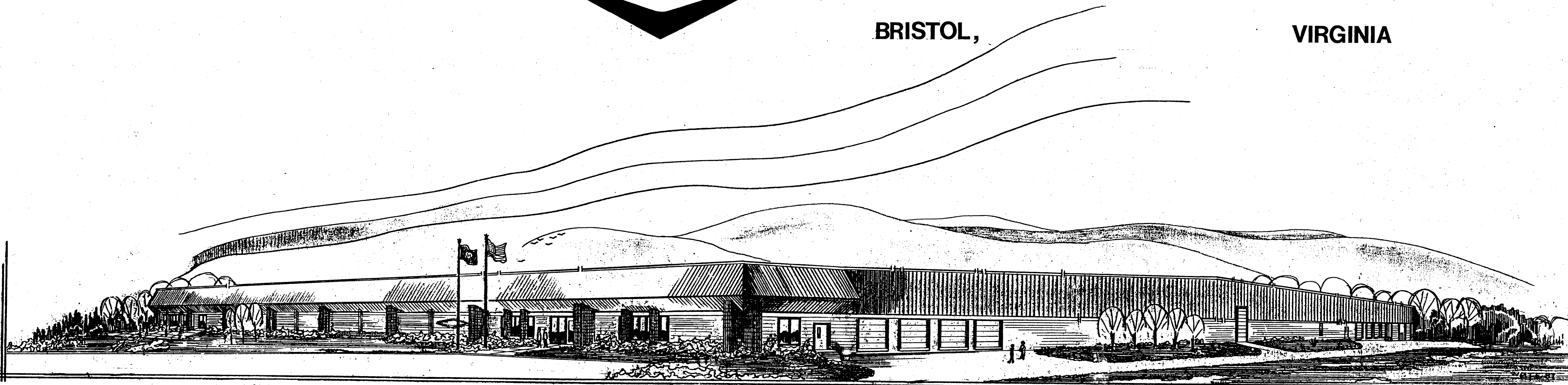




# SPICER UNIVERSAL JOINT DIVISION

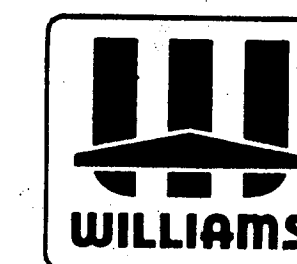
BRISTOL,

VIRGINIA



**CAMERON L. WOLFE, JR., A.I.A.**  
ARCHITECT

1102 B NORTH MAIN  
MARION, VIRGINIA



**THE H.S. WILLIAMS COMPANY, INC.,**

GENERAL CONTRACTOR

MARION, VIRGINIA

## ASSOCIATED ENGINEERING CONSULTANTS

JOHNSON CITY,

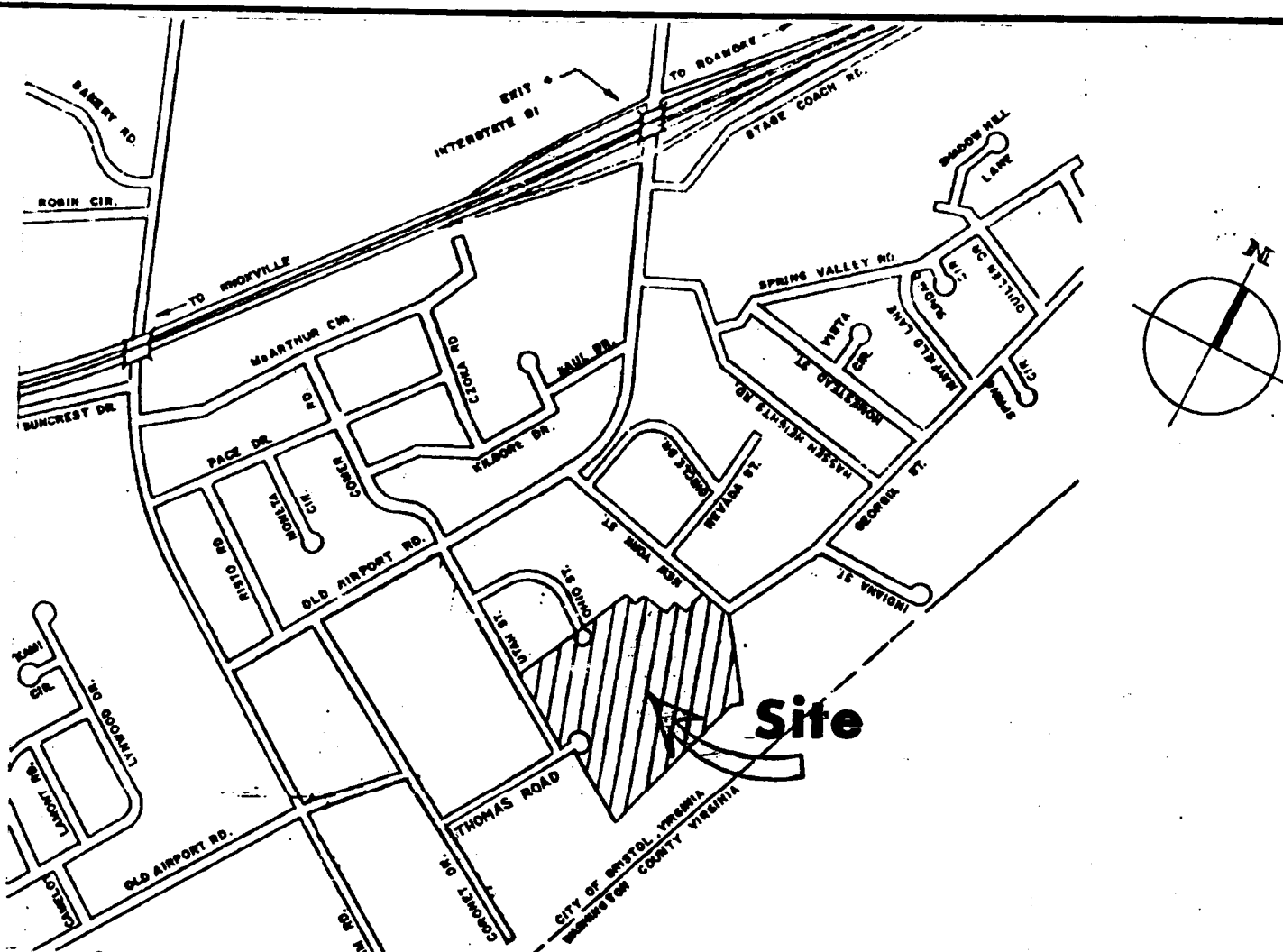
TENNESSEE

## DANA CORPORATION

ROBERT M. MINKE, FACILITIES ENGINEER  
TOLEDO, OHIO

## AS-BUILTS

### SITE LOCATION PLAN



### INDEX OF DRAWINGS

#### ARCHITECTURAL

- S-1 SITE GRADING PLAN
- LS-1 LANDSCAPING PLAN/TREE SUPPORT SCHEDULE
- LS-2 ENLARGED LANDSCAPING
- F-1 FOUNDATION PLAN/FOOTING & PIER SCHEDULE
- A-1 MASTER FLOOR PLAN
- A-2 P'L PL. PLAN/TOILET RM. ACCESS. SCHEDULE
- A-3 PARTIAL PL. PLAN
- A-4 PARTIAL PL. PLAN/DETAILS
- A-5 PARTIAL PL. PLAN/INTERIOR ELEVATION
- A-6 PARTIAL PL. PLAN/DETAILS
- A-7 EXTERIOR ELEVATIONS
- A-8 DOOR SCHEDULE/DOOR AND WINDOW DETAILS
- A-9 FINISH SCHEDULE/WALL SECTIONS
- A-10 CROSS SECTIONS
- A-11 REFLECTED CEILING PLANS/LGEND
- A-12 REFLECTED CEILING PLANS
- A-13 REFLECTED CEILING PLAN/PLANT OFFICE AREA

#### SITE UTILITIES:

- SU-1 SITE UTILITIES PLAN
- SU-2 SITE UTILITY DETAILS

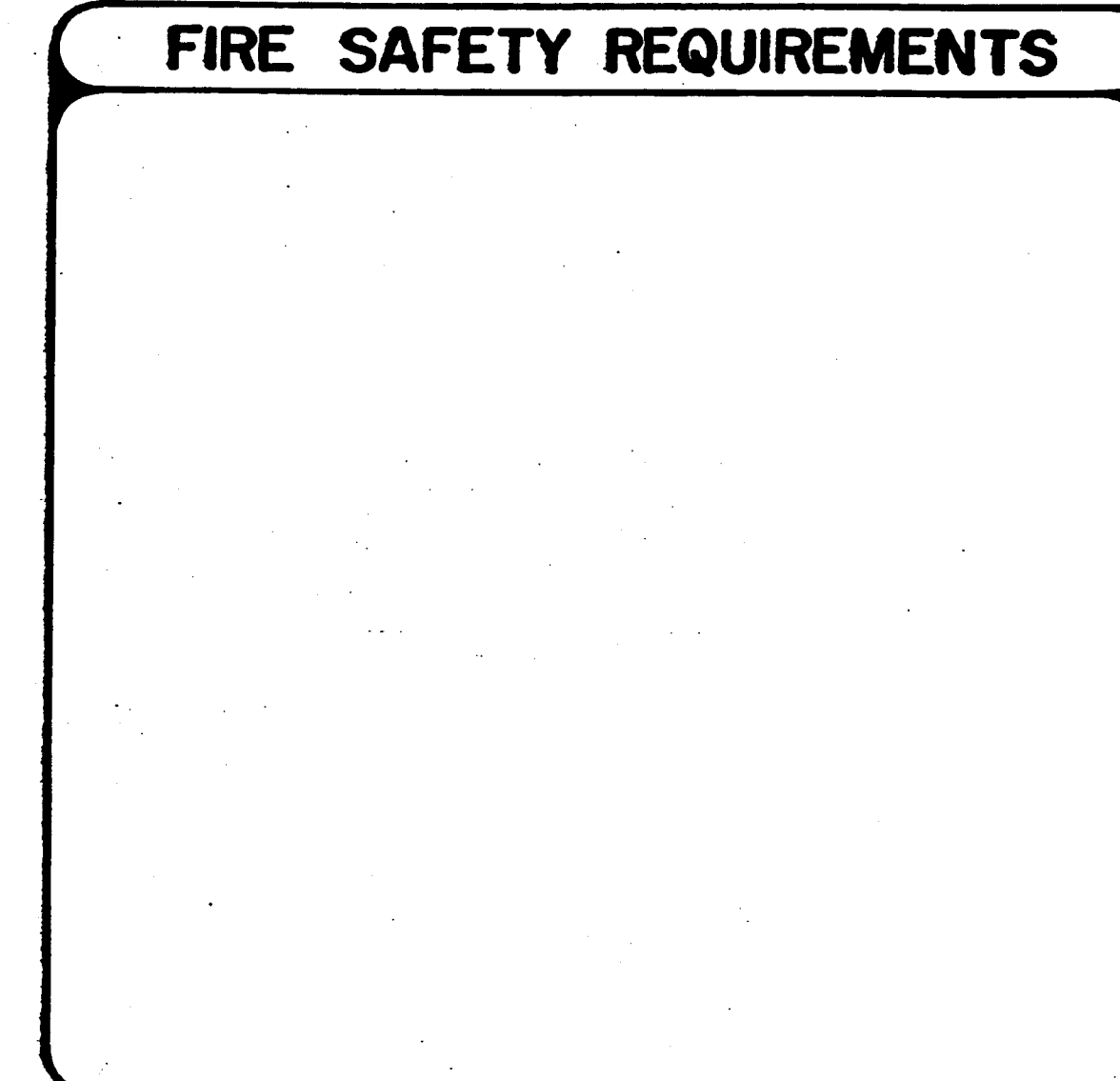
#### MECHANICAL & PLUMBING

- MP-1 OVERALL HVAC PLAN - EAST SIDE
- MP-2 OVERALL HVAC PLAN - WEST SIDE
- MP-3 OVERALL PLUMBING PLAN - EAST SIDE
- MP-4 OVERALL PLUMBING PLAN - WEST SIDE
- MP-5 PARTIAL PLAN-PLANT OFFICE AREA-HVAC
- MP-6 PARTIAL PLAN-PLANT OFFICE AREA-PLUMB.
- MP-7 P'L PLAN-PLANT OFFICE AREA-HVAC & PLUMB.
- MP-8 P'L PLAN AT LAB AREA - HVAC & PLUMBING
- MP-9 P'L PLAN AT BREAK/TOILETS - HVAC & PLUMB.
- MP-10 P'L PLAN AT SER./UT. AREA - HVAC
- MP-11 P'L PLAN AT SER. UTILITY AREA - PLUMB.
- MP-12 AIR DISTR. & EXHAUST FAN SCHED.: DETAILS
- MP-13 PLUMB. FIX. SCHEDULE/PLUMB. LEGEND/DETAILS

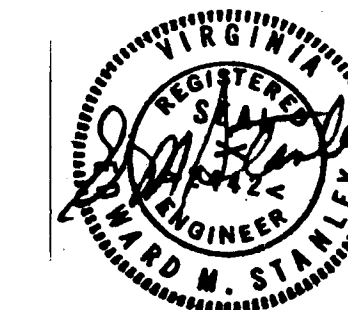
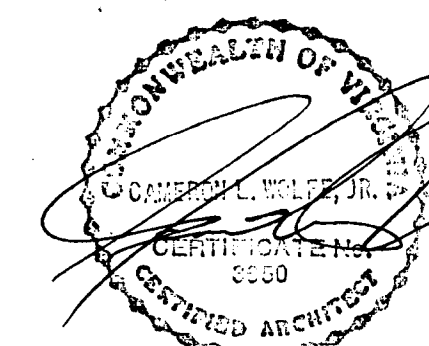
#### ELECTRICAL

- E-1 P'L OVERALL ELECT. PLAN: LIGHTING - EAST
- E-2 P'L OVERALL ELECT. PLAN: LIGHTING - WEST
- E-3 P'L OVERALL ELECT. PLAN: POWER - EAST
- E-4 P'L OVERALL ELECT. PLAN: POWER - WEST
- E-5 P'L PLAN AT PLANT OFFICE AREA - LIGHTING
- E-6 P'L PLAN AT PLANT OFFICE AREA - POWER & COM.
- E-7 P'L PLAN AT PLANT OFFICE AREA-LIGHT/POWER/COM.
- E-8 P'L PLAN AT LAB-LIGHTING/POWER/COMMUNICATION
- E-9 P'L PLAN AT BREAK/TOILET-LIGHT./POWER & COM.
- E-10 P'L PLAN AT SERVICE/UTILITY AREA-LIGHT&POWER
- E-11 ELECT. DISTRIBUTION RISER DIAGRAM
- E-12 ELECTRICAL LEGEND/LIGHTING FIXTURE SCHEDULE
- E-13 BRANCH CIRCUIT PANELBOARDS

### FIRE SAFETY REQUIREMENTS



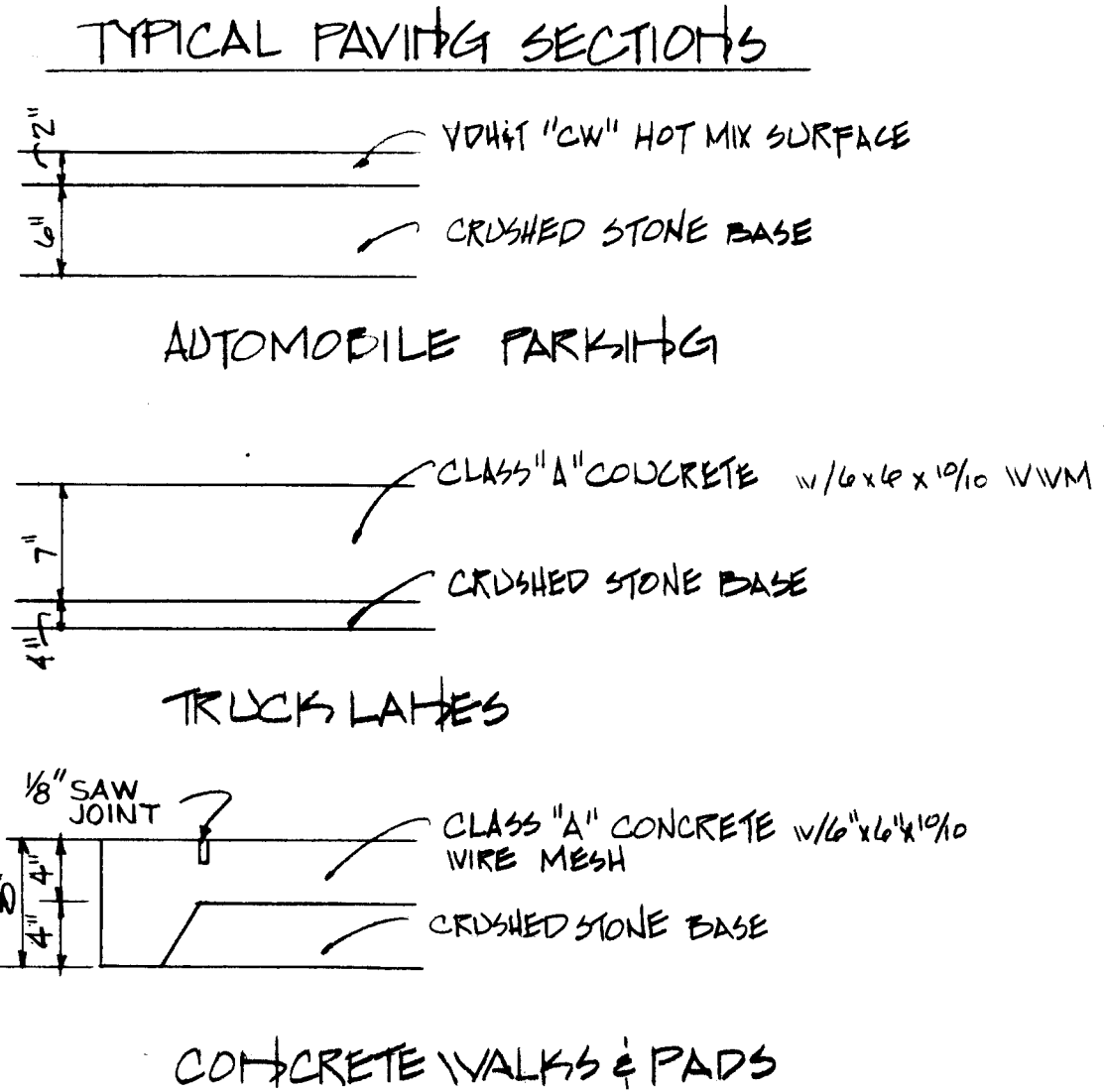
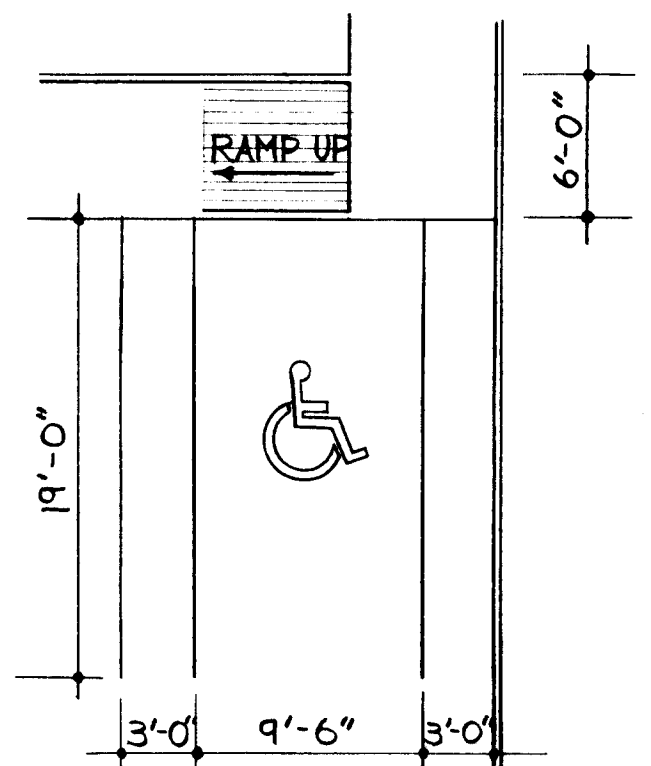
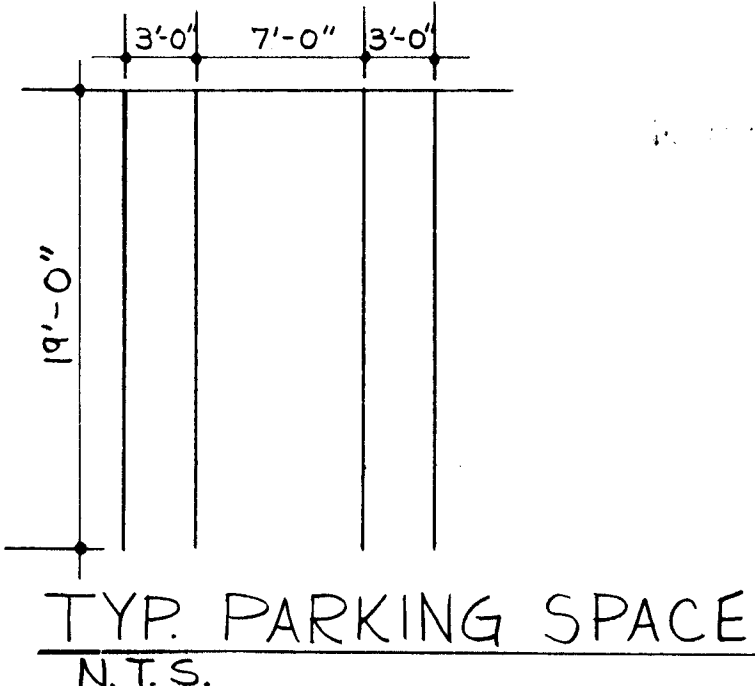
### SEALS



**SITE ROUGH GRADING REQUIREMENTS:**

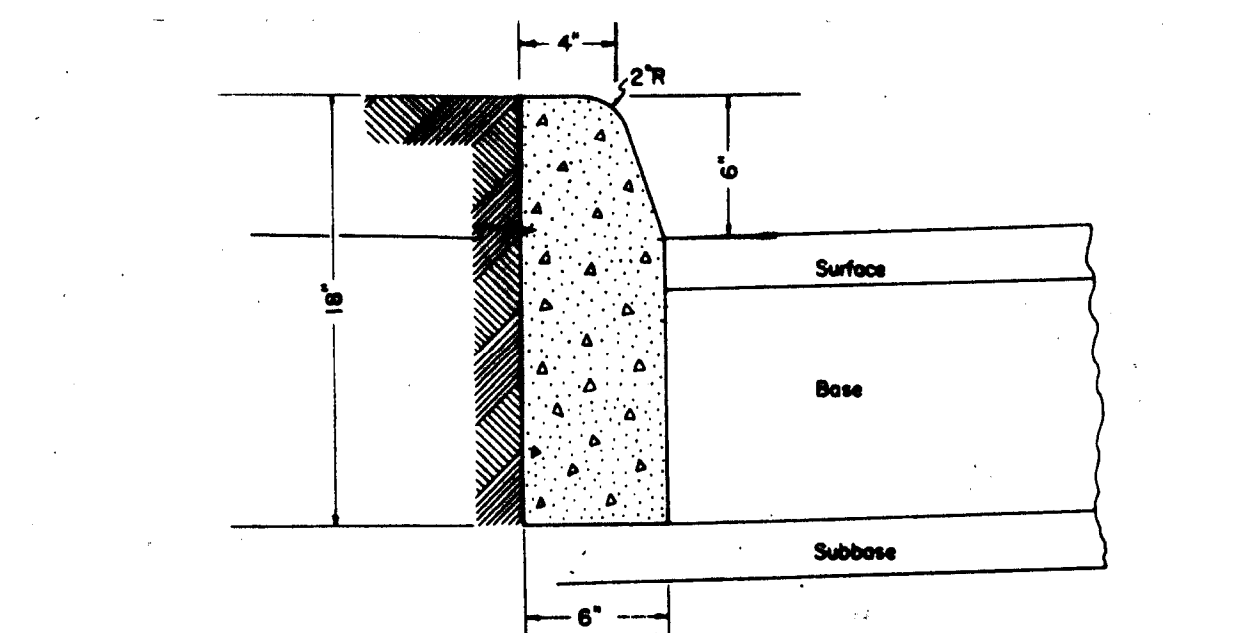
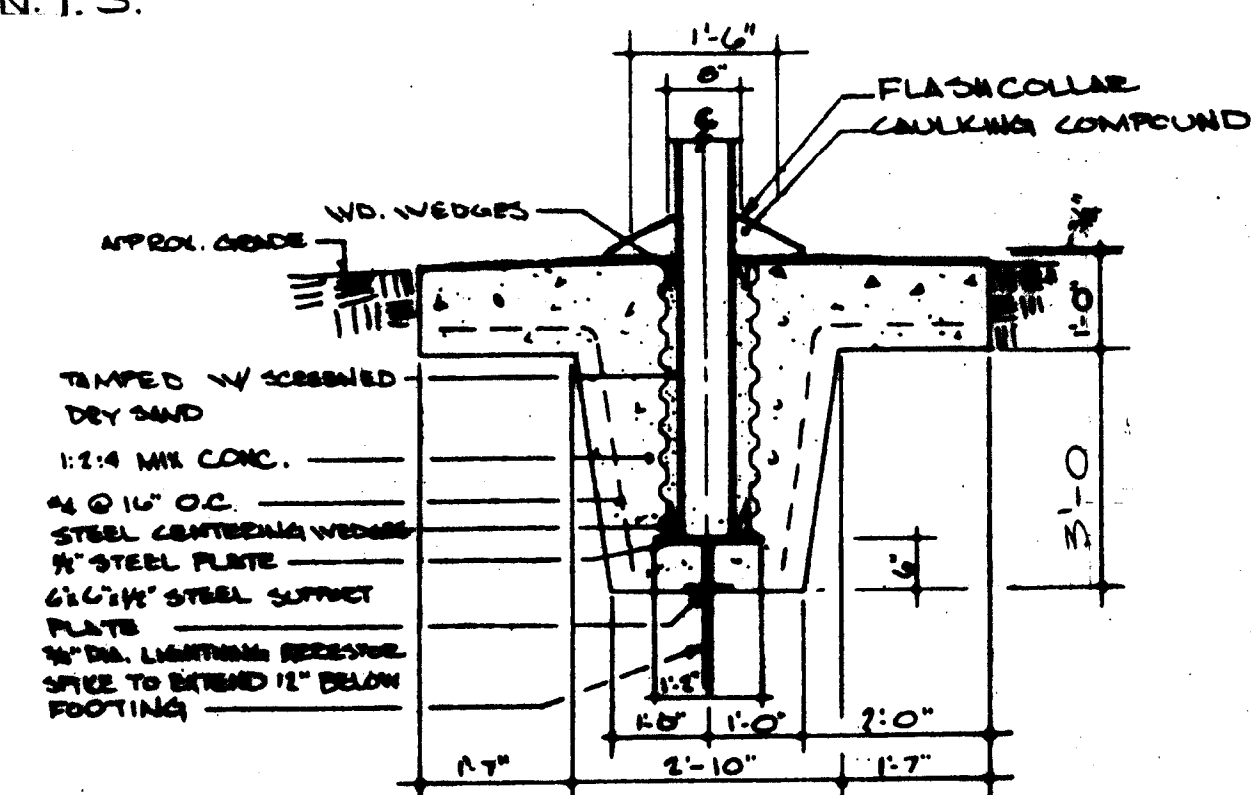
1. CONTRACTOR TO ROUGH GRADE SITE TO CONTOURS SHOWN.
2. GRADE PROPOSED BUILDING AND FUTURE BUILDING PAD ELEVATION TO CONTOUR 1911.33 FOR FUTURE FLOOR ELEVATION OF 1912.5.
3. CONCRETE DRIVEWAYS TO BE GRADED 1' BELOW CONTOURS SHOWN.
4. PARKING LOT AND ACCESS ROAD GRADE 8" BELOW CONTOURS SHOWN, BOTH FOR FUTURE PAVING.
5. INSTALL SILT FENCES AS REQUIRED.
6. SPREAD TOP SOIL OVER GRADING AREAS AS DIRECTED.

EUGENE E. LOHMAH, EMMITT F. YEARY &  
MARY LYNN TATE  
(TANGLEWOOD TRAILER PARK)



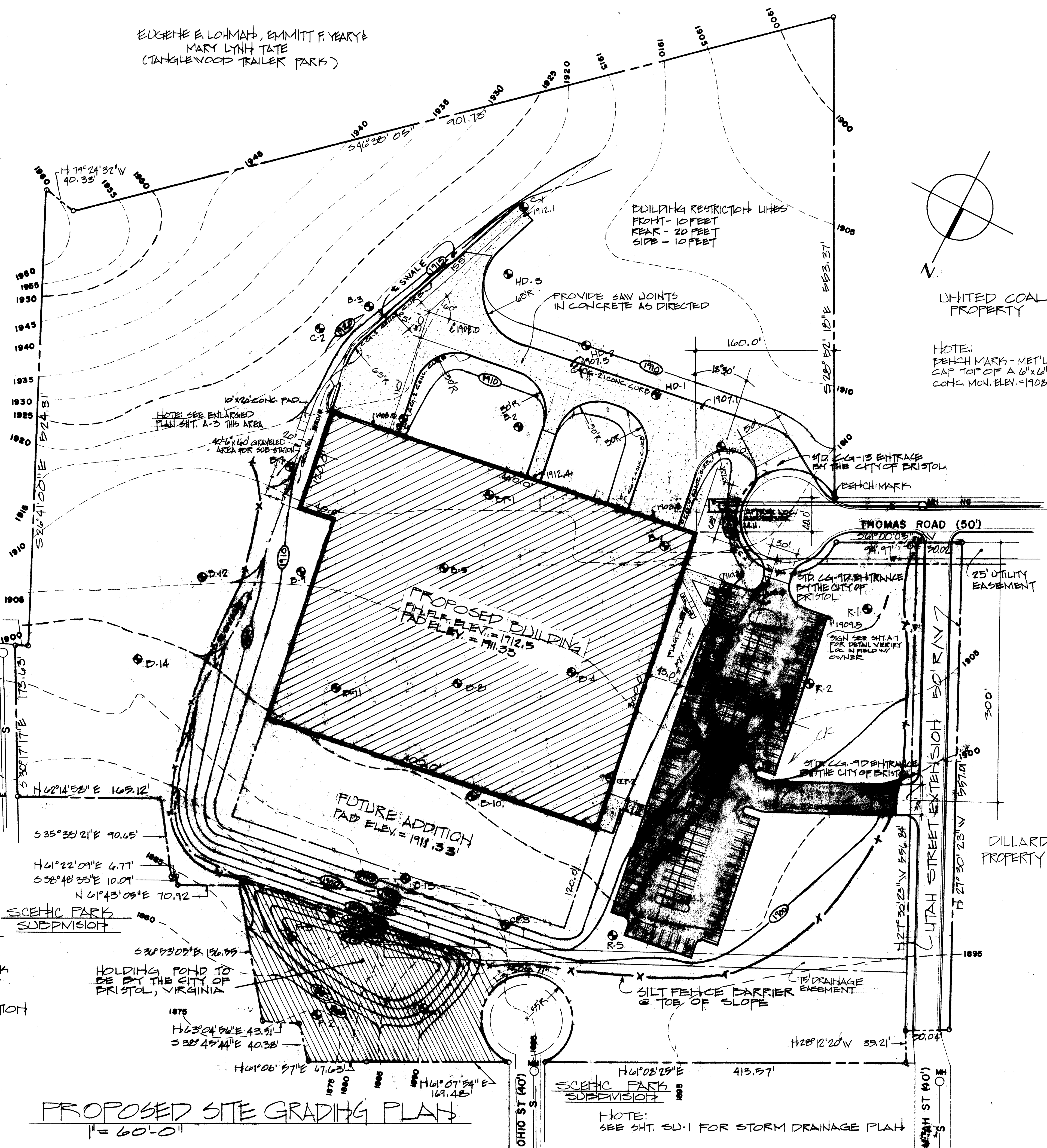
NOTE:  
PARKING STRIPS TO BE PAINTED 1/3" WIDE STRIPE OF APPROVED EXTERIOR PAINT  
TYP ALL STRIPES TO BE PAINTED YELLOW, INCLUDING HANDICAPPED STRIPES & LOGO

**HANDICAPPED PARKING SPACE**  
N.T.S.



**SCENIC PARK SUBDIVISION**

- LEGEND:**
- 1905 --- EXIST. CONTOURS
  - (1910) --- REVISED CONTOURS
  - CONC. DRIVE & WALK
  - ASPHALT PAVEMENT
  - X-X- SILT FENCE BARRIER
  - ⊙-6 TEST BORING LOCATION



