ELM ROAD ELEMENTARY SCHOOL

PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

Elm Road School

ANTHOWEY
HATES, INC.
CTS / ENGINEERS / CONSULTANTS

ARCHITECTURAL ABBREVIATIONS

@	AT	FD	FLOOR DRAIN	PA	PUBLIC ADDRESS
A/C	AIR CONDITIONING	FHCAB	FIRE HOSE CABINET	PL OR ℄	PLATE/PROPERTY LINE
AC	ALTERNATING CURRENT	FIN	FINISH	PLAS	PLASTER
ACT	ACOUSTICAL CEILING TILE	FIN FL/ FF	FINISH FLOOR	PLASLAM	PLASTIC LAMINATE
AD	AREA DRAIN			PLG	PLUMBING
AFF	ABOVE FINISHED FLOOR	FL	FLOOR	PREFAB	PREFABRICATED
ALT	ALTERNATIVE	FSSK	FLOOR SERVICE SINK	PS	PROJECTION SCREEN
ALUM	ALUMINUM	FT(')	FEET	PSS	PENCIL SHARPENER SUPPORT
AP	ACCESS PANEL	FTG	FOOTING	PVC	POLYVINYL CHLORIDE
APPROX	APPROXIMATE	FX	FIRE EXTINGUISHER	PWD	PLYWOOD
ARCH	ARCHITECT(URAL)	FX-CAB	FIRE EXTINGUISHER CABINET		
AWT	ACOUSTICAL WALL TREATMENT				
				QT	QUARRY TILE
		GA	GAUGE		
		GAL	GALLON		
		GALV	GALVANIZED	R	RADIUS/RISER
BLDG	BUILDING	GB	GRAB BAR	RA	RETURN AIR
BM	BENCH MARK/BEAM	GC	GENERAL CONTRACTOR	RB	RESILIENT BASE
BOS	BOTTOM OF STEEL	GL	GLASS	RCP	REINFORCED CONCRETE PIPE
BRG	BEARING	GPM	GALLONS PER MINUTE	RD	ROOF DRAIN
BRK	BRICK	GSFT	GLAZED STRUCTURAL FACING TILE	REF	REFERENCE
BTU	BRITISH THERMAL UNIT	GT	GLAZED TILE	REFR	REFRIGERATOR
BUR	BUILT-UP ROOF	GWB	GYPSUM WALLBOARD	REINF	REINFORCING
				REV	REVISION(S)
				RH	RIGHT HAND
		HB	HOSE BIBB	RM	ROOM
		HDWR	HARDWARE	RO	ROUGH OPENING
CAB	CABINET	HM	HOLLOW METAL	RVB	RESILIENT VENTED BASE
CAR	CARPET	HORIZ	HORIZONTAL	R/W	RIGHT-OF-WAY
CB	CHALKBOARD/CATCH BASIN	HP	HORSEPOWER		
CFM	CUBIC FEET PER MINUTE	HT	HEIGHT		
CH	CABINET HEATER	HTG	HEATING	S	SOUTH
CI	CAST IRON	HVAC	HEATING/VENTILATING/ AIR CONDITIONING	SA	SUPPLY AIR
CJ	CONTROL JOINT			SCH	SCHEDULE
CL/℄	CENTERLINE	HWY	HIGHWAY	SD	STORM DRAIN/SMOKE DETECTOR
CLG	CEILING			SECT	SECTION
CMP	CORRUGATED METAL PIPE			SHT	SHEET
CMT	CERAMIC MOSAIC TILE	ID	INSIDE DIAMETER	SIM	SIMILAR
CMU	CONCRETE MASONRY UNIT	IN(")	INCH	SLV	SHORT LEG VERTICAL
CO	CLEANOUT	INCL	INCLUDE(D), (ING)	SP	SPACES
COL	COLUMN	INSUL	INSULATION/INSULATE	SPEC(S)	SPECIFICATION(S)
CONC	CONCRETE	INT	INTERIOR	SPKR	SPEAKER
CONST	CONSTRUCTION	INV	INVERT	SQ	SQUARE
CONT	CONTINUOUS/CONTINUE			SS	STAINLESS STEEL
CONTR	CONTRACTOR			STL	STEEL
CORP	CORPORATION	JB	JOIST BEARING	STO	STORAGE
CORR	CORRIDOR/CORRUGATED	JC	JANITOR'S CLOSET	STRUCT	STRUCTURAL
CT	CERAMIC TILE			SUSP	SUSPENDED
CTR	CENTER	KIT	KITCHEN	SYM	SYMMETRY(ICAL)
CU FT	CUBIC FEET	KPL	KICKPLATE	SYN	SYNTHETIC
CU IN	CUBIC INCH				
CU YD	CUBIC YARD				
CW	COLD WATER	L	LENGTH/LONG	T	TREAD
CWF	CEMENTITIOUS WOOD FIBER	LAB	LABORATORY	T&G	TONGUE & GROOVE
		LAM	LAMINATE(D)	TA	TOILET ACCESSORY(IES)
		LAV	LAVATORY	TB	TACKBOARD
		LB	POUND	TEL	TELEPHONE
		LH	LEFT HAND	TERR	TERRAZZO
d	PENNY (NAILS, ETC.)	LL	LIVE LOAD	TOC	TOP OF CONCRETE
D	DEPTH/DEEP	LLV	LONG LEG VERTICAL	TOF	TOP OF FOOTING
(0)	DEGREE	LVR	LOUVER	TOM	TOP OF MASONRY
DC	DIRECT CURRENT/DISPLAY CASE			TOS	TOP OF STEEL
DEPT	DEPARTMENT			TRANS	TRANSFORMER
DET/DEL	DETAIL	M	METER/THOUSAND	TYP	TYPICAL
DF	DRINKING FOUNTAIN	MAS	MASONRY		
DIA	DIAMETER	MAT	MATERIAL		
DIM	DIMENSION	MAX	MAXIMUM	UC	UNDERCUT
DIV	DIVISION	MB	MASONRY BEARING	UNO	UNLESS NOTED OTHERWISE
DL	DEAD LOAD	MECH	MECHANICAL	UV	UNIT VENTILATOR
DN	DOWN	MEZZ	MEZZANINE	UR	URINAL
DRWG	DRAWING	MFG	MANUFACTURING		
DS	DOWNSPOUT	MFR	MANUFACTURER		
DT	DRAPERY TRACK	MH	MANHOLE	VAT	VINYL ASBESTOS TILE
DWC	DRINKING WATER COOLER	MIN	MINIMUM	VERT	VERTICAL
		MISC	MISCELLANEOUS	VIF	VERIFY IN FIELD
		MM	MILLIMETER	VIT	VITREOUS
		MO	MASONRY OPENING	VOL	VOLUME
		MTL	METAL	VT	VINYL TILE
E	EAST				
EA	EACH				
EF	EACH FACE	N	NORTH	W	WEST/WIDE/WIDTH
EJ	EXPANSION JOINT	NIC	NOT IN CONTRACT	W/	WITH
ELEC	ELECTRIC	NO	NUMBER	W/O	WITHOUT
ELEV	ELEVATION/ELEVATOR	NOM	NOMINAL	WB	WOOD BASE
ENGR	ENGINEER	NTS	NOT TO SCALE	WC	WATER CLOSET
EP	ELECTRICAL PANELBOARD			WD	WOOD
EQUIP	EQUIPMENT			WH	WATER HEATER
ESR	ELASTIC SHEET ROOFING	OC	ON CENTER	WPT	WORKING POINT
EW	EACH WAY	OD	OUTSIDE DIAMETER	WSSK	WALL SERVICE SINK
EWFS	EXTERIOR WALL FINISH SYSTEM	OFF	OFFICE	WWF	WELDED WIRE FABRIC
EXH	EXHAUST	OPNG	OPENING		
EXIST	EXISTING	OPP	OPPOSITE		
EXP	EXPANSION	OW	OPERABLE WALL		
EXT	EXTERIOR/EXTENSION	OZ	OUNCE	YD	YARD/YARD DRAIN

ARCHITECTURAL MATERIALS SYMBOL LEGEND

- ASPHALT
- EARTH
- GRAVEL OR STONE
- SAND, GROUT, PLASTER OR GWB
- CONCRETE
- TERRAZZO
- CUT STONE
- RUBBLE
- MARBLE
- SLATE
- PRECAST CONCRETE
- FACE BRICK
- FIRE BRICK
- GLAZED BRICK
- CONCRETE MASONRY UNIT (PLAN)
- CONCRETE MASONRY UNIT (CORED, IN SECTION)
- CONCRETE MASONRY UNIT (SOLID, IN SECTION)
- SPRAY-ON INSULATION OR FIRE PROTECTION
- WIRE FENCE OR PARTITION
- CORRUGATED METAL FORMING
- METAL ROOF DECK
- REINFORCING BARS
- METAL (IN SECTION)
- METAL SHAPES
- WWF IN CONCRETE SLAB
- LAMINATED WOOD BEAM (SMALL SCALE, SECTION)
- BATT INSULATION
- RIGID INSULATION
- ROUGH WOOD
- FINISH WOOD
- WOOD OTHER THAN NOMINAL
- PLYWOOD
- GYPSUM WALLBOARD (LARGE SCALE)
- STUD WALL
- SOLID PANEL FOLDING PARTITION OR OPERABLE WALL
- FABRIC ACCORDION FOLDING PARTITION
- ACOUSTIC TILE CEILING
- CARPET
- CERAMIC TILE, QUARRY TILE OR STRUCTURAL GLAZED TILE (LARGE SCALE)
- LIGHTWEIGHT INSULATING CONCRETE

ARCHITECTURAL DRAWING SYMBOLS LEGEND

- LEVEL LINE
- TEST BORING & NO.
- EXISTING CONTOUR
- NEW CONTOUR
- EXISTING POINT ELEVATION
- NEW POINT ELEVATION
- WINDOW TYPE
- DOOR NUMBER
- STRUCTURAL GRID REFERENCE
- CASEWORK NUMBER
- EQUIPMENT NUMBER
- LOCKER TYPE
- DETAIL REFERENCE
- ROOM NO., SEE SCHEDULE FOR ROOM AREA & CEILING HEIGHT
- WALL OR DETAIL SECTION
- BUILDING SECTION
- DETAIL OR SECTION TITLE

ELM ROAD ELEMENTARY SCHOOL

PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

BOARD OF SCHOOL TRUSTEES

KENNETH BICKEL	PRESIDENT
GERALD ASH	VICE PRESIDENT
LOREN KLINE	SECRETARY
NANCY ROCKWELL	MEMBER
RONALD NICODEMUS	MEMBER
A. DEAN SPEICHER	SUPERINTENDENT

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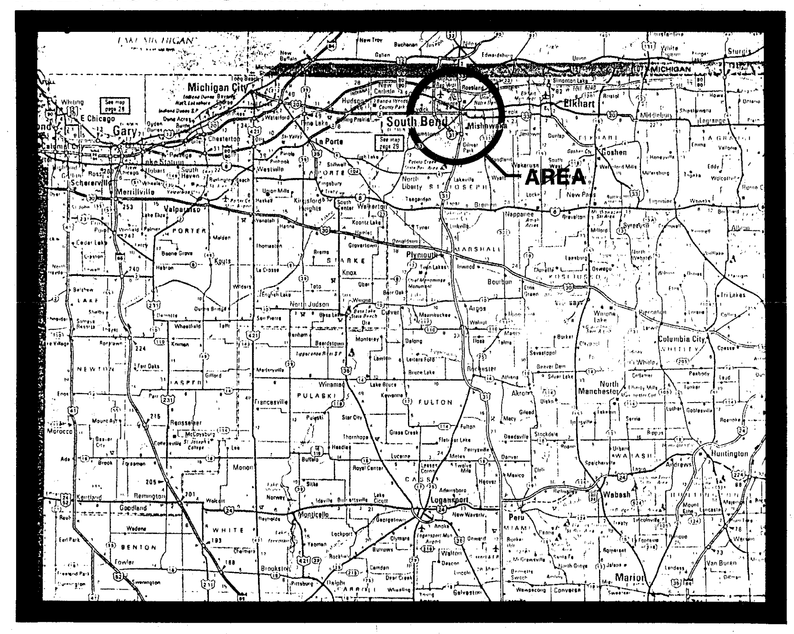
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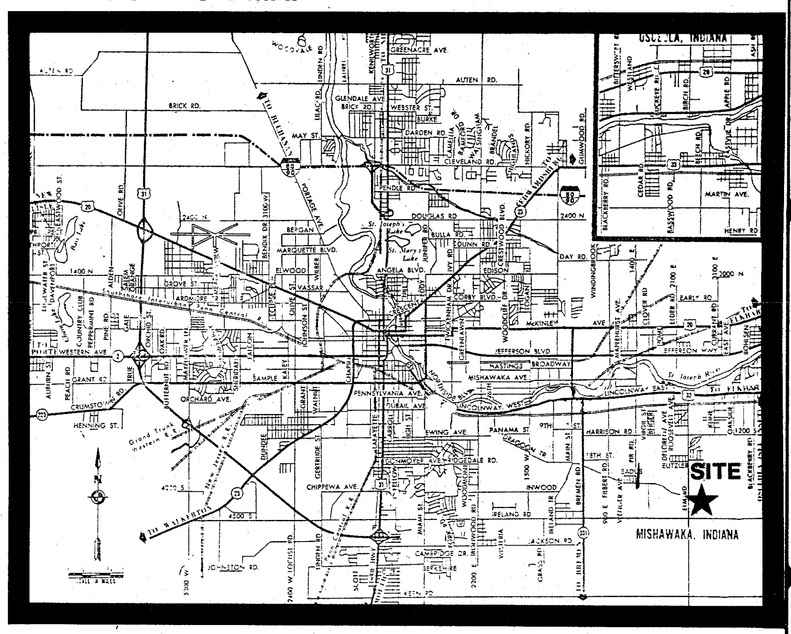
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AREA LOCATION MAP



SITE LOCATION MAP



CONSTRUCTION MANAGER

SOLLITT CONSTRUCTION CO.
833 EAST NORTH SIDE BLVD.
P.O. BOX 87
SOUTH BEND, INDIANA 46624

CONSULTANTS

JAMES K. PERKINS & ASSOCIATES, INC.
SITE DEVELOPMENT CONSULTANT
600 E. NINTH STREET
MICHIGAN CITY, INDIANA 46360

LAWSON-FISHER ASSOCIATES
STRUCTURAL CONSULTANT
525 W. WASHINGTON STREET
SOUTH BEND, INDIANA 46601

VORNDRAN & ASSOCIATES
KITCHEN CONSULTANT
3415 N. CLINTON STREET
FT. WAYNE, INDIANA 46805

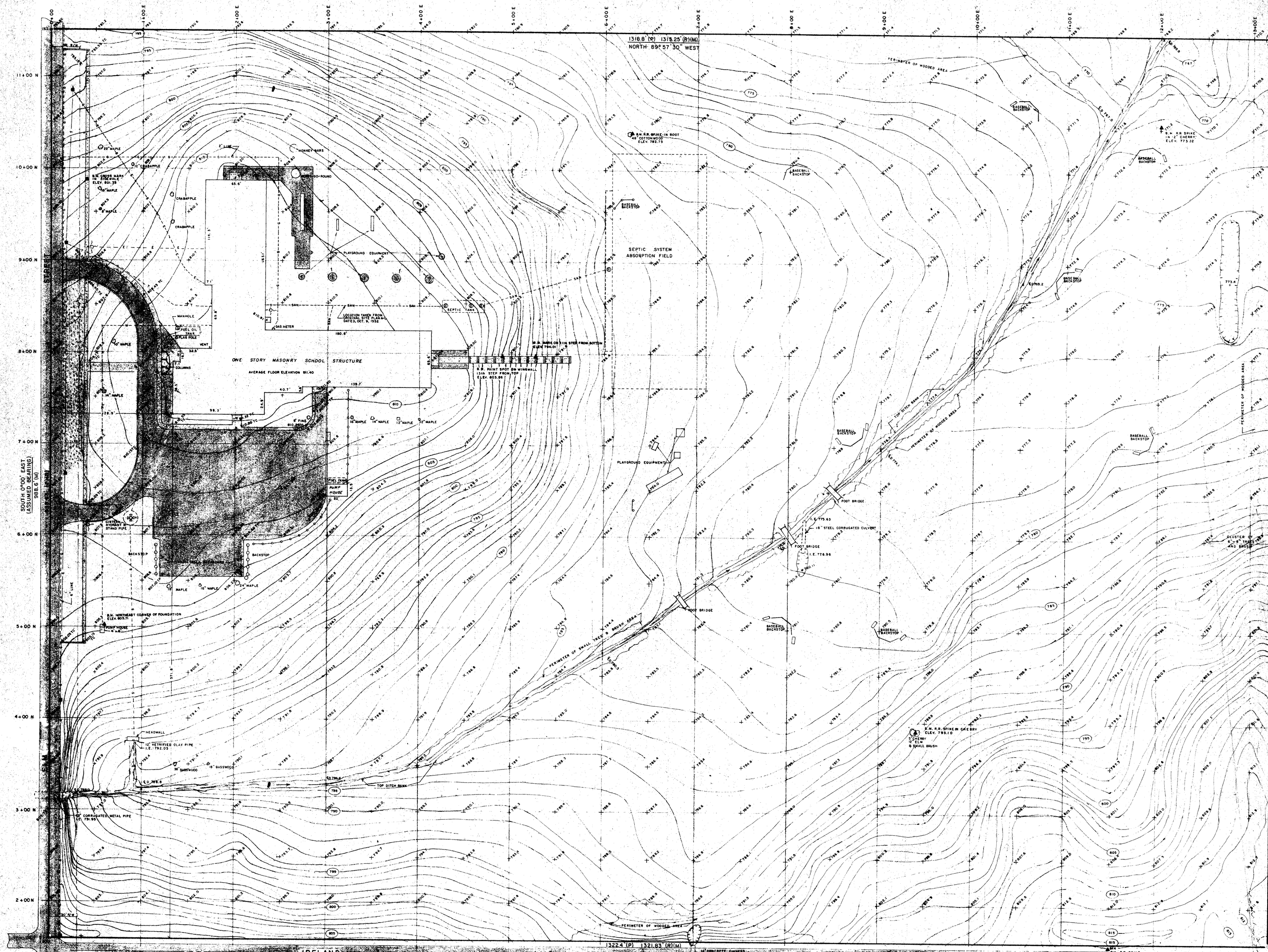
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LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

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CHECKED BY: J
COMM. NO.: 8455.00
DATE: 11 NOV. 1985
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LEGEND:

- (F) = FOUND
- (S) = SET
- (R) = RECORD
- (P) = PLATTED
- (C) = CALCULATED
- (M) = MEASURED
- I.E. = INVERT ELEVATION
- 788.6 = SPOT ELEVATION
- B.M. = BENCH MARK
- = IRON PIPE
- = PK NAIL
- = MONUMENT
- = POWER / TELEPHONE POLE
- = LIGHT STANDARD
- = MANHOLE
- = POWER LINE
- = TELEPHONE LINE
- = UNDERGROUND LINES
- = WATER LINE
- = STORM DRAIN
- = GAS LINE
- = SANITATION LINE
- = ASPHALT
- = CONCRETE
- = GRAVEL
- = CENTER LINE OF DITCH
- TC = TOP OF CURB
- TP = TOP OF PAVEMENT

TO THE BEST OF MY KNOWLEDGE, ALL INFORMATION THEREON IS TRUE AND ACCURATE AS SHOWN, AND/OR NOTED.

VAN H. JANOVIC L.S. 50411 2/14/1985

REVISIONS	
DATE	ITEM
2-11-1985	BOUNDARY/UTILITIES

SITE PLAN
ELM ROAD SCHOOL

SECTION 25, TOWNSHIP 37 NORTH, RANGE 3 EAST
PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA

TERRITORIAL ENGINEERING
KNOX — INDIANA

DATE	JOB NO.	FILE	SHEET
2-6-1985	84 S 213	SECTION	1 of 3

NOTE:
EXISTING JUNIPERS IN FRONT OF BUILDING TO BE REMOVED.

5 EXISTING BURNING BUSHES IN FRONT OF BUILDING TO BE RELOCATED BY LANDSCAPE CONTRACTOR TO AREA SHOWN ON PLANTING PLAN - SHT. L-2. LANDSCAPER TO STORE BURNING BUSHES AT HIS NURSERY UNTIL TIME OF PLANTING.

CONC. STOOP REMOVED (TYP.)

THESE 3 TREES TO REMAIN.

EXIST. POLE TO BE RELOCATED.

EXIST. LIGHT POLE TO BE REMOVED.

SEE NOTE ABOVE FOR PLANTS IN THIS APPROX. AREA.

REMOVE EXIST. PLAY EQUIP.

REMOVE EXIST. PVMT. & BASE.

REMOVE CONC. CURBS

NEW WALL LINES (TYP.)

REMOVE FLAGPOLE

EXISTING ASPHALT TO BE REMOVED.

REMOVE EXIST. CONC. STEPS.

EXIST. CONC. TO BE REMOVED. (TYP.)

EXIST. TREES TO BE REMOVED (TYP.)

REMOVE EXIST. BIT. ASPH. PVMT. & GRAVEL BASE

EXIST. POLE TO BE RELOCATED.

REMOVE EXISTING PUMP HOUSE & FOUNDATION.

REMOVE EXIST STL. POST & CABLE FENCE.

REMOVE CURBS

EXIST. LIGHT POLE TO BE REMOVED.

REMOVE BACKBOARDS, POLES & FENCE - EACH END OF COURT.

THESE 3 TREES TO REMAIN

CAUTION:
EXIST. CISTERN, HYDRANT & STAND PIPE TO REMAIN UNDISTURBED.

ELM ROAD

REMOVE EXIST. GRAVEL ALONG ROAD.

R.O.W.

NOTE
REFER TO SITE UTILITIES PLAN FOR REMOVAL OF UNDERGROUND FUEL TANKS, GAS PUMP.

CONTRACTOR TO CONTACT OWNER AS TO THE DISPOSAL OF EXIST. PLAY EQUIP. THAT IS BEING REMOVED.

THIS TREE TO REMAIN

REMOVE BACKSTOP

REMOVE EXIST. PLAY EQUIP.

REMOVE EXIST. DEBRIS FROM STREAM - OLD TIRES & OTHER MISC. JUNK.

REMOVE THESE 3 FOOTBRIDGES FOLLOWING INSTALLATION OF NEW ONES.

NOTE:
THE 5 BACKSTOPS SHOWN AS BEING REMOVED ON THIS SIDE OF STREAM ARE TO BE REMOVED ONLY IF ALTERNATIVE #1 IS ACCEPTED.

REMOVE BACKSTOPS

BID PACKAGE NO. 1
ALL SITE DEMOLITION SHOWN ON THIS SHEET.

SITE DEMOLITION PLAN
SCALE: 1" = 40'-0"

NORTH

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JAMES K. PERKINS, REG. No. LA0083, STATE OF INDIANA, LANDSCAPE ARCHITECT

LEE BROCKWAY, REGISTERED No. 1666, STATE OF INDIANA, ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

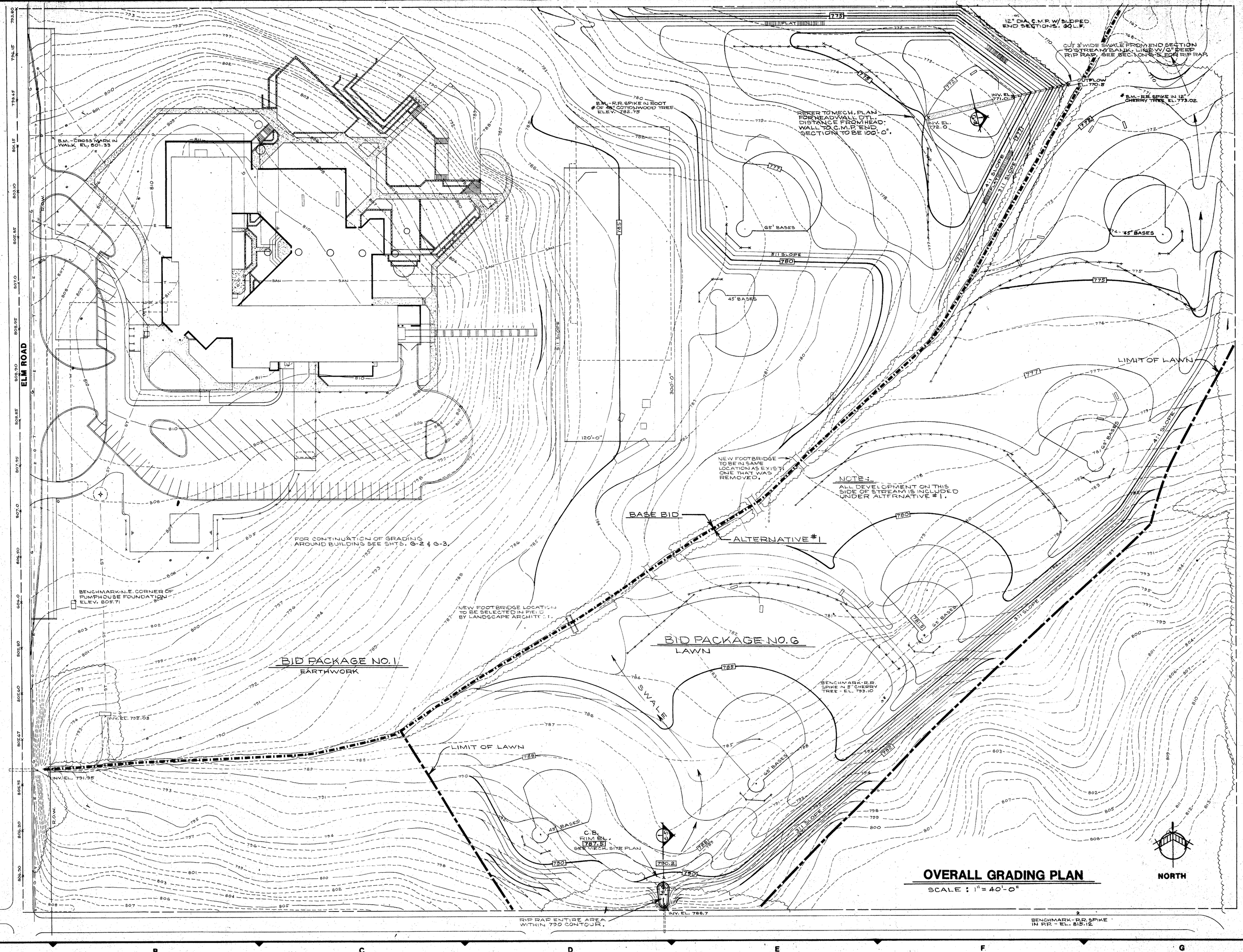
JAMES K. PERKINS & ASSOC., INC.
LANDSCAPE ARCHITECTS
SITE PLANNERS
MICHIGAN CITY, INDIANA 46360

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SITE DEMOLITION PLAN
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G/D-1

ELM ROAD 8455.00



OVERALL GRADING PLAN

SCALE : 1" = 40'-0"

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JAMES K. PERKINS REGISTERED LANDSCAPE ARCHITECT No. L0061 STATE OF INDIANA

LEE BROCKWAY REGISTERED No. 4666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

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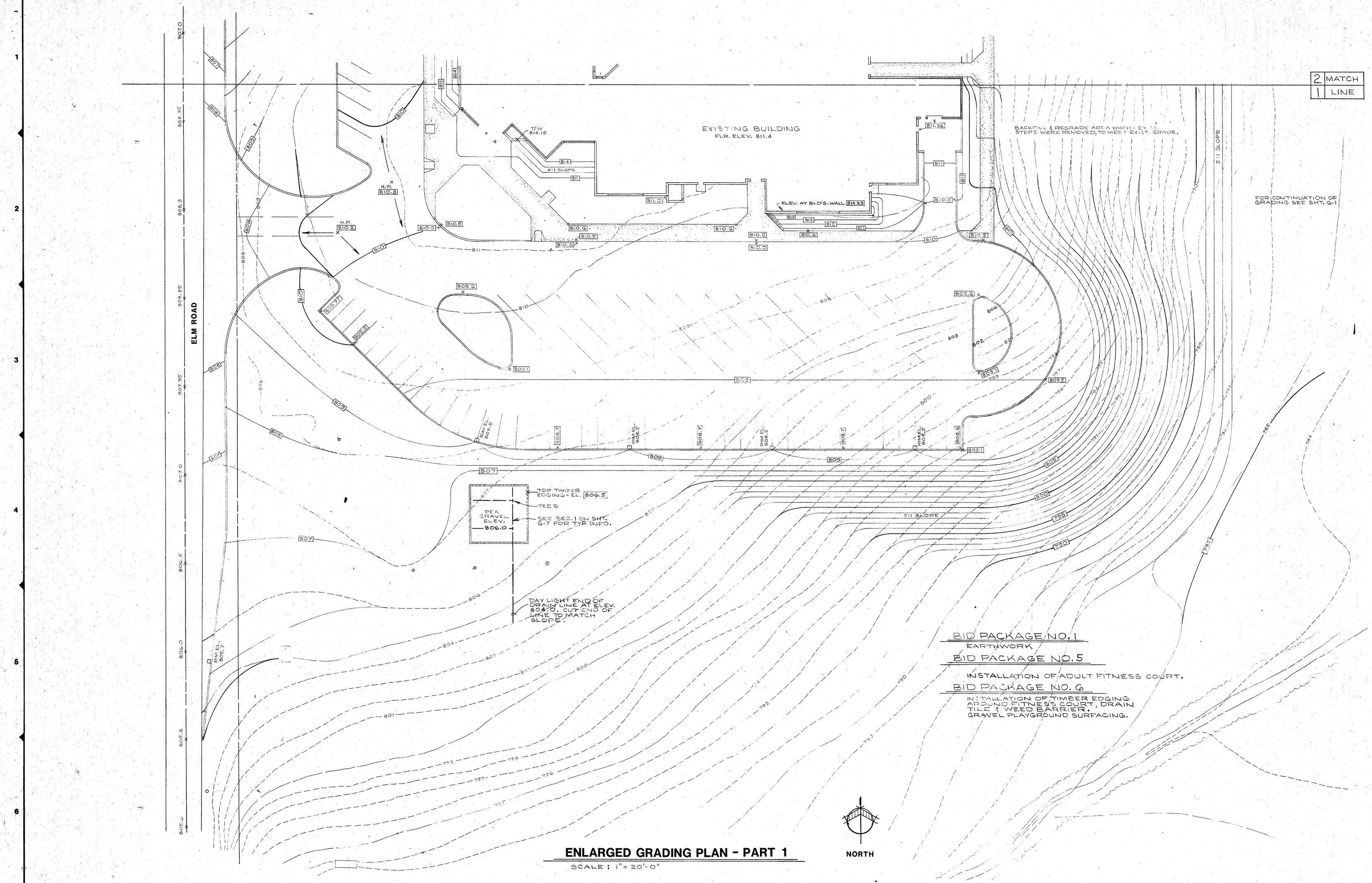
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OVERALL GRADING PLAN

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G-1



ENLARGED GRADING PLAN - PART 1

SCALE: 1" = 20'-0"

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LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

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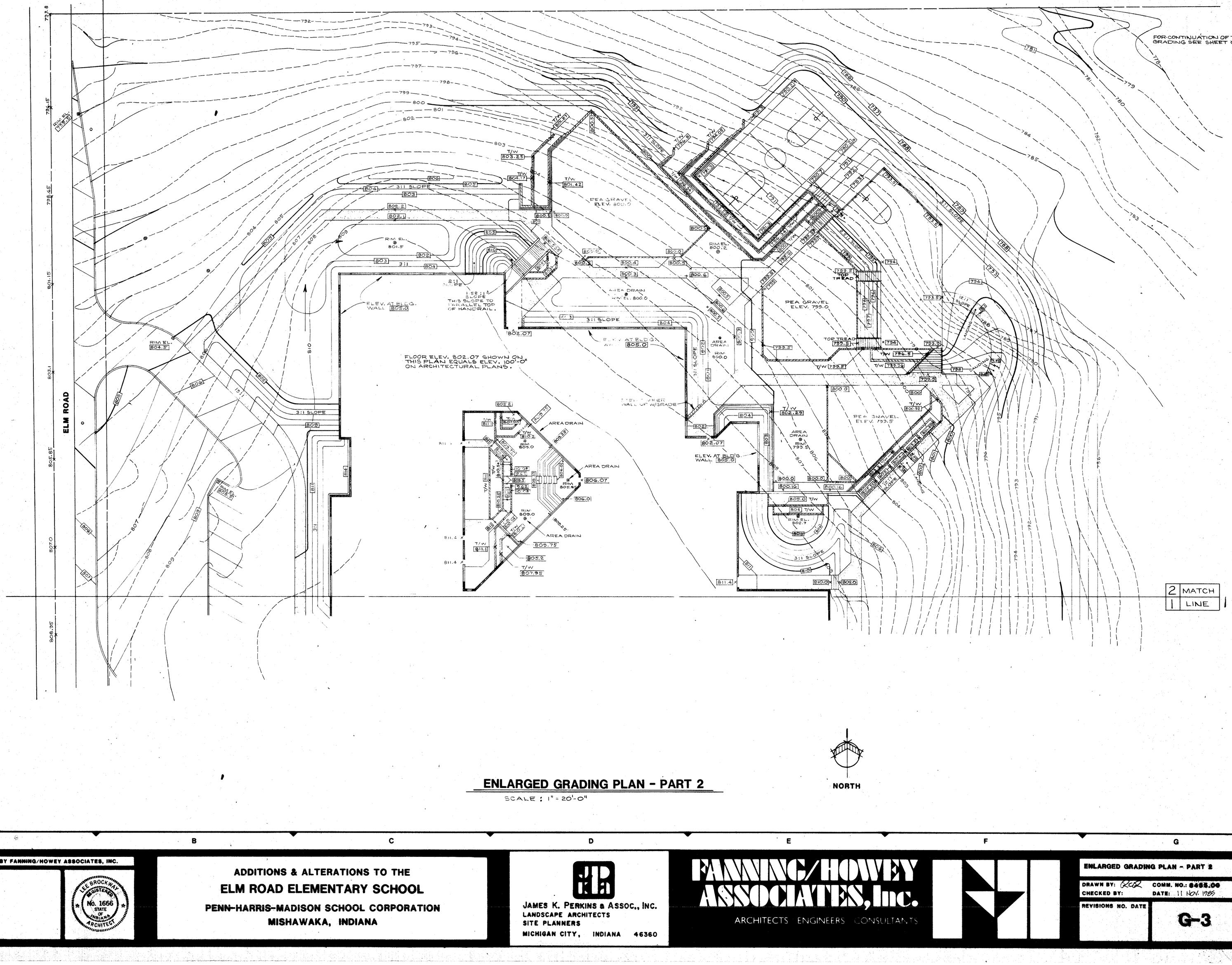
ENLARGED GRADING PLAN - PART 1

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REVISIONS NO. DATE

G-2

ELM ROAD 8455.00



ENLARGED GRADING PLAN - PART 2

SCALE : 1" = 20'-0"

NORTH

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LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

JAMES K. PERKINS & ASSOC., INC.
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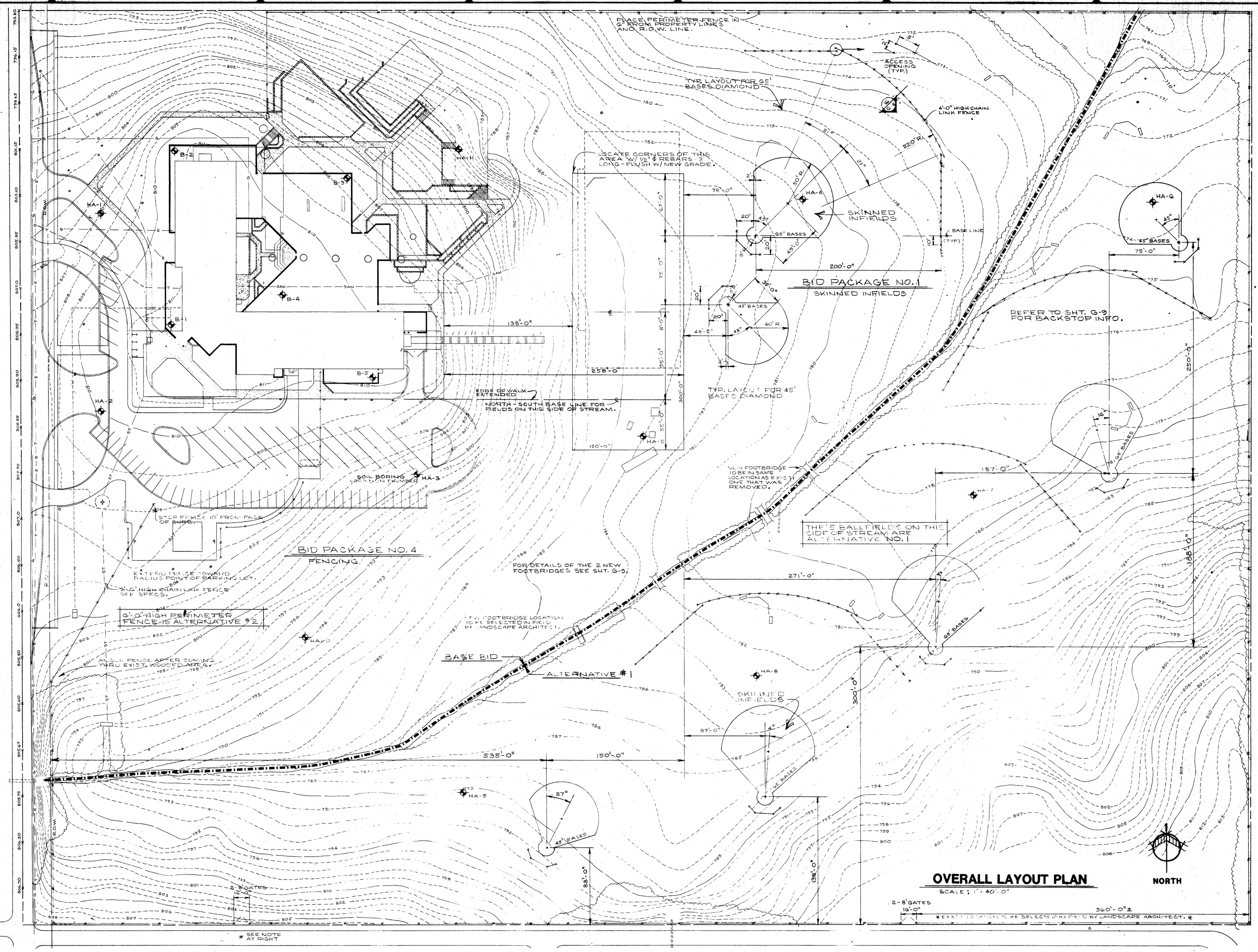
ENLARGED GRADING PLAN - PART 2

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ELM ROAD 8455.00



OVERALL LAYOUT PLAN

SCALE: 1" = 40'-0"

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LEE BROCKWAY — REGISTERED — No. 3666 — STATE OF INDIANA — ARCHITECT

ADDITIONS & ALTERATIONS TO THE

ELM ROAD ELEMENTARY SCHOOL

PENN-HARRIS-MADISON SCHOOL CORPORATION

MISHAWAKA, INDIANA

JAMES K. PERKINS & ASSOC., INC.
LANDSCAPE ARCHITECTS
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OVERALL LAYOUT PLAN

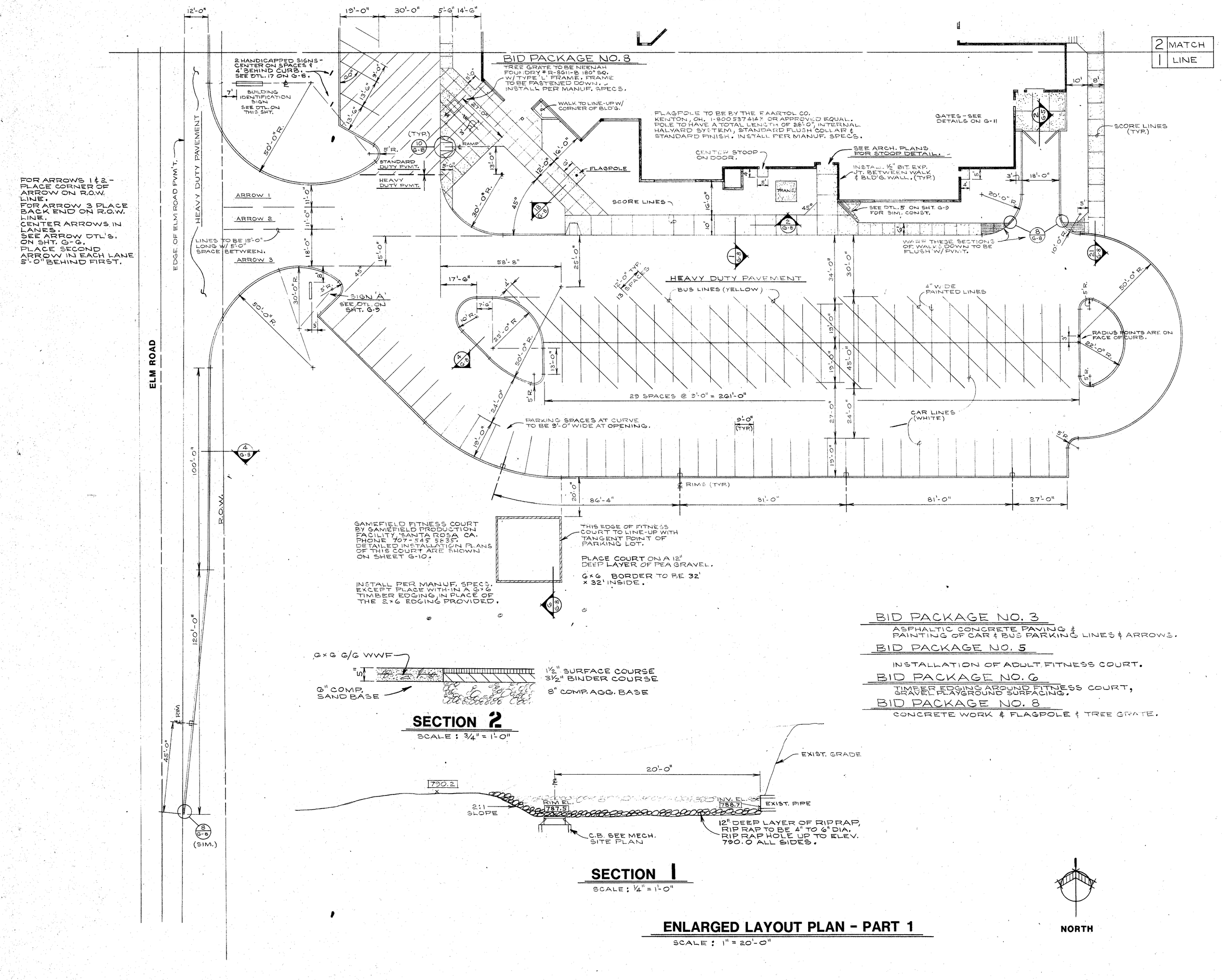
DRAWN BY: RCR — COMM. NO.: 8455.00

CHECKED BY: — DATE: 11 NOV. 1985

REVISIONS NO. DATE

G-4

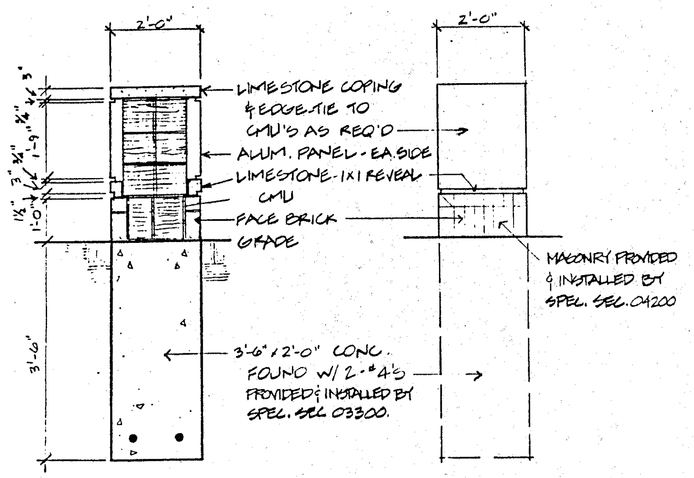
NOTE:
DIMENSIONS SHOWN AT ALL CURBS ARE TO THE FACE.
ALL EXTERIOR CONC. STEPS TO HAVE A BROOM FINISH.

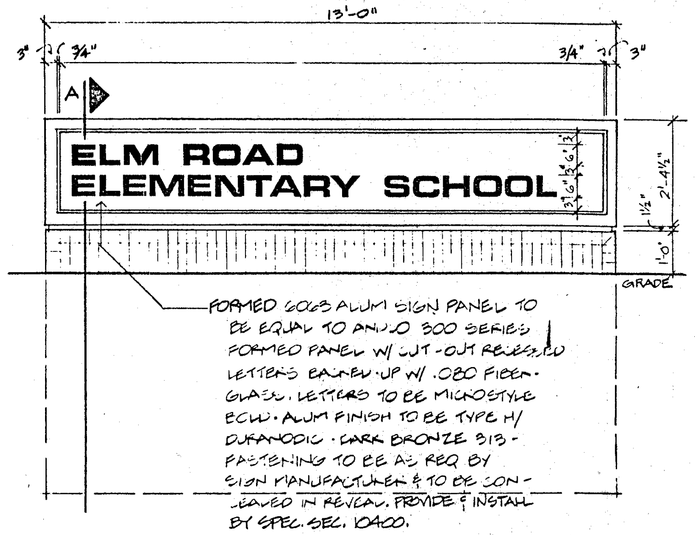


FOR ARROWS 1 & 2 - PLACE CORNER OF ARROW ON R.O.W. LINE.
FOR ARROW 3 PLACE BACK END ON R.O.W. LINE.
CENTER ARROWS IN LANES.
SEE ARROW DTL'S. ON SHT. G-9.
PLACE SECOND ARROW IN EACH LANE 5'-0" BEHIND FIRST.

LEGEND

- + 787.5 — EXISTING SPOT ELEVATIONS
- + 809.1 — NEW SPOT ELEVATIONS
- 794 — EXISTING CONTOURS
- 801 — NEW CONTOURS
- EXISTING TREES TO BE REMOVED
- EXISTING CONC. TO BE REMOVED
- EXISTING PAVEMENT & BASE TO BE REMOVED
- NEW CONC. & SCORE LINES
- TIMBER WALLS W/ BATTER
- B-3 — SOIL BORING LOCATION & NO.
- LINE OF CURB
- STANDARD DUTY PAVEMENT





BUILDING IDENTIFICATION SIGN
BID PACKAGE NO. 8

SECTION 2
SCALE: 3/4" = 1'-0"

SECTION 1
SCALE: ½" = 1'-0"

BID PACKAGE NO. 3
ASPHALTIC CONCRETE PAVING & PAINTING OF CAR & BUS PARKING LINES & ARROWS.
BID PACKAGE NO. 5
INSTALLATION OF ADULT FITNESS COURT.
BID PACKAGE NO. 6
TIMBER EDGING AROUND FITNESS COURT, GRAVEL PLAYGROUND SURFACING.
BID PACKAGE NO. 8
CONCRETE WORK & FLAGPOLE & TREE GRATE.

NORTH

ENLARGED LAYOUT PLAN - PART 1
SCALE: 1" = 20'-0"

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JAMES K. PERKINS 7-1-82 No. L0083 STATE OF INDIANA LANDSCAPE ARCHITECT
LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

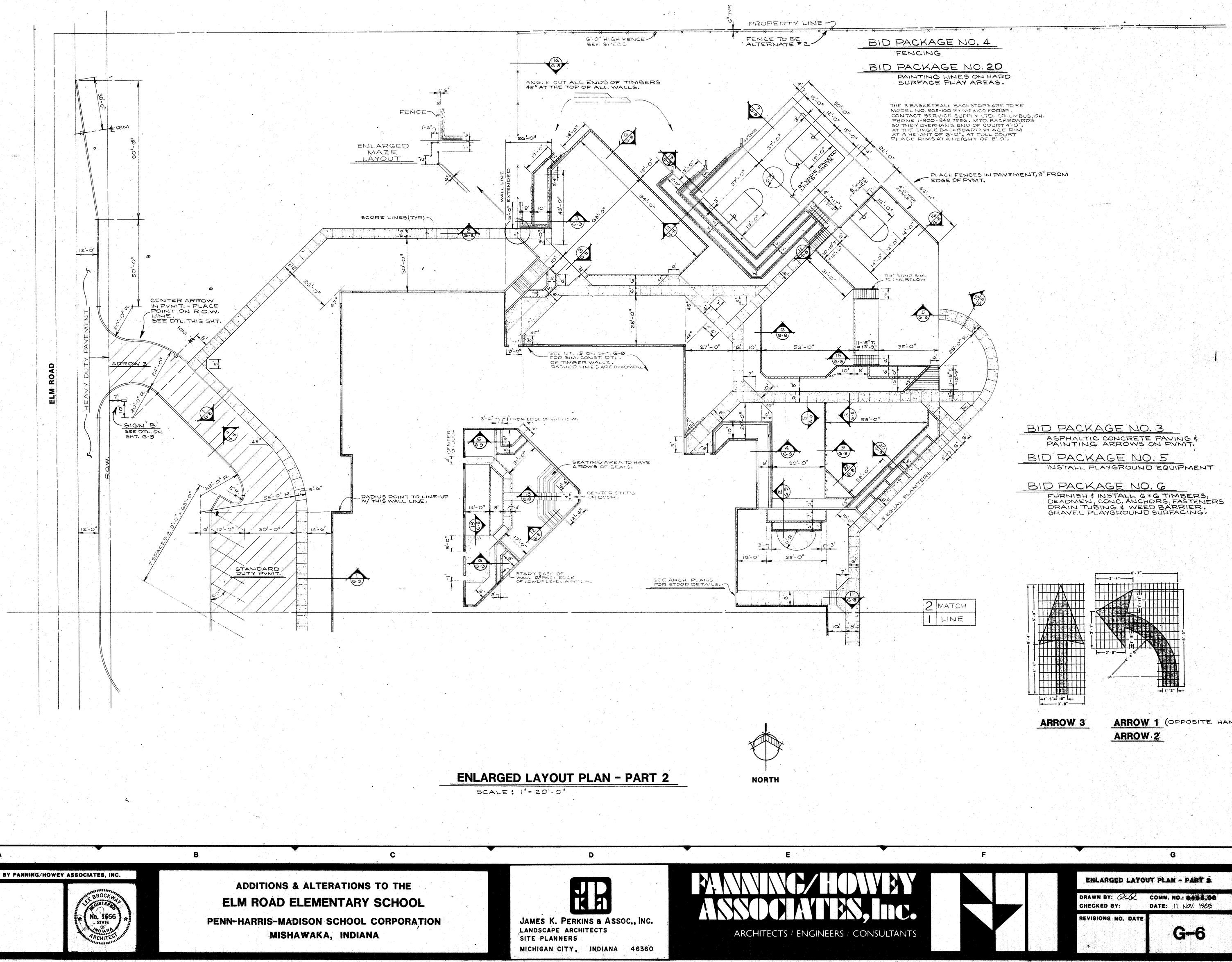
ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

JAMES K. PERKINS & ASSOC., INC.
LANDSCAPE ARCHITECTS
SITE PLANNERS
MICHIGAN CITY, INDIANA 46360

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ENLARGED LAYOUT PLAN - PART 1
DRAWN BY: RCR
CHECKED BY:
COMM. NO.: 8455.00
DATE: 11 NOV. 1985
REVISIONS NO. DATE
G-5
ELM ROAD 8455.00

18
110



BID PACKAGE NO. 4
FENCING

BID PACKAGE NO. 20
PAINTING LINES ON HARD SURFACE PLAY AREAS.

BID PACKAGE NO. 3
ASPHALTIC CONCRETE PAVING & PAINTING ARROWS ON PVMT.

BID PACKAGE NO. 5
INSTALL PLAYGROUND EQUIPMENT

BID PACKAGE NO. 6
FURNISH & INSTALL 6"x6" TIMBERS, DEADMEN, CONC. ANCHORS, FASTENERS, DRAIN TUBING & WEED BARRIER. GRAVEL PLAYGROUND SURFACING.

ARROW 3 **ARROW 1** (OPPOSITE HAND) **ARROW 2**

ENLARGED LAYOUT PLAN - PART 2
SCALE: 1" = 20'-0"

NORTH

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MISHAWAKA, INDIANA

JAMES K. PERKINS & ASSOC., INC.
LANDSCAPE ARCHITECTS
SITE PLANNERS
MICHIGAN CITY, INDIANA 46360

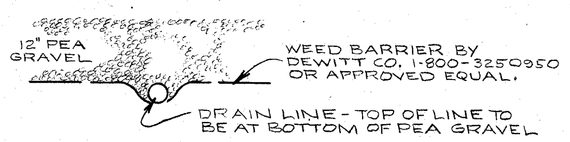
FANNING/HOWEY ASSOCIATES, Inc.
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ENLARGED LAYOUT PLAN - PART 2
DRAWN BY: RCR COMM. NO.: 8458.00
CHECKED BY: DATE: 11 NOV. 1985
REVISIONS NO. DATE
G-6

BID PACKAGE NO. 6

WEED BARRIER & DRAIN LINES, GRAVEL PLAYGROUND SURFACING.

AT AREAS OF 24" PEA GRAVEL UNDER SWINGS & AT ENDS OF SLIDES CARRY WEED BARRIER UNDER IT



SECTION 1

SCALE : 3/4" = 1'-0"

PAINTED PLAYGROUND NOTES

ALL THE SMALL CIRCLES, SQUARES, TRIANGLES & DIAMONDS ARE 1'-6" IN DIAMETER OR ALONG THE EDGES. THEY ARE ALL PAINTED SOLID WHITE. THE SYMBOLS ARE SPACED 8" APART.

THE DASHED LINE IS MADE UP OF 2'-0" LONG LINES WITH A 6" GAP BETWEEN THEM.

ALL LINES ARE TO BE 4" WIDE AND PAINTED WHITE EXCEPT FOR THE HOPSCOTCH LINES THAT ARE TO BE 3" WIDE.

SEE SPECS FOR TYPE OF PAINTING SYSTEM TO USE. (09900)

HOPSCOTCH AREA COLORS ARE AS FOLLOWS - AREAS 1,4,9 & 10 ARE BLUE AREAS 2,5 & 7 ARE RED AREAS 3,6 & 8 ARE YELLOW. THE NUMBERS ARE TO BE WHITE, 10" HIGH WITH 1" WIDE LINES, NO'S. 9 & 10 ARE TO BE ONLY 6" HIGH.

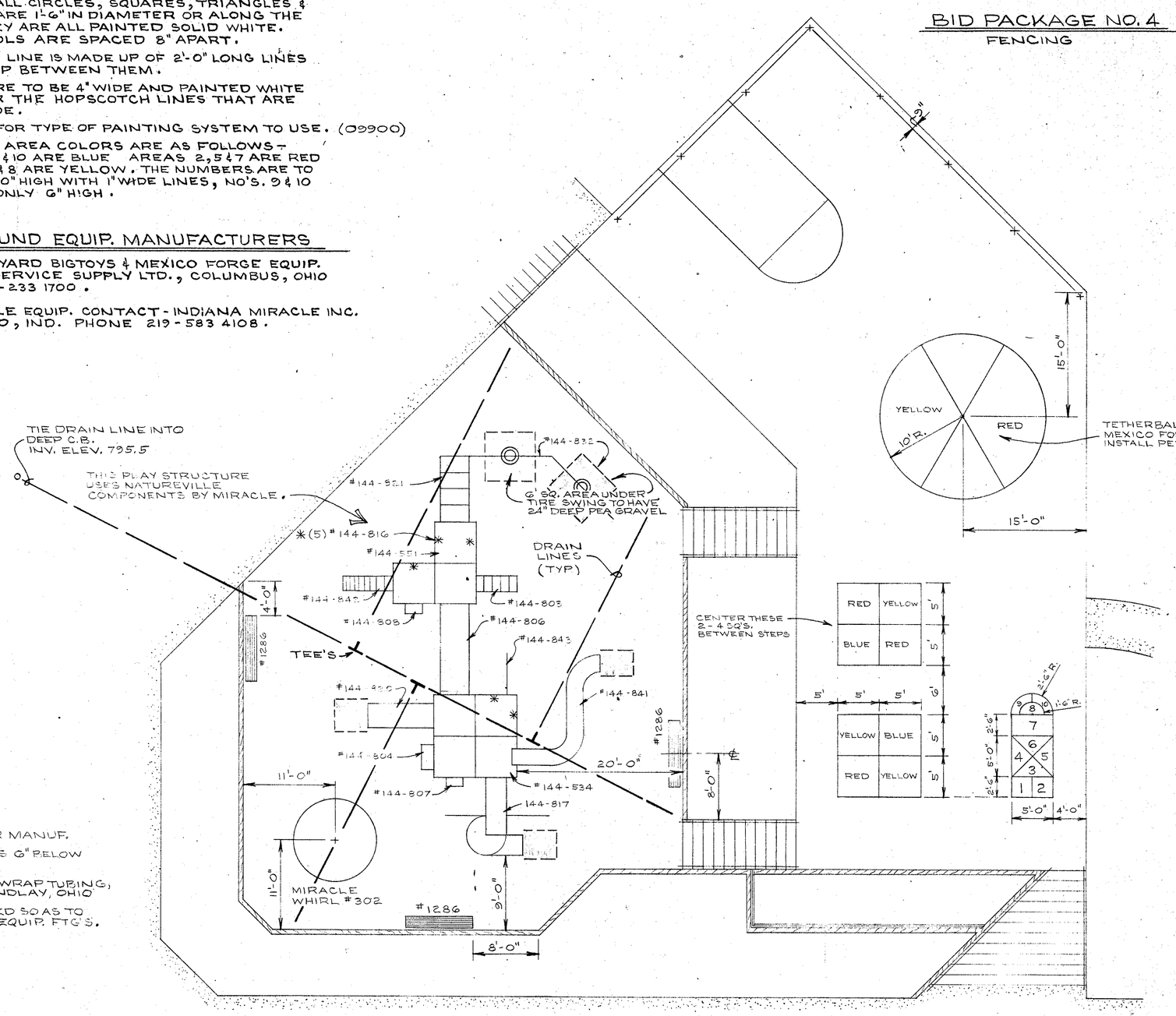
PLAYGROUND EQUIP. MANUFACTURERS

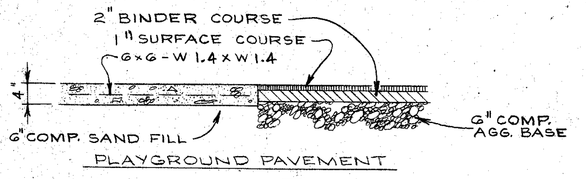
FOR SCHOOLYARD BIGTOYS & MEXICO FORGE EQUIP. CONTACT - SERVICE SUPPLY LTD., COLUMBUS, OHIO PHONE 219-233 1700.

FOR MIRACLE EQUIP. CONTACT - INDIANA MIRACLE INC. MONTICELLO, IND. PHONE 219-583 4108.

BID PACKAGE NO. 4

FENCING

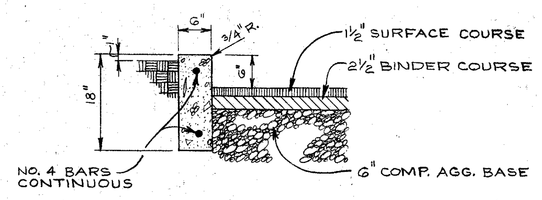

TIE DRAIN LINE INTO DEEP C.B. INV. ELEV. 795.5
THIS PLAY STRUCTURE USES NATUREVILLE COMPONENTS BY MIRACLE.
#144-832
#144-821
6' SQ. AREA UNDER TIRE SWING TO HAVE 24" DEEP PEA GRAVEL
(5) #144-816
#144-851
DRAIN LINES (TYP)
#144-842
#144-808
#144-803
#144-806
#144-843
TEE'S
#144-850
#144-841
#144-804
#144-807
#144-534
144-817
#1286
11'-0"
20'-0"
8'-0"
MIRACLE WHIRL #302
#1286
8'-0"
4'-0"
CENTER THESE 2 - 4 SQS. BETWEEN STEPS
RED YELLOW
BLUE RED
YELLOW BLUE
RED YELLOW
5'
5'
5'



PLAYGROUND PAVEMENT

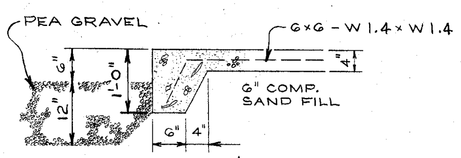
SECTION 5

SCALE : 3/4" = 1'-0"



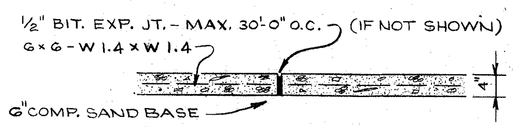
SECTION 4

SCALE: 3/4" = 1'-0"



SECTION 3

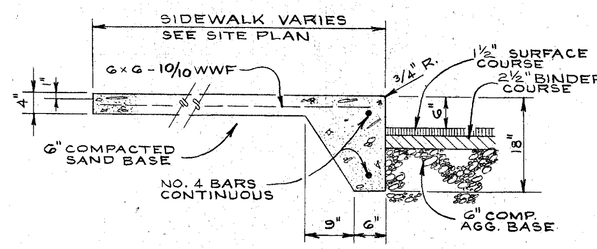
SCALE : 3/4" = 1'-0"



SECTION 2

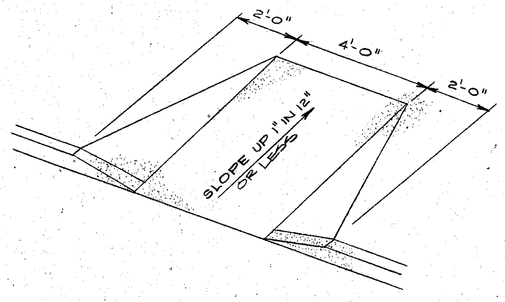
SCALE : 3/4" = 1'-0"

SECTIONS 1 & 4 SHOW THE STANDARD DUTY PAVEMENT DEPTH. AT HEAVY DUTY PAVEMENT AREA CHANGE PAVEMENT THICKNESS TO 1½"-3½"-8"



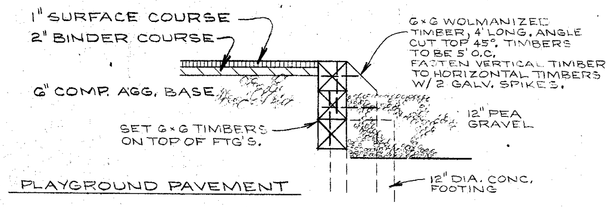
SECTION 1

SCALE : 3/4" = 1'-0"



DETAIL 10

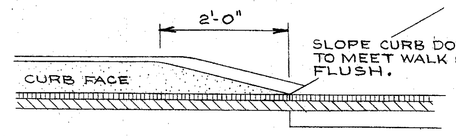
NO SCALE



PLAYGROUND PAVEMENT

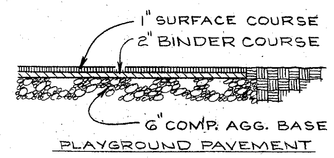
SECTION 9

SCALE : 3/4" = 1'-0"



SECTION 8

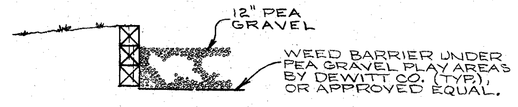
SCALE : 3/4" = 1'-0"



PLAYGROUND PAVEMENT

SECTION 7

NO SCALE



SECTION 6

SCALE : ½" = 1'-0"

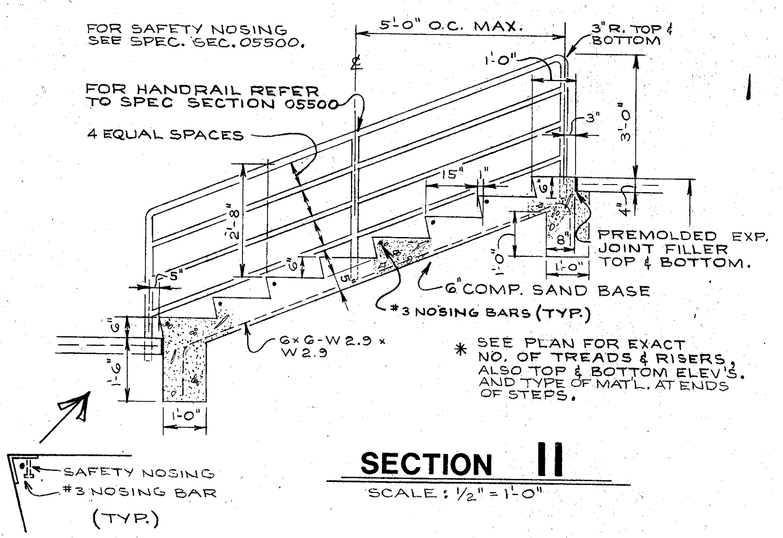
BID PACKAGE NO. 1
BASE UNDER WALKS

BID PACKAGE NO. 3
ASPHALTIC CONCRETE PAVING & PAINTING OF CAR & BUS PARKING LINES.

BID PACKAGE NO. 6
GRAVEL PLAYGROUND SURFACE & SANDBOX SAND. DRAIN TILE & WEED BARRIER UNDER PEA GRAVEL PLAY AREAS. FURNISH & INSTALL TIMBERS, DEADMEN, CONC. ANCHORS & FASTENERS.

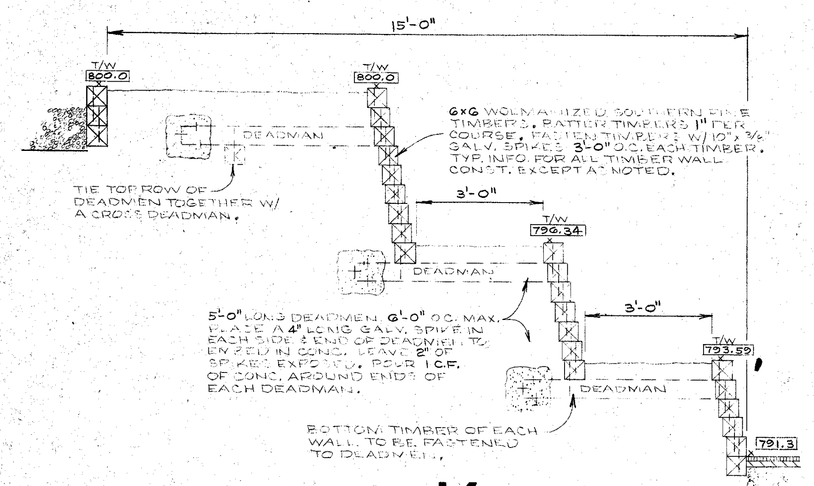
BID PACKAGE NO. 8
CONCRETE WORK

PLACE HANDRAILS IN 4" FROM EDGE OF CONC. STEPS.



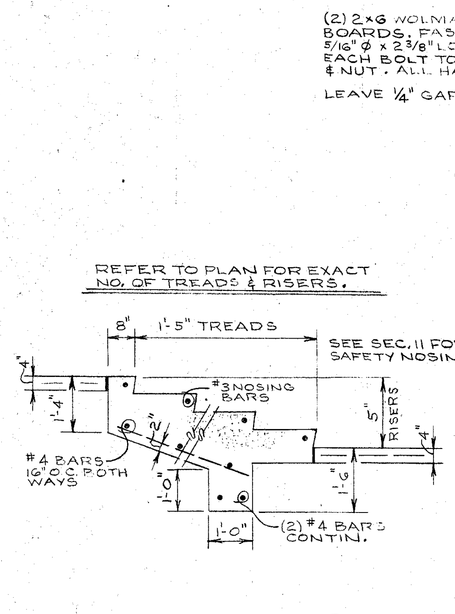
SECTION 11

SCALE : ½" = 1'-0"



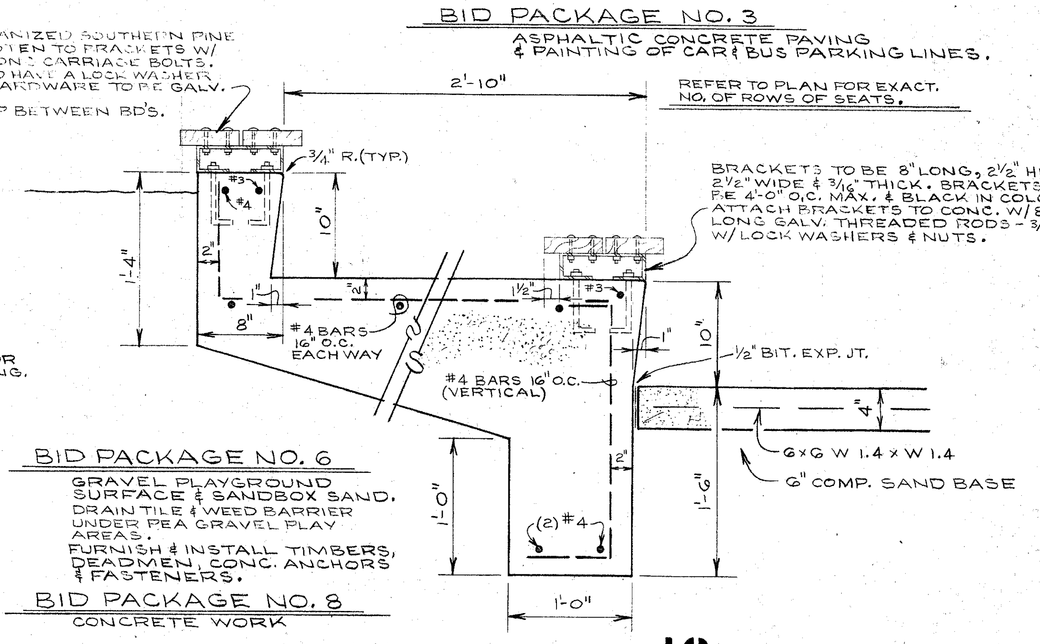
SECTION 14

SCALE : ½" = 1'-0"



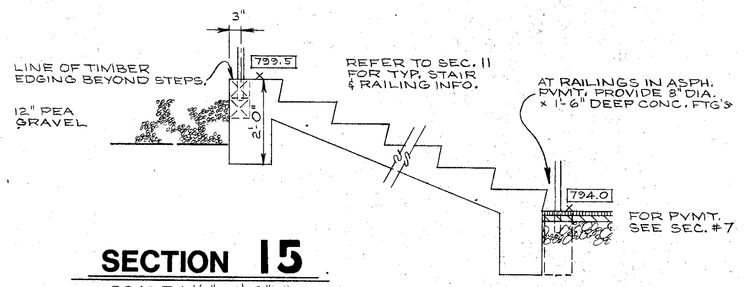
SECTION 13

SCALE : ½" = 1'-0"



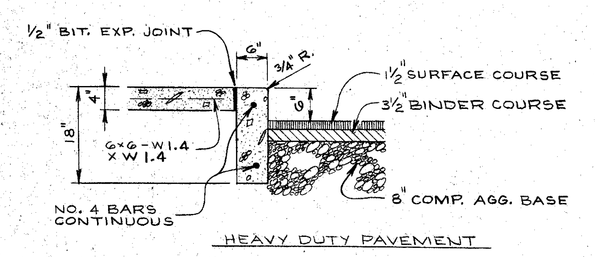
SECTION 12

SCALE : 1½" = 1'-0"



SECTION 15

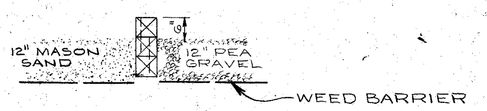
SCALE : ½" = 1'-0"



HEAVY DUTY PAVEMENT

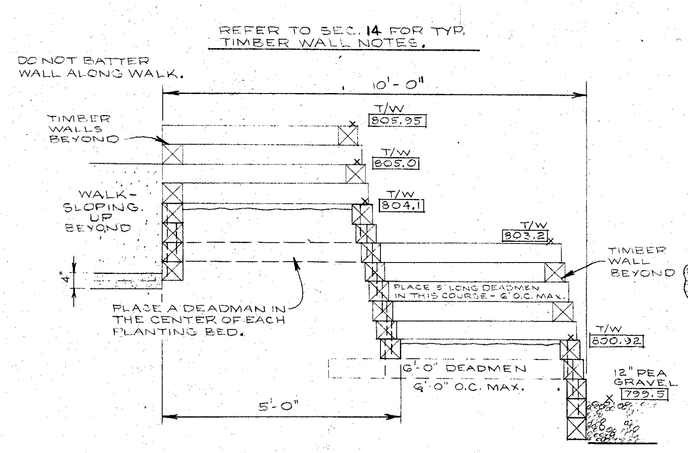
SECTION 21

SCALE : 3/4" = 1'-0"



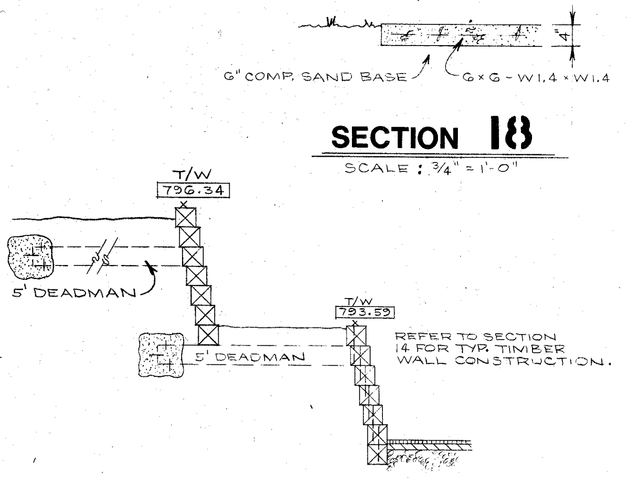
SECTION 22

SCALE : ½" = 1'-0"



SECTION 20

SCALE : ½" = 1'-0"

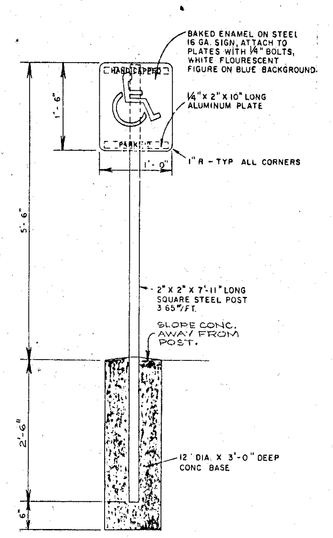


SECTION 18

SCALE : 3/4" = 1'-0"

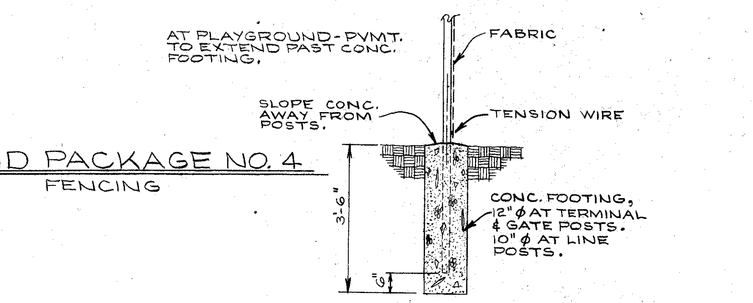
SECTION 19

SCALE : ½" = 1'-0"



DETAIL 17

NO SCALE



BID PACKAGE NO. 4
FENCING

SECTION 16

SCALE : ½" = 1'-0"

SECTIONS & DETAILS

SCALE AS NOTED

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PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

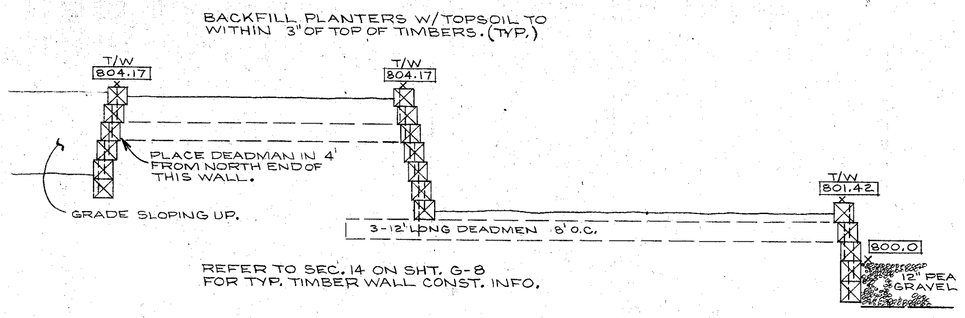
JAMES K. PERKINS & ASSOC., INC.
LANDSCAPE ARCHITECTS
SITE PLANNERS
MICHIGAN CITY, INDIANA 46360

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ARCHITECTS / ENGINEERS / CONSULTANTS

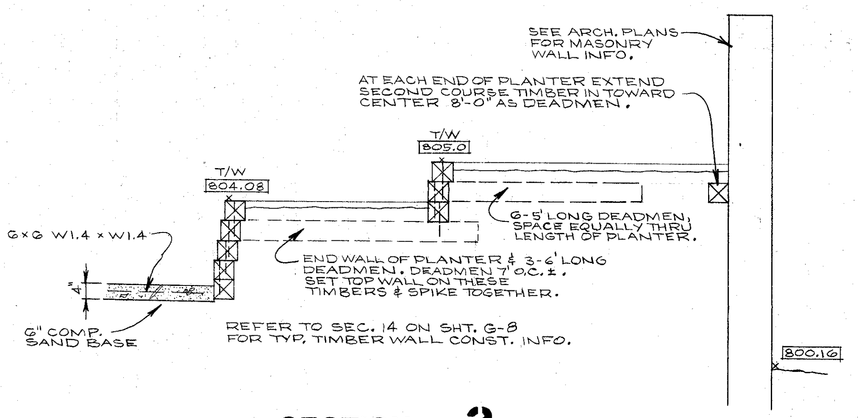
SECTIONS & DETAILS

DRAWN BY: RLR
CHECKED BY:
COMM. NO.:
DATE: 11 NOV. 1985
REVISIONS NO. DATE

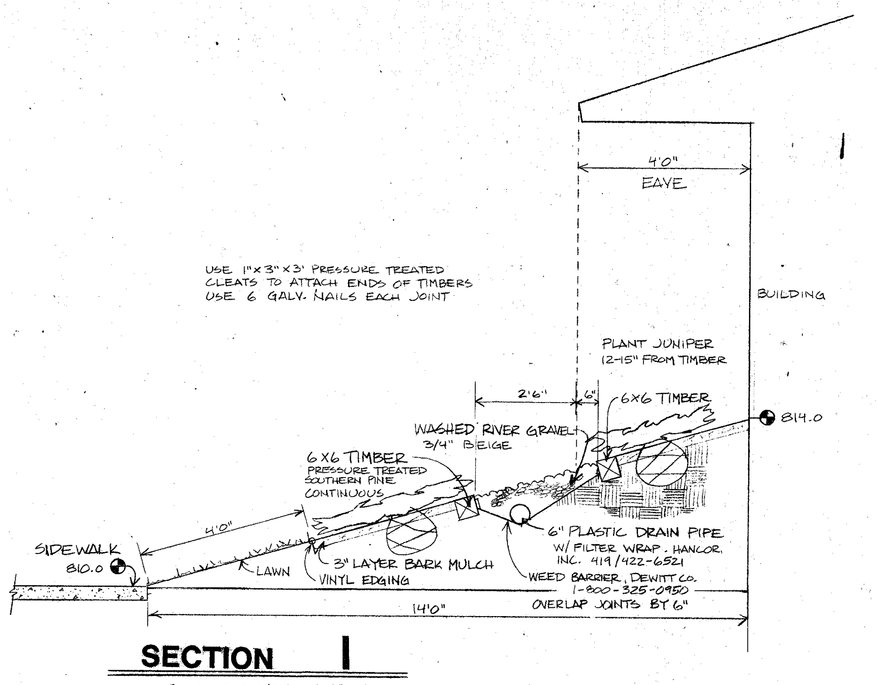
G-8



SECTION 3
SCALE: 1/2" = 1'-0"

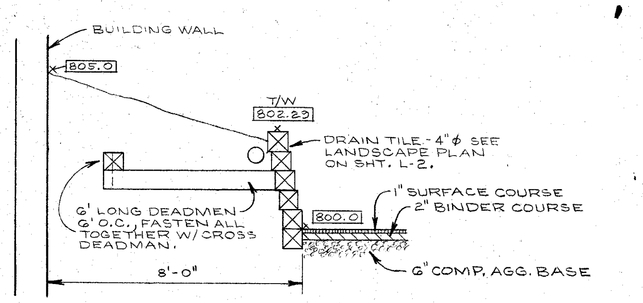


SECTION 2
SCALE: 1/2" = 1'-0"

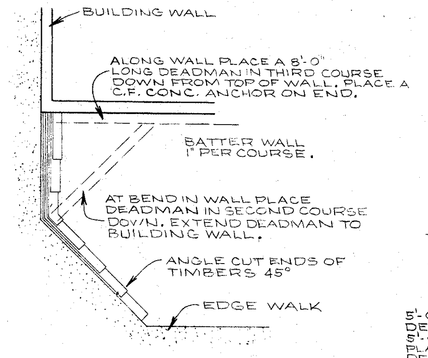


SECTION 1
SCALE: 1/2" = 1'0"

THIS IS A TYPICAL CONSTRUCTION PLAN OF SMALL TIMBER WALLS AT ENTRIES.

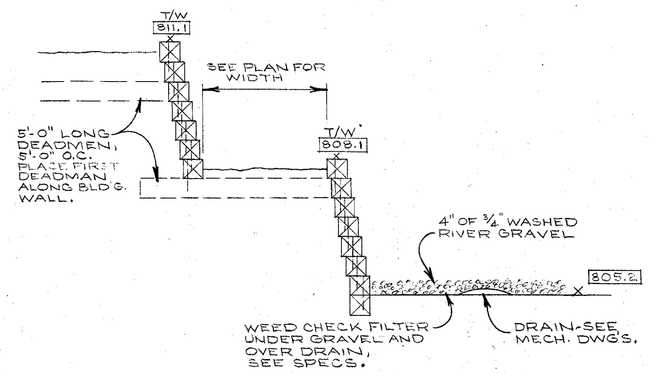


SECTION 4
N.T.S.

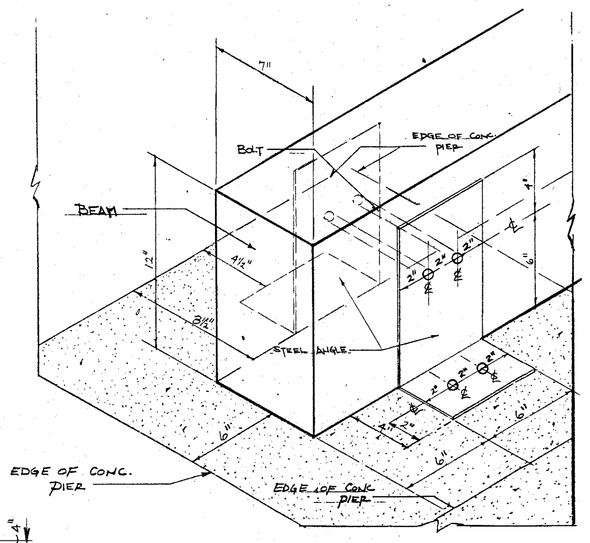


DETAIL 5
SCALE: 1/4" = 1'-0"

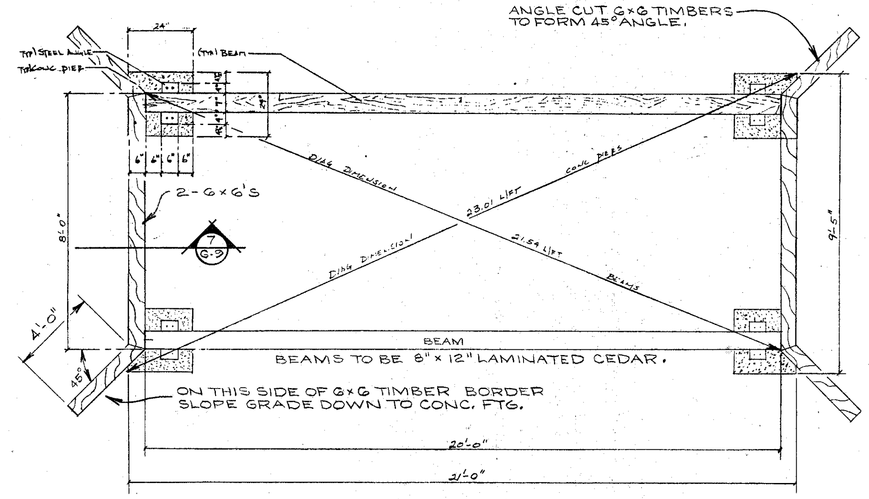
BID PACKAGE NO. 6
FURNISH & INSTALL TIMBERS, DEADMEN, CONC. ANCHORS & FASTENERS. GRAVEL PLAYGROUND SURFACING.

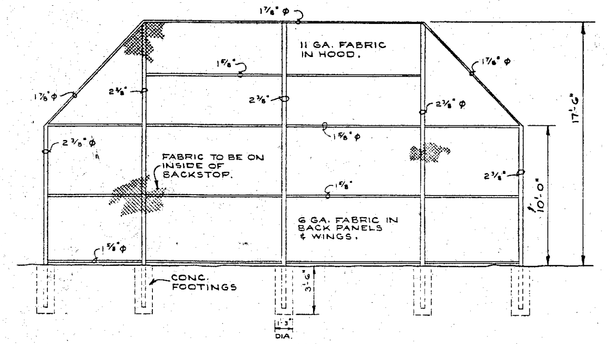


SECTION 6
SCALE: 1/2" = 1'-0"

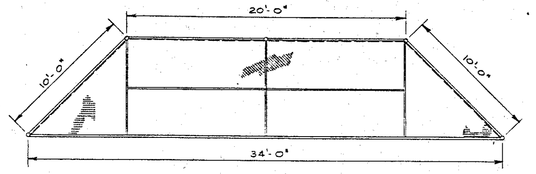


DETAIL: ANCHORING BEAM TO PIER





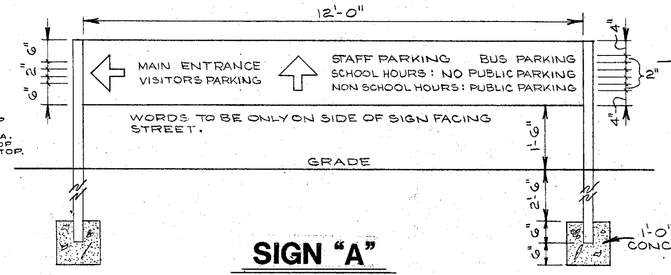
BACKSTOP ELEVATION
SCALE: NONE



BACKSTOP PLAN
SCALE: NONE

THIS BACKSTOP IS TO MEET OR EXCEED THE SPECIFICATIONS OF THE NO. 34-425 BACKSTOP AS MANUFACTURED BY MIRACLE RECREATION EQUIPMENT CO., GRINNELL, IOWA. THE CONSTRUCTION DETAILS FOR THIS BACKSTOP ARE TO BE SIMILAR TO THE MIRACLE BACKSTOP.

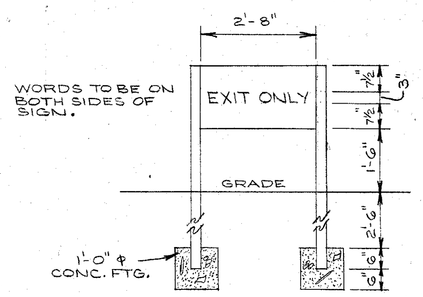
BID PACKAGE NO. 4
FENCING



SIGN "A"

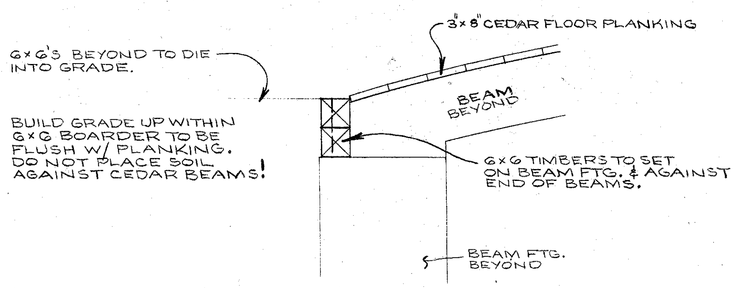
SIGNS, POSTS & FOOTINGS TO BE INSTALLED PER SPEC. SEC. 10400. SEE LAYOUT PLANS FOR SIGNS LOCATIONS.

BID PACKAGE NO. 8

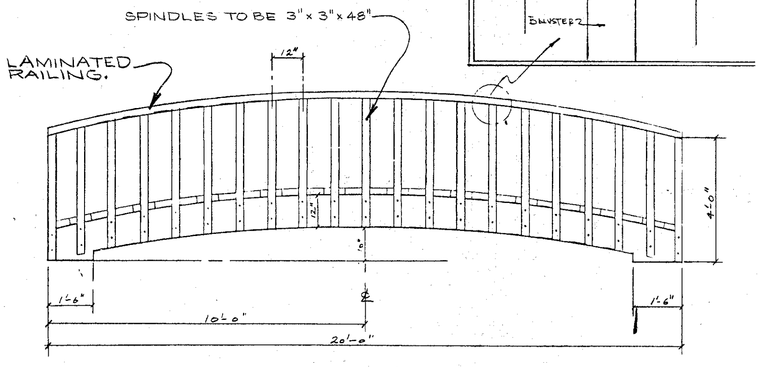


SIGN "B"

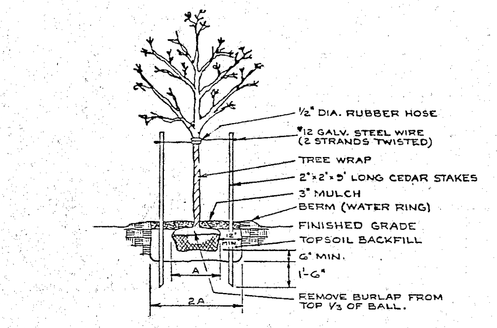
BRIDGE TO BE BY LAROCHELLE WOOD PRODUCTS, BLOOMINGTON ILL. CONTACT MR. DON COCHRAN AT 219-879 5006. OR APPROVED EQUAL.

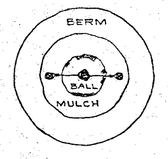


SECTION 7
SCALE: 3/4" = 1'-0"



DETAILS OF FOOTBRIGES OVER STREAM
BID PACKAGE NO. 5

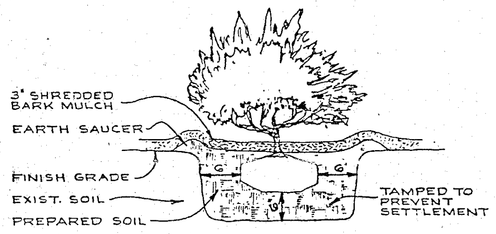




THE DISTANCE FROM TREE TO STAKE IS APPROX. 1/2 THE HEIGHT OF THE TREE.

WHITE FLAGS, 2 PER WIRE, ARE FOR SAFETY AND SHALL REMAIN UNTIL STAKES ARE PULLED.

TREE STAKING DETAIL



SHRUB BALLED IN BURLAP
NO SCALE

BID PACKAGE NO. 6
LANDSCAPING

SECTIONS & DETAILS
SCALE AS NOTED

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JAMES K. PERKINS 7-1-83 No. L0083 STATE OF INDIANA LANDSCAPE ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

JAMES K. PERKINS & ASSOC., INC.
LANDSCAPE ARCHITECTS
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MICHIGAN CITY, INDIANA 46360

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

SECTIONS & DETAILS
DRAWN BY: DCR COMM. NO.:
CHECKED BY: DATE: 11 NOV. 1985
REVISIONS NO. DATE

G-9

THE FITNESS COURT

This manual is a step-by-step guide to the receipt, preparation, layout and construction of your new Gamefield Fitness Course. Read and understand the entire manual before you begin. A quick look-through now, or a memorization later.

An overview: over 4212 sq.ft. of eight graceful, yet essential exercises set in a series of stations, a light recovery, a rest between each of the stations, and a light recovery at the end.

Each bolted should be divided by a concrete pad, a turnaround of brick or decorative brick. Each station is also to be set off with an inverted terminal edging. We recommend that you purchase the edging material from your local supplier. Be sure to order enough for the entire course. You will need a total of 1220 lin.ft. of edging.

To insure of scheduling the project, three days is required to properly install the entire course, including receiving and unloading the materials, digging the holes, setting the posts, backfill and setting post holes, and completing the grades and edges.

To help this manual, these definitions may be useful:

"Elevation" describes when the equipment looks like from the side.

"Plan View" describes when the equipment looks like from above, looking down.

To improve the appearance and safety of your course, be sure to place 3" to 3/4" gravel at the bottom of all post holes.

Follow the directions in this manual carefully. All necessary dimensions, heights, hole depths, assembly instructions, and concrete pad sizes are given for each game and sign.

IT'S FUN FOR EVERYONE! HAVE FUN! KEEP FIT! STAY HEALTHY!

SIGNS: INTRODUCTION MAIN HOME SELECTION

WARM UP COURT

GAME 1 GAME 2 GAME 3 GAME 4

COOL DOWN COURT

WARM UP COURT

STRENGTH COURT

COOL DOWN COURT

GAME 5 GAME 6 GAME 7 GAME 8

STRENGTH COURT

GAME 9 GAME 10 GAME 11 GAME 12

GAME 13 GAME 14 GAME 15 GAME 16

STEP ONE
GENERAL INFORMATION
FITNESS COURT
NOTES

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
887 SEBASTAPOL RD
SANTA ROSA, CA 95401 (707)545-5835

SHEET NUMBER 3 OF 29

✓	BUNDLE	BUNDLE CONTENTS (STANDARD)
	1	2@8'@2x8"PATIO/DECKBOARDS
	2	5 pcs. 2"x12"
	3	10 pcs. 4"x4"
	4	2 pcs. 2"x8", 4 pcs. 2"x6"
	5	4 pcs. 4"x10"
	6	6 lexan signs, 4 pcs plywood
	7	2 pcs. 4"x4" (2@cs 4x4)
	8	5 pcs. 4"x4" (2@cs 4x4)
	9	8 pcs. 4"x4"
	10	10 pcs. 2"x6"
	11	15 pcs. 2"x6"
	12	8 pcs. 2"x8"
	13	8 pcs. 2"x8"
	14	4 pcs. 2"x8"
	15	8 pcs. 2"x8"
	16	18 pcs. 6"x6"

The crate as it arrives.... with the outer boards removed.

STEP THREE
UNPACKING LIST
FITNESS COURT
NOTES

1) Cut the bands and remove the outer boards, and top of the crate.

2) Remove the outer bands which hold the bundles in place.

3) Take each bundle, matching numbers on the packing list with numbers on the bundles themselves to be sure everything is complete.

4) Open the pipe boxes and loosen any pipes.

5) Open sign portrayes and inventories the signs. Be certain to include all nine according to the packing list.

6) Continue to inventory the pipe box to identify and account for everything on site.

fitness court

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
887 SEBASTAPOL RD
SANTA ROSA, CA 95401 (707)545-5835

SHEET NUMBER 4 OF 29

NORTH EDGE OF FITNESS COURT

STRENGTH

CONTROL POINT

COOL DOWN

WARM UP

CENTER LINE

MAIN SIGN

Introduction Sign

Sport Selection Sign

Game 1 Game 2 Game 3 Game 4 Game 5 Game 6 Game 7 Game 8 Game 9 Game 10 Game 11 Game 12 Game 13 Game 14 Game 15 Game 16

Rotary posts or sleeve all game bolts locations in advance of digging holes. Check with Gamefield Production Facility if you have questions to mark all post holes below. Pay particular attention to the hole depths as shown.

Once you have drilled all holes remove rock and dirt before delivering equipment, signs, and assemblies together to the same areas.

If holes are to remain open for any period of time, necessary safety precautions should be observed.

STEP SEVEN
POST HOLE DRILLING INFORMATION
FITNESS COURT
NOTES

ALL DIMENSIONS SHOWN ARE TO THE CENTERS OF HOLES.

BEGIN COURT LAYOUT AT THE CONTROL POINT. LOCATE THE FOUR CORNERS. CHECK DIAGONAL FOR SQUARENESS. LOCATE THE CENTER LINES. FILL THE LINES AND SIGNS WILL.

TO CONSTRUCT THE MISHAWAKA COURT LAYOUT 3' x 12' x 32' TIMBERS CORRECTLY SIZE AS IN ANY POST HOLES. DRILL HOLES AS SHOWN. CONSTRUCT THE 3" WOOD BORDER CAREFULLY.

fitness court
Border Parts List

QUANT.	
4	3" wood screws
WOOD	
2	3"x6"x8'-0"
2	3"x6"x10'-0"
2	3"x6"x12'-0"
2	3"x6"x14'-0"

Hole Depths

24" DEEP HOLES
30" DEEP HOLES
36" DEEP HOLES

Sign Legend
A - INTRODUCTION SIGN
B - SPORTS SELECTION SIGN
C - MAIN SIGN

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
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SHEET NUMBER 8 OF 29

USE 6"x6" TIMBER BORDER AS SHOWN IN SEC. G ON SHT. G-8 IN PLACE OF 3"x6" BORDER PROVIDED W/ COURT.

COOL DOWN COURT WARM UP COURT

3' x 12'

Game 6 Game 7 Game 1 Game 2 Game 3 Game 4 Game 5 Game 8

Introduction Sign

Sport Selection Sign

Game 13 Game 11 Game 12 Game 9 Game 10 Game 15 Game 16 Game 14

STRENGTH COURT

6" x 6"

PLACE COURT WITH-IN A 32' x 32' INSIDE DIM. BORDER. DO NOT PLACE TIMBERS DOWN CENTER OF COURT. PLACE GAMES AS SHOWN WITH-IN THE 3"x6" BORDER.

STEP SEVEN
COURT ILLUSTRATION
FITNESS COURT
NOTES

WARM-UP COURT
1. Hamstring Stretch
2. Shoulder Stretch
3. Calf Stretch
4. Thigh Stretch

COOL-DOWN COURT
5. Hamstring Stretch
6. Double Calf Stretch
7. Quad Stretch
8. Chest Stretch

STRENGTH COURT
9. Sit-ups
10. Dips
11. Body Lift
12. Truck Pull
13. Push-ups
14. Leg Lifts
15. Pull-ups
16. Leg Press

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
887 SEBASTAPOL RD
SANTA ROSA, CA 95401 (707)545-5835

SHEET NUMBER 9 OF 29

ASSEMBLY INSTRUCTIONS

1) PRE-ASSEMBLE THE SIGN FLAT ON THE GROUND.
2) ATTACH CROSS MEMBER "M" TO ONE UPRIGHT POST "A". USING LAG BOLTS AND WASHERS.
3) SLIDE LEXAN SIGNS AND PLYWOOD BACKING ALONG CHANNEL ON THE UPRIGHT POST "A". BE SURE TO ALIGN THE CHANNEL ON UPRIGHT POST "D". NO GLUE IS REQUIRED.
4) ATTACH OPPOSITE UPRIGHT POST "A" USING LAG BOLTS AND WASHERS.
5) ATTACH WOOD SLAT ALONG CENTER OF SIGNS USING WOOD SCREWS.
6) PLACE ASSEMBLED APPARATUS IN HOLES.
7) POUR CONCRETE, SQUARE AND LEVEL.

