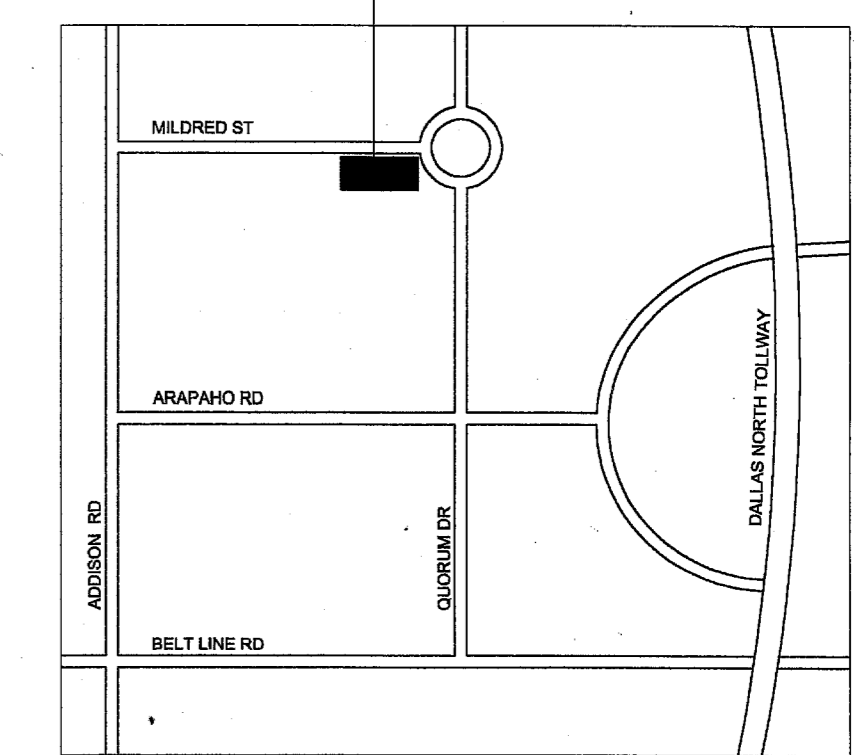


ADDISON ARTS & EVENTS DISTRICT  
**PAVILION**

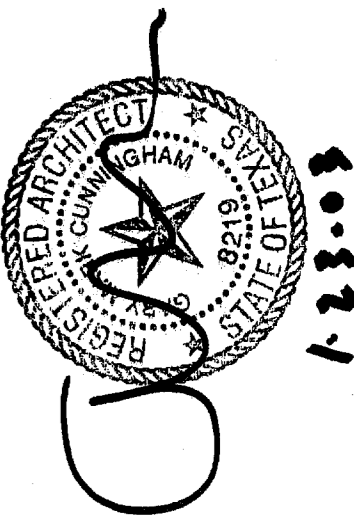
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SITE LOCATION



**Addison Arts and  
 Events Pavilion**  
 4970 Addison Circle Drive  
 Addison, Texas



**cunningham  
 architects**  
 918 Dragon Street  
 Dallas, Texas 75207  
 V 214.915.0900  
 F 214.915.0901

B15-1

date  
 08/26/02  
 11/05/02  
 01/23/03

issue  
 DD  
 50% CD  
 100% CD

B15-1



GENERAL NOTES

A. DESIGN CRITERIA

- THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2000 INTERNATIONAL BUILDING CODE.
- THE SUBSURFACE INFORMATION AND FOUNDATION DESIGN ARE BASED ON THE REPORT PREPARED BY RONE ENGINEERS, DATED FEBRUARY 5, 2002, REPORT NO. 02-5967, AND ADDENDA DATED AUGUST 16, 2002 AND OCTOBER 17, 2002. METHODS OF CONSTRUCTION FOR FOUNDATION AND OTHER PORTIONS OF THE PROJECT SHALL COMPLY WITH THIS REPORT.
 

PIER DESIGN CRITERIA:  
 DESIGNATED BEARING STRATA: UNWEATHERED LIMESTONE  
 ALLOWABLE END BEARING: 40.0 KSF  
 ALLOWABLE SKIN FRICTION: 8.0 KSF (COMPRESSION)  
 2.3 KSF (TENSION)
- THE STRUCTURE IS DESIGNED FOR WIND LOADS IN ACCORDANCE WITH THE 2000 INTERNATIONAL BUILDING CODE, USING THE FOLLOWING CRITERIA:
 

BASIC WIND SPEED 90 MPH (3-SECOND GUST)  
 EXPOSURE B  
 IMPORTANCE FACTOR 1.00

B. CONCRETE

- CONCRETE PROPORTIONING, MIXING, TRANSPORTING, PLACING, AND CURING SHALL BE PER ACI 301.
- U.N.O. CONCRETE SURFACES SHALL CONFORM TO TOLERANCE LIMITS PER ACI 117.
- U.N.O. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE SAND AND GRAVEL OR CRUSHED STONE AGGREGATES PER ASTM C33, TYPE I PORTLAND CEMENT, AND THE FOLLOWING DESIGNATED COMPRESSIVE STRENGTH IN 28 DAYS:
 

PIERS	4000 PSI (SEE ALSO NOTE B4)
GRADE BEAMS	4000 PSI
SLABS-ON-GRADE	4000 PSI (SEE ALSO NOTE B4)
ALL OTHER, U.N.O.	4000 PSI
- CONCRETE FOR PIERS SHALL BE PROPORTIONED FOR A SLUMP RANGE OF FIVE TO SEVEN INCHES. CONCRETE FOR SLABS-ON-GRADE SHALL BE PROPORTIONED FOR A SLUMP RANGE OF THREE TO FOUR INCHES, AND A MAXIMUM WATER-TO-CEMENT RATIO OF 0.40.
- CONCRETE PROTECTION FOR REINFORCEMENT, INCLUDING PRIMARY, STIRRUPS, TIES, ETC., SHALL BE AS NOTED BELOW, OR PER ACI 318 FOR CONDITIONS NOT NOTED:
 

CONCRETE PLACED AGAINST SOIL	3 INCHES
PIERS	3 INCHES
GRADE BEAMS (FORMED)	3 INCHES (BOTTOM) 2 INCHES (SIDE) 2 INCHES (TOP)
SLABS ON GRADE	2 INCHES (TOP) 2 INCHES (TOP)

- GRADE BEAM SIDES SHALL BE FORMED. NO EARTH FORMS ARE PERMITTED.
- JOINTS NOT SHOWN SHALL BE MADE AND LOCATED TO LEAST IMPAIR STRENGTH AND APPEARANCE OF STRUCTURE, AS APPROVED. NO HORIZONTAL JOINTS SHALL BE PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE NOTED. VERTICAL JOINTS SHALL OCCUR NEAR CENTERS OF SPANS AT LOCATIONS APPROVED.
- HORIZONTAL JOINTS BETWEEN ANY TWO CONCRETE PLACEMENTS SHALL BE PREPARED BY ROUGHENING THE SURFACE OF THE CONCRETE IN AN APPROVED MANNER SO THAT THE AGGREGATE SHALL BE EXPOSED UNIFORMLY LEAVING NO LAITANCE, LOOSENED PARTICLES OR DAMAGED CONCRETE.
- CONFLICTS BETWEEN SCHEDULED AND PLAN OR SECTION DIMENSIONS FOR CAST-IN-PLACE CONCRETE MEMBERS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER.
- FOR SLABS ON GRADE, THE MAXIMUM SPACING FOR CONTRACTION AND/OR ISOLATION JOINTS SHALL BE 8 FEET. THE MAXIMUM DISTANCE BETWEEN CONSTRUCTION AND/OR ISOLATION JOINTS SHALL BE 80'-0". U.N.O. ISOLATION JOINTS SHALL BE PROVIDED AT COLUMNS. PROVIDE CONCRETE SLAB ON ENGINEERED FILL AS SHOWN ON PLAN. PROVIDE ADEQUATE MEANS OF CHAIRING AND ACCESSORY STEEL AS REQUIRED TO SECURE POSITION.
- TREAT EXPOSED EDGES OF CONCRETE AS INDICATED ON ARCHITECTURAL DRAWINGS.
- PROVIDE VOIDS UNDER GRADE BEAMS AND PIER CAPS BY AN APPROVED METHOD.
- ALL CONCRETE REINFORCEMENT SHALL BE OF DOMESTIC MANUFACTURE AND SHALL CONFORM TO ASTM A615, GRADE 60, U.N.O. HEADED STUDS SHALL COMPLY WITH NOTE C5 BELOW.
- DEFORMED BAR ANCHORS (NOTED DBA ON DOCUMENTS) SHALL BE NELSON D2L OR EQUAL AS APPROVED BY THE ENGINEER, AND SHALL CONFORM TO ASTM A108. DEFORMED BAR ANCHORS SHALL BE AUTOMATICALLY END WELDED PER THE MANUFACTURER'S RECOMMENDATIONS. WHEN APPROVED BY THE ENGINEER PRIOR TO FABRICATION, DEFORMED REINFORCEMENT CONFORMING TO ASTM A706, GRADE 60 MAY BE SUBSTITUTED FOR DEFORMED BAR ANCHORS, PROVIDED THE WELDING REQUIREMENTS OF ANSI/AWS D1.4 ARE SATISFIED.
- ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO ACI 315.
- WHEN PERMITTED, WELDING OF REINFORCEMENT SHALL BE PER ANSI/AWS D1.4.
- REINFORCING BARS MAY BE SPLICED ONLY AS SHOWN ON THE DRAWINGS EXCEPT THAT REINFORCING DESIGNATED AS "CONTINUOUS" MAY BE LAP SPLICED 40 BAR DIAMETERS. LAP SPLICES OF CONTINUOUS REINFORCEMENT IN BEAMS AND TWO-WAY SLABS SHALL BE MADE OVER THE SUPPORT FOR BOTTOM BARS AND AT MID-SPAN FOR TOP BARS.
- ALL SLEEVES, INSERTS, ANCHORS, AND EMBEDDED ITEMS REQUIRED FOR ADJOINING WORK SHALL BE VERIFIED BY CONTRACTOR AND SHALL BE IN PLACE PRIOR TO CONCRETING.

C. STRUCTURAL STEEL

- ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
 

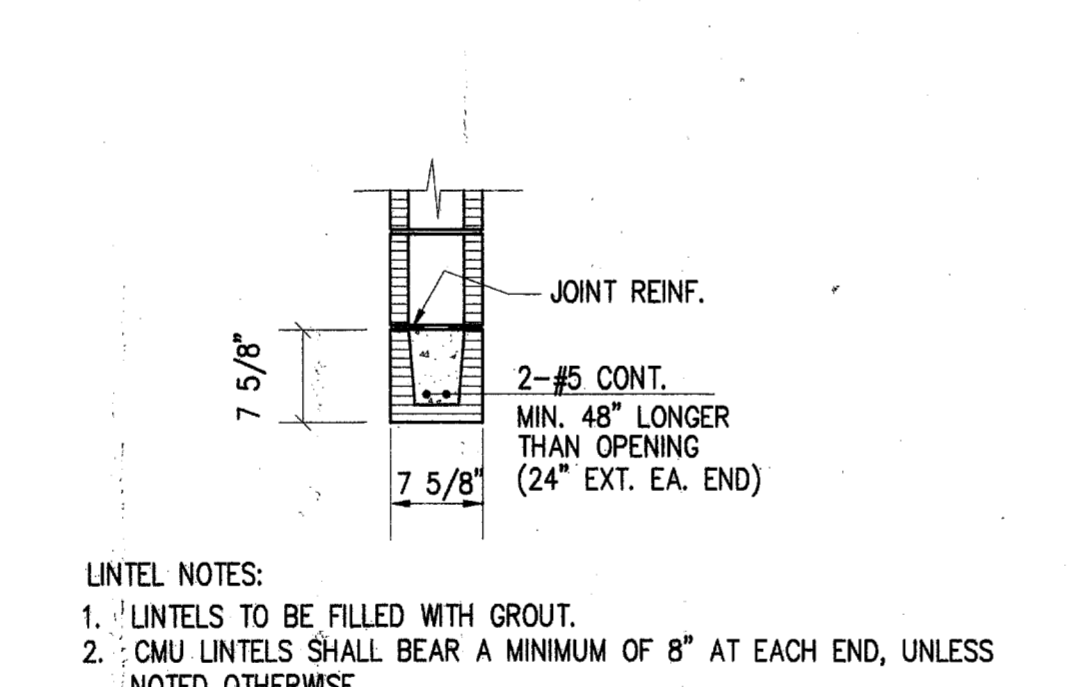
ASTM A992, GRADE 50, W SHAPES  
 ASTM A572, GRADE 50, S, M, HP, AND C SHAPES, U.N.O.  
 ASTM A36, PLATES, ANGLES, AND MISCELLANEOUS FRAMING, U.N.O.
- ALL STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A501 OR A53.
- ALL STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE B.
- ALL CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL CONFORM TO ASTM A325, U.N.O.
- HEADED STUDS SHALL COMPLY WITH ASTM A108, AND SHALL BE AUTOMATICALLY END WELDED PER THE MANUFACTURER'S RECOMMENDATIONS.
- WELDING OF STRUCTURAL STEEL SHALL BE PER AWS D1.1, LATEST EDITION. E70T4 AND E70T7 ELECTRODES SHALL NOT BE USED FOR ANY WELDING CONDITION.
- FABRICATION OF STRUCTURAL STEEL SHALL BE PER AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AND AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- U.N.O. BEAM TO BEAM AND BEAM TO COLUMN SHEAR CONNECTIONS SHALL BE DESIGNED FOR THE SHEAR CAPACITY OF THE CONNECTED BEAM, OR THE REACTION INDICATED ON THE PLAN, WHICHEVER IS GREATER. THE SHEAR CAPACITY SHALL BE DEFINED AS EQUAL TO 1/2 OF THE TABULATED ALLOWABLE UNIFORM LOADS GIVEN IN PART 2, TABLE "ALLOWABLE LOADS ON BEAMS" OF THE AISC MANUAL.
- SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT SPECIFIC PRIOR APPROVAL.
- ALL STEEL BEAMS SHALL BE ERECTED WITH CAMBER AS INDICATED ON DRAWINGS, AND ALL BEAMS SHALL BE ERECTED WITH NATURAL CAMBER UP.
- STRUCTURAL STEEL SHALL BE PRIMED IN THE FIELD PER DIVISION 9, SECTION PAINTING.

E. CONCRETE MASONRY UNITS

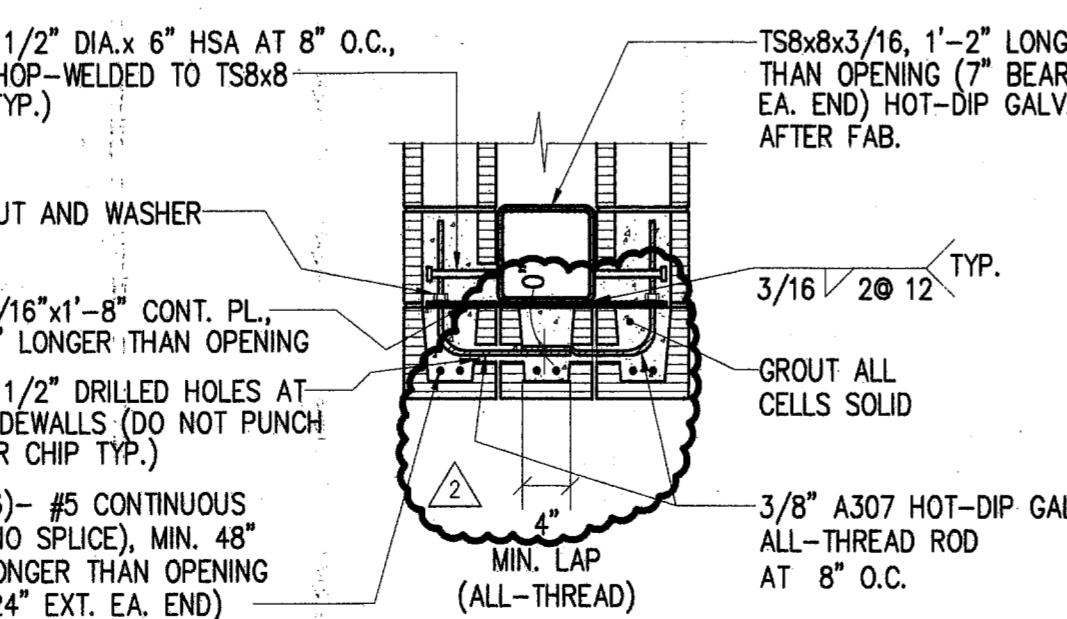
- ALL CONCRETE MASONRY UNITS SHALL BE ASTM C90 GRADE 'N', TYPE I.
- 28-DAY GROUT STRENGTH SHALL BE 2500 PSI MINIMUM.
- MORTAR SHALL BE TYPE 'S' OR 'M'.
- PROVIDE STANDARD JOINT REINFORCING AT 16" O.C.
- LAP ALL REINFORCING BARS 60 BAR DIAMETERS.
- DOWELS INTO GRADE BEAMS OR FOOTINGS SHALL MATCH SIZE AND SPACING OF VERTICAL REINFORCING.
- GROUT MINIMUM OF TWO CELLS WITH SCHEDULED VERTICAL REINFORCING IN EACH CELL AT EACH SIDE OF ALL OPENINGS.
- ALL CMU SHALL BE LAID IN RUNNING BOND.

F. CAD FILES

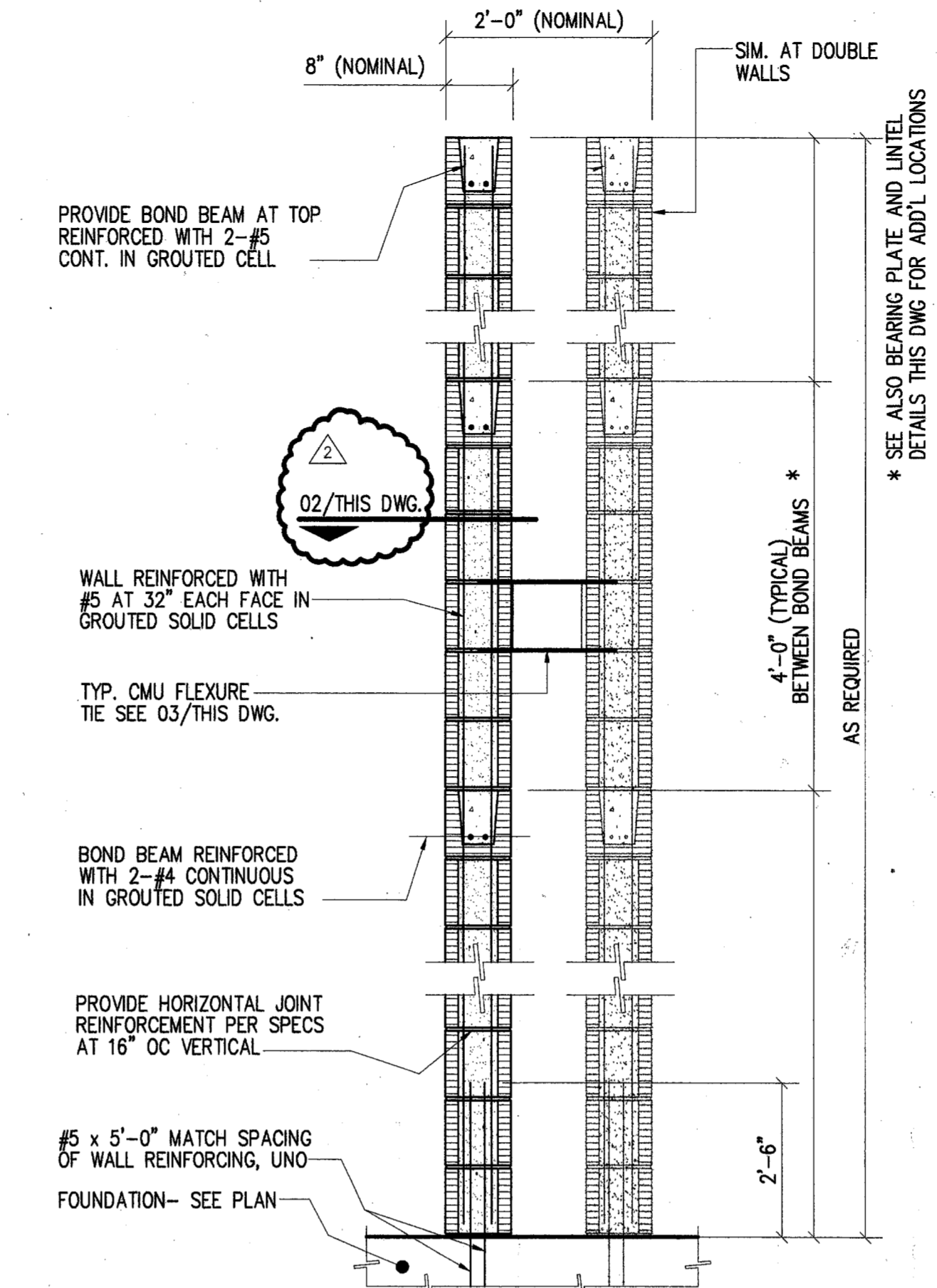
- THE CAD FILES ON WHICH THESE DRAWINGS ARE BASED WILL NOT BE RELEASED TO THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS WITHOUT A WRITTEN AGREEMENT AND COMPENSATION. SAID AGREEMENT WILL NOT BE EXECUTED WITHOUT THE OWNER'S AND ARCHITECT'S PERMISSIONS. SAID AGREEMENT WILL BE STRICTLY BETWEEN THE CONTRACTOR AND/OR HIS SUBCONTRACTORS, AND WILL NOT INVOLVE EITHER THE OWNER OR THE ARCHITECT.



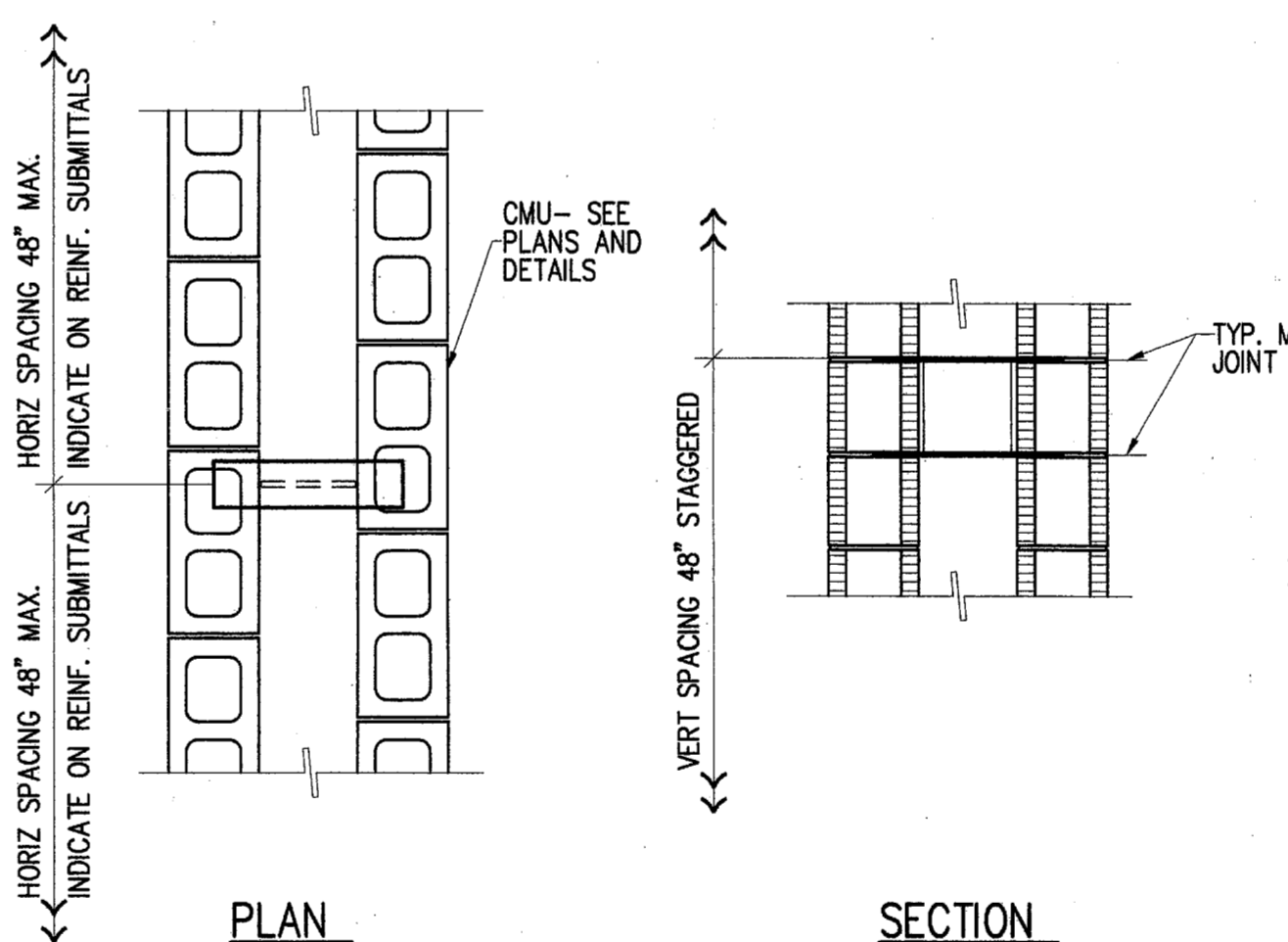
04 TYP. 8" CMU WALL LINTEL  
SCALE: 3/4" = 1'-0"



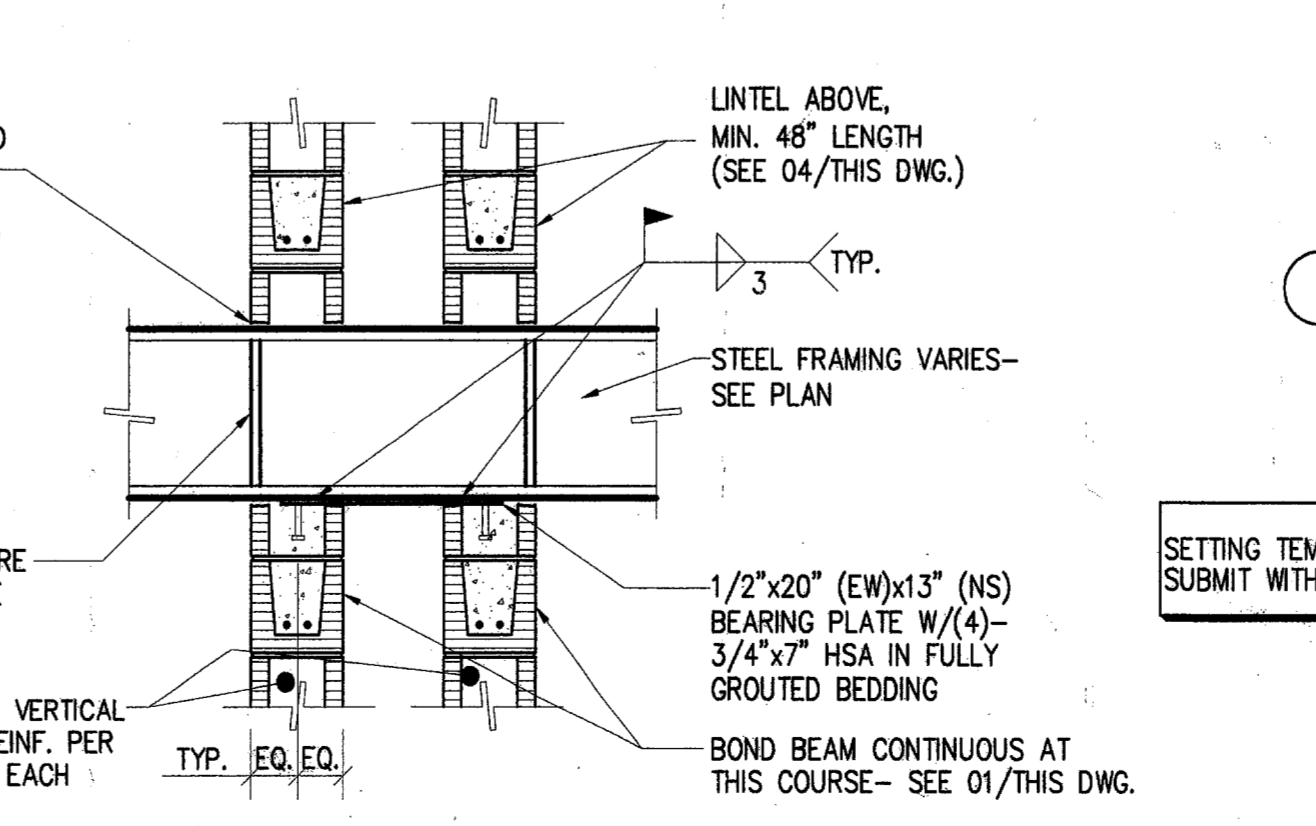
05 TYP. 24" CMU WALL LINTEL  
SCALE: 3/4" = 1'-0"



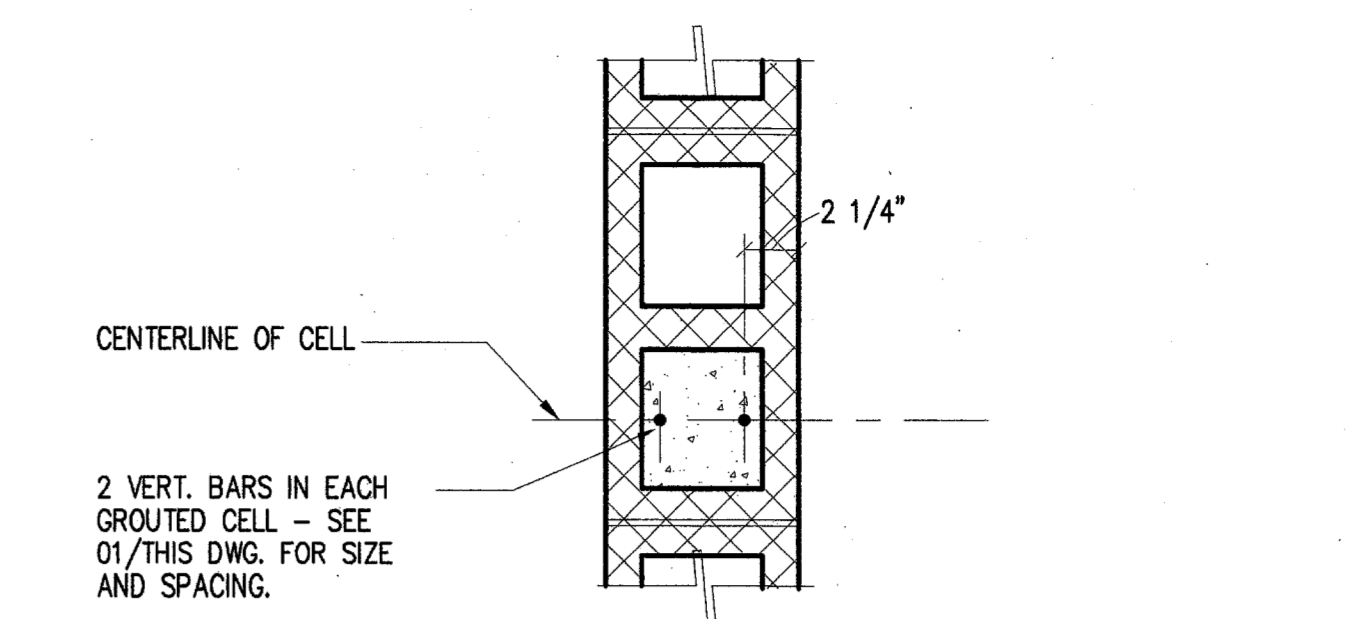
01 TYPICAL CMU WALL REINFORCING  
NOT TO SCALE



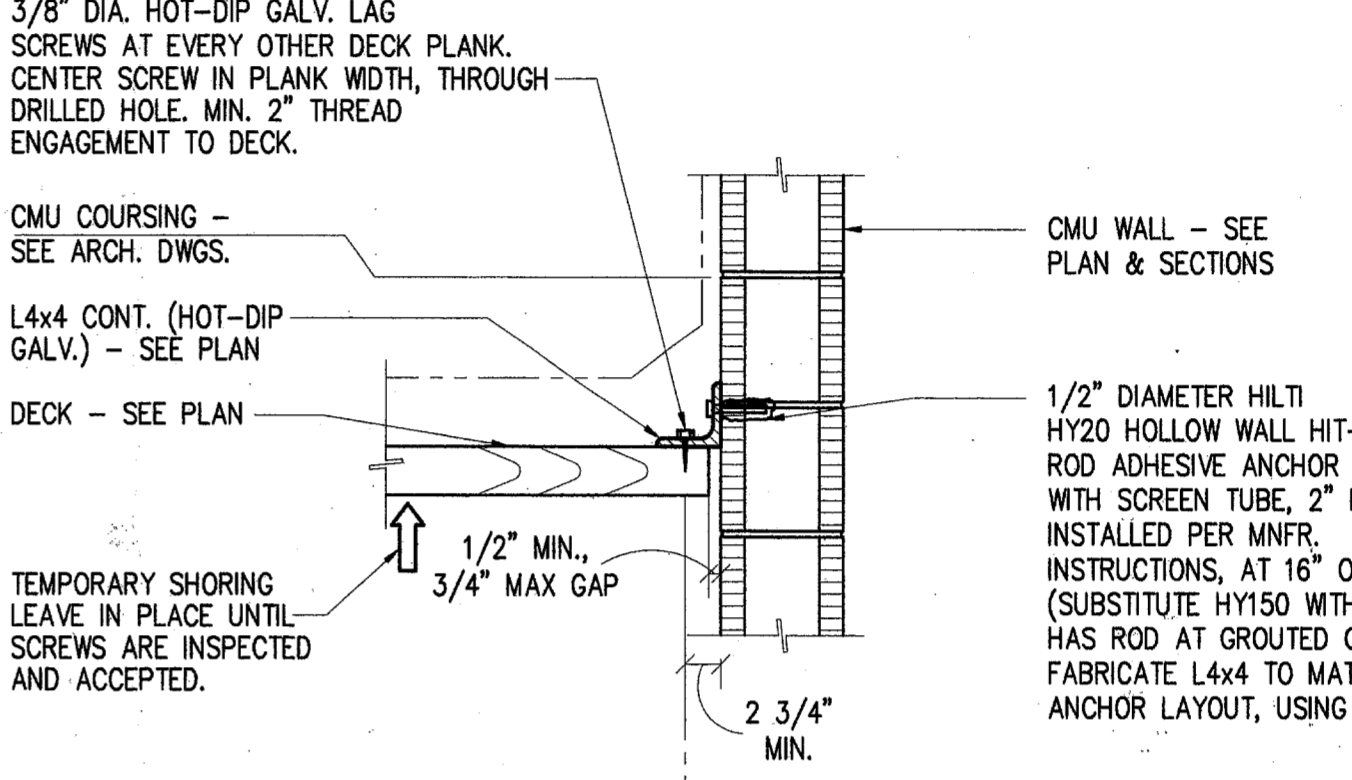
03 TYP. CMU FLEXURE TIE DETAIL  
NOT TO SCALE



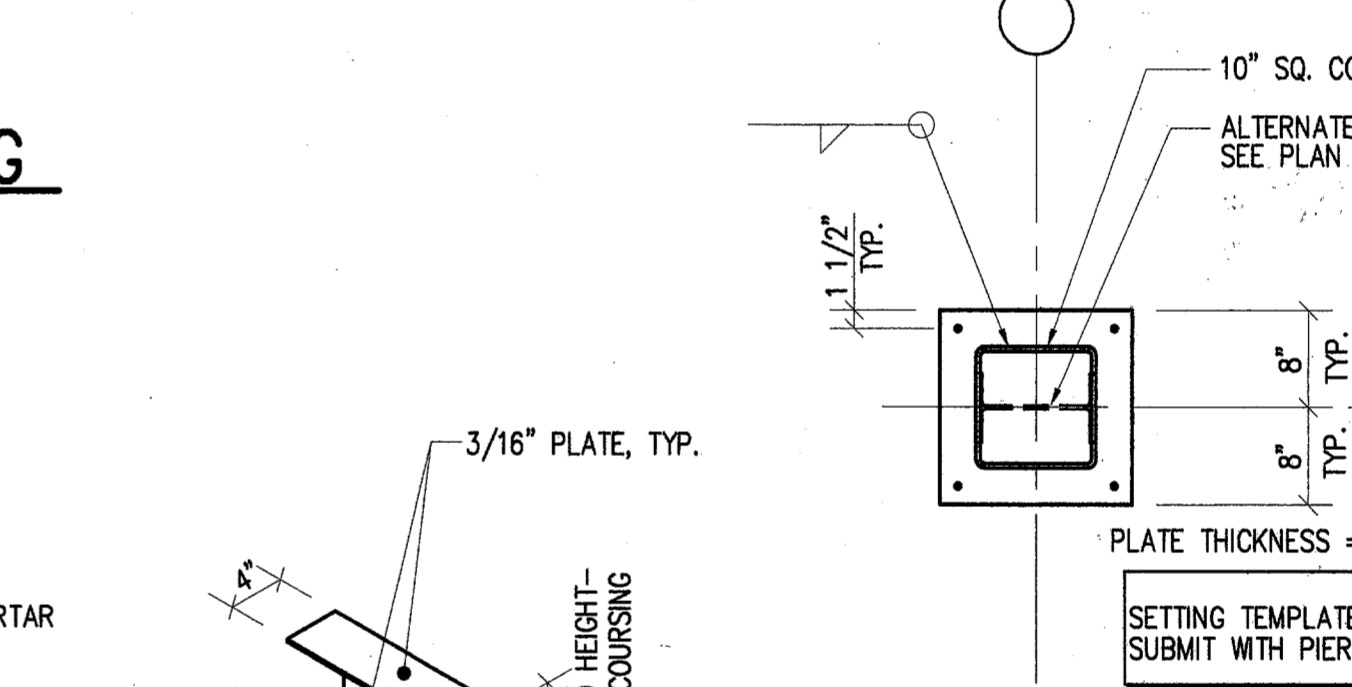
07 BEARING PLATE BP1



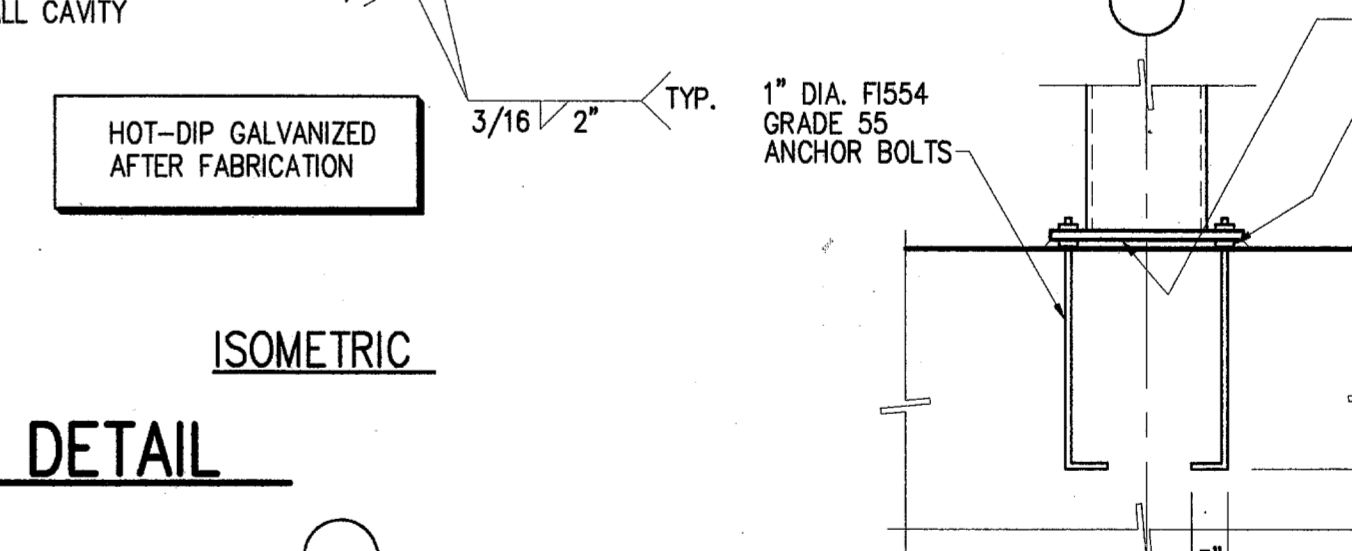
02 TYP. CMU VERT. BAR PLACEMENT  
NOT TO SCALE



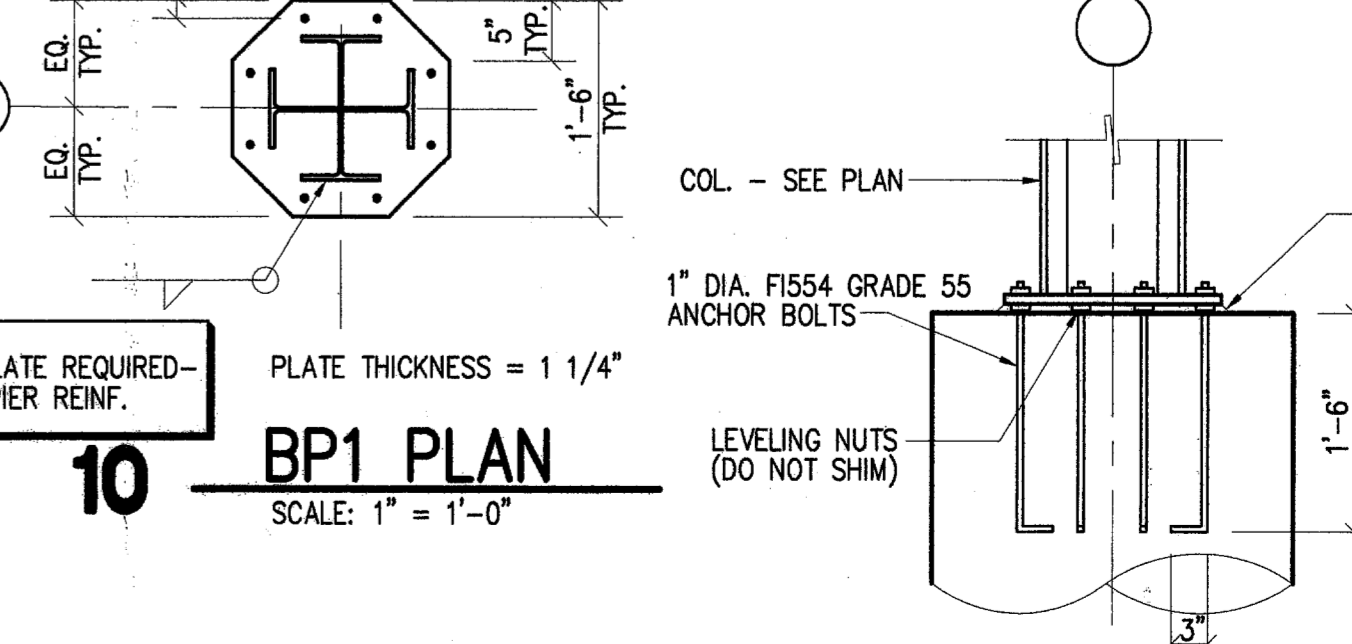
06 TYPICAL DECK ATTACHMENT TO CMU  
SCALE: 1" = 1'-0"



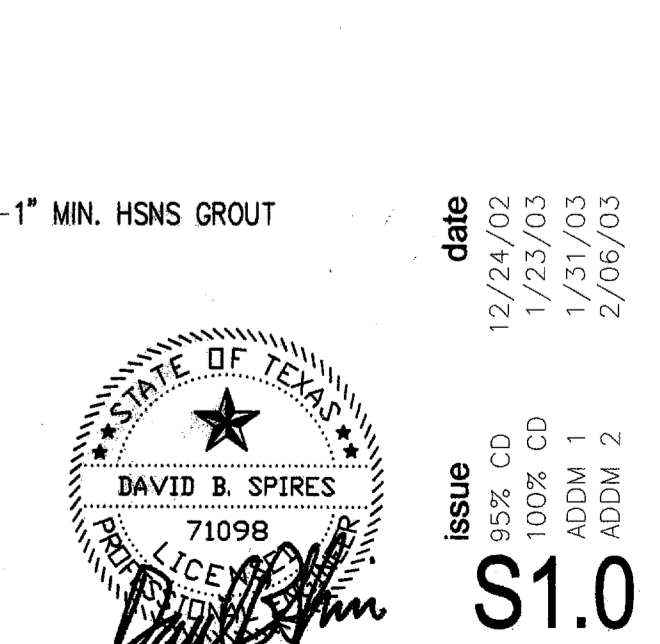
08 BP2 PLAN  
SCALE: 1" = 1'-0"



09 BP2 SECTION  
SCALE: 1" = 1'-0"



10 BP1 PLAN  
SCALE: 1" = 1'-0"



11 BP1 SECTION  
SCALE: 1" = 1'-0"

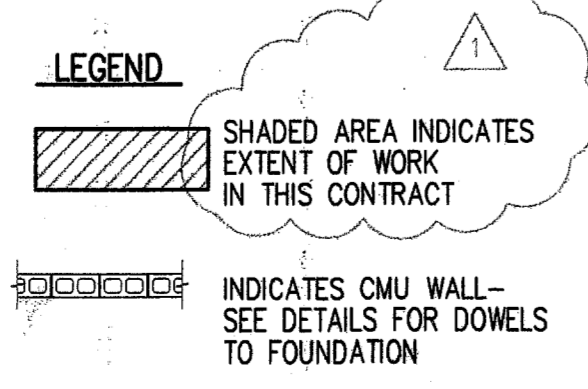
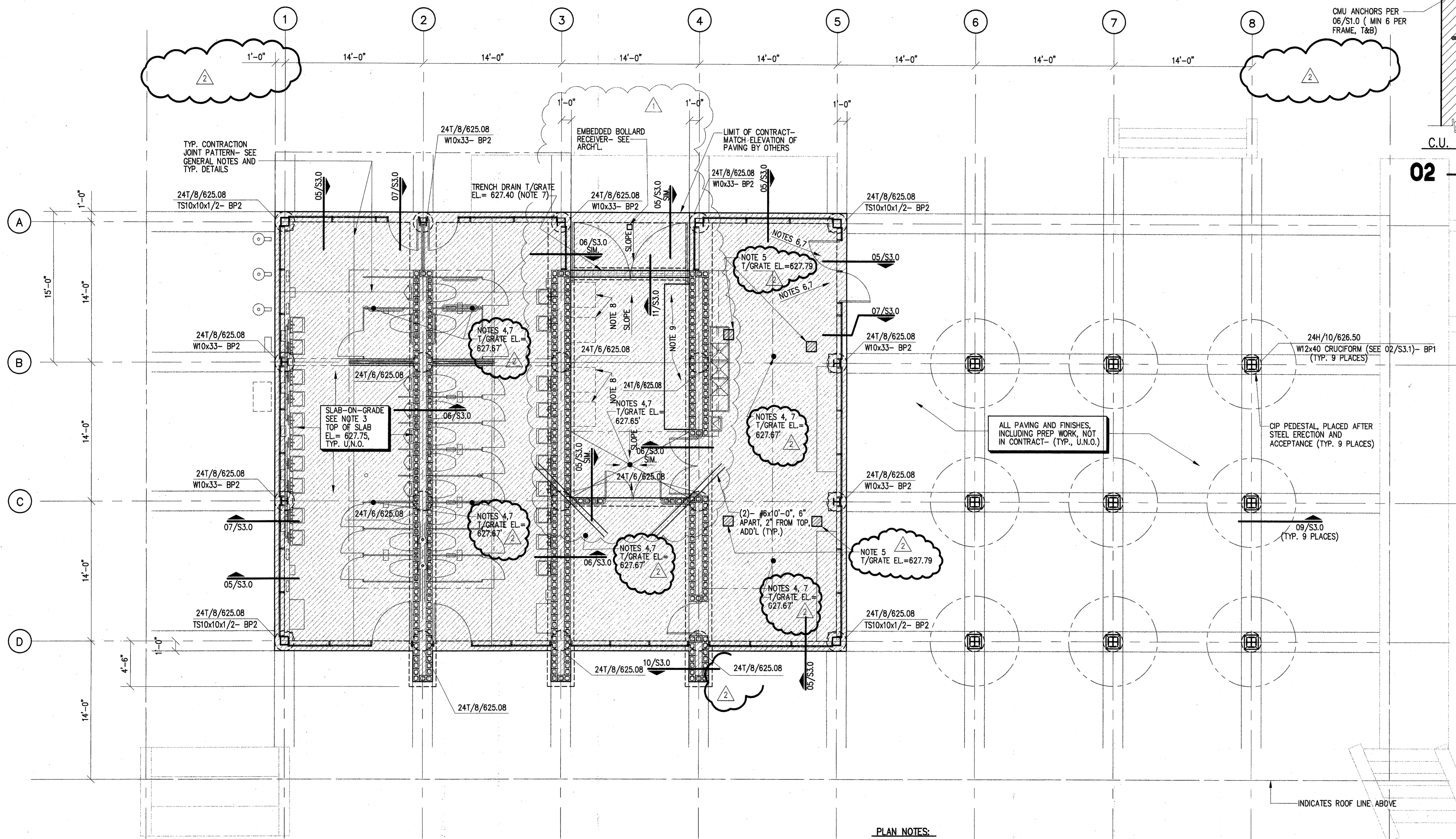
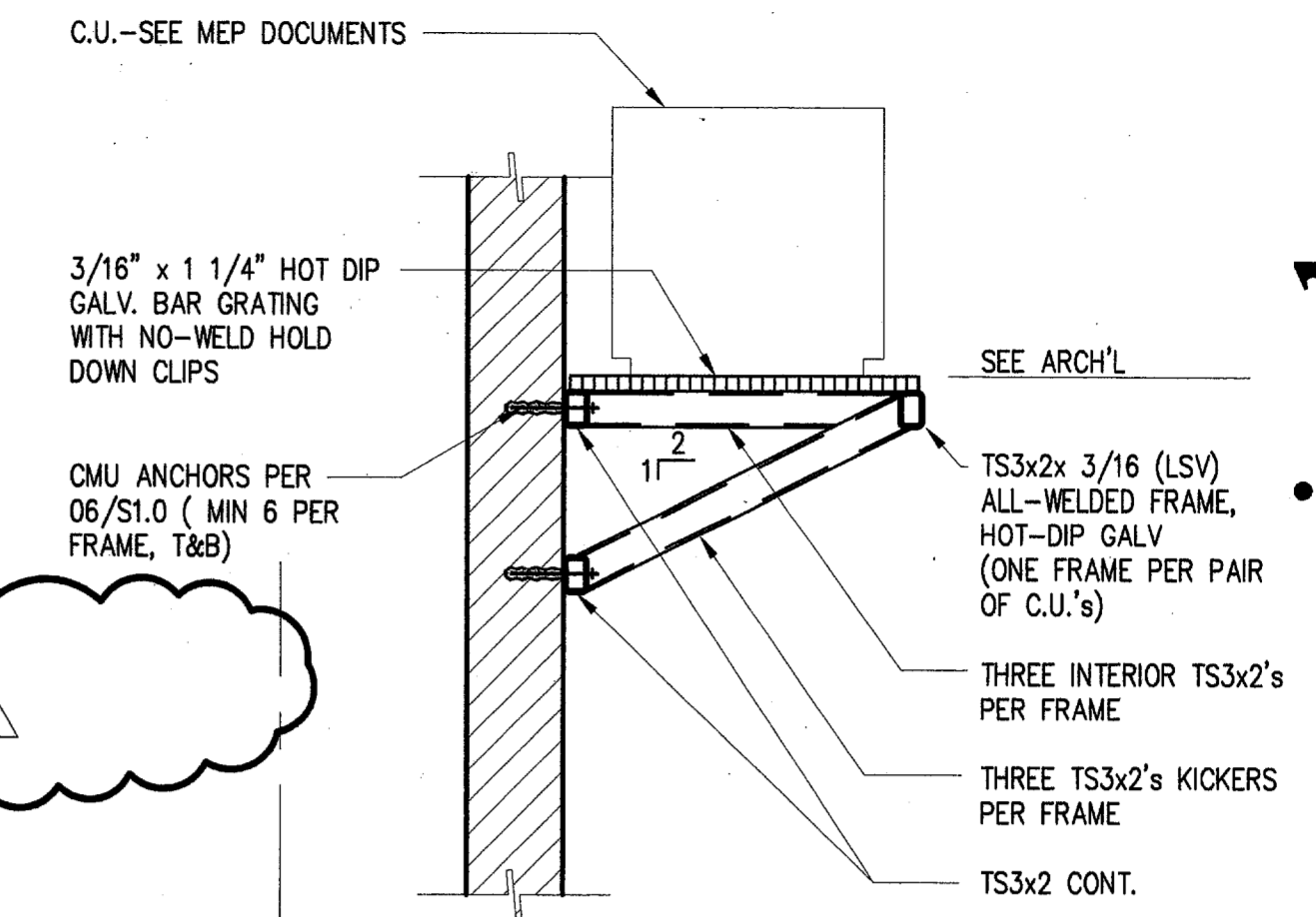
**Cunningham architects**  
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 f 214.915.0901

**Thornton-Tomasetti Engineers**  
 A Division of the Thornton Group  
 17750 MERT DRIVE  
 SUITE 802, LB-7  
 WILSON, TEXAS 75071  
 (972) 367-8300  
 TX PROJECT # 002458.00  
 dt@thorntontomasetti.com

**Addison Arts and Events Pavilion**  
 Addison, Texas  
 4970 Addison Circle Drive

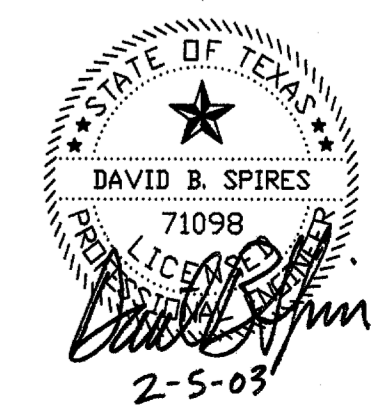
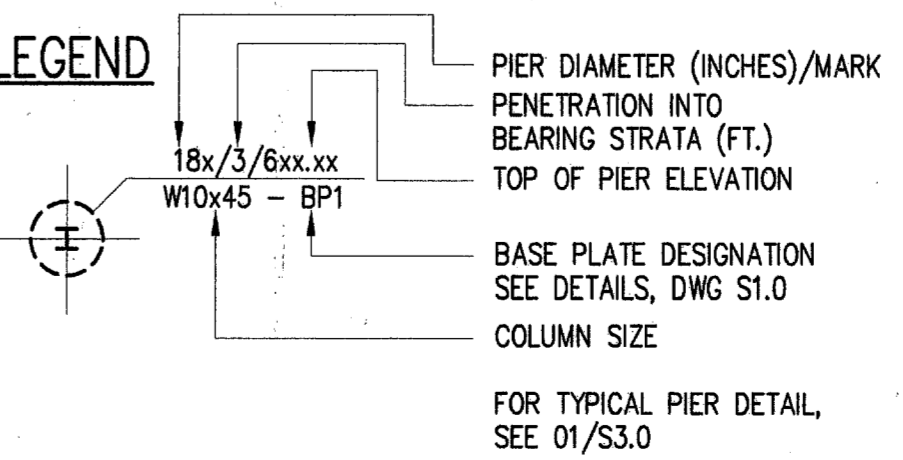
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 1/23/03  
 1/31/03  
 2/06/03  
 issue 95% CD  
 100% CD  
 ADDM 1  
 ADDM 2  
 \$1.0  
 GENERAL NOTES, CMU DETAILS ETC.  
 STATE OF TEXAS  
 DAVID E. SPIRES  
 71098  
 LICENSED PROFESSIONAL ARCHITECT  
 2-5-03





**01 FOUNDATION PLAN**  
 SCALE: 3/16" = 1'-0"  
 NORTH

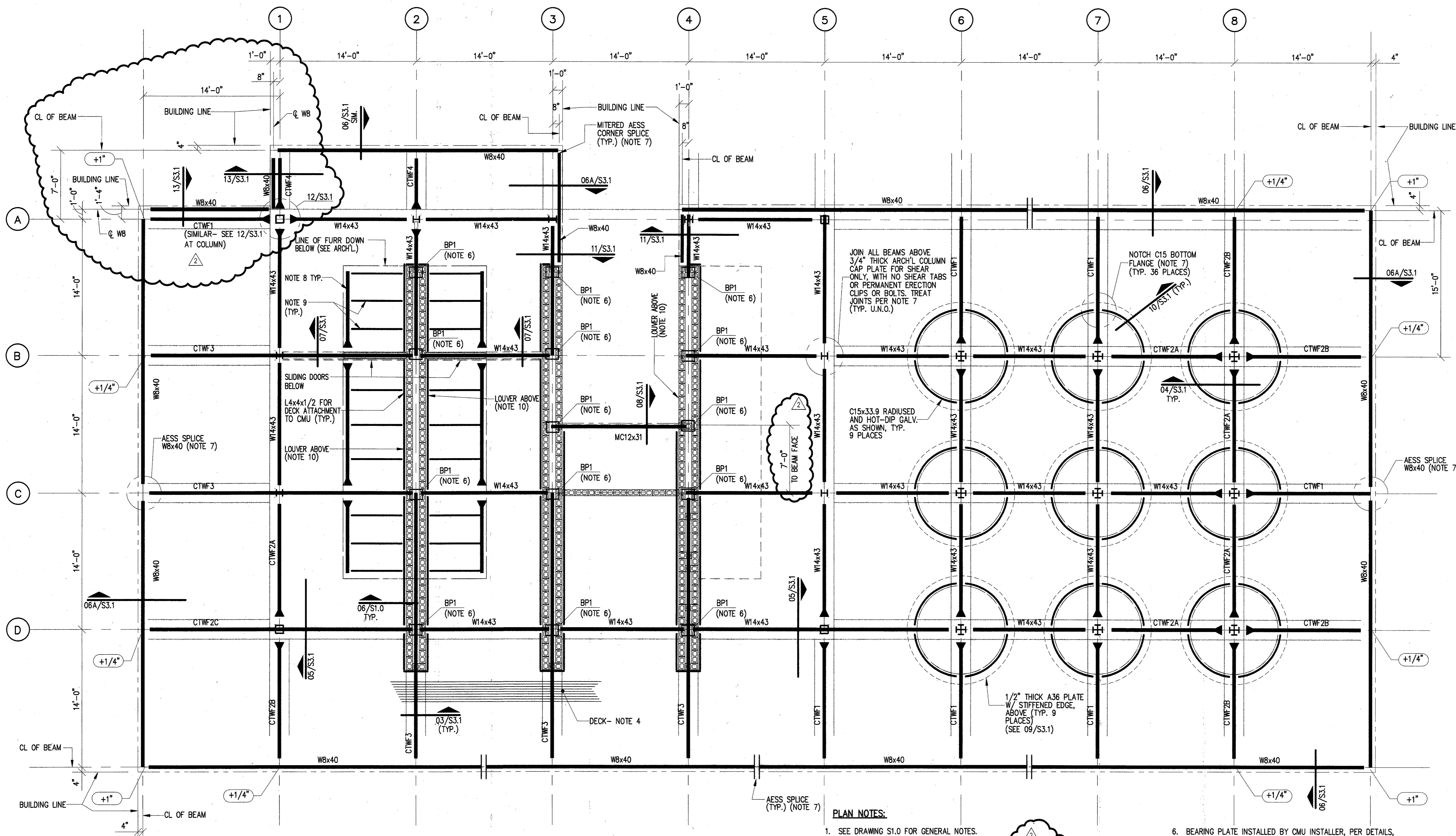
- PLAN NOTES:**
- SEE S1.0 FOR GENERAL NOTES.
  - SEE S3.0 FOR TYPICAL DETAILS.
  - SLAB-ON-GRADE TO BE 5" THICK CONCRETE REINF. W/ #3 @ 14" o.c. EA. WAY, 2" FROM TOP. SEE ALSO GENERAL NOTES FOR MIX RESTRICTIONS. PROVIDE SUBGRADE PREPARATION AS SPECIFIED BY GEOTECHNICAL CONSULTANT TO REDUCE PVR TO ONE INCH OR LESS.
  - FLOOR DRAIN- SEE MEP DOCUMENTS FOR DETAILS, AND 05/AB.2 FOR LOCATIONS.
  - FLOOR SINK- SEE MEP DOCUMENTS FOR DETAILS AND 05/AB.2 FOR LOCATIONS. TOP OF SLAB EL. ADJACENT TO HOUSING 1/2" LOWER PER CITY OF ADDISON STANDARDS.
  - SLOPE SLAB TO MATCH ELEVATION OF PATIO THRESHOLD (SEE ARCH'L).
  - SLOPE SUBGRADE TO MAINTAIN 5" SLAB THICKNESS- DO NOT REDUCE THICKNESS TO CREATE SLOPE.
  - CONDENSOR UNIT MOUNTING RACKS ABOVE, SEE DETAIL 02/THIS DWG.
  - CIP PAD FOR SWITCH GEAR- SEE MEP DOCUMENTS. REINF. SAME AS SLAB-ON-GRADE (ADD'L).



