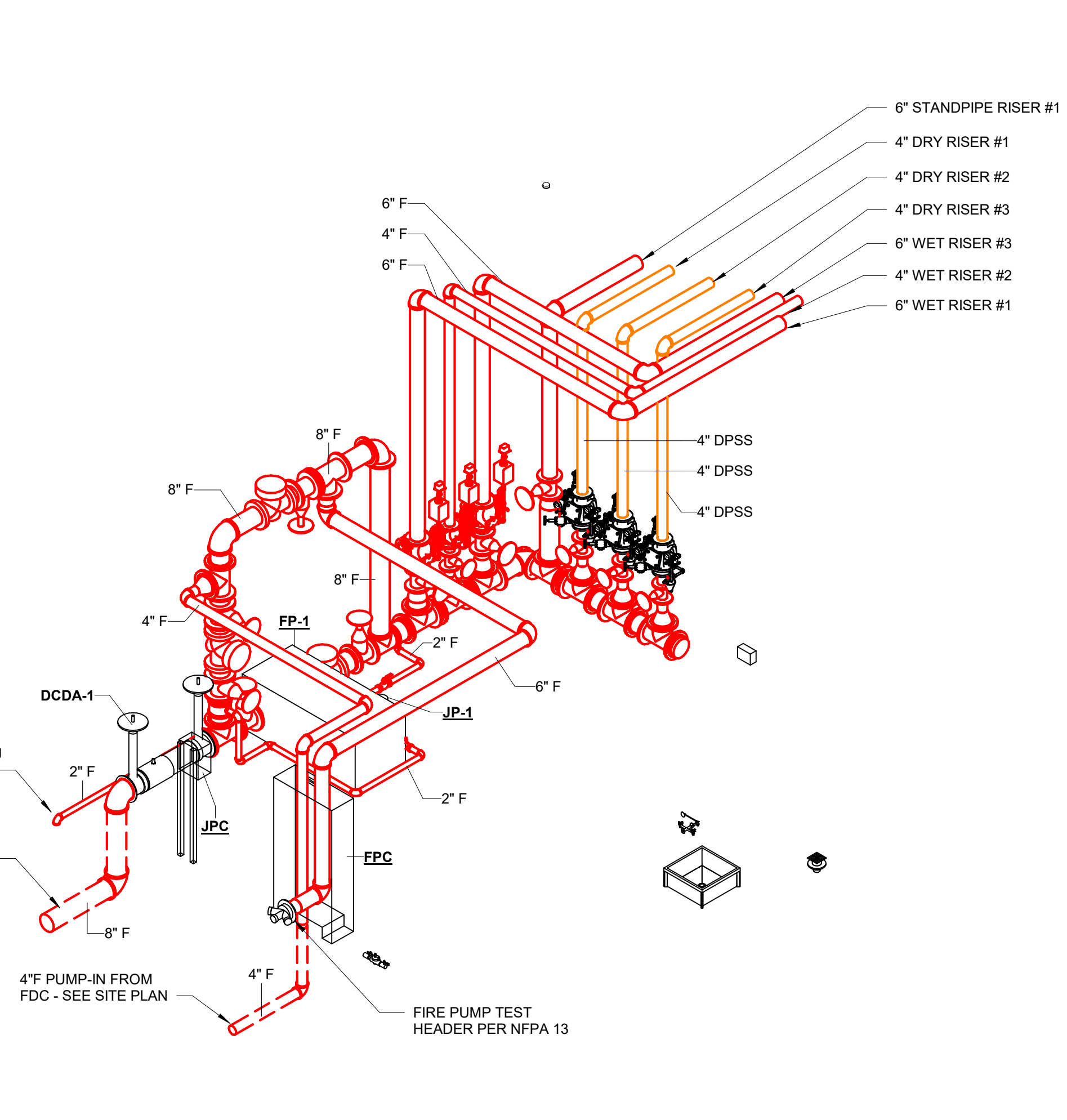
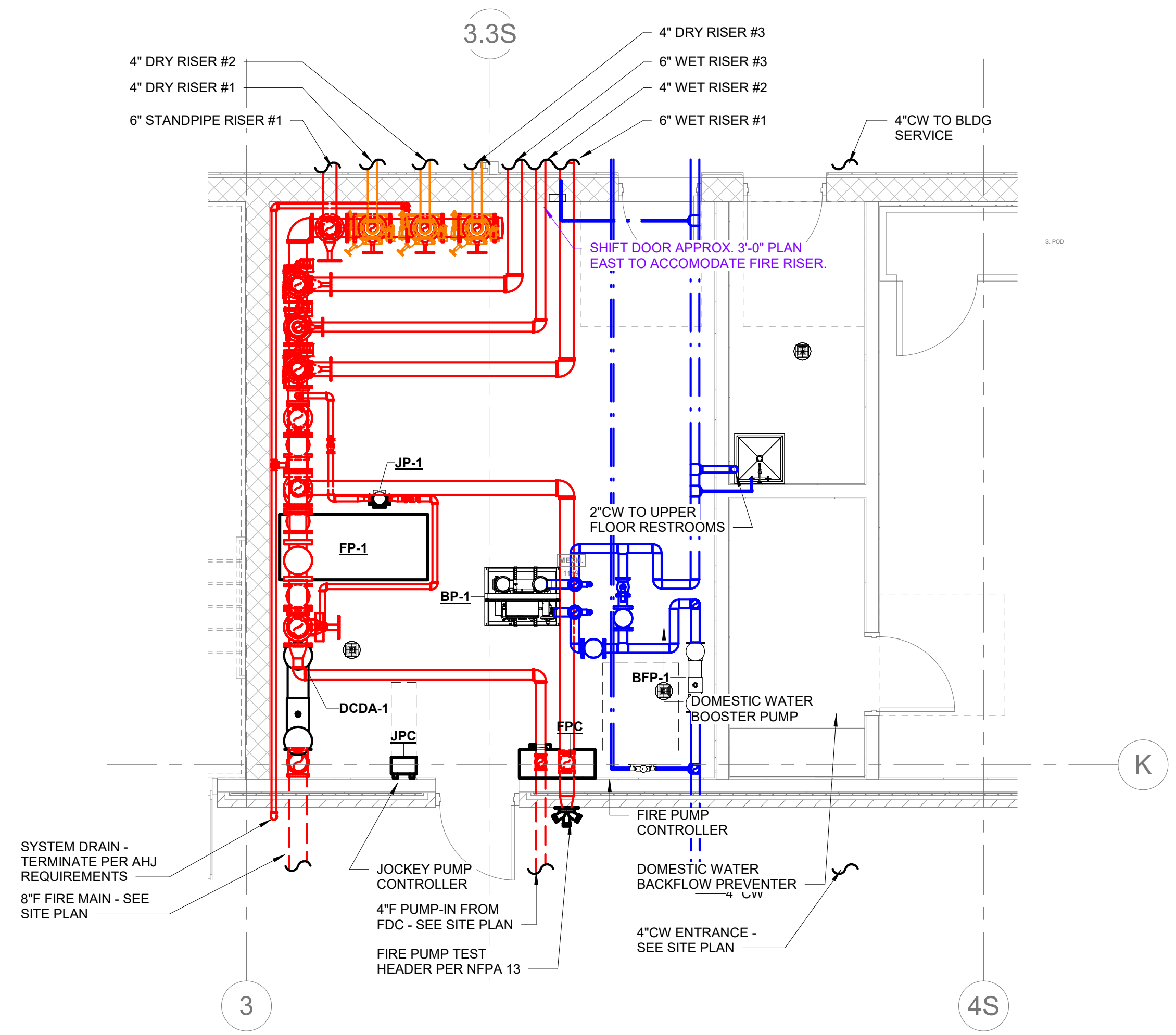
DEVELOPER/OWNER