STEP SIGN
MAIN SIGN
FITNESS COURT
PARTS LIST

QUAN.	ITEM	PART NO.
HARDWARE		
4	3/8"x17" lag bolts	HB
4	3/8" washers	HW
8	3" wood screws	WSS
WOOD		
2	4"x4"x8'-0"	FCM
2	4"x4"x7'-0"	FCM
2	3"x6"x8'-0" 1/4" plywood	FCMC
LEXAN SIGNS		
4	24"x48" Courtesies Signs: 1 - Warm-up Court 1 - Cool-down Court 2 - Strength Court	

NOTES

ASSEMBLY INSTRUCTIONS

1) PRE-ASSEMBLE THE SIGN. ATTACH CROSS MEMBER "B" TO ONE UPRIGHT POST "A" USING LAG BOLTS AND WASHERS.
2) SLIDE LEXAN SIGN AND PLYWOOD BACKING ALONG CHANNEL ON THE UPRIGHT POST "A". BE SURE TO ALIGN THE CHANNEL ON UPRIGHT POST "B". NO GLUE IS REQUIRED.
3) ATTACH OPPOSITE UPRIGHT POST "A" USING LAG BOLTS AND WASHERS.
4) PLACE ASSEMBLED APPARATUS IN HOLES.
5) POUR CONCRETE, SQUARE AND LEVEL.

STEP SIGN
INTRODUCTION SIGN
FITNESS COURT
PARTS LIST

QUAN.	ITEM	PART NO.
HARDWARE		
4	3/8"x17" lag bolts	HB
4	3/8" washers	HW
WOOD		
2	4"x4"x8'-0"	FCIN
2	4"x4"x7'-0"	FCIN
2	3"x6"x8'-0" 1/4" plywood	FCICC
LEXAN SIGN		
1	36"x48" Introduction Sign	

NOTES

ASSEMBLY INSTRUCTIONS

1) PRE-ASSEMBLE THE SIGN. ATTACH CROSS MEMBER "B" TO ONE UPRIGHT POST "A" USING LAG BOLTS AND WASHERS.
2) SLIDE LEXAN SIGN AND PLYWOOD BACKING ALONG CHANNEL ON THE UPRIGHT POST "A". BE SURE TO ALIGN THE CHANNEL ON UPRIGHT POST "B". NO GLUE IS REQUIRED.
3) ATTACH OPPOSITE UPRIGHT POST "A" USING LAG BOLTS AND WASHERS.
4) PLACE ASSEMBLED APPARATUS IN HOLES.
5) POUR CONCRETE, SQUARE AND LEVEL.

STEP SIGN
SPORT SELECTION SIGN
FITNESS COURT
PARTS LIST

QUAN.	ITEM	PART NO.
HARDWARE		
4	3/8"x17" lag bolts	HB
4	3/8" washers	HW
WOOD		
2	4"x4"x8'-0"	FCIN
2	4"x4"x7'-0"	FCIN
2	3"x6"x8'-0" 1/4" plywood	FCICC
LEXAN SIGN		
1	36"x48" Sports Selection Sign	

NOTES

ASSEMBLY INSTRUCTIONS

1) PRE-ASSEMBLE METAL HANDGRIPS AND WOOD FOOTREST TO ROCKER "A" AND TO THEIR SIDES AS SHOWN, USING LAG BOLTS AND WASHERS. APPLY TO LOCATE THE HANDGRIPS AND FOOTREST.
2) PLACE ASSEMBLED APPARATUS IN HOLES.
3) POUR CONCRETE, SQUARE AND LEVEL.

NOTE: FOR SUBSEQUENT GAMES USING WOOD POST A 6" x 6" TO A 9'-0" LONG WITH 30" BURIED AS SHOWN.

STEP GAME 1
HAMSTRING STRETCH
FITNESS COURT
PARTS LIST

QUAN.	ITEM	PART NO.
PIPE		
6	28" steel handgrips	P1
HARDWARE		
12	3/8"x17" lag bolts	HB
4	3/8"x17" lag bolts	HB
16	3/8" washers	HW
WOOD		
1	4"x4"x10'-0"	FCIN
1	4"x4"x8'-0"	FCIN
2	4"x4"x28"	FCIC

NOTES
FOR SUBSEQUENT GAMES USING WOOD POSTS

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
887 SEBASTAPOL RD
SANTA ROSA, CA 95401 (707)545-5835

SHEET NUMBER 14 OF 29

ASSEMBLY INSTRUCTIONS

1) PRE-ASSEMBLE CHEST BRACE, ATTACH HANDGRIPS TO ROCKER "A" AS SHOWN USING CARRIAGE BOLTS, WASHERS, AND NUTS.
2) ATTACH BENCH TO METAL BENCH SUPPORTS USING CARRIAGE BOLTS, WASHERS, AND NUTS.
3) PLACE ASSEMBLED APPARATUS IN HOLES.
4) POUR CONCRETE, SQUARE AND LEVEL.

STEP GAME 2
SHOULDER STRETCH
FITNESS COURT
PARTS LIST

QUAN.	ITEM	PART NO.
PIPE		
2	80" bars	P2
HARDWARE		
4	5/8"x90° carriage bolts	HC
10	5/8" washers	HCB
10	5/8"x nuts	HCB
6	3/8"x17" lag bolts	HB
WOOD		
1	4"x4"x8'-0"	FCIN
2	4"x4"x10"	FCIN

NOTES
FOR ELEMENTARY SCHOOL USE, SEE NOTE.

ASSEMBLY INSTRUCTIONS

1) PRE-ASSEMBLE TWO BENCHES, ATTACH CROSSBEAM "A" TO BENCH "B" BY DRILLING 1" HOLES AND BOLTING WITH 3/8"x17" LAG BOLTS AND WASHERS.
2) PLACE ASSEMBLED CROSSBEAM APPARATUS INTO HOLES. MAINTAIN 3" CLEARANCE BETWEEN CROSSBEAM AND GROUND.
3) PLACE METAL TEES INTO HOLES. TEES SHOULD HAVE 6" IN HEIGHT.
4) POUR CONCRETE, SQUARE AND LEVEL.

STEP GAME 3
CALF STRETCH
FITNESS COURT
PARTS LIST

QUAN.	ITEM	PART NO.
PIPE		
2	80" bars	P2
HARDWARE		
2	3/8"x17" lag bolts	HB
2	3/8" washers	HCB
4	U-brackets	UC
16	2" wood screws	WSS
WOOD		
1	4"x4"x10"	FCIN
2	4"x4"x28"	FCIN

NOTES
FOR ELEMENTARY SCHOOL USE, SEE NOTE.

ASSEMBLY INSTRUCTIONS

THIS GAME CONSISTS OF 2 METAL TEES.
1) PLACE TEES IN HOLES.
2) POUR CONCRETE AND SQUARE.

STEP GAME 4
THIGH STRETCH
FITNESS COURT
PARTS LIST

QUAN.	ITEM	PART NO.
PIPE		
2	64" bars	P7

NOTES

ASSEMBLY INSTRUCTIONS

1) PRE-ASSEMBLE END BENCH. ATTACH CROSSBEAM "A" TO BENCH "B" AS SHOWN USING CARRIAGE BOLTS, WASHERS AND NUTS.
2) PLACE ASSEMBLED APPARATUS IN HOLES.
3) POUR CONCRETE, SQUARE AND LEVEL.

STEP GAME 5
HAMSTRING STRETCH
FITNESS COURT
PARTS LIST

QUAN.	ITEM	PART NO.
PIPE		
2	28" bars	P2
HARDWARE		
4	5/8"x90° carriage bolts	HC
10	5/8" washers	HCB
10	5/8"x nuts	HCB
6	3/8"x17" lag bolts	HB
WOOD		
1	4"x12"x8'-0"	FCIA
2	6"x6"x11'-1/4"	FCIA

NOTES

ASSEMBLY INSTRUCTIONS

THIS GAME CONSISTS OF 1 WOOD POST
1) PLACE POST IN HOLE
2) POUR CONCRETE AND SQUARE.

STEP GAME 6
DOUBLE-CALF STRETCH
FITNESS COURT
PARTS LIST

QUAN.	ITEM	PART NO.
WOOD		
1	6"x6"x10'-0"	FCIA

NOTES

SECTIONS & DETAILS

GAMEFIELD FITNESS COURT

BID PACKAGE NO. 5
INSTALL THIS FITNESS COURT & GRAVEL SURFACE.

BID PACKAGE NO. 6
INSTALL 6"x6" TIMBER BORDER, GRAVEL SURFACE, DRAIN TILE & WEED BARRIER

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JAMES K. PERKINS 7-1-82 No. L0083 STATE OF INDIANA LANDSCAPE ARCHITECT

LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

JAMES K. PERKINS & ASSOC., INC.
LANDSCAPE ARCHITECTS
SITE PLANNERS
MICHIGAN CITY, INDIANA 46360

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

SECTION & DETAILS

DRAWN BY: RCR
CHECKED BY:
COMM. NO.: 8455.00
DATE: 11 NOV. 1985

REVISIONS NO. DATE

G-10

ELM ROAD 8455.00

GAME 7

QUAD STRETCH

FITNESS COURT

PARTS LIST

QUAN.	ITEM	PART NO.
PIPE		
1	84" Sch 40	P7

NOTES

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
807 SEBASTAPOL RD.
SANTA ROSA, CA 95401 (707) 545-5835

SHEET NUMBER 20 OF 29

GAME 8

CHEST STRETCH

FITNESS COURT

PARTS LIST

QUAN.	ITEM	PART NO.
WOOD		
2	4"x4"x5'-5" or 4"x4"x1'-0" or P2X4	P2X4

NOTES

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
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SHEET NUMBER 21 OF 29

GAME 9

SIT UPS

FITNESS COURT

PARTS LIST

QUAN.	ITEM	PART NO.
PIPE		
2	19" Sch 40	P5
HARDWARE		
4	5/16"x3" carriage bolts	HC
4	5/16"x4" carriage bolts	HA
4	5/16"x5" carriage bolts	HB
16	5/16" nuts	HCU
12	5/16" washers	HCW
4	3/8"x5" lag bolts	HW
4	3/8" washers	HSW
4	L-strap	PC
16	2" wood screws	HCS
WOOD		
1	6"x6"x19"	P2X6
2	4"x4"x12"	P2X4
4	4"x4"x11-1/4"	P2X4
		P2X4
		P2X4
2	2"x12"x6'-0"	P2X12
		P2X6

NOTES

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
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SHEET NUMBER 22 OF 29

GAME 10

DIPS

FITNESS COURT

PARTS LIST

QUAN.	ITEM	PART NO.
PIPE		
1	96" handrail	P6
1	84" total bars	P10
HARDWARE		
8	5/16"x3" carriage bolts	HC
8	5/16" nuts	HCU
8	5/16" washers	HCW
WOOD		
2	2"x8"x16"	P2X8

NOTES
FOR ELEMENTARY SCHOOL LOG AND NOTES.

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
807 SEBASTAPOL RD.
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SHEET NUMBER 23 OF 29

GAME 11

BODY LIFT

FITNESS COURT

PARTS LIST

QUAN.	ITEM	PART NO.
PIPE		
1	80" handrail	P8
HARDWARE		
8	3/8"x3" lag bolts	HS
8	3/8" washers	HSW
WOOD		
2	6"x6"x5'-7"	P2X6

NOTES

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
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SHEET NUMBER 24 OF 29

GAME 12

TRUNK ROLL

FITNESS COURT

PARTS LIST

QUAN.	ITEM	PART NO.
PIPE		
2	Handgrips	P20
HARDWARE		
8	1/2"x3" carriage bolts	HD
8	1/2" washers	HDW
8	1/2" nuts	HDU
WOOD		
1	6"x6"x10'-0"	P2X6

NOTES
FOR ELEMENTARY SCHOOL AND, SEE NOTES.

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
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SHEET NUMBER 25 OF 29

GAME 13

PUSH UPS

FITNESS COURT

PARTS LIST

QUAN.	ITEM	PART NO.
PIPE		
2	30" bars	P3
HARDWARE		
16	5/8"x7" lag bolts	HT
16	5/8" washers	HSW
WOOD		
1	6"x6"x7'0"	P2X6

NOTES

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
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SHEET NUMBER 26 OF 29

GAME 14

LEG LIFTS

FITNESS COURT

PARTS LIST

QUAN.	ITEM	PART NO.
HARDWARE		
4	5/8"x4" carriage bolts	HE
4	5/8"x5" carriage bolts	HF
8	5/8" nuts	HEU
4	5/8"x3" lag bolts	HS
8	5/8"x10" lag bolts	HJ
8	5/8" washers	HSW
4	L-straps	PC
16	2" wood screws	HCS
WOOD		
1	6"x6"x7'0"	P2X6
2	4"x4"x12'-0"	P2X12
4+	4"x4"x11-1/4"	P2X12
		P2X6
		P2X6
2	2"x12"x10'-0"	P2X12
		P2X6

NOTES

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
807 SEBASTAPOL RD.
SANTA ROSA, CA 95401 (707) 545-5835

SHEET NUMBER 27 OF 29

GAME 15

PULL UPS

FITNESS COURT

PARTS LIST

QUAN.	ITEM	PART NO.
PIPE		
3	60" bars	P6
HARDWARE		
24	5/8"x7" lag bolts	HT
24	5/8" washers	HSW
WOOD		
3	6"x6"x10'0"	P2X6

NOTES
FOR ELEMENTARY SCHOOL LOG AND NOTE.

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
807 SEBASTAPOL RD.
SANTA ROSA, CA 95401 (707) 545-5835

SHEET NUMBER 28 OF 29

GAME 16

LEG PRESS

FITNESS COURT

PARTS LIST

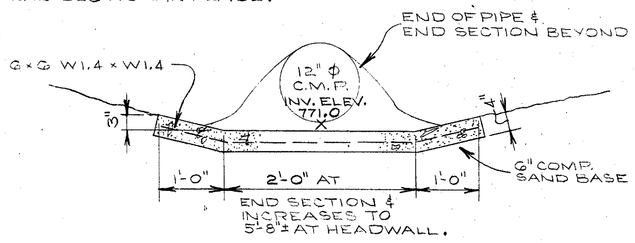
QUAN.	ITEM	PART NO.
PIPE		
1	72" Pole	P9
WOOD		
1	6"x6"x10'-0"	P2X6
2	4"x4"x10'-0"	P2X6

NOTES
FOR ELEMENTARY SCHOOL LOG AND NOTE.

GAMEFIELD FITNESS COURT
GAMEFIELD PRODUCTION FACILITY
807 SEBASTAPOL RD.
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SHEET NUMBER 29 OF 29

SET TOE PLATE 6" INTO END OF CONC. FLUME-TO ANCHOR END SECTION IN PLACE.



SECTION 1

NO SCALE

SECTIONS & DETAILS

GAMEFIELD FITNESS COURT

BID PACKAGE NO. 5

INSTALLATION OF ADULT FITNESS COURSE

BID PACKAGE NO. 6

INSTALLATION OF 6"x6" TIMBER EDGING AROUND FITNESS COURT. DRAINAGE TUBING & WEED BARRIER.

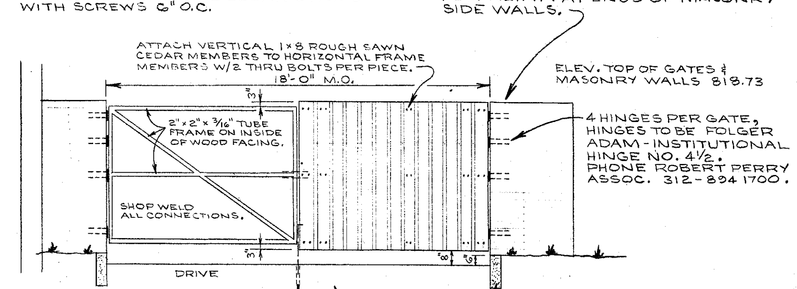
PAINT STEEL TUBE FRAME W/ 2 COATS OF RUST INHIBITING PAINT - DARK BROWN. SEE SPEC. SEC. 09900.

PAINT WOOD PARTS OF GATES W/ 2 COATS OF CLEAR WOOD PRESERVATIVE.

ALL GATE HARDWARE TO BE GALVANIZED.

AT ALL JOINTS BETWEEN 1"x8 CEDAR MEMBERS ATTACH 1"x2 CEDAR STRIPS WITH SCREWS 9" O.C.

REFER TO STRUCTURAL PLANS FOR REINF. AT ENDS OF MASONRY SIDE WALLS.



ELEVATION OF GATES AT SERVICE YARD

SCALE : ¼" = 1'-0"

GATES TO SWING OUT FROM SERVICE YARD.

AT HINGE LEAVES NEXT TO MAS. WALLS, WELD ½" ϕ X 10" LONG STL. RODS (2) PER LEAF IN OUTER HOLES THEN ANCHOR INTO WALL. AT HINGE LEAVES NEXT TO TUBE FRAME - THRU BOLT W/ FLAT HEAD BOLTS.

REFER TO SEC. 7 ON SHT. A-19 FOR DETAIL OF MASONRY WALL AROUND SERVICE YARD.

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JAMES K. PERKINS 7-1-82 No. LO083 STATE OF INDIANA LANDSCAPE ARCHITECT

LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

JAMES K. PERKINS & ASSOC., INC.
LANDSCAPE ARCHITECTS
SITE PLANNERS
MICHIGAN CITY, INDIANA 46360

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

SECTIONS & DETAILS

DRAWN BY: BKR
CHECKED BY:
COMM. NO.: 8455.00
DATE: 11 NOV. 1985
REVISIONS NO. DATE

G-11

ELM ROAD 8455.00

SEE SHEET G-13 FOR THIS AREA

2	MATCH
1	LINE

AREA 1 - ALTERNATE BID

AREA 4 - BASE BID

AREA 4 - BASE BID

AREA 1 - ALTERNATE BID

ELM ROAD

2460'±

2V2" ROUGH IN 3' BELOW GRADE 100 GPM @ 40 PSI

1 VP

1 VPTM

6 I 36B 40G

5 I 6BG

15 6BG

23 36B 40G.

11 36B 40G.

5 GTG

1 GTG

TREE GRATE (SEE SHEET G-9)

ARS 46 TMW

H 6BG

VINYL EDGING

LAWN

FLAGPOLE

LANDSCAPE CONT. TO INSTALL BLACK VINYL EDGING BETWEEN ALL SHRUB BEDS & LAWN AREA. USE VALLEY VIEW BRAND OR EQUIV. VALLEY VIEW SPECIALTIES CO. 1-312-597-0662 (HEAVY DUTY BLACK DIAMOND) INSTALL TO MANUF. SPECS.

AREA 4/BASE BID - AREA SOUTH & EAST OF PARKING LOT REQUIRES ONLY 1/2 CIRCLE ROTARY HEADS LOCATED ADJACENT TO CURB. THE HEADS SHALL BE LOCATED IN SUCH A MANNER AS TO NOT SPRAY ONTO PAVED AREAS.

300'±

FITNESS COURT

16 FAA

8 PN

9 MG

5 ARS

PUMP HOUSE

EX. VEGETATION

IRRIGATION ALTERNATE LIMIT LINE TO FOLLOW EXISTING VEGETATION LINE SOUTH TO EX. SWALE.

HEADWALL

EXTEND IRRIGATION IN ALTERNATE BID SOUTH TO CENTERLINE OF SWALE. REFER TO SHEET G-4 FOR AREA NOT SHOWN ON THIS SHEET

LIMIT OF IRRIGATION

STREAM

EX. VEGETATION

NORTH

IRRIGATION PLAN - PART 1

SCALE: 1"=20'0"

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JAMES R. PERKINS REGISTERED LANDSCAPE ARCHITECT STATE OF INDIANA

LEE BROCKWAY REGISTERED ARCHITECT STATE OF INDIANA

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IRRIGATION PLAN - PART 1

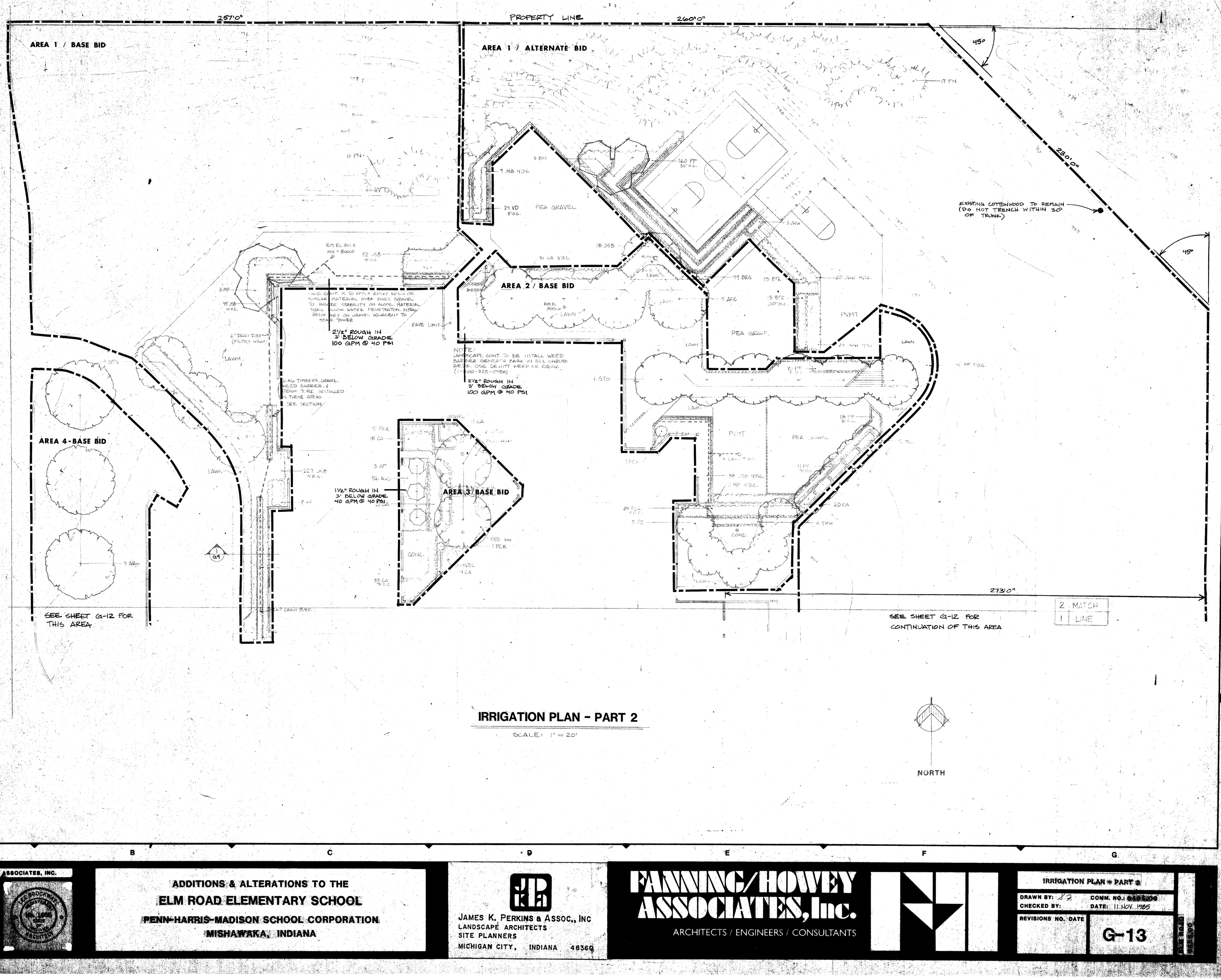
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CHECKED BY: DATE: 11 NOV. 1985

REVISIONS NO. DATE

G-12

17

18



IRRIGATION PLAN - PART 2

SCALE: 1" = 20'

NORTH

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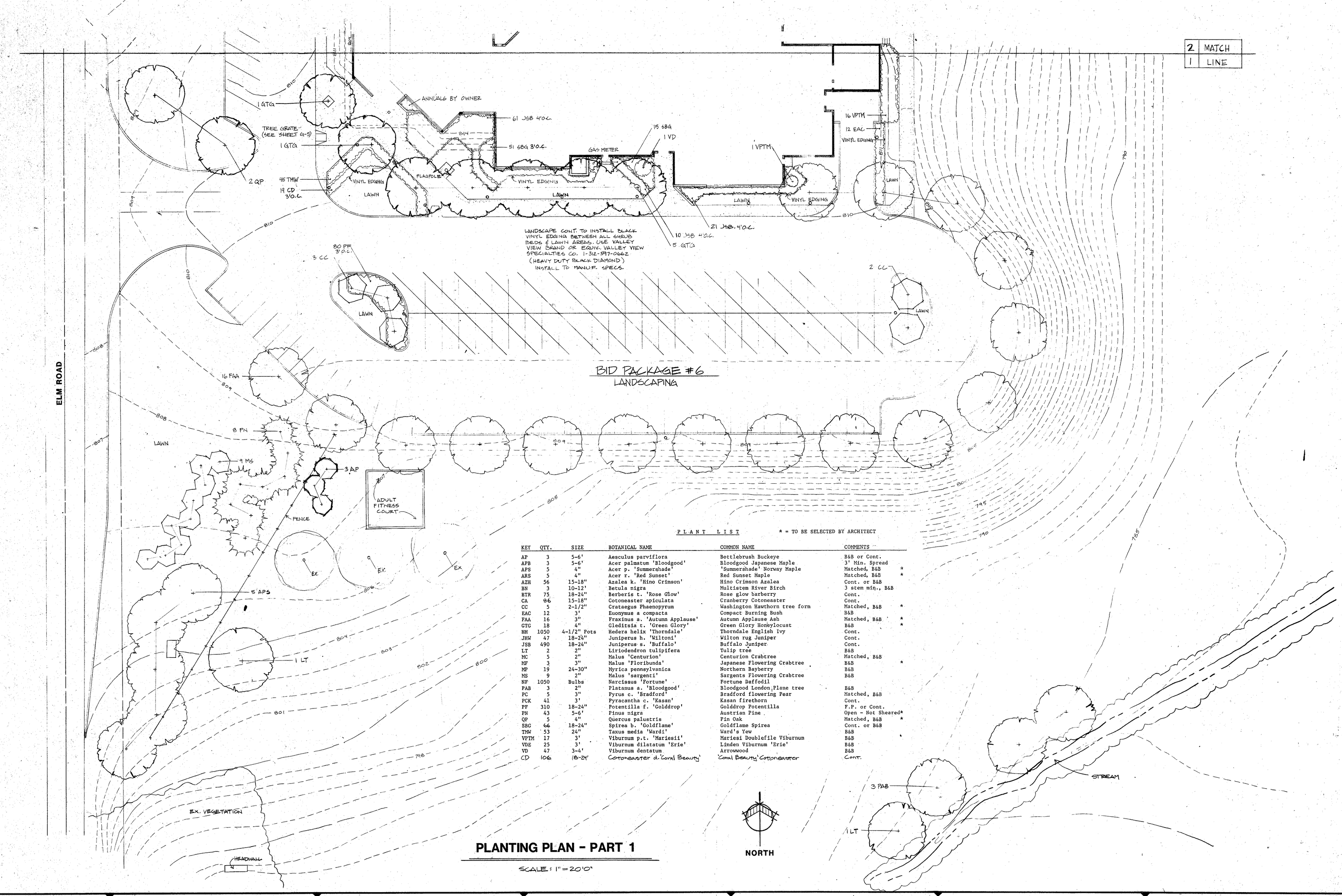
ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
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MISHAWAKA, INDIANA

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IRRIGATION PLAN - PART 2
DRAWN BY: JJ COMM. NO.:
CHECKED BY: DATE: 11 NOV. 1985
REVISIONS NO. DATE

G-13



PLANT LIST

* = TO BE SELECTED BY ARCHITECT

KEY	QTY.	SIZE	BOTANICAL NAME	COMMON NAME	COMMENTS
AP	3	5-6'	Aesculus parviflora	Bottlebrush Buckeye	B&B or Cont.
APB	3	5-6'	Acer palmatum 'Bloodgood'	Bloodgood Japanese Maple	3' Min. Spread
APS	5	4"	Acer p. 'Summershade'	'Summershade' Norway Maple	Matched, B&B *
ARS	5	4"	Acer r. 'Red Sunset'	Red Sunset Maple	Matched, B&B *
AZH	56	15-18"	Azalea k. 'Hino Crimson'	Hino Crimson Azalea	Cont. or B&B
BN	3	10-12'	Betula nigra	Multistem River Birch	3 stem min., B&B
BTR	75	18-24"	Berberis t. 'Rose Glow'	Rose glow barberry	Cont.
CA	96	15-18"	Cotoneaster apiculata	Cranberry Cotoneaster	Cont.
CC	5	2-1/2"	Crataegus Phaenopyrum	Washington Hawthorn tree form	Matched, B&B *
EAC	12	3'	Euonymus a compacta	Compact Burning Bush	B&B
FAA	16	3"	Fraxinus a. 'Autumn Applause'	Autumn Applause Ash	Matched, B&B *
GTG	18	4"	Gleditsia t. 'Green Glory'	Green Glory Honeylocust	B&B *
HH	1050	4-1/2" Pots	Hedera helix 'Thorndale'	Thorndale English Ivy	Cont.
JHW	47	18-24"	Juniperus h. 'Wiltoni'	Wilton rug Juniper	Cont.
JSB	490	18-24"	Juniperus s. 'Buffalo'	Buffalo Juniper	Cont.
LT	2	2"	Liriodendron tulipifera	Tulip tree	B&B
MC	5	2"	Malus 'Centurion'	Centurion Crabtree	Matched, B&B
MF	3	3"	Malus 'Floribunda'	Japanese Flowering Crabtree	B&B *
MP	19	24-30"	Myrica pennsylvanica	Northern Bayberry	B&B
MS	9	2"	Malus 'sargenti'	Sargents Flowering Crabtree	B&B
NF	1050	Bulbs	Narcissus 'Fortune'	Fortune Daffodil	
PAB	3	2"	Platanus a. 'Bloodgood'	Bloodgood London Plane tree	B&B
PC	5	3"	Pyrus c. 'Bradford'	Bradford flowering Pear	Matched, B&B
PCK	41	3'	Pyracantha c. 'Kasan'	Kasan firethorn	Cont.
PF	310	18-24"	Potentilla f. 'Golddrop'	Golddrop Potentilla	F.P. or Cont.
PN	43	5-6'	Pinus nigra	Austrian Pine	Open - Not Sheared*
QP	5	4"	Quercus palustris	Pin Oak	Matched, B&B *
SBG	66	18-24"	Spirea b. 'Goldflame'	Goldflame Spirea	Cont. or B&B
TMW	53	24"	Taxus media 'Wardi'	Ward's Yew	B&B
VPTM	17	3'	Viburnum p.t. 'Mariesii'	Mariesi Doublefile Viburnum	B&B
VDE	25	3'	Viburnum dilatatum 'Erie'	Linden Viburnum 'Erie'	B&B
VD	47	3-4'	Viburnum dentatum	Arrowwood	B&B
CD	106	18-24"	Cotoneaster d. 'Coral Beauty'	'Coral Beauty' Cotoneaster	Cont.

PLANTING PLAN - PART 1

SCALE: 1" = 20'-0"

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JAMES K. PERKINS 1-1-82 No. LO083 REGISTERED LANDSCAPE ARCHITECT INDIANA

LEE BROCKWAY REGISTERED No. 7666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
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PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

JAMES K. PERKINS & ASSOC., INC.
LANDSCAPE ARCHITECTS
SITE PLANNERS
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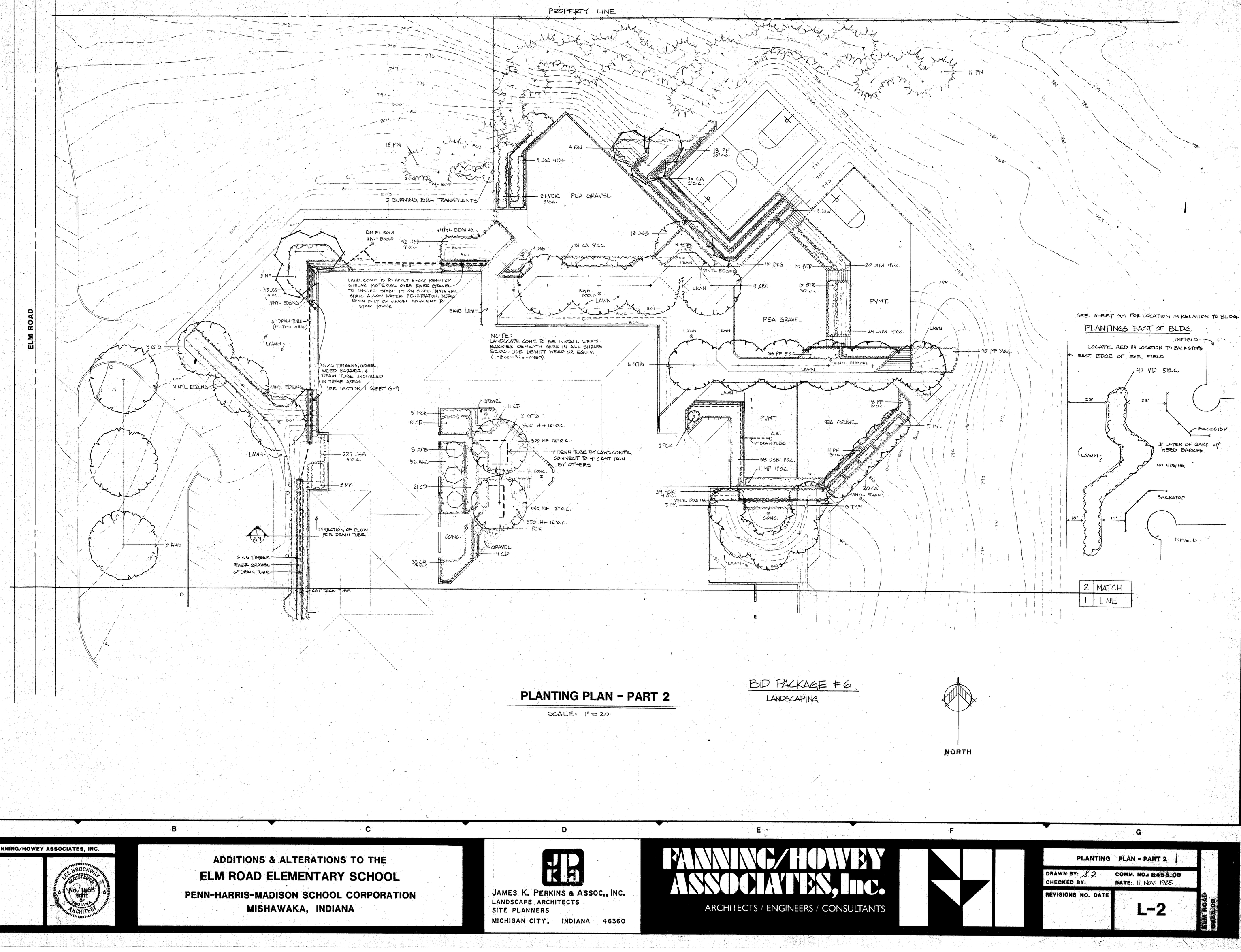
PLANTING PLAN - PART 1

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COMM. NO.: 8456.00
DATE: 11 NOV. 1985

REVISIONS NO. DATE

L-1

ELM ROAD 8456.00



PLANTING PLAN - PART 2

SCALE: 1" = 20'

BID PACKAGE #6
LANDSCAPING

NORTH

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JAMES K. PERKINS 1-1-82 No. LA0063 INDIANA LANDSCAPE ARCHITECT

LEE BROCKWAY REGISTERED No. 10606 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

JAMES K. PERKINS & ASSOC., INC.
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PLANTING PLAN - PART 2

DRAWN BY: JJ2 COMM. NO.: 8456.00
CHECKED BY: DATE: 11 NOV. 1985

REVISIONS NO. DATE

L-2

ELM ROAD 8456.00

GENERAL DEMOLITION NOTES

1. THESE GENERAL NOTES APPLY TO ALL CONTRACTORS RESPONSIBLE FOR ANY DEMOLITION. ADDITIONAL DEMOLITION WORK IS ASSIGNED IN THE SITE, MECHANICAL AND ELECTRICAL PORTIONS OF THE DRAWINGS.

2. SUBMITTALS:
   A) DEMOLITION SCHEDULE: EACH CONTRACTOR RESPONSIBLE FOR DEMOLITION SHALL SUBMIT TWO (2) COPIES OF PROPOSED METHODS AND OPERATIONS OF DEMOLITION TO THE C.M. FOR REVIEW PRIOR TO THE START OF WORK. INCLUDE IN THE SCHEDULE THE COORDINATION FOR SHUT-OFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.

3. JOB CONDITIONS:
   A) CONDITION OF STRUCTURES: THE OWNER ASSUMES NO RESPONSIBILITY FOR THE ACTUAL CONDITION OF THE AREAS TO BE DEMOLISHED. CONDITIONS EXISTING AND AS QUALIFIED ON THE DRAWINGS AT THE TIME OF INSPECTION FOR BIDDING PURPOSES WILL BE MAINTAINED BY THE OWNER INSOFAR AS PRACTICABLE. HOWEVER, VARIATIONS MAY OCCUR BY OWNER'S REMOVAL OPERATIONS PRIOR TO THE START OF THE WORK.
   B) SALVAGING: CERTAIN ITEMS WILL BE SALVAGED BY THE OWNER PRIOR TO START OF WORK. REFER TO THE DRAWINGS FOR EXTENT OF WORK UNDER THIS HEADING.
   C) PARTIAL REMOVAL: DEMOLITION ITEMS OF SALVAGEABLE VALUE TO THE VARIOUS CONTRACTORS, WHICH ARE NOT LISTED TO BE RETAINED BY THE OWNER, MAY BE REMOVED FROM THE STRUCTURE AS THE WORK PROGRESSES. SALVAGED ITEMS MUST BE TRANSPORTED FROM THE SITE AS THEY ARE REMOVED. STORAGE OR SALE OF REMOVED ITEMS ON THE SITE WILL NOT BE PERMITTED.

4. PROTECTIONS:
   A) PROVIDE COVERED PASSAGEWAYS, BARRICADES OR OTHER TYPES OF PROTECTION NECESSARY TO ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREAS OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT DAMAGE BY FALLING DEBRIS OR OTHER CAUSE TO ADJACENT FACILITIES AS WELL AS PERSONS.
   B) PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT OR SETTLEMENT OR COLLAPSE OF STRUCTURE.
   C) RESTORE ANY IMPROVEMENTS DAMAGED BY THIS WORK TO THEIR ORIGINAL CONDITION AS ACCEPTABLE TO THE OWNER OR OTHER PARTIES OR AUTHORITIES HAVING JURISDICTION.

5. UTILITIES:
   A) ALL UTILITIES SHALL BE REROUTED PRIOR TO START OF DEMOLITION. COORDINATE WITH THE WORK UNDER DIVISIONS 15 AND 16.

6. DEMOLITION CLEANLINESS MEASURES:
   A) POLLUTION CONTROLS: USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR, TO THE LOWEST LEVEL OF AIR POLLUTION PRACTICAL FOR THE CONDITION OF WORK. COMPLY WITH THE GOVERNING REGULATIONS.
   B) CLEAN AREA OF ALL DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS, AS DIRECTED BY THE C.M. RETURN AREAS TO CONDITION EXISTING PRIOR TO THE START OF WORK.

7. DISPOSAL OF DEMOLISHED MATERIALS:
   A) GENERAL: REMOVE FROM THE SITE ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
   B) STORAGE OR SALE OF REMOVED MATERIALS WILL NOT BE PERMITTED ON THE SITE.
   C) BURNING OF REMOVED MATERIALS WILL NOT BE PERMITTED ON THE SITE.

SPECIFIC DEMOLITION NOTES

1. REMOVE THIS PORTION OF EXISTING BUILDING INCLUDING, BUT NOT LIMITED TO, ROOF CONSTRUCTION, ROOF STRUCTURE, WALL CONSTRUCTION, FLOOR CONSTRUCTION, AND FOUNDATION WALLS.
2. REMOVE THIS PORTION OF EXISTING BUILDING INCLUDING, BUT NOT LIMITED TO, ROOF CONSTRUCTION, ROOF STRUCTURE, WALL CONSTRUCTION, FLOOR CONSTRUCTION, AND FOUNDATION WALLS. EXISTING FOUNDATION WALLS OUTSIDE OF EXTERIOR WALLS OF NEW CONSTRUCTION CAN BE REMOVED TO A DEPTH OF 3'-0" BELOW NEW GRADES SHOWN ON GRADING PLANS.
3. REMOVE THIS PORTION OF EXISTING BUILDING INCLUDING, BUT NOT LIMITED TO, ROOF CONSTRUCTION, ROOF STRUCTURE, WALL CONSTRUCTION, FLOOR CONSTRUCTION, AND FOUNDATION WALLS. SALVAGE EXISTING STEEL ROOF JOISTS AND REUSE FOR ROOF STRUCTURE OF NEW CONSTRUCTION IN THIS AREA.
4. BUILDING DEMOLITION IN THIS AREA AS REQUIRED BY NOTE #2 ALSO INCLUDES DEMOLITION OF LOCKER ROOMS BELOW STAGE. BREAK UP EXISTING LOCKER ROOM FLOOR SLAB TO RECEIVE COMPACTED FILL.
5. REMOVE EXISTING EXTERIOR WALL CONSTRUCTION INCLUDING CONCRETE BLOCK, FACE BRICK, STONE SILL, ALUMINUM WINDOWS, WOOD SILL AND TRIM, GLASS BLOCK, AND WOOD FASCIA BOARDS AND BLOCKING. EXISTING STEEL COLUMNS TO REMAIN UNLESS NOTED TO BE REMOVED ELSEWHERE.
6. REMOVE EXISTING EXTERIOR WALL CONSTRUCTION INCLUDING CONCRETE BLOCK, FACEBRICK, STONE SILL, ALUMINUM WINDOWS, WOOD SILL AND TRIM, WOOD FASCIA BOARDS AND BLOCKING, WOOD SOFFIT, STEEL COLUMNS, BASE PLATES, SETTING PLATES, GROUT AND BOLTS TO TOP OF FOUNDATION WALL.
7. REMOVE EXISTING ROOF CONSTRUCTION AND ROOF STRUCTURE.
8. REMOVE EXISTING ROOF CONSTRUCTION FOR ENTIRE BUILDING INCLUDING BUILT-UP ROOF, INSULATION, GRAVEL STOPS, WOOD BLOCKING, CURBS AND FLASHINGS.
9. REMOVE EXISTING CANOPY CONSTRUCTION INCLUDING ROOF CONSTRUCTION, ROOF STRUCTURE, COLUMNS, AND FOUNDATIONS.
10. BREAK UP EXISTING FLOOR SLAB TO RECEIVE COMPACTED FILL.
11. REMOVE EXISTING REINFORCED CONCRETE COLUMN.
12. REMOVE EXISTING CHIMNEY CONSTRUCTION ABOVE TOP OF EXISTING REINFORCED CONCRETE ROOF SLAB
13. REMOVE EXISTING REINFORCED CONCRETE STAIRS AND LANDING. REMOVE EXISTING HANDRAILS.
14. REMOVE EXISTING METAL FRAMED STAIRS WITH CONCRETE TREADS. REMOVE EXISTING HANDRAILS.
15. REMOVE EXISTING WOOD STAIRS AND HANDRAILS.
16. REMOVE EXISTING EXTERIOR WALL CONSTRUCTION INCLUDING CONCRETE BLOCK, FACEBRICK, STONE SILL, ALUMINUM WINDOWS, WOOD FASCIA BOARDS AND BLOCKING, AND 12" CONCRETE FOUNDATION WALL FROM EXISTING ROOF JOIST BEARING DOWN TO 108'-8" (8" BELOW EXISTING FLOOR SLAB).
17. REMOVE EXISTING CONCRETE FLOOR SLAB.
18. REMOVE EXISTING FOUNDATION WALL TO 5-3/8" BELOW FLOOR SLAB TO EAST. SEE RELATED DETAIL.
19. REMOVE EXISTING FACEBRICK.
20. REMOVE EXISTING 4" MASONRY WALL.
21. REMOVE EXISTING 8" MASONRY WALL.
22. REMOVE EXISTING 12-1/2" MASONRY WALL.
23. REMOVE EXISTING METAL LOCKERS, 6" H. x 1'-4" D., CONCRETE BASE, AND 3/4" METAL LATH AND PLASTER BULKHEAD.
24. REMOVE ALL FLOOR FINISHES AND BASES THROUGHOUT ENTIRE BUILDING.
25. REMOVE ALL CEILING AND SUSPENSION SYSTEMS THROUGHOUT ENTIRE BUILDING.
26. REMOVE EXISTING DOOR(S) AND FRAME.
27. REMOVE EXISTING DOOR(S), FRAME, AND SIDELIGHTS(S).
28. REMOVE EXISTING ALUMINUM WINDOW UNIT.
29. REMOVE EXISTING ALUMINUM WINDOW FRAME, WOOD TRIM AND BLOCKING, AND CONCRETE MASONRY BASE UNIT.
30. REMOVE EXISTING WALL CONSTRUCTION INCLUDING CONCRETE BLOCK, FACEBRICK, ALUMINUM WINDOW FRAME, STEEL ANGLE AND CHANNEL FRAMING AND BRACKETS, AND WOOD FASCIA BOARDS AND BLOCKING.
31. REMOVE EXISTING 10" MASONRY WALL.
32. REMOVE EXISTING ROLLING SHUTTER, STEEL LINTEL AND JAMB ANGLES, WOOD BLOCKING AND TRIM, AND STAINLESS STEEL COUNTER.
33. REMOVE EXISTING SHELVES AND SUPPORTS.
34. REMOVE EXISTING FOLDING GATE AND TRACK.
35. REMOVE EXISTING METAL CABINETS IN THIS ROOM.

36. REMOVE ALL CHALKBOARDS, TACKBOARDS, FLAG HOLDERS, AND PROJECTION SCREEN BRACKETS THROUGHOUT ENTIRE BUILDING.
37. REMOVE ALL EXISTING METAL TOILET PARTITIONS IN THIS ROOM.
38. REMOVE ALL EXISTING TOILET ACCESSORIES IN THIS ROOM.
39. REMOVE ALL EXISTING CERAMIC WALL, BASE, AND FLOOR TILE, GROUT, ADHESIVES, AND CEMENT BEDS DOWN TO CONCRETE FLOOR SLAB AND CONCRETE MASONRY WALLS IN THIS ROOM.
40. REMOVE EXISTING PLAQUE AND RELOCATE AS DIRECTED BY ARCHITECT.

UNIT B
UNIT A

UNIT B
UNIT A

DEMOLITION PLAN-UNIT A

SCALE: 1/8"=1'0"

NORTH

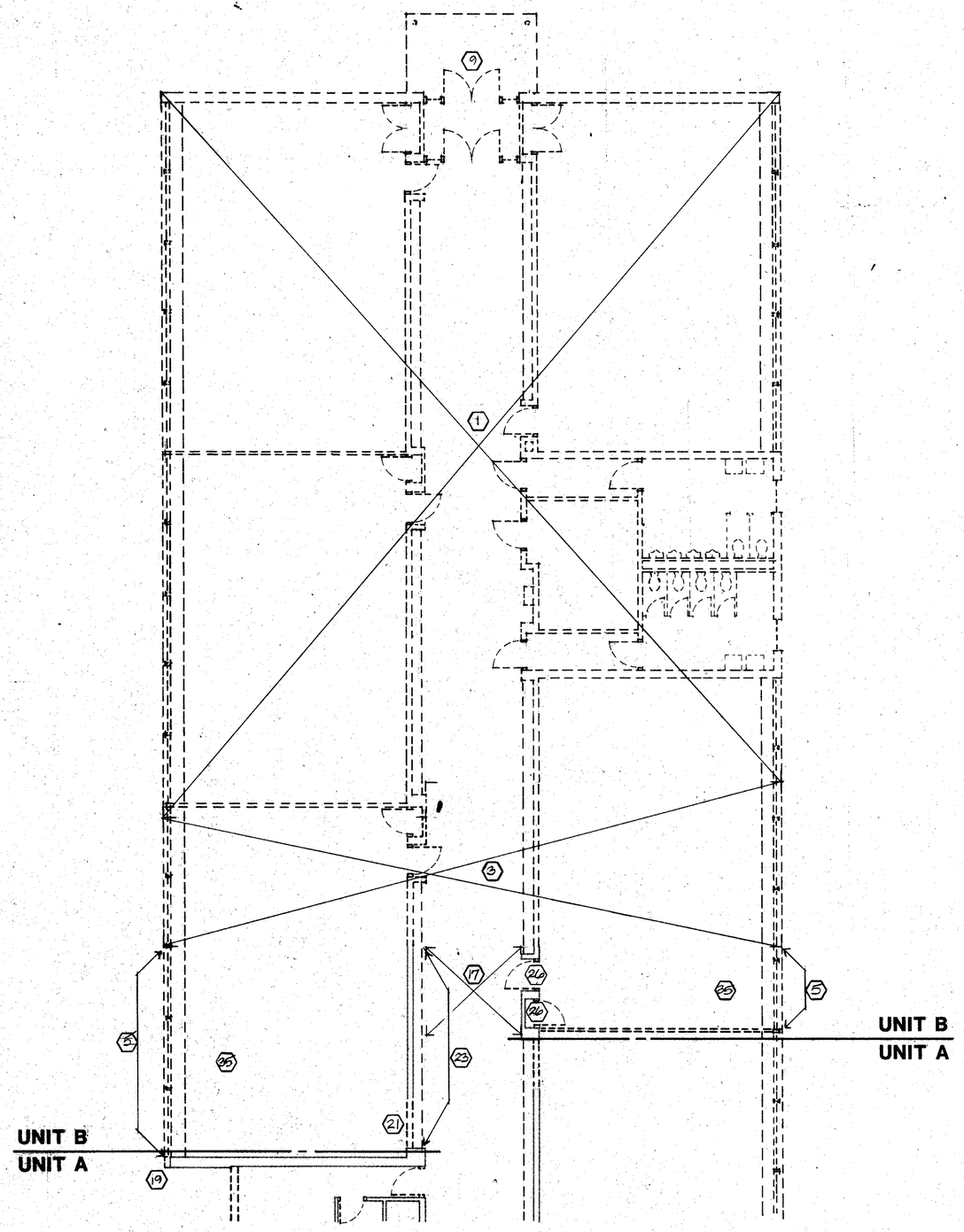
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MISHAWAKA, INDIANA

FANNING/HOWEY ASSOCIATES, Inc.
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DEMOLITION PLAN-UNIT A
DRAWN BY: db
CHECKED BY: f
COMM. NO.: 8455.00
DATE: 11 Nov. 1985
REVISIONS NO. DATE
AD-1



DEMOLITION PLAN-UNIT B

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

NORTH

GENERAL DEMOLITION NOTES

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   C) RESTORE ANY IMPROVEMENTS DAMAGED BY THIS WORK TO THEIR ORIGINAL CONDITION AS ACCEPTABLE TO THE OWNER OR OTHER PARTIES OR AUTHORITIES HAVING JURISDICTION.

5. UTILITIES:
   A) ALL UTILITIES SHALL BE REROUTED PRIOR TO START OF DEMOLITION. COORDINATE WITH THE WORK UNDER DIVISIONS 15 AND 16.

6. DEMOLITION CLEANLINESS MEASURES:
   A) POLLUTION CONTROLS: USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR, TO THE LOWEST LEVEL OF AIR POLLUTION PRACTICAL FOR THE CONDITION OF WORK. COMPLY WITH THE COVERNING REGULATIONS.
   B) CLEAN AREA OF ALL DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS, AS DIRECTED BY THE C.M. RETURN AREAS TO CONDITION EXISTING PRIOR TO THE START OF WORK.

7. DISPOSAL OF DEMOLISHED MATERIALS:
   A) GENERAL: REMOVE FROM THE SITE ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
   B) STORAGE OR SALE OF REMOVED MATERIALS WILL NOT BE PERMITTED ON THE SITE.
   C) BURNING OF REMOVED MATERIALS WILL NOT BE PERMITTED ON THE SITE.

SPECIFIC DEMOLITION NOTES

1. REMOVE THIS PORTION OF EXISTING BUILDING INCLUDING, BUT NOT LIMITED TO, ROOF CONSTRUCTION, ROOF STRUCTURE, WALL CONSTRUCTION, FLOOR CONSTRUCTION, AND FOUNDATION WALLS.
2. REMOVE THIS PORTION OF EXISTING BUILDING INCLUDING, BUT NOT LIMITED TO, ROOF CONSTRUCTION, ROOF STRUCTURE, WALL CONSTRUCTION, FLOOR CONSTRUCTION, AND FOUNDATION WALLS. EXISTING FOUNDATION WALLS OUTSIDE OF EXTERIOR WALLS OF NEW CONSTRUCTION CAN BE REMOVED TO A DEPTH OF 2'-0" BELOW NEW GRADES SHOWN ON GRADING PLANS.
3. REMOVE THIS PORTION OF EXISTING BUILDING INCLUDING, BUT NOT LIMITED TO, ROOF CONSTRUCTION, ROOF STRUCTURE, WALL CONSTRUCTION, FLOOR CONSTRUCTION, AND FOUNDATION WALLS. SALVAGE EXISTING STEEL ROOF JOISTS AND REUSE FOR ROOF STRUCTURE OF NEW CONSTRUCTION IN THIS AREA.
4. BUILDING DEMOLITION IN THIS AREA AS REQUIRED BY NOTE #2 ALSO INCLUDES DEMOLITION OF LOCKER ROOMS BELOW STAGE. BREAK UP EXISTING LOCKER ROOM FLOOR SLAB TO RECEIVE COMPACTED FILL.
5. REMOVE EXISTING EXTERIOR WALL CONSTRUCTION INCLUDING CONCRETE BLOCK, FACE BRICK, STONE SILL, ALUMINUM WINDOWS, WOOD SILL AND TRIM, GLASS BLOCK, AND WOOD FASCIA BOARDS AND BLOCKING. EXISTING STEEL COLUMNS TO REMAIN UNLESS NOTED TO BE REMOVED ELSEWHERE.
6. REMOVE EXISTING EXTERIOR WALL CONSTRUCTION INCLUDING CONCRETE BLOCK, FACEBRICK, STONE SILL, ALUMINUM WINDOWS, WOOD SILL AND TRIM, WOOD FASCIA BOARDS AND BLOCKING, WOOD SOFFIT, STEEL COLUMNS, BASE PLATES, SETTING PLATES, GROUT AND BOLTS TO TOP OF FOUNDATION WALL.
7. REMOVE EXISTING ROOF CONSTRUCTION AND ROOF STRUCTURE.
8. REMOVE EXISTING ROOF CONSTRUCTION FOR ENTIRE BUILDING INCLUDING BUILT-UP ROOF, INSULATION, GRAVEL STOPS, WOOD BLOCKING, CURBS AND FLASHINGS.
9. REMOVE EXISTING CANOPY CONSTRUCTION INCLUDING ROOF CONSTRUCTION, ROOF STRUCTURE, COLUMNS, AND FOUNDATIONS.
10. BREAK UP EXISTING FLOOR SLAB TO RECEIVE COMPACTED FILL.
11. REMOVE EXISTING REINFORCED CONCRETE COLUMN.
12. REMOVE EXISTING CHIMNEY CONSTRUCTION ABOVE TOP OF EXISTING REINFORCED CONCRETE ROOF SLAB.
13. REMOVE EXISTING REINFORCED CONCRETE STAIRS AND LANDING. REMOVE EXISTING HANDRAILS.
14. REMOVE EXISTING METAL FRAMED STAIRS WITH CONCRETE TREADS. REMOVE EXISTING HANDRAILS.
15. REMOVE EXISTING WOOD STAIRS AND HANDRAILS.
16. REMOVE EXISTING EXTERIOR WALL CONSTRUCTION INCLUDING CONCRETE BLOCK, FACEBRICK, STONE SILL, ALUMINUM WINDOWS, WOOD FASCIA BOARDS AND BLOCKING, AND 12" CONCRETE FOUNDATION WALL FROM EXISTING ROOF JOIST BEARING DOWN TO 108'-8" (8" BELOW EXISTING FLOOR SLAB).
17. REMOVE EXISTING CONCRETE FLOOR SLAB.
18. REMOVE EXISTING FOUNDATION WALL TO 5-3/8" BELOW FLOOR SLAB TO EAST. SEE RELATED DETAIL.
19. REMOVE EXISTING FACEBRICK.
20. REMOVE EXISTING 4" MASONRY WALL.
21. REMOVE EXISTING 8" MASONRY WALL.
22. REMOVE EXISTING 12-1/2" MASONRY WALL.
23. REMOVE EXISTING METAL LOCKERS, 6" H. x 1'-4" D., CONCRETE BASE, AND 3/4" METAL LATH AND PLASTER BULKHEAD.
24. REMOVE ALL FLOOR FINISHES AND BASES THROUGHOUT ENTIRE BUILDING.
25. REMOVE ALL CEILING AND SUSPENSION SYSTEMS THROUGHOUT ENTIRE BUILDING.
26. REMOVE EXISTING DOOR(S) AND FRAME.
27. REMOVE EXISTING DOOR(S), FRAME, AND SIDELIGHTS(S).
28. REMOVE EXISTING ALUMINUM WINDOW UNIT.
29. REMOVE EXISTING ALUMINUM WINDOW FRAME, WOOD TRIM AND BLOCKING, AND CONCRETE MASONRY BASE UNIT.
30. REMOVE EXISTING WALL CONSTRUCTION INCLUDING CONCRETE BLOCK, FACEBRICK, ALUMINUM WINDOW FRAME, STEEL ANGLE AND CHANNEL FRAMING ALL POCKETS, AND WOOD FASCIA BOARDS AND BLOCKING.
31. REMOVE EXISTING 10" MASONRY WALL.
32. REMOVE EXISTING ROLLING SHUTTER, STEEL LINTEL AND JAMB ANGLES, WOOD BLOCKING AND TRIM, AND STAINLESS STEEL COUNTER.
33. REMOVE EXISTING SHELVES AND SUPPORTS.
34. REMOVE EXISTING FOLDING GATE AND TRACK.
35. REMOVE EXISTING METAL CABINETS IN THIS ROOM.
36. REMOVE ALL CHALKBOARDS, TACKBOARDS, FLAG HOLDERS, AND PROJECTION SCREEN BRACKETS THROUGHOUT ENTIRE BUILDING.
37. REMOVE ALL EXISTING METAL TOILET PARTITIONS IN THIS ROOM.
38. REMOVE ALL EXISTING TOILET ACCESSORIES IN THIS ROOM.
39. REMOVE ALL EXISTING CERAMIC WALL, BASE, AND FLOOR TILE, GROUT, ADHESIVES, AND CEMENT BEDS DOWN TO CONCRETE FLOOR SLAB AND CONCRETE MASONRY WALLS IN THIS ROOM.
40. REMOVE EXISTING PLAQUE AND RELOCATE AS DIRECTED BY ARCHITECT.

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

FANNING/HOWEY ASSOCIATES, Inc.
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DEMOLITION PLAN-UNIT B

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AD-2

ELM ROAD ELEMENTARY SCHOOL

ROOM LEGEND

UNIT A

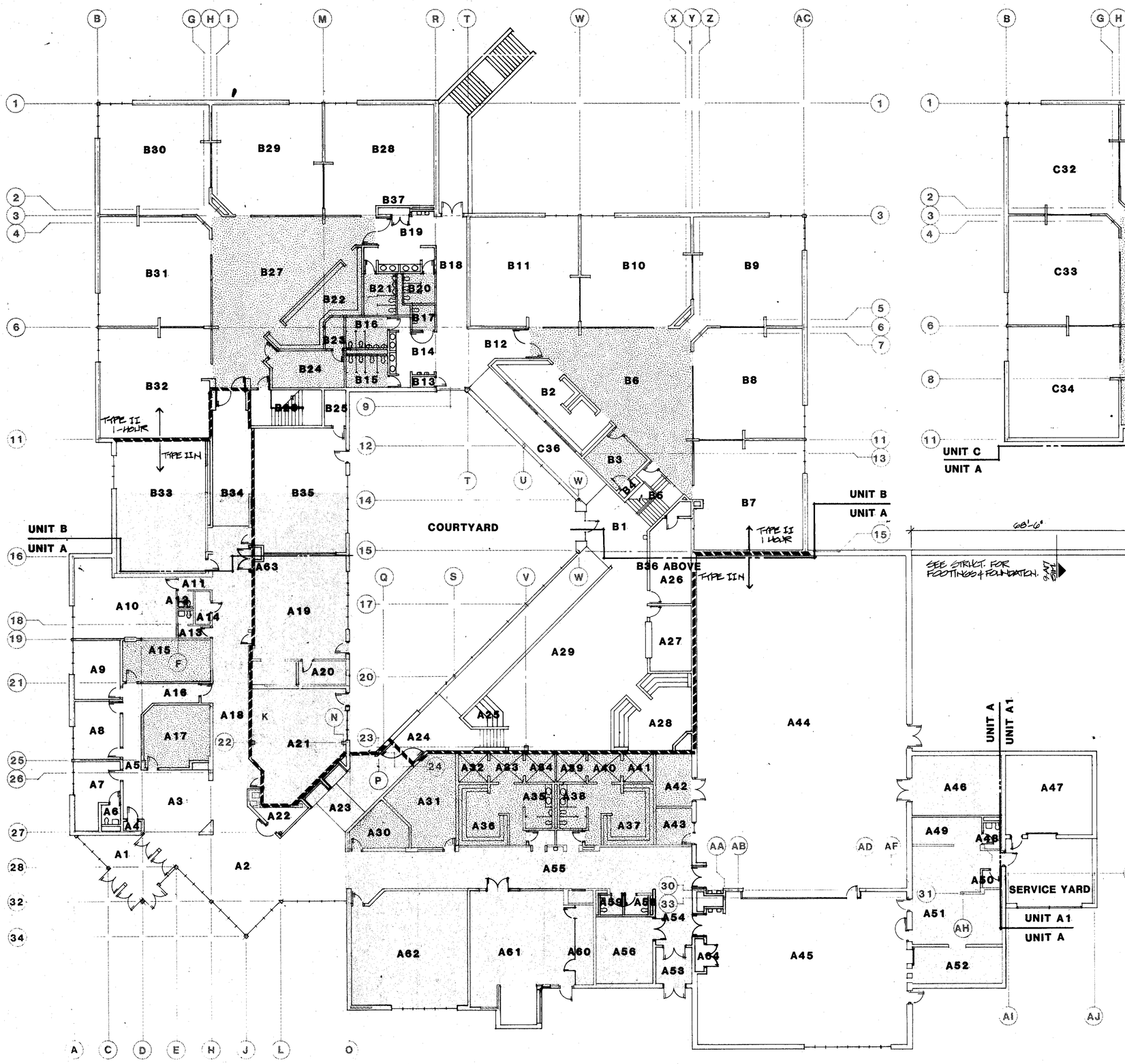
ROOM NO.	ROOM NAME	AREA SQ.FT.	CEILING HGT. (AFF)
A1	VESTIBULE	247	8'-8"
A2	ENTRY	920	VARIES
A3	RECEPTION	344	7'-8" & 8'-0"
A4	CLOSET	12	8'-0"
A5	CORRIDOR	188	8'-0"
A6	TOILET	28	8'-0"
A7	HEALTH	199	8'-0"
A8	PRINCIPAL	202	8'-0"
A9	CONFERENCE	202	8'-0"
A10	TEACHER LOUNGE	541	8'-0"
A11	HALL	37	7'-8"
A12	MEN'S TOILET	21	8'-0"
A13	WOMEN'S TOILET	45	7'-8" & 8'-0"
A14	JANITOR	34	8'-0"
A15	WORK ROOM	379	8'-0"
A16	CORRIDOR	86	8'-0"
A17	STORAGE	324	8'-0"
A18	CORRIDOR	670	8'-8"
A19	PROJECT ACTIVITY	792	9'-0"
A20	KILN ROOM	96	9'-0"
A21	DIAGNOSTIC/TUTORIAL	698	9'-0"
A22	BOOKSTORE	38	8'-0"
A23	CORRIDOR	340	7'-8" & 8'-8"
A24	RAMP	734	VARIES
A25	READING	176	VARIES
A26	A/V STORAGE	357	8'-0"
A27	WORK ROOM	204	8'-0"
A28	READING ROOM	366	VARIES
A29	INSTRUCTIONAL MATERIALS CENTER	1566	VARIES
A30	SPEECH & HEARING	160	8'-0"
A31	READING	382	8'-0"
A32	SHOWER	64	8'-0"
A33	DRYING	75	8'-0"
A34	SHOWER	64	8'-0"
A35	TOILET	96	8'-0"
A36	BOYS LOCKER ROOM	283	9'-0"
A37	GIRLS LOCKER ROOM	283	9'-0"
A38	TOILET	96	8'-0"
A39	SHOWER	64	8'-0"
A40	DRYING	75	8'-0"
A41	SHOWER	64	8'-0"
A42	STORAGE	144	9'-0"
A43	OFFICE	100	8'-0"
A44	GYMNASIUM	5320	VARIES
A45	DINING	2374	14'-0"
A46	STORAGE	400	9'-0"
A47	STORAGE	528	12'-2"
A48	TOILET	39	8'-0"
A49	FREEZER	83	----
A50	JANITOR	26	8'-0"
A51	KITCHEN	646	9'-0"
A52	DISHWASHING	241	9'-0"
A53	VESTIBULE	100	8'-8"
A54	CORRIDOR	181	8'-0"
A55	CORRIDOR	1151	8'-8"
A56	STORAGE	307	9'-0"
A57	NOT USED	----	----
A58	MEN'S TOILET	38	8'-0"
A59	WOMEN'S TOILET	32	8'-0"
A60	ELECTRICAL	144	12'-2"
A61	MECHANICAL	796	12'-2"
A62	VOCAL MUSIC	1002	16'-0"
A63	ELECTRICAL CLOSET	12	8'-8"
A64	ELECTRICAL CLOSET	21	10'-0"

UNIT B

ROOM NO.	ROOM NAME	AREA SQ.FT.	CEILING HGT. (AFF)
B1	ENTRY	204	18'-0"
B2	COATS	370	8'-0"
B3	CONFERENCE	152	8'-0"
B4	CLOSET	15	8'-0"
B5	STAIRS	104	VARIES
B6	EXTENDED LEARNING	1173	7'-8" & 9'-4"
B7	CLASSROOM	925	7'-8" & 9'-4"
B8	CLASSROOM	930	7'-8" & 9'-4"
B9	CLASSROOM	927	7'-8" & 9'-4"
B10	CLASSROOM	920	7'-8" & 9'-4"
B11	CLASSROOM	925	7'-8" & 9'-4"
B12	CORRIDOR	166	10'-0"
B13	JANITOR	16	8'-8"
B14	BANDWASH	202	10'-0"
B15	GIRLS' TOILET	98	8'-0"
B16	BOYS' TOILET	98	8'-0"
B17	TOILET	40	8'-0"
B18	CORRIDOR	396	10'-0"
B19	BANDWASH	262	10'-0"
B20	GIRLS' TOILET	69	8'-0"
B21	BOYS' TOILET	98	8'-0"
B22	COATS	336	8'-0"
B23	CLOSET	36	8'-0"
B24	CONFERENCE	192	8'-0"
B25	KILN ROOM	60	8'-0"
B26	STAIRS	193	8'-0"
B27	EXTENDED LEARNING	1188	7'-8" & 9'-4"
B28	CLASSROOM	910	7'-8" & 9'-4"
B29	CLASSROOM	920	7'-8" & 9'-4"
B30	CLASSROOM	927	7'-8" & 9'-4"
B31	CLASSROOM	930	7'-8" & 9'-4"
B32	CLASSROOM	925	7'-8" & 9'-4"
B33	CLASSROOM	901	7'-8" & 9'-4"
B34	CORRIDOR	531	8'-8" & VARIES
B35	PROJECT ACTIVITY	842	9'-0"
B36	FAN ROOM	357	10'-0"
B37	ELECTRICAL CLOSET	15	10'-0"

UNIT C

ROOM NO.	ROOM NAME	AREA SQ.FT.	CEILING HGT. (AFF)
C1	COATS	370	8'-0"
C2	CONFERENCE	152	8'-0"
C3	CLOSET	15	8'-0"
C4	STAIRS	83	8'-0"
C5	EXTENDED LEARNING	1173	7'-8" & 9'-4"
C6	BOYS' TOILET	22	8'-0"
C7	GIRLS' TOILET	22	8'-0"
C8	COATS	179	8'-0"
C9	EARLY CHILDHOOD	1093	7'-8", 9'-4" & VARIES
C10	CLASSROOM	930	7'-8" & 9'-4"
C11	CLASSROOM	927	7'-8" & 9'-4"
C12	CLASSROOM	920	7'-8" & 9'-4"
C13	CLASSROOM	925	7'-8" & 9'-4"
C14	CORRIDOR	166	9'-4"
C15	JANITOR	16	8'-8"
C16	BANDWASH	202	9'-4"
C17	GIRLS' TOILET	98	8'-0"
C18	BOYS' TOILET	98	8'-0"
C19	TOILET	40	8'-0"
C20	CORRIDOR	396	9'-4"
C21	BANDWASH	262	9'-4"
C22	GIRLS' TOILET	69	8'-0"
C23	BOYS' TOILET	98	8'-0"
C24	COATS	336	8'-0"
C25	CLOSET	36	8'-0"
C26	CONFERENCE	192	8'-0"
C27	STAIRS	58	9'-4"
C28	STORAGE	127	7'-8"
C29	EXTENDED LEARNING	1164	7'-8" & 9'-4"
C30	CLASSROOM	910	7'-8" & 9'-4"
C31	CLASSROOM	920	7'-8" & 9'-4"
C32	CLASSROOM	927	7'-8" & 9'-4"
C33	CLASSROOM	930	7'-8" & 9'-4"
C34	CLASSROOM	925	7'-8" & 9'-4"
C35	ELECTRICAL	38	8'-0"
C36	RAMP	384	VARIES
C37	ELECTRICAL CLOSET	15	9'-4"



OVERALL BUILDING PLAN

SCALE: 1/16 1 -0

NORTH

GROSS BUILDING AREA: 64,177 S.F.

GENERAL NOTES

1. BUILDING CONSTRUCTION IS TYPE IIN AND TYPE II - 1 HOUR, OCCUPANCY TYPE E1. ALL ABOVE INFORMATION IS BASED ON THE 1979 EDITION OF THE UNIFORM BUILDING CODE - INDIANA EDITION.
2. WATERPROOFING SHALL OCCUR ON ALL EXTERIOR WALLS AND INTERIOR RETAINING WALLS WHERE GRADE OR COMPACTED FILL IS HIGHER THAN FLOOR LEVEL AND SHALL BE CONTINUOUS FROM GRADE LEVEL OR CONCRETE SLAB DOWN TO BOTTOM OF FOOTING ON SOIL SIDE OF WALL.
3. THERE SHALL BE PERIMETER INSULATION CONTINUOUS AROUND THE ENTIRE PERIMETER OF THE BUILDING. PERIMETER INSULATION TO EXTEND FROM 2" BELOW GRADE TO TOP OF FOOTING ON THE EXTERIOR WHERE GRADE IS ABOVE FLOOR LEVEL AND EXTEND BELOW FLOOR SLAB TO TOP OF FOOTING ON THE INTERIOR WHERE GRADE IS BELOW FLOOR LEVEL. WHERE THESE TWO (2) CONDITIONS MEET, THEY SHOULD BE OVERLAPPED A MINIMUM OF 2'-0".
4. CONCRETE MASONRY UNIT (CMU) JOINTS AND BOND ARE TO MATCH EXISTING.
5. ALL WALL THICKNESSES INDICATED ARE NOMINAL DIMENSIONS.
6. WHERE DIFFERENT FLOOR MATERIALS MEET, THEY SHALL OCCUR UNDER CENTERLINE OF DOOR EXCEPT WHERE SHOWN OTHERWISE.
7. WALLS THAT DO NOT LAY OUT IN FULL OR HALF BLOCK LENGTHS, SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" EXPOSURE.
8. ALL INTERIOR MASONRY WALLS THAT RUN TO THE UNDERSIDE OF THE ROOF DECK SHALL HAVE JOINT AT THE DECK FILLED WITH MINERAL WOOL INSULATION TO ALLOW FOR DEFLECTION.
9. FOR TYPICAL CONTROL JOINT DETAIL, SEE DETAIL 15-A5. FOR TYPICAL CONTROL JOINT LOCATIONS ABOVE DOORS AND WINDOWS, SEE DETAIL 16-A5.
10. ALL EXPOSED CONCRETE MASONRY UNIT (CMU) CORNERS ARE TO BE RUBBED.
11. FINISH FLOOR ELEVATION 109'-4" AS INDICATED ON THE FLOOR PLANS IS 811.4' AS SHOWN ON THE SURVEY AND SITE DRAWINGS.
12. ALL EXISTING WALLS, FLOORS, BASES, AND CEILINGS TO REMAIN, ARE TO BE PATCHED AND FINISHED TO MATCH ADJACENT CONSTRUCTION.
13. ALL INTERIOR FINISHES SHALL BE IN ACCORDANCE WITH CHAPTER 42 UBC, 1979.
14. WHERE EXISTING FACE BRICK IS REMOVED AND REPLACED WITH NEW, FURNISH AND INSTALL NEW CORRUGATED WALL TIES AT 16" O.C. (HORIZ. & VERT.).

PLAN LEGEND

EXISTING BUILDING

TORNADO SAFE AREA

INDICATES WALL TO BE 2 HOUR RATED AND TO RUN UP TO UNDERSIDE OF EXISTING OR NEW ROOF DECK.

NOTE: SEE REFLECTED CEILING PLANS FOR WALLS TO BE RATED ONE HOUR.

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

KEY PLAN

PANNING/HOWEY ASSOCIATES, Inc.
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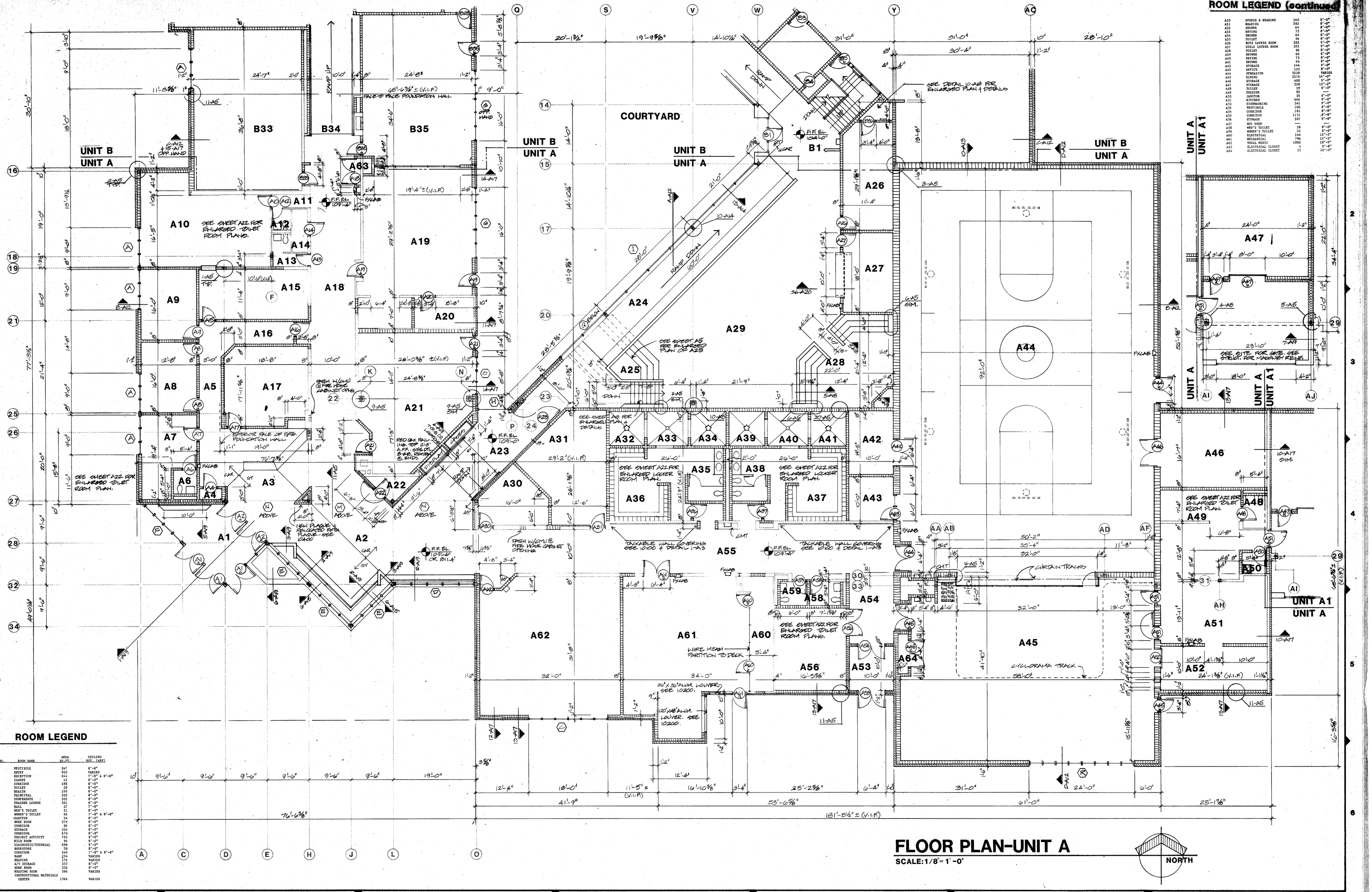
OVERALL BUILDING PLAN

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COMM. NO.: 8455.00
DATE: 11 NOV. 1985

REVISIONS NO. DATE

A-1

1/16 Revised 1/16 EMS 13



ROOM LEGEND

ROOM NO.	ROOM NAME	AREA SQ.FT.	CEILING HGT. (AFF)
A1	VESTIBULE	247	8'-8"
A2	ENTRY	920	VARIES
A3	RECEPTION	344	7'-6" & 8'-0"
A4	CLOSET	12	8'-0"
A5	CORRIDOR	188	8'-0"
A6	TOILET	28	8'-0"
A7	HEALTH	199	8'-0"
A8	PRINCIPAL	202	8'-0"
A9	CONFERENCE	202	8'-0"
A10	TEACHER LOUNGE	541	8'-0"
A11	HALL	27	7'-8"
A12	MEN'S TOILET	21	8'-0"
A13	WOMEN'S TOILET	45	7'-6" & 8'-0"
A14	JANITOR	34	8'-0"
A15	WORK ROOM	279	8'-0"
A16	CORRIDOR	86	8'-0"
A17	STORAGE	324	8'-0"
A18	CORRIDOR	870	8'-8"
A19	PRIMARY ACTIVITY	760	8'-0"
A20	TOILET	96	8'-0"
A21	DIAGNOSTIC/TUTORIAL	698	8'-0"
A22	BOOKSTORE	58	8'-0"
A23	CORRIDOR	340	7'-8" & 8'-8"
A24	RAMP	234	VARIES
A25	READING	176	VARIES
A26	A/V STORAGE	357	8'-0"
A27	WORK ROOM	204	8'-0"
A28	READING ROOM	366	VARIES
A29	INSTRUCTIONAL MATERIALS CENTER	1566	VARIES

ROOM LEGEND (continued)

A30	STORES & READING	160	8'-8"
A31	READING	382	8'-8"
A32	SHOWER	64	8'-8"
A33	DRYING	75	8'-8"
A34	SHOWER	64	8'-8"
A35	TOILET	96	8'-8"
A36	BOYS LOCKER ROOM	283	8'-8"
A37	GIRLS LOCKER ROOM	283	8'-8"
A38	TOILET	96	8'-8"
A39	SHOWER	64	8'-8"
A40	DRYING	73	8'-8"
A41	SHOWER	64	8'-8"
A42	STORAGE	144	8'-8"
A43	OFFICE	100	8'-8"
A44	GYMNASIUM	5330	VARIES
A45	DINING	2374	14'-0"
A46	STORAGE	400	12'-0"
A47	STORAGE	528	12'-0"
A48	TOILET	28	8'-0"
A49	TRESTLE	28	8'-0"
A50	JANITOR	36	8'-0"
A51	KITCHEN	666	8'-8"
A52	DISHWASHING	241	8'-8"
A53	VESTIBULE	106	8'-8"
A56	CORRIDOR	181	8'-8"
A57	CORRIDOR	1131	8'-8"
A58	STORAGE	107	8'-8"
A59	MCP CHEF	—	—
A60	MEN'S TOILET	38	8'-0"
A61	WOMEN'S TOILET	32	8'-0"
A62	ELECTRICAL	144	12'-0"
A63	MECHANICAL	796	12'-0"
A64	VOCAL MUSIC	1002	16'-8"
A65	ELECTRICAL CLOSET	9	8'-8"
A66	ELECTRICAL CLOSET	21	10'-0"

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PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

KEY PLAN

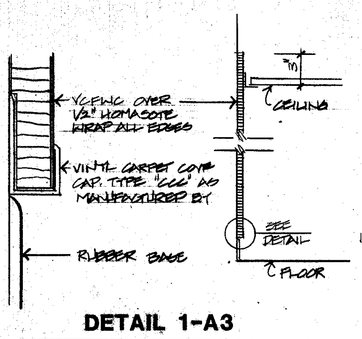
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FLOOR PLAN-UNIT A

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DATE: 11 NOV. 1985

REVISIONS NO. DATE

A-2



DETAIL 1-A3

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA SQ. FT.	CEILING HGT. (APX.)
B1	ENTRY	704	14'-0"
B2	COATS	370	8'-0"
B3	CONFERENCE	132	8'-0"
B4	CLOSET	15	8'-0"
B5	STAIRS	104	VARIES
B6	EXTENDED LEARNING	1175	7'-8" & 9'-4"
B7	CLASSROOM	925	7'-8" & 9'-4"
B8	CLASSROOM	930	7'-8" & 9'-4"
B9	CLASSROOM	927	7'-8" & 9'-4"
B10	CLASSROOM	920	7'-8" & 9'-4"
B11	CLASSROOM	925	7'-8" & 9'-4"
B12	CORRIDOR	166	10'-0"
B13	JANITOR	15	8'-0"
B14	HANDHASH	202	10'-0"
B15	GIRLS' TOILET	98	8'-0"
B16	BOYS' TOILET	98	8'-0"
B17	TOILET	40	8'-0"
B18	CORRIDOR	396	10'-0"
B19	CORRIDOR	262	10'-0"
B20	GIRLS' TOILET	98	8'-0"
B21	BOYS' TOILET	98	8'-0"
B22	COATS	336	8'-0"
B23	CLOSET	36	8'-0"
B24	CONFERENCE	192	8'-0"
B25	KILN ROOM	60	9'-0"
B26	STAIRS	193	8'-0"
B27	EXTENDED LEARNING	1188	7'-8" & 9'-4"
B28	CLASSROOM	910	7'-8" & 9'-4"
B29	CLASSROOM	920	7'-8" & 9'-4"
B30	CLASSROOM	927	7'-8" & 9'-4"
B31	CLASSROOM	930	7'-8" & 9'-4"
B32	CLASSROOM	925	7'-8" & 9'-4"
B33	CLASSROOM	901	7'-8" & 9'-4"
B34	CORRIDOR	521	8'-0" & VARIES
B35	PROJECT ACTIVITY	842	9'-0"
B36	FAN ROOM	337	10'-0"
B37	ELECTRICAL CLOSET	15	10'-0"

COURTYARD

UNIT B / UNIT A

FLOOR PLAN-UNIT B

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

NORTH

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LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

KEY PLAN

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS ENGINEERS / CONSULTANTS

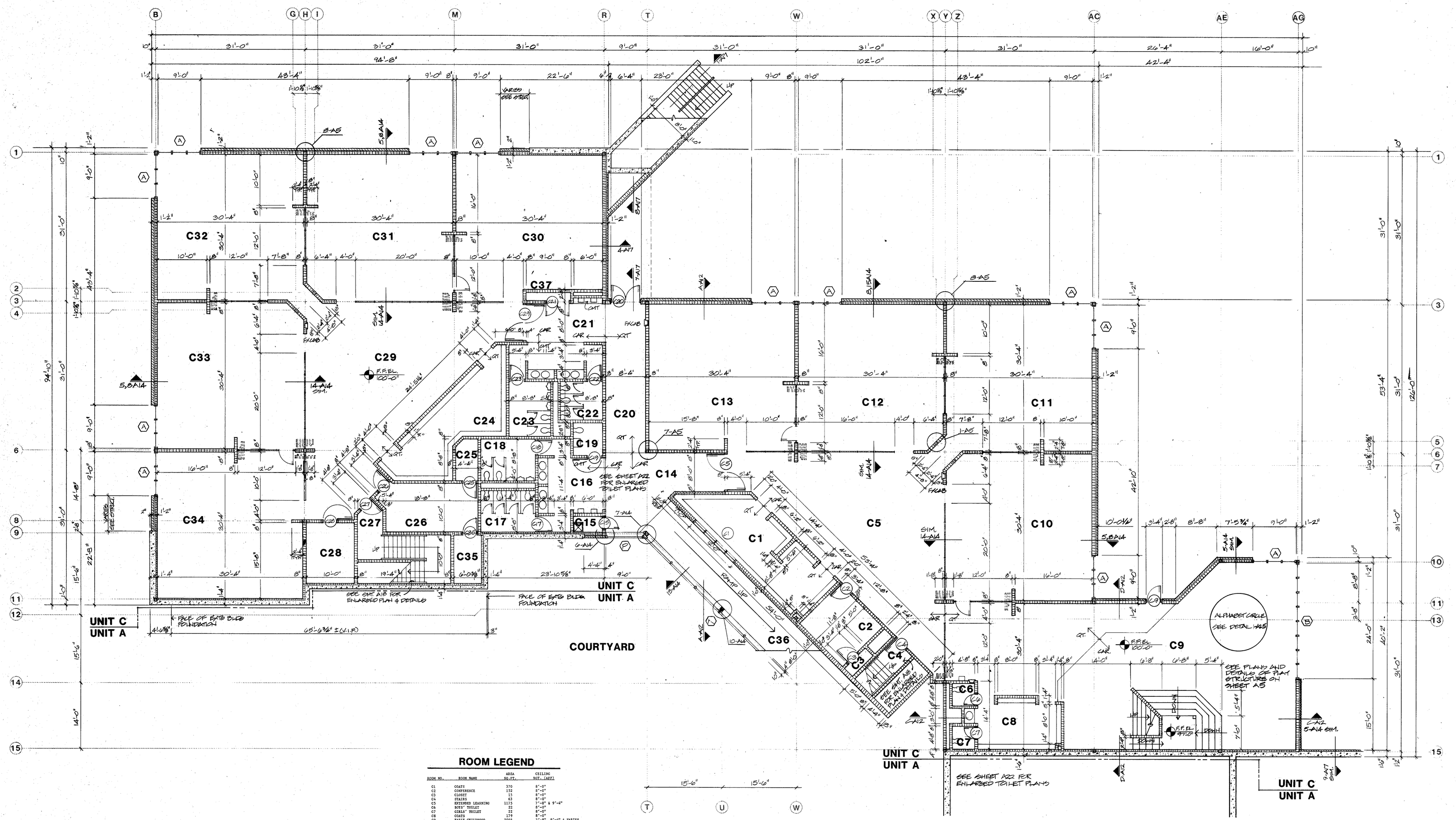
FLOOR PLAN-UNIT B

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REVISIONS NO. DATE

A-3

ELM ROAD 8455.00



ROOM LEGEND

ROOM NO.	ROOM NAME	AREA SQ.FT.	CEILING HGT. (AFF)
C1	COATS	370	8'-0"
C2	CONFERENCE	132	8'-0"
C3	CLOSET	13	8'-0"
C4	STAIRS	63	8'-0"
C5	EXTENDED LEARNING	1175	7'-6" & 9'-4"
C6	BOYS' TOILET	22	8'-0"
C7	GIRLS' TOILET	22	8'-0"
C8	COATS	179	8'-0"
C9	EARLY CHILDHOOD	2093	7'-6", 9'-4" & VARIES
C10	CLASSROOM	930	7'-6" & 9'-4"
C11	CLASSROOM	927	7'-6" & 9'-4"
C12	CLASSROOM	920	7'-6" & 9'-4"
C13	CLASSROOM	925	7'-6" & 9'-4"
C14	CORRIDOR	166	9'-4"
C15	JANITOR '	16	8'-8"
C16	HANDWASH	202	9'-4"
C17	GIRLS' TOILET	98	8'-0"
C18	BOYS' TOILET	98	8'-0"
C19	TOILET	40	8'-0"
C20	CORRIDOR	396	9'-4"
C21	VESTIBULE	96	9'-4"
C22	GIRLS' TOILET	69	8'-0"
C23	BOYS' TOILET	98	8'-0"
C24	COATS	336	8'-0"
C25	CLOSET	36	8'-0"
C26	CONFERENCE	192	8'-0"
C27	STAIRS	58	9'-4"
C28	STORAGE	127	8'-0"
C29	EXTENDED LEARNING	1164	7'-6" & 9'-4"
C30	CLASSROOM	910	7'-6" & 9'-4"
C31	CLASSROOM	920	7'-6" & 9'-4"
C32	CLASSROOM	927	7'-6" & 9'-4"
C33	CLASSROOM	930	7'-6" & 9'-4"
C34	CLASSROOM	925	7'-6" & 9'-4"
C35	ELECTRICAL	58	8'-0"
C36	RAMP	384	VARIES
C37	ELECTRICAL CLOSET	13	9'-4"

FLOOR PLAN-UNIT C

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

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MISHAWAKA, INDIANA

KEY PLAN

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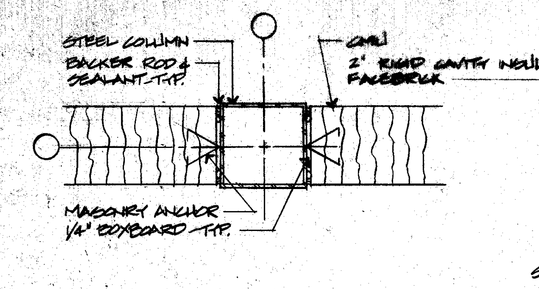
FLOOR PLAN-UNIT C

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COMM. NO.: 8455.00
DATE: 11 NOV. 1985

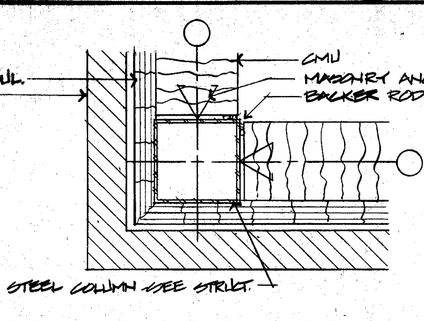
REVISIONS NO. DATE

A-4

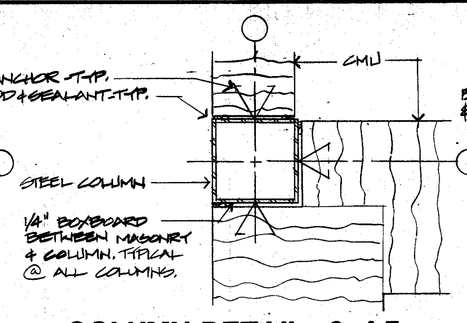
ELM ROAD 8455.00



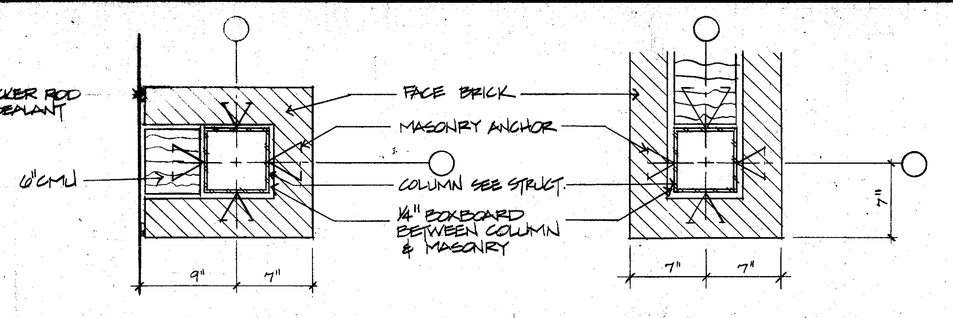
COLUMN DETAIL 1-A5
SCALE: 1½" = 1'-0"



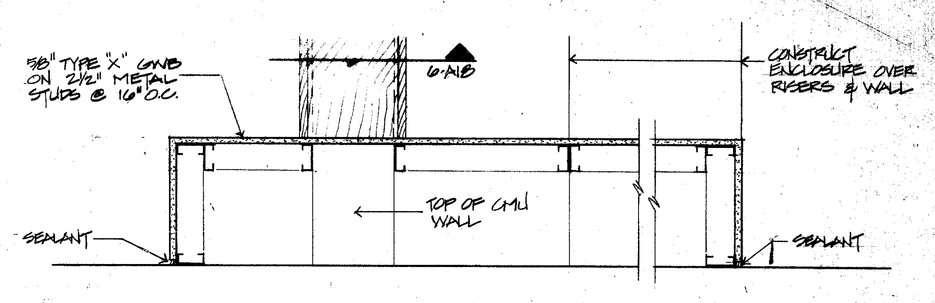
COLUMN DETAIL 2-A5
SCALE: 1½" = 1'-0"



COLUMN DETAIL 3-A5
SCALE: 1½" = 1'-0"

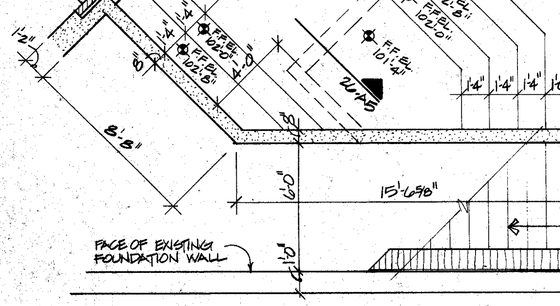


COLUMN DETAIL 4-A5
SCALE: 1½" = 1'-0"

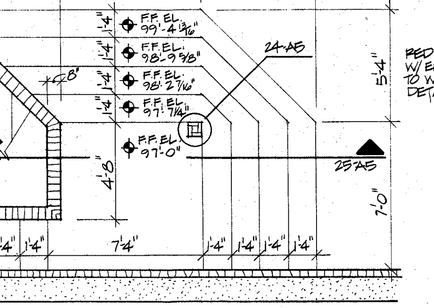


COLUMN DETAIL 5-A5
SCALE: 1½" = 1'-0"

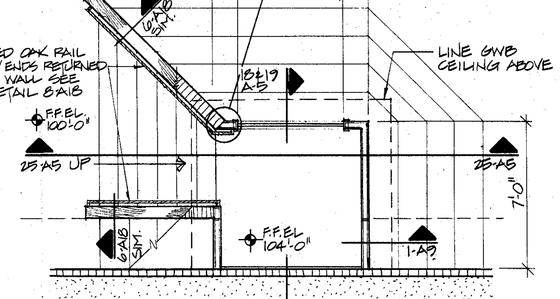
DETAIL 6-A5
SCALE: 1½" = 1'-0"



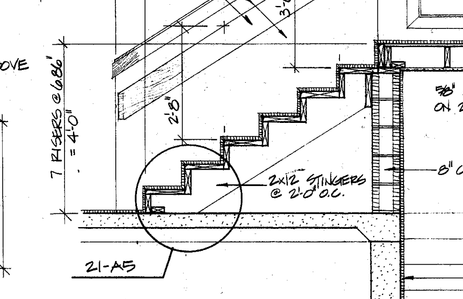
COLUMN DETAIL 7-A5
SCALE: 1½" = 1'-0"



COLUMN DETAIL 8-A5
SCALE: 1½" = 1'-0"

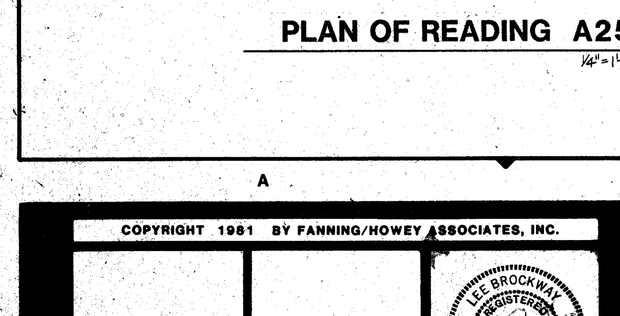


COLUMN DETAIL 9-A5
SCALE: 1½" = 1'-0"

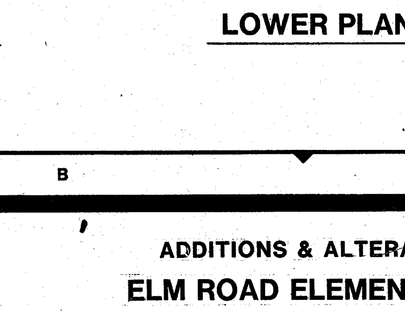


COLUMN DETAIL 10-A5
SCALE: 1½" = 1'-0"

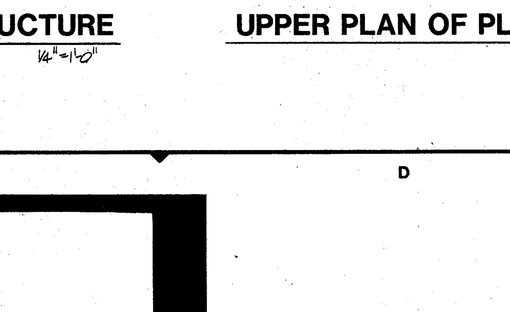
COLUMN DETAIL 11-A5
SCALE: 1½" = 1'-0"



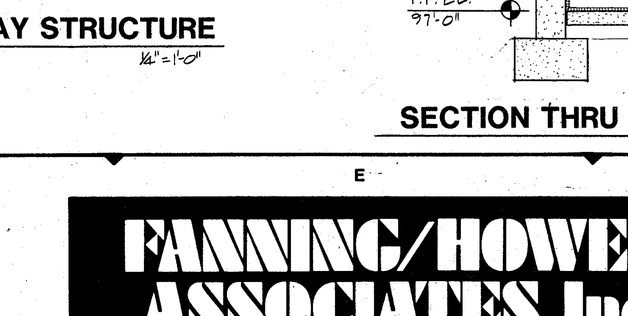
12-A5 TYPICAL PLACEMENT OF CONTROL JOINTS IN CONCRETE MASONRY UNIT WALLS AT DOORS AND WINDOWS
NO SCALE



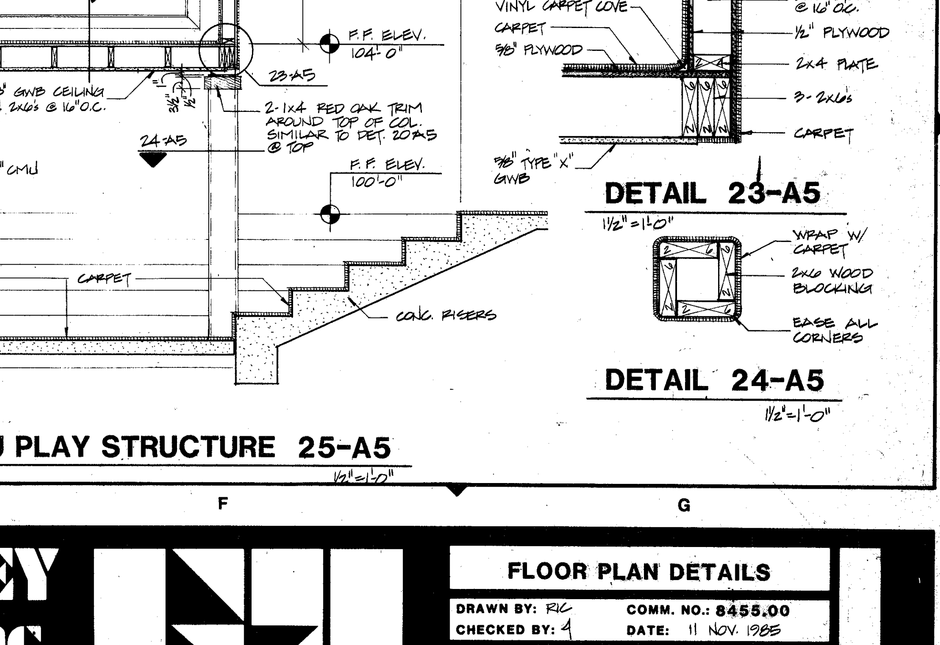
13-A5 CONTROL JOINT AT FLOOR JOINT
NO SCALE



14-A5 TYPICAL CONTROL JOINT AT JUNCTION OF INTERIOR WALL TO EXTERIOR WALL
NO SCALE



15-A5 TYPICAL CONTROL JOINT
NO SCALE



FOLDING PANEL PARTITION CLOSURE DETAIL 16-A5
SCALE: 1½" = 1'-0"

17-A5 BRICK EXPANSION JOINT
NO SCALE

DETAIL 26-A5
1½" = 1'-0"

COLUMN DETAIL 27-A5
1½" = 1'-0"

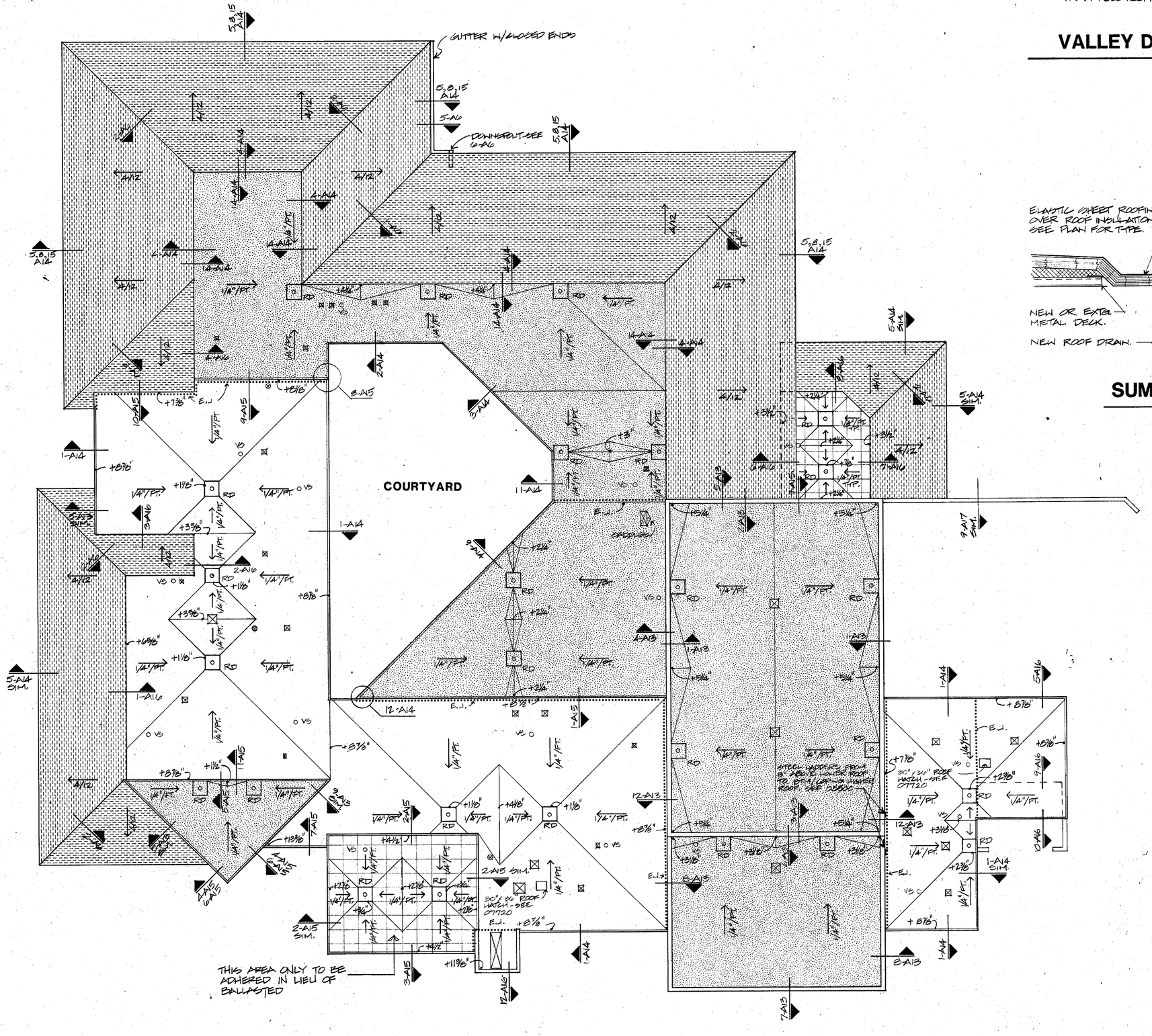
DETAIL 18-A5
1½" = 1'-0"

DETAIL 19-A5
1½" = 1'-0"

DETAIL 20-A5
1½" = 1'-0"

DETAIL 21-A5
1½" = 1'-0"

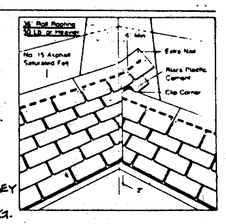
8'-0"
7'-0" ±1.0
2½"
1'-4"
1'-4"
1'-4



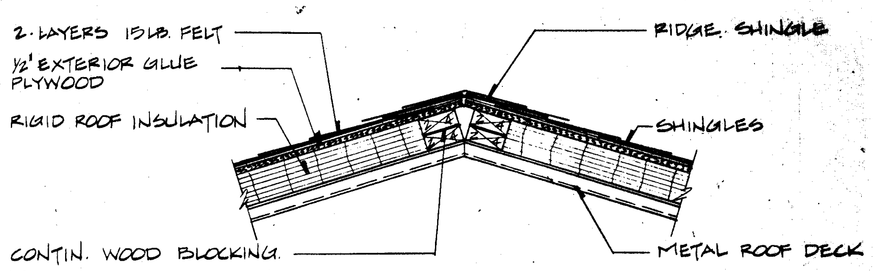
ROOF PLAN
SCALE: 1/16" = 1'-0"

1. A closed cut valley is recommended. Lay a 36" wide valley liner of heavy roll roofing. Nail on outer edges only.
2. Lay all shingles on one side of valley and across center line of valley a minimum of 12". Nail a minimum of 6" away from center line on each side of valley.
3. Strike a chalk line 2" from the center line of the unshingled side. Apply shingles on the unshingled side up to chalk line and trim, taking care not to cut the underlying shingles. Trim upper corners of these shingles, cement and nail.
4. Woven type valleys are an acceptable alternate.

