

ABBREVIATIONS

NOTE: ABBREVIATIONS SHOWN ARE STANDARDS AND MAY OR MAY NOT BE USED IN THIS SET.

ARND - AROUND	EQPT - EQUIPMENT	MISC - MISCELLANEOUS	T - TREAD
ABV - ABOVE	EXH - EXHAUST	MLD - MOLDING, MOULDING	TB - TOWEL BAR
AB - ANCHOR BOLT	EXP - EXPOSED	MNB - MEMBRANE	TBB - TOP & BOTTOM
AC - ASPHALT CONCRETE	EXIST - EXISTING (E)	MO - MASONRY OPENING	TELE - TELEPHONE
A/C - AIR CONDITIONING	EXT - EXTERIOR	MOD - MOLDLAME	TEMP - TEMPERED
ACOUS - ACOUSTICAL (PANELS)	FAB - FABRICATION	MNT - MOUNT (ED), (ING)	TAG - TONGUE & GROOVE
ADD - ADDENDUM	FAC - FACTORY	MTL - METAL	THK - THICK (NESS)
ADJ - ADJUSTABLE/ADJACENT	FAS - FASTEN, FASTENER	MUL - MULLION	THRU - THROUGH
AGG - AGGREGATE	FBL - FIBERGLASS	MCB - METAL CHALKBOARD	TJ - TOOL JOINT
ALT - ALTERNATE	FBLK - FIBER BLOCKING	(N) - NEW	TKBD - TACKBOARD
ALUM - ALUMINUM	FBLX - FIBRE BLOCKING	NAT - NATURAL	TM - TOP OF MASONRY
APPROX - APPROXIMATE	FD - FLOOR DRAIN	NOT IN CONTRACT	TOB - TOP OF BEAM
ARCH - ARCHITECT (URAL)	FF - FINISHED FLOOR	NO - NUMBER	TOC - TOP OF CONCRETE/CORB
AN - ANODIZED	FG - FIXED GLASS	NOM - NOMINAL	TP - TOILET PAPER DISPENSER
ACT - ACOUSTICAL TILE	FHMS - FLATHEAD MACHINE SCREW	NTS - NOT TO SCALE	TPN - TOILET PARTITION
BB - BOTTOM OF BEAM	FEC - FIRE EXTINGUISHER CABINET	O/ - OVER	TS - TOP OF SHEATHING
BD - BOARD	FHG - FIRE HOSE CABINET	OA - OVERALL	TSL - TOP OF SLAB
BEL - BELOW	FIN - FINISH (ED)	OB - OBSOLETE	TST - T-BAR ACOUSTIC TILE
BLDG - BUILDING	FJ - FLOOR JOIST	OC - OVERFLOW DRAIN	TV - TELEVISION
BLK - BLOCK	FLR - FLOOR/ING	OD - OUTSIDE DIAMETER	TYP - TYPICAL
BLKG - BLOCKING	FLUR - FLOURESCENT	OH - OVERHEAD	TW - TOP OF WALL
BEAM - BEAM	FLX - FLEXIBLE	OPQ - OPAQUE	
BOT - BOTTOM	FLX - FLEXIBLE	OPN - OPENING	
BRG - BEARING	FND - FOUNDATION	OPP - OPPOSITE	
BRZ - BRONZE	FOC - FACE OF CONCRETE	OPT - OPTIONAL	
BUR - BUILT UP ROOFING	FOS - FACE OF STUDS	PBD - PARTICLE BOARD	
	FOM - FACE OF MASONRY	PERM - PERMETER	
CES - CARPET EDGE STRIP	FR - FRAME (D), (NG)	PERF - PERFORATE (D)	
C - CARPET	FTG - FOOTING	PFB - PREFABRICATE (D)	
CAB - CABINET	FUR - FURRED DRAIN	PL - PLATE	
CB - CATCH BASIN	FUT - FUTURE	PLAM - PLASTIC LAMINATE	
CEM - CEMENT	GA - GAGE, GAUGE	PLAS - PLASTER	
CER - CERAMIC	GD - GRADE, GRADING	PLT - PLATE	
CF - COUNTERFLASHING	GI - GALVANIZED IRON	PLMD - PLYWOOD	
CHAM - CHAMFER	GL - GLASS, GLAZING	PNT - PANEL	
CHBD - CHALKBOARD	GLV - GALVANIZED	PNT (D) - POINT OF CONNECTION	
CI - CAST IRON	GRAV - GRAVEL	PT - POINT	
CEILING - CEILING JOIST	GYP - GYPSUM	PTN - PARTITION	
CJT - CONTROL JOINT	HB - HOSE BIBB	PVA - POLYVINYL ACETATE	
CLG - CEILING	HC - HOLLOW CORE	PVC - POLYVINYL CHLORIDE	
CT - CERAMIC TILE	HCBP - HANDCAPPED		
CMU - CONCRETE MASONRY UNIT	HDR - HARDWOOD		
	HKB - HARDBOARD		
CNTR - COUNTER	HMT - HARDWOOD METAL		
CO - CLEAN OUT	HOR - HORIZONTAL		
COL - COLUMN	HT - HEIGHT		
COMB - COMBINATION	HTG - HEATING		
COMPO - COMPOSITE	HVAC - HEATING, VENTILATING/ AIR CONDITIONING		
	HW - HOT WATER		
CONC - CONCRETE	ID - INSIDE DIAMETER		
CONT - CONTINUOUS OR CONTINUE	INGL - INCLUDE (D), (NG)		
	INSTR - INSTRUCTION (S)		
CONST - CONSTRUCTION	INSUL - INSULATE (D), (ON)		
CORR - CORRUGATED	INT - INTERIOR		
COTR - CLEANOUT THRU FLOOR	INTV - INVERT		
COTG - CLEAN OUT THRU WALL	IO - INSIDE DIAMETER		
COTW - CLEAN OUT THRU WALL HW	INSTR - INSTRUCTION (S)		
	INSUL - INSULATE (D), (ON)		
CR - COUNTERSINK	INTV - INVERT		
CSK - CASEMENT	IS - INSIDE DIAMETER		
CSK - COUNTERSINK SCREW	INGL - INCLUDE (D), (NG)		
CTR - CENTER	INSTR - INSTRUCTION (S)		
CWK - COLD WATER	INSUL - INSULATE (D), (ON)		
CW - COLD WATER	INT - INTERIOR		
	INTV - INVERT		
DET - DETAIL	JO - JOINT		
DF - DRINKING FOUNTAIN	JOINT - JOINT		
DIA - DIAMETER	JOINT - JOINT		
DIAG - DIAGRAM	KO - KNOCKOUT		
DIM - DIMENSION	LAD - LADDER		
DIV - DIVISION	LAM - LAMINATE (D)		
DPRS - DERESSED	LAV - LAVATORY		
DR - DOOR	LAG - LAG BOLT		
DS - DOWNSPOUT	LH - LEFT HAND		
DSPR - DRAIN	LVR - LOUVER		
DWG - DRAWING	MAS - MASONRY		
DWR - DRAWER	MATL - MATERIAL		
	MAX - MAXIMUM		
E - ENAMEL	MB - MACHINE BOLT		
ED - EACH	MC - MACHINE CABINET		
EDF - ELECTRIC DRINKING FOUNTAIN	MED - MEDIUM		
EJ - EXPANSION JOINT	MFG - MANUFACTURING		
ELEV - ELEVATION	MFR - MANUFACTURE (ER)		
ELEC - ELECTRIC (AL)	MIN - MINIMUM		
ELECT - ELECTRICAL	MIR - MIRROR		
EMER - EMERGENCY			
ENAM - ENAMEL			
ENCL - ENCLOSE (URE)			
EQ - EQUAL			
EPOX - EPOXY (PAINT)			

HORACE MANN MODERNIZATION

BAKERSFIELD CITY SCHOOL DISTRICT

Bakersfield, California

SHEET INDEX

ARCHITECTURAL

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R - RISER
 RO - ROOF DRAIN
 REF - REFERENCE
 REFR - REFRIGERATOR
 REIN - REINFORCE (D), (NG)
 REM - REMOVE
 REQD - REQUIRED
 RES - RESILIENT
 RET - RETURN
 REV - REVISION (S), REVISED
 RFG - ROOFING
 RFL - REFLECT (ED), (IVE), (OR)
 RH - RIGHT HAND
 RL - RIDGE LINE
 RM - ROOM
 RO - ROUGH OPENING
 ROW - RIGHT OF WAY
 RWD - REDWOOD
 RWL - RAINWATER LEADER

SC - SOLID CORE
 SCH - SCHEDULE
 SFD - STORM DRAIN
 SEC - SECTION
 SHLF - SHELF
 SHLV - SHELVING
 SHT - SHEET
 SHTG - SHEATHING
 SIM - SIMILAR
 SKL - SKYLIGHT
 S/P - SHELF & POLE
 SPEC - SPECIFICATION (S)
 SQ - SQUARE
 S/P - STAINLESS STEEL
 STD - STANDARD
 STL - STEEL
 STRUC - STORAGE
 STRUC - STRUCTURE (AL)
 SYS - SYSTEM

W/ - WITH
 WC - WATER CLOSET
 WD - WOOD
 WFG - WIRE FIXED GLASS
 WHC - WALL HUNG CABINET
 WI - WROUGHT IRON
 WIN - WINDOW
 WM - WIRE MESH
 W/O - WITHOUT
 WP - WATERPROOFING
 WSC - WAINSCOT
 WST - WASTE
 WWF - WELDED WIRE FABRIC

AT - AT
 CL - CENTERLINE
 DI - DIAMETER
 O/ - OVER
 P - PROPERTY LINE
 S - SQUARE FEET

GENERAL NOTES

CONTRACTOR SHALL VERIFY AT SITE ALL EXISTING CONDITIONS. REFER TO SUBMITTAL OF PLANS. SITE VISITS DURING BIDDING SHALL BE COORDINATED WITH THE OWNER IN ACCORDANCE WITH PROVISIONS OF THE SPECIFICATIONS.

ALL WORK SHALL BE IN ACCORDANCE WITH TITLE 21 & 24 CALIFORNIA ADMINISTRATION CODE & UNIFORM BUILDING CODE 1979.

CONTRACTOR SHALL PROTECT ALL EXISTING WORK. ANY DAMAGED WORK SHALL BE REPLACED WITH THE SAME MATERIALS, INCLUDING MATCHING THE EXISTING COLOR AND TEXTURES.

EXISTING WORK IS SHOWN FOR REFERENCE ONLY. THE OWNER ASSUMES ALL RISK AND GUARANTEES EXISTING CONDITIONS AS SHOWN ON THESE DRAWINGS.

INDIVIDUAL CONTRACTORS SHALL BE RESPONSIBLE FOR THEIR OWN CLEANUP AS WORK PROGRESSES.

MATERIALS SUSPECTED OF CONTAINING ASBESTOS THAT ARE DISCOVERED DURING THE PROGRESS OF THE WORK SHALL BE REPORTED TO THE OWNER. WORK IN THAT AREA SHALL BE SUSPENDED UNTIL THE OWNER TESTS THE SUSPECTED MATERIAL AND IT IS FOUND TO BE SAFE. ON IF CONTAINING ASBESTOS, THE MATERIAL HAS BEEN PROPERLY ABATED (ABATEMENT WORK NOT IN CONTRACT (N/C)).

ADDENDA & CHANGE ORDERS SHALL BE SUBMITTED TO THE OFFICE OF THE STATE ARCHITECT FOR APPROVAL PRIOR TO DOING THE WORK.

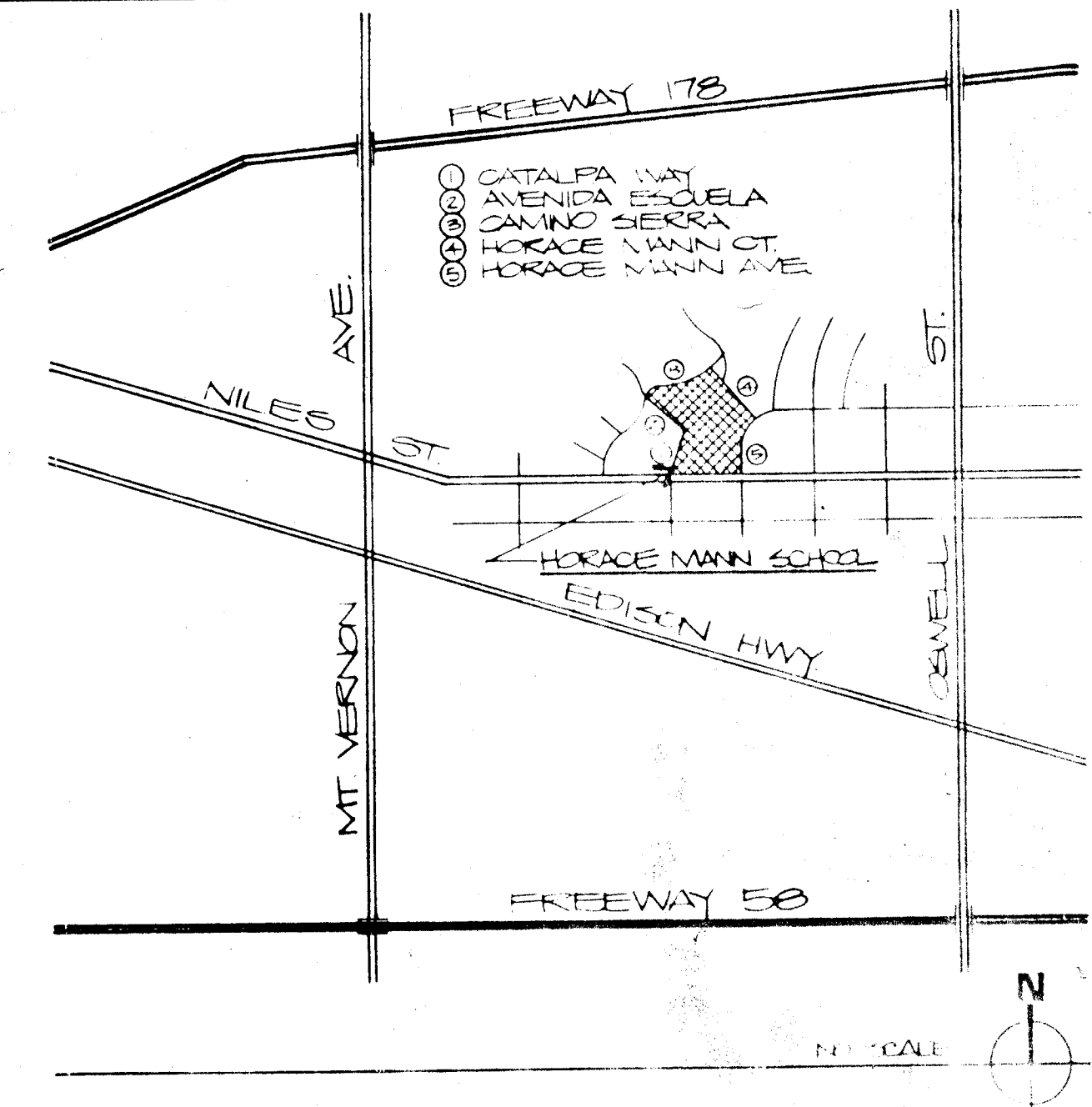
CONSULTANTS

structural
 JOHN Q FORESTELLE
 920 Wible Rd.
 Bakersfield, CA. 93304
 (805) 397-7800

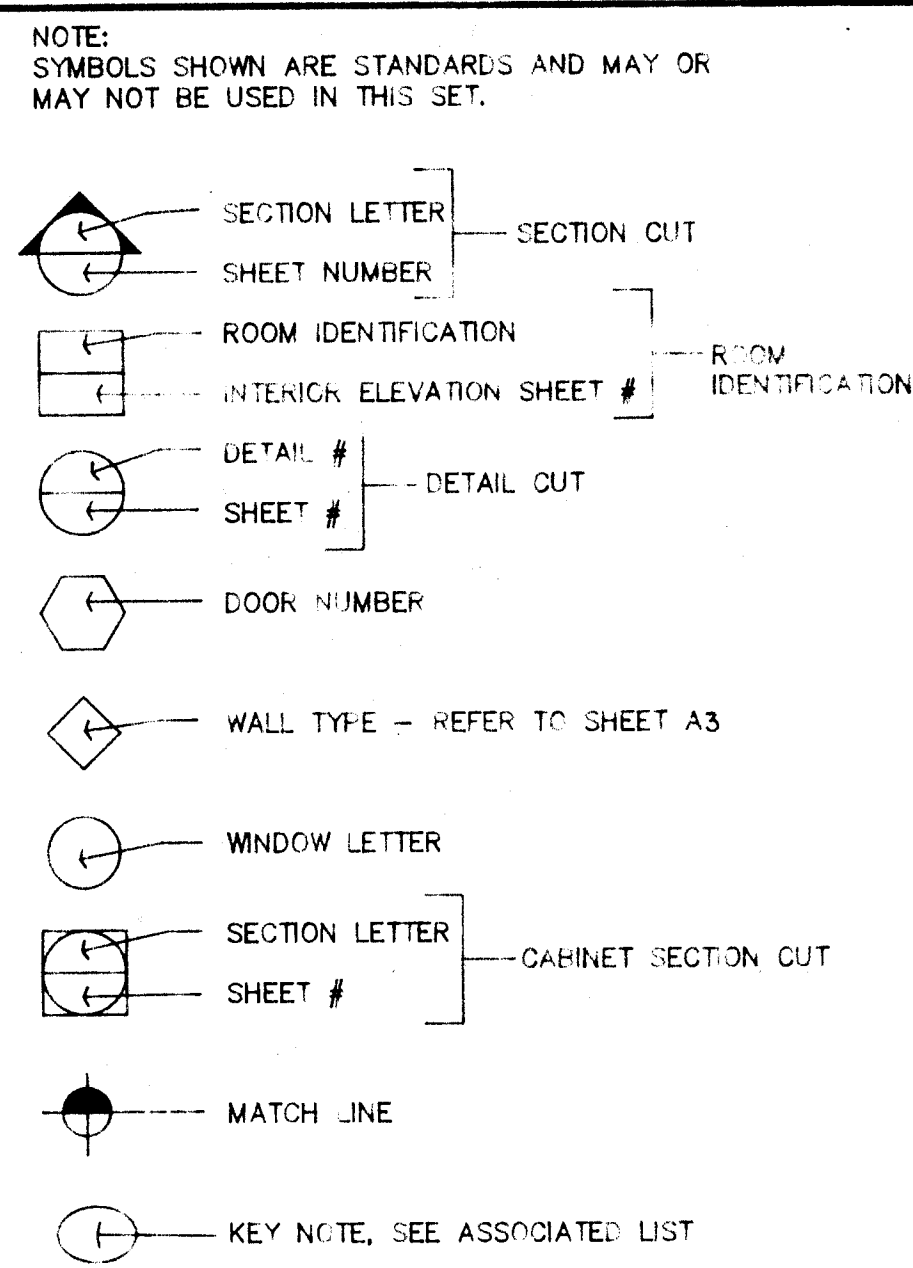
mechanical
 DONALD R LAWRENCE & ASSOC.
 1300 W. Shaw Ave. Suite 2B
 Fresno Ca. 93711
 (209) 226-0101

electrical
 INTERSTATE ENGINEERING
 127 E. Belmont Ave.
 Fresno Ca. 93701
 (209) 486-1151

VICINITY MAP



SYMBOL LEGEND



BUILDING DATA

applicable codes:
 TITLE 24 CAC
 UNIFORM BUILDING CODE 1979 ED (OSA)
 TITLE 21 CAC

BUILDING No.	OCCUPANCY	AREA	HEIGHT
100	E-1	4,281.00	± 17'-6"
200	E-1	2,706.47	± 17'-6"
300	E-1	4,267.10	± 17'-6"
400	E-1	3,777.83	± 17'-6"
500	E-1	14,076.04	± 17'-3"
600	E-1	11,193.82	± 24'-6"
700	E-1	7,304.61	± 17'-0"

* HEIGHT FROM FINISH FLOOR TO TOP OF ROOF

NOTES:
 1. ALL BUILDINGS ARE ONE STORY IN HEIGHT
 2. NO NEW ADDITION IN AREA TO ANY OF THE BUILDINGS
 3. NO EXISTING AUTOMATIC FIRE SPRINKLERS
 4. CONSTRUCTION TYPE (ALL BUILDINGS) EXISTING TYPE V-1-N

OLA APPLICATION # 77/...

TITLE SHEET
HORACE MANN MODERNIZATION
 BAKERSFIELD CITY SCHOOL DISTRICT
 2710 NILES BAKERSFIELD, CA

Bakersfield City School District

bfgc inc.

approved

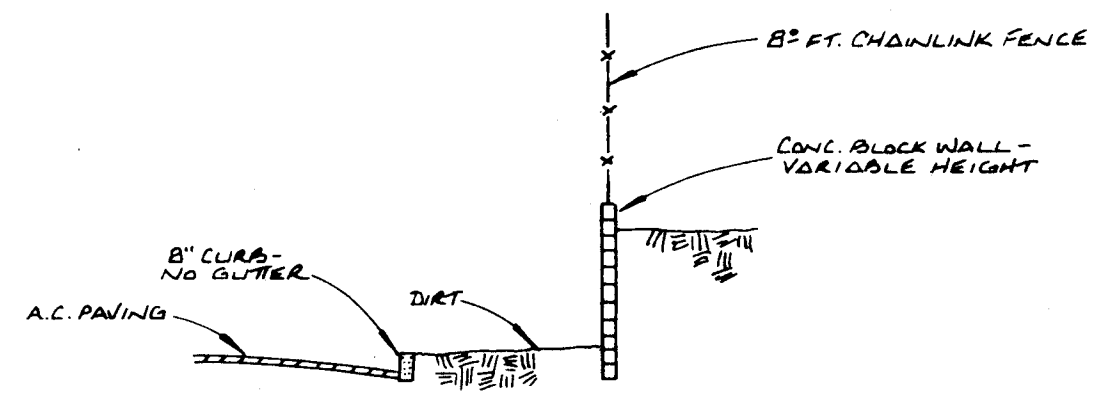
5/28/97

DR. CRITCHEL

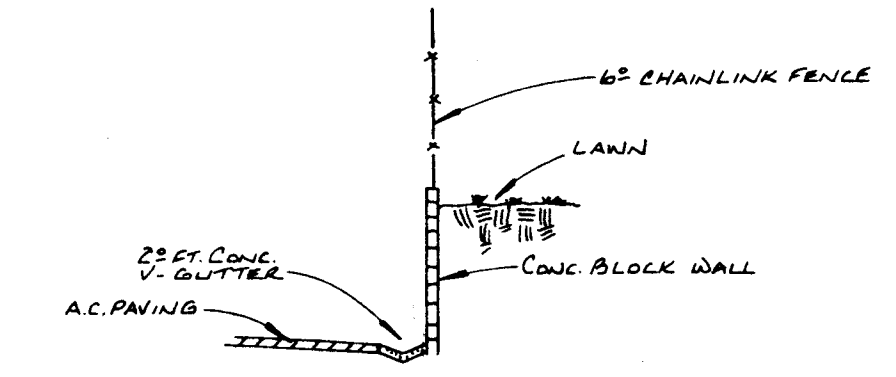
bfgc inc. architects planners 31 south west road box 9698 bakersfield california 93309 805 832 8122

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- LEGEND**
- T.C. TOP CURB (OR TOP OF CONCRETE)
 - F. FLOWLINE
 - E.P. EDGE OF PAVEMENT
 - CONCRETE SURFACING
 - W.V. WATER VALVE
 - F.F. FINISH FLOOR
 - U.G. UNDERGROUND
 - O.H. ROOF OVER-HANG LINE

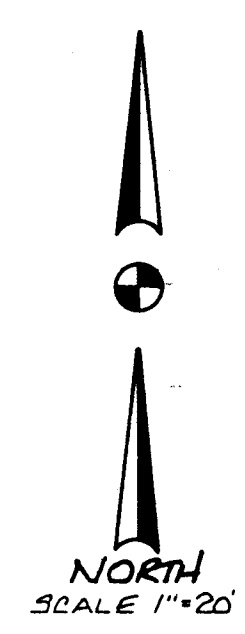


SECTION A-A
N.T.S.

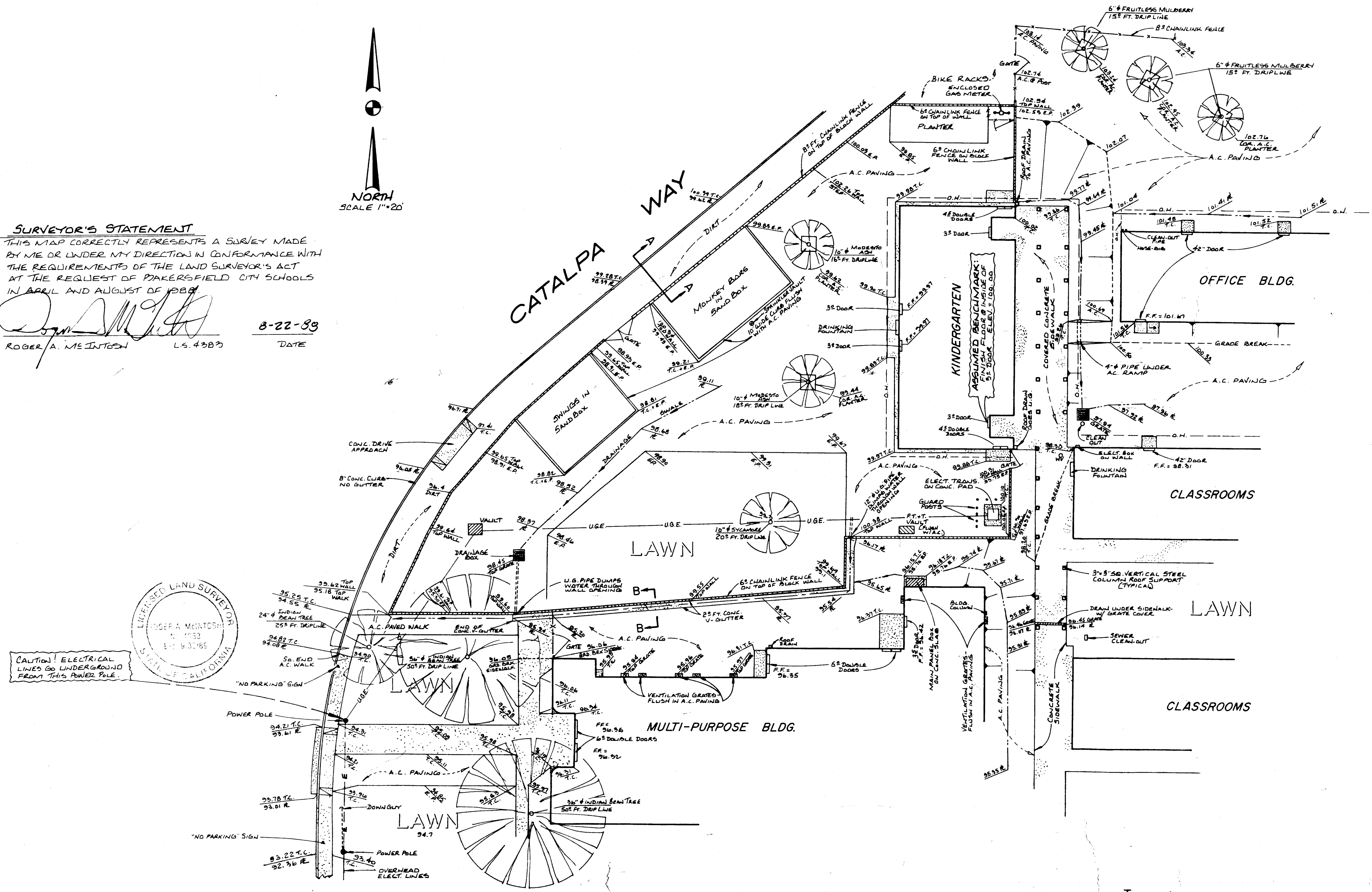
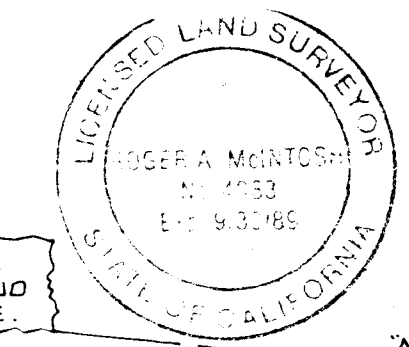


SECTION B-B
N.T.S.

NOTE
 NOT ALL UNDERGROUND FACILITIES OR UTILITIES WERE LOCATED ON THIS PLAN AND THE SURVEYOR ASSUMES NO RESPONSIBILITY FOR UNDERGROUND FACILITIES NOT SHOWN OR FROM INFORMATION OBTAINED FROM OUTSIDE SOURCES.
 ADDITIONAL TPO FOR NEW LOCATION OF CHILLER YARD PLOTTED AUGUST 22, 1988. (WEST SIDE OF MULTI-PURPOSE BUILDING)



SURVEYOR'S STATEMENT
 THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE LAND SURVEYOR'S ACT AT THE REQUEST OF BAKERSFIELD CITY SCHOOLS IN APRIL AND AUGUST OF 1988.
 ROGER A. MCINTOSH
 L.S. 4987
 8-22-88
 DATE



approved

DATE

REPLICATION STAMP
 No. 5800
 AB 516
 State Survey Section

DATE

DATE

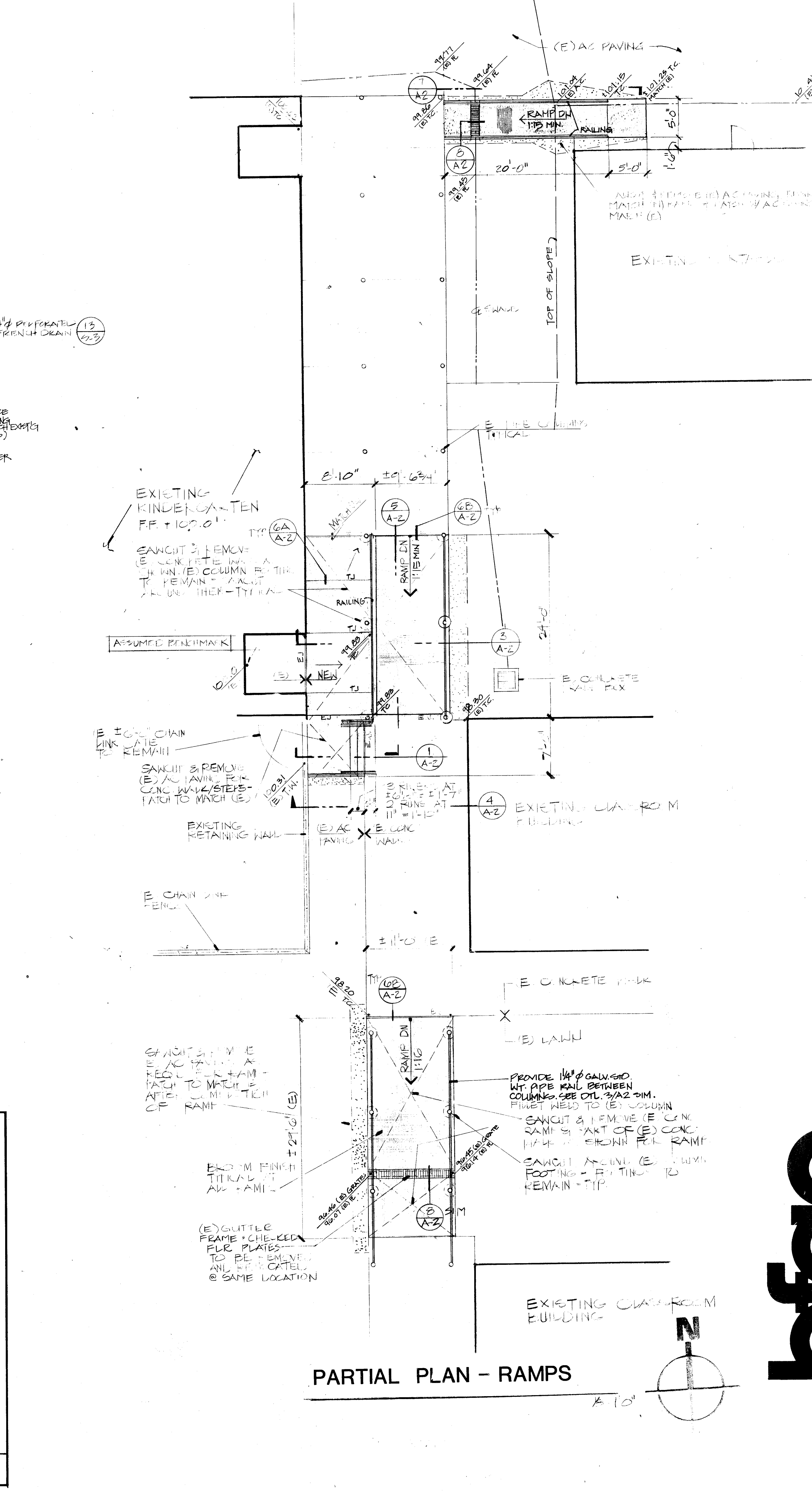
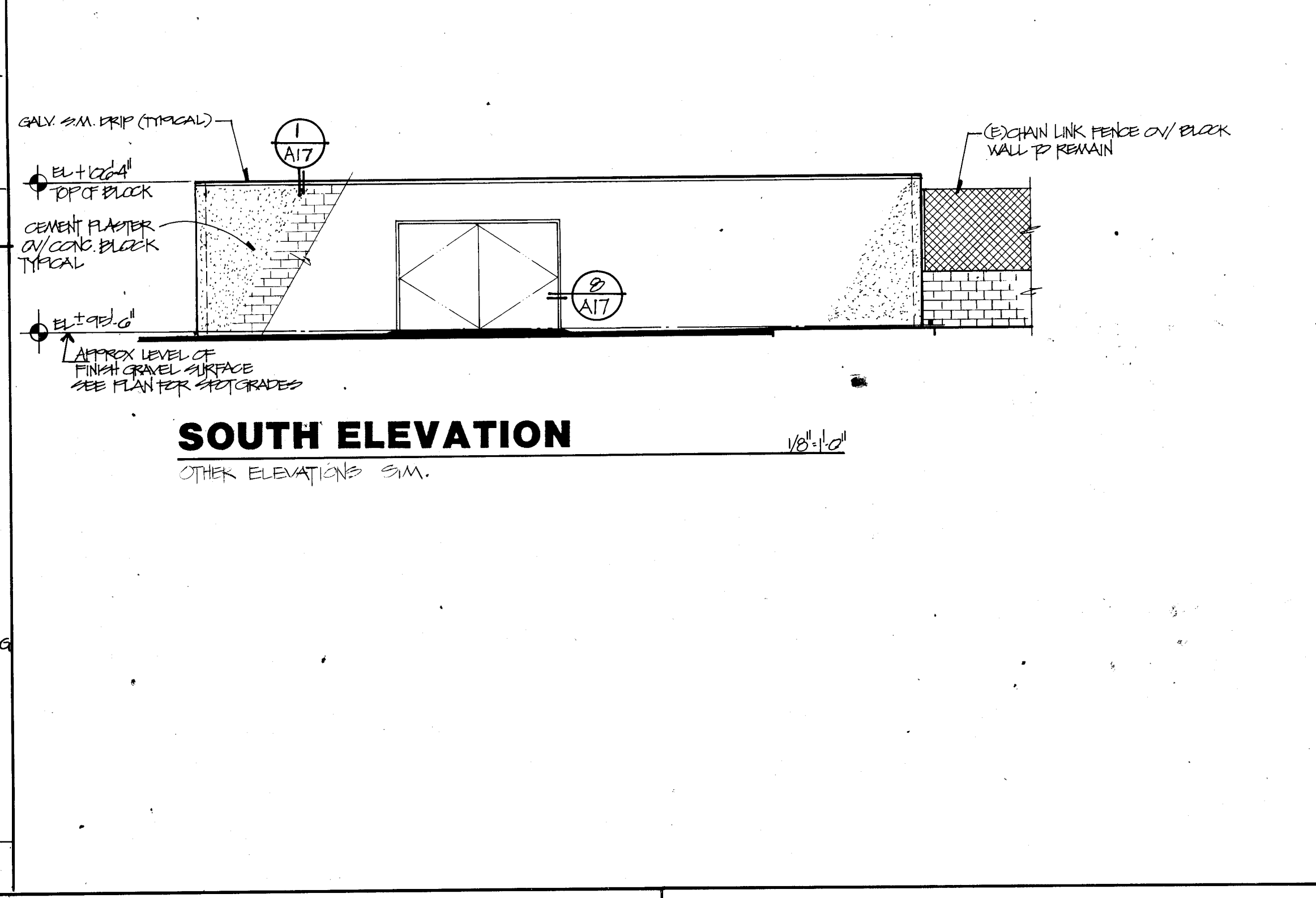
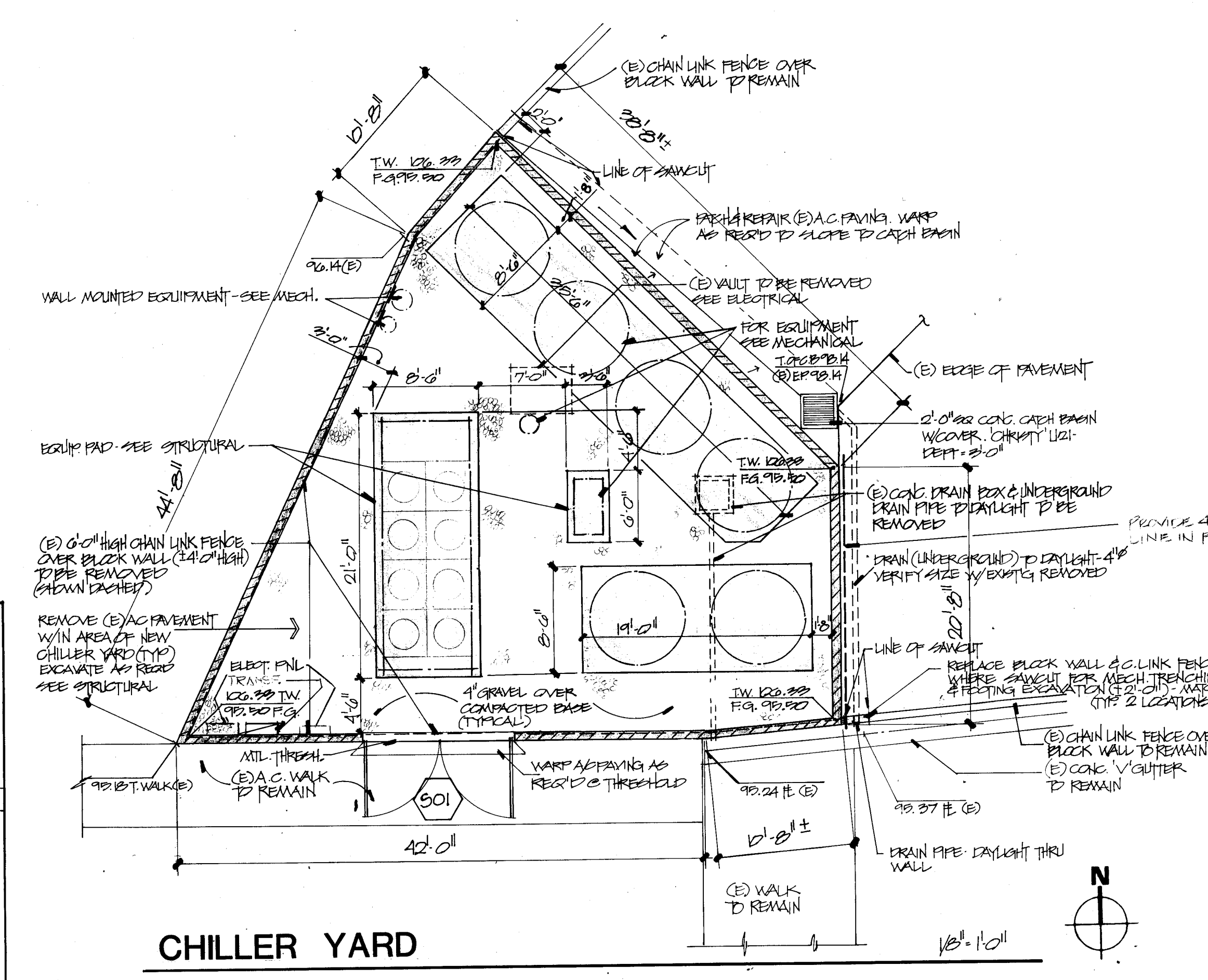
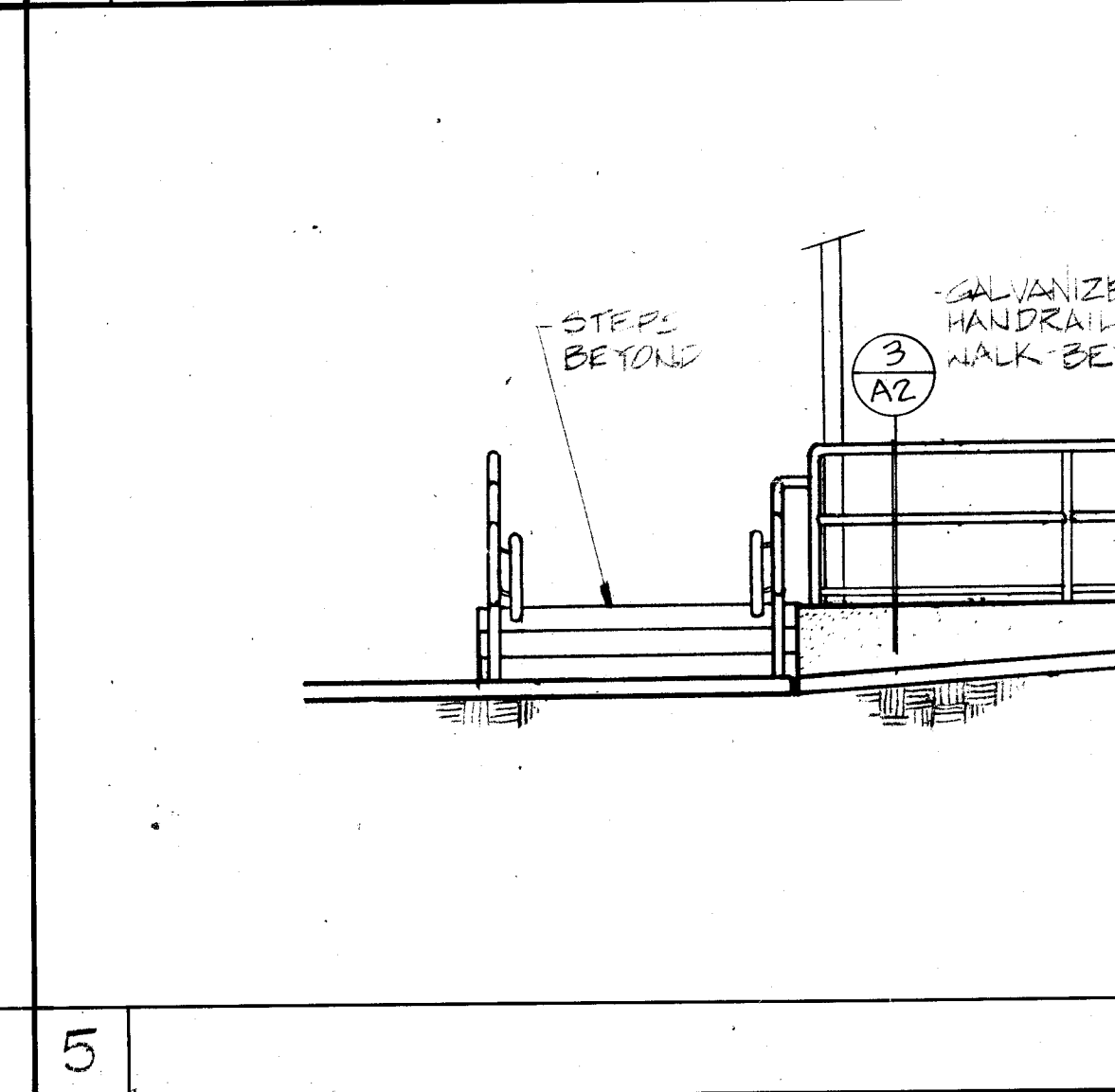
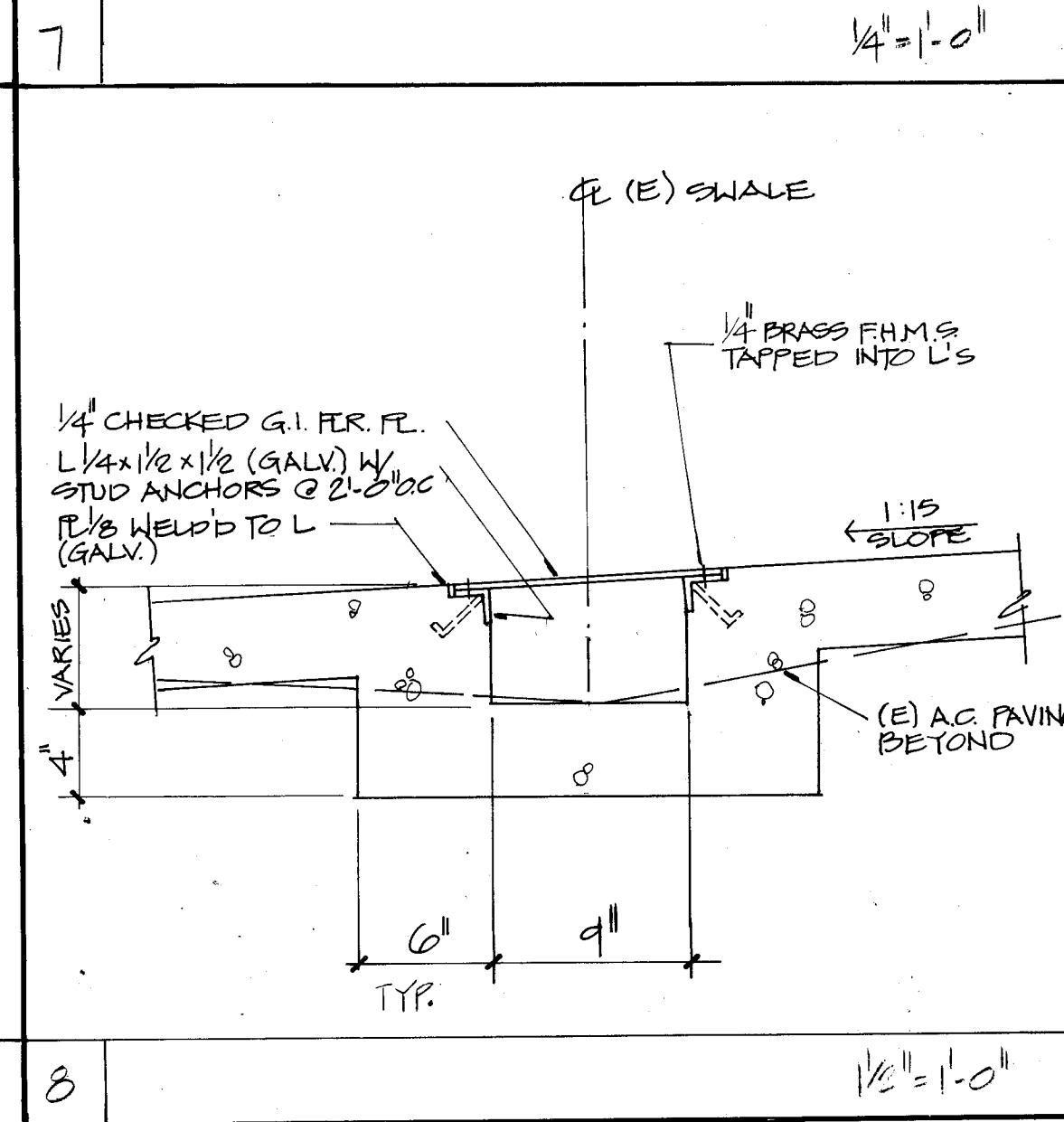
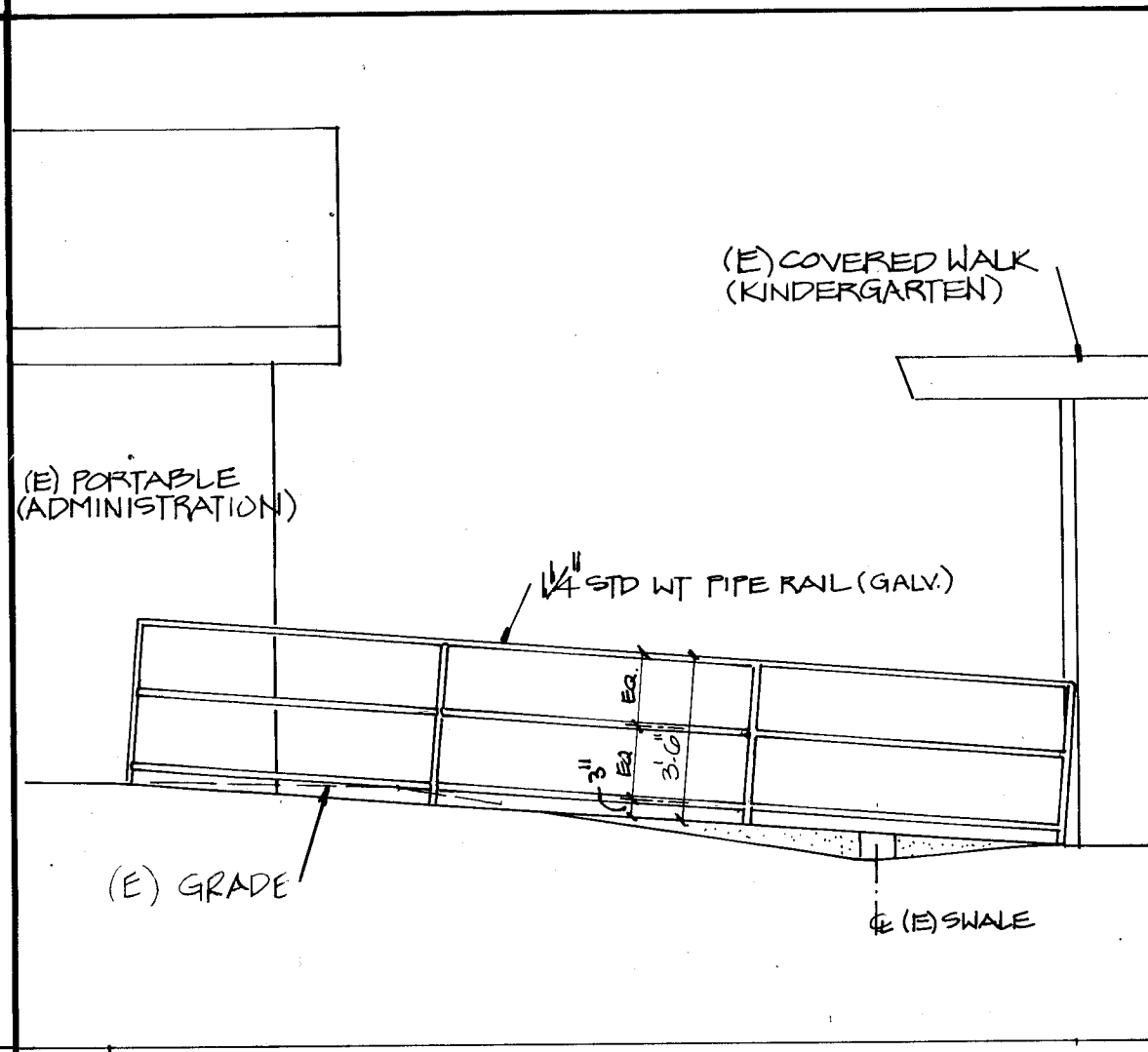
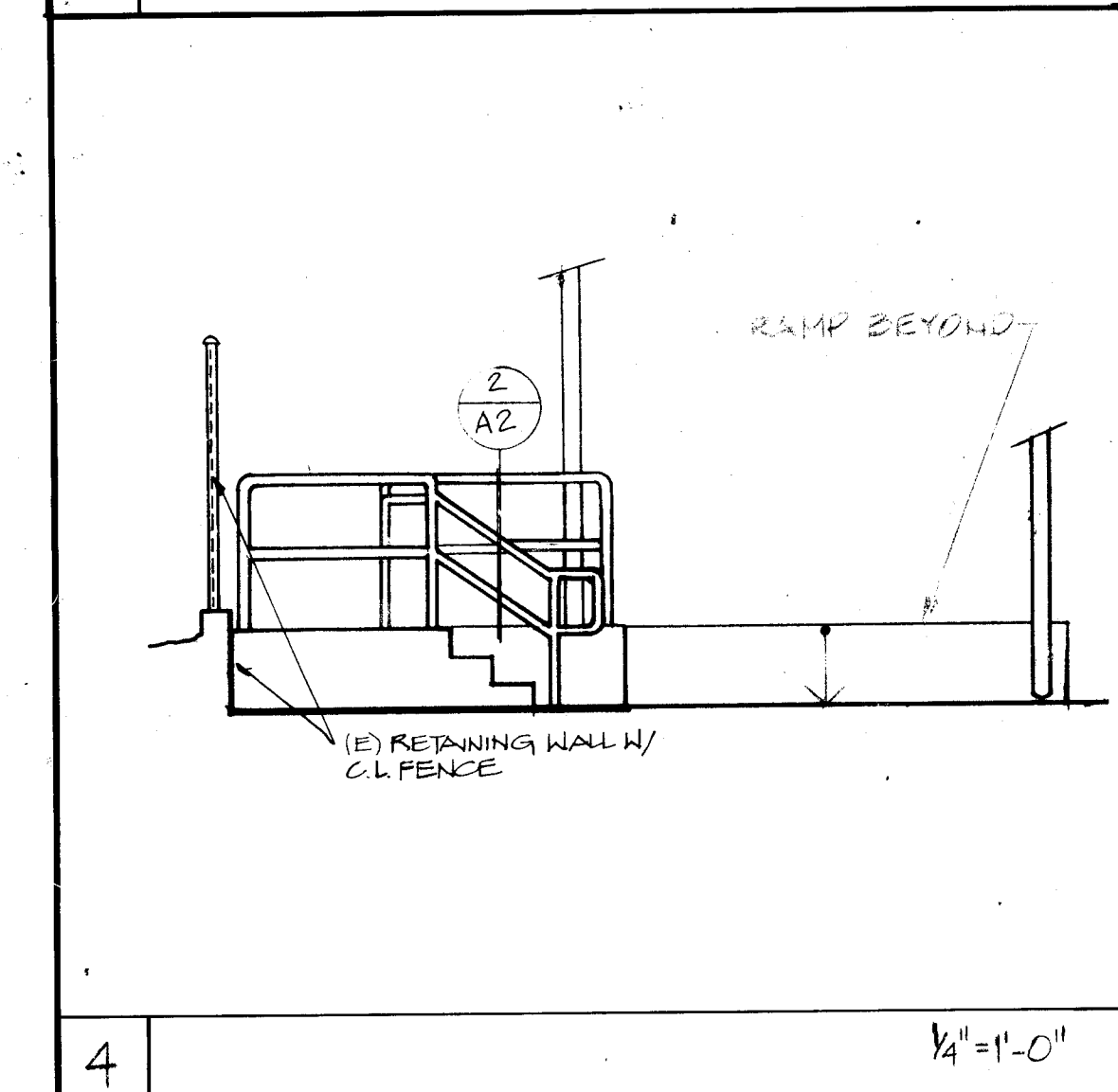
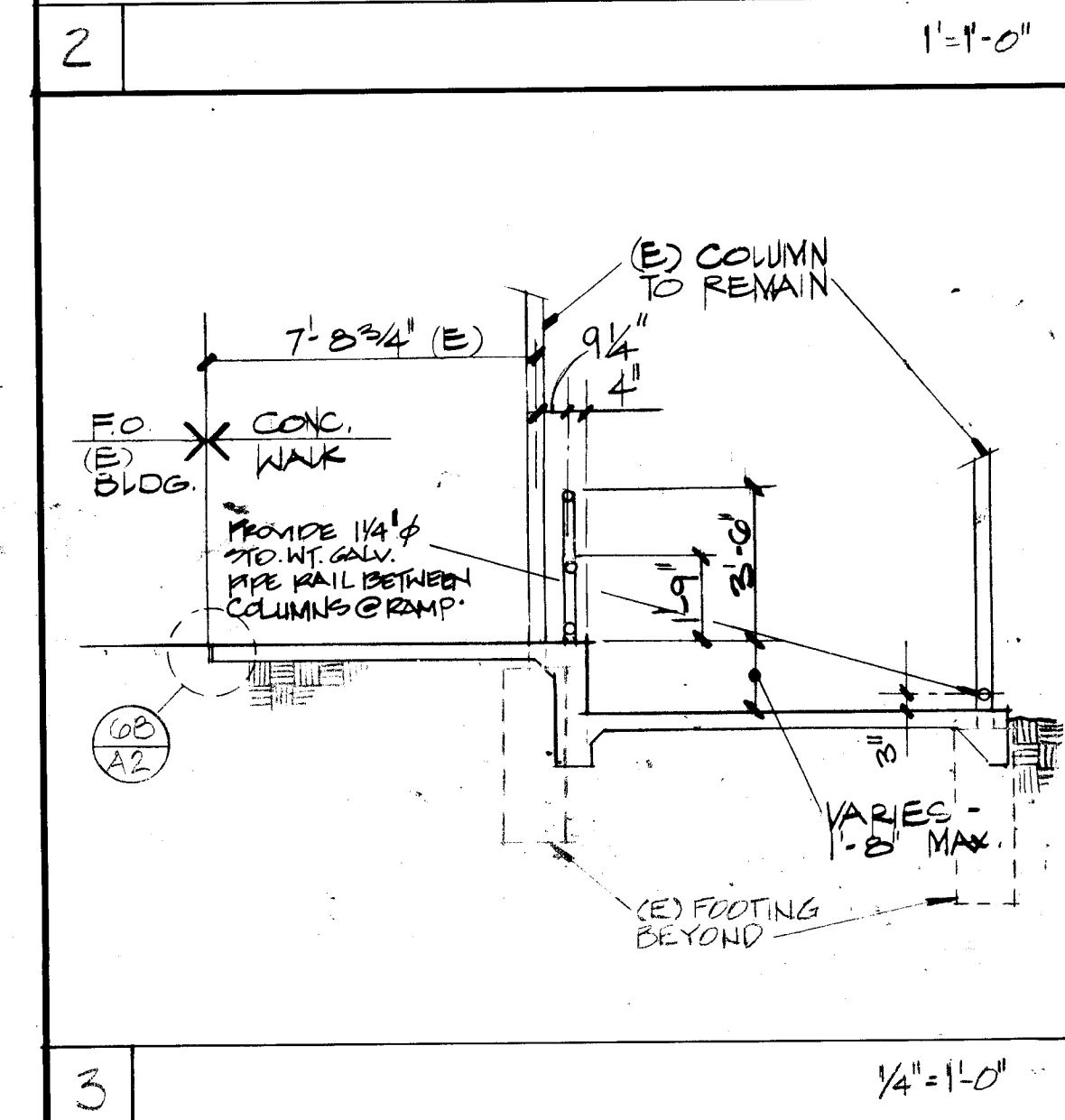
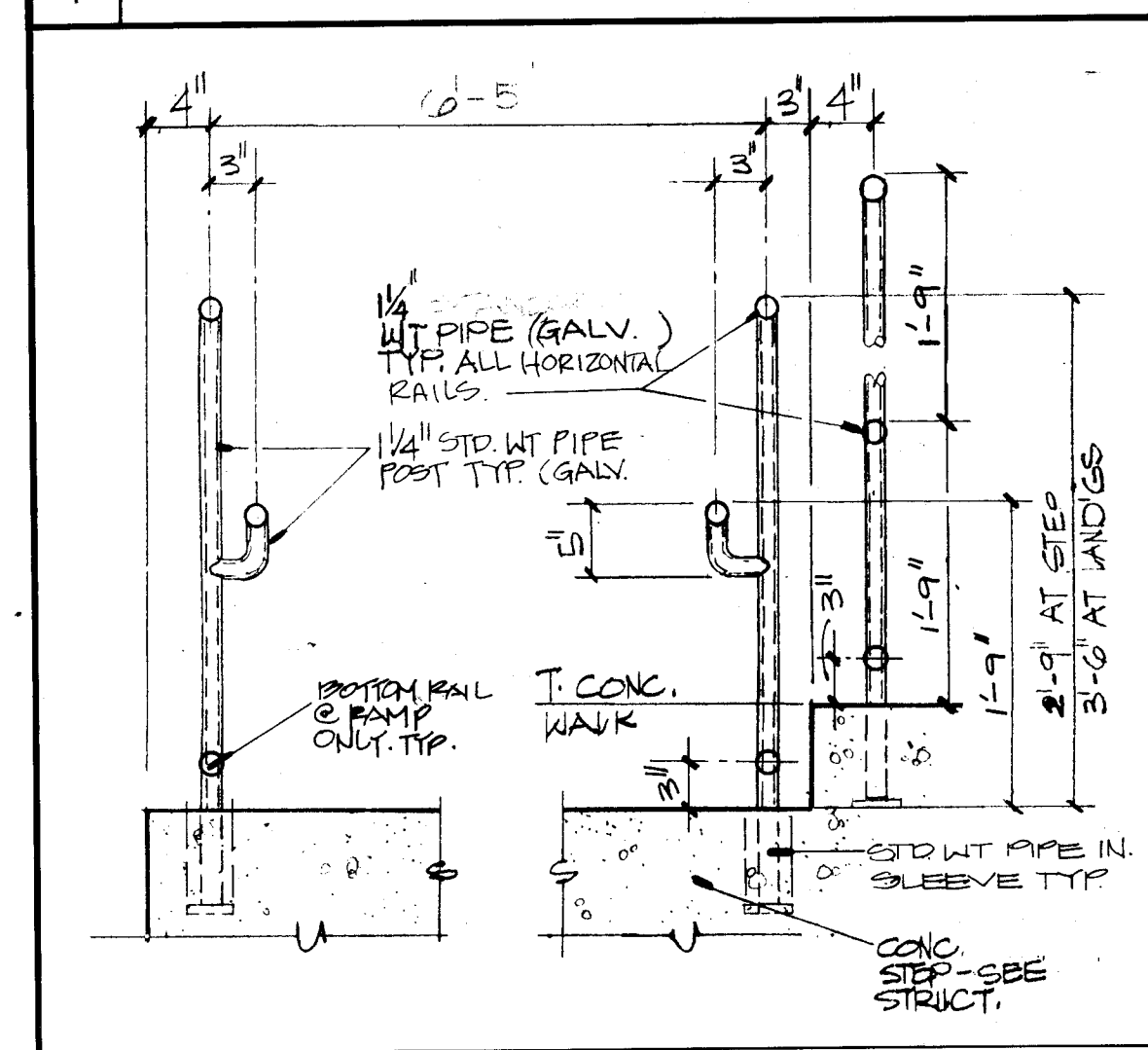
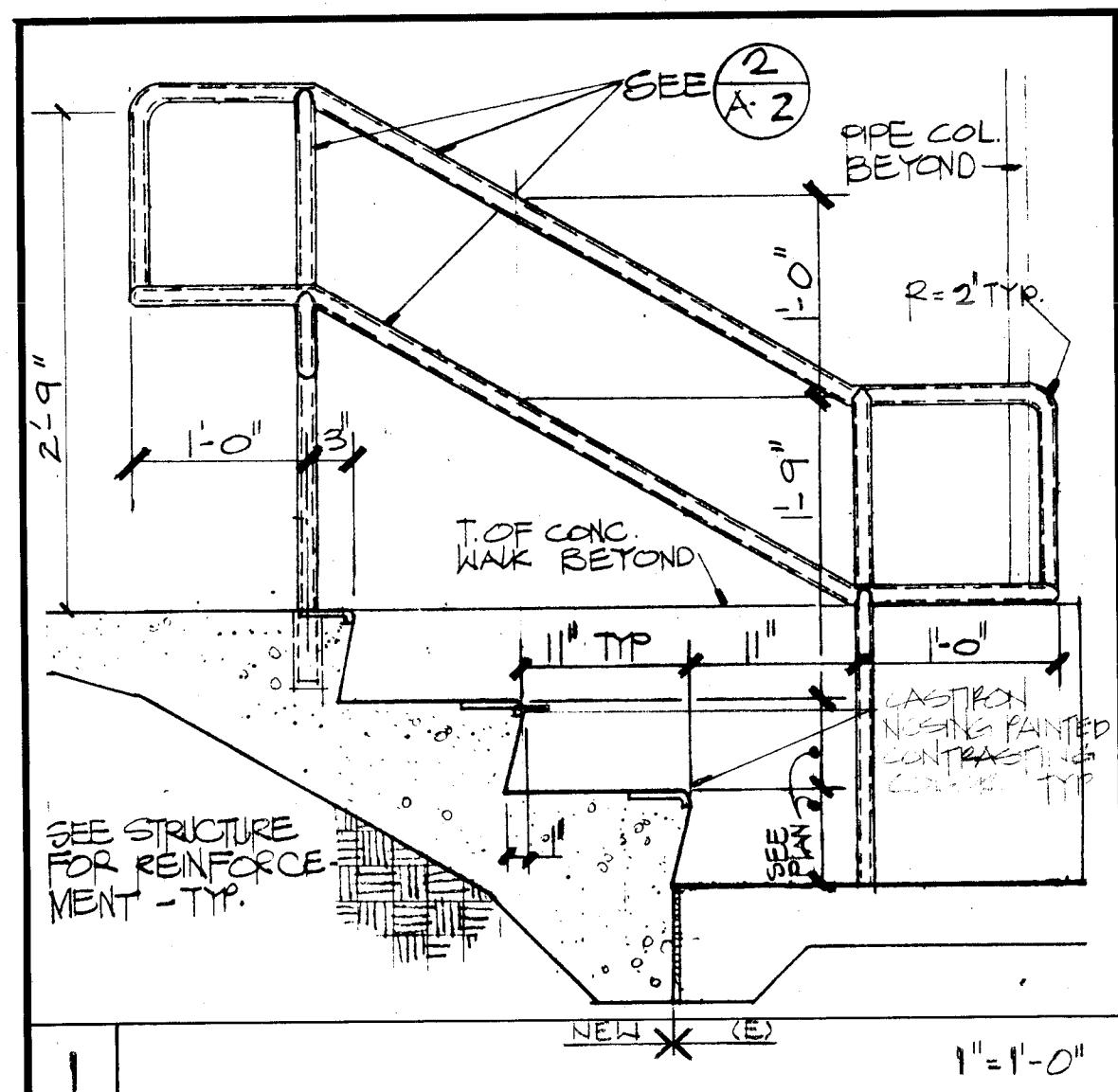
C. 3132
 C. 3269
 C. 6564
 C. 8021
 C. 8702
 DR. CRIVELLO

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 architects planners
 31 south real road box 9686
 Bakersfield California 93309
 805 832 8122

EXISTING SITE SURVEY
HORACE MANN MODERNIZATION
 BAKERSFIELD CITY SCHOOL DISTRICT
 2710 NILES AVENUE
 BAKERSFIELD, CALIFORNIA 93307

job # 88-117
 date 8-22-88

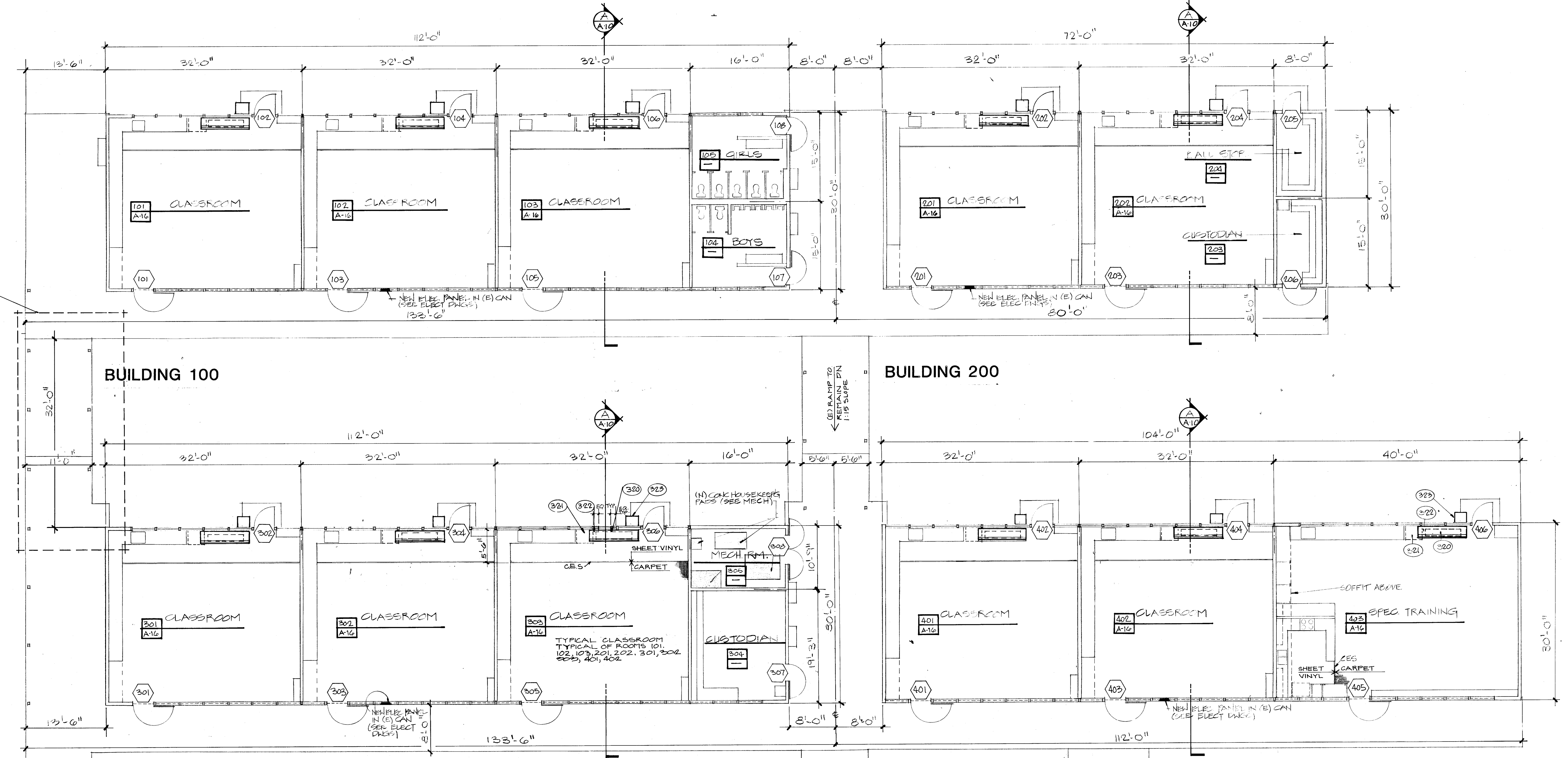
sheet # 1



architects - planners

bfgc

approved															
		DR. GERTAL architects planners 31 south real road box 9698 bakersfield california 93309 805 832 8122 <small>© copyrighted 198</small>		bfgc inc. architects planners 31 south real road box 9698 bakersfield california 93309 805 832 8122		CHILLER YARD, RAMP PLAN, & DETAILS HORACE MANN MODERNIZATION BAKERSFIELD CITY SCHOOL DISTRICT 2710 NILES AVENUE BAKERSFIELD, CALIFORNIA 93307		job 87-127 date 1 FEB 81							



BUILDING 100

BUILDING 200

BUILDING 300

BUILDING 400

FLOOR PLANS 1/8"=1'-0"

MATCH LINE A SEE SHEET # A4

GENERAL NOTE:
REFER TO SHEET 'A' FOR LISTING OF ALTERNATES

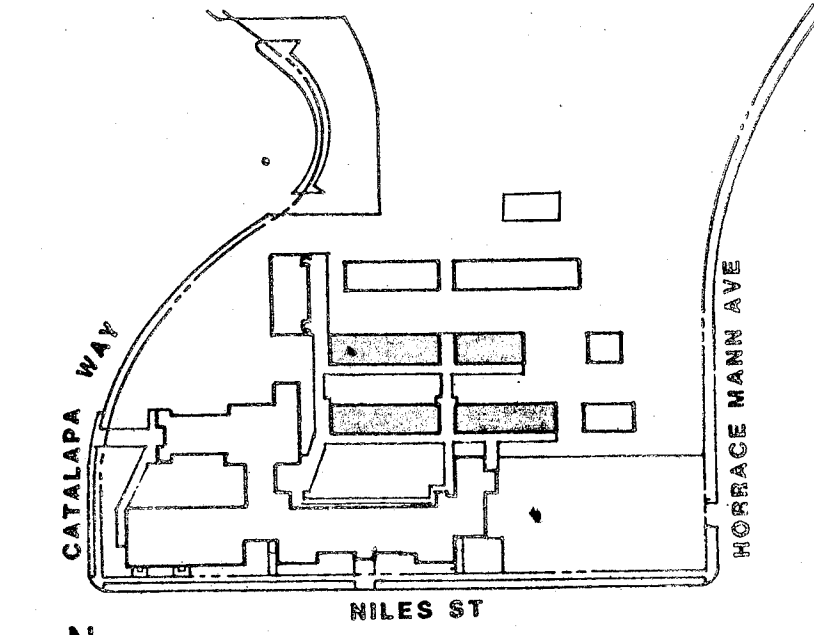
GENERAL NOTES
1. RELOCATE ALL (E) EXISTING POWERED CLOSETS IN ROOMS WITH (N) TET CEILING TO ALL ROOMS DIRECTED BY ARCHITECT

FLOOR PLAN KEY NOTES

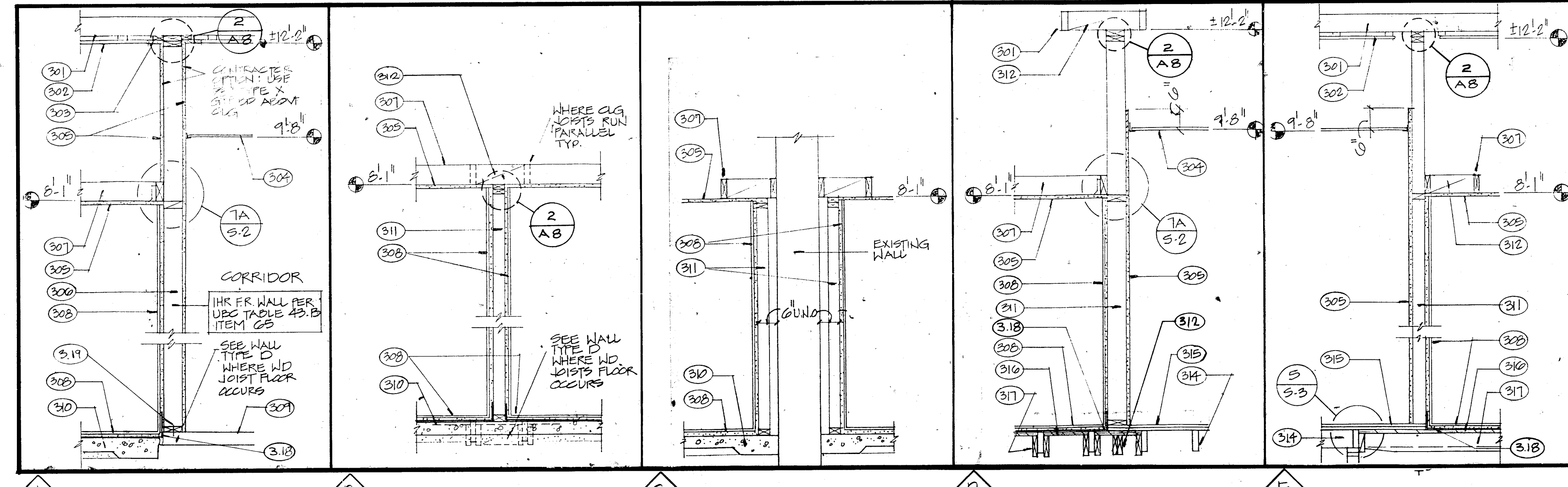
- 320 Remove (E) unit ventilator; See Mechanical
- 321 Remove portion of (E) cabinet to accommodate new unit ventilator. Provide new end panel. SEE INTERIOR ELEV SHEET A-16
- 322 Unit ventilator; See Mechanical
- 323 PIPE COVER SEE MECH DTL Q/MR-B

WALL SECTION KEY NOTES

- 301 Bottom of (E) truss
- 302 (E) Plaster ceiling
- 303 Stripping to match existing
- 304 Suspended acoustic tile ceiling
- 305 Plaster to match existing over mtl. lath
- 306 2 X 6 studs at 16" O.C. See Detail 17 Sheet S-1 for framing details.
- 307 2 X 6 ceiling joists at 16" O.C.
- 308 Ceramic tile over mortar bed
- 309 (E) conc. floor
- 310 New 4" conc. slab over 2" sand base; depress 1-1/2" FOR ceramic tile floor.
- 311 2 X 4 studs at 16" O.C. See Detail 17 Sheet S-1 for framing details.
- 312 2 X 6 DOUBLE JOIST
- 313 2 X studs (width to match existing) at 16" O.C.
- 314 (E) Floor joists
- 315 (E) double wood floor
- 316 3/4 plywood between (E) floor joists
- 317 2 X each side of (E) floor joists SEE STRUCTURAL
- 318 PROVIDE WATERPROOFING MEMBRANE AT ALL CERAMIC TILE FLOOR OVER WOOD JOIST. EXISTENT MEMBRANE ON ABOVE FINISH FLOOR ON ALL WALLS
- 319 2 X 2T 2L2 @ 16" O.C. NEW 2" AIRSPACE W/1/2" RED WEL, 15#130 2" x 1650 #1372 8'4" O.C.



