

GENERAL STRUCTURAL NOTES

STRUCTURAL DESIGN DATA

1. LIVE LOADS:
- | | |
|------------------------|--|
| SNOW | 45 PSF |
| ACCESS FLOORS, OFFICES | 50 PSF AND 20 PSF PARTITION |
| REST ROOMS | 50 PSF |
| STAIRS, CORRIDORS | 100 PSF |
| ASSEMBLY AREAS | 100 PSF |
| LIGHT STORAGE | 125 PSF |
| MECHANICAL ROOMS | 125 PSF UNLESS INDIVIDUAL MECHANICAL EQUIPMENT GOVERNS |
2. WIND LOADS:
IN ACCORDANCE WITH THE 1988 UBC, BASIC WIND SPEED = 70 MPH
3. SEISMIC:
IN ACCORDANCE WITH THE REQUIREMENTS OF THE 1988 EDITION OF THE UBC (ZONE 3).
- LATERAL FORCES ARE TRANSFERRED TO THE BRACED FRAMES BY A FLEXIBLE DIAPHRAGM. RESULTING FRAME FORCES ARE CALCULATED BY THE TRIBUTARY AREA METHOD.

FOUNDATION

1. THE FOUNDATION DESIGN WAS BASED ON A GEOTECHNICAL STUDY PREPARED FOR LIVINGSTON SLONE, INC., BY SHANNON & WILSON, INC., 2055 HILL ROAD, FAIRBANKS, ALASKA 99707-0843 (907)-479-0600.
2. THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE (1) CONTINUOUS PLACEMENT.
3. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL SEASONAL FROST HAS THAWED OR BEEN REMOVED.
4. ALLOWABLE SOIL BEARING PRESSURE IS 3500 PSF FOR A FOOTING DEPTH OF 12 INCHES AND 5000 PSF AT 24 INCHES.

STRUCTURAL CONCRETE NOTES

1. ALL CAST-IN-PLACE CONCRETE SHALL HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTHS OF 3,000 PSI.
2. ALL CONCRETE SHALL CONTAIN AN APPROVED WATER REDUCING, PLASTICIZING ADMIXTURE. ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER SHALL CONTAIN AN APPROVED AIR-ENTRAINING ADMIXTURE.
3. ALL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615, GRADE 60. FOR #3 AND #4 BARS, GRADE 40 BARS MAY BE SUBSTITUTED UPON APPROVAL OF OWNER'S REPRESENTATIVE.
4. MAXIMUM SLUMP SHALL BE 4 INCHES. MAXIMUM SIZE COARSE AGGREGATE SIZE SHALL BE 3/4 INCH FOR ALL CONCRETE EXCEPT FOOTINGS. THE MAXIMUM COARSE AGGREGATE SIZE FOR FOOTINGS SHALL BE 1-1/2 INCH.
5. MINIMUM CONCRETE COVER SHALL BE:
- a. 3" FOR CONCRETE CAST AGAINST THE EARTH.
 - b. 1 1/2" FOR BARS EXPOSED TO WEATHER AND BEAMS AND COLUMNS.
6. DOWELS SHALL MATCH NUMBER AND SPACING OF MAIN REINFORCING. SEE SCHEDULE FOR SPLICE LENGTHS.
7. SPECIAL INSPECTION, PER UBC SECTION 306, IS REQUIRED AT ALL PIERS, WALLS, AND ANCHOR BOLTS ASSOCIATED WITH THE BRACED FRAMES.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL, WIDE FLANGE BEAMS, CHANNELS, ANGLES, AND PLATES SHALL BE ASTM A36, UNLESS OTHERWISE NOTED. STRUCTURAL STEEL TUBING SHALL BE ASTM A500, GRADE B.
2. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325, TYPE N. ALL BOLTS SHALL BE 3/4 INCH DIAMETER UNLESS OTHERWISE NOTED.
3. ALL WELDING ELECTRODES SHALL BE E70XX.
4. ALL CONNECTIONS SHALL BE SIMPLE SHEAR CONNECTIONS USING HIGH-STRENGTH BOLTS IN BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN THE SHEAR PLANE IN SINGLE SHEAR, UNLESS OTHERWISE NOTED.
5. THE MINIMUM NUMBER OF BOLTS PER CONNECTION SHALL BE TWO (2).
6. ALL BEAMS, JOISTS AND TRUSSES SHALL BE ERECTED WITH THE NATURAL CAMBER UP. PROVIDE CAMBERS AS INDICATED ON THE DRAWINGS.
7. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
8. SPECIAL INSPECTION, PER UBC SECTION 306, IS REQUIRED FOR ALL FIELD WELDS AT BRACED FRAMES AND FOR ALL HIGH-STRENGTH BOLTING.

STRUCTURAL MASONRY NOTES

1. MATERIALS:
- a. HOLLOW LOAD BEARING CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-90, GRADE N, TYPE 1
 - b. MORTAR SHALL CONFORM TO ASTM C207, TYPE M.
 - c. GROUT USE TO FILL CELLS SHALL CONFORM WITH ASTM C476, AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI.
 - d. REINFORCING BARS FOR REINFORCED MASONRY SHALL CONFORM TO ASTM A615, GRADE 60.
2. VERTICAL CELLS TO BE FILLED WITH GROUT SHALL BE ALIGNED TO PROVIDE A CONTINUOUS UNOBSTRUCTED OPENING OF THE DIMENSIONS SHOWN ON THE PLANS. CELLS WHICH WILL CONTAIN VERTICAL REINFORCEMENT SHALL HAVE A MINIMUM TWO (2) INCH CLEAR OPENING.
3. GROUT SHALL BE PLACED IN MAXIMUM FOUR (4) FOOT LIFTS AND CONSOLIDATED IN PLACE BY VIBRATION TO INSURE COMPLETE FILLING OF THE CELLS. ALL CELLS CONTAINING REINFORCING BARS AND/OR ANCHOR BOLTS SHALL BE FULLY GROUTED.
4. REINFORCED MASONRY:
- a. ALL WALLS AND PIERS SHALL HAVE HORIZONTAL BOND BEAMS AT 48 INCH O.C. WITH ONE (1) NO. 5 BAR CONTINUOUS.
 - b. THE MINIMUM CLEAR DISTANCE BETWEEN PARALLEL BARS EXCEPT IN COLUMNS SHALL BE EQUAL TO 1-1/2 TIMES THE MAXIMUM AGGREGATE SIZE OR BAR DIAMETER WHICHEVER IS GREATEST.
 - c. VERTICAL REINFORCEMENT SHALL BE LAP SPICED A MINIMUM OF 30 BAR DIAMETERS WHERE REQUIRED.
 - d. ALL BARS SHALL BE COMPLETELY EMBEDDED IN MORTAR OR GROUT.
5. ALL CORNER BARS AND DOWELS SHALL BE OF EQUAL SIZE AND SPACING AS VERTICAL AND HORIZONTAL BARS.

STRUCTURAL TIMBER NOTES

1. MATERIALS:
- a1. SAWN LUMBER AND STUDS UNLESS OTHERWISE NOTED ON THE PLANS: GRADING RULES AGENCY BASED ON VISUALLY GRADED DIMENSION.
 - LUMBER: WWPA
 - SPECIES DOUGLAS FIR-LARCH
 - GRADE NO. 2 OR BETTER
 - MODULUS OF ELASTICITY, E 1,600,000 PSI
 - EXTREME FIBER IN BENDING, Fb 875 PSI
 - TENSION PARALLEL TO GRAIN, Ft 575 PSI
 - SHEAR PARALLEL TO GRAIN, Fv 95 PSI
 - COMPRESSION PERPENDICULAR TO GRAIN 625 PSI
 - COMPRESSION PARALLEL TO GRAIN, Fc 1,300 PSI
 - a2. SAWN LUMBER USED FOR 2x8 EXTERIOR WALL FRAMING AND STUDS: GRADING RULES AGENCY BASED ON VISUALLY GRADED DIMENSION.
 - LUMBER: WWPA
 - SPECIES HEM-FIR
 - GRADE NO. 2 OR BETTER
 - MODULUS OF ELASTICITY, E 1,300,000 PSI
 - EXTREME FIBER IN BENDING, Fb 850 PSI
 - TENSION PARALLEL TO GRAIN, Ft 500 PSI
 - SHEAR PARALLEL TO GRAIN, Fv 75 PSI
 - COMPRESSION PERPENDICULAR TO GRAIN 405 PSI
 - COMPRESSION PARALLEL TO GRAIN, Fc 1,250 PSI
 - b. WALL BOTTOM PLATES IN CONTACT WITH CONCRETE OR CMU: SPECIES: WESTERN RED CEDAR
 - GRADE: NO. 2
 - (OR REDWOOD, NO. 2, OPEN GRAIN)
 - MODULUS OF ELASTICITY: 1,000,000 PSI
 - MINIMUM WORKING STRESSES: (WET USE CONDITION)
 - EXTREME FIBER IN BENDING, Fb 700 PSI
 - TENSION PARALLEL TO GRAIN, Ft 425 PSI
 - COMPRESSION PARALLEL TO GRAIN, Fc 650 PSI
 - COMPRESSION PERPENDICULAR TO GRAIN, Fc 425 PSI
 - HORIZONTAL SHEAR, Fv 75 PSI
 - c. GLUE LAMINATED TIMBER: SPECIES: DF/HF
 - GRADE: 24 F-V5
 - MODULUS OF ELASTICITY: 1,700,000 PSI
 - MINIMUM WORKING STRESSES: (DRY USE CONDITION)
 - EXTREME FIBER IN BENDING, Fb 2,400 PSI
 - TENSION PARALLEL TO GRAIN, Ft 1,100 PSI
 - COMPRESSION PARALLEL TO GRAIN, Fc 1,450 PSI
 - COMPRESSION PERPENDICULAR TO GRAIN, Fc 650 PSI
 - HORIZONTAL SHEAR, Fv 155 PSI
 - d. PLYWOOD: SPECIES: DF
 - GRADE: STRUCTURAL I
 - FLOOR PLYWOOD SHALL BE APA-RATED STURD-I-FLOOR, EXPOSURE 1, 3/4 INCH THICK, T&G. FLOOR PLYWOOD SHALL BE USED FOR ALL ROOF AREAS LOCATED AT ELEVATION 12'-4-1/2" (SECOND FLOOR). ROOF PLYWOOD SHALL BE APA-RATED SHEATHING, EXTERIOR, 3/4 INCH THICK, T&G.
 - WALL PLYWOOD SHALL BE APA-RATED SHEATHING, 1/2 INCH THICK, EXTERIOR.
 - e. LAMINATED VENEER LUMBER: MODULUS OF ELASTICITY, E: 1,800,000 PSI
 - HORIZONTAL SHEAR, Fv 285 PSI
 - (perpendicular to the glue line)
 - EXTREME FIBER IN BENDING, Fb 2,600 PSI
 - COMPRESSION PERPENDICULAR TO GRAIN, Fc 750 PSI
 - (parallel to the glue line)

2. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL TIMBER MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
3. ALL NAILS SHALL BE COMMON WIRE NAILS. NAILING SHALL CONFORM TO TABLE 25-Q OF THE 1988 UNIFORM BUILDING CODE. ALL NAILS IN CONTACT WITH ALL-WEATHER-WOOD FRAMING SHALL BE STAINLESS STEEL. ALL NAILS USED IN EXTERIOR WALL AND ROOF FRAMING SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
4. STANDARD WASHERS SHALL BE USED UNDER ALL BOLT HEADS AND NUTS CONTACTING WOOD.
5. LAMINATED VENEER LUMBER CALLED FOR IN THE DRAWINGS "MICROLAM" HEADER STOCK AS MANUFACTURED BY "TRUS JOIST MACMILLAN" L.V.L. MANUFACTURED BY OTHER COMPANIES MAY BE SUBSTITUED FOR THOSE SPECIFIED PROVIDED THAT THEY ARE EQUAL OR GREATER IN STRENGTH THAN THOSE SPECIFIED.
6. TIMBER CONNECTORS CALLED FOR IN THE DRAWINGS ARE AS MANUFACTURED BY "SIMPSON STRONG-TIE CO., INC." ALL SPECIFIED FASTENERS MUST BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. ALL BOLTS USED IN TIMBER CONNECTORS SHALL BE STRUCTURAL QUALITY BOLTS EQUAL TO OR BETTER THAN ASTM A307. CONNECTORS MANUFACTURED BY OTHERS MAY BE SUBSTITUTED PROVIDED THAT THEY ARE OF EQUAL OR GREATER STRENGTH THAN THOSE SPECIFIED.
7. FLOOR DIAPHRAGMS SHALL BE FASTENED WITH 10d COMMON NAILS (DIAMETER = 0.148", LENGTH = 3") AT 6" O.C. ALONG SUPPORTED EDGES AND BRACED FRAME LINES. FIELD NAIL AT 10" O.C.
- ROOF DIAPHRAGMS SHALL BE FASTENED WITH 10d COMMON NAILS AT 6" O.C. ALONG SUPPORTED EDGES AND BRACED FRAME LINES. FIELD NAIL AT 12" O.C.
8. EXTERIOR WALLS ARE FRAMED WITH 2x8 STUDS AT 24 INCHES O.C.; SHEATH WITH 1/2 INCH PLYWOOD. NAIL WITH 8d COMMON NAILS ALONG PANEL EDGES; FIELD NAIL AT 12 INCHES O.C. BLOCK ALL EDGES.
9. ALL WOOD BEARING WALLS SHALL BE FRAMED IN COORDINATION WITH JOIST PLACEMENT SUCH THAT EACH JOIST IS DIRECTLY SUPPORTED BY A STUD.

ALL WEATHER WOOD (AWW)

1. ALL AWW PLYWOOD AND LUMBER MUST BE PRESSURE TREATED IN ACCORDANCE WITH THE TREATING AND DRYING REQUIREMENTS IN THE AMERICAN WOOD PRESERVERS BUREAU'S AWPB-FDN STANDARD. BELOW GRADE TIMBER FASTENERS OR FASTENERS IN CONTACT WITH AWW SHALL BE TYPE 304 OR TYPE 316 STAINLESS STEEL FASTENERS.

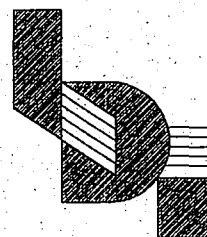
DEFINITIONS AND ABBREVIATIONS

O.C.	ON CENTER	E.W.	EACH WAY
B.F.	BRACED FRAME	A.B.	ANCHOR BOLT
E.J.	EXPANSION JOINT	T.S.E.	TOP OF STEEL
SIM.	SIMILAR	T.F.E.	TOP OF FOOTING ELEV.
TYP.	TYPICAL	F.F.E.	FINISH FLOOR ELEV.
COL.	COLUMN	ELEV.	ELEVATION
FTG.	FOOTING	SCHED.	SCHEDULE
ADDIT.	ADDITIONAL	REQD.	REQUIRED
STD.	STANDARD	JT.	JOINT
EMBED.	EMBEDMENT	CONTR.	CONTRACTOR
PERIM.	PERIMETER	MANUF.	MANUFACTURER
INFO.	INFORMATION	VERT.	VERTICAL
CLR.	CLEAR	HORIZ.	HORIZONTAL
CONT.	CONTINUOUS	GALV.	GALVANIZED
CONC.	CONCRETE	A.W.W.	ALL WEATHER WOOD
CMU	CONCRETE MASONRY UNIT	W/	WITH
P	PLATE	&	AND
@	AT	OPNG.	OPENING
NO..#	NUMBER	REINF.	REINFORCING
PSI	POUNDS PER SQUARE INCH	MIN.	MINIMUM
PSF	POUNDS PER SQUARE FOOT	MAX.	MAXIMUM
UBC	UNIFORM BUILDING CODE	GYP. BD.	GYPSTUM BOARD
MECH.	MECHANICAL	GLB	GLUE-LAMINATED BEAM
ELEV.	ELEVATION	F.O.S.	FACE OF STUD
NOM.	NOMINAL	T.C.E.	TOP OF CONCRETE ELEV.
C	CENTERLINE	ML	MICROLAM
BLKG.	BLOCKING	LVL	LAMINATED VENEER LUMBER
T & B	TOP AND BOTTOM	W/O	WITHOUT

RECORD
DRAWING

Stephen B. Baer
CITY ENGINEER, CITY OF FAIRBANKS

4/8/96
DATE



Loftus & Dailey, Inc.
structural engineering • engineering management

1028 AURORA DRIVE
FAIRBANKS, ALASKA 99709

City of Fairbanks

FAIRBANKS HEALTH CENTER

Fairbanks, Alaska

LIVINGSTON
STONE
Architecture Engineering
Interior Design
PLANNING

3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2059

PROJECT NO. 91.194

DRAWN BY KEF

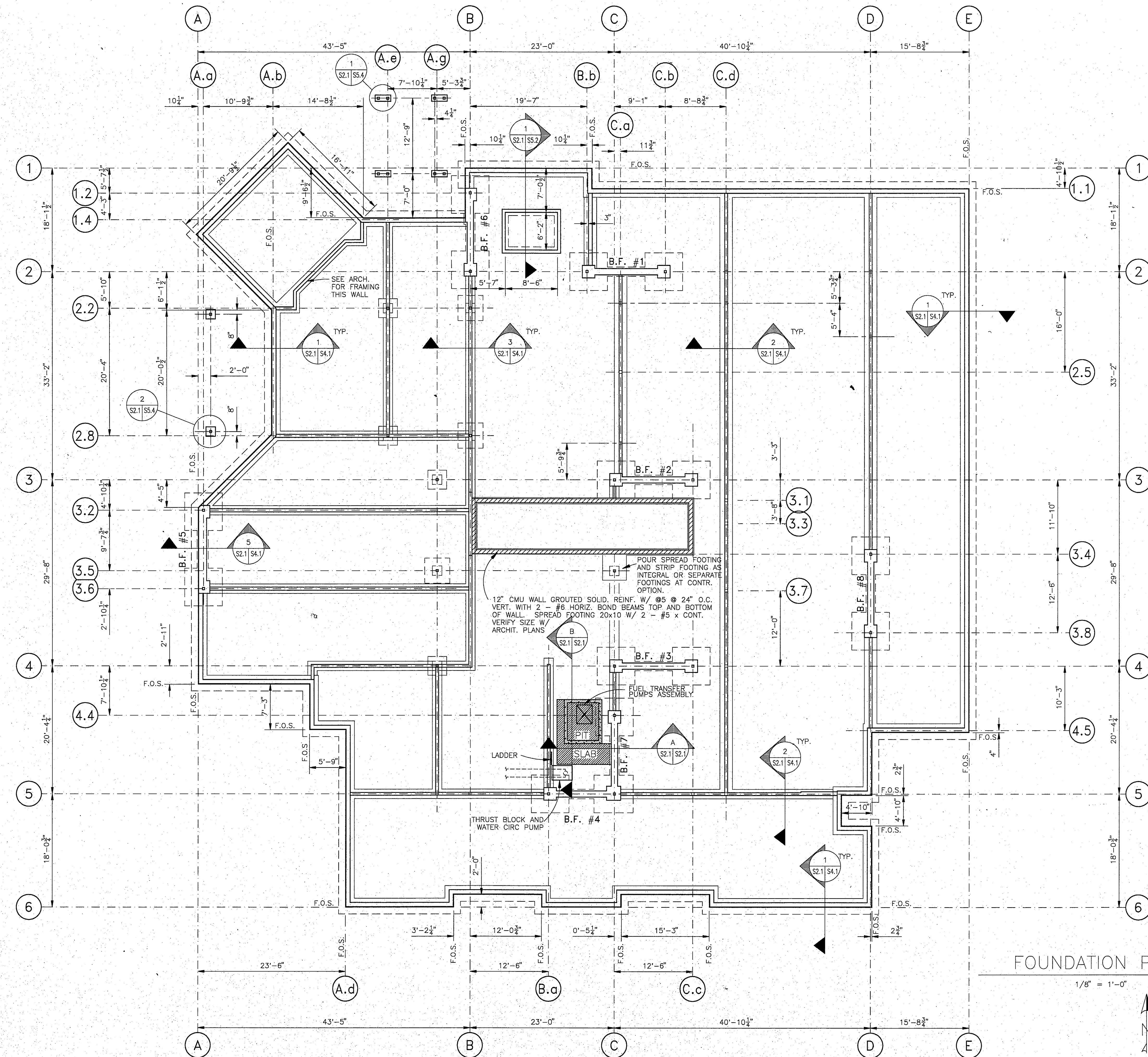
DESIGNED BY KEF

DATE 12/9/92

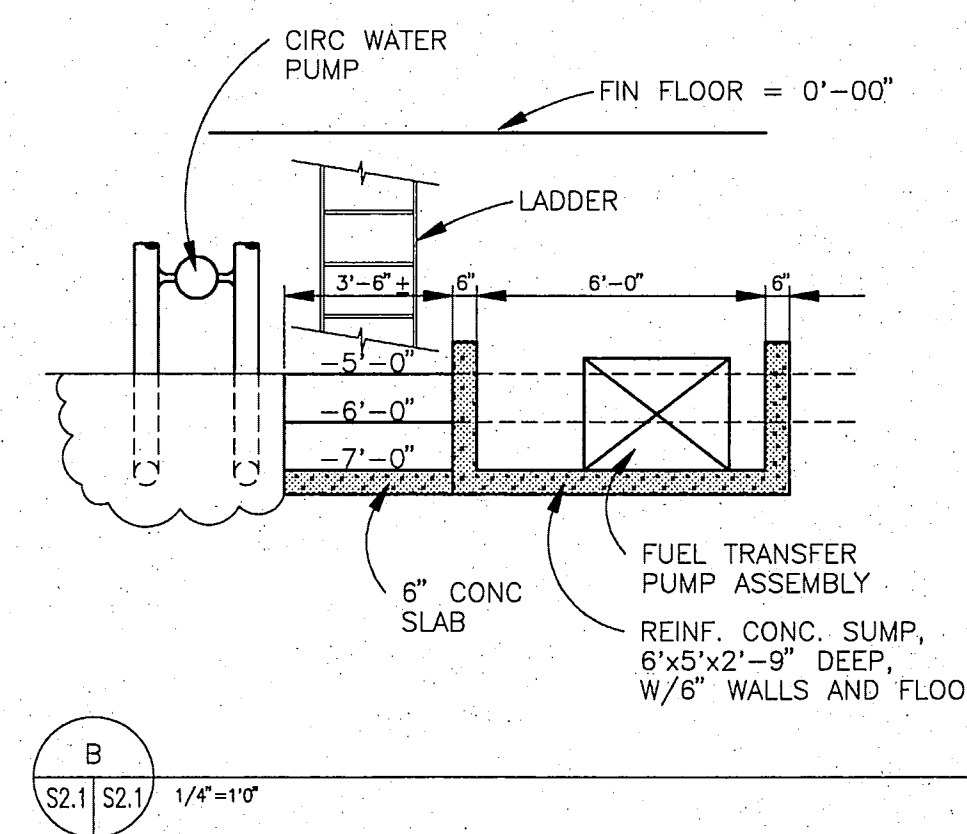
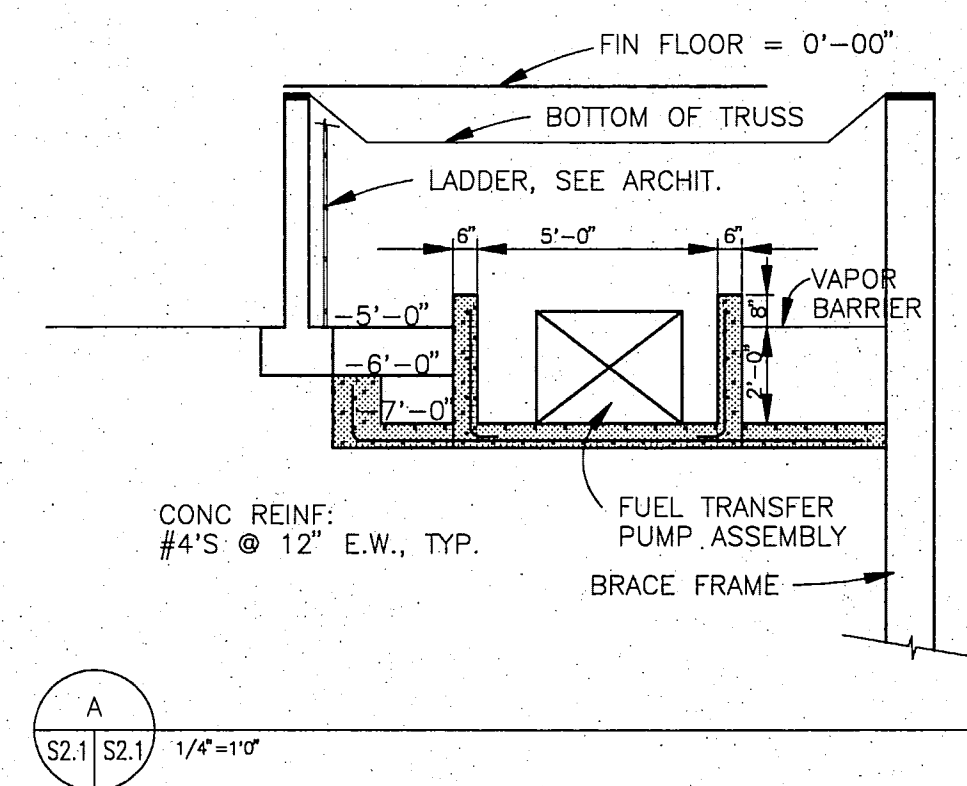
REVISED

TITLE
GENERAL
STRUCTURAL
NOTES
SHEET NO.

S 1.1



- FOUNDATION NOTES:
1. SEE SHEET S1.1 FOR GENERAL STRUCTURAL NOTES.
 2. ELEVATION 0'-0" = 439.10' AS INDICATED ON THE CIVIL/SITE PLAN AND CORRESPONDS TO THE ELEVATION OF THE FIRST FLOOR TOP OF PLYWOOD DECKING. ALL OTHER ELEVATIONS REFERENCE 0'-0"
 3. ALL FOOTINGS ARE TO BE CENTERED UNDER WALLS, COLUMNS AND PIERS UNLESS INDICATED OTHERWISE.
 4. THE TOP OF FOOTING FOR WALLS AND COLUMNS ARE SHOWN IN THE COLUMN AND FOOTING SCHEDULE.
 5. ALL WALL PLATES IN CONTACT WITH CMU OR CONCRETE ARE TO BE CEDAR, REDWOOD, OR A.W.W.
 6. TYPICAL WALL ANCHOR BOLTS SHALL BE 5/8 INCH A307 J-BOLTS AT 4'-0" ON CENTER, MAXIMUM SPACING, WITH A MINIMUM EMBEDMENT OF 5 INCHES. TYPICAL COLUMN ANCHOR BOLTS SHALL BE 5/8" A307 J-BOLTS WITH A MINIMUM EMBEDMENT OF 9 INCHES. TYPICAL COLUMN ANCHOR BOLTS AT BRACED FRAMES SHALL BE A325 OF SIZE AND DEPTH OF EMBEDMENT INDICATED ON THE BASE PLATE DETAILS.
 7. DIMENSIONS ARE GIVEN TO FACE OF STUD (F.O.S.) AT EXTERIOR WALLS. NOTE THAT THE EXTERIOR FACE OF THE FOUNDATION WALL IS OFFSET ONE INCH TO THE INTERIOR PER DETAIL 1/S4.1.
 8. SEE SHEET S4.2 FOR FOOTING SCHEDULE.



FOUNDATION PLAN
1/8" = 1'-0"

**RECORD
DRAWING**

Robert D. Burch
CITY ENGINEER, CITY OF FAIRBANKS
DATE 4/8/96

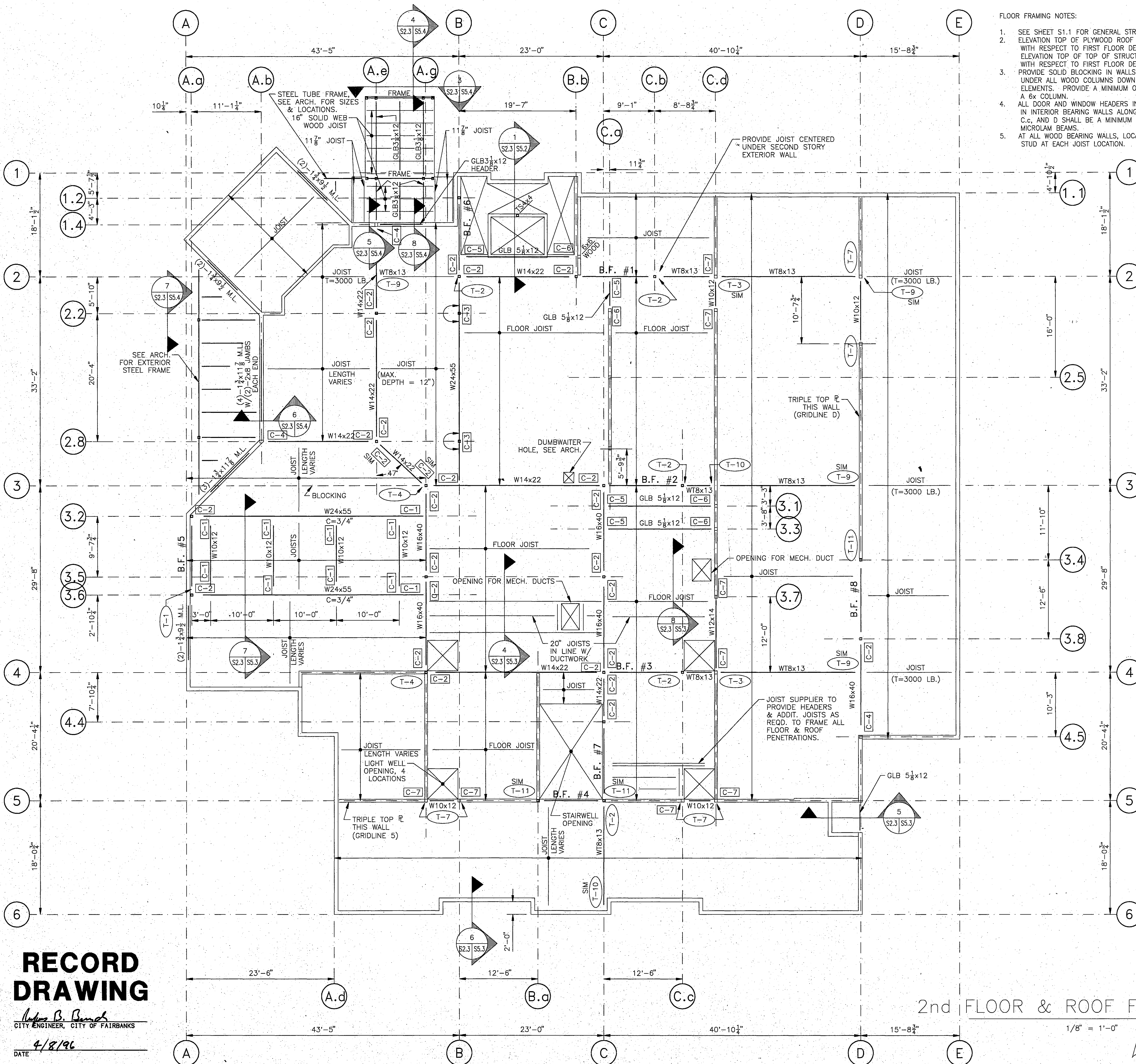
Loftus & Dailey, Inc.
structural engineering • engineering management
1028 AURORA DRIVE
FAIRBANKS, ALASKA 99709

PROJECT NO. 91.194
DRAWN BY KEF
DESIGNED BY KEF
DATE 12/9/92
REVISED

TITLE
FOUNDATION
PLAN & NOTES

SHEET NO.

S 2.1

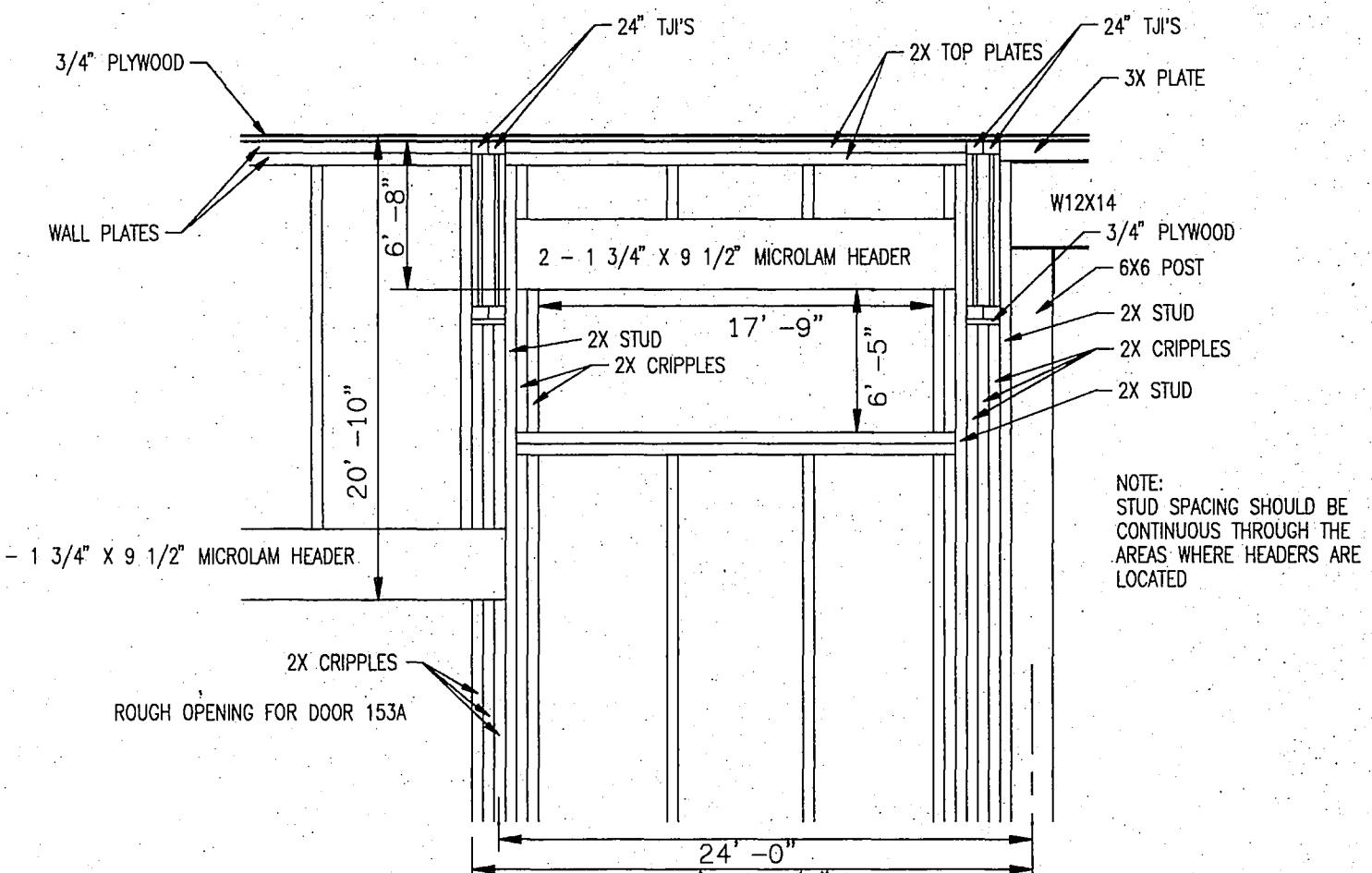


FLOOR FRAMING NOTES:

- SEE SHEET S1.1 FOR GENERAL STRUCTURAL NOTES.
- ELEVATION TOP OF PLYWOOD ROOF DECKING = $+12'-4\frac{1}{2}''$ WITH RESPECT TO FIRST FLOOR DECK ($0'-0''$). ELEVATION TOP OF TOP OF STRUCTURAL STEEL = $+12'-1\frac{1}{4}''$ WITH RESPECT TO FIRST FLOOR DECK ($0'-0''$).
- PROVIDE SOLID BLOCKING IN WALLS AND FLOOR FRAMING UNDER ALL WOOD COLUMNS DOWN TO CONCRETE FOUNDATION ELEMENTS. PROVIDE A MINIMUM OF 4-2x STUDS UNDER A 6x COLUMN.
- ALL DOOR AND WINDOW HEADERS IN EXTERIOR WALLS AND IN INTERIOR BEARING WALLS ALONG GRIDLINES A.G, C.d, C.e, AND D SHALL BE A MINIMUM OF (2)-1-3/4 x 9-1/2" MICROLAM BEAMS.
- AT ALL WOOD BEARING WALLS, LOCATE AT LEAST ONE VERTICAL STUD AT EACH JOIST LOCATION.

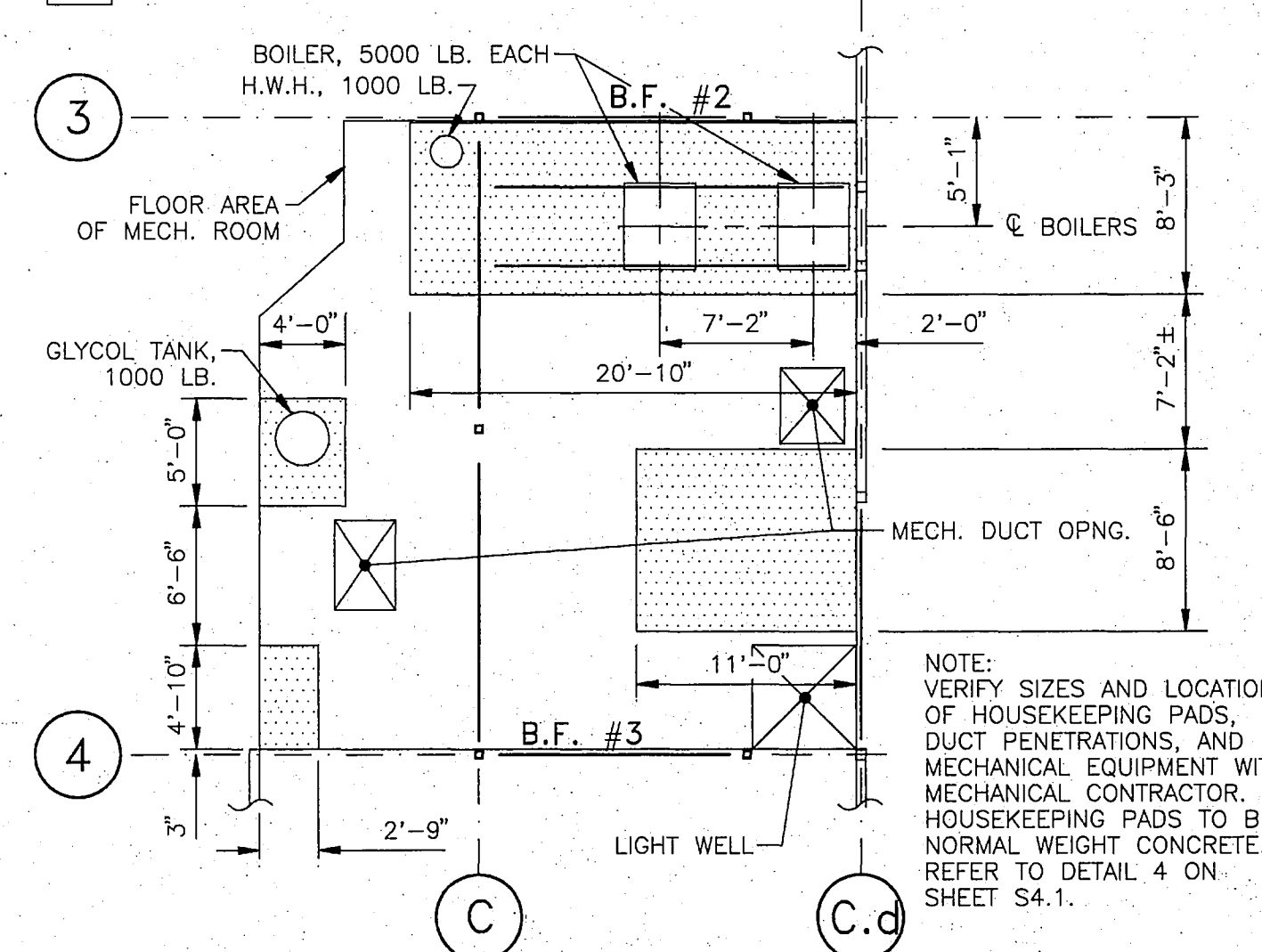
JOIST NOTES:

- ROOF AND FLOOR JOISTS ARE TO BE DESIGNED BY THE JOIST SUPPLIER FOR THE LOADS SHOWN ON SHEET S2.5. JOIST LAYOUT SHOWN IS INTENDED ONLY AS A GUIDE.
- IT IS ANTICIPATED THAT THE AREA THAT IS ONLY ONE STORY HIGH WILL EVENTUALLY HAVE A SECOND FLOOR ADDED. ROOF JOISTS ON THIS LEVEL MUST BE DESIGNED FOR THE WORST CASE OF EITHER THE PRESENT ROOF DEAD, SNOW, AND SNOW DRIFTING LOADS, OR THE FUTURE FLOOR DEAD AND LIVE LOADS.
- PROVIDE FRAMING FOR OPENINGS SHOWN ON THE PLANS. PROVIDE FRAMING FOR OPENINGS NOT SHOWN IF THE DIMENSIONS EXCEED 6 INCHES ACROSS. COORDINATE WORK WITH OTHER TRADES. ROUGH OPENINGS FOR MECHANICAL DUCTWORK ARE TO BE TWO INCHES LARGER THAN DUCTS IN EACH DIRECTION.
- BOILER LOADS ARE TO BE SUPPORTED BY GLULAM BEAMS. PROVIDE EXTRA JOISTS AS REQUIRED TO SUPPORT ADDITIONAL MECHANICAL EQUIPMENT AS SHOWN BELOW.
- ALL JOISTS ARE TO BE A MAXIMUM DEPTH OF 24 INCHES EXCEPT WHERE NOTED OTHERWISE.
- WT8x13 SEISMIC TIE MEMBERS ARE NOT INTENDED TO CARRY GRAVITY LOADS AND SHALL NOT BE SUBSTITUTED FOR A JOIST WHERE SUCH A JOIST IS REQUIRED.
- SIZES & LOCATIONS OF HOLES FOR THE WORK OF OTHER TRADES SHALL BE COORDINATED BY JOIST SUPPLIER. PROVIDE ADDITIONAL FRAMING AT OPENINGS AS NECESSARY.
- JOISTS DESIGNATED WITH (T = 3000 LB.) IN LINE WITH BRACED FRAMES ARE TO BE DESIGNED FOR A TOP CHORD TENSION AND/OR COMPRESSION LOAD IN ADDITION TO THAT REQUIRED FOR GRAVITY LOADS.
- JOISTS AT THIS LEVEL SHALL BE DESIGNED FOR A MAXIMUM LIVE LOAD DEFLECTION OF $1/600$.
- MAXIMUM JOIST SPACING SHALL BE 24 INCHES ON CENTER.
- STEEL BEAMS W24x55 AT GRID 3.2 AND 3.6 BETWEEN GRIDS A AND A.G HAVE 5/8" GYPSUM BOARD APPLIED TO THE UNDERSIDE AND SIDE OF THE BEAMS TO MAINTAIN CONTINUITY IN THE RETURN AIR PLENUM SYSTEM. PROVIDE BLOCKING AS REQUIRED.



FRAMING DETL. @ GRID LINES C.d & 3.7
NOT TO SCALE

- CONTINUOUS BEAM OVER COLUMN
- BEAM TO COLUMN CONNECTION DETAIL
- SEISMIC TIE CONNECTION DETAIL
- HOUSEKEEPING PAD



MECHANICAL ROOM PLAN

2nd FLOOR & ROOF FRAMING PLAN

1/8" = 1'-0"



**RECORD
DRAWING**

John B. Bunch
CITY ENGINEER, CITY OF FAIRBANKS

DATE 4/8/96



Loftus & Dailey, Inc.
structural engineering • engineering management

1028 AURORA DRIVE
FAIRBANKS, ALASKA 99709

City of Fairbanks
FAIRBANKS HEALTH CENTER

Fairbanks, Alaska

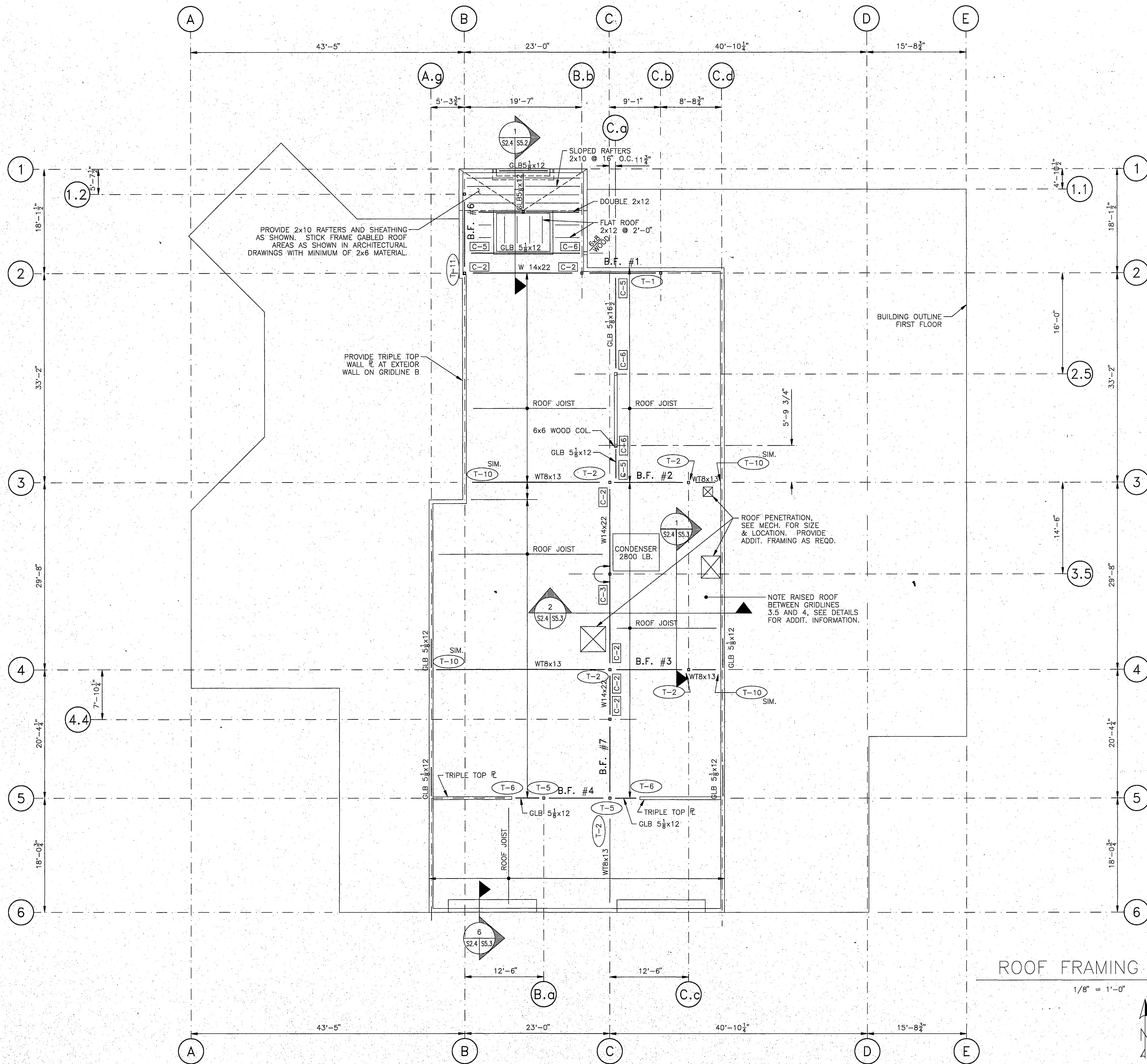
**LIVINGSTON
STONE**
Architecture Engineering Planning

3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2058

PROJECT NO. 91.194
DRAWN BY KEF
DESIGNED BY KEF
DATE 12/9/92
REVISED

TITLE
**2nd FLOOR
FRAMING PLAN
& NOTES**
SHEET NO.

S 2.3



- ROOF FRAMING NOTES:
- ELEVATION TOP OF PLYWOOD ROOF DECK = +25'-0" WITH RESPECT TO FIRST FLOOR DECK (0'-0"). EXCEPT AT THE ELEVATOR SHAFT (SEE ARCHITECTURAL). ELEVATION TOP OF STRUCTURAL STEEL = 24'-8 3/4" WITH RESPECT TO FIRST FLOOR DECK (0'-0").
 - ALL DOOR AND WINDOW HEADERS IN THE INTERIOR AND EXTERIOR WALLS SHALL BE A MINIMUM OF (2)-1-3/4"x9-1/2" MICROLAMS UNLESS DESIGNATED OTHERWISE ON THE PLANS.
 - NAIL ROOF SHEATHING AT 6" O.C. ALONG ALL BRACED FRAME LINES.
 - AT ALL WOOD BEARING WALLS, LAY OUT FRAMING SO AS TO PROVIDE AT LEAST ONE VERTICAL STUD UNDER THE END OF EACH ROOF JOIST.

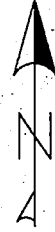
- JOIST NOTES:
- ROOF JOISTS ARE TO BE DESIGNED BY THE SUPPLIER FOR THE LOADS GIVEN ON SHEET S2.5 AND MECHANICAL LOADS. JOIST LAYOUT SHOWN IS FOR EXAMPLE ONLY.
 - ALL ROOF JOISTS ARE TO BE A MAXIMUM DEPTH OF 24 INCHES, EXCEPT WHERE NOTED OTHERWISE ON THE PLANS.
 - PROVIDE ROUGH OPENINGS FOR MECHANICAL DUCTWORK AT APPROXIMATE LOCATIONS SHOWN ON THE PLANS. COORDINATE EXACT LOCATIONS WITH MECHANICAL. ROUGH OPENING SIZES ARE TO BE TWO INCHES LARGER IN EACH DIRECTION.
 - PROVIDE FRAMING FOR OPENINGS NOT SHOWN ON THE PLANS IF OPENINGS EXCEED SIX INCHES ACROSS. COORDINATE WORK WITH OTHER TRADES.
 - SEE MECHANICAL FOR SIZE AND LOCATION OF CONDENSER UNIT. PROVIDE JOISTS AS REQD. TO SUPPORT LOAD.
 - WT8x13 SEISMIC TIE MEMBERS ARE NOT INTENDED TO CARRY GRAVITY LOADS AND SHALL NOT BE SUBSTITUTED FOR A JOIST WHERE SUCH A JOIST IS REQUIRED.
 - SIZES AND LOCATIONS OF HOLES FOR THE WORK OF OTHER TRADES SHALL BE COORDINATED BY THE JOIST SUPPLIER AND VERIFIED BY THE GENERAL CONTRACTOR. PROVIDE ADDITIONAL FRAMING AT OPENINGS AS NECESSARY.
 - MAXIMUM ALLOWABLE DEFLECTION FOR JOISTS AT THIS ROOF LEVEL SHALL BE L/480.
 - MAXIMUM SPACING OF JOISTS SHALL BE 24 INCHES ON CENTER.

- DETAILS NOTE:
- DETAILS 1 AND 2 - CLARIFICATION. THE DIFFERENCE IN THE TOP OF FOOTING ELEVATION SHOWS THE OPTION OF A CMU PERIMETER WALL OR A POURED CONCRETE PERIMETER WALL.

- CONTINUOUS BEAM OVER COLUMN
- C-2 BEAM TO COLUMN CONNECTION DETAIL
- T-1 SEISMIC TIE CONNECTION DETAIL

ROOF FRAMING PLAN

1/8" = 1'-0"



**RECORD
DRAWING**

Robert B. Bunch
CITY ENGINEER, CITY OF FAIRBANKS

DATE 4/8/96



Loftus & Dailey, Inc.
structural engineering • engineering management
1028 AURORA DRIVE
FAIRBANKS, ALASKA 99709

PROJECT NO. 91.194
DRAWN BY KEF
DESIGNED BY KEF
DATE 12/9/92
REVISED

TITLE
**ROOF FRAMING
PLAN & NOTES**

SHEET NO.

S 2.4

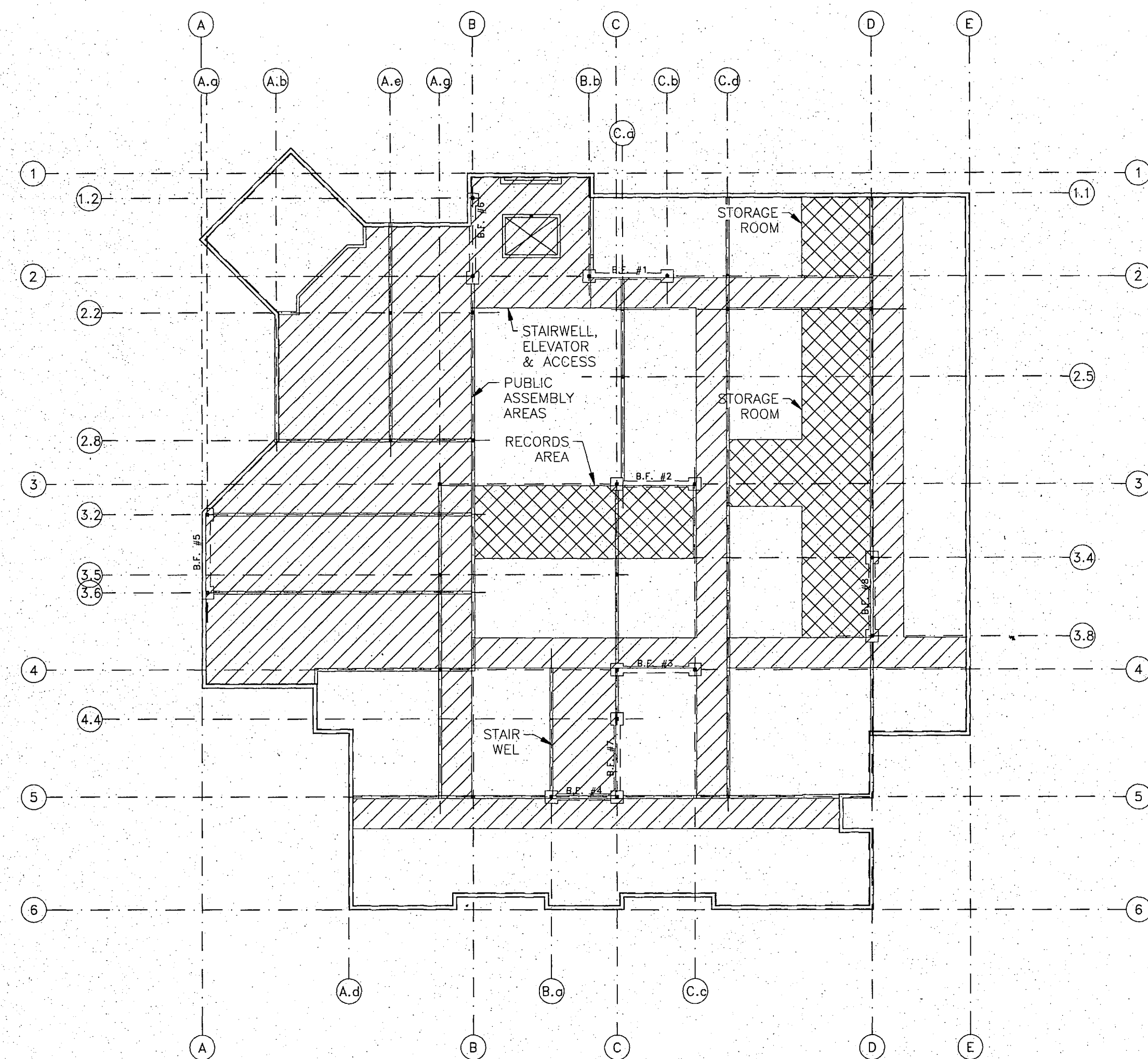


FIGURE A: 1st FLOOR LIVE LOADS

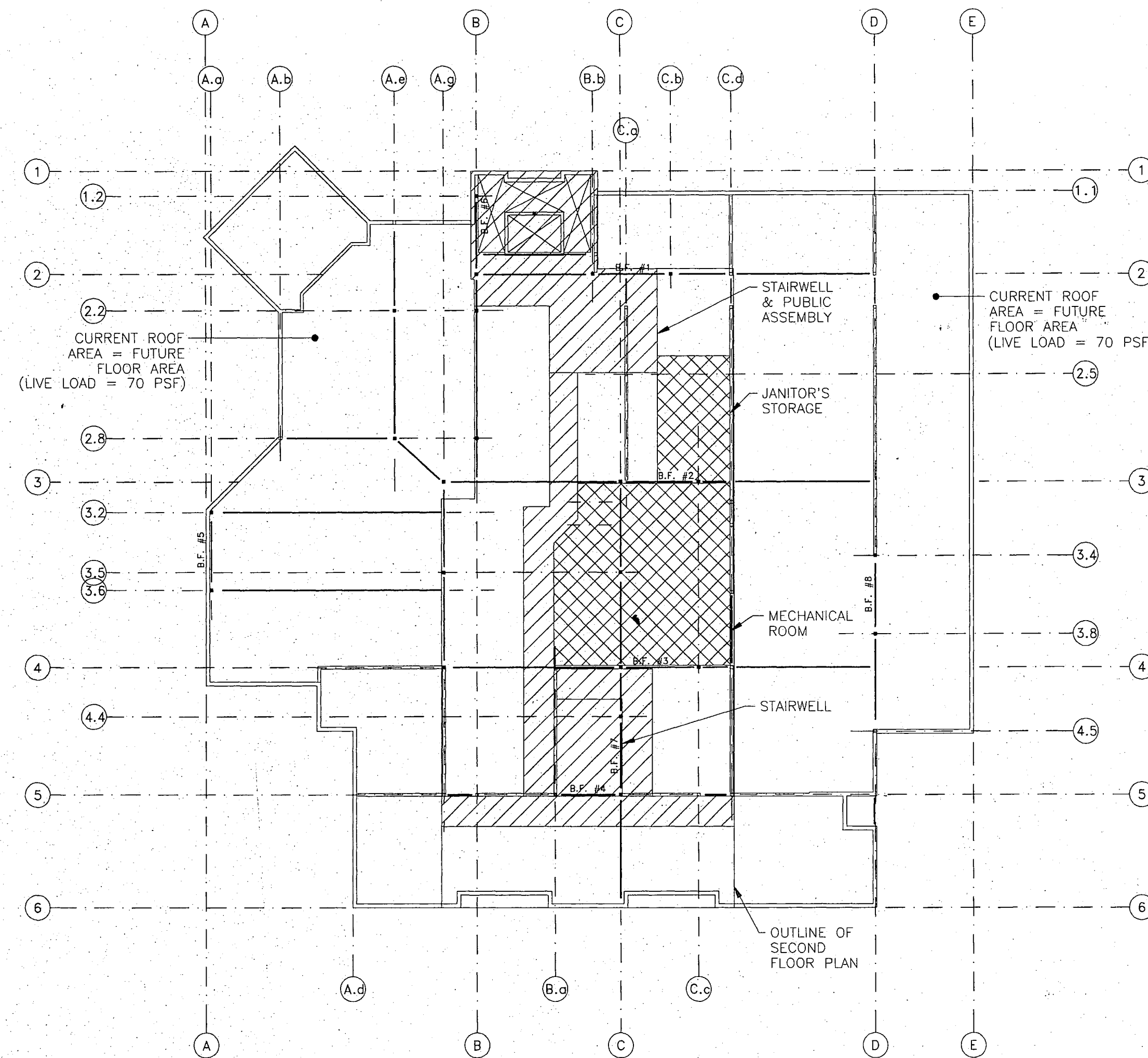


FIGURE B: 2nd FLOOR LIVE LOADS

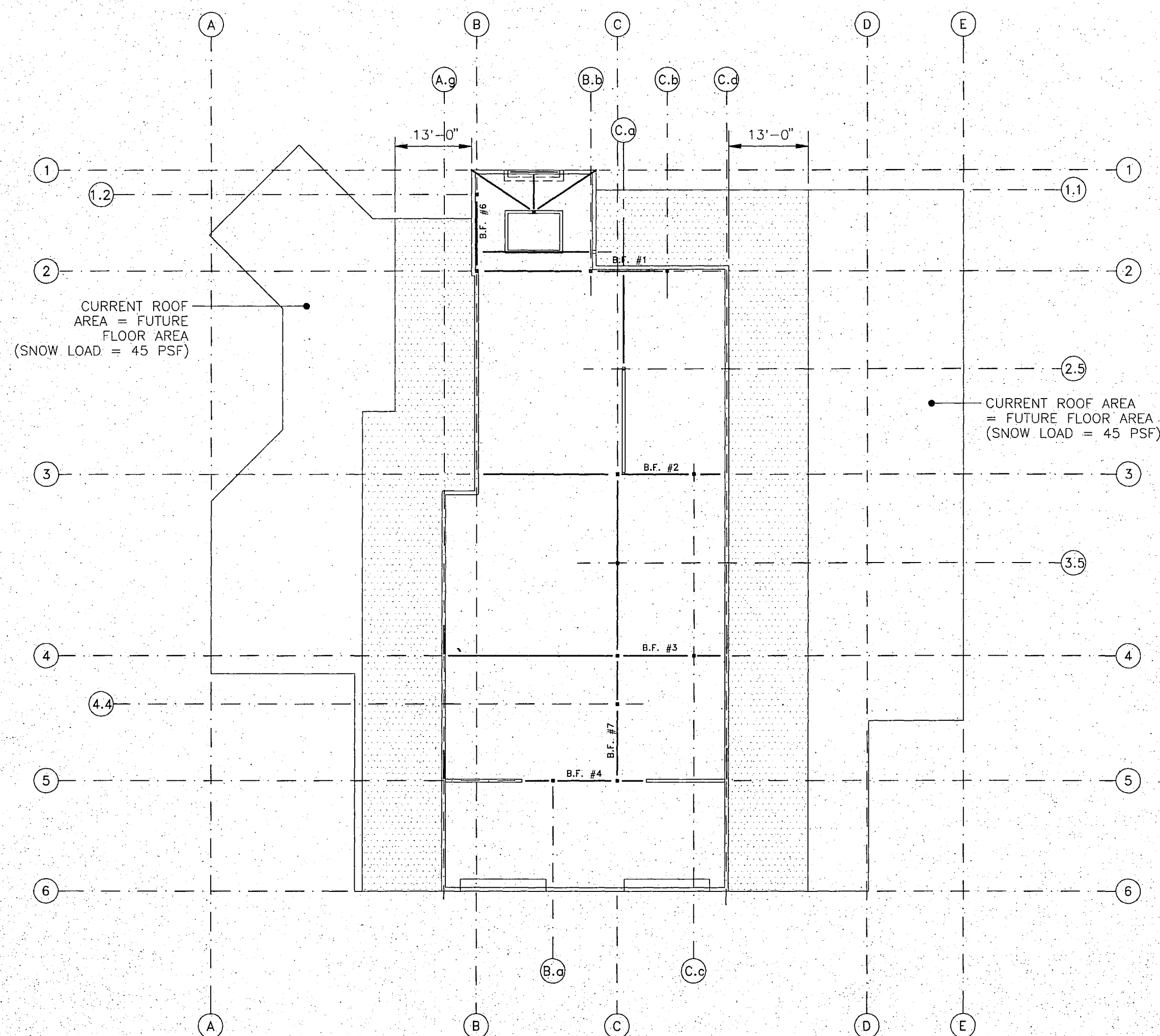
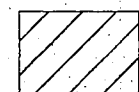
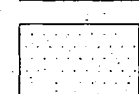


FIGURE C: ROOF SNOW LOAD

DESIGN LIVE LOADS:

-  FLOOR LIVE LOAD = 70 PSF
-  FLOOR LIVE LOAD = 100 PSF
-  FLOOR LIVE LOAD = 125 PSF
-  AREA OF SUPERIMPOSED SNOW DRIFT LOADS. TAPERS FROM 80 PSF AT FACE OF EXTERIOR WALL TO 0 PSF AT 13 FEET FROM THE WALL.

DESIGN DEAD LOADS:

1st FLOOR = 15 PSF MINIMUM
 2nd FLOOR = 30 PSF MINIMUM
 ROOF = 20 PSF MINIMUM
 SEE ALSO MECHANICAL EQUIPMENT LOADS
 ON SHEETS S2.3 AND S2.4

NOTES:

1. ROOF JOISTS AT 2nd FLOOR LEVEL SHALL BE SIZED FOR THE WORST OF THE FOLLOWING TWO LOAD CASES:
 - A. FLOOR DEAD + LIVE LOADS
 PER FIGURE B (30 PSF + 70 PSF)
 - B. ROOF DEAD + SNOW LOADS
 PER FIGURE C (20 PSF + 45 PSF + SUPERIMPOSED SNOW DRIFTS)

PROJECT NO. 91.194

DRAWN BY KEF

DESIGNED BY KEF

DATE 12/9/92

REVISED

TITLE
JOIST DESIGN LOADS

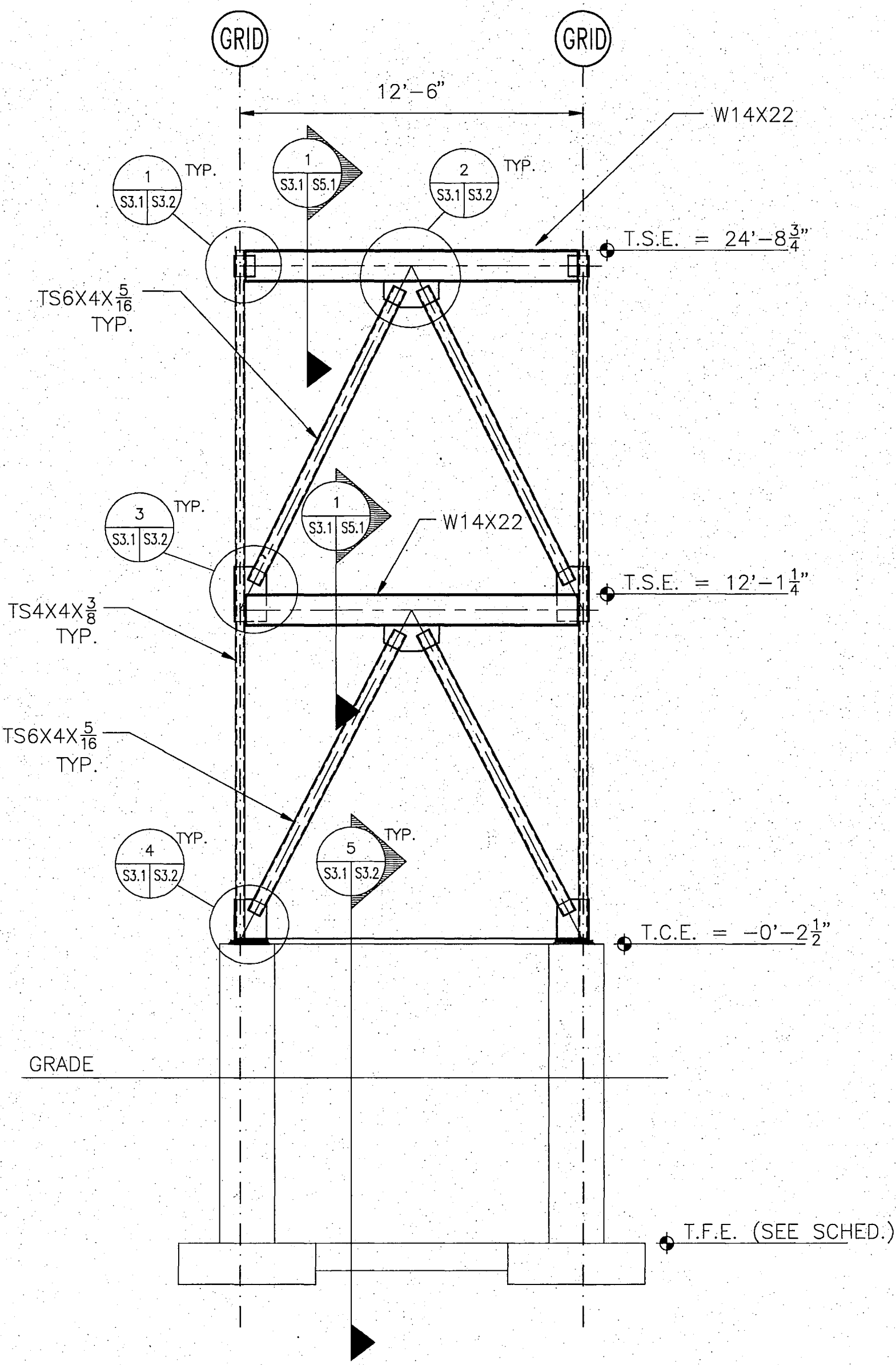
SHEET NO.