**Issue S2.0 FOUNDATION PLAN**

date	issue
12/24/02	95% CD
1/23/03	100% CD
1/31/03	ADDN 1
2/06/03	ADDN 2





**LEGEND**

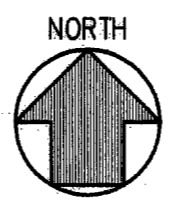
CTWFX CUSTOM TAPERED WIDE FLANGE TYPE DESIGNATION. SEE DETAILS ON SHEET S3.1

+X" INDICATES RESIDUAL CAMBER REQUIRED. SEE NOTE 5

BPX BEARING PLATE TYPE DESIGNATION. SEE DETAILS ON SHEET S1.0

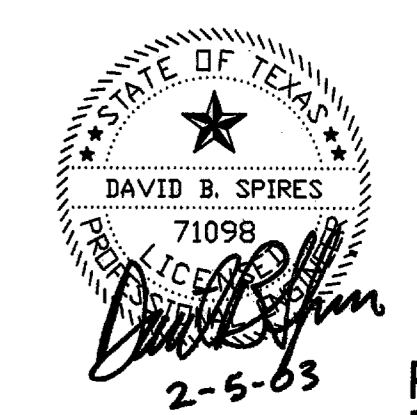
INDICATES MOMENT CONNECTION

**01 ROOF FRAMING PLAN**  
SCALE: 3/16" = 1'-0"



**PLAN NOTES:**

- SEE DRAWING S1.0 FOR GENERAL NOTES.
- SEE DRAWING S3.1 FOR TYPICAL DETAILS.
- TOP OF STEEL / BOTTOM OF DECK ELEVATION = 639.89 (12'-1 5/8" AFF) UNO
- DECKING SHALL BE 4" NOMINAL (2 7/8" MIN ACTUAL) GLULAM TONGUE & GROOVE, WIDTH AS SPECIFIED BY ARCHITECT, SOUTHERN PINE, F<sub>b</sub> = 2500 PSI MIN, E = 1,800,000 PSI MIN. SUPPLY AND PLACE IN RANDOM LENGTH CONTINUOUS FASHION, WITH NO SINGLE SPANS. EACH PIECE SHALL BEAR ON AT LEAST ONE SUPPORT MEMBER. END JOINTS SHALL BE STAGGERED AT LEAST 24 INCHES. SEE DETAILS FOR ATTACHMENT TO SUPPORT MEMBERS. PROVIDE CONCEALED SLANT NAIL THROUGH ALL ADJACENT PIECES, AT 30 INCHES ON CENTER MAX (STAGGERED 15 INCHES AT EVERY OTHER COURSE), AND WITHIN 12 INCHES EACH SIDE OF EACH END JOINT, WITH MIN 10D HOT-DIP GALVANIZED RING SHANK NAILS. INSTALL AT MAX 19% MOISTURE CONTENT.
- BUILT-IN CAMBER AND OTHER ADJUSTMENTS TO NOMINAL DIMENSIONS FOR DEFLECTION CONTROL SHALL BE THE RESIDUAL ADJUSTMENT, AS MEASURED IN THE FIELD AFTER ERECTION. RESIDUAL ADJUSTMENTS MUST EQUAL OR EXCEED THE SPECIFIED AMOUNTS. NO DOWNWARD TOLERANCE IS ACCEPTABLE. USE OF EITHER FABRICATION ADJUSTMENTS OR POST-FABRICATION CAMBER IS CONTRACTOR'S OPTION.
- BEARING PLATE INSTALLED BY CMU INSTALLER, PER DETAILS, DRAWING S1.0. OWNERS TESTING LAB TO CONFIRM CORRECT INSTALLATION FOR EACH PLATE AND REPORT TO OWNER.
- FILL ALL DISCONTINUITIES WITH PERMANENT WELD METAL, SUFFICIENT TO CREATE APPEARANCE OF CONTINUOUS, UNSPLICED MEMBER, AND GRIND SMOOTH.
- W8x18 AT TYP. TOS/BOB EL. FOR MEP AND TOILET PARTITION SUPPORT. ATTACH CFMS AND HANGERS TO THIS FRAMING ONLY, FOR GRAVITY LOADS- ATTACH BRACING LOADS TO DECK. SUBMIT CFMS DESIGN FOR REVIEW.
- L4x4x1/4 ANGLES AS REQUIRED FOR MEP AND TOILET PARTITION SUPPORT. SEE ALSO NOTE 8, FOR BIDDING, ASSUME 18 SUCH ANGLES. AT CMU END, PROVIDE 12" LONG ANGLE CLIP AND TWO CMU ANCHORS PER 06/S1.0
- PROVIDE LINTEL PER 04/S1.0 ABOVE LOUVER OPENING, 32" LONGER THAN WIDTH. PROVIDE SIMILAR BOND BEAM AT SILL, AND GROUTED VERTICAL CELLS EACH SIDE PER GENERAL NOTES.



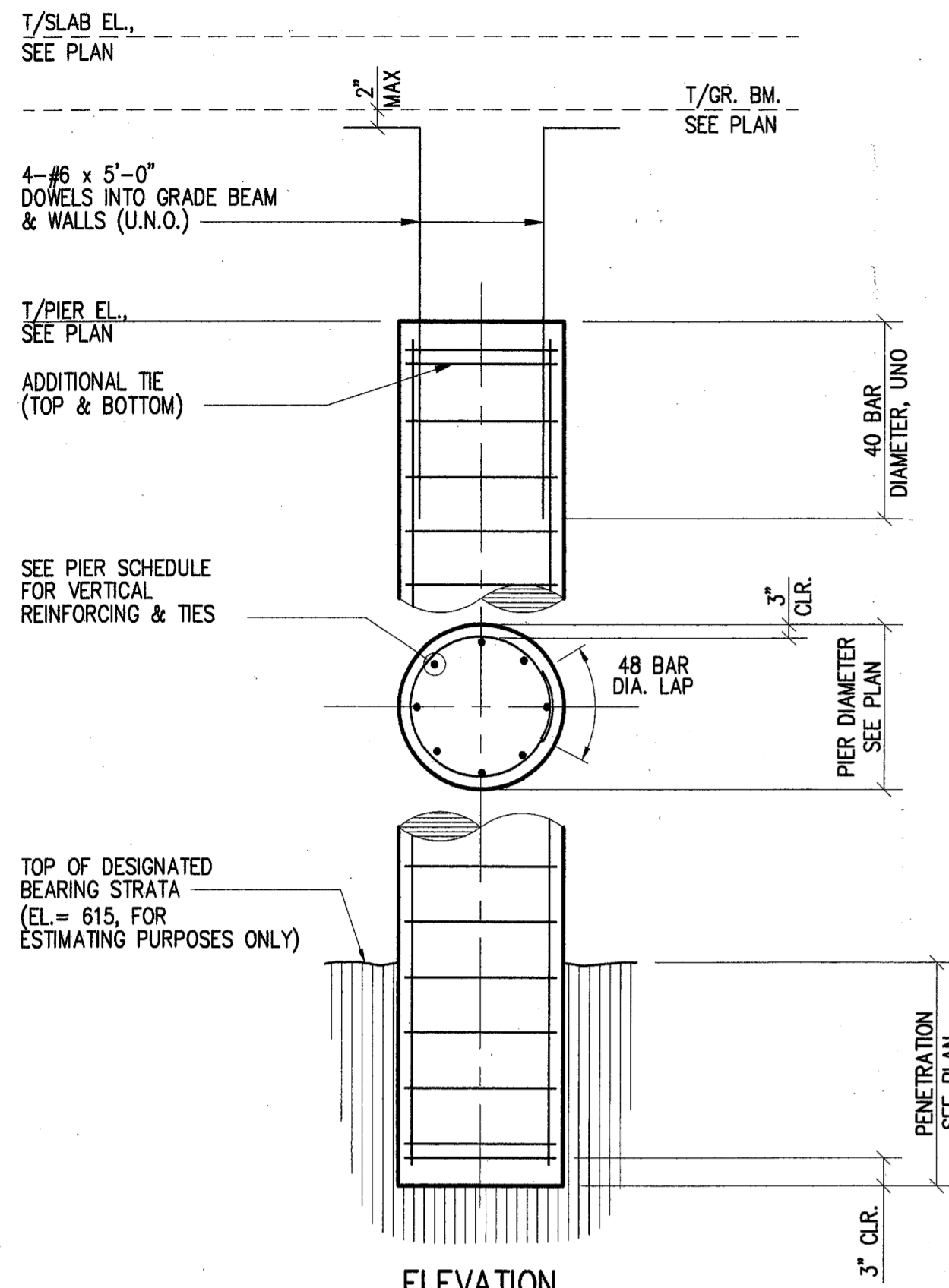
date 12/24/02  
1/23/03  
1/31/03  
2/06/03

issue 95% CD  
100% CD  
ADDM 1  
ADDM 2

**S2.1**

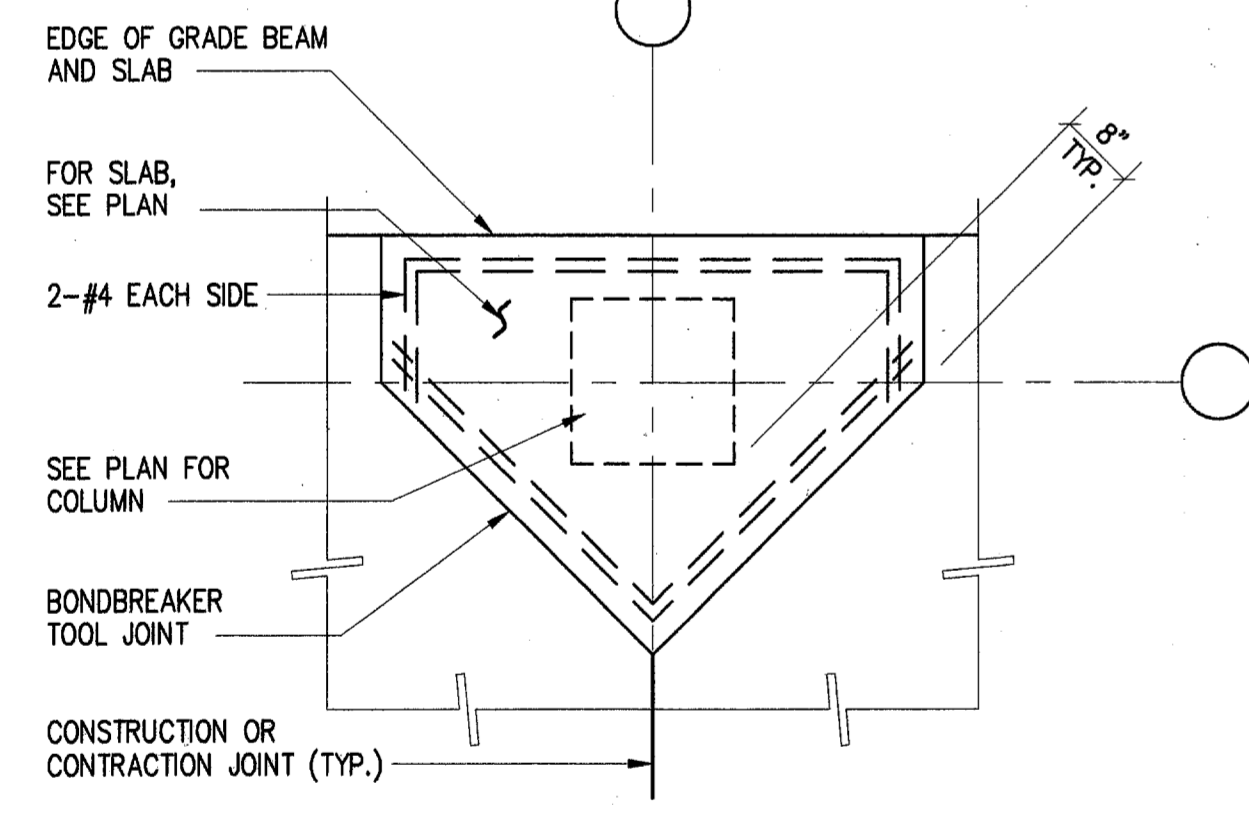
ROOF FRAMING PLAN



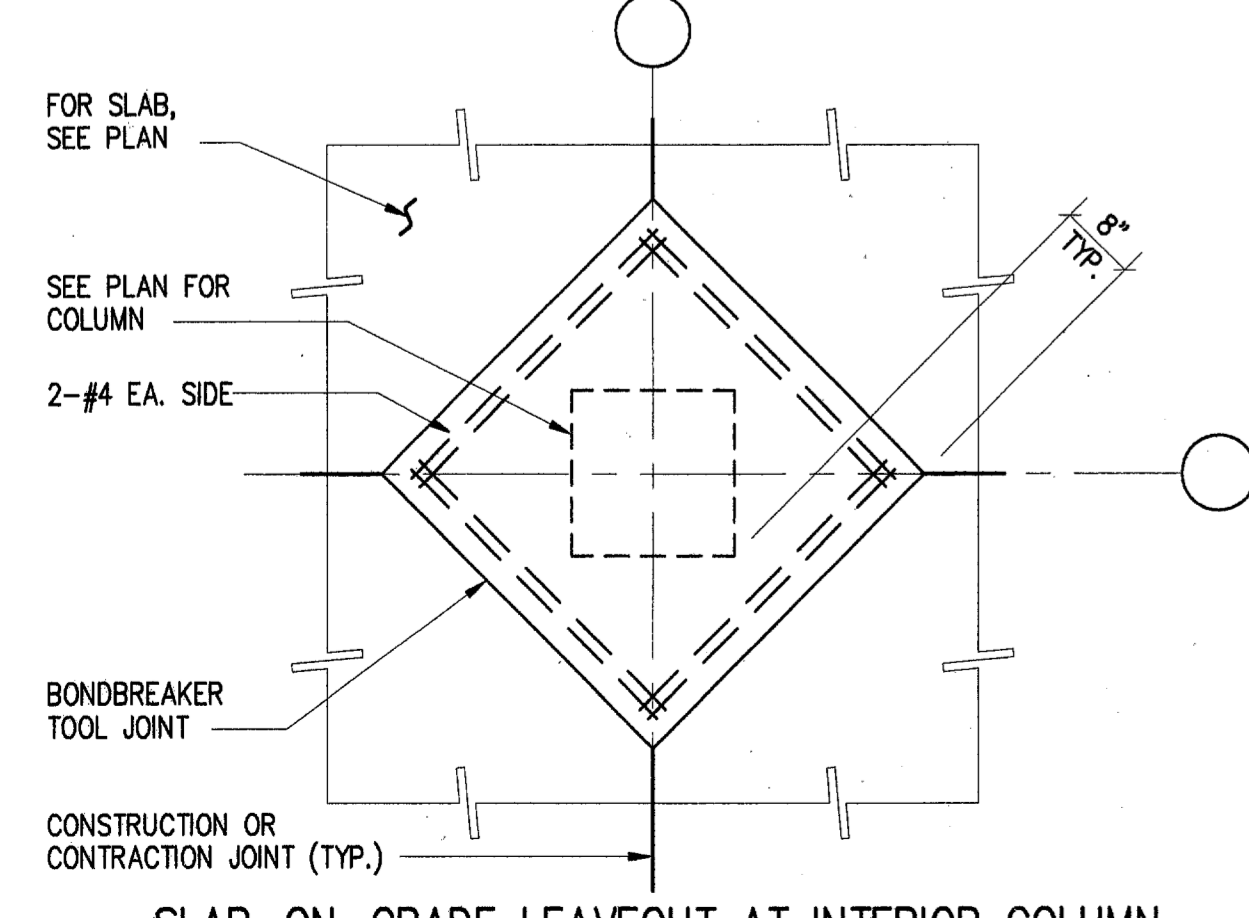


PIER SCHEDULE			
DIAMETER (IN) MARK	REINFORCING		REMARKS
	VERTICALS	TIES	
24H	6-#7	#3 AT 14"	
24T	6-#6	#3 AT 12"	

**01 TYPICAL DETAIL**  
STRAIGHT SHAFT PIER

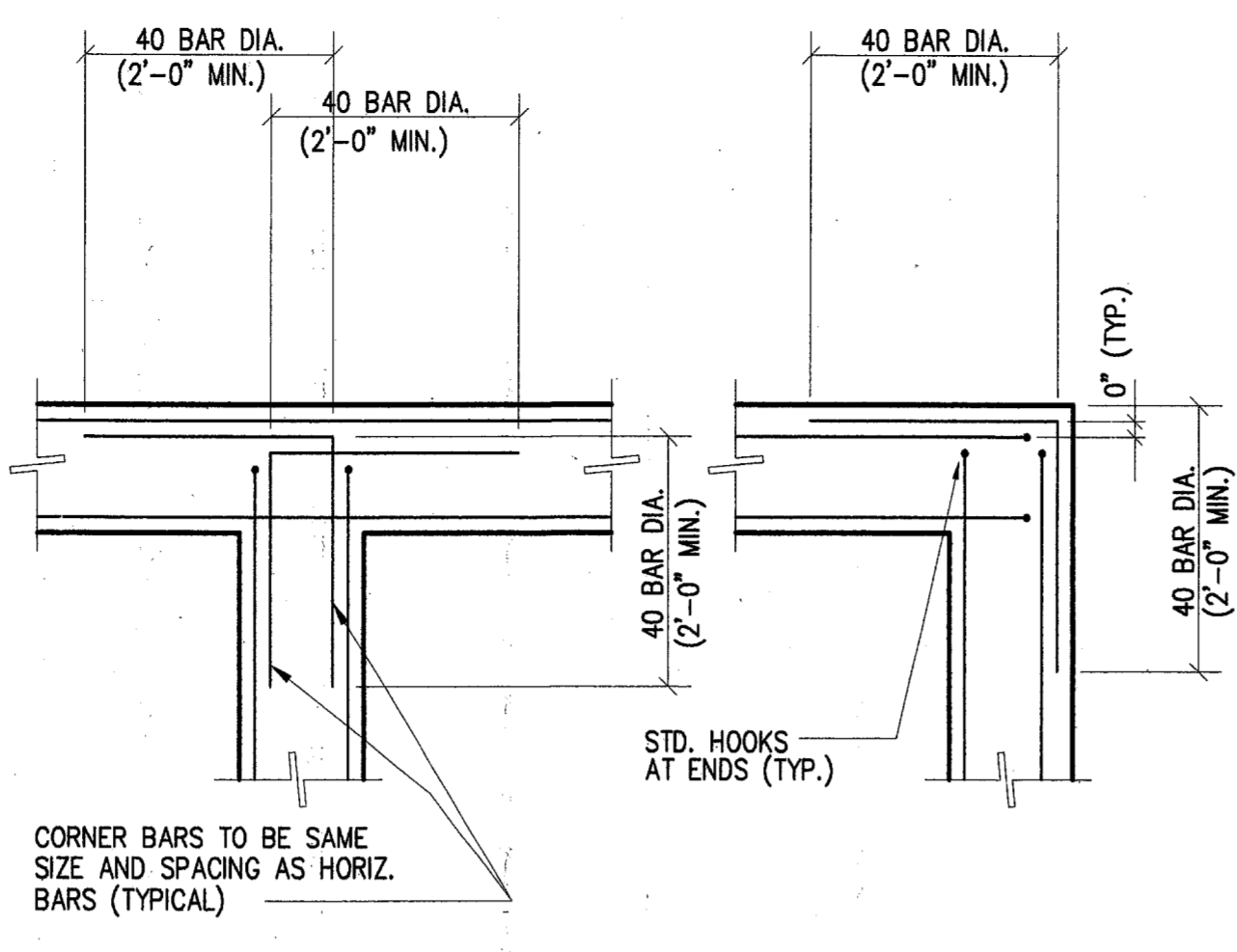


SLAB-ON-GRADE LEAVEOUT AT EXTERIOR COLUMN



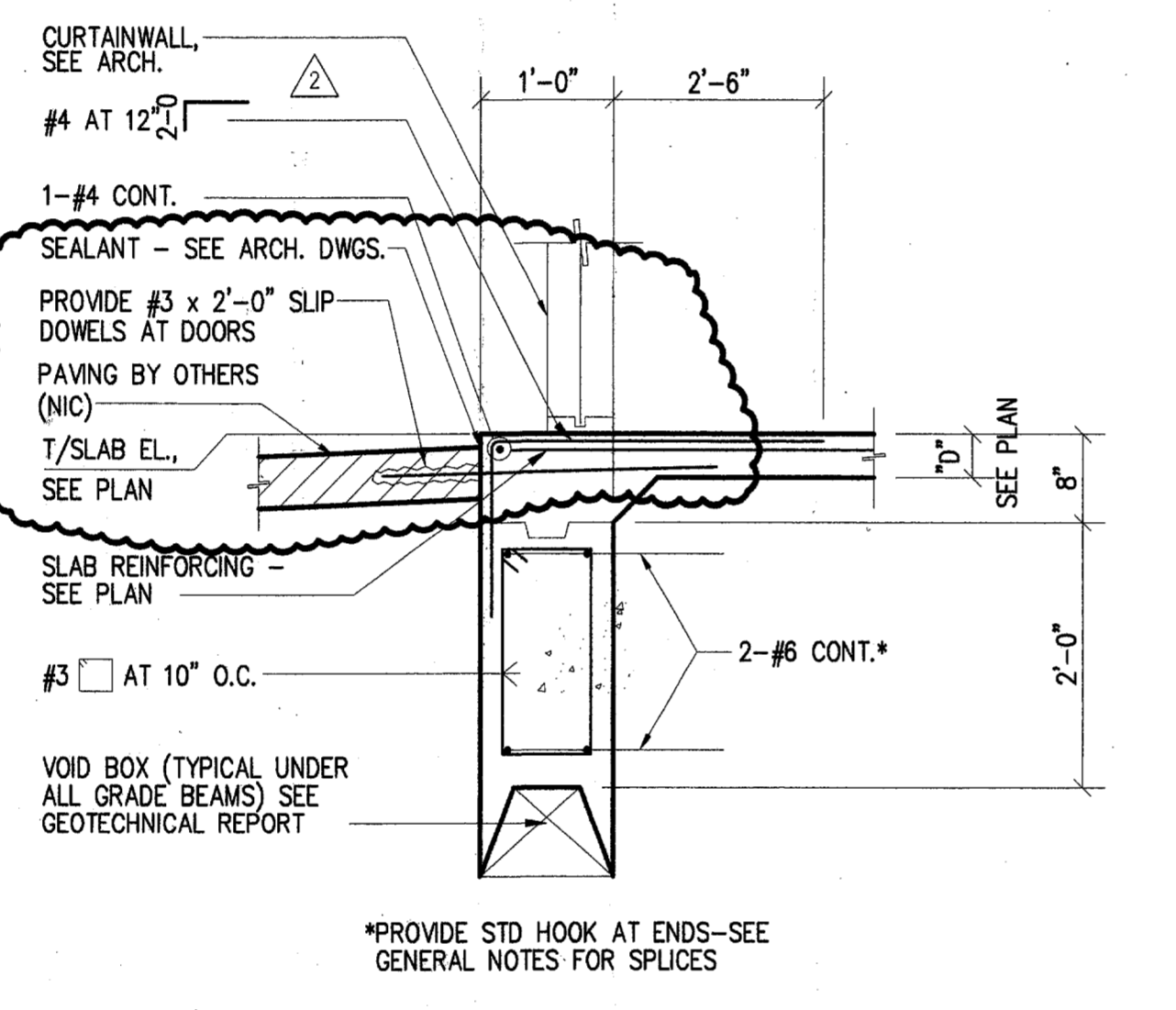
SLAB-ON-GRADE LEAVEOUT AT INTERIOR COLUMN

**08 TYPICAL DETAIL**

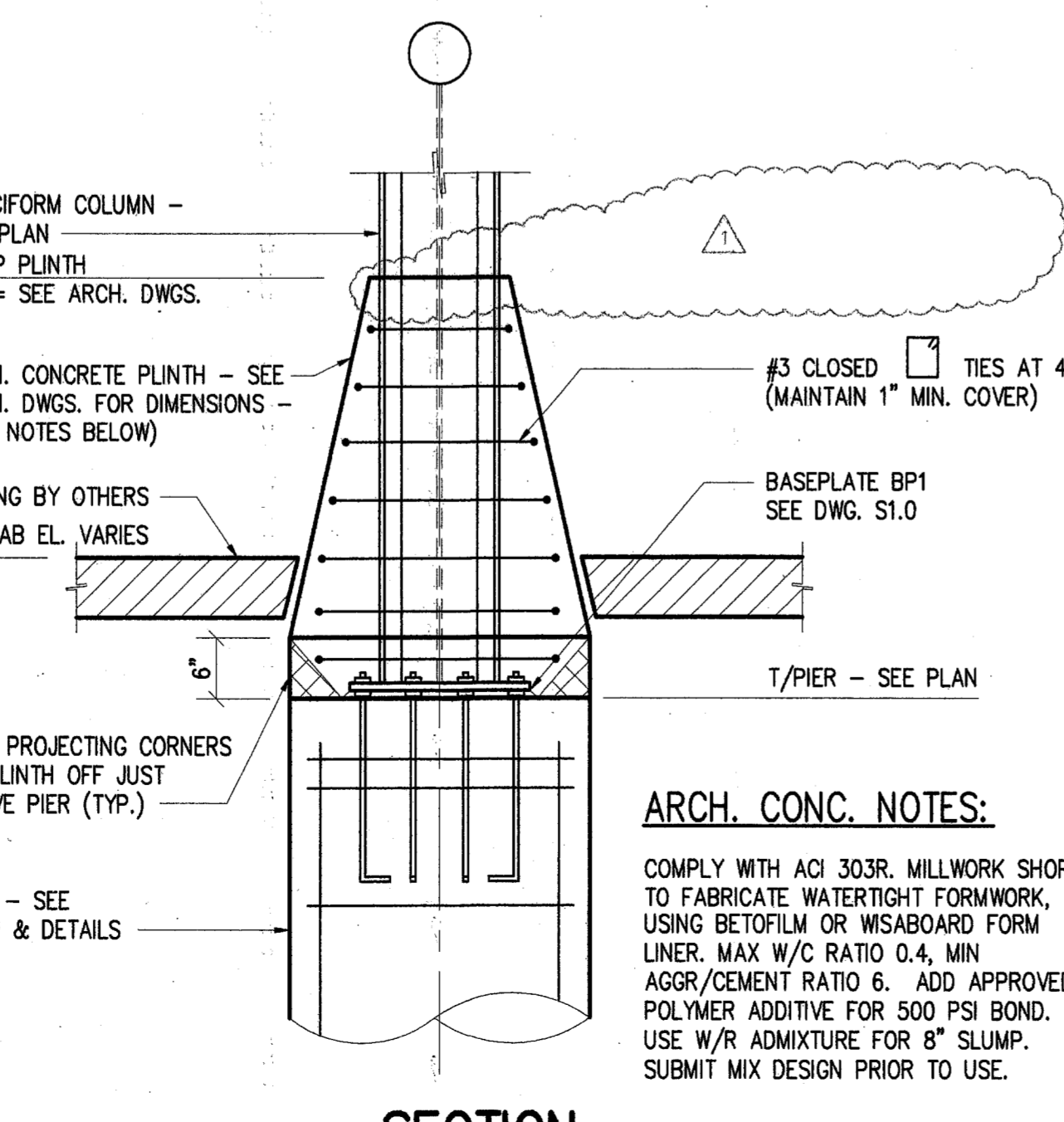


ADDITIONAL CORNER BARS AT GRADE BEAMS AND WALLS

**02 TYPICAL DETAIL**

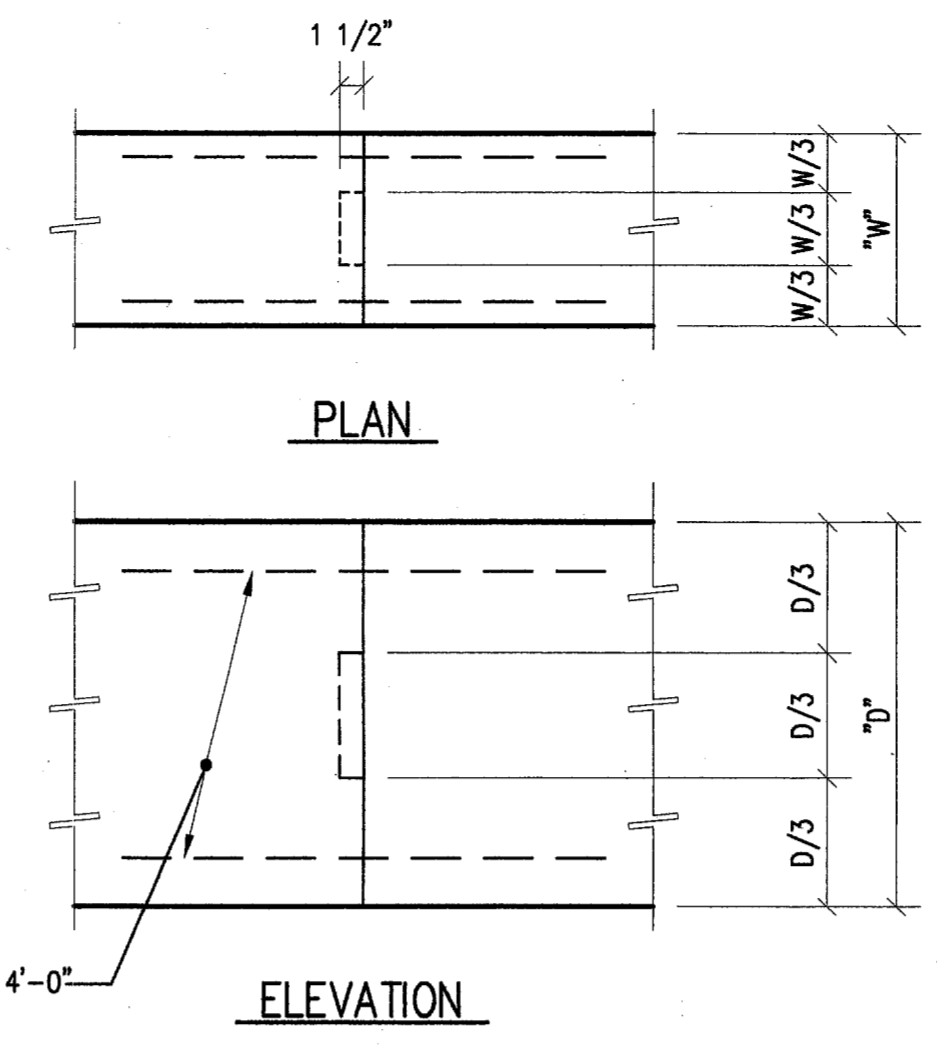


**05 TYPICAL DETAIL**



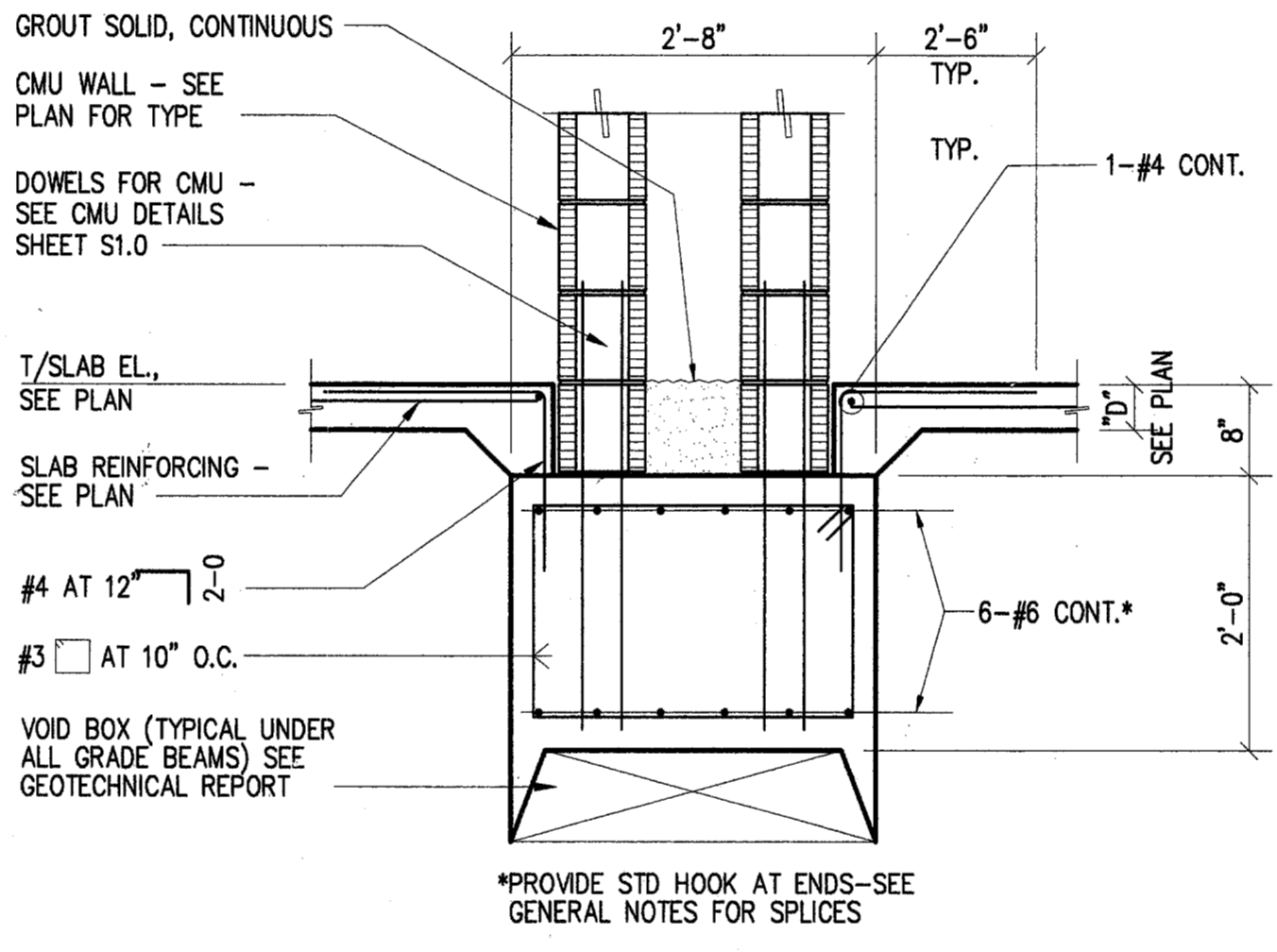
**09 SECTION**  
SCALE: NONE

**ARCH. CONC. NOTES:**  
COMPLY WITH ACI 303R. MILLWORK SHOP TO FABRICATE. WATERTIGHT FORMWORK, USING BETOFILM OR WISABOARD FORM LINER. MAX W/C RATIO 0.4, MIN AGGR/CEMENT RATIO 6. ADD APPROVED POLYMER ADDITIVE FOR 500 PSI BOND. USE W/R ADMIXTURE FOR 8" SLUMP. SUBMIT MIX DESIGN PRIOR TO USE.



GRADE BEAM CONSTRUCTION JOINT

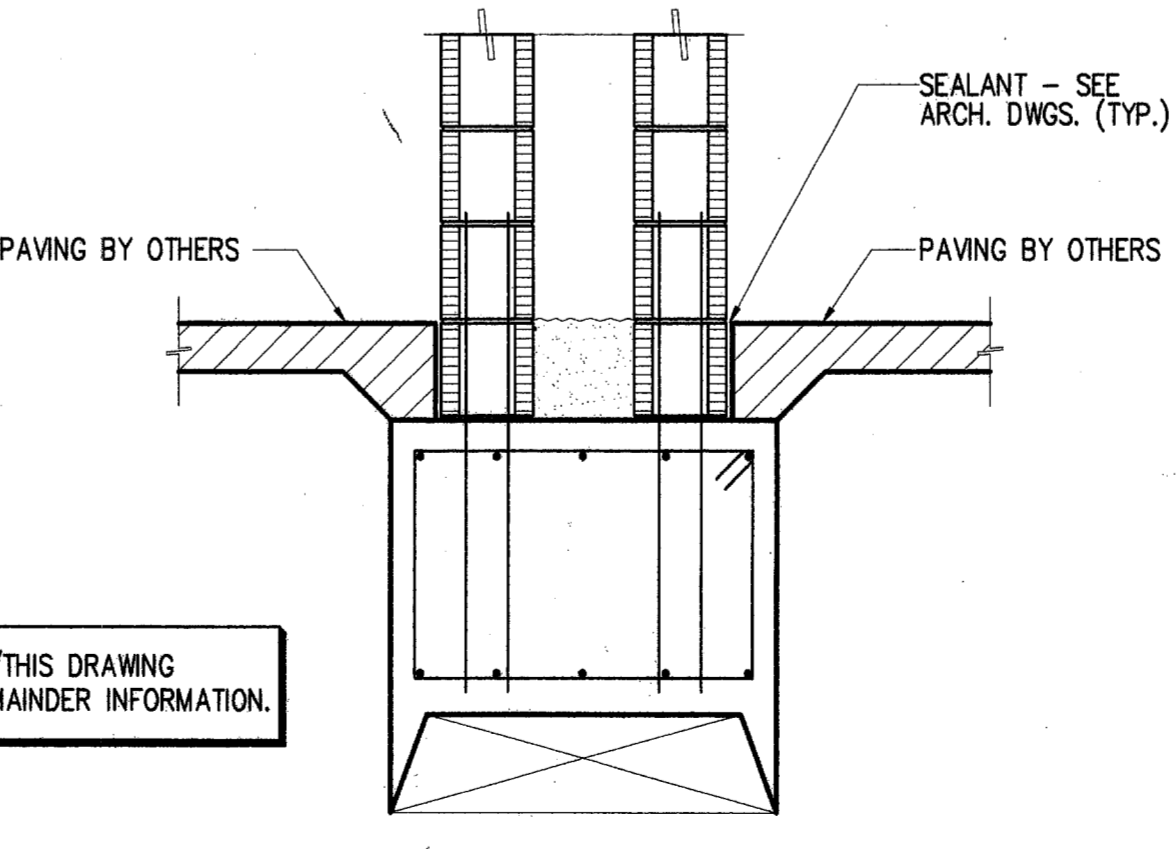
**03 TYPICAL DETAIL**



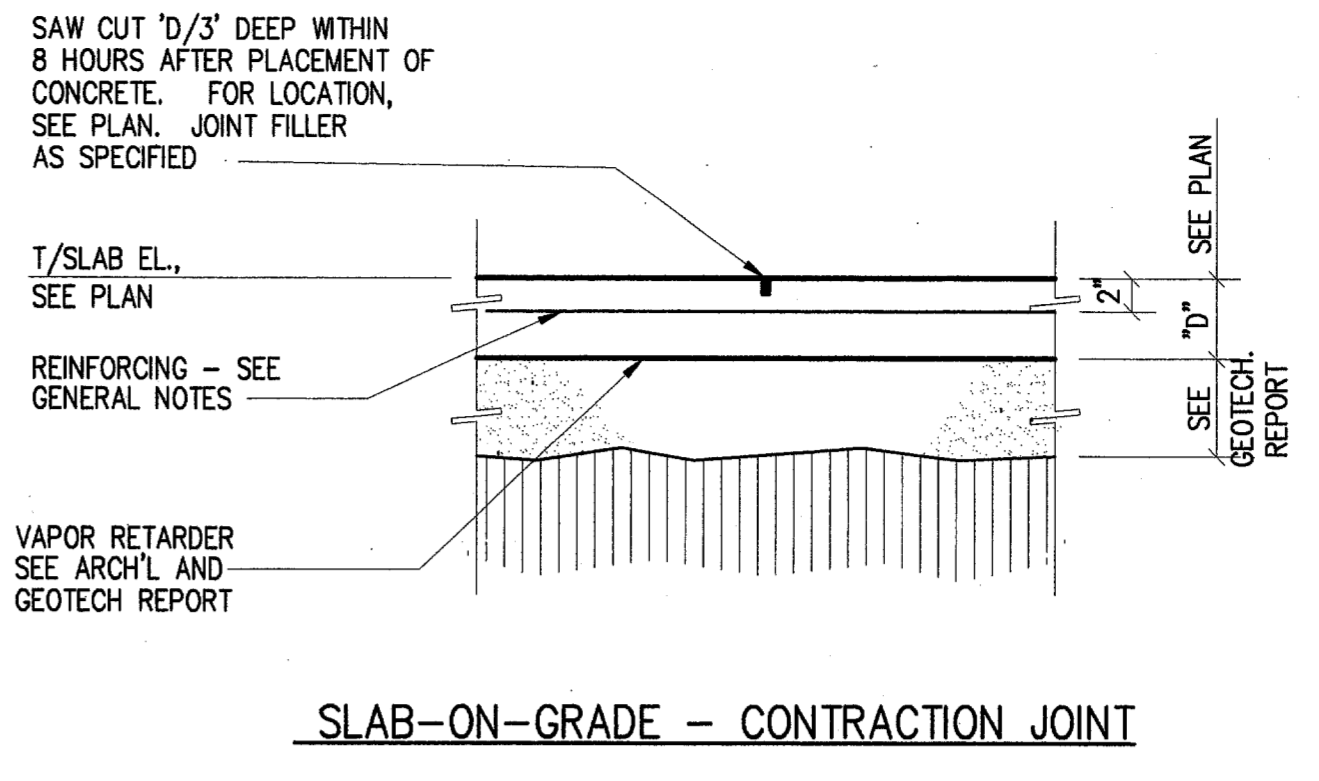
INTERIOR GRADE BEAM WITH CMU WALL

**06 TYPICAL DETAIL**

SEE 06/THIS DRAWING FOR REMAINDER INFORMATION.