KEY PLAN



<p>approved</p>		<p>IDENTICAL</p>		
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C • 3268
C • 3132
*C • 6584
C • 8702

DR. CURTIN

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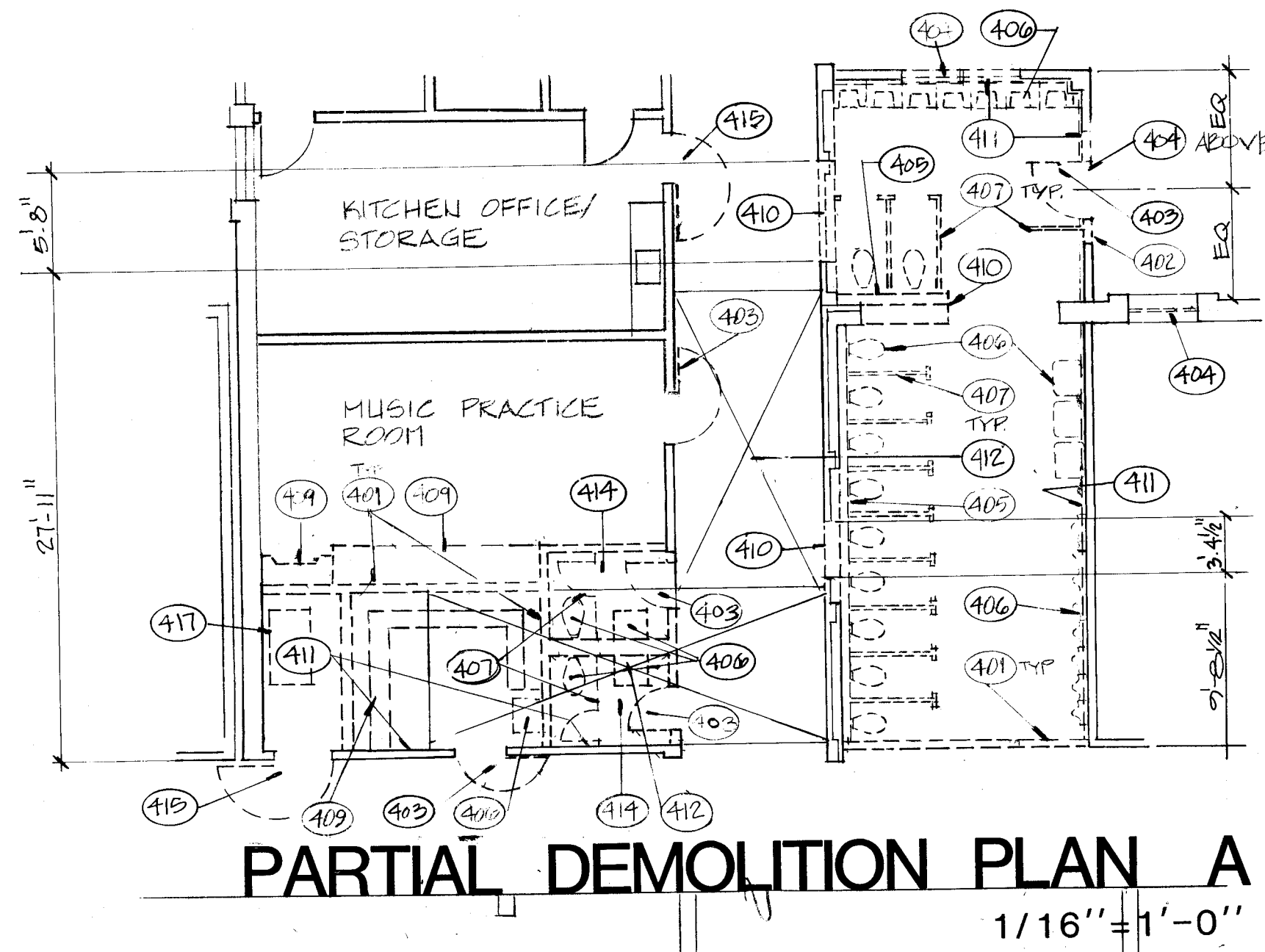
Application No. 77/50601

FLOOR PLANS, BLDG. 100, 200, 300, 400, WALL TYPES

HORACE MANN MODERNIZATION
BAKERSFIELD CITY SCHOOL DISTRICT
2710 NILES AVENUE
BAKERSFIELD, CALIFORNIA 93307

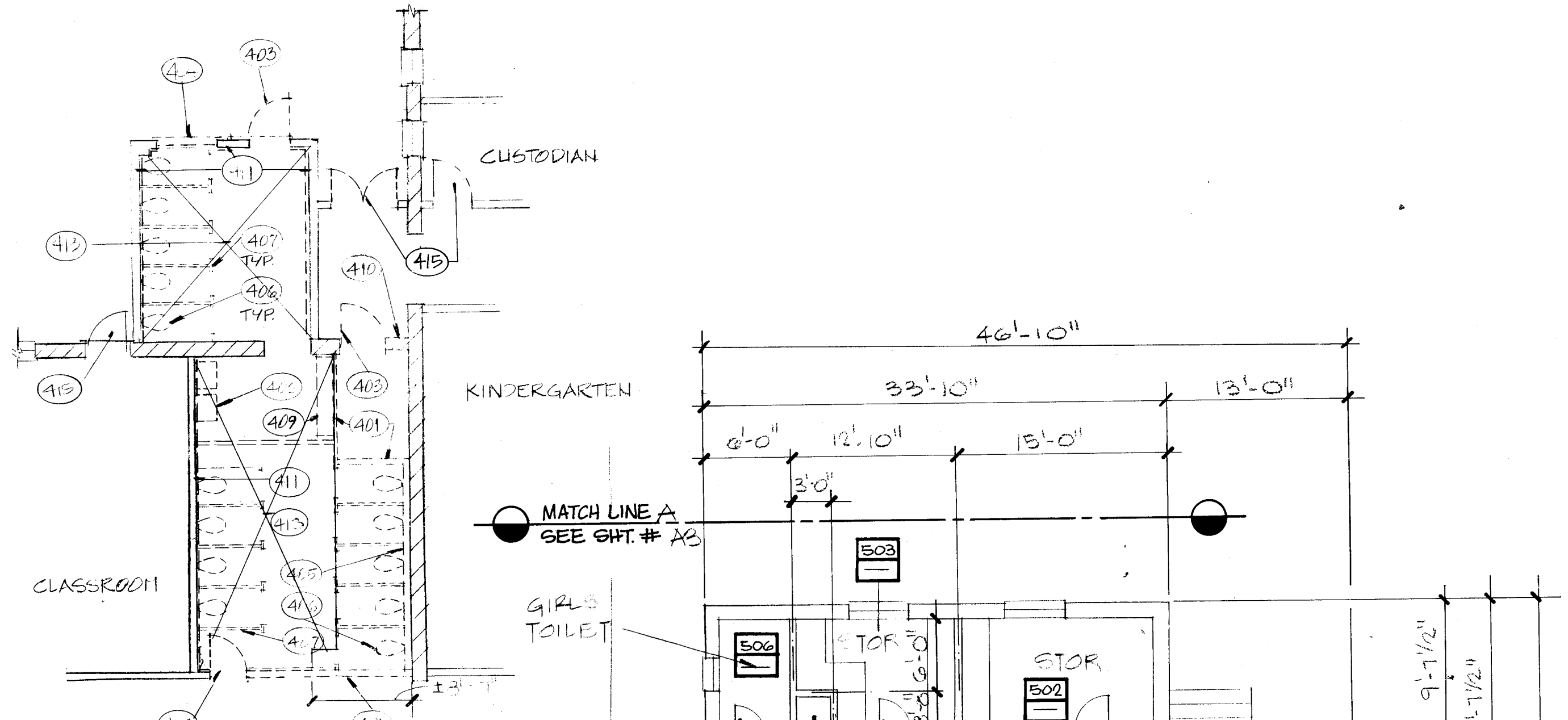
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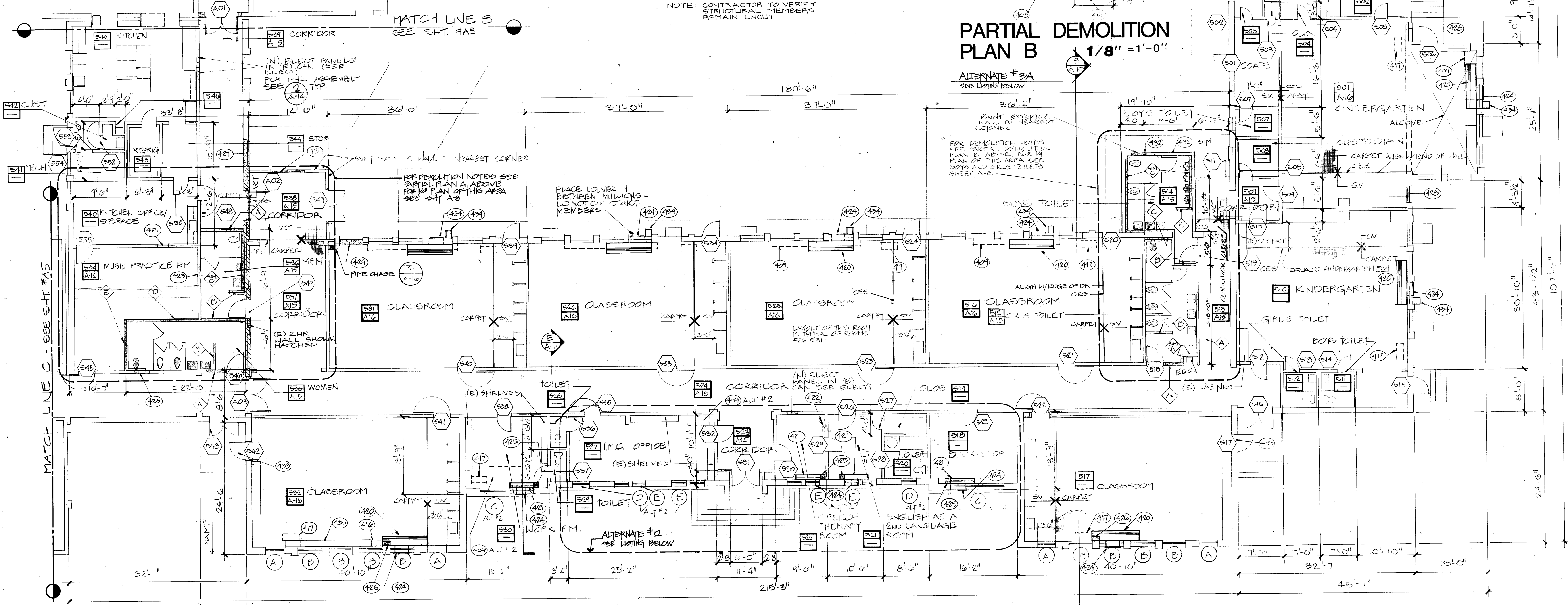


DEMOLITION KEY NOTES

- 401 REMOVE (E) WALLS SHOWN DOTTED
- 402 REMOVE (E) WALL AS REQUIRED FOR NEW DOOR FRAME
- 403 REMOVE (E) DOOR, FRAME AND HARDWARE
- 404 REMOVE (E) WINDOW
- 405 REMOVE (E) WALL FURRING
- 406 SEE PLUMBING DRAWINGS FOR REMOVAL OF (E) PLUMBING FIXTURES. FIXTURES IN THE BEST CONDITION ARE TO BE RELOCATED, EXCEPT URINALS
- 407 REMOVE (E) TOILET PARTITIONS AND ALL ACCESSORIES IN ROOM
- 408
- 409 REMOVE (E) CABINETS OF SHELVES (FORMERLY CHASE TO OLIVER)
- 410 REMOVE (E) BRICK AND/OR GUNITE WALL. SEE STRUCTURAL
- 411 REMOVE (E) PLASTER WALL FINISH TO HEIGHT JUST ABOVE (N) CEILING
- 412 REMOVE EXISTING DOUBLE WOOD FLOOR SHEATHING FOR (N) TILE SETTING BED. SEE DETAILS 5, 6, 6A AND 7, SHEET S-3.
- 413 REMOVE EXISTING CONCRETE FLOOR FOR (N) TILE SETTING BED AND WASTE LINES. SEE DETAIL 8, SHEET S-3.
- 414 REMOVE (E) CEILING (FINISH AND JOISTS).
- 415 SEE SHEET A-1 FOR REMOVAL OF DOOR
- 416 REMOVE (E) CABINET AND REVOLUCATE AS SHOWN. SEE INTERIOR ELEVATION INT A-10
- 417 SEE MECHANICAL FOR REMOVAL OF (E) FURNACE
- 418 PATCH TO MATCH (E) WHERE SA GRILL INSTALLED ABOVE IN WALL



NOTE: CONTRACTOR TO VERIFY STRUCTURAL MEMBERS REMAIN UNCLUT



BUILDING 500 FLOOR PLAN

ALTERNATE LISTING

- Alternate No. One (1) Additive:** The following items make up the total of Alternate No. One (Additive):
- A. Add the work required for the replacement of exterior doors, frames and hardware as indicated on the door schedule, in lieu of changing the key cylinders (See H-14).
 - B. Add all of the work shown on the drawings in Room 510 Cafeteria - Multi-Purpose, other than work related to ceiling work, flooring, painting, all electrical work and plumbing work. **MANICAPACAPING CHAIRS, PUMPS, ETC... ARE NOT INCLUDED AS AN ALTERNATE.**
- Alternate No. Two (2) Additive:** The following items make up the total of Alternate Number Two (Additive):
- Add the following work in Rooms 518, 520, 521, 522, 527 and 530:
 - Add the replacement of exterior windows.
 - Add all of the flooring work indicated.
 - Add all of the ceiling work including electrical and mechanical work.

Alternate No. Three (3) Additive: The following items make up the total of Alternate No. Three (Additive):

- A. Add carpeting in lieu of VCT (Base Bid) in the following corridors: 513, 523, 524, 537, 539, 603, 604 and 701.

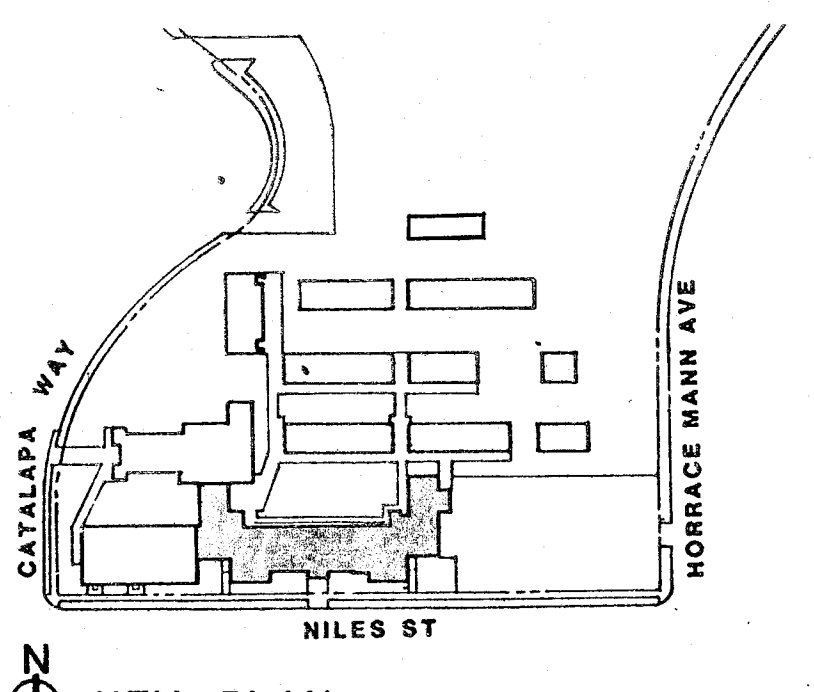
GENERAL NOTES

- 1. RELOCATE ALL (E) BATTERY POWERED CLOCKS IN ROOMS WITH (N) TILT CEILING TO 9'-0"

KEY NOTES

- 420 UNIT VENTILATOR, SEE MECHANICAL
- 421 FAN COIL UNIT, SEE MECHANICAL
- 422 INFILL OPENING WITH 2 X STUDS AND PATCH TO MATCH EXISTING ADJACENT SURFACES WHERE WALL FURNACE REMOVED.
- 423 INFILL OPENING WITH 2 X STUDS AND PATCH TO MATCH EXISTING ADJACENT SURFACES WHERE DOOR AND FRAME REMOVED.
- 424 NEW OPENING THROUGH (E) WALL FOR O.S.A. LOUVER, SEE DETAIL 10 SHEET A18
- 425 PIPE CHASE, SEE DETAIL 10 SHEET A16
- 426 PIPE CHASE, SEE DETAIL 3, SHEET A16
- 427 INFILL OPENING WHERE DOOR HAS BEEN REMOVED, SEE DETAIL 3, SHEET A-2
- 428 INFILL OPENING WHERE WINDOW HAS BEEN REMOVED, SEE DETAIL 5, SHEET A18.
- 429 INFILL OPENING WHERE WINDOW HAS BEEN REMOVED. SEE DETAIL 4, SHEET A18.
- 430 RELOCATED (E) CABINET
- 431 INFILL OPENING WHERE WINDOW HAS BEEN REMOVED SEE DET 1 SHT A-18
- 432 INFILL OPENING WHERE WINDOW HAS BEEN REMOVED SEE DET 2 SHT A-18
- 433 REMOVE WINDOW AND INFILL ABOVE (E) DOOR. SEE DET 15 SHT A-10 (BASE BID) IF ALT #11 DOOR ACCEPTED, INFILL PER DET 14 SHT A-10

434 SEE DETAIL 23 & 24 SHT A-18 FOR PIPE COVER



KEY PLAN

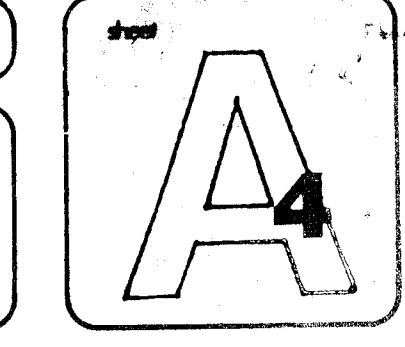
Application No. 77/50601

FLOOR PLAN, BLDG 500

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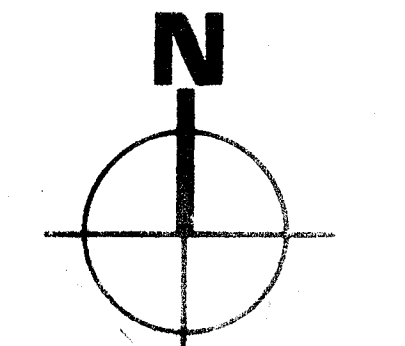
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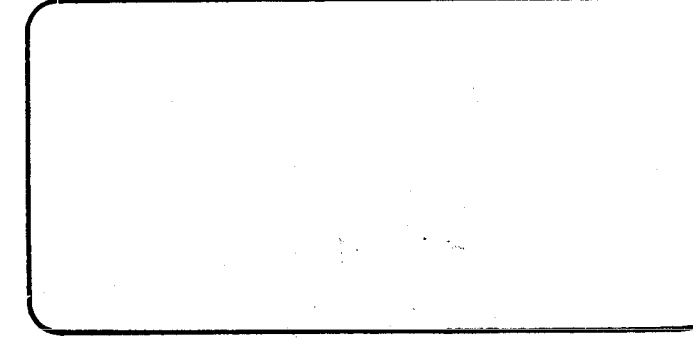
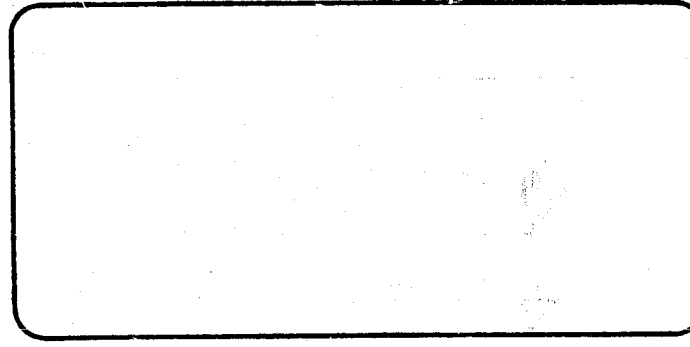
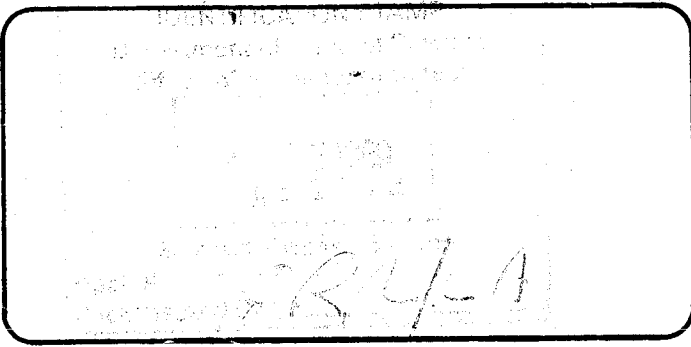
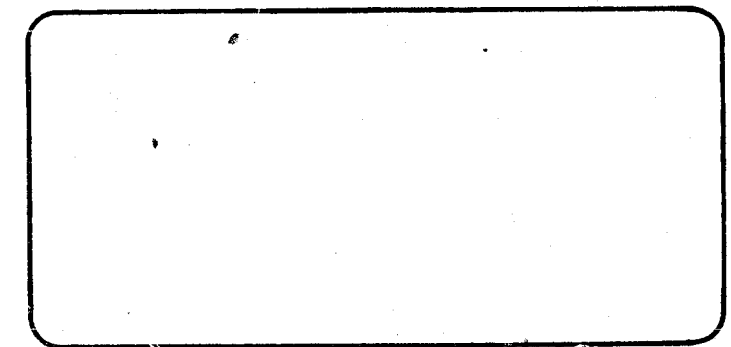
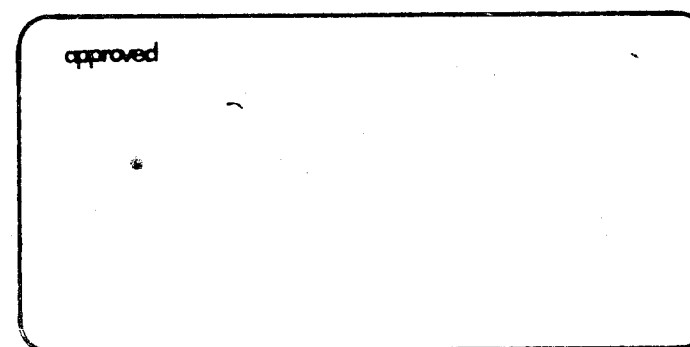
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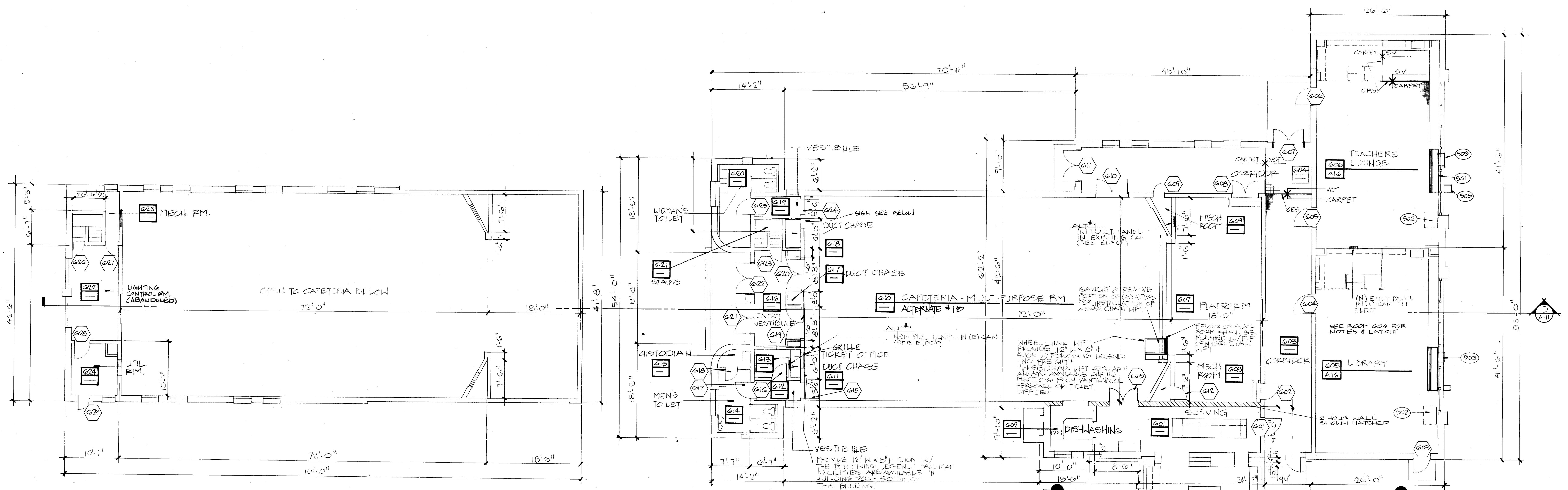
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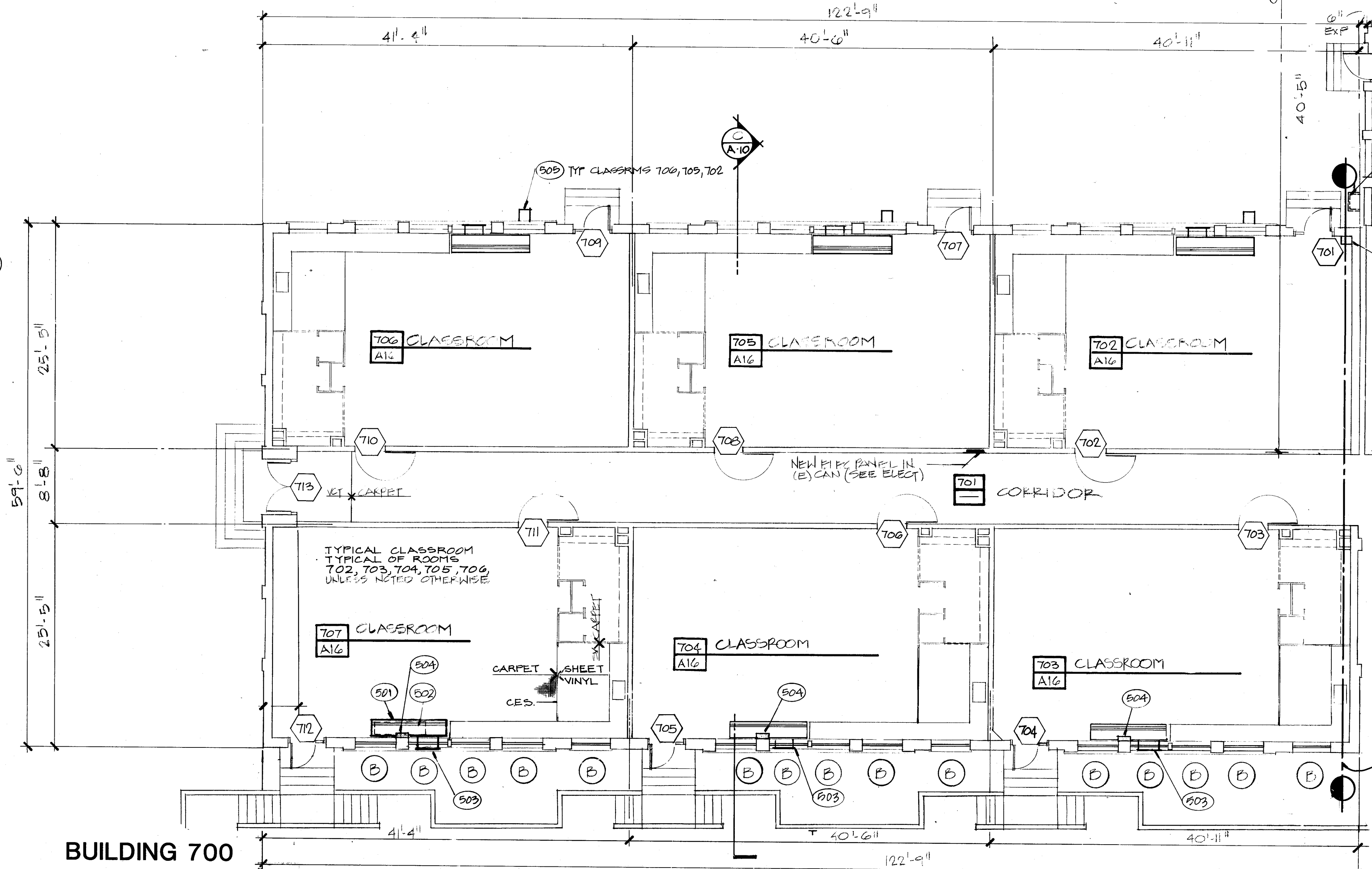


DR. CASTAL



BUILDING 600
SECOND FLOOR

BUILDING 600



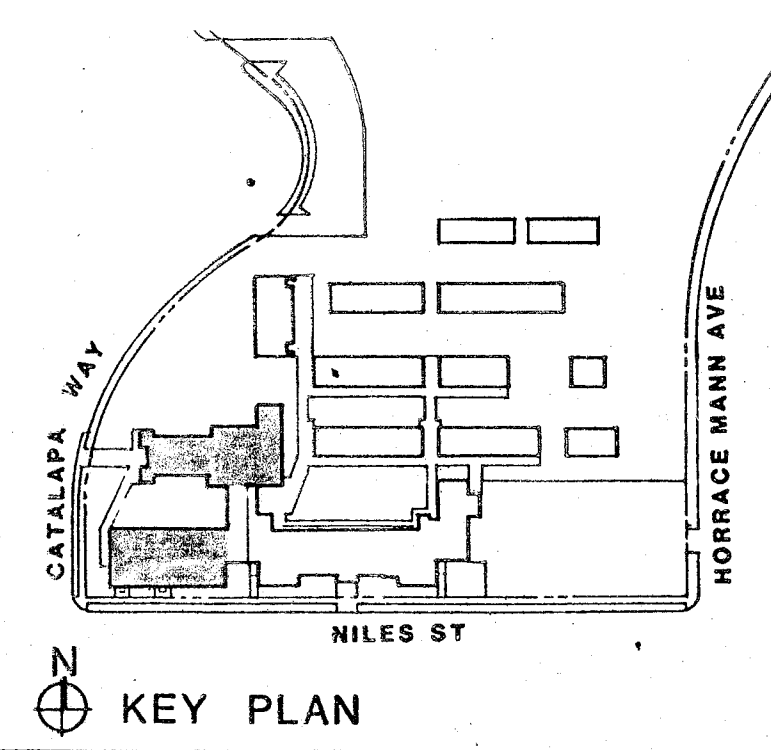
BUILDING 700

WORK OF ALTERNATE #1 (SEE SHT A-4 FOR WORK OF ALT #1 IN BLDG 600)
 A. REMOVE & REFACE EXTERIOR DOORS IN CLASSROOMS AND CORRIDORS. DOOR NUMBERS INCLUDE 603, 606, 607, 611, 701, 704, 705, 707, 709, 710, & 712
 B. MODERNIZE MULTI-PURPOSE ROOM 610
 a) PROVIDE (N) FLOOR FINISH
 b) PROVIDE (N) SUSP. ACOUSTIC TILE CLG & LIGHTS
 c) PROVIDE (N) EXHAUST COOLERS
 SEE SHT A-4 FOR REMAINDER OF ALTERNATES

REMOVE CONCRETE CURB FOR GRASS/PORE VENT, INFILLMENT BY BLOCK OR CONCRETE & PATCH (B) PAVING TO MATCH ADJACENT MECHANICAL PIPES FROM PIPE CHASE SHALL BE INSTALLED.

GENERAL NOTES
 1. BELUCATE ALL (E) BATTERY POWERED CLOCKS IN ROOMS WITH (N) AT CEILING TO 4'-0" OR AS DIRECTED BY ARCHITECT

KEY NOTES
 501 UNIT VENTILATOR, SEE MECHANICAL
 502 REMOVE (E) PURNACE, SEE MECHANICAL
 503 NEW OPENING THROUGH (E) WALL FOR O.S.A. LOUVER, SEE DETAIL 11, SHEET A16, CENTER ON WINDOW ABOVE U.N.O.
 504 PIPE CHASE, SEE DETAIL 3, SHEET A16
 505 PIPE COVER SEE DTL M/MF-B



FLOOR PLANS

Application No. 77/50601

FLOOR PLANS, BLDGS. 600 & 700 1/2" = 1'-0" job 21-127
HORACE MANN MODERNIZATION
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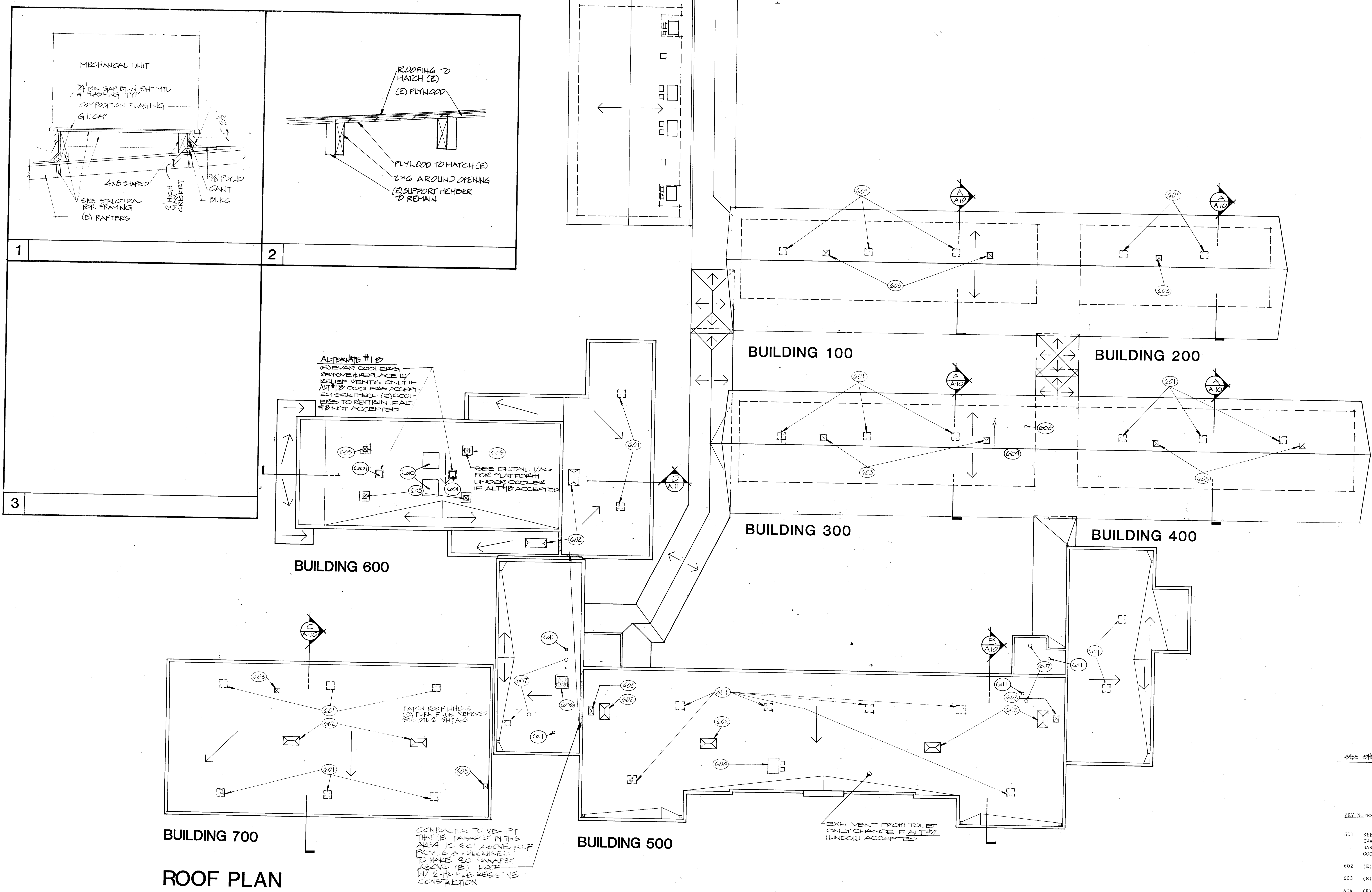
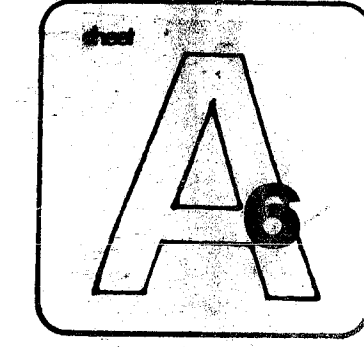
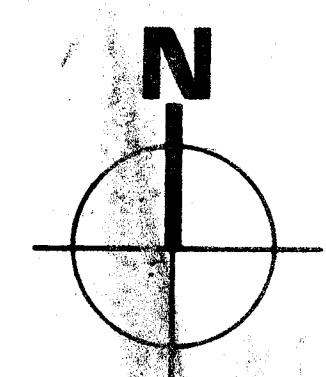
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ROOF PLAN

SEE SHEET 101 FOR LISTING OF ALTERNATES

- KEY NOTES**
- 601 SEE MECHANICAL DRAWINGS FOR REMOVAL OF (E) EVAPORATIVE COOLER AND INSTALLATION OF NEW BAROMETRIC RELIEF DAMPERS WHERE THE (E) COOLER DUCTS PENETRATE THE ROOF.
 - 602 (E) SKYLIGHT
 - 603 (E) ROOF HATCH
 - 604 (E) A.C. UNIT
 - 605 ALT #1 EVAPORATIVE COOLERS - SEE MECHANICAL.
 - 606 NEW HEATING/COOLING UNIT - SEE MECHANICAL SEE DETAIL 1, SHEET A6 FOR MOUNTING PLATFORM
 - 607 NEW EXHAUST FAN DUCT WITH ROOF CAP - SEE MECHANICAL.
 - 608 BOILER FLUE - SEE MECHANICAL
 - 609 AIR INTAKE - SEE MECHANICAL
 - 610 RELIEF VENT - SEE MECHANICAL
 - 611 PLUMBING VENT THROUGH ROOF

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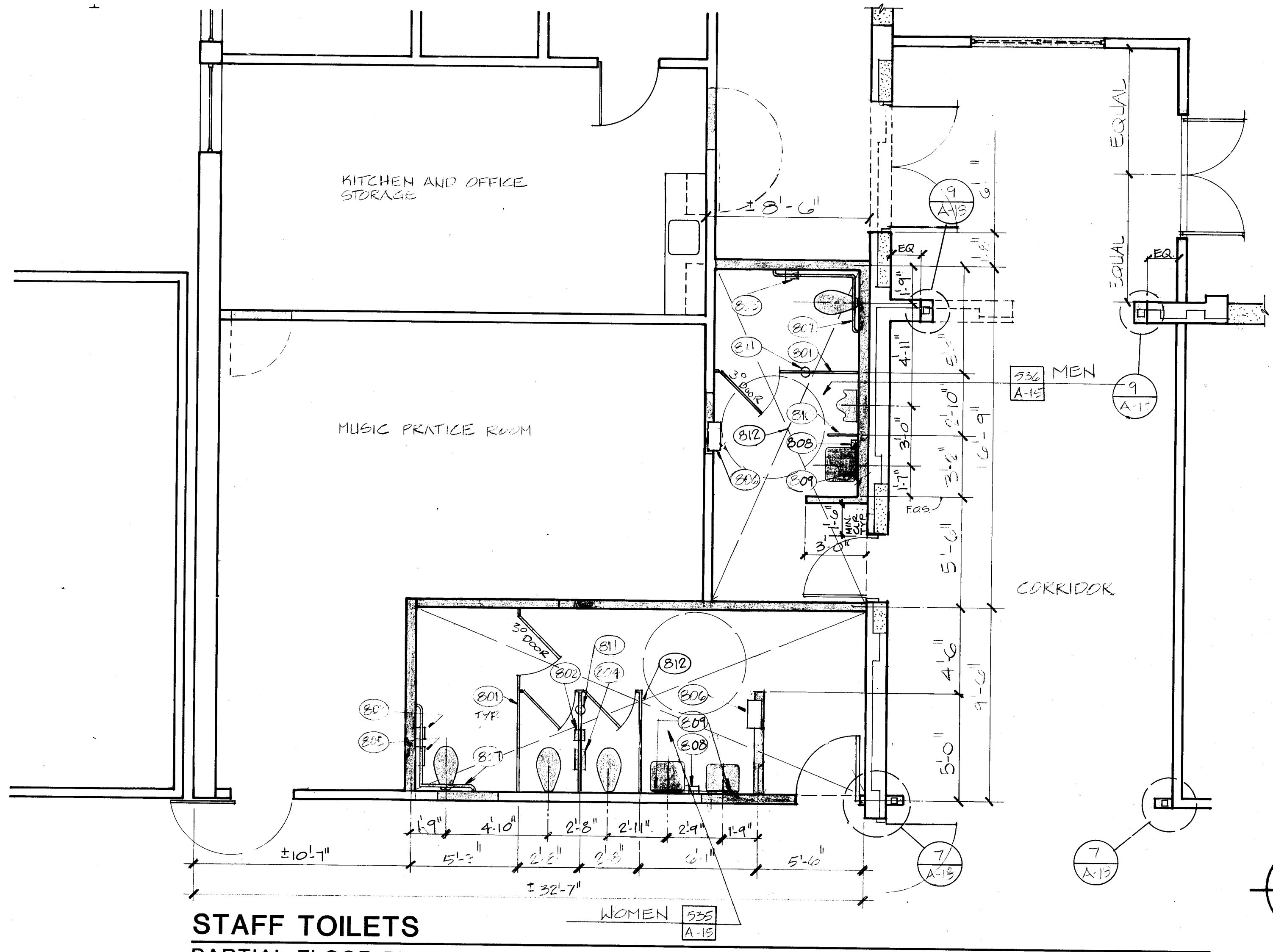
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ROOF PLAN 1/6"=1'-0"
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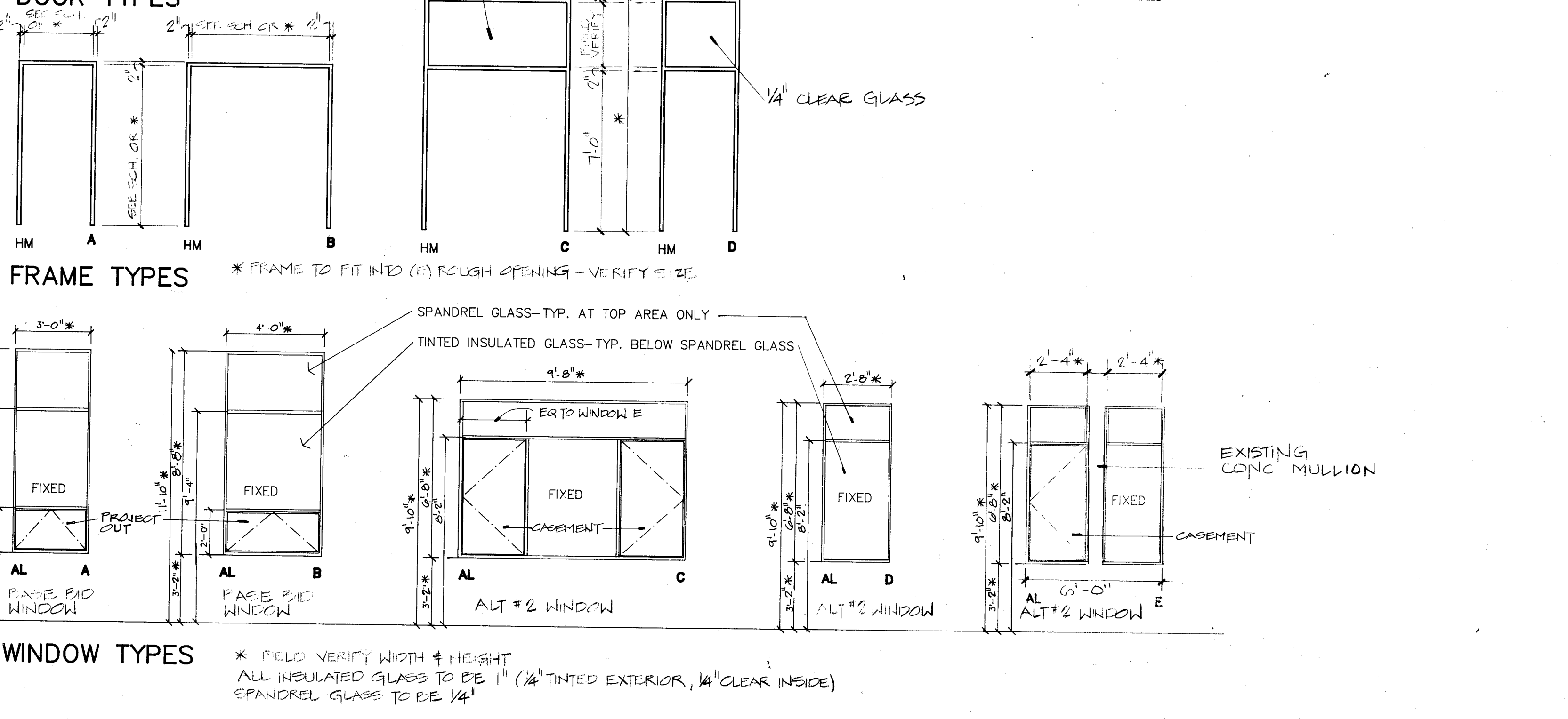
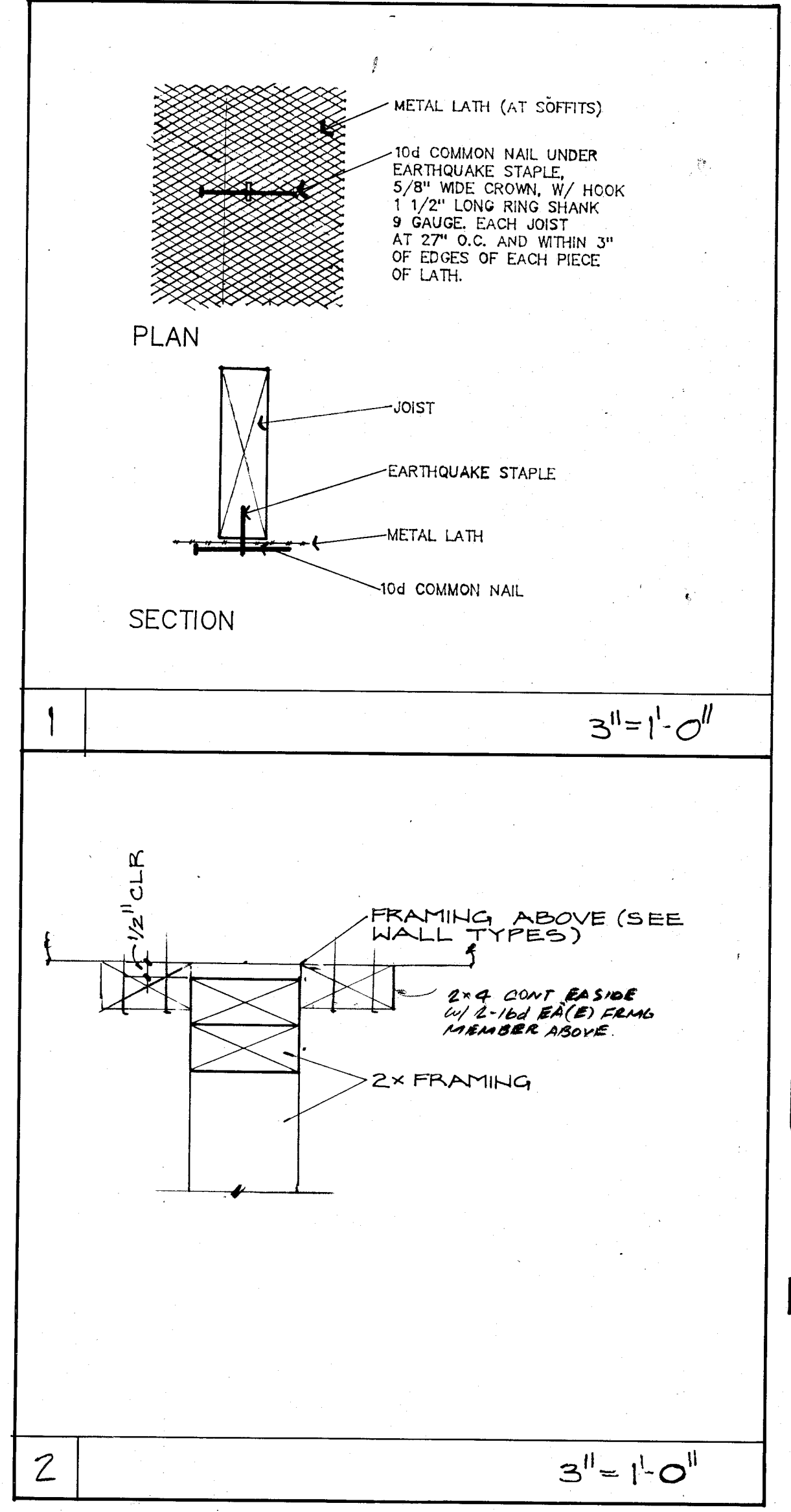
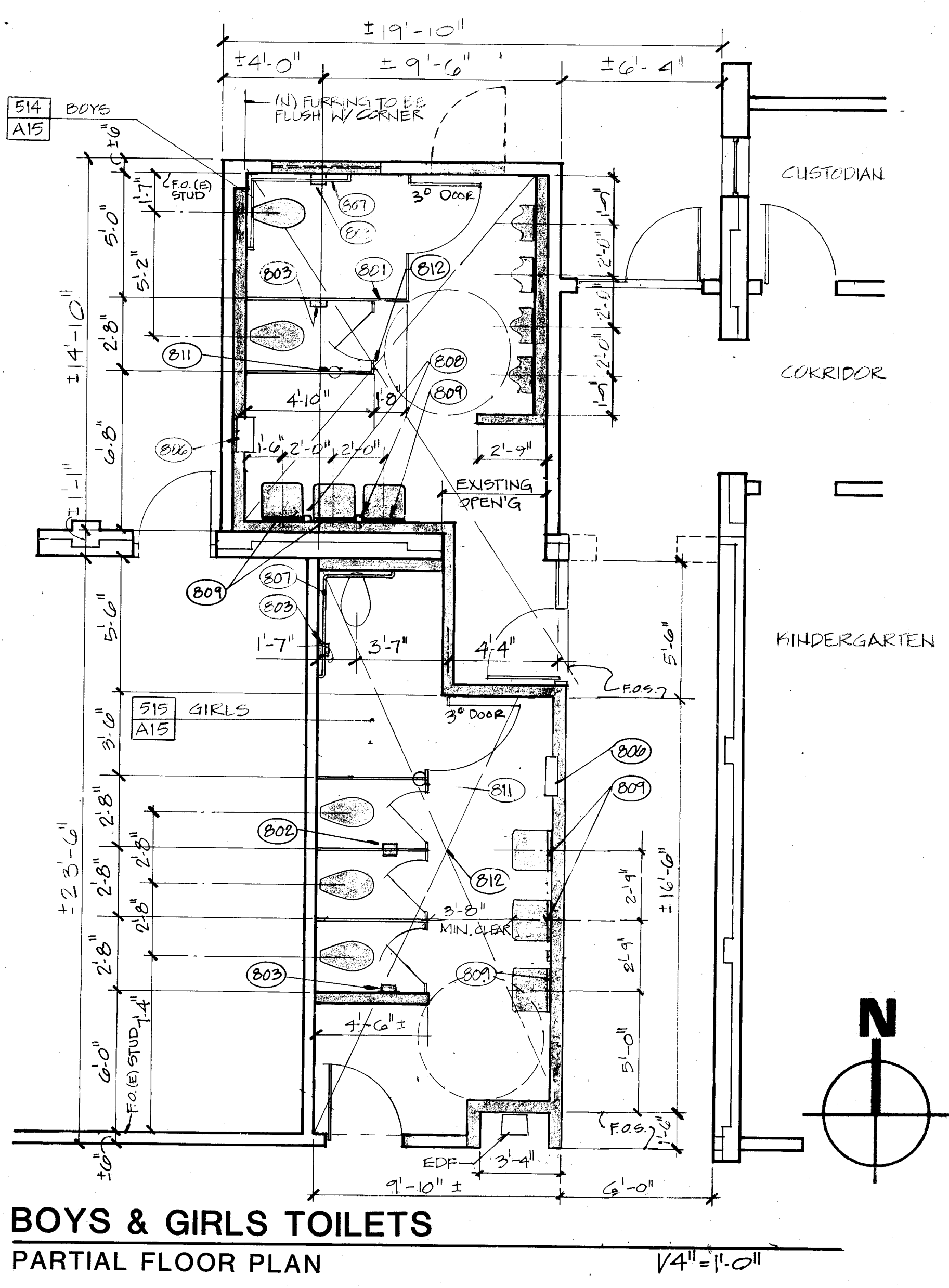
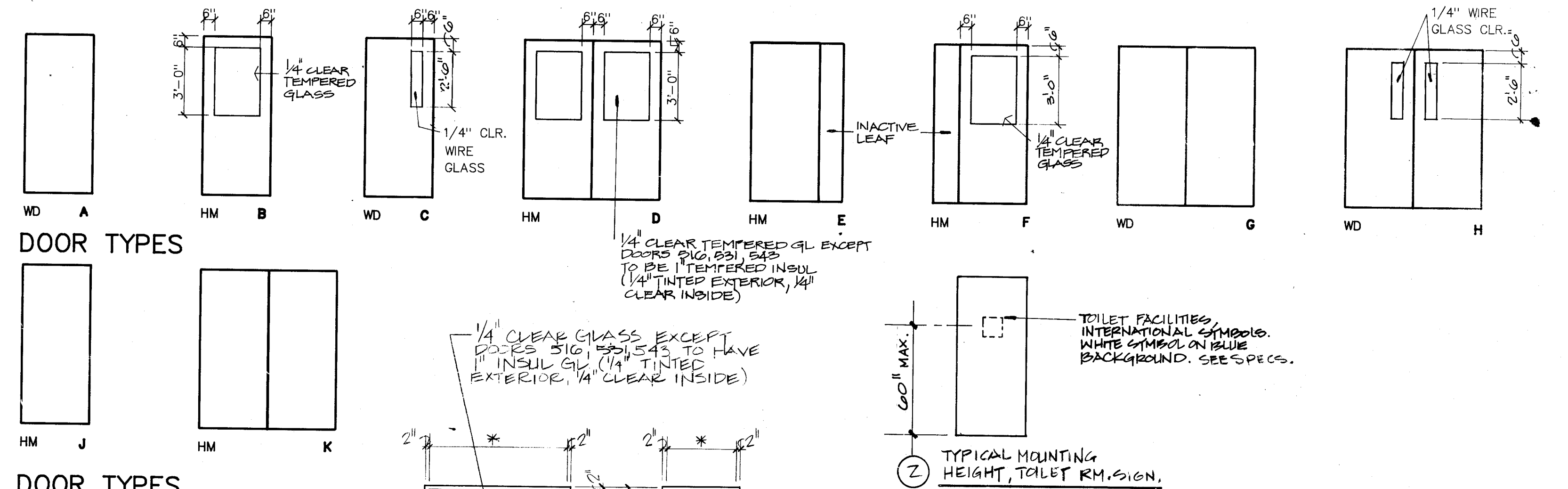
job B7-127
 date FEB 89

DOOR AND FRAME SCHEDULE

DOOR NUMBER	DOOR						FRAME				PERIOD	HARDWARE SET DOSE BID ADJ. #1	HARDWARE SET ADJ. #2	SIGN	REMARKS NOTE: FOR GENERAL NOTES, SEE SHEET A-7	DOOR NUMBER
	TYPE	SIZE		LOUVER		TYPE	DETAILS									
		EACH ACTIVE LEAF	H	EACH INACTIVE LEAF	W		H	LEFT JAMB	HEAD	RIGHT JAMB						
628															628	
629															629	
701	F	3'-0"	7'-0" ±	1'-0" ±		B	20/A-17	20/A-17	20/A-17			35	33	KEYNOTE A	701	
702	C	3'-4" ±	7'-0" ±							20 MIN.		12		KEYNOTE B	702	
703	C	3'-4" ±	7'-0" ±							20 MIN.		12		KEYNOTE B	703	
704	E	3'-0"	7'-0" ±	1'-0" ±		B	20/A-17	20/A-17	20/A-17			35	33	KEYNOTE A	704	
705	E	3'-0"	7'-0" ±	1'-0" ±		B	20/A-17	20/A-17	20/A-17			35	33	KEYNOTE A	705	
706	C	3'-4" ±	7'-0" ±							20 MIN.		12		KEYNOTE B	706	
707	F	3'-0"	7'-0" ±	1'-0" ±		B	20/A-17	20/A-17	20/A-17			35	33	KEYNOTE A	707	
708	C	3'-4" ±	7'-0" ±							20 MIN.		12		KEYNOTE B	708	
709	F	3'-0"	7'-0" ±	1'-0" ±		B	20/A-17	20/A-17	20/A-17			35	33	KEYNOTE A	709	
710	C	3'-4" ±	7'-0" ±							20 MIN.		12		KEYNOTE B	710	
711	C	3'-4" ±	7'-0" ±							20 MIN.		12		KEYNOTE B	711	
712	E	3'-0"	7'-0" ±	1'-0" ±		B	20/A-17	20/A-17	20/A-17			35	33	KEYNOTE A	712	
713	D	3'-0"	7'-0"			C						27	5	KEYNOTE A	713	
S01	K	5'-10"	7'-10"			B	8/A-17	8/A-17	8/A-17			30			S01	
AO1	K	3'-0"	7'-0"			B	3/A-12	3/A-12	3/A-12	1/2 HR		39			AO1	
AO2	K	3'-0"	7'-0"			B	7/1M/A-12	7/1M/A-12	7/1M/A-12	1/2 HR		39			AO2	
AO3	K	3'-0" *	7'-10"			E	7/1M/A-12	3/1M/A-12	7/A-12	1/2 HR		39		* VERIFY IN FIELD HOWE WITH DOOR W/IT TO FIT INTO (B) OPENING	AO3	



- KEY NOTES**
- 801 TOILET PARTITION
 - 802 PARTITION MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER (SERVES TWO COMPARTMENTS)
 - 803 SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER
 - 804 PARTITION MOUNTED SANITARY NAPKINS DISPOSAL FOR TWO TOILET COMPARTMENTS
 - 805 SURFACE MOUNTED SANITARY NAPKINS DISPOSAL
 - 806 RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
 - 807 36" X 48" GRAB BAR - SEE DET. 1/A12
 - 808 SURFACE MOUNTED POWDERED SOAP DISPENSER
 - 809 FRAMED 18" X 36" MIRROR
 - 810 18" X 42" URINAL SCREEN
 - 811 FLOOR DRAIN
 - 812 FLOOR DERESSED + 1 1/2" FOR NEW CERAMIC TILE, SEE STRUCTURAL



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DOOR & FRAME SCHEDULE, WINDOW SCHEDULE & PARTIAL TOILET PLANS 1/4" = 1'-0" job 87-127 date FEB 89

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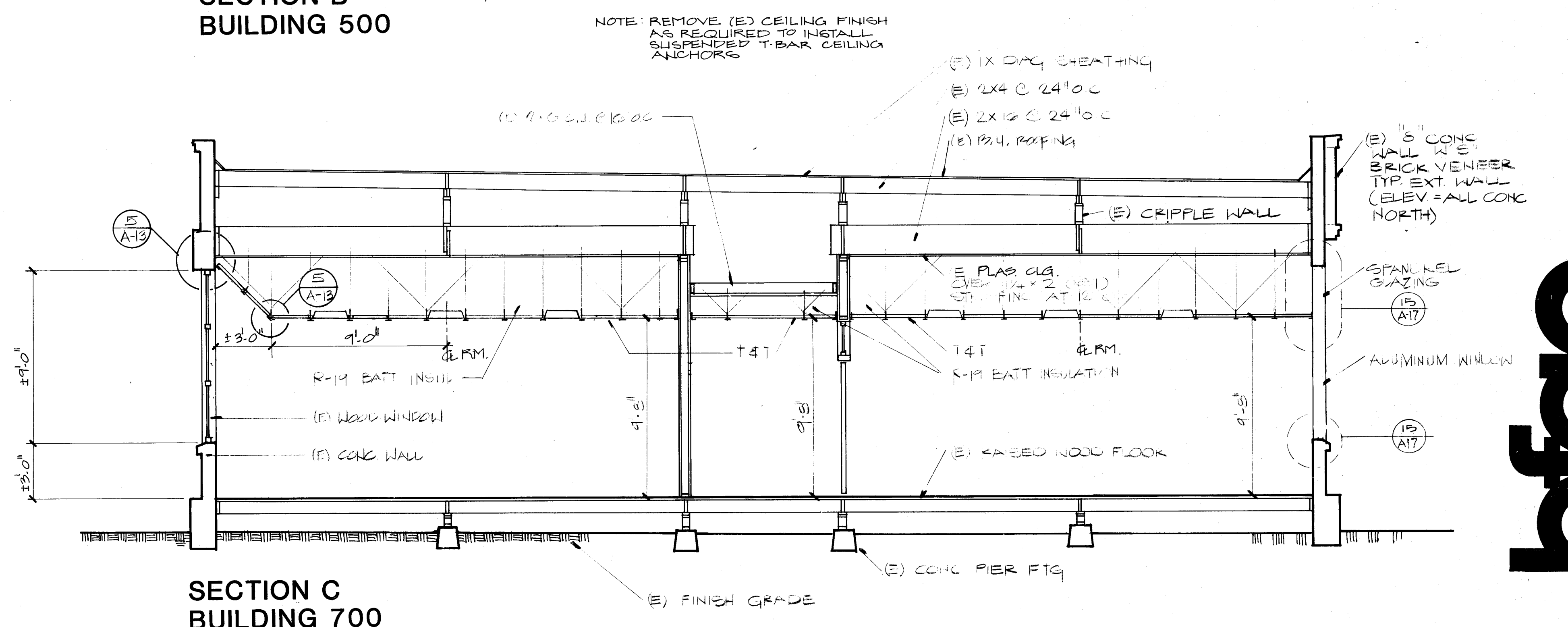
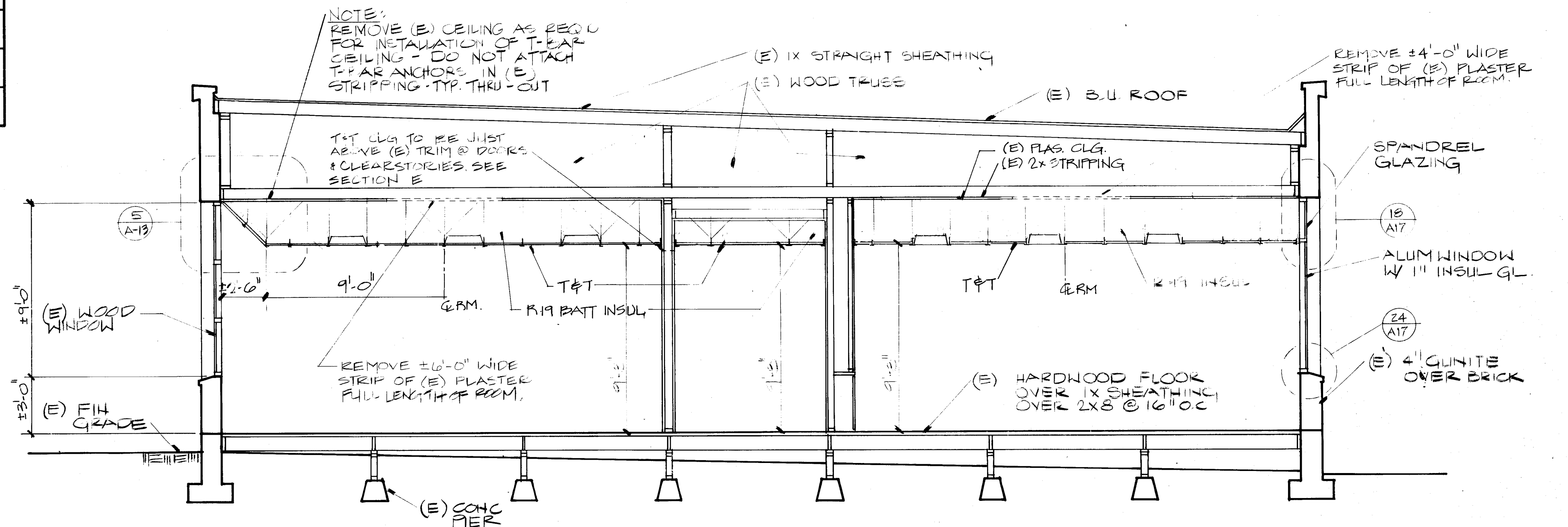
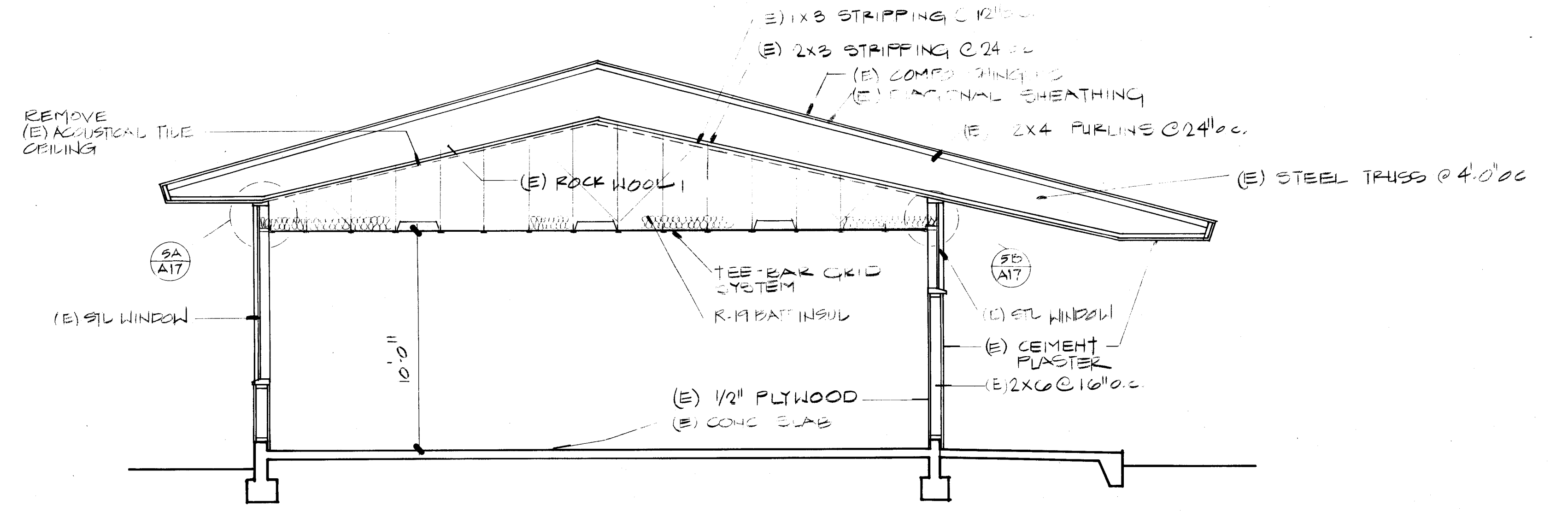
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ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR		BASE	NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING			NOTES	REMARKS	NUMBER
		MAT	FIN		MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	HT			
623	UTILITY ROOM															NO WORK	623	
701	CORRIDOR	C	UCT	INTG	INTG										9'-8" T&T	INTG	*ALTERNATE #22 SEE NOTE A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z	701
702	CLASSROOM	C	SU	INTG	INTG	(E)	E*								9'-8" T&T	INTG	SEE NOTE A & B/A/C *ALT #1A	702
703	CLASSROOM	C	SU	INTG	INTG			(E)	E						9'-8" T&T	INTG	SEE NOTE A & B/A/C	703
704	CLASSROOM	C	SU	INTG	INTG			(E)	E						9'-8" T&T	INTG	SEE NOTE A & B/A/C	704
705	CLASSROOM	C	SU	INTG	INTG	(E)	E*								9'-8" T&T	INTG	SEE NOTE A & B/A/C *ALT #1A	705
706	CLASSROOM	C	SU	INTG	INTG	(E)	E*								9'-8" T&T	INTG	SEE NOTE A & B/A/C *ALT #1A	706
707	CLASSROOM	C	SU	INTG	INTG			(E)	E						9'-8" T&T	INTG	SEE NOTE A & B/A/C	707
708																		708
709																		709
710																		710
711																		711
712																		712
713																		713

- GENERAL PAINTING NOTES**
1. Paint new doors in new frames with transparent finish and new frames with enamel.
 2. Paint new doors in existing frames with transparent finish and paint existing frames with enamel.
 3. Paint Alt #1A doors and frames including trim with enamel if Alt #1A is accepted.
- KEY REMARK NOTES**
- A. Painting of this room is not required except 1) where noted in the Finish Schedule 2) a new item has been installed 3) an existing finish has been disturbed or exposed. See General Painting Notes and additional Key Remark Notes for items that need painting.
- B. Paint the existing wood base with enamel around the entire room. See Detail 13 Sheet A8.
- C. Paint the sheet metal cover per Detail 3 Sheet A17 with enamel. Paint the existing doors and frames (exterior & interior) where the hardware has been changed with enamel. Paint the existing modified cabinet with enamel to the nearest corner. Paint the existing window sill on the north side with enamel.
- D. Paint infill above doors if Alt #2 accepted. See Detail 13 Sheet A18
- E. ALT #2. ADD THE FOLLOWING WORK @ RWD INDICATED:
 -REPLACEMENT OF EXTERIOR WINDOWS
 -ALL OF THE WORK INDICATED
 -ALL CEILING WORK INCLUDING ELECTRICAL & MECHANICAL WORK
- F. ALT #2A. ADD THE FOLLOWING WORK @ RWD INDICATED INCLUDING BUT NOT LIMITED TO: PENICILIN WALL INFILL, ALL FINISHES, ALL PLUMBING, MECHANICAL & ELECTRICAL WORK AND ALL TOILET ACCESSORIES
- G. ALT #2B. ADD CARPETING IN LIEU OF VOTERAGE BID @ CORRIDORS INDICATED.



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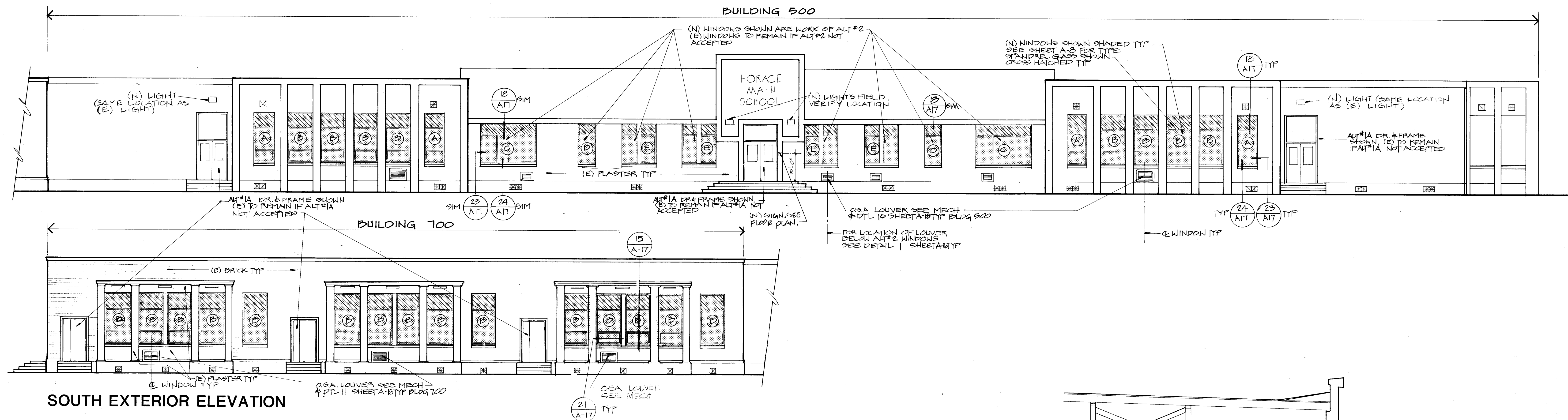
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ROOM FINISH SCHEDULE & SECTIONS 1/4" = 1'-0"

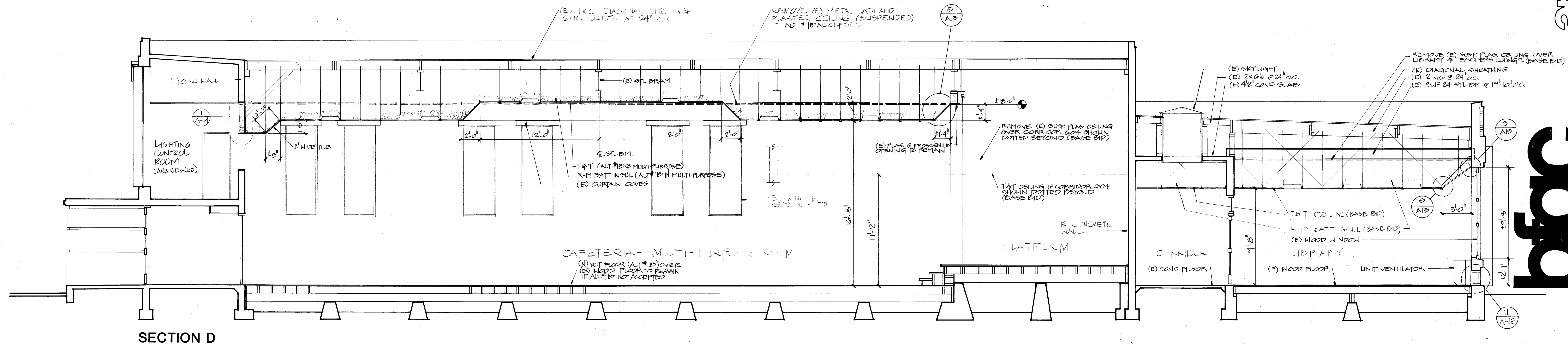
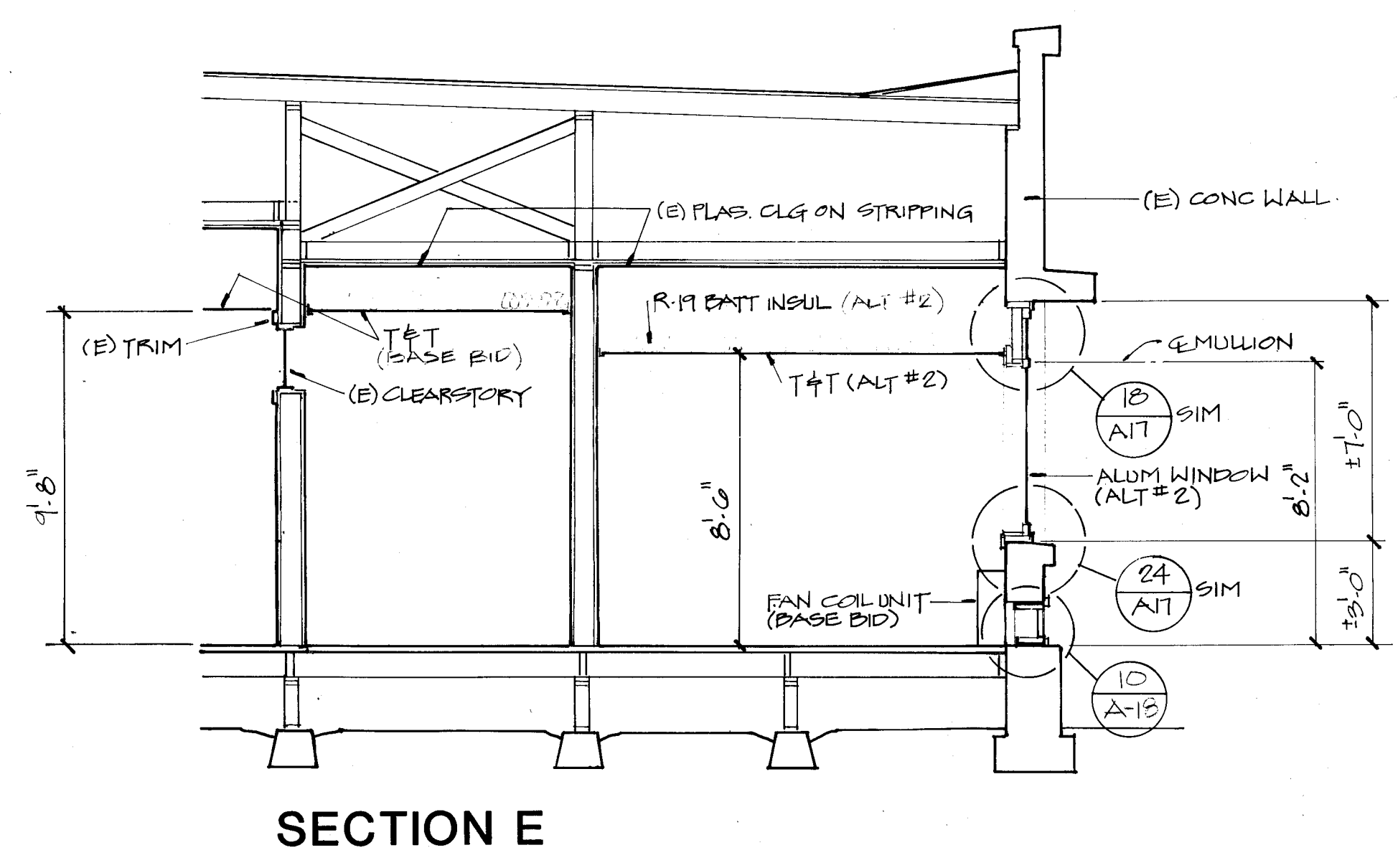
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SEE SHEET 1A4 FOR ALTERNATE LISTING



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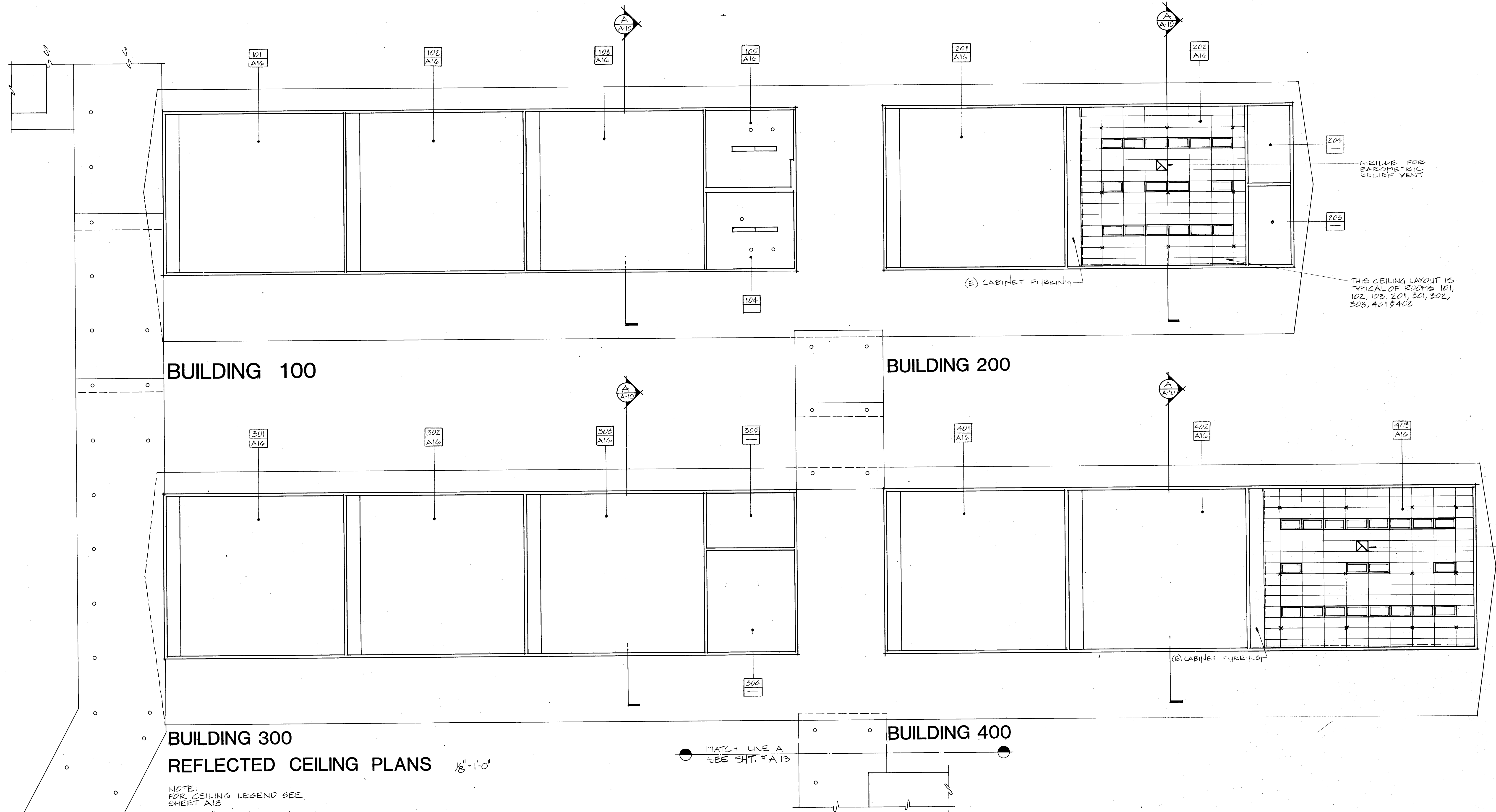
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SECTIONS & SOUTH EXTERIOR ELEVATION 1/4" = 1'-0"

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BAKERSFIELD, CALIFORNIA 93307

job 87-127
date 1 FEB 87

A-1



BUILDING 100

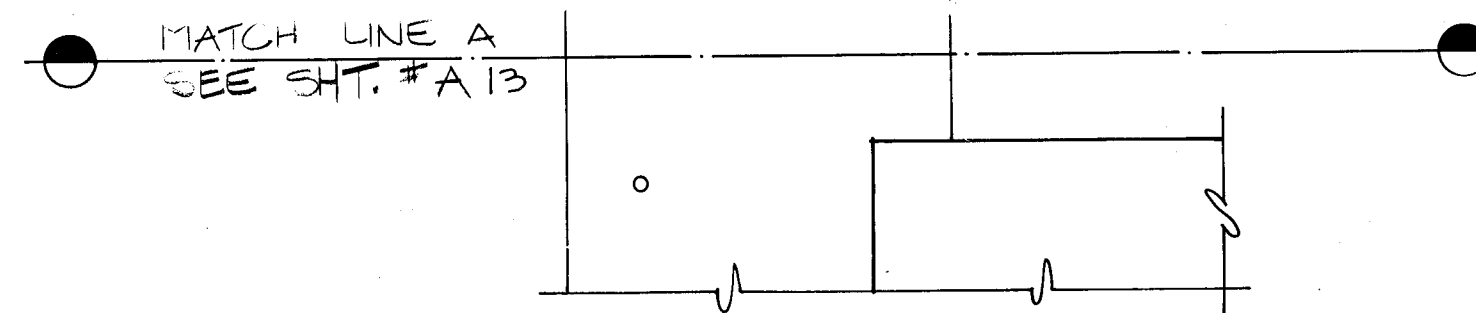
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BUILDING 300