**PROPOSED SITE GRADING PLAN**  
1" = 60'-0"

**CAMERON L. WOLFE, JR. AIA**  
architects  
MARION, VIRGINIA



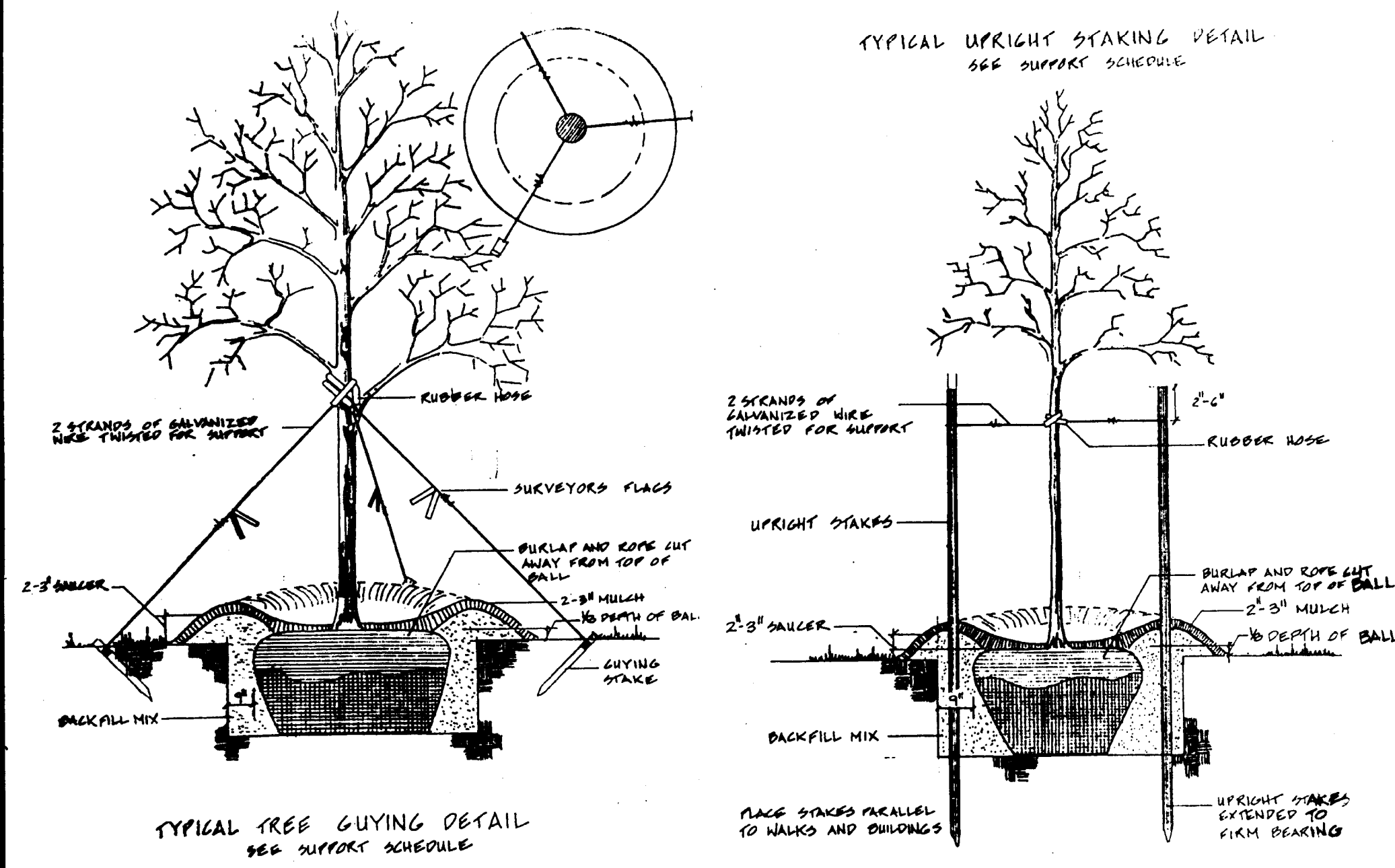
**DRAWING**

SPICER UNIVERSAL JOINT DIVISION  
DANA CORPORATION  
BRISTOL, VIRGINIA

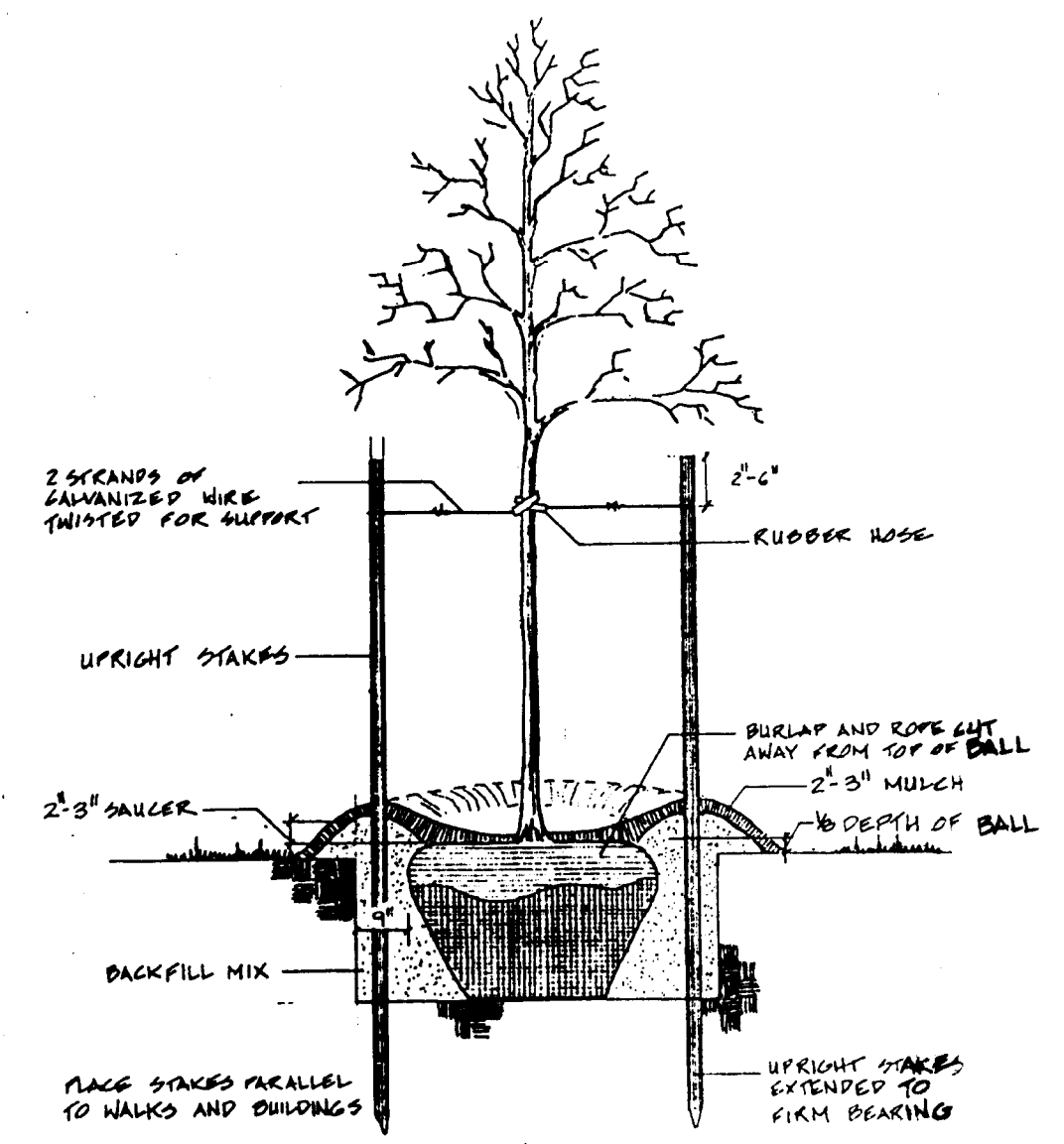
920-B-C-173

4-8-88  
DATE

5746



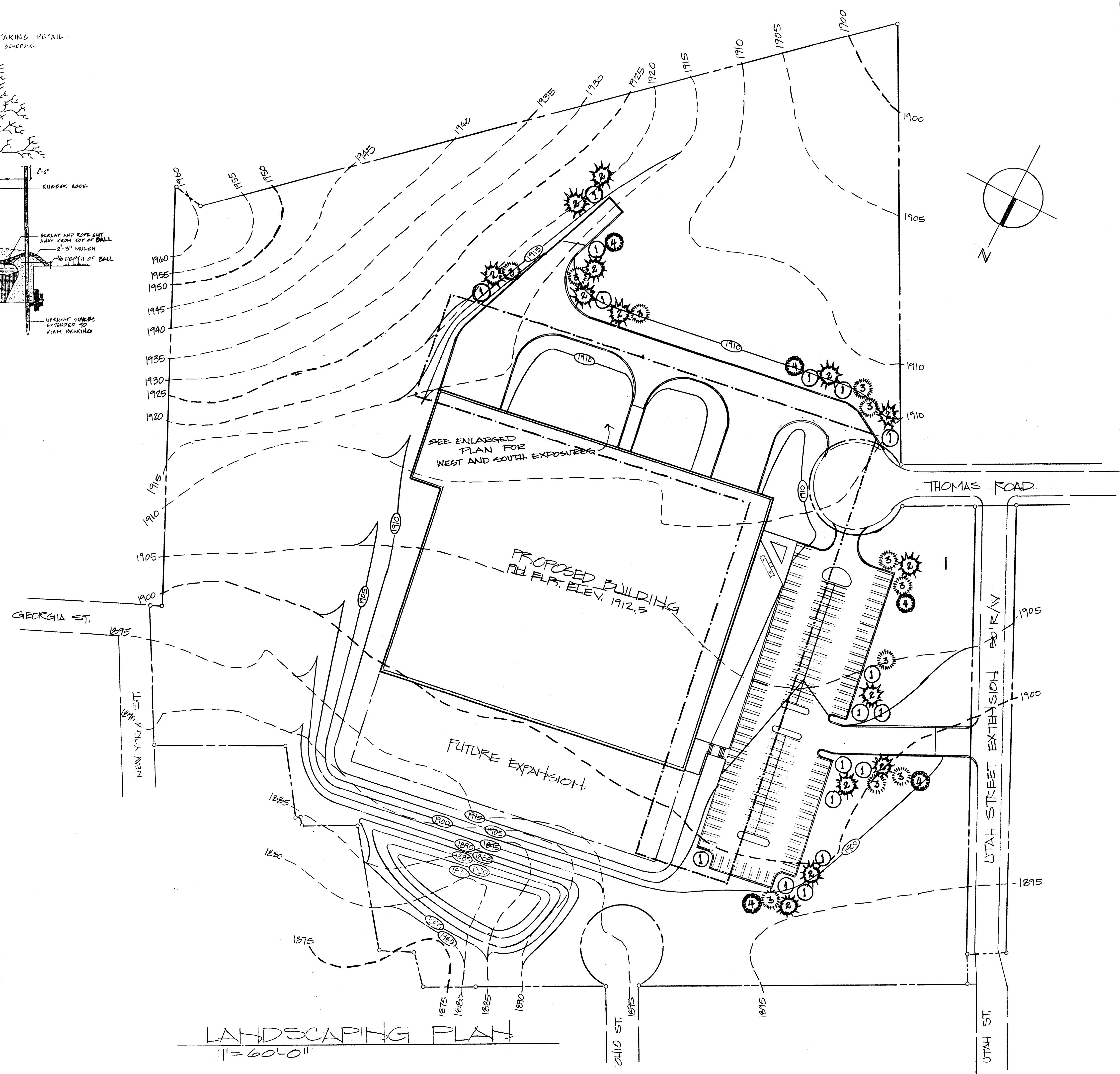
TYPICAL UPRIGHT STAKING DETAIL  
SEE SUPPORT SCHEDULE



TYPICAL TREE GUYING DETAIL  
SEE SUPPORT SCHEDULE

TREE SUPPORT SCHEDULE

Tree Size Height	Tree Size Caliper	Stake	#	Wire or Cable	Turnbuckle	Hose
6-8'	1-1 1/2"	5' Upright	2	14 gauge wire	-	1/2"
8-10'	1 1/2-2"	5 or 6' Upright	2	14 gauge wire	-	1/2"
10-12'	2-2 1/2"	7 or 8' Upright	2	14 gauge wire	-	1/2"
12-14'	2 1/2-3"	2' Guy	3	12 gauge wire	-	1/2"
14-16'	3-4"	2' Guy	3	12 gauge wire	-	3/4"
16-20'	4-6"	30" Guy	3	12 gauge wire	-	3/4"
20' and over	6" and over	Deadmen	3	3/16" Cable	3/8 x 6"	3/4"



LANDSCAPING PLAN  
1" = 60'-0"

**CAMERON L. WOLFE, JR. AIA**  
architects  
MARION, VIRGINIA



DRAWING  
SPICER UNIVERSAL JOINT DIVISION  
DANA CORPORATION  
BRISTOL, VIRGINIA

020-0-CMD  
4-8-88  
DATE

1mm 10  
9 F  
57-46  
COMM

LAWN GRASS PLANTING CHART

DRY APPLICATION

SEEDING MIXTURE: 70% CERTIFIED KENTUCKY 31 TALL FESCUE  
20% CERTIFIED BLUEGRASS  
10% ANNUAL RYE GRASS

RATE: 8 lbs/1000 SQUARE FEET

SLOPES: SAME

MULCH: WHEAT OR OAT STRAW, 65 BALES/ACRE

FERTILIZER: 10-10-10 TO YIELD, 1 1/2 #N/1000SQ. FT.

LIME: 50 LBS. 1000 SQ. FT.

WET APPLICATION

SEED MIXTURE, RATE: SAME AS DRY

FERTILIZER: SAME AS DRY

WATER, SEED, FERTILIZER MIX: 1000 GAL./ACRE

MULCH: STRAW OR CELLULOSE FIBER WHEN APPROVED AT 1500 LBS. ACRE

SEEDING PERIODS: MARCH 1 TO MAY 15  
AUGUST 1 TO NOVEMBER 15

SOD MATERIALS

TURF-GRASS SOD: 70%-80% TURF-TYPE TALL FESCUE (REBEL/FALCON EQUIVALENT)

CUT: MACHINE 3/4" UNIFORM

TIME LIMITATION: 36 HOURS

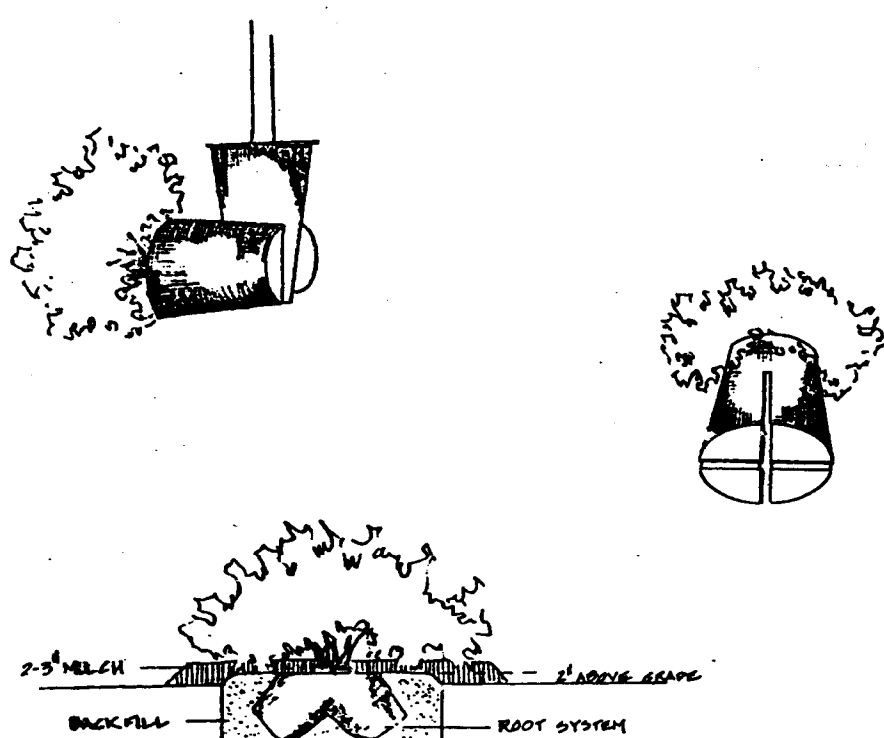
SODING PERIOD: MARCH 1 THRU DECEMBER 1

NOTES:

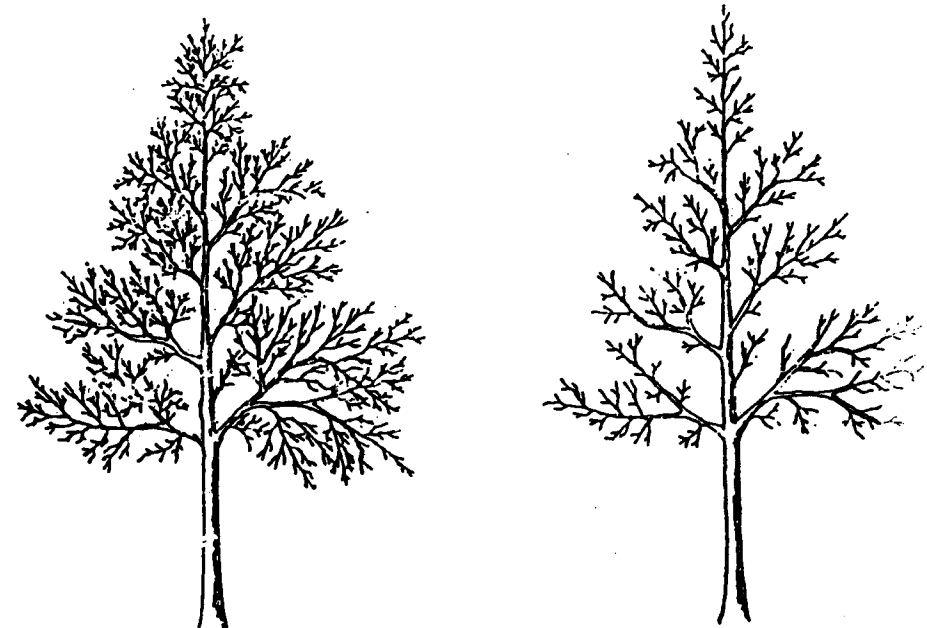
- GRASS ALL AREAS DISTURBED BY CONSTRUCTION.
- ALL AREAS NOT DISTURBED BY CONSTRUCTION SHALL BE CLEANED OF ALL UNDERGROWTH. GRADES SHALL BE SMOOTHED AS REQUIRED AND TOP SOIL PLACED WHERE NEEDED AND AREAS RESEED AS SPECIFIED IN CHART.

PLANTING PROCEDURES FOR POT BOUND CONTAINER GROWN PLANTS

- REMOVE THE PLANT EITHER BY CUTTING OR INVERTING THE CONTAINER.
- USE A KNIFE OR SHARP BLADE TO CUT THROUGH BOTTOM HALF OF THE ROOT BALL.
- DIFFERENTIALLY THE ROOT BALL TO BRING THE ROOT SYSTEM CLOSER TO THE SURFACE.
- PLASTIC SHRUBS 1/2" ABOVE THE EXISTING GRADE.



PRUNING VERTICAL FOR B+B TREES



- PRUNE TREES JUST AFTER DIGGING
- THIN TREES BY REDUCING APPROXIMATELY 30% OF THE CROWN
- DO NOT CUT THE MAIN LEADER
- IF SIDE BRANCHES ARE CUT TO BALANCE TREE MAKE ALL CUTS FLUSH WITH A LATERAL BRANCH

PLANT VARIETY LIST

PLT. #	COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE	TYPE
01	SUGAR MAPLE	ACER SACCHARUM	17	2-2.5 IN	B&B
02	WHITE PINE	PINUS STROBUS	14	7/8'	B&B
03	MIDENHAIR TREE *	GINKGO BILOBA	11	1.5-2 IN	B&B
04	CANADIAN HEMLOCK	TSUGA CANADENSIS	5	7/8'	B&B
05	JAPANESE BLACK PINE	PINUS TRUMBERGII	11	7/8'	B&B
06	BRADFORD FLOWERING PEAR	FRUS CALLERYAMA 'BRADFORD'	38	6/7'	CONT
07	FOSTER NO. 2 HOLLY **	ILEY 'FOSTER NO. 2'	3	5/6'	B&B
08	'OLD GOLD' JUNIPER	JUN. CHIMENSIS 'ARMSTRONG AUREA'	28	24-30 IN	B&B
09	RHODO. 'NOVA ZEMBLA'	RHODODENDRON 'NOVA ZEMBLA'	2	30-36 IN	CONT
10	NICK'S COMPACT JUNIPER	JUN. CHIN. PFITZER 'NICKS COMPACT'	35	3-36 IN	B&B
11	MAIDEN GRASS	MISCANTHUS SINENSIS GRACILLINUS	27	118-24 IN	CONT or BB
12	PURPLELEAF WINTERCREEPER	EUDNYMUS COLORATUS	620	2-1/2 POTS	CONT
13	GREEN SARGENT JUNIPER	JUN. CHIN. 'SARGENTI VIRIDIS'	400	10-12 IN	CONT
14	DWARF BURNINGBUSH	EUONYMUS ALATUS COMPACTA	12	24-30 IN	B&B

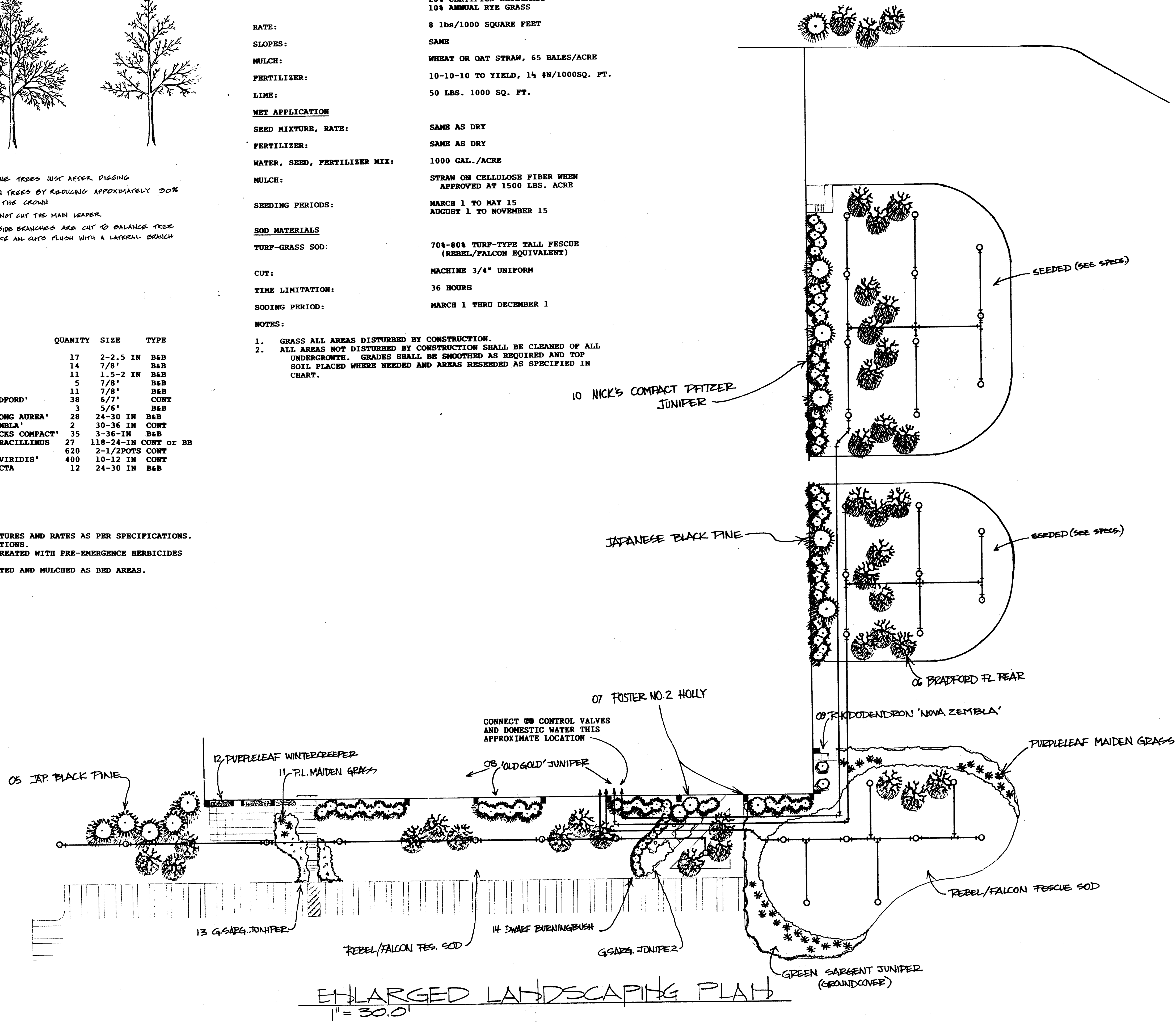
REBEL/FALCON FESCUE SOD

NOTES:

- \* MALE TREES ONLY
  - \*\* 2 FEMALE, 1 MALE
- ALL DISTURBED AREAS SHOULD BE RESTORED USING SEEDING MIXTURES AND RATES AS PER SPECIFICATIONS.
  - ALL TREES SHOULD BE STAKED AND MULCHED AS PER SPECIFICATIONS.
  - ALL MASSED PLANTINGS (SHRUBS AND GROUNDCOVERS) WILL BE TREATED WITH PRE-EMERGENCE HERBICIDES AND MULCHED AS PER SPECIFICATIONS.
  - ALL AREAS NEXT TO FOUNDATION (UNDER OVERHANG) TO BE TREATED AND MULCHED AS BED AREAS. (SEE SPECIFICATIONS)

LAWN WATERING SYSTEM

- ALL EQUIPMENT EQUAL TO RAINBIRD OR TORO SUPER 600 SERIES, POP-UP, PART CIRCLE OR FULL CIRCLE AS REQUIRED
- ALL UNDERGROUND PIPING P.V.C. AS RECOMMENDED BY THE MANUFACTURER
- INSTALLATIONS & FINAL LAYOUT AS RECOMMENDED BY THE MANUFACTURER
- CONTROLLER EQUAL TO TOR 4 STATION SERIES 1C COMPLETE WITH COMPANION SERIES 250/260 VALVES
- FINAL LAYOUT, DESIGN & INSTALLATION SHALL MEET ALL REQUIREMENTS & RECOMMENDATIONS OF THE EQUIPMENT MANUFACTURER



ENLARGED LANDSCAPING PLAN  
1" = 30.0'

CAMERON L. WOLFE, JR. AIA  
architects MARION, VIRGINIA



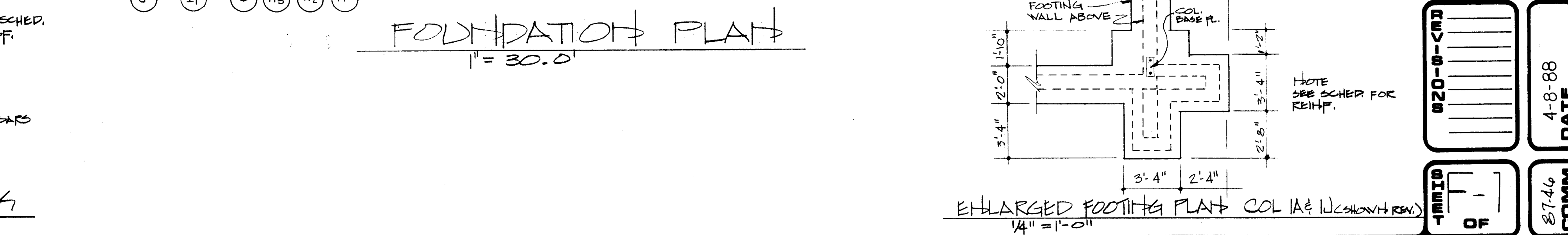
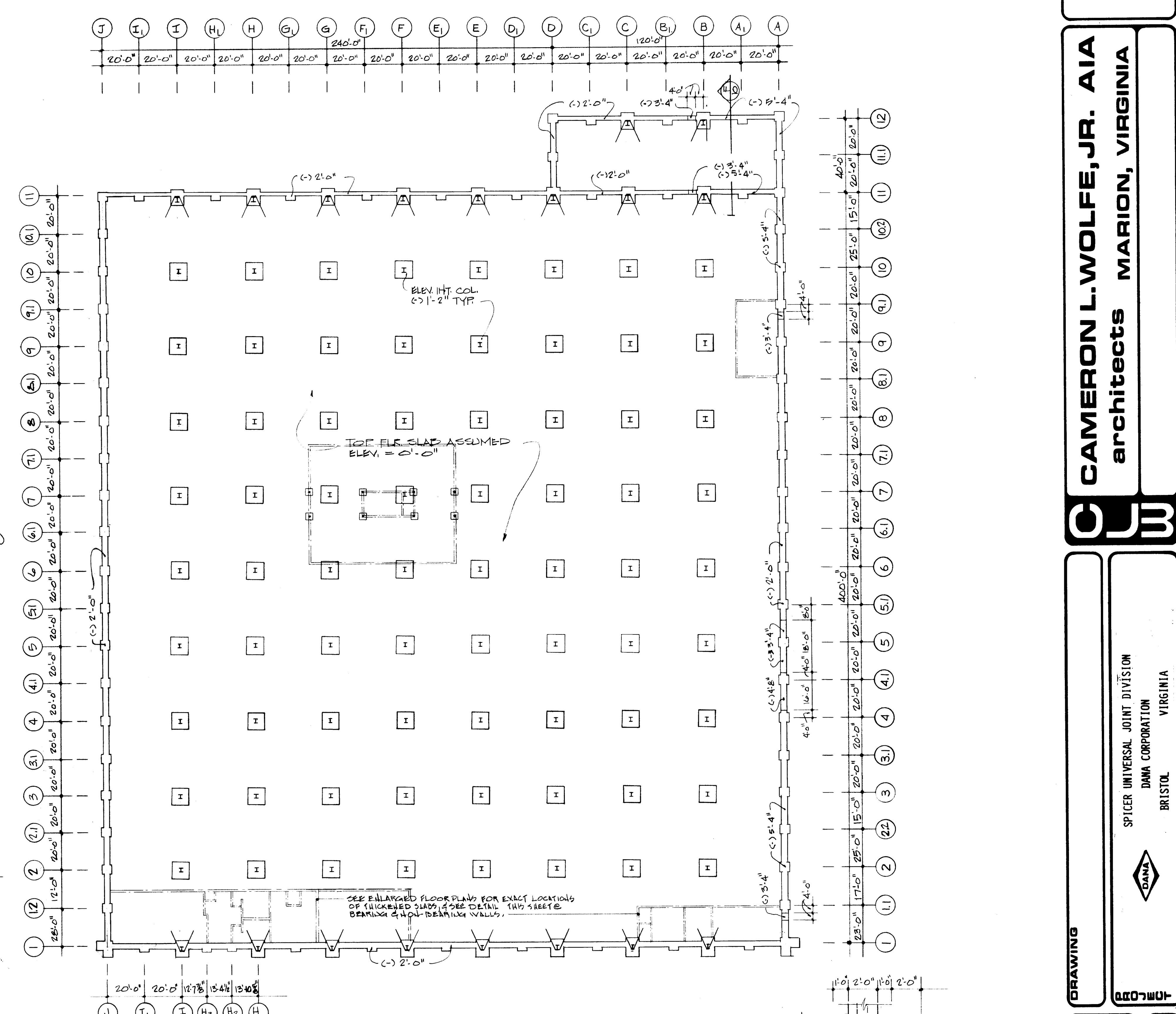
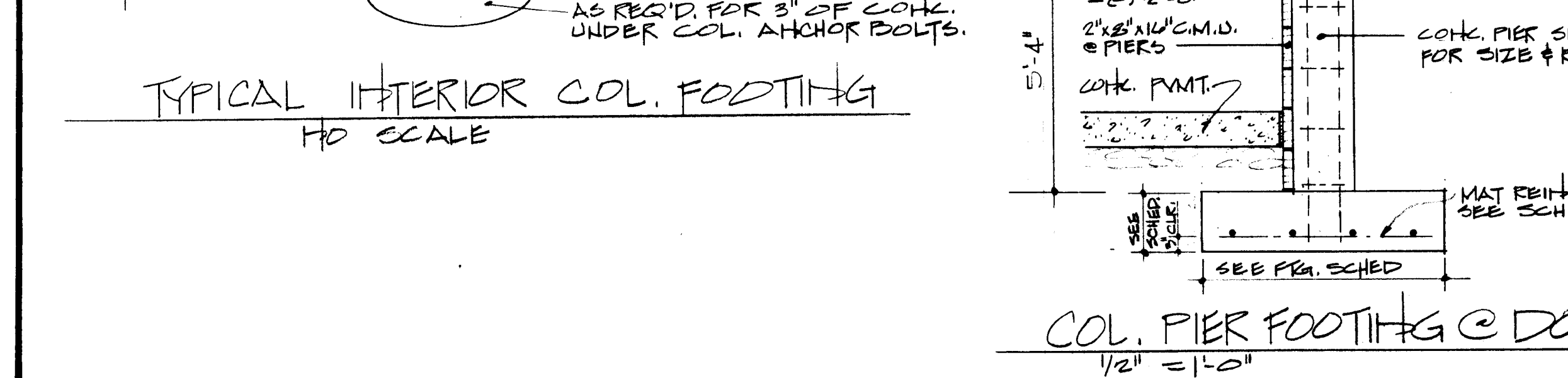
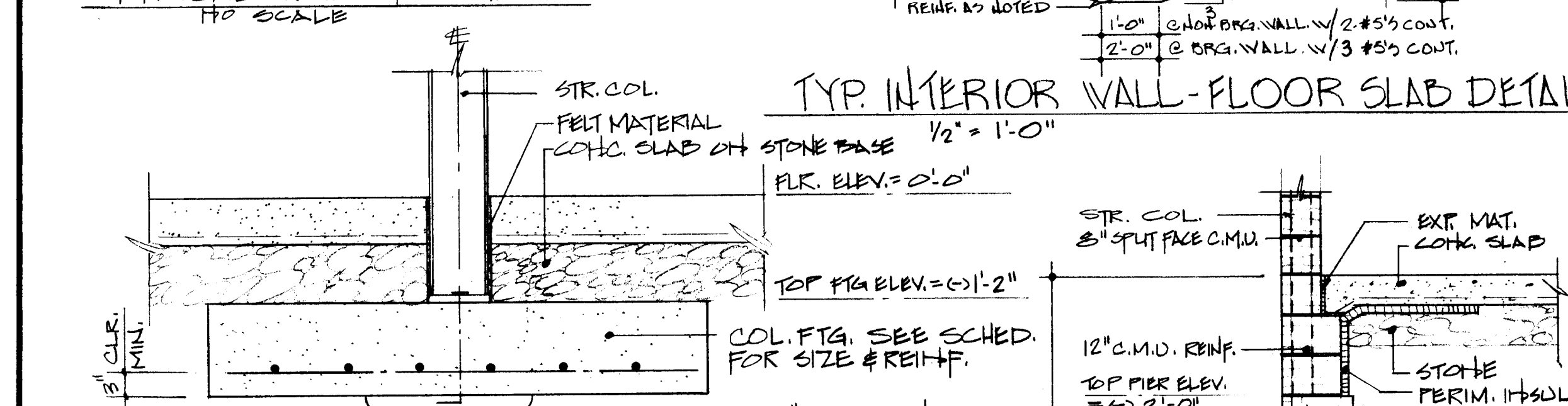
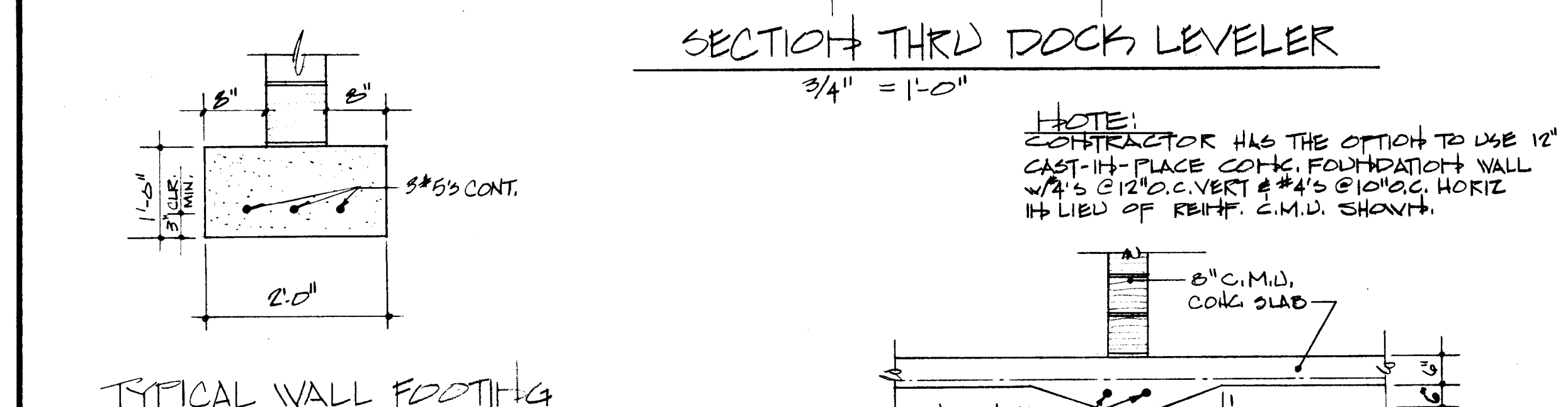
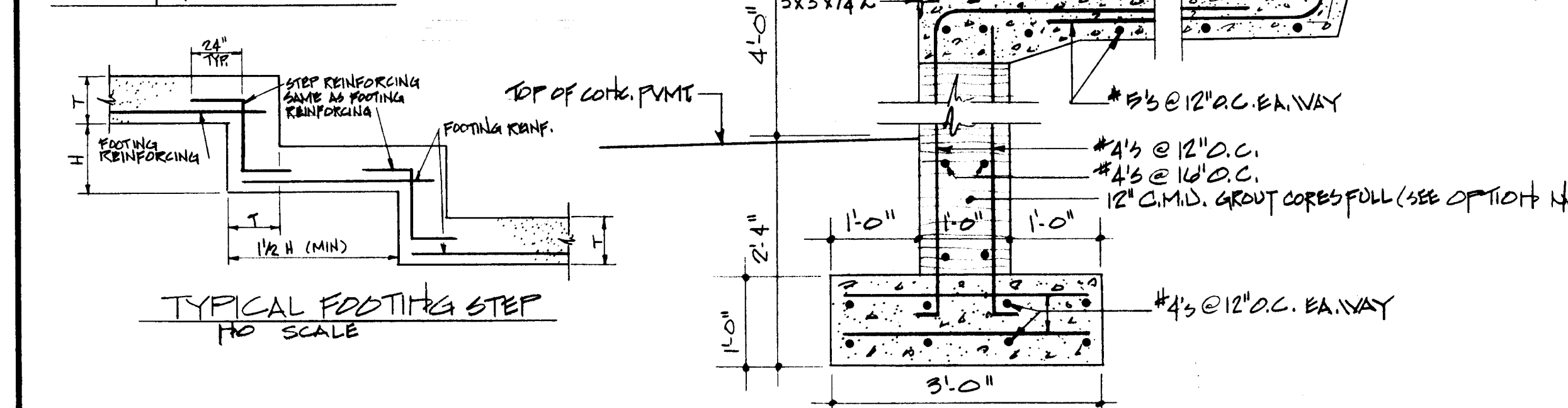
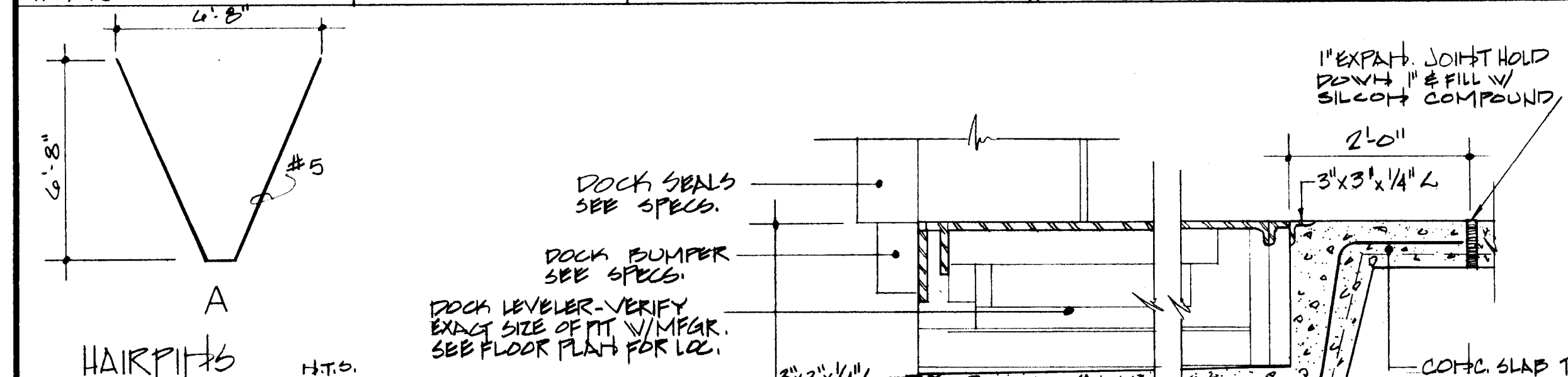
DRAWING  
SPICER UNIVERSAL JOINT DIVISION  
DANA CORPORATION  
BRISTOL VIRGINIA