S 2.5

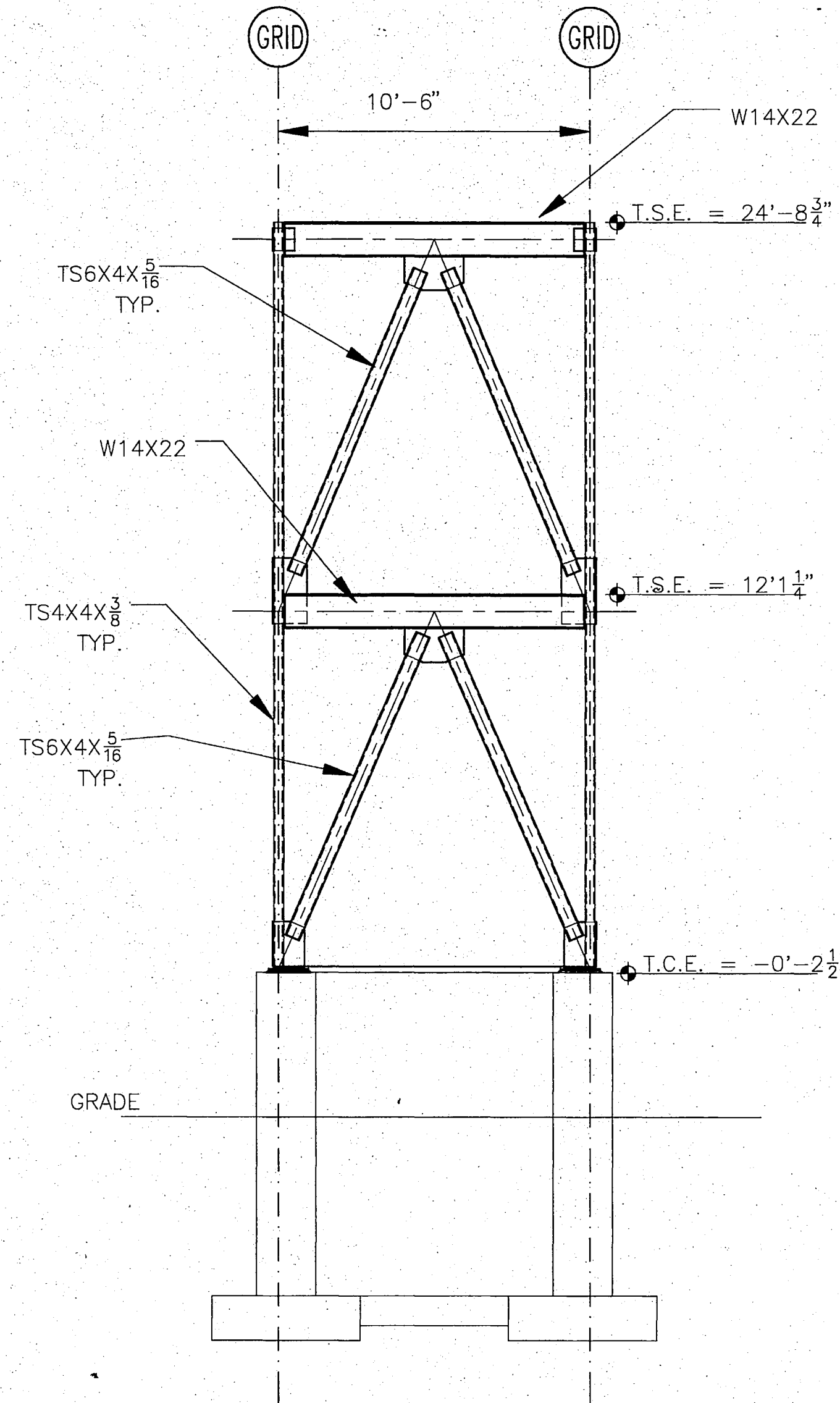
**RECORD
 DRAWING**

Robert D. Dornick
 CITY ENGINEER, CITY OF FAIRBANKS

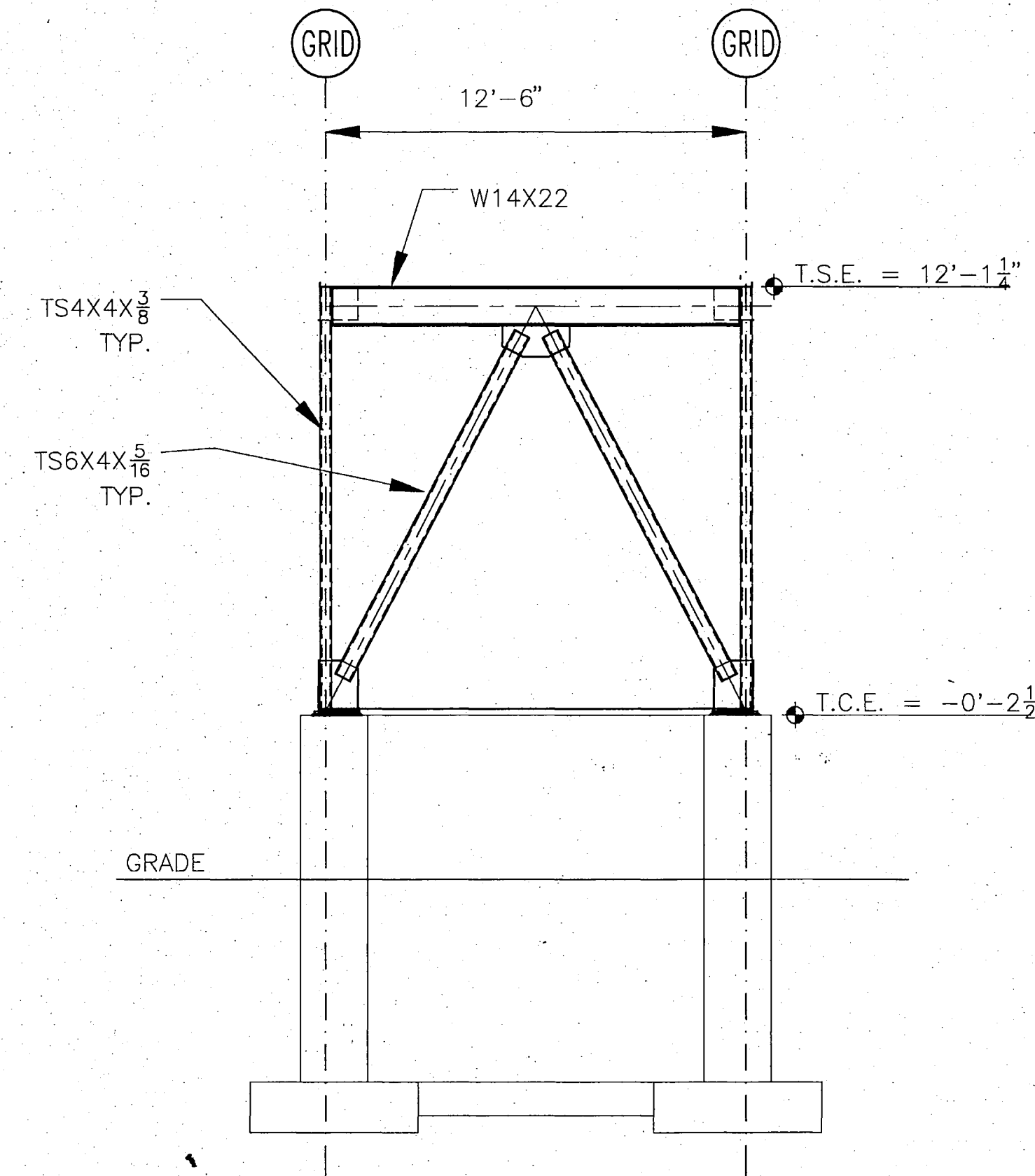
DATE 4/8/96



1
- S3.1
1/4" = 1'-0"
194BFE01
B.F. #1, 2, 3, 6, & 7
BRACED FRAME ELEVATION



2
- S3.1
1/4" = 1'-0"
194BFE02
B.F. #4
BRACED FRAME ELEVATION



3
- S3.1
1/4" = 1'-0"
194BFE04
B.F. #5 & 8
BRACED FRAME ELEVATION

**RECORD
DRAWING**

Robert B. Dailey
CITY ENGINEER, CITY OF FAIRBANKS
DATE 4/8/96

Loftus & Dailey, Inc.
structural engineering • engineering management
1028 AURORA DRIVE
FAIRBANKS, ALASKA 99709

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

**LIVINGSTON
STONE**
Architecture Engineering Planning
Interior Design
3000 Arctic Blvd., Suite 201
Anchorage, Alaska 99503-5790
(907) 562-2055

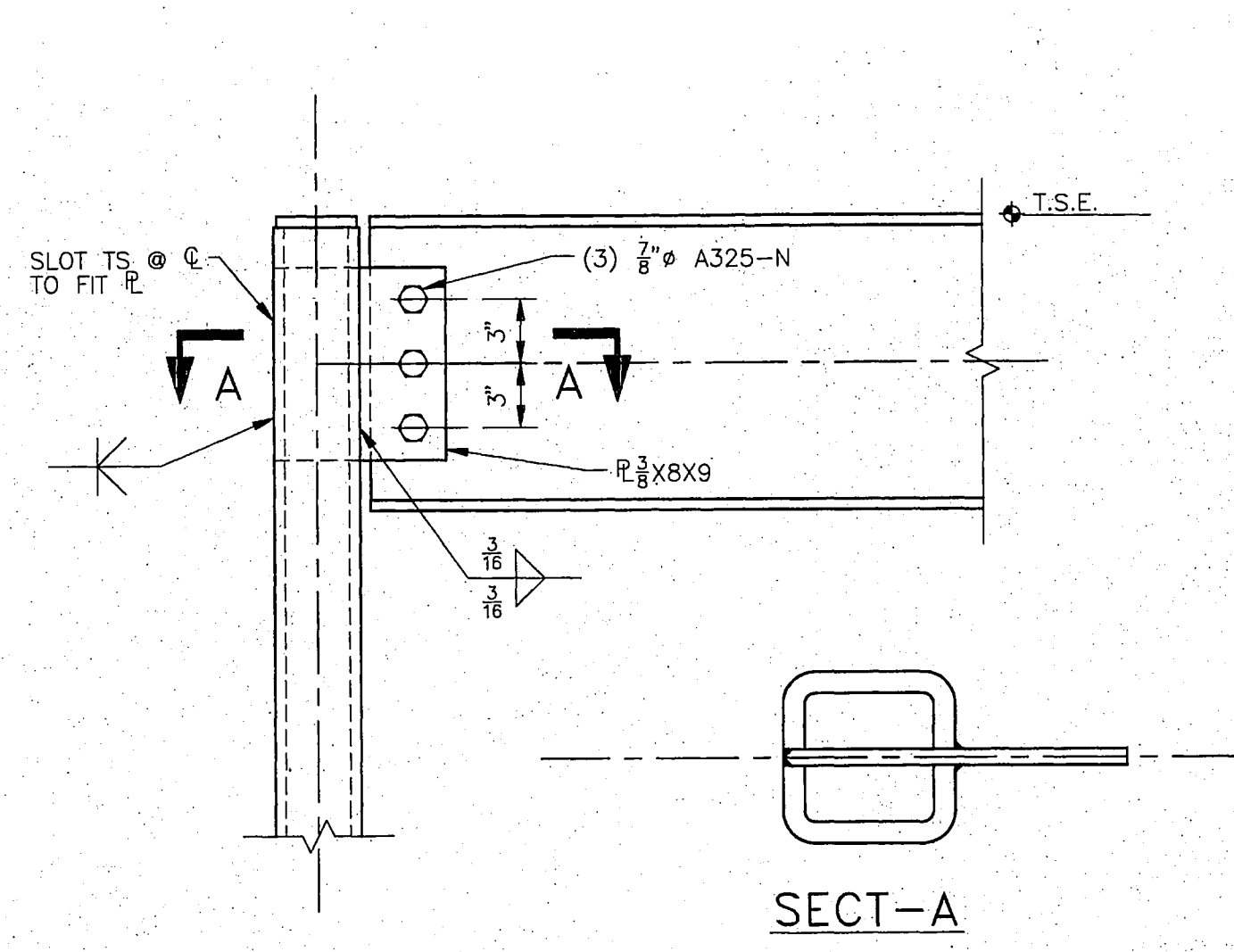
PROJECT NO. 91.194
DRAWN BY EB
DESIGNED BY KEF
DATE 12/9/92
REVISED

TITLE
**BRACED FRAME
ELEVATIONS**

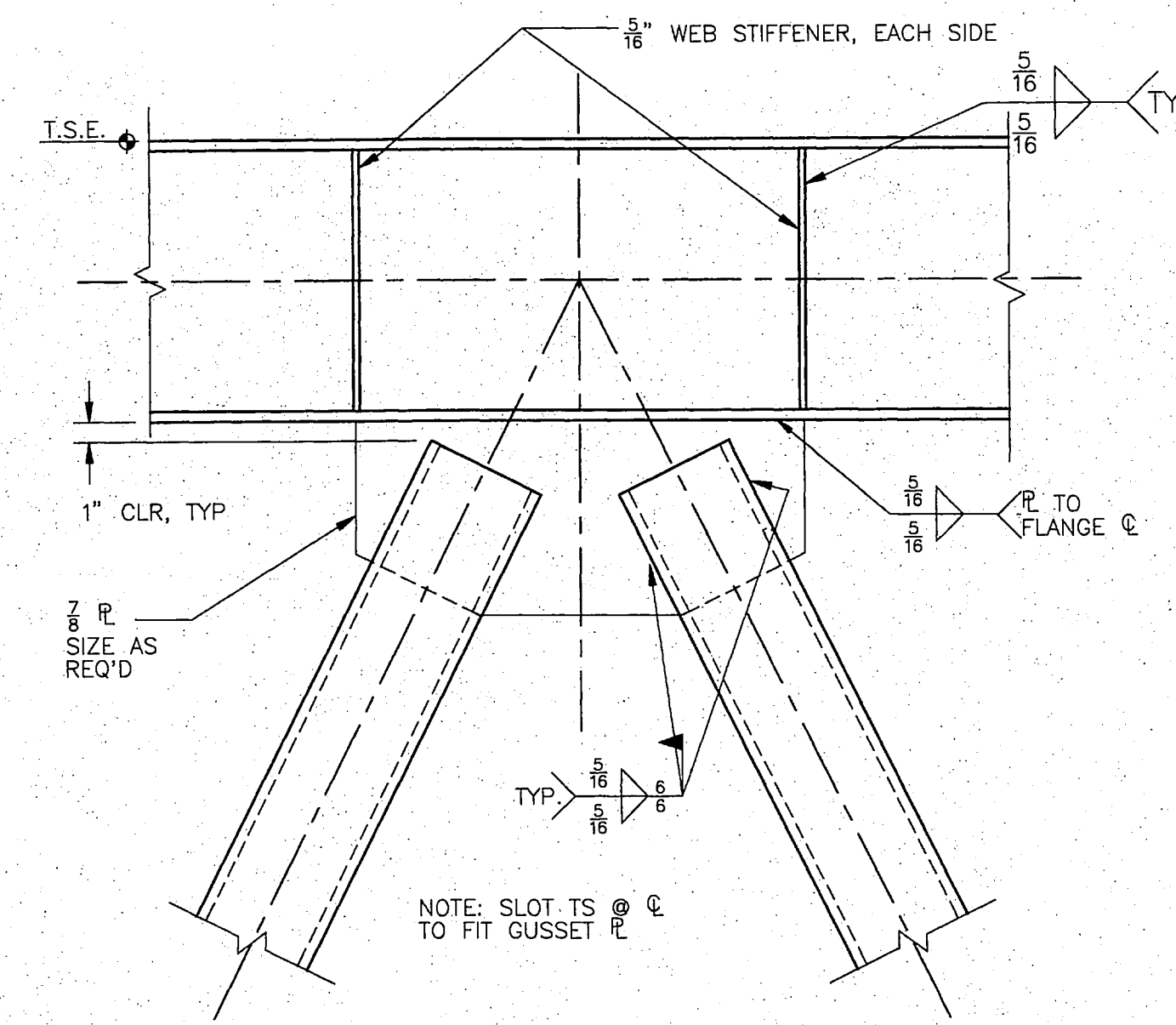
SHEET NO.

S 3.1

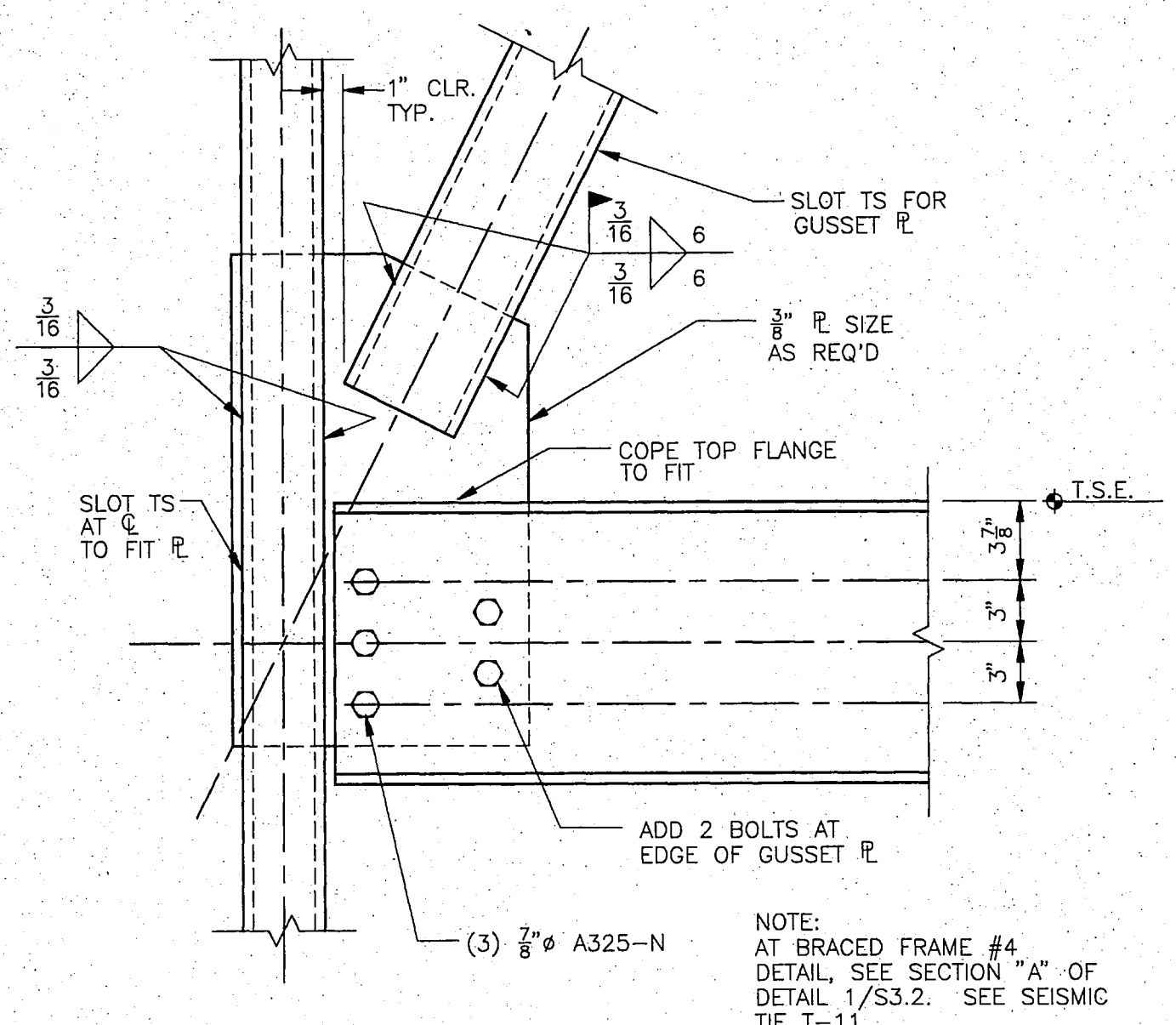
F30.039



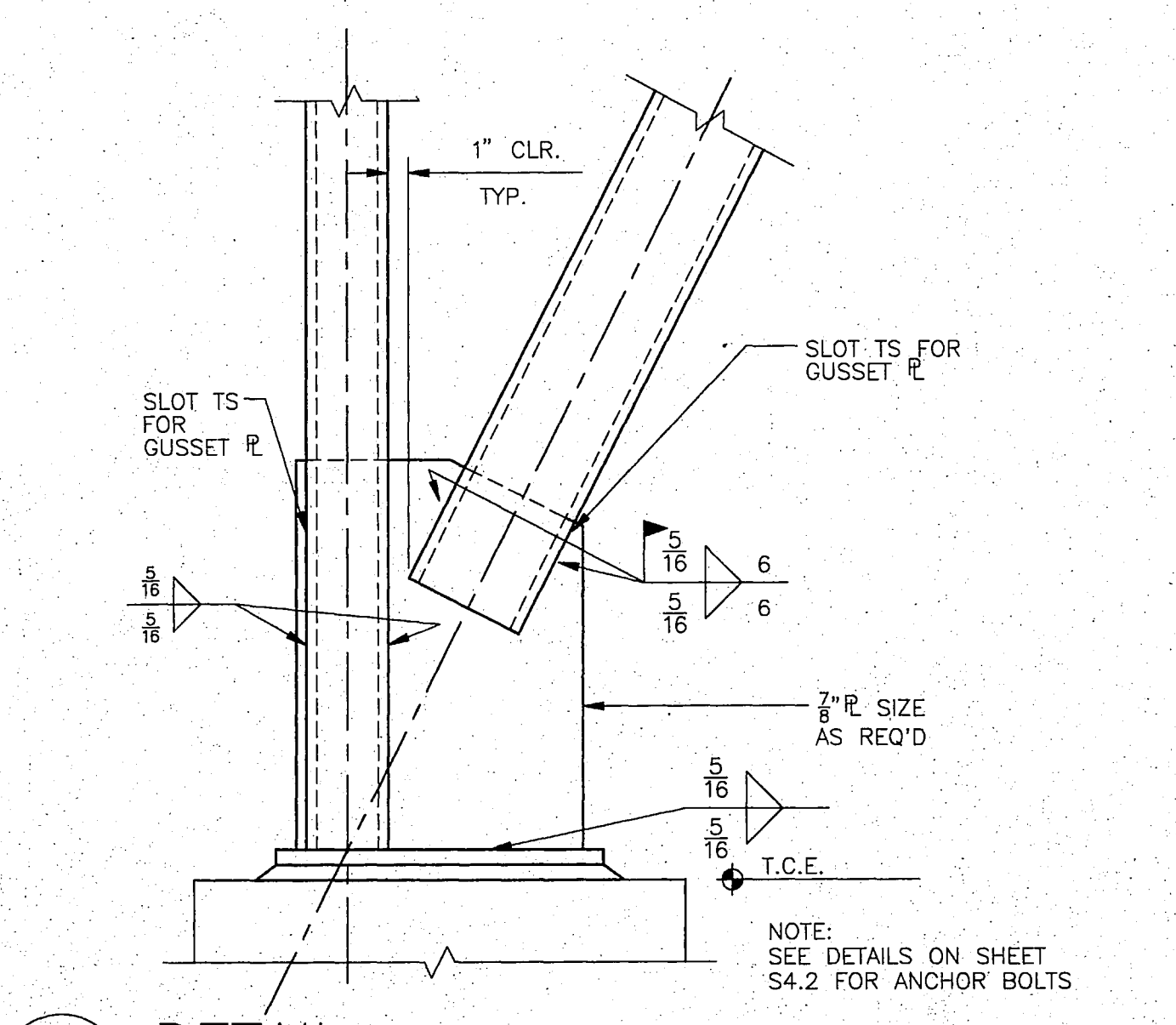
1 DETAIL
S3.1S3.2 1 1/2"=1'-0" 194BFC03



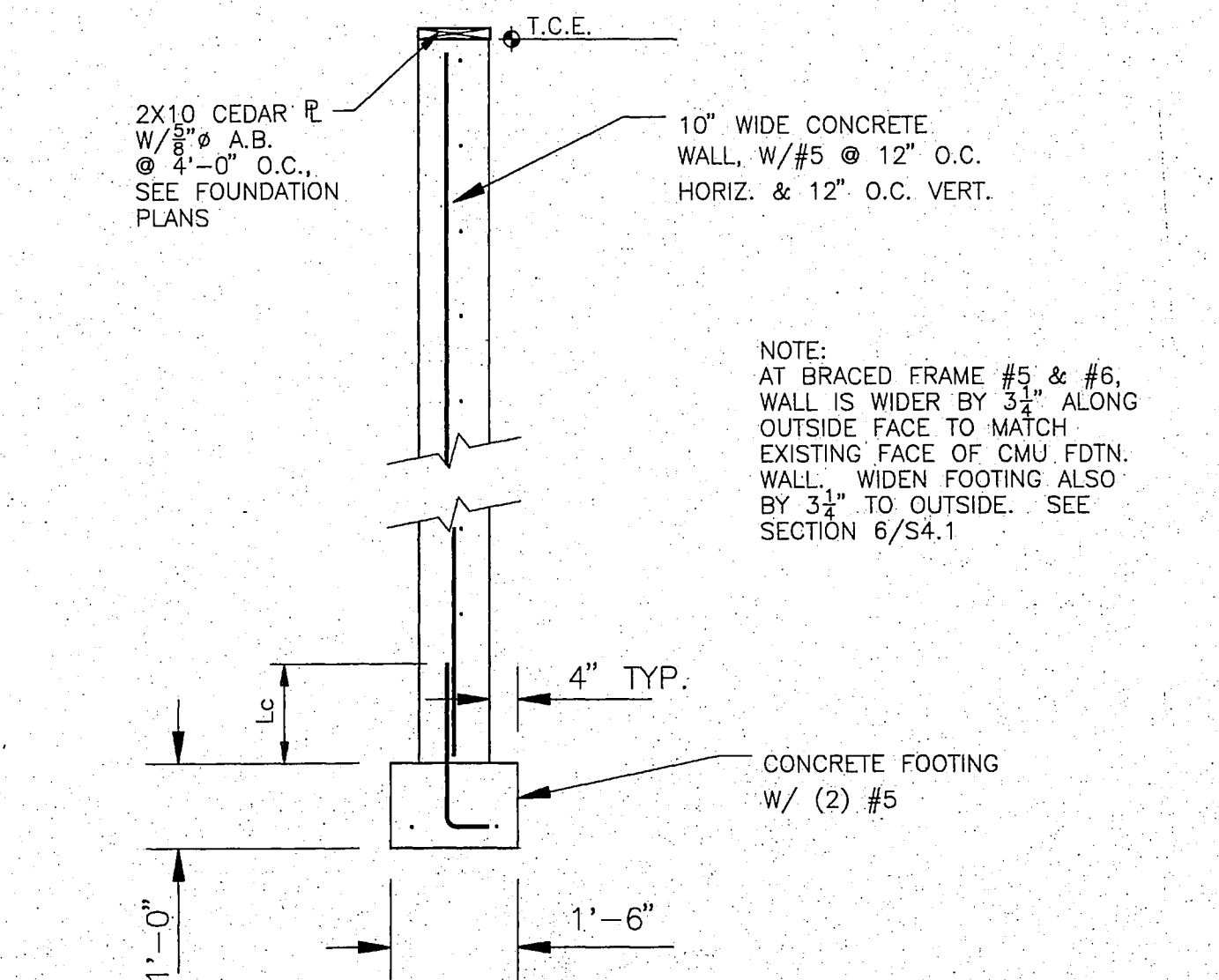
2 DETAIL
S3.1S3.2 1 1/2"=1'-0" 194BFC01



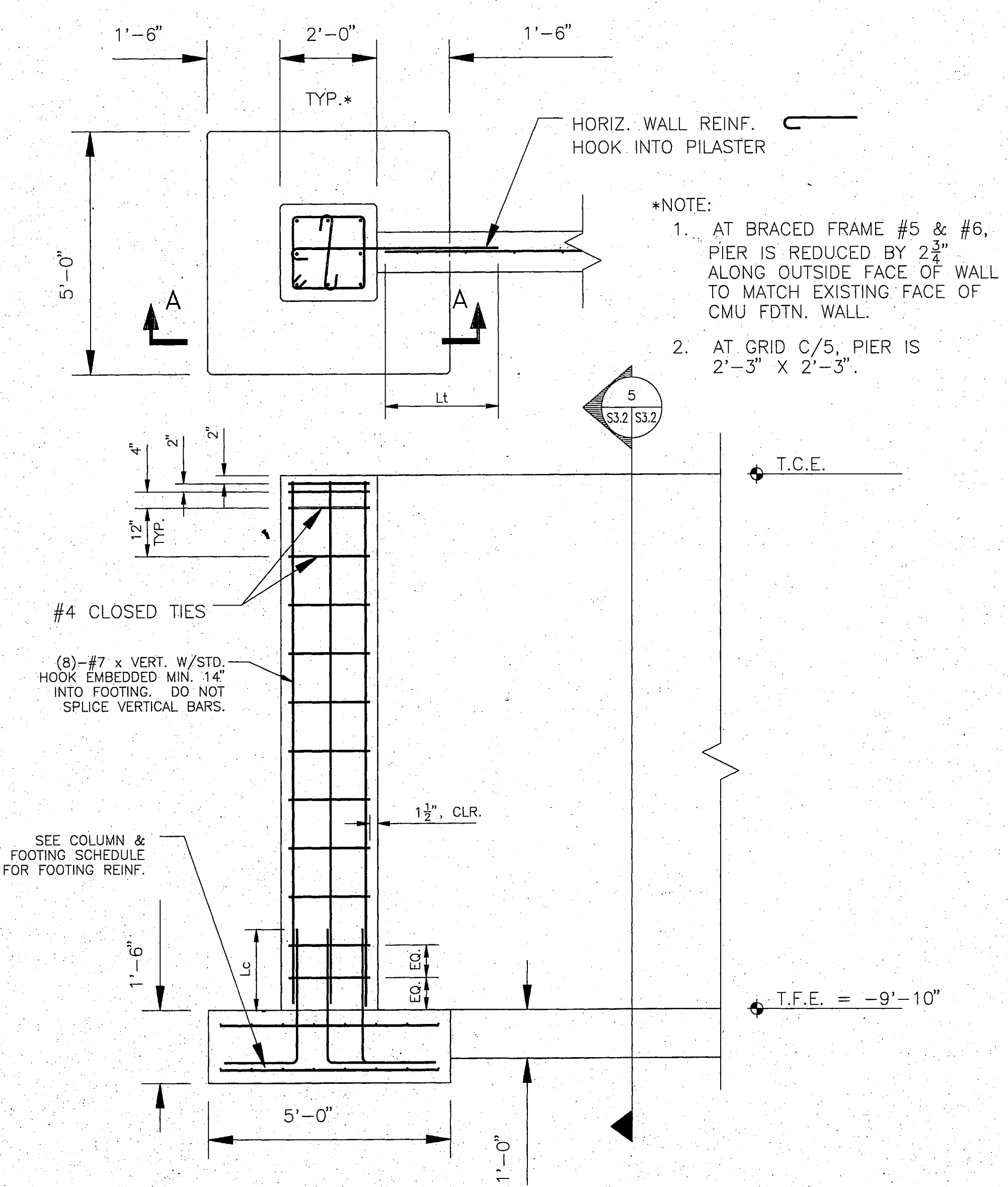
3 DETAIL
S3.1S3.2 1 1/2"=1'-0" 194BFC02



4 DETAIL
S3.1S3.2 1 1/2"=1'-0" 194BFC05



5 DETAIL
S3.1S3.2 1/2"=1'-0" 194BFC03



6 PIER TYPE 2
S3.1S3.2 1/2"=1'-0" 194BFC02

**RECORD
DRAWING**

Richard D. Brown
CITY ENGINEER, CITY OF FAIRBANKS
DATE 9-18-96

Loftus & Dailey, Inc.
structural engineering • engineering management
1028 AURORA DRIVE
FAIRBANKS, ALASKA 99709

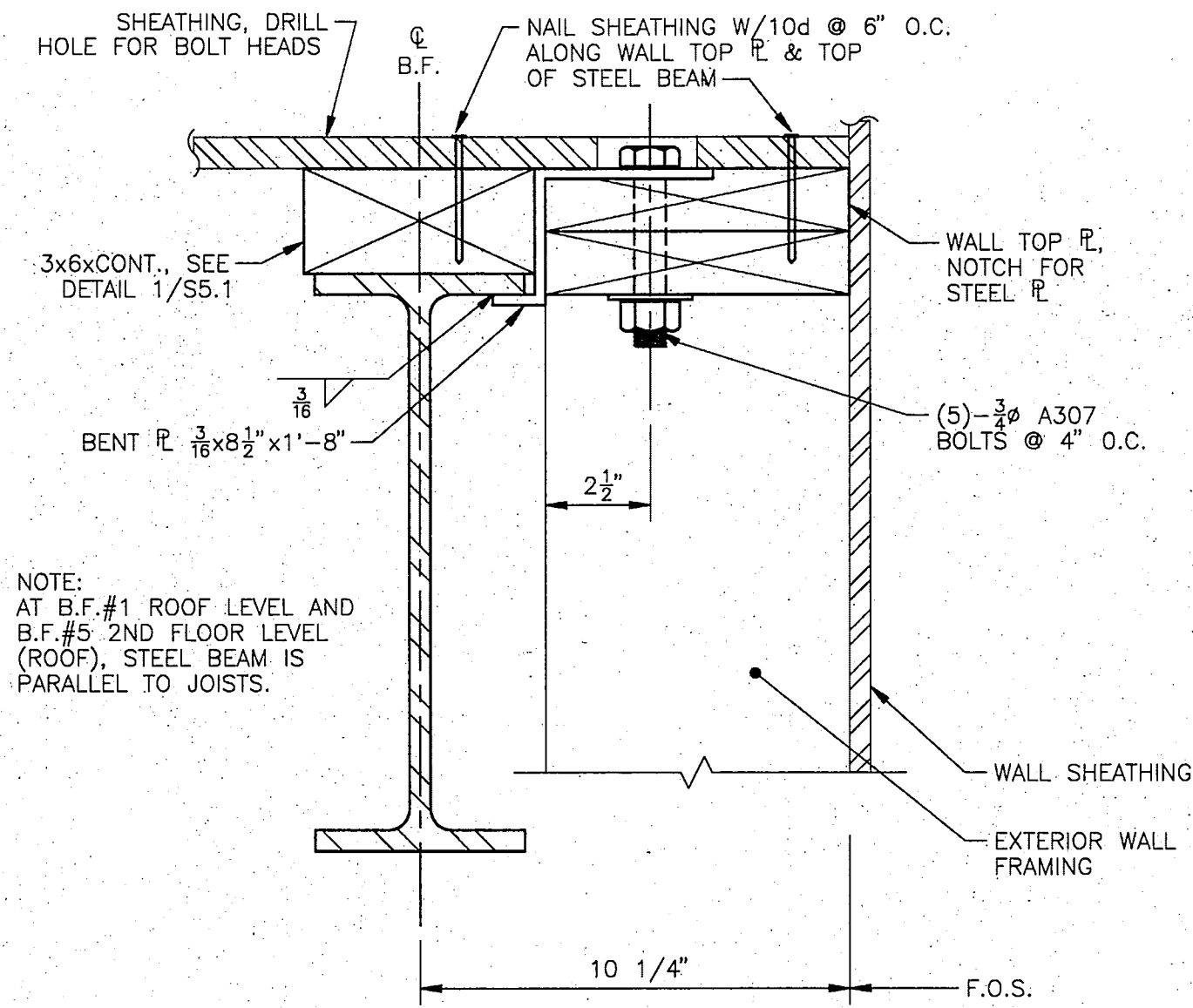
City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

**LIVINGSTON
STONE**
Architecture Engineering Planning
5900 Arctic Blvd., Suite 301
Anchorage, Alaska 99508-5790
(907) 562-2058

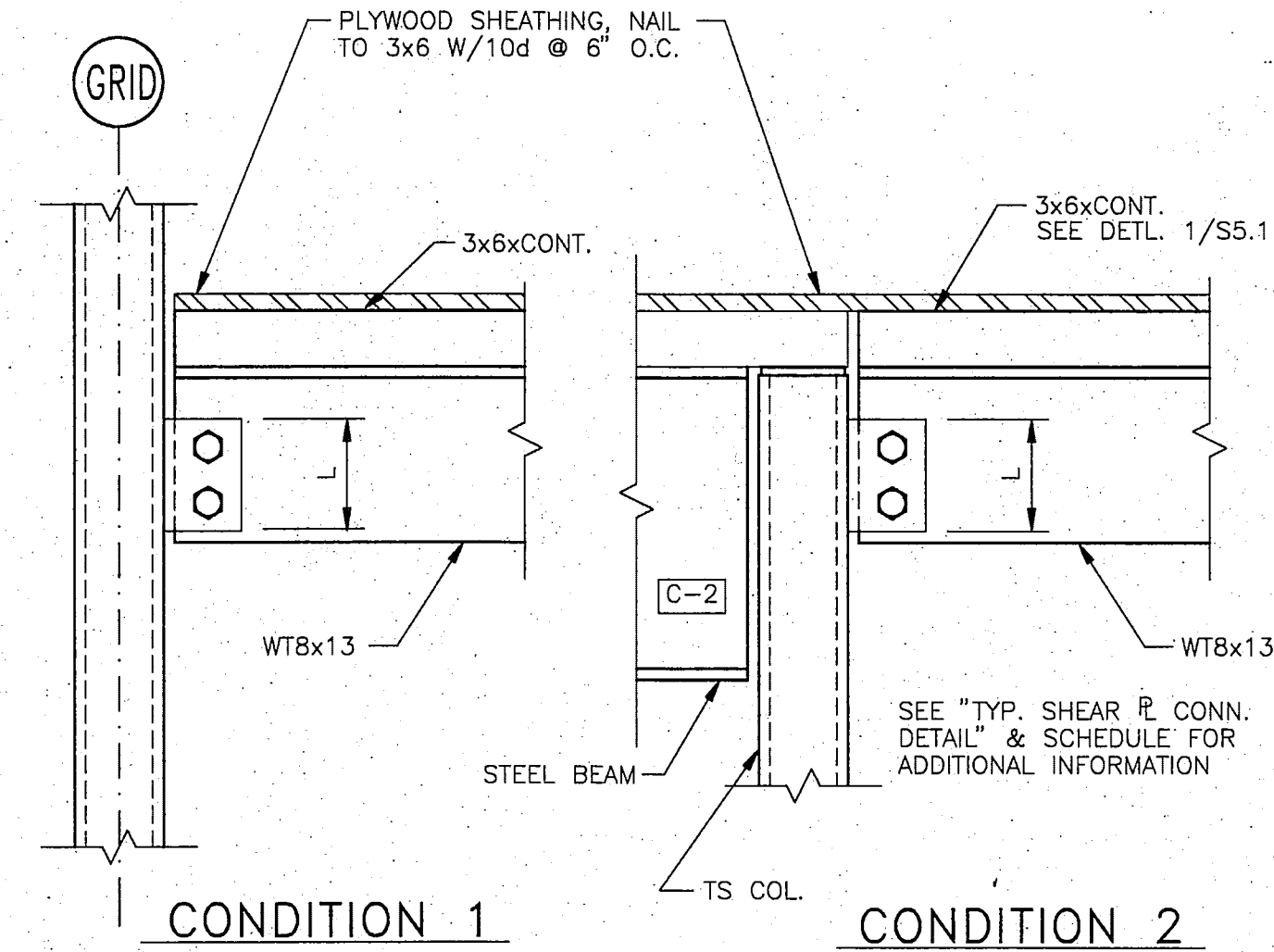
PROJECT NO. 91.194
DRAWN BY EB
DESIGNED BY EB
DATE 12/9/92
REVISED
TITLE
**BRACED FRAME
DETAILS**
SHEET NO.

S 3.2

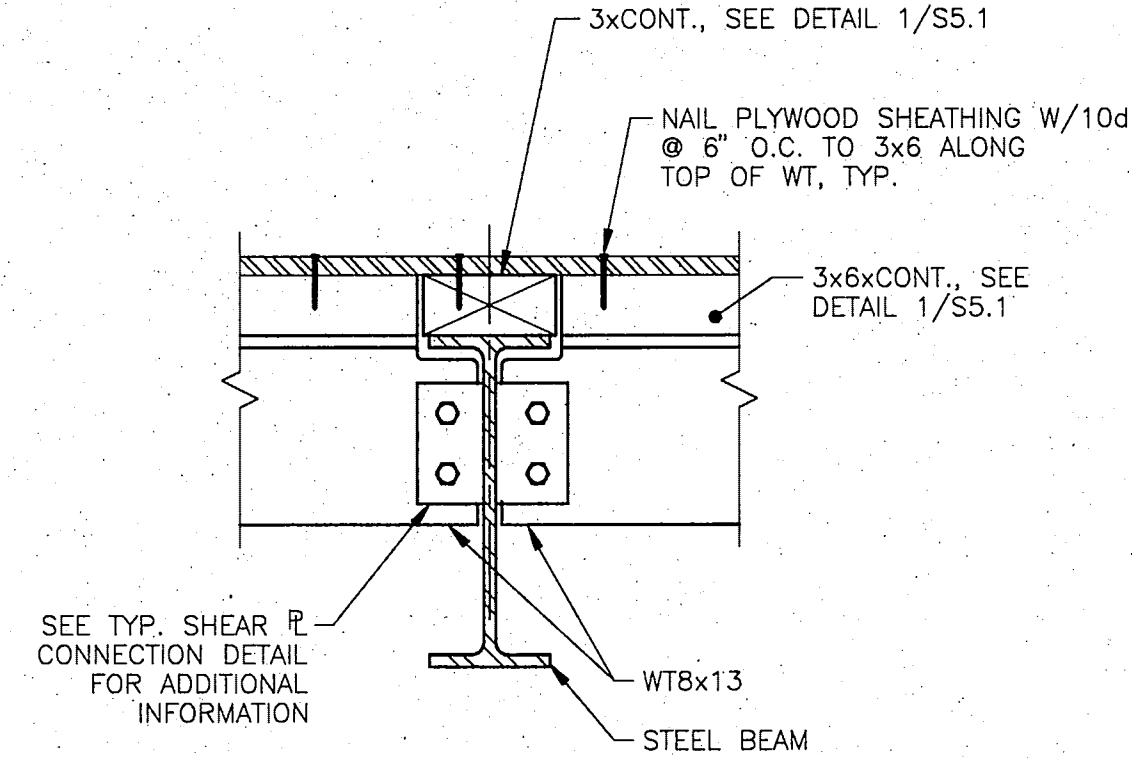
F3.0.038



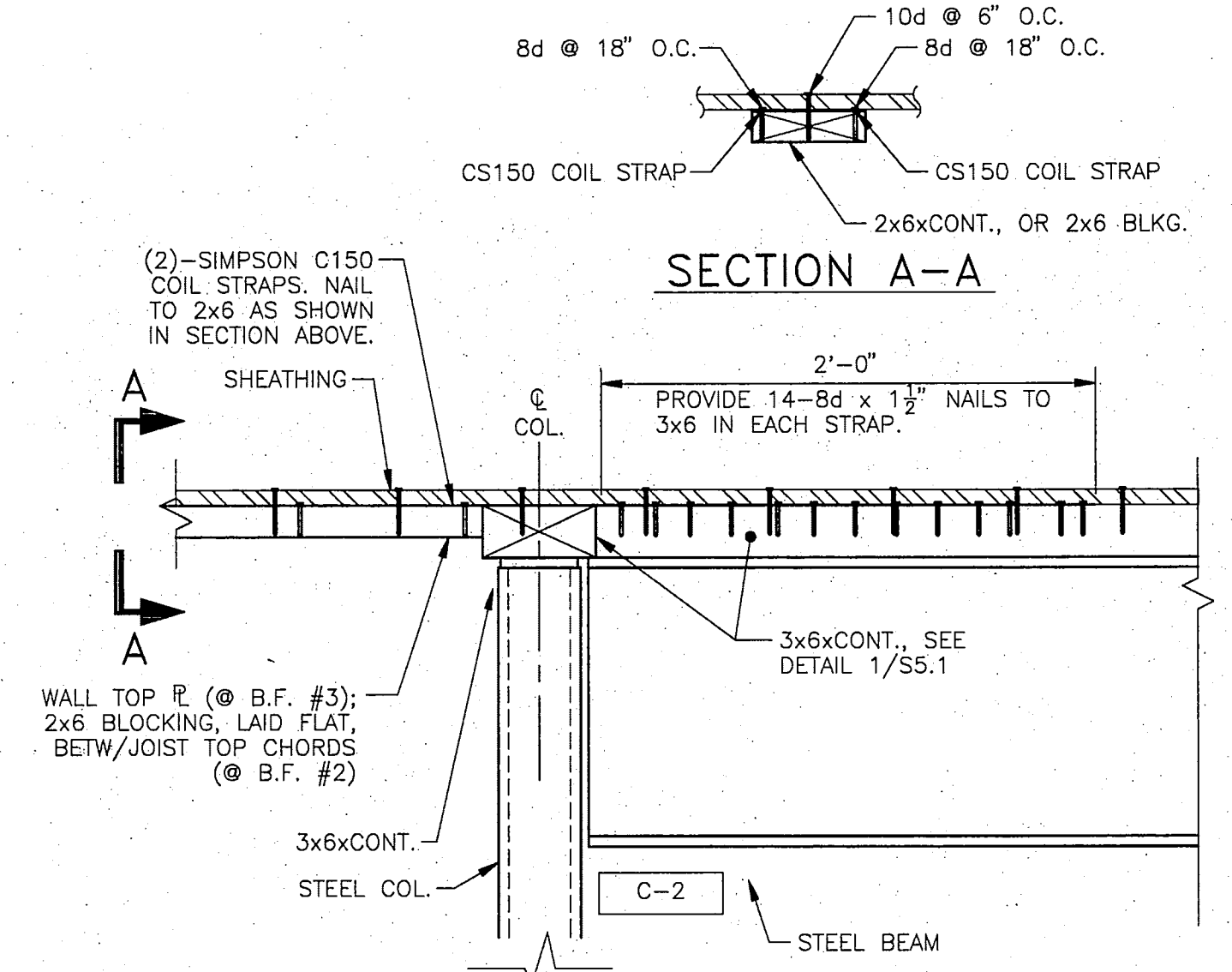
1 SEISMIC TIE T-1
3' = 1'-0" SEITYP1



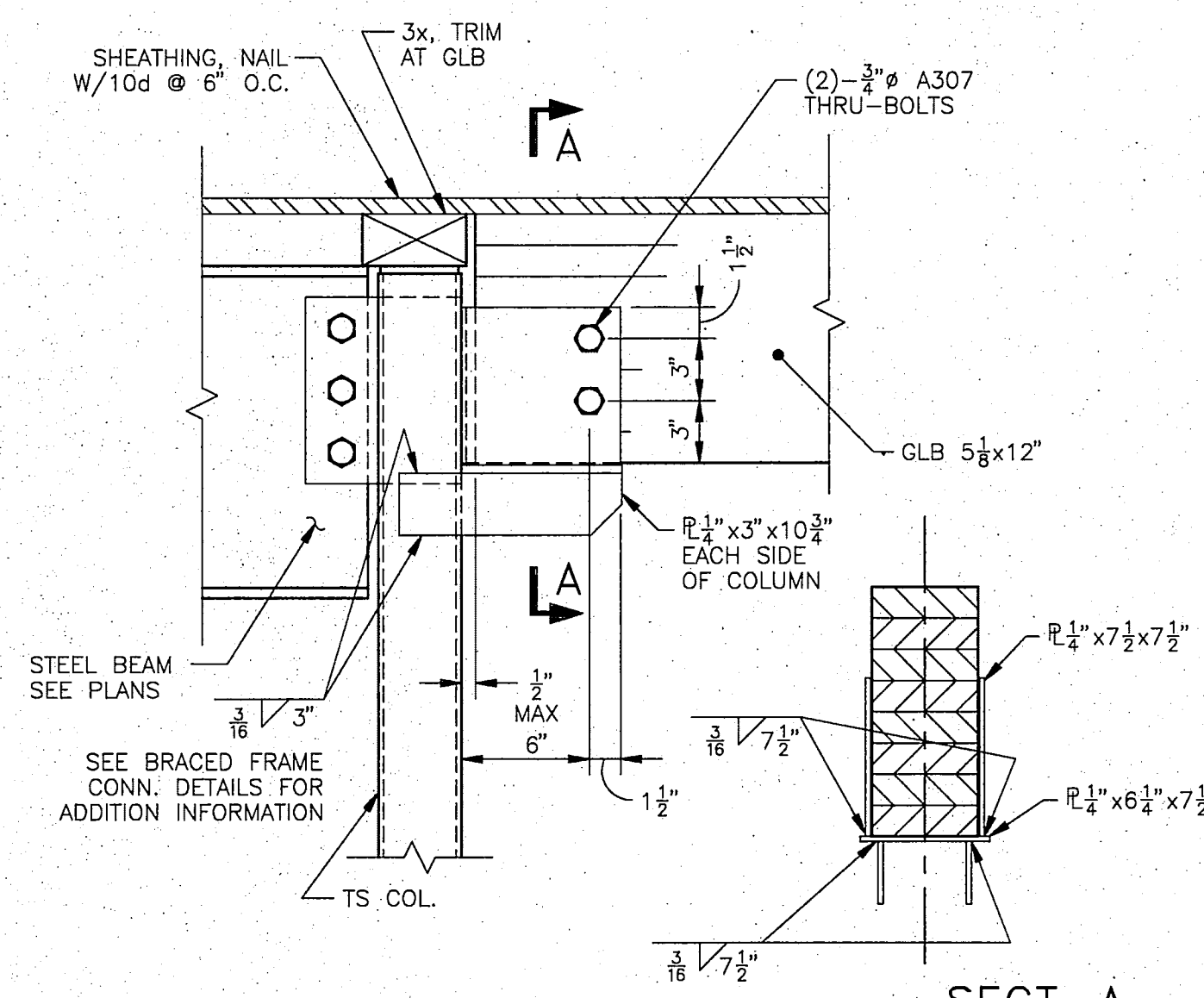
2 SEISMIC TIE T-2
1 1/2' = 1'-0" SEITYP2



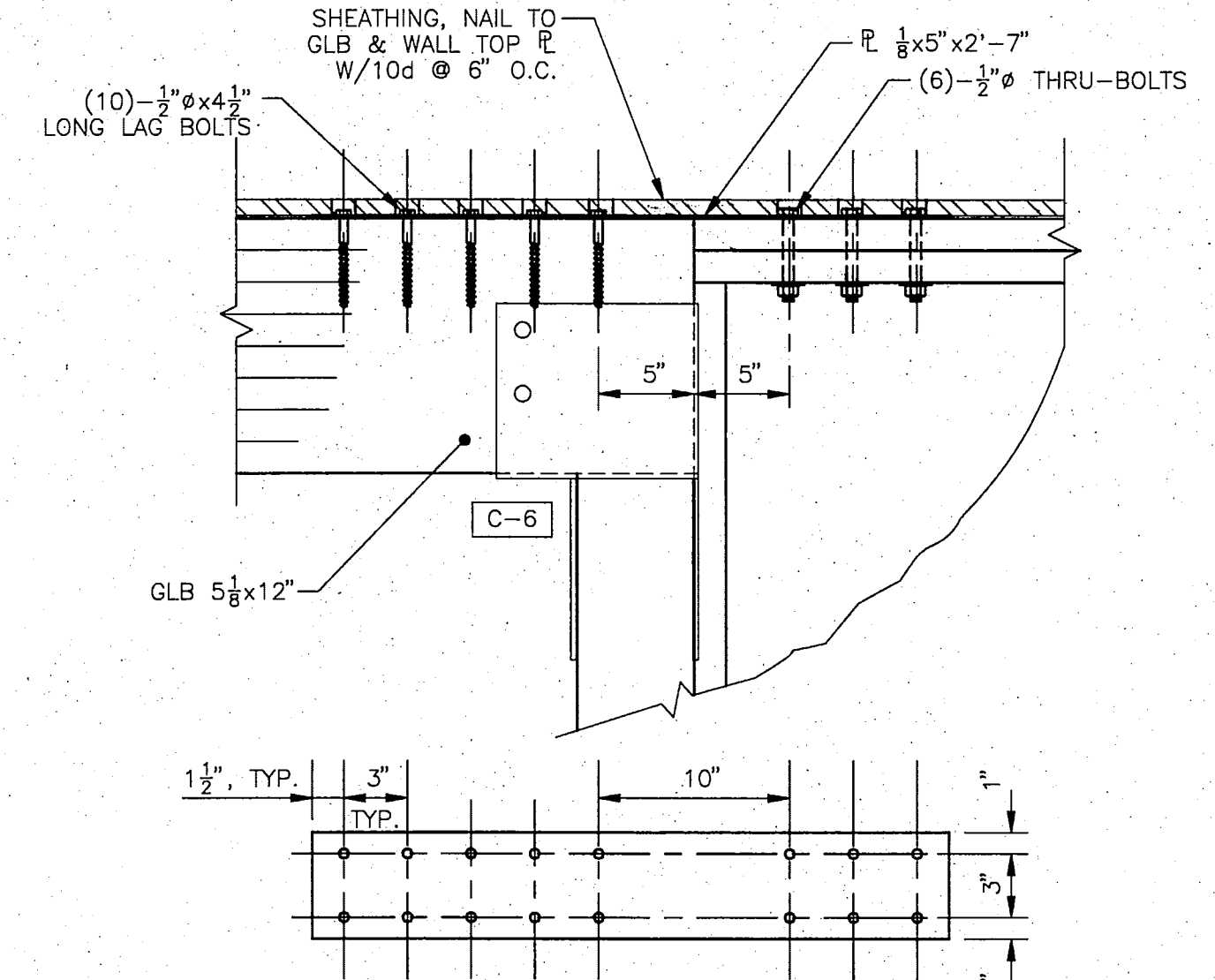
3 SEISMIC TIE T-3
1 1/2' = 1'-0" SEITYP3



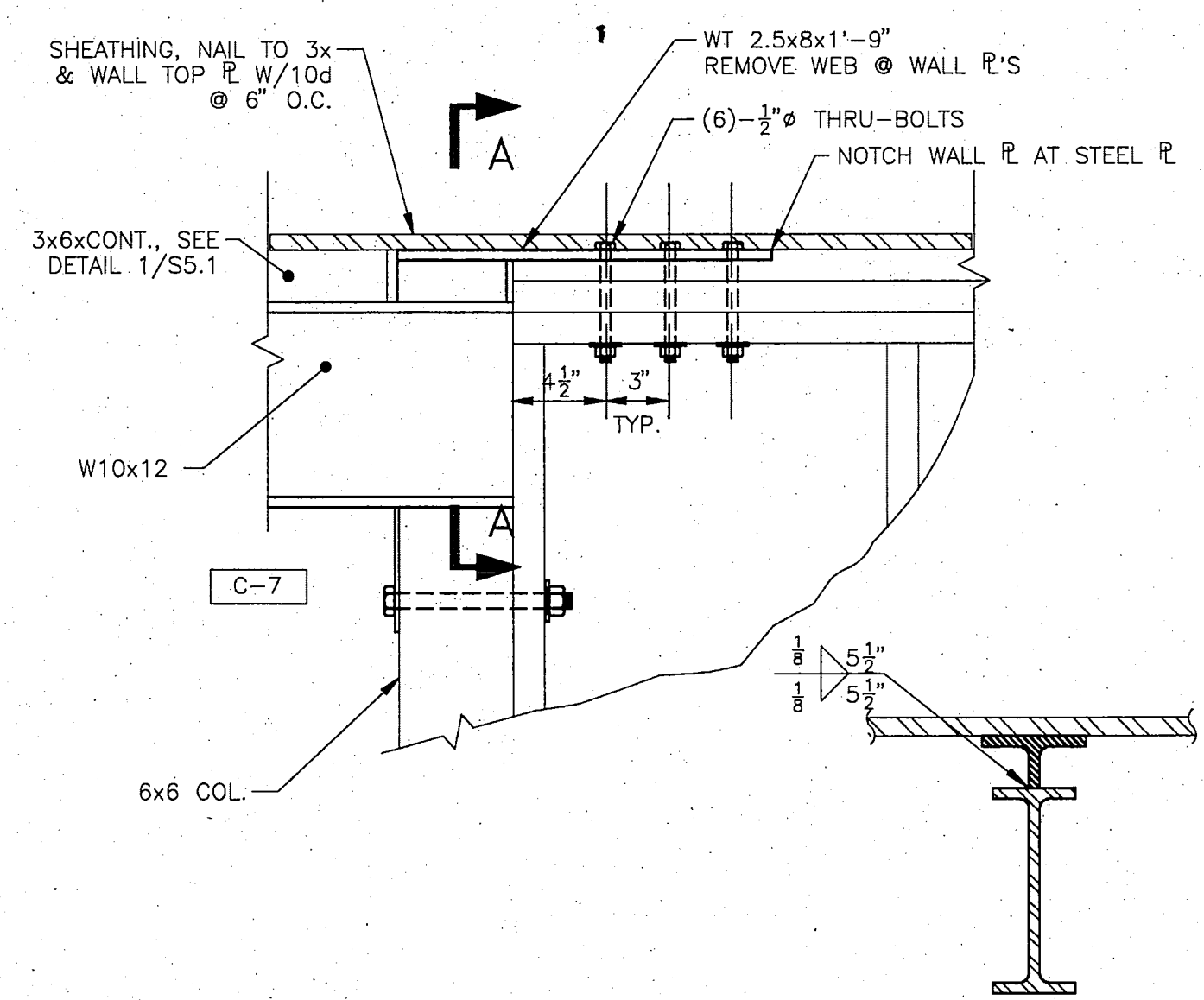
4 SEISMIC TIE T-4
1 1/2' = 1'-0" SEITYP4



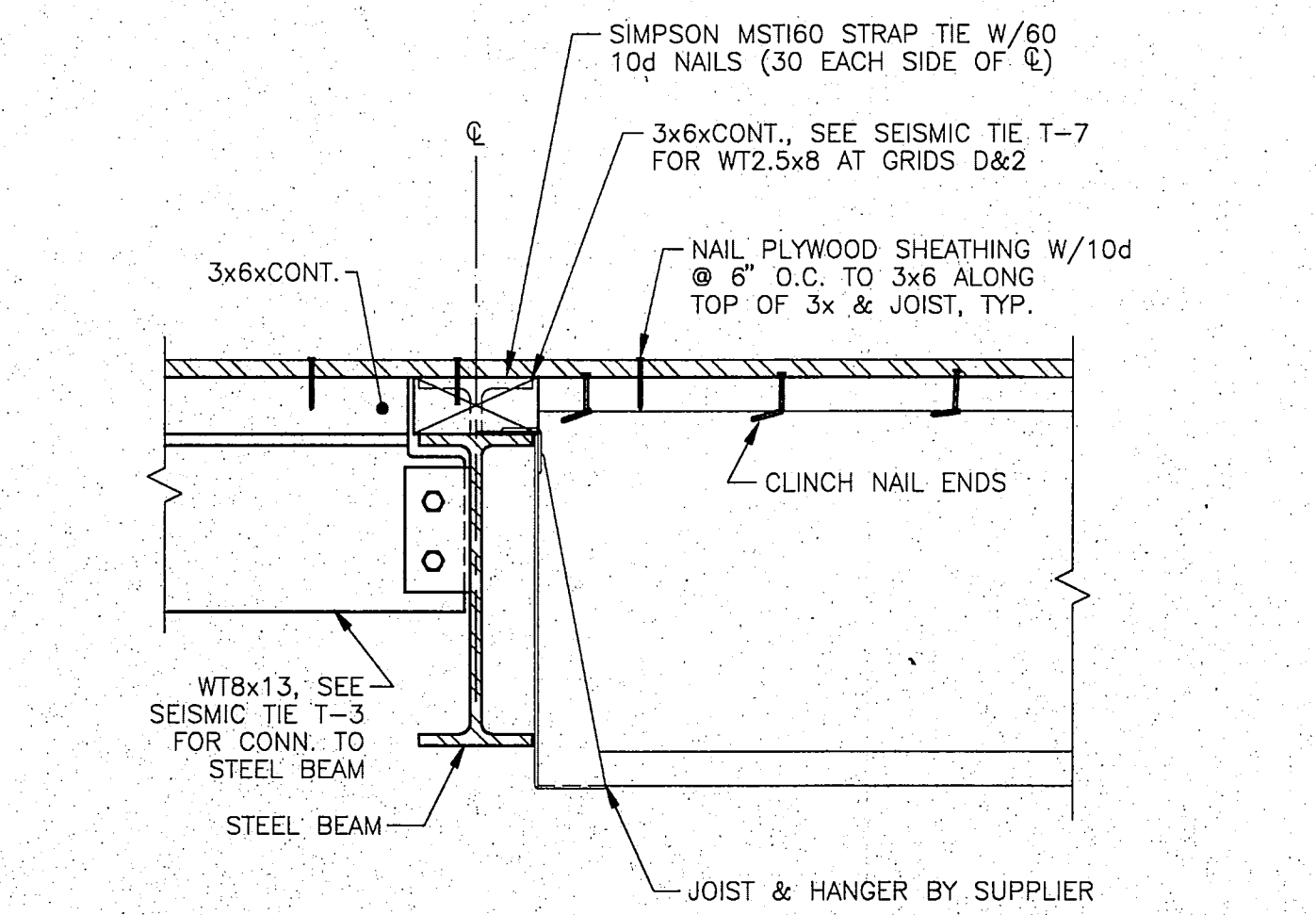
5 SEISMIC TIE T-5
1 1/2' = 1'-0" SEITYP5



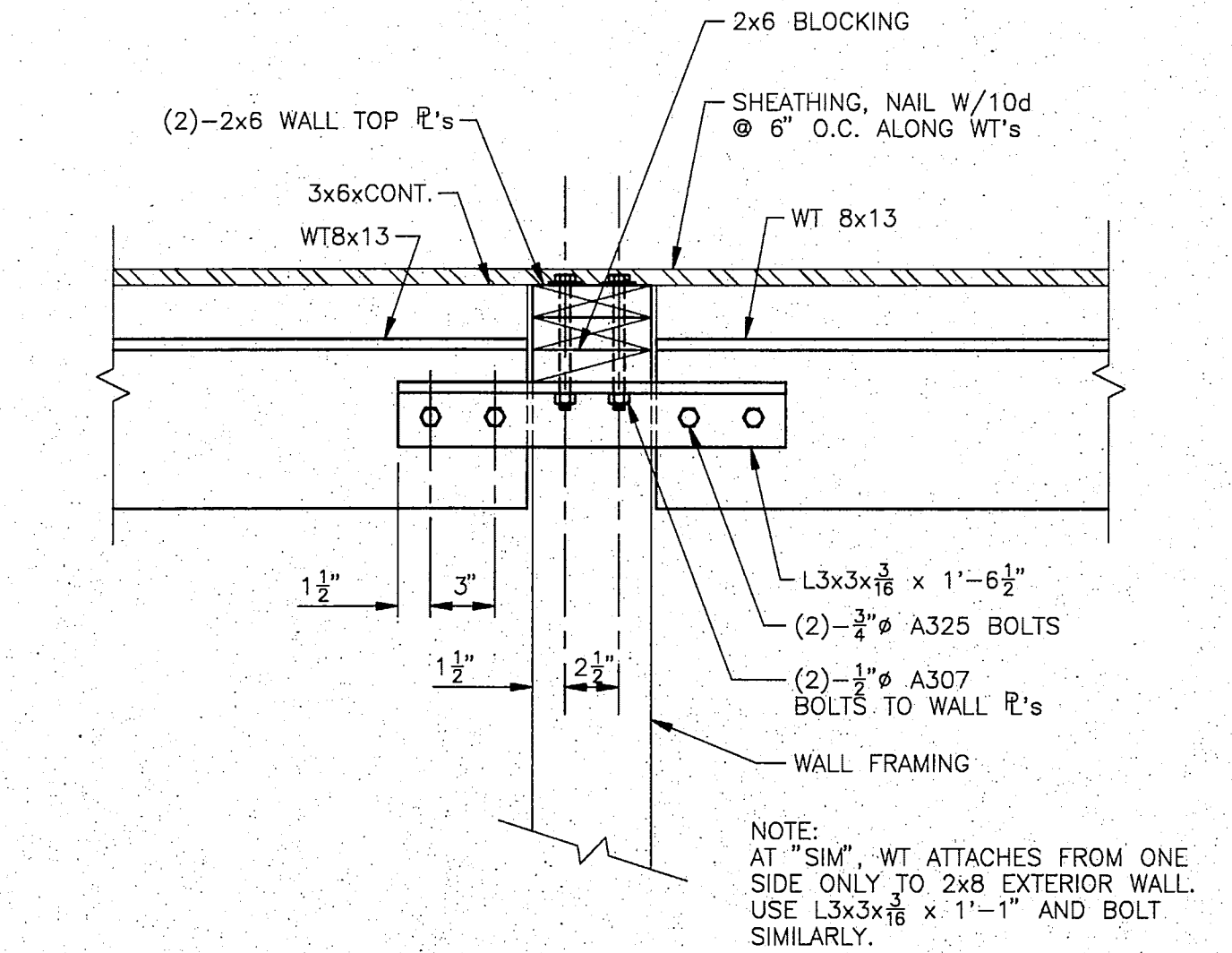
6 SEISMIC TIE T-6
1 1/2' = 1'-0" SEITYP6



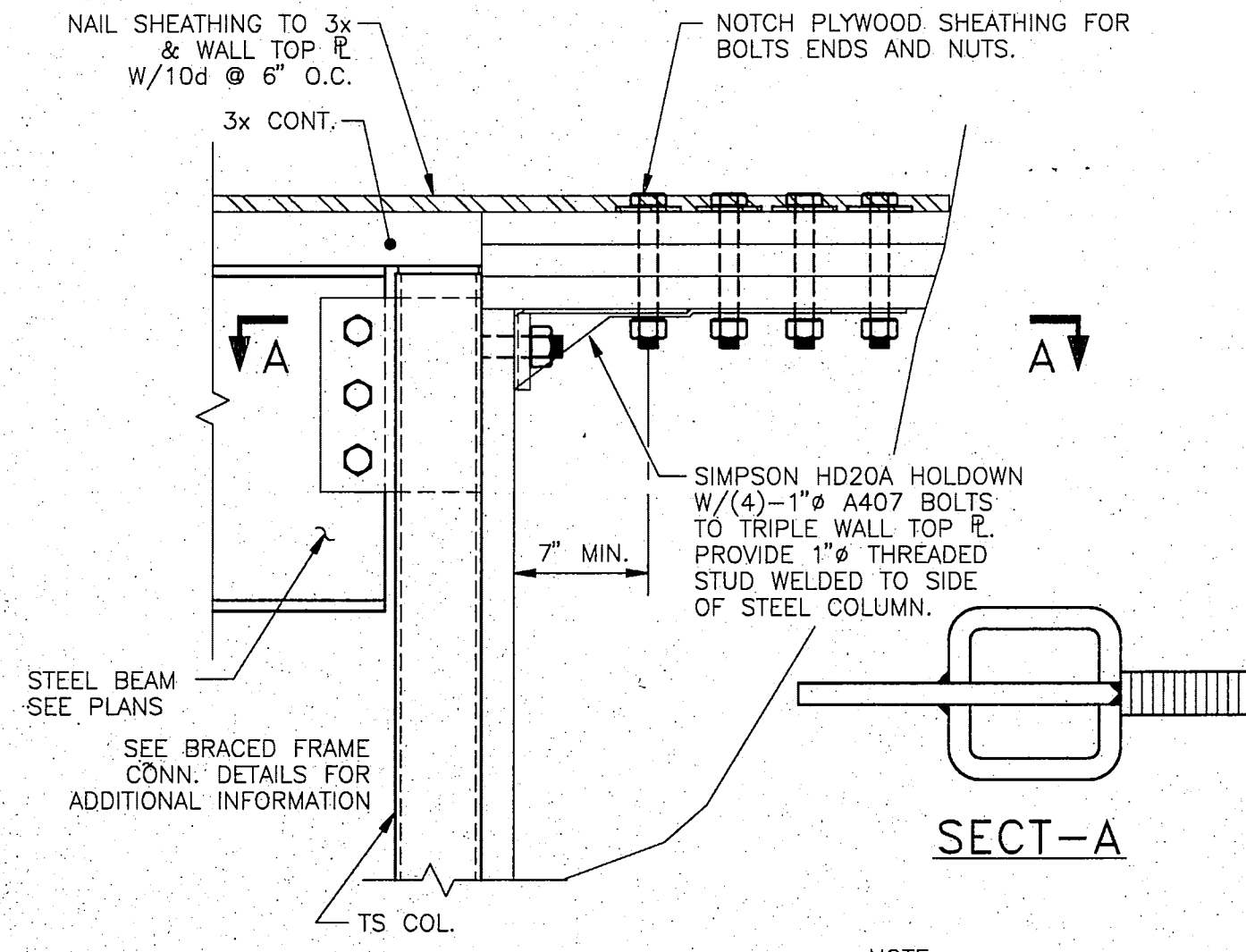
7 SEISMIC TIE T-7
1 1/2' = 1'-0" SEITYP7



9 SEISMIC TIE T-9
1 1/2' = 1'-0" SEITYP9



10 SEISMIC TIE T-10
1 1/2' = 1'-0" SEITYP10



11 SEISMIC TIE T-11
1 1/2' = 1'-0" SEITYP11

**RECORD
DRAWING**

Richard P. Bruch
CITY ENGINEER, CITY OF FAIRBANKS
DATE 4/8/96

Loftus & Dailey, Inc.
structural engineering • engineering management
1028 AURORA DRIVE
FAIRBANKS, ALASKA 99709

