

Two Story, Type II - 1 Hour, 54,806 S.F.
Allowable Area (3 Sides Open) = 40,400 S.F.
Total OCC Load = 5,123
Total Capacity of Exits = 5,450

Single Story, Type II-N, 24,520 S.F.
Allowable Area = 13,500 S.F.
W/Sprinklers = 3
Total OCC Load = 40,500 S.F.
Total Capacity of Exits = 400, 1,200

Single Story, Type II-N, 37,000 S.F.
Allowable Area = 13,500 S.F.
W/Sprinklers = 3
Total OCC Load = 40,500 S.F.
Total Capacity of Exits = 2,415

Two Story, Type II - 1 Hour, 26,346 S.F.
Allowable Area (2 Sides Open) = 20,200 S.F.
Hour Protection
Total OCC Load = 403
Total Capacity of Exits = 1,200

Two Story, Type II - 1 Hour, 26,346 S.F.
Allowable Area (2 Sides Open) = 20,200 S.F.
Hour Protection
Total OCC Load = 403
Total Capacity of Exits = 1,650

Two Story, Type II - 1 Hour, 54,806 S.F.
Allowable Area (2 Sides Open) = 40,400 S.F.
W/Sprinklers = 2
Total OCC Load = 1,411
Total Capacity of Exits = 5,400

Two Story, Type II - 1 Hour, 13,661 S.F.
Allowable Area (3 Sides Open) = 10,500 S.F.
Hour Protection
Total OCC Load = 1,100
Total Capacity of Exits = 1,120

Single Story, Type II-N, 2,671 S.F.
Allowable Area = 1,500 S.F.
W/Sprinklers = 3
Total OCC Load = 1,400
Total Capacity of Exits = 200

Two Story, Type II - 1 Hour, 11,000 S.F.
Allowable Area = 1,500 S.F.
W/Sprinklers = 2
Total OCC Load = 40,000 S.F.
Total Capacity of Exits = 2,400

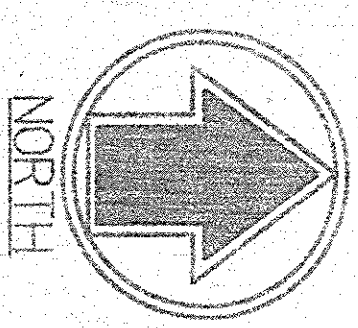
Two Story, Type II - 1 Hour, 36,330 S.F.
Allowable Area = 1,500 S.F.
W/Sprinklers = 2
Total OCC Load = 40,000 S.F.
Total Capacity of Exits = 2,400

SAFE AREAS
17,000 SF THIS FLOOR

2 HR. FIRE RATED PARTITIONS

PHASES 12-83-NEW CONSTRUCTION
ALL OTHER PHASES-EXISTING

NOTES



Sec # 111158
THIS DRAWING PREPARED FOR
PENNSYLVANIA HIGH SCHOOL

OSCEOLA, INDIANA
FIRE PROTECTION
FIRST FLOOR PHASES

DESIGN AND ENGINEERING
DAVID G. WIDMANN, P.E.
1000 W. 10TH AVENUE
DENVER, CO 80202

DATE: 10/1/83
BY: DW

CHECKED BY: DW

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

PROJECT NO. 111158

DATE: 10/1/83

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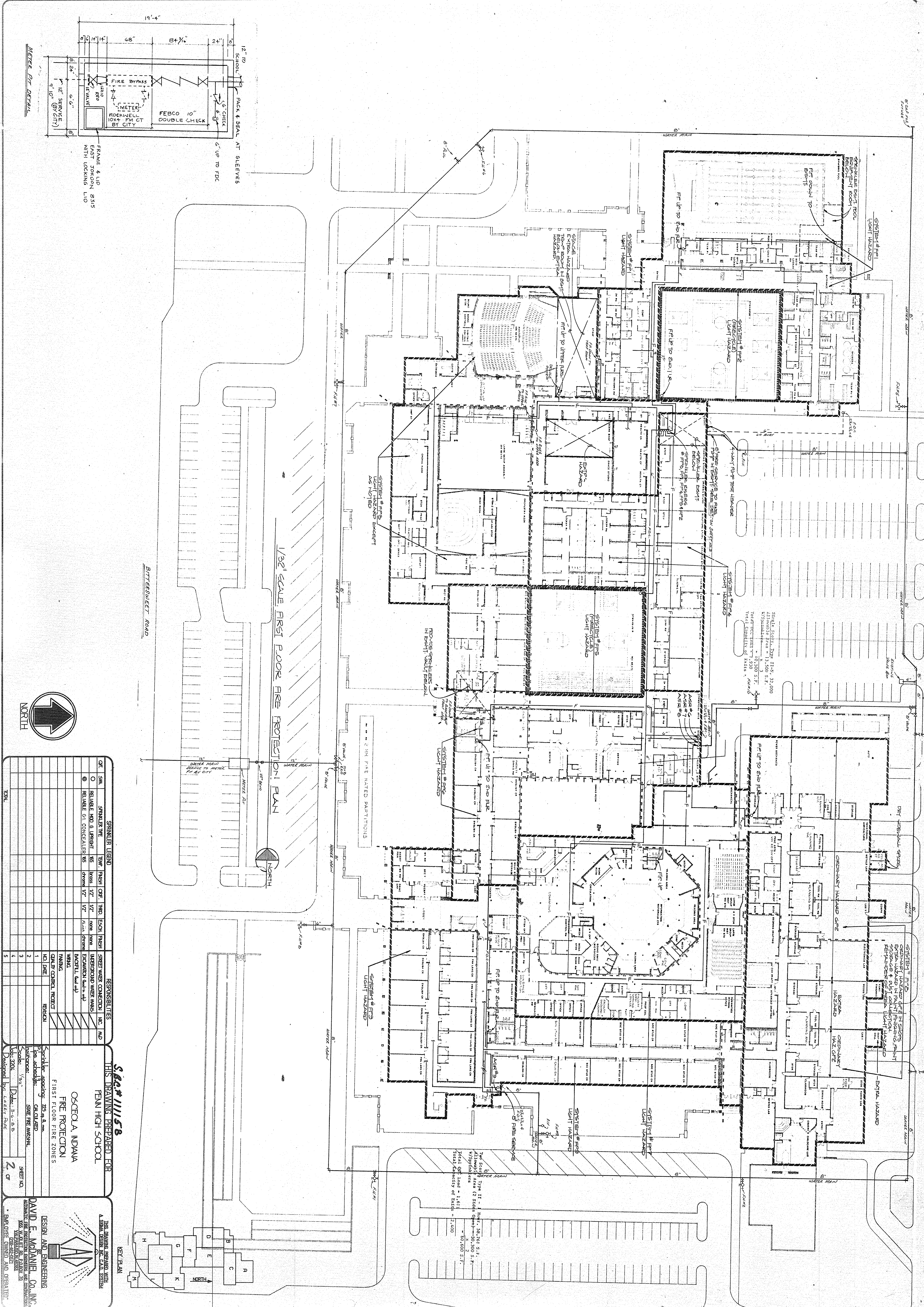
CHECKED BY: DW

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

PROJECT NO. 111158

DATE: 10/1/83

BY: DW



SPRINKLER LEGEND									
QTY	SYM	SPRINKLER TYPE	TEMP	RUSH QTY	TRD	EQN	FINSH	RESPONSIBILITIES	
0	○	RELIABLE AND G. UPRIGHT	85	1/2"	1/2"	1/2"	1/2"	STREET WATER CONNECTION INC. AND	
0	○	RELIABLE G. CONCEALER	85	1/2"	1/2"	1/2"	1/2"	UNDERGROUND WATER MAINS	
								EXCAVATION (sub. only)	
								WORKING	
								PAINTING	
								QUALITY CONTROL PROJECT	
								NO. 1000	REMOVAL
								1	
								2	
								3	
								4	
								5	
								TOTAL	

THIS DRAWING PREPARED FOR
PENN HIGH SCHOOL

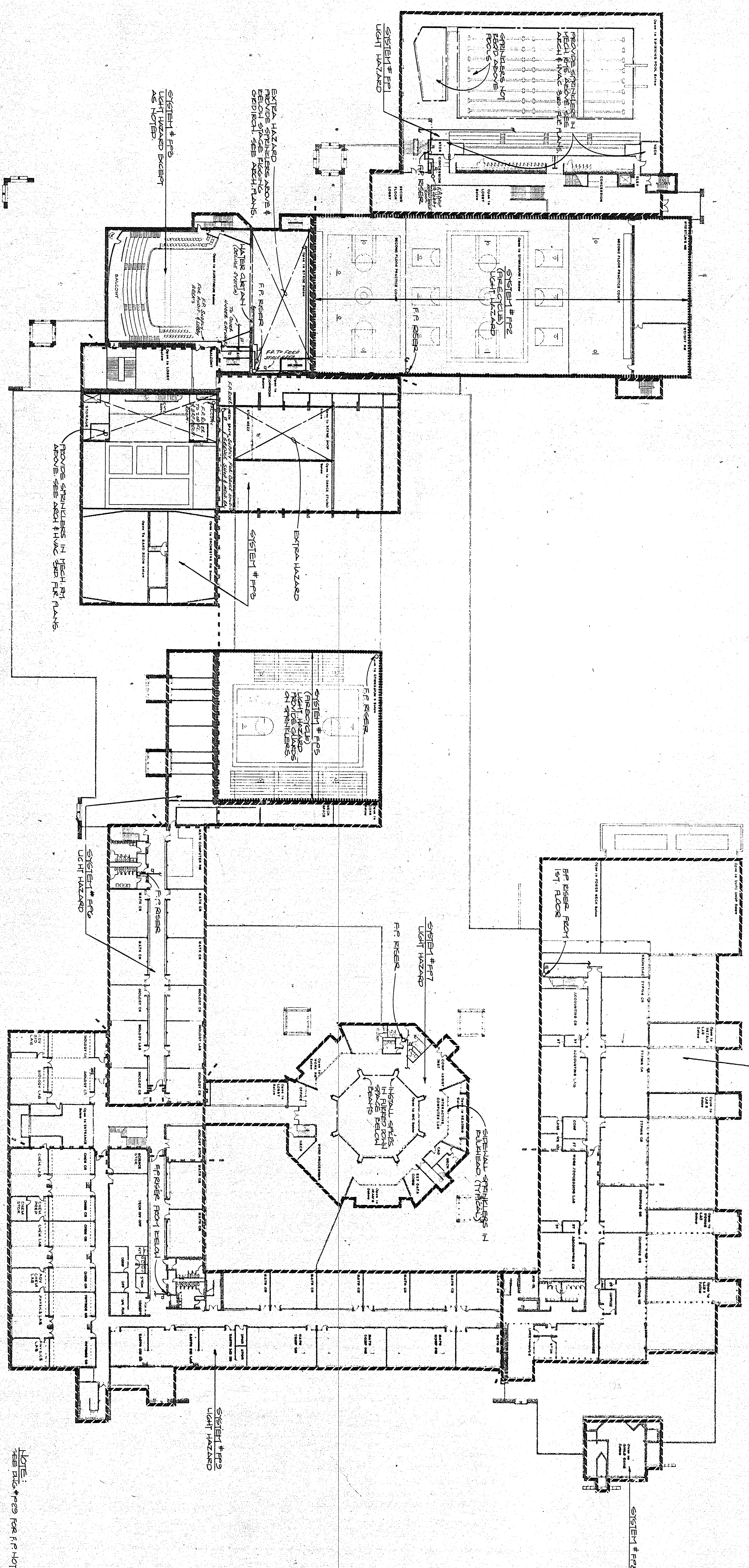
OSCEOLA INDIANA
FIRE PROTECTION
FIRST FLOOR FIRE ZONES

Spinkler: 225 g. A. 1000
P. 1000
Scale: 1/32"
Designed by: LARRY RAY

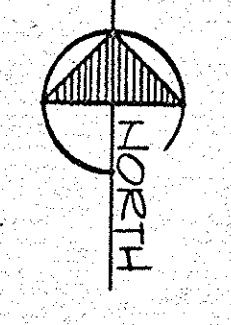
2 OF

DESIGN AND ENGINEERING
DAVID E. MC DANIEL, CO., INC.
100 W. 10TH ST. SUITE 100
OSCEOLA, IN 46570
(219) 482-2571

THIS DRAWING PREPARED WITH
A. SHAW, DESIGNER OF LOCAL SYSTEMS

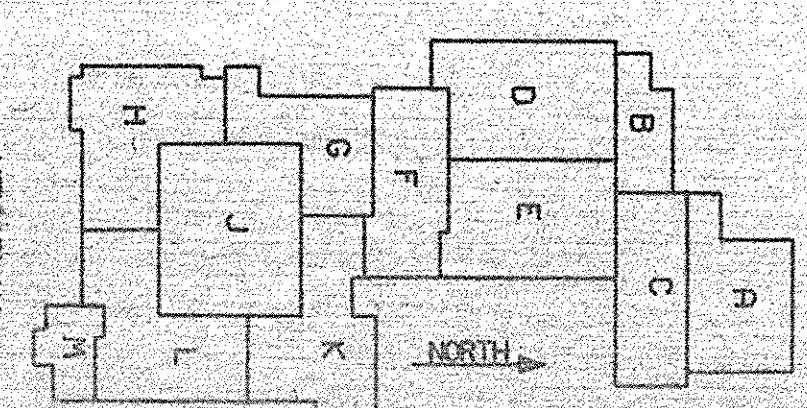


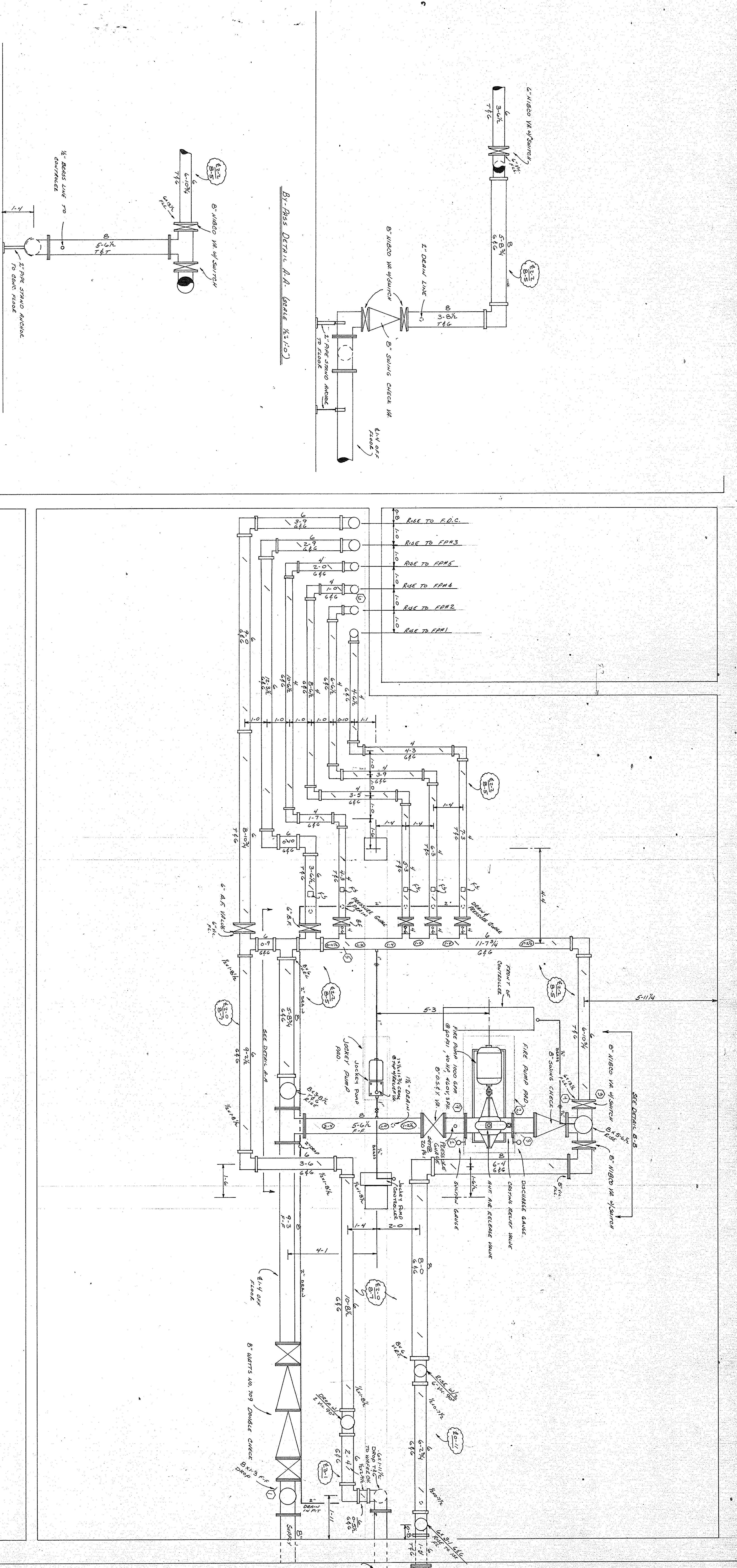
1/32" SCALE SECOND FLOOR FIRE PROTECTION PLAN



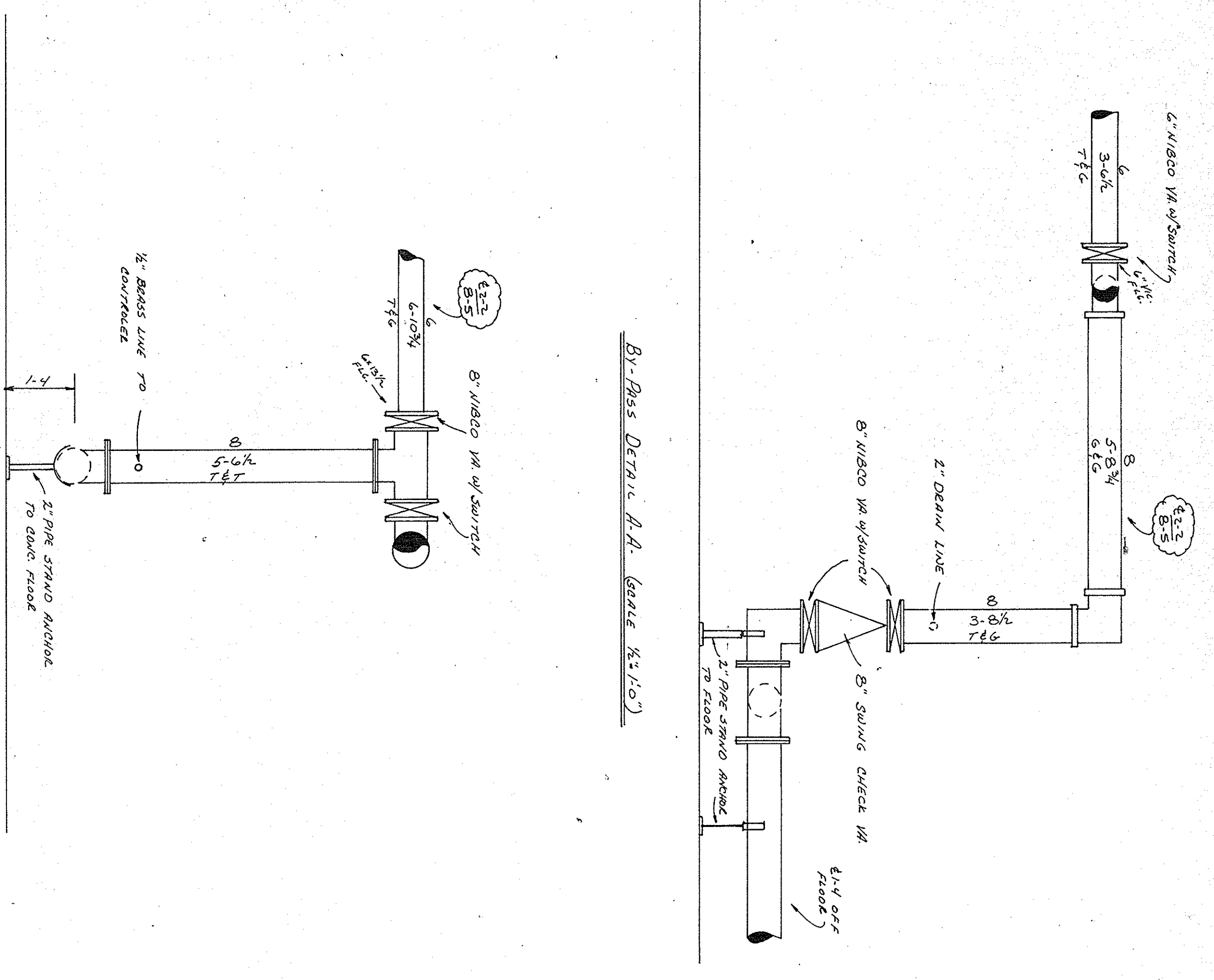
SPRINKLER LEGEND										RESPONSIBILITIES									
QTY	SYM.	SPRINKLER TYPE	TEMP.	RATING	CFR.	THRO.	ESCAL.	FRESH	REMARKS	DESIGNER	CHECKER	INCH.	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
1	Q	RELIEF AND G. UPRIGHT	165	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED
2	Q	RELIEF G. CONCEALER	165	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED	DESIGNED
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THIS DRAWING PREPARED FOR
PENN HIGH SCHOOL
OSCEOLA, INDIANA
FIRE PROTECTION
DESIGNED BY: DAVID E. MCJANNET, C.E.
CHECKED BY: J. L. HARRIS, C.E.
DATE: 10/1/72
SHEET NO. 24 OF 24

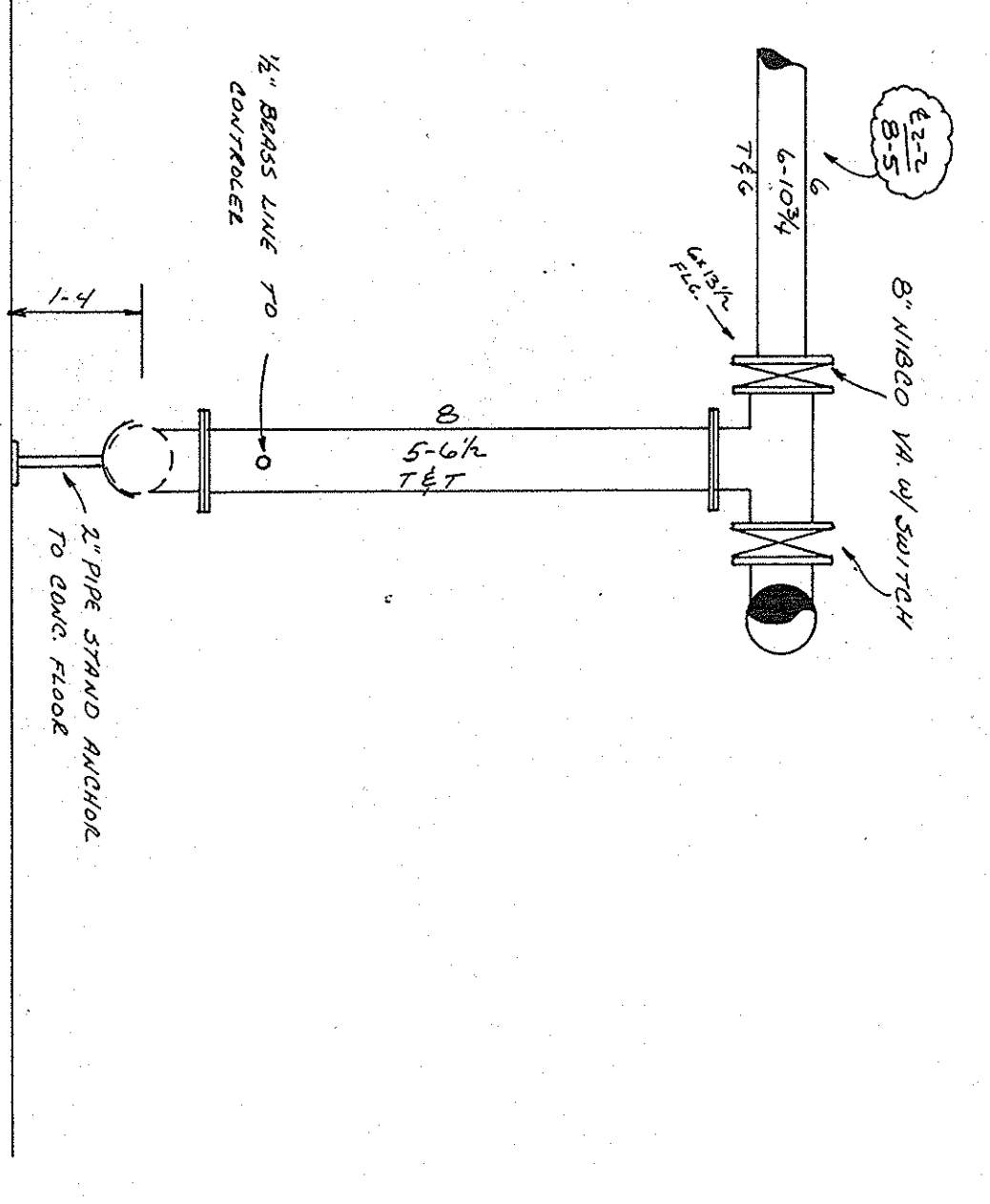




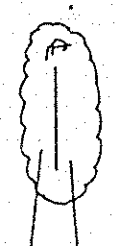
Rise Detail B-B (Scale 1/2\"/>



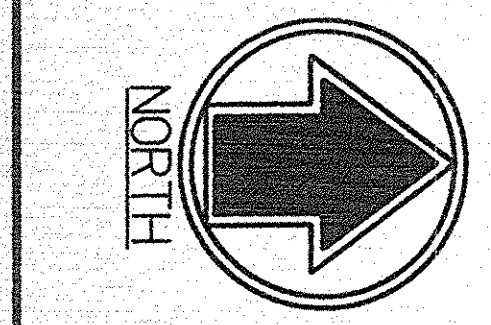
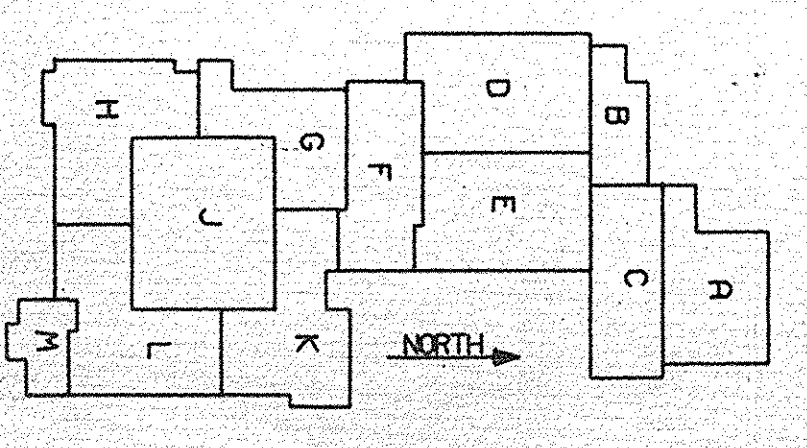
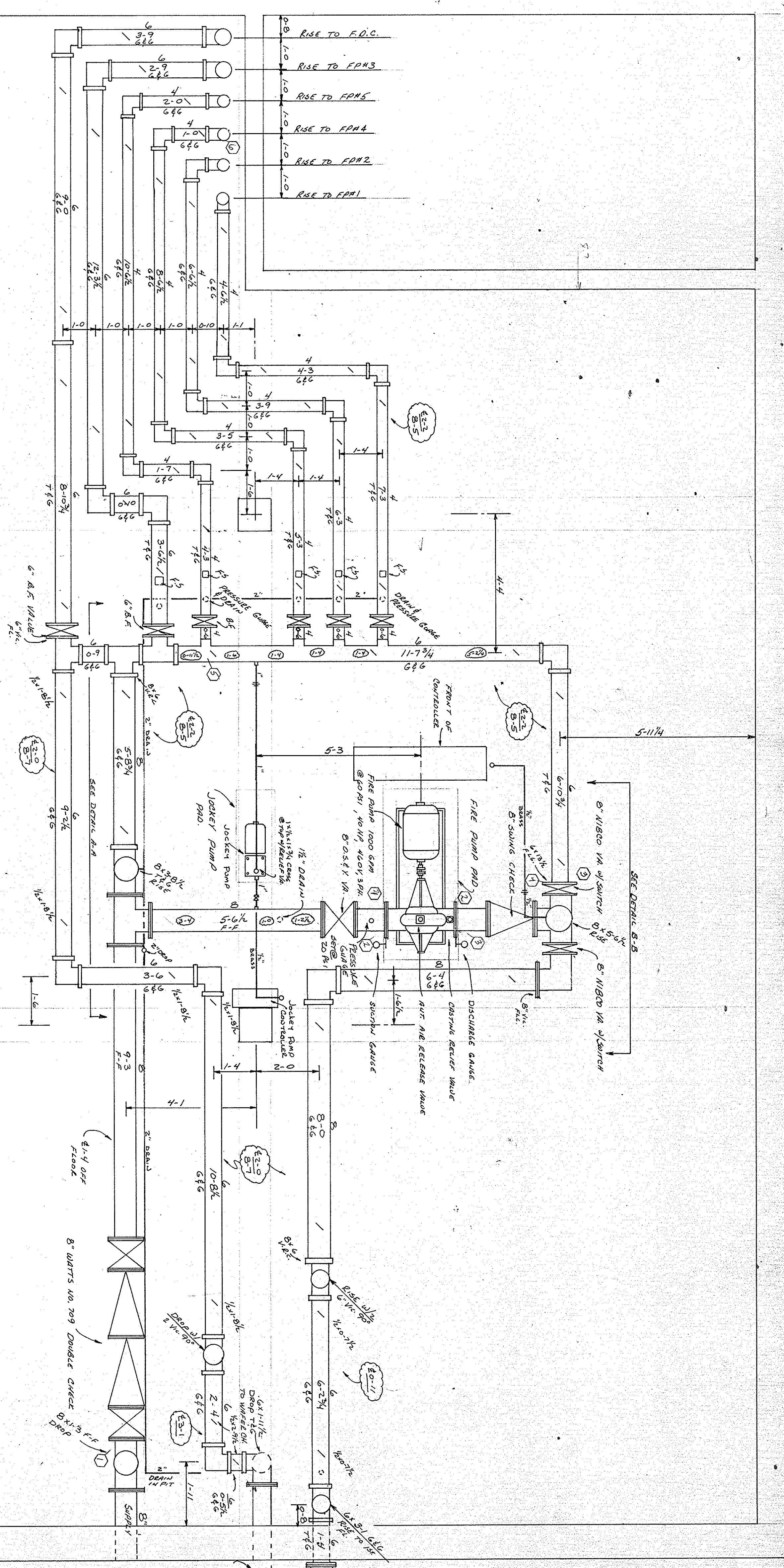
Rise Detail A-A (Scale 1/2\"/>



General Notes

1. Hang mains and lines in concrete with Hilti Drop-ins, Studs, AIR and Rings.
2. Hang Mains and Lines to Steel with Top Beam Clamp, Steel Strut, Traps, AIR and Rings.
3. All Piping 2" and smaller shall be schedule 40 Black Steel Piping 2 1/2" to 8" to be schedule 10 Unthreaded. Piping conforms to N.E.P.A. #13, 1985 Ed.
4. Line fittings to be cast iron screwed.
5. Main fittings to be grooved fittings and couplings. Flanged fittings, and cast iron screwed.
6. Sprinkler deflector distance per N.E.P.A. #13, 1985 Ed.
7. Hang location, spacing and size conforms to N.E.P.A. #13, 1985 Ed.
8. All work and materials shall conform to the standards set forth in the latest edition of N.E.P.A., and Devices shall be UL Listed.
9.  Connection of pipe below deck.
10.  Hydraulic calculation points.