20-0-C-111  
4-8-88  
DATE

LS-2  
OF  
57-46  
COMM

FOOTING SCHEDULE			PIER SCHEDULE			
COLUMN NO.	FOOTING SIZE	MAT. REBARS EQUAL SPACED	SIZE	VERTICAL BARS	TIES	HAIRPINS
1B, 1C, 1D, 1E, 1F, 1G, 1H, 1I, 1J, 1K, 1L, 1M, 1N, 1O, 1P, 1Q, 1R, 1S, 1T, 1U, 1V, 1W, 1X, 1Y, 1Z	3'-6" x 5'-6" x 1'-0"	#5 @ 12" O.C. EA. WAY BOTTOM				A
11E, 11F, 11G, 11H, 11I	3'-6" x 3'-6" x 1'-0"	3 #5'S EA. WAY BOTTOM				A
11C, 11D	4'-0" x 4'-0" x 1'-0"	4 #5'S EA. WAY BOTTOM				A
11B	4'-0" x 4'-0" x 1'-0"	4 #5'S EA. WAY BOTTOM	1'-0" x 1'-0" x 3'-4"	4 #5'S	#3 @ 12" O.C.	A
1A1, 1B1, 1C1, 1D1, 1E1, 1F1, 1G1, 1H1, 1I1, 1J1, 1K1, 1L1, 1M1, 1N1, 1O1, 1P1, 1Q1, 1R1, 1S1, 1T1, 1U1, 1V1, 1W1, 1X1, 1Y1, 1Z1	2'-0" x 2'-0" x 1'-0"	3 #4'S EA. WAY BOTTOM				
12A1	2'-0" x 2'-0" x 1'-0"	3 #4'S EA. WAY BOTTOM	1'-0" x 1'-0" x 3'-4"	4 #5'S	#3 @ 12" O.C.	
11A1	2'-0" x 2'-0" x 1'-0"	3 #4'S EA. WAY BOTTOM	1'-0" x 1'-0" x 3'-4"	4 #5'S	#3 @ 12" O.C.	
10B THRU 10I, 9D THRU 9I, 8D THRU 8I, 7D THRU 7I, 6D THRU 6I, 5D THRU 5I, 4D THRU 4I, 3D THRU 3I, 2D THRU 2I	5'-6" x 5'-6" x 1'-0"	6 #5'S EA. WAY BOTTOM				
75A, 76A, 77A, 78A, 79A, 80A, 81A, 82A, 83A, 84A, 85A, 86A, 87A, 88A, 89A, 90A, 91A, 92A, 93A, 94A, 95A, 96A, 97A, 98A, 99A, 100A	4'-0" x 4'-0" x 1'-0"	4 #5'S EA. WAY BOTTOM				
11A, 2A, 21A, 3A, 31A, 4A, 41A, 5A, 51A, 6A, 61A, 7A, 71A, 8A, 81A, 9A, 91A, 10A, 101A	4'-0" x 4'-0" x 1'-0"	4 #5'S EA. WAY BOTTOM	1'-0" x 1'-0" x 3'-4"	4 #5'S	#3 @ 12" O.C.	
11A, 12A, 5A	4'-0" x 4'-0" x 1'-0"	4 #5'S EA. WAY BOTTOM	1'-0" x 1'-0" x 3'-4"	4 #5'S	#3 @ 12" O.C.	
4.1A	4'-0" x 4'-0" x 1'-0"	4 #5'S EA. WAY BOTTOM	1'-0" x 1'-0" x 3'-4"	4 #5'S	#3 @ 12" O.C.	
11.1D, 12D	3'-0" x 3'-0" x 1'-0"	3 #5'S EA. WAY BOTTOM				
12B	5'-6" x 5'-6" x 2'-6"	6 #5'S EA. WAY TOP & BOTTOM	1'-0" x 1'-0" x 3'-4"	4 #5'S	#3 @ 12" O.C.	A
12C	5'-6" x 5'-6" x 2'-6"	6 #5'S EA. WAY TOP & BOTTOM				A
1A, 1J	4'-0" x 4'-0" x 1'-0"	SEE ENLARGED PLAN THIS SHEET				



**CAMERON L. WOLFE, JR. AIA**  
architects  
MARION, VIRGINIA



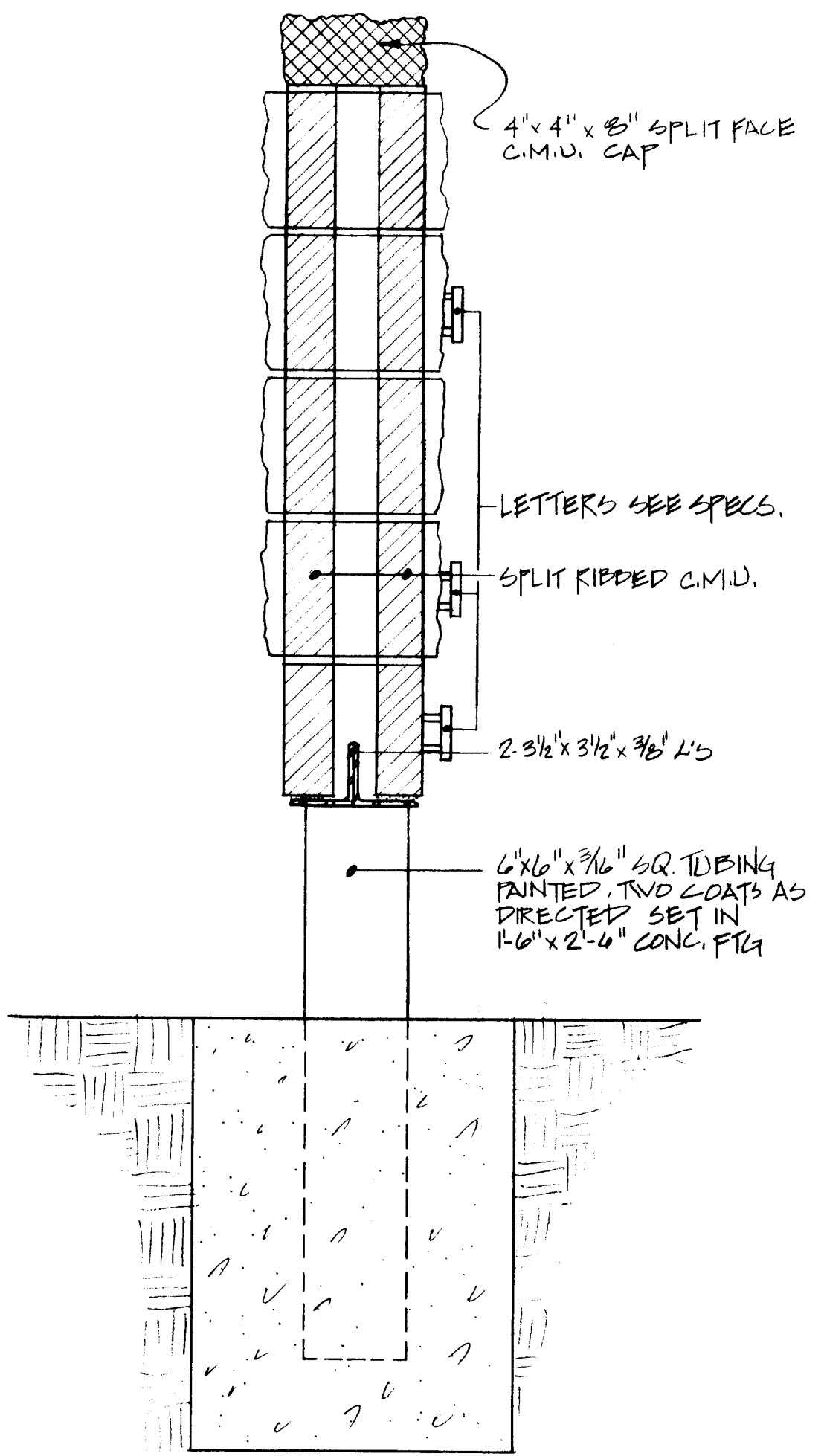
SPICER UNIVERSAL JOINT DIVISION  
DANA CORPORATION  
BRISTOL VIRGINIA



DRAWING  
020-8-CMD

4-8-88  
DATE

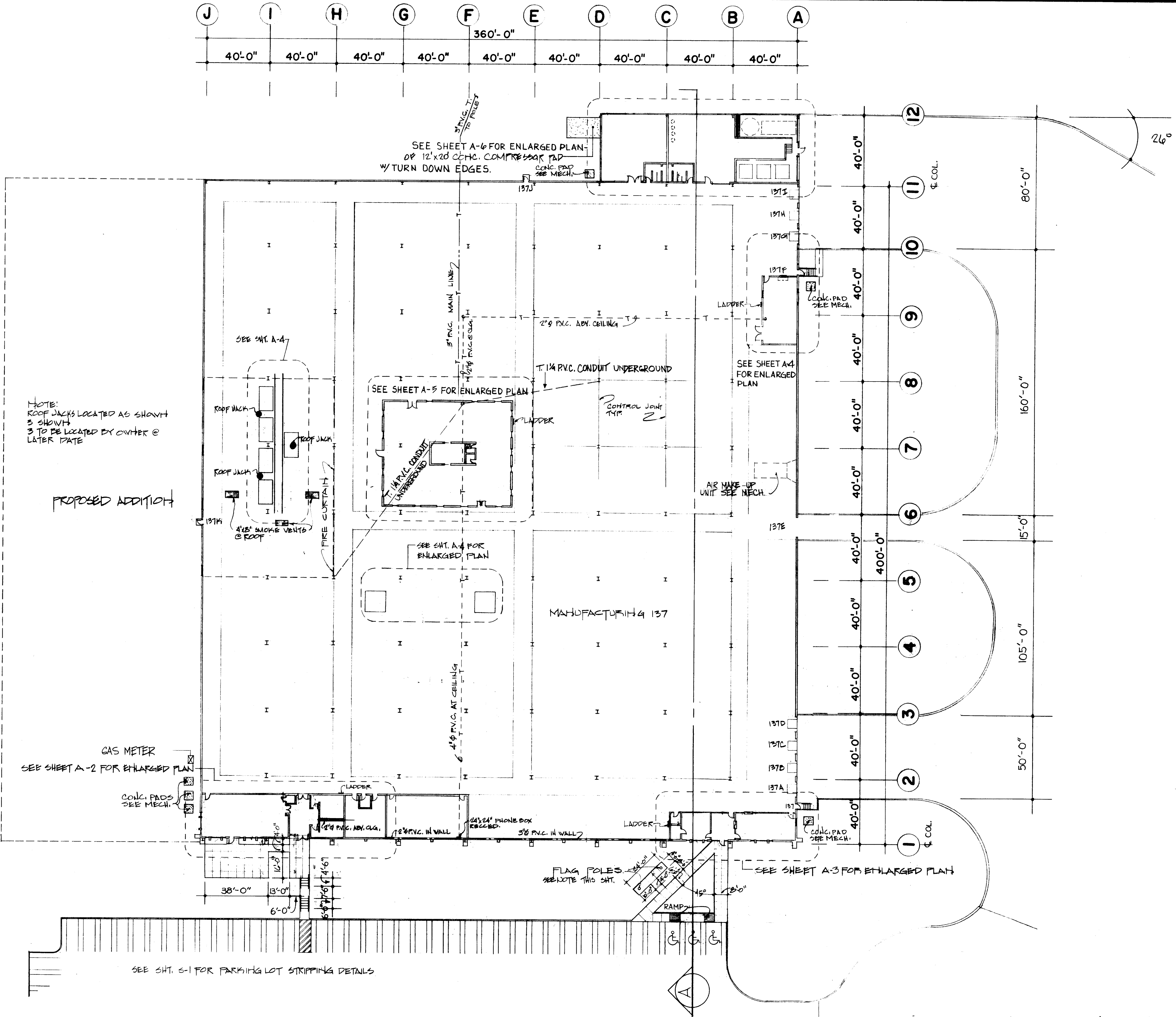
87.46  
COMM.



① SIGHT DETAIL  
1/2" = 1'-0"

FURNISH AND INSTALL 6 - 24" ROUND ROOF JACKS, ABOVE ROOF, DOUBLE WALL CONSTRUCTION, COMPLETE WITH FLASHING, CURB, COLLAR AND RAIN CAP. EXTEND 2'-0" BELOW ROOF, LOCATED AS DIRECTED BY OWNER.

HEAT AND SMOKE VENTS EQUAL TO MASCO HD-PDL, 4' x 8', UL & FM APPROVED WITH FIRE-BURN SCREEN, CLEAR OVER WHITE PANELS, 280°F FUSIBLE LINK (VERIFY), SUITABLE FOR SPECIFIED ROOF.



NOTE:  
ROOF JACKS LOCATED AS SHOWN  
3 SHOWN  
3 TO BE LOCATED BY OWNER @  
LATER DATE

PROPOSED ADDITION

**MASTER FLOOR PLAN**

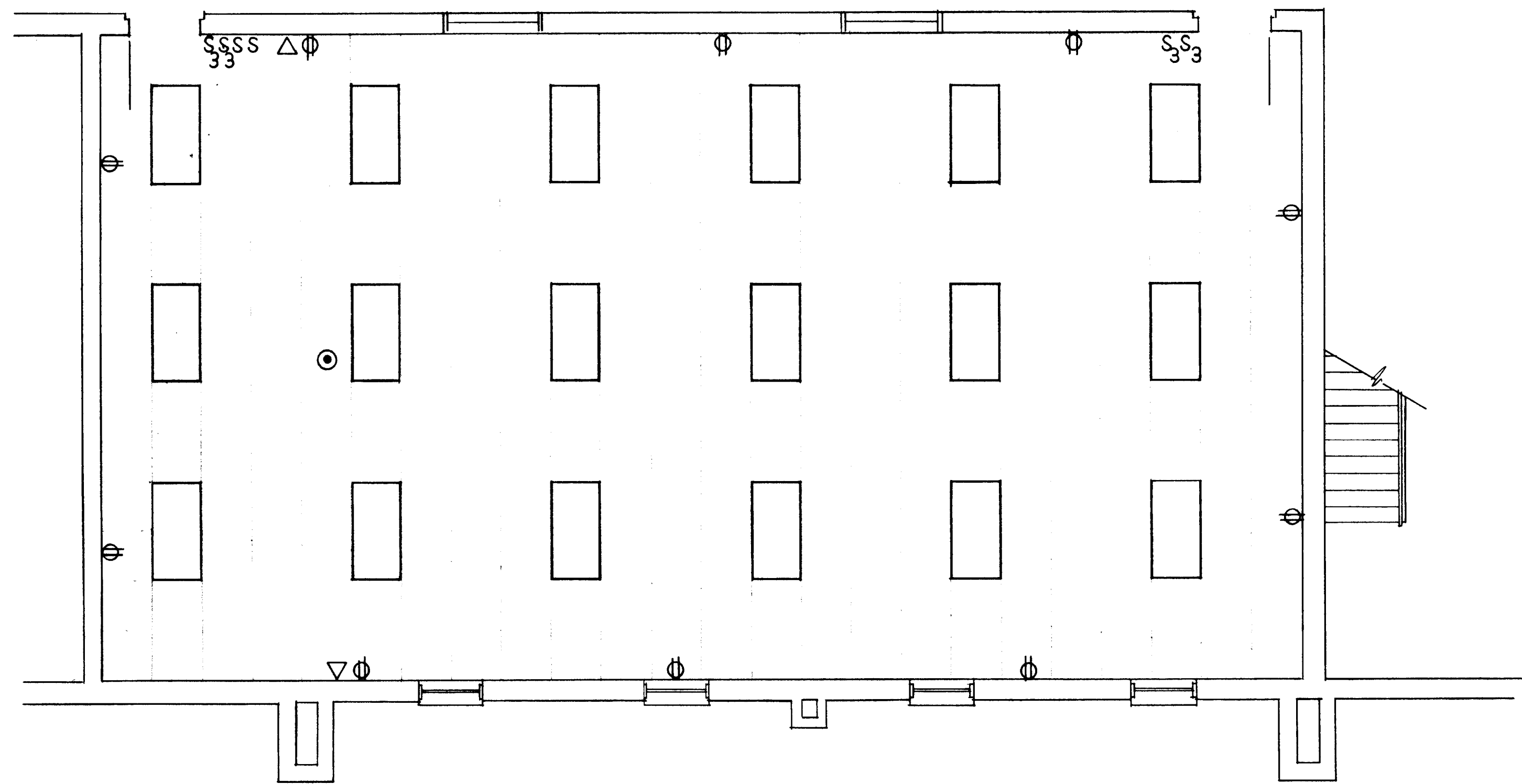
FLAGPOLES - AMERICAN OR EQUAL. BRONZE GROUND SET, CONE TAPERED FLAGPOLES, EXPOSED HEIGHT 35 FEET, COMPLETE WITH BALL TRUCK, BAYARDS, CLEATS, FLASHING COLLAR AND FOUNDATION TUBE.

**CAMERON L. WOLFE, JR. AIA**  
architects MARION, VIRGINIA

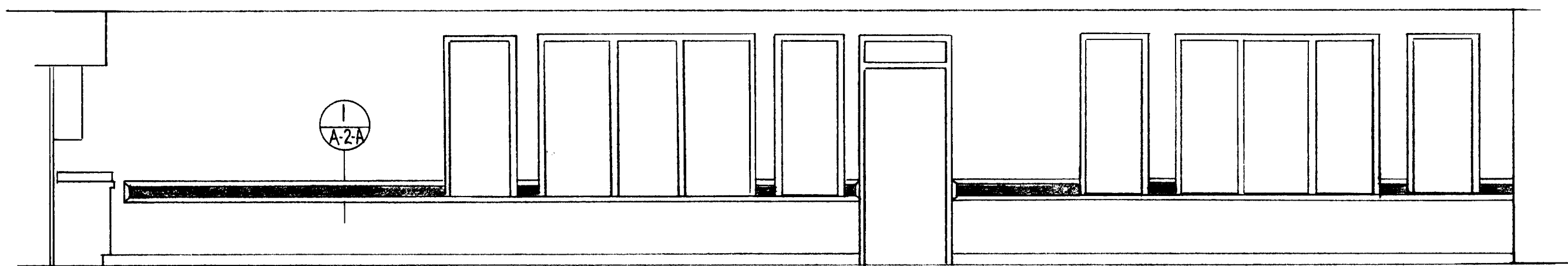
DRAWING  
SPICER UNIVERSAL JOINT DIVISION  
DANA CORPORATION  
BRISTOL VIRGINIA

820-B-C-83  
4-8-88  
DATE  
A-1  
57-46  
COMM.

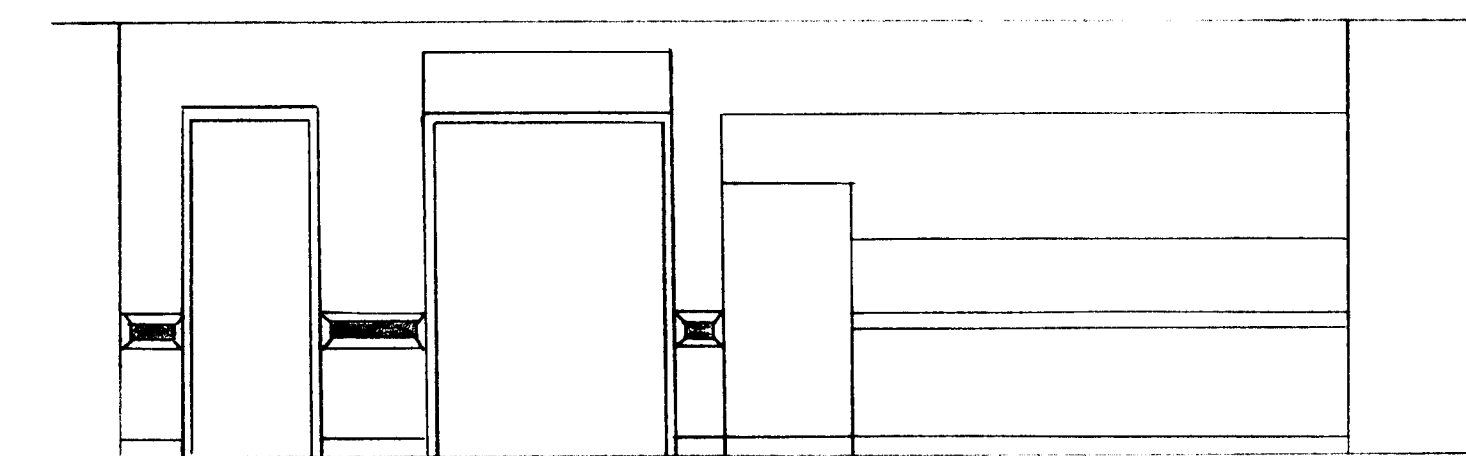




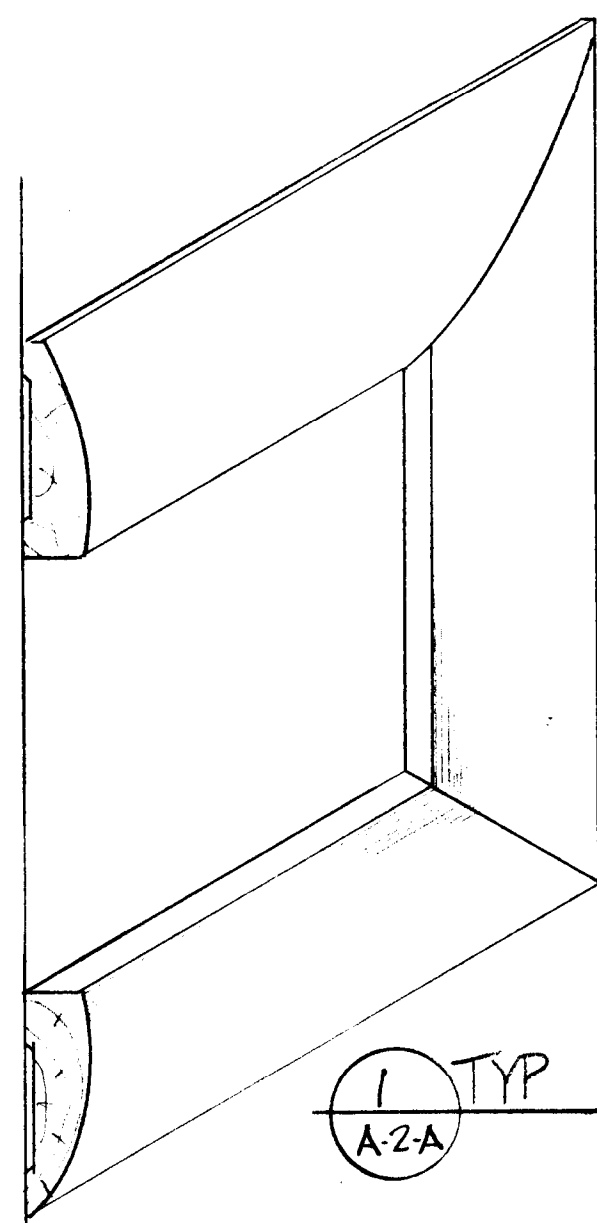
PARTIAL PLAN @ TRAINING ROOM - POWER & LIGHTING  
 1/4" = 1'-0"



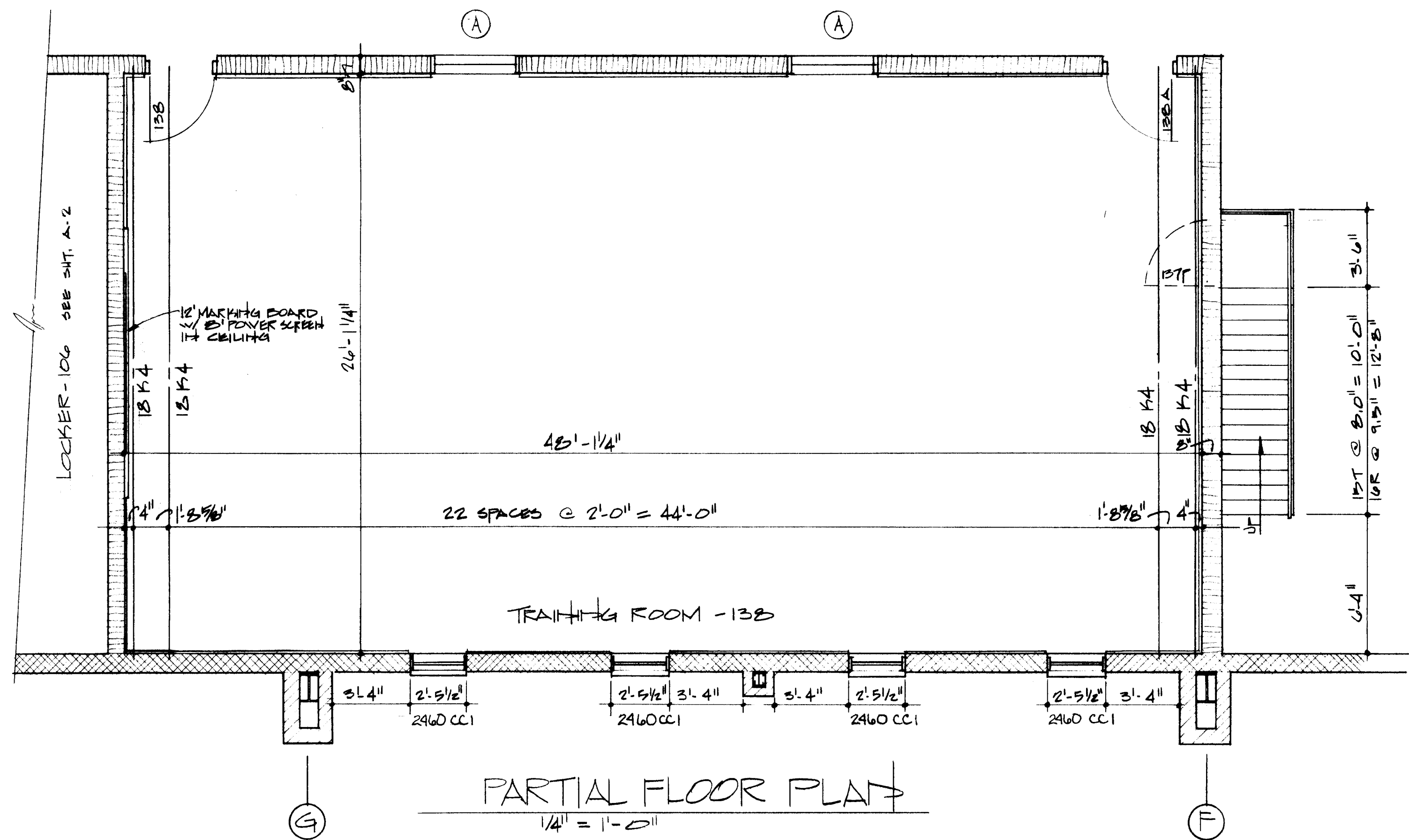
WEST WALL @



SOUTH WALL @



TYP CHAIR RAIL - EMPLOYEE BREAKROOM  
 NO SCALE

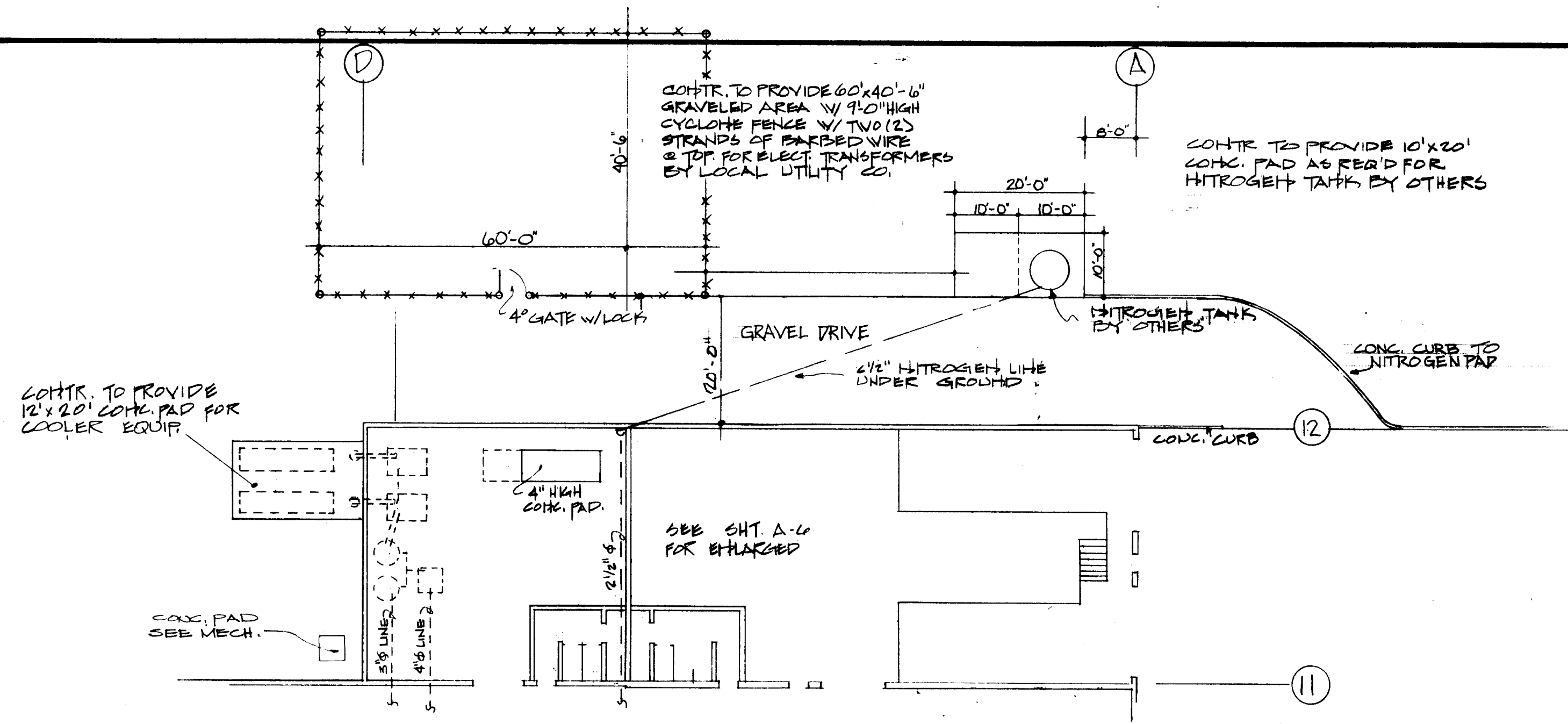


PARTIAL FLOOR PLAN  
 1/4" = 1'-0"

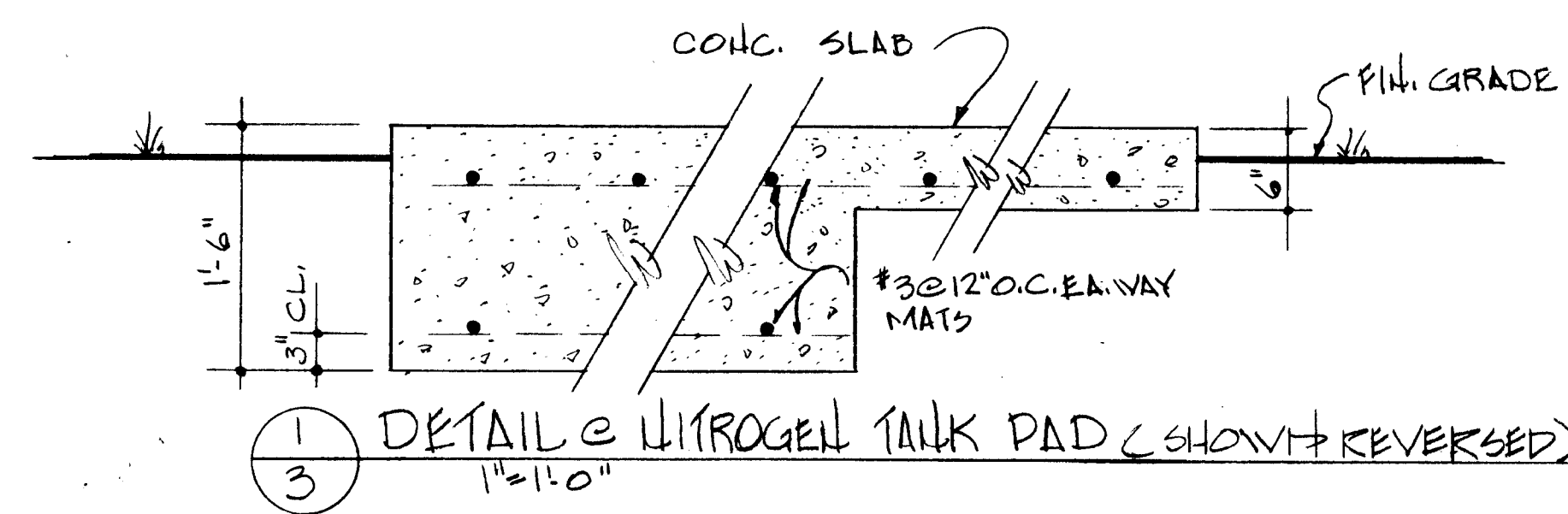
**CAMERON L. WOLFE, JR. AIA**  
 architects  
 MARION, VIRGINIA

DRAWING **TRAINING ROOM C.O.'S #6 & #7**  
 SPICER UNIVERSAL JOINT DIVISION  
 DANA CORPORATION  
 BRISTOL VIRGINIA

020-0-CMD  
 A-2A  
 OF  
 07-46  
 COMM  
 DATE



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



1  
3  
DETAIL of NITROGEN TANK PAD (SHOWN REVERSED)  
1/2" = 1'-0"

CYCLOPE FENCE TO BE EQ. TO 'ARMORLINK' MFG. BY PAGE WILSON. CORR. W/ 2.375" O.D. LINE POST, 2.515" CORNER POST SET IN 1'-0" x 2'-0" OF ASTM C-94 CONCRETE. TOP & BOTTOM RAILS TO BE 1.66" O.D., EXTENDED OUT ARMS TO ACCOMMODATE TWO STRANDS OF ASTM A 665 BARBED WIRE. 2" MESH WOVEN CHAIN LINK FABRIC 6 GA. ALUM. STL. WIRE ASTM A 441. GATE POST TO BE 2.515" O.D. W/ HARDWARE OF MALLEABLE HOT DIP GALV. HINGES OF ROLL & COCKET DESIGN W/ PULL 160° SWING. DOUBLE GATE LATCH W/ PROVISIONS FOR PADLOCK, PADLOCK BY OTHERS. TIE WIRES FOR SECURING FABRIC TO RAILS & POST 6 GA. ALUM. ALLOY; HOT RINGS FOR SECURING BARBED WIRE 12 GA. ALUM. ALLOY WIRE.

DOCKLEVELERS - DOCK BUMPERS

MECHANICAL SERIES:  
ADJUSTABLE DOCKLEVELERS TO BE 8' LONG X 6' WIDE, 40,000 LB. CAPACITY PER ANSI MH 14.1-84. TO BE FULLY MECHANICAL, REQUIRING NO MANUAL LIFTING TO OPERATE. TO BE SPRING COUNTER-BALANCED. LIP TO AUTOMATICALLY EXTEND. TO HAVE MINIMUM 12" LIP PROJECTION BEYOND BUMPERS. HINGED LEGS TO PROVIDE FULL RATED CAPACITY SUPPORT AT DOCK LEVEL. TO ALLOW LOWERING OF RAMP BELOW DOCK LEVEL WITHOUT EXTENDING LIP. FULL WORKING (SERVICE) RANGE YELLOW TOE GUARDS AND "L" SHAPE MOULDED RUBBER BUMPERS. TO MEET OR EXCEED OSHA REQUIREMENTS, ANSI MH 14.1-84 STANDARD AND CS 202-56 STANDARDS. TO BE KELLEY MODEL M638K OR APPROVED EQUAL.

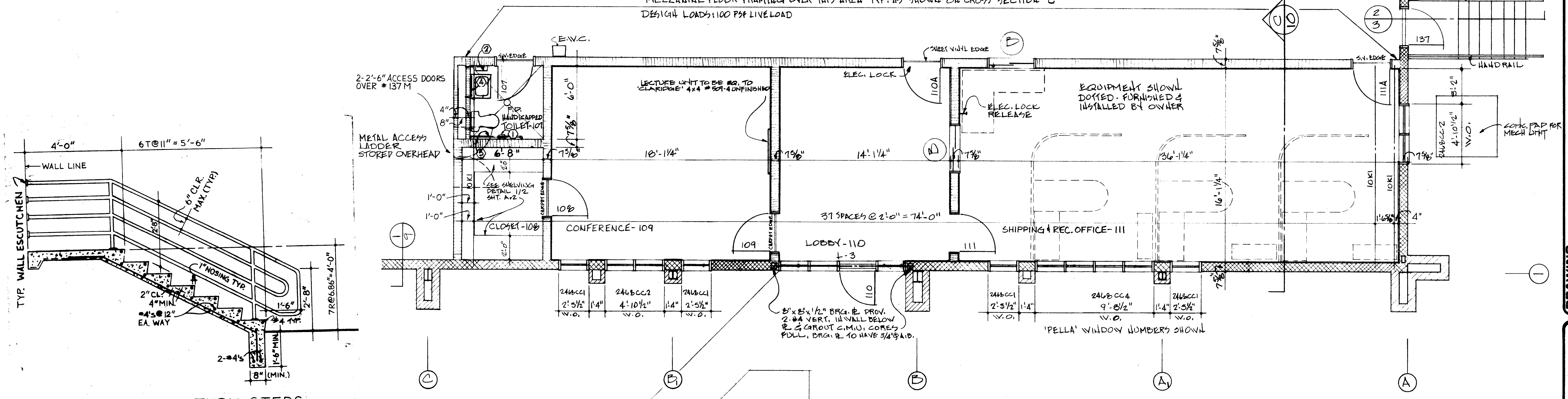
FURNISH AND INSTALL DOCK BUMPERS AT DOCK LEVELERS. IMPACTOR BUMPERS SHALL BE MOLDED OF 4" THICK HIGH DUROMETER RUBBER IMPREGNATED WITH NYLON AND RAYON FIBERS TO RESIST TEARING. IMPACT AREA SHALL BE "L" SHAPED FOR SPECIFIED DOCK LEVELERS. INSTALL WITH 3 BOLT MOUNTING.