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

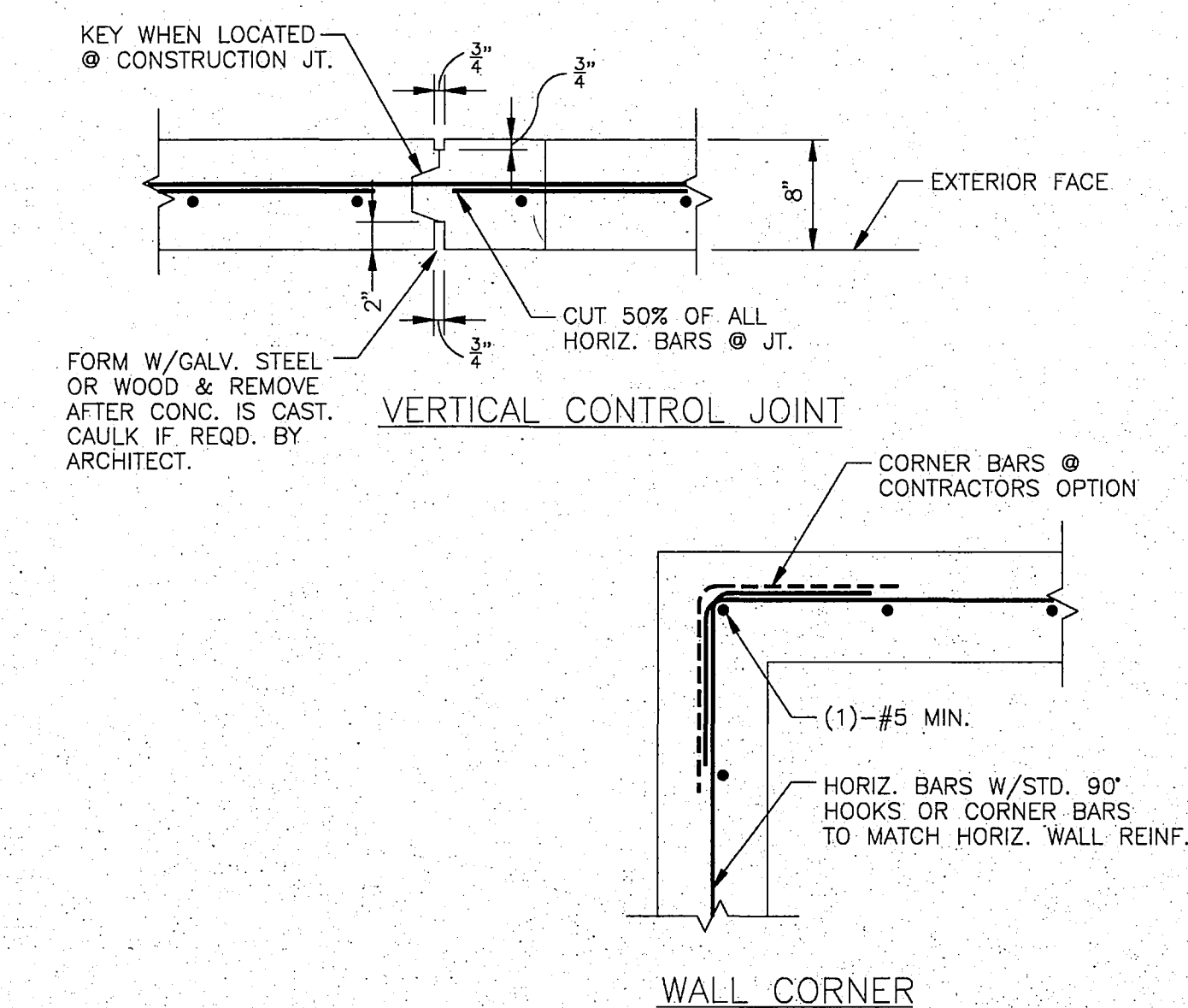
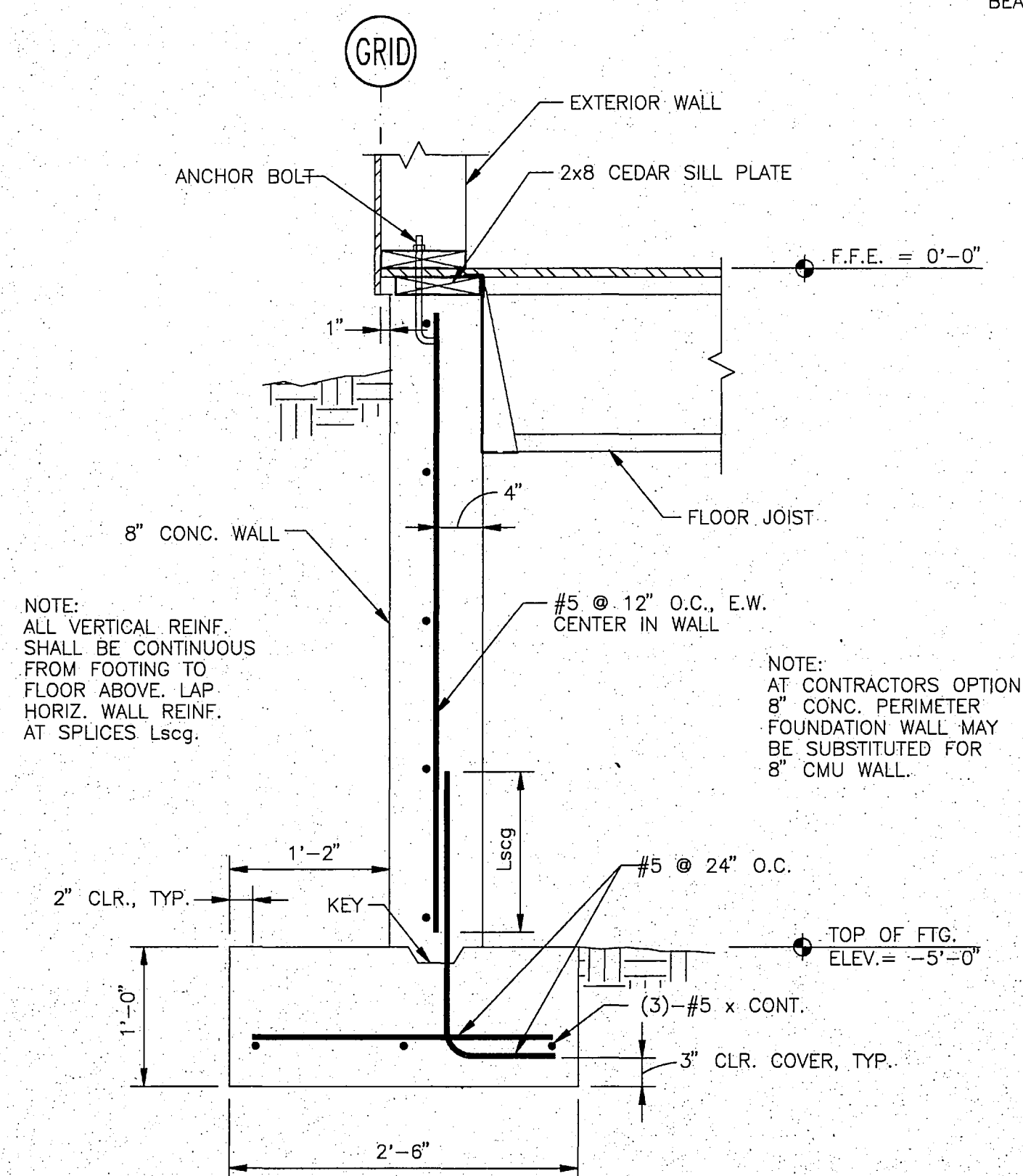
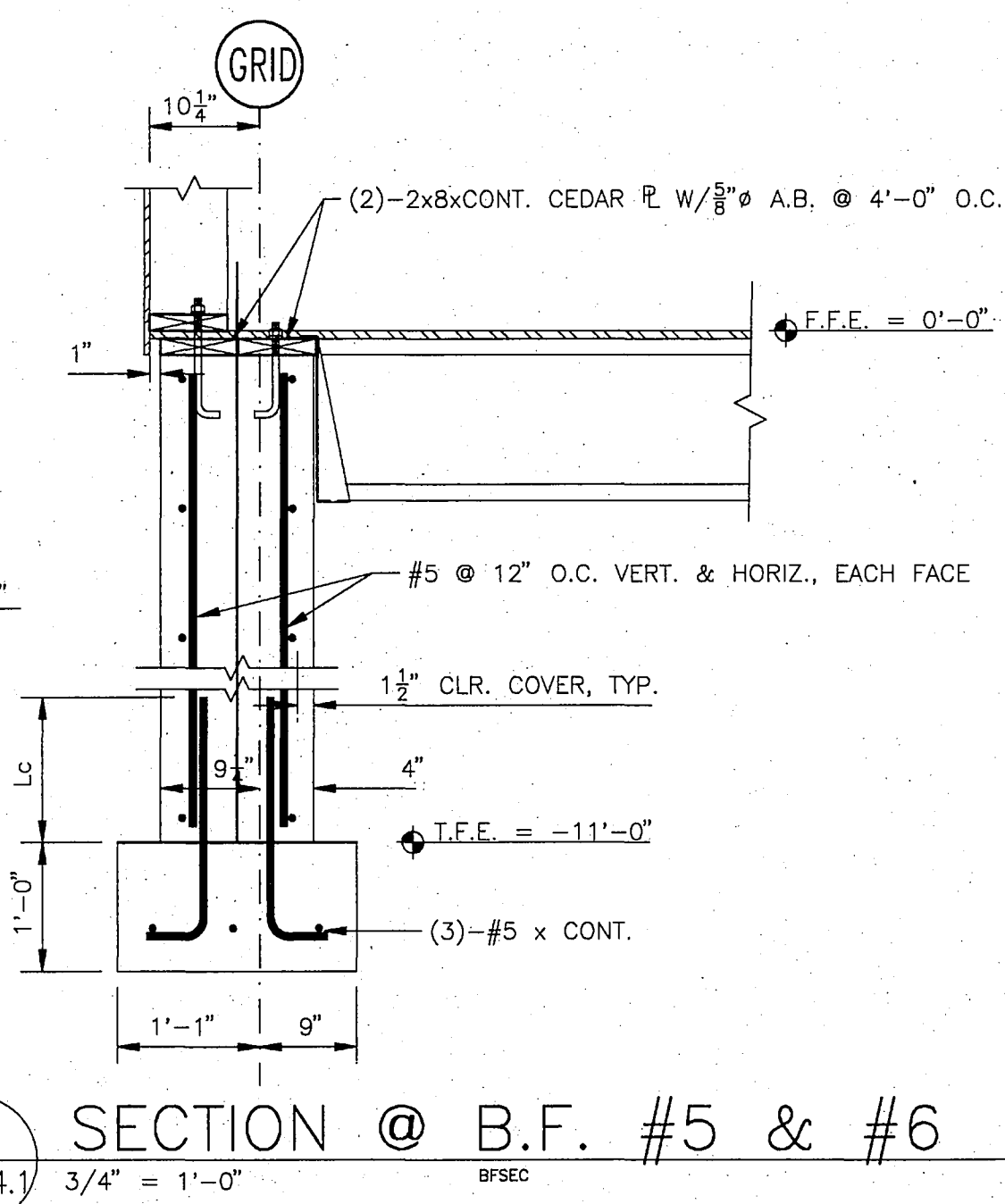
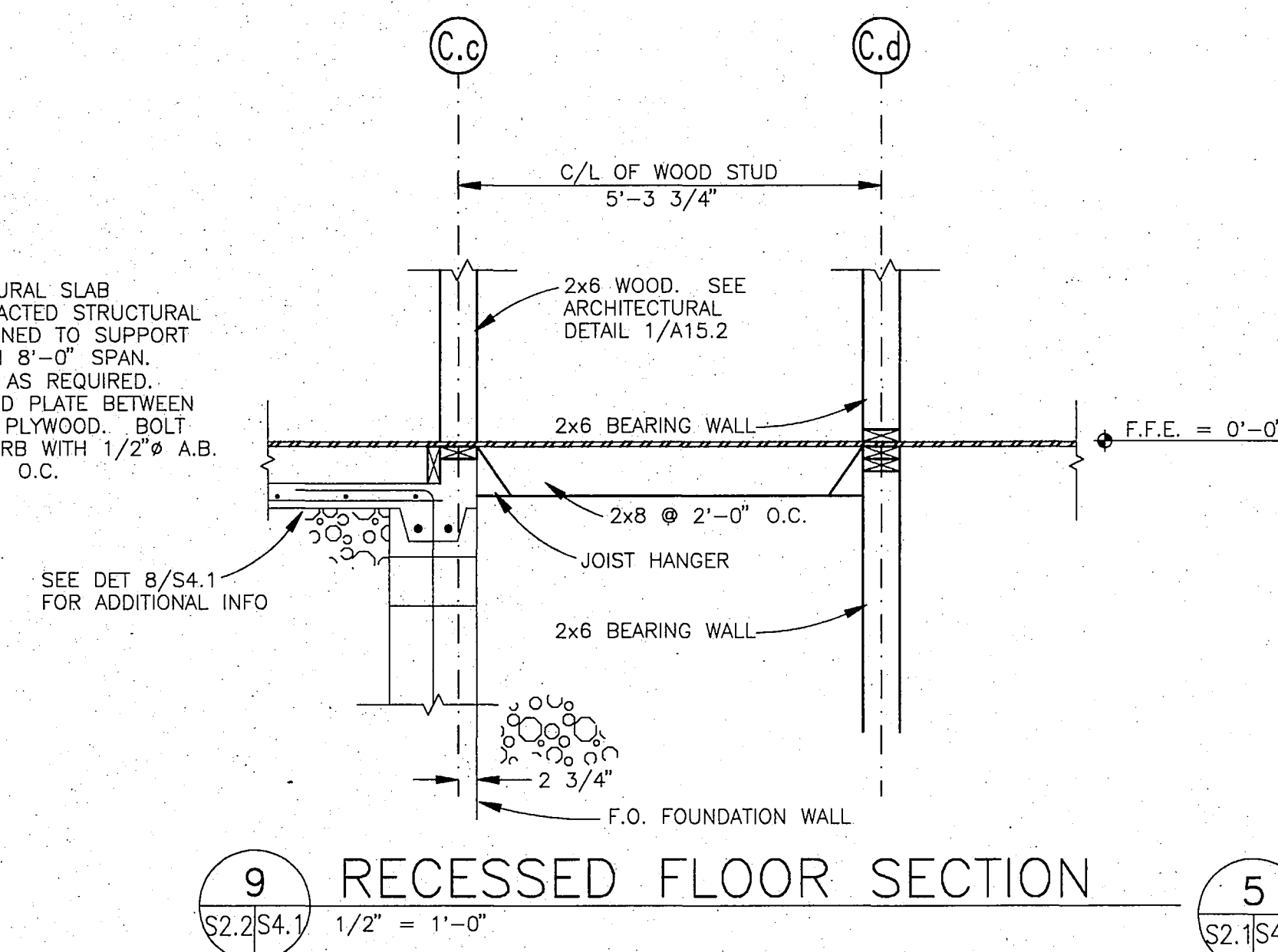
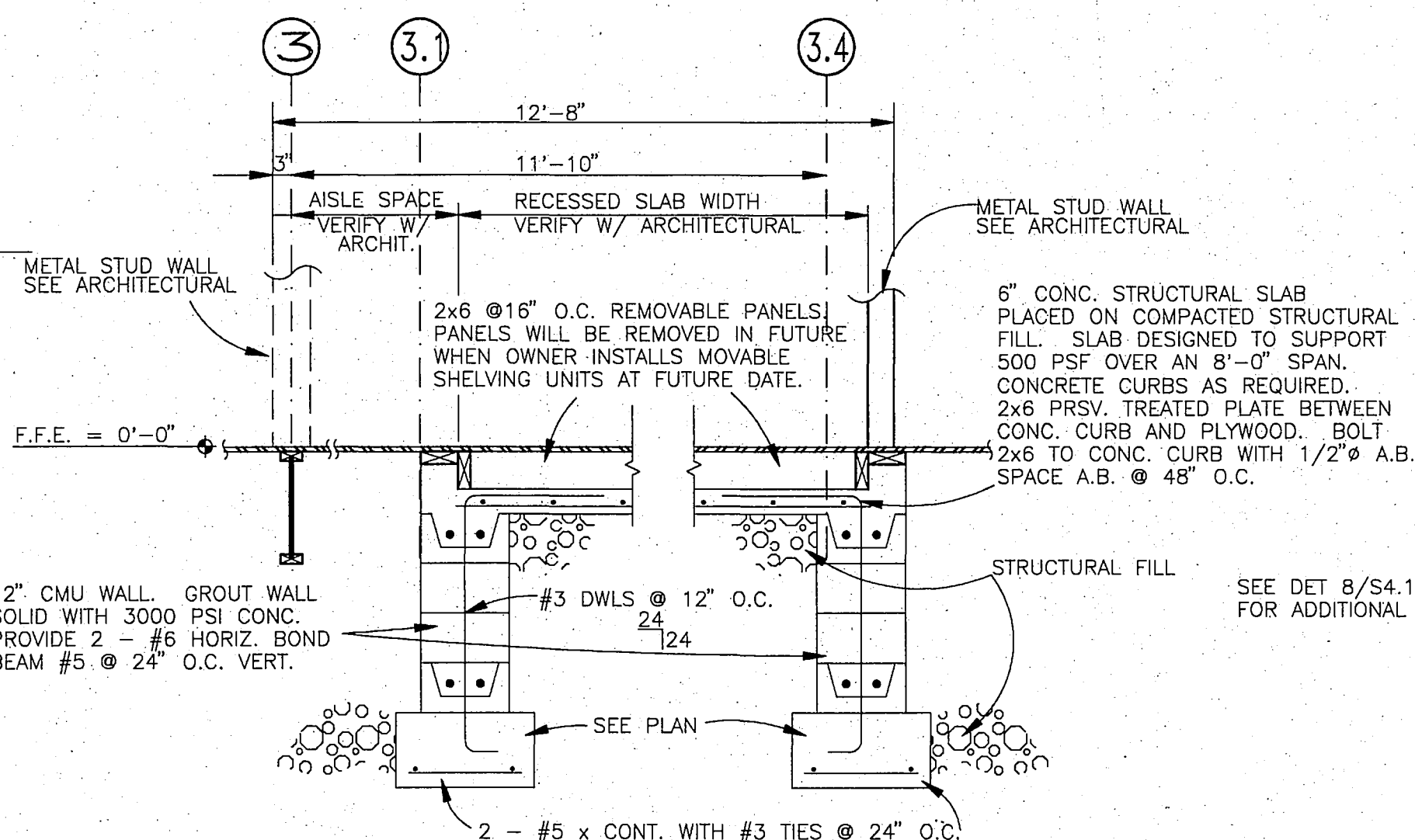
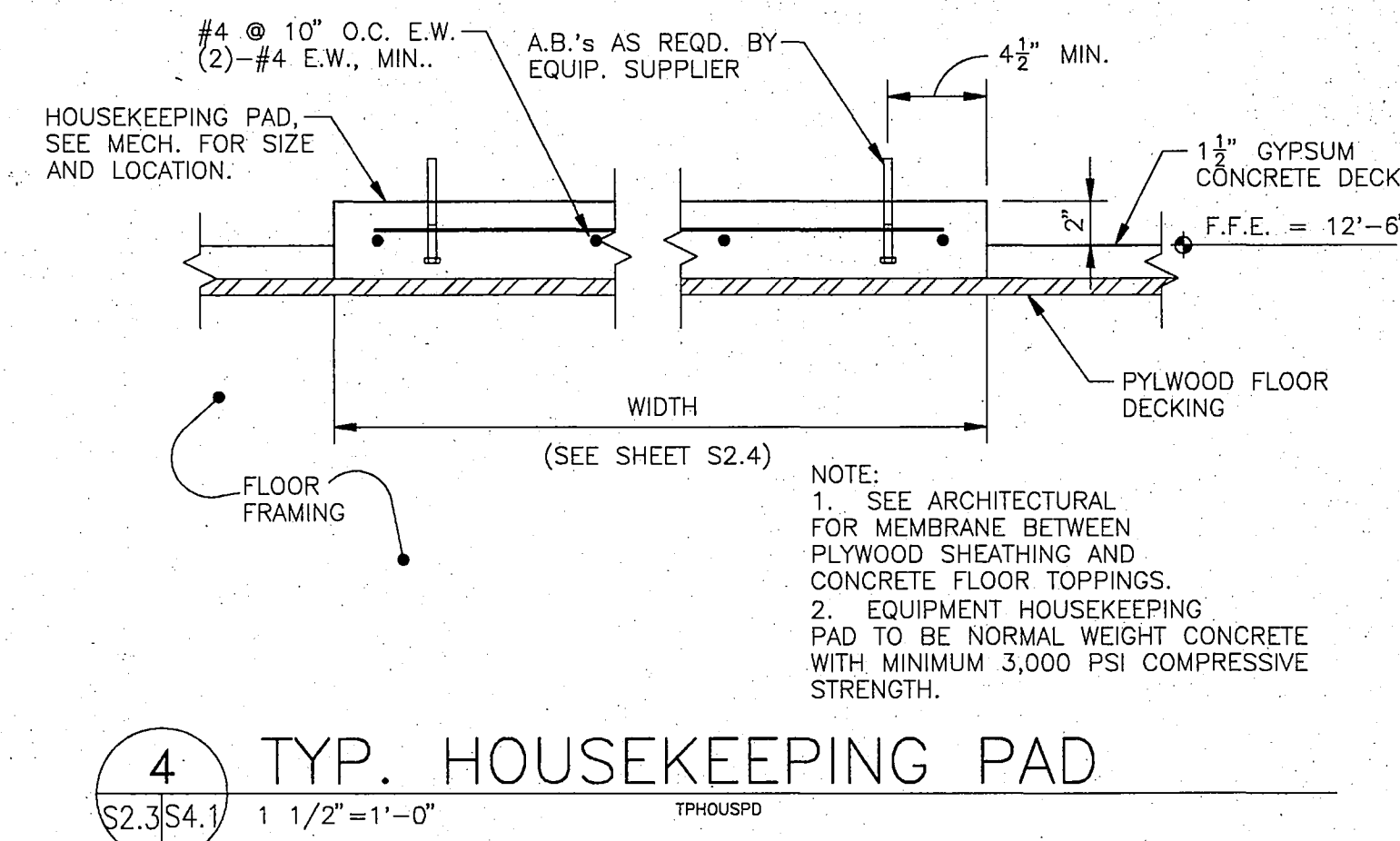
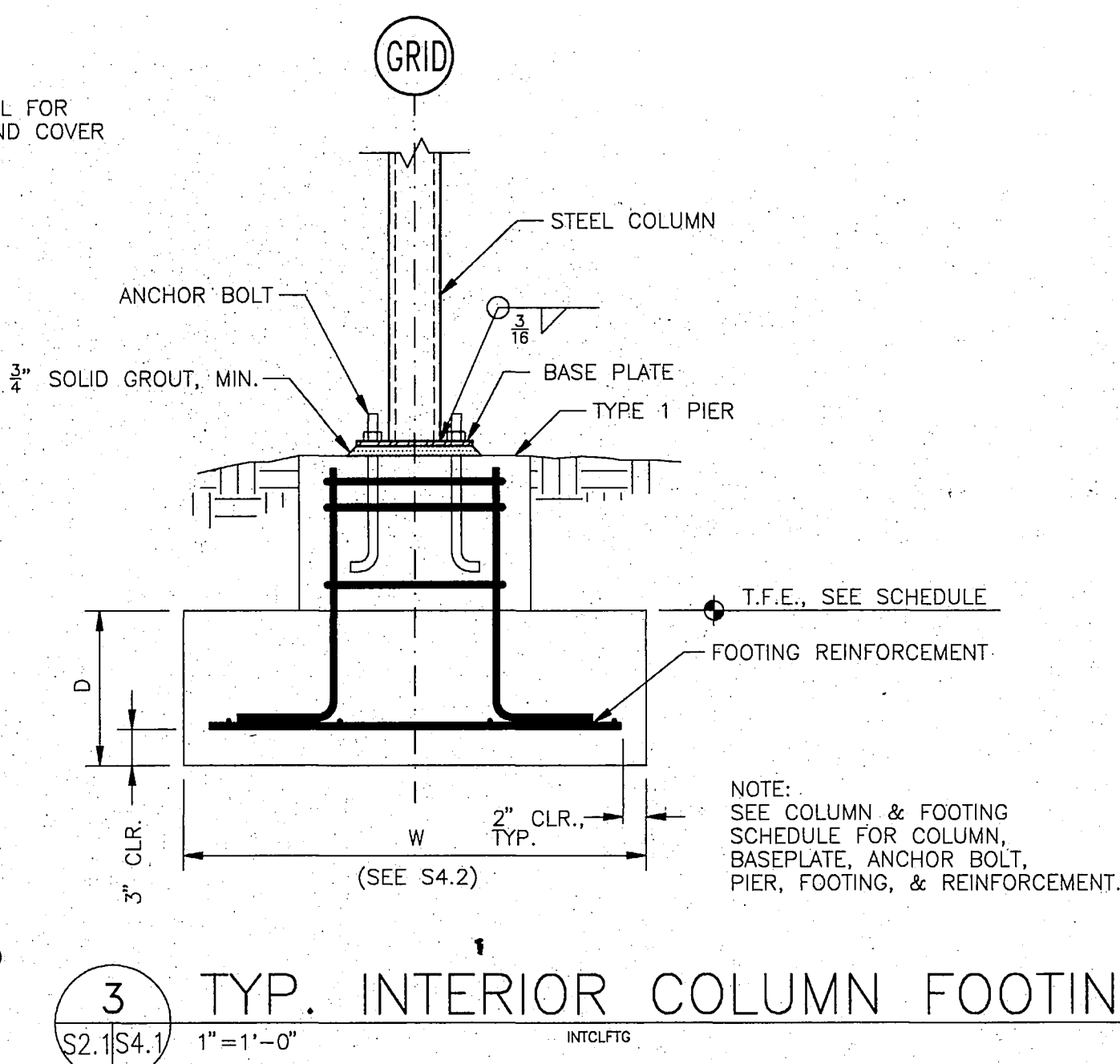
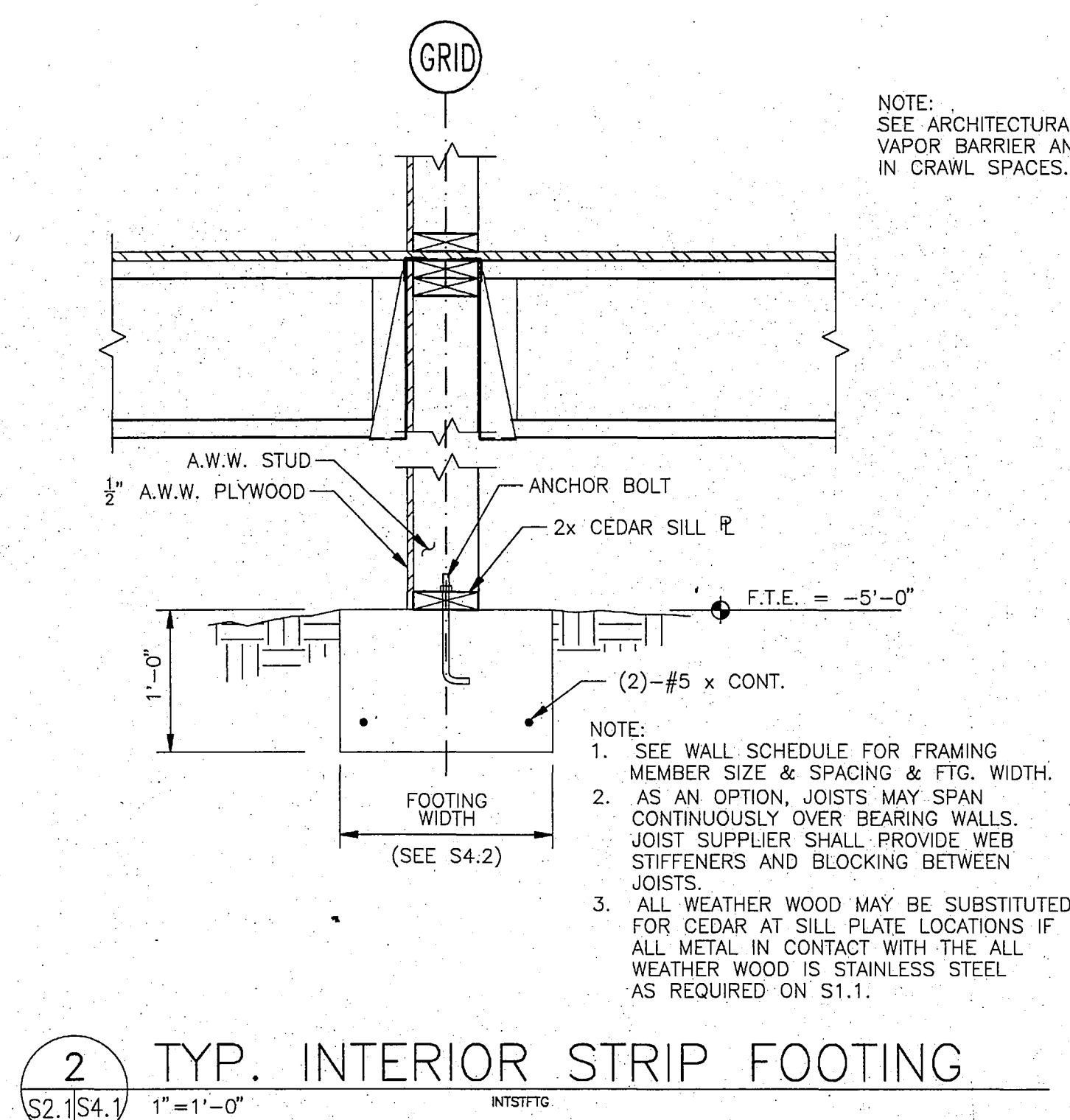
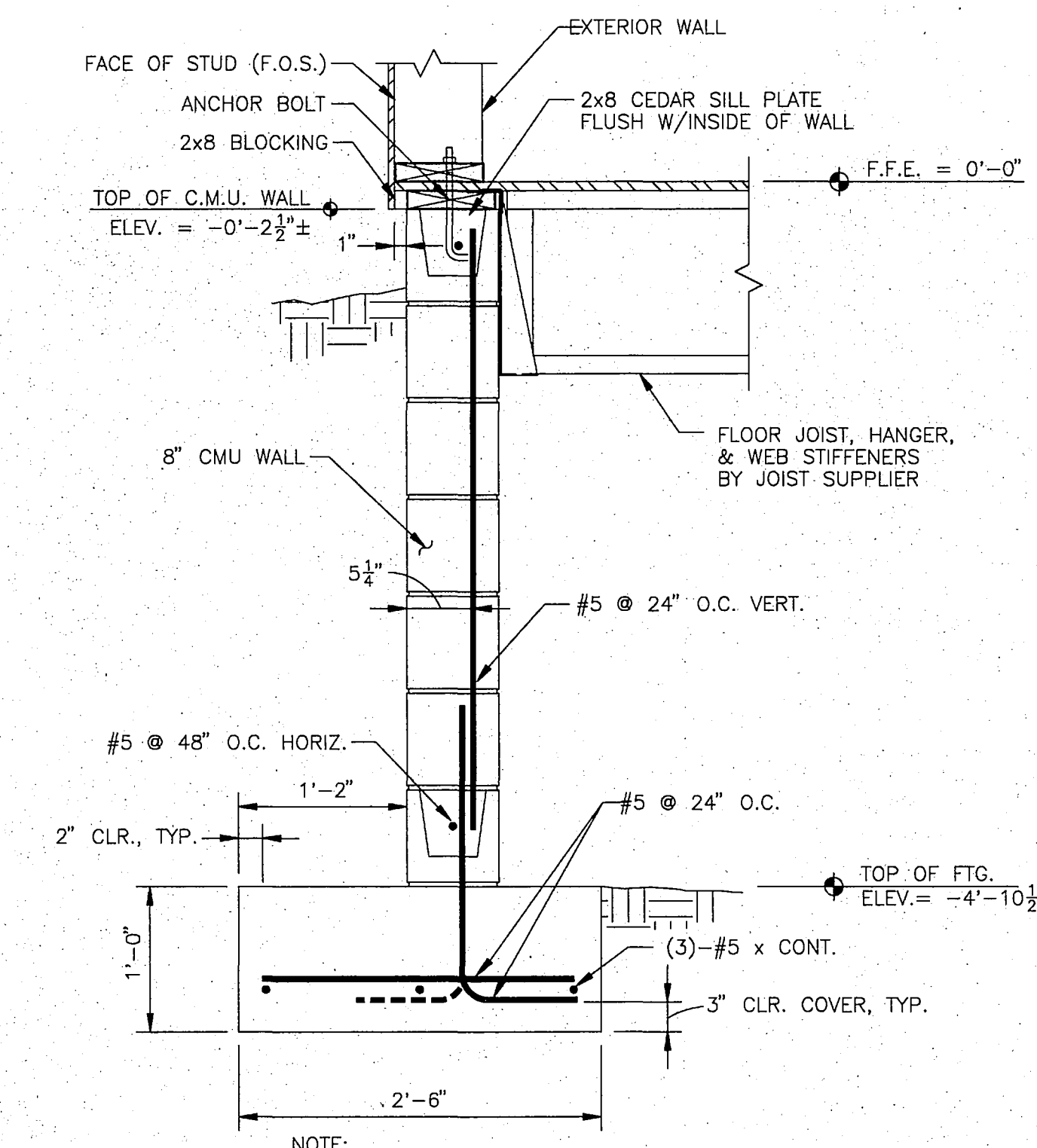
**LIVINGSTON
STONE**
Architecture Engineering
Interior Design Planning
3800 Arctic Blvd., Suite 301, Fairbanks, Alaska 99705-0190
(907) 562-2058

PROJECT NO. 91.194
DRAWN BY MGS
DESIGNED BY KEF
DATE 12/9/92
REVISED

TITLE
**SEISMIC TIE
DETAILS**

SHEET NO.

S 3.3



CONCRETE REINFORCING BAR LAP SPlice AND DEVELOPMENT LENGTHS ($f'_c = 3,000\text{psi}$)						
BAR SIZE	L_D	L_T	L_{SC}	L_{SCG}	L_B	L_C
3	12	13	15	12	9	12
4	12	17	20	16	11	13
5	15	21	26	20	14	16
6	19	27	33	26	17	19
7	26	37	45	36	20	22
8	35	48	59	47	22	25

RECORD DRAWING

Rufus Bernick
CITY ENGINEER, CITY OF FAIRBANKS

DATE: 4/8/96

Loftus & Dailey, Inc.
structural engineering • engineering management

1028 AURORA DRIVE
FAIRBANKS, ALASKA 99709

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

**LIVINGSTON
STONE**
Architecture Engineering
Interior Design Planning
10000 Park Road
Houston, Texas 77036
713/865-1000
www.livingstonstone.com

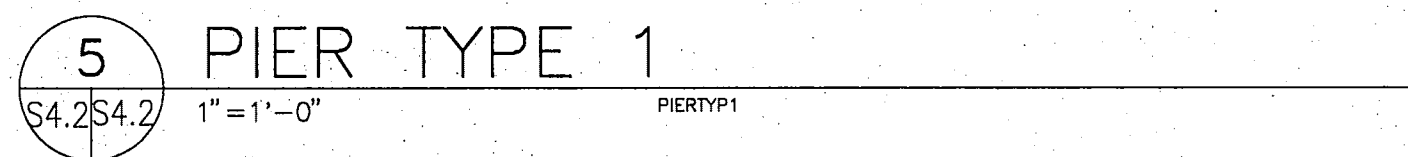
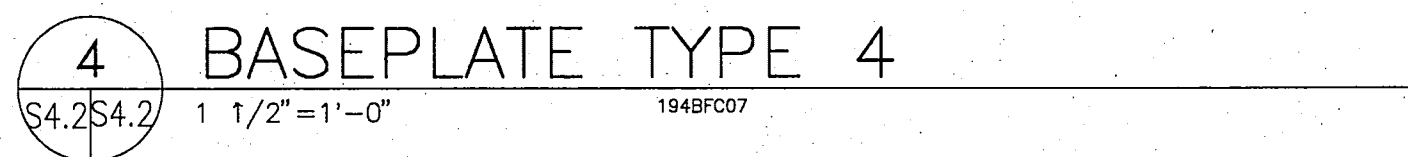
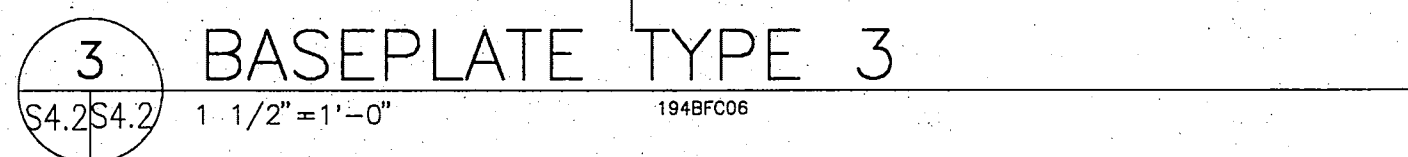
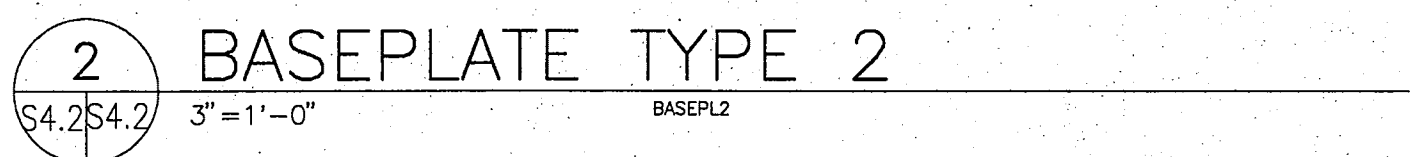
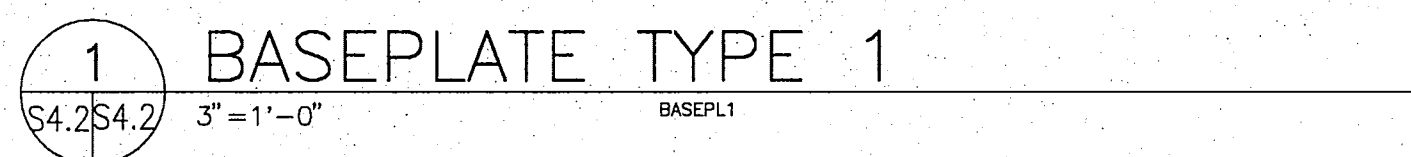
3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2058

PROJECT NO.	91.194
DRAWN BY	MGS
DESIGNED BY	KEF
DATE	12/9/92
REVISED	

TITLE
TYPICAL
FOUNDATION
DETAILS
SHEET NO.

S 4.1

F 3.0. 036



GRID	FROM	TO	FRAMING: MAX. STUD SPACING (INCHES)			FOOTING WIDTH	COMMENTS
			2nd	1st	FDTN.		
2.8	A.b	B	—	—	24	1'-6"	
3.2	A.a	B	—	—	24	1'-6"	
3.7	A.a	B	—	—	24	1'-6"	
4	*A.d	B	—	24	24	1'-6"	*WALL EXTENDS 5'-9" LEFT OF A.d
5	A.g	C.d	24	—	—	1'-6"	
5	*A.d	D	—	24	24	1'-6"	
A.e	+1.2	2.8	—	—	24	1'-6"	*WALL STARTS~4'-0" SOUTH OF 1.2
A.g	4	5	—	24	24	1'-6"	
B	2.8	4	—	—	24	1'-6"	
B	2	2.8	—	24	24	1'-6"	
B.a	4	5	—	—	24	1'-6"	
B.b	1.1	2	—	24	24	1'-6"	
C	3	4.4	—	—	24	1'-6"	
C.a	2.5	3	24	—	—	—	
C.a	2	3	—	12	12	2'-0"	
C.c	3	3.4	—	—	—	—	
C.d	1.1	5	—	12	12	2'-0"	
D	1:1	4.5	—	12	16	2'-0"	

NOTES:

- ALL INTERIOR WOOD STUD BEARING WALLS AT FIRST & SECOND FLOOR LEVELS SHALL BE DOUG-FIR-LARCH NO. 2 OR BETTER. STUDS SHALL BE 2x6'S, AND SHALL BE SHEATHED WITH A MINIMUM OF 1 LAYER OF GYP. BD. ON EACH FACE.
- ALL INTERIOR WOOD FRAME FOUNDATION WALLS SHALL BE CONSTRUCTED OF A.W.W. FRAMING LUMBER AND CEDAR BOTTOM PLATES WHERE IN CONTACT WITH CONCRETE OR CMU, STAINLESS STEEL NAILS, TYPICAL ANCHOR BOLTS, AND 1/2" A.W.W. PLYWOOD SHEATHING ONE FACE. NAIL SHEATHING W/10d S.S. BOX NAILS @ 6" O.C. AT EDGES, FIELD NAIL @ 8" O.C. ALL STUDS SHALL BE 2x6.
- CENTER STUDS UNDER JOISTS.
- WOOD STUDS IN CONTACT WITH STEEL TUBE COLUMNS SHALL BE FASTENED TO THE STEEL COLUMNS WITH A #12 SELF-TAPPING SCREW @ 1'-0" O.C.

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

Fairbanks, Alaska

**LIVINGSTON
STONE**
Architecture Engineering
Interior Design Planning
incorporated

3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790

PROJECT NO. 91.194

DRAWN BY MGS

DESIGNED BY KEF

DATE 12/9/9

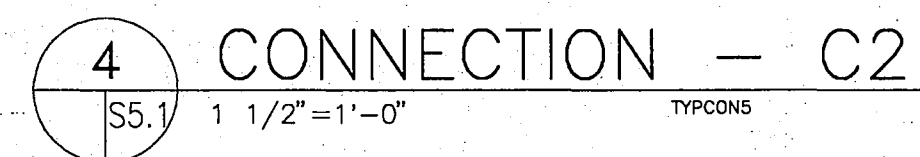
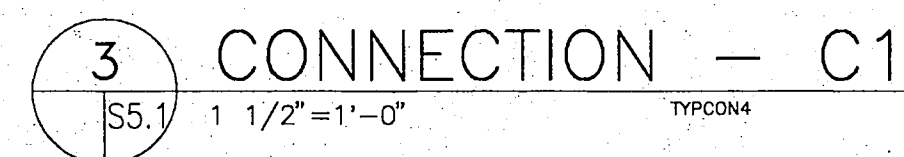
REVISÉ

TITLE
FDTN. SCHEDS.
AND DETAILS

SHEET NO.

S 4.2

F3.0.035



WOOD 6x8 COLUMN, BELOW

GRID

3/16"

3/16"

1 3/4"

T.S.E.

A A

STEEL BEAM
SEE PLANS

6x8 COL. IN
EXTERIOR WALL

2 1/2"

1 1/2"

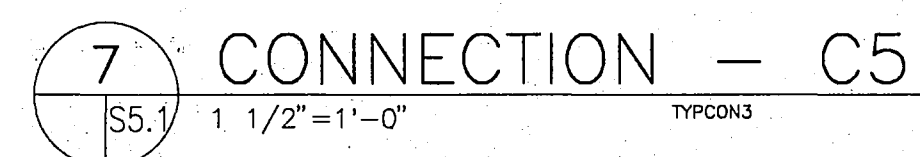
2"

3/4"

(2) - 3/4" A307
THRU BOLTS

SECTION A-A

NOTE:
AT W14x22, WELD PLATE
TO BOTTOM FLANGE FOR
ATTACHMENT OF STEEL PL's,
THAT ARE TO BE BOLTED
TO SIDES OF COLUMN.

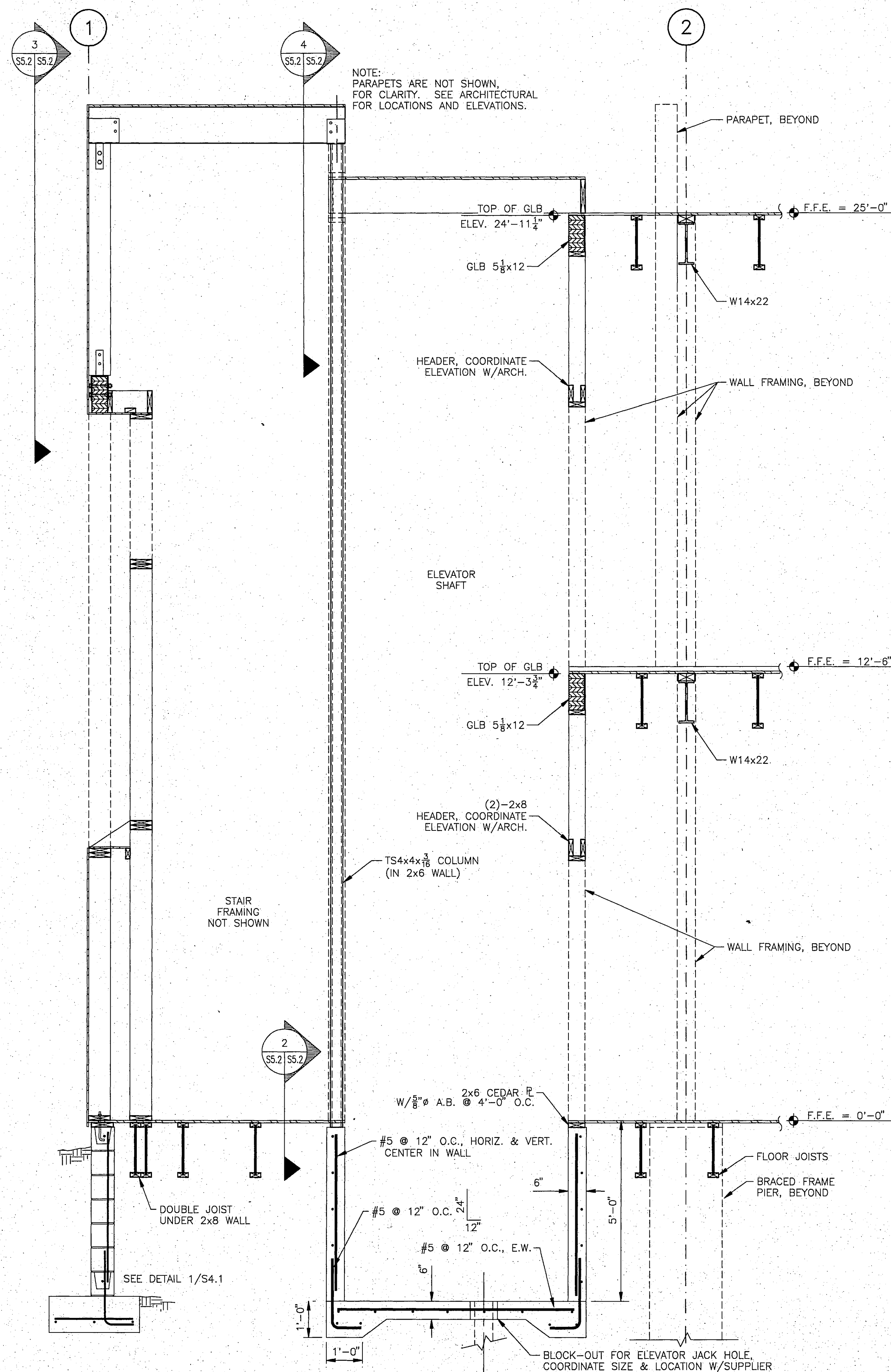


1028 AURORA DRIVE
FAIRBANKS, ALASKA 99709

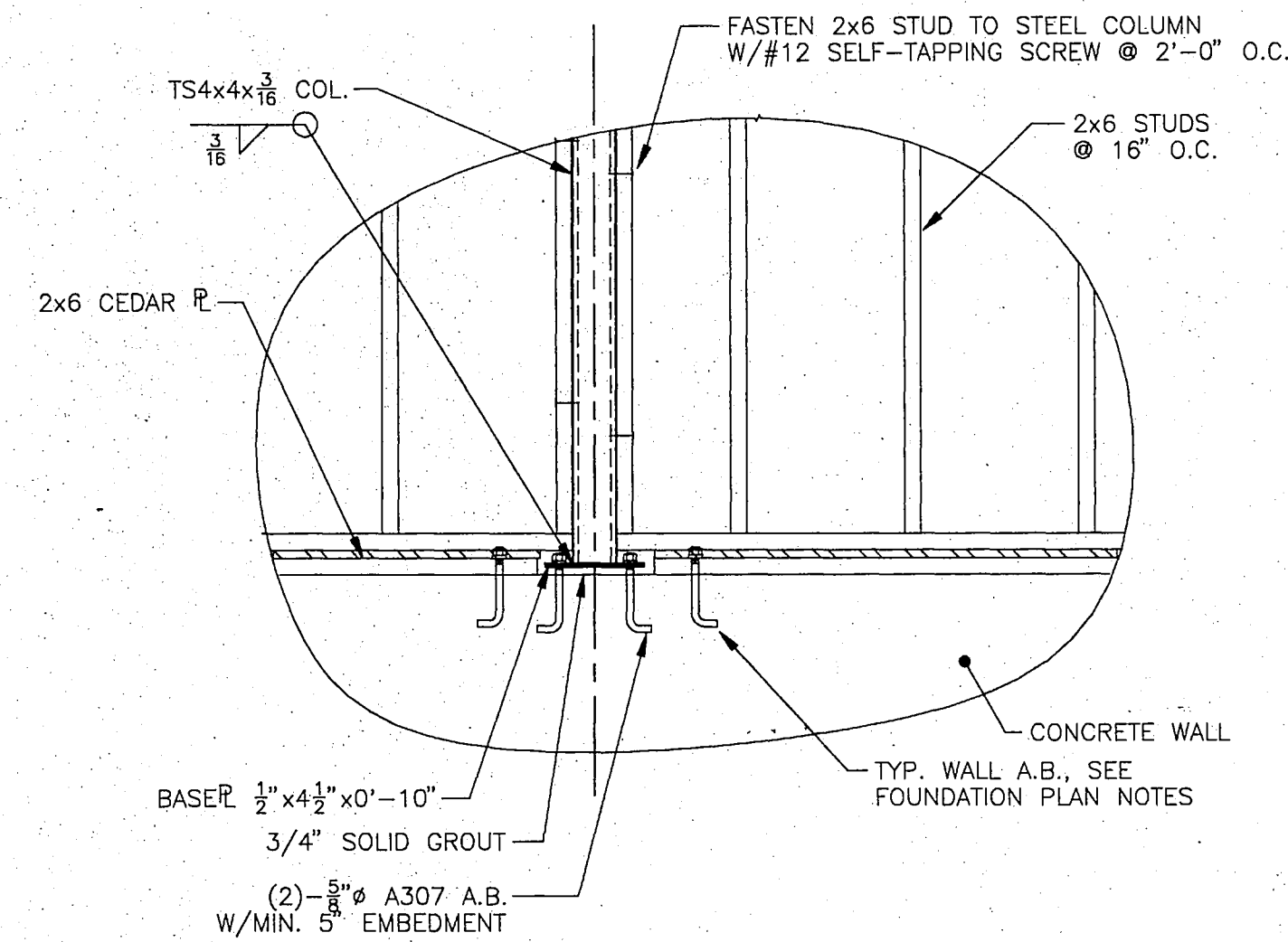
3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2058

S 5.1

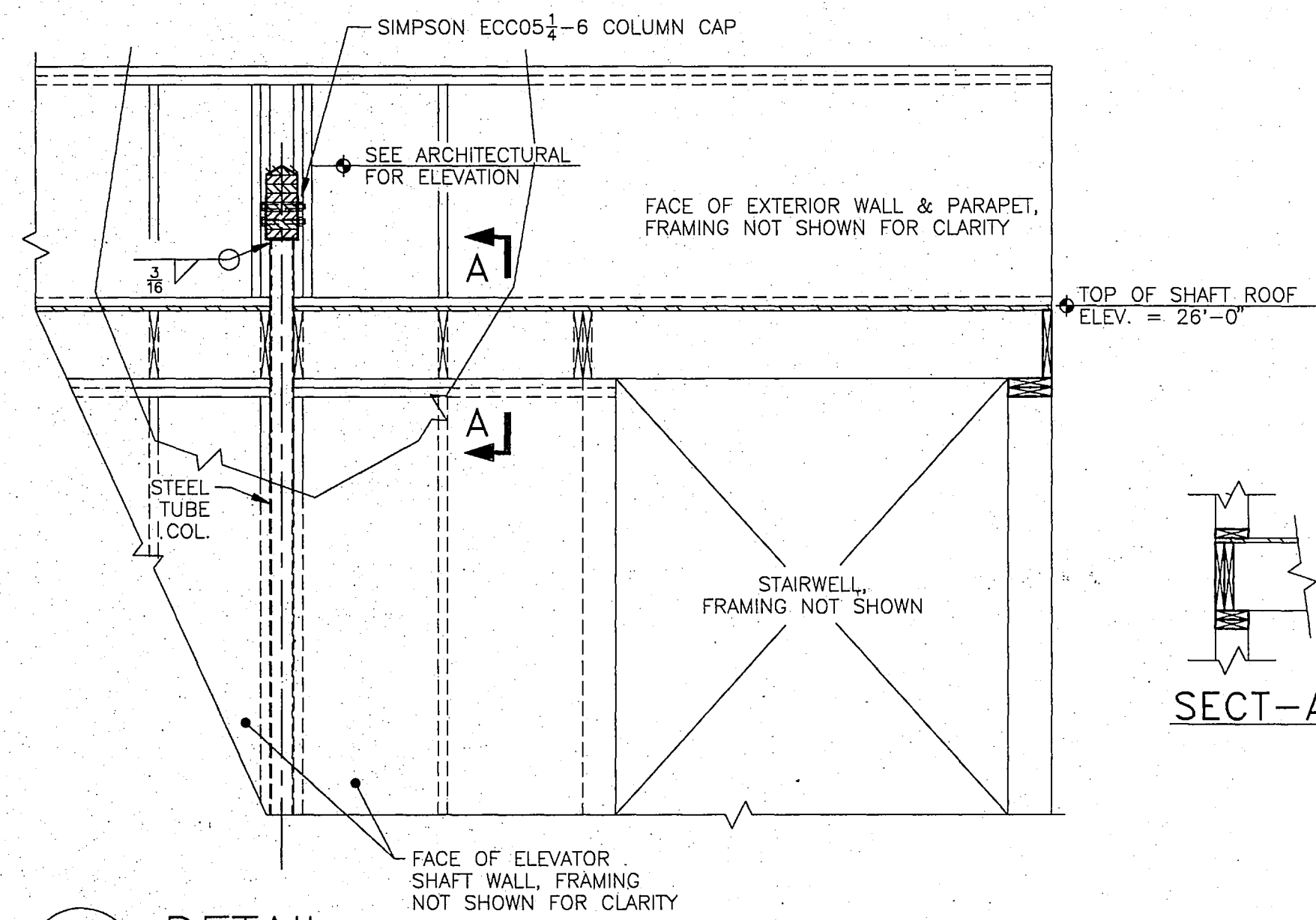
F3.0.034



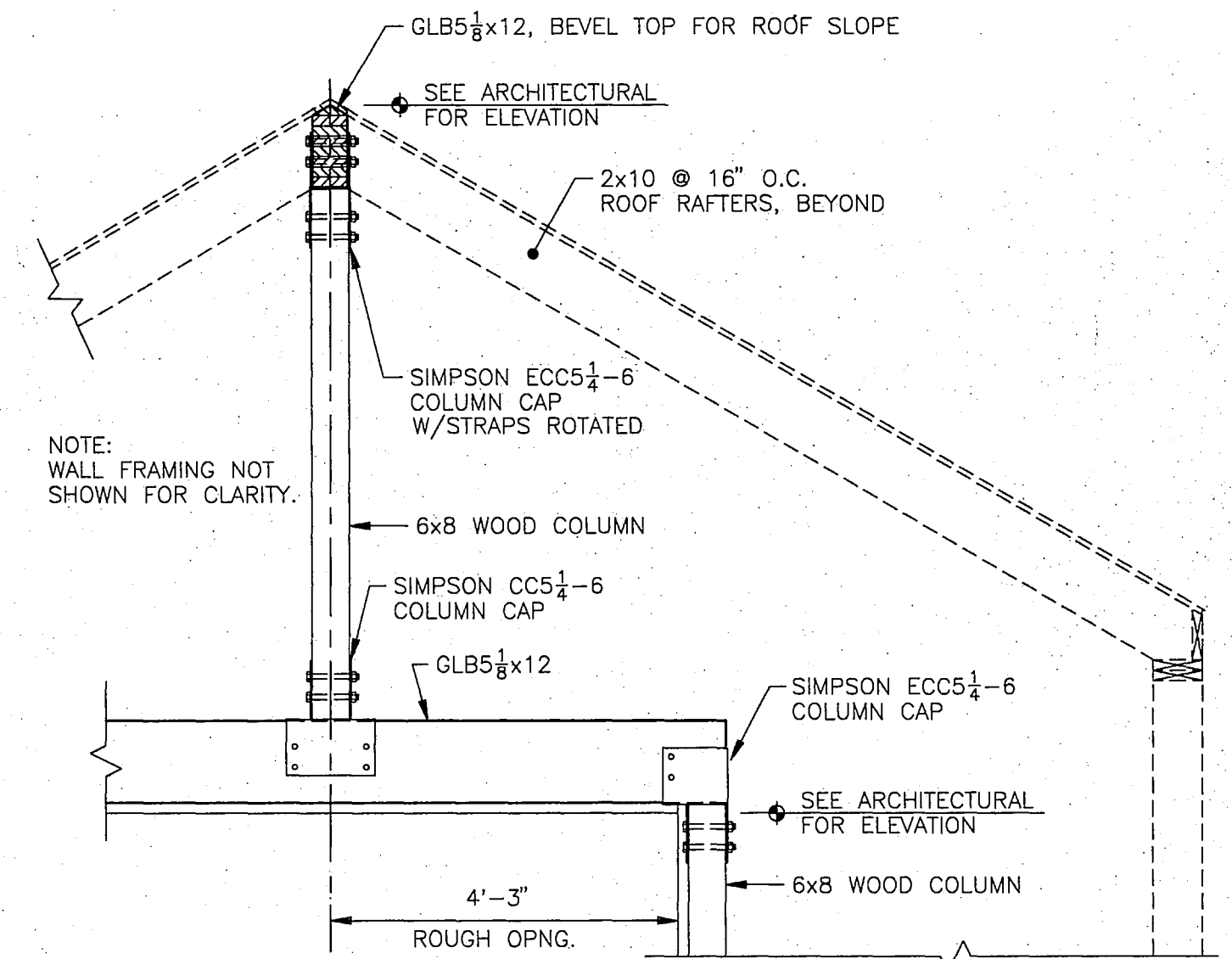
1 SECTION AT ELEVATOR SHAFT
S2.25S5.2 1/2" = 1'-0" ELEVSEC1



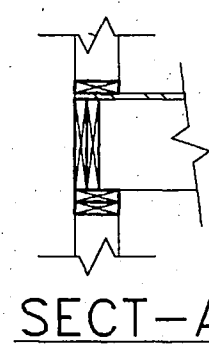
2 DETAIL
S5.2S5.2 3/4" = 1'-0" ELEVDET1



4 DETAIL
S5.2S5.2 1/2" = 1'-0" ELEVDET5



3 DETAIL
S5.2S5.2 1/2" = 1'-0" ELEVDET2



SECT-A

**RECORD
DRAWING**

Robert B. Dailey
CITY ENGINEER, CITY OF FAIRBANKS
DATE 9/18/92

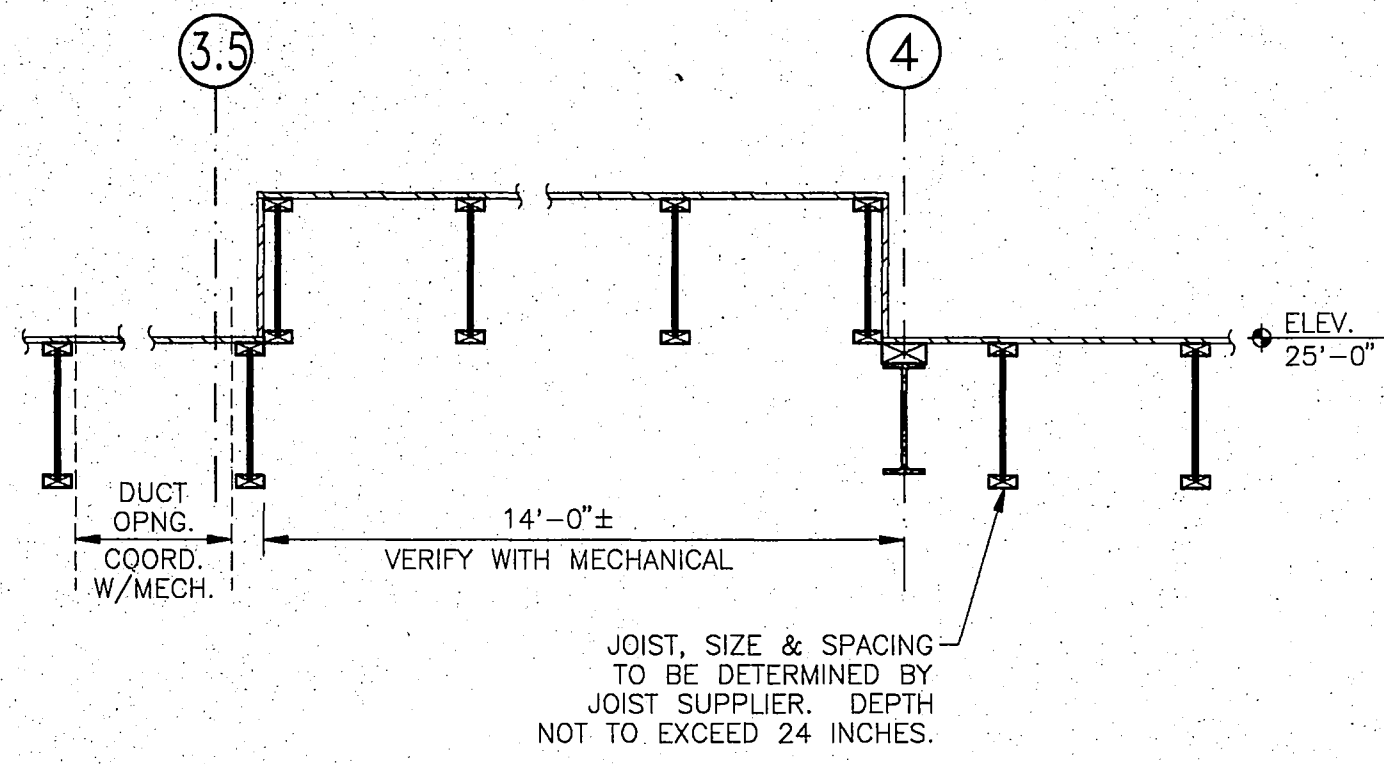
Loftus & Dailey, Inc.
structural engineering • engineering management
1028 AURORA DRIVE
FAIRBANKS, ALASKA 99709

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

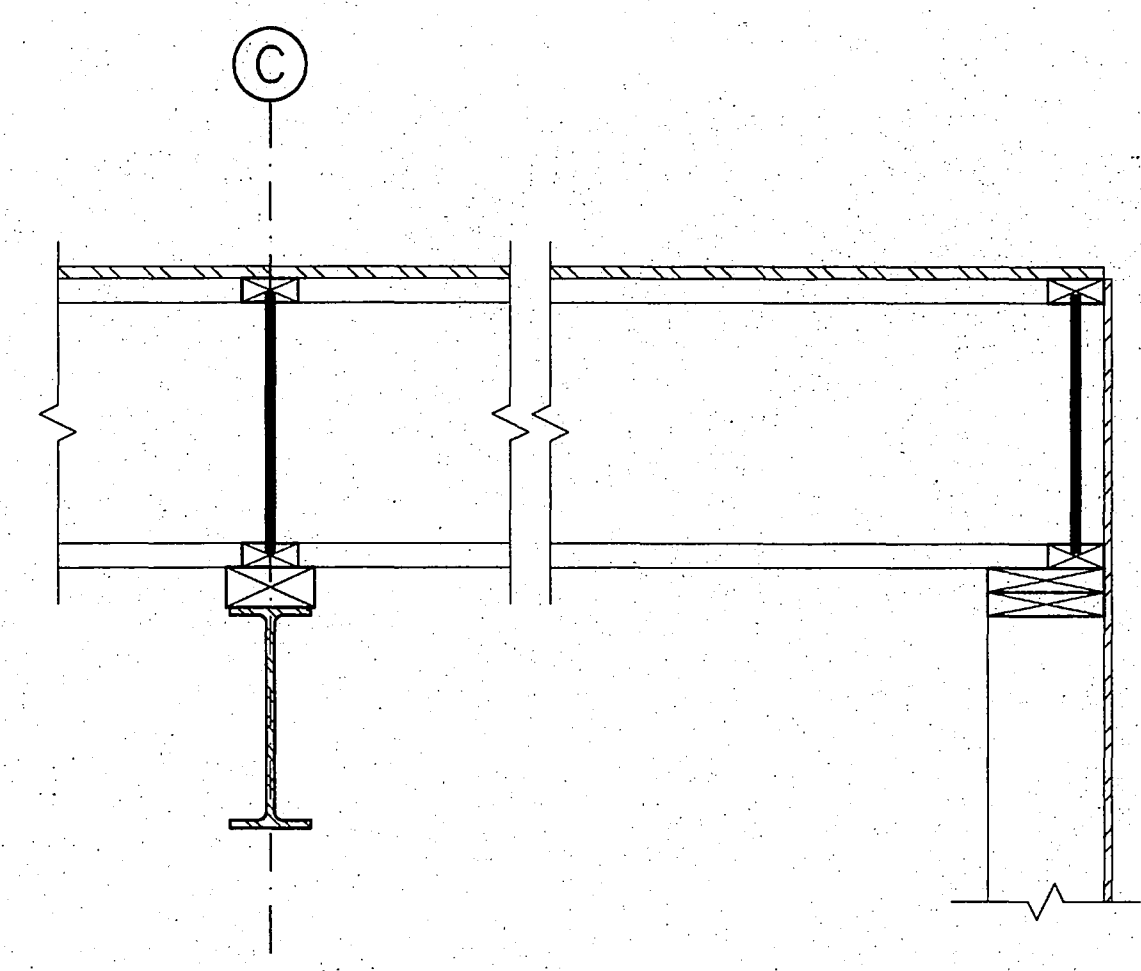
**LIVINGSTON
STONE**
Architecture Engineering Planning
2800 Arctic Blvd., Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2058

PROJECT NO. 91.194
DRAWN BY KEF
DESIGNED BY KEF
DATE 12/9/92
REVISED
TITLE
SECTIONS
& DETAILS
SHEET NO.