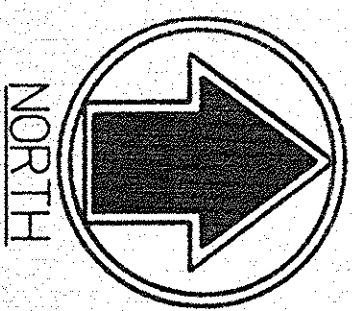
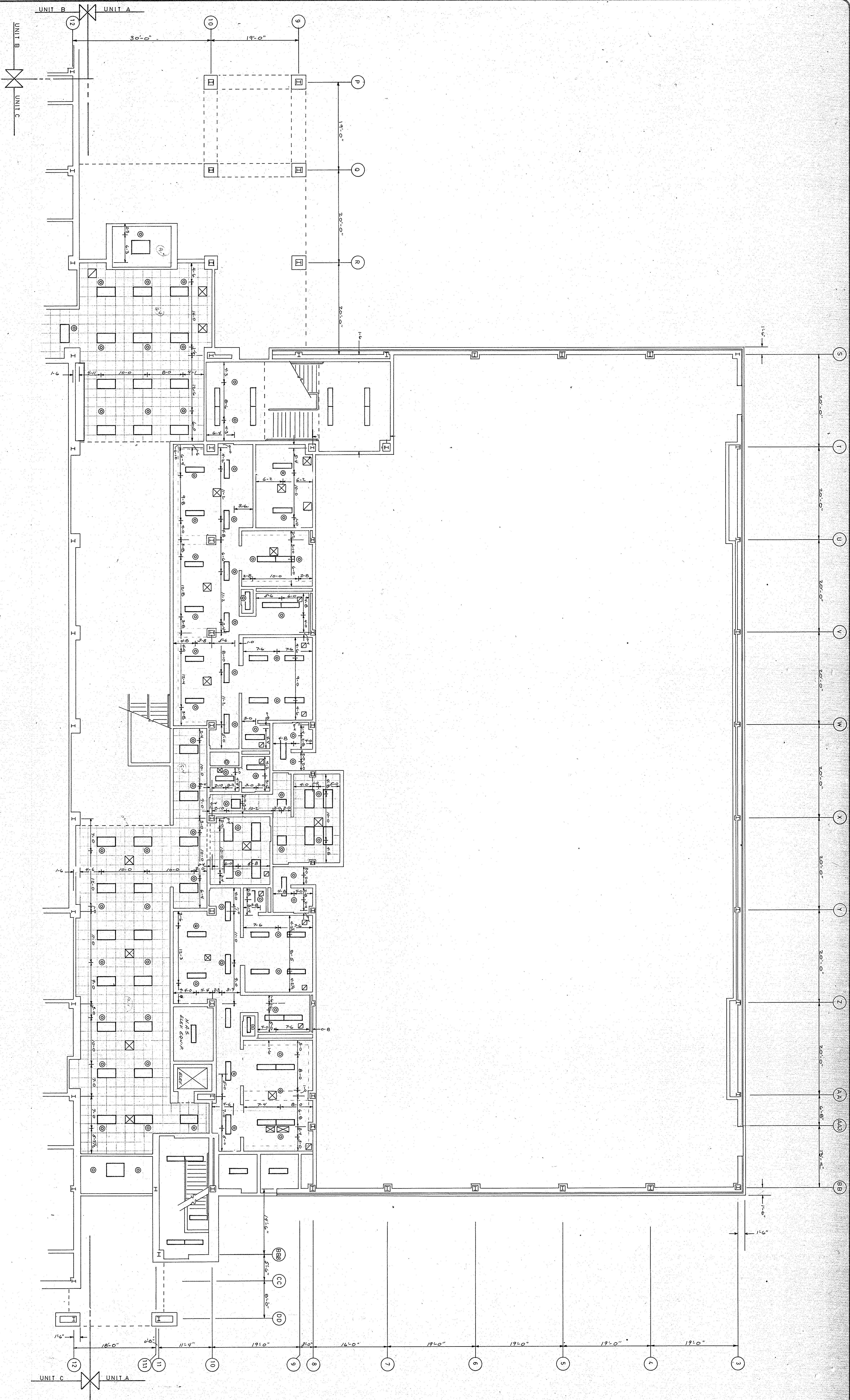
Unit E Basement Floor Fire Pump Detail (Scale 1/2\"/>



SPRINKLER LEGEND										RESPONSIBILITIES										
QTY	SYM	SPRINKLER TYPE	TRNG	FINISH	COE	TRNG	FINISH	STEEL W/ATER CONNECT	WC	IND										
1	Q	RELIEF MD & UPRIGHT BS	brass	1/2"	1/2"	1/2"	1/2"	brass	1/2"	1/2"										
2	Q	RELIEF ON CONCEALER BS	brass	1/2"	1/2"	1/2"	1/2"	brass	1/2"	1/2"										
3	Q	RELIEF ON CONCEALER BS	brass	1/2"	1/2"	1/2"	1/2"	brass	1/2"	1/2"										
4	Q	RELIEF ON CONCEALER BS	brass	1/2"	1/2"	1/2"	1/2"	brass	1/2"	1/2"										
5	Q	RELIEF ON CONCEALER BS	brass	1/2"	1/2"	1/2"	1/2"	brass	1/2"	1/2"										

THIS DRAWING PREPARED FOR									
OSCEOLA INDIANA									
FIRE PROTECTION									
FIRE PUMP DETAIL & GENERAL NOTES									
DESIGNED BY: LARRY HAGE									
CHECKED BY: LARRY HAGE									
DATE: 2-15-85									
SHEET NO. 3 OF 3									

DESIGN AND ENGINEERING									
DAVID E. MC DANIEL, CO., INC.									
AUTOMATIC FIRE PROTECTION ENGINEERS AND CONSULTANTS									
1000 W. PARKWAY, SUITE 100									
INDIANAPOLIS, INDIANA 46202									
"EMPLOYEE OWNED AND OPERATED"									



SPRINKLER LEGEND

SYMBOL	SPRINKLER TYPE	TEMP.	FINISH	COF.	THED.	ESCH.	FINISH
○	RELIABLE	MOD. 6	UPRIGHT	85	BRASS	1/2"	NONE
●	RELIABLE	MOD. 6-1	DOWNWARD	85	BRASS	1/2"	FLUSH WHITE

RESPONSIBILITIES

NO.	DATE	PERSON	PROJECT
1			DESIGN
2			CHECK
3			REVISION
4			
5			

THIS DRAWING PREPARED FOR
PENN HIGH SCHOOL

OSCEOLA, INDIANA
FIRE PROTECTION

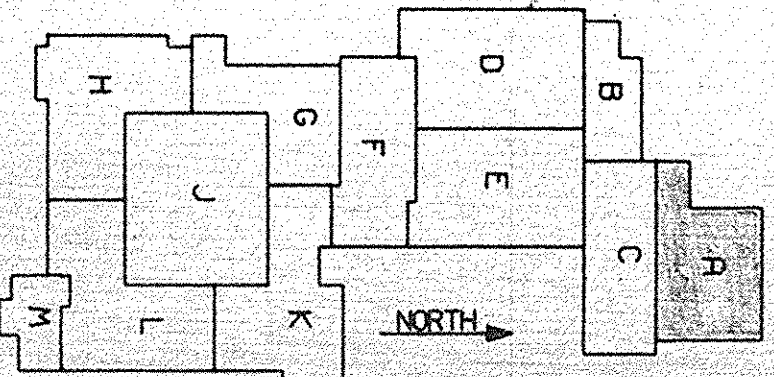
Unit A First Floor Reflected C.I.G.

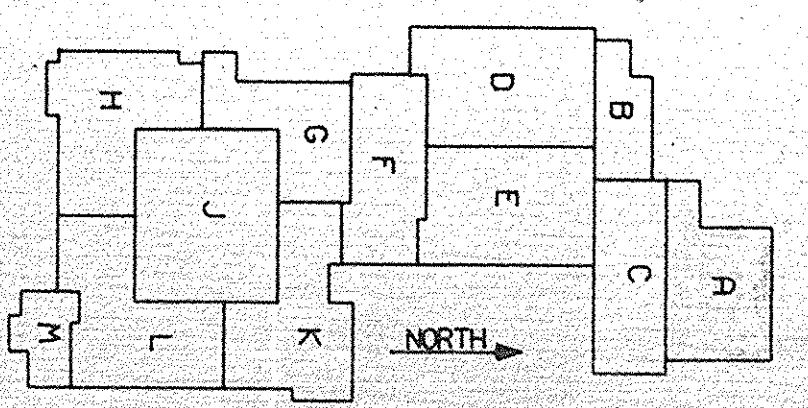
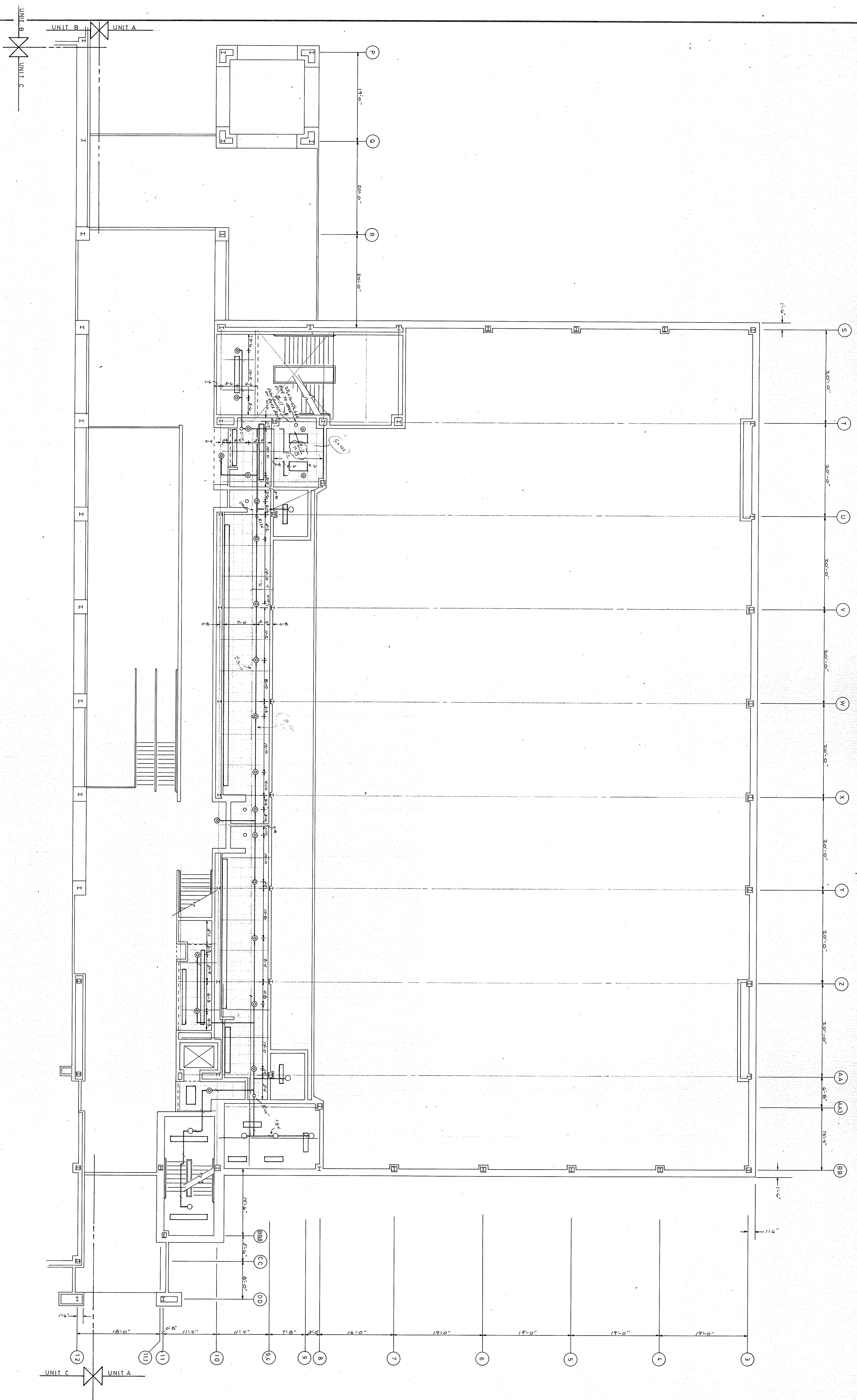
Scale: 1/8" = 1'-0"

Drawn by: LARRY J. RAE

Sheet No. 6 of 6

DESIGN AND ENGINEERING
DAVID E. MCJANNET, CO. INC.
1000 W. MARKET ST., JEFFERSON, IN 47130-1000
OWNER, OWNER AND OPERATOR





KEY PLAN

SPRINKLER LEGEND

SYMBOL	SPRINKLER TYPE	TEMP.	RATING	ORF.	THRO.	ESCH.	FINISH
7	RELIABLE MOD. S. UPRIGHT	165	175	175	175	none	none
23	RELIABLE MOD. S. UPRIGHT	165	175	175	175	Flashed	White

RESPONSIBILITIES

NO.	DATE	REVISION
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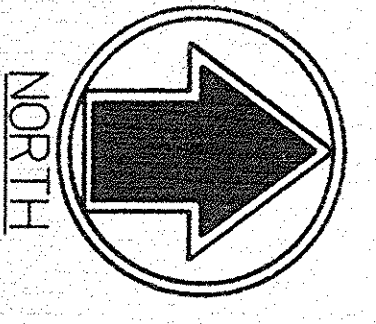
UNIT A SECOND FLOOR PIPING & C.L.G. PLAN

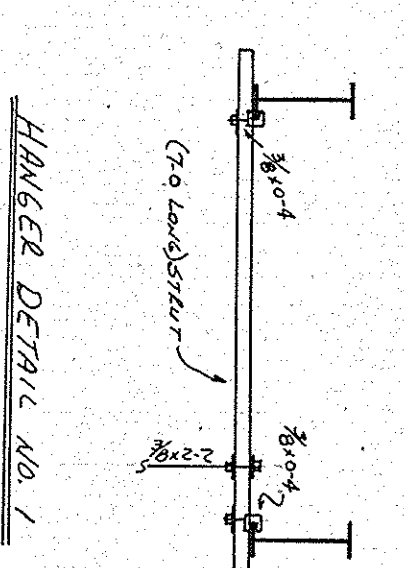
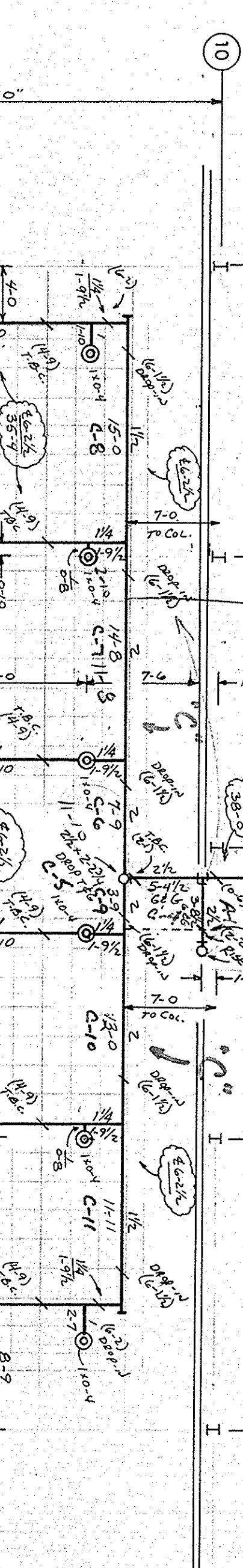
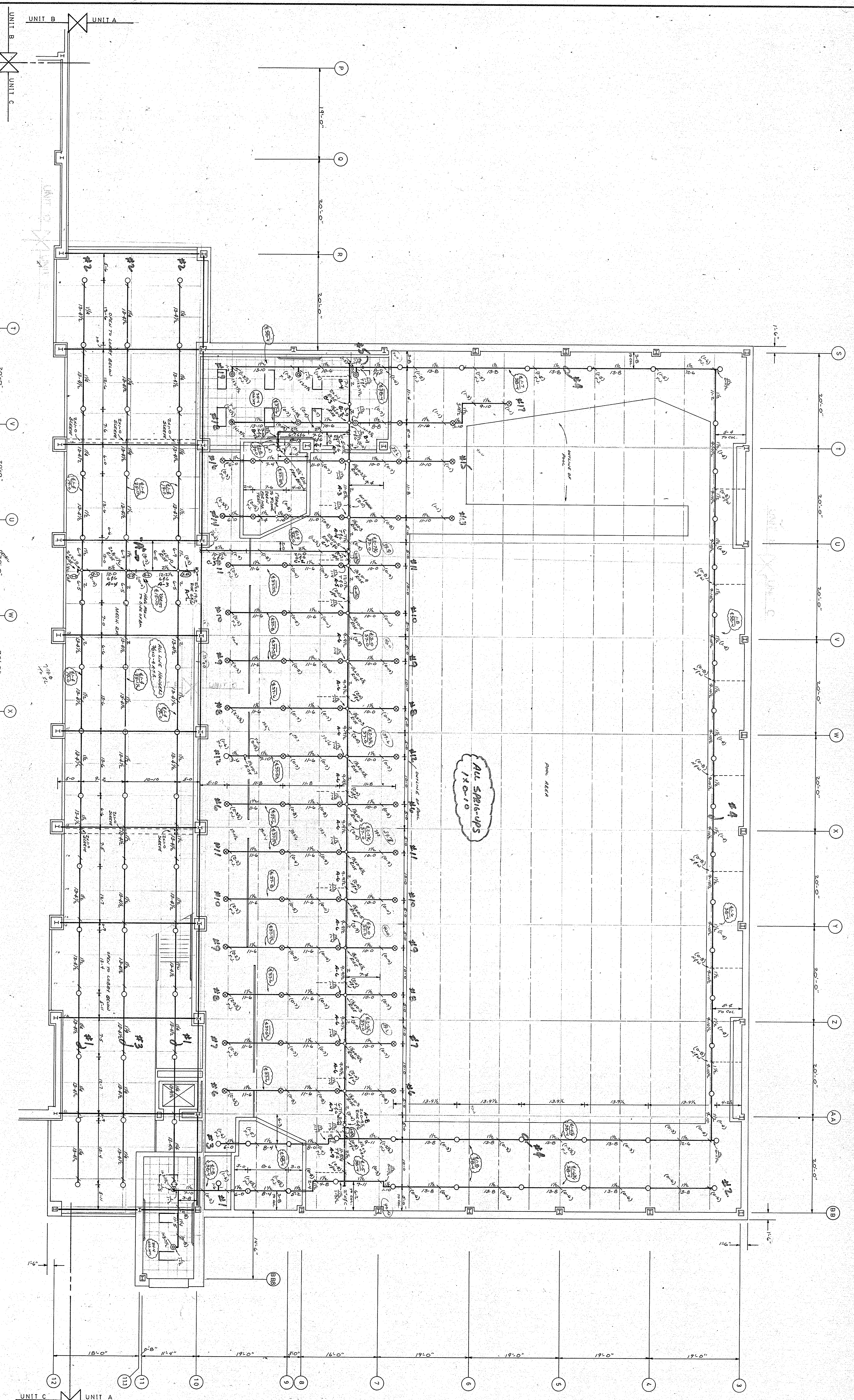
OSCEOLA, INDIANA
FIRE PROTECTION
CALCULATED
SHEET NO. 7 OF 7

DESIGN AND ENGINEERING
DAVID E. MODANE, CO., INC.
100 N. W. 10th St., Suite 100
Yakima, WA 98901
PH: 509-225-1111
FAX: 509-225-1112
WWW.DEMCOINC.COM

THIS DRAWING PREPARED FOR
PENNS HIGHS SCHOOL
OSCEOLA, INDIANA
FIRE PROTECTION
CALCULATED
SHEET NO. 7 OF 7

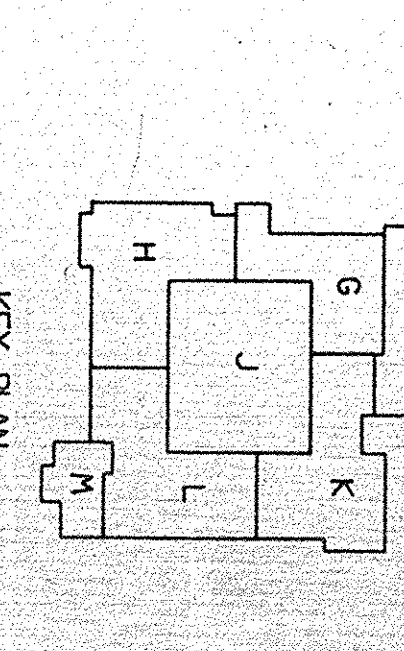
THIS DRAWING PREPARED WITH
A SIGNATURE AND SEAL SYSTEM
FOR THE STATE OF INDIANA
REGISTERED PROFESSIONAL ENGINEER
NO. 10000
DAVID E. MODANE, CO., INC.





SPRINKLER LEGEND			
SM	STANDARD	TYPE	TYPE
1/2	1/2	1/2	1/2
3/4	3/4	3/4	3/4
1	1	1	1
1 1/2	1 1/2	1 1/2	1 1/2
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5

RESPONSIBILITIES			
DESIGN	CHECK	APPROVE	DATE
DAVID E. Mc DANIEL, P.E.	DAVID E. Mc DANIEL, P.E.	DAVID E. Mc DANIEL, P.E.	10-1-07
DAVID E. Mc DANIEL, P.E.	DAVID E. Mc DANIEL, P.E.	DAVID E. Mc DANIEL, P.E.	10-1-07
DAVID E. Mc DANIEL, P.E.	DAVID E. Mc DANIEL, P.E.	DAVID E. Mc DANIEL, P.E.	10-1-07
DAVID E. Mc DANIEL, P.E.	DAVID E. Mc DANIEL, P.E.	DAVID E. Mc DANIEL, P.E.	10-1-07



THIS DRAWING PREPARED FOR
FENN HIGH SCHOOL

OSCEOLA, INDIANA
FIRE PROTECTION

UNIT A THIRD FLOOR PIPING & CLG.