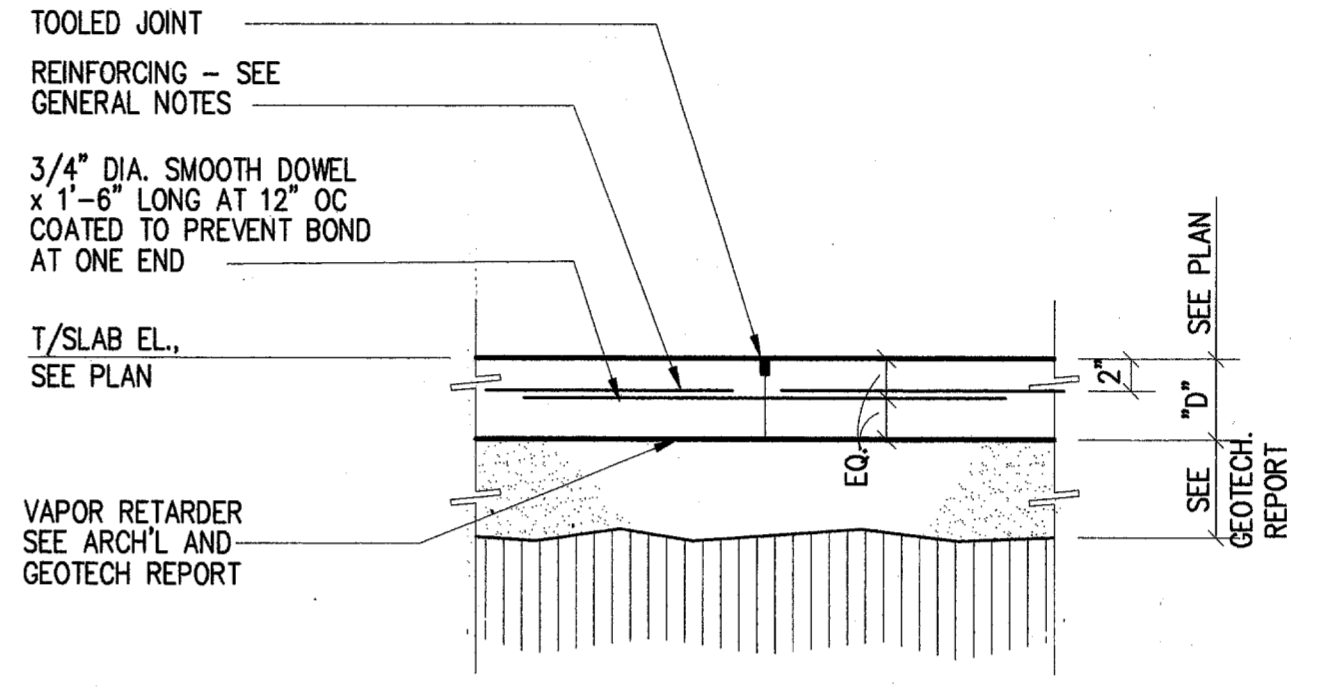


**10 TYPICAL DETAIL**



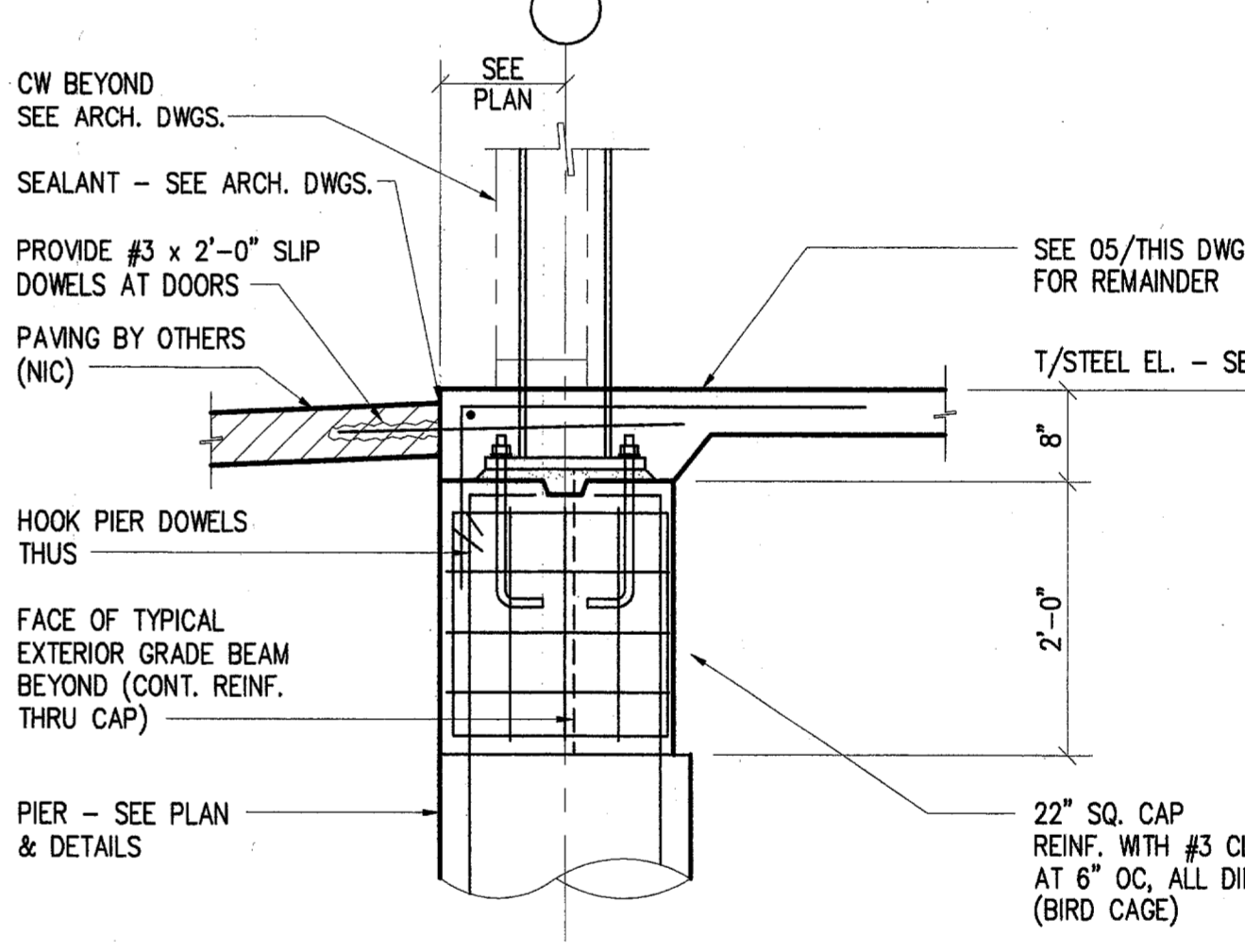
SLAB-ON-GRADE - CONTRACTION JOINT

**04 TYPICAL DETAIL**



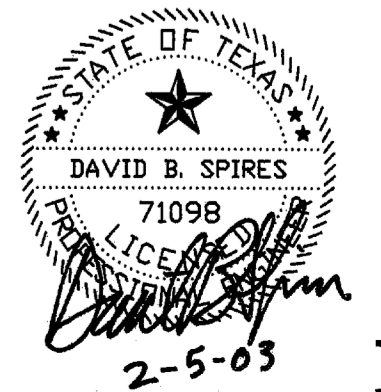
SLAB-ON-GRADE - CONSTRUCTION JOINT

**07 TYPICAL DETAIL**

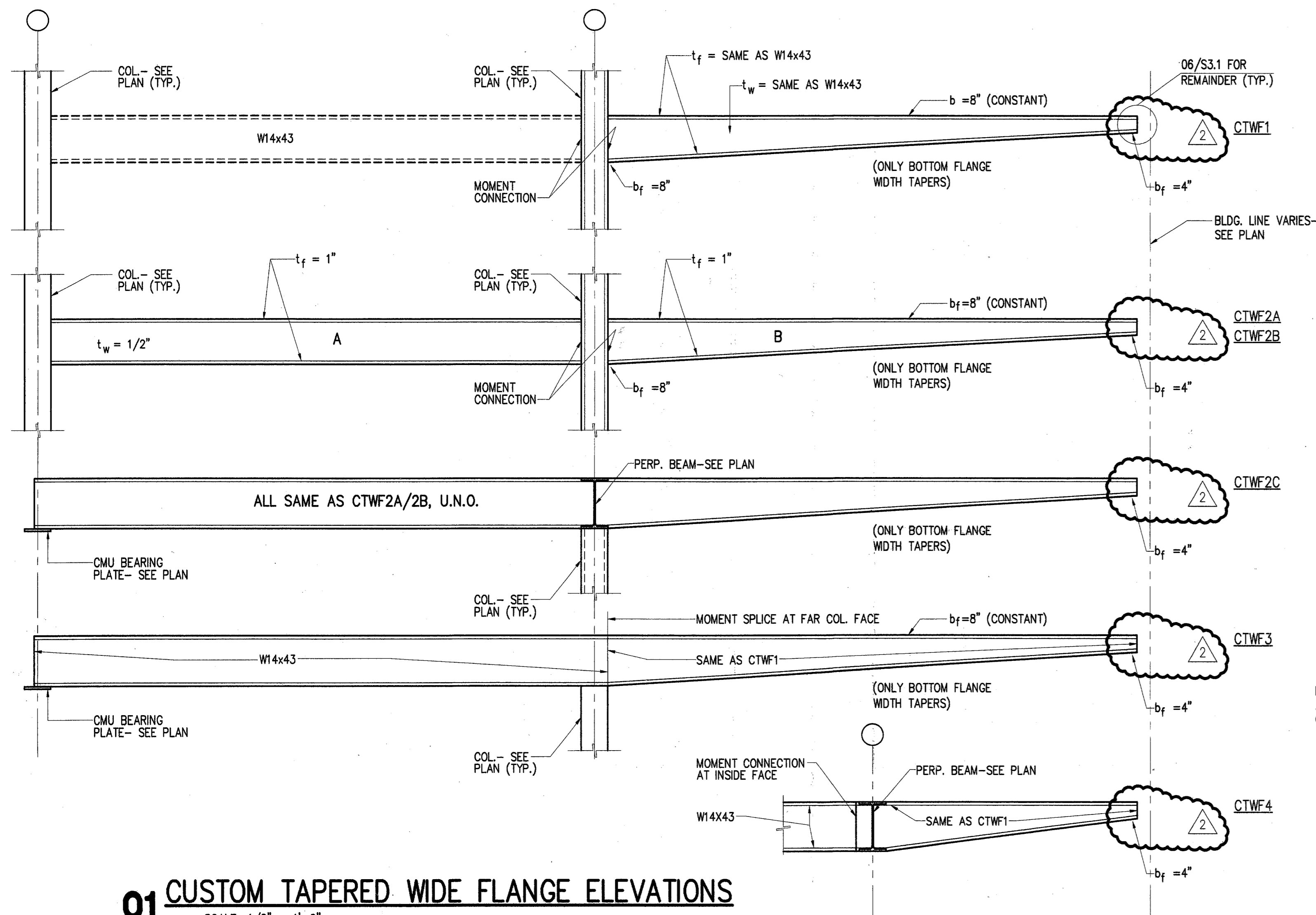


**07 TYPICAL DETAIL**

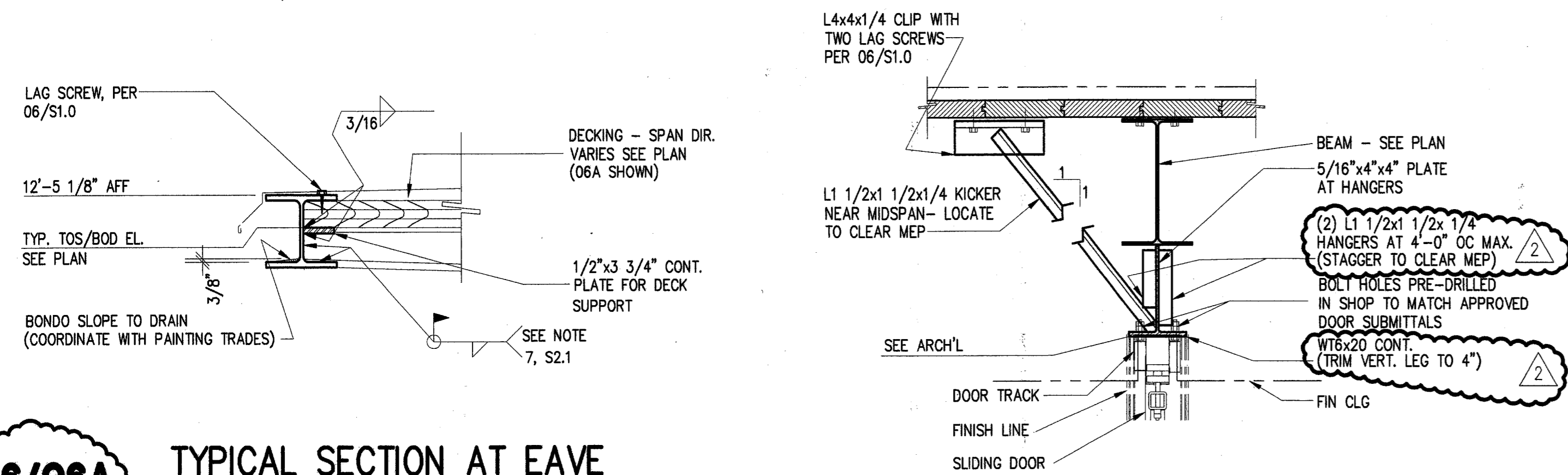
**11 TRENCH DRAIN**





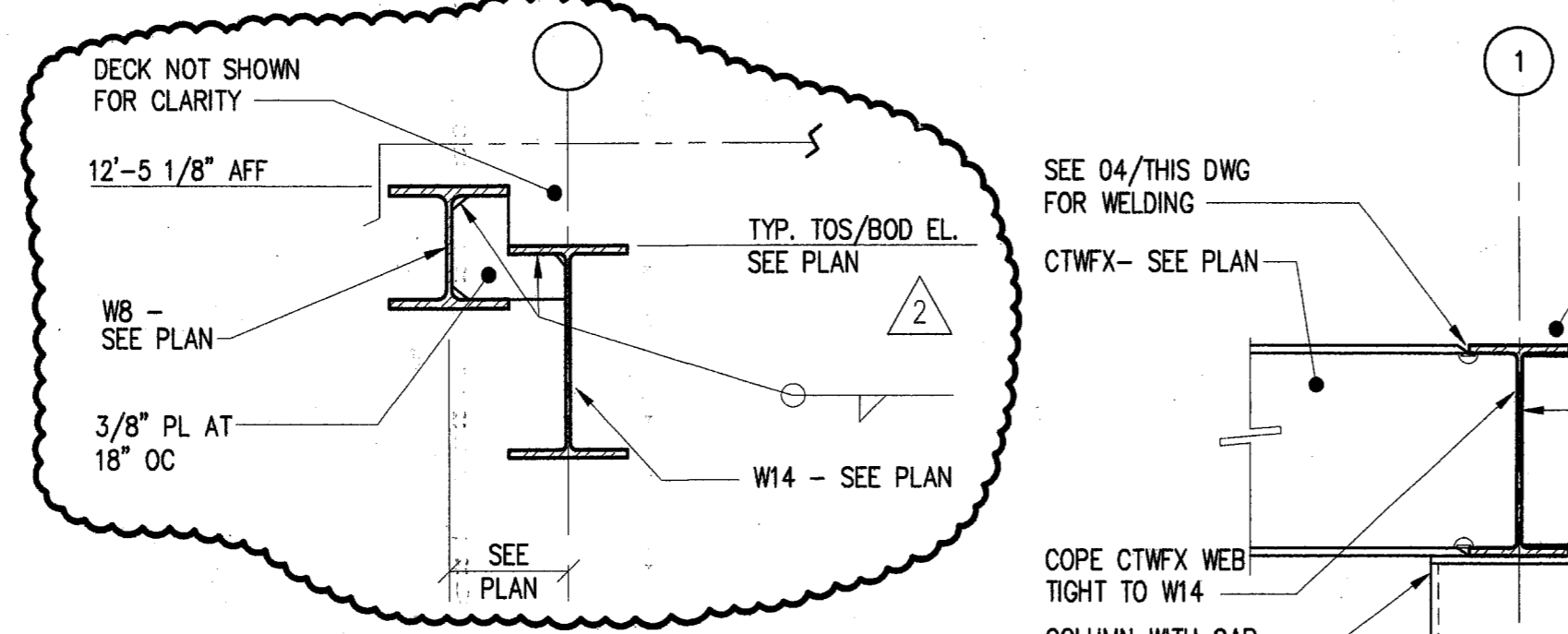


**01 CUSTOM TAPERED WIDE FLANGE ELEVATIONS**  
SCALE: 1/2" = 1'-0"

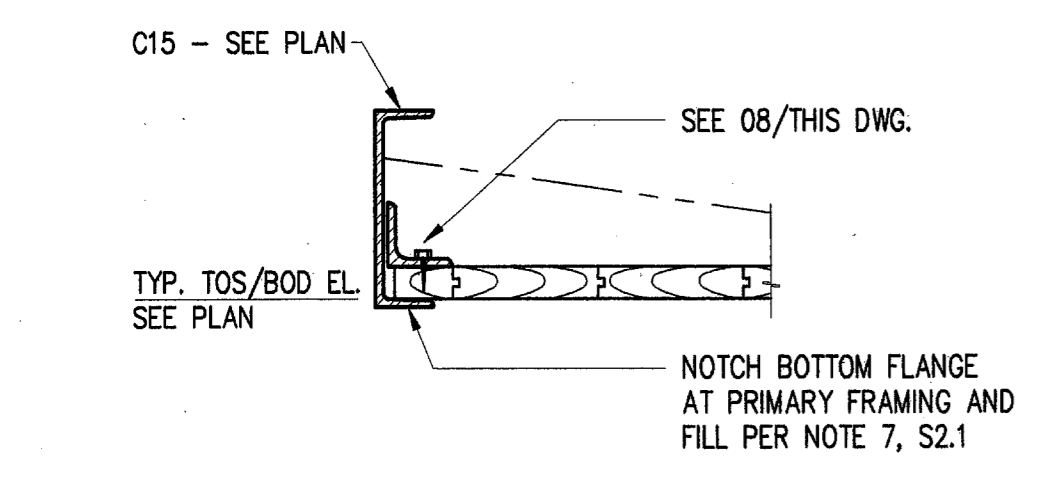


**06/06A TYPICAL SECTION AT EAVE**  
SCALE: 1" = 1'-0"

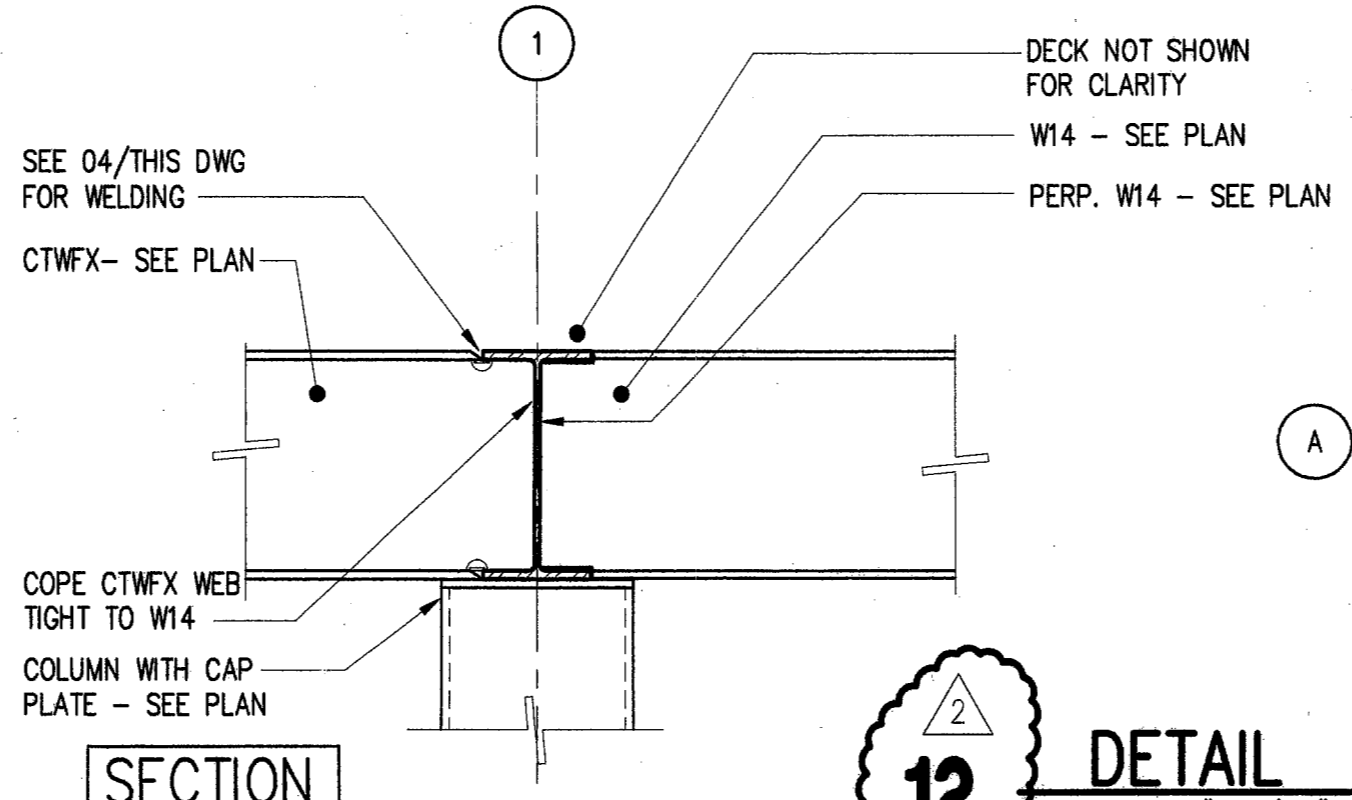
**07 TYPICAL SECTION AT SLIDING DOOR**  
SCALE: 1" = 1'-0"



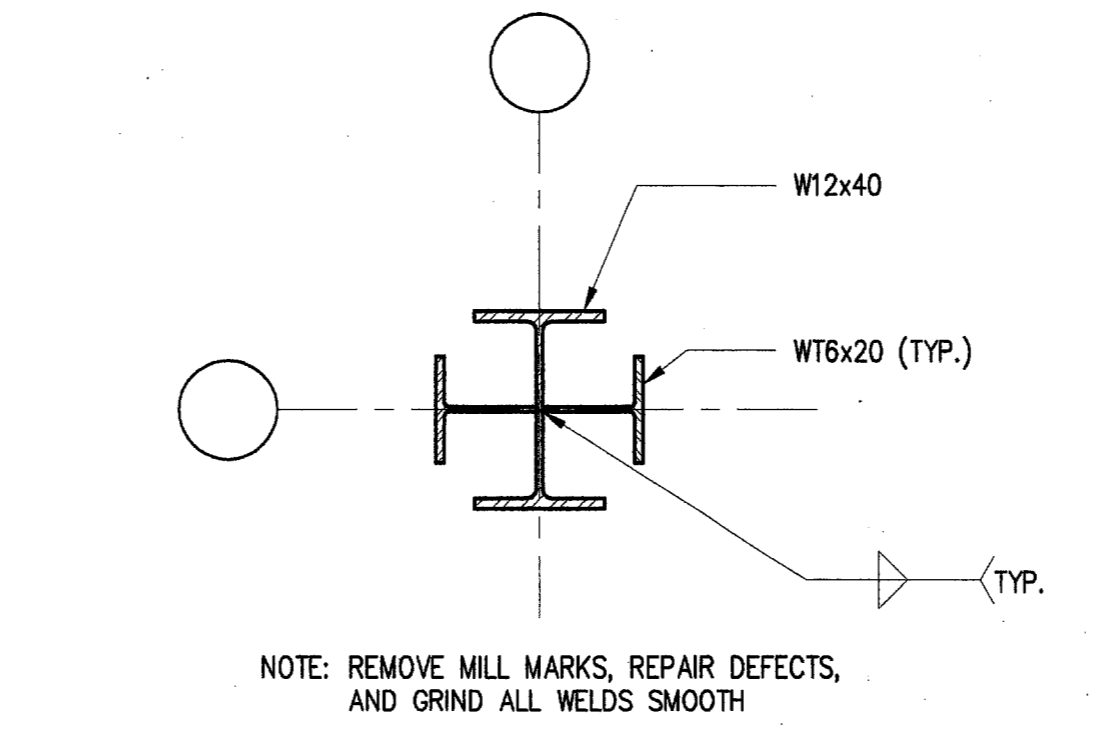
**11 SECTION**  
SCALE: 1" = 1'-0"



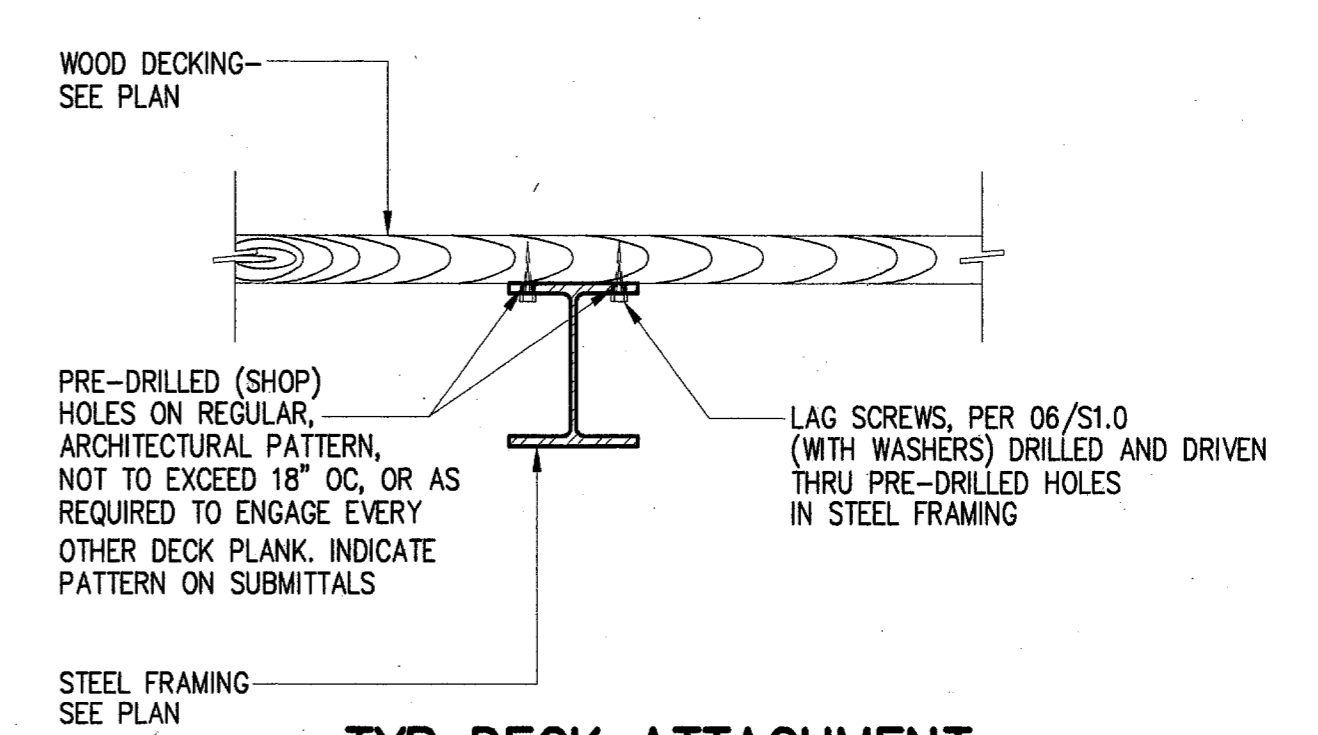
**10 SECTION**  
SCALE: 1" = 1'-0"



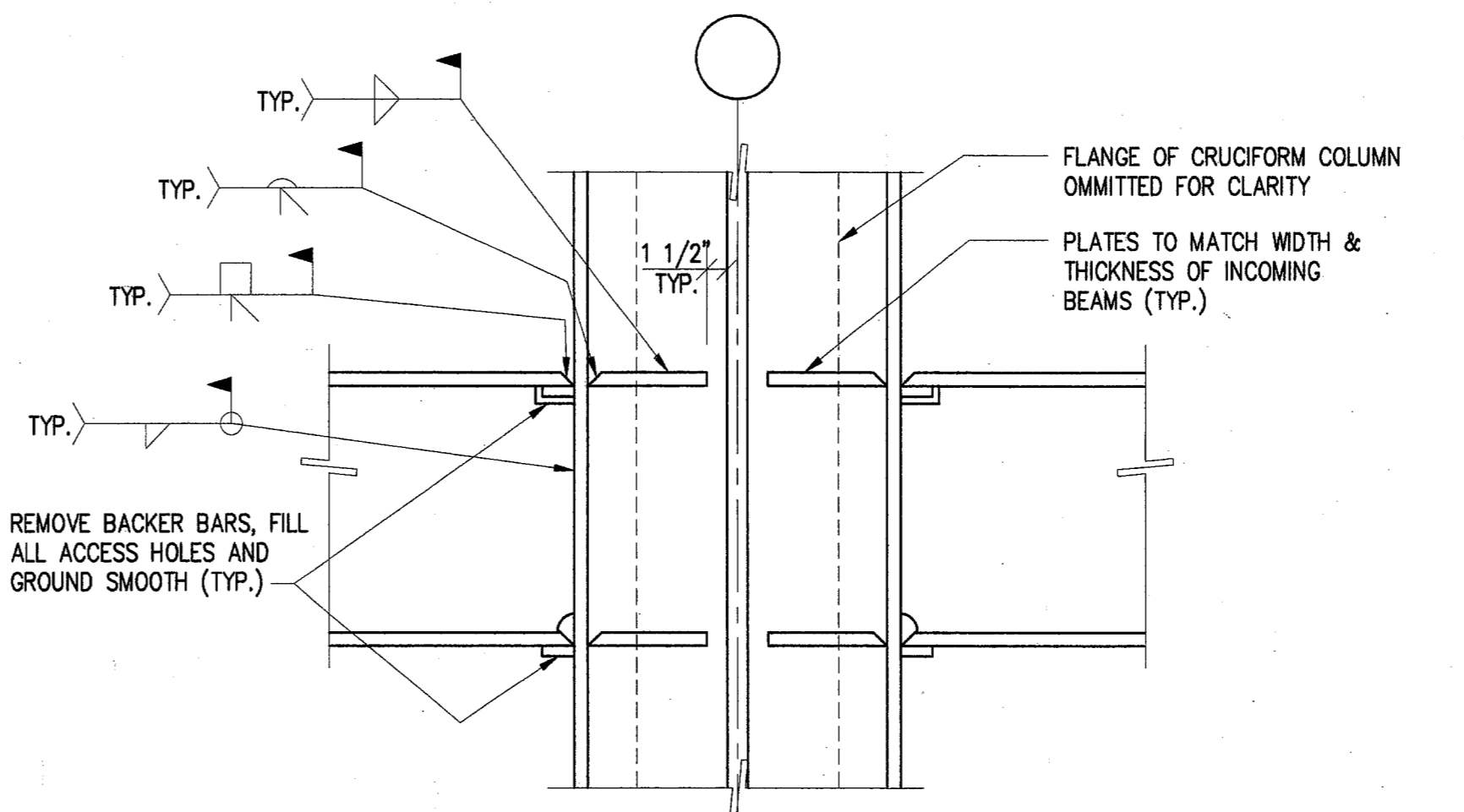
**12 DETAIL**  
SCALE: 1" = 1'-0"



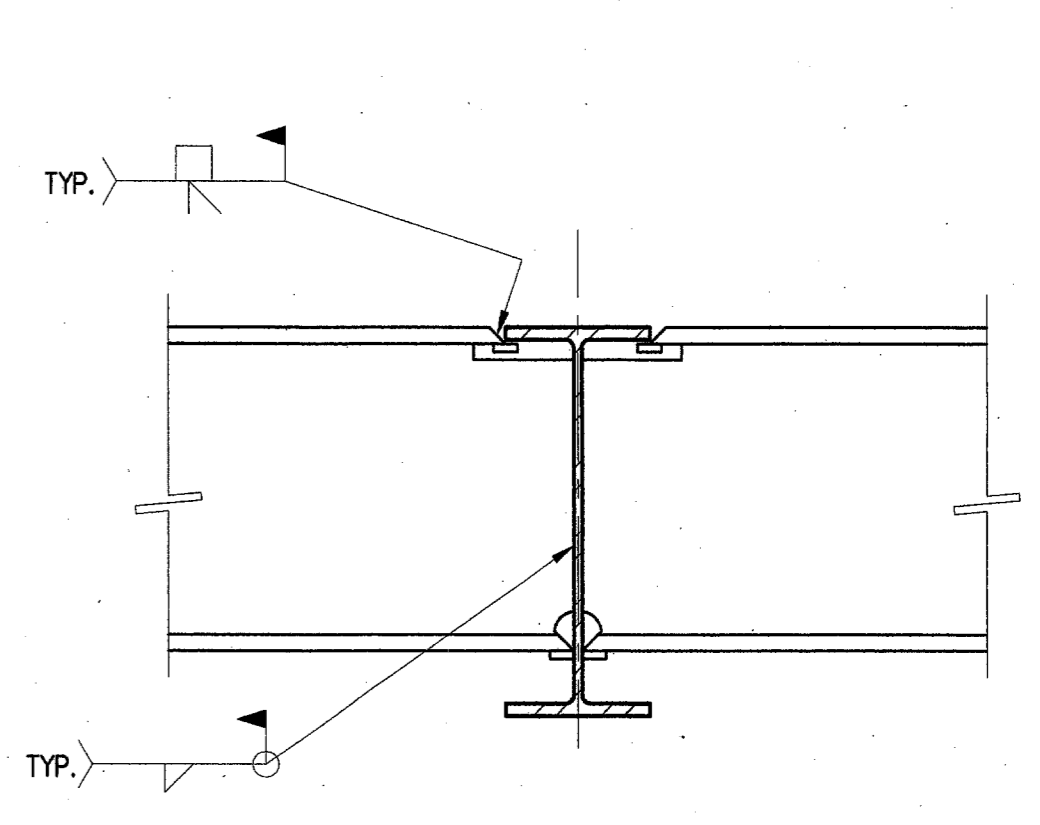
**02 TYPICAL CRUCIFORM COLUMN**  
SCALE: 1" = 1'-0"



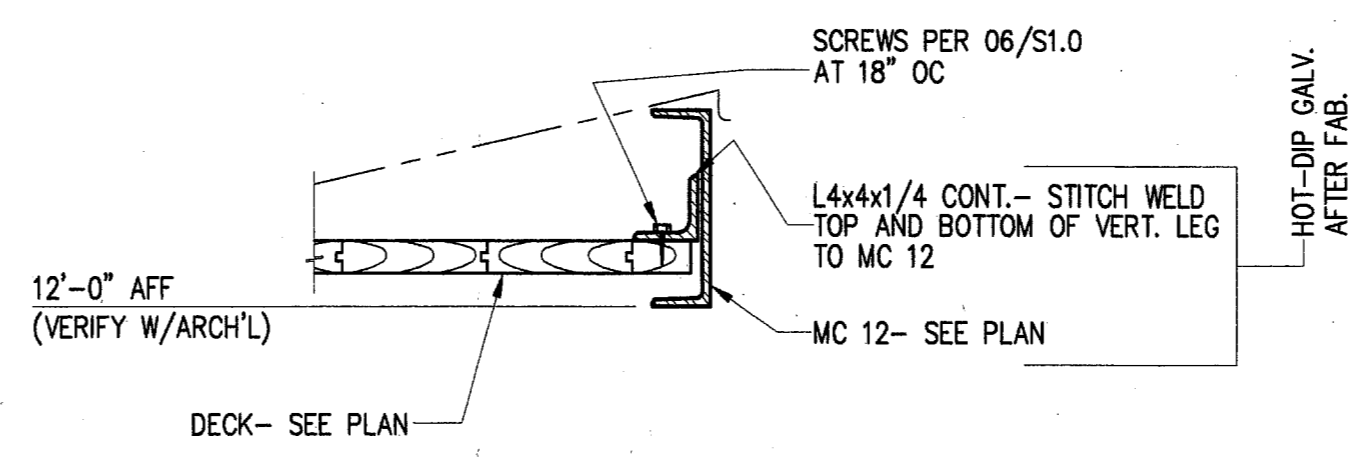
**03 TYP DECK ATTACHMENT**  
SCALE: 1" = 1'-0"



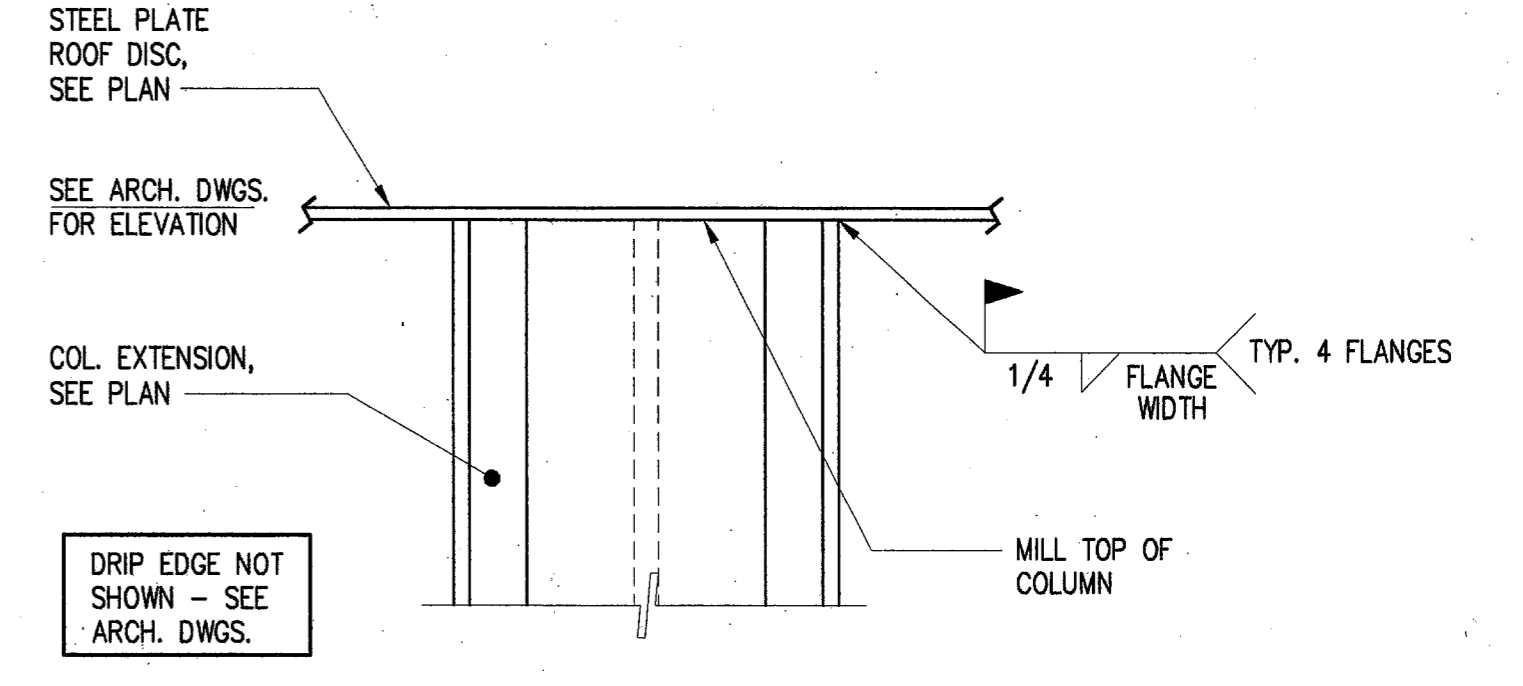
**04 TYPICAL MOMENT CONNX. AT CRUCIFORM COLUMN**  
SCALE: 1 1/2" = 1'-0"



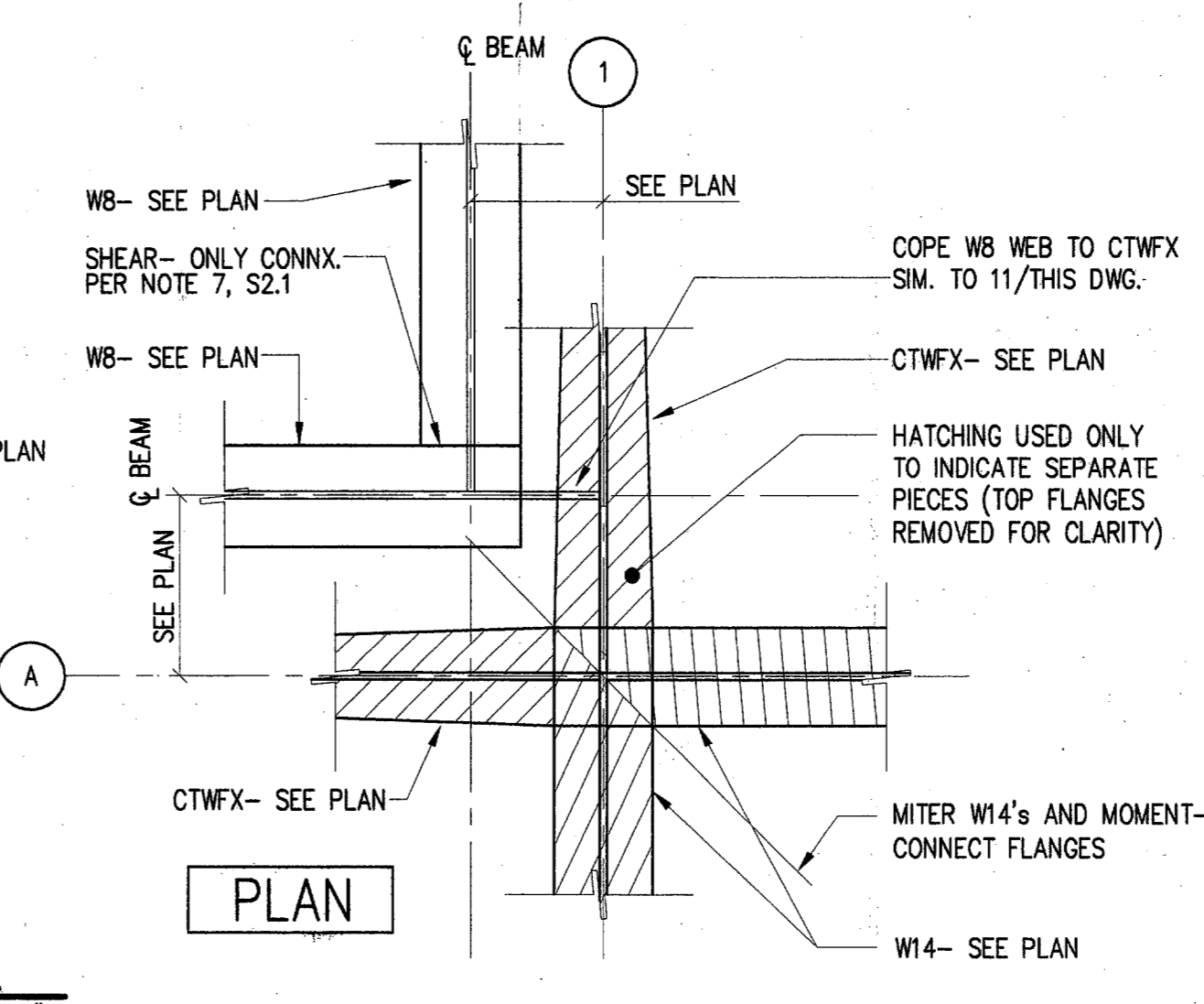
**05 TYPICAL BEAM TO BEAM MOMENT CONNX.**  
SCALE: 1" = 1'-0"



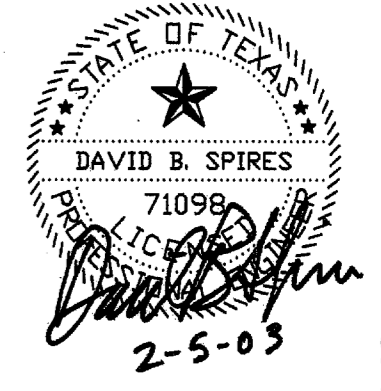
**08 SECTION**  
SCALE: 1" = 1'-0"



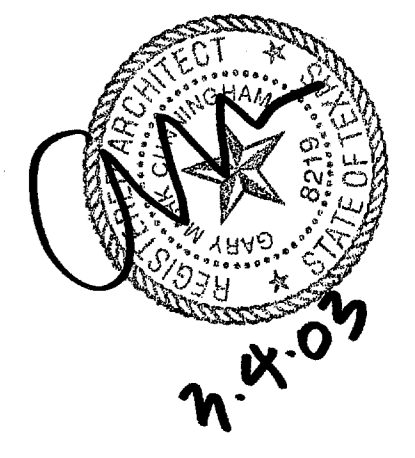
**09 SECTION**  
SCALE: 1 1/2" = 1'-0"



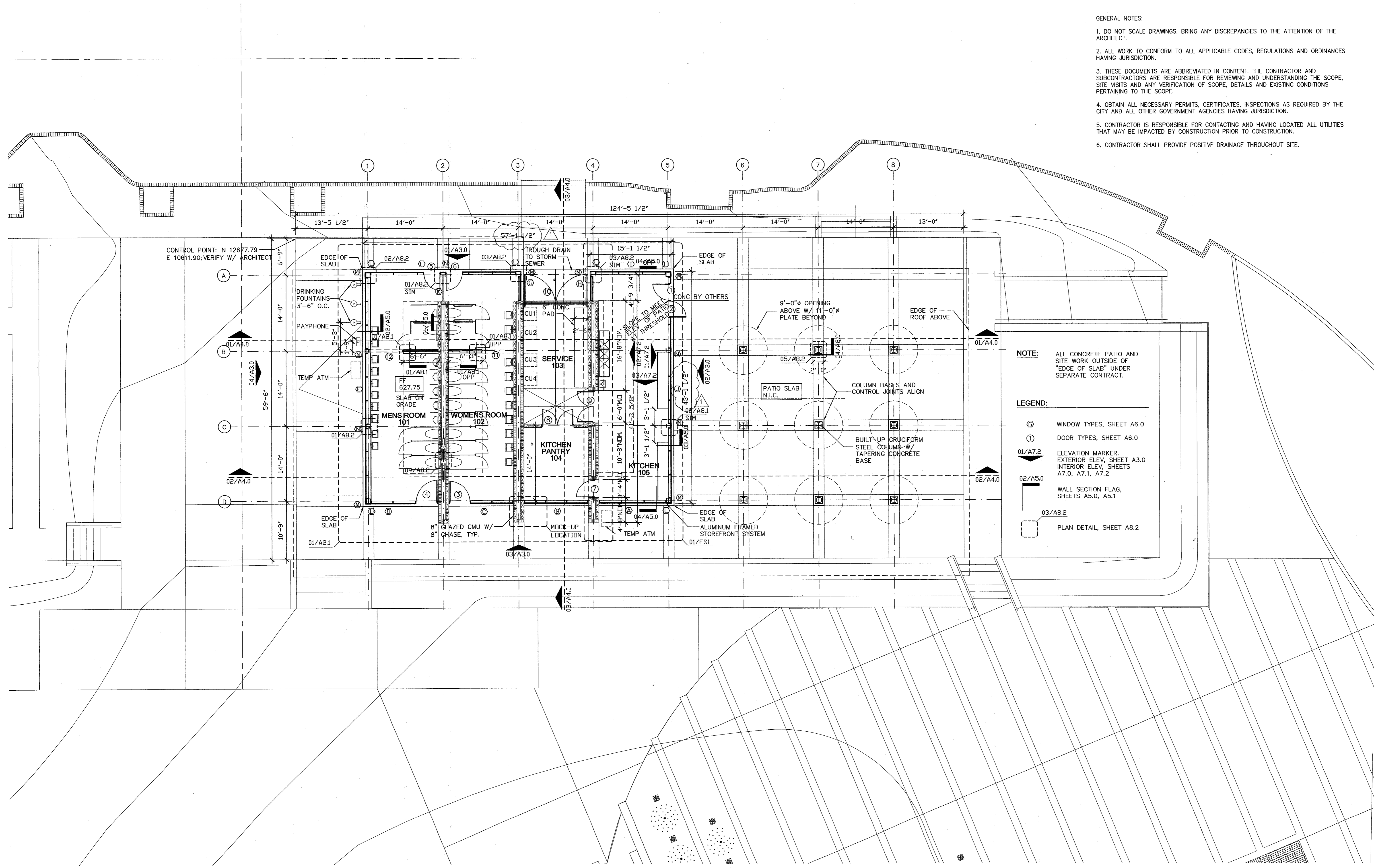
**13 DETAIL**  
SCALE: 1" = 1'-0"







- GENERAL NOTES:
1. DO NOT SCALE DRAWINGS. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT.
  2. ALL WORK TO CONFORM TO ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION.
  3. THESE DOCUMENTS ARE ABBREVIATED IN CONTENT. THE CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING AND UNDERSTANDING THE SCOPE, SITE VISITS AND ANY VERIFICATION OF SCOPE, DETAILS AND EXISTING CONDITIONS PERTAINING TO THE SCOPE.
  4. OBTAIN ALL NECESSARY PERMITS, CERTIFICATES, INSPECTIONS AS REQUIRED BY THE CITY AND ALL OTHER GOVERNMENT AGENCIES HAVING JURISDICTION.
  5. CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND HAVING LOCATED ALL UTILITIES THAT MAY BE IMPACTED BY CONSTRUCTION PRIOR TO CONSTRUCTION.
  6. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE THROUGHOUT SITE.



**NOTE:** ALL CONCRETE PATIO AND SITE WORK OUTSIDE OF "EDGE OF SLAB" UNDER SEPARATE CONTRACT.

**LEGEND:**

- ⊙ WINDOW TYPES, SHEET A6.0
- ⊙ DOOR TYPES, SHEET A6.0
- ▲ ELEVATION MARKER: EXTERIOR ELEV. SHEET A3.0 INTERIOR ELEV. SHEETS A7.0, A7.1, A7.2
- WALL SECTION FLAG, SHEETS A5.0, A5.1
- PLAN DETAIL, SHEET A8.2

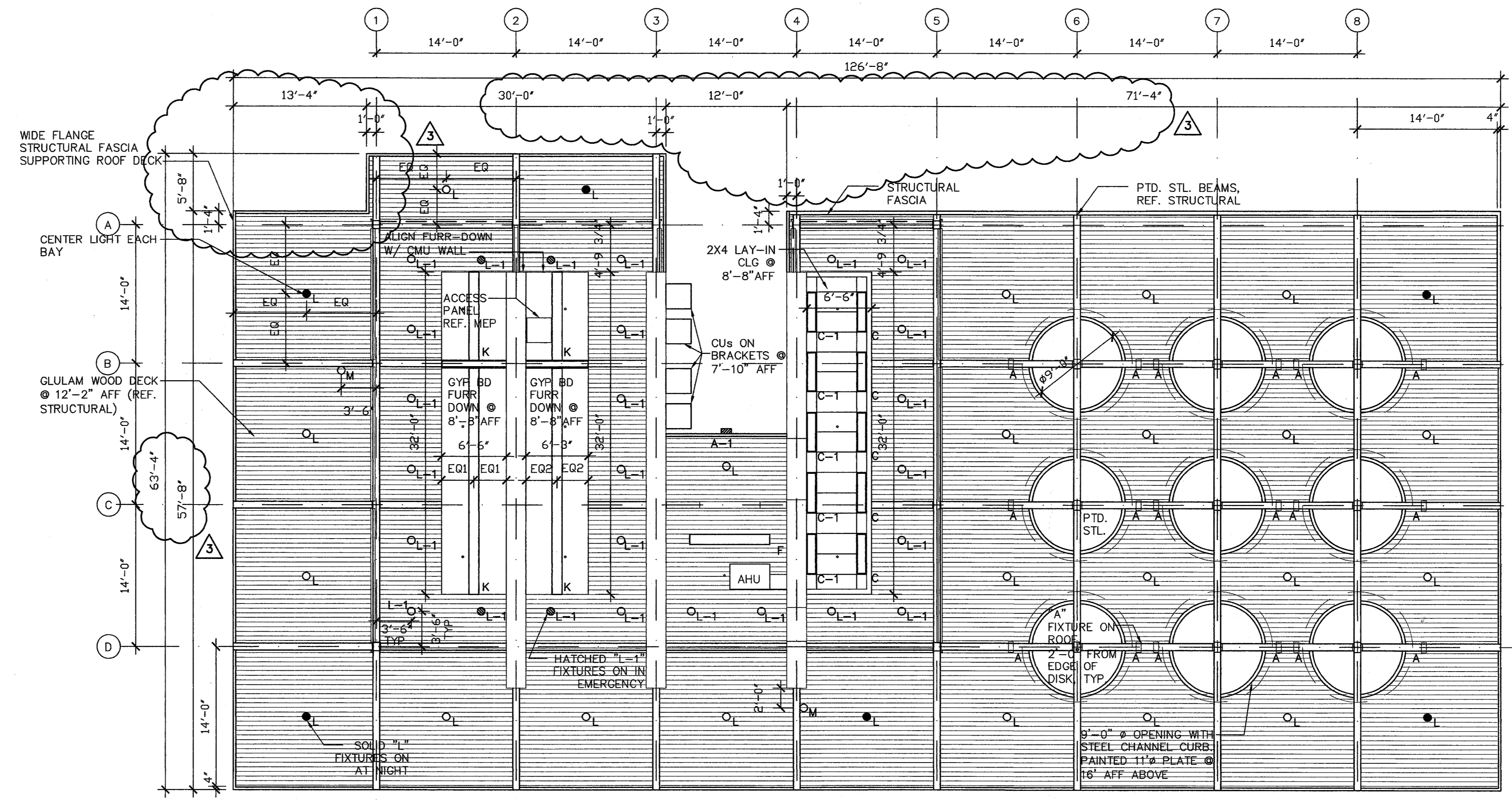
**Addison Arts and Events Pavilion**  
 4970 Addison Circle Drive  
 Addison, Texas

issue	date
DD	06/26/02
50% CD	11/05/02
100% CD	01/23/03
ADDENDUM 1	01/31/03

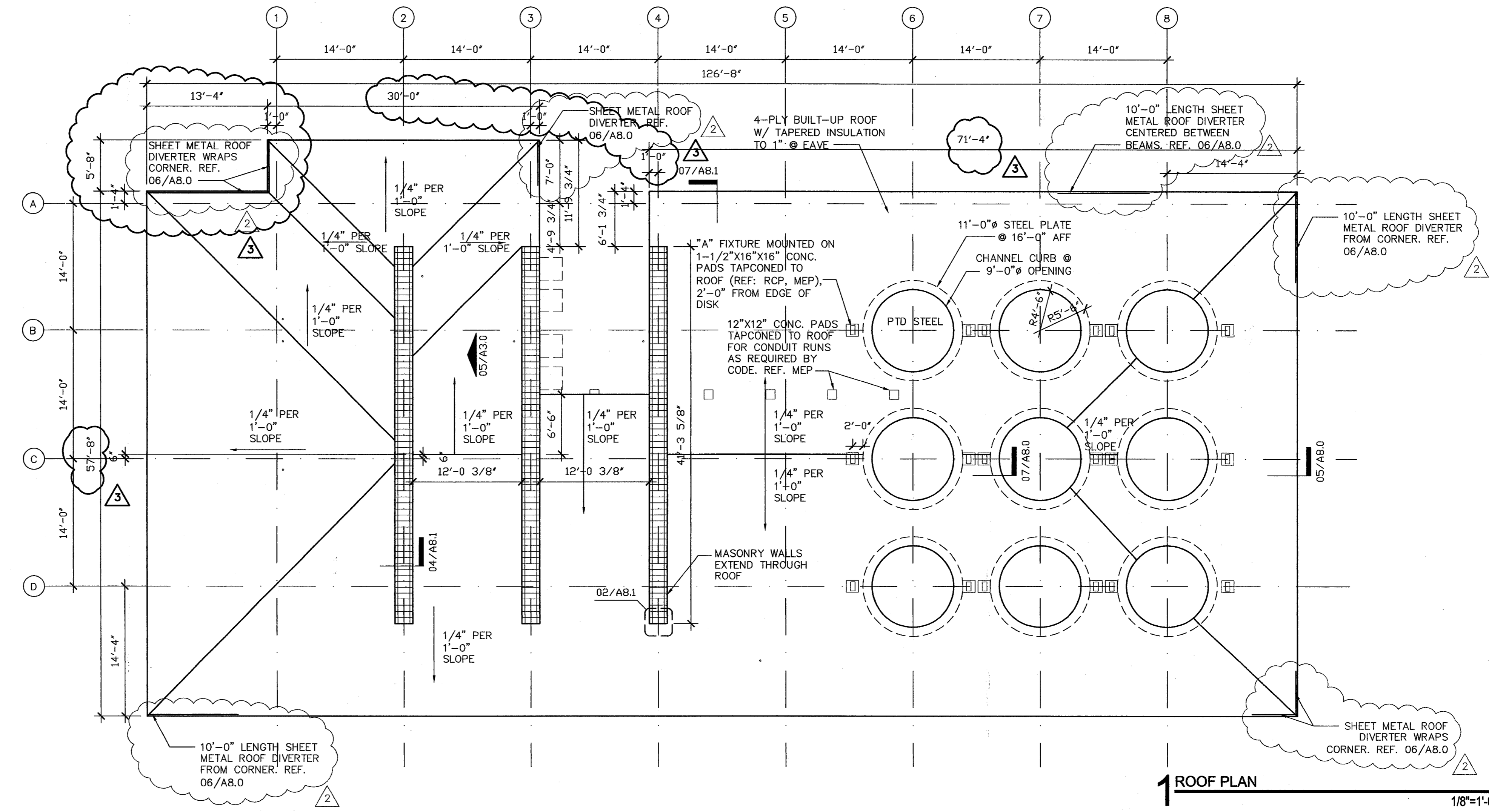


**LIGHT FIXTURE SCHEDULE**

TYPE	BRAND	MODEL NO.	DESCRIPTION	LAMP	VOLTAGE	LOCATION
A	KIM	CFL/50MH120/DB-P	SURFACE MOUNTED METAL HALIDE FLOOD LIGHT, BLACK POLYESTER POWDER COAT FINISH, 1/2 CYLINDER SHAPE 10-1/2" X 8"	1-50W CLEAR METAL HALIDE	120V	ON ROOF
A-1	KIM	AFL-1/175MH120/DB-P	SURFACE MOUNTED METAL HALIDE FLOOD LIGHT, BLACK POLYESTER POWDER COAT FINISH, 1/2 CYLINDER SHAPE 14" X 10-3/4"	1-175W CLEAR METAL HALIDE	120V	ON ROOF
B	NOT USED					
C	COLUMBIA	4PS14232G RA A12 EBB	RECESSED FLUORESCENT 1x4 WITH ACRYLIC LENS, FOR INSTALLATION IN 2x4 LAY-IN CEILING. REGRESSED ALUMINUM FRAME, WITH ELECTRONIC BALLAST.	2-F32T8	120V	KITCHEN
C-1	COLUMBIA	4PS14132G RA A12 EBB	SIMILAR TO TYPE C, EXCEPT FOR ONE LAMP WIDE.	1-F32T8	120V	KITCHEN
D	NOT USED					
E	NOT USED					
F	HUBBELL	232B	SURFACE MOUNTED FLUORESCENT STRIP, 2 LAMPS WIDE 4'-0" LONG, ELECTRONIC BALLAST, WITH WIRE GUARD.	2-F32T8	120V	ELECTRIC ROOM
G	NOT USED					
H	NOT USED					
I	NOT USED					
J	NOT USED					
K	ALERA	CL12118F WCB EBB	RECESSED CONTINUOUS FLUORESCENT, 1'-0" WIDE, LENGTH AS SHOWN ON DRAWINGS, WITH 1" WHITE BLADE LOUVER, 1" O.C.	1-32W T8 PER 4'-0" ELECTRONIC BALLAST	120V	TOILET
L	KIM	WF20P70MMH120 BL-P	SURFACE MOUNTED METAL HALIDE WITH PRISMED LENS. BLACK FINISH ON METAL HOUSING.	1-70W METAL HALIDE	120V	PAVILION
L-1	KIM	WF20P32PLWH-P	SIMILAR TO TYPE L EXCEPT FOR WHITE PAINT FINISH AND FLUORESCENT LAMPS.	32W PL	120V	KITCHEN TOILET
M	PRESCOLITE	#HCRW08BL	BRACKET MOUNTED METAL HALIDE DOWNLIGHT, WITH SPECULAR CLEAR ALZAK REFLECTOR, 8", 13-3/8" HT. BLACK FINISH	1-100W ED17 METAL HALIDE	120V	ATM MACHINES

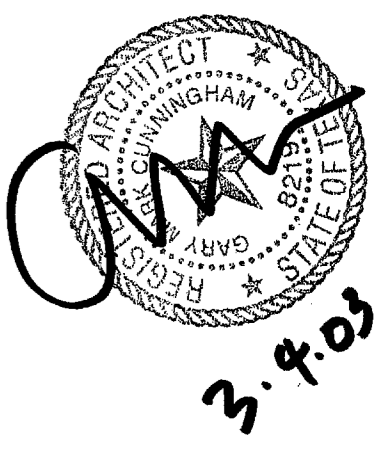


**2 REFLECTED CEILING PLAN**  
1/8"=1'-0"



**1 ROOF PLAN**  
1/8"=1'-0"

**cunningham architects**  
918 Dragon Street  
Dallas, Texas 75207  
v 214.915.0900  
f 214.915.0901

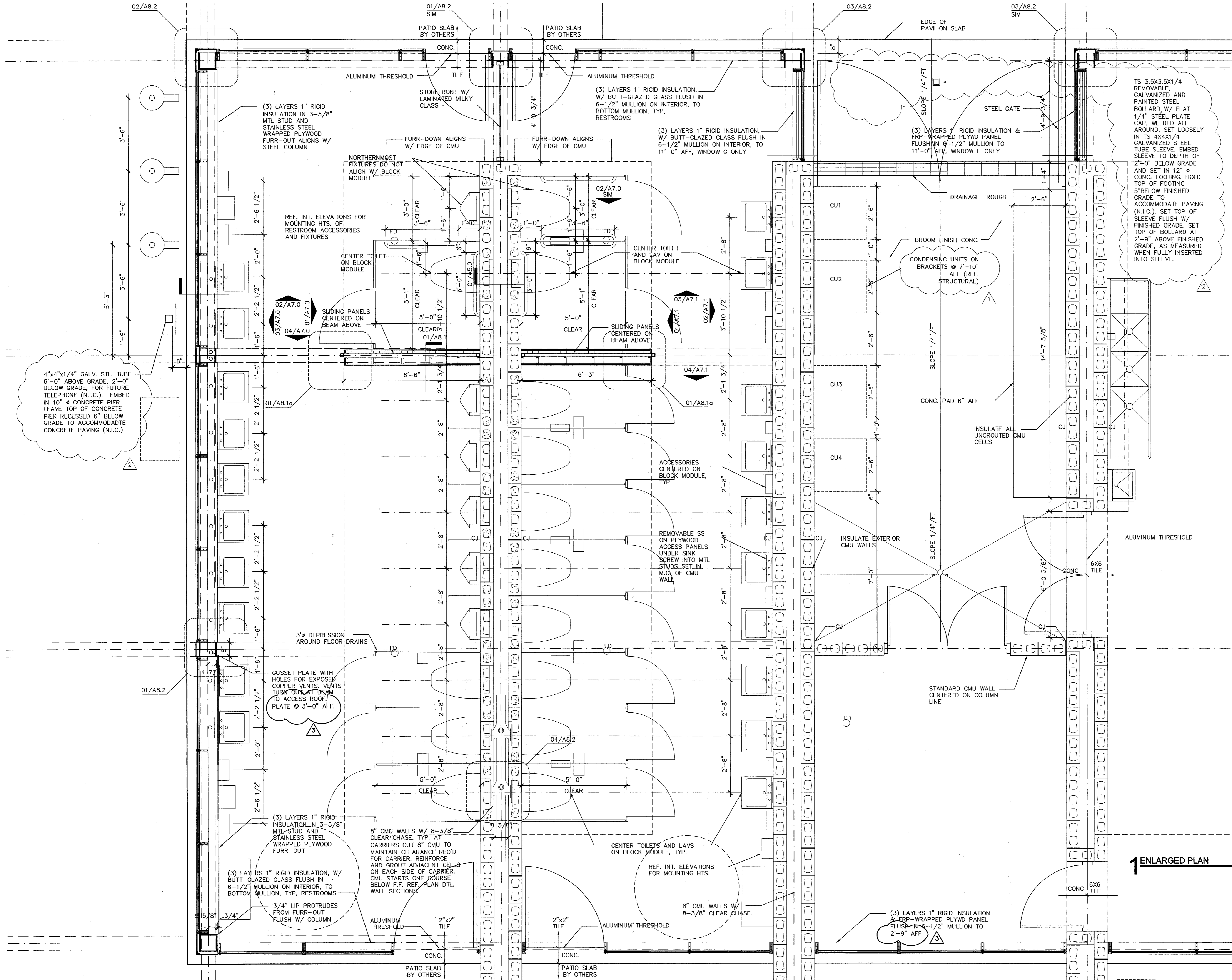


**Addison Arts and Events Pavilion**  
4970 Addison Circle Drive  
Addison, Texas

issue	date
DD	08/26/02
50% CD	11/05/02
100% CD	01/23/03
ADDENDUM1	01/31/03
ADDENDUM2	02/06/03
POST-BID REVISION	03/04/03

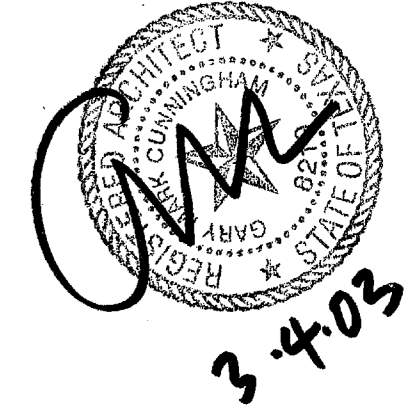
**A2.0**  
ROOF PLAN  
REFLECTED  
CEILING PLAN