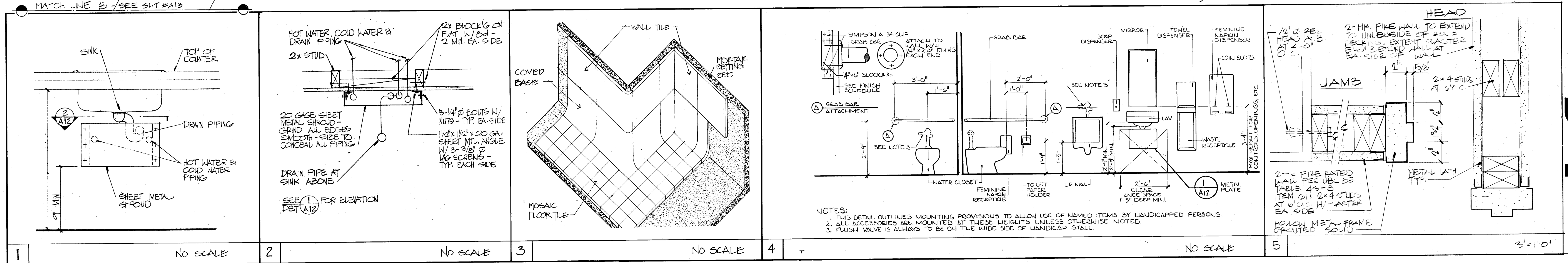
BUILDING 400

REFLECTED CEILING PLANS 1/8" = 1'-0"

NOTE:
FOR CEILING LEGEND SEE SHEET A13
FOR ALTERNATE LIGHTING SEE SHEET A4

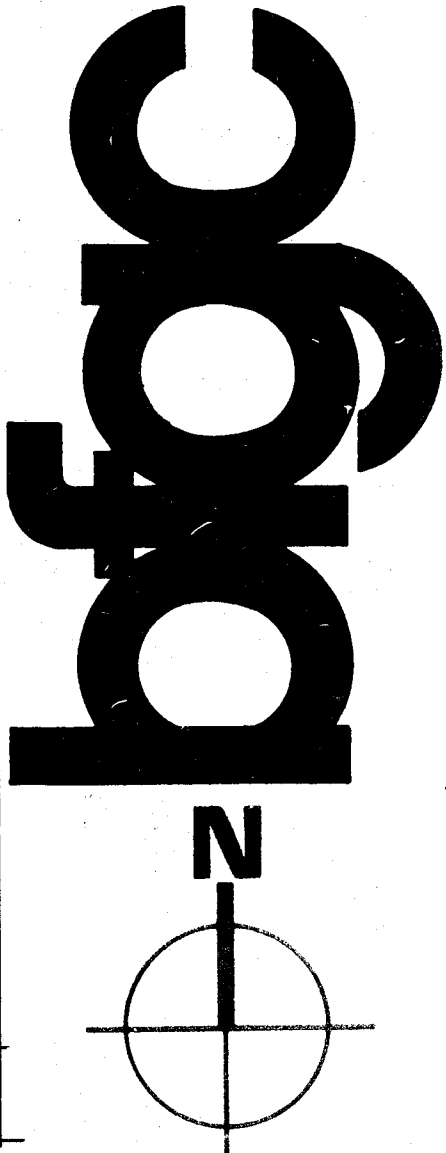


MATCH LINE B - SEE SHT. #A13



1 NO SCALE 2 NO SCALE 3 NO SCALE 4 NO SCALE 5 2" = 1'-0"

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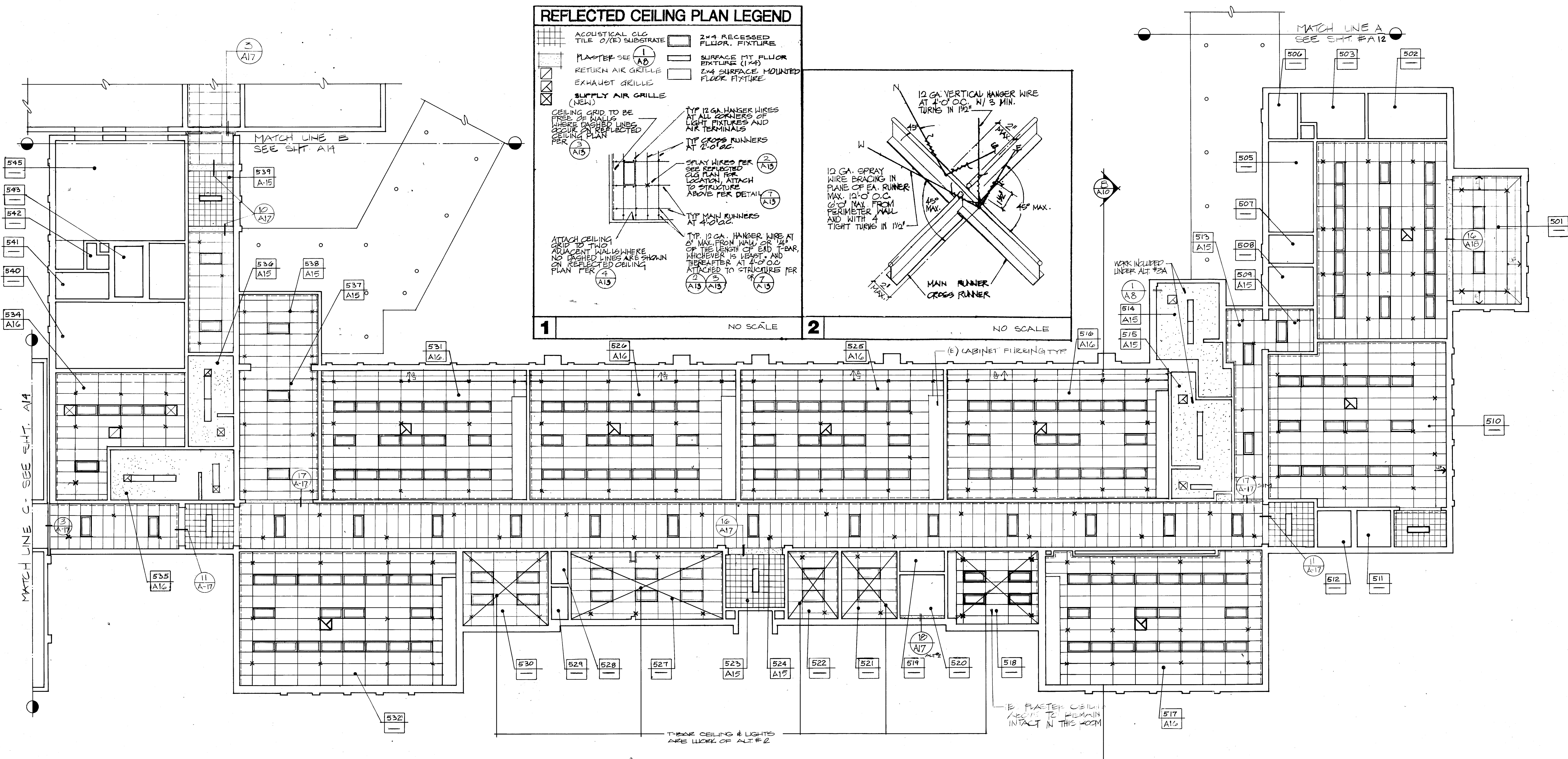
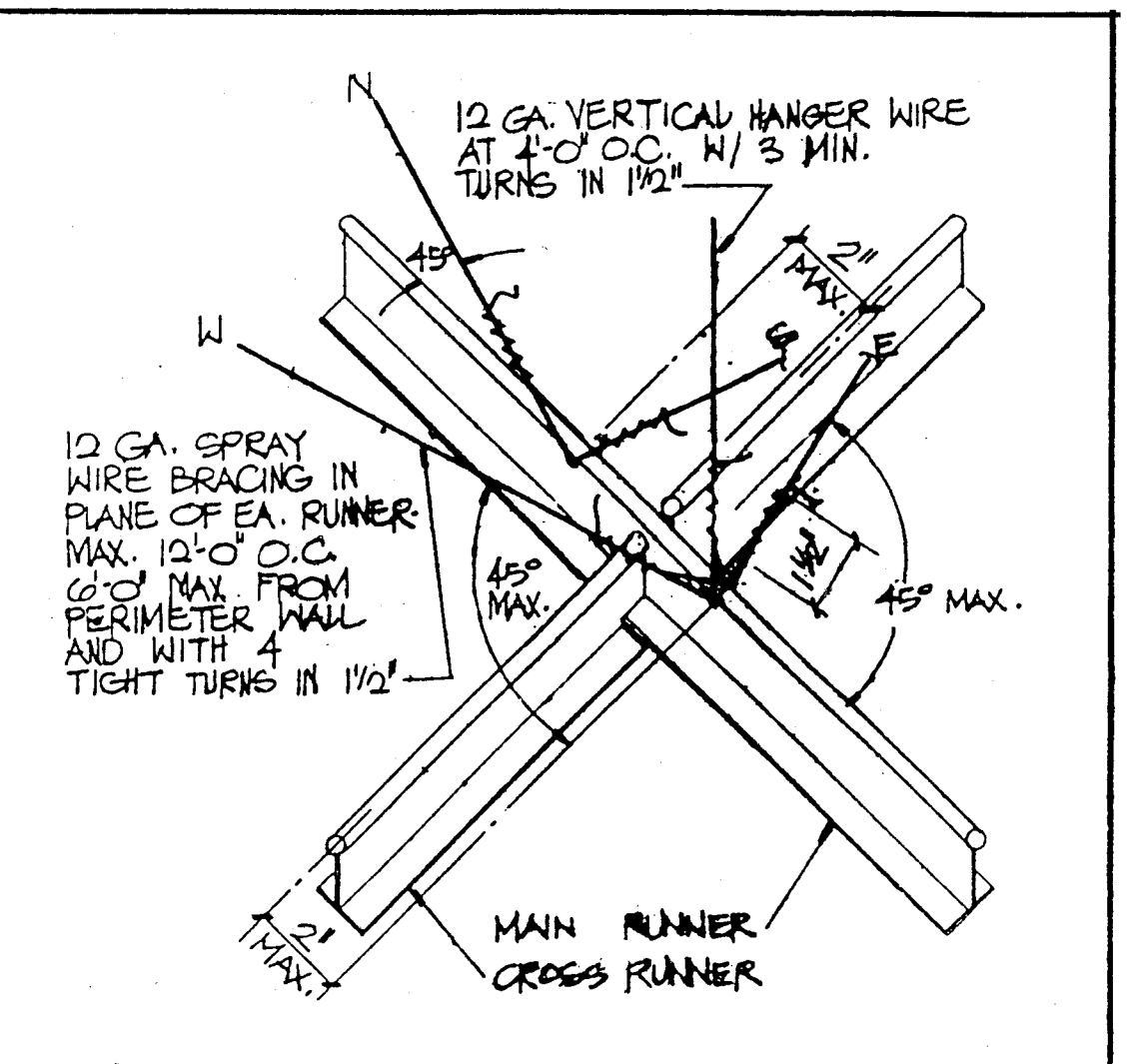
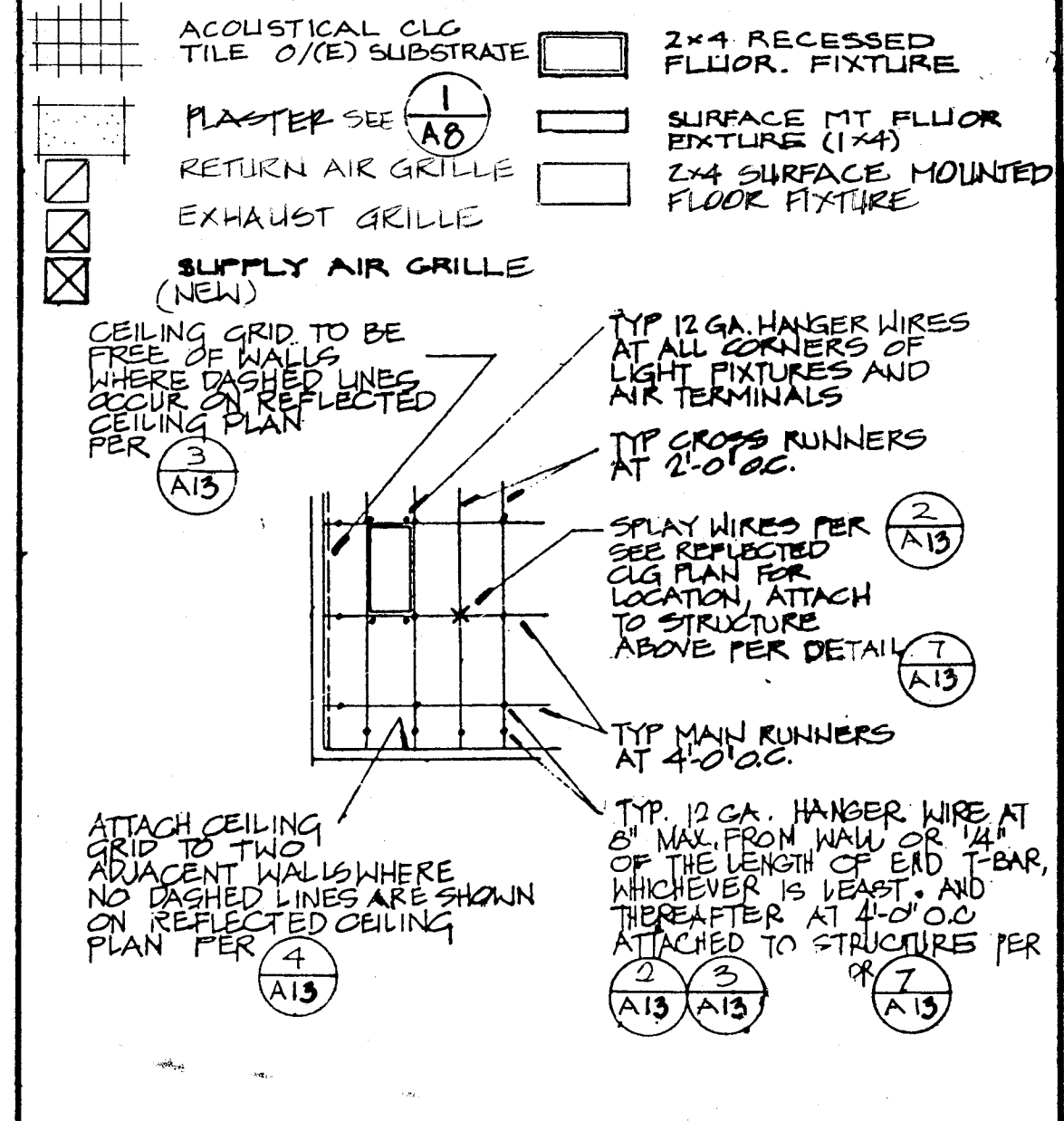
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REFLECTED CEILING PLAN, BLDGS. 100, 200, 300 & 400, DETAILS
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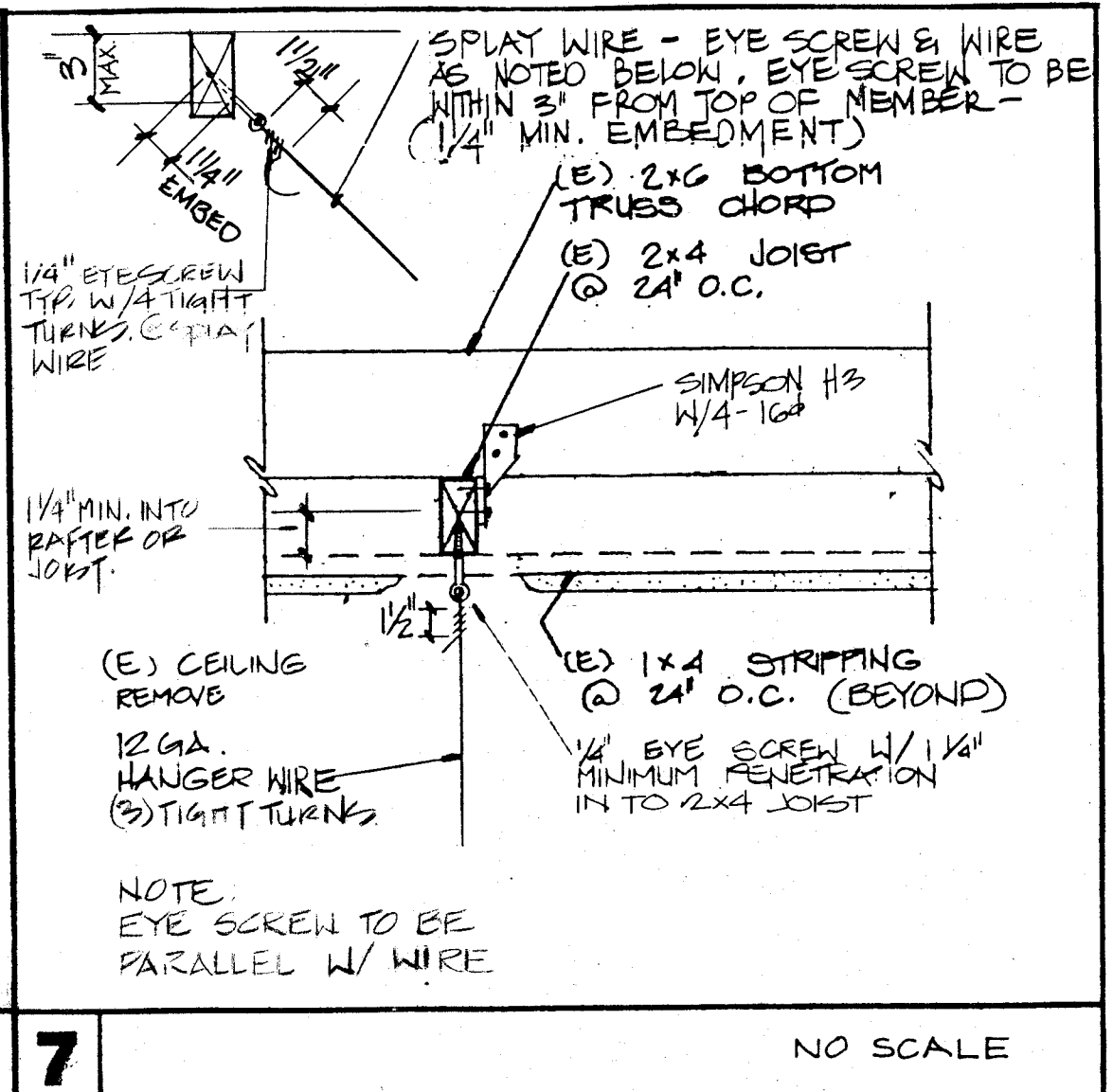
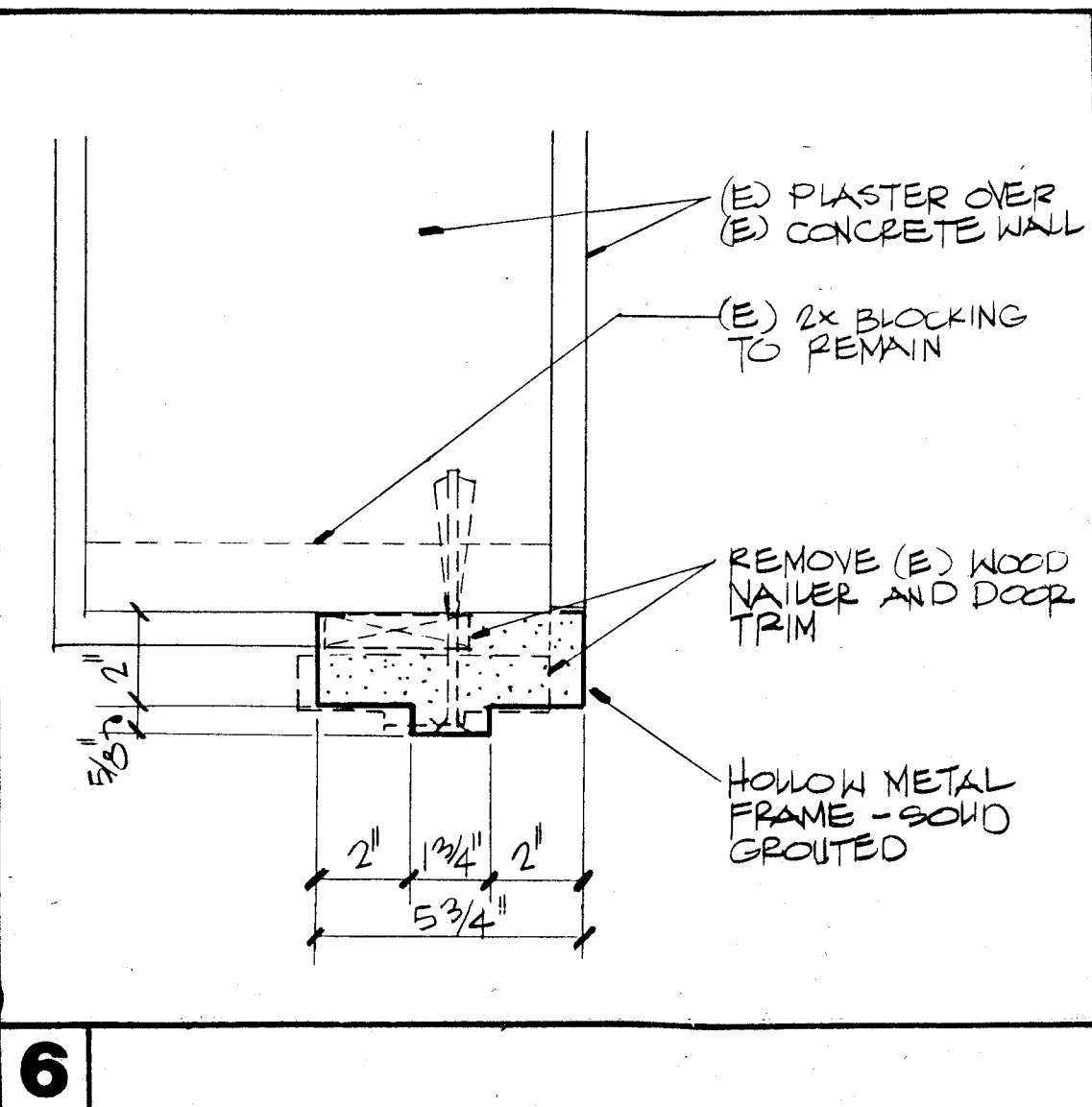
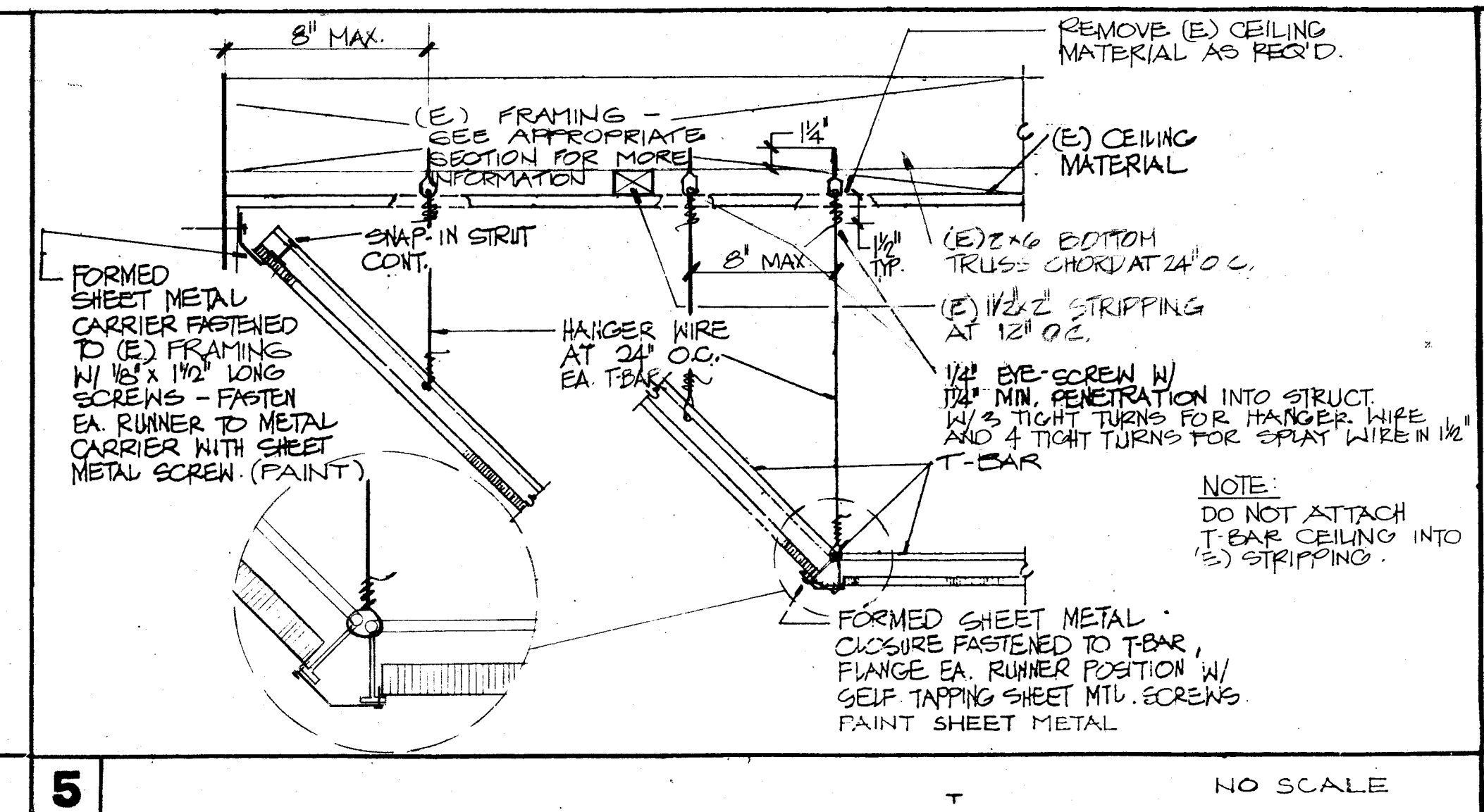
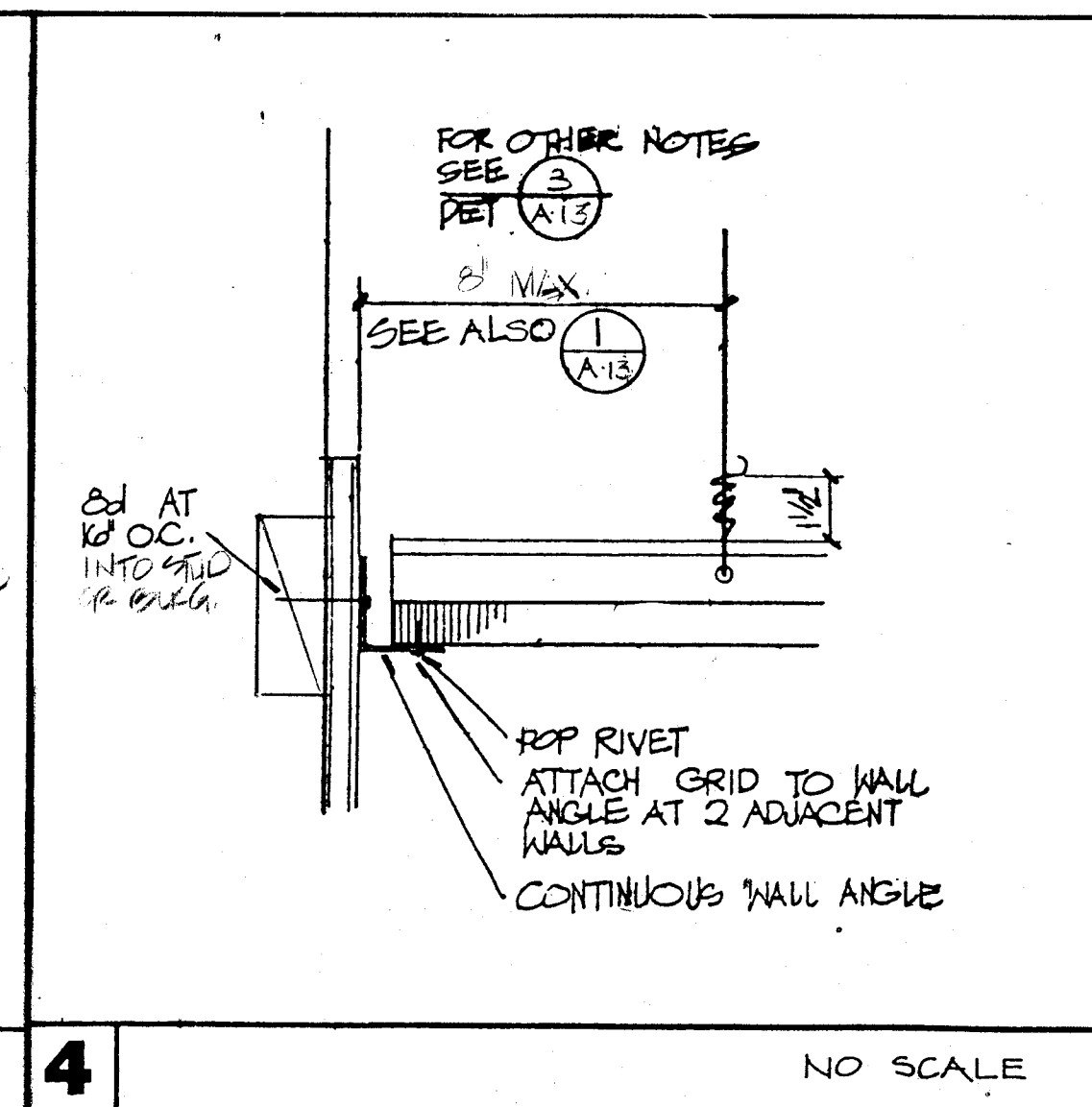
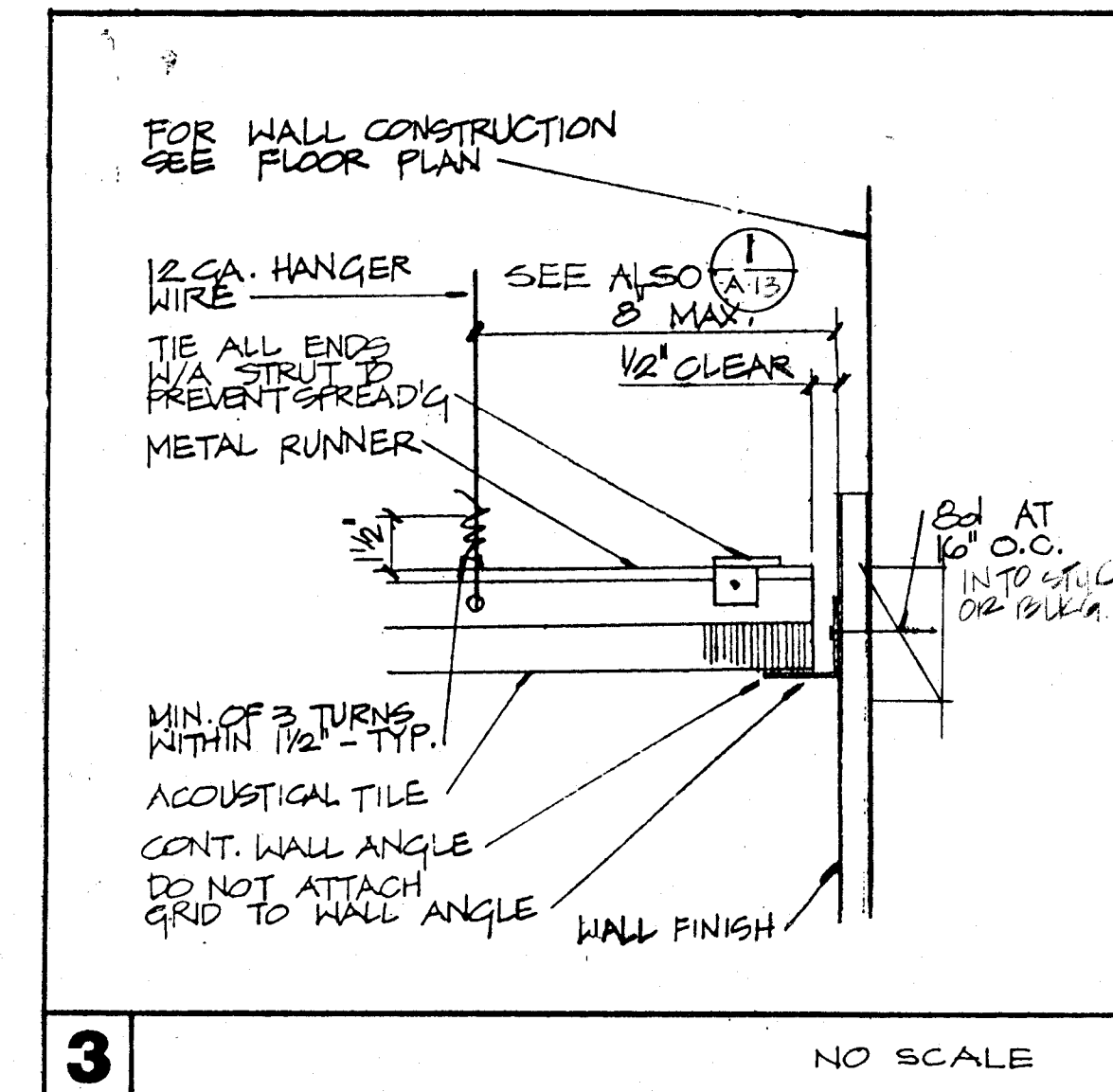
A12

REFLECTED CEILING PLAN LEGEND



BUILDING 500
REFLECTED CEILING PLAN 1/8"=1'-0"

SEE SHEET A14 FOR ALTERNATE LISTING



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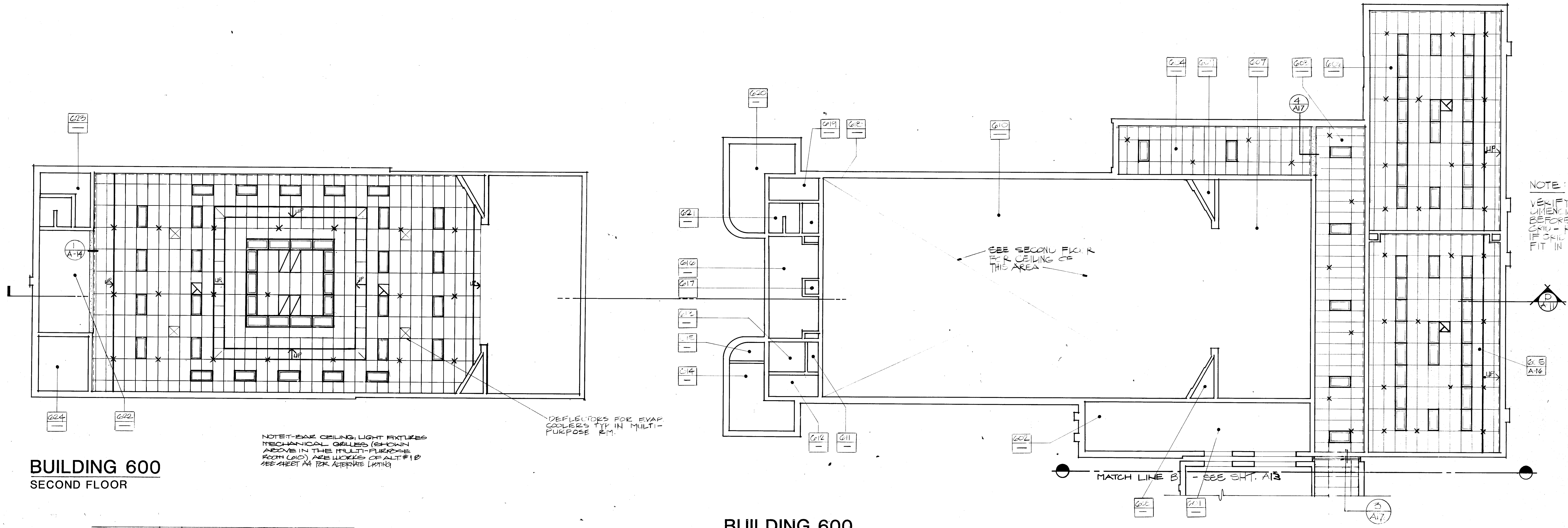
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REFLECTED CEILING PLAN, BLDG. 500 & DETAILS
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87-127
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A13



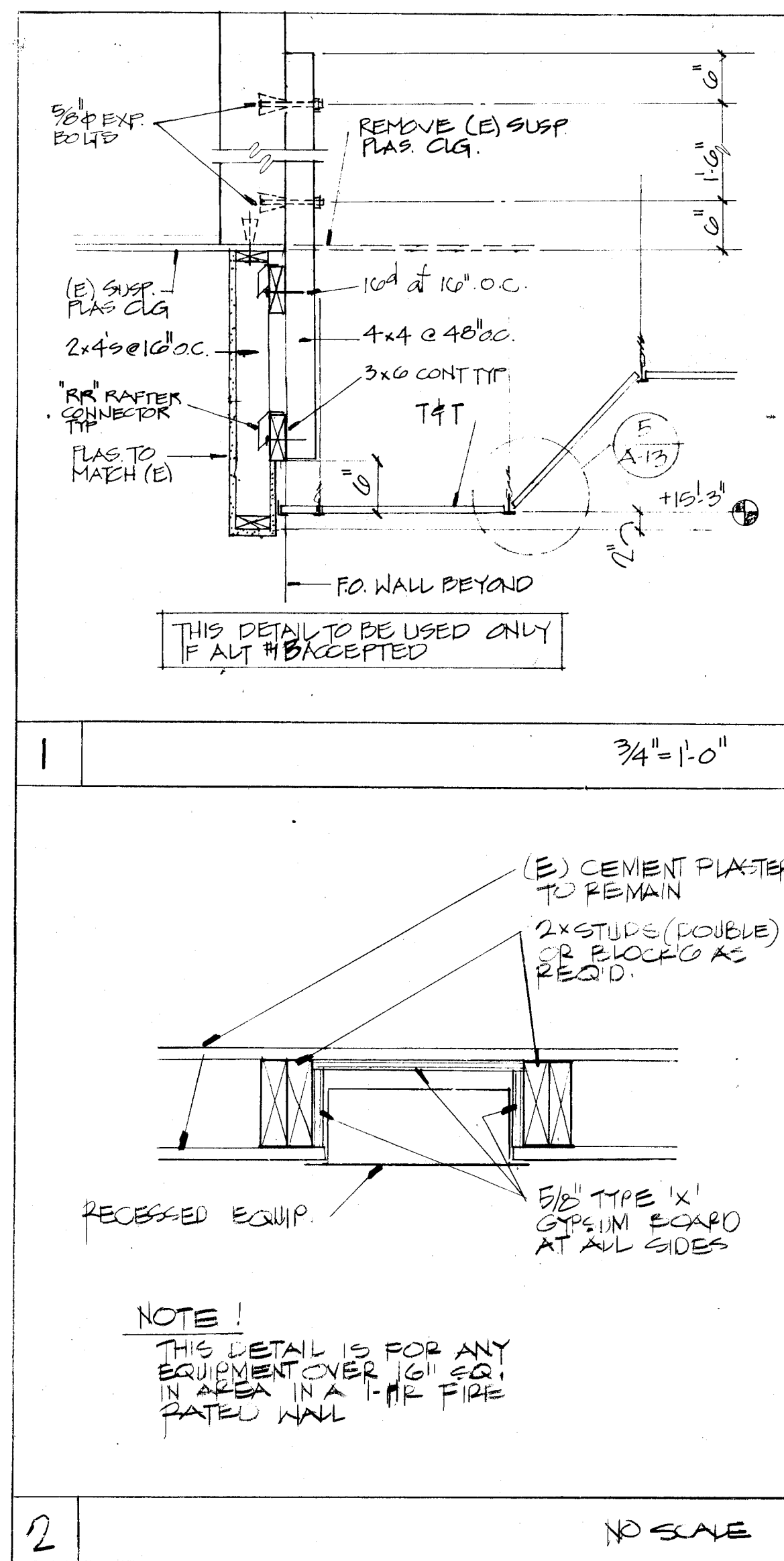
BUILDING 600
SECOND FLOOR

NOTE: THESE CEILING, LIGHT FIXTURES MECHANICAL GRILLES (SHOWN ABOVE IN THE MULTI-PURPOSE ROOM (601)) ARE WORKS OF ART #10 SEE SHEET A4 FOR ALTERNATE LISTING

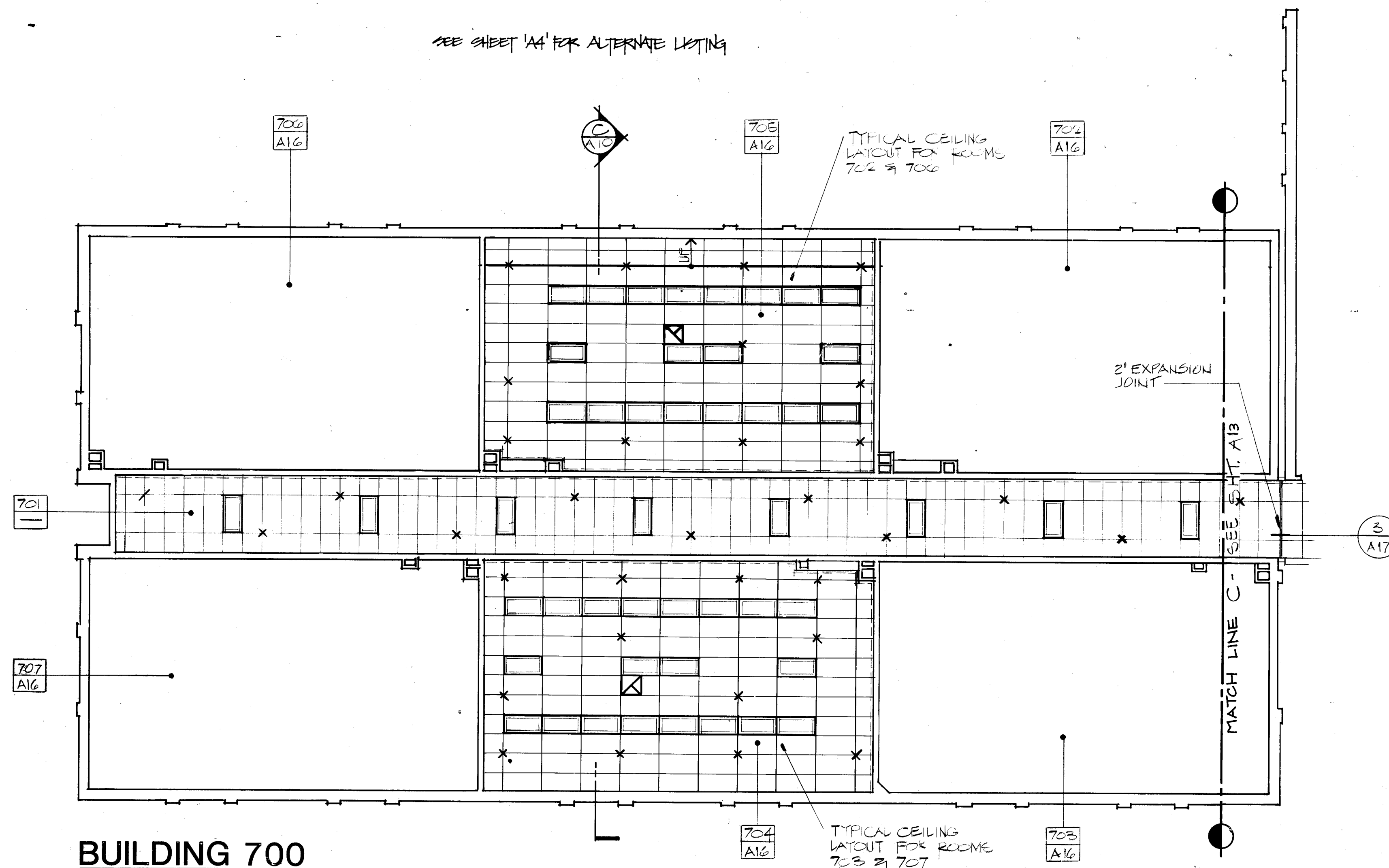
DEFLECTORS FOR EVAP COOLERS TIP IN MULTI-PURPOSE RM.

BUILDING 600

SEE SHEET A4 FOR ALTERNATE LISTING



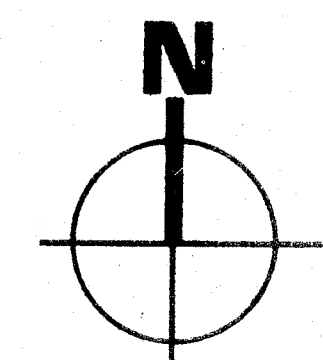
NOTE!
THIS DETAIL IS FOR ANY EQUIPMENT COVER (G) (S) IN AREA IN A 1-1/2\"/>



BUILDING 700
REFLECTED CEILING PLAN

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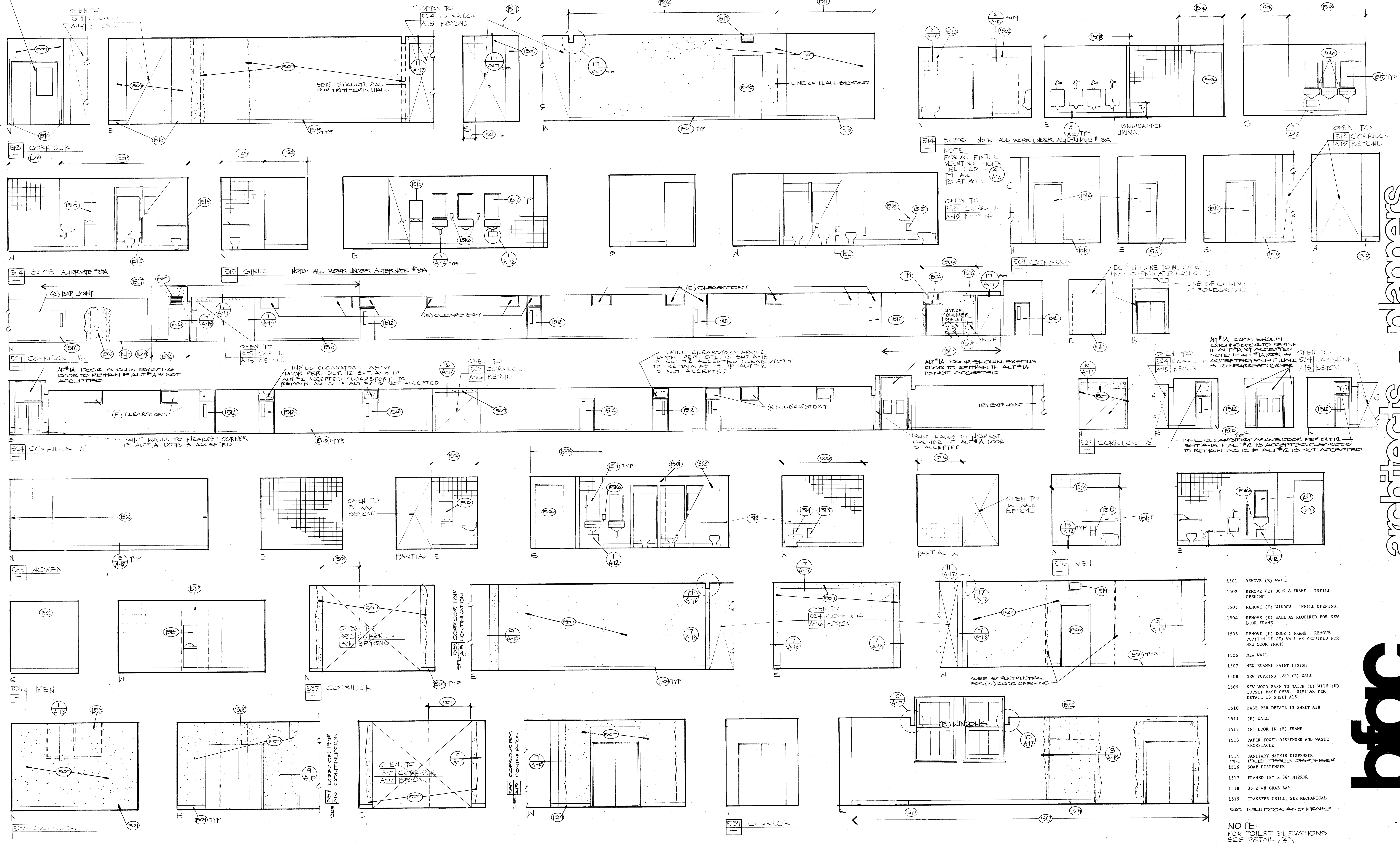
REFLECTED CEILING PLAN, BUDGS. 600 & 700 1/8"=1'-0"

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job 87-127

date 1 FEB 89

ALT #1A DOOR SHOWN EXISTING
DOOR TO REMAIN IF ALT #1A IS
NOT ACCEPTED



- 1501 REMOVE (E) WALL.
 - 1502 REMOVE (E) DOOR & FRAME. INFILL OPENING.
 - 1503 REMOVE (E) WINDOW. INFILL OPENING.
 - 1504 REMOVE (E) WALL AS REQUIRED FOR NEW DOOR FRAME
 - 1505 REMOVE (E) DOOR & FRAME REMOVE PORTION OF (E) WALL AS REQUIRED FOR NEW DOOR FRAME
 - 1506 NEW WALL
 - 1507 NEW ENAMEL PAINT FINISH
 - 1508 NEW FURNISH OVER (E) WALL
 - 1509 NEW WOOD BASE TO MATCH (E) WITH (N) TOPSET BASE OVER. SIMILAR PER DETAIL 13 SHEET A18.
 - 1510 BASE PER DETAIL 13 SHEET A18
 - 1511 (E) WALL
 - 1512 (N) DOOR IN (E) FRAME
 - 1513 PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
 - 1514 SANITARY NAPKIN DISPENSER
 - 1515 TOILET TISSUE DISPENSER
 - 1516 SOAP DISPENSER
 - 1517 FRAMED 18" x 36" MIRROR
 - 1518 36 x 48 GRAB BAR
 - 1519 TRANSFER GRILL, SEE MECHANICAL.
 - 1520 NEW DOOR AND FRAME
- NOTE:
FOR TOILET ELEVATIONS
SEE DETAIL (A-12)

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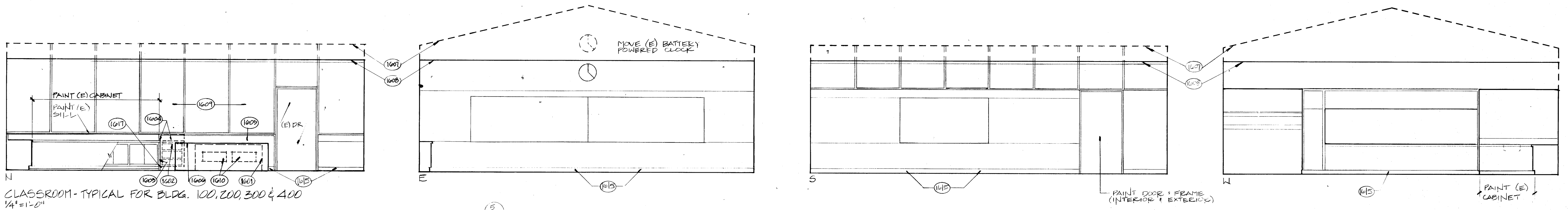
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INTERIOR ELEVATIONS
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DATE 3-7-89

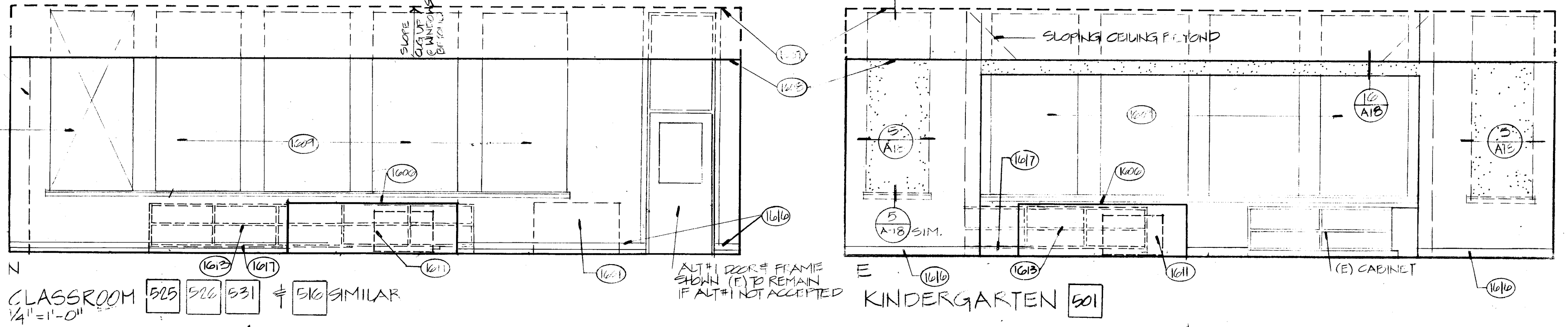
sheet **A15**



CLASSROOM - TYPICAL FOR BLDG. 100, 200, 300 & 400
1/4" = 1'-0"

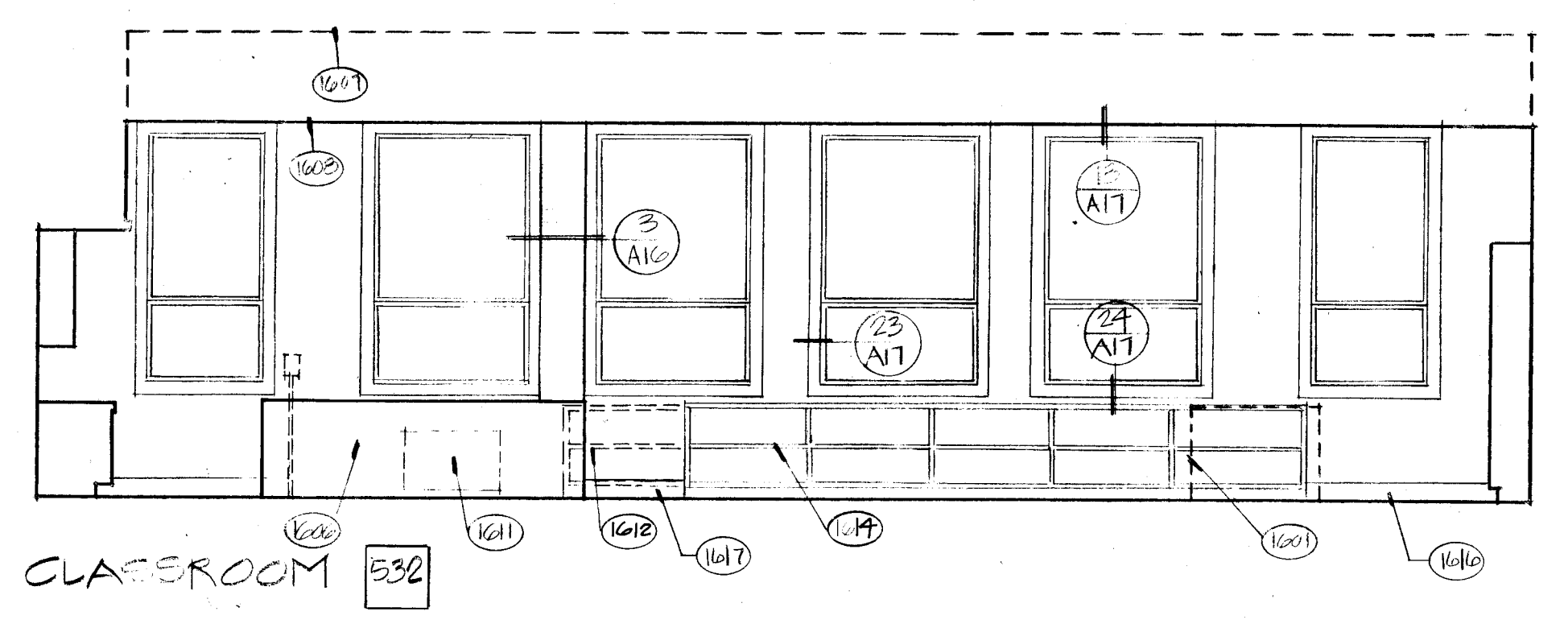
PIPE CHASE PER DTL 6/18 IN CLASSROOM 521

REMOVE (E) WINDOW & INFILL OPENING PER DTL 4/10 IN CLAS. ROOM 521 ONLY. (E) WINDOWS TO REMAIN IN OTHER CLASSROOMS

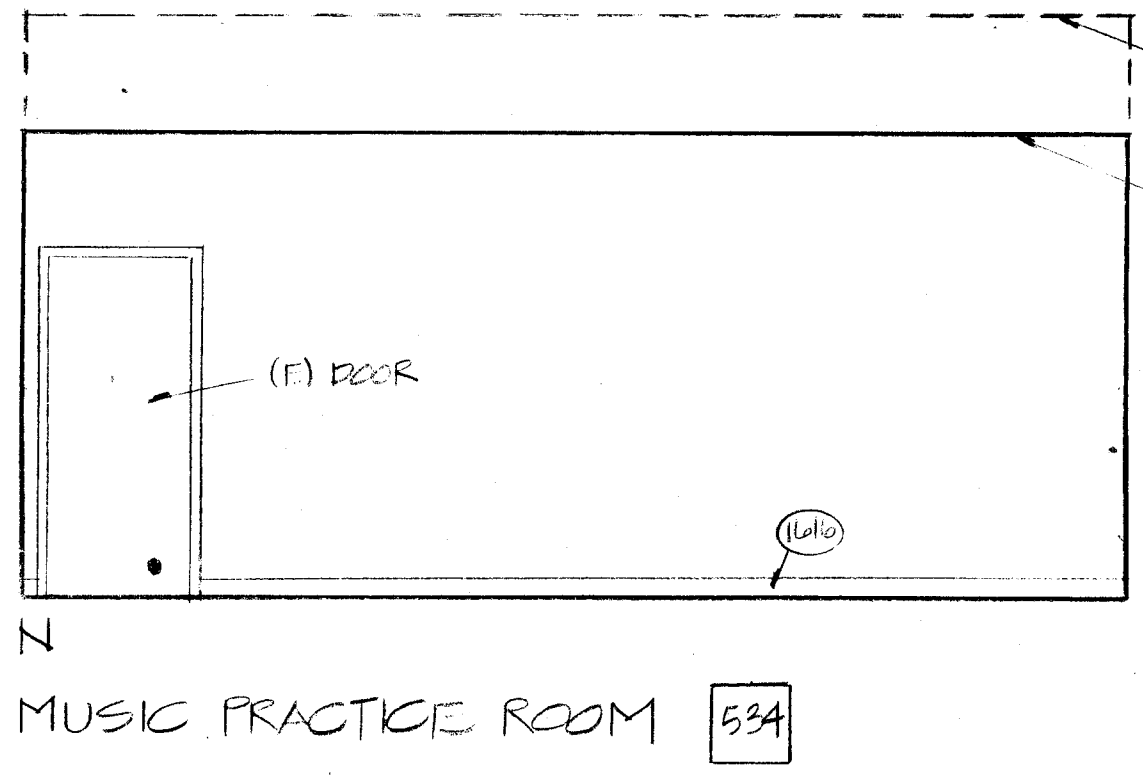


CLASSROOM 525, 526, 531 & 510 SIMILAR
1/4" = 1'-0"

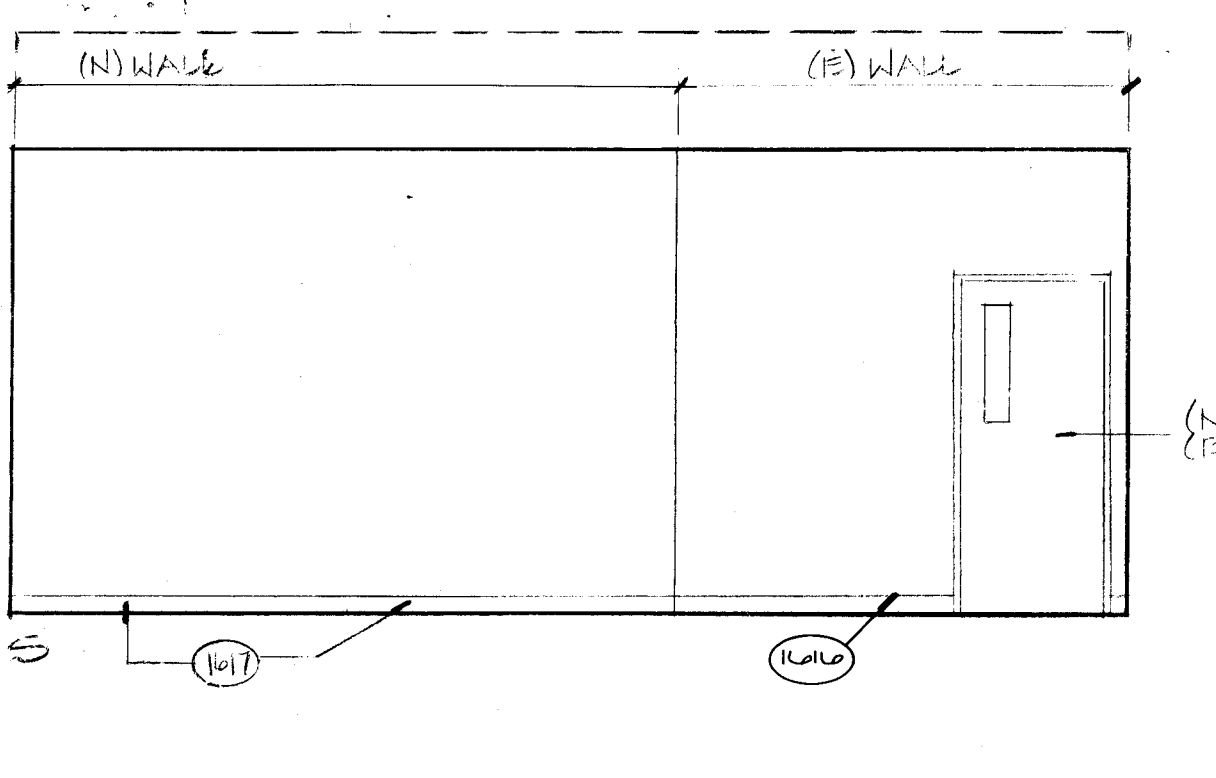
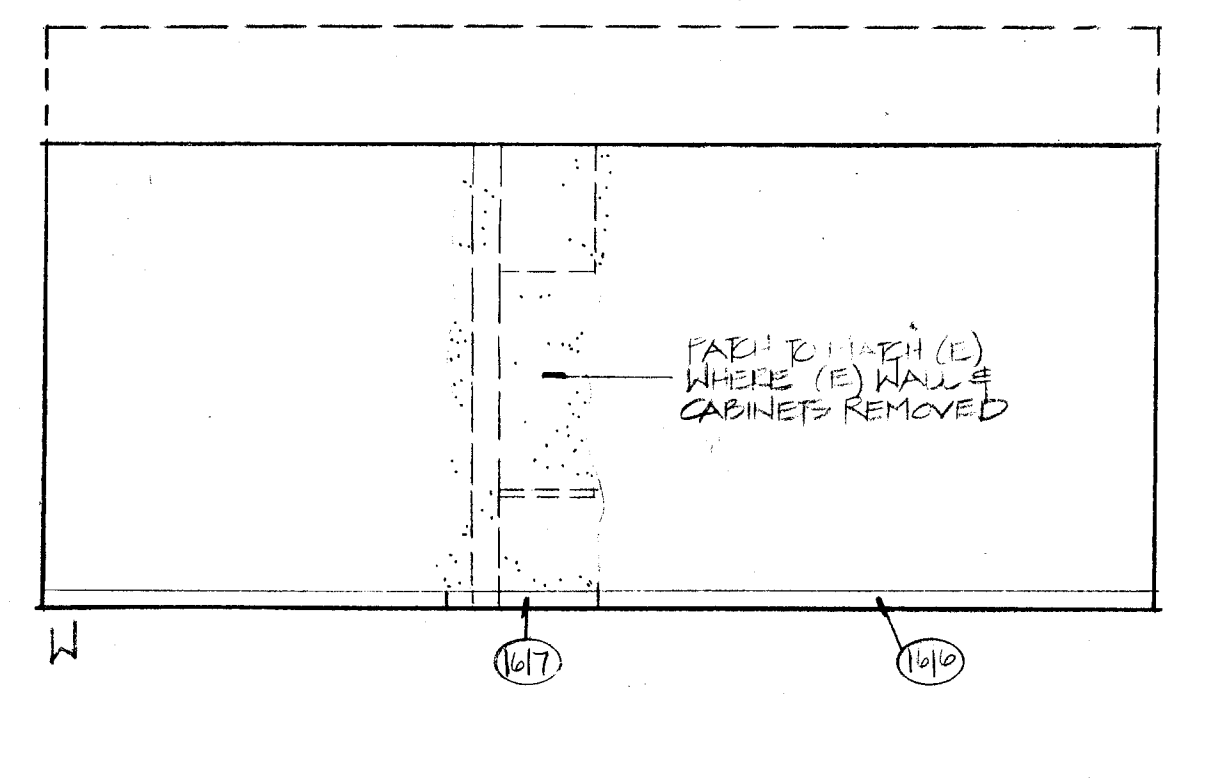
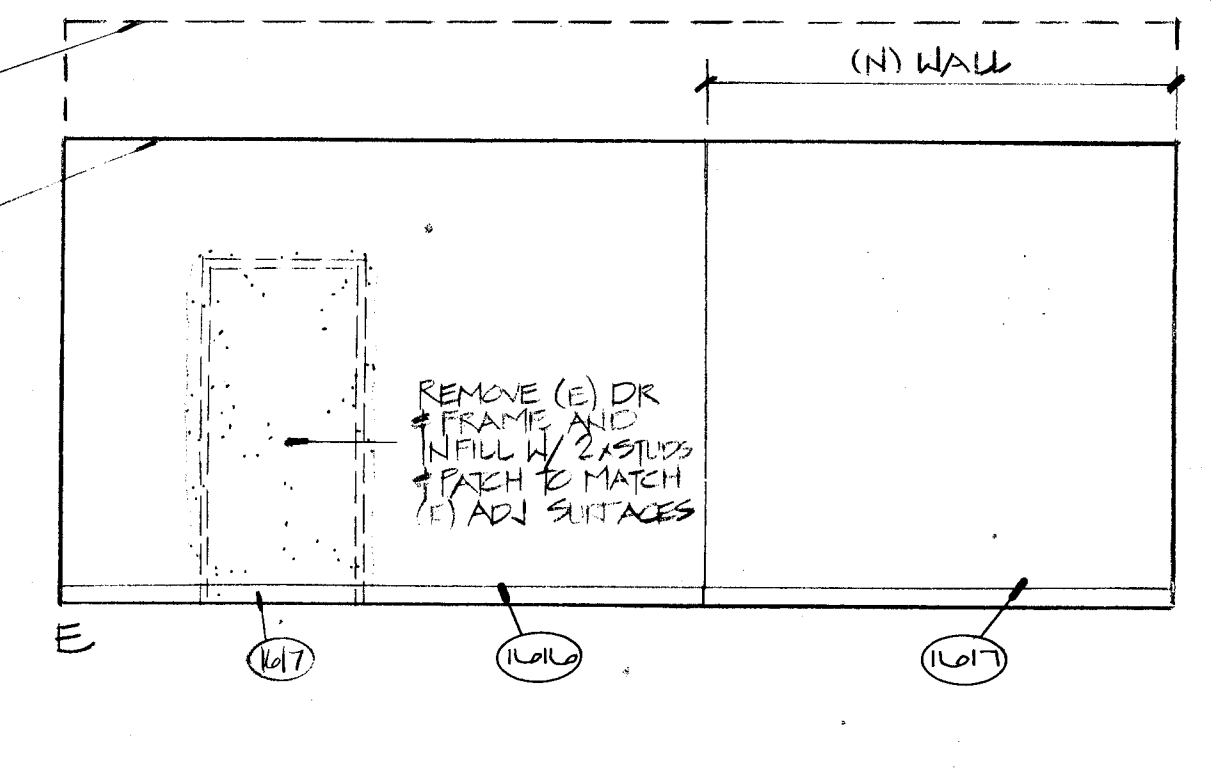
KINDERGARTEN 501



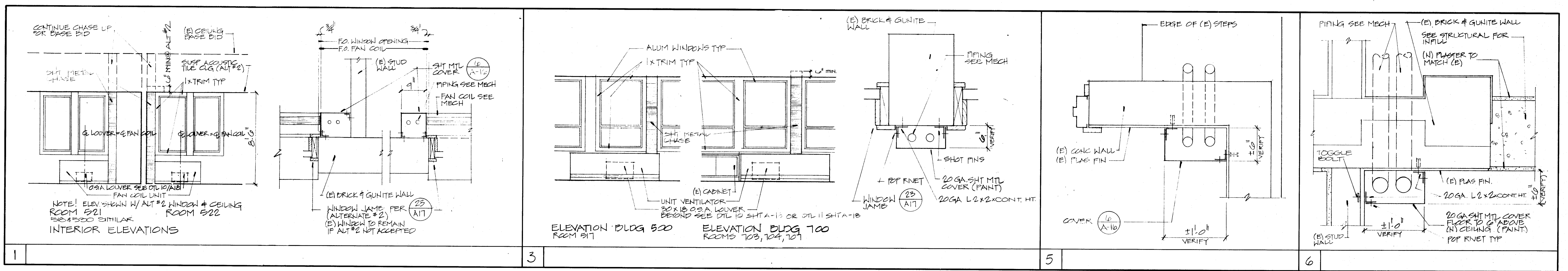
CLASSROOM 532



MUSIC PRACTICE ROOM 534



- KEY NOTES**
- 1601 SEE MECHANICAL DRAWINGS FOR REMOVAL OF (E) UNIT VENTILATOR.
 - 1602 REMOVE PORTION OF (E) CABINET TO NEAREST VERTICAL DIVIDER.
 - 1603 NEW END PANEL.
 - 1604 REMOVE (E) LINOLINUM TOP, BACKSLASH AND MTL. TRIM. REUSE (E) TRIM OR PROVIDE NEW TO CAP OFF WHERE CUT.
 - 1605 REMOVE (E) CORK BOARD FACING AND MTL. TRIM. PROVIDE (N) TO MATCH EXISTING BEHIND (N) UNIT VENTILATOR.
 - 1606 NEW UNIT VENTILATOR - SEE MECHANICAL DRAWINGS.
 - 1607 (E) CEILING HEIGHT
 - 1608 (N) CEILING HEIGHT
 - 1609 (E) WINDOWS
 - 1610 (E) O.S.A. LOUVERS (BEYOND) TO REMAIN.
 - 1611 O.S.A. LOUVER (BEYOND) SEE DETAIL 10, SHEET A18
 - 1612 REMOVE (E) CABINET AND RELOCATE AS SHOWN
 - 1613 REMOVE (E) CABINET
 - 1614 RELOCATED (E) CABINET
 - 1615 BASE PER DTL 13 SHIT A-18
 - 1616 BASE PER DTL 13 SHIT A-18 TYP ALL AROUND ROOM
 - 1617 (N) W/O BASE SIM PER DTL 13 OR 10 SHIT A-18 WHERE CABINET OR OTHER ITEM REMOVED



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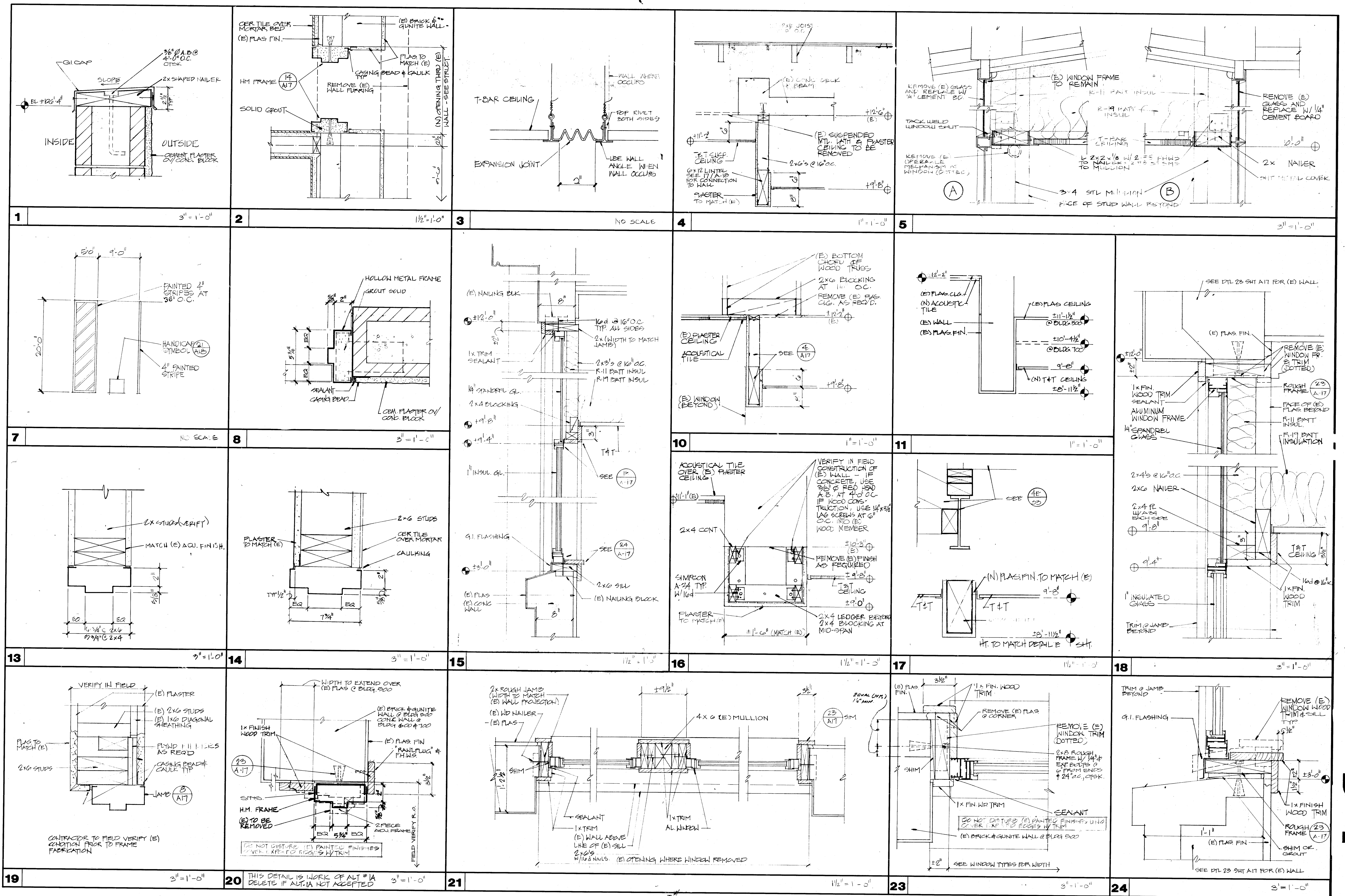
INTERIOR ELEVATIONS, DETAILS
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A16

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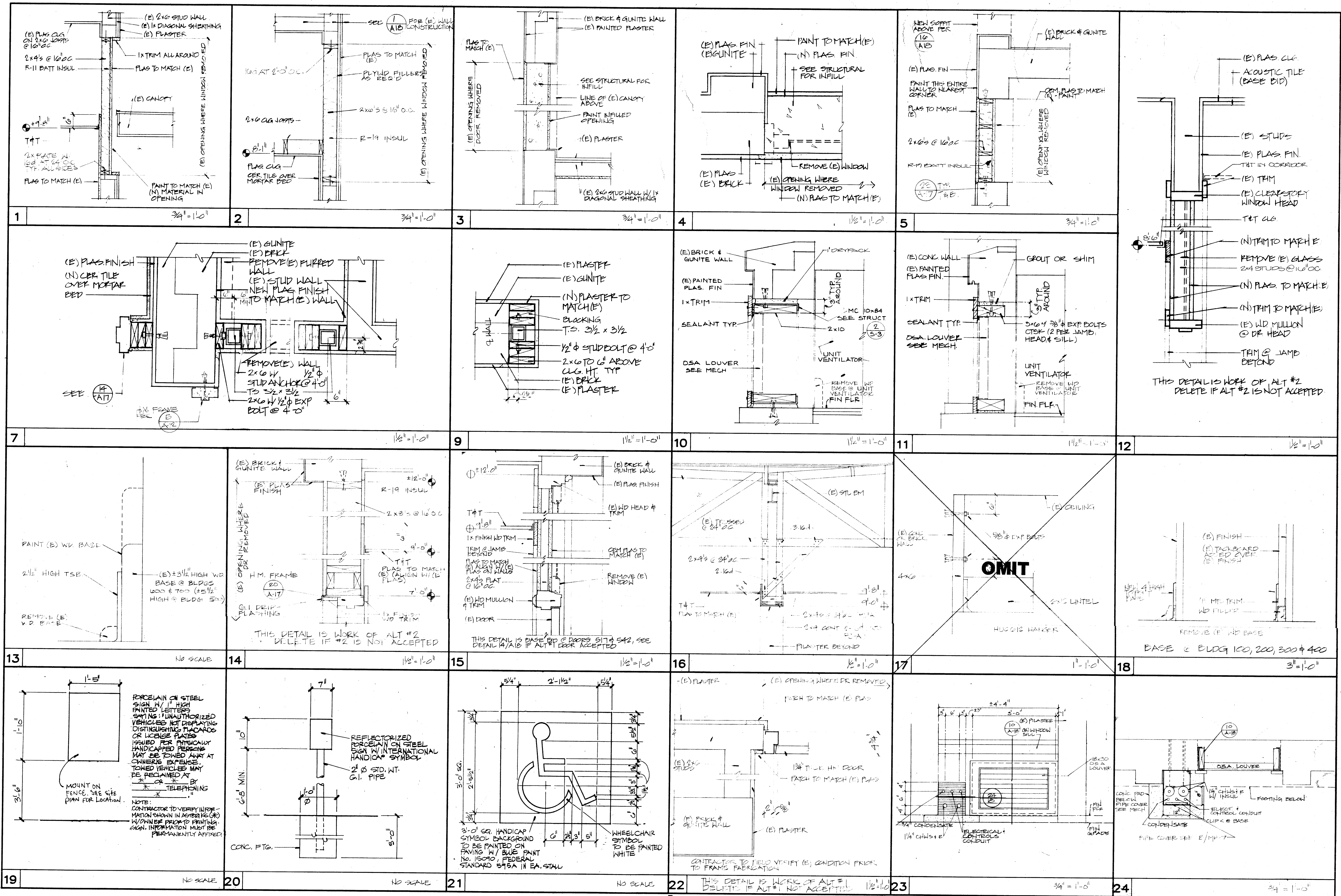
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GENERAL

TYPICAL DETAILS AND GENERAL NOTES SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE DRAWINGS. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK. NO DEVIATIONS FROM THE DRAWINGS SHALL BE PERMITTED WITHOUT THE PERMISSION OF THE ENGINEER.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SLAB DEPRESSIONS, SLOPES, CURBS, DRAINS, OPENINGS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS. ALL MECH. & ELCT. EQUIP. SHALL BE BRACED & ANCHORED ACCORDING TO SEISMIC LOADS PER TITLE 24, SECTION 2-2312 (g), & TABLE 2-232, PART B.

WHERE CONSTRUCTION MATERIALS ARE TEMPORARILY STORED ON THE ROOF FRAMING, THEY SHALL BE DISTRIBUTED SO THAT THE LOAD DOES NOT EXCEED 20 LBS / SF.

THE CONTRACTOR SHALL:

1. VERIFY ALL (E) EXISTING CONDITIONS AND DIMENSIONS AND REPORT ANY DIFFERENCES IN ASSUMED CONDITIONS TO THE ARCHITECT PRIOR TO PROCEEDING.
2. PROVIDE & BE SOLELY RESPONSIBLE FOR ALL TEMPORARY SHORING, GUYS AND BRACING NECESSARY FOR STRUCTURAL WORK SHOWN ON THESE DRAWINGS.
3. PERFORM ALL WORK AND RECEIVE ALL TESTS AND INSPECTIONS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, DRAWINGS AND TITLE 24, PART 2 OF THE CALIFORNIA ADMINISTRATIVE CODE.
4. BE SOLELY RESPONSIBLE FOR CONDITIONS AT THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY.

ALL WORK TO BE PERFORMED UNDER CONTINUOUS INSPECTION OF OSA APPROVED INSPECTOR.

FOUNDATIONS

FOOTINGS AND SLABS SHALL BE PLACED ONLY ON FIRM BEARING AND NOT ON LOOSE SOIL OR UNCOMPACTED FILL.

SOIL TYPE: SANDY LOAM. (VERIFY AT TIME OF CONSTRUCTION BY SOILS ENGINEER EMPLOYED BY OWNER.)

BASIC ALLOWABLE BEARING PRESSURE: 1000 PSF (PER USG TABLE 4-1.3 CLASS 6)

CONTRACTOR SHALL PERFORM ALL WORK AND RECEIVE ALL REQUIRED TESTS AND INSPECTIONS IN ACCORDANCE WITH THE SPECIFICATIONS, TITLE 24 SECTION 2-2903

REINFORCING STEEL

MATERIALS SHALL BE GRADE 40, CONTINUOUS, DEFORMED BARS, CONFORMING TO ASTM A615. BRASS-CONTAMINATED BARS WITH MINIMUM BRASS-CONTAMINATION (24% MIN) CONCRETE COVERAGE FOR REINFORCEMENT CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH SHALL BE 3".

