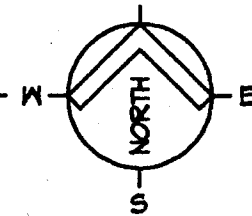


VICINITY MAP - CITY OF HAYWARD



MODERNIZATION AT

HIGHLAND ELEMENTARY SCHOOL

FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

INDEX OF DRAWINGS

ARCHITECTURAL

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MECHANICAL & PLUMBING

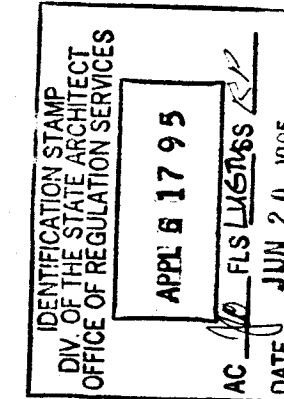
MP-1	MECHANICAL & PLUMBING SITE PLAN, LEGEND & NOTES	16	OF	30
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DEFERRED APPROVAL ITEMS
NONE

APPROVALS

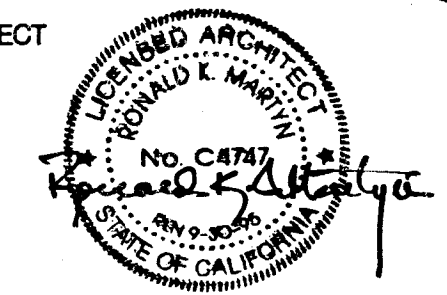


CONSULTANT

MODERNIZATION AT
**HIGHLAND
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FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

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ARCHITECT



NOTE

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AT THE JOB AND SHALL BE RESPONSIBLE FOR ALL DISCREPANCIES BETWEEN DIMENSIONS OF THE ACTUAL WORK AND THOSE SHOWN IN THE DOCUMENTS OR ARCHITECTS' APPROVED SHOP DRAWINGS. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR ALL QUANTITIES OF MATERIALS OR EQUIPMENT CALLED FOR TO PROPERLY COMPLETE THE WORK.

SHEET TITLE

TITLE SHEET,
VICINITY MAP
INDEX OF DRAWINGS

DATE

6/16/95

DRAWING NUMBER

15

FILE NO.

77-15-3

G-1

SHEET 1 OF 30

ASSOCIATED ARCHITECTS - 494 HAWTHORNE AVENUE - OAKLAND, CALIFORNIA 94609 - (510) 428-9448

ABBREVIATIONS

GENERAL NOTES

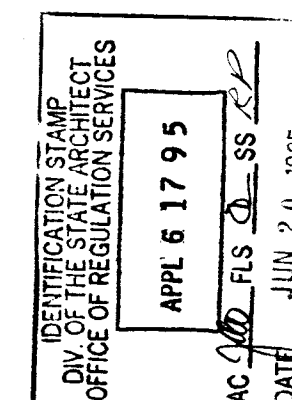
[illegible]

APPLICABLE CODES

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AT THE SITE PRIOR TO CONSTRUCTION.
2. WORK ON THE SITE INCLUDES THE RETENTION OF EXISTING STRUCTURES AND UTILITIES TO REMAIN WHILE NEW CONSTRUCTION IS UNDERWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAINTAINING IN SERVICE ALL UTILITIES TO EXISTING STRUCTURES. SHOULD INTENTIONAL INTERRUPTION OF ANY UTILITY SERVICE BE REQUIRED BY NEW WORK, THE CONTRACTOR IS TO NOTIFY THE OWNER AND ARCHITECT ONE WEEK PRIOR TO INTERRUPTION OF SERVICE. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITY LINES IN CONSTRUCTION AREA AND REROUTE ANY WHICH MAY INTERFERE WITH THE WORK. REPAIR OF ANY BROKEN UTILITY LINES IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE IMPROVEMENTS THAT ARE NOT PART OF THE WORK OR ARE TO BE INCORPORATED INTO THE WORK. PROTECTION SHALL ENCOMPASS, BUT NOT BE LIMITED TO, THE FOLLOWING EXISTING ITEMS: BUILDINGS, TREES, SIDEWALKS, PAVING, CURBS, FENCING AND PLANTED AREAS. ALL DAMAGE RESULTING FROM THE WORK SHALL BE REPAIRED OR REPLACED IN KIND AT NO COST TO THE OWNER.
4. THE INTENT OF THE CONTRACT DOCUMENTS IS TO MODERNIZE (REMODEL) THE EXISTING SCHOOL BUILDINGS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CHANGE ORDER DETAILED AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE OFFICE OF REGULATION SERVICES BEFORE PROCEEDING WITH THE WORK.

1. CALIFORNIA BUILDING CODE, PART 2, TITLE 24 (1991 UNIFORM BUILDING CODE AND CALIFORNIA AMENDMENTS).
2. CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 (1990 NATIONAL ELECTRICAL CODE AND CALIFORNIA AMENDMENTS).
3. CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 (1991 UNIFORM MECHANICAL CODE AND CALIFORNIA AMENDMENTS).
4. CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 (1991 UNIFORM PLUMBING CODE AND CALIFORNIA AMENDMENTS).
5. CALIFORNIA FIRE CODE, PART 9, TITLE 24 (1991 UNIFORM FIRE CODE AND CALIFORNIA AMENDMENTS).
6. CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 (1991 UNIFORM BUILDING CODE STANDARDS AND CALIFORNIA AMENDMENTS).
7. PUBLIC SAFETY, TITLE 19, CALIFORNIA CODE OF REGULATIONS, STATE FIRE MARSHAL REGULATIONS.

APPROVALS

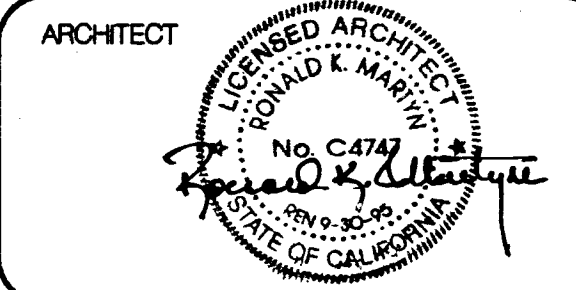


CONSULTANT

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USE OF ASSOCIATED ARCHITECTS' DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS PROVIDED BY THE OWNER FOR THE PROJECT ARE INSTRUMENTS OF ASSOCIATED ARCHITECTS' SERVICES FOR USE SOLELY WITHIN THE PROJECT. THE ASSOCIATED ARCHITECTS HAVE PROVIDED ASSOCIATED ARCHITECTS SHALL BE DEEMED TO HAVE AGREED TO THE FOLLOWING: TO NOT RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT. THE ASSOCIATED ARCHITECTS SHALL PROVIDE TO THE OWNER, INCLUDING REPRODUCIBLE COPIES OF ASSOCIATED ARCHITECTS' DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS FOR INFORMATION AND REFERENCE IN CONNECTION WITH THE OWNERS USE AND OCCUPANCY OF THE PROJECT. THE ASSOCIATED ARCHITECTS SHALL NOT BE USED BY THE OWNERS FOR ANY OTHER PROJECTS OR ADDITIONS TO THE PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHER ASSOCIATED ARCHITECTS. THE ASSOCIATED ARCHITECTS SHALL BE IN DEFAULT UNDER THIS AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ASSOCIATED ARCHITECTS.



NOTE:
THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AT THE JOB AND SHALL BE RESPONSIBLE FOR ALL DISCREPANCIES BETWEEN DIMENSIONS OF THE ACTUAL WORK AND THOSE SHOWN IN THE DOCUMENTS OR ARCHITECTS APPROVED SHOP DRAWINGS. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR ALL QUANTITIES OF MATERIAL OR EQUIPMENT CALLED FOR TO PROPERLY COMPLETE THE WORK.

SHEET TITLE

ABBREVIATIONS,
GENERAL NOTES,
LEGEND

DATE
6/6/01

FILE NO.

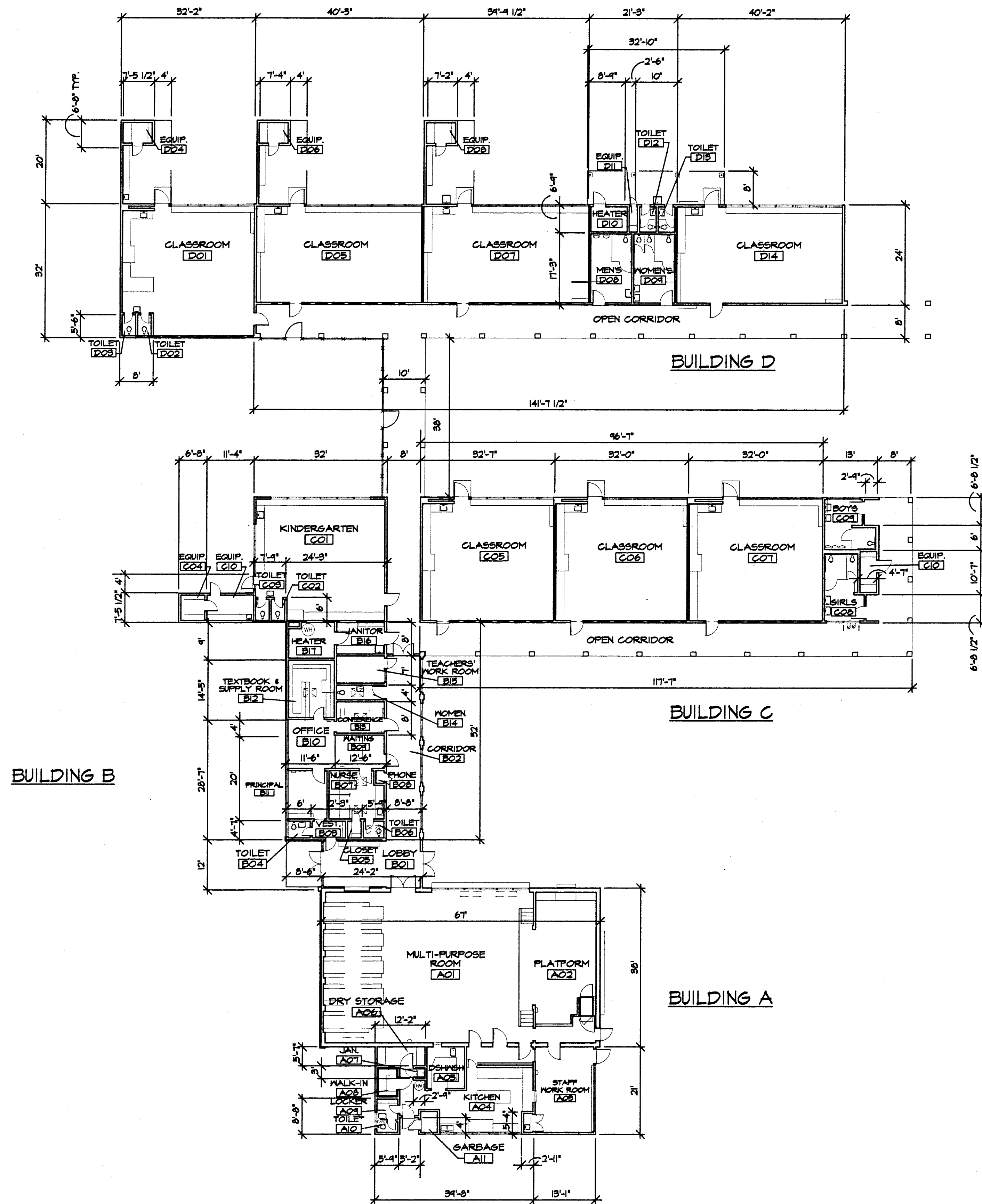
DRAWING NUMBER

15

G-2

SHEET 2 OF 3

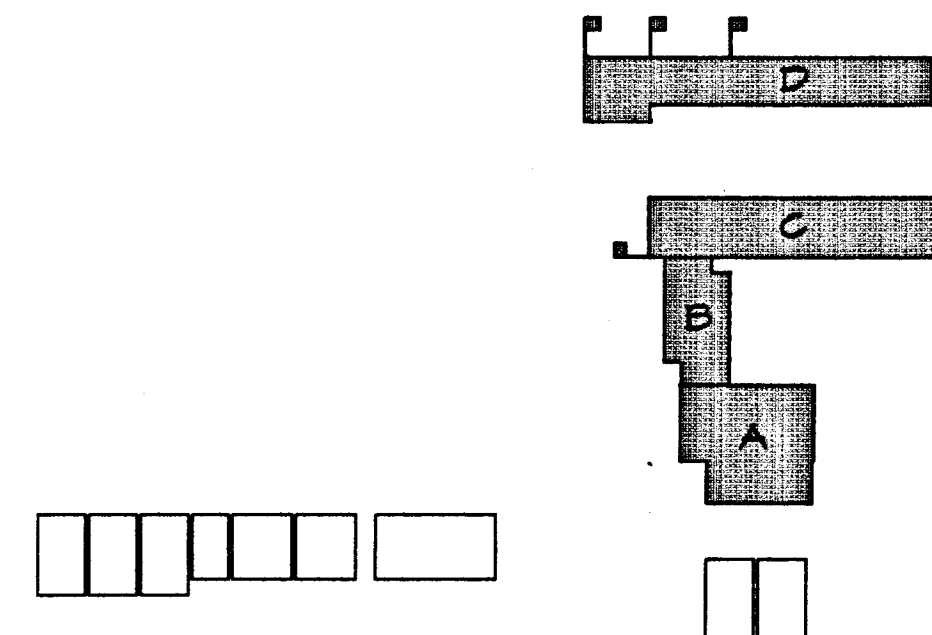
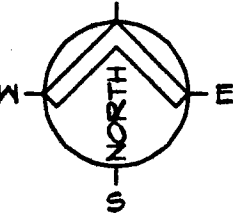




DIMENSIONAL FLOOR PLAN

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

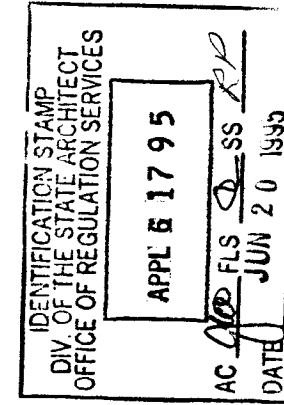
NOTE
DIMENSIONS SHOWN ARE TAKEN FROM THE ORIGINAL CONTRACT DOCUMENTS.
ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.



KEY PLAN

- LEGEND
- (E) BUILDING WITHIN SCOPE OF WORK.
PLANS SHOWN ON THIS DRAWING.
 - (F) BUILDING OUTSIDE SCOPE OF WORK.
DOES NOT QUALIFY FOR MODERNIZATION.

APPROVALS

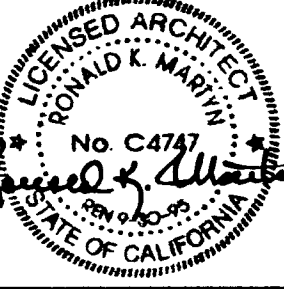


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ARCHITECT



NOTE
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SHEET TITLE

DIMENSIONAL FLOOR PLAN

DATE

6/16/95

FILE NO.

77-15-3

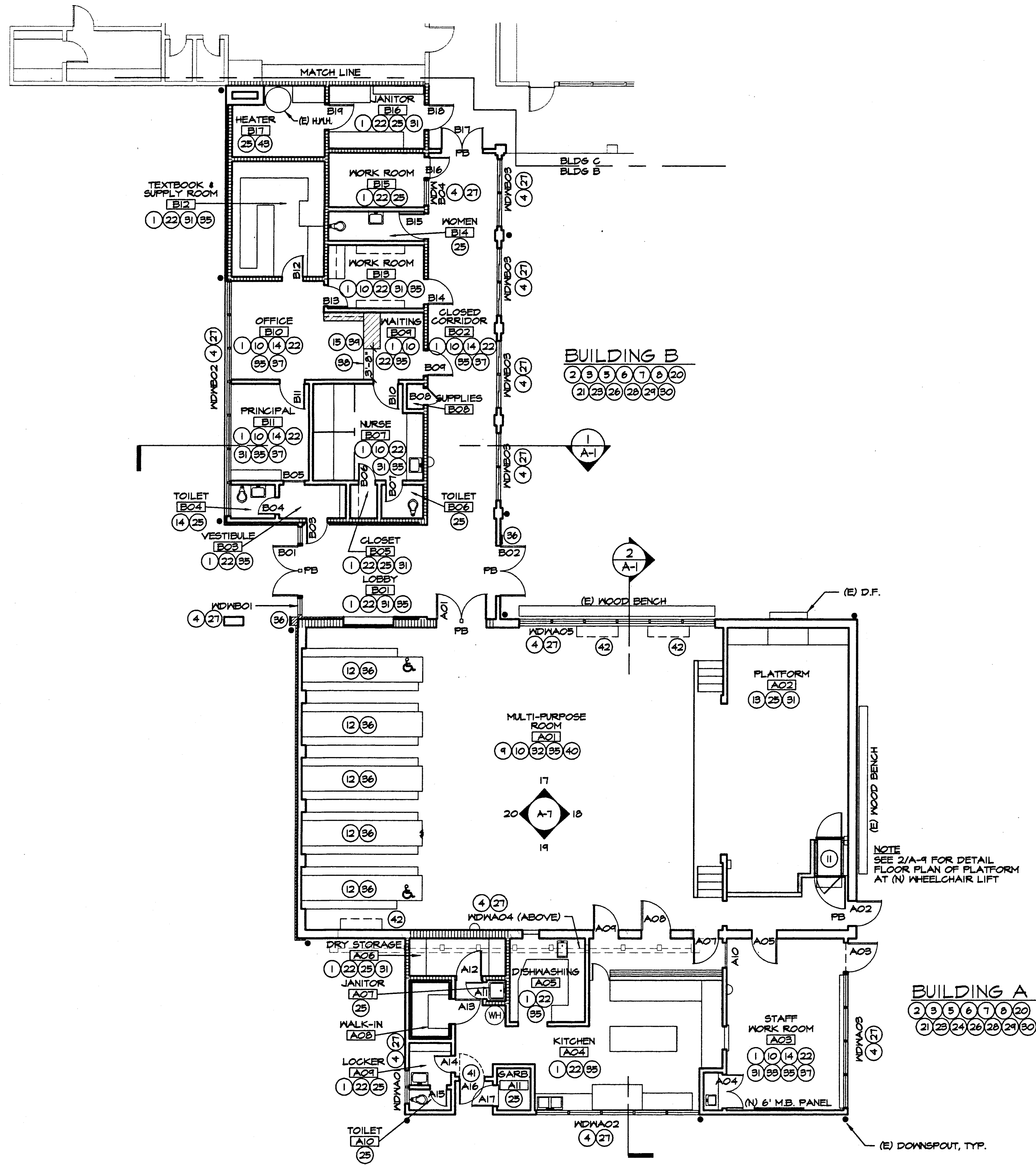
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15

GA-1

SHEET 4 OF 20

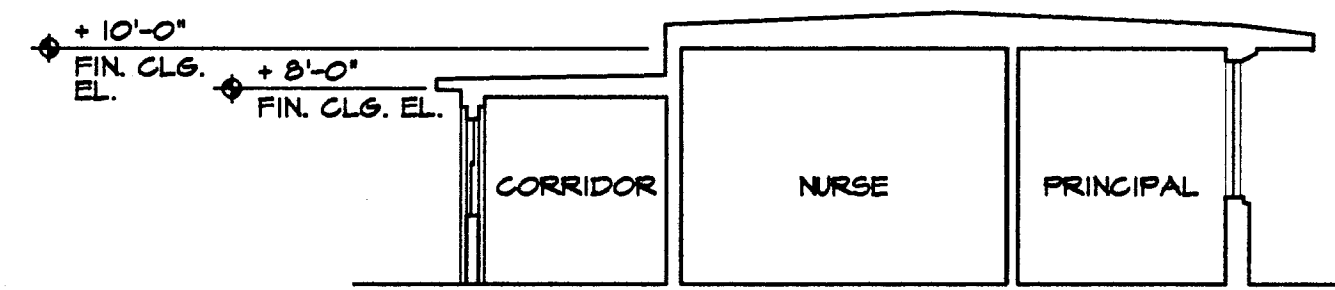
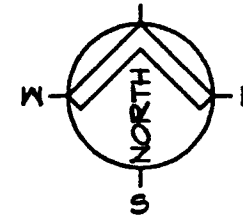
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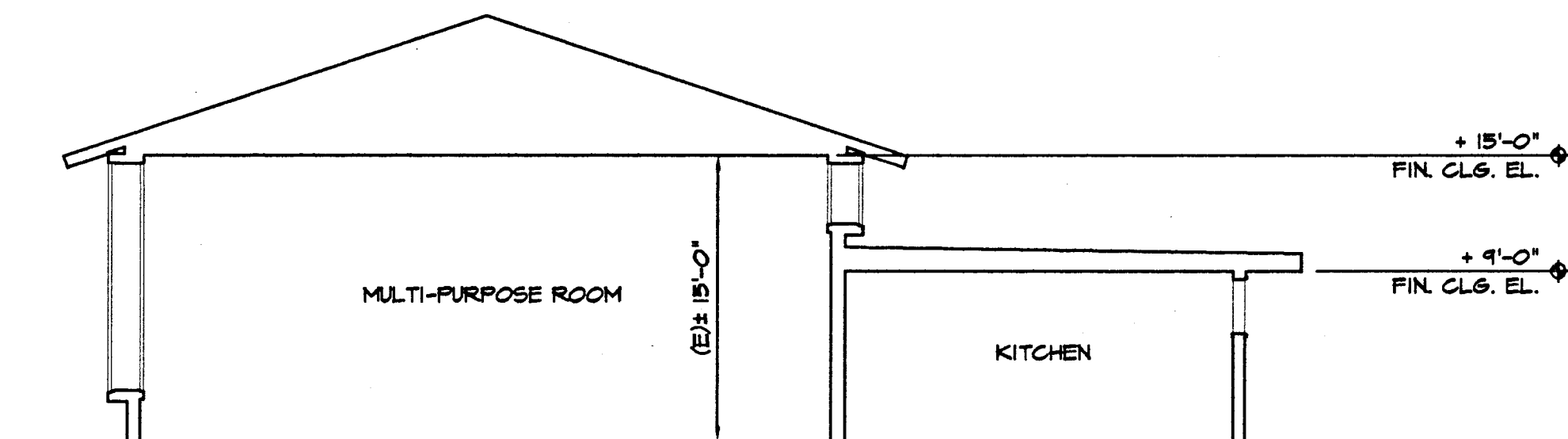
FLOOR PLAN - BUILDINGS A & B

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

===== (E) FIRE OR SMOKE BARRIER WALL - 1 HR. RATED UNLESS OTHERWISE NOTED



1 TYP. SECTION @ BLDG B
A-I SCALE: 1/8" = 1'-0"








2 TYP. SECTION @ BLDG A
A-I SCALE: 1/8" = 1'-0"

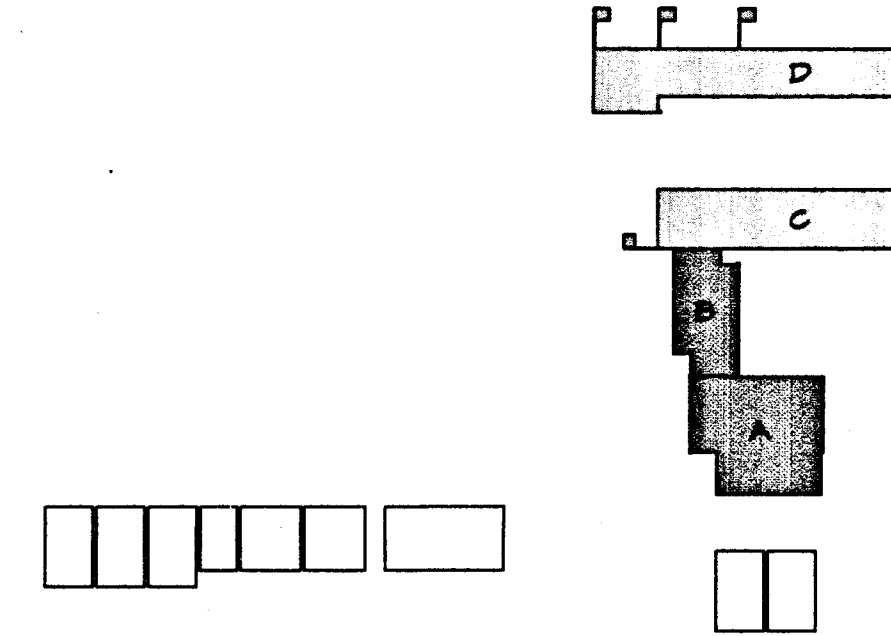
REMOVAL NOTES
(FOR DRAWING 15/A-1 ONLY)

- (1) VINYL ASBESTOS TILE, TILE ADHESIVE, RUBBER BASE, BASE ADHESIVE, AND MISCELLANEOUS CARPET WILL BE REMOVED FROM THIS SPACE AS PART OF A SEPARATE CONTRACT.
- (2) THE WORK INCLUDES REMOVAL OF SOME ROOFING MATERIAL, INCLUDING SHEET METAL FLASHING PIECES AND ROOF DRAINAGE ASSEMBLIES. SEE DRAWING A-3 FOR SCOPE OF WORK.
- (3) THE WORK INCLUDES REMOVAL OF CERTAIN DOORS, DOOR FRAMES AND DOOR HARDWARE. SEE THE DOOR SCHEDULE ON DRAWING A-3 FOR SCOPE OF WORK. DELIVER (E) DOORS AND HARDWARE TO THE SCHOOL DISTRICT.
- (4) REMOVE (E) GLAZING FROM ALL METAL OR WOOD SASH IN THIS GROUP OF WINDOWS. SEE WINDOW REGLAZING SCHEDULE ON DRAWING A-4.
- (5) THE WORK INCLUDES REMOVAL OF CERTAIN INTERIOR FINISHES IN THIS BUILDING. SEE THE ROOM FINISH SCHEDULE ON DRAWING A-4 FOR SCOPE OF WORK.
- (6) THE WORK INCLUDES REMOVAL OF CERTAIN PIECES OF (E) MECHANICAL EQUIPMENT IN THIS BUILDING. SEE THE MECHANICAL DRAWINGS. DELIVER EQUIPMENT TO THE SCHOOL DISTRICT.
- (7) THE WORK INCLUDES REMOVAL OF CERTAIN (E) PLUMBING FIXTURES IN THIS BUILDING. SEE THE PLUMBING DRAWINGS. DELIVER UNDAMAGED FIXTURES TO THE SCHOOL DISTRICT.
- (8) THE WORK INCLUDES REMOVAL OF CERTAIN PIECES OF (E) ELECTRICAL EQUIPMENT AND FIXTURES IN THIS BUILDING. SEE THE ELECTRICAL DRAWINGS. DELIVER EQUIPMENT AND FIXTURES TO THE SCHOOL DISTRICT.
- (9) REMOVE (E) DRAPERIES FROM ALL WINDOWS IN THIS SPACE. DELIVER DRAPERIES TO THE SCHOOL DISTRICT. (E) DRAPERY TRACKS TO REMAIN.
- (10) REMOVE (E) WOOD TRIM WHERE REQUIRED TO ACCOMPLISH THE WORK. REINSTALL OR REPLACE IN KIND.
- (11) SEE DETAIL 1/A-10 FOR REMOVALS RELATING TO INSTALLATION OF THE (N) WHEELCHAIR LIFT.
- (12) REMOVE (E) FOLDING TABLE AND BENCH SETS, INCLUDING (E) METAL POCKET ASSEMBLY. DELIVER (E) TABLES AND BENCHES TO THE SCHOOL DISTRICT.
- (13) REMOVE (E) PLATFORM CURTAINS WITH CARE, CLEAN AND REINSTALL.
- (14) REMOVE (E) BLINDS FROM ALL WINDOWS IN THIS SPACE. DELIVER (E) BLINDS TO THE SCHOOL DISTRICT.
- (15) REMOVE (E) CASEWORK.

CONSTRUCTION NOTES
(FOR DRAWING 15/A-1 ONLY)

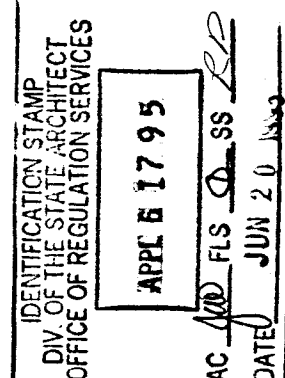
- (20) PAINT ENTIRE EXTERIOR OF BUILDING, TO INCLUDE PLASTER WALL SURFACES, WOOD TRIM, STEEL COLUMNS, WOOD POSTS, CONCRETE MASONRY GUARDRAILS, WOOD AND METAL DOORS AND FRAMES, PLASTER SOFFITS, METAL DOWNSPOUTS, EXPOSED CONDUIT, METAL LOUVERS AND MISCELLANEOUS ELECTRICAL AND SIGNAL DEVICES. DO NOT PAINT BRICK VENEER AND PIERS AND ALUMINUM LOUVERS.
- (21) THE WORK INCLUDES ROOFING REPAIRS. SEE DRAWING A-3 FOR SCOPE OF WORK.
- (22) (E) CONCRETE FLOOR SLAB ON GRADE. SEE FLOOR COVERING SPECIFICATIONS FOR PREP AND REPAIR. RE-COVER PER ROOM FINISH SCHEDULE.
- (23) (E) EXTERIOR AND INTERIOR WOOD STUD PARTITIONS, INDICATED , TO REMAIN. REFINISH PER ROOM FINISH SCHEDULE.
- (24) (N) EXTERIOR AND INTERIOR WOOD STUD PARTITIONS, INDICATED , FINISH PER ROOM FINISH SCHEDULE OR AS DETAILED.
- (25) (E) CEILING (SOFFIT) AND WALL FINISHES TO REMAIN, UNLESS NOTED OTHERWISE. RE-FINISH PER ROOM FINISH SCHEDULE.
- (26) THE WORK INCLUDES INSTALLATION OF (N) DOORS, DOOR FRAMES AND DOOR HARDWARE. SEE THE DOOR SCHEDULE ON DRAWING A-3 FOR EXTENT OF WORK AT EACH OPENING.
- (27) RE-GLAZE (E) METAL OR WOOD SASH IN THIS GROUP OF WINDOWS AS SCHEDULED. SEE WINDOW REGLAZING SCHEDULE ON DRAWING A-4 AND SPECIFICATION.
- (28) (N) MECHANICAL WORK REQUIRED THIS BUILDING. SEE THE MECHANICAL DRAWINGS.
- (29) (N) PLUMBING WORK REQUIRED THIS BUILDING. SEE THE PLUMBING DRAWINGS.
- (30) (N) ELECTRICAL WORK REQUIRED THIS BUILDING. SEE THE ELECTRICAL DRAWINGS.
- (31) (E) CASEWORK TO BE REFINISHED THIS SPACE. SEE THE ROOM FINISH SCHEDULE.
- (32) INSTALL (N) DRAPERIES AT ALL WINDOWS THIS SPACE.
- (33) INSTALL (N) MARKERBOARD PANELS OVER (E) CHALKBOARDS IN THIS SPACE. SEE THE FLOOR PLAN AND DRAWING A-1 FOR TYPICAL CLASSROOM INTERIOR ELEVATIONS. SEE ALSO DETAILS 5/A-4 & 6/A-4.
- (34) INSTALL (N) BUILDING ACCESSIBILITY SIGN - TYPE 3, SEE SPECIFICATIONS.
- (35) INSTALL (N) ACOUSTIC TILE CEILING FINISH. SEE ROOM FINISH SCHEDULE.
- (36) INSTALL (N) FOLDING TABLE AND BENCH SETS, INCLUDING (N) METAL POCKET ASSEMBLIES. SEE DETAIL 25/A-8.
- (37) INSTALL (N) HORIZONTAL BLINDS.
- (38) LINE OF CARPET AND VINYL TILE TRANSITION.
- (39) (N) CASEWORK SHOWN HATCHED. SEE DETAIL PLAN 2/A-1.
- (40) INSTALL (N) MAXIMUM OCCUPANCY SIGN - TYPE 6, SEE SPECIFICATION.
- (41) INSTALL (N) ALUMINUM SCREEN DOOR THIS LOCATION.
- (42) PATCH (E) PLYWOOD MAINSCOT AT WALL BEHIND UNIT VENTILATORS AS REQUIRED TO PROVIDE SMOOTH SURFACE TO RECEIVE (N) VINYL WALL COVERING. SEE DETAIL 19/A-8.
- (43) (N) CONCRETE FLOOR SLAB OVER (E) SLAB. SEE DETAIL 20/A-8.

- LEGEND
-  (E) BUILDINGS WITHIN SCOPE OF WORK. PLANS SHOWN ON THIS DRAWING.
 -  (E) BUILDINGS WITHIN SCOPE OF WORK. PLANS SHOWN ON ANOTHER DRAWING.
 -  (E) BUILDINGS OUTSIDE SCOPE OF WORK. DOES NOT QUALIFY FOR MODERNIZATION.