WYNNE SCHOOL DISTRICT

INFORMATION



Revision: 4 Date: 10/20/24
 Description: AEC / AEC Comments



1 FIRE PUMP ROOM
 1/4" = 1'-0"

2 FIRE PUMP ISOMETRIC
 N.T.S.

3 STAGE STANDPIPE DETAIL
 N.T.S.

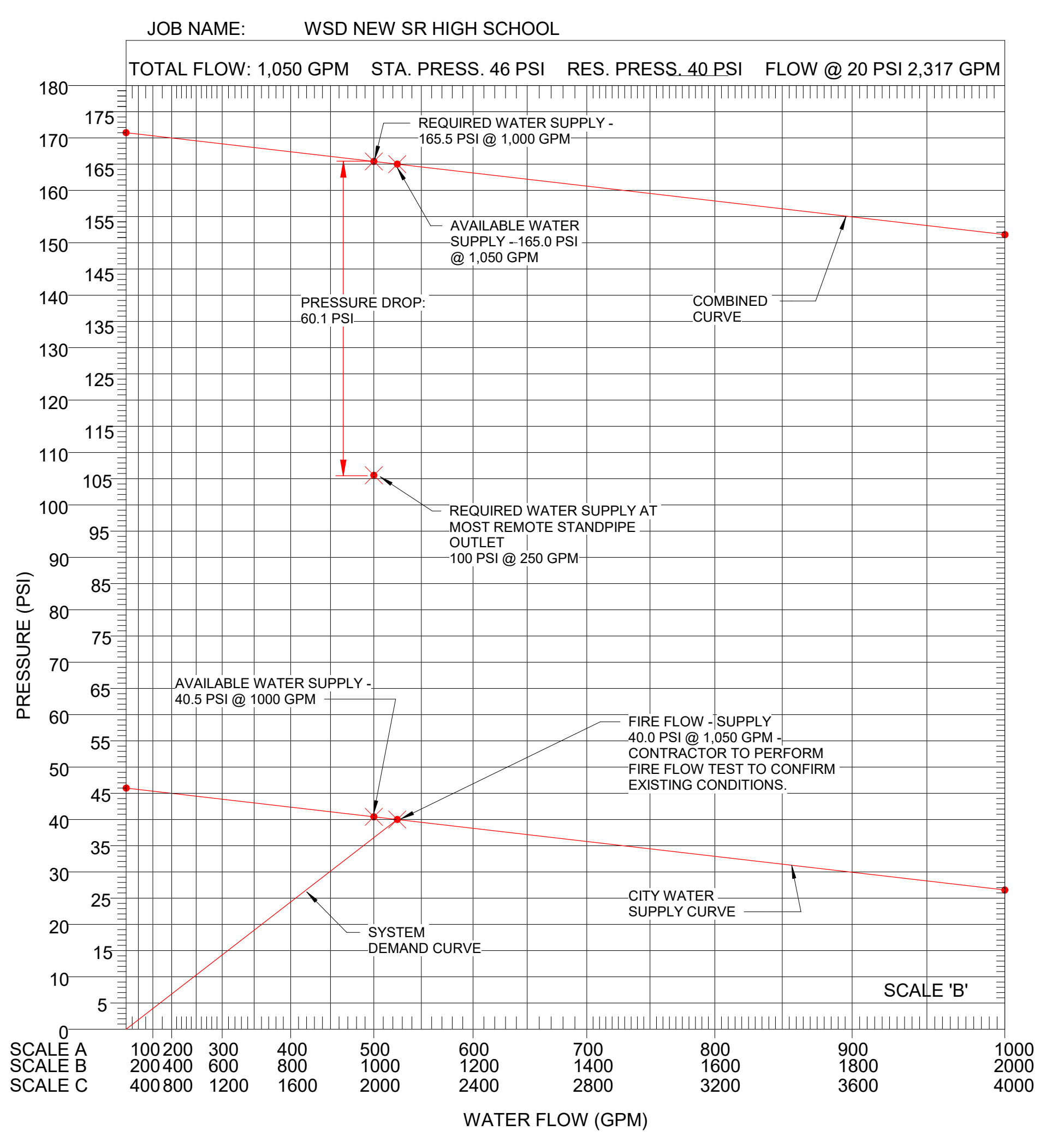
REMOTE AREA DESIGN CRITERIA

OCCUPANCY CLASSIFICATION:	LIGHT HAZARD
SPRINKLER CHARACTERISTICS:	K = 5.6; QR
DESIGN DENSITY:	0.10 GPM/SF
DESIGN FLOW AT SOURCE:	150 GPM
TOTAL DESIGN SPRINKLERS:	15 SPRINKLERS

STANDPIPE HYDRAULIC CALCULATIONS (WET RISER #3)