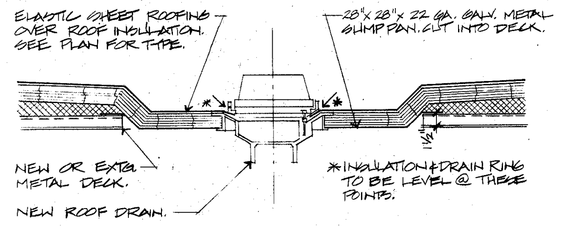
NOTE: PROVIDE METAL VALLEY LINER IN LIEU OF H"ANY ROLL ROOFING.



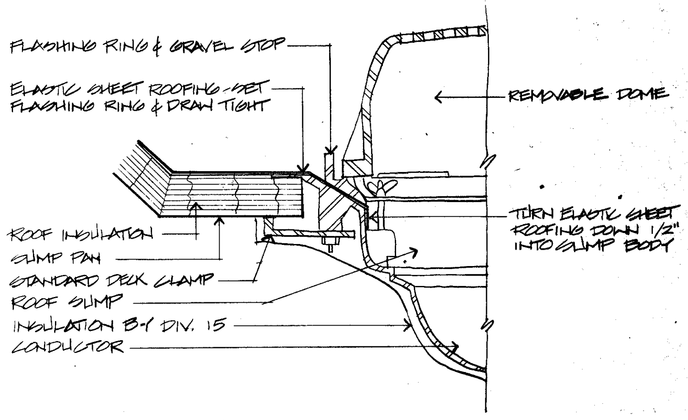
VALLEY DETAIL 1-A6



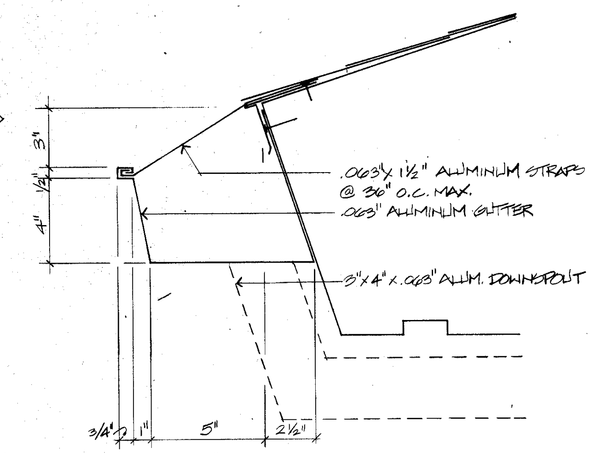
RIDGE & HIP DETAIL 2-A6



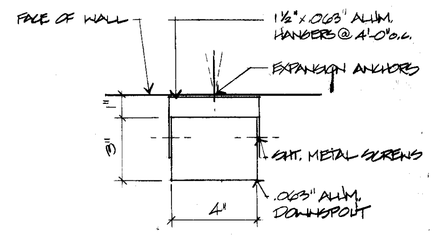
SUMP DETAIL 3-A6



ROOF DRAIN DETAIL 4-A6



GUTTER DETAIL 5-A6



DOWNSPOUT DETAIL 6-A6

ROOF PLAN LEGEND

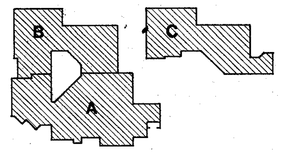
TYPE 1	Shingles over 1 layer 15 lb. felt, over 2" nail base insulation, over 3/4" isocyanurate insulation, over 3/4" perlite, over 1¼" metal deck.
TYPE 2	Adhered elastic sheet roofing over ½" wood fiber board, over tapered expanded polystyrene insulation, over 3/4" perlite, over 1¼" metal deck.
TYPE 3	Ballasted elastic sheet roofing over 1½" isocyanurate insulation, over 3/4" isocyanurate insulation, over 3/4" perlite, over 1¼" metal deck.
TYPE 4	Ballasted elastic sheet roofing over ½" wood fiberboard, over tapered isocyanurate insulation, over 3/4" perlite, over 1¼" metal deck.
	New tapered insulation roof saddles.
	Mechanical equipment on prefabricated curb. Flash as required by membrane manufacturer's Standard Detail.
VS	Vent Stack. Flash as required by membrane Manufacturer's Standard Detail.
E.J.	Expansion Joint. See membrane manufacturer's Standard Detail.
1/4"/FT.	Direction of roof slope.
+8⅞'	Height of tapered roof insulation, not including ½" top layer and 3/4" bottom layer.
RD	Roof drain in sump pan. See Details 3-A6 and 4-A6.

Note: Patch all openings in existing metal deck at locations where vent stacks, roof drains, or mechanical equipment and curbs have been removed. For openings less than 12" perpendicular to deck ribs, weld 22 gauge galvanized sheet metal in opening. For openings greater than 12" perpendicular to deck ribs, weld 22 gauge galvanized metal deck (match existing) in opening.

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KEY PLAN

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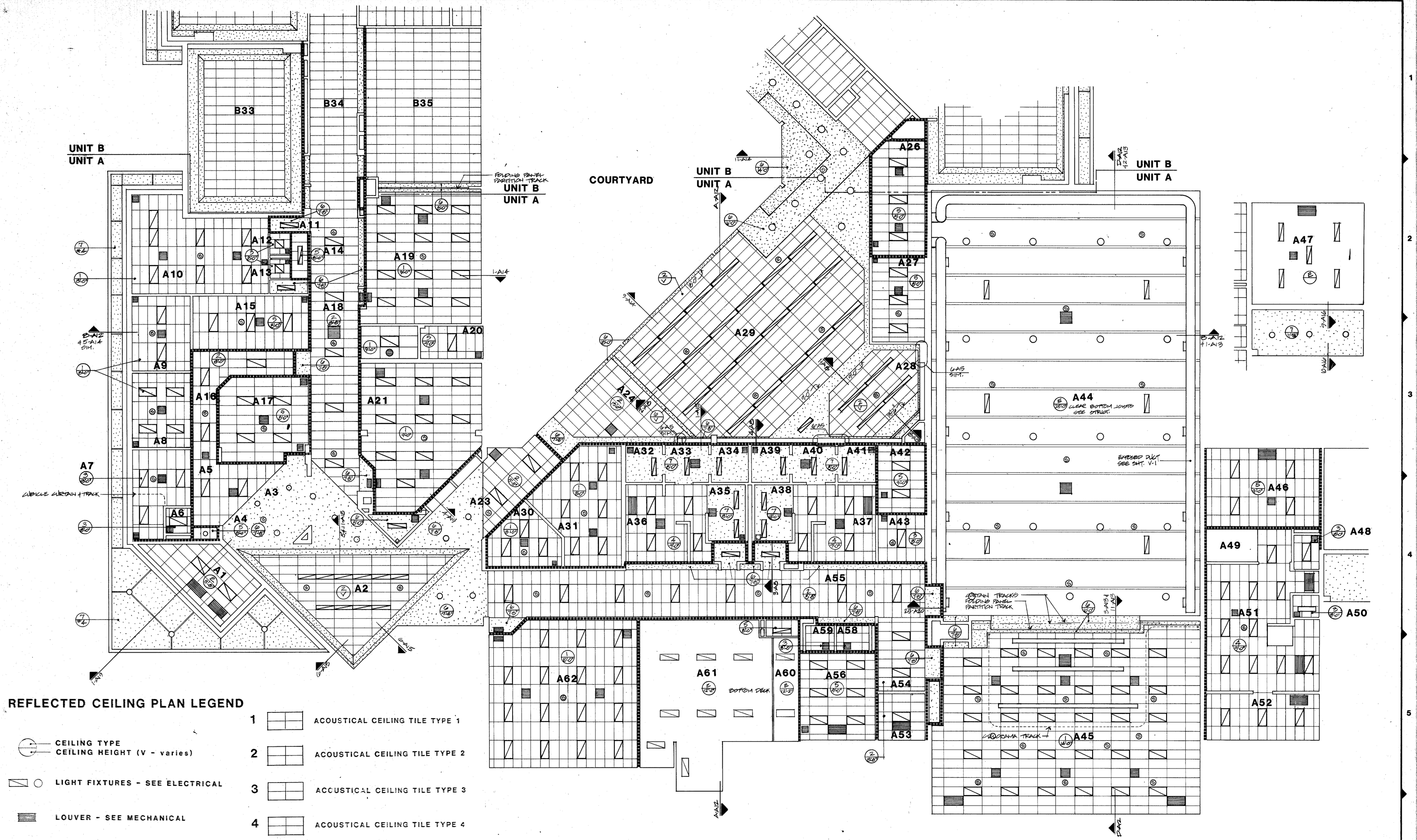
ROOF PLAN & DETAILS

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DATE: 11 NOV. 1985

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A-6

ELM ROAD 8455.00



REFLECTED CEILING PLAN LEGEND

- CEILING TYPE / CEILING HEIGHT (V - varies)
- LIGHT FIXTURES - SEE ELECTRICAL
- LOUVER - SEE MECHANICAL
- ACCESS PANEL
- SPEAKERS - SEE ELECTICAL
- INDICATES WALLS TO EXTEND TO UNDERSIDE OF DECK ABOVE

1. ACOUSTICAL CEILING TILE TYPE 1
2. ACOUSTICAL CEILING TILE TYPE 2
3. ACOUSTICAL CEILING TILE TYPE 3
4. ACOUSTICAL CEILING TILE TYPE 4
5. ACOUSTICAL CEILING TILE TYPE 5
6. GYPSUM WALLBOARD
7. PLASTER

REFLECTED CEILING PLAN-UNIT A

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

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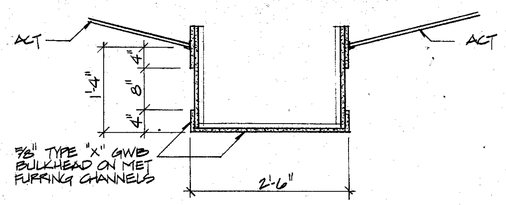
CEILING PLAN-UNIT A

DRAWN BY: dlb RJC COMM. NO.: 8455.00
CHECKED BY: A DATE: 11 NOV. 1985

REVISIONS NO. DATE

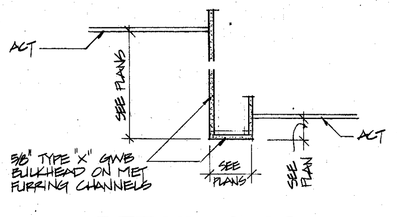
A-7

ELM ROAD 8455.00



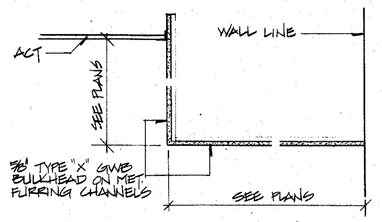
DETAIL 1-A8

3/4" = 1'-0"



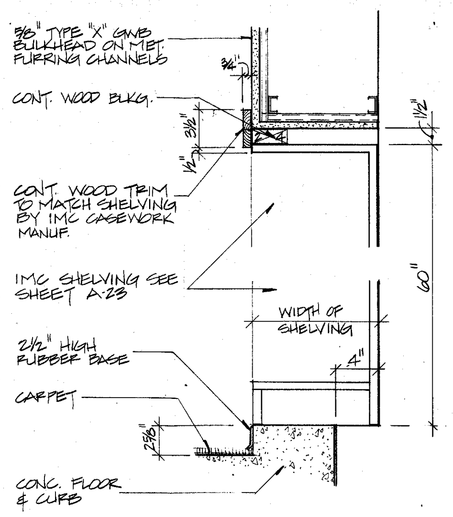
DETAIL 2-A8

3/4" = 1'-0"



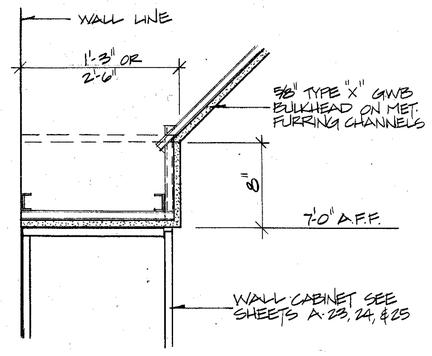
DETAIL 3-A8

3/4" = 1'-0"



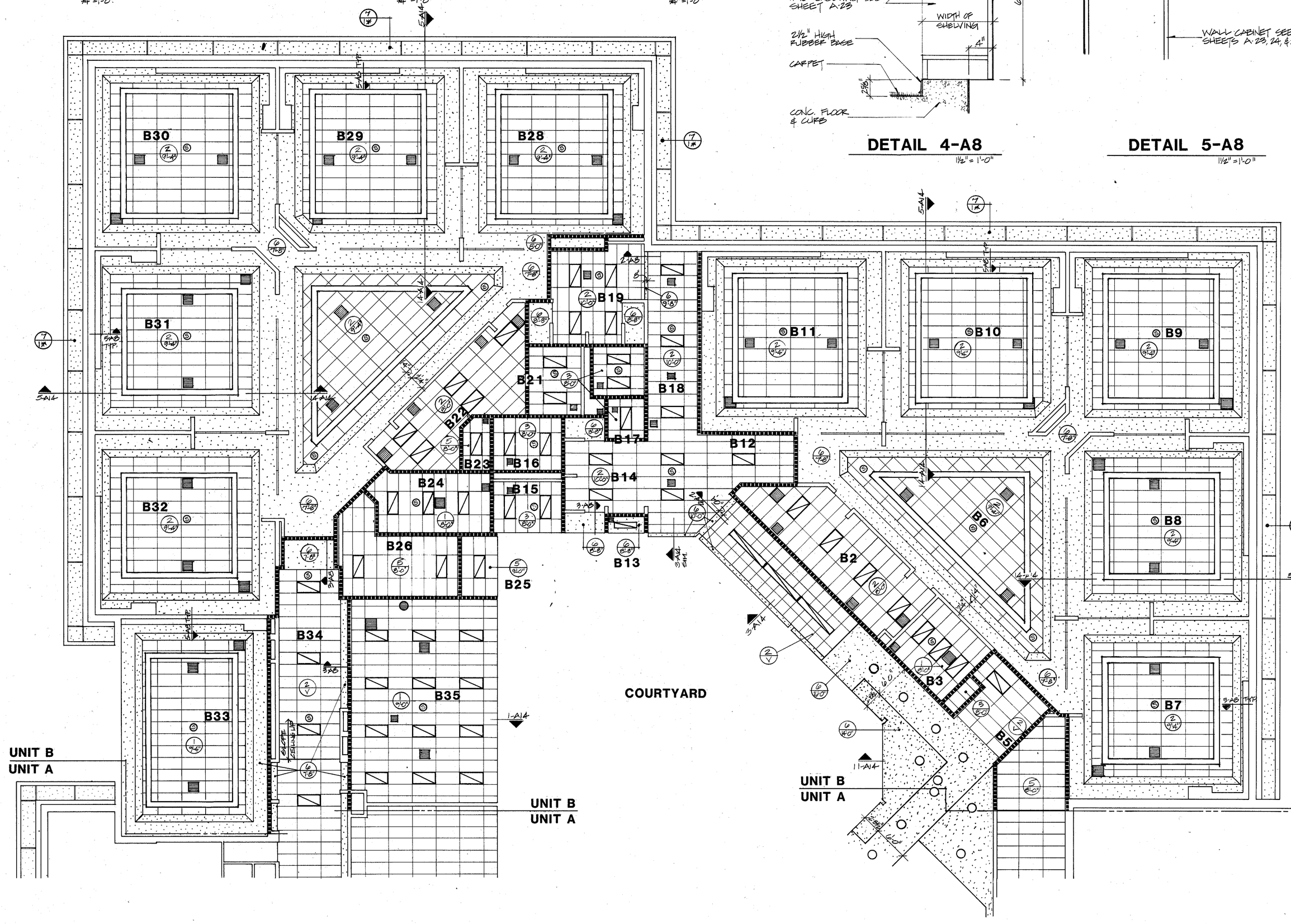
DETAIL 4-A8

1 1/2" = 1'-0"



DETAIL 5-A8

1 1/2" = 1'-0"



REFLECTED CEILING PLAN LEGEND

- CEILING TYPE / CEILING HEIGHT (V - varies)
- LIGHT FIXTURES - SEE ELECTRICAL
- LOUVER - SEE MECHANICAL
- ACCESS PANEL
- SPEAKERS - SEE ELECTICAL
- INDICATES WALLS TO EXTEND TO UNDERSIDE OF DECK ABOVE
- 1 ACOUSTICAL CEILING TILE TYPE 1
- 2 ACOUSTICAL CEILING TILE TYPE 2
- 3 ACOUSTICAL CEILING TILE TYPE 3
- 4 ACOUSTICAL CEILING TILE TYPE 4
- 5 ACOUSTICAL CEILING TILE TYPE 5
- 6 GYPSUM WALLBOARD
- 7 PLASTER

REFLECTED CEILING PLAN-UNIT B

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

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PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

KEY PLAN

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

CEILING PLAN-UNIT B

DRAWN BY: AP RC COMM. NO.: 8455.00
CHECKED BY: J DATE: 11 NOV. 1985

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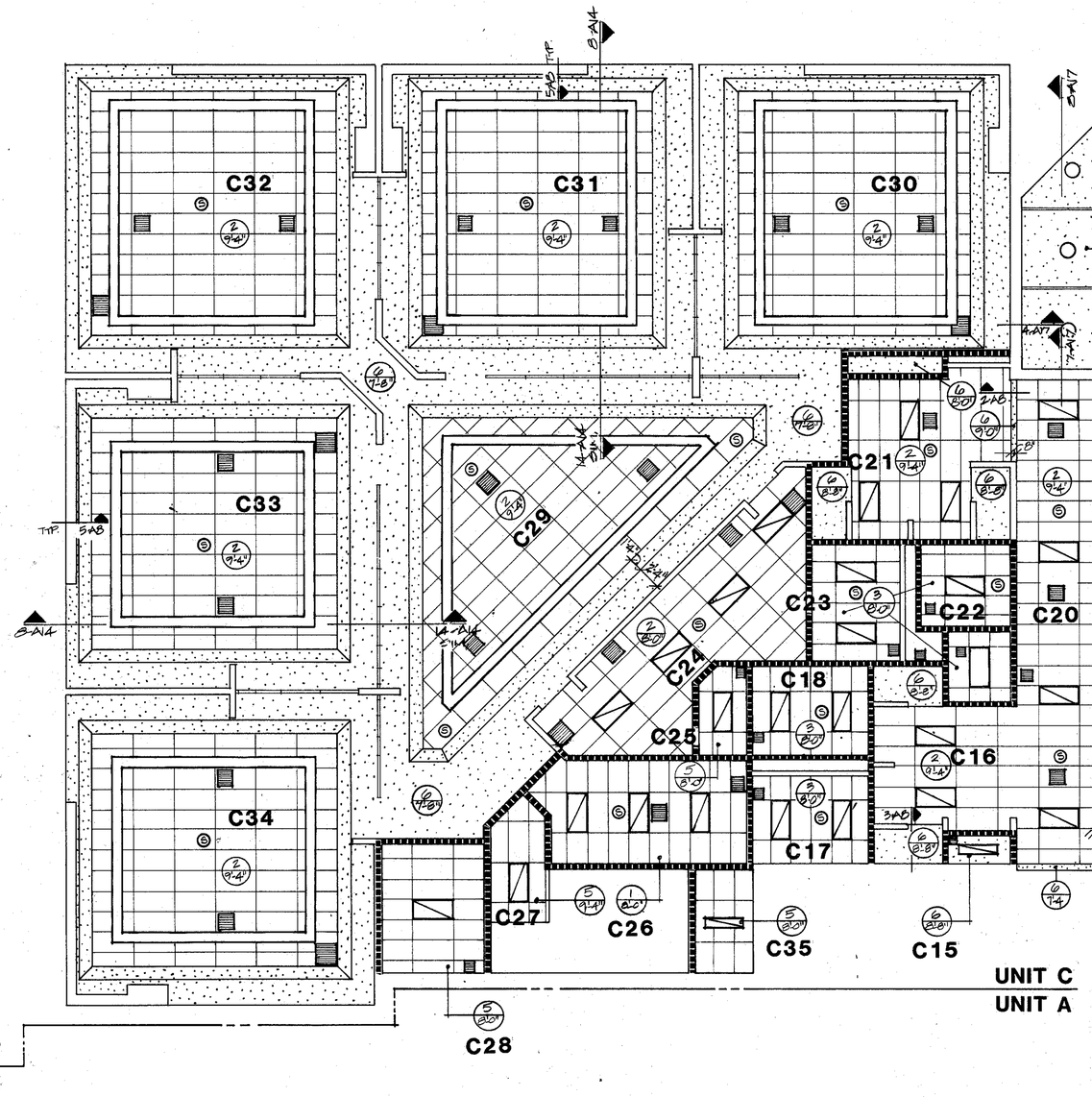
A-8

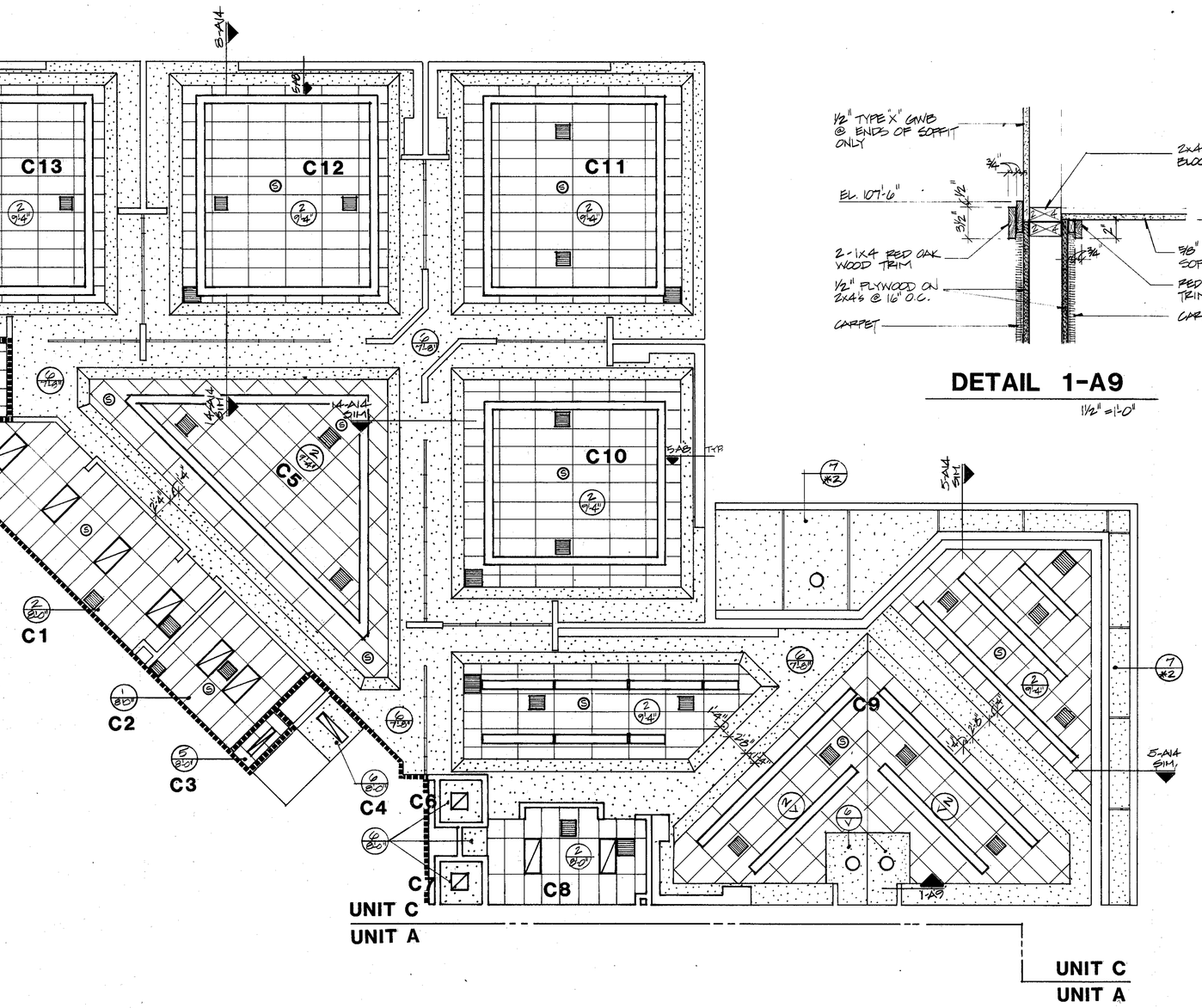
ELM ROAD 8455.00

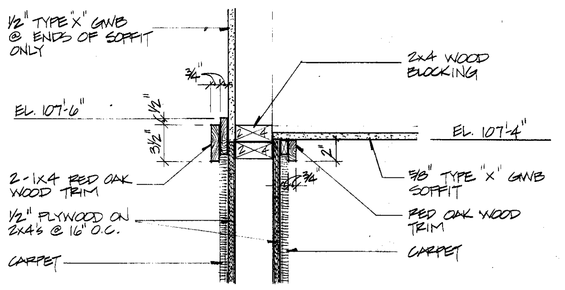
REFLECTED CEILING PLAN LEGEND

- CEILING TYPE / CEILING HEIGHT (V - varies)
- LIGHT FIXTURES - SEE ELECTRICAL
- LOUVER - SEE MECHANICAL
- ACCESS PANEL
- SPEAKERS - SEE ELECTICAL
- INDICATES WALLS TO EXTEND TO UNDERSIDE OF DECK ABOVE

1. ACOUSTICAL CEILING TILE TYPE 1
2. ACOUSTICAL CEILING TILE TYPE 2
3. ACOUSTICAL CEILING TILE TYPE 3
4. ACOUSTICAL CEILING TILE TYPE 4
5. ACOUSTICAL CEILING TILE TYPE 5
6. GYPSUM WALLBOARD
7. PLASTER







DETAIL 1-A9
1½" = 1'-0"

REFLECTED CEILING PLAN-UNIT C

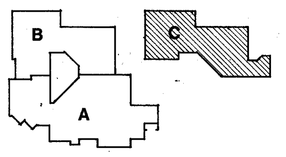
SCALE: 1/8" = 1'-0"

NORTH

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LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA



KEY PLAN

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

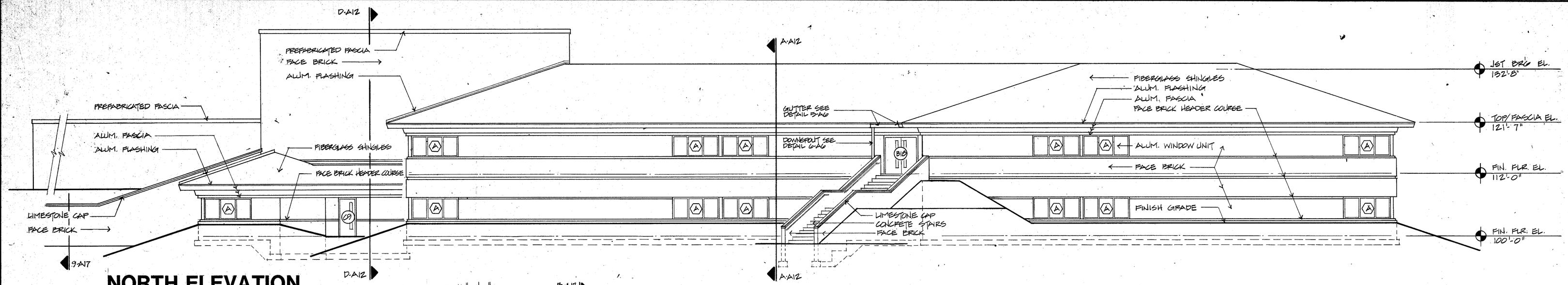
CEILING PLAN-UNIT C

DRAWN BY: db RIC | COMM. NO.: 8455.00
CHECKED BY: 4 | DATE: 11 NOV. 1985

REVISIONS NO. DATE

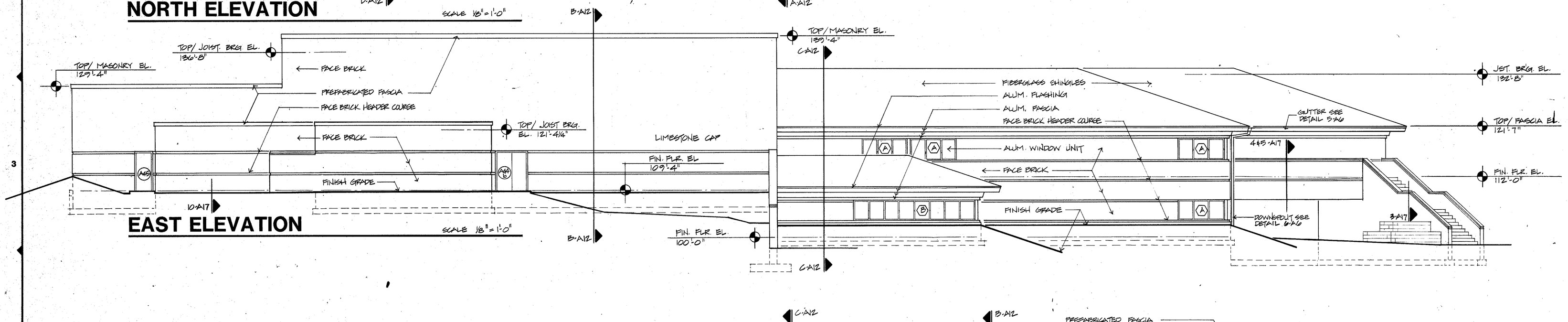
A-9

ELM ROAD 8455.00



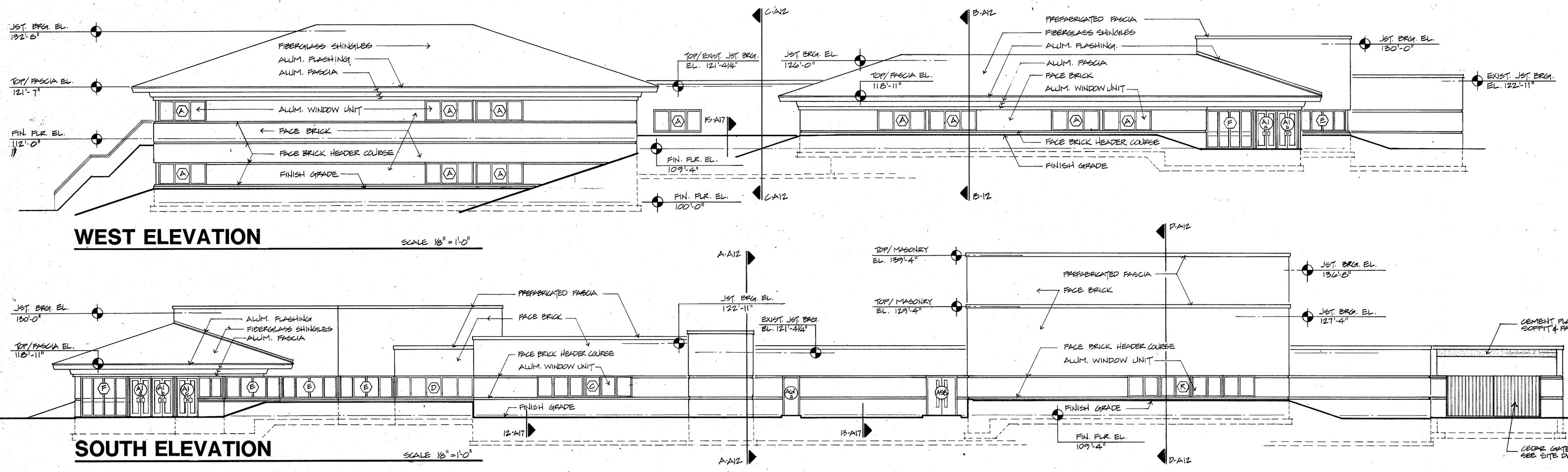
NORTH ELEVATION

SCALE 1/8" = 1'-0"



EAST ELEVATION

SCALE 1/8" = 1'-0"



WEST ELEVATION

SCALE 1/8" = 1'-0"

SOUTH ELEVATION

SCALE 1/8" = 1'-0"

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

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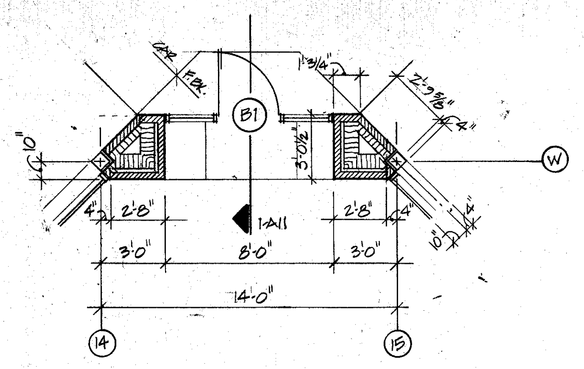
BUILDING ELEVATIONS

DRAWN BY: RPC
CHECKED BY: 4
COMM. NO.: 8455.00
DATE: 11 NOV. 1985

REVISIONS NO. DATE

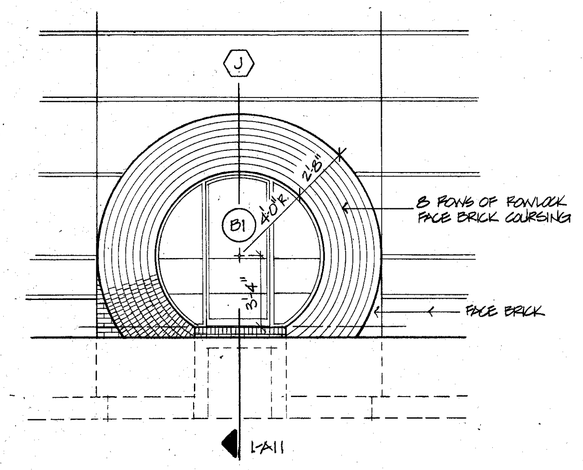
A-10

ELM ROAD 8455.00



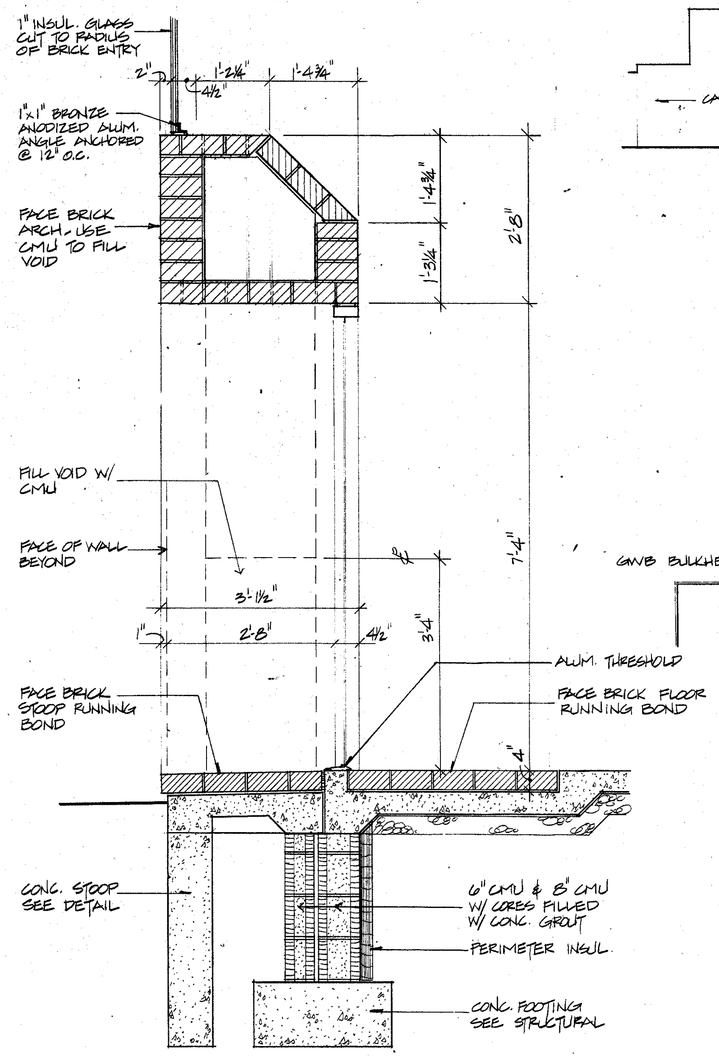
PARTIAL PLAN OF ENTRY B1

1/4" = 1'-0"



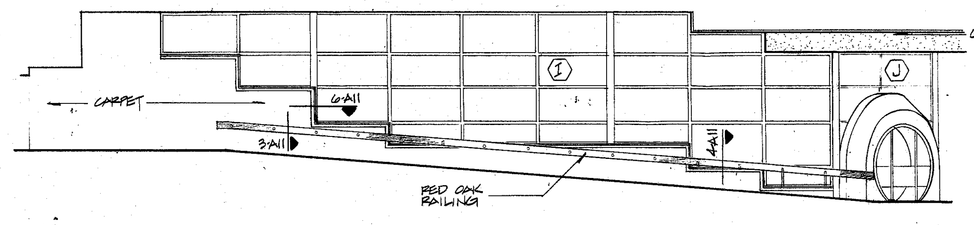
ELEVATION OF ENTRY B1

1/4" = 1'-0"



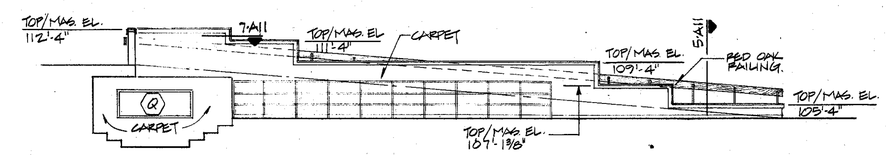
SECTION 1-A11

3/4" = 1'-0"



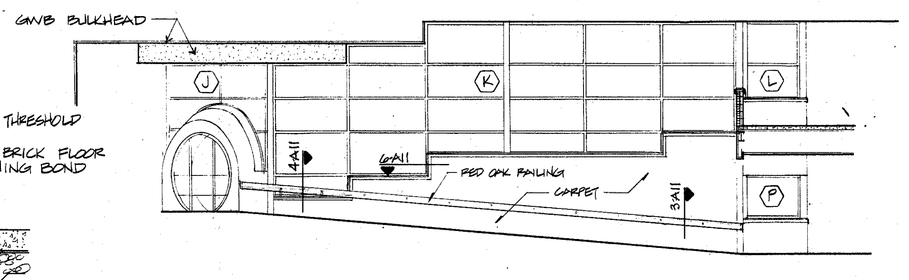
INTERIOR ELEVATION A-A11

1/8" = 1'-0"



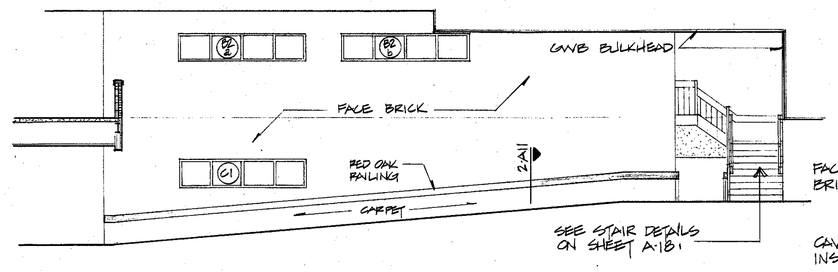
INTERIOR ELEVATION B-A11

1/8" = 1'-0"



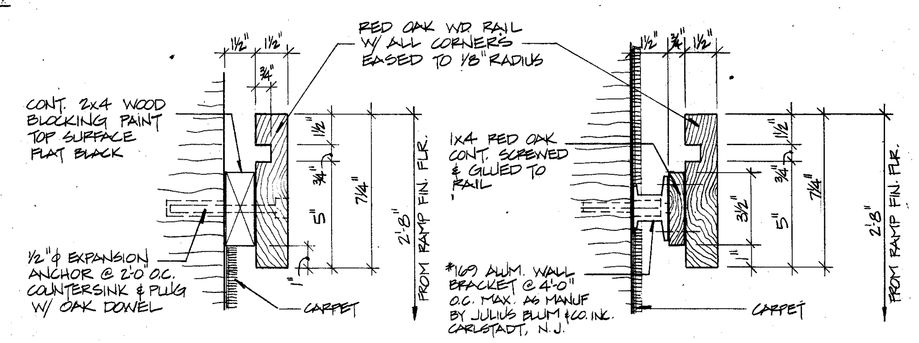
INTERIOR ELEVATION C-A11

1/8" = 1'-0"



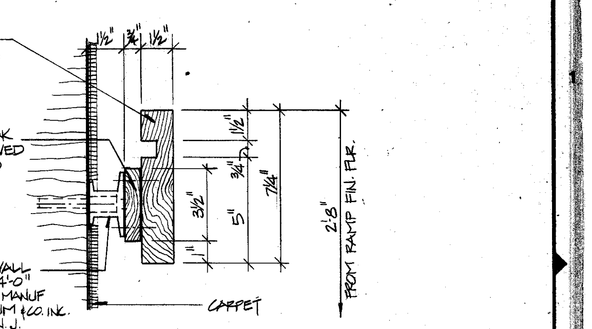
INTERIOR ELEVATION D-A11

1/8" = 1'-0"



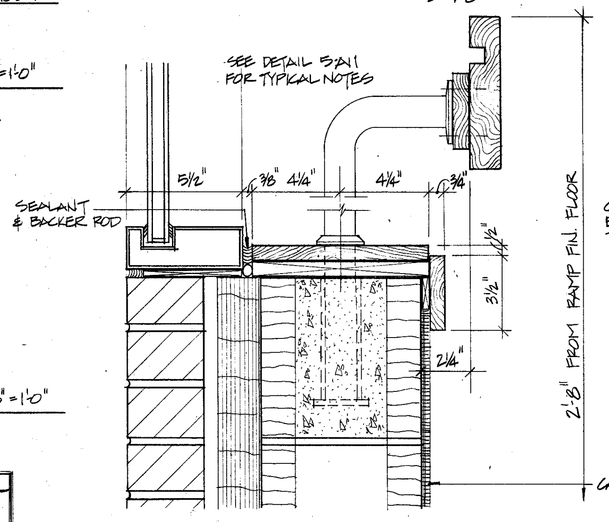
DETAIL 2-A11

3" = 1'-0"



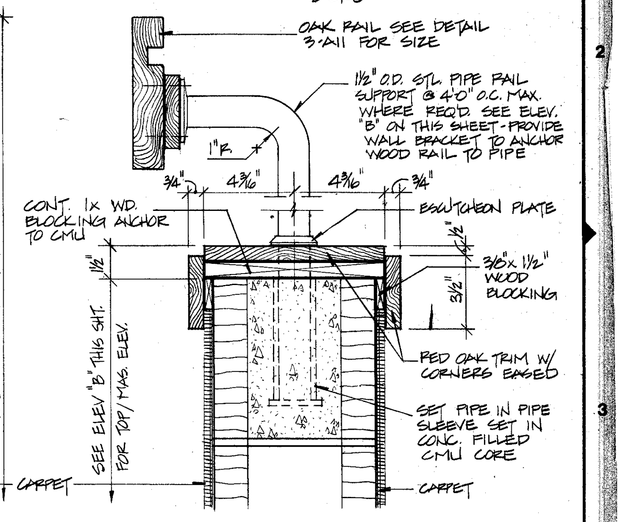
DETAIL 3-A11

3" = 1'-0"



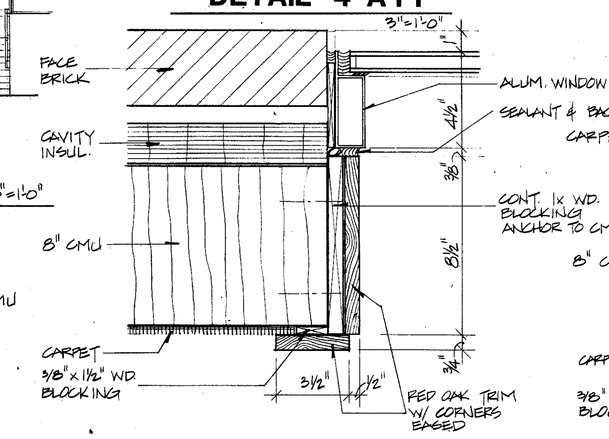
DETAIL 4-A11

3" = 1'-0"



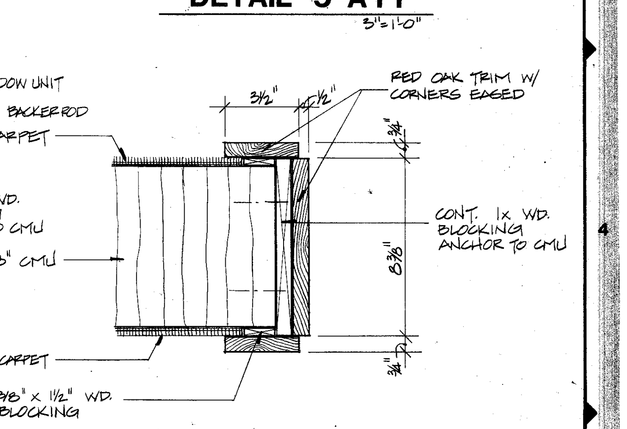
DETAIL 5-A11

3" = 1'-0"



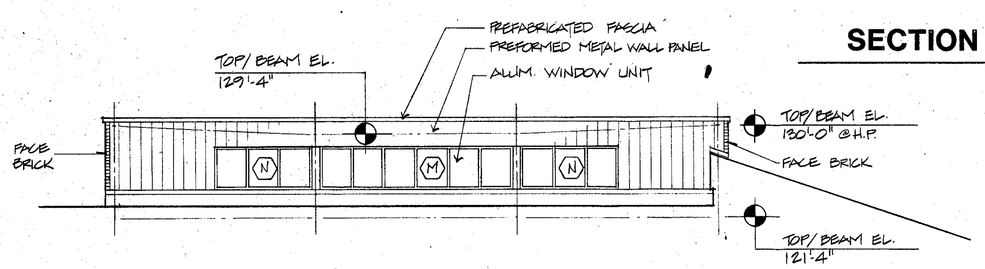
DETAIL 6-A11

3" = 1'-0"



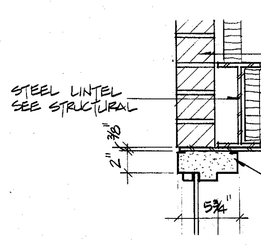
DETAIL 7-A11

3" = 1'-0"



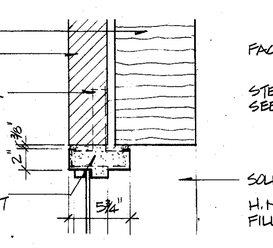
CLERESTORY AT ENTRY A2

1/8" = 1'-0"



HEAD 8-A11

1 1/2" = 1'-0"

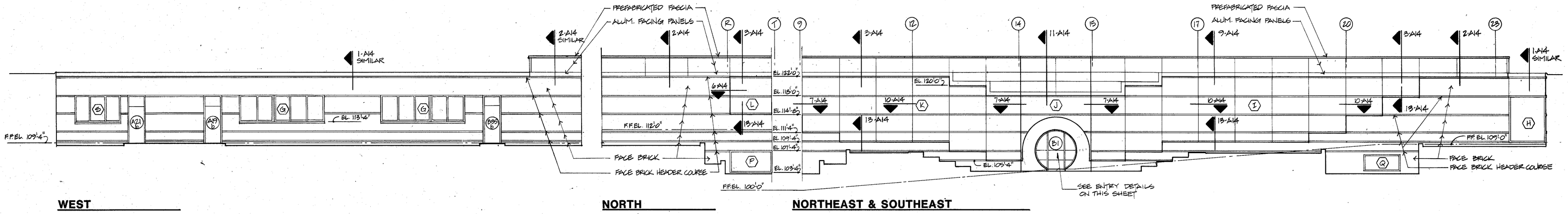


JAMB 9-A11

1 1/2" = 1'-0"

HEAD 10-A11

1 1/2" = 1'-0"



WEST — NORTH — NORTHEAST & SOUTHEAST

COURTYARD ELEVATIONS

1/8" = 1'-0"

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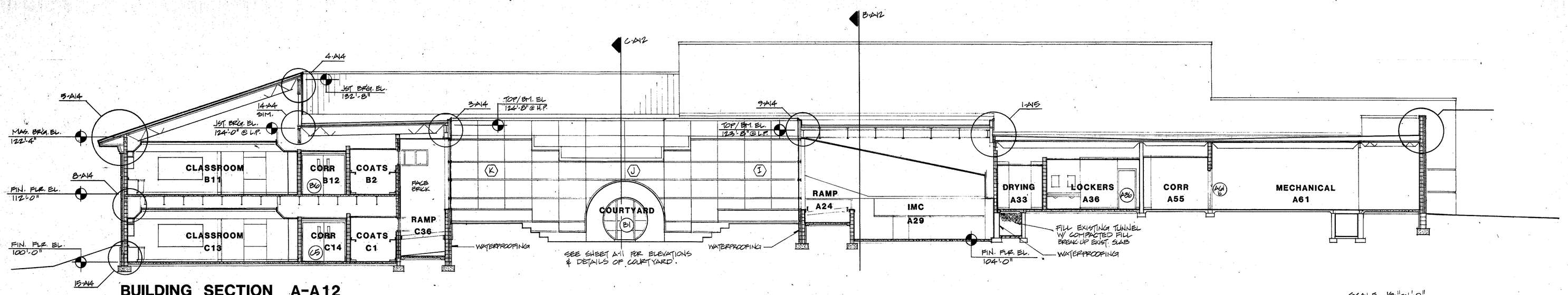
ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

FANNING/HOWEY ASSOCIATES, Inc.
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BUILDING ELEVATIONS & SECTIONS
DRAWN BY: RC — COMM. NO.: 8455.00
CHECKED BY: 4 — DATE: 11 NOV. 1985
REVISIONS NO. DATE

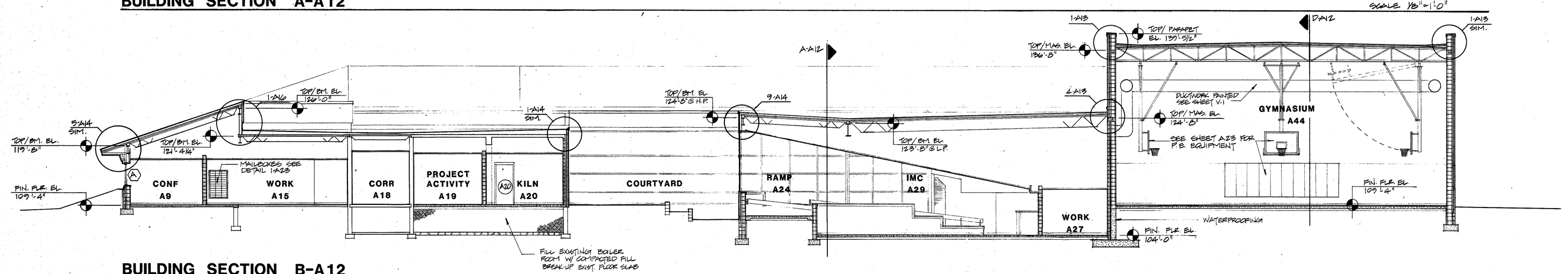
A-11

ELM ROAD 8455.00



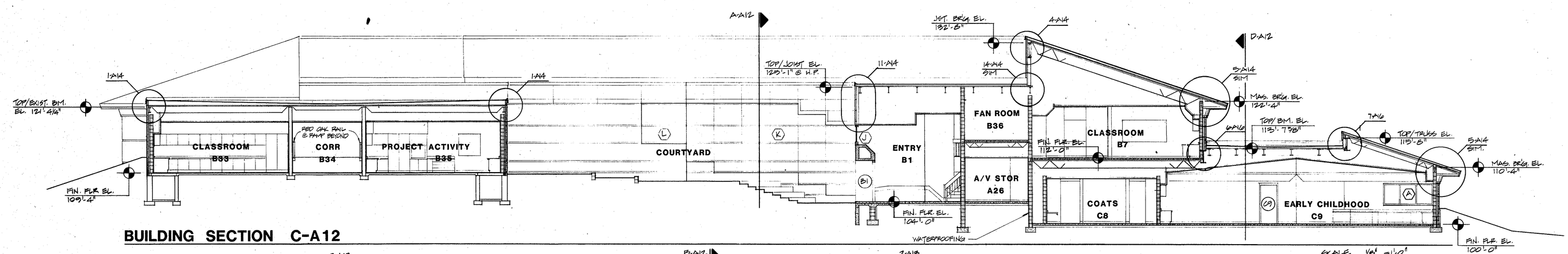
BUILDING SECTION A-A12

SCALE 3/8" = 1'-0"



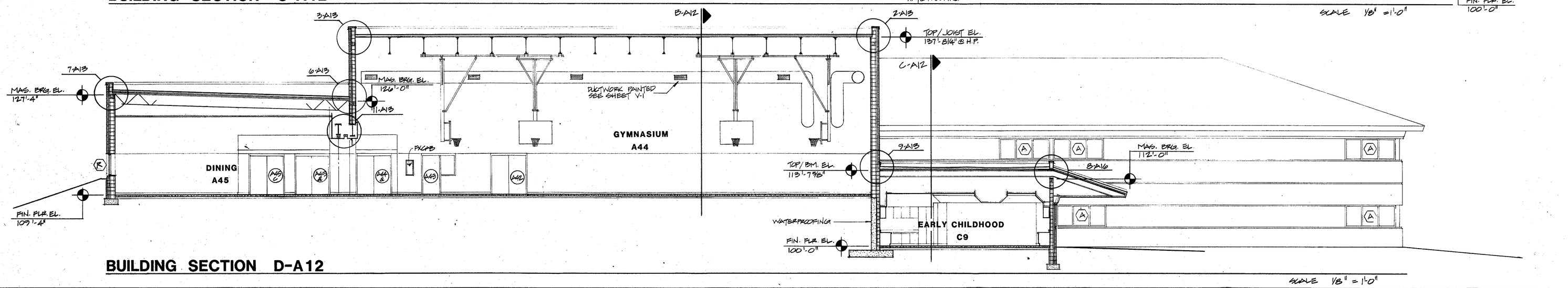
BUILDING SECTION B-A12

SCALE 3/8" = 1'-0"



BUILDING SECTION C-A12

SCALE 3/8" = 1'-0"



BUILDING SECTION D-A12

SCALE 3/8" = 1'-0"

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

BUILDING SECTIONS

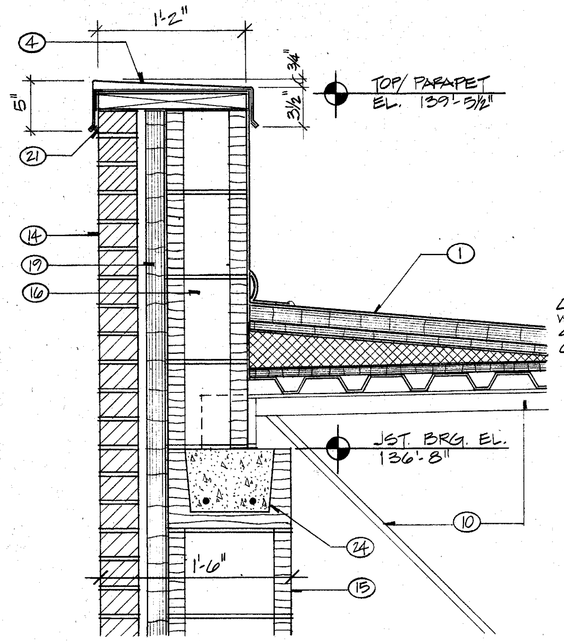
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COMM. NO.: 8455.00
DATE: 11 NOV. 1985
REVISIONS NO. DATE

A-12

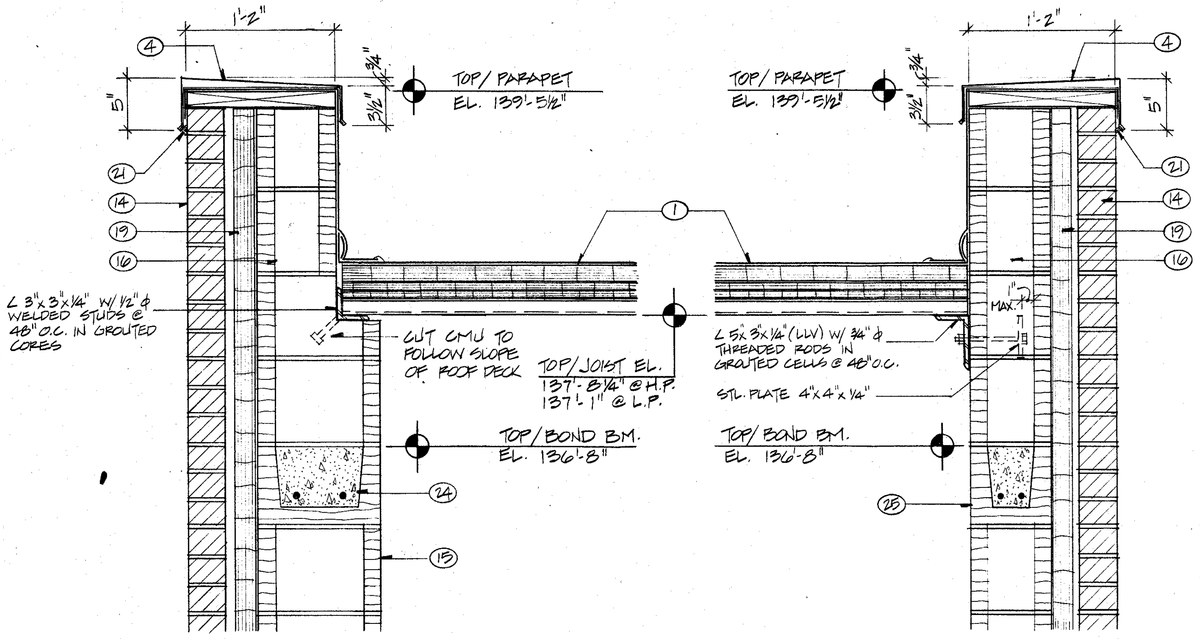
ELM ROAD 8455.00

KEYNOTE SCHEDULE

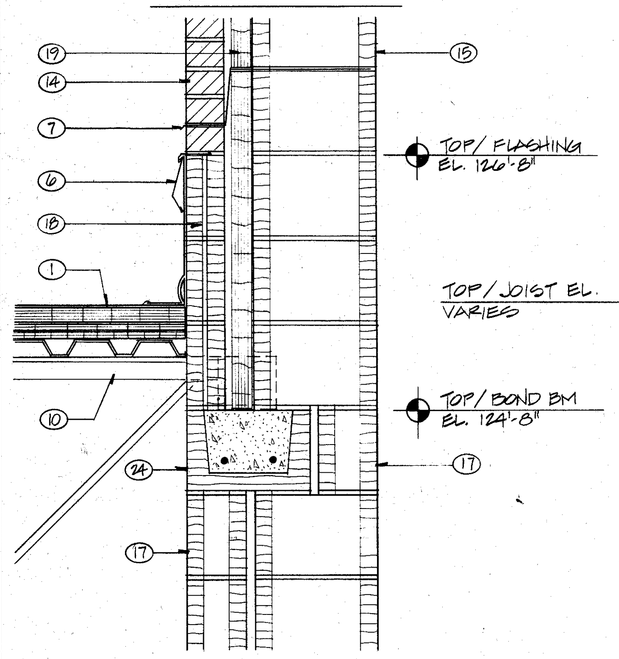
1. BALLASTED ELASTIC SHEET ROOFING OVER 1-1/2" ISOCYANURATE INSULATION, OVER 3/4" ISOCYANURATE INSULATION, OVER 3/4" PERLITE, OVER 1-1/2" METAL DECK.
2. SHINGLES OVER 1 LAYER 15-LB. FELT, OVER 2" NAIL BASE INSULATION, OVER 3/4" ISOCYANURATE INSULATION, OVER 3/4" PERLITE, OVER 1-1/2" METAL DECK.
3. ADHERED ELASTIC SHEET ROOFING OVER 1/2" WOOD FIBER BOARD, OVER TAPERED EXPANDED POLYSTYRENE INSULATION, OVER 3/4" PERLITE, OVER 1-1/2" METAL DECK.
4. PREFINISHED ALUMINUM COPING, COPING CHAIR, ELASTIC SHEET ROOFING (CARRY ROOFING OVER PARAPET AND ANCHOR AT BLOCKING), CONTINUOUS TREATED WOOD BLOCKING.
5. ROOF MANUFACTURER'S STANDARD EXPANSION JOINT CONSTRUCTION.
6. PREFINISHED ALUMINUM IN-WALL FLASHING.
7. THRU-WALL FLASHING WITH WEEP HOLES AT 32" O.C.
8. PREFINISHED .063 ALUMINUM FLASHING.
9. CONTINUOUS TREATED WOOD BLOCKING.
10. STEEL JOIST, SEE STRUCTURAL.
11. STEEL BEAM, SEE STRUCTURAL.
12. STEEL TRUSS, SEE STRUCTURAL.
13. STEEL ANGLE, SEE STRUCTURAL.
14. FACE BRICK
15. 12" CMU
16. 8" CMU
17. 6" CMU
18. 4" CMU
19. 2" CAVITY INSULATION
20. PACK WITH BATT INSULATION.
21. SEALANT
22. CONCRETE FLOOR CONSTRUCTION, SEE STRUCTURAL.
23. FLOOR AND BASE FINISH, SEE FINISH SCHEDULE.
24. 12" CMU BOND BEAM WITH 2 - #5.
25. 8" CMU BOND BEAM WITH 2 - #5.
26. 6" CMU BOND BEAM WITH 2 - #5.
27. 6" x 18 GAUGE METAL STUDS @ 16" O.C.
28. 1/2" EXTERIOR GLUE PLYWOOD.
29. 3/8" EXTERIOR GLUE PLYWOOD.
30. 6" BATT INSULATION.
31. ROOF MANUFACTURER'S STANDARD TIE-IN TO SHINGLED ROOF CONSTRUCTION.
32. PREFORMED METAL WALL PANELS WITH MANUFACTURER'S STANDARD ACCESSORIES.
33. ALUMINUM FACING PANELS.
34. PREFABRICATED/PREFINISHED ALUMINUM FASICA.
35. FACE BRICK HEADER COURSE.
36. 2 X WOOD FRAMING AT 16" O.C.
37. 5/8" TYPE "X" GWB ON METAL FURRING CHANNELS.
38. ACT CEILING, SEE FINISH SCHEDULE.
39. 1-1/2" RIGID INSULATION.
40. STEEL LINTEL, SEE STRUCTURAL.
41. ALUMINUM WINDOW UNIT.
42. 3/4" THICK MARBLE SILL.
43. LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
44. PREFINISHED .063 ALUMINUM FASICA.
45. 3/4" CEMENT PLASTER OVER GALVANIZED METAL LATH, OVER 3-1/2" METAL STUD FRAMING AT 16" O.C.
46. CONCRETE FOOTING, SEE STRUCTURAL.
47. 4" CONCRETE SLAB REINFORCED WITH 6 X 6 - W 1.4 X W 1.4 WWF, VAPOR BARRIER, POROUS FILL.
48. WATERPROOFING
49. 2" PERIMETER INSULATION
50. EXISTING WALL
51. EXISTING BEAM
52. EXISTING JOIST
53. EXISTING DECK
54. 3-1/2" X 18 GAUGE METAL STUDS AT 16" O.C. WITH 3-1/2" BATT INSULATION.
55. CONTINUOUS ALUMINUM VENT.
56. 1" INSULATED GLASS.
57. BALLASTED ELASTIC SHEET ROOFING OVER 1/2" WOOD FIBERBOARD, OVER TAPERED ISOCYANURATE INSULATION, OVER 3/4" PERLITE, OVER 1-1/2" METAL DECK.



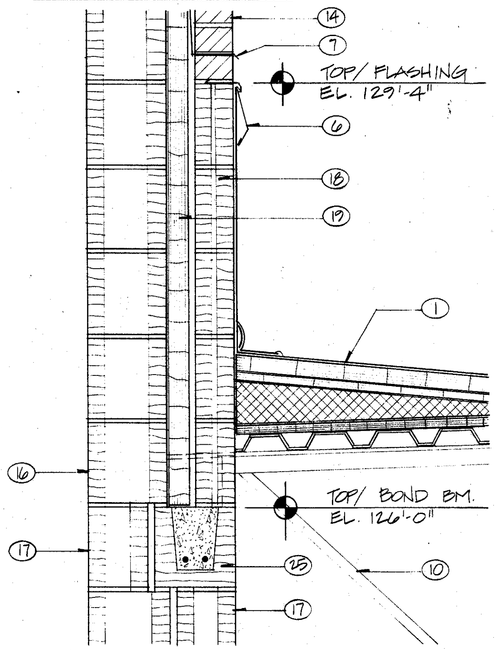
DETAIL 1-A13

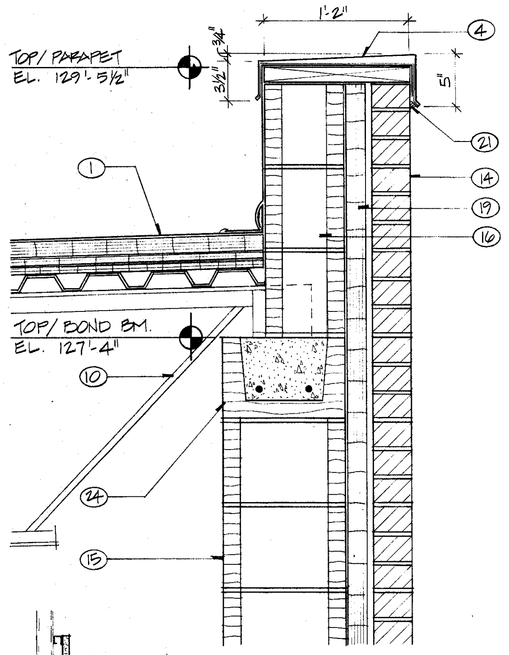


DETAIL 2-A13

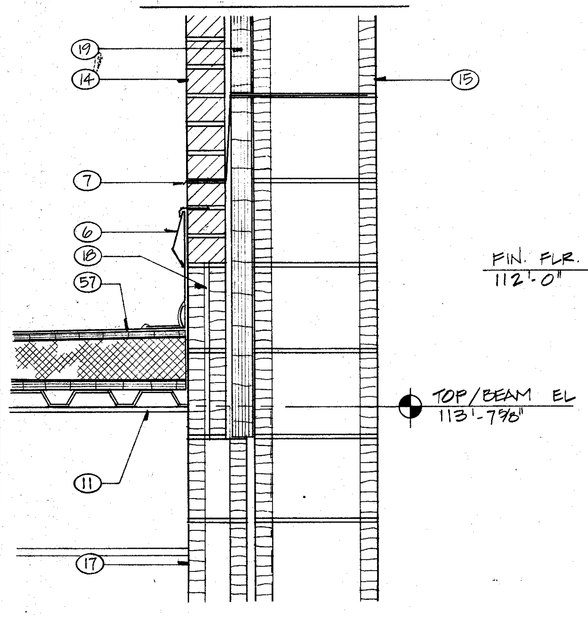


DETAIL 3-A13

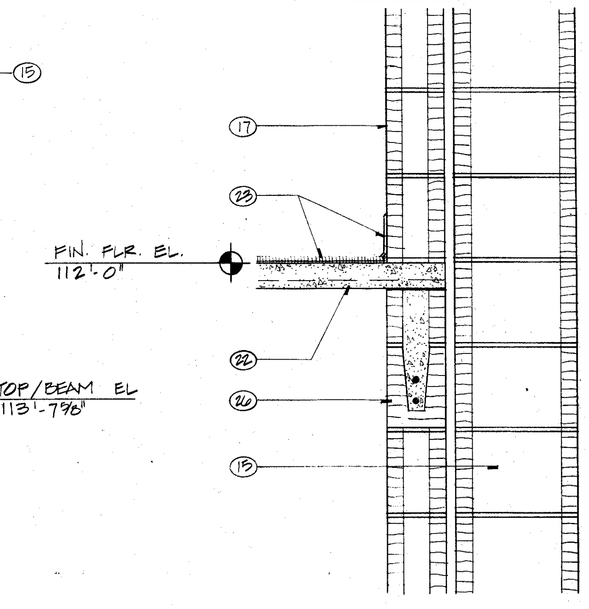




DETAIL 4-A13



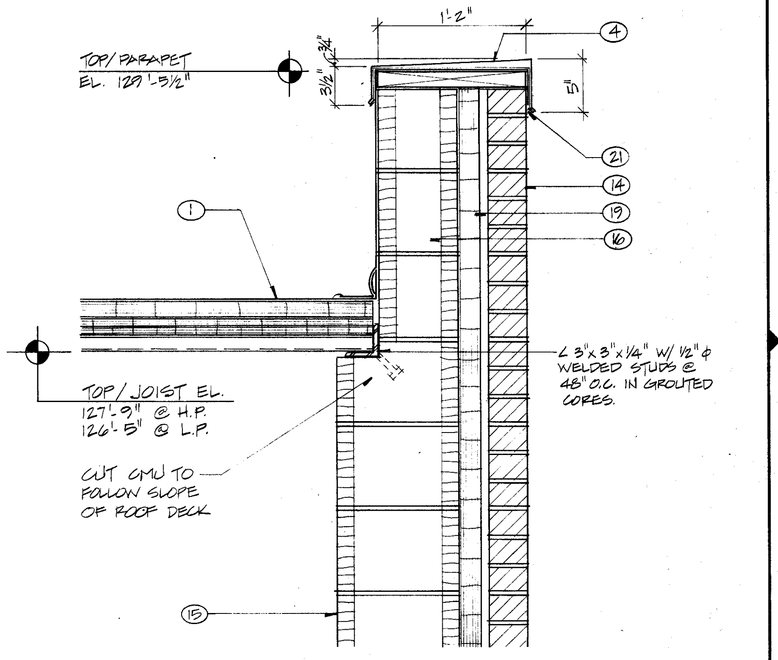
DETAIL 5-A13



DETAIL 6-A13



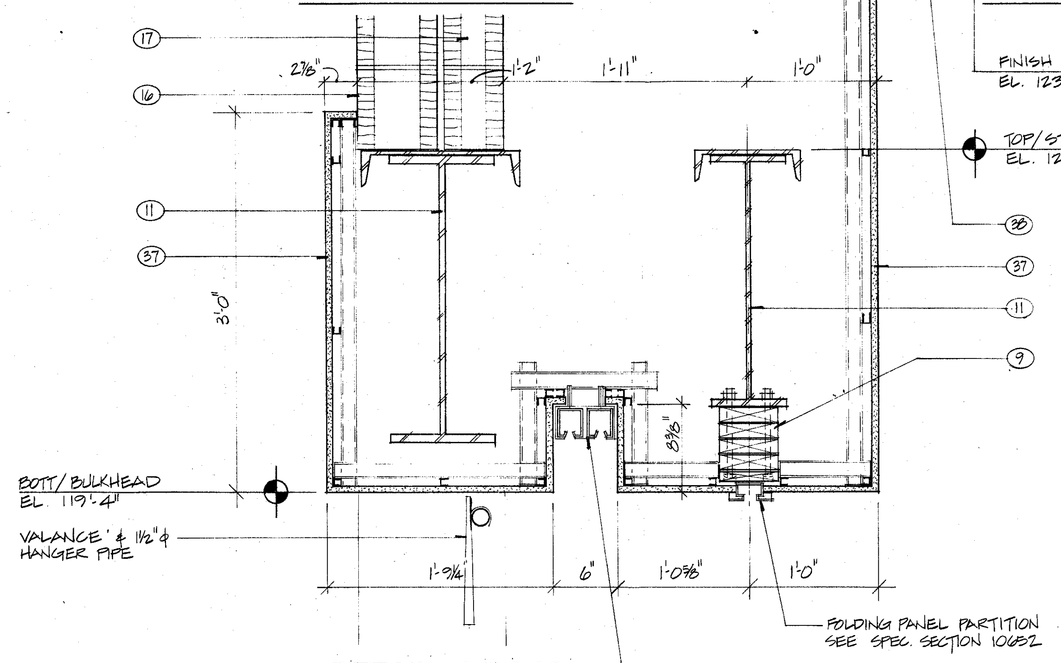
DETAIL 7-A13



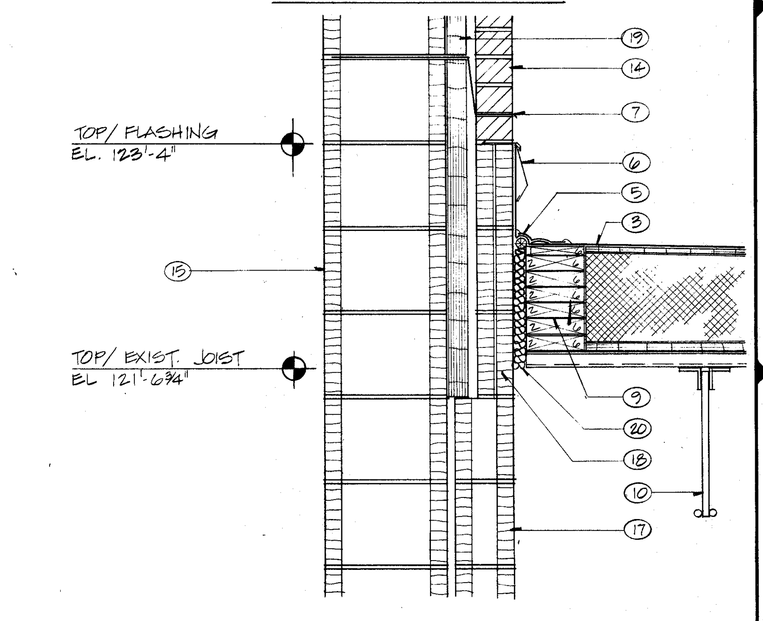
DETAIL 8-A13

DETAIL 9-A13

DETAIL 10-A13



DETAIL 11-A13



DETAIL 12-A13

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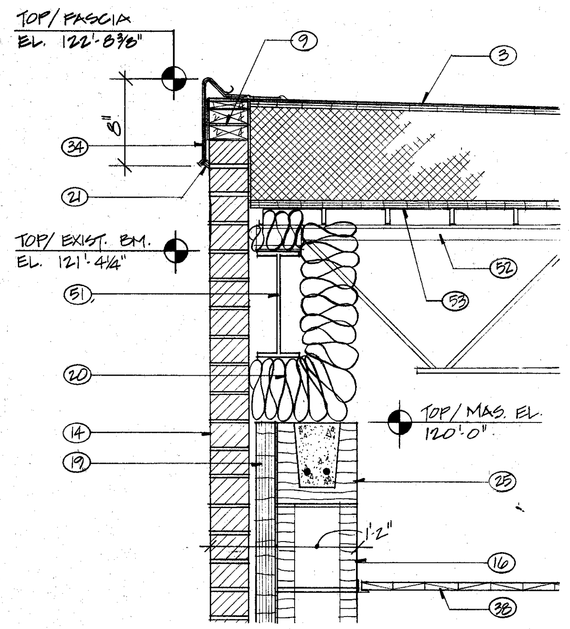
ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
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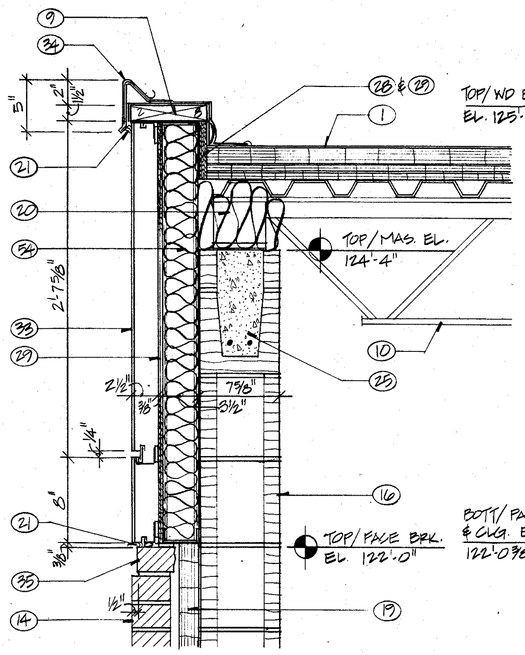
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DRAWN BY: EC COMM. NO.: 8455.00
CHECKED BY: 4 DATE: 11 NOV. 1985
REVISIONS NO. DATE

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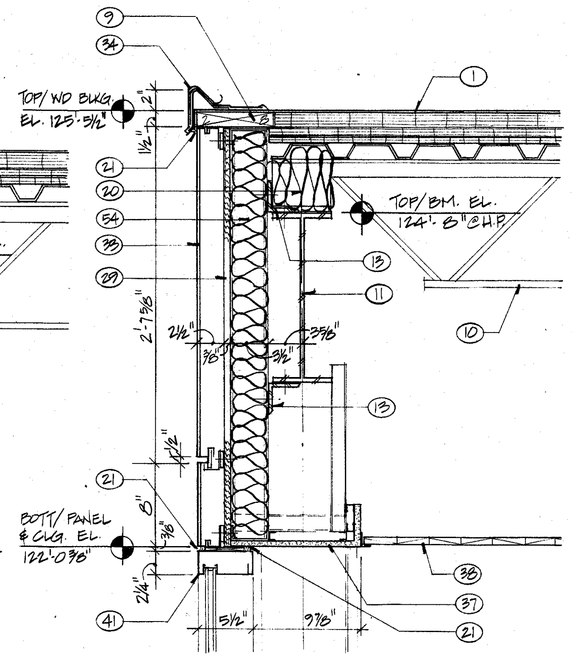
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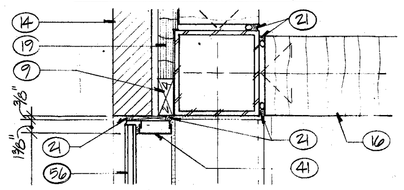
DETAIL 1-A14



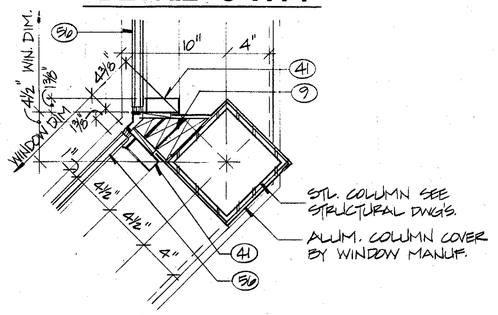
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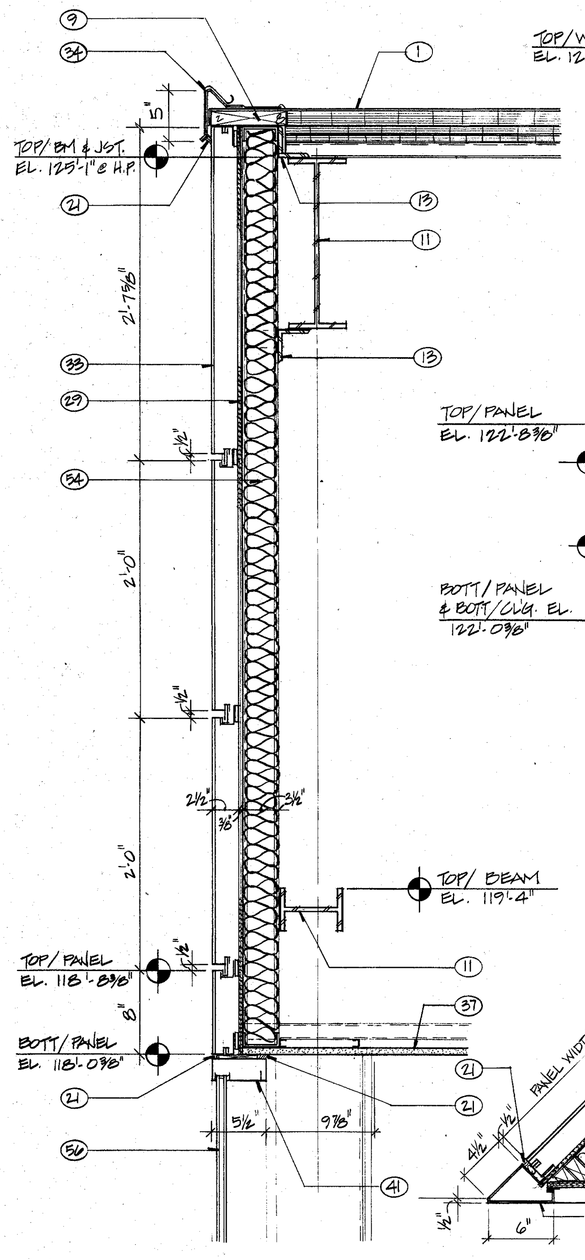
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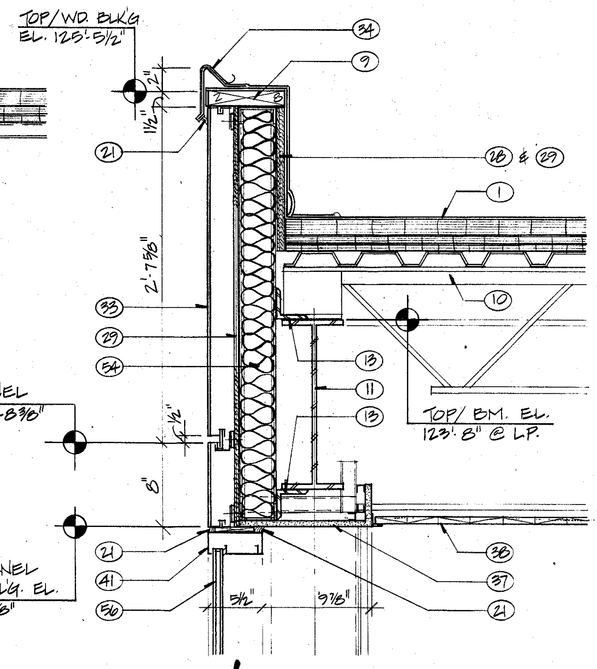


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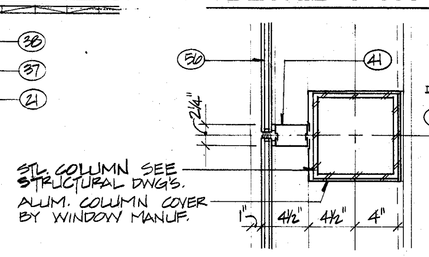


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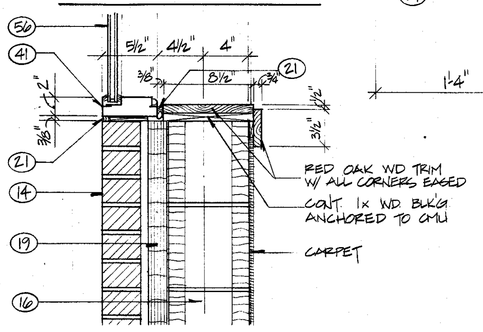


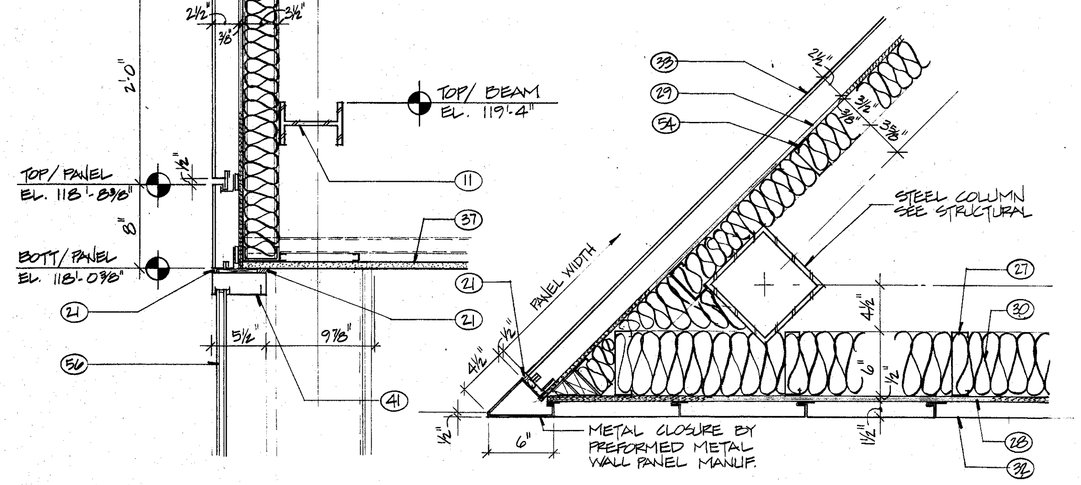


DETAIL 9-A14



DETAIL 10-A14

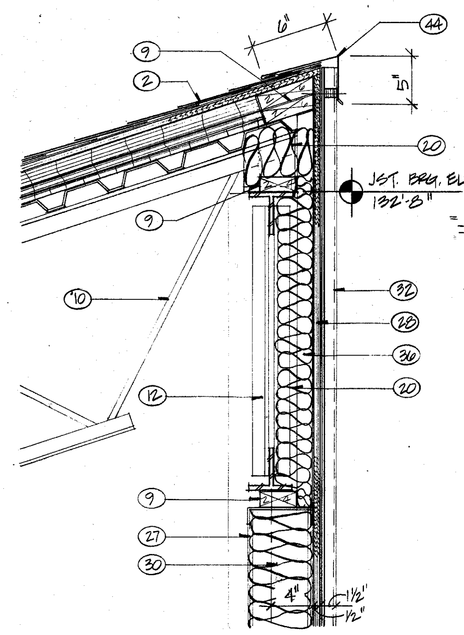




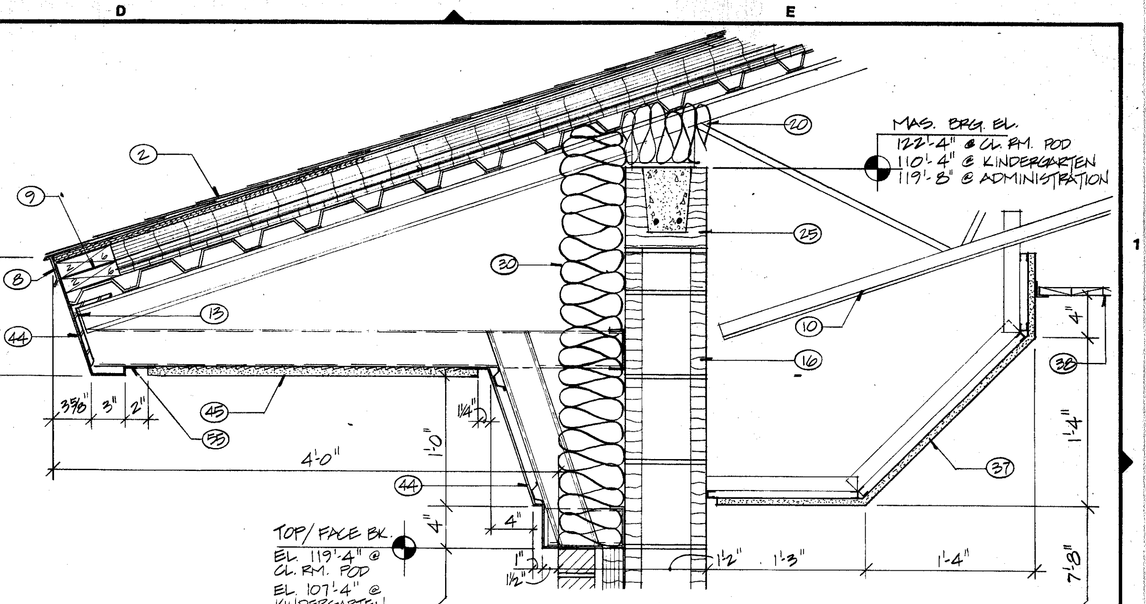
DETAIL 11-A14

DETAIL 12-A14

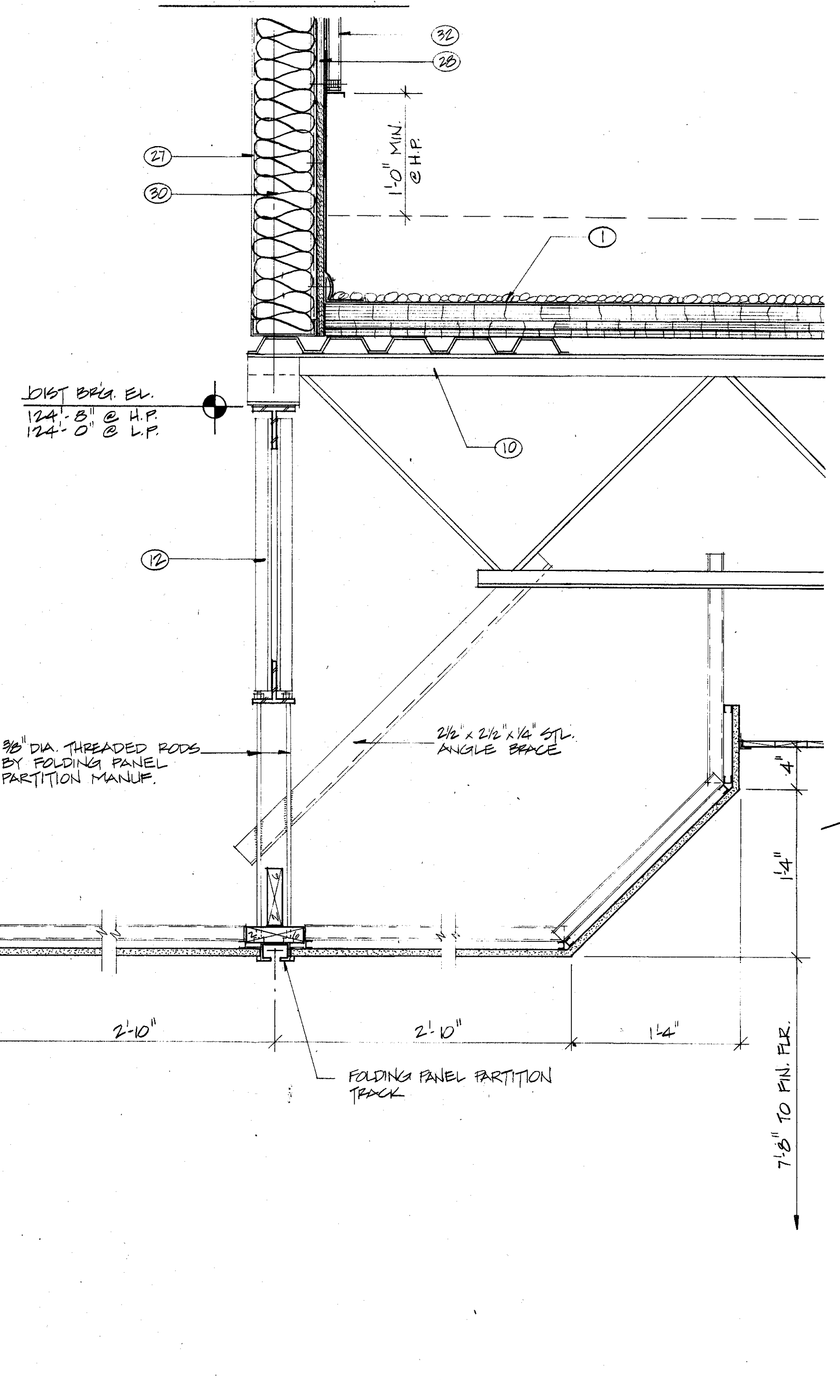
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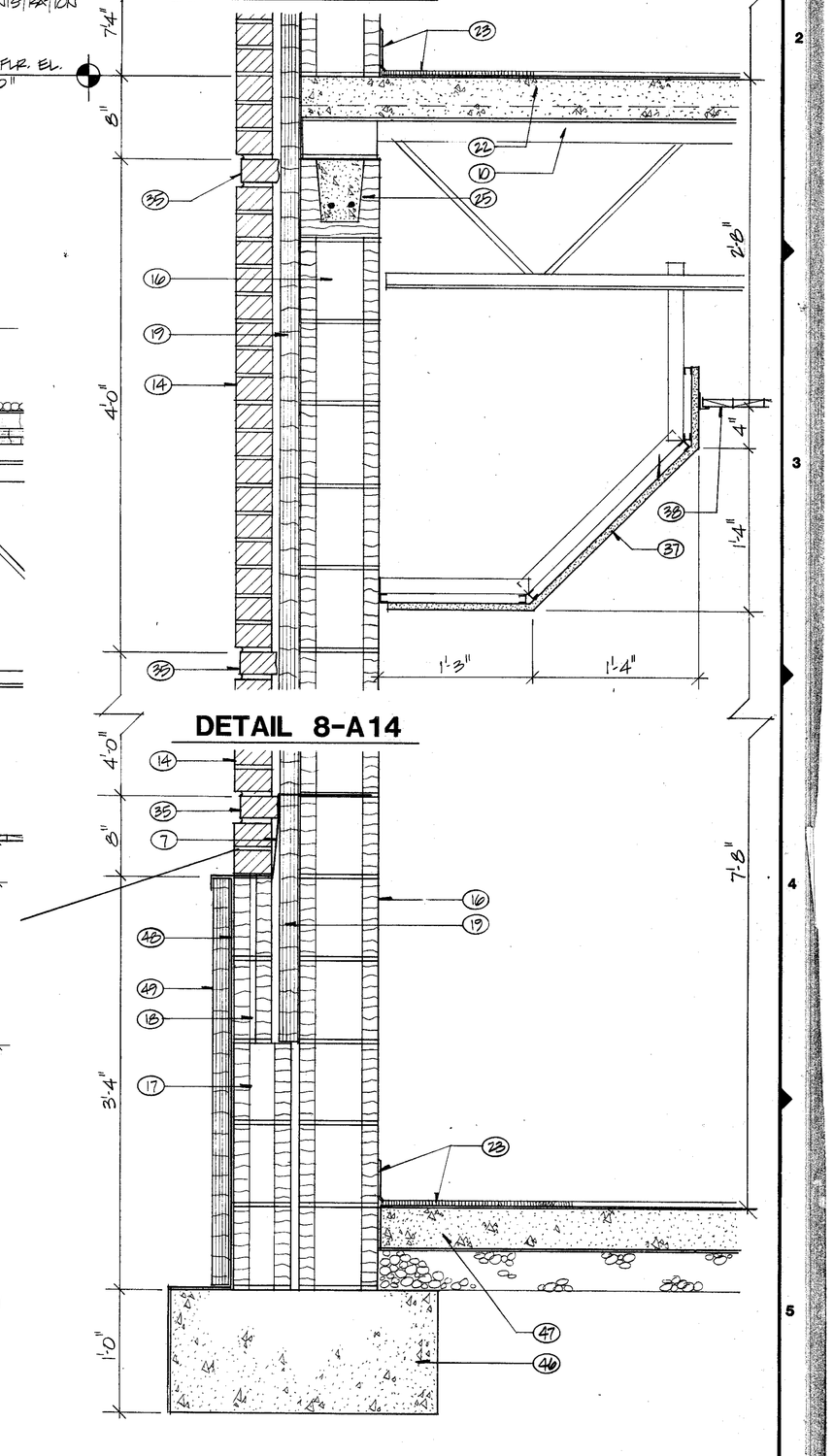
DETAIL 4-A14