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

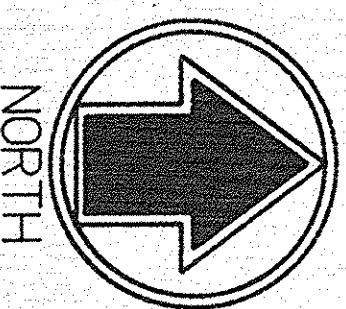
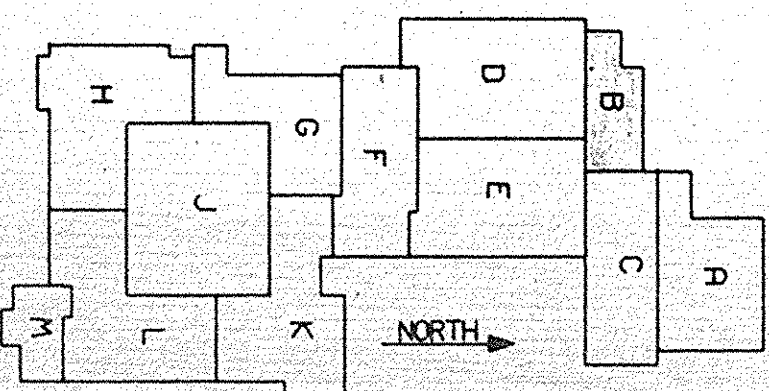
DATE: 2-2-07

DESIGNED BY: LARRY RICE

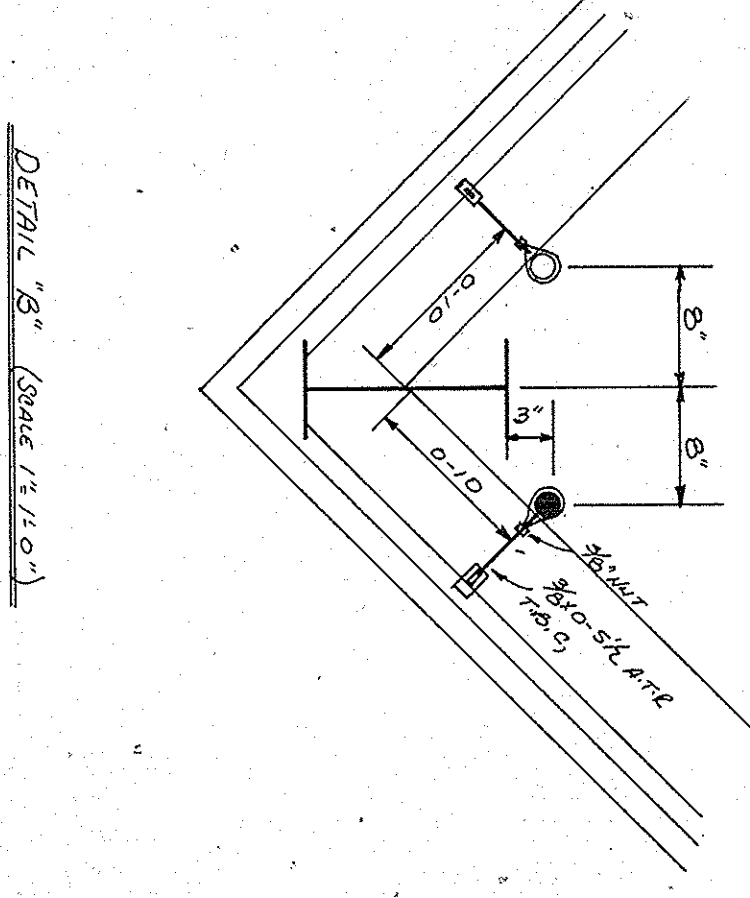
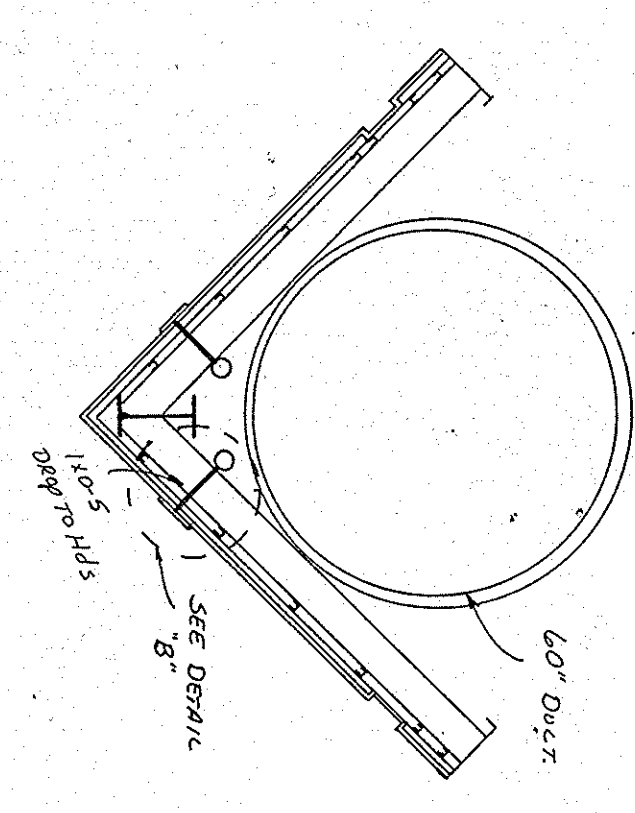
SHEET NO. **8** OF **8**

DAVID E. Mc DANIEL, P.E.
DESIGN AND ENGINEERING
1000 N. WALKER BL. SUITE 200
OSCEOLA, IN 47450

THIS DRAWING PREPARED WITH
A SPSA DESIGN INC. CAD SYSTEM

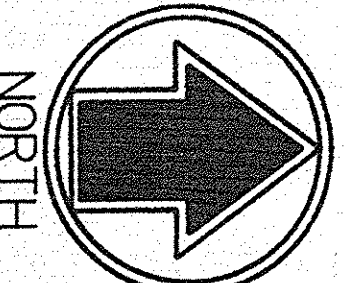
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UNIT D UNIT B



NOTE TO SPRINKLER DETAIL 'B'

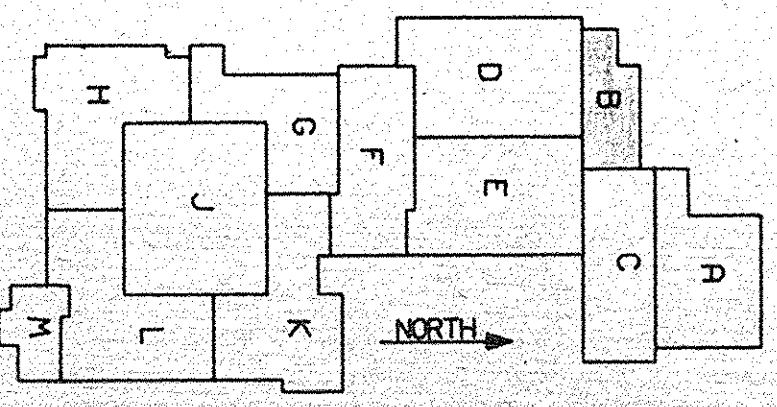
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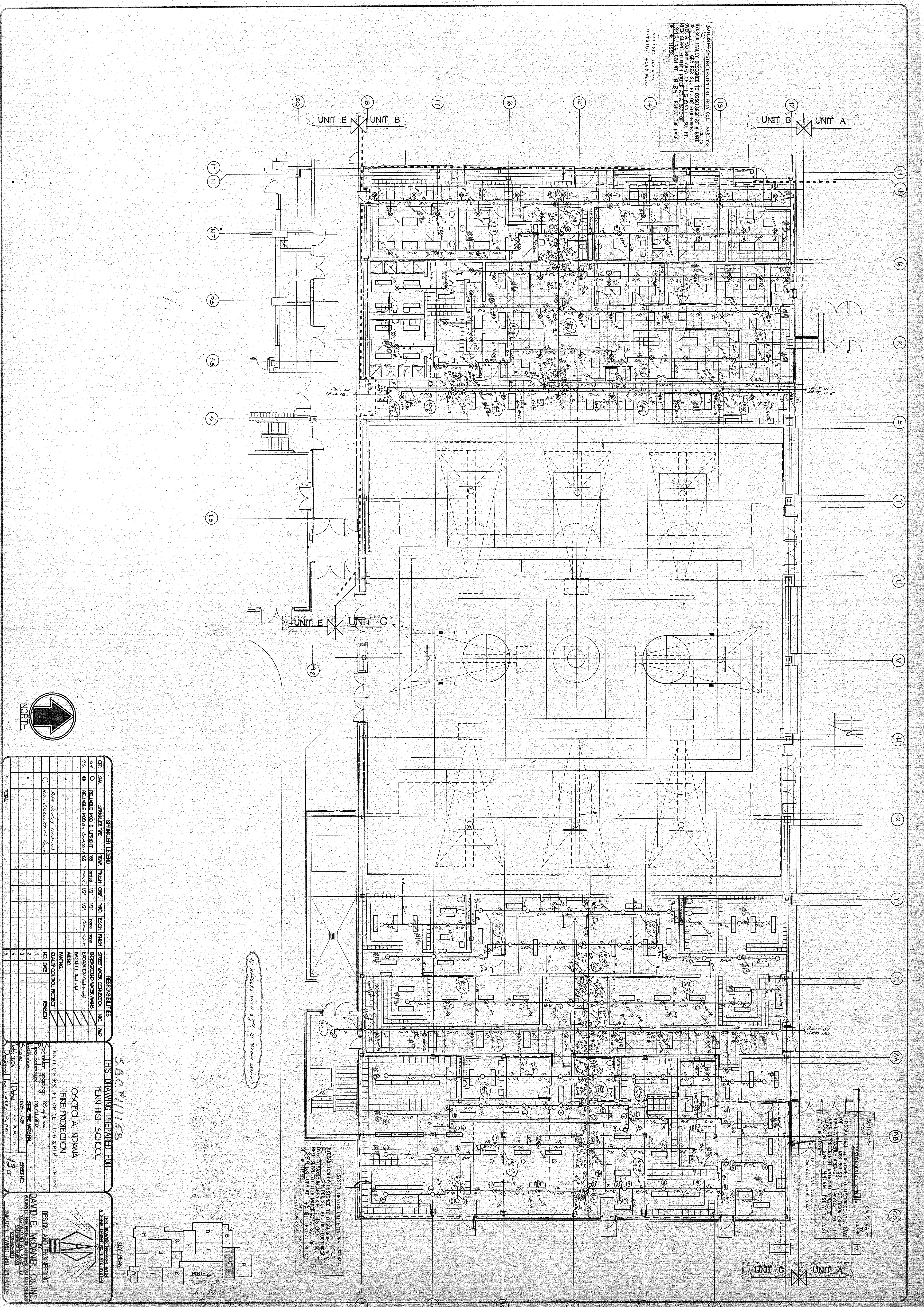
SPRINKLER LEGEND									
QTY	SYM.	SPRINKLER TYPE	TEMP.	FUSION	CNF.	THRD.	EACH	FUSION	RESPONSIBILITIES
35	1	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	STREET WATER CONNECTION INC. AND
	2	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	UNDERGROUND WATER MAINS
	3	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	EXCAVATION (unit only)
	4	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	BOREHOLE (unit only)
	5	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	WIRING
	6	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	PAINTING
	7	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	QUALITY CONTROL PROJECT
	8	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	NO. DATE
	9	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	REVISION
	10	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	11	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	12	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	13	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	14	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	15	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	16	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	17	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	18	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	19	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	20	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	21	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	22	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	23	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	24	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	25	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
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	53	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
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	94	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	95	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
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	98	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	99	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	
	100	RELIEF AND 6 BRIGHT	KS	1/2"	1/2"	1/2"	1/2"	1/2"	

THIS DRAWING PREPARED FOR
PENNA HIGH SCHOOL
OSCEOLA INDIANA
FIRE PROTECTION
UNIT B CATWALK PRINTING PLAN
Scale: 1/2"=1'-0"
Date: 5-2-83
SHEET NO. 120

DESIGN AND ENGINEERING
DAVID E. MOJANE, CO., INC.
AUTOMATIC FIRE PROTECTION ENGINEERS AND ARCHITECTS
100 N. WASHINGTON ST.
OSCEOLA, IN 46551
OWNER OWNED AND OPERATED



KEY PLAN



SPRINKLER SYSTEM DESIGN CRITERIA CO. 1.1.15
SPRINKLER SYSTEMS ARE DESIGNED TO DISCHARGE AT A RATE
OF 1.5 GPM PER SQ. FT. OF FLOOR AREA.
WHEN SUPPLIED WITH WATER AT A RATE OF
1.5 GPM AT 4.5 PSI AT THE BASE
OF THE RISER.

SPRINKLER SYSTEM DESIGN CRITERIA CO. 1.1.15
SPRINKLER SYSTEMS ARE DESIGNED TO DISCHARGE AT A RATE
OF 1.5 GPM PER SQ. FT. OF FLOOR AREA.
WHEN SUPPLIED WITH WATER AT A RATE OF
1.5 GPM AT 4.5 PSI AT THE BASE
OF THE RISER.

SPRINKLER SYSTEM DESIGN CRITERIA CO. 1.1.15
SPRINKLER SYSTEMS ARE DESIGNED TO DISCHARGE AT A RATE
OF 1.5 GPM PER SQ. FT. OF FLOOR AREA.
WHEN SUPPLIED WITH WATER AT A RATE OF
1.5 GPM AT 4.5 PSI AT THE BASE
OF THE RISER.

SPRINKLER LEGEND

SYMBOL	SPRINKLER TYPE	TEMP.	RATING	ORF.	TRD.	ESCH.	FRSH.
○	BRAND E AND S UPRIGHT	85	100	1/2"	1/2"	1000	FRSH.
●	BRAND E AND S UPRIGHT	85	100	1/2"	1/2"	1000	ESCH.
○	BRAND E AND S UPRIGHT	85	100	1/2"	1/2"	1000	ESCH.

RESPONSIBILITIES

NO.	DATE	REVISION
1		
2		
3		
4		
5		

OSCEOLA INDIANA
FIRE PROTECTION

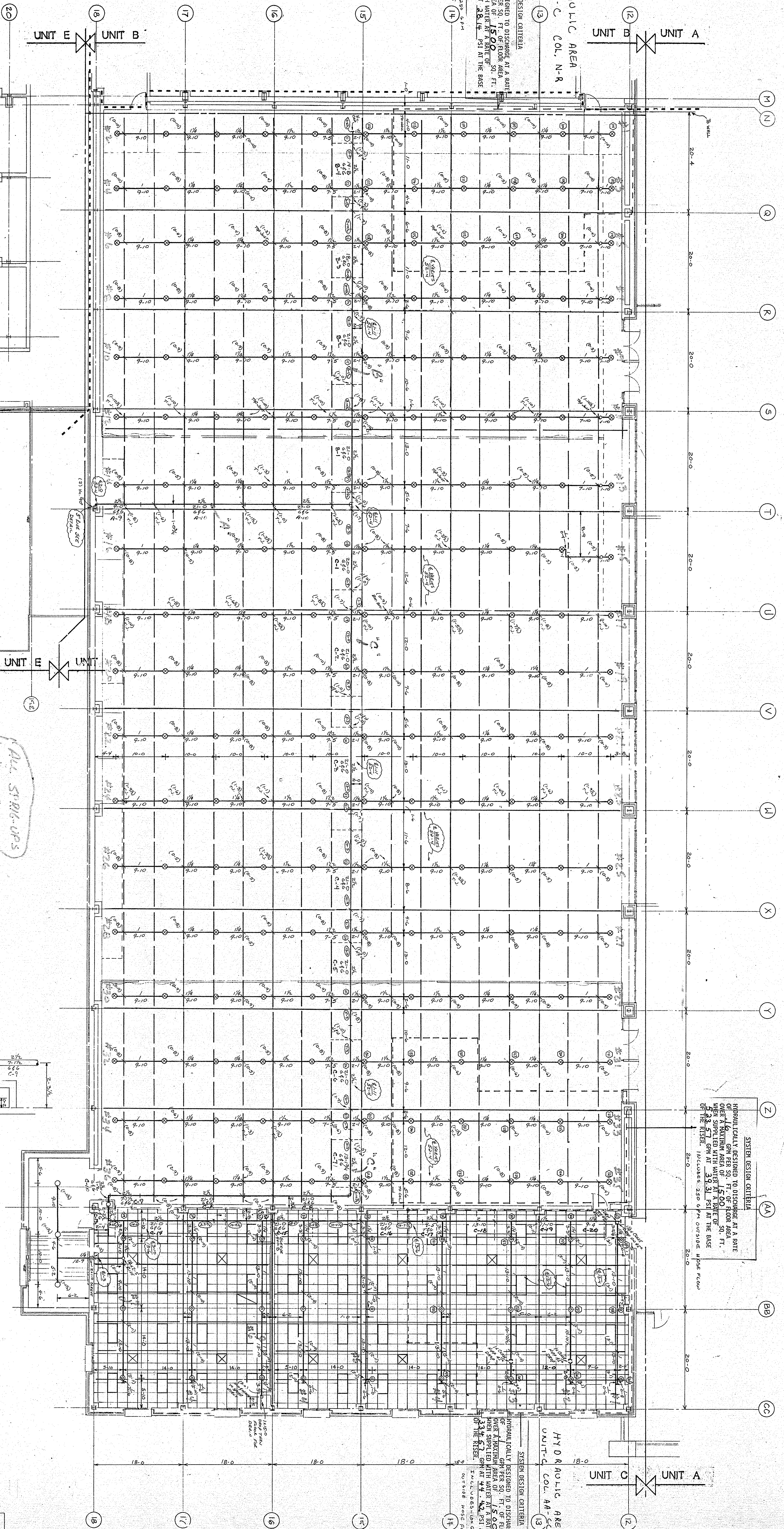
DAVID E. MOHAMMAD, CO. INC.
DESIGN AND ENGINEERING
1000 N. W. 10TH AVE.
MIAMI, FL 33136
305.555.1234
WWW.DAVIDENGINEERING.COM

HYDRAULIC AREA
UNIT-C COL-YAA

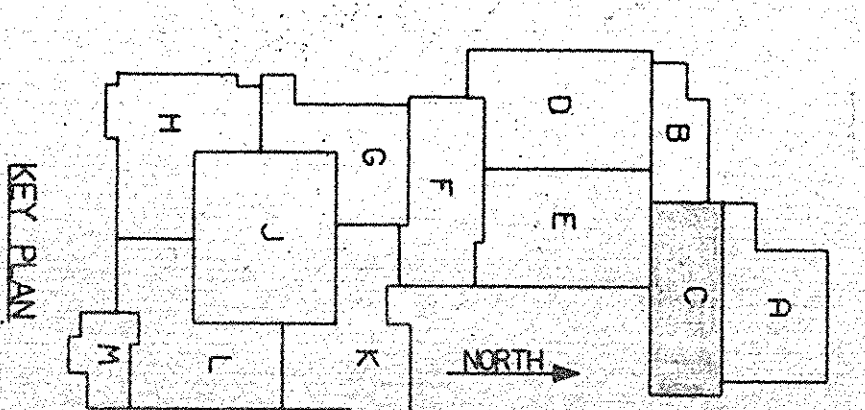
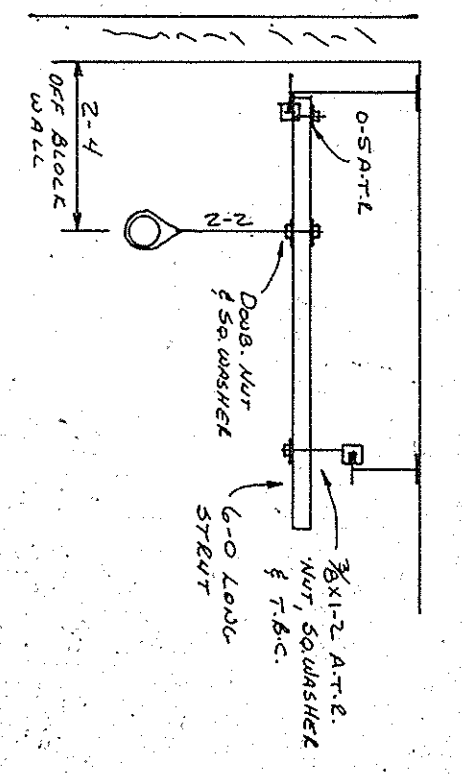
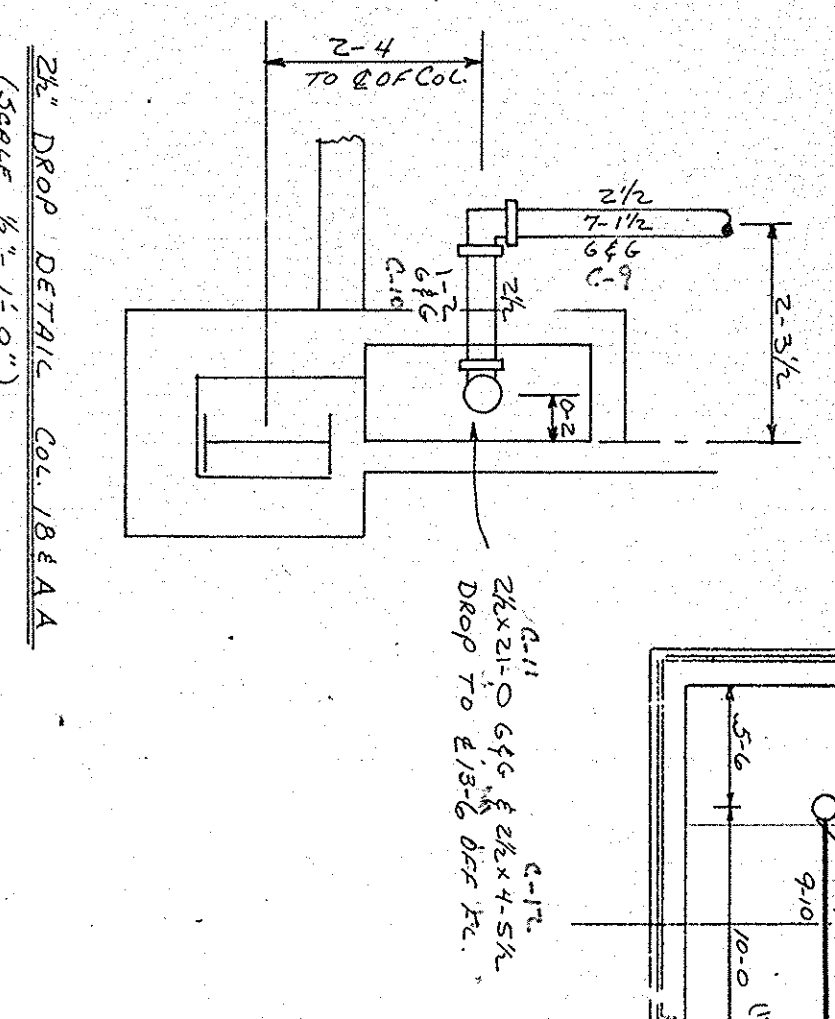
SYSTEM DESIGN CRITERIA
HYDRAULICALLY DESIGNED TO DISCHARGE AT A RATE OF 1.5 GPM PER SQ. FT. OF FLOOR AREA, 1500 SQ. FT. WHEN SUPPLIED WITH WATER AT A RATE OF 3.5 GPM AT THE BASE OF THE RISER. INCLUDES 250 CFM OUTSIDE WINDS FLOW

HYDRAULIC AREA
UNIT-C COL-N-R

SYSTEM DESIGN CRITERIA
HYDRAULICALLY DESIGNED TO DISCHARGE AT A RATE OF 1.5 GPM PER SQ. FT. OF FLOOR AREA, 1500 SQ. FT. WHEN SUPPLIED WITH WATER AT A RATE OF 3.5 GPM AT THE BASE OF THE RISER. INCLUDES 250 CFM OUTSIDE WINDS FLOW



ALL SPRINKLERS
1X0-5



SPRINKLER LEGEND

QTY	SYM.	DESCRIPTION	UNIT	QTY	THRO.	ESCH.	FRIGH.
176	⊗	RELIEF VALVE & LIGHT	WS	176	1/2"	1/2"	1000
27	⊗	RELIEF VALVE CONCEALER	WS	27	1/2"	1/2"	1000

RESOURCES

NO.	DATE	REVISION
1		
2		
3		
4		
5		

THIS DRAWING PREPARED FOR
FENN HIGH SCHOOL

OSCEOLA, INDIANA
FIRE PROTECTION
CALCULATED
BY: [Signature]
CHECKED: [Signature]
DATE: 6-12-88

DESIGN AND ENGINEERING
DAVID E. MC DANIEL, CO. INC.
1200 1/2 N. 10TH ST.
OSCEOLA, IN 46781

SPRINKLER LEGEND

QTY	SYM.	DESCRIPTION	UNIT	QTY	THRO.	ESCH.	FRIGH.
176	⊗	RELIEF VALVE & LIGHT	WS	176	1/2"	1/2"	1000
27	⊗	RELIEF VALVE CONCEALER	WS	27	1/2"	1/2"	1000

RESOURCES

NO.	DATE	REVISION
1		
2		
3		
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5		

THIS DRAWING PREPARED FOR
FENN HIGH SCHOOL

OSCEOLA, INDIANA
FIRE PROTECTION
CALCULATED
BY: [Signature]
CHECKED: [Signature]
DATE: 6-12-88

DESIGN AND ENGINEERING
DAVID E. MC DANIEL, CO. INC.
1200 1/2 N. 10TH ST.
OSCEOLA, IN 46781

SPRINKLER LEGEND

QTY	SYM.	DESCRIPTION	UNIT	QTY	THRO.	ESCH.	FRIGH.
176	⊗	RELIEF VALVE & LIGHT	WS	176	1/2"	1/2"	1000
27	⊗	RELIEF VALVE CONCEALER	WS	27	1/2"	1/2"	1000

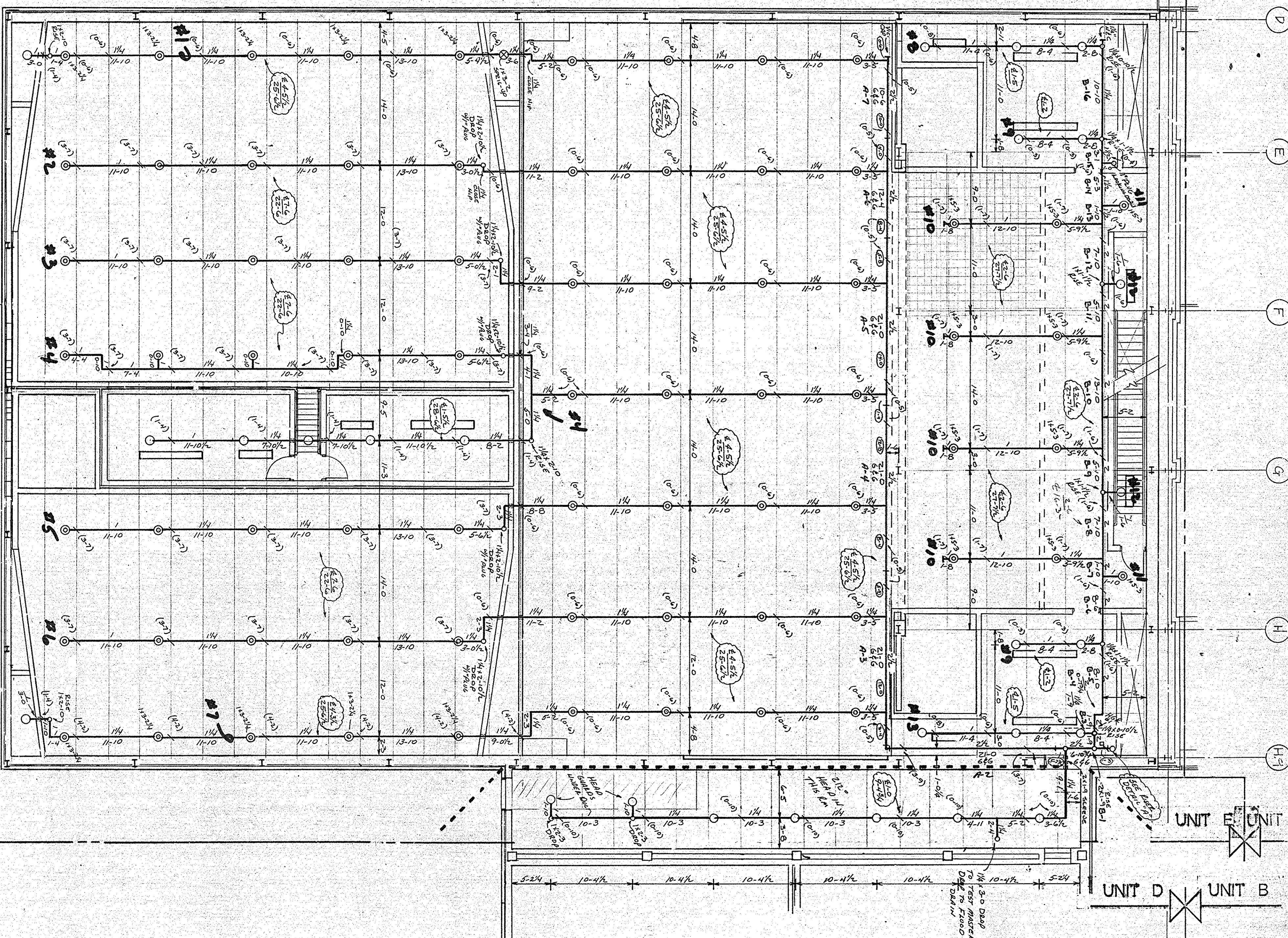
RESOURCES

NO.	DATE	REVISION
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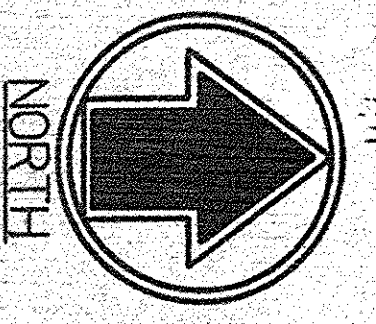
THIS DRAWING PREPARED FOR
FENN HIGH SCHOOL

OSCEOLA, INDIANA
FIRE PROTECTION
CALCULATED
BY: [Signature]
CHECKED: [Signature]
DATE: 6-12-88

DESIGN AND ENGINEERING
DAVID E. MC DANIEL, CO. INC.
1200 1/2 N. 10TH ST.
OSCEOLA, IN 46781



ALL Drops To Heads
1x0.2 (unless noted)



SPRINKLER LEGEND									
QTY	SYM.	SPRINKLER TYPE	TYPE	FINISH	COEF.	THRO.	ESCH.	FINISH	RESPONSIBILITIES
20	○	RELIEF AND LIGHT	ES	BRASS	1/2"	1/2"	1/2"	1/2"	SHEET WATER CONNECTION, INC. (MAD)
73	○	RELIEF C.I. CONCEALED	ES	BRASS	1/2"	1/2"	1/2"	1/2"	UNDERGROUND WATER MAINS
									EDUCATION (MAD)
									EXISTING (MAD)
									PAVING
									GRAND CONC. REDECI
									NO PIPE
									REWORK