KEY PLAN

APPROVALS



CONSULTANT

MODERNIZATION AT
HIGHLAND
ELEMENTARY SCHOOL
FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

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ARCHITECT



NOTE
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SHEET TITLE

FLOOR PLAN
BUILDINGS A & B

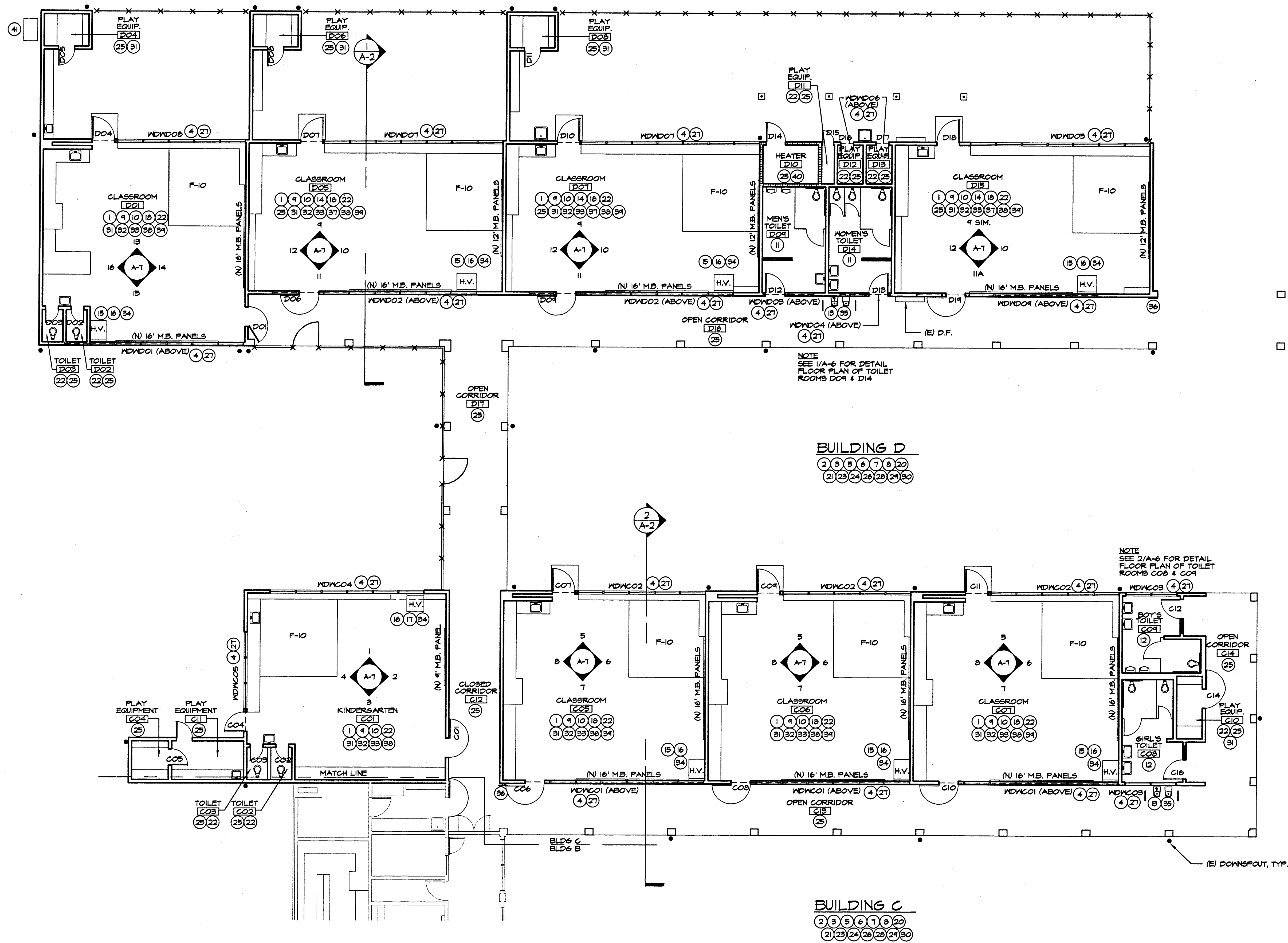
DATE
6/16/95

DRAWING NUMBER
15

FILE NO.
77-15-3

A-1
SHEET 5 OF 30

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FLOOR PLAN - BUILDINGS C & D

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

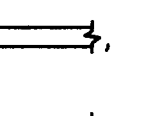

(E) FIRE OR SMOKE BARRIER WALL - 1 HR. RATED UNLESS OTHERWISE NOTED

REMOVAL NOTES (FOR DRAWING 15/A-2 ONLY)




- (1) VINYL ASBESTOS TILE, TILE ADHESIVE, RUBBER BASE, BASE ADHESIVE, AND MISCELLANEOUS CARPET WILL BE REMOVED FROM THIS SPACE AS PART OF A SEPARATE CONTRACT.
- (2) THE WORK INCLUDES REMOVAL OF SOME ROOFING MATERIAL, INCLUDING SHEET METAL FLASHING PIECES AND ROOF DRAINAGE ASSEMBLIES. SEE DRAWING A-3 FOR SCOPE OF WORK.
- (3) THE WORK INCLUDES REMOVAL OF CERTAIN DOORS, DOOR FRAMES AND DOOR HARDWARE. SEE THE DOOR SCHEDULE ON DRAWING A-3 FOR SCOPE OF WORK. DELIVER (E) DOORS AND HARDWARE TO THE SCHOOL DISTRICT.
- (4) REMOVE (E) SLAZING FROM ALL METAL OR WOOD SASH IN THIS GROUP OF WINDOWS. SEE WINDOW RESLAZING SCHEDULE ON DRAWING A-4.
- (5) THE WORK INCLUDES REMOVAL OF CERTAIN INTERIOR FINISHES IN THIS BUILDING. SEE THE ROOM FINISH SCHEDULE ON DRAWING A-4 FOR SCOPE OF WORK.
- (6) THE WORK INCLUDES REMOVAL OF CERTAIN PIECES OF (E) MECHANICAL EQUIPMENT IN THIS BUILDING. SEE THE MECHANICAL DRAWINGS. DELIVER EQUIPMENT TO THE SCHOOL DISTRICT.
- (7) THE WORK INCLUDES REMOVAL OF CERTAIN (E) PLUMBING FIXTURES IN THIS BUILDING. SEE THE PLUMBING DRAWINGS. DELIVER UNDAMAGED FIXTURES TO THE SCHOOL DISTRICT.
- (8) THE WORK INCLUDES REMOVAL OF CERTAIN PIECES OF (E) ELECTRICAL EQUIPMENT AND FIXTURES IN THIS BUILDING. SEE THE ELECTRICAL DRAWINGS. DELIVER EQUIPMENT AND FIXTURES TO THE SCHOOL DISTRICT.
- (9) REMOVE (E) DRAPERIES FROM ALL WINDOWS IN THIS SPACE. DELIVER DRAPERIES TO THE SCHOOL DISTRICT. (E) DRAPEY TRACKS TO REMAIN.
- (10) REMOVE (E) WOOD TRIM WHERE REQUIRED TO ACCOMPLISH THE WORK. REINSTALL OR REPLACE IN KIND.

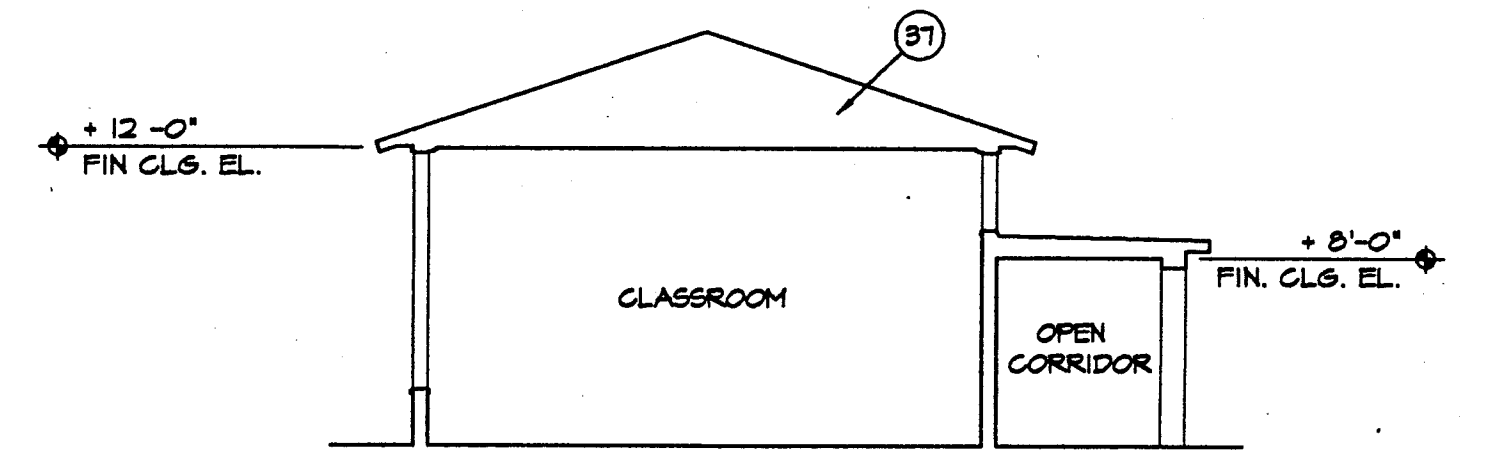
- (11) SEE DETAIL 1/A-6 FOR REMOVALS RELATING TO THE WORK IN MEN'S AND WOMEN'S FACILITY TOILETS, BUILDING D.
- (12) SEE DETAIL 2/A-6 FOR REMOVALS RELATING TO THE WORK IN GIRLS' AND BOYS' STUDENT TOILETS, BUILDING C.
- (13) REMOVE (E) WALL FINISH AS REQUIRED TO INSTALL (N) DRINKING FOUNTAIN. SEE DETAIL 4/C-1.
- (14) REMOVE (E) ACoustical TILE CEILING FINISH IN THIS SPACE - (E) 2x8 STRIPPING @ 12" O.C. TO REMAIN.
- (15) SAWCUT AND REMOVE PORTION OF (E) TACKBOARD, (E) WOOD TRIM AND (E) PLYWOOD MAINSCOTT IN EXACT LOCATION OF (N) 4 V UNIT. SEE MECHANICAL DRAWINGS.
- (16) SAWCUT AND REMOVE (E) CURTAIN TRACK IN EXACT LOCATION OF (N) 4 V UNIT. SEE MECHANICAL DRAWINGS.
- (17) SAWCUT AND REMOVE SECTION OF (E) CASEWORK IN LOCATION OF (N) 4 V UNIT. SEE MECHANICAL DRAWINGS.
- (18) REMOVE (E) HORIZONTAL BLINDS FROM ALL WINDOWS IN THIS SPACE. DELIVER (E) BLINDS TO THE SCHOOL DISTRICT.

CONSTRUCTION NOTES (FOR DRAWING 15/A-2 ONLY)

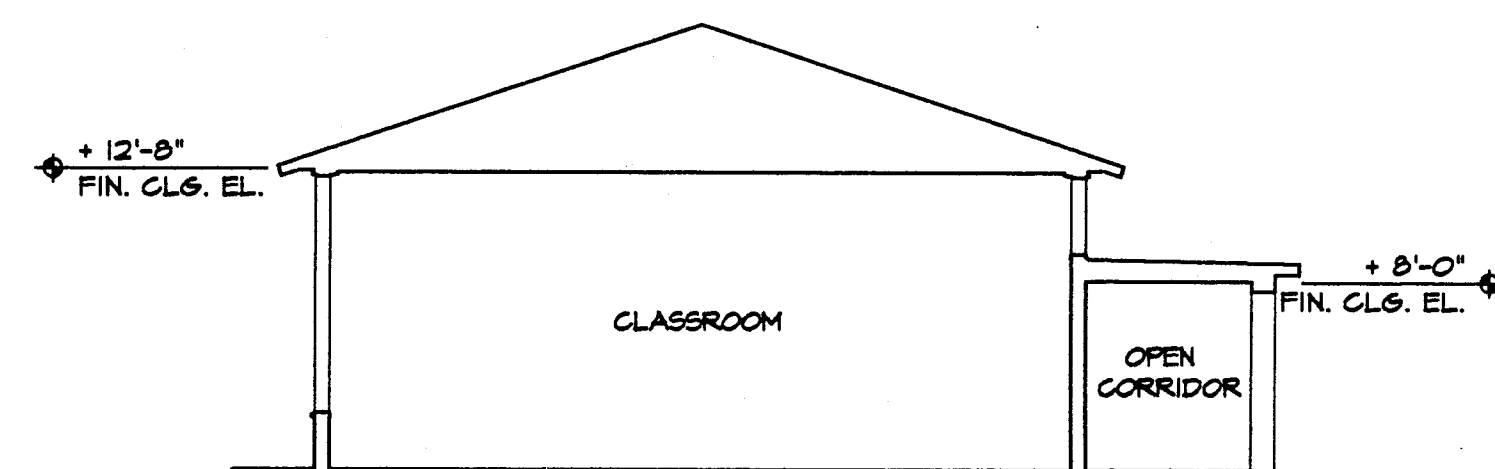
- (20) PAINT ENTIRE EXTERIOR OF BUILDING. TO INCLUDE PLASTER WALL SURFACES, WOOD TRIM, STEEL COLUMNS, WOOD POSTS, CONCRETE MASONRY GUARDRAILS, WOOD AND METAL DOORS AND FRAMES, PLASTER SOFFITS, METAL DOWNSPOUTS, EXPOSED CONDUIT, METAL LOUVERS AND MISCELLANEOUS ELECTRICAL AND SIGNAL DEVICES. DO NOT PAINT BRICK VENEER AND PIERS AND ALUMINUM LOUVERS.
- (21) THE WORK INCLUDES ROOFING REPAIRS. SEE DRAWING A-3 FOR SCOPE OF WORK.
- (22) (E) CONCRETE FLOOR SLAB ON GRADE. SEE FLOOR COVERING SPECIFICATIONS FOR PREP AND REPAIR. RE-COVER PER ROOM FINISH SCHEDULE.
- (23) (E) EXTERIOR AND INTERIOR WOOD STUD PARTITIONS, INDICATED , TO REMAIN. REFINISH PER ROOM FINISH SCHEDULE.
- (24) (N) EXTERIOR AND INTERIOR WOOD STUD PARTITIONS, INDICATED , FINISH PER ROOM FINISH SCHEDULE, OR AS DETAILED.
- (25) (E) CEILING (SOFFIT) AND WALL FINISHES TO REMAIN, UNLESS NOTED OTHERWISE. RE-FINISH PER ROOM FINISH SCHEDULE.
- (26) THE WORK INCLUDES INSTALLATION OF (N) DOORS, DOOR FRAMES AND DOOR HARDWARE. SEE THE DOOR SCHEDULE ON DRAWING A-3 FOR EXTENT OF WORK AT EACH OPENING.
- (27) RE-SLAZE (E) METAL OR WOOD SASH IN THIS GROUP OF WINDOWS AS SCHEDULED. SEE WINDOW RESLAZING SCHEDULE ON DRAWING A-4 AND SPECIFICATION.
- (28) (N) MECHANICAL WORK REQUIRED THIS BUILDING. SEE THE MECHANICAL DRAWINGS.
- (29) (N) PLUMBING WORK REQUIRED THIS BUILDING. SEE THE PLUMBING DRAWINGS.
- (30) (N) ELECTRICAL WORK REQUIRED THIS BUILDING. SEE THE ELECTRICAL DRAWINGS.
- (31) (E) CASEWORK TO BE REFINISHED THIS SPACE. SEE THE ROOM FINISH SCHEDULE.
- (32) INSTALL (N) DRAPERIES AT ALL WINDOWS THIS SPACE.
- (33) INSTALL (N) MARKERBOARD PANELS OVER (E) CHALKBOARDS IN THIS SPACE. SEE THE FLOOR PLANS AND DRAWING A-1 FOR TYPICAL CLASSROOM INTERIOR ELEVATIONS. SEE ALSO DETAILS 4/A-4 & 5/A-4.
- (34) (N) H & V UNIT. SEE MECHANICAL DRAWINGS.
- (35) (N) DRINKING FOUNTAINS AND GUARDRAILS. SEE PLUMBING DRAWINGS, DETAILS 4/C-1 AND 5/C-1.
- (36) INSTALL (N) BUILDING ACCESSIBILITY SIGN - TYPE 3, SEE SPECIFICATIONS.
- (37) INSTALL (N) R-19 BATT INSULATION BETWEEN (E) 2x6 ROOF RAFTERS AT 16" O.C.
- (38) INSTALL (N) ACOUSTIC TILE CEILING FINISH. SEE ROOM FINISH SCHEDULE.
- (39) INSTALL (N) HORIZONTAL BLINDS AT CLERESTORY WINDOWS.
- (40) (N) CONCRETE FLOOR SLAB OVER (E) SLAB. SEE DETAIL 20/A-8.
- (41) (E) 8x8 METER TO REMAIN - PROTECT FROM DAMAGE.

KEY PLAN

- LEGEND
-  (E) BUILDING WITHIN SCOPE OF WORK. PLANS SHOWN ON THIS DRAWING.
 -  (E) BUILDING WITHIN SCOPE OF WORK. PLANS SHOWN ON ANOTHER DRAWING.
 -  (E) BUILDING OUTSIDE SCOPE OF WORK. DOES NOT QUALIFY FOR MODERNIZATION.

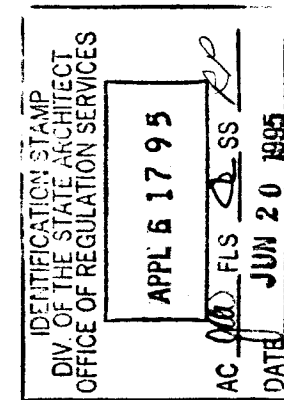


1 TYP. SECTION @ BLDG D
A-2 SCALE: 1/8" = 1'-0"



2 TYP. SECTION @ BLDG C
A-2 SCALE: 1/8" = 1'-0"

APPROVALS

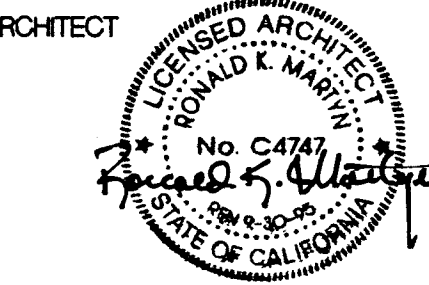


CONSULTANT

MODERNIZATION AT HIGHLAND ELEMENTARY SCHOOL FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

USE OF ASSOCIATED ARCHITECTS' DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS
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ARCHITECT



NOTE

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SHEET TITLE

FLOOR PLAN
BUILDINGS C & D

DATE

6/16/95

FILE NO.