**cunningham**  
architects

918 Dragon Street  
Dallas, Texas 75207  
V 214.915.0900  
F 214.915.0901



**Addison Arts and  
Events Pavilion**

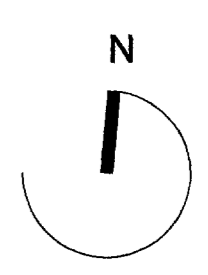
4970 Addison Circle Drive  
Addison, Texas

date  
08/26/02  
11/05/02  
01/23/03  
01/31/03  
02/06/03  
03/04/03

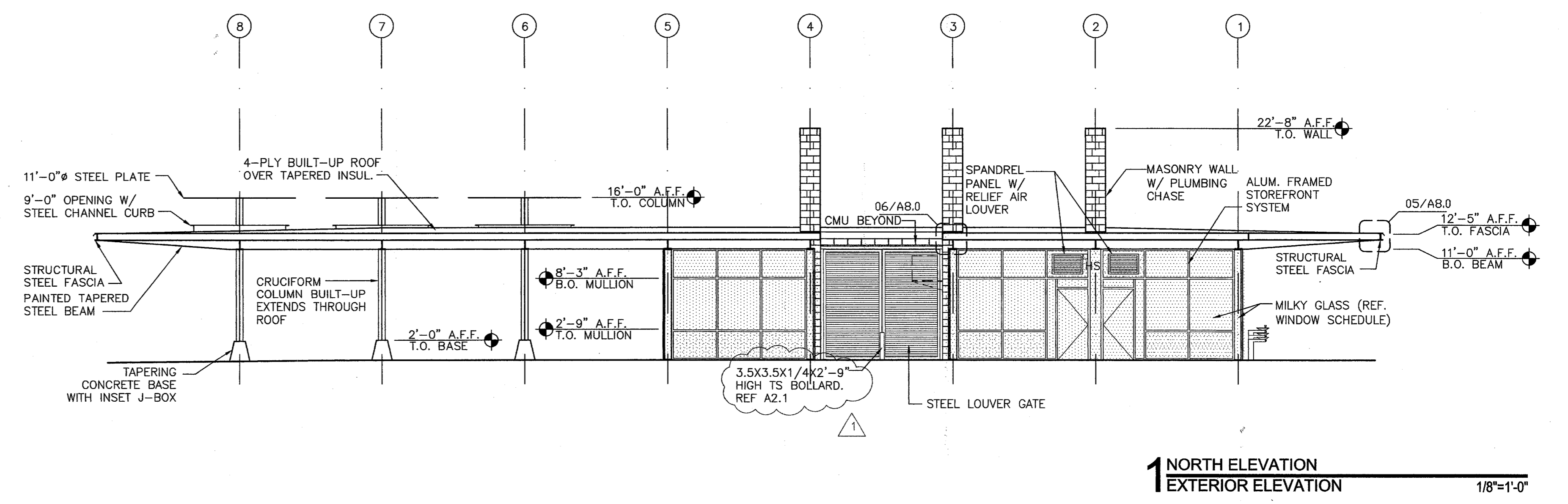
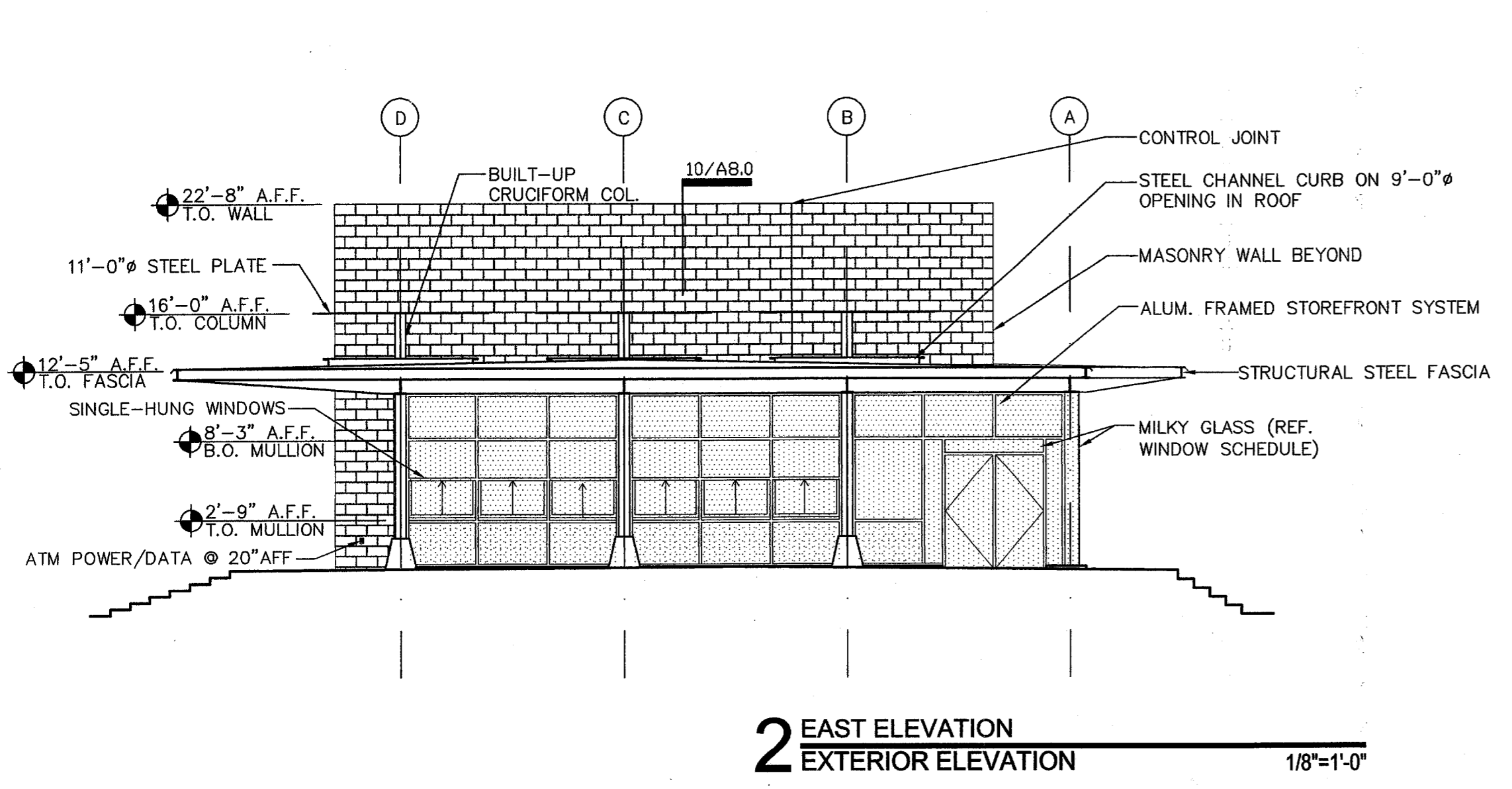
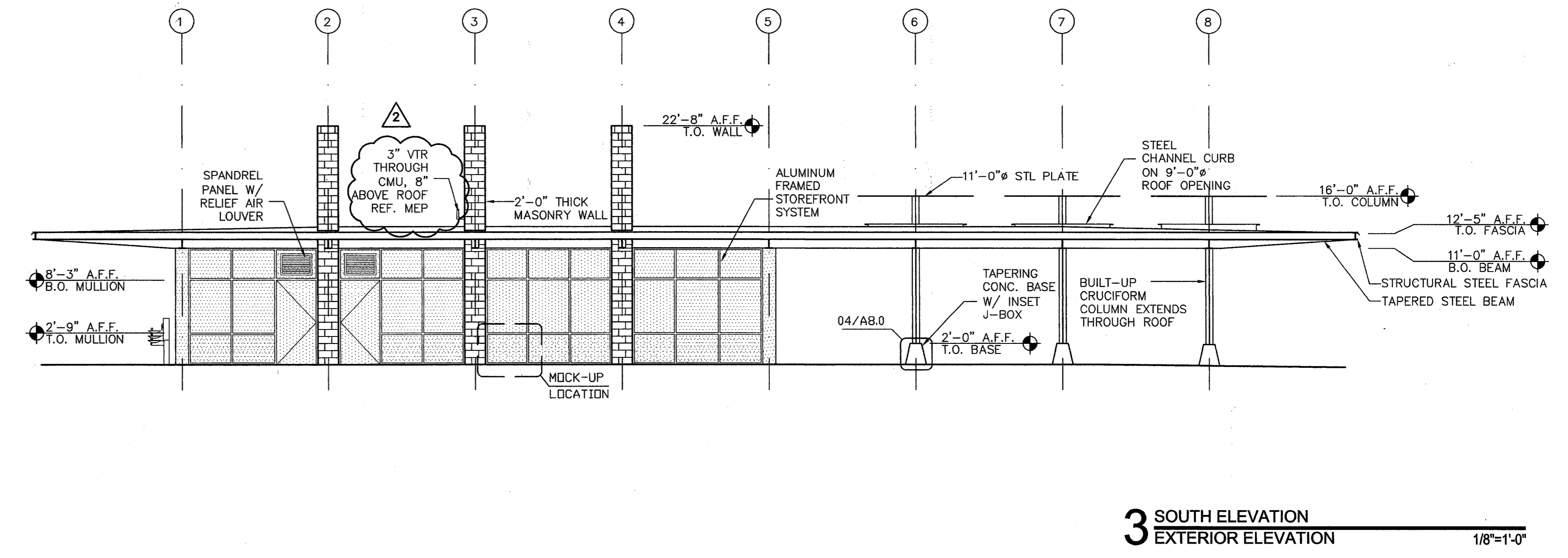
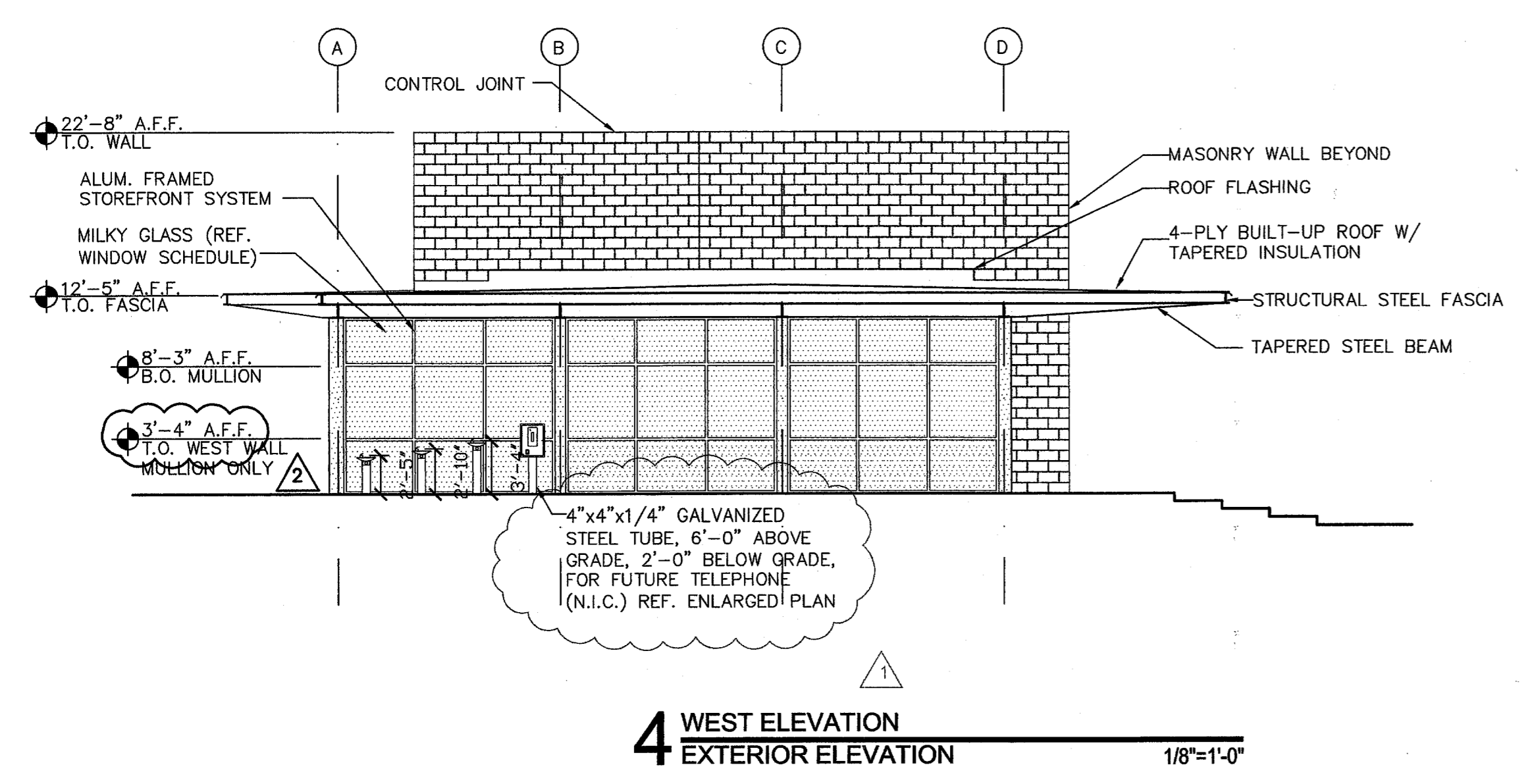
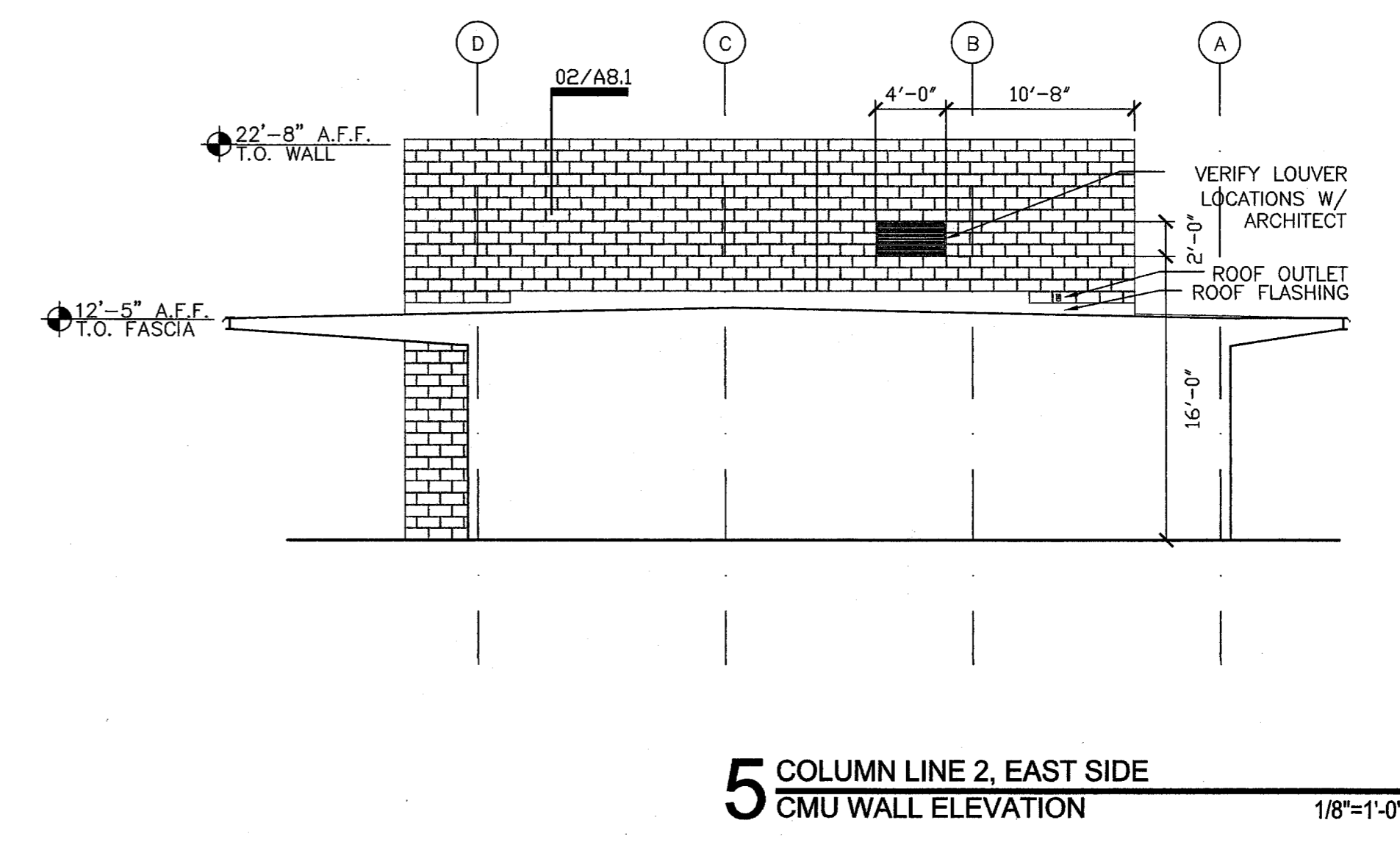
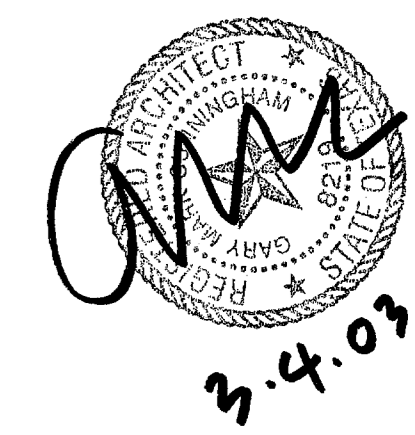
issue  
DD 50% CD  
100% CD  
ADDENDUM1  
ADDENDUM2  
POST-BID REVISION

**A2.1**  
ENLARGED  
PLAN

**1 ENLARGED PLAN**  
1/2"=1'-0"





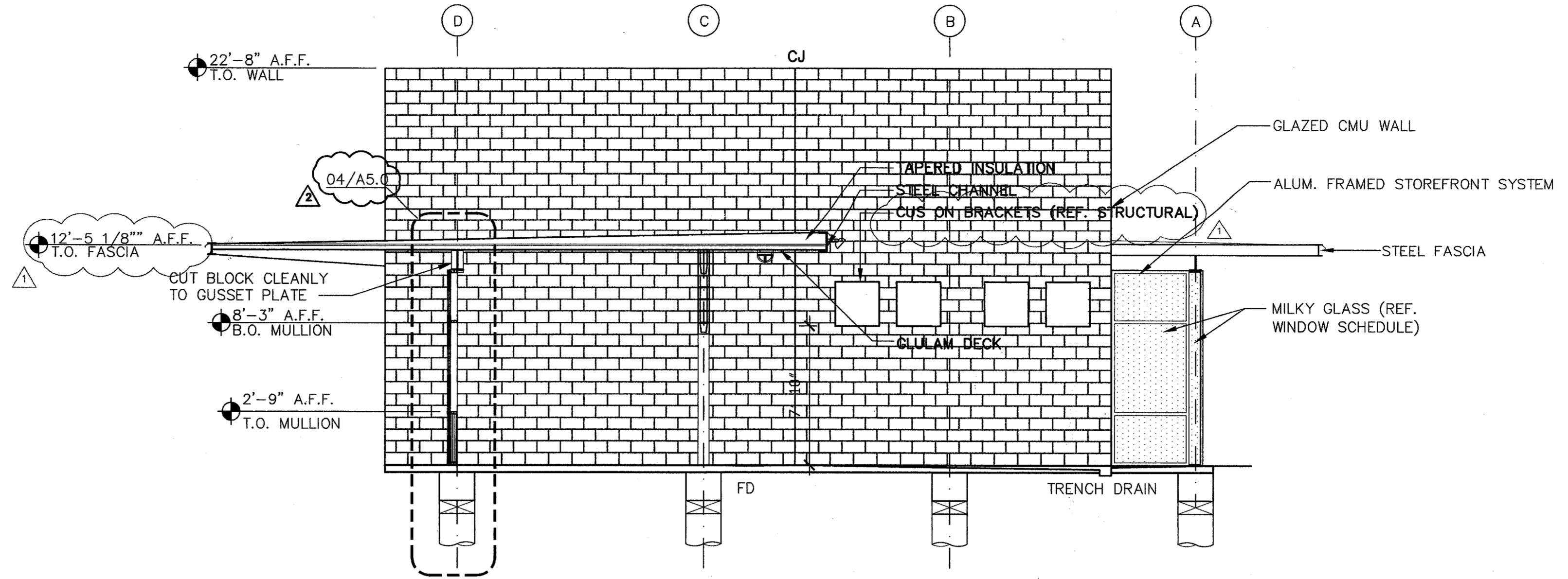


issue	date
DD	08/26/02
50% CD	11/05/02
100% CD	02/06/03
POST-BID	03/04/03

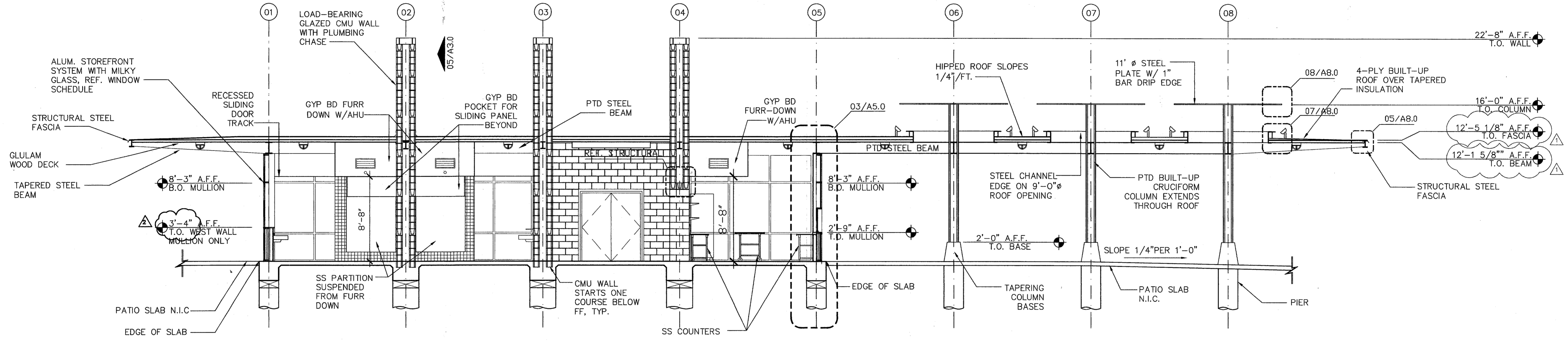




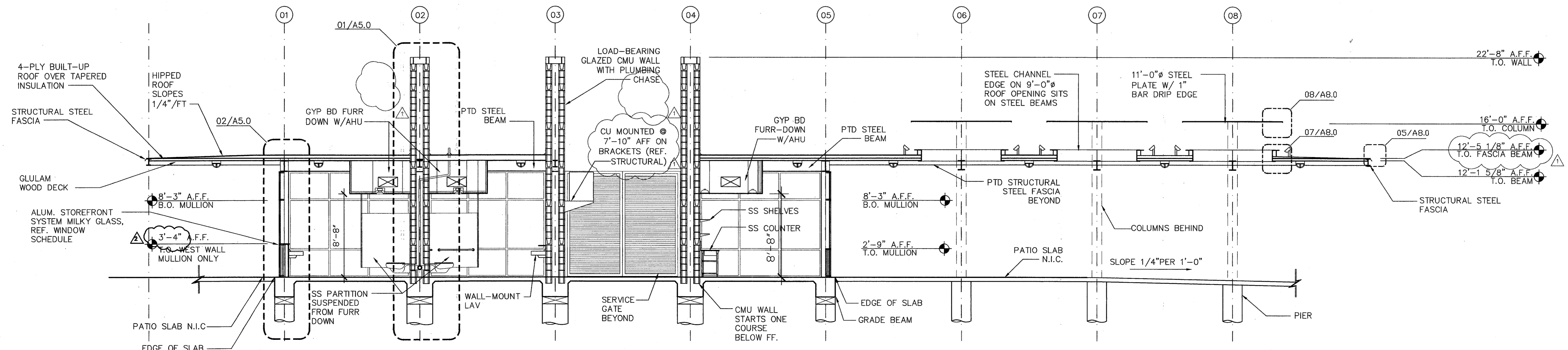
3-9-03



**3 NORTH/SOUTH BUILDING SECTION**  
 LOOKING WEST 3/16"=1'-0"



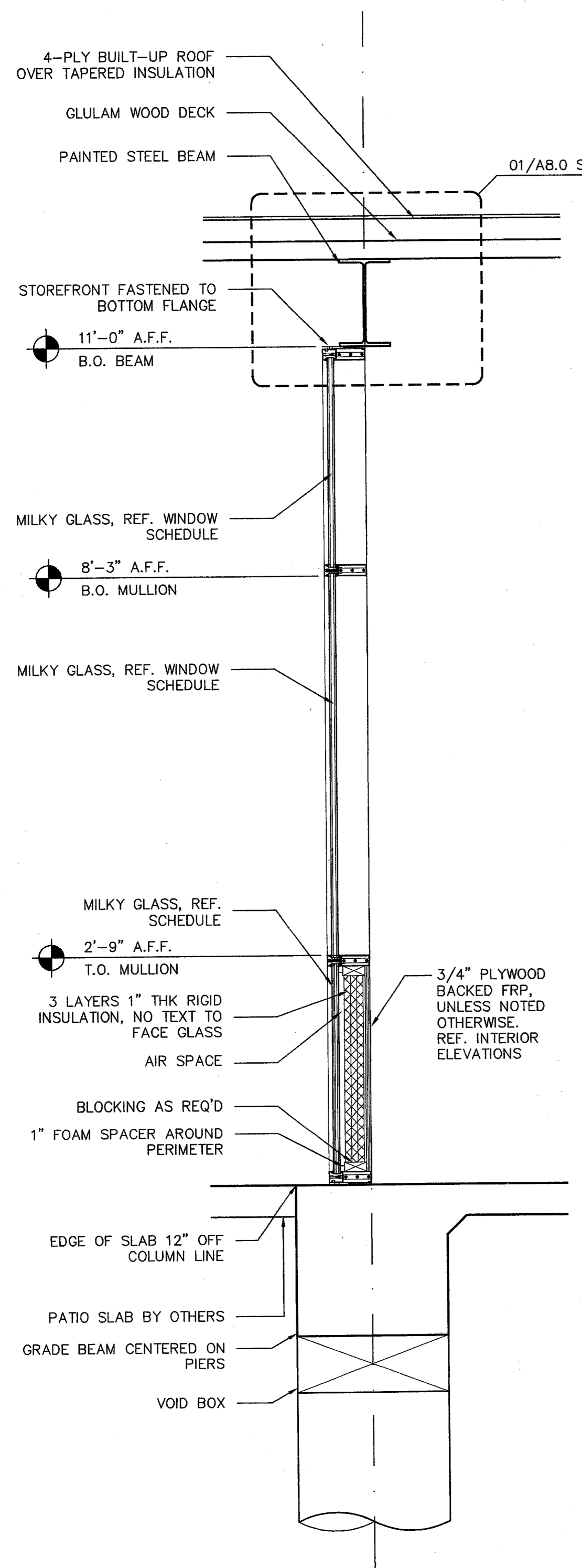
**2 EAST/WEST BUILDING SECTION**  
 LOOKING NORTH 3/16"=1'-0"



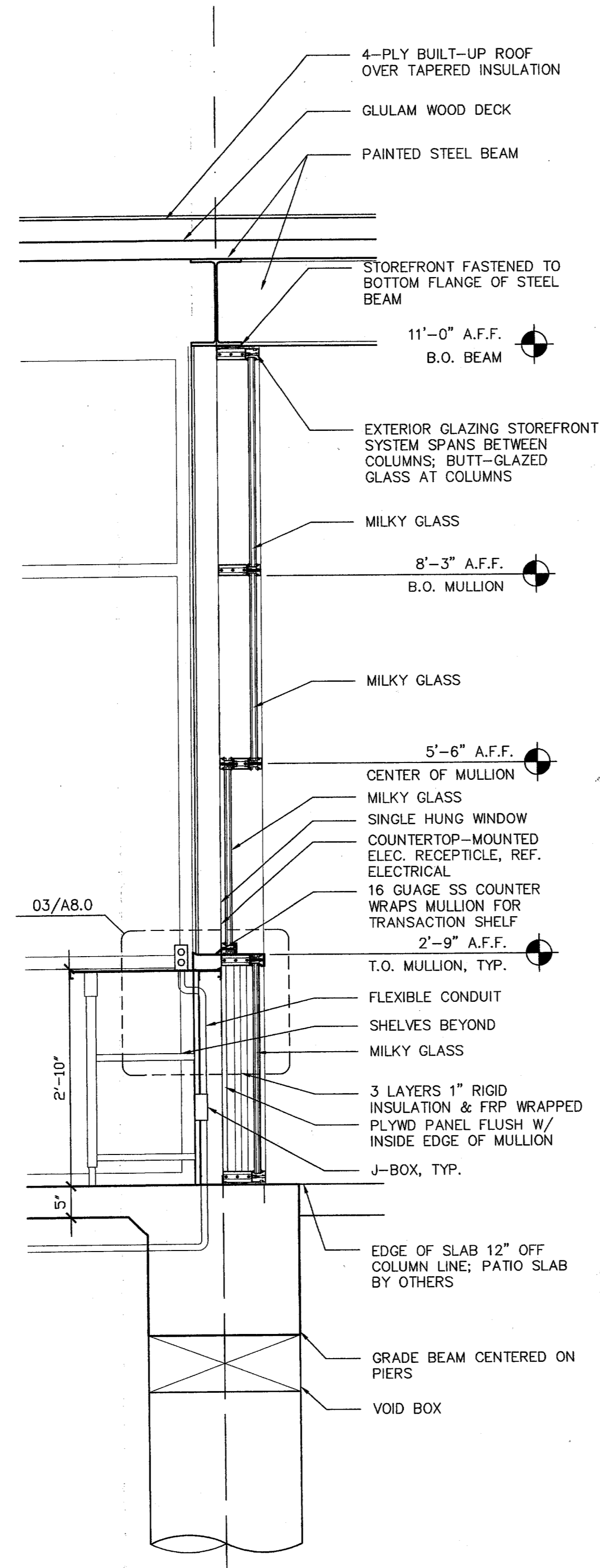
**1 EAST/WEST BUILDING SECTION**  
 LOOKING NORTH 3/16"=1'-0"

date	issue
08/26/02	DD
11/05/02	50% CD
07/23/03	100% CD
01/31/03	ADDENDUM 1
03/04/03	POST-BID REVISION

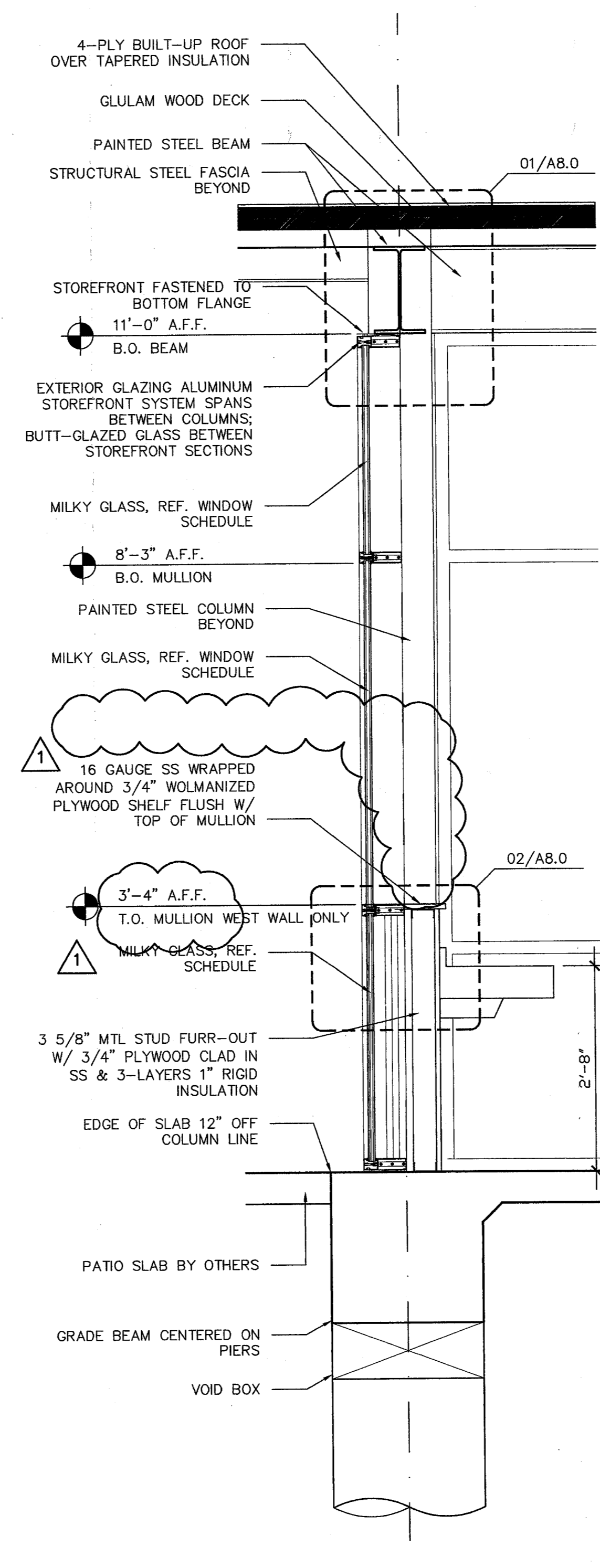




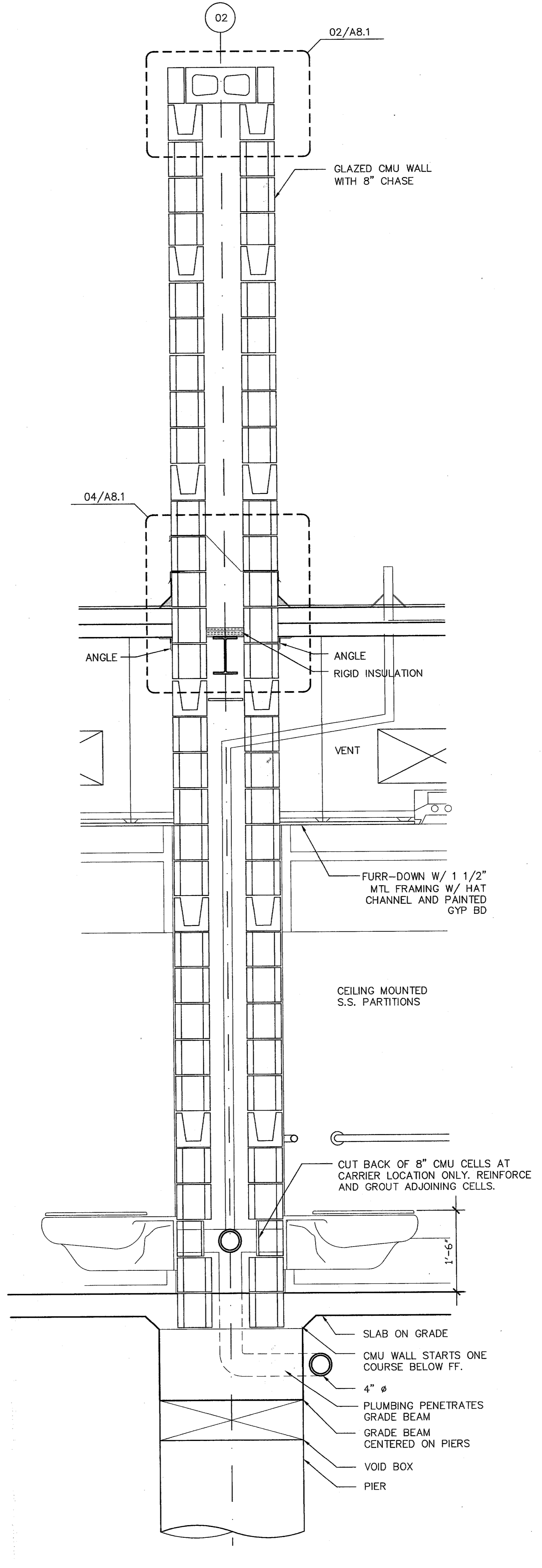
**4** TYP. STOREFRONT SECTION  
WALL SECTION 3/4"=1'-0"



**3** SECTION @ KITCHEN  
WALL SECTION 3/4"=1'-0"



**2** SECTION @ MEN'S ROOM  
WALL SECTION 3/4"=1'-0"

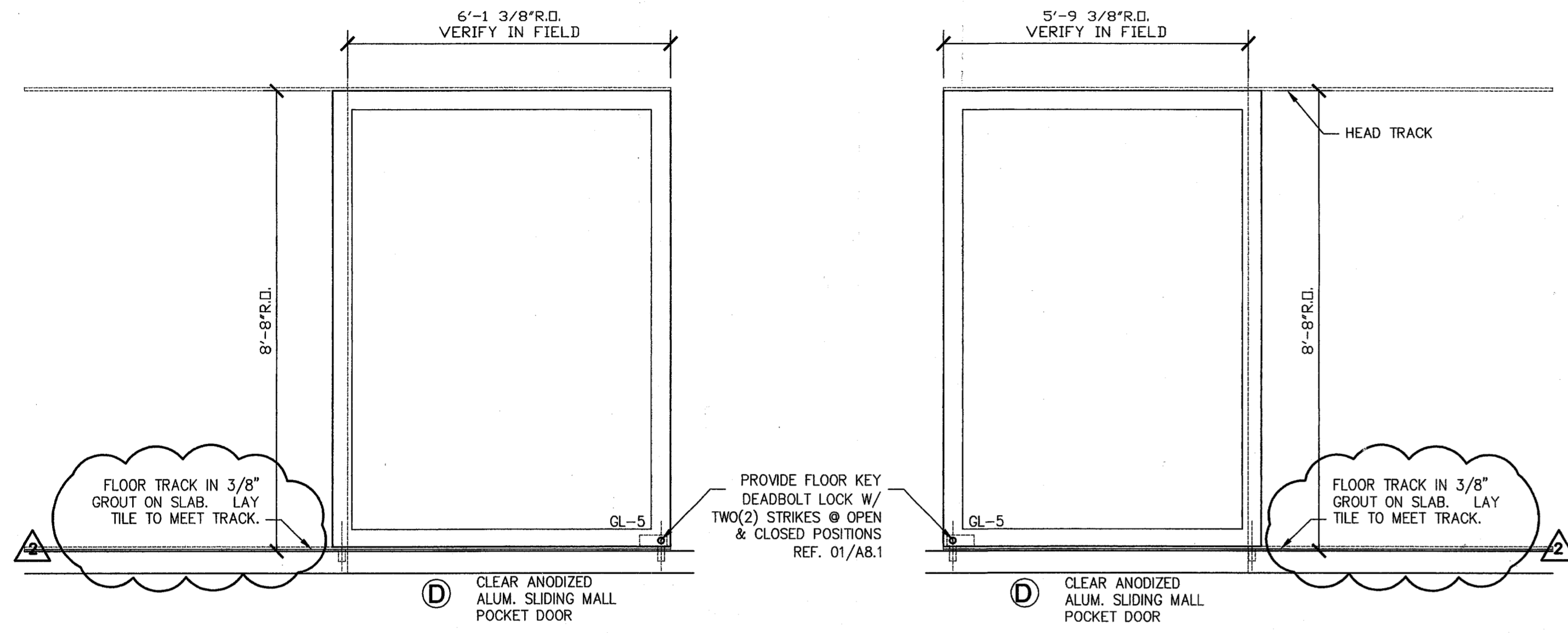


**1** SECTION @ CMU WALL  
WALL SECTION 3/4"=1'-0"

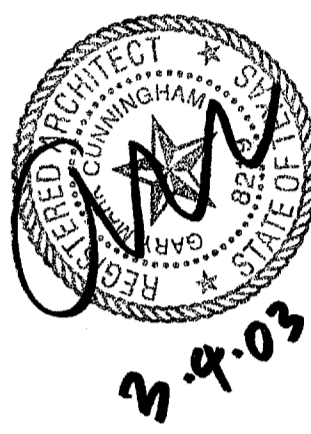
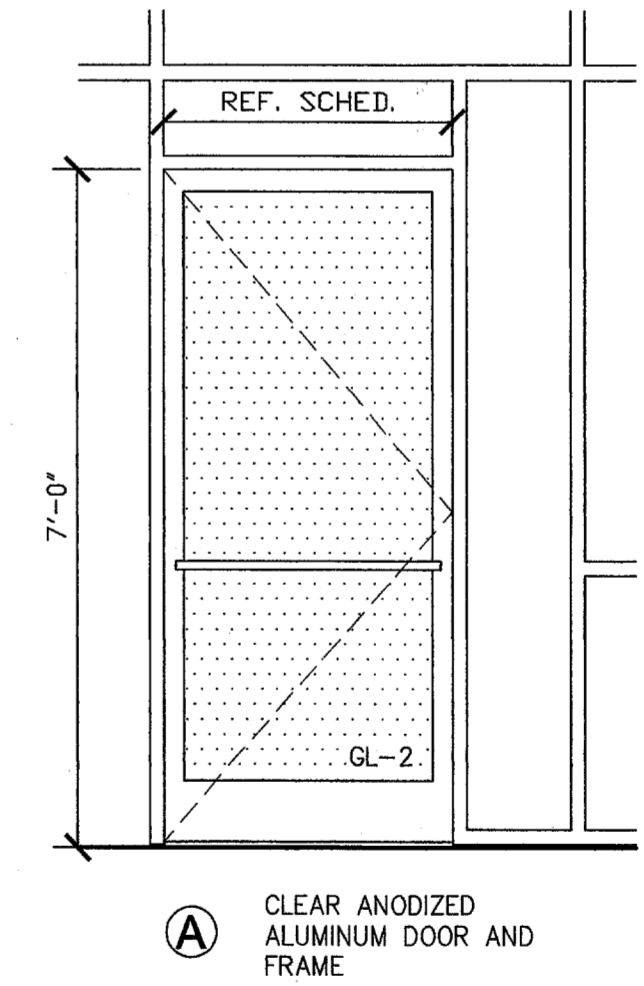
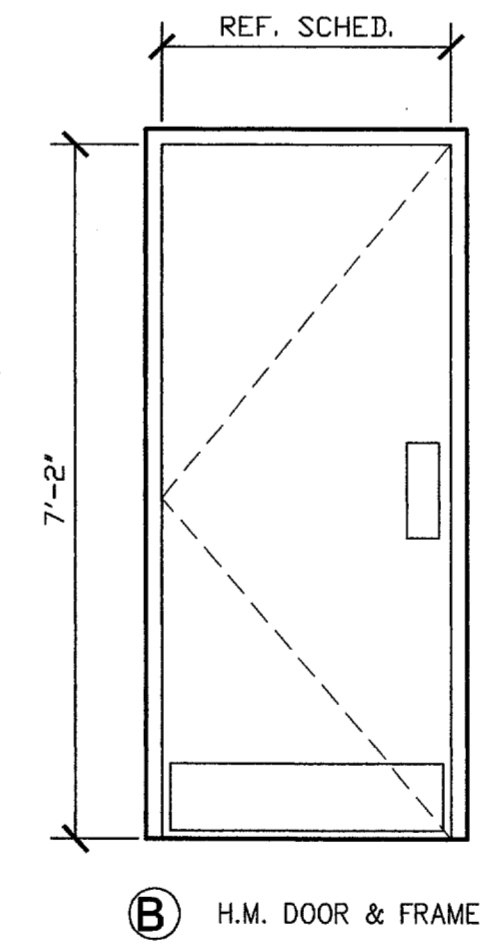
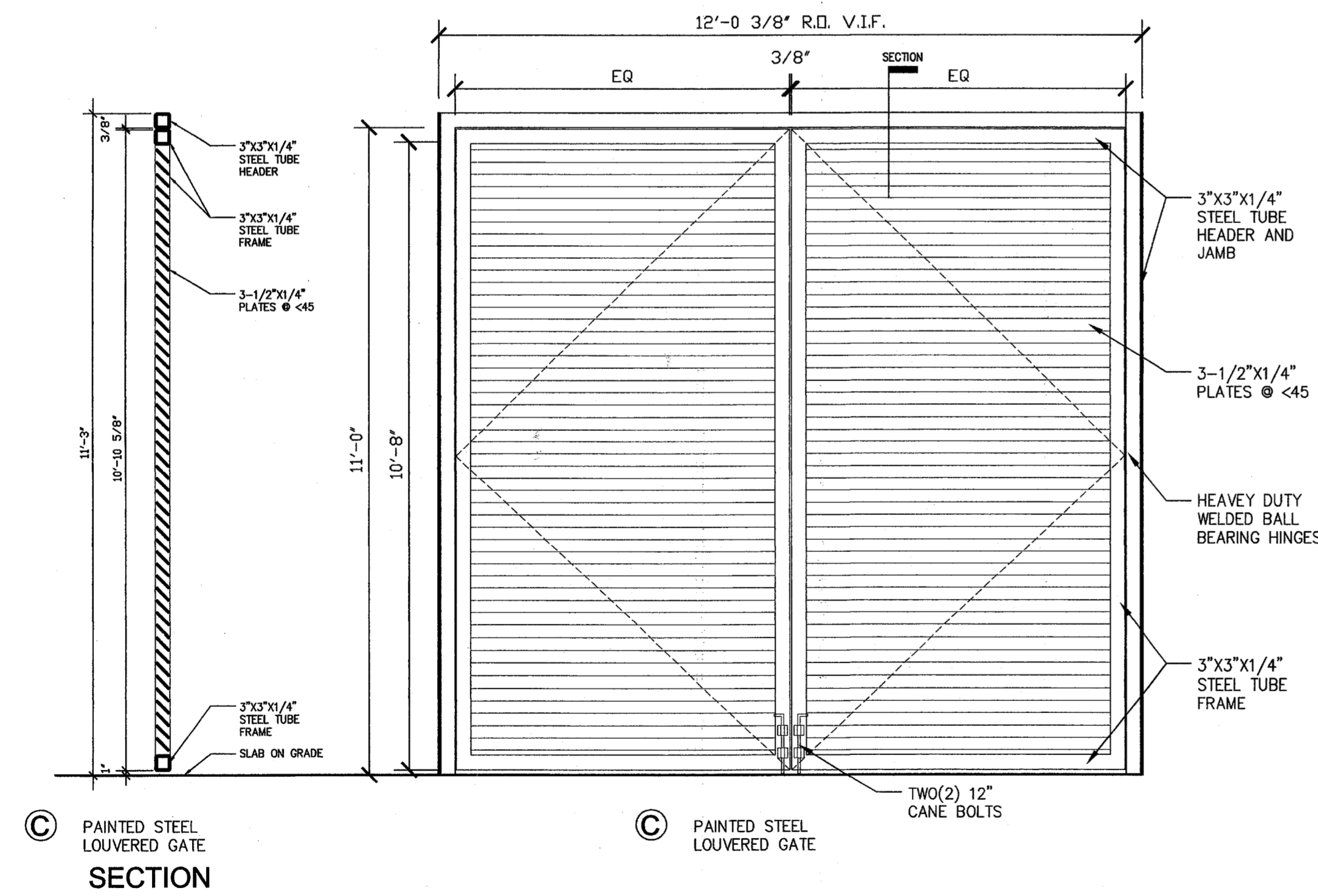


date 08/05/02  
01/05/02  
01/23/03  
issue DD CD  
100% CD  
POST-BID REVISION 03/04/03

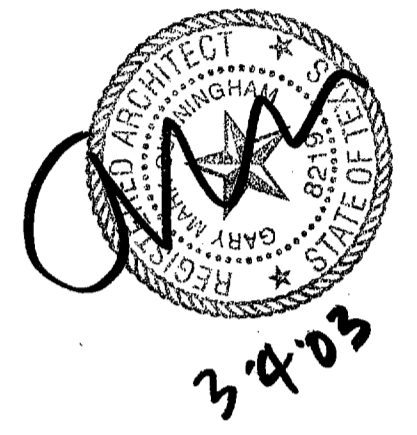




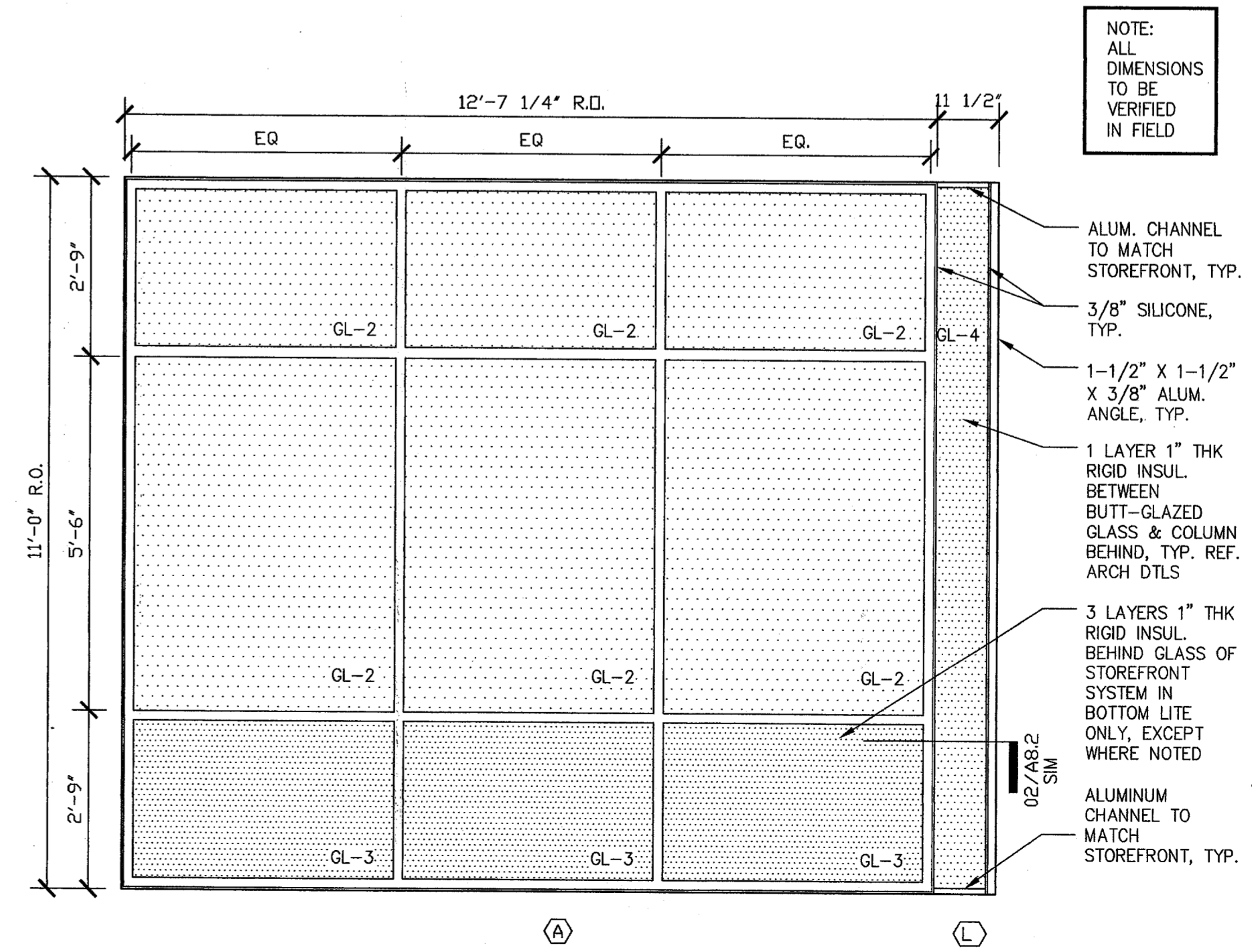
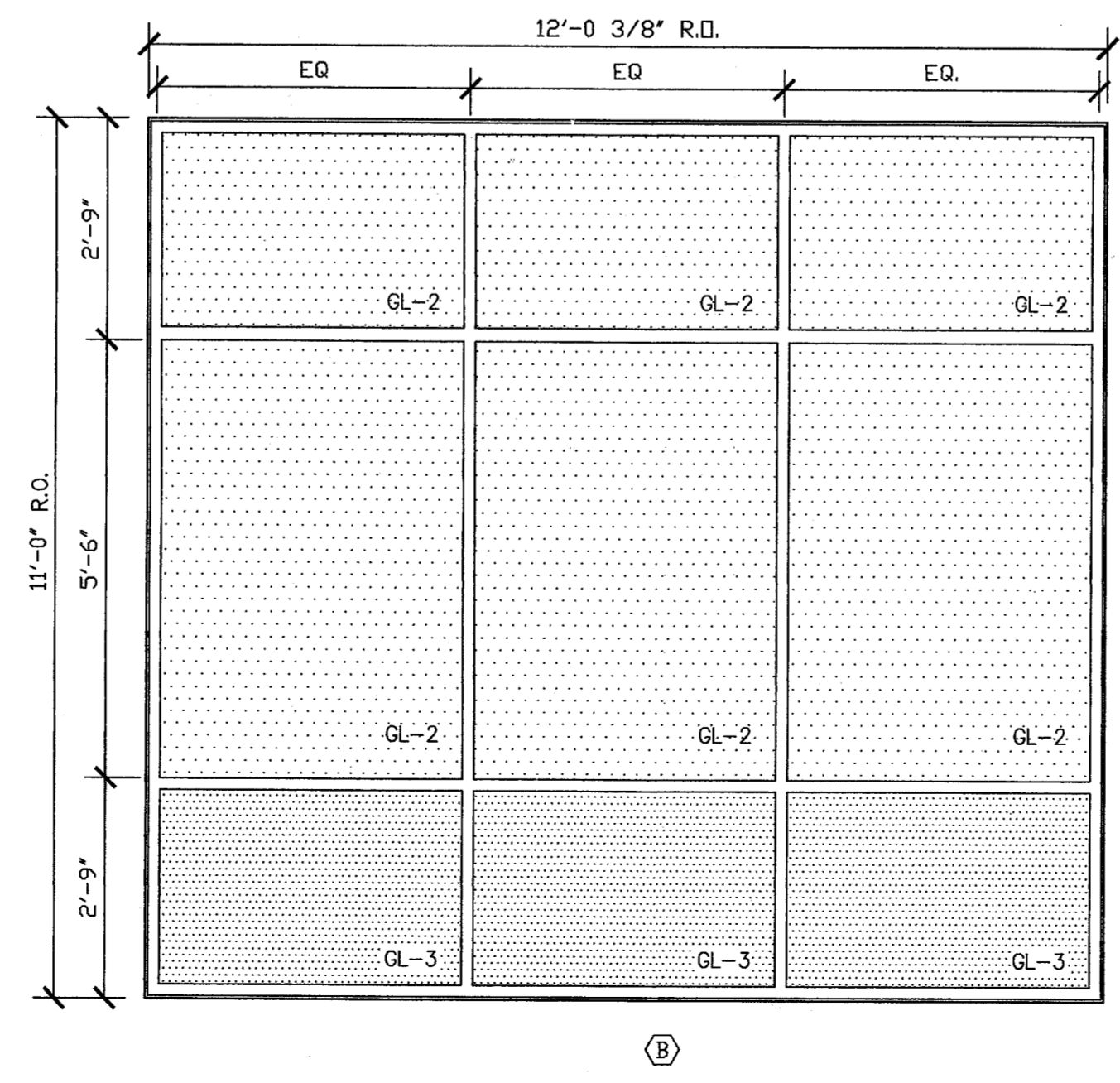
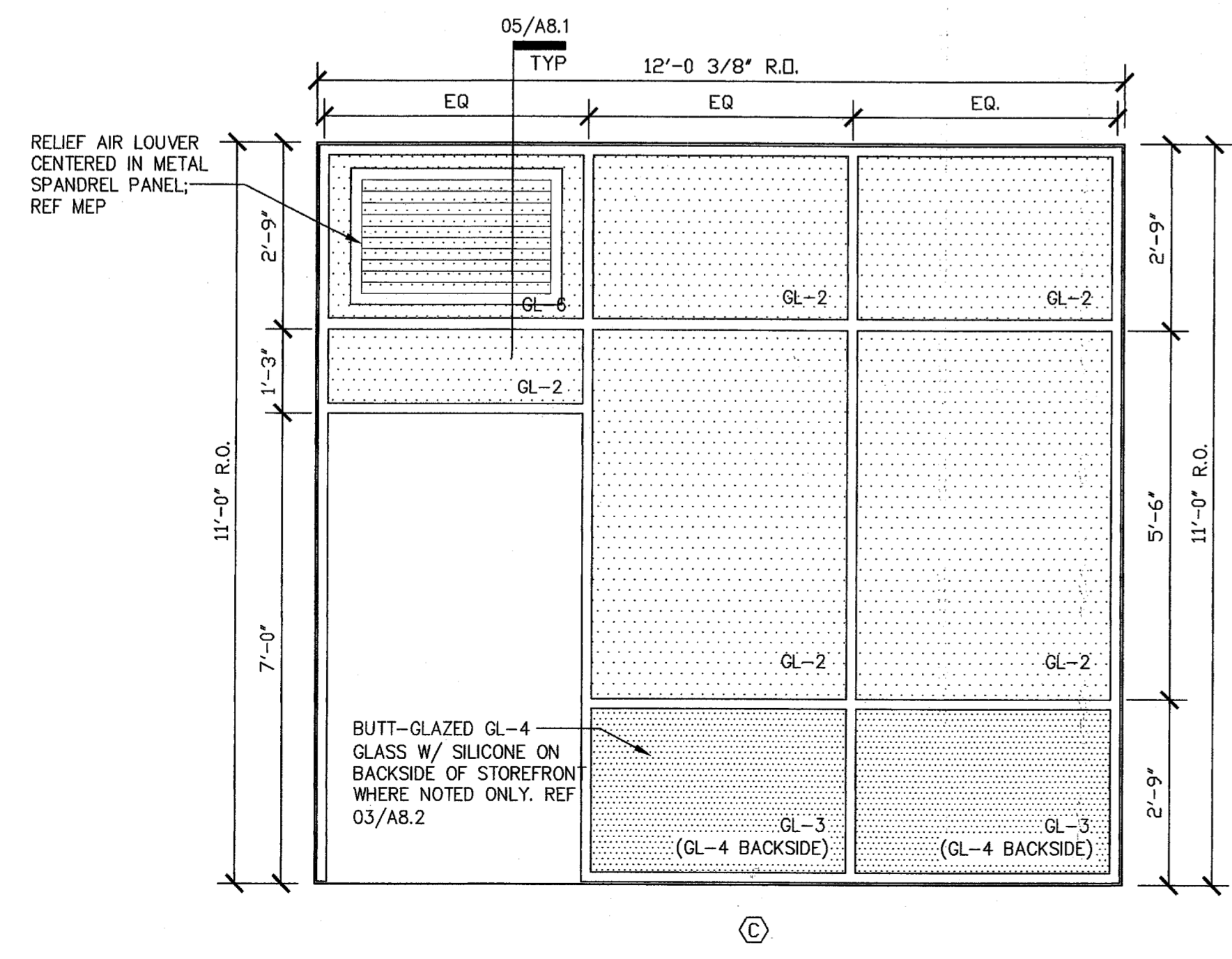
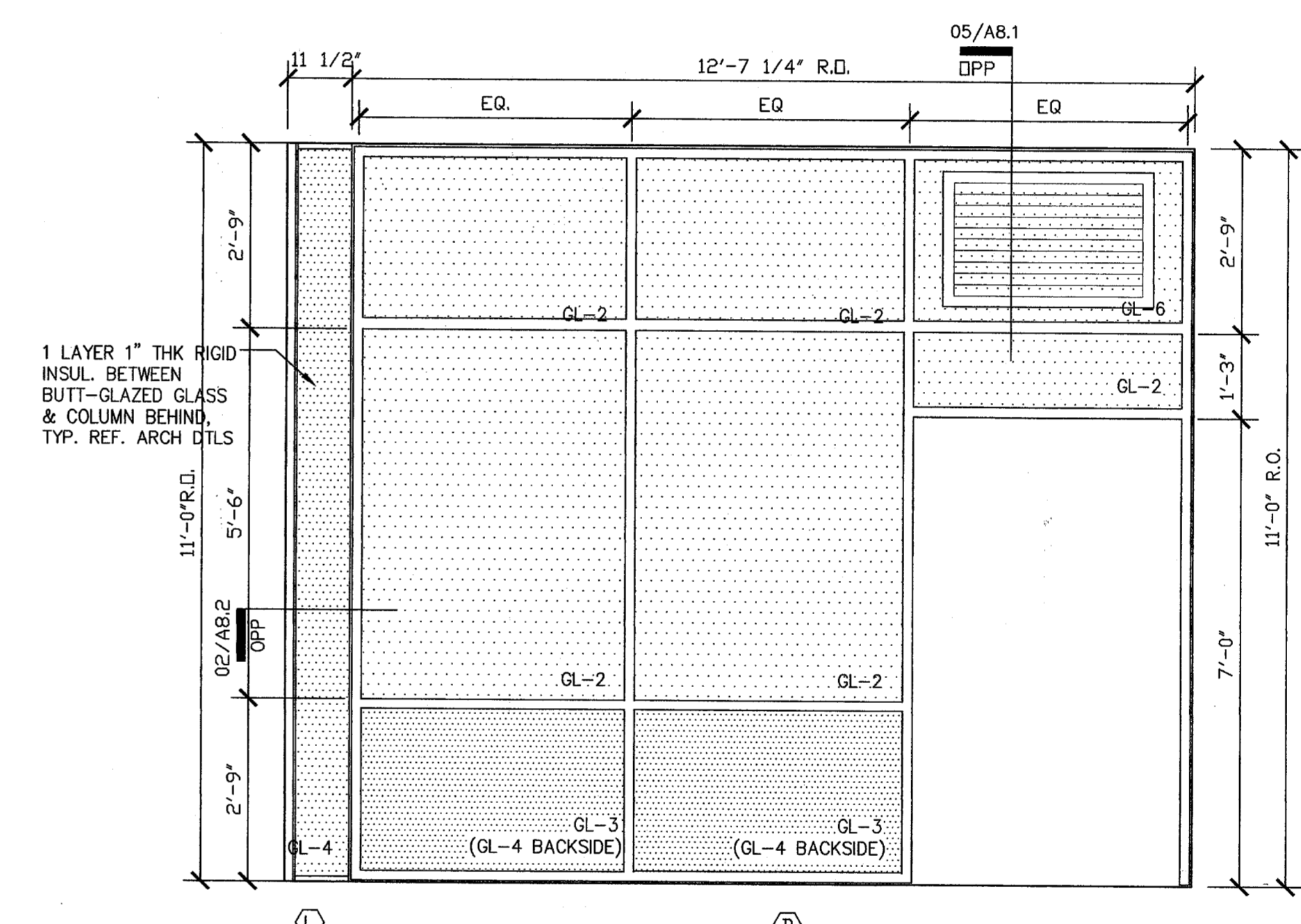
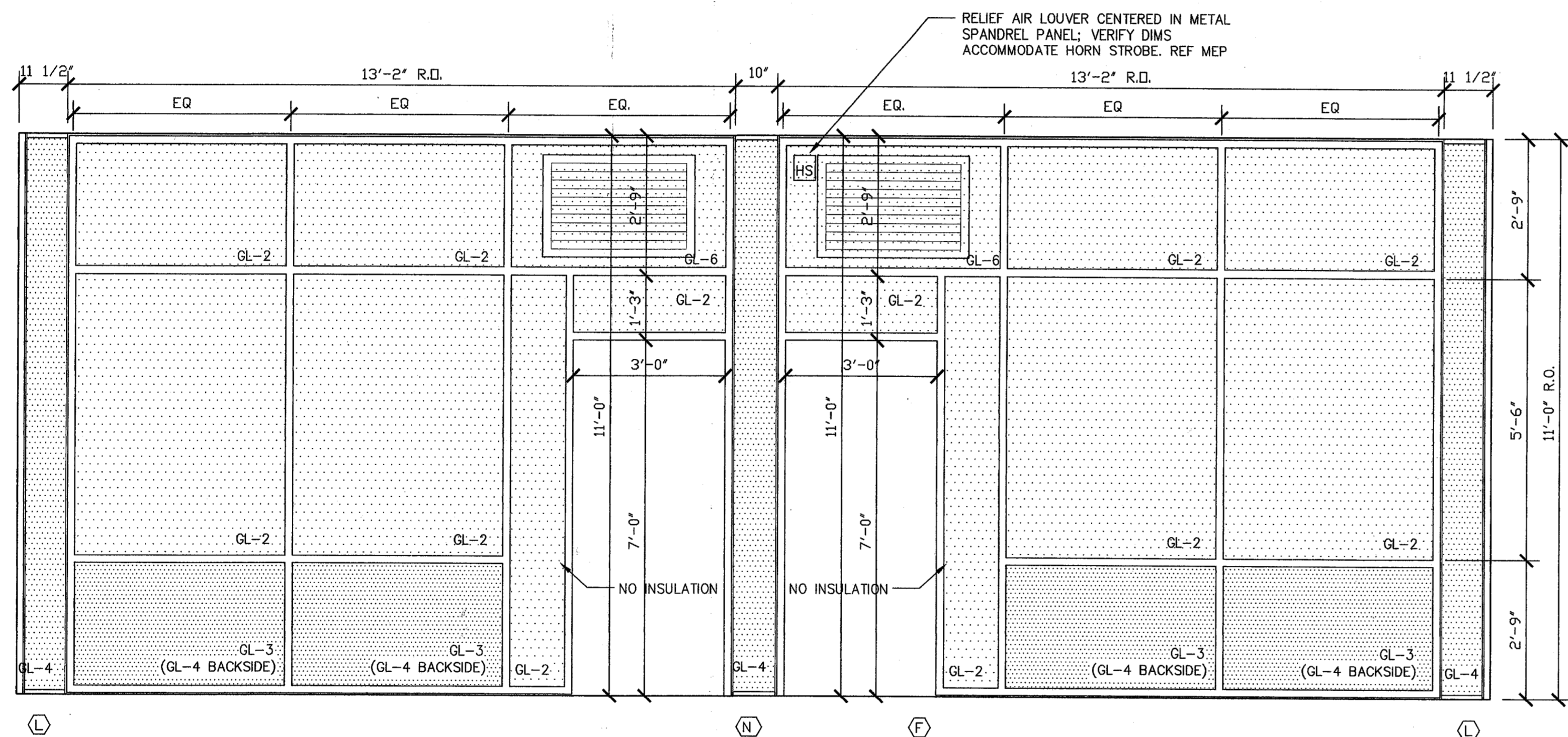
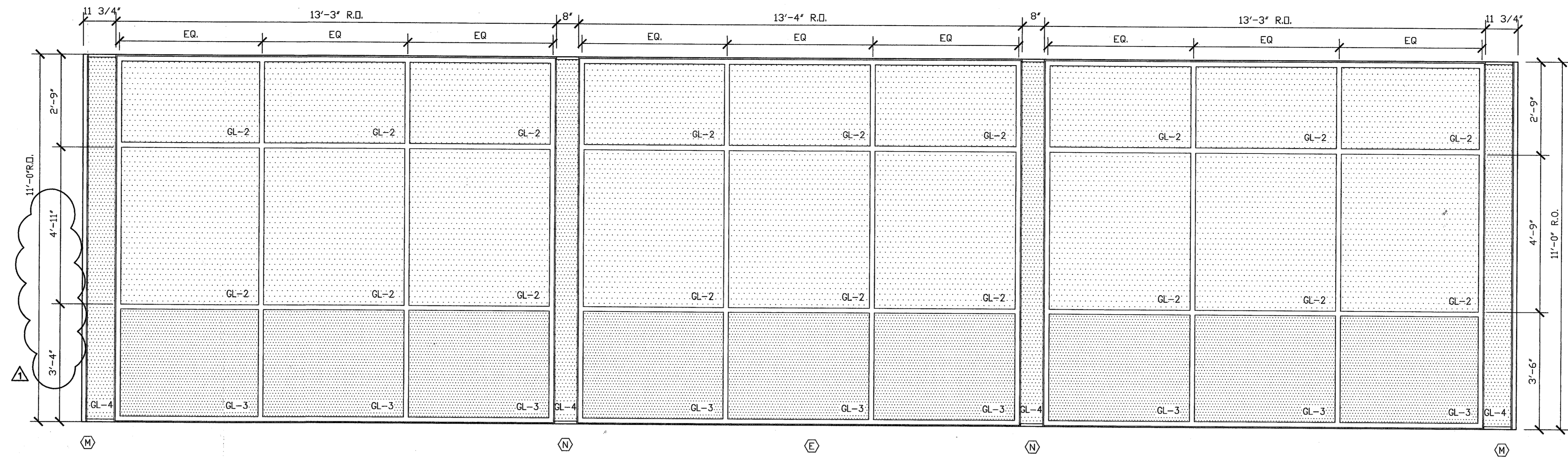
DOOR SCHEDULE									
DOOR NUMBER	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR SIZE	FRAME MATERIAL	FRAME FINISH	FIRE RATING	NOTES	HARDWARE SET
01, 02	A	ALUMINUM & GLASS STOREFRONT	CLR. ANODIZED ALUM. & MILKY GLASS	3'-0" X 7'-0" X 1 3/4"	CLR. ANODIZED ALUM. & MILKY GLASS	ALUMINUM	NONE	TRANSOM ABOVE AND SIDE LITE	1
03	A	ALUMINUM & GLASS STOREFRONT	CLR. ANODIZED ALUM. & MILKY GLASS	3'-9 1/2" X 7'-0" X 1 3/4" VIF	CLR. ANODIZED ALUM. & MILKY GLASS	ALUMINUM	NONE	TRANSOM ABOVE	2
04	A	ALUMINUM & GLASS STOREFRONT	CLR. ANODIZED ALUM. & MILKY GLASS	4'-0 1/8" X 7'-0" X 1 3/4" VIF	CLR. ANODIZED ALUM. & MILKY GLASS	ALUMINUM	NONE	TRANSOM ABOVE	2
05, 06	A	ALUMINUM & GLASS STOREFRONT	CLR. ANODIZED ALUM. & MILKY GLASS	3'-0" X 7'-0" X 1 3/4"	CLR. ANODIZED ALUM. & MILKY GLASS	ALUMINUM	NONE	TRANSOM ABOVE AND SIDE LITE	2
07, 08	B	HOLLOW METAL	PAINTED	3'-0" X 7'-4" X 1 3/4"	HOLLOW METAL	PAINTED	NONE	-	3
09	B	HOLLOW METAL	PAINTED	(2) 3'-0" X 7'-0" X 1 3/4"	HOLLOW METAL	PAINTED	NONE	-	4
10	C	1x2 T.S. FRAME	PAINTED	FIELD MEASURE	STEEL	PAINTED	NONE	-	5
11	D	ALUMINUM & GLASS SLIDING MALL DOOR	CLR. ANODIZED ALUM. & MILKY GLASS	6'-0 3/8" X 8'-8" X 1 3/4" VIF	CLR. ANODIZED ALUM. & MILKY GLASS	ALUMINUM	NONE	SLIDING POCKET DOOR	6
12	D	ALUMINUM & GLASS SLIDING MALL DOOR	CLR. ANODIZED ALUM. & MILKY GLASS	6'-4 3/8" X 8'-8" X 1 3/4" VIF	CLR. ANODIZED ALUM. & MILKY GLASS	ALUMINUM	NONE	SLIDING POCKET DOOR	6