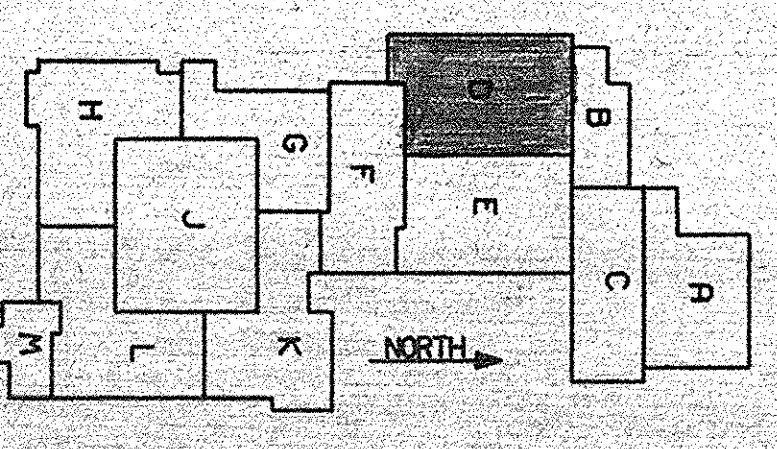
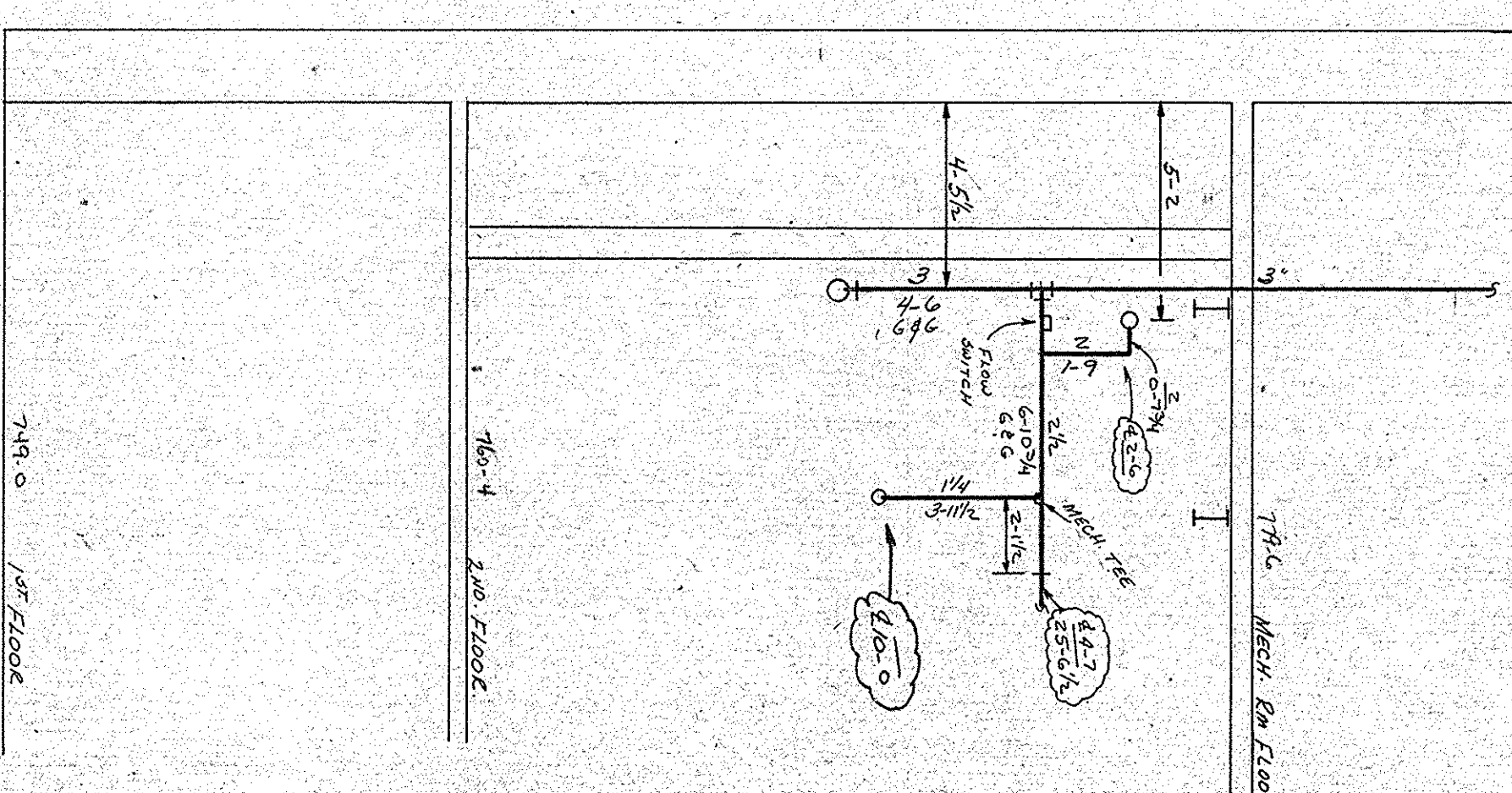
THIS DRAWING PREPARED FOR
OSCEOLA, INDIANA
FIRE PROTECTION

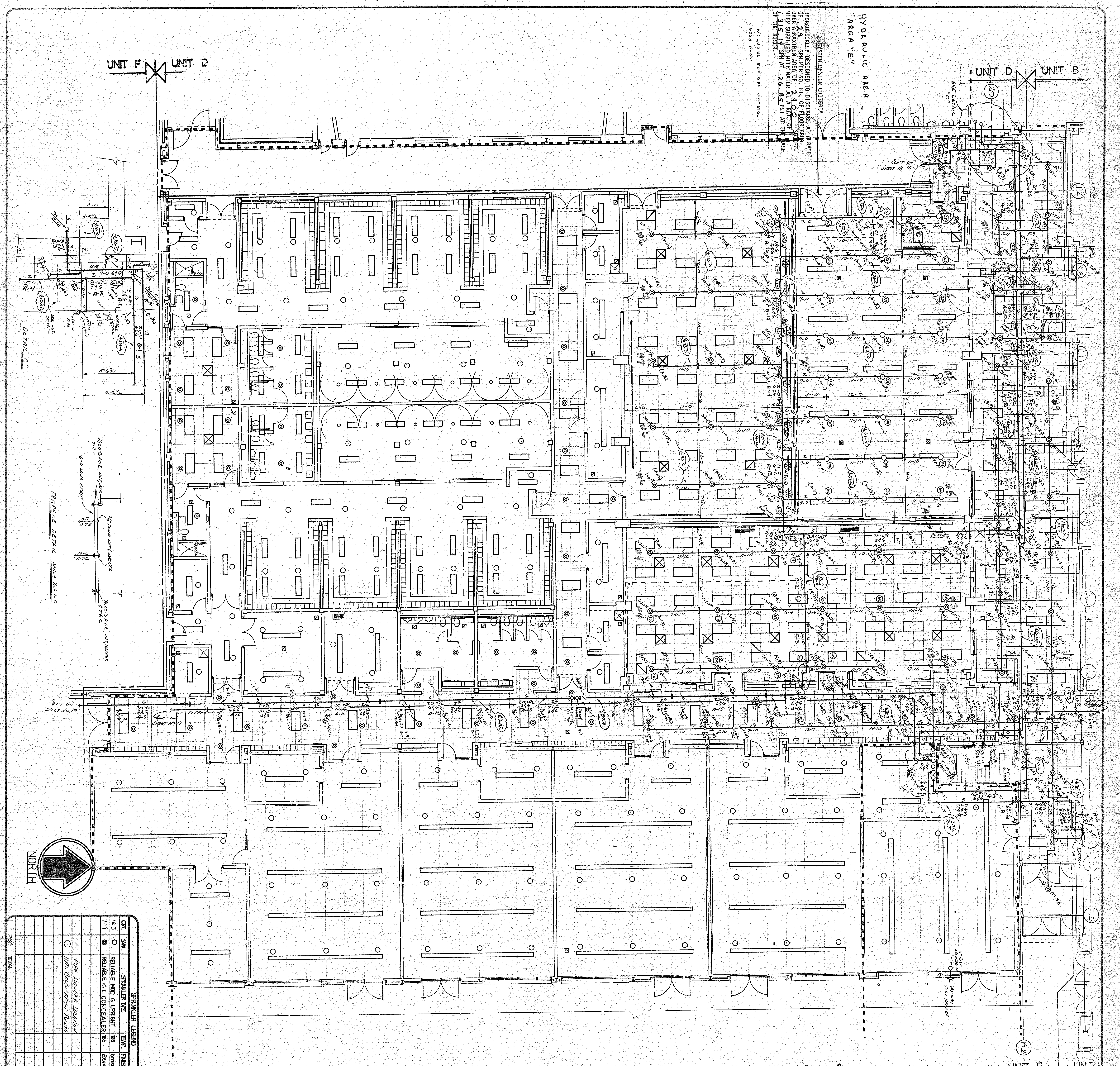
UNIT D SECOND FLOOR PIPING & REF. C.I.G. PLAN

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 11-15-83
SHEET NO. 17 OF 17

DESIGN AND ENGINEERING
DAVID E. MC DANIEL CO., INC.
100 W. MARKET ST., JOLIET, IL 62550
TELEPHONE: (312) 741-1111
FAX: (312) 741-1112

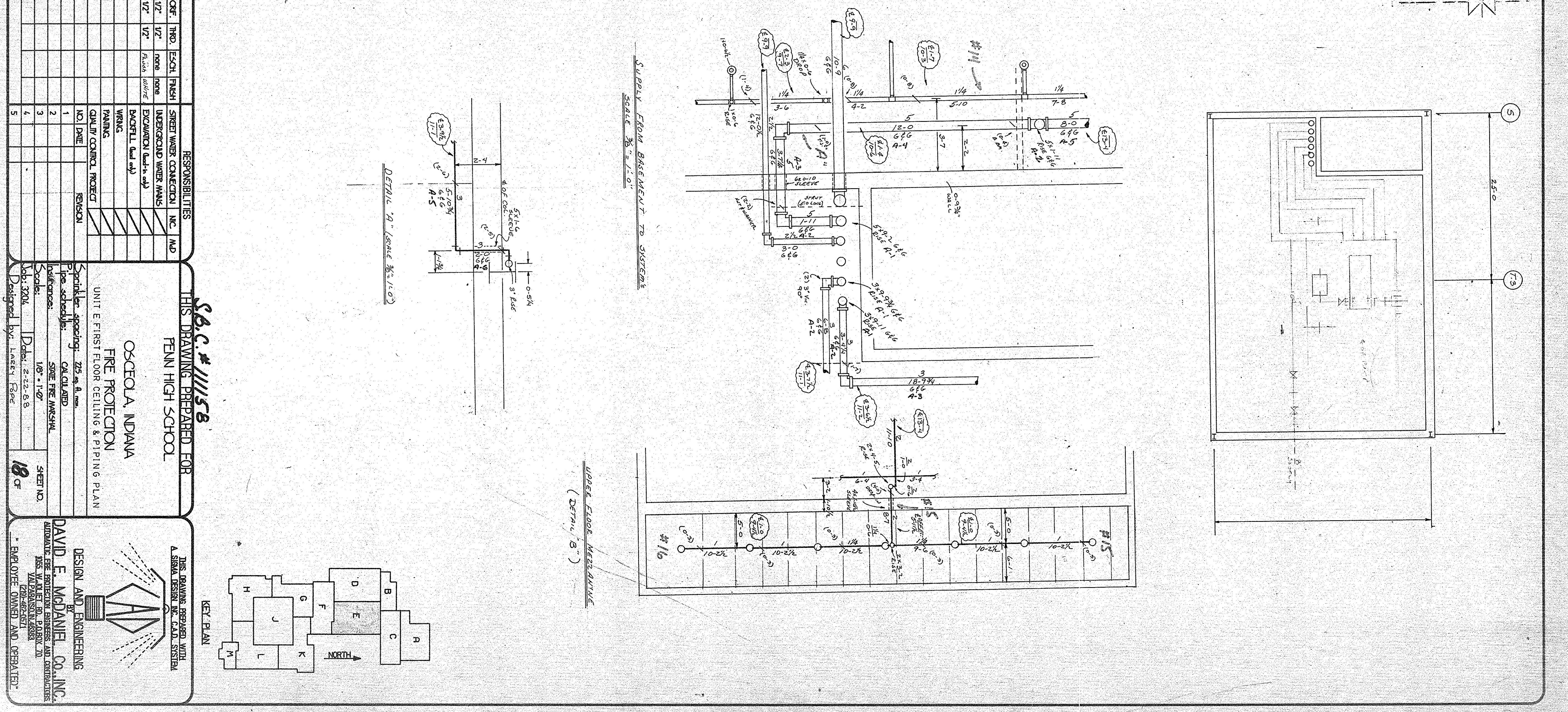
BASE DETAIL - 2"
SCALE 3/16" = 1'-0"

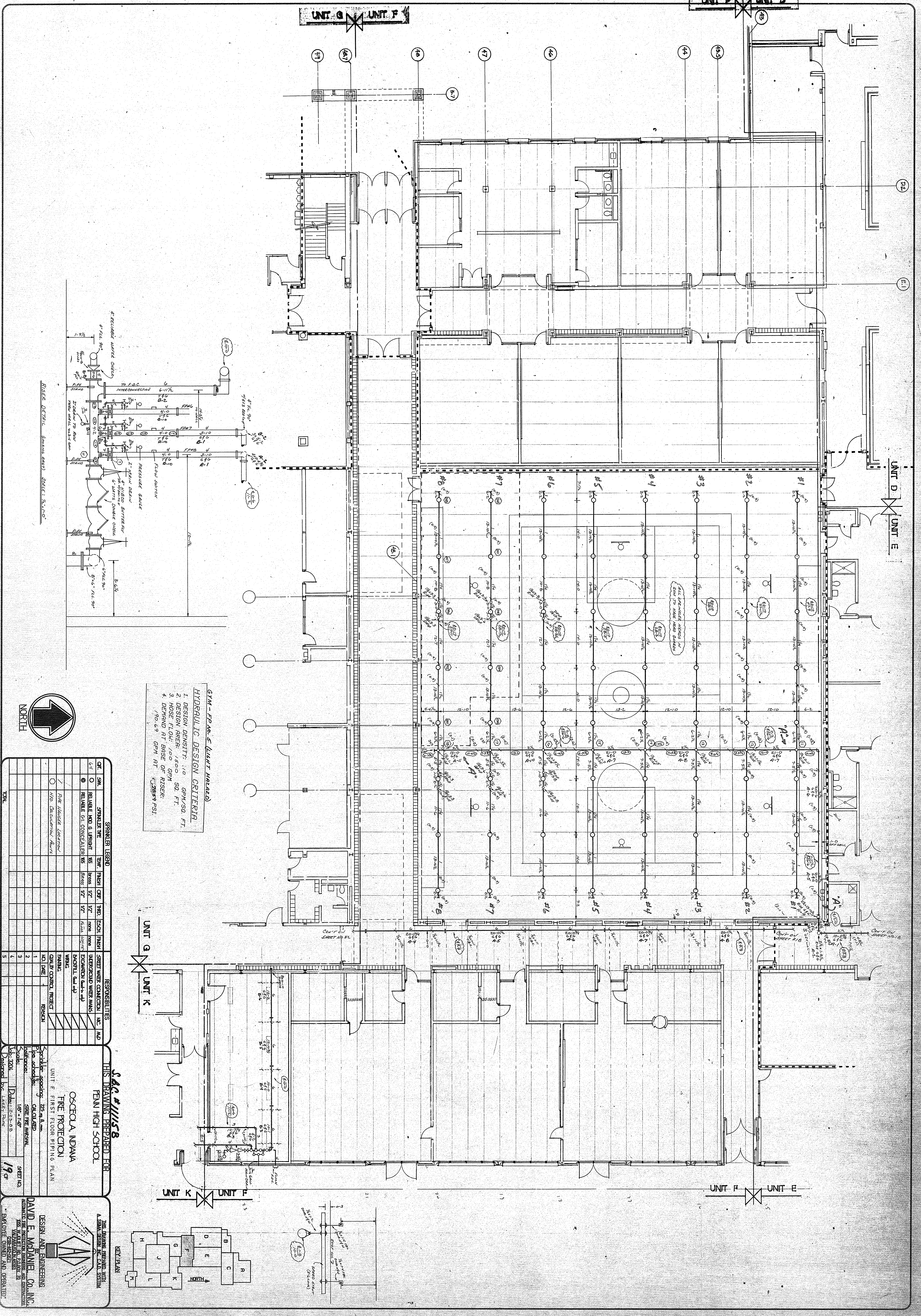




SPRINKLER LEGEND		RESPONSIBILITIES	
1/5	SPRINKLER TIE	TEMP	FRESH COF
1/6	RELIEF VALVE & UPRIGHT	55	ESCH
1/7	RELIEF VALVE & UPRIGHT	55	ESCH
1/8	RELIEF VALVE & UPRIGHT	55	ESCH
1/9	RELIEF VALVE & UPRIGHT	55	ESCH
1/10	RELIEF VALVE & UPRIGHT	55	ESCH
1/11	RELIEF VALVE & UPRIGHT	55	ESCH
1/12	RELIEF VALVE & UPRIGHT	55	ESCH
1/13	RELIEF VALVE & UPRIGHT	55	ESCH
1/14	RELIEF VALVE & UPRIGHT	55	ESCH
1/15	RELIEF VALVE & UPRIGHT	55	ESCH
1/16	RELIEF VALVE & UPRIGHT	55	ESCH
1/17	RELIEF VALVE & UPRIGHT	55	ESCH
1/18	RELIEF VALVE & UPRIGHT	55	ESCH
1/19	RELIEF VALVE & UPRIGHT	55	ESCH
1/20	RELIEF VALVE & UPRIGHT	55	ESCH
1/21	RELIEF VALVE & UPRIGHT	55	ESCH
1/22	RELIEF VALVE & UPRIGHT	55	ESCH
1/23	RELIEF VALVE & UPRIGHT	55	ESCH
1/24	RELIEF VALVE & UPRIGHT	55	ESCH
1/25	RELIEF VALVE & UPRIGHT	55	ESCH
1/26	RELIEF VALVE & UPRIGHT	55	ESCH
1/27	RELIEF VALVE & UPRIGHT	55	ESCH
1/28	RELIEF VALVE & UPRIGHT	55	ESCH
1/29	RELIEF VALVE & UPRIGHT	55	ESCH
1/30	RELIEF VALVE & UPRIGHT	55	ESCH

THIS DRAWING PREPARED FOR
PENNSYLVANIA HIGH SCHOOL
OSCEOLA, INDIANA
FIRE PROTECTION
UNIT E FIRST FLOOR CEILING & PIPING PLAN
Scale: 1/8" = 1'-0"
Date: 2-22-55
SHEET NO. 18 OF 18
DESIGN AND ENGINEERING
DAVID E. McJANNET, INC.
1000 E. 10TH AVE., SUITE 100
DENVER, COLORADO 80202
EMPLOYEE OWNED AND OPERATED





GYM - 77' x 51' (LIGHT HAZARD)
HYDRAULIC DESIGN CRITERIA
1. DESIGN DENSITY: 1.0 GPM/50 FT.
2. DESIGN AREA: 1500 SQ. FT.
3. HOSE FLOW: 100 GPM
4. DEMAND AT BASE OF RISER:
190.63 GPM AT 128.99 PSI

SPRINKLER LEGEND

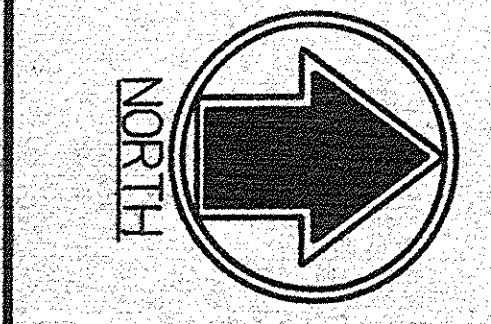
SYMBOL	SPRINKLER TYPE	TEMP.	RATING	COEF.	THRO.	EQ.	FR.	ST.	WATER CONNECTION	IN.	OUT.
○	RELIEF AND UPRIGHT	155	155	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
○	RELIEF AND CONCEALED	155	155	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
○	TYPE 155	155	155	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
○	TYPE 155	155	155	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

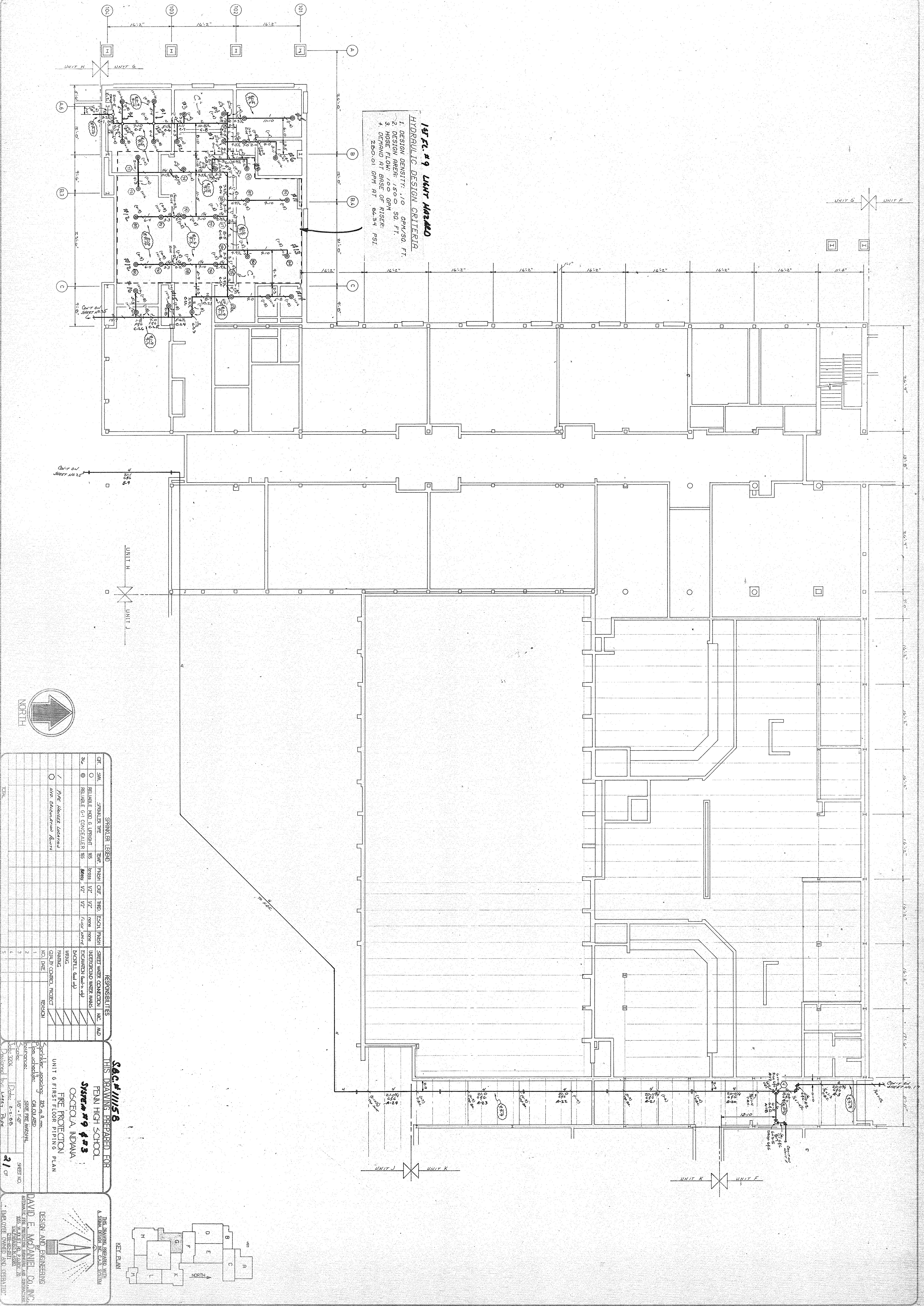
RESPONSIBILITIES

NO.	DATE	REASON
1		
2		
3		
4		
5		

THIS DRAWING PREPARED FOR
PENN HIGH SCHOOL
OSCEOLA, INDIANA
FIRE PROTECTION
UNIT F FIRST FLOOR PIPING PLAN
Scale: 1/8" = 1'-0"
SHEET NO. 19a
DESIGNED BY: LARRY RICE
CHECKED BY: DAVID E. McMANIS
DATE: 12-23-08

DESIGN AND ENGINEERING
DAVID E. McMANIS, CO. INC.
1000 W. 100th St., Suite 100
Osceola, IN 46781
PHONE: 765-682-1111
FAX: 765-682-1112
WWW.DEMCOINC.COM





1ST FLOOR UNIT HAZARD
HYDRAULIC DESIGN CRITERIA
1. DESIGN DENSITY: .10 GPM/50 FT.
2. DESIGN AREA: 1500 SQ. FT.
3. HOSE FLOW: 100 GPM
4. DEMAND AT BASE OF RISER:
280.01 GPM AT 84.34 PSI

SPRINKLER LEGEND									
SYM.	TYPE	FINISH	COF.	THRO.	ESCH.	FINISH	RESPONSIBILITIES		
○	SPRINKLER W/VE	BRSS	1/2"	1/2"	1/2"	1/2"	SHRINKER WATER CONNECTION	N.C.	N.D.
○	RELIABLE AND G. SPRINKLER	BRSS	1/2"	1/2"	1/2"	1/2"	EXTERIOR WATER MAINS		
○	RELIABLE G-1 CONCEALER	BRSS	1/2"	1/2"	1/2"	1/2"	EXTERIOR WATER MAINS		
○	PIPE HANGER						PIPE HANGER		
○	W/O CONCEALER						W/O CONCEALER		

RESPONSIBILITIES									
NO.	DATE	REVISION	BY	CHKD.	APPROVED	REASON	DATE	BY	CHKD.
1									
2									
3									
4									
5									

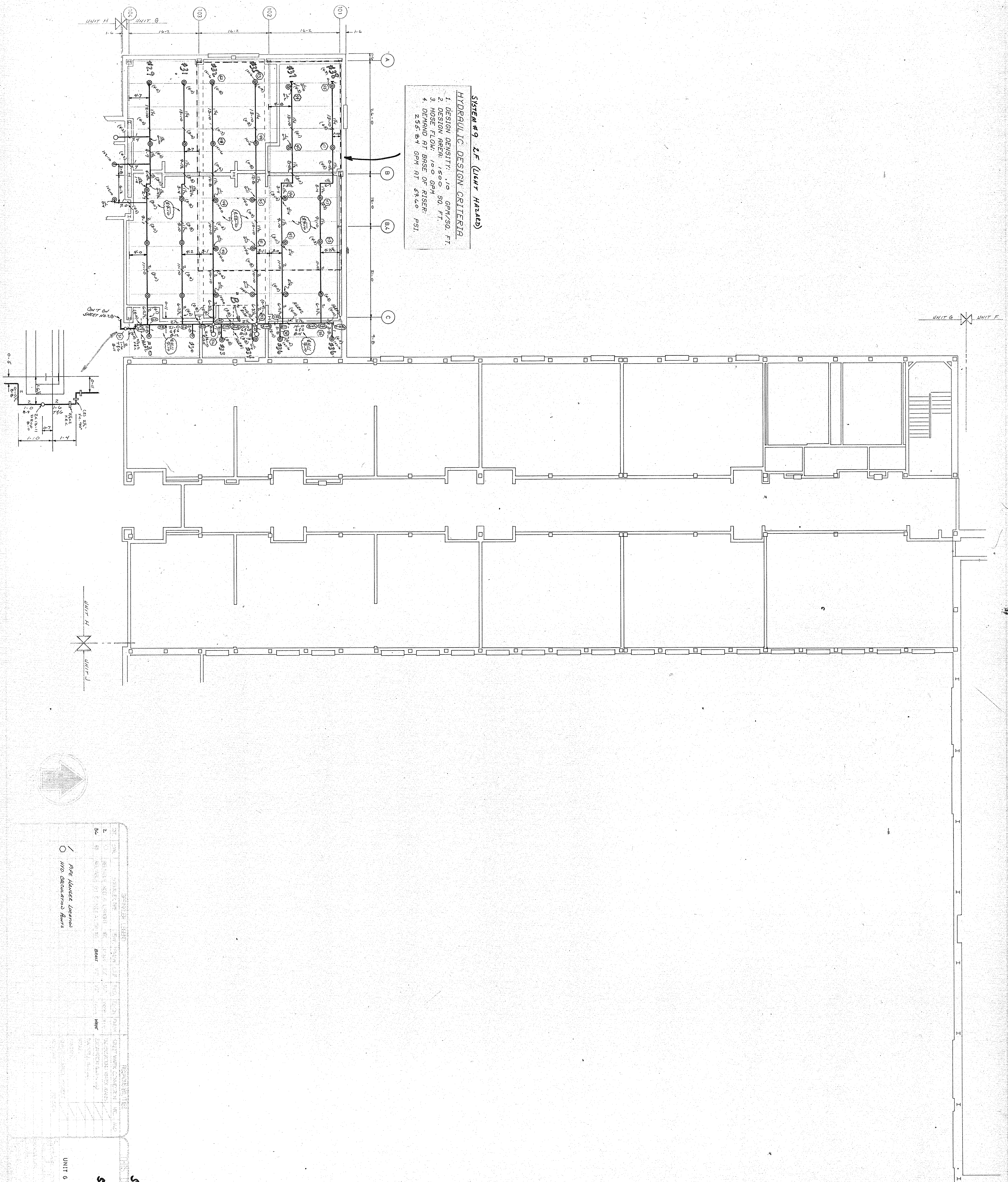
SAC#11158
THIS DRAWING PREPARED FOR
PENN HIGH SCHOOL
OSCEOLA INDIANA
FIRE PROTECTION
UNIT G FIRST FLOOR PIPING PLAN

Scale: 1/8" = 1'-0"
Date: 2-2-88
Sheet No. 21 of 21

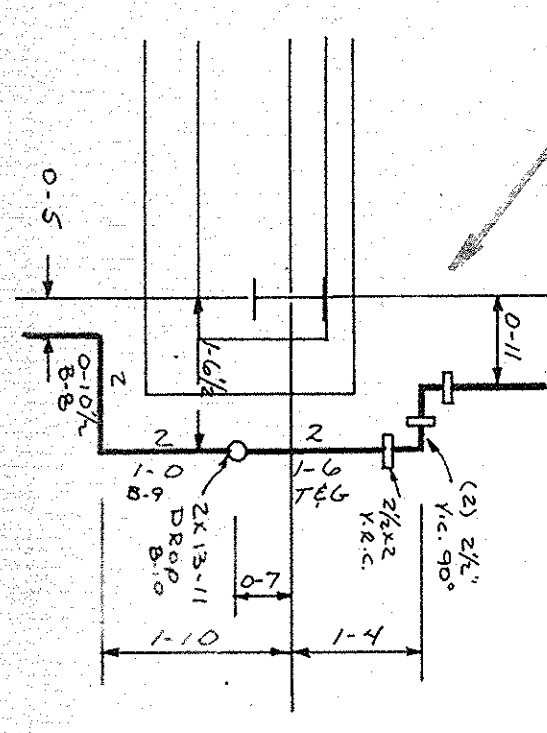
DESIGN AND ENGINEERING
DAVID E. McMANIS, CO., INC.
REGISTERED PROFESSIONAL ENGINEER AND ARCHITECT
INDIANA LICENSE NO. 10,000
INDIANA LICENSE NO. 10,000
INDIANA LICENSE NO. 10,000

THIS DRAWING PREPARED WITH
A SPARK DESIGN INC. CAD SYSTEM

KEY PLAN



SYSTEM #9 2F (LIGHT HAZARD)
HYDRAULIC DESIGN CRITERIA
1. DESIGN DENSITY: .10 GPM/50. FT.
2. DESIGN AREA: 1500. 90. FT.
3. HOSE FLOW: 100 GPM
4. DEMAND AT BASE OF RISER:
254.84 GPM AT 59.40 PSI.