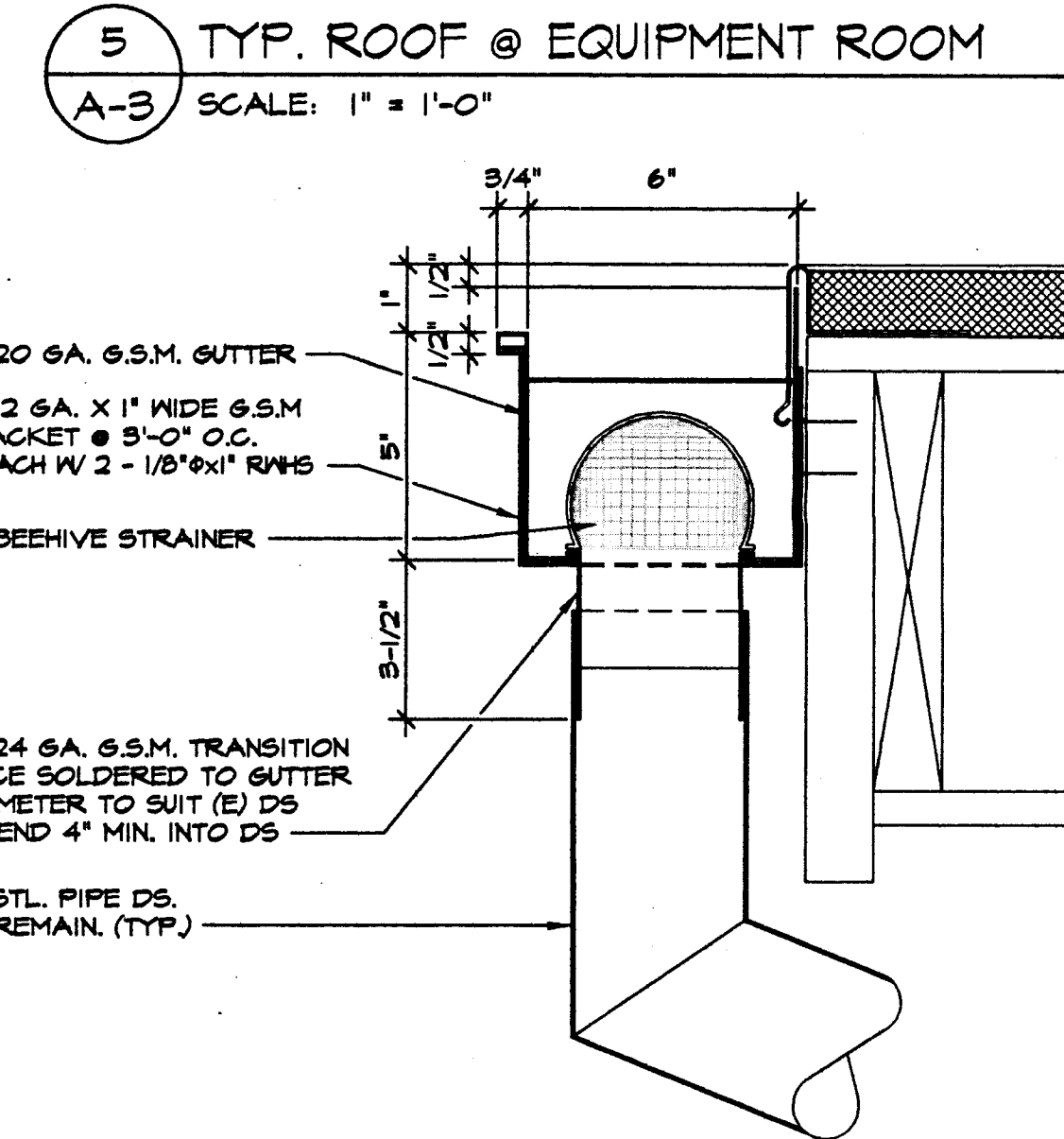
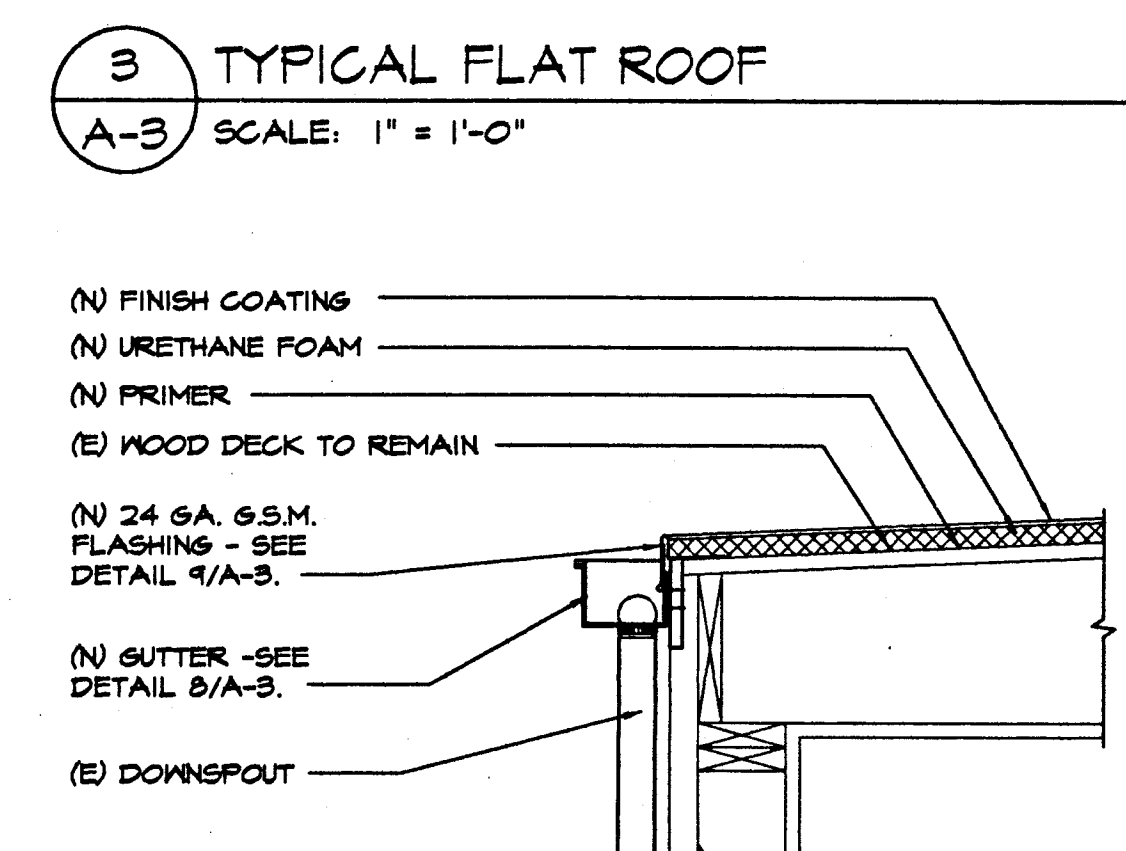
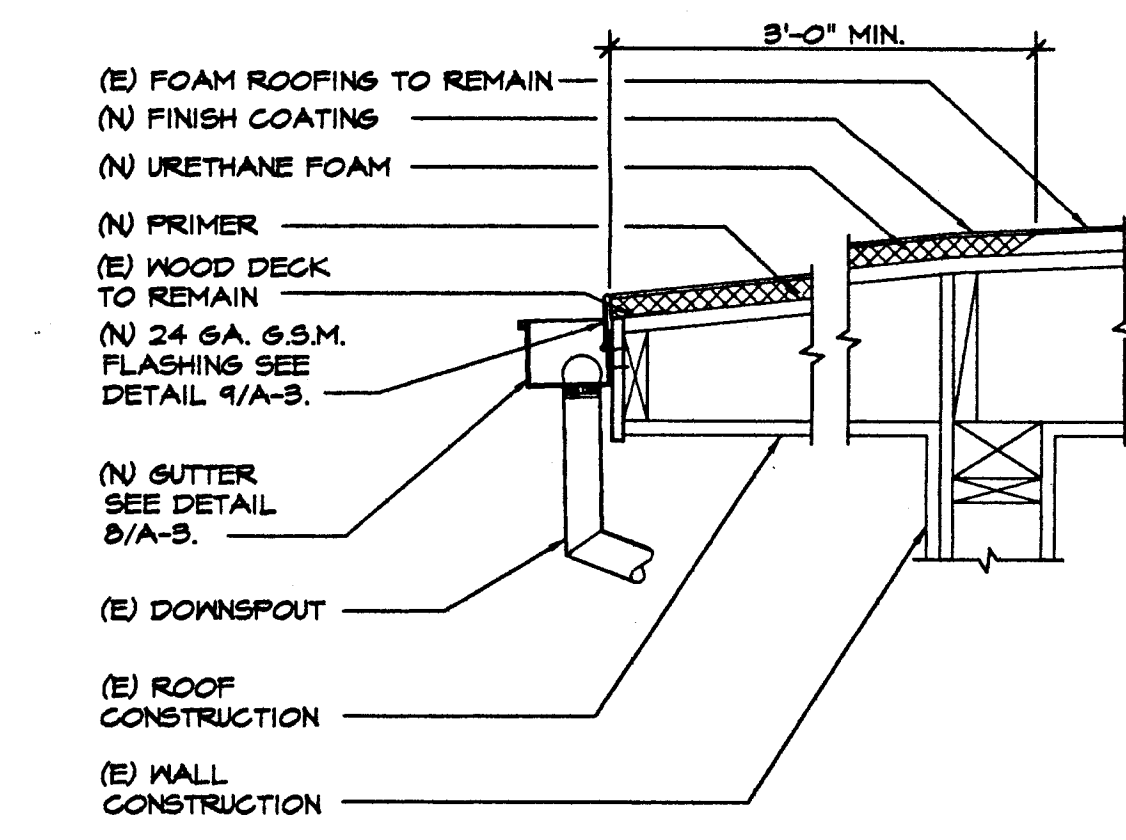
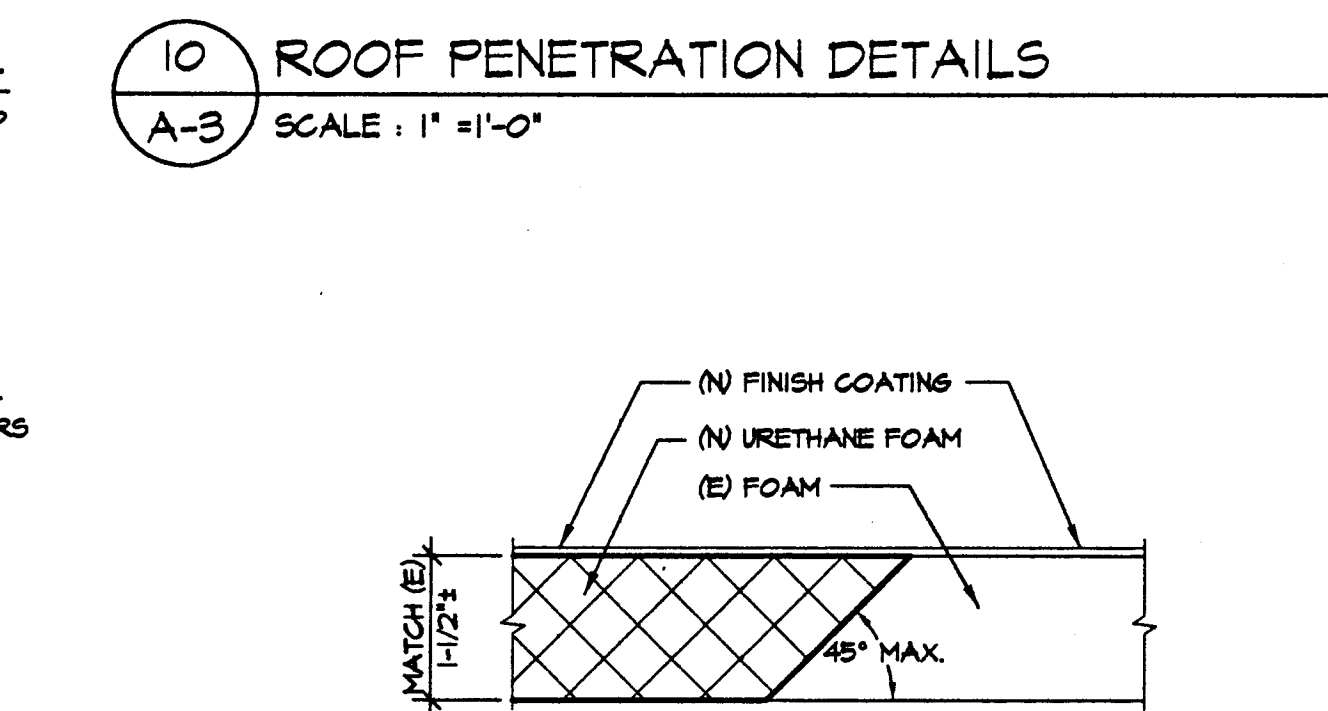
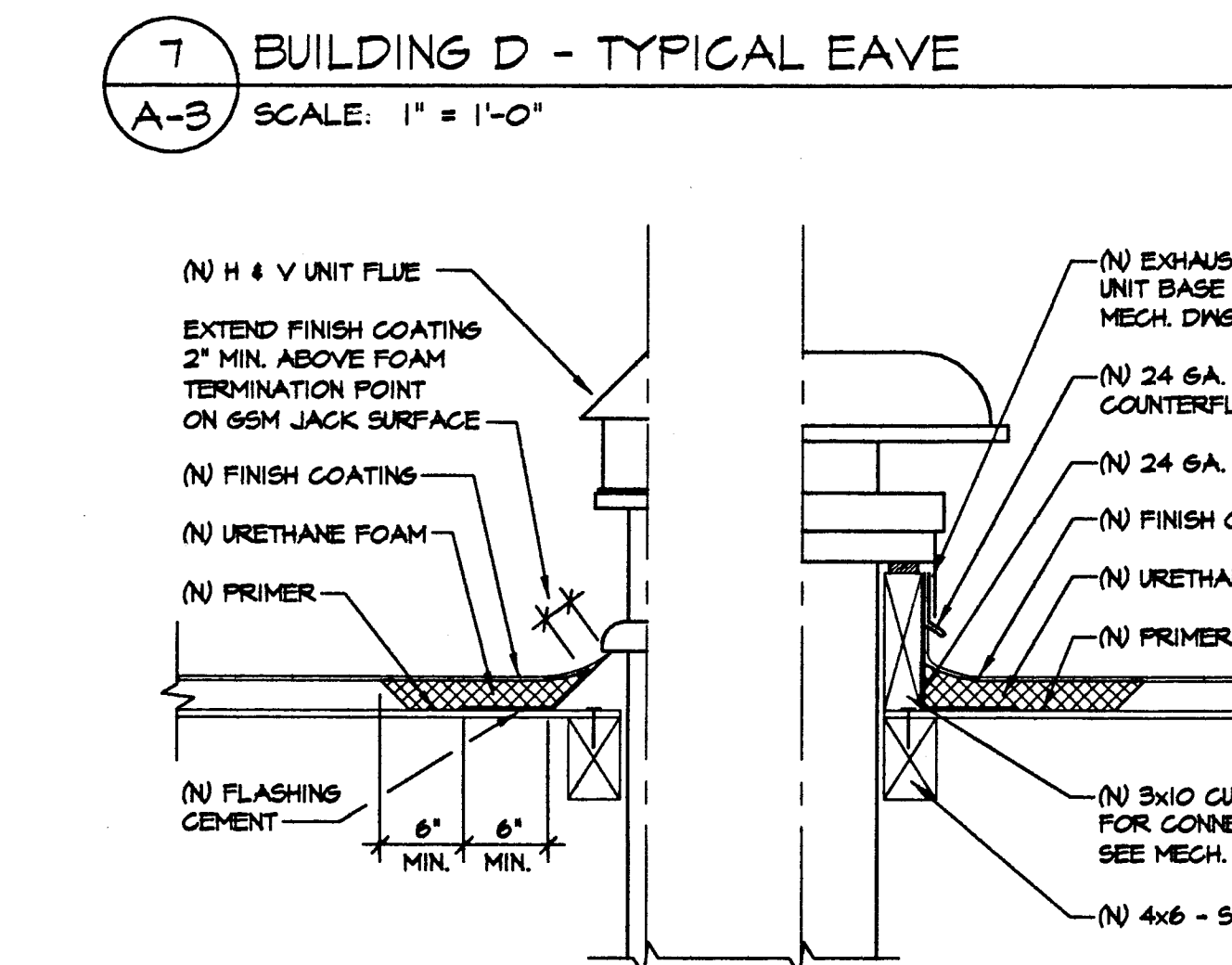
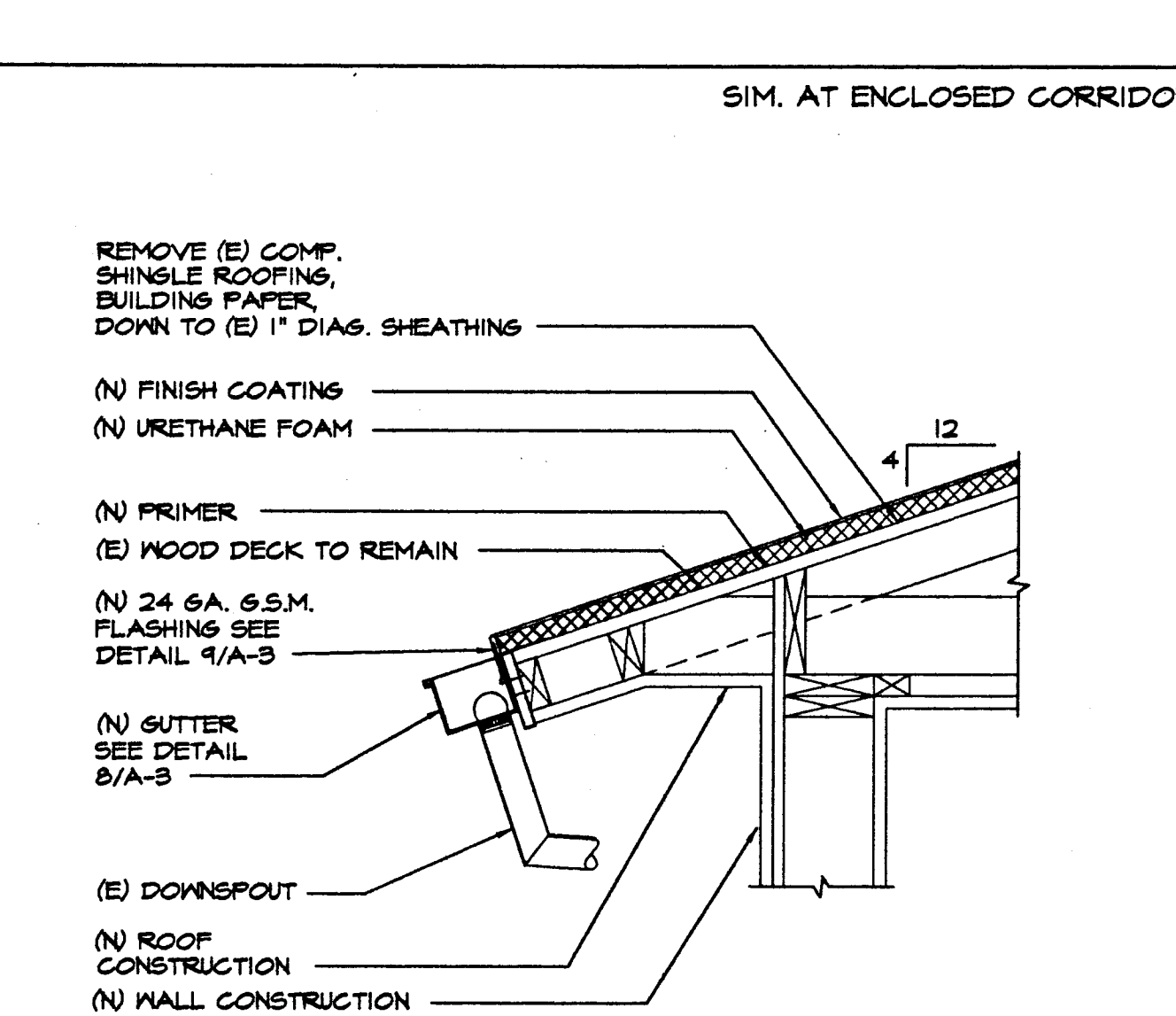
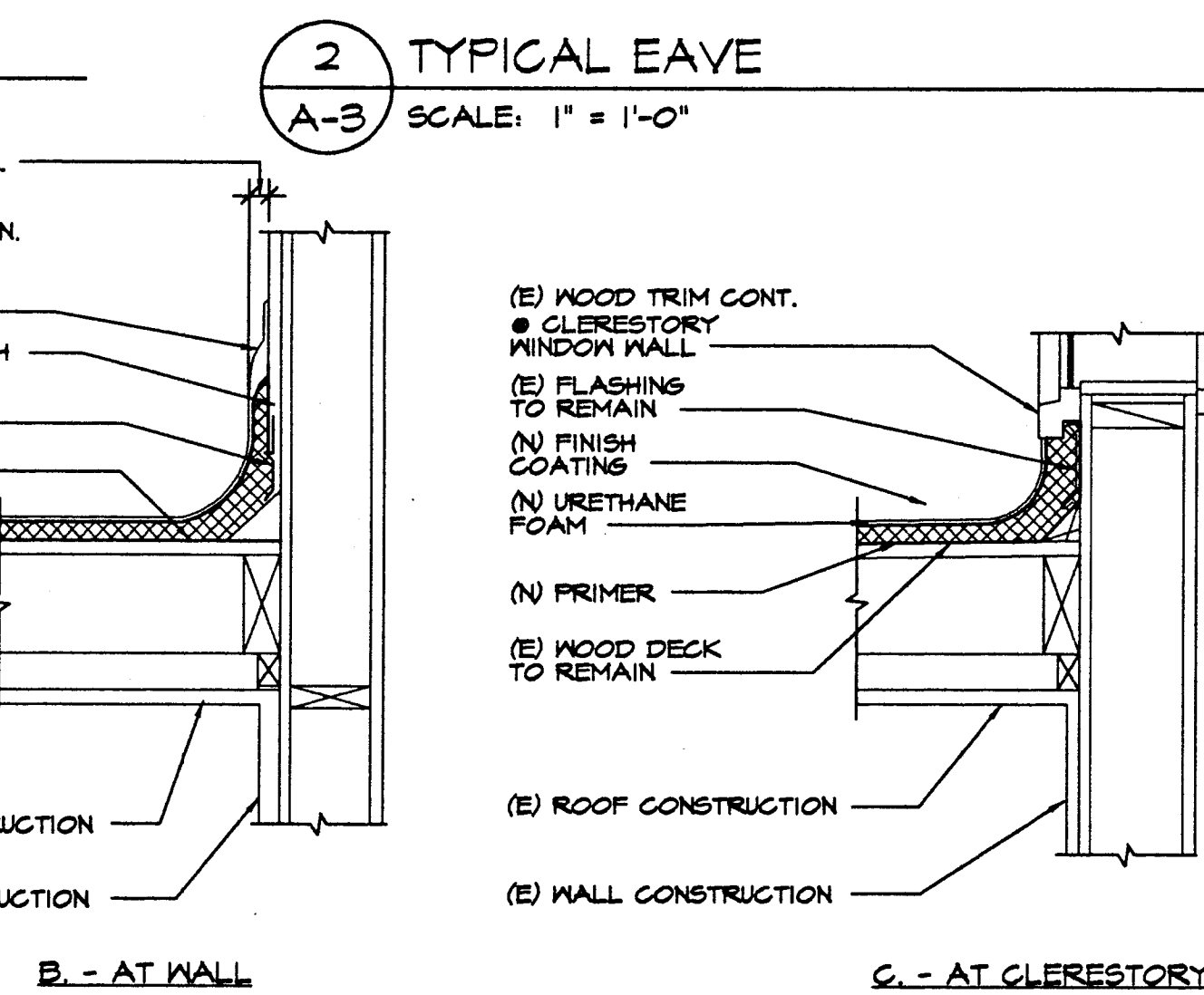
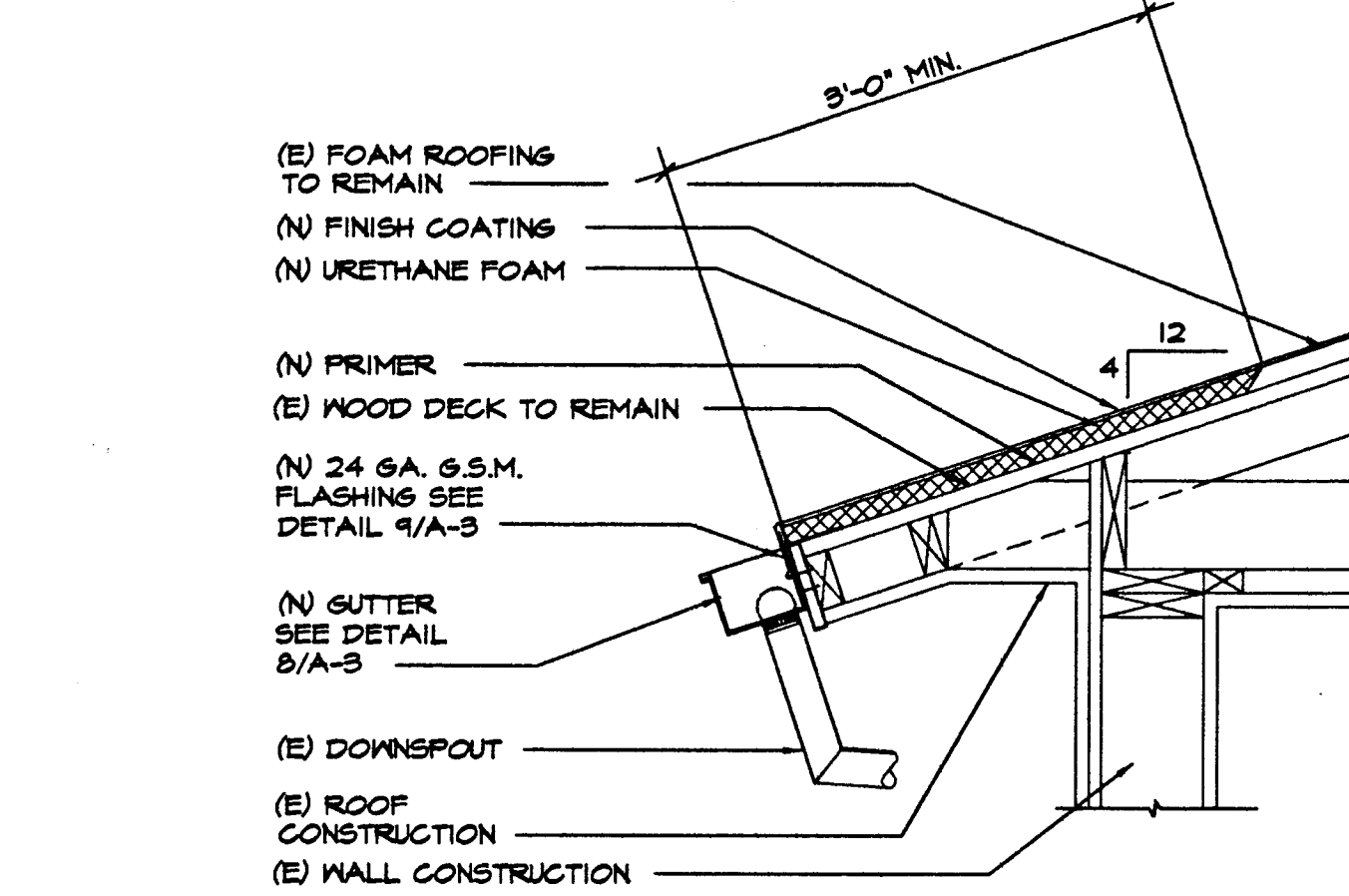
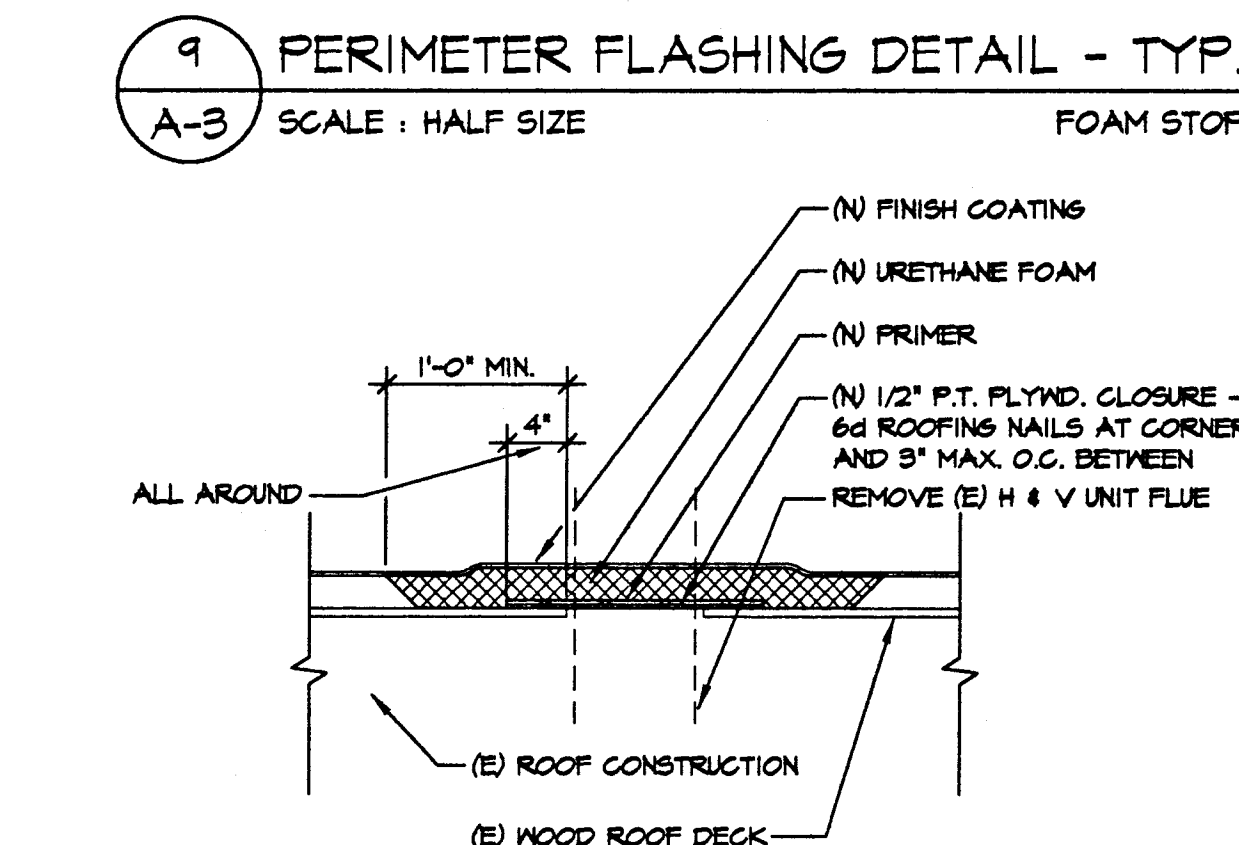
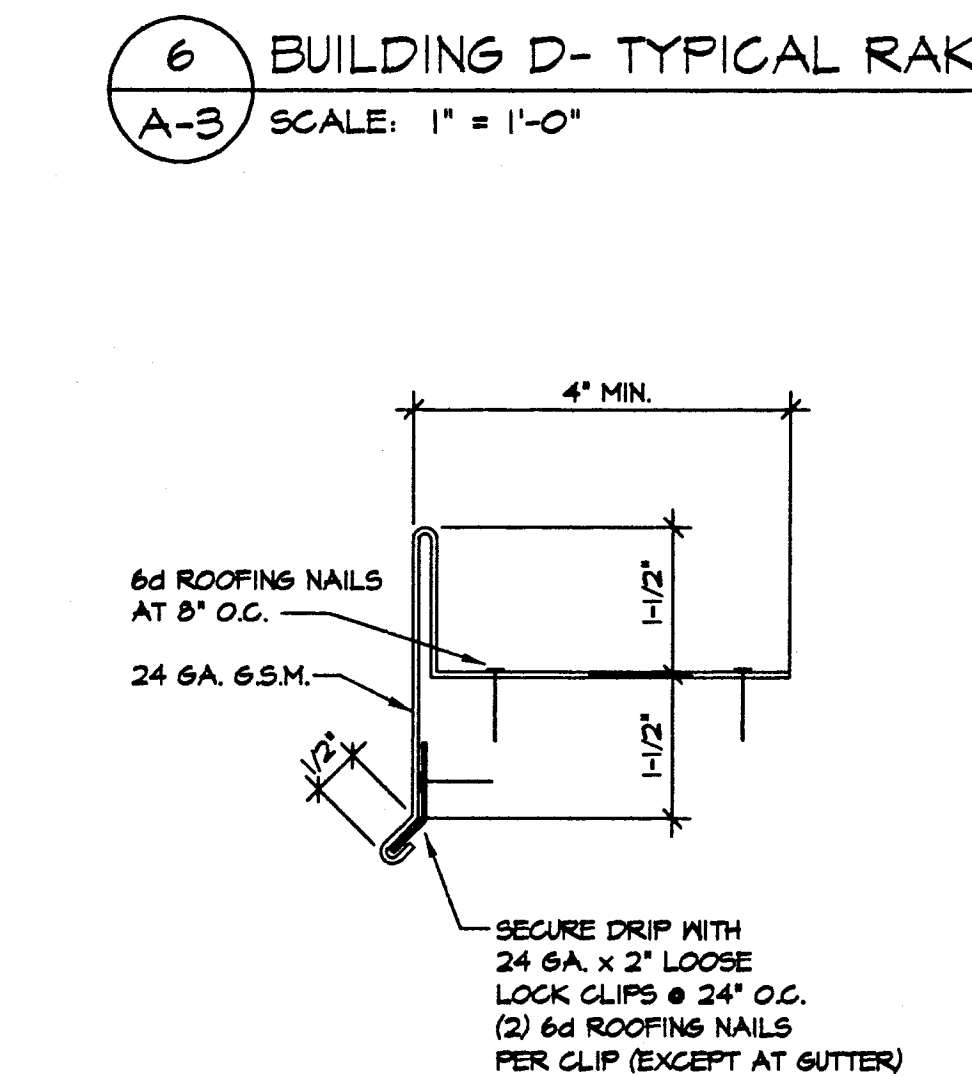
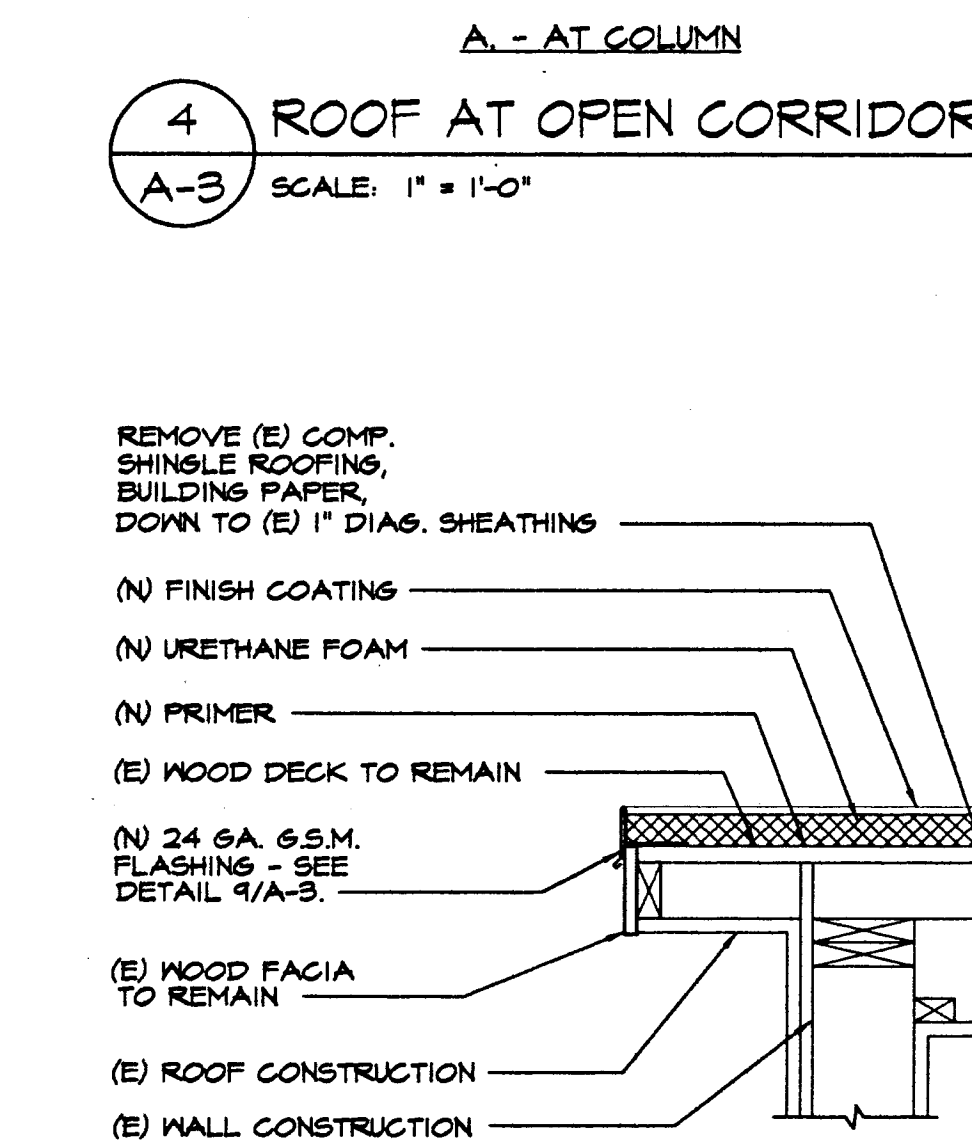
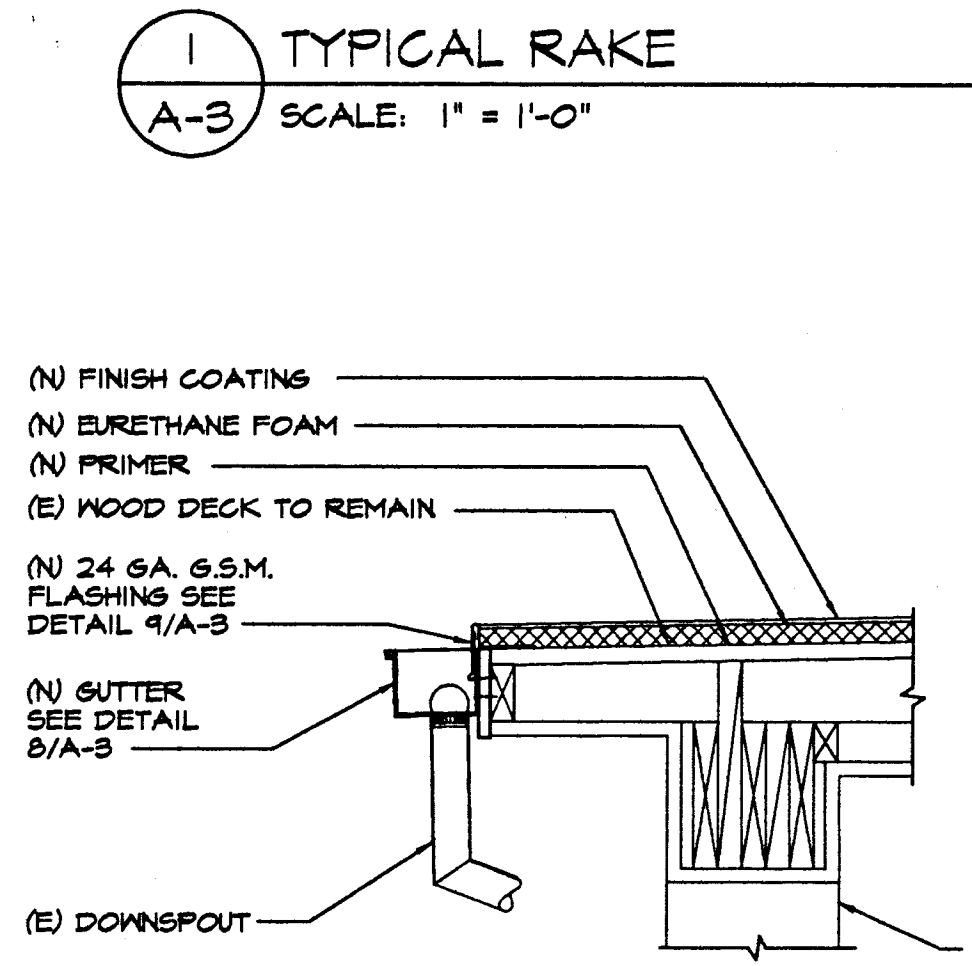
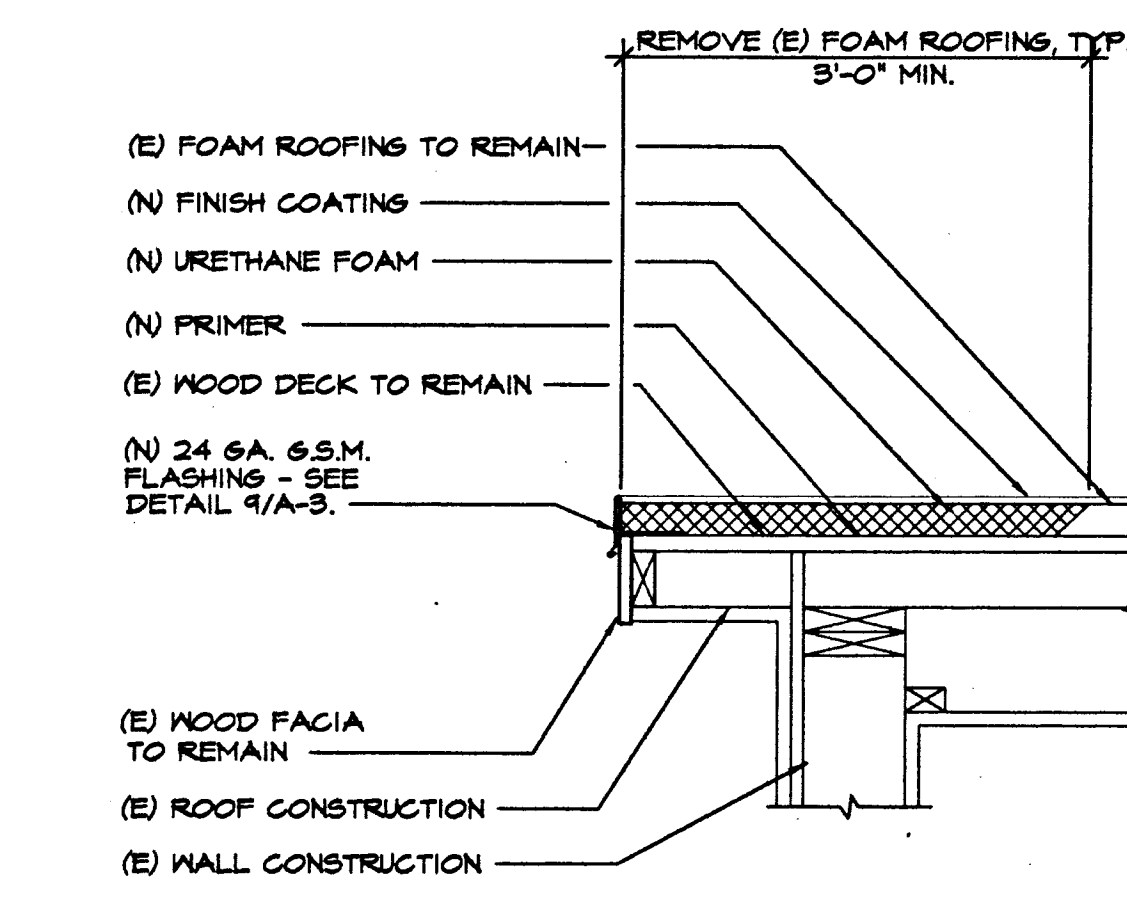
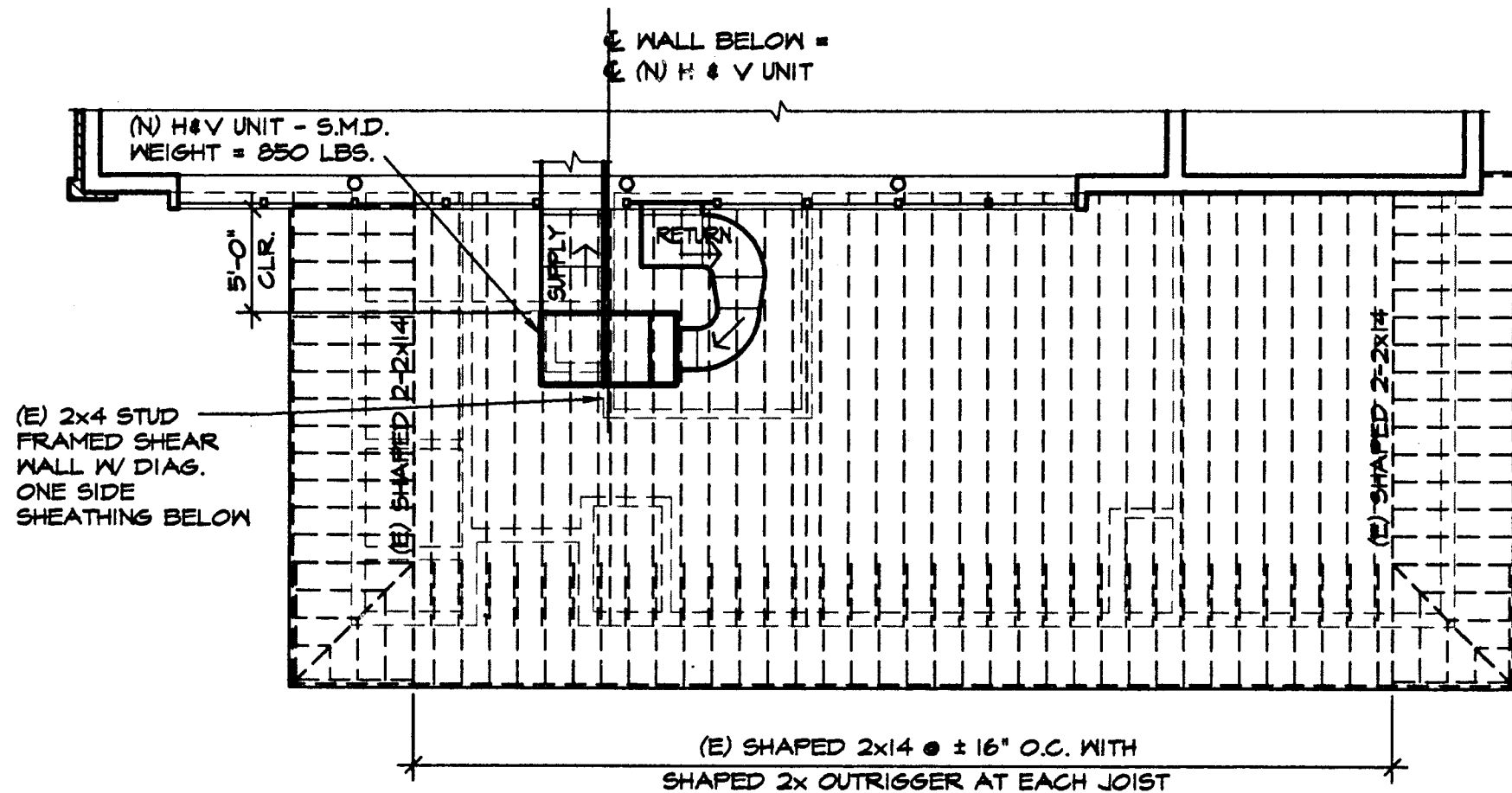
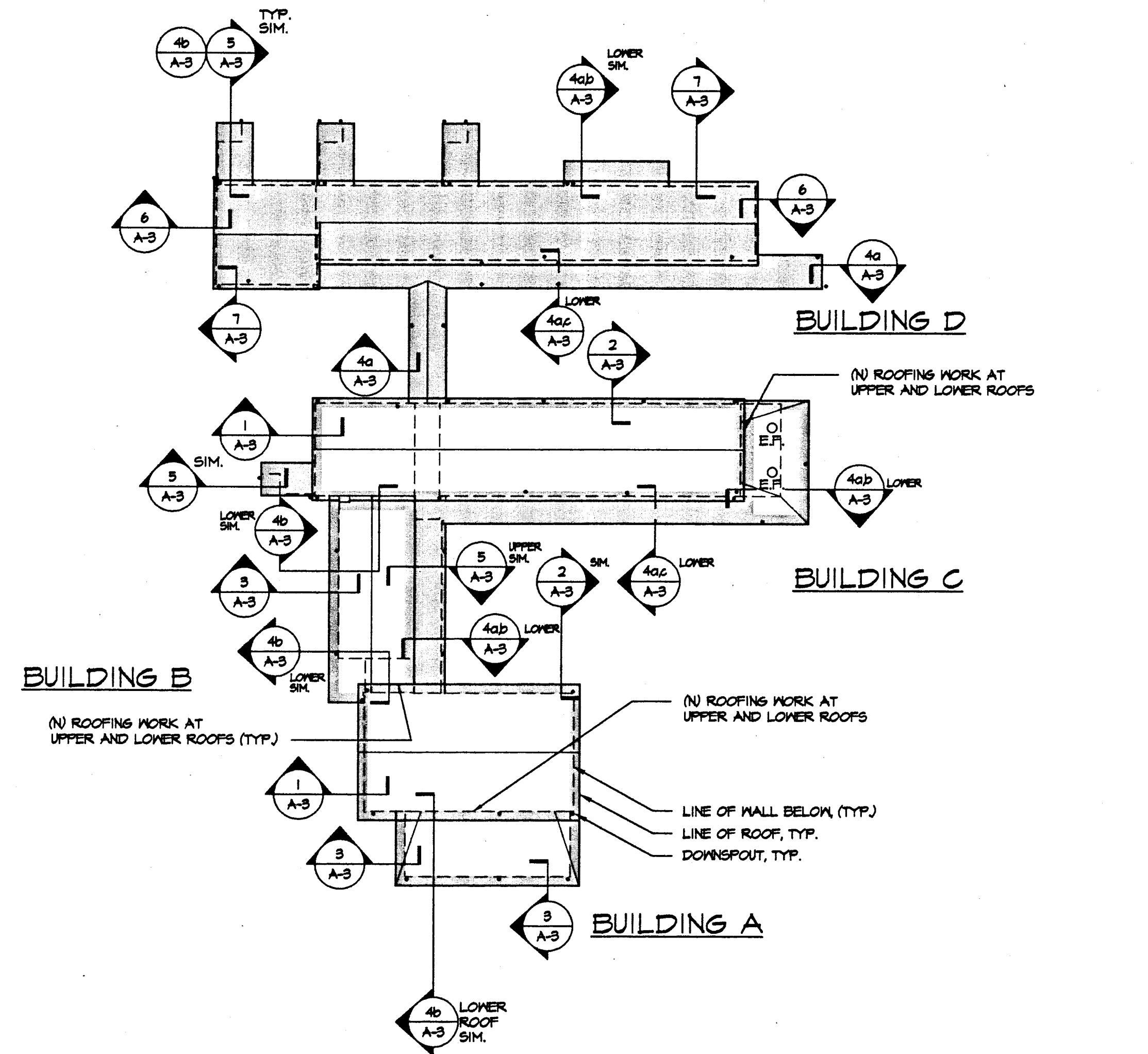
77-15-3

DRAWING NUMBER

15

A-2

SHEET 6 OF 30



APPROVALS

CONSULTANT

**MODERNIZATION AT
HIGHLAND
ELEMENTARY SCHOOL
FOR THE HAYWARD UNIFIED SCHOOL DISTRICT**

USE OF ASSOCIATED ARCHITECTS' DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS
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ARCHITECT