DETAIL 5-A14



DETAIL 14-A14



DETAIL 8-A14

DETAIL 15-A14

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

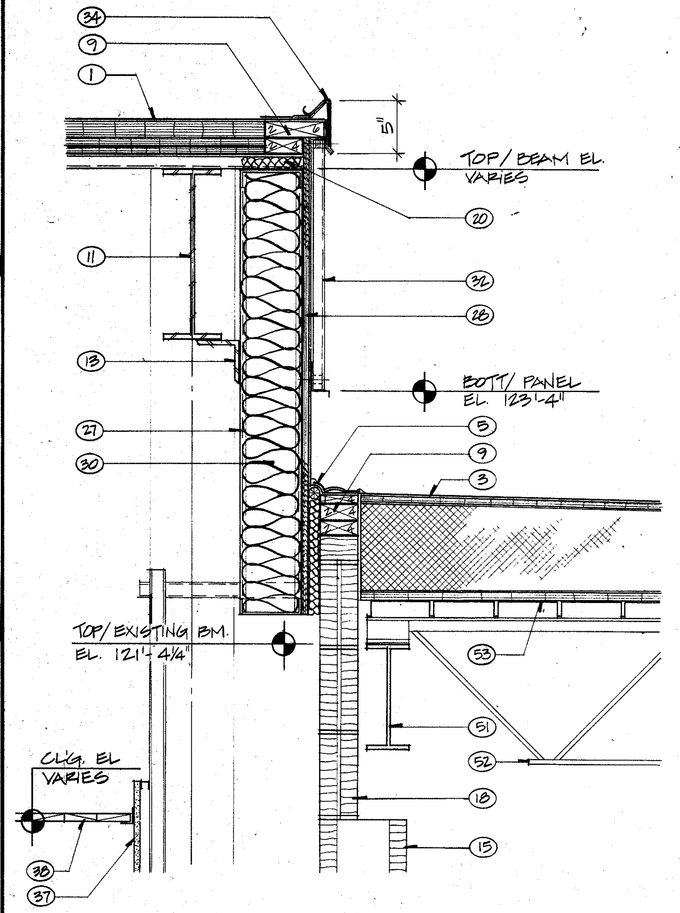
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ARCHITECTS / ENGINEERS / CONSULTANTS

DETAILS

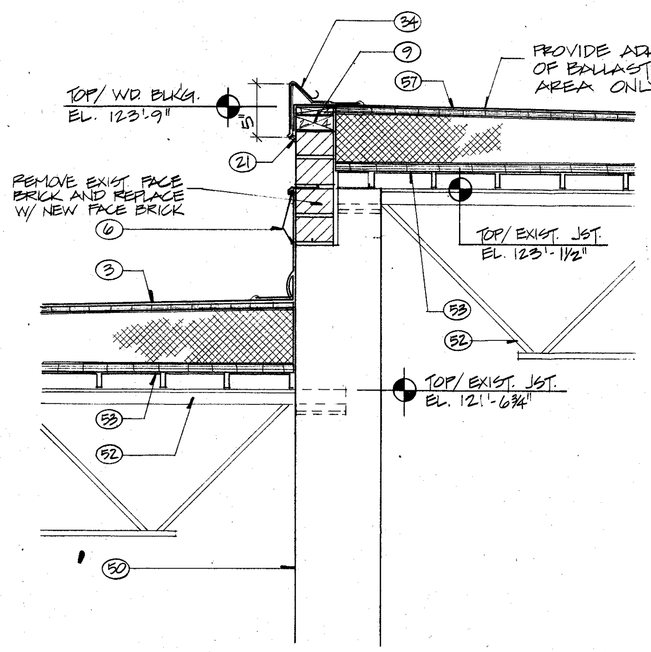
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CHECKED BY: 4 | DATE: 11 NOV. 1985
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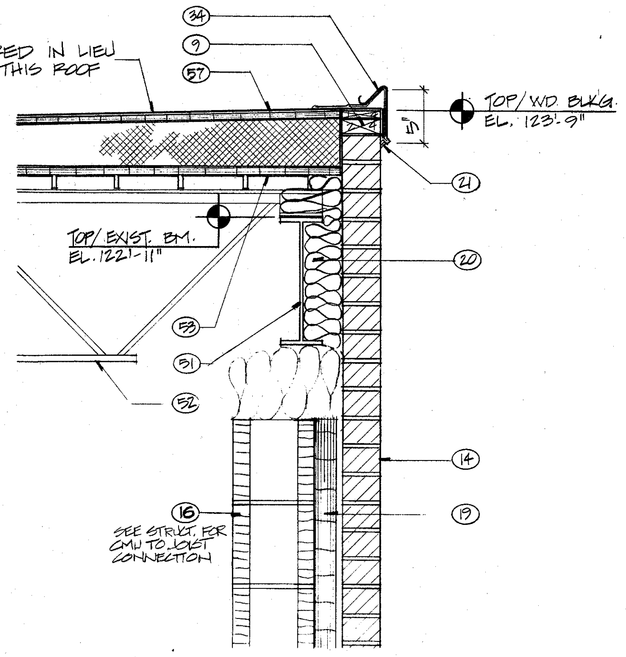
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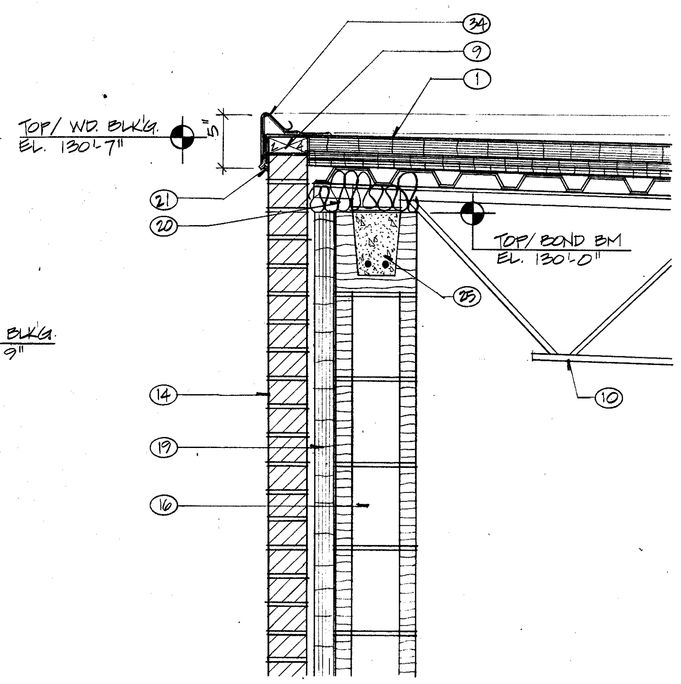
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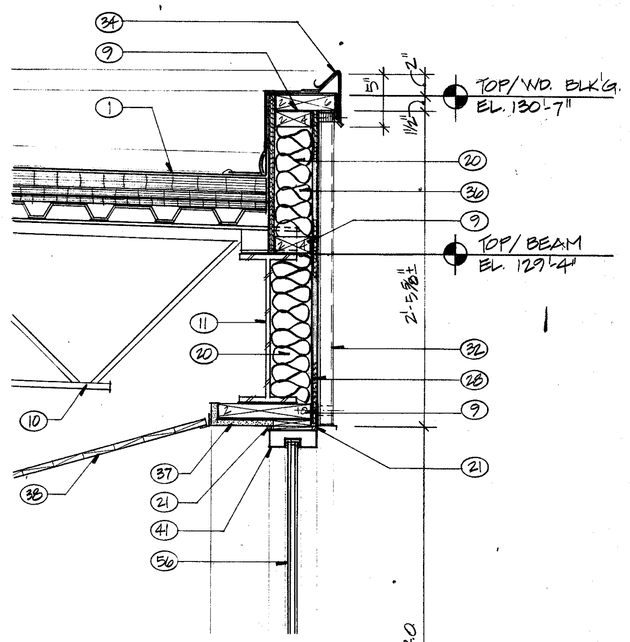
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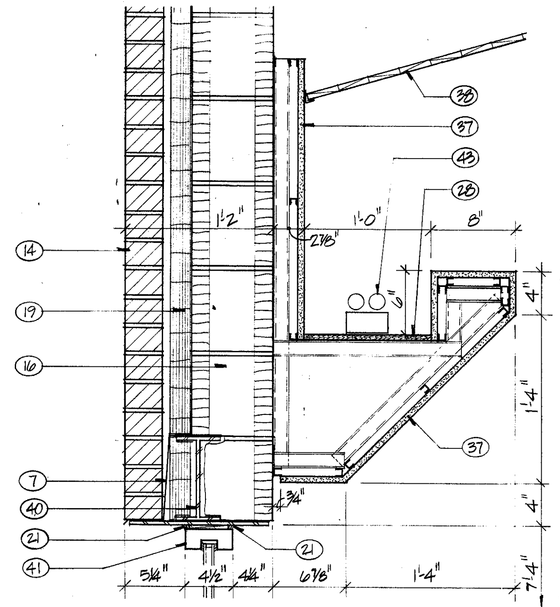
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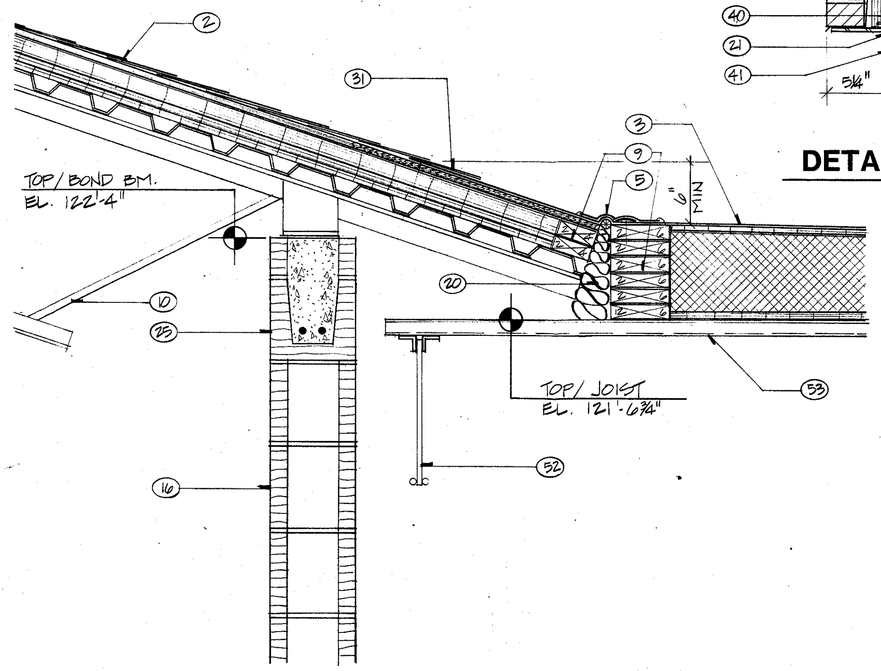
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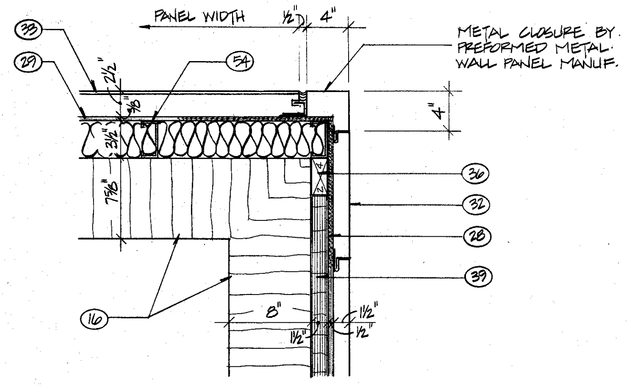
DETAIL 7-A15

DETAIL 9-A15



DETAIL 10-A15

DETAIL 11-A15



DETAIL 8-A15

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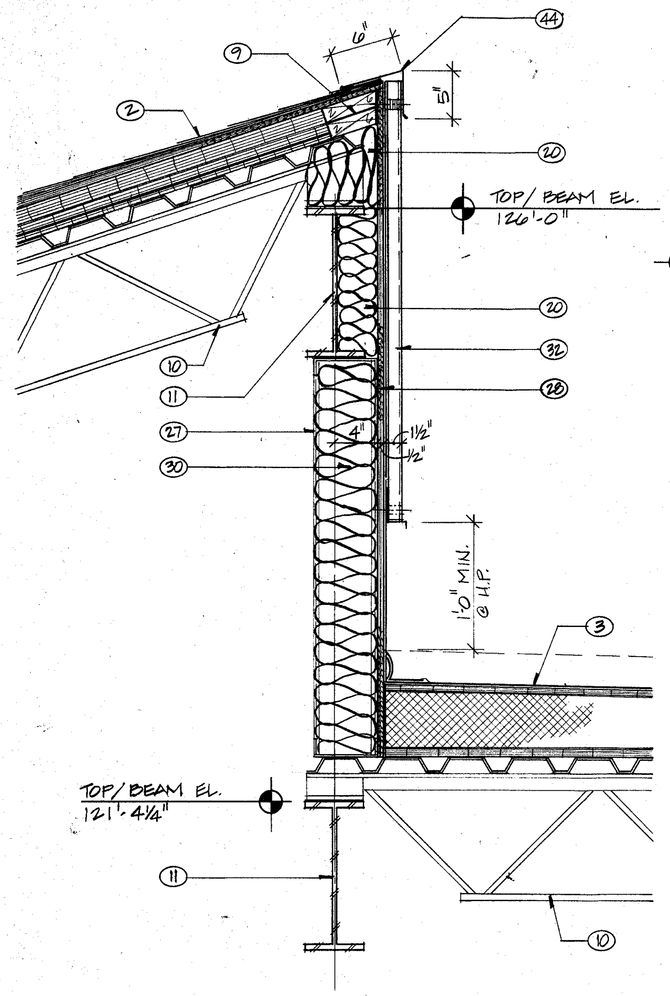
ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

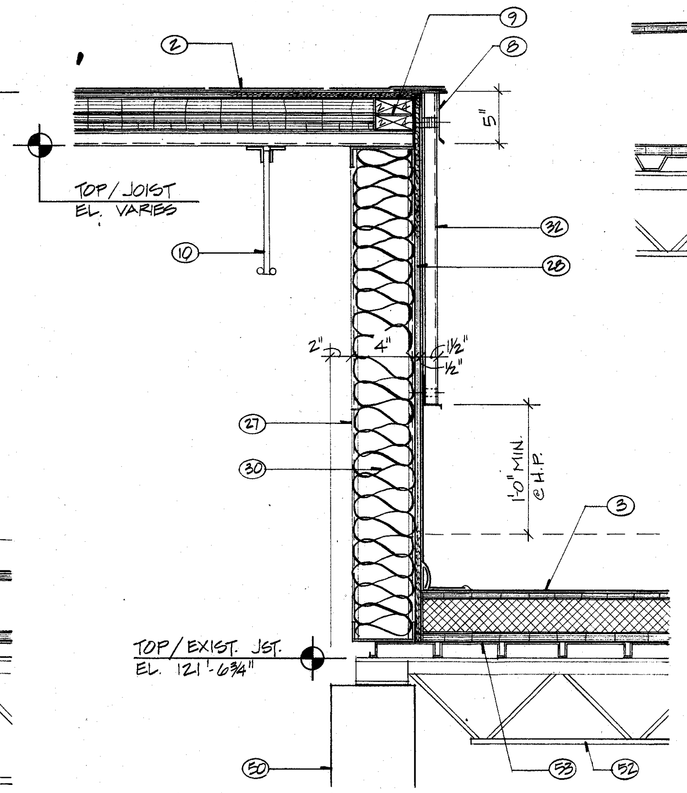
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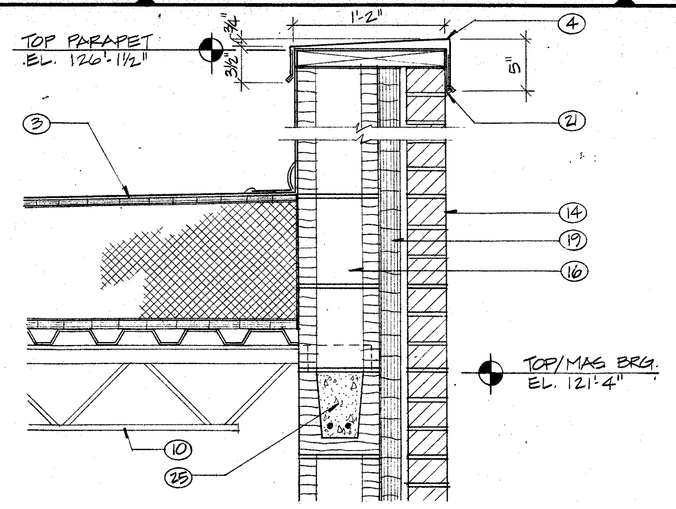
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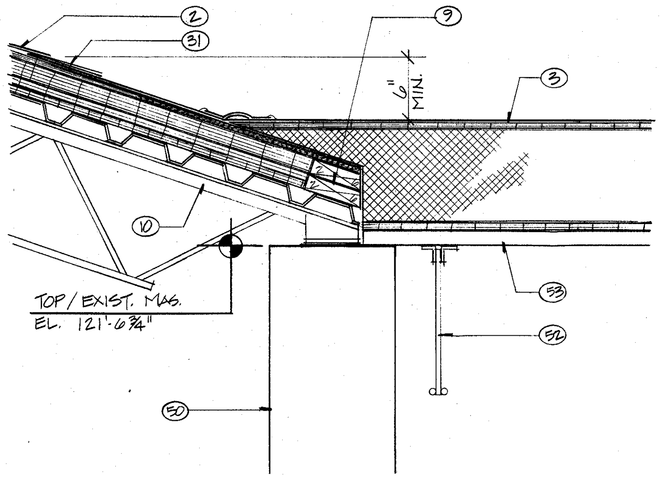
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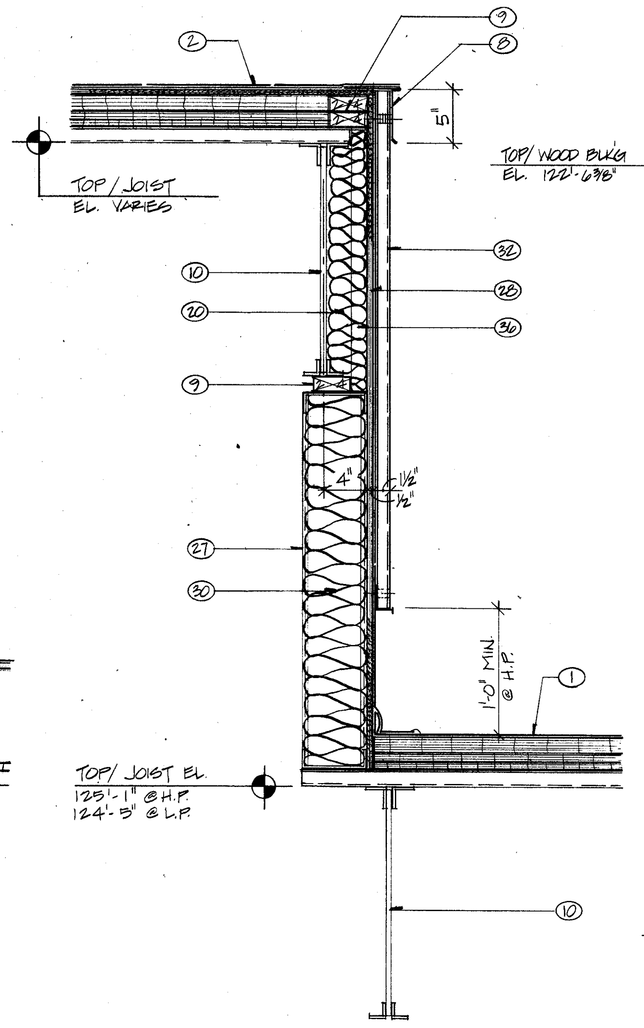
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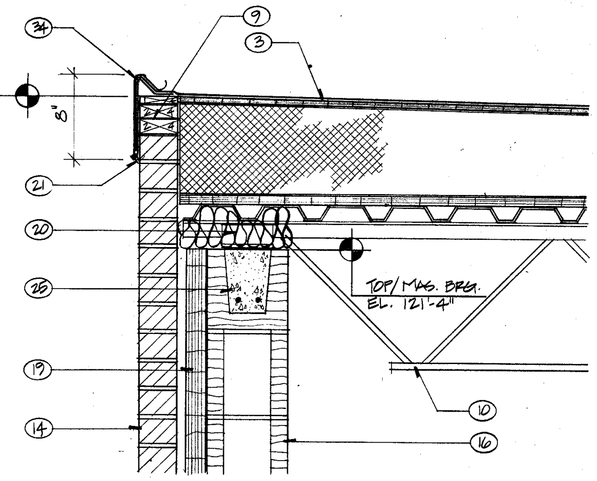
DETAIL 12-A16



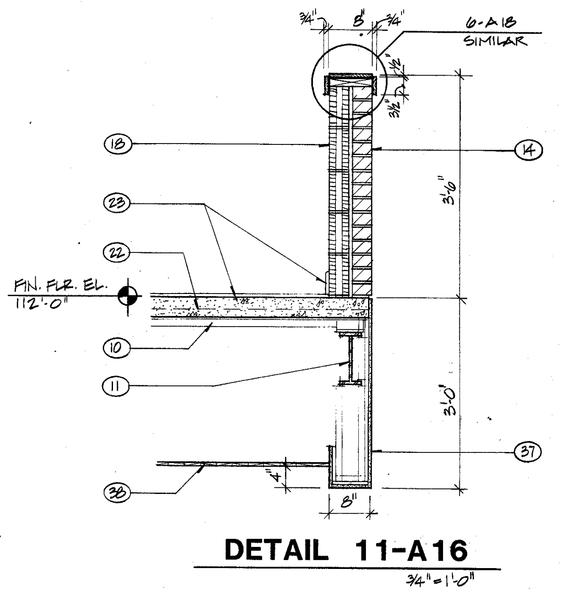
DETAIL 3-A16



DETAIL 4-A16



DETAIL 5-A16

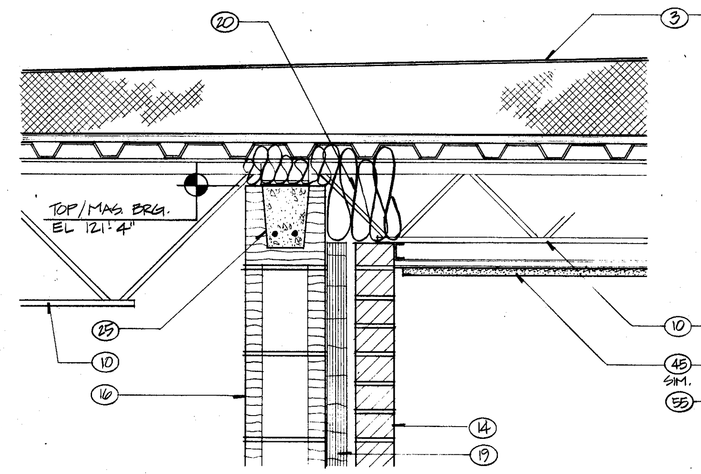


DETAIL 11-A16
3/4"=1'-0"

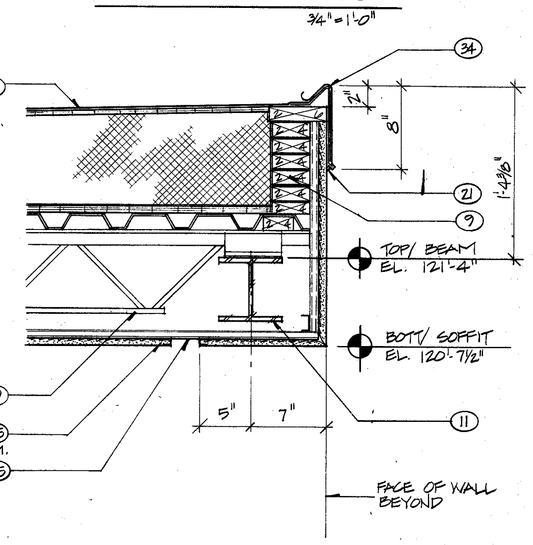
DETAIL 6-A16

DETAIL 7-A16

DETAIL 8-A16



DETAIL 9-A16



DETAIL 10-A16

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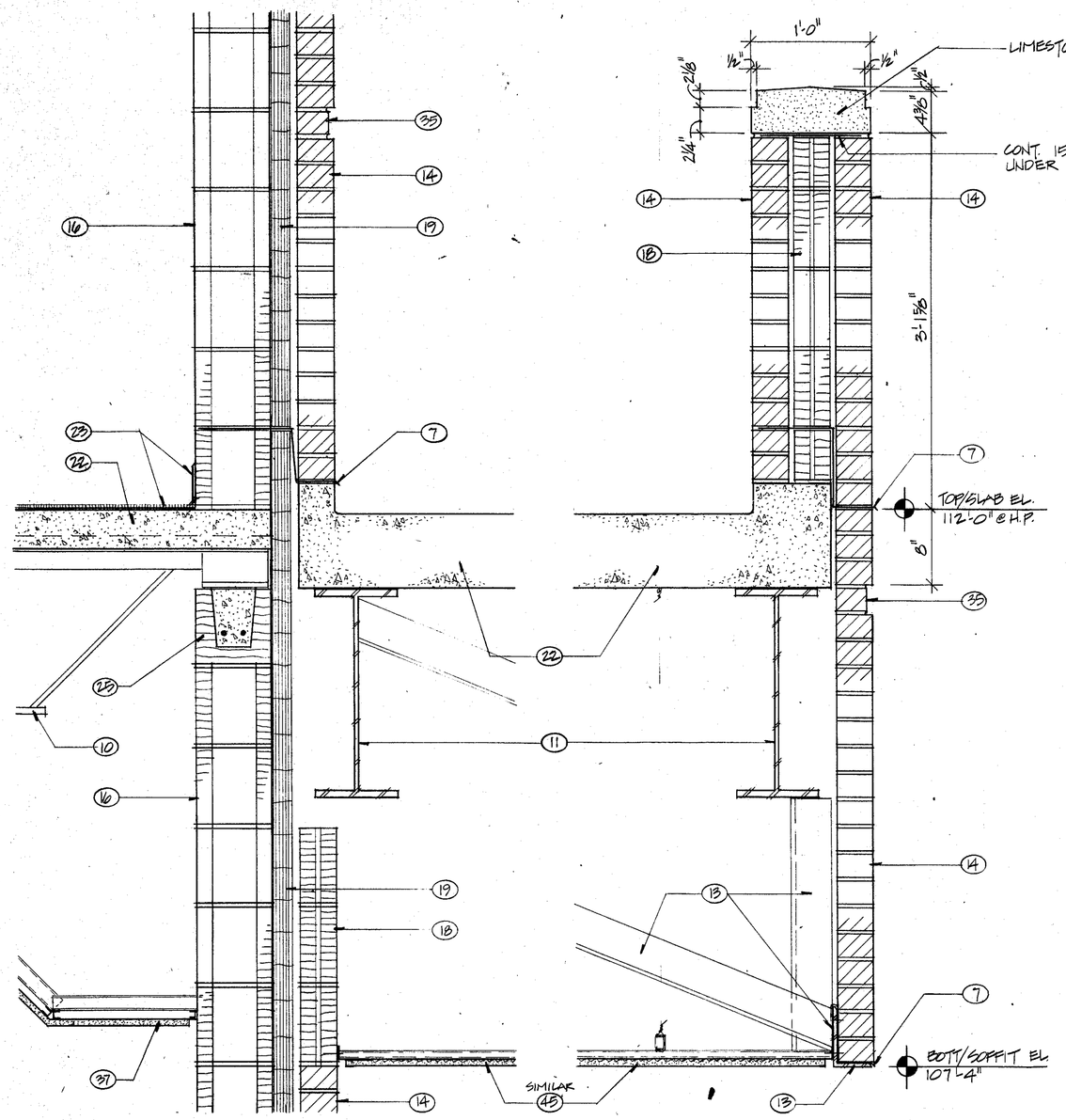
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DETAILS

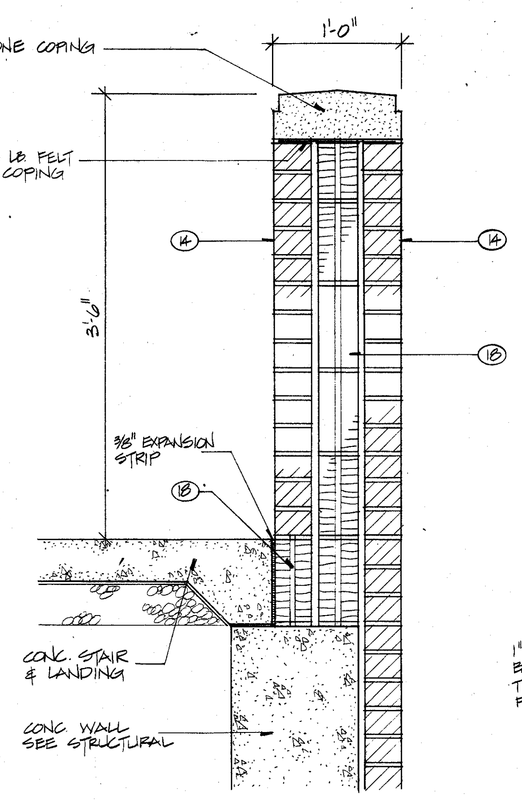
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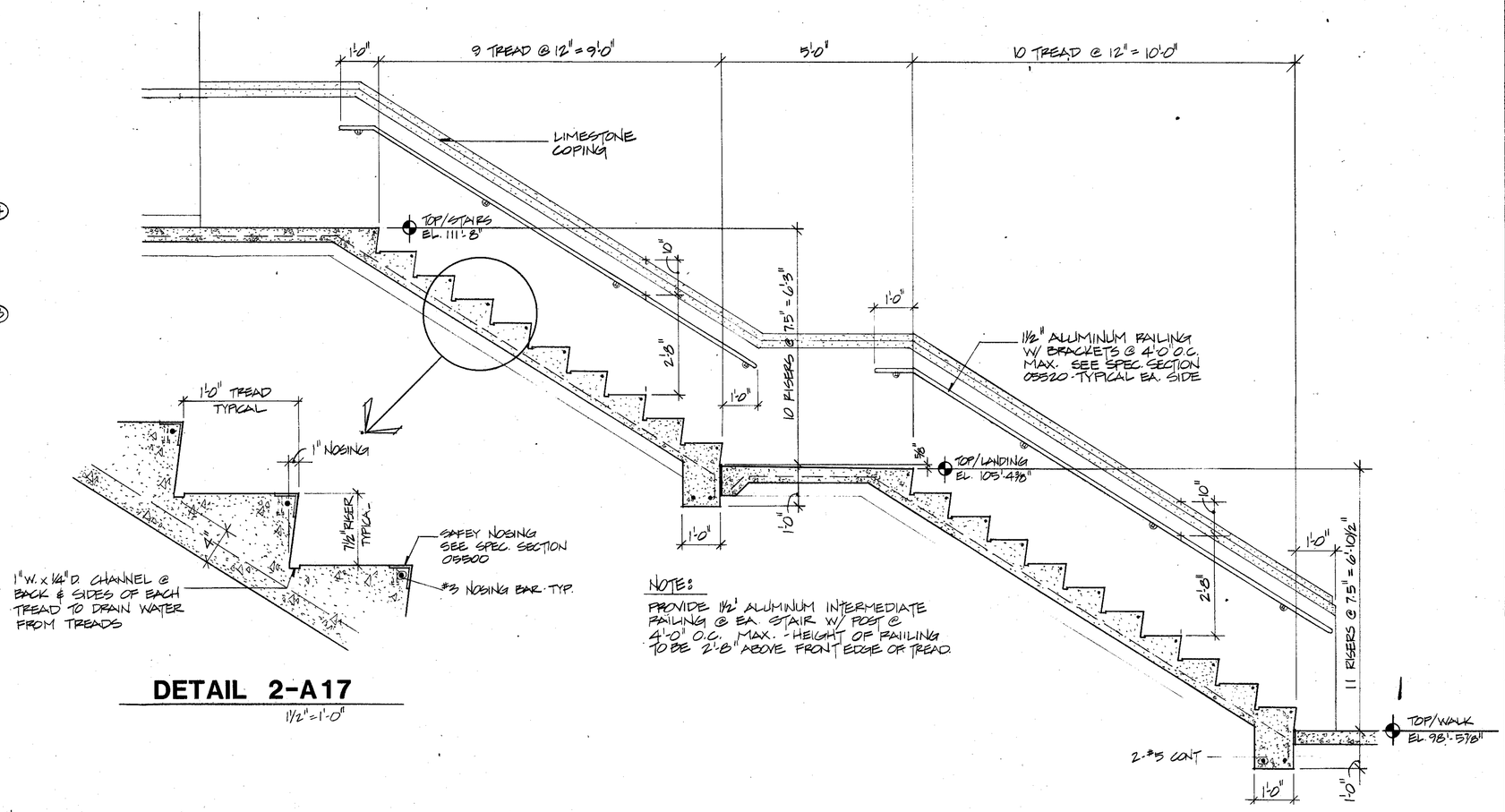
ELM ROAD 8455.00



DETAIL 4-A17



DETAIL 3-A17

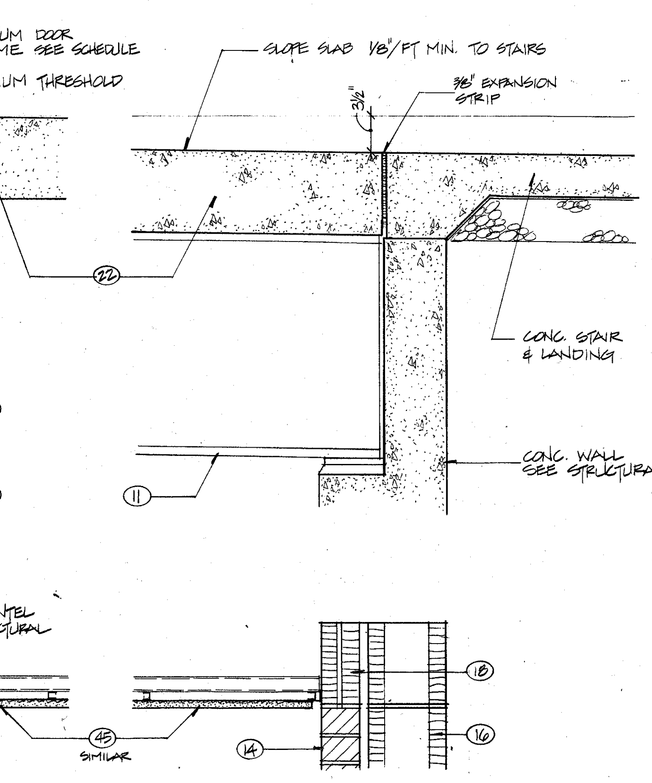


DETAIL 2-A17

1½" = 1'-0"

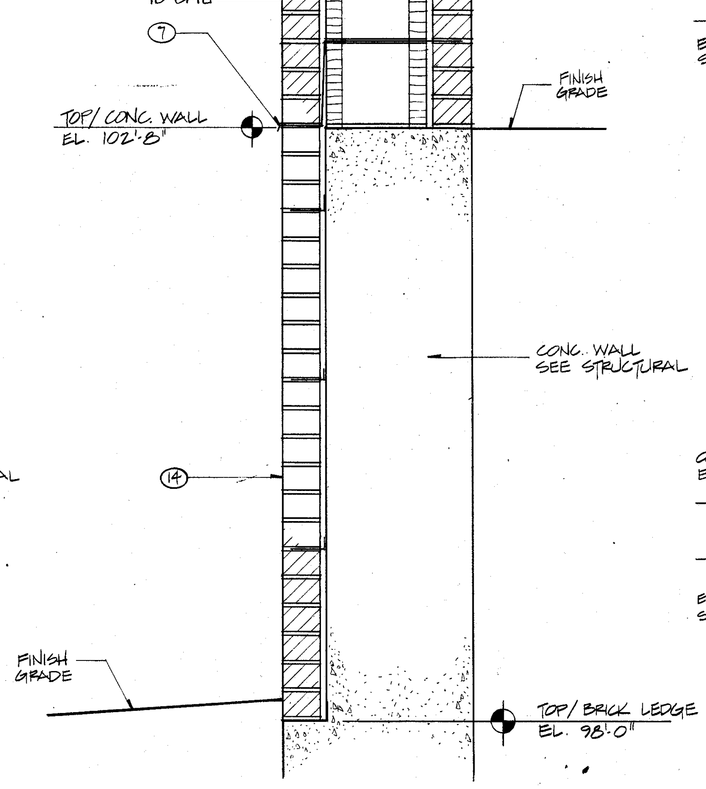
STAIR SECTION 1-A17

SCALE ½" = 1'-0"

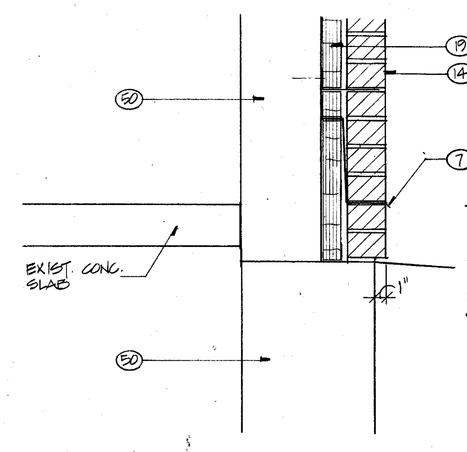


DETAIL 7-A17

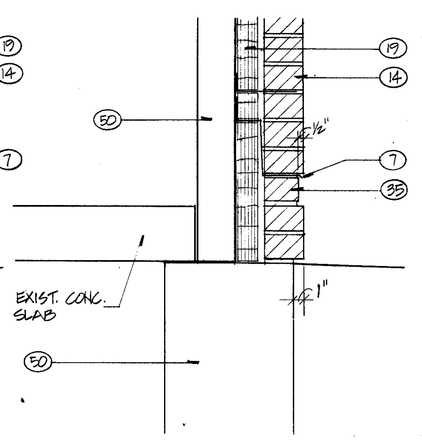
DETAIL 8-A17



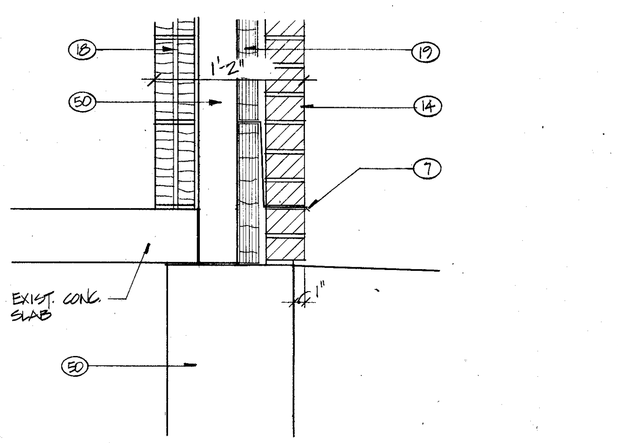
DETAIL 9-A17



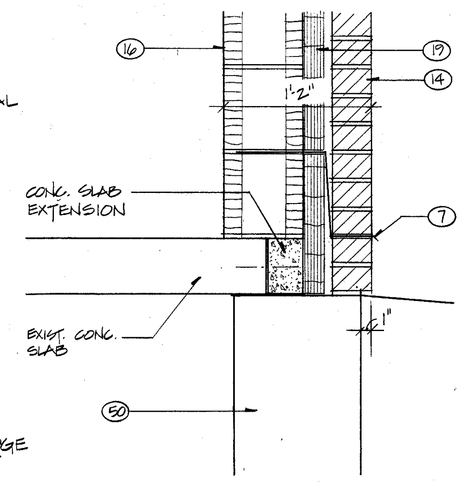
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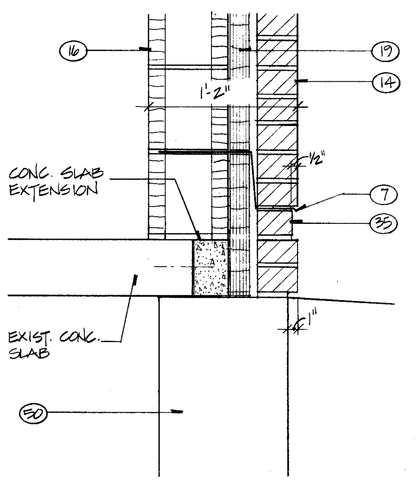
DETAIL 11-A17



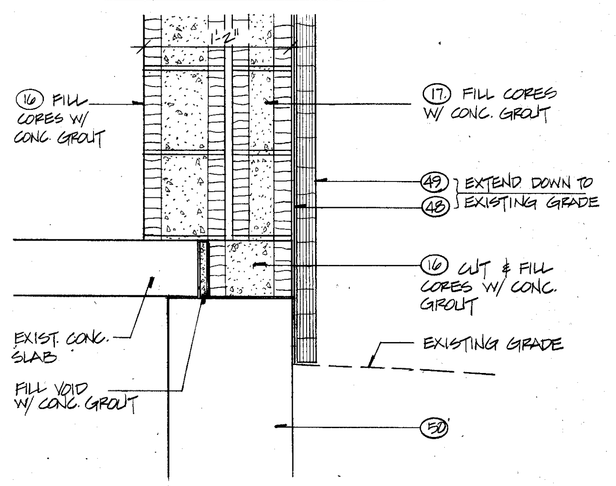
DETAIL 12-A17



DETAIL 13-A17



DETAIL 14-A17



DETAIL 15-A17

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ELM ROAD ELEMENTARY SCHOOL
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MISHAWAKA, INDIANA

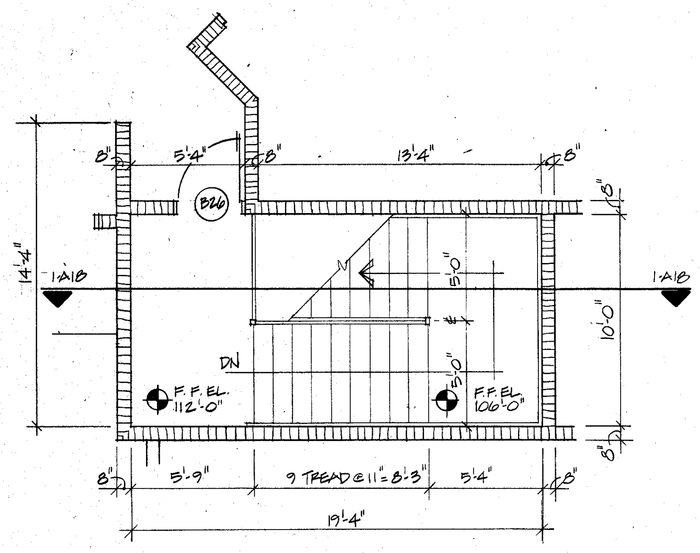
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DETAILS

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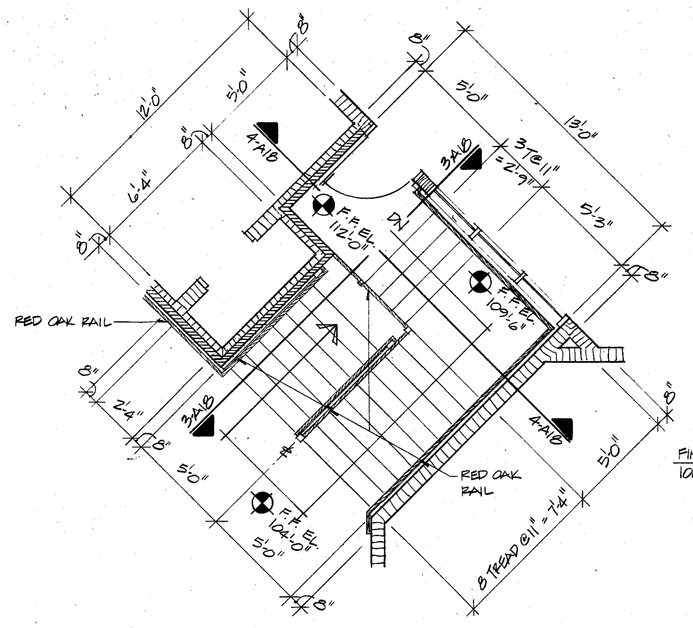
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ELM ROAD 8455.00



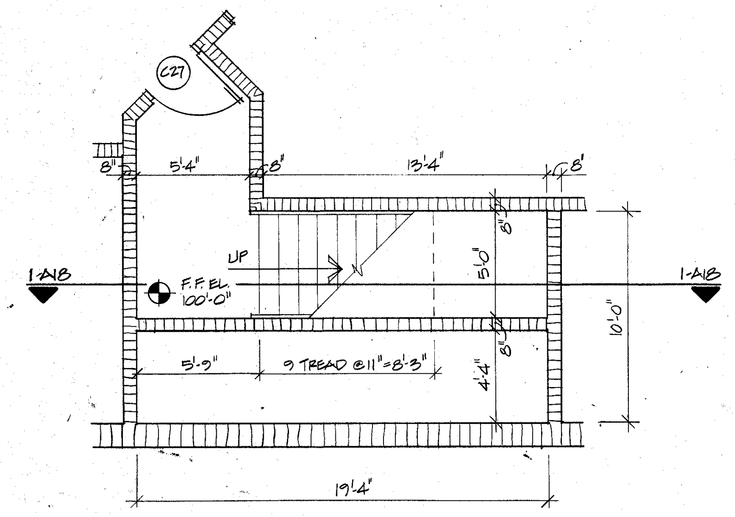
PLAN OF STAIR B26

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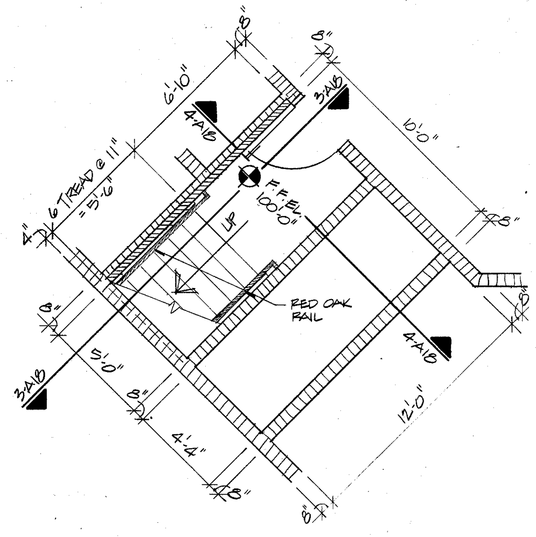
PLAN OF STAIR B5

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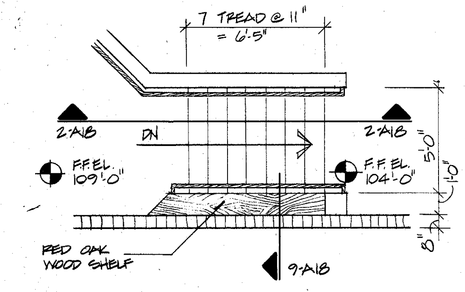
PLAN OF STAIR C27

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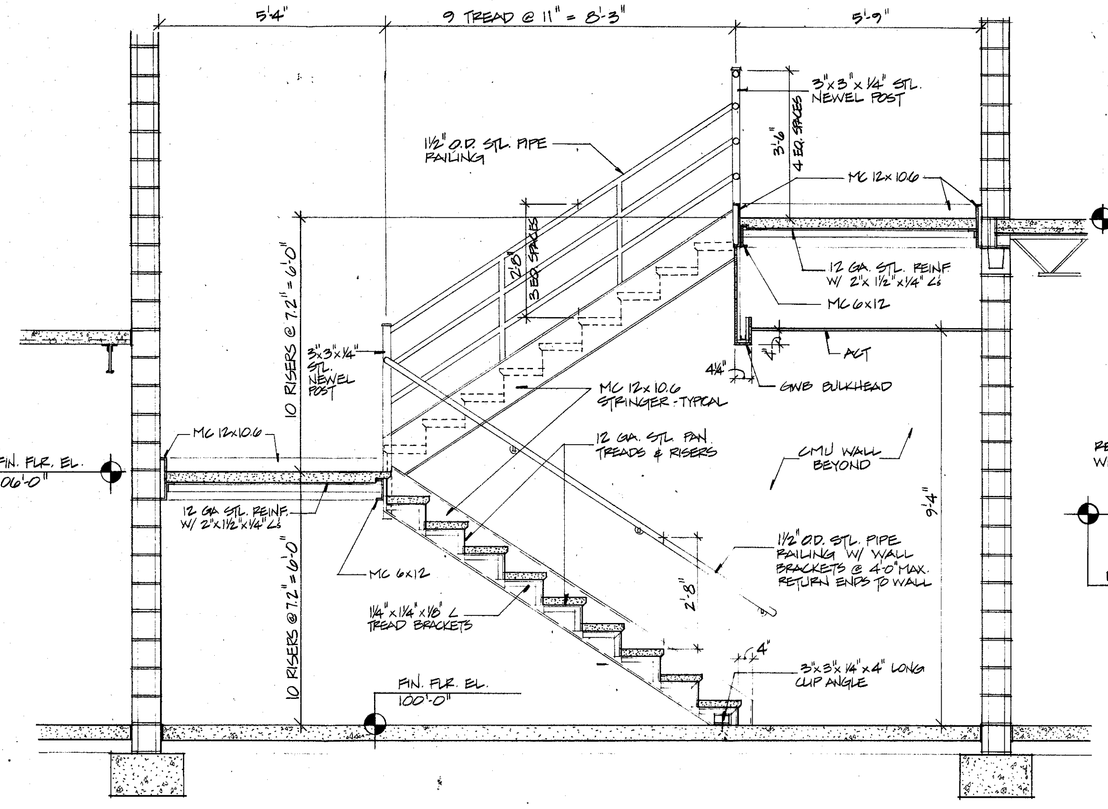
PLAN OF STAIR C4

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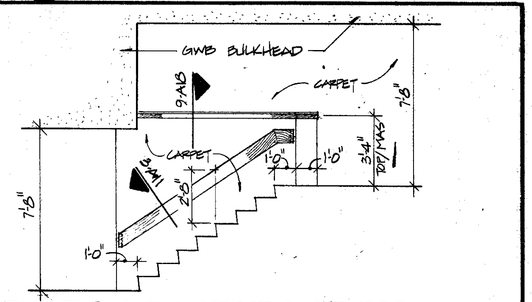
PLAN OF STAIRS AT IMC A29

1/4" = 1'-0"



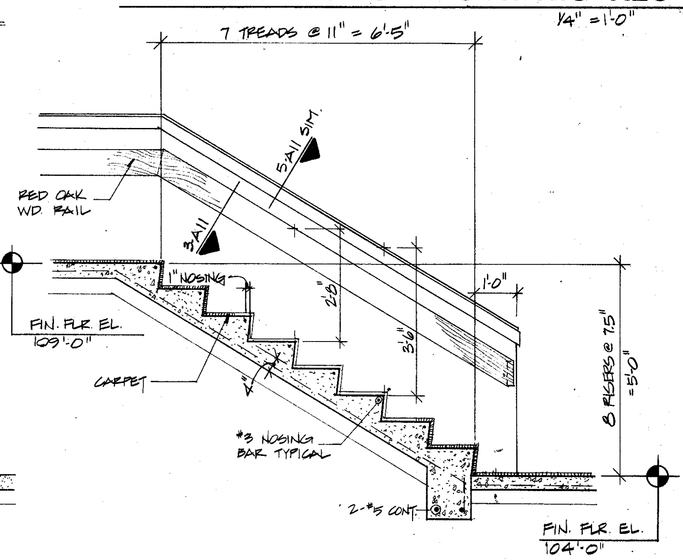
STAIR SECTION 1-A18

1/2" = 1'-0"



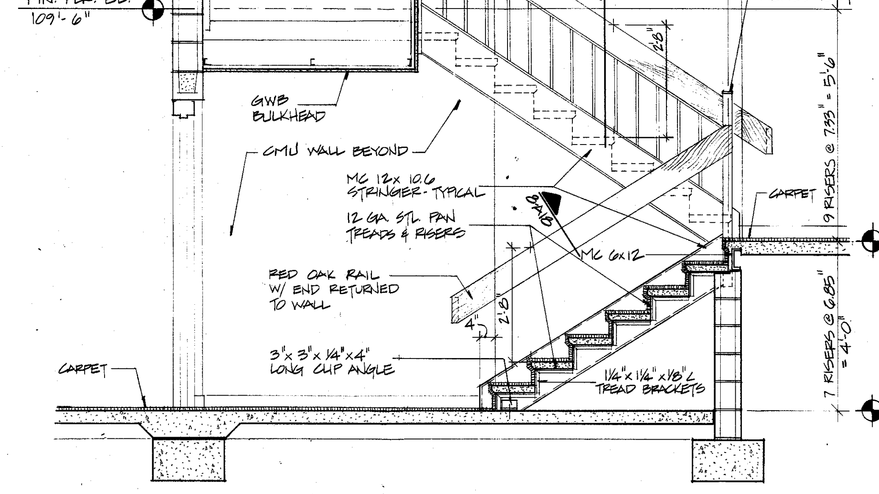
ELEVATION OF STAIRS AT IMC A29

1/4" = 1'-0"



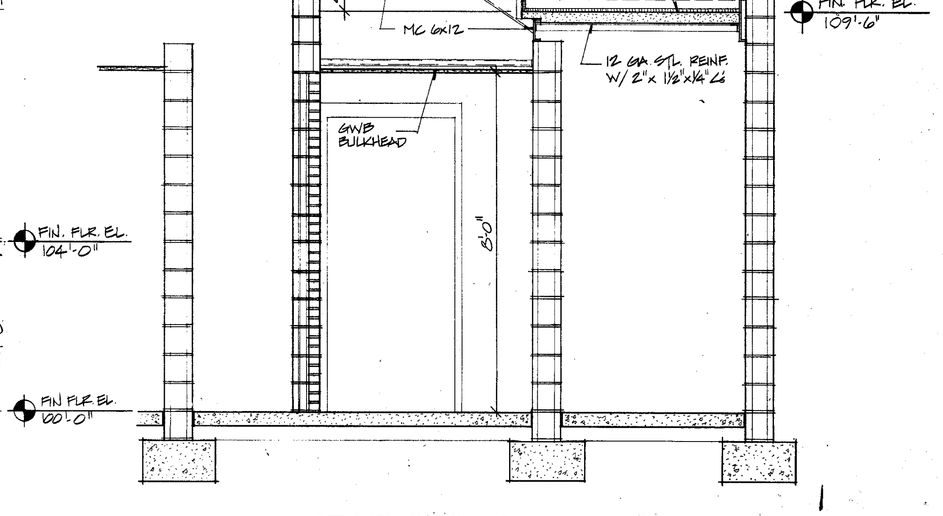
STAIR SECTION 2-A18

1/2" = 1'-0"



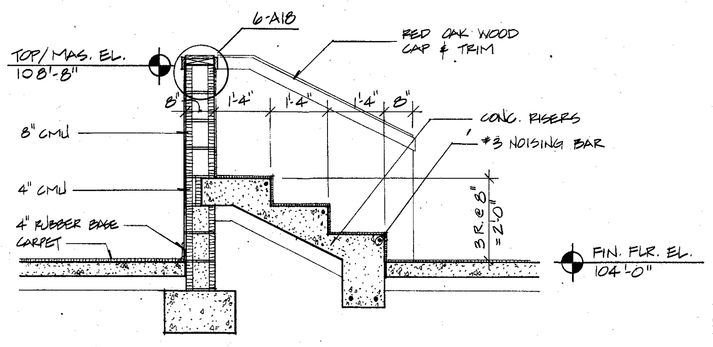
STAIR SECTION 3-A18

1/2" = 1'-0"



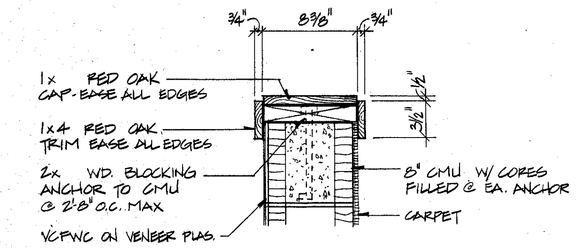
STAIR SECTION 4-A18

1/2" = 1'-0"



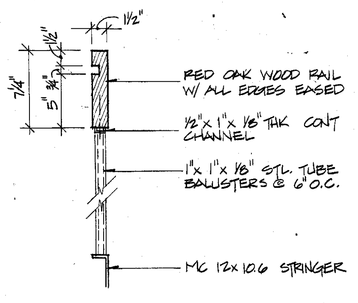
SEATING RISER SECTION 5-A18

1/2" = 1'-0"



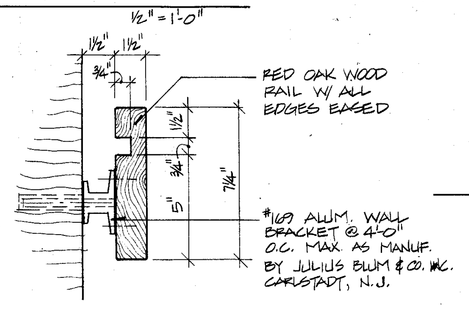
CAP DETAIL 6-A18

1½" = 1'-0"



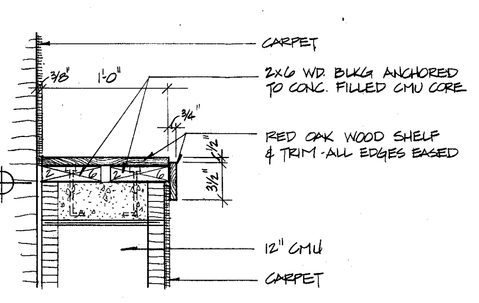
RAIL DETAIL 7-A18

1½" = 1'-0"



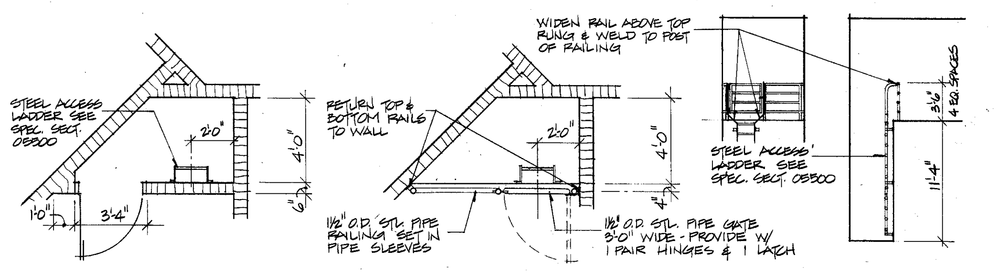
RAIL DETAIL 8-A18

3" = 1'-0"



SHELF DETAIL 9-A18

1½" = 1'-0"



PLANS & DETAILS OF ACCESS LADDER TO FAN ROOM B36 10-A18

PLANS 1/4" = 1'-0" DETAILS 1/8" = 1'-0"

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

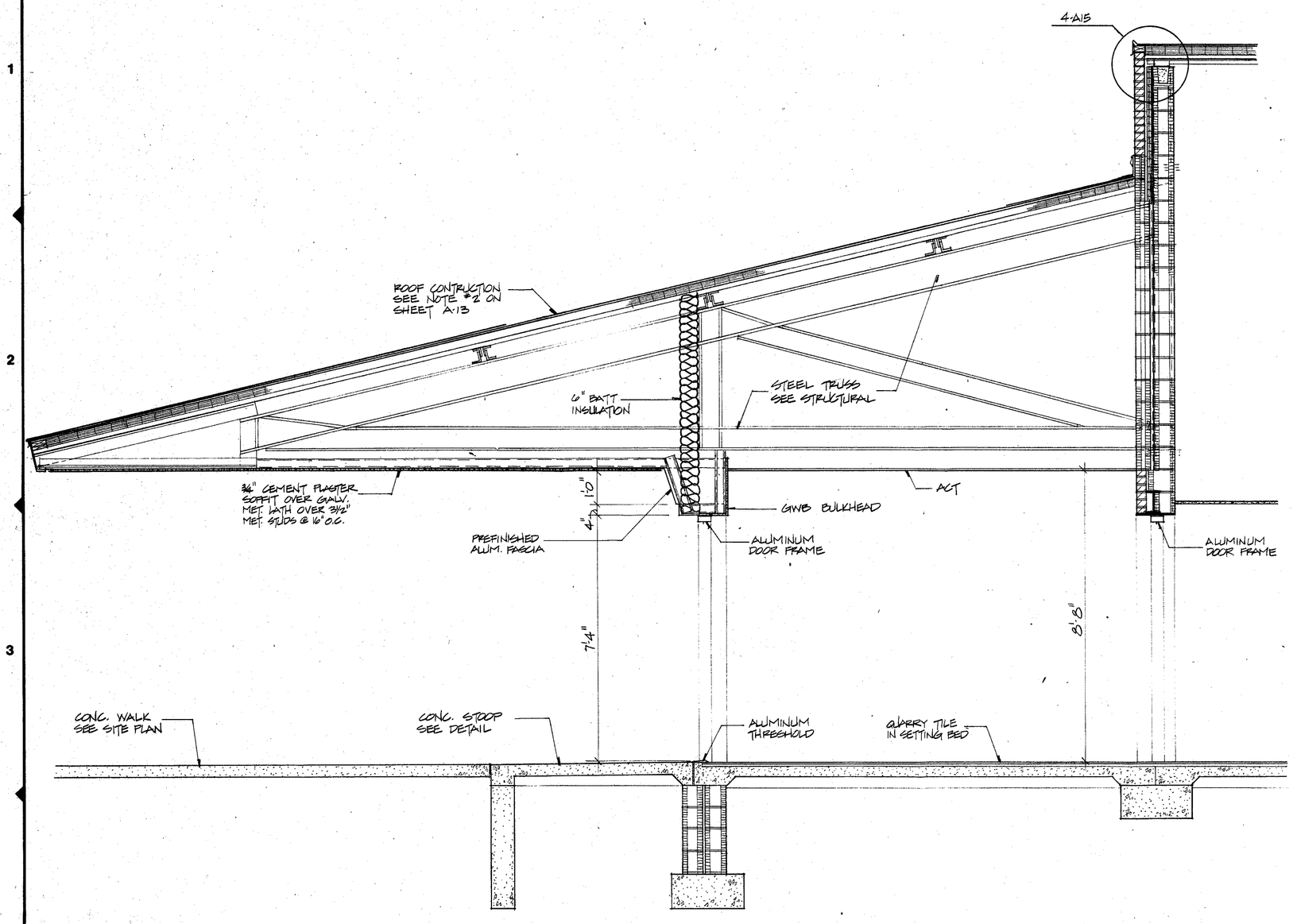
FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

STAIR PLANS & SECTIONS

DRAWN BY: RJC COMM. NO.: ~~8455.00~~
CHECKED BY: 4 DATE: 11 NOV. 1985
REVISIONS NO. DATE

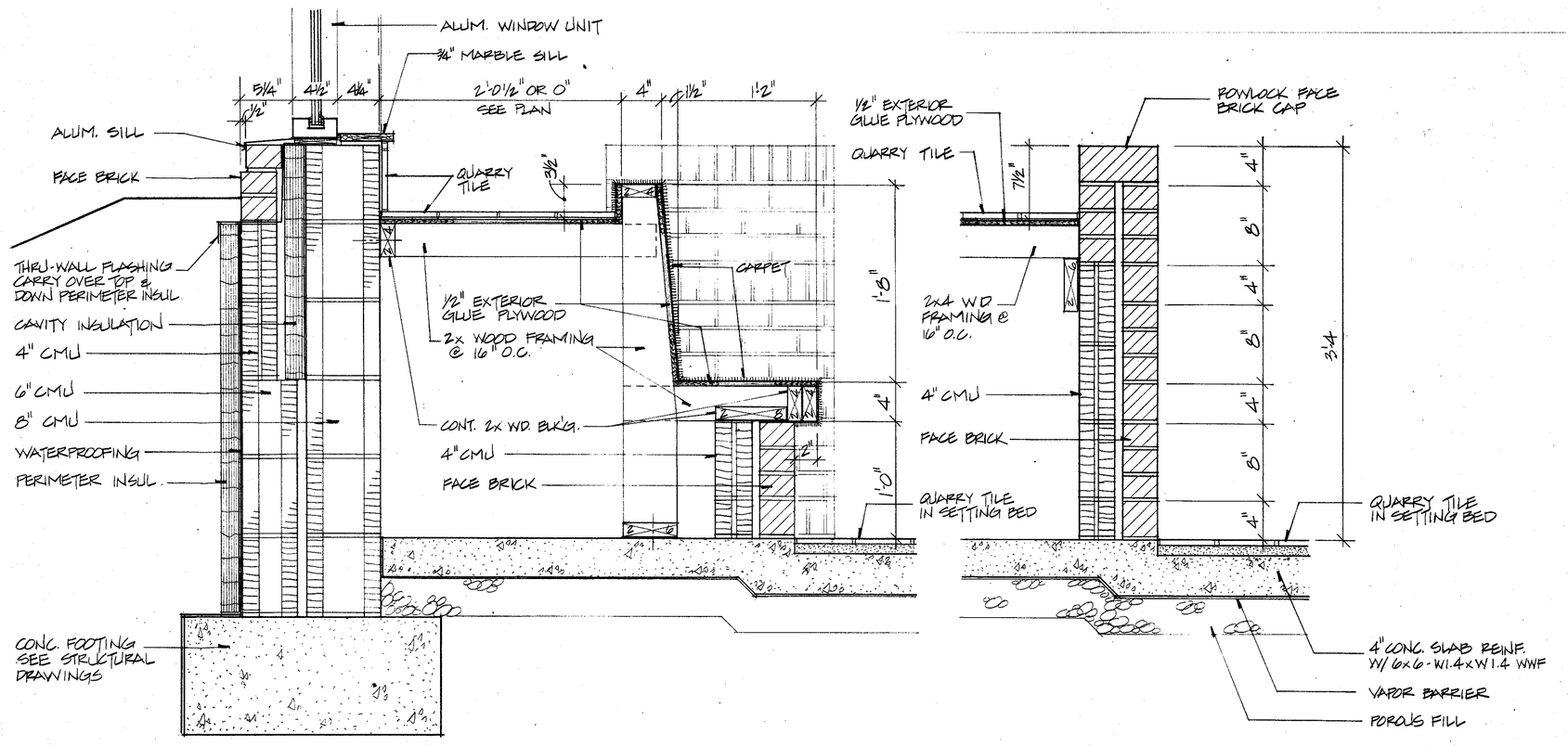
A-18

ELM ROAD 8455.00



SECTION THRU VESTIBULE A1 1-A19

1½" = 1'-0"

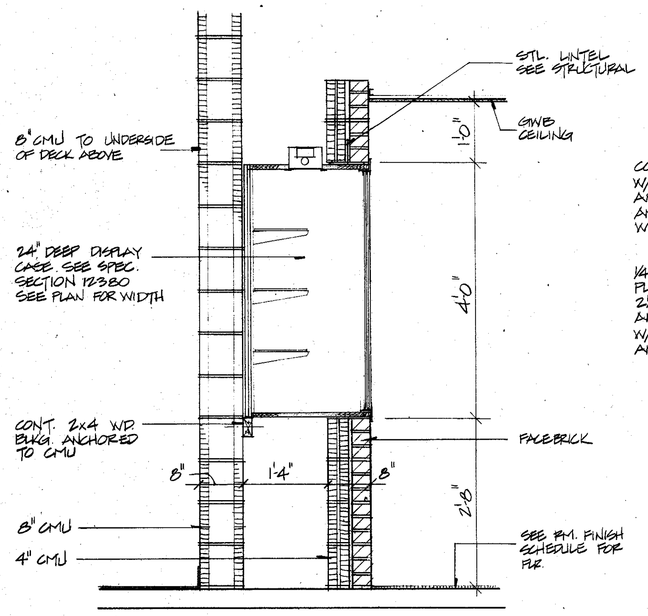


BENCH DETAIL 2-A19

1½" = 1'-0"

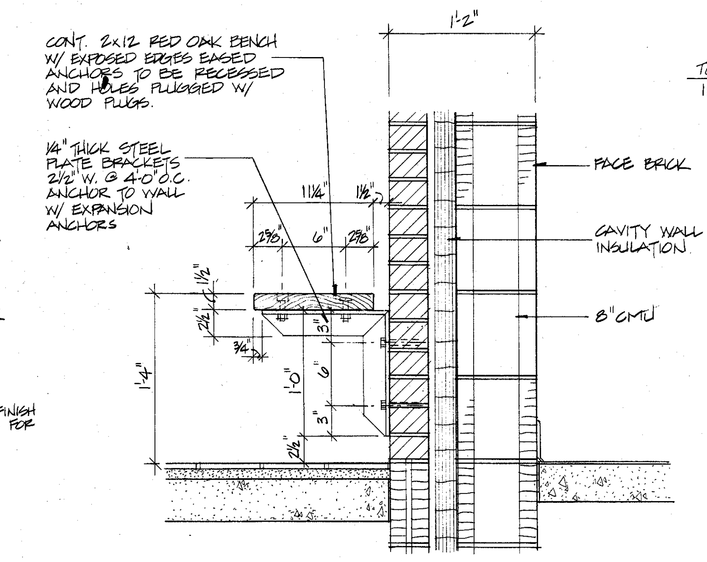
BENCH DETAIL 3-A19

1½" = 1'-0"



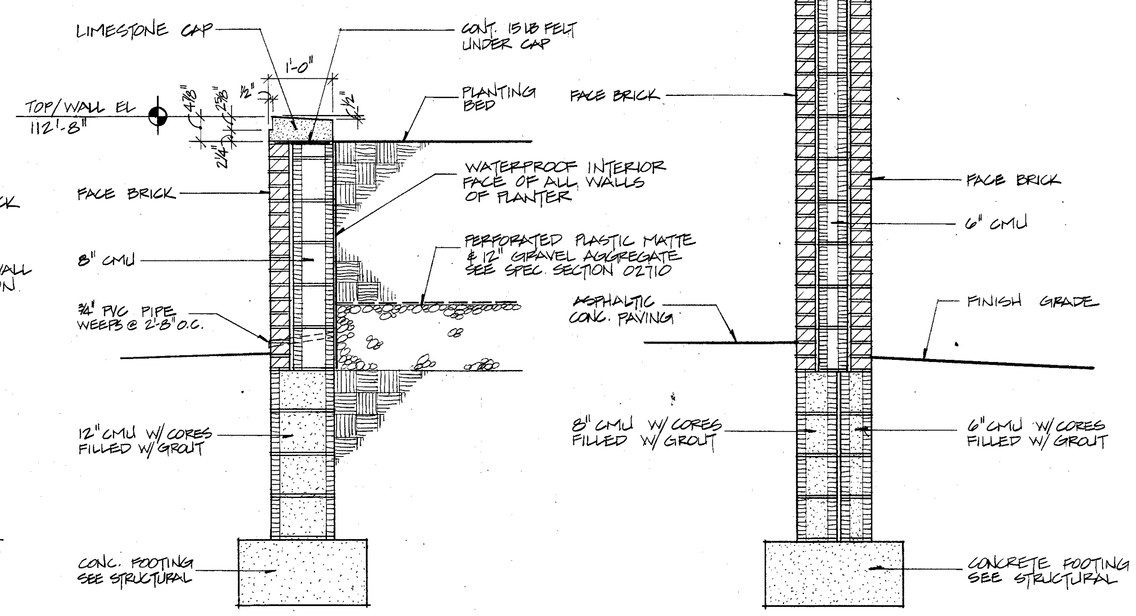
DISPLAY CASE SECTION 4-A19

¾" = 1'-0"



BENCH DETAIL 5-A19

1½" = 1'-0"

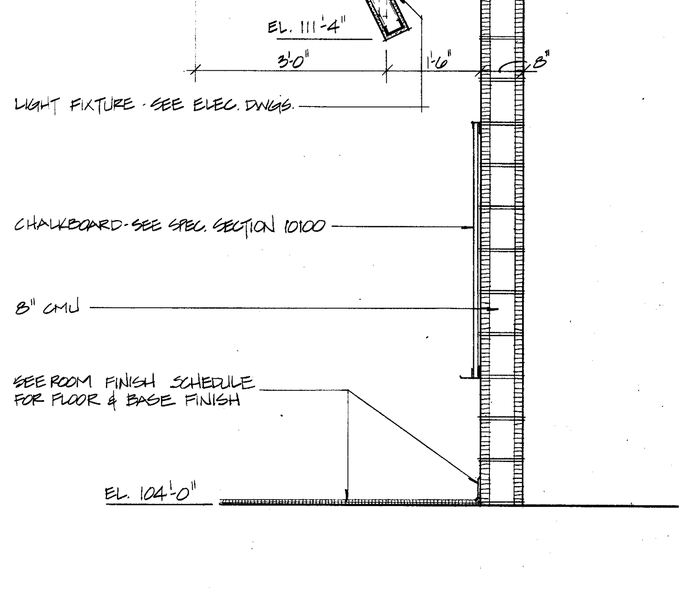


PLANTER WALL DETAIL 6-A19

¾" = 1'-0"

SERVICE YARD WALL 7-A19

¾" = 1'-0"



PROJECTION SCREEN WALL 8-A19

¾" = 1'-0"

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
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MISHAWAKA, INDIANA

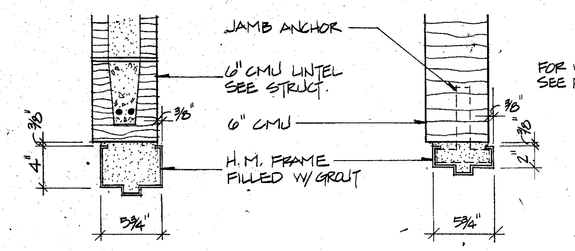
FANNING/HOWEY ASSOCIATES, Inc.
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DETAILS

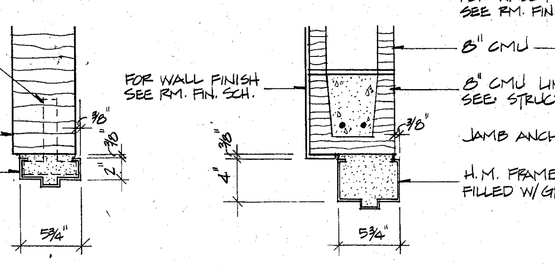
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CHECKED BY: 4
COMM. NO.: 8455.00
DATE: 11 NOV. 1985
REVISIONS NO. DATE

A-19

ELM ROAD 8455.00



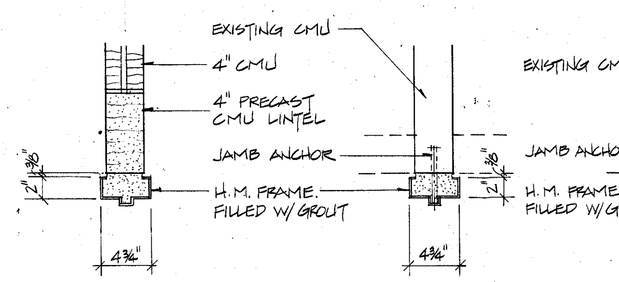
HEAD 1-A20



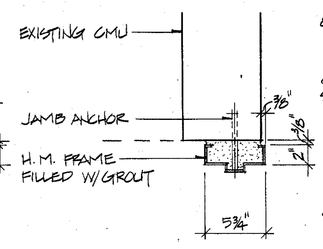
JAMB 2-A20

HEAD 3-A20

JAMB 4-A20

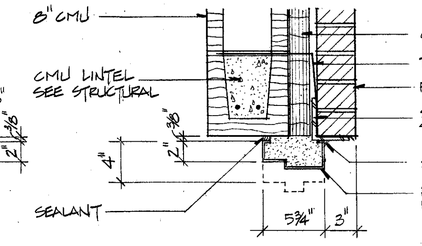


HEAD 5-A20

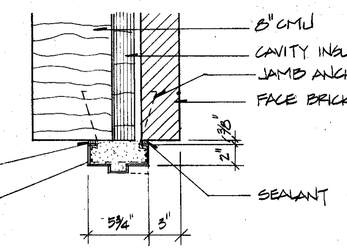


HEAD/JAMB 6-A20

HEAD/JAMB 7-A20



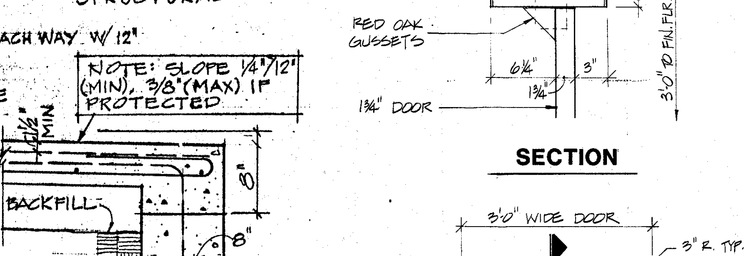
HEAD 8-A20



JAMB 9-A20

HEAD 10-A20

JAMB 11-A20

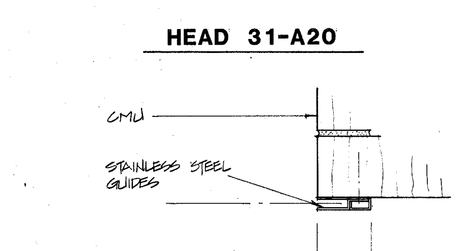


HEAD 12-A20

JAMB 13-A20

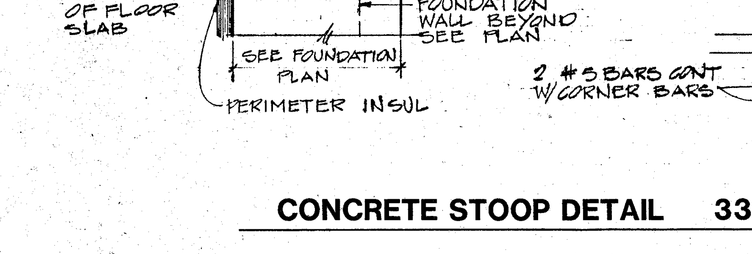
HEAD 14-A20

JAMB 15-A20



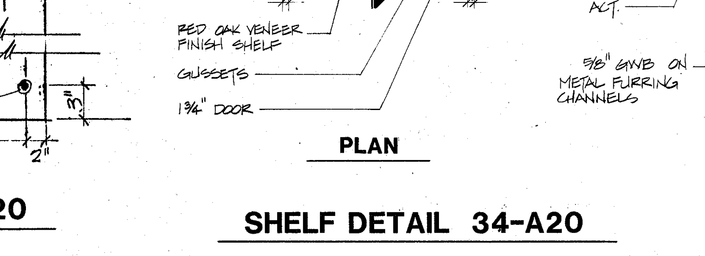
HEAD 16-A20

JAMB 17-A20

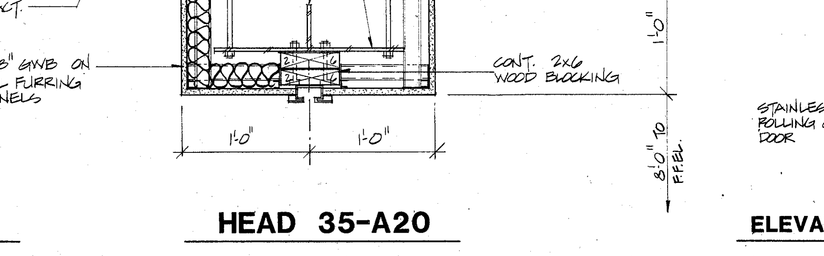


HEAD 18-A20

JAMB 19-A20

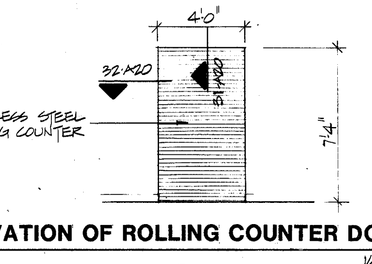


JAMB 20-A20



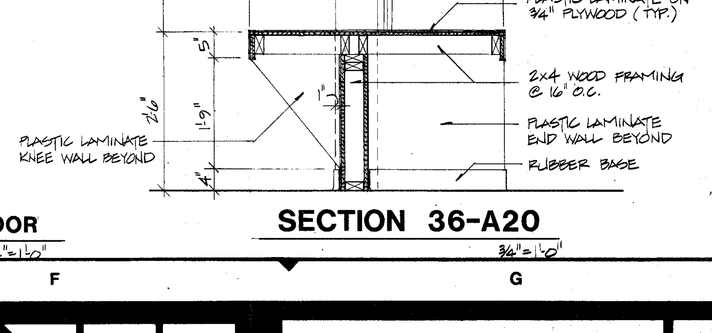
HEAD 21-A20

JAMB 22-A20

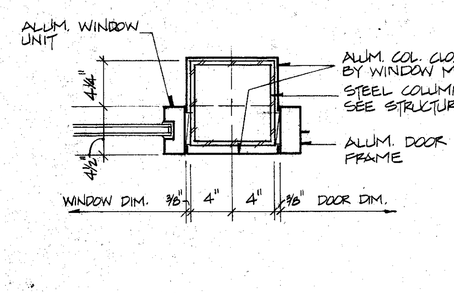


HEAD 23-A20

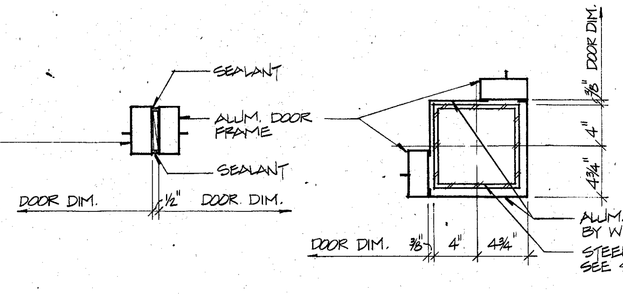
JAMB 24-A20



HEAD 25-A20

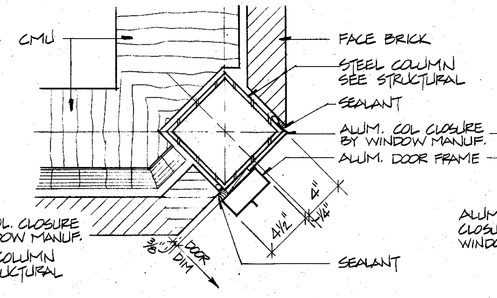


JAMB 26-A20

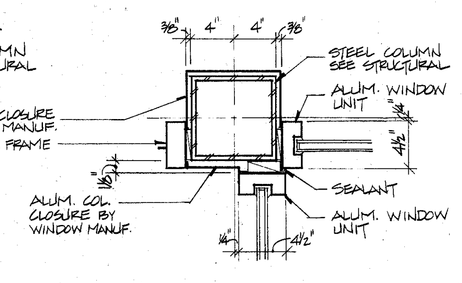


JAMB 27-A20

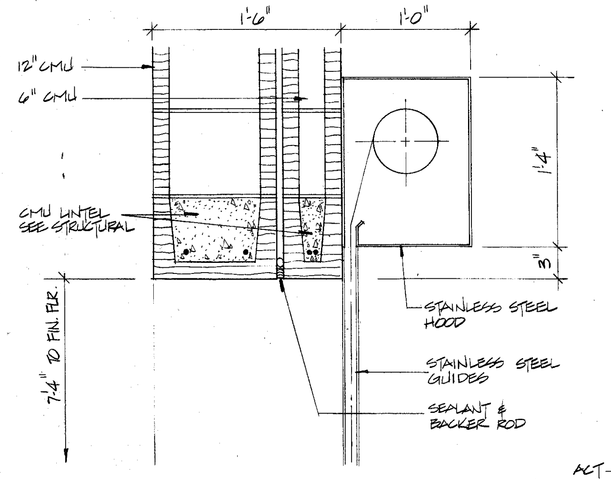
JAMB 28-A20



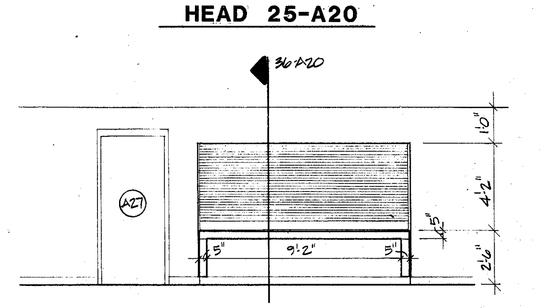
JAMB 29-A20



JAMB 30-A20



HEAD 31-A20



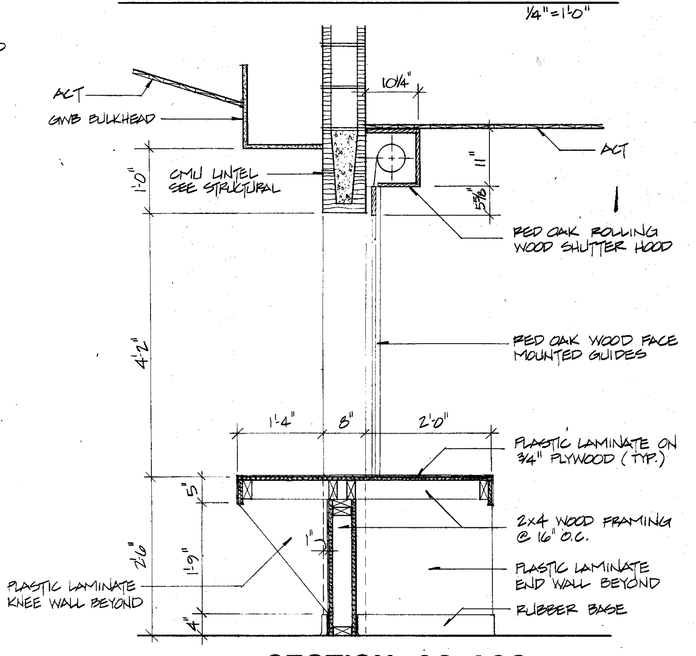
ELEVATION OF ROLLING WOOD SHUTTER

1/4"=1'-0"

JAMB 32-A20

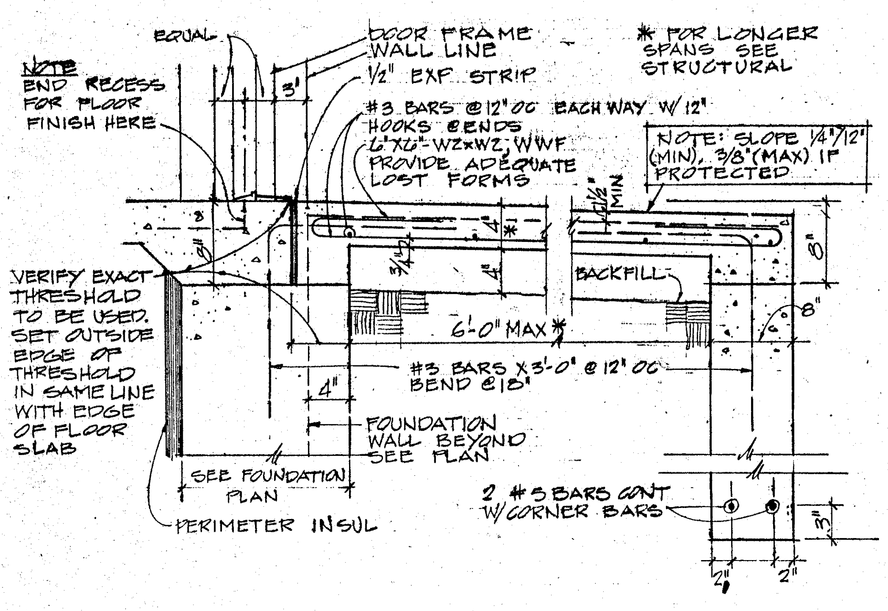
ELEVATION OF ROLLING COUNTER DOOR

1/2"=1'-0"

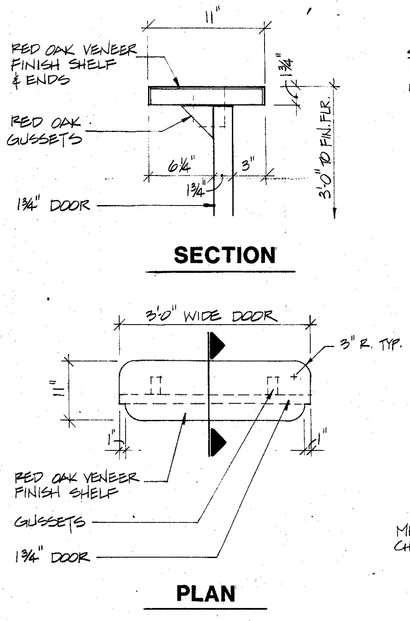


SECTION 36-A20

3/8"=1'-0"



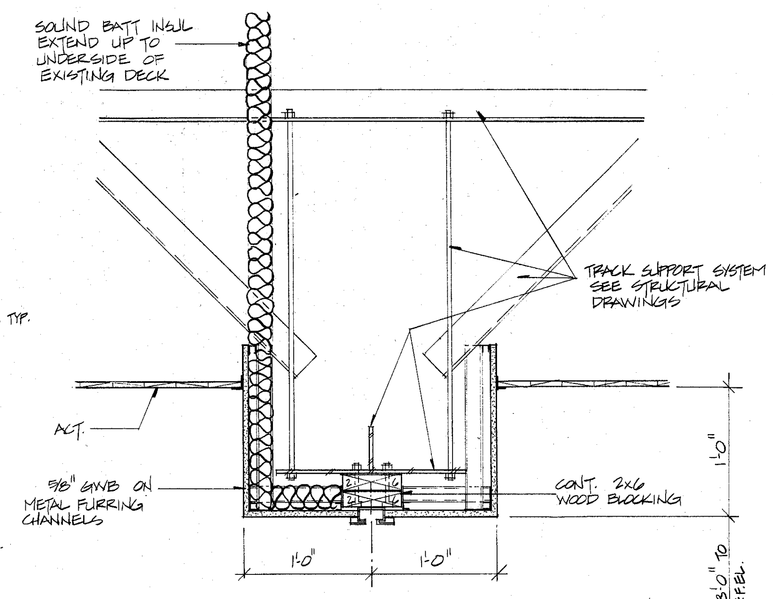
CONCRETE STOOP DETAIL 33-A20



SECTION

PLAN

SHELF DETAIL 34-A20



HEAD 35-A20

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ADDITIONS & ALTERATIONS TO THE
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PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

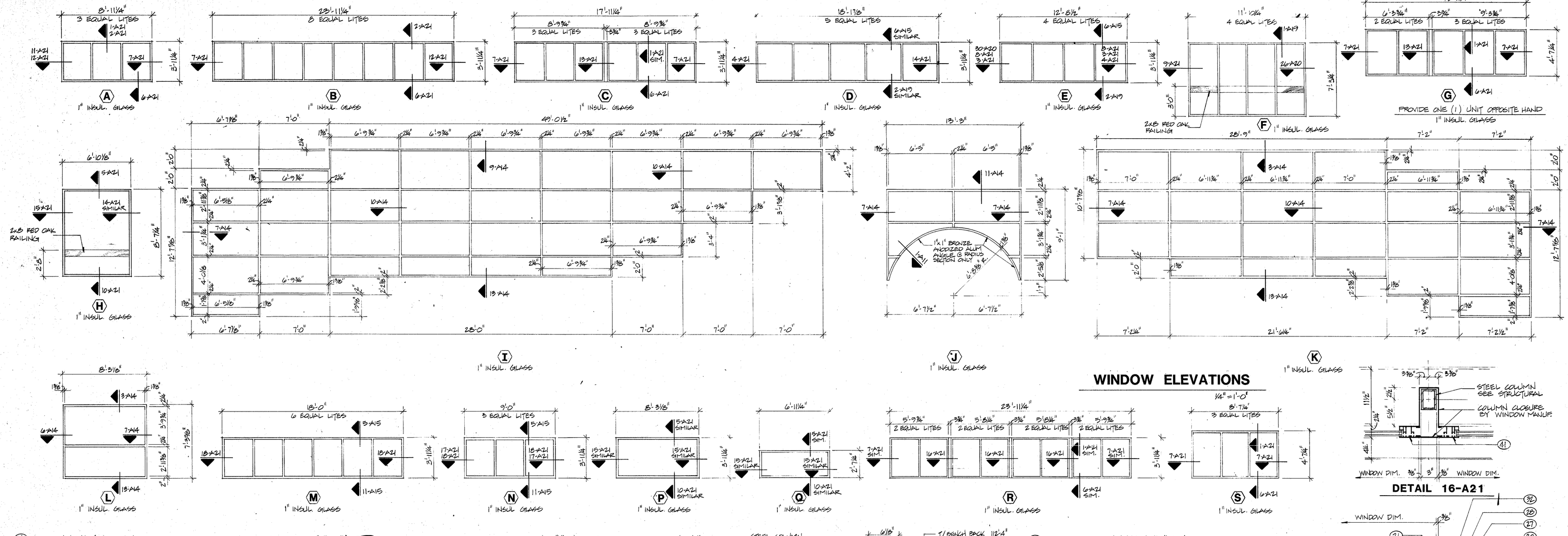
FANNING/HOWEY ASSOCIATES, Inc.
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DOOR DETAILS

DRAWN BY: RL | COMM. NO.: 8455.00
CHECKED BY: 4 | DATE: 11 Nov. 1985
REVISIONS NO. DATE

A-20

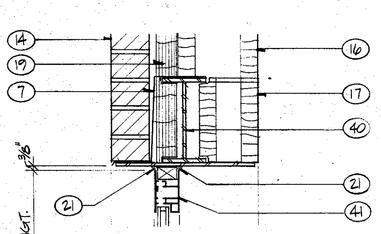
ELM ROAD 8455.00



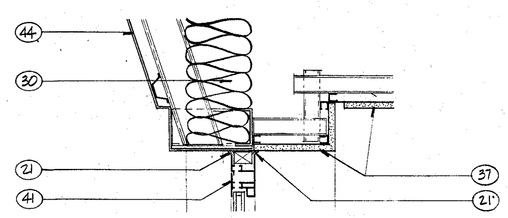
WINDOW ELEVATIONS

1/4" = 1'-0"