CONTINUOUS BAR SPLICES SHALL BE LAPPED
MASONRY ... 50 BAR DIAMETERS
CONCRETE ... 60 BAR DIAMETERS

CONCRETE

MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
PORTLAND CEMENT (ONE BRAND ONLY; DOMESTIC).....ASTM C150
WATER.....DOMESTIC SUPPLY
AGGREGATES (FINE & COARSE).....7-9, SECTION 2603 & 7-10, SECTION 2604
(AGGREGATES SHALL CONTAIN NOT MORE THAN 2% SHALE OR OTHER DELETERIOUS PARTICLES.)
ADMIXTURES (TYPE A, WATER REDUCING).....7-9, SECTION 2603 & 7-10, SECTION 2604
CURING COMPOUND.....ASTM C109
(SHALL NOT IMPAIR IN ANY WAY THE APPLICATION OF FINISHES, COVERAGES OR PAINT)

CONCRETE MIX AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING:
ALL CONCRETE IS TYPE II, REGULAR WEIGHT (145 LBS)
MINIMUM ULTIMATE COMPRESSIVE STRENGTH @ 28 DAYS.....3000 PSI
MAXIMUM SLUMP (PER ASTM C-143).....4 INCHES
MAXIMUM AGGREGATE SIZE.....1 1/2 INCHES
MINIMUM CEMENT CONTENT.....5 SACKS/CY
MAXIMUM WATER/CEMENT RATIO......67
VAPOR BARRIER.....10 MIL POLY VINYL CHLORIDE
CONTRACTOR SHALL SUBMIT THE CONCRETE DESIGN MIX, APPROVED BY A CALIFORNIA LICENSED CIVIL ENGINEER, TO THE ARCHITECT FOR REVIEW 15 WORKING DAYS PRIOR TO CONCRETE PLACEMENT. MIX DESIGN SHALL BE IN ACCORDANCE WITH METHOD B OR C, 7-8, SECTION 2606(G)

PROOF LOAD TESTS FOR EXPANSION TYPE ANCHOR BOLTS:
ALL CONCRETE ANCHOR BOLTS OF THE EXPANSION TYPE WHERE NOT USED FOR EQUIPMENT ANCHORAGE (LOADED IN EITHER PULLOUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT) PROOF TESTED IN TENSION TO TWICE THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED. ALL BOLTS MUST HAVE I.C.D.O. APPROVAL.

TYPE OF MATERIALS	TYPE OF TEST	BOLT DIAMETER			
		3/8"	1/2"	5/8"	3/4"
HARD ROCK	DIRECT PULL-TENSION, LBS.	1300	2000	2900	4300
CONCRETE	TORQUE WRENCH-TORQUE, FT. LBS.	25	50	110	150

MASONRY

CONCRETE BLOCK SHALL BE GRADE N-1, MEDIUM OR LIGHT WEIGHT (WITH A DRY NET WEIGHT OF NOT MORE THAN 115 LBS. PER CUBIC FOOT), OPEN-END UNITS AND CONFORM TO ASTM C-90 (STANDARD) MINIMUM COMPRESSIVE STRENGTHS.

MINIMUM MORTAR STRENGTH @ 28 DAYS.....1800 PSI MIX PER SECT. 2-2403 (f)
(SHALL CONTAIN NO ADMIXTURES)

MINIMUM GROUT STRENGTH @ 28 DAYS.....2000 PSI MIX PER SECT. 2-2403 (g)
(SHALL CONTAIN SIKKA GROUT AID, TYPE II" AS PER MANUFACTURERS RECOMMENDATIONS. NO OTHER ADMIXTURE SHALL BE ADDED.)

FILL ALL CELLS WITH GROUT. NO SPLICES SHALL BE PERMITTED IN VERTICAL REINFORCING EXCEPT WHERE DETAILED ON THE DRAWINGS. ALL ISOLATED BOLTS EMBEDDED IN MASONRY SHALL BE GROUTED SOLIDLY IN PLACE WITH NOT LESS THAN 1" OF GROUT SURROUNDING THE BOLT. IF WORK IS STOPPED FOR ONE HOUR OR LONGER, PROVIDE HORIZONTAL CONSTRUCTION JOINTS BY STOPPING THE GROUT 1" BELOW THE TOP OF THE BLOCK.

ALL MASONRY WORK SHALL BE CONTINUOUSLY INSPECTED BY AN OSA APPROVED INSPECTOR.

STRUCTURAL STEEL

MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
SHAPES, PLATES, BARS, RODS, ETC.....ASTM A36, Py=36 ksi
PIPES.....GRADE B, ASTM A53, Py=35 ksi
SQUARE AND RECTANGULAR TUBING.....GRADE B, ASTM A500, Py=46 ksi
LIGHT GAGE STEEL.....GRADE C, ASTM A611, Py=33 ksi
(OTHER THAN METAL DECKING AND LIGHTGAGE METAL FRAMING)
WELDING ELECTRODES.....AMS E70XX
MACHINE BOLTS AND ANCHOR BOLTS (U.N.O.).....ASTM A36 OR ASTM A307

WELDING SHALL BE DONE BY THE ELECTRIC SHIELDED ARC OR SUBMERGED ARC PROCESS. WELDERS SHALL BE CERTIFIED AND WORK DONE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODES, AWS D1.1. FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATIONS. ALL STEEL NOT IN CONTACT WITH CONCRETE SHALL RECEIVE ONE COAT OF SHOP PAINT IN ACCORDANCE WITH THE PROVISIONS OF THE CODE OF STANDARD PRACTICE OF AISC AND SPECIFICATIONS.

ALL WELDING SHALL BE INSPECTED BY AN OSA APPROVED INSPECTOR PER TITLE 24, SECTION 2-2727 (e).

WOOD

FRAMING LUMBER SHALL BE GRADE MARKED AS FOLLOWS (U.N.O.):
2X4 & SMALLER (DOUGLAS FIR).....CONSTRUCTION OR BETTER
2X6 & DEEPER (DOUGLAS FIR).....NO. 2
3X & LARGER (DOUGLAS FIR).....NO. 1
SILLS (HDM-FIR OR DOUGLAS FIR).....PRESSURE TREATED LP-2

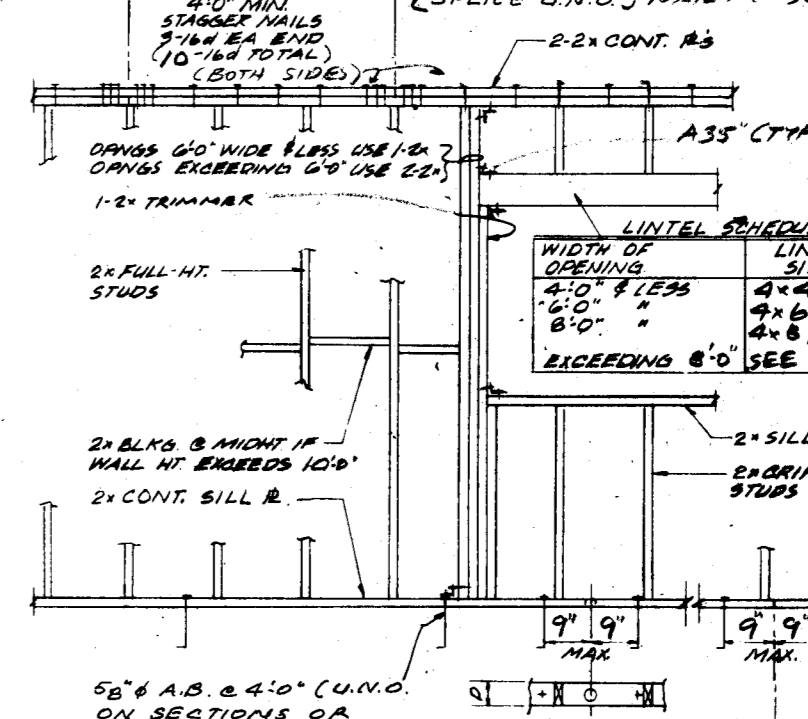
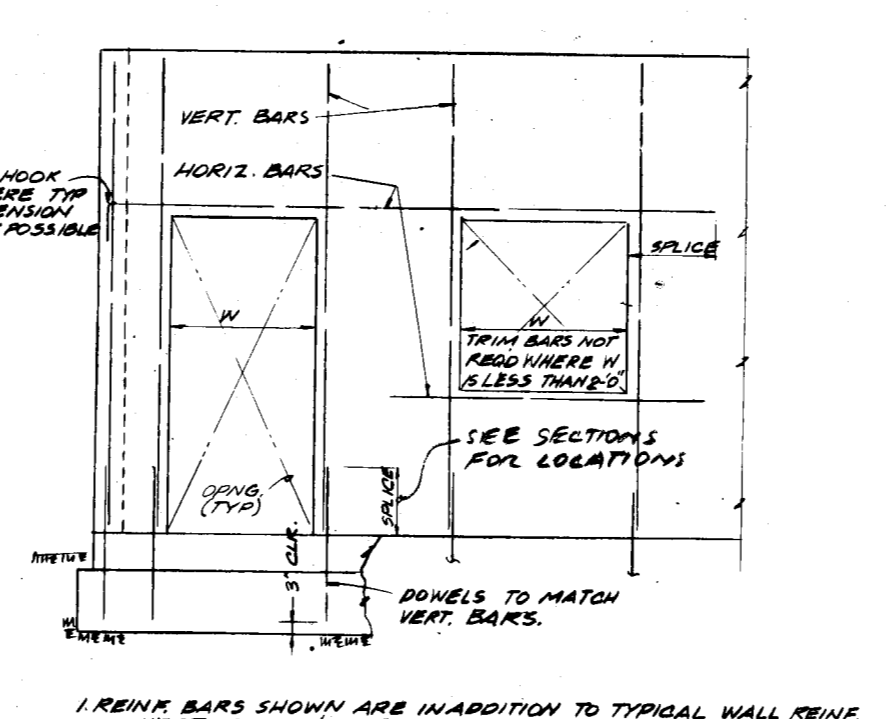
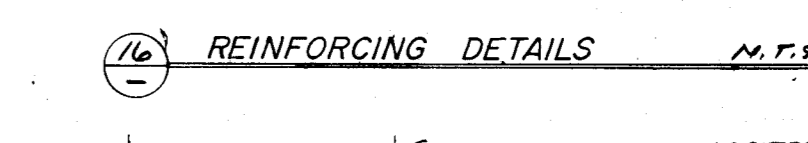
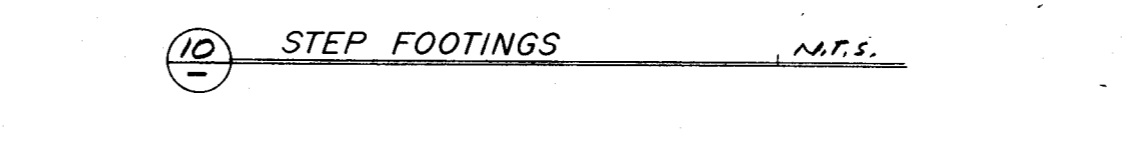
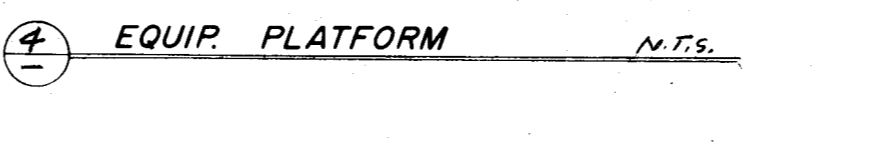
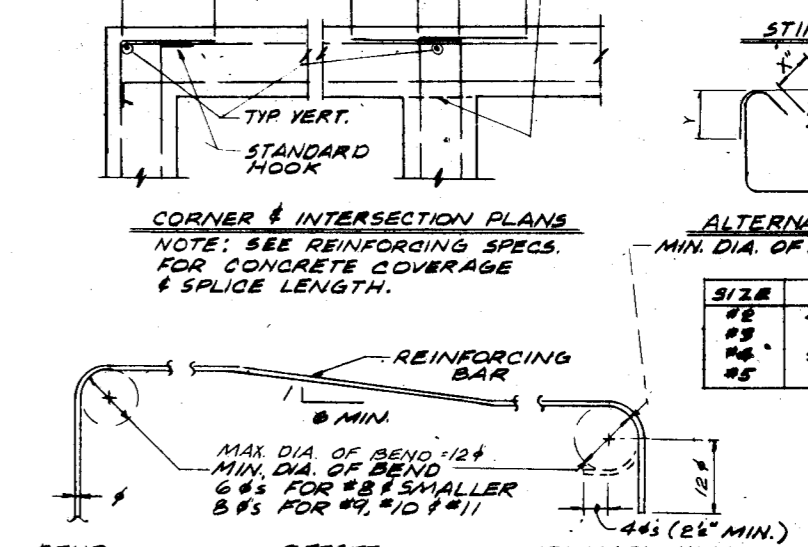
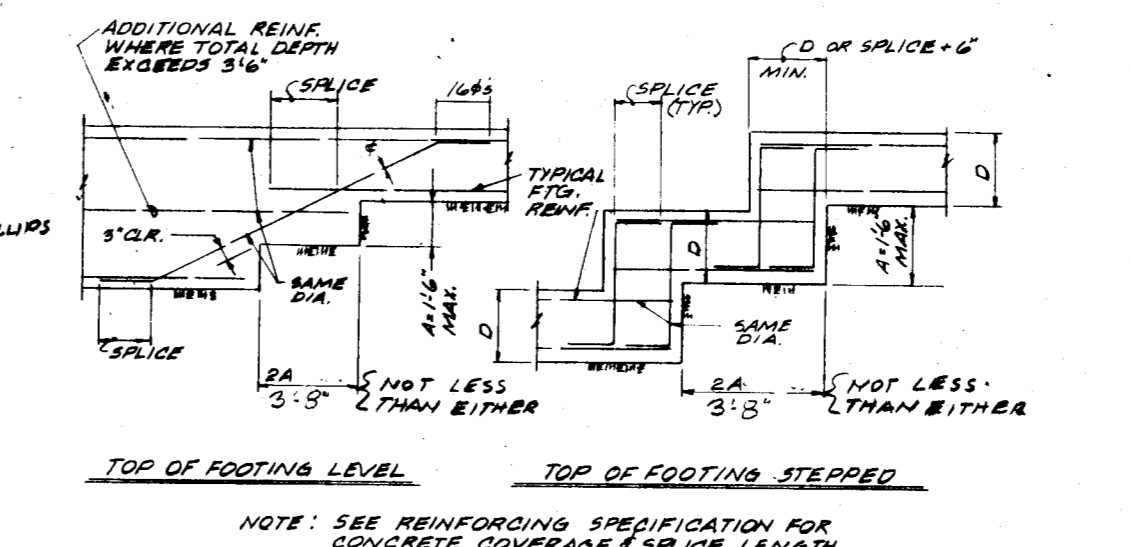
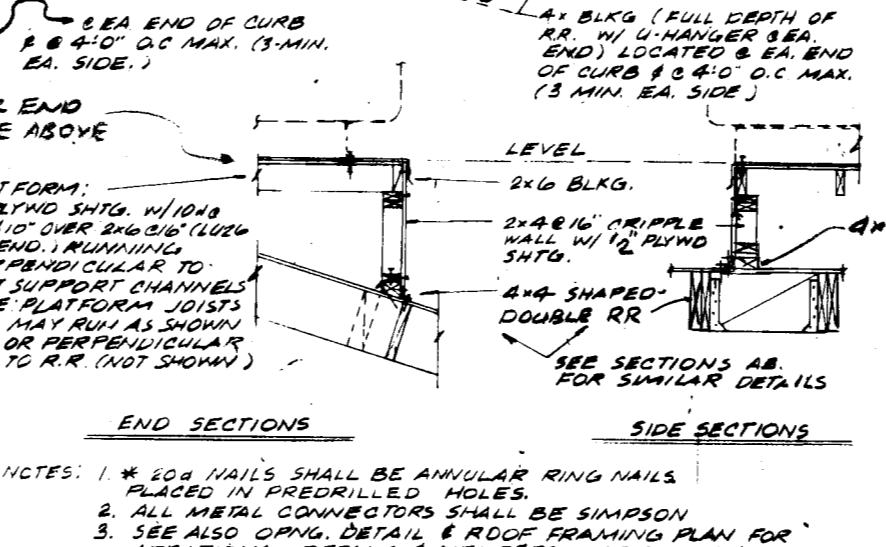
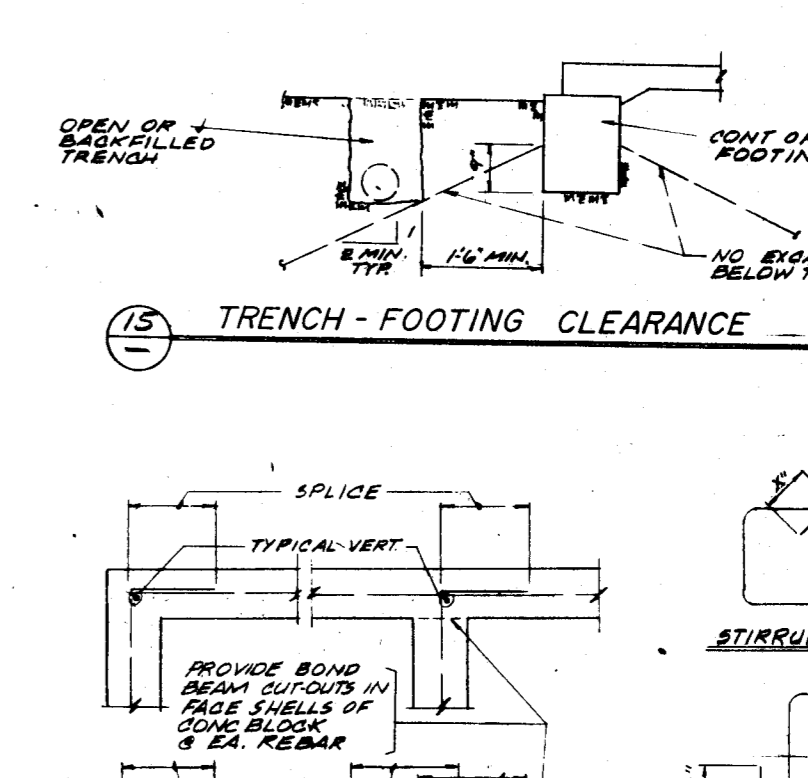
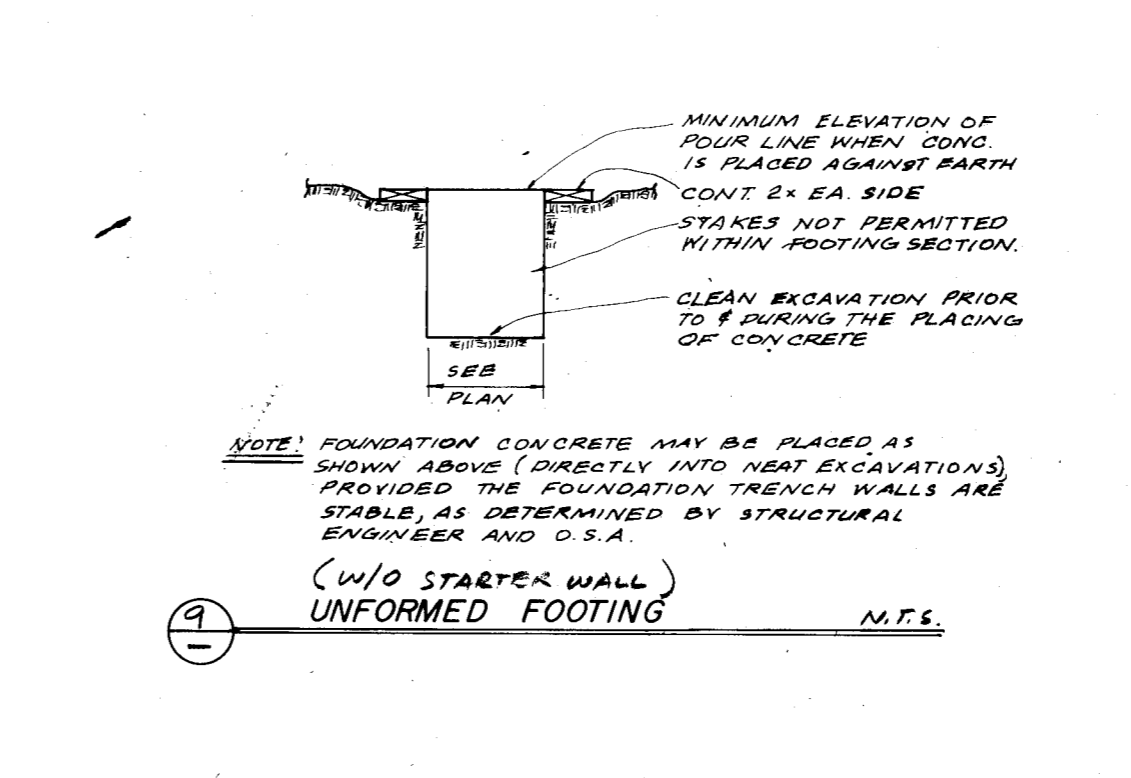
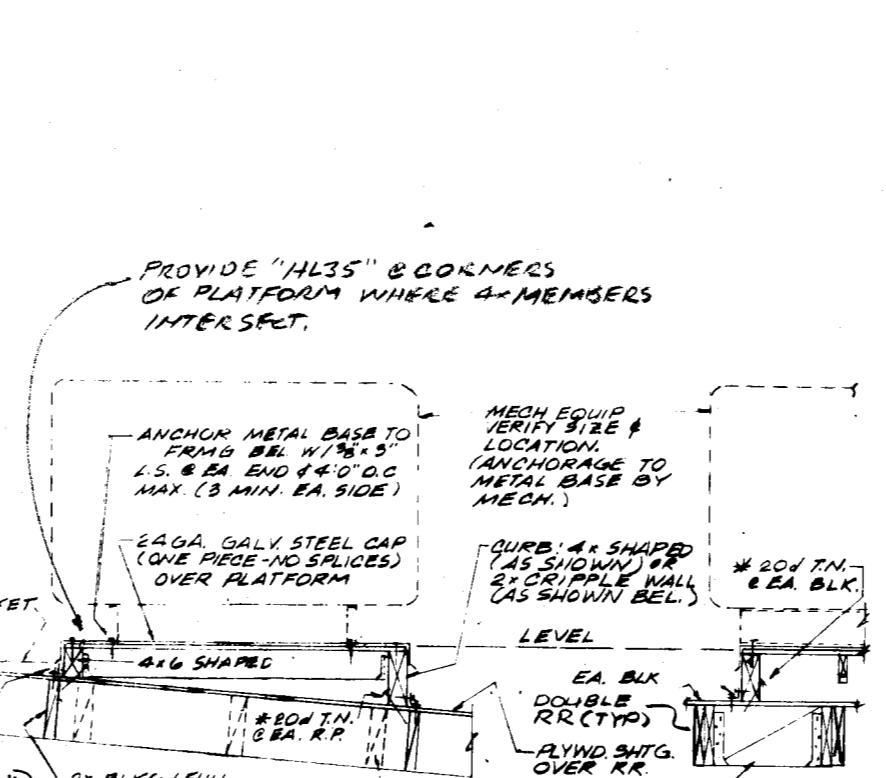
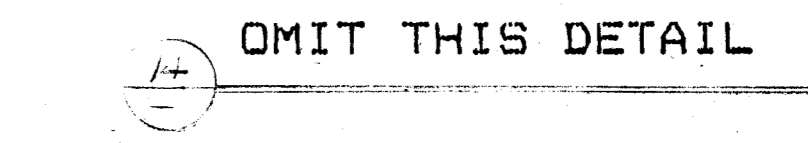
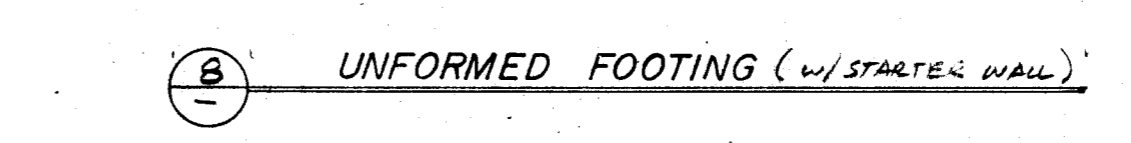
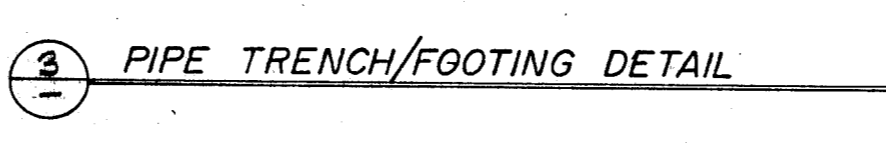
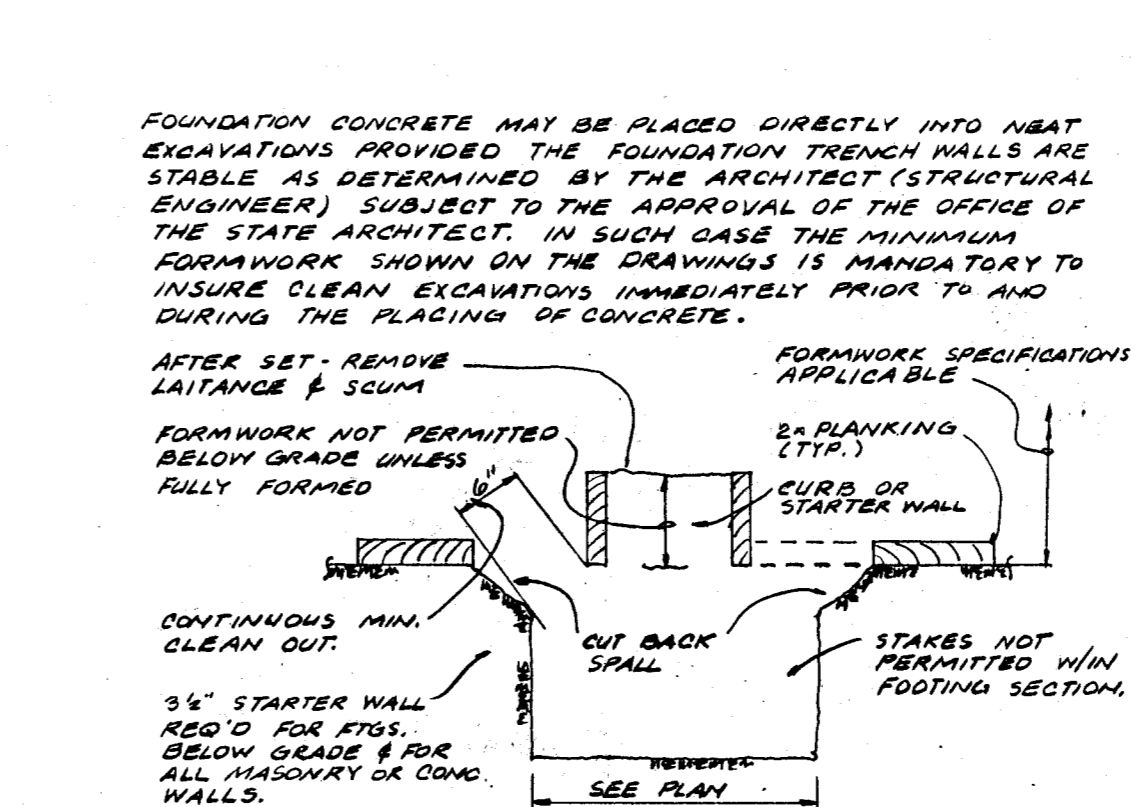
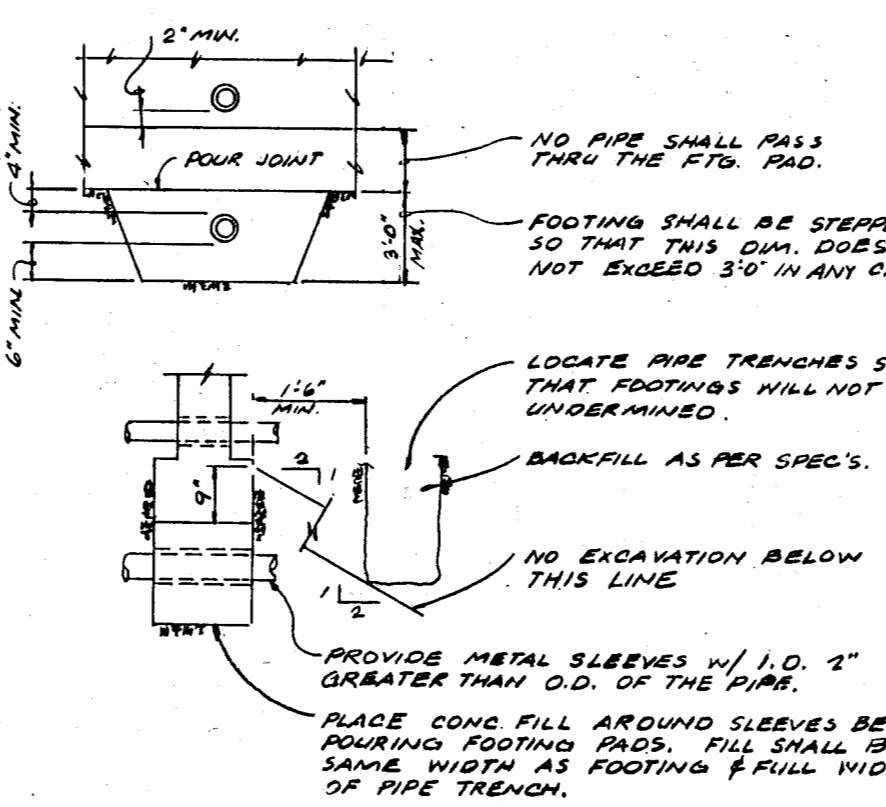
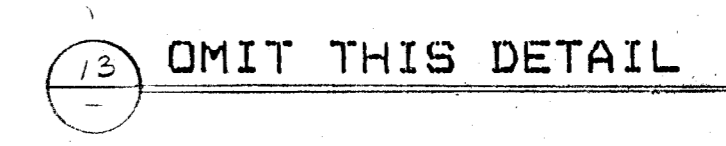
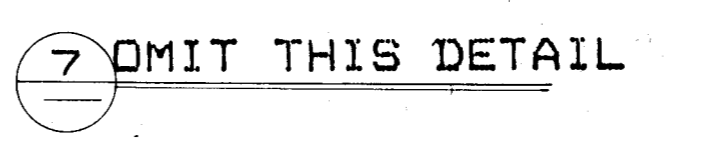
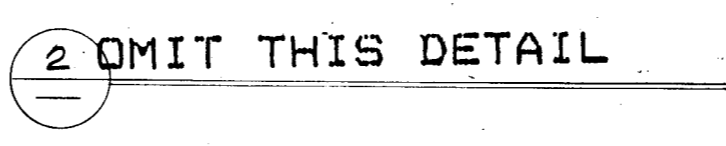
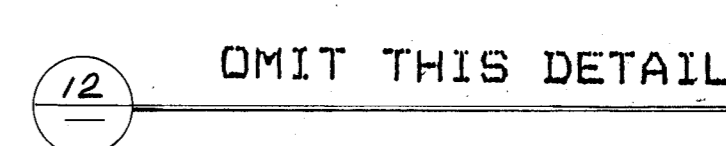
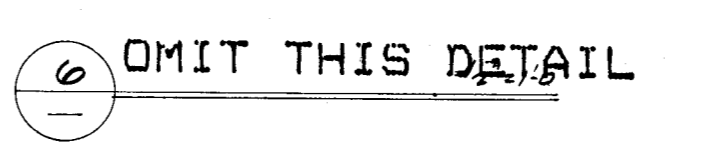
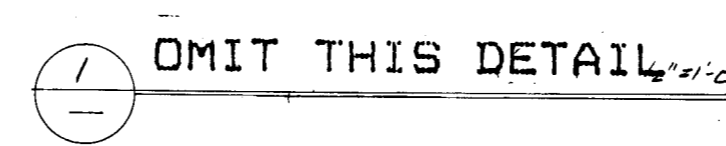
FRAMING: RETIGHTEN BOLTS AS FOR CLOSING IN

NAILING SCHEDULE:

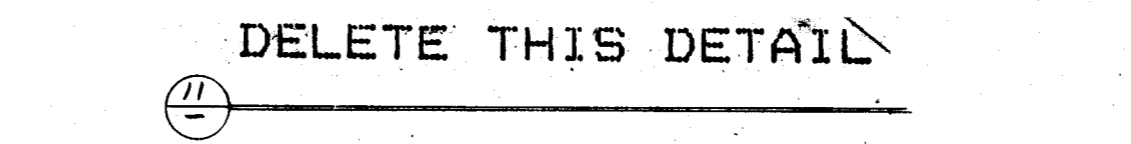
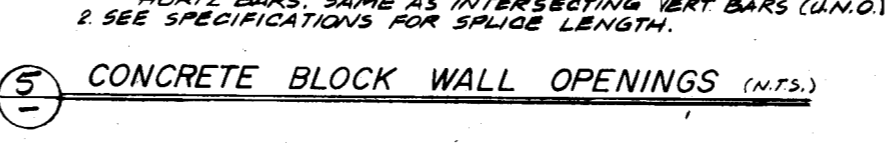
JOISTS OR RAFTERS TO SIDES OF STUDS	3-16d
EIGHT (8) INCH JOISTS OR LESS.....	3-10d
FOR EACH ADDITIONAL FOUR (4) INCHES IN DEPTH OF JOIST.....	1-16d
JOISTS OR RAFTERS AT ALL BEARINGS (T.N., EA. SIDE).....	2-10d
CEILING JOISTS, LAPS OVER PARTITIONS (P.N.).....	3-16d
CEILING JOISTS TO PARALLEL RAFTERS (P.N.).....	3-16d
BLOCKING BETWEEN JOISTS OR RAFTERS TO JOIST OR RAFTERS (T.N., EA. SIDE, EA. END).....	2-10d
TO JOIST OR RAFTER BEARINGS (T.N., EA. SIDE).....	3-10d
BLOCKING BETWEEN STUDS (EA. END).....	2-10d
BRIDGING TO JOIST (T.N., EA. END).....	2-8d
SOLE PLATE TO JOIST OR BLOCKING (P.N.).....	16d @ 16" O.C.
TOP PLATE TO STUD (END NAIL).....	2-16d
STUD TO SOLE PLATE (T.N.).....	4-8d
DOUBLED STUDS (P.N.).....	16d @ 24" O.C.
TOP PLATES, LAPS AND INTERSECTIONS (P.N.).....	2-16d
DOUBLE TOP PLATES (P.N.).....	16d @ 12" O.C. U.N.O.
BUILT-UP CORNER STUDS.....	16d @ 24" O.C.
RIBBONS TO STUDS - ONE (1) INCH RIBBONS.....	2-8d
RIBBONS TO STUDS - TWO (2) INCH RIBBONS.....	2-16d
CONTINUOUS HEADER, TWO PIECES.....	16d @ 24" O.C. ALONG EACH SIDE
CONTINUOUS HEADER TO STUD (T.N.).....	4-8d
1" BRACE TO EACH STUD AND PLATE (P.N.).....	3-8d
BUILT-UP GIRDER AND BEAMS.....	2-20d @ 24" O.C. @ TOP & BOTTOM & STAGGERED PLUS 3-20d @ ENDS & EA. SPLICE PLUS 2-16d & EA. BEARING

NAILING SCHEDULE NOTES:
1. NAILS SHALL BE THE FOLLOWING SIZES:
8d = .131" DIA. X 2-1/2" LONG X .80" HEAD
10d = .148" DIA. X 3" LONG X .92" HEAD
16d = .162" DIA. X 3-1/2" LONG X .98" HEAD
20d = .192" DIA. X 4" LONG WITH A 1/8" PREBORED HOLE X .80" HEAD
2. WHEN POSSIBLE, NAILS DRIVEN PERPENDICULAR TO THE GRAIN SHALL BE USED INSTEAD OF (T.N.).
3. ABBREVIATIONS: (T.N.) = TOE NAIL, (P.N.) = FACE NAIL.
4. PLYWOOD NAILS MUST BE SHORTER IN LENGTH BUT SHALL OBTAIN THE EMBEDMENT SHOWN IN TABLE 25-G OF THE U.S.C.

PLYWOOD SHEATHING AND NAILING NOTES:
1. PLYWOOD SHEATHING SHALL BE AS SHOWN ON THE DRAWINGS AND SCHEDULES.
2. PLYWOOD SHALL BE APPLIED DIRECTLY TO WOOD MEMBERS AND STAGGERED AS SHOWN ON DRAWINGS.
3. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE OFFICE OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.



- MISCELLANEOUS
1. BLOCK 100 THRU 400: REMOVE (E) CEILING TILES WHERE NEW T-SAK CEILING ARE SHOWN ON ARCH. DRAWING
 2. BLOCK 500: REMOVE (E) GYP. LATH & PLASTER CEILING 6" O.D. & SHOW ON ARCH. DRAWING (CENTER 6" O.D. MIN. & SHOW SPAN OF ROOM FOR NEW T-SAK RELIEFING NEW T-SAK CLICH.)



approved

JOHN Q. FORESTELLE
STRUCTURAL ENGINEER
930 WILBE ROAD BAKERSFIELD
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SE 2526 AND 37-72

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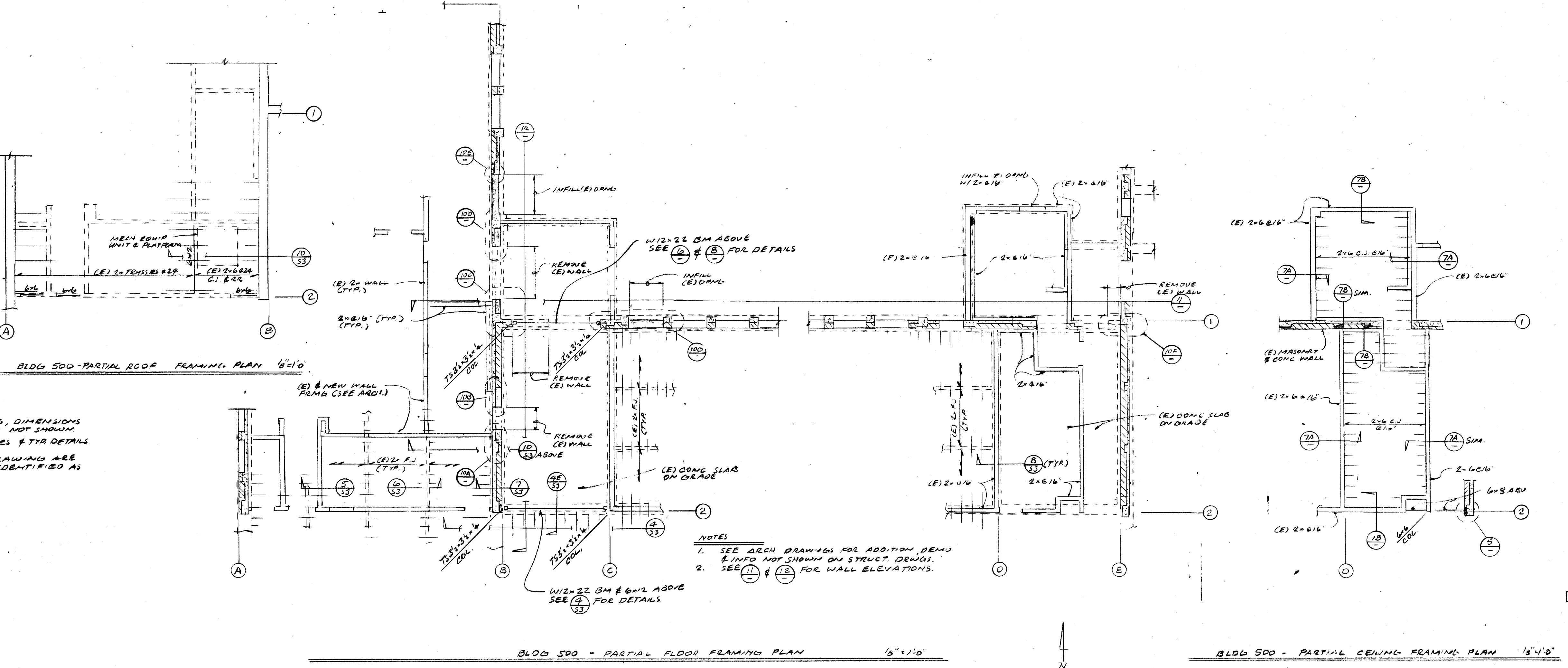
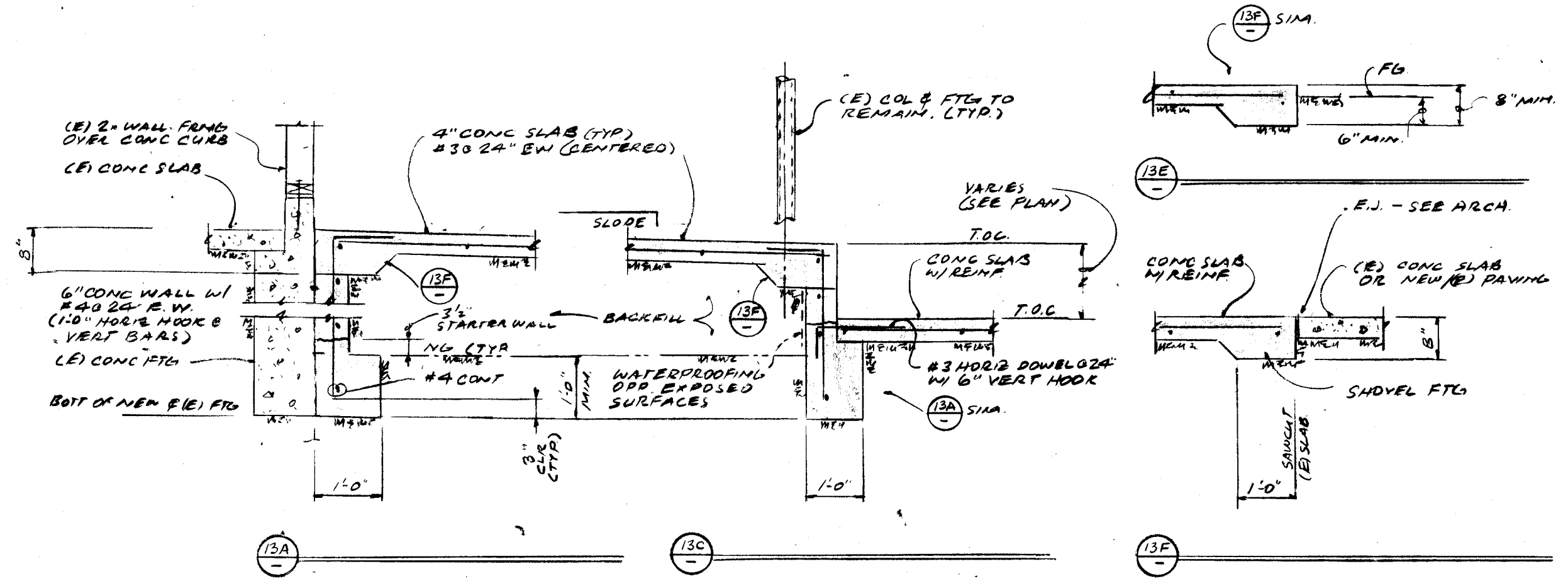
GENERAL NOTES & TYPICAL DETAILS

HORACE MANN MODERNIZATION
BAKERSFIELD CITY SCHOOL DISTRICT
2710 NILES AVENUE
BAKERSFIELD, CALIFORNIA 93307

job 87-127
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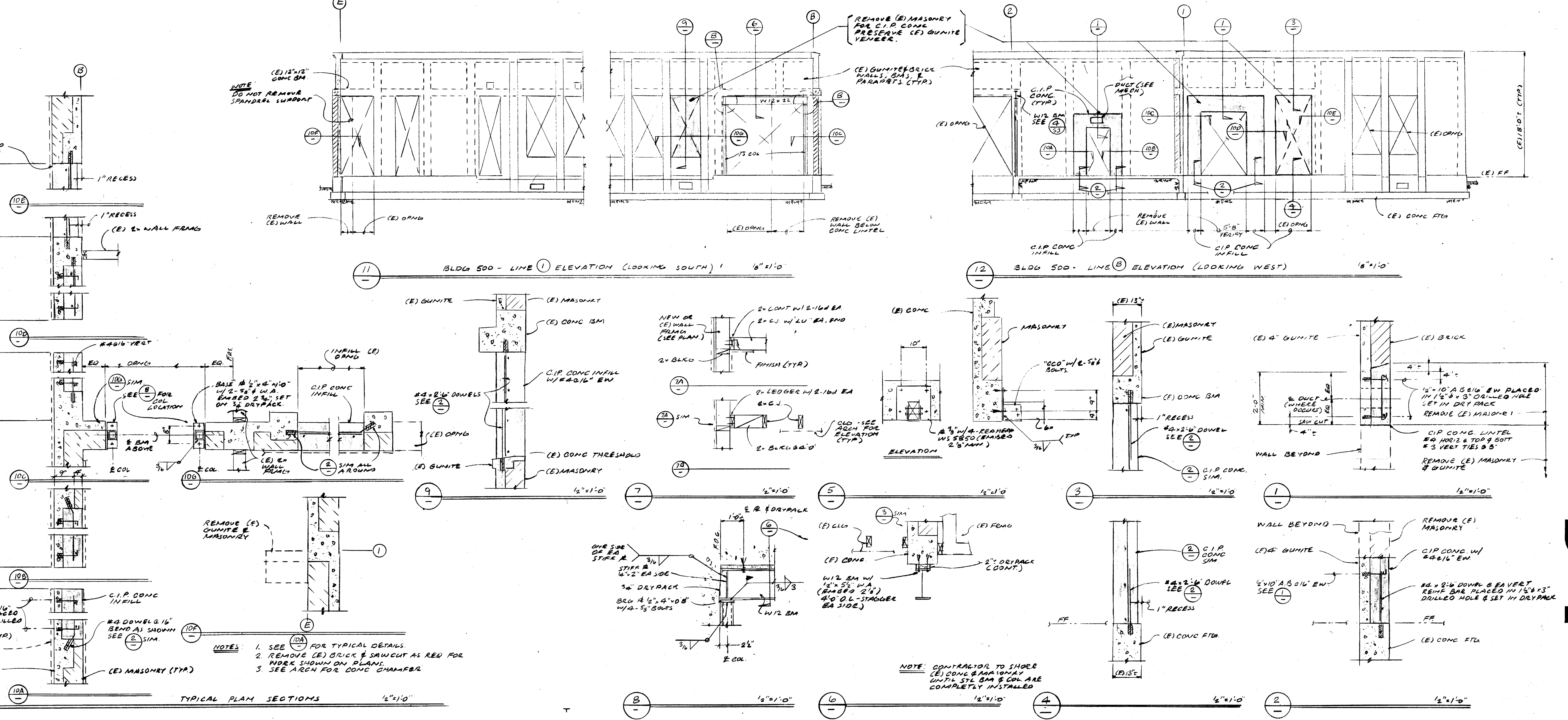
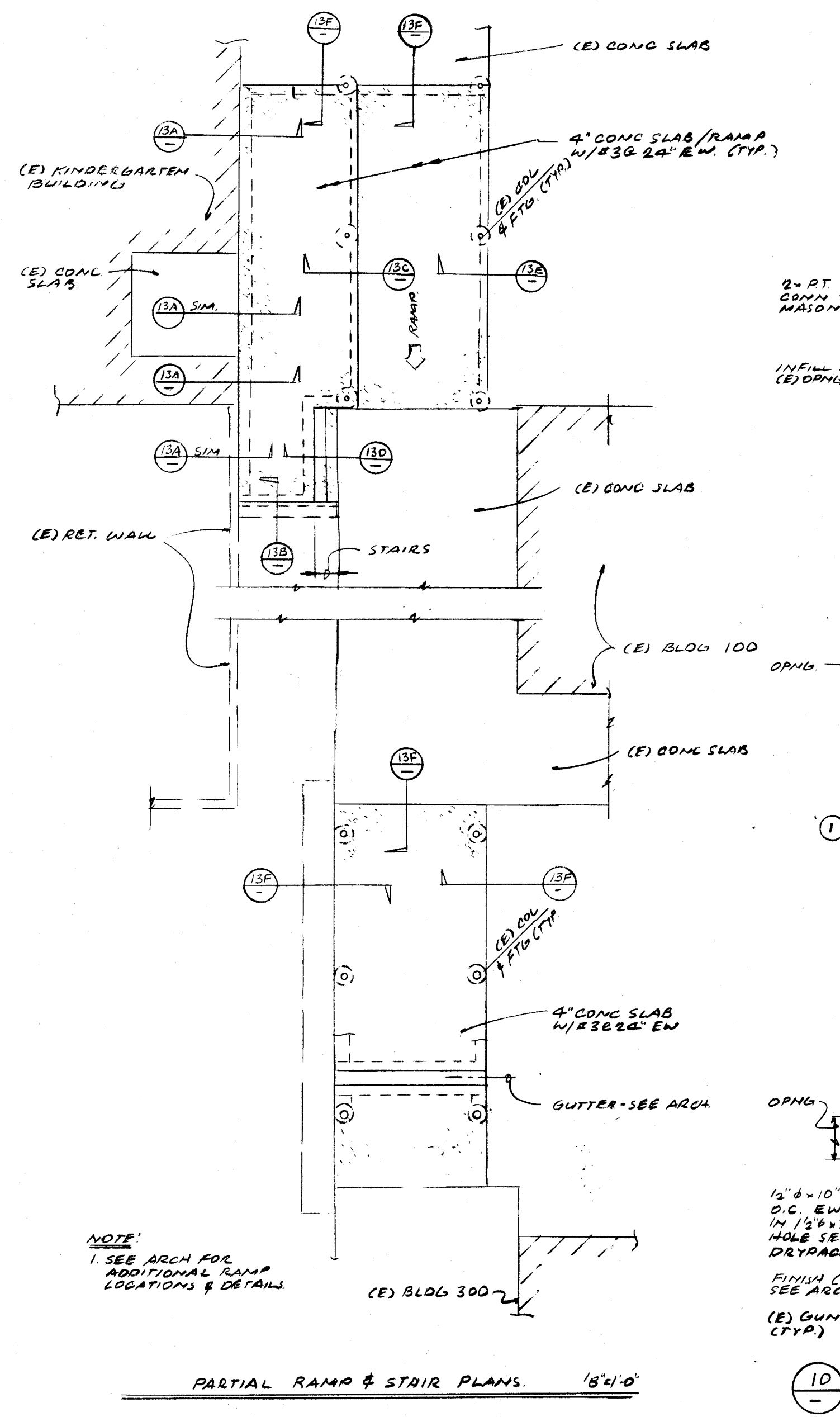
NOTES
 1. SEE ARCH DRAWINGS FOR RAILINGS, DIMENSIONS DEMOLITION, PARTIAL & GENERAL FOOT SHOWN.
 2. SEE INT S-1 FOR GENERAL NOTES & TYP DETAILS.
 3. ALL ITEMS SHOWN ON THIS DRAWING ARE NEW CONSTRUCTION UNLESS IDENTIFIED AS (E) EXISTING.

NOTES
 1. SEE ARCH DRAWINGS FOR ADDITION, DEMO & INFO NOT SHOWN ON STRUCT. DETAILS.
 2. SEE INT S-1 FOR WALL ELEVATIONS.

TYPICAL RAMP/STAIR SECTIONS 1/2"=1'-0"

BLDG 500 - PARTIAL FLOOR FRAMING PLAN 1/8"=1'-0"

BLDG 500 - PARTIAL CEILING FRAMING PLAN 1/8"=1'-0"



NOTES
 1. SEE ARCH FOR TYPICAL DETAILS.
 2. REMOVE (E) BRICK & SAWCUT AS REQ FOR INFO SHOWN ON PLANS.
 3. SEE ARCH FOR CONC CHANNELS.

NOTE CONTRACTOR TO SHOE (E) CONC BEARING W/ W/2" BM & COL ARE COMPLETELY INSTALLED.

approved				JOHN Q. FORESTELLE STRUCTURAL ENGINEER 920 WIBLE ROAD BAKERSFIELD CALIFORNIA 93304 (805) 397-7800 56252B EOR 5319Z	C. 3132 C. 3269 C. 8564 C. 8021 C. 8702 © copyrighted 1989	bfgc inc. architects planners 31 south real road box 9698 BAKERSFIELD CALIFORNIA 93309 805 832 8122	PLANS, SECTIONS & DETAILS HORACE MANN MODERNIZATION BAKERSFIELD CITY SCHOOL DISTRICT 2710 NILES AVENUE BAKERSFIELD, CALIFORNIA 93307	job 87-127 date FEB 89	sheet 52 #8804 JOE
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PLUMBING LEGEND		
SYMBOL	ITEM	ABBR
---	SOIL OR WASTE	S or W
---	VENT	V
---	VENT RISER	VR
---	VENT THROUGH ROOF	VTR
---	DOMESTIC COLD WATER	CW
---	DOMESTIC HOT WATER	HW
---	DOMESTIC HOT WATER RETURN	HWR
G	NATURAL GAS	G
C	CONDENSATE DRAIN	CD
---	EXISTING PIPING	
---	FLOOR CLEANOUT	FCO
---	CLEANOUT TO GRADE	COTG
---	WALL CLEANOUT	WCO
---	PIPING TURN UP	
---	PIPING TURN DOWN	
---	POINT OF CONNECTION	POC
(N)	NEW	
(E)	EXISTING	
---	ABOVE CEILING	ADV. CLG.
---	BELOW FLOOR	BEL. FLR.
---	BELOW GRADE	BEL. GR.
---	TYPICAL	TYP.
---	CONTINUATION	CONT.
---	SHUT-OFF VALVE IN BOX	SOV
---	GATE VALVE	
---	CHECK VALVE	
---	PLUG VALVE	

AIR CONDITIONING LEGEND		
SYMBOL	ITEM	ABBR
---	ROUND DUCT	---
---	SHEET METAL DUCT	---
---	DUCT WITH ACOUSTIC LINING	---
---	SUPPLY AIR DUCT DROP	---
---	RETURN AIR DUCT DROP	---
---	EXHAUST AIR DUCT DROP	---
---	SUPPLY AIR DUCT RISE	---
---	RETURN AIR DUCT RISE	---
---	EXHAUST AIR DUCT RISE	---
---	TURNING VANES	TV
---	EXTRACTOR	---
---	VOLUME CONTROL DAMPER WITH LOCKING QUADRANT	VCD
---	FIRE DAMPER WITH ACCESS PANEL	FD
---	CUBIC FEET OF AIR PER MINUTE	CFM
---	THERMOSTAT AT +5'-0"	T'STAT
---	DIRECTION OF FLOW	---
---	SUPPLY AIR	SA
---	RETURN AIR	RA
---	EXHAUST AIR	EA
---	OUTSIDE AIR	OSA
---	PIPE OR DUCT TURN DOWN	---
---	PIPE OR DUCT TURN UP	---
---	BY PASS TIMER	BPT
---	POINT OF CONNECTION	POC
---	EXISTING (DESIGNATED)	(E)

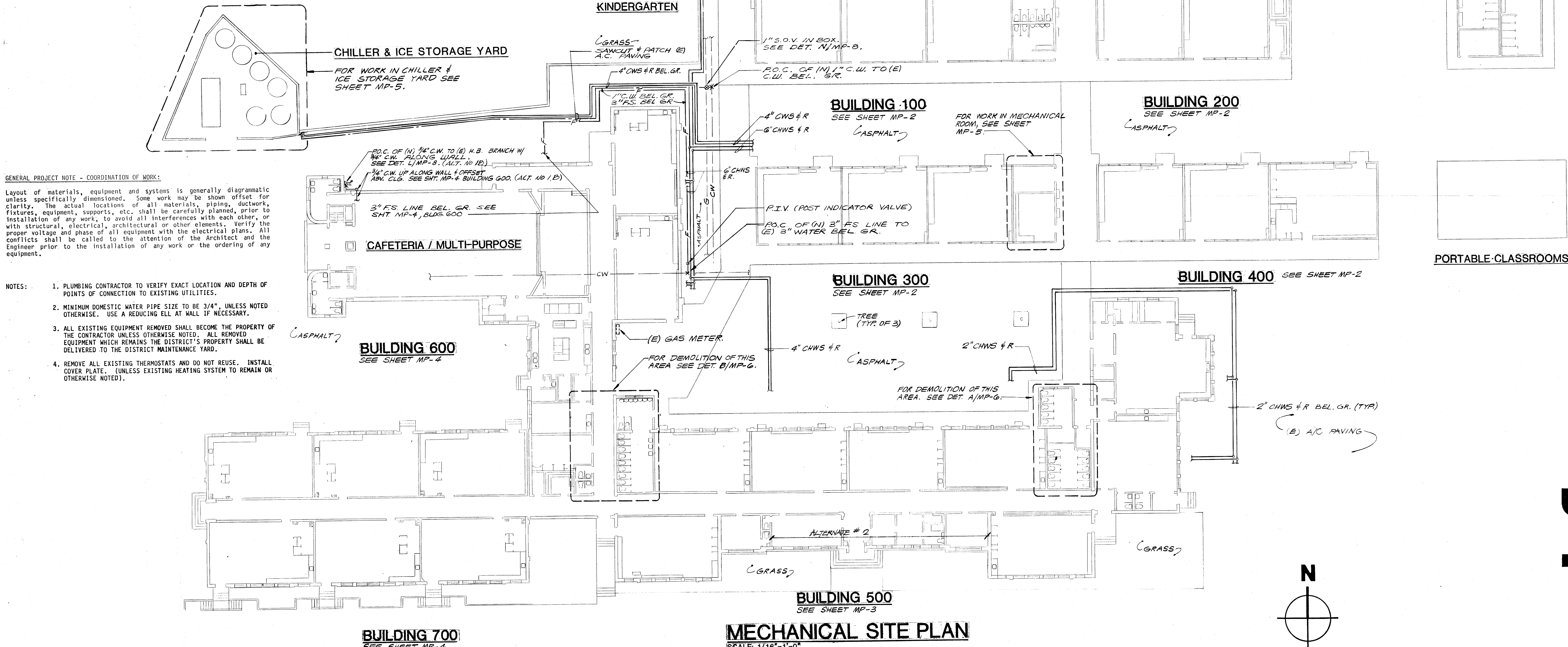
AIR CONDITIONING LEGEND		
SYMBOL	ITEM	ABBR
---	HWS	HOT WATER SUPPLY
---	HWR	HOT WATER RETURN
---	CWS	CHILLED WATER SUPPLY
---	CWR	CHILLED WATER RETURN
---	CHWS	CHILLED/HOT WATER SUPPLY
---	CHWR	CHILLED/HOT WATER RETURN
---	BS	BRINE SUPPLY
---	BR	BRINE RETURN
---	S	STEAM SUPPLY
---	SCR	STEAM CONDENSATE RETURN
---	RD	REFRIGERANT DISCHARGE
---	RL	REFRIGERANT LIQUID
---	RS	REFRIGERANT SUCTION
---	---	BALL VALVE
---	---	BUTTERFLY VALVE
---	---	CHECK VALVE
---	---	GATE VALVE
---	---	PLUG VALVE
---	---	PRESSURE RELIEF VALVE
---	---	UNION
---	---	INSTRUMENT WELL
---	---	FLOW SWITCH
---	---	STRAINER
---	---	REDUCER OR INCREASER

**EQUIPMENT ANCHORAGE
FOR BUILDING 600**

All mechanical and electrical equipment shall be braced or anchored to resist a horizontal force acting in any direction using the following criteria:
 Fixed Equipment on Grade 27.5% of Operating Weight
 Fixed Equipment on Structure 41.25% of Operating Weight
 Emergency Power Equipment on Grade 41.25% of Operating Weight
 Emergency Power Equipment on Structure 67.5% of Operating Weight
 For Flexibly Mounted Equipment Use 2 X the above values.
 Simultaneous Vertical Force - Use 1/3 X Horizontal Force.
 Where anchorage details are not shown on the drawings the field installation shall be subject to the approval of the MECHANICAL engineer and the field representative of the Office of the State Architect.

**EQUIPMENT ANCHORAGE
FOR BUILDINGS 100, 200, 300, 400, 500, 700**

All mechanical and electrical equipment shall be braced or anchored to resist a horizontal force acting in any direction using the following criteria:
 Fixed Equipment on Grade 22% of Operating Weight
 Fixed Equipment on Structure 33% of Operating Weight
 Emergency Power Equipment on Grade 33% of Operating Weight
 Emergency Power Equipment on Structure 50% of Operating Weight
 For Flexibly Mounted Equipment Use 2 X the above values.
 Simultaneous Vertical Force - Use 1/3 X Horizontal Force.
 Where anchorage details are not shown on the drawings the field installation shall be subject to the approval of the MECHANICAL engineer and the field representative of the Office of the State Architect.



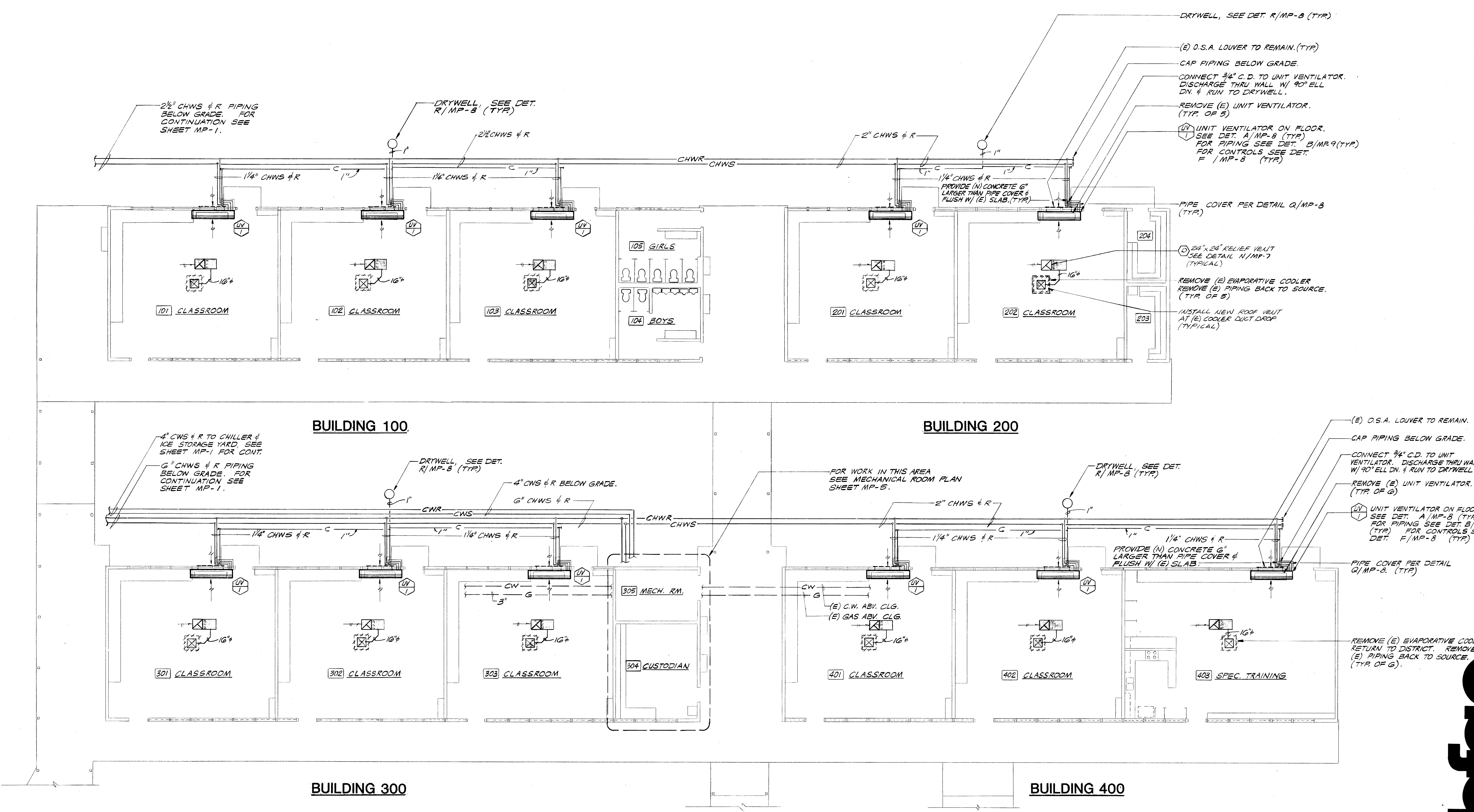
GENERAL PROJECT NOTE - COORDINATION OF WORK:
 Layout of materials, equipment and systems is generally diagrammatic unless specifically dimensioned. Some work may be shown offset for clarity. The actual locations of all materials, piping, ductwork, fixtures, equipment, supports, etc. shall be carefully planned, prior to installation of any work, to avoid all interferences with each other, or with structural, electrical, architectural or other elements. Verify the proper voltage and phase of all equipment with the electrical plans. All conflicts shall be called to the attention of the Architect and the Engineer prior to the installation of any work or the ordering of any equipment.

- NOTES:**
1. PLUMBING CONTRACTOR TO VERIFY EXACT LOCATION AND DEPTH OF POINTS OF CONNECTION TO EXISTING UTILITIES.
 2. MINIMUM DOMESTIC WATER PIPE SIZE TO BE 3/4", UNLESS NOTED OTHERWISE. USE A REDUCING ELL AT WALL IF NECESSARY.
 3. ALL EXISTING EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED. ALL REMOVED EQUIPMENT WHICH REMAINS THE DISTRICT'S PROPERTY SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE YARD.
 4. REMOVE ALL EXISTING THERMOSTATS AND DO NOT REUSE. INSTALL COVER PLATE. (UNLESS EXISTING HEATING SYSTEM TO REMAIN OR OTHERWISE NOTED).

MECHANICAL SITE PLAN
SCALE: 1/16"=1'-0"

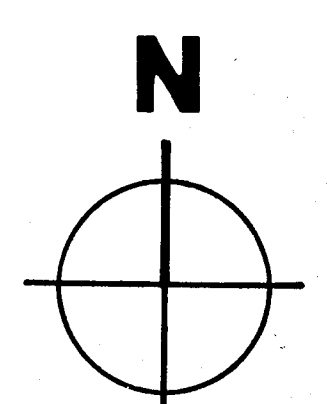
<p>approved</p>	<p>approved</p>	<p>approved</p>	<p>approved</p>	<p>approved</p>	<p>approved</p>	<p>approved</p>	<p>approved</p>	<p>approved</p>	<p>approved</p>	<p>approved</p>	<p>approved</p>
<p>Donald R. Lawrence & Associates CONSULTING MECHANICAL ENGINEERS, INCORPORATED 3300 W. Shaw Avenue, Suite 20 Fresno, CA 93711 (509) 256-9101 ME11004 FAX 509-256-4327</p>			<p>bfgc inc. architects planners 31 south real road box 9686 bakerville california 93309 805 832 6122</p>			<p>MECHANICAL SITE PLAN SCALE: 1/16"=1'-0"</p> <p>HORACE MANN MODERNIZATION BAKERSFIELD CITY SCHOOL DISTRICT 2710 NILES AVENUE BAKERSFIELD, CALIFORNIA 93307</p>			<p>job 87-127</p>	<p>date FEB 89</p>	<p>sheet MP-1</p>

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BUILDING 100, 200, 300, & 400 AIR CONDITIONING PLAN

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



approved

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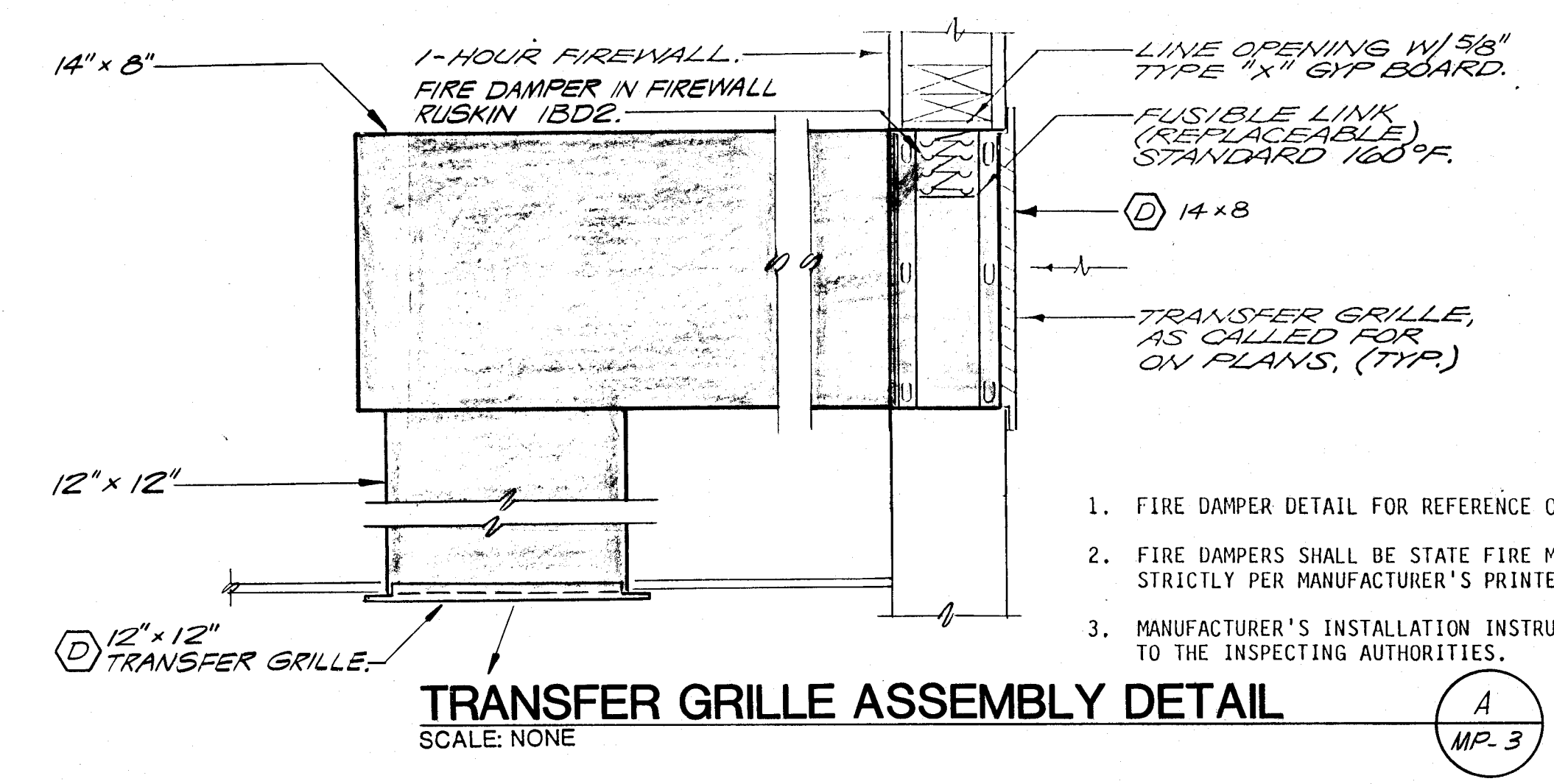
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BUILDING 100, 200, 300, & 400 AIR CONDITIONING PLAN SCALE: 1/8" = 1'-0"
HORACE MANN MODERNIZATION
 BAKERSFIELD CITY SCHOOL DISTRICT
 2710 NILES AVENUE
 BAKERSFIELD, CALIFORNIA 93307

job 87-127
 date 1 FEB 89

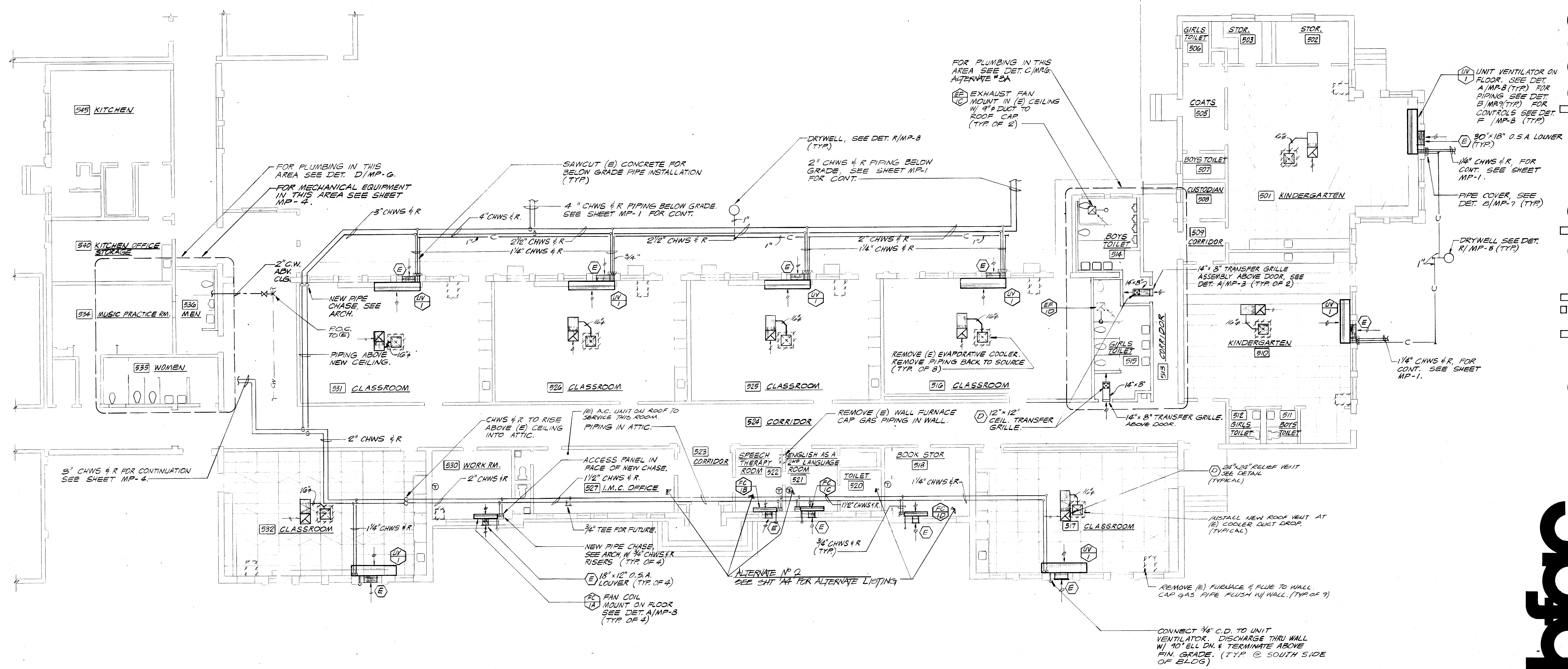
sheet **MP-2**



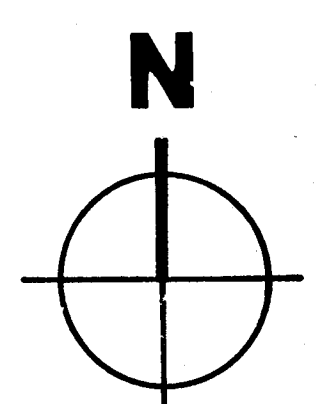
1. FIRE DAMPER DETAIL FOR REFERENCE ONLY.
2. FIRE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED AND INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS.
3. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.

TRANSFER GRILLE ASSEMBLY DETAIL
SCALE: NONE

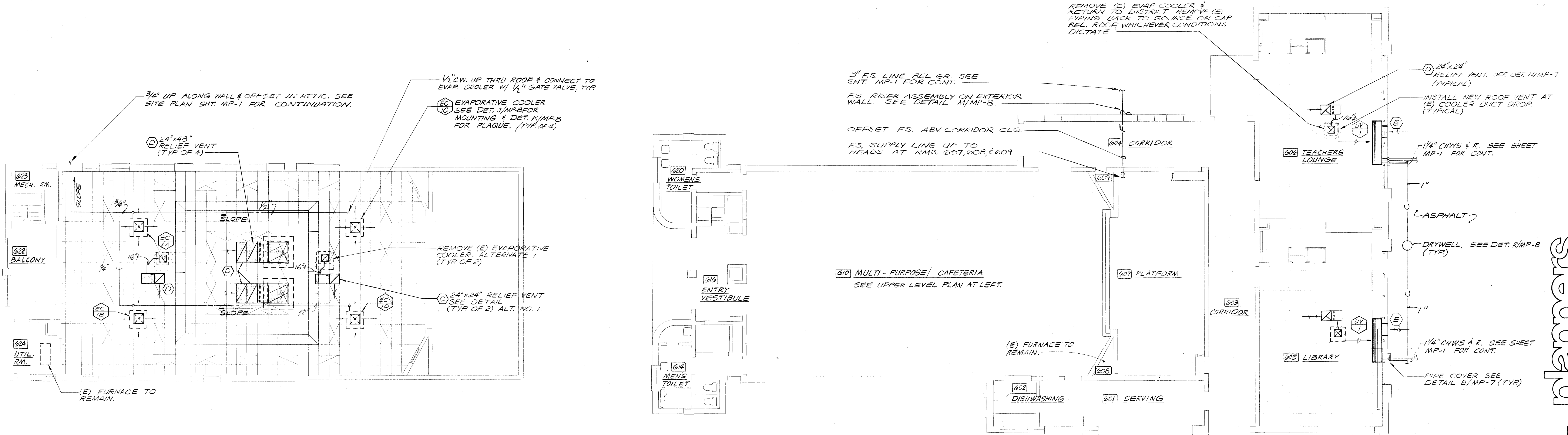
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MP-3



BUILDING 500 AIR CONDITIONING PLAN
SCALE: 1/8" = 1'-0"



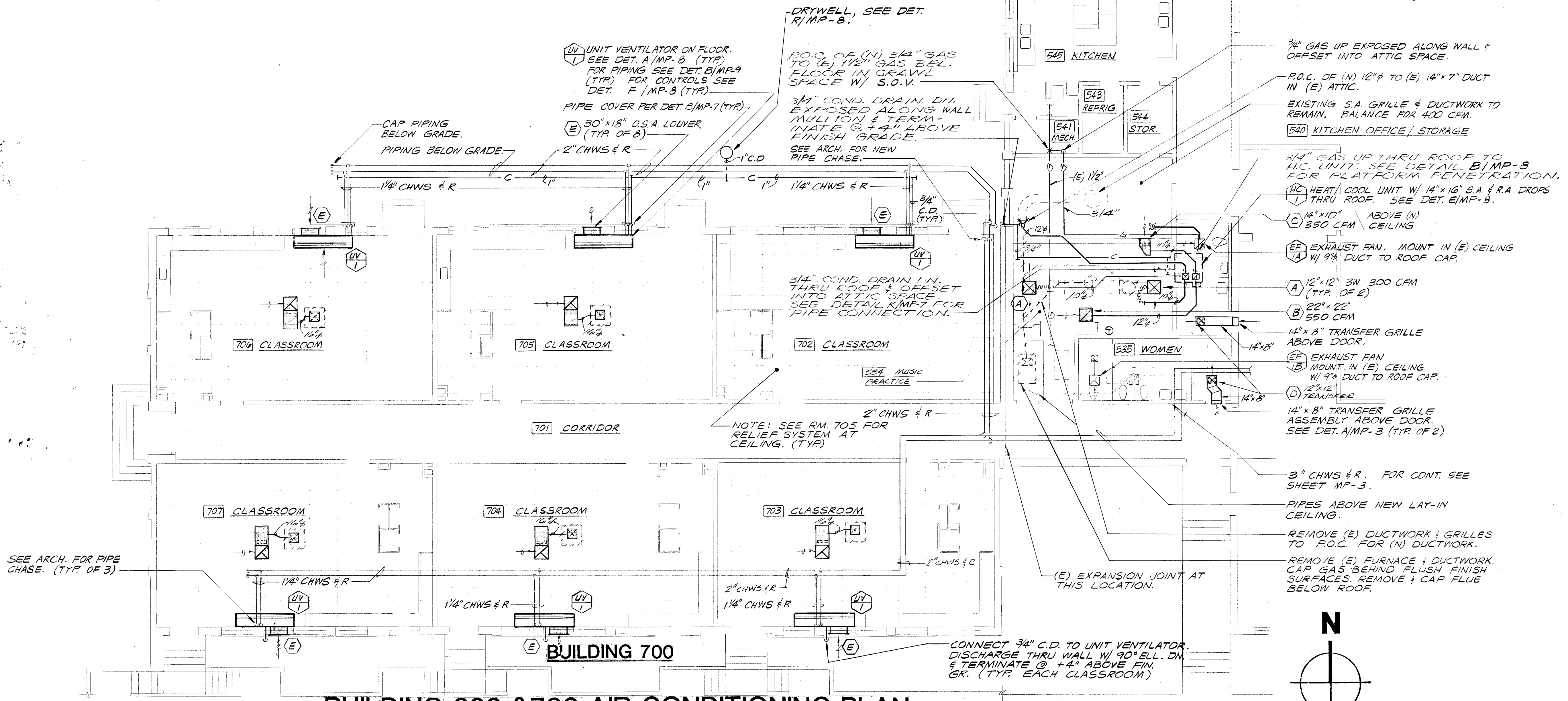
approved			 Donald K. Lawrence & Associates CONSULTING MECHANICAL ENGINEERS, INCORPORATED <small>1300 W. Street Avenue, Suite 101 Bakersfield, CA 93311 (805) 338-6101 MEX1004 FAX: 805-334-4317</small>	C • 3269 C • 3132 C • 6584 D.R. CURTIN © copyrighted 1997	bfgc inc. architects planners <small>31 south real road box 9698 bakersfield california 93309 805 832 8122</small>	BUILDING 500 AIR CONDITIONING PLAN SCALE: 1/8" = 1'-0" HORACE MANN MODERNIZATION BAKERSFIELD CITY SCHOOL DISTRICT 2710 NILES AVENUE BAKERSFIELD, CALIFORNIA 93307	job 67-127 date 1 FEB 91	sheet MP-3
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BUILDING 600 2ND FLOOR

BUILDING 600

- FIRE SPRINKLER NOTES:**
1. THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE 1995 EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 13.
 2. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE-STOPPING SHALL BE OF AN APPROVED MATERIAL AS PRESCRIBED IN STATE FIRE MARSHAL STANDARD 43-1.
 3. INSTALLATION OF THE FIRE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS (INCLUDING WATER SUPPLY INFORMATION AND TYPE OF EXISTING SYSTEM, IF ANY) HAVE BEEN APPROVED BY THE STATE FIRE MARSHAL.
 4. AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM MUST BE TESTED IN THE PRESENCE OF THE ENFORCING AGENCY.
 5. REFER TO FIRE SPRINKLER SYSTEM SPECIFICATION SECTION 15500 FOR ADDITIONAL INFORMATION.