NOTE
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SHEET TITLE
ROOF PLAN,
RE-ROOFING DETAILS

DATE
6/16/95

DRAWING NUMBER
15
A-3

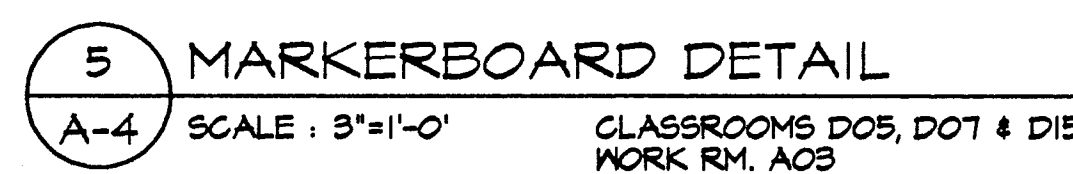
FILE NO.
TT-15-3

SHEET 7 OF 30

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				TRIM	CASE WORK	CLS.	REMARKS	ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				TRIM	CASE WORK	CLS.	REMARKS
				N	E	S	W									N	E	S	W				
BUILDING A												BUILDING C											
A01	MULTI-PURPOSE ROOM	F-6 F-14	B-2	M-2 M-16	M-2 M-16	M-2 M-16	M-2 M-16	T-3 T-3	—	C-1		C01	KINDERGARTEN	F-8 F-10	B-4 B-6	M-2 M-3	M-2 M-3	M-2 M-3	M-2 M-3	T-2 T-3	CMB CMB	C-1	
A02	PLATFORM	F-6	B-2	M-2	M-2	M-2	M-2	T-2 T-3	CMB-2	C-2		C02	TOILET	F-4	B-1	M-2 M-4	M-2 M-4	M-2 M-4	M-2 M-4	T-8	—	C-2	
A03	STAFF WORK ROOM	F-6	B-4	M-2 M-3	M-2 M-3	M-2 M-3	M-2 M-3	T-2 T-3	CMB-2	C-1		C03	TOILET	F-4	B-1	M-2 M-4	M-2 M-4	M-2 M-4	M-2 M-4	T-8	—	C-2	
A04	KITCHEN	F-8	B-4	M-2 M-3	M-2 M-3	M-2 M-3	M-2 M-3	T-2 T-3	—	C-1	PLYWOOD MAINSCOT AT SERVING AREA ONLY	C04	PLAY EQUIPMENT	F-2	B-2	M-2	M-2	M-2	M-2	T-8	CMB-3	C-2	
A05	DISHWASHING	F-8	B-4	M-2	M-2	M-2	M-2	T-8	CMB-1	C-1		C05	CLASSROOM	F-8 F-10	B-4 B-6	M-2 M-16	M-2 M-16	M-2 M-16	M-2	T-8	CMB CMB	C-1	
A06	DRY STORAGE	F-8	B-4	M-2	M-2	M-2	M-2	T-8	CMB-1	C-2		C06	CLASSROOM	F-8 F-10	B-4 B-6	M-2 M-16	M-2 M-16	M-2 M-16	M-2	T-8	CMB CMB	C-1	
A07	JANITOR	F-8	B-4	M-2	M-2	M-2	M-2	T-8	CMB-1	C-2		C07	CLASSROOM	F-8 F-10	B-4 B-6	M-2 M-16	M-2 M-16	M-2 M-16	M-2	T-8	CMB CMB	C-1	
A08	WALK-IN	F-1	B-1	M-1	M-1	M-1	M-1	T-1	—	C-1		C08	GIRL'S TOILET	F-11	B-1	M-2 M-8	M-2 M-8	M-2 M-8	M-2	T-8	—	C-1	
A09	LOCKER ROOM	F-8	B-4	M-2	M-2	M-2	M-2	T-8	—	C-2		C09	BOY'S TOILET	F-11	B-1	M-2 M-8	M-2 M-8	M-2 M-8	M-2	T-8	—	C-1	
A10	TOILET	F-4	B-1	M-2 M-4	M-2 M-4	M-2 M-4	M-2 M-4	T-8	—	C-2		C10	PLAY EQUIPMENT	F-2	B-2	M-2	M-2	M-2	M-2	T-8	CMB-3	C-2	

BUILDING B



FINISH MATERIALS LEGEND

TRIM

CASEWORK

CW-3 (E) PAINTED

CIN-6 (N) LAMINATE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

APPL 6 17 95

AC MD FLS 0-SS RP

DATE JUN 20 1995

MODERNIZATION AT

HIGHLAND ELEMENTARY SCHOOL

FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

ASSOCIATED ARCHITECTS - 494 HAWTHORNE AVENUE - OAKLAND, CALIFORNIA 94609 - (510) 428-9448

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ARCHITECT

LICENSED ARCHITECT
RONALD K. MARVIN
No. C4747
PEN 9-25
STATE OF CALIFORNIA

Ronald K. Marvin

NOTE:
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SHEET TITLE

ROOM FINISH
SCHEDULE, FINISH
MATERIALS LEGEND,
DETAILS

DATE	DRAWING NUMBER
------	----------------

FILE NO. **A-4**
77-15-3

SHEET 8 OF 30

DOOR SCHEDULE

DOOR NO.	DOOR OPENING (SIZE)	DOOR		FRAME		HARDWARE		DETAILS			FIRE RATING	KICK PLATE ARMOR PLATE	REMARKS
		N/E	TYPE	N/E	TYPE	N/E	GROUP	HEAD	JAMB	SILL			
BUILDING A													
A01	6'-0" x 7'-0"	N	32	N	K	N	33R	3 A-5	4 A-5	18 A-0	20min.	KP	REMOVAL NOTE #1.
A02	3'-0" x 7'-0"	N	11	N	D	N	11	3 A-5	4 A-5	6 A-5	---	KP	REMOVAL NOTE #1.
A03	3'-1 1/4" x 7'-0"	N	17	N	F	N	14	7 A-5	8 A-5	6 A-5	---	KP	REMOVAL NOTE #1.
A04	4'-8" x 7'-0"	E	---	E	---	E	---	---	---	---	---	---	---
A05	3'-0" x 7'-0"	E	---	E	---	N	44	---	---	---	---	KP	---
A06	3'-0" x 7'-0"	---	---	E	---	---	---	---	---	18 A-0	---	---	REMOVAL NOTE #2. PATCH (E) WOOD FRAME.
A07	3'-0" x 7'-0"	E	---	E	---	N	44	---	---	18 A-0	---	KP	---
A08	3'-0" x 7'-0"	E	---	E	---	N	44	---	---	18 A-0	---	KP	---
A09	3'-0" x 7'-0"	E	---	E	---	N	44	---	---	18 A-0	---	KP	---
A10	3'-0" x 7'-0"	E	---	E	---	N	44	---	---	---	---	KP	---
A11	2'-0" x 7'-0"	N	37	N	L	N	48R	7 A-5	8 A-5	17 A-0	45min.	---	REMOVAL NOTE #1.
A12	3'-0" x 7'-0"	N	37	N	L	N	48R	7 A-5	8 A-5	17 A-0	45min.	AP	REMOVAL NOTE #1.
A13	3'-0" x 6'-6"	E	---	E	---	E	---	---	---	---	---	---	(E) WALK-IN BOX DOOR TO REMAIN.
A14	2'-6" x 7'-0"	E	---	E	---	N	54	---	---	---	---	KP	---
A15	2'-0" x 7'-0"	E	---	E	---	N	54	---	---	---	---	KP	---
A16	3'-0" x 7'-0"	N	17	N	F	N	13	1 A-5	2 A-5	6 A-5	---	AP	REMOVAL NOTE #1.
A17	3'-0" x 7'-0"	N	14	N	F	N	13	1 A-5	2 A-5	6 A-5	---	KP	REMOVAL NOTE #1.

BUILDING B													
B01	6'-0" x 7'-0"	N	4	N	C	N	01	—	11	6	—	KP	REMOVAL NOTE #1.
B02	6'-0" x 7'-0"	N	4	N	C	N	01	13K	13K	6	—	—	REMOVAL NOTE #1.
B03	2'-6" x 7'-0"	N	37	N	L	N	48R	15	16	17	20min.	KP	REMOVAL NOTE #1.
B04	2'-0" x 7'-0"	E	—	E	—	N	54	—	—	—	—	KP	—
B05	3'-0" x 7'-0"	E	—	E	—	N	50	—	—	—	—	KP	—
B06	2'-0" x 7'-0"	E	—	E	—	N	55	—	—	—	—	KP	—
B07	2'-0" x 7'-0"	E	—	E	—	N	54	—	—	—	—	KP	—
B08	2'-0" x 6'-8"	N	37	N	L	N	48R	9	10	17	20min.	KP	REMOVAL NOTE #1.
B09	3'-0" x 7'-0"	N	38	N	L	N	48R	9	10	17	20min.	KP	REMOVAL NOTE #1.
B10	3'-0" x 7'-0"	E	—	E	—	N	50	—	—	—	—	KP	—
B11	3'-0" x 7'-0"	E	—	E	—	N	50	—	—	—	—	KP	—
B12	3'-0" x 7'-0"	N	37	N	L	N	48R	15	16	17	45min.	KP	REMOVAL NOTE #1.
B13	2'-6" x 7'-0"	E	—	E	—	N	50	—	—	—	—	KP	—
B14	3'-0" x 7'-0"	N	37	N	L	N	48R	9	10	17	20min.	KP	REMOVAL NOTE #1.
B15	3'-0" x 7'-0"	N	37	N	L	N	47R	9	10	17	20min.	KP	REMOVAL NOTE #1.
B16	2'-6" x 7'-0"	N	37	N	L	N	48R	12	13	17	20min.	KP	REMOVAL NOTE #1.
B17	6'-0" x 7'-0"	N	4	N	C	N	01	1	2	6	—	KP	REMOVAL NOTE #1.
B18	3'-0" x 7'-0"	N	18	N	E	N	18R	9	10	17	45min.	KP	REMOVAL NOTE #1.
B19	3'-0" x 7'-0"	N	37	N	L	N	48	15	16	17	45min.	KP	REMOVAL NOTE #1.

BUILDING C													
C01	3'-4" x 7'-0"	N	16	N	F	N	13	1	2	6	—	KP	REMOVAL NOTE #1.
C02	2'-0" x 7'-0"	E	—	E	—	N	54	—	—	—	—	KP	—
C03	2'-0" x 7'-0"	E	—	E	—	N	54	—	—	—	—	KP	—
C04	3'-1 1/4" x 6'-11"	N	17	N	F	N	13	7	8	6	—	KP	REMOVAL NOTE #1.
C05	3'-0" x 7'-0"	N	14	N	F	N	55	1	2	6	—	KP	REMOVAL NOTE #1.
C06	3'-4" x 7'-0"	N	16	N	F	N	13	1	2	6	—	KP	REMOVAL NOTE #1.
C07	3'-1 1/4" x 6'-11"	N	17	N	F	N	14	7	8	6	—	KP	REMOVAL NOTE #1.
C08	3'-4" x 7'-0"	N	16	N	F	N	13	1	2	6	—	KP	REMOVAL NOTE #1.
C09	3'-1 1/4" x 6'-11"	N	17	N	F	N	14	7	8	6	—	KP	REMOVAL NOTE #1.
C10	3'-4" x 7'-0"	N	16	N	F	N	13	1	2	6	—	KP	REMOVAL NOTE #1.
C11	3'-1 1/4" x 6'-11"	N	17	N	F	N	14	7	8	6	—	KP	REMOVAL NOTE #1.
C12	3'-0" x 7'-0"	N	14	N	D	N	15	1	2	6	—	KP	REMOVAL NOTE #1. 14 x 6 LOUVER ENLARGED (E) 2'-8" WIDE DOOR OPENING.
C13	2'-8" x 7'-0"	—	—	—	—	—	—	—	—	—	—	—	FILL IN (E) DOOR OPENING.
C14	3'-0" x 7'-0"	N	14	N	F	N	13	1	2	6	—	KP	REMOVAL NOTE #1.
C15	2'-8" x 7'-0"	—	—	—	—	—	—	—	—	—	—	—	REMOVAL NOTE #1. FILL IN (E) DOOR OPENING.
C16	3'-0" x 7'-0"	N	14	N	D	N	15	1	2	6	—	KP	REMOVAL NOTE #1. 14 x 6 LOUVER ENLARGED (E) 2'-8" WIDE DOOR OPENING.

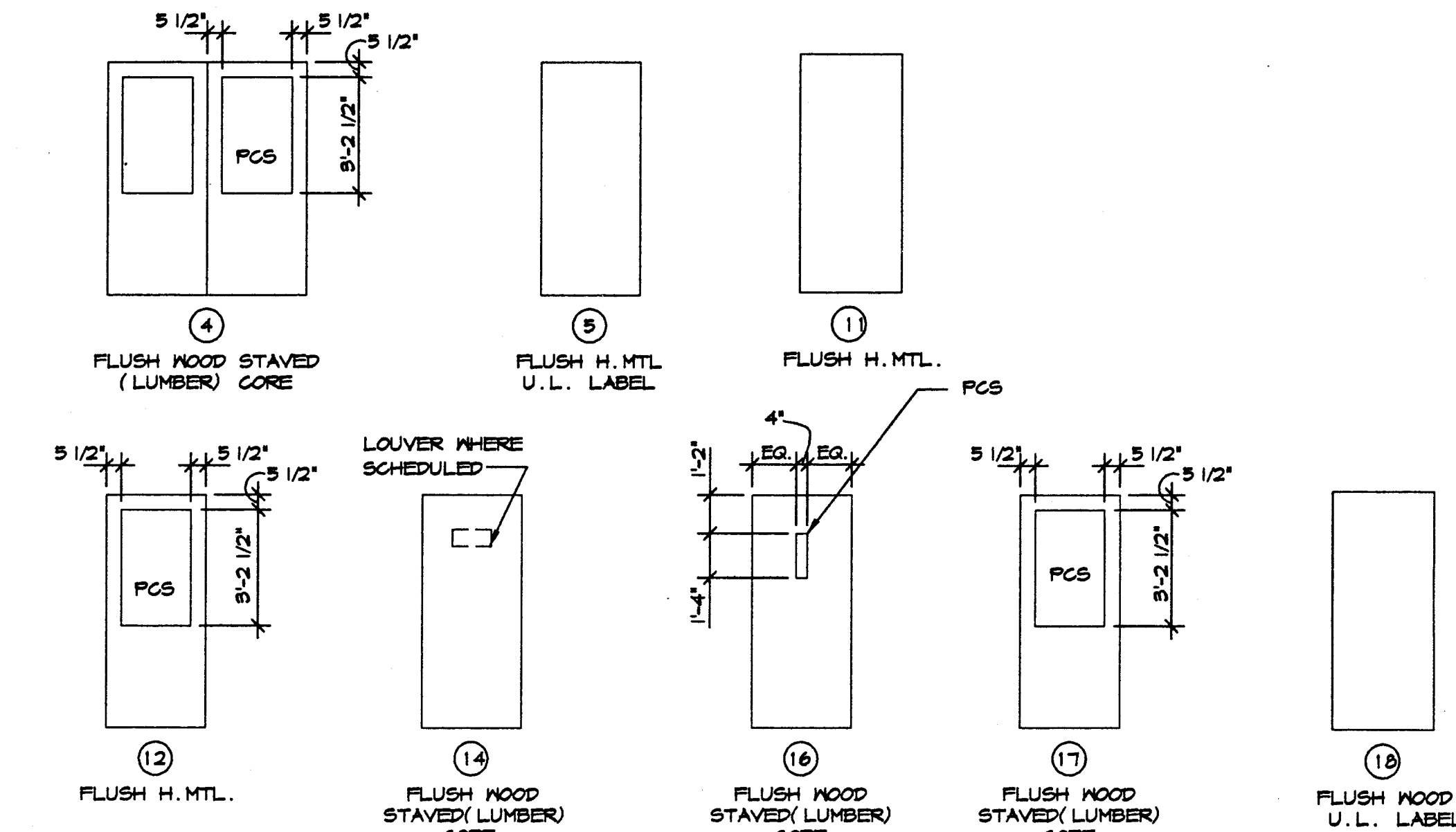
BUILDING D													
D01	3'-4" x 7'-0"	N	16	N	F	N	13	1	2	6	—	KP	REMOVAL NOTE #1.
D02	2'-0" x 7'-0"	E	—	E	—	N	54	—	—	—	—	KP	—
D03	2'-0" x 7'-0"	E	—	E	—	N	54	—	—	—	—	KP	—
D04	3'-1 1/4" x 6'-11"	N	17	N	F	N	14	7	8	6	—	KP	REMOVAL NOTE #1.
D05	3'-0" x 6'-8"	N	14	N	F	N	13	1	2	6	—	—	REMOVAL NOTE #1.
D06	3'-4" x 6'-8"	N	16	N	F	N	13	1	2	6	—	KP	REMOVAL NOTE #1.
D07	3'-8 3/4" x 7'-4 1/2"	N	17	N	F	N	14	9	10	6	—	KP	REMOVAL NOTE #1.
D08	3'-0" x 6'-8"	N	14	N	F	N	13	1	2	6	—	—	REMOVAL NOTE #1.
D09	3'-4" x 6'-8"	N	16	N	F	N	13	1	2	6	—	KP	REMOVAL NOTE #1.
D10	3'-8 3/4" x 7'-4 1/2"	N	17	N	F	N	14	9	10	6	—	KP	REMOVAL NOTE #1.
D11	3'-0" x 6'-8"	N	14	N	F	N	13	1	2	6	—	—	REMOVAL NOTE #1.
D12	3'-0" x 6'-8"	N	14	N	D	N	16	9	10	6	—	KP	REMOVAL NOTE #1. 14 x 6 LOUVER.
D13	3'-0" x 6'-8"	N	14	N	D	N	16	9	10	6	—	KP	REMOVAL NOTE #1. 14 x 6 LOUVER.
D14	3'-0" x 6'-8"	N	18	N	E	N	18R	9	10	6	45 MIN.	—	REMOVAL NOTE #1.
D15	1'-10" x 6'-8"	N	14	N	F	N	13	1	2	6	—	KP	REMOVAL NOTE #1.
D16	2'-0" x 6'-8"	N	14	N	F	N	13	1	2	6	—	KP	REMOVAL NOTE #1.
D17	2'-0" x 6'-8"	N	14	N	F	N	13	1	2	6	—	KP	REMOVAL NOTE #1.
D18	3'-2" x 6'-8"	N	17	N	F	N	13	1	2	6	—	KP	REMOVAL NOTE #1.
D19	3'-4" x 6'-8"	N	16	N	F	N	13	1	2	6	—	KP	REMOVAL NOTE #1.

SHEET NOTES

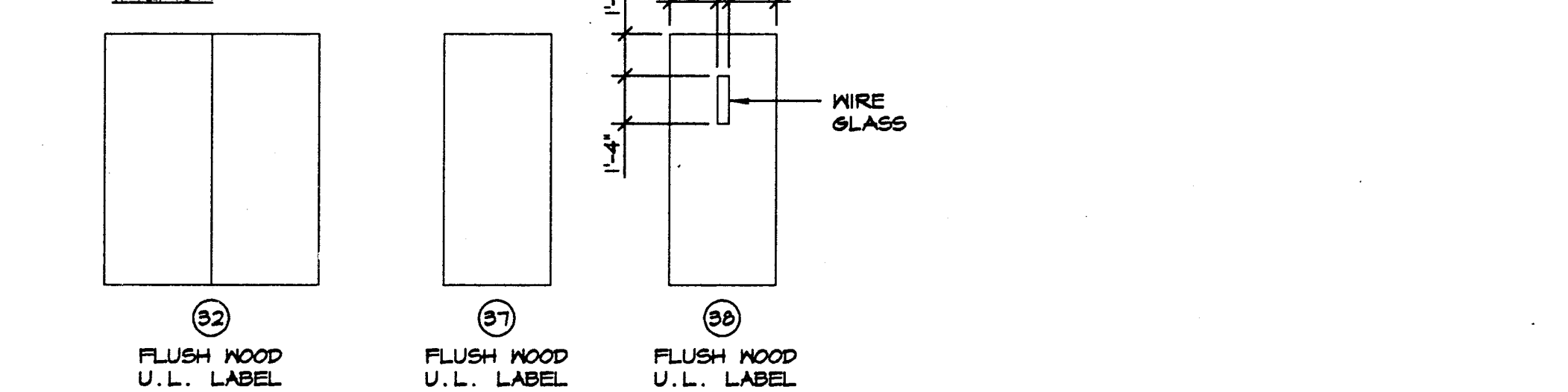
INDICATES EXTERIOR DOOR OPENING
N - INDICATES NEW
E - INDICATES EXISTING
WEATHER STRIP AROUND ALL EXTERIOR DOORS

(N) DOOR TYPES

EXTERIOR



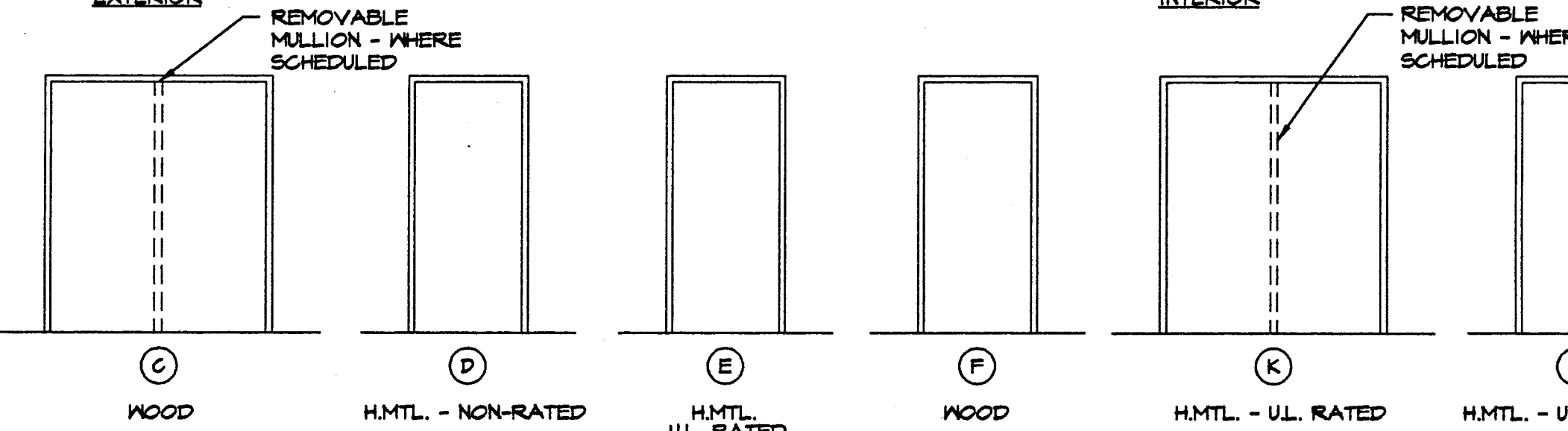
INTERIOR



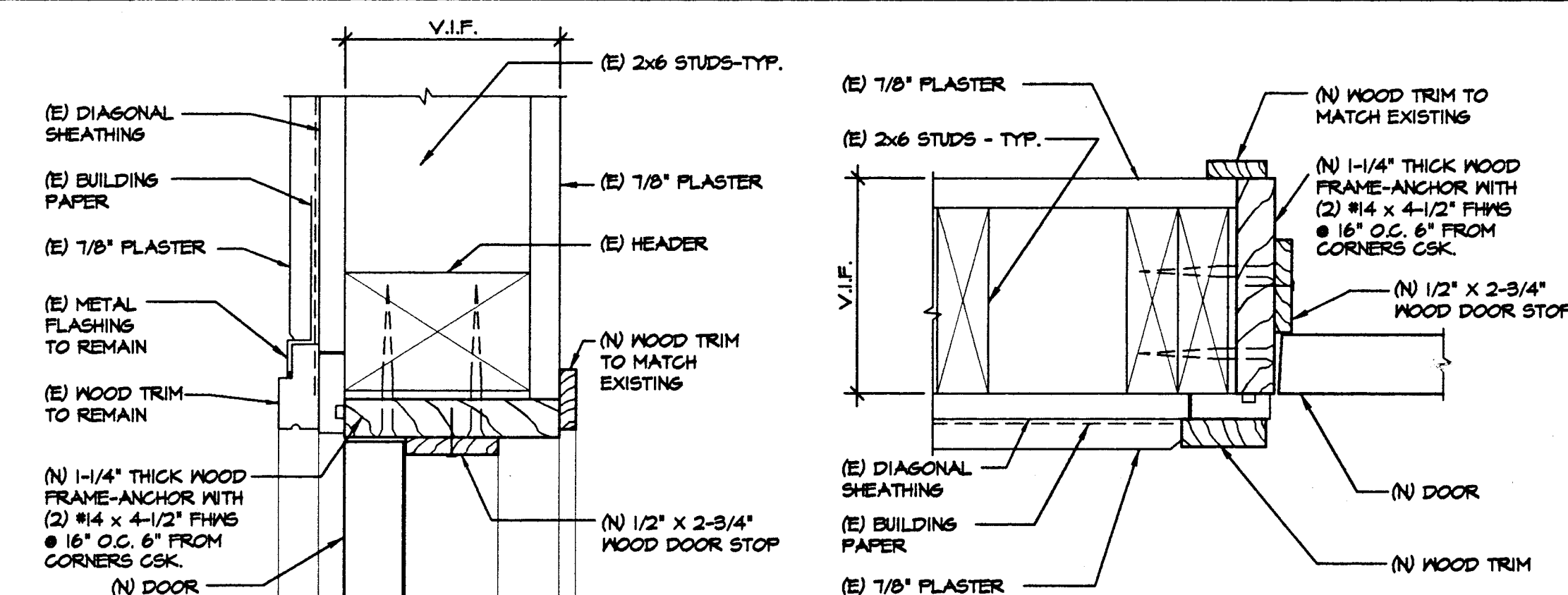
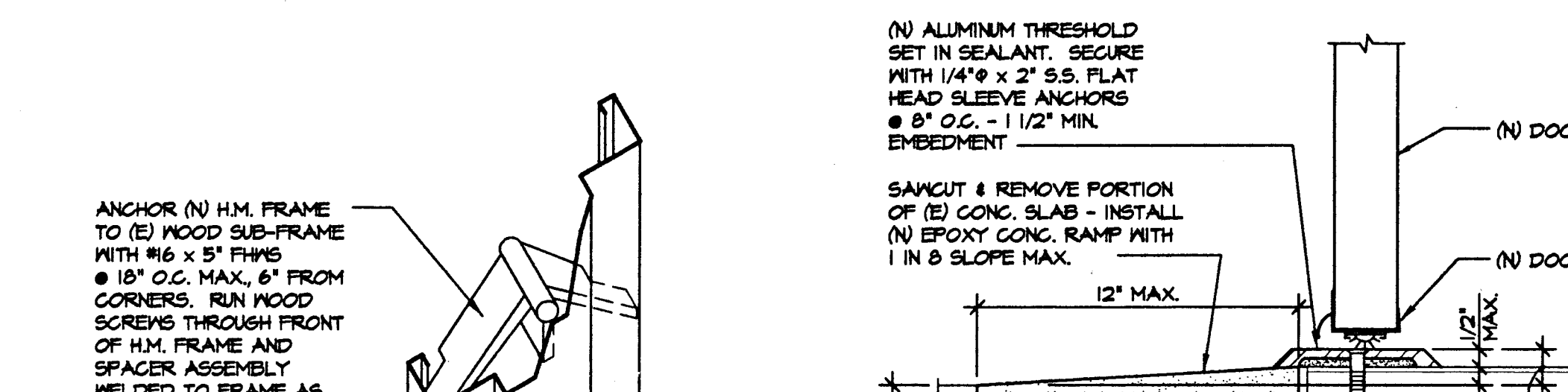
PCS - POLYCARBONATE SHEET - TYPE I

(N) FRAME TYPES

EXTERIOR



INTERIOR



1 DOOR HEAD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

2 DOOR JAMB DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

3 DOOR HEAD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

4 DOOR JAMB DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

5 EXTERIOR H.M. DOOR FRAME ANCHORAGE
A-5 NOT TO SCALE AXONOMETRIC

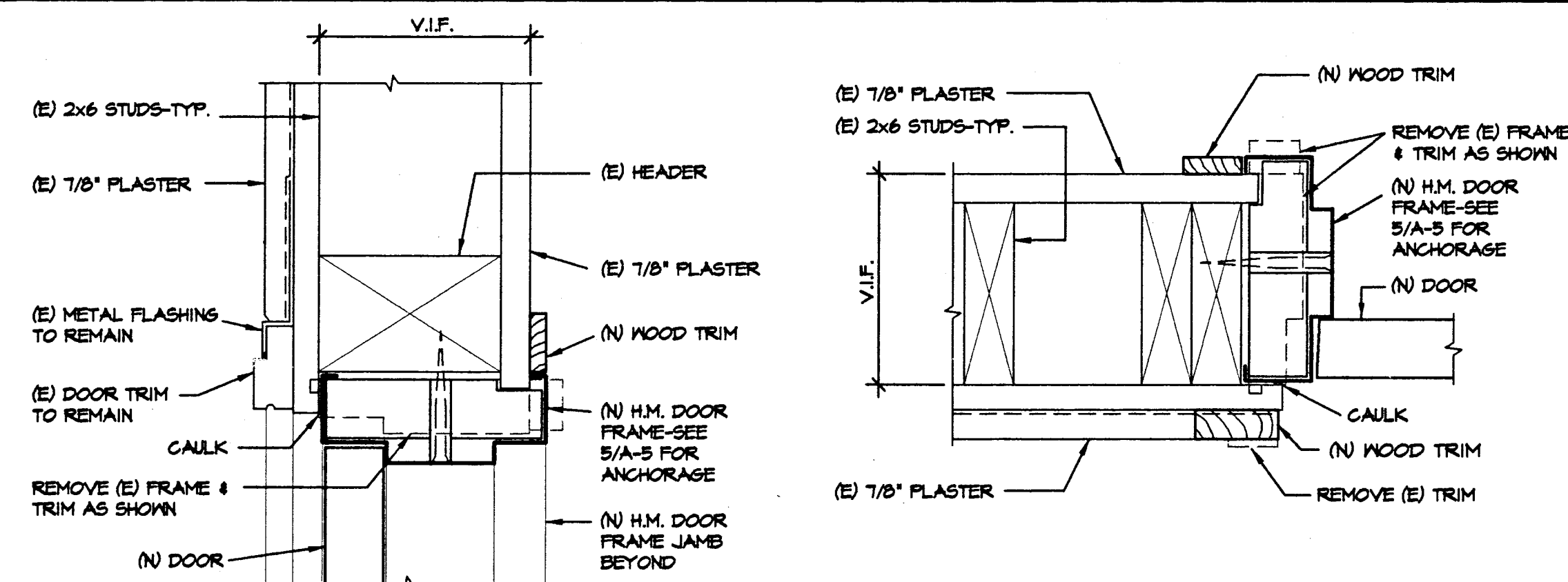
6 THRESHOLD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

7 DOOR HEAD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR AT TRANSOM

8 DOOR JAMB DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR AT MULLION

9 DOOR HEAD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR AT TRANSOM

10 DOOR JAMB DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR AT MULLION



1 DOOR HEAD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

2 DOOR JAMB DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

3 DOOR HEAD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

4 DOOR JAMB DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

5 EXTERIOR H.M. DOOR FRAME ANCHORAGE
A-5 NOT TO SCALE AXONOMETRIC

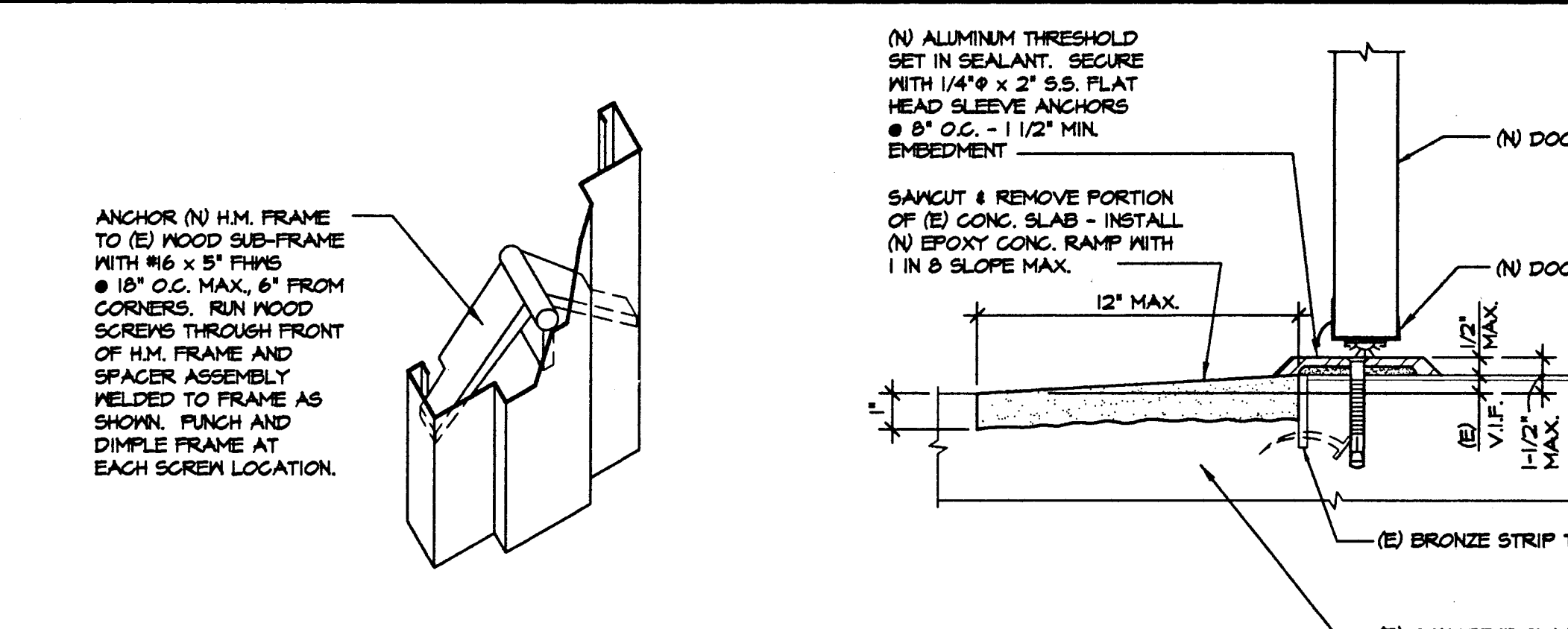
6 THRESHOLD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