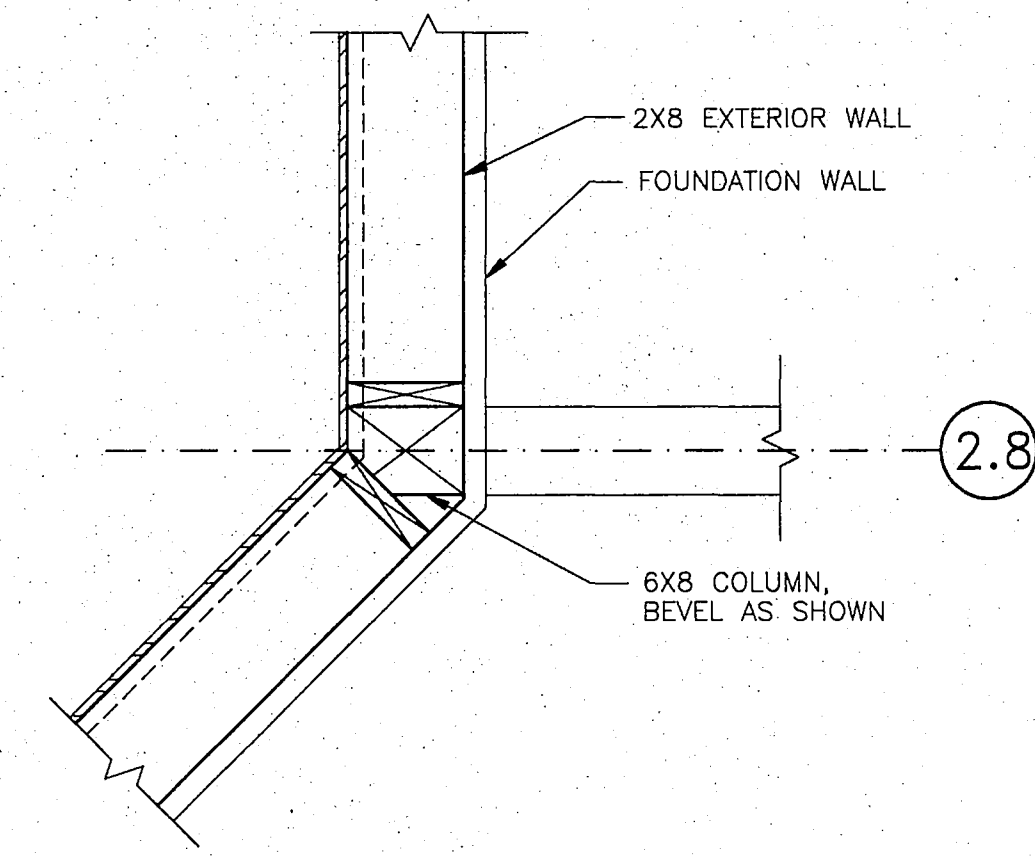
S 5.2



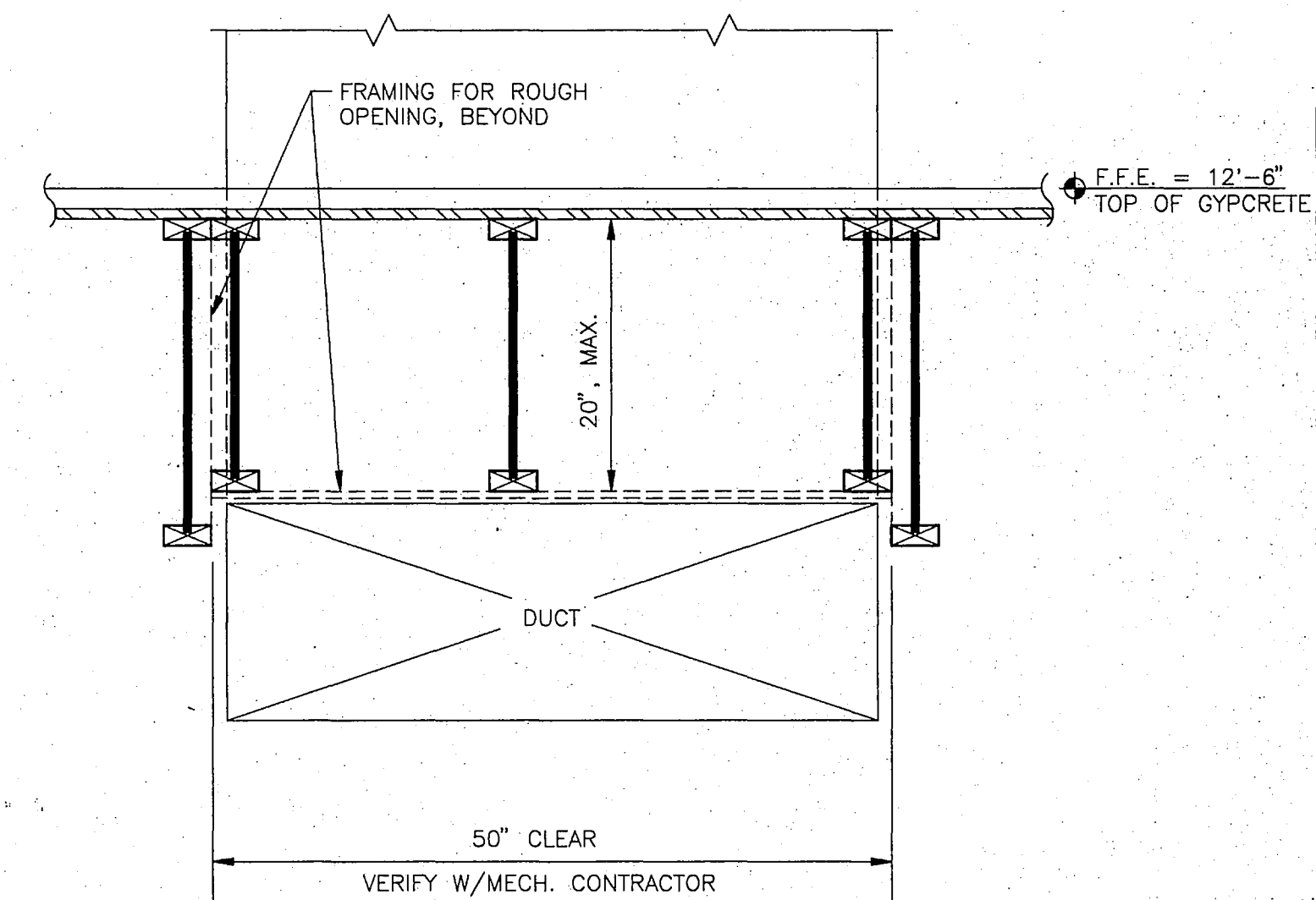
1 SECTION
S2.4 S5.3 1/2" = 1'-0" MECHROOF



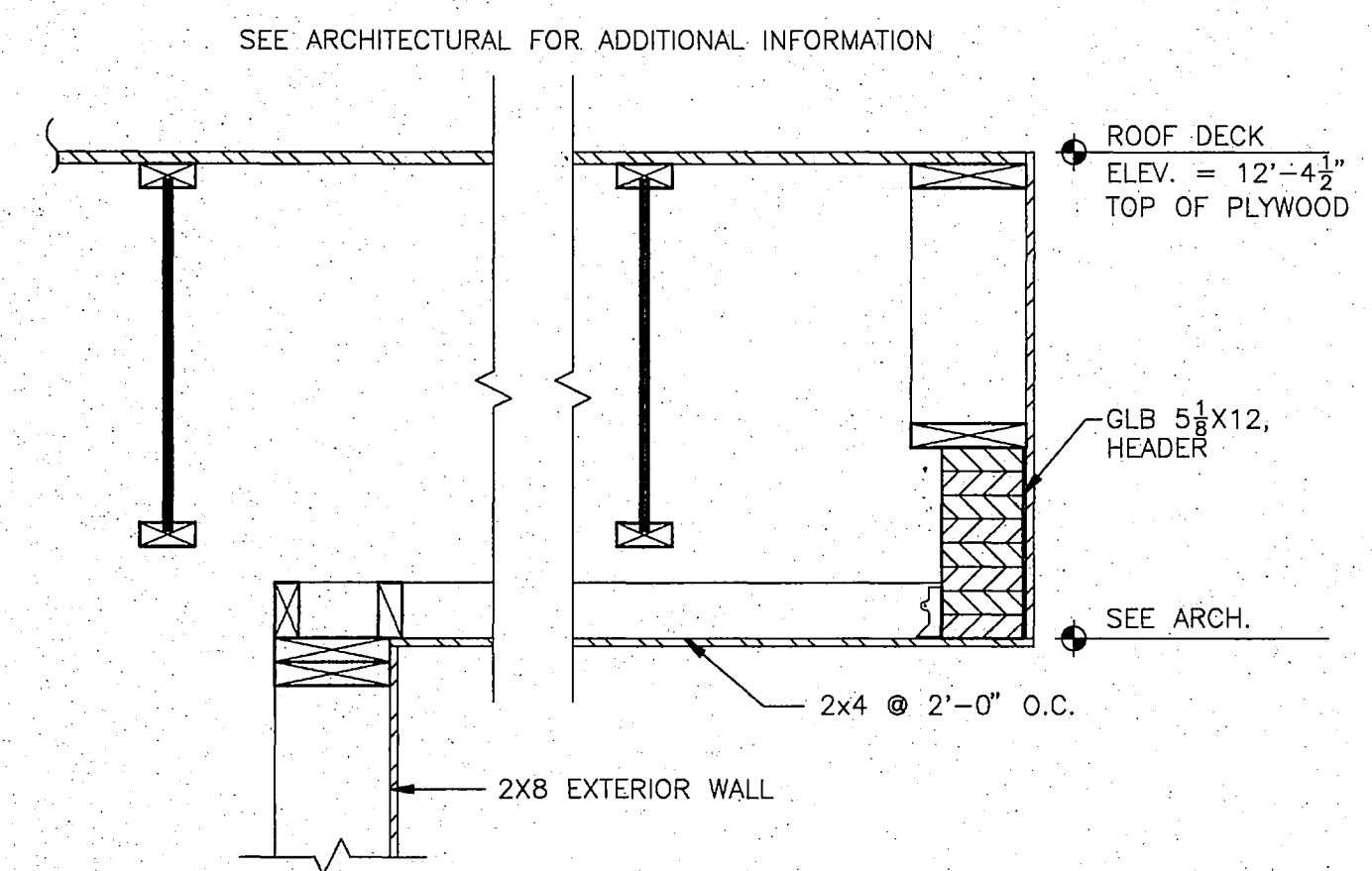
2 SECTION
S2.4 S5.3 1" = 1'-0" MECHRF2



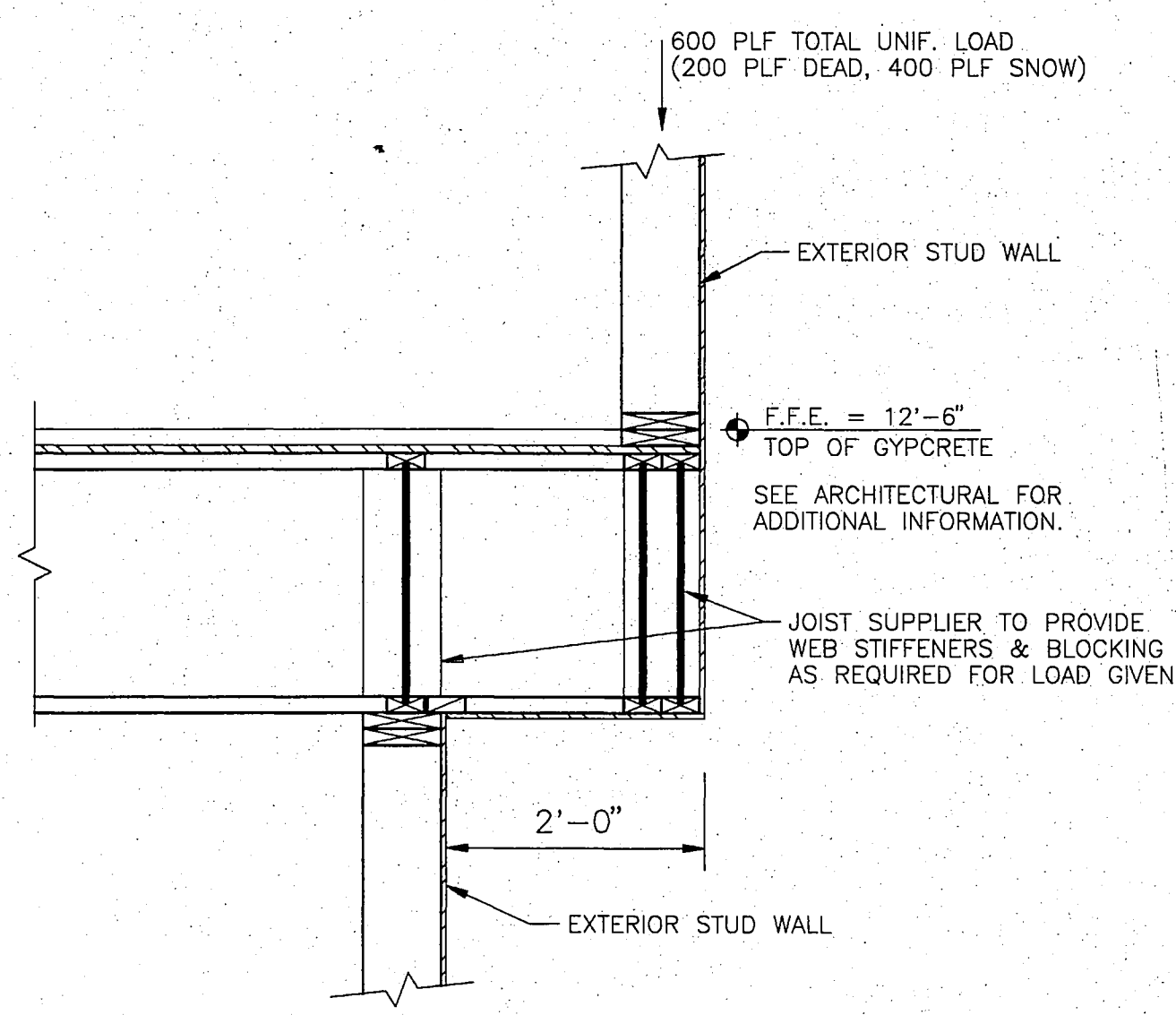
3 DETAIL @ CORNER
S2.2 S5.3 1" = 1'-0" CORNER



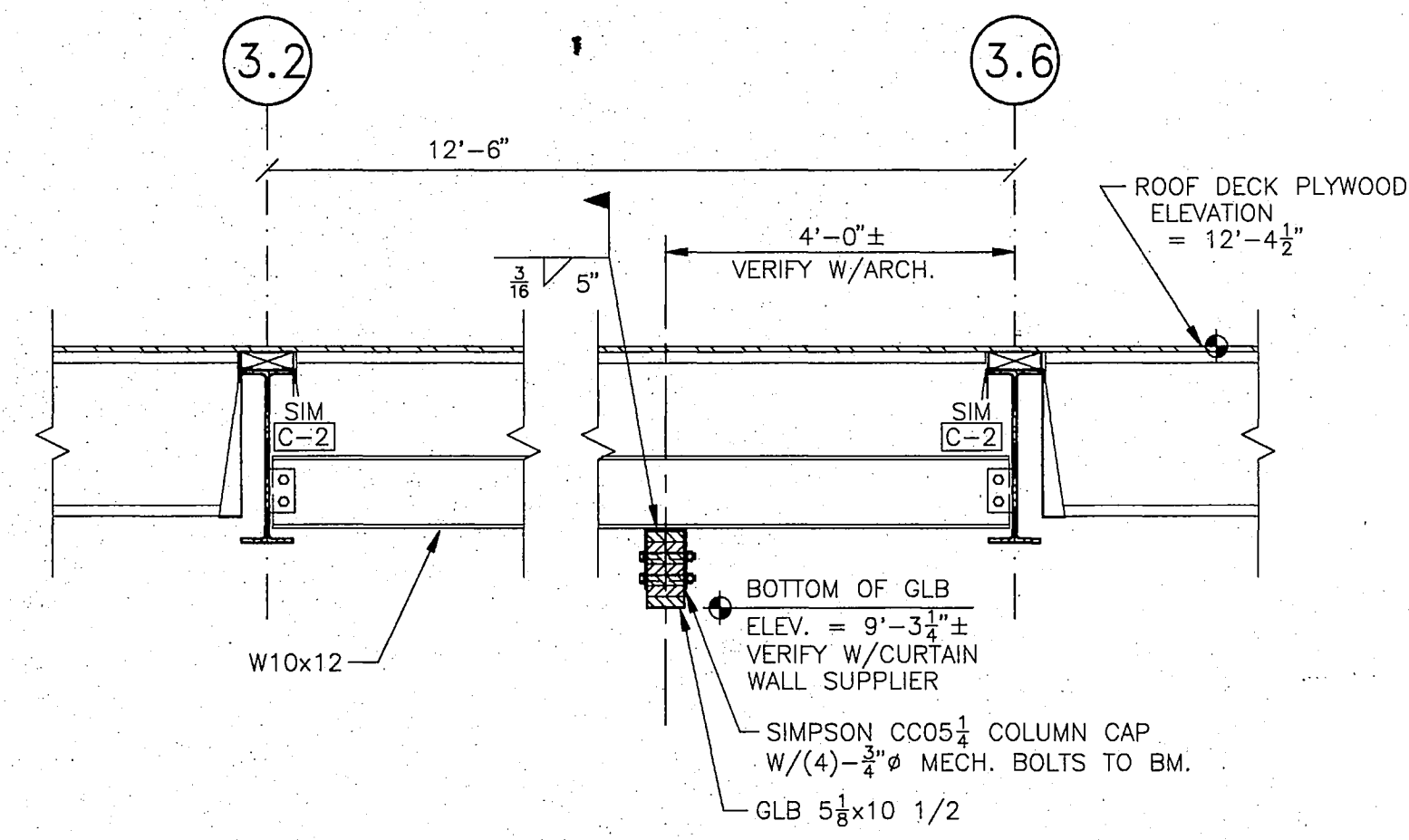
4 SECTION @ MECH. DUCTS
S2.3 S5.3 1" = 1'-0" DUCTSEC



5 SECTION @ CORRIDOR
S2.3 S5.3 1" = 1'-0" CORRSEC

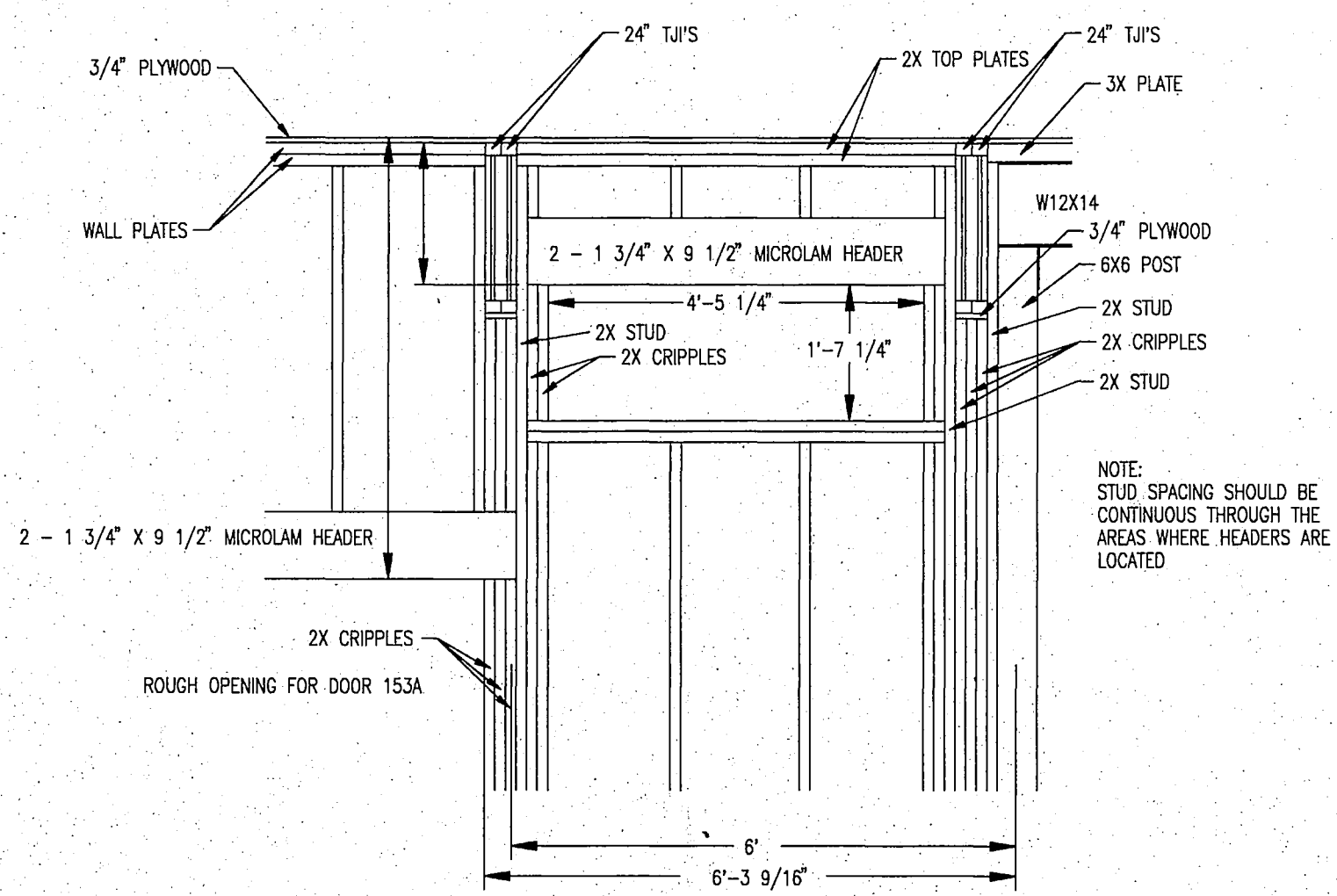


6 SECTION @ OVERHANG
S2.3 S5.3 3/4" = 1'-0" JUSTCANT



NOTE: STEEL BEAMS W24x55 AT GRIDS 3.2 AND 3.6 BETWEEN GRIDS A AND A.g ARE 5/8" GYPSUM BOARD APPLIED TO THE UNDERSIDE AND SIDE OF THE BEAMS TO MAINTAIN CONTINUITY IN THE RETURN AIR PLENUM SYSTEM. PROVIDE BLOCKING AS REQUIRED.

7 SECTION @ CURTAIN WALL
S2.3 S5.3 1/2" = 1'-0" CURTWALL1



NOTE: STUD SPACING SHOULD BE CONTINUOUS THROUGH THE AREAS WHERE HEADERS ARE LOCATED

8 FRAMING DETAIL @ GRID LINES C.d & 3.7
S2.3 S5.3 1/4" = 1'-0" FHCFRM01

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

LIVINGSTON
STONE
Architecture Engineering
Interior Design Planning
3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2066

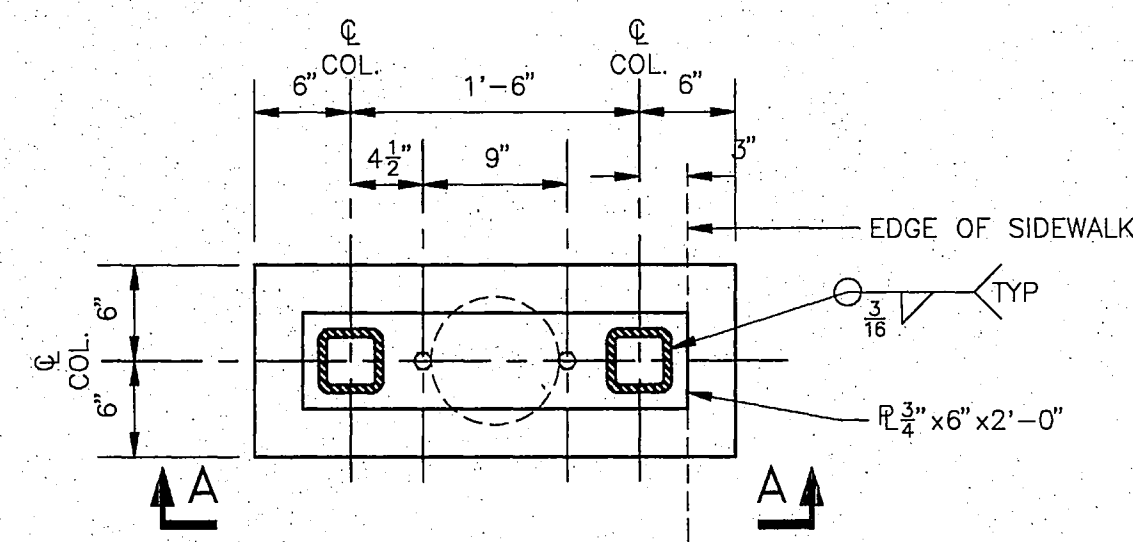
PROJECT NO. 91.194
DRAWN BY KEF
DESIGNED BY KEF
DATE 12/9/92
REVISED
TITLE
SECTIONS &
DETAILS
SHEET NO.

S 5.3

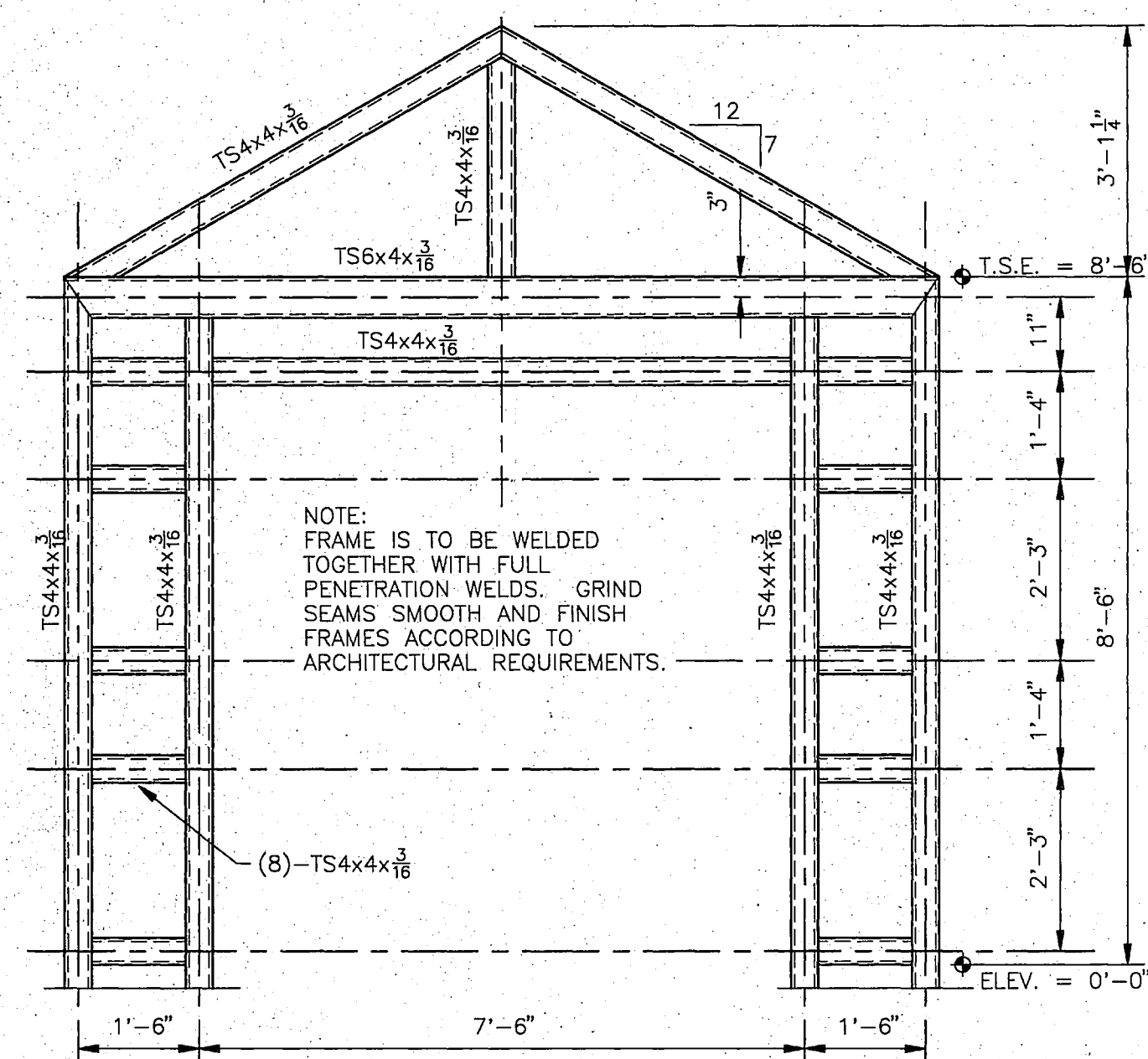
**RECORD
DRAWING**

Rufus D. Bunch
CITY ENGINEER, CITY OF FAIRBANKS
4-18-96
DATE

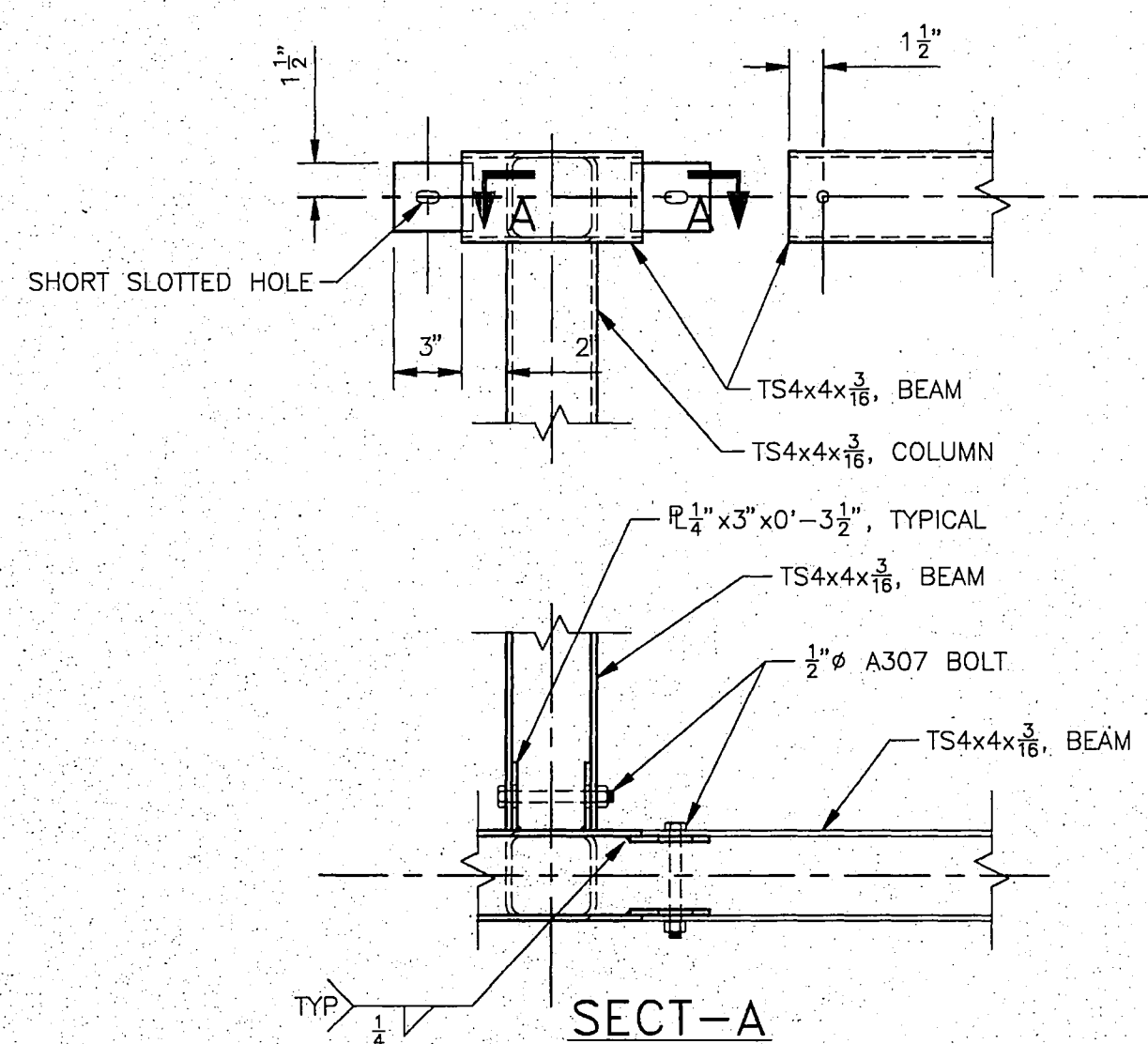
Loftus & Dailey, Inc.
structural engineering • engineering management
1028 AURORA DRIVE
FAIRBANKS, ALASKA 99709



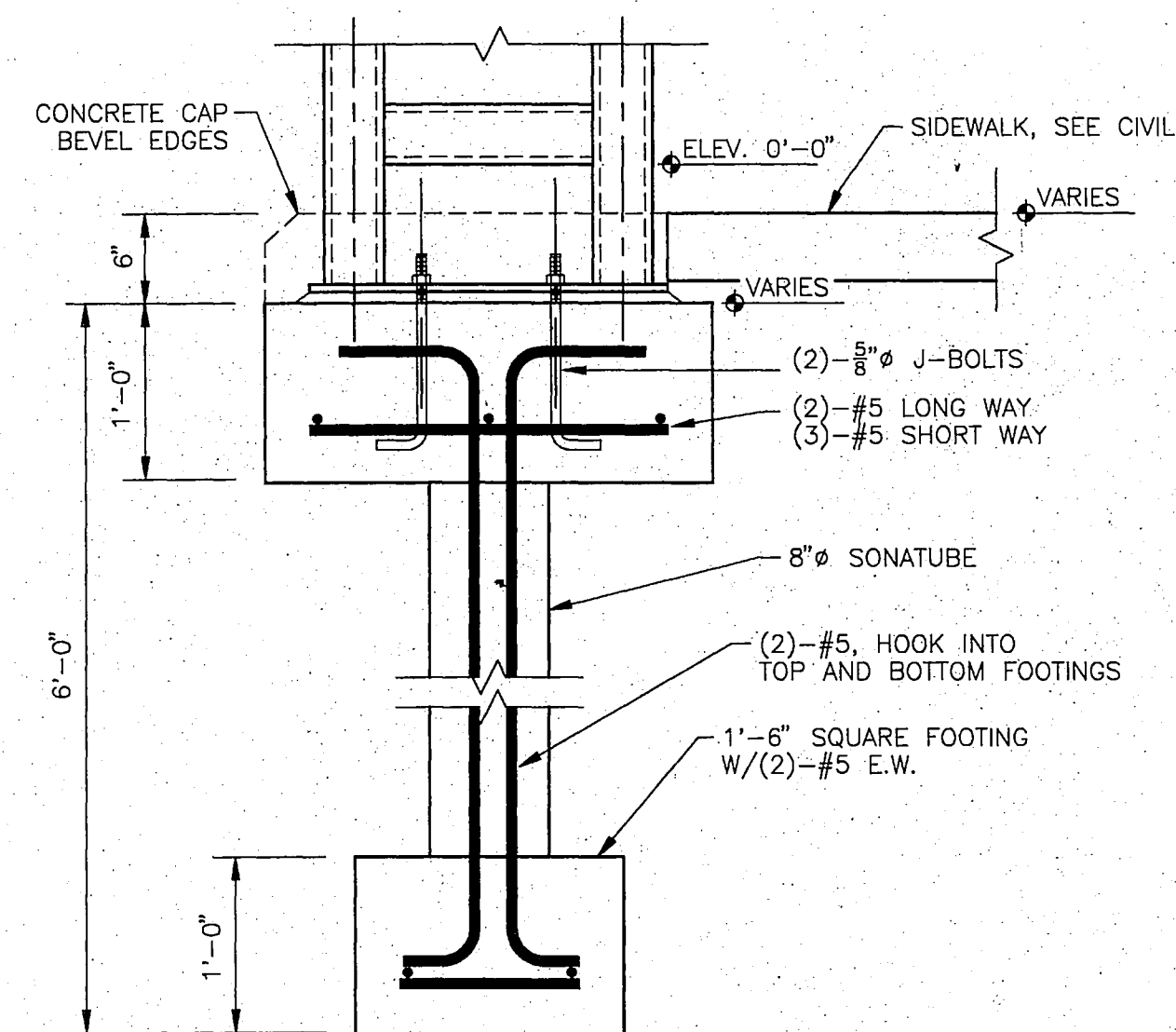
1 DETAIL
S2.1S5.4 1" = 1'-0"



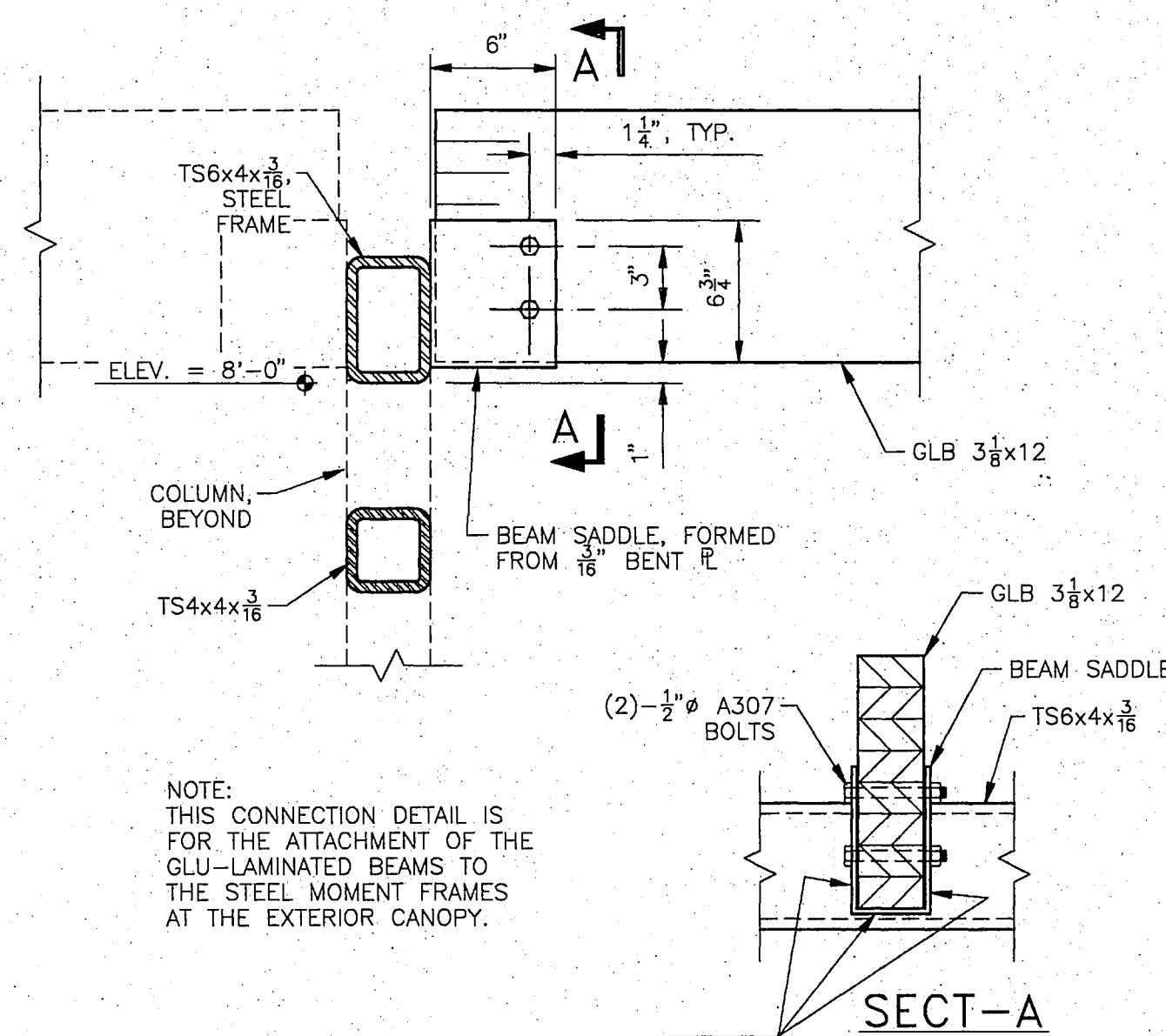
3 ELEVATION
S2.3S5.4 1/2" = 1'-0"



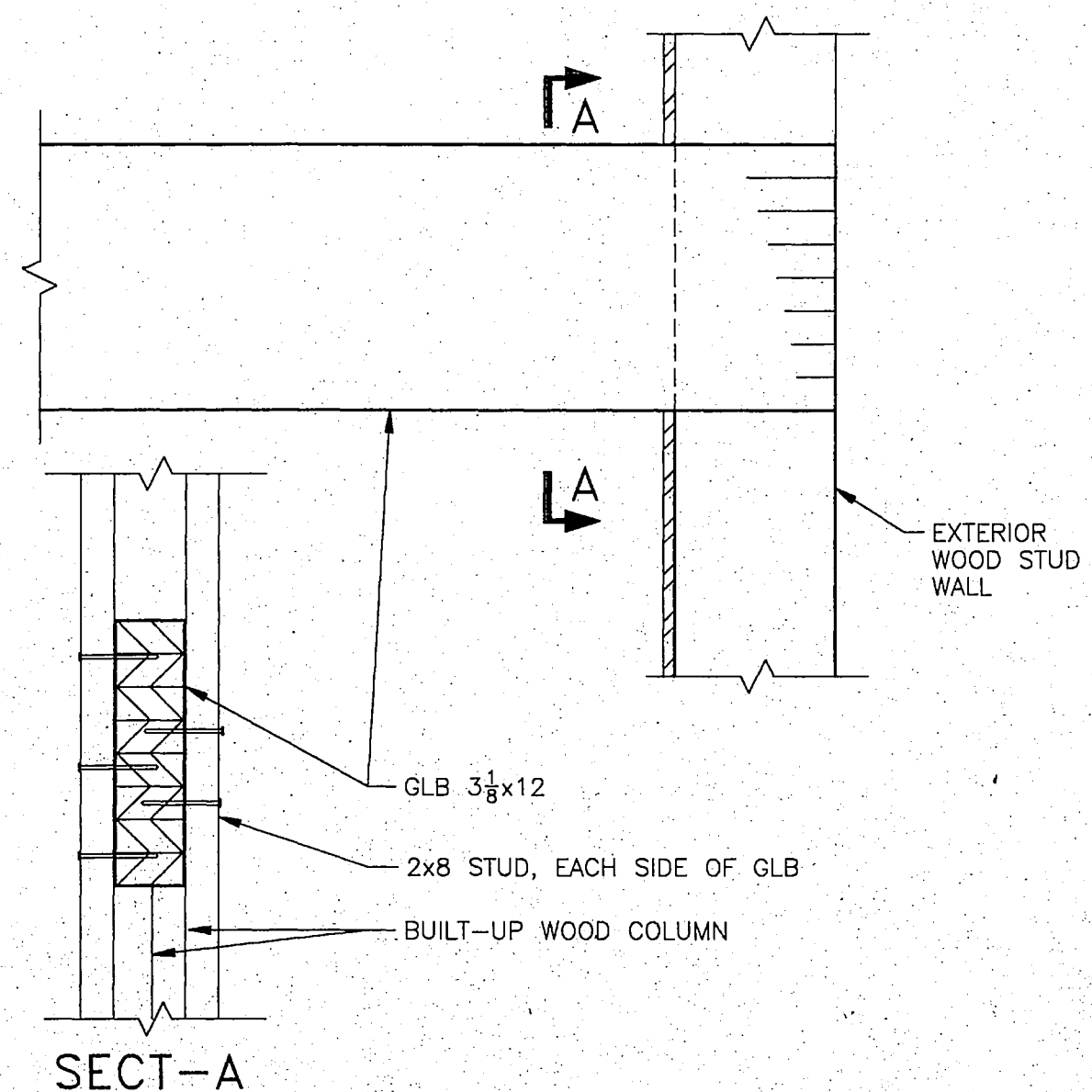
7 DETAIL
S2.3S5.4 1/2" = 1'-0"



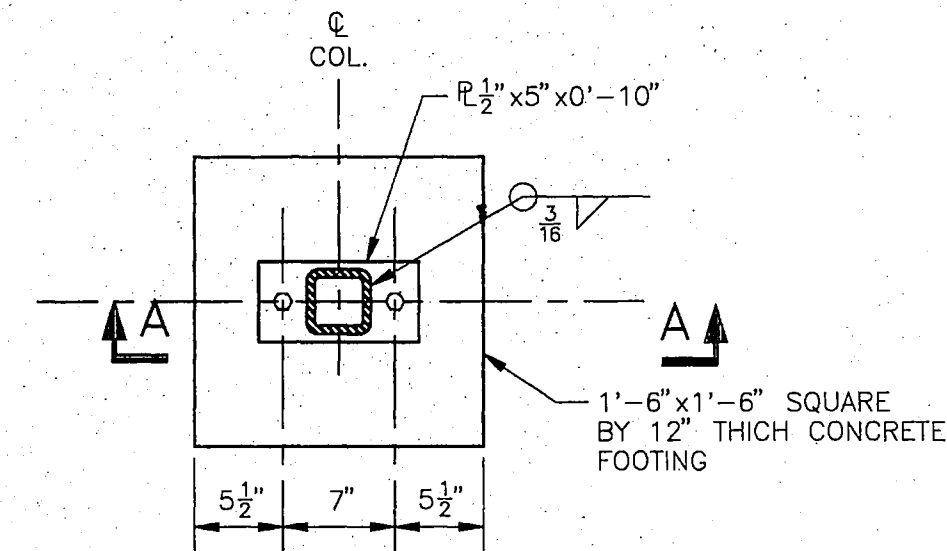
2 DETAIL
S2.1S5.4 1" = 1'-0"



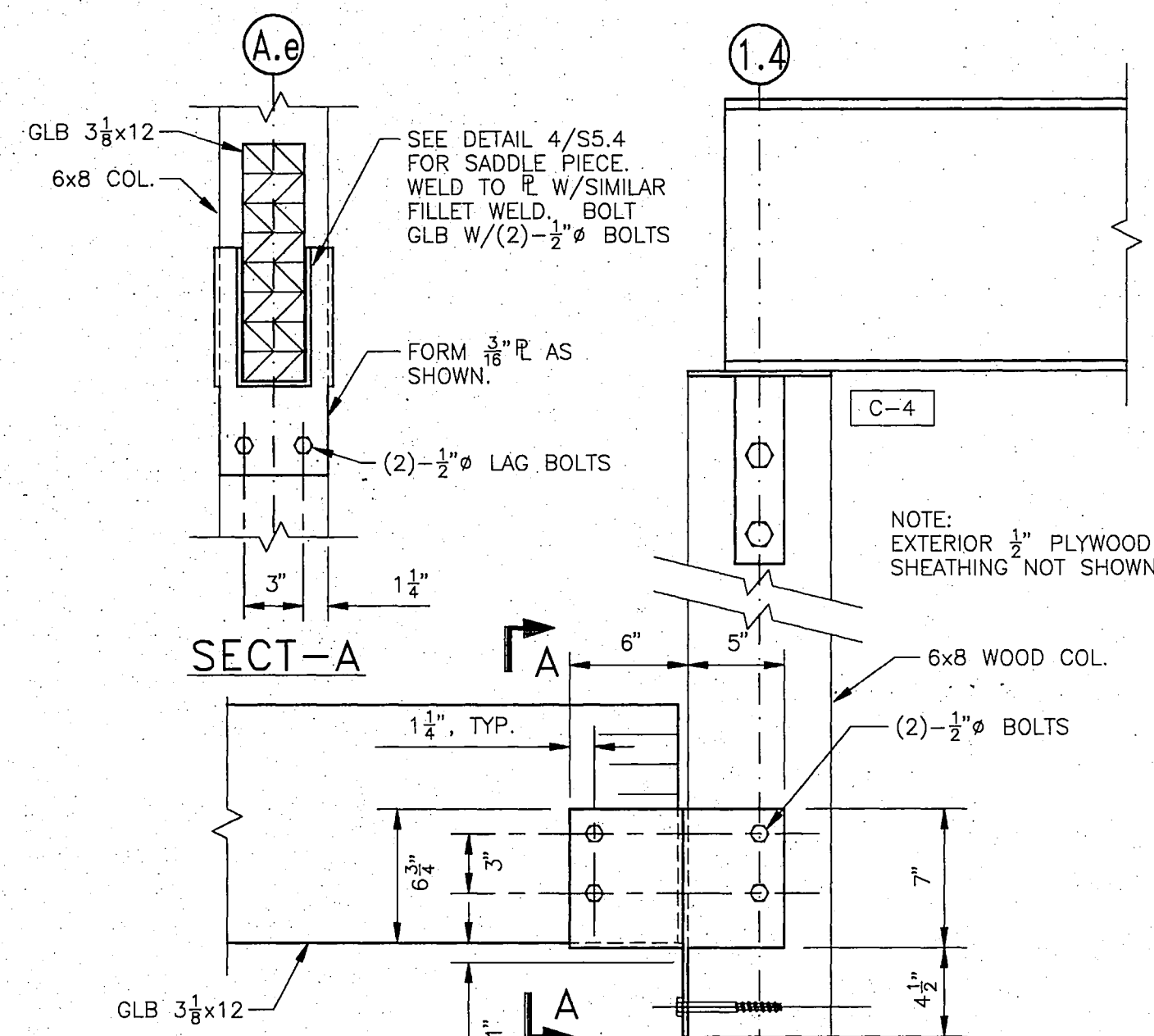
4 DETAIL
S2.3S5.4 1 1/2" = 1'-0"



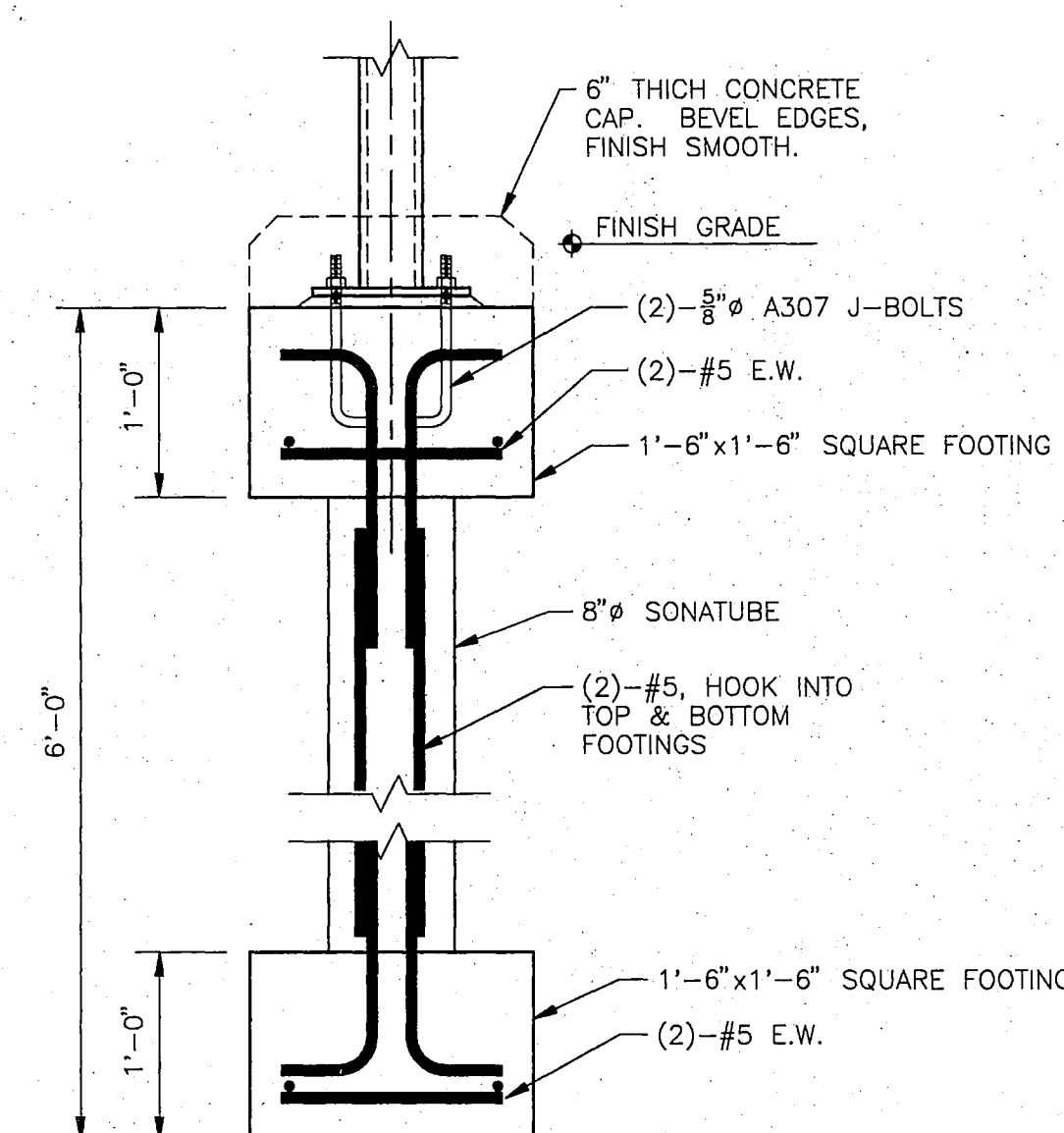
8 DETAIL
S2.3S5.4 1 1/2" = 1'-0"



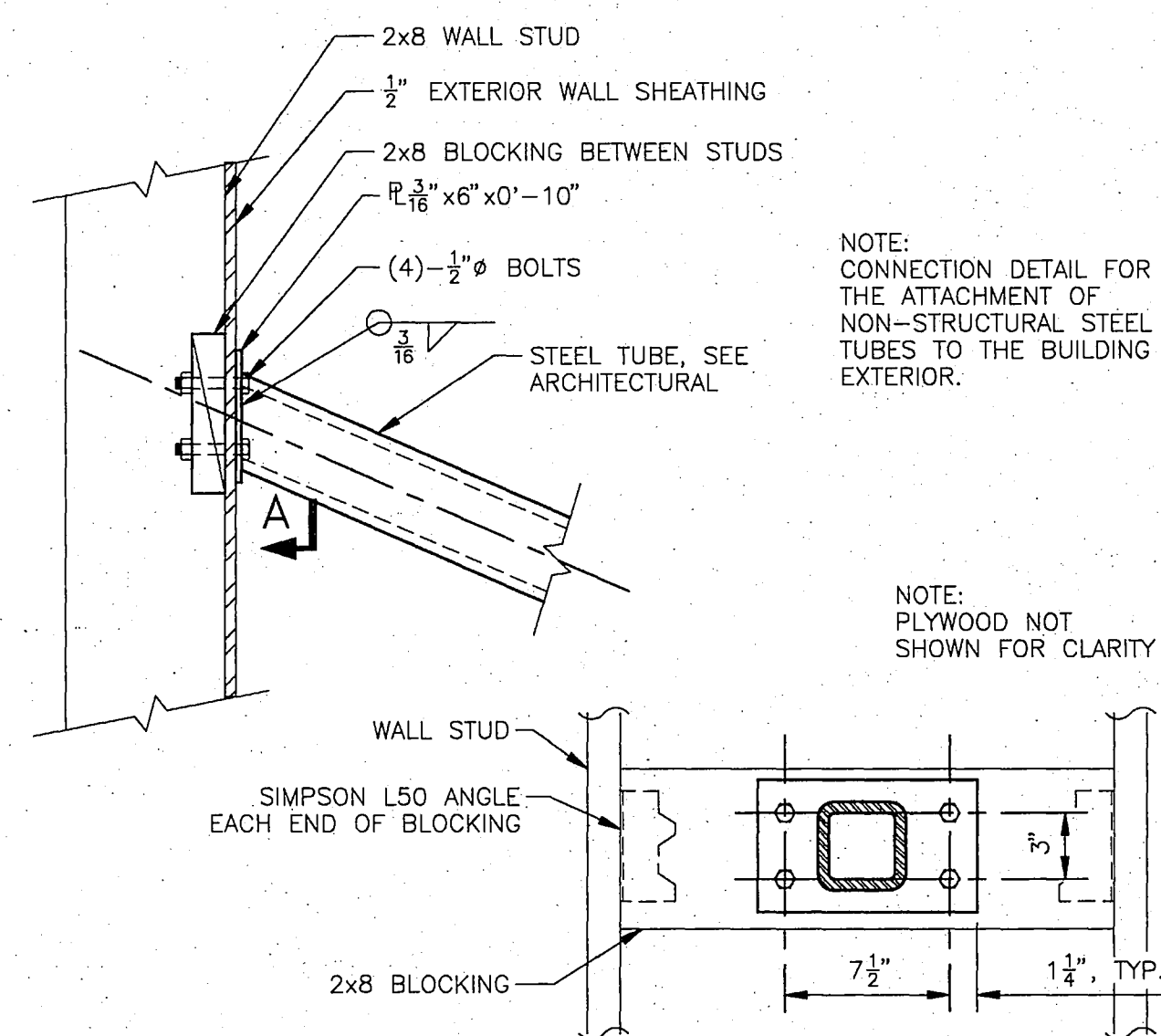
5 DETAIL
S2.3S5.4 1 1/2" = 1'-0"



6 DETAIL
S2.3S5.4 1 1/2" = 1'-0"



2 DETAIL
S2.1S5.4 1" = 1'-0"



6 DETAIL
S2.3S5.4 1 1/2" = 1'-0"

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

LIVINGSTON
STONE
Architecture Engineering Planning
3900 Arctic Blvd. Suite 307
Fairbanks, Alaska 99703-0790
(907) 556-2088

PROJECT NO. 91.194
DRAWN BY KEF
DESIGNED BY KEF
DATE 12/9/92
REVISED

TITLE
DETAILS

SHEET NO.

S 5.4

**RECORD
DRAWING**

Robert B. Daniel
CITY ENGINEER, CITY OF FAIRBANKS

DATE 4/8/96



Loftus & Dailey, Inc.
structural engineering • engineering management
1028 AURORA DRIVE
FAIRBANKS, ALASKA 99709

F30.031

DUCTWORK

DUCT (1ST FIGURE, SIDE SHOWN
2ND FIGURE, SIDE NOT SHOWN)

DUCT WITH SOUND LINING. LISTED
DIMENSIONS ARE INSIDE CLEAR.

DUCT WITH INSULATION

DUCT UNDERFLOOR

DIRECTION OF FLOW

INCLINE DROP IN RESPECT
TO AIR FLOW

INCLINE RISE IN RESPECT
TO AIR FLOW

SUPPLY DUCT SECTION

RETURN/EXHAUST DUCT SECTION

CFM
SIZE
DESIGNATION

WALL SUPPLY REGISTER OR
GRILLE.

WALL RETURN OR EXHAUST
REGISTER OR GRILLE.

CEILING SUPPLY DIFFUSER,

CEILING RETURN OR EXHAUST
REGISTER OR GRILLE

DAMPER (FOR SMALL SCALE
DRAWINGS)

DAMPER (FOR LARGE SCALE
DRAWINGS)

FLEXIBLE CONNECTIONS

DESIGNATION
(SEE FIRE DAMPER
SCHEDULE)

FIRE DAMPER

TURNING VANES

AIR EXTRACTOR

18 X 12

(UP) (DN)

(UP) (DN)

SC - 20 X 12 - 700

RB - 20 X 12 - 700

SA - 20 X 12 - 700

RD - 20 X 12 - 700

PLAN

ELEV.

PLAN

ELEV.

FD-A

HEATING AND VENTILATING

BASEBOARD RADIATION

UNIT HEATER, PLAN

CABINET UNIT HEATER, PLAN

AUTOMATIC AIR VENT WITH
ISOLATION VALVE

THERMOMETER

VACUUM RELIEF VALVE

THERMOSTAT

PRESSURE GAGE WITH
ISOLATION COCK

PRESSURE GAGE WITH LOOP
AND ISOLATION COCK

CONTROL SWITCH

HUMIDISTAT

ENCLOSURE

ELEMENT

HORIZONTAL

CEILING

WALL

DESIGNATES TYPE
(SEE T-STAT SCHEDULE)

GENERAL

DETAIL IDENTIFICATION

REFERENCE NUMBER OF
DRAWING FROM WHICH
DETAIL IS TAKEN

REFERENCE NUMBER OF DRAWING
ON WHICH DETAIL IS DRAWN

SECTION IDENTIFICATION

REFERENCE NUMBER OF
DRAWING FROM WHICH
SECTION IS TAKEN

REFERENCE NUMBER OF DRAWING
ON WHICH SECTION IS DRAWN

DETAIL SYMBOL

SECTION SYMBOL

ROOM NUMBER

REFERENCED SHEET NOTE

GENERAL SHEET NOTE

PLUMBING FIXTURE DESIGNATION
(SEE FIXTURE CONNECTION SCHEDULE)

EQUIPMENT DESIGNATION
(SEE EQUIPMENT SCHEDULE)

TERMINAL HEATING
UNIT DESIGNATION

117

4

3

P-4A

CP-1

BB-1

10

2.5

GPM

NOTE: SYMBOLS SHOWN IN HEAVY LINES INDICATE NEW.
SYMBOLS SHOWN IN LIGHT LINES INDICATE EXISTING.
IDENTICAL SYMBOLS SHOWN IN LIGHT DASHED LINES
INDICATE EXISTING TO BE REMOVED.

PLUMBING

SOIL, WASTE LEADER

COLD WATER

HOT WATER

VENT

VENT RISER

VENT THRU ROOF (VTR)

COMPRESSED AIR

W

CW

HW

V

VR

VTR

A

PIPE FITTINGS AND VALVES

ANCHOR, PIPE

GUIDE, PIPE

ELBOW, TURNED DOWN

ELBOW, TURNED UP

TEE, OUTLET DOWN

TEE, OUTLET UP

GATE VALVE

BALANCE VALVE

GLOBE VALVE

BALL VALVE

CHECK VALVE

FLOW CONTROL VALVE

MOTORIZED VALVE

MOTORIZED 3-WAY VALVE

RELIEF OR SAFETY VALVE

STRAINER WITH GATE VALVE
AND HOSE ADAPTOR ON BLOWDOWN

DRAIN WITH GATE VALVE
AND HOSE ADAPTOR

PRESSURE REDUCING VALVE

FLEXIBLE PIPE

UNION

WATER HAMMER ARRESTER (WHA)

HOSE BIBB

CLEANOUT

WALL CLEANOUT

FLOOR CLEANOUT

FLOOR DRAIN

METERING DEVICE

COMPRESSED AIR OUTLET

TRAP PRIMER VALVE

GLYCOL

GLYCOL-HEATING SUPPLY

GLYCOL-HEATING RETURN

AIR RELIEF LINE

GHS

GHR

RECORD
DRAWING

City Engineer, City of Fairbanks

DATE

EXHAUST FAN SCHEDULE								
DESIG.	SERVICE	CFM	S.P. IN W.C.	MOTOR WATTS	RPM*	ELECTRICAL	MANF.	MODEL
EF-1	TOILET EXHAUST RM's 103, 104	610	0.375	348	1610	120/1/60	GREENHECK	SP-158
EF-2	ELEVATOR EQUIPMENT	800	0.25	285	950	120/1/60	GREENHECK	SP-160
EF-3	TOILET RM 150 JANITOR RM 138	200	0.375	156	1680	120/1/60	GREENHECK	CSP-127
EF-4	TOILET RM 160	100	0.25	75	1690	120/1/60	GREENHECK	SP-117
EF-5	TOILET RM 162	100	0.25	75	1690	120/1/60	GREENHECK	SP-117
EF-6	EXAM ROOM 112	210	0.375	120	1000	120/1/60	GREENHECK	CSP-150
EF-7	EXAM ROOM 111	210	0.375	120	1000	120/1/60	GREENHECK	CSP-150
EF-8	GENERAL EXHAUST	360	0.375	224	1070	120/1/60	GREENHECK	CSP-152
EF-9	TOILET RM 222	100	0.25	75	1690	120/1/60	GREENHECK	SP-117
EF-10	TOILET RM 207 COPIER, JANITOR RM'S	350	0.25	224	1070	120/1/60	GREENHECK	SP-152
EF-11	JANITOR RM	1000	0.50	818	1690	208/3/60	GREENHECK	SP-165

* PROVIDE VARIABLE SPEED SWITH FOR DIRECT DRIVE MOTORS.

DESIG.	DESCRIPTION	TRAP	WASTE	VENT	CW	HW	REMARKS
P-1	WATERCLOSET	-	4"	2"	3/4"	-	WALL MOUNTED
P-1A	HANDICAPPED WATERCLOSET	-	4"	2"	3/4"	-	WALL MOUNTED
P-2	URINAL	2"	2"	2"	3/4"	-	FLUSH VALVE
P-3	COUNTER SINK	1 1/2"	2"	2"	1/2"	1/2"	ROUND C. SINK
P-4	COUNTER SINK	2"	2"	1 1/2"	1/2"	1/2"	RECT. SS. SINK
P-5	WALL MNT. SINK	1 1/2"	2"	2"	1/2"	1/2"	RECT. SS. SINK
P-6	HANDICAPPED SINK	1 1/2"	2"	2"	1/2"	1/2"	WALL MOUNTED
P-7	JANITOR SINK	2"	2"	2"	1/2"	1/2"	FLOOR MOUNTED
P-8	DRINKING FNT.	1 1/2"	2"	1 1/2"	1/2"	-	W/REMOTE CHILLER
P-9	SHOWER	2"	2"	1 1/2"	1/2"	1/2"	
P-10	DOUBLE SINK	2"	2"	2"	1/2"	1/2"	
P-11	DRINKING FNT.	1 1/2"	2"	1 1/2"	1/2"	-	W/REMOTE CHILLER
FD-1	FLOOR DRAIN	-	3"	-	-	-	W/TRAP PRIMER
FD-2	FLOOR DRAIN	-	4"	-	-	-	W/TRAP PRIMER
FD-3	FLOOR DRAIN	-	4"	-	-	-	W/TRAP PRIMER
RD-1	ROOF DRAIN	-	4"	-	-	-	
RD-2	ROOF DRAIN	-	4"	-	-	-	
RD-3	ROOF DRAIN	-	4"	-	-	-	W/TRAP PRIMER

THERMOSTAT SCHEDULE	
DESIGNATION	DESCRIPTION
T 1	SPACE TEMPERATURE SENSOR SHALL MODULATE HYDRONIC TERMINAL UNIT CONTROL VALVE. SUBJECT TO NIGHT SETBACK.
T 2	SPACE TEMPERATURE SENSOR SHALL CYCLE HYDRONIC TERMINAL UNIT FAN. SUBJECT TO NIGHT SETBACK.

FAIRBANKS HEALTH CENTER

Fairbanks, Alaska

**LIVINGSTON
SLONE** Architecture Engineering
Interior Design Planning

3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2058

M1.0

MECHANICAL EQUIPMENT LIST

DIFFUSER/GRILL SCHEDULE

DESIG.	MEAN AIR DELTA P	MAX NC	MATERIAL	FINISH	MOUNTING	OPPOSED BLADE DAMPER	DESCRIPTION	MANUF.
SA	0.1"	30	STEEL	PRIME COAT	LAY-IN CEILING	YES	SQUARE DIFFUSER 24x24	TITUS TMSA
SB	0.1"	30	STEEL	PRIME COAT	LAY-IN CEILING	YES	SQUARE DIFFUSER 24x24	TITUS TMSA
SC	0.1"	30	STEEL	PRIME COAT	LAY-IN CEILING	YES	DOUBLE DEFLECTION 3/4" SPACING 8x4	TITUS 300RL
EA	0.1"	30	STEEL	PRIME COAT	LAY-IN CEILING	YES	SQUARE EXHAUST REGISTER 12x12	TITUS 23RL
EB	0.1"	30	ALUMINUM	PRIME COAT	GYP BOARD CEILING	YES	SQUARE EXHAUST REGISTER 12x12	TITUS 3F
RA	0.1"	30	ALUMINUM	PRIME COAT	LAY-IN CEILING	NO	SQUARE RETURN REGISTER 12x12	TITUS 23RL
RB	0.1"	30	STEEL	PRIME COAT	LAY-IN CEILING	NO	SQUARE RETURN REGISTER 12x12	TITUS 23RL
RC	0.1"	30	ALUMINUM	PRIME COAT	LAY-IN CEILING	NO	EGGCRATE GRILL 12x12	TITUS 50 F
RD	0.1"	30	STEEL	PRIME COAT	GYP BOARD CEILING	NO	EGGCRATE GRILL 12x12	TITUS 50 F

RECORD DRAWING

Refers to Record
CITY ENGINEER, CITY OF FAIRBANKS
DATE: 4/18/96

CUH-1

CABINET UNIT HEATER WITH INTEGRAL INLET AND OUTLET GRILLES.
CONFIGURATION: HORIZONTAL RECESSED CABINET

FAN: 300 CFM.
MOTOR: 1/30 HP/115V/1PH/1100 RPM.
HEATING COIL:
EGT: 200 F
CAPACITY AND FLOW RATE AS INDICATED ON DRAWINGS.

PROVIDE: THERMAL/ACOUSTICAL LINING, FILTERS, VIBRATION ISOLATION.

MANUFACTURER: TRANE MODEL # E 46-A0-03

CUH-2

CABINET UNIT HEATER WITH INTEGRAL INLET AND OUTLET GRILLES.
CONFIGURATION: INVERTED RECESSED CABINET

FAN: 480 CFM.
MOTOR: 1/8 HP/115V/1PH/1100 RPM.
HEATING COIL:
EGT: 200 F
CAPACITY AND FLOW RATE AS INDICATED ON DRAWINGS.

PROVIDE: THERMAL/ACOUSTICAL LINING, FILTERS, VIBRATION ISOLATION.

MANUFACTURER: TRANE MODEL # N 46-A0-04

AHU-1

AIR HANDLING UNIT: HORIZONTAL DRAW-THRU CONFIGURATION.
17,000 CFM @ 3.2" TSP.
MOTOR: 20 HP, 208V/3PH/60HZ, 1800 RPM.
FAN TYPE: AF
DISCHARGE SOUND POWER LEVEL, 3rd OCTAVE: 88 db

DX COOLING COIL:
MAX. AIR P: 0.5"
EAT: DB 79F, 62 WB
LAT: 53.8F DB. 52.0 WB
SUCTION TEMP: 42F
NUMBER OF ROWS: 4

HEATING COIL:
MAX. AIR P: 0.25"
EAT: 50 F
LAT: 75 F
MAX. WATER P: 3 FT
EGT: 200 F
GPM: 34
MBH: 462.4

STEAM HUMIDIFICATION GRID:
SUPPLY PRESSURE: 15 PSIG
CAPACITY: 120 LB/HR
ABSORPTION DIST: 2 FT MAX.

PROVIDE: FILTER/MIXING BOX, MOTOR/BELT GUARD, VIBRATION ISOLATION, DUCT FLEX CONNECTIONS, HIGH EFFICIENCY MOTOR.

MANUFACTURER: TRANE #35 OR EQUAL

CC-1

COMPRESSOR/CONDENSER UNIT
CONNECTED MOTOR LOAD: 50 KW, 208V/3PH/60HZ
40 TON CAPACITY @ 85 F OAT
CAPACITY STEPS: 100-75-50-25
M.C.A. 190 AMP EA.

COMPRESSOR MOTOR:
RLA: 414 AMP EA. (4)
LRA: 247 AMP EA. (4)

MANUFACTURER: TRANE OR EQUAL

CAF-1

COMBUSTION AIR FAN. CABINET FAN.
3600 CFM @ 0.75 TSP.
MOTOR: 1 HP/208V/3PH/1750 RPM.
HEATING COIL:
EAT: 180 F
LAT: 50 F
GPM: 6.7 (50/50 ETHYLENE GLYCOL)

PROVIDE: MIXING BOX SECTION, FLAT FILTERSECTION.
MANUFACTURER: PACE A14 DWDI FC OR EQUAL.

CP-1
CP-2

IN-LINE HYDRONIC CIRCULATION PUMP.
95 GPM @ 30' TDH.
MOTOR: 1 1/2 HP/208V/3PH/1750 RPM.

MANUFACTURER: BELL & GOSSETT, SERIES 80
MODEL: 2-1/2 X 2-1/2 X 7

CP-3
CP-4

IN-LINE HYDRONIC CIRCULATION PUMP.
34 GPM @ 20' TDH.
MOTOR: 1/3 HP/208V/1PH/1750 RPM.

MANUFACTURER: BELL & GOSSETT SERIES 60
MODEL: 1-1/2" AA

CP-5

WATER SERVICE CIRCULATING PUMP.
MAXIMUM FLOW AT 0' HEAD, 45 GPM.
MAXIMUM HEAD AT 25', 0 GPM.
MOTOR: 1/6 HP/120/1/60 . GRUNDFOS UPS-26-64 OR EQUAL.

HWG-1

HOT WATER GENERATOR
CAPACITY 242.0 MBH
MODEL NO. 73A
MANUFACTURER: BOCK
FORCED DRAFT, OIL FIRED 1.75 GPH POWER BURNER

HWCP-1

DOMESTIC HOT WATER CIRCULATING PUMP.
6 GPM @ 20' TDH.
MOTOR: 1/4 HP, 120V/1PH/60Hz, 1750 RPM

MANUFACTURER: BELL & GOSSETT, SERIES 60, 1AA

SB-1

CAPACITY: 200 LB/HR @ 15 PSIG, NET IBR OUTPUT.

PROVIDE: LO-HI-LO BURNER, PACKAGED SOFTENER WATER TREATMENT SYSTEM, AUTOMATIC BLOWDOWN AND BLOWDOWN SEPARATOR/COOLER, CONCRETE HOUSE KEEPING PAD.
STEAM BOILER: FLEXIBLE STEEL WATER TUBE, OIL FIRED
MANUFACTURER: BRYAN, F/D 250S OR EQUAL

RAD-1

MODULAR RADIANT CEILING PANEL:
CAPACITY: 1830 BTUH/LF
ENTERING WATER TEMPERATURE: 210F
PANEL TYPE: FLAT/W CUSTOM FINISH
PANEL SIZE: 4' X 2'
PROVIDE: ALL NECESSARY HANGERS, TRIM PIECES.
MANUFACTURER: AIRTEX OR EQUAL

RAD-2

LINEAR RADIANT CEILING PANEL:
CAPACITY: 725 BTUH/LF
ENTERING WATER TEMPERATURE: 210F
PANEL TYPE: FLAT/W CUSTOM FINISH
PANEL WIDTH: 30"
PROVIDE: ALL NECESSARY HANGERS, TRIM PIECES.
MANUFACTURER: AIRTEX OR EQUAL
PANEL TYPE: FLAT

RAD-3

LINEAR RADIANT CEILING PANEL:
CAPACITY: 967 BTUH/LF
ENTERING WATER TEMPERATURE: 210F
PANEL TYPE: FLAT/W CUSTOM FINISH
PANEL WIDTH: 40"
PROVIDE: ALL NECESSARY HANGERS, TRIM PIECES.
MANUFACTURER: AIRTEX OR EQUAL
PANEL TYPE: FLAT

RAF-1

RETURN AIR FAN: TUBE AXIAL FAN
FAN: 15,000 CFM @ 0.5 IN SP.
MOTOR: 3 HP/208V/3PH/1200 RPM.

PROVIDE: VIBRATION ISOLATION, RELIEF DAMPERS
FAN BELT GUARD.

MANUFACTURER: GREENHECK MODEL #TAB36 OR EQUAL

FTP-1

FUEL OIL (DUPLEX) TRANSFER PUMP SET
CAPACITY: 60 GPH
MOTOR: 1/2 HP EACH 208/3/60

MODEL NO. ID2D-60-2R626D
MANUFACTURER: PEABODY GORDON PIATT

B-1
B-2

HYDRONIC BOILER: CAST IRON SECTIONAL, OIL FIRED

CAPACITY: 1,358 MBTU, NET IBR OUTPUT.