issue	date
DD	08/26/02
50% CD	11/05/02
100% CD	01/23/03
ADDENDUM 1	01/31/03
POST-BID REVISION	03/04/03



Issue	DD	50% CD	100% CD	POST-BID REVISION
08/28/02	11/05/02	01/23/03	03/04/03	Δ



NOTE:  
 ALL DIMENSIONS TO BE VERIFIED IN FIELD

- ALUM. CHANNEL TO MATCH STOREFRONT, TYP.
- 3/8" SILICONE, TYP.
- 1-1/2" X 1-1/2" X 3/8" ALUM. ANGLE, TYP.
- 1 LAYER 1" THK RIGID INSUL. BETWEEN BUTT-GLAZED GLASS & COLUMN BEHIND, TYP. REF. ARCH DTLs
- 3 LAYERS 1" THK RIGID INSUL. BEHIND GLASS OF STOREFRONT SYSTEM IN BOTTOM LITE ONLY, EXCEPT WHERE NOTED
- ALUMINUM CHANNEL TO MATCH STOREFRONT, TYP.

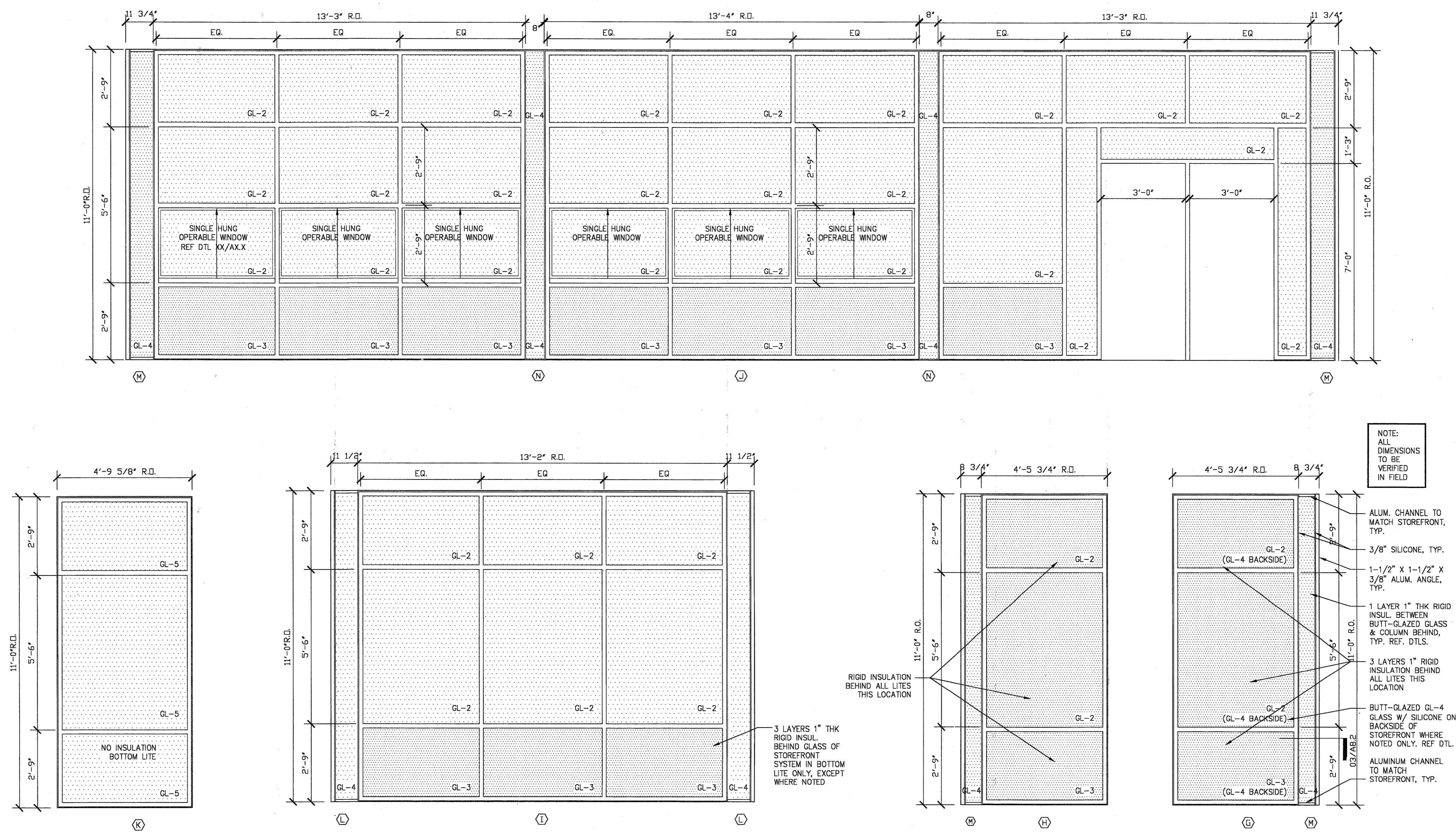


**Addison Arts and  
Events Pavilion**  
4970 Addison Circle Drive  
Addison, Texas

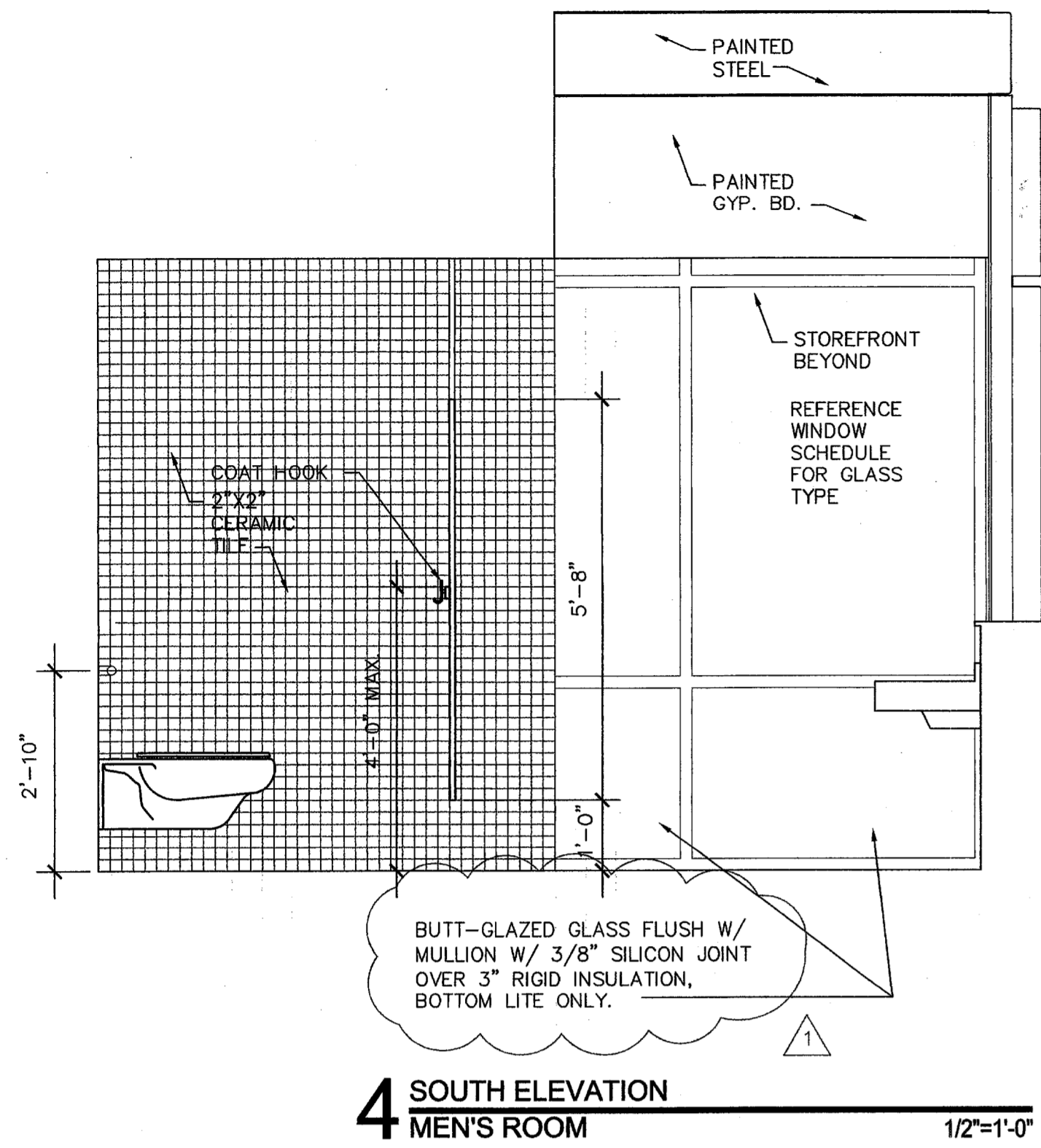
date  
08/25/02  
11/05/02  
01/25/03

issue  
DD CD  
50% CD  
100% CD

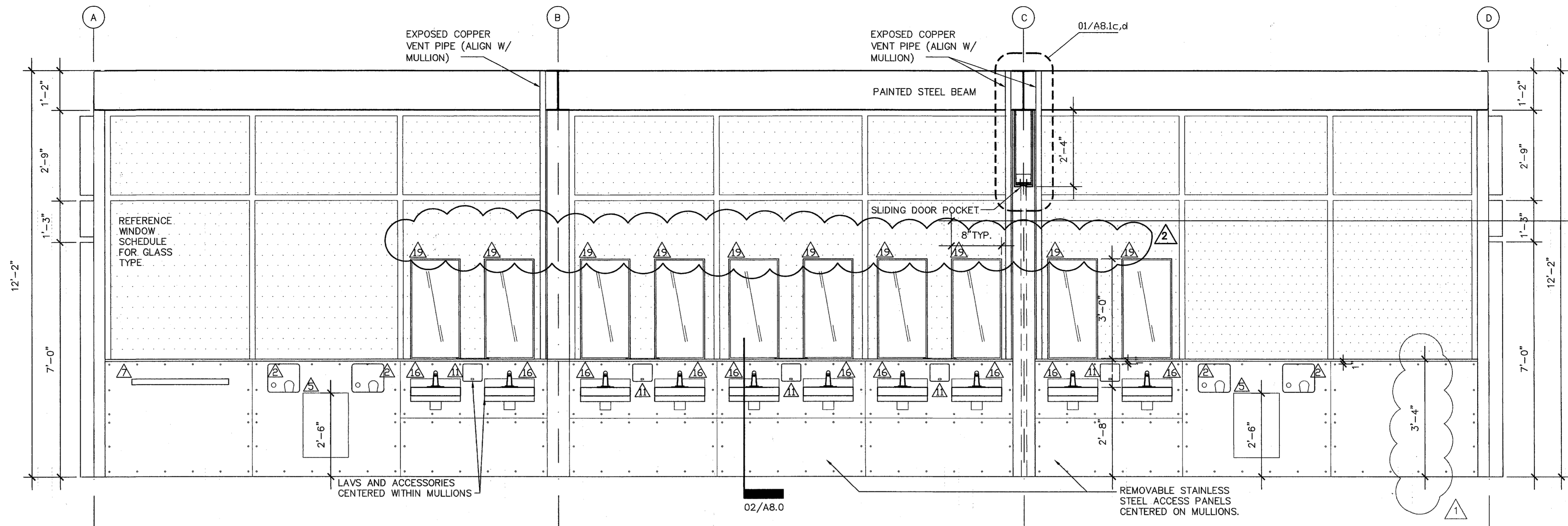
**A6.2**  
WINDOW  
TYPES



1-27-03

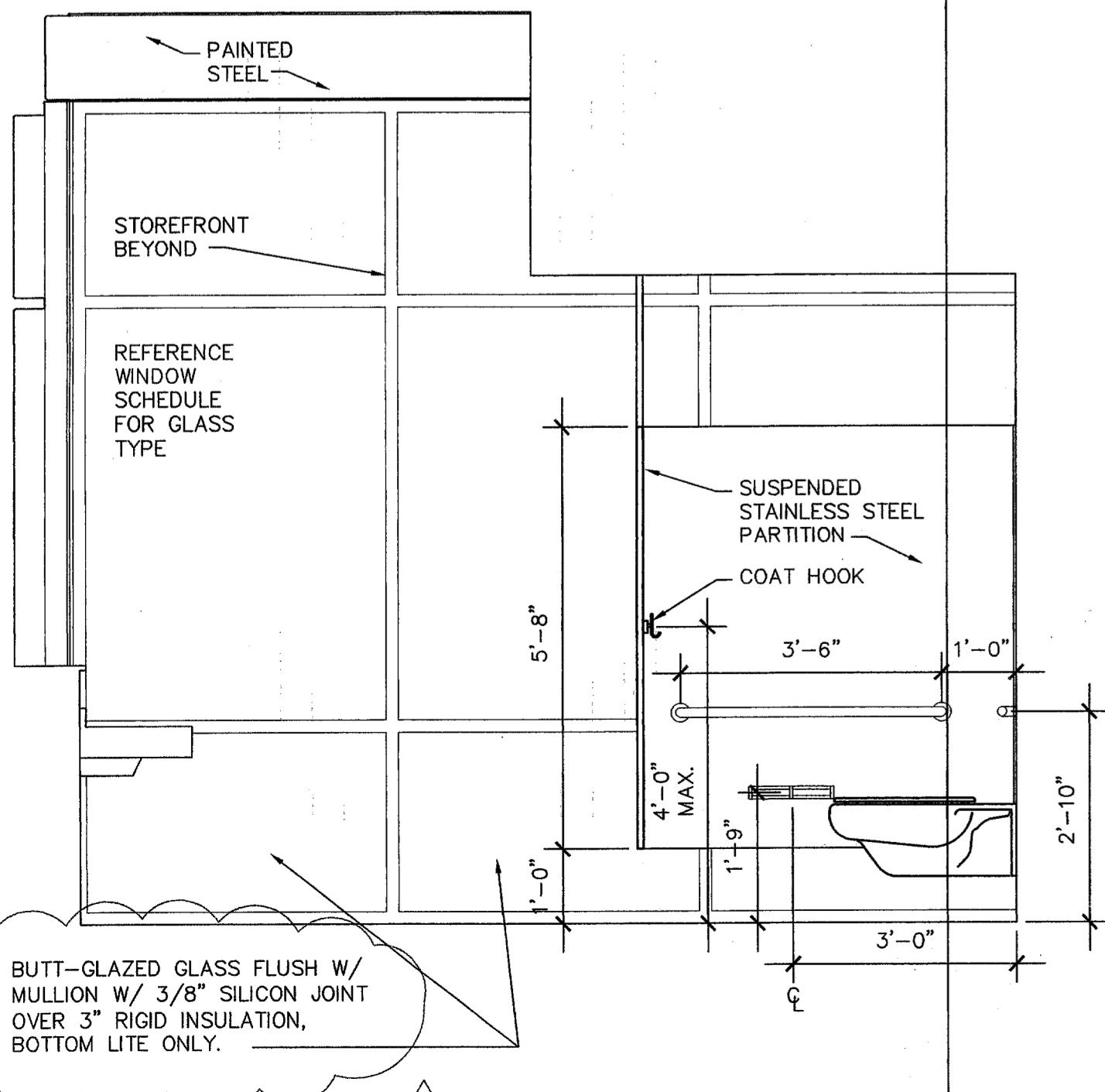


**4 SOUTH ELEVATION**  
MEN'S ROOM 1/2"=1'-0"

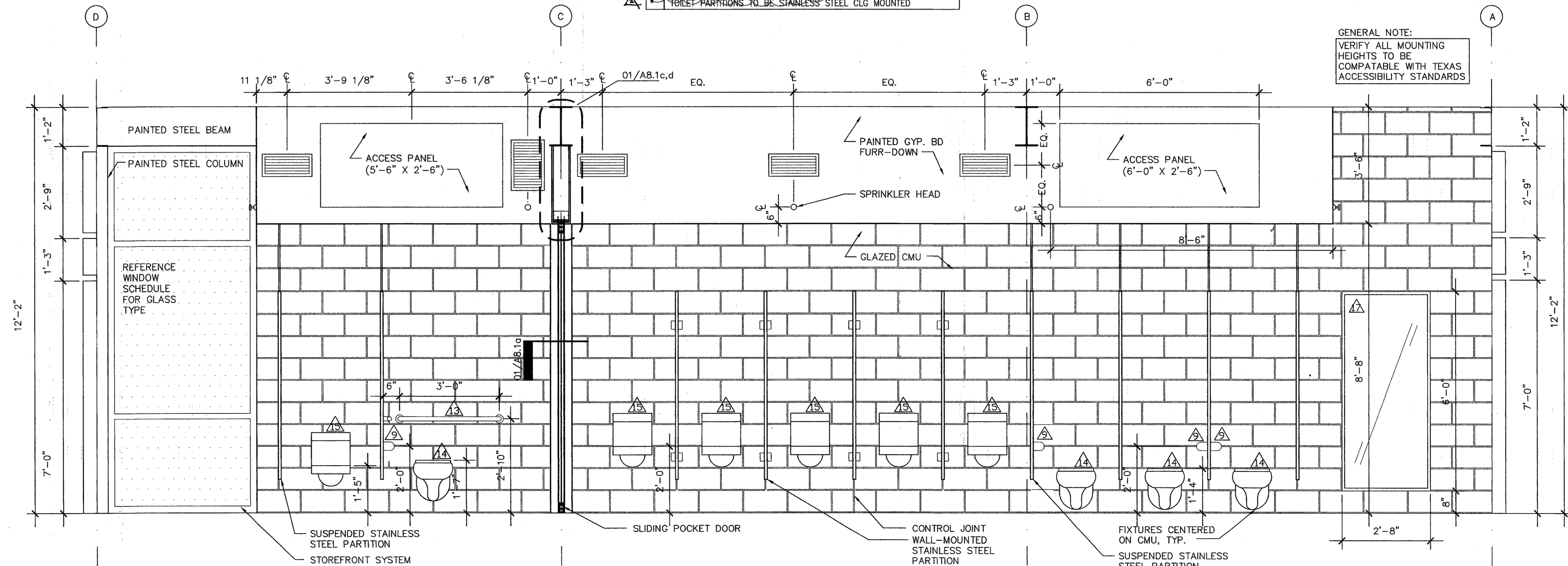


**3 WEST ELEVATION**  
MEN'S ROOM 1/2"=1'-0"

TOILET AND BATH ACCESSORY SCHEDULE	
NO.	DESCRIPTION
1	NOT USED
2	WARM AIR DRYER
3	MIRROR/SHELF COMBINATION UNIT
4	LIQUID SOAP DISPENSER (WOMEN)
5	WASTE RECEPTACLE, SURFACE MOUNTED
6	SANITARY NAPKIN/TAMPON VENDOR
7	DIAPER CHANGING STATION
8	SANITARY NAPKIN/TAMPON DISPOSAL UNIT
9	TOILET TISSUE DISPENSER
10	NOT USED
11	LIQUID SOAP DISPENSER (MEN)
12	NOT USED
13	GRAB BAR
14	WALL MOUNTED TOILET - REF. PLUMBING SCHEDULE
15	WALL MOUNTED URINAL - REF. PLUMBING SCHEDULE
16	WALL MOUNTED VANITY SINK - REF. PLUMBING SCHEDULE
17	MIRROR
18	COAT-HOOK
19	STAINLESS STEEL MIRROR 8" WIDE
20	TOILET PARTITIONS TO BE STAINLESS STEEL CLG MOUNTED

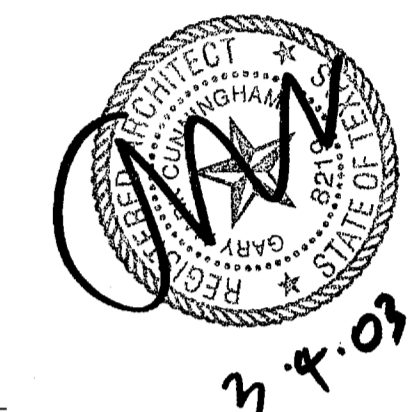


**2 NORTH ELEVATION**  
MEN'S ROOM 1/2"=1'-0"



**1 EAST ELEVATION**  
MEN'S ROOM 1/2"=1'-0"

**cunningham architects**  
918 Oregon Street  
Dallas, Texas 75207  
V 214.915.0900  
F 214.915.0901

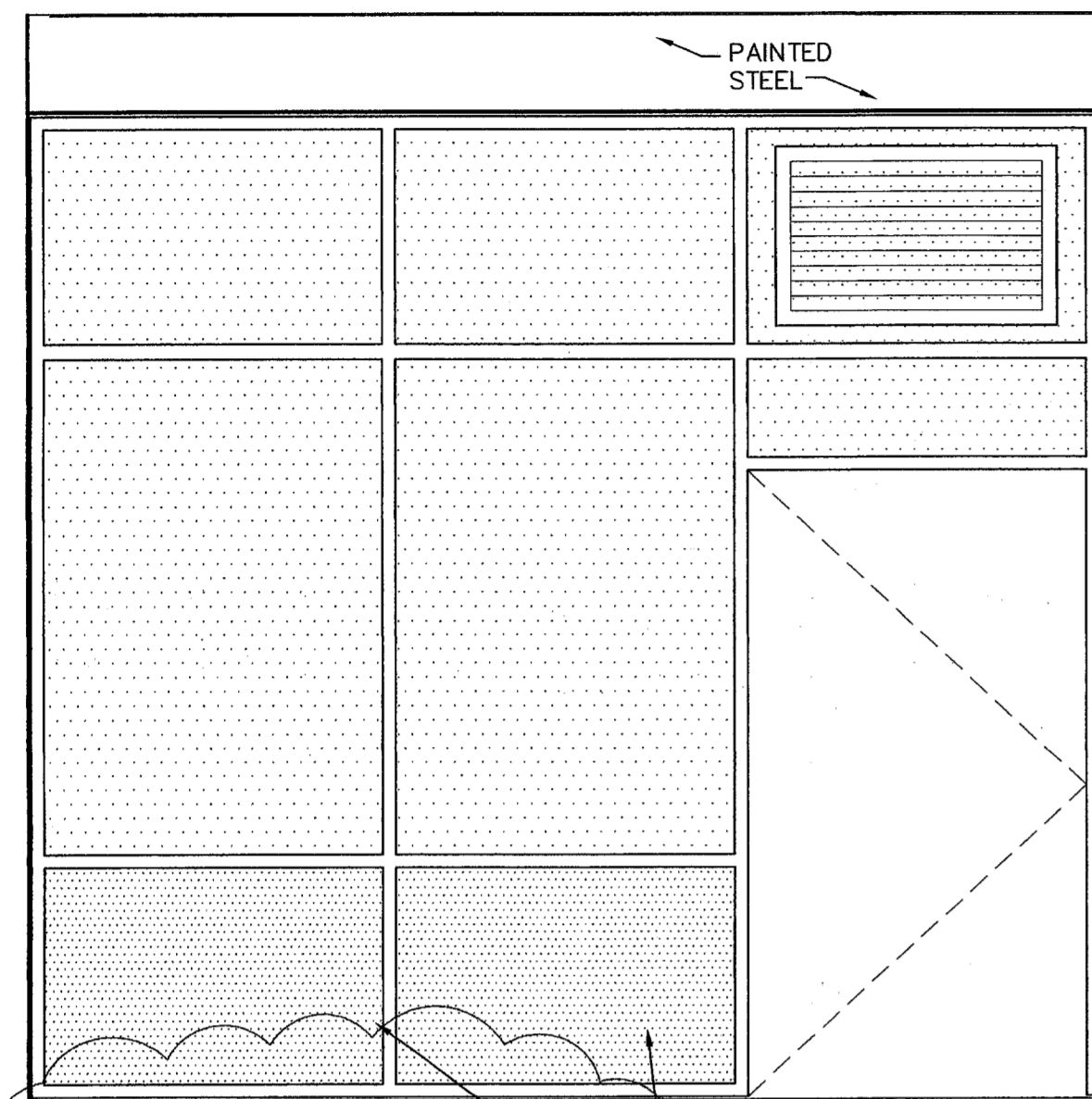


**Addison Arts and Events Pavilion**  
4970 Addison Circle Drive  
Addison, Texas

Issue: DD 08/26/02  
50% CD 11/05/02  
100% CD 01/23/03  
ADDENDUM1 01/31/03  
ADDENDUM2 02/06/03

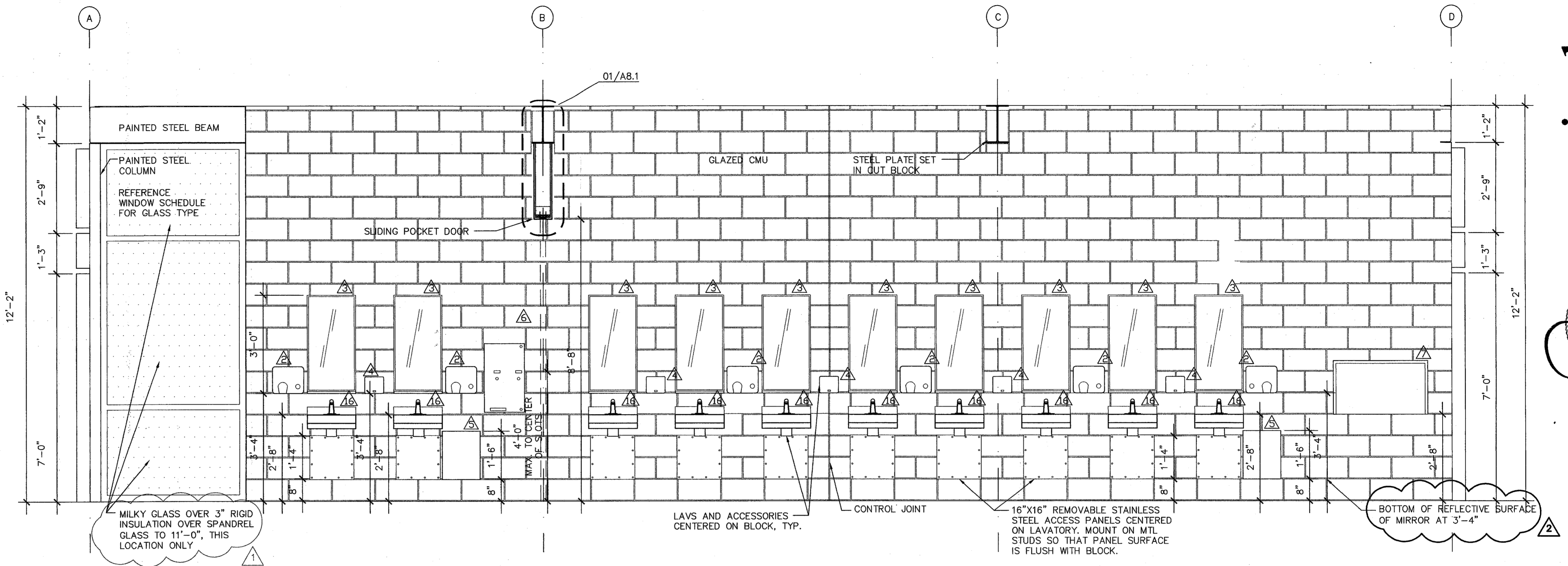
**A7.0**  
INTERIOR ELEVATIONS:  
MEN'S RM





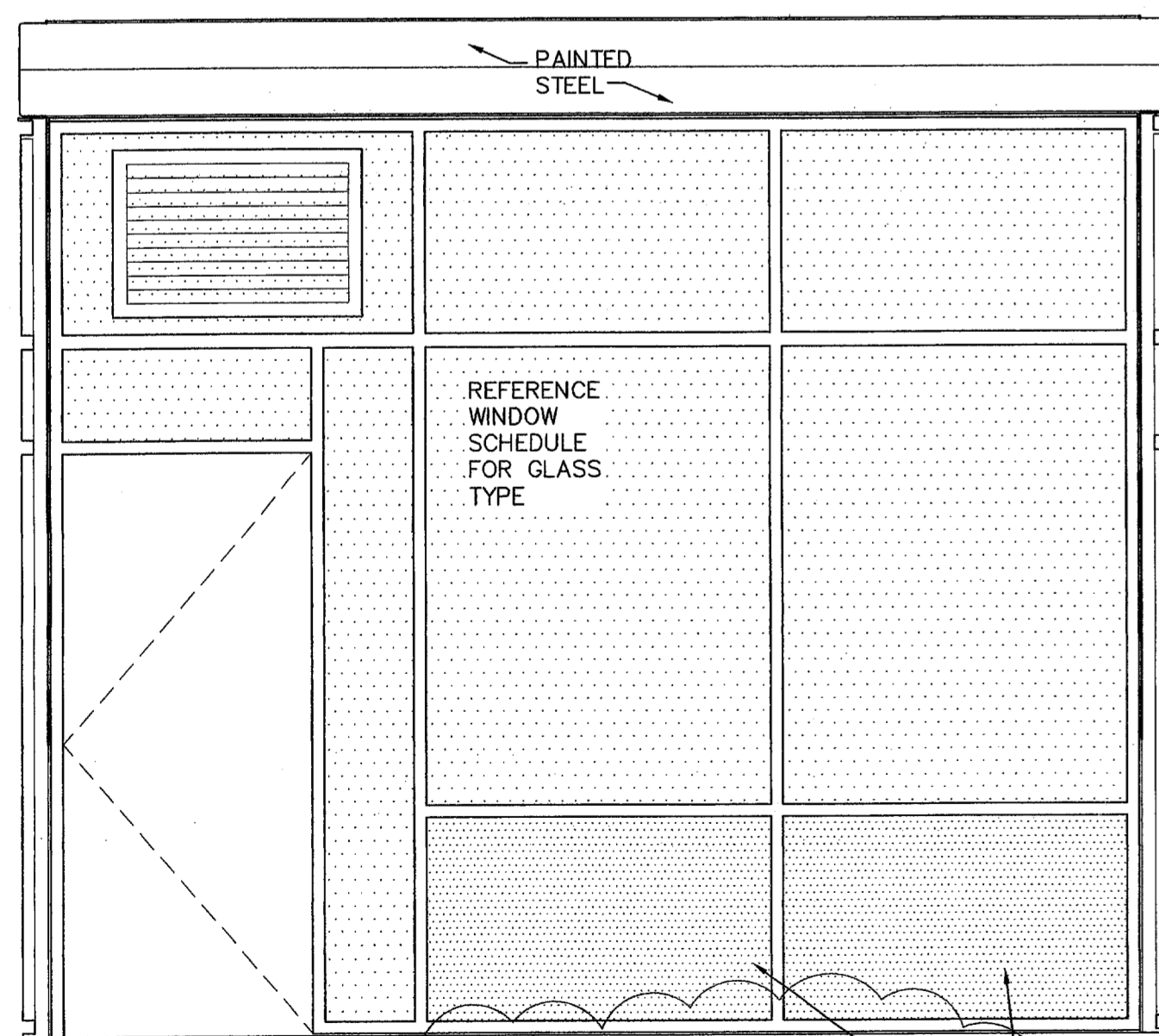
**4 SOUTH ELEVATION**  
WOMEN'S ROOM

1/2"=1'-0"



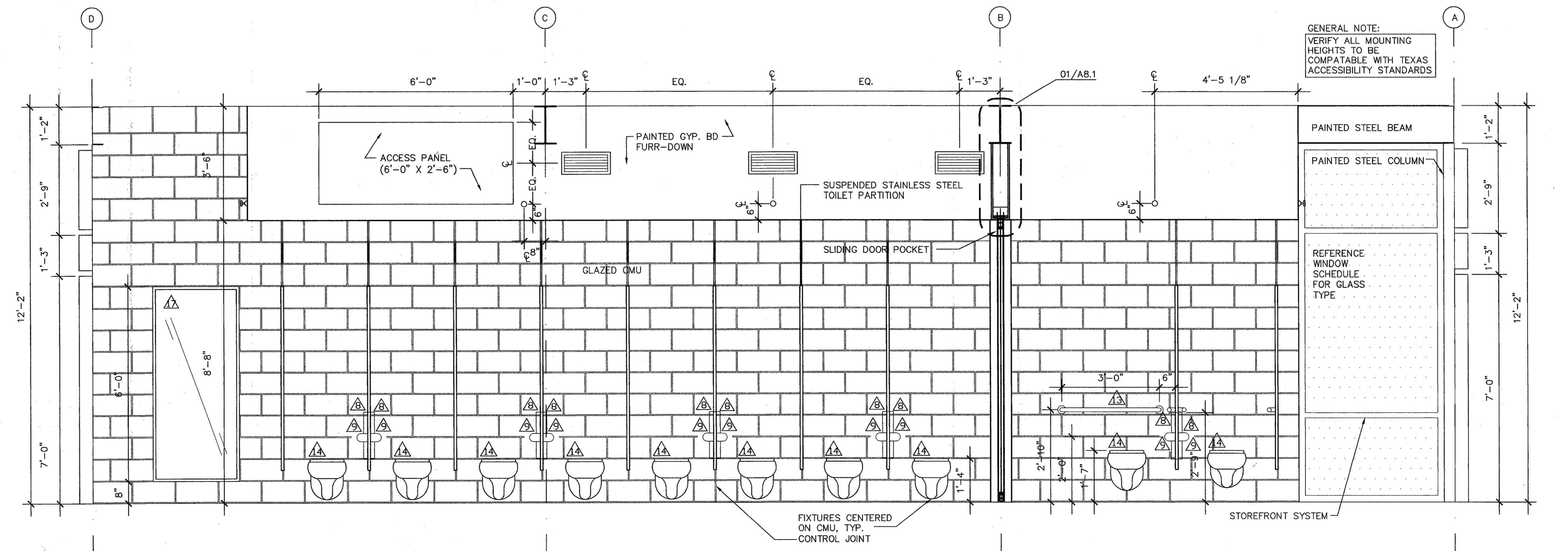
**2 EAST ELEVATION**  
WOMEN'S ROOM

1/2"=1'-0"



**3 NORTH ELEVATION**  
WOMEN'S ROOM

1/2"=1'-0"

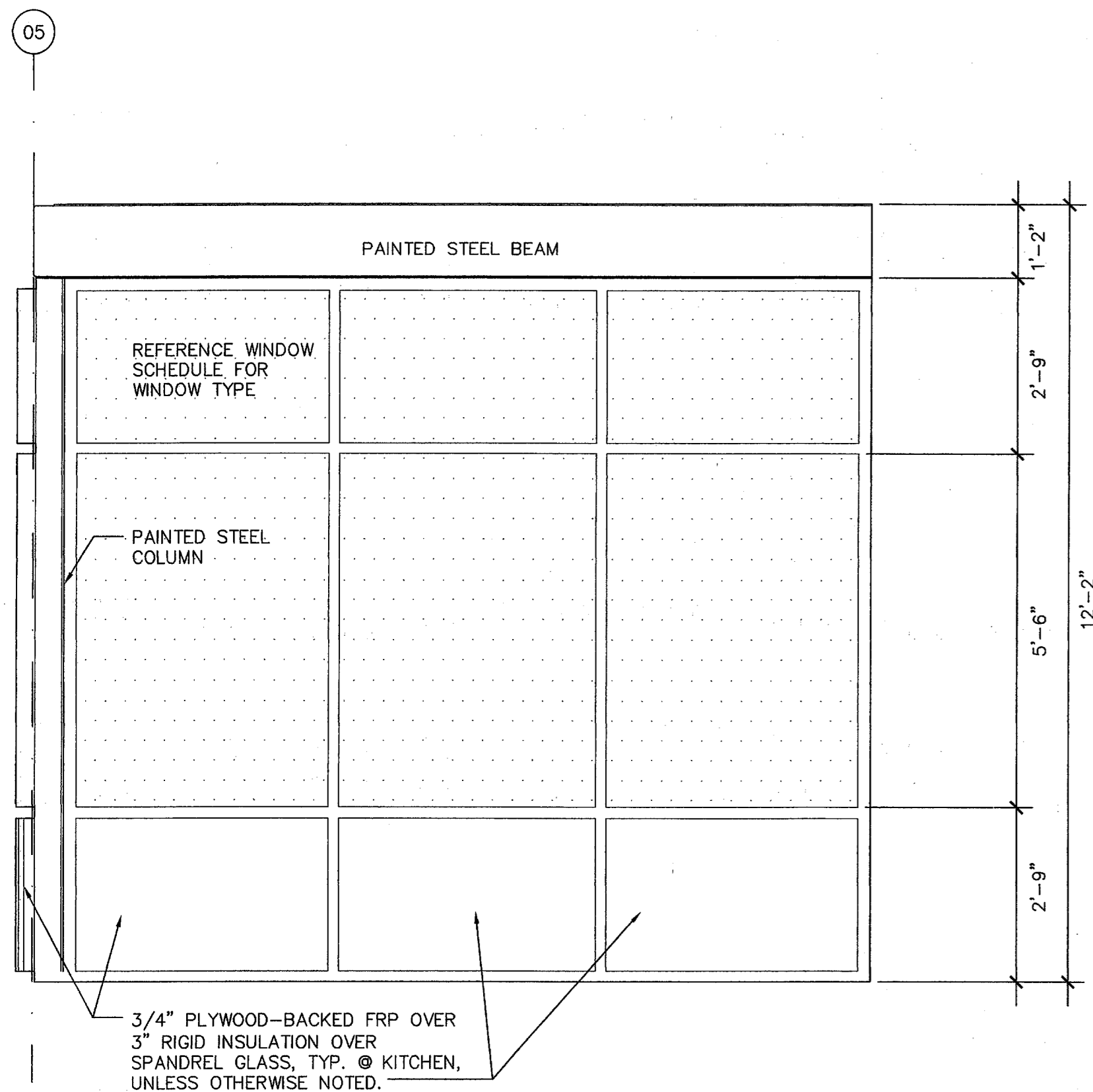


**1 WEST ELEVATION**  
WOMEN'S ROOM

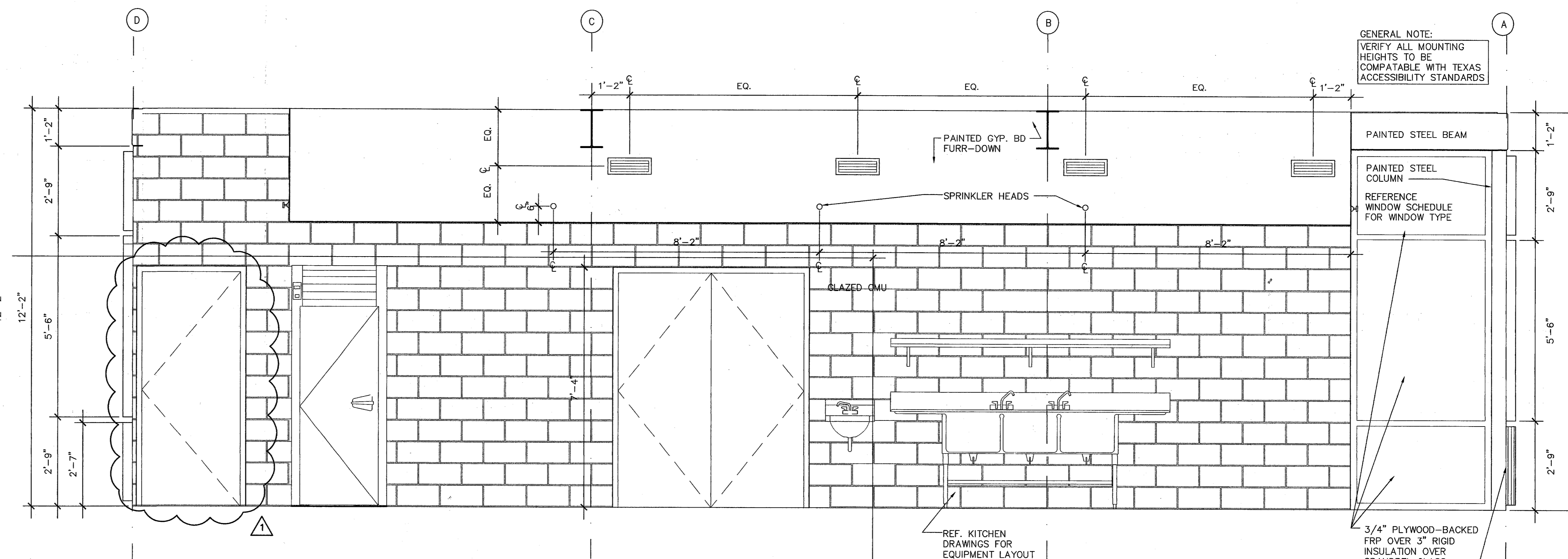
1/2"=1'-0"



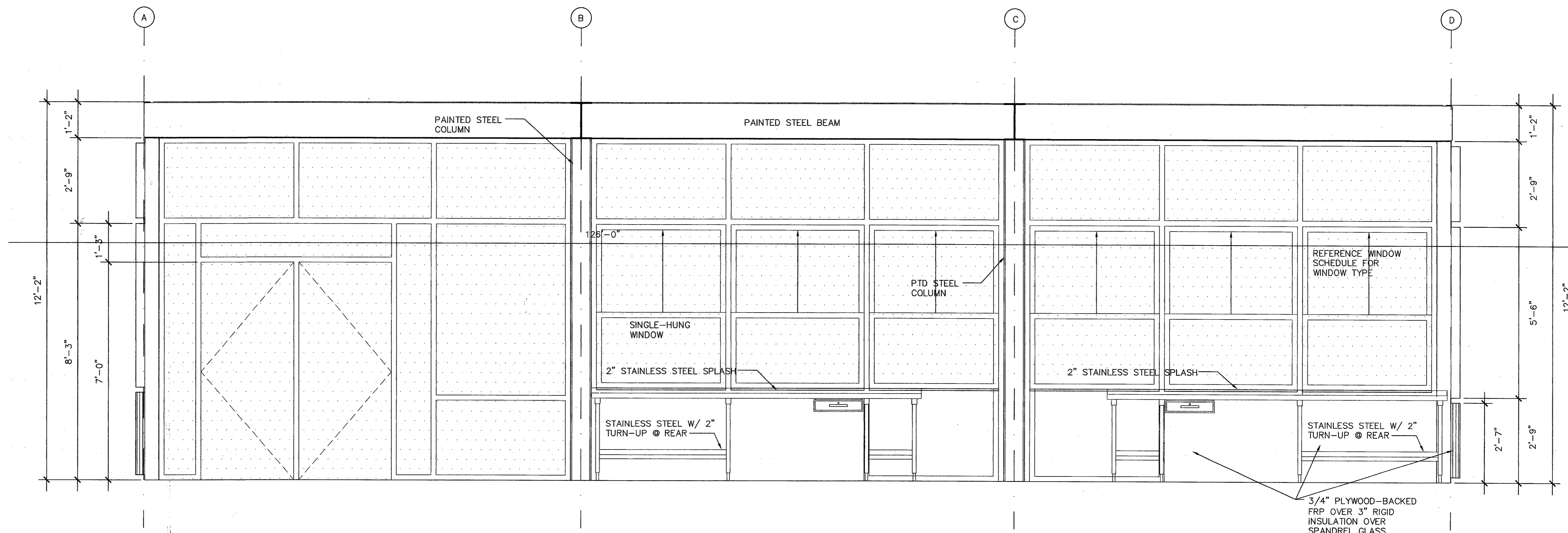
issue	date
08/06/02	
11/05/03	
100% CD	
ADDENDUM 1	01/31/03
POST-BID REVISION	03/04/03



**3 SOUTH ELEVATION**  
KITCHEN  
1/2"=1'-0"



**2 WEST ELEVATION**  
KITCHEN  
1/2"=1'-0"



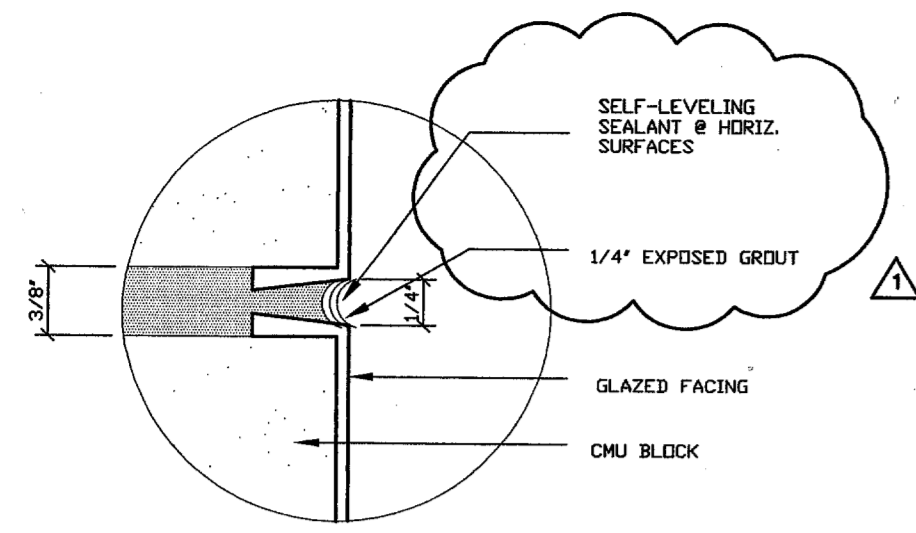
**1 EAST ELEVATION**  
KITCHEN  
1/2"=1'-0"

GENERAL NOTE:  
VERIFY ALL MOUNTING  
HEIGHTS TO BE  
COMPATIBLE WITH TEXAS  
ACCESSIBILITY STANDARDS

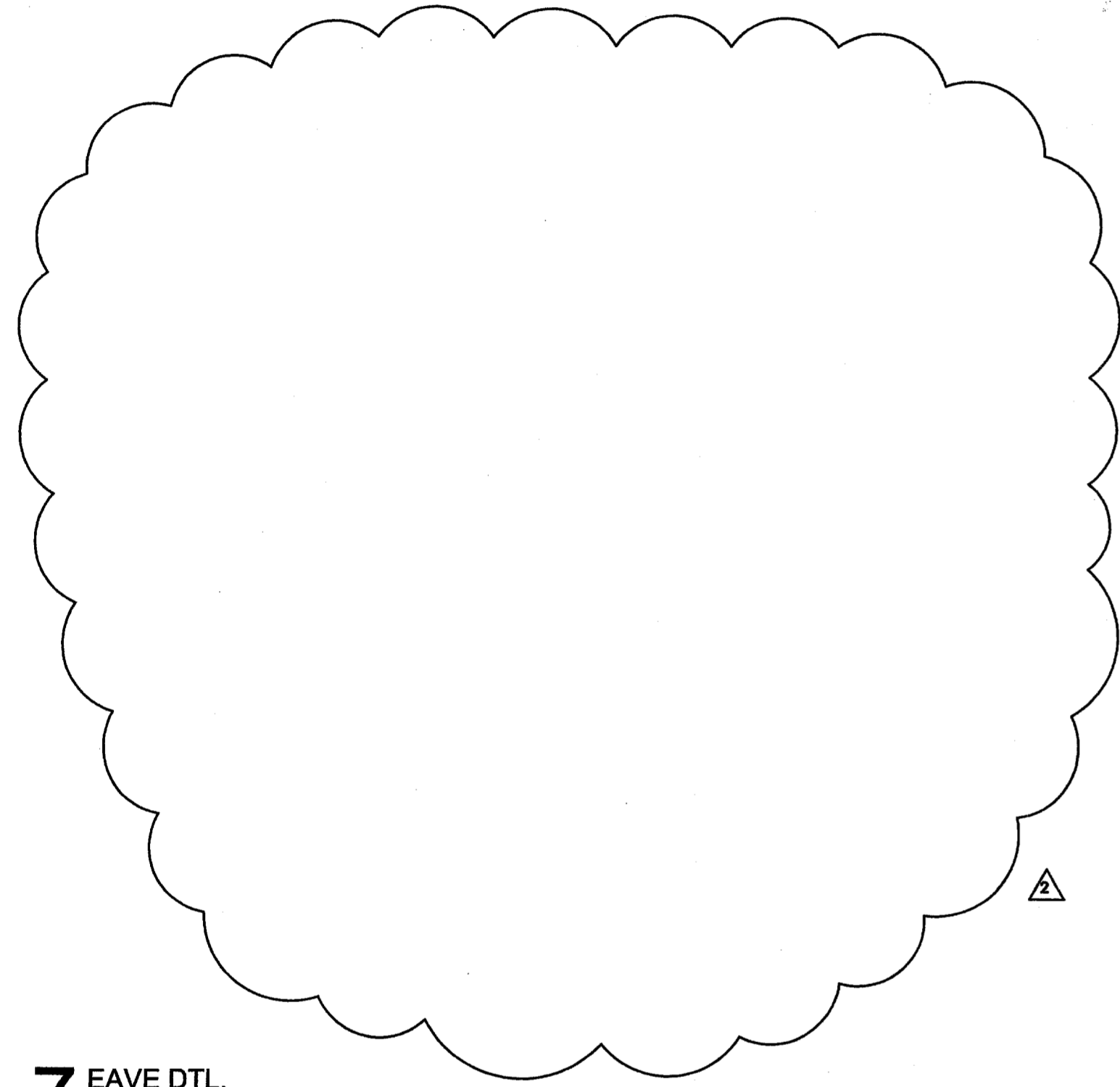
ISSUE	DATE	DESCRIPTION
DD	08/28/02	50% CD
CD	11/05/02	100% CD
CD	01/23/03	POST-BID REVISION
CD	03/04/03	REVISION