7 DOOR HEAD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR AT TRANSOM

8 DOOR JAMB DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR AT MULLION

9 DOOR HEAD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR AT TRANSOM

10 DOOR JAMB DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR AT MULLION



1 DOOR HEAD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

2 DOOR JAMB DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

3 DOOR HEAD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

4 DOOR JAMB DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

5 EXTERIOR H.M. DOOR FRAME ANCHORAGE
A-5 NOT TO SCALE AXONOMETRIC

6 THRESHOLD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR

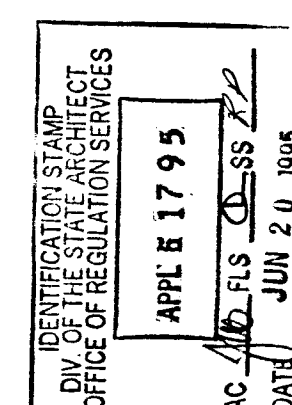
7 DOOR HEAD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR AT TRANSOM

8 DOOR JAMB DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR AT MULLION

9 DOOR HEAD DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR AT TRANSOM

10 DOOR JAMB DETAIL
A-5 SCALE: 3/8"=1'-0" EXTERIOR AT MULLION

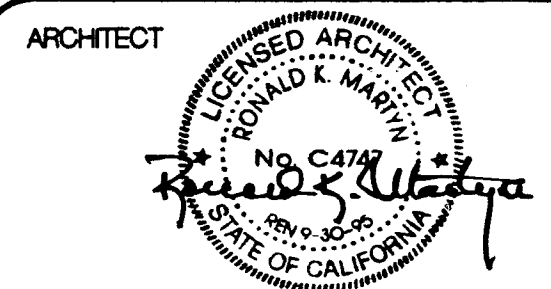
APPROVALS



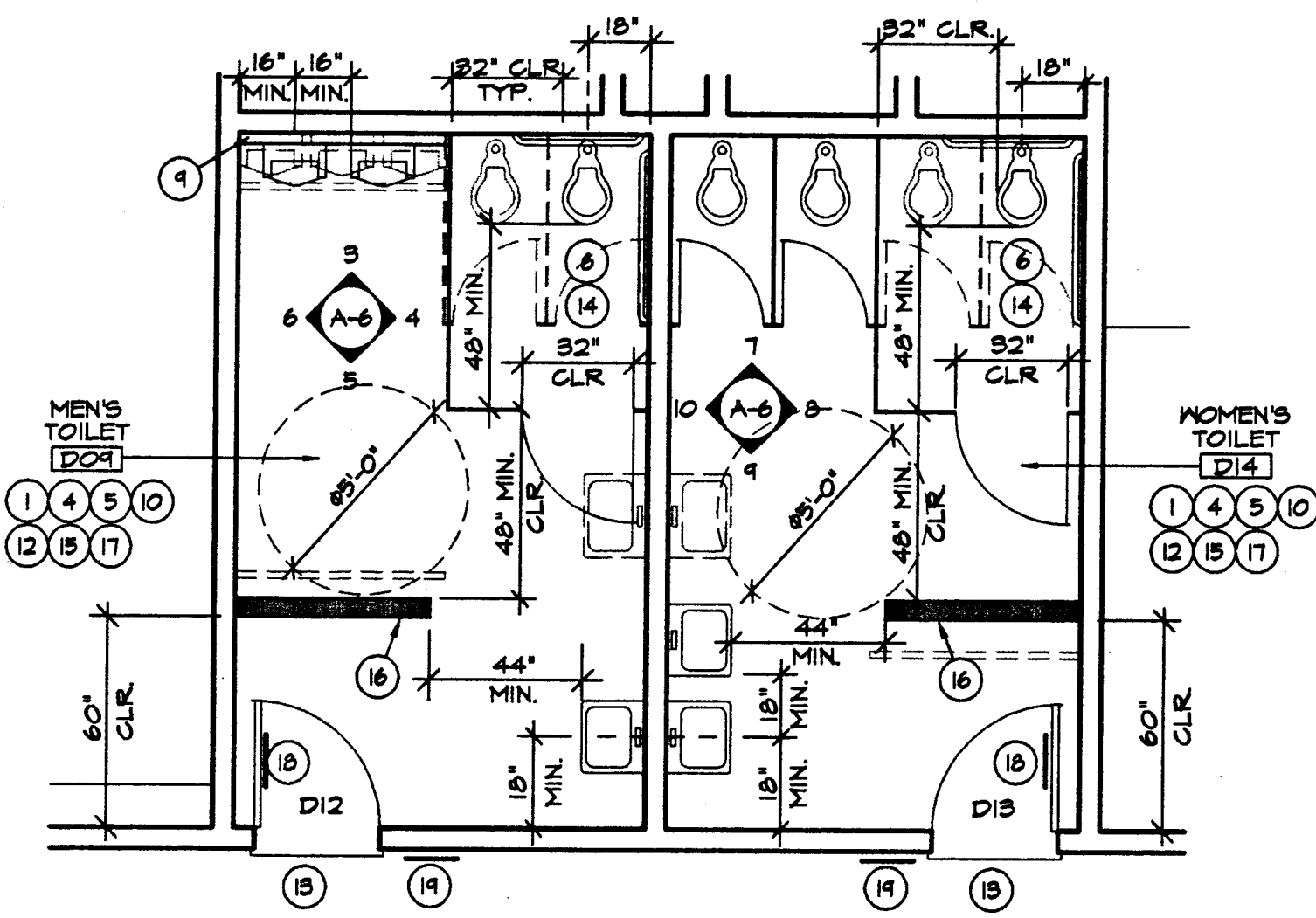
CONSULTANT

MODERNIZATION AT
HIGHLAND
ELEMENTARY SCHOOL
FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

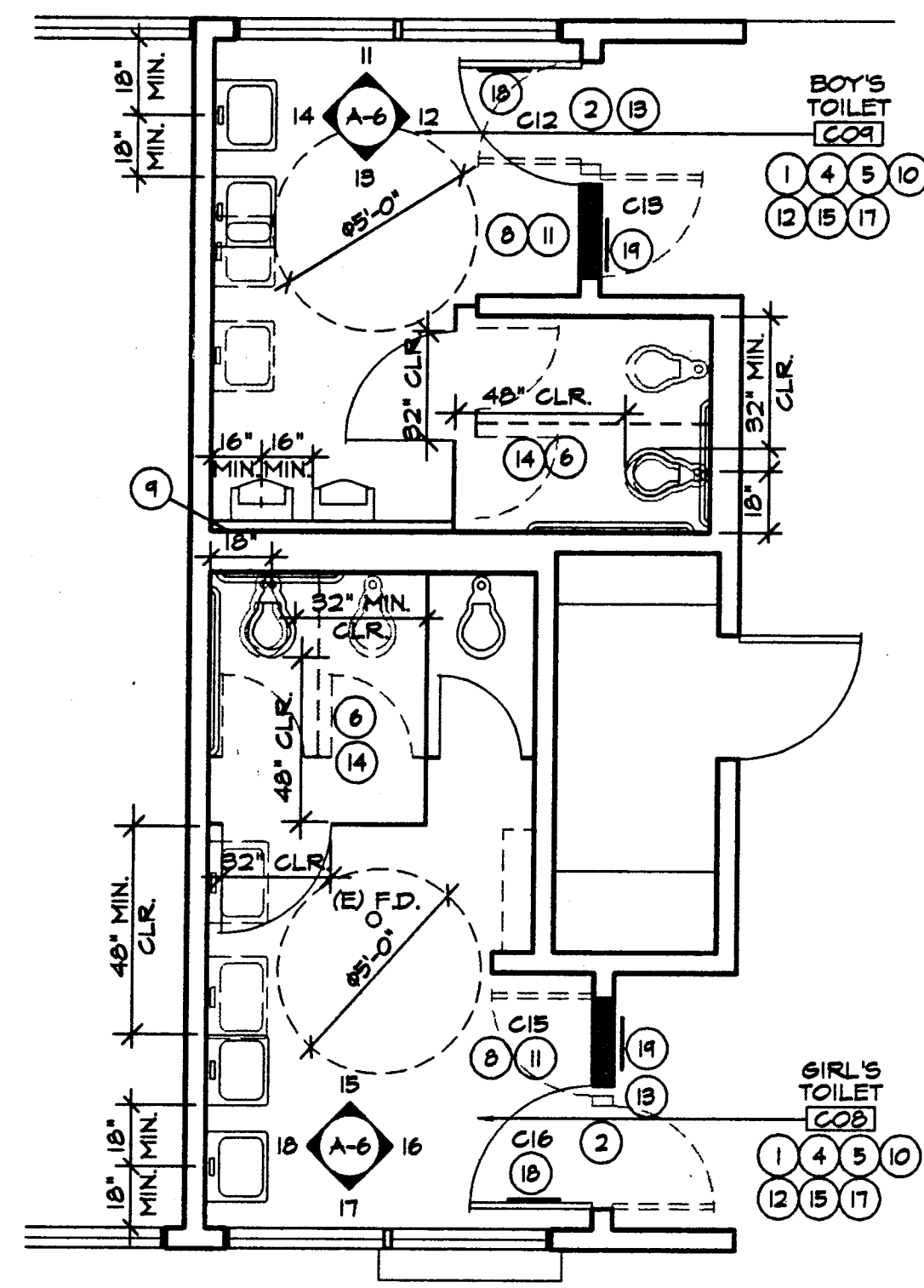
USE OF ASSOCIATED ARCHITECTS' DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS FOR THE PROJECT ARE INSTRUMENTS OF ASSOCIATED ARCHITECTS' SERVICES FOR USE SOLELY WITH RESPECT TO THIS PROJECT AND UNLESS OTHERWISE PROVIDED ASSOCIATED ARCHITECTS SHALL BE DEEMED THE AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW STATUTORY AND OTHER RIGHTS INCLUDING THE COPYRIGHT. THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF THE PROJECT AND UNLESS OTHERWISE PROVIDED ASSOCIATED ARCHITECTS' DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS FOR INFORMATION AND REFERENCE IN CONNECTION WITH THE OWNERS USE AND OCCUPANCY OF THE PROJECT. ASSOCIATED ARCHITECTS SHALL NOT BE USED BY THE OWNER OR OTHERS ON OTHER PROJECTS OR ADDITIONS TO THE PROJECT OR FOR COMPLETION OF THE PROJECT BY OTHERS UNLESS ASSOCIATED ARCHITECTS IS ADDITIONALLY TO BE IN DEFAULT UNDER THE AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO ASSOCIATED ARCHITECTS.



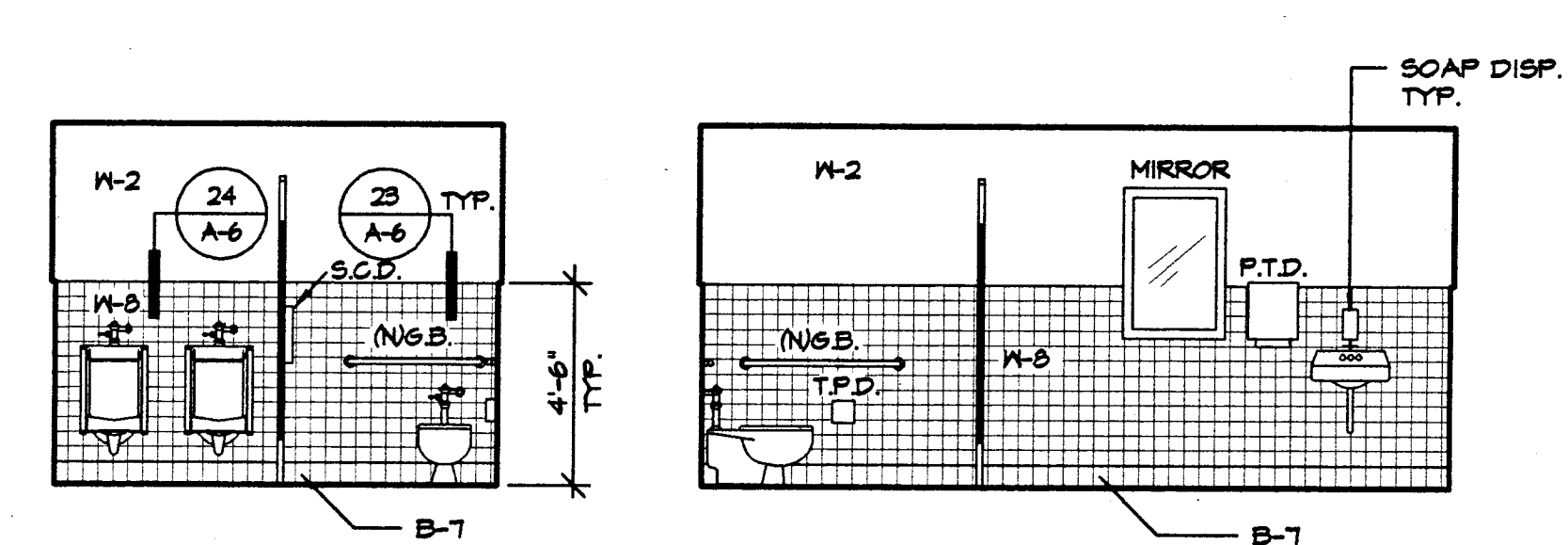
NOTE: THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AT THE JOB AND SHALL BE RESPONSIBLE FOR ALL DISCREPANCIES BETWEEN DIMENSIONS OF THE ACTUAL WORK AND THOSE SHOWN IN THE DRAWINGS OR ARCHITECTS APPROVED SHOP DRAWINGS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL QUANTITIES OF MATERIAL AND EQUIPMENT CALLED FOR TO PROPERLY COMPLETE THE WORK.