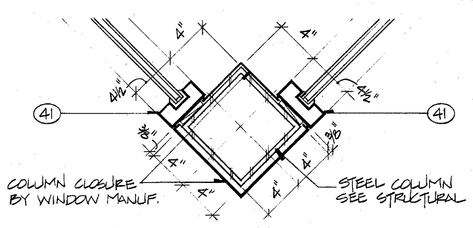
DETAIL 16-A21



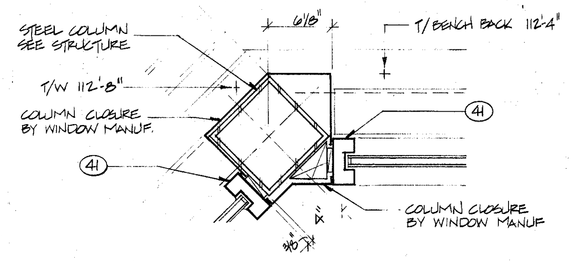
DETAIL 1-A21



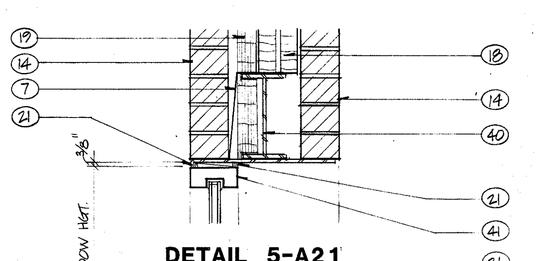
DETAIL 2-A21



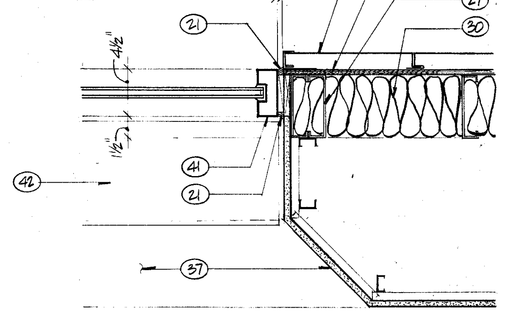
DETAIL 3-A21



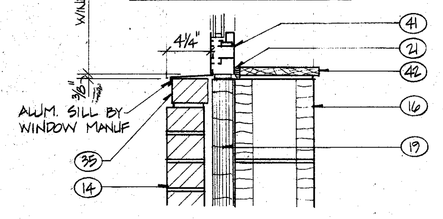
DETAIL 4-A21



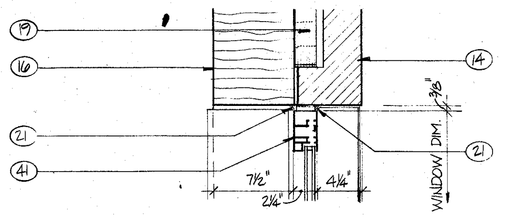
DETAIL 10-A21



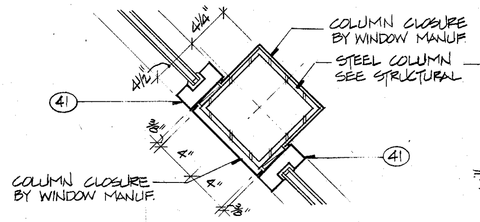
DETAIL 17-A21



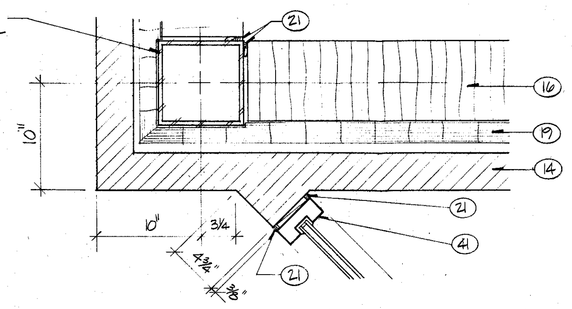
DETAIL 6-A21



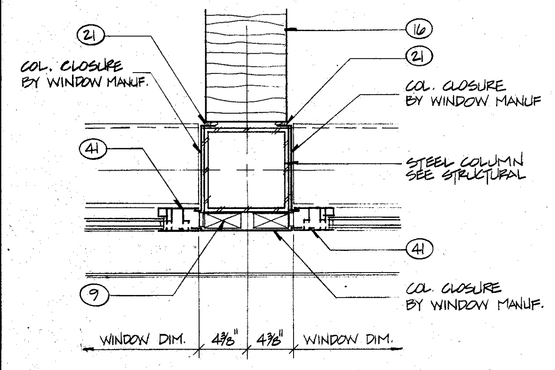
DETAIL 7-A21



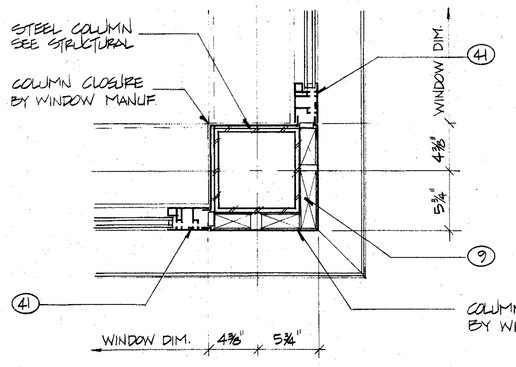
DETAIL 8-A21



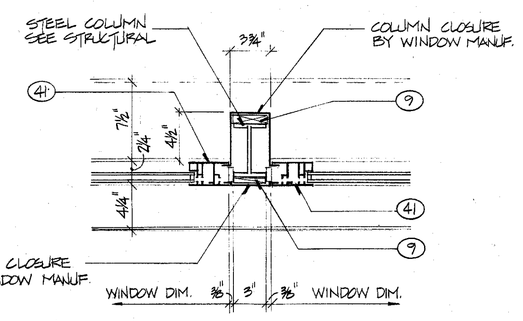
DETAIL 9-A21



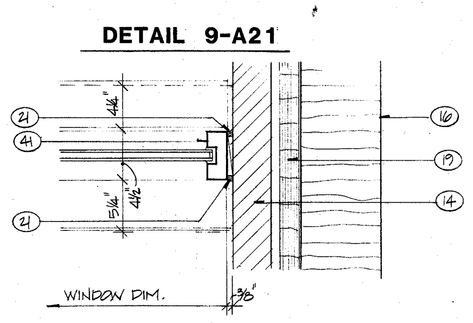
DETAIL 11-A21



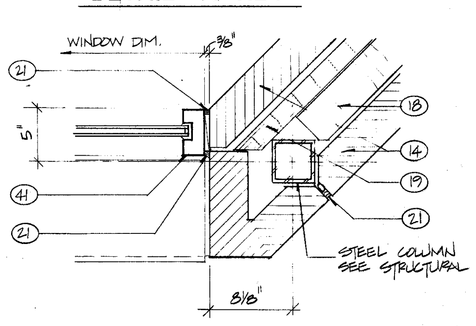
DETAIL 12-A21



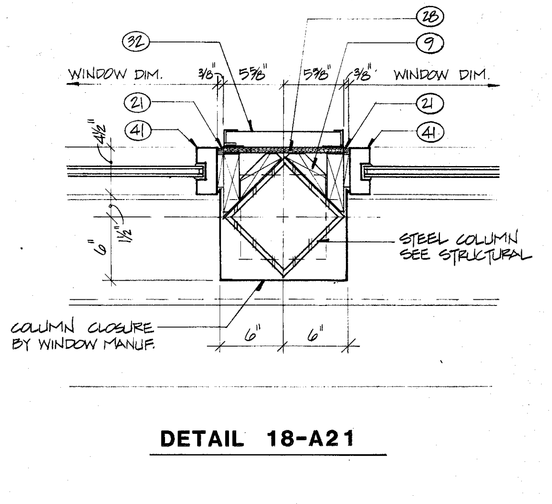
DETAIL 13-A21



DETAIL 14-A21



DETAIL 15-A21



DETAIL 18-A21

SEE SHEET A13 FOR KEYNOTE SCHEDULE

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MISHAWAKA, INDIANA

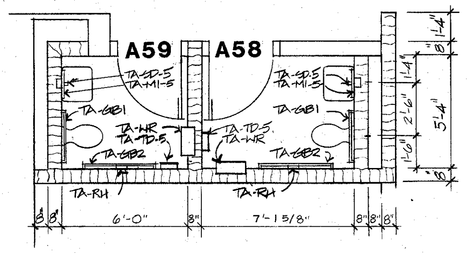
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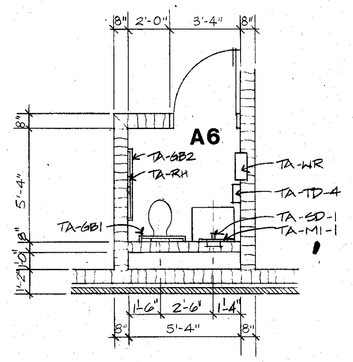
WINDOW DETAILS

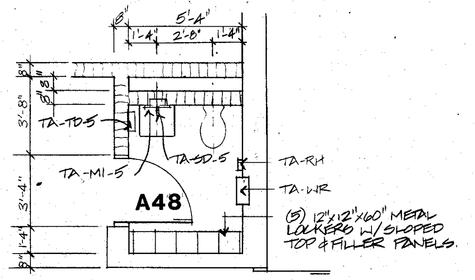
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CHECKED BY: 4 | DATE: 11 NOV. 1985
REVISIONS NO. DATE

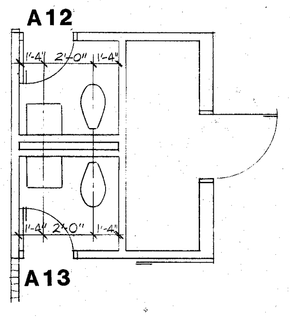
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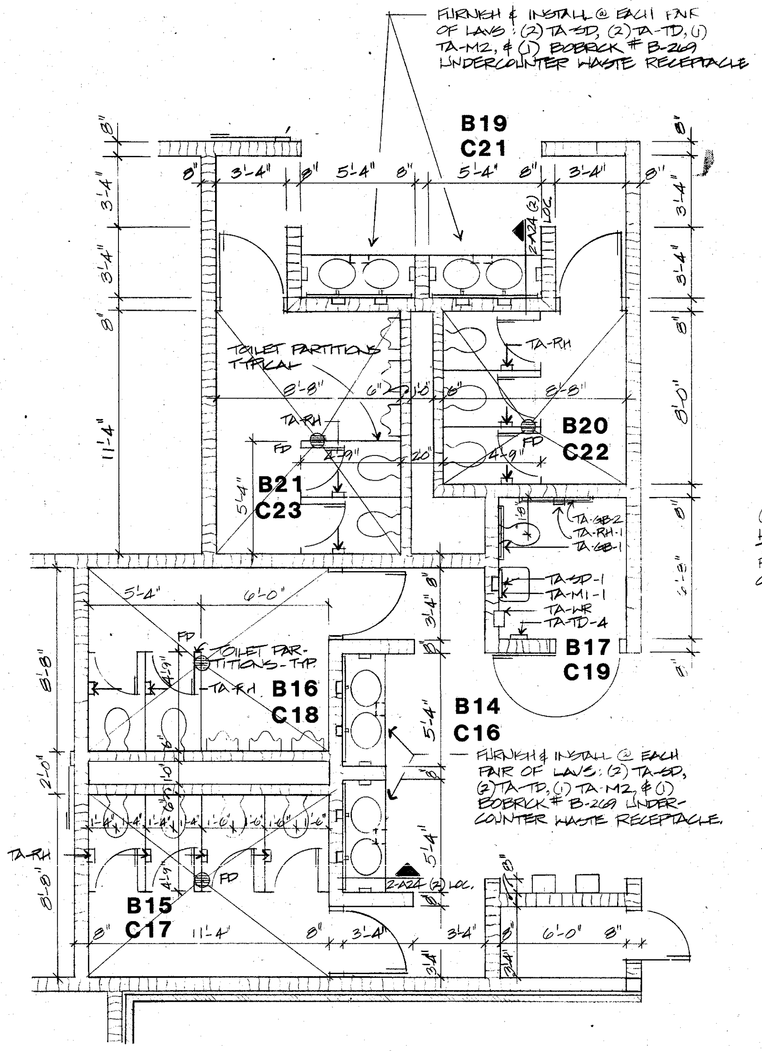
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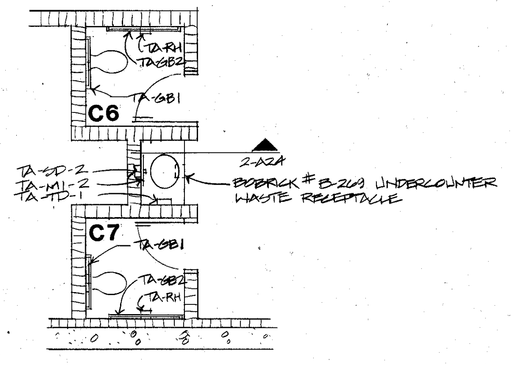


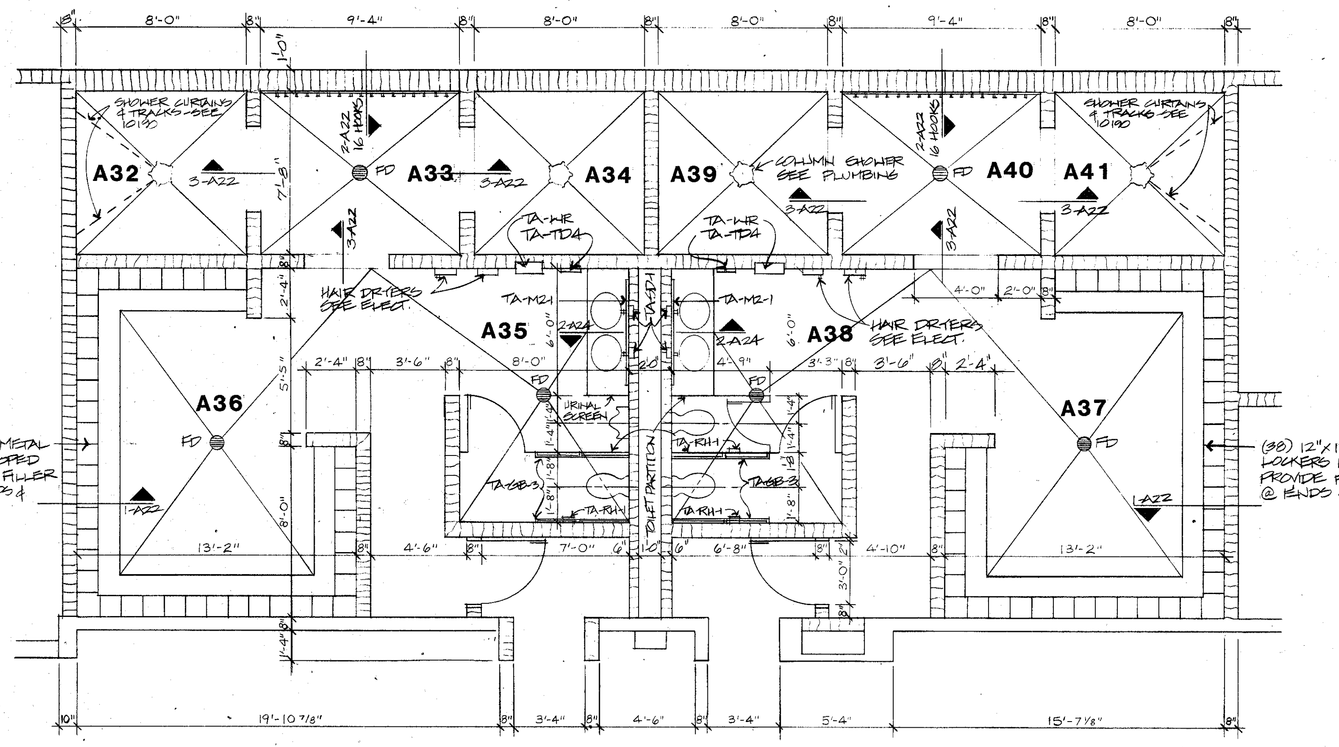


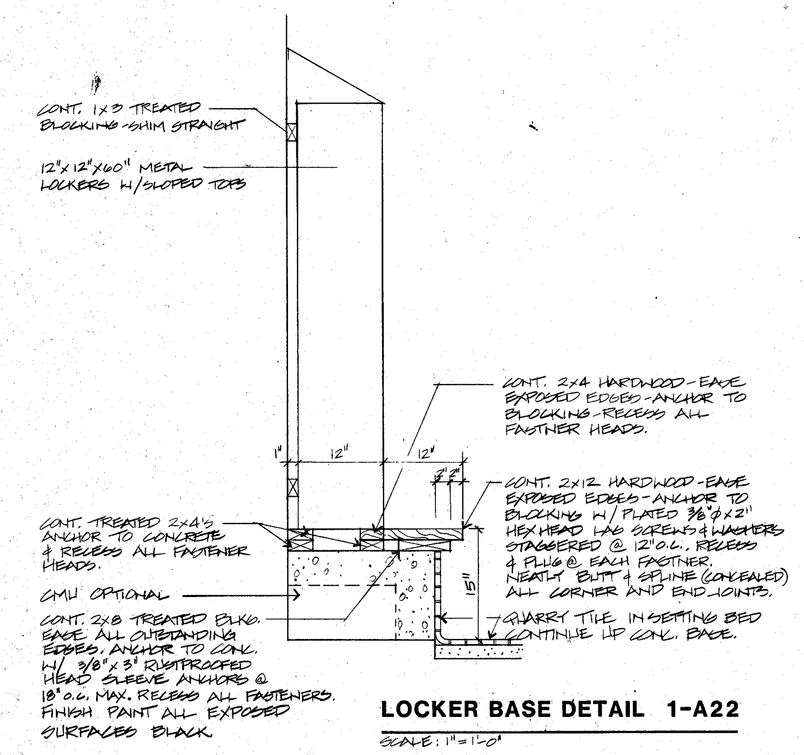






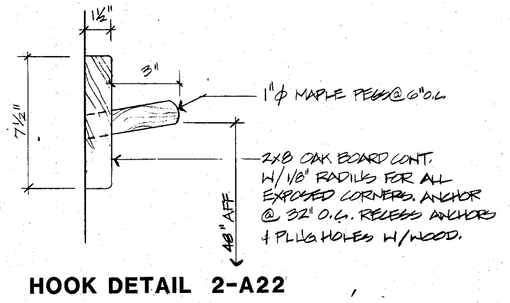






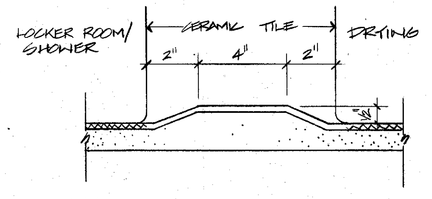
LOCKER BASE DETAIL 1-A22

SCALE: 1"=1'-0"



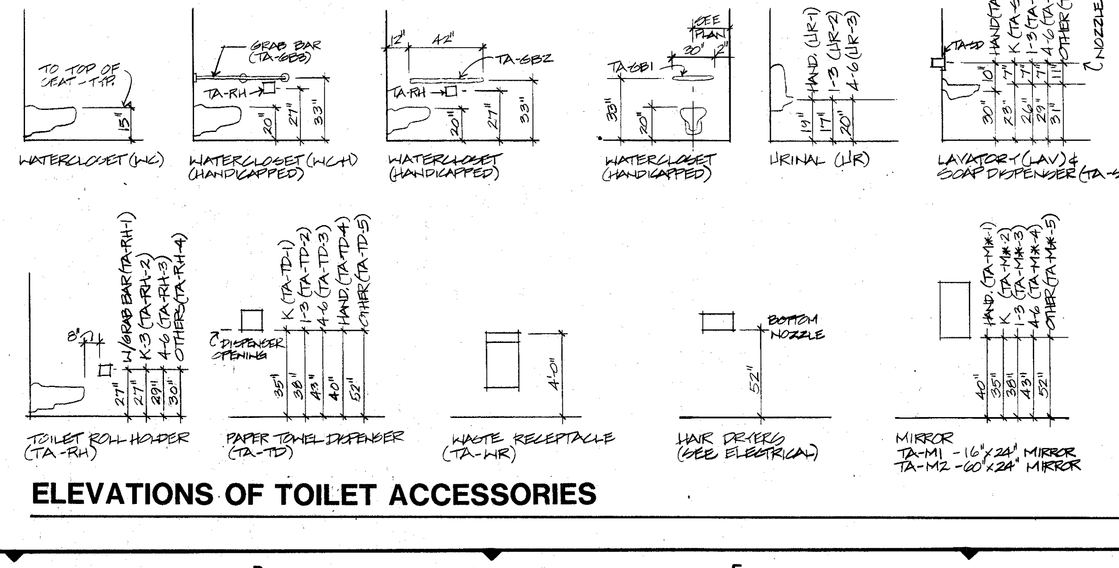
HOOK DETAIL 2-A22

NO SCALE



CURB DETAIL 3-A22

NO SCALE



ELEVATIONS OF TOILET ACCESSORIES

NOTE:
SEE ROOMS A30 & A51 ON SHEET A-23 FOR TOILET ACCESSORIES NOT SHOWN ON THIS DRAWING.

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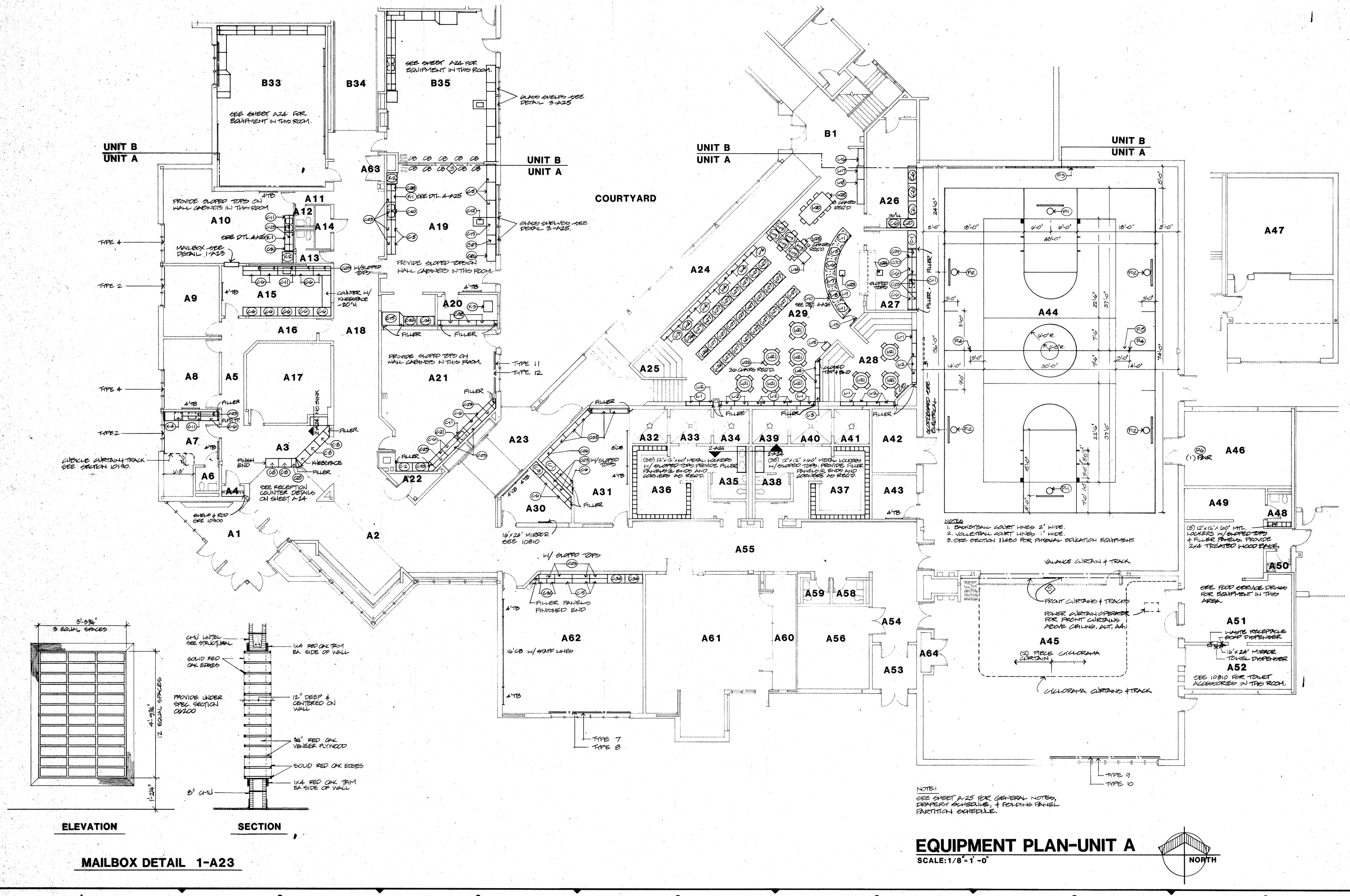
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1/4" SCALE TOILET PLANS

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COMM. NO.: 8455.00
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A-22

ELM ROAD 8455.00



NOTES
1. BASKETBALL COURT LINES 2" WIDE.
2. VOLLEYBALL COURT LINES 1" WIDE.
3. SEE SECTION 11460 FOR PHYSICAL EDUCATION EQUIPMENT.

NOTE:
SEE SHEET A-25 FOR GENERAL NOTES, DRAPERY SCHEDULE, & FOLDING PANEL PARTITION SCHEDULE.

MAILBOX DETAIL 1-A23

EQUIPMENT PLAN-UNIT A

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

NORTH

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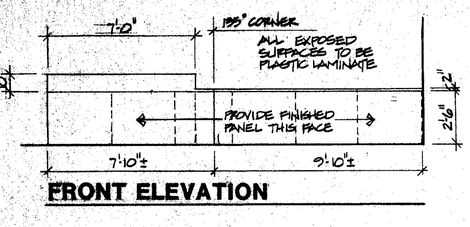
ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

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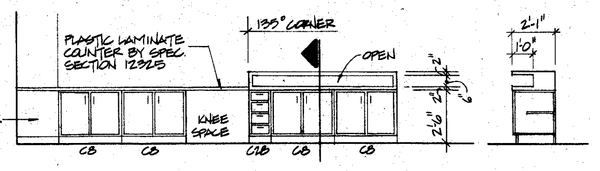
EQUIPMENT PLAN-UNIT A

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REVISIONS NO. DATE

A-23



FRONT ELEVATION

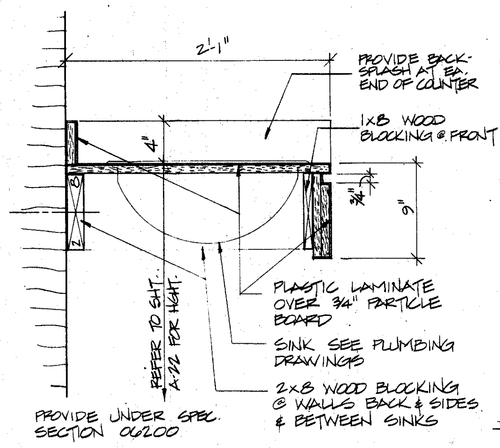


BACK ELEVATION

SECTION

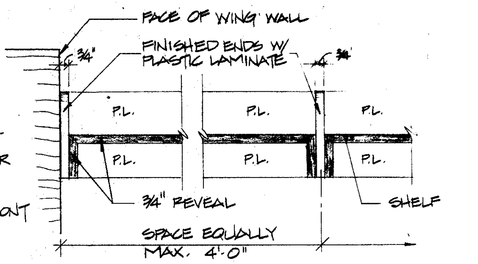
RECEPTION COUNTER 3-A24

¼" = 1'-0"

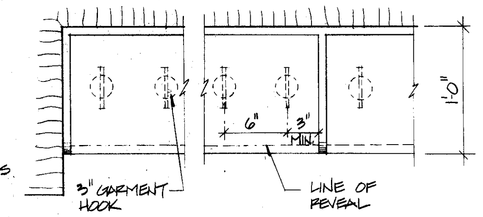


COUNTER DETAIL 2-A24

1½" = 1'-0"

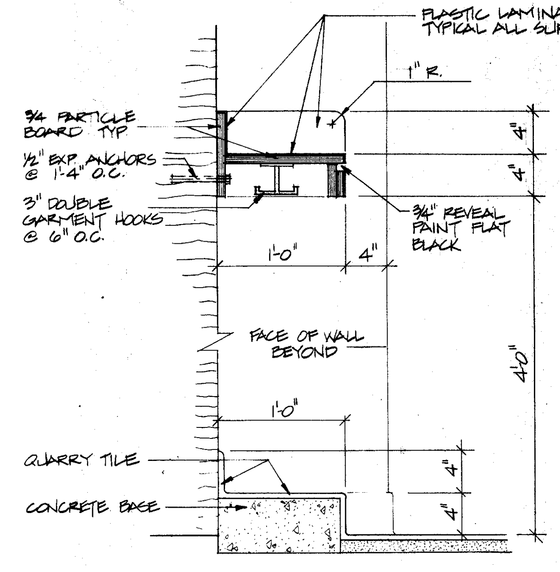


ELEVATION



PLAN

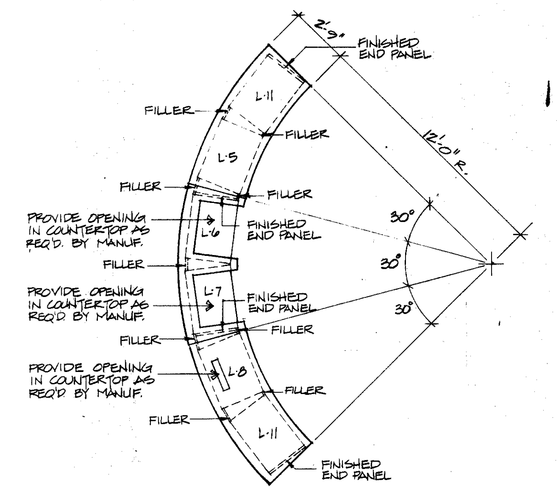
PROVIDE UNDER SPEC. SECTION 12322



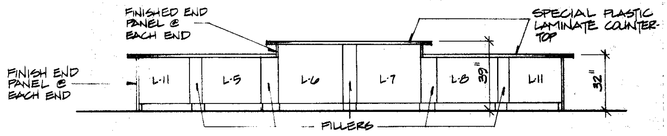
SECTION

COAT RACK & SHELF DETAIL 1-A24

1½" = 1'-0"



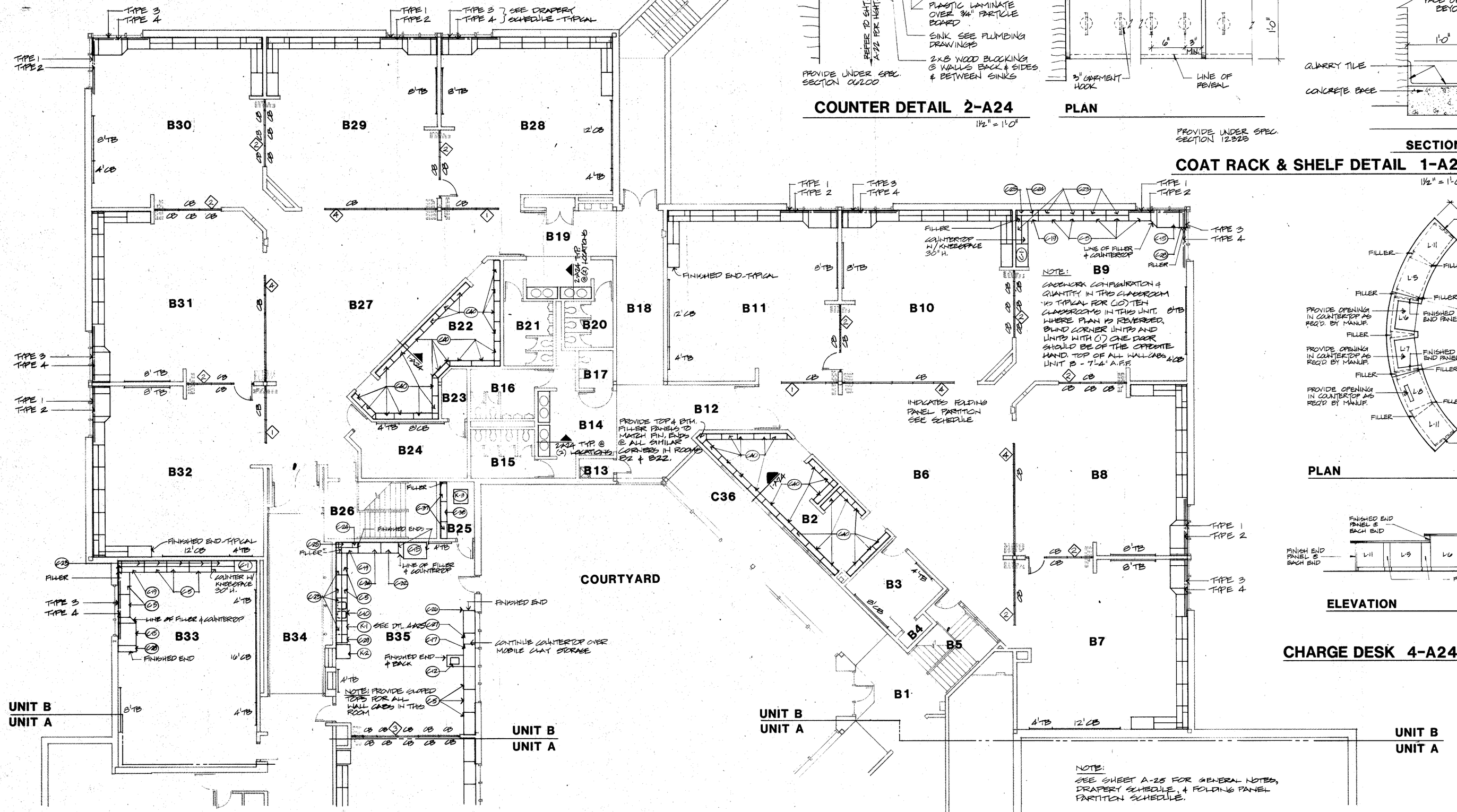
PLAN



ELEVATION

CHARGE DESK 4-A24

½" = 1'-0"



NOTE:
SEE SHEET A-25 FOR GENERAL NOTES, DRAPERY SCHEDULE, & FOLDING PANEL PARTITION SCHEDULE.

EQUIPMENT PLAN-UNIT B

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

NORTH

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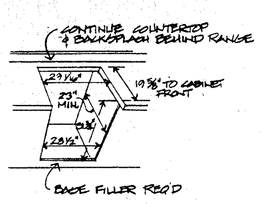
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EQUIPMENT PLAN-UNIT B

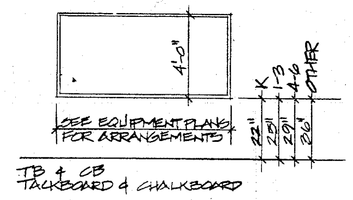
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A-24

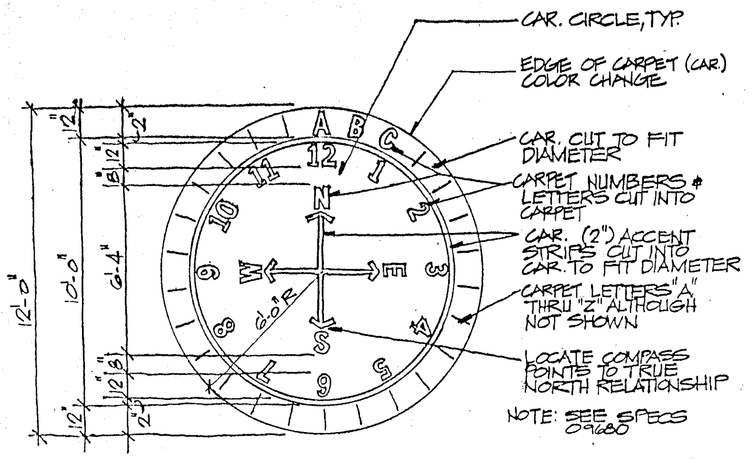
ELM ROAD ELEMENTARY SCHOOL



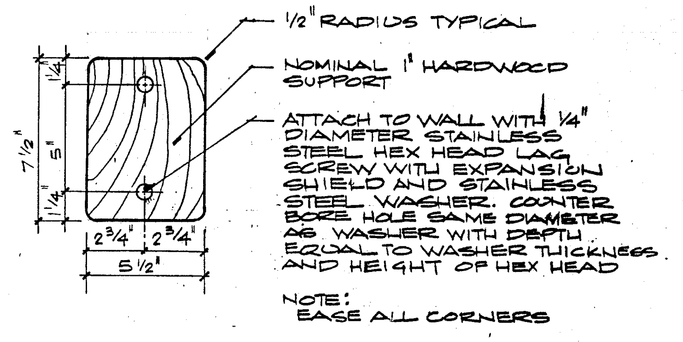
CASEWORK AT SET-IN-RANGE 4-A25



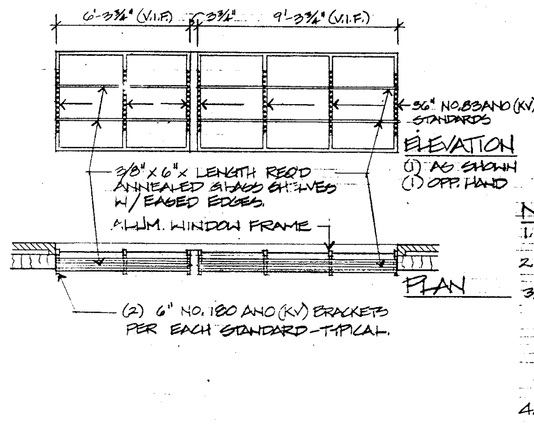
TACKBOARD & CHALKBOARD MOUNTING HEIGHTS



ALPHABET CIRCLE 1-A25

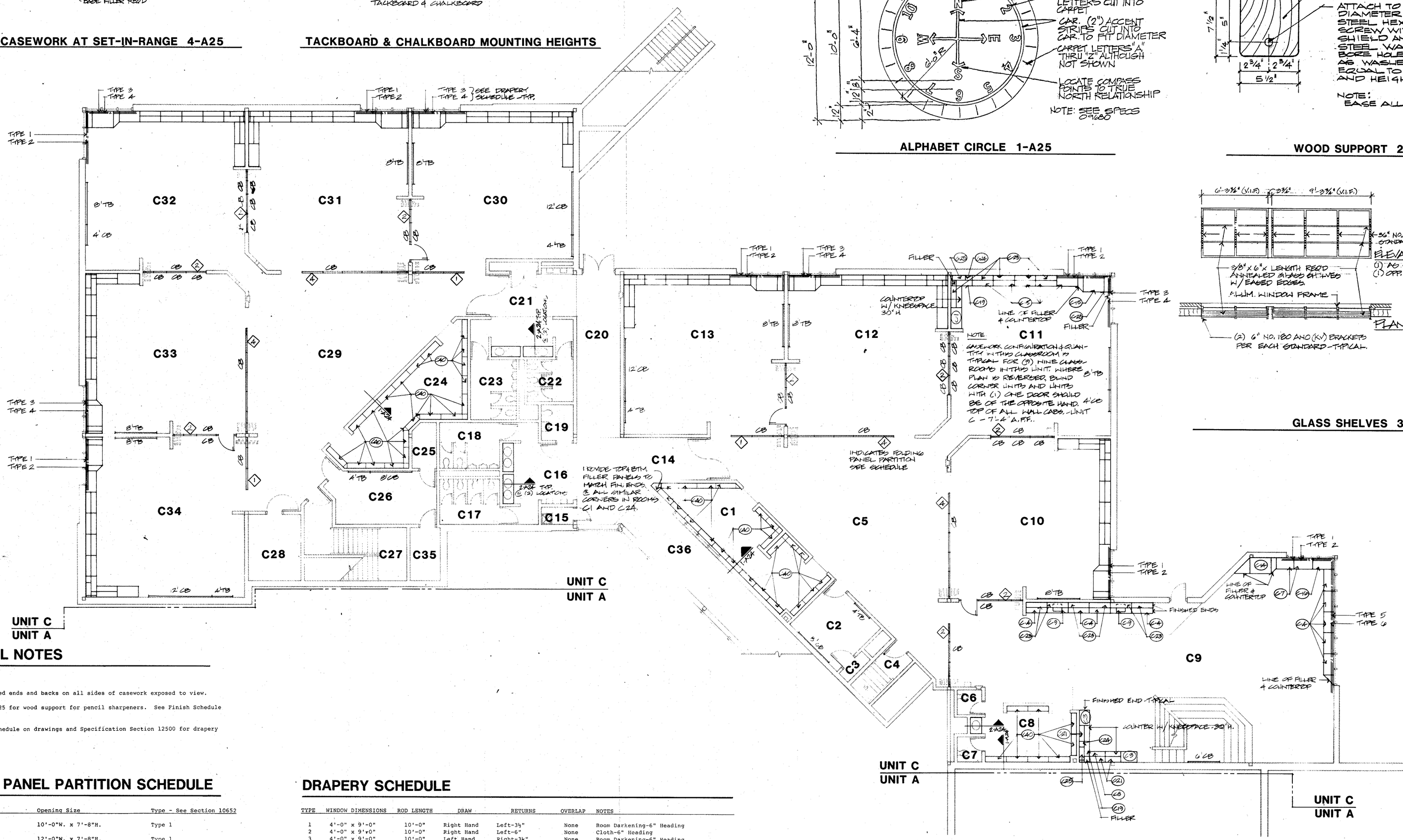


WOOD SUPPORT 2-A25



NOTES:
1. (KV) INDICATES KNAPE & VOGT MFG. CO.
2. FINISH TO BE 626 SATIN ANODIZED ALUMINUM.
3. PROVIDE CLEAR PLASTIC BACK, FRONT & END STOPS, & RUBBER CUSHIONS @ ALL BRACKET TO GLASS CONTACT POINTS.
4. KV ITEMS & GLASS PROVIDED BY OBECO.

GLASS SHELVES 3-A25



GENERAL NOTES

1. Provide finished ends and backs on all sides of casework exposed to view.
2. See Detail 2-A25 for wood support for pencil sharpeners. See Finish Schedule for locations.
3. See Drapery Schedule on drawings and Specification Section 12500 for drapery requirements.

FOLDING PANEL PARTITION SCHEDULE

Mark	Opening Size	Type - See Section 10652
1	10'-0"W. x 7'-8"H.	Type 1
2	12'-0"W. x 7'-8"H.	Type 1
3	19'-4"W. x 7'-8"H.	Type 1
4	20'-0"W. x 7'-8"H.	Type 1
5	32'-0"W. x 10'-0"H.	Type 2

NOTES:
1. Folding Panel Partitions, that do not abut masonry at the free end when in the extended position, shall be furnished with a flexible bulb seal in lieu of the 3/4" fixed jamb.
2. All partitions shall be provided with a tackable surface on both sides unless noted otherwise on this drawing.
3. Provide 3'-0"W. x 7'-0"H. Single Pass Doors where indicated on plans.

DRAPERY SCHEDULE

TYPE	WINDOW DIMENSIONS	ROD LENGTH	DRAW	RETURNS	OVERLAP	NOTES
1	4'-0" x 9'-0"	10'-0"	Right Hand	Left-3½"	None	Room Darkening-6" Heading
2	4'-0" x 9'-0"	10'-0"	Right Hand	Left-6"	None	Cloth-6" Heading
3	4'-0" x 9'-0"	10'-0"	Left Hand	Right-3½"	None	Room Darkening-6" Heading
4	4'-0" x 9'-0"	10'-0"	Left Hand	Right-6"	None	Cloth-6" Heading
5	4'-0" x 24'-0"	26'-0"	Left Hand	Right-3½"	None	Room Darkening-6" Heading
6	4'-0" x 24'-0"	26'-0"	Left Hand	Right-6"	None	Cloth-6" Heading
7	4'-0" x 18'-0"	20'-0"	Center	Left & Right-3½"	4"	Room Darkening-6" Heading, Wall Mount
8	4'-0" x 18'-0"	20'-0"	Center	Left & Right-6"	4"	Cloth-6" Heading, Wall Mount
9	4'-0" x 24'-0"	26'-0"	Center	Left & Right-3½"	4"	Room Darkening-6" Heading, Wall Mount
10	4'-0" x 24'-0"	26'-0"	Center	Left & Right-6"	4"	Cloth-6" Heading, Wall Mount
11	4'-8" x 8'-8"	10'-0"	Center	Left & Right-3½"	4"	Room Darkening-6" Heading
12	4'-8" x 8'-8"	10'-0"	Center	Left & Right-6"	4"	Cloth-6" Heading

Notes:
1. All draperies to have 4" heading unless noted otherwise.
2. All rods to be ceiling mount unless noted otherwise.

EQUIPMENT PLAN-UNIT C

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

NORTH

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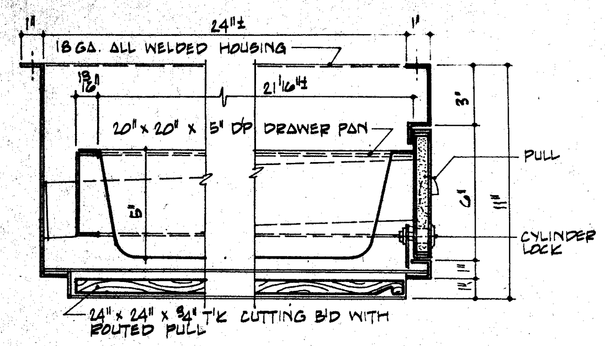
EQUIPMENT PLAN-UNIT C

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COMM. NO.: 8455.00
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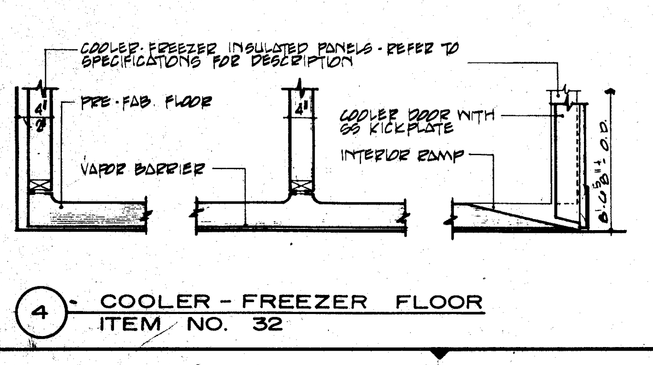
REVISIONS NO. DATE

A-25

ELM ROAD 8455.00



NOTE: NOTCH HOUSING AS REQ'D FOR TOP BRACING. STUD BOLT HOUSING TO UNDERSIDE OF TABLE TOP. CORNERS OF DRAWER PAN FLANGES TO BE ROUNDED. DRAWER TO BE SELF CLOSING.



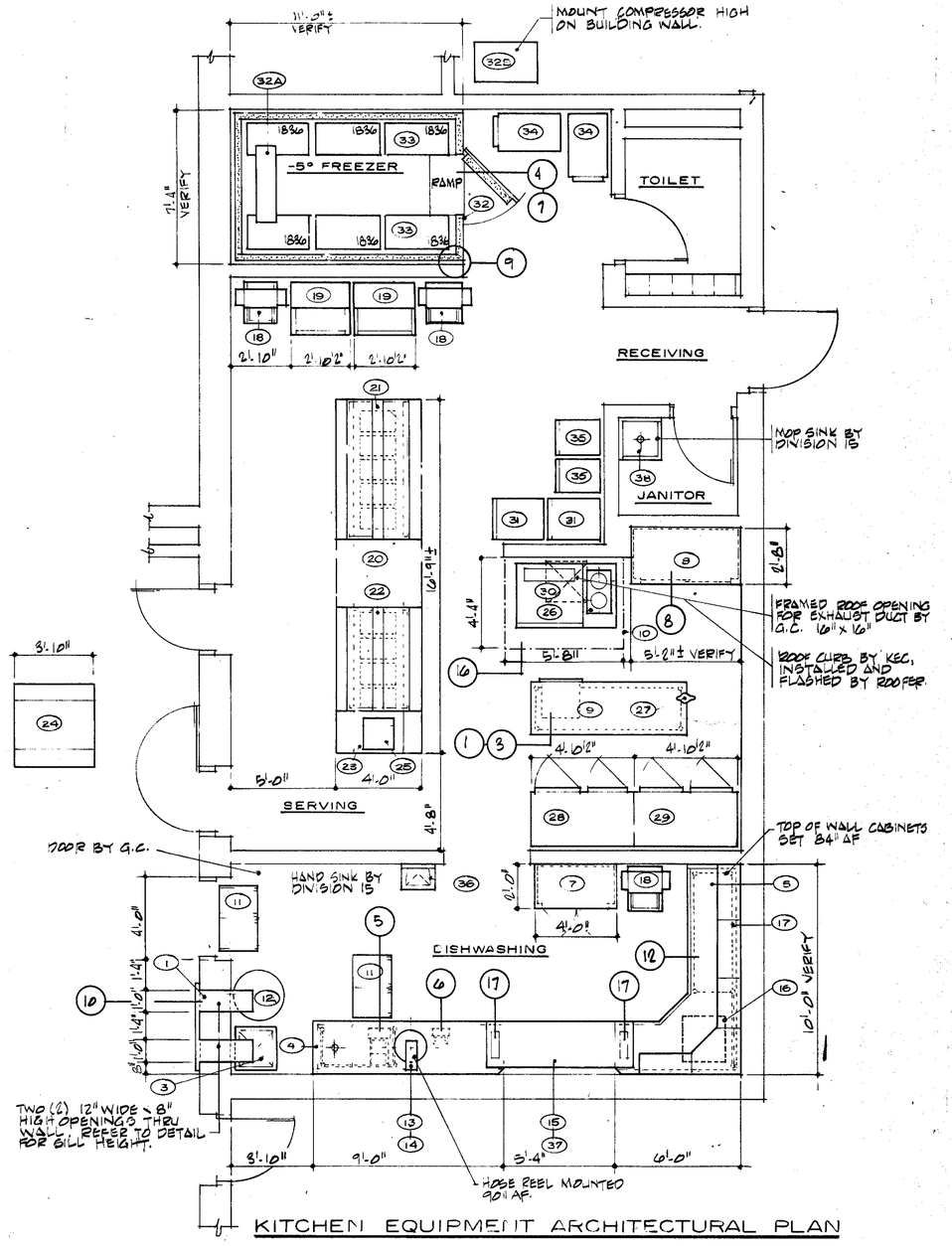
1 TYPICAL DRAWER ASSEMBLY DETAIL

EQUIPMENT SCHEDULE

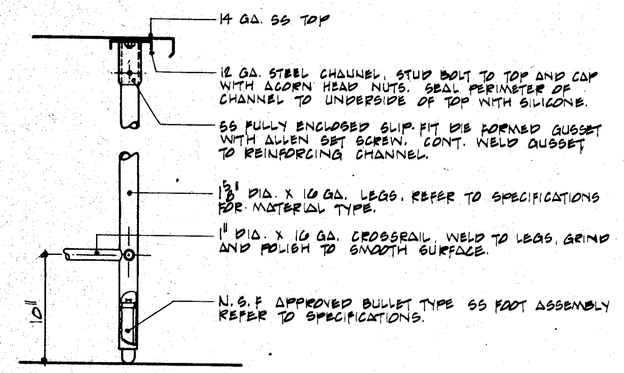
ITEM	QUAN	EQUIPMENT DATA	
		DESCRIPTION	MANUFACTURER AND MODEL
26	1	HOT PLATE	HOBART CH-20
27	1	CAN OPENER	EDLUND NO. 1
28	1	REFRIGERATOR, MOBILE	TRAULSEN RHT-2-32-WUT
29	1	FREEZER, MOBILE	TRAULSEN RLT-2-32-WUT
30	1	CONVECTION OVEN	HOBART CN-903
31	2	FOOD TRANSPORTERS, MOBILE	CARTER HOFFMANN PH-1200
32	1	WALK IN FREEZER	ELLIOTT WILLIAMS
32A	1	FREEZER COIL	BOHN
32B	1	COMPRESSOR	COPELAND
33	6	SHELF UNIT, MOBILE	METRO SUPER ERECTA SHELF
34	4	UTILITY CART, MOBILE	LAKESIDE 544
35	2	FOOD TRANSPORTERS, MOBILE	CRESCENT H-339-127-STACKED
36	1	HAND SINK	BY DIVISION 15
37	1	DETERGENT SYSTEM	BY SOAP VENDOR
38	1	MOP SINK	BY DIVISION 15

EQUIPMENT SCHEDULE

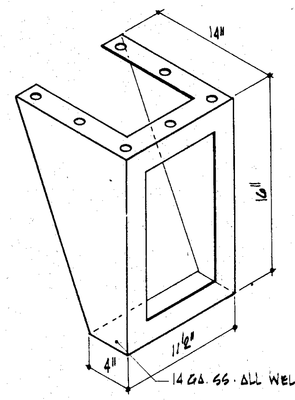
ITEM	QUAN	EQUIPMENT DATA	
		DESCRIPTION	MANUFACTURER AND MODEL
1	2	TRASH/SILVERWARE CHUTE	FABRICATE
2		OPEN NUMBER	
3	1	SILVER SOAK SINK, MOBILE	FABRICATE
4	1	SOILED DISHTABLE	FABRICATE
5	1	CLEAN DISHTABLE	FABRICATE
6		OPEN NUMBER	
7	1	STORAGE CABINET	FABRICATE
8	1	STORAGE CABINET	FABRICATE
9	1	WORK TABLE, MOBILE	FABRICATE
10	1	VENTILATOR SYSTEM	MASTER AIR PSCL/150R5B
11	2	TRAY RACK, MOBILE	EPCO B6-A-145
12	6	TRASH CONTAINER	BY OWNER
13	1	DISPOSER	IN SINK ERATOR SS-200/CC101
14	1	HOSE REEL	T AND S BRASS B-1403
15	1	DISHWASHER	HOBART C64
16	1	BOOSTER HEATER	HATCO SC-40
17	SET	WALL CABINET	ST. CHARLES ET
18	3	TRAY AND SILVER DISPENSER	SHELLEYMATIC T2-1014-TTSN
19	2	MILK COOLER, MOBILE	BEVERAGE AIR
20	1	UTILITY COUNTER, MOBILE	PRECISION BLU-1-UD-39"
21	1	HOT FOOD COUNTER, MOBILE	PRECISION BLH-5-UD
22	1	HOT/COLD FOOD COUNTER, MOBILE	PRECISION BLH-4-UD
23	1	CASHIER COUNTER, MOBILE	PRECISION BLM
24	1	CONDIMENT COUNTER, MOBILE	PRECISION BLU-3
25	1	CASH REGISTER	SHARP ZL-5300



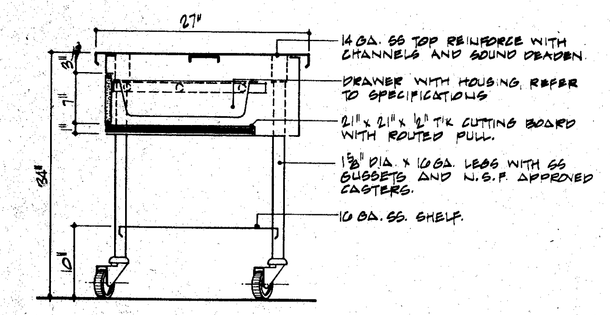
KITCHEN EQUIPMENT ARCHITECTURAL PLAN



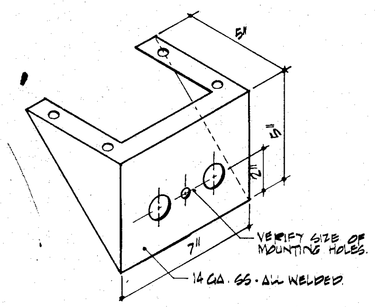
2 TYPICAL LEG ASSEMBLEY



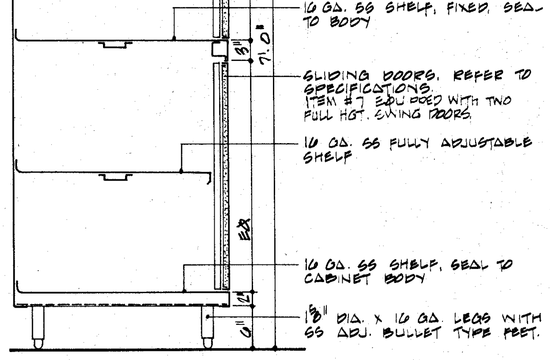
5 CONTROL PANEL BRACKET, ITEM NO. 13



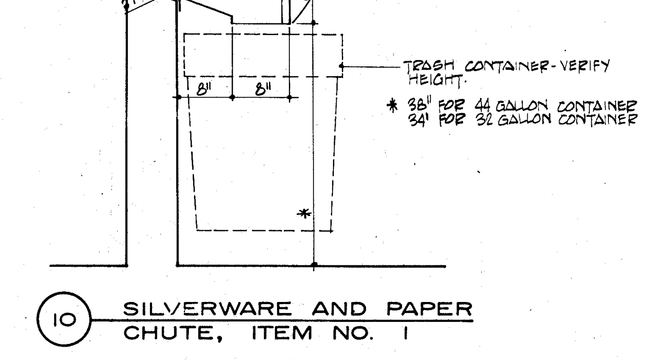
3 PORTABLE TABLE ITEM NO. 9



6 MIXING VALVE BRACKET, ITEM NO. 14

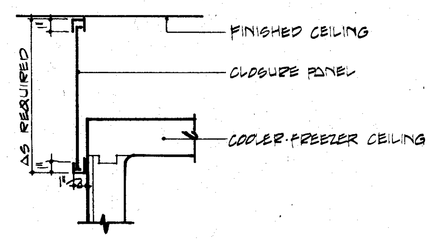


8 STORAGE CABINET ITEM NO. 7 and 8

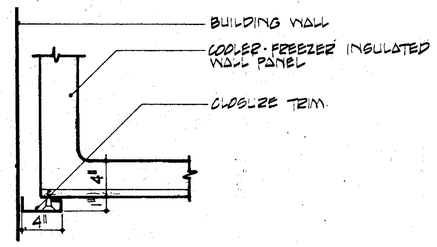


10 SILVERWARE AND PAPER CHUTE, ITEM NO. 1

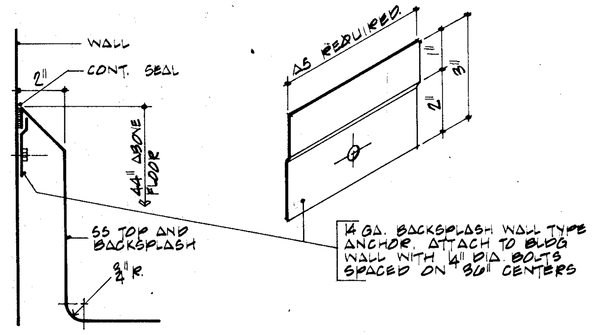
4 COOLER - FREEZER FLOOR ITEM NO. 32



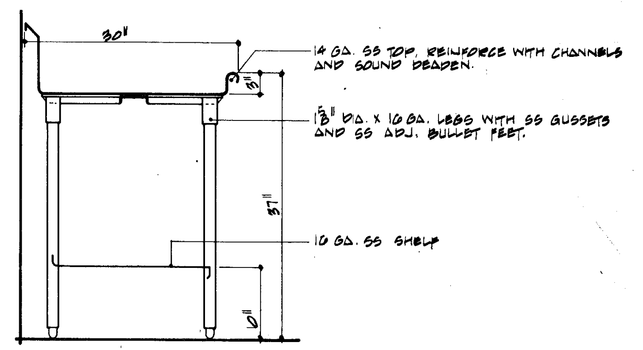
7 COOLER - FREEZER CEILING CLOSURE ITEM NO. 32



9 COOLER - FREEZER WALL TRIM ITEM NO. 32



11 TYPICAL TABLE BACKSPLASH



12 DISHTABLE ITEM NO. 5

GENERAL NOTES

ALL EQUIPMENT SHALL BE FURNISHED AND INSTALLED IN STRICT CONFORMANCE WITH ALL STATE AND/OR LOCAL CODES.

COORDINATE AND ASSIST THE VARIOUS TRADES IN THE PROPER INSTALLATION OF COMPONENTS WHICH ARE FURNISHED WITH THE EQUIPMENT, BUT INSTALLED BY THESE TRADES.

ALL DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO START OF FABRICATION.

ALL EQUIPMENT WHICH IS NOT PORTABLE (ON CASTERS) AND WHERE IT ABUTTS OTHER FIXED EQUIPMENT, BUILDING WALLS, FLOOR OR CEILING SHALL BE SEALED AND/OR TRIMMED OUT WITH SILICONE AND/OR SS MATCHING TRIM. GAPS EXCEEDING 3/8" IN WIDTH MUST BE TRIMMED OUT WITH STAINLESS STEEL OR MATCHING TRIM.

REFER TO ELECTRICAL, MECHANICAL AND ARCHITECTURAL TRADES NOTES FOR ADDITIONAL RESPONSIBILITIES.

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LEE BROCK WHITE REGISTERED NO. 10666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

FOOD SERVICE PLAN & DETAILS

DRAWN BY: FV | COMM. NO.: 8455.00
CHECKED BY: FV | DATE: 11 NOV 1985
REVISIONS NO. DATE

FS-1

ELM ROAD 8455.00

SYMBOLS

● ROUGH IN	SOLID PIPING BY DIV. 15
○ EQUIPMENT CONNECTION	FLEX. PIPING BY KEC
◉ FLOOR DRAIN	EXHAUST DUCT OPENING
○ OPEN SIGHT DRAIN	SUPPLY DUCT OPENING
▣ SANITARY FLOOR DRAIN	
ⓐ CONNECTION NUMBER	② EQUIPMENT NUMBER

ABBREVIATIONS

G	GAS	FFD	FUNNEL FLOOR DRAIN
SS	STEAM SUPPLY	BHP	BOILER HORSEPOWER
SR	STEAM RETURN	BTU	BRITISH THERMAL UNIT
W	WASTE	HR	HOUR
HW	HOT WATER	CFM	CUBIC FEET/MINUTE
CW	COLD WATER	AF	ABOVE FLOOR
FD	FLOOR DRAIN	SU	STUB UP
SFD	SANITARY FLOOR DRAIN	DFA	DROP FROM ABOVE
OSD	OPEN SIGHT DRAIN	BTC	BRANCH TO CONNECTIONS

WORK BY DIVISION 15

ROUGH IN UTILITY LINES THRU WALLS, FLOOR AND CEILING AS SHOWN ON THE DRAWINGS. RUN WASTE LINES FROM THE ROUGH IN AND MAKE THE CONNECTIONS ON THE EQUIPMENT. PROVIDE ALL TRAPS, AND MANIFOLD AND INTERCONNECT SINK DRAINS WHERE SHOWN. RUN SUPPLY LINES FROM THE ROUGH IN, PROVIDE STOPS AND MAKE THE CONNECTIONS TO THE EQUIPMENT. PROVIDE ALL TRAPS, STRAINERS, VALVES AND VENTS REQUIRED FOR INSTALLATION.

ALL EXPOSED PIPING (ABOVE COUNTER HEIGHT OR IN A "DIRECT" LINE OF SIGHT SHALL BE CHROME PLATED).

INSTALL SS OR C.P. BRASS ESCUTCHEONS OR FLANGES FOR UTILITY LINES WHICH EXTEND THRU EQUIPMENT.

INSTALL FAUCETS, PRE-RINSE ASSEMBLIES, HOSE STATIONS, POT FILLERS, VACUUM BREAKERS, CHECK VALVES, FLOW CONTROL VALVES, ETC., ALL AS FURNISHED BY THE KEC.

PROVIDE ALL "INDIRECT" WASTE AND CONDENSATE LINES FROM EQUIPMENT TO FLOOR DRAINS.

REFER TO THE ITEM KITCHEN EQUIPMENT SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.

SYMBOLS

▲ ROUGH IN	DISCONNECT SWITCH
④ JUNCTION BOX	PHASE
⑤ SOLENOID	CORD AND PLUG
⑥ THERMOSTAT	WIRING BY DIVISION 16
ⓒ CONDUIT	WIRING BY KEC
⑧ RELAY	DUPLEX RECEPTACLE
⑨ ALARM	SPECIAL PURPOSE RECPL
⑩ TIMER	FLOOR RECEPTACLE
LIGHT	DROP CORD
MOTOR	ⓐ CONNECTION NUMBER
SWITCH	② EQUIPMENT NUMBER

ABBREVIATIONS

DR	DUPLEX RECEPTACLE	KW	KILOWATT
SPO	SPECIAL RECEPTACLE	HP	HORSEPOWER
JB	JUNCTION BOX	V	VOLTS
DS	DISCONNECT SWITCH	SU	STUB UP
C/P	CORD AND PLUG	AF	ABOVE FLOOR
AMP	AMPERAGE	DFA	DROP FROM ABOVE

WORK BY DIVISION 16

ROUGH IN ELECTRICAL SERVICE THRU WALLS, FLOORS AND CEILINGS AND RUN CONDUIT AND CONDUCTORS FROM THE ROUGH IN AND MAKE THE CONNECTIONS TO AN APPROVED TERMINAL BLOCK, TERMINAL PANEL OR JUNCTION BOX ON THE EQUIPMENT.

FURNISH AND INSTALL ALL ELECTRICAL OUTLETS IN WALLS, FLOOR AND CEILING.

FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED FOR THE EQUIPMENT IN ACCORDANCE WITH THE ELECTRICAL CODE.

FURNISH AND INSTALL ALL CONDUIT AND WIRING BETWEEN REMOTE CONTROL PANELS AND THE FOOD SERVICE EQUIPMENT.

REFER TO ITEM SPECIFICATIONS FOR ADDITIONAL WORK AND REQUIREMENTS.

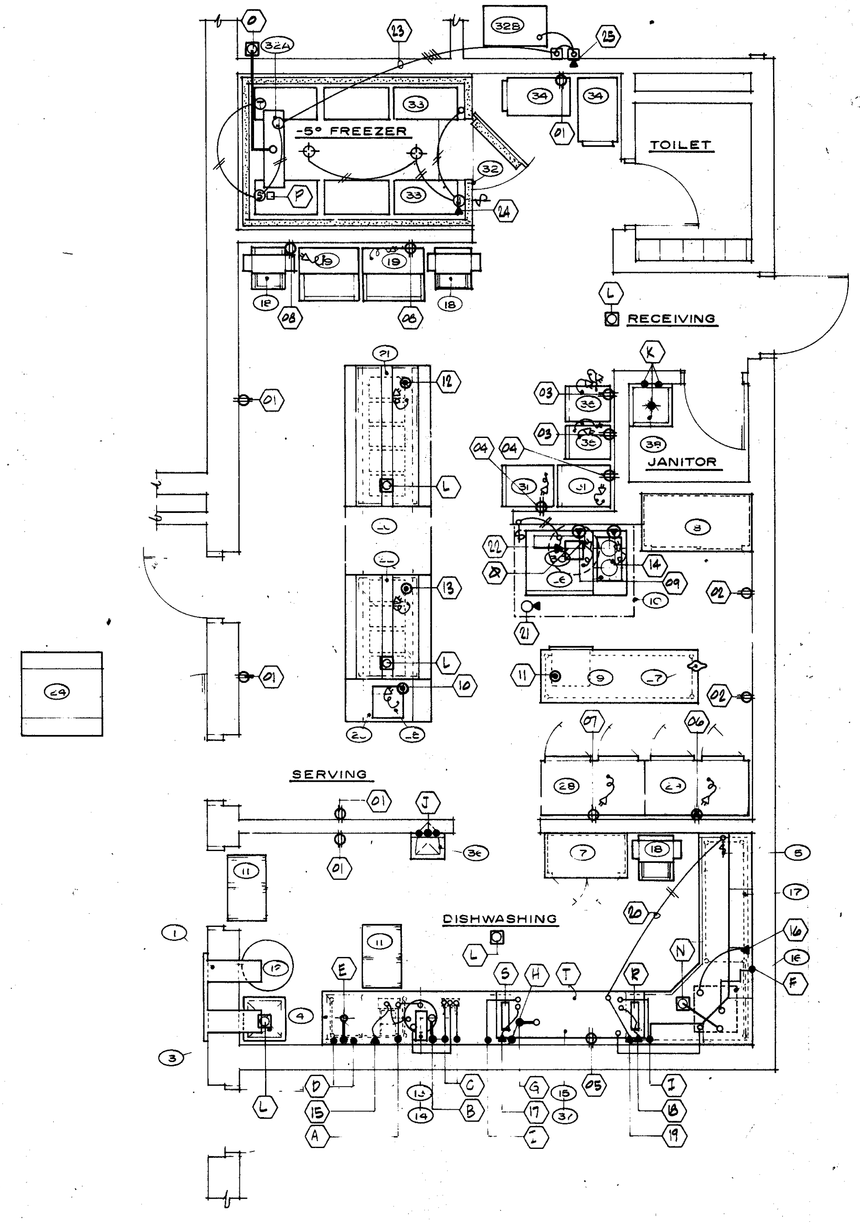
VERIFY ELECTRICAL CHARACTERISTICS OF OWNER'S EXISTING EQUIPMENT WHICH IS TO BE REUSED.

MECHANICAL DATA

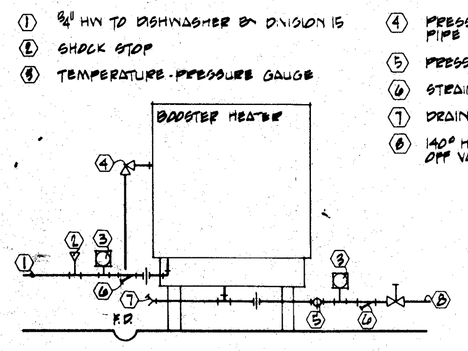
MARK	DESCRIPTION
(A)	3/4" CW, 16" AF. DIVISION 15 CONNECT TO DISPOSER THRU KEC FURNISHED CONTROLS. REFER TO PIPING DIAGRAM.
(B)	2" W, 10" AF. DIVISION 15 CONNECT TO DISPOSER.
(C)	1/2" HW, 1/2" CW, 28" AF. DIVISION 15 PIPE FROM ROUGH IN THRU THE KEC FURNISHED MIXING VALVE LOCATED BELOW THE TABLE TOP TO THE WALL MOUNTED HOSE REEL LOCATED 90" AF. THE TEMPERED WATER LINE FROM THE MIXING VALVE TO THE HOSE REEL TO BE CONCEALED WITHIN THE BUILDING WALL. SHOULD CONCEALMENT NOT BE POSSIBLE THE EXPOSED LINE SHALL BE CHROME PLATED. REFER TO HOSE REEL PIPING DIAGRAM.
(D)	1/2" HW, 1/2" CW, 16" AF. DIVISION 15 CONNECT TO FAUCET.
(E)	2" W, 16" AF. DIVISION 15 CONNECT TO DRAIN VALVE ON BOTTOM OF SINK.
(F)	3/4" 140 DEGREE HW, 12" AF. DIVISION 15 INSTALL KEC FURNISHED COMPONENTS AND CONNECT TO WASHER THRU BOOSTER HEATER. REFER TO BOOSTER HEATER PIPING DIAGRAM
(G)	2" W, SU 4" AF. DIVISION 15 CONNECT TO WASHER DRAINS.
(H)	2" W, 24" AF. DIVISION 15 CONNECT TO DISHTABLE SCUPPER DRAIN.
(I)	1/2" 140 DEGREE HW, 16" AF. DIVISION 15 CONNECT TO WASHER.
(J)	1/2" HW, 1/2" CW, 1-1/2" W. HAND SINK BY DIVISION 15.
(K)	3/4" HW, 3/4" CW, 3" W. MOP SINK BY DIVISION 15.
(L)	FLOOR DRAIN, AREA DRAIN
(M)	FLOOR DRAIN. DRAIN LINES FROM EQUIPMENT TO FLOOR DRAIN BY DIVISION 15.
(N)	FLOOR DRAIN, FUNNEL TYPE. DRAIN LINES FROM BOOSTER HEATER TO FLOOR DRAIN BY DIVISION 15.
(O)	FLOOR DRAIN, FUNNEL TYPE. 3/4" CONDENSATE DRAIN LINES FROM FREEZER COIL TO FLOOR DRAIN BY DIVISION 15. PROVIDE "STAND-OFFS" TO ALLOW 1" CLEARANCE BETWEEN WALLS AND PIPING.
(P)	REFRIGERATION LINES TO REMOTE COMPRESSORS BY KEC.
(Q)	THE CANOPY EXHAUSTS A TOTAL OF 1500 CFM THRU A 12" SQUARE DUCT. CANOPY, DUCTWORK, EXHAUST FAN AND ROOF CURB PROVIDED BY KEC. STATIC PRESSURE IS 1/2".
(R)	4" X 16" EXHAUST DUCT CONNECTION, 6" ABOVE FINISHED CEILING. EXHAUST FAN AND ALL WELDED SS DUCTS ABOVE FINISHED CEILING BY DIVISION 15. CFM = 400
(S)	4" X 16" EXHAUST DUCT CONNECTION, 6" ABOVE FINISHED CEILING. EXHAUST FAN AND ALL WELDED SS DUCTS ABOVE FINISHED CEILING BY DIVISION 15. CFM = 200
(T)	THE DISHWASHER DISSIPATES THE FOLLOWING AMOUNT OF HEAT INTO THE DISHWASH ROOM WHICH MUST BE EXHAUSTED BY MEANS OTHER THAN THE EXHAUST DUCTS ON THE ENDS OF THE DISHWASHER. LATENT HEAT = 90,500 BTU/HR. SENSIBLE HEAT = 39,000 BTU/HR.

ELECTRICAL DATA

MARK	DESCRIPTION
(01)	20.0 AMP 120V-1 DUPLEX RECEPTACLE FLUSH MOUNTED IN WALL 16" AF.
(02)	20.0 AMP 120V-1 DUPLEX RECEPTACLE FLUSH MOUNTED IN WALL 48" AF.
(03)	1.8 KW 120V-1 DUPLEX RECEPTACLE FLUSH MOUNTED IN WALL 48" AF.
(04)	1.5 KW 120V-1 DUPLEX RECEPTACLE FLUSH MOUNTED IN WALL 48" AF.
(05)	20.0 AMP 120V-1 DUPLEX RECEPTACLE FLUSH MOUNTED IN WALL 60" AF.
(06)	10.1 AMP 120/208V-1 RECEPTACLE FLUSH MOUNTED IN WALL 90" AF.
(07)	12.3 AMP 120V-1 RECEPTACLE FLUSH MOUNTED IN WALL 90" AF.
(08)	.25 HP 120V-1 DUPLEX RECEPTACLE FLUSH MOUNTED IN WALL 16" AF.
(09)	11.0 KW 480V-3 SPECIAL PURPOSE RECEPTACLE FLUSH MOUNTED IN WALL 48" AF.
(10)	20.0 AMP 120V-1 FLUSH MOUNTED FLOOR RECEPTACLE WITH WATERTIGHT HINGED COVER PLATE. (DEDICATED CIRCUIT FOR CASH REGISTER)
(11)	20.0 AMP 120V-1 FLUSH MOUNTED FLOOR RECEPTACLE WITH WATERTIGHT HINGED COVER PLATE.
(12)	50.0 AMP 208V-1 THREE WIRE FLUSH MOUNTED FLOOR RECEPTACLE WITH WATERTIGHT HINGED COVER. DIVISION 16 PROVIDE A NEMA 6-50R RECEPTACLE.
(13)	30.0 AMP 208V-1 THREE WIRE FLUSH MOUNTED FLOOR RECEPTACLE WITH WATERTIGHT HINGED COVER. DIVISION 16 PROVIDE A NEMA 6-30R RECEPTACLE.
(14)	5.2 KW 208V-1 THREE WIRE FLUSH MOUNTED WALL RECEPTACLE 48" AF.
(15)	2.0 HP 480V-3 24" AF. DIVISION 16 WIRE TO DISPOSER AND SOLENOID VALVE THRU THE DISPOSER CONTROL PANEL.
(16)	40.0 KW 480V-3 12" AF. DIVISION 16 CONNECT TO TERMINAL ON BOOSTER HEATER WITH "SEAL-TIGHT" CONDUIT.
(17)	10.0 KW 480V-3 12" AF. DIVISION 16 CONNECT TO DISHWASHER.
(18)	20.0 KW 480V-3 12" AF. DIVISION 16 CONNECT TO DISHWASHER.
(19)	TWO 1.5 HP 480V-3 14" AF. DIVISION 16 CONNECT TO DISHWASHER.
(20)	DIVISION 16 WIRE FROM MICRO SWITCH ON END OF CLEAN DISHTABLE TO THE AUTOMATIC ENERGY SAVINGS CONTROL BOX AND FROM THE CONTROL BOX TO THE DISHWASHER. REFER TO MANUFACTURERS LITERATURE FOR ADDITIONAL INFORMATION.
(21)	.30 KW 120V-1 DROP FROM ABOVE AND CONNECT TO JUNCTION BOX ON CANOPY. DIVISION 16 WIRE FROM ROUGH IN TO THE JB ON TOP OF HOOD FOR CANOPY LIGHTS. LIGHT SWITCH WITH INDICATOR LIGHT BY DIVISION 16.
(22)	.33 HP 120V-1 ON BUILDING ROOF FOR AIR HANDLER. DIVISION 16 WIRE FROM THE ROUGH IN AND CONNECT TO DISCONNECT SWITCH ON AIR HANDLER. WIRE FROM TERMINAL BLOCK ON AIR HANDLER TO CONTROL SWITCH. CONTROL SWITCH WITH INDICATOR LIGHT BY DIVISION 16.
(23)	CONDUIT AND FIVE WIRES FROM JUNCTION BOX ON FREEZER COIL TO THE REMOTE TIMER ON THE COMPRESSOR. DIVISION 16 WIRE KEC FURNISHED ROOM TEMPERATURE CONTROLS. WIRE DRAIN LINE HEATER TO FREEZER COIL "HOT" TERMINALS. REFER TO FREEZER COIL WIRING DIAGRAM.
(24)	0.75 KW 120V-1 DROP FROM ABOVE AND CONNECT TO JUNCTION BOX ON TOP OF FREEZER CEILING. DIVISION 16 WIRE FROM JB ON TOP OF FREEZER CEILING TO KEC FURNISHED LIGHT FIXTURES. ALL CONDUIT AND WIRE SHALL BE INSTALLED ABOVE AND ON THE OUTSIDE OF THE FREEZER CEILING. ALL PENETRATIONS THRU THE -FREEZER WALLS AND CEILING ARE TO BE EQUIPPED WITH "SEAL-OFFS". WIRE PERIMETER DOOR HEATERS AND AIR RELIEF VENT HEATERS.
(25)	1.5 HP 208V-3, 54" AF. DIVISION 16 CONNECT TO KEC FURNISHED DISCONNECT SWITCH ON THE COMPRESSOR. DISCONNECT SWITCH TO BE FACTORY WIRED TO THE COMPRESSOR AND TIMER. REFER TO FREEZER/COIL COMPRESSOR WIRING DIAGRAM.

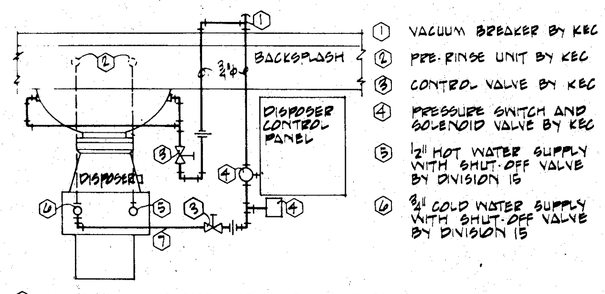


KITCHEN EQUIPMENT UTILITY PLAN 1/4" = 1'-0"



① 3/4" HW TO DISHWASHER BY DIVISION 15
② SHOCK STOP
③ TEMPERATURE-PRESSURE GAUGE
④ PRESSURE REDUCE VALVE, PIPE TO FLOOR DRAIN
⑤ PRESSURE REDUCE VALVE
⑥ STRAINER
⑦ DRAIN VALVE
⑧ 140° HW SUPPLY WITH SHUT OFF VALVE BY DIV. 15

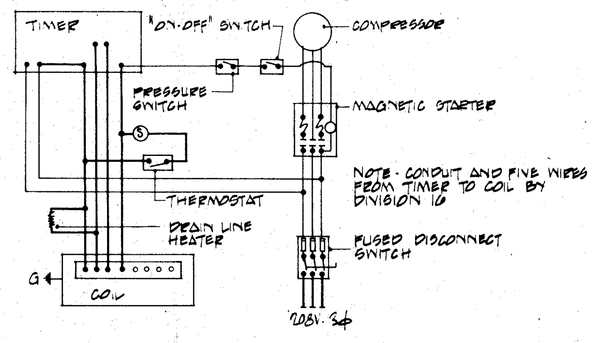
13 BOOSTER HEATER PIPING ITEM NO. 16



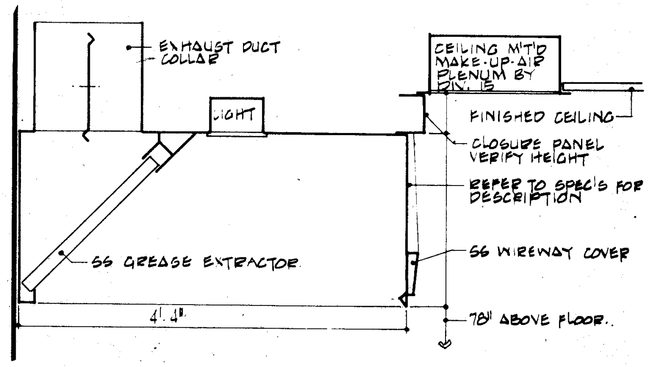
① VACUUM BREAKER BY KEC
② PRE-RINSE UNIT BY KEC
③ CONTROL VALVE BY KEC
④ PRESSURE SWITCH AND SOLENOID VALVE BY KEC
⑤ 1/2" HOT WATER SUPPLY WITH SHUT-OFF VALVE BY DIVISION 15
⑥ 3/4" COLD WATER SUPPLY WITH SHUT-OFF VALVE BY DIVISION 15

⑦ ALL PIPING AND INSTALLATION BY DIVISION 15

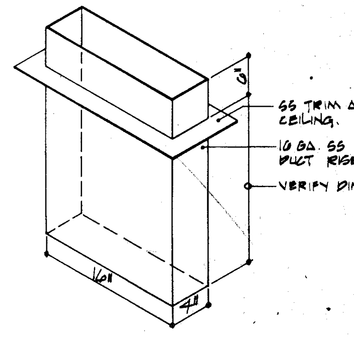
14 DISPOSER PIPING ITEM NO. 13



15 FREEZER COIL-COMPRESSOR WIRING, ITEM NO. 32



16 VENTILATOR ITEM NO. 10



17 DISHWASHER DUCT ITEM NO. 15

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LEE BROCKWAY REGISTERED STATE OF INDIANA No. 10606 ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

FOOD SERVICE PLAN & DETAILS

DRAWN BY: FV COMM. NO.: 8455.00
CHECKED BY: FV DATE: 11 NOV. 1985

REVISIONS NO. DATE

FS-2

ELM ROAD 8455.00

MATCH LINE RE: FOUNDATION PLAN UNIT 'C'

8" CMU AROUND COLUMN FROM EL 99'-4" TO BOTT. FINISHED FLOOR.

8" CMU W/#4 @ 1'-4" C-C (DOWELED INTO FTG.) GROUT ALL CORES UP TO EL. 100'-0"

RE: 9-A17 STEM THICKNESS 18" TO EL 98'-0" & 14" TOP OF WALL @ EL 102'-8"

RE: SITE PLAN FOR LENGTH & LOCATION.

RE: 3-S3 FOR MASONRY REINFORCING THIS AREA

DOWEL FOOTING REINF. INTO RETAINING WALL

RE: 2-S3 FOR MASONRY REINF. FROM TOP OF CONCRETE WALL TO FINAL GRADE ON EXTERIOR. EMBED REINF IN TOP OF CONC. WALL.

T/FTG. THIS AREA EL. 105'-4" UNLESS NOTED.

OUTSIDE FACE EXIST. FOUNDATION WALL.

MATCH POINT

OUTSIDE FACE OF EXISTING FOUNDATION WALL

INSIDE FACE EXISTING FOUNDATION WALL

LOCATE AT ℄ EXISTING INTERIOR CONC. COL. IN BOILER ROOM.

INSIDE FACE EXIST. FND WALL. RE: 2-S4 FOR CLOSURE WALL @ EXIST. OPENINGS IN WALL

REINF. WALL SAME AS 9-S3.

OUTSIDE FACE OF EXIST. FND. WALL

OUTSIDE FACE EXIST. FOUNDATION WALL

EXIST. MECHANICAL TRENCH

LIMITS OF MECHANICAL TRENCH SLAB REPLACEMENT RE: G-S4

4"ø 8" CMU W/#4 @ 1'-4" C-C (DOWELED INTO FTG.) GROUT ALL CORES UP TO EL. 112'-8"

EXTERIOR FACE OF EXIST. FOUNDATION WALL.

PROVIDE 3-#7 TOP & BOTT. OF FTG. THIS AREA.

RE: SHT. S5 AND A2 FOR COL LOCATIONS (3 PLACES)

NOTES:

RE: DRAWING S2 FOR GENERAL NOTES, FOUNDATIONS & STRUCTURAL ABBREVIATIONS.
RE: S-S9 FOR TYPICAL COLUMN BASE PLATE, SETTING PLATE, AND ANCHOR BOLT DETAILS.
RE: DRAWING S2 FOR COL. FTG. SCHEDULE.

(V.I.F.) = VERIFY IN FIELD.

ALL WALLS, FTGS, AND STRUCTURAL MEMBERS ORIENTED AT AN ANGLE TO THE GRID SHOWN ARE AT 45° UNLESS NOTED OTHERWISE.

NORTH

FOUNDATION PLAN UNIT 'A'

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

LAWSON-FISHER ASSOCIATES
525 W. Washington South Bend, Indiana 46601

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GREGORY L. HOLDER REGISTERED No. 13457 STATE OF INDIANA PROFESSIONAL ENGINEER
Gregory L. Holder

LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

KEY PLAN

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

FOUNDATION PLAN UNIT A
DRAWN BY: DAO COMM. NO.: 8455.00
CHECKED BY: GLH DATE: 11 NOV. 1985
REVISIONS NO. DATE

S-1

ELM ROAD 8455.00

RE: 2-S3 FOR MASONRY REINF. FROM TOP OF CONC. WALL TO FINAL GRADE ON OUTSIDE EMBED REINF. IN TOP OF WALL.

RE: 1-A17 & 3A17 FOR TOP OF WALL CONFIGURATION AND ELEVATIONS

11-S9 FOR WALL REINF. RE: 10A-S4

RE: 2-S3 FOR MASONRY REINF. FROM TOP OF CONC. WALL TO FINAL GRADE ON EXTERIOR EMBED REINF. IN TOP OF WALL.

16"x16" BLOCKOUT FULL HEIGHT FOR COLUMN

VERIFY IN FIELD

MATCH LINE RE: FOUNDATION PLAN UNIT 'A'

COLUMN FOOTING SCHEDULE

Column Designation	Size	FOOTING Reinforcing (Bottom)	FOOTING Top Elev.	PIER Size	PIER Reinforcing	PIER Top Elev.	Remarks
B6, B1, H1, M1, W3 T3, AC1, W5, H8 AB10, AG10	4'x4'x1'	5 - #5 BW	99'-4"				
H6, M3, M6, W6, Y11	5'x5'x1'-9"	9 - #7 BW	99'-4"				
AJ 29	3'x3'x1'	4 - #5 BW	103'-4"	14"x14"	4-#6, #3 Ties @ 12"	108'-8"	
AI 29	1'-6" x 3' x 1'	3 - #7	106'-8"	14"x16"	4-#6, #3 Ties @ 12"	108'-8"	RE: 15-S3
AD 30	5'-6"x5'-6"x1'-2"	6 - #6 BW	108'-8"				
AF 33	3' x 3' x 1'	4 - #5 BW	108'-8"				
D 32	Existing			4"x1'-6"	RE: 3-S4	108'-10 5/8"	RE: 3-S4
L 32	4'-6"x 4'-6"x1'	5 - #5 BW	108'-8"				
J34, H32, H28, H27 L27, O27, D25, D21 D19	4'x4'x1'	5 - #5 BW	108'-8"				
O32, C28, A27	4'x4'x1'	5 - #5 BW	103'-4"	16"x16"	4 - #6, #3 Ties @ 12"	108'-8"	
D27	8'x8'x3'	9 - #6 BW	108'-8"				Also 9 - #6 Top BW Embed Anchor Bolts 2'-6"
K22, H22	3'x3'x1'	4 - #5 BW	108'-8"	15"x16"	4 - #6, #3 Ties @ 12"	108'-8"	RE: 4-S3
H26	2'x4'x1'	3 - #7	103'-8"	16"x16"	4 - #6, #3 Ties @ 12"	108'-8"	
P18	2'x2'x8"	3 - #5 BW	108'-8"				
V33	6'x5'x1'-6"	7 - #6 BW	103'-8"				RE: 11-S3

Column Designation	Size	FOOTING Reinforcing (Bottom)	FOOTING Top Elev.	PIER Size	PIER Reinforcing	PIER Top Elev.	Remarks
G33	3'x6'x1'	3-#7	109'-8"	16"x16"	4-#6, #3 Ties @ 12"	108'-8"	RE: 13-S3
B28	4'x6'x1'	5-#5 BW	100'-8"				
V17	4'x6'x1'	5-#5 BW	104'-0"	16"x16"	4-#6, #3 Ties @ 12"	105'-8"	
W15	4'x4'x1'	5-#5 BW	100'-8"	16"x16"	4-#6, #3 Ties @ 12"	103'-4"	
Y15, AC15	RE: S1	RE: 7-S3	99'-4"				
AB15	RE: S1	RE: 7-S3	96'-4"				
Y14	RE: S1	RE: 7-S4	99'-4"				
W14	4'x4'x1'	5-#5 BW	100'-8"	16"x16"	4-#6, #3 Ties @ 12"	103'-4"	
U12	RE: S2	RE: 9-S4	99'-4"	16"x16"	4-#6, #3 Ties @ 12"	101'-4"	
N13	7'x7'x1'-6"	8-#6 BW	99'-4"				
R9, T9	4'x4'x1'-3"	5-#5 BW	99'-4"				
B11	RE: S2	RE: 7-S3	99'-4"				
R1	RE: S2	RE: 7-S3	97'-3"	RE:13-S3	RE: 13-S3	111'-0"	
R3	7'x7'x1'-6"	8-#6 BW	96'-0"	16"x16"	4-#6, #3 Ties @ 12"	99'-4"	
P3	5'x5'x1'-2"	6-#5 BW	96'-0"	16"x16"	4-#6, #3 Ties @ 12"	99'-4"	
(O4+23), (X5+83)	12'x6'x1'-9"	#6 @ 12" BW	99'-4"				
R6, T6	6'x6'x1'-4"	7-#6 BW	99'-4"	#			
AC 11	6'x6'x1'-4"	7-#6 BW	96'-0"	16"x16"	4-#6, #3 Ties @ 12"	99'-4"	
AH 31, MA 31	3'x3'x1'	4-#5 BW	108'-8"				

1. FOUNDATIONS ARE DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 3000 PSF AT BOTTOM OF FOOTING. (NET PRESSURE)
2. BOTTOM OF ALL FOOTING EXCAVATIONS SHALL BE COMPACTED PRIOR TO PLACING CONCRETE. (EXCLUDING BACKFILL FOR BERMS).
3. FOUNDATION WALLS SHALL BE OF REINFORCED AND FULLY GROUTED NORMAL WEIGHT HOLLOW LOAD BEARING (HL) CMU (ASTM C90) EXCEPT AS NOTED.
4. EXTERIOR FACE OF ALL EXTERIOR FOUNDATION WALLS TO BE DAMPPROOFED. RE: SPECIFICATIONS AND APPROPRIATE DETAILS.
5. RE: ARCHITECTURAL PLANS AND DETAILS FOR ALL SLABS-ON-GRADE.
6. ALL CONCRETE SHALL BE F'_c=4000 PSI AT 28 DAYS. RE: SPECIFICATIONS.
7. RE: ACI 318-83 PARAGRAPH 7.7.1 FOR PROTECTIVE COVERING ON REINFORCING UNLESS OTHERWISE NOTED ON DRAWINGS.
8. MINIMUM LAP LENGTH OF REINFORCING STEEL AT SPLICES SHALL BE 32 BAR DIAMETERS OR 14-0" MINIMUM UNLESS OTHERWISE NOTED.
9. PROVIDE DOWELS FOR ALL HORIZONTAL REINFORCING AT CORNERS IN WALLS, INCLUDING ALL BOND BEAMS.
10. ALL REINFORCING STEEL SHALL BE FY = 60,000 PSI.
11. COORDINATE WITH HVAC & PLUMBING CONTRACTORS FOR INSTALLATION OF ALL REQUIRED SLEEVES, INSERTS, ETC.
12. ALL BOND BEAMS ARE TO BE FILLED WITH CONCRETE AND REINFORCED WITH 2-#5 BARS CONTINUOUSLY EXCEPT OTHERWISE NOTED.
13. ○——— OPEN COLUMN LINE BUBBLE INDICATES DETAIL APPLIES TO SEVERAL LOCATIONS.