DOCK SHELTERS

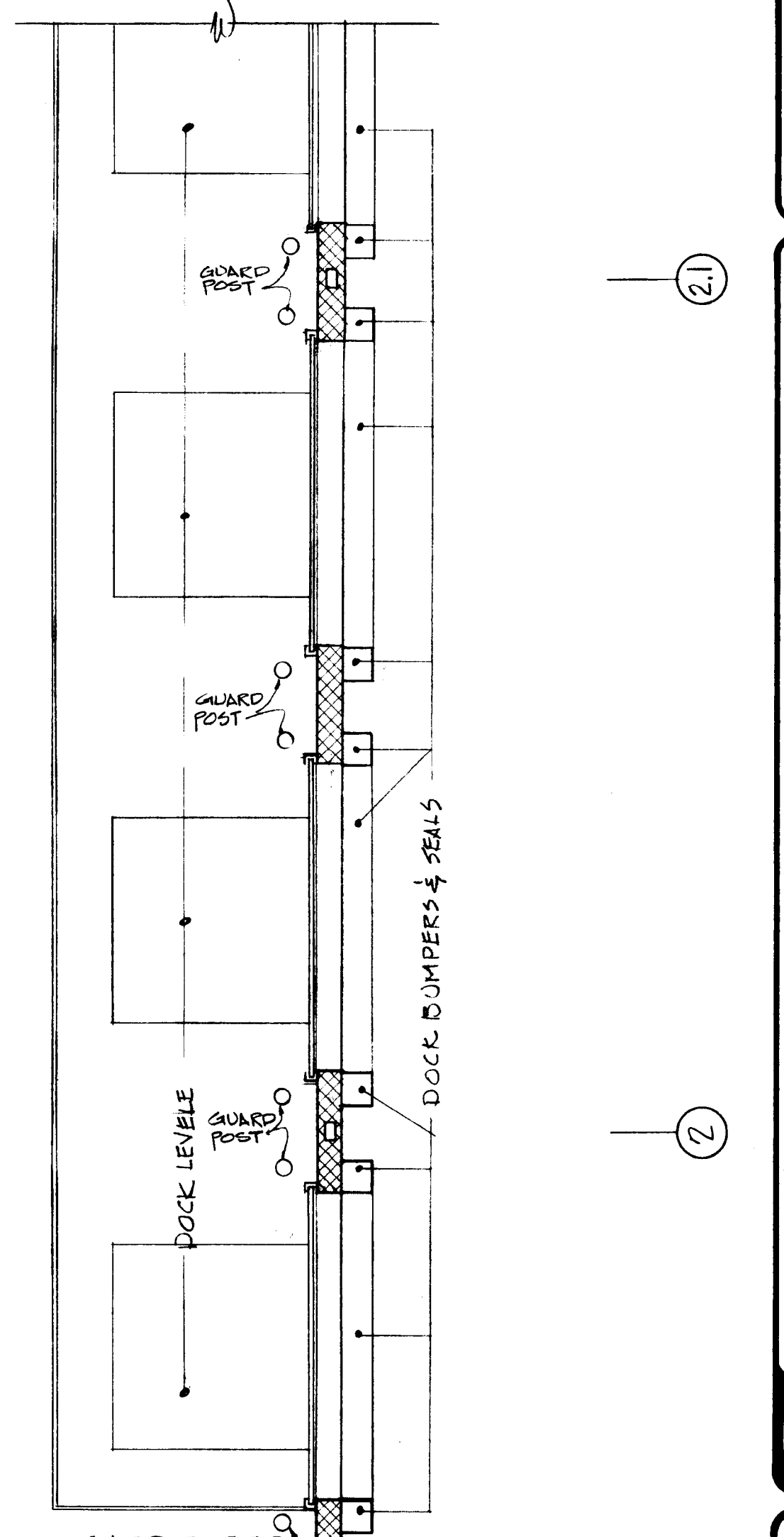
FURNISH AND INSTALL WEATHER SHIELD 600 SERIES D-10 RIGID DOCK SHELTER TO FIT DOOR OPENING 9' WIDE X 9' HIGH PROVIDING COVERAGE FOR UP TO 102" TRUCK TRAILERS. FACE PANELS TO BE BLUE ABRASION RESISTANT. 10" THICK FLEXILON D-10 MATERIAL WITH SPECIALLY WOVEN DOUBLE POLYESTER REINFORCEMENT. UNIT TO INCLUDE 2" X 4" WIDE #1 GRADE PRESSURE-TREATED WOLMANIZED LUMBER WITH DIAGONAL BRACING AND COVERED WITH TRANSLUCENT VINYL. A 6" W X 12" H FULL VISIBILITY YELLOW GUIDE STRIPE TO BE SEWN ON THE FACE OF EACH SIDE PANEL. UNIT TO INCLUDE FOAM FILLED BOTTOM DRAFT CUSHIONS AND PROTECTIVE STEEL CHANNEL BUMPERS. UNIT TO BE MANUFACTURED BY FLEXION, INC.

TOILET ACCESSORIES  
SEE SCHEDULE SHT A-2

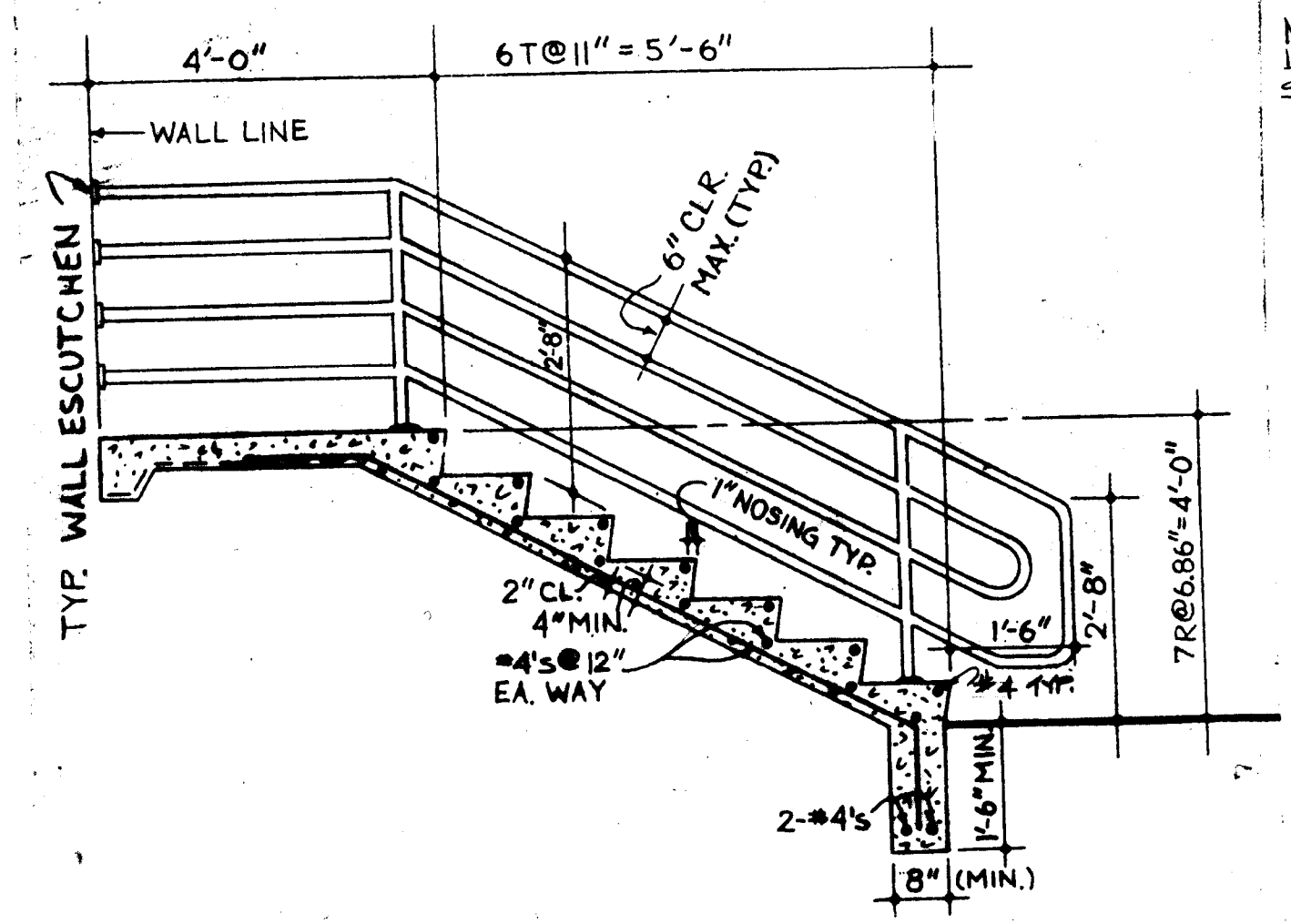
MEZZA/FLOOR FRAMING OVER THIS AREA TYP. AS SHOWN ON CROSS SECTION 'C'  
DESIGN LOADS 1100 PSF LIVE LOAD



PARTIAL FLOOR PLAN  
1/4" = 1'-0"



GUARD POST TYP.  
SEE DETAIL SHT A-7



2  
3  
SECTION THRU STEPS  
1/2" = 1'-0"

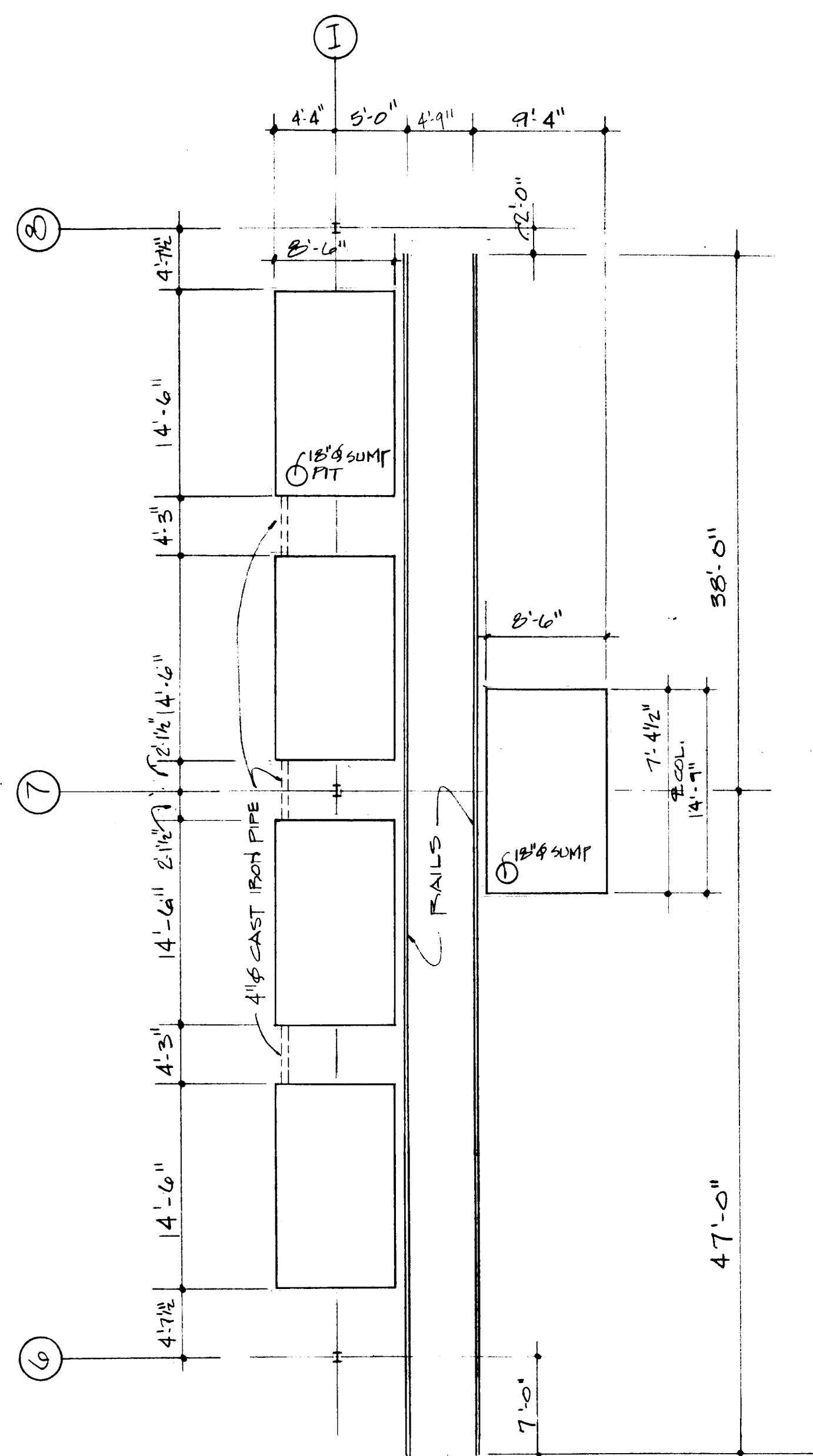
**CAMERON L. WOLFE, JR. AIA**  
architects  
MARION, VIRGINIA

SPICER UNIVERSAL JOINT DIVISION  
DANA CORPORATION  
BRISTOL, VIRGINIA

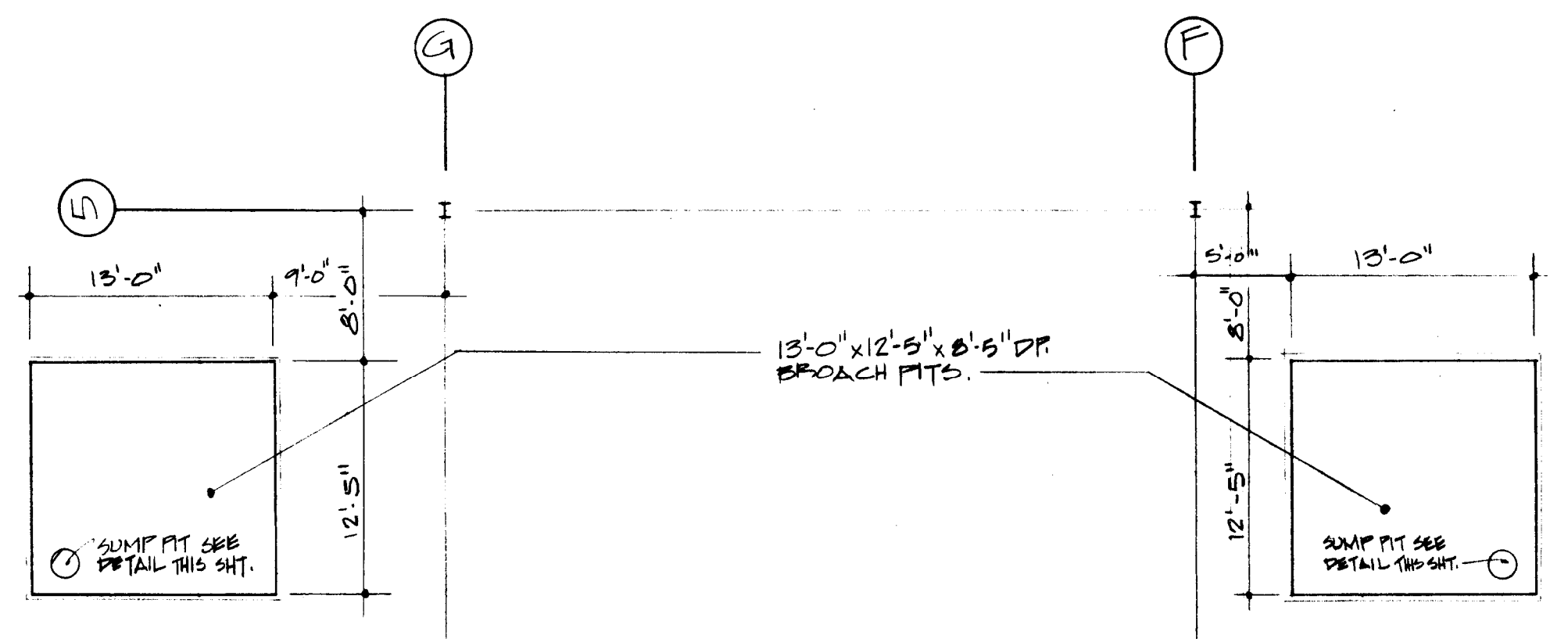
DRAWING  
1-100-10-1

4-8-88  
DATE

1-100-10-1  
A-3  
OF  
57.46  
CONV

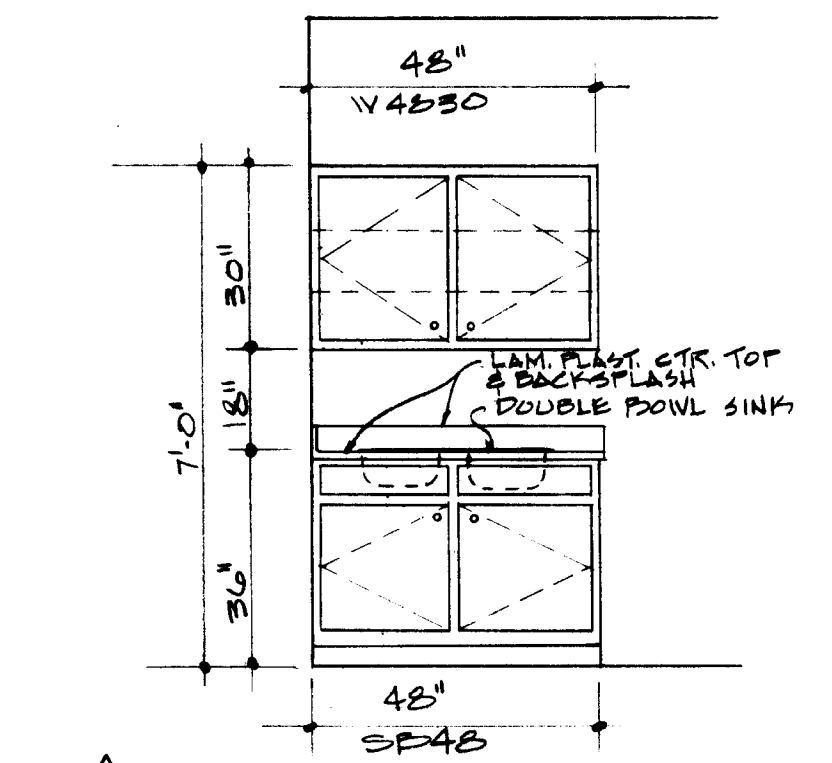


PARTIAL FLOOR PLAN HEAT TREAT AREA  
1/2" = 1'-0"



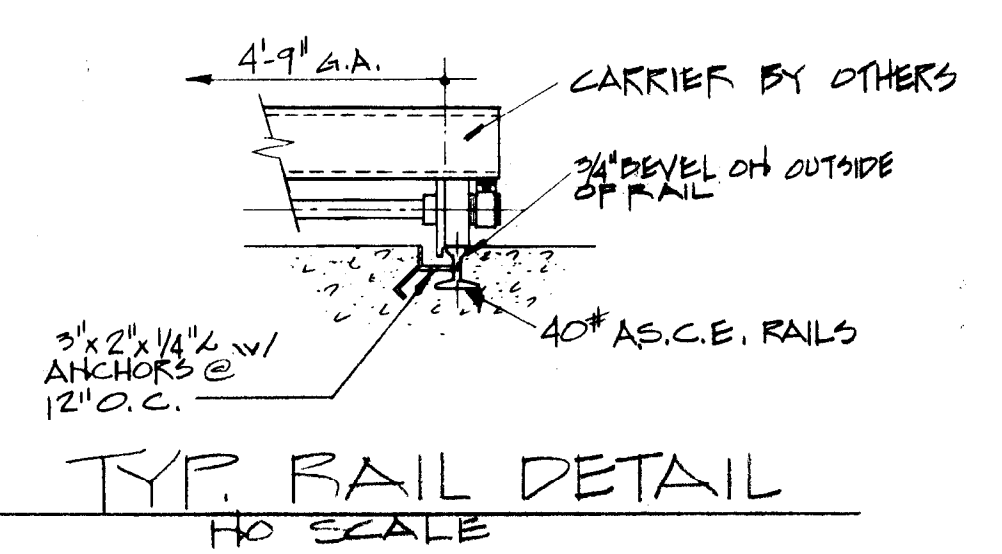
PARTIAL FLOOR PLAN BROACH PIT AREA  
1/2" = 1'-0"

- NOTES:
1. VERIFY LOC. & DIMS ON PITS W/ OWNER PRIOR TO CONSTRUCTION
  2. MIN. LENGTH OF RAIL, NOT LESS THAN 10'-0"

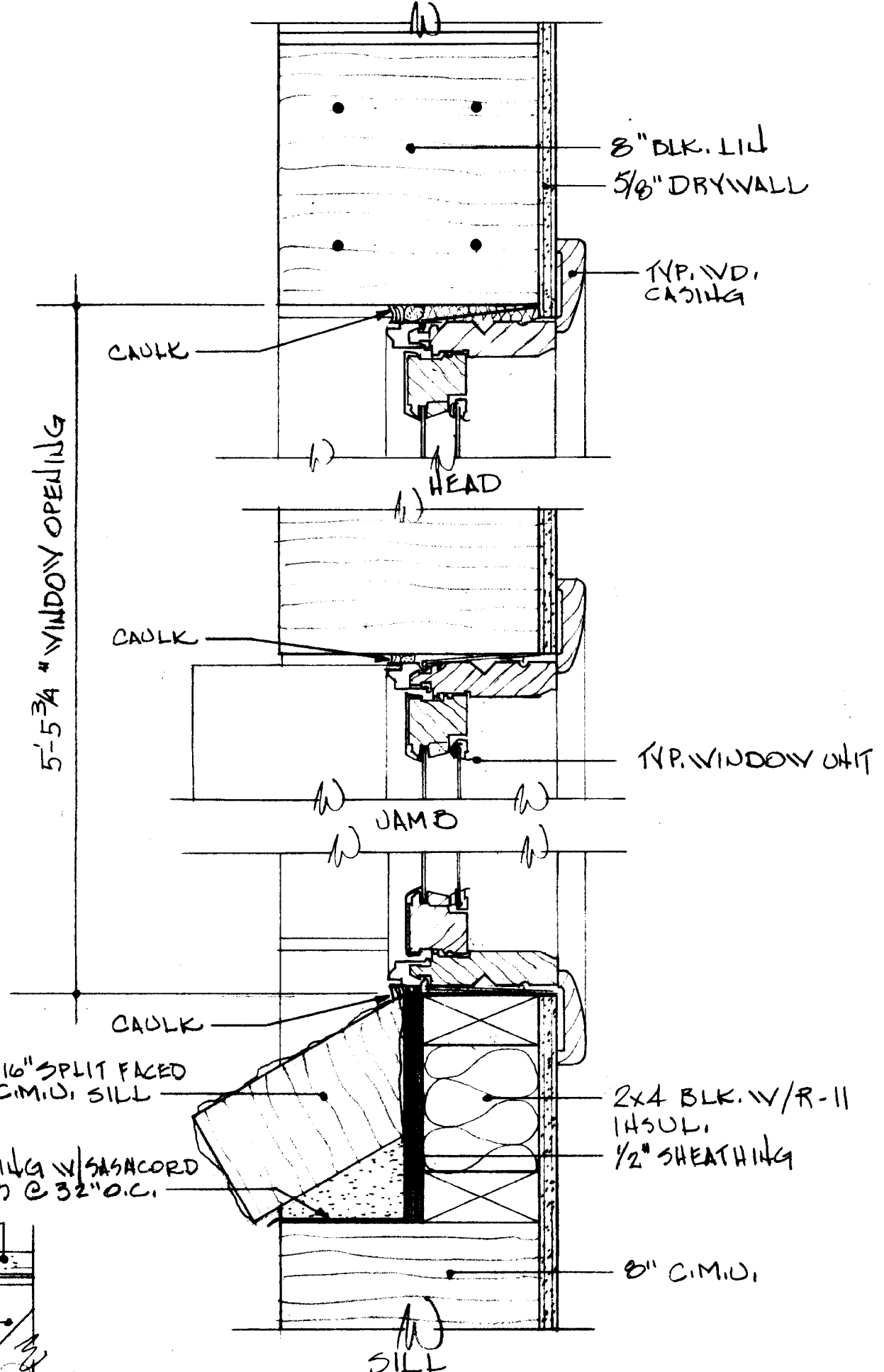


CABINET ELEV. LAB.-112  
3/8" = 1'-0"

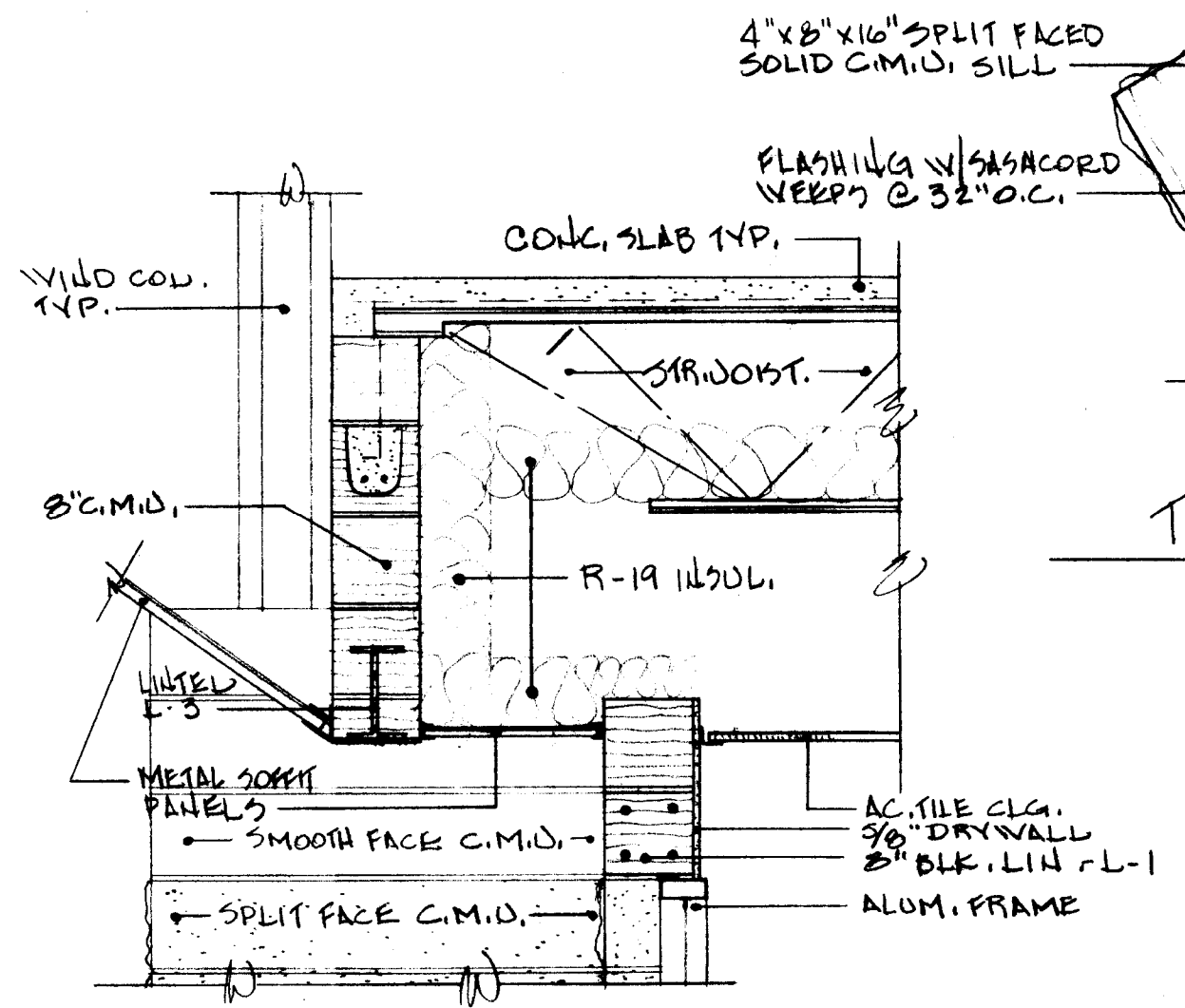
CABINETS  
CABINETS UNITS SHALL BE EQUAL TO QUALITY TO MERILLAT INDUSTRIES, INC. CABINETS SHALL BE OMNI OAK DESIGN COMPLETE STANDARD UNITS FOR SIZES SELECTED. TOPS FOR UNITS ARE LAMINATED PLASTIC.



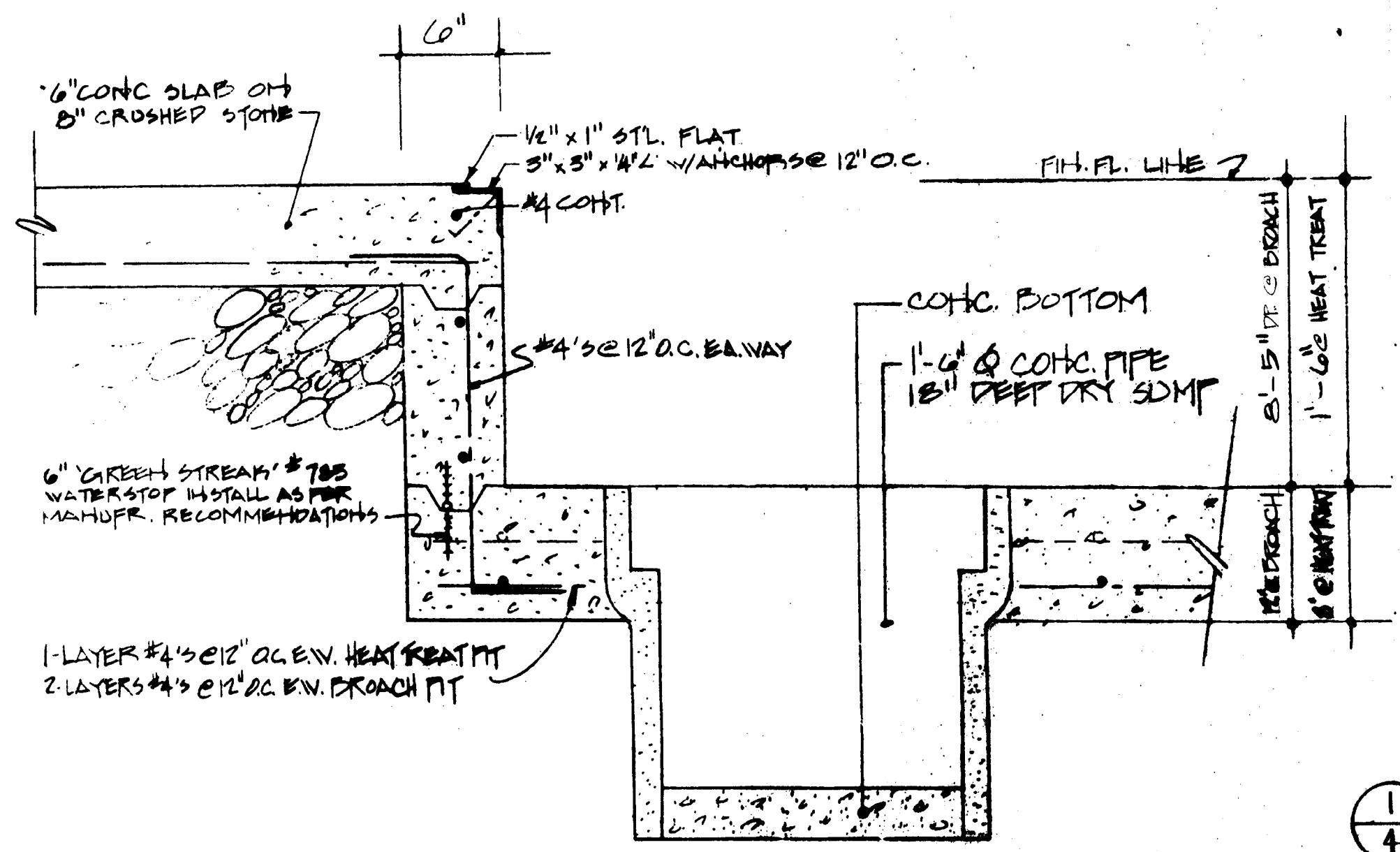
TYP. RAIL DETAIL  
NO SCALE



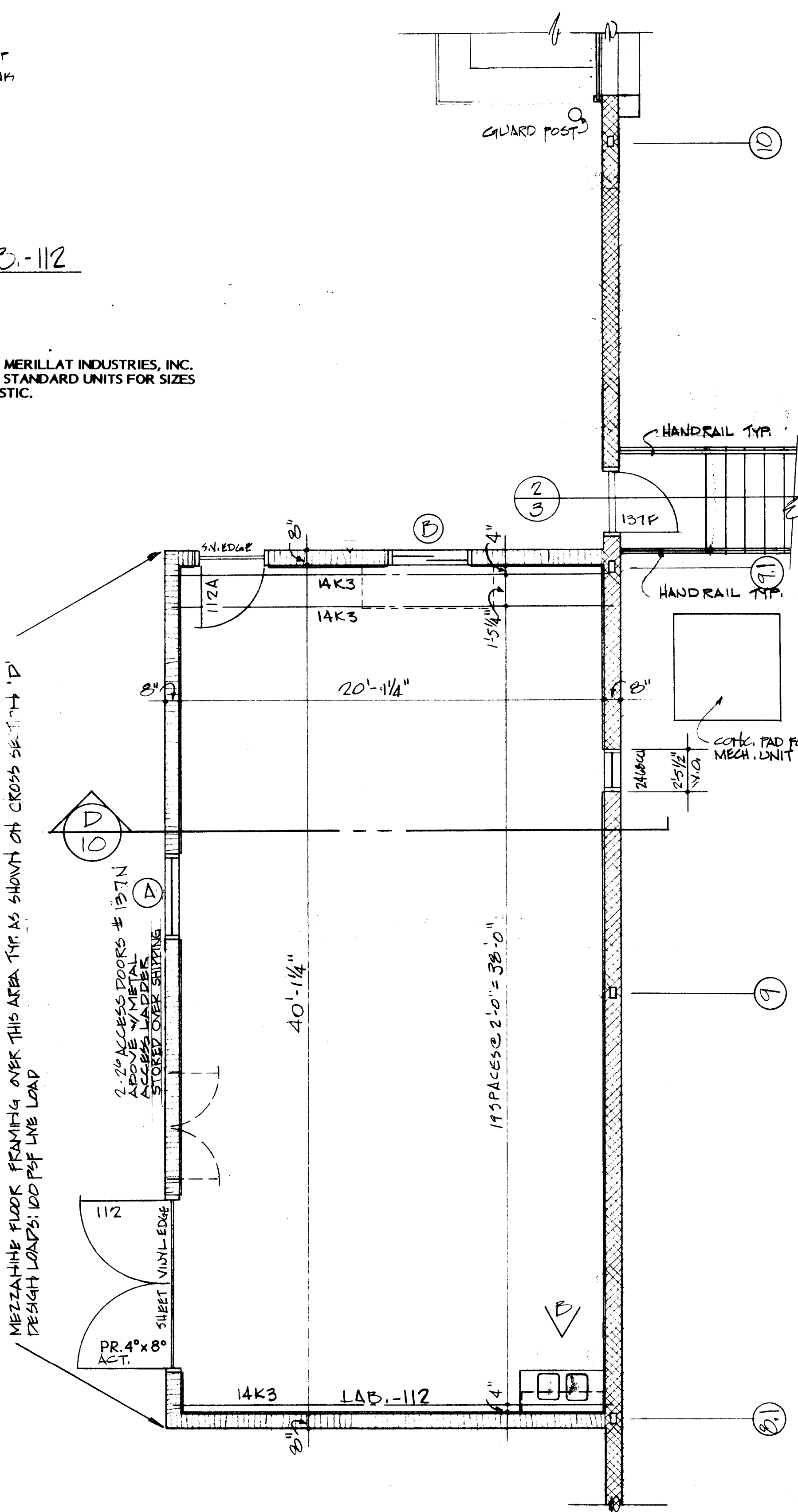
TYP. WINDOW SECTION  
3" = 1'-0"



WALL SECTION @ DOOR-102  
3/4" = 1'-0"



HEAT TREAT & BROACH PIT DETAIL  
1/2" = 1'-0"

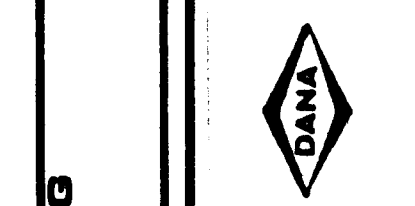


PARTIAL FLOOR PLAN  
1/4" = 1'-0"

CAMERON L. WOLFE, JR. AIA  
architects  
MARION, VIRGINIA



SPICER UNIVERSAL JOINT DIVISION  
DANA CORPORATION  
BRISTOL VIRGINIA

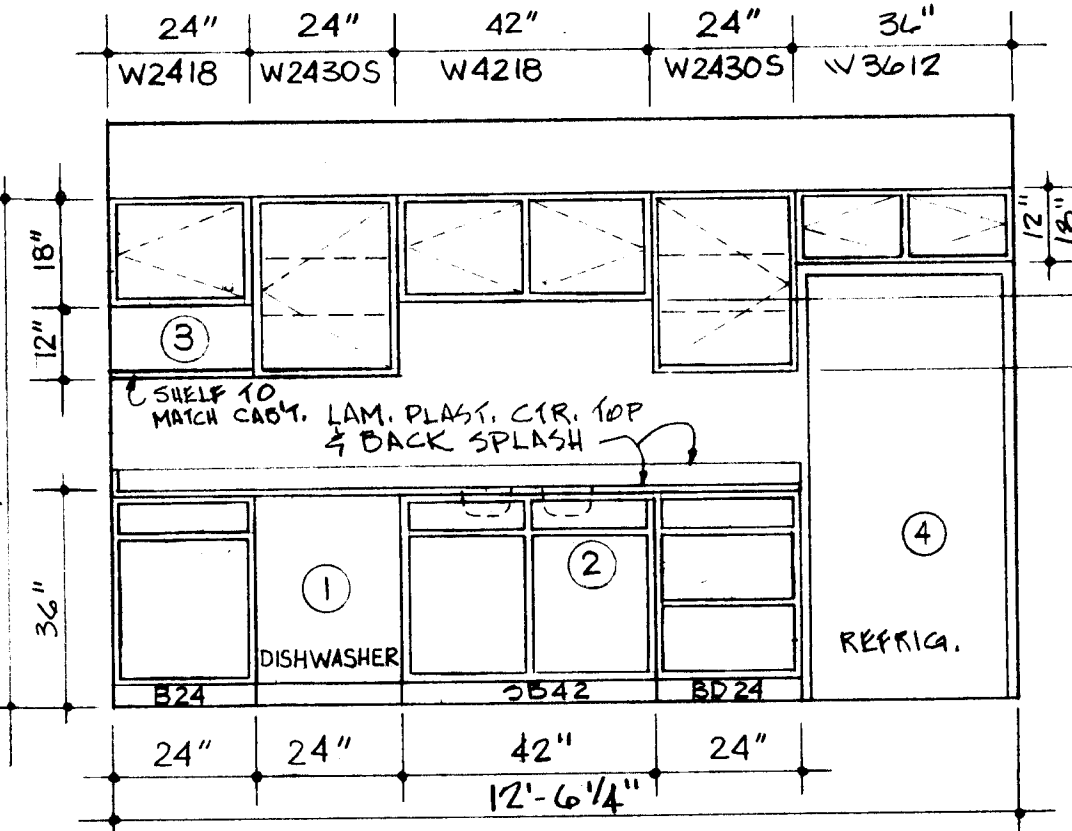


DRAWING  
10M-C03

020-0-003  
4-8-88  
DATE

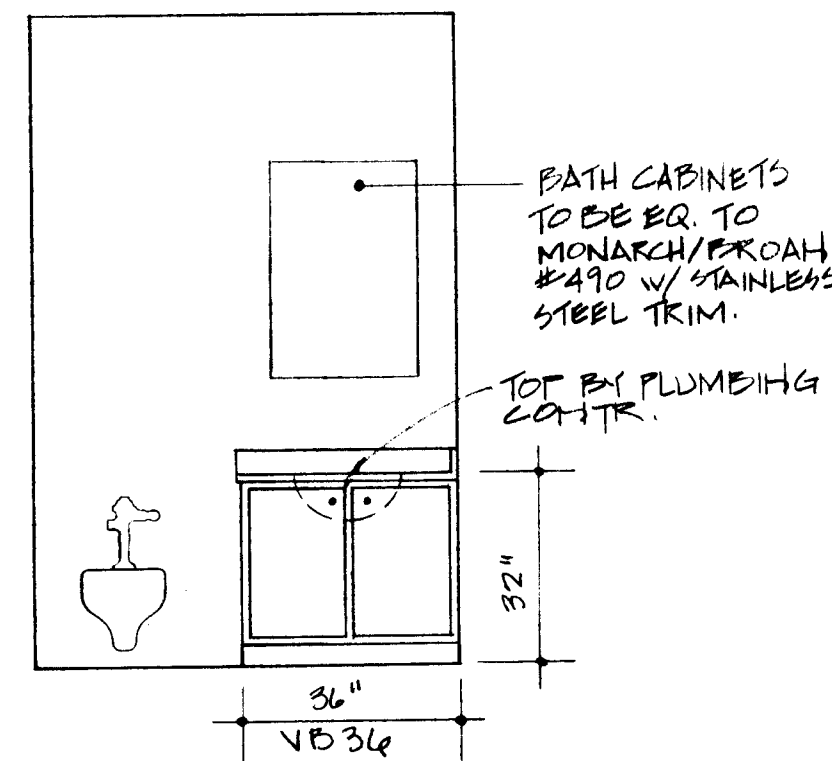
10010  
A-4  
OF  
57-46  
COMM

**CABINETS**  
 CABINETS UNITS SHALL BE EQUAL TO QUALITY TO MERILLAT INDUSTRIES, INC. CABINETS SHALL BE OMNI OAK DESIGN COMPLETE STANDARD UNITS FOR SIZES SELECTED. TOPS FOR UNITS ARE LAMINATED PLASTIC.