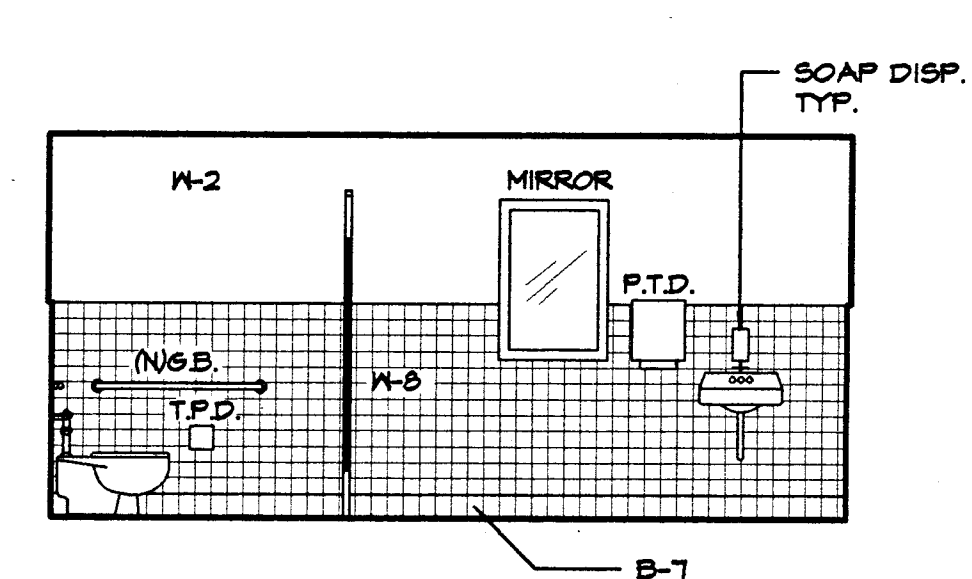
1 DETAIL FLOOR PLAN--FACULTY TOILET ROOMS--
A-6 SCALE: 1/4" = 1'-0" BUILDING D



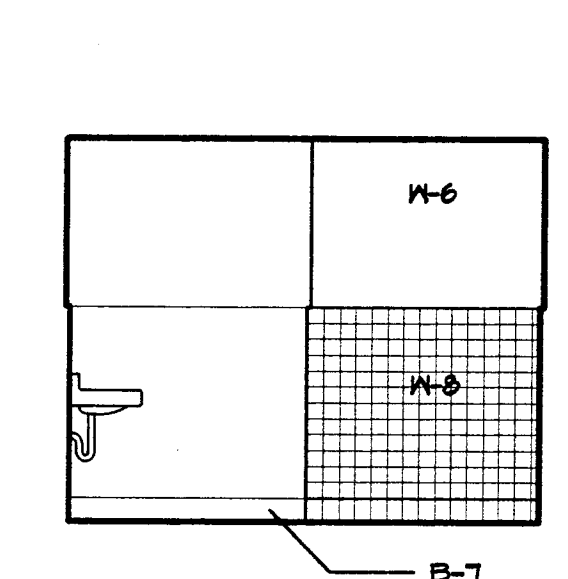
2 DETAIL FLOOR PLAN--STUDENT TOILET ROOMS--
A-6 SCALE: 1/4" = 1'-0" BUILDING C



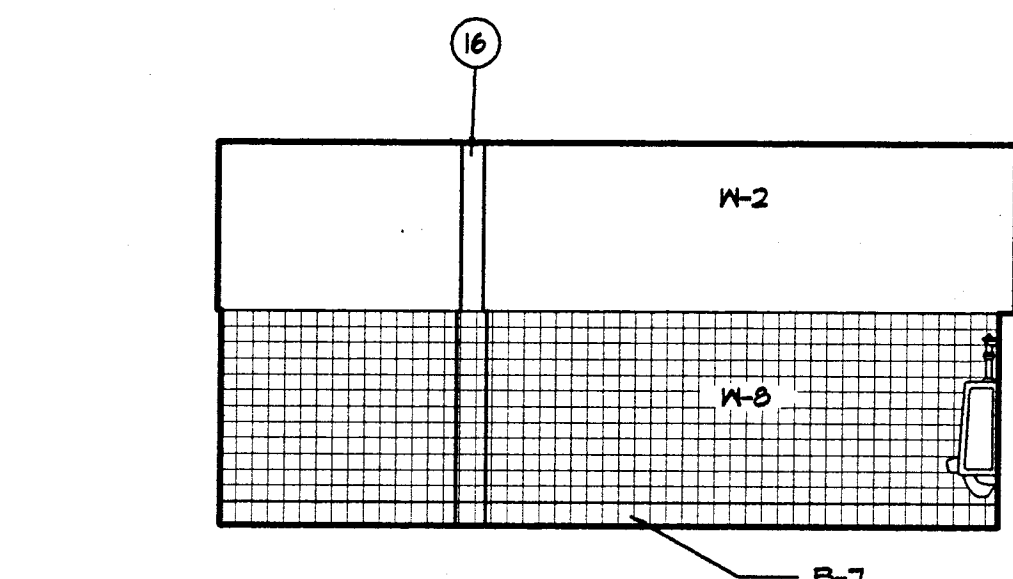
3 MEN'S - DO9
A-6 SCALE: 1/4" = 1'-0" TYPICAL ALL TOILET ELEVATIONS



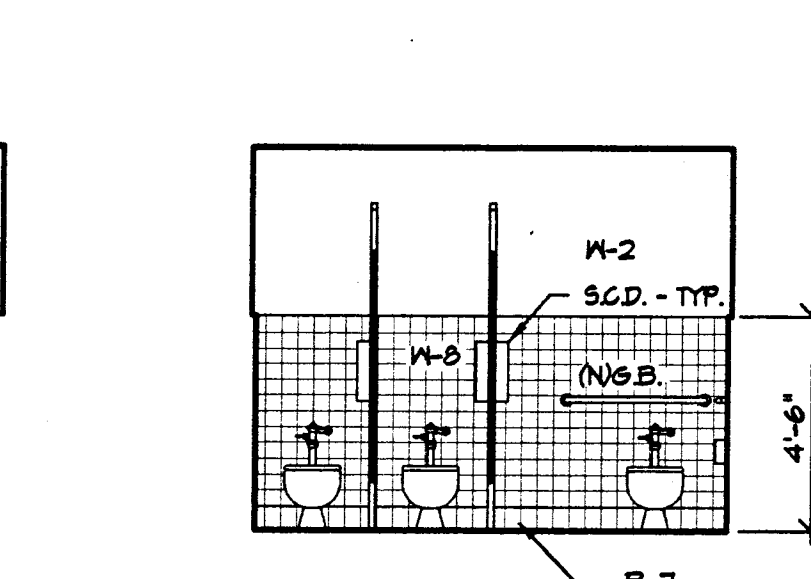
4 MEN'S - DO9
A-6



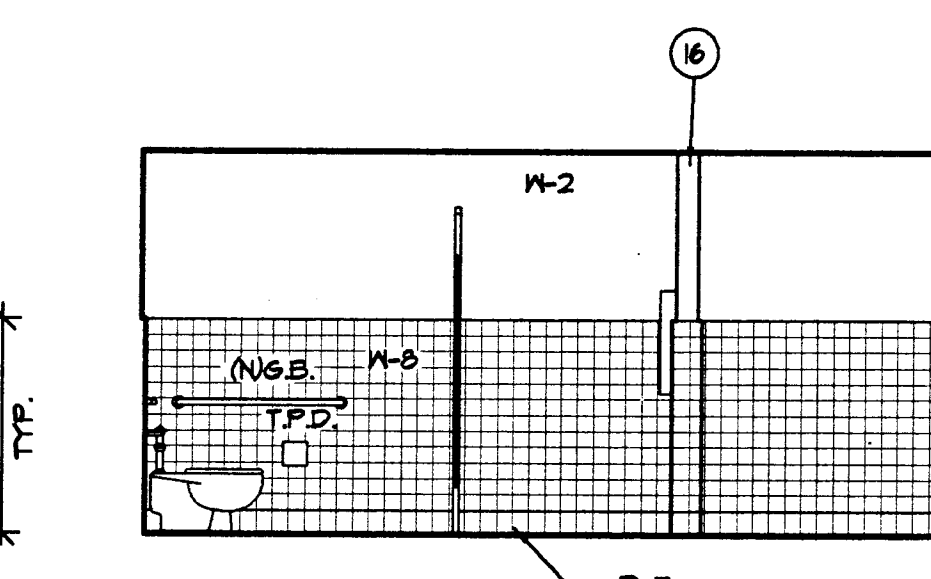
5 MEN'S - DO9
A-6



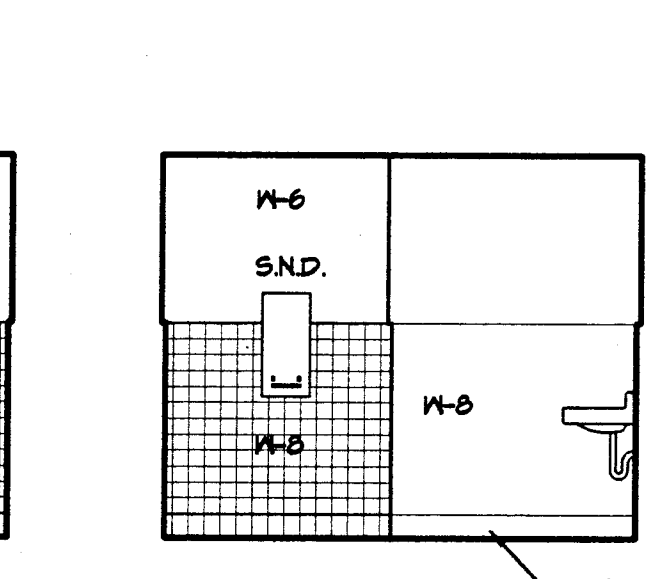
6 MEN'S - DO9
A-6



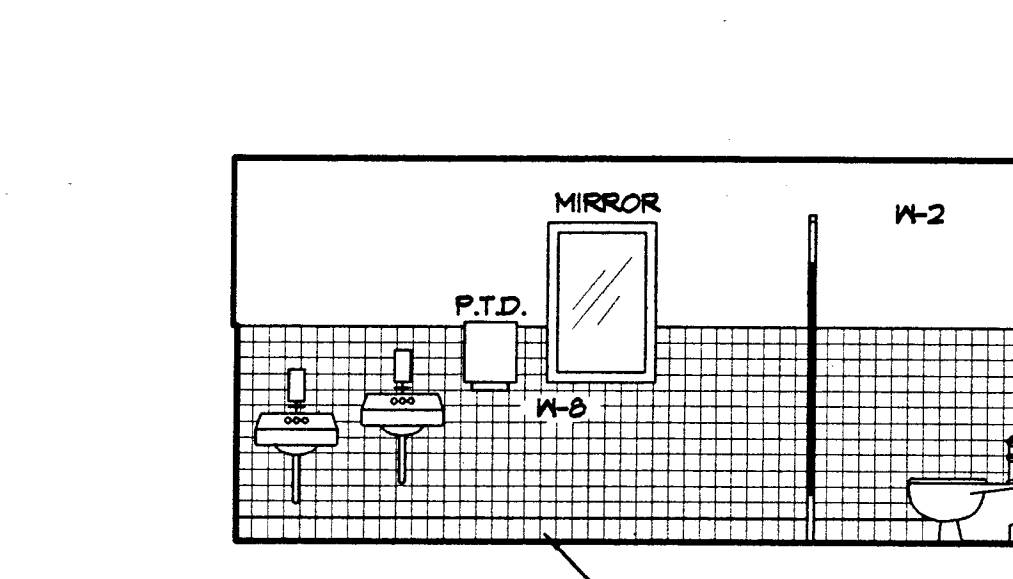
7 WOMEN'S - D14
A-6



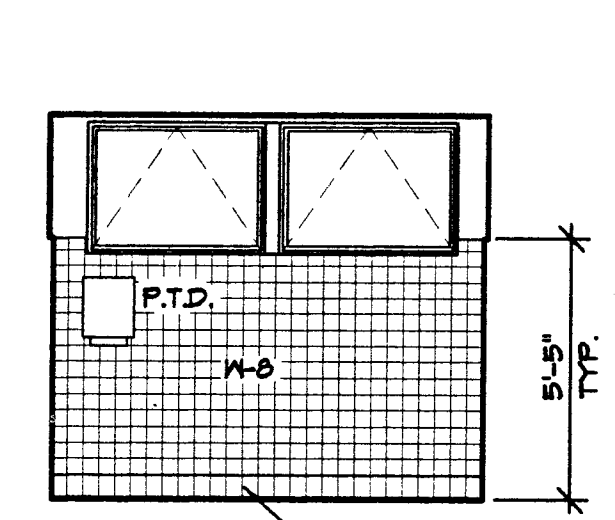
8 WOMEN'S - D14
A-6



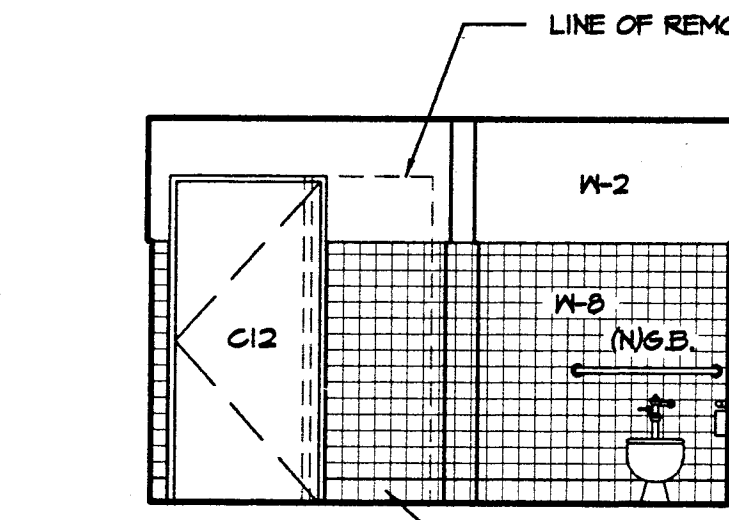
9 WOMEN'S - D14
A-6



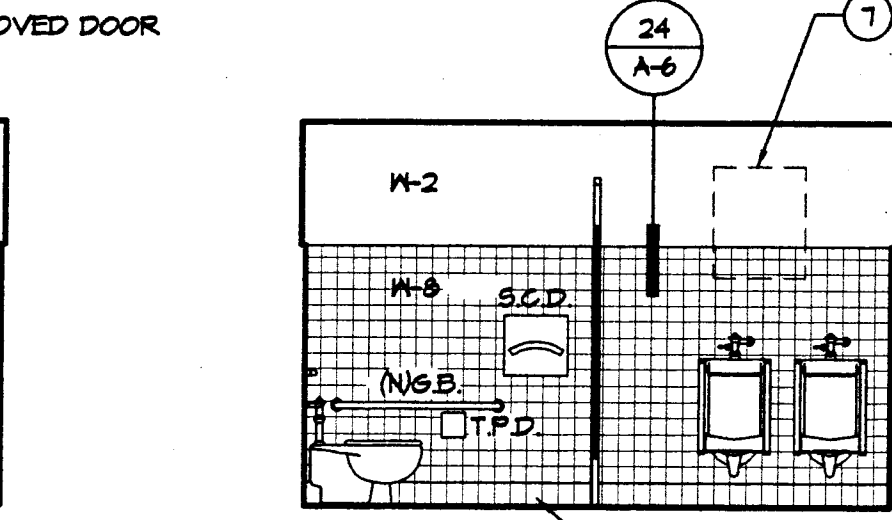
10 WOMEN'S - D14
A-6



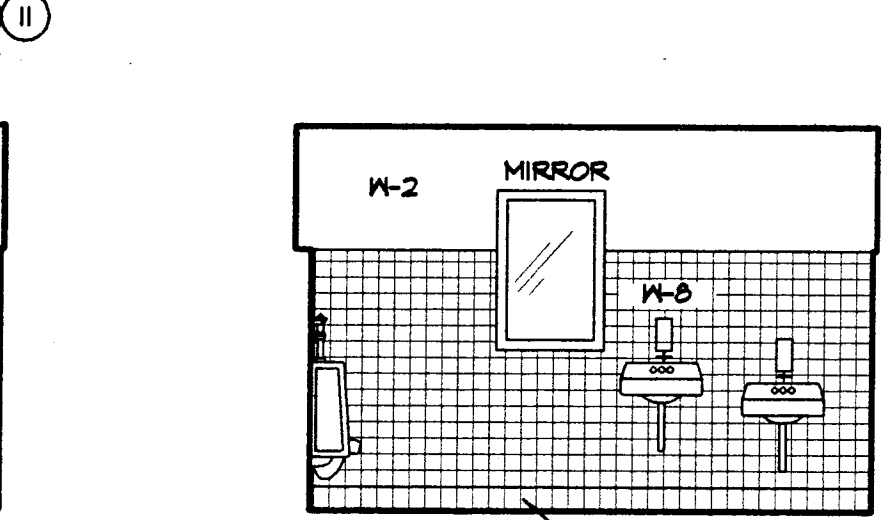
11 BOYS - CO9
A-6



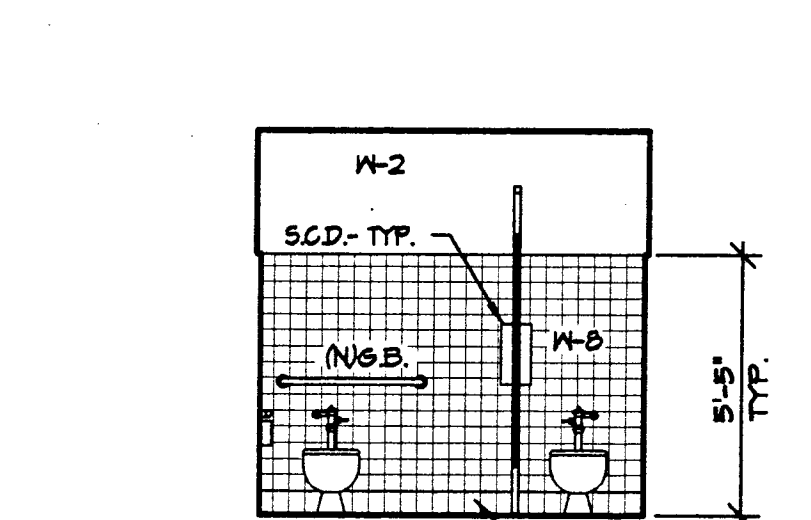
12 BOYS - CO9
A-6



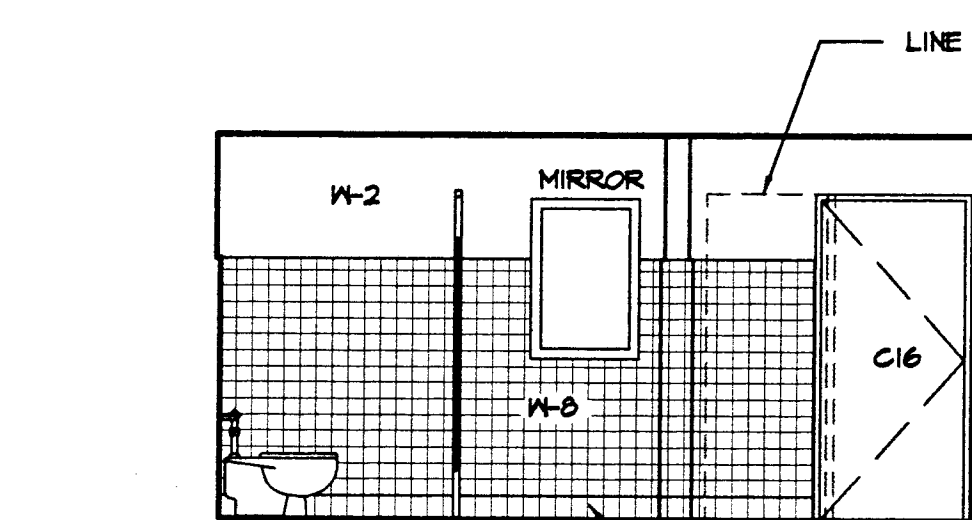
13 BOYS - CO9
A-6



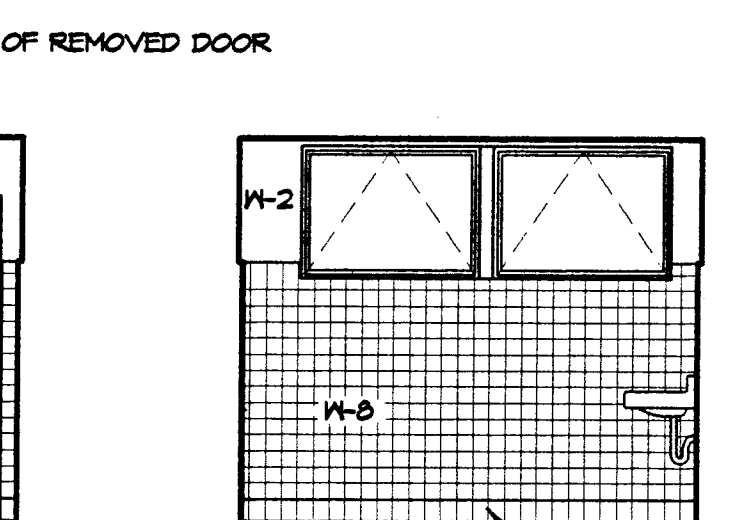
14 BOYS - CO9
A-6



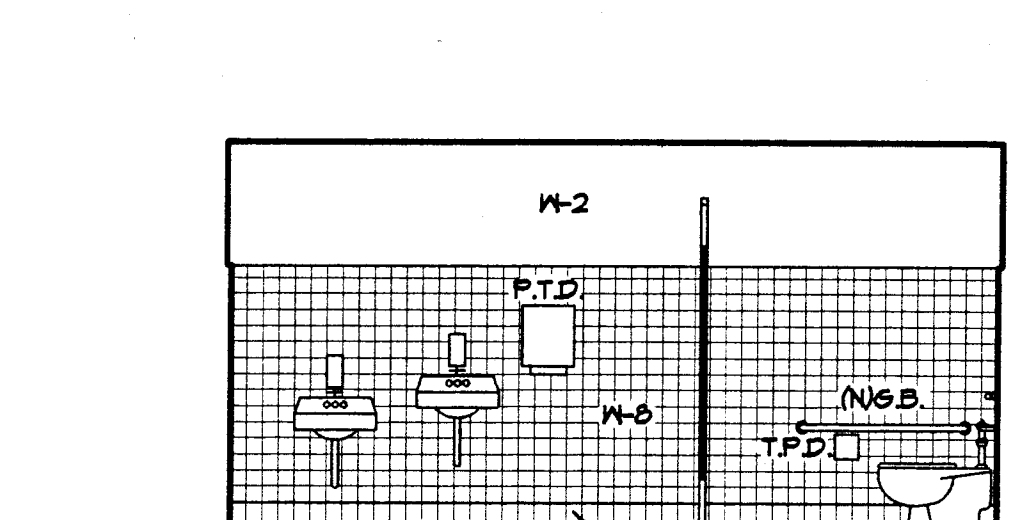
15 GIRLS - COB
A-6



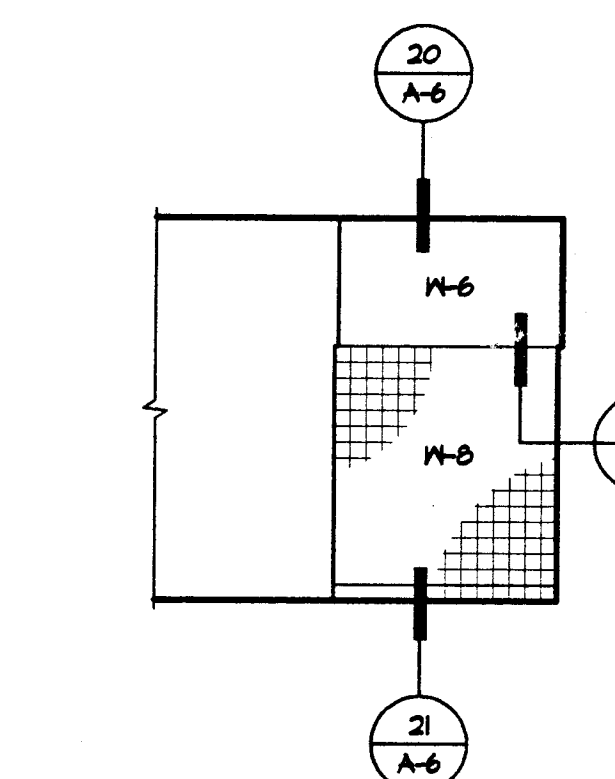
16 GIRLS - COB
A-6



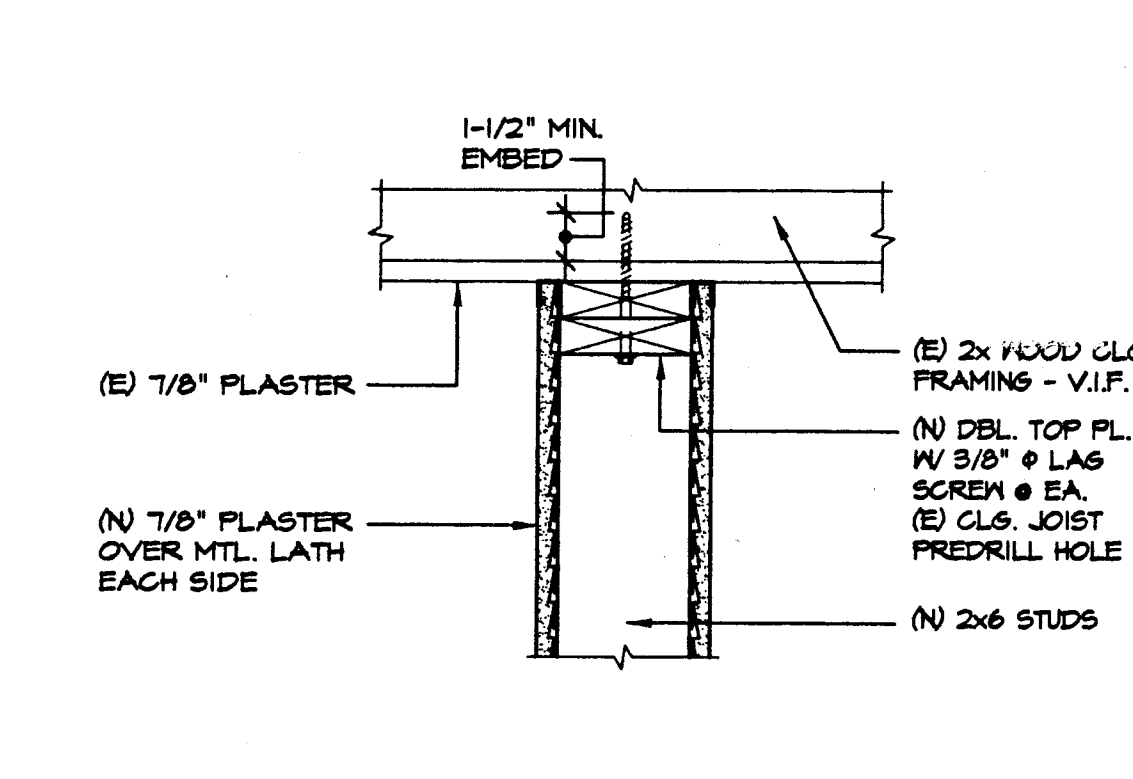
17 GIRLS - COB
A-6



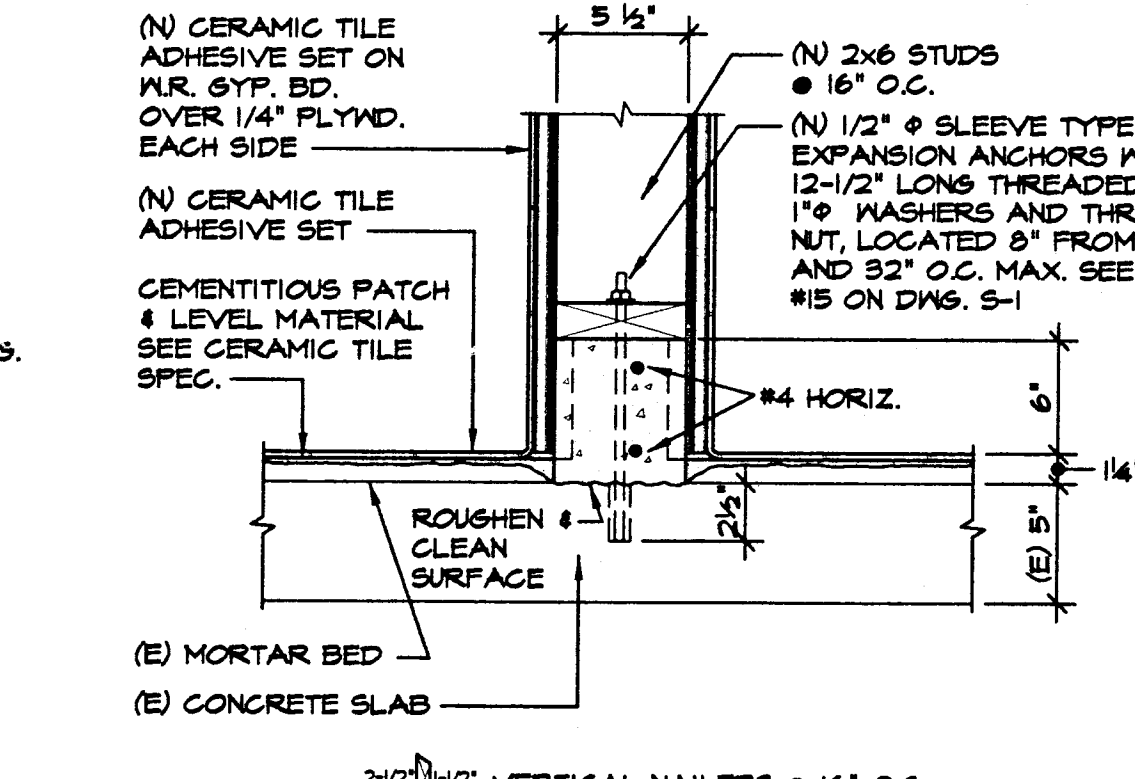
18 GIRLS - COB
A-6



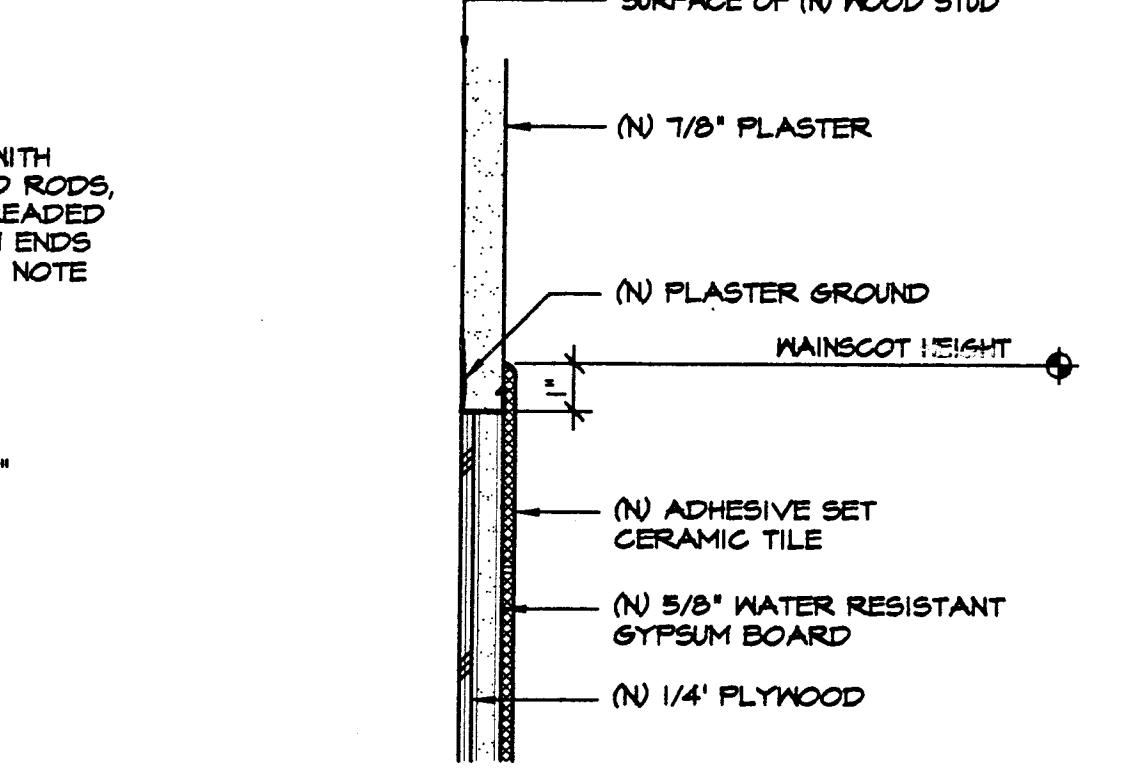
19 ELEVATION - (N) WOOD STUD PARTITION
A-6 SCALE: 1/4" = 1'-0" TOILETS DO9 & D14 NON-BEARING



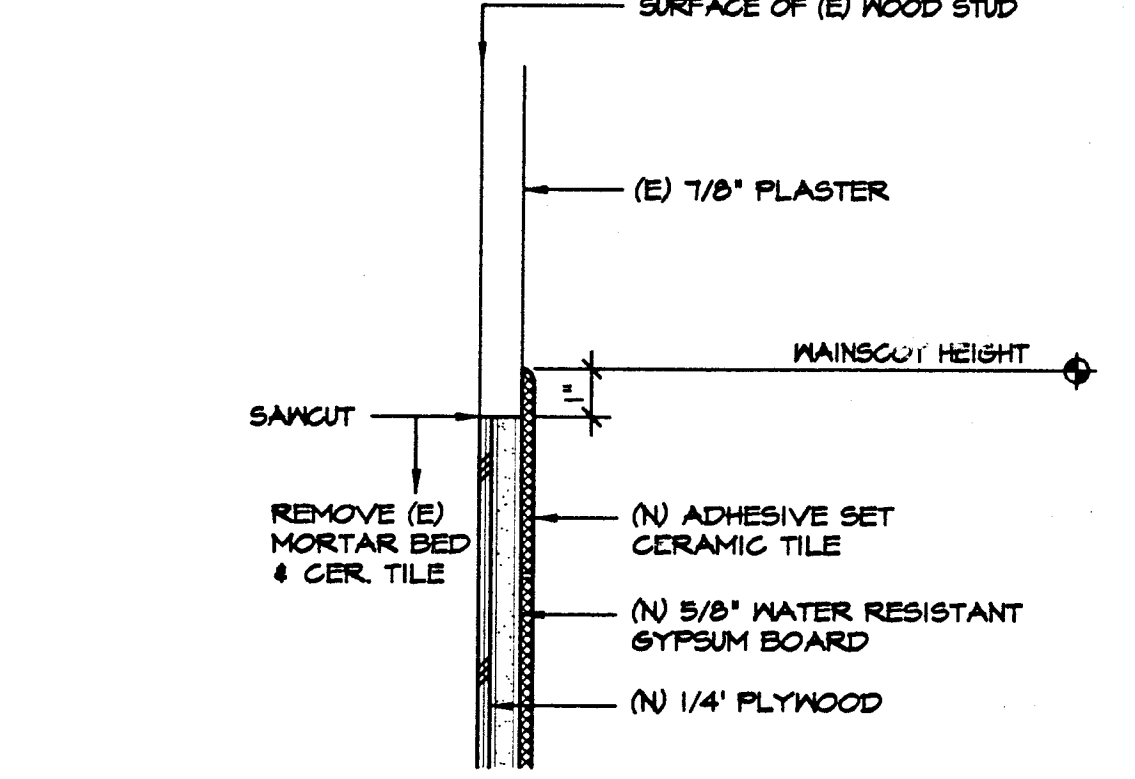
20 PARTITION ANCHORAGE @ HEAD
A-6 SCALE: 1/2" = 1'-0"



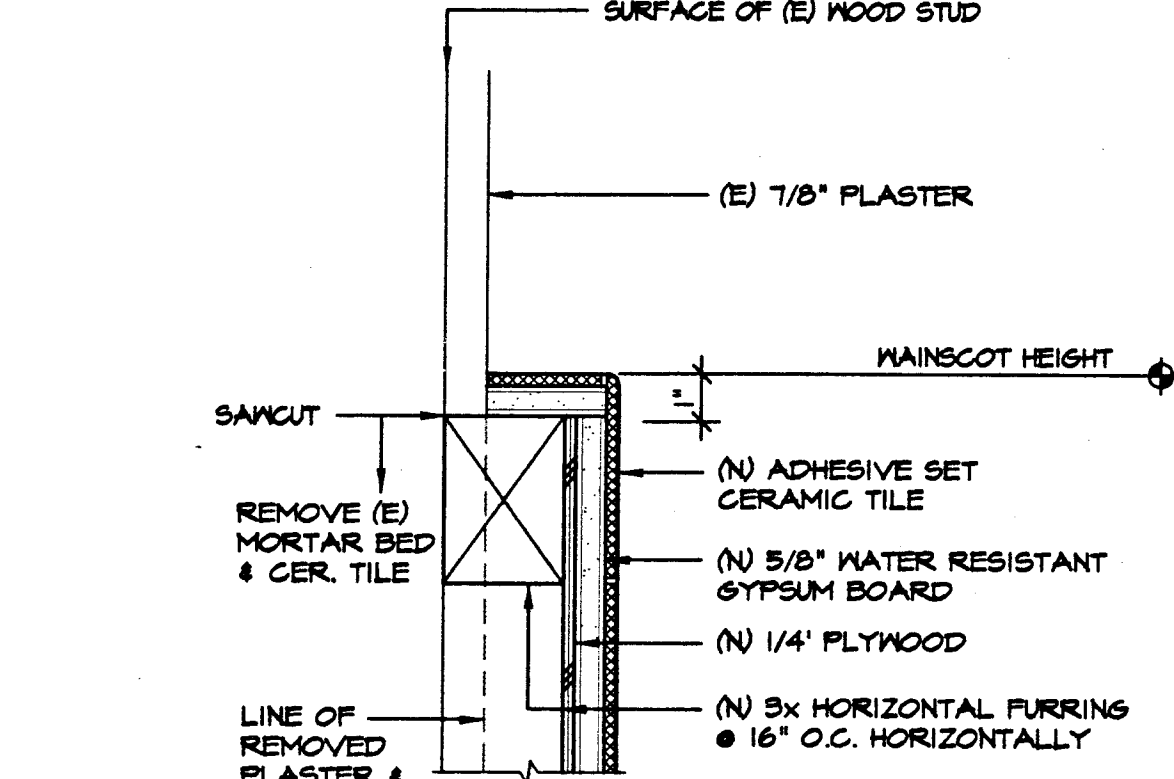
21 PARTITION ANCHORAGE @ SILL
A-6 SCALE: 1/2" = 1'-0"



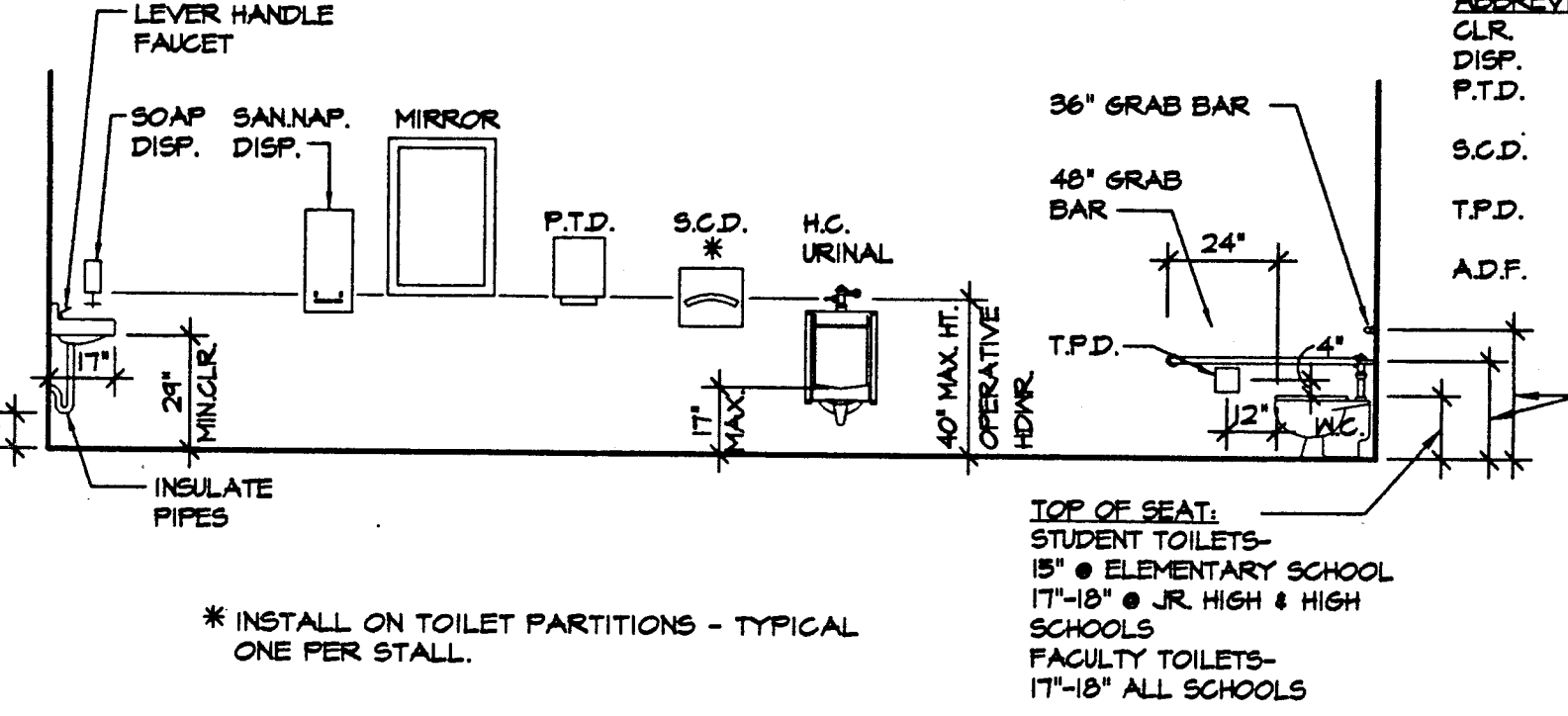
22 TOP OF (N) WAINSCOT DETAIL
A-6 SCALE: 3" = 1'-0" (N) PARTITION



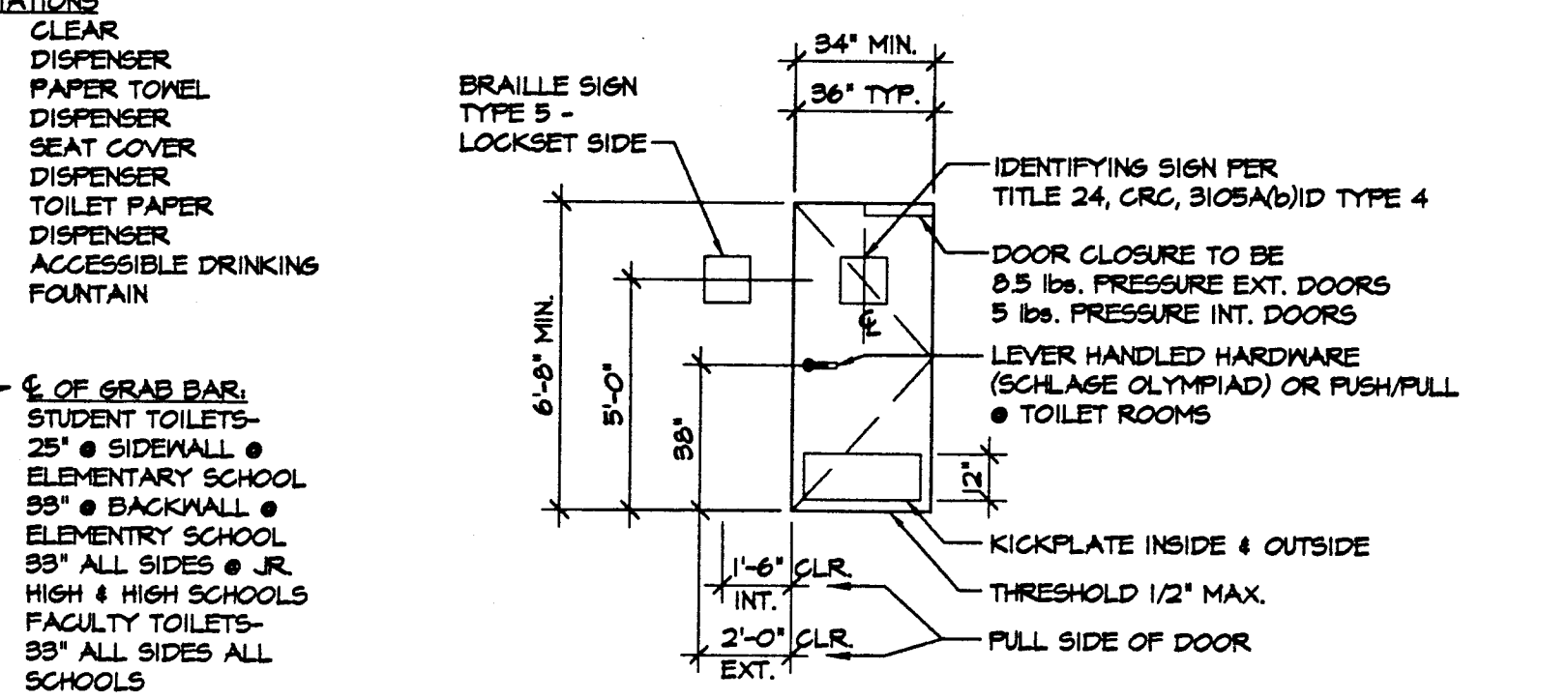
23 TOP OF (N) WAINSCOT DETAIL
A-6 SCALE: 3" = 1'-0" (E) WALL



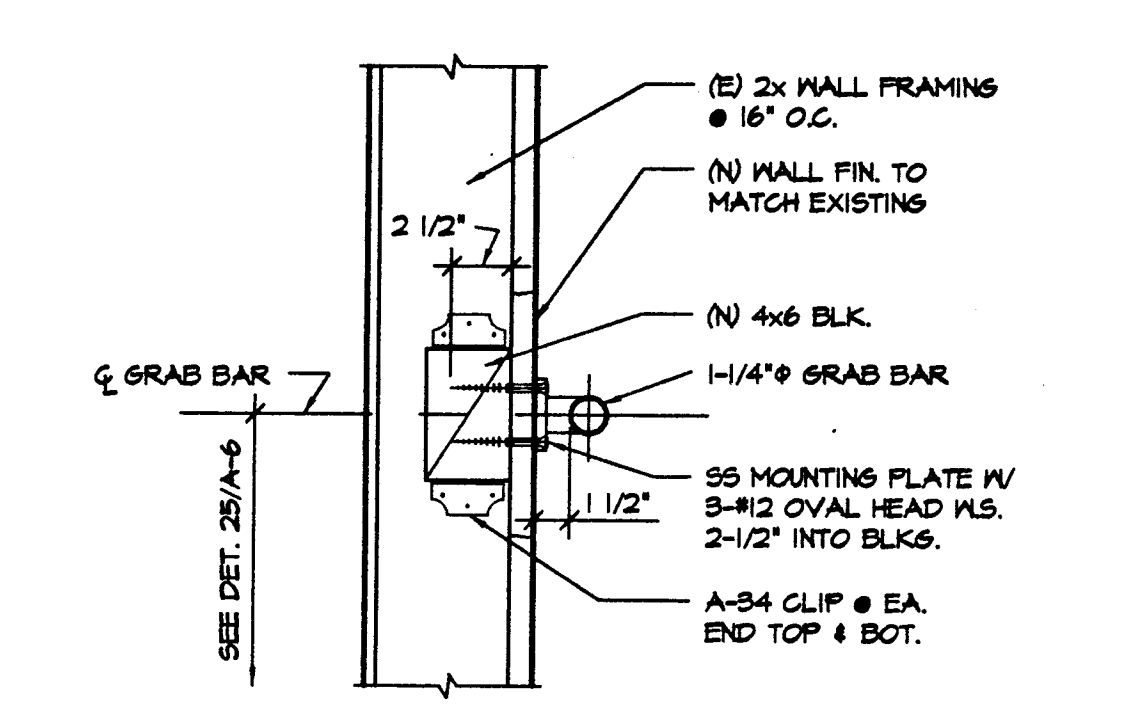
24 TOP OF (N) WAINSCOT DETAIL
A-6 SCALE: 3" = 1'-0" (E) WALL W/ (N) FURRINGS



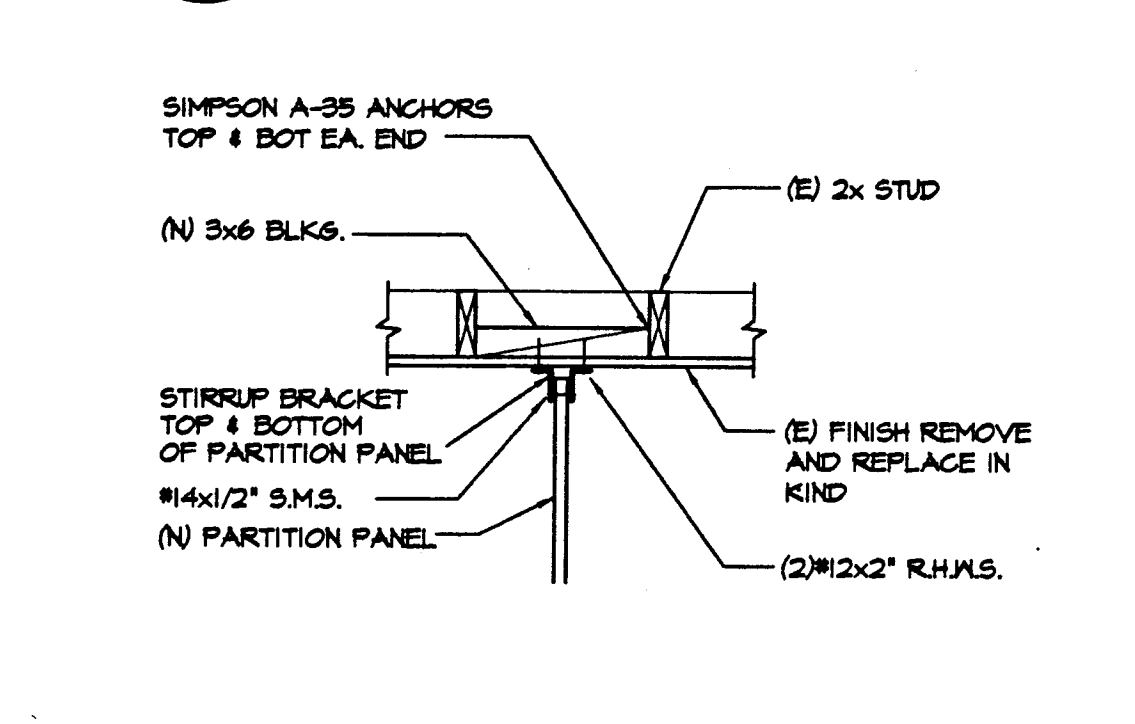
25 TOILET ROOM MOUNTING HEIGHTS - ACCESSIBLE FIXTURES
A-6 NO SCALE



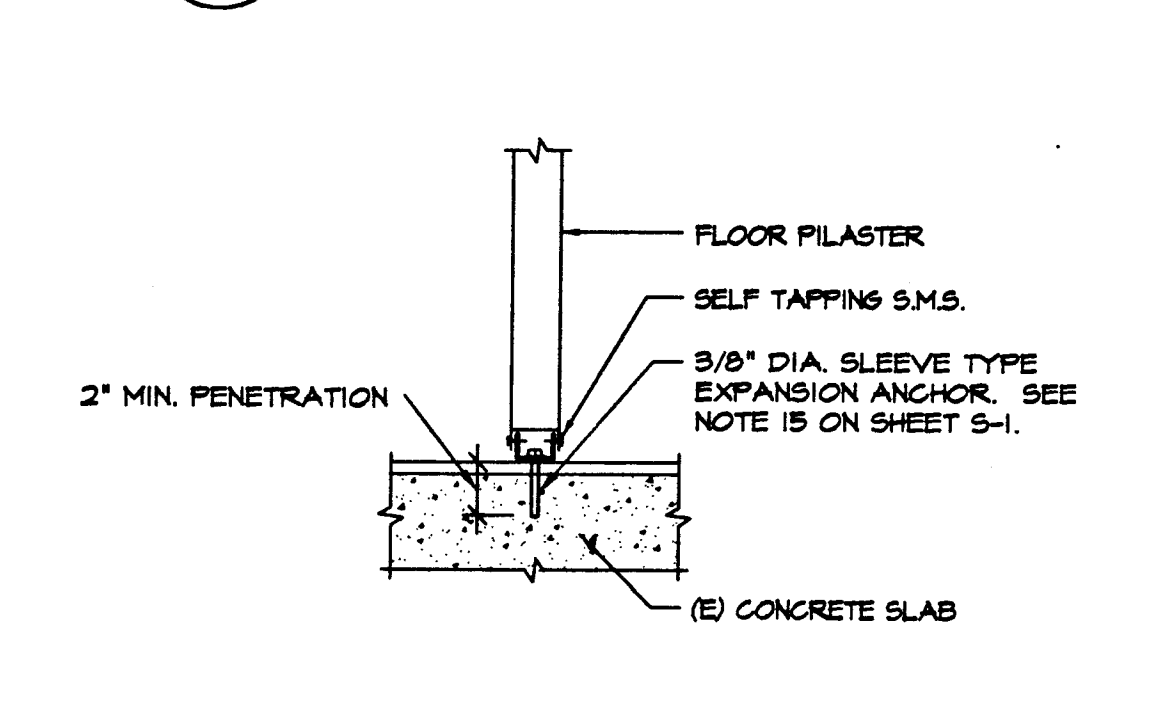
26 TYPICAL TOILET ROOM DOOR DETAIL
A-6 NO SCALE



27 GRAB BAR MOUNTING
A-6 SCALE: 1/2" = 1'-0"



28 FLOOR CONNECTION
A-6 SCALE: 3/4" = 1'-0" TOILET PARTITION

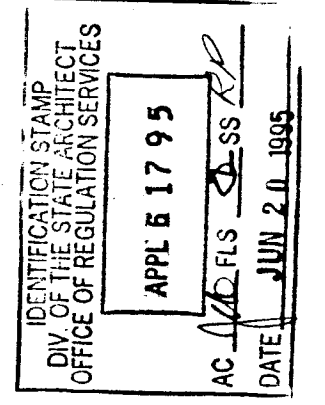


29 WALL CONNECTION
A-6 SCALE: 3/4" = 1'-0" TOILET PARTITION

REMOVAL AND CONSTRUCTION NOTES (FOR DRAWING 15/A-6 ONLY)

- SEE PLUMBING DRAWINGS FOR FIXTURE REMOVALS.
- REMOVE (E) DOOR, DOOR FRAME AND SECTIONS OF WALL AS SHOWN, INCLUDING CONCRETE CURB.
- NOT USED
- REMOVE (E) CERAMIC TILE MAINSCOT THIS SPACE, INCLUDING MIRROR SHELF WHERE OCCURS. SANKUT PLASTER DIRECTLY ABOVE TOP OF (E) TILE.
- REMOVE (E) CERAMIC TILE FLOOR COVERING THIS SPACE.
- REMOVE (E) TOILET PARTITIONS AS SHOWN.
- REMOVE (E) FLUSH VALVE BOX. SEE MECHANICAL DRAWINGS.
- FRAME IN (E) DOOR OPENING. SEE DETAILS 2/A-6/1-A-6/1-A-6 & 6/A-6.
- INSTALL (N) 3x HORIZONTAL FURRING AS SHOWN THIS LOCATION, UP TO HEIGHT OF MAINSCOT. REQUIRED TO CONCEAL URINAL CARRIER.
- SEE PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR (N) PLUMBING, MECHANICAL AND ELECTRICAL WORK THIS SPACE.
- PATCH (E) PLASTER THIS LOCATION TO MATCH (E) SURROUNDING CONDITION.
- RE-FINISH THIS SPACE PER ROOM FINISH SCHEDULE AND INTERIOR ELEVATIONS.
- (N) DOOR AND DOOR FRAME. SEE THE DOOR SCHEDULE.
- (N) ACCESSIBLE TOILET STALL. INSTALL (N) GRAB BARS AS SHOWN.
- INSTALL ALL (N) TOILET PARTITIONS THIS SPACE.
- INSTALL (N) WOOD STUD PARTITION THIS LOCATION. SEE DETAIL 14/A-6.
- INSTALL (N) TOILET ACCESSORIES AS SHOWN ON THE INTERIOR ELEVATIONS.
- (N) TOILET ROOM ACCESSIBILITY SIGN - TYPE 4, SEE SPECIFICATIONS AND DETAIL 26/A-6.
- (N) TOILET ROOM BRAILLE SIGN, TYPE 6, SEE SPECIFICATIONS AND DETAIL 26/A-6.