GENERAL NOTES - FOUNDATIONS

ALT. ARCH.	ALTERNATE ARCHITECTURAL	MAX. MECH. MIN. MSRY.	MAXIMUM MECHANICAL MINIMUM MASONRY
BM. BOTT. BRG.	BEAM BOTTOM BEARING	NO.-#	NUMBER
CMU	CONCRETE MASONRY UNIT	OPNG. OPP. HD.	OPENING OPPOSITE HAND
C. TO C. CL. COL. CONC. CONSTR. CONT. CONTR.	CENTER TO CENTER CLEAR-CLEARANCE COLUMN CONCRETE CONSTRUCTION CONTINUOUS CONTRACTOR	P PSF PSI	PLATE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH
DTL. DRWG.	DETAIL DRAWING	RE: REINF. REQD.	REFER TO REINFORCING REQUIRED
EA. E.F. ELECT. EL. EQU. EQUIP. E.W. EXIST. EXP	EACH EACH FACE ELECTRICAL ELEVATION EQUAL EQUIPMENT EACH WAY EXISTING EXPANSION	SECT. SIM. SPA. SPEC. STD. STL. STRUCT.	SECTION SIMILAR SPACE SPECIFICATIONS STANDARD STEEL STRUCTURAL
FIN. FLR. FND. FTG.	FINISH FLOOR FOUNDATION FOOTING	THK. TYP. U.N.	THICK-THICKNESS TYPICAL UNLESS NOTED
GA. G.C.	GAUGE GENERAL CONTRACTOR	VERT.	VERTICAL
HORIZ.	HORIZONTAL	W/ WWF	WITH WELDED WIRE FABRIC
JST. JT.	JOIST JOINT		
L LLH LLV	ANGLE LONG LEG HORIZONTAL LONG LEG VERTICAL		

STRUCTURAL ABBREVIATIONS

NORTH

FOUNDATION PLAN UNIT 'C'

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GREGORY L. HOLDEN REGISTERED No. 18457 STATE OF INDIANA PROFESSIONAL ENGINEER

LEE BROCKWAY REGISTERED No. 10561 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

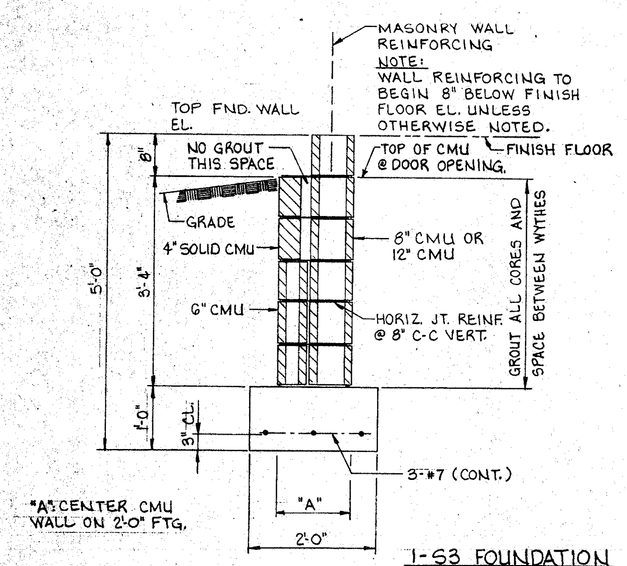
KEY PLAN

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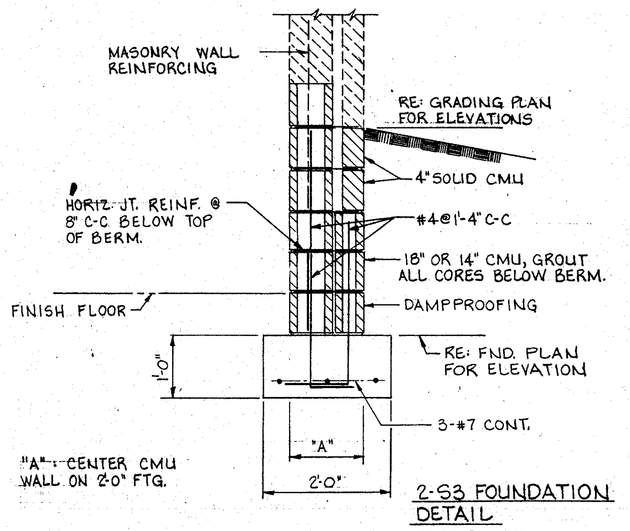
FOUNDATION PLAN UNIT C
DRAWN BY: DAO, T.H. COMM. NO.: 8455.00
CHECKED BY: GLH DATE: 11 NOV. 1985
REVISIONS NO. DATE

S-2

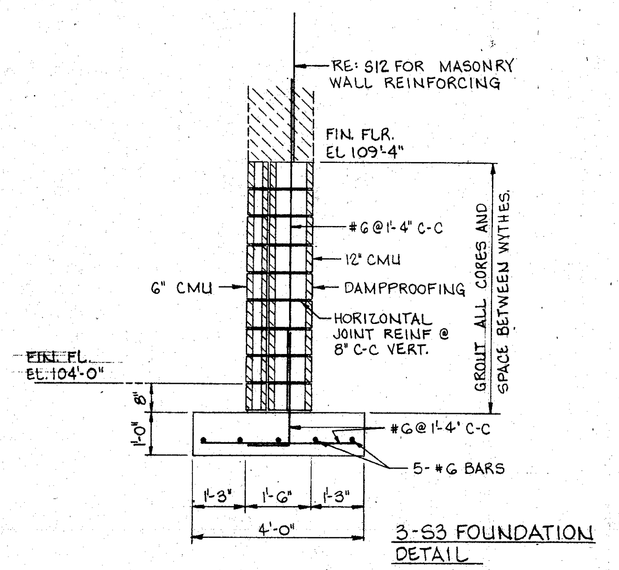
ELM ROAD 8455.00



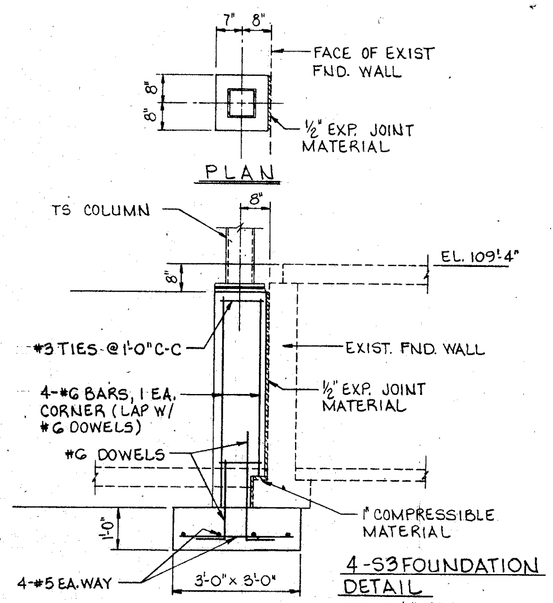
1-S3 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



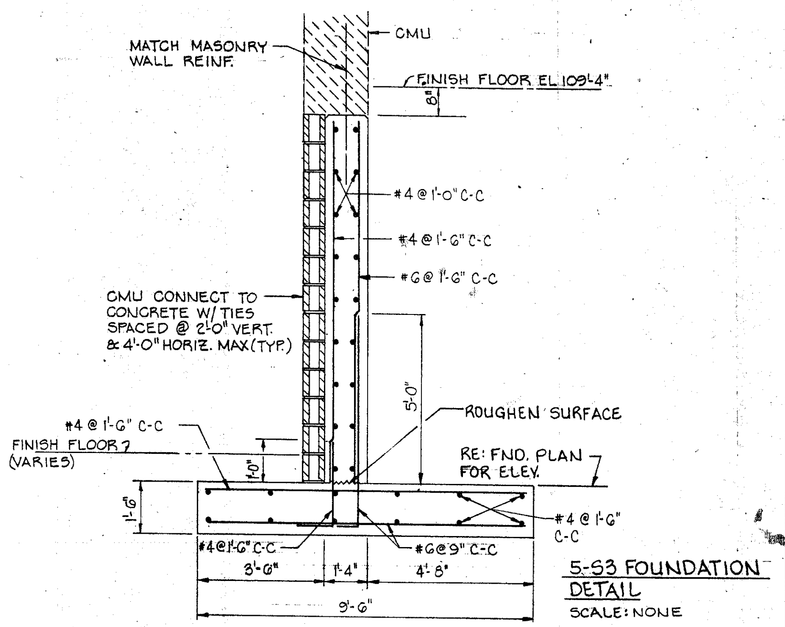
2-S3 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



3-S3 FOUNDATION DETAIL
SCALE: 1/2" = 1'-0"



4-S3 FOUNDATION DETAIL
SCALE: 1/2" = 1'-0"



5-S3 FOUNDATION DETAIL
SCALE: NONE

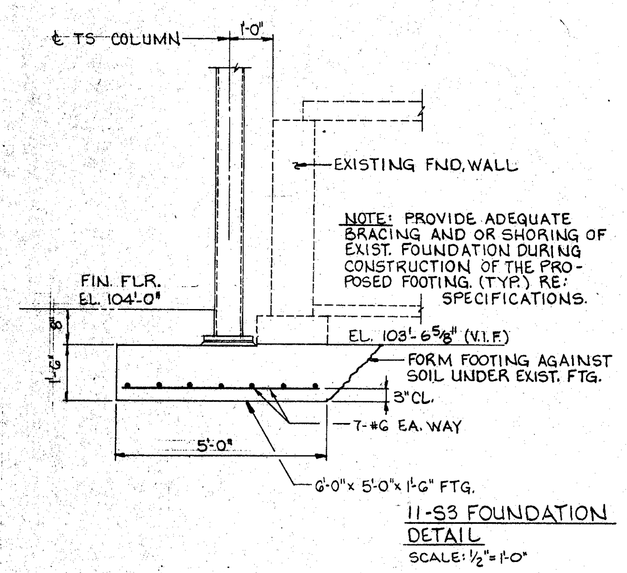
6-S3 FOUNDATION DETAIL
SCALE: NONE

7-S3 FOUNDATION DETAIL
SCALE: 1/2" = 1'-0"

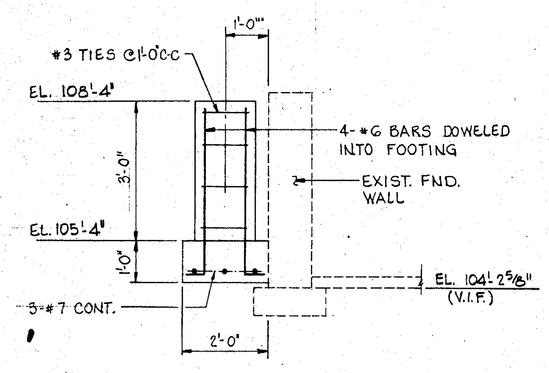
8-S3 STEPPED FOOTING DETAIL
SCALE: NONE

9-S3 FOUNDATION DETAIL
SCALE: 1/2" = 1'-0"

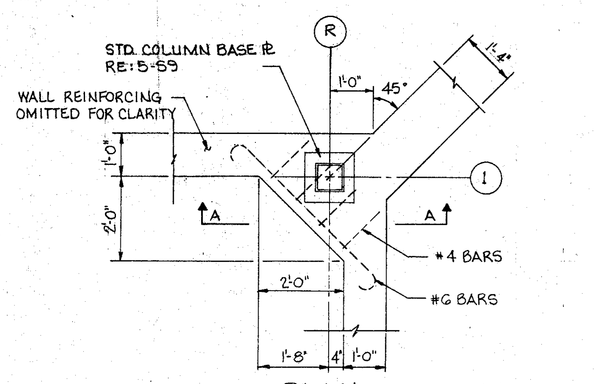
10-S3 FOUNDATION DETAILS
SCALE: 1/2" = 1'-0"



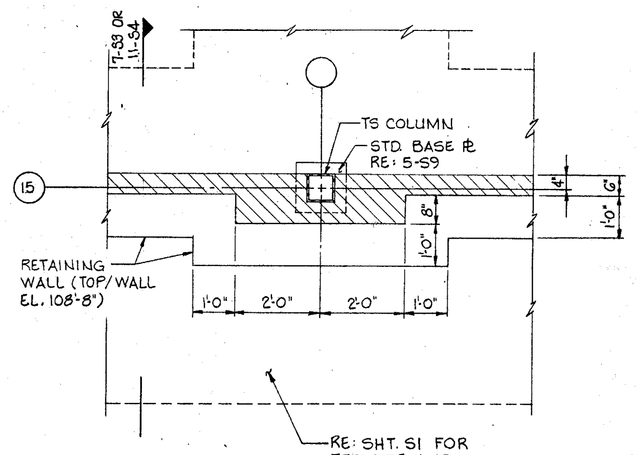
11-S3 FOUNDATION DETAIL
SCALE: 1/2" = 1'-0"



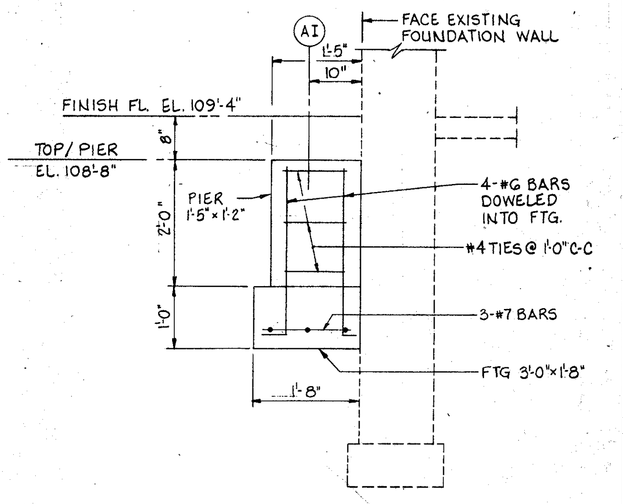
12-S3 FOUNDATION DETAIL
SCALE 1/2" = 1'-0"



13-S3 COLUMN SUPPORT
SCALE: 1/2" = 1'-0"



14-S3 COLUMN AT RETAINING WALL
SCALE: 1/2" = 1'-0"



15-S3 DETAIL FOOTING & PIER
SCALE: 3/4" = 1'-0"

FOUNDATIONS DETAILS

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LEE BROCKWAY — No. 10666 — REGISTERED — STATE OF INDIANA — ARCHITECT

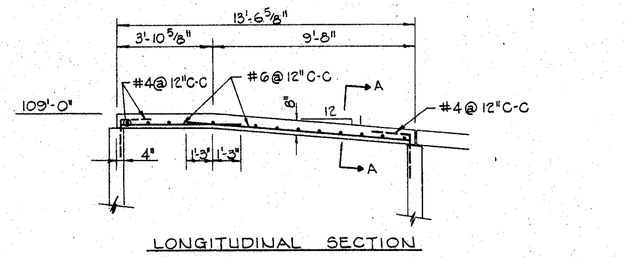
ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

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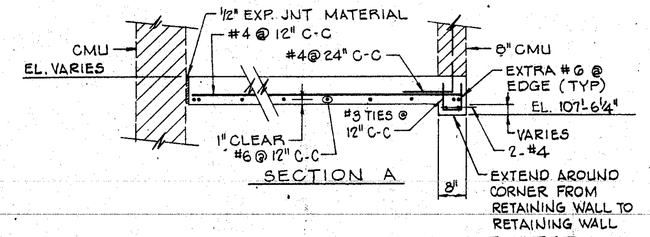
FOUNDATION DETAILS

DRAWN BY: DRO	COMM. NO.: 8455.00
CHECKED BY: GLH	DATE: 11 NOV. 1985
REVISIONS NO. DATE	S-3

ELM ROAD 8455.00

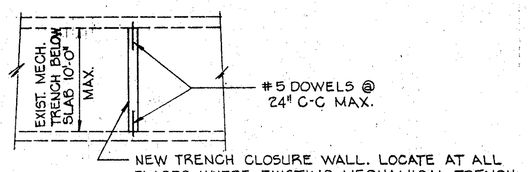


LONGITUDINAL SECTION

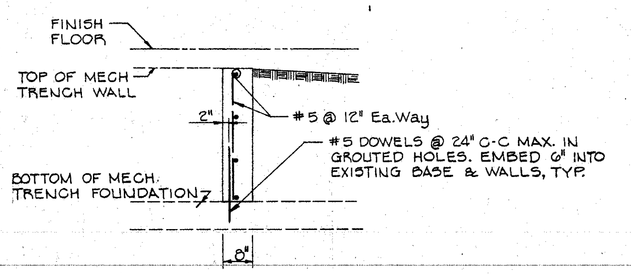


SECTION A

1-S4 ELEVATED SLAB DETAIL
SCALE : NONE

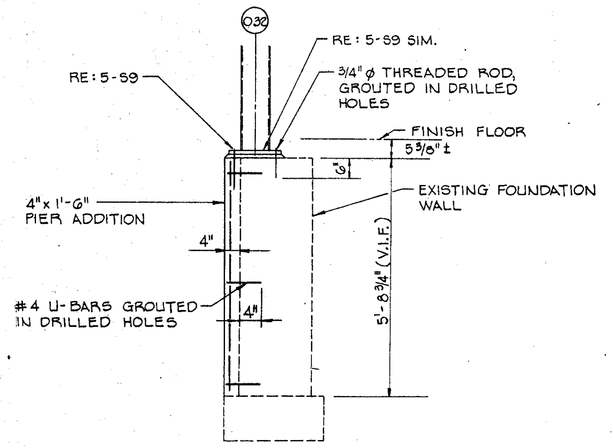


PLAN

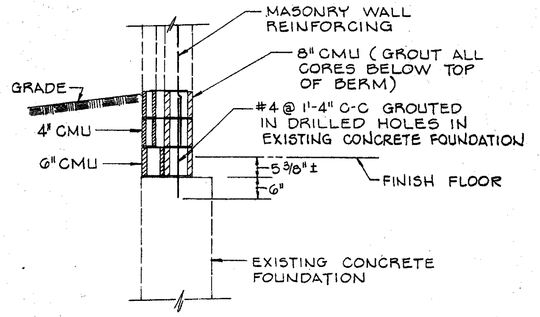


SECTION

2-S4 FOUNDATION DETAIL
SCALE : NONE



3-S4 FOUNDATION DETAIL
SCALE 1/2" = 1'-0"



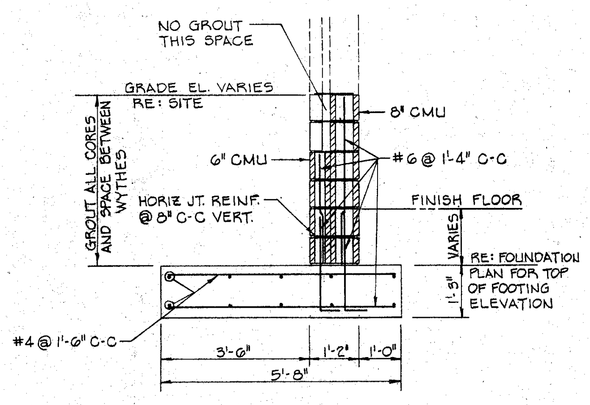
4-S4 FOUNDATION DETAIL
SCALE : 1/2" = 1'-0"

5-S4 FOUNDATION DETAIL
SCALE : 3/4" = 1'-0"

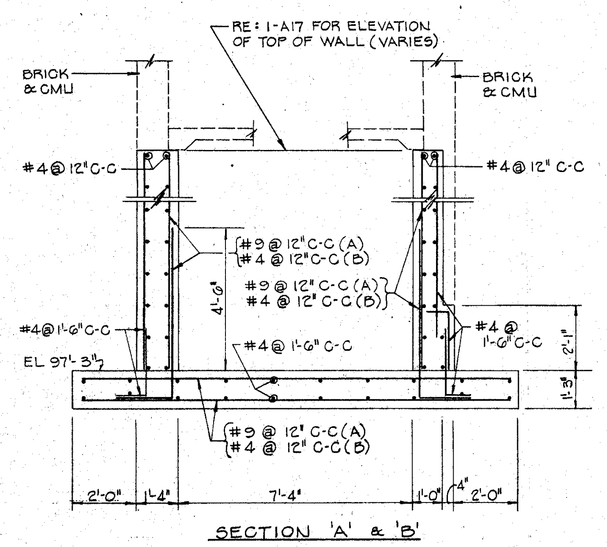
6-S4 FOUNDATION DETAIL
SCALE : 3/8" = 1'-0"

7-S4 FOUNDATION DETAIL
SCALE 1/2" = 1'-0"

8-S4 FOUNDATION DETAIL
SCALE : NONE



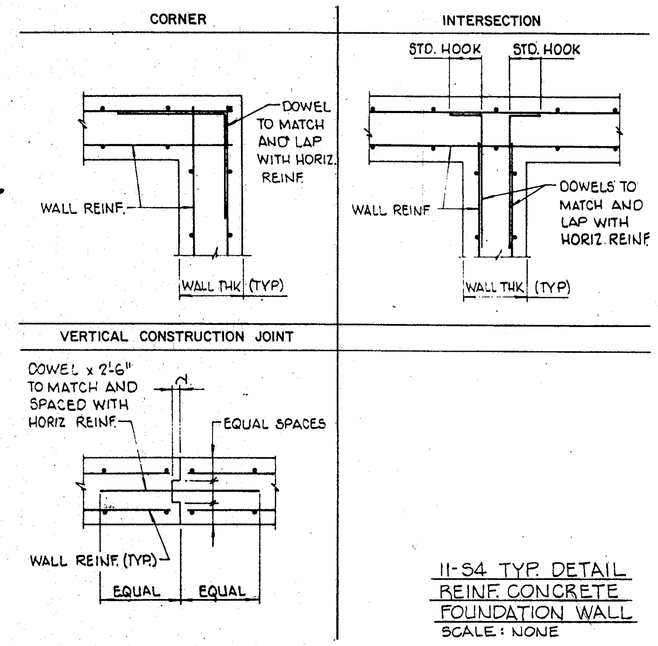
9-S4 FOUNDATION DETAIL
SCALE : NONE



SECTION 'A' & 'B'

A = ABOVE INTERMEDIATE LANDING
B = AT INTERM. LANDING & BELOW

10-S4 FOUNDATION DETAIL
SCALE 3/8" = 1'-0"



11-S4 TYP. DETAIL REINF. CONCRETE FOUNDATION WALL
SCALE : NONE

STRUCTURAL DETAILS

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GREGORY L. HOLDER REGISTERED No. 18457 STATE OF INDIANA PROFESSIONAL ENGINEER

LEE BROCKWAY REGISTERED No. 10664 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

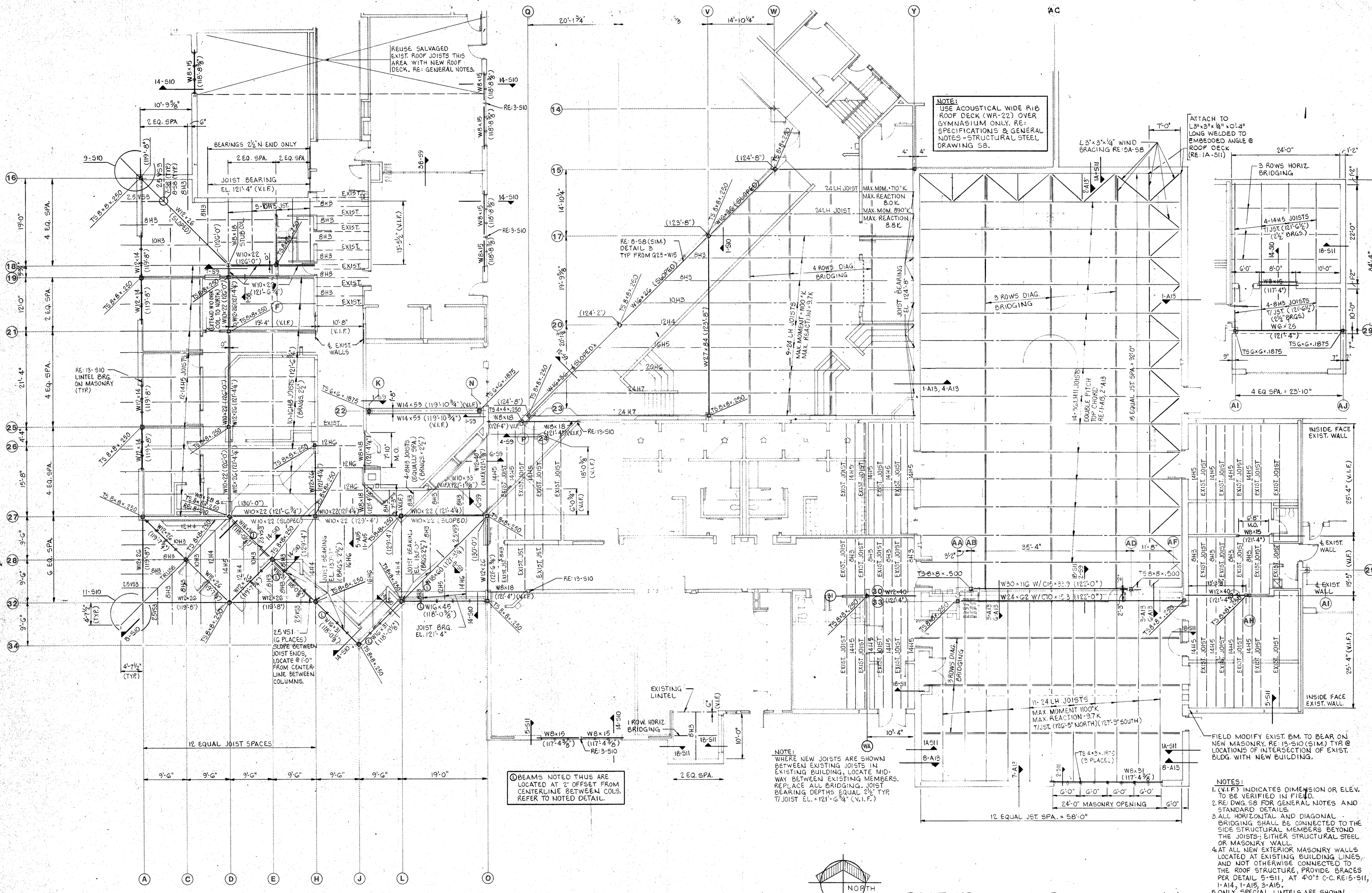
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FOUNDATION DETAILS

DRAWN BY: DO — COMM. NO.: 8455.00
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REVISIONS NO. DATE

S-4

ELM ROAD 8455.00



ROOF FRAMING PLAN UNIT 'A'

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

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LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

KEY PLAN

FANNING/HOWEY ASSOCIATES, Inc.
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ROOF FRAMING PLAN UNIT A

DRAWN BY: DAO COMM. NO.: 8455.00
CHECKED BY: GLH DATE: 11 NOV. 1985
REVISIONS NO. DATE

S-5

ELM ROAD 8455.00

ROOF FRAMING PLAN UNIT 'B'

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

NOTES:

1. RE: DWG. S8 FOR GENERAL NOTES AND STANDARD DETAILS.
2. ALL JOIST BEARINGS TO BE 5" (THIS LEVEL) UNLESS NOTED OTHERWISE.
3. JOIST BEARING ELEVATIONS ON THE EXTERIOR MASONRY WALL ARE AT EL. 122'-4" UNLESS NOTED OTHERWISE.
4. USE A COMPRESSIBLE, NONCOMBUSTIBLE FILLER MATERIAL BETWEEN JOISTS AND STAIR MASONRY THAT GOES TO ROOF DECK AND ALL OTHER MASONRY THAT COMES IN CONTACT WITH THE JOISTS AT POINTS OTHER THAN AT THE END BEARINGS.
5. ALL HORIZONTAL AND DIAGONAL BRIDGING SHALL BE CONNECTED TO THE SIDE STRUCTURAL MEMBERS BEYOND THE JOISTS; EITHER STRUCTURAL STEEL OR MASONRY WALL.
6. ONLY SPECIAL LINTELS ARE SHOWN. RE: S13 FOR TYPICAL LINTEL SIZES.

NORTH

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
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MISHAWAKA, INDIANA

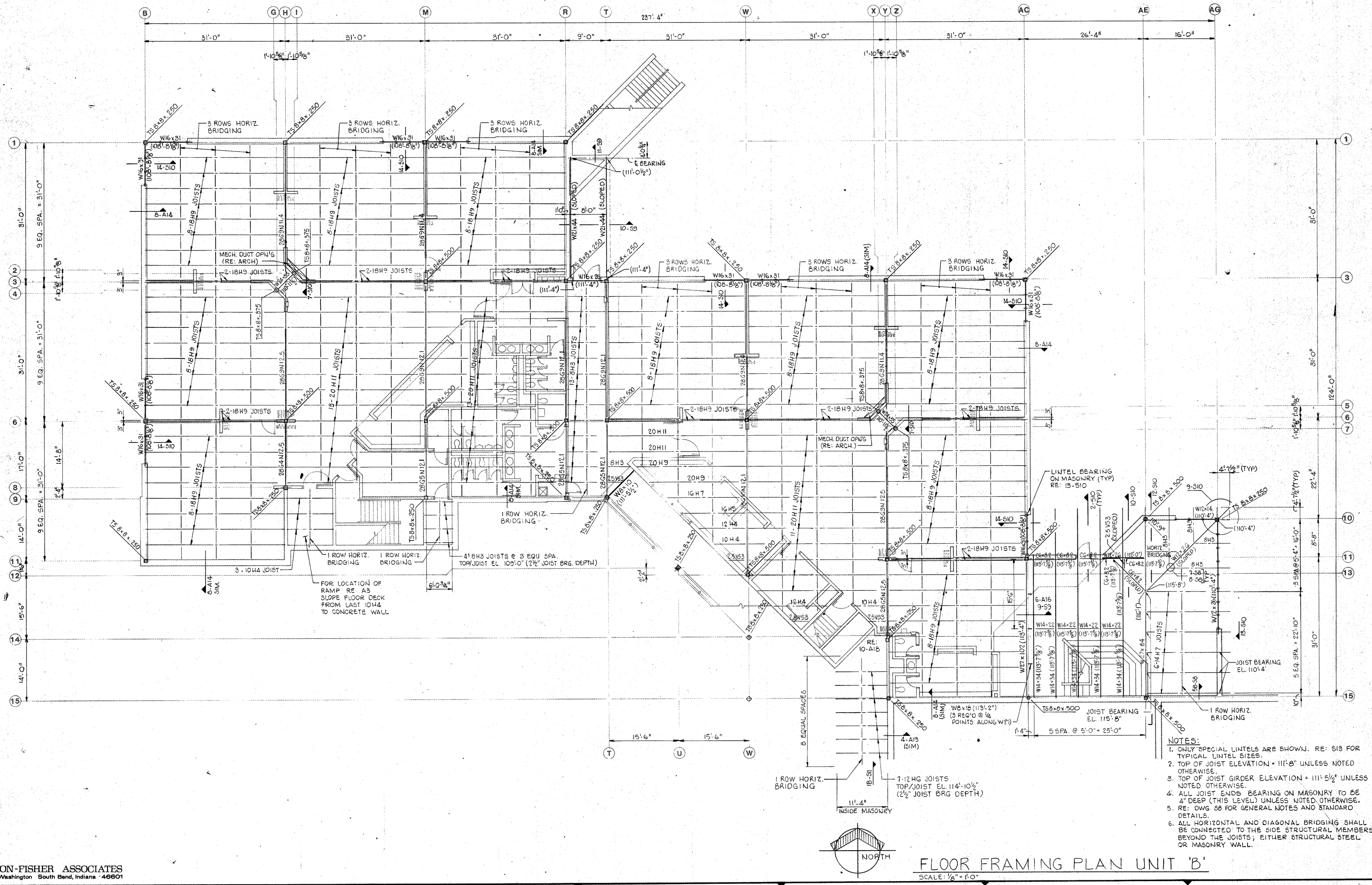
KEY PLAN

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ROOF FRAMING PLAN UNIT B
DRAWN BY: DAO, TJH COMM. NO.: 8455.00
CHECKED BY: GLH DATE: 11 NOV. 1985
REVISIONS NO. DATE

S-6

ELM ROAD 8455.00



NOTES:

1. ONLY SPECIAL LINTELS ARE SHOWN. RE: S13 FOR TYPICAL LINTEL SIZES.
2. TOP OF JOIST ELEVATION = 111'-8" UNLESS NOTED OTHERWISE.
3. TOP OF JOIST GIRDER ELEVATION = 111'-5½" UNLESS NOTED OTHERWISE.
4. ALL JOIST ENDS BEARING ON MASONRY TO BE 4" DEEP (THIS LEVEL) UNLESS NOTED OTHERWISE.
5. RE: DWG. S8 FOR GENERAL NOTES AND STANDARD DETAILS.
6. ALL HORIZONTAL AND DIAGONAL BRIDGING SHALL BE CONNECTED TO THE SIDE STRUCTURAL MEMBERS BEYOND THE JOISTS; EITHER STRUCTURAL STEEL OR MASONRY WALL.

FLOOR FRAMING PLAN UNIT 'B'

SCALE: ⅛" = 1'-0"

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

KEY PLAN

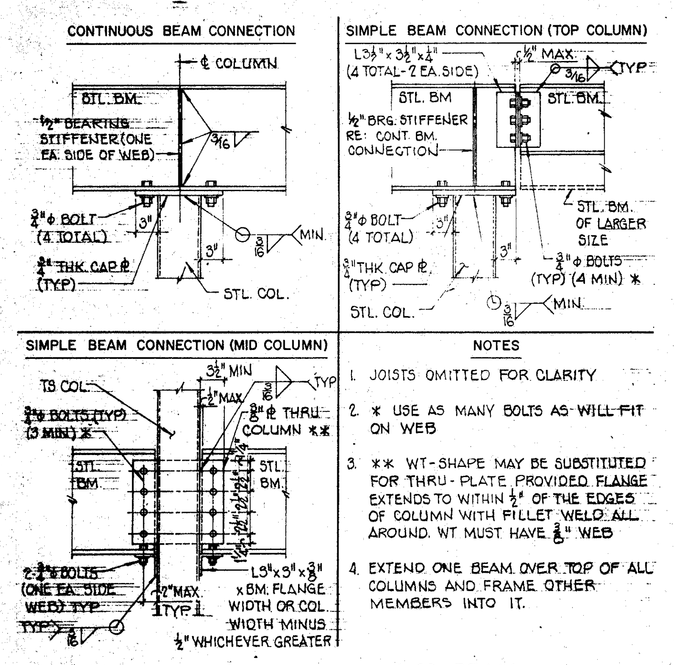
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FLOOR FRAMING PLAN UNIT B

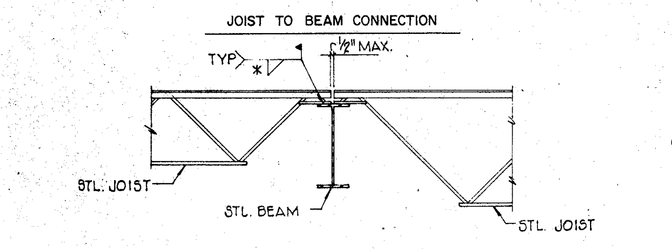
DRAWN BY: DAO, TJH | COMM. NO.: 8455.00
CHECKED BY: GLH | DATE: 11 NOV. 1985
REVISIONS NO. DATE

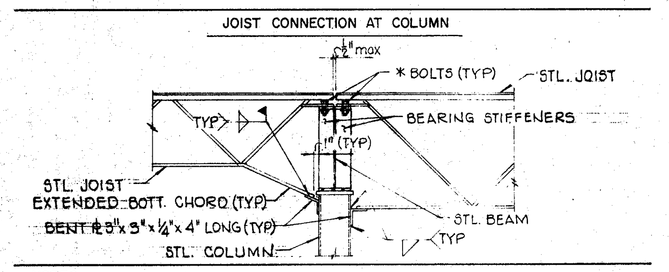
S-7

ELM ROAD 8455.00



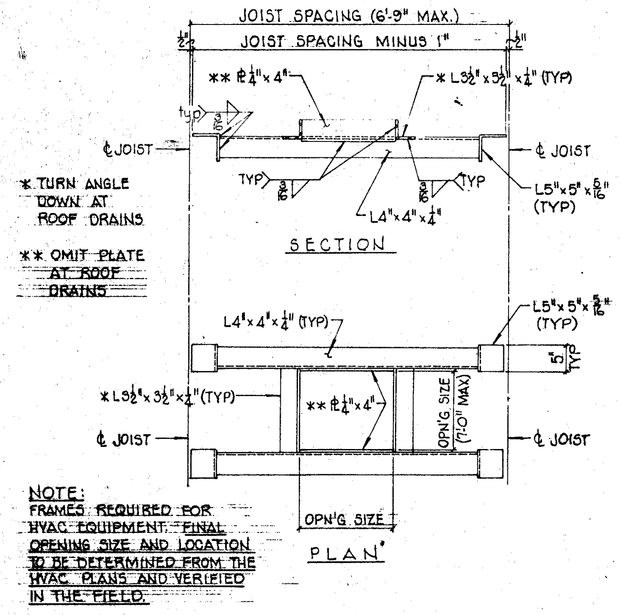
1-S8 BEAM CONNECTIONS SCALE: NONE





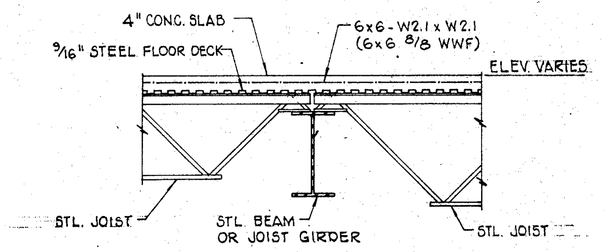
NOTES:
1. METAL DECK OMITTED FOR CLARITY
2. * SEE S.J.I. SPECIFICATIONS FOR JOIST TO BEAM WELD AND BOLT SIZES REQUIRED.

2-S8 JOIST BEARING ON STEEL SCALE: NONE



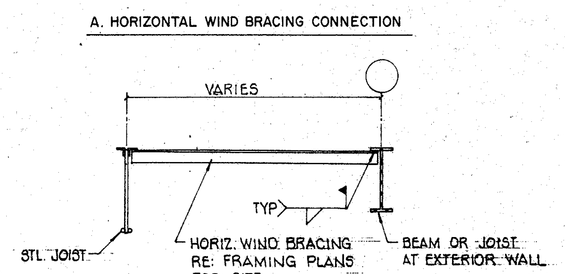
NOTE:
FRAMES REQUIRED FOR HVAC EQUIPMENT. FINAL OPENING SIZE AND LOCATION TO BE DETERMINED FROM THE HVAC PLANS AND VERIFIED IN THE FIELD.

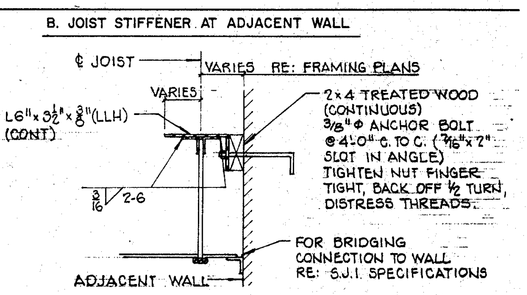
3-S8 ROOF & FLOOR OPENING FRAME SCALE: NONE



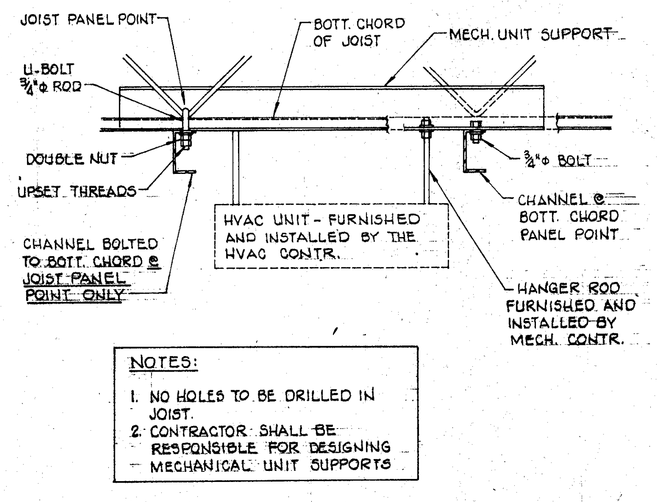
NOTE:
STEEL FLOOR DECK SHALL BE GALVANIZED 9/16" DEEP, 24 GA. STAY-IN-PLACE FORMS WITH:
A. I ≥ 0.055 IN⁴/FT.
B. I ≥ 0.017 IN⁴/FT.
F_y = 80,000 PSI.
ACCEPTABLE PRODUCTS ARE:
A. VULCRAFT, 6C CSV CONFORM
B. EPIC, MF-50
C. GRANCO, STANDARD CORRUFORM
D. ROLL FORM, TYPE S
E. OR APPROVED EQUAL

4-S8 CONCRETE FLOOR SLAB SCALE: NONE



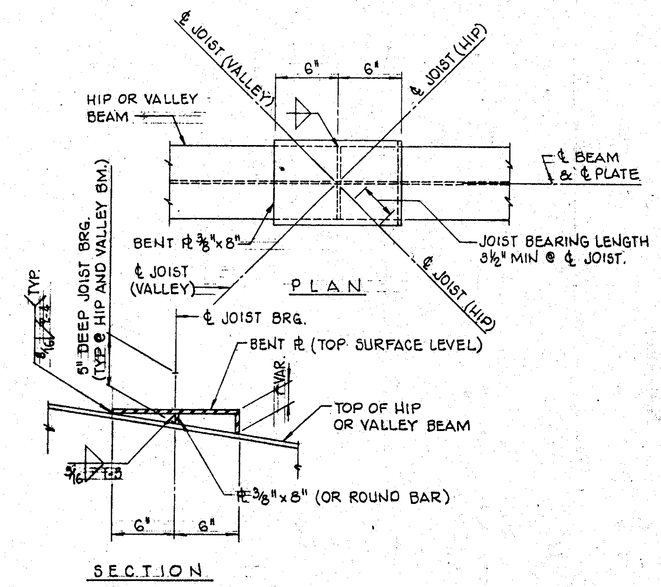


5-S8 JOIST BRACING SCALE: NONE

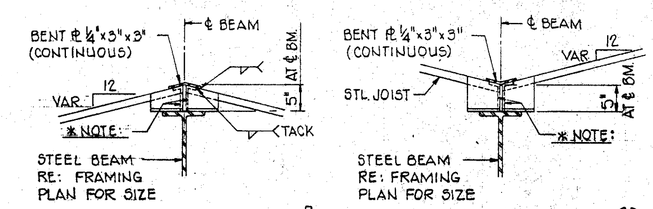


NOTES:
1. NO HOLES TO BE DRILLED IN JOIST.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING MECHANICAL UNIT SUPPORTS

6-S8 SUSPENDED MECHANICAL EQUIPMENT SUPPORT SCALE: NONE

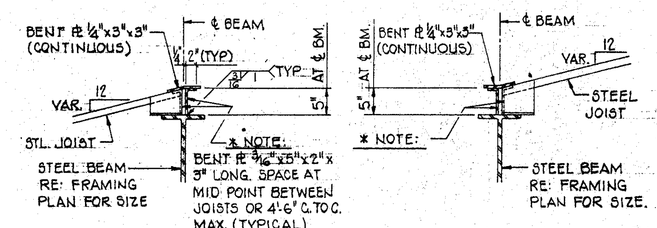


7-S8 JOIST BEARING ON SLOPING BEAM SCALE: NONE



ROOF DECK SUPPORT - HIP

ROOF DECK SUPPORT - VALLEY



ROOF DECK SUPPORT - HIP

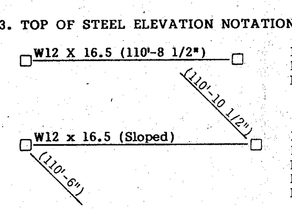
ROOF DECK SUPPORT - VALLEY

8-S8 ROOF DECK ON SLOPING BEAM SCALE: NONE

8-S3	STEPPED FOOTING DETAIL
11-S4	REINF. CONCRETE FOUNDATION WALL
1-S8	BEAM CONNECTIONS
2-S8	JOIST BEARING ON STEEL
3-S8	ROOF AND FLOOR OPENING FRAME
4-S8	CONCRETE FLOOR SLAB
5-S8	JOIST BRACING
6-S8	SUSPENDED MECHANICAL EQUIP. SUPPORT
7-S8	JOIST BEARING ON SLOPING BEAM
8-S8	ROOF DECK ON SLOPING BEAM
3-S9	OPERABLE WALL SUPPORT
5-S9	COLUMN BASE PLATE
13-S10	BEAM BEARING ON MASONRY
6-S11	BEAM BEARING ON MASONRY
7-S11	JOIST BEARING ON MASONRY

TYPICAL DETAILS

1. STEEL ROOF DECK SHALL BE 1-1/2" STANDARD WIDE RIB DECK (WR22), GALVANIZED 22 GAGE CONFORMING TO THE STEEL DECK INSTITUTE & FACTORY MUTUAL STANDARDS. (TWO OR MORE SPAN LOADING CONDITIONS) THE ROOF DECK OF THE GYMNASIUM AREA SHALL BE ACOUSTICAL. RE: SPECIFICATIONS.
2. STEEL FLOOR DECK SHALL BE GALVANIZED RIBBED STEEL DECKING, WITH 9/16" MINIMUM CORRUGATIONS, 24 GAGE CONFORMING TO THE STEEL JOIST INSTITUTE AND FACTORY MUTUAL STANDARDS. (TWO OR MORE SPAN LOADING CONDITIONS.)
3. THE STEEL FLOOR DECK IS THE FORM FOR A 4" CONCRETE DECK WITH 6x6 -W2.1xW2.1 WELDED WIRE FABRIC, PLACED 1-3/4" BELOW THE TOP SURFACE.
4. ALL STEEL DECK MUST BE CAREFULLY WELDED TO ALL JOISTS TO PROVIDE LATERAL SUPPORT. SPACING OF WELDS ALONG TOP CHORD OF JOISTS SHALL NOT EXCEED 12 INCHES. ALL BURN HOLES IN DECK SHALL BE REPAIRED WITH METAL OF THE SAME GAGE AS THE DECK AND SPOT PAINTED WITH GALVANIZED PAINT.
5. STEEL JOIST SHALL CONFORM TO S.J.I. SPECIFICATIONS.
6. EXTEND ALL BOTTOM CHORDS OF JOISTS TO COLUMNS. RE: TYPICAL JOIST CONNECTIONS.
7. FURNISH BRIDGING BETWEEN JOISTS IN ACCORDANCE WITH S.J.I. SPECIFICATIONS.
   H SERIES - HORIZONTAL AND WELDED
   LH and DLH SERIES - DIAGONAL AND BOLTED
8. STRUCTURAL STEEL SHALL BE AS FOLLOWS EXCEPT AS OTHERWISE NOTED:
   STRUCTURAL SHAPES - ASTM A36 (Fy = 36 KSI)
   STRUCTURAL TUBES - ASTM A500 (Fy = 46 KSI) GRADE B
9. FIELD CONNECTIONS SHALL BE BOLTED WITH 3/4"Ø ASTM A325 BOLTS EXCEPT AS OTHERWISE NOTED AND WHERE WELDING IS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
10. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS & BRIDGES" AND SPECIFICATIONS.
11. ALL MASONRY WALLS SHALL BE ANCHORED TO STEEL COLUMNS WITH FLEXIBLE TIES. RE: SPECIFICATIONS.
13. TOP OF STEEL ELEVATION NOTATION:



INDICATES THAT THE W12x16.5 BEAM IS LEVEL WITH THE TOP OF ITS FLANGE AT ELEV. 110'-8 1/2"

INDICATES THAT THE W12X16.5 BEAM IS SLOPED WITH THE TOP OF ITS FLANGE AT ELEV. 110'-6" AND ELEV. 110'-10 1/2" AT THE CENTER-LINE OF THE TWO COLUMNS.

14. ALL JOIST BEARINGS TO BE 5" DEEP UNLESS NOTED.
15. ALL JOIST GIRDER BEARINGS TO BE 6" DEEP UNLESS NOTED.
16. ALL STRUCTURE ELEVATIONS ARE BASED ON THE TOP SURFACE OF THE EXISTING BUILDING FLOOR BEING ELEV. 109'-4".
17. THE EXTENDED ENDS ON A JOIST SHALL BE DESIGNED TO CARRY THE ALLOWABLE UNIFORM LOAD FOR THAT JOIST.

GENERAL NOTES - STRUCTURAL STEEL

DESIGNED IN ACCORDANCE WITH THE UNIFORM BUILDING CODE, 1985.

WINDLOAD

DESIGNED FOR 20 PSF BASIC WIND PRESSURE

EARTHQUAKE

DESIGNED FOR EARTHQUAKE LOADS IN EARTHQUAKE ZONE 1

DESIGN LOADS

SLOPED ROOF (4:12)		LOW SLOPE ROOF	
ASPHALT SHINGLES & FELT	6 PSF	MEMBRANE ROOFING	10 PSF
3/4" PLYWOOD	3 PSF	3" RIGID INSULATION	5 PSF
3" RIGID INSULATION	5 PSF	1 1/2" STEEL ROOF DECK	2 PSF
1 1/2" STEEL ROOF DECK	2 PSF	CEILING	2 PSF
CEILING	2 PSF	MECH./ELECT.	5 PSF
MECH./ELECT.	5 PSF	TOTAL DEAD LOAD	24 PSF
TOTAL DEAD LOAD	23 PSF		
LIVE LOAD (SNOW)	30 PSF AT UNIFORM AREAS		
LIVE LOAD (SNOW)	90 PSF ON LOWER ROOF @ DISCONTINUITIES		
FLOOR			
4" CONC. ON 9/16" STEEL DECK	50 PSF		
CEILING & PARTITIONS	10 PSF		
MECH./ELECT.	5 PSF		
TOTAL DEAD LOAD	65 PSF		
LIVE LOAD	100 PSF (STAIRS)		
	80 PSF (CORRIDORS)		
	40 PSF (CLASSROOMS)		

DESIGN DATA

LAWSON-FISHER ASSOCIATES
525 W. Washington South Bend, Indiana 46601

STRUCTURAL DETAILS

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GREGORY L. HOLDEN REGISTERED No. 18457 STATE OF INDIANA PROFESSIONAL ENGINEER

LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

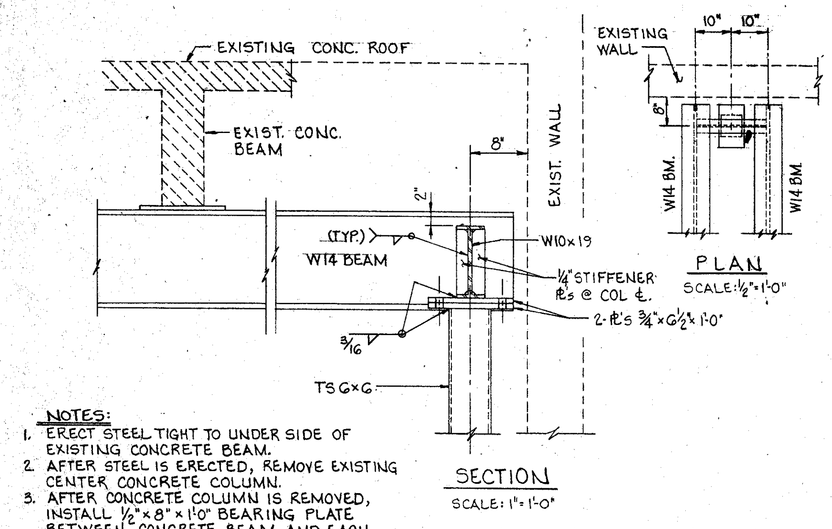
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STRUCTURAL DETAILS
DRAWN BY: TJH COMM. NO.: 8455.00
CHECKED BY: GLH DATE: 11 NOV. 1985
REVISIONS NO. DATE

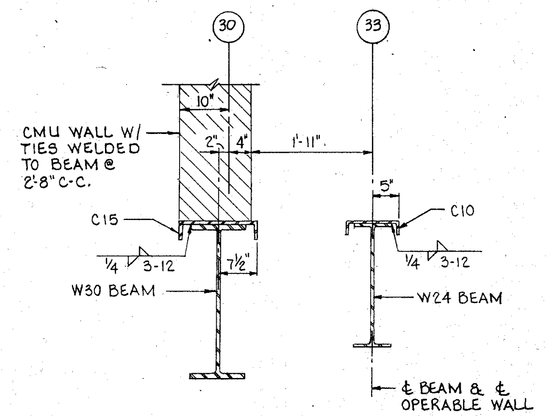
S-8

ELM ROAD 8455.00

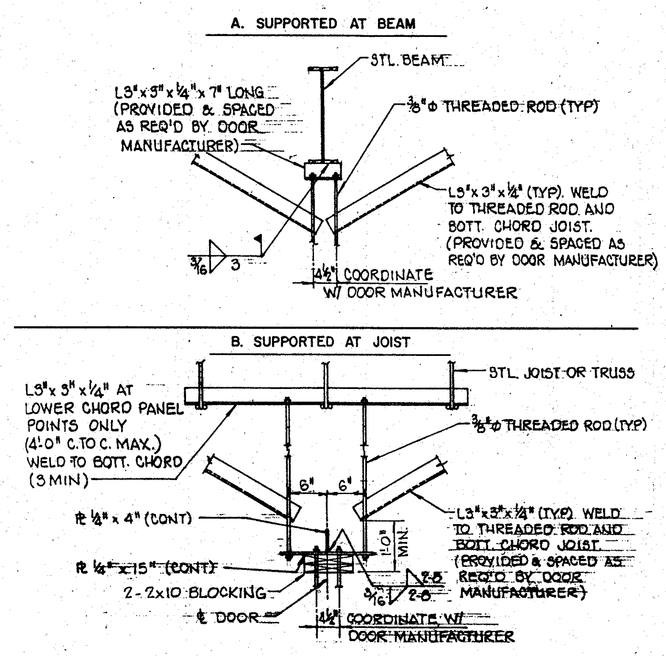


NOTES:
1. ERECT STEEL TIGHT TO UNDER SIDE OF EXISTING CONCRETE BEAM.
2. AFTER STEEL IS ERECTED, REMOVE EXISTING CENTER CONCRETE COLUMN.
3. AFTER CONCRETE COLUMN IS REMOVED, INSTALL 1/2"x8"x1'0" BEARING PLATE BETWEEN CONCRETE BEAM AND EACH W14 BEAM. TACK WELD TO W14.

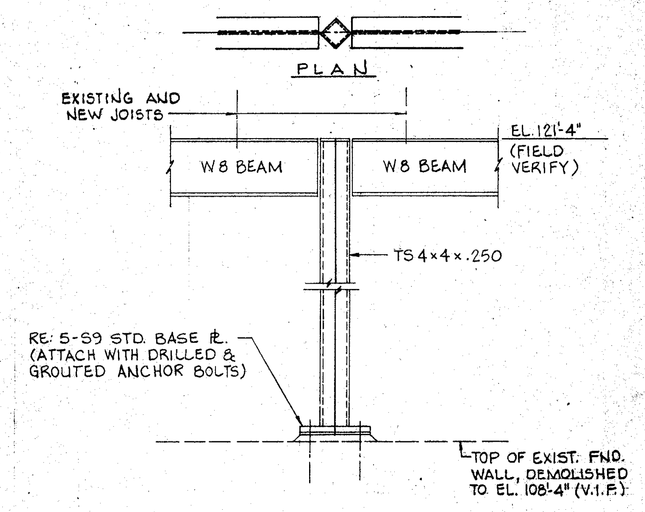
1-S9 STEEL FRAMING DETAIL
SCALE: AS NOTED



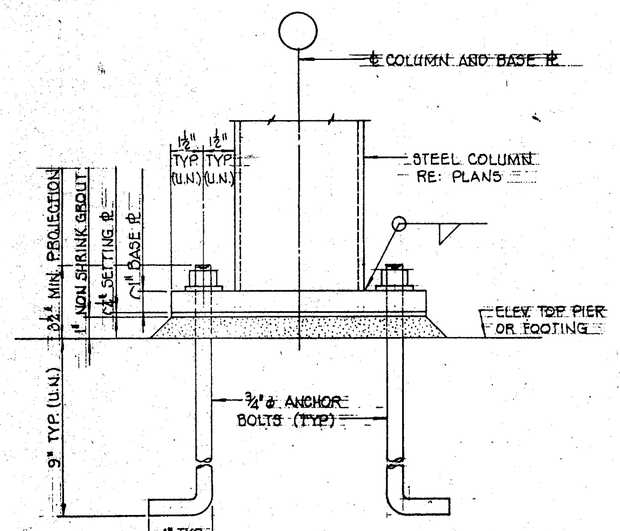
2-S9 STEEL FRAMING DETAIL
SCALE: 3/4"=1'-0"



3-S9 OPERABLE WALL SUPPORT
SCALE: NONE

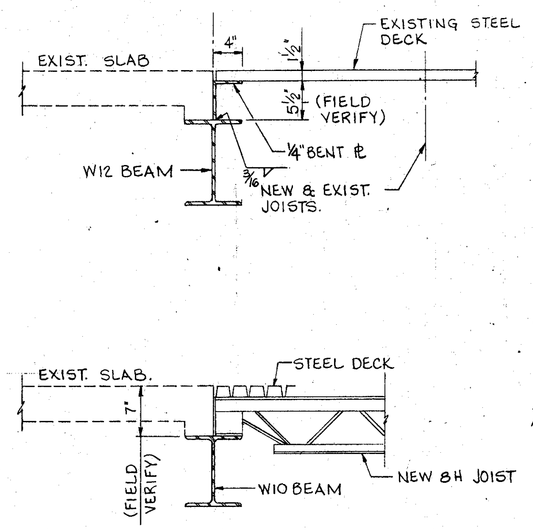


4-S9 STEEL FRAMING DETAIL
SCALE: 1"=1'-0"

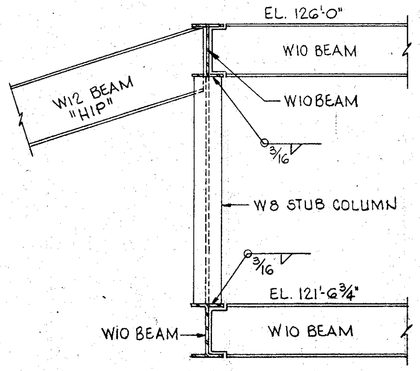


NOTE:
U.N. = UNLESS OTHERWISE NOTED.

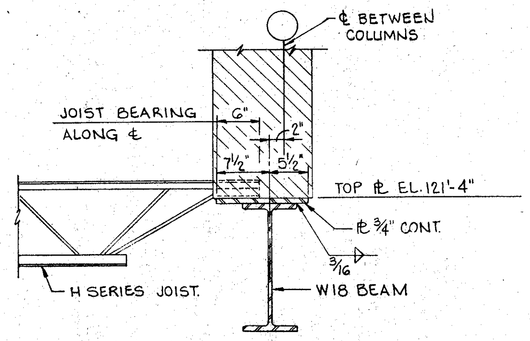
5-S9 DETAIL STANDARD COLUMN BASE PL
SCALE: NONE



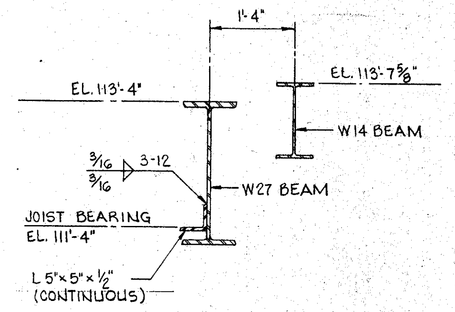
6-S9 STEEL FRAMING DETAIL
SCALE: 1"=1'-0"



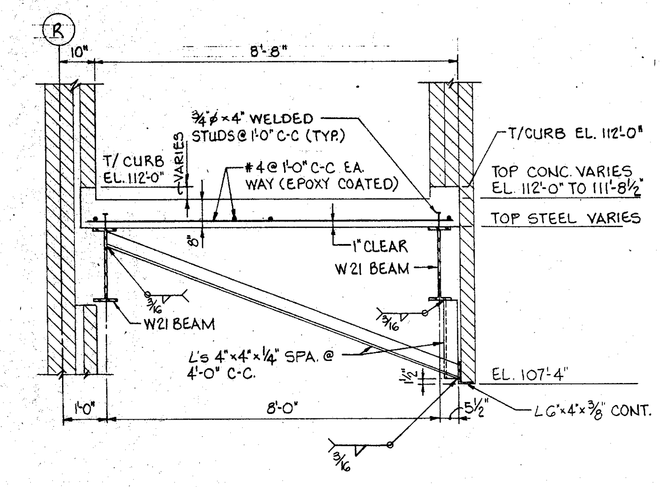
7-S9 STEEL FRAMING DETAIL
SCALE: 3/4"=1'-0"



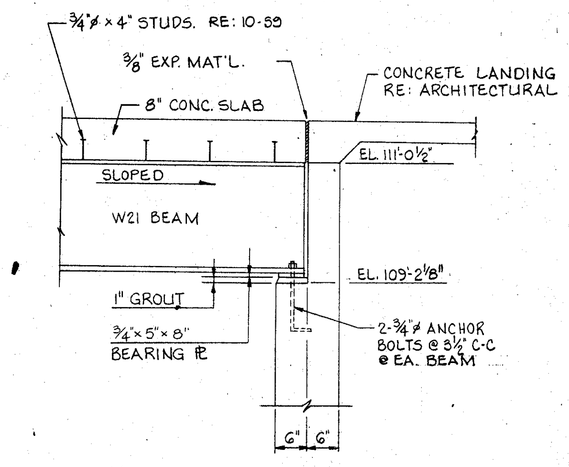
8-S9 STEEL FRAMING DETAIL
SCALE: 1"=1'-0"



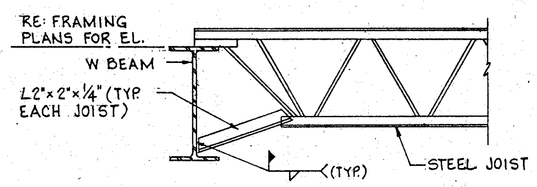
9-S9 STEEL FRAMING DETAIL
SCALE: 3/4"=1'-0"



10-S9 STEEL FRAMING DETAIL
SCALE: 1/2"=1'-0"



11-S9 BEAM BEARING DETAIL
SCALE: 3/4"=1'-0"



NOTE:
TYPICAL EACH JOIST (T9) TO (W14)
(W15) TO (Q23)

12-S9 STEEL BEAM BRACING DETAIL
SCALE: NO SCALE

STRUCTURAL DETAILS

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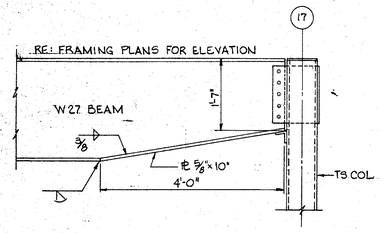
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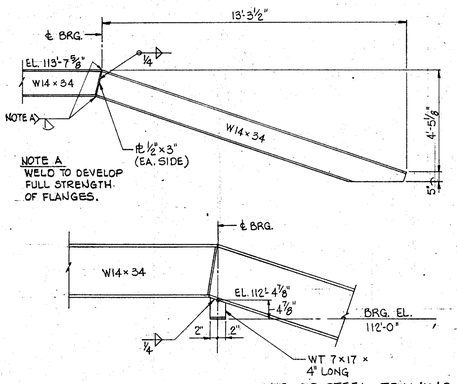
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DRAWN BY: DAO | COMM. NO.: 8455.00
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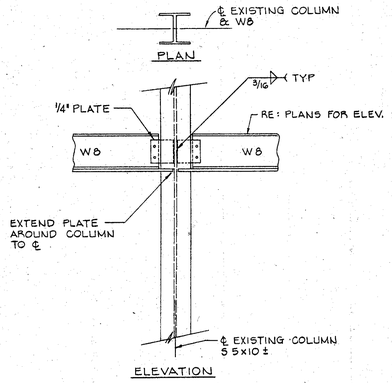
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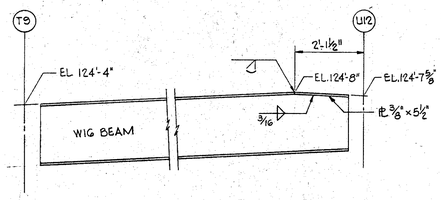


1-S10 STEEL FRAMING DETAIL
SCALE: ¾"=1'-0"

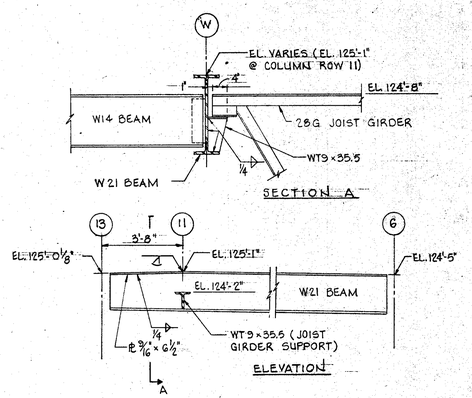
2-S10 STEEL FRAMING DETAIL
SCALE: ⅜"=1'-0"



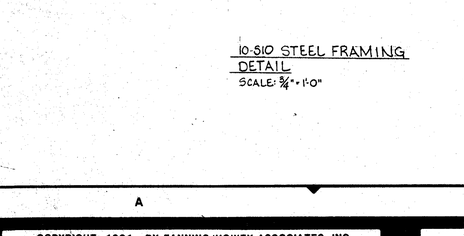
3-S10 STEEL FRAMING DETAIL
SCALE: NONE



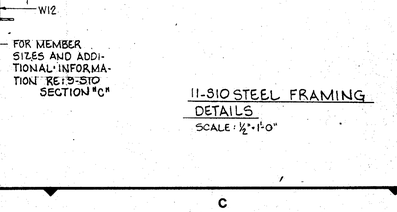
4-S10 STEEL FRAMING DETAIL
SCALE: ¾"=1'-0"



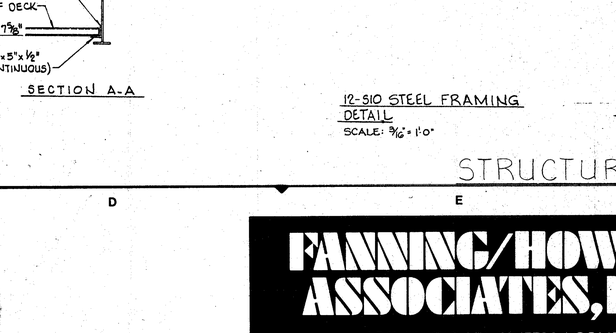
5-S10 STEEL FRAMING DETAILS
SCALE: NONE



NOTE:
JOIST, JOIST GIRDER, AND CONNECTIONS NOT SHOWN FOR CLARITY.



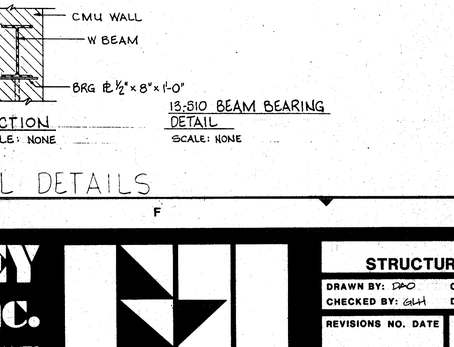
NOTE:
JOIST AND JOIST GIRDERS NOT SHOWN FOR CLARITY.



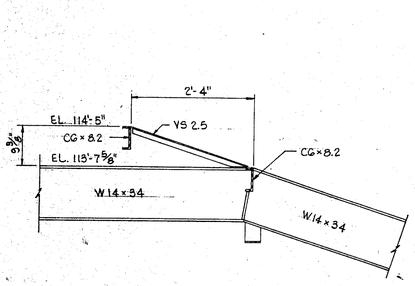
TRUSS ELEVATION

RE: 7-S8 FOR JOIST BEARING DETAIL ON "HIP"
RE: 8-S8 (1) FOR ROOF DECK SUPPORT.

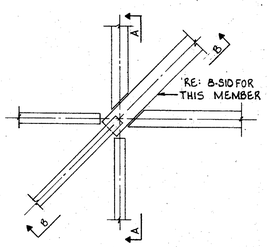
8-S10 STEEL FRAMING DETAIL
SCALE ¼"=1'-0"

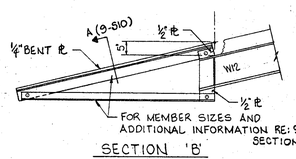


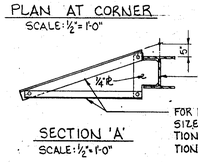
9-S10 STEEL FRAMING DETAILS
SCALE: ½"=1'-0"

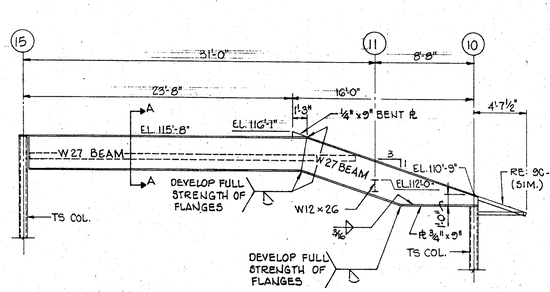


10-S10 STEEL FRAMING DETAIL
SCALE: ¾"=1'-0"

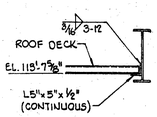




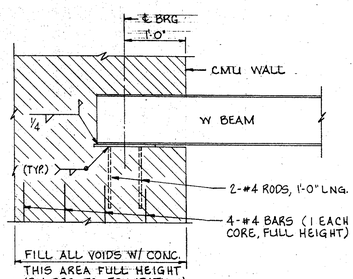




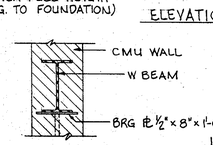
11-S10 STEEL FRAMING DETAILS
SCALE: ½"=1'-0"



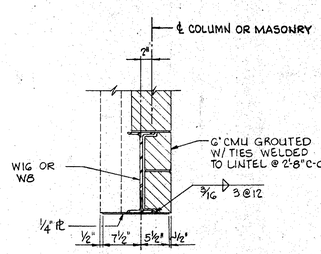
SECTION A-A



12-S10 STEEL FRAMING DETAIL
SCALE: 3/16"=1'-0"



13-S10 BEAM BEARING DETAIL
SCALE: NONE



14-S10 LINTEL DETAIL
SCALE: NONE

STRUCTURAL DETAILS

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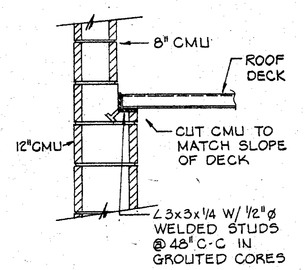
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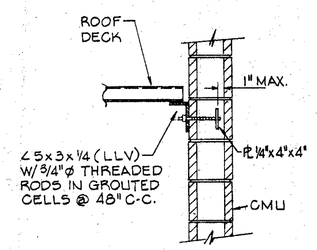
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DRAWN BY: DRO COMM. NO.: 8455.00
CHECKED BY: GLH DATE: 11 NOV. 1985
REVISIONS NO. DATE

S-10

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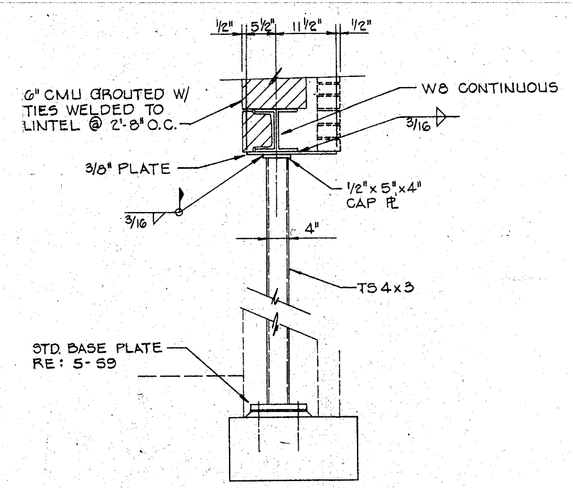


DETAIL 'A'

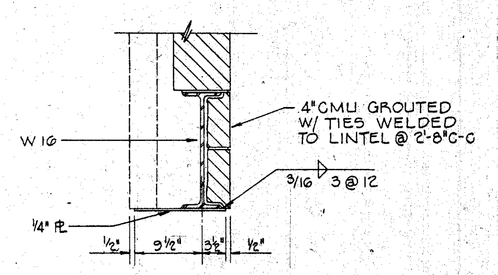


DETAIL 'B'

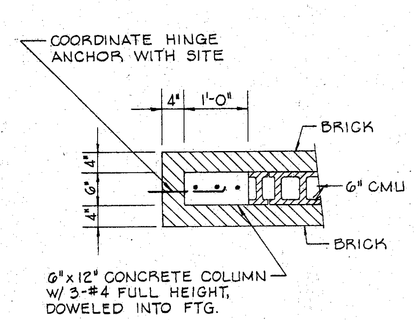
1-S11 ROOF DECK SUPPORT DETAIL
SCALE : NONE

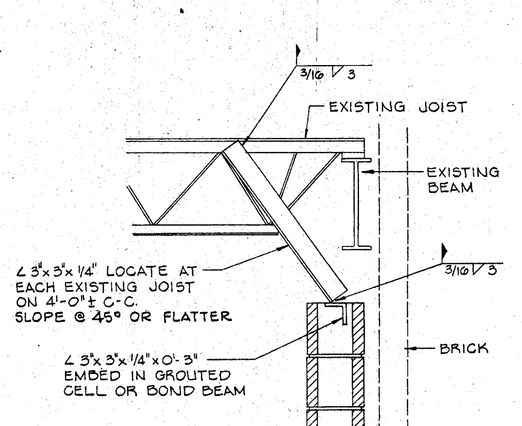


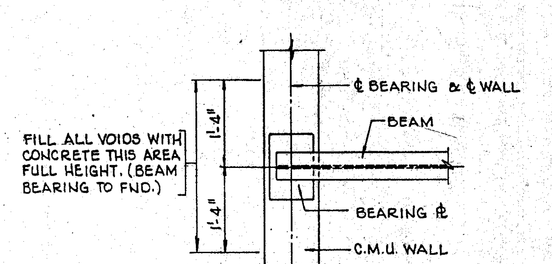
2-S11 STEEL FRAMING DETAIL
SCALE 3/4" = 1'-0"



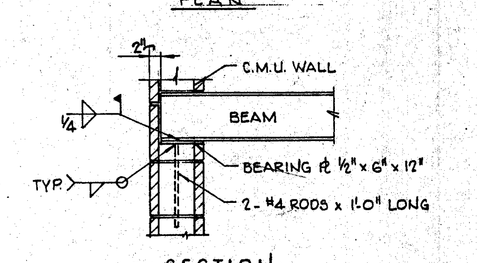
3-S11 LINTEL DETAIL
SCALE: 3/4" = 1'-0"







PLAN

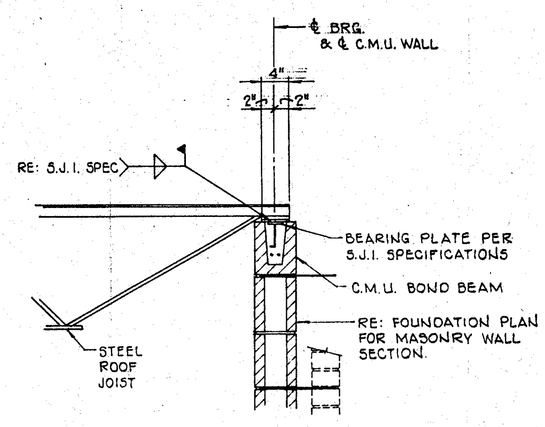


SECTION

6-S11 BEAM BEARING DETAIL
SCALE: NONE

4-S11 CONCRETE COLUMN DETAIL
SCALE : 3/4" = 1'-0"

5-S11 MASONRY BRACE DETAIL
SCALE: NONE



7-S11 JOIST BEARING ON MASONRY
SCALE: NONE

STRUCTURAL DETAILS

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

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DRAWN BY: DAO	COMM. NO.: 8455.00
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1 ALL REINFORCED CONCRETE MASONRY SHALL BE ASTM C90 HOLLOW LOAD BEARING (HL) NORMAL WEIGHT, WITH F'_m =1,500 PSI (ON GROSS SECTION)

2. ALL MORTAR & GROUT SHALL CONFORM TO C270 & C476 WITH F'_c = 2,500 PSI @ 28 DAYS (FOR REINFORCED AND GROUTED CONCRETE MASONRY).

3. ALL REINFORCING STEEL SHALL BE Fy = 60,000 PSI.

4. FOR VERTICAL CMU CORES REINFORCED WITH ONE BAR, CENTER BAR IN WALL.

5. FOR VERTICAL CMU CORES REINFORCED WITH TWO BARS, LOCATE BARS 2-1/2" CLEAR FROM EACH FACE OF THE CMU.

6. ALL BOND BEAMS SHALL BE CONTINUOUS AND SHALL BE FILLED WITH CONCRETE AND REINFORCED WITH 2-#5 BARS CONTINUOUSLY UNLESS OTHERWISE NOTED.

7. HORIZONTAL JOINT REINFORCING SHALL BE EXTRA HEAVY (3/16" SIDE RODS) TRUSS TYPE AND SHALL BE INSTALLED AT 16 INCH VERTICAL SPACING TYPICALLY EXCEPT AT THE FOLLOWING LOCATIONS WHERE THE SPACING SHALL BE 8" O.C.:

   a. TWO BED JOINTS ABOVE AND BELOW ALL OPENINGS

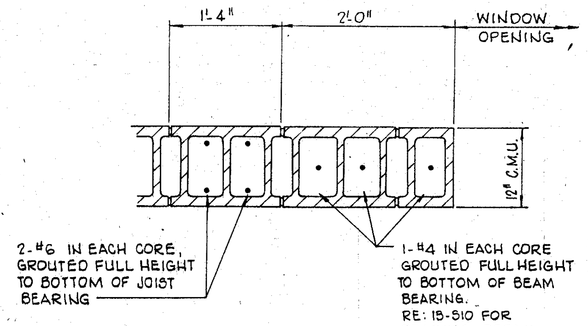
   b. IN PARAPETS ABOVE THE ROOF LINE

   c. IN ALL MASONRY WALLS BELOW FINISH GRADE.

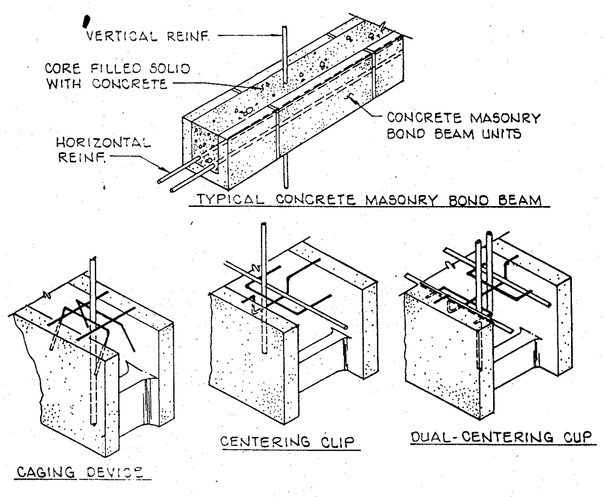
8. ALL VERTICAL REINFORCING STEEL IN MASONRY WALLS SHALL BE ALIGNED IN THE CENTER OF THE WALL AND SHALL BE HELD IN POSITION BY CAGING DEVICES AT 48" C. TO C. VERT. (RE: 2-S12)

9. PROVIDE BOND BEAMS IN ALL CMU WALLS AT EACH FLOOR LEVEL, DIRECTLY BELOW THE LEVEL AT WHICH THE STRUCTURAL MEMBERS FRAME INTO THE WALL.

MASONRY WALL NOTES

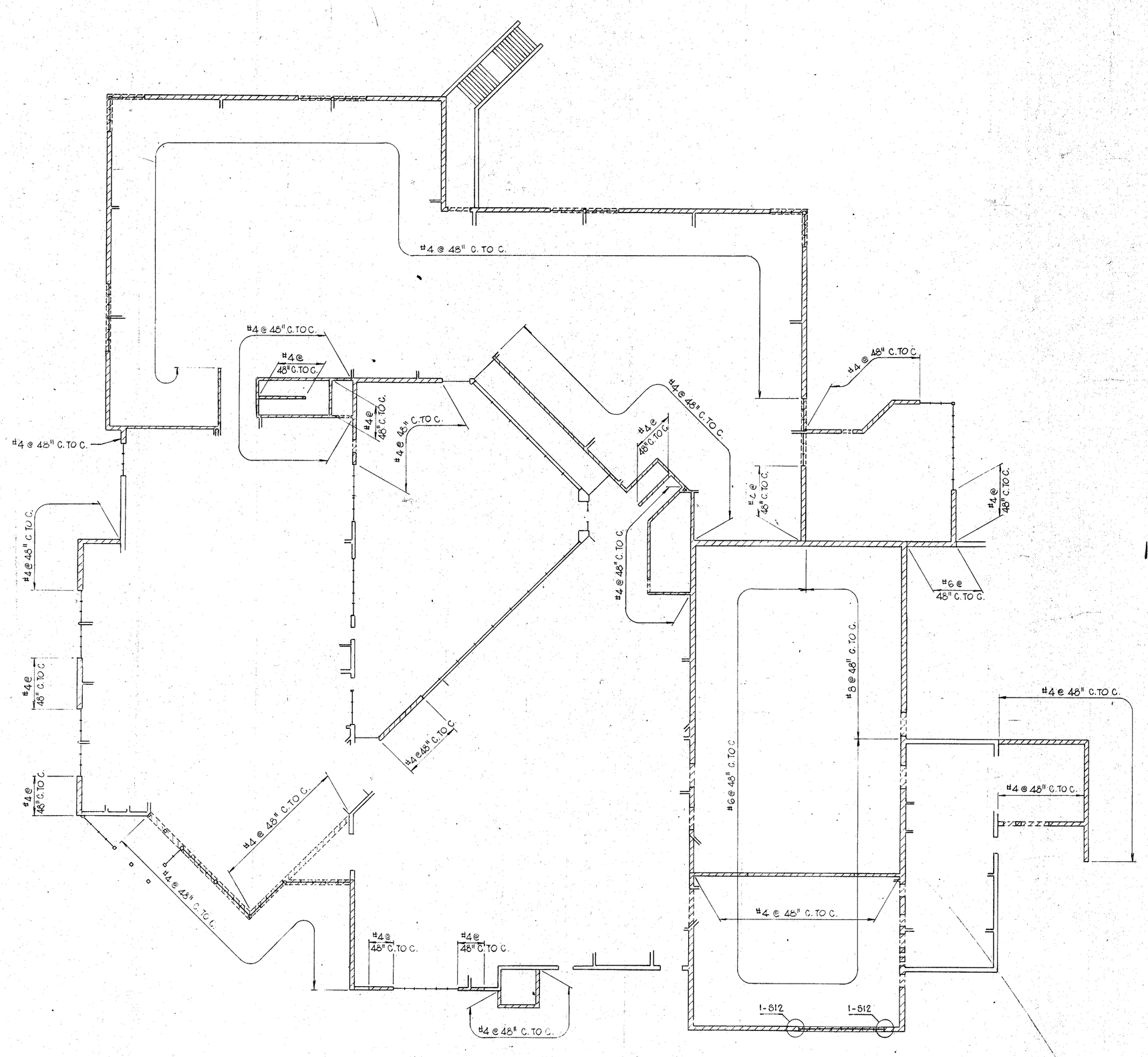


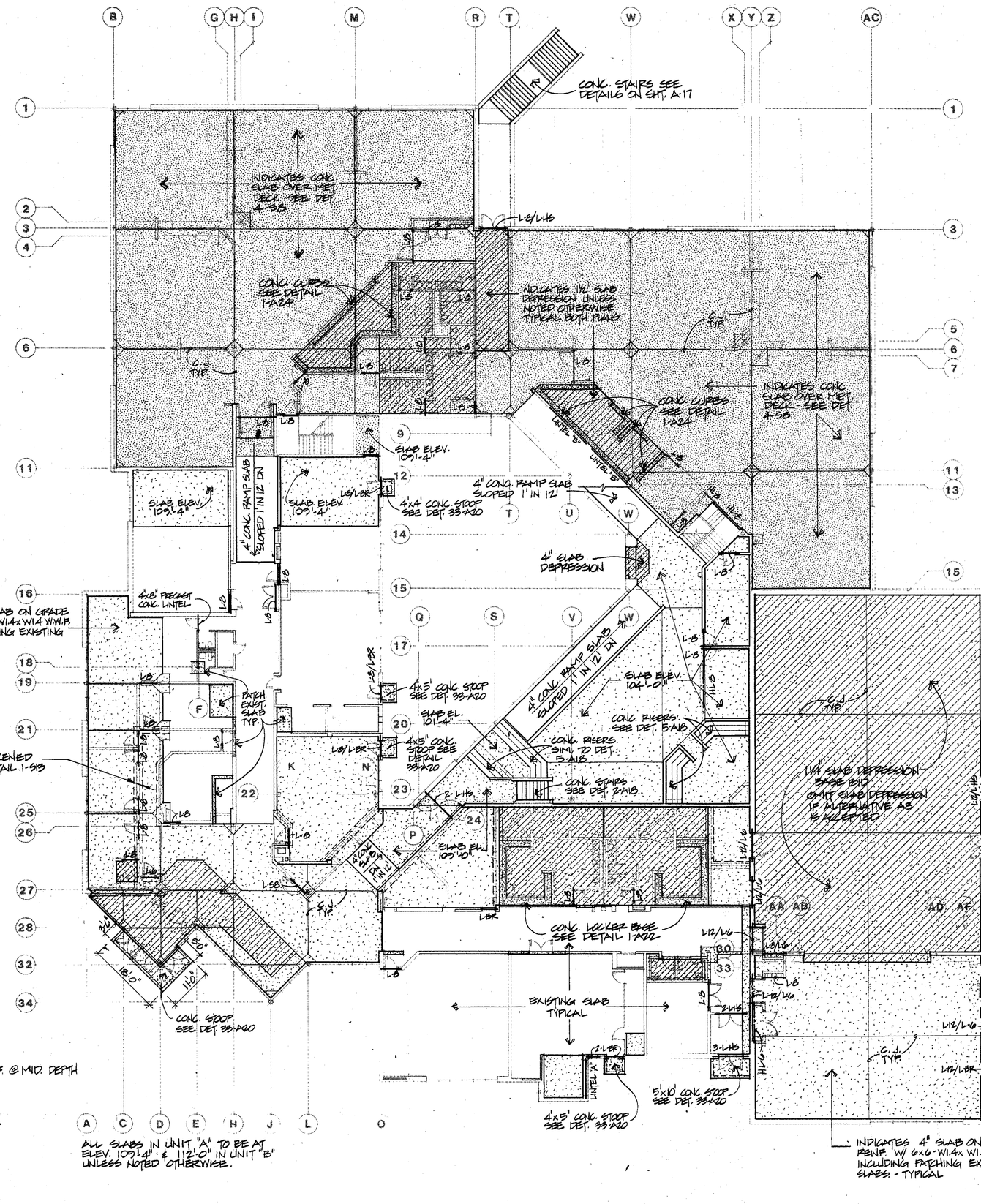
1-S12 MASONRY DETAIL
SCALE: 1" = 1'-0"



NOTE:
CENTERING AND CAGING DEVICES SHALL BE FORMED FROM #9 HARD STEEL WIRE, SPOT WELDED AND GALVANIZED.

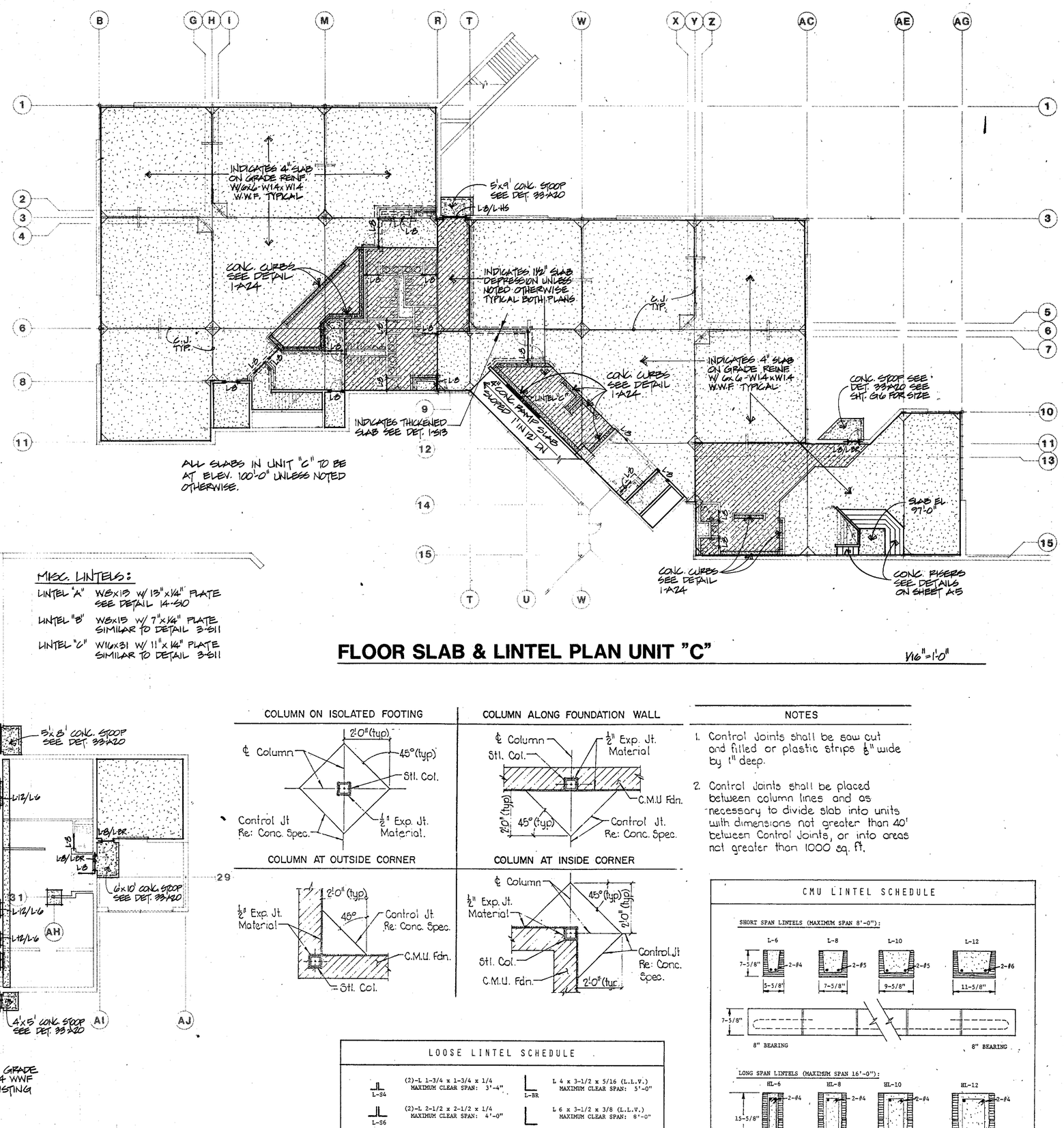
2-S12 REINFORCED MASONRY DETAILS
NO SCALE


#4 @ 48" C. TO C.
#4 @ 48" C.TO C.
#4 @ 48" C.TO C.
#4 @ 48" C.



FLOOR SLAB & LINTEL PLAN UNIT "A" & UNIT "B"

1/16"=1'-0"



FLOOR SLAB & LINTEL PLAN UNIT "C"

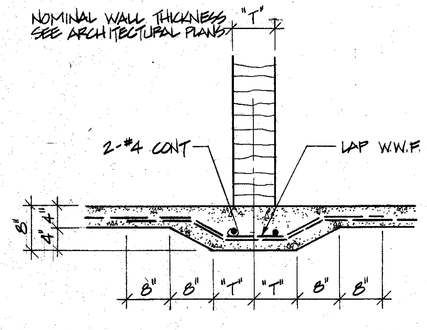
1/16"=1'-0"

MISC. LINTELS:

LINTEL "A" W8X13 W/ 13"x1/4" PLATE SEE DETAIL 14-S10

LINTEL "B" W8X13 W/ 7"x1/4" PLATE SIMILAR TO DETAIL 3-S11

LINTEL "C" W10X31 W/ 11"x 1/2" PLATE SIMILAR TO DETAIL 3-S11



THICKENED SLAB DETAIL 1-S13

3/4"=1'-0"

NOTES

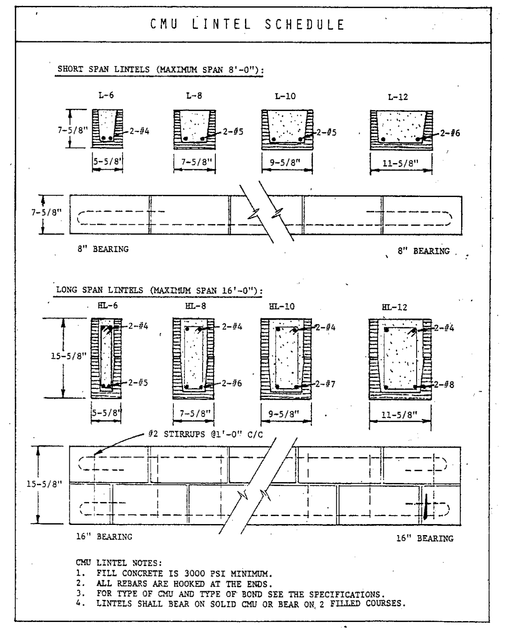
1. Control Joints shall be saw cut and filled or plastic strips ⅛" wide by 1" deep.
2. Control Joints shall be placed between column lines and as necessary to divide slab into units with dimensions not greater than 40' between Control Joints, or into areas not greater than 1000 sq. ft.

LOOSE LINTEL SCHEDULE

L-S6	(2)-L 1-3/4 x 1-3/4 x 1/4 MAXIMUM CLEAR SPAN: 3'-4"	L-S5	L 4 x 3-1/2 x 5/16 (L.L.V.) MAXIMUM CLEAR SPAN: 5'-0"
L-S6	(2)-L 2-1/2 x 2-1/2 x 1/4 MAXIMUM CLEAR SPAN: 4'-0"	L-RS5	L 6 x 3-1/2 x 3/8 (L.L.V.) MAXIMUM CLEAR SPAN: 6'-0"
L-S8	(2)-L 3-1/2 x 3-1/2 x 1/4 MAXIMUM CLEAR SPAN: 4'-4"	L-RS8	(2)-L 5 x 3-1/2 x 3/8 (L.L.V.) MAXIMUM CLEAR SPAN: 6'-4"
L-S10	(2)-L 4 x 4 x 1/4 MAXIMUM CLEAR SPAN: 4'-8"	L-RS10	(2)-L 6 x 4 x 3/8 (L.L.V.) MAXIMUM CLEAR SPAN: 7'-4"
L-S12	(2)-L5 x 3-1/2 x 5/16 (L.L.O.) MAXIMUM CLEAR SPAN: 5'-0"	L-RS12	(2)-L 5 x 5 x 3/8 (L.L.V.) MAXIMUM CLEAR SPAN: 8'-4"
	6" BEARING EACH END		8" BEARING EACH END

LINTEL NOTES
1. LINTELS SHALL BEAR ON SOLID MASONRY OR ON TWO CMU COURSES FULLY GROUTED WITH TYPE S MORTAR.
2. FURNISH AND INSTALL ALL LOOSE LINTELS REQUIRED FOR ALL OPENINGS IN MASONRY, INCLUDING MECHANICAL AND ELECTRICAL WORK, WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT.

CMU LINTEL SCHEDULE



CMU LINTEL NOTES:
1. FILL CONCRETE IS 3000 PSI MINIMUM.
2. ALL REBARS ARE HOOKED AT THE ENDS.
3. FOR TYPE OF CMU AND TYPE OF BOND SEE THE SPECIFICATIONS.
4. LINTELS SHALL BEAR ON SOLID CMU OR BEAR ON 2 FILLED COURSES.

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MISHAWAKA, INDIANA

KEY PLAN

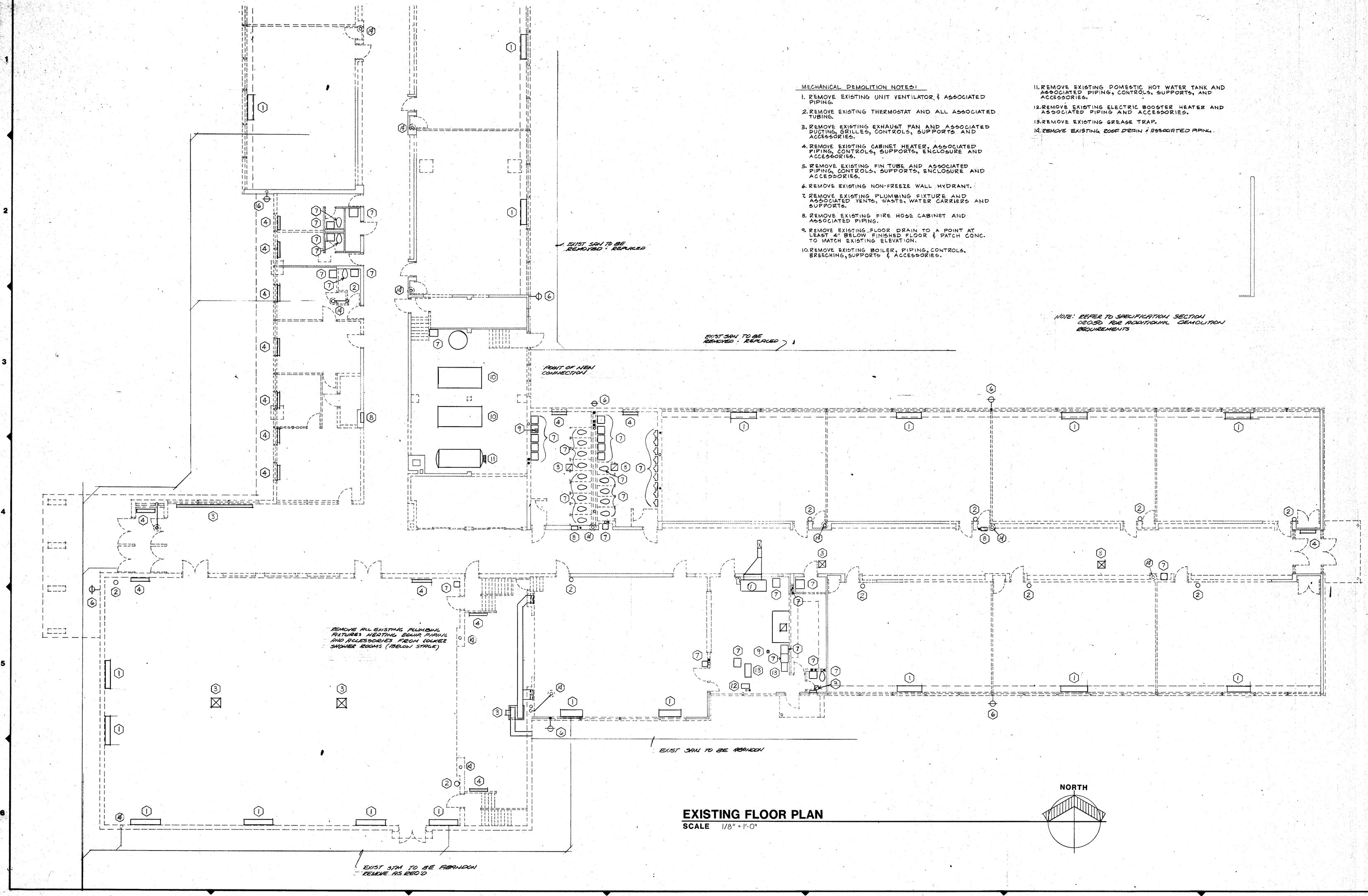
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FLOOR SLAB & LINTEL PLAN

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MECHANICAL DEMOLITION NOTES:

1. REMOVE EXISTING UNIT VENTILATOR & ASSOCIATED PIPING.
2. REMOVE EXISTING THERMOSTAT AND ALL ASSOCIATED TUBING.
3. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTING, GRILLES, CONTROLS, SUPPORTS AND ACCESSORIES.
4. REMOVE EXISTING CABINET HEATER, ASSOCIATED PIPING, CONTROLS, SUPPORTS, ENCLOSURE AND ACCESSORIES.
5. REMOVE EXISTING FIN TUBE AND ASSOCIATED PIPING, CONTROLS, SUPPORTS, ENCLOSURE AND ACCESSORIES.
6. REMOVE EXISTING NON-FREEZE WALL HYDRANT.
7. REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED VENTS, WASTE, WATER CARRIERS AND SUPPORTS.
8. REMOVE EXISTING FIRE HOSE CABINET AND ASSOCIATED PIPING.
9. REMOVE EXISTING FLOOR DRAIN TO A POINT AT LEAST 4" BELOW FINISHED FLOOR & PATCH CONC. TO MATCH EXISTING ELEVATION.
10. REMOVE EXISTING BOILER, PIPING, CONTROLS, BREECHING, SUPPORTS & ACCESSORIES.
11. REMOVE EXISTING DOMESTIC HOT WATER TANK AND ASSOCIATED PIPING, CONTROLS, SUPPORTS, AND ACCESSORIES.
12. REMOVE EXISTING ELECTRIC BOOSTER HEATER AND ASSOCIATED PIPING AND ACCESSORIES.
13. REMOVE EXISTING GREASE TRAP.
14. REMOVE EXISTING ROOF DRAIN & ASSOCIATED PIPING.

NOTE: REFER TO SPECIFICATION SECTION 02050 FOR ADDITIONAL DEMOLITION REQUIREMENTS

EXISTING FLOOR PLAN

SCALE 1/8" = 1'-0"

NORTH

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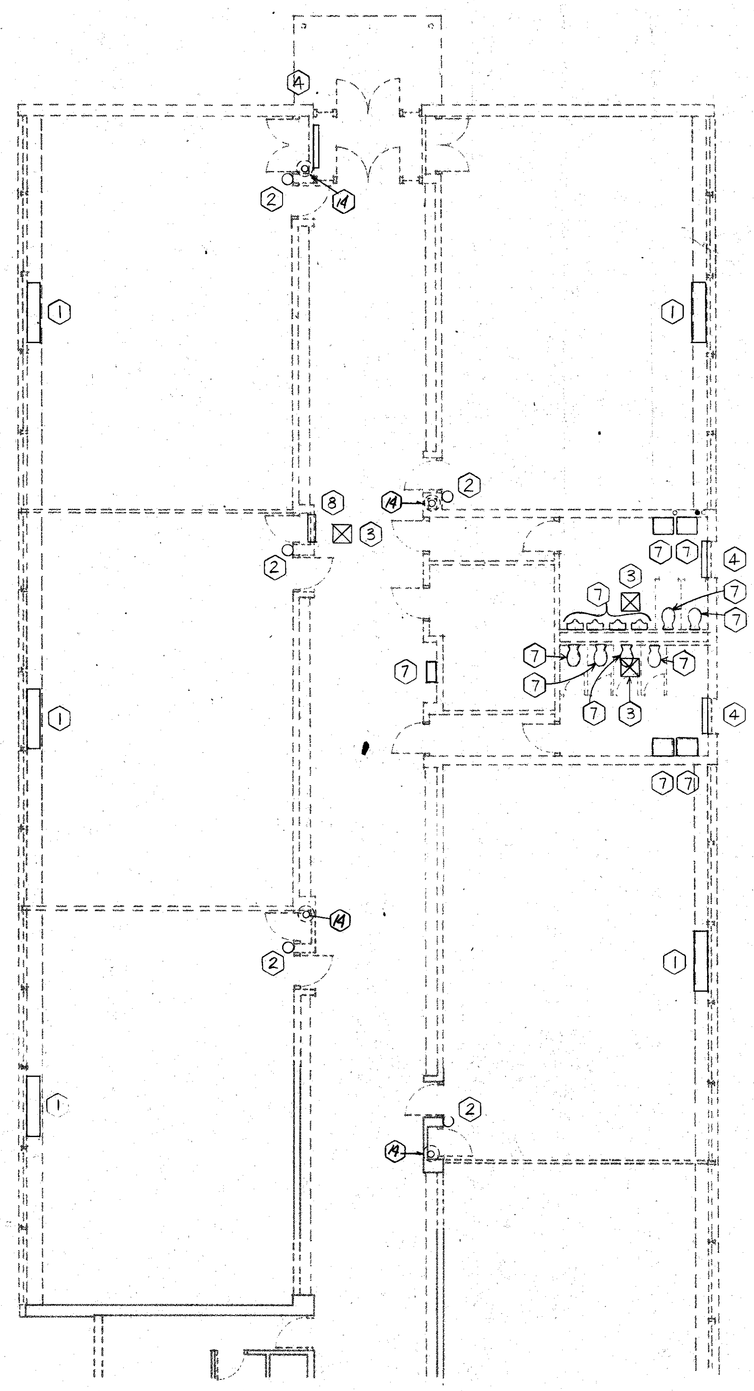
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MECH. DEMOLITION AREA "A"

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MD-1

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EXISTING FLOOR PLAN

SCALE 1/8" = 1'-0"

NORTH

REFER TO DRAWING MD-1 FOR DEMOLITION NOTES.