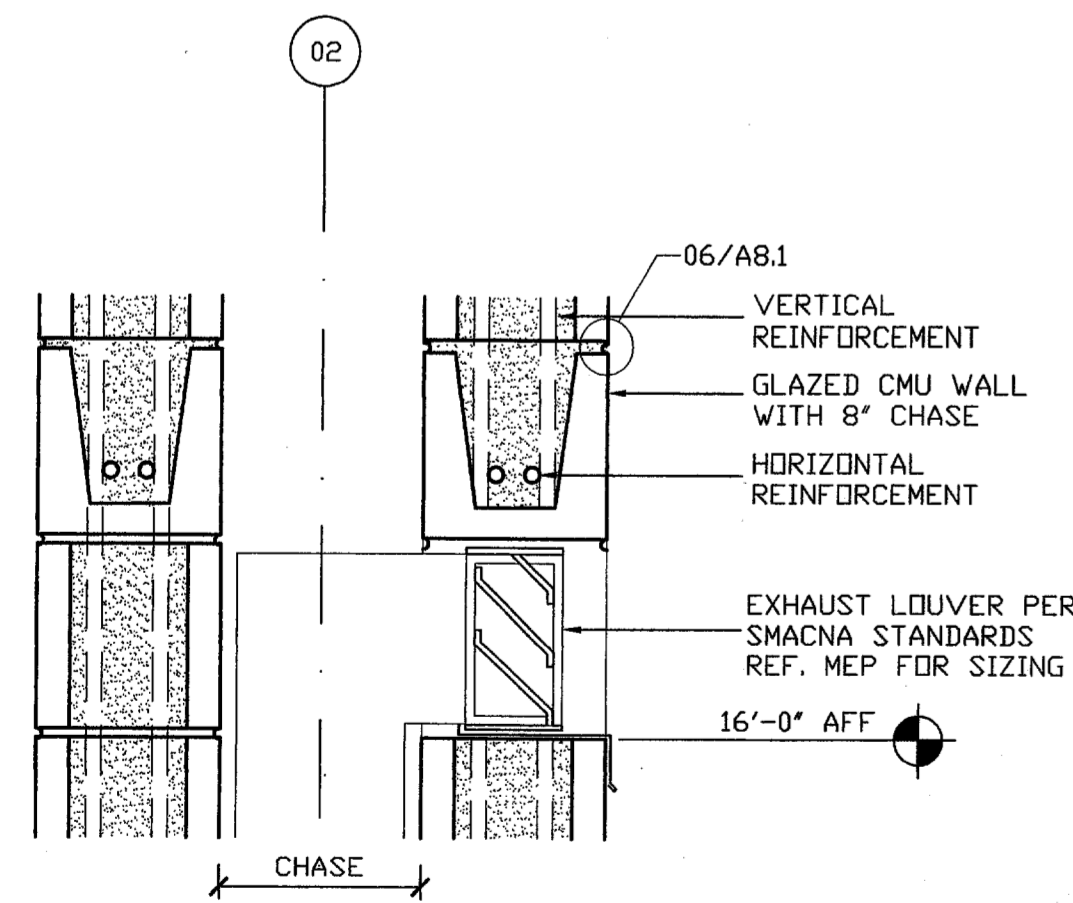




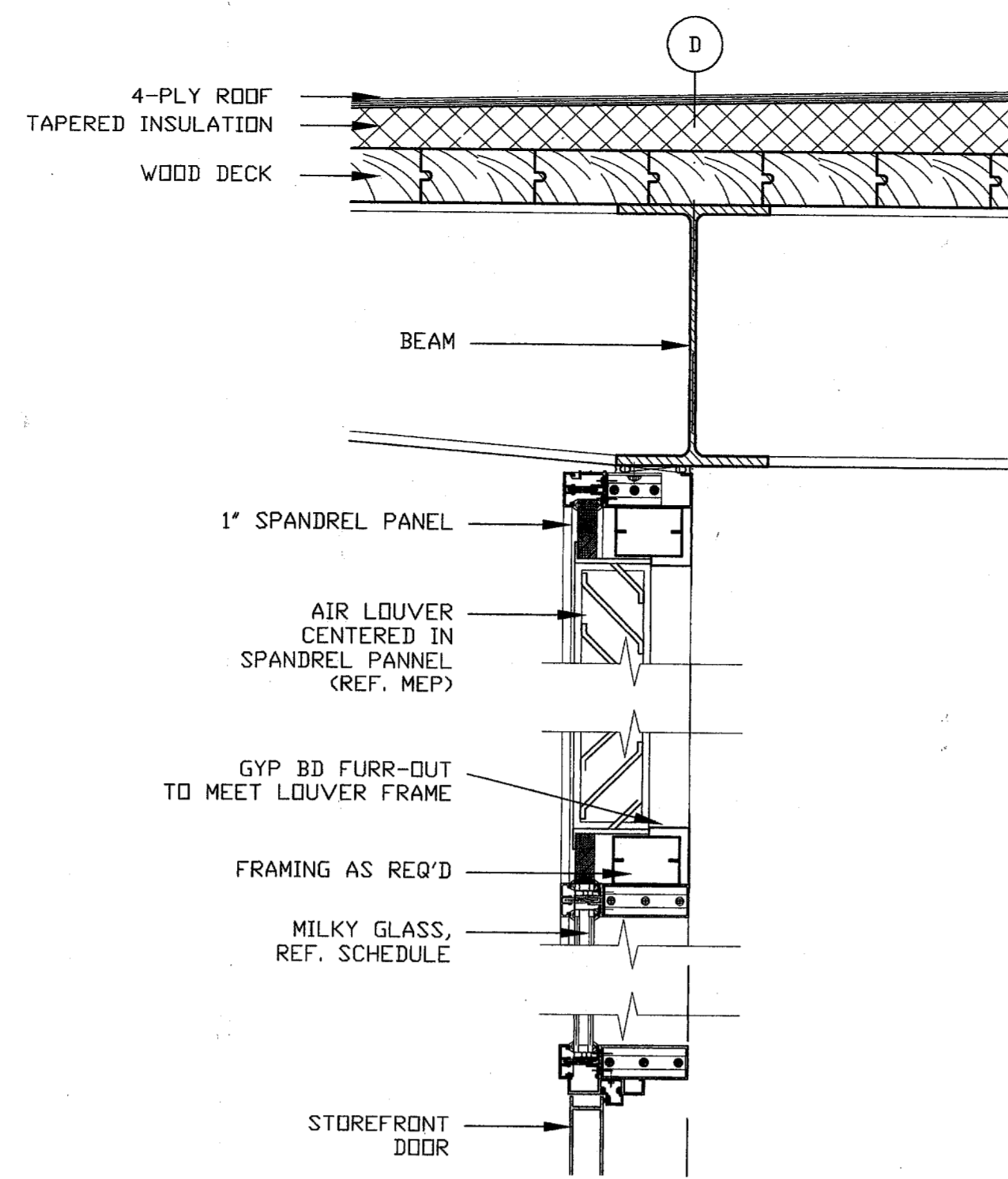
**6 CMU JOINT DTL. DETAILS**  
FULL SCALE



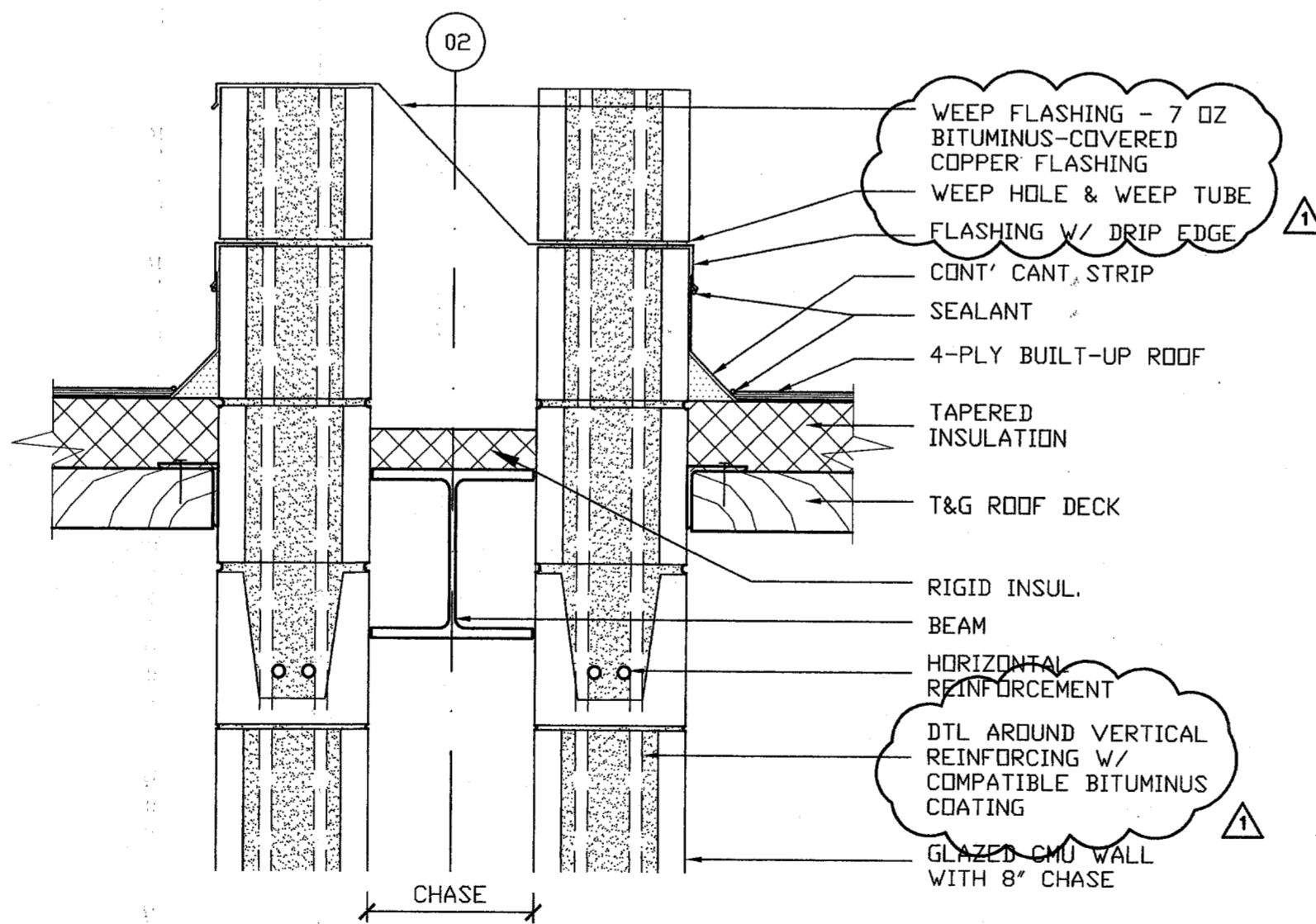
**7 EAVE DTL. DETAILS**  
1-1/2"=1'-0"



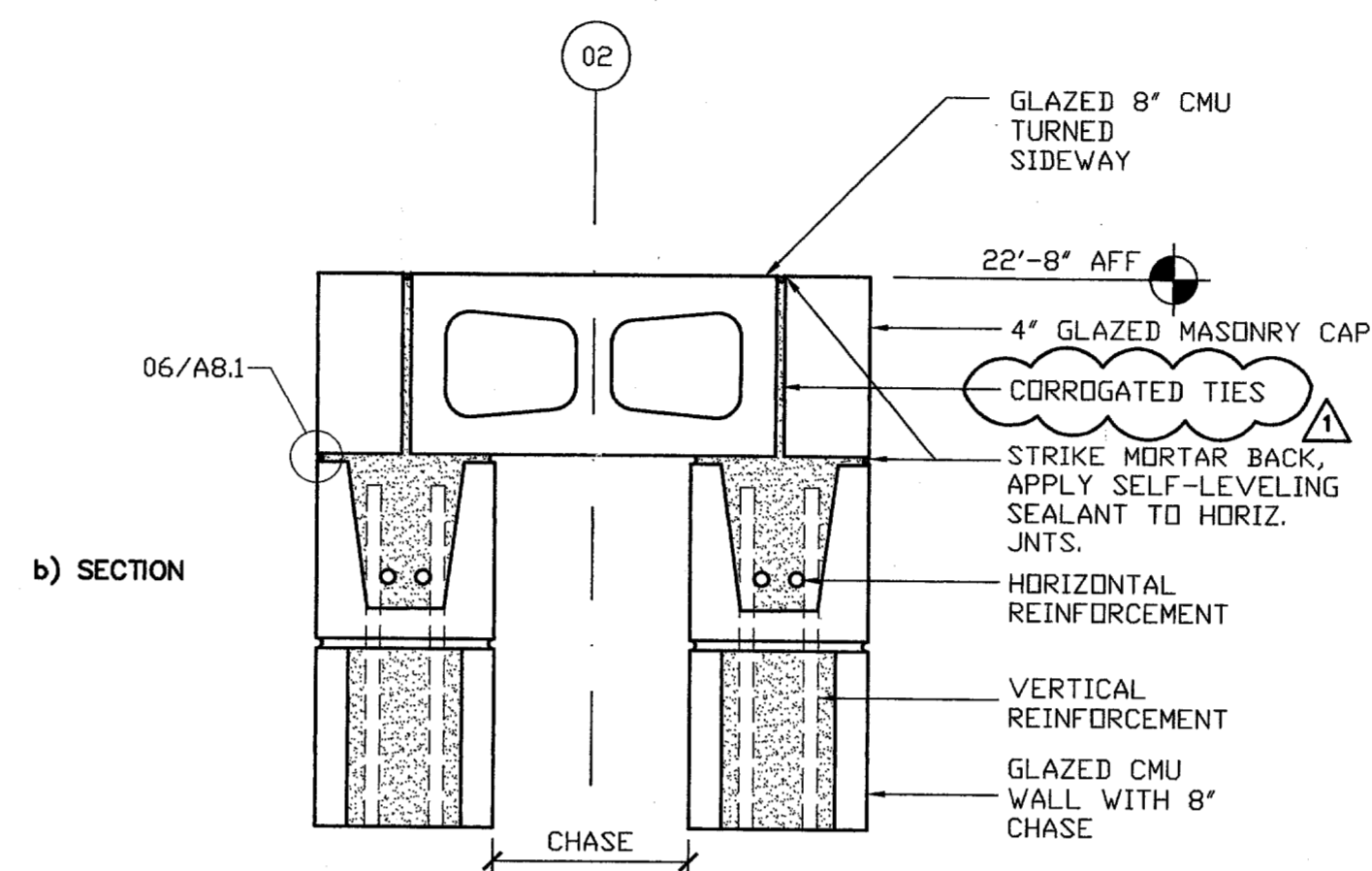
**3 CMU WALL LOUVER DETAIL**  
1-1/2"=1'-0"



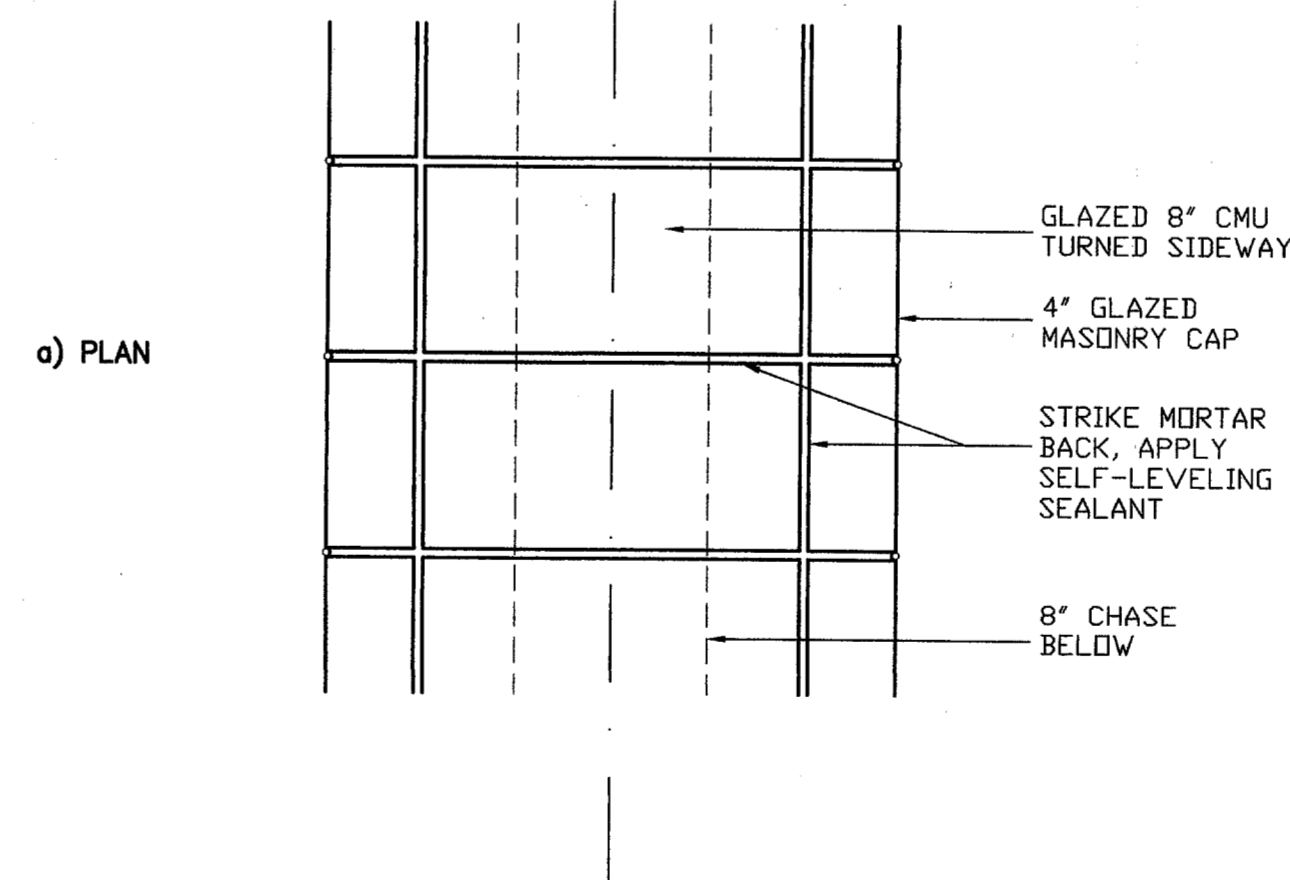
**5 SPANDREL DTL. @ LOUVER DETAILS**  
1-1/2"=1'-0"



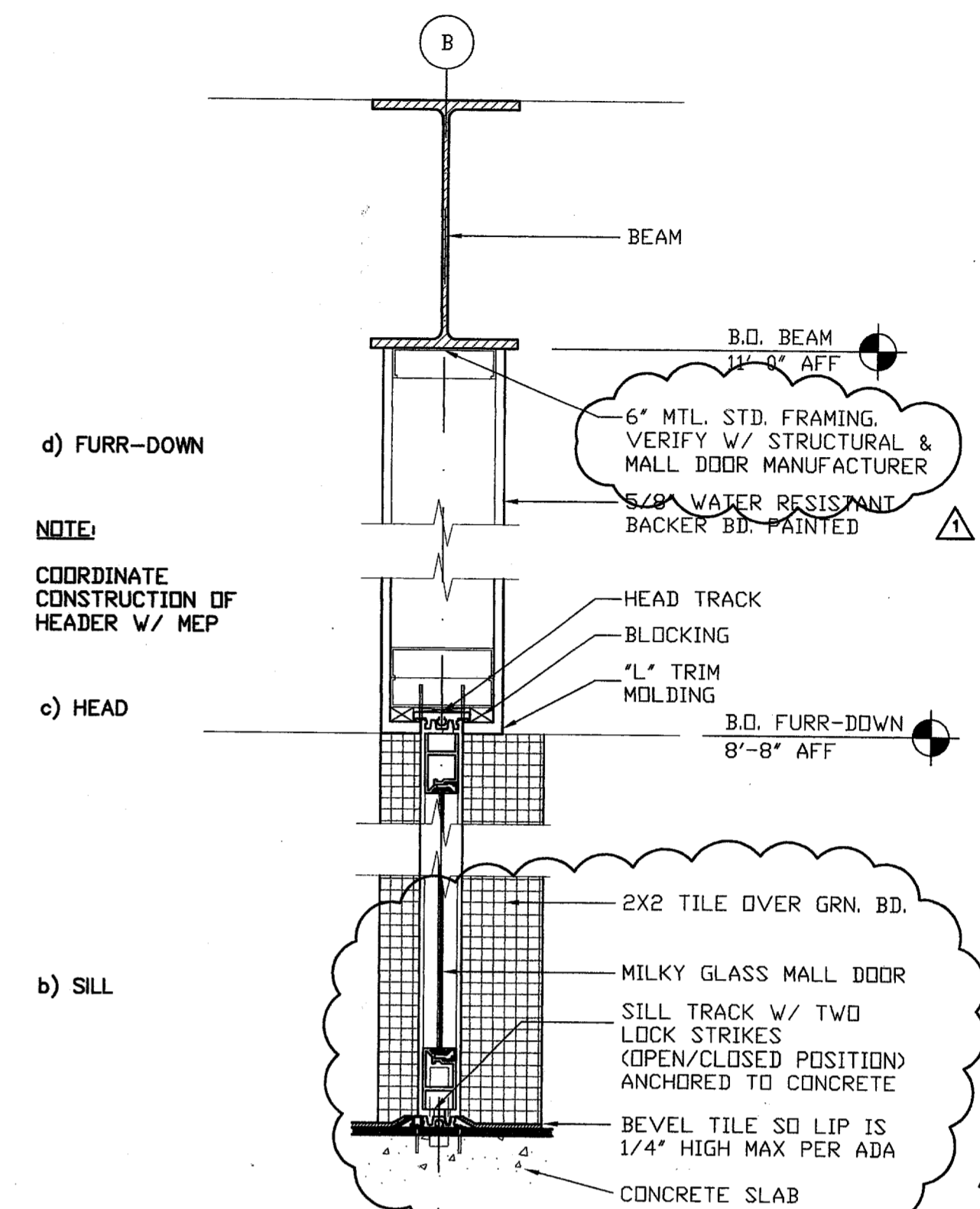
**4 CMU WALL @ ROOF DETAIL**  
1-1/2"=1'-0"



**2 CMU WALL CAP DETAIL**  
1-1/2"=1'-0"



**1 SLIDING DOOR @ RESTROOMS DETAILS**  
1-1/2"=1'-0"



d) FURR-DOWN

NOTE:  
COORDINATE CONSTRUCTION OF HEADER W/ MEP

c) HEAD

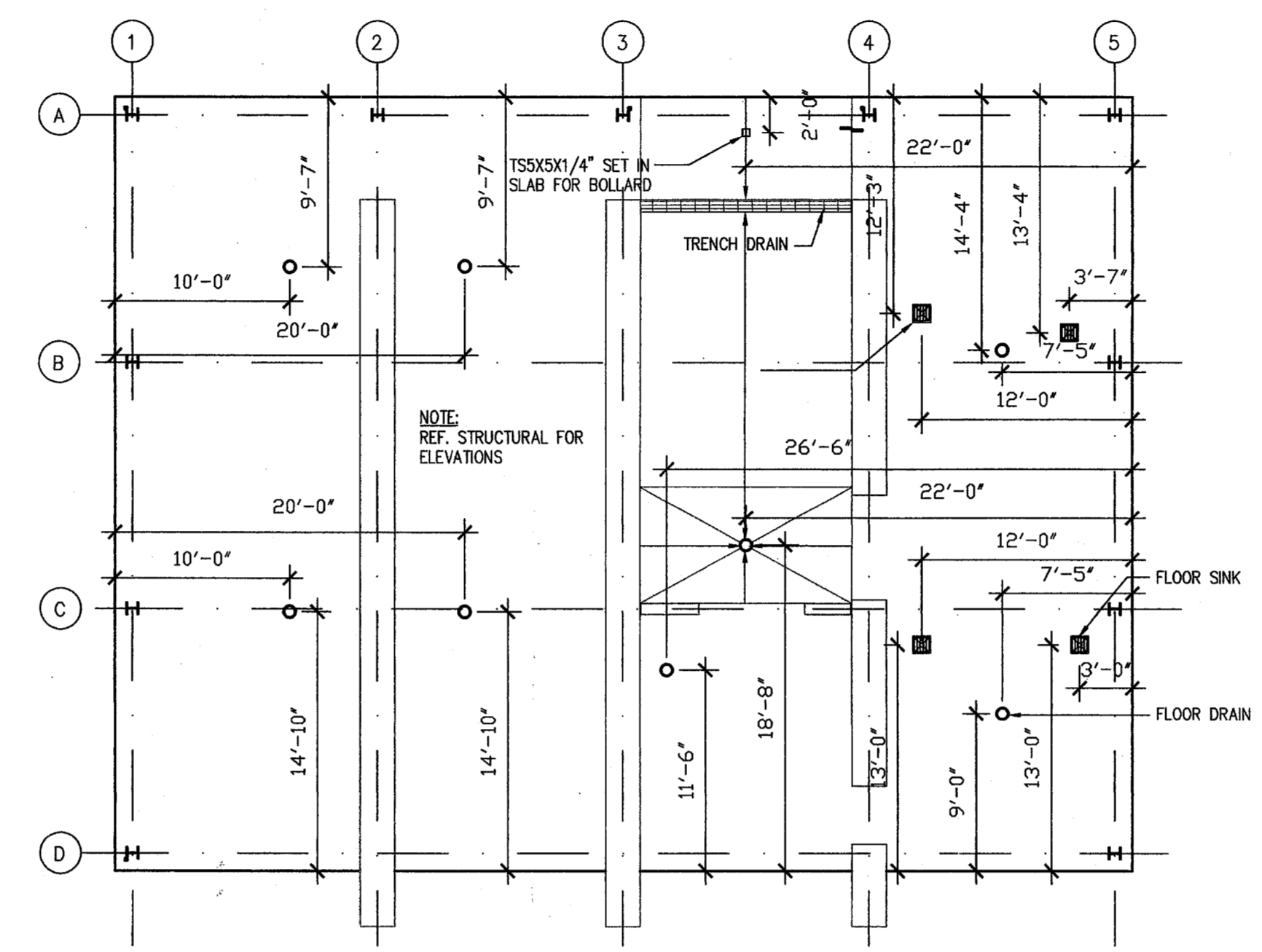
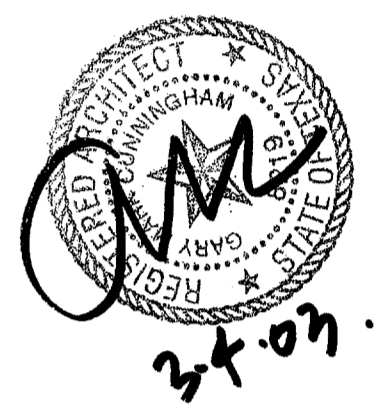
b) SILL

a) JAMB

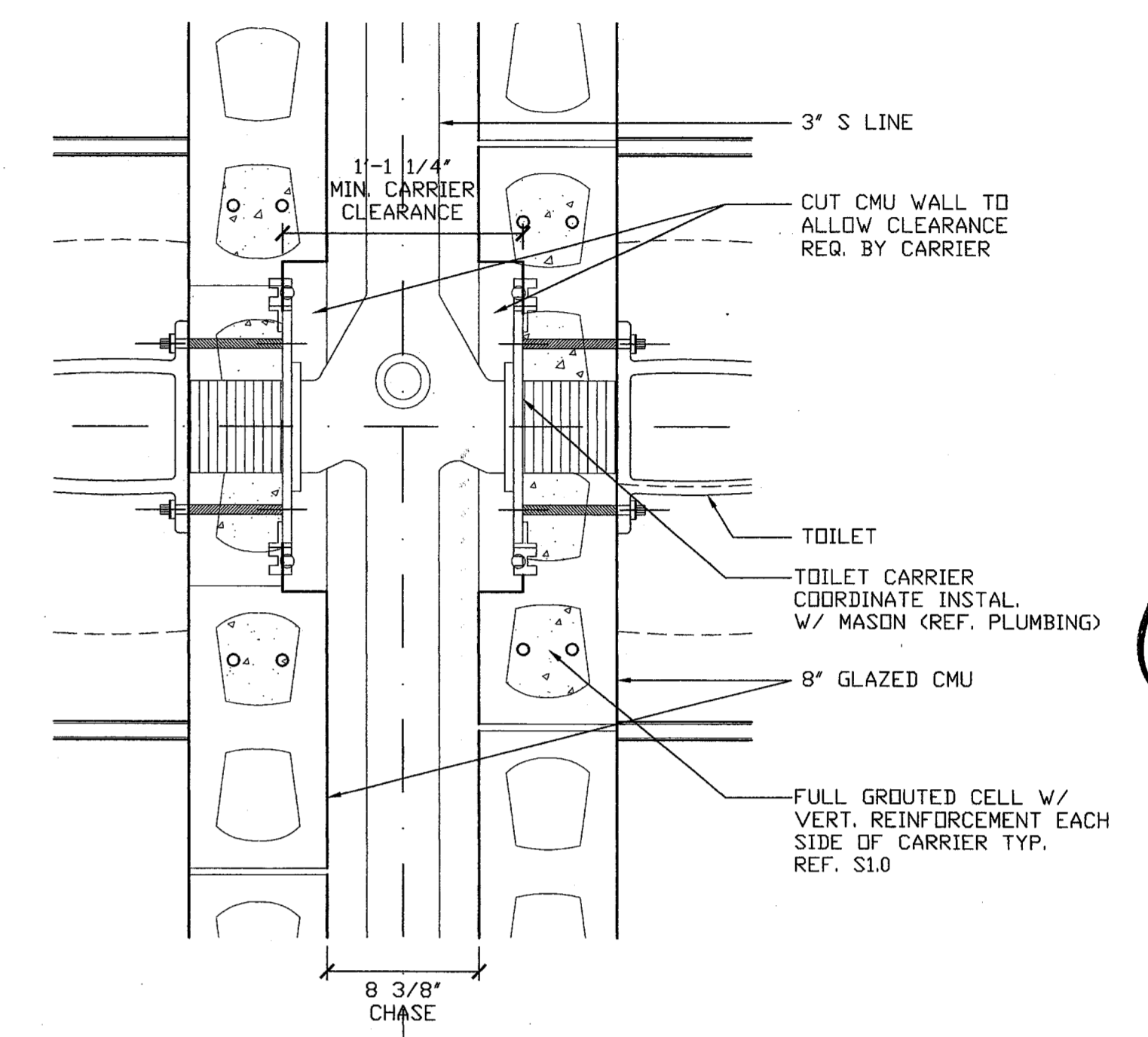


issue	date
DD	08/26/02
50% CD	11/05/02
100% CD	01/23/03
POST-BID REVISION	03/04/03

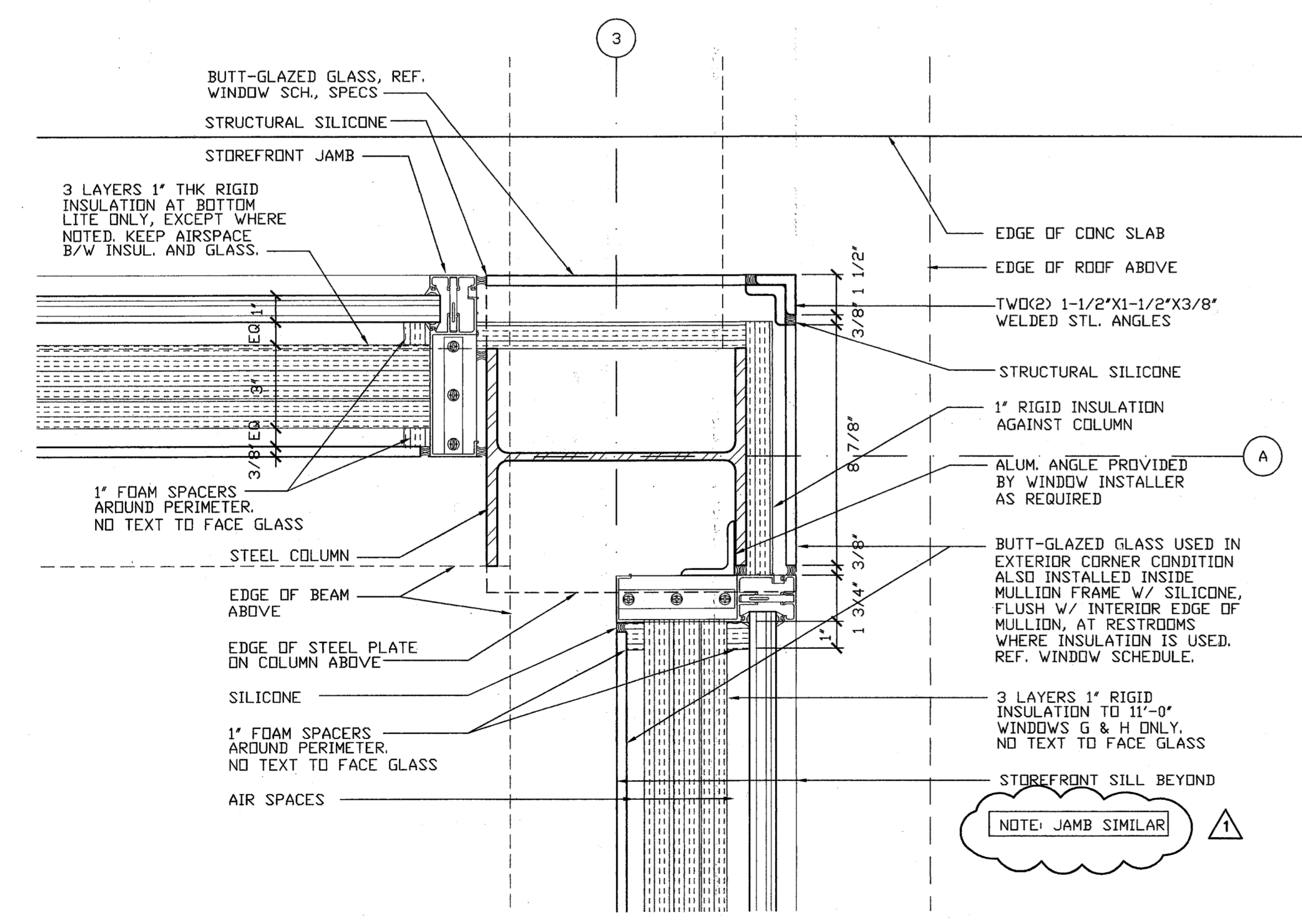




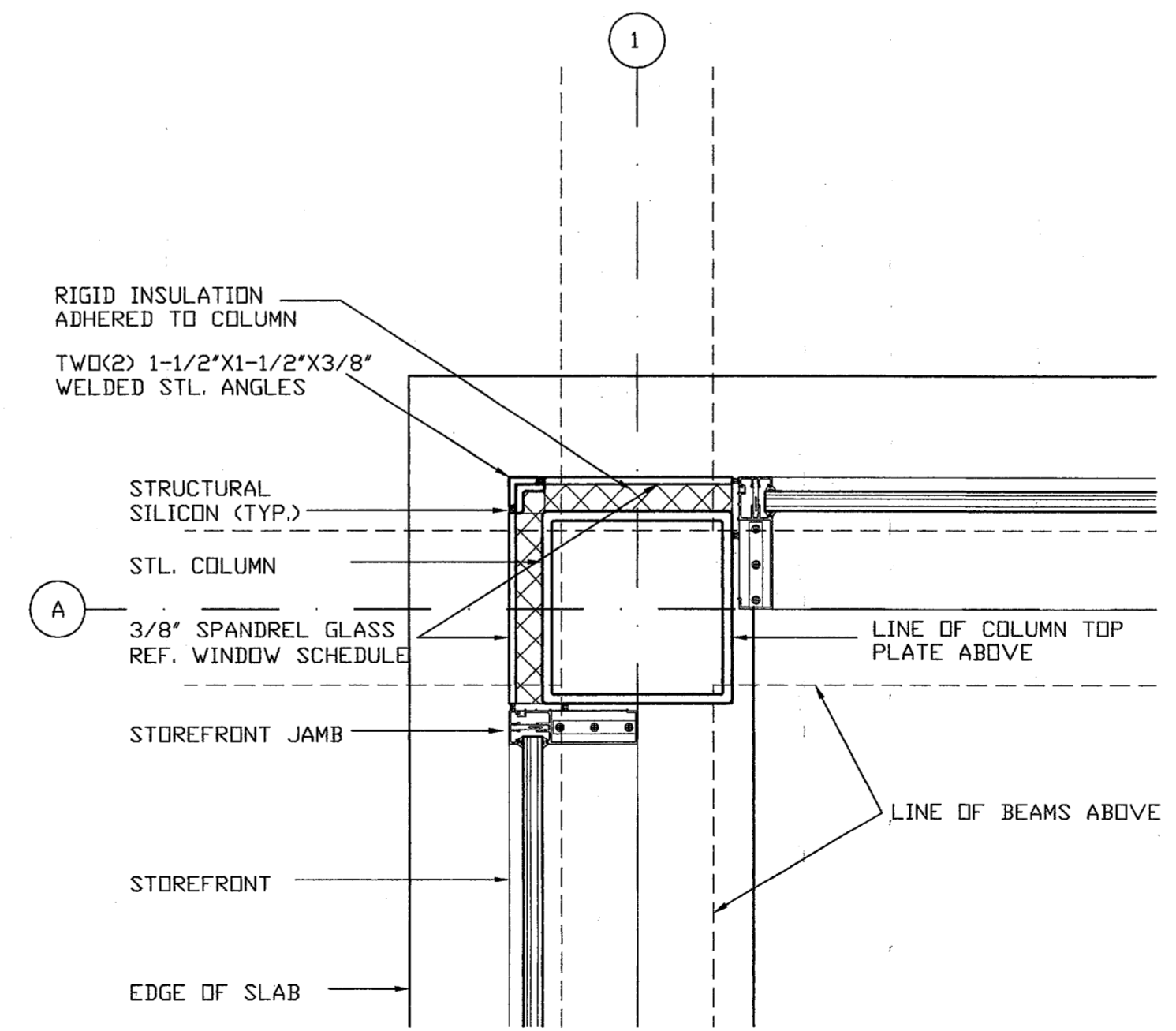
**5 SLAB PLAN**  
 PLAN DETAILS 1/8"=1'-0"



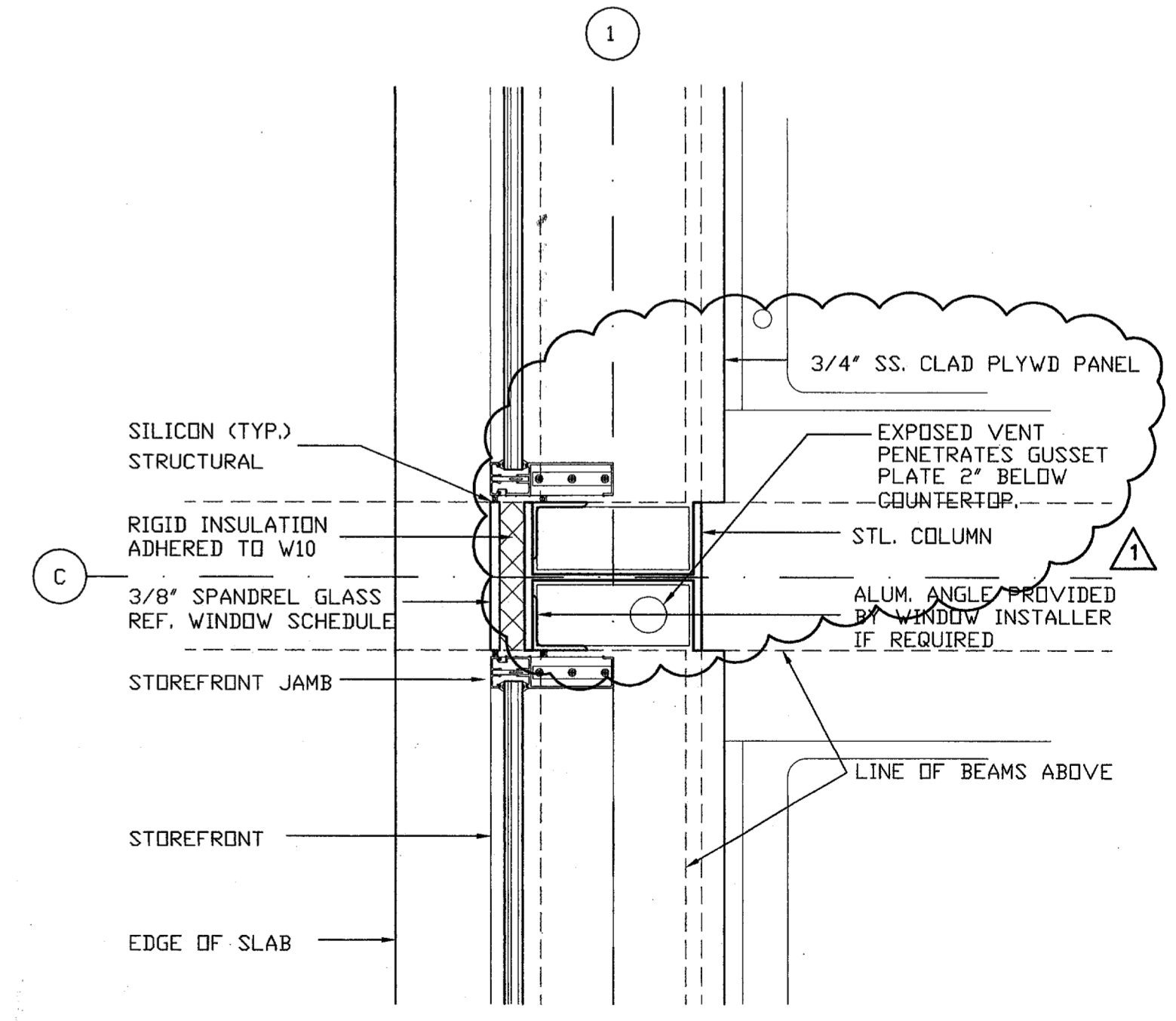
**4 CMU CHASE @ CARRIER**  
 PLAN DETAILS 1-1/2"=1'-0"



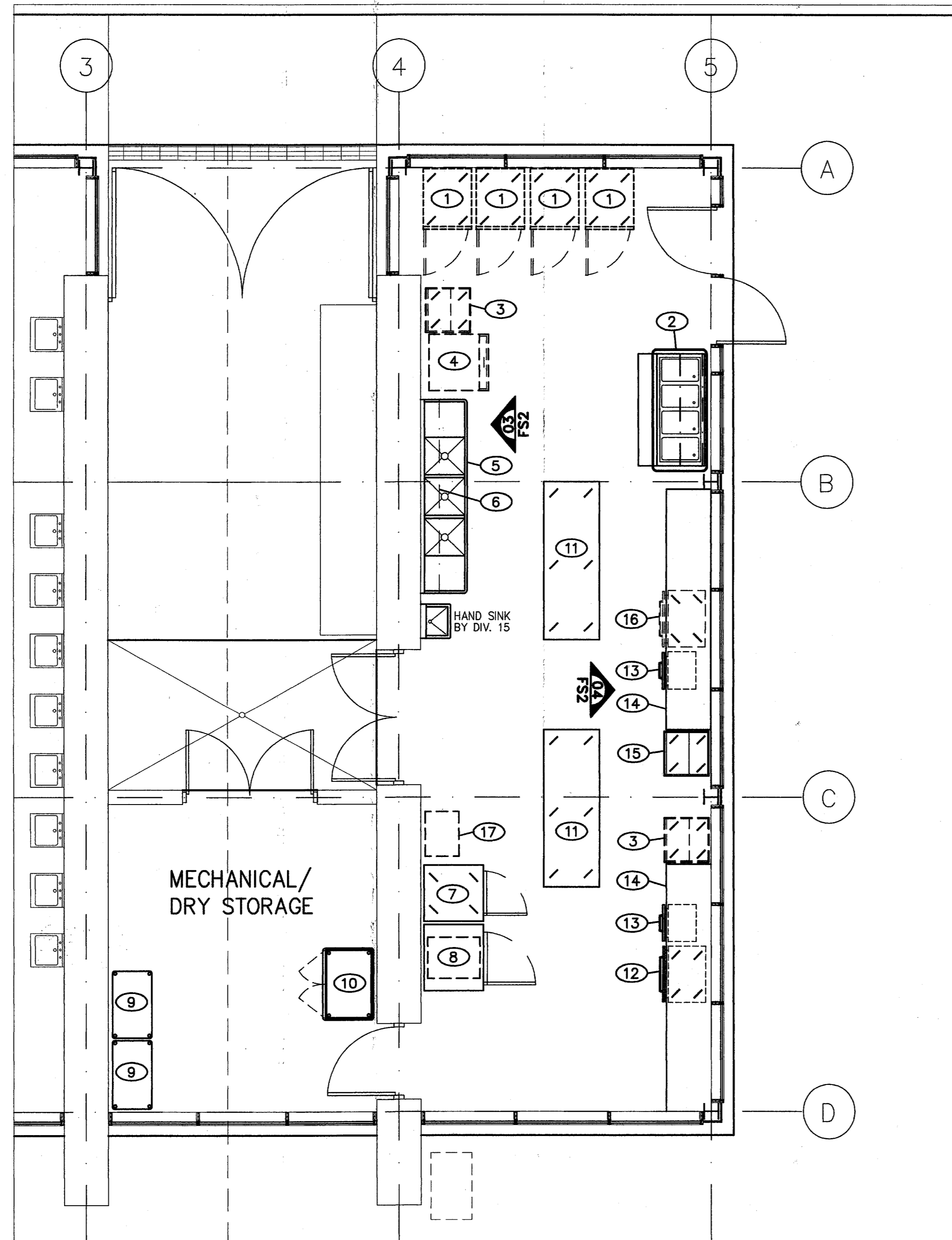
**3 STEEL COLUMN @ 3A**  
 PLAN DETAILS 3"=1'-0"



**2 STEEL COLUMN @ CL 1A**  
 PLAN DETAILS 1-1/2"=1'-0"



**1 STEEL COLUMN @ CL 1B**  
 PLAN DETAILS 1-1/2"=1'-0"



FOODSERVICE EQUIPMENT PLAN  
SCALE: 1/4"=1'-0"

EQUIPMENT SCHEDULE				
ITEM	QTY	DESCRIPTION	SUPPLIER	REMARKS
1.	4	CATERING CARTS (HOT/COLD)	VF/M	LOCATIONS FOR PARKING - N.I.C.
2.	1	MOBILE STEAM TABLE	KEC	-
3.	2	MOBILE ICE BIN	-	ALTERNATE LOCATION - N.I.C.
4.	1	ICE MAKER W/ BIN	-	FUTURE - N.I.C.
5.	1	3 COMPARTMENT SINK (20" X 20" X 14" DEEP)	KEC	-
6.	1	WIRE WALL SHELF	KEC	-
7.	1	MOBILE REACH-IN REFRIGERATOR	KEC	-
8.	1	ROLL-IN REFRIGERATOR	KEC	-
9.	2	MOBILE 5-TIER SHELVING UNIT	KEC	-
10.	1	MOBILE LIQUOR SECURITY CAGE	KEC	-
11.	2	MOBILE S/S WORKTABLE	KEC	-
12.	1	MOBILE 2-DRAWER ROLLWARMER	KEC	-
13.	2	CASH DRAWER	KEC	-
14.	1	LOT STAINLESS STEEL COUNTER	KEC	-
15.	1	MOBILE ICE BIN	KEC	-
16.	1	MOBILE 2-DRAWER ROLLWARMER	-	ALTERNATE LOCATION - N.I.C.
17.	1	LOCATION FOR COFFEE MAKER	-	FUTURE - N.I.C.

N.I.C. - NOT IN CONTRACT  
VF/M - VENDOR FURNISHED/VENDOR INSTALLED

HEALTH DEPARTMENT NOTES

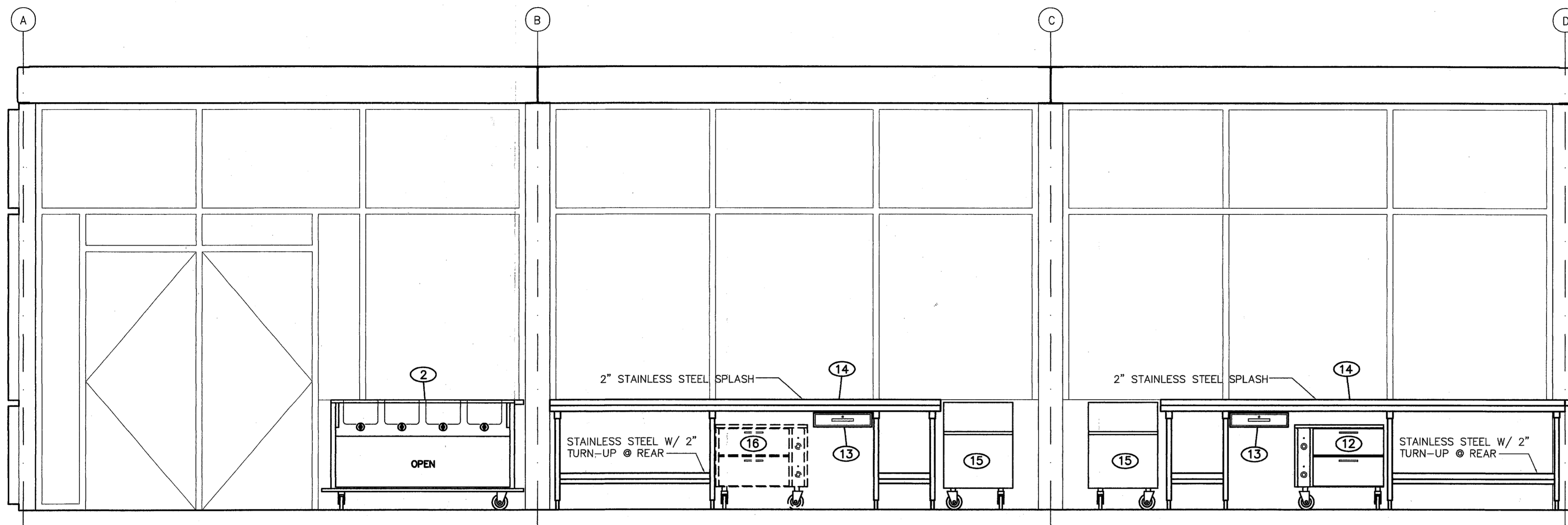
- ICE MACHINES TO BE HELD 6" OFF WALL. IF VACUUM BREAKER IS REQUIRED BY CODES IT WILL BE FURNISHED BY PLUMBING CONTRACTOR.
- HOT FOOD WELLS AND STEAM TABLES ARE FILLED WITH WATER BY COUNTER TOP FAUCETS OR ADJACENT SINK FAUCETS.
- CABINETS OR COUNTERS WITH EXPOSED FOOD OR CLEAN UTENSILS WILL BE PROVIDED WITH DOORS OR NO OPEN SHELVING BELOW 10" ABOVE FLOOR.
- ALL REFRIGERATION EQUIPMENT SHALL HAVE THERMOMETERS WHICH ARE EASILY READABLE, IN PROPER WORKING CONDITION, AND ACCURATE WITHIN A RANGE OF PLUS OR MINUS TWO DEGREES.
- COUNTER TOP EQUIPMENT NOT READILY MOVABLE, WEIGHING OVER 80 POUNDS WILL BE PROVIDED WITH LEGS OR FEET AT LEAST 4" HIGH.
- ALL CHEMICAL SANITIZER KITS FOR THREE (3) COMPARTMENT SINKS WILL BE FURNISHED BY THE CHEMICAL SUPPLIER.
- ALL CHEMICAL INJECTION SYSTEMS MUST BE INSTALLED DOWNSTREAM FROM A VACUUM BREAKER OR AIR GAP TO PREVENT POSSIBLE BACK SIPHONAGE OF THE CHEMICALS INTO THE WATER LINE SYSTEM.
- ALL CUTTING BOARDS AND WORK SURFACES SHALL BE OF NON-WOOD CONSTRUCTION.
- ALL FOOD SERVICE AND RELATED EQUIPMENT SHALL BE INSTALLED IN CONFORMITY WITH NSF STANDARDS.
- AN AISLE SPACE OF 36" MINIMUM OR MORE SHALL BE PROVIDED WITHIN ALL WORK AND STORAGE AREAS.
- BACK SPLASHES OF EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 3" FROM WALLS OR SEALED TO WALLS.
- VACUUM BREAKERS WHEN USED TO BE A MINIMUM OF 6" ABOVE THE FLOOD LEVEL RIM WITH NO SHUT-OFF DEVICES BEYOND THE DISCHARGE OF THE VACUUM BREAKER.
- PROVIDE A MINIMUM OF 50 FOOT CANDLES OF LIGHTING IN ALL FOOD PRODUCTION AND SERVING AREAS AND INCLUDING WALK-IN BOXES. LIGHTING TO BE SCHEDULED OVER EXPOSED FOOD AND UTENSIL AREAS.
- HAND WASHING FACILITIES ARE REQUIRED FOR FOOD PREPARATION, SERVING, OR UTENSIL WASHING AREAS AND WILL BE SHOWN ON THE FLOOR PLAN.



date  
01/22/03

issue  
100% CD

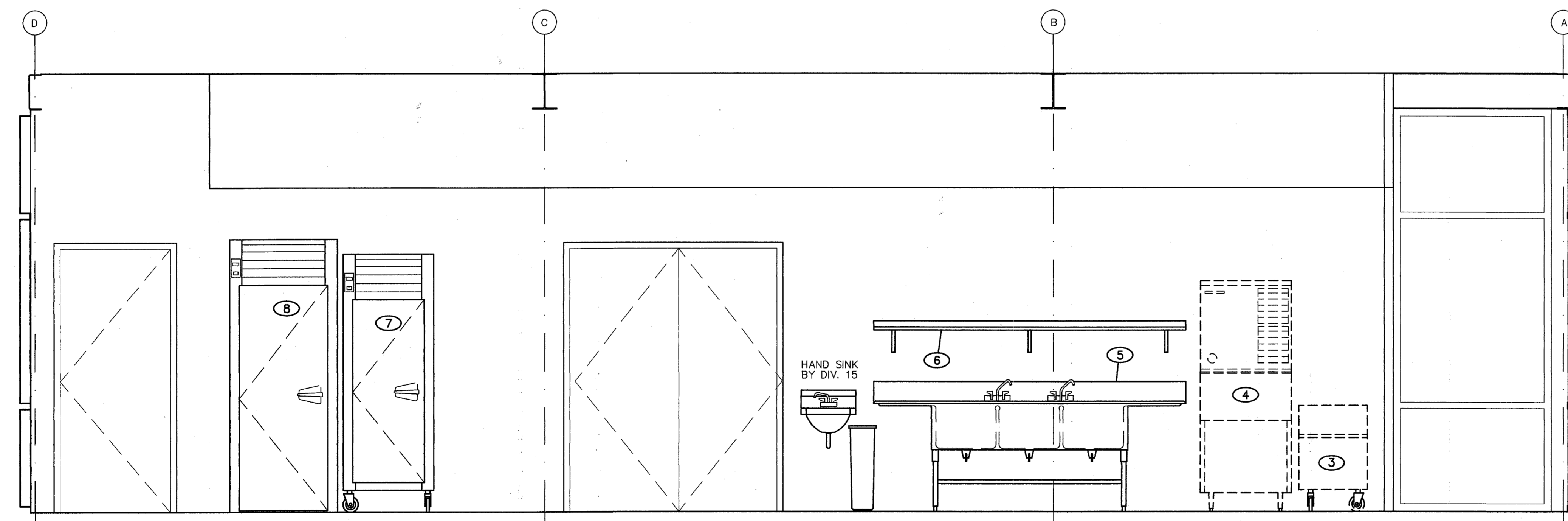




FOODSERVICE EQUIPMENT ELEVATION

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

04



FOODSERVICE EQUIPMENT ELEVATION

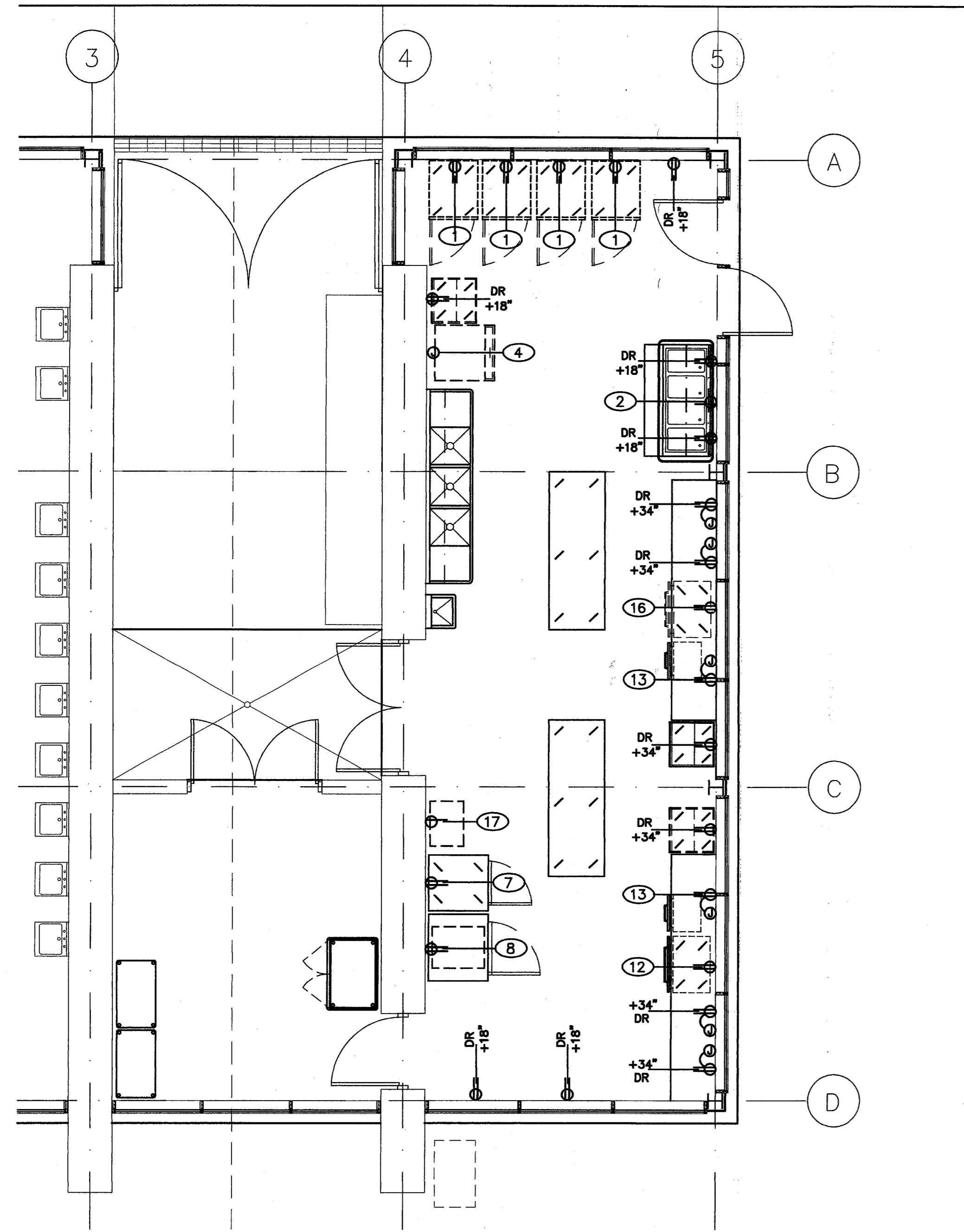
SCALE : 1/2" = 1'-0"