BUILDING 600 & 700 AIR CONDITIONING PLAN
SCALE: 1/8" = 1'-0"

approved

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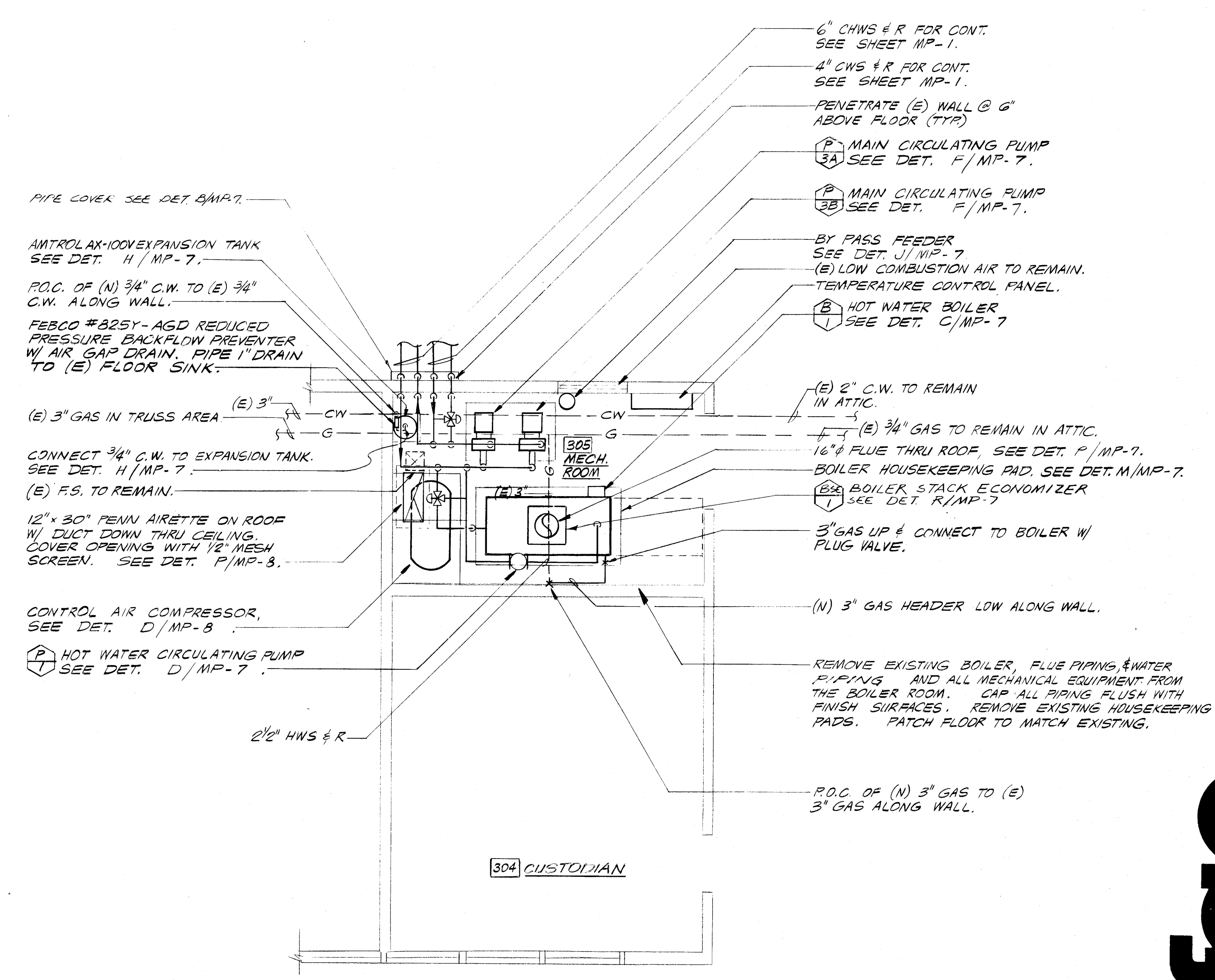
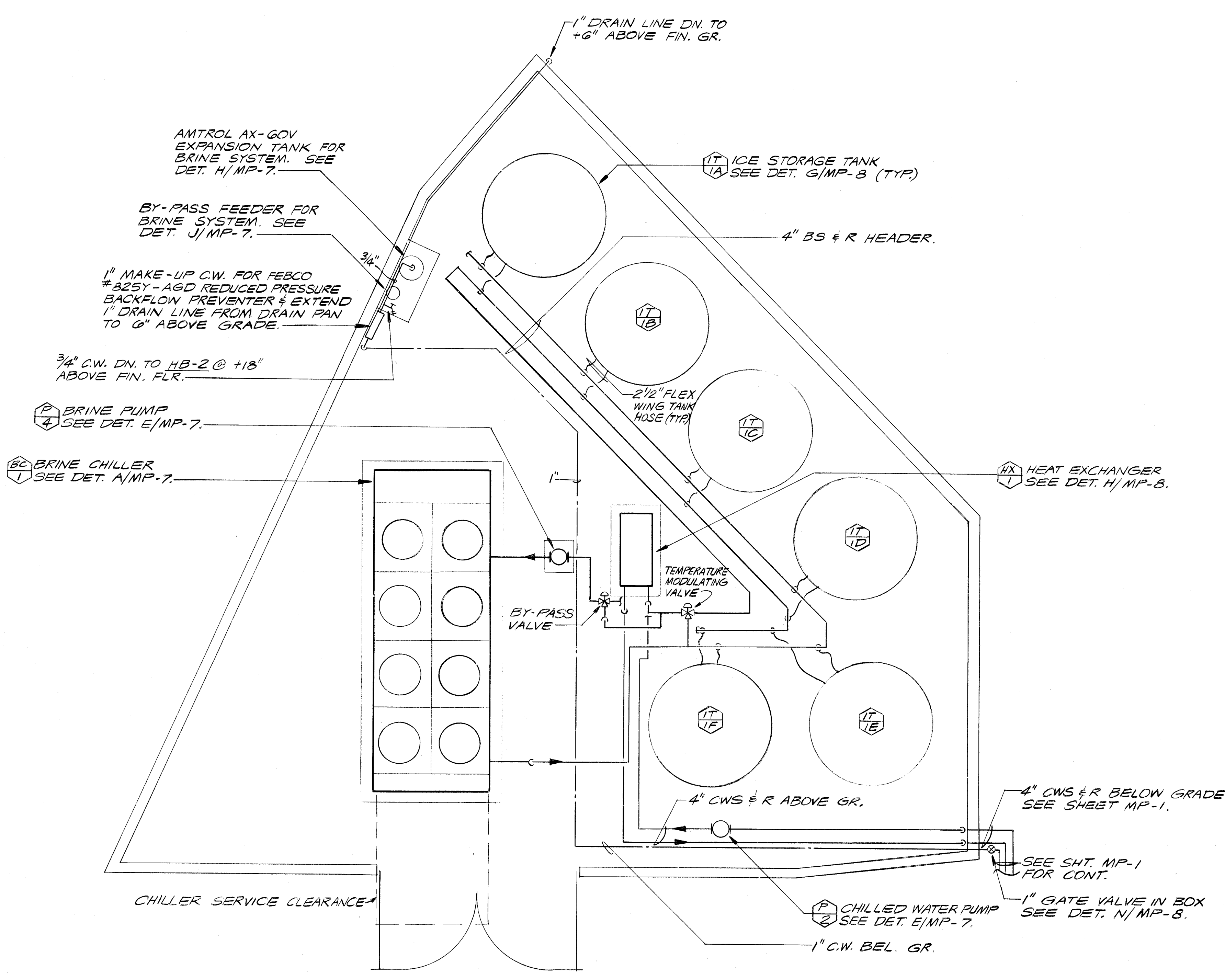
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BUILDING 600 & 700 AIR CONDITIONING PLAN SCALE: 1/8"=1'-0"
HORACE MANN MODERNIZATION
BAKERSFIELD CITY SCHOOL DISTRICT
2710 NILES AVENUE
BAKERSFIELD, CALIFORNIA 93307

job 87-127
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MP-4

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CHILLER & ICE STORAGE YARD PLAN
SCALE: 1/4" = 1'-0"

MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0" (BUILDING 300)

approved

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CHILLER & ICE STORAGE YARD PLAN - BOILER ROOM PLAN SCALE: 1/4"=0
HORACE MANN MODERNIZATION
BAKERSFIELD CITY SCHOOL DISTRICT
2710 NILES AVENUE
BAKERSFIELD, CALIFORNIA 93307

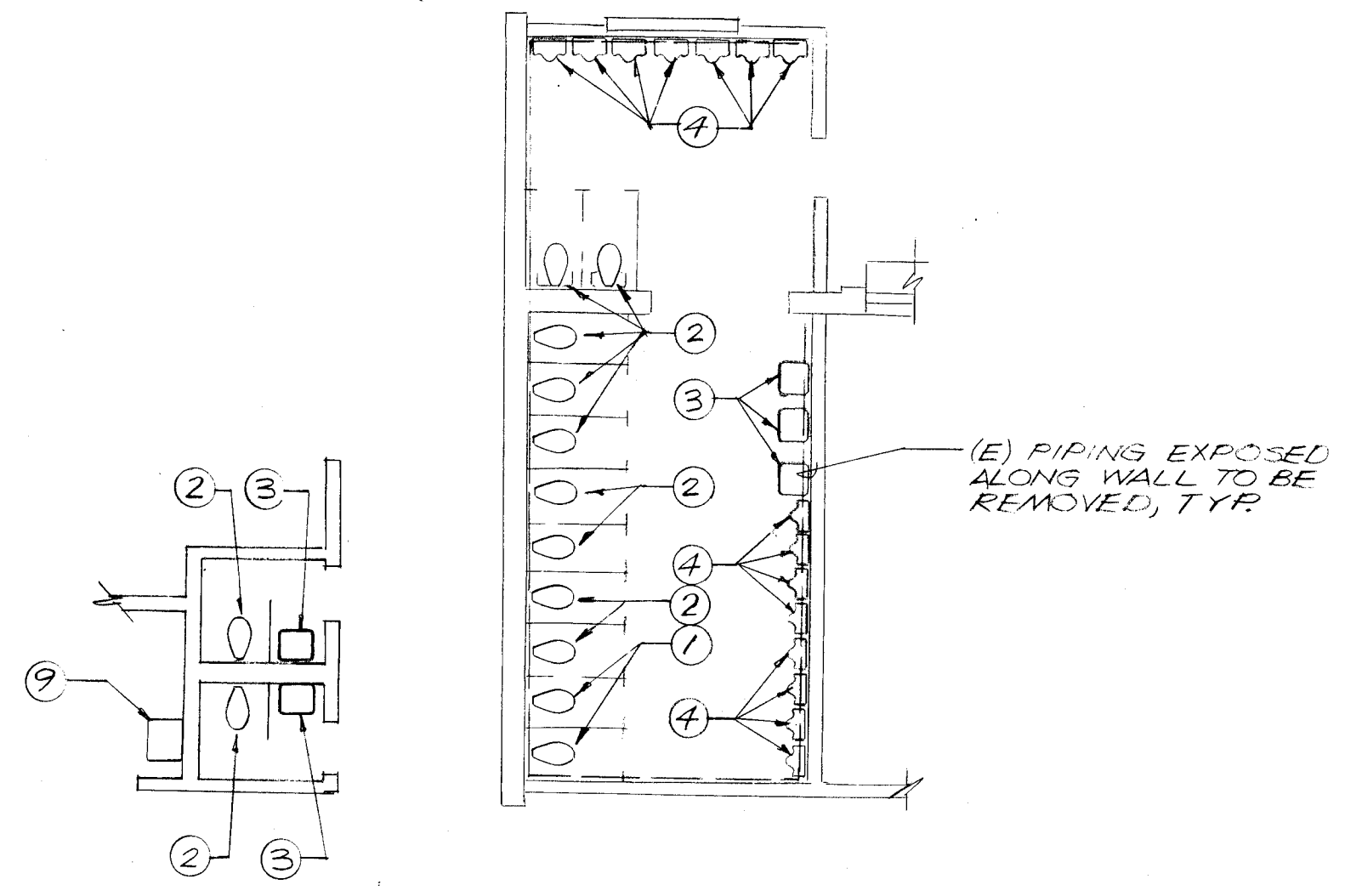
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MP-5

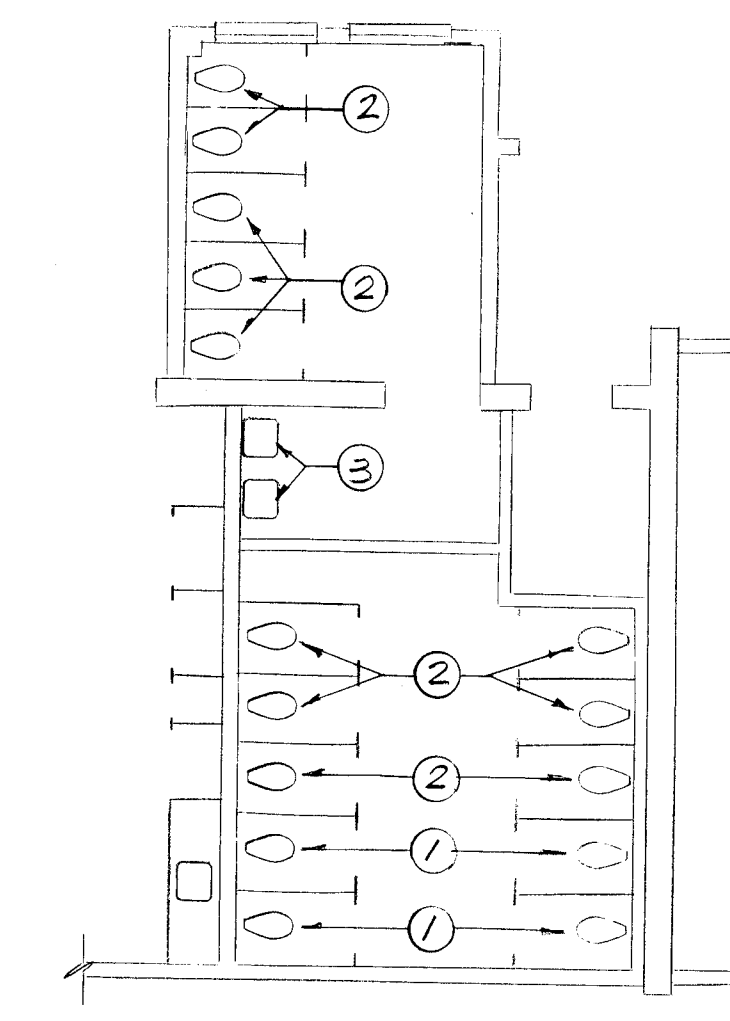
NOTE:
1. PLUMBING FIXTURES THAT ARE REMOVED & NOT USED ARE TO BE DELIVERED TO THE SCHOOL DISTRICT.

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE						
CONNECTION SIZES						
MARK	FIXTURE	S OR W	V.	C.W.	H.W.	DESCRIPTION
FD-1	FLOOR DRAIN	2"	1-1/2"	-	-	JAY R. SMITH #2010-B, W/5" SQUARE NICKEL BRONZE STRAINER. PROVIDE TRAP PRIMER CONNECTION WHEN APPLICABLE.
HB-1	HOSE BIBB	-	-	3/4"	-	CHICAGO #52 POLISHED CHROME WALL HOSE VALVE W/VANDAL-PROOF LOCKSHIELD, VACUUM BREAKER AND REMOVABLE HANDLE.
HB-2	HOSE BIBB	-	-	3/4"	-	ACORN #8121 ROUGH BRONZE WALL HOSE VALVE W/VANDAL-PROOF LOCKSHIELD, VACUUM BREAKER, AND REMOVABLE HANDLE.
FV-1	FLUSH VALVE	-	-	1"	-	SLOAN "ROYAL" #110-3 FLUSH VALVE.
WCS-1	WATER CLOSET SEAT	-	-	-	-	OLSONITE #95 CC/SS OPEN-FRONT SEAT.
WC-1	WATER CLOSET	4"	2"	-	-	NICKEL CHAINING WATER GUARD #4022-ET W/ SLOAN #110-3 FLUSH VALVE AND OLSONITE #42-210CC, 5" HIGH LIFT SEAT.
LT-1	LAVATORY TRIM	-	-	1/2"	-	CHICAGO #335-E12 "TIP-TAP" SELF-CLOSING FAUCET INDEXED "C" AND "AMERICAN" STANDARD #2411.015 GRID DRAIN.
LT-2	LAVATORY TRIM	-	-	1/2"	1/2"	CHICAGO #700-E12 "QUAHRM" BASIN FAUCET WITH #525 CROSS HANDLE AND # L15 SOFTFLOW AERATOR. INDEX ONE WITH "C" AND ONE WITH "H", AND AMERICAN STANDARD #2411.015 GRID DRAIN.
U-1	URINAL	2"	1-1/2"	1"	-	AMERICAN STANDARD "ALLBROOK" #6540.017 WITH SLOAN "ROYAL" #180 FLUSH VALVE, AND JAY R. SMITH #644 SUPPORT CARRIER.
U-2	URINAL	2"	1-1/2"	1"	-	AMERICAN STANDARD "ALLBROOK" #6540.017 WITH SLOAN "ROYAL" #180 FLUSH VALVE, AND JAY R. SMITH #644 SUPPORT CARRIER, MOUNTED AT HANDICAP HEIGHT, SEE ARCH.
L-1	LAVATORY	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD "NEW LUCERNE" #0355.012, 20" x 18" WITH #2411.015 GRID DRAIN, #2000.100 SINGLE LEVER FAUCET AND JAY R. SMITH #700-Z SUPPORT CARRIER.
L-2	LAVATORY	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD "NEW LUCERNE" #0355.012, 20" x 18" WITH #2411.015 GRID DRAIN, #2000.100 SINGLE LEVER FAUCET AND JAY R. SMITH #700-Z SUPPORT CARRIER. MOUNT AT HANDICAP HEIGHT.
EDF-1	ELECTRIC DRINKING FOUNTAIN	2"	1-1/2"	1/2"	-	SUNROC #HCWC-85 WALL-MOUNT FOR WHEELCHAIR ACCESS, WITH STAINLESS STEEL CABINET AND JAY R. SMITH #800 CABINET AND JAY R. SMITH #800 SUPPORT CARRIER. 1/5 HP., 120V/1 PHASE.

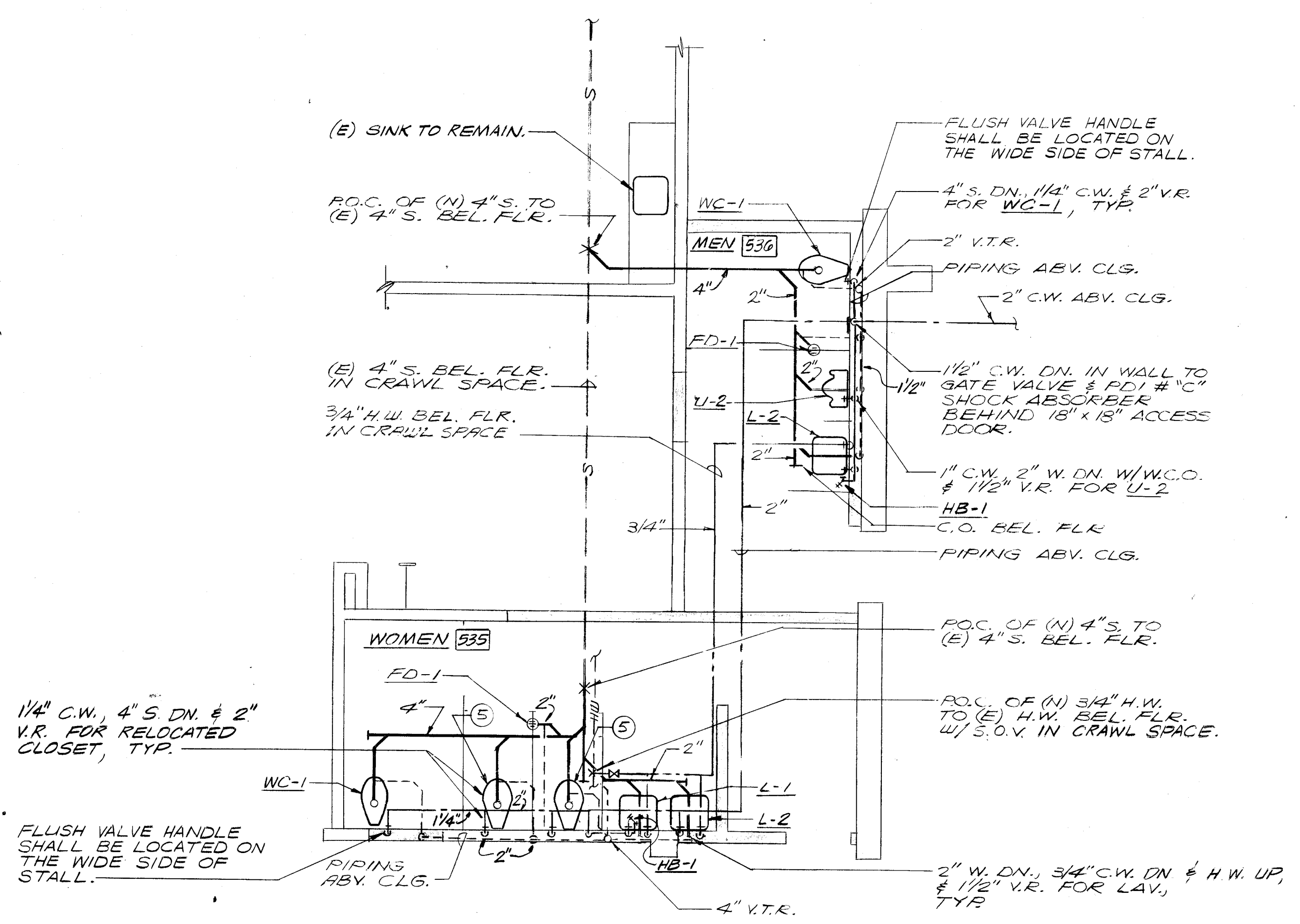
- KEYNOTES
- EXISTING WATER CLOSET TO BE REMOVED AND RELOCATED IN NEW TOILET ROOMS, BLDG 500 & 700 CAP PIPING BEHIND FINISH SURFACES. SEE REMODEL DETAILS C AND D/MP-G.
 - EXISTING WATER CLOSET TO BE REMOVED. CAP PIPING BEHIND FINISH SURFACES.
 - EXISTING LAVATORY TO BE REMOVED AND RELOCATED IN NEW TOILET ROOMS BLDG 500 & 700 CAP PIPING BEHIND FINISH SURFACES.
 - EXISTING URINAL TO BE REMOVED. CAP PIPING BEHIND FINISH SURFACES.
 - NEW LOCATION OF EXISTING WATER CLOSET. SCRUB CLEAN AND PROVIDE NEW FLUSH VALVE ASSEMBLY FV-1 AND NEW SEAT WCS-1. SEE PLAN FOR NEW PIPING.
 - NOT USED
 - NEW LOCATION OF EXISTING LAVATORY. SCRUB CLEAN AND PROVIDE NEW LT-1, TAILPIECE, P-TRAP, TRAP ARM, SUPPLY AND STOP. SEE PLAN FOR NEW PIPING.
 - NEW LOCATION OF EXISTING LAVATORY AT HANDICAP HEIGHT. PROVIDE LT-1, TAILPIECE, P-TRAP, TRAP ARM, SUPPLY AND STOP. SEE PLAN FOR NEW PIPING.
 - EXISTING SERVICE SINK TO BE REMOVED. CAP PIPING BEHIND FINISH SURFACES.
 - NOT USED
 - EXISTING F.D. TO REMAIN. PROVIDE NEW NICKEL BRONZE STRAINER. FLUSH WITH FLOOR.



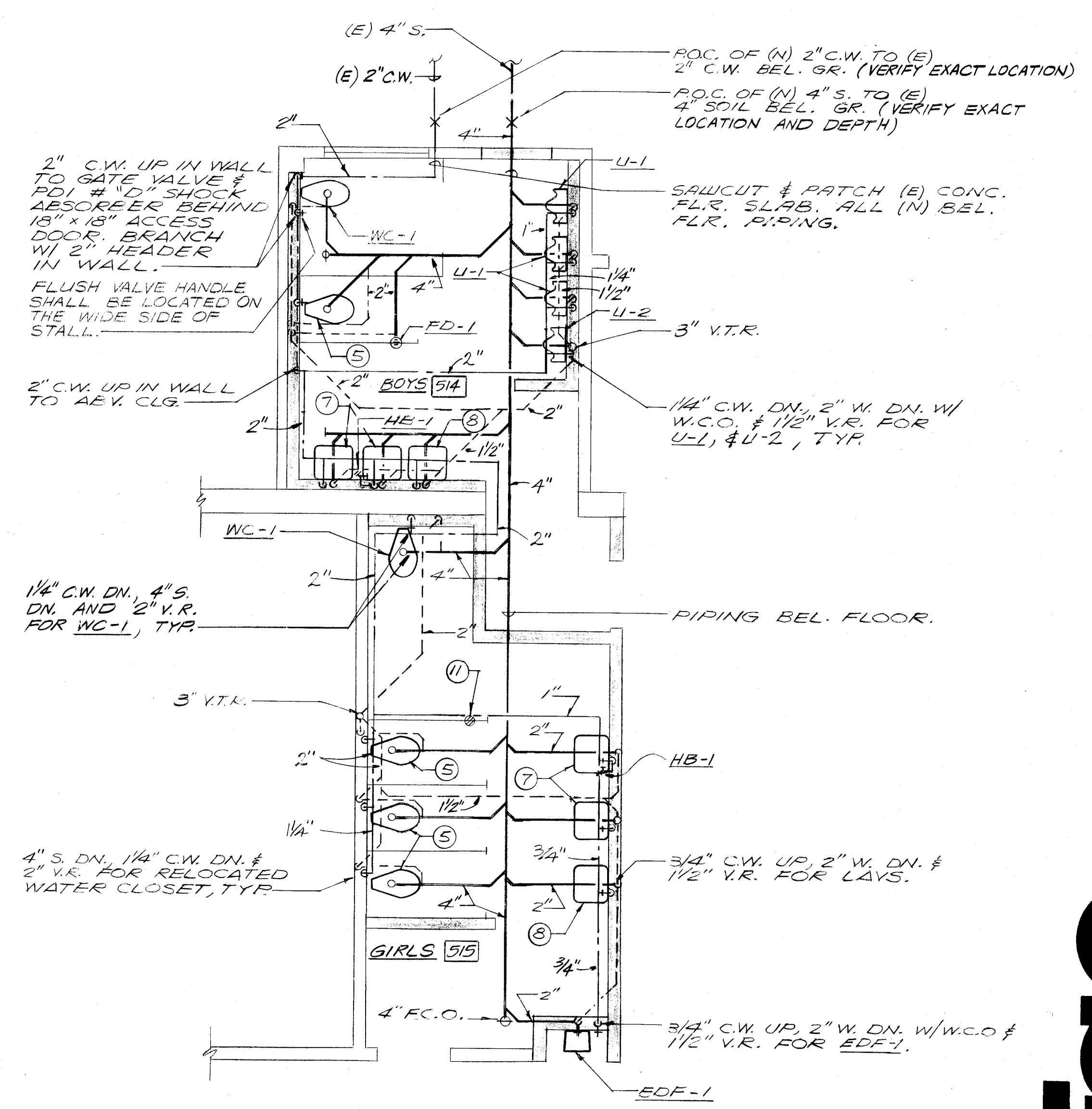
PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



PLUMBING DEMOLITION PLAN
SCALE: 1/8" = 1'-0" ALTERNATE # 3A



PLUMBING REMODEL PLAN
SCALE: 1/4" = 1'-0"



PLUMBING REMODEL PLAN
SCALE: 1/4" = 1'-0" ALTERNATE # 3A

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2/27/21

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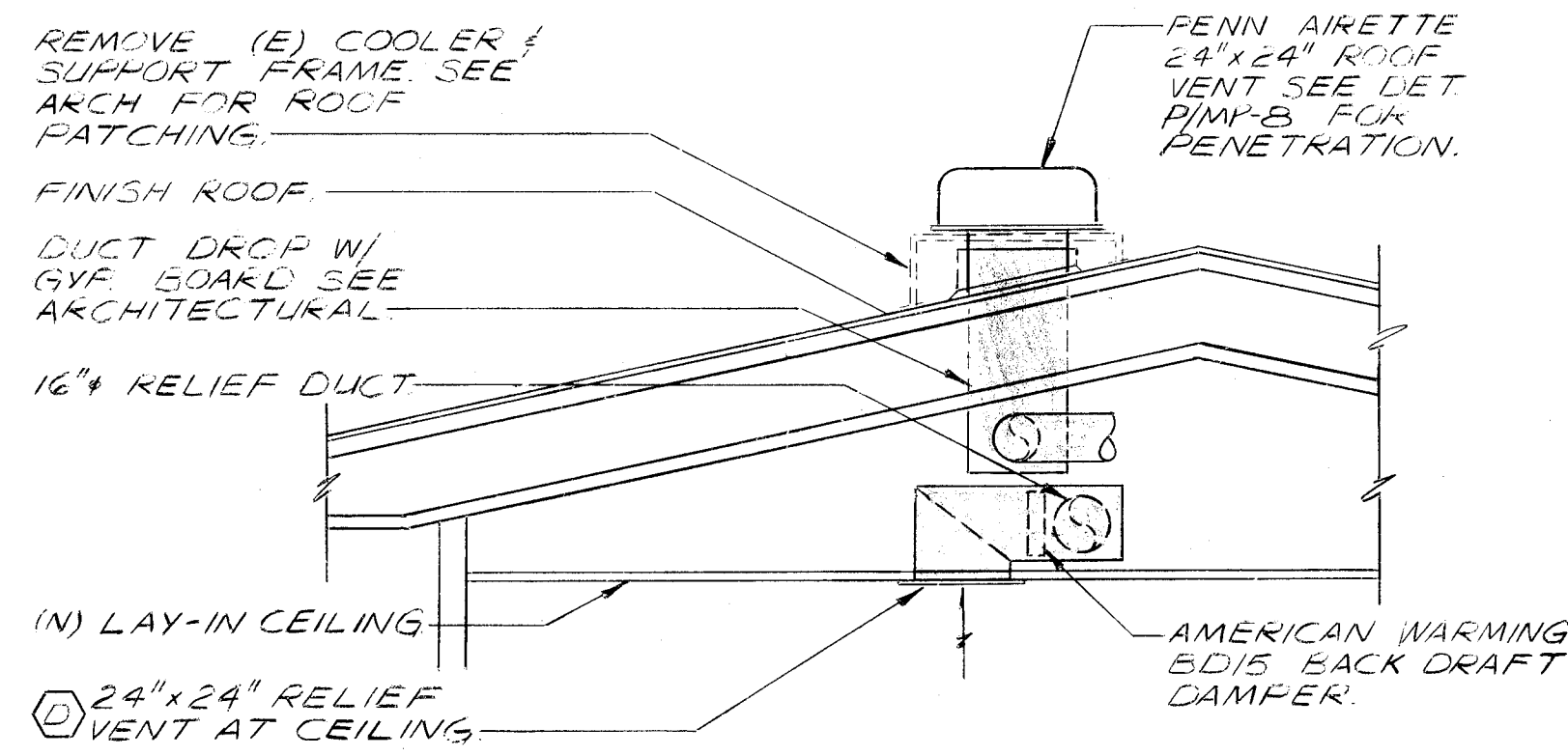
PLUMBING DETAILS & SCHEDULES
HORACE MANN MODERNIZATION
BAKERSFIELD CITY SCHOOL DISTRICT
2710 NILES AVENUE
BAKERSFIELD, CALIFORNIA 93307

job 87-127
date FEB 89

MP-6

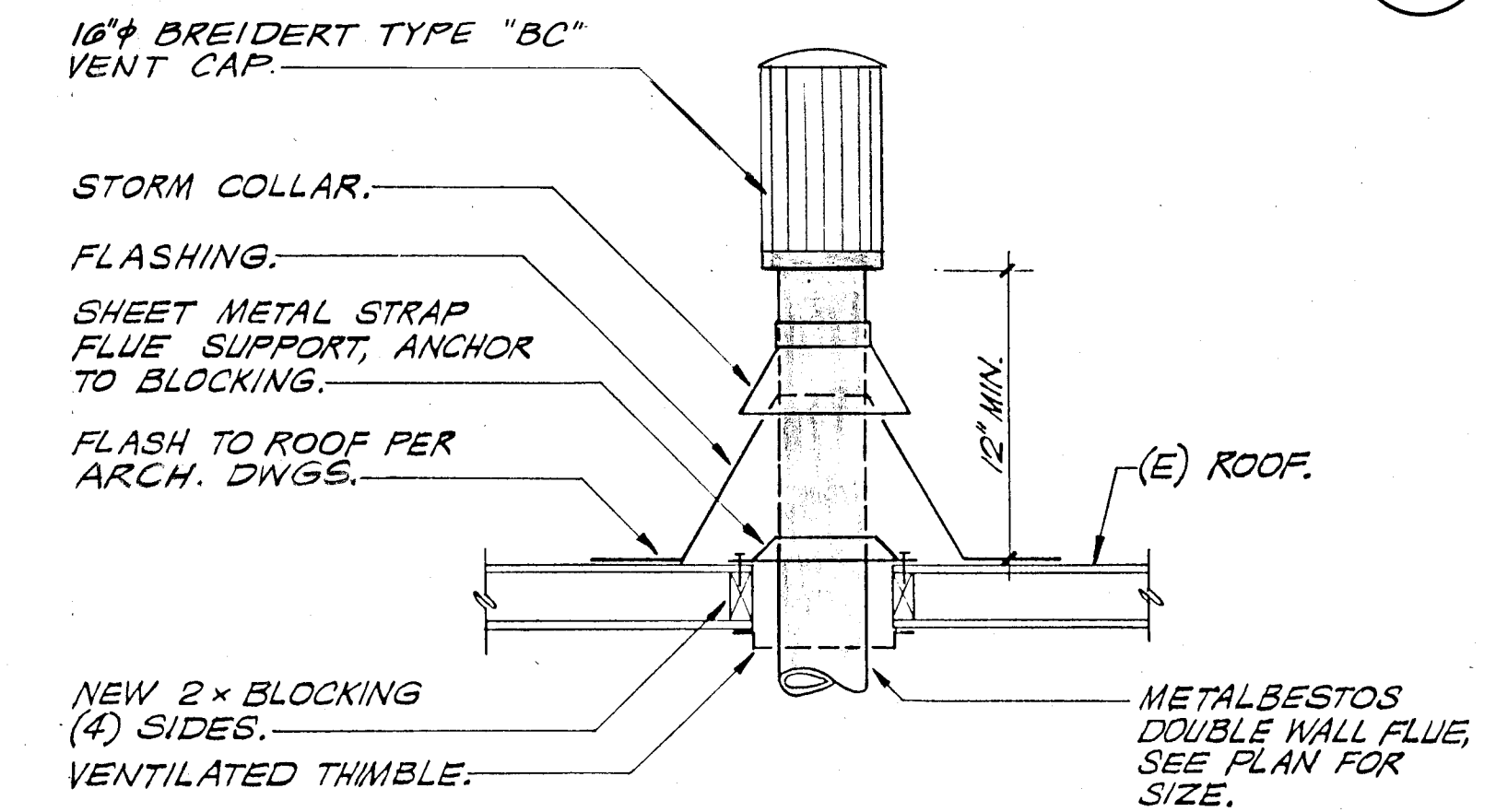
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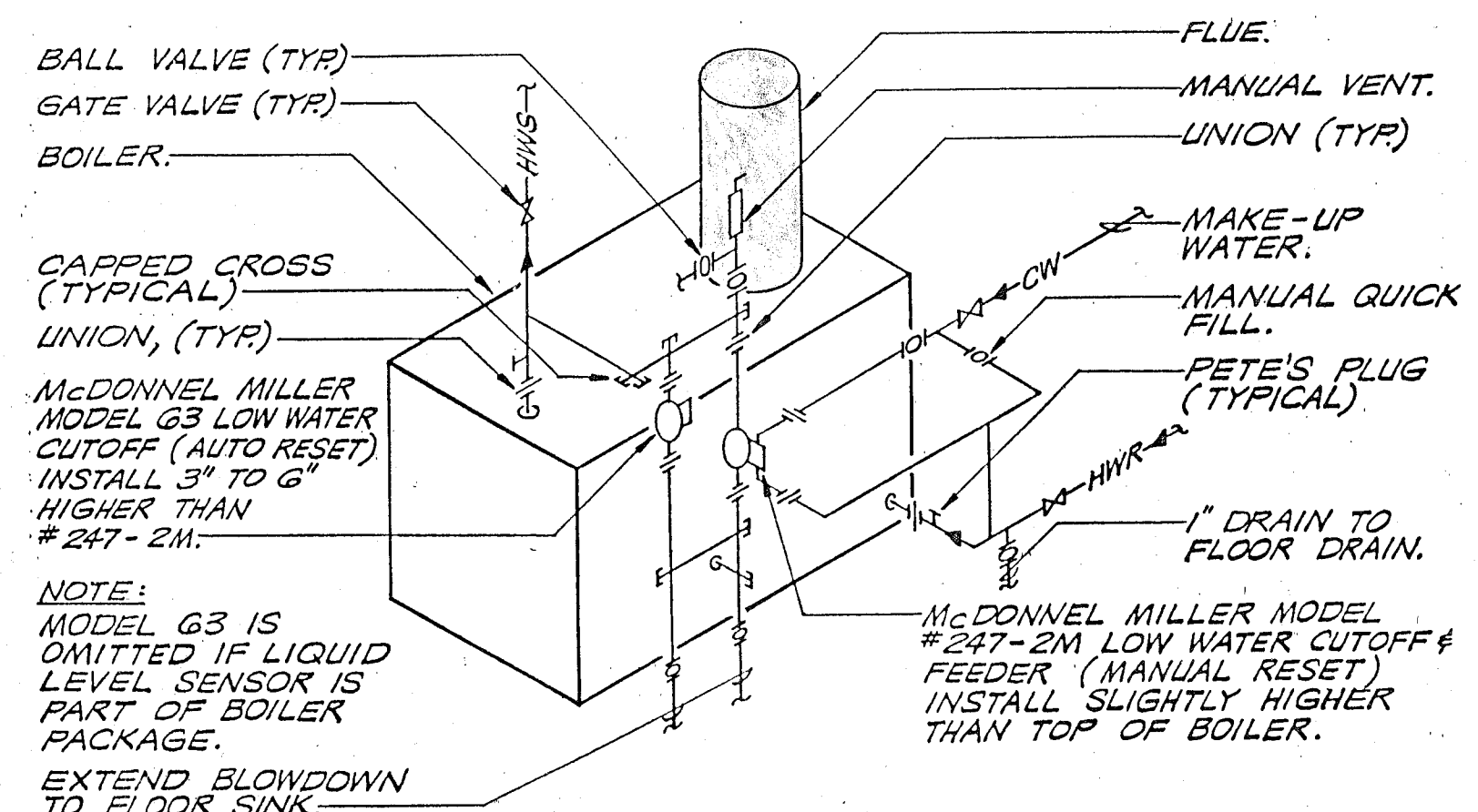
SECTION AT RELIEF VENT
SCALE: NONE

N
MP-7



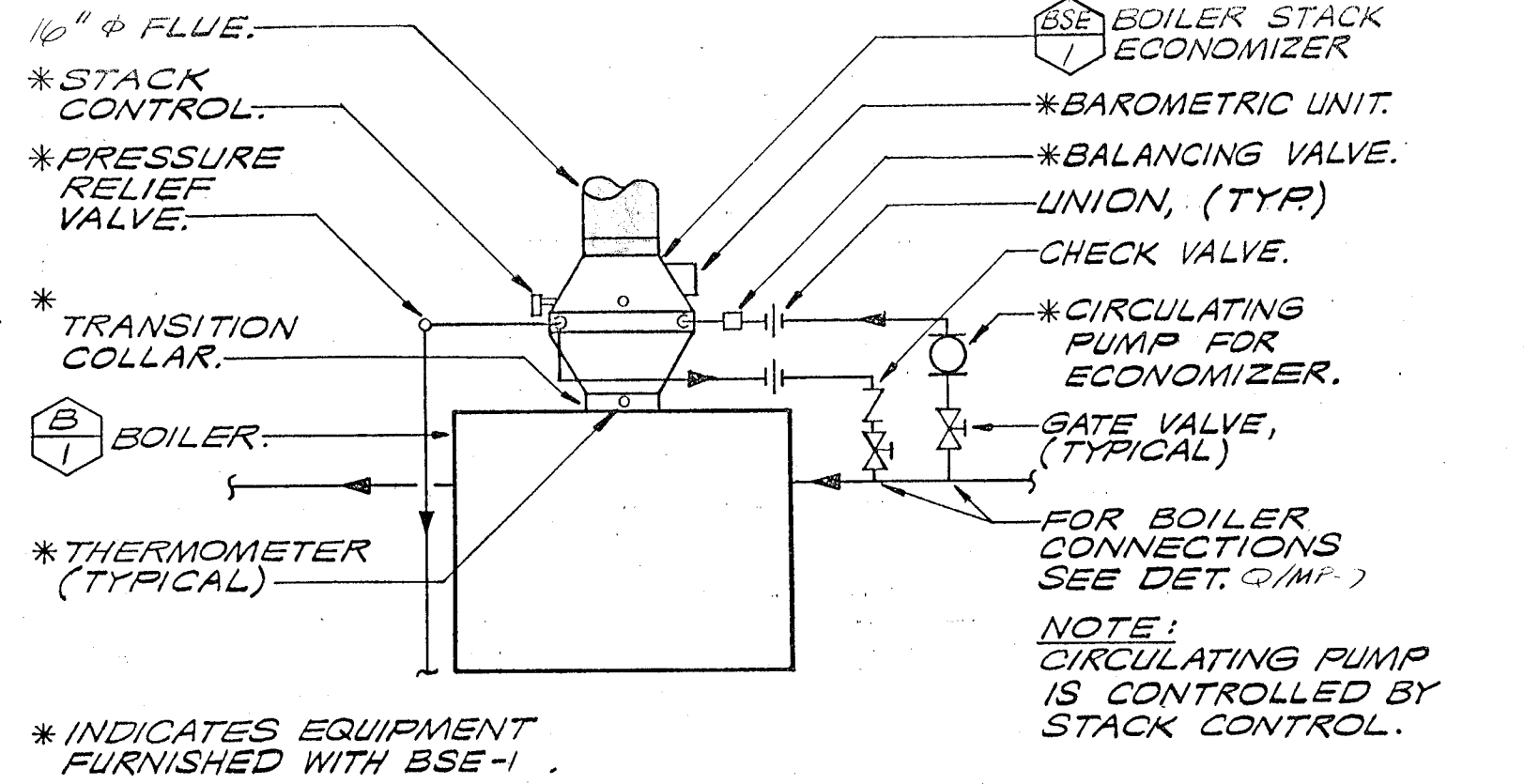
FLUE THRU ROOF DETAIL
SCALE: NONE

P
MP-7



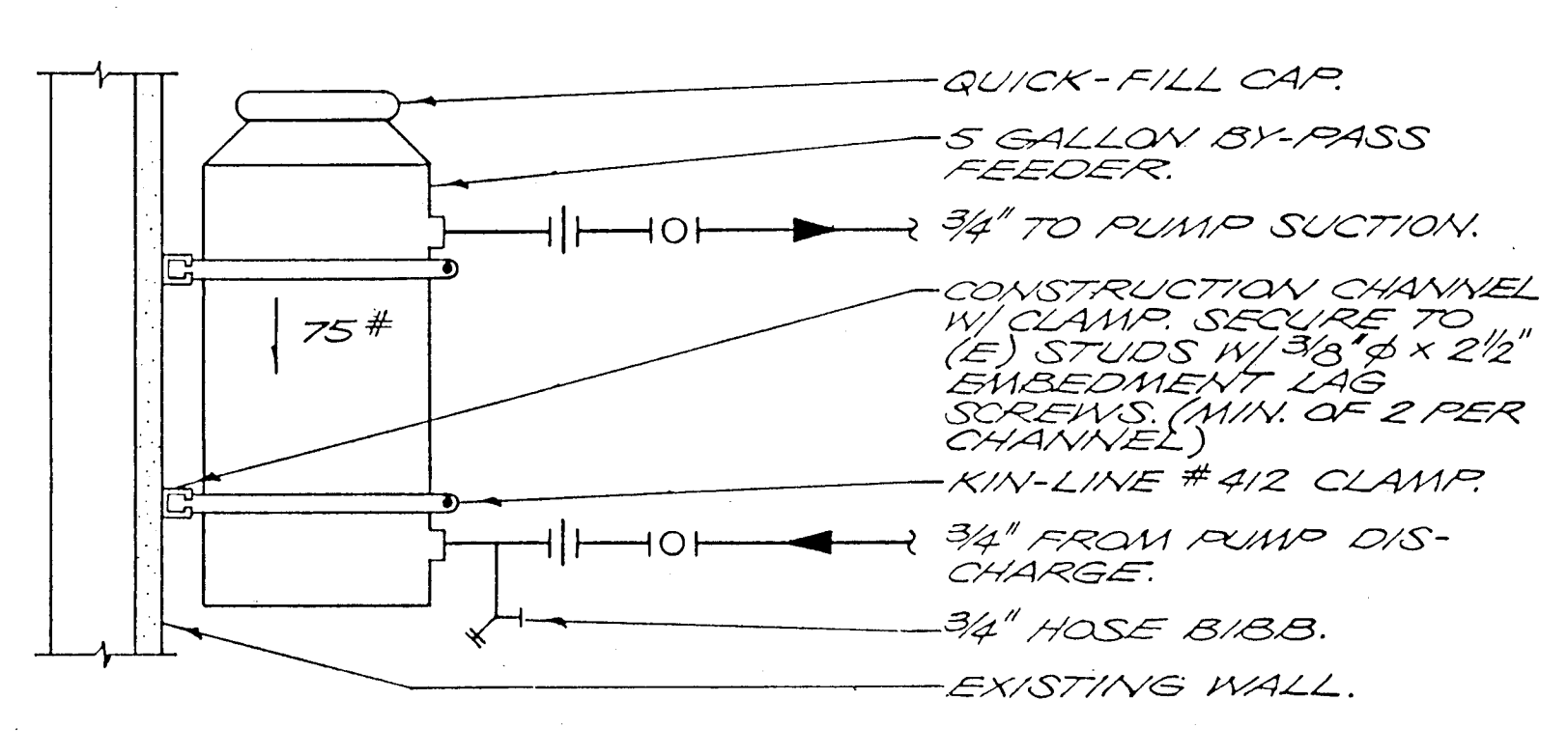
BOILER PIPING DETAIL
SCALE: NONE

Q
MP-7



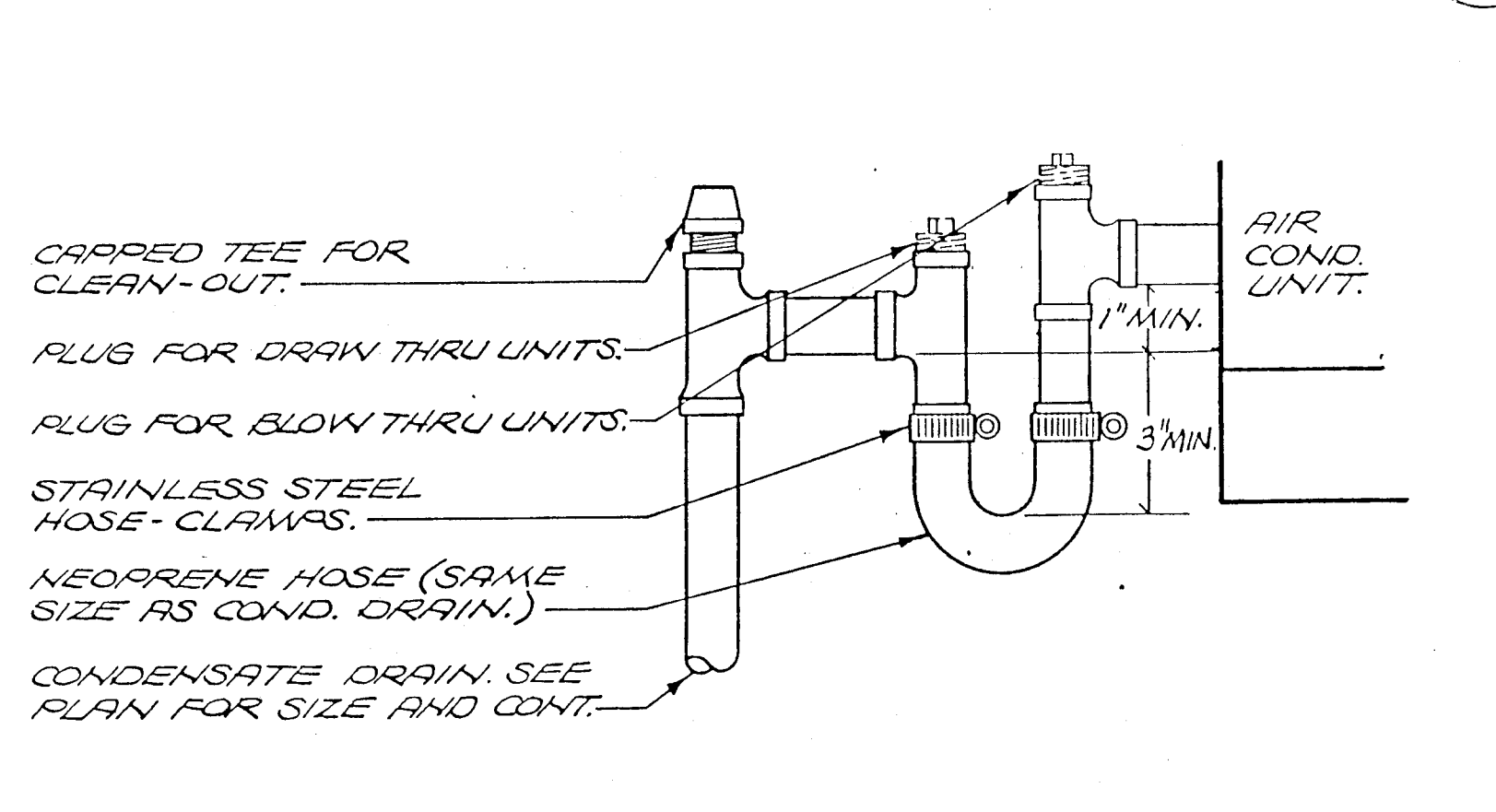
BOILER STACK ECONOMIZER DETAIL
SCALE: NONE

R
MP-7



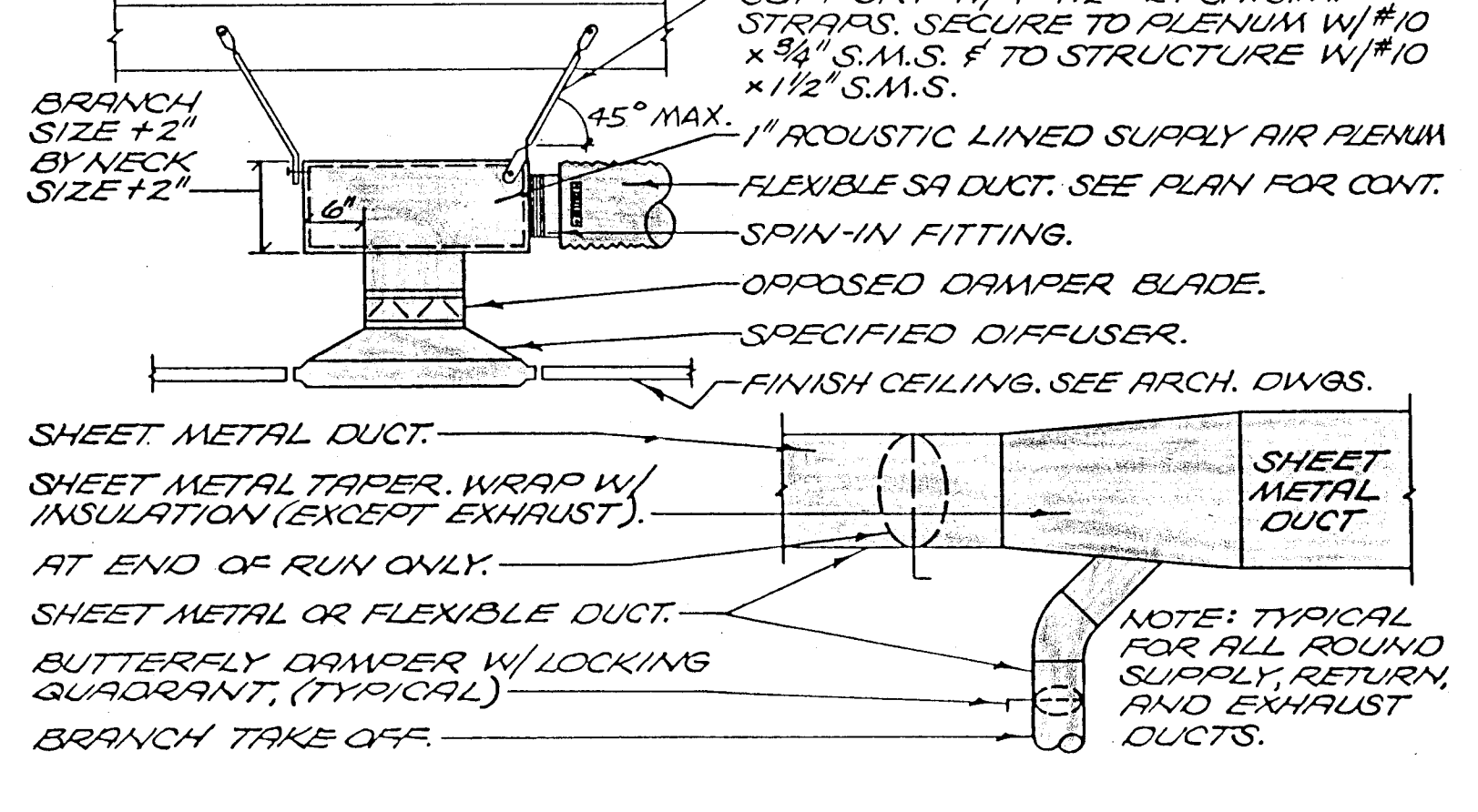
CLOSED SYSTEM BY-PASS FEEDER
SCALE: NONE

J
MP-7



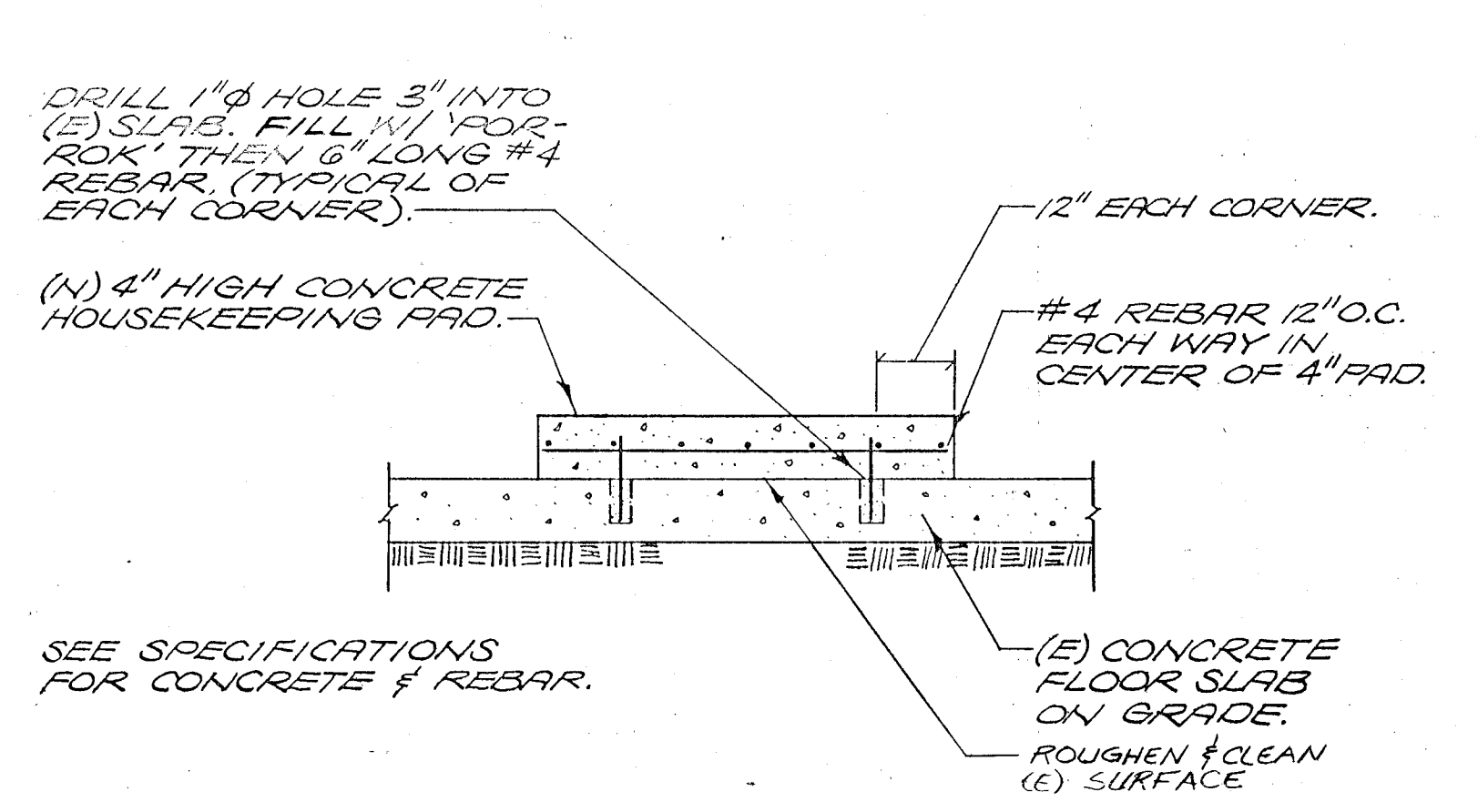
CONDENSATE DRAIN CONNECTION (UNIT HC-1)
SCALE: NONE

K
MP-7



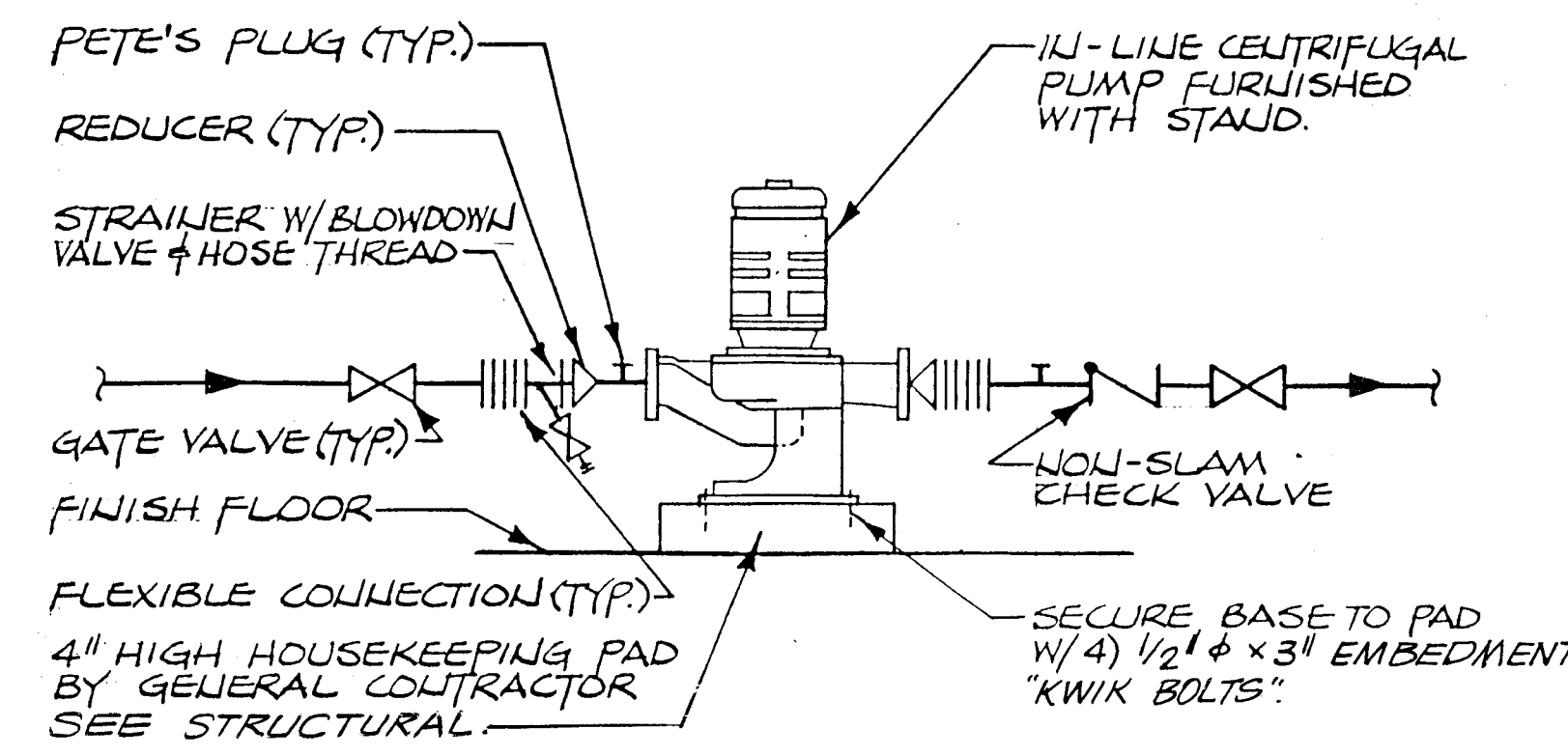
TYPICAL S.A. DEVICE-BRANCH DUCT DETAIL
SCALE: NONE

L
MP-7



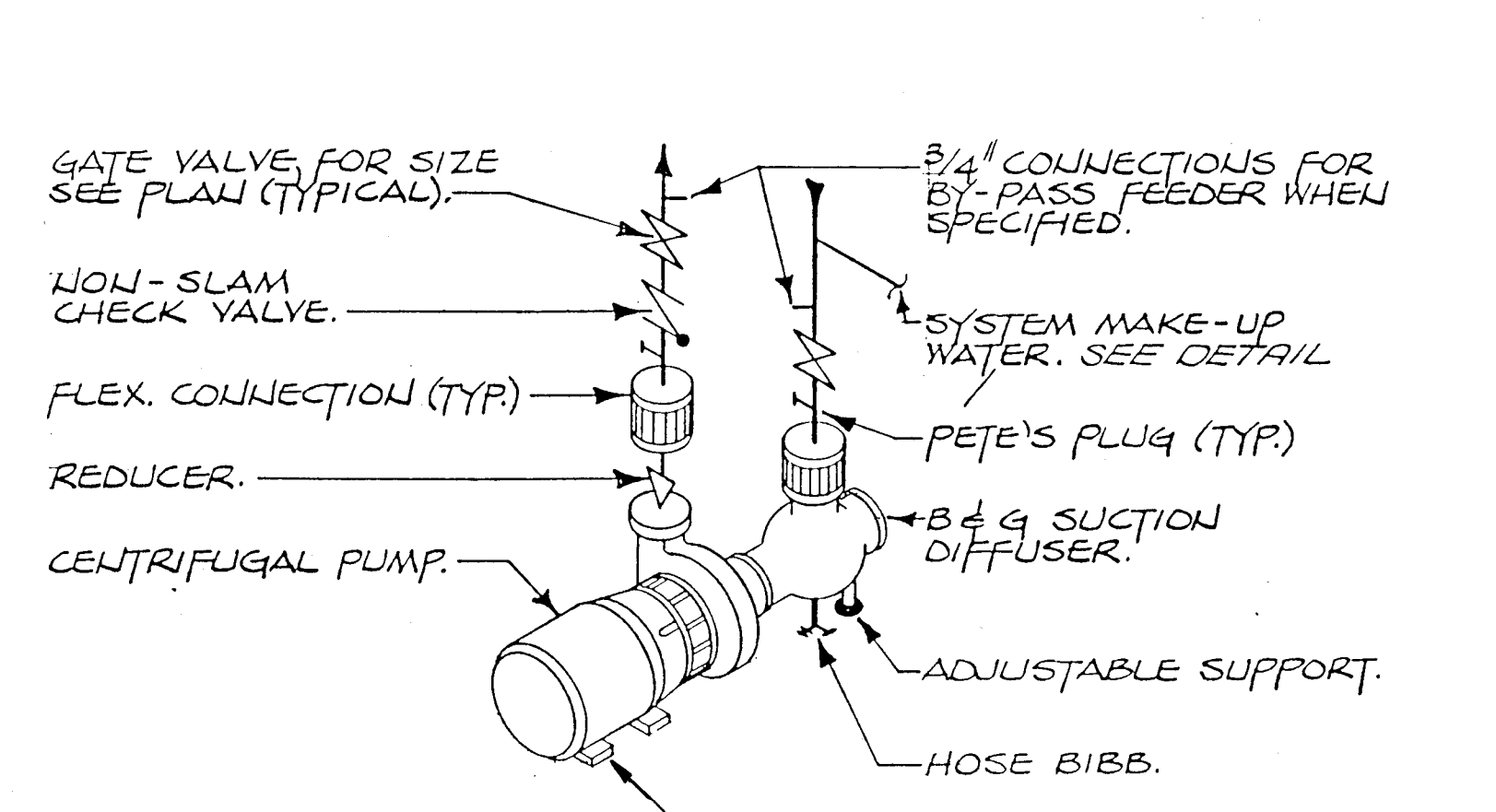
EQUIPMENT PAD
SCALE: NONE

M
MP-7



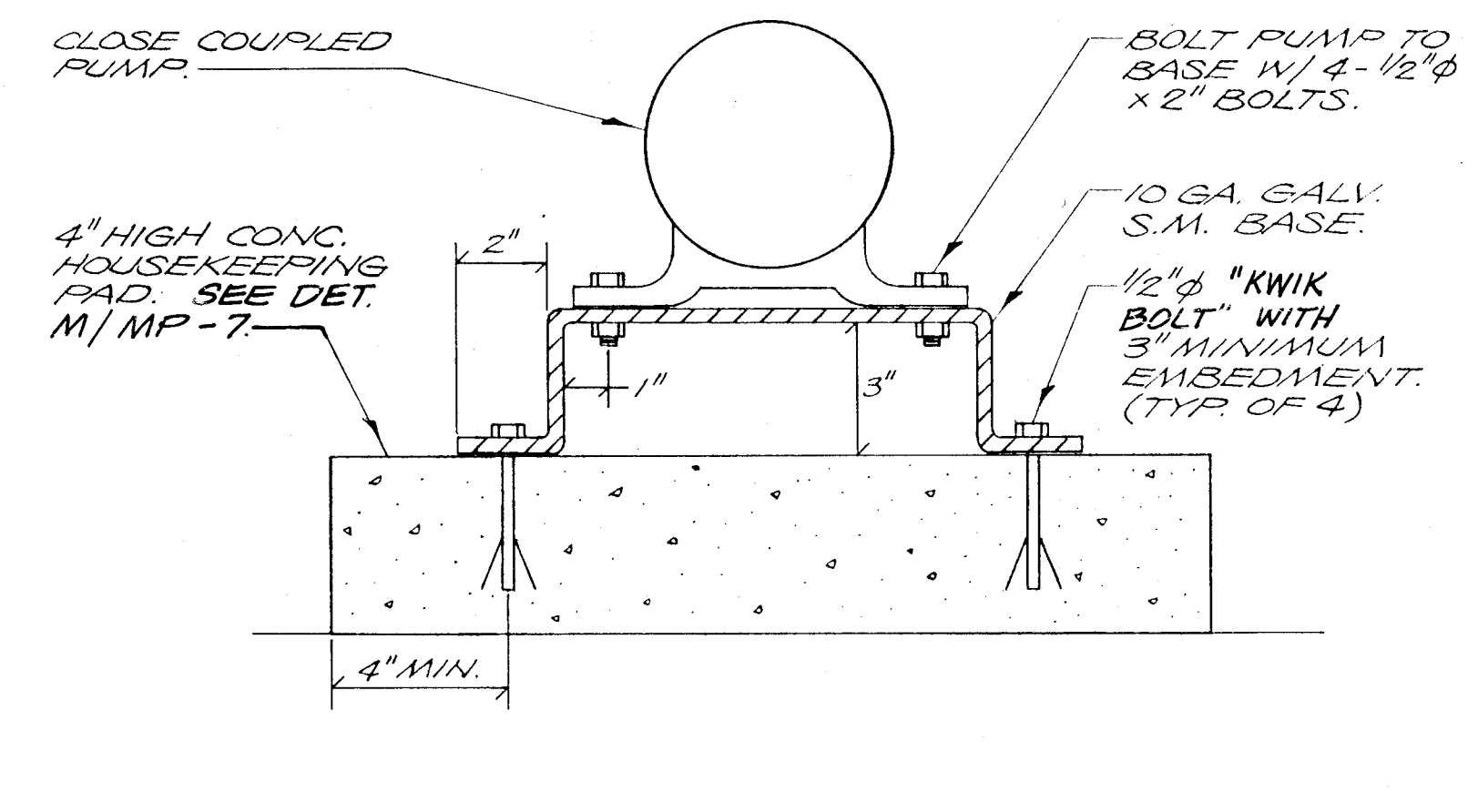
IN LINE PUMP PIPING (WITH SUPPORT STAND)
SCALE: NONE

E
MP-7



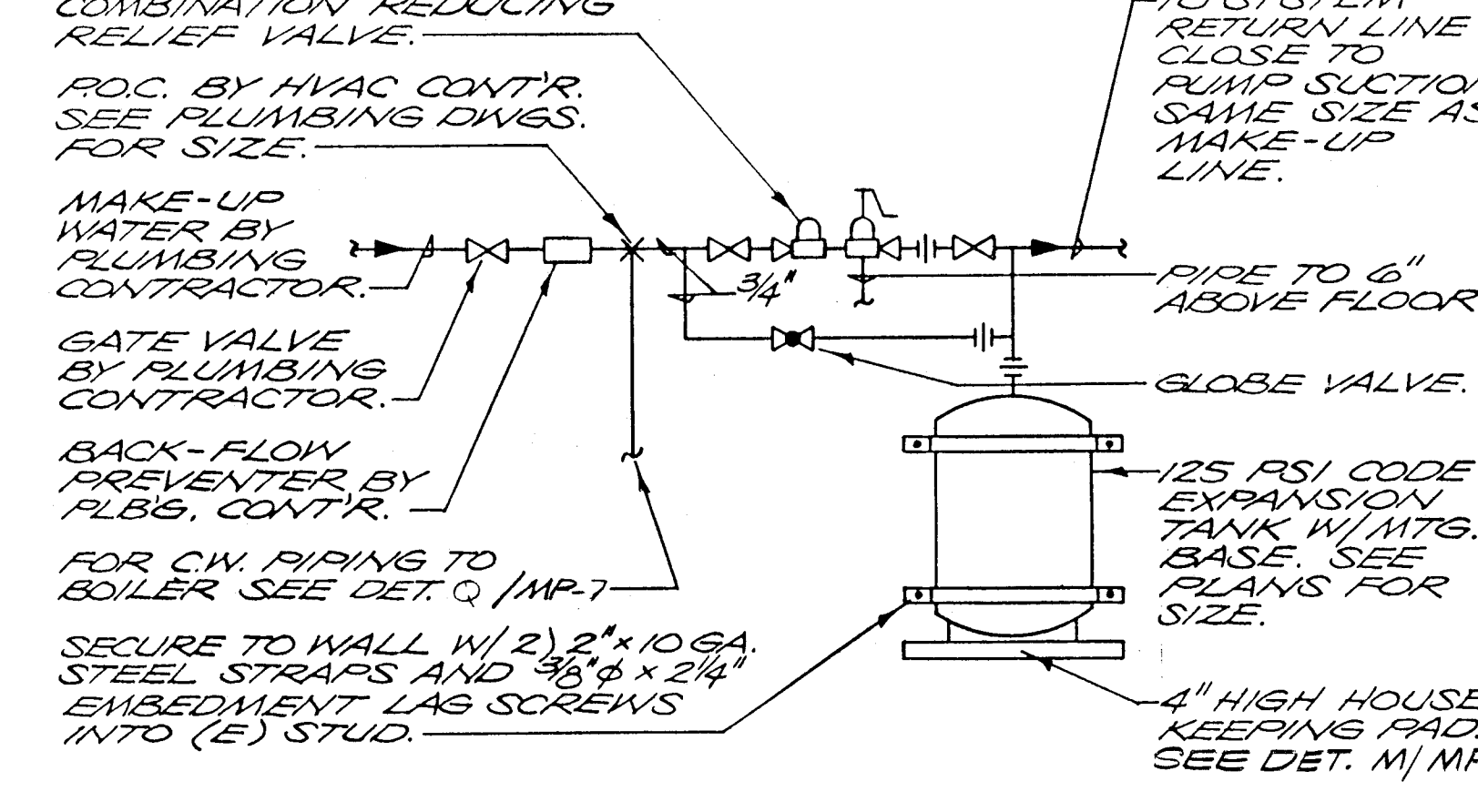
BASE MOUNTED PUMP PIPING
SCALE: NONE

F
MP-7



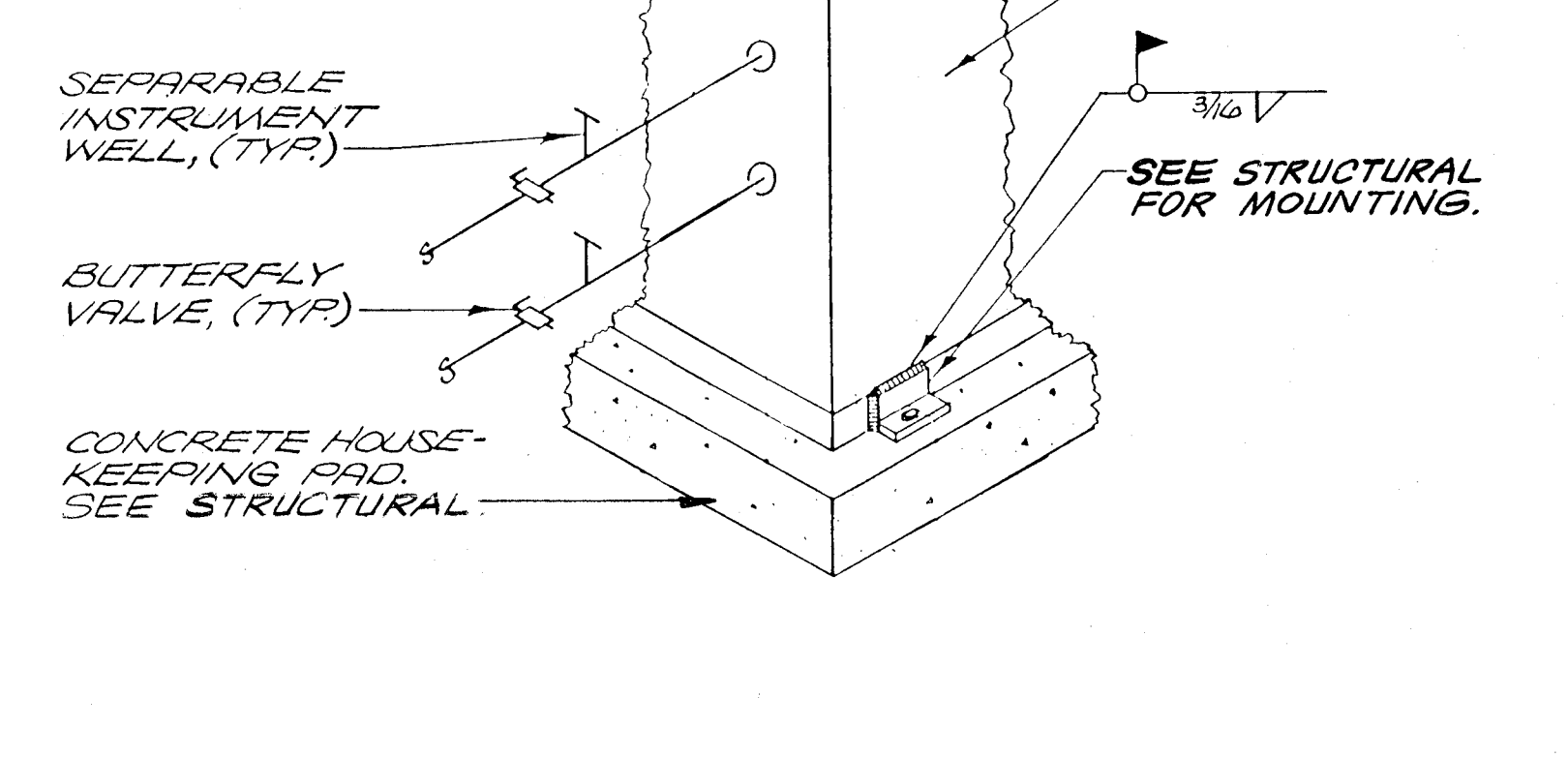
CLOSED COUPLED PUMP BASE
SCALE: NONE

G
MP-7



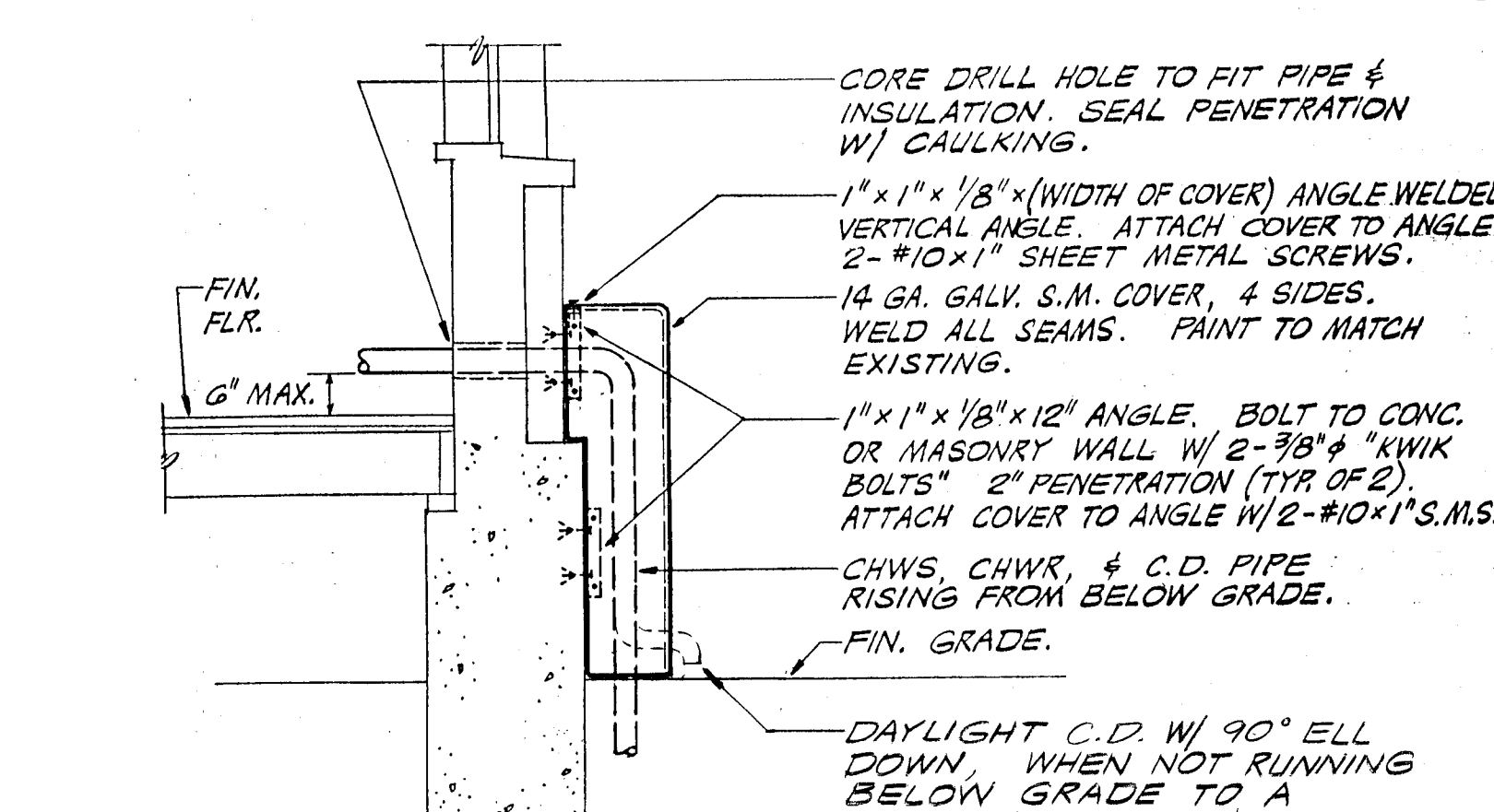
MAKE-UP WATER & EXPANSION TANK DETAIL
SCALE: NONE

H
MP-7



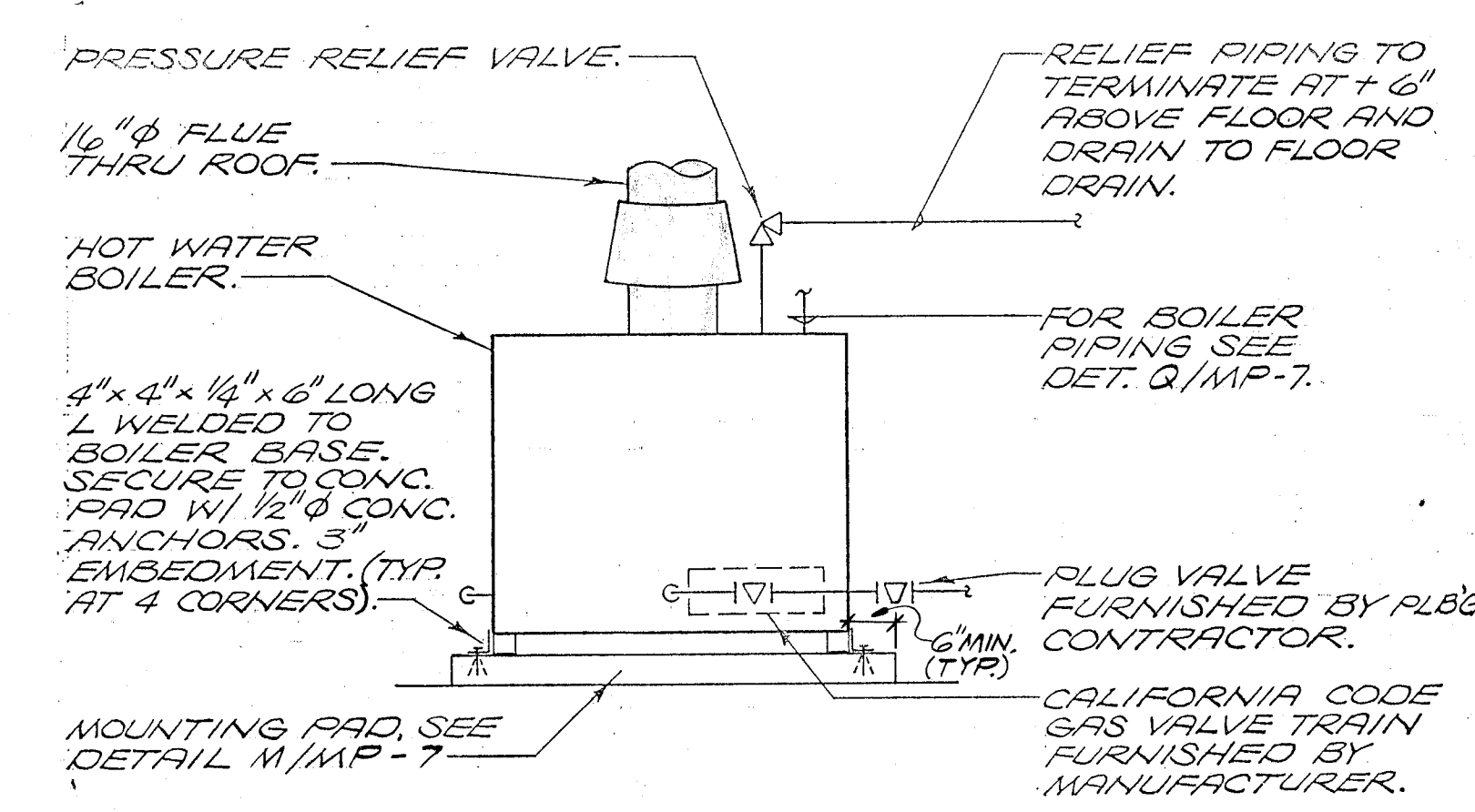
BRINE CHILLER MTG. & PIPING DETAIL
SCALE: NONE

A
MP-7



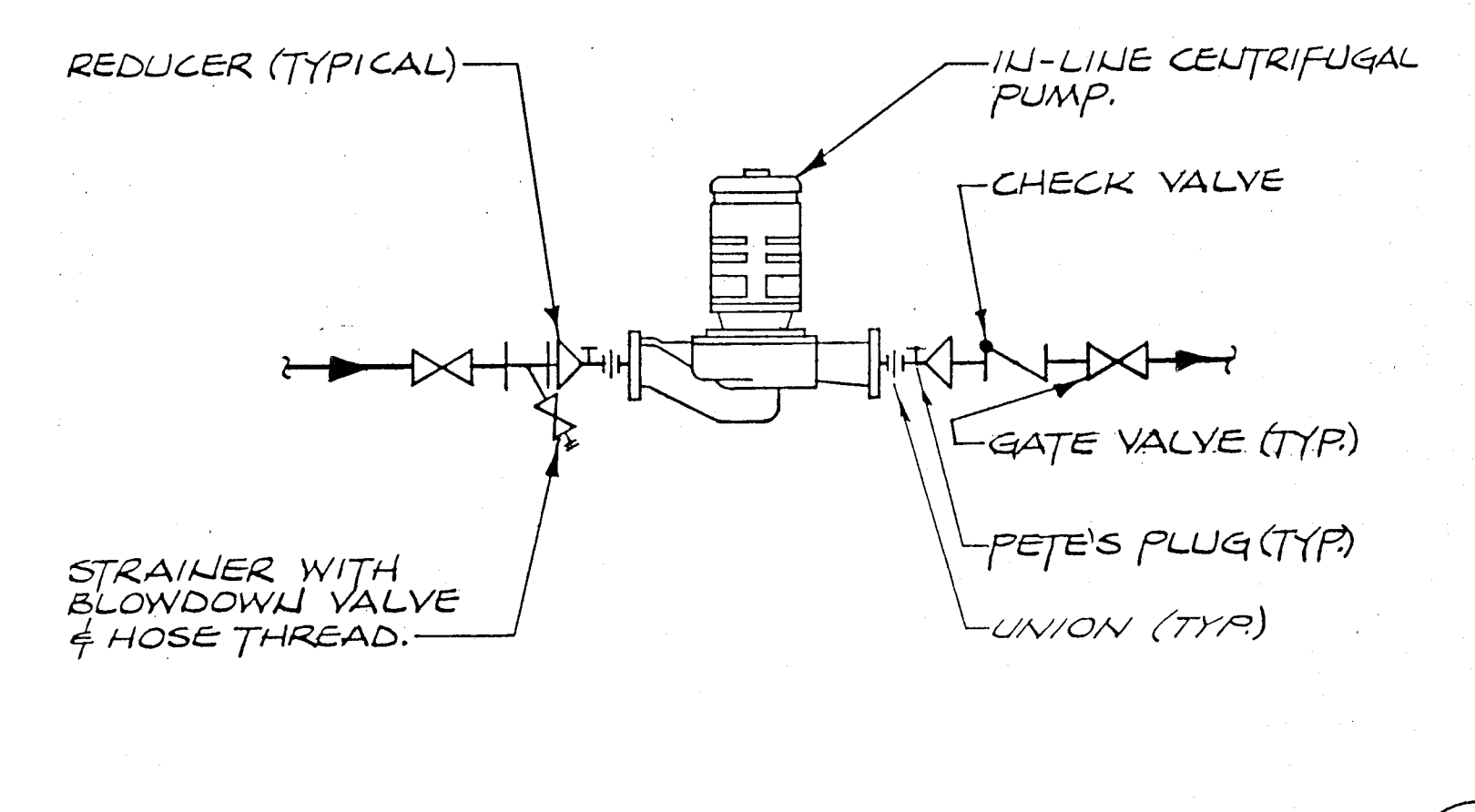
PIPE COVER DETAIL
SCALE: NONE

B
MP-7



BOILER MOUNTING DETAIL
SCALE: NONE

C
MP-7



IN LINE PUMP PIPING
SCALE: NONE

D
MP-7

approved

DATE

DATE

Donald R. Lawrence & Associates
CONSULTING MECHANICAL ENGINEERS, INCORPORATED
1300 W. Shaw Avenue, Suite 2B Fresno, CA 93711
CPR 22-0101 ME1004 FAX 509-224-9327