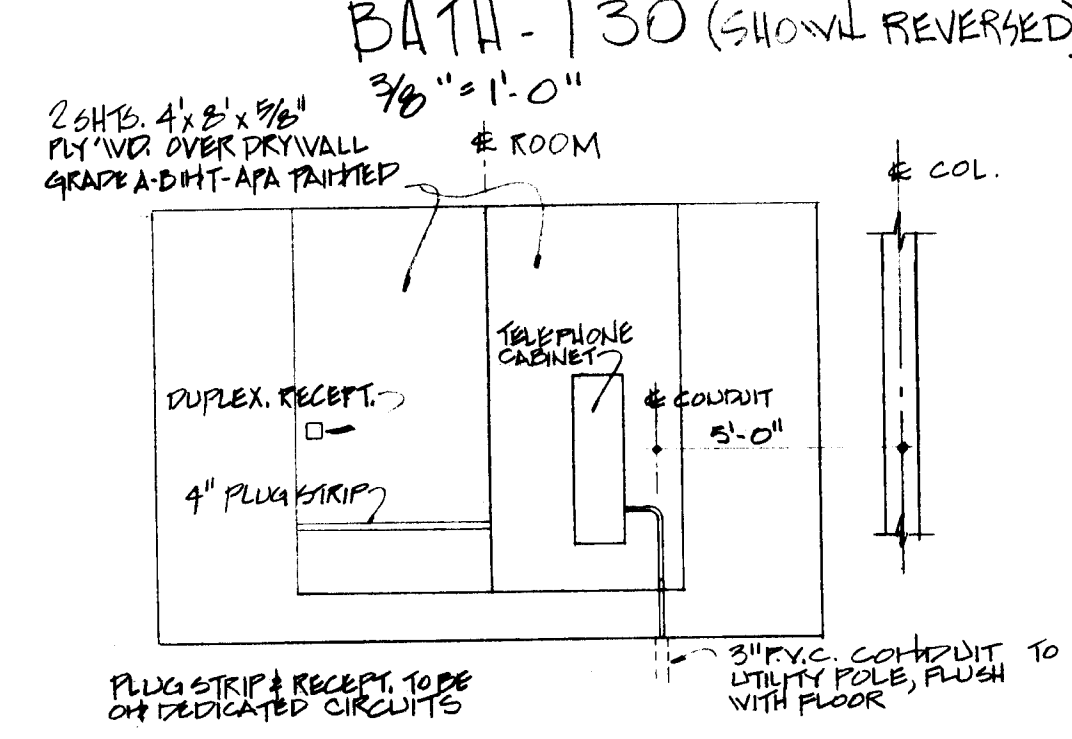


**CABINET ELEVATION**  
 3/8" = 1'-0"

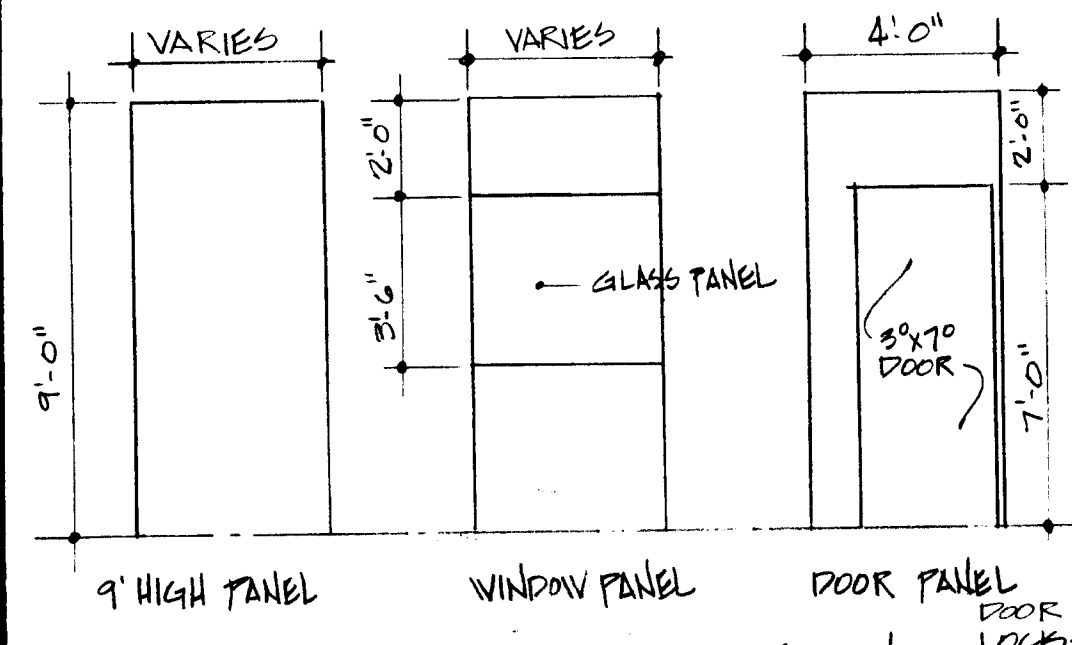
NOTE: SEE APPLIANCE SCHEDULE SHT. A-2



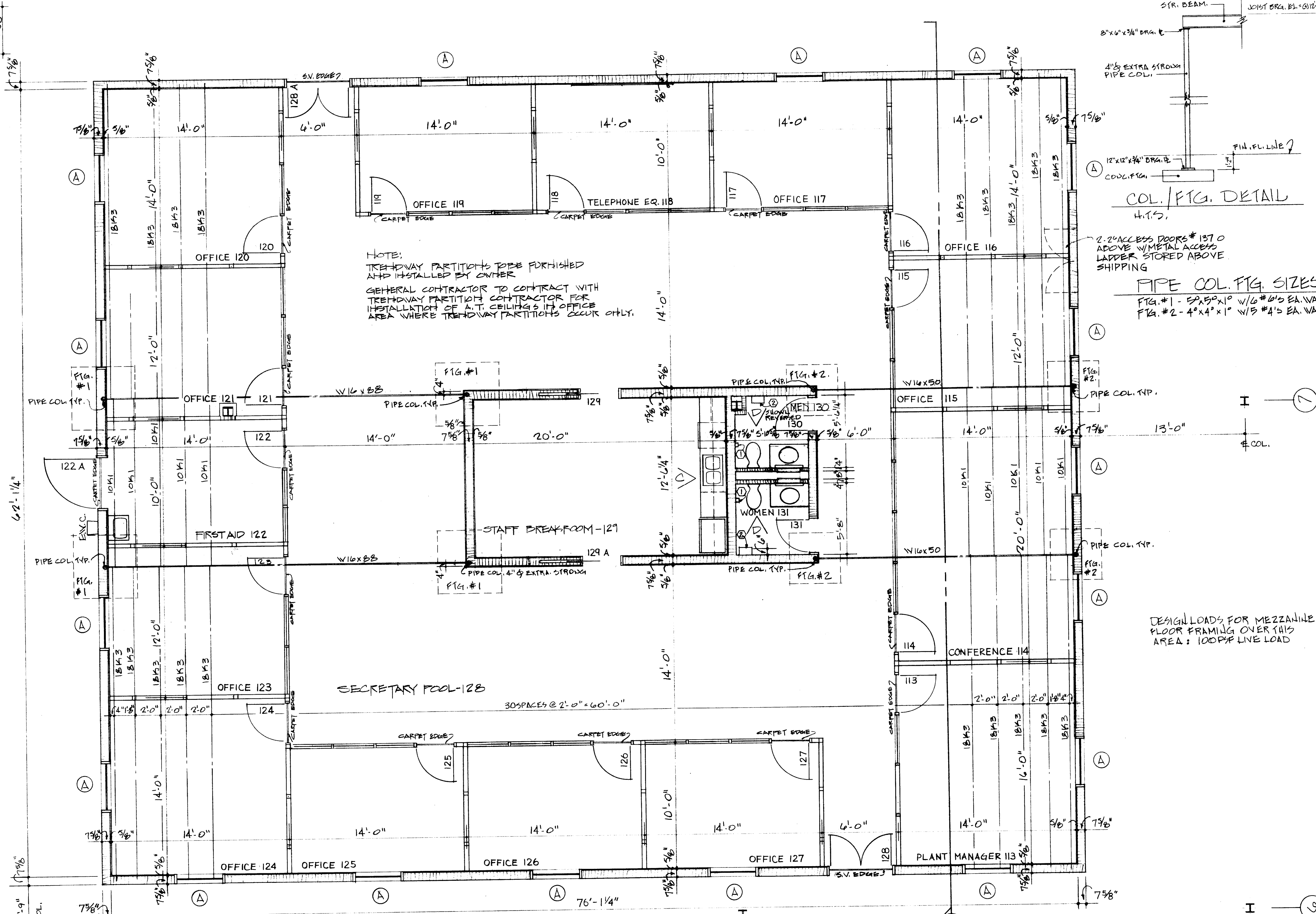
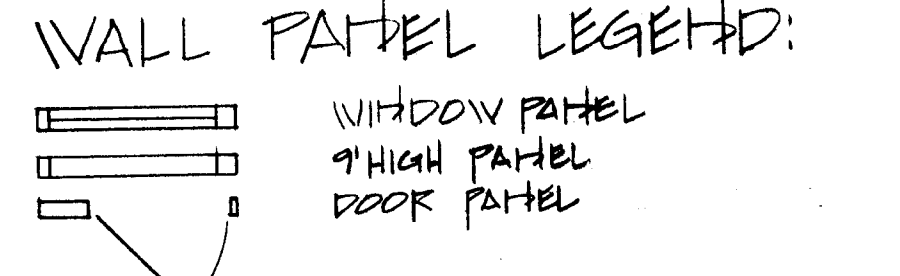
**BATH-131**  
 BATH-130 (SHOW REVERSED)  
 3/8" = 1'-0"



**WALL ELEV. TELEPHONE EQ. 118**  
 1/4" = 1'-0"



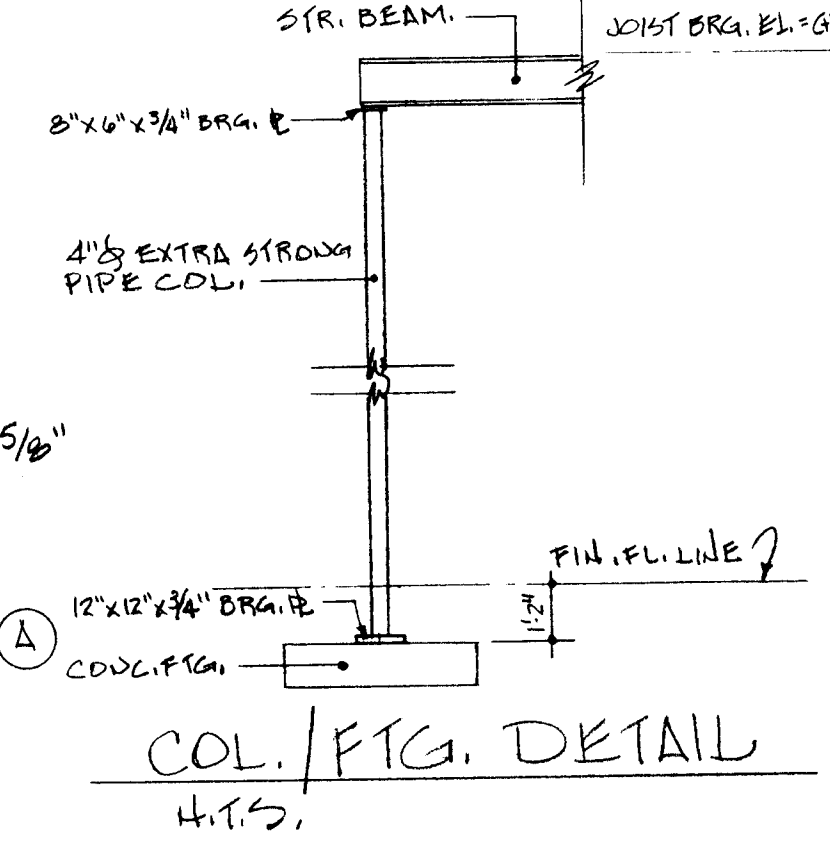
**WALL PANEL ELEVATIONS**  
 NO SCALE



**PARTIAL FLOOR PLAN**  
 1/4" = 1'-0"

WALL DIMENSIONS ARE SHOWN AS SUCH SO THAT FINISH DIMENSIONS FROM FIN. FACE OF DRY WALL ALLOW FOR EVEN 2X2 CLG. TILE LAYOUT THROUGHOUT. DO NOT ADJUST DIMENSIONS!

TOILET ACCESSORIES SEE SCHEDULE SHT. A-2



**COL./FIG. DETAIL**  
 1/4" = 1'-0"

PIPE COL. FIG. SIZES  
 FIG. #1 - 5"x5"x10" W/6 #4'S EA. WAY  
 FIG. #2 - 4"x4"x10" W/5 #4'S EA. WAY

DESIGN LOADS FOR MEZZANINE FLOOR FRAMING OVER THIS AREA: 100PSF LINE LOAD

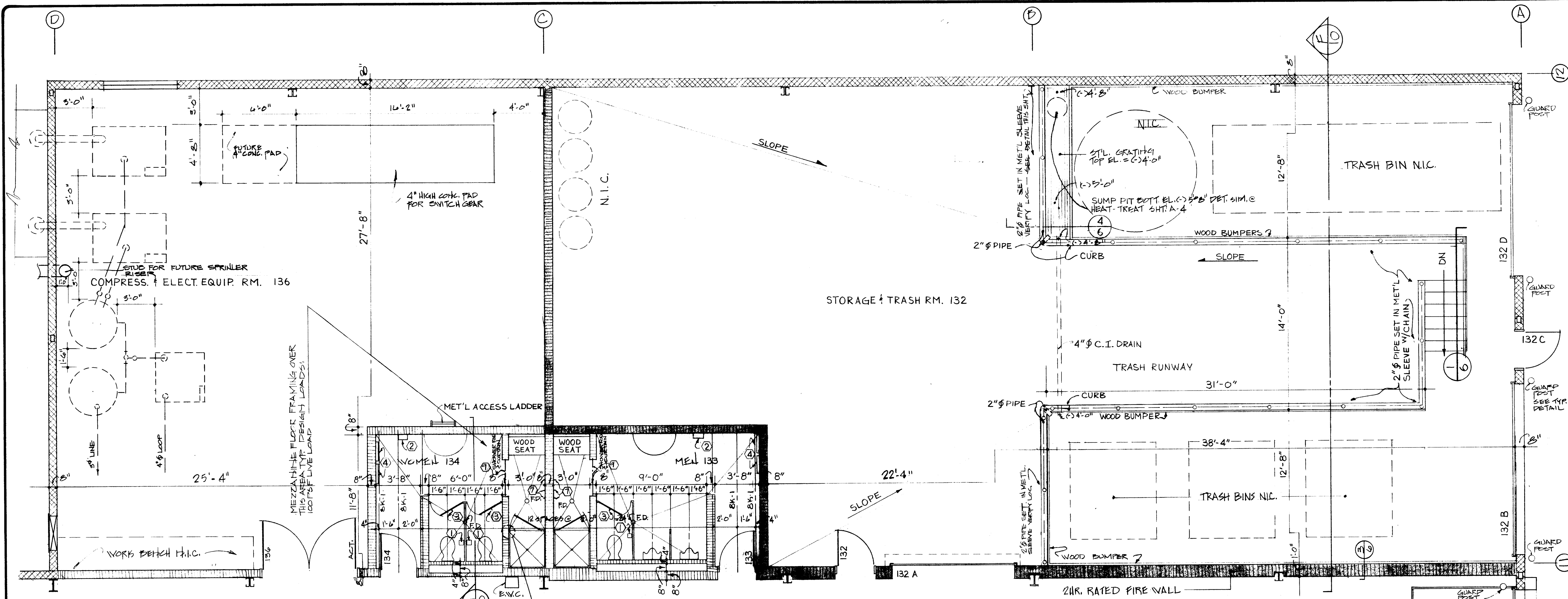
**CAMERON L. WOLFE, JR. AIA**  
**architects**  
 MARION, VIRGINIA



DRAWING  
 20-0-C-13  
 SPICER UNIVERSAL JOINT DIVISION  
 DANA CORPORATION  
 BRISTOL VIRGINIA

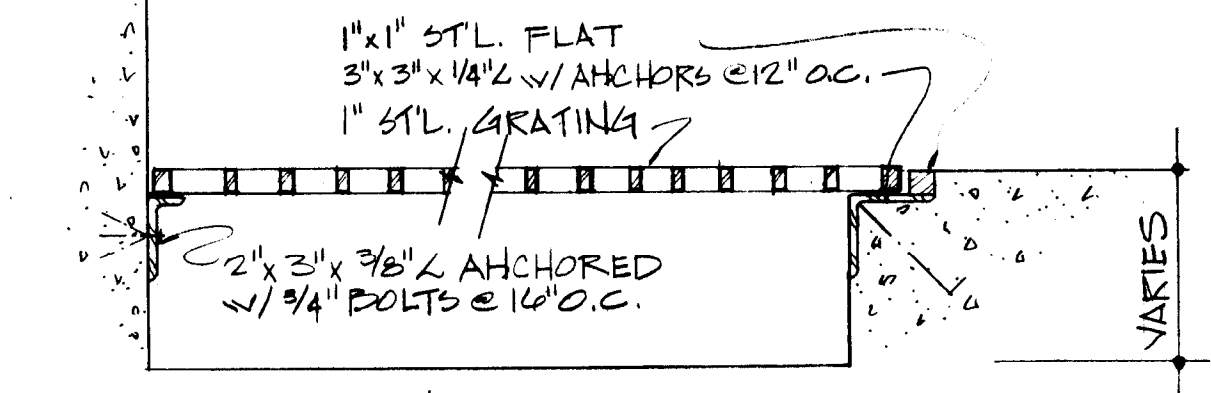
DATE  
 4-8-88

DATE  
 87-46  
 COMM

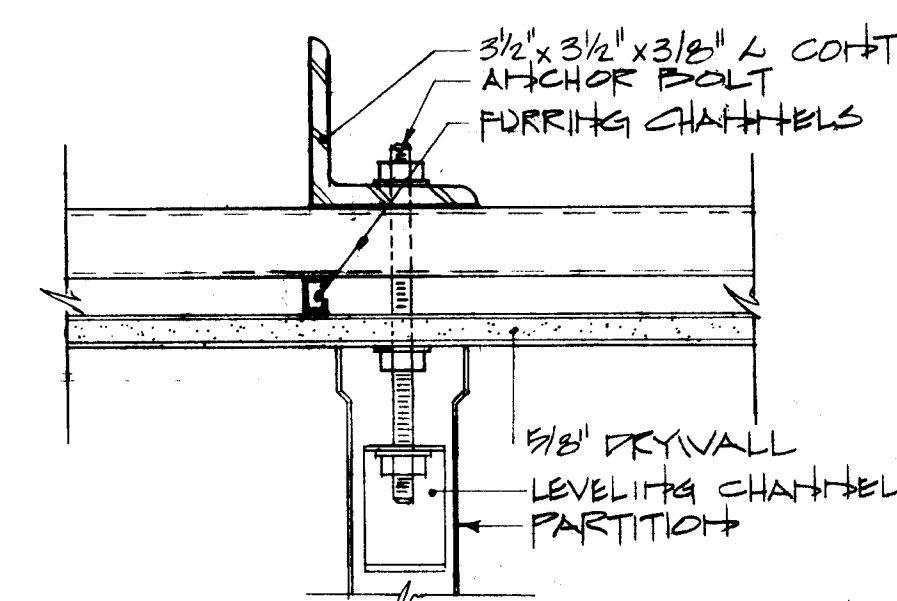


**PARTIAL FLOOR PLAN**  
1/4" = 1'-0"

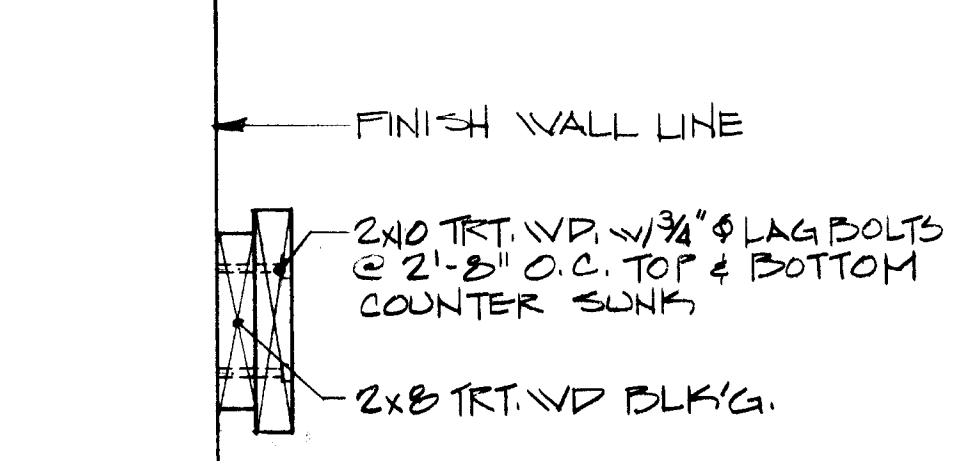
TOILET ACCESSORIES  
SEE SCHEDULE SHT. A-2



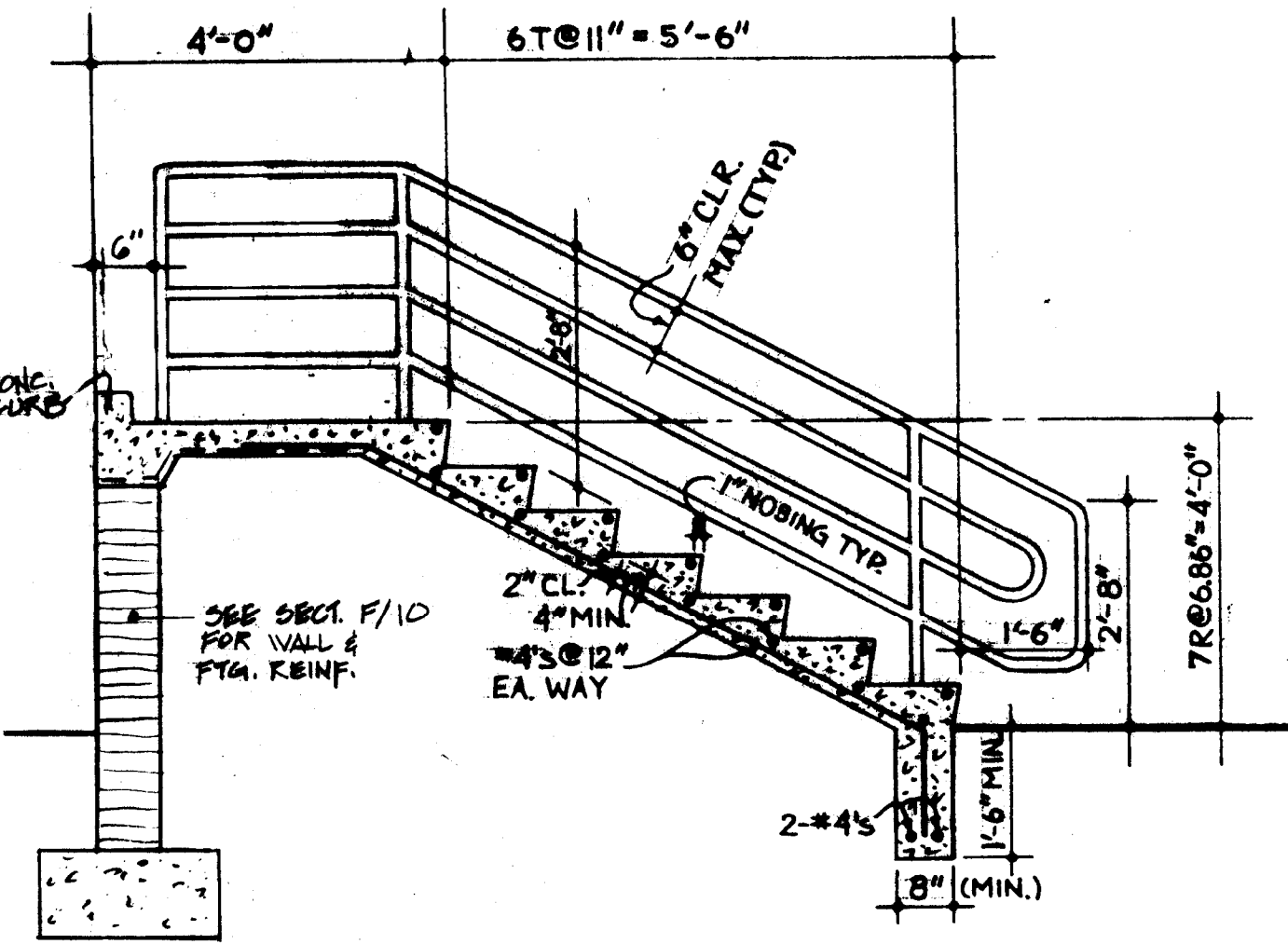
**4 GRATING DETAIL**  
1/2" = 1'-0"



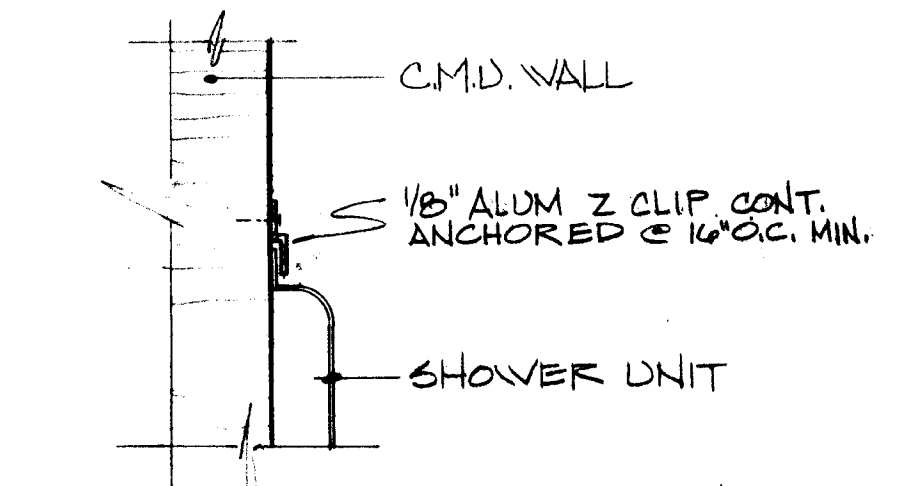
**2 TOILET PARTITION MOUNTING DETAIL**  
3/16" = 1'-0"



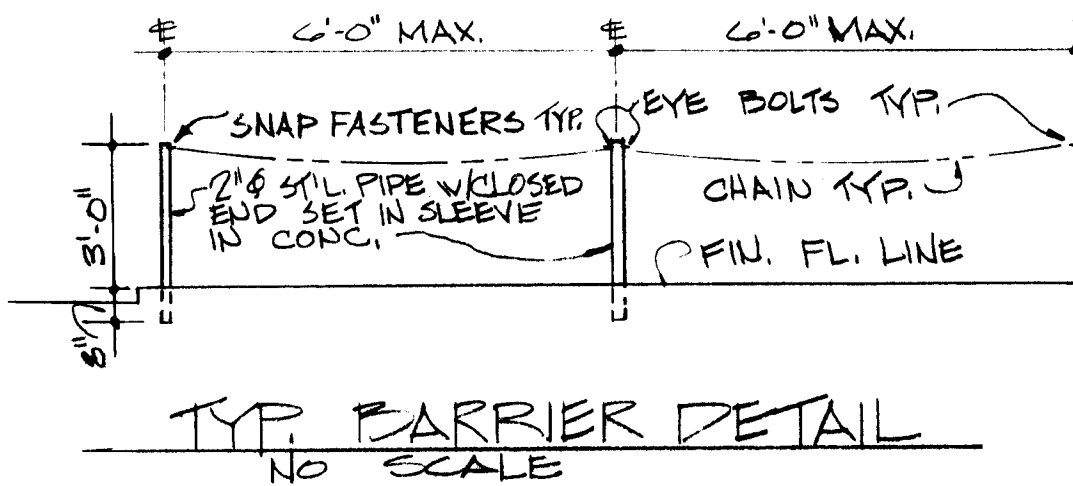
**3 WOOD BUMPER DETAIL**  
1/2" = 1'-0"



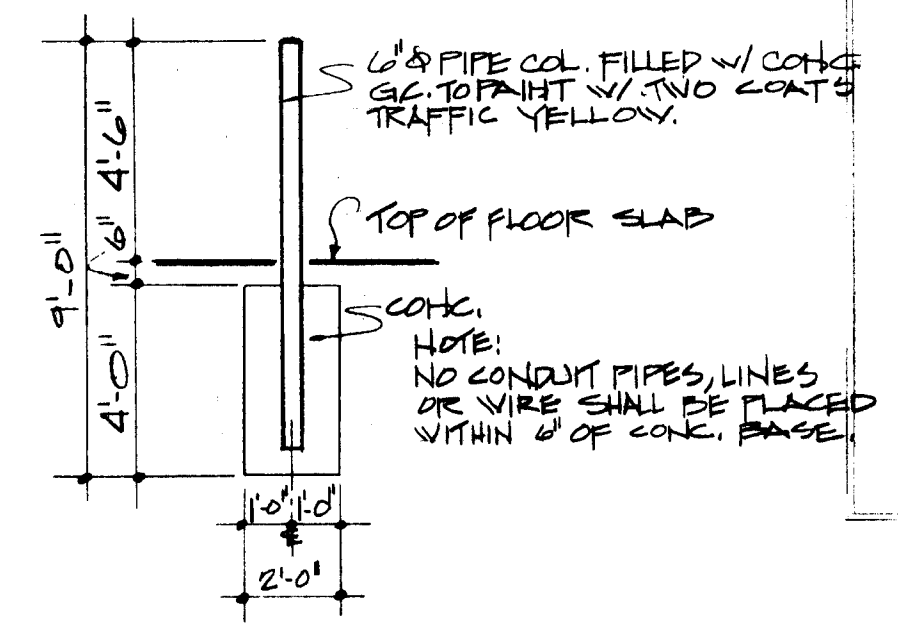
**1 SECTION THRU STEPS**  
1/2" = 1'-0"



**2 SHOWER DETAIL**  
3/16" = 1'-0"



**1 TYP. BARRIER DETAIL**  
NO SCALE

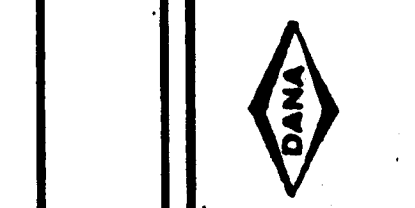


**1 GUARD POST DETAIL (TYP.)**  
NO SCALE

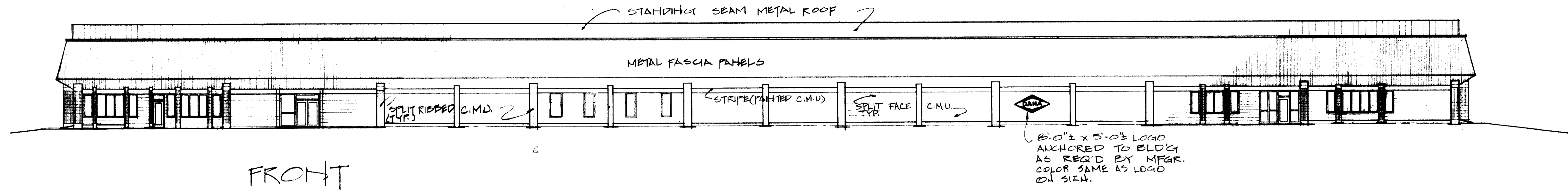
**CAMERON L. WOLFE, JR. AIA**  
architects  
MARION, VIRGINIA



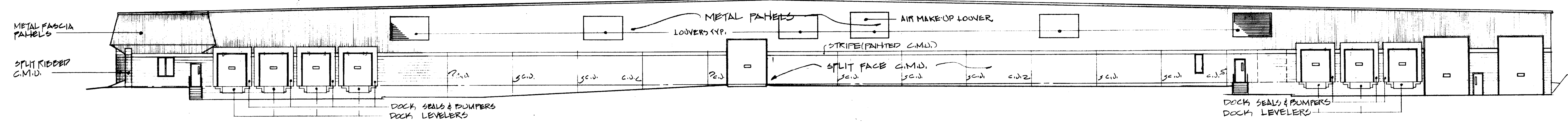
DRAWING  
SPICER UNIVERSAL JOINT DIVISION  
DANA CORPORATION  
BRISTOL, VIRGINIA



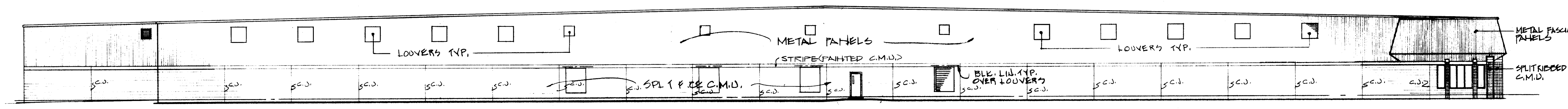
920-B-CARD  
4-8-88  
DATE  
A-6  
51-46  
CONNO



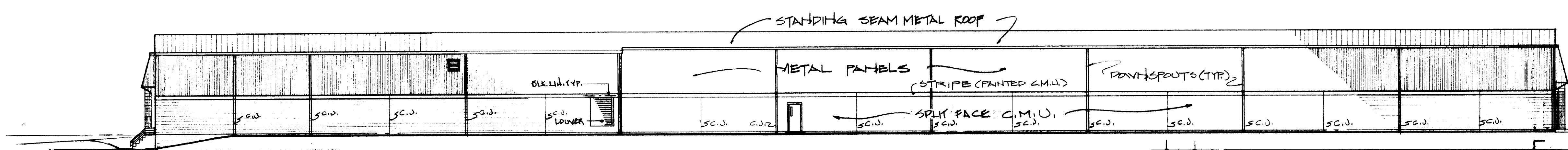
FRONT



RIGHT SIDE



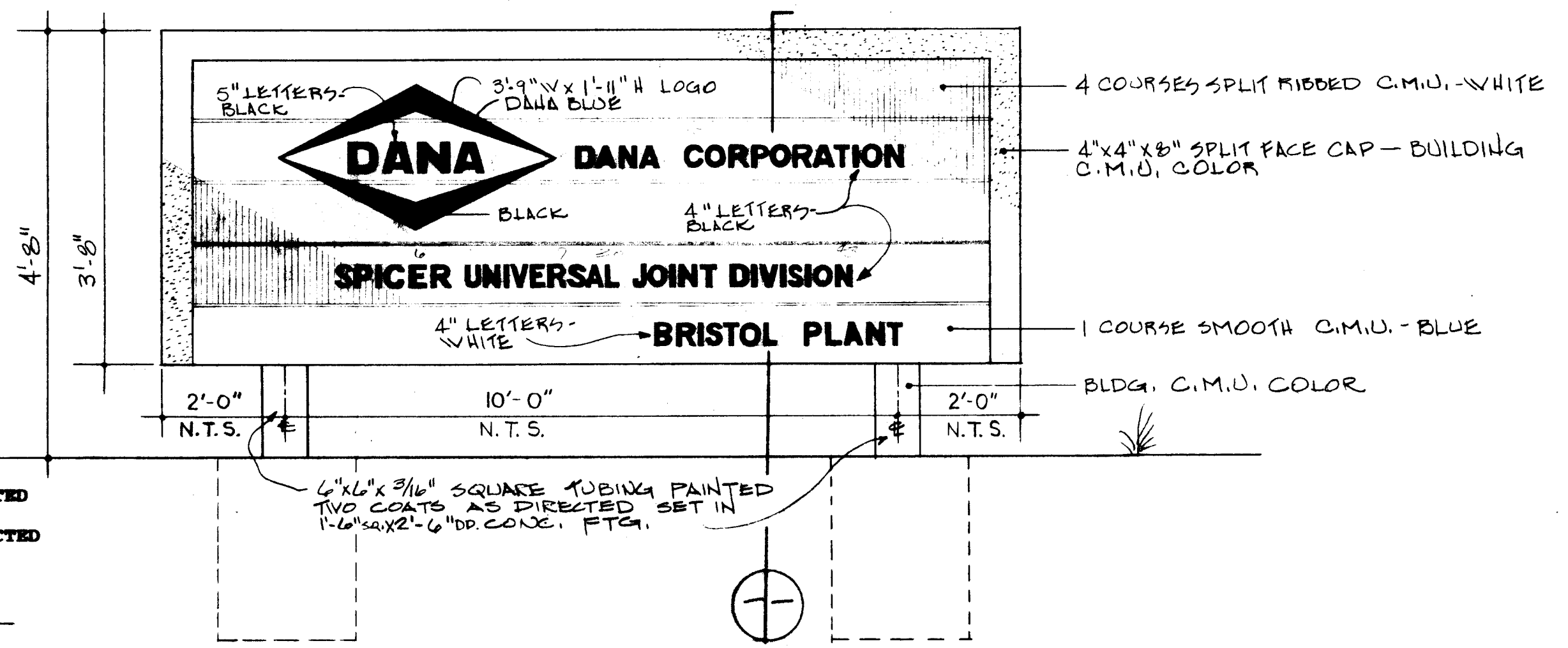
LEFT SIDE



REAR

ELEVATIONS

1/4" = 1'-0"



LOGOS AND LETTERS EQUAL TO VENUS BOLD EXTENDED LETTERS. PROJECTED MOUNTING WITH BRACKETS. COLOR TO BE SELECTED. LOGO TO BE TWO COLORS, TO BE SELECTED. LOGO DEPTH GREATER THAN LETTERS, PROJECTED MOUNTING WITH BRACKETS. ALL BAKED ENAMEL COLORS.