03

date  
01/22/03

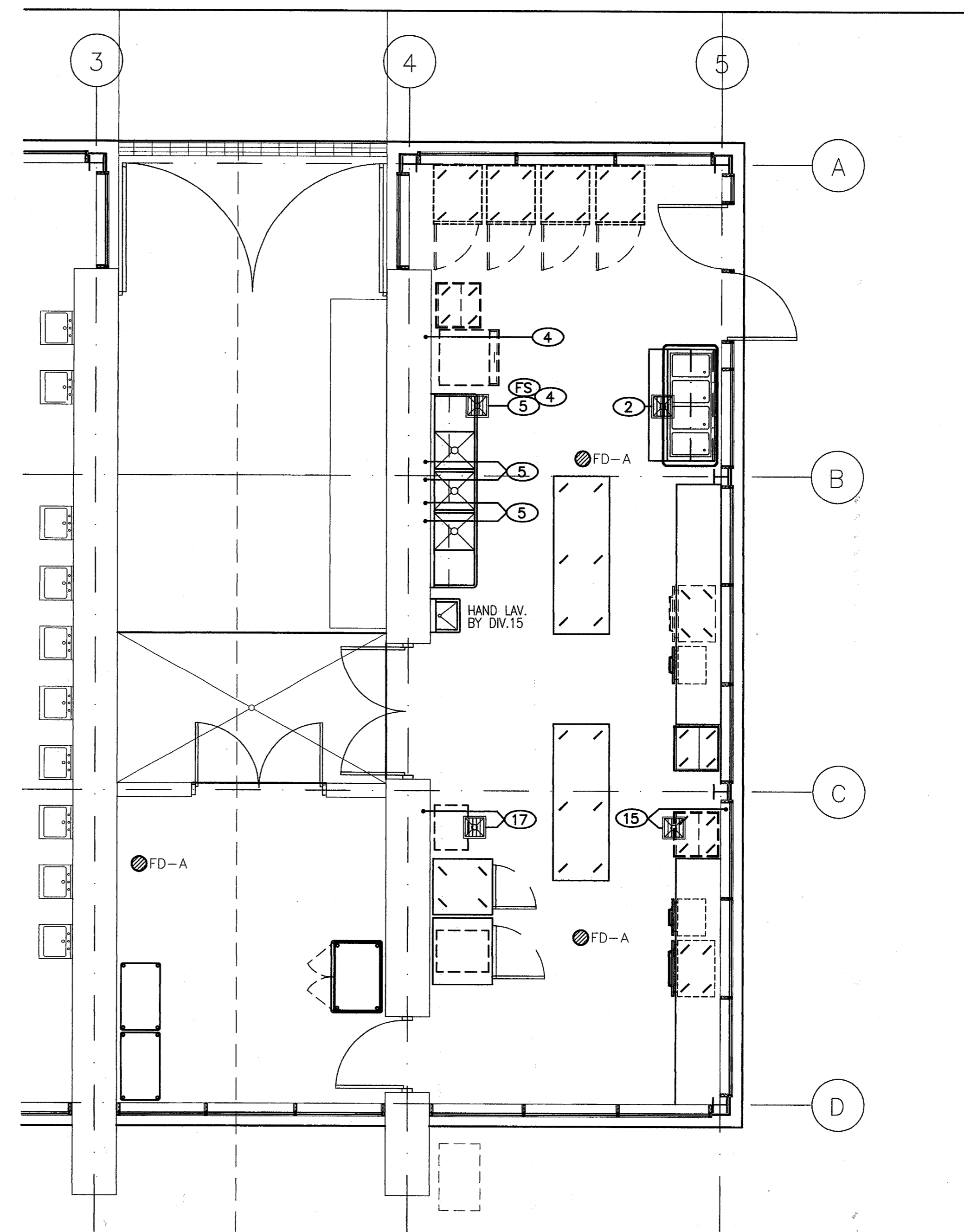
issue  
100% CD





FOODSERVICE ELECTRICAL PLAN  
SCALE: 1/4"=1'-0"

GENERAL NOTE:  
COORDINATE WITH ELECTRICAL  
& MECHANICAL DRAWINGS. IN  
CASE OF CONFLICT, CONTACT  
ARCHITECT



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

ITEM	QTY	DESCRIPTION	ELECTRICAL						REMARKS
			FLAMPS	KW	HP	VOLTS	PHASE	ROUGH-IN HEIGHT	
1.	4	CATERING CARTS (HOT/COLD)	16.6			120	1 - X	18"	
2.	1	PORTABLE STEAM TABLE	14.4			208	1 - X	18"	
4.	1	ICE MAKER W/ BIN	11.0			120/208	1 X	60"	BTC - 3 WIRE W/ NEUTRAL FOR 120V
7.	1	REACH-IN REFRIGERATOR	8.0			120	1 - X	87"	
8.	1	ROLL-IN REFRIGERATOR	10.6			120	1 - X	87"	
12.	1	MOBILE 2-DRAWER ROLLWARMER	7.5			120	1 - X	18"	
13.	2	CASH DRAWER	5.0			120	1 - X	24"	BTC - PEDESTAL RECEPT. ON COUNTER - DEDICATED CIR./ISOLATED GROUND
16.	1	MOBILE 2-DRAWER ROLLWARMER	7.5			120	1 - X	18"	ALTERNATE LOCATION
17.	1	COFFEE MAKER	29.0			120/208	1 - X	24"	BTC - 4 WIRE W/ GROUND

ELECTRICAL NOTES

- ALL FINAL CONNECTIONS SHOWN ON THIS DRAWING ARE ACTUAL REQUIREMENTS OF THE EQUIPMENT AND ARE SHOWN IN THEIR APPROXIMATE LOCATION.
- FABRICATED EQUIPMENT SHALL BE PRE-WIRED TO A SINGLE JUNCTION BOX FOR FINAL CONNECTION BY ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL SWITCHES, STARTERS, DISCONNECTS OR LOCK-OUT DEVICES, STARTERS, ETC., TO MEET N.E.C. AND O.S.H.A. STANDARDS.
- ALL RECEPTACLES SHALL BE GROUNDED PER N.E.C. AND O.S.H.A.
- WHEN OUTLETS ARE INDICATED, IT WILL BE ASSUMED THAT ATTACHED CORD AND PLUG IS STANDARD WITH EQUIPMENT UNLESS NOTED OTHERWISE.
- WHERE CONNECTION IS SHOWN AS JB, ELECTRICAL CONTRACTOR SHALL CONNECT TO JB FURNISHED WITH EQUIPMENT.
- USE COMPONENT HARDWARE #R5B-1010 SINGLE FACED ELECTRICAL OUTLET BOXES ON COUNTER TOP. BRANCH ELECTRICAL FROM JUNCTION BOXES ROUGHED IN @ 24" AFF. PROVIDE DUPLEX OUTLETS W/ 20 AMP CIRCUIT.

ABBREVIATIONS

- JB -- JUNCTION BOX
- DR -- DUPLEX RECEPTACLE
- SR -- SINGLE RECEPTACLE
- CIR -- CIRCUIT
- KW -- KILOWATT
- AMP -- AMPHERES
- HP -- HORSE POWER
- AFF -- ABOVE FINISH FLOOR
- BTC -- BRANCH TO CONNECTION

ELECTRICAL SYMBOLS

- SINGLE RECEPTACLE
- ⊖ DUPLEX RECEPTACLE
- ⊙ JUNCTION BOX
- ITEM NUMBER

ITEM	QTY	DESCRIPTION	WATER		WASTE		GAS		ROUGH-IN HEIGHT	REMARKS
			COLD	HOT	DIRECT	INDIRECT	SIZE	MBU/HR		
2.	1	PORTABLE STEAM TABLE				1"			0"	BTC - MANIFOLD DRAINS W/ CHECK VALVE TO HOLD WATER IN PANS
4.	1	ICE MAKER W/ BIN	1/2"			(2)3/4"			60", 0"	BTC
5.	1	3 COMPARTMENT SINK (20" X 20" X 14" DEEP)	(2)3/4"	(2)3/4"		(3)2"			16", 0"	BTC
15.	1	MOBILE ICE BIN	1/2"			(2)1"			16", 0"	BTC - LOCATION FOR FUTURE SODA DISPENSER
17.	1	COFFEE MAKER	3/8"			1/2"			48", 0"	BTC - LOCATION FOR FUTURE COFFEE MAKER

PLUMBING ROUGH-IN NOTES

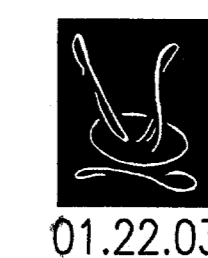
- ALL FINAL CONNECTIONS SHOWN ON THIS DRAWING ARE ACTUAL REQUIREMENTS OF THE EQUIPMENT AND ARE SHOWN IN THEIR APPROXIMATE LOCATION.
- PLUMBING VENT SIZES AND LOCATIONS ARE TO BE PER THE PLUMBING DRAWINGS.
- FLOOR DRAINS SHOWN ARE FOR EQUIPMENT USE AND GENERAL CLEANING PURPOSES, AND ARE TO BE OF THE TYPE INDICATED IN SYMBOLS AND SCHEDULED IN THE PLUMBING DRAWINGS UNLESS OTHERWISE REQUIRED BY LOCAL CODES.
- STOP VALVES SHALL BE PROVIDED IN ALL PIPING TO KITCHEN AND OTHER EQUIPMENT OR FIXTURE AHEAD OF OPERATING LEVER HANDLES OR FAUCETS. BACK FLOW PREVENTER SHALL BE ADDED IN LINE PRIOR TO ALL SODA EQUIPMENT.
- FABRICATED EQUIPMENT SHALL BE PRE-PIPED BY FABRICATOR TO ONE POINT AS INDICATED FOR FIELD CONNECTION BY THE PLUMBING CONTRACTOR.
- HAND SINKS, POT SINKS AND/OR FLOOR SINKS TO BE SPILLED TO GREASE TRAP AS REQUIRED BY CODES.

ABBREVIATIONS

- H&C - HOT & COLD WATER
- FDA - AREA FLOOR DRAIN
- AFF - ABOVE FINISH FLOOR
- BTC - BRANCH TO CONNECTION

PLUMBING SYMBOLS

- HOT OR COLD WATER
- DRAIN
- FD-A AREA FLOOR DRAIN
- ⊖ FLOOR SINK



WORRELL DESIGN GROUP  
10200 RICHMOND AVE, SUITE 280  
HOUSTON, TEXAS 77042-4191  
4225

01.22.03

FOODSERVICE  
MECHANICAL/  
ELECTRICAL/  
PLUMBING  
PLAN

FSMEP1





**GENERAL MECHANICAL NOTES:**

1. IN THE EVENT A DISCREPANCY IS FOUND IN THE CONTRACT DOCUMENTS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
2. ALL WORK SHALL BE PERFORMED BY QUALIFIED MECHANICS AND PLUMBERS UNDER THE DIRECTION OF AN EXPERIENCED SUPERVISOR. IN INSTALLING EQUIPMENT AND SYSTEMS OF SIMILAR TYPE AS INDICATED BY THE CONTRACT DOCUMENTS.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT RULES AND REGULATIONS OF THE STATE AND LOCAL CODES AND IN ACCORDANCE WITH CURRENT INDUSTRY STANDARDS.
4. PROVIDE ALL EQUIPMENT MATERIALS, LABOR SUPERVISION, AND SERVICES NECESSARY FOR OR INCIDENTAL TO THE INSTALLATION OF A COMPLETE AND OPERATING HVAC, FIRE PROTECTION, AND/OR PLUMBING SYSTEM AS SHOWN OR INDICATED ON THE DRAWINGS AND/OR AS SPECIFIED.
5. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO PROTECT ALL EXISTING OPERATIONS AND PROPERTY ADJACENT, WITH WHICH WORK COMES IN CONTACT, OR OVER WHICH HE MAY TRANSPORT, STORE, OR OPERATE EQUIPMENT, MATERIALS, ETC., AND SHALL REPAIR ANY DAMAGE CAUSED TO MATCH EXISTING BEFORE DAMAGE.
6. CONTRACTOR SHALL EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS IN THEIR ENTIRETY. SURVEY THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND SCOPE OF WORK. ALL COSTS SUBMITTED SHALL BE BASED ON A THOROUGH KNOWLEDGE OF ALL WORK AND MATERIALS REQUIRED. ANY ADDITIONAL COSTS DUE TO FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. VERIFY THE CONDITION AND LOCATION OF UTILITIES. ANY ITEMS REQUIRING REPAIR OR RELOCATION SHALL BE REPAIRED OR RELOCATED TO PROVIDE THE OWNER A COMPLETE AND OPERATING MECHANICAL SYSTEM. OBTAIN APPROVAL FROM THE OWNER PRIOR TO RELOCATION OF EXISTING SERVICES OR COMPONENTS.
8. PRODUCTS OF A SIMILAR NATURE SHALL BE OF THE SAME TYPE AND MANUFACTURER. PROVIDE THE STANDARD PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SPECIFIED PRODUCTS, UNLESS OTHERWISE REQUIRED BY DRAWINGS OR SPECIFICATIONS. ALL SUCH PRODUCTS SHALL BE LISTED, LABELED, OR CERTIFIED BY UNDERWRITERS LABORATORIES.
9. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF WORK.
10. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.
11. CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT SITE AND BE RESPONSIBLE FOR CORRECTNESS OF SAME.
12. CONNECT NEW WORK TO EXISTING CONSTRUCTION IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK IN MAKING SUCH CONNECTION TO PERFECT CONDITION.
13. ALL WORK SHALL BE INSTALLED READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR.
14. ALL WORK AND EQUIPMENT TO BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF FINAL PAYMENT AND ACCEPTANCE.
15. ALL CUTTING AND PATCHING IN CONNECTION WITH THIS TRADE SHALL BE DONE BY THIS CONTRACTOR.
16. STORE MATERIALS IN SPACES DESIGNATED BY OWNER.
17. REMOVE RUBBISH FROM PREMISES AS OFTEN AS NECESSARY OR DIRECTED.
18. EQUIPMENT INTENDED FOR PERMANENT INSTALLATION SHALL NOT BE OPERATED FOR TEMPORARY PURPOSES.
19. ALL WORK AND EQUIPMENT SHALL BE CLEANED TO THE SATISFACTION OF THE OWNER BEFORE TURNING SAME OVER TO OWNER.
20. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING AND INSTALLING ANY EQUIPMENT. THE CONTRACTOR MAY SUBMIT FOR APPROVAL, 10 DAYS PRIOR TO PRESENTATION OF NEGOTIATED PRICE TO OWNER, ALTERNATE MANUFACTURERS OF ALL ITEMS SPECIFIED ON THESE DRAWINGS.
21. THE CONTRACTOR SHALL PROVIDE THE A/E TEAM A COMPLETE SET OF "AS BUILT" DRAWINGS FOR ALL WORK PERFORMED ON THE PREMISES. PROVIDE A MINIMUM OF 4 COPIES REQUIRED UNLESS NOTED OTHERWISE IN ARCHITECTURAL DRAWINGS.
22. SUPPORTS FOR ALL EQUIPMENT AND PIPING SHALL PROVIDE ADEQUATE SLOPE AND ANCHORAGE. CONTRACTOR SHALL USE HANGERS, RODS AND INSERTS INSTALLED, CONSTRUCTED, AND SPACED PER MSS REQUIREMENTS.
23. ROOF MOUNTED EQUIPMENT SHALL BE MOUNTED ON PREFABRICATED FACTORY SUPPLIED UNIT CURBS.
24. ROOF PENETRATIONS SHALL BE KEPT TO A MINIMUM.
25. ALL ROOF MEMBRANE MODIFICATIONS, REPAIRS, CUTTING, FLASHING, COUNTERFLASHING, PENETRATIONS, AND CURB INSTALLATIONS SHALL BE ENGINEERED AND INSTALLATION PERFORMED BY ROOFING CONTRACTOR.
26. ALL ROOF CAPS SHALL BE COMPLETE WITH BIRDSCREEN.
27. SEAL ALL PENETRATIONS THRU WALLS, FLOORS, AND CEILINGS.
28. PROVIDE ACCESS PANELS FOR ALL CONCEALED EQUIPMENT, FIRE DAMPERS, PIPING VALVES, CLEAN OUTS, ETC. VERIFY TYPE AND COLOR AND LOCATION WITH ARCHITECT.
29. TRENCHING, EXCAVATING, BACKFILLING AND CONCRETE WORK SHALL BE PER DSHA AND LOCAL CODE REQUIREMENTS.
30. THIS CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND NOTIFICATION OF ALL OTHER CONTRACTORS EFFECTED BY ANY EQUIPMENT MODIFICATIONS OR SUBSTITUTIONS.
31. INSTALL ALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE. ROUTE DUCTS AND PIPES PARALLEL AND PERPENDICULAR TO WALLS UNLESS OTHERWISE NOTED.

**HVAC NOTES:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LABOR AND MATERIALS TO PROVIDE A COMPLETE AND WORKING SYSTEM WITHIN THE CONSTRAINTS OF THE NEW STRUCTURE AND NEW CEILING SYSTEM.
2. DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER ASHRAE AND SMACNA STANDARDS AND THE STATE MECHANICAL CODE. THIS INCLUDES (BUT IS NOT LIMITED TO) SEALING ALL DUCTS, SPLITTERS OR SIMILAR BALANCING DEVICES) AT MAJOR DUCTWORK BRANCHES; EXTRACTORS AT MINOR DUCTWORK BRANCHES; DOUBLE WALLED ACoustIC TURNING VANES IN ELBOWS, SPLITTERS AND TURNING VANES IN TEES.
3. ALL DUCTWORK SHALL BE GALVANIZED SHEETMETAL. RECTANGULAR DUCT SHALL BE INTERNALLY LINED WITH 1", 1-1/2" DUCT LINER. ROUND DUCT SHALL BE WRAPPED WITH 1-1/2" INSULATION. FLEX DUCT SHALL BE INSULATED TYPE.
4. EXTERNAL DUCT INSULATION SHALL BE EQUAL TO OVENS CORNING FIBERGLASS WITH FRK VAPOR BARRIER. INSTALL PER MANUFACTURERS RECOMMENDATIONS. THE MINIMUM THICKNESS SHALL BE 1-1/2". DUCT LINER SHALL BE EQUAL TO OVENS CORNING AEROFLEX TYPE 150, 1" THICK.
5. PROVIDE SPIN-IN TAP WITH DAMPER AT EACH RUNOUT TAP OVER LAY-IN CLG. SPIN-IN TAP WITHOUT DAMPER OVER GYP. BD CLCS.
6. PROVIDE FIRE RESISTANT TYPE FLEXIBLE DUCT CONNECTORS ON THE INLET AND DISCHARGE DUCT CONNECTIONS OF ALL EQUIPMENT CONTAINING FANS.
7. FLEXIBLE DUCT SHALL NOT EXCEED 5'-0".
8. ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
9. LOCATE THE THERMOSTAT AND INSTALL AS SHOWN ON THESE DOCUMENTS.
10. ALL REFRIGERANT PIPING SHALL BE TYPE 'K' COPPER. PROVIDE 3/4" ANNEALFLEX ON SUCTION LINE.
11. PROVIDE INTERMEDIATE TRAPS, OVERSIZED RISERS, SUCTION ACCUMULATORS, ETC. AS REQUIRED BY HVAC MANUFACTURER FOR PROPER OPERATION OF CONDENSING UNIT FOR RISE AND DISTANCE OF REFRIGERANT LINES. WITH EQUIPMENT DIMENSIONS FOR EACH CONDENSING UNIT. SUBMIT MANUFACTURER APPROVED REFRIGERANT PIPING DIAGRAM FOR PIPING RISE AND DISTANCE.
12. ALL FLUSH FACE RECTANGULAR CEILING SUPPLY DIFFUSERS SHALL BE 24x24 OR 12"x12" TITUS PAS-AA OR EQUAL UNLESS NOTED OTHERWISE. CFM AND NECK SIZE AS SHOWN ON DRAWINGS. VERIFY FINISH WITH ARCHITECT.
13. ALL FLUSH FACE RECTANGULAR CEILING RETURN AIR GRILLES SHALL BE TITUS PAS-AA UNLESS NOTED OTHERWISE. SIZE AS SHOWN ON DRAWINGS. SURFACE MOUNT BORDER TYPE 1, SNAP-IN BORDER TYPE 2, LAY-IN BORDER TYPE 3, SPINE BORDER TYPE 4. VERIFY FINISH WITH ARCHITECT.
14. ALL DUCT MOUNTED AND SIDEWALL REGISTERS SHALL BE EQUAL TO TITUS 300 FL UNLESS NOTED OTHERWISE. WITH AG-15 OPPOSED BLADE DAMPER. CFM AND SIZE AS SHOWN ON DRAWINGS. VERIFY FINISH WITH ARCHITECT.

15. ALL SIDEWALL RETURN AIR REGISTERS SHALL BE EQUAL TO TITUS 300 FF2. UNLESS NOTED OTHERWISE. PROVIDE 2" FILTERS. SIZE AS SHOWN ON DRAWINGS.
16. CONDENSATE DRAIN PIPING SHALL BE TYPE 'L' OR 'M' HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.
17. INSULATE CONDENSATE PIPING WITH 1" THICK FIBERGLASS WITH ASJ.
18. RUN AHU CONDENSATE LINE DOWN AND OUT TO NEAREST INDIRECT HUB DRAIN OR FLOOR DRAIN.
19. FOR UNITS OF 2000 CFM OR GREATER PROVIDE MANUAL RESET IONIZATION TYPE SMOKE DETECTOR IN RETURN AIR DUCT AHEAD OF ANY OUTSIDE AIR INLET. DETECTORS SHALL ALSO BE INSTALLED IN THE SUPPLY DUCT, DOWNSTREAM OF THE FILTERS. FOR ALL UNITS LESS THAN 2000 CFM PROVIDE MANUAL RESET FIRESTAY. UPON DETECTION OF PRODUCTS OF COMBUSTION DETECTORS SHALL ACTIVATE. ACTIVATION OF ANY DETECTOR SHALL CAUSE THE AIR-MOVING EQUIPMENT TO AUTOMATICALLY SHUT DOWN.
20. ALL HVAC SYSTEM SMOKE AND FIRE DETECTORS SHALL BE COMPATIBLE WITH FIRE ALARM SYSTEM. COORDINATE WITH FIRE ALARM CONTRACTOR.
21. ALL CONTROL WIRING SHALL BE IN CONDUIT.
22. PROVIDE 1" SPRING ISOLATORS FOR ALL SUSPENDED AIR HANDLING UNITS.
23. PROVIDE 100 PERCENT FREE AREA FIRE DAMPERS.
24. ALL EQUIPMENT NAMEPLATE INFORMATION SHALL BE PERMANENTLY AFFIXED TO EQUIPMENT. NAMEPLATE INFORMATION SHALL BE ETCHED ON METAL PLATES.
25. PROVIDE TIMELOCK FOR OPERATION OF EF-1
26. THE MECHANICAL SYSTEMS SHALL BE TESTED, ADJUSTED, AND BALANCED BY A BALANCING FIRM SPECIALIZING IN THIS TYPE OF WORK (MAY BE MECHANICAL CONTRACTOR.) TESTS SHALL DETERMINE QUANTITATIVE PERFORMANCE OF EQUIPMENT, BALANCING SHALL BE PROPORTIONED WITHIN DISTRIBUTION SYSTEMS) ACCORDING TO SPECIFIED DESIGN QUANTITIES. ALL WORK MUST BE DONE UNDER THE DIRECT SUPERVISION OF AN ENGINEER REGISTERED IN THIS STATE AND CERTIFIED BY NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). ALL WORK SHALL MEET LOCAL CODES AND STANDARDS, NEBB AND ASHRAE TESTING, ADJUSTING, AND BALANCING PROCEDURES. SUBMIT TO THE BUILDING OWNER FOR REVIEW, APPROVAL AND RECORD. TWO COPIES OF THE BALANCING REPORTS ON THE STANDARD REPORT FORMS PREPARED BY NEBB.

**PLUMBING NOTES:**

1. WASTE, DRAIN AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON. NO HUB FITTINGS ARE ACCEPTABLE ABOVE GRADE. SCHEDULE 40 GALVANIZED STEEL OR DWV COPPER MAY BE USED FOR PIPING 1-1/2" OR LESS. SCHEDULE 40 PVC IS ACCEPTABLE IF APPROVED BY OWNER AND LOCAL CODE AUTHORITY. EXPOSED VENT AT LAVS AT VEST WALL. IN MENS ROOM SHALL BE STAINLESS STEEL.
2. POTABLE WATER PIPING, CONDENSATE DRAIN, AND RELIEF PIPING SHALL BE TYPE 'L' HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.
3. INSULATE HOT AND COLD WATER PIPING WITH 1" THICK OVENS CORNING, FIBERGLASS 25 ASJ, JOHN MANSVILLE AP OR APPROVED EQUAL. INSTALLED PER MANUFACTURERS REQUIREMENTS. INSULATION SHALL BE CONTINUOUS THROUGH WALLS, FLOORS, CEILINGS ETC.
4. RUN WATER HEATER RELIEF LINE TO NEAREST FLOOR DRAIN.
5. PROVIDE AIR CHAMBERS AT ALL FIXTURES OR SHOCK ABSORBERS AT EACH BATTERY, OR AS NOTED.
6. PROVIDE SECTIONAL SHUT-OFF VALVES ON EACH BRANCH AND RISER, CLOSE TO MAIN, WHERE BRANCH OR RISER SERVES 2 OR MORE PLUMBING FIXTURES OR EQUIPMENT CONNECTIONS, AND ELSEWHERE AS INDICATED.
7. PROVIDE SHUT-OFF VALVES AT INLET OF EACH PLUMBING EQUIPMENT ITEM, AND AT INLET OF EACH PLUMBING FIXTURE, AND ELSEWHERE AS INDICATED.
8. INSTALL CLEANOUTS IN STORM AND BUILDING DRAIN PIPING AS INDICATED, AND AS REQUIRED BY LOCAL PLUMBING CODE, AT EACH CHANGE IN DIRECTION OF PIPING GREATER THAN 45 DEG. AT MINIMUM INTERVALS OF 50 FEET. CLEANOUTS SHALL BE INSTALLED AT EACH CHANGE IN SIZE, AND AT BASE OF EACH CONDUCTOR. INSTALL FLOOR AND WALL CLEANOUT COVERS FOR CONCEALED PIPING. SELECT TYPE TO MATCH ADJACENT BUILDING FINISH (VERIFY SELECTION WITH ARCHITECT PRIOR TO ORDERING.)
9. INSULATE ALL EXPOSED SANITARY AND WATER PIPING AT ALL HANDICAP RATED LAVATORIES AND SINKS WITH FULLY MOLDED, TRUEBRO, HANDEI LAV-GUARD INSULATION KIT MODEL #102.
10. PROVIDE CAST BRASS OR CHROME ESCUTCHEONS WITH SET SCREW, DEEP TYPE, TO COVER SLEEVES OR A SIZE TO COVER FITTING PROJECTIONS. PROVIDE ESCUTCHEONS FOR ALL EXPOSED PIPING THROUGH WALLS, FLOORS AND EXPOSED CEILING.
11. THE DOMESTIC WATER PIPING SYSTEM SHALL BE STERILIZED PER LOCAL CODE.
12. PROVIDE TRAP PRIMERS ON ALL FLOOR SINKS AND FLOOR DRAINS.

**SPRINKLER SYSTEM NOTES**

1. THE SPRINKLER SYSTEM SHALL BE DESIGNED AS REQUIRED DUE TO THE NEW CONSTRUCTION TO MEET THE REQUIREMENTS OF NFPA 13, THE LOCAL CODE, AND THE OWNER'S INSURER. PIPING DRAWINGS SHALL BE SUBMITTED TO THE APPROPRIATE APPROVAL AGENCY AS OUTLINED BY THE CITY SUBMITTAL REQUIREMENTS. THE SPRINKLER CONTRACTOR SHALL BE LICENSED TO DO WORK IN THIS STATE. ALL PIPING MODIFICATIONS REQUIRED WILL BE INCLUDED IN THIS CONTRACT. SPRINKLER HEAD TYPES SHALL BE CONCEALED WITH WHITE COVERS ALL CEILING AREAS AND BRASS UPRIGHT IN NON-CEILING AREAS. SIDEWALL HEADS SHALL BE CHROME. (VERIFY EXACT FINISH TYPES AND LOCATIONS WITH ARCHITECT.) SPRINKLER CONTRACTOR SHALL PROVIDE TO THE OWNER'S REPRESENTATIVE A COMPLETE SET OF SPRINKLER DRAWINGS INCLUDING MOUNTED PIPING LAYOUT AND SPRINKLER HEAD LOCATIONS FOR APPROVAL PRIOR TO INSTALLATION.
2. UPON COMPLETION OF THE SPRINKLER SYSTEM, THE SPRINKLER CONTRACTOR SHALL HYDROSTATICALLY TEST ALL PIPING PER NFPA AND LOCAL CODE AUTHORITIES. PROPERLY FILLED OUT SPRINKLER CONTRACTOR'S MATERIAL AND TEST CERTIFICATES\* MUST BE FURNISHED TO THE OWNER'S PROJECT MANAGER AT THE JOB SITE AND TO THE OWNER'S INSURANCE RATING BUREAU HAVING JURISDICTION.
3. ALL SPRINKLER PIPING SHALL BE BLACK STEEL APPROVED BY NFPA, THE LOCAL CODE AUTHORITY, AND THE OWNER'S INSURER.
4. PROVIDE DRY SIDEWALL HEAD AT SERVICE YARD CANOPY.

**PLUMBING FIXTURE SCHEDULE**

TYPE	DESCRIPTION
WC	AMERICAN STANDARD INSTANTO ELONGATED FLOOR MOUNTED VITREOUS CHINA WATER CLOSET 2910.010, WITH PRESSAL10030070.020 GREN FRONT SEAT LESS COVER. SLOAN 111 ES-3 ELECTRONIC FLUSH VALVE, PROVIDE ONE EL-134 TRANSFORMER PER TO WATER CLOSERS. CARRIER TO BE ZURN 2-102-N04 OR EQUAL. CARRIER MUST BE NO LARGER THAN ZURN MODEL SPECIFIED.
WCH	SAME AS ABOVE MOUNTED AT ADA HEIGHT
UR	AMERICAN STANDARD ALBROEK 1.0 GPF URINAL, WHITE VITREOUS CHINA, SIPHON, 3/4" TIP SPUD, SLOAN 107M, 108-1 ES-3 ELECTRONIC FLUSH VALVE. ANGLE VALVE IN SUPPLY. PROVIDE STAINLESS STEEL STRAINER. MOUNT NEAR URINAL AT ADA HEIGHTS (SEE ARCH ENGS.). PROVIDE ZURN CARRIER OR EQUAL. PROVIDE ONE EL-134 TRANSFORMER TO URINALS.
LAV	BRADLEY 921-6101 STAINLESS STEEL WALL HUNG LAV. SLOAN EIF-80-LT ELECTRONIC FAUCET WITH BACKCHECKS AND SOLENOID VALVE, EL-208 TRANSFORMER AND GRID DRAIN, 1-1/4" P-TRAP, STOPS IN SUPPLY. INSULATE ALL EXPOSED SANITARY AND WATER PIPING WITH FULLY MOLDED, TRUEBRO, HANDEI LAV-GUARD INSULATION KIT MODEL #102. AT HANDICAPPED LAVS.
HS	BRADLEY 921-6101 STAINLESS STEEL WALL HUNG LAV. SLOAN EIF-80-LT ELECTRONIC FAUCET WITH BACKCHECKS AND SOLENOID VALVE, EL-208 TRANSFORMER AND GRID DRAIN, 1-1/4" P-TRAP, STOPS IN SUPPLY. INSULATE ALL EXPOSED SANITARY AND WATER PIPING WITH FULLY MOLDED, TRUEBRO, HANDEI LAV-GUARD INSULATION KIT MODEL #102. AT HANDICAPPED LAVS.
FS	JOSAM 49002A SERIES FLOOR SINK, NIKALLOY STRAINER, TRAP PRIMER.
FD	JOSAM 30000A SERIES FLOOR DRAIN, NIKALLOY STRAINER, TRAP PRIMER, USE 30000E WHERE FUNNEL CALLED OUT ON DRAWINGS.
FDA	JOSAM 32200 SERIES FLOOR DRAIN, 4" W/SEIMENT BUCKET, NIKALLOY STRAINER, GRATE W/RYNARD PROOF SCREWS, TRAP PRIMER.
WH	WALL HUNG HYDRANT MOUNTED HEADS, NETS AND COLD MIXING FREEZELESS W/INTERNAL VACUUM BREAKER, CHROME CHERRY FINISH WITH ARCH.
WH-1	STATE 386-82-15-17E-NSF WATER HEATER, 82 GAL, 18000 WATTS, 200V/3PH.
DF	HANS MODEL 3277, SS ACCEPTOR AND BRACKET, CHROME PLATED RUBBER AND STRAINER, HEAVY DUTY GALVANIZED POWDER COATED STEEL. COLOR TO BE SELECTED BY ARCHITECT. SHALL BE FREE OF ALL LEAD PIPING AND SOLDER.

**AIR HANDLING UNIT SCHEDULE:**

DESIGN	AHU/CU-4	AHU/CU-1	AHU/CU-2,3
MAKE	TRANE	TRANE	TRANE
AHU MODEL	TWE600P13	TWE48P13	TWE030P13
CU MODEL	TW460300A	TW460300A	TW460300A
SEER	10.35	10.0	10.35
COOLING MBH			
TOTAL	59	47	27
SENSIBLE	41	34	19
CFM	2000	1600	1600
CFM	5	5	5
HP	3/4	1/2	1/2
HEATING :			
KW	18.7	13	8.7
ELECT.			
FLA	54	36	24.2
MCP	208/3	208/3	208/3
VOLTS/PHASE	208/3	208/3	208/3

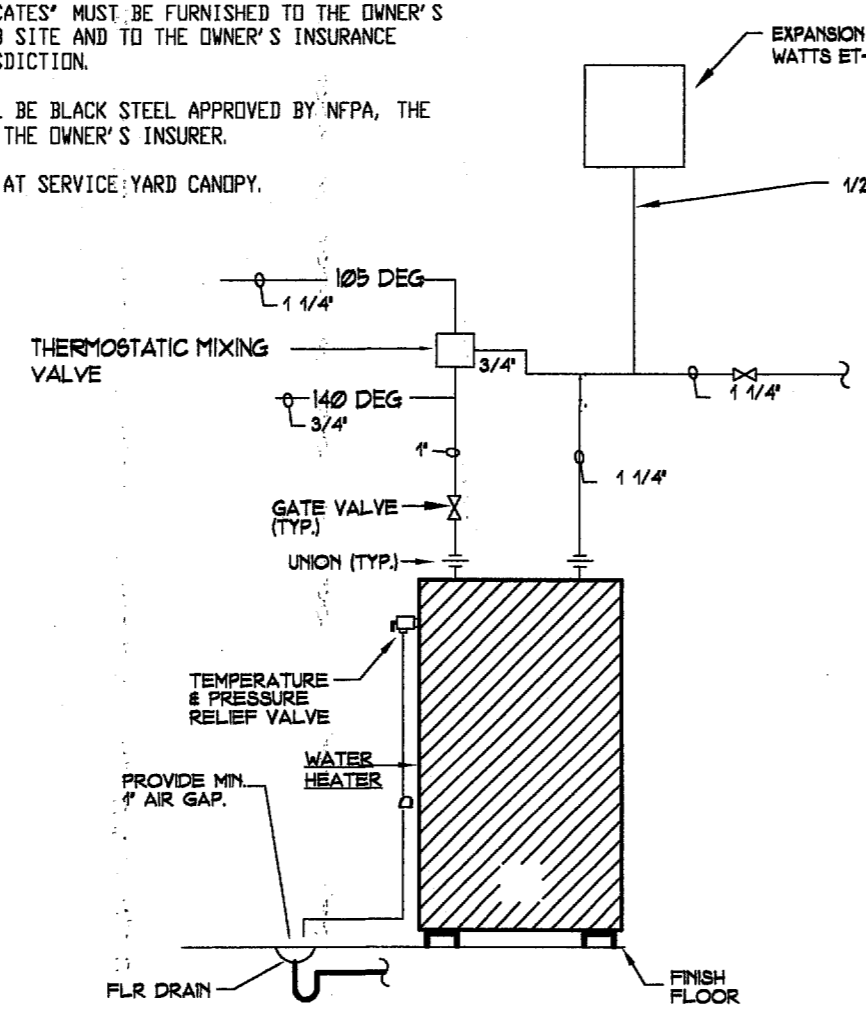
COND UNIT:	AHU/CU-4	AHU/CU-1	AHU/CU-2,3
CMP RLA	19	16	11
CMP FAN FLA	1.9	1.9	1.6
MCA	26	27	15
MCP	40	39	23
VOLTS/PHASE	208/3	208/3	208/3

UNIT SHALL INCLUDE: ANTI-SHORT CYCLE TIMER, CRANKCASE THERMOSTATS WITH REDUCED SENSORS. HEATER, 5 YEAR COMPRESSOR WARRANTY, ELECTRONIC PROGRAMMABLE AUTO CHANGE-OVER

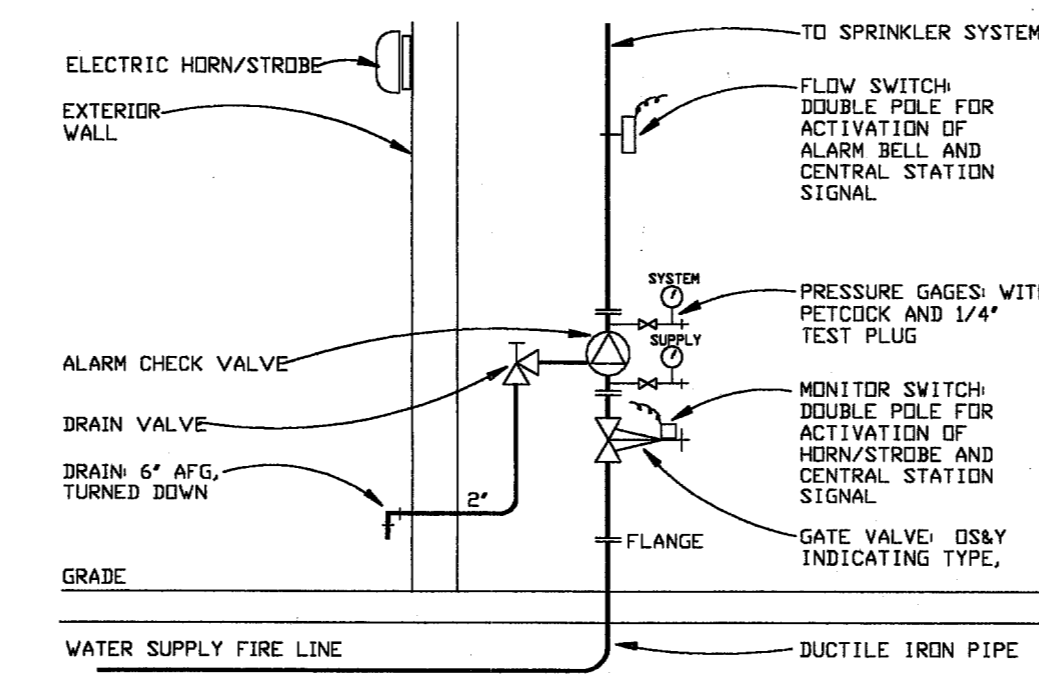
**EXHAUST FAN SCHEDULE**

NO	MANUF	MODEL	CFM	ESP	HP	VOL/PH
	EE-1	GREEN-CHECK	50-130-A	2000	3/4	120

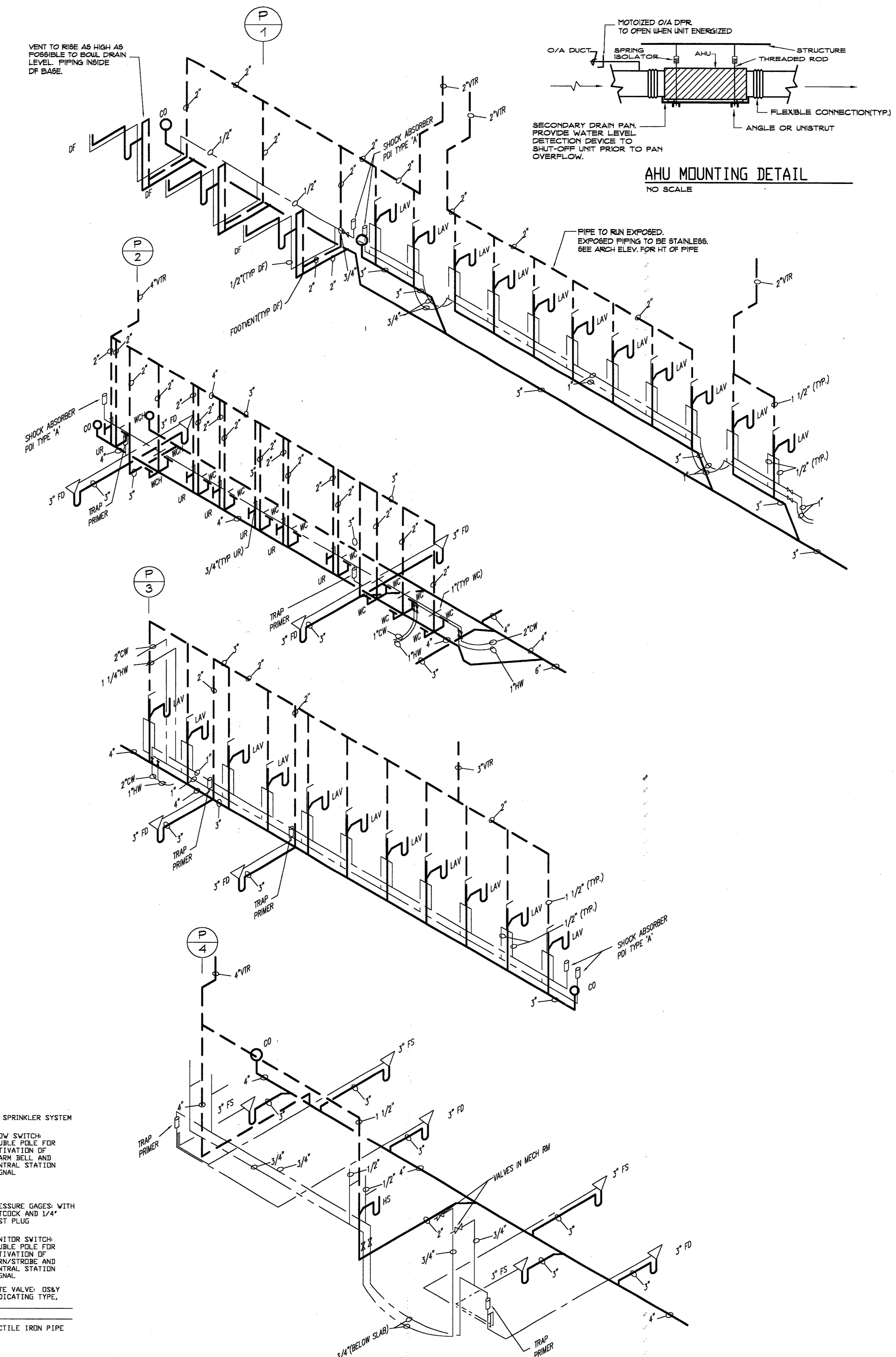
TO INCLUDE: BACKDRAFT DAMPER, DISC SWITCH, NEOPRENE HANGING ISOLATORS AND BRACKETS



**WATER HEATER WH-1 DTL**  
NOT TO SCALE



**FIRE SPRINKLER RISER**  
NOT TO SCALE



**PLUMBING RISERS**  
NOT TO SCALE

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**Addison Arts and Events Pavilion**  
Addison, Texas

date: 08/26/02  
10/31/02  
01/23/03

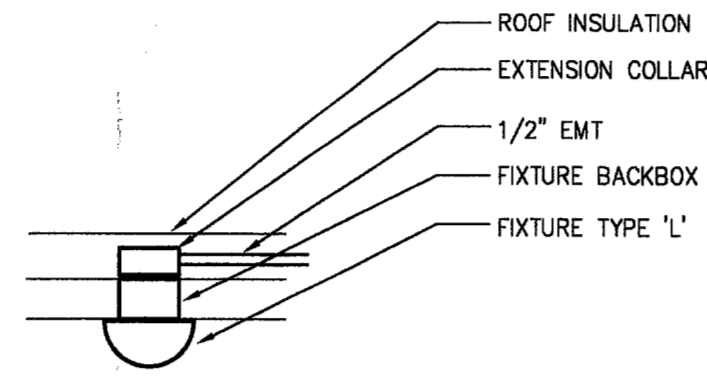
issue: DD 50% CD  
95% CD

**M2.0**  
MECH NOTES

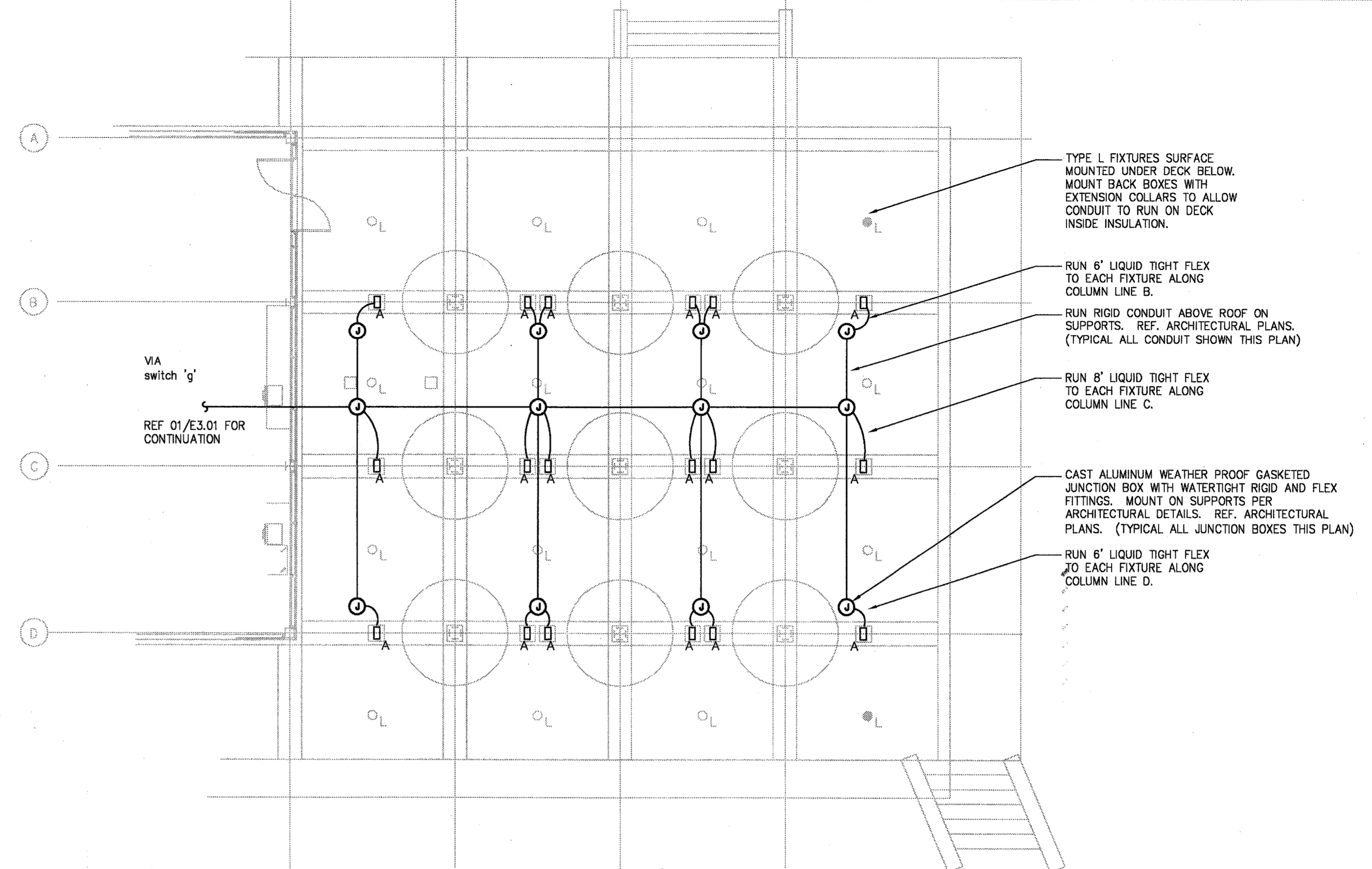


**GENERAL ELECTRICAL LIGHTING NOTES**

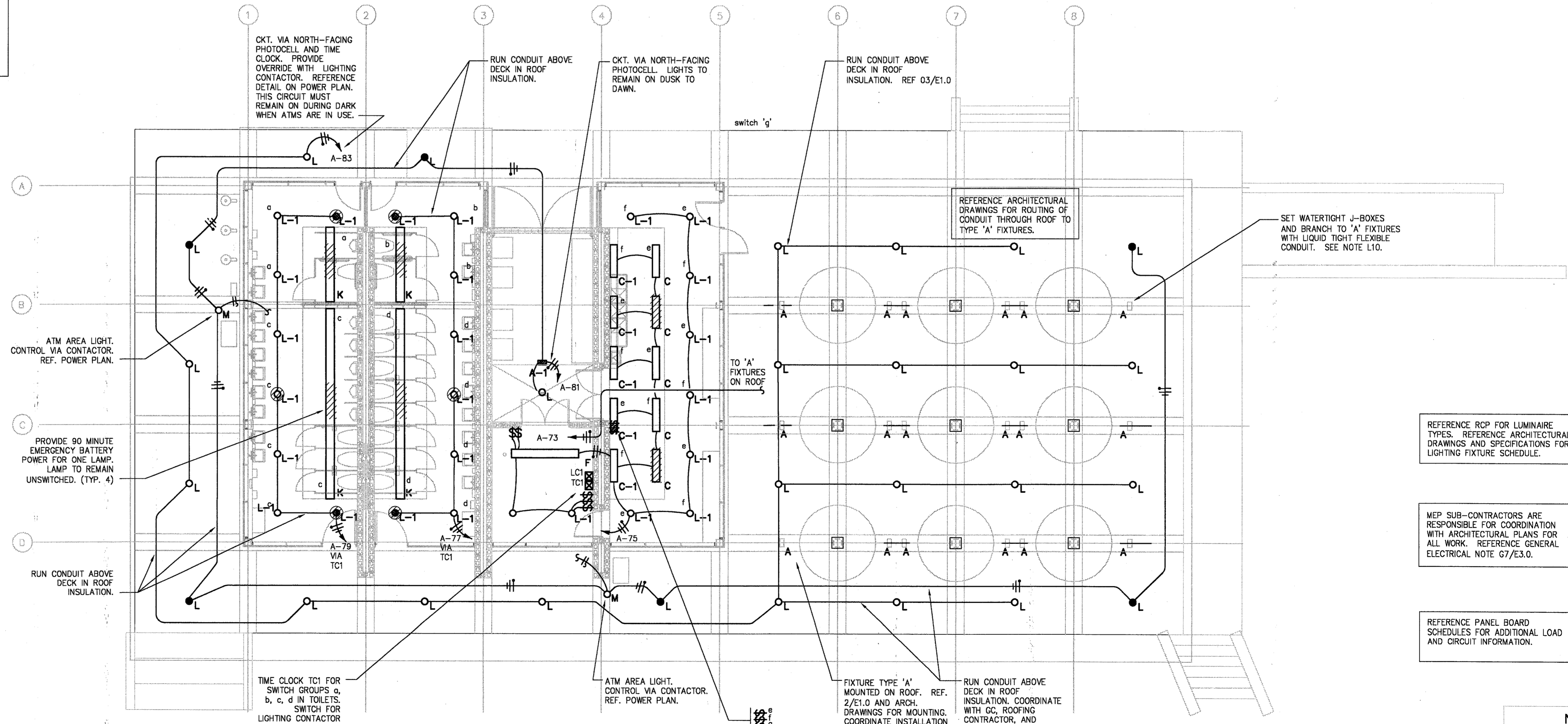
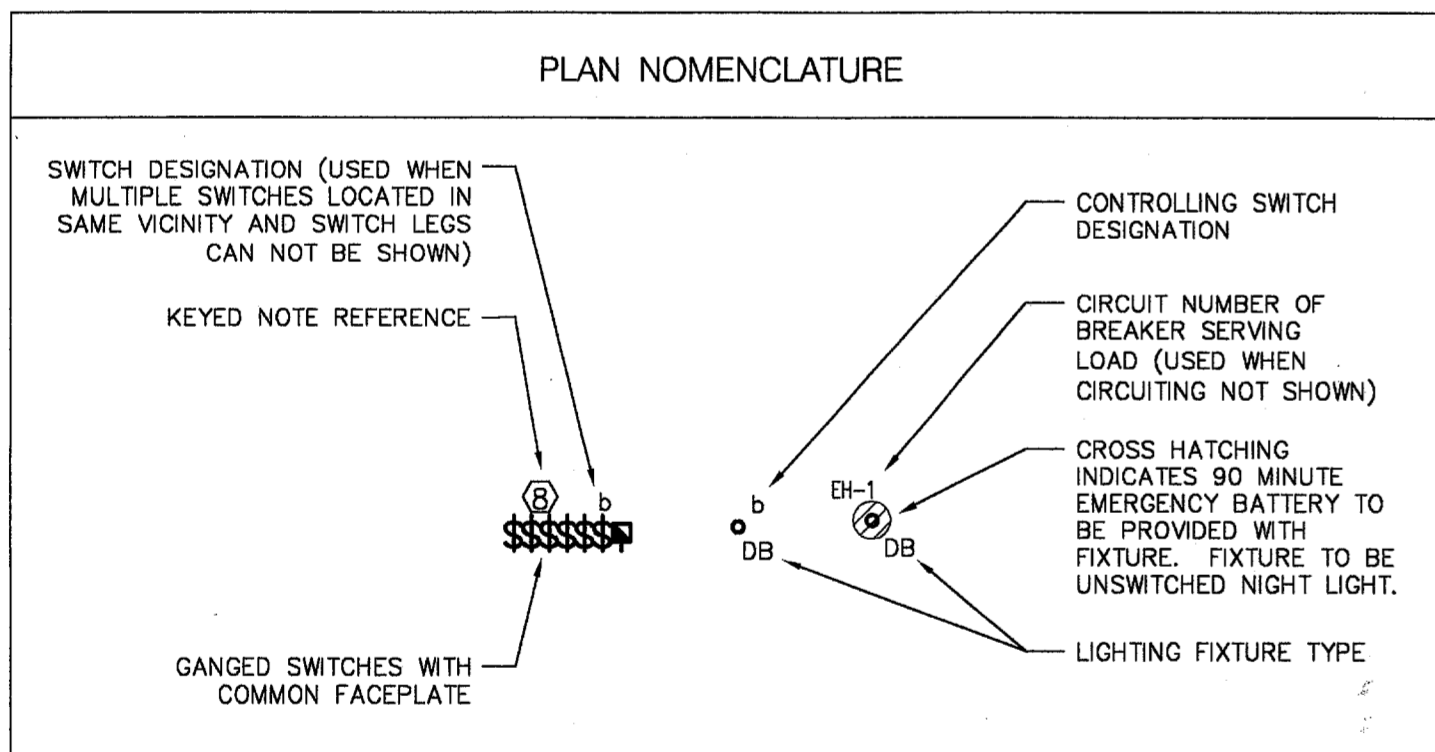
- L1. FIXTURES: ALL FIXTURES ARE TYPE 'A' UNLESS NOTED OTHERWISE. REFERENCE LIGHTING FIXTURE SCHEDULE FOR COMPLETE DESCRIPTION OF EACH FIXTURE TYPE. REFERENCE ARCHITECT'S DRAWINGS FOR EXACT LOCATIONS OF FIXTURES.
- L2. CONTROL: LOWERCASE LETTERS SHOWN ADJACENT TO FIXTURES INDICATE CONTROL BY SWITCHES OR HOMERUNS INDICATED WITH SAME LOWER CASE LETTER. SWITCHES SHOWN NEAR DOORS IN ENCLOSED SPACES CONTROL LIGHTING IN SAME SPACE.
- L3. GANGING: MOUNT ADJACENT SWITCHES GANGED.
- L4. SUPPORT: MOUNT ALL LIGHT FIXTURES ACROSS CEILING TEES OR FROM STRUCTURE ABOVE AS APPROVED BY LOCAL AUTHORITIES. PROVIDE GRID CLIPS IF REQUIRED BY LOCAL AUTHORITIES. IN NO CASE SHALL CEILING TILES OR PLASTER CEILING SUPPORT ANY FIXTURE.
- L5. SWITCHES: ALL LINE VOLTAGE SWITCHES SHALL BE SPECIFICATION GRADE, RATED 20A 120/277V. PROVIDE SWITCHES COMPATIBLE WITH RECEPTACLES BY STYLE AND GRADE. SUBMIT SAMPLES TO ARCHITECT FOR APPROVAL PRIOR TO PURCHASE AND INSTALLATION. VERIFY EXACT LOCATION OF SWITCHES WITH ARCHITECT PRIOR TO INSTALLATION.
  - SWITCH PLATES: FVR
  - SWITCH FACE: FVR
  - MANUFACTURER: FVR
  - STYLE: FVR
- L6. PROVIDE LIGHTING CONTACTORS OR RELAYS AS REQUIRED FOR LIGHTING CONTROL AS SHOWN ON PLANS OR DIRECTED BY OWNER. PROVIDE ADDITIONAL SWITCHING CONTROLS IF REQUIRED BY LOCAL ENERGY CODES.
- L7. WIRE FROM JUNCTION BOXES TO FIXTURES OR SWITCHES. ADDITIONAL JUNCTION BOXES AND SWITCHES MAY BE REQUIRED BEYOND THOSE SHOWN. TYPICAL SWITCHING SHALL BE LOCATED INSIDE EACH ROOM NEAR THE STRIKE SIDE OF EACH DOOR.
- L8. CROSS HATCHED FIXTURES INDICATE EMERGENCY/NIGHT LIGHT FIXTURES. PROVIDE BODINE B50 BATTERY PACK (OR AS SPECIFIED IN LIGHTING FIXTURE SCHEDULE) FOR ALL EMERGENCY/NIGHT LIGHT FLUORESCENT FIXTURES NOT SERVED BY EMERGENCY POWER. PROVIDE QUARTZ RESTRIKE ACCESSORY WITH RELAY FOR ALL EMERGENCY AND EMERGENCY/NIGHT LIGHT HID FIXTURES, IF ANY.
- L9. EMERGENCY EGRESS LIGHTING AND EXIT LIGHTS SHALL COMPLY WITH NFPA 101, ALL LOCAL CODES, AND NATIONAL CODES AND REQUIREMENTS. PROVIDE ALLOWANCE FOR 1 ADDITIONAL EMERGENCY EXIT LIGHTS, AND 1 ADDITIONAL EMERGENCY BATTERY PACK LIGHTS. IF REQUIRED, ADDITIONAL LIGHTS ARE TO BE LOCATED AS DETERMINED BY LOCAL AUTHORITIES AND ARCHITECT.
- L10. COORDINATE ROOF PENETRATIONS OF CONDUIT FOR LIGHTING WITH ARCHITECT. REFERENCE ARCHITECTURAL DRAWINGS FOR ROUTING AND PLACEMENT OF BOXES AND CONDUIT FOR EXTERIOR FIXTURES. PROVIDE WATERTIGHT JUNCTION BOXES AND FIELD VERIFY LOCATION AND PLACEMENT OF BOXES. USE WATERTIGHT FLEXIBLE CONDUIT FOR TYPE 'A' FIXTURES. COORDINATE LENGTH AND ARRANGEMENT OF CONDUIT AND CONNECTIONS FOR TYPE 'A' FIXTURES IN FIELD WITH ARCHITECT.