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C-3132
C-6564
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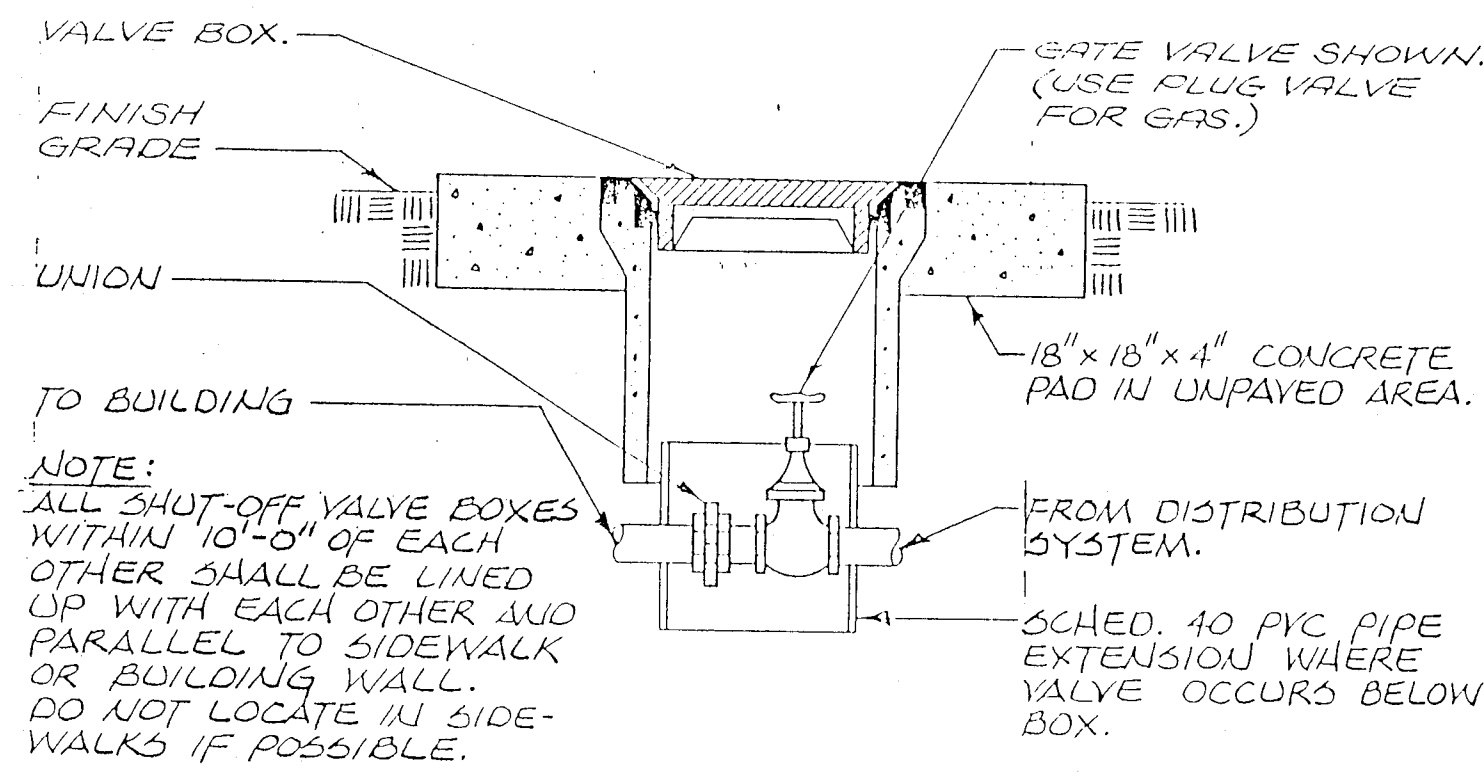
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DETAILS
HORACE MANN MODERNIZATION
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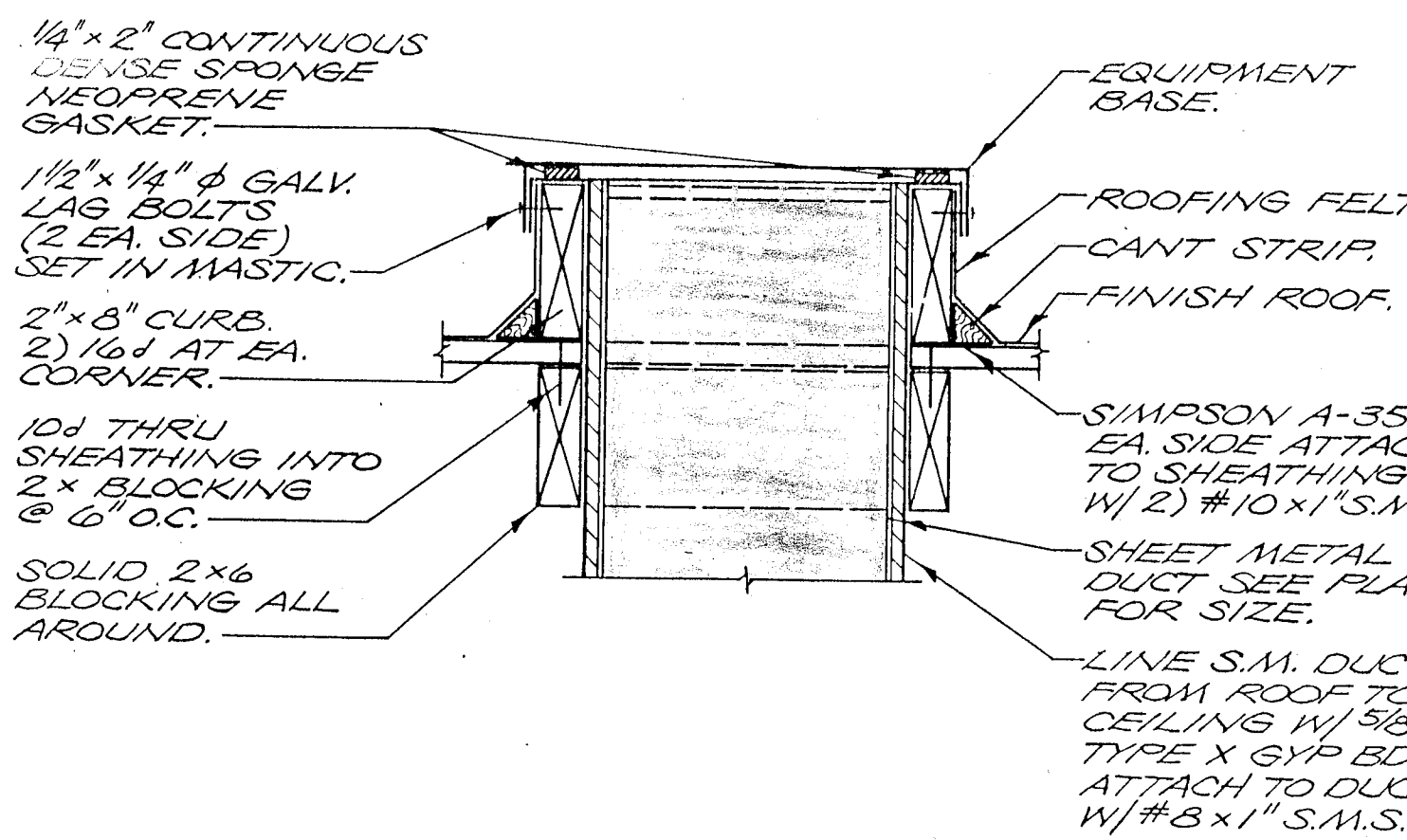
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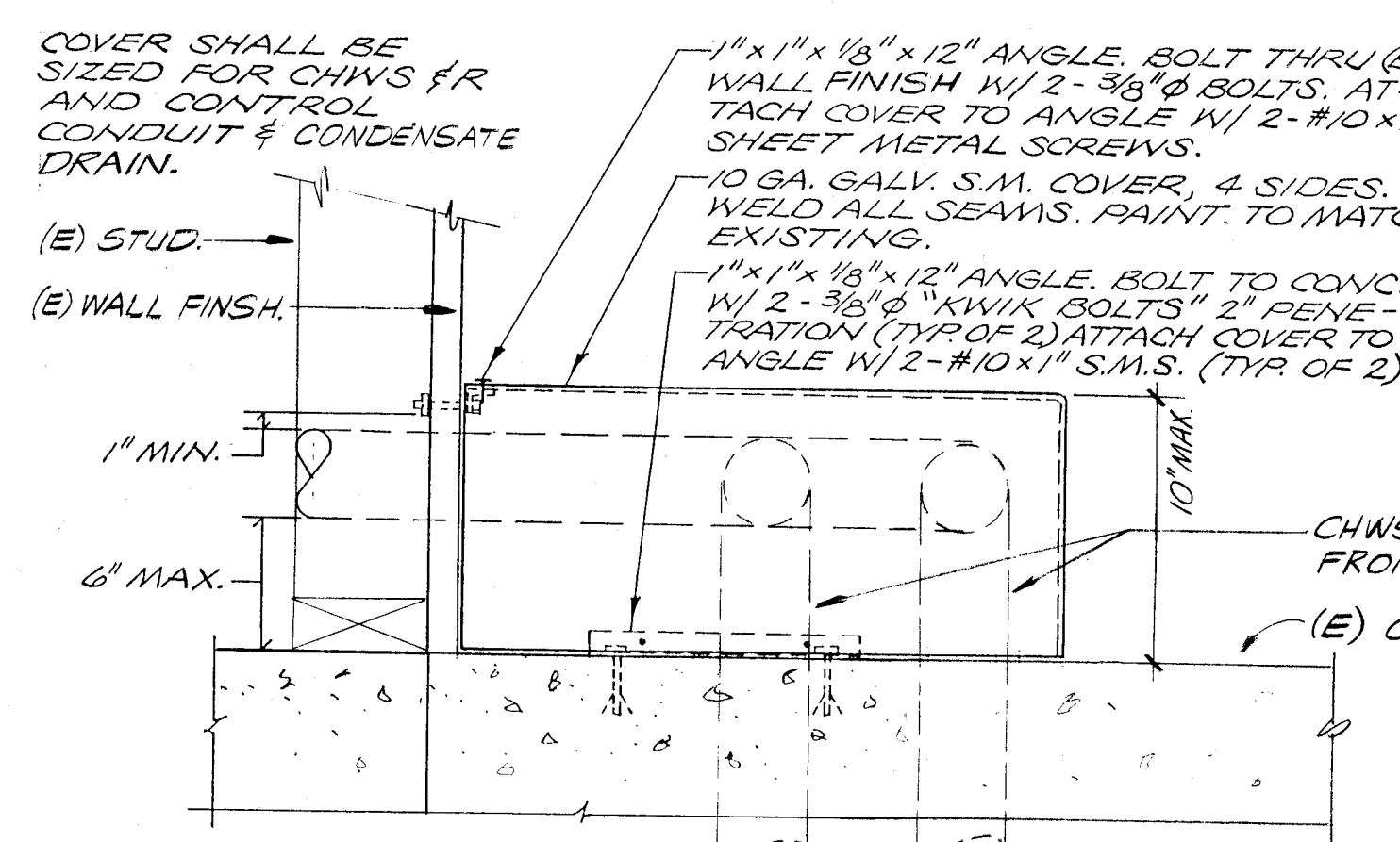
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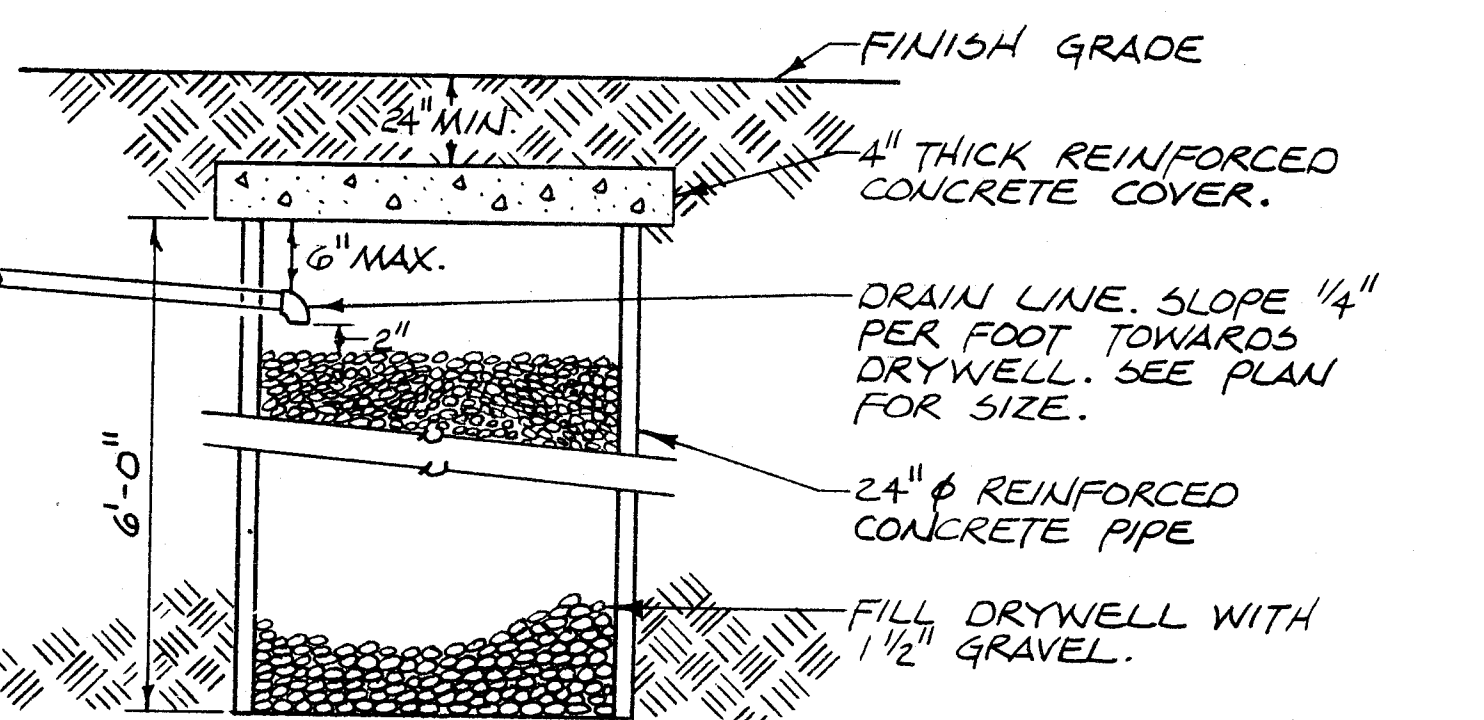
SHUT-OFF VALVE IN BOX DETAIL
SCALE: NONE



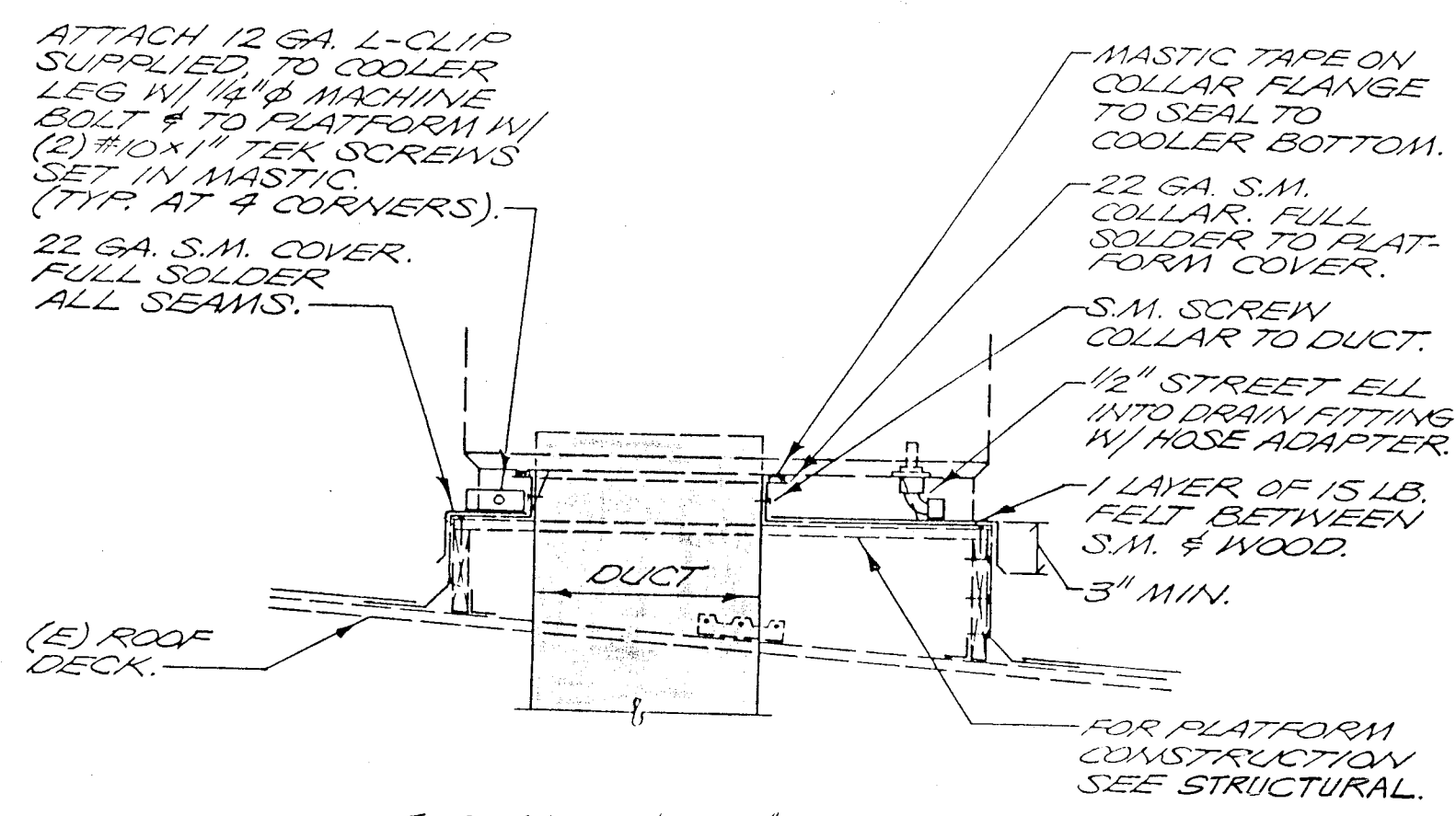
EQUIPMENT SUPPORT DETAIL
SCALE: NONE



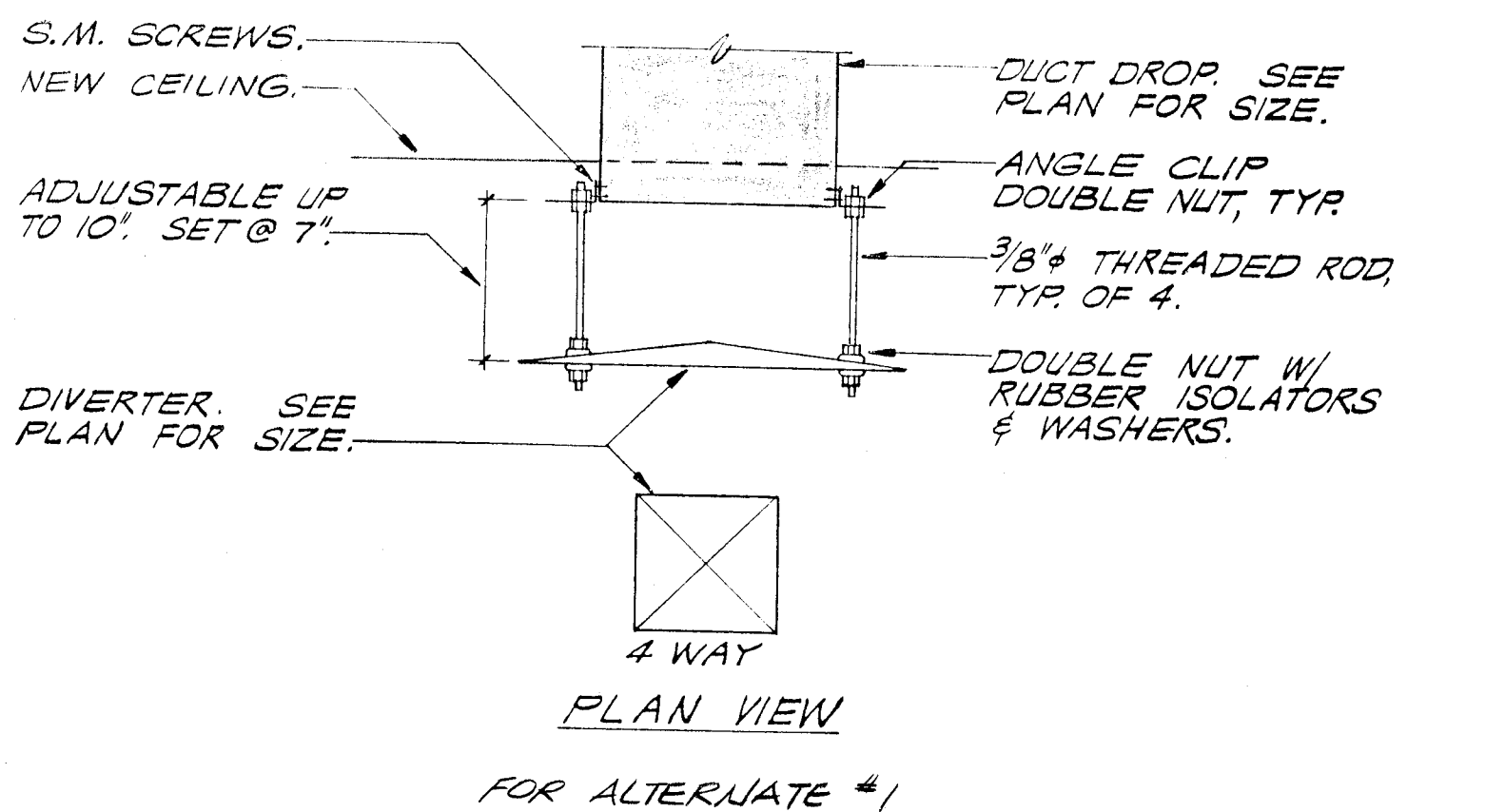
PIPING COVER DETAIL
SCALE: NONE



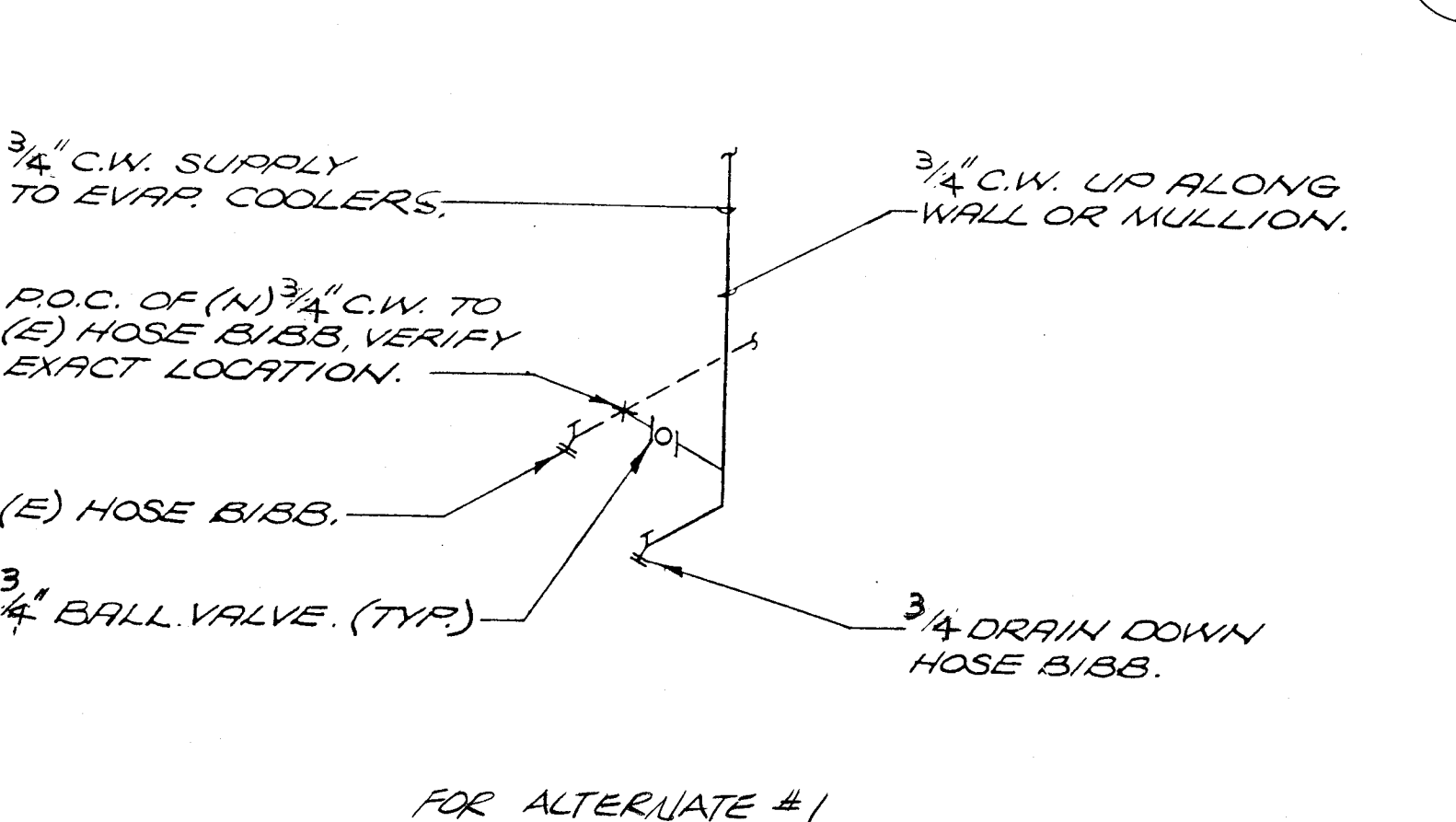
DRYWELL DETAIL
SCALE: NONE



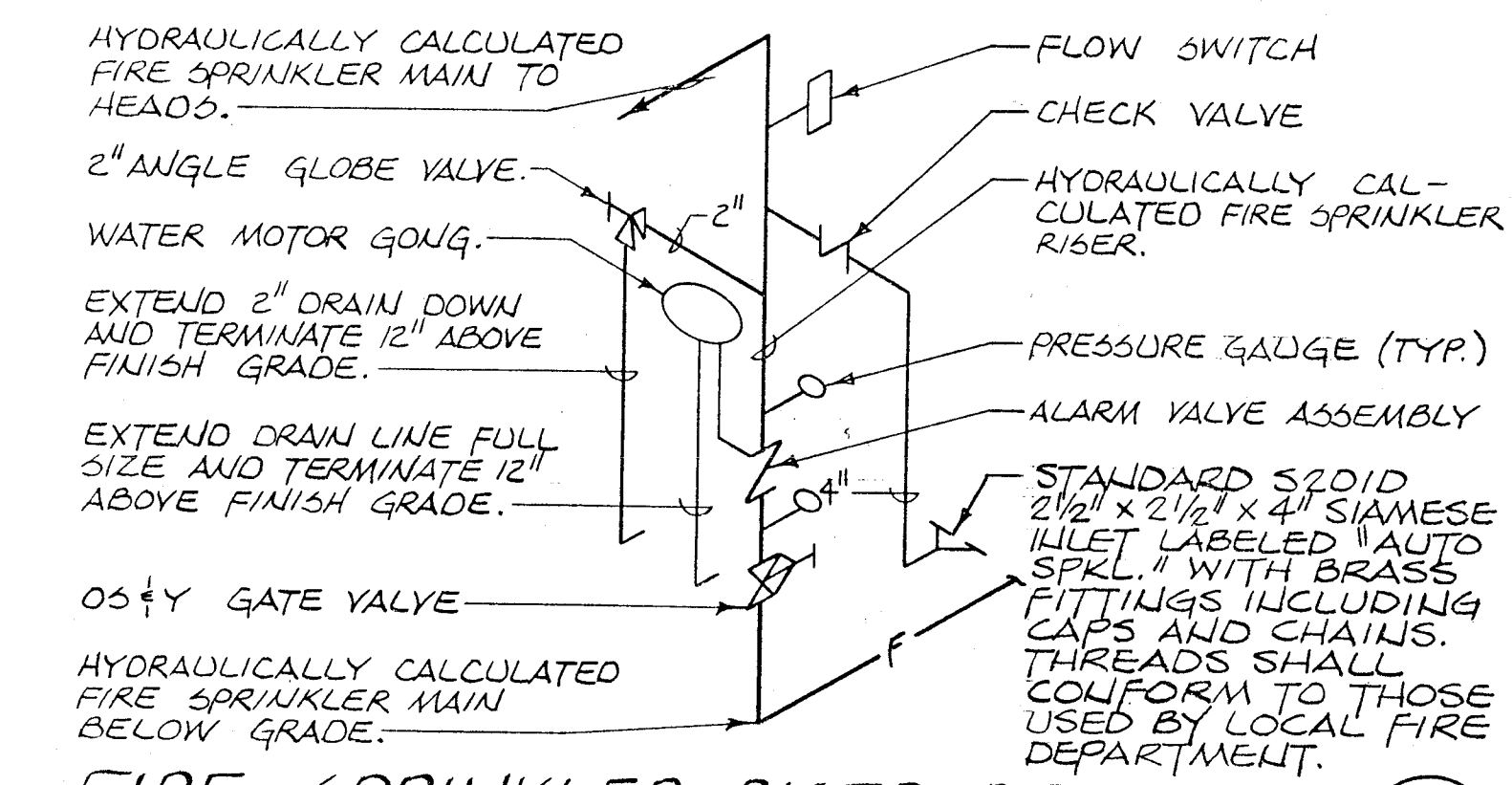
EVAP. COOLER PLATFORM DETAIL
SCALE: NONE



EVAP. COOLER DIVERTER INSTALLATION
SCALE: NONE

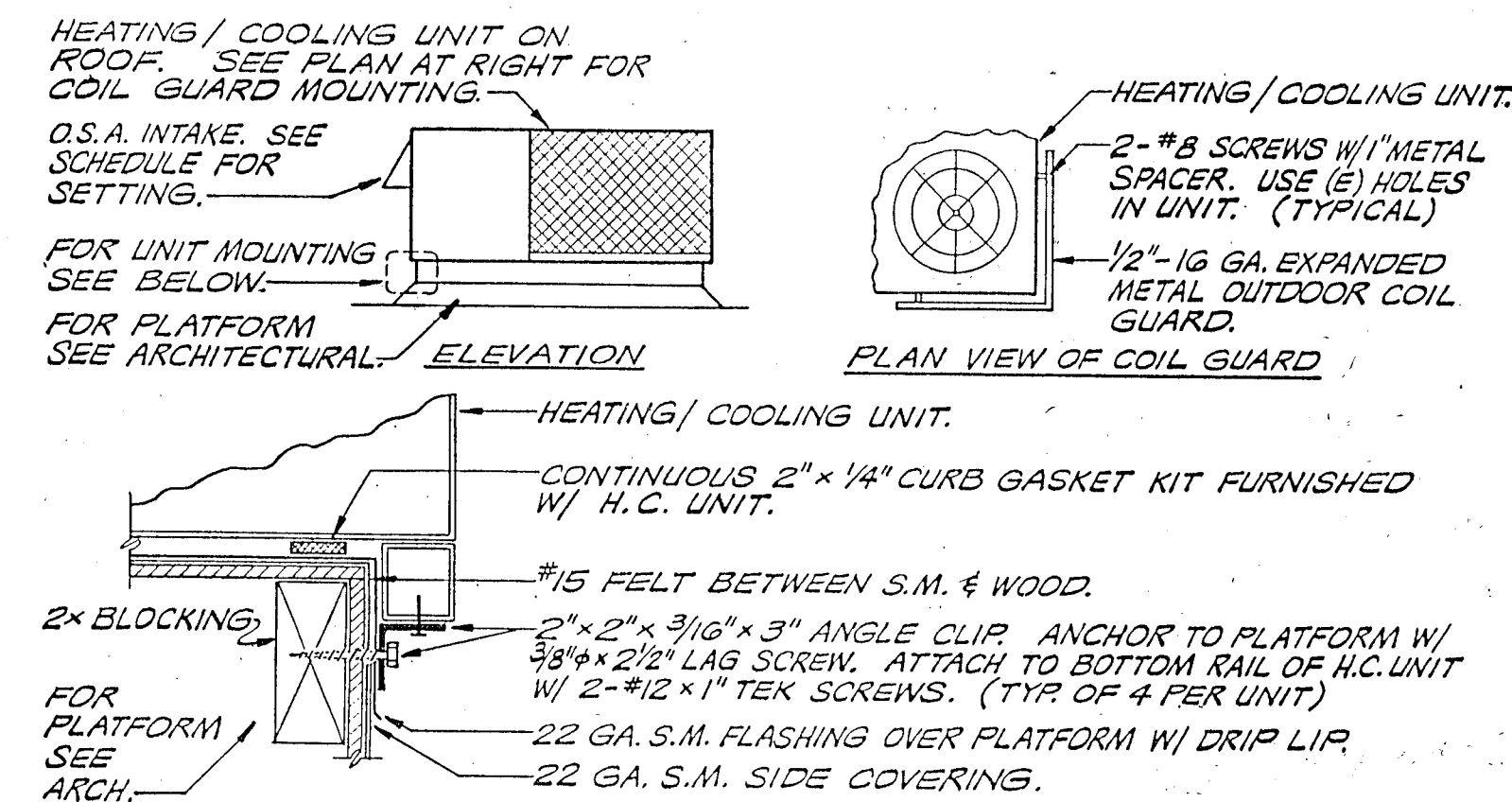


DRAIN DOWN DETAIL
SCALE: NONE

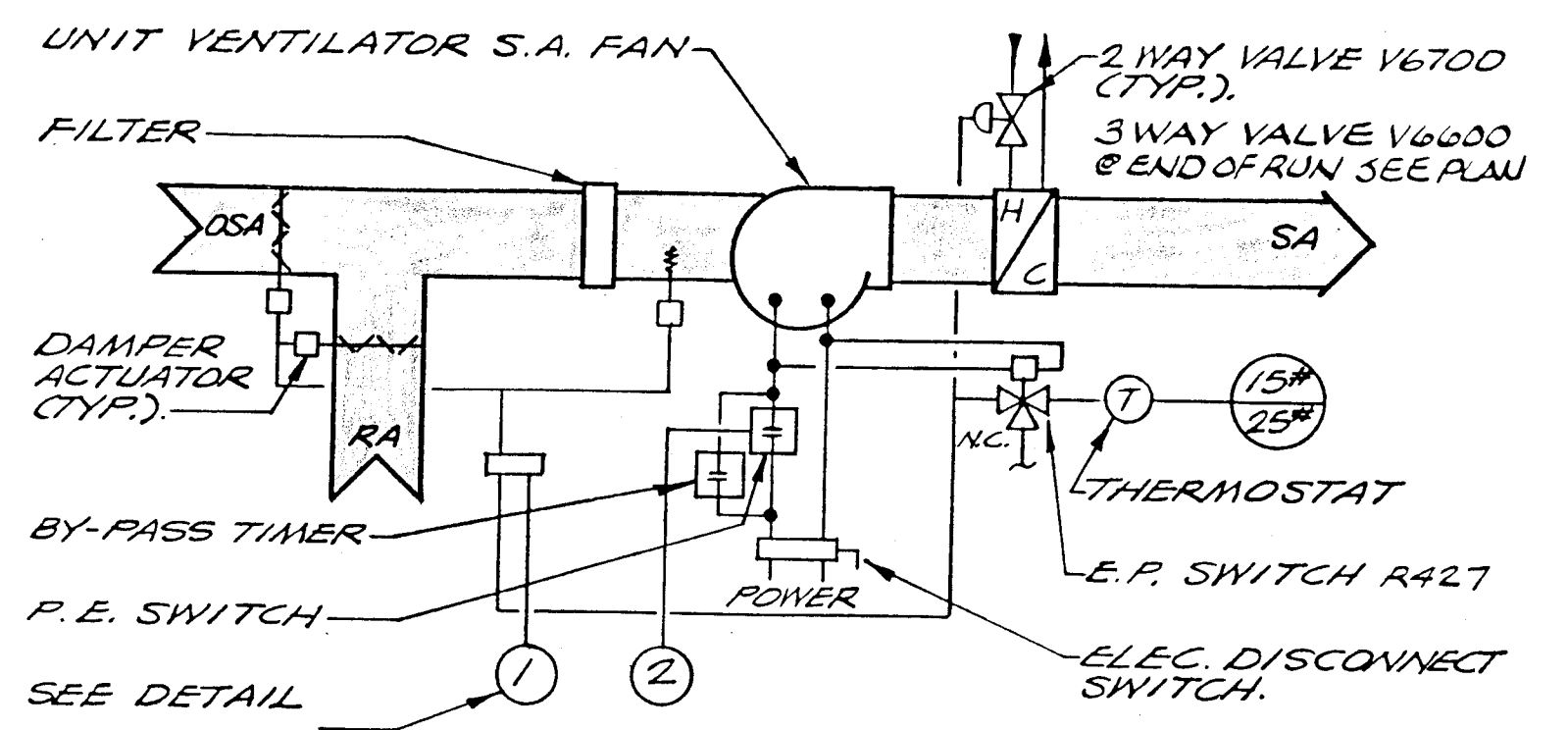


FIRE SPRINKLER RISER DETAIL
SCALE: NONE

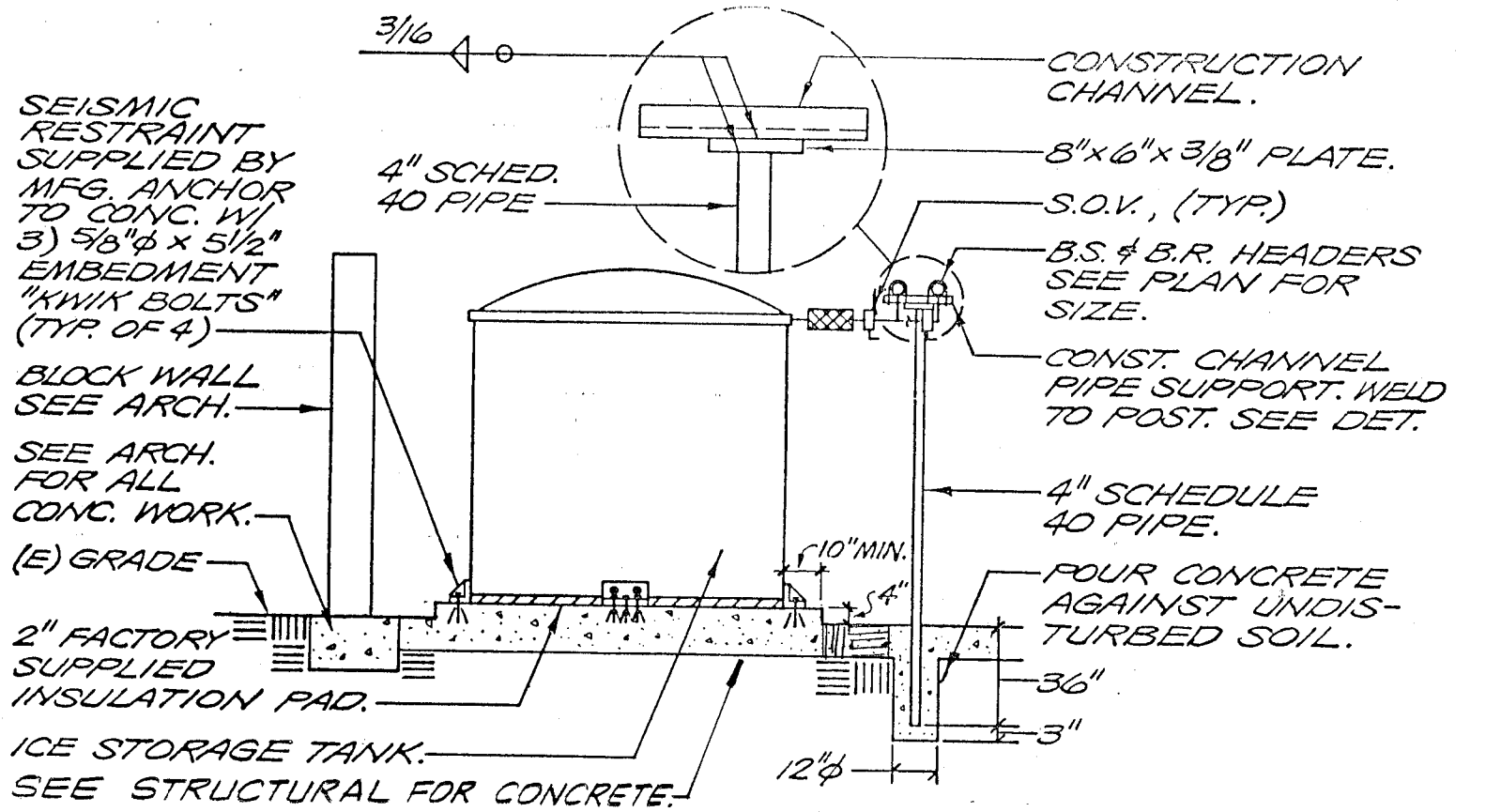
NOTE: LOCATION OF FIRE DEPT. CONNECTION SHALL BE APPROVED BY LOCAL FIRE AUTHORITY PRIOR TO BID; IT MAY NOT NECESSARILY BE LOCATED AT THE RISER.



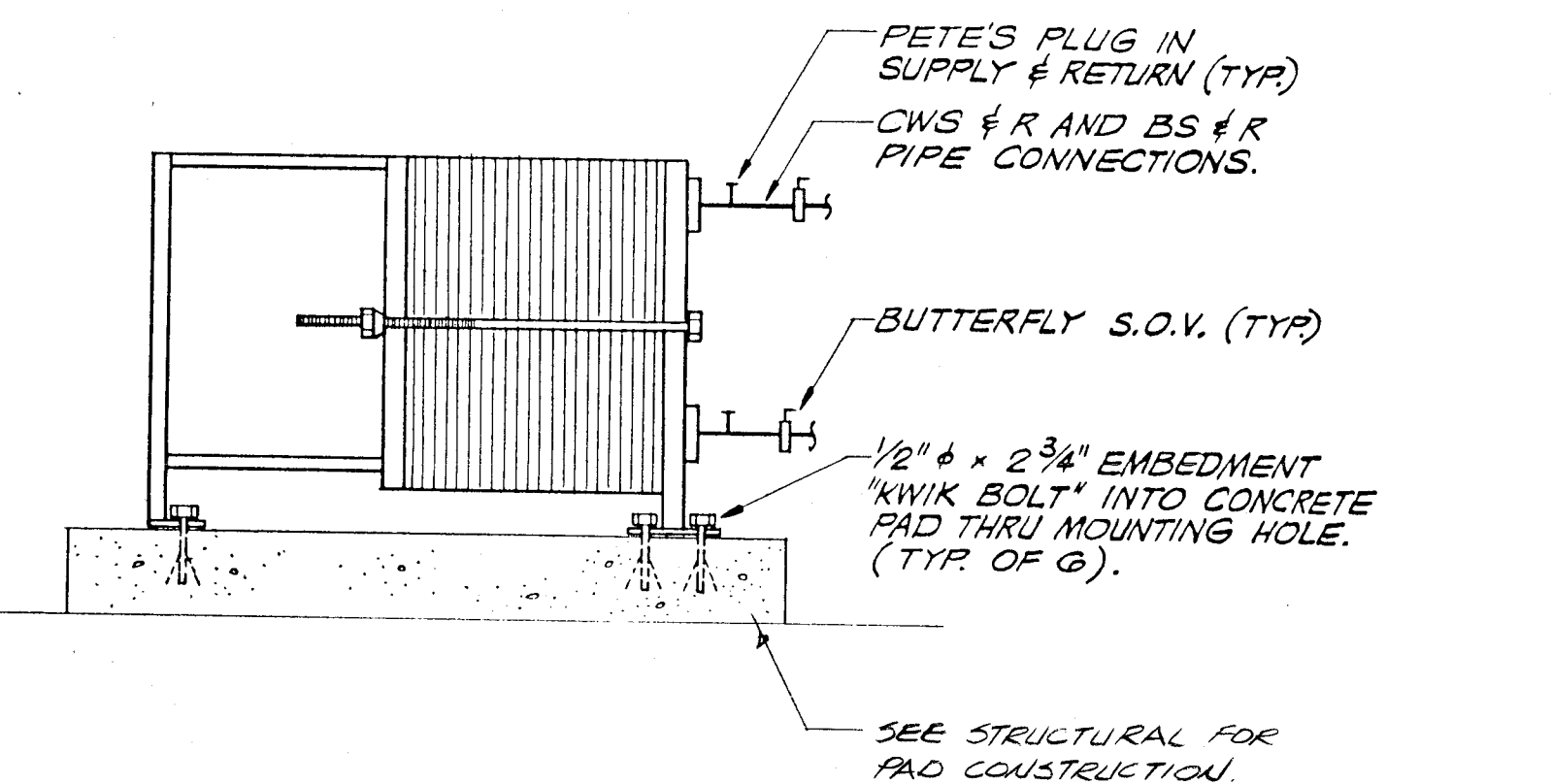
SECTION AT HC UNIT ON ROOF
SCALE: NONE



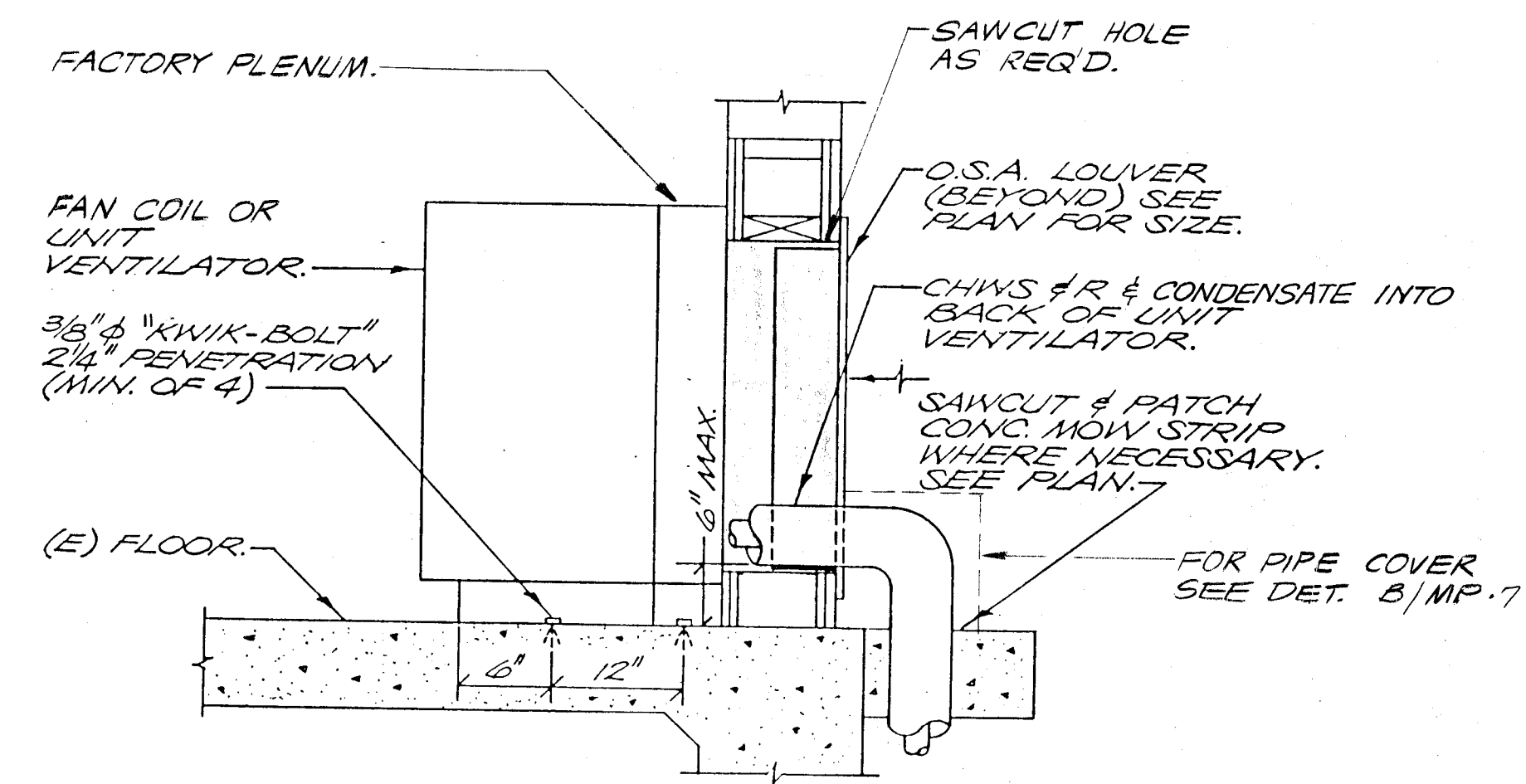
UNIT VENTILATOR CONTROL
SCALE: NONE



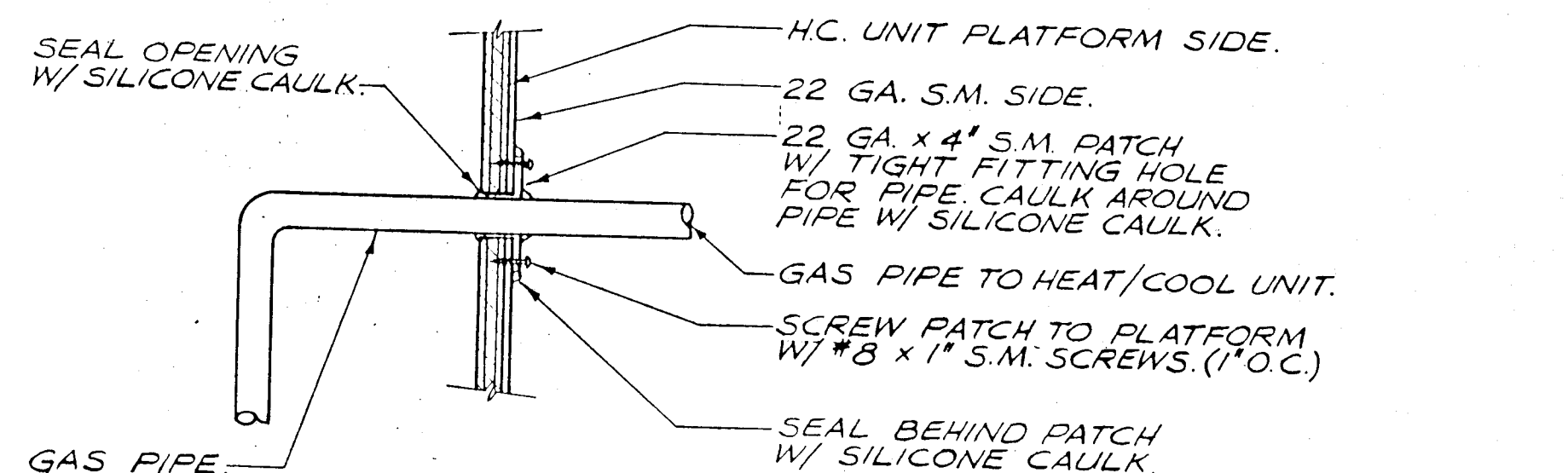
ICE STORAGE TANK DETAIL
SCALE: NONE



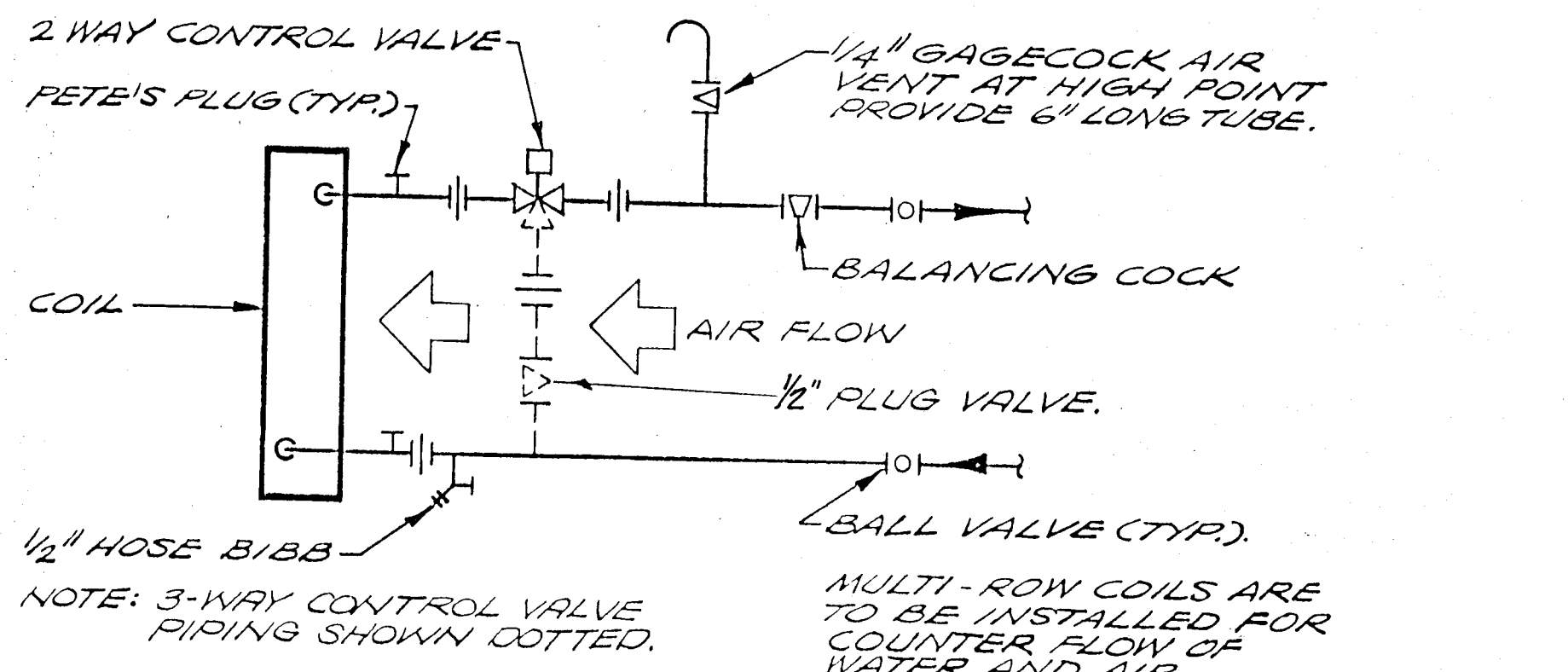
HEAT EXCHANGER MOUNTING DETAIL
SCALE: NONE



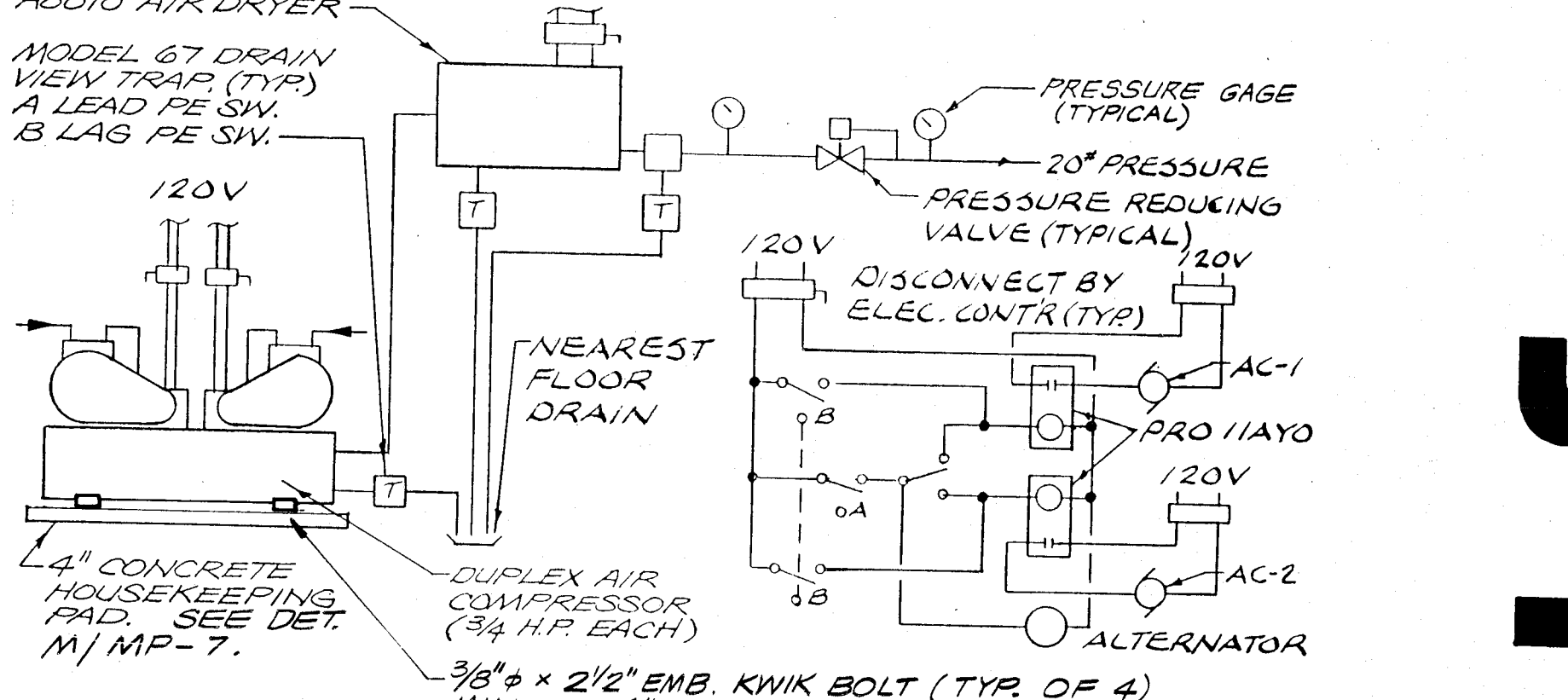
SECTION AT UNIT VENTILATOR (FAN COIL SIMILAR)
SCALE: NONE



GAS PIPE PLATFORM PENETRATION
SCALE: NONE



COIL PIPING DETAIL
SCALE: NONE



CONTROL AIR COMPRESSOR
SCALE: NONE

approved

DATE

DATE

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CONSULTING MECHANICAL ENGINEERS, INCORPORATED
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Bakersfield, CA 93311
TEL: 805-338-0101 FAX: 805-338-0102

DATE

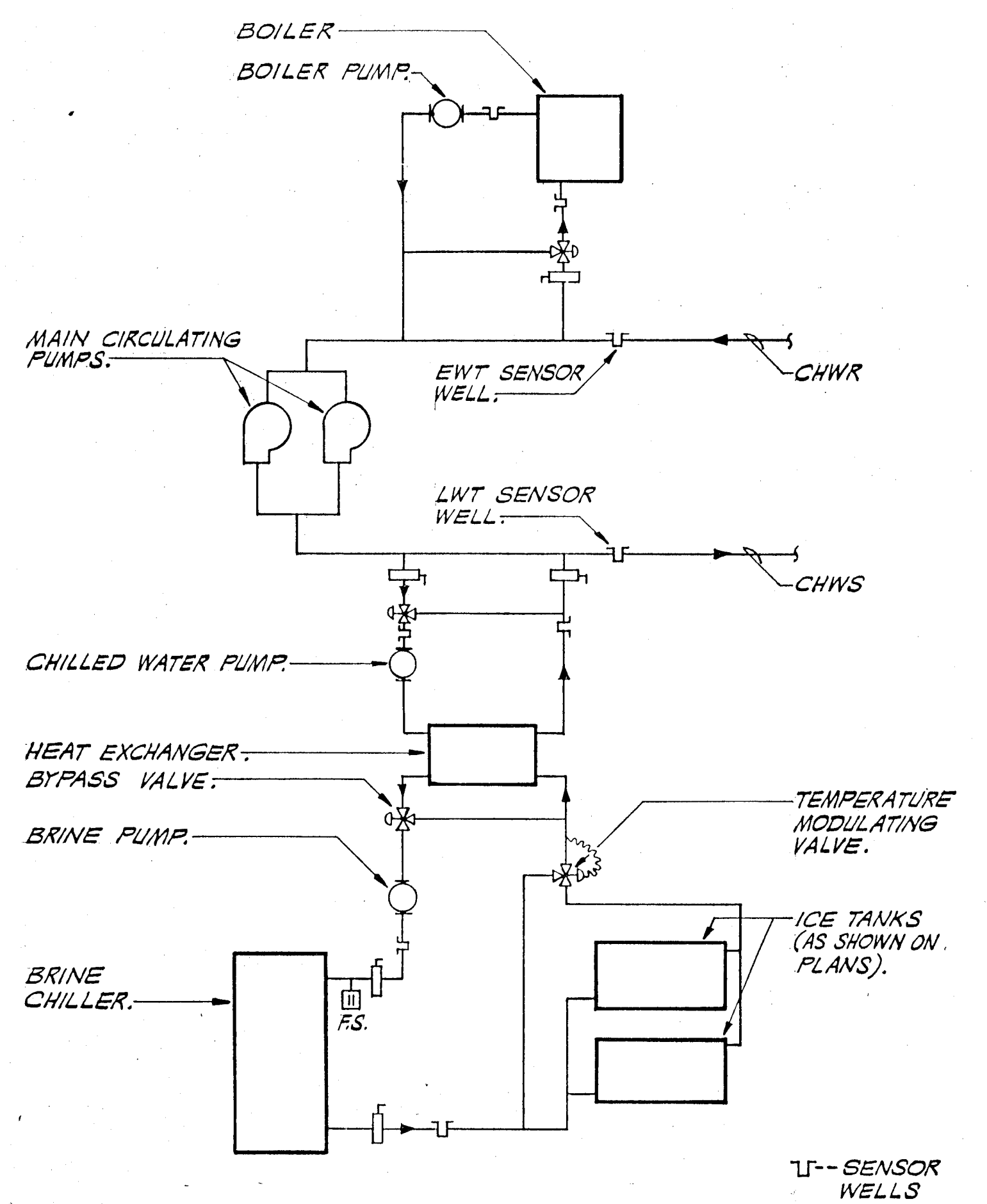
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CENTRAL PLANT PIPING SCHEMATIC
SCALE: NONE

DESIGNATION	EC 1A - EC 1D
CFM	3811
E S P (IN WC)	.3
FAN HP	3/4
FAN VOLTS/PHASE	115/1
PUMP HP	1/20
PUMP VOLTS/PHASE	115/1
MANUFACTURER	TRADEWINDS
TYPE	DOWN DRAFT
MODEL NUMBER	TC 371-411/421
LOCATION	MULTI-USE
OPER WT (LBS)	295
ACCESSORIES	B.D.D.

DESIGNATION	ISE 1
NAME PLATE AMPS	2.2
VOLTS/PHASE	115/1
PUMP HP	1/6
BTU RATING	110,500
GPM/PD (FT)	24 / 2.4
EWT/LWT (°F)	130 / 139.2
TR (°F)	9.2
FLUE DIA/EXIT TEMP	16 / 250
MANUFACTURER	THERMASTAK
TYPE	
MODEL NUMBER	MK-II
LOCATION	MECHANICAL ROOM
OPER WT (LBS)	180
ACCESSORIES	SEE SPECS

DESIGNATION	AC 1
NAMEPLATE AMPS	16.8
VOLTS/PHASE	208-230/1
SEER AT ARI	9.5
CFM	1000
DUCT SP (IN WC)	.4
MIN OSA (CFM)	100
HP/SPEED	13/3
DRIVE	DIRECT
MAX FUSE SIZE	30
SENSIBLE (MBH)	21.9
TOTAL (MBH)	23.6
EADB/EAWB (°F)	80/64
AMB AIR (°F)	105
INPUT (MBH)	40.0
OUTPUT (MBH)	32.0
FUEL	NATURAL GAS
QUANTITY/SIZE	1) 25" x 20" x 2'
TYPE	FARR 30/30
PD (IN WC)	0.2
MANUFACTURER	PAYNE
TYPE	GAS/ELECTRIC
MODEL NUMBER	580AN030040
LOCATION	MUSIC/VIDEO STORAGE
OPER WT (LBS)	470
ACCESSORIES	1

1) 100% AIR ENTHALPY ECONOMIZER FILTER RACK FOR 2' FILTERS.

DESIGNATION	FC 1A - FC 1D
CFM	400
ESP (IN WC)	-
MIN OSA	25
HP	
VOLTS/PHASE	115/1
MOTOR TYPE	PSC
SENSIBLE (MBH)	8.8
TOTAL (MBH)	11.6
EADB/EAWB (°F)	80/67
GPM/P D (FT)	2.4 / 9.5
EMT (°F)	45
BRANCH SIZE	3/4"
VALVE TYPE	2-WAY
CAPACITY (MBH)	12.0
GPM/P D (FT)	2.4
EWT/EAT (°F)	120 / 64
BRANCH SIZE	3/4"
VALVE TYPE	2-WAY
QUANTITY/SIZE	1) 8" x 26" x 1"
TYPE	DISPOSABLE
P D (IN WC)	-
MANUFACTURER	M'QUAY
TYPE	FLOOR MOUNT
MODEL NO.	TSP 041D
LOCATION	BUILDING 500
OPER. WT. (LBS)	105
ACCESSORIES	O.S.A. OPERATING W/ DAMPER

DESIGNATION	EF 1A - EF 1D
CFM	220
ESP (IN WC)	.125
HP/WATTS	- / 105
VOLTS/PHASE	115/1
RPM	1050
TIP SPEEDS/SONES	- / 2.5
DRIVE	DIRECT
MOUNTING	CEILING
MANUFACTURER	PENN
TYPE	ZEPHYR
MODEL NUMBER	Z-8
CONTROL	INTERLOCK W/ LIGHTS
LOCATION	TOILET ROOMS
OPER WT (LBS)	22
ACCESSORIES	B.D.D.

MARK	DUTY	DESCRIPTION
A	CEILING SUPPLY	TITUS TDC-3 LOUVER FACE SQUARE OR RECTANGULAR NECK DIFFUSER FOR STD. LAY-IN CEILING, WITH O.B.D., FLAT BLACK INTERIOR, AND NO. 25 OFF-WHITE FINISH.
B	CEILING RETURN OR EXHAUST	TITUS PAR (TYPE F3) PERFORATED FACE SQUARE OR RECTANGULAR NECK REGISTER FOR STD LAY-IN CEILING, WITH O.B.D., FLAT BLACK INTERIOR AND NO. 25 OFF-WHITE FINISH.
C	WALL RETURN	TITUS CORE 25-RL5 STEEL RETURN REGISTER, WITH O.B.D. AND NO. 25 OFF-WHITE FINISH.
D	RELIEF GRILLE	TITUS CORE 23-RL STEEL GRILLE, NO. 25 OFF-WHITE FINISH.
E	LOUVER	SHOP FABRICATED OF 20 GA. GALVANIZED SHEET METAL WITH 1/2" MESH SCREEN ON INSIDE FACE, 50% FREE AREA, PRIME FOR PAINT.

DESIGNATION	HX 1
GPM (BRINE)	268
EBT/LBT (°F)	40 / 49.5
PD (FT WATER)	4.6
CAPACITY (MBH)	1,152
GPM (WATER)	230
EWT/LWT (°F)	54 / 44
PD (FT WATER)	3.2
NUMBER OF PLATES	197
TYPE	PLATE & FRAME
MANUFACTURER	BELL & GOSSETT
MODEL NUMBER	GPX - 258
LOCATION	CHILLER YARD
OPER WT (LBS)	1500
ACCESSORIES	SEE SPECS.

DESIGNATION	UV 1
CFM	1500
MIN OSA (CFM)	200
AMPS / H.P.	4.1 / 1/6
VOLTS/PHASE	115 / 1
TYPE	-
SENSIBLE (MBH)	41.1
TOTAL (MBH)	47.1
EADB/EAWB (°F)	80 / 64
GPM/P D (FT)	12 / 13.2
EMT (°F)	45
PIPE SIZE	1"
VALVE TYPE	2-WAY *
TYPE	-
HEATING CAP (MBH)	47.0
EADB (°F)	64
GPM/P D (FT)	12 / 13.2
EMT (°F)	120
PIPE SIZE	1"
VALVE TYPE	2-WAY *
QUANTITY/SIZE	2) 7 1/2" x 9 1/4" 1"
TYPE	DISPOSABLE
MANUFACTURER	MSI
MODEL NO.	TB05 / 500
OPER. WT (LBS)	700
ACCESSORIES	SEE SPECS.

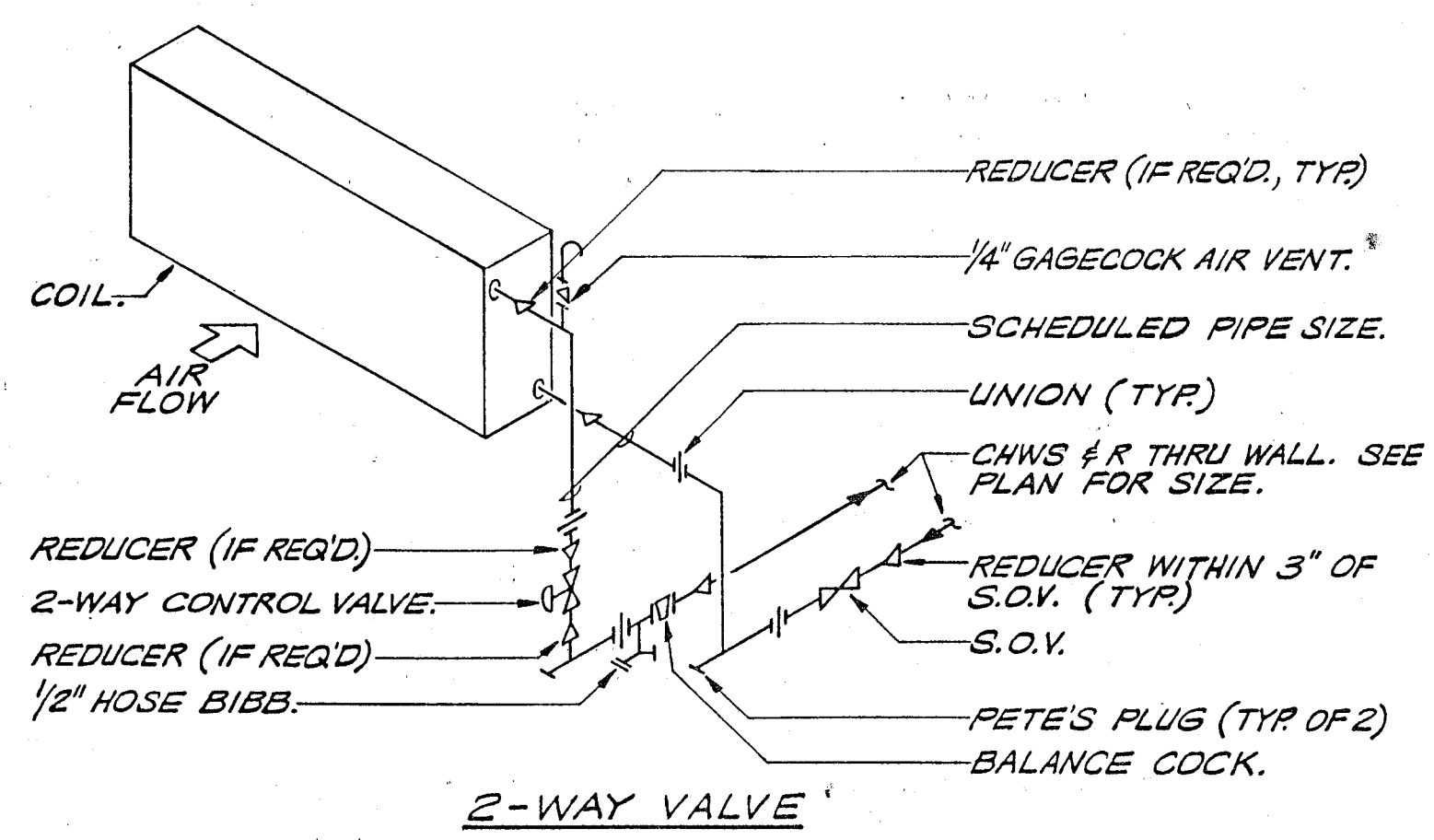
* 3-WAY VALVE ON END UNIT OF EACH RUN.