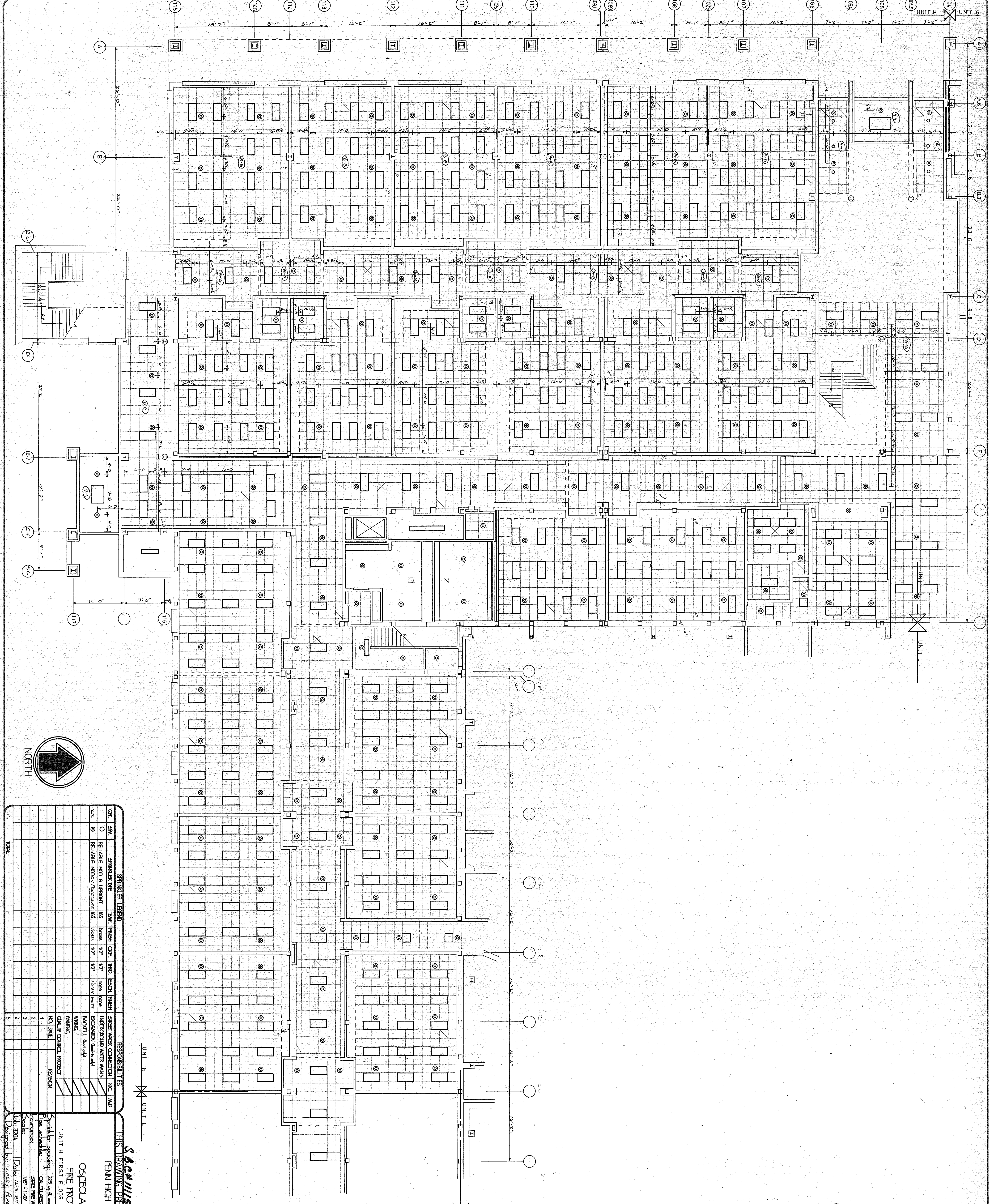
NO.	DESCRIPTION	REVISIONS
1	ISSUED FOR PERMIT	
2	ISSUED FOR CONSTRUCTION	
3	ISSUED FOR AS-BUILT	

UNIT 6 SECOND FLOOR PIPING PLAN

SYSTEM #9 2F

DATE: 2-8-88

23



SPRINKLER LEGEND

SYMBOL	DESCRIPTION	TYPE	FRONT	BACK	TOP	RIGHT	LEFT	FRONT	BACK	TOP	RIGHT	LEFT
○	RELIEF VALVE & LIGHT	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS
○	RELIEF VALVE & LIGHT	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS	BS

RESPONSIBILITIES

RESPONSIBILITY	RESPONSIBILITY	RESPONSIBILITY	RESPONSIBILITY	RESPONSIBILITY	RESPONSIBILITY	RESPONSIBILITY	RESPONSIBILITY	RESPONSIBILITY	RESPONSIBILITY	RESPONSIBILITY	RESPONSIBILITY	RESPONSIBILITY
RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT
RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT	RELIEF VALVE & LIGHT

THIS DRAWING PREPARED FOR

PENN HIGH SCHOOL

OSCEOLA, INDIANA

FIRE PROTECTION

UNIT H FIRST FLOOR REFLECTED CLG.

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

DATE: 12-3-87

DESIGNED BY: LARRY RICE

26 OF

DAVID E. McJANNET, CO., INC.

DESIGN AND ENGINEERING

1000 E. 10TH AVENUE, SUITE 100

INDIANAPOLIS, INDIANA 46202

PHONE: (317) 634-1111

FAX: (317) 634-1112

TELETYPE: (317) 634-1113

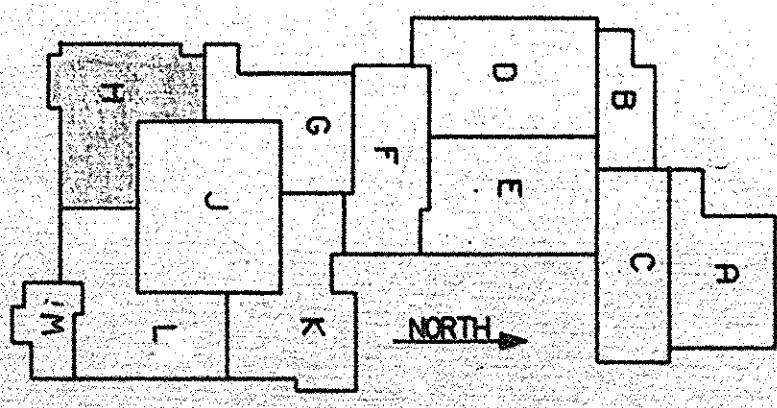
EMAIL: DMM@DEMC.COM

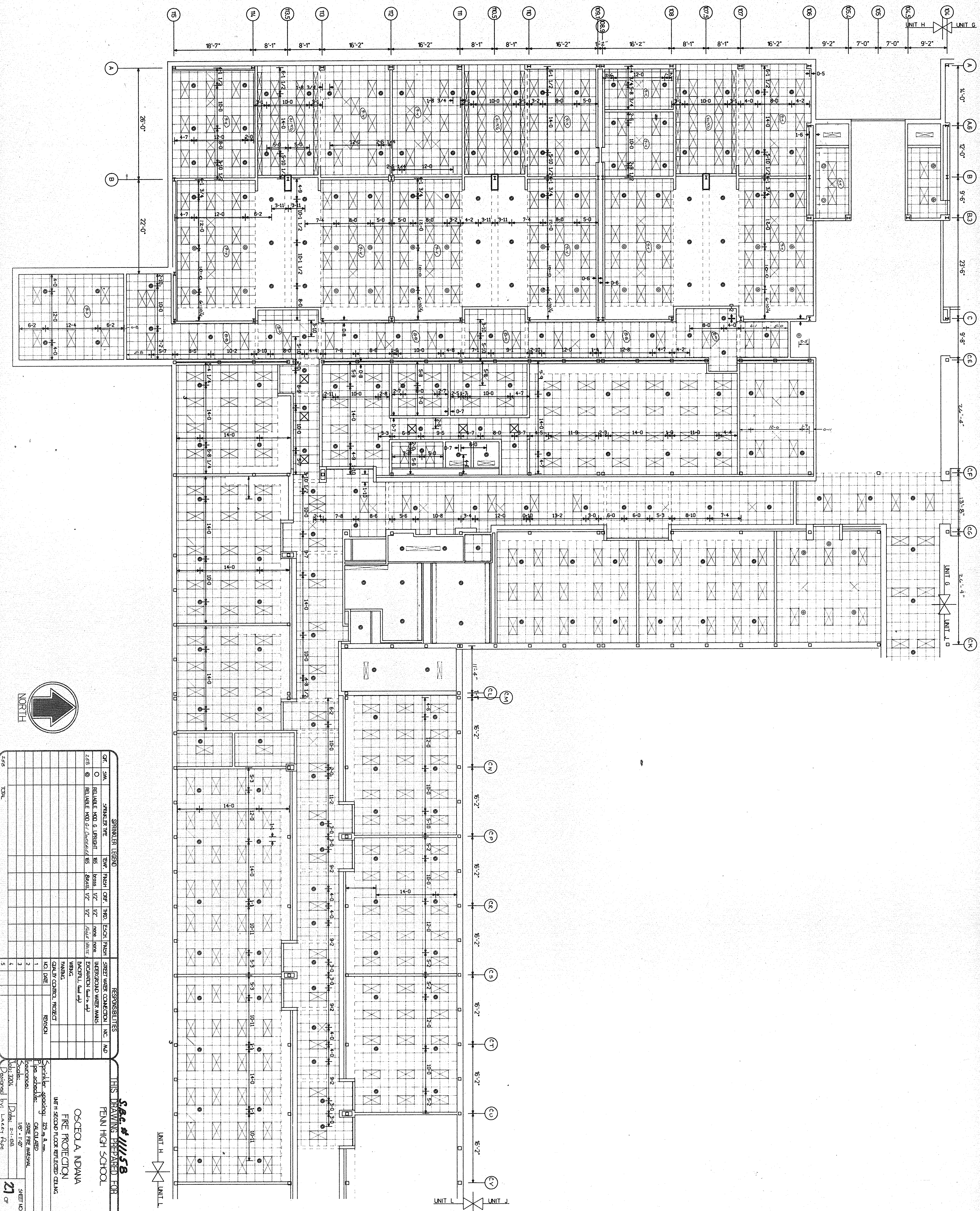
WWW: WWW.DEMC.COM

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SPRINKLER LEGEND

SYM.	TYPE	TEMP.	FRASH	CRF.	THRO.	ESCH.	FRASH
○	RELIABLE AND G. UPRIGHT	85	BRASS	1/2"	1/2"	ROOM	ROOM
○	RELIABLE AND G. UPRIGHT	85	BRASS	1/2"	1/2"	ROOF	WHITE

RESPONSIBILITIES

NO.	DATE	REVISION
1		
2		
3		
4		
5		

THIS DRAWING PREPARED FOR

OSCEOLA, INDIANA

FIRE PROTECTION

UNIT 1: FIRST FLOOR REFLECTED CEILING

DESIGN AND ENGINEERING

DAVID E. McMANIS, CO. INC.

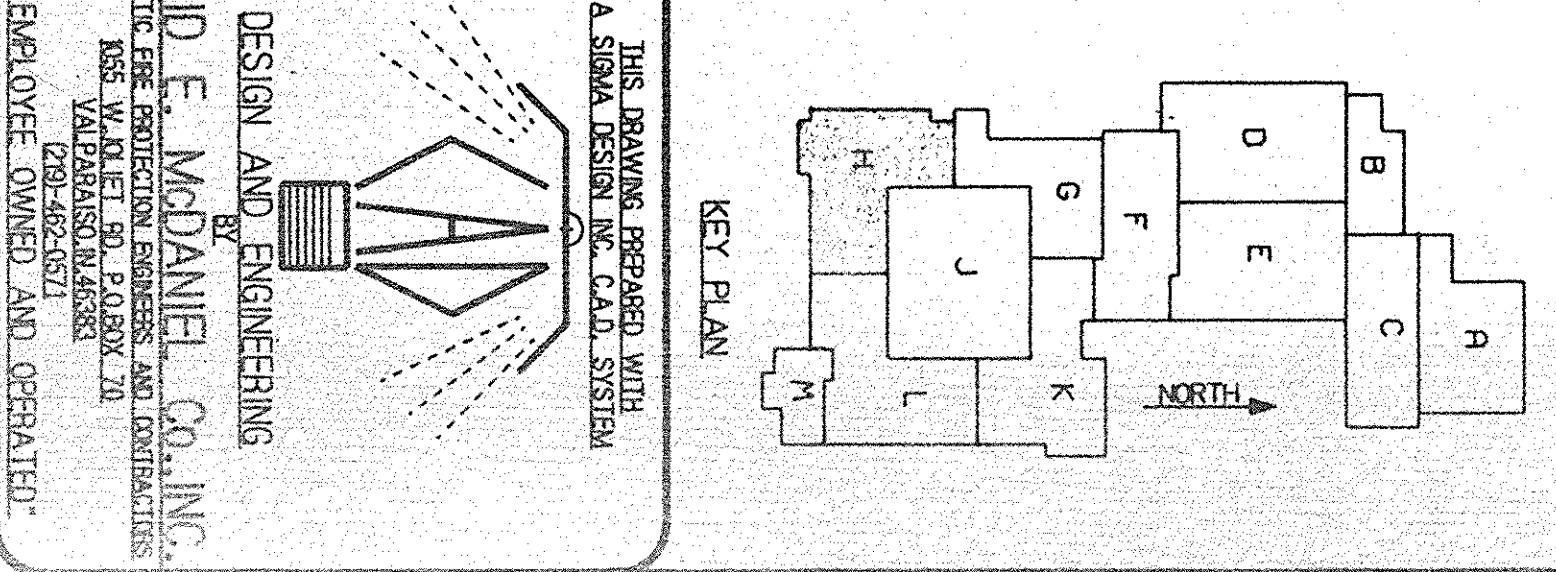
100 N. W. 10th St.

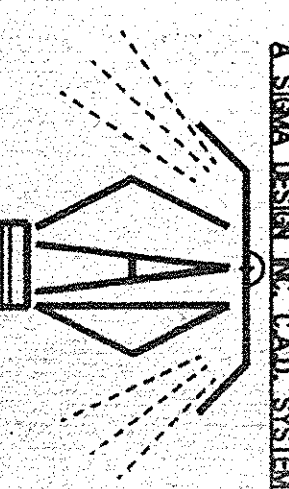
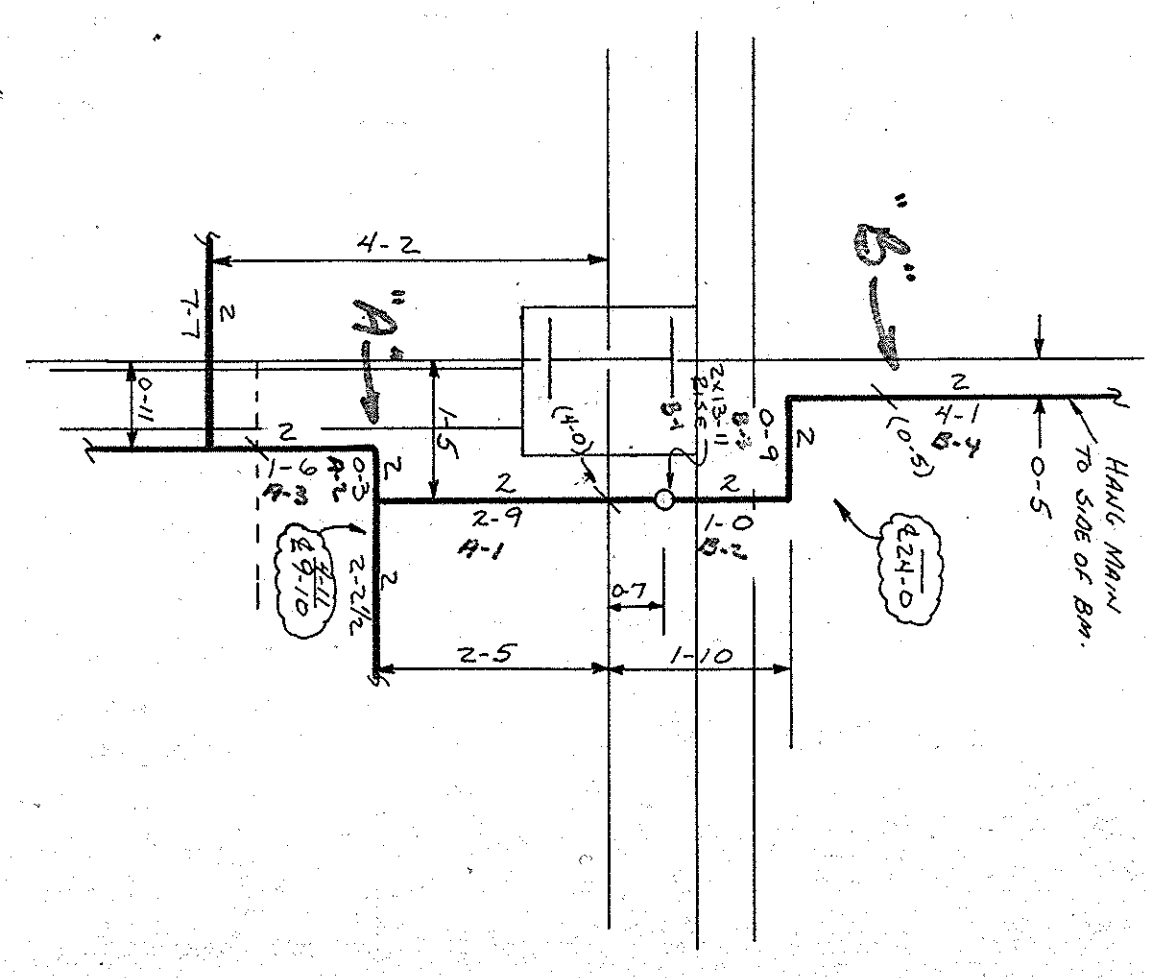
OSCEOLA, IN 46781

EMPLOYEE OWNED AND OPERATED

DATE: 2-1-88

SHEET NO. 21 OF 27





SPRINKLER LEGEND										RESPONSIBILITIES									
QTY	3M	SPRINKLER TYPE	TRIP	FLUSH	ORF.	THRD.	EQN.	FINISH	SHEET WARD	CONNECT	INC.	MD							
29	0	RELIEF AND E-UPRIGHT	85	brass	1/2"	1/2"	none	none	UNDERGROUND W/EL. MANS.										
256	0	RELIEF AND E-UPRIGHT	85	brass	1/2"	1/2"	factory	white	EXCAVATION (with 4th)										
													PAINTING						
													QUALITY CONTROL PROJECT						
													NO. DATE						
													REASON						
													1						
													2						
													3						
													4						
													5						
													TOTAL						

SPRINKLER SPECIFICATIONS: 25% AT 100'

FOR SCHOOLS: CALCULATED

REFERENCE: SMOKE FREE MAXIMUM

Notes: 10' x 11'0"

Job: 2004

Designed BY: LARRY L. FRANK

THIS DRAWING PREPARED FOR

PENN HIGH SCHOOL

SYSTEM #9

OSCEOLA, INDIANA

FIRE PROTECTION

WITH SECOND FLOOR FINISH PLUMB

SHEET NO. 28 OF 28

DESIGN AND ENGINEERING

DAVID E. MCANULTY CO. INC.

ALUMINUM, STEEL, FABRICATING, WELDING, AND CONSTRUCTION

1000 W. MARKET ST., PORTLAND, ME 04106-4670

TEL: 207-868-4571

FAX: 207-868-4571

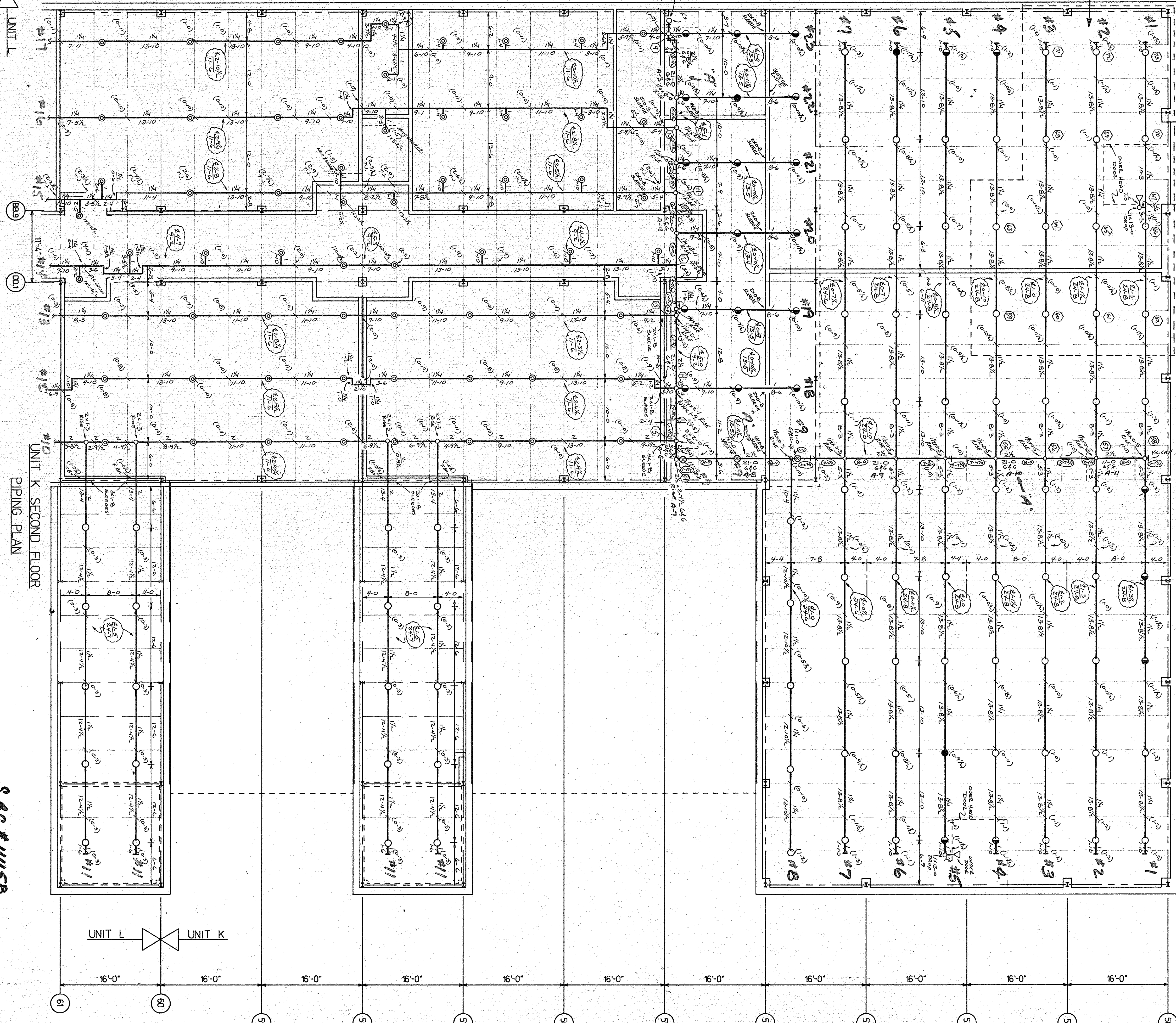
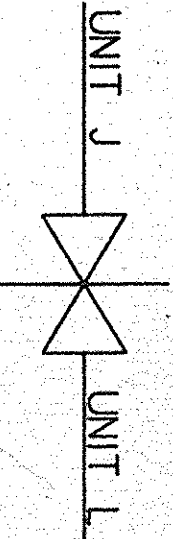
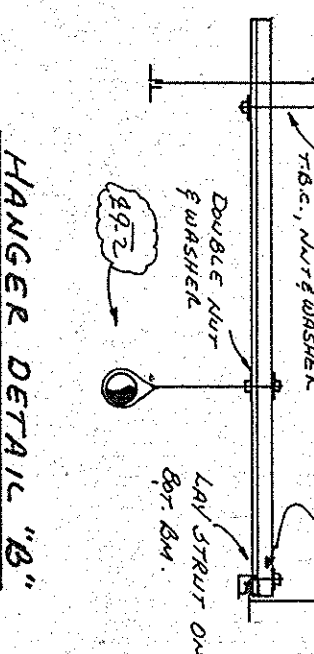
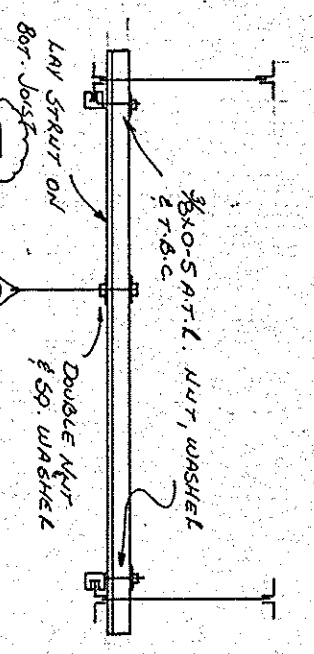
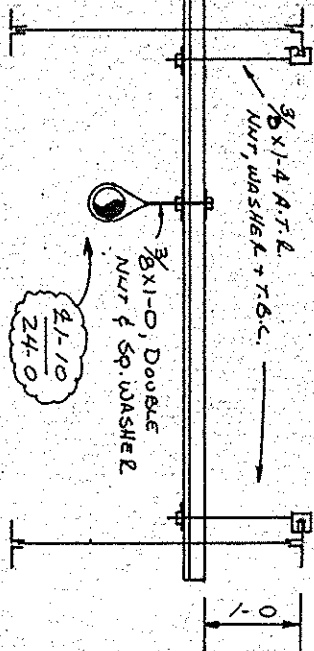
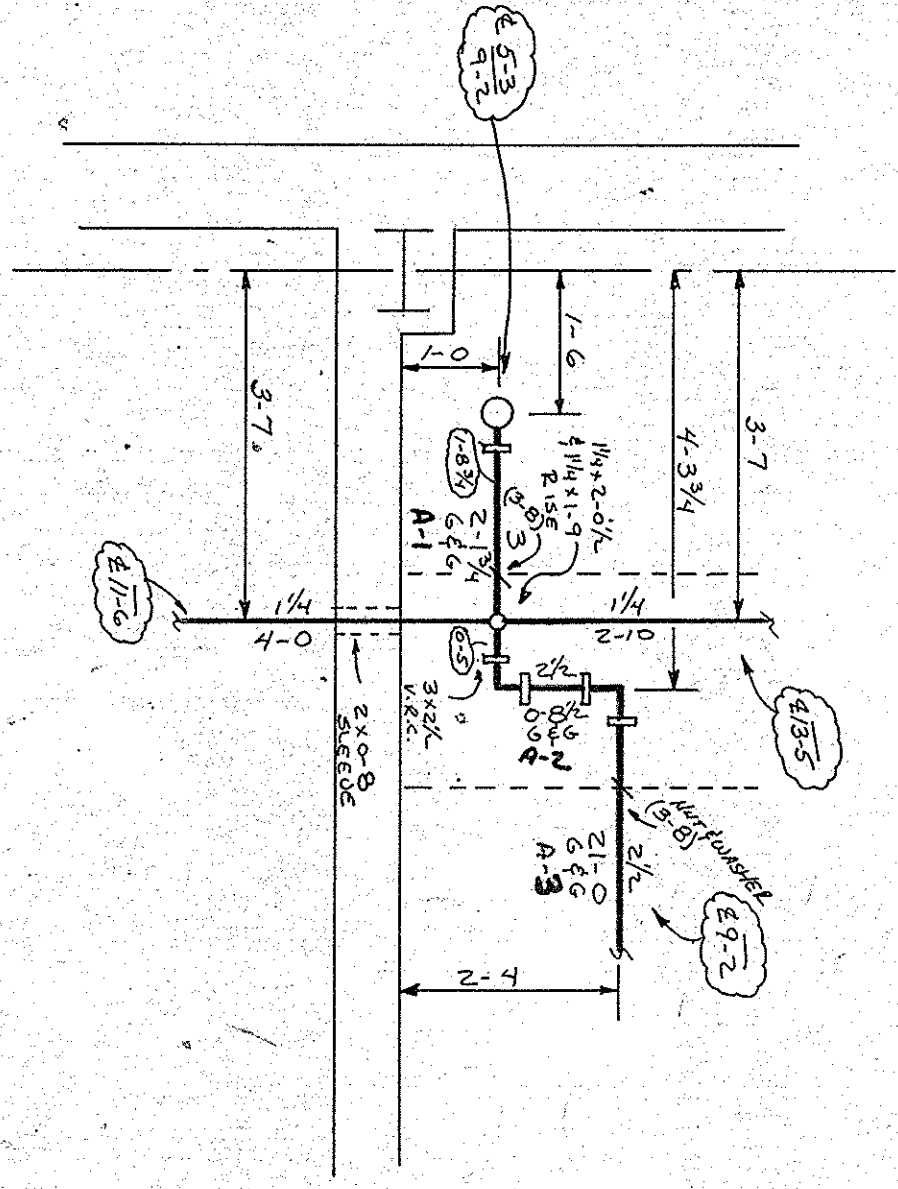
* END USER OWNED AND OPERATED *