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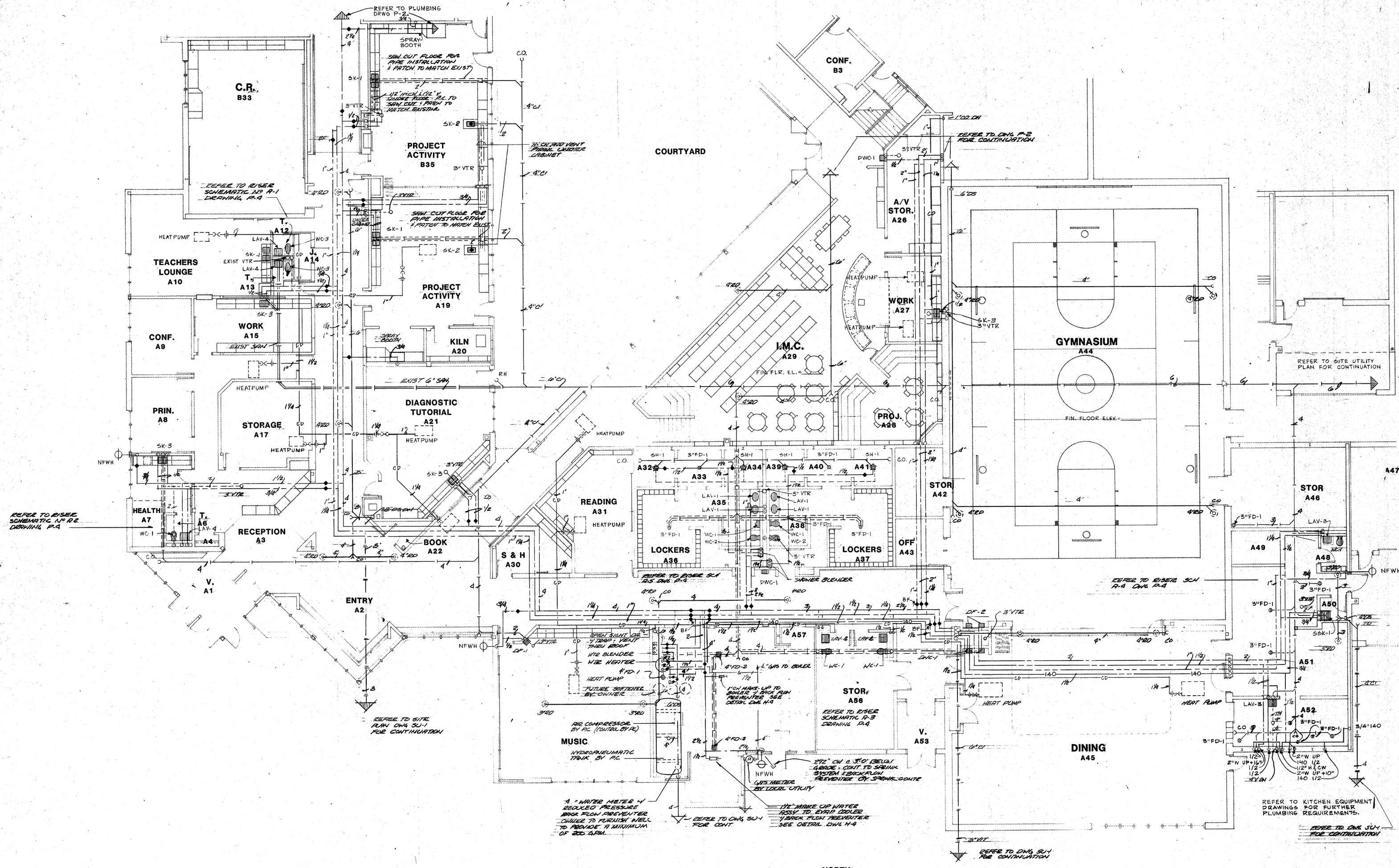
MECH. DEMOLITION AREA "B"

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CHECKED BY: CAM DATE: 11 NOV. 1985

REVISIONS NO. DATE

MD-2

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FLOOR PLAN "A"

SCALE 1/8"=1'-0"

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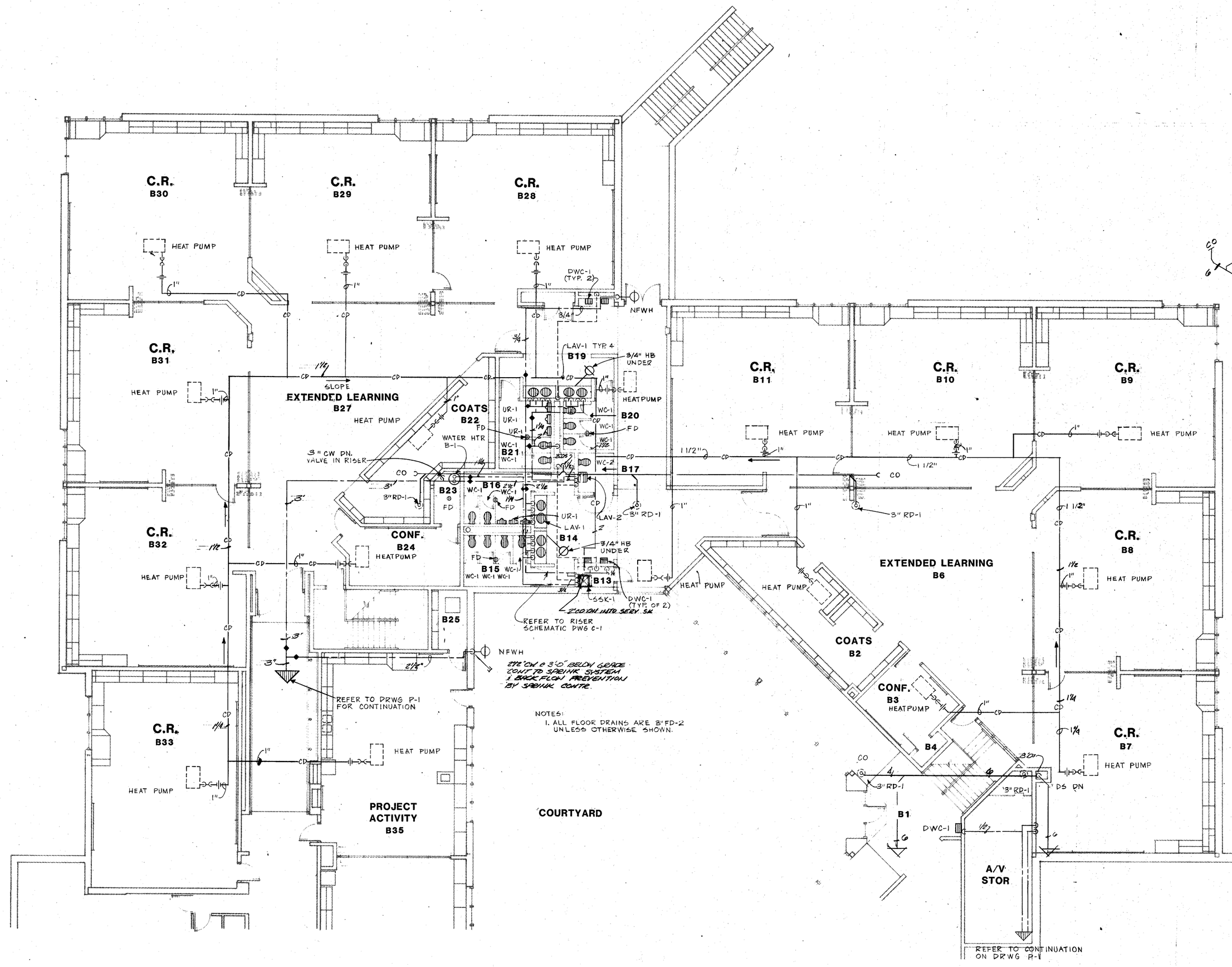
AREA "A" PLUMBING

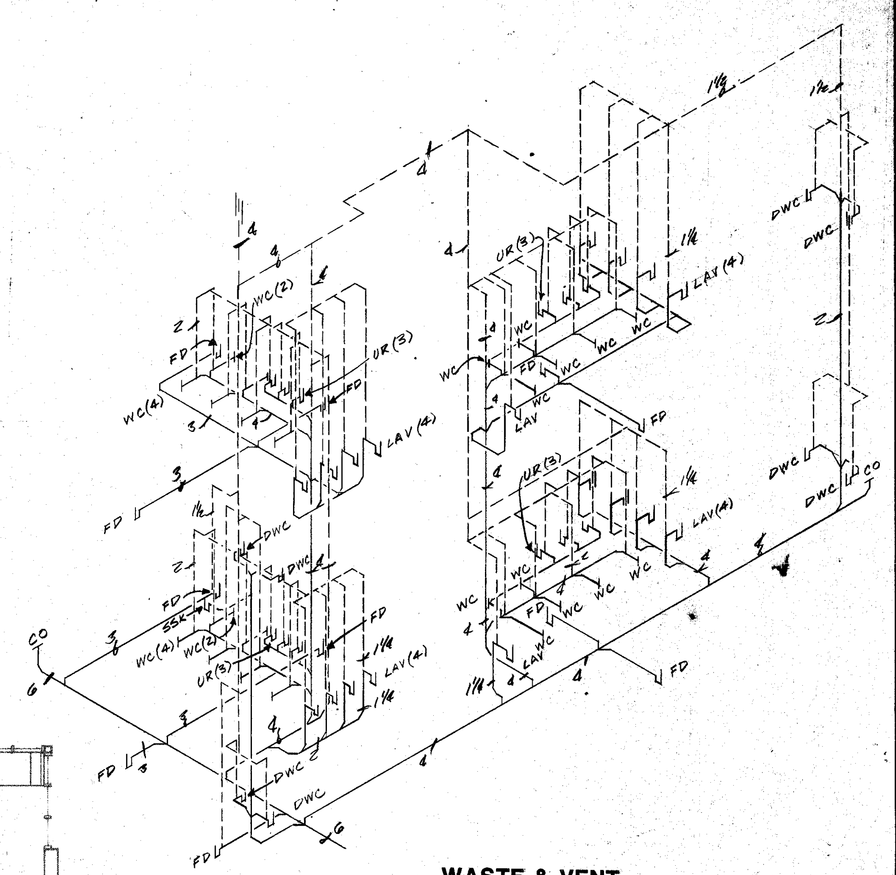
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CHECKED BY: C.A.M.° DATE: 11 NOV. 1985

REVISIONS NO. DATE

P-1

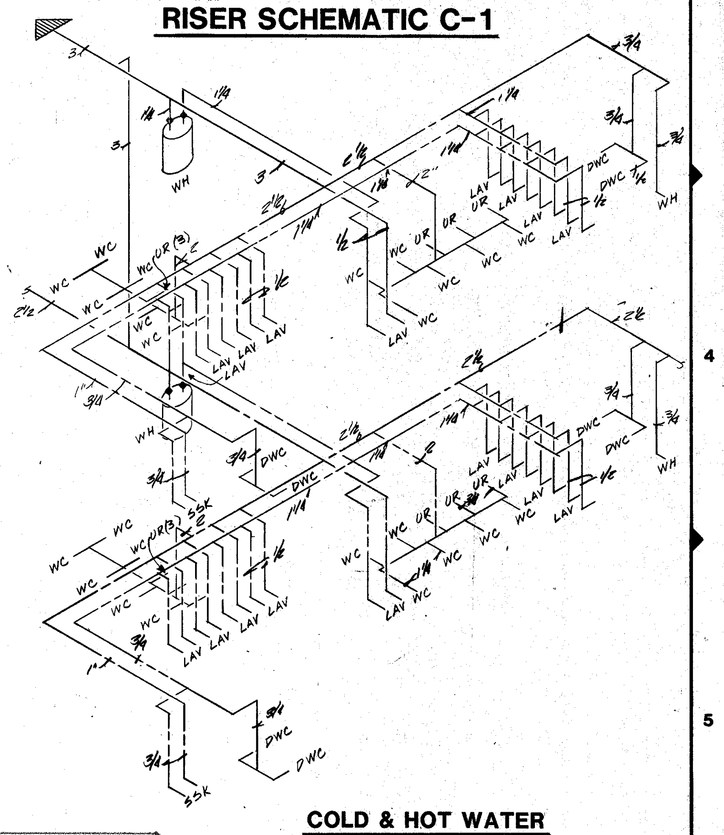
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WASTE & VENT

RISER SCHEMATIC C-1



COLD & HOT WATER

RISER SCHEMATIC C-1

FLOOR PLAN AREA "B"

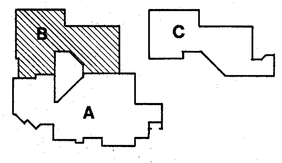
SCALE 1/8" = 1'-0"

NORTH

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ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA



KEY PLAN

FANNING/HOWEY ASSOCIATES, Inc.
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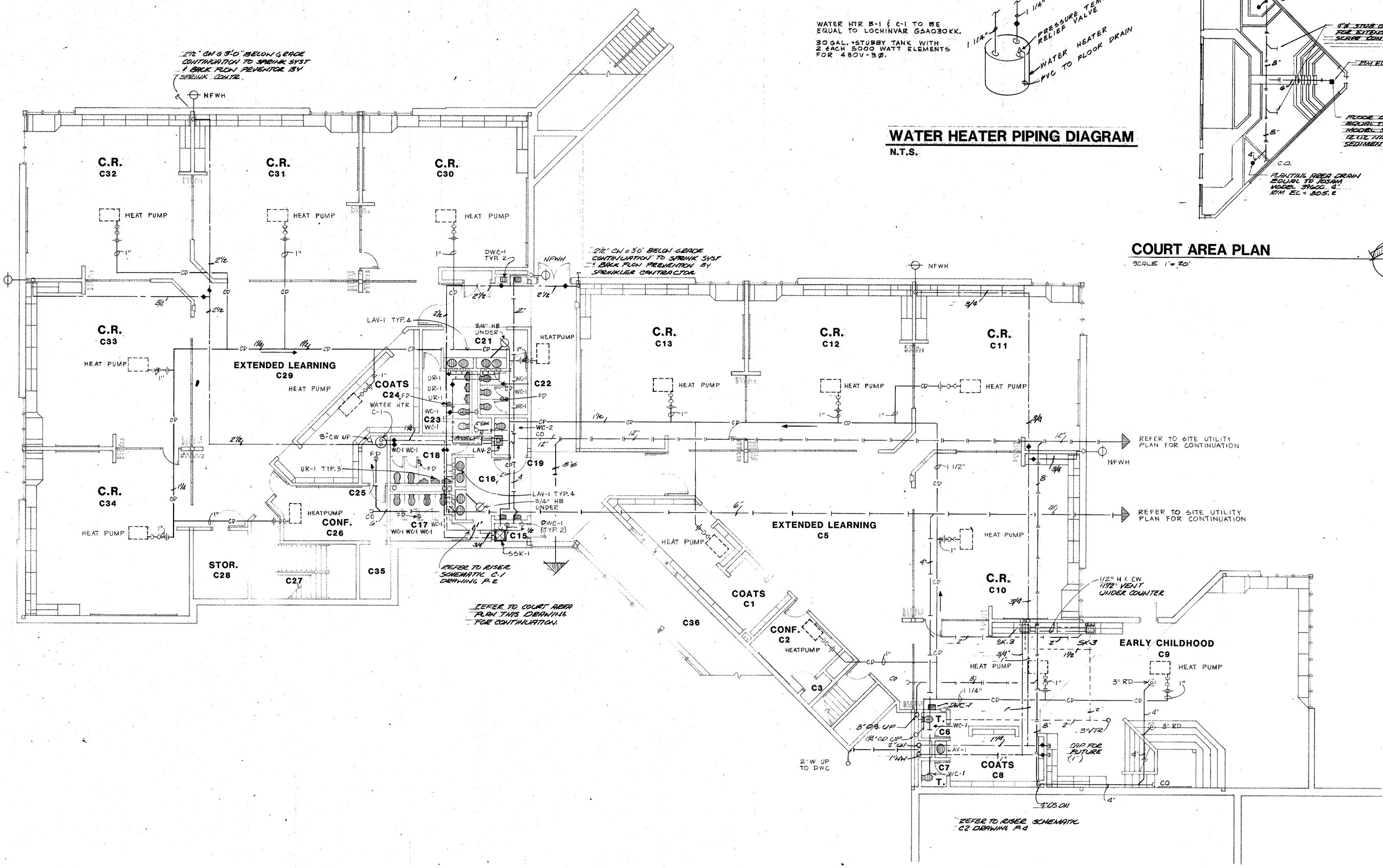
AREA "B" PLUMBING

DRAWN BY: M.L.S. COMM. NO.: 8455.00
CHECKED BY: C.A.M^c. DATE: 11 NOV. 1985

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P-2

ELM ROAD 8455.00



FLOOR PLAN "C"

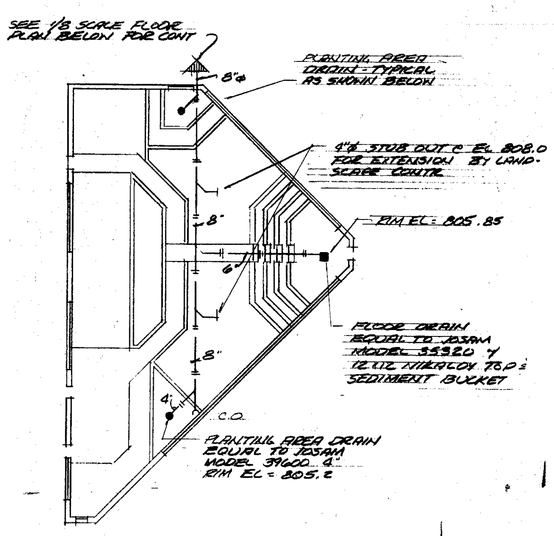
SCALE 1/8" = 1'-0"

WATER HTR B-1 & C-1 TO BE EQUAL TO LOCHINVAR GSA030KK.

30 GAL. STUBBY TANK WITH 2 EACH 5000 WATT ELEMENTS FOR 480V-3Ø.

WATER HEATER PIPING DIAGRAM

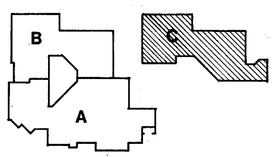
N.T.S.



COURT AREA PLAN

SCALE 1" = 20'

KEY PLAN



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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

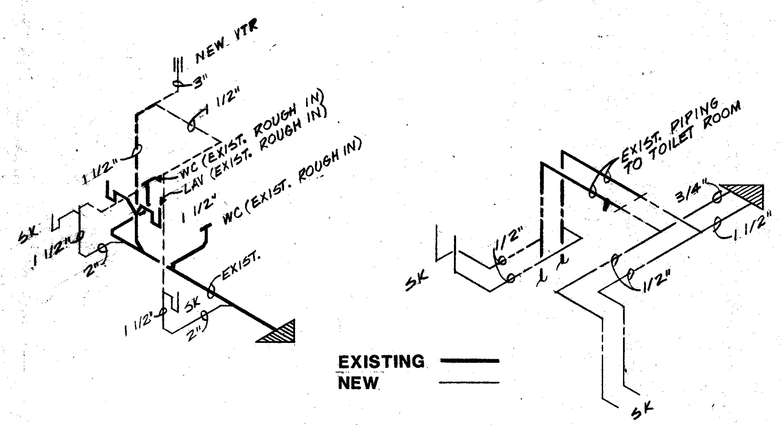
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AREA "C" PLUMBING

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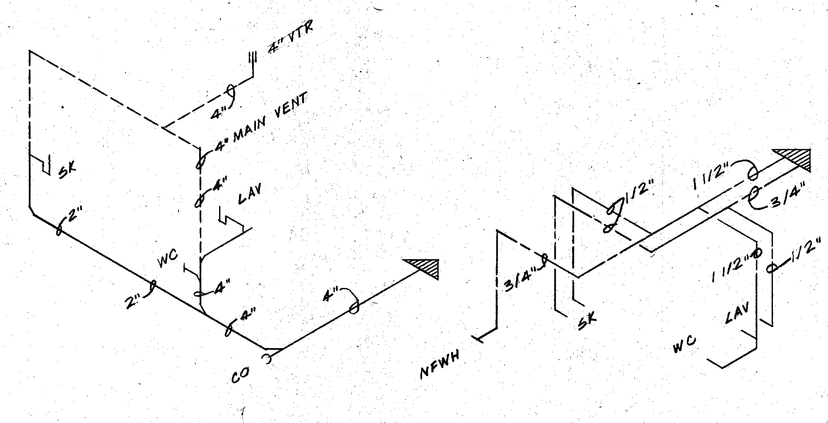
P-3

ELM ROAD 8455.00



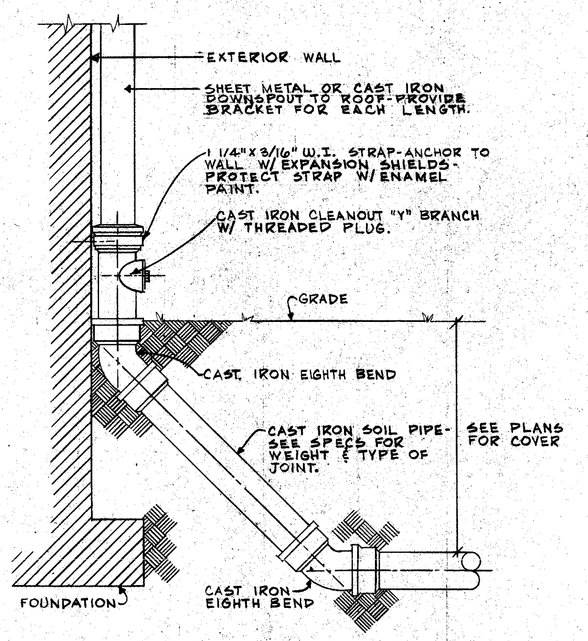
WASTE & VENT **HOT & COLD WATER**

RISER SCHEMATIC A-1



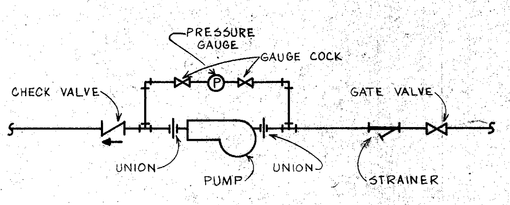
WASTE & VENT **HOT & COLD WATER**

RISER SCHEMATIC A-2



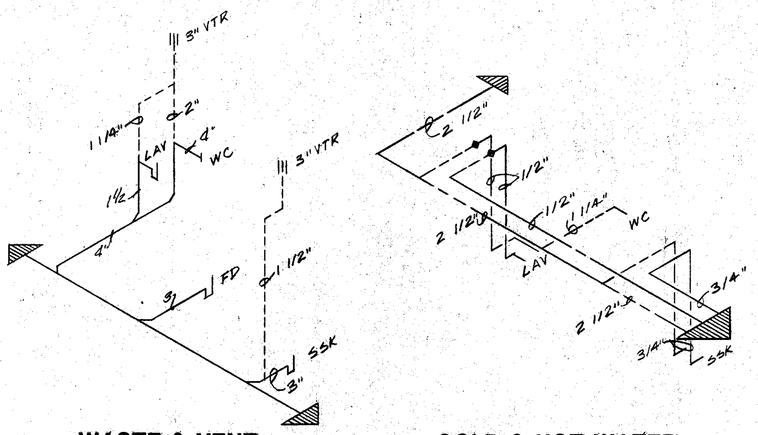
DOWNSPOUT SHOE

N.T.S.



IN-LINE PUMP PIPING

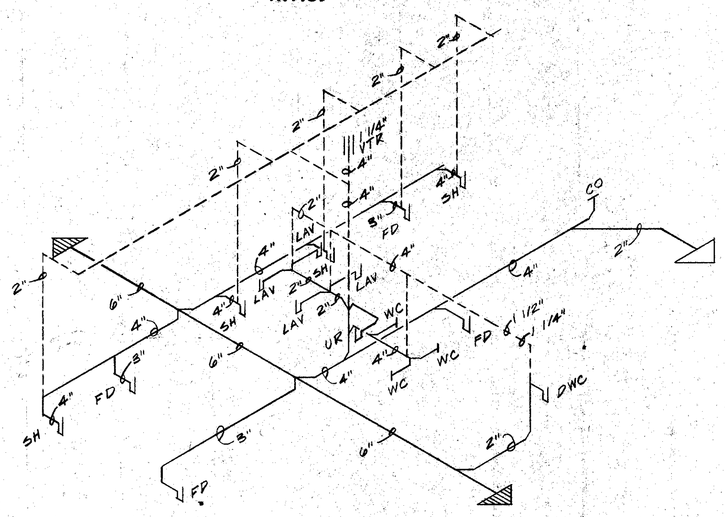
N.T.S.



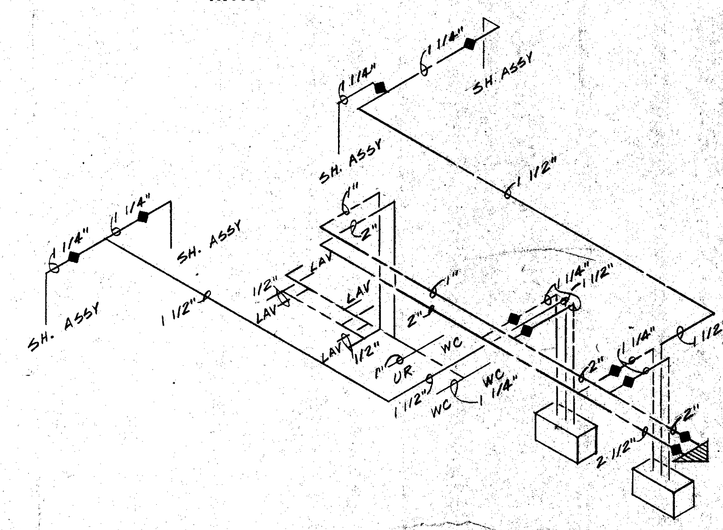
WASTE & VENT **HOT & COLD WATER** **WASTE & VENT** **COLD & HOT WATER**

RISER SCHEMATIC A-3

RISER SCHEMATIC A-4

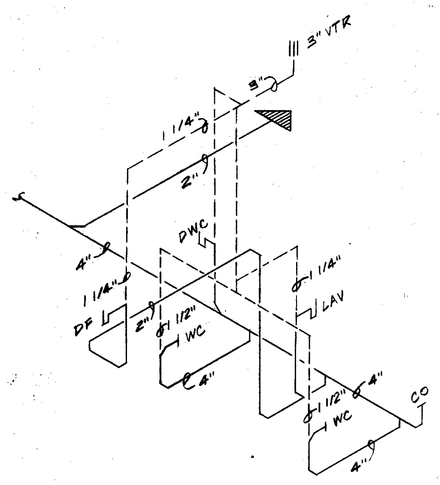


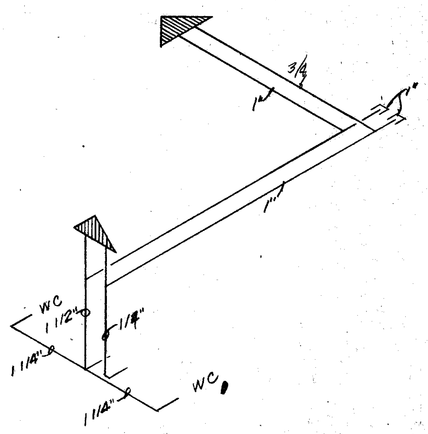
WASTE & VENT



COLD & HOT WATER

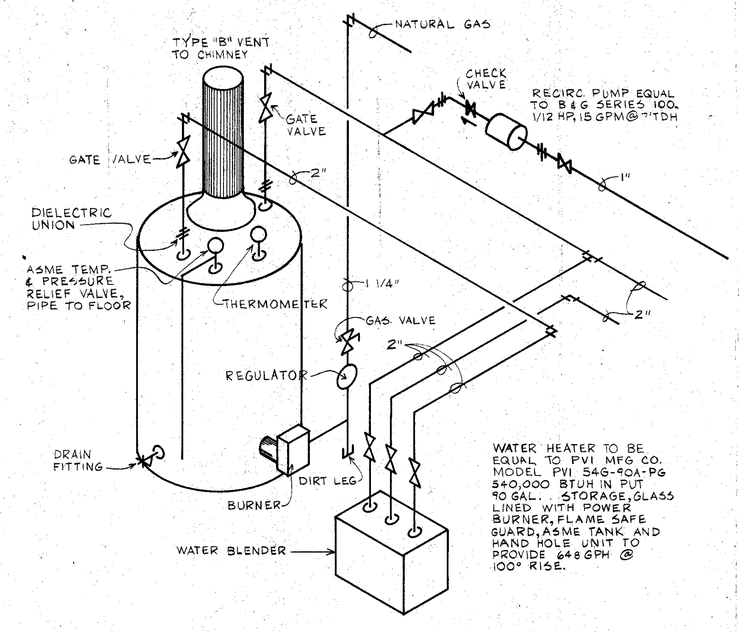
RISER SCHEMATIC A-5





WASTE &VENT **HOT & COLD WATER**

RISER SCHEMATIC C-2



WATER HEATING PIPING SCHEMATIC

N.T.S.

PLUMBING FIXTURE SCHEDULE

FIXTURE MARK	ITEM	MFGR	MODEL	TYPE	MATER	COLOR	TRIM ITEM	TRIM MFGR	TRIM MODEL	ACCESSORIES ITEM	ACCESSORIES MFGR	ACCESSORIES MODEL	COMMENTS
WC-1	WTR CLO	AM STD	2477.016	WALL HUNG	VIT. CHINA	WHITE	F. VALVE	SLOAN	110-3	SEAT	OLDBURY	5381.112	
WC-2	WTR CLO	AM STD	2477.016	WALL HUNG	VIT. CHINA	WHITE	F. VALVE	SLOAN	110-3	SEAT	CHURCH	5381.112	HTGT = 20"
LAV-1	LAVATORY	AM STD	0476.028	SELF RIM	"	"	F. VALVE	SLOAN	186				
LAV-2	"	"	0355.012	WALL HUNG	"	"	FAUCET	AM. STD	2103.886				
LAV-3	"	"	0355.012	WALL HUNG	"	"	"	"	2103.900				
LAV-4	LAVATORY	AM STD	0355.012	WALL HUNG	VIT CHINA	"	FAUCET	AM. STD	2103.103				
SSK-1	SERVICE SK	FOWLER	MSB 3424	FL. MTD	MOLDED	OFF WHITE	FAUCET	AM. STD	8344.111	HOSE ASSY	FOWLER	B32-104	
DWC-1	WATER CLR	ELKAY	EHS	WALL HUNG	VINYL	BY FABCO							
DF-1	DRINKING FTN	AM STD	B370.12	WALK. MTD	VIT CHINA	WHITE							
DF-2	" / COMP	ELKAY	EDFC 8/4	SEMI RECS	STAINLESS	—							
SK-1	SINK	ELKAY	LK 2431	SELF RIM	STAINLESS	—	FAUCET	ELKAY	LK 2430	STRAINER	ELKAY	LK-35 (2ea)	
SK-2	SINK	ELKAY	LR 2219	SELF RIM	STAINLESS	—	FAUCET	ELKAY	LK 2462	STRAINER	ELKAY	LK-35	W/ JOSAM 4" GUARD, PLASTIC TRAP
SK-3	SINK	ELKAY	LR 2219	SELF RIM	STAINLESS	—	FAUCET	ELKAY	LK 2462	STRAINER	ELKAY	LK-35	
WC-3	WTR CLO	AM STD	2221.016	FL. MTD	VIT CHINA	WHITE	F. VALVE	SLOAN	110-3	SEAT	CHURCH	5321.112	
SH-1	SHOWER	BRADLEY	SCB	CEILING	STAINLESS	—	FAUCET	BRADLEY	TE	SH HEAD	BRADLEY	941	HD. HEIGHT = 6'-0" (2ea)
	SHOWER TO HOME TELE			SCOPE:			SCHEDULE:		2.5 GPM REGULATOR				3/4" GUARD

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PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

FANNING/HOWEY ASSOCIATES, Inc.
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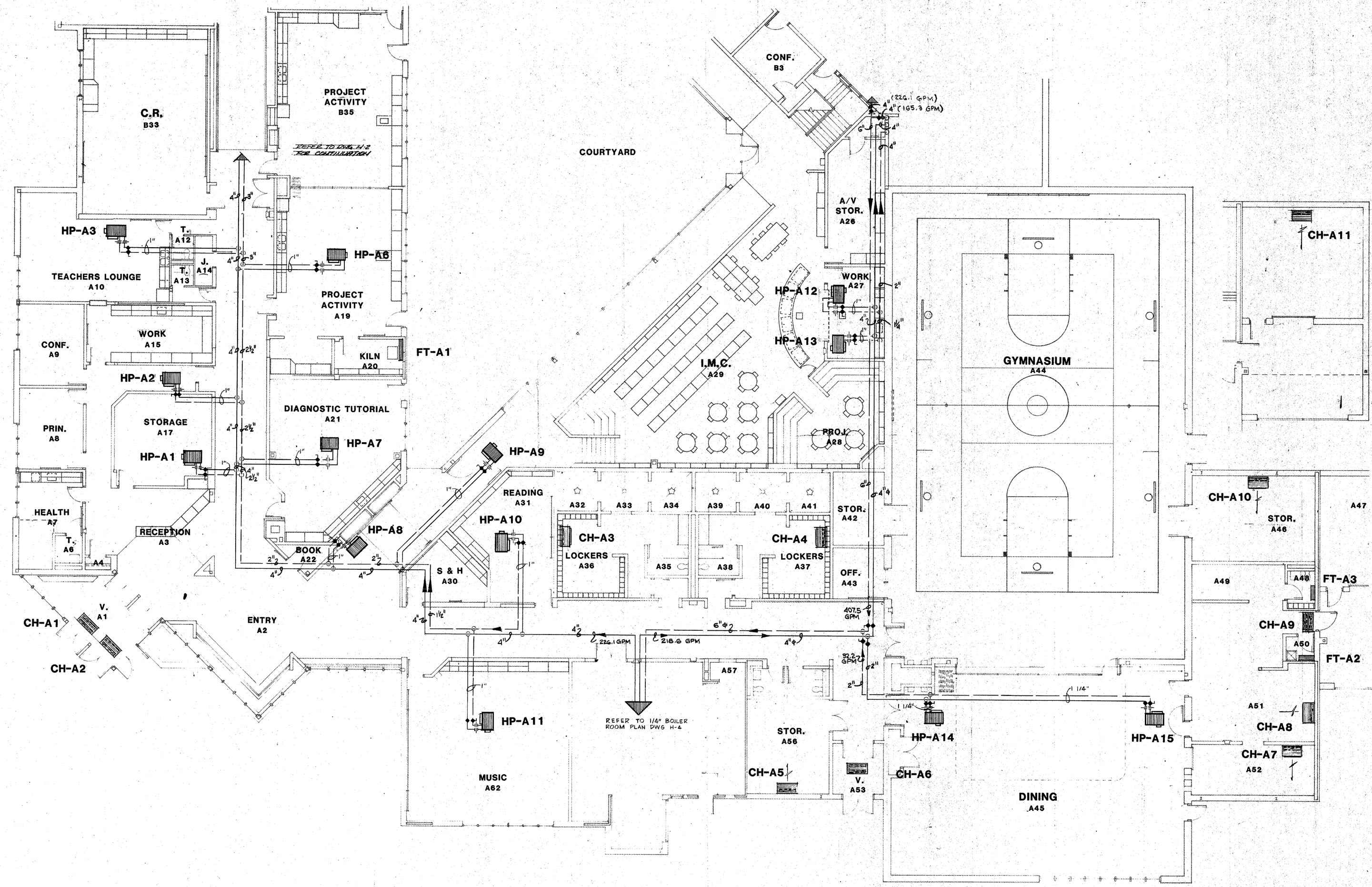
DETAILS AND SCHEDULES

DRAWN BY: M.L.S. COMM. NO.: 8455.00
CHECKED BY: C.A.M.° DATE: 11 NOV. 1985

REVISIONS NO. DATE

P-4

ELM ROAD 8455.00



NORTH

HEATING FLOOR PLAN AREA "A"

SCALE 1/8"=1'-0"

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ADDITIONS & ALTERATIONS TO THE
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MISHAWAKA, INDIANA

KEY PLAN

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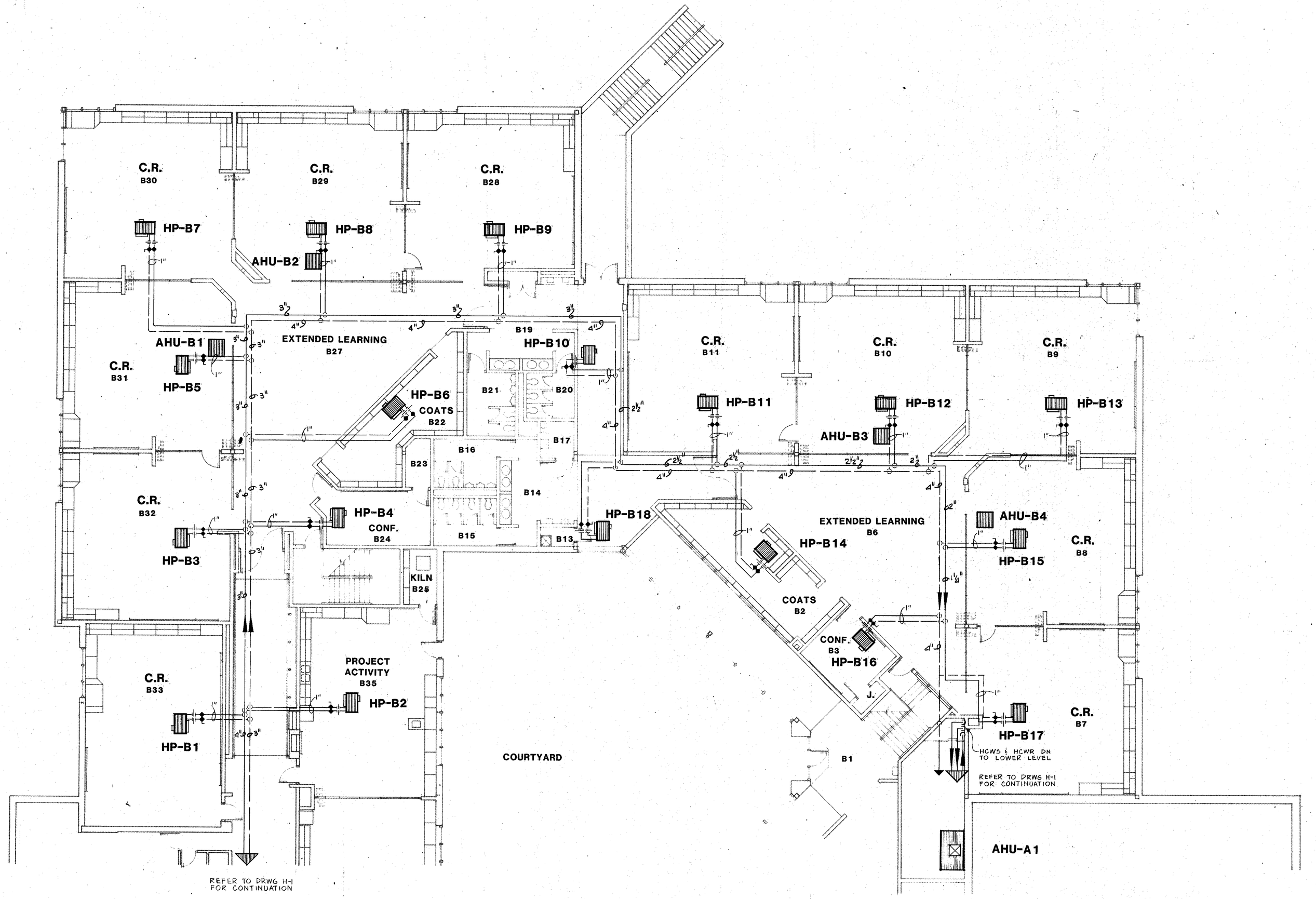
HEATING AREA "A"

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NORTH

FLOOR PLAN AREA "B"

SCALE 1/8"=1'-0"

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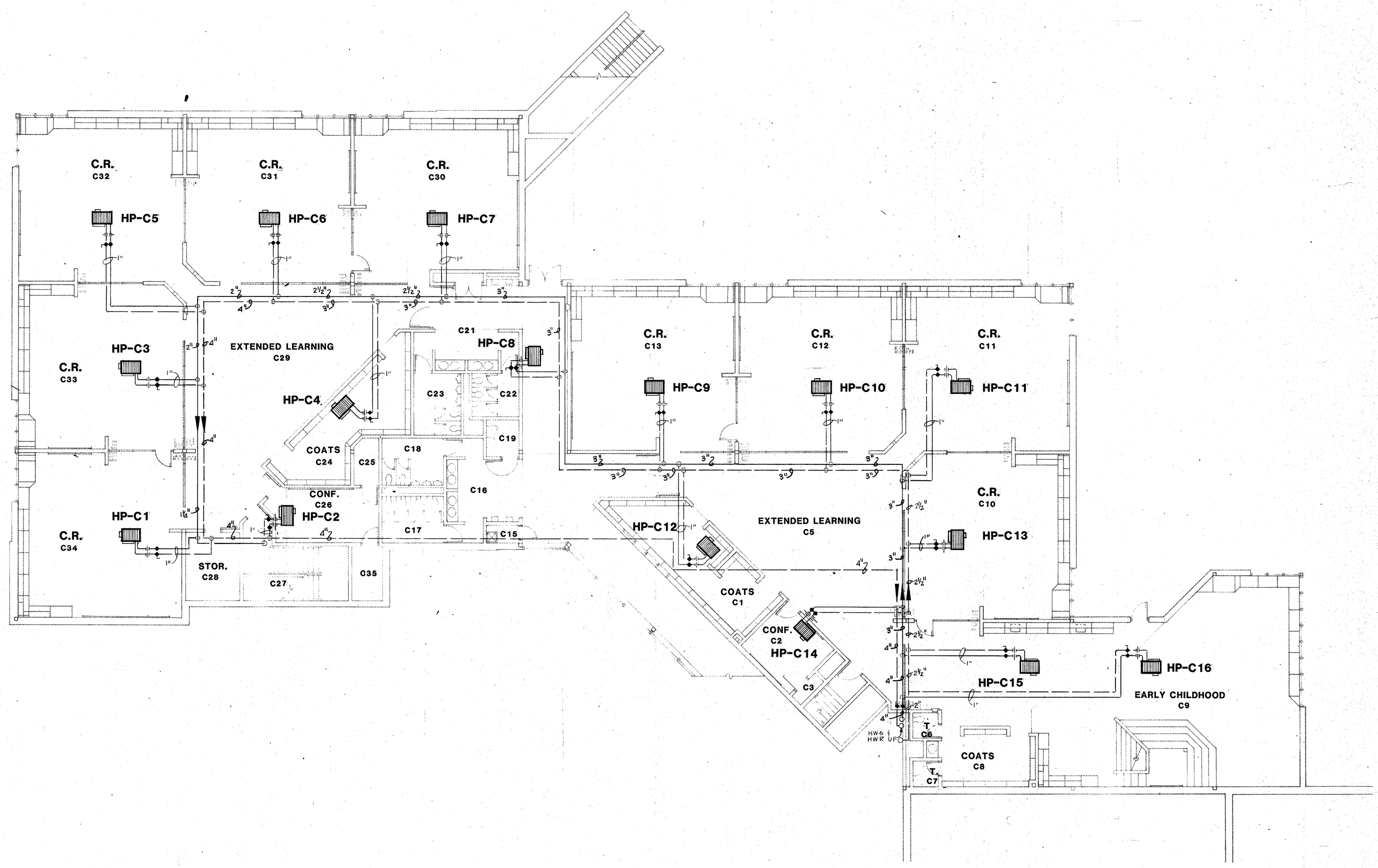
HEATING AREA "B"

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FLOOR PLAN AREA "C"

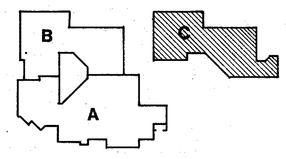
SCALE 1/8"=1'-0"

NORTH

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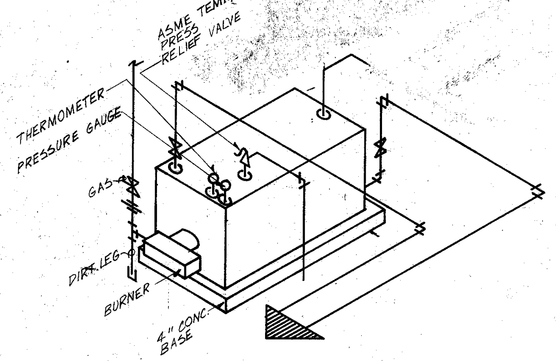
HEATING AREA "C"

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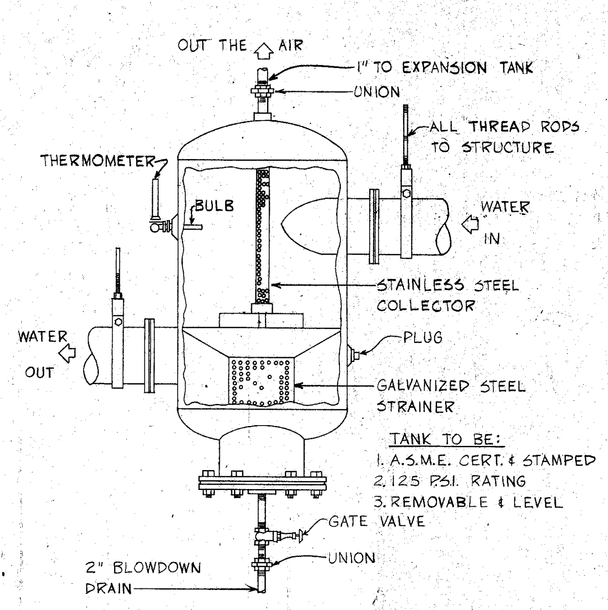
REVISIONS NO. DATE

H-3

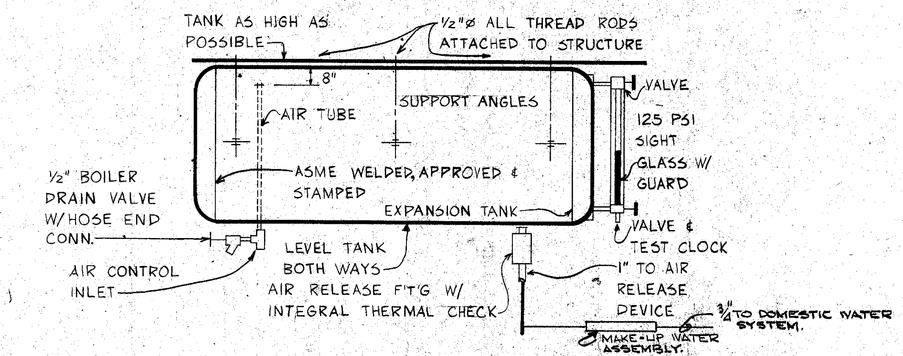
ELM ROAD 8455.00



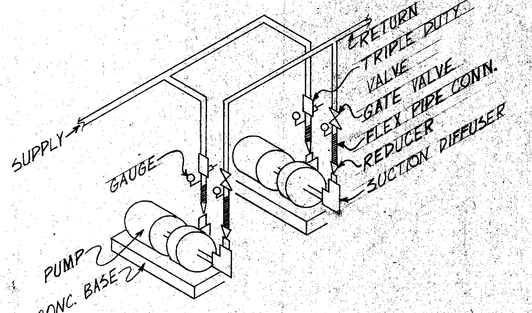
BOILER PIPING SCHEMATIC
(N.T.S.)



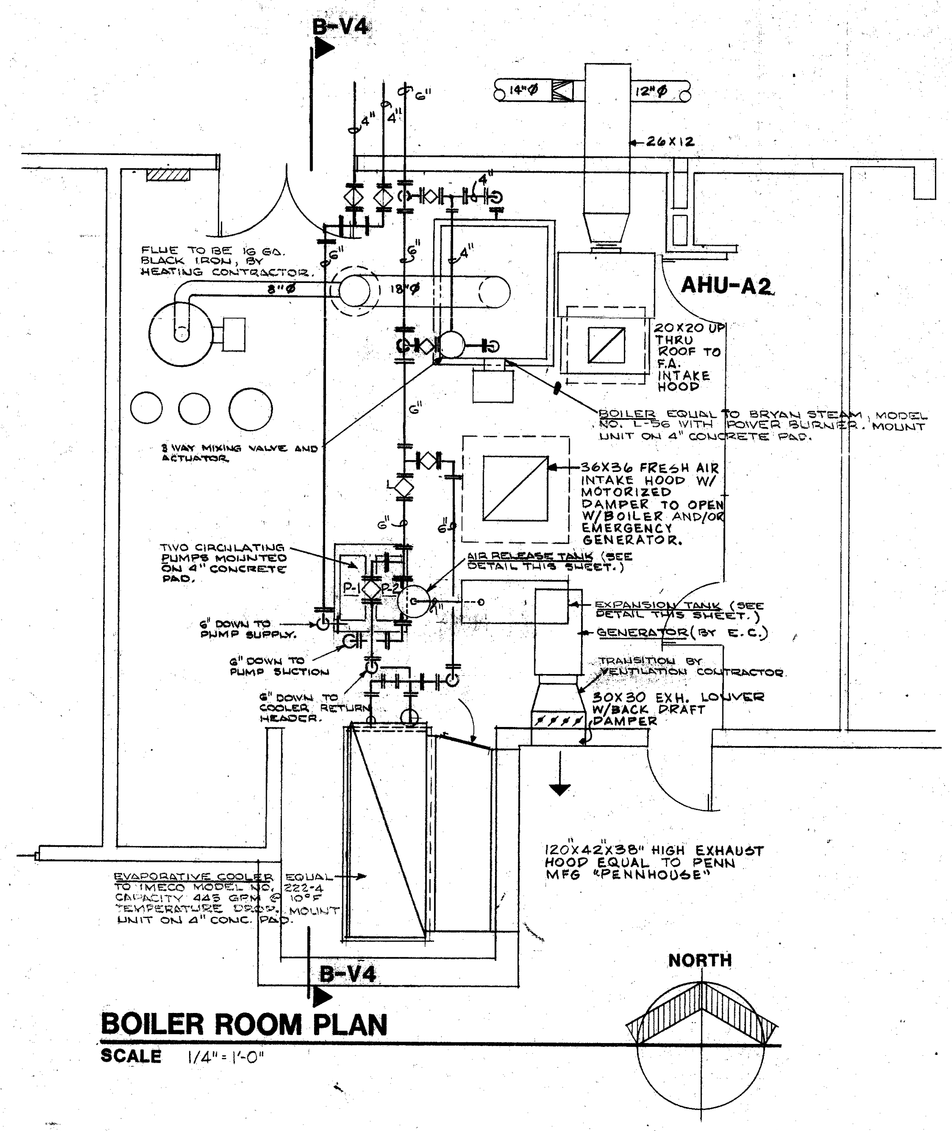
AIR RELEASE TANK
(N.T.S.)



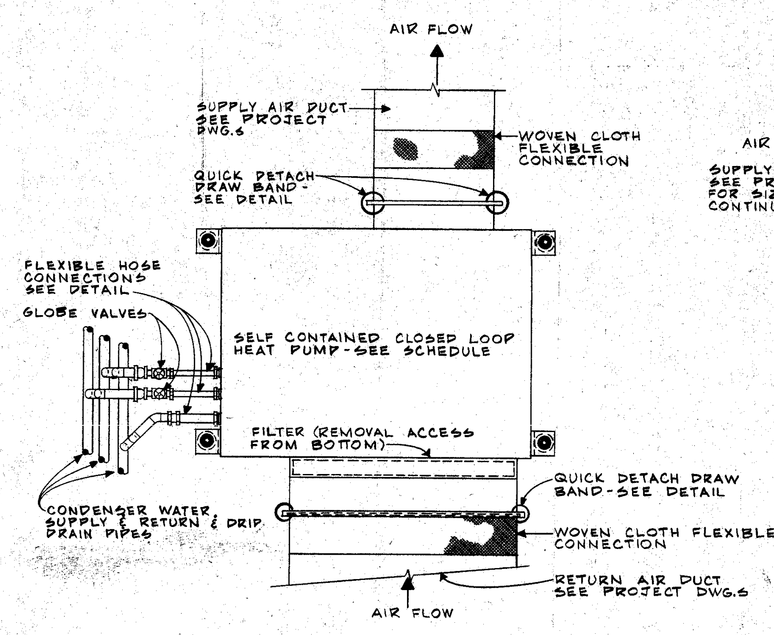
EXPANSION TANK (80 GAL CAPACITY)
(N.T.S.)



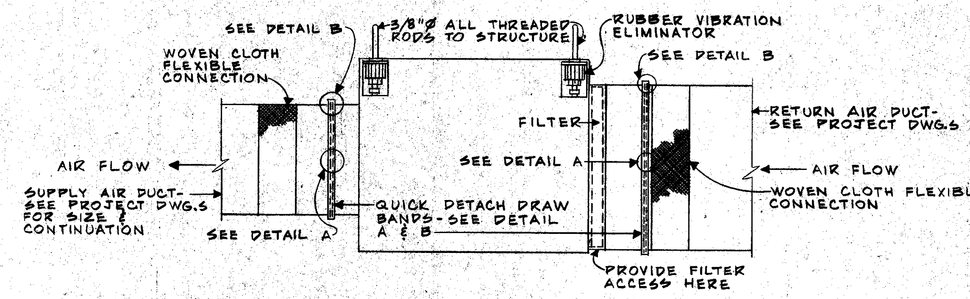
PUMP PIPING SCHEMATIC
(N.T.S.)



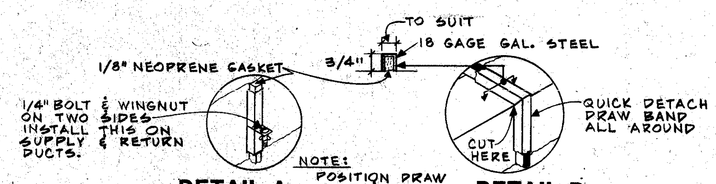
BOILER ROOM PLAN
SCALE 1/4" = 1'-0"



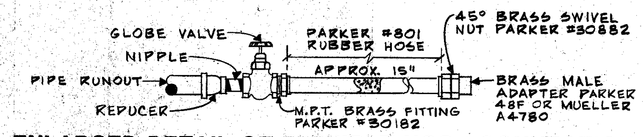
PLAN VIEW



SIDE ELEVATION

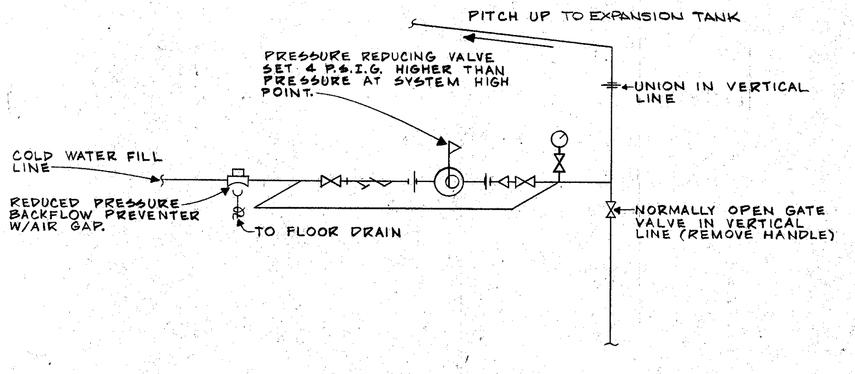


DETAIL A
DETAIL B

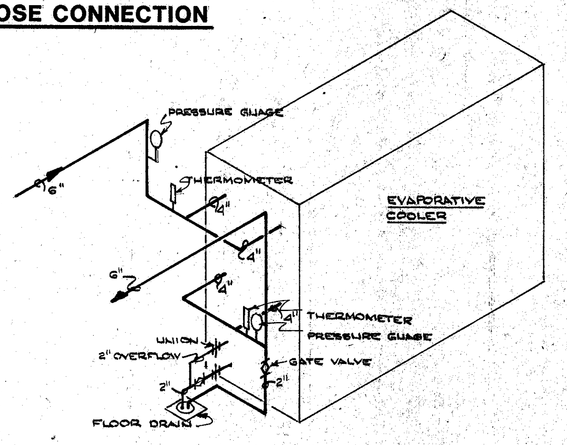


ENLARGED DETAIL OF FLEXIBLE HOSE CONNECTION

CLOSED LOOP HORIZONTAL HEAT PUMP DETAILS



MAKE-UP WATER ASSEMBLY
N.T.S.



EVAPORATIVE COOLER PIPING SCHEMATIC
N.T.S.

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MECHANICAL SYMBOLS & ABBREVIATIONS

SYMBOL	MEANING
—|—|—	UNDERGROUND SANITARY SEWER
—SAN—	ABOVE GROUND SANITARY SEWER
—||—	UNDERGROUND STORM SEWER
—STM—	ABOVE GROUND STORM SEWER
- - - - -	ABOVE GROUND VENT
-/-/-/-/-	UNDERGROUND VENT
———	DOMESTIC COLD WATER
———	DOMESTIC HOT WATER(120°F)
—140—	" " " (140°F)
—180—	" " " (180°F)
———	HOT WATER RETURN
-//-//-//-	WATER PIPING UNDER FLOOR
—OR◆	GATE VALVE
—▷◁—	GLOBE VALVE
	THERMOMETER
Ⓟ	PRESSURE GAUGE
═══	EXISTING PIPING TO REMAIN
= = = = =	EXISTING TO BE REMOVED
—⊖ H.B.	HOSE BIBB
—▷D◁—	PIPE UP & DOWN
M	METER(AS INDICATED)
—STM—	15 PSI STEAM
—COND—	COND RETURN

SYMBOL	MEANING
—HWS—	HOT WATER SUPPLY
—HWR—	HOT WATER RETURN
—OS—	OIL SUPPLY
—OR—	OIL RETURN
—OG—	OIL GAUGE
—CA—	COMPRESSED AIR
—G—	NATURAL GAS
—CD—	CONDENSATE DRAIN
—S—	REFRIGERANT SUCTION
—L—	REFRIGERANT LIQUID
⊠ ⊠	SUPPLY DUCT UP & DOWN
◪ ◪	RETURN DUCT UP & DOWN
	TURNING VAIN
AP	ACCESS PANEL
	EXTRACTOR
FD	FIRE DAMPER
BD	BALANCE DAMPER
	FLEX CONNECTION
	VIBRATION ISOLATOR
B.D.D.	BACK DRAFT (GRAVITY) DAMPER
	MOTORIZED DAMPER

SYMBOL	MEANING
A.H.U.	AIR HANDLING UNIT
C.H.	CABINET HEATER
C.I.	CAST IRON
C.O.	CLEAN OUT
C.W.	COLD WATER
E.F.	EXHAUST FAN
F.D.	FLOOR DRAIN OR FIRE DAMPER
F.R.	FIN RADIATOR
HB	HOSE BIB
HP.	HORSE POWER
H.W.	HOT WATER
INV.	INVERT
LAV.	LAVATORY
LVR.	LOUVER
NFWH	NON FREEZE WALL HYDRANT
N.T.S.	NOT TO SCALE
R.A.	RETURN AIR
R.D.	ROOF DRAIN
S.A.	SUPPLY AIR
SK	SINK
SSK	SERVICE SINK
T.U.	TERMINAL UNIT
U.H.	UNIT HEATER
UR.	URINAL
U.V.	UNIT VENT
V.B.	VACUUM BREAKER
W.C.	WATER CLOSET
W.H.	WATER HEATER

PUMP SCHEDULE

MARK	TYPE	CAPACITY GPM	CAPACITY HD	MOTOR RPM	MOTOR HP	ELEC. SERVICE	B & G MODEL #	CONTROL	ACCESSORIES	COMMENTS
P1	BASE MTD	425	50	1750	10	480/3Ø	1510	AUTOMATIC		3"G 4BC
P2	BASE MTD	425	50	1750	10	480/3Ø	1510	AUTOMATIC		
P3	IN LINE	——	——	——	——		SERIES 60	MANUAL		

EXHAUST FAN SCHEDULE

MARK	TYPE	CFM	RPM	TIP SPD	EST S.P.	SONES	ELECTRICAL HP	ELECTRICAL SERV	CONTROL	MFGR & MODEL	DRIVE	COMMENTS
A-1	CENT.	600	545	2140	.125	3.2	1/6	120/1	MANUAL	PENN BB-45	BELT	①
A-2	CENT.	600	545	2140	.125	3.2	1/6		MANUAL	PENN BB-45	BELT	①
A-3	CABINET	100	1050	——	.125	1.3	50*		LT SWITCH	PENN Z-6	DIRECT	
A-4	CABINET	100	1050	——	.125	1.3	50*		LT SWITCH	PENN Z-6	DIRECT	
A-5	CENT.	600	940	3110	.250	6.0	1/6		MANUAL	PENN FMX 12TL	DIRECT	①
A-6	CABINET	100	1050	——	.125	1.3	50*		LT SWITCH	PENN Z-6	DIRECT	
A-7	CABINET	100	1050	——	.125	1.3	50*		LT SWITCH	PENN Z-6	DIRECT	
A-8	CENT.	800	1750	3785	.250	3.8	1/12		MANUAL	PENN XQ-82	DIRECT	①
A-9	CENT.	800	825	3300	.375	5.2	1/6		PE	PENN BB-45	BELT	①
A-10	CENT.	800	825	3300	.375	5.2	1/6		PE	PENN BB-45	BELT	①
A-11	CABINET	100	1050	——	.125	1.3	50*		MANUAL	PENN Z-6	DIRECT	
A-12	CABINET	100	1050	——	.125	1.3	50*		MANUAL	PENN Z-6	DIRECT	
A-13	CENT.	350	1750	3785	.125	3.8	1/12		MANUAL	PENN XQ-85	DIRECT	①
A-14	CENT.	300	1750	3785	.125	3.8	1/12		MANUAL	PENN XQ-85	DIRECT	①
A-15	CENT.	600	940	3110	.250	6.0	1/6		MANUAL	PENN FMX 12TL	DIRECT	①
A-16	CENT.	300	1750	3785	.250	3.8	1/12		MANUAL	PENN XQ-85	DIRECT	①
A-17	CABINET	250	1050	——	.125	2.5	105*		MANUAL	PENN Z-8	DIRECT	
A-18	CENT.	200	1750	3785	.250	3.8	1/12		MANUAL	PENN XQ-85	DIRECT	①
A-19	CENT.	300	1750	3785	.250	3.8	1/12		MANUAL	PENN XQ-85	DIRECT	①
B-1	CENT.	300	1750	3785	.250	3.8	1/12	120/1	MANUAL	PENN XQ-85	DIRECT	①
B-2	CENT.	600	780	3065	.375	5.1	1/6	120/1	PE	PENN BB-45	BELT	①
B-3	CENT.	600	780	3065	.375	5.1	1/6	120/1	PE	PENN BB-45	BELT	①
B-4	CENT.	500	925	3400	.375	5.2	1/6	120/1	PE	PENN AB-85	BELT	①
B-5	CENT.	500	925	3400	.375	5.2	1/6	120/1	PE	PENN AB-85	BELT	①
B-6	CENT.	200	1750	3785	.375	3.8	1/12	120/1	MANUAL	PENN XQ-82	DIRECT	①
B-7	CENT.	200	1750	3785	.375	3.8	1/12	120/1	MANUAL	PENN XQ-82	DIRECT	①
B-8	CENT.	300	1750	3785	.250	3.8	1/12	120/1	MANUAL	PENN XQ-85	DIRECT	①

ALL FANS TO BE FURNISHED WITH INTERNAL DISCONNECT SWITCH WITH BACK DRAFT DAMPER
① WITH BIRD SCREEN
* WATTS

HEAT PUMP SCHEDULE

MARK	CFM	EXT SP	COOLING REQUIREMENTS (80/67) TOTAL BTUH	SENSIBLE BTUH	EER	HEATING REQUIREMENTS HT RJECTED	HT TOTAL BTUH	HT COP	HT ABSORBED HT	TOTAL PRESS DROP	WATER FLOW	PIPE CONNECT	CFM OA	ELECTRICAL VOLTAGE	ELECTRICAL Ø	REFERENCE AAF MODEL#	COMMENTS
A1	1090	.25	29800	21629	11.4	38755	34000	3.8	25071	16.1	7.7	1	100	480	3Ø	HW-30	
A2	1200	.50	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
A3	750	.20	18700	14384	11.4	24286	23800	3.9	17712	14.7	5.0	3/4	75	265	1Ø	HW-19	
A4		NOT	USED														
A5		NOT	USED														
A6	1200	.50	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
A7	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
A8	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
A9	1200	.50	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
A10	750	.20	18700	14384	11.4	24286	23800	3.9	17712	14.7	5.0	3/4	75	265	1Ø	HW-19	
A11	1200	.50	39000	28037	10.6	51858	44500	3.6	32152	13.5	10.2	1	150	480	3Ø	HW-39	
A12	750	.20	18700	14384	11.4	24286	23800	3.9	17712	14.7	5.0	3/4	75	265	1Ø	HW-19	
A13	2160	.50	60000	45145	10.6	80495	74000	3.6	53183	24.3	16.1	1 1/4	200	480	3Ø	HW-61	
A14	2160	.50	60000	45145	10.6	80495	74000	3.6	53183	24.3	16.1	1 1/4	200	480	3Ø	HW-61	
A15	2160	.50	60000	45145	10.6	80495	74000	3.6	53183	24.3	16.1	1 1/4	200	480	3Ø	HW-61	
B1	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
B2	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
B3	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
B4	350	.10	7100	5562	10.6	9398	6500	3.8	6984	3.3	1.8	3/4	0	265	1Ø	HW-09	
B5	1200	.30	39000	28037	10.6	51858	44500	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-39	
B6	1360	.35	41000	30889	11.5	54813	46500	3.8	34264	16.9	10.9	1	150	480	3Ø	HW-41	
B7	1200	.30	39000	28037	10.6	51858	44500	3.6	32152	13.5	10.2	1	150	480	3Ø	HW-39	
B8	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
B9	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
B10	600	.15	15000	11963	11.3	19677	18000	4.0	13448	10.5	4.0	3/4	0	265	1Ø	HW-15	
B11	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
B12	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
B13	1200	.30	39000	28037	10.6	51358	44500	3.6	32152	13.5	10.2	1	150	265	1Ø	HW-39	
B14	1360	.35	41000	30889	11.5	54813	46500	3.8	34264	16.9	10.9	1	150	480	3Ø	HW-41	
B15	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
B16	350	.10	7100	5562	10.6	9398	9500	3.8	6984	3.3	1.8	3/4	0	265	1Ø	HW-09	
B17	1200	.50	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
B18	1090	.25	29800	21629	11.4	38755	34000	3.8	25071	16.1	7.7	1	100	480	3Ø	HW-30	
C1	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1		480	3Ø	HW-36	
C2	350	.10	7100	5562	10.6	9398	19500	3.8	6984	3.3	1.8	3/4	——	265	1Ø	HW-09	
C3	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
C4	1360	.35	41000	30889	11.5	54813	46500	3.8	34264	16.9	10.9	1	150	480	3Ø	HW-41	
C5	1200	.35	39000	28037	10.6	51358	44500	3.6	32152	13.5	10.2	1	150	480	3Ø	HW-39	
C6	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
C7	1200	.35	39000	28037	10.6	51358	44500	3.6	32152	13.5	10.2	1	150	480	3Ø	HW-39	
C8	600	.15	15000	11963	11.3	19677	18000	4.0	13448	10.5	4.0	3/4	——	265	1Ø	HW-15	
C9	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
C10	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
C11	1200	.35	38000	28037	10.6	51358	44500	3.6	32152	13.5	10.2	1	150	480	3Ø	HW-39	
C12	1360	.35	41000	30889	11.5	54813	46500	3.8	34264	16.9	10.9	1	150	480	3Ø	HW-41	
C13	1200	.30	36000	25677	11.0	47204	43000	3.6	31057	11.8	9.5	1	150	480	3Ø	HW-36	
C14	350	.10	7100	5562	10.6	9398	9500	3.8	6984	3.3	1.8	3/4	——	265	1Ø	HW-09	
C15	1640	.50	51000	36915	10.2	68104	64000	3.6	46155	14.6	13.6	1	150	480	3Ø	HW-51	
C16	1640	.50	51000	36915	10.2	68104	64000	3.6	46155	14.6	13.6	1	150	480	3Ø	HW-51	

ALL UNITS TO BE FURNISHED WITH 1" FILTERS, EQUAL TO FARR MFG. CO. #3080
ALL UNITS TO BE FURNISHED W/FACTORY SUPPLIED FUSED DISCONNECT SWITCH INSTALLED BY EC

CABINET HEATER UNIT HEATER & FIN TUBE SCHEDULE

MARK	CFM	RPM	HP	HEATING BTUH	HEATING EAT	HEATING LAT	FIN TUBE KW	FIN TUBE PD	FIN TUBE LENGTH	FIN TUBE WATTS	FIN TUBE FPI	ENCLO	ELEC SERV	CONTROL	TRANE REF.#	COMMENTS
A-1	300	1100	1/30	19100	70	——	5.6	——	——	——	—		480/3	LOW VOLT	E-46	W/INTERNAL DISCONNECT & CONTROL TRANS.
A-2	300	1100	1/30	19100	70	——	5.6	——	——	——	—		480/3		E-46	
A-3	600	1100	1/30	38000	70	——	11.25	——	——	——	—		480/3		E-36	
A-4	600	1100	1/30	38000	70	——	11.25	——	——	——	—		480/3		E-36	
A-5	500	1100	1/30	38000	70	——	11.25	——	——	——	—		480/3		D-46	
A-6	300	1100	1/30	19100	70	——	5.6	——	——	——	—		480/3		E-46	
A-7	500	1100	1/30	38000	70	——	11.25	——	——	——	—		480/3		D-46	
A-8	500	1100	1/30	38000	70	——	11.25	——	——	——	—		480/3		D-46	
A-9	500	1100	1/30	38000	70	——	11.25	——	——	——	—		480/3		E-46	
A-10	500	1100	1/30	38000	70	——	11.25	——	——	——	—		480/3		D-46	
A-11	500	1100	1/30	38000	70	——	11.25	——	——	——	—		480/3	LOW VOLTAGE	D-46	W/ INTERNAL DISCONNECT & CONTROL TRANS.
FT-A1	——	——	——	——	——	——	——	——	7'-0"	2450	TA		277/1			
FT-A2	——	——	——	4760	——	——	——	——	4'-0"	1400	6E		277/1			
FT-A3	——	——	——	4760	——	——	——	——	4'-0"	1400	TA		277/1			

AIR HANDLING UNIT SCHEDULE

MARK	CFM	RPM	EXT. SP	HEATING BTUH	HEATING EAT	HEATING LAT	COOLING KW	COOLING PD	COOLING BTUH	COOLING EAT DB	COOLING EAT WB	COOLING LAT DB	COOLING LAT WB	ELEC HP	ELEC SERV	TRANE REF.#	COMMENTS
A-1	8400	500	.5	250000	58.9	84.3	74	——	——	——	——	——	——	5	480/3	*T-17	W/FILTER MIXING BOX
A-2	2200	1160	.75	204000	0	85.5	60	——	——	——	——	——	——	1/2		*6	
B-1	1200	750	.5	102000	0	78.3	30	——	——	——	——	——	——	1/2		*8	
B-2	900	650	.5	81600	0	88.6	24	——	——	——	——	——	——	1/2		*8	
B-3	900	650	.5	81600	0	88.6	24	——	——	——	——	——	——	1/2		*8	
B-4	1060	700	.5	91800	0	80.6	27	——	——	——	——	——	——	1/2	480/3	*8	W/ FILTER MIXING BOX

PROVIDE AIR FLOW SWITCH W/ALL UNITS FOR PROOF OF FLOW.
UNITS A-2, B1, B2, B3 & B4 TO BE FURNISHED W/ MOTORIZED DPR TO CLOSE WHEN UNIT IS OFF

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LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

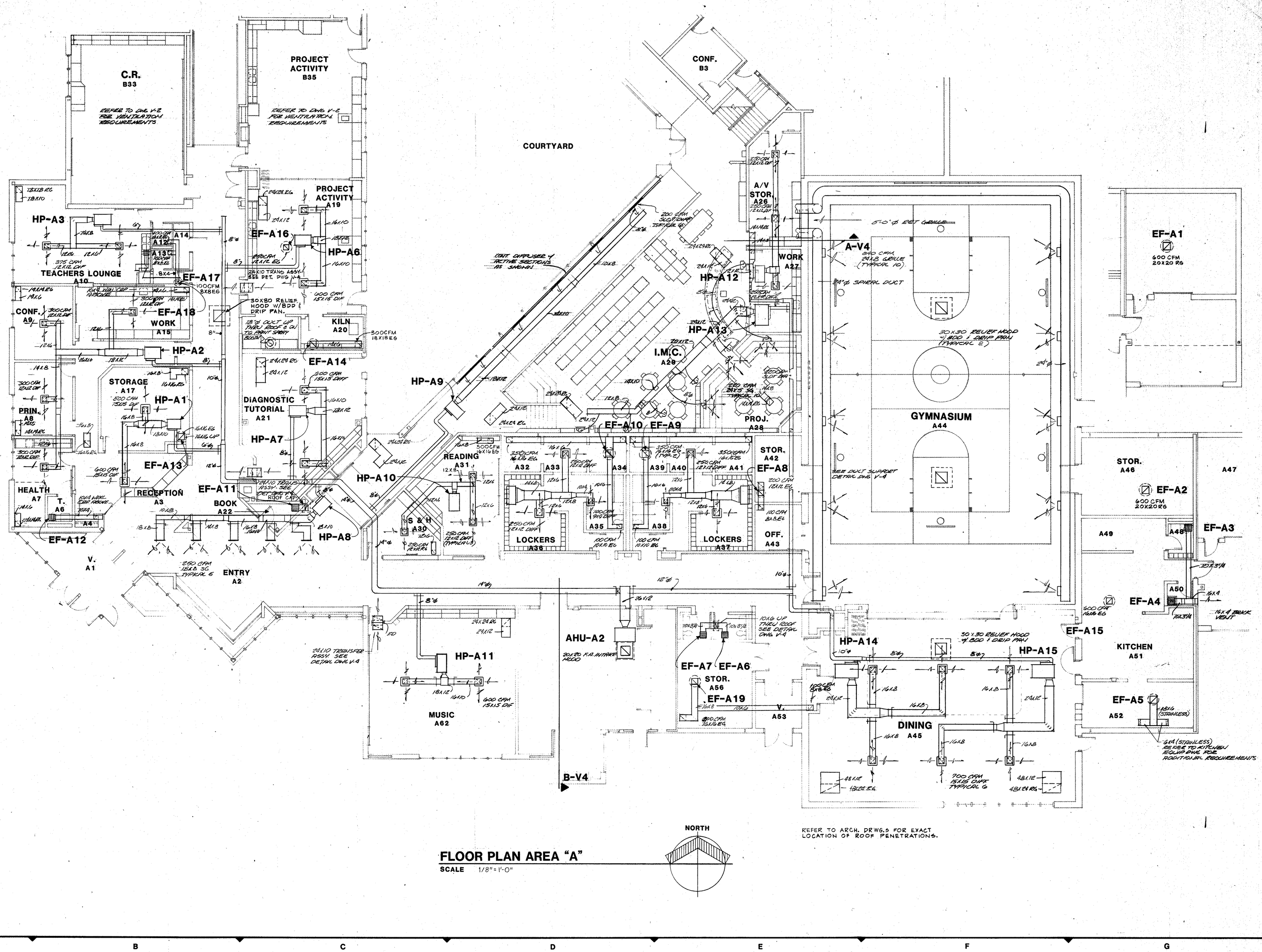
DETAILS & SCHEDULES

DRAWN BY: M.L.S. COMM. NO.: 8485.00
CHECKED BY: C.A.M.C. DATE: 11 NOV. 1985

REVISIONS NO. DATE

H-5

ELM ROAD 8485.00



REFER TO ARCH. DRWGS FOR EXACT LOCATION OF ROOF PENETRATIONS.

FLOOR PLAN AREA "A"

SCALE 1/8" = 1'-0"

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

KEY PLAN

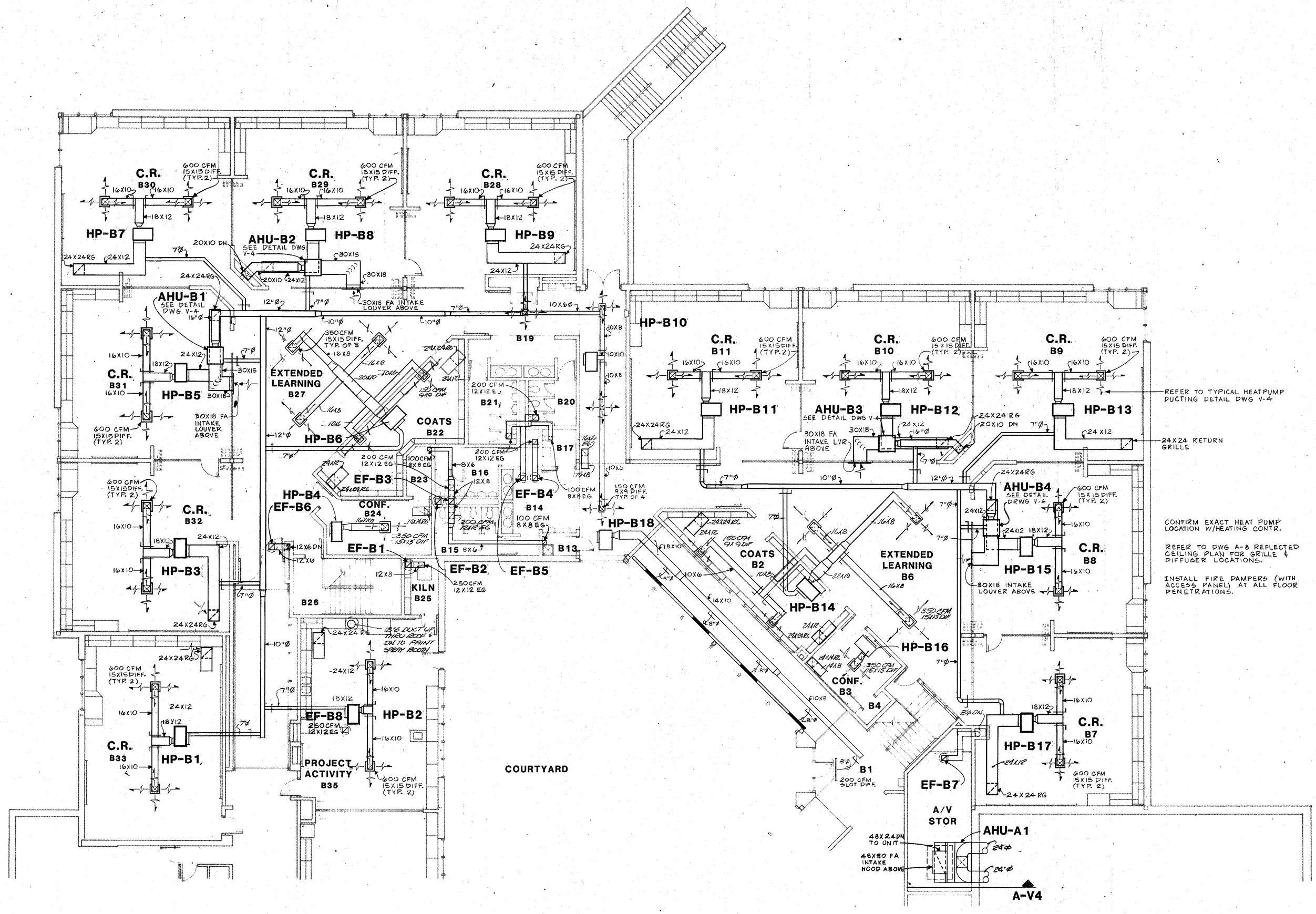
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VENTILATING AREA "A"

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V-1



FLOOR PLAN AREA "B"

SCALE 1/8"=1'-0"

NORTH

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

KEY PLAN

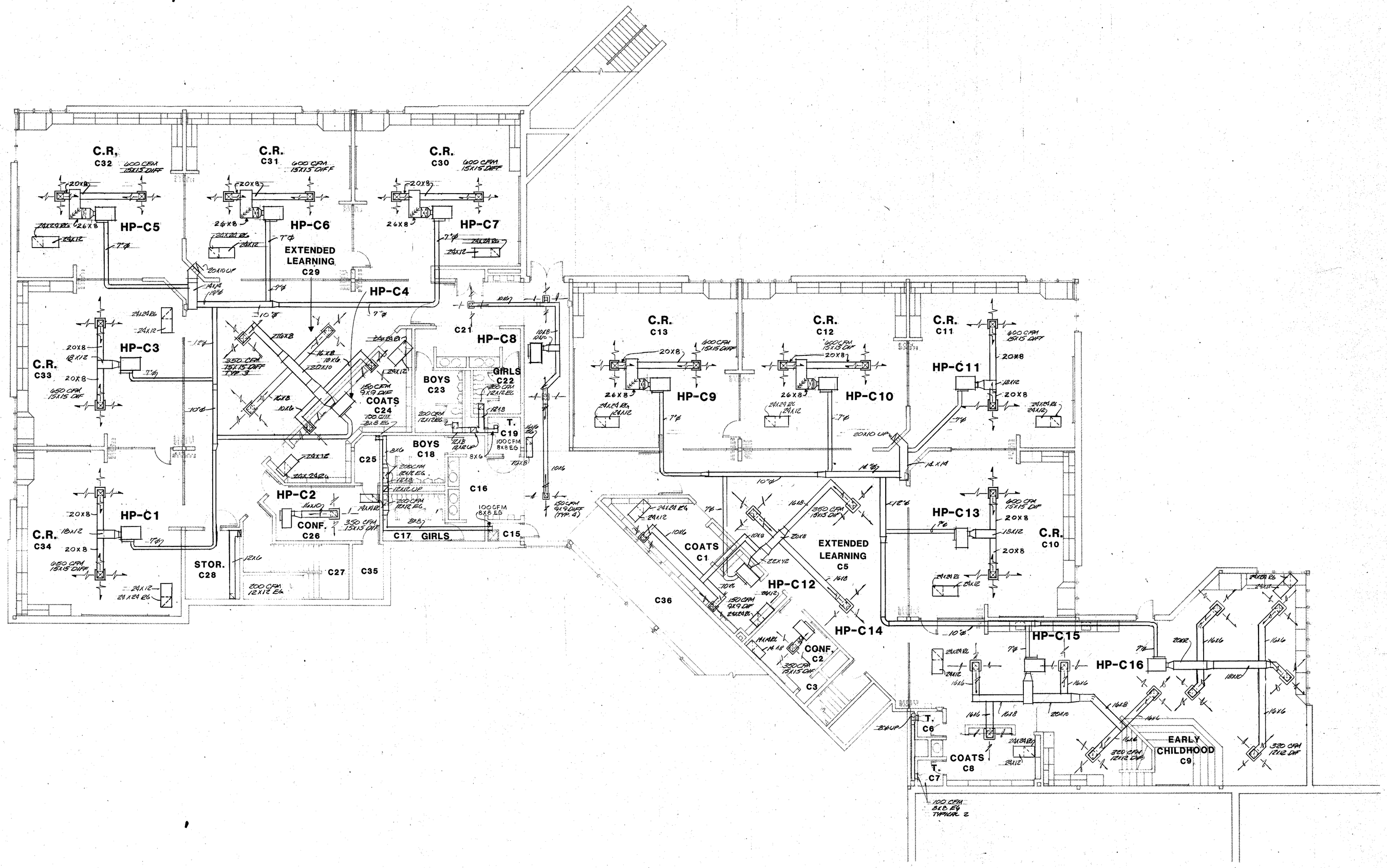
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VENTILATING AREA "B"

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V-2

ELM ROAD 8455.00



NORTH

FLOOR PLAN AREA "C"

SCALE

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

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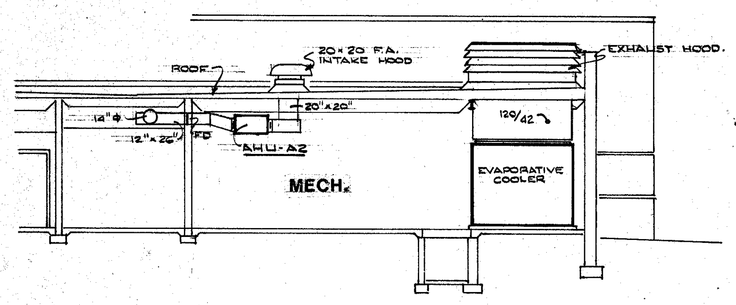
VENTILATING AREA "C"

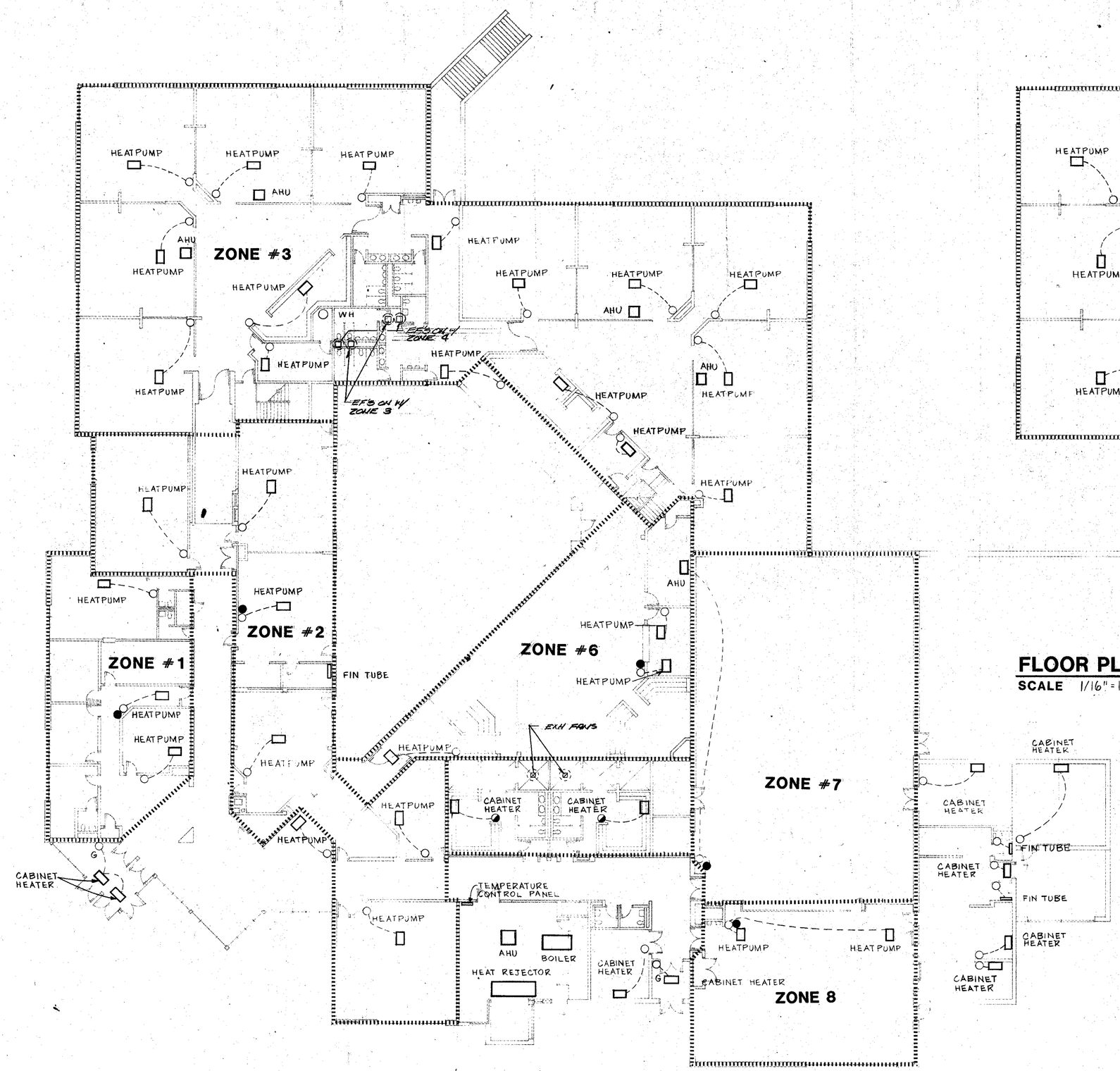
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REVISIONS NO. DATE

V-3

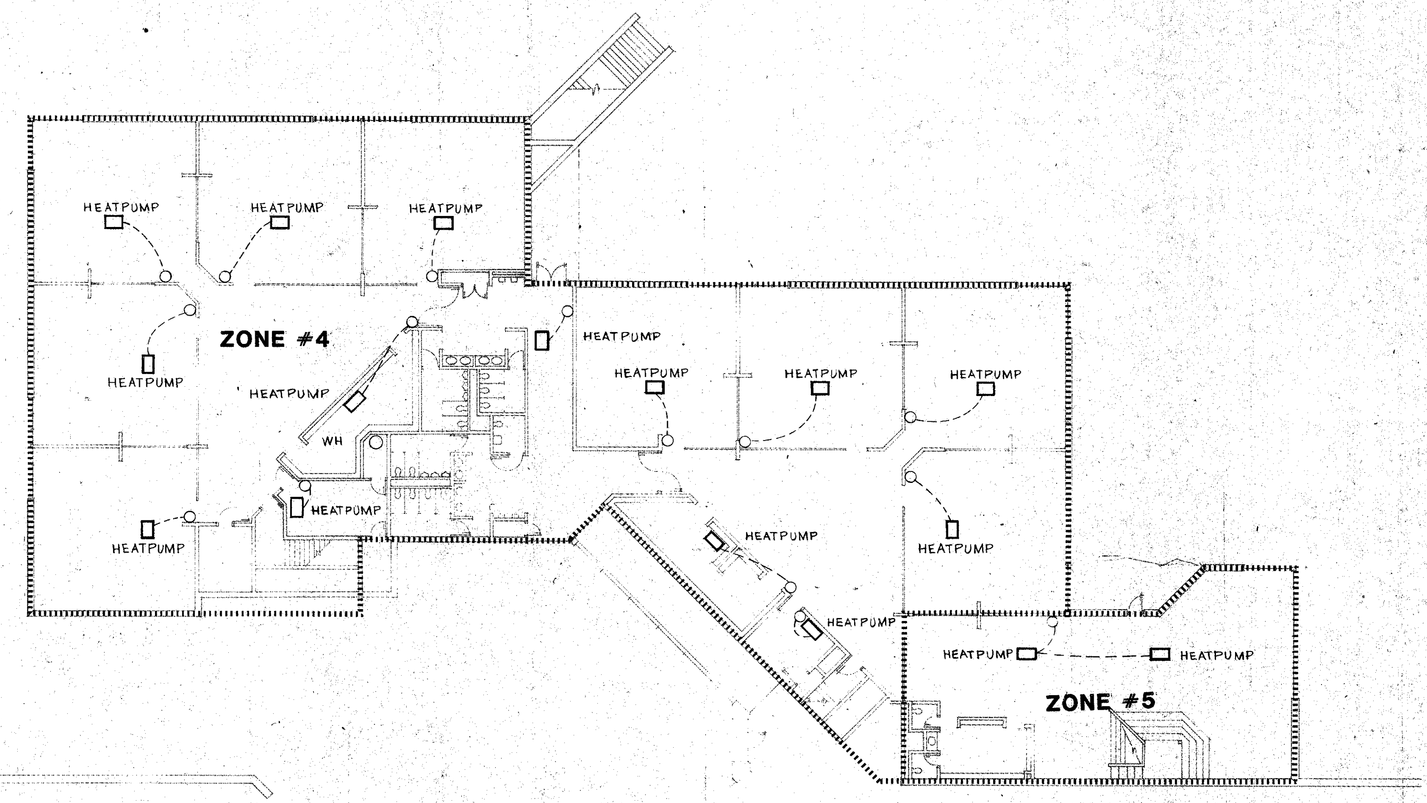
ELM ROAD 8455.00


ROOF
20x20 F.A. INTAKE HOOD
EXHAUST HOOD.
20"x20"
12"x12"
FD
AHU-A2
MECH.
EVAPORATIVE COOLER
12"ø
12"ø
12"
12"
12"



FLOOR PLAN - A & B

SCALE 1/16"=1'-0"



FLOOR PLAN C

SCALE 1/16"=1'-0"

NOTES:

REFER SPECIFICATION SECTION 15900 FOR ADDITIONAL INFORMATION.

ALL HEAT PUMP THERMOSTATS ARE TO BE FURNISHED BY THE HEATING CONTRACTOR AND INSTALLED BY THE TEMPERATURE CONTROL CONTRACTOR.

ALL NIGHT THERMOSTATS, CABINET HEATER, FIN TUBE AND AIR HANDLING UNIT THERMOSTATS AND CONTROLS TO BE FURNISHED & INSTALLED BY TEMPERATURE CONTROL CONTRACTOR.

EXHAUST FAN ENTRYS: INTERLOCK BY TEMP. CONTROL CONTR.

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

KEY PLAN

FANNING/HOWEY ASSOCIATES, Inc.
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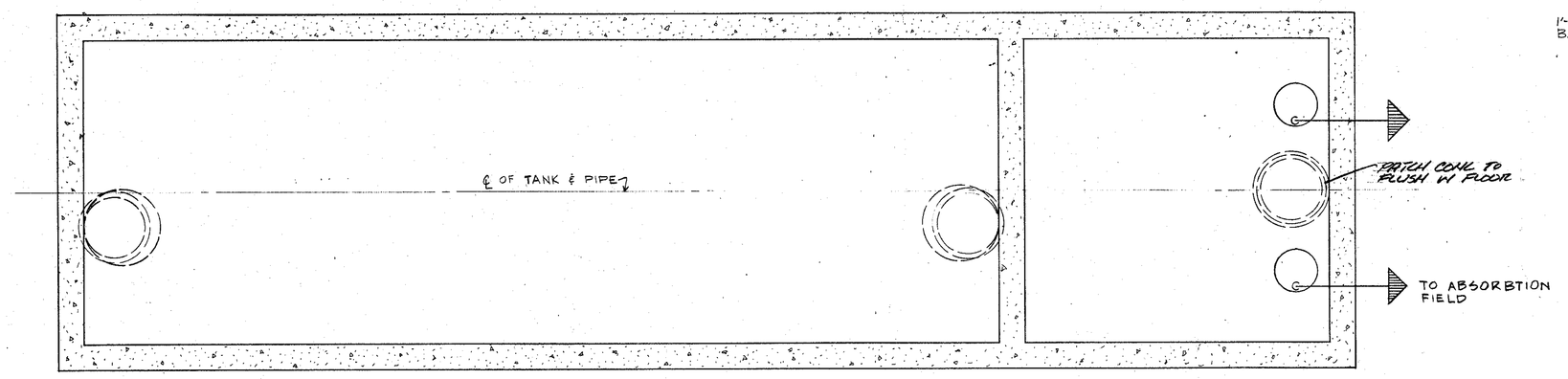
TEMPERATURE CONTROL PLAN

DRAWN BY: M.L.S. COMM. NO.: 8455.00
CHECKED BY: C.A.M.S. DATE: 11 NOV. 1985

REVISIONS NO. DATE

TC-1

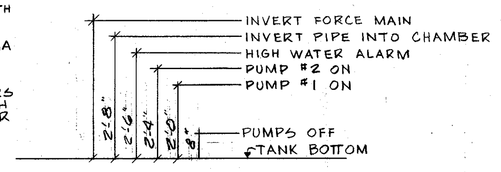
ELM ROAD 8455.00



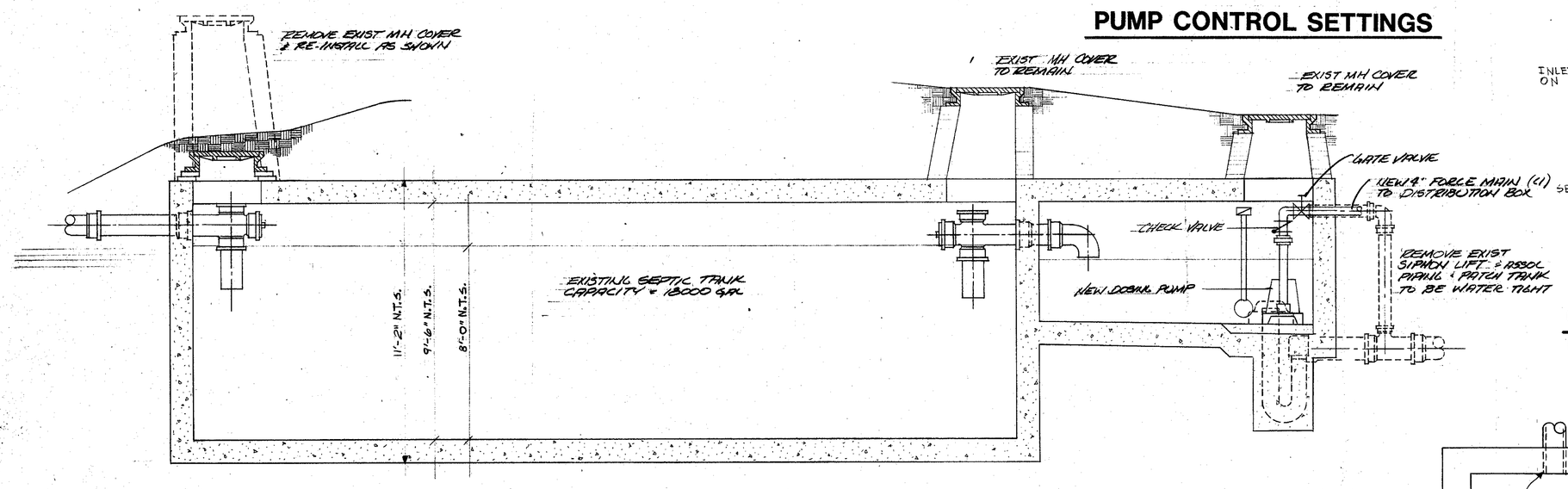
SEPTIC TANK PLAN
SCALE 3/8" = 1'-0"

NOTE:
DOSING PUMPS-2 EACH, CHICAGO PUMP COMPANY, IMMERSIBLE, CENTRIFUGAL, CAST IRON, NON-CLOG, SEWAGE PUMPS WITH CAST-IRON IMPELLER KEYED TO SHAFT. EACH PUMP MOTOR TO BE 2 HP, 220V., 3Ø, 1750RPM, UL APPROVED FOR CLASS I, GROUP D, HAZARDOUS LOCATIONS. MOTORS TO HAVE C.T. FRAMES, END SHIELDS, STAINLESS STEEL SHAFT, INNER AND OUTER SEAL WATER SENSING PROBE TO SENSE PRESENCE OF WATER IN EVENT OF OUTER SEAL FAILURE, THERMAL PROTECTION RATED NEMA MG-1-12, FURNISHED WITH 30 FEET OF MULTI-CONDUCTOR CABLE WITH GROUND. PUMPS TO BE RATED FOR 100 GPM AT 20'HEAD EACH. FURNISH A SEALTRODE FLOATLESS PUMP CONTROLLER WITH ELECTRODES, HIGH WATER ALARM. PROVIDE AUTOMATIC ALTERNATOR FOR PUMPS AND TERMINAL BOX OF NEMA 4 TYPE. PUMPS AS MANUFACTURED BY WEIL AND CRANE-DEMMING ARE CONSIDERED EQUAL.

PUMP CONTROL PANEL FOR DUPLEX SEWAGE PUMPS TO BE MOUNTED INDOORS IN LOCATION SHOWN. PANEL INSTALLATION BY P.C. WIRING BY E.C. FURNISH CONTROL PANEL WITH DISCONNECT, COMBINATION FUSEABLE MOTOR STARTER FOR EACH MOTOR, AND REQUIRED CONTROLS TO OPERATE AND ALTERNATE MOTORS.