- A. SEE SITE PLAN FOR FLOW AND STATIC/RESIDUAL HYDRANTS.
- B. STATIC PRESSURE = 46 PSI
- C. RESIDUAL PRESSURE = 40 PSI WITH 1,050 GPM FLOWING
- D. FLOW HYDRANT ELEVATION = 0'-0"
- E. STATIC/RESIDUAL HYDRANT ELEVATION = 0'-0"
- F. GROUND FLOOR ELEVATION = 0'-0"
- G. MAX. HEIGHT OF SYSTEM ABOVE GRADE = 49'-0"
- H. PRESSURE LOSS TO HEIGHT = 49.0' x .4331 = 21.2 PSI
- I. PRESSURE LOSS TO PIPE AND FITTINGS = 60.1 PSI
- J. DELIVERY PRESSURE REQUIRED AT MOST REMOTE OUTLET = 100.0 PSI
- K. PRELIMINARY HYDRAULIC CALCULATIONS
 - HOSE ALLOWANCE FOR MOST REMOTE STANDPIPE HIGHEST OUTLET = 250 GPM
 - HOSE ALLOWANCE FOR MOST REMOTE STANDPIPE SECOND HIGHEST OUTLET = 250 GPM
 - HOSE ALLOWANCE FOR SECOND STAIRWELL STANDPIPE OUTLET = 250 GPM
 - HOSE ALLOWANCE FOR THIRD STAIRWELL STANDPIPE OUTLET = 1,000 GPM
 - TOTAL FLOW = 1,000 GPM
- L. MARGIN OF SAFETY - PRESSURE REQUIRED AT FURTHEST OUTLET = 10.00 PSI LOSS = 100.0 PSI LOSS
- SERVICE MAIN
 - 1,000 GPM - TOTAL EQUIV. LENGTH OF 8" PVC SERVICE MAIN = 1,500' @ 1.62' LOSS PER 100' OF PIPE = 24.3 x .4331 = 10.5 PSI LOSS
 - ELEVATION FROM CITY MAIN TO HIGHEST OUTLET = 49.0' x .4331 = 21.2 PSI LOSS
 - 8" BACKFLOW PREVENTER = 12.0 PSI LOSS
 - RISER CHECK VALVE = 0.50 PSI LOSS
 - FLOOR CONTROL VALVE ASSEMBLY = 1.00 PSI LOSS
 - GATE VALVES (2) = 0.30 PSI LOSS
- INSIDE PIPING
 - 250.0 GPM - TOTAL EQUIV. LENGTH OF 6" STEEL PIPE = 21.0' @ 0.45' LOSS PER 100' OF PIPE = 0.07 x .4331 = 0.03 PSI LOSS
 - 500.0 GPM - TOTAL EQUIV. LENGTH OF 6" STEEL PIPE = 60.5' @ 1.65' LOSS PER 100' OF PIPE = 9.98 x .4331 = 4.32 PSI LOSS
 - 1,000 GPM - TOTAL EQUIV. LENGTH OF 8" STEEL PIPE = 40.0' @ 1.55' LOSS PER 100' OF PIPE = 0.62 x .4331 = 0.27 PSI LOSS
- TOTAL LOSS = 60.1 PSI LOSS
- PRESSURE REQUIRED AT FURTHEST OUTLET = 100.00 PSI
- TOTAL PRESSURE REQUIRED AT FIRE FLOW = 160.1 PSI
- RESIDUAL PRESSURE AT FIRE FLOW = 40 PSI
- REQUIRED FIRE PUMP = 120.1 PSI

4 HYDRAULIC CALCS
 N.T.S.



5 SYSTEM DEMAND GRAPH
 N.T.S.

FIRE PUMP SCHEDULE

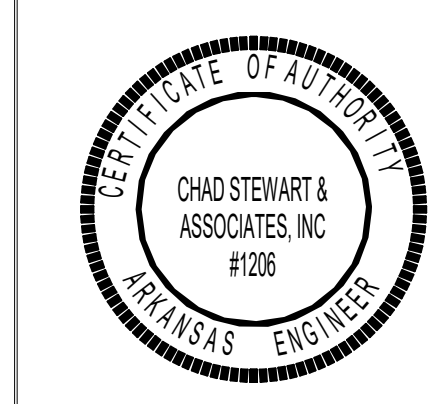
MARK	MANUFACTURER	MODEL	GPM	HEAD (PSI)	RPM	V/PH/Hz	HP	REMARKS	
FP-1	AC	FIRE PUMP	8100 8X8X9F	1000	125	3550	460/3/60	100	SEE NOTES.

- NOTES:
1. PROVIDE WITH ELECTRICAL DISCONNECT.
 2. UL LISTED HORIZONTAL SPLIT CASE ELECTRIC DRIVEN FIRE PUMP.
 3. PROVIDE 12 VDC OR 24 VDC NEGATIVE GROUND AUTO-TRANSFORMER SOFT START FIRE PUMP CONTROLLER

JOCKEY PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	GPM	HEAD (PSI)	RPM	V/PH/Hz	HP	REMARKS	
JP-1	AC	FIRE PUMP	35V-10	10	145	3500	115/1/60	2	SEE NOTES.

- NOTES:
1. PROVIDE WITH ELECTRICAL DISCONNECT.
 2. UL LISTED INLINE JOCKEY PUMP FOR FIRE PROTECTION SERVICE.
 3. PROVIDE FULL VOLTAGE STARTER AND MINIMUM RUN TIMER.