PROVIDE: MODULATING BURNER, CONCRETE HOUSEKEEPING PAD.

MANUFACTURER: WEIL MCLEAN #688 OR EQUAL

GP-1

GLYCOL MAKEUP PUMP

CAPACITY: 4 GPM @ 25 PSI
MODEL NO. SG-0514
MANUFACTURER: VIKING SPUR GEAR PUMPS
1/2 HP MOTOR, 208/3/60

UH-1

UNIT HEATER: VERTICAL PROPELLER UNIT HEATER.
FAN: 815 CFM.
MOTOR: 1/20 HP/120V/1PH/1550 RPM.
HEATING COIL:
EGT: 200 F
CAPACITY AND FLOW RATE AS INDICATED ON DRAWINGS.
PROVIDE: VIBRATION ISOLATION, DISCHARGE LOUVER VANES, FAN GUARD.

MANUFACTURER: TRANE MODEL #60-S

UH-2

UNIT HEATER: HORIZONTAL PROPELLER UNIT HEATER.
FAN: 591 CFM.
MOTOR: 1/20 HP/120V/1PH/1550 RPM.
HEATING COIL:
EGT: 200 F
CAPACITY AND FLOW RATE AS INDICATED ON DRAWINGS.
PROVIDE: VIBRATION ISOLATION, DISCHARGE LOUVER VANES, FAN GUARD.

MANUFACTURER: TRANE MODEL #42-S

UH-3

UNIT HEATER: HORIZONTAL PROPELLER UNIT HEATER.
FAN: 1214 CFM.
MOTOR: 1/8 HP/120V/1PH/1550 RPM.
HEATING COIL:
EGT: 200 F
CAPACITY AND FLOW RATE AS INDICATED ON DRAWINGS.
PROVIDE: VIBRATION ISOLATION, DISCHARGE LOUVER VANES, FAN GUARD.

MANUFACTURER: TRANE MODEL #90-S OR EQUAL

BB-1

HYDRONIC BASEBOARD:
TUBE SIZE: 3/4" NO. OF ROWS: 1
FIN SIZE: 4 1/4" X 4 1/4"
OUTPUT CAPACITY AT 200 DEG F. AVERAGE GLYCOL TEMPERATURE
EAT: 65 DEG F. BTU: 960 BTU/FT

ENCLOSURE HEIGHT: 18"

PROVIDE: ALL NECESSARY HANGERS, CUSTOM FACE ENCLOSURE TRIM PIECES AND ACCESS PANELS.

MANUFACTURER: VULCAN LINOVECTOR BARE ELEMENT

BB-2

HYDRONIC BASEBOARD:
TUBE SIZE: 3/4" NO. OF ROWS: 3
FIN SIZE: 4 1/4" X 4 1/4"
OUTPUT CAPACITY AT 200 DEG F. AVERAGE GLYCOL TEMPERATURE
EAT: 65 DEG F. BTU: 1400 BTU/FT
ENCLOSURE TYPE: SLOPED FRONT TOP GRILLE
ENCLOSURE HEIGHT: 24"
ENCLOSURE MOUNTING HEIGHT: 28"

PROVIDE: ALL NECESSARY HANGERS, TRIM PIECES AND ACCESS PANELS.

MANUFACTURER: VULCAN LINOVECTOR STYLE DS

H-1

STEAM GRID HUMIDIFIER: PNEUMATIC OPERATOR
SERIES 1000 STAINLESS STEEL
CAPACITY: 138 LBS/HR

MODEL NO. AM-92A 3/8" ORIFICE
1" DRAIN CONNECTION W/DRAIN TRAP NO. 800 (ARMSTRONG)
3/4" STEAM INLET & STRAINER

MANUFACTURER: ARMSTRONG

WS-1

WATER CONDITIONER
MODEL ECONO-LINE ECB-30 FULLY AUTOMATIC
MANUFACTURER: CLEAVER BROOKS

POLYETHYLENE BRINE TANK AND FIBERGLASS MINERAL TANK

FHC_M1_1

City of Fairbanks

FAIRBANKS HEALTH CENTER

Fairbanks, Alaska

LIVINGSTON
STONE
Architecture Engineering
Interior Design Planning

3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2556

PROJECT NO. 116.00
DRAWN BY PW
CHECKED BY DH
DATE DEC 9, 1992
REVISED

TITLE
MECHANICAL EQUIPMENT LIST
SHEET NO.

M1.1

- SHEET NOTES
1.

RUN GHS AND GHR IN PLENUM SPACE UNLESS OTHERWISE NOTED.
2.

ALL GHS & GHR BRANCH PIPING TO RADIANT PANELS TO BE 1/2" U.O.M.
3.

SEE B
M2.0M5.0 FOR PIPING DIAGRAM.
4.

SEE A
M2.0M5.0 FOR RAD-1, 2, 3 PIPING DIAGRAM.
5.

SEE C
M2.0M5.0 FOR BB-1, 2 PIPING ISOMETRIC.
6.

SEE D
M2.0M5.0 FOR UH-1, 2, 3 PIPING ISOMETRIC.
7.

SEE E
M2.0M5.0 FOR CUH-1 PIPING ISOMETRIC.
8.

SEE A
M2.0M5.1 FOR BB-3 PIPING ISOMETRIC.
9.

SINGLE THERMOSTAT OPERATES RADIANT PANELS IN TWO EXAM ROOMS.

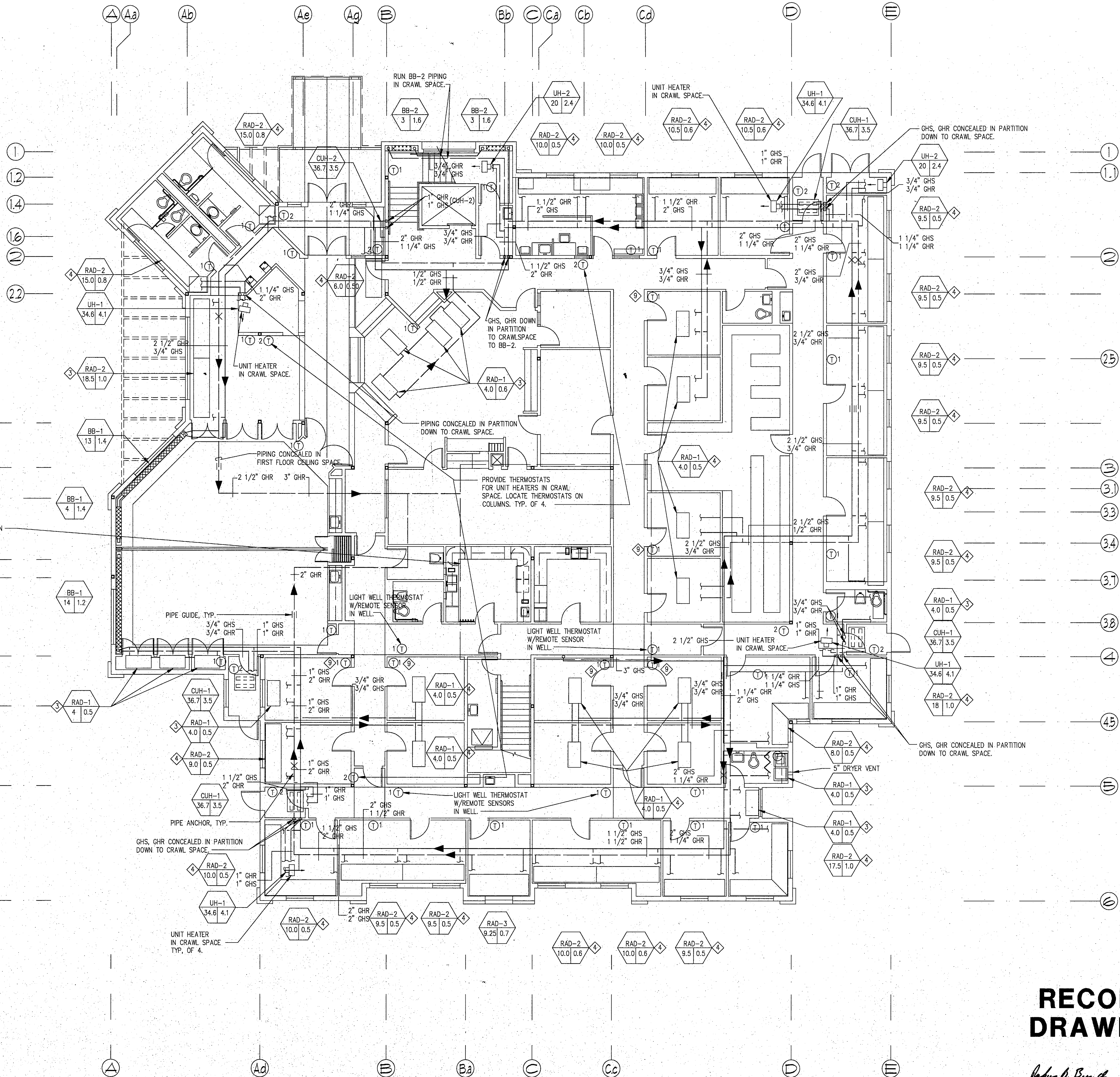
NOTE:
RADIANT PANEL PIPING (CLARIFICATION)

A. IN ROOMS WITH MULTIPLE LINEAR RADIANT PANELS (RAD-2), PIPE AS SHOWN IN A/M5.0.

B. FOR SINGLE MODULAR RADIANT PANELS (RAD-1) PIPE AS SHOWN IN B/M5.0.

C. IN ROOM 132, THE MULTIPLE MODULAR RADIANT PANELS (RAD-1) SHALL BE CONNECTED AS INDICATED ABOVE, IN SERIES AS SHOWN ON PLANS.

D. IN EXAM ROOMS: 147 & 148, 153 & 154, 158 & 159, 124 & 122, 123 & 120, RADIANT PANELS (RAD-1) ARE IN PAIRS TO BE CONNECTED USING A/M5.0, WITH A COMMON THERMOSTAT AS SHOWN ON THE PLANS.



FIRST FLOOR — HEATING PLAN
SCALE: 1' = 1/8"

RECORD
DRAWING

Robert D. Brown
CIVIL ENGINEER, CITY OF FAIRBANKS
DATE 4/8/96

FHC_M2_0

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

LIVINGSTON
STONE
Architectural Engineering
Interior Design Planning
3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2058

PROJECT NO. 116.00
DRAWN BY PW
CHECKED BY DH
DATE DEC 9, 1992
REVISED

TITLE
HEATING
FIRST FLOOR
PLAN
SHEET NO.

M2.0

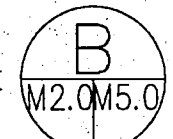
F3.0.028

SHEET NOTES

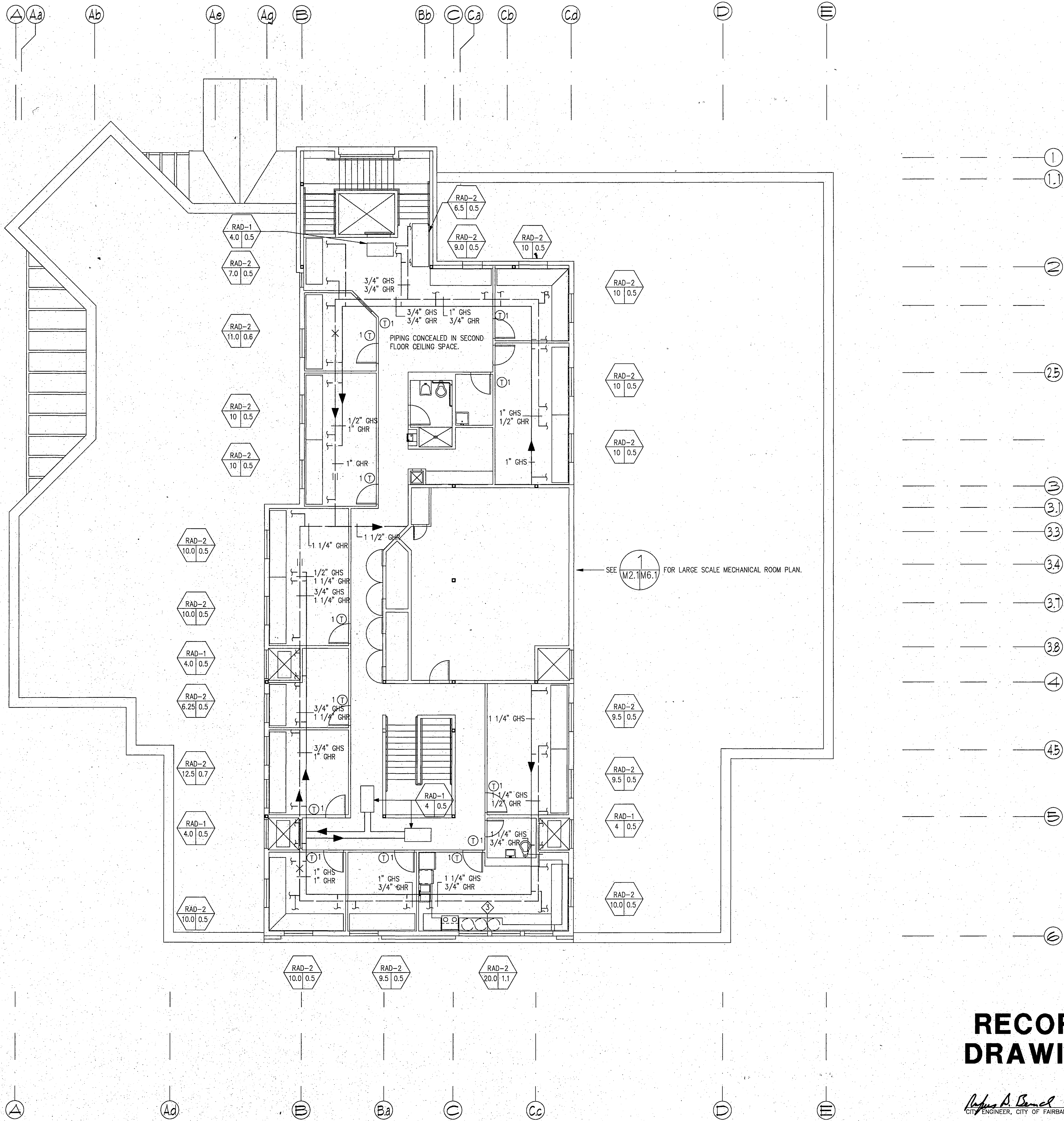
1. RUN GHS AND GHR IN CEILING SPACE UNLESS OTHERWISE NOTED.

2. ALL GHS & GHR BRANCH PIPING TO RADIANT PANELS TO BE 1/2" U.O.M.

3. SEE  FOR RAD-1, 2, 3 PIPING DIAGRAM.

4. SEE  FOR PIPING DIAGRAM.

5. RADIANT PANEL PIPING (CLARIFICATION)
A. FOR SINGLE MODULAR RADIANT PANELS (RAD-1) PIPE AS SHOWN IN B/W/5.0.
B. IN ROOM 132, THE MULTIPLE MODULAR RADIANT PANELS (RAD-2) SHALL BE CONNECTED AS INDICATED ABOVE, IN SERIES AS SHOWN ON PLANS.



SECOND FLOOR – HEATING PLAN
SCALE: 1/8"=1'

1
- M2.1

RECORD
DRAWING

James A. Bensch
CITY ENGINEER, CITY OF FAIRBANKS
DATE 4/8/96

PROJECT NO. 116.00
DRAWN BY PW
CHECKED BY DH
DATE DEC 9, 1992
REVISED

TITLE
HEATING
SECOND FLOOR
PLAN

SHEET NO.

M2.1

FHC_M2.1

F30.027

City of Fairbanks

FAIRBANKS HEALTH CENTER

Fairbanks, Alaska

LIVINGSTON

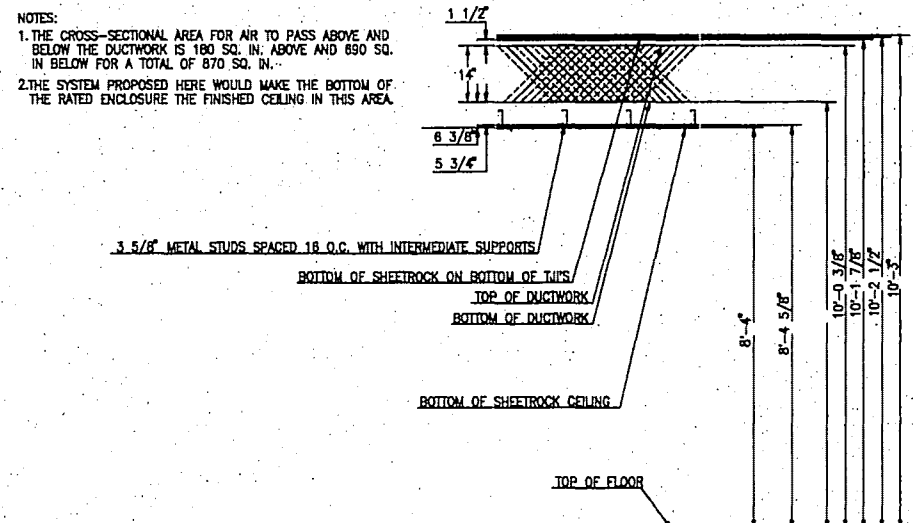
STONE

Architecture Engineering
Interior Design Planning

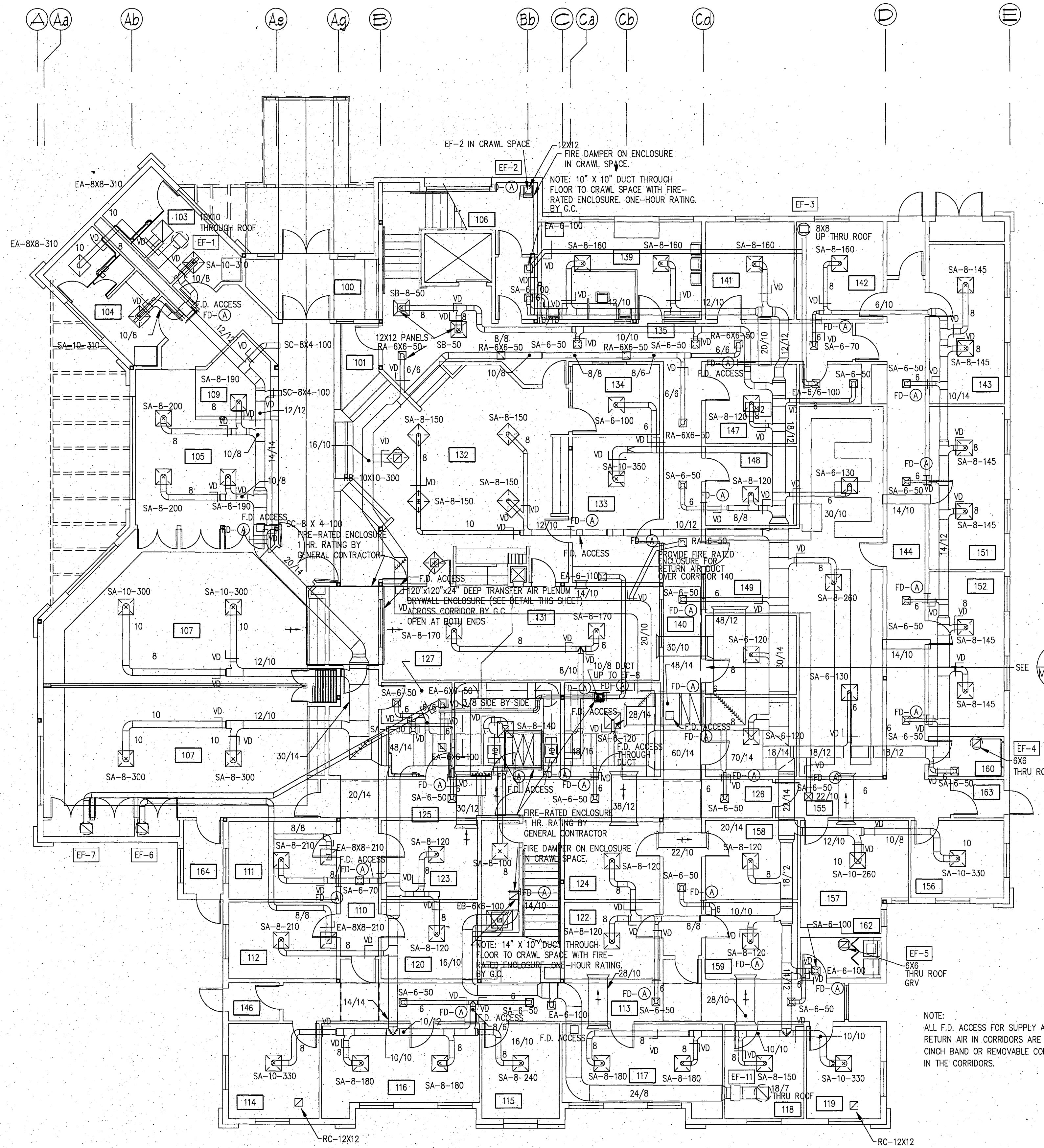
3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2068

SHEET NOTES

- HANG DUCTWORK TIGHT TO THE UNDERSIDE OF THE FLOOR DECK ASSEMBLY ABOVE.
- ALL EXHAUST FAN RELIEF VENTS SHALL HAVE BACKDRAFT DAMPERS.
- ALL ROOF MOUNTED RELIEF VENTS SHALL HAVE A MINIMUM OF 24 in. HIGH ROOF CURB.
- FURNISH AND INSTALL ACCESS DOORS TO ALL FIRE DAMPERS.



CEILING SPACES @ AIR PLENUM



FIRST FLOOR - AIR DISTRIBUTION PLAN

SCALE: 1"=1/8"

**RECORD
DRAWING**

Robert D. Brown
CITY ENGINEER, CITY OF FAIRBANKS
DATE: 4/8/98

TITLE
**VENTILATION
FIRST FLOOR
PLAN**
SHEET NO.

M3.0

F3.0.026

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

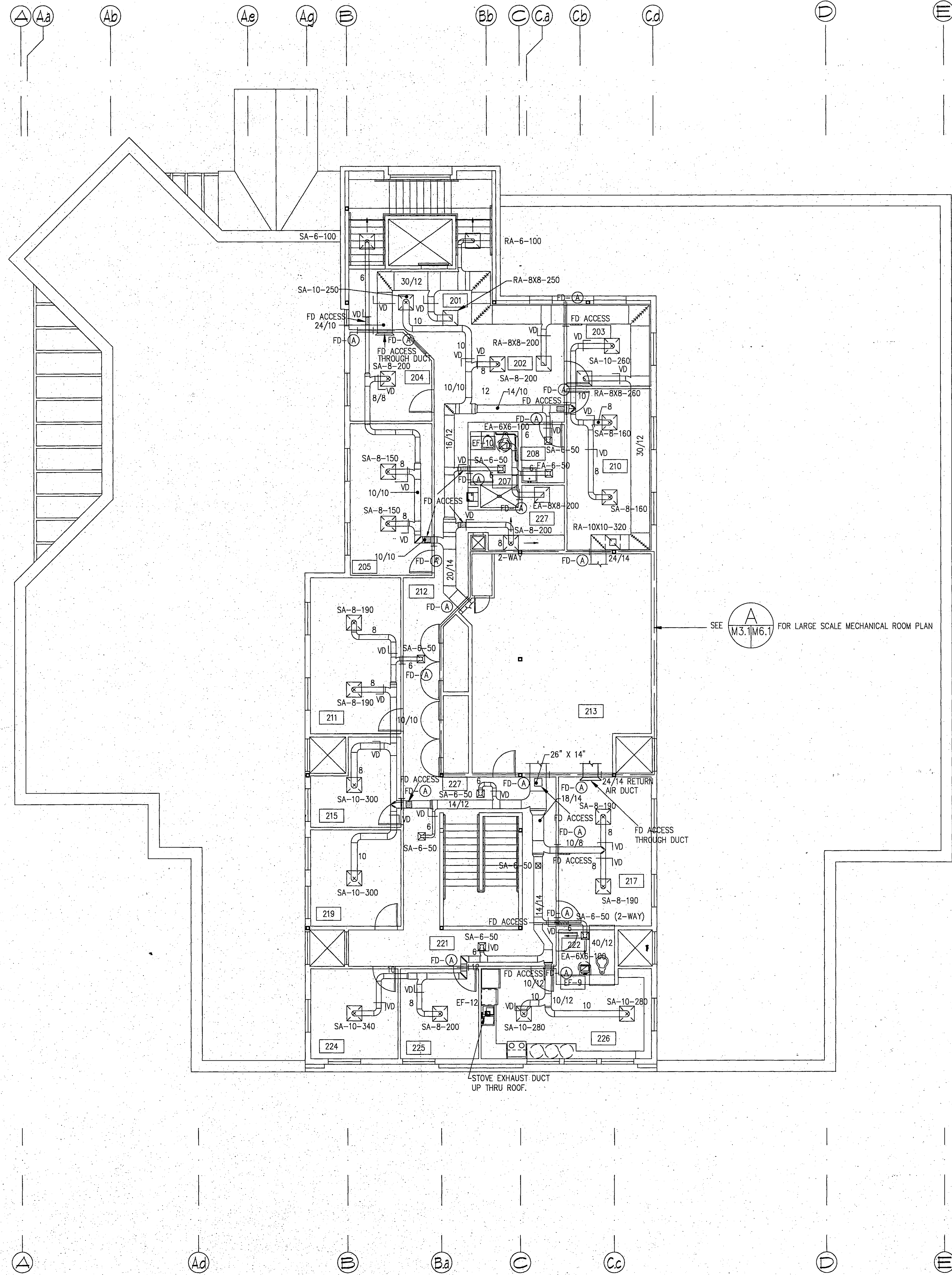
**LIVINGSTON
STONE**
Architectural Engineering
Interior Design Planning
3900 Arctic Blvd., Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2098

PROJECT NO. 116.00
DRAWN BY PW
CHECKED BY DH
DATE DEC. 9, 1992
REVISED

- SHEET NOTES
- HANG DUCTWORK TIGHT TO THE UNDERSIDE OF THE ROOF DECK ASSEMBLY ABOVE.
 - ALL EXHAUST FAN RELIEF VENTS SHALL HAVE BACKDRAFT DAMPERS.
 - ALL ROOF MOUNTED RELIEF VENTS SHALL HAVE A MINIMUM OF 24 in. HIGH ROOF CURB.
 - FURNISH AND INSTALL ACCESS DOORS FOR ALL FIRE DAMPERS. HIGH ROOF CURB.

1
1.2
1.4
1.6
2
2.2

2.8
3
3.2
3.5
3.6
4
4.4
E
E



SECOND FLOOR - VENTILATION PLAN
SCALE: 1" = 1/8"

1
M3.1

RECORD
DRAWING

Stephen D. Smith
CITY ENGINEER, CITY OF FAIRBANKS
DATE 4/18/96

FHC_M3.1

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

LIVINGSTON
STONE
Architecture Engineering
Interior Design Planning
3000 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2055

PROJECT NO. 116.00
DRAWN BY PW
CHECKED BY DH
DATE DEC 9, 1992
REVISED

TITLE
VENTILATION
SECOND FLOOR
PLAN
SHEET NO.

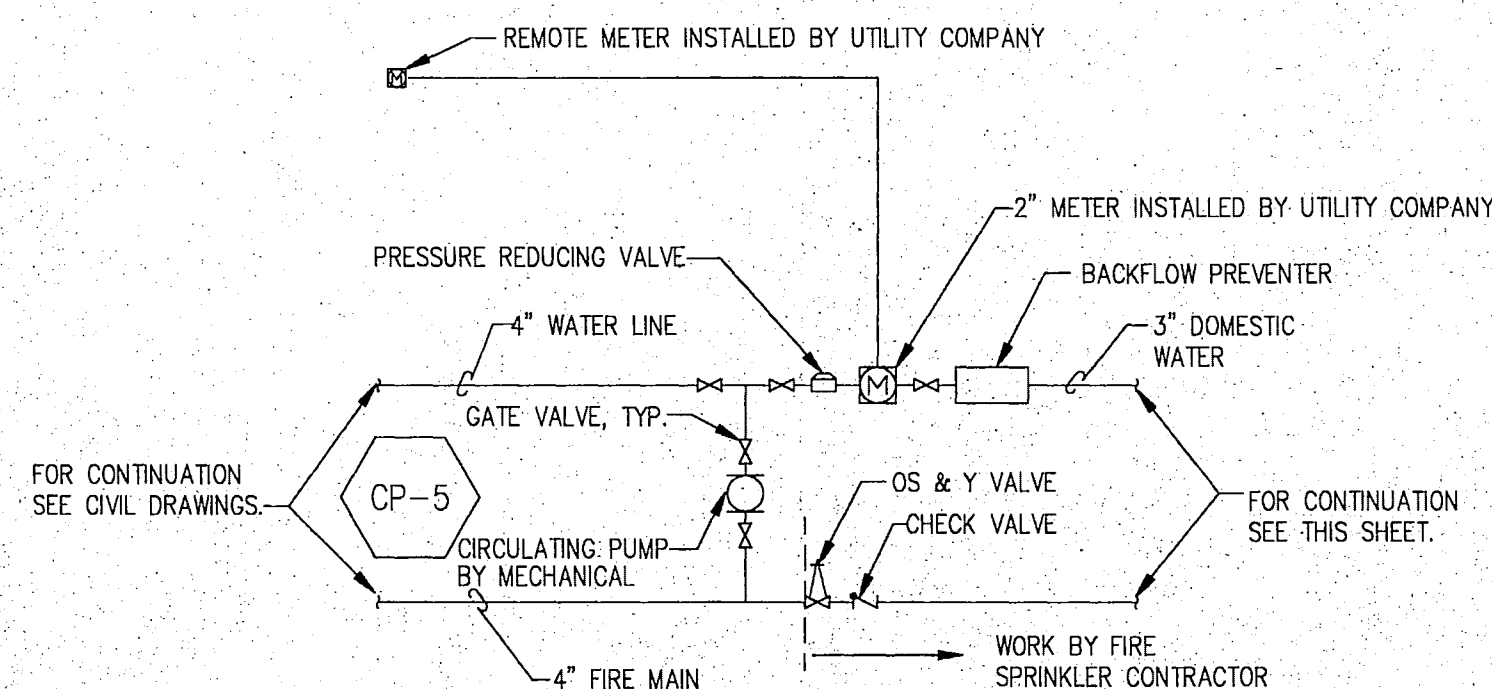
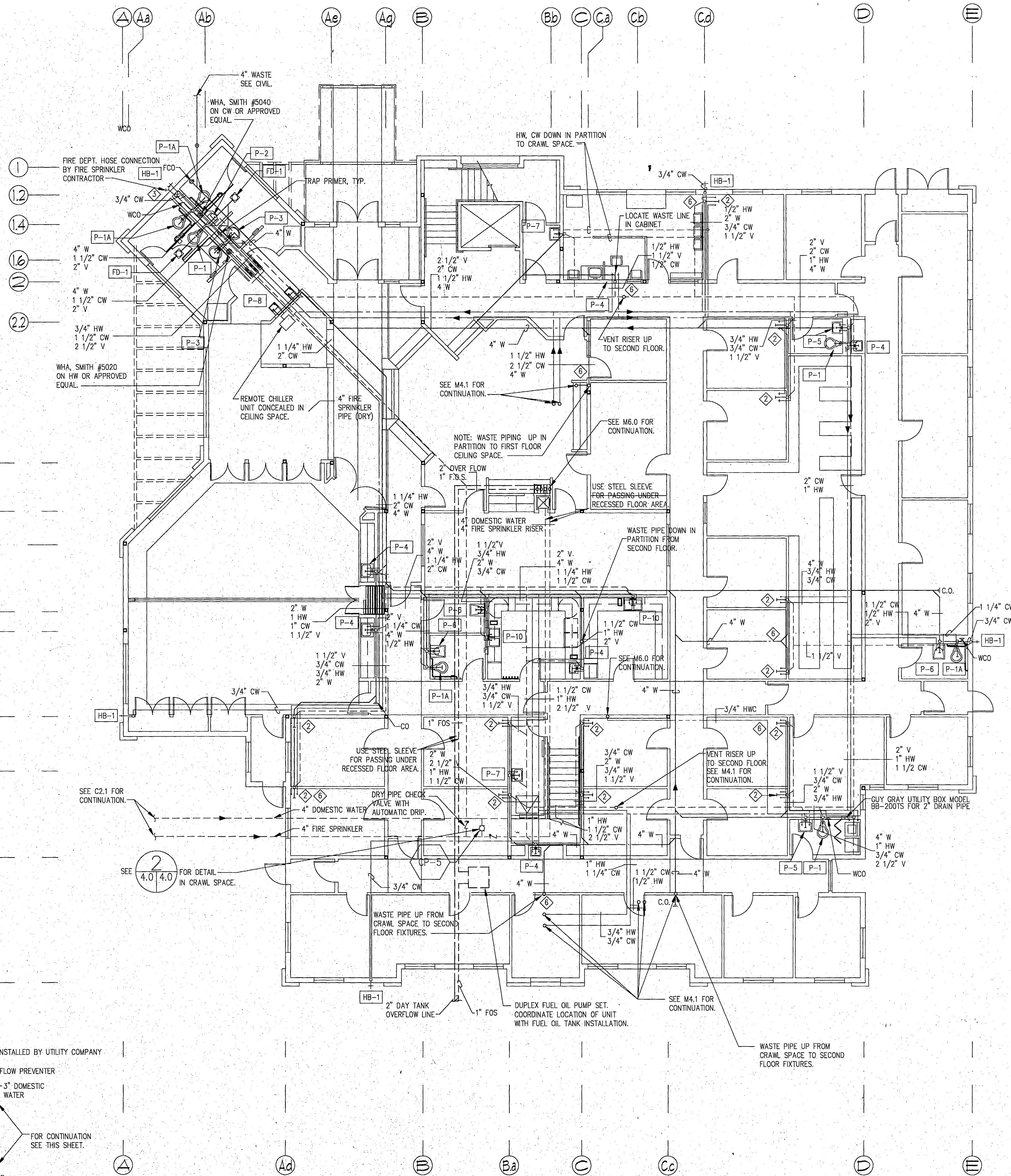
M3.1

SHEET NOTES

1. RUN WASTE PIPING IN CRAWL SPACE UNLESS OTHERWISE NOTED.
2. PLUMBING CONTRACTOR: ROUGH IN ALL COLD WATER, HOT WATER PIPING. ALL WASTE AND VENT FOR ALL SINKS FURNISHED BY OTHERS UNDER CASEWORK COORDINATE WITH GENERAL CONTRACTOR.
3. PLACE HOSE BIB BELOW FIRE DEPARTMENT CONNECTION.
4. DUCTILE IRON PIPE FOR UNDERGROUND PORTION OF WATER SERVICES ONLY. STOP AT CIRCULATION PUMP.
5. CONCRETE THRUST BLOCKS FOR SERVICES ARE TO BE 2'-2"x2'-2"x2'-2".
6. SEE GENERAL NOTE "A."

RECORD DRAWING

Ralph B. Burch
CITY ENGINEER, CITY OF FAIRBANKS
DATE 4/8/96



FIRST FLOOR — PLUMBING PLAN

SCALE: 1' = 1/8"

GENERAL NOTES

- A. ADD CLEANOUTS IN THE CRAWL SPACES AT THE FOLLOWING LOCATIONS:
- (1) AT BASE OF RISER UNDER ROOM 158
 - (2) AT END OF T UNDER ROOM 154
 - (3) AT BASE OF RISER UNDER ROOM 115
 - (4) AT BASE OF RISER UNDER ROOM 112
 - (5) AT END OF 45" WASTE PIPE UNDER ROOM 132
 - (6) AT BASE OF RISER UNDER ROOM 139
 - (7) AT END OF 45" WASTE PIPE UNDER ROOM 139
- B. ADD ISOLATION VALVES TO MAIN BRANCHES AND RISERS FOR HOT, COLD AND RECIRCULATION HOT WATER PIPING.

City of Fairbanks

FAIRBANKS HEALTH CENTER

Fairbanks, Alaska

LIVINGSTON
STONE
Architecture Engineering
Interior Design Planning

3900 Arctic Blvd., Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2056

PROJECT NO. 116.00

DRAWN BY PW

CHECKED BY DH

DATE DEC 9, 1992

REVISED

TITLE

PLUMBING
FIRST FLOOR
PLAN

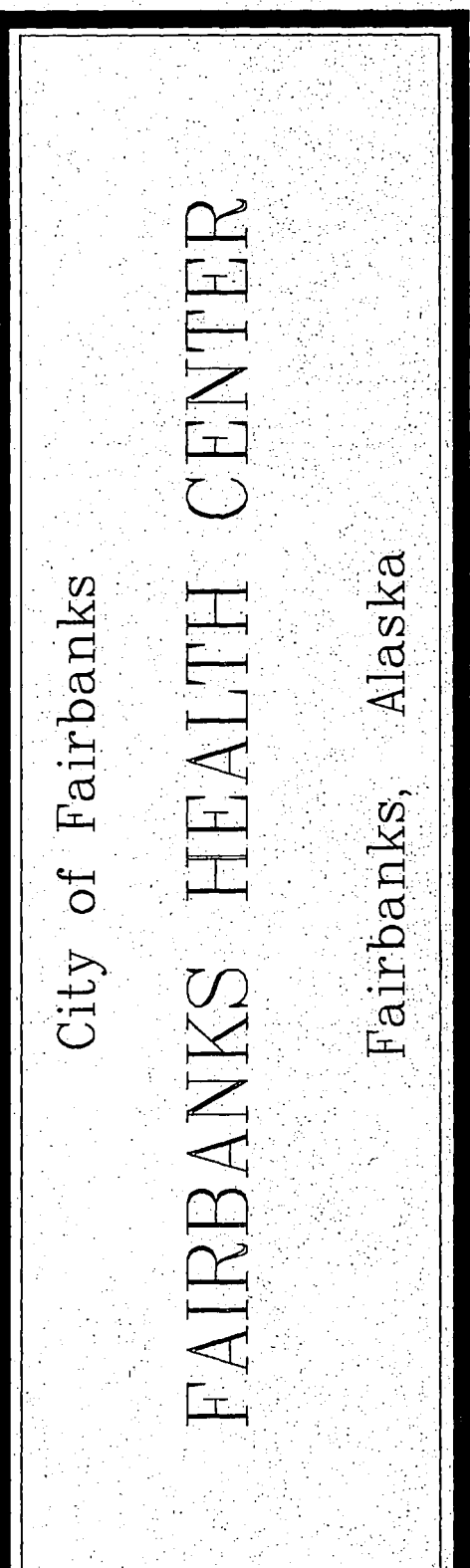
SHEET NO.

M4.0

SHEET NOTES

1. HW, CW AND HWC IS TO BE INSULATED.
2. WASTE PIPE SHOWN IS IN FIRST FLOOR PLENUM SPACE UNLESS OTHERWISE NOTED.
3. MAKE OFFSET FOR SPRINKLER RISER, DOMESTIC WATER, FOS AND FO OVERFILL IN FIRST FLOOR CEILING SPACE.
4. ADD ISOLATION VALVES TO DOMESTIC HOT, COLD AND RECIRCULATING PIPING AT EVERY MAIN BRANCH T'S AND MAIN RISERS.

1. HW, CW AND HWC IS TO BE INSULATED.
2. WASTE PIPE SHOWN IS IN FIRST FLOOR PLENUM SPACE UNLESS OTHERWISE NOTED.
3. MAKE OFFSET FOR SPRINKLER RISER, DOMESTIC WATER, FOS AND FO OVERFILL IN FIRST FLOOR CEILING SPACE.
4. ADD ISOLATION VALVES TO DOMESTIC HOT, COLD AND RECIRCULATING PIPING AT EVERY MAIN BRANCH T'S AND MAIN RISERS.



LIVINGSTON
STONE
Interiors

3900 Arctic Blvd., Suite 301
3500 Central Expressway
Alaska 99503-5790
(907) 582-2098

PROJECT NO. 116.00
DRAWN BY PW
CHECKED BY DH
DATE DEC 9, 1992
REVISED

TITLE

**PLUMBING
SECOND FLOOR
PLAN**

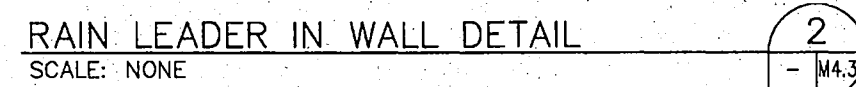
SHEET NO.

M4.1

F3.0.023

RECORD DRAWING

Rufus D. Branch
CITY ENGINEER, CITY OF FAIRBANKS
4/8/96
DATE



Rufus B. Branch
CITY ENGINEER, CITY OF FAIRBANKS
4/8/96
DATE

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

**LIVINGSTON
STONE**
Architecture, Engineering
Interior Design Planning
Incorporated

3900 Arctic Blvd., Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2058

PROJECT NO. 116.00
DRAWN BY PW
CHECKED BY DH
DATE DEC 9, 1992
REVISED

TITLE
MECHANICAL
ROOF DRAIN
PLAN
SHEET NO.

M4.2

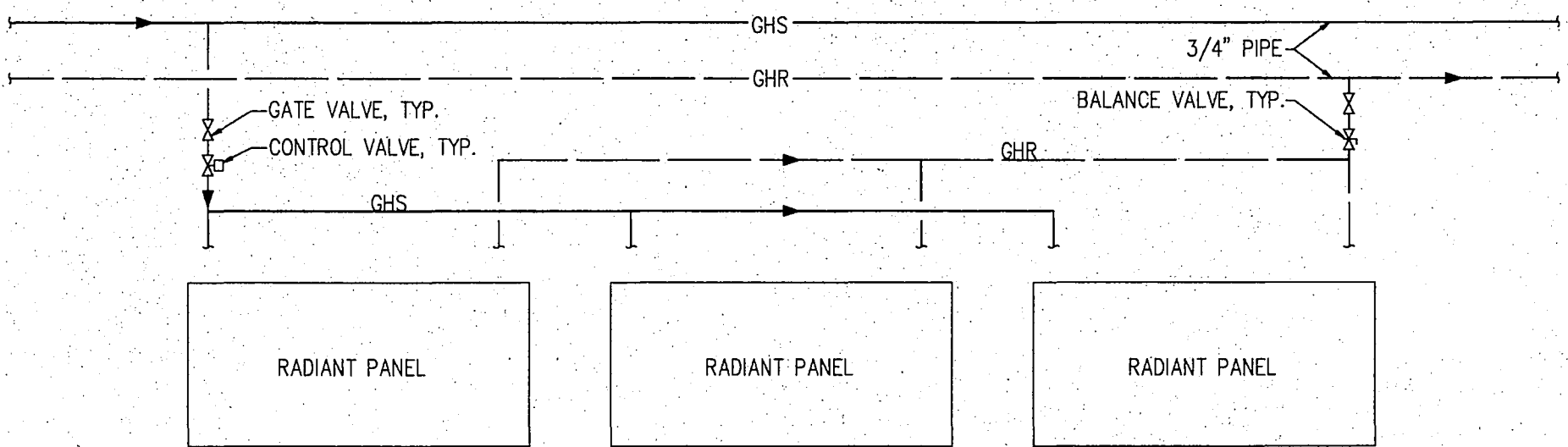
FHC_M4_2

F 3.0.022

RECORD
DRAWING

Robert B. Bunch
CITY ENGINEER, CITY OF FAIRBANKS
4-18-1996
DATE

GENERAL NOTE: CONTROL VALVES SHOWN ON BRANCHES SHALL BE 1/2";
CONTROL VALVES SHOWN ON DISTRIBUTION PIPING SHALL BE 3/4".

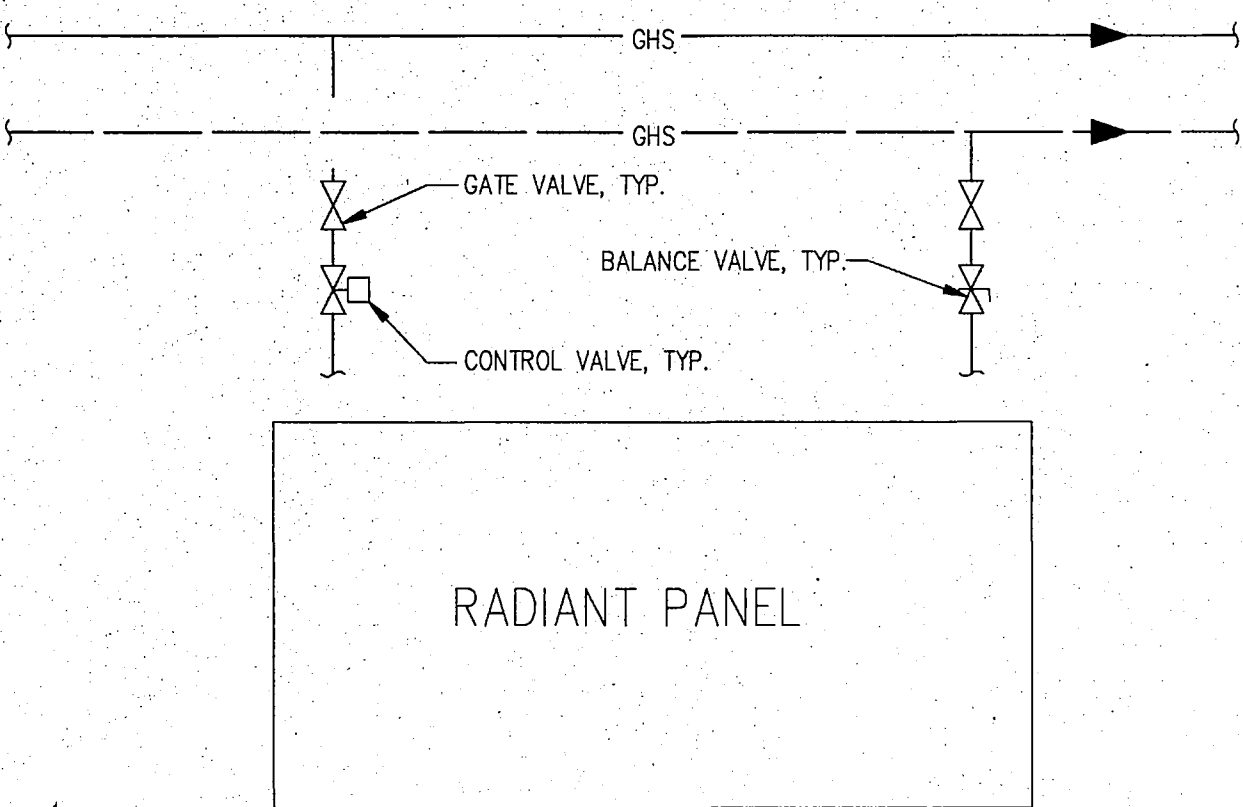


SERIES CONFIGURATION

NOTE: PROVIDE ADDITIONAL GATE VALVES TO THE SUPPLY
AND RETURN GLYCOL LINES SUCH THAT THE CONTROL
VALVES AND BALANCE VALVES CAN BE ISOLATED
FOR MAINTENANCE.

RADIANT HEATING PANEL PIPING DIAGRAM
SCALE: NONE

A
M2.0 M2.1 M5.0

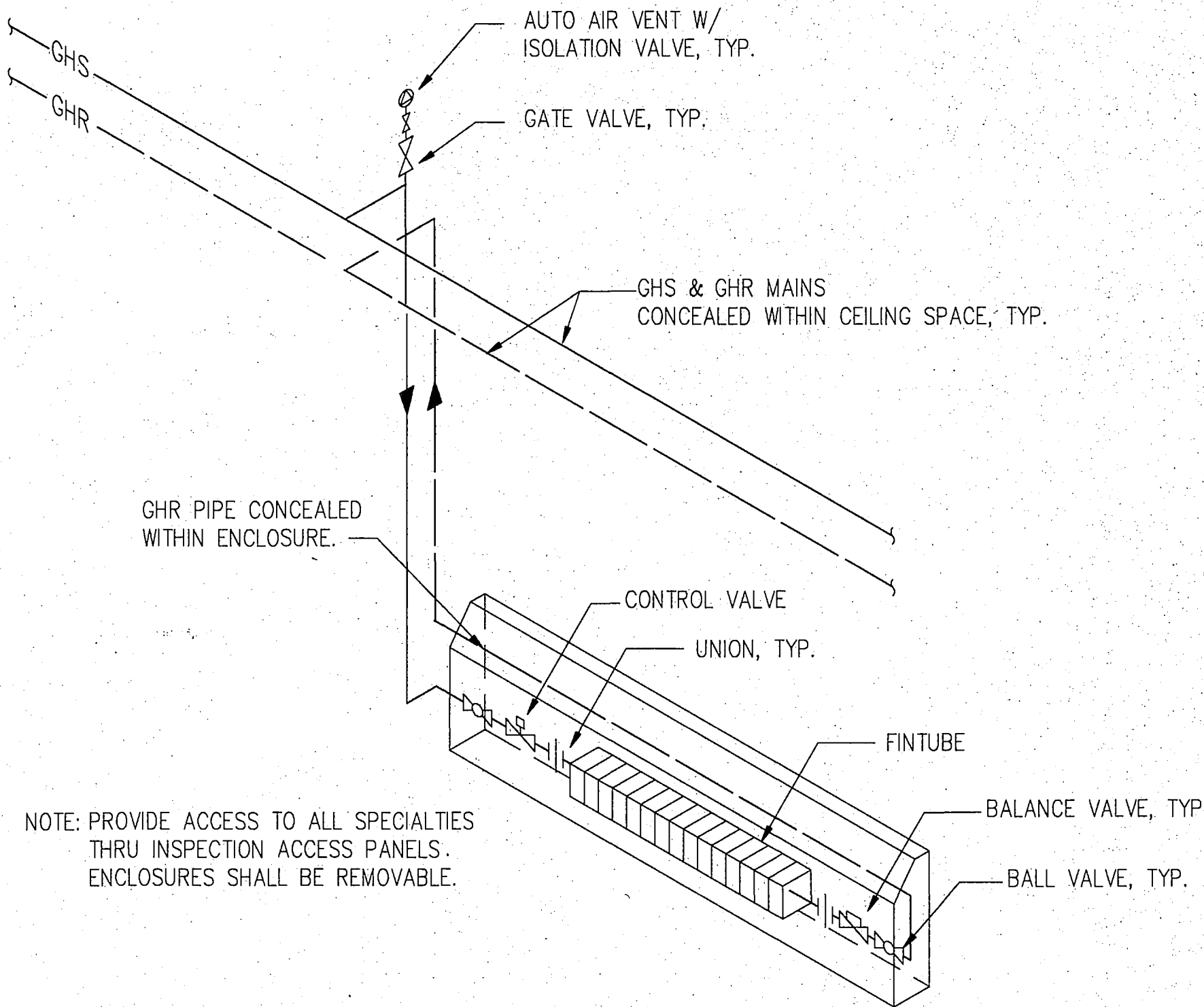


SINGULAR CONFIGURATION

NOTE: PROVIDE ADDITIONAL GATE VALVES TO THE SUPPLY
AND RETURN GLYCOL LINES SUCH THAT THE CONTROL
VALVES AND BALANCE VALVES CAN BE ISOLATED
FOR MAINTENANCE.

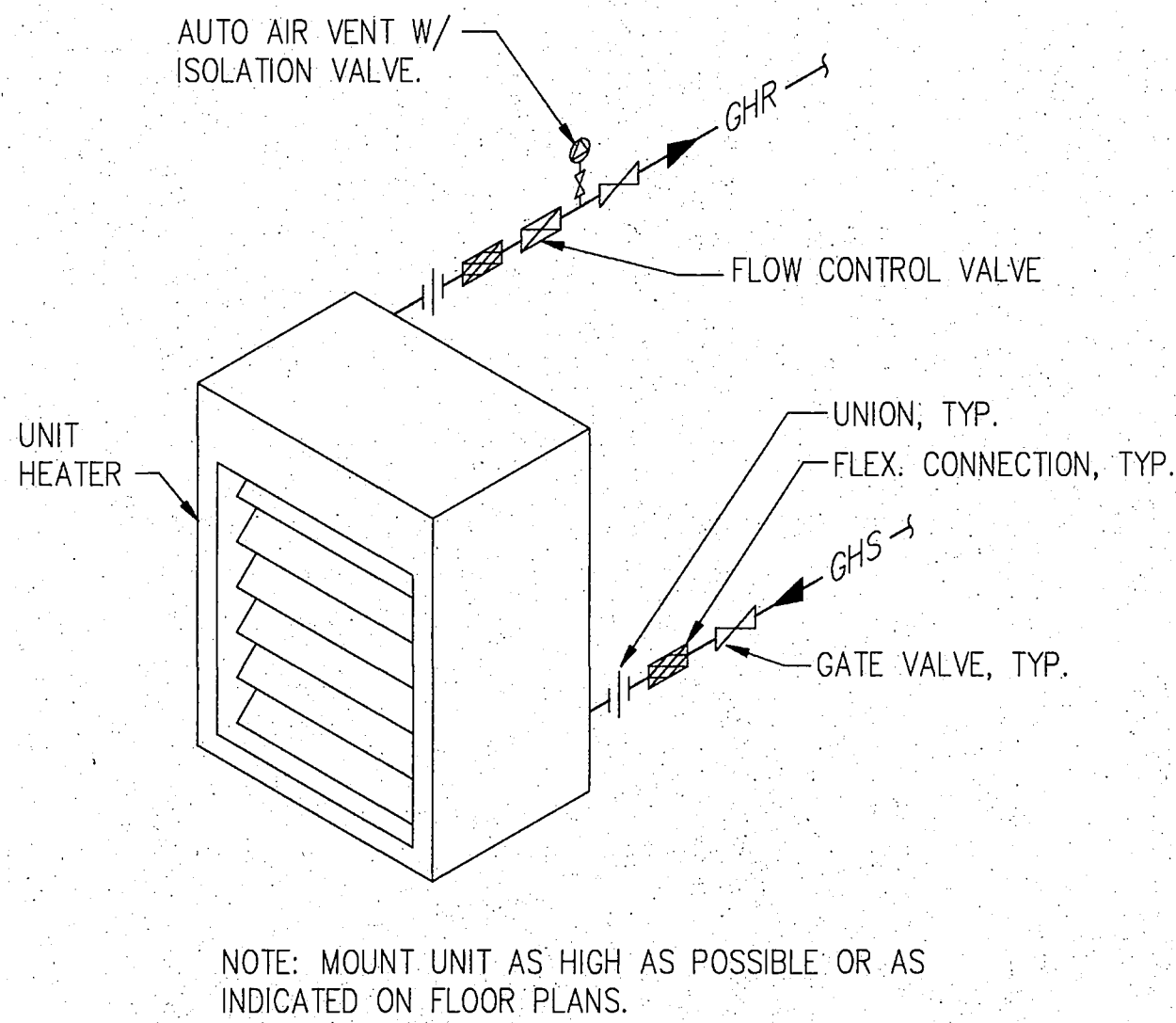
RADIANT HEATING PANEL PIPING DIAGRAM
SCALE: NONE

B
M2.0 M2.1 M5.0



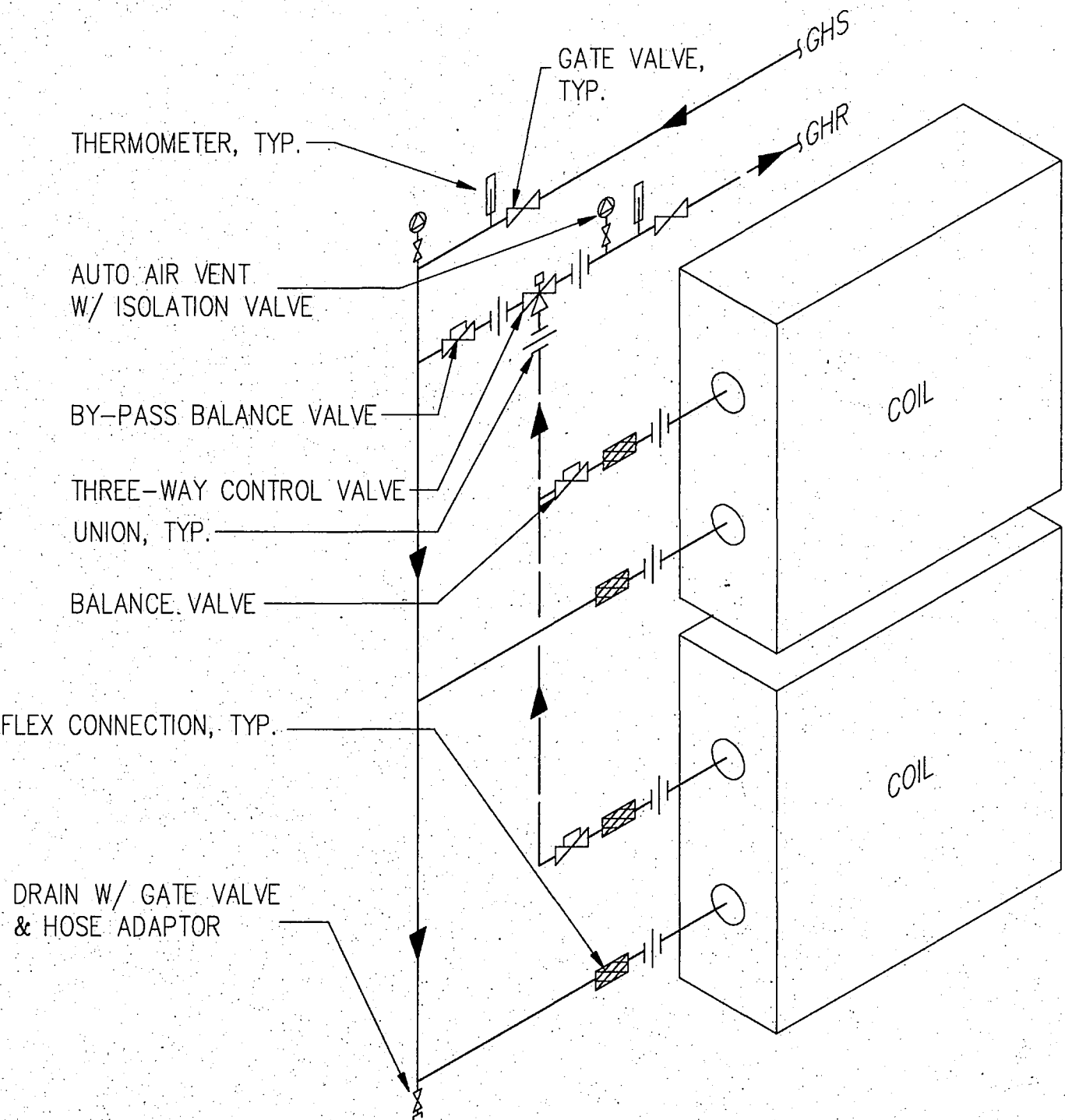
TYP. BB-1 PIPING ISOMETRIC
SCALE: NONE

C
M2.1 M5.0



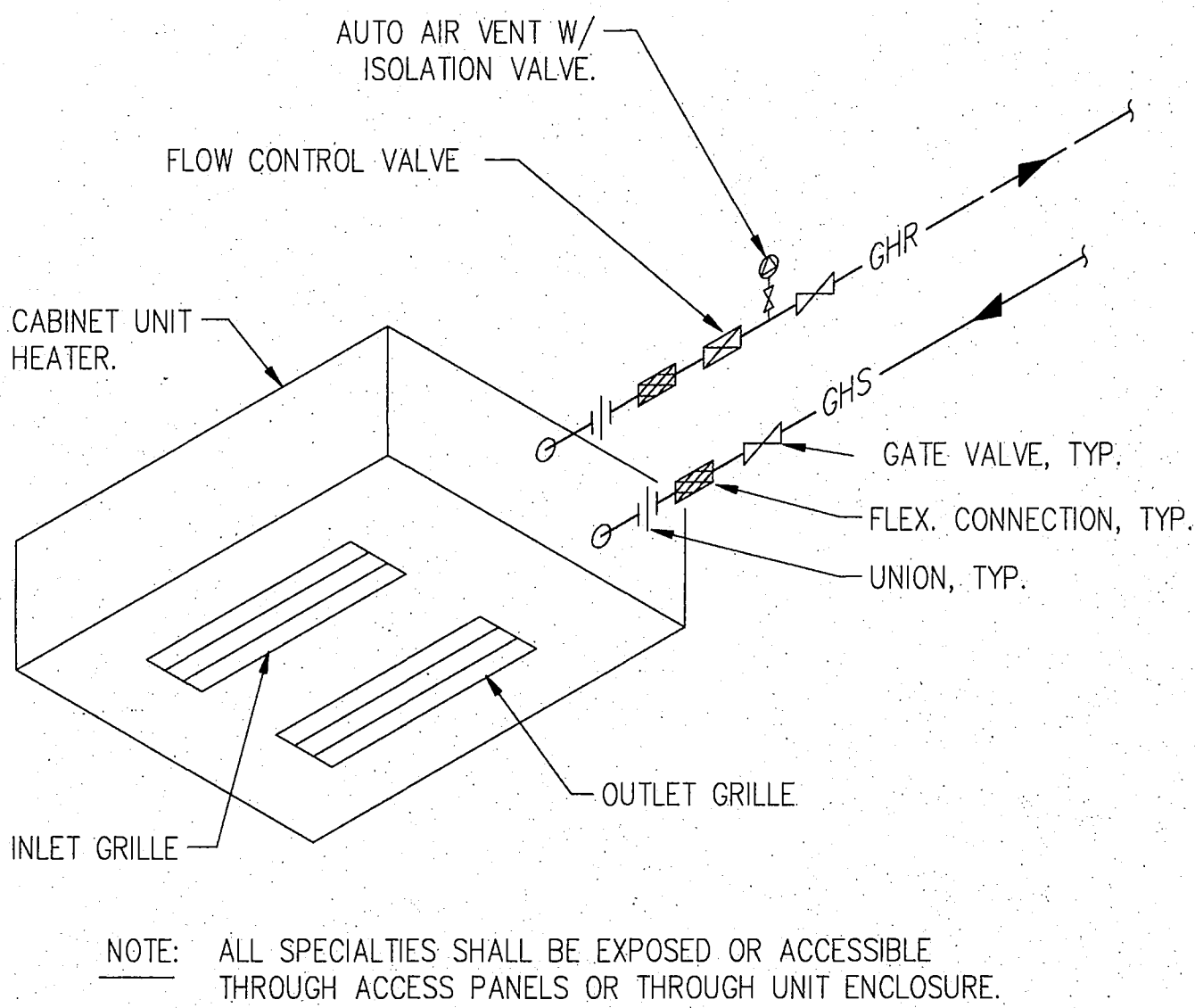
UNIT HEATER PIPING ISOMETRIC
SCALE: NONE

D
M2.0 M5.0



AHU-1 COIL PIPING ISOMETRIC
SCALE: NONE

E
M6.0 M5.0



CABINET UNIT HEATER PIPING ISOMETRIC
SCALE: NONE

F
M2.0 M5.0

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

LIVINGSTON
STONE
Architecture Engineering
Interior Design Planning

3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2056

PROJECT NO. 116.00
DRAWN BY PW
CHECKED BY DH
DATE DEC 9, 1992
REVISED

TITLE
PIPING
DETAILS

SHEET NO.

M5.0

FHC_M5_0

RECORD
DRAWING

Rufus B. Bunch
CITY ENGINEER, CITY OF FAIRBANKS

DATE 4/8/96

City of Fairbanks
FAIRBANKS HEALTH CENTER

Fairbanks, Alaska

LIVINGSTON
STONE
Architecture Engineering
Interior Design Planning

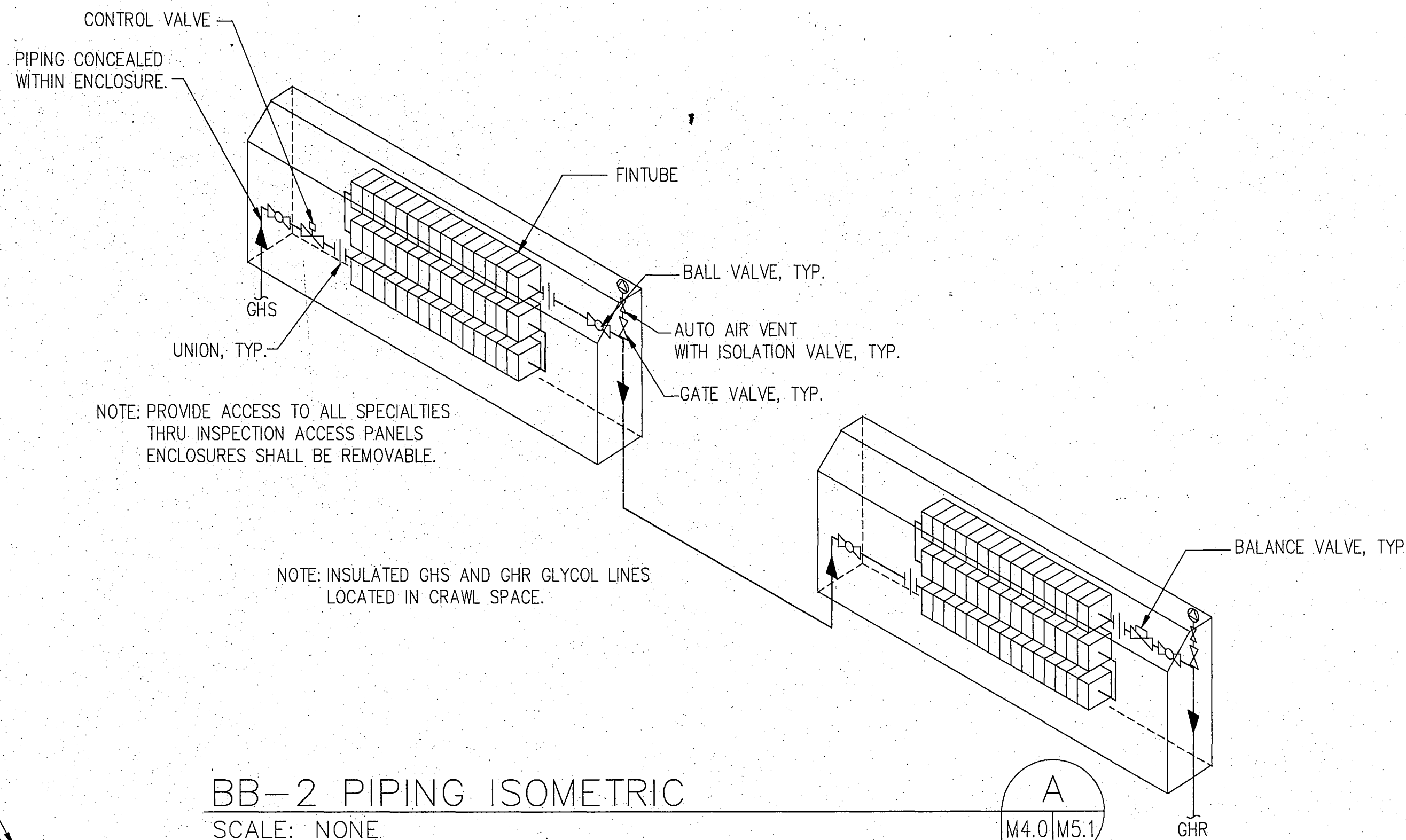
3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2058

PROJECT NO. 116.00
DRAWN BY PW
CHECKED BY DH
DATE DEC 9, 1992
REVISED

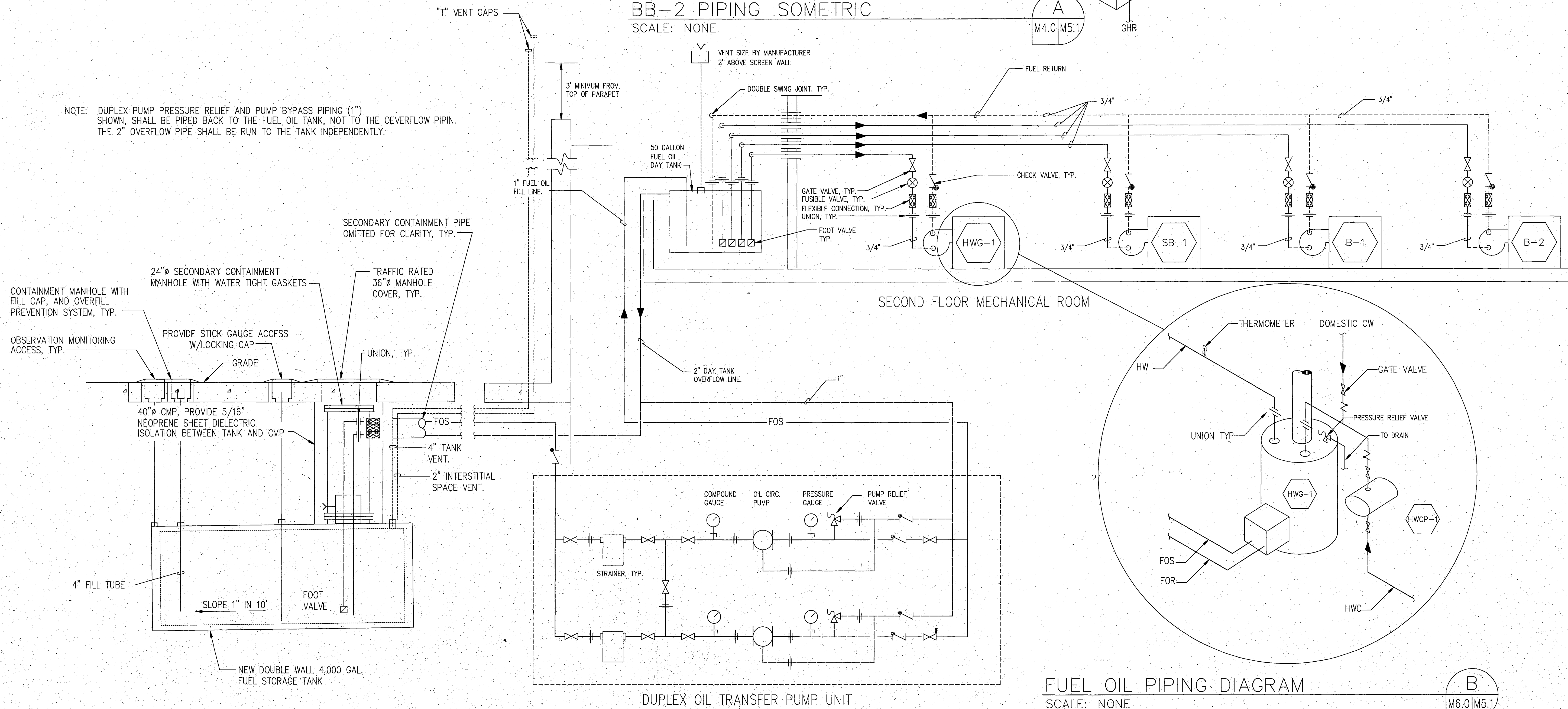
TITLE
**HYDRONIC/FUEL
PIPING
DIAGRAMS**
SHEET NO.