SIGN ELEVATION

3/4" = 1'-0"

CAMERON L. WOLFE, JR. AIA  
architects MARION, VIRGINIA



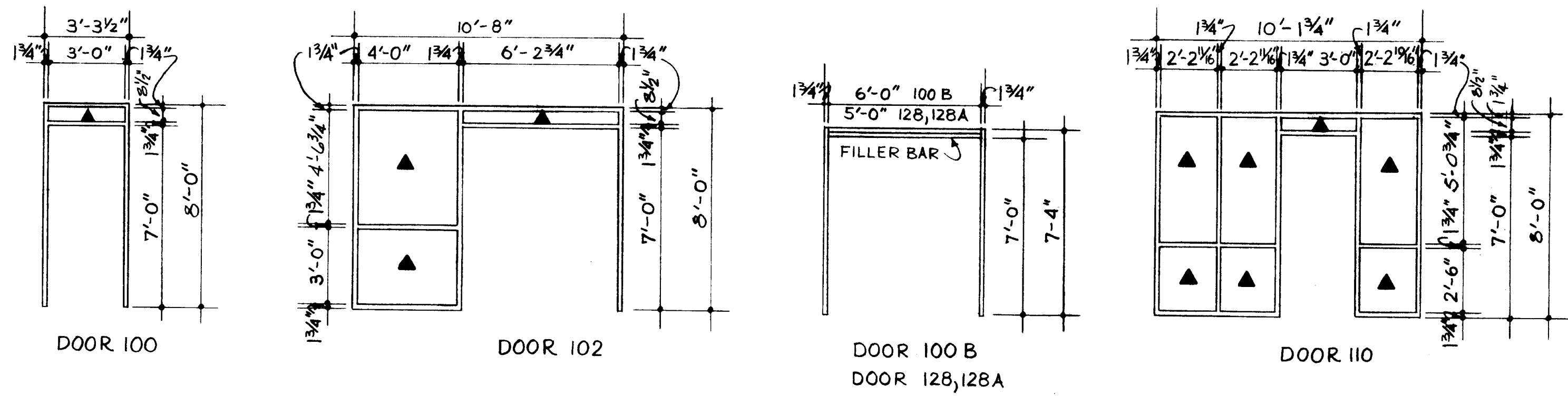
SPICER UNIVERSAL JOINT DIVISION  
DANA CORPORATION  
BRISTOL VIRGINIA



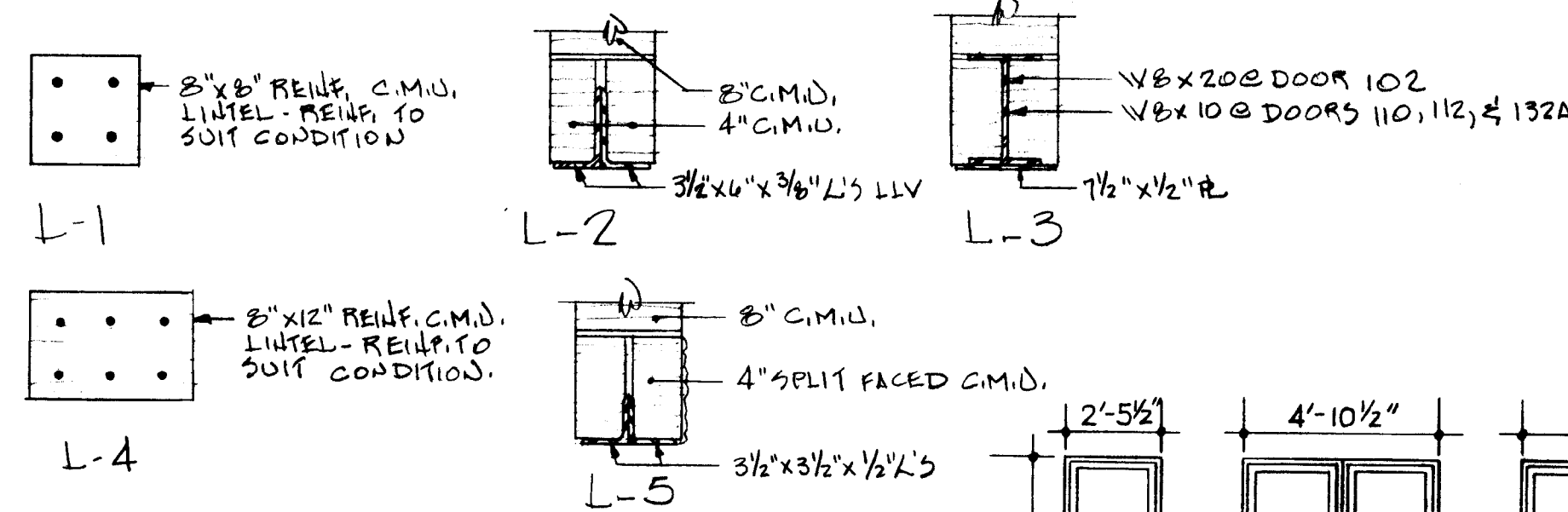
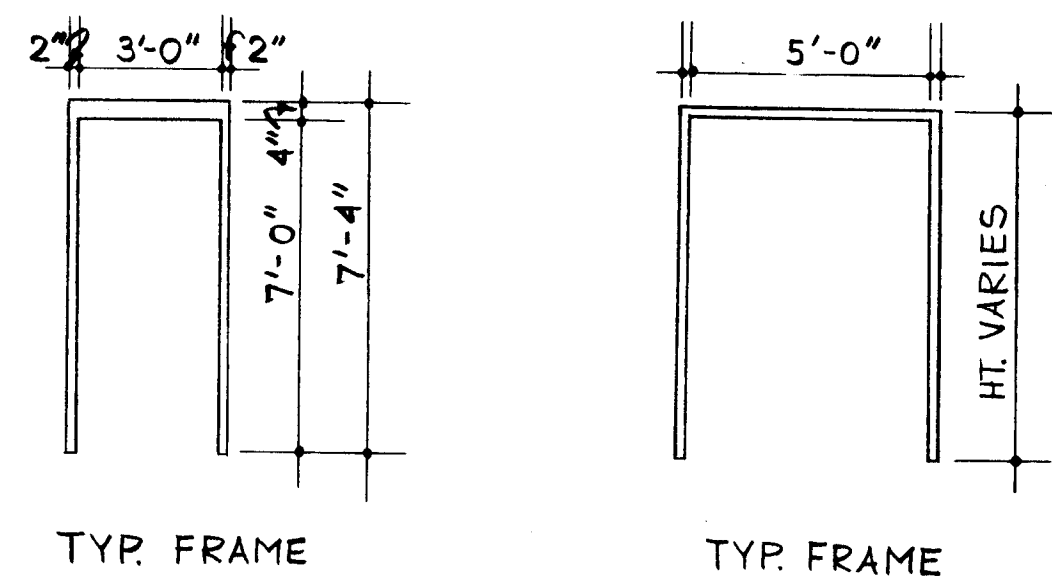
DRAWING  
1-11-88

820-B-CM  
4-8-88  
DATE

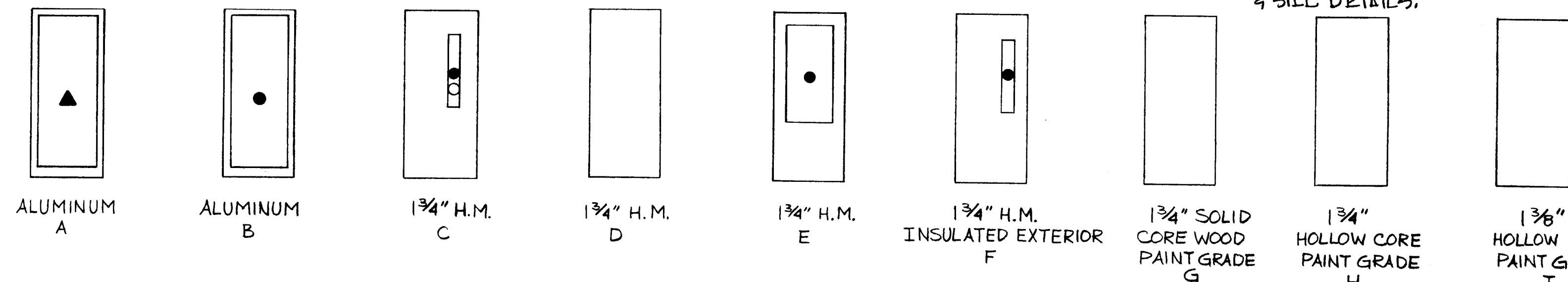
1-11-88  
A-7  
OF  
8746  
COMM



ALUMINUM DOOR FRAMES

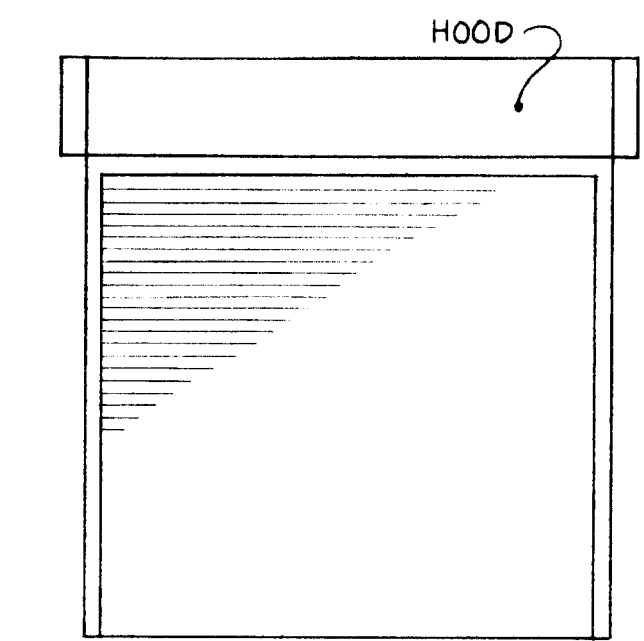


HOLLOW METAL WOOD FRAME FRAME

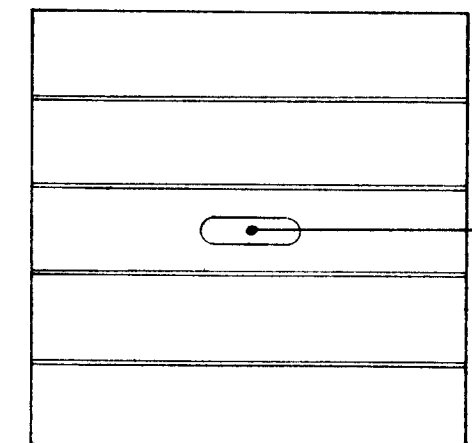


DOOR TYPES

DOORS BY PARTITION SUPPLIER INCLUDES BUTTS + INSTALLATION. PARTITION INSTALLER TO INSTALL LOCKSET FURNISHED BY GENERAL CONTRACTOR

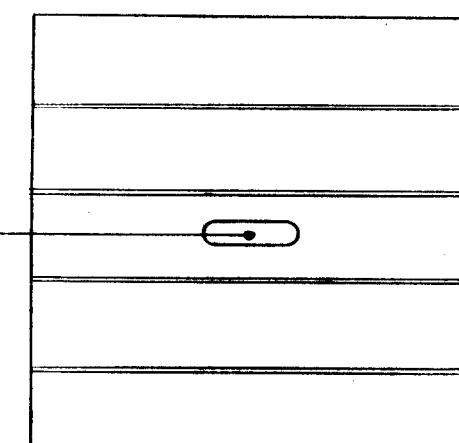


3 HR. FIRE PROTECTION RATING. NORTH AMERICAN ROLLING DOOR INC. ROLLING FIRE DOOR COMPLETE W/MOTOR OPERATORS. POWER: 120 V REVERSING SAFETY EDGE 160° LINK



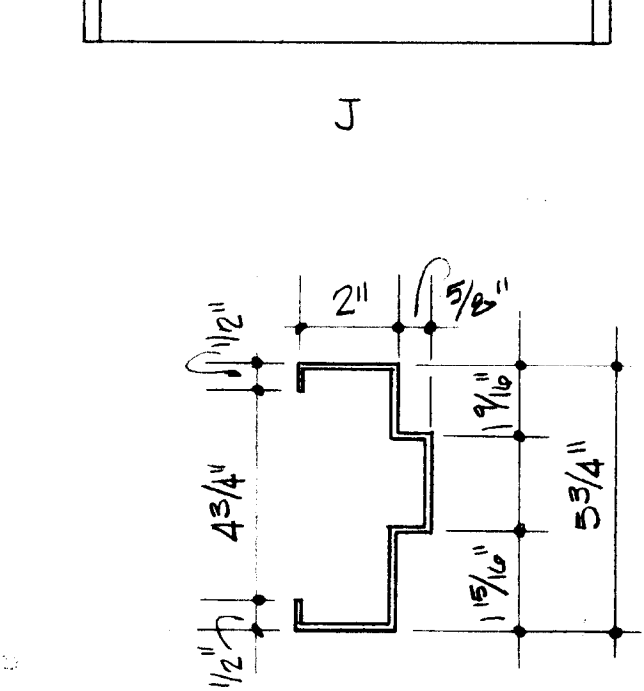
WAYNE DALTON "THERMOSPAN" INSULATED DOOR VERTICAL LIFT OR VERTICAL OVERHEAD HIGH LIFT

ELECTRIC DOOR OPERATOR TO SUIT DOOR SIZE (120V)

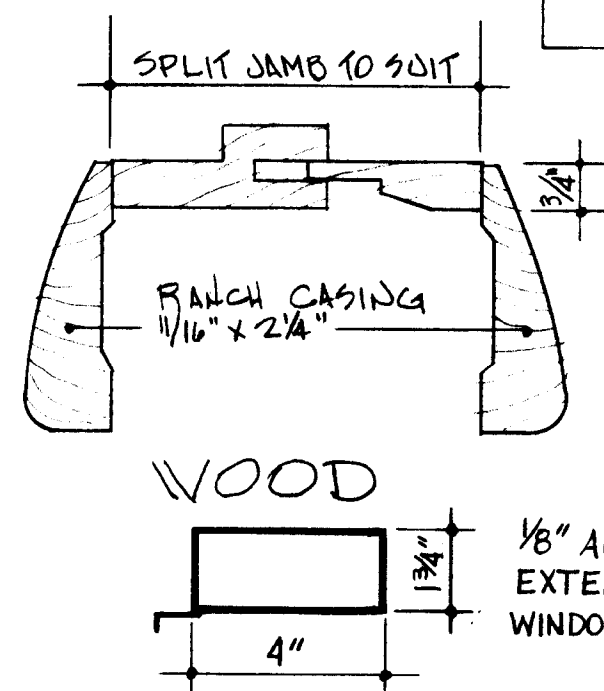


WAYNE DALTON "THERMOSPAN" INSULATED DOOR OVERHEAD HIGH LIFT

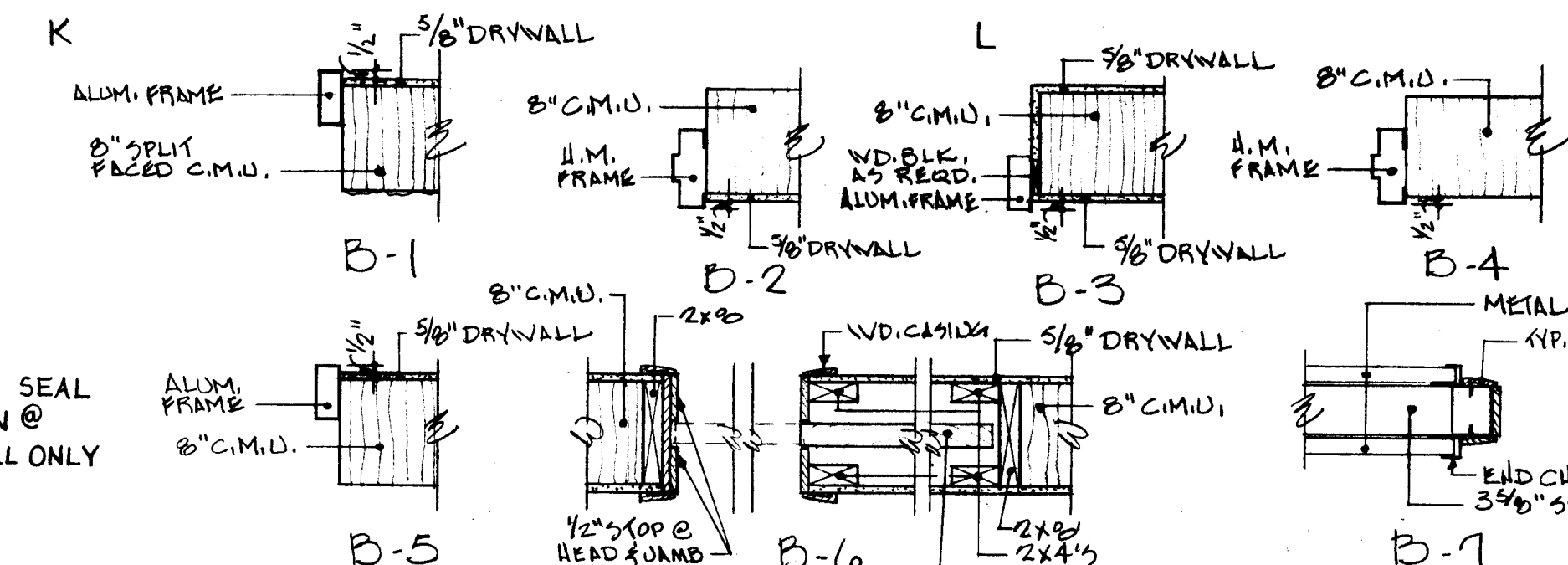
ELECTRIC DOOR OPERATOR TO SUIT DOOR SIZE (120V). MOUNT TRACK AS HIGH AS POSSIBLE TO CEILING



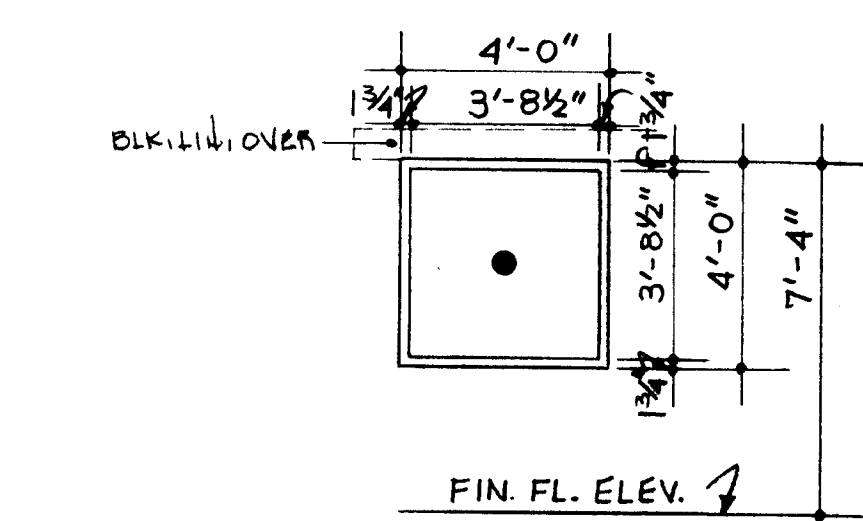
HOLLOW METAL



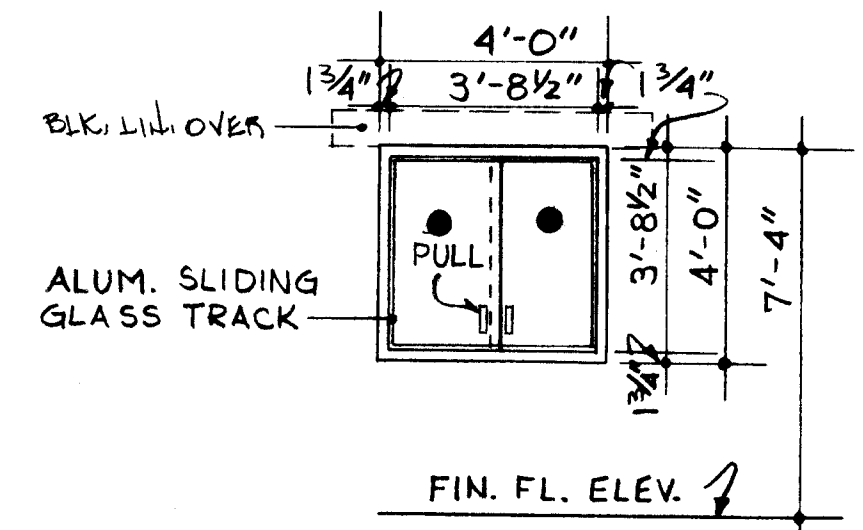
ALUMINUM



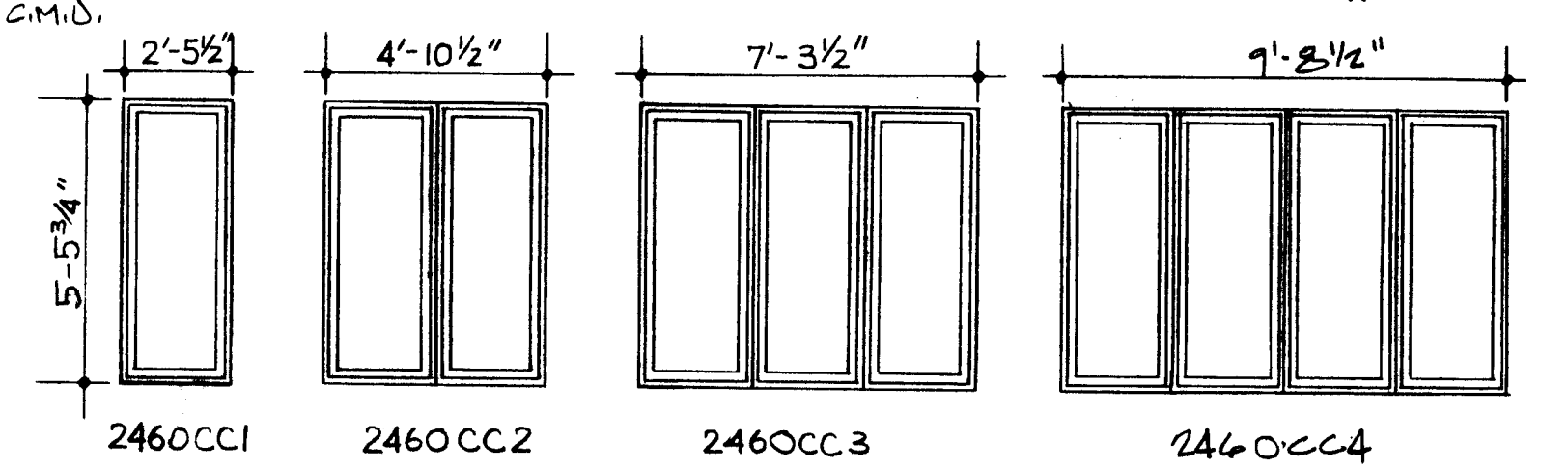
JAMB DETAILS N.T.S.



ALUMINUM WINDOW



ALUMINUM SLIDING WINDOW



CLAD CASEMENT WINDOWS

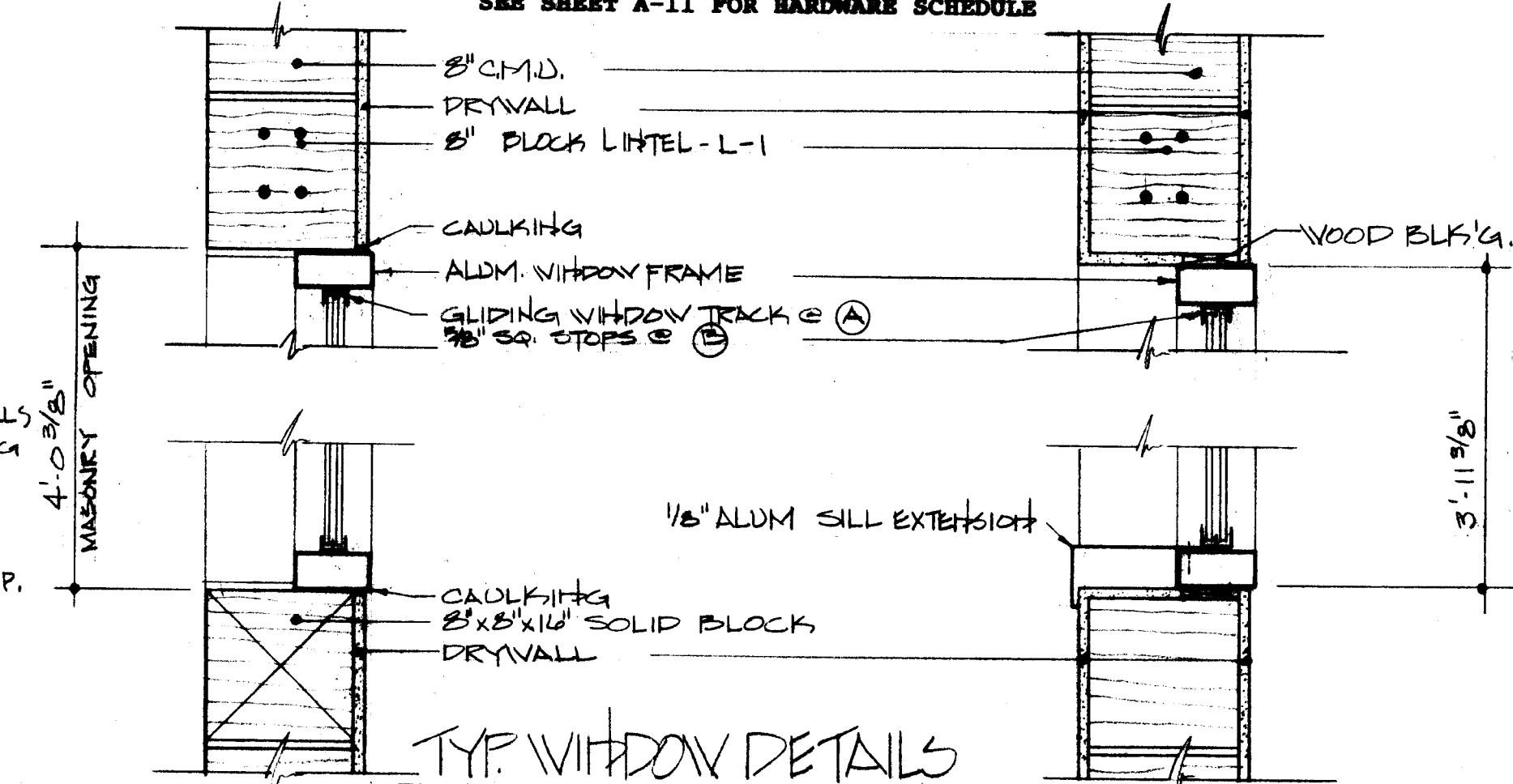
SEE SHT. A-4 FOR TYPICAL HEAD, JAMB, & SILL DETAILS.

'FELLA' WINDOWS - CLAD FIXED WINDOW W/ SLIM SHAPED TO MATCH COLOR OF WINDOW

LEGEND:  
 ▲ INSULATED TINTED TEMPERED GLASS  
 ● SAFETY GLASS, CLEAR  
 ○ LABELED WIRE GLASS  
 ⊕ FIRE DOOR.

MARK	LOCATION	TYPE	SIZE	BUCK LIN.	HDW SET	SPECIAL NOTES	REMARKS
100	EMP BRK ROOM	A	3' X 7'	B-1	L-1		
100A	EMP BRK ROOM	C	3' X 7'	B-2	L-1		
100B	EMP BRK ROOM	B	2-2' X 7'	B-3	L-1		
101	VENDING STG	D	2-6 X 7'	B-2	L-1		
102	EMPLOYEE ENTRY	A	2-3' X 7'	B-1	L-1	SECTION 1/4	SEE LINTEL L-3
102A	EMPLOYEE ENTRY	C	2-3' X 7'	B-2	L-1		
103	MEN	D	3' X 7'	B-2	L-1		
104	WOMEN	D	3' X 7'	B-2	L-1		
105	J.C.	D	2-8 X 7'	B-4	L-1		
106	LOCKER ROOM	C	3' X 7'	B-4	L-1		
106A	LOCKER ROOM	C	3' X 7'	B-4	L-1		
107	HANDICAPPED T.	D	3' X 7'	B-4	L-1		
108	CLOSET	D	3' X 7'	B-2	L-1		
109	CONFERENCE	C	3' X 7'	B-2	L-1		
110	LOBBY	A	3' X 7'	B-1	L-3		
110A	LOBBY	C	3' X 7'	B-2	L-1		
111	SHIP & REC	C	3' X 7'	B-2	L-1		
111A	SHIP & REC	C	3' X 7'	B-2	L-1		ELECT LOCK RELEASE
112	LAB	E	2-4' X 8'	B-2	L-3		
112A	LAB	E	3' X 7'	B-2	L-1		
113	PLANT MANAGER	G	3' X 7'				PART OF PART. SYSTEM
114	CONFERENCE	G	3' X 7'				PART OF PART. SYSTEM
115	OFFICE	G	3' X 7'				PART OF PART. SYSTEM
116	OFFICE	G	3' X 7'				PART OF PART. SYSTEM
117	OFFICE	G	3' X 7'				PART OF PART. SYSTEM
118	OFFICE	G	3' X 7'				PART OF PART. SYSTEM
119	OFFICE	G	3' X 7'				PART OF PART. SYSTEM
120	OFFICE	G	3' X 7'				PART OF PART. SYSTEM
121	OFFICE	G	3' X 7'				PART OF PART. SYSTEM
122	FIRST AID	G	3' X 7'				PART OF PART. SYSTEM
122A	FIRST AID	D	4' X 7'	B-2	L-1		
123	OFFICE	G	3' X 7'				PART OF PART. SYSTEM
124	OFFICE	G	3' X 7'				PART OF PART. SYSTEM
125	OFFICE	G	3' X 7'				PART OF PART. SYSTEM
126	OFFICE	G	3' X 7'				PART OF PART. SYSTEM
127	OFFICE	G	3' X 7'				PART OF PART. SYSTEM
128	SECRETARY POOL	B	2-2-6 X 7'	B-5	L-1		
128A	SECRETARY POOL	B	2-2-6 X 7'	B-5	L-1		
129	STAFF BRK ROOM	H	3' X 7'	B-6	L-1		POCKET DOOR
129A	STAFF BRK ROOM	H	3' X 7'	B-6	L-1		POCKET DOOR
130	MEN	D	2-6 X 7'	B-2	L-1		
131	WOMEN	D	2-6 X 7'	B-2	L-1		
132	STORAGE-TRASH	C	3' X 7'	B-4	L-4		1 1/2 HR 'B' LABEL
132A	STORAGE-TRASH	J	10' X 10'	METAL	L-3		ROLL UP
132B	STORAGE-TRASH	L	14X18	METAL	-		OVERHEAD
132C	STORAGE-TRASH	F	3' X 7'	B-4	L-5		
132D	STORAGE-TRASH	L	14X18	METAL	-		OVERHEAD
133	MEN	D	3' X 7'	B-4	L-4		
134	WOMEN	D	3' X 7'	B-4	L-1		
135	SPARE NO.						
136	COMP.-ELECT	E	2-4' X 8'	B-4	L-1		
137	MANUFACTURING	F	3' X 7'	B-4	L-5		
137A-D	MANUFACTURING	K	9' X 9'	METAL	-		VERT. LIFT
137E	MANUFACTURING	K	12X14	METAL	-		VERT. LIFT
137F	MANUFACTURING	F	3' X 7'	B-4	L-5		
137G-I	MANUFACTURING	K	9' X 9'	METAL	-		VERT. LIFT
137J	MANUFACTURING	F	3' X 7'	B-4	L-5		
137K	MANUFACTURING	F	3' X 7'	B-4	L-5		
137L	MANUFACTURING	I	2-2-6 X VARIES	B-7	-		AT MEZZANINE
137M	MANUFACTURING	I	2-2-6 X VARIES	B-7	-		AT MEZZANINE
137N	MANUFACTURING	I	2-2-6 X VARIES	B-7	-		AT MEZZANINE
137O	MANUFACTURING	I	2-2-6 X VARIES	B-7	-		AT MEZZANINE
137P	MANUFACTURING	I	3' X VARIES	B-7	-		AT MEZZANINE
138	TRAINING ROOM	C	3' X 7'	B-2	-		
138A	TRAINING ROOM	C	3' X 7'	B-2	-		