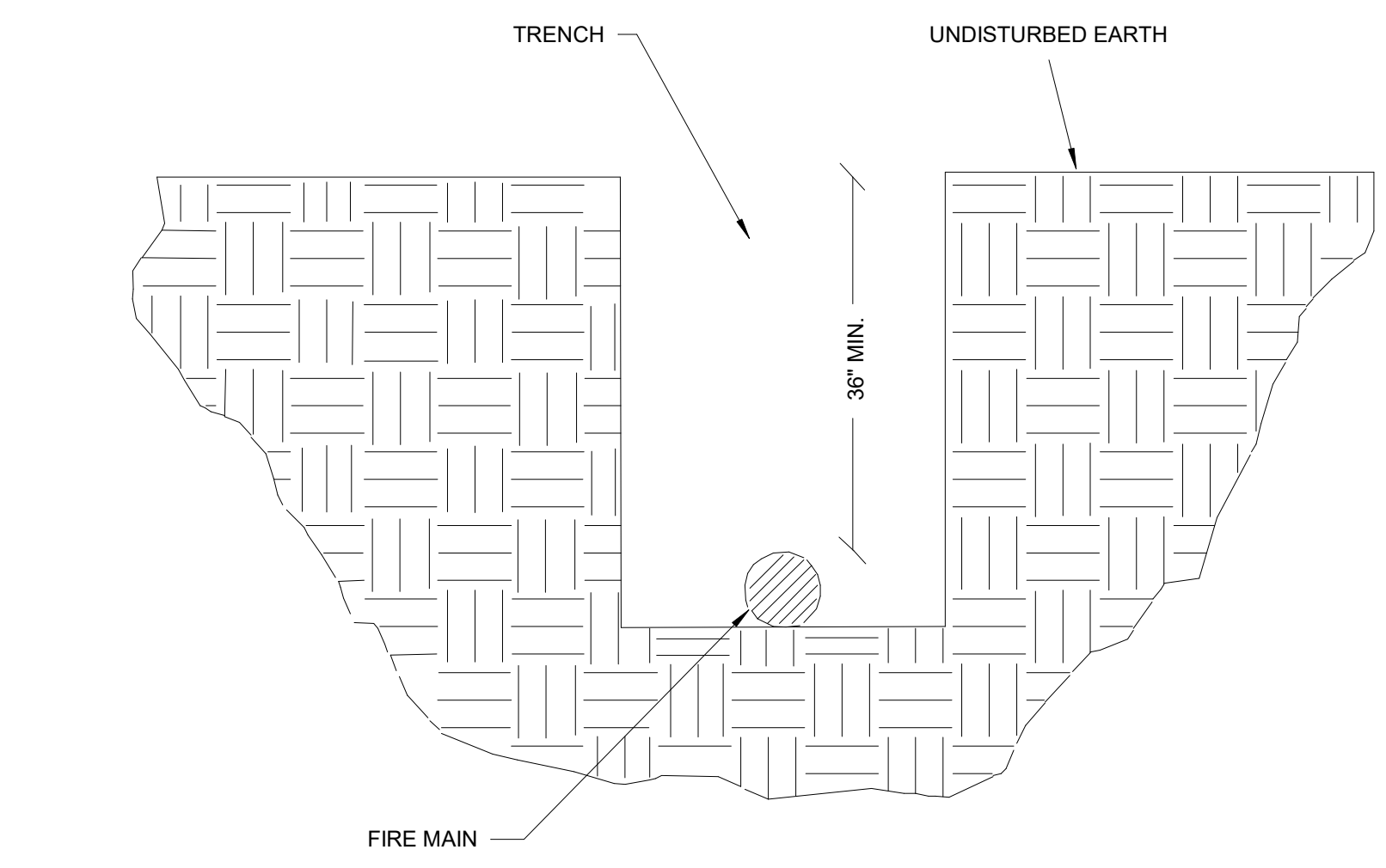
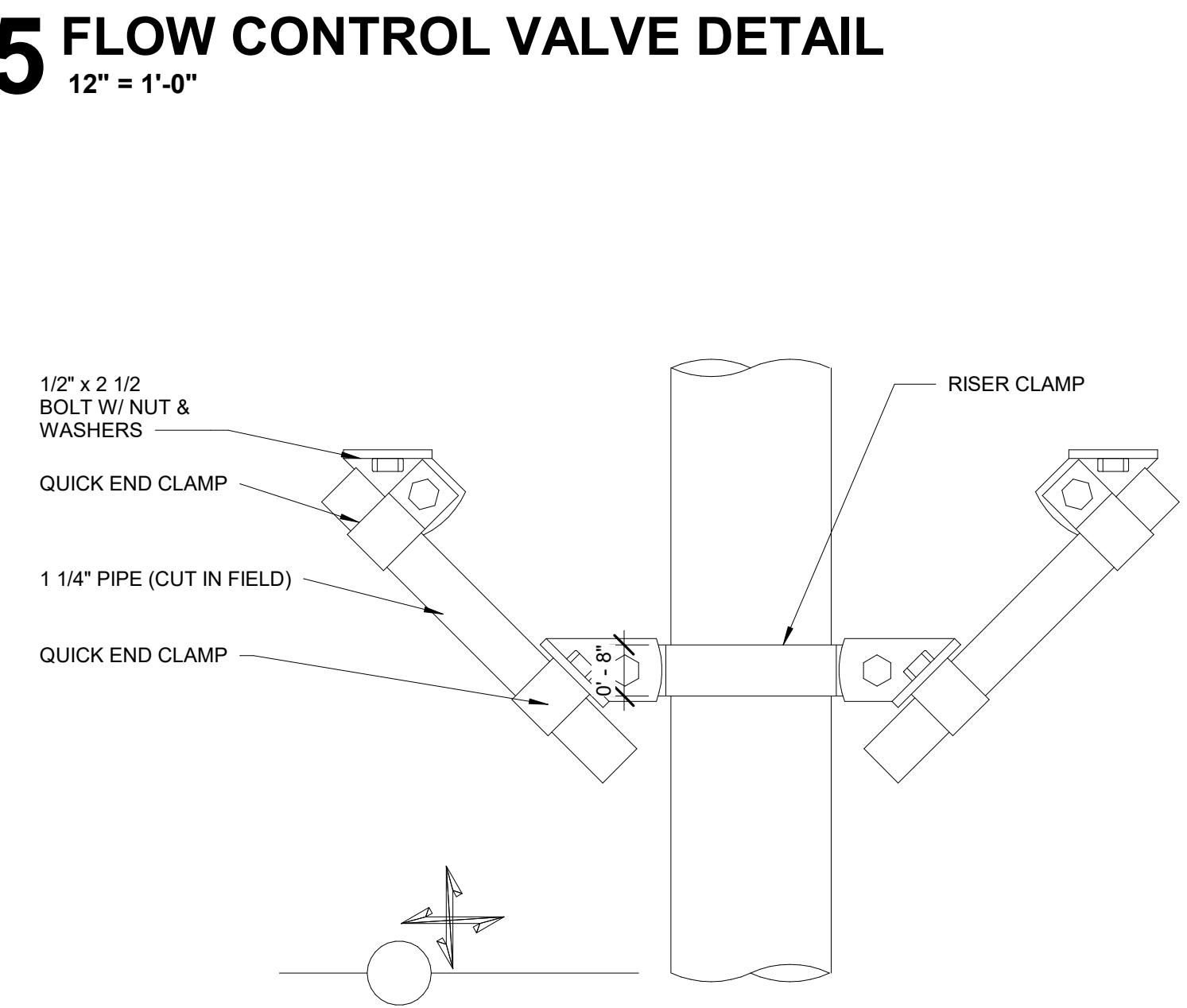
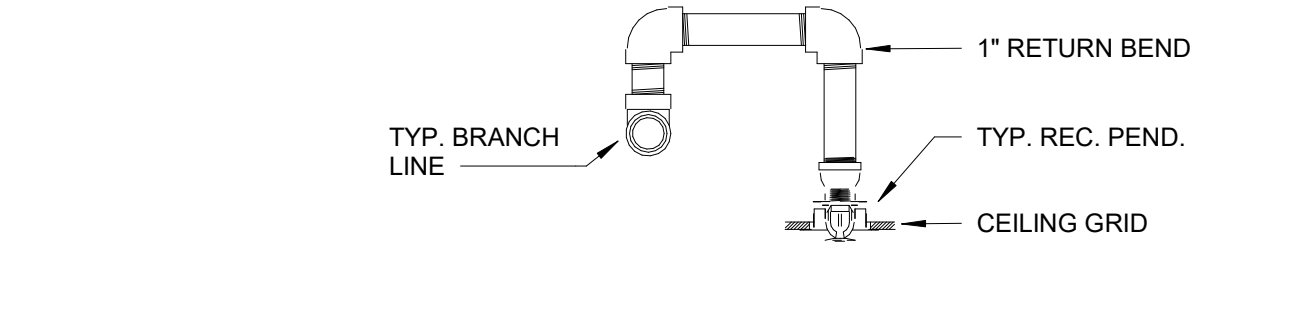
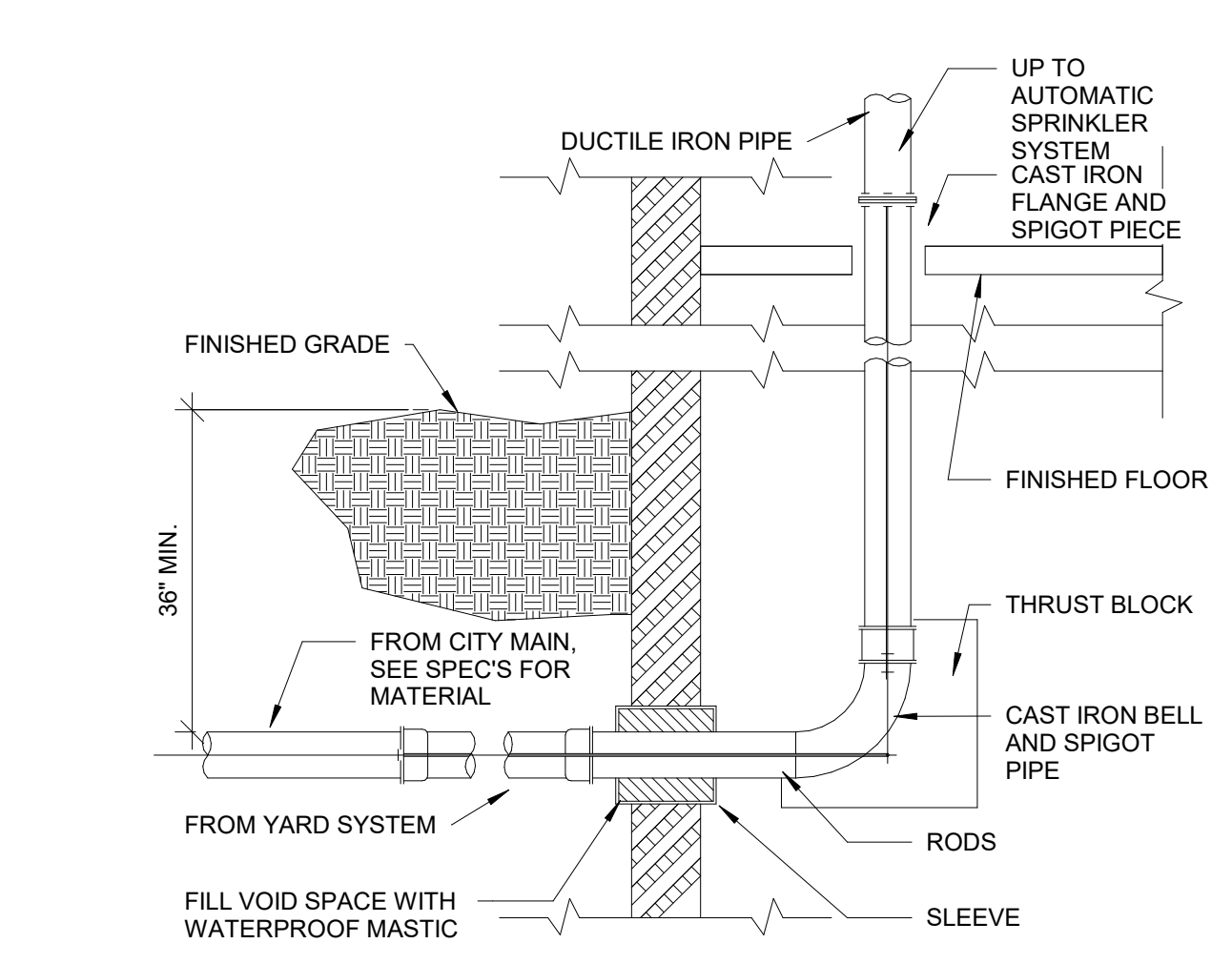
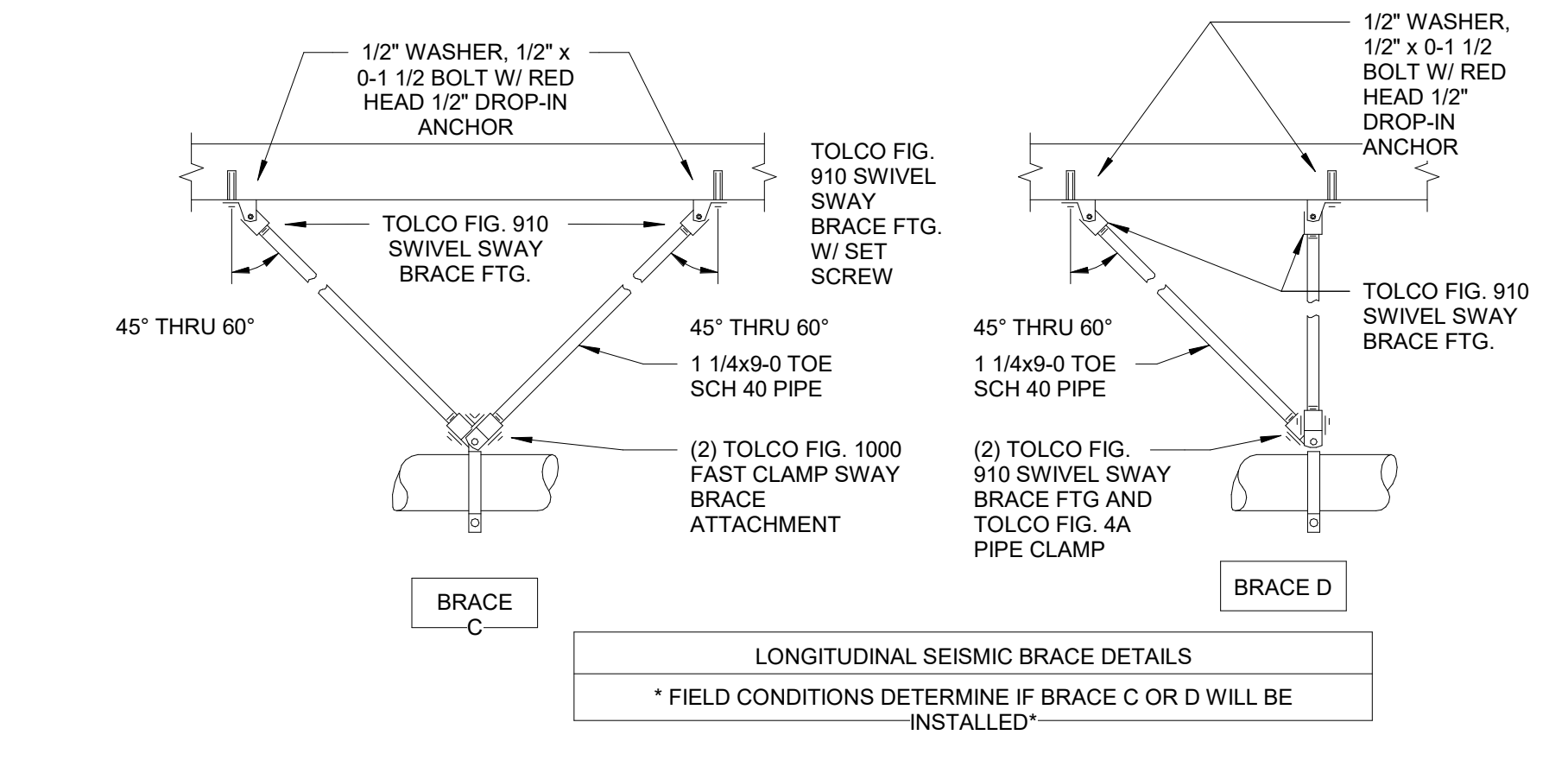