M5.1

F3.0.020

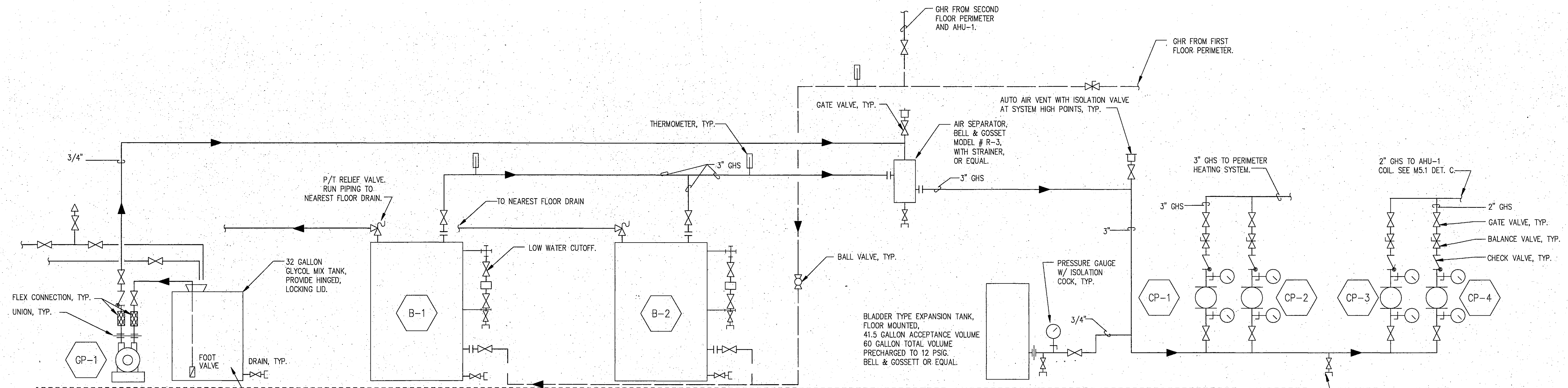


NOTE: DUPLEX PUMP PRESSURE RELIEF AND PUMP BYPASS PIPING (1") SHOWN, SHALL BE PIPED BACK TO THE FUEL OIL TANK, NOT TO THE OVERFLOW PIPIN. THE 2" OVERFLOW PIPE SHALL BE RUN TO THE TANK INDEPENDENTLY.



FUEL OIL PIPING DIAGRAM
SCALE: NONE

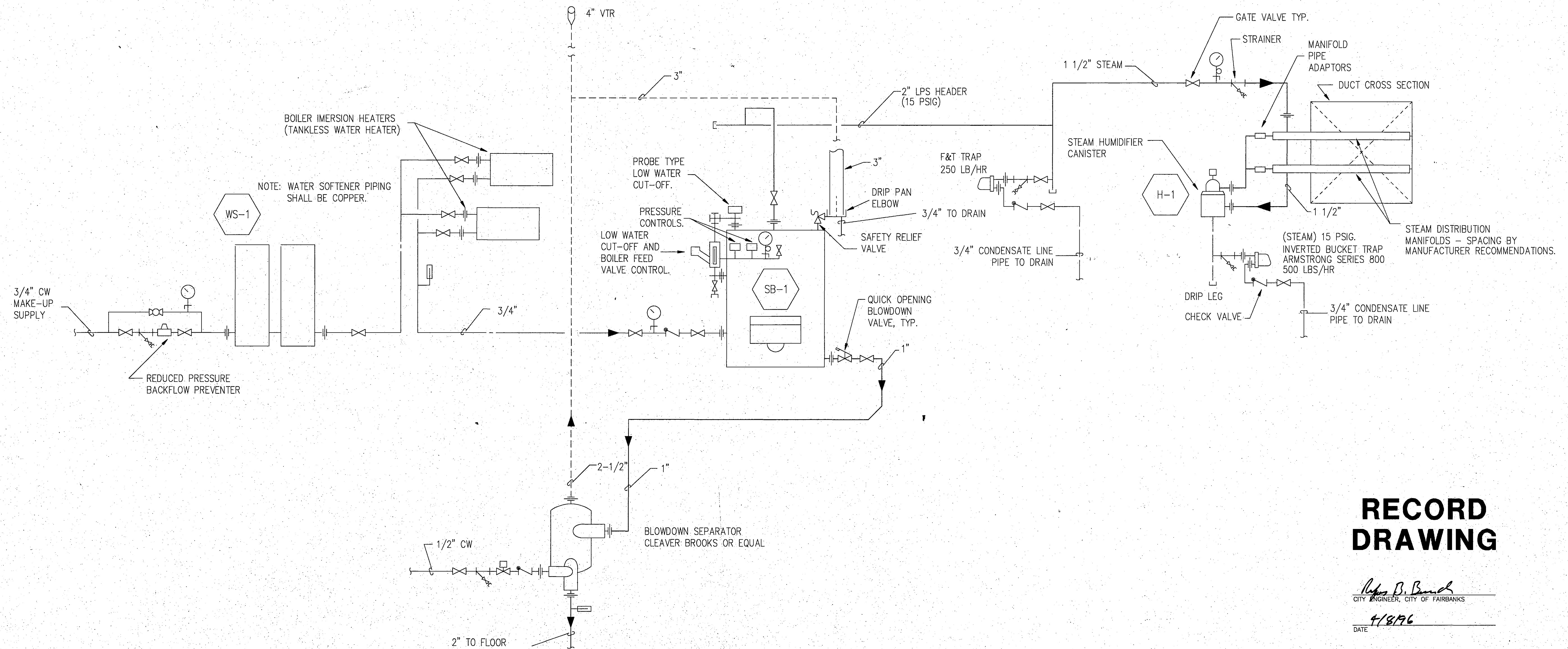
B
M6.0 M5.1



PAINT SIGN ON GLYCOL TANK
IN 1" HIGH LETTERS WHICH READS:
ETHYLENE GLYCOL / WATER
50/50 MIX ONLY.

HYDRONIC SYSTEM PIPING DIAGRAM
SCALE: NONE

A
M5.1 M5.3



HUMIDIFICATION SYSTEM PIPING DIAGRAM
SCALE: NONE

B
M5.1 M5.3

**RECORD
DRAWING**

Robert B. Burch
CITY ENGINEER, CITY OF FAIRBANKS
DATE 4/8/96

FHC_M5_2

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

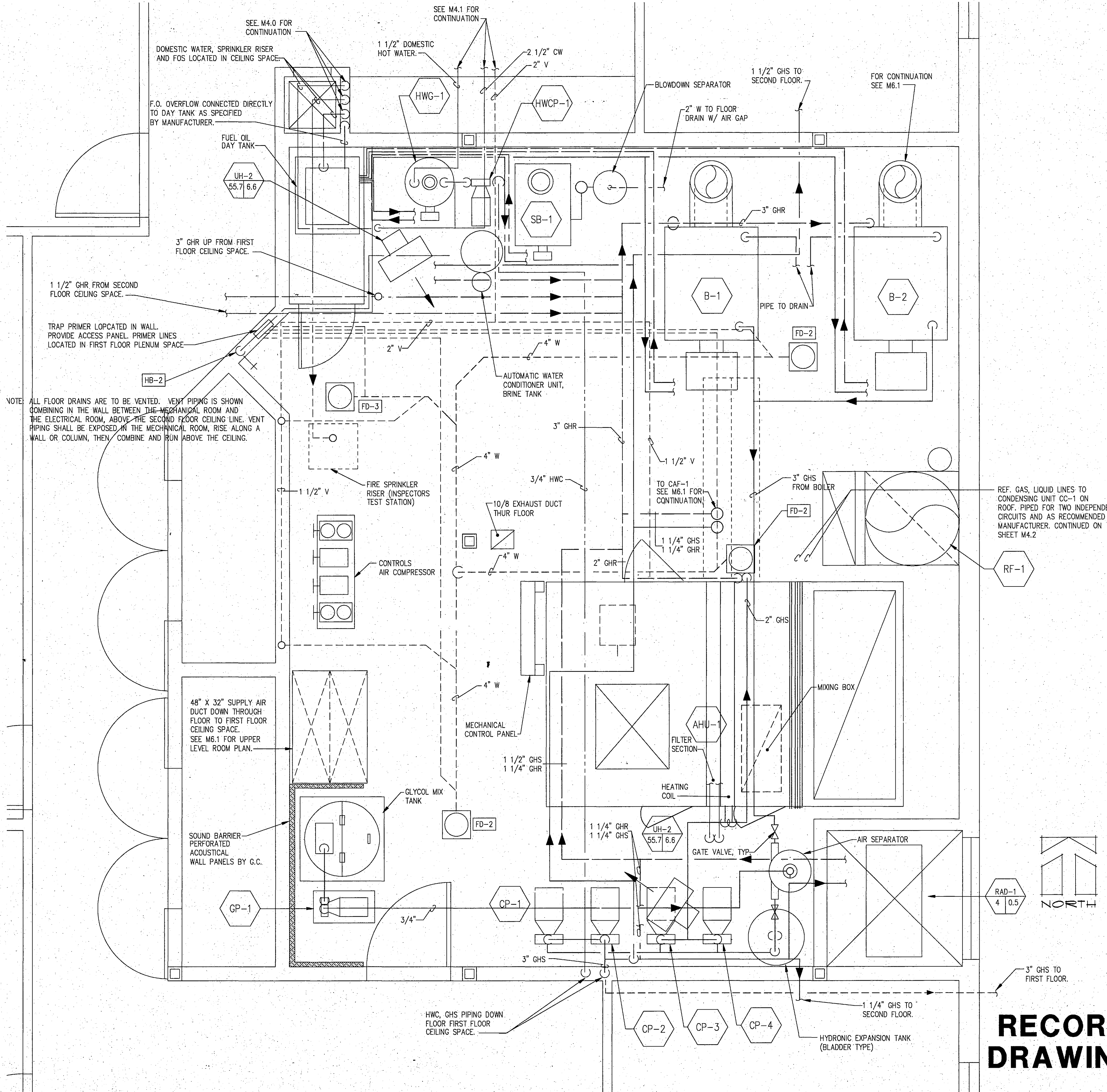
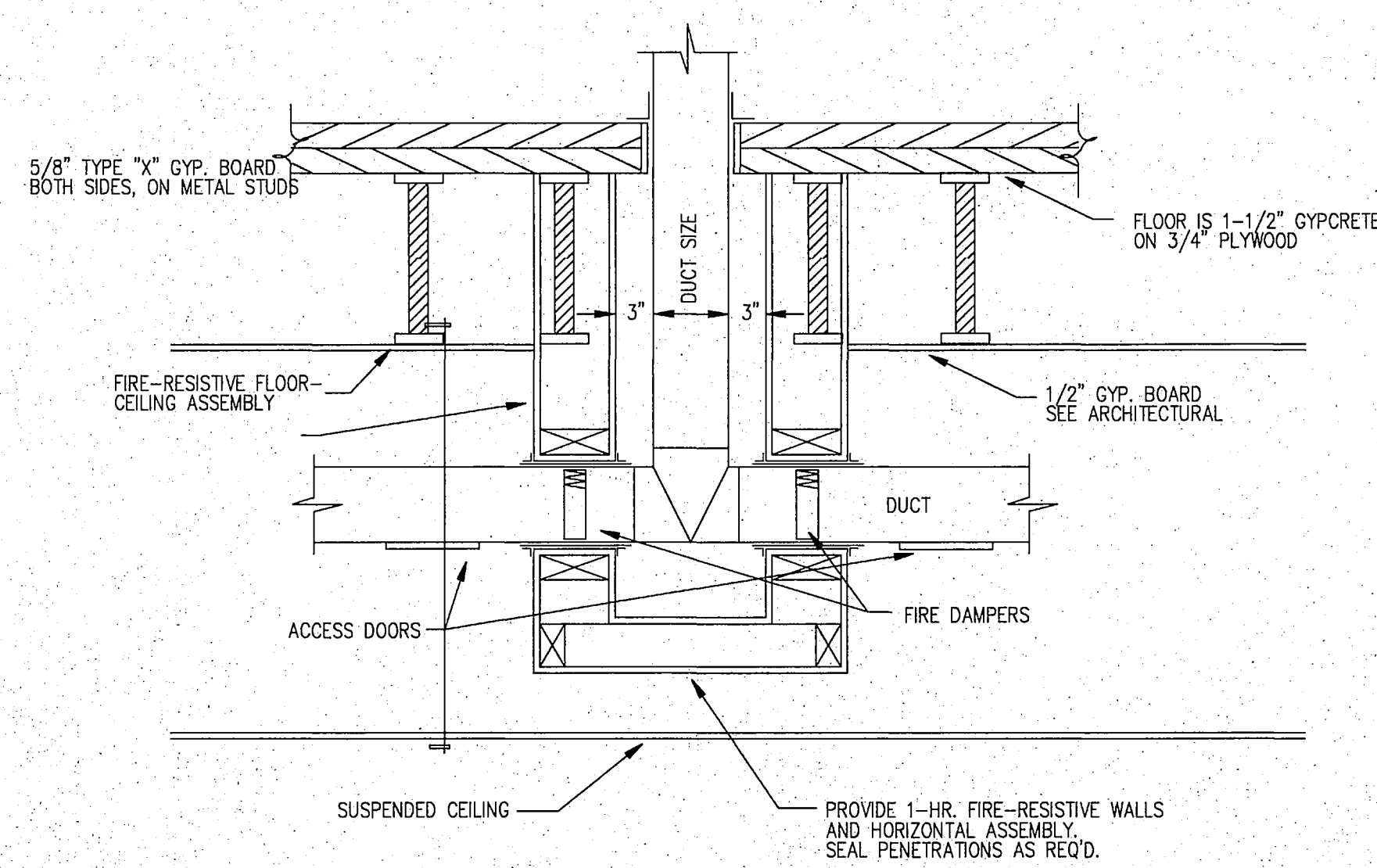
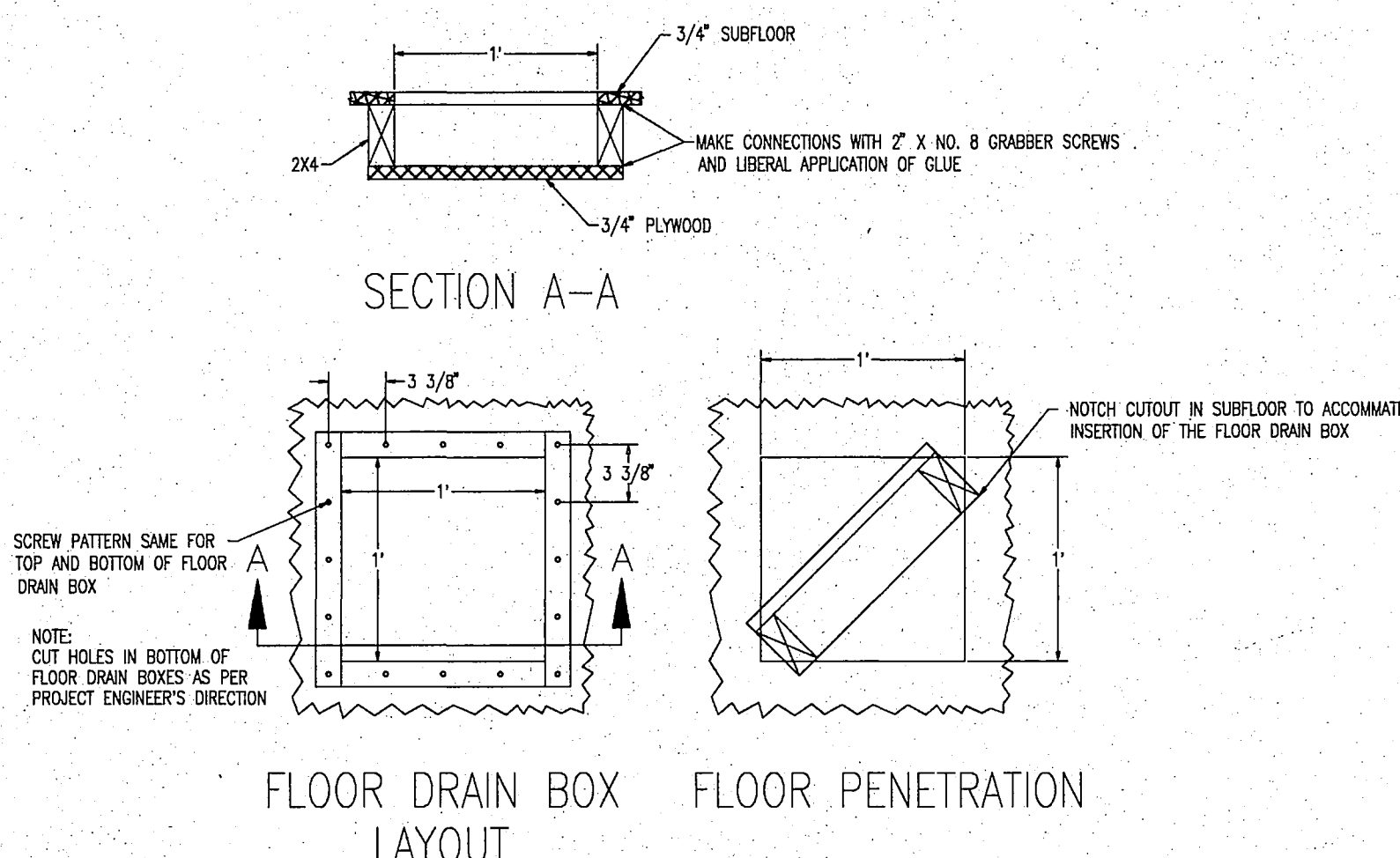
**LIVINGSTON
STONE**
Architecture, Engineering
Interior Design Planning
3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2058

PROJECT NO. 116.00
DRAWN BY GJ, PW
CHECKED BY DH
DATE DEC 9, 1992
REVISED

TITLE
**HUMIDIFICATION/
HYDRONIC PIPING
DIAGRAMS**

SHEET NO.
M5.2

- # SHEET NOTES
- SEE  FOR FUEL PIPING DIAGRAM.
 - SEE  FOR HYDRONIC PIPING DIAGRAM.
 - SEE  FOR HUMIDIFICATION SYSTEM PIPING DIAGRAM.
 - SEE  FOR UH-2 PIPING ISOMETRIC.
 - SEE  FOR RAD-1 PIPING DIAGRAM.



**RECORD
DRAWING**

Robert B. Bunch
CITY ENGINEER, CITY OF FAIRBANKS
4/8/96
DATE

City of Fairbanks

FAIRBANKS HEALTH CENTER

Fairbanks, Alaska

LIVINGSTON STONE

Architecture Engineering
Interior Design Planning

3800 Arctic Blvd., Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2055

PROJECT NO. 116.00

DRAWN BY PW

CHECKED BY DH

DATE DEC 9, 1992

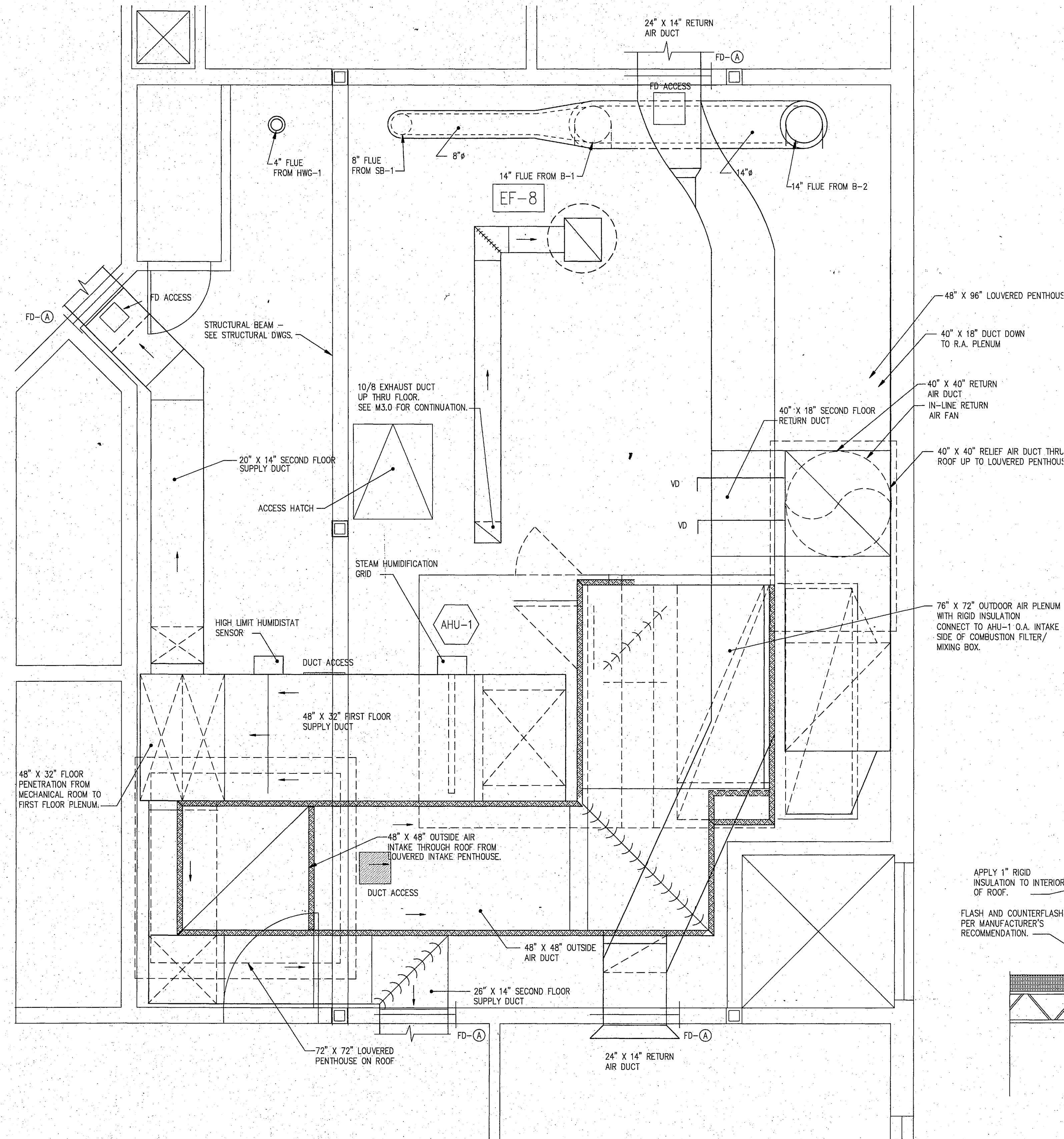
REVISED

TITLE

**LARGE SCALE
MECH. ROOM
LOWER LEVEL**

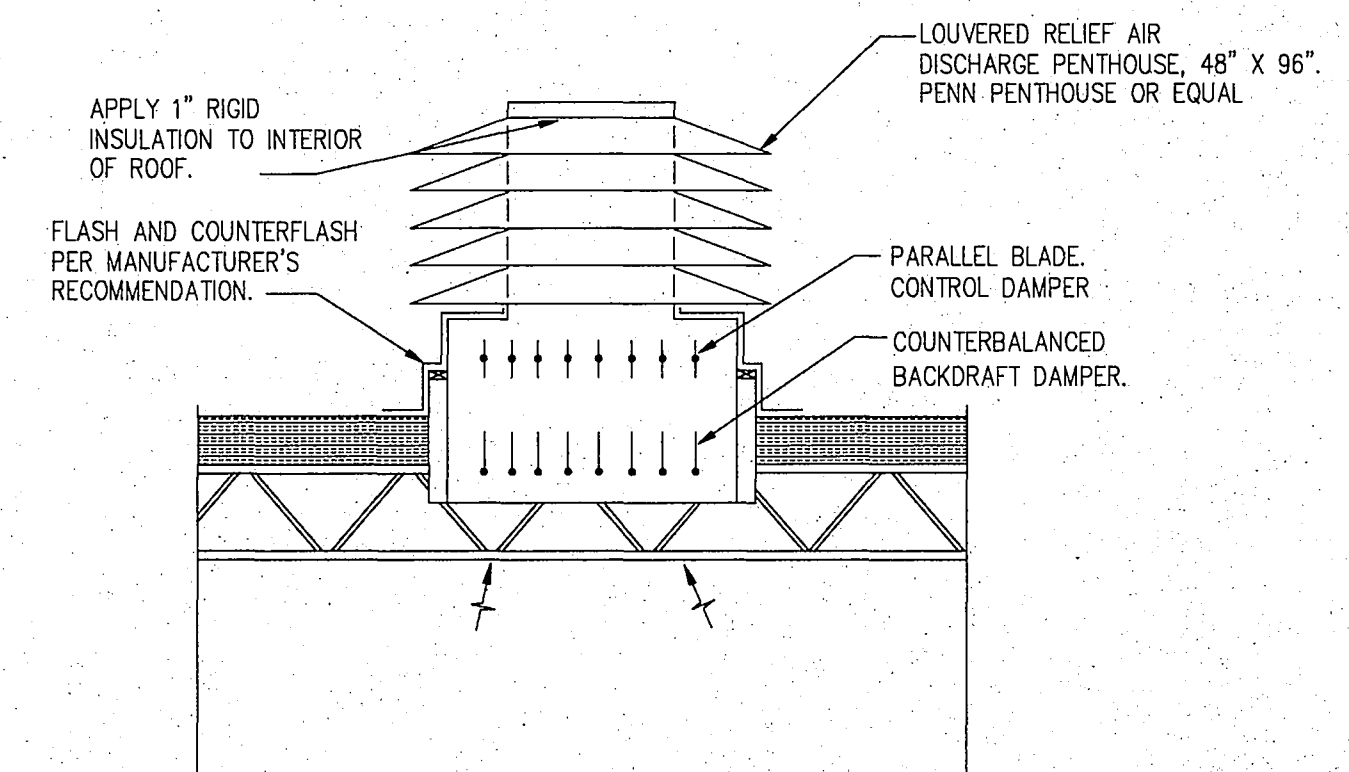
SHEET NO.

M6.0



RECORD DRAWING

Robert D. Bernal
CITY ENGINEER, CITY OF FAIRBANKS
DATE: 4/18/96



MECHANICAL ROOM — UPPER LEVEL
SCALE: 1/2"=1'

1
M3.0 M3.1 M6.1

RELIEF AIR DETAIL
SCALE: NONE

2
M6.1

City of Fairbanks
FAIRBANKS HEALTH CENTER

Fairbanks, Alaska

LIVINGSTON
STONE
Architecture Engineering Planning
3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-5555

PROJECT NO. 116.00
DRAWN BY PW
CHECKED BY DH
DATE DEC 9, 1992
REVISED

TITLE
**LARGE SCALE
MECH. ROOM
UPPER LEVEL**

SHEET NO.

M6.1

LIGHT FIXTURE SCHEDULE											
KEY		LAMPS	DESCRIPTION	MOUNTING HEIGHT	MANUF. NO. NOTE REF. (SEE NOTES 1-13)	KEY		LAMPS	DESCRIPTION	MOUNTING HEIGHT	MANUF. NO. NOTE REF. (SEE NOTES 1-13)
	NO	TYPE					NO	TYPE			
A/100		2 F40/SPX3 5/RS/WM	2 X 4 AIR HANDLING FLUOR. W/ACRYLIC PRISMATIC LENS, SPRING LOADED LATCHES.	RECESSED, CEILING.	LITHONIA #2SP FC 240 A12.125 120	U/100	2	F40/SPX3 5/RS/WM	6" FLUOR. DOWNLIGHT. ONE PIECE EXTRUDED ALUM. HOUSING, LINEAR PRISMATIC ACRYLIC LENS.	SURFACE, WALL MTD. UP 10'-0" A.F.F. WITHIN LIGHT WELL.	PEERLESS #LD6-102203-4'.
B/150		3 F40/SPX3 5/RS/WM	2 X 4 AIR HANDLING FLUOR. W/ACRYLIC PRISMATIC LENS, SPRING LOADED LATCHES.	RECESSED, CEILING.	LITHONIA #2SP FC 340 A12.125 120	V/100	1	LU70/T10 MED	SIMILAR TO T/100.	SEE NOTE 14.	ELLIPTIPAR #H151 070S X-COLOR TO MATCH SIGN-A-OV WITH ACS 24 TO MATCH.
C/200		4 F40/SPX3 5/RS/WM	2 X 4 AIR HANDLING FLUOR. W/ACRYLIC PRISMATIC LENS, SPRING LOADED LATCHES.	RECESSED, CEILING.	LITHONIA #2SP FC 440 A12.125 120	W/40	2	F40/SPX3 5/RS/WM	42" UNDERCABINET LIGHT, LOW PROFILE(1-1/8"), LOW BRIGHTNESS W/ROCKER SWITCH.	SURFACE MTD. ON UNDERSIDE OF CABINET.	LITHONIA #UC 42 120 SWR.
D/100		2 F40/SPX3 5/RS/WM	2 X 4 PARABOLIC FLUOR., 3" DEEP LOUVERS, 12-CELL.	RECESSED, CEILING.	LITHONIA #2PM3 GC 240 12 120.	X/200	1	LU150/55	FORM TEN H, ARM MOUNT, TYPE III DISTRIBUTION, MULTI-FORMED ALUM. HOUSING.	POLE MTD., ON 25' POLE.	GARDCO #H14 1 3 120 150HPS BRP.
E/100		2 F40SPX35 U6	2 X 2 PARABOLIC FLUOR., 3" DEEP LOUVERS, 6-CELL.	RECESSED, CEILING.	LITHONIA #2PM3 FB 2U40-6 120.	Y/400	2	LU150/55	FORM TEN H, ARM MOUNT, TYPE III DISTRIBUTION, MULTI-FORMED ALUM. HOUSING.	POLE MTD. ON 25' POLE.	GARDCO #H14 2 3 120 150HPS BRP.
F/150		3 F40/SPX3 5/RS/WM	2 X 4 AIR HANDLING PARABOLIC FLUOR., 3" DEEP LOUVERS, 18-CELL.	RECESSED, CEILING.	LITHONIA #2PM3 GC 340-18 120.	Z/200	1	LU150/55	FORM TEN WALL MOUNT, HOUSING IS MITERED EXTRUDED ALUM. W/ANODIZED FINISH.	MOUNT ON EXTERIOR SURFACE UP 15'-0" U.O.N.	GARDCO #WH14 1 FM 150HPS 120 BRP HS.
G/100			NOT USED			XA/15		PROVIDED WITH FIXTURE.	TWIN HEAD CYLINDER UNIT, COMPLETELY SELF-CONTAINED, MULTI-DIRECTIONAL SWIVEL LIGHTING HEAD.	MOUNT UP 7'-6" U.O.N.	DUAL-LITE #EDC-204.
H/100		1 LU70/D/ MED	9" ROUND H.I.D. DOWNLIGHT WITH TEMPERED PRISMATIC LENS, DAMP LABELED.	RECESSED, CEILING.	LITHONIA #LGH 70S 9RW 173.	EX/2		PROVIDED WITH FIXTURE.	12" L X 8" H X 2" THICK EXIT SIGN OF DIE-CAST ALUM. CONSTRUCTION W/STENCIL FACE, GREEN LETTERS, BRUSHED ALUM. FINISH, ELECTRO-LUMINESCENT PANEL, SELF POWERED BATTERY BACKUP.	SURFACE MTD. UP 7'-6" U.O.N.	LITHONIA #ELE-S-G-120-EL.
J/150		3 F40/SPX3 5/RS/WM	4' FLUORESCENT CHANNEL WITH 4' ASYMMETRIC REFLECTOR.	SURFACE, STAIRWAY COVE, SEE ARCH.	LITHONIA #JUN 340 120 AS 48.	NOTES: 1. VERIFY CEILING TYPES THROUGHOUT. PROVIDE ALL ACCESSORIES, TRIM, FLANGES, OUTLET BOXES, ETC. FOR COMPLETE AND FINISHED INSTALLATION. 2. PROVIDE FLUORESCENT ENERGY CONSERVING ELECTRONIC BALLASTS IN COMBINATION WITH 4' LONG ENERGY CONSERVING LAMPS THROUGHOUT, UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS. 3. PROVIDE ALL FIXTURES WITH LABEL SUITABLE FOR APPLICATION PER NATIONAL ELECTRICAL CODE. 4. PROVIDE 3- AND 4-LAMP FLUORESCENT FIXTURES WITH OUTBOARD LAMPS ON ONE 2-LAMP BALLAST AND CENTER LAMP(S) ON SEPARATE 1- OR 2-LAMP BALLAST FOR MULTILEVEL SWITCHING UNLESS OTHERWISE NOTED. 5. MANUFACTURER'S LISTED ARE TO ESTABLISH A LEVEL OF QUALITY AND TYPE OF EQUIPMENT. SIMILAR EQUIPMENT MAY BE SUBMITTED FOR APPROVAL AS EQUAL. 6. ALL LIGHTING FIXTURES SHALL BE SUITED FOR CONNECTION TO 120 VOLT CIRCUITS UNLESS OTHERWISE NOTED. 7. ALL EXTERIOR H.I.D. (HPS) LIGHTING FIXTURES SHALL HAVE -70 DEG. F. RATED BALLASTS MINIMUM. 8. WHERE ONLY ONE FIXTURE TYPE DESIGNATION IS SHOWN ON THE PLANS IN A ROOM WITH MORE THAN ONE FIXTURE SYMBOL OF THE SAME SIZE AND SHAPE, THE INTENT IS TO INDICATE THAT ALL FIXTURES ARE THE SAME TYPE UNLESS OTHERWISE NOTED. 9. PROVIDE STANDARD F40SPX35/RS LAMPS AND 0 DEG. F. BALLASTS FOR FLUORESCENT UNITS NOTED ON THE DRAWING. 10. ALL MOUNTING HEIGHTS SPECIFIED ARE TO CENTER LINE OF UNIT, UNLESS OTHERWISE NOTED. 11. PROVIDE BASE PLATE, DECORATIVE BASE PLATE COVER, ANCHOR BOLTS WITH DOUBLE NUTTING AND ALL OTHER ACCESSORIES TO MOUNT LUMINAIRES ON CONCRETE POLE BASES PER DETAIL 2, SHEET E7.1. 12. PROVIDE ALIGNMENT CLIPS FOR CONNECTION OF CONTINUOUS ROW MOUNTING OF LIGHTING FIXTURES. 13. WHERE AIR HANDLING IS REFERENCED, PROVIDE AIR SUPPLY/RETURN AND HEAT REMOVAL OPENINGS WITHOUT DAMPERS OR SUPPLY BOOTS. 14. V/100 MOUNTING: FIXTURES TO BE MOUNTED ON 24" CANTILEVER ARMS FROM SIGN STRUCTURE. SEE ARCHITECTURAL ELEVATION. CANTILEVER SHALL SUPPORT 215 POUNDS STATIC WEIGHT WITHOUT DEFORMATION. PROVIDE ANCHOR BOLTS THROUGH SIGN'S STRUCTURE. PROVIDE REMOTE BALLASTS, FITTINGS, AND OTHER ACCESSORIES AS RECOMMENDED BY MANUFACTURER. SEE ALSO DETAIL 2/E1.1.					
K/150		1 LU100 HPS	FORM TEN H, OUTDOOR ARM MOUNTED HPS, TYPE III DISTRIBUTION.	POLE MTD. ON 25' POLE.	GARDCO #H14 1 1 120 100HPS BRP.						
L/40		2 F13BX/SP X35	8" ROUND COMPACT FLUOR. DOWNLIGHT.	RECESSED, CEILING.	MARCO #D447 HPF 131 468.						
M/60		2 F18DBXT4 /SPX35	8" ROUND COMPACT FLUOR. DOWNLIGHT.	RECESSED, CEILING.	MARCO #D448 HPF 488.						
N/40		2 F13BX/ SPX35	8" ROUND COMPACT FLUOR. WALLWASHER.	RECESSED, CEILING.	MARCO #D447/HPF1 31 465.						
P/50		1 Q50MR16/ WFL	4" SQUARE FIXTURE W/ADJUSTABLE TRIM AND REGRESSED BAFFLE, WHITE TRIM.	RECESSED, CEILING.	CSL #2080 CX.						
Q/100		2 F40/SPX3 5/RS/WM	INDUSTRIAL FLUOR. W/10% UPLIGHT, WHITE ENAMEL FINISH, HEAVY GAUGE STEEL REFLECTOR.	SURFACE, CEILING.	LITHONIA #AF 10 240 120.						
R/100		2 F40/SPX3 5/RS/WM	4' FLUOR. STRIP, HIGH GLOSS BAKED WHITE ENAMEL FINISH.	SURFACE, CEILING ABOVE ARCHITECTURAL LOUVER.	LITHONIA #JUN 240 120.						
S/100		2 F40/SPX3 5/RS/WM	6" ROUND UPLIGHT, ONE PIECE EXTRUDED ALUM. HOUSING, LINEAR PRISMATIC ACRYLIC LENS.	AIRCRAFT CABLE WITH COILED CORD FEED PENDANT MTD. UP 9'-0".	PEERLESS #LD6-020205-4' TYPE P & L MOUNTINGS.						
T/100		1 LU70/T10 MED	OUTDOOR HIGH PRESSURE SODIUM W/ASYMMETRIC REFLECTOR, SINGLE PIECE EXTRUDED SPECULAR ALUM. & REMOTE BALLAST.	SURFACE, CEILING MTD. COORD. WITH ARCH. CANOPY FEATURES.	ELLIPTIPAR #H 151.070S V-02-A-00 WITH AVB 0200.						

1

NOTE KEY - INDICATES NOTES APPLICABLE ON EACH SHEET.

A/150

LIGHTING FIXTURE TYPE - SEE LIGHTING FIXTURE SCHEDULE.

2 2 2 3

SWITCHES UP 4'-0", U.O.N.: SPST;DPST; THREE-WAY.

1

MANUAL MOTOR SWITCH WITH THERMAL OVERLOAD(S)

P

AS SUBSCRIPT NEAR SWITCH OR OTHER DEVICE INDICATES WITH ADJACENT PILOT LIGHT. CONNECT SO PILOT LIGHT IS ILLUMINATED WHEN LOAD IS "ON".

o

LOWER CASE SUBSCRIPT INDICATES PHASE OR SWITCH CONNECTION WHERE MULTIPLE PHASE OR SWITCHING CONNECTIONS ARE MADE.

H.I.D.

HIGH-INTENSITY DISCHARGE.

SURFACE OR PENDANT MOUNTED INCANDESCENT OR H.I.D. FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.

WALL MOUNTED INCANDESCENT, FLUORESCENT, OR H.I.D. FIXTURE. SEE LIGHTING FIXTURE SCHEDULE.

RECESSED INCANDESCENT FLUORESCENT OR H.I.D. FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.

RECESSED OR SURFACE CEILING MOUNTED FLUORESCENT FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.

WALL MOUNTED FLUORESCENT FIXTURE - SEE LIGHTING FIXTURE SCHEDULE.

ARCHITECTURAL LIGHTING UNIT - SEE LIGHTING FIXTURE SCHEDULE.

BATTERY-OPERATED EMERGENCY LIGHTING UNIT - SEE LIGHTING FIXTURE SCHEDULE.

PORCELAIN KEYLESS ("P&S" #110) WITH 100 WATT A-19 LAMP: CEILING, WALL MOUNTED. COORDINATE HEIGHT WITH ELEVATOR EQUIPMENT INSTALLATION.

PHOTOCELL ON 3'-0" CONDUIT STEM ABOVE ROOF. FLASH & COUNTERFLASH PENETRATION AS REQUIRED BY ROOF ASSEMBLY, SEE ARCHITECTURAL.

LC-1

LIGHTING CONTACTOR - NUMBER INDICATES SPECIFIC CONTACTOR TYPE & CONFIGURATION.

GFCI PROTECTED DUPLEX RECEPTACLE, UP 42", U.O.N.

WEATHERPROOF GFCI PROTECTED DUPLEX RECEPTACLE, WITH GASKETED COVER, UP 24", U.O.N.

DUPLEX RECEPTACLE UP 18", U.O.N.

SPECIAL CONFIGURATION OUTLET OF TYPE INDICATED, UP 18", U.O.N.

HEADBOLT HEATER ASSEMBLY - MOUNTED ON POST.

FLUSH MOUNTED FLOOR OUTLET WITH DUPLEX RECEPTACLE, U.O.N.

FLUSH FLOOR MOUNTED TELEPHONE OUTLET.

DUPLEX TELEPHONE OUTLET UP 18", U.O.N.

2

2 - DUPLEX TELEPHONE OUTLETS IN COMMON PLATE UP 18", U.O.N.

POWER/LIGHTING PANELBOARD, SURFACE MOUNTED.

FACP

FIRE ALARM CONTROL PANEL, FLUSH MOUNTED.

MULTI-SECTION DISTRIBUTION SWITCHBOARD.

T

LOCATION OF PAD FOR UTILITY TRANSFORMER

J

FLUSH MOUNTED JUNCTION BOX IN CEILING OR WALL AS NOTED.

MOTOR - H.P. VOLTAGE & PHASE AS NOTED.

HEAVY DUTY DISCONNECT, H.P. RATED WHEN USED IN MOTOR CIRCUITS, OTHERWISE AMPERE RATING MUST MATCH CIRCUIT RATING.

MOTOR CONTROLLER, H.P. RATED FULL VOLTAGE NON-REVERSIBLE, U.O.N.

H

FIRE ALARM COMBINATION HORN/VISUAL INDICATOR STATIONS FLUSH MOUNTED: NO PROJECTION UP 80", U.O.N.

H WP

WEATHERPROOF FIRE ALARM HORN (NO VISUAL INDICATOR) UP 14'-0". U.O.N.

F

MANUAL PULL STATION UP 4'-0", U.O.N.

FIRE ALARM VISUAL INDICATOR UP 80" U.O.N.

FIRE ALARM CONNECTION TO MAGNETIC DOOR HOLDER.

D

FIRE ALARM CONNECTION TO DOOR CLOSER MECHANISM.

H

H

F 135*

HEAT DETECTOR CEILING MOUNTED - FIXED TEMP. AND RATE-OF-RISE, U.O.N.; F=FIXED TEMP. ONLY WITH NOMINAL DEGREE RATING AS INDICATED.

1

PRODUCTS OF COMBUSTION DETECTOR CEILING MOUNTED, U.O.N.

1

PRODUCTS OF COMBUSTION DETECTOR WITH SUPPLY/RETURN AIR DUCT SAMPLING TUBE.

WP

WEATHERPROOF.

U.O.N.

UNLESS OTHERWISE NOTED.

(E)

EXISTING.

TTB

TELEPHONE TERMINAL BOARD.

UP

UNDERGROUND PRIMARY.

FLEXIBLE CONDUIT.

CONDUIT EXPOSED (NOTE A BELOW).

CONDUIT IN OR BELOW SLAB OR GRADE (NOTE A BELOW).

CONDUIT CONCEALED IN WALLS OR CEILING SPACE (NOTE A BELOW).

A-2,4

INDICATES HOME-RUN (NUMBER OF ARROWS=NUMBER OF CIRCUITS), (NOTE B BELOW).

NOTES:

GENERAL: ALL BRANCH CIRCUITS 2#12, 1/2" C. TO 20A., 1P. CIRCUIT-BREAKER, U.O.N., E.G., "1" A-30 (4#8, 3/4" C. TO 40/5) INDICATES CIRCUIT NUMBER 30 IN PANEL. "A" FEEDS TO EQUIPMENT FROM A 40A., 3P. CIRCUIT BREAKER WITH 4#8 AWG WIRES RUN IN 3/4" DIAMETER CONDUIT.

A. NUMBER OF WIRES (IF OTHER THAN TWO) INDICATED BY NUMBER OF SLASHES (/) TWO "HOT" WIRES AND ONE NEUTRAL WIRE).

B. HOME-RUN DESIGNATION: "A"=PANELBOARD NOTATION, "- 2,4"=CIRCUIT NUMBERS.

RECORD
DRAWING

Robert D. Posner

EE 7750

REGISTERED PROFESSIONAL ENGINEER

4/8/96

DATE

CITY ENGINEER, CITY OF FAIRBANKS

PROJECT NO. 915086/911125

DRAWN BY SKF/BDC

CHECKED BY JRP/RDP

DATE DECEMBER 9, 1992

REVISED

TITLE
ELECTRICAL
LEGEND AND
FIXTURE SCHED

SHEET NO.

E0.1

City of Fairbanks

FAIRBANKS HEALTH CENTER

Fairbanks, Alaska

LIVINGSTON

STONE

Architecture Engineering
Interior Design Planning

3900 Arctic Blvd, Suite 301
Anchorage, Alaska 99503-5790
(907) 565-8058

STATE OF ALASKA

40th

Robert D. Posner

EE 7750

REGISTERED PROFESSIONAL ENGINEER

PROJECT NO. 915086/911125

DRAWN BY SKF/BDC

CHECKED BY JRP/RDP

DATE DECEMBER 9, 1992

REVISED

TITLE
ELECTRICAL
LEGEND AND
FIXTURE SCHED

SHEET NO.

E0.1

F3.0.016

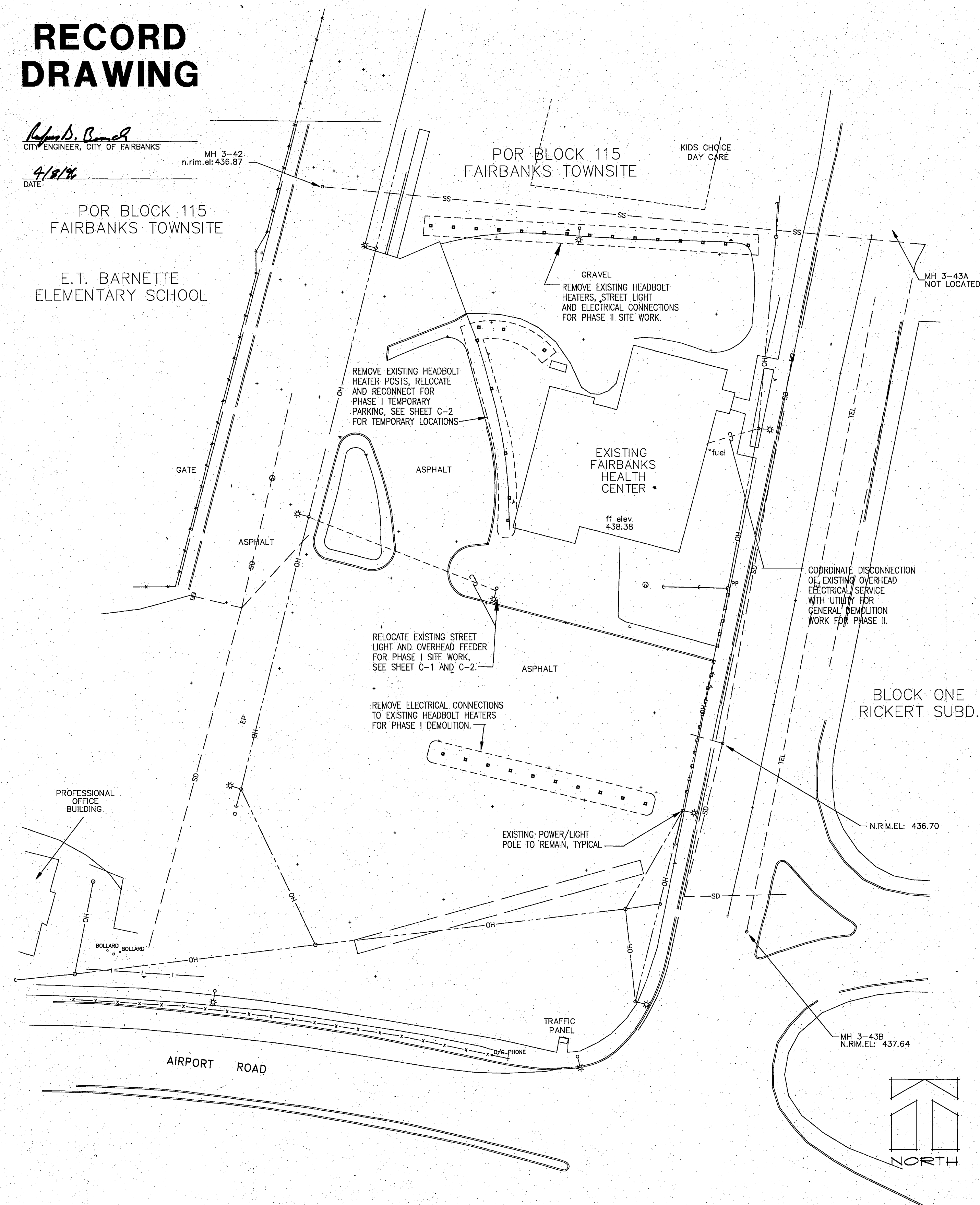
RECORD DRAWING

Robert D. Stone
CITY ENGINEER, CITY OF FAIRBANKS

DATE 4/8/92

POR BLOCK 115
FAIRBANKS TOWNSITE

E.T. BARNETTE
ELEMENTARY SCHOOL



ELECTRICAL SITE PLAN - PHASE I & II DEMOLITION
1"=30'-0"

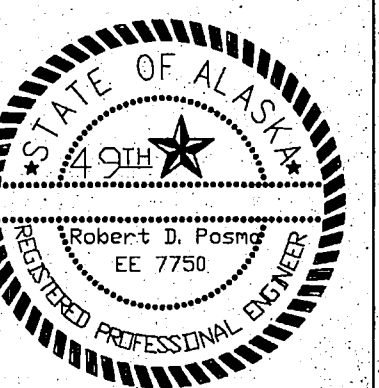


ELECTRICAL SITE PLAN - NEW WORK
1"=30'-0"

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

LIVINGSTON STONE
Architecture Engineering
Interior Design Planning

3900 Arctic Blvd. Suite 301
Fairbanks, Alaska 99705-5790
(907) 582-2058

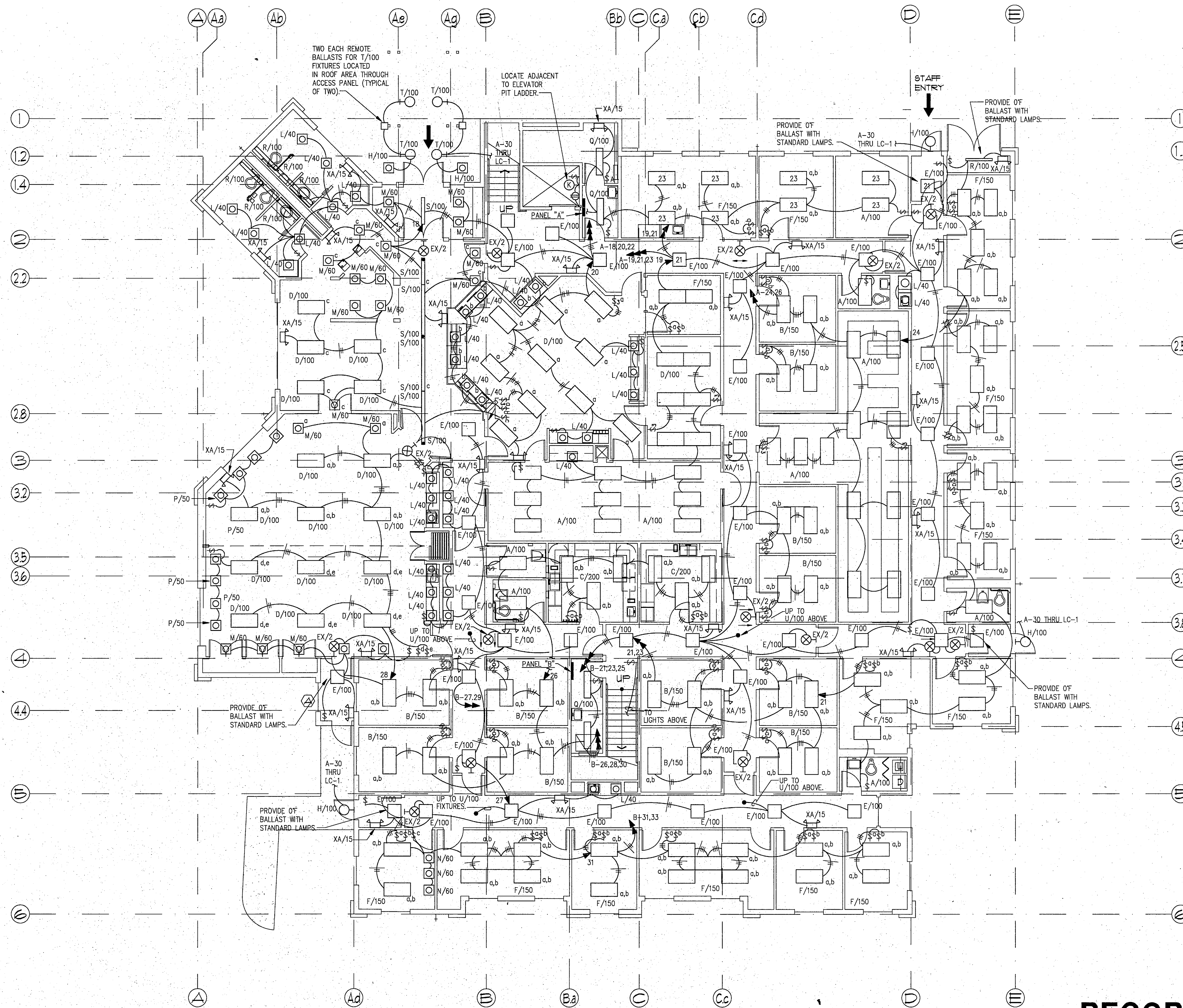


PROJECT NO. 915086/911125
DRAWN BY JRP/RDP
CHECKED BY JRP/RDP
DATE DECEMBER 9, 1992
REVISED

TITLE
**ELECTRICAL
SITE PLAN**

SHEET NO.

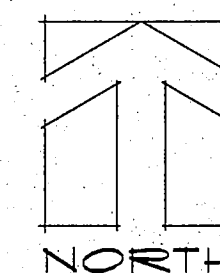
E1.1



1 FIRST FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

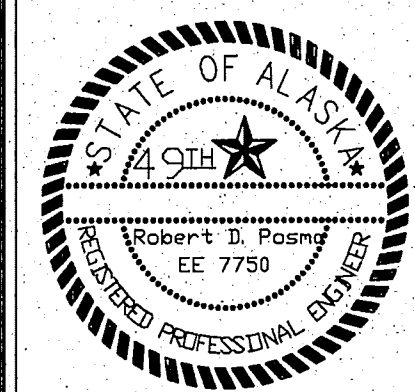
**RECORD
DRAWING**

Robert D. Benson
CITY ENGINEER, CITY OF FAIRBANKS
DATE 4/8/96



City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

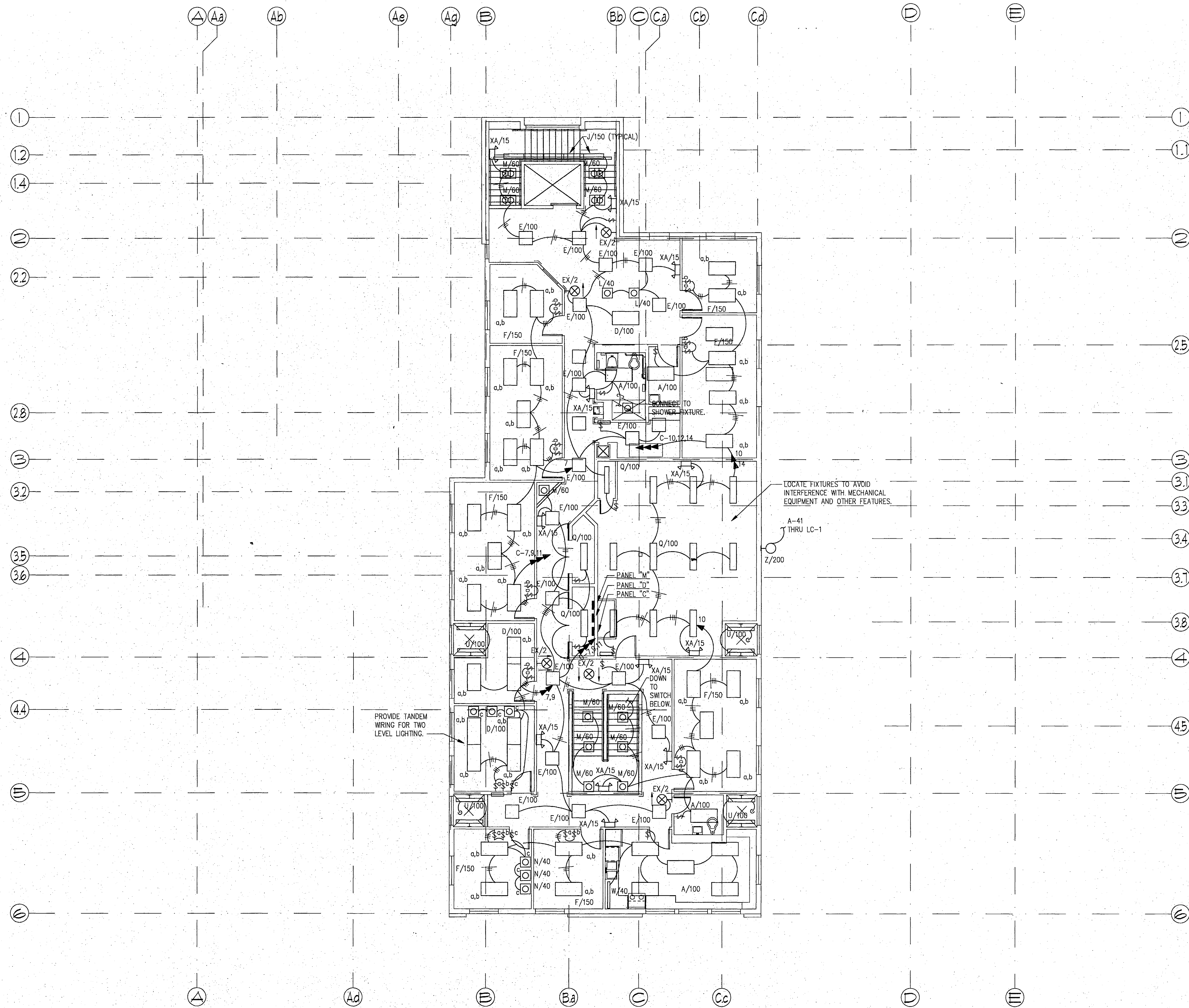
**LIVINGSTON
STONE**
Architecture Engineering
Interior Design Planning
3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2058



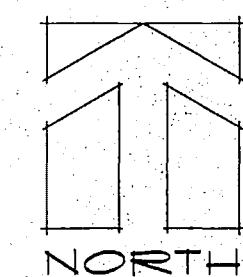
PROJECT NO. 915086/911125
DRAWN BY SKF
CHECKED BY JRP/RDP
DATE DECEMBER 9, 1992
REVISED

TITLE
**FIRST LEVEL
LIGHTING PLAN**

SHEET NO.
E2.1



1 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



**RECORD
DRAWING**

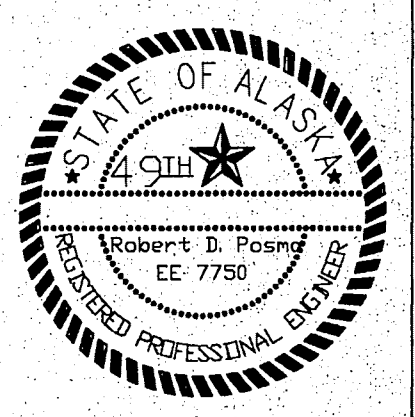
Stephen D. Denech
CITY ENGINEER, CITY OF FAIRBANKS
DATE 7/8/96

TITLE
**SECOND LEVEL
LIGHTING PLAN**

SHEET NO.

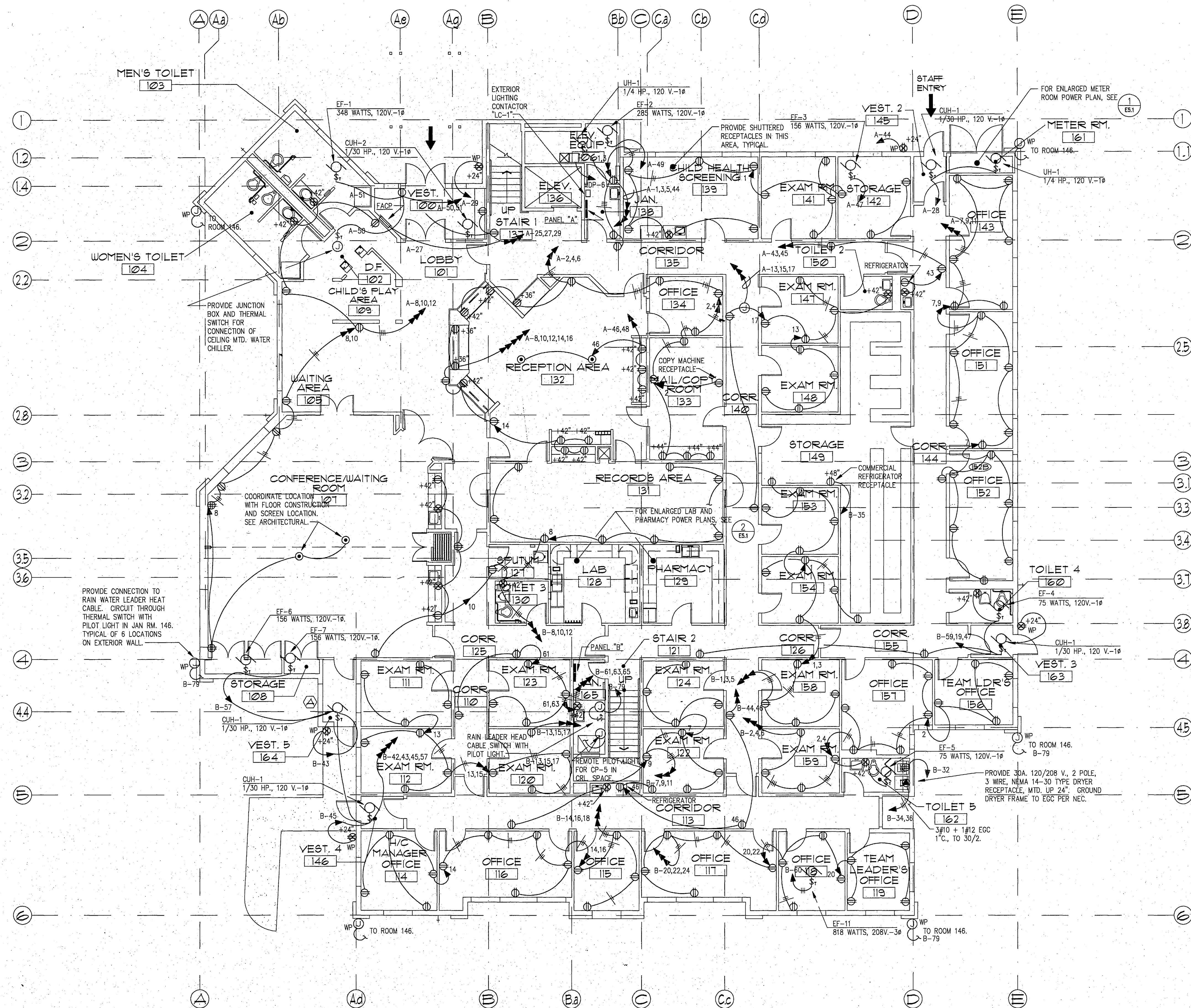
E2.2

**LIVINGSTON
STONE**
Architecture Engineering
Interior Design Planning
3900 Arctic Blvd, Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2058



PROJECT NO. 915086/911125
DRAWN BY SKF
CHECKED BY JRP/RDP
DATE DECEMBER 9, 1992
REVISED

City of Fairbanks
FAIRBANKS HEALTH CLINIC
FAIRBANKS, ALASKA



1 FIRST FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"



**RECORD
DRAWING**

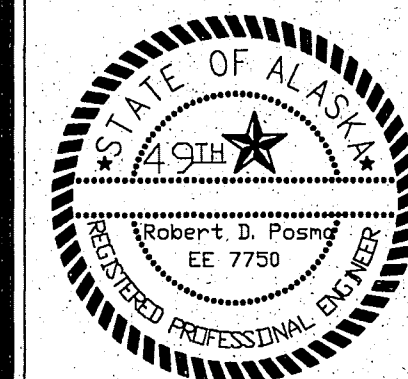
Rufus D. Bunnell
CITY ENGINEER, CITY OF FAIRBANKS

4/15/96
DATE

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

**LIVINGSTON
STONE**
Architecture Engineering
Interior Design
Planning

3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2638



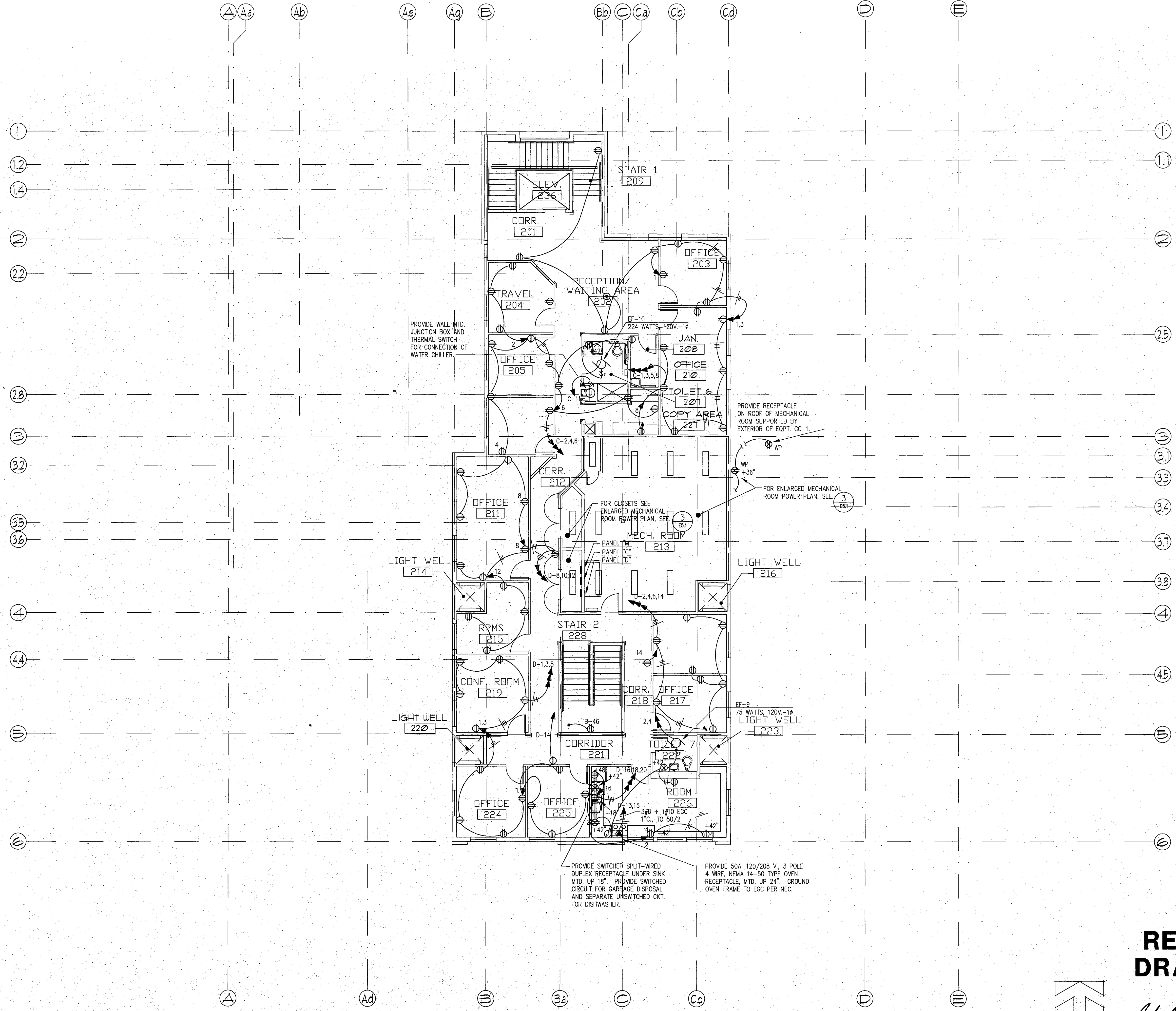
PROJECT NO. 915086/911125
DRAWN BY BDC/SKF
CHECKED BY JRP/RDP
DATE DECEMBER 9, 1992
REVISED

TITLE
**FIRST LEVEL
POWER PLAN**

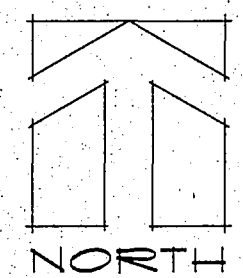
SHEET NO.