THIS DRAWING PREPARED WITH
A CAD SYSTEM OR CAD SYSTEM

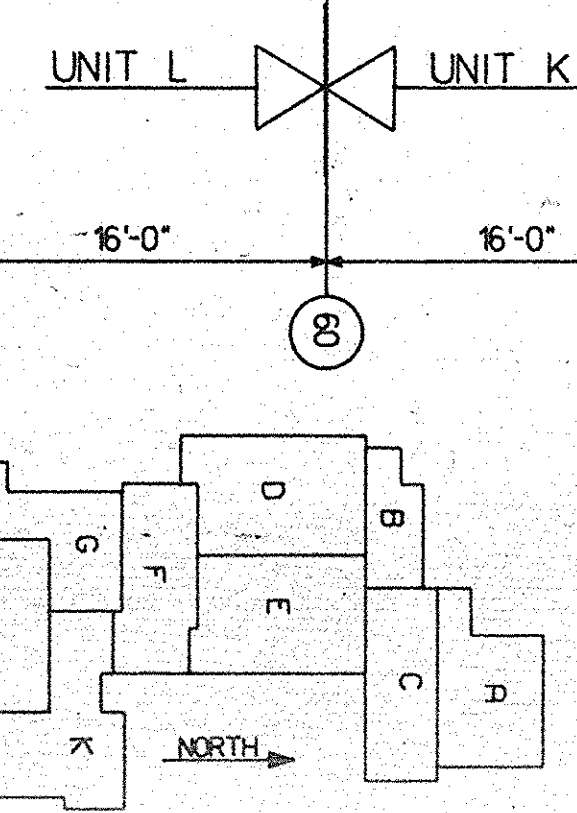
(2) (SEE A1.8. 02/01/01 (11/01/01) (11/01/01))

HYDRAULIC DESIGN CRITERIA

1. DESIGN DENSITY: 1.9 GPM/50 FT.
2. DESIGN AREA: 1500 SQ. FT.
3. HOSE FLOW: 250 GPM
4. DEMAND AT BASE OF RISER:
348.04 GPM AT 103.71 PSI



UNIT K SECOND FLOOR
PIPING PLAN



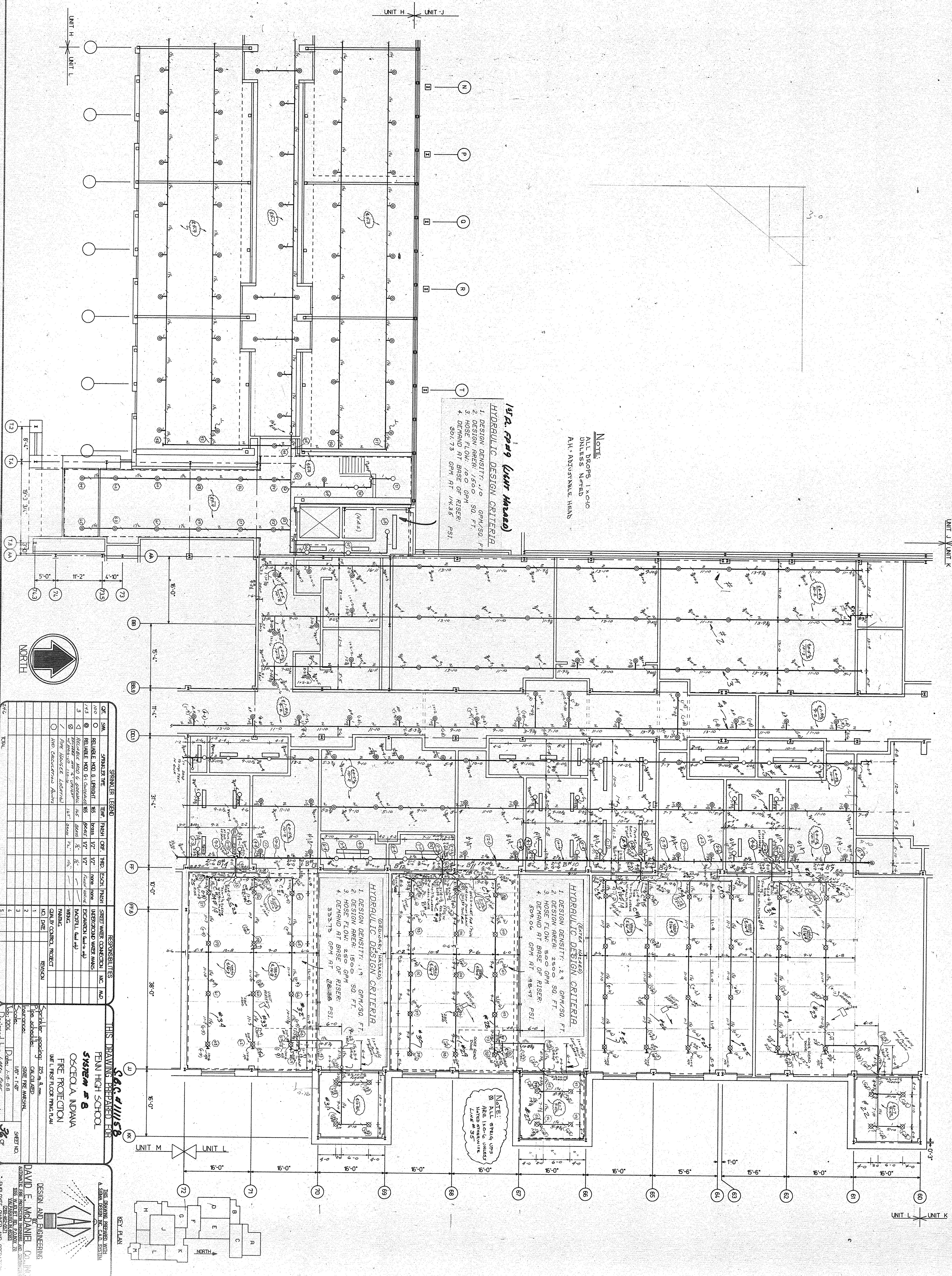
KEY PLAN

SPRINKLER LEGEND

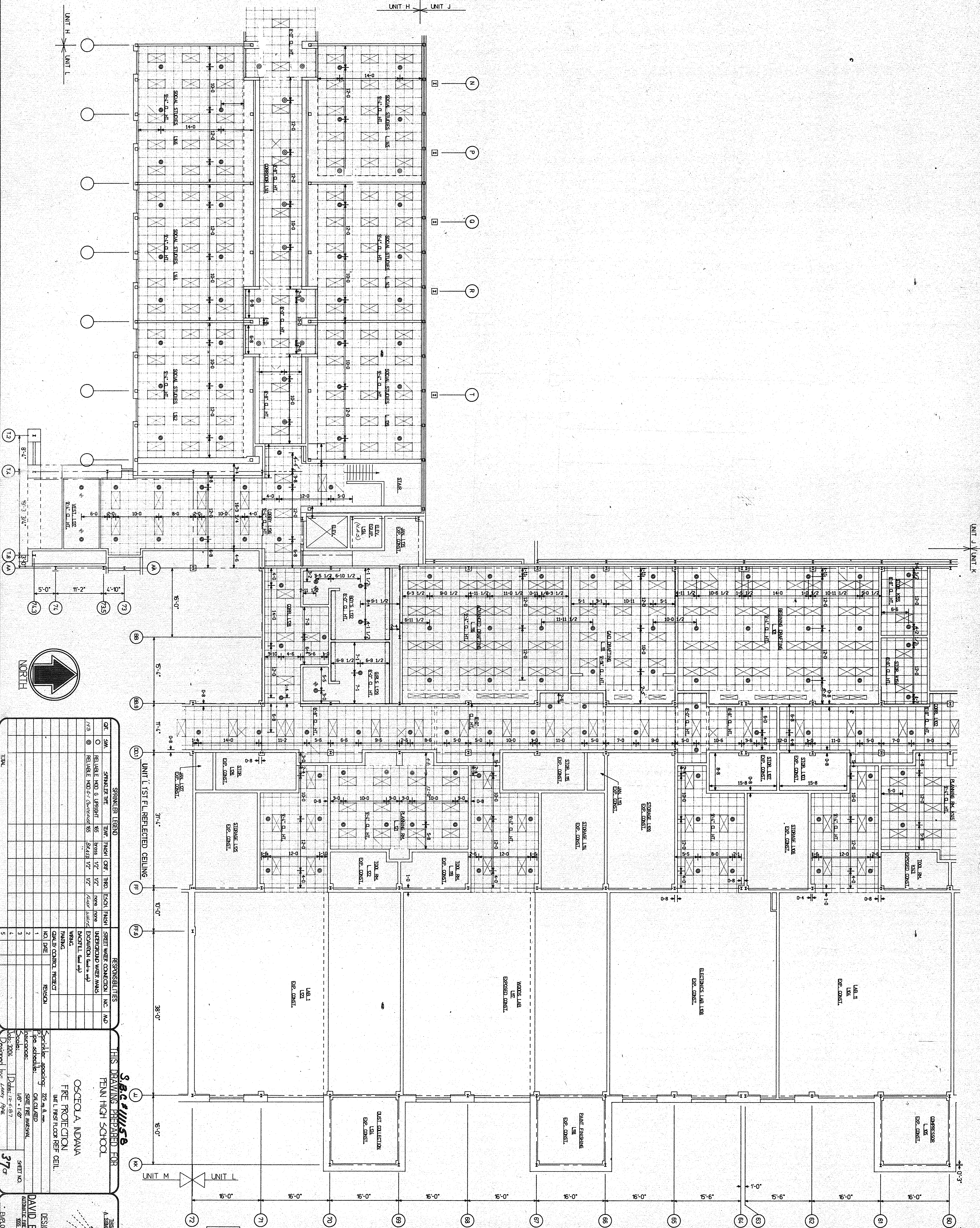
SYMBOL	SPRINKLER TYPE	TEMP.	RATED	ORF.	TRIP	ESCH.	INCH.	RESP.	REMARKS
ES-2	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 1
ES-3	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 2
ES-4	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 3
ES-5	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 4
ES-6	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 5
ES-7	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 6
ES-8	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 7
ES-9	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 8
ES-10	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 9
ES-11	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 10
ES-12	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 11
ES-13	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 12
ES-14	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 13
ES-15	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 14
ES-16	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 15
ES-17	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 16
ES-18	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 17
ES-19	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 18
ES-20	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 19
ES-21	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 20
ES-22	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 21
ES-23	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 22
ES-24	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 23
ES-25	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 24
ES-26	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 25
ES-27	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 26
ES-28	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 27
ES-29	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 28
ES-30	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 29
ES-31	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 30
ES-32	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 31
ES-33	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 32
ES-34	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 33
ES-35	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 34
ES-36	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 35
ES-37	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 36
ES-38	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 37
ES-39	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 38
ES-40	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 39
ES-41	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 40
ES-42	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 41
ES-43	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 42
ES-44	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 43
ES-45	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 44
ES-46	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 45
ES-47	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 46
ES-48	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 47
ES-49	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 48
ES-50	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 49
ES-51	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 50
ES-52	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 51
ES-53	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 52
ES-54	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 53
ES-55	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 54
ES-56	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 55
ES-57	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 56
ES-58	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 57
ES-59	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 58
ES-60	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 59
ES-61	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 60
ES-62	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 61
ES-63	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 62
ES-64	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 63
ES-65	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 64
ES-66	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 65
ES-67	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 66
ES-68	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 67
ES-69	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 68
ES-70	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 69
ES-71	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 70
ES-72	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 71
ES-73	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 72
ES-74	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 73
ES-75	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 74
ES-76	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 75
ES-77	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 76
ES-78	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 77
ES-79	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 78
ES-80	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 79
ES-81	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 80
ES-82	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 81
ES-83	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 82
ES-84	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 83
ES-85	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 84
ES-86	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 85
ES-87	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 86
ES-88	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 87
ES-89	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 88
ES-90	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 89
ES-91	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 90
ES-92	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 91
ES-93	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 92
ES-94	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 93
ES-95	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 94
ES-96	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 95
ES-97	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 96
ES-98	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 97
ES-99	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 98
ES-100	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 99
ES-101	RELIEF AND B. UPRIGHT	65	BRASS	1/2"	1/2"	FROM	100PS	STREET WATER CONNECTION	NO. 100

THIS DRAWING PREPARED FOR
FENN HIGH SCHOOL
OSCEOLA, INDIANA
FIRE PROTECTION
UNITS K SECOND FLOOR PIPING PLAN
CALCULATED
SHEET NO. 34 OF 34
DESIGNED BY: LARRY RAY

DAVID E. MCDANIEL CO., INC.
DESIGN AND ENGINEERING
A SMALL DESIGN INC. CAD SYSTEM
AUTOMATIC FIRE PROTECTION ENGINEERING AND OPERATIONS
1000 W. 10TH STREET
OSCEOLA, INDIANA 46783
PH: 765-234-1234
FAX: 765-234-1235
WWW.DEMCOINC.COM



DESIGN AND ENGINEERING
BY
VID E. MCDANIEL CO. INC.
PLASTIC PIPE PROTECTION PRODUCTS AND SYSTEMS
3365 W. N. 1ST PL. P.O. BOX 70
VAD PARASO, IN 46383
(219) 462-0571



SPRINKLER LEGEND

SYMBOL	DESCRIPTION
○	RELIEF VALVE & LIGHTING
○	RELIEF VALVE & LIGHTING

RESPONSIBILITIES

NO.	DATE	REVISION
1		
2		
3		
4		
5		

THIS DRAWING PREPARED FOR

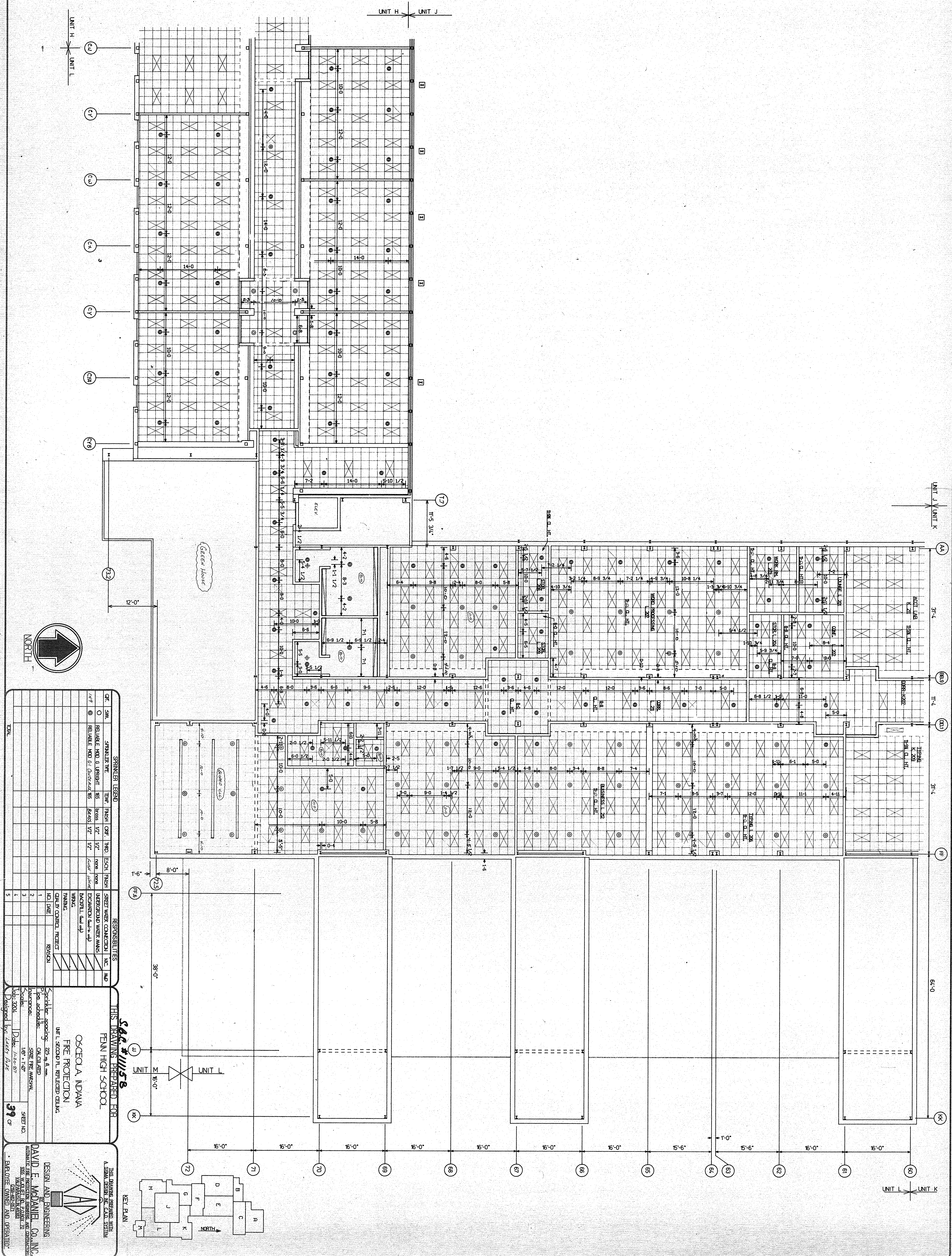
OSCEOLA, INDIANA
FIRE PROTECTION
UNIT 1 FIRST FLOOR REF. CEIL.

DESIGN AND ENGINEERING

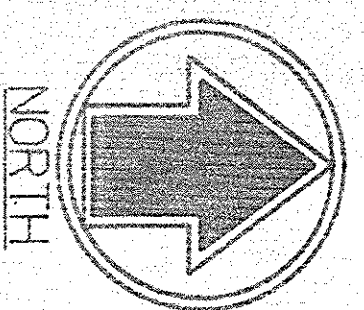
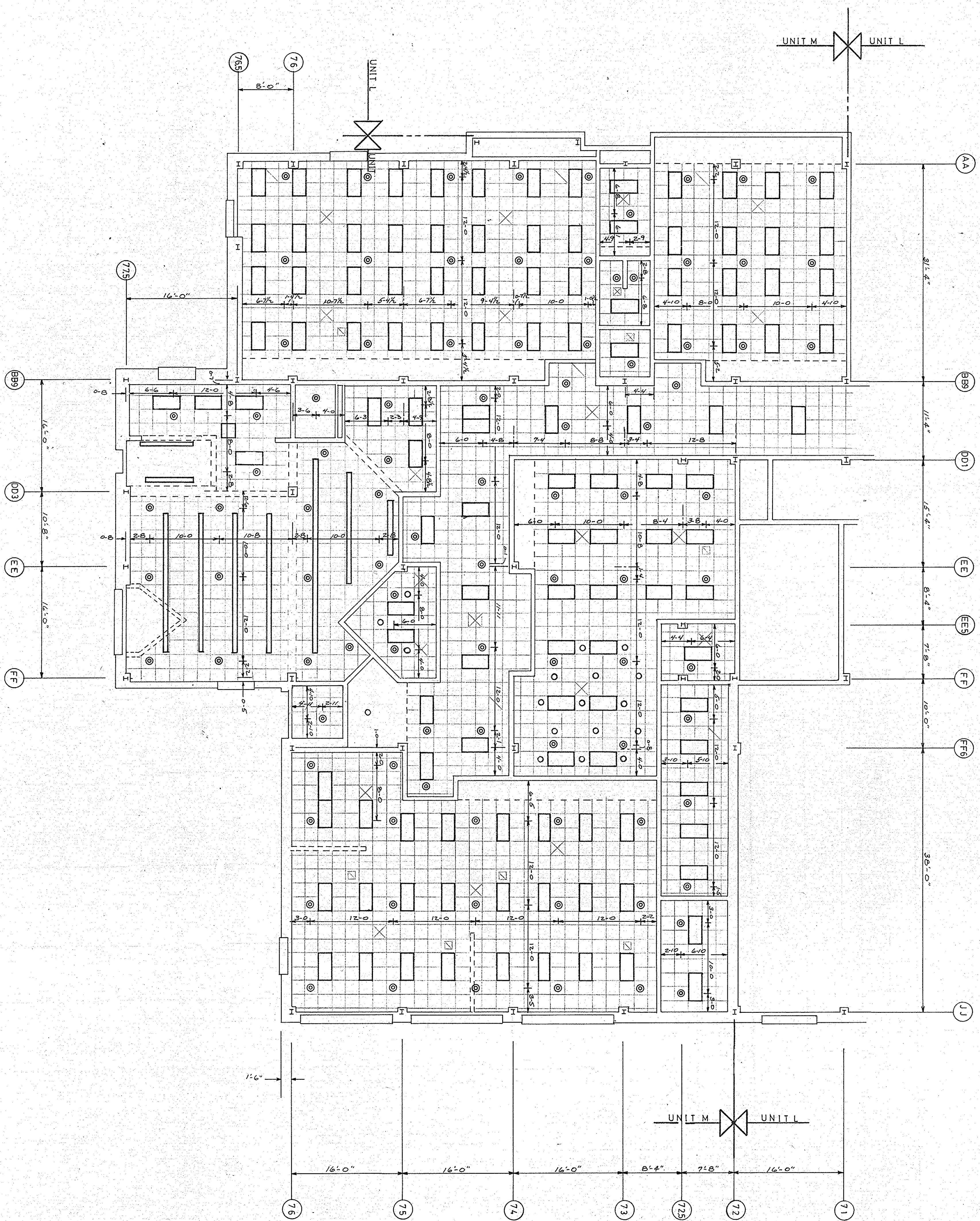
DAVID E. MOJANIE, P.E.
ARCHITECT
1000 N. 10TH ST.
OSCEOLA, INDIANA 46783
PHONE: (317) 302-1234
FAX: (317) 302-1235
E-MAIL: dmojanie@mojanie.com

THIS DRAWING PREPARED WITH A SPARK DESIGN INC. CAD SYSTEM

KEY PLAN



21 OF 21
EMPLOYEE OWNED AND OPERATED



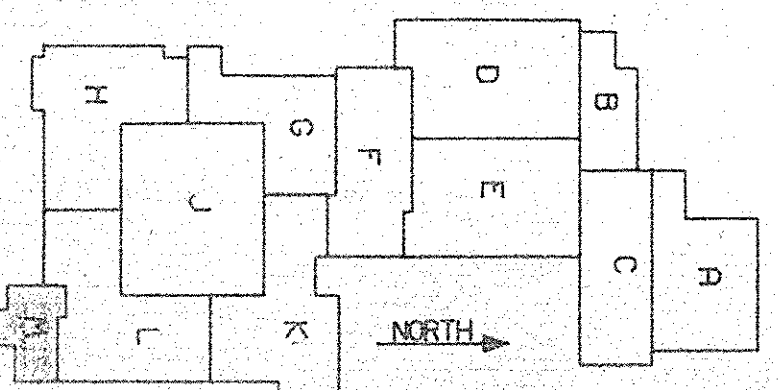
SPRINKLER LEGEND		RESPONSIBILITIES	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
○	SPRINKLER	○	STREET WATER CONNECTION
○	RELAYABLE MOD. 6-1/2" (1/2" x 1/2")	○	INTERMEDIATE WATER MAIN
○	RELAYABLE MOD. 6-1/2" (1/2" x 1/2")	○	EXTENDING (1/2" x 1/2")
○	RELAYABLE MOD. 6-1/2" (1/2" x 1/2")	○	BACKFILL (1/2" x 1/2")
○	RELAYABLE MOD. 6-1/2" (1/2" x 1/2")	○	WATER
○	RELAYABLE MOD. 6-1/2" (1/2" x 1/2")	○	TRAINING
○	RELAYABLE MOD. 6-1/2" (1/2" x 1/2")	○	QUIP CONTROL PROJECT
○	RELAYABLE MOD. 6-1/2" (1/2" x 1/2")	○	NO. DATE
○	RELAYABLE MOD. 6-1/2" (1/2" x 1/2")	○	REVISION
○	RELAYABLE MOD. 6-1/2" (1/2" x 1/2")	○	1
○	RELAYABLE MOD. 6-1/2" (1/2" x 1/2")	○	2
○	RELAYABLE MOD. 6-1/2" (1/2" x 1/2")	○	3
○	RELAYABLE MOD. 6-1/2" (1/2" x 1/2")	○	4
○	RELAYABLE MOD. 6-1/2" (1/2" x 1/2")	○	5

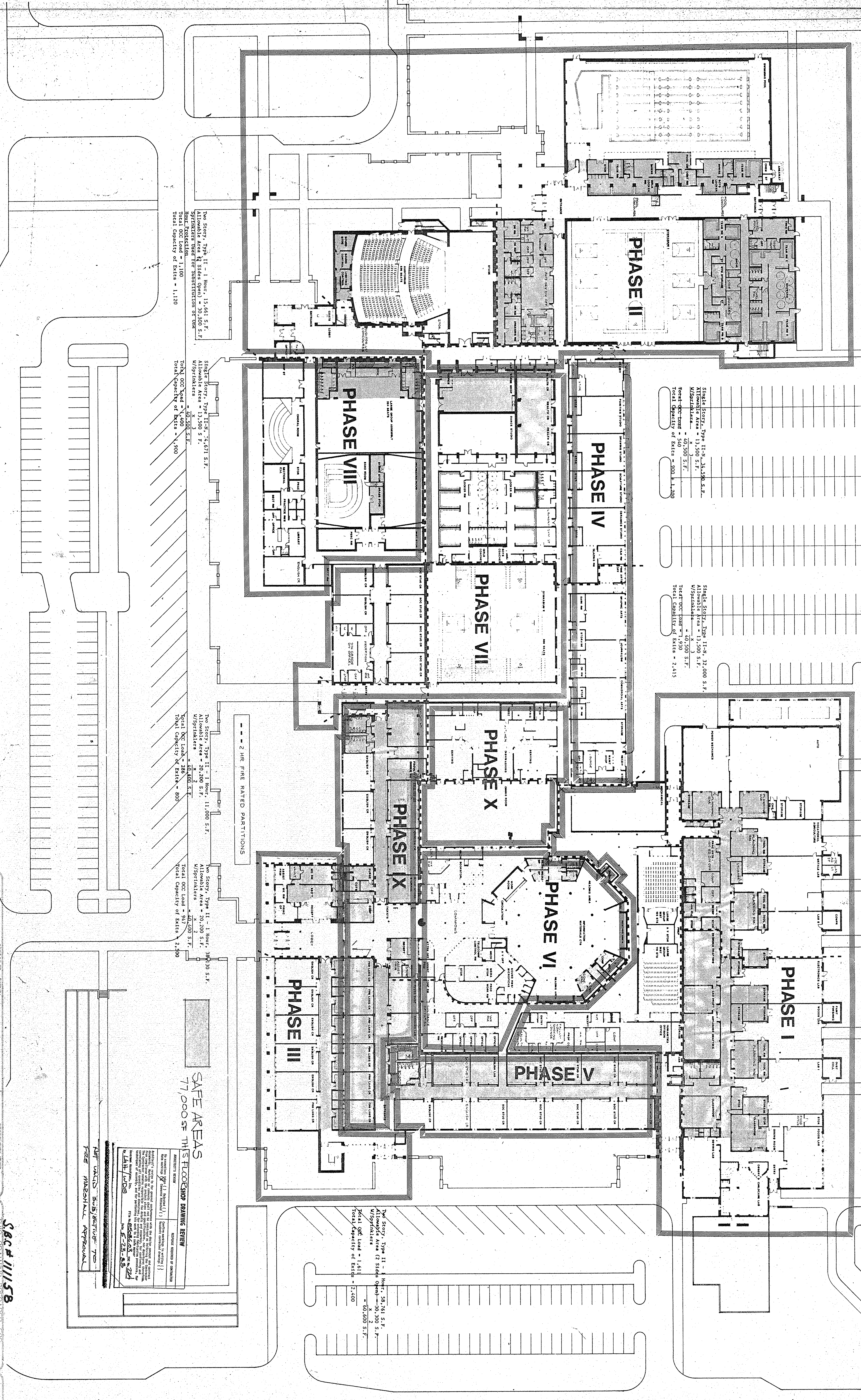
THIS DRAWING PREPARED FOR
OSCEOLA INDIANA
PENN HIGH SCHOOL
 FIRE PROTECTION
 UNIT M FIRST FLOOR REFLECTED CLO PLAN
 Scaled: 1/8" = 1'-0"
 Date: 7-28-87
 Drawn by: JERRY F. F. C.