**3 FIXTURE 'L' INSTALLATION ELECTRICAL DETAIL** N.T.S.



**2 ABOVE ROOF LIGHTING ELECTRICAL PLAN** 1/8\"/>



LIGHTING CONTACTOR LC1: SQUARE D LX640 MECHANICALLY HELD 4 POLE CONTACTOR. (REFERENCE POWER PLAN FOR WIRING DIAGRAM).

TIME CLOCK TC1: TORQ DZS400A ASTRONOMIC 4 CHANNEL DIGITAL SPDT TIME CLOCK.

SEE DRAWINGS BY SITE ARCHITECT FOR EXTENDED AREA ATM LIGHTING.

**1 LIGHTING ELECTRICAL PLAN** 1/8\"/>

REFERENCE RCP FOR LUMINAIRE TYPES. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LIGHTING FIXTURE SCHEDULE.

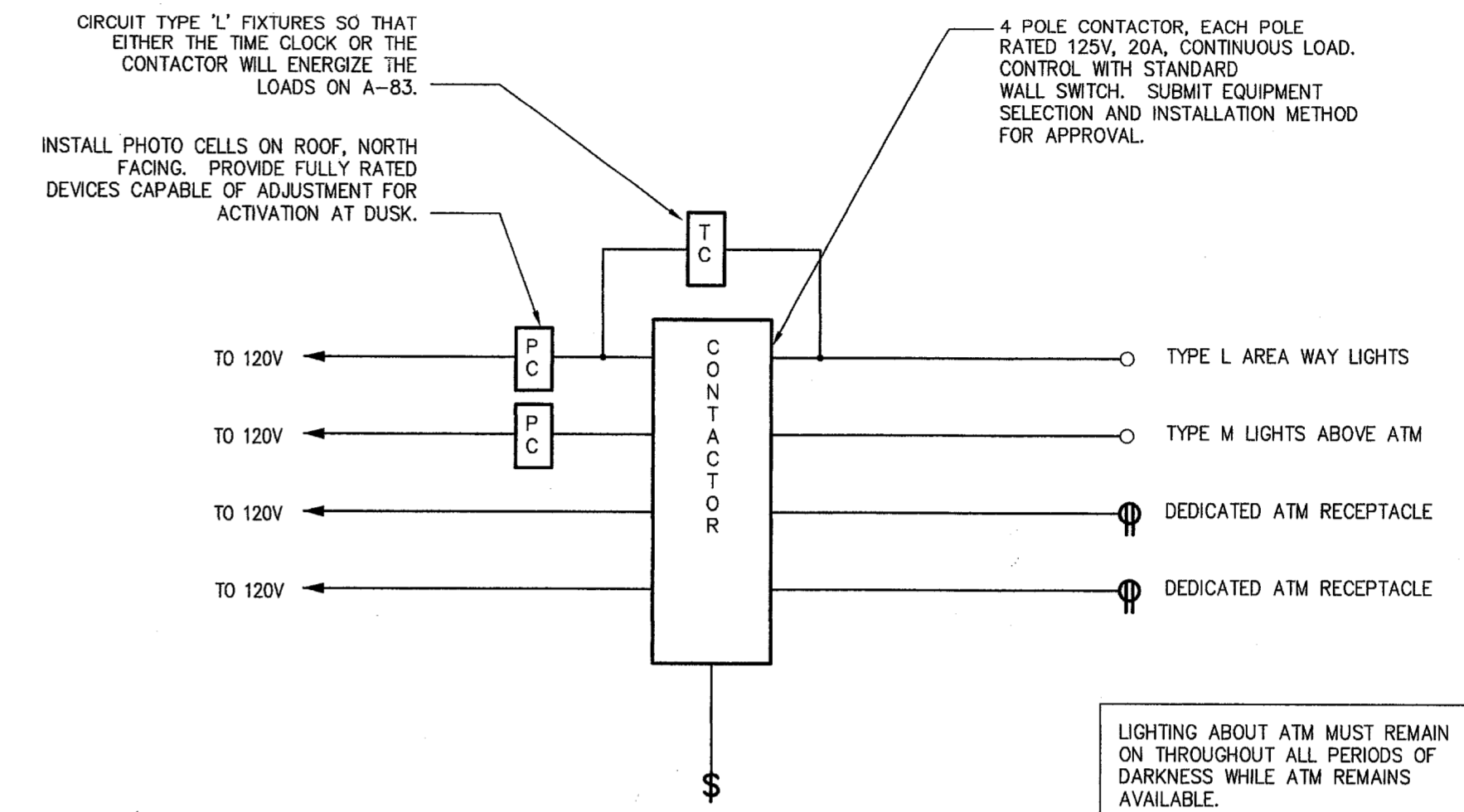
MEP SUB-CONTRACTORS ARE RESPONSIBLE FOR COORDINATION WITH ARCHITECTURAL PLANS FOR ALL WORK. REFERENCE GENERAL ELECTRICAL NOTE 07/E3.0.

REFERENCE PANEL BOARD SCHEDULES FOR ADDITIONAL LOAD AND CIRCUIT INFORMATION.

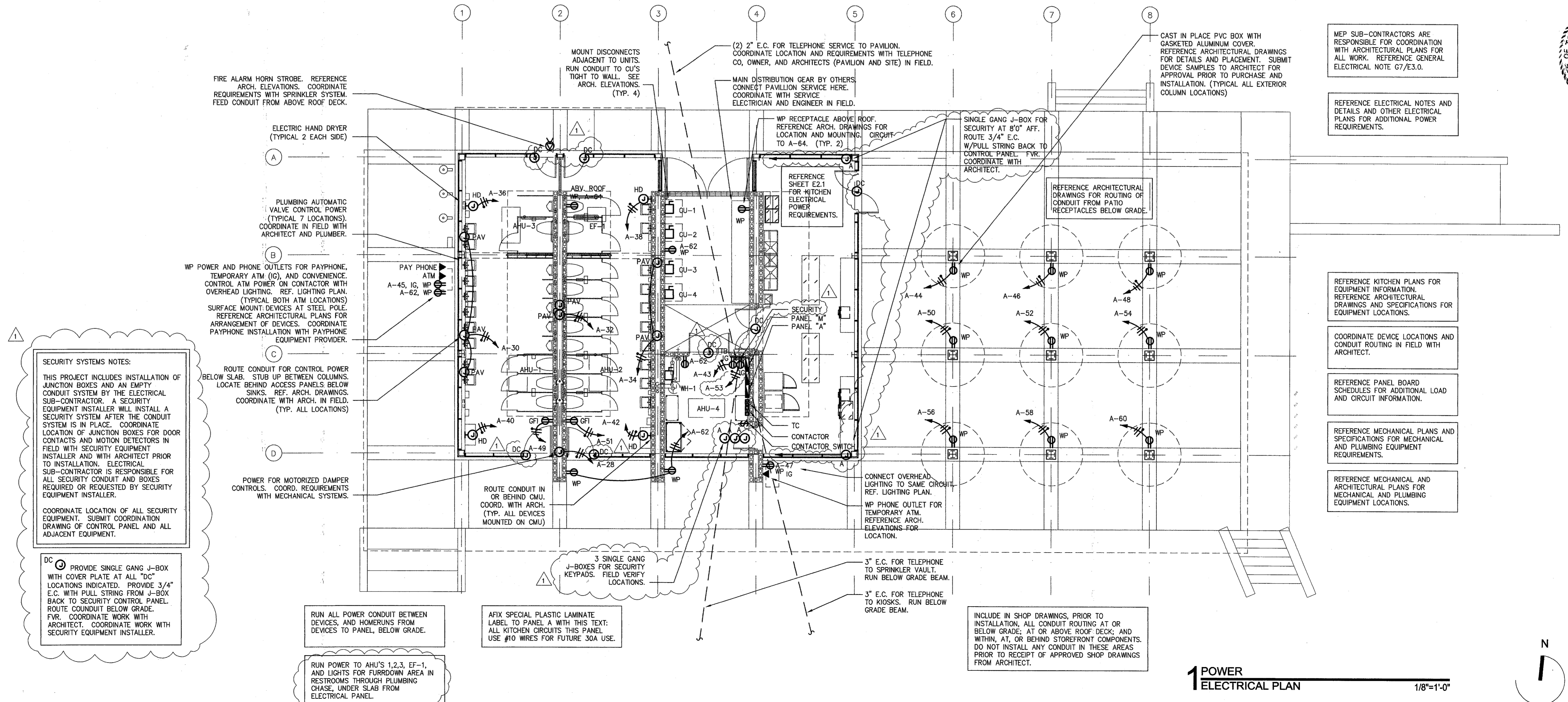


MECHANICAL EQUIPMENT SCHEDULE																			
PLAN MARK	EQUIPMENT DESCRIPTION/CATALOG NO.	LOCATION	MECHANICAL DATA					ELECTRICAL DATA							COMMENTS				
			VOLTS	PHASE	HP	FLA	KW	STARTER	DISCONNECT	MAX DCPI	PANEL SERVED	WIRE	COND						
AHU-1	AHU W/ HEAT FAN HEAT	208	3	1	0.5	2.2	13	36.1	48	M	00	E 1	60	50	50	M	1/3/5	3 #6, 1 #10G	1
AHU-2	AHU W/ HEAT FAN HEAT	208	3	1	0.5	2.2	9	24.1	33	M	00	E 1	60	35	35	M	7/9/11	3 #8, 1 #10G	0.75
AHU-3	AHU W/ HEAT FAN HEAT	208	3	1	0.5	2.2	9	24.1	33	M	00	E 1	60	35	35	M	13/15/17	3 #8, 1 #10G	0.75
AHU-4	AHU W/ HEAT FAN HEAT	208	3	1	0.8	3.1	19	51.9	69	M	00	E 1	100	80	70	M	19/21/23	3 #4, 1 #8G	1.25
CU-1	COMPRESSOR CONDENSER FAN	208	3	1		16.0	0.0		22	M		E 1	30	35	30	M	2/4/6	3 #10, 1 #10G	0.75
CU-2	COMPRESSOR CONDENSER FAN	208	3	1		11.0	0.0		15	M		E 1	30	25	20	M	8/10/12	3 #12, 1 #10G	0.5
CU-3	COMPRESSOR CONDENSER FAN	208	3	1		11.0	0.0		15	M		E 1	30	25	20	M	14/16/18	3 #12, 1 #10G	0.5
CU-4	COMPRESSOR CONDENSER FAN	208	3	1		19.0	0.0		26	M		E 1	60	40	35	M	20/22/24	3 #10, 1 #10G	0.75
EF-1	MOTOR	120	1	0.8	13.2				17	E	M	E 1	30	30	20	A	67	2 #12, 1 #10G	0.5
WH-1	WATER HEATER	STORAGE	208	3	1	18	50.0	62		E	1		70	70		M	25/27/29	3 #4, 1 #8G	1.25

JOB NAME: PAVILION - LOCATION: ADDISON - JOB NUMBER: 02098 - MECHANICAL ENGINEER: MBP - ELECTRICAL: WMS - FILE NAME: 02098MCS.W01 22-Dec-2002



2 ATM LIGHTING AND POWER WIRING DIAGRAM N.T.S.



**SECURITY SYSTEMS NOTES:**  
 THIS PROJECT INCLUDES INSTALLATION OF JUNCTION BOXES AND AN EMPTY CONDUIT SYSTEM BY THE ELECTRICAL SUB-CONTRACTOR. A SECURITY EQUIPMENT INSTALLER WILL INSTALL A SECURITY SYSTEM AFTER THE CONDUIT SYSTEM IS IN PLACE. COORDINATE LOCATION OF JUNCTION BOXES FOR DOOR CONTACTS AND MOTION DETECTORS IN FIELD WITH SECURITY EQUIPMENT INSTALLER AND WITH ARCHITECT PRIOR TO INSTALLATION. ELECTRICAL SUB-CONTRACTOR IS RESPONSIBLE FOR ALL SECURITY CONDUIT AND BOXES REQUIRED OR REQUESTED BY SECURITY EQUIPMENT INSTALLER.  
 COORDINATE LOCATION OF ALL SECURITY EQUIPMENT. SUBMIT COORDINATION DRAWING OF CONTROL PANEL AND ALL ADJACENT EQUIPMENT.

DC PROVIDE SINGLE GANG J-BOX WITH COVER PLATE AT ALL "DC" LOCATIONS INDICATED. PROVIDE 3/4" E.C. WITH PULL STRING FROM J-BOX BACK TO SECURITY CONTROL PANEL. ROUTE CONDUIT BELOW GRADE. F.V.R. COORDINATE WORK WITH SECURITY EQUIPMENT INSTALLER.

RUN ALL POWER CONDUIT BETWEEN DEVICES, AND HOMERUNS FROM DEVICES TO PANEL, BELOW GRADE.  
 RUN POWER TO AHU'S 1,2,3, EF-1, AND LIGHTS FOR FURROWDOWN AREA IN RESTROOMS THROUGH PLUMBING CHASE, UNDER SLAB FROM ELECTRICAL PANEL.

AFIX SPECIAL PLASTIC LAMINATE LABEL TO PANEL A WITH THIS TEXT: ALL KITCHEN CIRCUITS THIS PANEL USE #10 WIRES FOR FUTURE 30A USE.

INCLUDE IN SHOP DRAWINGS, PRIOR TO INSTALLATION, ALL CONDUIT ROUTING AT OR BELOW GRADE; AT OR ABOVE ROOF DECK; AND WITHIN, AT, OR BEHIND STOREFRONT COMPONENTS. DO NOT INSTALL ANY CONDUIT IN THESE AREAS PRIOR TO RECEIPT OF APPROVED SHOP DRAWINGS FROM ARCHITECT.

MEP SUB-CONTRACTORS ARE RESPONSIBLE FOR COORDINATION WITH ARCHITECTURAL PLANS FOR ALL WORK. REFERENCE GENERAL ELECTRICAL NOTE G7/E3.0.

REFERENCE ELECTRICAL NOTES AND DETAILS AND OTHER ELECTRICAL PLANS FOR ADDITIONAL POWER REQUIREMENTS.

REFERENCE KITCHEN PLANS FOR EQUIPMENT INFORMATION. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT LOCATIONS.

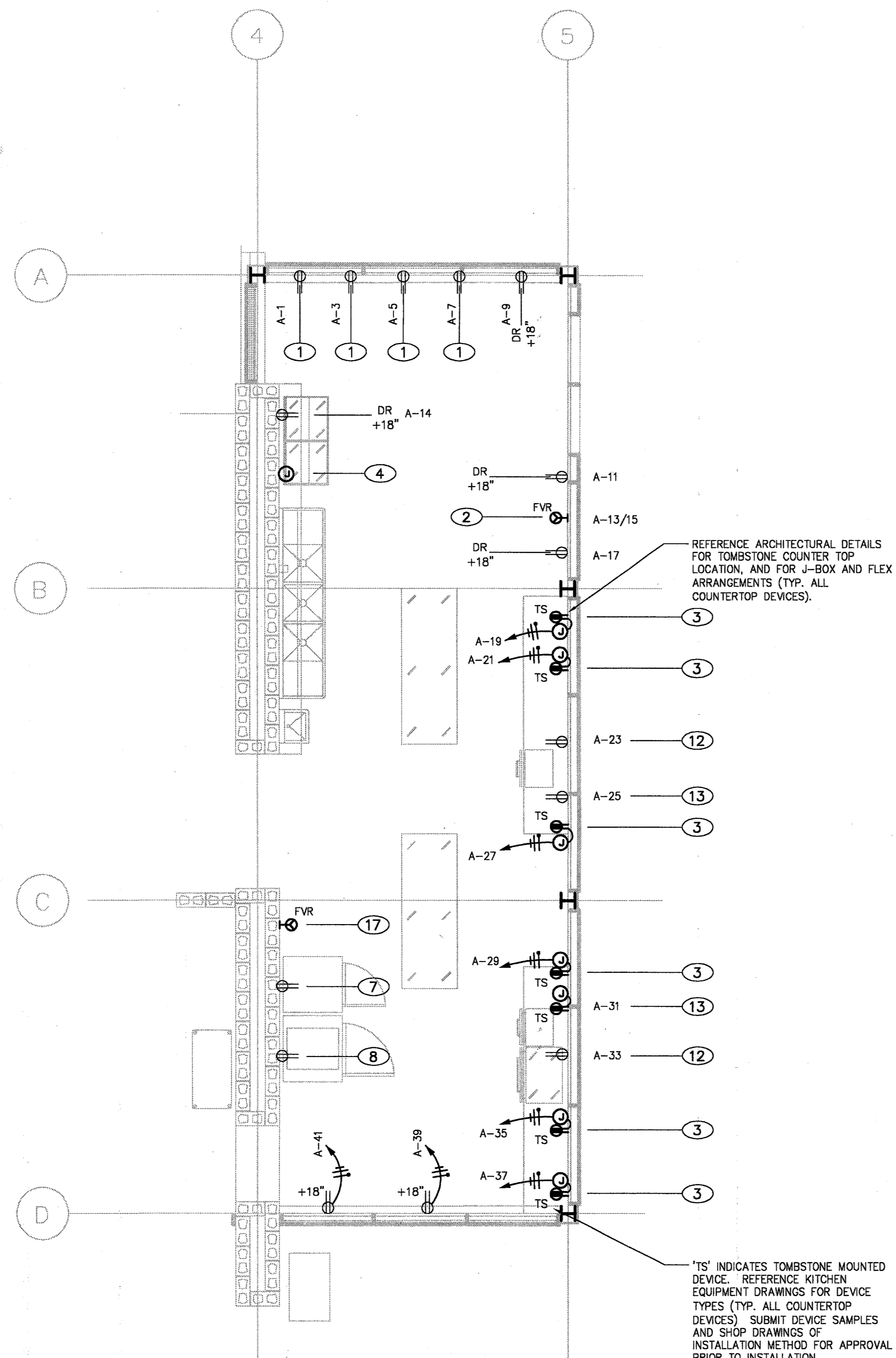
COORDINATE DEVICE LOCATIONS AND CONDUIT ROUTING IN FIELD WITH ARCHITECT.

REFERENCE PANEL BOARD SCHEDULES FOR ADDITIONAL LOAD AND CIRCUIT INFORMATION.

REFERENCE MECHANICAL PLANS AND SPECIFICATIONS FOR MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS.

REFERENCE MECHANICAL AND ARCHITECTURAL PLANS FOR MECHANICAL AND PLUMBING EQUIPMENT LOCATIONS.





**1 KITCHEN POWER ELECTRICAL PLAN**  
1/4"=1'-0"

\*TS\* INDICATES TOMBSTONE MOUNTED DEVICE. REFERENCE KITCHEN EQUIPMENT DRAWINGS FOR DEVICE TYPES (TYP. ALL COUNTERTOP DEVICES). SUBMIT DEVICE SAMPLES AND SHOP DRAWINGS OF INSTALLATION METHOD FOR APPROVAL PRIOR TO INSTALLATION.

- MEP SUB-CONTRACTORS ARE RESPONSIBLE FOR COORDINATION WITH ARCHITECTURAL PLANS FOR ALL WORK. REFERENCE GENERAL ELECTRICAL NOTE G7/E3.0.
- REFERENCE ELECTRICAL NOTES AND DETAILS AND OTHER ELECTRICAL PLANS FOR ADDITIONAL POWER REQUIREMENTS.
- REFERENCE KITCHEN PLANS FOR EQUIPMENT INFORMATION. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT LOCATIONS.
- COORDINATE DEVICE LOCATIONS IN FIELD WITH ARCHITECT.
- REFERENCE PANEL BOARD SCHEDULES FOR ADDITIONAL LOAD AND CIRCUIT INFORMATION.
- REFERENCE MECHANICAL PLANS AND SPECIFICATIONS FOR MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS.
- REFERENCE MECHANICAL AND ARCHITECTURAL PLANS FOR MECHANICAL AND PLUMBING EQUIPMENT LOCATIONS.

KITCHEN EQUIPMENT SCHEDULE																	
PLAN MARK	EQUIPMENT DESCRIPTION/CATALOG NO.	LOCATION	MECHANICAL DATA						ELECTRICAL DATA						COND. DIAM. INCHES	NOTES COMMENTS	
			VOLTS	PHASE	HP	RLA FLA	HEAT KW	AMPS MCA	DEVICE TYPE	HEIGHT	MAX DCPD BRKR	PANEL SERVED FROM	CIRCUIT	WIRES			
1	WARMER	KITCHEN	120	1		16.0	2	16.0	20	5-20R	18"	20	A	1	2 #10, 1 #10G	10.75	
1	WARMER	KITCHEN	120	1		16.0	2	16.0	20	5-20R	18"	20	A	3	2 #10, 1 #10G	10.75	
1	WARMER	KITCHEN	120	1		16.0	2	16.0	20	5-20R	18"	20	A	5	2 #10, 1 #10G	10.75	
1	WARMER	KITCHEN	120	1		16.0	2	16.0	20	5-20R	18"	20	A	7	2 #10, 1 #10G	10.75	
1	KITCHEN DUPLEX	KITCHEN	120	1		10.0	1	10.0	13	5-20R	18"	20	A	9	2 #10, 1 #10G	10.75	
1	KITCHEN DUPLEX	KITCHEN	120	1		10.0	1	10.0	13	5-20R	18"	20	A	11	2 #10, 1 #10G	10.75	
2	STEAMER	KITCHEN	208	1		14.4	3	14.4	18	FVR	18"	20	A	13/15	2 #10, 1 #10G	10.75	FVR
1	KITCHEN DUPLEX	KITCHEN	120	1		10.0	1	10.0	13	5-20R	18"	20	A	17	2 #10, 1 #10G	10.75	
3	KITCHEN DUPLEX	KITCHEN	120	1		10.0	1	10.0	13	5-20R	34"	20	A	19	2 #10, 1 #10G	10.75	BTC
3	KITCHEN DUPLEX	KITCHEN	120	1		10.0	1	10.0	13	5-20R	34"	20	A	21	2 #10, 1 #10G	10.75	BTC
12	ROLL WARMER	KITCHEN	120	1		7.5	1	7.5	9	5-20R	18"	20	A	23	2 #10, 1 #10G	10.75	
13	CASH DRAWER	KITCHEN	120	1		5.0	1	5.0	6	5-20R	24"	20	A	25	2 #10, 1 #10G	10.75	BTC
1	KITCHEN DUPLEX	KITCHEN	120	1		10.0	1	10.0	13	5-20R	34"	20	A	27	2 #10, 1 #10G	10.75	BTC
3	KITCHEN DUPLEX	KITCHEN	120	1		10.0	1	10.0	13	5-20R	34"	20	A	29	2 #10, 1 #10G	10.75	BTC
13	CASH DRAWER	KITCHEN	120	1		5.0	1	5.0	6	5-20R	24"	20	A	31	2 #10, 1 #10G	10.75	BTC
12	ROLL WARMER	KITCHEN	120	1		7.5	1	7.5	9	5-20R	18"	20	A	33	2 #10, 1 #10G	10.75	ALT. LOC.
3	KITCHEN DUPLEX	KITCHEN	120	1		10.0	1	10.0	13	5-20R	34"	20	A	35	2 #10, 1 #10G	10.75	BTC
1	KITCHEN DUPLEX	KITCHEN	120	1		10.0	1	10.0	13	5-20R	18"	20	A	39	2 #10, 1 #10G	10.75	
1	KITCHEN DUPLEX	KITCHEN	120	1		10.0	1	10.0	13	5-20R	18"	20	A	41	2 #10, 1 #10G	10.75	
8	WALKIN REFER	KITCHEN	120	1		10.6	1	10.6	13	5-20R	87"	20	A	2	2 #10, 1 #10G	10.75	
7	ROLL IN REFER	KITCHEN	120	1		8.0	1	8.0	10	5-20R	87"	20	A	4	2 #10, 1 #10G	10.75	
17	COFFEE	KITCHEN	208	1		29.0	6	29.0	36	1L6-40R	24"	40	A	6/8	4 #8, 1 #10G	10.75	FVR
4	ICE MAKER	KITCHEN	208	1		11.0	2	11.0	14	J-BOX	60"	20	A	10/12	4 #10, 1 #10G	10.75	BTC
1	KITCHEN DUPLEX	KITCHEN	120	1		10.0	1	10.0	13	5-20R	18"	20	A	14	2 #10, 1 #10G	10.75	

JOB NAME: PAVILION - LOCATION: ADDISON - JOB NUMBER: Q209B - MECHANICAL ENGINEER: MBP - ELECTRICAL: WMS - FILE NAME: Q209B.ECS.WDI - 22-Jan-2003

date  
06/26/02  
10/31/02  
01/23/03

issue  
DD 50% CD  
95% CD

N  
E2.1  
KITCHEN ELECTRICAL

**cunningham architects**

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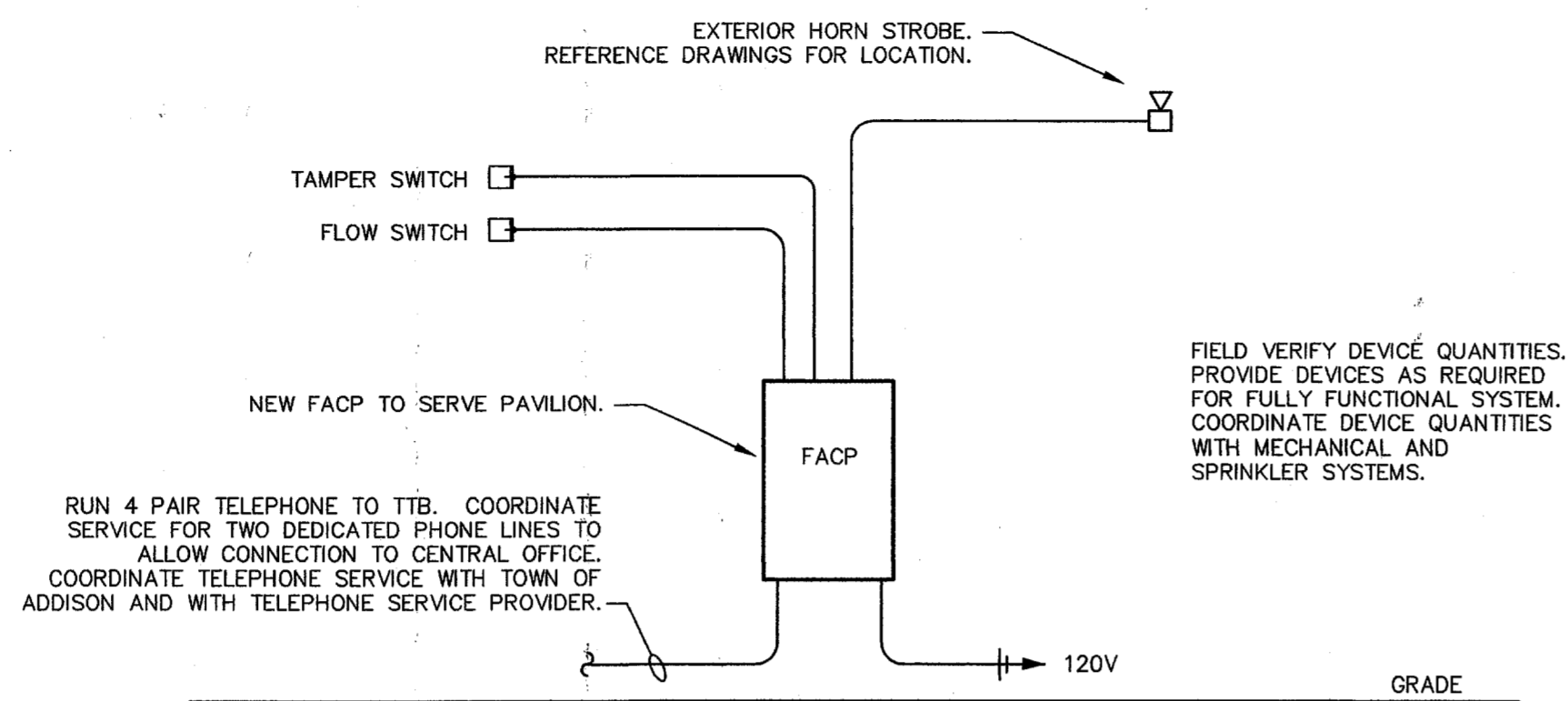
MEP CONSULTING SERVICES  
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MEP SYSTEMS DESIGN AND ENGINEERING, INC.

**Addison Arts and Events Pavilion**  
Addison, Texas







**FIRE ALARM RISER DIAGRAM**

**PANELBOARD 'A' SCHEDULE**

BRANCH CIRCUIT DESCRIPTION	I/POLES/ /AMPS	VOLT L	VOLT D	L VOLT L	L VOLT D	DI/CIRCUIT	I/POLES/ /AMPS	VOLT L	VOLT D	L VOLT L	L VOLT D	DI/CIRCUIT	BRANCH CIRCUIT DESCRIPTION	I/POLES/ /AMPS	
1 WARMER	1 / 20	1920 K					11 A 21						1272 K11 / 20	WALK IN REFER	2
3 WARMER	1 / 20	1920 K					13 B 41						960 K11 / 20	ROLL IN REFER	4
5 WARMER	1 / 20	1920 K					15 C 61						3016 K12 / 40	COFFEE	6
7 WARMER	1 / 20	1920 K					17 A 81						3016 K1 / 40		8
9 KITCHEN CD	1 / 20	1000 K					19 B 101						1144 K12 / 20	ICE MAKER	10
111 KITCHEN CD	1 / 20	1000 K					111 C 121						1144 K1 / 20		12
131 STEAMER	12 / 20	1498 K					121 B 221						1000 K11 / 20	KITCHEN DUPLEX	14
151	1 / 20	1498 K					115 B 161								16
171 KITCHEN CD	1 / 20	1000 K					117 C 181								18
191 KITCHEN CD	1 / 20	1000 K					119 A 201								20
211 KITCHEN CD	1 / 20	1000 K					121 B 221								22
231 KITCHEN CD	1 / 20	900 K					123 C 241								24
251 KITCHEN CD	1 / 20	600 K					125 A 261								26
271 KITCHEN CD	1 / 20	1000 K					127 B 281						200 D11 / 20	MOTORIZED DAMPERS	28
291 KITCHEN CD	1 / 20	1000 K					129 C 301						1200 D11 / 20	AUTOMATIC VALVES	30
311 KITCHEN CD	1 / 20	600 K					131 A 321								32
331 KITCHEN CD	1 / 20	900 K					133 B 341						1200 D11 / 20	AUTOMATIC VALVES	34
351 KITCHEN CD	1 / 20	1000 K					135 C 361						1900 D11 / 20	HAND DRYER	36
371 KITCHEN CD	1 / 20	1000 K					137 A 381						1900 D11 / 20	HAND DRYER	38
391 KITCHEN CD	1 / 20	1000 K					139 B 401						1900 D11 / 20	HAND DRYER	40
411 KITCHEN CD	1 / 20	1000 K					141 C 421						1900 D11 / 20	HAND DRYER	42
431 CD IG TTB	1 / 20		400 R				143 A 441						200 R	1 / 20 + EXTERIOR CD	44
451 CD IG ATM	1 / 20		400 R				145 B 461						200 R	1 / 20 + EXTERIOR CD	46
471 CD IG ATM	1 / 20		400 R				147 C 481						200 R	1 / 20 + EXTERIOR CD	48
491 CD TOILET GF1	1 / 20		400 R				149 A 501						200 R	1 / 20 + EXTERIOR CD	50
511 CD TOILET GF1	1 / 20		400 R				151 B 521						200 R	1 / 20 + EXTERIOR CD	52
531 SEC. CD IG	1 / 20		400 R				153 C 541						200 R	1 / 20 + EXTERIOR CD	54
551	1 / 20						155 A 561						200 R	1 / 20 + EXTERIOR CD	56
571	1 / 20						157 B 581						200 R	1 / 20 + EXTERIOR CD	58
591	1 / 20						159 C 601						200 R	1 / 20 + EXTERIOR CD	60
611	1 / 20						161 A 621						1000 R	1 / 20 + EXTERIOR CD	62
631	1 / 20						163 B 641						400 R	1 / 20 + EXTERIOR CD	64
651	1 / 20						165 C 661								66
671 EXH FAN	1 / 20						1587 M167 A 681								68
691	1 / 20						169 B 701								70
711	1 / 20						171 C 721								72
731 18A	1 / 20		990 E				173 A 741								74
751 5C1 5C 10L1	1 / 20					1430 L	175 B 761								76
771 8L1 6K	1 / 20					800 L	177 C 781								78
791 8L1 6K	1 / 20					800 L	179 A 801								80
811 1A-1 8L 4L1	1 / 20		1006 E			260 L	181 B 821								82
831 20L	1 / 20		2000 E			260 L	183 C 841								84

**PANELBOARD 'M' SCHEDULE**

BRANCH CIRCUIT DESCRIPTION	I/POLES/ /AMPS	VOLT L	VOLT D	L VOLT L	L VOLT D	DI/CIRCUIT	I/POLES/ /AMPS	VOLT L	VOLT D	L VOLT L	L VOLT D	DI/CIRCUIT	BRANCH CIRCUIT DESCRIPTION	I/POLES/ /AMPS		
1 AHU-1	13 / 50						264 M	4333 H11 A 21					228 M	1920 M13 / 35	CU-1	2
3							264 M	4333 H13 B 41					228 M	1920 M13 / 35		4
5							264 M	4333 H15 C 61					228 M	1920 M13 / 35		6
7 AHU-2	13 / 50						264 M	2900 H17 A 81					192 M	1320 M13 / 25	CU-2	8
9							264 M	2900 H19 B 01					192 M	1320 M13 / 25		10
11							264 M	2900 H111 C 121					192 M	1320 M13 / 25		12
13 AHU-3	13 / 35						264 M	2900 H113 A 141					192 M	1320 M13 / 25	CU-3	14
151							264 M	2900 H115 B 161					192 M	1320 M13 / 25		16
171							264 M	2900 H117 C 181					192 M	1320 M13 / 25		18
191 AHU-4	13 / 35						372 M	6233 H119 A 201					228 M	2280 M13 / 40	CU-4	20
211							372 M	6233 H121 B 221					228 M	2280 M13 / 40		22
231							372 M	6233 H123 C 241					228 M	2280 M13 / 40		24
251 WH	13 / 70						6000 W						125 A 251		26	
271							6000 W						27 B 281		28	
291							6000 W						129 C 301		30	
311													131 A 321		32	
331													133 B 341		34	
351													135 C 361		36	
371													137 A 381		38	
391													139 B 401		40	
411													141 C 421		42	

**LOAD SUMMARY**

NON-ICDN_KVA	ICDN_KVA	ICDN_AMPS	ICWSPSF	DIV_FAC	DES_KVA	DES_AMPS	D_WSPSF	PANEL 'M' FILE INFORMATION
3.3	9.1	1.3	1.25	5.0	13.9	2.0	1.7	JOB NUMBER: 2098
0.0	0.0	0.0	1.25	0.0	0.0	0.0	0.0	JOB NAME: PAVILLION
4.0	11.1	1.6	1.25	5.0	13.9	2.0	1.7	LOCATION: ADDISON
5.2	14.4	2.1	1.00	5.2	14.4	2.1	1.00	SQUARE FT: 2500
0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	LIGHT W/SF: 2 (PER NEC 220)
1.6	4.4	0.6	1.00	1.6	4.4	0.6	1.00	DESIGN BY: WMS
36.2	100.6	14.5	0.65	23.5	65.4	9.4	0.5	INPUT BY: WMS
0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	FILE NO: 2098PA
0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	PRINT HISTORY
0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	DATE: 28-Jun-2003
11.8	32.8	4.7	1.00	11.8	32.8	4.7	1.00	TIME: 09:37:05 PM
0.65	9.4	26.1	1.00	0.65	9.4	26.1	1.00	FORM NUMBER: 2000pa08
0.50	5.2	14.4	2.1	0.50	5.2	14.4	2.1	LAST REVISION: 29-Jun-91
								ORIGINAL FORM: 27-Jun-87
62.1	172.4	24.8	0.65	67.9	188.5	27.2	0.65	TOTAL

**REMARKS**

1. PROVIDE BREAKERS RATED FOR SWITCHING DUTY.	ACTIVE	ISPACE	ISPACE	POLES	AMPS	% DIFFERENCE	3PH. 4W. W/ GROUND BUS
	54	14	10	1	1	1AB: 21.9 %	VOLTAGE: 208Y/120
	2			1	1	20 IBC: 15.0 %	BRACING: 50 K AIC
	1			2	40	2 ICA: 6.9 %	MAINS: MLD
				40			AMPS: 600
							# POLES: 4P
							STATUS: NEW
							TYPE: OMR
							MOUNTED: SURFACE
							LOCATED: STORAGE
							SERVED FROM: MSB
							UPST. DEVICE: SWITCH
							DOWNSTREAM: -

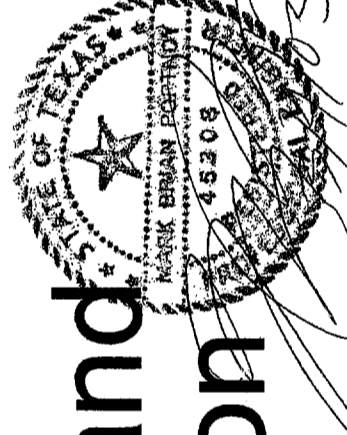
**ELECTRICAL POWER NOTES**

- GENERAL: VERIFY EXACT LOCATION OF OUTLETS AND DEVICES WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE OUTLET BOXES, DEVICES, COVERPLATES, AND FLANGES AS REQUIRED.
- COORDINATION: MOUNT ALL OUTLETS AT 18" AFF UNLESS NOTED OTHERWISE. REFERENCE ARCHITECT'S DRAWINGS, PLANS, AND ELEVATIONS FOR ALL HEIGHTS, DIMENSIONS, AND CONFIGURATIONS OF DEVICES NOT INDICATED ON THESE DRAWINGS. REFERENCE SAME DRAWINGS FOR EQUIPMENT NOT IDENTIFIED.
- TELECOMM & TECHNOLOGY: FURNISH AND INSTALL MIN. 3/4" CONDUIT AND PULL STRINGS FROM EACH TELEPHONE/DATA OUTLET TO TELEPHONE BACKBOARD OR TO 6" ABOVE CEILING WHEN USING PLENUM RATED CABLE. VERIFY ALL TELEPHONE AND DATA LINE QUANTITIES, LOCATIONS, AND CABLE REQUIREMENTS WITH ARCHITECT. VERIFY EXACT REQUIREMENTS WITH TELEPHONE AND TECHNOLOGY EQUIPMENT SUPPLIERS AND INSTALLERS. FURNISH AND INSTALL MATERIALS NOT PROVIDED BY TELEPHONE OR TECHNOLOGY CONTRACTORS.
- RECEPTACLES: ALL DUPLEX RECEPTACLES ARE TO BE NEMA 5-20R SPECIFICATION GRADE, LEVITON DECORA (OR APPROVED EQUAL) WITH THE FOLLOWING CHARACTERISTICS:  
 GENERAL PURPOSE: GREY NYLON FACE WITH STAINLESS STEEL FACEPLATE  
 ISOLATED GROUND: ORANGE NYLON FACE WITH STAINLESS STEEL FACEPLATE  
 GROUND FAULT: GREY NYLON FACE WITH RED TEST AND BLACK REST BUTTONS WITH STAINLESS STEEL FACEPLATE  
 DATA/TELECOMM: GREY NYLON LEVITON DECORA STATION JACKS ON SEPARATE YOKE, PORTS AS INDICATED, WITH STAINLESS STEEL FACEPLATE  
 COORDINATE RECEPTACLE, DATA, AND SWITCH DEVICES BY MANUFACTURER, TYPE, STYLE, AND COLOR, TO THE EXTENT POSSIBLE WITH THE INDICATED MANUFACTURER'S LINES.  
 VERIFY ALL DEVICE TYPES, COLORS, AND CONFIGURATIONS WITH ARCHITECT. SUBMIT SAMPLES OF FINAL SELECTION TO ARCHITECT FOR FINAL APPROVAL PRIOR TO PURCHASE AND INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY REQUIRE REMOVAL AND REPLACEMENT OF DEVICES, WHICH, IF REQUESTED BY ARCHITECT, WILL BE AT CONTRACTOR'S EXPENSE.  
 ALL ISOLATED GROUND DEVICES (IG), GROUND FAULT INTERRUPT (GFI) DEVICES, AND TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) DEVICES SHALL BE RATED 20 AMPERES AND SHALL HAVE AN INSULATED GREEN GROUND WIRE. THE GROUND WIRE SHALL BE RUN CONTINUOUS AND UNSPLICED BETWEEN DEVICE AND PANEL GROUND BUS.
- GROUNDS: RUN ALL CIRCUITS WITH A #12 AWG GREEN INSULATED COPPER GROUND WIRE UNLESS OTHER WIRE SIZE IS NOTED. USE OF CONDUIT AS A GROUND IS UNACCEPTABLE. PROVIDE BONDING JUMPER BETWEEN GROUND BUS AND NEUTRAL BUS AT SERVICE EQUIPMENT. PROVIDE GROUNDING ELECTRODE CONDUCTORS AND GROUNDING ELECTRODES PER NEC ARTICLE 250. PROVIDE GROUND TO BUILDING STEEL PER NEC. PROVIDE GROUNDING CONDUCTORS FROM ALL TRANSFORMERS AND OTHER SEPARATELY DERIVED SYSTEMS. PROVIDE GROUND LUG WITH A #6 AWG COPPER GROUND WIRE TO BUILDING STEEL, OR AS DIRECTED BY TELEPHONE EQUIPMENT SUPPLIER AND TELEPHONE UTILITY COMPANY FOR ALL TELEPHONE/TECHNOLOGY EQUIPMENT BOARDS. REFERENCE DATA REQUIREMENTS AND COORDINATE ELECTRICAL, TELECOMM, AND TECHNOLOGY CONTRACTORS FOR LOCATIONS AND INSTALLATION OF EQUIPMENT AND OTHER GROUNDING REQUIREMENTS.
- LANDLORD REQUIREMENTS: BECOME FAMILIAR WITH ALL OF LANDLORD'S SPECIFICATIONS, DESIGN CRITERIA, BUILDING STANDARDS, AND EQUIPMENT REQUIREMENTS PRIOR TO ANY EQUIPMENT PURCHASE OR INSTALLATION. ALL OF LANDLORD'S CRITERIA AND SPECIFICATIONS ARE TO BE FOLLOWED.
- ELECTRICAL EQUIPMENT EXPOSED TO THE WEATHER SHALL BE WEATHERPROOF (NEMA 3R).
- TEMPORARY POWER: FURNISH TEMPORARY ELECTRICAL SERVICE AS REQUIRED. ALL TEMPORARY WIRING IS TO BE REMOVED BY CONTRACTOR WHEN PERMANENT SERVICE IS AVAILABLE. COORDINATE SERVICE WITH ELECTRICAL UTILITY COMPANY.
- WHEN NOT FURNISHED BY OTHER TRADES, PROVIDE APPROPRIATE STARTERS, DISCONNECTS, MANUAL MOTOR SWITCHES, AND OVERCURRENT PROTECTION DEVICES FOR ALL MOTORS AND HVAC EQUIP. COORDINATE WITH MECHANICAL CONTRACTOR DURING BIDDING PROCESS.
- VERIFY HVAC EQUIPMENT CIRCUITING REQUIREMENTS AND COORDINATED WITH MANUFACTURER'S RECOMMENDATIONS FOR ACTUAL EQUIPMENT INSTALLED. INFORM ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER AS PANELBOARDS. PROVIDE NEW BREAKERS IN EXISTING PANEL(S) AS REQUIRED.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR BALANCING FINAL CONNECTIONS OF ALL PANELBOARDS AND SWITCHBOARDS TO WITHIN 10% BETWEEN PHASES.
- EXTEND OR SHORTEN EXISTING ELECTRICAL AND TELEPHONE CONDUITS AS REQUIRED TO SERVE EQUIPMENT AS INDICATED ON THE PLANS OR DIRECTED BY OWNER. COORDINATE LOCATION OF EQUIPMENT WITH ASSOCIATED TRADES. PROVIDE LABOR AND MATERIALS AS REQUIRED TO PROVIDE COMPLETE AND OPERABLE SYSTEMS. VERIFY THAT ANY CONDUIT AND WIRING TO BE EXTENDED OR EXISTING TO REMAIN IS OF PROPER CODE REQUIRED SIZES. IF SIZES DO NOT COMPLY WITH NEC, REPLACE THE MATERIALS AND NOTIFY THE ENGINEER IMMEDIATELY.

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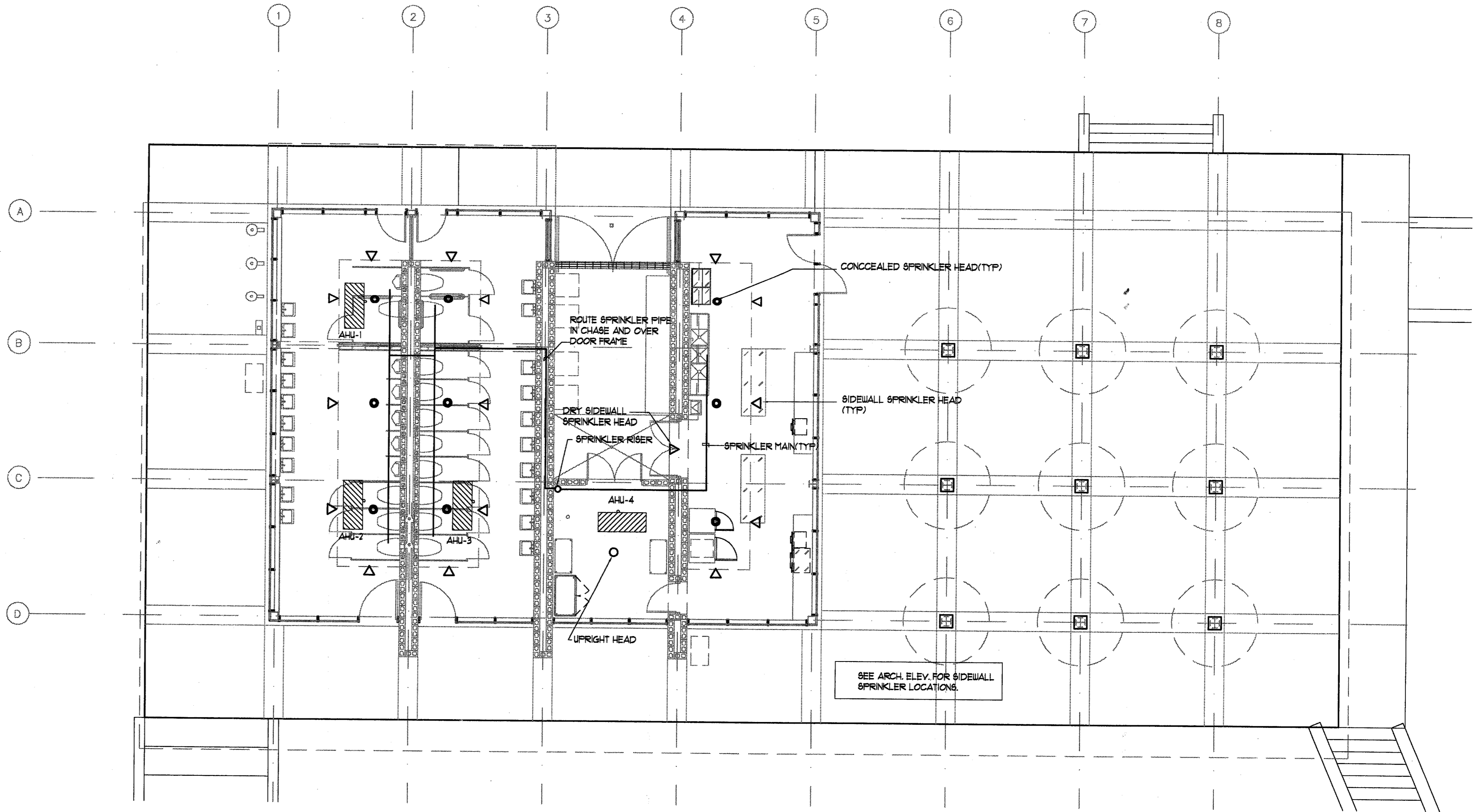
**Addison Arts and Events Pavilion**  
 Addison, Texas

date: 08/26/02  
 07/31/02  
 07/25/03  
 07/31/03

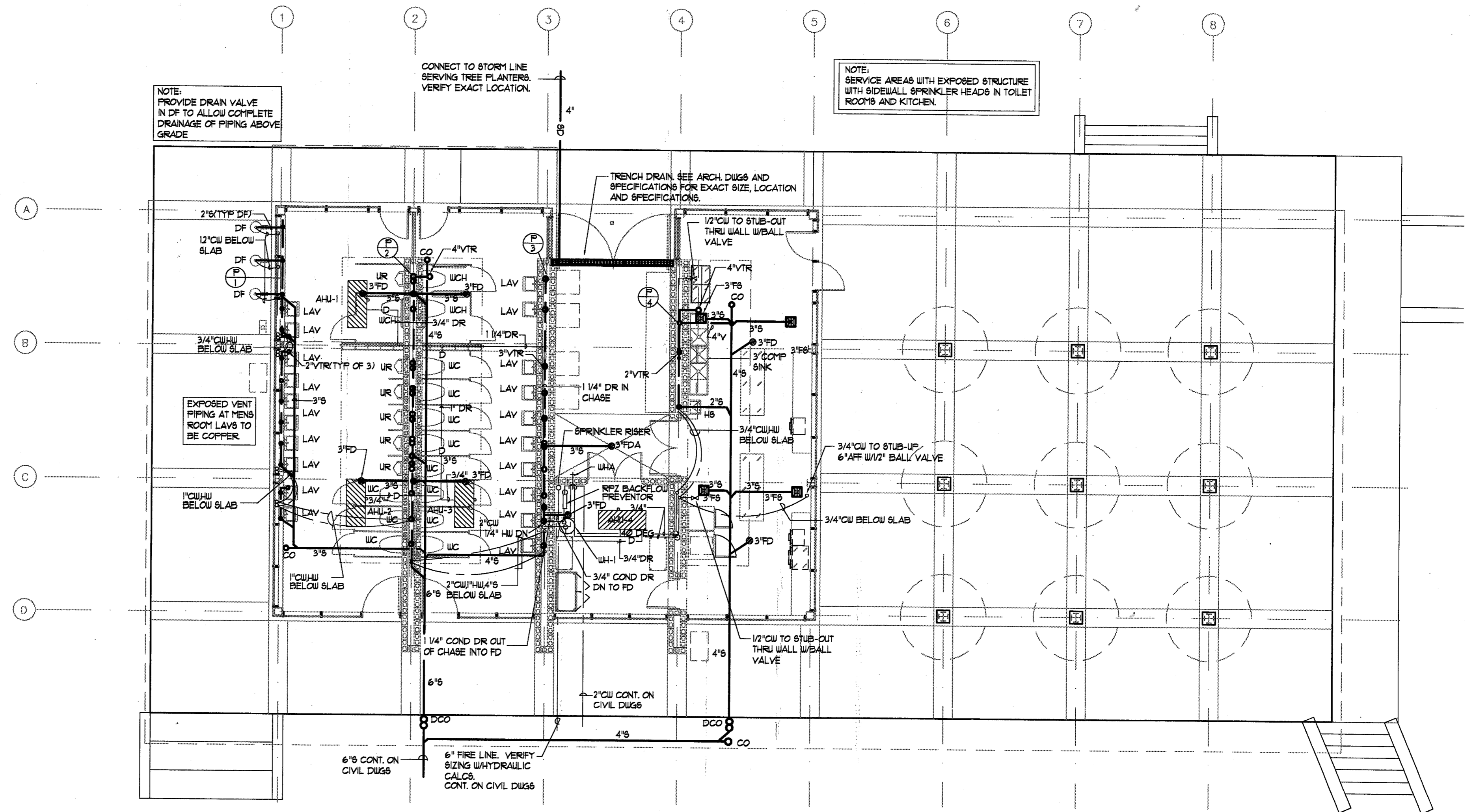
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 95% CD  
 ADDENDUM 1

**E3.1**  
 NOTES  
 SCHEDULES

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**2 SPRINKLER PLAN**  
 PLAN 1/8"=1'-0"



**1 PLUMBING PLAN**  
 PLAN 1/8"=1'-0"

CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES AND ALL ARCHITECTURAL PLANS BEFORE INSTALLATION IS BEGUN. NO ADDED COST WILL BE ALLOWED FOR LACK OF COORDINATION WITH ALL PLANS AND OTHER TRADES.

NOTE: PROVIDE DRAIN VALVE IN DF TO ALLOW COMPLETE DRAINAGE OF PIPING ABOVE GRADE.

CONNECT TO STORM LINE SERVING TREE PLANTERS. VERIFY EXACT LOCATION.

NOTE: SERVICE AREAS WITH EXPOSED STRUCTURE WITH SIDEWALL SPRINKLER HEADS IN TOILET ROOMS AND KITCHEN.



issue	date
DD	08/26/02
50% CD	10/31/02
95% CD	07/23/03