E3.1

F3.0.012



1 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



**RECORD
DRAWING**

Robert D. Posner
CITY ENGINEER, CITY OF FAIRBANKS
DATE 4/8/96

City of Fairbanks
FAIRBANKS HEALTH CLINIC
FAIRBANKS, ALASKA

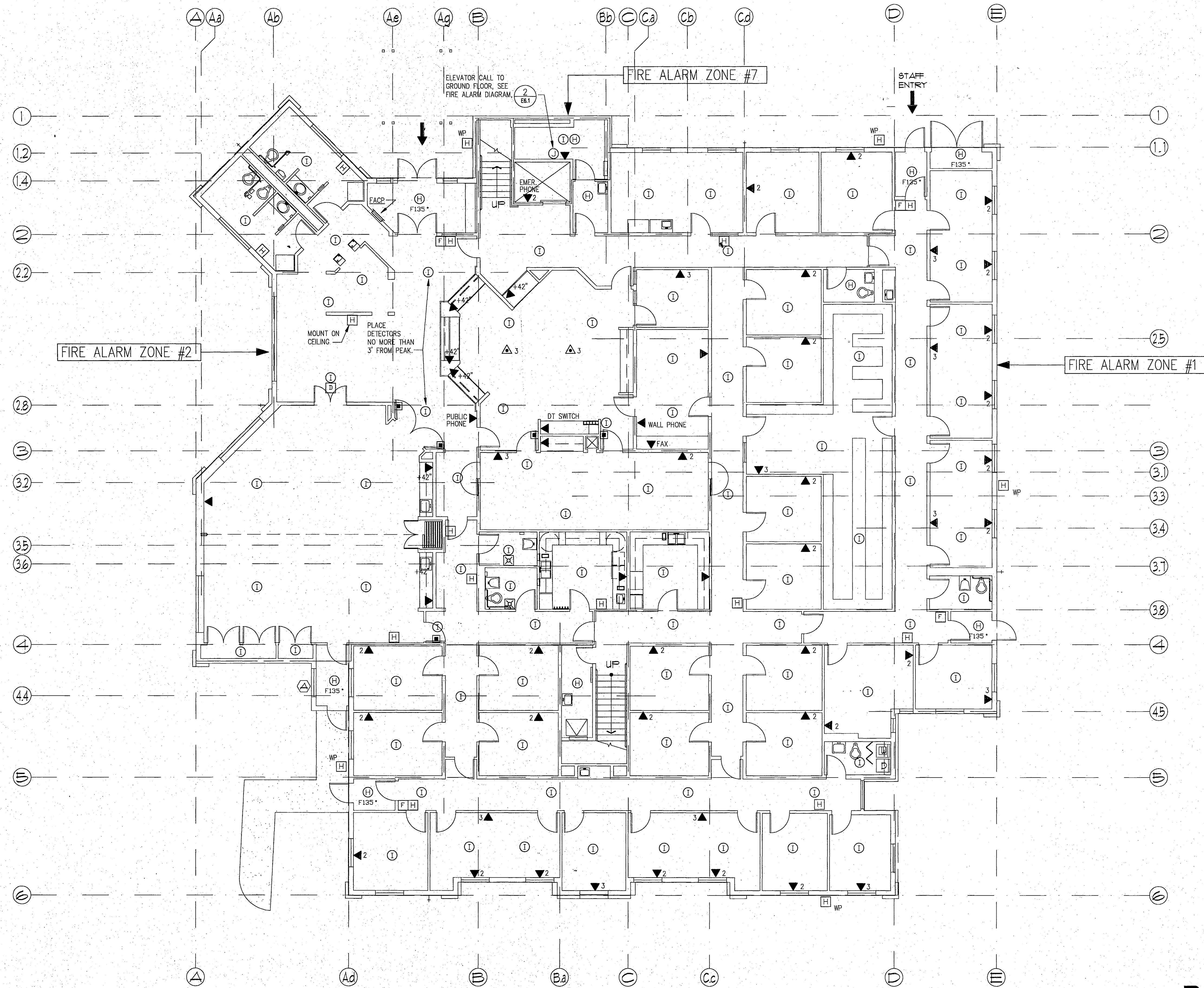
**LIVINGSTON
STONE**
Architecture Engineering
Interior Design Planning
3900 Arctic Blvd., Suite 301
Fairbanks, Alaska 99703-0790
(907) 562-2058



PROJECT NO. 915086/911125
DRAWN BY BDC/SKF
CHECKED BY JRP/RDP
DATE DECEMBER 9, 1992
REVISED

TITLE
**SECOND LEVEL
POWER PLAN**

SHEET NO.
E3.2



1 FIRST FLOOR PLAN - SIGNAL
SCALE: 1/8" = 1'-0"

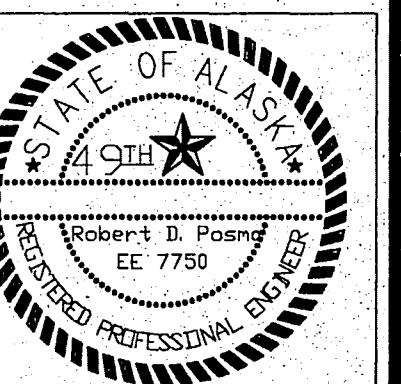


**RECORD
DRAWING**

Robert D. Pascoe
CITY ENGINEER, CITY OF FAIRBANKS
DATE: 9/18/96

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

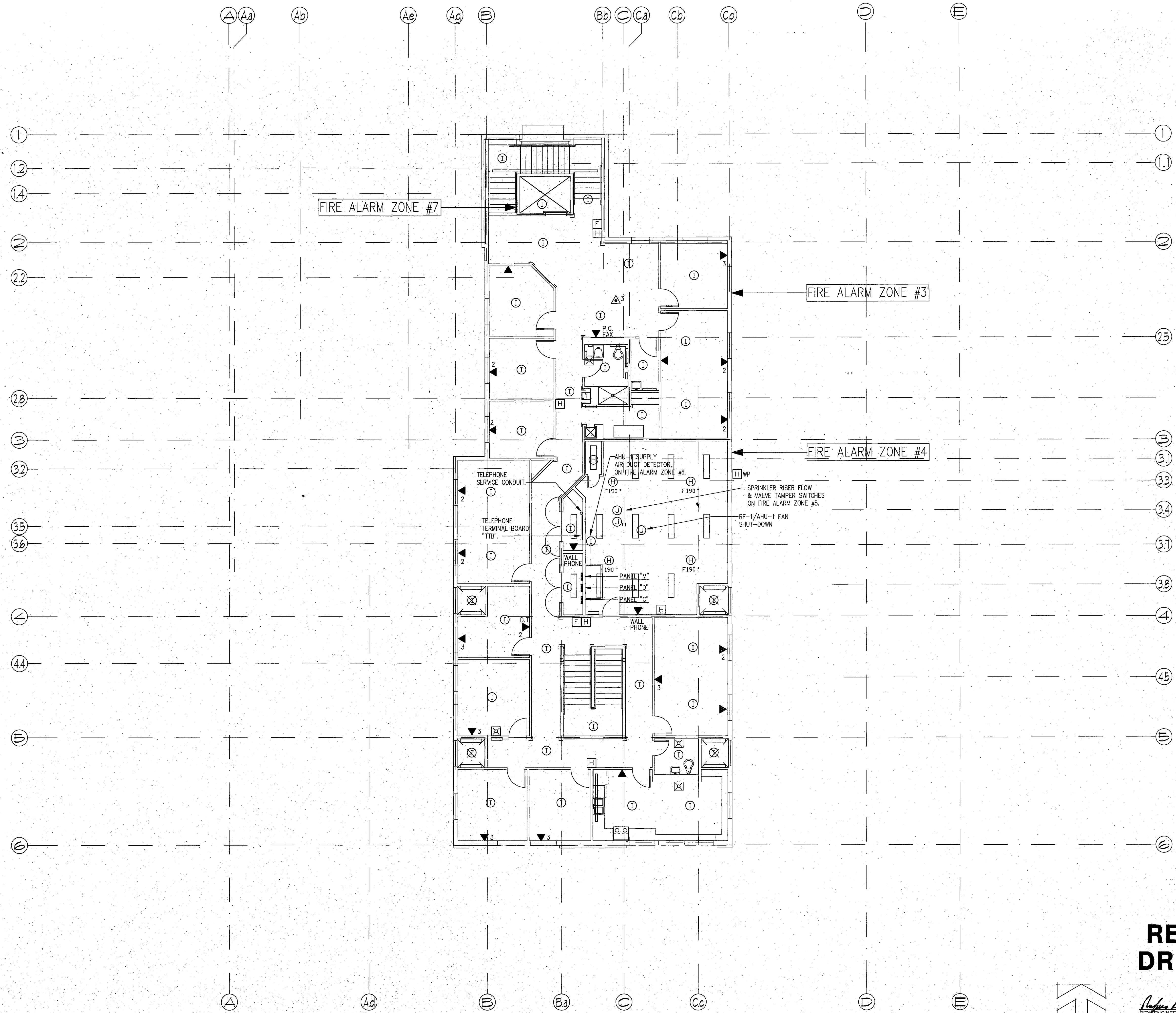
**LIVINGSTON
STONE**
Architecture Engineering
Interior Design Planning
3900 Arctic Blvd., Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2058



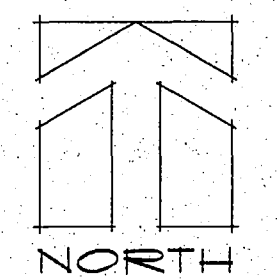
PROJECT NO. 915086/911125
DRAWN BY BDC/SKF
CHECKED BY RDP
DATE DECEMBER 9, 1992
REVISED

TITLE
**FIRST LEVEL
SIGNAL PLAN**

SHEET NO.
E4.1



1 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



**RECORD
DRAWING**

Robert D. Posner
CITY ENGINEER, CITY OF FAIRBANKS
DATE: 4/8/96

City of Fairbanks

FAIRBANKS HEALTH CLINIC

FAIRBANKS, ALASKA

**LIVINGSTON
STONE**
Architecture Engineering
Interior Design Planning

3900 Arctic Blvd., Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2658

PROJECT NO. 915086/911125

DRAWN BY SKP/BDC

CHECKED BY JRP/RDP

DATE DECEMBER 9, 1992

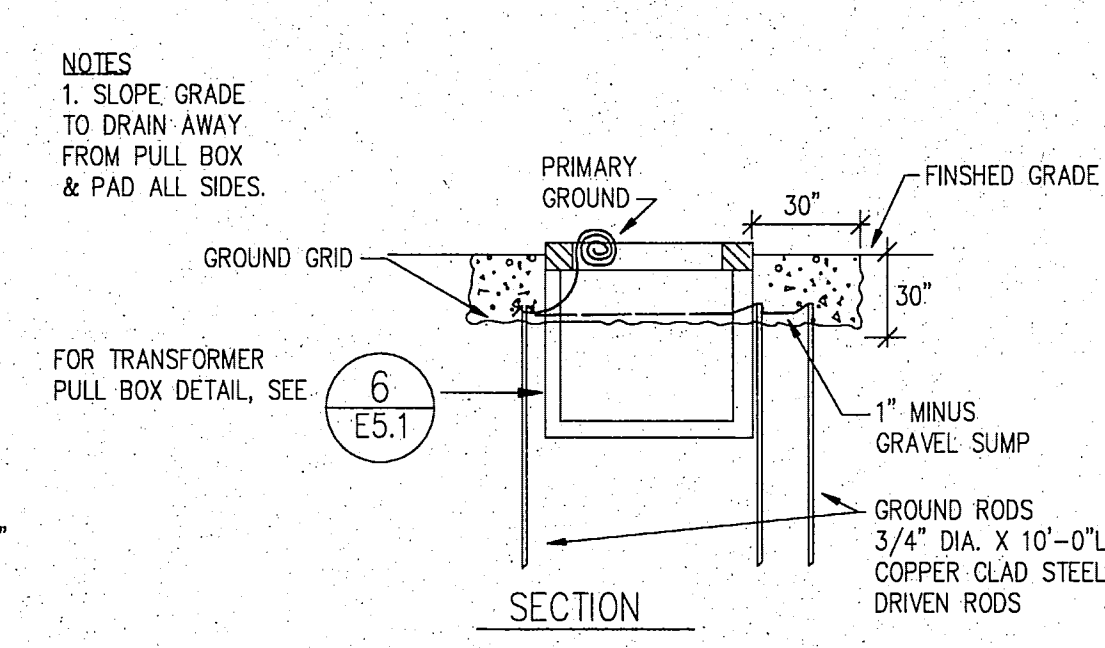
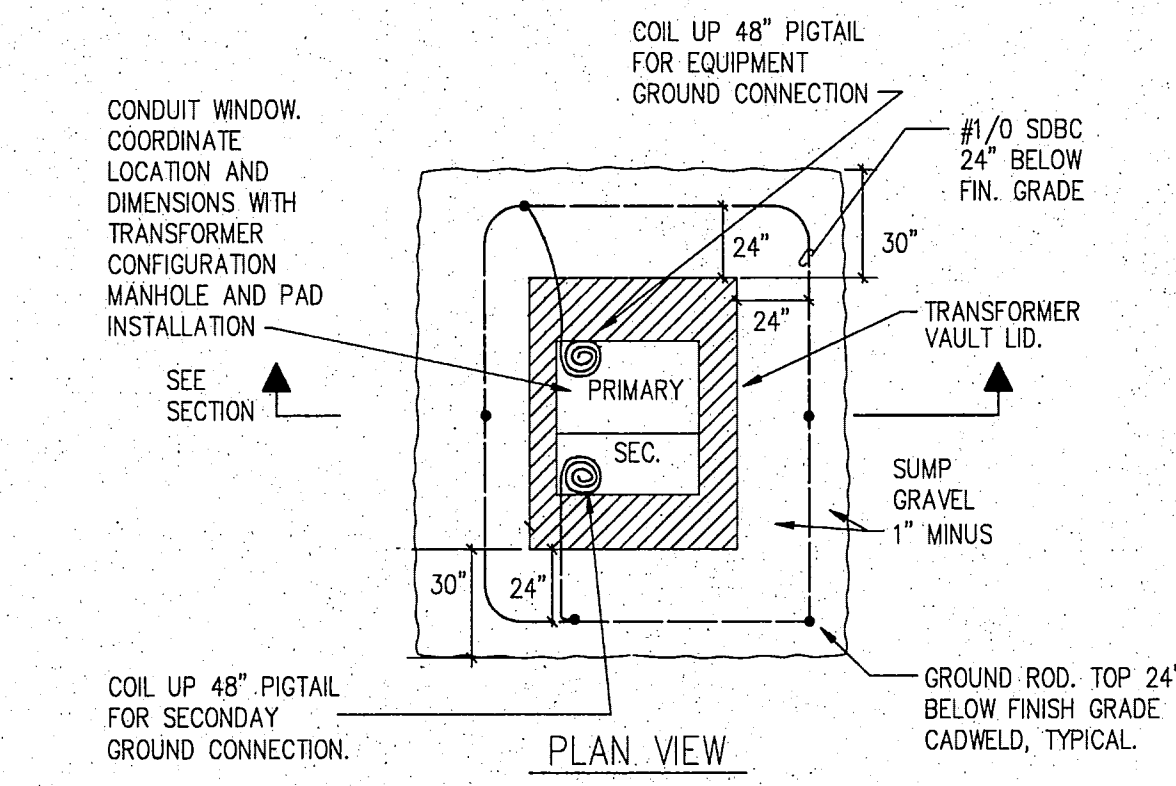
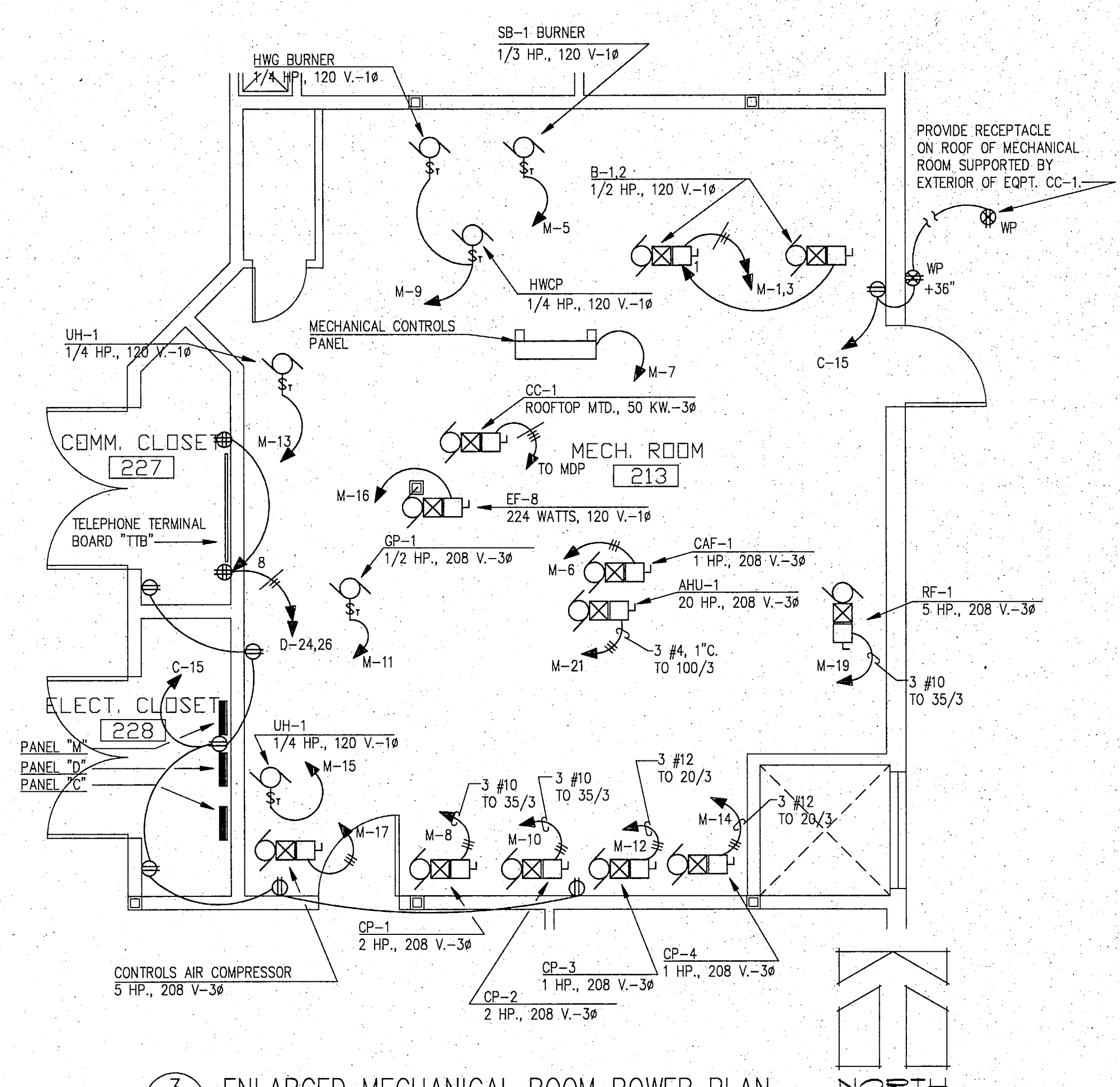
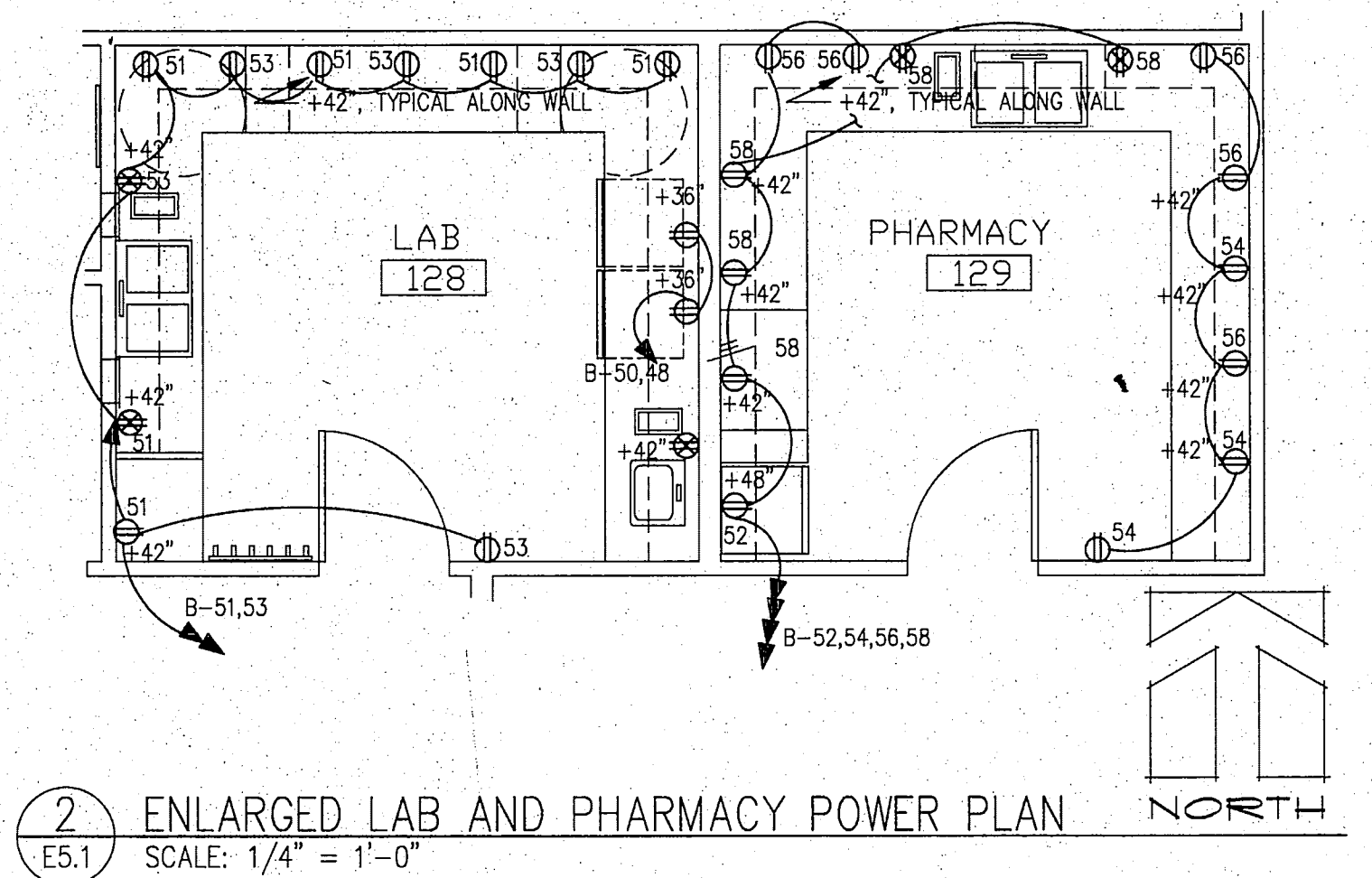
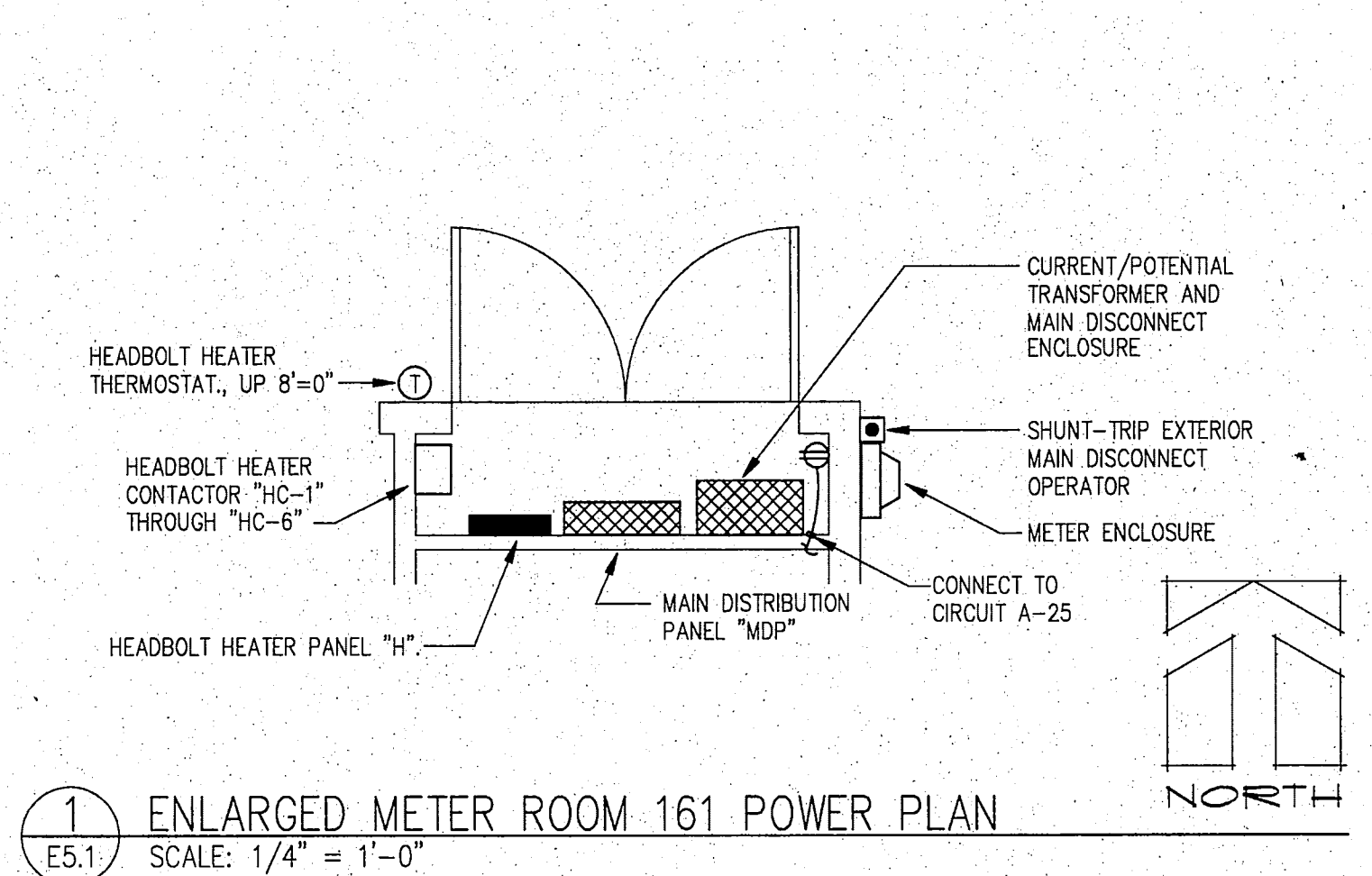
REVISED

TITLE

**SECOND LEVEL
SIGNAL PLAN**

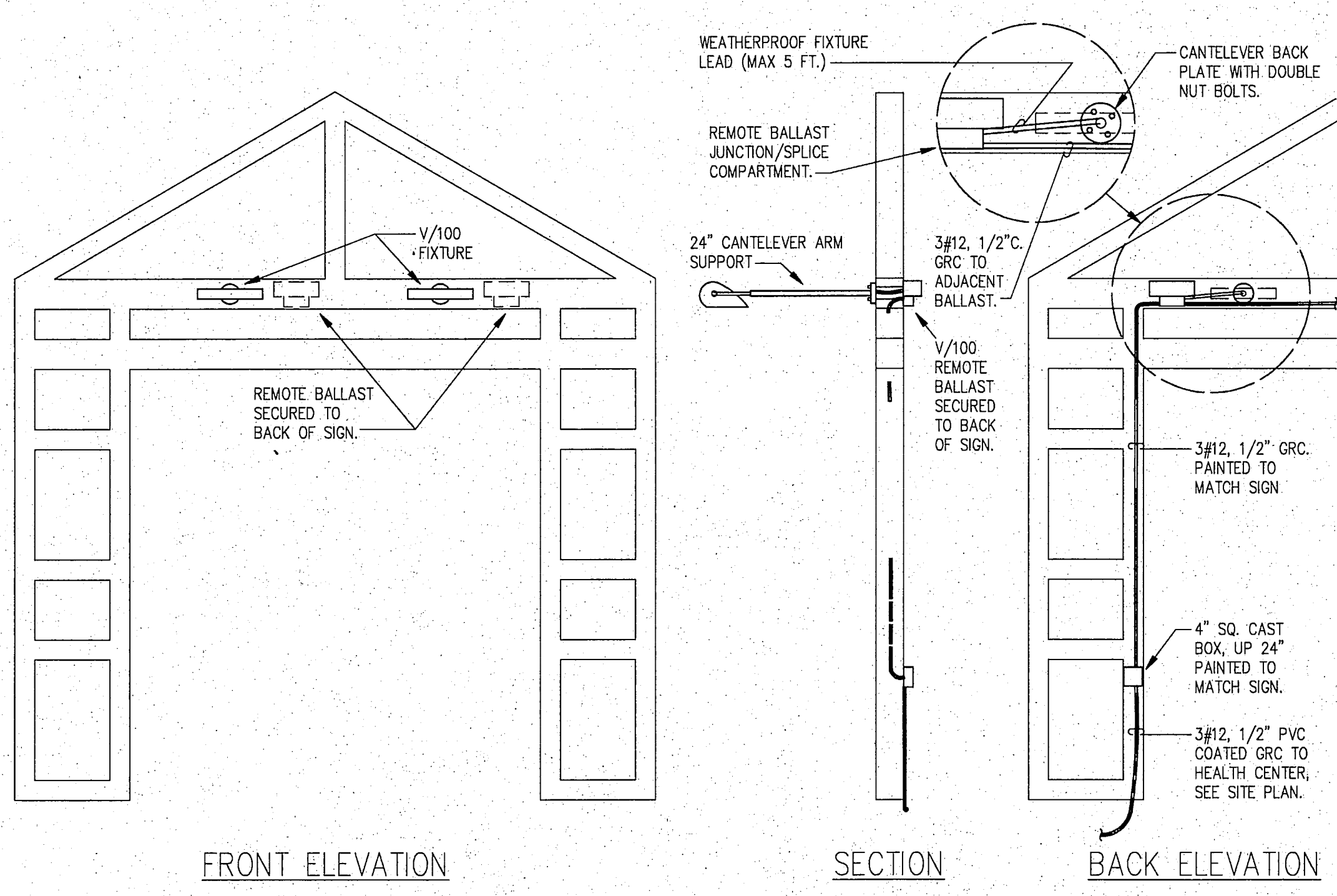
SHEET NO.

E4.2



4 TRANSFORMER GROUNDING
E5.2 SCALE: NTS

3 ENLARGED MECHANICAL ROOM POWER PLAN
E5.1 SCALE: 1/4" = 1'-0"

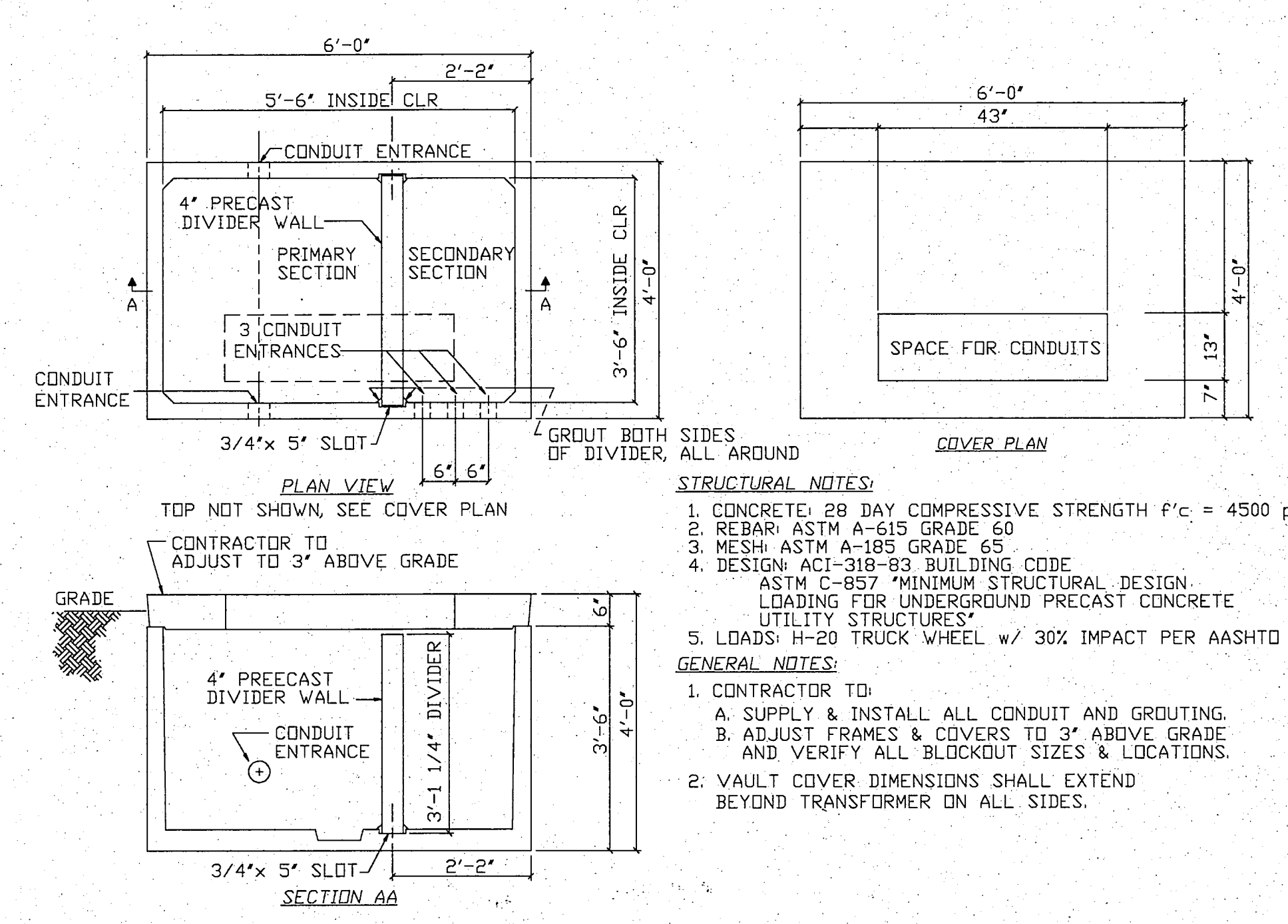


5 SIGN LIGHTING DETAIL
E5.2 SCALE: NTS

**RECORD
DRAWING**

Robert D. Smith
CITY ENGINEER, CITY OF FAIRBANKS

4/8/96
DATE

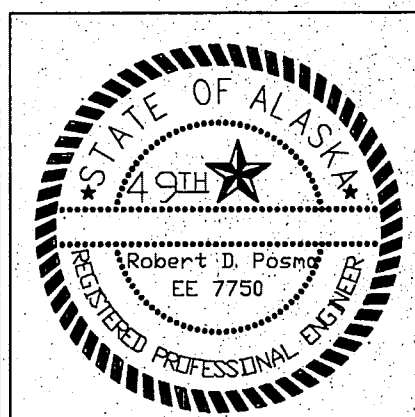


6 TRANSFORMER PULL BOX DETAIL
E5.2 SCALE: NTS

City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

**LIVINGSTON
STONE**
Architecture Engineering
Interior Design Planning

3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 562-2058

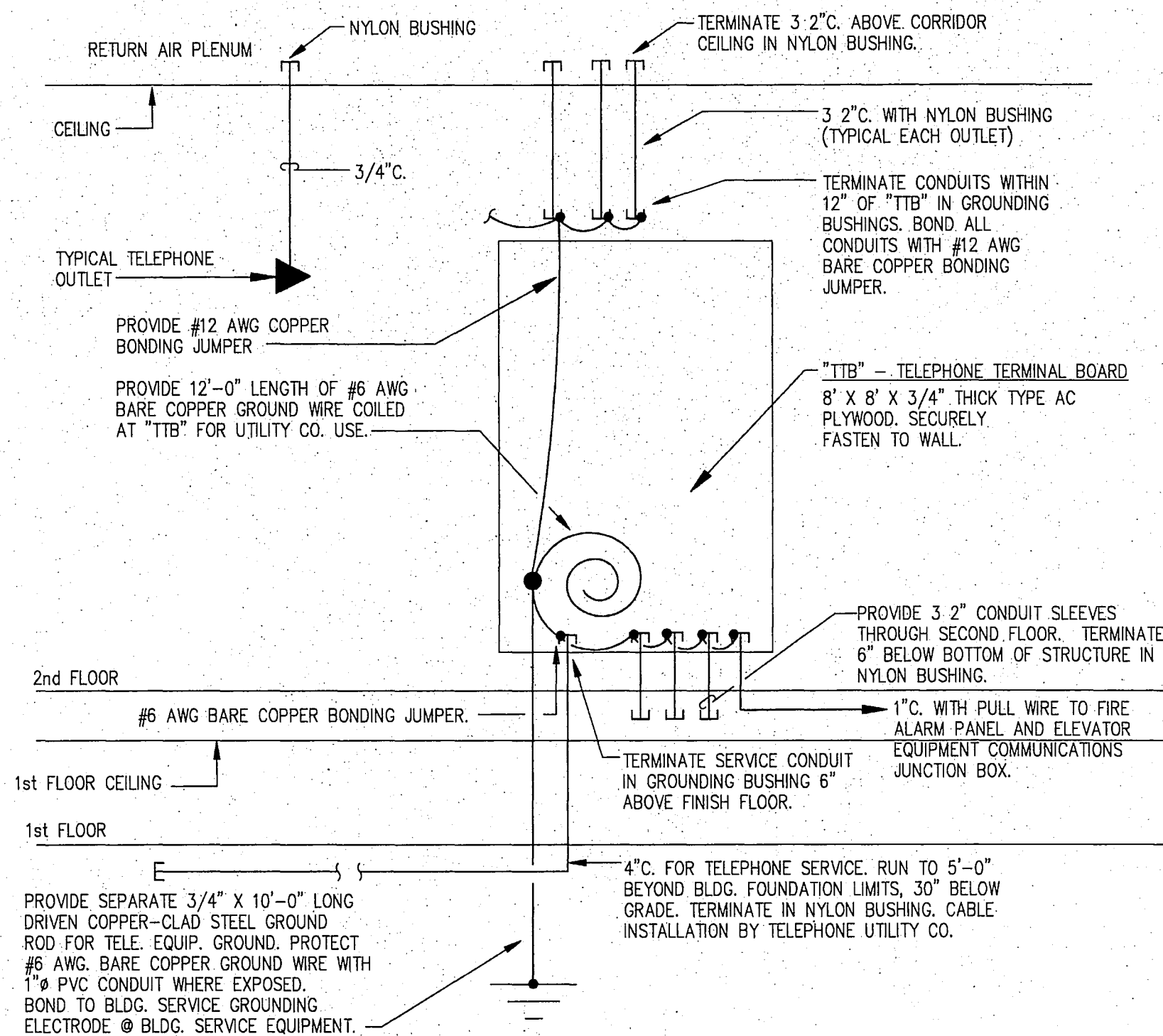


PROJECT NO. 915086/911125
DRAWN BY BDC/SKF
CHECKED BY JRP/RDP
DATE DECEMBER 9, 1992
REVISED

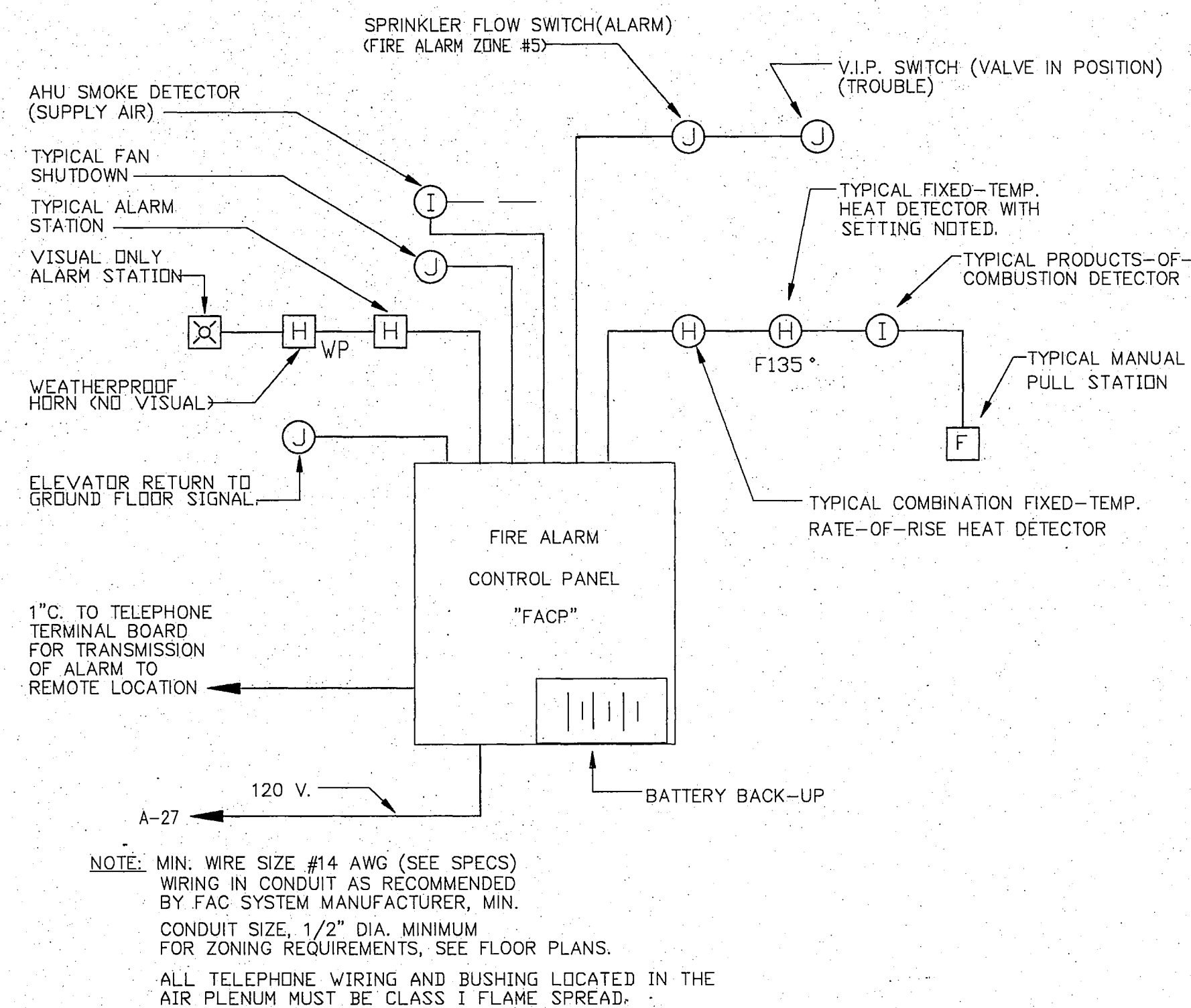
TITLE
**ELECTRICAL
LARGE SCALE
PLANS**

SHEET NO.

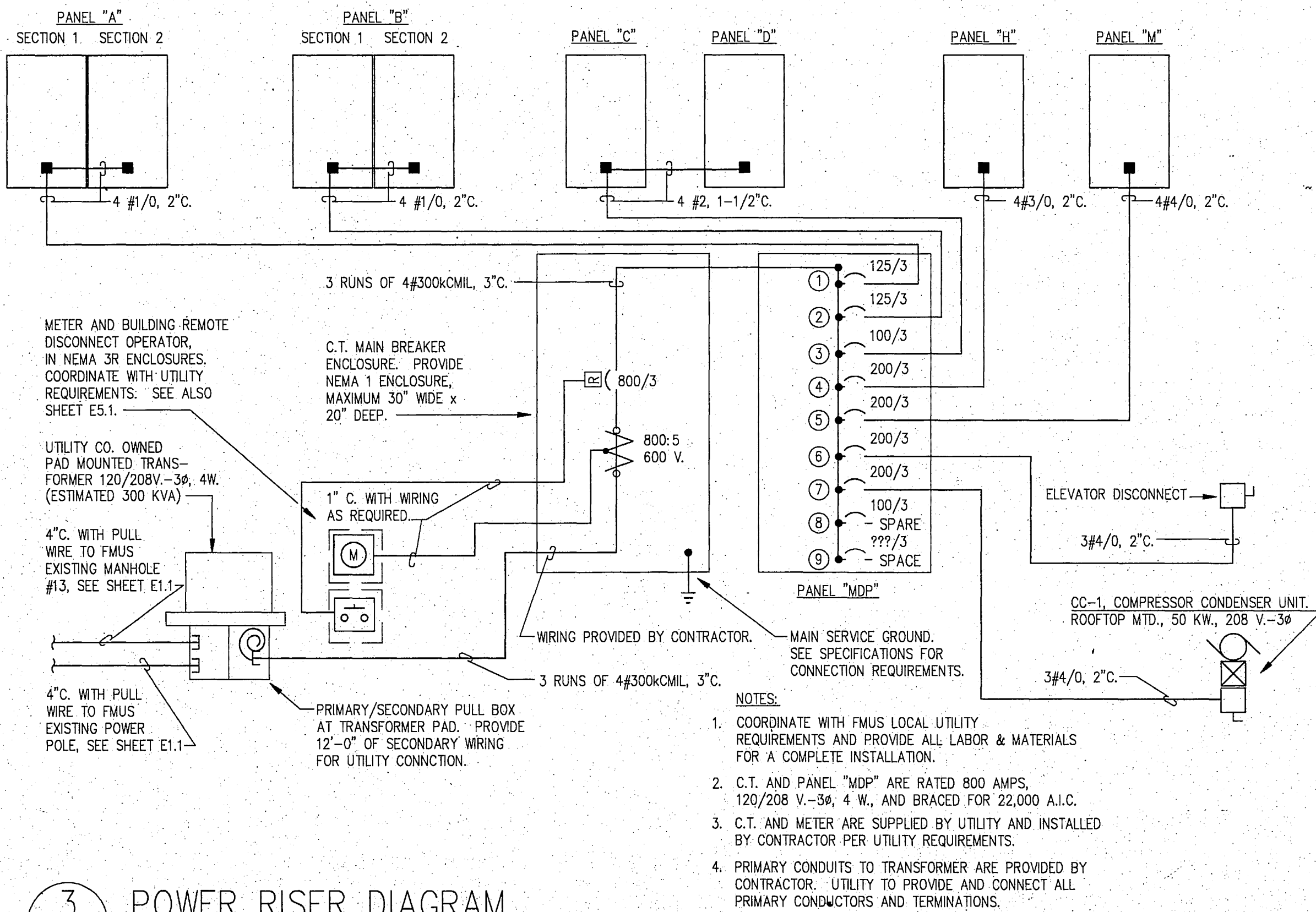
E5.1



1 TELEPHONE RISER DIAGRAM
E6.1 NO SCALE



2 FIRE ALARM RISER DIAGRAM
E6.1 NO SCALE



3 POWER RISER DIAGRAM
E6.1 SCALE: NONE

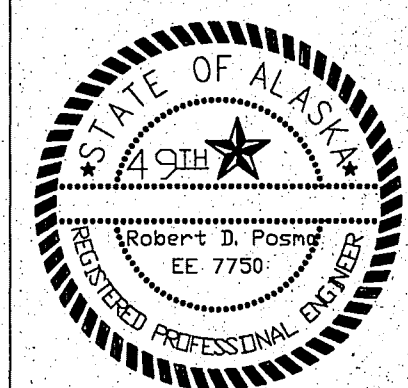
PANEL MDP SCHEDULE						
CKT. NO.	P	TRIP	LOAD SERVED	CKT. NO.	P	TRIP
1	3	125	PANEL A	2	3	125
3	3	100	PANEL C & D	4	3	200
5	3	200	PANEL M	6	3	200
7	3	200	CC-1	8	3	100
9	3	-	SPACE W/HDW			
MAINS 800 AMPS M. L. O.			TYPE 120/208V. -3PH, 4W.			
MOUNTING: SURFACE		SPECIAL REQUIREMENTS: BRACED FOR 22,000 A.I.C.		DEMAND LOAD: 218 KW		

RECORD
DRAWING

Andrus D. Burch
CITY ENGINEER, CITY OF FAIRBANKS
4-18-96
DATE

FHC_E6_1

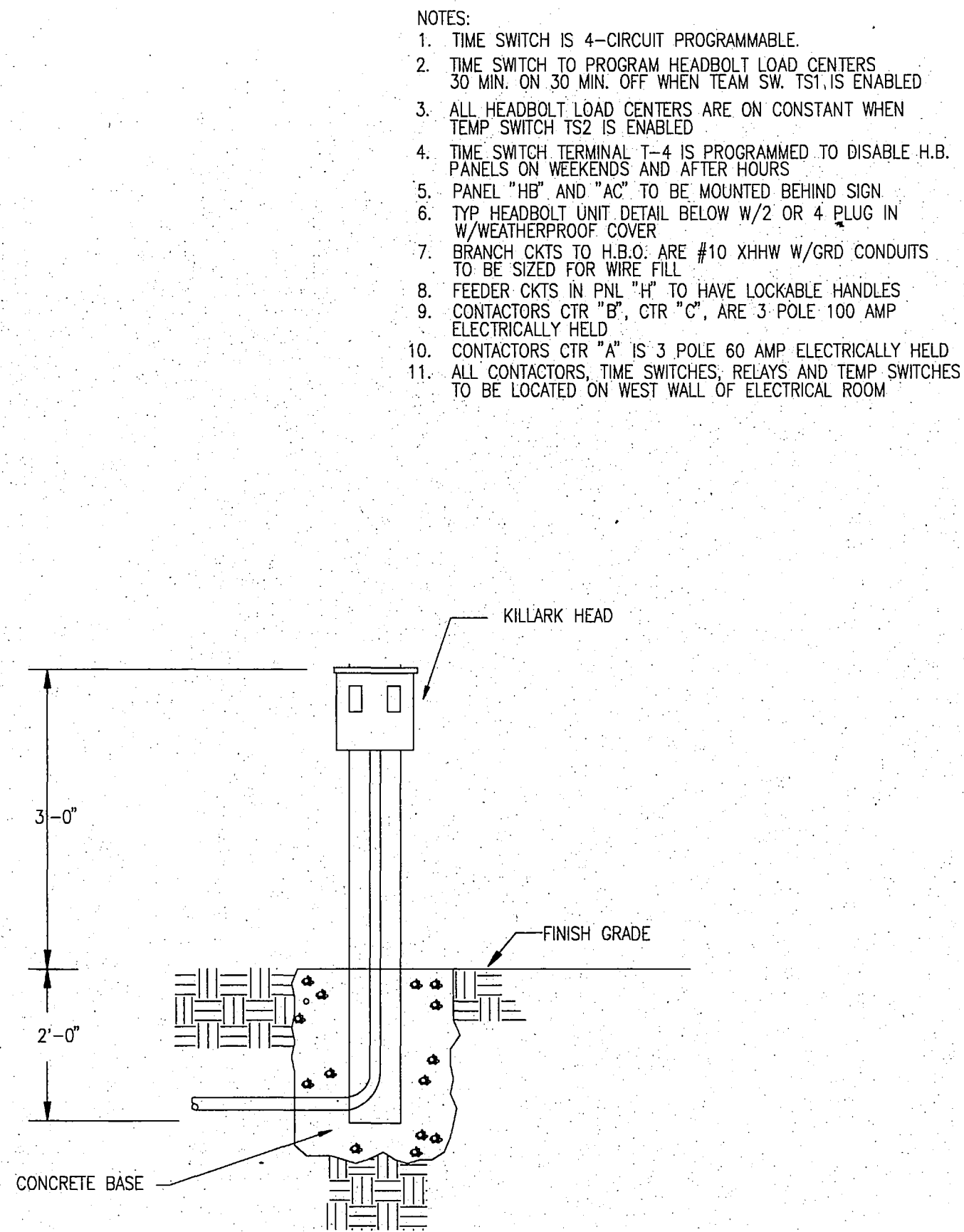
**LIVINGSTON
STONE**
Architects Engineering
Interior Design Planning
3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-6790
(907) 562-2058



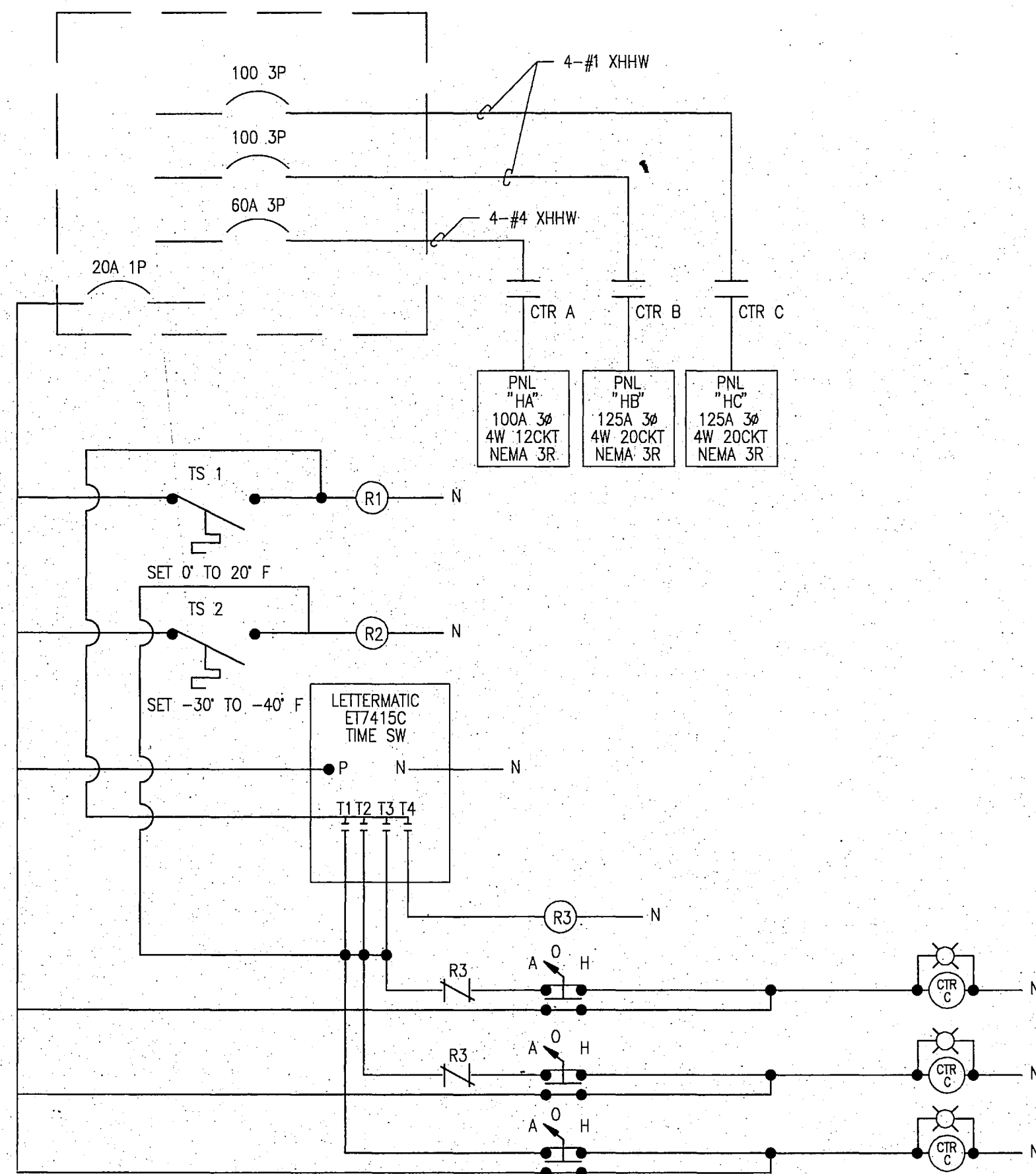
PROJECT NO. 915086/911125
DRAWN BY RDP/BDC/SKF
CHECKED BY JRP/RDP
DATE DECEMBER 9, 1992
REVISED

TITLE
POWER AND
SIGNAL RISER
DIAGRAMS
SHEET NO.

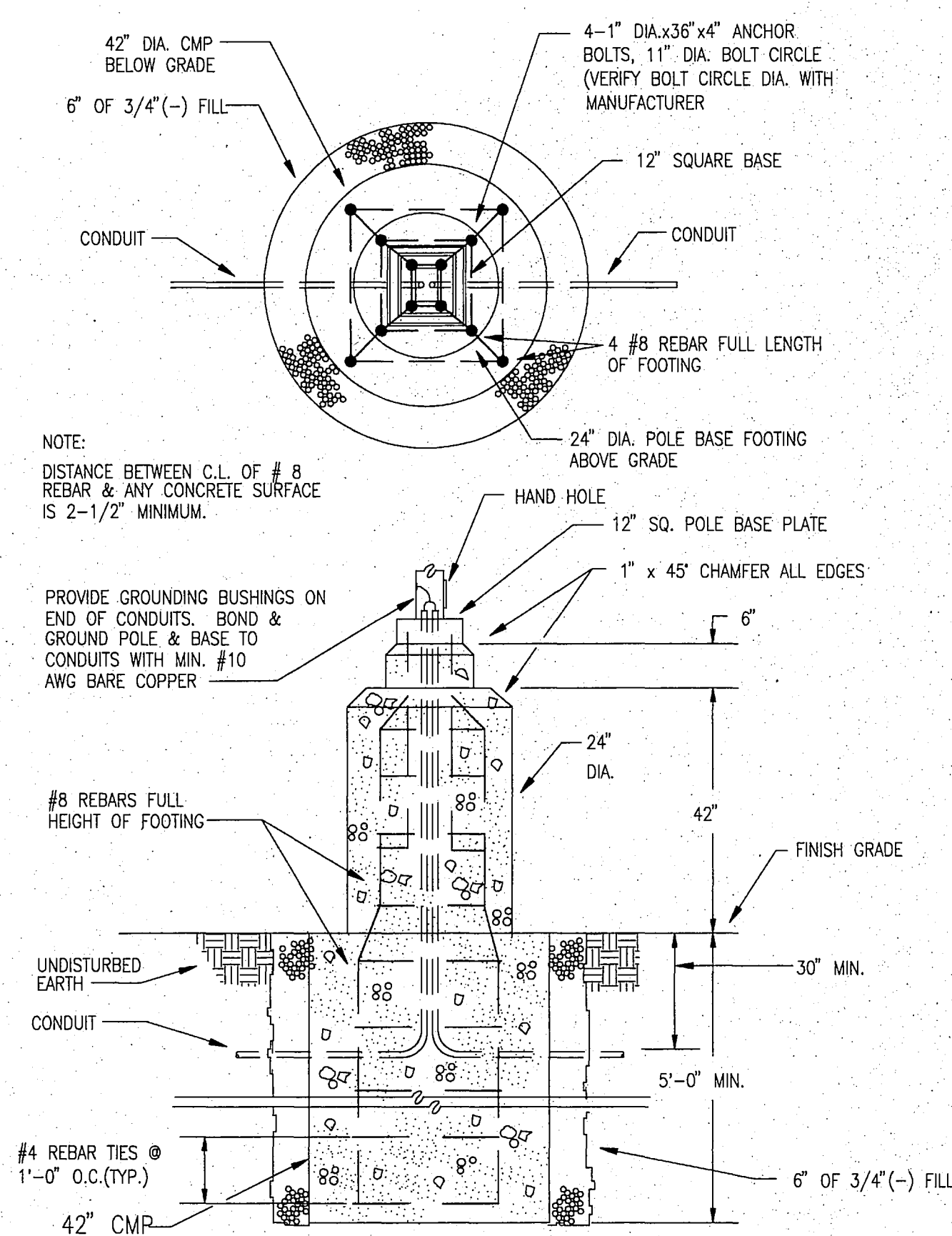
E6.1



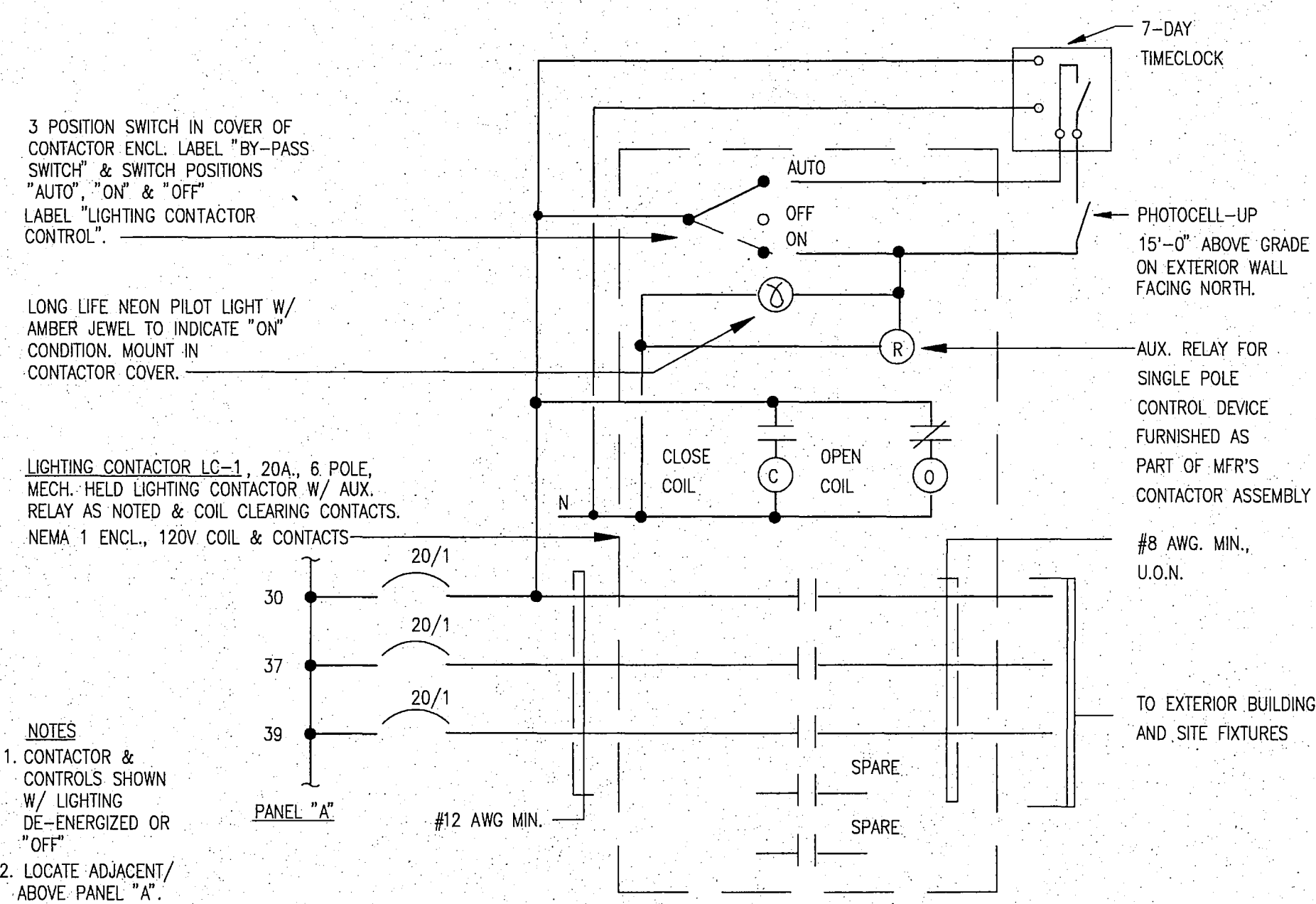
1 HEADBOLT HEATER DETAIL
E7.1 NO SCALE



2 HEADBOLT RISER CONTROL DIAGRAM
E7.1 NO SCALE



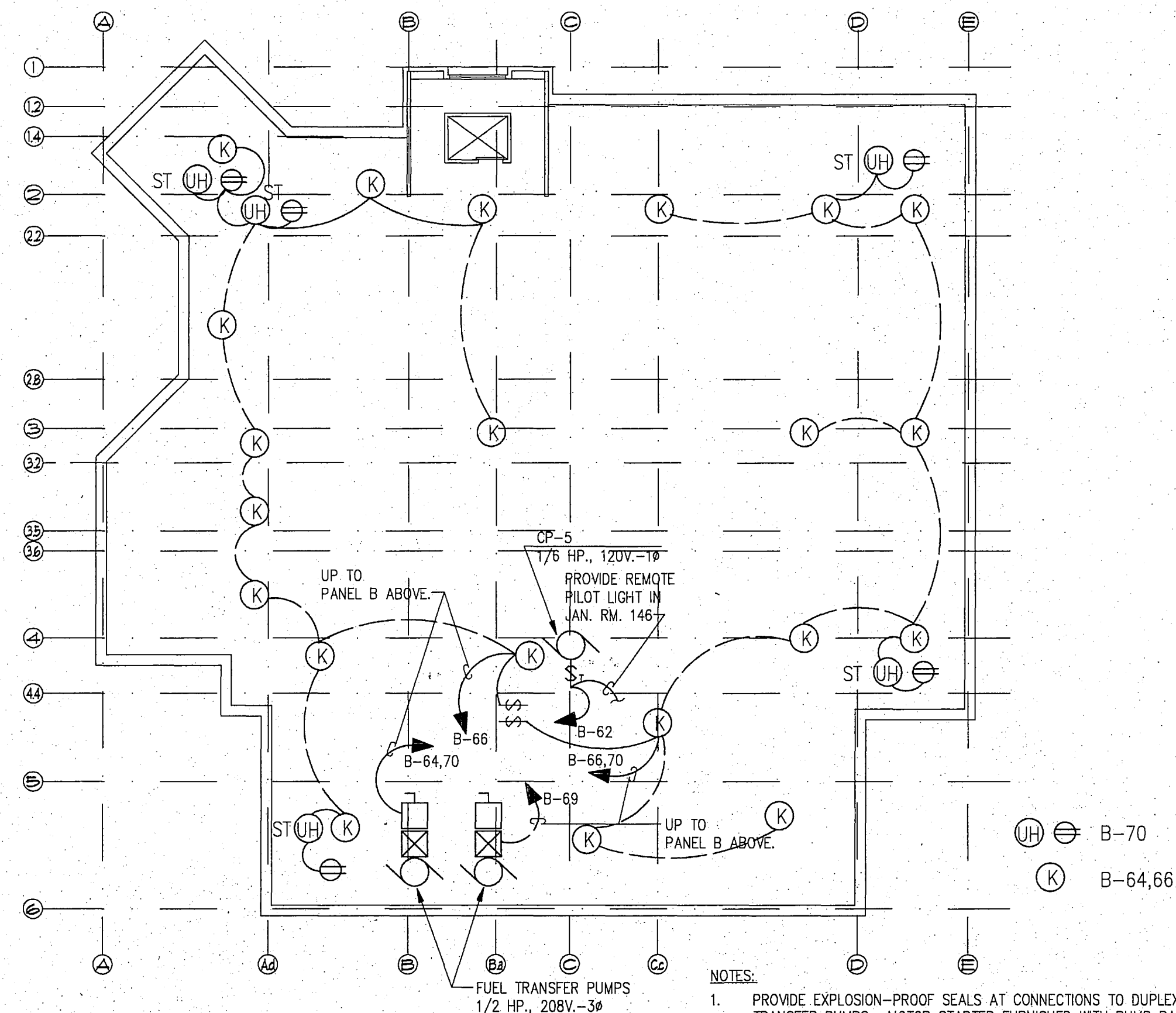
3 TYPICAL POLE BASE DETAIL
E7.1 NO SCALE



4 LIGHTING CONTROL DIAGRAM
E7.1 NO SCALE

**RECORD
DRAWING**

Robert D. Pascoe
CITY ENGINEER, CITY OF FAIRBANKS
4/8/96
DATE



5 CRAWLSPACE ELECTRICAL PLAN
E7.1 1/16"=1'-0"

City of Fairbanks

FAIRBANKS HEALTH CENTER

Fairbanks, Alaska

**LIVINGSTON
STONE**
Architecture Engineering
Interior Design
Planning

3900 Arctic Blvd. Suite 301
Fairbanks, Alaska 99709-0700
(907) 582-2058

STATE OF ALASKA
Robert D. Pascoe
REGISTERED PROFESSIONAL ENGINEER
CE 775

PROJECT NO. 915086/911125
DRAWN BY RDP/BDC/SKF
CHECKED BY JRP
DATE DECEMBER 9, 1992
REVISED

TITLE
DETAILS

SHEET NO.
E7.1

PANEL				'A' SCHEDULE (SECTION 1)			
CKT. NO.	P	TRIP	LOAD SERVED	CKT. NO.	P	TRIP	LOAD SERVED
1	1	20	STOR/EXAM RM	2	1	20	COPY MACHINE
3	1	20	CHILD HEALTH SCR.	4	1	20	MAIL/COPY RM.
5	1	20	ELEV. EQUIP. RM.	6	1	20	OFFICE/REC. AREA
7	1	20	OFFICE 152	8	1	20	CONF./WAITING
9	1	20	OFFICE 151	10	1	20	WAITING AREA
11	1	20	OFFICE 143	12	1	20	CHILDPLAY/RESTR
13	1	20	EXAM RM 148	14	1	20	RECEPT AREA
15	1	20	EXAM RM 147	16	1	20	RECEPT/WAIT
17	1	20	CORR. 140	18	1	20	CHILDPLAY
19	1	20	RECORDS/MAIL	20	1	20	RECEPT AREA
21	1	20	CORR 135/144	22	1	20	LOBBY
23	1	20	CHILD SCR./EXAM	24	1	20	OFFICE 143/151
25	1	20	CUH-1/UH-1	26	1	20	EXAM/STORAGE
27	1	20	FIRE ALARM	28	1	20	CUH-1/UH-1
29	1	20	M. ENTRY	30	1	20	EXTERIOR BLDG LTG
31	1	20	SPARE	32	1	20	SPARE
33	1	20	SPARE	34	1	20	SPARE
35	1	20	SPARE	36	1	20	SPARE
37	1	20	SITE LIGHTING	38	1	-	SPACE W/HDWR
39	1	20	SITE LIGHTING	40	1	-	SPACE W/HDWR
41	1	20	SPARE	42	1	-	SPACE W/HDWR
MAINS 225 AMP. M. L. O.				TYPE 120/208V. -3PH, 4W.			
MOUNTING SURFACE		SPECIAL REQUIREMENTS: PROVIDE SUBFEED LUGS FOR PANEL A SECTION 2					