SEE SHEET A-11 FOR HARDWARE SCHEDULE

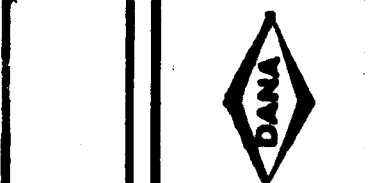


TYP. WINDOW DETAILS

CAMERON L. WOLFE, JR. AIA  
 architects  
 MARION, VIRGINIA



SPICER UNIVERSAL JOINT DIVISION  
 DANA CORPORATION  
 BRISTOL, VIRGINIA



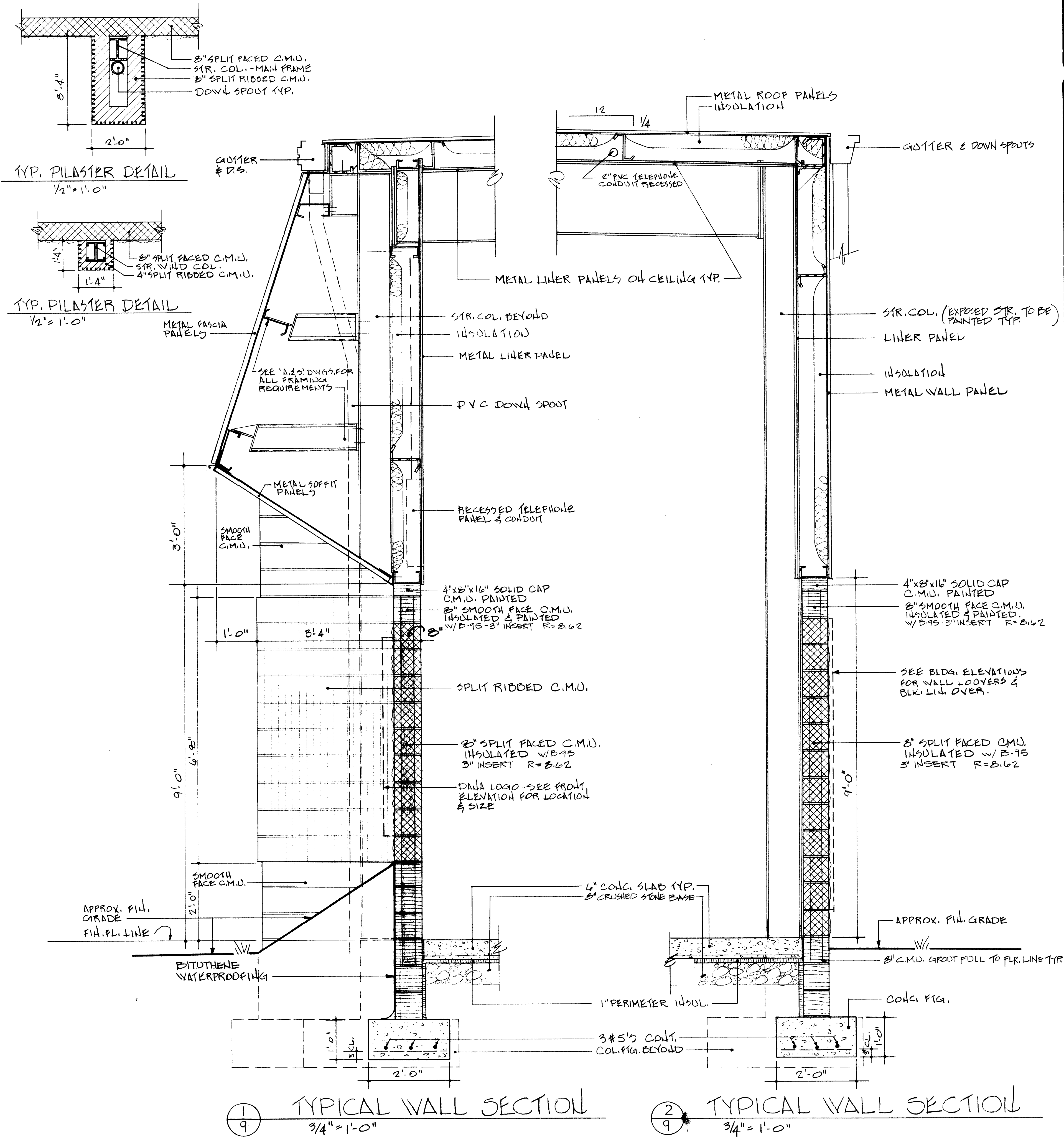
DRAWING  
 20-8-88  
 4-8-88  
 DATE

1-11-10  
 A-8  
 OF  
 27-94  
 COMM

FINISH SCHEDULE

SPACE NAME & NO.	FLOOR	BASE	WALLS	CLG.	CL. HT.	REMARKS
EMPLOY. BREAK ROOM 100	S.V.	V.T.	DW 1	A.T.	9'-0"	
VENDING STORAGE 101	S.V.	V.T.	CMU1	A.T.	9'-0"	
EMPLOYEE ENTRY 102	S.V.	V.T.	DW 1	A.T.	9'-0"	
MEN 103	S.V.	V.T.	CMU2	DW2	9'-0"	
WOMEN 104	S.V.	V.T.	CMU2	DW2	9'-0"	
J.C. 105	S.V.	V.T.	CMU2	A.T.	9'-0"	
LOCKER 106	S.V.	V.T.	CMU2	A.T.	9'-0"	
HANDICAPPED TOILET	S.V.	V.T.	CMU2	A.T.	9'-0"	
CLOSET 108	S.V.	V.T.	CMU1	A.T.	9'-0"	
CONFERENCE 109	CARPET	V.T.	DW 1	A.T.	9'-0"	
LOBBY 110	S.V.	V.T.	DW 1	A.T.	9'-0"	
SHIPPING & REC. OFFICE 111	S.V.	V.T.	DW 1	A.T.	9'-0"	
LAB 112	S.V.	V.T.	DW 1	A.T.	9'-0"	
PLANT MANAGER 113	CARPET	V.T.	DW 1	A.T.	9'-0"	NOTE 1
CONFERENCE 114	CARPET	V.T.	DW 1	A.T.	9'-0"	NOTE 1
OFFICE 115	CARPET	V.T.	DW 1	A.T.	9'-0"	NOTE 1
OFFICE 116	CARPET	V.T.	DW 1	A.T.	9'-0"	NOTE 1
OFFICE 117	CARPET	V.T.	DW 1	A.T.	9'-0"	NOTE 1
TELEPHONE EQUIPMENT 118	CARPET	V.T.	DW 1	A.T.	9'-0"	NOTE 1
OFFICE 119	CARPET	V.T.	DW 1	A.T.	9'-0"	NOTE 1
OFFICE 120	CARPET	V.T.	DW 1	A.T.	9'-0"	NOTE 1
OFFICE 121	CARPET	V.T.	DW 1	A.T.	9'-0"	NOTE 1
OFFICE 121	CARPET	V.T.	DW 1	A.T.	9'-0"	NOTE 1
OFFICE 125	CARPET	V.T.	DW 1	A.T.	9'-0"	NOTE 1
OFFICE 126	CARPET	V.T.	DW 1	A.T.	9'-0"	NOTE 1
OFFICE 127	CARPET	V.T.	DW 1	A.T.	9'-0"	NOTE 1
SECRETARY POOL 128	S.V.	V.T.	DW 1	A.T.	9'-0"	NOTE 1
STAFF BREAK ROOM 129	S.V.	V.T.	DW 1	A.T.	9'-0"	
MEN 130	S.V.	V.T.	CMU2	A.T.*	9'-0"	
WOMEN 131	S.V.	V.T.	CMU2	A.T.*	9'-0"	
STORAGE & TRASH 132	CONC.1	-	CMU1/MLP	MLP	VARIES	NOTE 3
MEN 133	S.V.	V.T.	CMU2	DW 2	9'-0"	
WOMEN 134	S.V.	V.T.	CMU2	DW 2	9'-0"	
COMPRESSOR & ELECT. EQ. 136	CONC.1	-	CMU1/MLP	MLP	VARIES	NOTE 3
MANUFACTURING 137	CONC.1	-	CMU1/MLP	MLP	VARIES	NOTE 2, NOTE 3
TRAINING ROOM 138 C.O. 96	CONC.1	-	CMU1	A.T.	9'-0"	

- CONC. 1 THE EUCLID CHEMICAL CO., "SURFLER" FLOOR HARDENER, APPLY AS PER MANUFACTURER'S PRINTED SPECIFICATIONS. 1 LB. PER SQ. FT. IN 2 APPLICATIONS, HEAVY TRAFFIC APPLICATION, NATURAL CEMENT COLOR.
- FOLLOWED BY 1 COAT "EUCOSIL," HARDENER, SEAL, AND DUST PROOFING COMPOUND AS PER MANUFACTURER'S RECOMMENDATION FOR NEWLY PLACED CONCRETE.
- AT BUILDING COMPLETION AND FINAL CLEANING, PRESSURE WASH CONCRETE FLOORS AND APPLY (2) ADDITIONAL COATS OF "EUCOSIL" AS PER MANUFACTURER'S RECOMMENDATION.
- CAUTION: PROTECT CONCRETE FLOORS DURING CONSTRUCTION FROM ANY STAINING COMPOUND THAT MIGHT DISCOLOR FLOORS.
- V.T. 4" VINYL TILE COVE BASE.
- DW 1 DRYWALL SYSTEM, 5/8" BOARD, LAMINATED TO CMU, PAINTED
- DW 2 DRYWALL SYSTEM, 5/8" BOARD, EPOXY FINISH
- A.T. ACOUSTICAL TILE CEILING SYSTEM, 2 X 2 X 5/8" PANELS EQUAL TO ARMSTRONG MINATONE CORTEGA FINISH TEGULAR LAYIN (RECESSED GRID) U.L. LISTED, U.L. RATED.
- GRID SYSTEM EQUAL TO CHICAGO 250 HD U.L. RATED, FINISH BLACK.
- CARPET DIRECT GLUE DOWN EQUAL TO DIAMOND MILLS, TOUGHWEAVE #26 LEE'S FRAC. II, 29 OZ.
- S.V. SHEET VINYL, ARMSTRONG CLASSIC CORLON SERIES, SANDOVAL
- CMU 1 CONCRETE MASONRY UNITS, PAINTED
- CMU 2 CONCRETE MASONRY UNITS, EPOXY PAINTED
- MLP METAL, PRE-FINISHED PANEL 26 GA PART OF PRE-ENGINEERED METAL BUILDING SYSTEM FOR WALLS AND CEILINGS.
- NOTE 1 "T" SERIES FLOOR TO CEILING MOVABLE WALL TO WALL PARTITION SYSTEM. TRENDWAY OR APPROVED EQUAL. SEE LAYOUT.
- NOTE 2 V.T., VINYL TILE BASE REQUIRED ON MASONRY WALLS, AROUND AREAS, LOBBY, EMPLOYEE ENTRY, LAB, OFFICE, AND SIDE OF MANUFACTURING AREA.
- NOTE 3 EXPOSED STRUCTURE SYSTEM OF PRE-ENGINEERED METAL BUILDING NOT COVERED BY METAL LINER PANELS TO BE PAINTED.
- \* CONTRACTOR HAS OPTION TO USE DRYWALL IN LIEU OF ACOUSTICAL TILE.



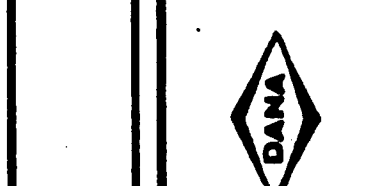
① TYPICAL WALL SECTION 3/4" = 1'-0"

② TYPICAL WALL SECTION 3/4" = 1'-0"

CAMERON L. WOLFE, JR. AIA  
architects  
MARION, VIRGINIA

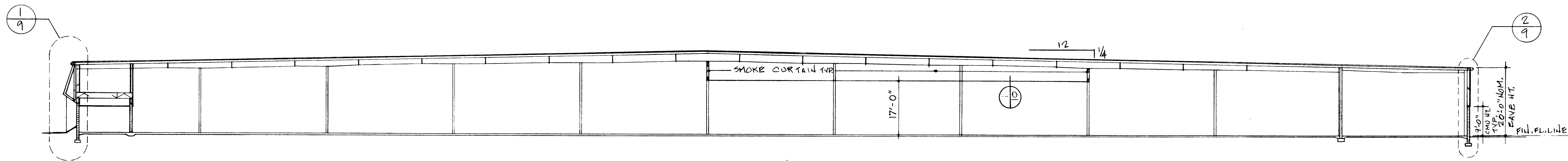


SPICER UNIVERSAL JOINT DIVISION  
DANA CORPORATION  
BRISTOL VIRGINIA

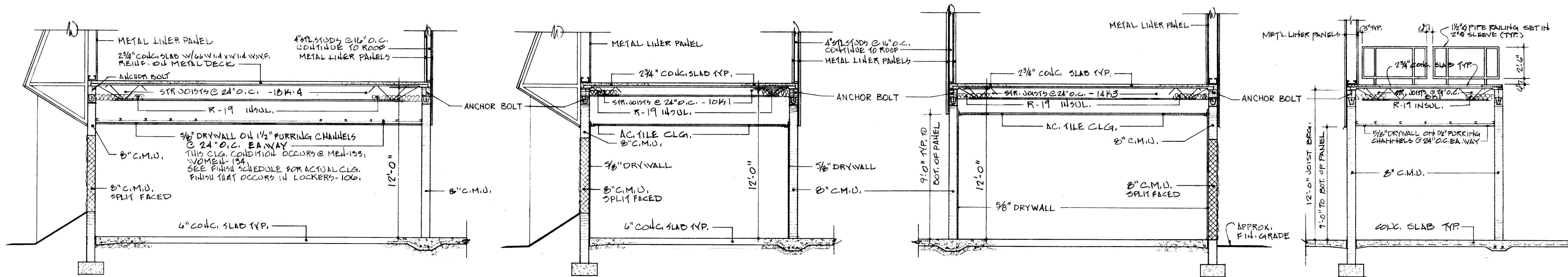


DRAWING  
020-8-CMD  
4-8-88  
DATE

1-UNIT  
OF  
A9  
BT-46  
COMM



**CROSS SECTION**  
 1/16" = 1'-0"

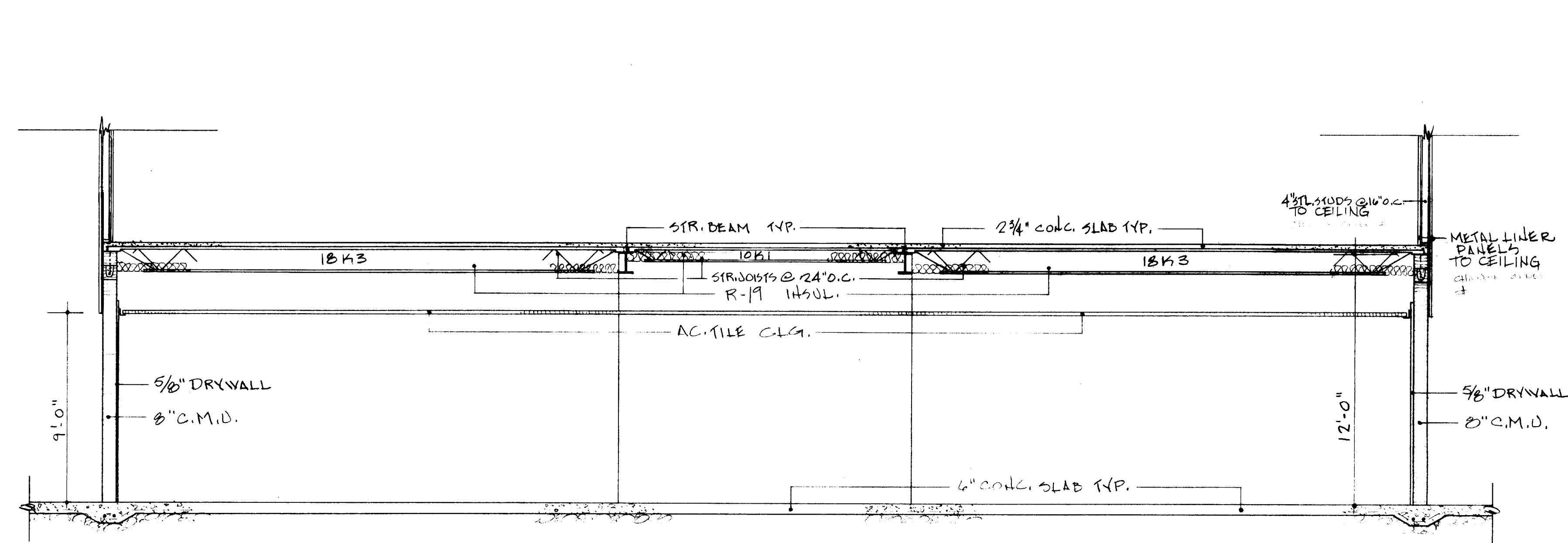


**CROSS SECTION**  
 1/4" = 1'-0"

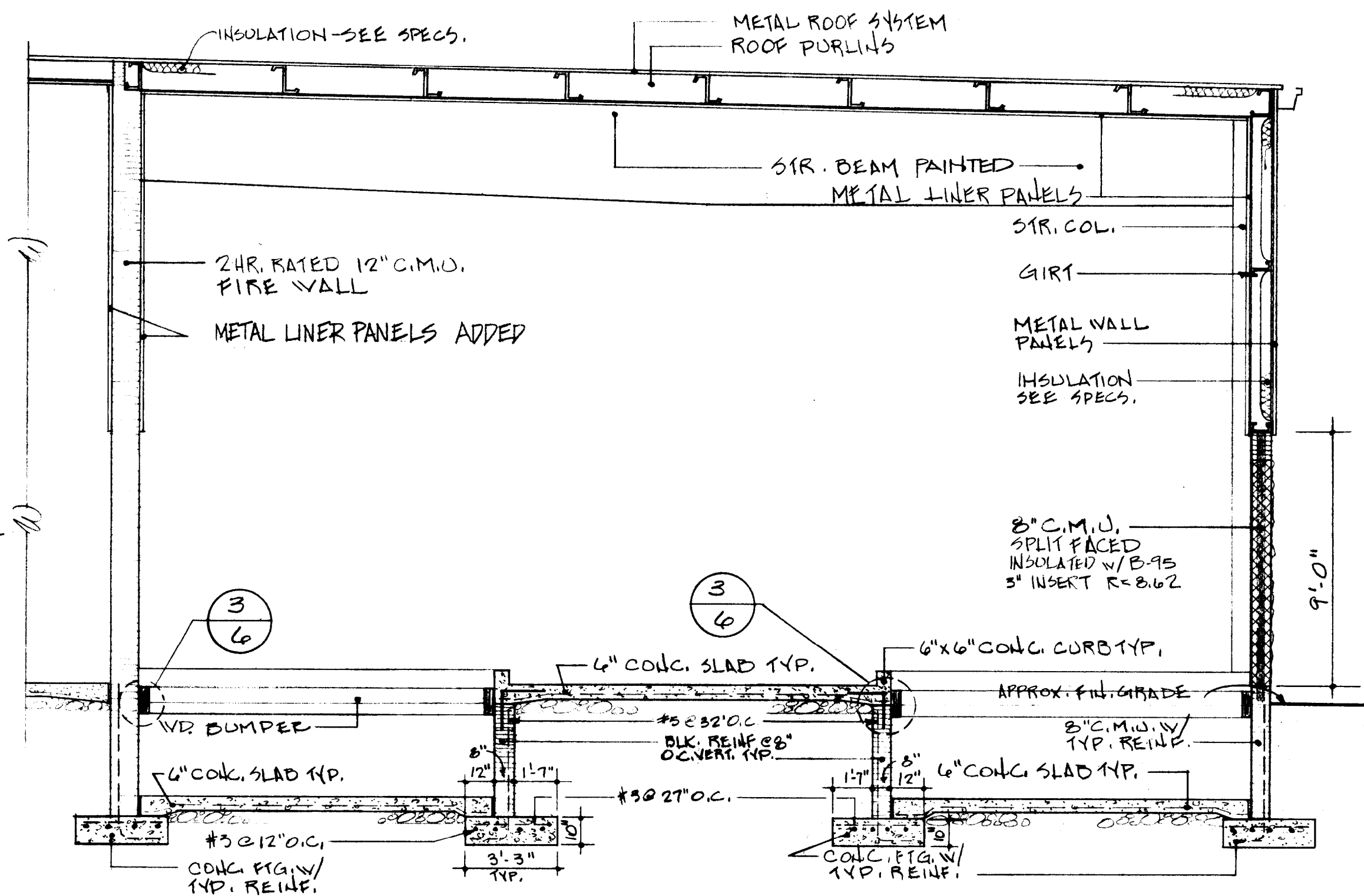
**CROSS SECTION**  
 1/4" = 1'-0"

**CROSS SECTION**  
 1/4" = 1'-0"

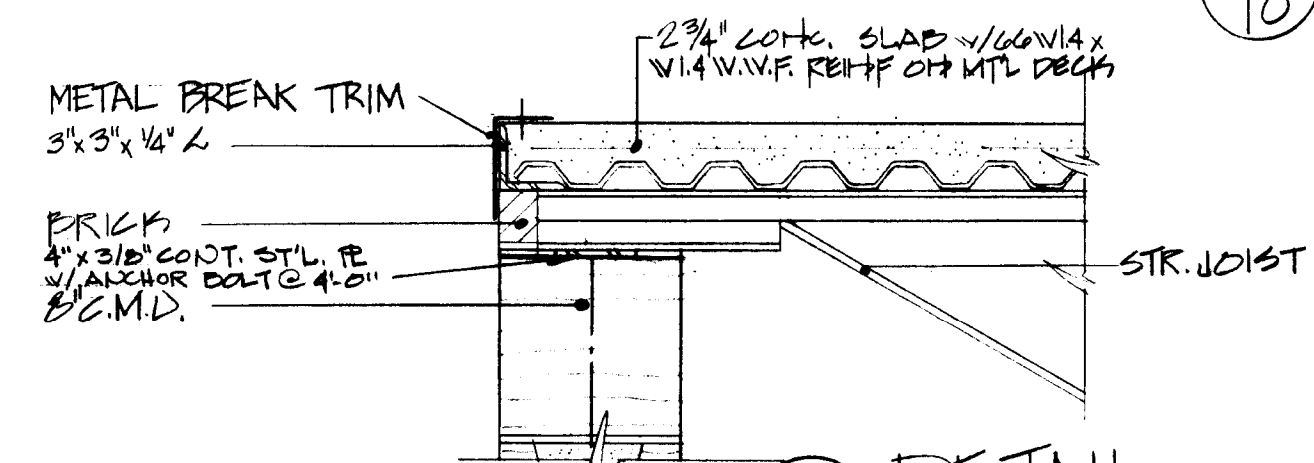
**CROSS SECTION**  
 1/4" = 1'-0"



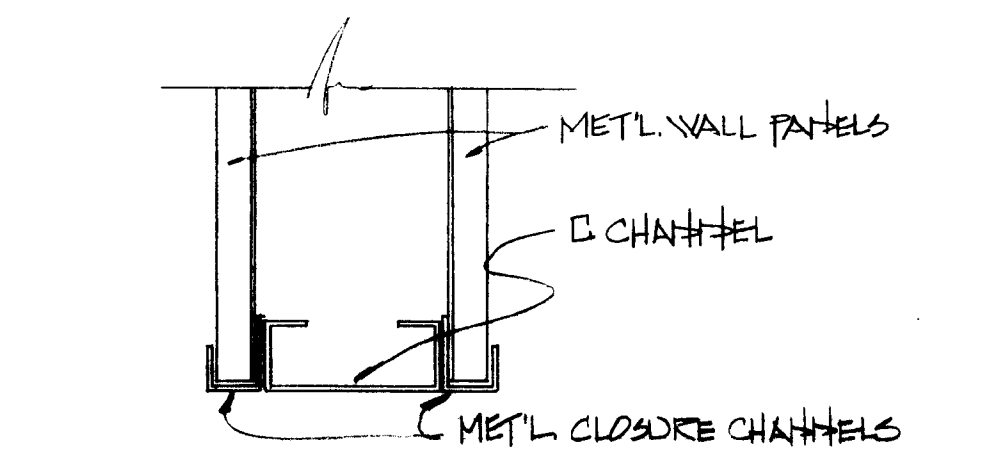
**CROSS SECTION**  
 1/4" = 1'-0"



**CROSS SECTION**  
 1/4" = 1'-0"



**DETAIL**  
 1/2" = 1'-0"



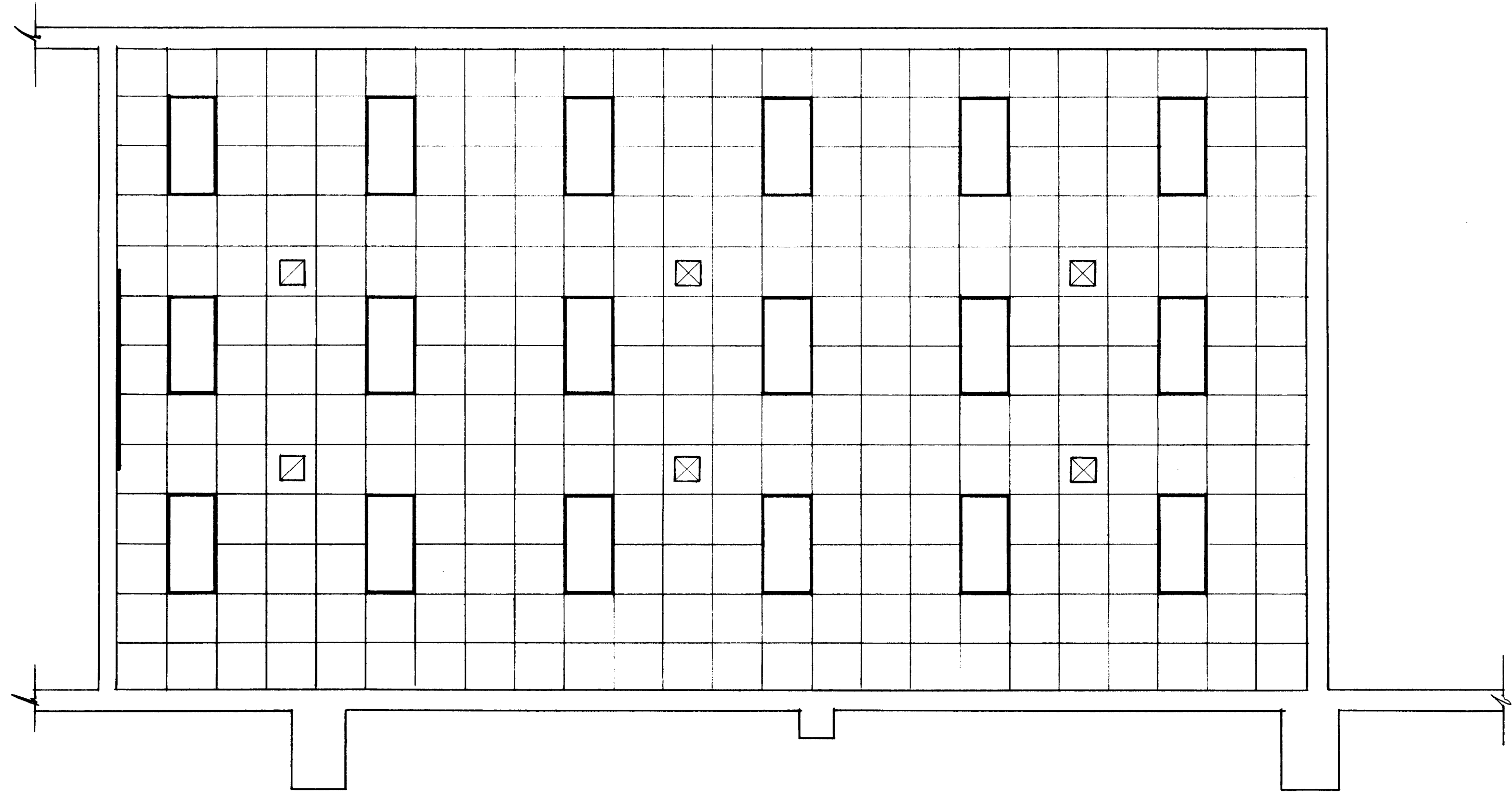
**SMOKE CURTAIN DETAIL**  
 1/2" = 1'-0"

**CAMERON L. WOLFE, JR. AIA**  
**architects**  
 MARION, VIRGINIA

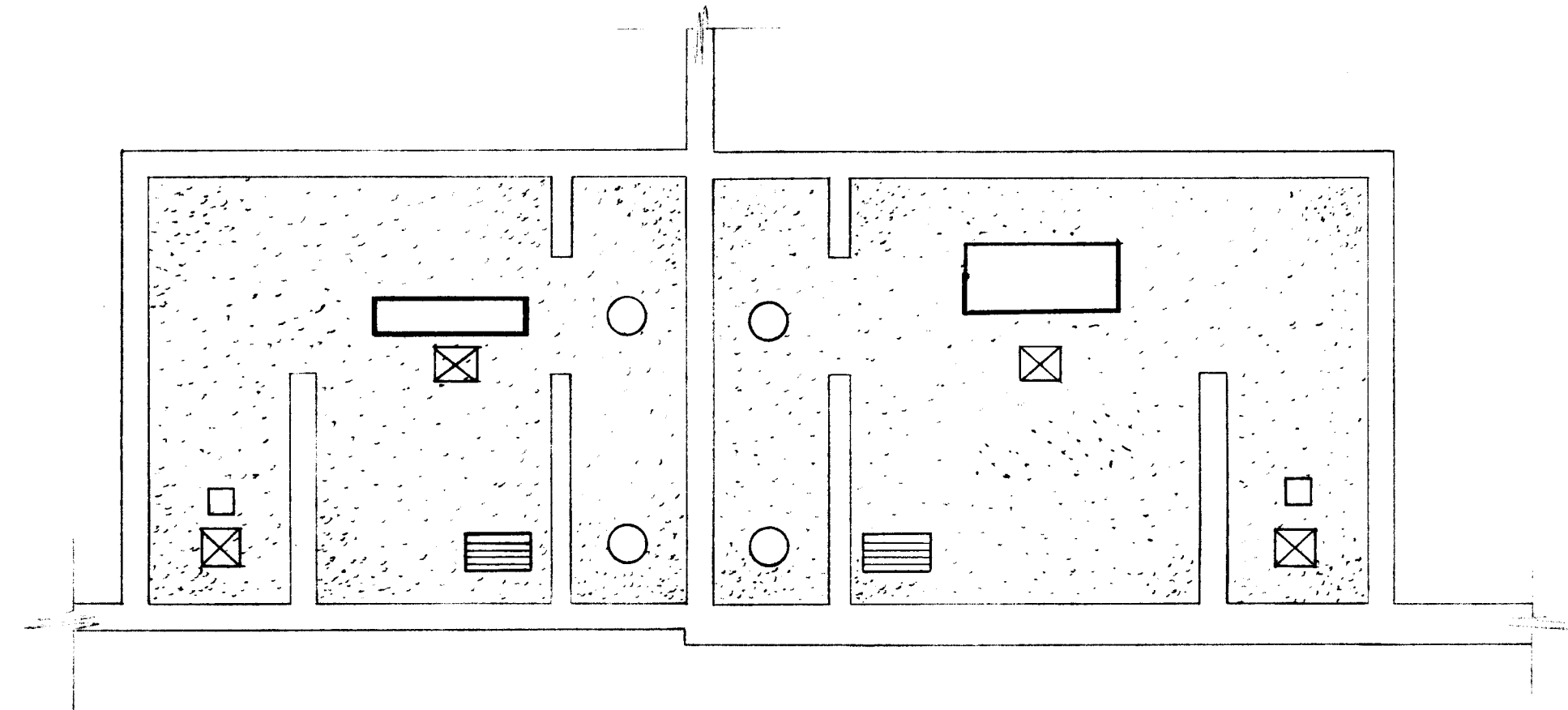
**DRAWING**  
 SPICER UNIVERSAL JOINT DIVISION  
 DANA CORPORATION  
 BRISTOL, VIRGINIA

020-B-CR3  
 4-8-88  
 DATE  
 10M020  
 COMM

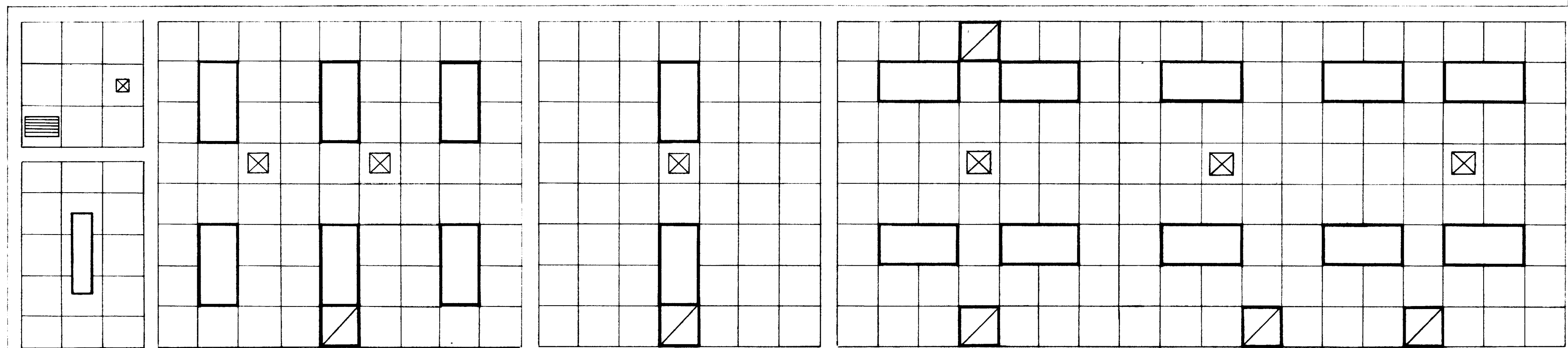




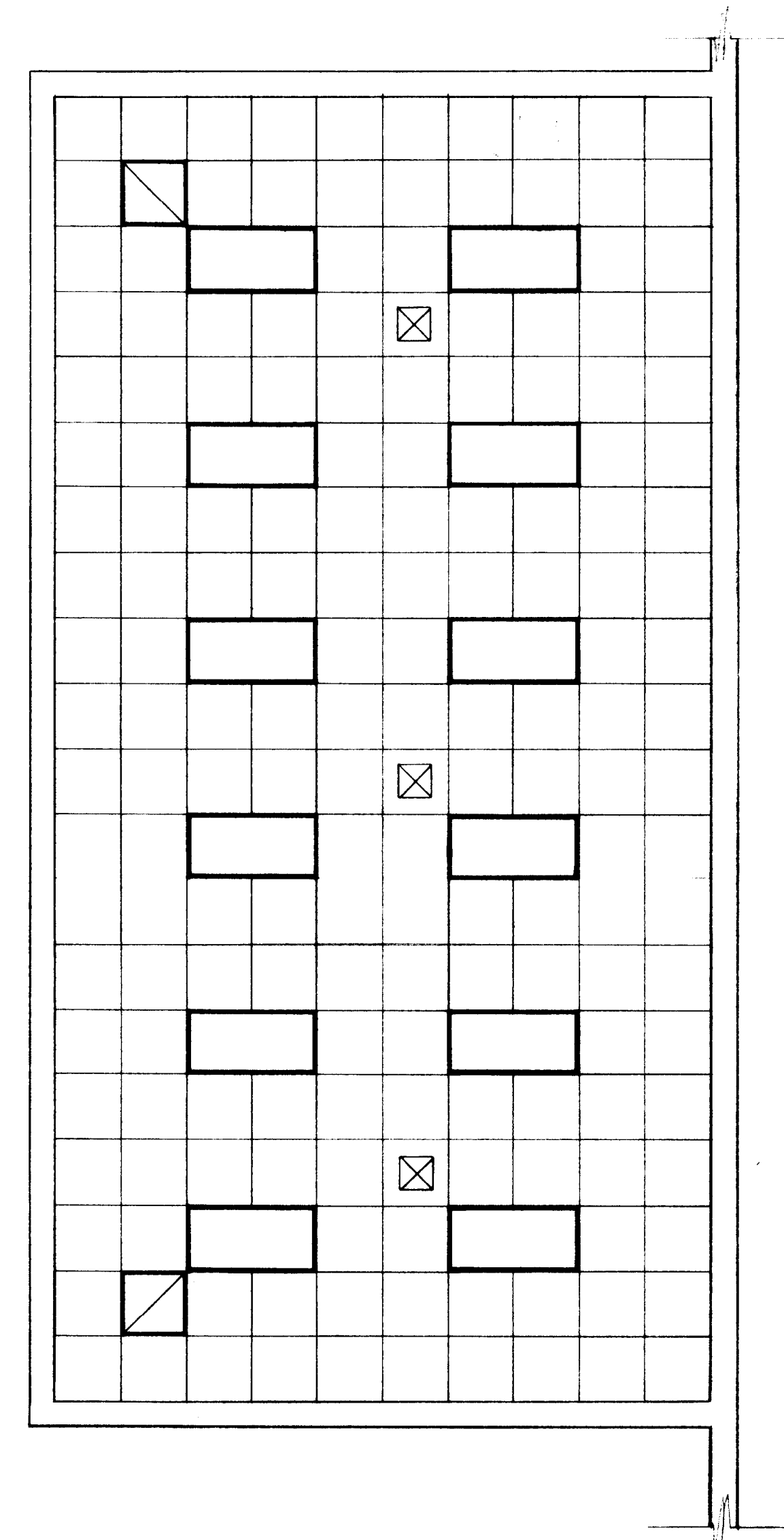
REFLECTED CEILING PLAN - TRAINING ROOM - 138  
1/4" = 1'-0"



REFLECTED CEILING PLAN -  
MEN - 133 & WOMEN - 134  
1/4" = 1'-0"



REFLECTED CEILING PLAN - CONFERENCE - 109 / LOBBY - 110 / SHIPPING & RECEIVING OFFICE - 111  
1/4" = 1'-0"

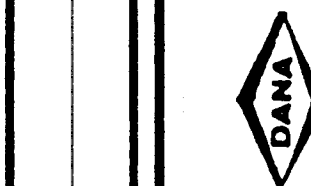


REFLECTED CEILING PLAN -  
LAB - 112  
1/4" = 1'-0"

CAMERON L. WOLFE, JR. AIA  
architects MARION, VIRGINIA



SPICER UNIVERSAL JOINT DIVISION  
DANA CORPORATION  
BRISTOL VIRGINIA



DRAWING

820-8-C-113

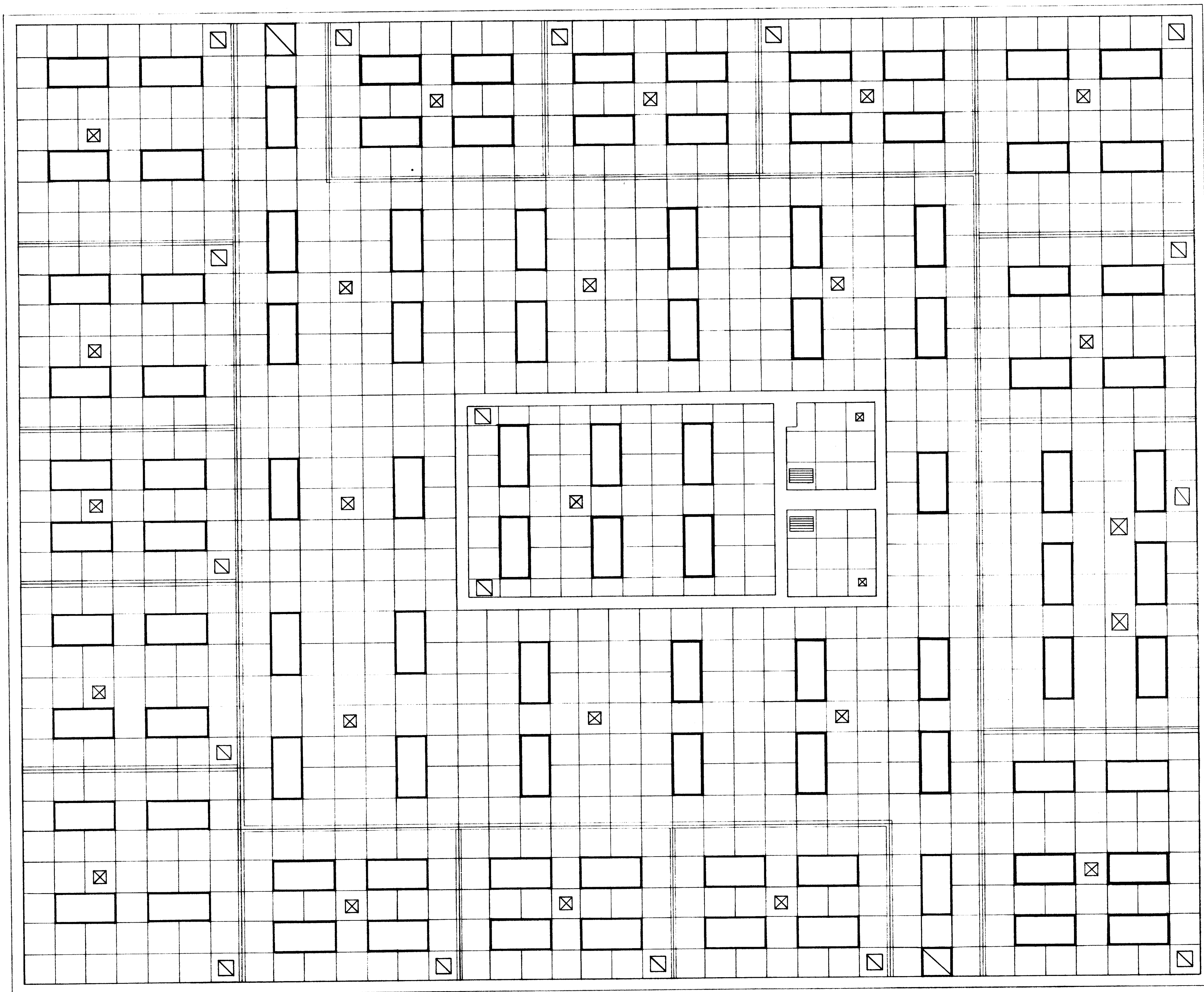
87-46

A12

4-8-88

DATE

COMM.