DESIGN AND ENGINEERING
DAVID E. MCJANNET CO., INC.
 1000 W. 10TH ST.
 INDIANAPOLIS, IN 46204
 (317) 634-1111
 FAX (317) 634-1112

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41 OF





Two Story, Type II - 1 Hour, 54,806 S.F.
 Allowable Area (3 Sides Open) = 40,400 S.F.
 Total OCC Load = 5,123
 Total Capacity of Exits = 5,450
 = $\frac{80,800 \text{ S.F.}}{2}$

Two Story, Type II 1 Hour, 26,248 S.F.
 Allowable Area (2 Sides Open) = 30,300 S.F.
 Sprinklers Used for Substitution of One
 Hour Protection
 Total OCC Load = 183
 Total Capacity of Exits = 1,200

Two Story, Type II - 1 Hour, 26,944 S.F.
Allowable Area (2 Sides Open) = 30,300 S.F.
Sprinklers Used for Substitution of One
Hour Protection
Total OCC Load = 486
Total Capacity of Exits = 1,650

Single Story, Type II-N, 34,500 S.F.
 Allowable Area = 13,500 S.F.
 W/Splitters = $\frac{40,500 \text{ S.F.}}{3}$
 Total OCC Load = 540
 Total Capacity of Exits = 900 + 1,200

Single Story, Type II-N, 32,000 S.F.
 Allowable Area = 13,500 S.F.

$$\frac{W}{\text{Sprinkler}} \times \frac{3}{4} = 40,500 \text{ S.F.}$$
 Total OCC load = 1,930
 Total Capacity of Exit = 2,415

Two Story, Type II - 1	Hour, 56,761 S.F.
Allowable Area (2 Sides Open) -	10,300 S.F.
w/sprinklers	$\times \frac{1}{2}$
Total OGC Load =	60,600 S.F.
Total Capacity of Exits =	2,400

Two Story, Type II - 1 Hour, 15,661 S.F.
Allowable Area (2 Sides Open) = 30,300 S.F.
Sprinklers Used for Substitution of One
Hour Protection
Total OCC Load = 1,100
Total Capacity of Exits = 1,120

Single Story, Type II-N, 34,671 S.F.
 Allowable Area = 13,500 S.F.
 W/sprinklers x 3
 = 40,500 S.F.
 Total OCC load = 1,400
 Total Capacity of Exits = 1,900

Two Story, Type II - 1 Hour, 11,000 S.F.
 Allowable Area = 20,200 S.F.
 W/Sprinklers $\times \frac{2}{1}$
 = 40,400 S.F.
 Total Occ Load = 286
 Total Capacity of Exits = 800

Two Story, Type II - 1 Hour, 384 x 30 S.F.
 Allowable Area = 20,200 S.F.

$$\frac{w/\text{Sprinklers}}{x} = \frac{60,400 \text{ S.F.}}{2}$$
 Total OCC Load = 947
 Total Capacity of Exits = 2,500

SAFE AREAS
77,000 SF THIS FLOORSHOP DRAWING REVIEW

NOT VALID SUBJESTIVE YES
FIRE MARSHALL APPROVAL

Spec# 111158
THIS DRAWING PREPARED FOR
PENN HIGH SCHOOL

NOTES
PHASES 1,2, & 3 - NEW CONSTRUCTION
ALL OTHER PHASES - EXISTING

DATE 5/14/88	BY <i>MLC</i>
REVIEWED This data has been reviewed for conformance to the plans and specifications. IRMESCHER & SONS, INC. South Bend, IN	

DAVID E. MEDANIE, CO., INC.
10000 W. 10th Avenue
Westminster, Indiana 46080

Dealing has been returned for partial compliance with contract. Subcontractor or vendor is responsible for providing the necessary materials, processes, techniques of construction and compliance with design requirements.

☒ Approved

☐ Approved as Noted

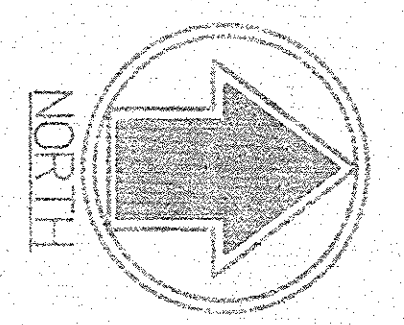
☐ Revised & Resubmitted

☐ Disapproved

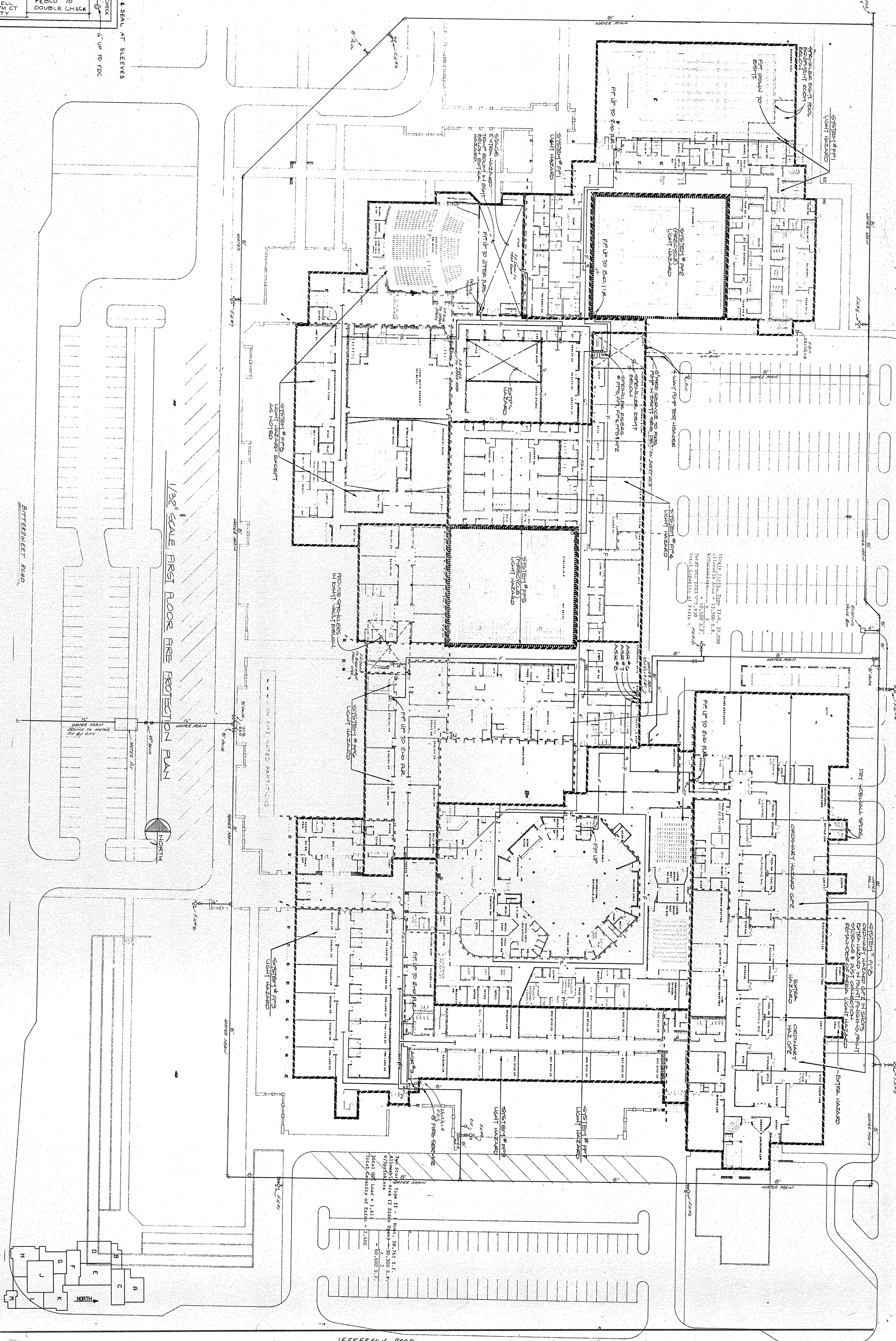
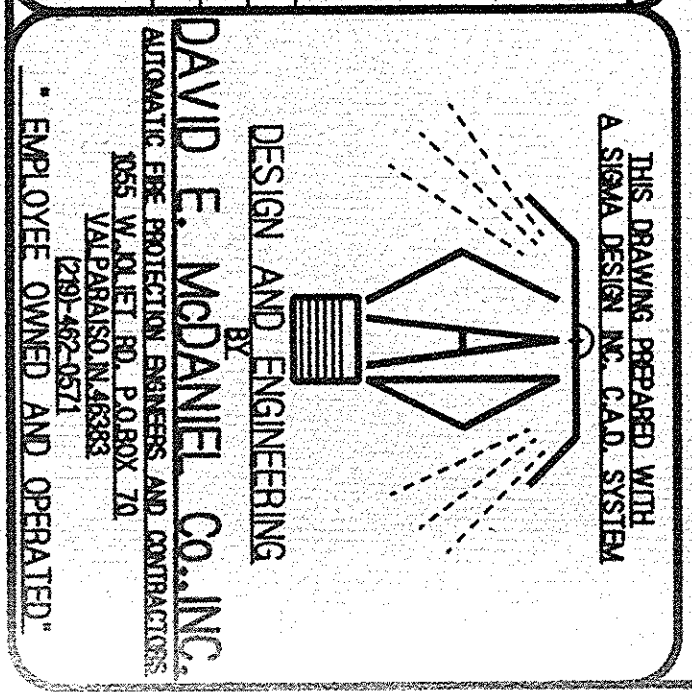
By George E. Mc

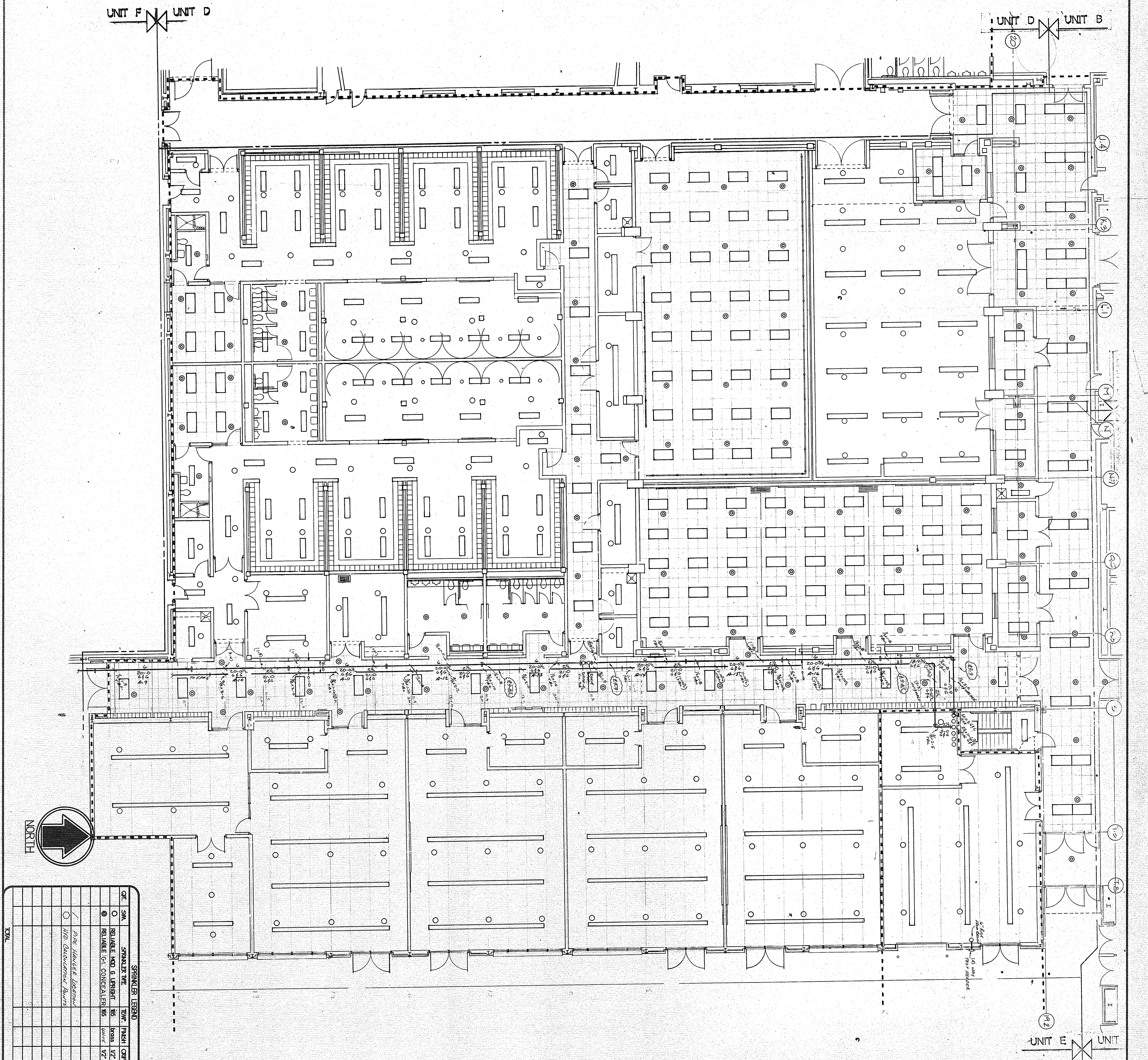
Date 4-1-88

Shop Drawing No. _____

[illegible]

DAVID C. MCINTIRE, AIA
DESIGN AND ENGINEERING
10000 E. 12TH AVE., SUITE 100
DENVER, CO 80231
303/751-1111
FAX 303/751-1112





SPRINKLER LEGEND									
SYMBOL	SPRINKLER TYPE	TYPE	FINISH	COEF.	TRD.	ESCH.	FINISH	ESCH.	FINISH
○	RELIEF & WIND & UPRIGHT	85	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
●	RELIEF & WIND & UPRIGHT	85	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
○	RELIEF & WIND & UPRIGHT	85	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
○	RELIEF & WIND & UPRIGHT	85	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
○	RELIEF & WIND & UPRIGHT	85	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
○	RELIEF & WIND & UPRIGHT	85	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
○	RELIEF & WIND & UPRIGHT	85	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
○	RELIEF & WIND & UPRIGHT	85	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
○	RELIEF & WIND & UPRIGHT	85	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

REVIEWED

This plan has been reviewed for conformance to the plans and specifications.

DATE 5/1/98

BY *PHC*

SPRINKLER & SONS, INC.

SPRINKLER & SONS, INC.

RESPONSIBILITIES

NO.	DATE	REVISION
1		SPRINKLER & SONS, INC.
2		SPRINKLER & SONS, INC.
3		SPRINKLER & SONS, INC.
4		SPRINKLER & SONS, INC.
5		SPRINKLER & SONS, INC.

OSCEOLA, INDIANA

FIRE PROTECTION

UNIT E FIRST FLOOR CEILING & PIPING PLAN

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

Sheet No. 4 of 4

DESIGN AND ENGINEERING

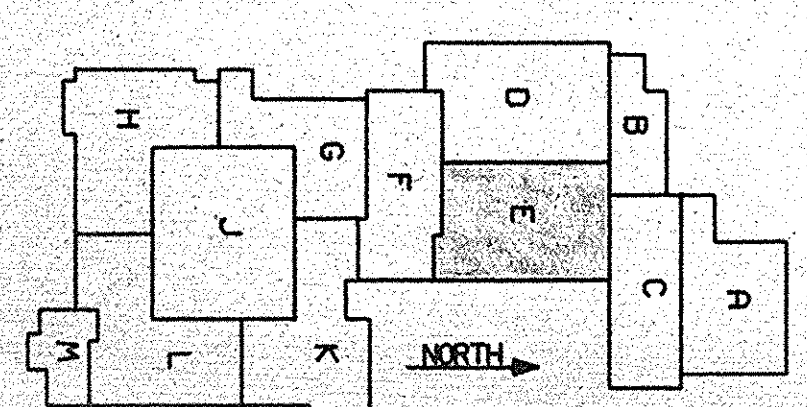
DAVID E. MCANINE CO., INC.

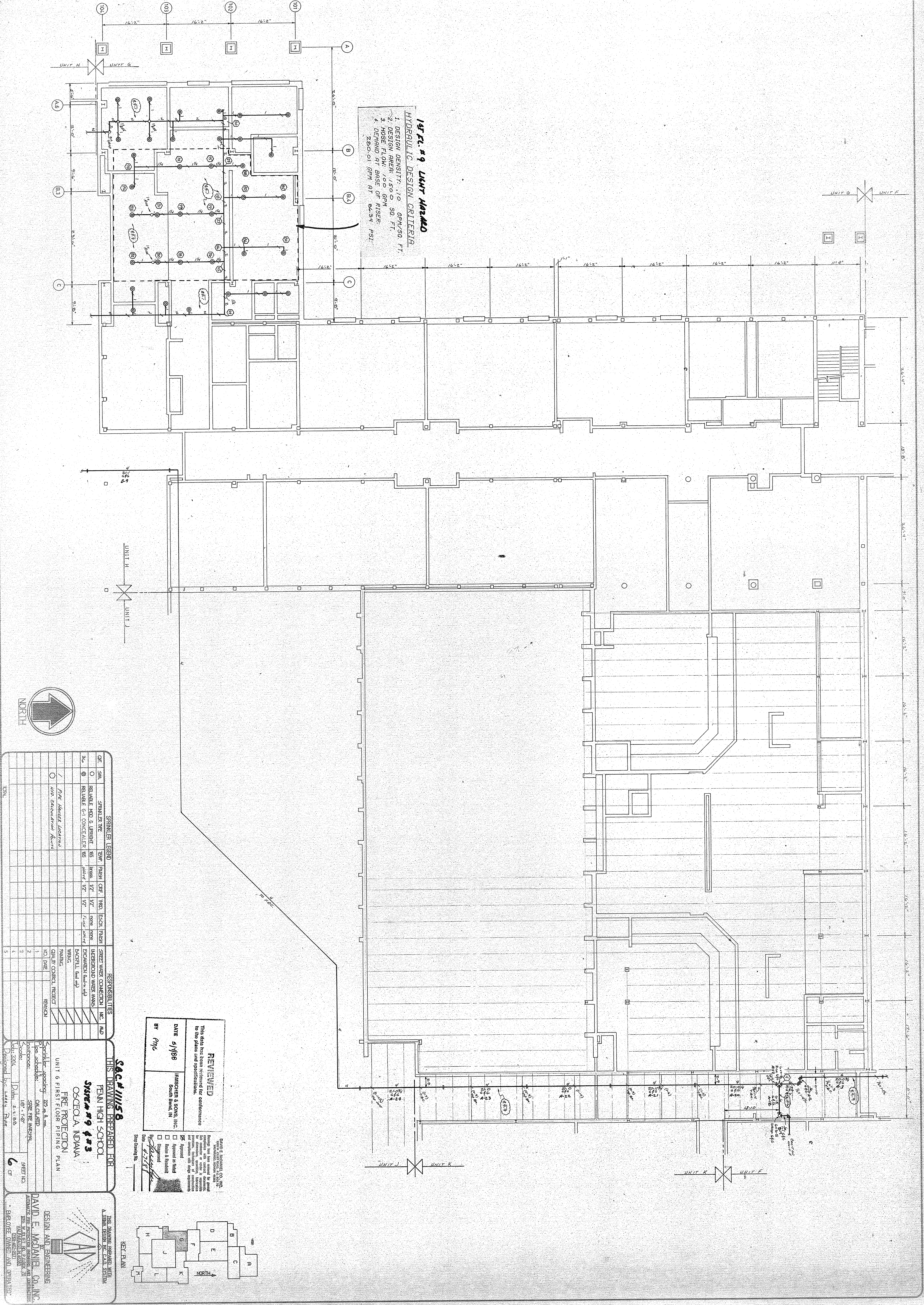
1000 W. MARKET ST., SUITE 200

INDIANAPOLIS, IN 46204

• EMPLOYER, OWNER AND OPERATOR •

DAVID E. MCANINE CO., INC.
1000 W. MARKET ST., SUITE 200
INDIANAPOLIS, IN 46204
• EMPLOYER, OWNER AND OPERATOR •





1ST FL. #9 LIGHT HAZARD
HYDRAULIC DESIGN CRITERIA
1. DESIGN DENSITY: 1.0 GPM/50 FT.
2. DESIGN AREA: 1500 SQ. FT.
3. HOSE FLOW: 100 GPM
4. DEMAND AT BASE OF RISER:
260.01 GPM AT 64.34 PSI.

SPRINKLER LEGEND

SYMBOL	SPRINKLER TYPE	TYPE	FINISH	ORF.	TRIG.	ESCH.	FINISH
○	RELIEF, MOD. & L.BRIGHT	55	BRASS	1/2"	1/2"	1/2"	1/2"
○	RELIEF, MOD. & L.BRIGHT	55	BRASS	1/2"	1/2"	1/2"	1/2"
○	RELIEF, MOD. & L.BRIGHT	55	BRASS	1/2"	1/2"	1/2"	1/2"

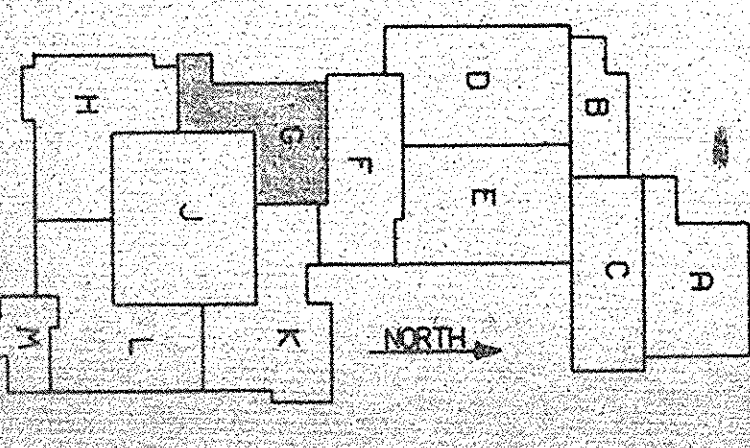
RESPONSIBILITIES

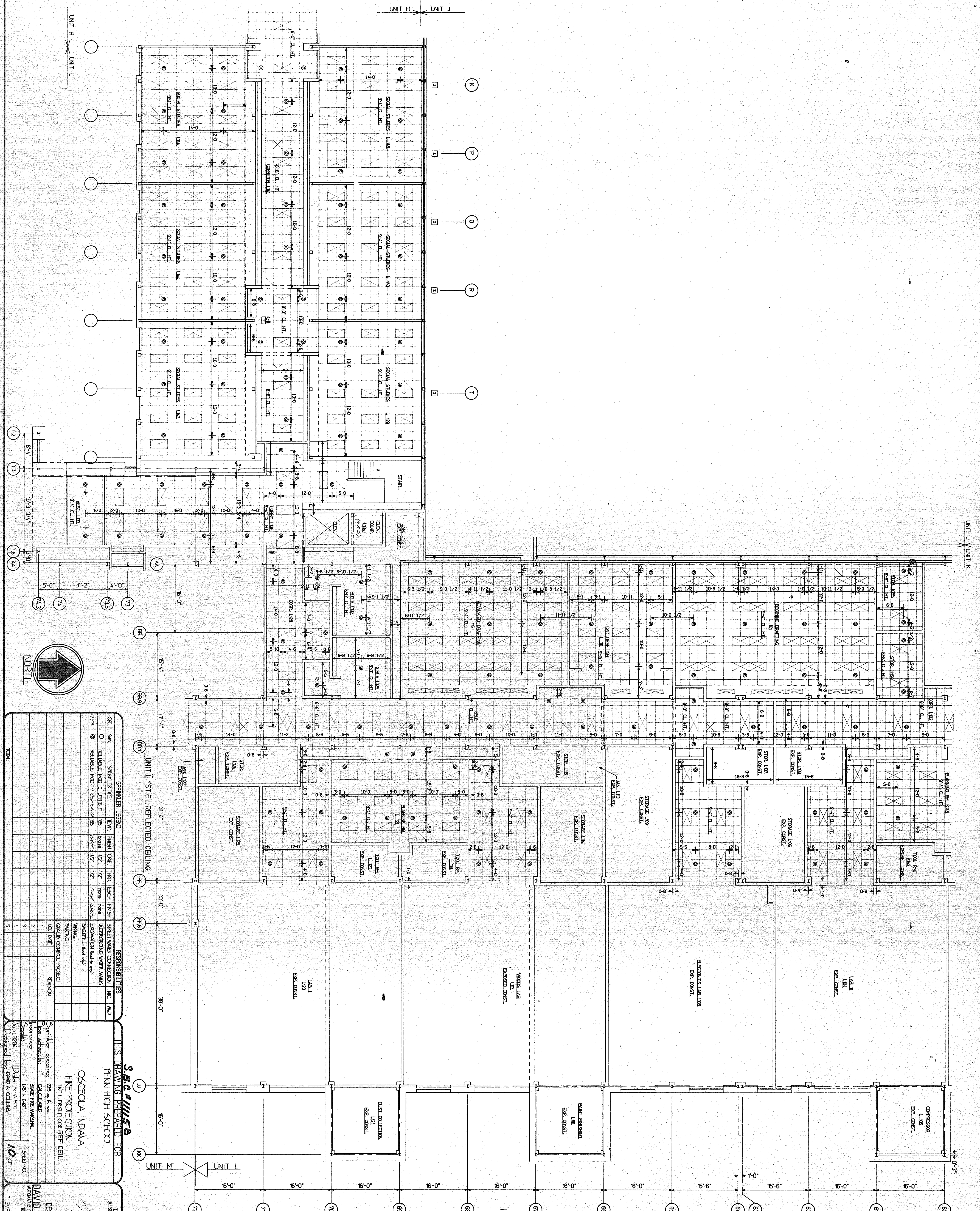
NO.	DATE	REASON
1	10/1/88	SPRINKLER PIPING
2	10/1/88	SPRINKLER PIPING
3	10/1/88	SPRINKLER PIPING
4	10/1/88	SPRINKLER PIPING
5	10/1/88	SPRINKLER PIPING

REVIEWED
This data has been reviewed for conformance to the plans and specifications.
DATE: 6/1/88
BY: PNC
REVISOR: SOUTHERN & SONS, INC.
South Bend, IN

THIS DRAWING PREPARED FOR:
OSCEOLA, INDIANA
OSCEOLA HIGH SCHOOL
FIRE PROTECTION
QUANTITY CONTROL PIPING PLAN
SHEET NO. 6 OF 6

DAVID E. MOJANIE, CO., INC.
DESIGN AND ENGINEERING
1001 E. 10TH ST.
OSCEOLA, IN 46781
PHONE: 219-685-1100
FAX: 219-685-1101





SPRINKLER LEGEND		RESPONSIBILITIES	
Q1	5M	SPRINKLER TYPE	TYPE
Q2	5M	FINISH	FINISH
Q3	5M	THRO	THRO
Q4	5M	FINISH	FINISH
Q5	5M	FINISH	FINISH
Q6	5M	FINISH	FINISH
Q7	5M	FINISH	FINISH
Q8	5M	FINISH	FINISH
Q9	5M	FINISH	FINISH
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Q19	5M	FINISH	FINISH
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Q97	5M	FINISH	FINISH
Q98	5M	FINISH	FINISH
Q99	5M	FINISH	FINISH
Q100	5M	FINISH	FINISH

THIS DRAWING PREPARED FOR
PENNA HIGH SCHOOL

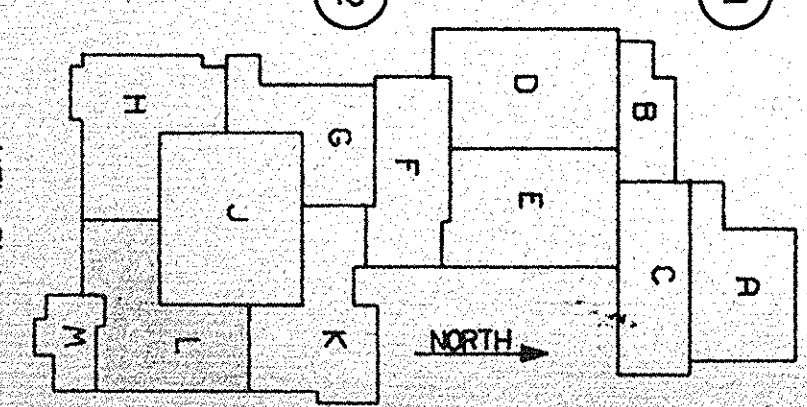
OSCEOLA, INDIANA
FIRE PROTECTION
UNIT 1 FIRST FLOOR REF. CEIL.