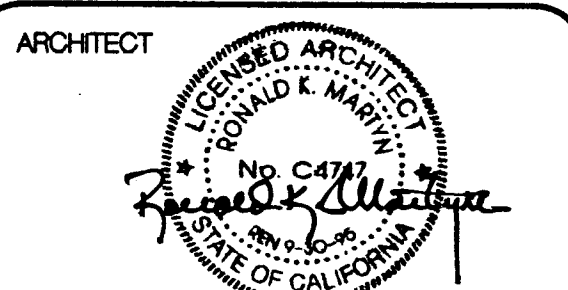
APPROVALS



CONSULTANT

MODERNIZATION AT HIGHLAND ELEMENTARY SCHOOL FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

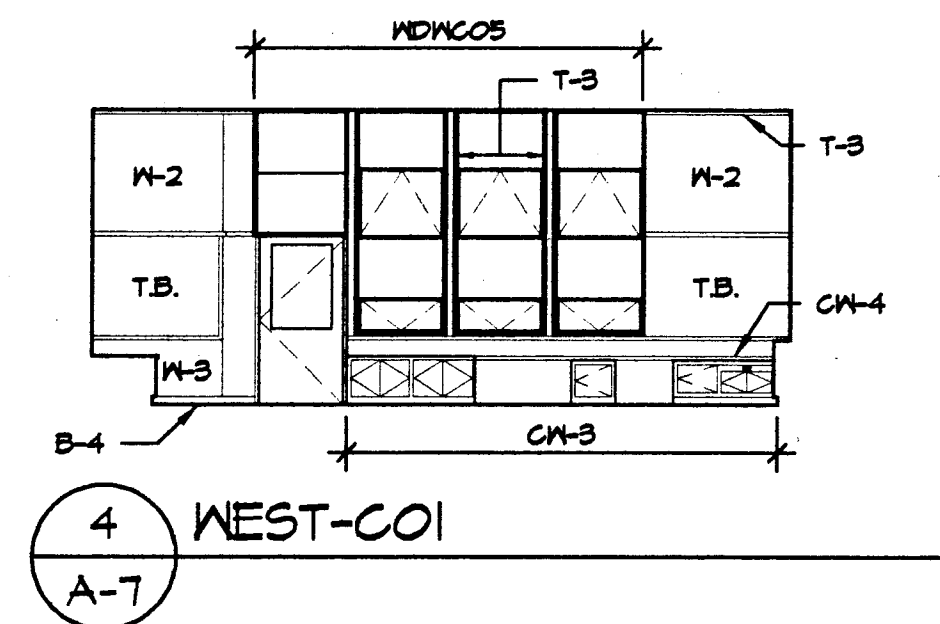
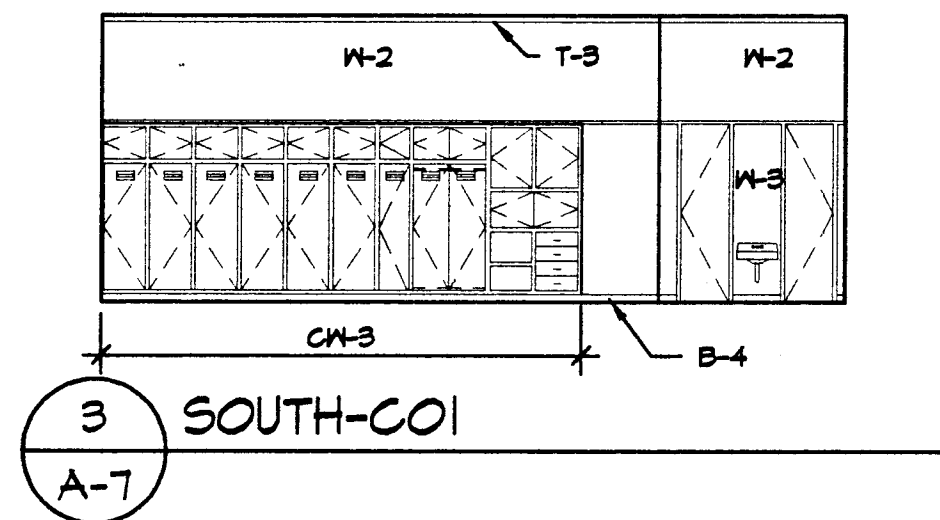
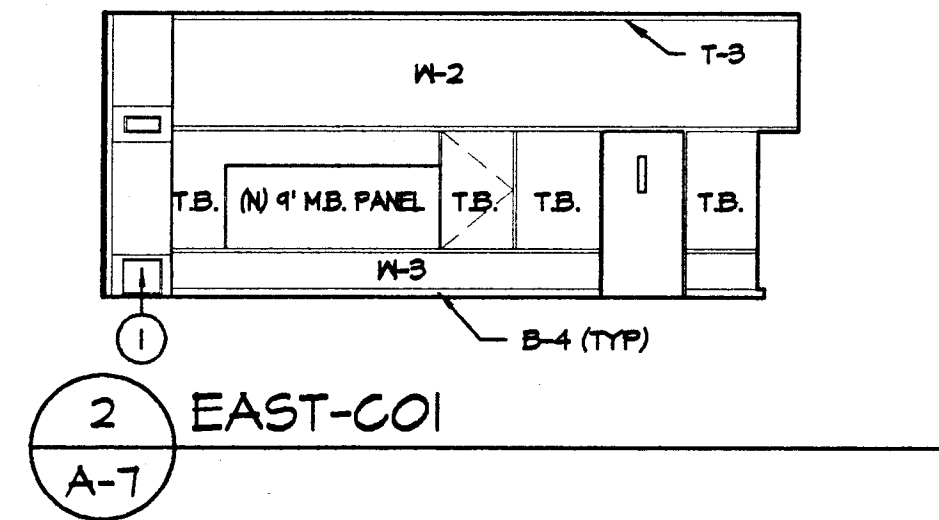
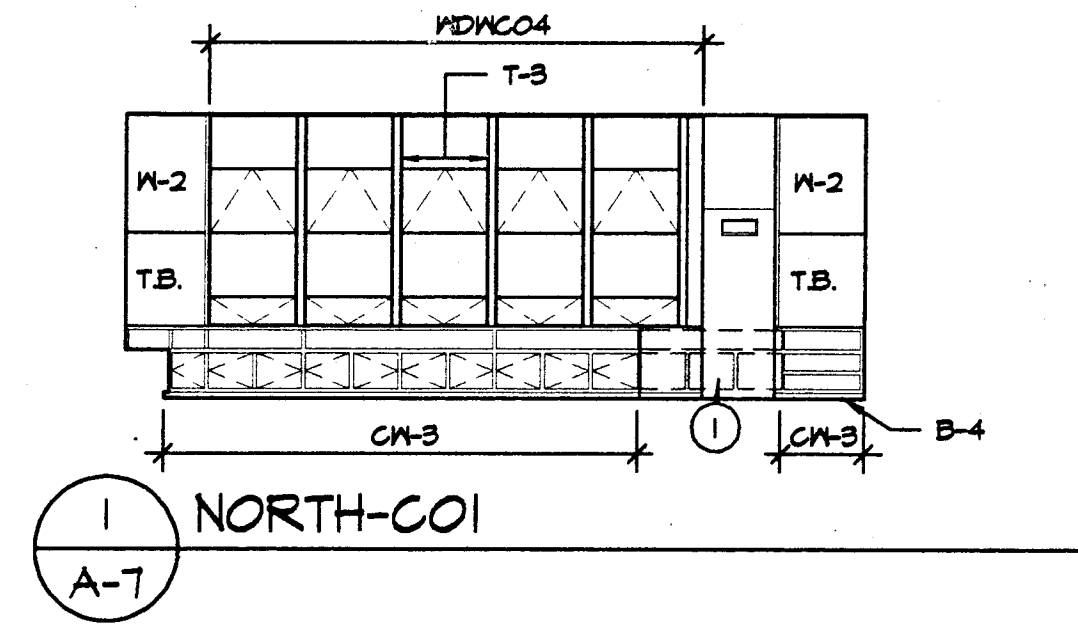
USE OF ASSOCIATED ARCHITECTS' DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY ASSOCIATED ARCHITECTS FOR THIS PROJECT ARE INSTRUMENTS OF ASSOCIATED ARCHITECTS' SERVICES FOR USE SOLELY WITH RESPECT TO THIS PROJECT AND UNLESS OTHERWISE PROVIDED, ASSOCIATED ARCHITECTS SHALL BE DEEMED THE AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT. THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF THE PROJECT, ASSOCIATED ARCHITECTS' DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS FOR INFORMATION AND REFERENCE IN CONNECTION WITH THE OWNERS USE AND OCCUPANCY OF THE PROJECT. ASSOCIATED ARCHITECTS SHALL NOT BE USED BY THE OWNER OR OTHERS ON OTHER PROJECTS FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, UNLESS ASSOCIATED ARCHITECTS IS ADJOINED TO BE IN DEFAULT UNDER THIS AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO ASSOCIATED ARCHITECTS.



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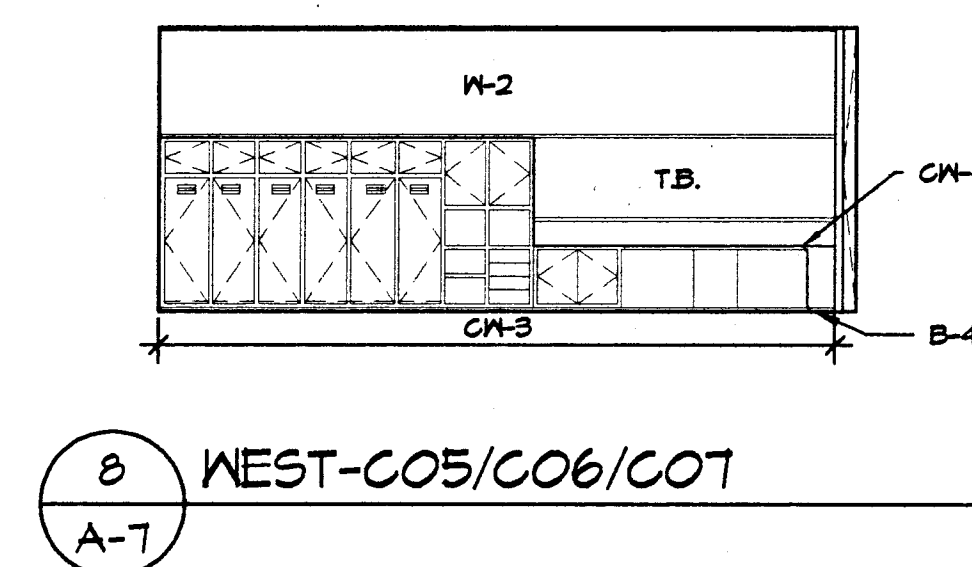
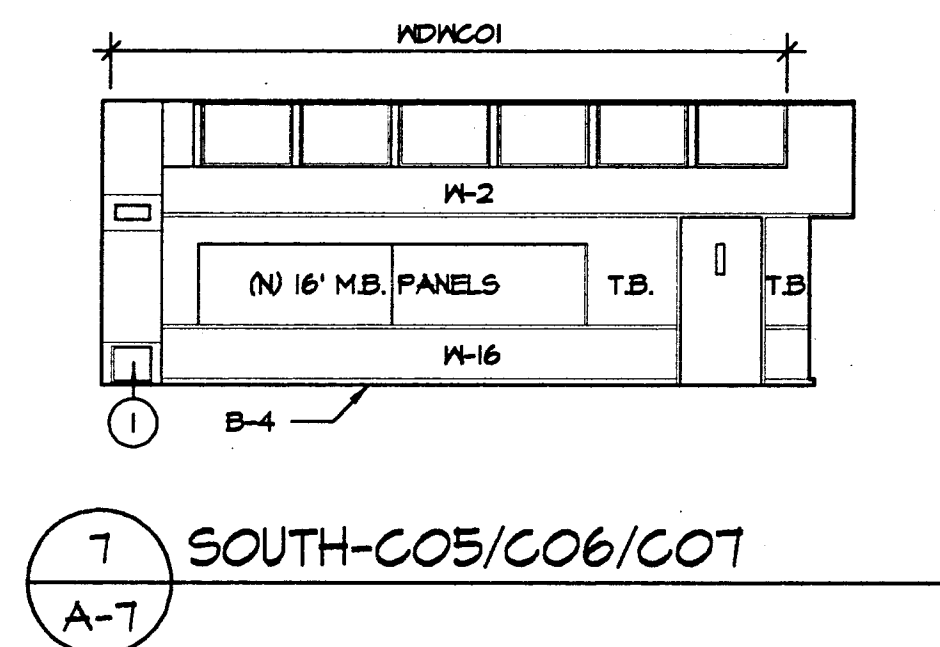
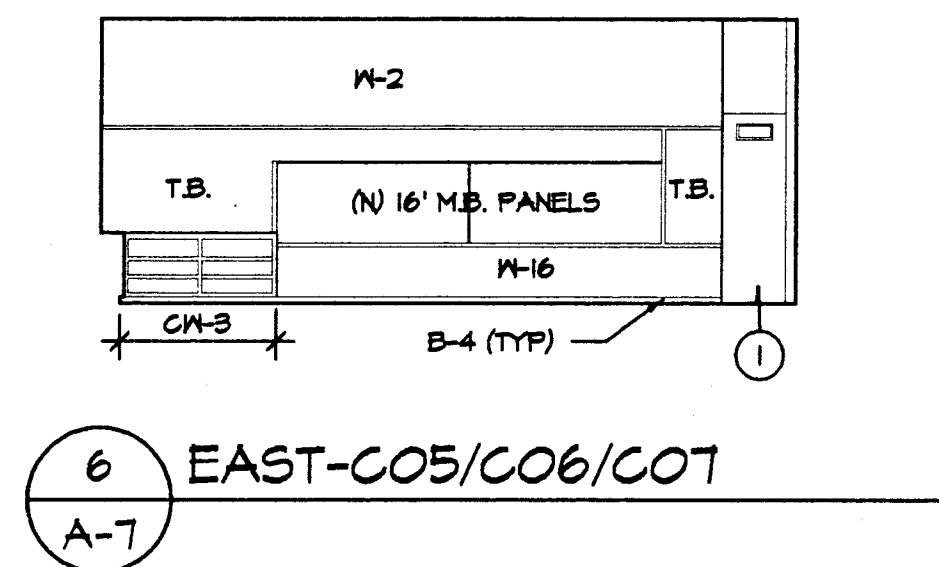
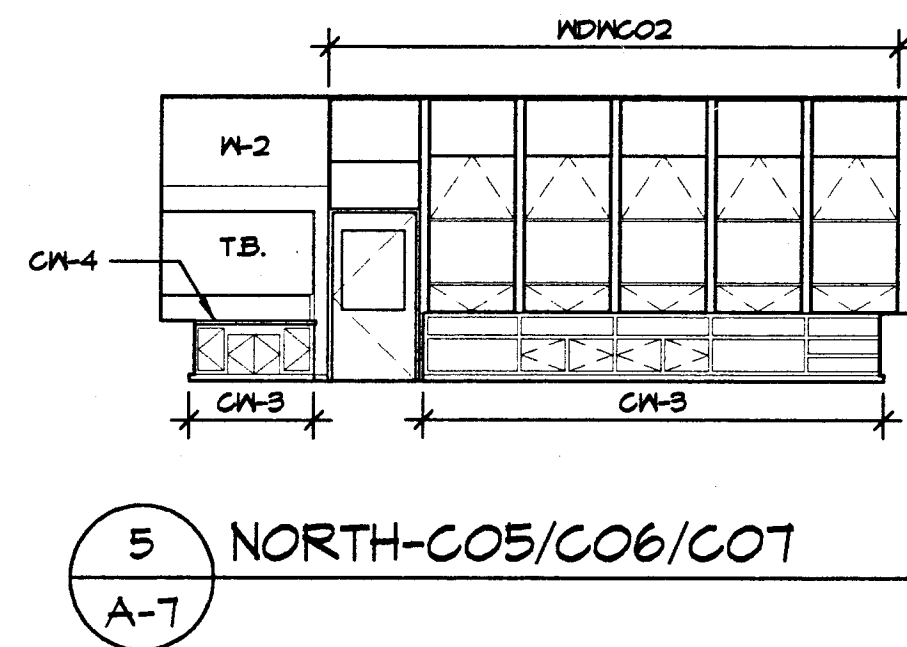
SHEET TITLE
TOILET ROOMS-
PLANS, ELEVATIONS,
DETAILS

DATE
6/16/95
DRAWING NUMBER
15
A-6
FILE NO.
77-15-3
SHEET 10 OF 30

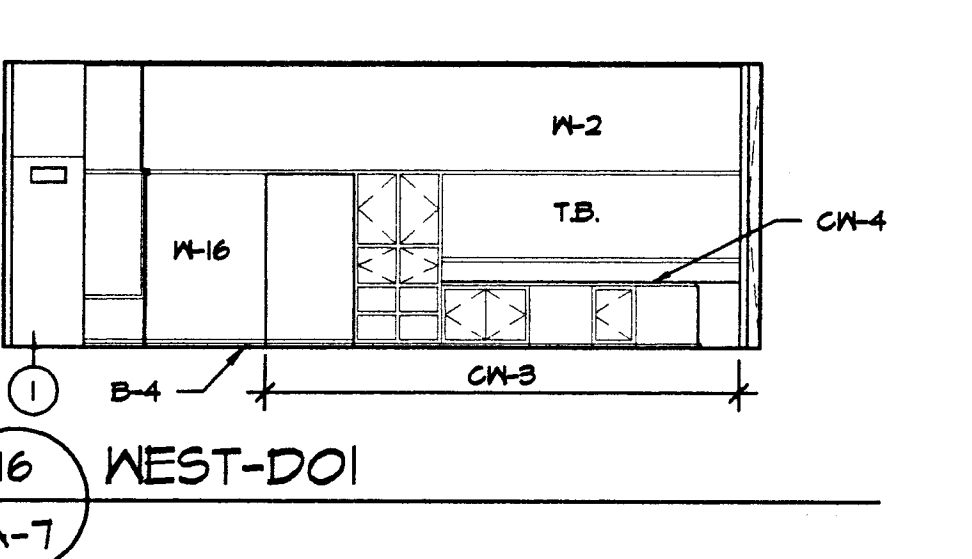
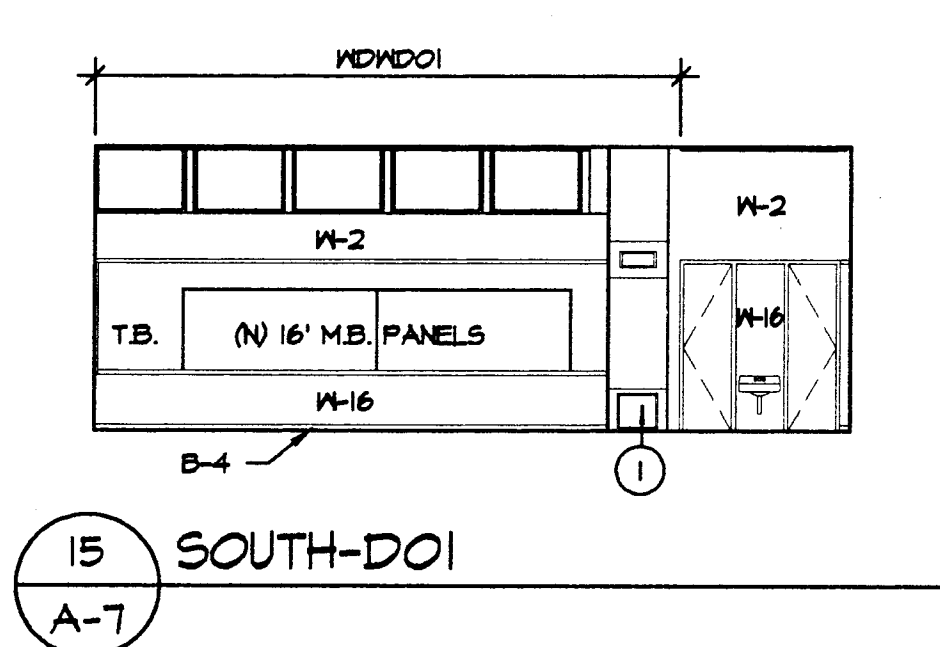
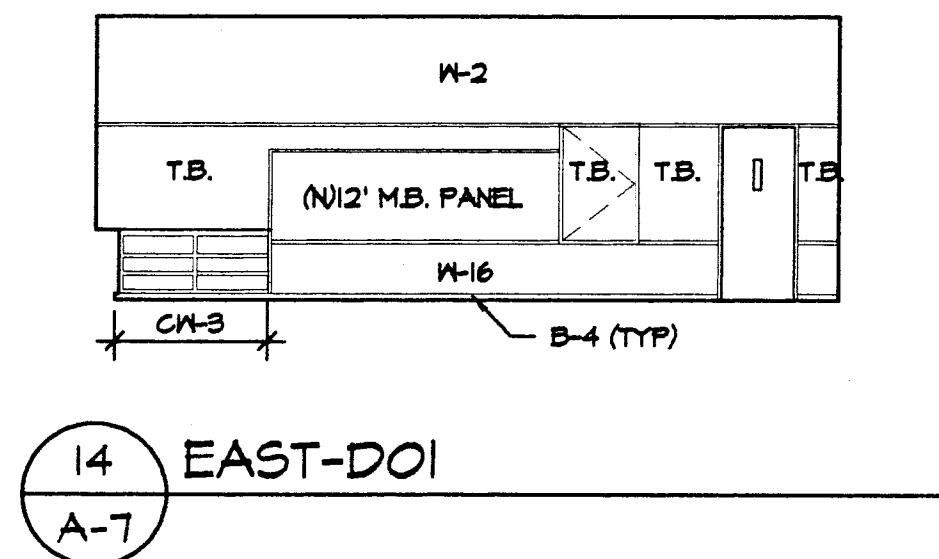
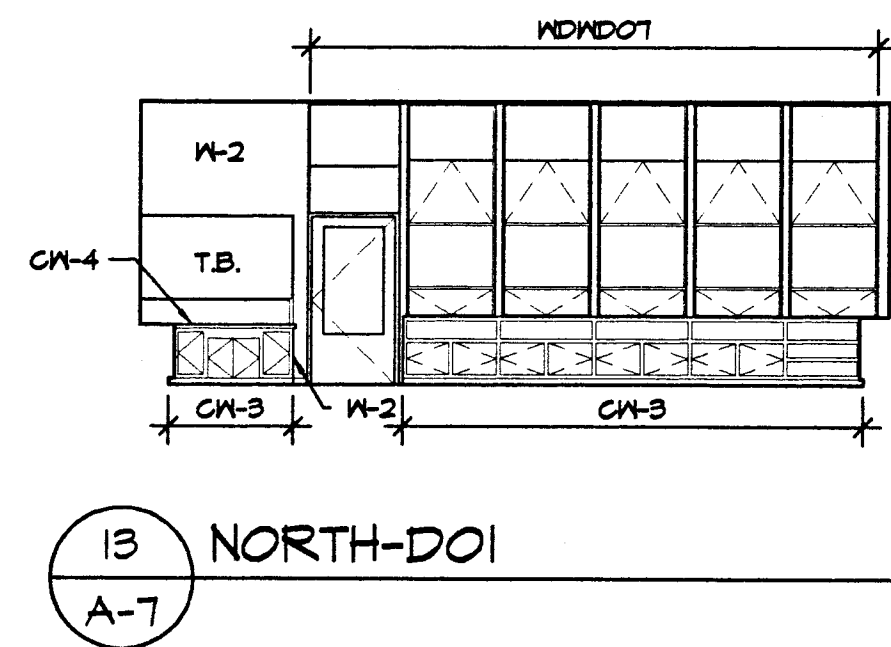
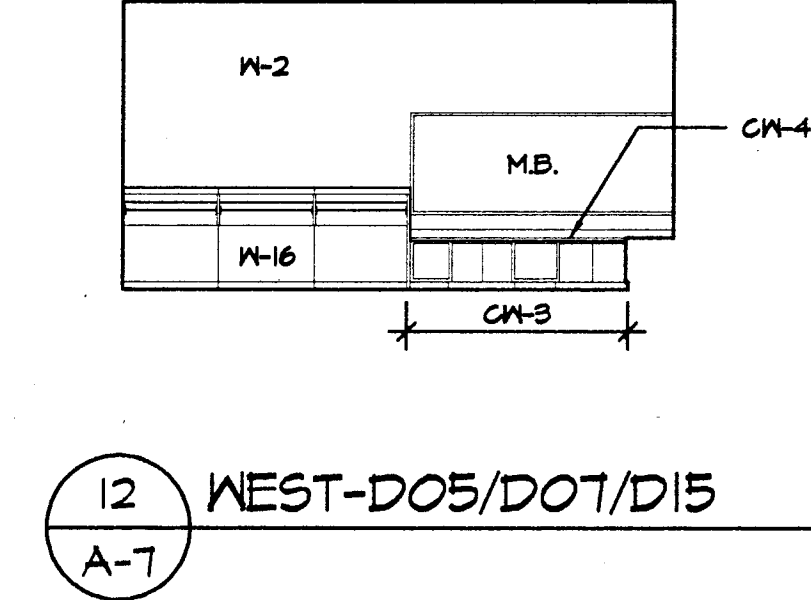
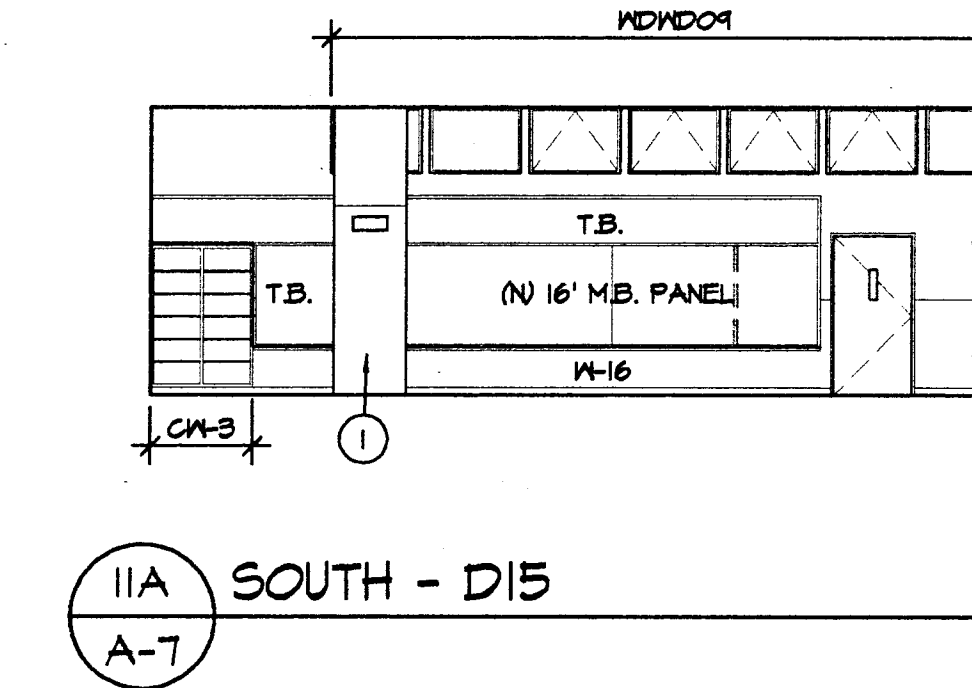
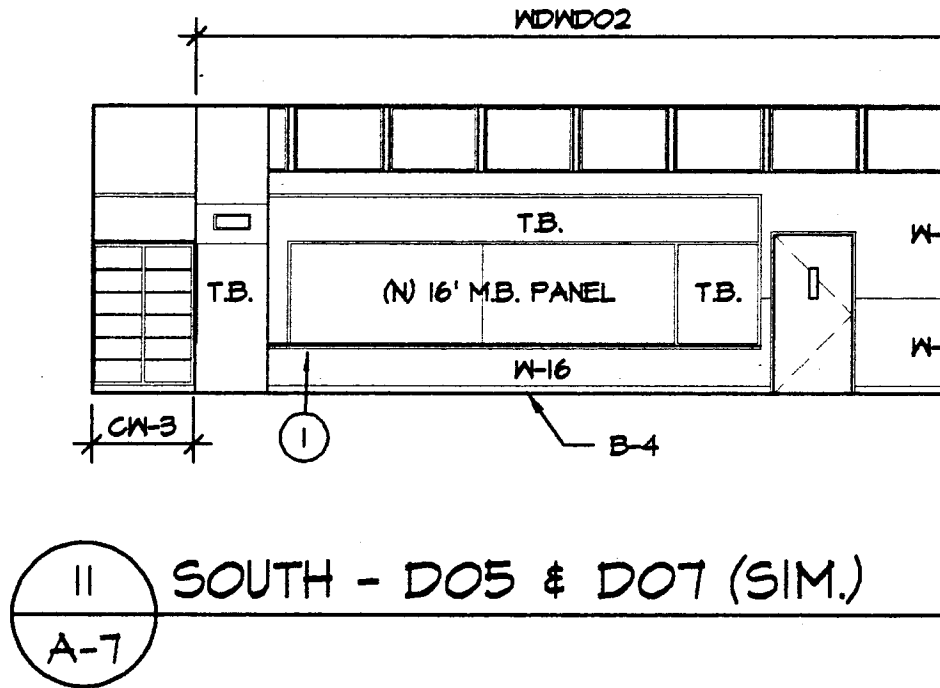
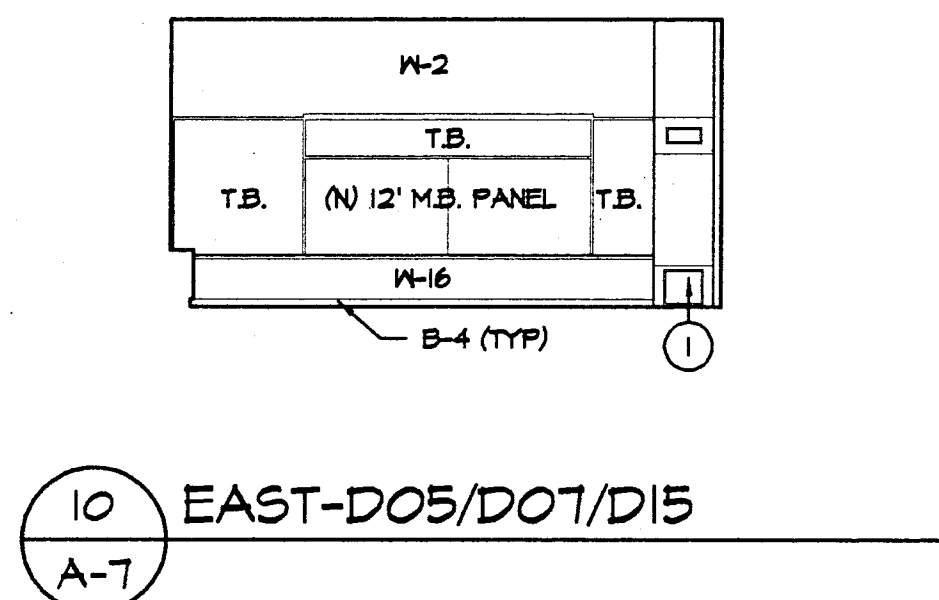
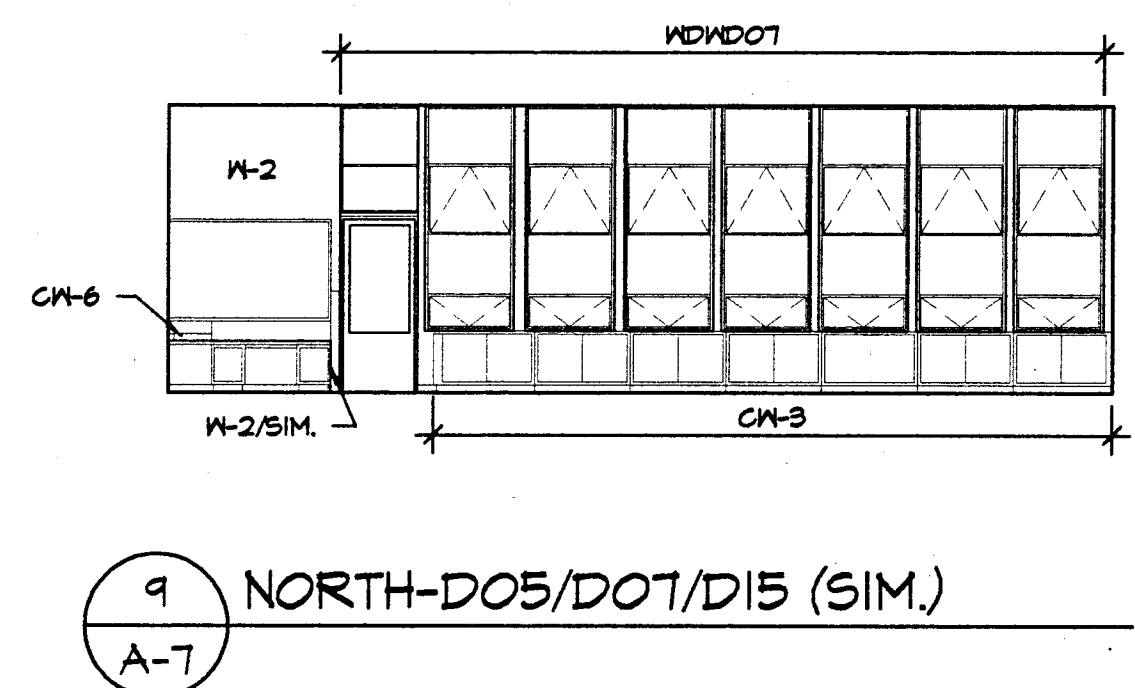