REFLECTED CEILING PLAN-PLANT OFFICE AREA  
 $\frac{1}{4}'' = 1'-0''$

**CAMERON L. WOLFE, JR. AIA**  
 architects MARION, VIRGINIA



SPICER UNIVERSAL JOINT DIVISION  
 DANA CORPORATION  
 BRISTOL VIRGINIA



DRAWING

020-8-C-03

11110

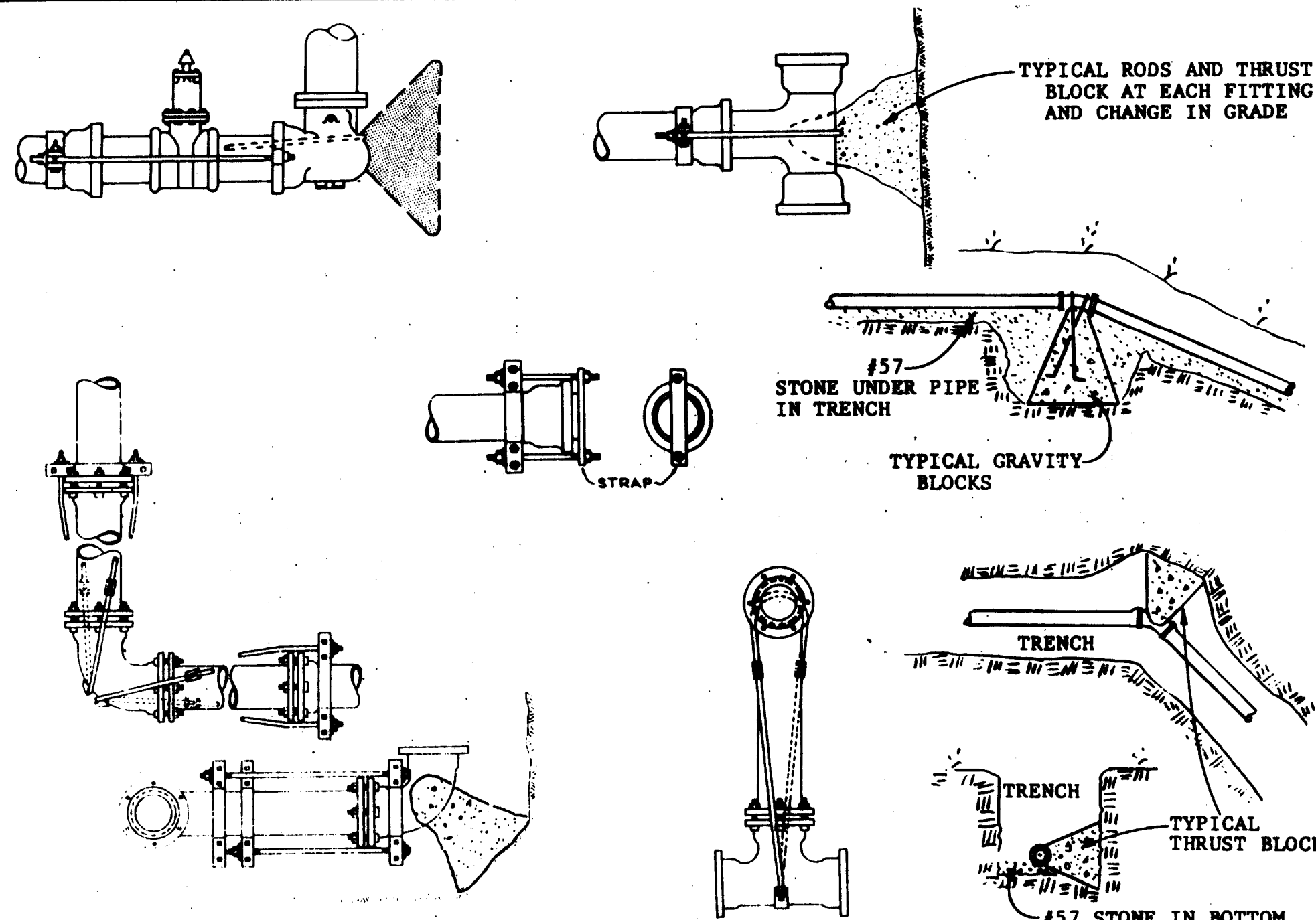
4-8-88  
 DATE

87-46  
 COMM

4-8-88  
 DATE

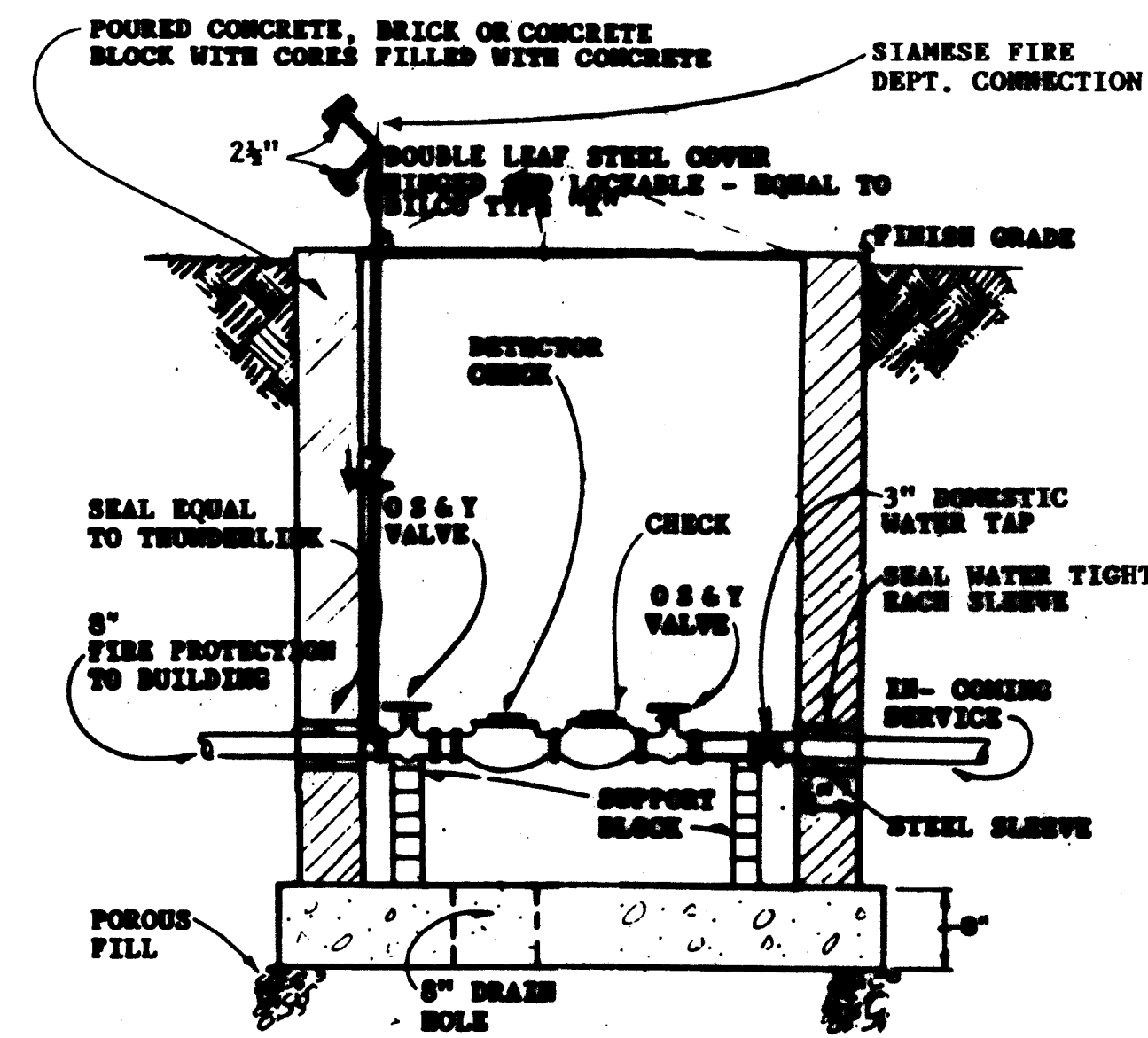
87-46  
 COMM





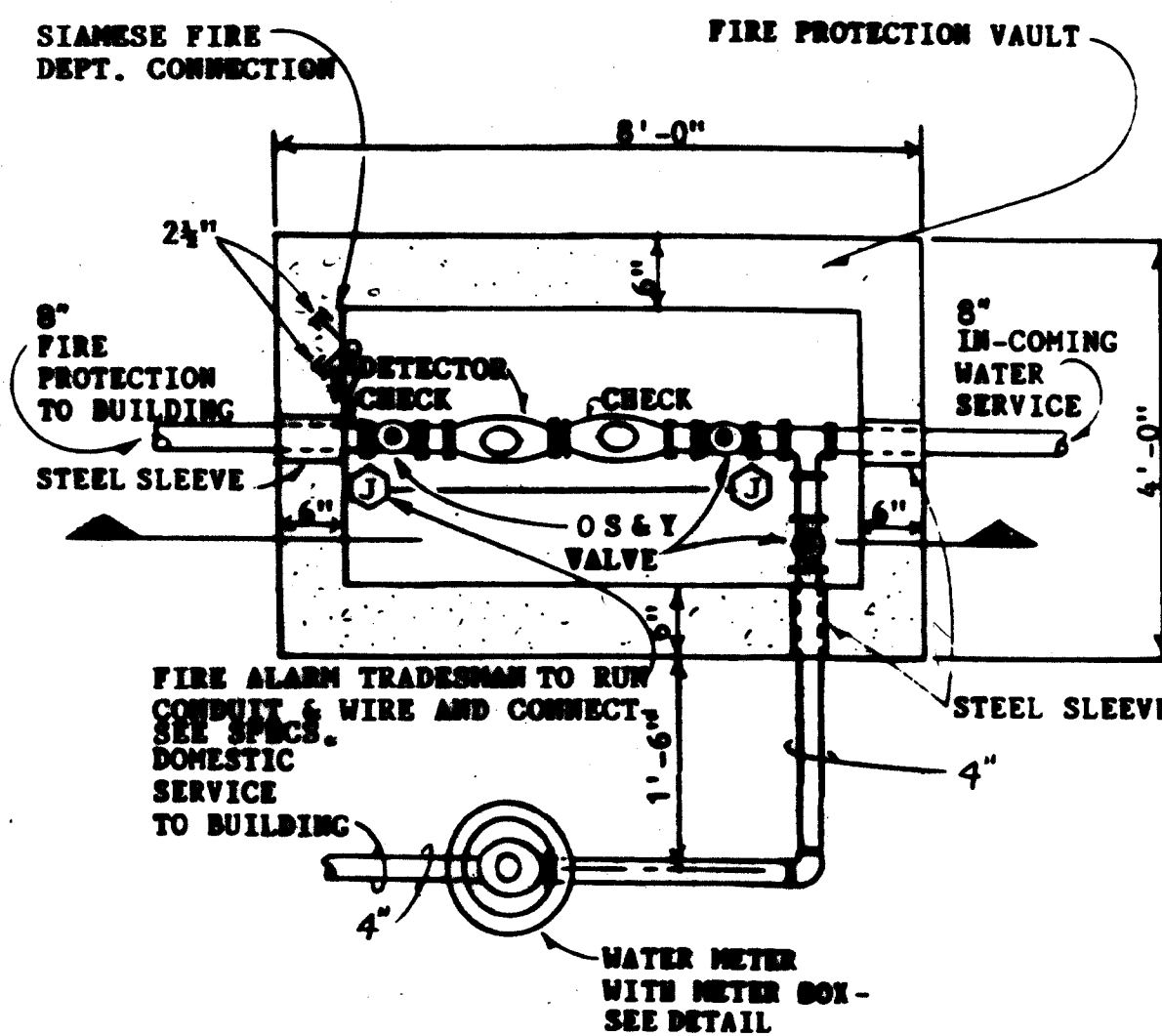
**DETAIL OF THRUST BLOCKS AND ANCHORS**

N.T.S.



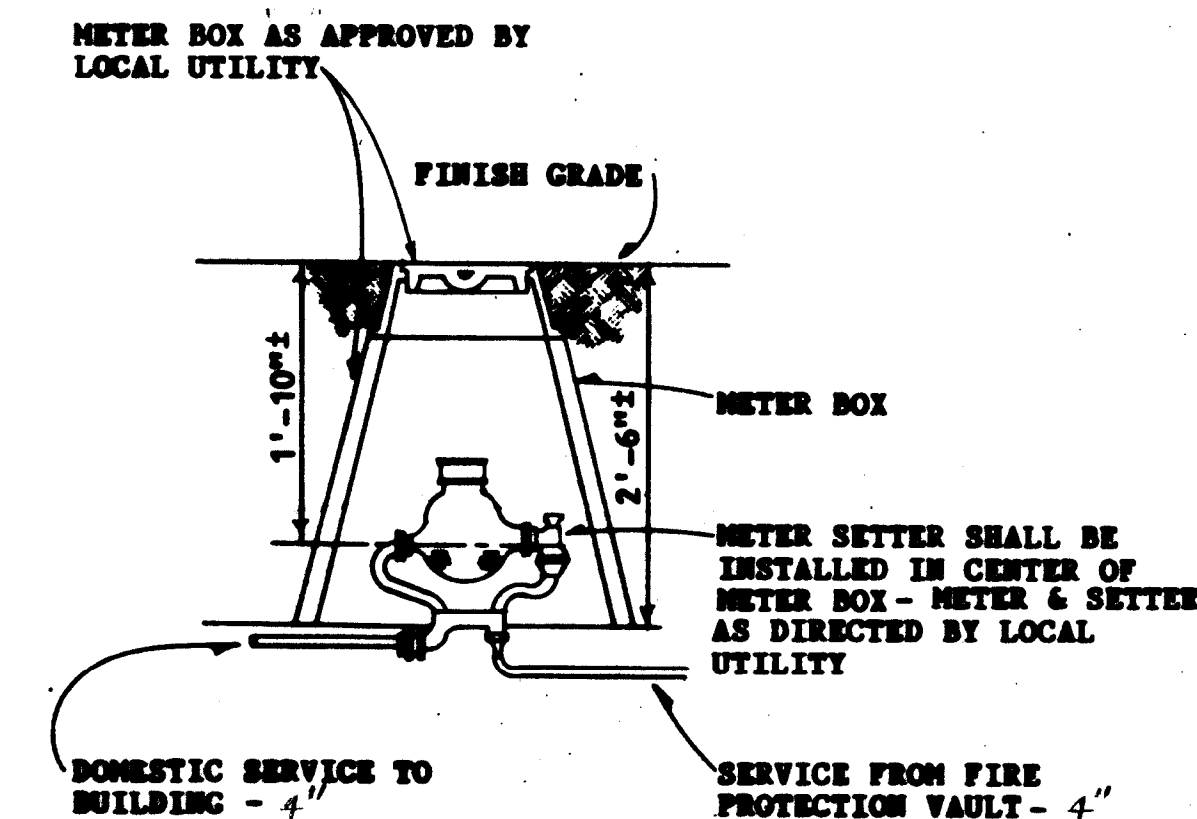
**SECTION THRU FIRE PROTECTION VAULT**

NO SCALE



**PLAN - FIRE PROTECTION VAULT**

NO SCALE



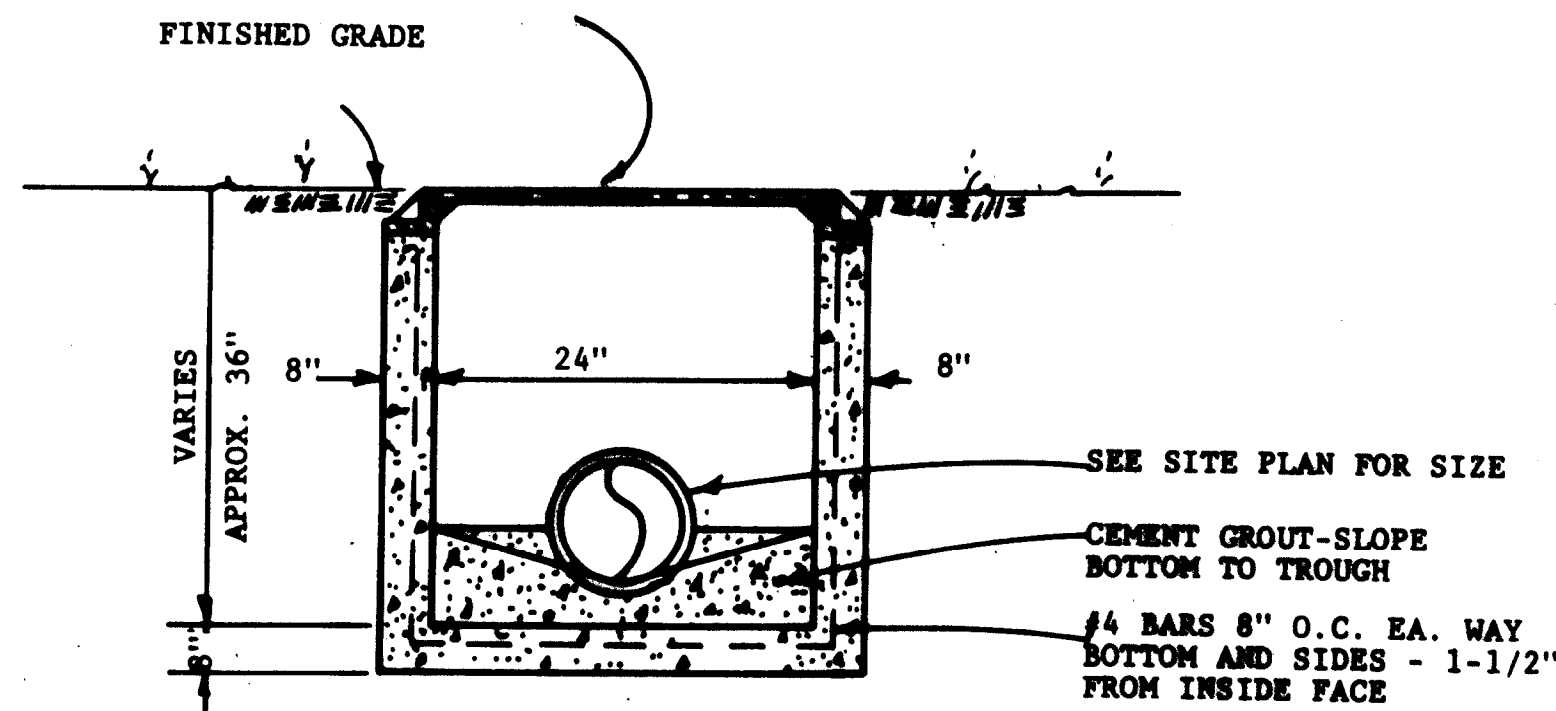
**SECTION THRU WATER METER BOX**

NO SCALE

AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS AGAINST UNDISTURBED VERTICAL TRENCH WALLS

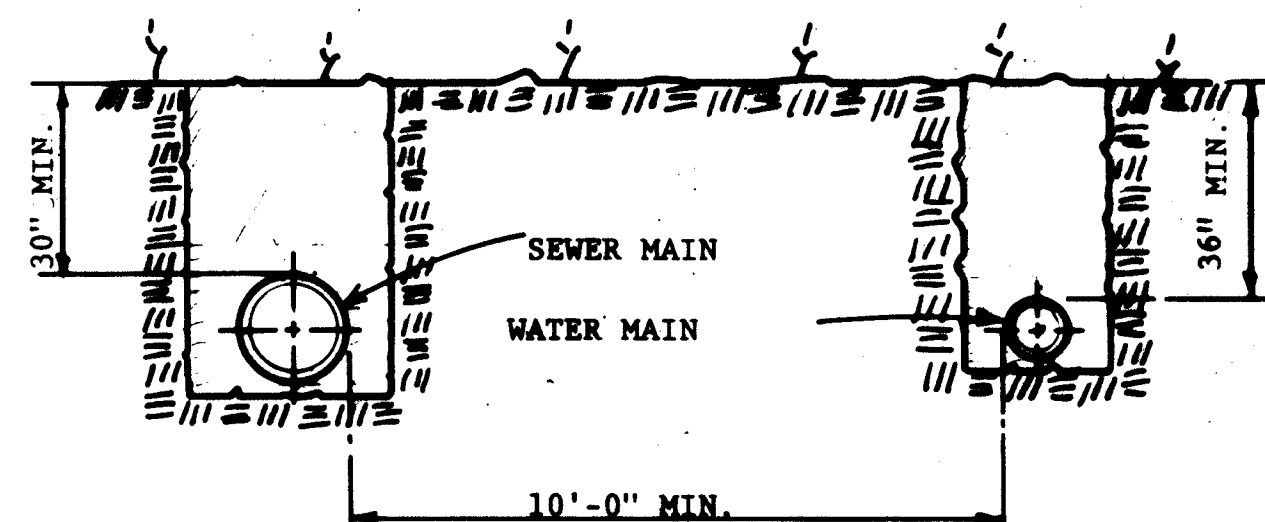
PIPE SIZE INCHES	1/4 BEND SQUARE FEET	1/8 BEND SQUARE FEET	TEES, PLUGS, CAPS AND HYDRANTS SQUARE FEET
4	2	2	2
6	5	3	4
8	8	5	6

NEENAH R-3434 CAST IRON FRAME AND GRATE  
FINISHED GRADE

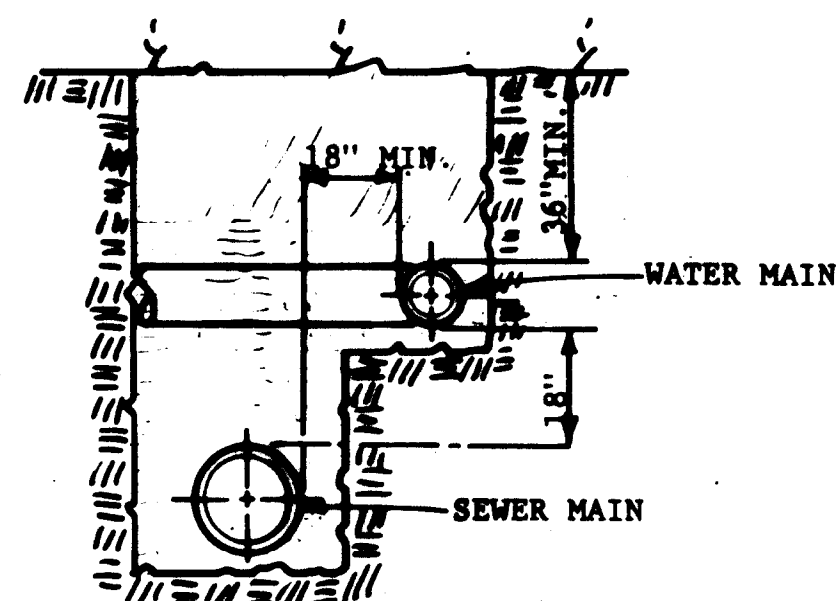


**DETAIL OF CATCH BASIN**

N.T.S.

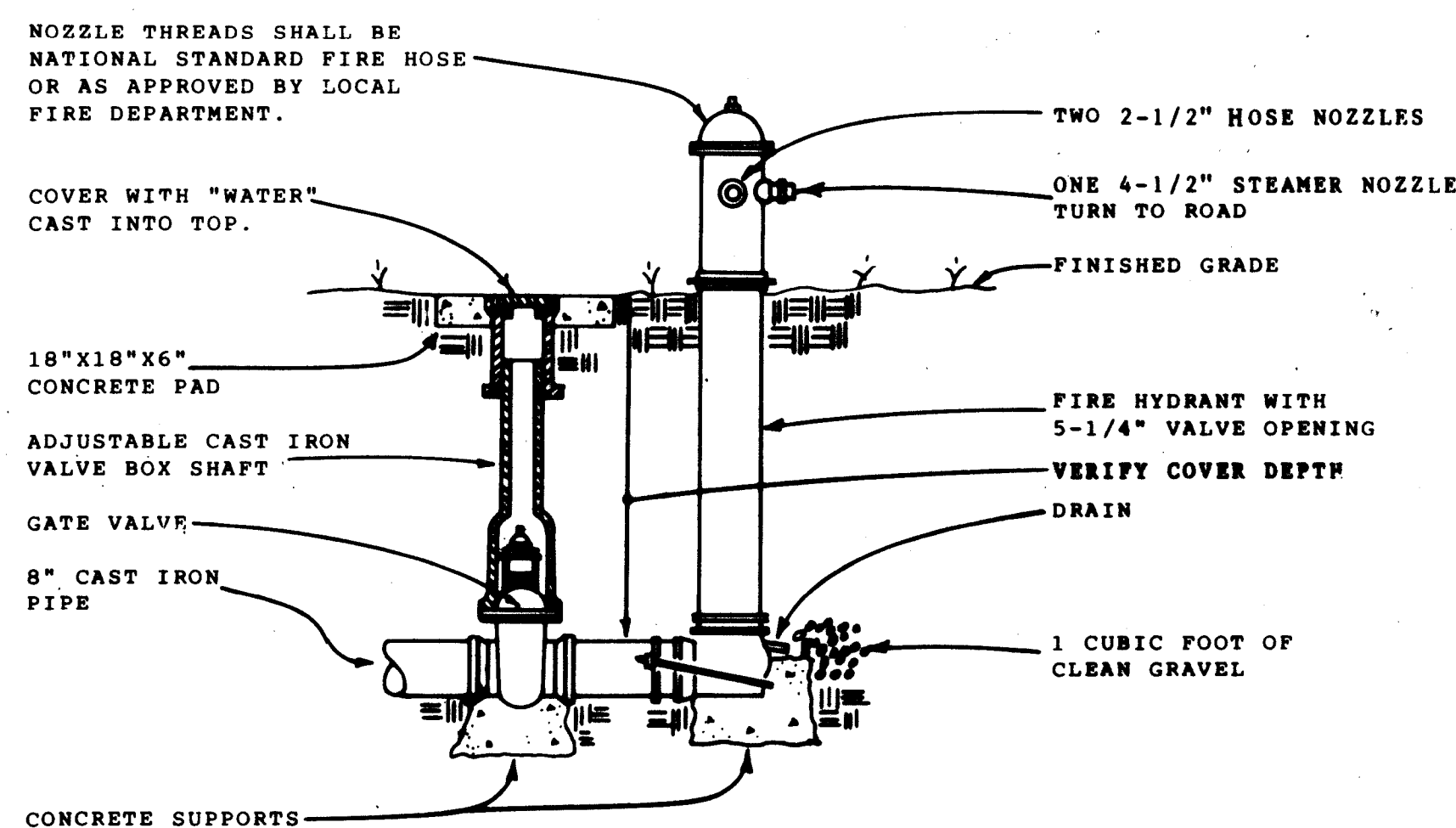


**TWO TRENCHES**



**ONE TRENCH**

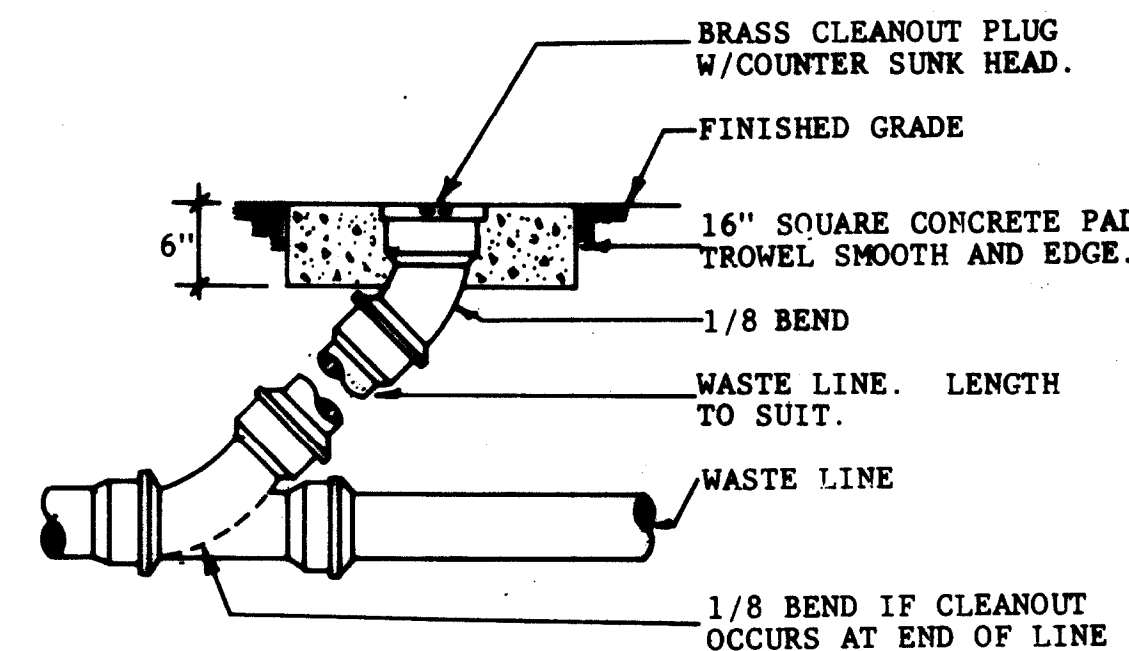
**SEPARATION OF WATER & SEWER MAINS** n.t.s.



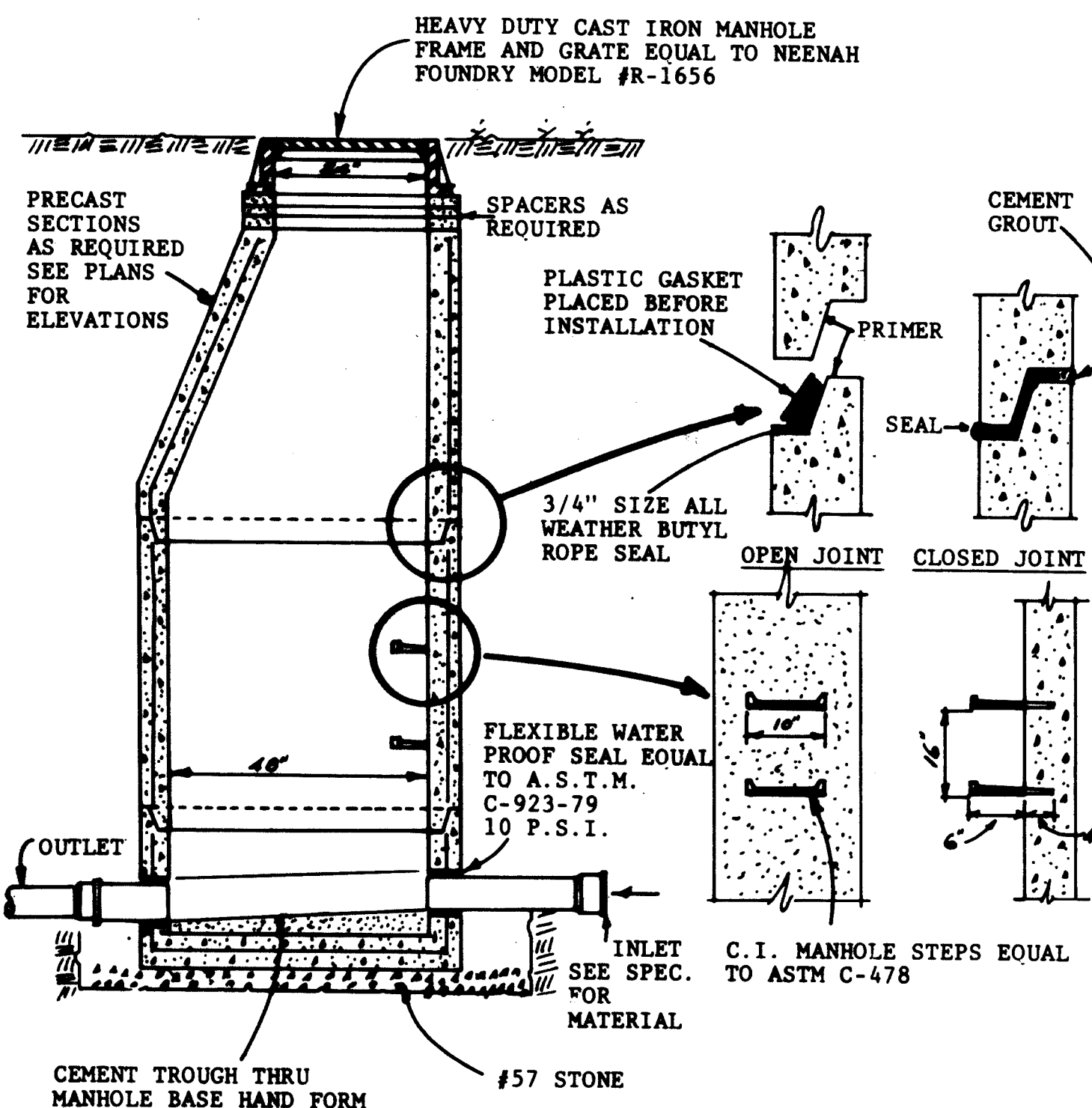
**FIRE HYDRANT DETAIL**

N.T.S.

CITY HYDRANT AS SHOWN. PRIVATE HYDRANT SAME EXCEPT NO STEAMER NOZZLE



**CLEANOUT TO GRADE**



**DETAIL OF MANHOLES** n.t.s.

*[Handwritten signature]*  
4-8-88

**CAMERON L. WOLFE, JR. AIA**  
architects  
MARION, VIRGINIA



DRAWING  
SPICER UNIVERSAL JOINT DIVISION  
DANA CORPORATION  
BRISTOL VIRGINIA

020-B-CMD  
4-8-88  
DATE  
57-46  
OF 2  
COMM