DESIGNED BY: DAVID A. COLLINS
DATE: 12-1-87

DAVID E. MORGAN CO., INC.
A SBA DESIGN INC. C.A.D. SYSTEM

DESIGN AND ENGINEERING
DAVID E. MORGAN CO., INC.
355 W. ALLEN ST., SUITE 200
MADISON, IN 47202

10

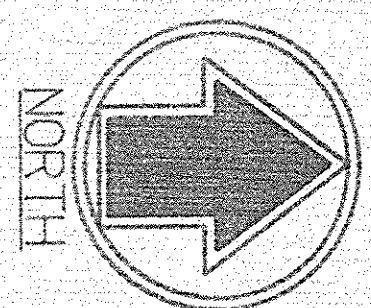


DAVID E. MORGAN CO., INC.
355 W. ALLEN ST., SUITE 200
MADISON, IN 47202
477-1111

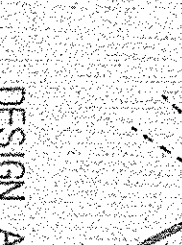
By: *[Signature]*
Date: 4/7/88

Sheep Drawing No.:

REVIEWED	
This data has been reviewed for conformance to the plans and specifications.	
DATE	5/4/88
BY	DMC
IRMSCHER & SONS, INC. South Bend, IN	



THE DRYAN BREWERY WITH
A SIBRA BEER IN COLD SYSTEM



DESIGN AND ENGINEERING

DAVID E. MC DANIEL, CO., INC.

ALUMINUM PIPE, PIPING, FITTINGS, AND CONTRACTORS

1555 W. 10TH ST., CHICAGO, IL 60607

TEL: 606-46-5100

FAX: 606-46-5101

© 1991 DRYAN BREWERY

F. DAVID E. MCNAMARE CO., INC.
10555 JACUIT ROAD, P.O. BOX 70
WALSHAMPO, INDIANA 46383

Designate how you have released for general
compliance with contract documents:
Sub contractor or vendor is responsible
for distasteful, questionable, fabrication
processes, techniques of construction
and compliance with design requirements

☒ Approved

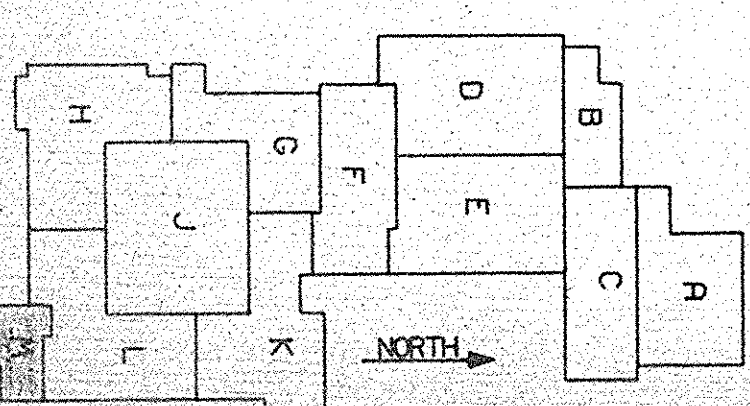
☐ Approved as Noted

☐ Revise & Resubmit

☐ Disapproved

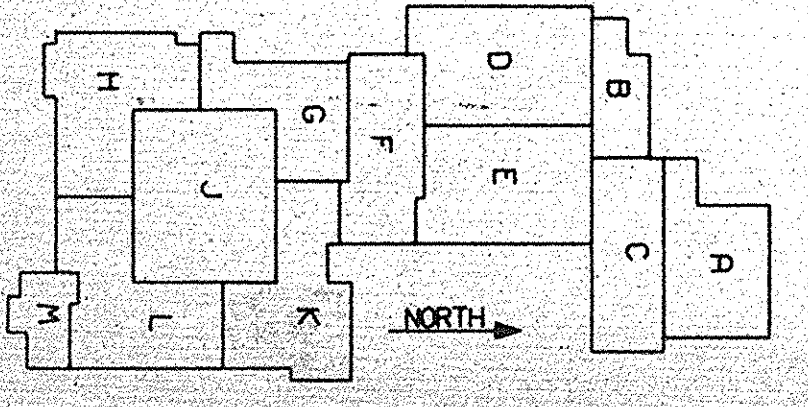
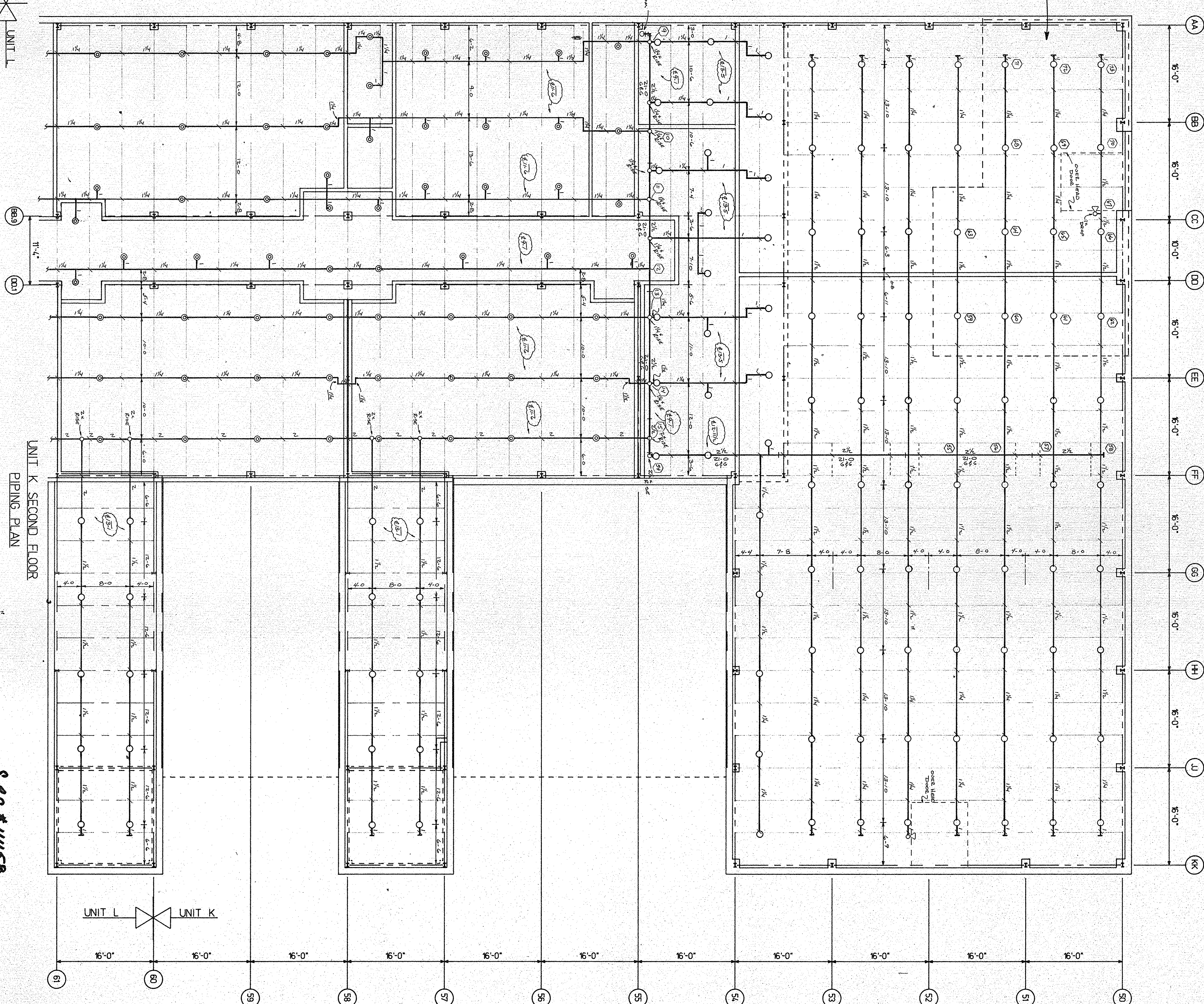
By: Michael J. McNamee

Date: 4-17-88



HYDRAULIC DESIGN CRITERIA

1. DESIGN DENSITY: .19 GPM/SQ. FT.
2. DESIGN AREA: 1500 SQ. FT.
3. HOSE FLOW: 250 GPM
4. DEMAND AT BASE OF RISER:
368.04 GPM AT 103.91 PSI



SPRINKLER LEGEND										RESPONSIBILITIES	
QTY	SYM.	SYMBOLS & UNIT	TYPE	FRESH	CO ₂	THD.	ESCH.	FRESH	SHEET W/OUT CONNECTION	INC.	AW
1.0	○	RELIABLE AND 0-1 UPRIGHT	85	brass	1/2"	1/2"	room	room	UPPER/2ND W/OUT MAINS		
4.5	△	RELIABLE AND 0-1 CODE/CLASS 855	855	brass	1/2"	1/2"	freshly white	freshly white	EXCAVATION (land only)		
2	◇	RELIABLE AND 0-1 SIDEWALK	145	brass	1/2"	1/2"		brass	EXCAVATION (land only)		
1	○	Pipe Hangers, Lateral							PAINING		
	○	SPD CALCULATED BLANKS							QUALITY CONTROL PROJECT		
									NO PAGE		REVISION

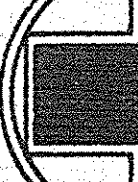
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999, 1000	4	○	SPRINKLER SCHEDULING: 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416
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REVIEWED	
This data has been reviewed for conformance to the plans and specifications.	
DATE 5/1/88	INSINGER & ECKS, INC. Scott Bond, IN
BY pmc	

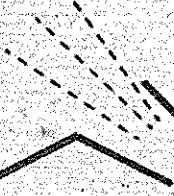
☐ Approved for construction
☐ Approved as noted
☐ Reuse & Rebuild
☐ Disapproved

By: *David L. Smith*
 Date: 4-17-88

Special Drawing No. _____



NORTH



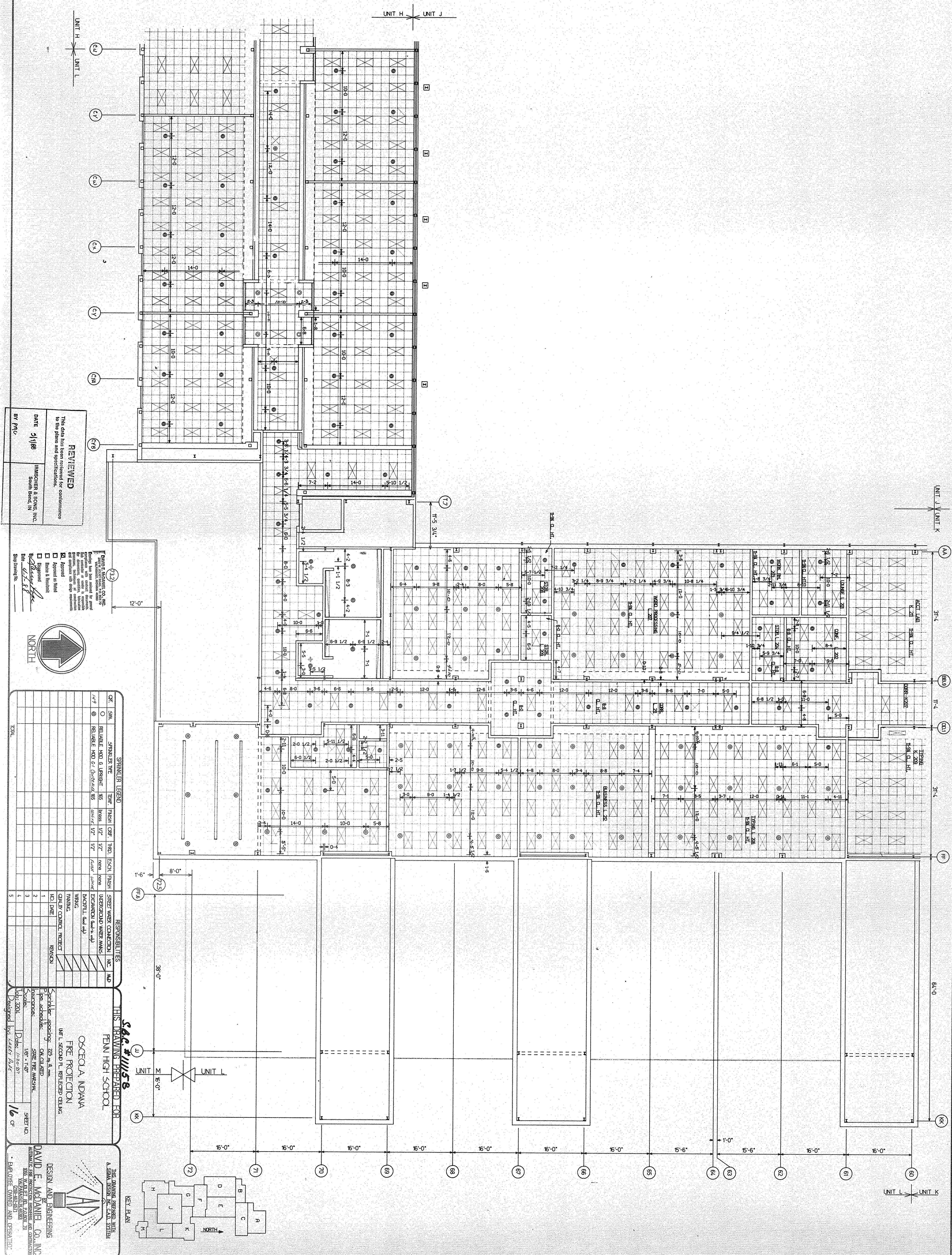
DESIGN AND ENGINEERING

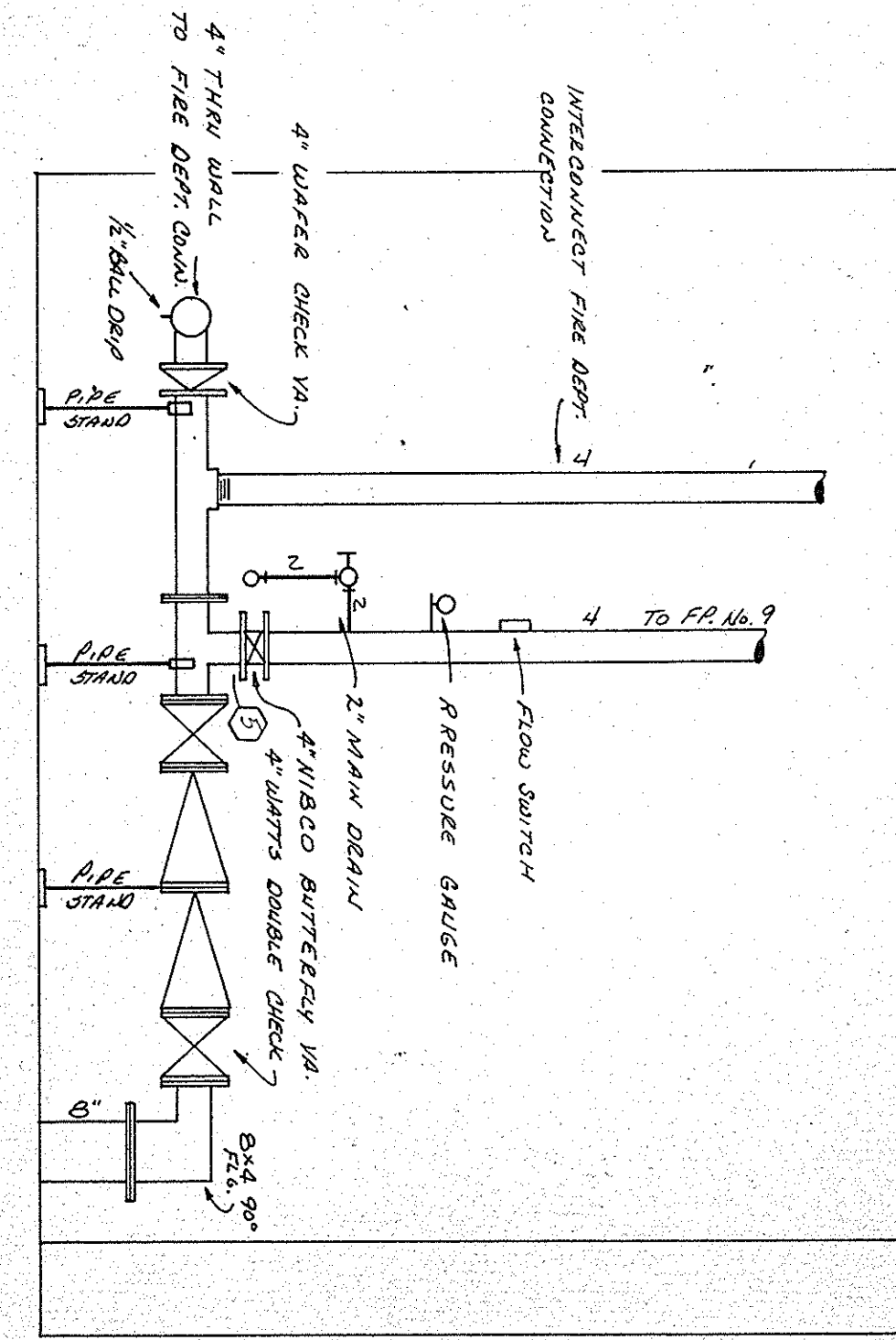
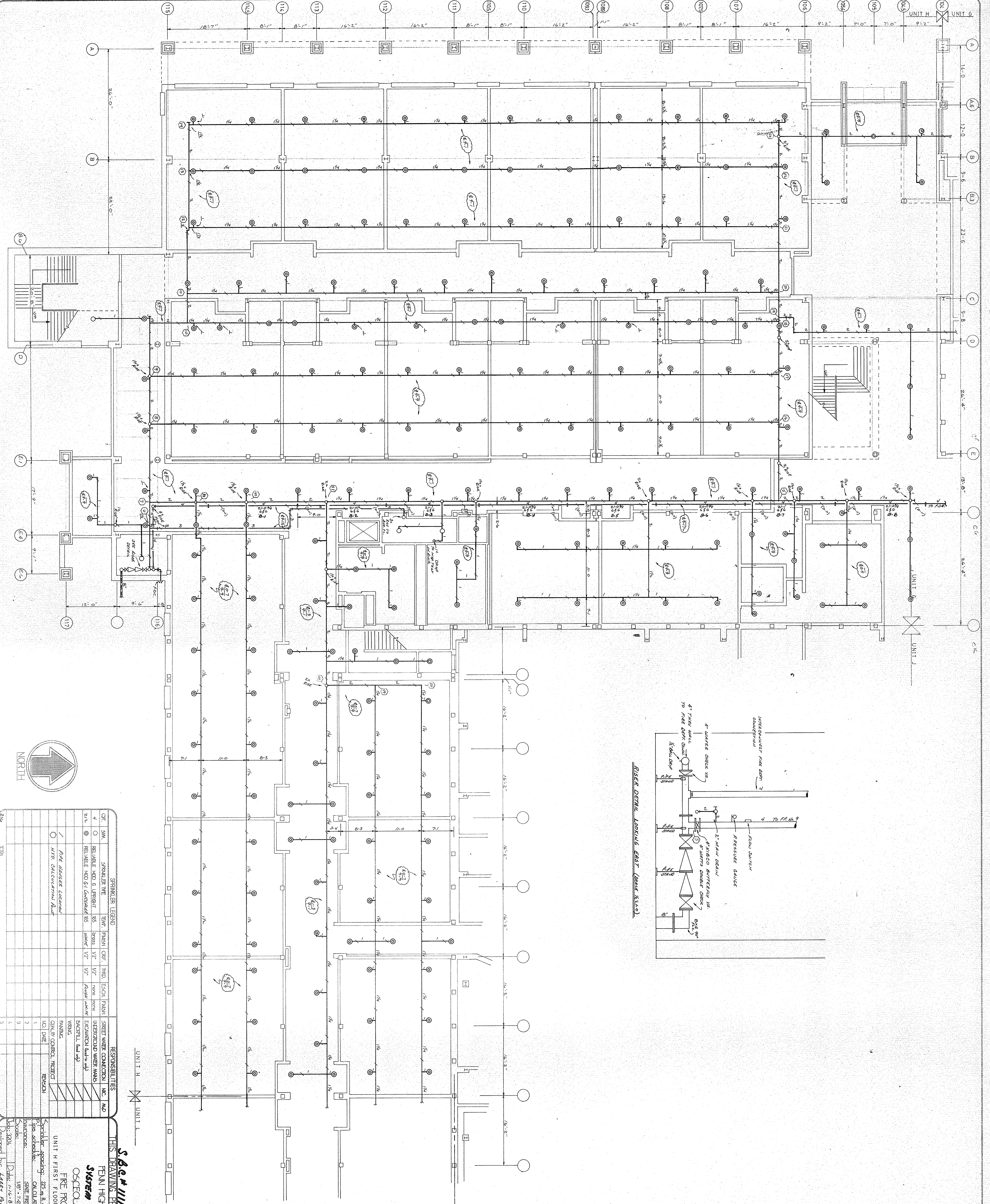
DAVID E. Mc DANIEL, CO., INC.

AUTOMATIC PER PROTECTION SENSORS AND CONSTRUCTORS

105 W. 15th STREET
MILWAUKEE, WISCONSIN
426-462-5621

EMPLOYE OWNED AND OPERATED





SPRINKLER LEGEND

SYM.	SPRINKLER TYPE	TRIP	FRUIT	COF.	TRIP	ESCH	FRUIT	RESP.
4	RELIEF AND SPRINKLER	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
5	RELIEF AND SPRINKLER	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

RESPONSIBILITIES

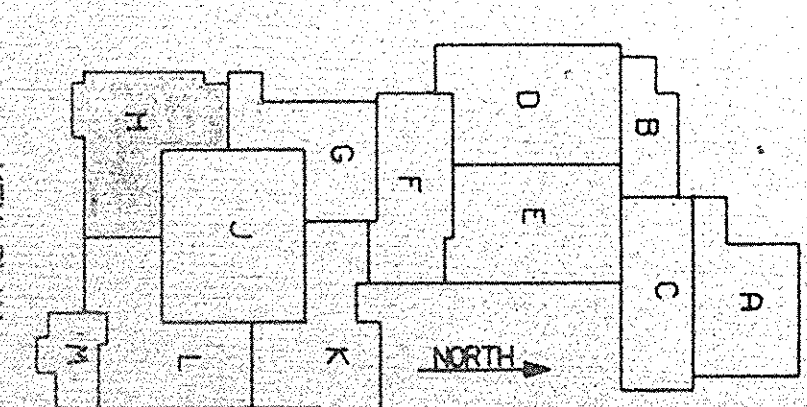
NO.	DATE	REVISION	BY	CHKD.
1				
2				
3				
4				
5				

THIS DRAWING PREPARED FOR
PENN HIGH SCHOOL
OSCEOLA, INDIANA
FIRE PROTECTION
UNIT H FIRST FLOOR PIPING PLAN

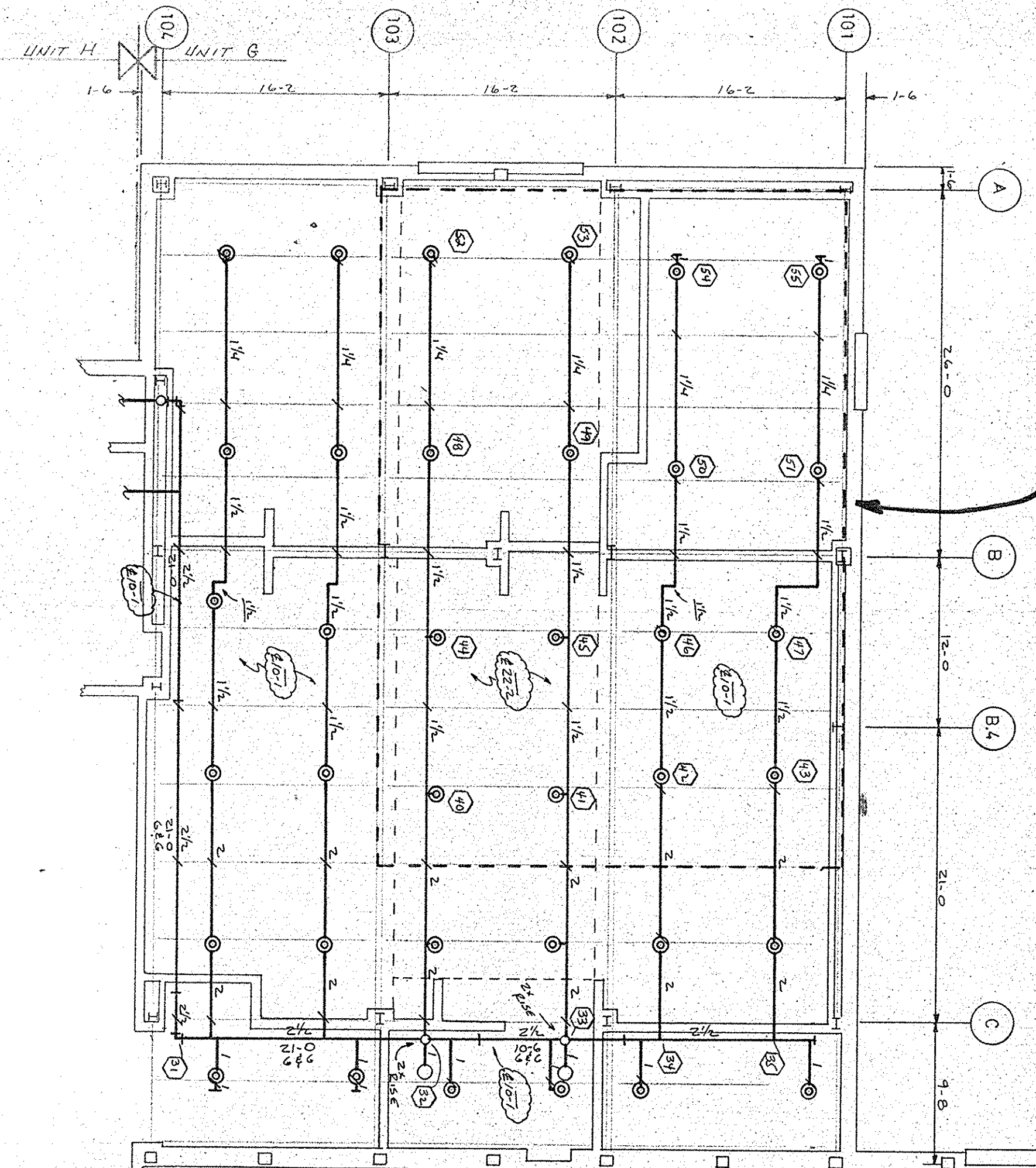
Scale: 1/8" = 1'-0"
Date: 7/16/86
SHEET NO. 17 OF 17

DESIGN AND ENGINEERING
DAVID E. MCDONALD CO., INC.
A SINKA SYSTEM INC. CAL. SYSTEM
VALVERDE, ARIZONA

REVIEWED
This data has been reviewed for conformance to the plans and specifications.
DATE: 9/1/86
BY: PNC
IMMERSCHER & SONS, INC.
South Bend, IN



DATE: 7/16/86
BY: [Signature]
CHKD.: [Signature]
Scale: 1/8" = 1'-0"
Date: 7/16/86
SHEET NO. 17 OF 17



SYSTEM #9 2.F (LIGHT HAZARD)
HYDRAULIC DESIGN CRITERIA
 1. DESIGN DENSITY: .19 GPM/50 FT
 2. DESIGN AREA: 1500 SQ. FT.
 3. HOSE FLOW: 100 GPM
 4. DEMAND AT BASE OF RISER:
 255.84 GPM AT 57.60 PSI.

UNIT 6 UNIT F

UNIT H

1. Note: Check Location
 2. Note: Check Location

REVIEWED	
This set has been reviewed for conformance to the plans and specifications.	
DATE 5/1/98	REVIEWER RUSCHER & SONS, INC. South Bend, IN

UNIT 6 SECOND FLOOR PIPING PLAN

DATE: 5/1/98
 BY: RUSCHER & SONS, INC.
 CHECKED: RUSCHER & SONS, INC.
 APPROVED: RUSCHER & SONS, INC.