DESIGNATION	P 1	P 2	P 3A - P 3B	P 4
HP	1	5	5	10
VOLTS/PHASE	460/3	460/3	460/3	460/3
RPM	1750	1750	1750	1750
GPM/TDH (FT)	60/22	230/45	167/37	268/74
EFFICIENCY (%)	56	69	71	73
MANUFACTURER	BELL & GOSSETT			
TYPE	IN-LINE	IN-LINE	BASE MTD.	IN-LINE
MODEL NUMBER	SERIES 60 2A	SERIES 80 3-3 1/2 B	SERIES 81 2 1/2 BB	SERIES 80 3-3 1/2 B
LOCATION	MECH ROOM	CHILLER YARD	MECH ROOM	CHILLER YARD
OPER WT (LBS)	78	225	245	380
ACCESSORIES	SEE SPECS.	FACTORY BASE	SUCTION DIFFUSER	FACTORY BASE

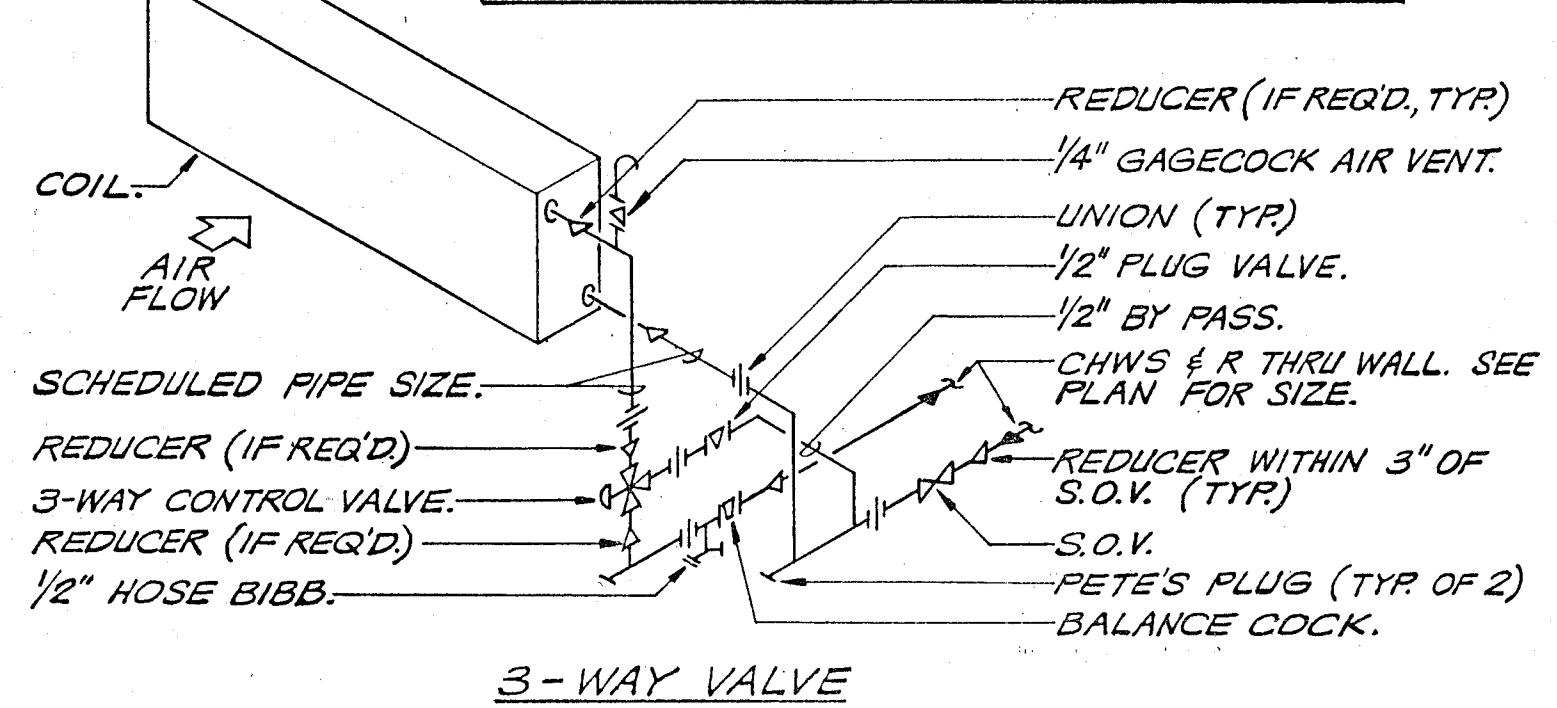
DESIGNATION	B 1
NAME PLATE AMPS	-
VOLTS/PHASE	115/1
INPUT (MBH)	1500
OUTPUT (MBH)	1200
GPM/P D (FT)	60/3
EWT/LWT (°F)	130/170
FUEL	NATURAL GAS
MANUFACTURER	AJAX
TYPE	WATER TUBE
MODEL NUMBER	W6-1500
LOCATION	MECHANICAL ROOM
OPER WT (LBS)	3150
ACCESSORIES	SEE SPECS.

DESIGNATION	BC 1	
MODE	ICE MAKING	CHILLER
CAPACITY (TONS)	63.2	76.9
UNIT FLA	182	
VOLTS/PHASE	460/3	
EER	9.4	9.7
MAX FUSE	250	
QUANTITY	2	
RLA (EACH)	33	
COMP MOTOR OPER KW (UNIT)	80.8	95.9
GPM/PD (FT)	268 / 14.7	
EBT/LBT (°F)	32/26	46.9/40
SCALE FACTOR	.0005	
AMBIENT AIR (°F)	85	95
MANUFACTURER	M'QUAY	
TYPE	AIR COOLED	
MODEL	ALR 085C	
OPER WT (LBS)	6100	
ACCESSORIES	SEE SPECS.	

DESIGNATION	IT 1A - IT 1F
AVAIL STORAGE (TON-HR) @ 40° LBT DESIGN COND	134
FLOW RATE (GPM)	44.7
HEAD (FT WG.)	12.7
AVG LOAD DRAW (TONS)	13.9
PEAK LOAD DRAW (TONS)	16.0
TIME OF DRAW (HRS)	8
CHARGE RATE (TONS)	10.5
CHARGE TIME (HRS)	11.0
PIPE CONNECTION (IN.)	2 1/2
MANUFACTURER	CALMAC
MODEL	1190
WT FILLED (LBS)	16,750
ACCESSORIES	SEE SPECS.



NOTE: CONTRACTOR TO PIPE ONE OF EACH ASSEMBLY FOR ENGINEERS' REVIEW.



UNIT VENTILATOR PIPING DETAIL
SCALE: NONE

approved

DATE

DATE

Donald R. Lawrence & Associates
CONSULTING MECHANICAL ENGINEERS, INCORPORATED
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(209) 256-0011 ME11064 FAX 209-224-4327

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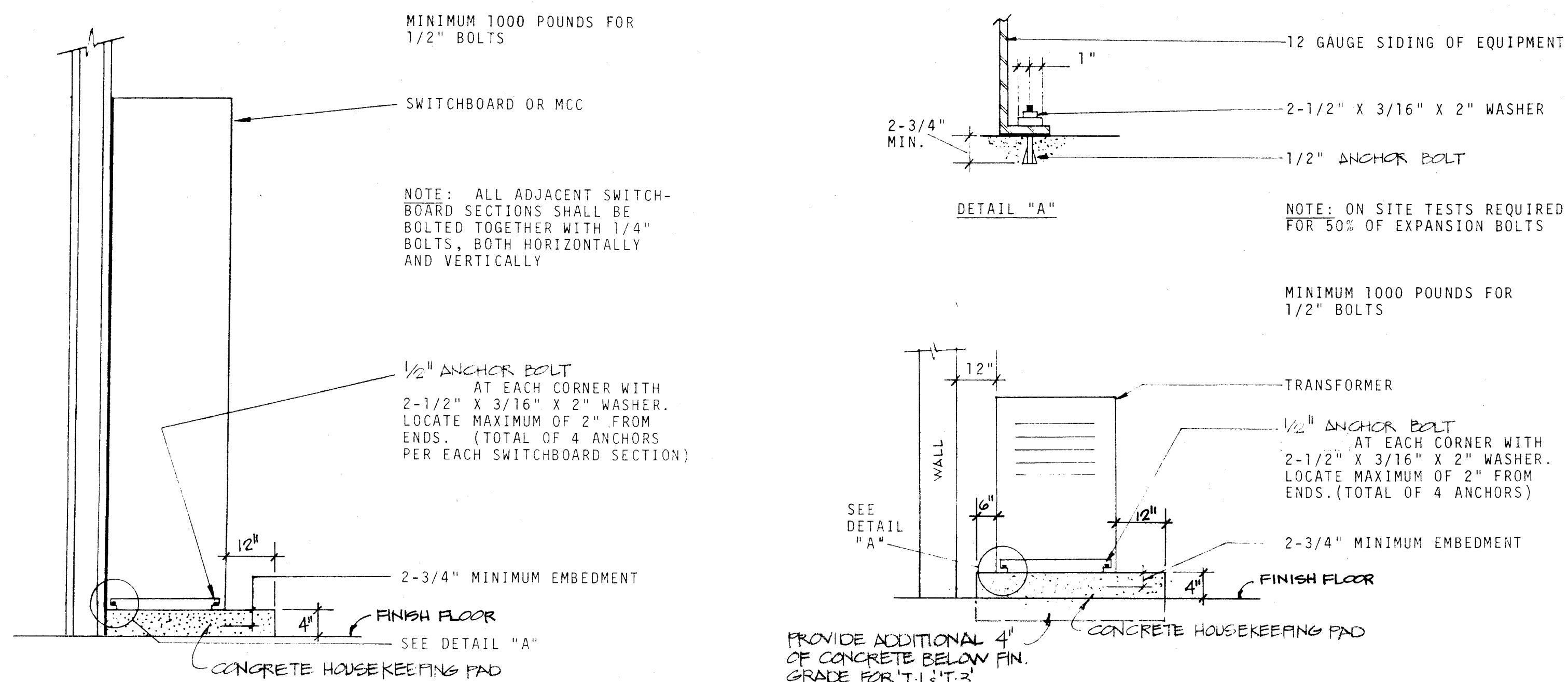
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SCHEDULES
HORACE MANN MODERNIZATION
BAKERSFIELD CITY SCHOOL DISTRICT
2710 NILES AVENUE
BAKERSFIELD, CALIFORNIA 93307

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date 1 FEB 89
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TRANSFORMER & SWITCHBOARD MTG. DETAIL

N.T.S.

(BOLTS MUST HAVE I.C.B.O. APPROVAL)

ALL CONCRETE ANCHOR BOLTS OF THE EXPANSION TYPE (LOADED IN EITHER PULL-OUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT) PROOF TESTED IN TENSION TO TWICE THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED.

TYPE OF MATERIALS	TYPE OF TEST	BOLT DIAMETER	3/8"	1/2"	5/8"	3/4"
HARD ROCK CONCRETE	DIRECT PULL-TENSION, LBS.		1300	2000	2900	4300
	TORQUE WRENCH-TORQUE, FT. LBS.		25	50	110	150
LT. WT. CONCRETE	DIRECT PULL-TENSION, LBS.		970	1400	1950	2590
	TORQUE WRENCH-TORQUE, FT. LBS.		20	35	75	90

SCHOOLS EQUIPMENT ANCHORAGE

ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

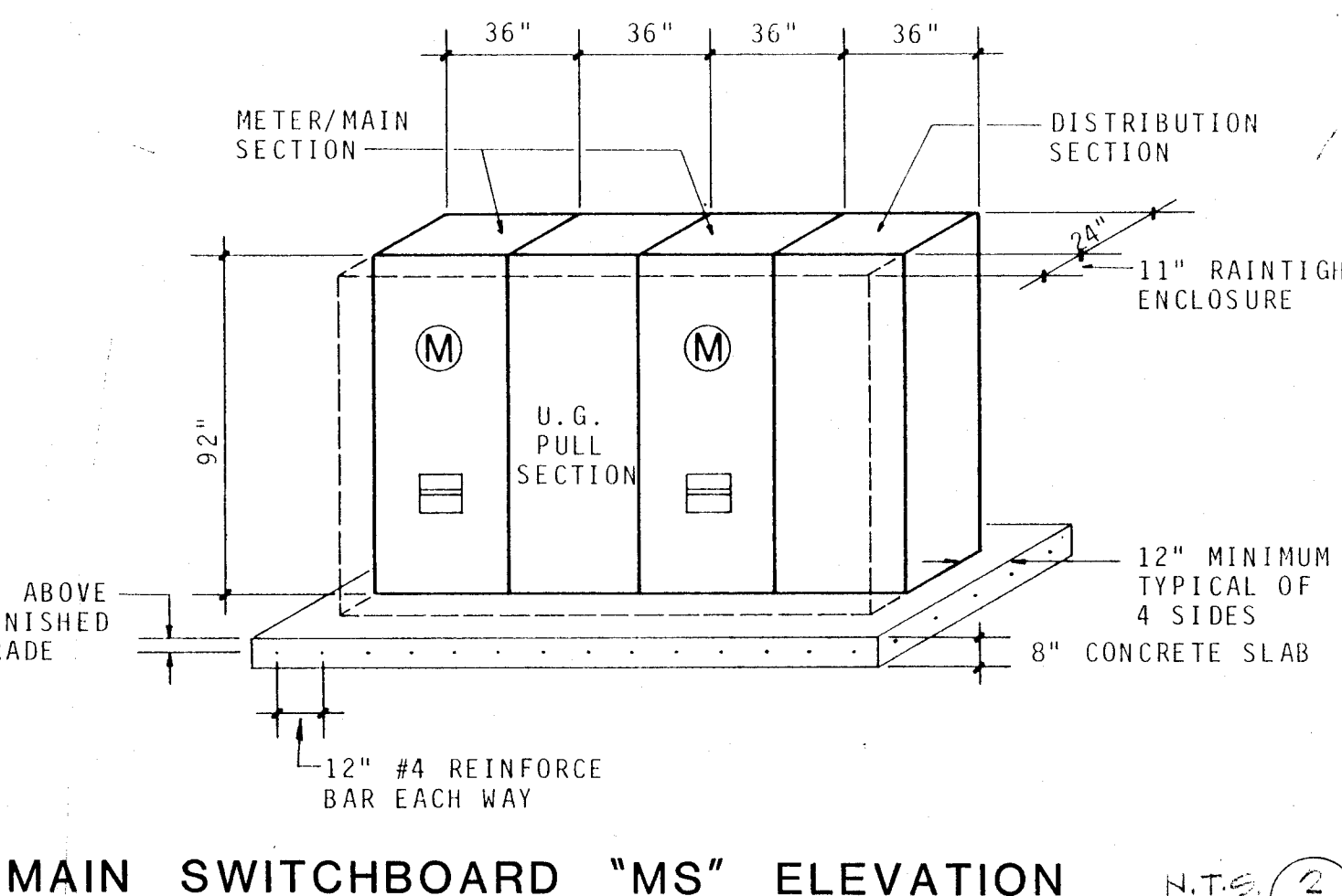
	BLDG. 100, 200, 300, 400, 500, 700	600
FIXED EQUIPMENT ON GRADE	22% OF OPERATING WEIGHT	27.50%
FIXED EQUIPMENT ON STRUCTURE	33% OF OPERATING WEIGHT	41.25%
EMERGENCY POWER EQUIPMENT ON GRADE	33% OF OPERATING WEIGHT	41.25%
EMERGENCY POWER EQUIPMENT ON STRUCTURE	50% OF OPERATING WEIGHT	67.50%

FOR FLEXIBLY MOUNTED EQUIPMENT USE 2 X THE ABOVE VALUES. SIMULTANEOUS VERTICAL FORCE - USE 1/3 X HORIZONTAL FORCE.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS FOR EQUIPMENT 500 POUNDS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL AND ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT.

FIRE DETECTION SYSTEM NOTES:

- ALL WIRING IS SHOWN DIAGRAMMATICALLY. CONTRACTOR MAY VARY SEQUENCE OR CIRCUITRY, HOWEVER ALL CIRCUITS SHALL BE CONTINUOUS AND SUPERVISED FROM DEVICE TO DEVICE OR FAT TO DEVICE OR FCP TO FAT OR FAT TO FAT. NO PARALLEL BRANCHING SHALL BE ALLOWED. ANY CONNECTION OF ANY BREAK IN ANY CONDUCTOR SHALL BE BY TERMINAL CONNECTION AT A DEVICE OR AT A FAT ONLY.
- ALL CONNECTIONS SHALL BE PROPERLY LABELED BY CONDUCTOR AND SHALL HAVE STAKEON LUG CONNECTORS.
- FA TERMINAL CABINETS SHALL HAVE SUFFICIENT SPACE, TERMINAL BOARDS AND SCREW TERMINAL CONNECTORS TO ALLOW CONNECTION OF ALL CONDUCTORS SHOWN. CONTRACTOR SHALL BE REQUIRED TO SUBMIT WITH HIS OTHER SHOP DRAWINGS, DETAILED DRAWINGS OF HIS PROPOSED CONNECTIONS AT EACH FA TERMINAL CABINET PRIOR TO COMMENCING ANY WORK.
- ALL CONDUCTORS SHOWN SHALL BE #16 AWG, SOLID COPPER UNLESS OTHERWISE NOTED.
- WRITTEN CERTIFICATION BY THE FIRE ALARM EQUIPMENT DISTRIBUTOR (OR VENDOR OR MANUFACTURER) SHALL BE SUBMITTED TO THE ARCHITECT (WITH COPIES TO THE ELECTRICAL ENGINEER AND THE STATE FIRE MARSHAL) AND THAT THE INSTALLATION INCLUDES TESTING AND OPERATION CONFORMS IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN TITLE 19 OF THE CALIFORNIA ADMINISTRATIVE CODE AND PART 3, ARTICLE 3-760 OF TITLE 24 OF THE C.A.C. AND SECTION 2-609 OF PART 2 OF T-24 C.A.C.
- INSTALLATION OF FIRE ALARM SYSTEMS SHALL NOT BE STARTED UNTIL THE CONTRACTOR HAS SUBMITTED SHOP DRAWINGS AND RECEIVED STATE FIRE MARSHAL APPROVAL.



PULL BOX SCHEDULE

PB #1	30-1/4 X 48-1/4"	SEE DETAIL 3/E1
PB #2A	30-1/4 X 48-1/4"	SEE DETAIL 3/E1
PB #2B	30-1/4 X 48-1/4"	SEE DETAIL 3/E1
PB #3A	30-1/4 X 48-1/4"	SEE DETAIL 3/E1
PB #3B	30-1/4 X 48-1/4"	SEE DETAIL 3/E1
PB #3C	25 X 36-3/8"	SEE DETAIL 3/E1
PB #4	30-1/4 X 48-1/4"	SEE DETAIL 3/E1
PB #5	48 X 48"	SEE DETAIL 3/E1
PB #6	STATE #5	SEE DETAIL 3/E1
PB #7	STATE #5	SEE DETAIL 3/E1

UTILITY COMPANY **P&E CO.**

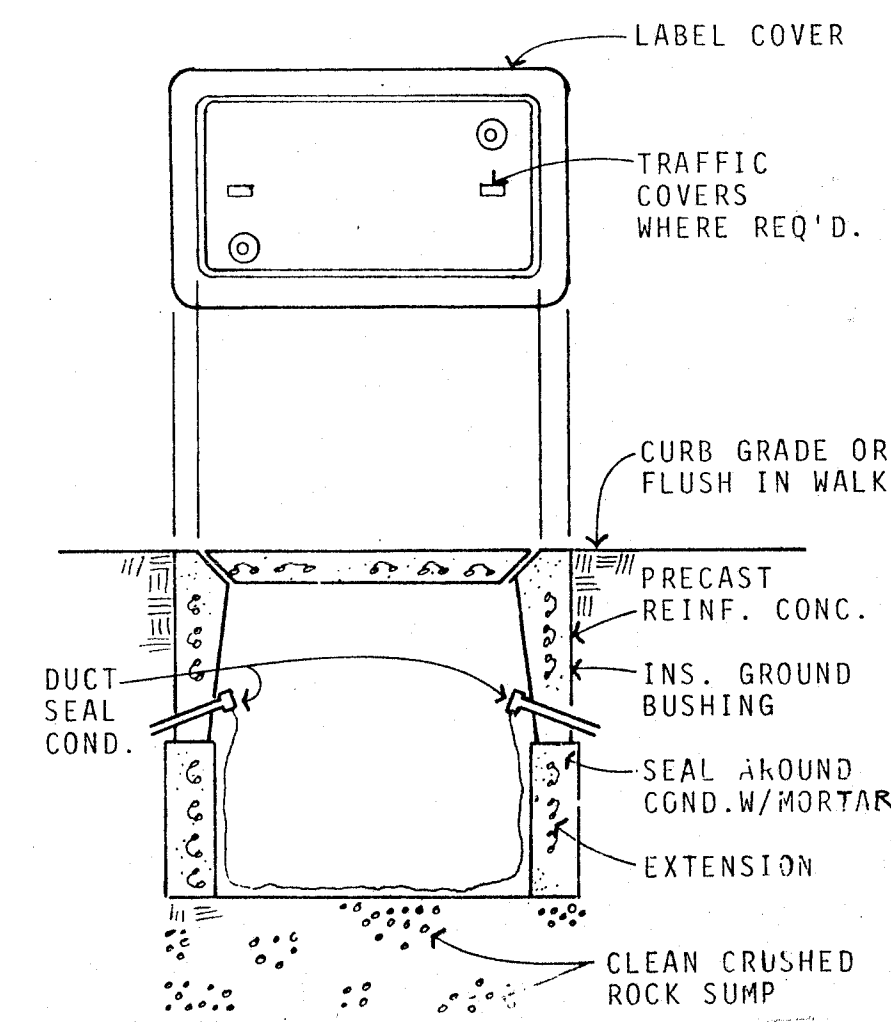
UTILITY CO. JOB REF. NO. _____

TELEPHONE NO. **1 805 390 5965**

ADDRESS **116 H STREET BAKERSFIELD, CALIF. 93301**

CONTACT **MR. TOM AGUILAR**

SYMBOL SCHEDULE		
SYMBOL	NAME	DESCRIPTION
□	FLUORESCENT FIXTURE	SEE PLAN & FIXTURE SCHEDULE
⊠	RECESSED FIXTURE	SEE PLAN & FIXTURE SCHEDULE
⊞	WALL BRACKET FIXTURE	SEE PLAN & FIXTURE SCHEDULE
⊞	EXIT LIGHT FIXTURE	SEE PLAN & FIXTURE SCHEDULE
⊞	PORCELAIN RECEPTACLE	SEE PLAN & FIXTURE SCHEDULE
⊞	LOCAL SWITCH MTD. @ 48" MAX.	20 A - AC QUIET 277V
⊞	3-WAY SWITCH MTD. @ 48" MAX.	20 A - AC QUIET 277V
⊞	SWITCH WITH PILOT LITE	NEON IN HANDLE MTD. @ 48" MAX.
⊞	FIXTURE TO LOCAL SWITCH &	SWITCH MTD. @ 48" MAX.
⊞	FIXTURE TYPE AND WATTAGE	SEE FIXTURE SCHEDULE
⊞	DENOTES MECHANICAL EQUIP.	REFER TO MECHANICAL DRAWINGS
⊞	DUPLEX CONVENIENCE OUTLET	20 A NEMA GROUNDED MTD. @ 12" MIN.
⊞	FOURPLEX CONV. OUTLET	20 A NEMA GROUNDED MTD. @ 12" MIN.
⊞	J-BOX AS REQUIRED	45 BOX & FLUSH PLATE MIN.
⊞	TELEPHONE OUTLET	AS REQUIRED, MINIMUM 1" CONDUIT
⊞	DENOTES EXISTING ITEM	
⊞	DENOTES NEW ITEM	
(N)	SIGNAL RACEWAY	
(N)	WIRING IN CEILING	UNLESS OTHERWISE NOTED
(N)	WIRING IN FLOOR OR WALL	UNLESS OTHERWISE NOTED
⊞	L.T.G. CONTROL & OUTPUT MODULES	HONEYWELL #EL720 AND #EL7000
⊞	SWITCHPACK	LIGHT-O-MATIC #13-011
⊞	MOTION DETECTOR	LIGHT-O-MATIC #01083
⊞	LIGHT SENSOR	HONEYWELL #EL7020
⊞	SURFACE MTD. METAL RACEWAY	SEE PLANS & REF. NOTES
(E)	WIRING	
(E)	LIGHTING OUTLET	
(E)	LIGHT SWITCH	
(E)	DUPLEX OUTLET	
(E)	THERMOSTAT	REFER TO MECHANICAL DRAWINGS
⊞	DISCONNECT SWITCH	
⊞	ELECTRICAL PANEL	REFER TO PANEL SCHEDULE
⊞	TERMINAL CABINET	
⊞	GROUND FAULT INTERRUPTING	
⊞	WEATHERPROOF	
⊞	FIRE ALARM FLASHING LITE MOUNTED @ +84"	PYROTRONICS #V33D WITH #GND03 CSFM #7300-067:39
⊞	MANUAL PULL STATION MOUNTED @ +84"	PYROTRONICS #HOC-24/AU32D CSFM #7135-067:20/7300-067:39
⊞	IONIZATION SMOKE DETECTOR	PYROTRONICS #D13/DB35 CSFM #7256-067:101
⊞	HEAT DETECTOR, FIXED TEMP. IN ATTIC	PYROTRONICS #DT200F CSFM #7270-067:10
⊞	MANUAL PULL STATION MOUNTED @ +48"	PYROTRONICS #MS-51 CSFM #7150-067:36
⊞	ZONE NUMBER - DEVICE NUMBER	
⊞	END OF LINE DEVICE	
⊞	HEAT DETECTOR, RATE OF RISE	PYROTRONICS #DT135R CSFM #7270-067:10
⊞	FIRE ALARM CONTROL PANEL	PYROTRONICS SYSTEM 3 CSFM #7165-067:35 PROVIDE SEPARATE 20A CIRCUIT
⊞	ILLUMINATED EXIT SIGN	EXTERIOR BUILDING SIGN SHALL BE RIGID STEEL
⊞	EXIT ILLUMINATION	



PULL BOX DETAIL

N.T.S.

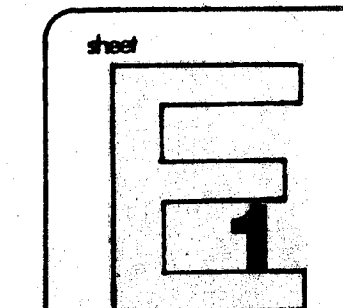
ELEC. SITE PLAN, SYMBOL SCHEDULE, GENERAL NOTES & DETAIL

HORACE MANN MODERNIZATION

BAKERSFIELD CITY SCHOOL DISTRICT
2710 NILES AVENUE
BAKERSFIELD, CALIFORNIA 93307

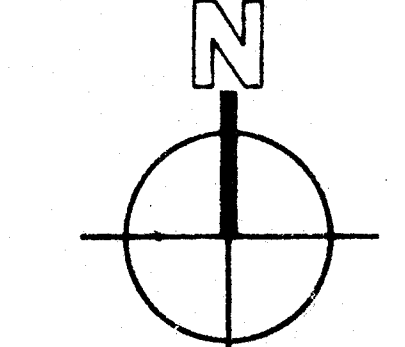
job 87-127

date 1 FEB 89



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ELECTRICAL SITE PLAN

approval

INTERSTATE ENGINEERING, INC.

DATE: 1/27/89

BY: [Signature]

PROJECT NO. 87-127

DATE: 1 FEB 89

C. 3132
C. 3289
K.C. 6564
C. 8021
C. 8702

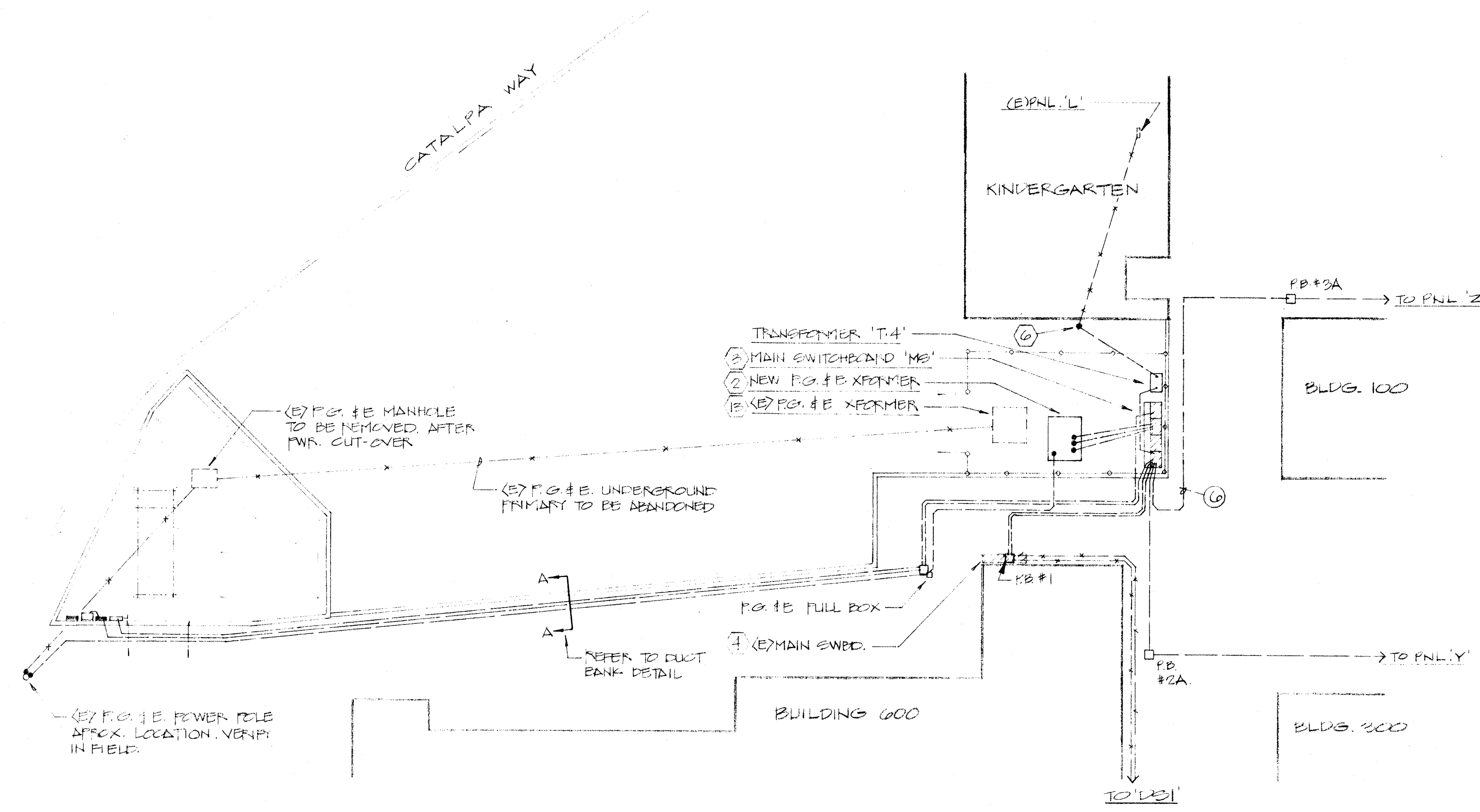
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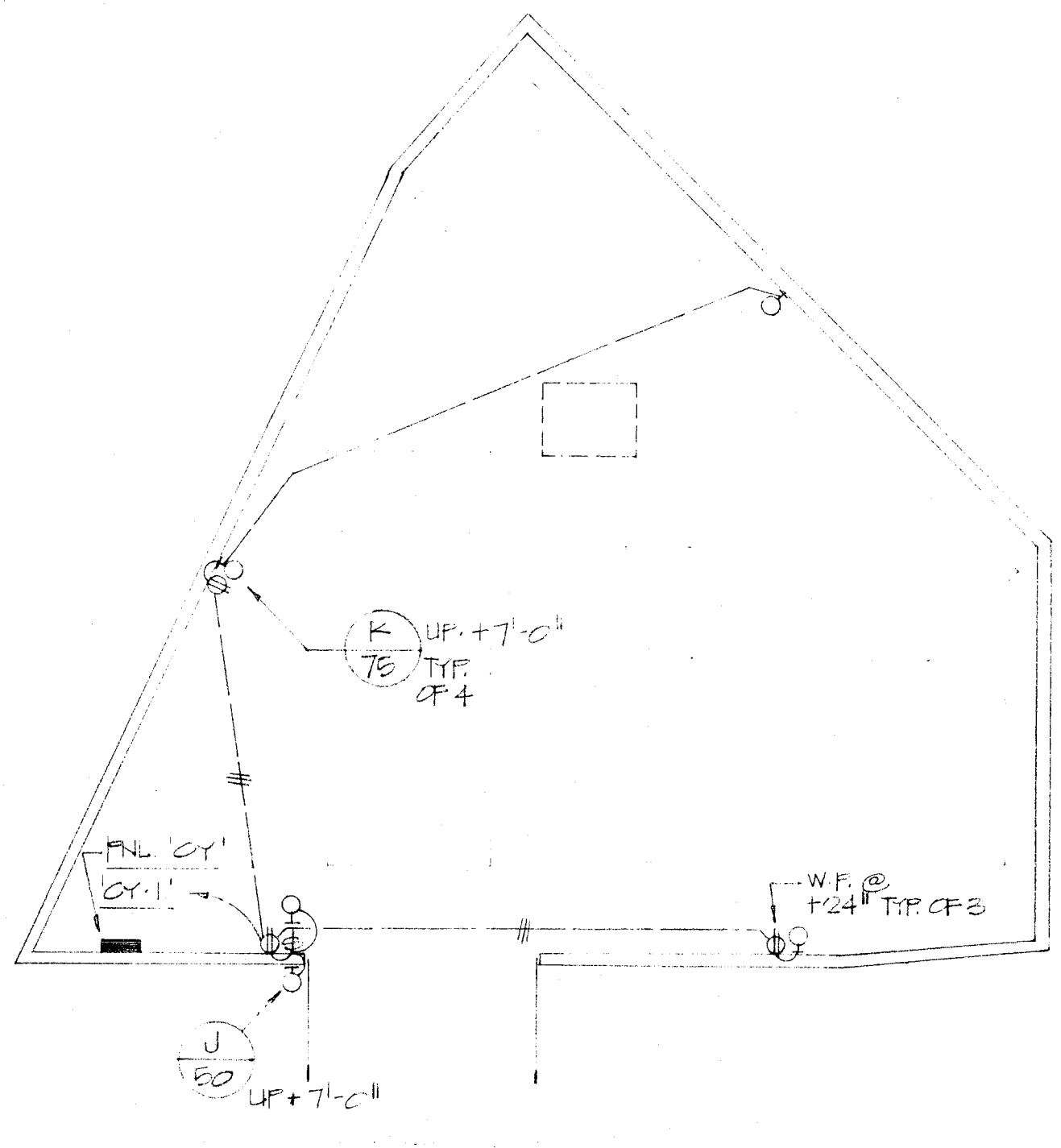
DATE: 1 FEB 89

job 87-127

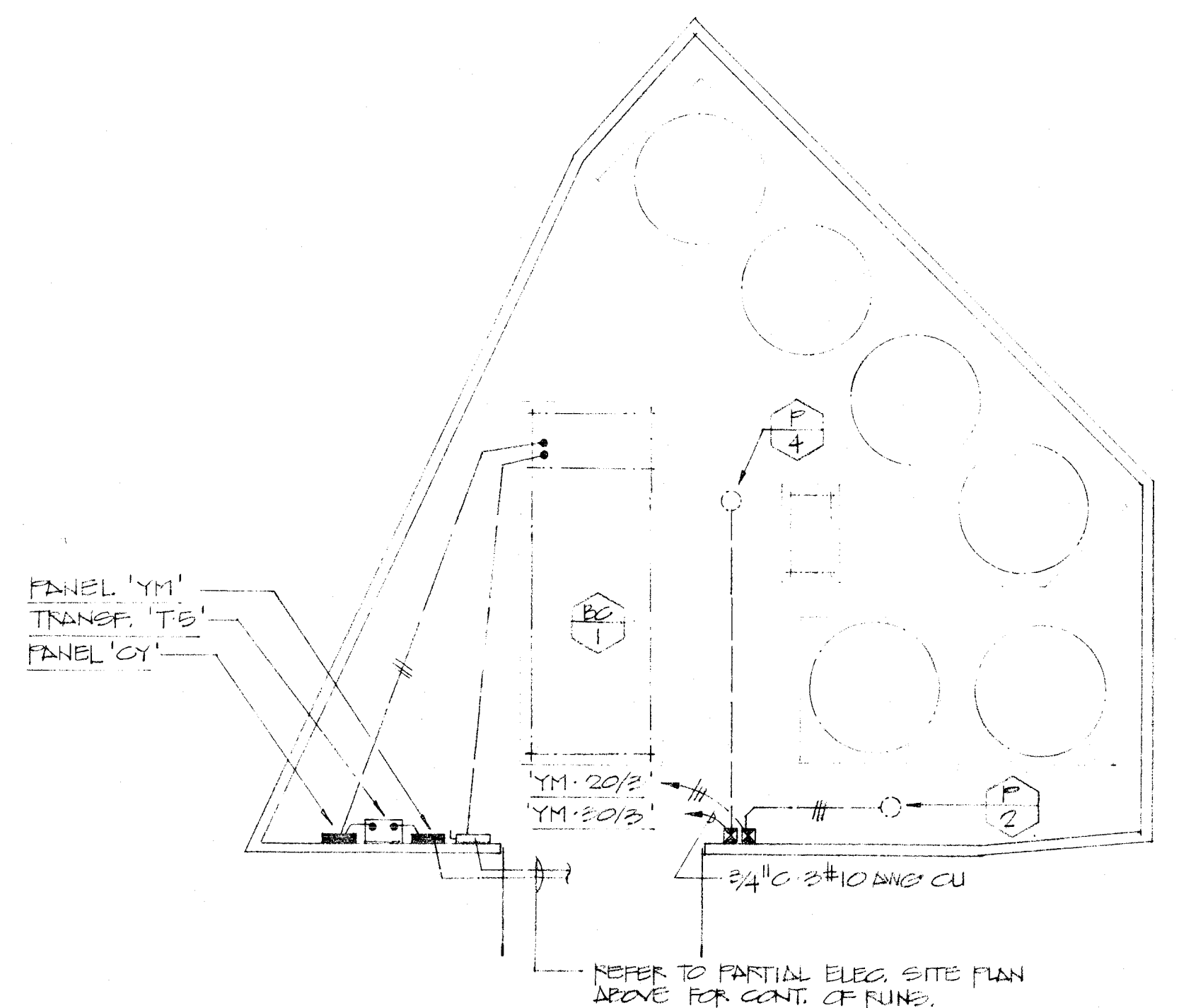
DATE: 1 FEB 89



PARTIAL ELECTRICAL SITE PLAN
1/4" = 1'-0"



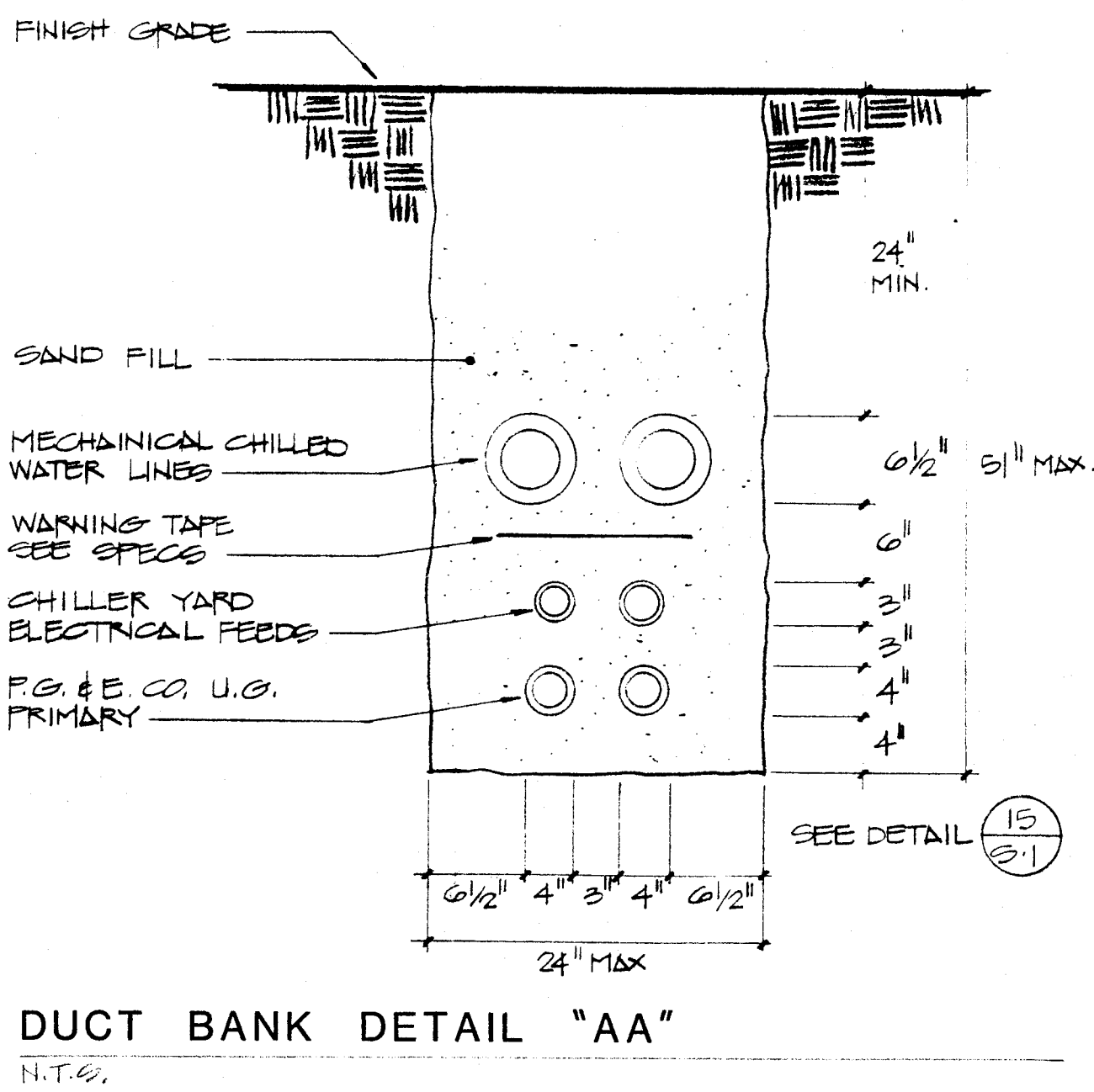
LIGHTING AND POWER



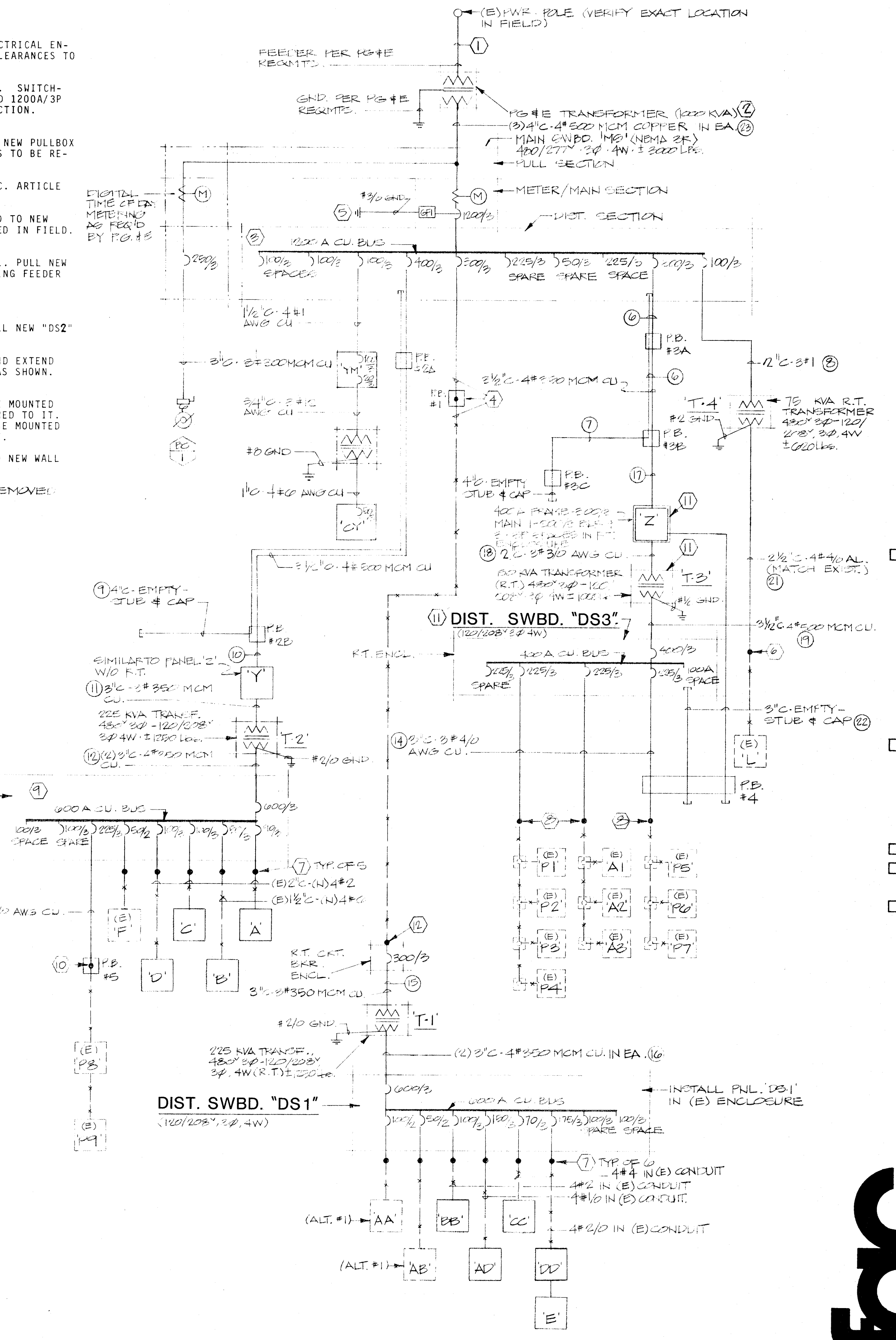
MECHANICAL EQUIPMENT

CHILLER YARD PLANS
SCALE: 1/8" = 1'-0"

- NOTES THIS SHEET ONLY:**
- 1 NEW PG&E SERVICE PER PG&E REQUIREMENTS.
 - 2 NEW 1000 KVA PG&E TRANSFORMER MOUNTED INSIDE ELECTRICAL ENCLOSURE. GROUND PER PG&E REQUIREMENTS. MINIMUM CLEARANCES TO BE VERIFIED WITH PG&E.
 - 3 NEW MAIN SWITCHBOARD "MS" WITH NEMA 3R ENCLOSURE. SWITCHBOARD TO HAVE UNDERGROUND PULL SECTION. METER AND 1200A/3P MAIN CIRCUIT BREAKER SECTION AND DISTRIBUTION SECTION. SWITCHBOARD TO BE 480/277V, 3Ø, 4 WIRE RATED.
 - 4 EXISTING MAIN SWITCHBOARD TO BE REMOVED. INSTALL NEW PULLBOX OVER EXISTING FEEDERS AND EXTEND EXISTING FEEDERS TO BE REUSED TO "MS".
 - 5 COLD WATER PIPE GROUND PLUS UFER GROUND PER N.E.C. ARTICLE 250 REQUIREMENTS.
 - 6 INTERCEPT EXISTING FEEDER TO PANEL "L" AND EXTEND TO NEW PANEL "CY". SIZE OF EXISTING FEEDER TO BE VERIFIED IN FIELD. SIZE OF NEW FEEDER SHALL MATCH EXISTING.
 - 7 INTERCEPT EXISTING FEEDER AND EXTEND TO NEW PANEL. PULL NEW CONDUCTORS - SIZE AS SHOWN. VERIFY SIZE OF EXISTING FEEDER IN FIELD.
 - 8 INSTALL NEW FEEDER AND CONNECT TO EXISTING.
 - 9 EXISTING DISTRIBUTION BOARD TO BE REMOVED. INSTALL NEW "DS2" OVER EXISTING FEEDERS AND CONNECT AS SHOWN.
 - 10 INTERCEPT EXISTING FEEDER, INSTALL NEW PULLBOX AND EXTEND FEEDER TO NEW PANEL. PULL NEW CONDUCTORS - SIZE AS SHOWN. VERIFY SIZE OF EXISTING FEEDER IN FIELD.
 - 11 NEW PANELS "Z" AND "DS3" AND TRANSFORMER SHALL BE MOUNTED NEAR EXISTING PORTABLE BUT NOT PERMANENTLY ATTACHED TO IT. ALL EQUIPMENT INTENDED FOR FLOOR MOUNTING SHALL BE MOUNTED ON 4" CONCRETE PAD. ALL EQUIPMENT TO BE RAINTIGHT.
 - 12 INTERCEPT EXISTING FEEDER AND EXTEND AS NEEDED TO NEW WALL MOUNTED RAINTIGHT CIRCUIT BREAKER ENCLOSURE.
 - 13 EXISTING PG&E TRANSFORMER TO BE REMOVED AFTER POWER CUT-OVER.



DUCT BANK DETAIL "AA"
N.T.C.



ONE LINE DIAGRAM
N.T.C.

approved

approved

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C. 8702

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ELECTRICAL ENGINEER

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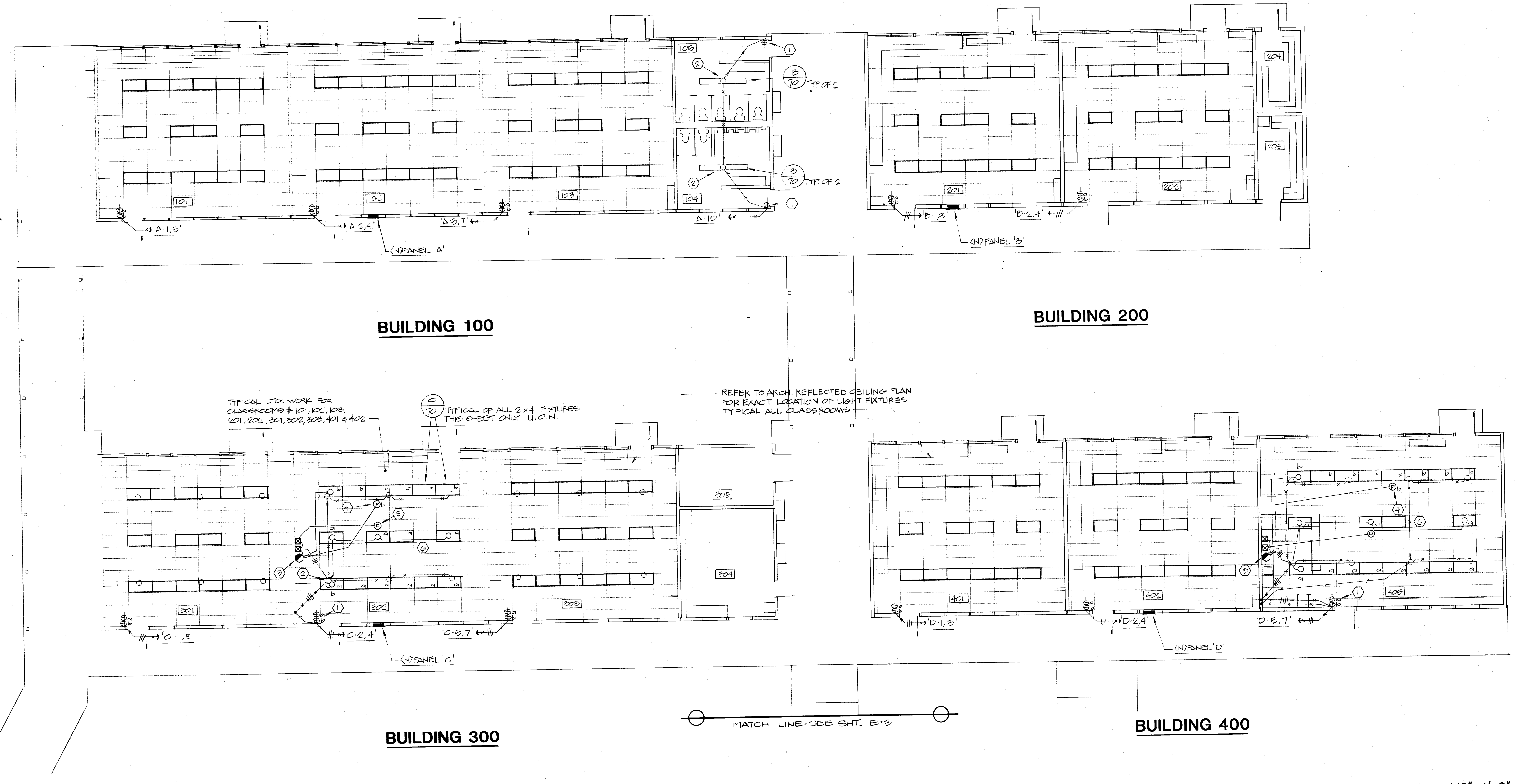
PARTIAL ELEC. SITE PLAN, CHILLER YARD PLAN & ONE LINE DIAGRAM
HORACE MANN MODERNIZATION
BAKERSFIELD CITY SCHOOL DISTRICT
2710 NILES AVENUE
BAKERSFIELD, CALIFORNIA 93307

job 27127
date 1 FEB 89

1A

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FLOOR PLANS - LIGHTING

1/8"=1'-0"

FIXTURE SCHEDULE					
TYPE	DESCRIPTION	LAMPS	MTG.	VOLT.	REMARKS
A	NOT USED	NOT USED	NOT USED		
B	NULITE #WAI-240-WH-LE3	LITHONIA #YG-240-120-BS	GLOBE #WVY-2102-AR-BSD	CF40W	SURFACE 120V SEE MTR. DETAIL (1) (E3)
C	COLUMBIA #SPB-22-82-125-242-B5B	LITHONIA #39PG-240-112-103-120-PAP-B5	GLOBE #QTYE-0202-4R-B5B	CF40W	RECESS SEE MTR. DETAIL (2) (E3)
D	COLUMBIA #SPB-22-82-125-244-B5B	LITHONIA #39PG-440-112-103-110-PAP-B5	GLOBE #QTYE-0204-4R-B5B	4F40W	RECESS SEE MTR. DETAIL (2) (E3)
F	FRESCOLITE #2200	APPROVED EQUAL	APPROVED EQUAL	80W H.P.S.	SURFACE MTD. OVER (E) RECESSED CAN
G	COLUMBIA #G112-82-125-142-B5B	LITHONIA #M1-240-112-103-120-BS	GLOBE #ETE-2112-4R-B5B	2F40W	SURFACE
H	FRESCOLITE #1015-187-MW	MARCO #E401-202	MC. HILBEN #4-211B	150W	RECESS
J	G.E. #WLT-055-INLN4-F	LITHONIA #T1WL-205N-LP-120-SF-D1B-PER	HUBBEL #NR3-201-PE-FURSD	H.P.S. 80W	WALL
K	STAR #20-2TP	FAIR FAPE #1B-P10-2	KENNEL #3000	75W 2-19	WALL
X	CHLORIDE #BK-P-N-1-R-UN	LITHONIA #P2E-SIK-ELN	EMERALITE #DEEX-76-R-10-FL	INCLUDED	(UNIVERSAL)
L	NULITE #LX-220-HFS-511-BST	APPROVED EQUAL	APPROVED EQUAL	CF40	WALL OR CLO. WITH BATTERY PACK FOR EM. OPERATION.

PANEL 'A' (BLDG. 100)				TYPE N400 (E)			
CIRCUIT	WATTAGE	USE	LOAD-TYPE	CIRCUIT	WATTAGE	USE	LOAD-TYPE
NO.	Ø A	Ø B	Ø C	NO.	Ø A	Ø B	Ø C
1	400			1	400		
2	400			2	400		
3	400			3	400		
4	400			4	400		
5	400			5	400		
6	400			6	400		
7	400			7	400		
8	400			8	400		
9	400			9	400		
10	400			10	400		
11	400			11	400		
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35	400			35	400		
36	400			36	400		
37	400			37	400		
38	400			38	400		
39	400			39	400		
40	400			40	400		
41	400			41	400		
42	400			42	400		
SUB-TOTAL				SUB-TOTAL			
2400 1200 2400				2400 1200 2400			
VOLTS 120/208/240 MAIN 208				LOAD SUMMARY			
FEEDER (E) 210-212-2				LIGHTING			
BUS 100-A				RECEPTACLE			
				HEATING			
				MOTOR			
				TOTAL			
				AMPS			
				40			
SYSTEM SHORT CIRCUIT RATING (SYM)				TOTAL			

- REFERENCE NOTES (THIS SHEET ONLY):
- REPLACE EXISTING WALL SWITCHES AND PLATE.
 - CONNECT NEW FIXTURES TO EXISTING CIRCUITS.
 - AUTOMATIC TUNING CONTROL MOUNTED ABOVE CEILING IN ACCESSIBLE AREA. SEE WIRING DIAGRAM ON SHEET E-4.
 - PHOTO ELECTRIC CELL MOUNTED ON CEILING MINIMUM 10'-0" AWAY FROM NEAREST WINDOW. SEE WIRING DIAGRAM ON SHEET E-4.
 - MOTION SENSOR MOUNTED ON CEILING APPROXIMATELY IN CENTER OF ROOM. SEE WIRING DIAGRAM ON SHEET E-4.
 - REMOVE ALL EXISTING LIGHT FIXTURES IN CLASSROOM - SEE NOTE (2).
- FIXTURE NOTES:
- ALL 40W FLUORESCENT BALLASTS TO BE ADVANCE MARK III.
 - ALL 40W FLUORESCENT LAMPS TO BE GE FA0LW/RS/WMI1.
 - ALL LENSES TO BE MINIMUM .125" PATTERN 12A ACRYLIC.
 - ALL HID BALLASTS TO BE FUSED BY FIXTURE MANUFACTURER. WITH 600V FUSE HOLDERS. FUSE SIZE TO BE PER BALLAST MANUFACTURER RECOMMENDATIONS.

approved

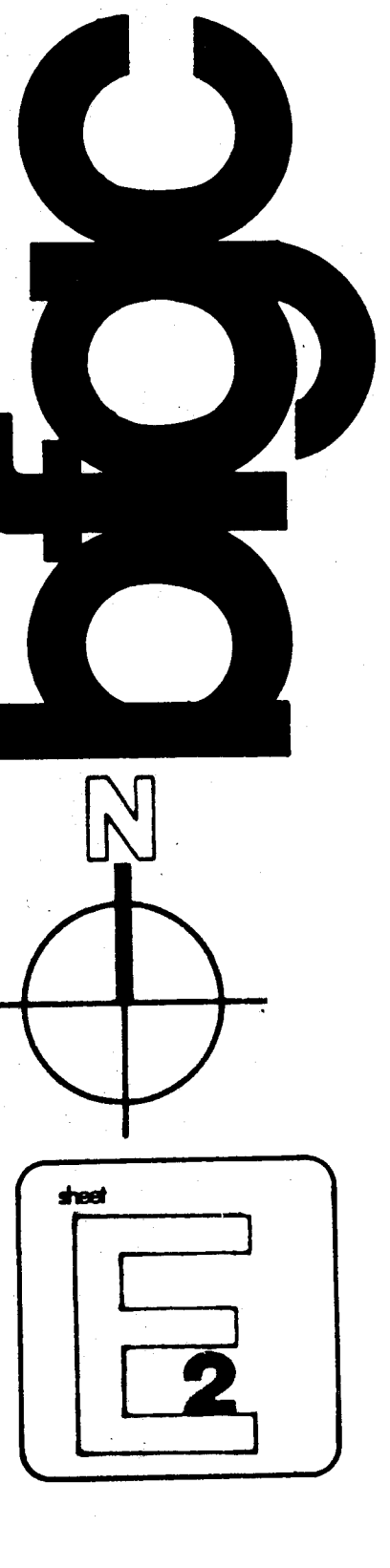
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100 EAST MILLBURN AVENUE, BAKERSFIELD, CALIFORNIA 93311

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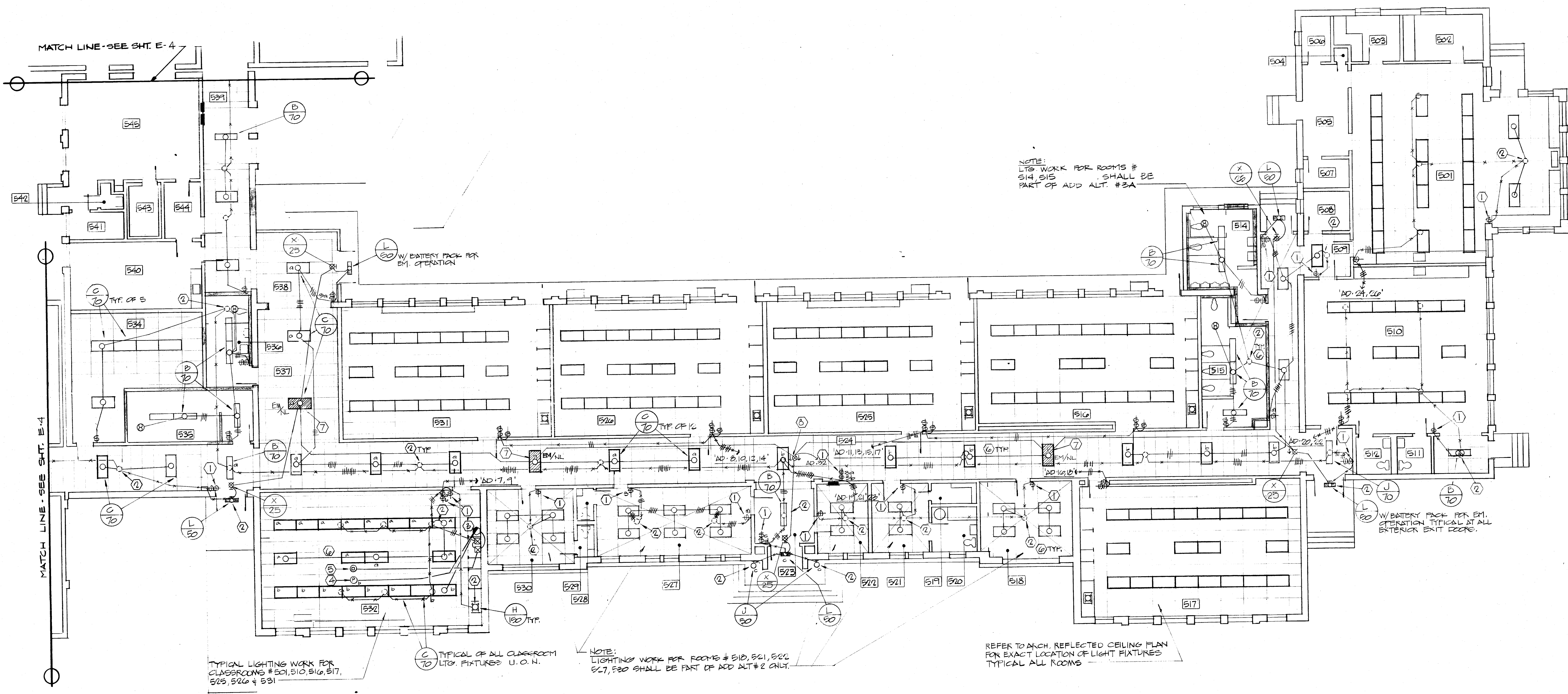
FLOOR PLANS - LIGHTING BLDGS. 100, 100, 300 & 400 AND FIX. SCHEDULE
HORACE MANN MODERNIZATION
BAKERSFIELD CIVIL SCHOOL DISTRICT
2710 NILES AVENUE
BAKERSFIELD, CALIFORNIA 93307

job 87-147
date 1 FEB 87



MATCH LINE - SEE SHT. E-2

MATCH LINE - SEE SHT. E-4



NOTE:
LTS WORK FOR ROOMS #
514, 515
SHALL BE
PART OF ADD ALT. #3A

TYPICAL LIGHTING WORK FOR
CLASSROOMS # 501, 510, 516, 517,
519, 520 & 531

C TYPICAL OF ALL CLASSROOM
LGT. FIXTURES U. O. N.

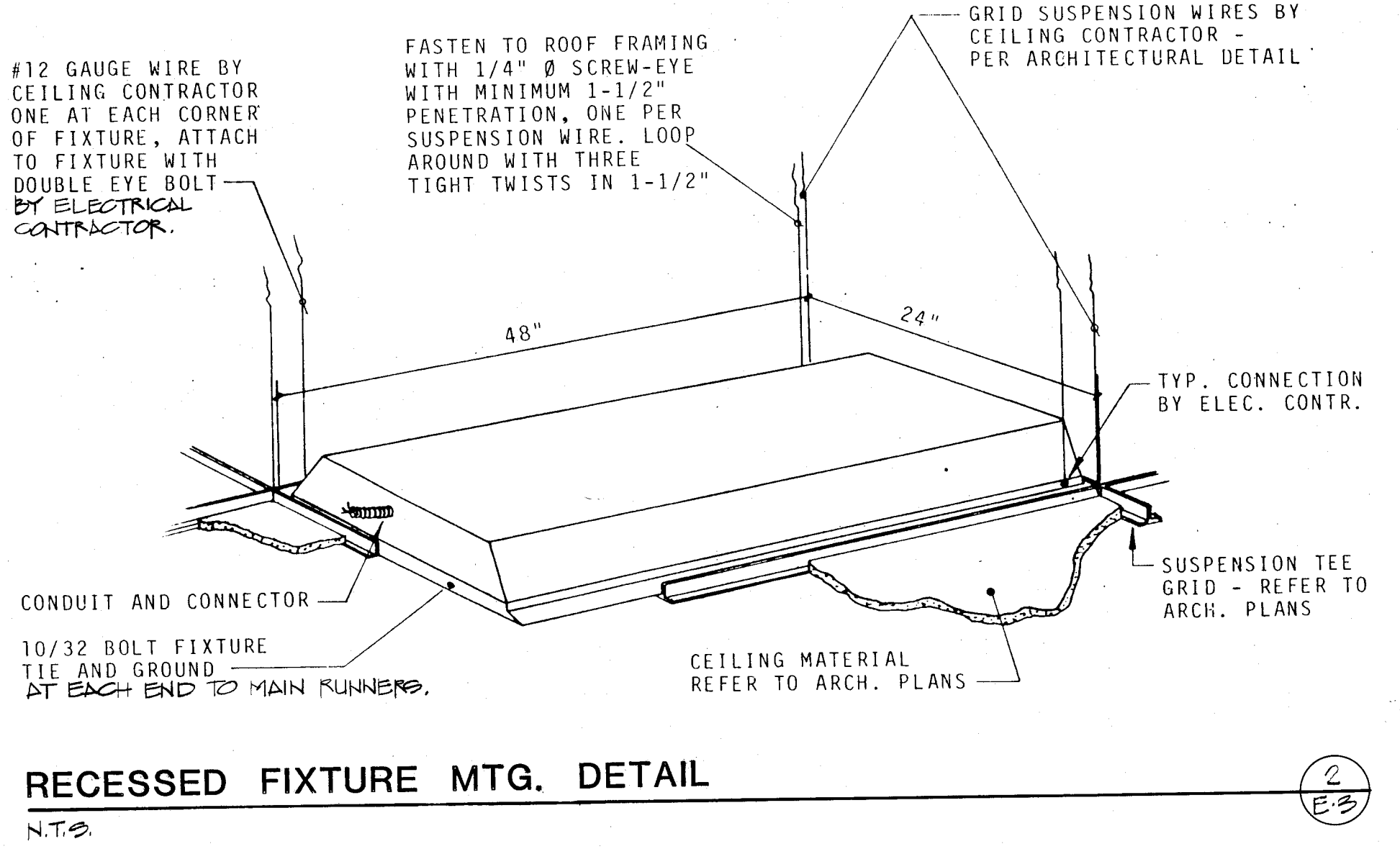
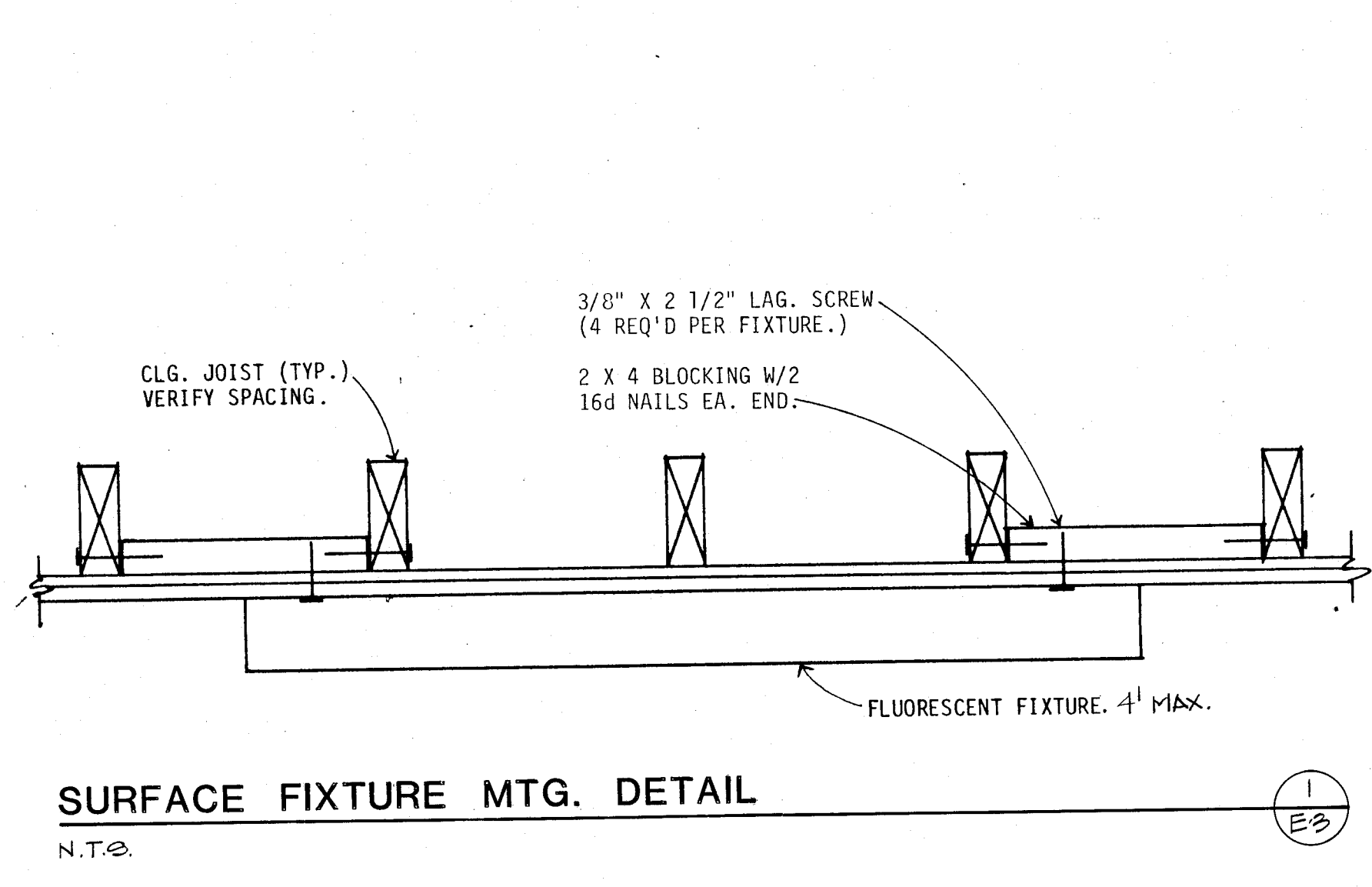
NOTE:
LIGHTING WORK FOR ROOMS # 510, 511, 512,
517, 519 SHALL BE PART OF ADD ALT #2 ONLY.

REFER TO ARCH. REFLECTED CEILING PLAN
FOR EXACT LOCATION OF LIGHT FIXTURES
TYPICAL ALL ROOMS

W/BATTERY BACK FOR EM.
OPERATION TYPICAL AT ALL
EXTERIOR EXIT DOORS.