PANEL				'B' SCHEDULE (SECTION 1)			
CKT. NO.	P	TRIP	LOAD SERVED	CKT. NO.	P	TRIP	LOAD SERVED
1	1	20	EXAM ROOM 153	2	1	20	TEAM LDR 156
3	1	20	EXAM ROOM 154	4	1	20	OFFICE 157
5	1	20	EXAM RM 158	6	1	20	EXAM RM 159/EF-5
7	1	20	EXAM RM 124	8	1	20	RECORDS AREA
9	1	20	CORR 113	10	1	20	CONF./WAITING
11	1	20	EXAM RM 122	12	1	20	RECORDS/TOILET
13	1	20	EXAM RM 111	14	1	20	MGR. OFFICE
15	1	20	EXAM RM 112	16	1	20	OFFICE 116
17	1	20	EXAM RM 120	18	1	20	OFFICE 115
19	1	20	CORR. 126/155	20	1	20	TEAM LDR. 119
21	1	20	OFFICE	22	1	20	OFFICE 118
23	1	20	EXAM RMS	24	1	20	OFFICE 117
25	1	20	CORR. 126/EXAM	26	1	20	LAB/PHAR
27	1	20	CORR. 110	28	1	20	CONF ROOM
29	1	20	CORR. 113	30	1	20	111, 123, 112, 120
31	1	20	OFFICES	32	1	20	WASHER
33	1	20	OFFICES 117	34	2	30	DRYER
35	1	20	COMM. REFRIG. 149	36	1	20	SPARE
37	1	20	SPARE	38	1	20	SPARE
39	1	20	SPARE	40	1	-	SPACE W/HDWR
41	1	-	SPACE W/HDWR				
MAINS			225 AMP. M. L. O.	TYPE 120/208V. -3PH, 4W.			
MOUNTING SURFACE		SPECIAL REQUIREMENTS: PROVIDE SUBFEED LUGS FOR PANEL B SECTION 2					

PANEL 'A' SCHEDULE (SECTION 2)							
CKT. NO.	P	TRIP	LOAD SERVED	CKT. NO.	P	TRIP	LOAD SERVED
43	1	20	COFFEE/REFRIG	44	1	20	VEST. 145 RECEPT
45	1	20	CORR. 150	46	1	20	REC. 132 COUNTER
47	1	20	EF-3	48	1	20	REC. 132 FLOOR
49	1	20	EF-2	50	1	20	WATER CHILLER
51	1	20	EF-1	52	1	20	SPARE
53	1	20	SPARE	54	1	20	SPARE
55	1	20	SPARE	56	1	20	SPARE
57	1	20	SPARE	58	1	20	SPARE
59	1	20	SPARE	60	1	-	SPACE W/HDWR
61	1	-	SPACE W/HDWR	62	1	-	SPACE W/HDWR
63	1	-	SPACE W/HDWR	64	1	-	SPACE W/HDWR
65	1	-	SPACE W/HDWR	66	1	-	SPACE W/HDWR
67	1	-	SPACE W/HDWR	68	1	-	SPACE W/HDWR
69	1	-	SPACE W/HDWR	70	1	-	SPACE W/HDWR
71	1	-	SPACE W/HDWR	72	1	-	SPACE W/HDWR
73	1	-	SPACE W/HDWR	74	1	-	SPACE W/HDWR
75	1	-	SPACE W/HDWR	76	1	-	SPACE W/HDWR
77	1	-	SPACE W/HDWR	78	1	-	SPACE W/HDWR
79	1	-	SPACE W/HDWR	80	1	-	SPACE W/HDWR
81	1	-	SPACE W/HDWR	82	1	-	SPACE W/HDWR
83	1	-	SPACE W/HDWR	84	1	-	SPACE W/HDWR
MAINS 225 AMP M. L. O.				TYPE 120/208V. -3PH, 4W.			
MOUNTING SURFACE		SPECIAL REQUIREMENTS: FED FROM PANEL A SECTION 1					

PANEL				'B' SCHEDULE (SECTION 2)			
CKT. NO.	P	TRIP	LOAD SERVED	CKT. NO.	P	TRIP	LOAD SERVED
43	1	20	VEST. 164 RECEPTS	42	1	20	CUH-1, 164/146
45	1	20	VEST. 146 RECEPTS	44	1	20	REFRIG. CORR 113
47	1	20	VEST 163 RECEPTS	46	1	20	CORR RECEPTS
49	1	20	CORR 113	48	1	20	LAB FREEZER
51	1	20	LAB RECEPTS	50	1	20	LAB REFRIG.
53	1	20	LAB RECEPTS	52	1	20	PHARM. REFRIG
55	1	20	SPARE	54	1	20	PHARM. RECEPTS
57	1	20	EF-6/EF-7	56	1	20	PHARM. RECEPTS
59	1	20	CUH-1/EF-4	58	1	20	PHARM. RECEPTS
61	1	20	CORR 110	60	3	20	EF-11
63	1	20	EXAM 123	62	1	20	CP-5
65	1	20	JAN 165	64	1	20	CRAWL SPACE LIGHTS
67	3	20	CRAWL SP. FUEL PMP.	66	1	20	CRAWL SPACE LIGHTS
69	3	20	CRAWL SP. FUEL PMP.	68	1	20	SPARE
71	1	20	HEAT TAPE	70	1	20	SPACE UH & RECEPT
73	1	20	SPACE W/HDWR	72	1	20	SPARE
75	1	20	SPACE W/HDWR	74	1	20	SPARE
				76	1	-	SPACE W/HDWR
				78	1	-	SPACE W/HDWR
MAINS 225 AMP. M. L. O.				TYPE 120/208V. -3PH, 4W.			
MOUNTING SURFACE		SPECIAL REQUIREMENTS: FED FROM PANEL B SECTION 1					

PANEL 'C' SCHEDULE							
CKT. NO.	P	TRIP	LOAD SERVED	CKT. NO.	P	TRIP	LOAD SERVED
1	1	20	RECEP/WAIT	2	1	20	ACCT. TRAVEL
3	1	20	OFFICE 203	4	1	20	OFFICE 205
5	1	20	OFFICE 210	6	1	20	JAN./TOILET
7	1	20	TRAVEL/OFFICE	8	1	20	COPY MACHINE
9	1	20	CORR. 202	10	1	20	217, 227
11	1	20	WATER CHILLER	12	1	20	203, 210
13	1	20	SPARE	14	1	20	MECH RM. 213
15	1	20	SPARE	16	1	20	SPARE
17	1	20	SPARE	18	1	20	SPARE
19	1	20	SPARE	20	1	20	SPARE
21	1		SPACE W/HDWARE	22	1		SPACE W/HDWR
23	1		SPACE W/HDWARE	24	1		SPACE W/HDWR
25	1		SPACE W/HDWARE	26	1		SPACE W/HDWR
27	1		SPACE W/HDWARE	28	1		SPACE W/HDWR
29	1		SPACE W/HDWARE	30	1		SPACE W/HDWR
31	1		SPACE W/HDWARE	32	1		SPACE W/HDWR
33	1		SPACE W/HDWARE	34	1		SPACE W/HDWR
35	1		SPACE W/HDWARE	36	1		SPACE W/HDWR
37	1		SPACE W/HDWARE	38	1		SPACE W/HDWR
39	1		SPACE W/HDWARE	40	1		SPACE W/HDWR
41	1		SPACE W/HDWARE	42	1		SPACE W/HDWR
MAINS 225 AMP M. L. O.				TYPE 120/208V. -3PH, 4W.			
MOUNTING SURFACE		SPECIAL REQUIREMENTS: PROVIDE SUB-FEED LUGS FOR PANEL D					

PANEL 'D' SCHEDULE							
CKT. NO.	P	TRIP	LOAD SERVED	CKT. NO.	P	TRIP	LOAD SERVED
1	1	20	ADMIN. ASST.	2	1	20	RESOURCE 226
3	1	20	REG. MGR. 224	4	1	20	RESOURCE RM 226
5	1	20	ROOM 219	6	1	20	OFFICE 217
7	1	20	RMS 224, 225, 226	8	1	20	OFFICE 211
9	1	20	RMS 215, 219	10	1	20	OFFICE 211
11	1	20	CORR 221, 218	12	1	20	ROOM 215
13	2	50	RANGE/OVEN	14	1	20	CORR 221/218
15	1	20	RMS 213, 227, 228	16	1	20	REFRIGERATOR
17	1	20	RM 213 & ROOF	18	1	20	GARBAGE DISPOSAL
19	1	20	SPARE	20	1	20	DISHWASHER
21	1	20	SPARE	22	1	20	SPARE
23	1	20	SPARE	24	1	20	SPARE
25	1	20	SPARE	26	1	20	SPARE
27	1		SPACE W/HDWR	28	1		SPACE W/HDWR
29	1		SPACE W/HDWR	30	1		SPACE W/HDWR
31	1		SPACE W/HDWR	32	1		SPACE W/HDWR
33	1		SPACE W/HDWR	34	1		SPACE W/HDWR
35	1		SPACE W/HDWR	36	1		SPACE W/HDWR
37	1		SPACE W/HDWR	38	1		SPACE W/HDWR
39	1		SPACE W/HDWR	40	1		SPACE W/HDWR
				42	1		SPACE W/HDWR
MAINS 225 AMP M. L. O.			TYPE 120/208V. -3PH, 4W.				
MOUNTING SURFACE		SPECIAL REQUIREMENTS: SUBFED FROM PANEL C					

PANEL 'H' SCHEDULE							
CKT. NO.	P.	TRIP	LOAD SERVED	CKT. NO.	P.	TRIP	LOAD SERVED
1	3	60	HEADBOLT HEATER	2	3	60	HEADBOLT HEATER
3	3	60	HEADBOLT HEATER	4	3	60	HEADBOLT HEATER
5	3	60	HEADBOLT HEATER	6	3	60	HEADBOLT HEATER
7	3		SPACE W/HDWARE	8	3	60	SPARE
9	3		SPACE W/HDWARE	10	3		SPACE W/HDWARE
11	3		SPACE W/HDWARE	12	3		SPACE W/HDWARE
13	3		SPACE W/HDWARE	14	3		SPACE W/HDWARE
MAINS 225 AMP M. L. O.				TYPE 120/208V. -3PH, 4W.			
MOUNTING SURFACE		SPECIAL REQUIREMENTS: BRACED FOR 14,000 AIC					

PANEL 'M' SCHEDULE							
CKT. NO.	P	TRIP	LOAD SERVED	CKT. NO.	P	TRIP	LOAD SERVED
1	1	20	B-1	2	1	20	SPARE
3	1	20	B-2	4	1	20	SPARE
5	1	20	SB-1	6	3	20	CAF-1
7	1	20	MECH CNTRL PANEL	8	3	35	CP-1
9	1	20	HWG-1 & HWCP-1	10	3	35	CP-2
11	3	20	GP-1	12	3	20	CP-3
13	1	20	UH-1	14	3	20	CP-4
15	1	20	UH-1	16	1	20	EF-8
17	3	30	CNTRL CMPSSR	18	1	20	SPARE
19	3	35	RF-1	20	1	20	SPARE
21	3	100	AHU-1	22	1	20	SPARE
23	1	20	SPARE				
25	1	20	SPARE				
MAINS 225 AMP M. L. O.				TYPE 120/208V. -3PH, 4W.			
MOUNTING SURFACE		SPECIAL REQUIREMENTS:					

RECORD
DRAWING

Rudolph B. Bines
CITY ENGINEER, CITY OF FAIRBANKS

DATE 4/18/96

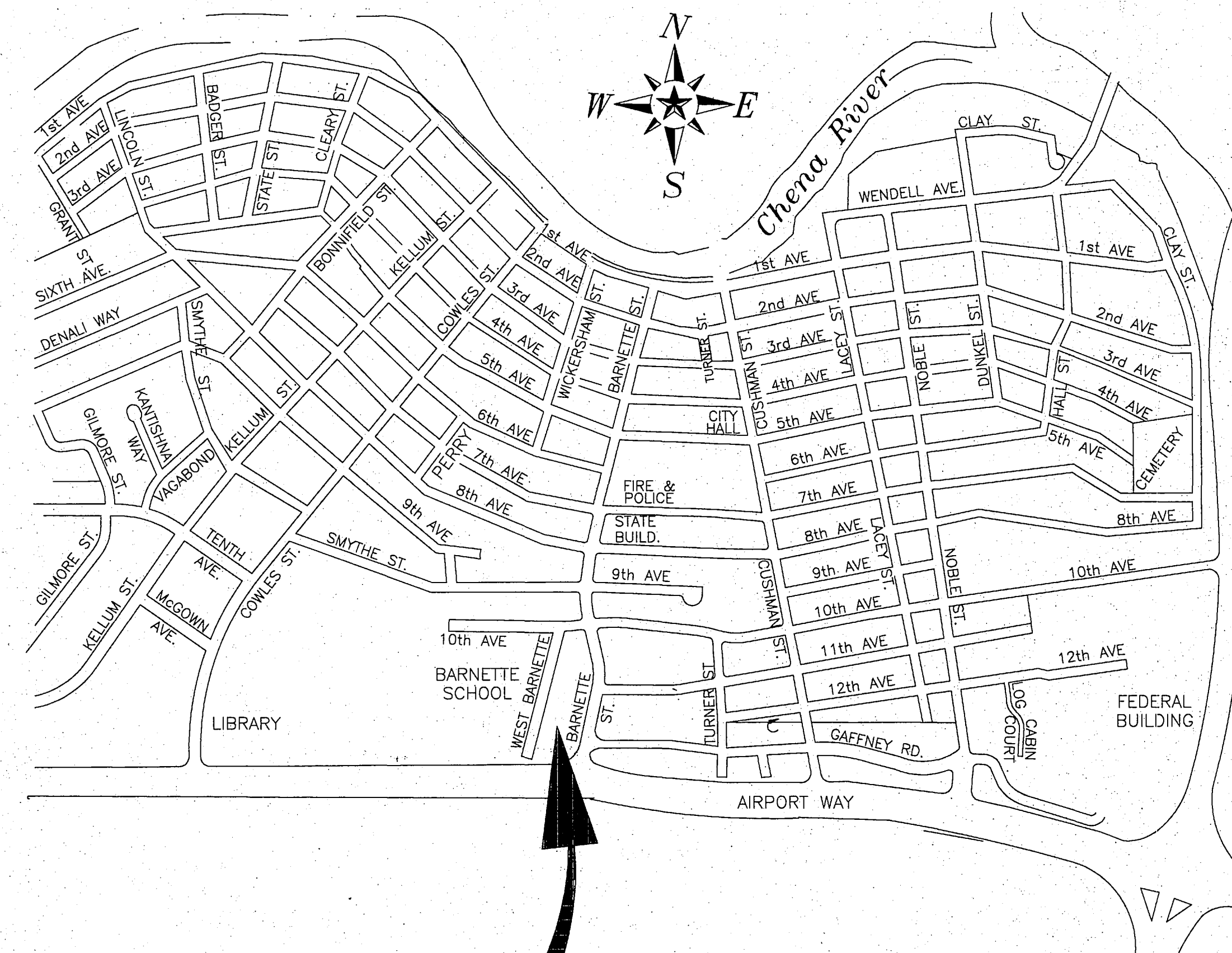
City of Fairbanks
FAIRBANKS HEALTH CENTER
Fairbanks, Alaska

LIVINGSTON
STONE
Architecture Engineering
Interior Design
Planning
3900 Arctic Blvd. Suite 301
Anchorage, Alaska 99503-5790
(907) 565-6565

FIRE ALARM SYSTEM

Drawing No. 01: Contract Info, Device Legend
Drawing No. 02: First Floor Device Layout
Drawing No. 03: Second Floor Device Layout
Drawing No. 04: Fire Alarm Riser Diagram
Drawing No. 05: Panel Terminations

	NOTIFIER AFP-1010 MULTIPLEXED ADDRESSABLE FIRE ALARM PANEL CONTROL (FAP)		NOTIFIER SHG SERIES HORN-STROBE, MOUNTING CONFIGURATION AS REQUIRED. "A" INDICATES INDICATING CIRCUIT ASSIGNMENT.
	NOTIFIER CPX-551 IONIZATION SMOKE DETECTOR. IXX INDICATES INTELLIGENT ADDRESSABLE DEVICE WITH AN XX ADDRESS ON THE SIGNALLING CIRCUIT.		NOTIFIER GXS SERIES STROBE, MOUNTING CONFIGURATION AS REQUIRED. "A" INDICATES INDICATING CIRCUIT ASSIGNMENT.
	NOTIFIER DHX-502 PHOTOELECTRIC SMOKE DETECTOR HOUSING. IXX INDICATES INTELLIGENT INITIATING DEVICE WITH AN XX ADDRESS ON THE SIGNALLING CIRCUIT.		NOTIFIER SHG SERIES HORN, INSTALLED TO WBB WEATHERPROOF BACKBOX.
	NOTIFIER FDX-551 RATE COMPENSATED THERMAL DETECTOR, 135 DEG. IXX INDICATES INTELLIGENT ADD. DEVICE WITH AN XX ADDRESS ON THE SIGNALLING CIRCUIT.		NOTIFIER GXS SERIES HORN-STROBE, MOUNTING CONFIGURATION AS REQUIRED. m INDICATES MINI-SOUNDER @ 82db.
	135 DEG./190 DEG., FIXED TEMPERATURE, NON-ADDRESSABLE THERMAL DETECTOR. REQUIRES CMX-1 MODULE TO ADDRESS DEVICE INTO MULTIPLEXED SIGNALLING CIRCUIT.		
	NOTIFIER BGX-101L MANUAL PULL STATION W/ LOCK. IXX INDICATES INTELLIGENT DEVICE WITH ADDRESS XX ON SIGNALLING CIRCUIT.		
	NOTIFIER MMX-1 ADDRESSABLE DUAL INPUT SWITCH. MONITORS TAMPER/FLOW SWITCHES AND INTERFACE OF NON-ADDRESSABLE DEVICES TO FA SYSTEM. C XX & C YY INDICATES CONTACT TYPE DEVICE WITH ADDRESS OF XX & YY ON SIG. CKT.		SIGNALLING LINE CIRCUIT (INITIATION): 2C #18 AWG TWISTED, SHIELDED CABLE. INSTALL AS STYLE 6 "CLASS-A" CIRCUIT. INSTALL AS CONTINUOUS LOOP-TWO WIRES OUT AND RETURN WITH ALL DEVICES IN SERIES. DO NOT T-TAP. SINGLE HATCH MARK INDICATES SINGLE CABLE RUN. GROUND SHIELD ONLY TO FAP AT FEED SIDE OF CIRCUIT. DO NOT GROUND SHIELD AT ANY OTHER POINT. ENSURE ALL SHIELD SPLICES ARE CONTINUOUS.
	NOTIFIER CMX-1 ADDRESSABLE RELAY MODULE. PROVIDES AIR HANDLER SHUTDOWN AND OTHER NECESSARY RELAY CONTROLS. SUPERVISES RELAY CONTROL CIRCUIT TO POINT OF MODULE. C XX INDICATES CONTRACT TYPE DEVICE WITH XX ADD. ON SIG. CKT.		INDICATING CIRCUIT (AUDIBLES): 2C #12 AWG THHN. + - RED, - = BLK INSTALL AS STYLE Z "CLASS-A" CIRCUIT. INSTALL AS CONTINUOUS LOOP-TWO WIRES OUT AND RETURN WITH ALL DEVICES IN SERIES. DO NOT T-TAP. SINGLE HATCH MARK INDICATES 2 WIRE PAIR (+ POS. & NEG.). DO NOT EXCEED 3 OHM TOTAL LOOP RESISTANCE, OR EXCEED 1.5AMP CIRCUIT LOAD.
	SPRINKLER SYSTEM TAMPER SWITCH, PROVIDED BY OTHERS UNDER DIV. 15.		CONTROL CIRCUITS (DOOR HOLDERS, FAN SHUTDOWN): DOOR HOLDERS: 2C #14 AWG THHN. + - ORA, - = BRN DOOR HOLDER POWER CIRCUITS MAY BE T-TAPPED. DO NOT EXCEED 1.5AMP PER HOLDER CIRCUIT.
	SPRINKLER SYSTEM FLOW SWITCH, PROVIDED BY OTHERS UNDER DIV. 15.		FAN CONTROL: 2C #12 AWG THHN. WHI & BLK. CONNECT TO AHU MAG STARTER AHEAD OF HOA SWITCH. DO NOT EXCEED 0.3A, 120VAC CURRENT LOADING. INSTALL INTERPOSING RELAY IF REQUIRED TO MEET CURRENT LIMITATIONS.



FAIRBANKS
HEALTH CENTER

RECORD DRAWING

Refugio B. Burch
CITY ENGINEER, CITY OF FAIRBANKS

418196
DATE

PROJECT INFORMATION

PROJECT NUMBER

LOCATION FAIRBANKS, ALASKA

OWNER CITY OF FAIRBANKS

OWNER'S REPRESENTATIVE CITY OF FAIRBANKS
DEPT. OF PUBLIC WORKS
FAIRBANKS, ALASKA

ELECTRICAL ENGINEERS LIVINGSTON & SLOAN INC.
3900 ARCTIC BLVD. SUITE 301
ANCHORAGE, ALASKA 99503
PHN (907) 562-2058

ELECTRICAL CONTRACTOR RAY ELECTRIC, INC.
POB 71993
FAIRBANKS, ALASKA 99701
PHN: (907) 452-3704

OBJECT MANAGEMENT / TECHNICAL SUPPORT DETECTION TECHNOLOGY CORP.
1781 DONALD AVENUE
FAIRBANKS, ALASKA 99701
PHN: (907) 452-8500 FAX: (907) 452-8888

SYSTEM EQUIPMENT SUPPLIER DETECTION TECHNOLOGY CORP.
601 W., 41st AVE.
ANCHORAGE, ALASKA 99518
PHN: (907) 561-8300 FAX: (907) 561-8304

[illegible]

DESIGNED: J. GEDNEY	APPROVED:
DRAWN: J. GEDNEY	DATE
TRACED: ACAD V11	PROJECT MANAGER
CHECKED: L. BROWN	DATE
PROJ MGR: L. BROWN	
FILENAME: FHCFIRE1	
PLOT SCALE: FIT	

FAIRBANKS HEALTH CENTER
MULTIPLYED FIRE ALARM SYSTEM, SPEC. 16721
CONTRACT INFORMATION DEVICE LEGEND

Detection Technology Corporation

CONTRACT / LICENSE NO. 45-30193

ANCHORAGE (907) 567-8500

FAIRBANKS (907) 452-8500

LISTED SERVICE AGENCY

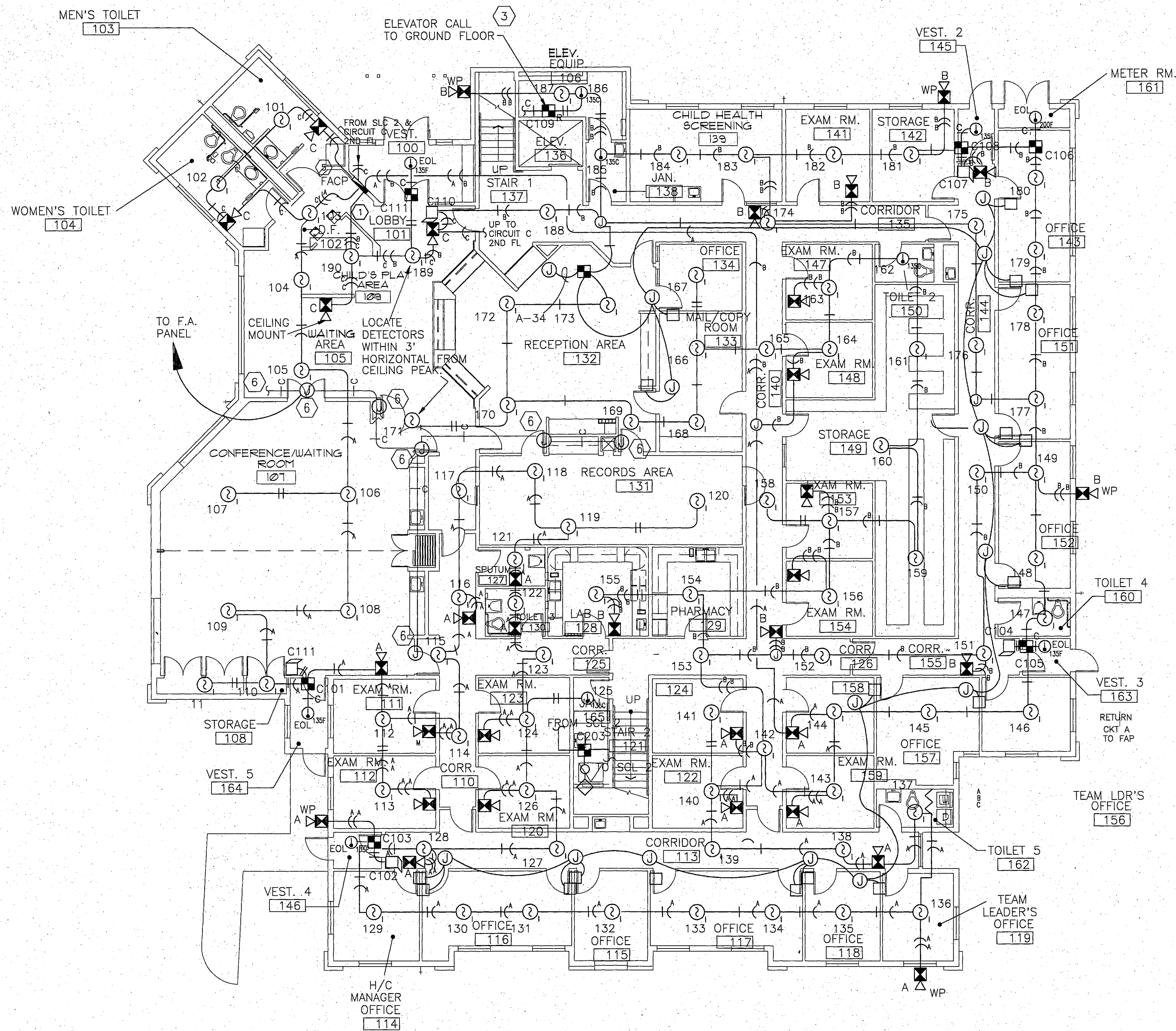
SIGNAL AND CONTROL SYSTEMS

PROJECT NUMBER: D0593F
PROJECT DATE: 3 JUNE 1993

SHEET

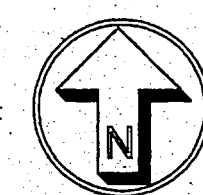
01 OF 05

F3.0.004



- 1 RETURN CIRCUITS TO FAP TO COMPLETE "CLASS-A" LOOP.
 - 2 INDICATING CIRCUIT TOTAL LOOP RESISTANCE MUST NOT EXCEED 3.0 OHM.
 - 3 RELAY CONTACT FOR ELEVATOR RECALL NOT TO EXCEED 0.3A. INSTALL INTERPOSING RELAY AS REQUIRED.
 - 4 DO NOT INSTALL AUTOMATIC INITIATION DEVICES WITHIN 3' OF AIR DISCHARGE GRILLS OR WITHIN 4" OF WALLS.
 - 5 INSTALL 18"x18"x4" NEMA 1 ENCLOSURE ABOVE FAP. TERMINATE ALL CIRCUITS TO TERMINAL STRIP WITHIN ENCLOSURE. INSTALL ALL NECESSARY CIRCUITS FROM FAP TO TERMINAL STRIP.
 - 6 PROVIDE 120VAC FOR DOOR HOLDERS. COORDINATED WITH DOOR HARDWARE INSTALLER FOR MOUNTING REQUIREMENTS. INSTALL 2C #14 THHN BETWEEN EACH J-BOX. N/C CONTACT AT FACP. POWER CIRCUIT MAY BE T-TAPPED. DO NOT EXCEED 1.5 AMPS TOTAL.
- ☐ DOOR HOLDER

A FIRST FLOOR DEVICE & CIRCUIT LAYOUT
02 NOT TO SCALE



**RECORD
DRAWING**

Stephen D. Brown
CITY ENGINEER, CITY OF FAIRBANKS

9/8/96
DATE

OWNER: CITY OF FAIRBANKS	CONTRACTOR: RAY ELECTRIC, INC.	CITY: FAIRBANKS	STATE: ALASKA
CONTRACT NO.:	REV. DATE	BY: APPD.	DESCRIPTION

DESIGNED: L. G. BROWN	APPROVED:	DATE	PROJECT MANAGER	DATE
DRAWN: L. G. BROWN	TRACED: ACAD V11	CHECKED: T. HOULTON	FILENAME: FHCIFR2	PLOT SCALE: FIT
PROJ MGR: L. BROWN				

FAIRBANKS HEALTH CENTER
MULTIPLXED FIRE ALARM SYSTEM, SPEC. 16721
FIRST LEVEL DEVICE & CIRCUIT LAYOUT

Detection Technology Corporation
SIGNAL AND CONTROL SYSTEMS

ANCHORAGE (907) 561-6300
FAIRBANKS (907) 452-8500
LATEST SERVICE BUREAU

CONTRACT LICENSE NO. 44-23189

PROJECT NUMBER: D0593F	PROJECT DATE: 3 JUNE 1993
SCALE: NO SCALE	SHEET
02	OF 05

OWNER: CITY OF FAIRBANKS	CONTRACTOR: RAY ELECTRIC, INC.	STATE: ALASKA
CITY: FAIRBANKS	CONTRACT NO.:	
REV.	DATE	BY: APPD.
		DESCRIPTION

DESIGNED: L. G. BROWN	APPROVED:	DATE
DRAWN: L. G. BROWN	PROJECT MANAGER	DATE
TRACED: ACAD V11		
CHECKED: T. HOULTON		
PROJ MGR: L. BROWN		
FILENAME: FHCIFR2		
PLOT SCALE: FIT		

FAIRBANKS HEALTH CENTER
MULTIPLEXED FIRE ALARM SYSTEM, SPEC. 16721
FIRST LEVEL DEVICE & CIRCUIT LAYOUT

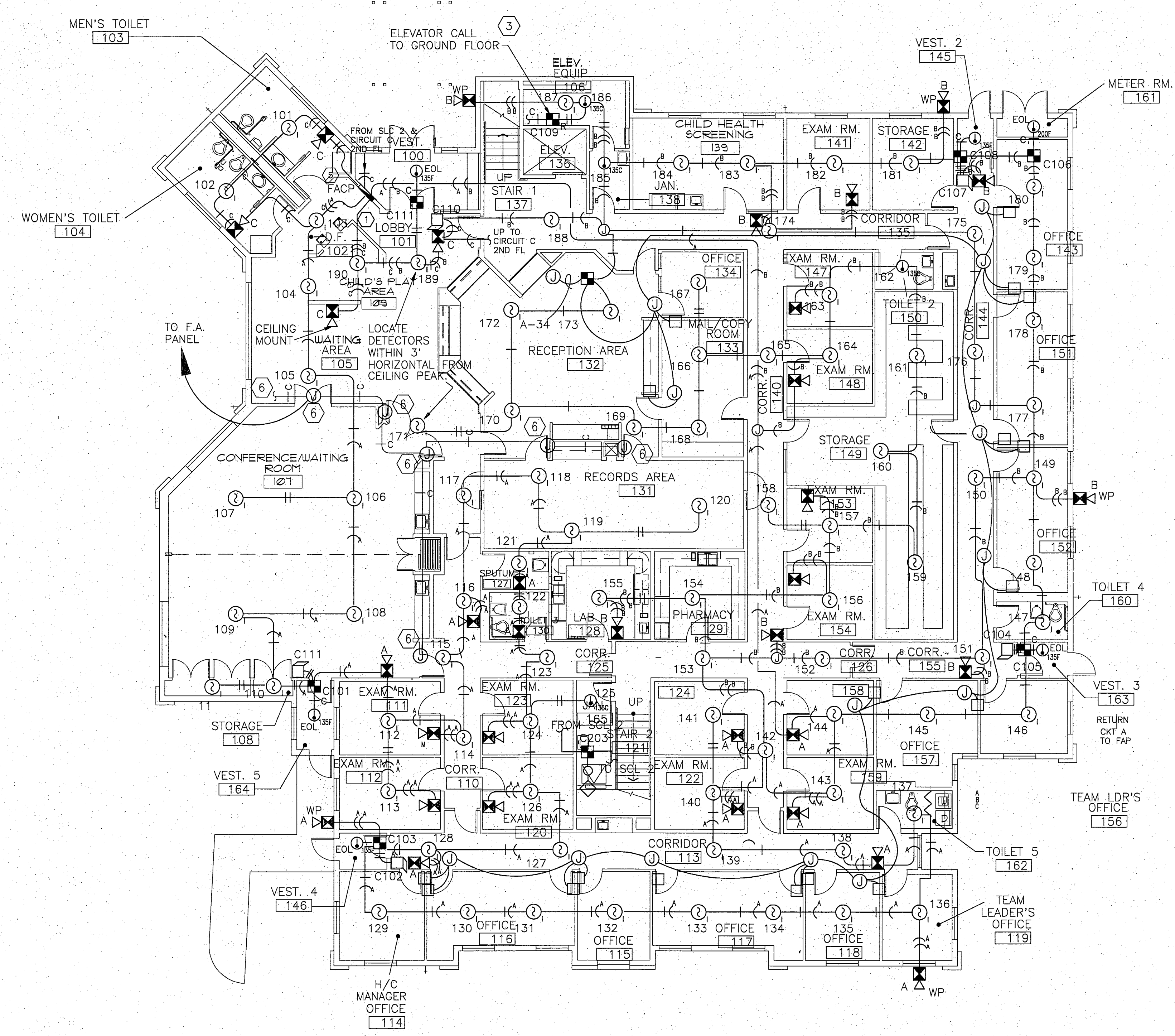
Detection Technology Corporation
SIGNAL AND CONTROL SYSTEMS

ANCHORAGE (907) 561-9300
FAIRBANKS (907) 452-9500

CONTRACT LICENSE NO. AK-20189

PROJECT NUMBER: D0593F
PROJECT DATE: 3 JUNE 1993
SCALE: NO SCALE
SHEET
02 OF 05

F3.0.003

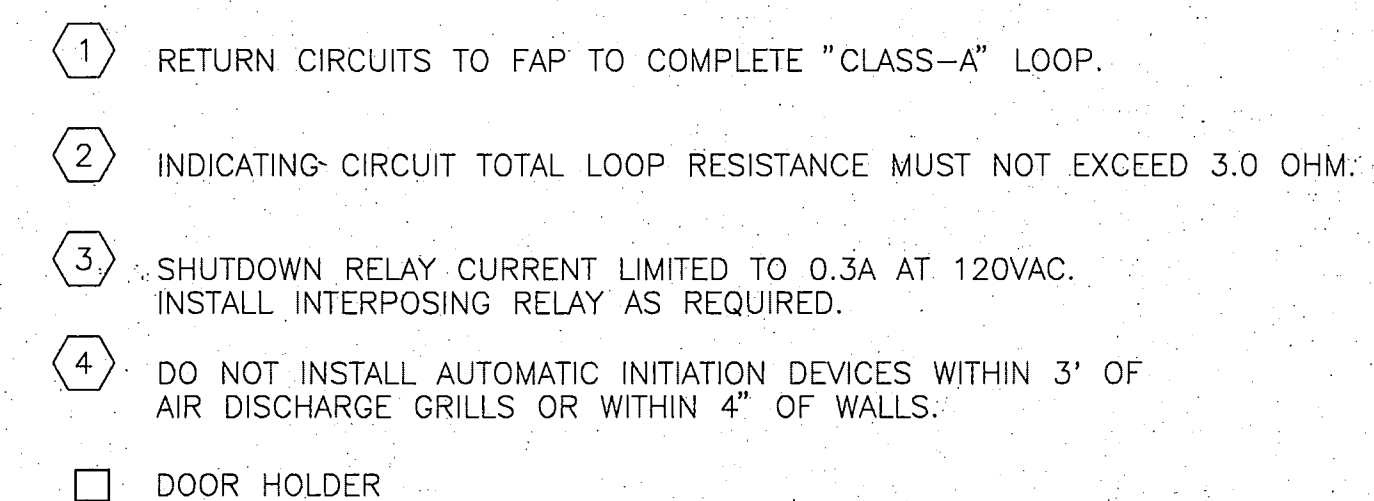


- 1 RETURN CIRCUITS TO FAP TO COMPLETE "CLASS-A" LOOP.
 - 2 INDICATING CIRCUIT TOTAL LOOP RESISTANCE MUST NOT EXCEED 3.0 OHM.
 - 3 RELAY CONTACT FOR ELEVATOR RECALL NOT TO EXCEED 0.3A. INSTALL INTERPOSING RELAY AS REQUIRED.
 - 4 DO NOT INSTALL AUTOMATIC INITIATION DEVICES WITHIN 3' OF AIR DISCHARGE GRILLS OR WITHIN 4" OF WALLS.
 - 5 INSTALL 18"x18"x4" NEMA 1 ENCLOSURE ABOVE FAP. TERMINATE ALL CIRCUITS TO TERMINAL STRIP WITHIN ENCLOSURE. INSTALL ALL NECESSARY CIRCUITS FROM FAP TO TERMINAL STRIP.
 - 6 PROVIDE 120VAC FOR DOOR HOLDERS. COORDINATED WITH DOOR HARDWARE INSTALLER FOR MOUNTING REQUIREMENTS. INSTALL 2C #14 THHN BETWEEN EACH J-BOX. N/C CONTACT AT FACP. POWER CIRCUIT MAY BE T-TAPPED. DO NOT EXCEED 1.5 AMPS TOTAL.
- ☐ DOOR HOLDER

A FIRST FLOOR DEVICE & CIRCUIT LAYOUT
02 NOT TO SCALE

RECORD DRAWING

Robert D. Brown
CITY ENGINEER, CITY OF FAIRBANKS
4/8/96
DATE



RECORD DRAWING

4/8/96
DATE

FAIRBANKS HEALTH CENTER
MULTIPLIED FIRE ALARM SYSTEM, SPEC. 16721
SECOND LEVEL DEVICE & CIRCUIT LAYOUT

**Detection
Technology
Corporation**

ANCHORAGE (907) 561-9300

FAIRBANKS (907) 452-8500

LISTED SERVICE AGENCY

CONTRACT LICENSE NO. AK-20159

DESIGNED: L. G. BROWN	APPROVED: _____ DATE _____ PROJECT MANAGER _____
DRAWN: L. G. BROWN	
TRACED: ACAD V11	
CHECKED: T. HOULTON	
PROJ. MGR: L. BROWN	
FILENAME: FHCIRES3	
PLOT SCALE: FIT	

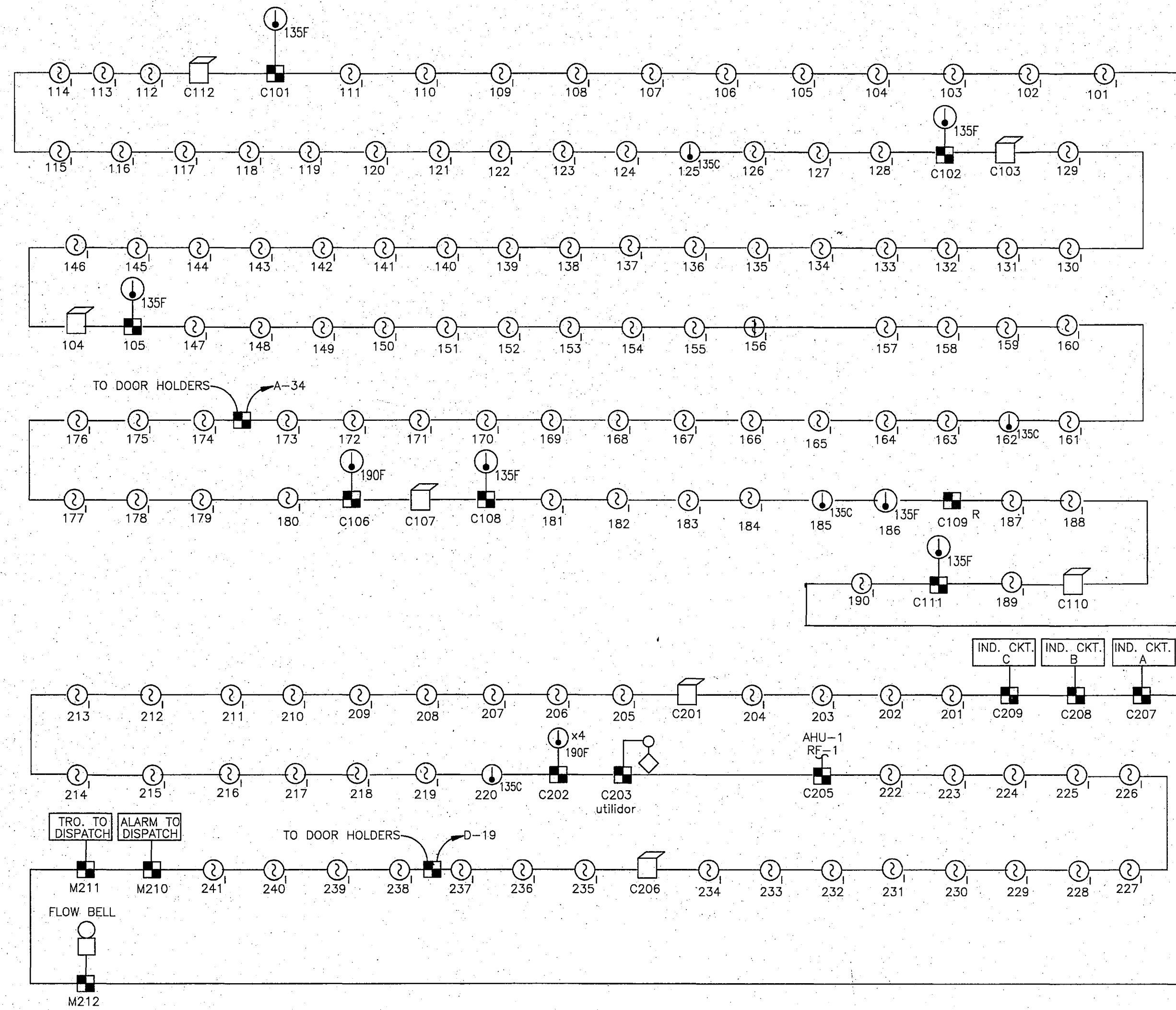
OWNER: CITY OF FAIRBANKS
CONTRACTOR: RAY ELECTRIC, INC.
CITY: FAIRBANKS
CONTRACT NO.:

REV.	DATE	BY:	APPD:	DESCRIPTION.
------	------	-----	-------	--------------

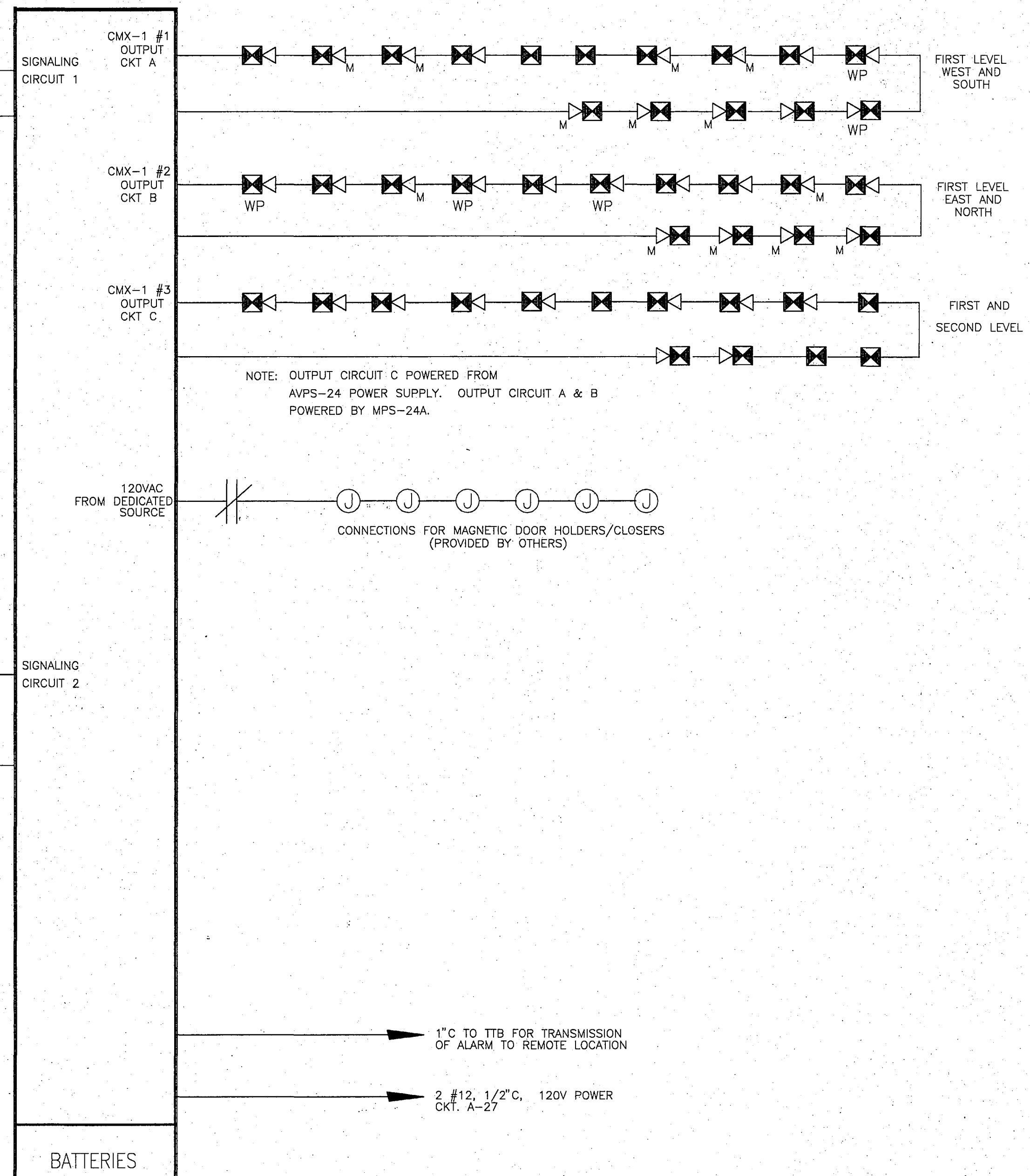
PROJECT NUMBER: D0593F
PROJECT DATE: 3 JUNE 1993
SCALE: NO SCALE
SHEET

03 OF 05

INITIATING CIRCUITS



NOTIFIER CONTROL PANEL



ANNUNCIATION CIRCUITS

A FIRE ALARM SYSTEM FUNCTIONAL RISER DIAGRAM
04 NO SCALE

RECORD DRAWING

Perkins D. Burch
CITY ENGINEER, CITY OF FAIRBANKS

4/8/96
DATE

FAIRBANKS HEALTH CENTER
MULTIPEXED FIRE ALARM SYSTEM, SPEC. 16721
FIRE ALARM FUNCTIONAL RISER DIAGRAM

**Detection
Technology
Corporation**

CONTRACT LICENSE NO. AK-20199

ANCHORAGE
(907) 561-8300



FAIRBANKS
(907) 452-8500

LITSTO SERVICE AGENCY

DESIGNED: L. BROWN

DRAWN: L. BROWN

TRACED: ACAD V111

CHECKED: T. HOULTON

PROJ MGR: L. BROWN

FILENAME: FHC\FIRE4

PLOT SCALE: FIT

100

500

DATE _____

PROJECT MANAGER

OWNER: CITY OF FAIRBANKS

CONTRACTOR: RAY ELECTRIC, INC.

CITY: FAIRBANKS

CONTRACT NO.:

DESCRIPTION

APPD.

BY:

DATE : _____

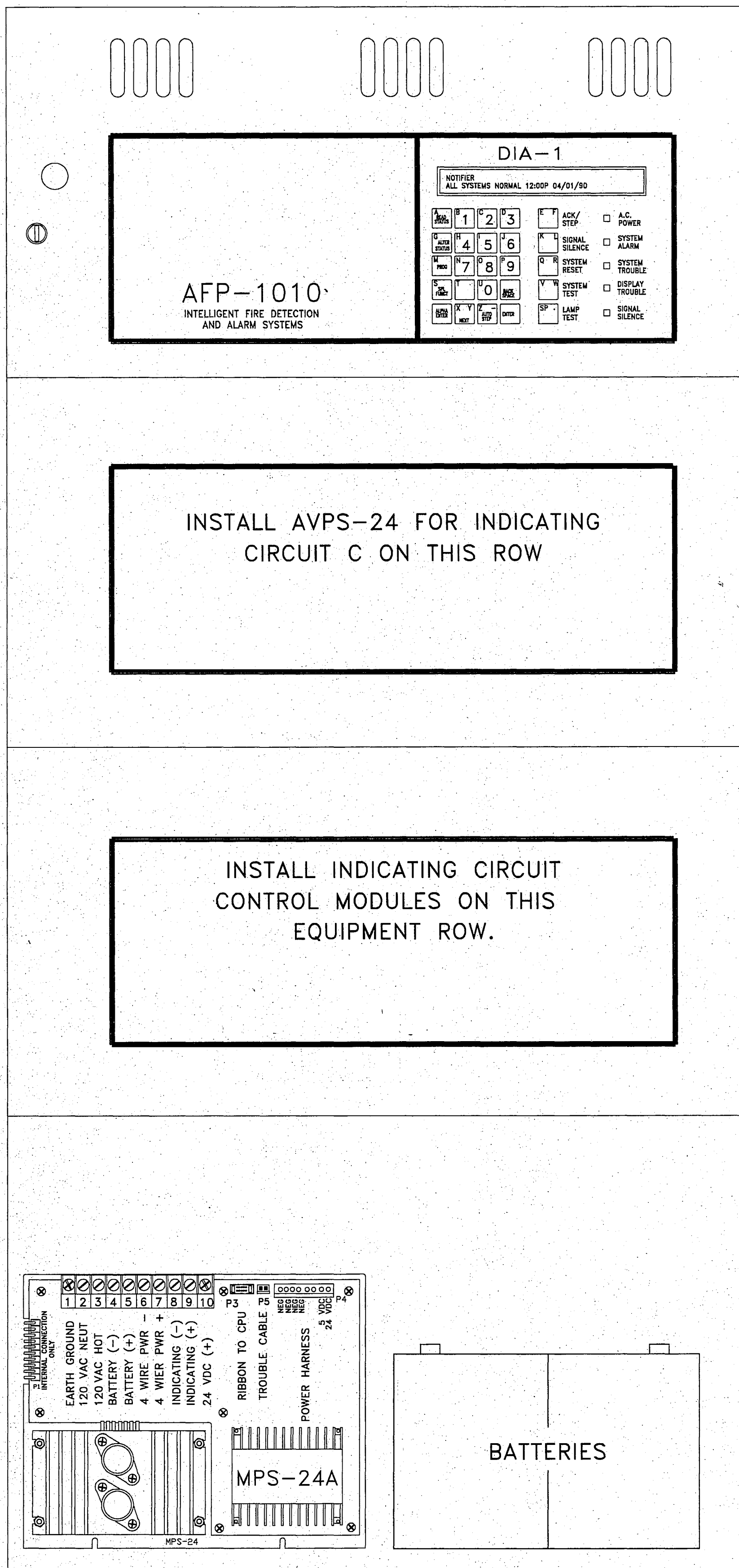
REV.

PROJECT NUMBER: D0593F
PROJECT DATE: 3 JUNE 1993

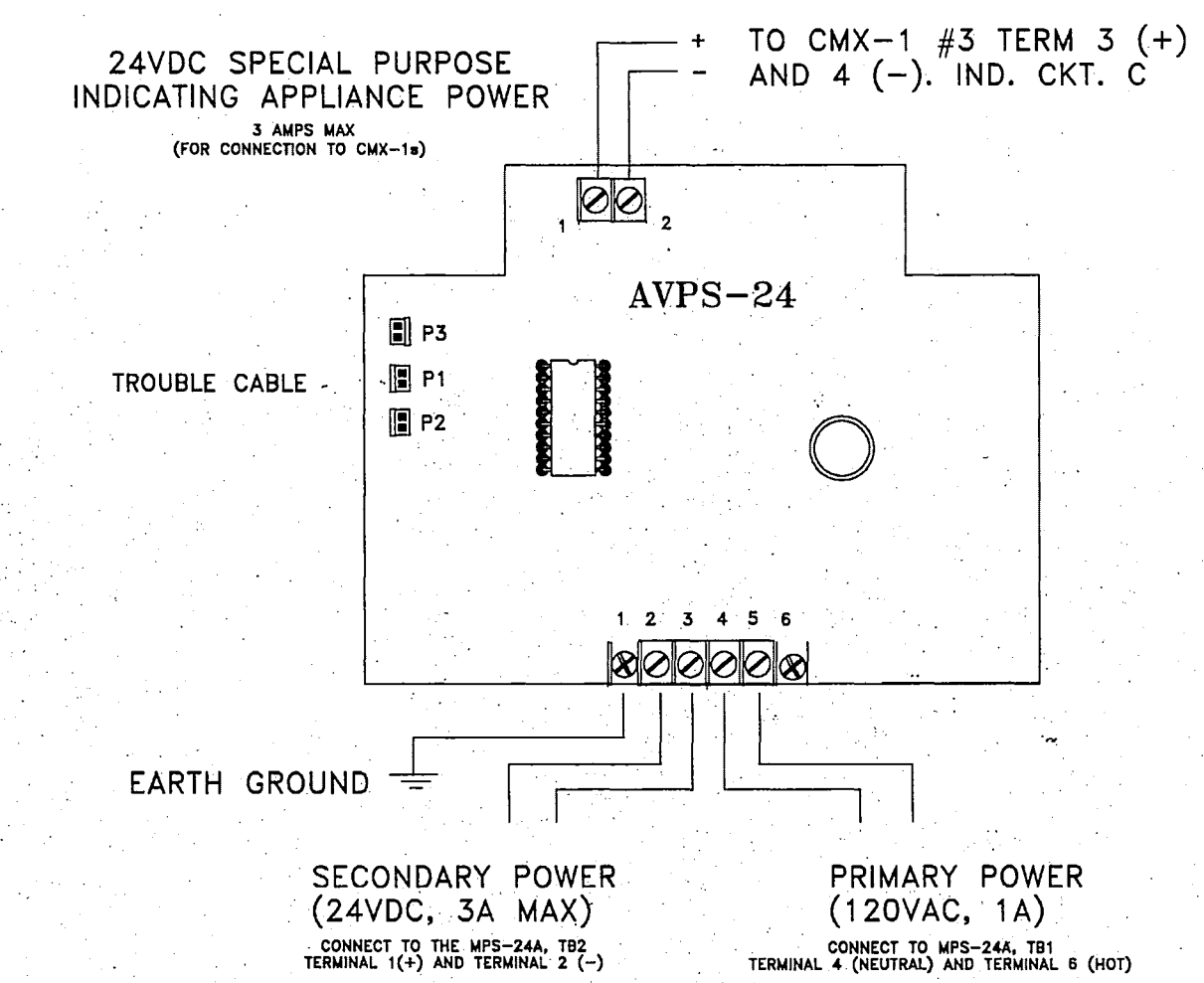
SHEET

04 OF 05

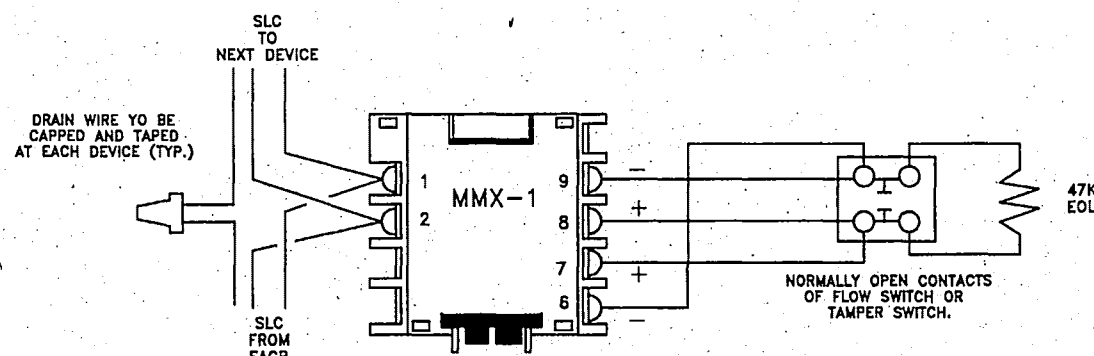
F3.0.001



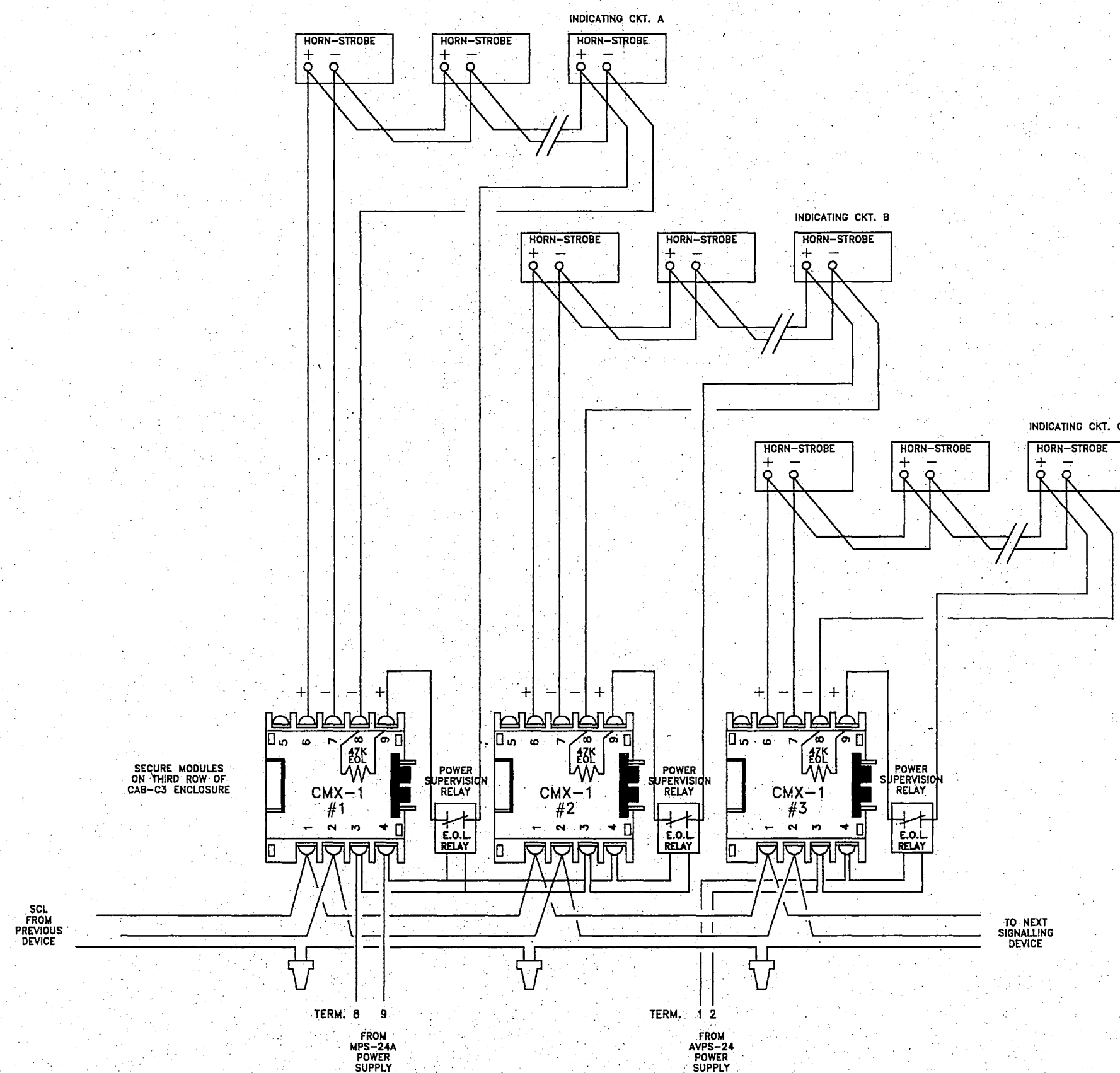
A ALARM SYSTEM PANEL LAYOUT- AFP-1010
05 NO SCALE



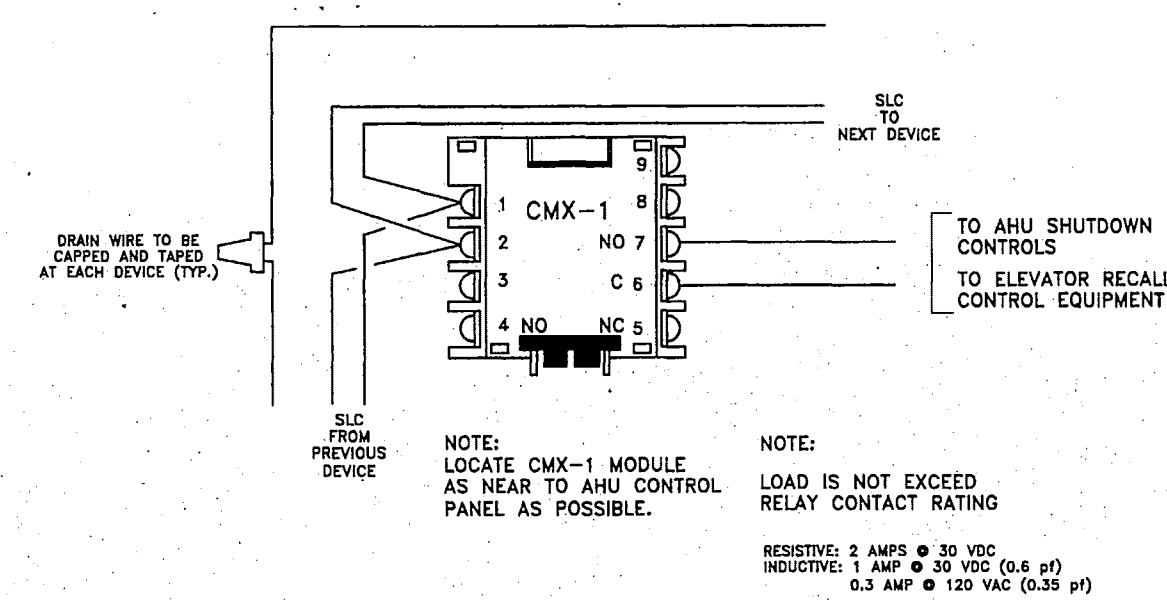
B AVPS-24 FOR AUDIBLE CIRCUIT C
05 NO SCALE



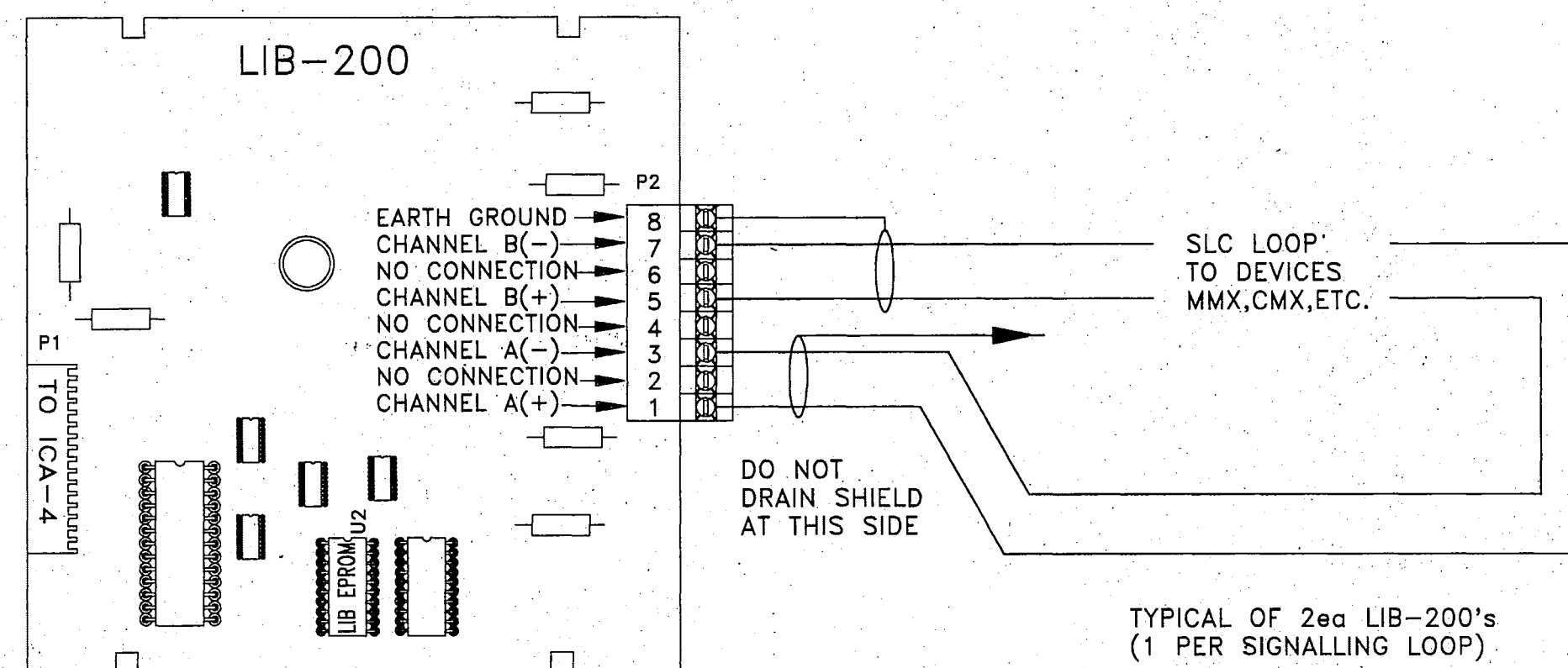
D TAMPER & FLOW WIRING (TYP)
05 NO SCALE



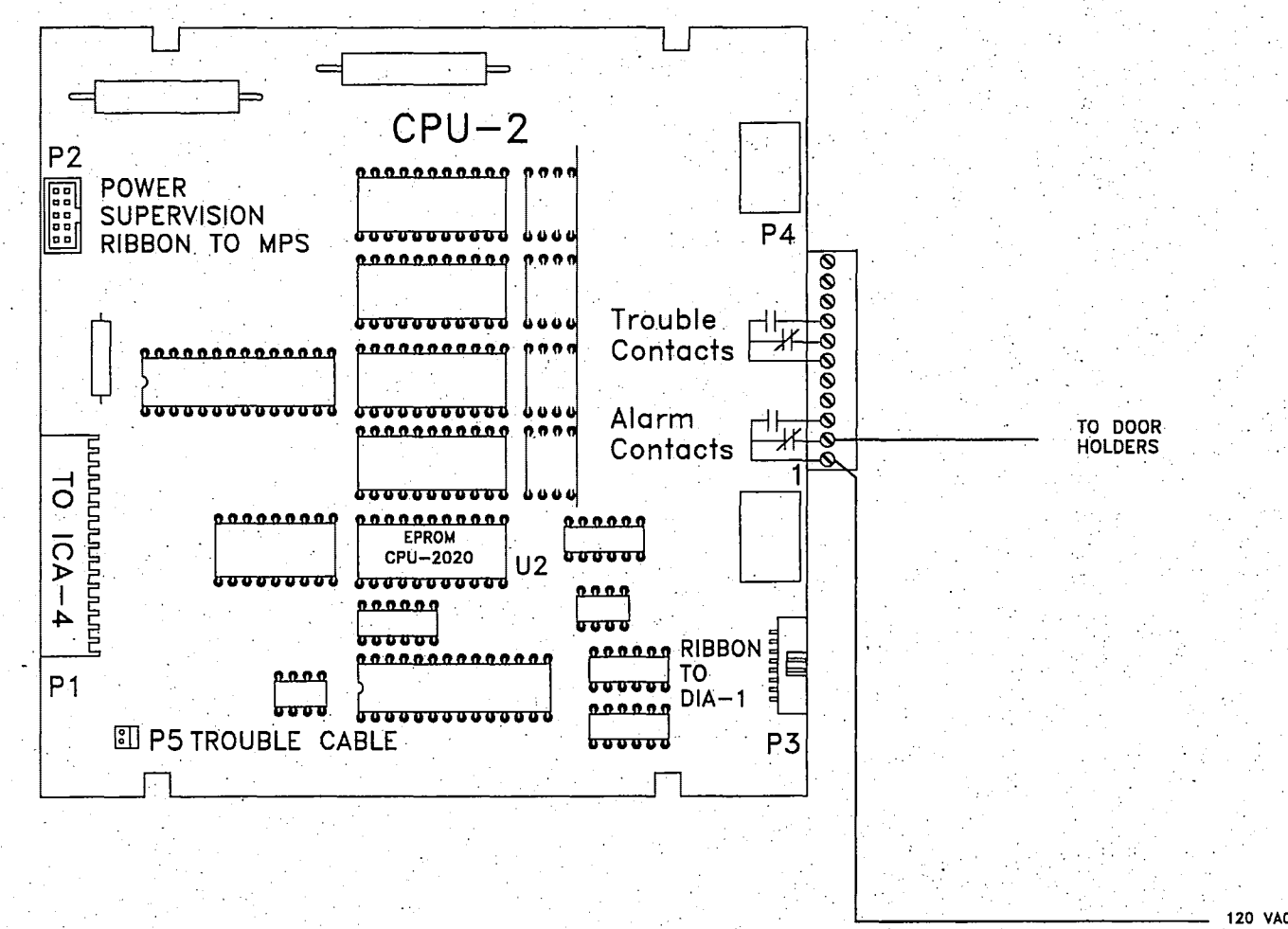
F INDICATING DEVICE TERMINATION DETAIL
05 NO SCALE



C FORM -C RELAY FOR AHU SHUTDOWN
05 NO SCALE



E LIB-200 BOARD SIGNALLING CIRCUIT TERMINATIONS
05 NO SCALE



G CPU-2 MAIN PROCESSOR BOARD
05 NO SCALE

**RECORD
DRAWING**

Robert D. Brown
CITY ENGINEER, CITY OF FAIRBANKS

4/8/96
DATE

OWNER: CITY OF FAIRBANKS
CONTRACTOR: RAY ELECTRIC, INC.
CITY: FAIRBANKS
CONTRACT NO.:
STATE: ALASKA
REV. DATE BY: APPD. DESCRIPTION

DESIGNED: L. BROWN
DRAWN: L. BROWN
TRACED: ACAD V11
CHECKED: T. HOULTON
PROJ MGR: L. BROWN
FILENAME: FHCIFR5
PLOT SCALE: FIT
APPROVED: DATE PROJECT MANAGER DATE

FAIRBANKS HEALTH CENTER
MULTIPLEXED FIRE ALARM SYSTEM, SPEC. 16721
TYPICAL DEVICE TERMINATIONS

ANCHORAGE
18071 551-5300
FAIRBANKS
18071 452-5500
Detection Technology Corporation
SIGNAL AND CONTROL SYSTEMS

PROJECT NUMBER: D0593F
PROJECT DATE: 3 JUNE 1993
SCALE: N.T.S.
SHEET
05 OF 05