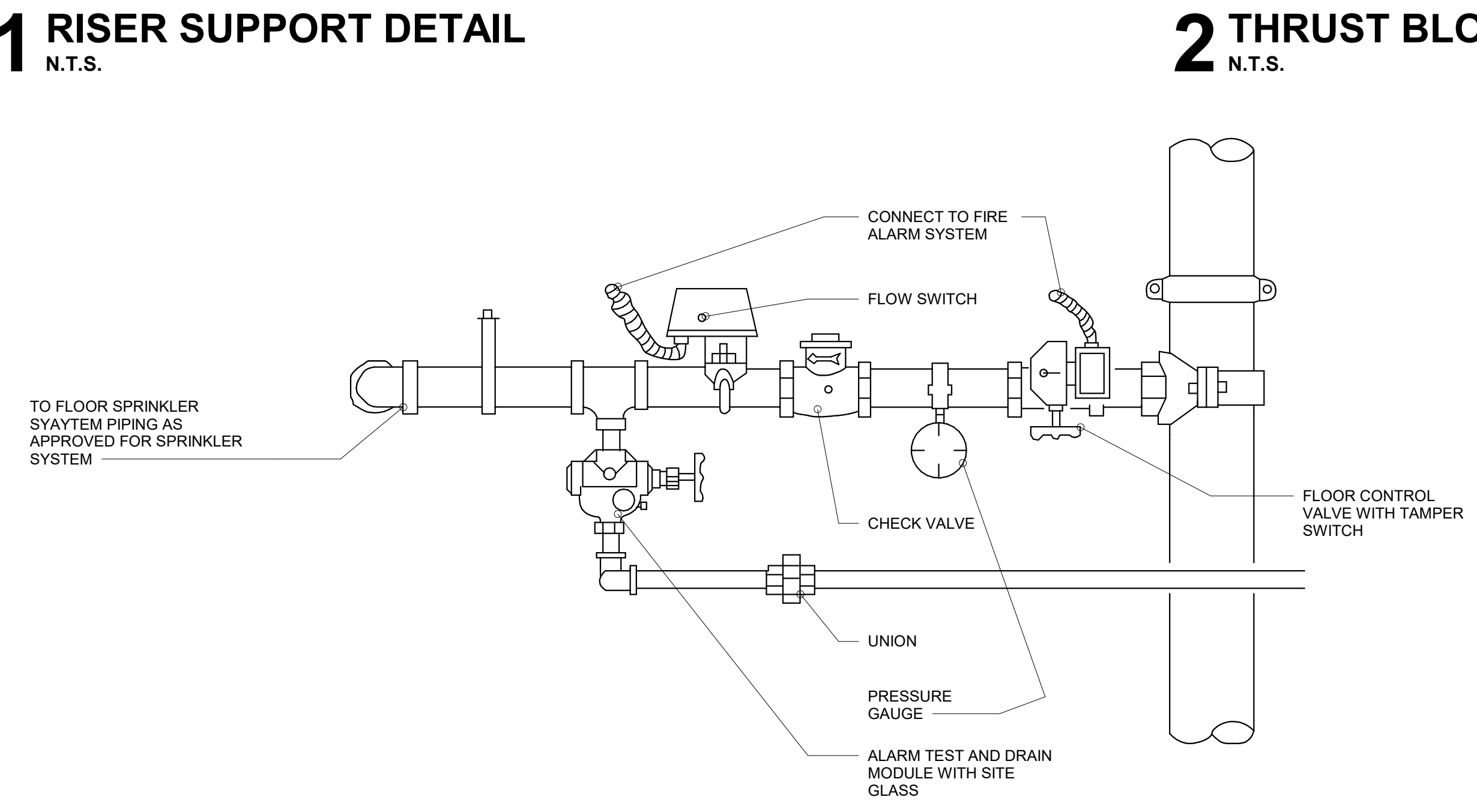
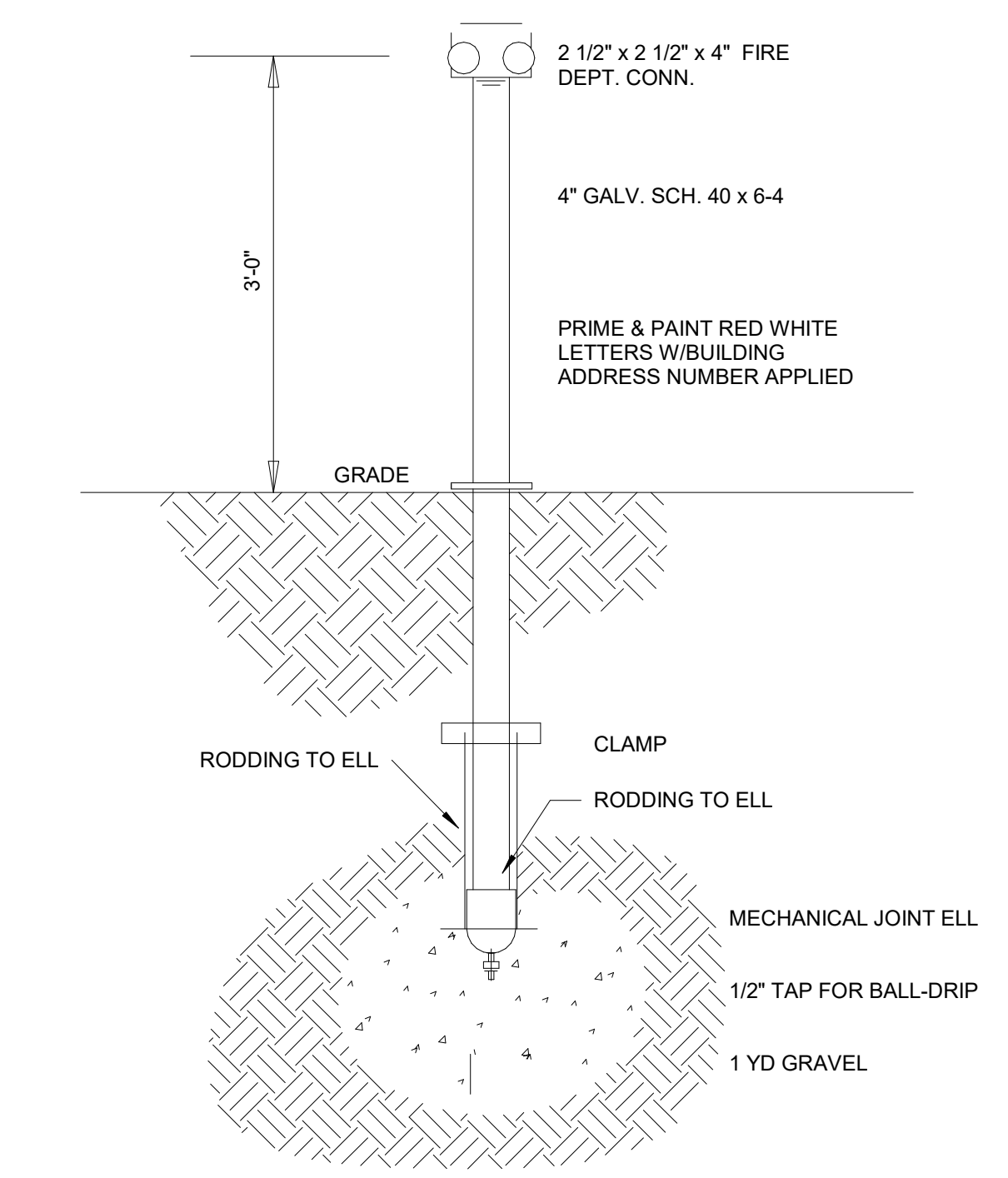
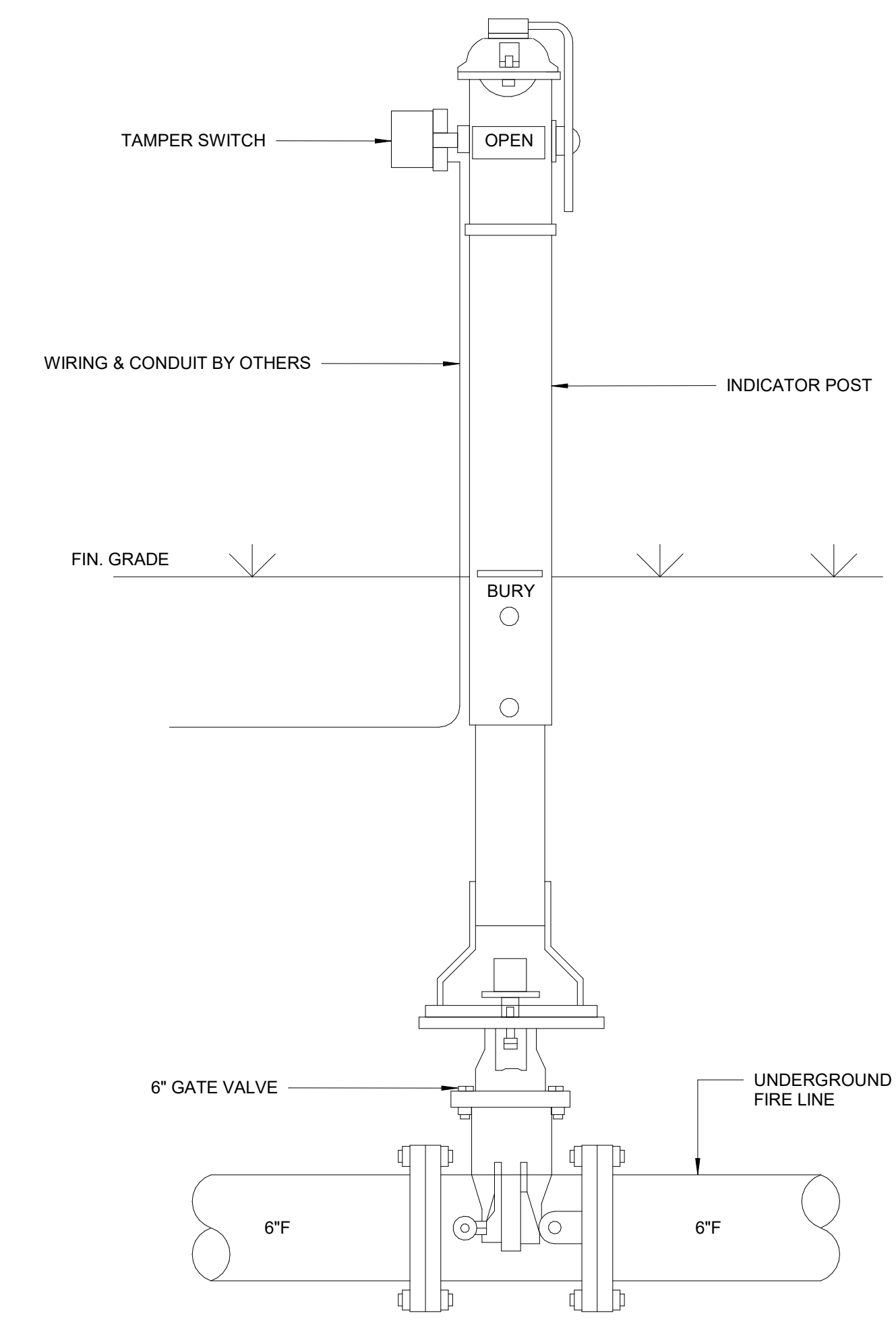
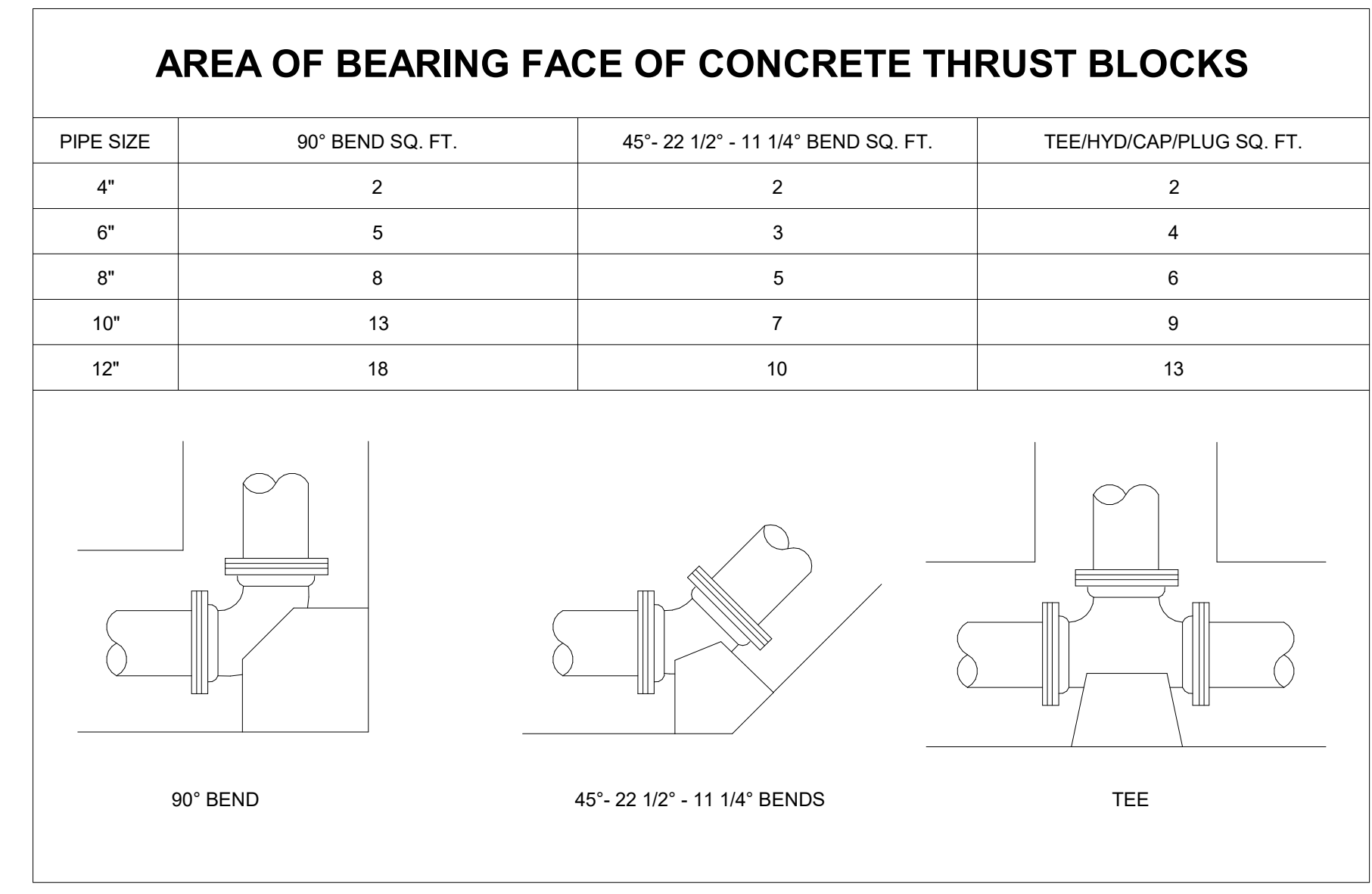
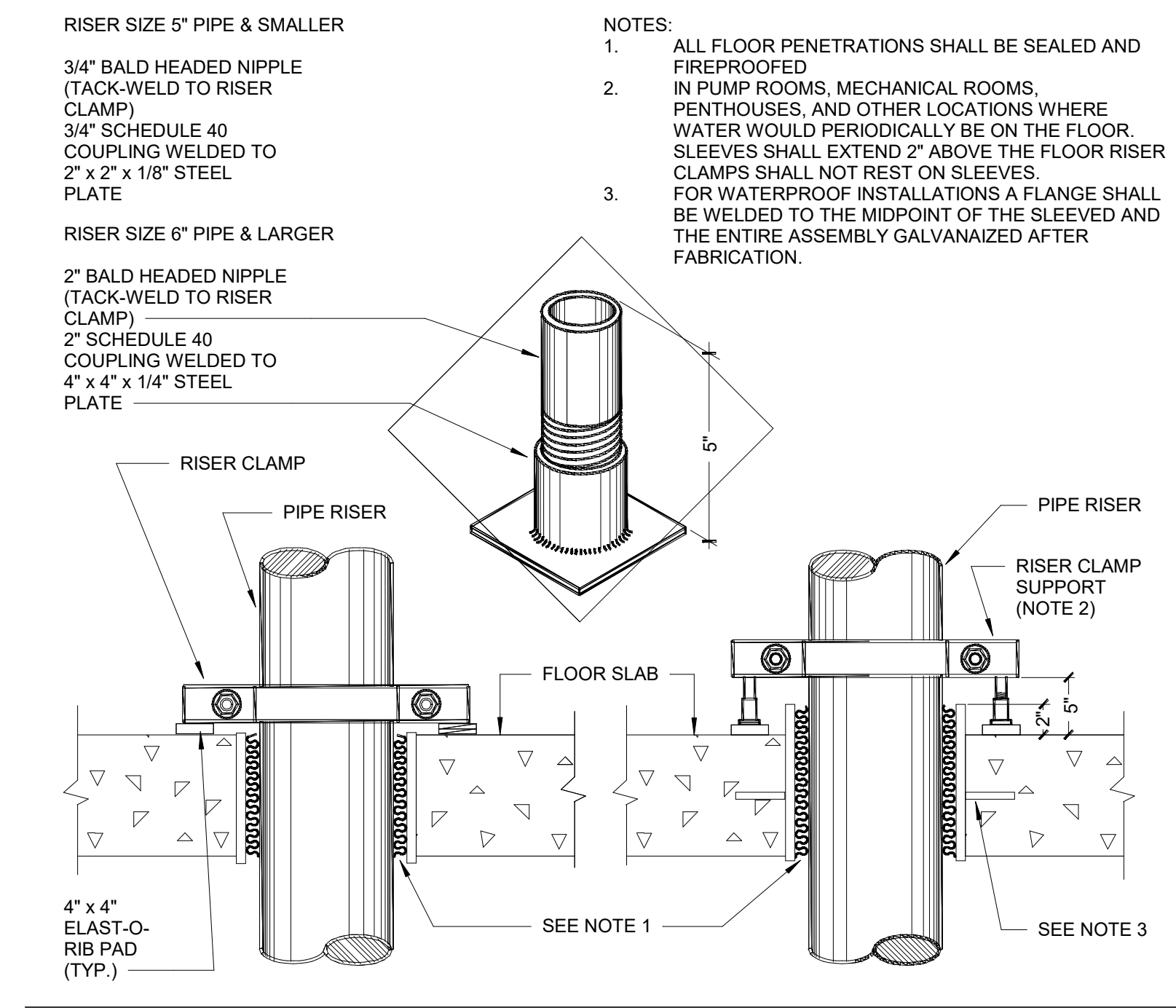


SHEET TITLE
 HYDRAULIC CALCS
 AND DETAILS

DATE
 17.10.24

SHEET NUMBER

F201



UNDERGROUND GENERAL NOTES:
 INSTALLATION & TESTING PER NFPA-24.
 PIPE: UL LISTED PVC - DR-14 FITTINGS: CI MECH. JOINT, CL 250 RODDING PER NFPA-24 PIPE BURY: 3'-6"
 CHLORINATE ALL NEW UNDERGROUND PIPING PER CODE.
WORK TO BE INCLUDED:
 1. EXCAVATION OF UNFORSEEN OBSTRUCTIONS, OR REPAIRS THERE TO
 2. REMOVAL OR PATCHING OF CONCRETE OR PAVING
 3. WATER TAP & CONNECTION FEES
 4. VALVE PIT & EQUIPMENT
 5. FLOOR BLOCKOUT TO ALLOW SPIGOT INSTALLATION
 6. UNDERGROUND PIPE FROM TAP TO PROP. LINE
 7. TAMPING AND COMPACTION
 8. FILL OTHER THAN EXCAVATED SPOIL