BUILDING 500 FLOOR PLAN - LIGHTING

1/8" = 1'-0"



- REFERENCE NOTES (THIS SHEET ONLY):
- 1 REPLACE EXISTING WALL SWITCHES AND PLATE.
 - 2 CONNECT NEW FIXTURES TO EXISTING CIRCUITS.
 - 3 AUTOMATIC TUNING CONTROL MOUNTED ABOVE CEILING IN ACCESSIBLE AREA. SEE WIRING DIAGRAM ON SHEET E-4.
 - 4 PHOTO ELECTRIC CELL MOUNTED ON CEILING MINIMUM 10'-0" AWAY FROM NEAREST WINDOW. SEE WIRING DIAGRAM ON SHEET E-4.
 - 5 MOTION SENSOR MOUNTED ON CEILING APPROXIMATELY IN CENTER OF ROOM. SEE WIRING DIAGRAM ON SHEET E-4.
 - 6 REMOVE ALL EXISTING LIGHT FIXTURES IN CLASSROOMS AND OFFICES. COORDINATE WITH NOTES (2).
 - 7 LIGHT FIXTURE SIMILAR TO TYPE 'C' BUT EQUIPPED WITH BATTERY BACK FOR EMERGENCY OPERATION.
 - 8 EXIST LIGHT FIXTURE SIMILAR TO TYPE 'X' BUT DOUBLE BACK WITH ARROWS AS SHOWN.

approved

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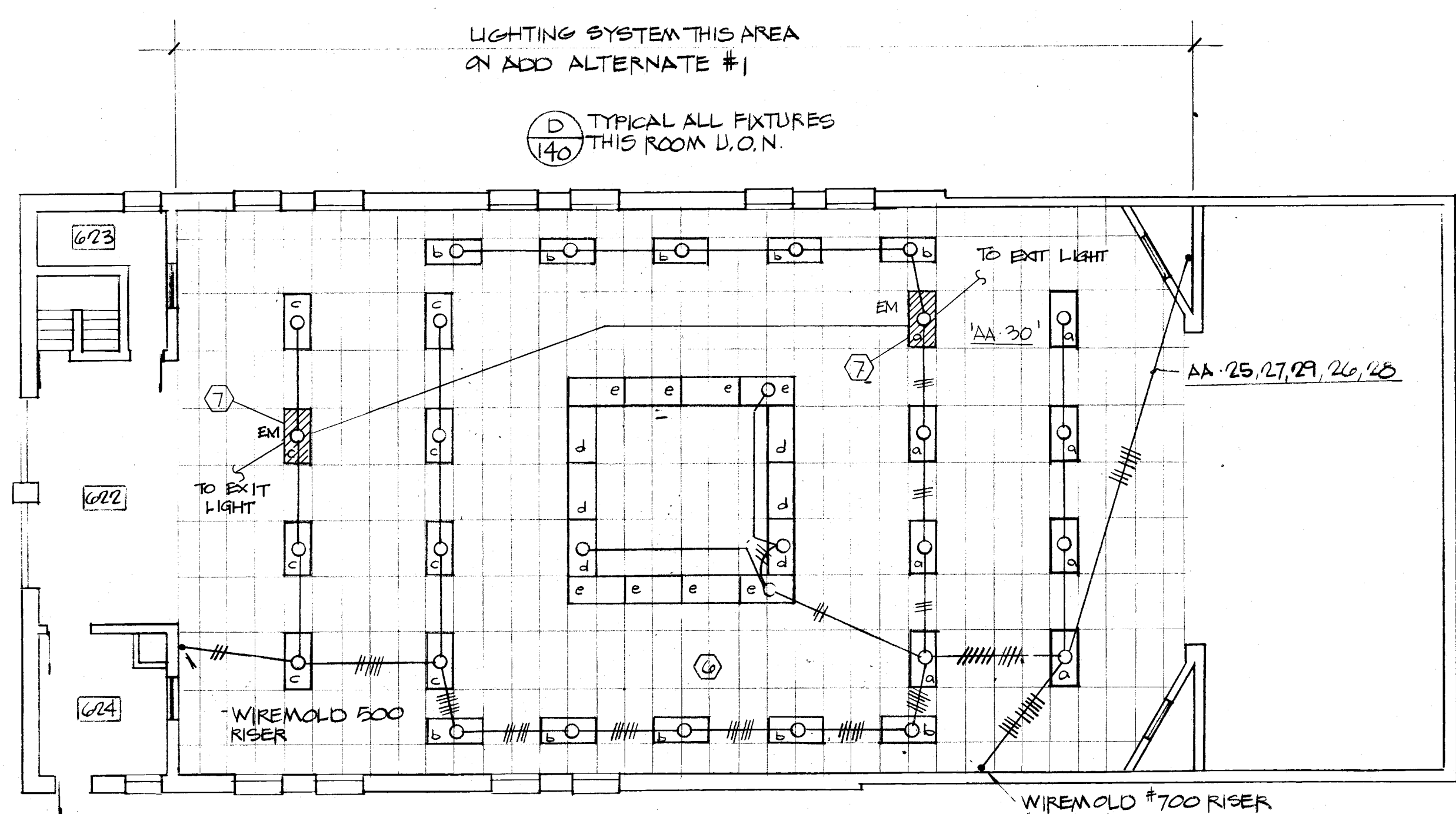
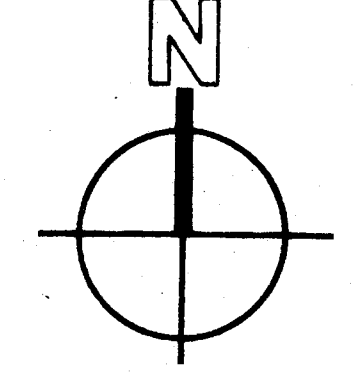
LIGHTING FLOOR PLAN - BUILDING 500 & DETAILS
HORACE MANN MODERNIZATION
BAKERSFIELD CIVIL SCHOOL DISTRICT
2710 NILES AVENUE
BAKERSFIELD, CALIFORNIA 93307

job 27-127
date 1 FEB 87

sheet 3

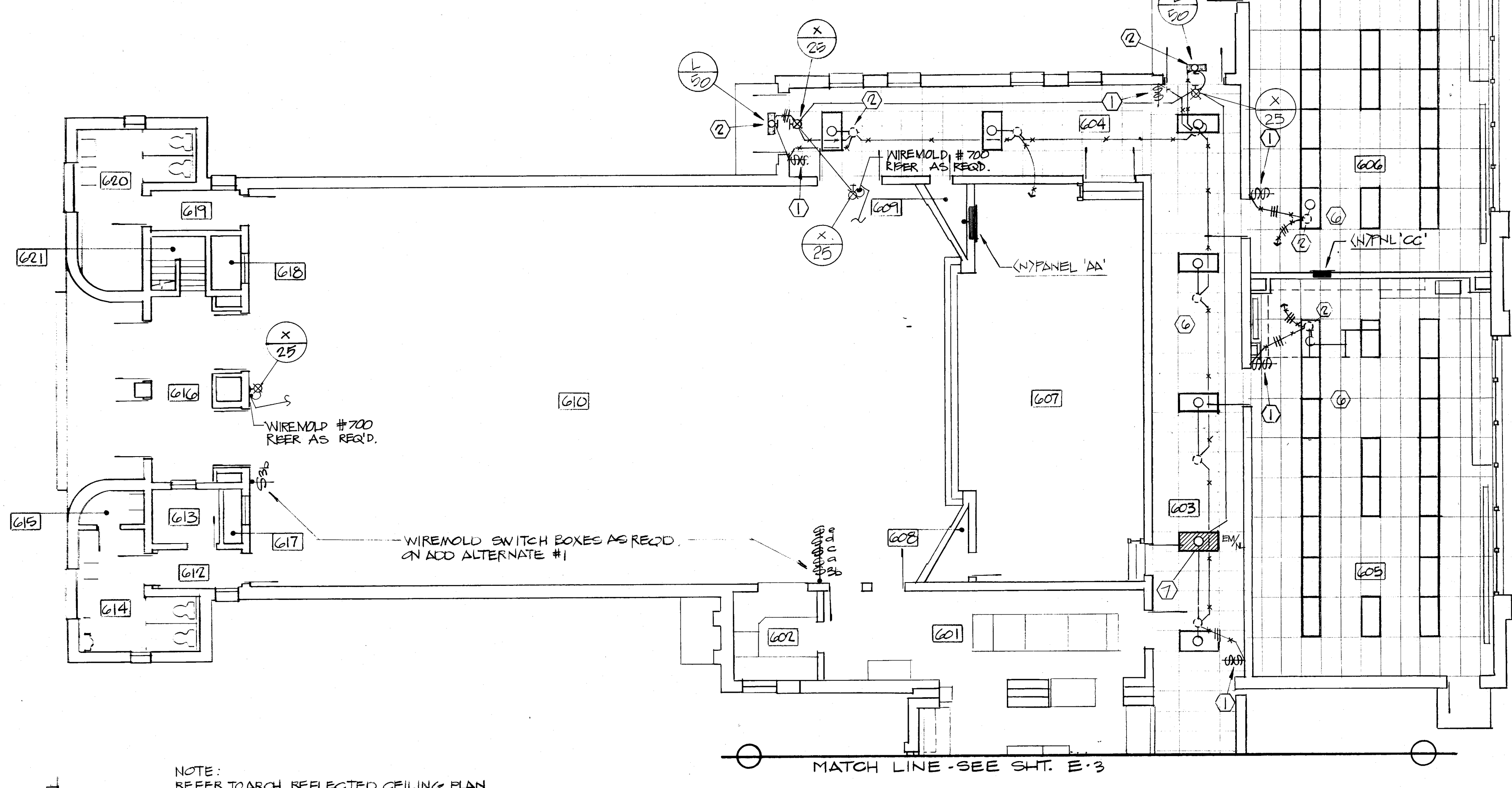
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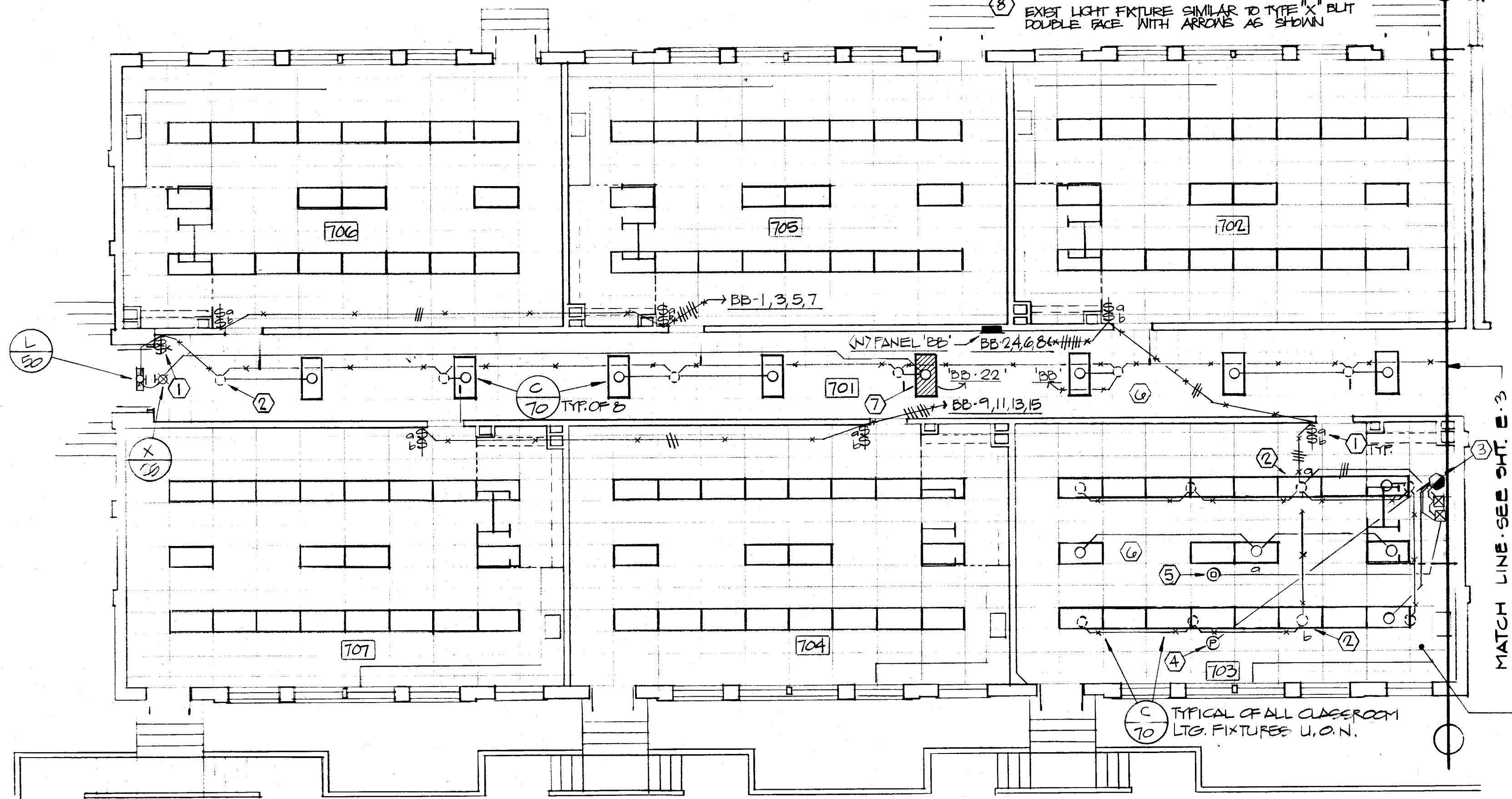
**BUILDING 600
SECOND FLOOR**

- REFERENCE NOTES (THIS SHEET ONLY):
- 1 REPLACE EXISTING WALL SWITCHES AND PLATE.
 - 2 CONNECT NEW FIXTURES TO EXISTING CIRCUITS.
 - 3 AUTOMATIC TUNING CONTROL MOUNTED ABOVE CEILING IN ACCESSIBLE AREA - SEE WIRING DIAGRAM ON SHEET E-4.
 - 4 PHOTOELECTRIC CELL MOUNTED ON CEILING MINIMUM 10'-0" AWAY FROM NEAREST WINDOW - SEE WIRING DIAGRAM ON SHEET E-4.
 - 5 MOTION SENSOR MOUNTED ON CEILING APPROXIMATELY IN CENTER OF ROOM - SEE WIRING DIAGRAM ON SHEET E-4.
 - 6 REMOVE ALL EXISTING LIGHT FIXTURES IN CLASSROOMS AND CORRIDORS. COORDINATE WITH NOTE 2.
 - 7 LIGHT FIXTURE SIMILAR TO TYPE 'C' BUT EQUIPPED WITH BATTERY PACK FOR EMERGENCY OPERATION.
 - 8 EXIST LIGHT FIXTURE SIMILAR TO TYPE 'X' BUT DOUBLE SIZE WITH ARROWS AS SHOWN.

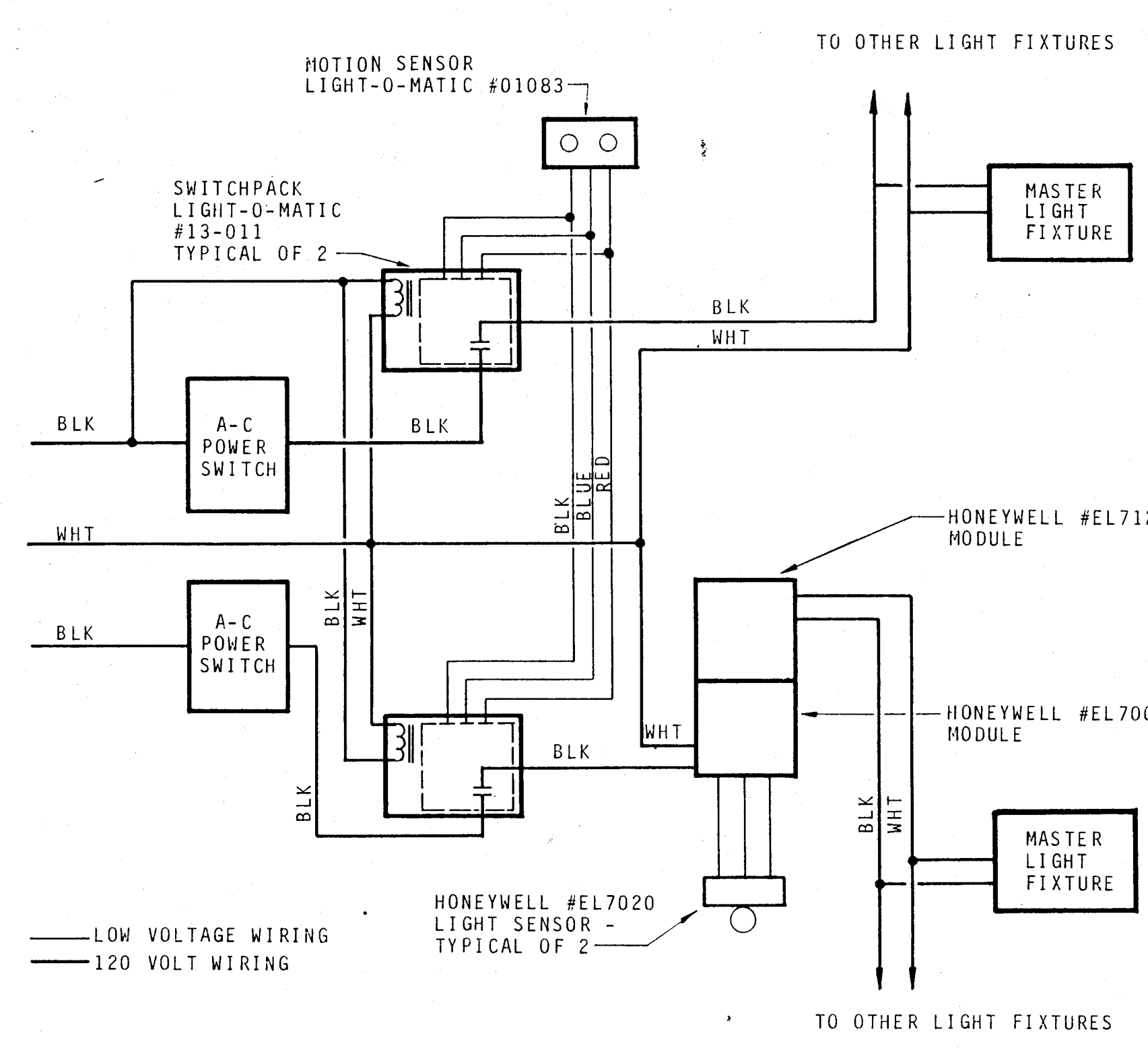


BUILDING 600

NOTE:
REFER TO ARCH. REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES TYPICAL ALL ROOMS



BUILDING 700



CLASSROOM LIGHTING CONTROL DIAGRAM
N.T.S.

- NOTES - CLASSROOM LIGHTING CONTROL:
1. ALL LAMPS TO BE STANDARD COOL WHITE.
 2. ALL BALLASTS TO BE ENERGY SAVINGS.
 3. ALL MOTION SENSORS TO BE FIELD ADJUSTED DURING DAY AND NIGHT.
 4. DIMMING SYSTEM TO INCLUDE A FIVE YEAR WARRANTY IN WRITING BY MANUFACTURER.
 5. LIGHT SENSORS TO BE ADJUSTED DURING THE DAY.
 6. PRIOR TO INSTALLATION OF LIGHTING CONTROLS, A FACTORY REPRESENTATIVE IS REQUIRED TO REVIEW AT THE SITE ALL WIRING AND INSTALLATION REQUIREMENTS.
 7. A FACTORY REPRESENTATIVE FOR THE DIMMING, SENSING AND LIGHT LEVEL CONTROL SHALL INSPECT SYSTEM OPERATION PRIOR TO FINAL PROJECT ACCEPTANCE AND SHALL, IN WRITING, CERTIFY SYSTEM IS PROPERLY INSTALLED, CALIBRATED AND OPERATING PER MANUFACTURER'S RECOMMENDATIONS. THIS REVIEW IS TO BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR.

FLOOR PLANS - LIGHTING

1/8" = 1'-0"

approved

DATE

PROJECT

NO.

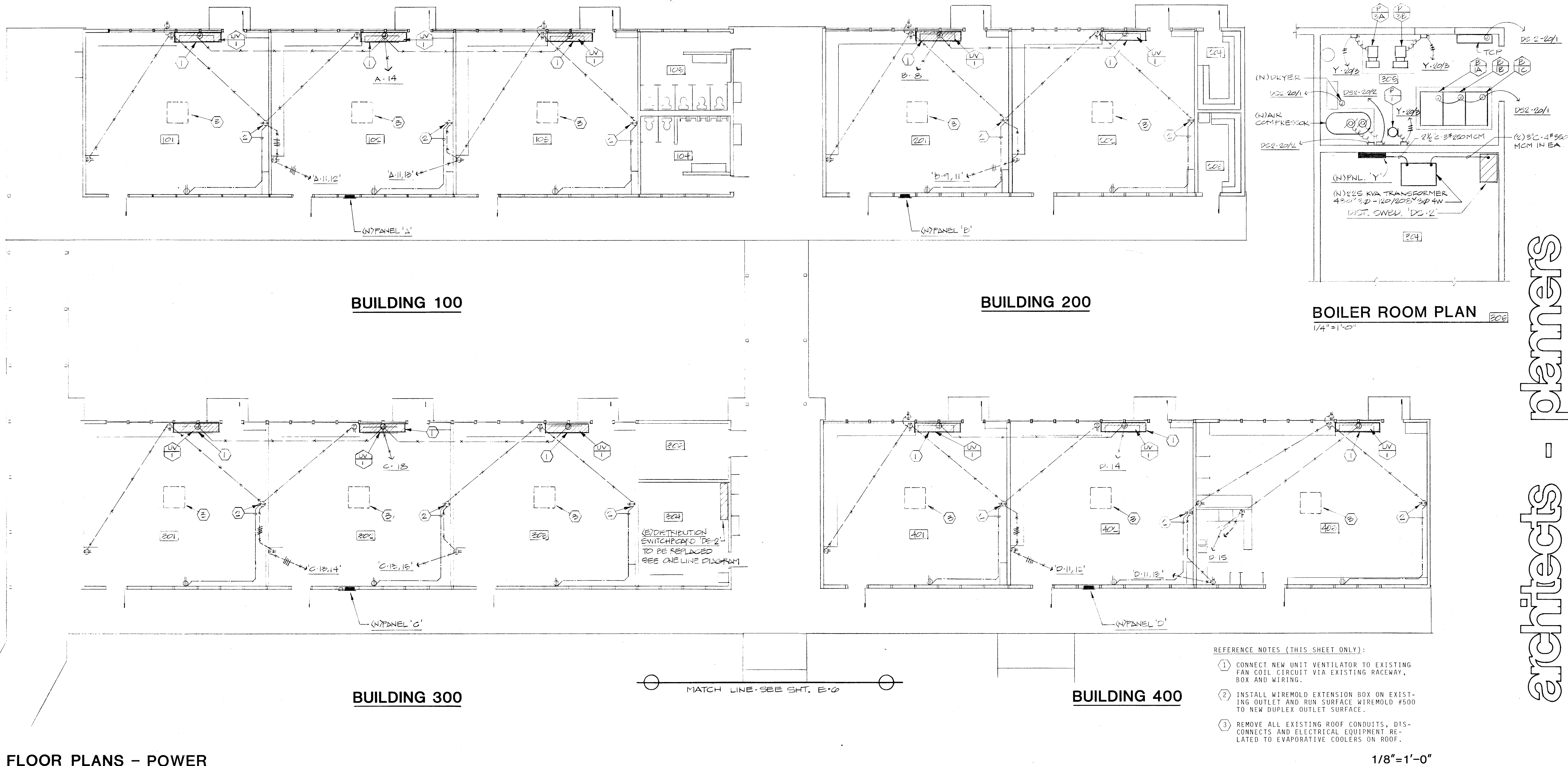
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[Signature]
INTERSTATE ENGINEERING, INC.
101 WEST HILLYARD AVENUE, SUITE 100, BAKERSFIELD, CA 93311

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*C. 6564
C. 8021
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LIGHTING FLOOR PLAN - BLDGS 600/700 & LTR. DIAGRAM
HORACE MANN MODERNIZATION
BAKERSFIELD CIV. SCHOOL DISTRICT
2710 NILES AVENUE
BAKERSFIELD, CALIFORNIA 93307

job 07-127
date 1 FEB 89



FLOOR PLANS - POWER

- REFERENCE NOTES (THIS SHEET ONLY):
- ① CONNECT NEW UNIT VENTILATOR TO EXISTING FAN COIL CIRCUIT VIA EXISTING RACEWAY, BOX AND WIRING.
 - ② INSTALL WIREMOLD EXTENSION BOX ON EXISTING OUTLET AND RUN SURFACE WIREMOLD #500 TO NEW DUPLEX OUTLET SURFACE.
 - ③ REMOVE ALL EXISTING ROOF CONDUITS, DISCONNECTS AND ELECTRICAL EQUIPMENT RELATED TO EVAPORATIVE COOLERS ON ROOF.
- 1/8" = 1'-0"

architects - planners

PANEL 'B' (BLDG 200)				TYPE NQ00(B)			
CIRCUIT	WATTAGE	USE	LOAD-TYPE	CB	LT	RC	HT
1-30	1-30	1-30	1-30	1-30	1-30	1-30	1-30
1	400	SPARE	SPARE	1			
2	1000	UNIT VENT. B.S.A	UNIT VENT.	2			
3	500	SPARE	SPARE	3			
4	500	SPARE	SPARE	4			
5	500	SPARE	SPARE	5			
6	500	SPARE	SPARE	6			
7	500	SPARE	SPARE	7			
8	500	SPARE	SPARE	8			
9	500	SPARE	SPARE	9			
10	500	SPARE	SPARE	10			
11	500	SPARE	SPARE	11			
12	500	SPARE	SPARE	12			
13	500	SPARE	SPARE	13			
14	500	SPARE	SPARE	14			
15	500	SPARE	SPARE	15			
16	500	SPARE	SPARE	16			
17	500	SPARE	SPARE	17			
18	500	SPARE	SPARE	18			
19	500	SPARE	SPARE	19			
20	500	SPARE	SPARE	20			
21	500	SPARE	SPARE	21			
22	500	SPARE	SPARE	22			
23	500	SPARE	SPARE	23			
24	500	SPARE	SPARE	24			
25	500	SPARE	SPARE	25			
26	500	SPARE	SPARE	26			
27	500	SPARE	SPARE	27			
28	500	SPARE	SPARE	28			
29	500	SPARE	SPARE	29			
30	500	SPARE	SPARE	30			
31	500	SPARE	SPARE	31			
32	500	SPARE	SPARE	32			
33	500	SPARE	SPARE	33			
34	500	SPARE	SPARE	34			
35	500	SPARE	SPARE	35			
36	500	SPARE	SPARE	36			
37	500	SPARE	SPARE	37			
38	500	SPARE	SPARE	38			
39	500	SPARE	SPARE	39			
40	500	SPARE	SPARE	40			
41	500	SPARE	SPARE	41			
42	500	SPARE	SPARE	42			
SUB-TOTAL				1100	1100	1100	1100

VOLTS 120/208/240/480 MAIN 20/30
 FEEDER 4#12 AWG CU MTG FLUSH*
 BUS 100

LOAD SUMMARY
 LIGHTING _____
 RECEPTACLE _____
 HEATING _____
 MOTOR _____
 TOTAL _____

SYSTEM SHORT CIRCUIT RATING (SYM) TOTAL _____

* INSTALL INTERLOCK AND COVER IN EXISTING. RECONNECT ALL (S) CIRCUITS BEING REUSED. TYP OF PNL'S 'C' & 'D'

PANEL 'C' (BLDG 300)				TYPE NQ00(B)			
CIRCUIT	WATTAGE	USE	LOAD-TYPE	CB	LT	RC	HT
1-30	1-30	1-30	1-30	1-30	1-30	1-30	1-30
1	400	SPARE	SPARE	1			
2	1000	UNIT VENT. B.S.A	UNIT VENT.	2			
3	500	SPARE	SPARE	3			
4	500	SPARE	SPARE	4			
5	500	SPARE	SPARE	5			
6	500	SPARE	SPARE	6			
7	500	SPARE	SPARE	7			
8	500	SPARE	SPARE	8			
9	500	SPARE	SPARE	9			
10	500	SPARE	SPARE	10			
11	500	SPARE	SPARE	11			
12	500	SPARE	SPARE	12			
13	500	SPARE	SPARE	13			
14	500	SPARE	SPARE	14			
15	500	SPARE	SPARE	15			
16	500	SPARE	SPARE	16			
17	500	SPARE	SPARE	17			
18	500	SPARE	SPARE	18			
19	500	SPARE	SPARE	19			
20	500	SPARE	SPARE	20			
21	500	SPARE	SPARE	21			
22	500	SPARE	SPARE	22			
23	500	SPARE	SPARE	23			
24	500	SPARE	SPARE	24			
25	500	SPARE	SPARE	25			
26	500	SPARE	SPARE	26			
27	500	SPARE	SPARE	27			
28	500	SPARE	SPARE	28			
29	500	SPARE	SPARE	29			
30	500	SPARE	SPARE	30			
31	500	SPARE	SPARE	31			
32	500	SPARE	SPARE	32			
33	500	SPARE	SPARE	33			
34	500	SPARE	SPARE	34			
35	500	SPARE	SPARE	35			
36	500	SPARE	SPARE	36			
37	500	SPARE	SPARE	37			
38	500	SPARE	SPARE	38			
39	500	SPARE	SPARE	39			
40	500	SPARE	SPARE	40			
41	500	SPARE	SPARE	41			
42	500	SPARE	SPARE	42			
SUB-TOTAL				1100	1100	1100	1100

VOLTS 120/208/240/480 MAIN 20/30
 FEEDER 4#12 AWG CU MTG FLUSH*
 BUS 100

LOAD SUMMARY
 LIGHTING _____
 RECEPTACLE _____
 HEATING _____
 MOTOR _____
 TOTAL _____

SYSTEM SHORT CIRCUIT RATING (SYM) TOTAL _____

PANEL 'D' (BLDG 400)				TYPE NQ00(B)			
CIRCUIT	WATTAGE	USE	LOAD-TYPE	CB	LT	RC	HT
1-30	1-30	1-30	1-30	1-30	1-30	1-30	1-30
1	400	SPARE	SPARE	1			
2	1000	UNIT VENT. B.S.A	UNIT VENT.	2			
3	500	SPARE	SPARE	3			
4	500	SPARE	SPARE	4			
5	500	SPARE	SPARE	5			
6	500	SPARE	SPARE	6			
7	500	SPARE	SPARE	7			
8	500	SPARE	SPARE	8			
9	500	SPARE	SPARE	9			
10	500	SPARE	SPARE	10			
11	500	SPARE	SPARE	11			
12	500	SPARE	SPARE	12			
13	500	SPARE	SPARE	13			
14	500	SPARE	SPARE	14			
15	500	SPARE	SPARE	15			
16	500	SPARE	SPARE	16			
17	500	SPARE	SPARE	17			
18	500	SPARE	SPARE	18			
19	500	SPARE	SPARE	19			
20	500	SPARE	SPARE	20			
21	500	SPARE	SPARE	21			
22	500	SPARE	SPARE	22			
23	500	SPARE	SPARE	23			
24	500	SPARE	SPARE	24			
25	500	SPARE	SPARE	25			
26	500	SPARE	SPARE	26			
27	500	SPARE	SPARE	27			
28	500	SPARE	SPARE	28			
29	500	SPARE	SPARE	29			
30	500	SPARE	SPARE	30			
31	500	SPARE	SPARE	31			
32	500	SPARE	SPARE	32			
33	500	SPARE	SPARE	33			
34	500	SPARE	SPARE	34			
35	500	SPARE	SPARE	35			
36	500	SPARE	SPARE	36			
37	500	SPARE	SPARE	37			
38	500	SPARE	SPARE	38			
39	500	SPARE	SPARE	39			
40	500	SPARE	SPARE	40			
41	500	SPARE	SPARE	41			
42	500	SPARE	SPARE	42			
SUB-TOTAL				1100	1100	1100	1100

VOLTS 120/208/240/480 MAIN 20/30
 FEEDER 4#12 AWG CU MTG FLUSH*
 BUS 100

LOAD SUMMARY
 LIGHTING _____
 RECEPTACLE _____
 HEATING _____
 MOTOR _____
 TOTAL _____

SYSTEM SHORT CIRCUIT RATING (SYM) TOTAL _____

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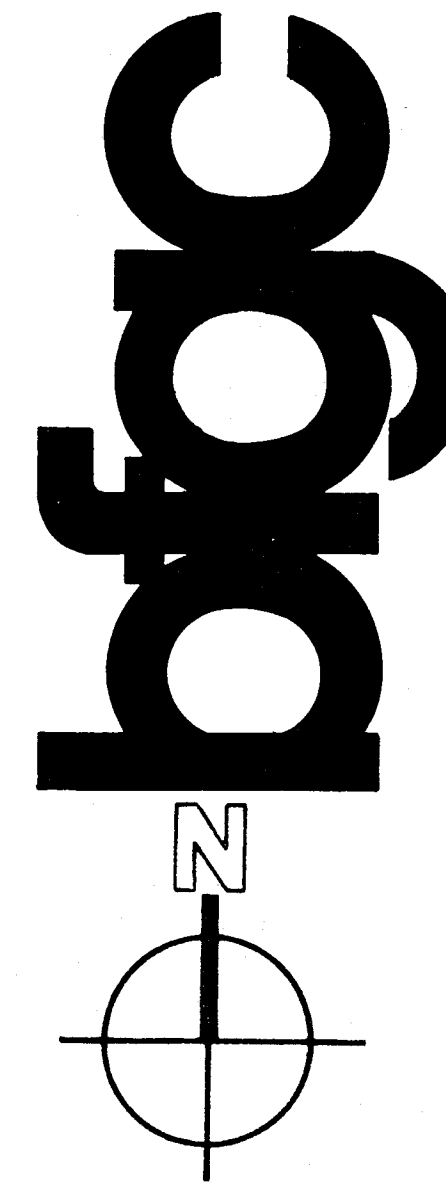
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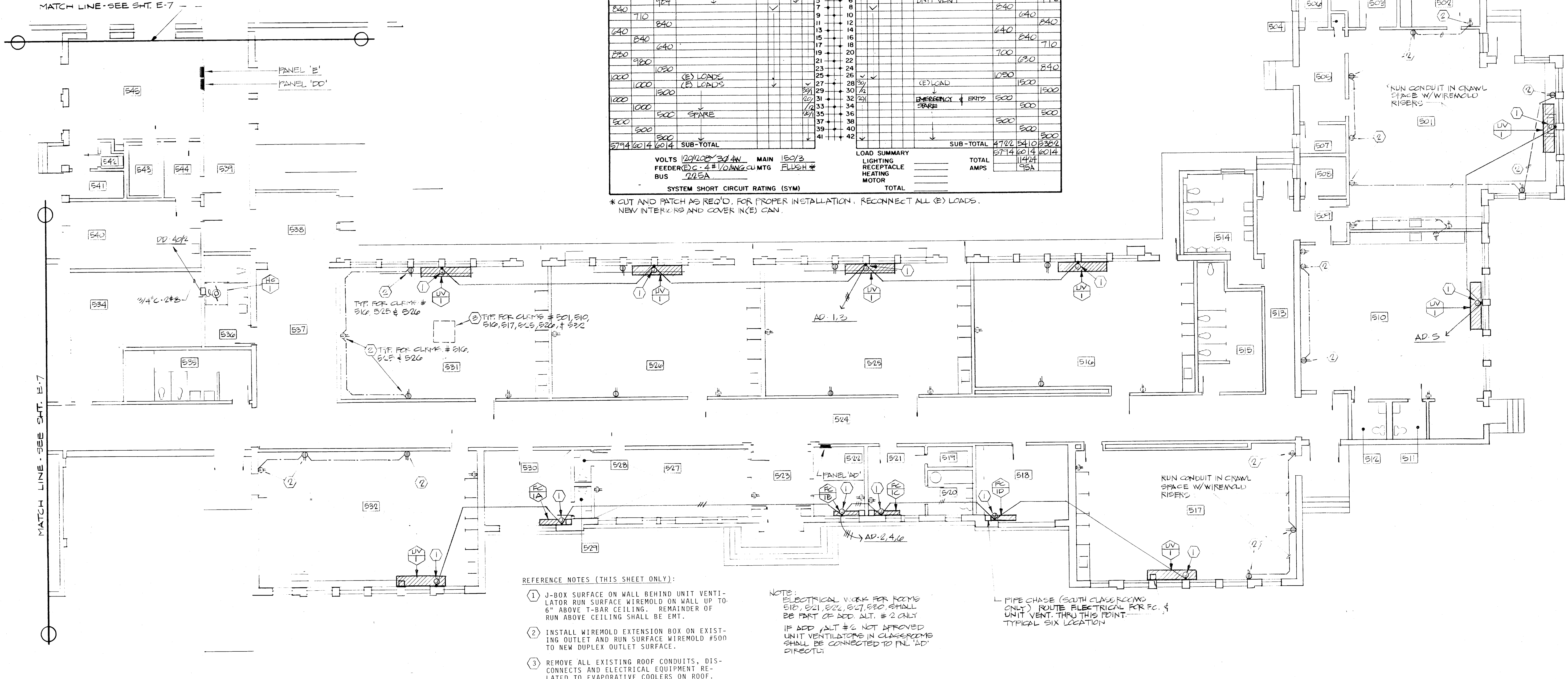
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POWER FLOOR PLANS - BLDGS. # 100, 200, 300, 400 AND PNL. SCHEDULES
 HORACE MANN MODERNIZATION
 BAKERSFIELD CITY SCHOOL DISTRICT
 2710 NILES AVENUE
 BAKERSFIELD, CALIFORNIA 93307

job 87-167
 date FEB 87

sheet 5





CIRCUIT WATTAGE	USE	LOAD-TYPE	CB	CIRCUIT WATTAGE	USE	LOAD-TYPE	CB
0A 0B 0C		LT RC HT MO		0A 0B 0C		LT RC HT MO	
924	UNIT VENT	LT	3	494	UNIT VENT	LT	3
710	UNIT VENT	LT	4	840	FAN COIL	LT	4
840	UNIT VENT	LT	5	640	UNIT VENT	LT	5
640			6	840			6
840			7	700			7
840			8	640			8
700			9	640			9
840			10	1050			10
840			11	1500			11
840			12	800			12
840			13	800			13
840			14	800			14
840			15	800			15
840			16	800			16
840			17	800			17
840			18	800			18
840			19	800			19
840			20	800			20
840			21	800			21
840			22	800			22
840			23	800			23
840			24	800			24
840			25	800			25
840			26	800			26
840			27	800			27
840			28	800			28
840			29	800			29
840			30	800			30
840			31	800			31
840			32	800			32
840			33	800			33
840			34	800			34
840			35	800			35
840			36	800			36
840			37	800			37
840			38	800			38
840			39	800			39
840			40	800			40
840			41	800			41
840			42	800			42
SUB-TOTAL				4700	8400	2300	

BUILDING 500 FLOOR PLAN - POWER

1/8"=1'-0"

REFERENCE NOTES (THIS SHEET ONLY):
 1 J-BOX SURFACE ON WALL BEHIND UNIT VENTILATOR RUN SURFACE WIREMOULD ON WALL UP TO 6" ABOVE T-BAR CEILING. REMAINDER OF RUN ABOVE CEILING SHALL BE EMT.
 2 INSTALL WIREMOULD EXTENSION BOX ON EXISTING OUTLET AND RUN SURFACE WIREMOULD #500 TO NEW DUPLEX OUTLET SURFACE.
 3 REMOVE ALL EXISTING ROOF CONDUITS, DISCONNECTS AND ELECTRICAL EQUIPMENT RELATED TO EVAPORATIVE COOLERS ON ROOF.

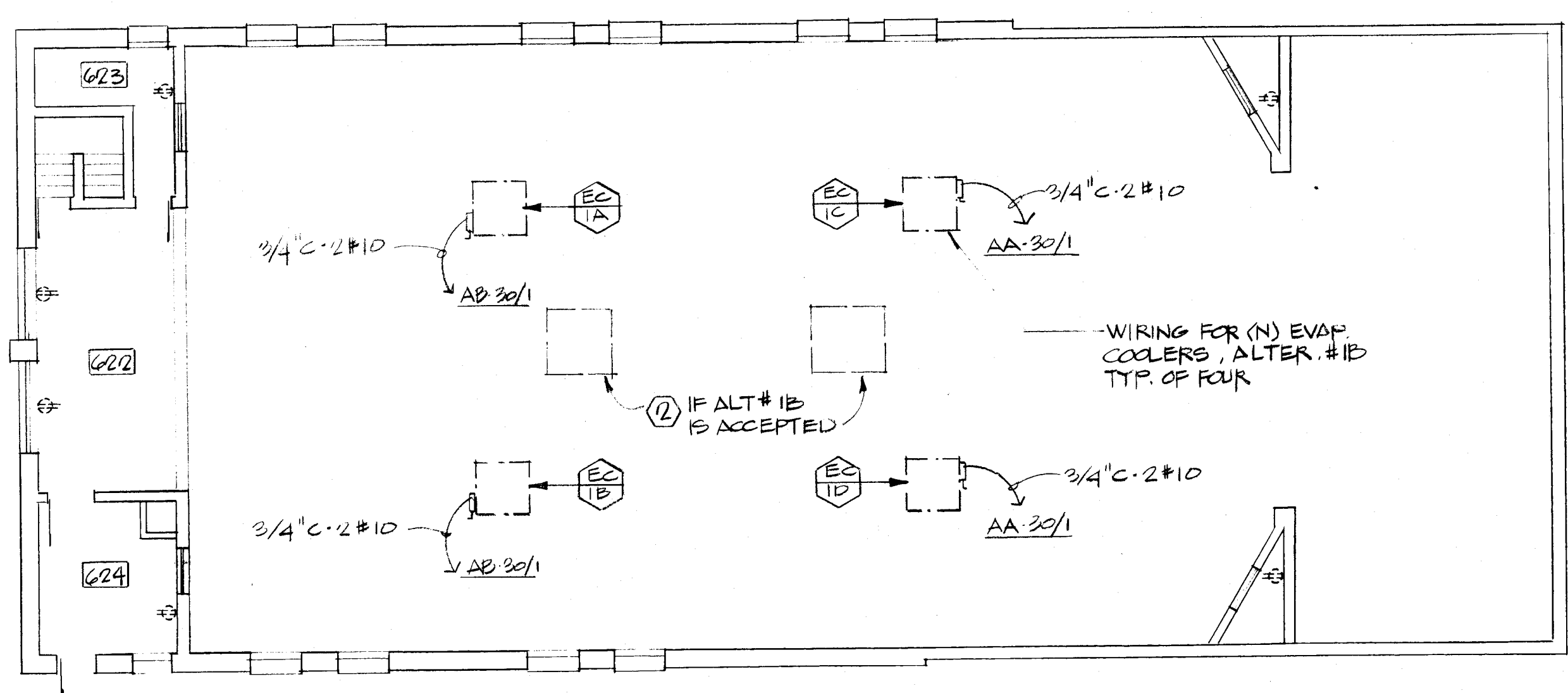
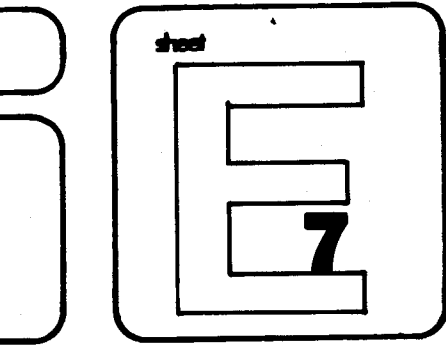
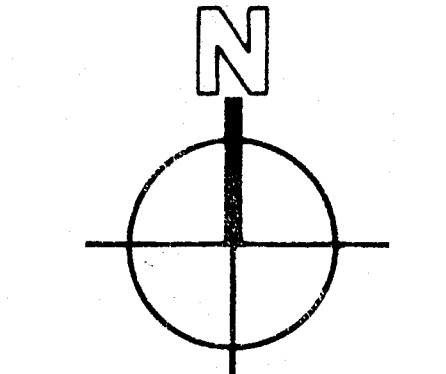
CIRCUIT WATTAGE	USE	LOAD-TYPE	CB	CIRCUIT WATTAGE	USE	LOAD-TYPE	CB
0A 0B 0C		LT RC HT MO		0A 0B 0C		LT RC HT MO	
900	LEAD	LT	1	900	LEAD	LT	1
900			2	900			2
900			3	900			3
900			4	900			4
900			5	900			5
900			6	900			6
900			7	900			7
900			8	900			8
900			9	900			9
900			10	900			10
900			11	900			11
900			12	900			12
900			13	900			13
900			14	900			14
900			15	900			15
900			16	900			16
900			17	900			17
900			18	900			18
900			19	900			19
900			20	900			20
900			21	900			21
900			22	900			22
900			23	900			23
900			24	900			24
900			25	900			25
900			26	900			26
900			27	900			27
900			28	900			28
900			29	900			29
900			30	900			30
900			31	900			31
900			32	900			32
900			33	900			33
900			34	900			34
900			35	900			35
900			36	900			36
900			37	900			37
900			38	900			38
900			39	900			39
900			40	900			40
900			41	900			41
900			42	900			42
SUB-TOTAL				3700	3700	3700	

CIRCUIT WATTAGE	USE	LOAD-TYPE	CB	CIRCUIT WATTAGE	USE	LOAD-TYPE	CB
0A 0B 0C		LT RC HT MO		0A 0B 0C		LT RC HT MO	
1000	LEAD	LT	1	1000	LEAD	LT	1
1000			2	1000			2
1000			3	1000			3
1000			4	1000			4
1000			5	1000			5
1000			6	1000			6
1000			7	1000			7
1000			8	1000			8
1000			9	1000			9
1000			10	1000			10
1000			11	1000			11
1000			12	1000			12
1000			13	1000			13
1000			14	1000			14
1000			15	1000			15
1000			16	1000			16
1000			17	1000			17
1000			18	1000			18
1000			19	1000			19
1000			20	1000			20
1000			21	1000			21
1000			22	1000			22
1000			23	1000			23
1000			24	1000			24
1000			25	1000			25
1000			26	1000			26
1000			27	1000			27
1000			28	1000			28
1000			29	1000			29
1000			30	1000			30
1000			31	1000			31
1000			32	1000			32
1000			33	1000			33
1000			34	1000			34
1000			35	1000			35
1000			36	1000			36
1000			37	1000			37
1000			38	1000			38
1000			39	1000			39
1000			40	1000			40
1000			41	1000			41
1000			42	1000			42
SUB-TOTAL				4800	4800	4800	

CIRCUIT WATTAGE	USE	LOAD-TYPE	CB	CIRCUIT WATTAGE	USE	LOAD-TYPE	CB
0A 0B 0C		LT RC HT MO		0A 0B 0C		LT RC HT MO	
240	LEAD	LT	1	240	LEAD	LT	1
840			2	840			2
840			3	840			3
840			4	840			4
840			5	840			5
840			6	840			6
840			7	840			7
840			8	840			8
840			9	840			9
840			10	840			10
840			11	840			11
840			12	840			12
840			13	840			13
840			14	840			14
840			15	840			15
840			16	840			16
840			17	840			17
840			18	840			18
840			19	840			19
840			20	840			20
840			21	840			21
840			22	840			22
840			23	840			23
840			24	840			24
840			25	840			25
840			26	840			26
840			27	840			27
840			28	840			28
840			29	840			29
840			30	840			30
840			31	840			31
840			32	840			32
840			33	840			33
840			34	840			34
840			35	840			35
840			36	840			36
840			37	840			37
840			38	840			38
840			39	840			39
840			40	840			40
840			41	840			41
840			42	840			42
SUB-TOTAL				2940	2940	2940	

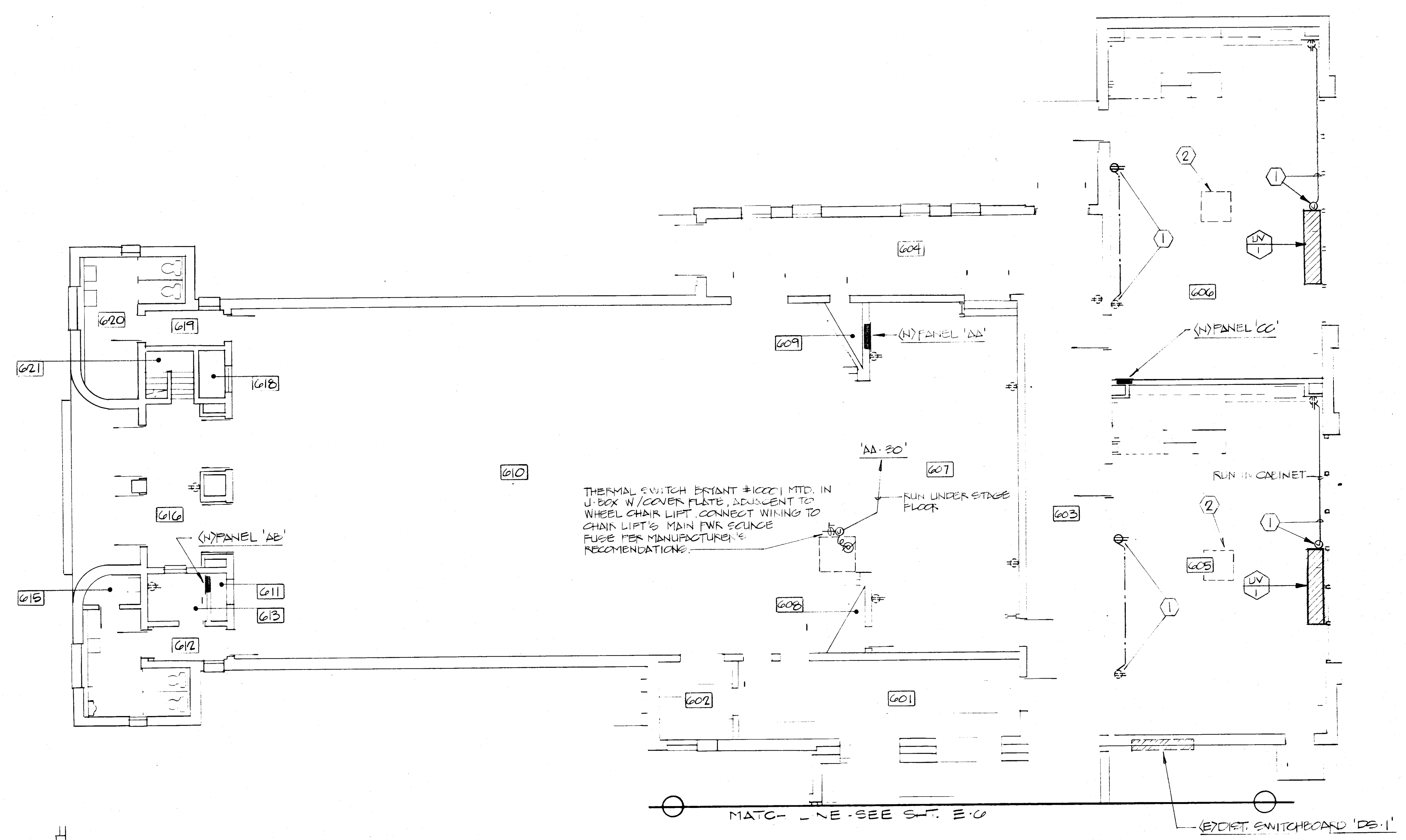
*MTC, INCL. (E) PANEL CAN IF APPLICABLE. OTHERWISE CUT AND PATCH AS REQ'D FOR PROPER INSTALLATION. RECONNECT ALL (E) LOADS.

APPROVED			ELECTRICAL ENGINEER INTERSTATE ENGINEERING, INC. <small>14046 EAST VALLEY AVENUE, SUITE 100, BAKERSFIELD, CALIFORNIA 93312</small>	C. 3132 C. 3269 *C. 6564 DR GARNAL C. 8021 C. 8702 © COPYRIGHTED 1987	bfgc inc. architects planners <small>31 SOUTH REAL ROAD BOX 9698 BAKERSFIELD CALIFORNIA 93309 805 832 8122</small>	POWER FLOOR PLAN - BUILDING 500 & PANEL SCHEDULES HORACE MANN MODERNIZATION BAKERSFIELD CITY SCHOOL DISTRICT 2710 NILES AVENUE BAKERSFIELD, CALIFORNIA 93307	job 07-127 date FEB 87	
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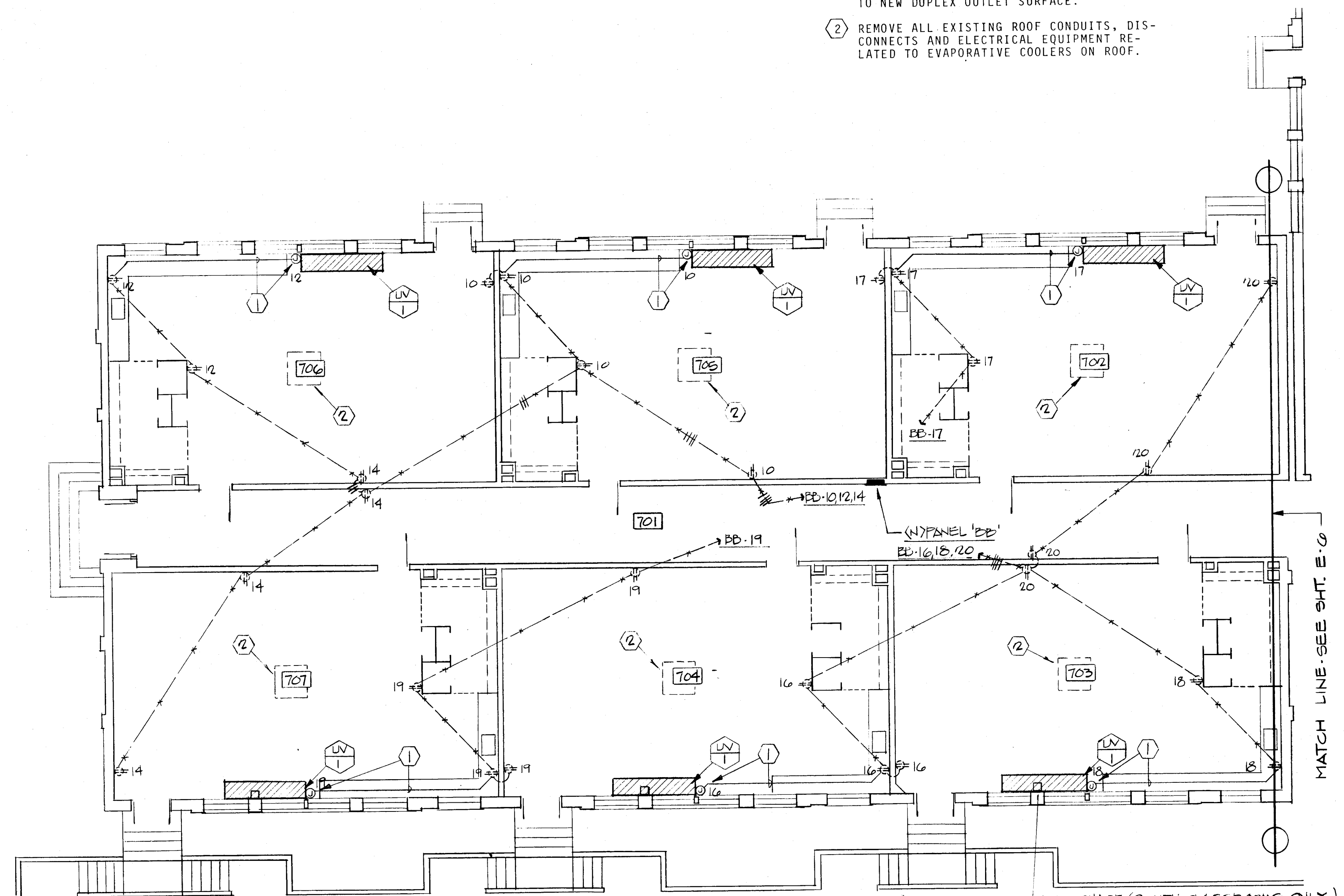


**BUILDING 600
SECOND FLOOR**

- REFERENCE NOTES (THIS SHEET ONLY):
- ① INSTALL WIREMOLD EXTENSION BOX ON EXISTING OUTLET AND RUN SURFACE WIREMOLD #500 TO NEW DUPLEX OUTLET SURFACE.
 - ② REMOVE ALL EXISTING ROOF CONDUITS, DISCONNECTS AND ELECTRICAL EQUIPMENT RELATED TO EVAPORATIVE COOLERS ON ROOF.



BUILDING 600



BUILDING 700

FLOOR PLANS - POWER

1/8" = 1'-0"

PANEL 'AA' (BLDG. 600) ALTER #1B TYPE NROD (B)

CIRCUIT	WATTAGE	USE	LOAD-TYPE	ALTER #	TYPE	CIRCUIT	WATTAGE	USE	LOAD-TYPE	ALTER #	TYPE			
NO.	Ø A	Ø B	Ø C	LT	RC	HT	MT	Ø A	Ø B	Ø C	LT	RC	HT	MT
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
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21														
22														
23														
24														
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26														
27														
28														
29														
30														
31														
32														
33														
34														
35														
36														
37														
38														
39														
40														
41														
42														
SUB-TOTAL								5,140	5,420	4,900				
LOAD SUMMARY								TOTAL						
VOLTS 120/208/240V MAIN 100% LIGHTING								TOTAL						
FEEDER 100% #12 AWG CU MTG FUSE # RECEPTACLE								AMPS						
BUS 100% MOTOR								TOTAL						
SYSTEM SHORT CIRCUIT RATING (SYM)								TOTAL						

PANEL 'CC' (BLDG. 600) TYPE NROD (B)

CIRCUIT	WATTAGE	USE	LOAD-TYPE	ALTER #	TYPE	CIRCUIT	WATTAGE	USE	LOAD-TYPE	ALTER #	TYPE			
NO.	Ø A	Ø B	Ø C	LT	RC	HT	MT	Ø A	Ø B	Ø C	LT	RC	HT	MT
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
32														
33														
34														
35														
36														
37														
38														
39														
40														
41														
42														
SUB-TOTAL								2,400	2,400	2,400				
LOAD SUMMARY								TOTAL						
VOLTS 120/208/240V MAIN 100% LIGHTING								TOTAL						
FEEDER 100% #12 AWG CU MTG FUSE # RECEPTACLE								AMPS						
BUS 100% MOTOR								TOTAL						
SYSTEM SHORT CIRCUIT RATING (SYM)								TOTAL						

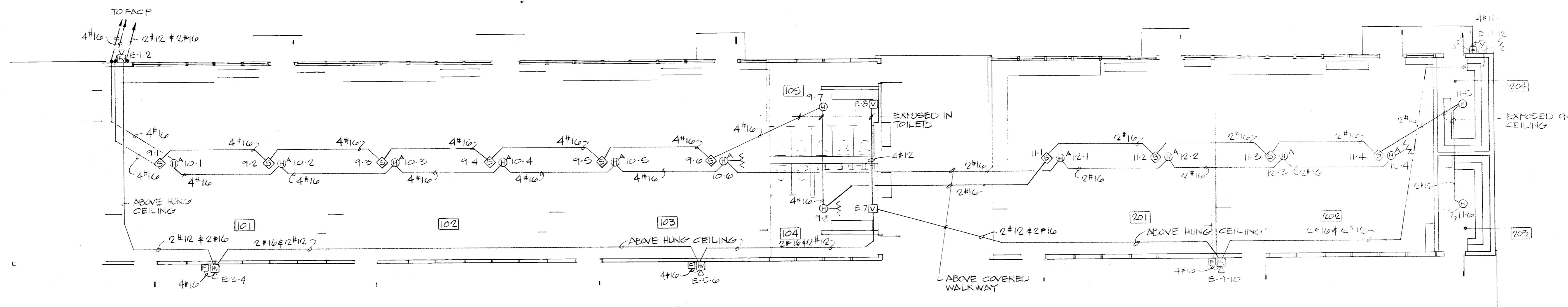
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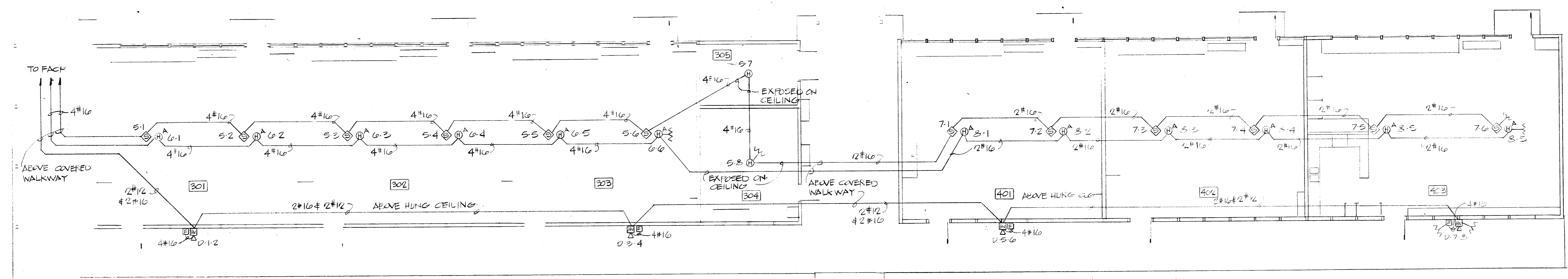
POWER FLOOR PLANS - BLDGS. 600/700 & PANEL SCHEDULES
HORACE MANN MODERNIZATION
BAKERSFIELD CIY SCHOOL DISTRICT
2710 NILES AVENUE
BAKERSFIELD, CALIFORNIA 93307

DATE: 2-7-1977
DATE: 1 FEB 89



BUILDING 100

BUILDING 200



BUILDING 300

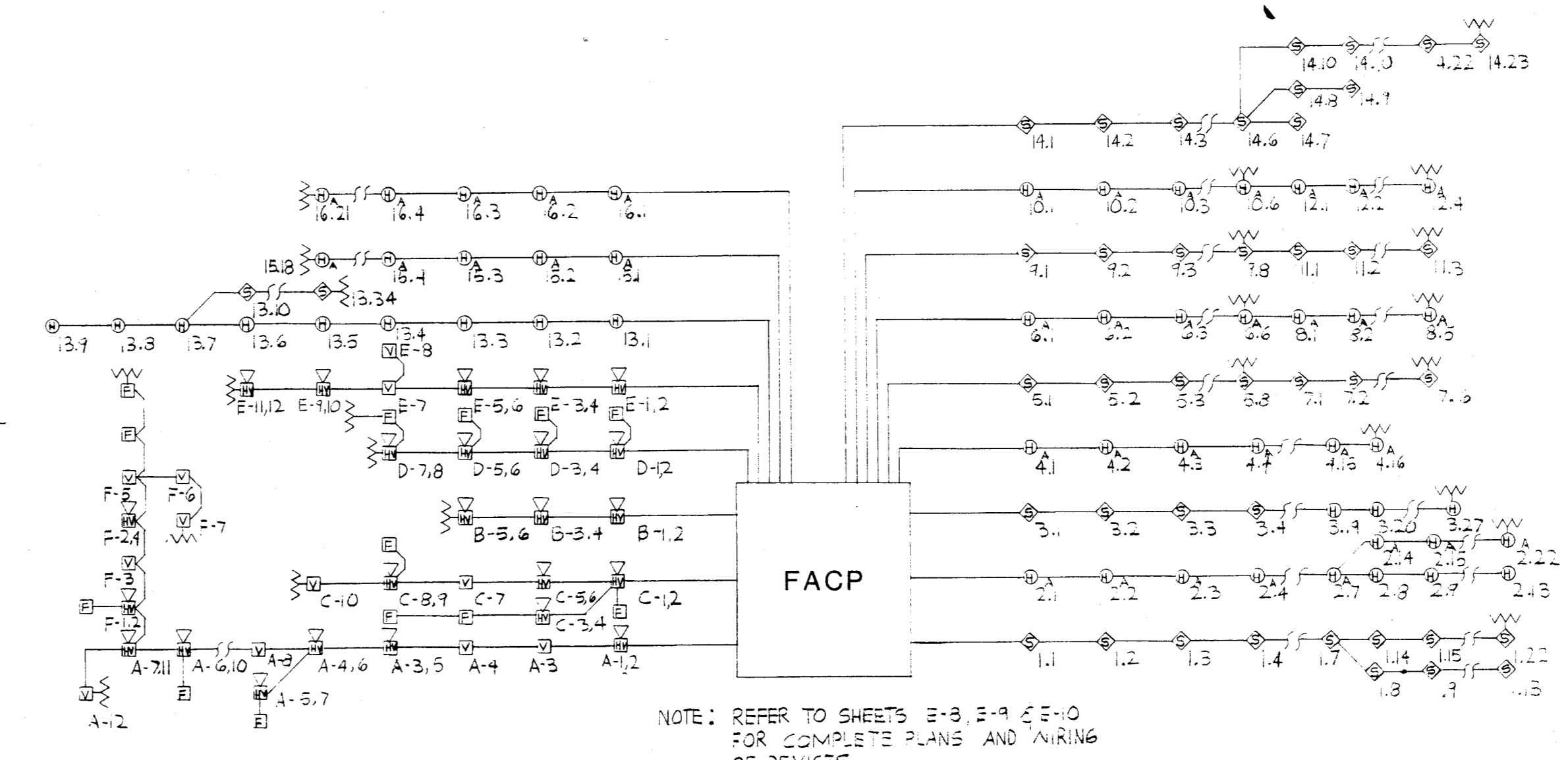
BUILDING 400

MATCH LINE - SEE SHIT. E-7

FLOOR PLANS - FIRE ALARM

1/8" = 1'-0"

FIRE ALARM SYSTEM NOTES: BASE BID SHALL INCLUDE FIRE ALARM HORNS AND PULL STATIONS AND ALL NECESSARY WIRING. ALTERNATE BID SHALL INCLUDE FULL FIRE ALARM DETECTION AS SHOWN AND HORNS AND ALL NECESSARY WIRING - NO PULL STATIONS.
(SEE B-1 NOTE G)



NOTE: REFER TO SHEETS E-8, E-9, E-10 FOR COMPLETE PLANS AND WIRING OF DEVICES.

FIRE ALARM RISER DIAGRAM

NO SCALE

approved

INTERSTATE ENGINEERING, INC.
12 EAST WALNUT AVENUE, SUITE 100, ANAHEIM, CA 92805

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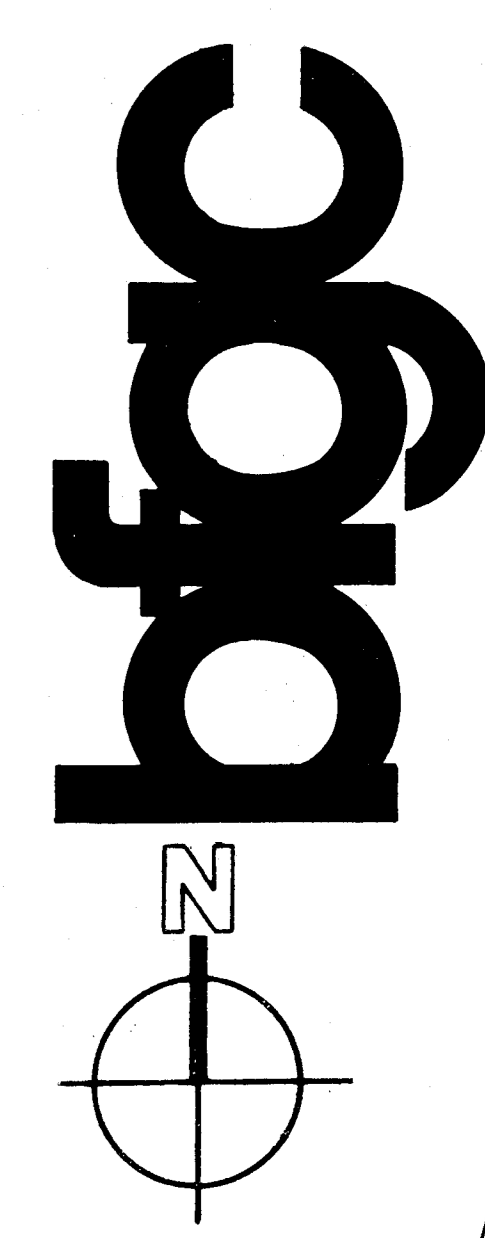
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FIRE ALARM FLOOR PLANS - BUILDINGS 100, 200, 300 & 400
HORACE MANN MODERNIZATION
BAKERSFIELD CIY SCHOOL DISTRICT
2710 NILES AVENUE
BAKERSFIELD, CALIFORNIA 93307

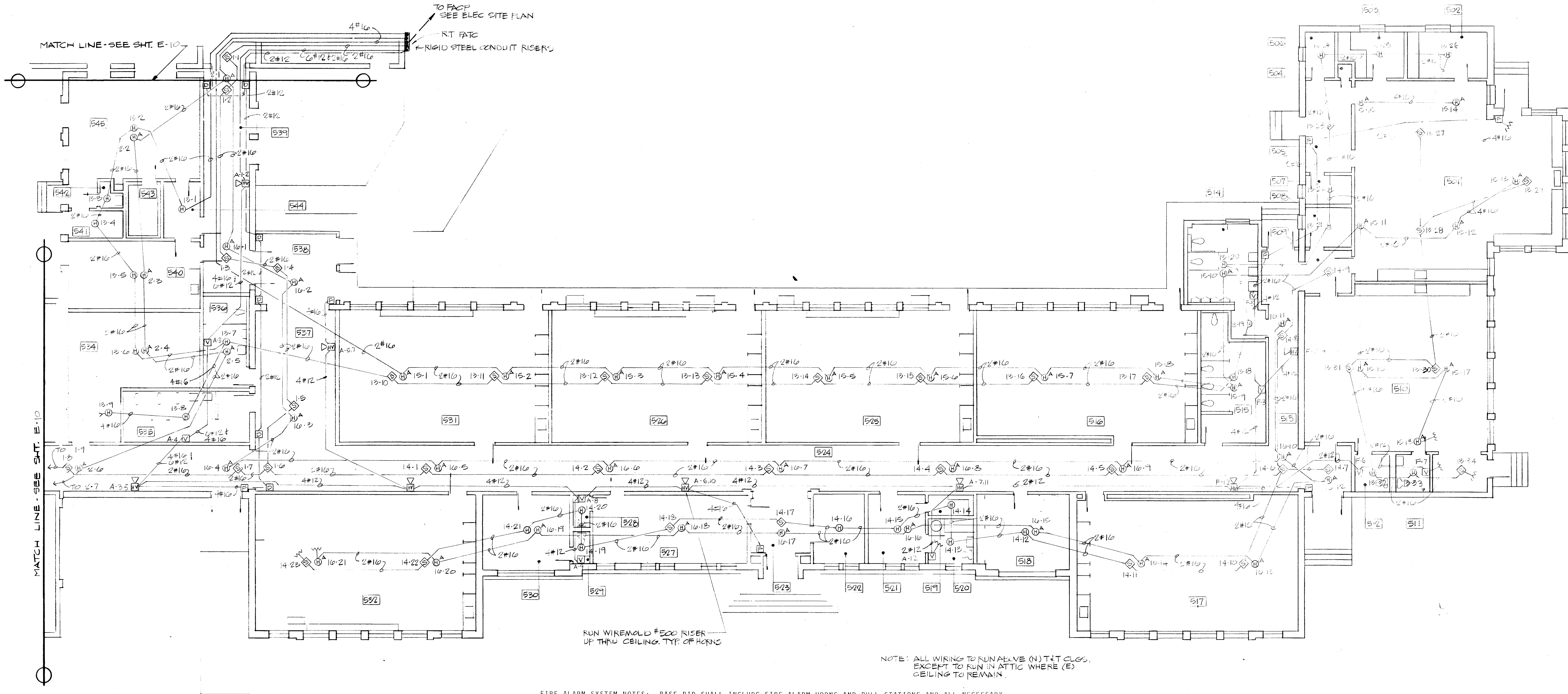
job 87-127
date 1 FEB 89

sheet 8

architects - planners



MATCH LINE - SEE SHT. E-11

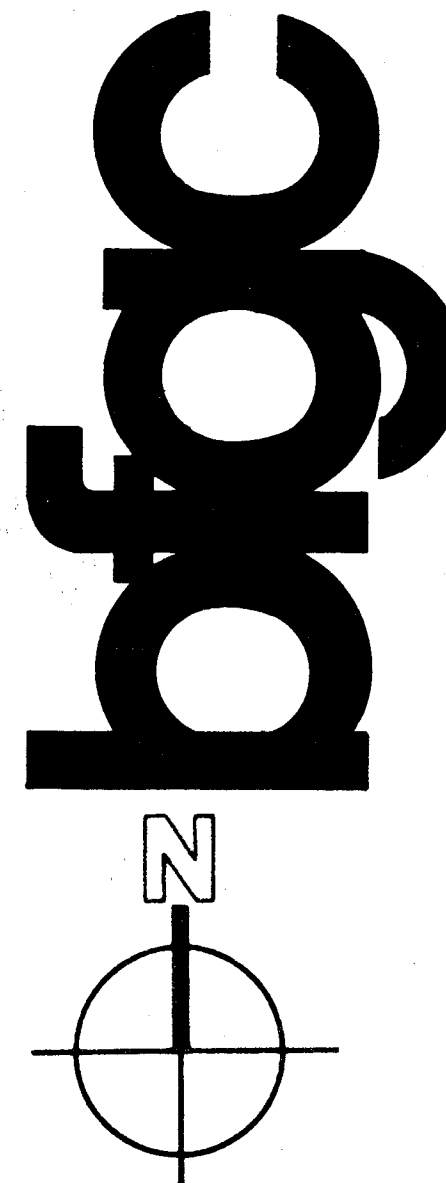


FIRE ALARM SYSTEM NOTES: BASE BID SHALL INCLUDE FIRE ALARM HORNS AND PULL STATIONS AND ALL NECESSARY WIRING. ALTERNATE BID SHALL INCLUDE FULL FIRE ALARM DETECTION AS SHOWN AND HORNS AND ALL NECESSARY WIRING - NO PULL STATIONS. (SEE E-1 NOTE G)

BUILDING 500 FLOOR PLAN - FIRE ALARM

1/8"=1'-0"

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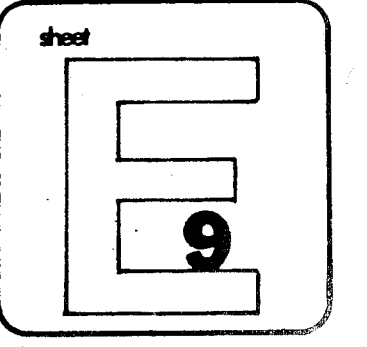
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107 EAST MELBOURNE AVENUE, BAKERSFIELD, CALIFORNIA 93309-1000

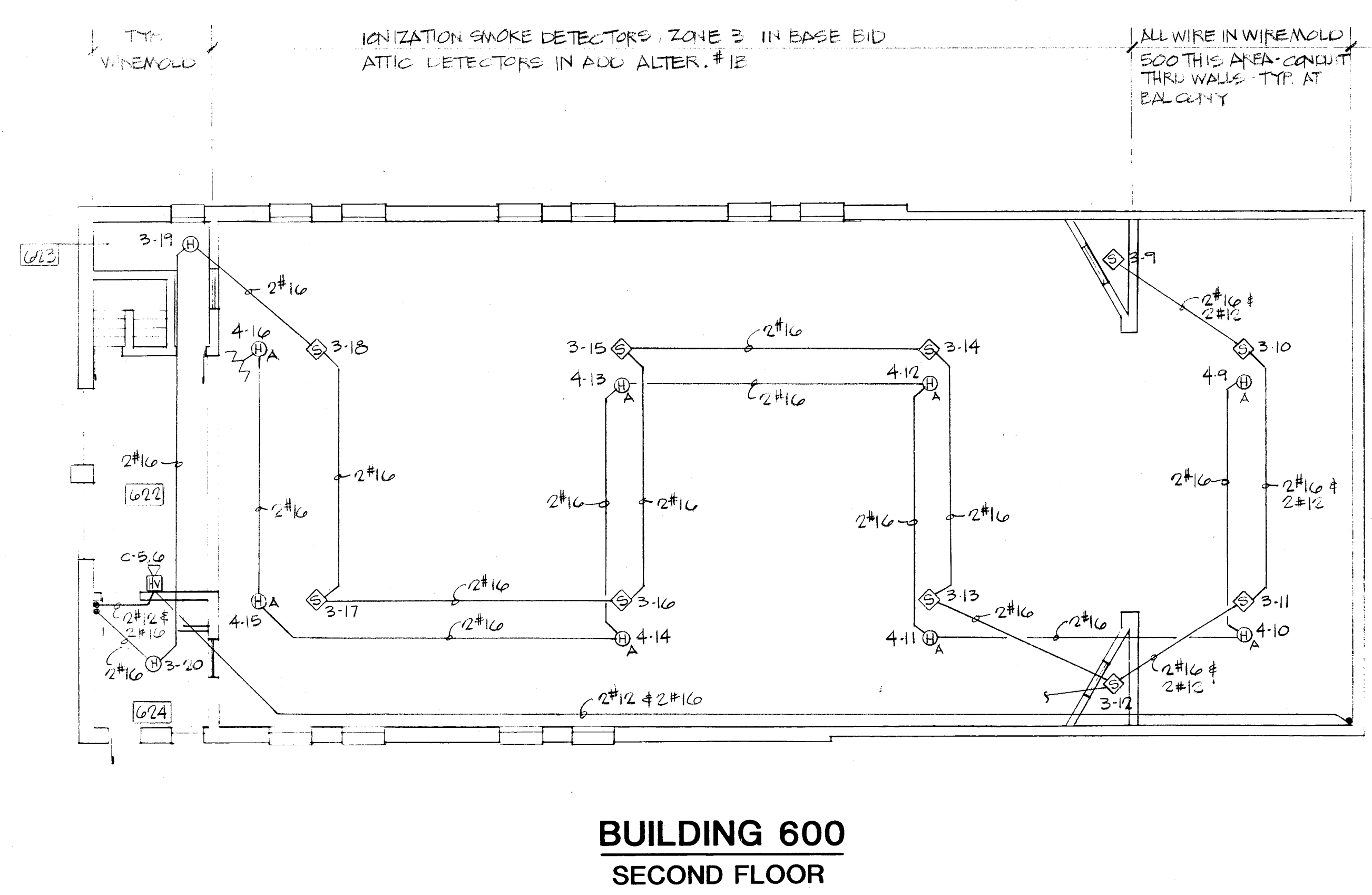
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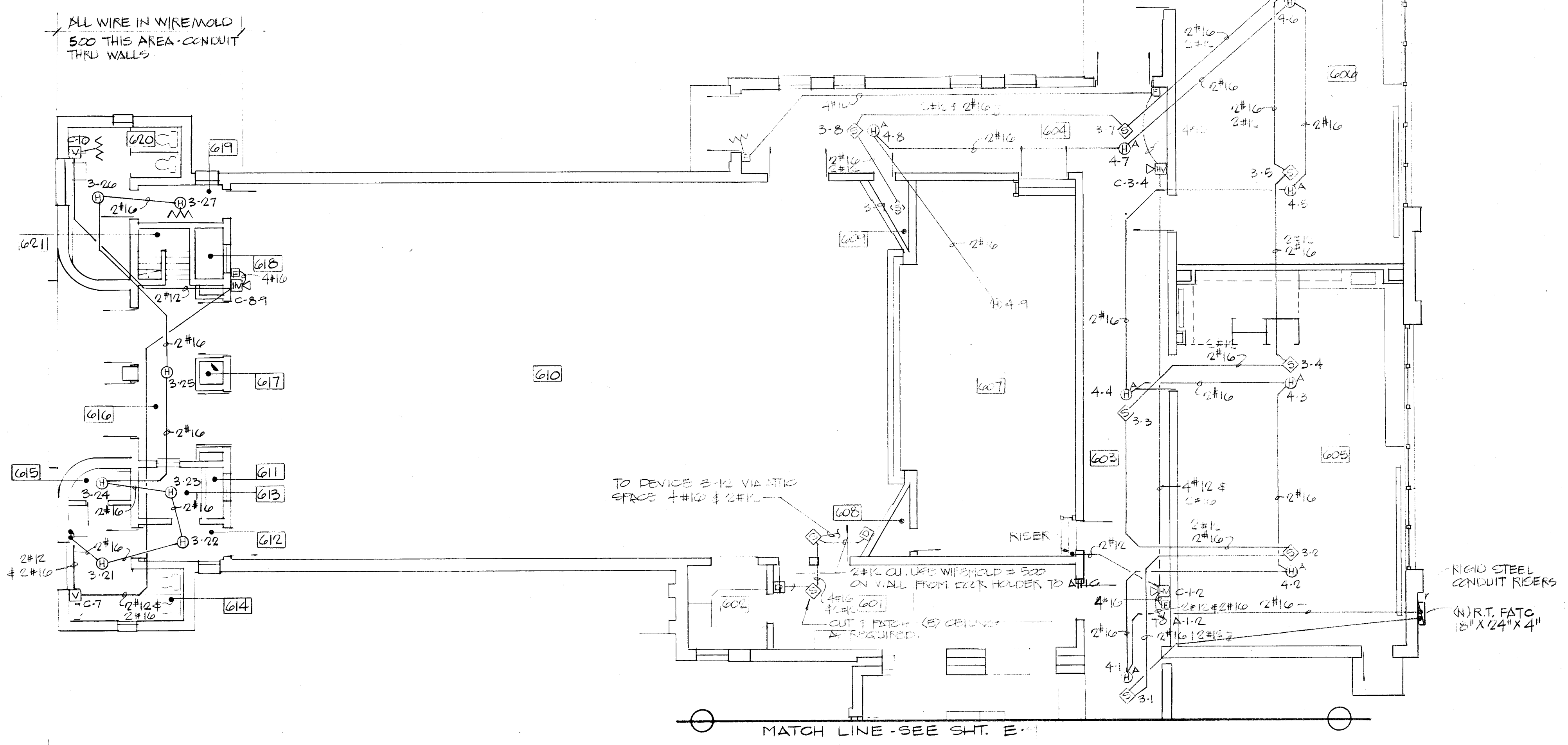
FIRE ALARM FLOOR PLAN - BUILDING 500
HORACE MANN MODERNIZATION
 BAKERSFIELD CITY SCHOOL DISTRICT
 2710 NILES AVENUE
 BAKERSFIELD, CALIFORNIA 93307

job 87-127
 date 1 Feb 87



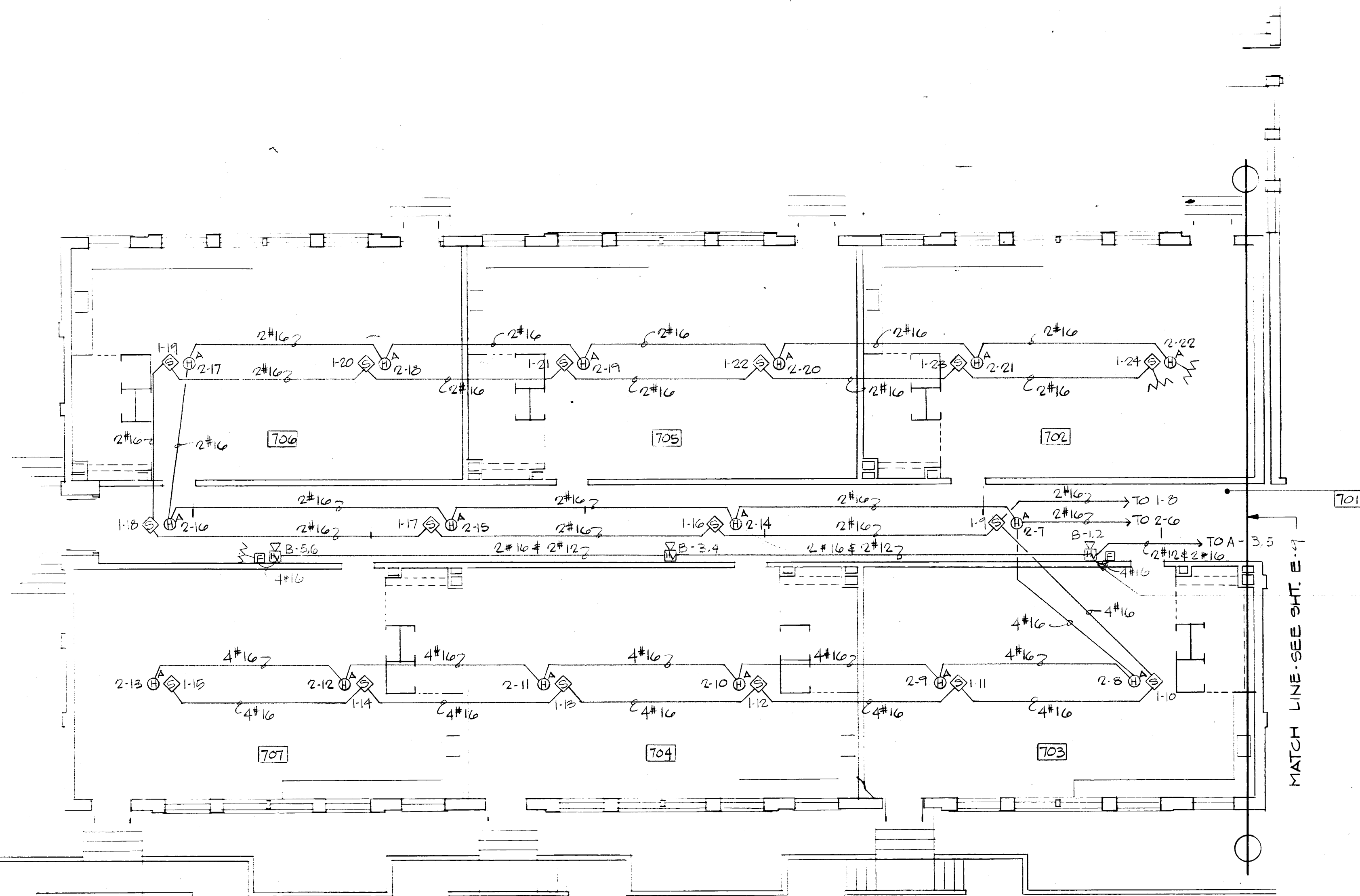


**BUILDING 600
SECOND FLOOR**



BUILDING 600

☐ MAGNETIC COIL HOLDERS - DETERMINE FINAL LOCATION TO BE SET IN FIELD
 FUNCTIONALITY # SEE #2
 CEN#1 # SEE #27-1
 TYPICAL CPALL HOLDERS - THIS PROJECT.



BUILDING 700

CIRCUIT WATTAGE		USE	LOAD-TYPE		CB	LOAD-TYPE		USE	CIRCUIT WATTAGE	
Ø A	Ø C		LT	RC		HT	HT	HT	Ø A	Ø C
3-7	2-0	(E) 1-2-3			1	2	3	(E) 1-2-3	1-0	2-0
4-7	2-0				5	6			1-0	2-0
9-2	2-0				7	8			1-0	2-0
					9	10				
					11	12				
					13	14				
					15	16				
					17	18				
					19	20				
					21	22				
					23	24				
					25	26				
					27	28				
					29	30				
SUB-TOTAL									SUB-TOTAL	
1100									1100	
VOLTS 120/208/240V		MAIN							TOTAL	
FEEDER (E) 3-1/2\"/>										

* CUT AND PATCH AS REQUIRED FOR TYPICAL INSTALLATION

FLOOR PLANS - FIRE ALARM

1/8" = 1'-0"

FIRE ALARM SYSTEM NOTES: BASE BID SHALL INCLUDE FIRE ALARM HORNS AND PULL STATIONS AND ALL NECESSARY WIRING. ALTERNATE BID SHALL INCLUDE FULL FIRE ALARM DETECTION AS SHOWN AND HORNS AND ALL NECESSARY WIRING - NO PULL STATIONS. (SEE #2, NOTE C)

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FIRE ALARM FLOOR PLANS - BUILDINGS 600 & 700
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 BAKERSFIELD, CALIFORNIA 93307

job 87-127
 date FEB 11

10