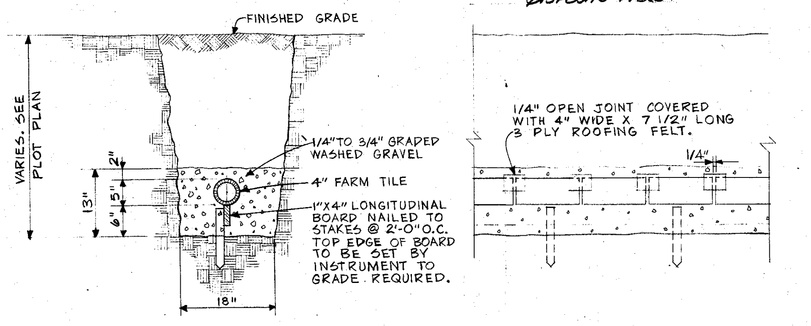


PUMP CONTROL SETTINGS



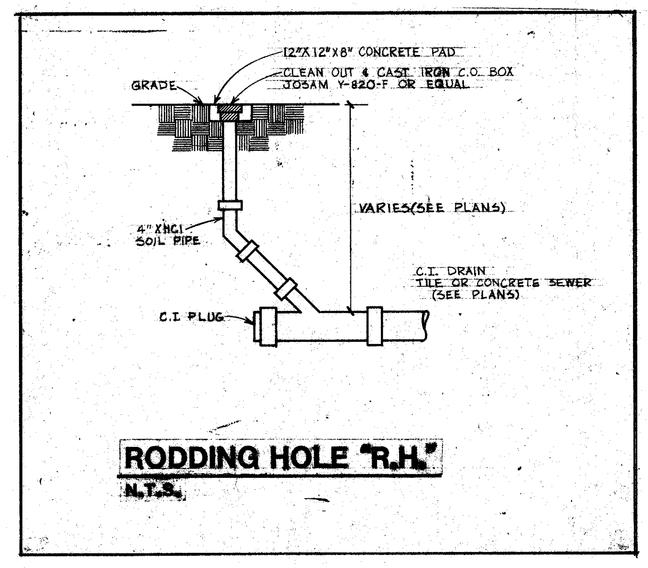
SEPTIC TANK LONGITUDINAL SECTION
SCALE 3/8" = 1'-0"

NOTE: REFER TO SPECIFICATIONS FOR ALT. PAVING MATERIALS THAT ARE ACCEPTABLE FOR DISPOSAL FIELD.

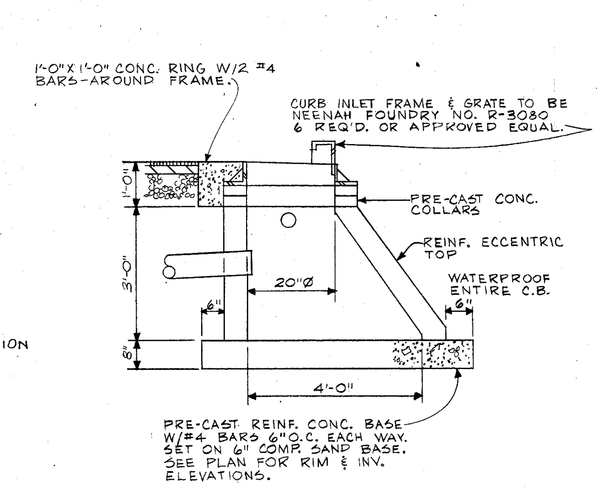


SECTION **SCALE** 3/4" = 1'-0" **ELEVATION** **SCALE** 3/4" = 1'-0"

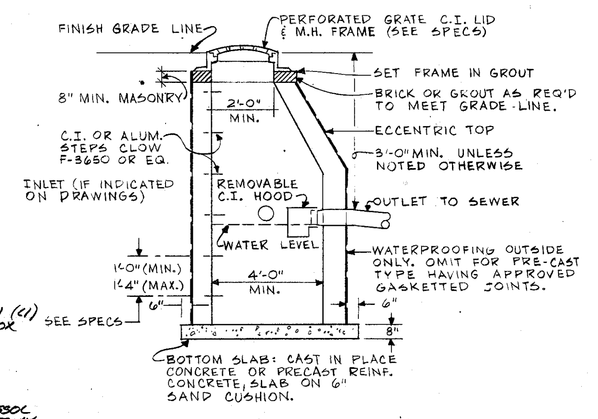
DETAILS OF SEPTIC SYSTEM DISPOSAL FIELD



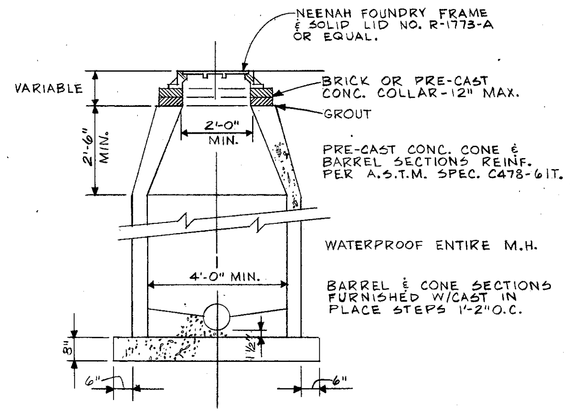
RODDING HOLE "R.H."
N.T.S.



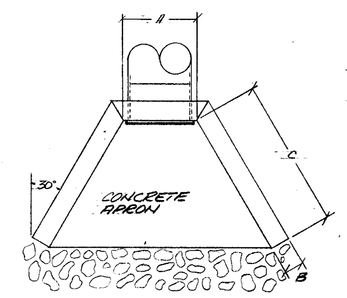
CATCHBASIN TYPE #1 DETAIL
SCALE 1/2" = 1'-0"



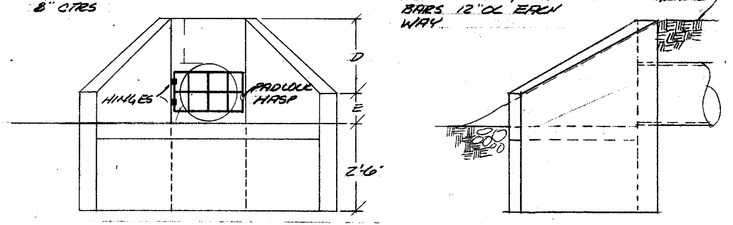
CATCHBASIN TYPE #2 DETAIL
N.T.S.



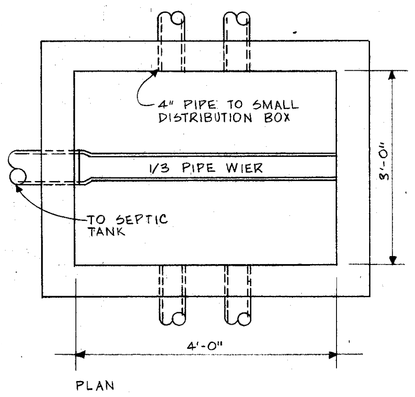
MANHOLE DETAIL
N.T.S.



DIMENSIONS						
DIA. OF M.H.	A	B	C	D	E	
12	20	6	36	16	12	
18	30	8	48	24	12	

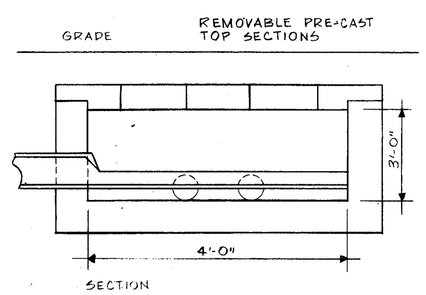


HEAD WALL DETAIL
NTS

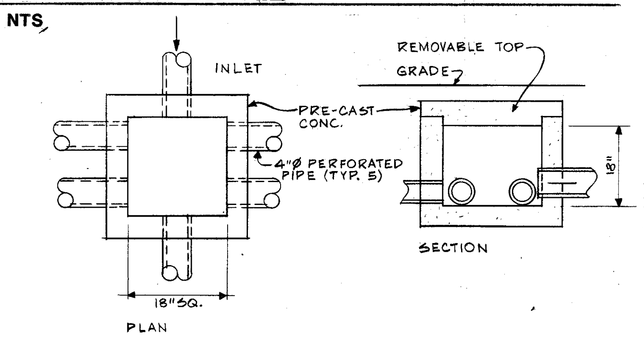


PLAN

LARGE DISTRIBUTION BOX
N.T.S.



SECTION



PLAN SECTION

SMALL DISTRIBUTION BOX
N.T.S.

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LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

DETAILS AND SCHEDULES

DRAWN BY: M.L.S. COMM. NO.: 8455.00
CHECKED BY: C.A.M^c. DATE: 11 NOV. 1985

REVISIONS NO. DATE

SU-2

ELM ROAD 8455.00

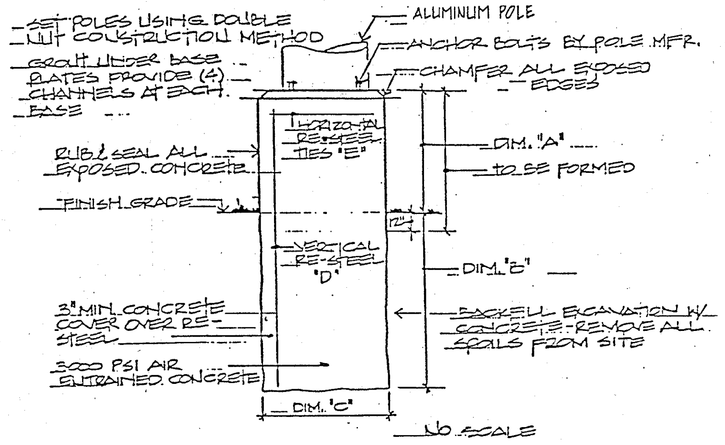
ELECTRICAL SYMBOLS

SYMBOLS	DESCRIPTION
————	CONDUIT CONCEALED ABOVE CEILING OR IN WALL WHEREVER POSSIBLE.
- - - - -	CONDUIT CONCEALED IN OR BELOW FLOOR.
—·—·—	CONDUIT EXPOSED ON CEILING, WALL OR BAR-JOIST FOR EXPOSED TYPE BUILDING CONSTRUCTION.
	INDICATES NUMBER OF CONDUCTORS IN CONDUIT TO BE USED AS A GENERAL GUIDE TO SHOW INTENT OF CIRCUITING AND SWITCHING ARRANGEMENT...NOT SHOWN IN ALL CASES...CONTRACTOR SHALL VERIFY AND INSTALL ADDITIONAL CONDUCTOR WHERE REQUIRED.
A-1	HOME-RUN TO PANELBOARD SHOWING CIRCUIT DESIGNATION, INDICATING PANEL AND CIRCUIT BREAKER NUMBER WITHIN THE PANEL. BREAKER LOCATIONS IN PANEL MAY BE REARRANGED TO PERMIT USE OF COMMON NEUTRAL CONDUCTOR.
	CONDUIT RISE.
	CONDUIT DROP.
C	INDICATING CLOCK OUTLET.
S	FLUSH CEILING SPEAKER WITH CEILING BAFFLE AND PROTECTIVE SPEAKER ENCLOSURE.
	HORN TYPE WALL MOUNTED SPEAKER WITH MOUNTING BRACKET.
FA	FIRE ALARM PANEL - SEE SPECS FOR DETAILS.
FAA	FIRE ALARM ANNUNCIATOR.
F	FIRE ALARM BREAK GLASS STATION .
F	FIRE ALARM HORN/STROBE AND GLASS STATION.
	FIRE ALARM HORN/STROBE.
F_T	HEAT DETECTOR.
F_S	SMOKE DETECTOR.
F_S	DUCT MOUNTED SMOKE DETECTOR...COORDINATE INSTALLATION WITH DIVISION 15.
	CALL-IN SWITCH FOR CENTRAL SOUND SYSTEM - SEE SPECS FOR DETAILS.
VC	CALL-IN SWITCH WITH VOLUME CONTROL FOR CENTRAL SOUND SYSTEM.
CS	CENTRAL SOUND SYSTEM & TERMINAL CABINET...SEE SPECS FOR FOR DETAILS.
CMS	MULTI-PURPOSE ROOM SOUND SYSTEM...SEE SPECS FOR DETAILS.
M M	FLUSH WALL MOUNTED MICROPHONE OUTLET.
S	MULTI-PURPOSE ROOM SOUND SYSTEM SPEAKERS.
MATV	MASTER TV HEAD END EQUIPMENT...SEE SPECS FOR FOR DESCRIPTION.
	CATV SYSTEM ROOM ACCESS OUTLET...SEE SPECS FOR DESCRIPTION.
TTC	TERMINAL TELEPHONE CABINET, WITH PLYWOOD INTERIOR AND 120V DUPLEX CONVENIENCE OUTLET INSIDE.
	FLUORESCENT LIGHTING FIXTURE.
	INCANDESCENT OR HID LIGHTING FIXTURE - LOWER CASE LETTER INDICATES SWITCHING OR CIRCULATING ARRANGEMENT.
	LIGHTING FIXTURE CONNECTED TO EMERGENCY PANEL.
	EXIT LIGHTING FIXTURE.
	EMERGENCY BATTERY PACK FIXTURE.
S	GENERAL PURPOSE 1-POLE SWITCH .
S_3	GENERAL PURPOSE 3-WAY SWITCH.
S_4	GENERAL PURPOSE 4-WAY SWITCH.
S_K	GENERAL PURPOSE KEY-OPERATED SWITCH.
S_{FP}	FRACTIONAL HORSEPOWER FLUSH MANUAL STARTER WITH PILOT LAMP, ASSEMBLY.
SP	GENERAL PURPOSE 1-POLE SWITCH WITH PILOT LIGHT.
S_{MC}	MAINTAIN CONTACT SWITCH.
D	WALL DIMMER SWITCH.
	TELEPHONE FLUSH WALL OUTLET - RUN CONDUIT TO TELEPHONE CABINET.
PE	PNEUMATIC-ELECTRIC SWITCH.
J	JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
J	FLEXIBLE CONNECTION FROM JUNCTION BOX TO EQUIPMENT.
EX	INDICATES EXPLOSION PROOF TYPE DEVICE.
WP	INDICATES WEATHER PROOF TYPE DEVICE.
+N	INDICATES MOUNTING HEIGHT (N) TO CENTER OF DEVICE FROM FINISH FLOOR. UNLESS NOTED OTHERWISE.

SYMBOLS	DESCRIPTION
	TELEPHONE FLUSH FLOOR OUTLET - RUN 3/4" CONDUIT TO TELEPHONE CABINET.
T	TRANSFORMER
	ELECTRIC PANELBOARDS.
A	AQUASTAT CONNECTION.
SV	SUPERVISORY VALVE CONNECTION.
FS	FLOW SWITCH CONNECTION.
M	ELECTRIC MOTOR CONNECTION.
	MAGNETIC STARTER. SEE SPECS FOR DETAILS.
	COMBINATION MAGNETIC STARTER WITH DISCONNECT SWITCH. SEE SPECS FOR DETAILS.
R	DISCONNECT SWITCH, "R" INDICATES AMPERE RATING. SEE SPEC SECTION 16155.
	PUSH BUTTON STATION.
J	JUNCTION BOX.
	120V-20A GROUNDED DUPLEX CONVENIENCE OUTLET.
WC	120V-20A WATER COOLER OUTLET. DIV 16 SHALL VERIFY EXACT LOCATION OF WATER COOLER OUTLET WITH MANUFACTURER'S DRAWINGS.
	120V-20A GROUNDED DUPLEX CONVENIENCE OUTLET MOUNTED @ 48" AFF.
G	120V-20A GROUNDED DUPLEX CONVENIENCE OUTLET WITH GFI PROTECTION.
WP	120V-20A GROUNDED DUPLEX CONVENIENCE OUTLET WITH WP COVER PLATE.
	120V-20A GROUNDED DOUBLE DUPLEX CONVENIENCE OUTLET MOUNTED.
	120V-20A GROUNDED DUPLEX CONVENIENCE FLOOR OUTLET.
EQ	120V-20A GROUNDED DUPLEX CONVENIENCE OUTLET WITH FLEXIBLE CONNECTION TO EQUIPMENT.
	SPECIAL PURPOSE OUTLET (AS NOTED ON PLAN OR SPECIFICATIONS).
TV	TELEVISION ANTENNA OUTLET.

GENERAL NOTES

1. ALL 2' X 4' FLUORESCENT LIGHT FIXTURES SHOWN ON LIGHTING PLANS SHALL BE STATIC TYPE "F-1" UNLESS NOTED OTHERWISE. FINAL CONNECTIONS TO ALL LAY-IN FIXTURES AND RECESSED INCANDESCENT FIXTURES IN LAY-IN CEILINGS ARE TO BE MADE WITH GREENFIELD FLEXIBLE CONDUIT.
2. E.C. SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURE LAY-OUT. CONTRACTORS TO CORRELATE LOCATIONS OF LIGHTING, SPEAKERS, AIR DIFFUSERS, GRILLES, AND THE LIKE, WITH REFLECTED CEILING LAY-OUTS AS REQUIRED AND DIRECTED BY THE ARCHITECT.
3. E.C. SHALL REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND/OR ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LIGHT FIXTURE REQUIRED FOR THE CEILING CONSTRUCTION PRIOR TO ORDERING THE FIXTURES AND SHALL PROVIDE FIXTURES THAT ARE COMPATIBLE WITH THE CEILING SYSTEM.
4. ALL LAY-IN TYPE FIXTURES SHALL BE PROVIDED WITH SAFETY CHAINS SUPPORTED FROM STRUCTURE OF THE BUILDING.
5. CONDUIT AND WIRE SIZE FOR EXIT LIGHT AND SECURITY LIGHT CURCUITS ARE NOT SHOWN ON THE DRAWINGS. THE MINIMUM SIZE FOR THESE CIRCUITS SHALL BE #10AWG.
6. ALL EMERGENCY SYSTEM WIRING SHALL BE IN SEPARATE RACEWAY IN ACCORDANCE WITH ARTICLE 700 OF N.E.C.
7. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, MUST BE GROUNDED BY USE OF A PROPERLY SIZED GROUNDING CONDUCTOR. MECHANICAL/ELECTRICAL BONDS OF THE METALIC RACEWAY SYSTEM SHALL ALSO BE MAINTAINED.
8. E.C. SHALL REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT AND LOCATE DISCONNECT SWITCHES IN ACCORDANCE WITH THE N.E.C.
9. E.C. SHALL REFER TO DIV. 15 SPECIFICATIONS, HVAC PLANS AND PLUMBING PLANS FOR ADDITIONAL ELECTRICAL WORK AND REQUIREMENTS.
10. WHERE A FLOOR COVERING OR FINAL FLOOR FINISH IS OTHER THAN CARPET OR VINYL ASBESTOS TILE, CONDUITS SHALL NOT BE RUN WITHIN CONCRETE SLABS. 1" OF CONCRETE OVER THE TOP OF CONDUITS IN SLABS MUST BE MAINTAINED. REFER TO THE SPECIFICATIONS. (1-1/2" OVER IS PREFERRED.)
11. UNLESS OTHERWISE DENOTED, ALL DEVICE ELEVATIONS REFER TO BOTTOM OF OUTLET BOX. (SEE SPECIFICATIONS.) ELECTRICAL CONTRACTOR SHALL VERIFY ALL OUTLET LOCATIONS WITH OTHER TRADES.
12. ALL RECEPTACLES SHOWN BACK-TO-BACK IN WALLS SHALL BE SEPARATED BY 8" MINIMUM.
13. PROVIDE "SEAL-OFFS" WHEN PIPING PASSES THROUGH AREAS OF DIFFERENT AMBIENT TERMPERATURES AND/OR HAZARDOUS AREAS.
14. ALL WIRING FOR FIRE ALARM SYSTEM TO BE IN ACCORD WITH APPROVED MANUFACTURER'S SHOP DRAWINGS. RUN #14 GROUND WIRE TO ALL OUTLETS. CONTACT MANUFACTURER FOR WIRING REQUIREMENTS BEFORE BIDDING.
15. FURNISH AND INSTALL SIX (6) 20 AMP CIRCUITS WITH RECEPTACLES, CONDUIT, WIRE, PLATES, BOXES AND BREAKERS CONNECTED WITH 3#10, 1#12 GROUND IN 1" CONDUIT LOCATED WITHIN 120 CIRCUIT FEET OF NEAREST 208/120 PANEL-BOARD. INCLUDE ALL NECESSARY CUTTING AND PATCHING. LOCATIONS OF OUTLETS SHALL BE WHEN, WHERE AND AS DIRECTED BY THE ARCHITECT/ ENGINEER.
16. FURNISH AND INSTALL ALL LABOR AND MATERIAL NECESSARY TO DISCONNECT AND RETERMINATE ALL 3 PHASE MOTORS, INCLUDING TWO ADDITIONAL SETS OF O.L. HEATERS AND FUSES OF SIZE TO SUIT REPLACEMENT MOTOR, ALL AS APPROVED BY ARCHITECT/ENGINEER.
17. WIRE COMPLETE, WHERE DIRECTED BY ARCHITECT/ENGINEER, TWENTY ADDITIONAL TEMPERATURE CONTROL DEVICES WITH 3#12 IN 3/4"C - 30 CIRCUIT FEET EACH - AVERAGE.



DIM. "A"	30"
DIM. "B"	7'-0"
DIM. "C"	36" SQUARE
VERTICAL STEEL "D"	8 EA. #7 ø
HORIZONTAL STEEL "E"	#4 @15" C/C

NOTE: PROVIDE 3/4 x 10 COPPERWELD GROUND ROD AT EACH POLE (TOP AT 2' BELOW GRADE) AND CONNECT TO POLE WITH 1 #6 IN BONDED 1/2" CONDUIT.

NOTE: TACK WELD ALL ANCHOR BOLT NUTS IN PLACE WHEN POLES ARE SET AND PLUMB.

FOR LIGHT FIXTURE P-2 ONLY

1-E1 ALUMINUM POLE FOUNDATION DETAIL

SCALE: NONE



3-E1 TYPICAL "WC" WIRING

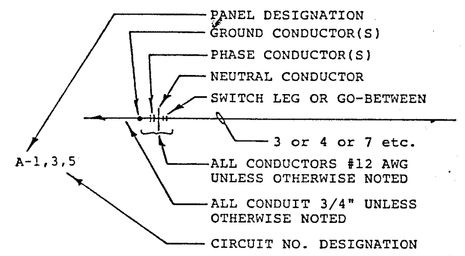
SCALE: NONE

DEMOLITION NOTES

A) THE DIVISION 16 CONTRACTORS SHALL VISIT THE PROJECT AND DETERMINE THE EXTENT OF THE DEMOTION WORK REQUIRED BEFORE BIDDING THE PROJECT.

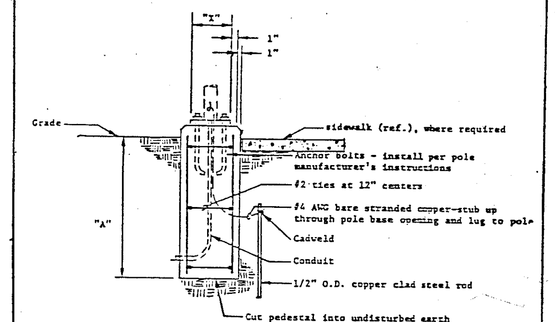
B) E.C. SHALL DISCONNECT AND REMOVE THE ENTIRE ELECTRICAL SYSTEM IN THIS PROJECT AND TURN OVER TO OWNER OR DISPOSE OF OFF SITE ACCORDING TO OWNER'S DESIRE.

C) WHERE WALLS TO REMAIN ARE DAMAGED BY THE REMOVAL OF ANY ELECTRICAL EQUIPMENT, E. C. SHALL PATCH THEM TO MATCH ADJACENT SURFACES.



NOTES
1. #12 AWG IS MIN. CONDUCTOR SIZE, EXCEPT AS NOTED.
2. 3/4" CONDUIT IS MIN. SIZE, EXCEPT AS CAPACITY PERMITTING 24 VOLT CONTROL CONDUCTORS AND SWITCHLEGS MAY BE IN 1/2" SIZE, OTHERS AS NOTED.
3. 1/2" IS MIN. FLEXSTEEL, GREENFIELD, AND SEALITE SIZE.

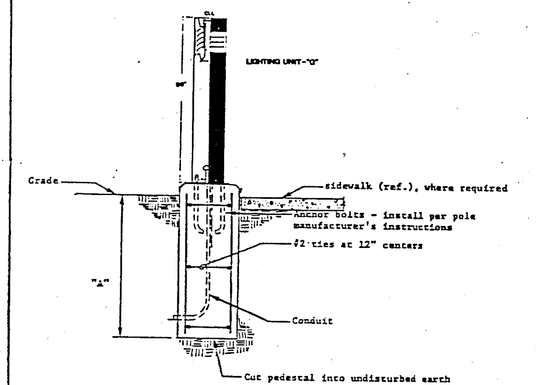
KEY TO ELECTRICAL CIRCUIT WIRING



Dimension "A" — 0.30 times pole height, or 42" minimum.
Dimension "B" — Per pole manufacturer's specifications.

NOTE: Conduits number and size per site plan.
Stub conduits up in pole base opening.
Stub conduits out at depth as specified.

BASE DETAIL
FOR: FIXT P-A ONLY



Dimension "A" — 0.30 times pole height, or 42" minimum.

NOTE: Conduits number and size per site plan.
Stub conduits up in pole base opening.
Stub conduits out at depth as specified.
Top of base 4" above finish grade.

BOLLARD BASE
FOR LIGHT FIXT. B-1

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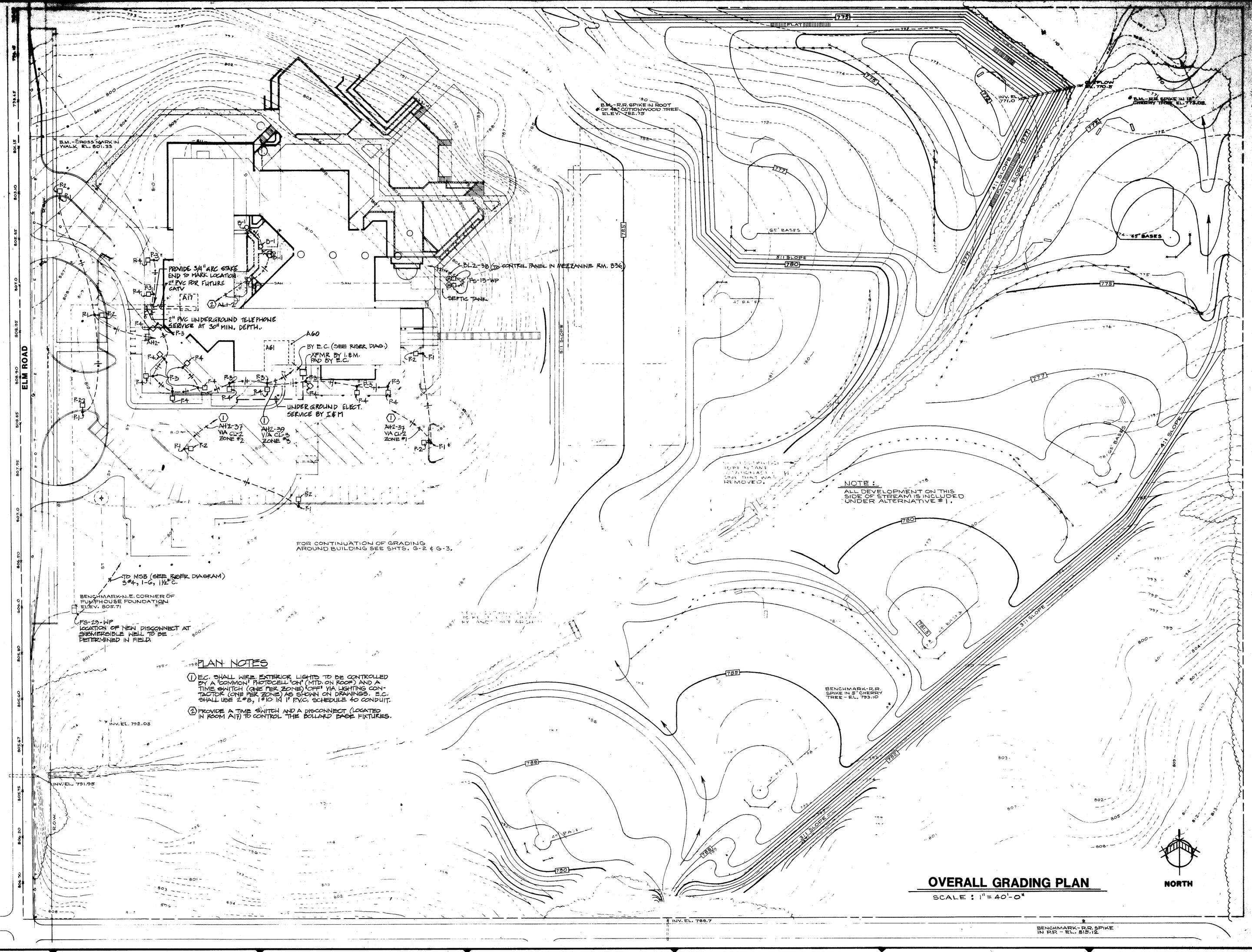
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REVISIONS NO. DATE

E1

ELM ROAD 8455.00



PLAN NOTES

1. E.C. SHALL WIRE EXTERIOR LIGHTS TO BE CONTROLLED BY A COMMON PHOTOCELL 'ON' (MTD. ON ROOF) AND A TIME SWITCH (ONE PER ZONE) 'OFF' VIA LIGHTING CONTACTOR (ONE PER ZONE) AS SHOWN ON DRAWINGS. E.C. SHALL USE 2-#8, #10 IN 1" PVC, SCHEDULE 40 CONDUIT.
2. PROVIDE A TIME SWITCH AND A DISCONNECT (LOCATED IN ROOM A17) TO CONTROL THE BOLLARD BASE FIXTURES.

OVERALL GRADING PLAN

SCALE : 1" = 40'-0"

NORTH

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SITE PLAN

DRAWN BY: JW/AV CONS. NO.:
CHECKED BY: JMH DATE:
REVISIONS NO. DATE

E2

ALL 2'x4' FLUORESCENT LIGHT FIXTURES SHOWN ON THIS PLAN SHALL BE TYPE 'F-3' UNLESS NOTED OTHERWISE.

UNIT B
UNIT A

UP TO MEZZANINE LIGHT FIXTURES.

ALL SUSPENDENT LIGHT FIXTURES SHALL BE MOUNTED AT SAME ELEVATION OF STEEL JOIST IN THIS ROOM UNLESS NOTED OTHERWISE.

PLAN NOTES:

1. REFER TO DETAILS 6-A15 & 11-A15 FOR MOUNTING DETAILS.
2. E.C. SHALL MOUNT LIGHT FIXTURES TO MIGS MECHANICAL EQUIPMENT.

SCALE 1/8" = 1'-0"

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ADDITIONS & ALTERATIONS TO THE
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MISHAWAKA, INDIANA

KEY PLAN

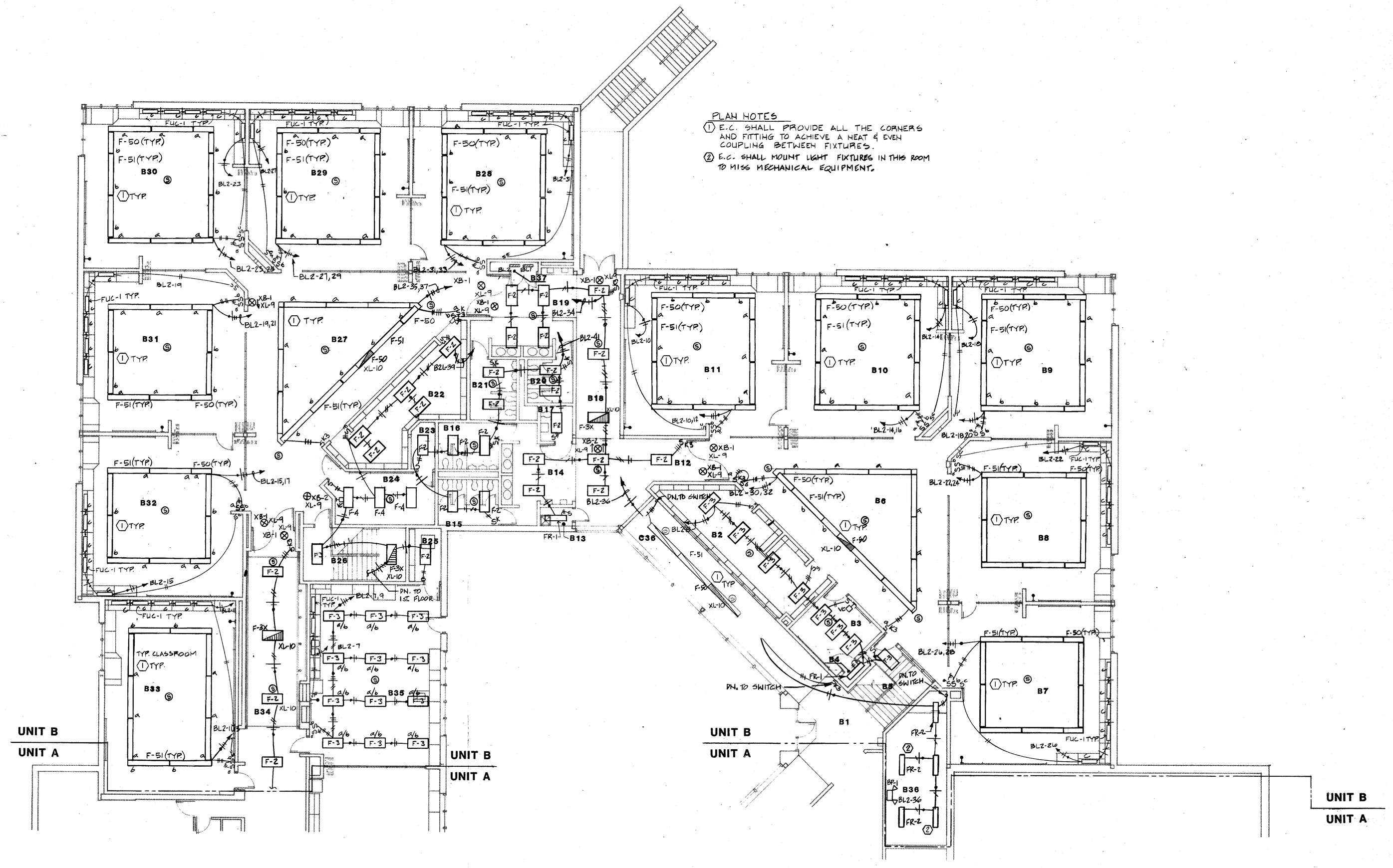
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LIGHTING PLAN UNIT A

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REVISIONS NO. DATE

E3

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SCALE 1/8" = 1'-0"

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MISHAWAKA, INDIANA

KEY PLAN

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LIGHTING PLAN UNIT B

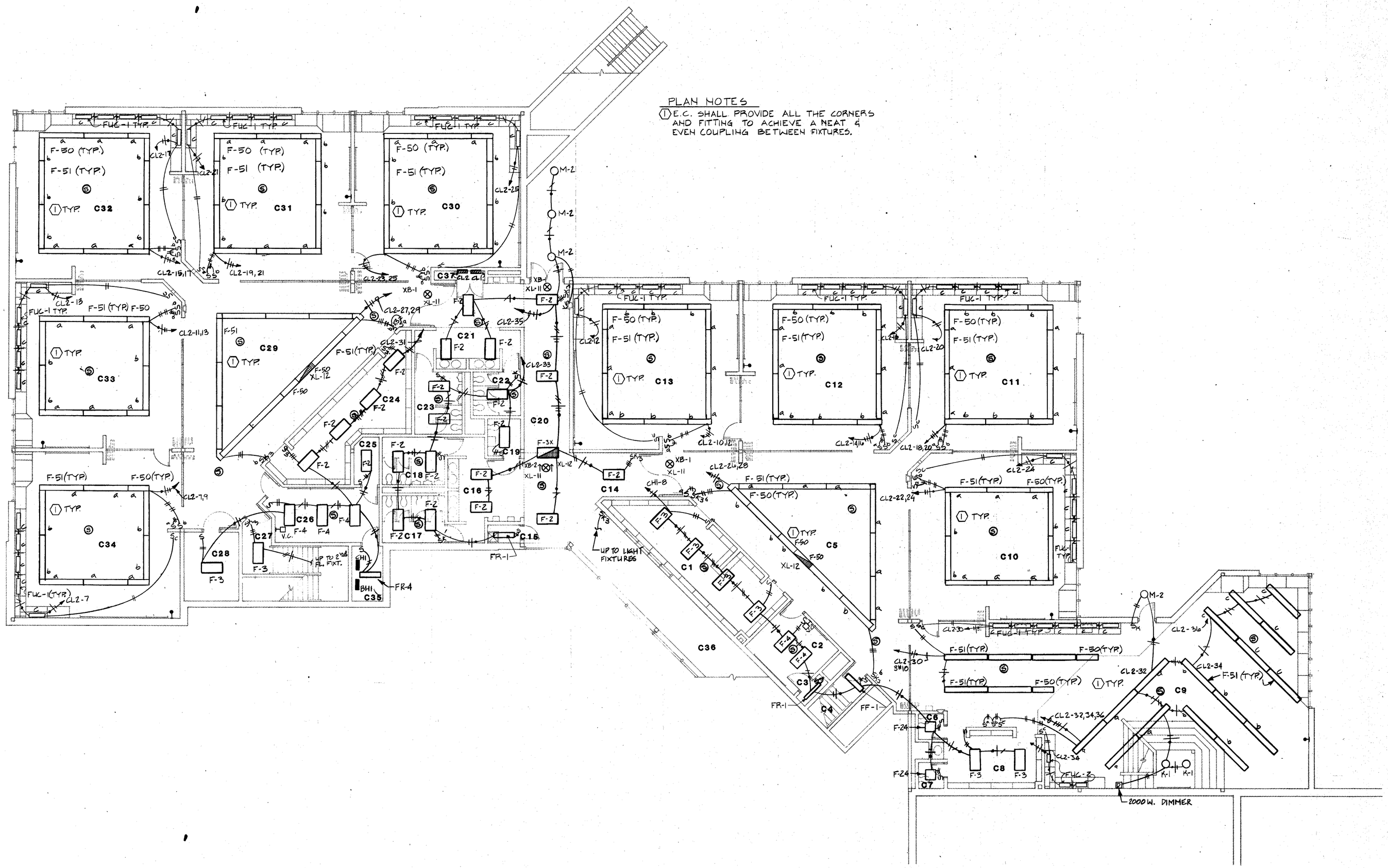
DRAWN BY: MMS COMM. NO.: 8455.00
CHECKED BY: WMH DATE: 11 NOV. 1985
REVISIONS NO. DATE

E4

ELM ROAD 8455.00

PLAN NOTES

1. E.C. SHALL PROVIDE ALL THE CORNERS AND FITTING TO ACHIEVE A NEAT & EVEN COUPLING BETWEEN FIXTURES.



SCALE 1/8" = 1'-0"

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MISHAWAKA, INDIANA

KEY PLAN

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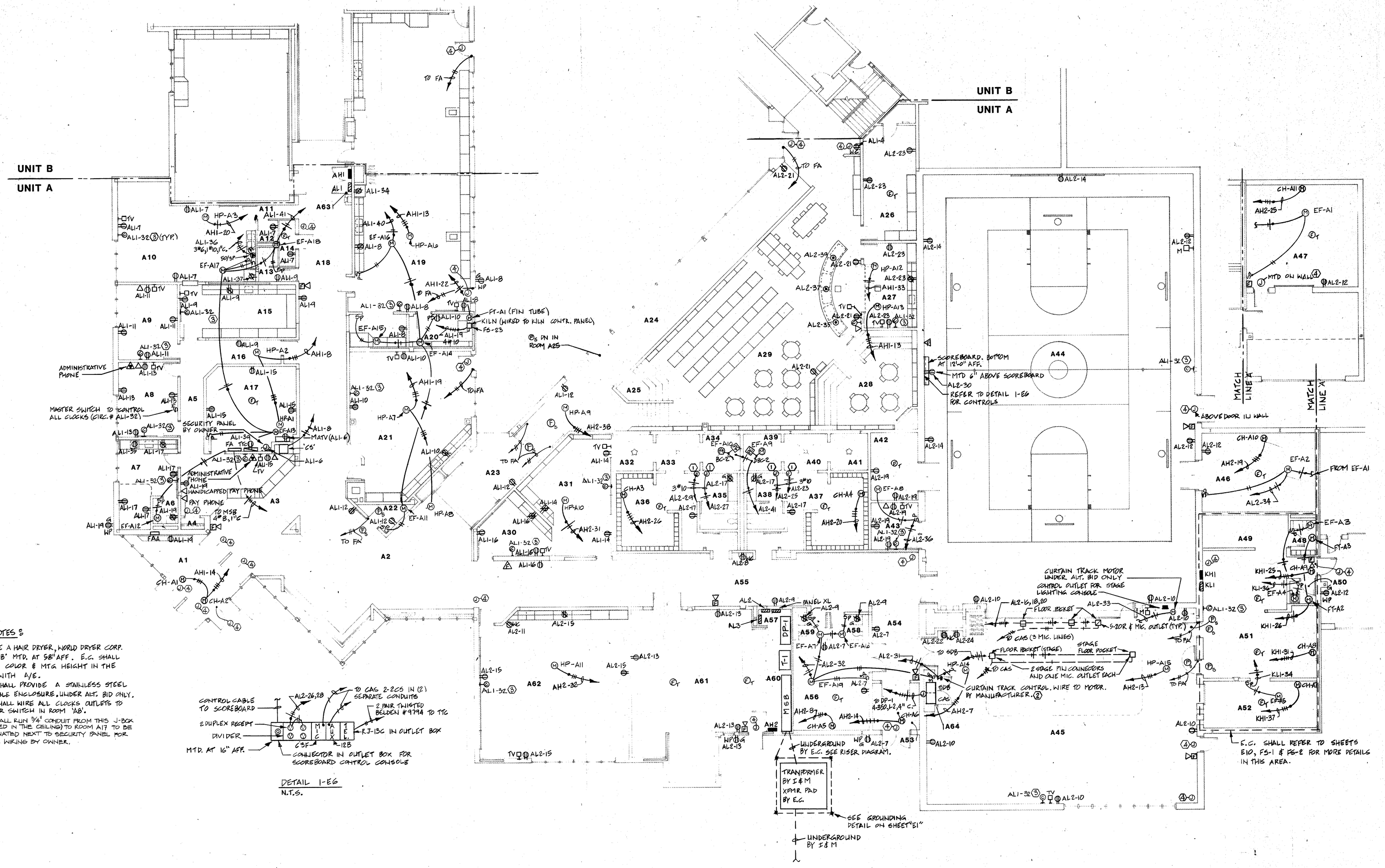
LIGHTING PLAN UNIT C

DRAWN BY: AV/MMS COMM. NO.: 8468.00
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E5

UNIT B

UNIT A



DETAIL 1-E6
N.T.S.

PLAN NOTES:

(1) PROVIDE A HAIR DRYER, WORLD DRYER CORP. MODEL 'B' MTD. AT 58" AFF. E.C. SHALL VERIFY COLOR & MTG HEIGHT IN THE FIELD WITH A/E.

(2) E.C. SHALL PROVIDE A STAINLESS STEEL LOCKABLE ENCLOSURE, UNDER ALT. BID ONLY.

(3) E.C. SHALL WIRE ALL CLOCKS OUTLETS TO MASTER SWITCH IN ROOM 'A8'.

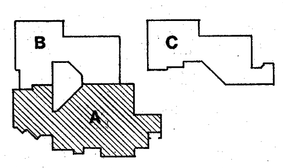
(4) E.C. SHALL RUN 3/4" CONDUIT FROM THIS J-BOX (MOUNTED IN THE CEILING) TO ROOM A17 TO BE TERMINATED NEXT TO SECURITY PANEL FOR FUTURE WIRING BY OWNER.

SCALE 1/8" = 1'-0"

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LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA



KEY PLAN

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

POWER PLAN UNIT A

DRAWN BY: AV | COMM. NO.: 8455.00
CHECKED BY: WMH | DATE: 11 NOV. 1985

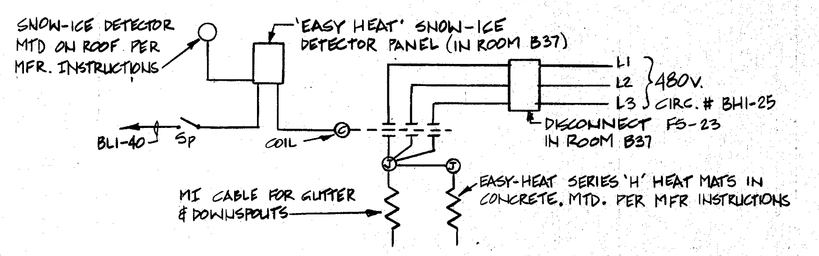
REVISIONS NO. DATE

E6

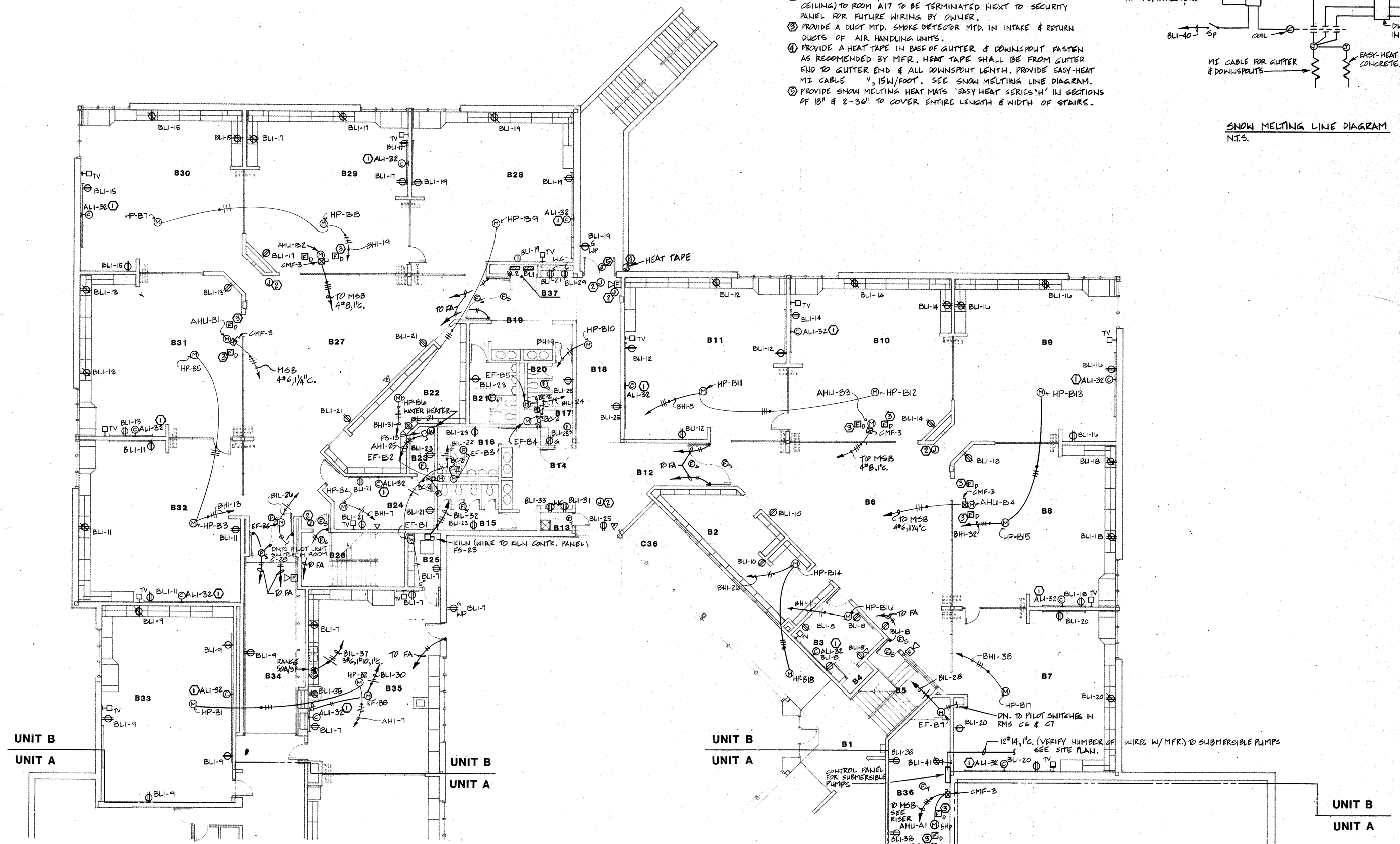
ELM ROAD 8455.00

PLAN NOTES:

1. E.C. SHALL WIRE ALL CLOCK OUTLETS TO MASTER SWITCH LOCATED IN ROOM 'A8'
2. E.C. SHALL RUN 3/4"C. FROM THIS J-BOX (MOUNTED IN THE CEILING) TO ROOM A11 TO BE TERMINATED NEXT TO SECURITY PANEL FOR FUTURE WIRING BY OWNER.
3. PROVIDE A DUCT MTD. SMOKE DETECTOR MTD. IN INTAKE & RETURN DUCTS OF AIR HANDLING UNITS.
4. PROVIDE A HEAT TAPE IN BASE OF GUTTER & DOWNSPOUT FASTEN AS RECOMENDED BY MFR. HEAT TAPE SHALL BE FROM GUTTER END TO GUTTER END & ALL DOWNSPOUT LENTH. PROVIDE EASY-HEAT MI CABLE V, 15W/FOOT. SEE SNOW MELTING LINE DIAGRAM.
5. PROVIDE SNOW MELTING HEAT MATS 'EASY HEAT SERIES 'H' IN SECTIONS OF 18" & 2-36" TO COVER ENTIRE LENGTH & WIDTH OF STAIRS.



SNOW MELTING LINE DIAGRAM
N.T.S.



SCALE 1/8" = 1'-0"

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

KEY PLAN

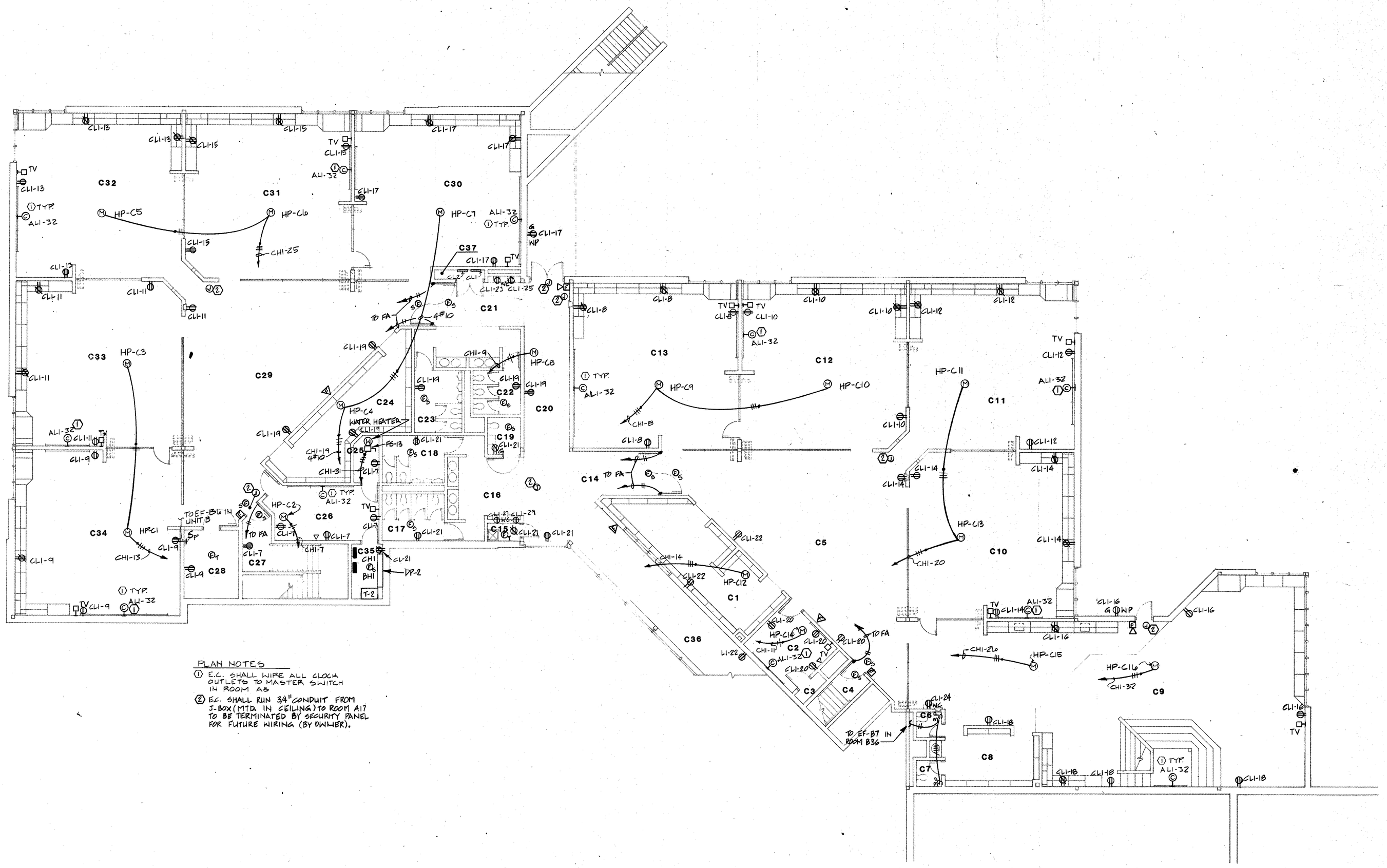
FANNING/HOWEY ASSOCIATES, Inc.
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POWER PLAN UNIT B

DRAWN BY: MMS/AV COMM. NO.: 8455.00
CHECKED BY: WMH DATE: 11 NOV. 1985
REVISIONS NO. DATE

E7

ELM ROAD 8455.00



PLAN NOTES

1. E.C. SHALL WIRE ALL CLOCK OUTLETS TO MASTER SWITCH IN ROOM A8
2. E.C. SHALL RUN 3/4" CONDUIT FROM J-BOX (MTD. IN CEILING) TO ROOM A17 TO BE TERMINATED BY SECURITY PANEL FOR FUTURE WIRING (BY OWNER).

SCALE 1/8" = 1'-0"

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LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

KEY PLAN

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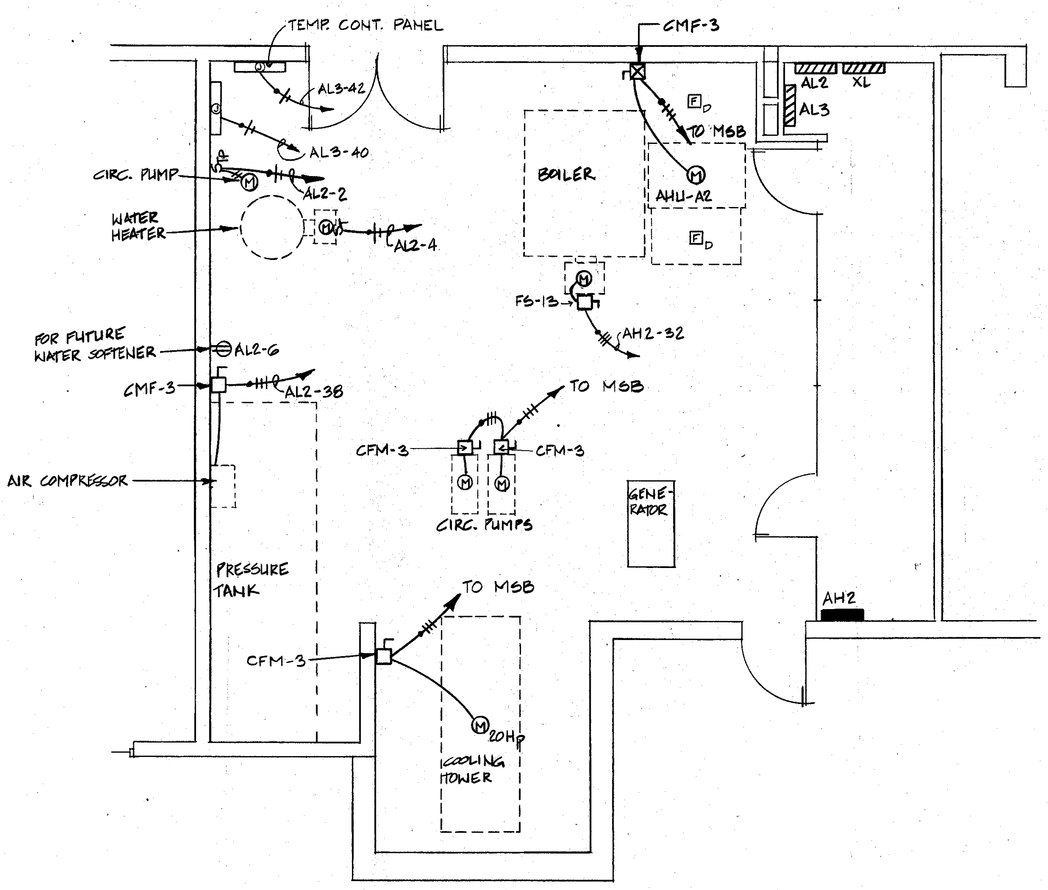
POWER PLAN UNIT C

DRAWN BY: MMS/AV COMM. NO.: 8455.00
CHECKED BY: WMH DATE: 11 NOV. 1985

REVISIONS NO. DATE

E8

ELM ROAD 8455.00

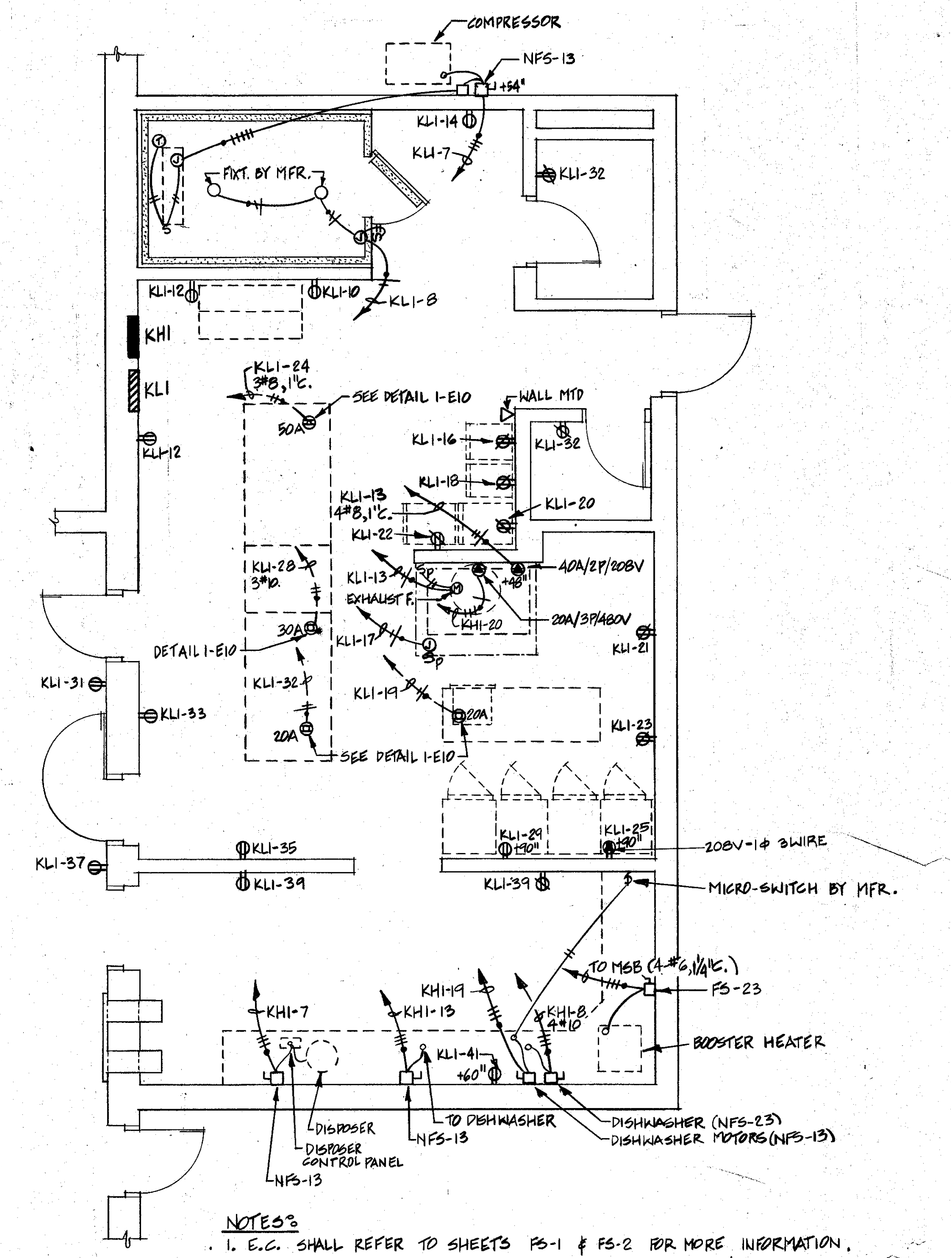


MECHANICAL & ELECTRICAL ROOM

SCALE 1/4" : 1'-0"

NORTH

1-E10 DETAIL 20 / 30 / 50 AMP. ABOVE FLOOR RECEPTACLE



NOTES:

1. E.C. SHALL REFER TO SHEETS FS-1 & FS-2 FOR MORE INFORMATION.

KITCHEN EQUIPMENT ELECTRICAL PLAN

SCALE : 1/4" : 1'-0"

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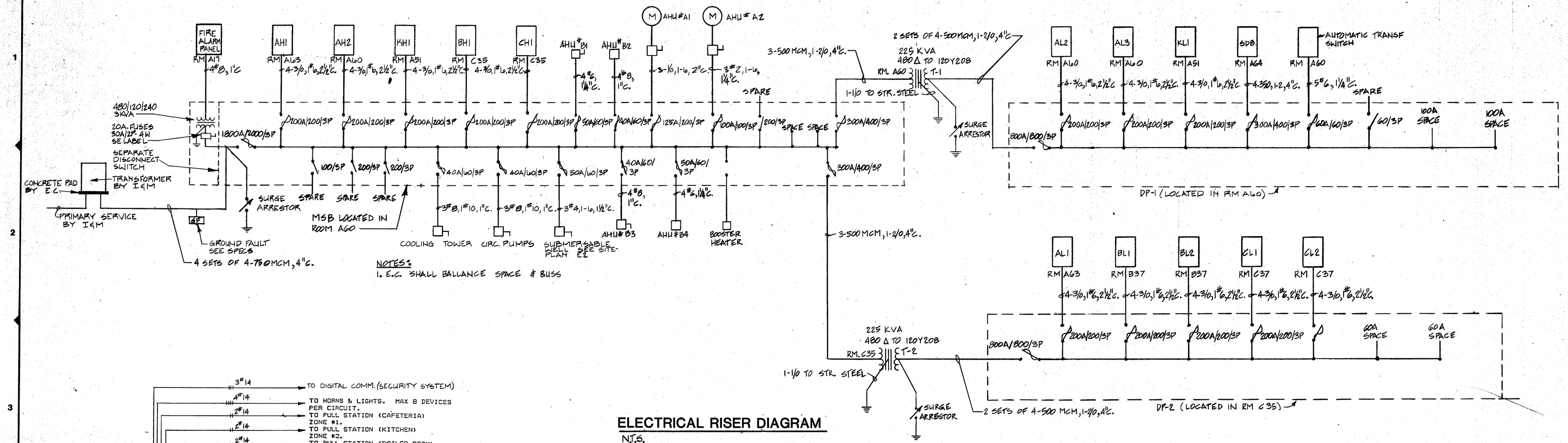
1/4" PLANS

DRAWN BY: MMS/AV COMM. NO.: 8455.00
CHECKED BY: JMH DATE: 11 NOV. 1985

REVISIONS NO. DATE

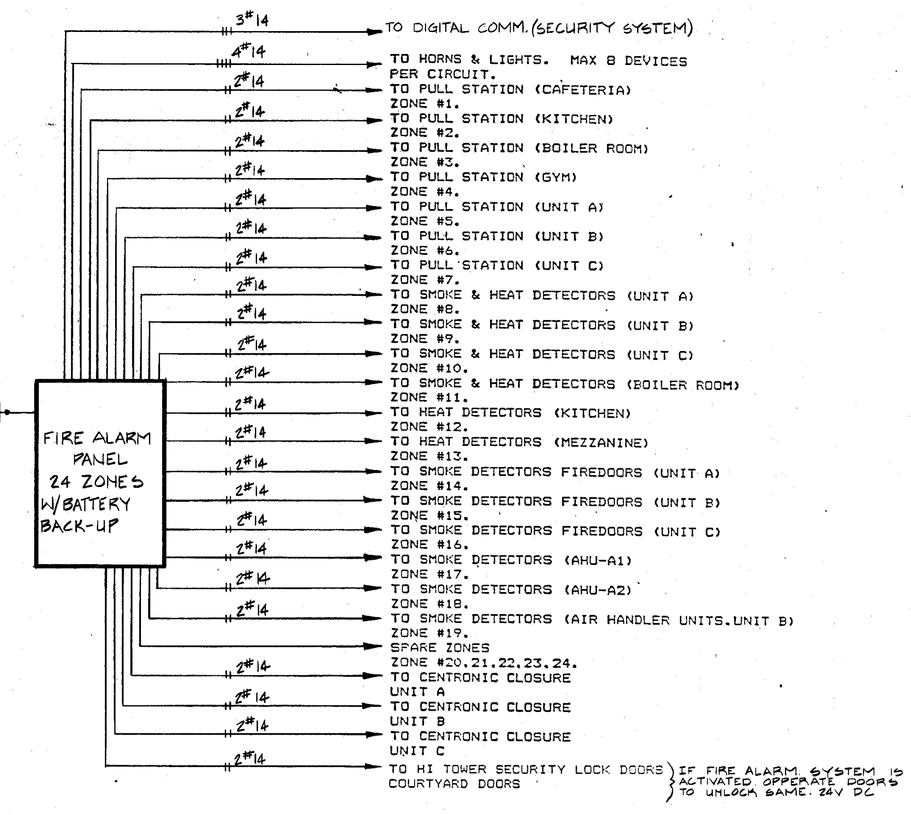
E9

ELM ROAD 8455.00

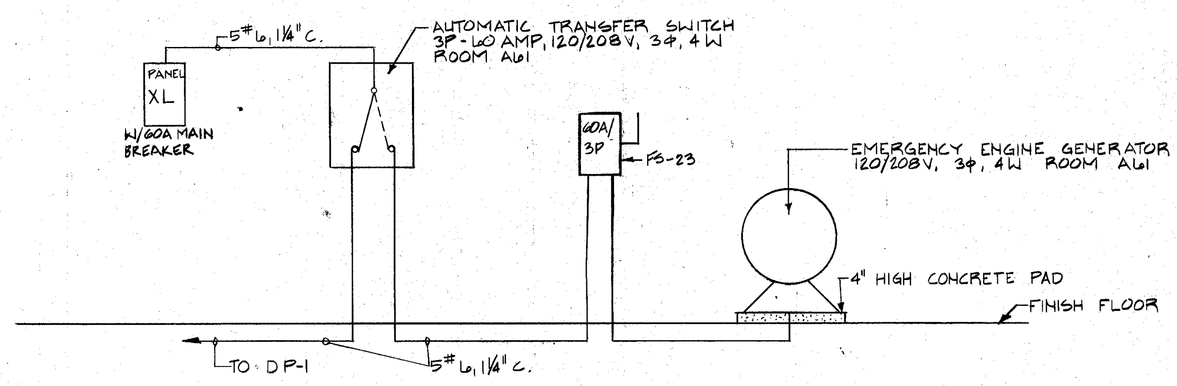


NOTES:
1. E.C. SHALL BALLANCE SPACE & BUSS

ELECTRICAL RISER DIAGRAM
N.T.S.



FIRE ALARM RISER
N.T.S.



EMERGENCY RISER DIAGRAM
N.T.S.

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

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RISER DIAGRAMS

DRAWN BY: MMS/AV COMM. NO.: 8455.00
CHECKED BY: WNH DATE: 11 NOV. 1985
REVISIONS NO. DATE

E10

ELM ROAD 8455.00

DISTRIBUTION PANEL — PLAN TYPE DP-1 — ALL CIR. REG. EQUIP
VOLTS 208/120 — 3 PHASE 4 WIRE — AMP MAINS : 800 — GROUND WIRE

CKT.NO.	FRAME	FUSE	MOTOR	CONNECTED	NO.PH.	WIRE	PLUS	COND.	REMARKS
NO.	PLS.	SIZE	SIZE	H P	K.V.A.	WIRES	SIZE	NEUT.	SIZE	
M	3	800	800		217.0	6	500	12-500	12-4*	MAIN (GMB)
1	3	200	200		37.9	3	3/0	3/0	12.5*	PANEL AL2
2	3	200	200		44.5	3	3/0	3/0	12.5*	PANEL AL3
3	3	200	200		35.7	3	3/0	3/0	12.5*	PANEL KL1
4	3	400	300		90.0	3	350	350	4*	S D B
5	3	60	60		8.9	3	6	6	11.25*	PANEL IL
6	3	60								SPARE
7	3	100								SPACE
8	3	100								SPACE

CONNECTED K.V.A. 217.0
FEED FROM : T-1

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 225
PLAN TYPE : B H 1 — 277/480 NHB SURFACE — ROOM : C35

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
				******				
SPARE	1	20	1	A	2	20	1	SPARE
SPARE	1	20	3	B	4	20	1	SPARE
SPARE	1	20	5	C	6	20	1	SPARE
HEAT PUMP	1	20	7	A	8	20	3	HEAT PUMPS
HEAT PUMP	1	20	9	B	10			
HEAT PUMP	1	20	11	C	12			
HEAT PUMPS	3	20	13	A	14	20	3	SPARE
			15	B	16			
			17	C	18			
HEAT PUMPS	3	20	19	A	20	20	3	SPARE
			21	B	22			
			23	C	24			
HEAT TAPE	3	40	25	A	26	20	3	HEAT PUMPS
			27	B	28			
			29	C	30			
HEAT PUMPS	3	20	31	A	32	20	3	HEAT PUMPS
			33	B	34			
			35	C	36			
SPACE	3	40	37	A	38	20	3	HEAT PUMP
			39	B	40			
			41	C	42			

FEED FROM : MSB
FEED SIZE : 4-3/0. 1-#6. 2.5"C
CONNECTED LOAD KVA : 105.4
PROJECT NAME : ELM ROAD SCHOOL

SWITCHBOARD — PLAN TYPE : M S B — CLASS: (1) ALL CIR. REG. EQUIP.
VOLTS 480/277 — 3 PHASE 4 WIRE — AMP MAINS : 1800 — GROUND WIRE

CKT.NO.	FRAME	FUSE	MOTOR	CONNECTED	NO.PH.	WIRE	PLUS	COND.	REMARKS
NO.	PLS.	SIZE	SIZE	H P	K.V.A.	WIRES	SIZE	NEUT.	SIZE	
M	3	2000	1800		1296.7	12	750	750	15-4*	MAIN + GFI
SA	3					3	1/0	1		SURGE ARR'R.
1	3	200	200		72.0	3	3/0	3/0	12.5*	PANEL AH1
2	3	200	200		112.3	3	3/0	3/0	12.5*	PANEL AH2
3	3	200	200		91.0	3	3/0	3/0	12.5*	PANEL KH1
4	3	200	200		105.4	3	3/0	3/0	12.5*	PANEL BH1
5	3	200	200		107.7	3	3/0	3/0	12.5*	PANEL CH1
6	3	200	125	S	80.3	3	1/0	1/0	2*	AHU-A1
7	3	100	100	1/2	60.0	3	2	2	11.25*	AHU-A2
8	3	100								SPARE
9	3	60	40	20	22.4	3	8	8	1*	COOLING TOWER
10	3	60	40	2-10	22.4	3	8	8	1*	CIRC. PUMP
11	3	60	50	25	28.2	3	4	4	11.5*	SUBMERSIBLE WELL
12	3	60	50		30.0	3	6	6	11.25*	AHU-B1
13	3	60	40		24.0	3	8	8	1*	AHU-B2
14	3	60	40		24.0	3	8	8	1*	AHU-B3
15	3	60	50		27.0	3	6	6	11.25*	AHU-B4
16	3	60	60		40.0	3	6	6	11.25*	BOOSTER HEATER
17	3	400	350		225.0	3	500		4*	TRANSF T-1
18	3	400	350		225.0	3	500		4*	TRANSF T-2
19	3	200	200							SPARE
20	3	200	200							SPARE
21	3	200	200							SPARE
22	3	100								SPACE
23	3	100								SPACE
24										BALL SPACE & BUSS

CONNECTED K.V.A. 1296.7

LIGHT FIXTURE SCHEDULE

PROJECT NAME : ELM ROAD

PLAN TYPE	MANUFACTURER	MOUNTING	LAMPS NO.	LAMPS WATTS	LAMPS TYPE/LU	APPLIED VOLTAGE	REMARKS
F-2	KEENE #NRTF2GVKSH19-240	REC	2	100	F40CW 3150	120	2'X4' LAY-IN TROFFER WITH ALUM. DOOR FRAME, KSH19 ACRYLIC PRISMATIC LENS
F-3 OR F-3X	KEENE #NRTF2GVKSH19-340	REC	3	150	F40CW 3150	120	2'X4' LAY-IN TROFFER WITH ALUM. DOOR FRAME, KSH9 ACRYLIC PRISMATIC LENS
F-4	KEENE #NRTF2GVKSH19-440	REC	4	200	F40CW 3150	120	2'X4' LAY-IN TROFFER WITH ALUM. DOOR FRAME, KSH9 ACRYLIC PRISMATIC LENS
IF-50	STERNER CS66-F4-800-DS-AS-X-PM LAM LS2H-800-X-PM	SUSP	2	120	F48T12CW -HO 4500	120	INDIRECT FLUOR. FIXTURE MOUNTED 18" BELOW CEILING (MINIMUM)
IF-51	STERNER CS66-F8-800-DS-AS-X-PM LAM LS2H-800-X-PM	SUSP	2	240	F96T12CW -HO 9200	120	INDIRECT FLUOR. FIXTURE MOUNTED 18" BELOW CEILING (MINIMUM)
FF-1	KEENE #NRTF1FVKSH19-240		2	100	F40CW 3150	120	1'X4' FLANGE FLUOR. FIXT. WITH ALUM. DOOR FRAME, KSH-19 ACRYLIC PRISMATIC LENS
FF-24	KEENE #NRTF2FVKSH19-4-20W	REC FLANGE	4	100	F20T12CW 1250	120	2'X2' FLANGE FLUOR FIXT. WITH ALUM. DOOR FRAME, KSH-19 LENS, WITH 4-20W LAMPS
FR-1	WILLIAMS BP20-DR	SURF/SUSP	1	50	F40CW 3150	120	4' WRAPAROUND FLUOR FIXT.
FR-2	KEENE WN 240	SURF/SUSP	2	100	F40CW 3150	120	4' WRAPAROUND FLUOR FIXT.
FR-4	WILLIAMS 1824-A	SURF/SUSP	4	200	F40CW 3150	120	4' WRAPAROUND FLUOR FIXT.
FS-2	WILLIAMS 7622	SURF	2	100	F40CW 3150	120	STRIP LIGHT WITH ONE REFLECTOR ON ONE SIDE ONLY
FUC-1	ALKCO SF-215-S	UNDER COUNTER	1	40	F30T8/CW 2200	120	13" UNDER COUNTER FLUOR. FIXT.
FUC-2	ALKCO SF-115-S	UNDER COUNTER	1	20	F15T8/CW 870	120	12" UNDER COUNTER FLUOR. FIXT.
FW-2	INDY LIGHTING F61-24246-1TAK1 MORRIS KURT. VEC-2440-T	REC	2	100	F40CW 3150	120	2'X4' LAY-IN FLUOR. FIXT. WITH ACRYLIC PRISMATIC LENS FOR WET LOCATION
FW-4	MORRIS KURT. VEC-2440-T INDY LIGHTING F61-24446-1TAK1	REC	4	100	F40CW 3150	120	2'X4' LAY-IN FLUOR. FIXT. WITH ACRYLIC PRISMATIC LENS FOR WET LOCATION
FWF-1	MORRIS KURT. V-7872-40-T INDY LIGHTING F61-1424F-1TAK1	REC FLANGE	2	100	F40CW 3150	120	1'X4' FLANGE FLUOR. FIXT. WITH ACRYLIC PRISMATIC LENS FOR WET LOCATION
T-1	MARCO T1650 SERIES	MTD ON TRACK	2 EA.	75	75R30/FL 990	130	FIXTURE MTD. ON TRACK SYSTEM WITH WHITE FINISH
T-2	MARCO T1650 SERIES	SURF.	---	---	---	130	TRACK LENGTH PER DRAWINGS PROVIDE ALL REQ'D. FITTINGS. WHITE FINISH.
K-1	MARCO D401274	REC	1 MAX	200	200PS25/ 1991FJIL 3220	130	DOWN LIGHT WITH CLEAR REFLECTOR & BAFFLE
K-2	HOLOPHANE #PAL-300-IN-MFGB	REC	1 MAX	300	300/IF 5820	130	DOWN LIGHT WITH LENS
K-3	HOLOPHANE F6RL-PRSL35A-WG	SUSP.	1 MAX	500	500/IF 10850	130	DOWN LIGHT WITH WIRE GUARD
P-1	STERNER RTA20-B (TAPERED POLE)	---	---	---	---	---	35' ALUMINUM POLE WITH SAME FINISH AS FIXTURE P-2
P-2	STERNER MG25E10-400M277P	POLE	1	465	MVR 400 / I.G. 36000	277	400 WMH WITH SQUARE DISTRIBUTION MOUNTED ON POLE P-1
P-3	STERNER RTA06-B	---	---	---	---	---	112' ALUMINUM POLE WITH SAME FINISH AS FIXTURE P-4
P-4	STERNER MG19E10-175M277P	POLE	1	200	MVR 175/U 14000	277	175M MH WITH ASYMETRIC DISTRIBUTION. MOUNTED ON POLE P-3
R-1	HOLOPHANE PRSL400MH2TQ2835-08214-5-MT-WG	SUSP	1	465	M3T400/BU ONLY 40000	208	HI BAY INDUSTRIAL W/ SAFETY CHAIN \ WIRE GUARD
R-2	MARCO MR306753	REC	1	125	MR1000SX1B 4200	120	MERCURY VAPOR DOWN LIGHT FIXTURE W/ MINI-BAFFLE
B-1	KIM 830-205/BL-E CROUSEHINDS BDR-100HCW	FLOOR	1	125	MR1000SX1B 4200	120	18" ROUND BOLLARD FIXTURE DARK BRONZE FINISH. SEE MTG. DETAIL.
EP-1	DUAL LIGHT EZ-2R	WALL	2	18	BY MANU- FACTURER	120	DOUBLE HEAD EMERGENCY PACK W/ LONG LIFE LEAD BATT. & SPECTRON SYSTEM
EU-1	DUAL LIGHT I-1100.2100 SERIES	WALL	2	15	1576.5	120	SINGLE OR DOUBLE FACE, UNIVER. MTG. & UNIVER. ARROWS. POWER BY EMERGENCY PANEL
EU-2	DUAL LIGHT I-1100. 2100 SERIES	CEILING	2	15	1576.5	120	SINGLE OR DOUBLE FACE, UNIVER. MTG. & UNIVER. ARROWS. POWER BY EMERGENCY PANEL.

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 225
PLAN TYPE : A L 2 — 120/208 NLAB SURFACE — ROOM : A60

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
				******				
SPARE	1	20	1	A	2	20	1	CIRC PUMP
SPARE	1	20	3	B	4	20	1	WATER HEATER
SPARE	1	20	5	C	6	20	1	WATER SOFT
RECEPT.	1	20	7	A	8	20	1	W.C.
RECEPT.	1	20	9	B	10	20	1	RECEPT.
W.C.	1	20	11	C	12	20	1	RECEPT.
RECEPT.	1	20	13	A	14	20	1	RECEPT.
RECEPT.	1	20	15	B	16	20	1	APRON POCKET
RECEPT.	1	20	17	C	18	20	1	APRON POCKET
RECEPT.	1	20	19	A	20	20	1	APRON POCKET
RECEPT.	1	20	21	B	22	20	1	W.C.
RECEPT.	1	20	23	C	24	20	1	W.C.
HAIR DRYER	1	30	25	A	26	20	1	RECEPT.
HAIR DRYER	1	30	27	B	28	20	1	RECEPT.
HAIR DRYER	1	30	29	C	30	20	1	SCOREBOARD
HAIR DRYER	1	30	31	A	32	20	1	EF's
CURTAIN TRACK	1	20	33	B	34	20	1	EF's
RECEPT.	1	20	35	C	36	20	1	EF
RECEPT.	1	20	37	A	38	20	3	AIR COMP
RECEPT.	1	20	39	B	40			
EF's	1	20	41	C	42			

FEED FROM : DP-1
FEED SIZE : 4-3/0. 1-#6. 2.5"C
CONNECTED LOAD KVA : 37.9
PROJECT NAME : ELM ROAD SCHOOL

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 225
PLAN TYPE : C H 1 — 277/480 NHB SURFACE — ROOM : C35

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
				******				
SPARE	1	20	1	A	2	20	1	SPARE
SPARE	1	20	3	B	4	20	1	SPARE
SPARE	1	20	5	C	6	20	1	SPARE
HEAT PUMP	1	20	7	A	8	20	3	HEAT PUMPS
HEAT PUMP	1	20	9	B	10			
HEAT PUMP	1	20	11	C	12			
HEAT PUMPS	3	20	13	A	14	20	3	HEAT PUMP
			15	B	16			
			17	C	18			
HEAT PUMPS	3	30	19	A	20	20	3	HEAT PUMPS
			21	B	22			
			23	C	24			
HEAT PUMPS	3	20	25	A	26	20	3	HEAT PUMP
			27	B	28			
			29	C	30			
WATER HEATER	3	20	31	A	32	20	3	HEAT PUMP
			33	B	34			
			35	C	36			
SPARE	3	20	37	A	38			SPACE
			39	B	40			SPACE
			41	C	42			SPACE

FEED FROM : MSB
FEED SIZE : 4-3/0. 1-#6. 2.5"C
CONNECTED LOAD KVA : 107.7
PROJECT NAME : ELM ROAD SCHOOL

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 225
PLAN TYPE : A H 1 — 277/480 NHB — ROOM : A63

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
				******				
SPARE	1	20	1	A	2	20	1	SPARE
SPARE	1	20	3	B	4	20	1	SPARE
SPARE	1	20	5	C	6	20	1	SPARE
HEAT PUMP	3	20	7	A	8	20	3	HEAT PUMP
			9	B	10			
			11	C	12			
HEAT PUMP	3	20	13	A	14	20	3	CAB. HEATERS
			15	B	16			
			17	C	18			
HEAT PUMP	3	20	19	A	20	20	1	HEAT PUMP
			21	B	22	20	1	FIN TUBE
			23	C	24	20	1	SPARE
WATER HEATER	3	20	25	A	26	20	3	SPARE
			27	B	28			
			29	C	30			
SPACE			31	A	32			SPACE
SPACE			33	B	34			SPACE
SPACE			35	C	36			SPACE
SPACE			37	A	38			SPACE
SPACE			39	B	40			SPACE
SPACE			41	C	42			SPACE

FEED FROM : MSB
FEED SIZE : 4-3/0. 1-#6. 2.5"C
CONNECTED LOAD KVA : 72.0
PROJECT NAME : ELM ROAD SCHOOL

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 225
PLAN TYPE : A L 3 — 120/208 NLAB SURFACE — ROOM : A60

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
				******				
SPARE	1	20	1	A	2	20	1	SPARE
SPARE	1	20	3	B	4	20	1	SPARE
SPARE	1	20	5	C	6	20	1	SPARE
LIGHT	1	20	7	A	8	20	1	LIGHT
LIGHT	1	20	9	B	10	20	1	LIGHT
LIGHT	1	20	11	C	12	20	1	LIGHT
LIGHT	1	20	13	A	14	20	1	LIGHT
LIGHT	1	20	15	B	16	20	1	LIGHT
LIGHT	1	20	17	C	18	20	1	LIGHT
LIGHT	1	20	19	A	20	20	2	GYM LIGHTS
LIGHT	1	20	21	B	22			
LIGHT	1	20	23	C	24	20	2	GYM LIGHTS
LIGHT	1	20	25	A	26			
LIGHT	1	20	27	B	28	20	2	GYM LIGHTS
LIGHT	1	20	29	C	30			
LIGHT	1	20	31	A	32	20	2	GYM LIGHTS
LIGHT	1	20	33	B	34			
LIGHT	1	20	35	C	36	20	1	LIGHTS
SPACE			37	A	38	20	1	LIGHTS
SPACE			39	B	40	20	1	TEMP. PANEL
SPACE			41	C	42	20	1	TEMP. PANEL

FEED FROM : DP-1
FEED SIZE : 4-3/0. 1-#6. 2.5"C
CONNECTED LOAD KVA : 44.5
PROJECT NAME : ELM ROAD SCHOOL

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 225
PLAN TYPE : K H 1 — 277/480 NLAB FLUSH — ROOM : A51

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
				******				
SPARE	1	20	1	A	2	20	1	SPARE
SPARE	1	20	3	B	4	20	1	SPARE
SPARE	1	20	5	C	6	20	1	SPARE
DISPOSER	3	20	7	A	8	40	3	DISHWASHER
			9	B	10			
			11	C	12			
DISHWASHER	3	20	13	A	14	20	3	SPARE
			15	B	16			
			17	C	18			
DISHWASHER MOTORS	3	30	19	A	20	20	3	RANGE
			21	B	22			
			23	C	24			
CAB HEATER	3	20	25	A	26	20	1	FIN TUBES
			27	B	28	20	1	SPARE
			29	C	30	20	1	SPARE
CAB HEATER	3	20	31	A	32	20	3	SPARE
			33	B	34			
			35	C	36			
CAB HEATER	3	20	37	A	38			SPACE
			39	B	40			SPACE
			41	C	42			SPACE

FEED FROM : MSB
FEED SIZE : 4-3/0. 1-#6. 2.5"C
CONNECTED LOAD KVA : 91.0
PROJECT NAME : ELM ROAD SCHOOL

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 225
PLAN TYPE : A H 2 — 277/480 NHB SURFACE — ROOM : A60

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
				******				
SPARE	1	20	1	A	2	20	1	SPARE
SPARE	1	20	3	B	4	20	1	SPARE
SPARE	1	20	5	C	6	20	1	SPARE
HEAT PUMP	3	20	7	A	8	20	3	CAB. HEATER
			9	B	10			
			11	C	12			
HEAT PUMP	3	20	13	A	14	20	3	CAB. HEATER
			15	B	16			
			17	C	18			
CAB. HEATER	3	20	19	A	20	20	3	CAB. HEATER
			21	B	22			
			23	C	24			
CAB. HEATER	3	20	25	A	26	20	3	CAB. HEATER
			27	B	28			
			29	C	30			
HEAT PUMP	1	20	31	A	32	20	3	HEAT PUMP
HEAT PUMP	1	20	33	B	34			
SPARE	1	20	35	C	36			
EXT. LTS	1	20	37	A	38	20	3	HEAT PUMP
EXT. LTS	1	20	39	B	40			
EXT. LTS	1	20	41	C	42			

FEED FROM : MSB
FEED SIZE : 4-3/0. 1-#6. 2.5"C
CONNECTED LOAD KVA : 112.3
PROJECT NAME : ELM ROAD SCHOOL

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ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

FIXTURE & PANELBOARD SCHEDULES

DRAWN BY: A V — COMM. NO.: 8455.00
CHECKED BY: W MH — DATE: 11 NOV. 1985

REVISIONS NO. DATE

E11

ELM ROAD 8455.00

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 225
PLAN TYPE : C L 1 — 120/208 NLAB SURFACE — ROOM : C37

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
SPARE	1	20	1	A	2	20	1	SPARE
SPARE	1	20	3	B	4	20	1	SPARE
SPARE	1	20	5	C	6	20	1	SPARE
RECEPT.	1	20	7	A	8	20	1	RECEPT.
RECEPT.	1	20	9	B	10	20	1	RECEPT.
RECEPT.	1	20	11	C	12	20	1	RECEPT.
RECEPT.	1	20	13	A	14	20	1	RECEPT.
RECEPT.	1	20	15	B	16	20	1	RECEPT.
RECEPT.	1	20	17	C	18	20	1	RECEPT.
RECEPT.	1	20	19	A	20	20	1	RECEPT.
RECEPT.	1	20	21	B	22	20	1	RECEPT.
W.C.	1	20	23	C	24	20	1	W.C.
W.C.	1	20	25	A	26			SPACE
W.C.	1	20	27	B	28			SPACE
W.C.	1	20	29	C	30			SPACE
SPACE			31	A	32			SPACE
SPACE			33	B	34			SPACE
SPACE			35	C	36			SPACE
SPACE			37	A	38			SPACE
SPACE			39	B	40			SPACE
SPACE			41	C	42			SPACE

FEED FROM : DP-2
FEED SIZE : 4-3/1. 1-6. 2.5"C — PROJECT NAME : ELM ROAD SCHOOL
CONNECTED LOAD KVA :
23.6

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 225
PLAN TYPE : A L 1 — 120/208 NLAB SURFACE — ROOM : A63

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
SPARE	1	20	1	A	2	20	1	LIGHTS
SPARE	1	20	3	B	4	20	1	W.C.
SPARE	1	20	5	C	6	20	1	MATV
RECEPT.	1	20	7	A	8	20	1	RECEPT.
RECEPT.	1	20	9	B	10	20	1	RECEPT.
RECEPT.	1	20	11	C	12	20	1	RECEPT.
RECEPT.	1	20	13	A	14	20	1	RECEPT.
RECEPT.	1	20	15	B	16	20	1	RECEPT.
RECEPT.	1	20	17	C	18	20	1	CENT. SOUND
KILN	3	40	19	A	20	20	1	LIGHT
			21	B	22	20	1	LIGHT
			23	C	24	20	1	LIGHT
LIGHTS	1	20	25	A	26	20	1	LIGHT
LIGHTS	1	20	27	B	28	20	1	LIGHT
LIGHTS	1	20	29	C	30	20	1	LIGHT
LIGHTS	1	20	31	A	32	20	1	CLOCKS
LIGHTS	1	20	33	B	34	20	1	REFRIG
REFRIG	1	20	35	C	36	50	2	RANGE
REFRIG	1	20	37	A	38			
TTC	1	20	39	B	40	20	1	EF'S
EF's	1	20	41	C	42	20	1	SEC. SYST.

FEED FROM : DP-2
FEED SIZE : 4-3/0. 1-6. 2.5"C — PROJECT NAME : ELM ROAD SCHOOL
CONNECTED LOAD KVA :
49.4

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 225
PLAN TYPE : K L 1 — 120/208 NLAB FLUSH — ROOM : A51

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
SPARE	1	20	1	A	2	20	1	SPARE
SPARE	1	20	3	B	4	20	1	SPARE
SPARE	1	20	5	C	6	20	1	SPARE
COMPRESSOR	3	20	7	A	8	20	1	FREEZER LIGHTS
			9	B	10	20	1	MILK COOLER
			11	C	12	20	1	RECEPT.
HOT PLATE	2	40	13	A	14	20	1	RECEPT.
			15	B	16	20	1	RECEPT.
HOOD LIGHTS	1	20	17	C	18	20	1	RECEPT.
RECEPT.	1	20	19	A	20	20	1	RECEPT.
RECEPT.	1	20	21	B	22	20	1	RECEPT.
RECEPT.	1	20	23	C	24	50	2	HOT FOOD
FREEZER	2	20	25	A	26			COUNTER
			27	B	28	30	2	HOT/COOL
REFRIGE.	1	20	29	C	30			COUNTER
RECEPT.	1	20	31	A	32	20	1	RECEPT.
RECEPT.	1	20	33	B	34	20	1	EF-A5
RECEPT.	1	20	35	C	36	20	1	EF
RECEPT.	1	20	37	A	38	20	1	SPARE
RECEPT.	1	20	39	B	40	20	1	SPARE
RECEPT.	1	20	41	C	42	20	1	SPARE

FEED FROM : DP-1
FEED SIZE : 4-3/0. 1-6. 2.5"C — PROJECT NAME : ELM ROAD SCHOOL
CONNECTED LOAD KVA :
35.7

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 225
PLAN TYPE : C L 2 — 120/208 NLAB SURFACE — ROOM : C37

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
SPARE	1	20	1	A	2	20	1	SPARE
SPARE	1	20	3	B	4	20	1	SPARE
SPARE	1	20	5	C	6	20	1	SPARE
LIGHT	1	20	7	A	8	20	1	LIGHT
LIGHT	1	20	9	B	10	20	1	LIGHT
LIGHT	1	20	11	C	12	20	1	LIGHT
LIGHT	1	20	13	A	14	20	1	LIGHT
LIGHT	1	20	15	B	16	20	1	LIGHT
LIGHT	1	20	17	C	18	20	1	LIGHT
LIGHT	1	20	19	A	20	20	1	LIGHT
LIGHT	1	20	21	B	22	20	1	LIGHT
LIGHT	1	20	23	C	24	20	1	LIGHT
LIGHT	1	20	25	A	26	20	1	LIGHT
LIGHT	1	20	27	B	28	20	1	LIGHT
LIGHT	1	20	29	C	30	20	1	LIGHT
LIGHT	1	20	31	A	32	20	1	LIGHT
LIGHT	1	20	33	B	34	20	1	LIGHT
LIGHT	1	20	35	C	36	20	1	LIGHT
SPACE			37	A	38			SPACE
SPACE			39	B	40			SPACE
SPACE			41	C	42			SPACE

FEED FROM : DP-2
FEED SIZE : 4-3/0. 1-6. 2.5"C — PROJECT NAME : ELM ROAD SCHOOL
CONNECTED LOAD KVA :
39.3

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 225
PLAN TYPE : B L 1 — 120/208 NLAB SURFACE — ROOM : B37

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
SPARE	1	20	1	A	2	20	1	SPARE
SPARE	1	20	3	B	4	20	1	SPARE
SPARE	1	20	5	C	6	20	1	SPARE
RECEPT.	1	20	7	A	8	20	1	RECEPT.
RECEPT.	1	20	9	B	10	20	1	RECEPT.
RECEPT.	1	20	11	C	12	20	1	RECEPT.
RECEPT.	1	20	13	A	14	20	1	RECEPT.
RECEPT.	1	20	15	B	16	20	1	RECEPT.
RECEPT.	1	20	17	C	18	20	1	RECEPT.
RECEPT.	1	20	19	A	20	20	1	RECEPT.
RECEPT.	1	20	21	B	22	20	1	EXHAUST FANS
RECEPT.	1	20	23	C	24	20	1	EXHAUST FANS
RECEPT.	1	20	25	A	26	20	1	EXHAUST FAN
W.C.	1	20	27	B	28	20	1	EXHAUST FAN
W.C.	1	20	29	C	30	20	1	EXHAUST FAN
W.C.	1	20	31	A	32	40	3	KILN
W.C.	1	20	33	B	34			
REFRIG.	1	20	35	C	36			
RANGE	2	50	37	A	38	20	1	RECEPT
			39	B	40	20	1	SNOW PANEL
RECEPT	1	20	41	C	42	20	1	SPARE

FEED FROM : DP-2
FEED SIZE : 4-3/0. 1-6. 2.5"C — PROJECT NAME : ELM ROAD SCHOOL
CONNECTED LOAD KVA :
44.5

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 100
PLAN TYPE : X L — 120/208 NLAB SURFACE — ROOM : A60

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
SPARE	1	20	1	A	2	20	1	SPARE
SPARE	1	20	3	B	4	20	1	SPARE
SPARE	1	20	5	C	6	20	1	SPARE
EXIT LTS (A)	1	20	7	A	8	20	1	NIGHT LTS (A)
EXIT LTS (B)	1	20	9	B	10	20	1	NIGHT LTS (B)
EXIT LTS (C)	1	20	11	C	12	20	1	NIGHT LTS (C)
SPACE			13	A	14			SPACE
SPACE			15	B	16			SPACE
SPACE			17	C	18			SPACE

FEED FROM : DP-THRU AUTOTRANS SWITCH
FEED SIZE : 5#6. 1.25"C — PROJECT NAME : ELM ROAD SCHOOL
CONNECTED LOAD KVA :
8.9

PANELBOARD — VOLTAGE: 3PH.4 WIRE + GRD — AMPS: 225
PLAN TYPE : B L 2 — 120/208 NLAB FLUSH — ROOM : B37

LOAD DESCRIPTION	C/B POLES	C/B AMPS	CIR. NO.	PHASE	CIR. NO.	C/B AMPS	C/B POLES	LOAD DESCRIPTION
SPARE	1	20	1	A	2	20	1	SPARE
SPARE	1	20	3	B	4	20	1	SPARE
SPARE	1	20	5	C	6	20	1	SPARE
LIGHT	1	20	7	A	8	20	1	LIGHT
LIGHT	1	20	9	B	10	20	1	LIGHT
LIGHT	1	20	11	C	12	20	1	LIGHT
LIGHT	1	20	13	A	14	20	1	LIGHT
LIGHT	1	20	15	B	16	20	1	LIGHT
LIGHT	1	20	17	C	18	20	1	LIGHT
LIGHT	1	20	19	A	20	20	1	LIGHT
LIGHT	1	20	21	B	22	20	1	LIGHT
LIGHT	1	20	23	C	24	20	1	LIGHT
LIGHT	1	20	25	A	26	20	1	LIGHT
LIGHT	1	20	27	B	28	20	1	LIGHT
LIGHT	1	20	29	C	30	20	1	LIGHT
LIGHT	1	20	31	A	32	20	1	LIGHT
LIGHT	1	20	33	B	34	20	1	LIGHT
LIGHT	1	20	35	C	36	20	1	LIGHT
LIGHT	1	20	37	A	38			SPACE
LIGHT	1	20	39	B	40			SPACE
LIGHT	1	20	41	C	42			SPACE

FEED FROM : DP-2
FEED SIZE : 4-3/0. 1-6. 2.5"C — PROJECT NAME : ELM ROAD SCHOOL
CONNECTED LOAD KVA :
40.7

DISTRIBUTION PANEL — PLAN TYPE DP-2 — ALL CIR. REQ. EQUIP GROUND WIRE
VOLTS 208/120 — 3 PHASE 4 WIRE — AMP MAINS : 800

CKT.NO.	FRAME AMPS	FUSE SIZE	MOTOR H.P.	CONNECTED K.V.A.	NO.PH. WIRES	WIRE SIZE	PLUS NEUT.	COND. SIZE	REMARKS
M	3	800	800	197.5	6	500	12-500	2-4"	MAIN (QMB)
1	3	200	200	49.4	3	3/0	3/0	2.5"	PANEL AL1
2	3	200	200	44.5	3	3/0	3/0	2.5"	PANEL BL1
3	3	200	200	40.7	3	3/0	3/0	2.5"	PANEL BL2
4	3	200	200	23.6	3	3/0	3/0	2.5"	PANEL CL1
5	3	200	200	39.3	3	3/0	3/0	2.5"	PANEL CL2
6	3	60							SPACE
7	3	60							SPACE
CONNECTED K.V.A.				197.5					

DISTRIBUTION PANEL — PLAN TYPE DP-2 — ALL CIR. REQ. EQUIP GROUND WIRE
VOLTS 208/120 — 3 PHASE 4 WIRE — AMP MAINS : 800

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LEE BROCKWAY REGISTERED No. 1666 STATE OF INDIANA ARCHITECT

ADDITIONS & ALTERATIONS TO THE
ELM ROAD ELEMENTARY SCHOOL
PENN-HARRIS-MADISON SCHOOL CORPORATION
MISHAWAKA, INDIANA

FANNING/HOWEY ASSOCIATES, Inc.
ARCHITECTS / ENGINEERS / CONSULTANTS

PANELBOARD SCHEDULES

DRAWN BY AV — COMM. NO.: 8455.00
CHECKED BY WMH — DATE: 11 NOV. 1985

REVISIONS NO. DATE

E12

ELM ROAD 8455.00