KINDERGARTEN ELEVATIONS

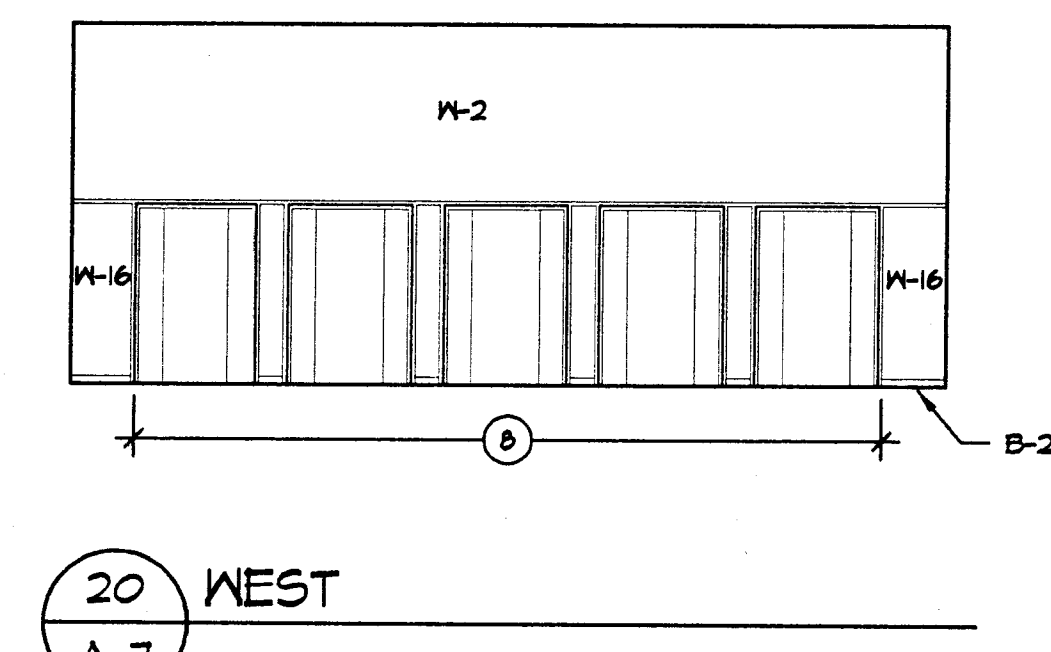
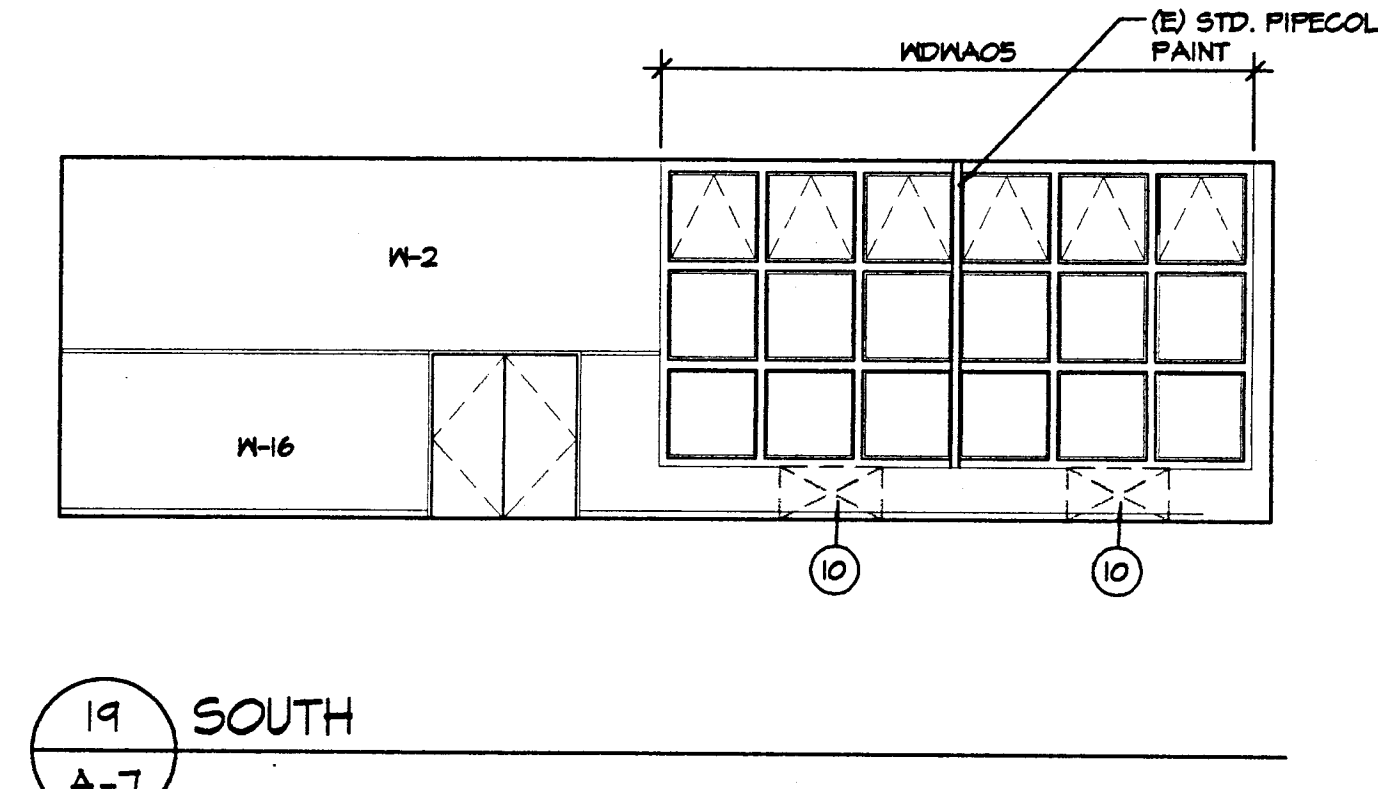
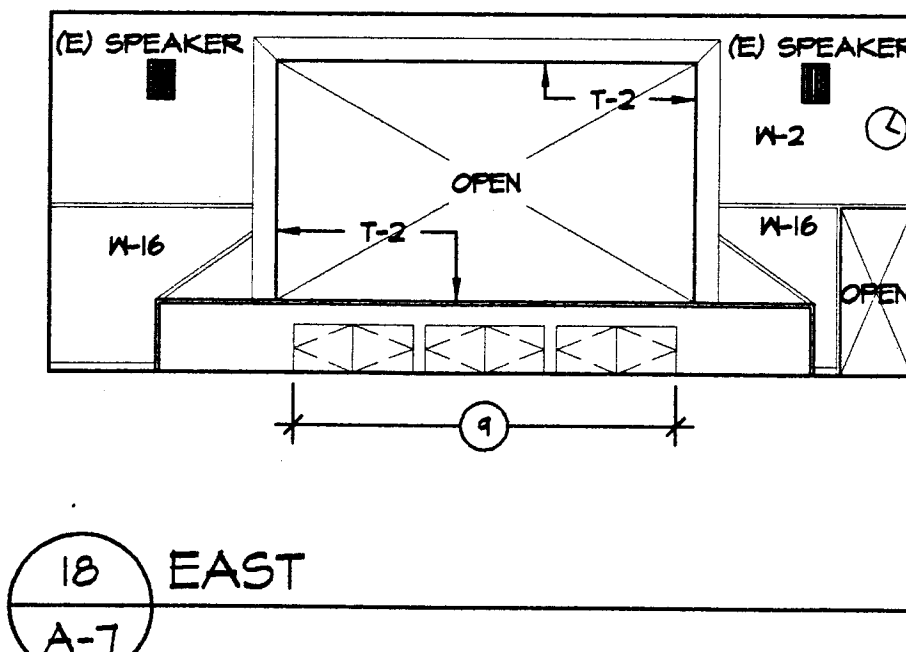
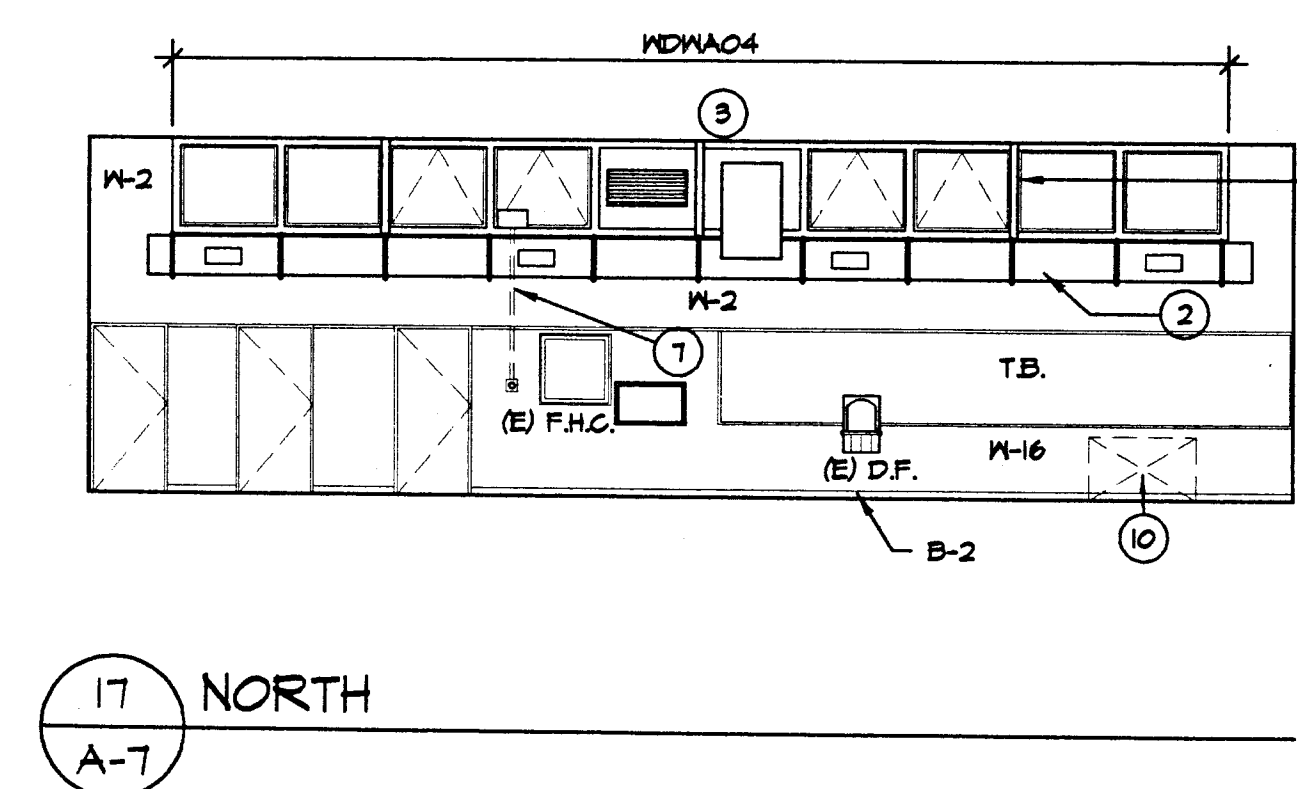
SCALE: 1/4" = 1'-0" TYPICAL ALL INTERIOR ELEVATIONS ④⑥



TYPICAL CLASSROOM ELEVATIONS - BUILDING C ⑤⑥



TYPICAL CLASSROOM ELEVATIONS - BUILDING D ⑤⑥



MULTI-PURPOSE ELEVATIONS ⑤⑥

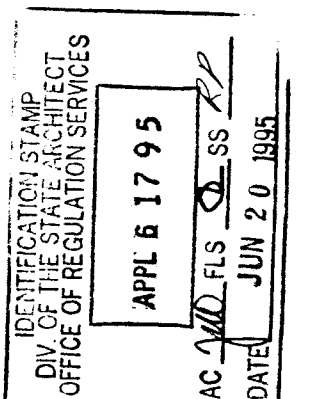
CONSTRUCTION NOTES

(FOR DRAWING 15/A-7 ONLY)

- (N) H 4 V UNIT, S.M.D.
- (N) SHEET METAL SUPPLY AND RETURN DUCTWORK, WALL MOUNTED, S.M.D. PAINT.
- (N) SHEET METAL DUCT THRU (E) WINDOW SASH. SEE DETAILS 3/A-4 AND 4/A-9.
- ALL (E) WOOD TRIM THIS SPACE - T-3, U.O.N. LOCATED AT THE CEILING LINE, WINDOW PERIMETERS, DOOR OPENINGS, ROOM CORNERS, WAINSCOT PERIMETERS, CASEWORK, MARKERBOARD AND TACKBOARD PERIMETERS, TYPICAL.
- ALL (E) WOOD TRIM THIS SPACE - T-3, U.O.N. LOCATED AS IN NOTE #4 ABOVE.
- TB - (E) TACKBOARD TO REMAIN. PROTECT FROM DAMAGE.
- DISENGAGE (E) WINDOW CRANK ASSEMBLY AND LOCK REMAINDER OF OPERABLE SASH SHUT.
- (N) FOLDING TABLE AND BENCH SETS, INCLUDING (N) METAL POCKET ASSEMBLIES. SEE DETAIL 25/A-8.
- PREP AND PAINT (E) UNDER PLATFORM DOORS.
- REMOVE (E) UNIT HEATERS, S.M.D. PATCH WALL AND FLOOR TO MATCH (E) SURROUNDING CONDITION AND FINISH. SEE DETAIL 14/A-8.

NOTE:
SEE DRAWING A-4 FOR FINISH MATERIAL LEGEND
AND CABINET SCHEDULE

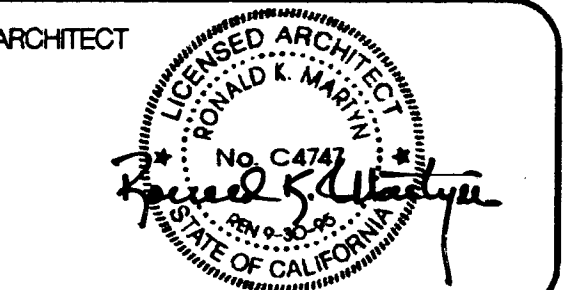
APPROVALS



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SHEET TITLE

TYPICAL INTERIOR
ELEVATIONS

DATE

6/16/95

FILE NO.

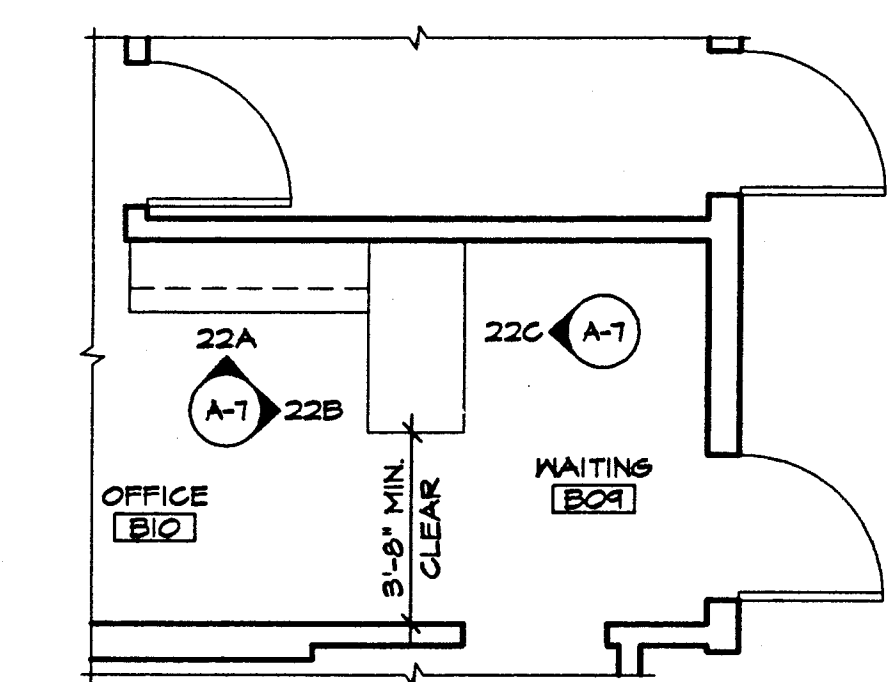
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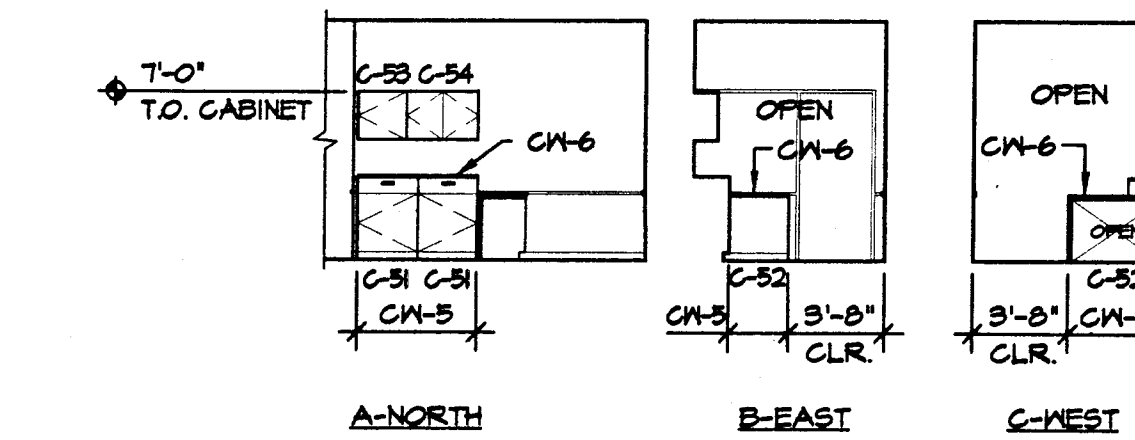
15

A-7

SHEET 11 OF 30

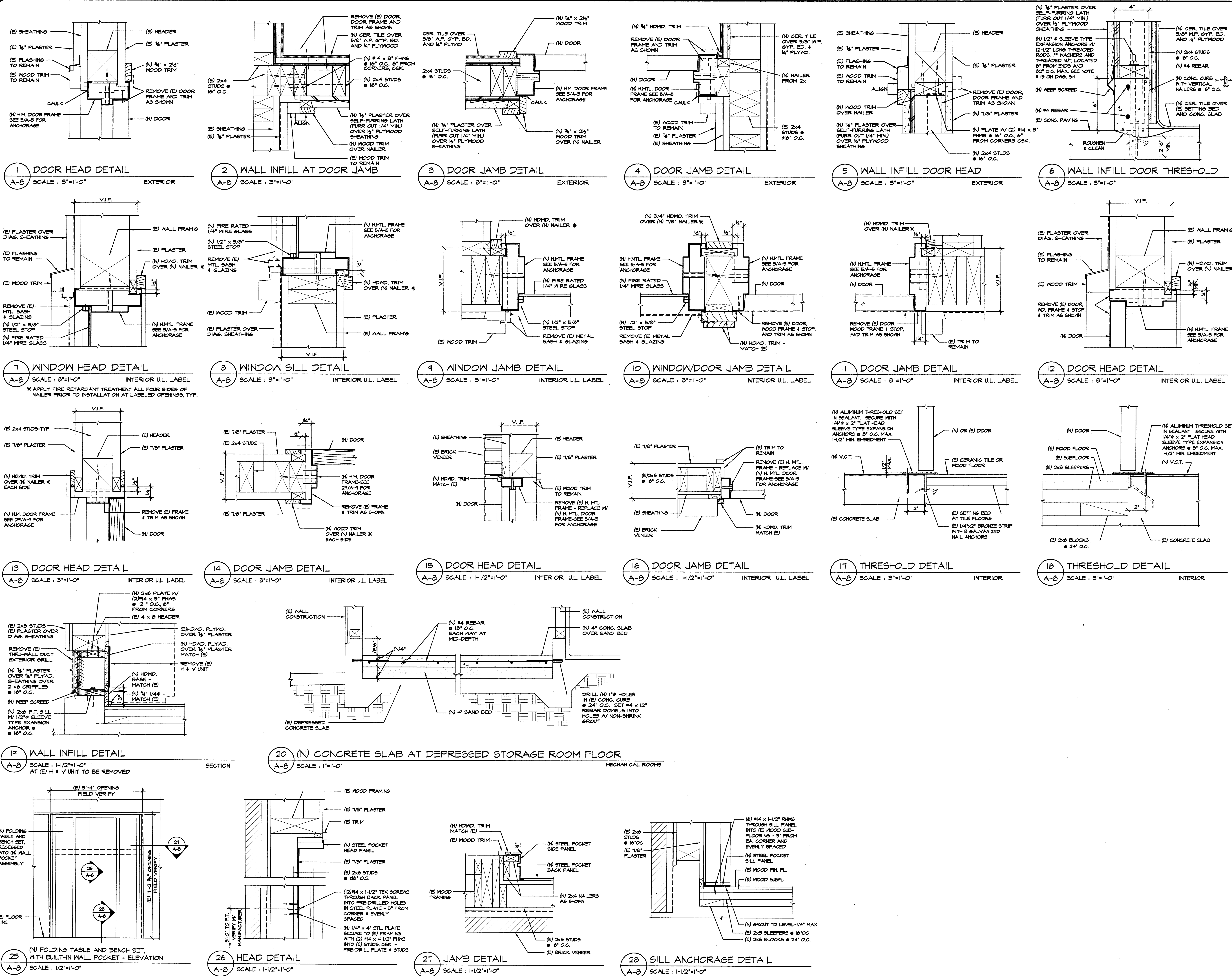


21) DETAIL FLOOR PLAN OFFICE BIO
1/4" = 1'-0"

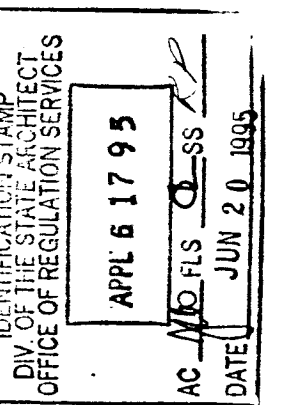


22) CABINET ELEVATIONS

OFFICE BIO



APPROVALS



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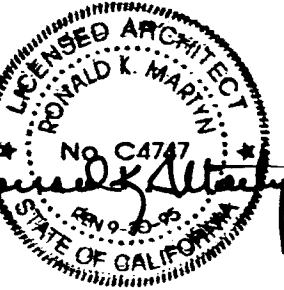
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ARCHITECT



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SHEET TITLE

DETAILS

DATE

6/16/95

FILE NO.

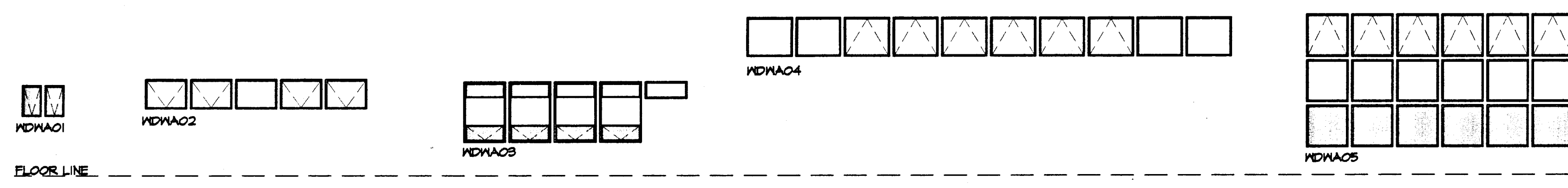
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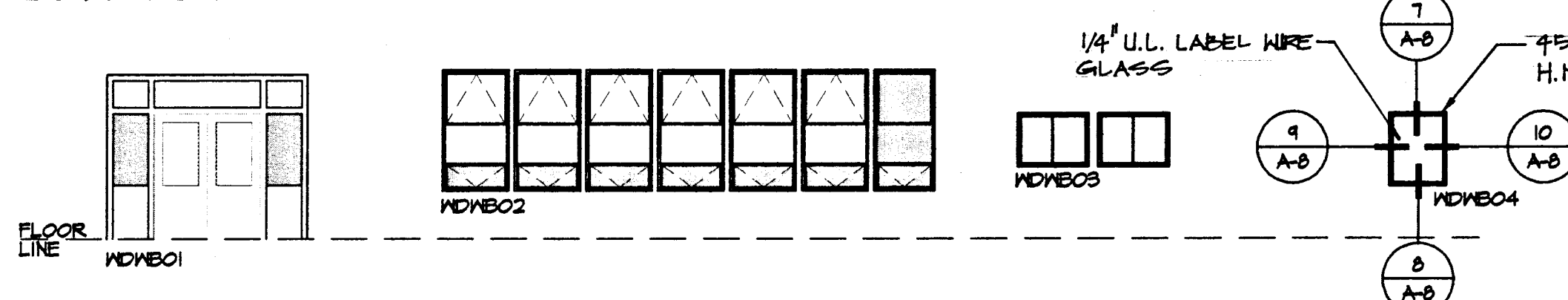
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A-8

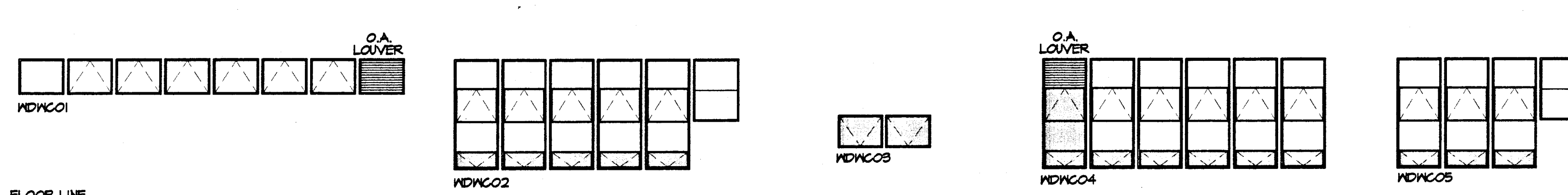
SHEET 12 OF 30



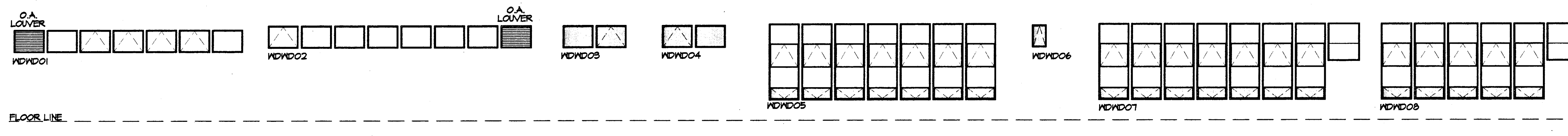
BUILDING A



BUILDING B



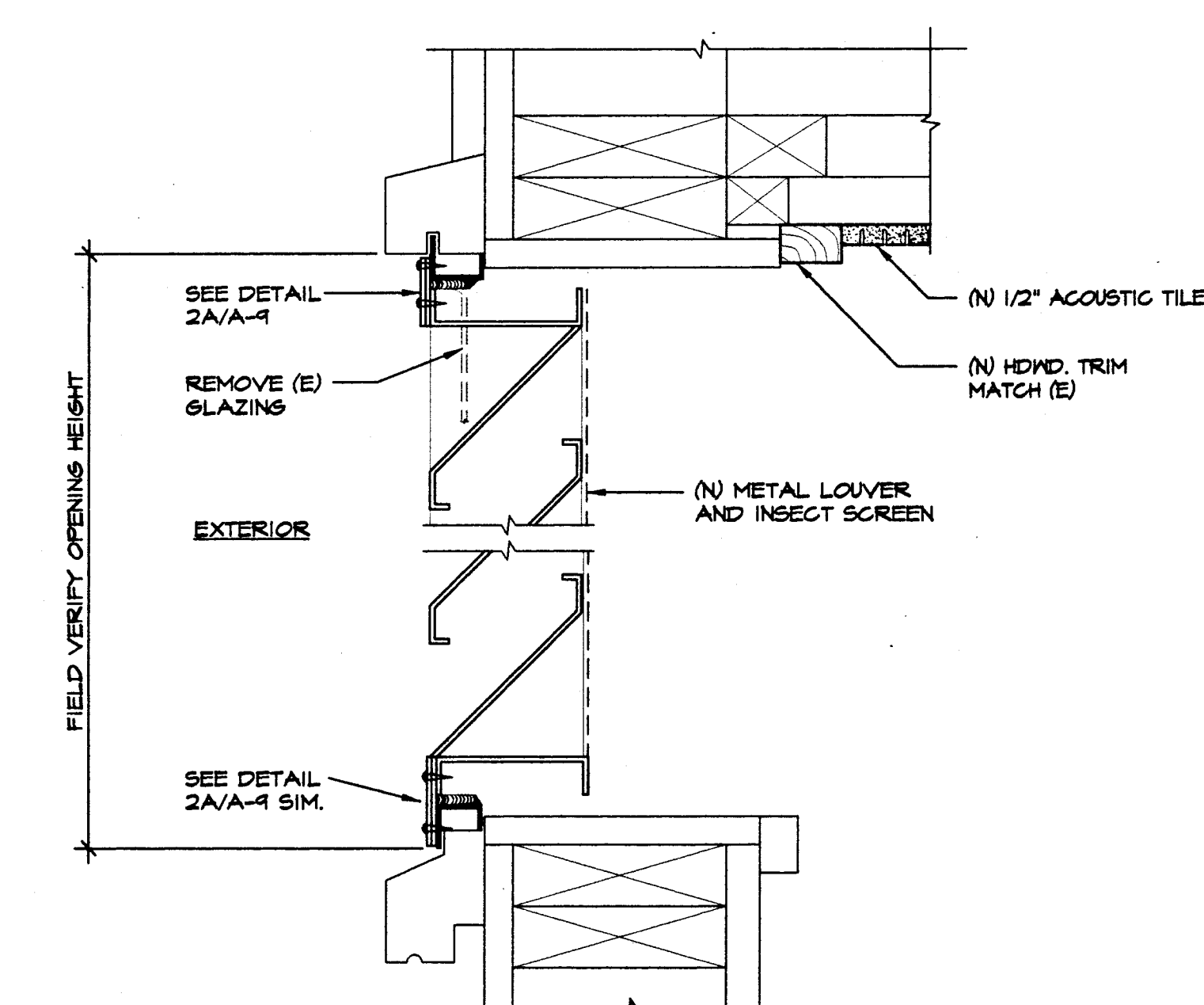
BUILDING C



BUILDING D

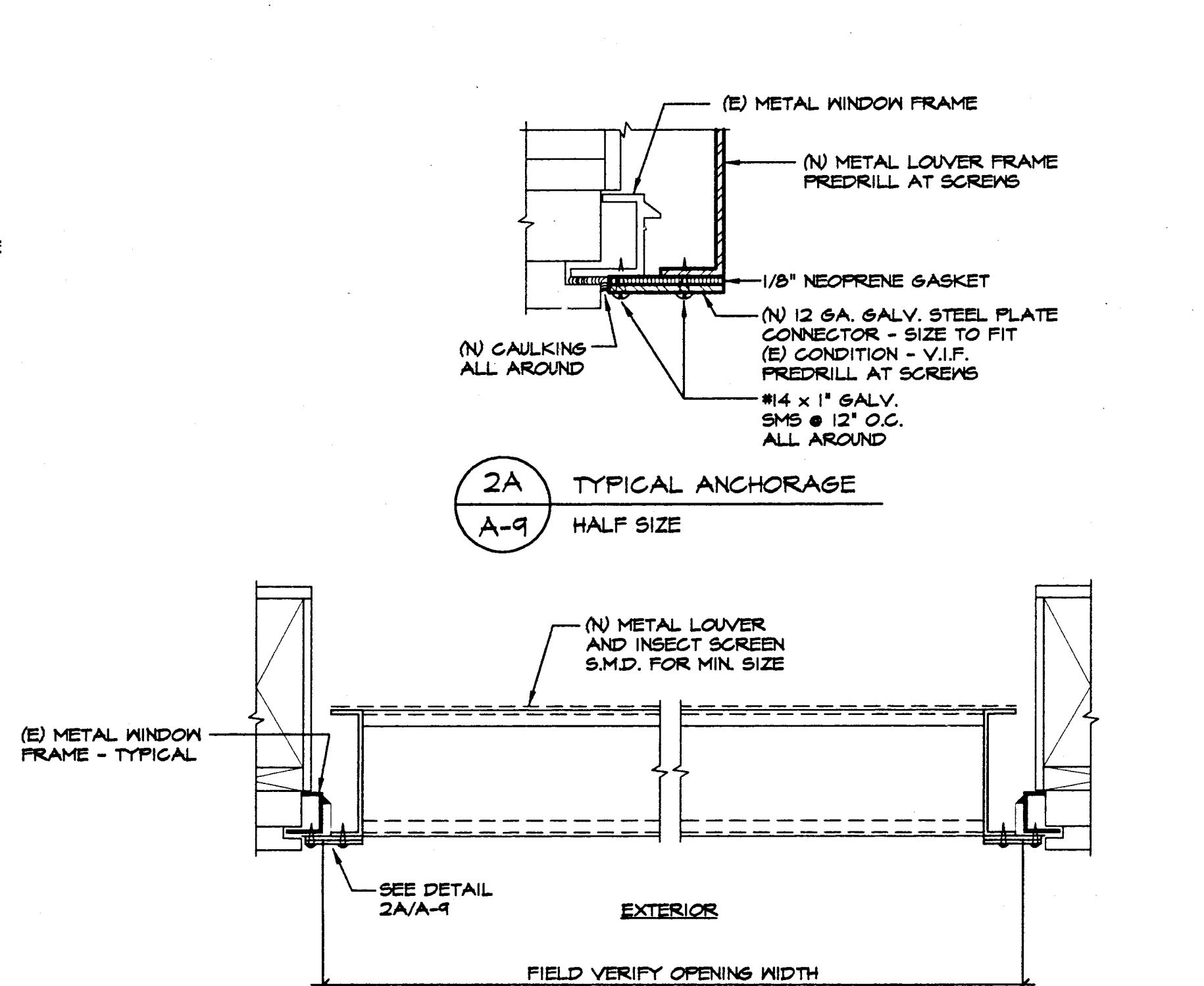
WINDOW REGLAZING SCHEDULE

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



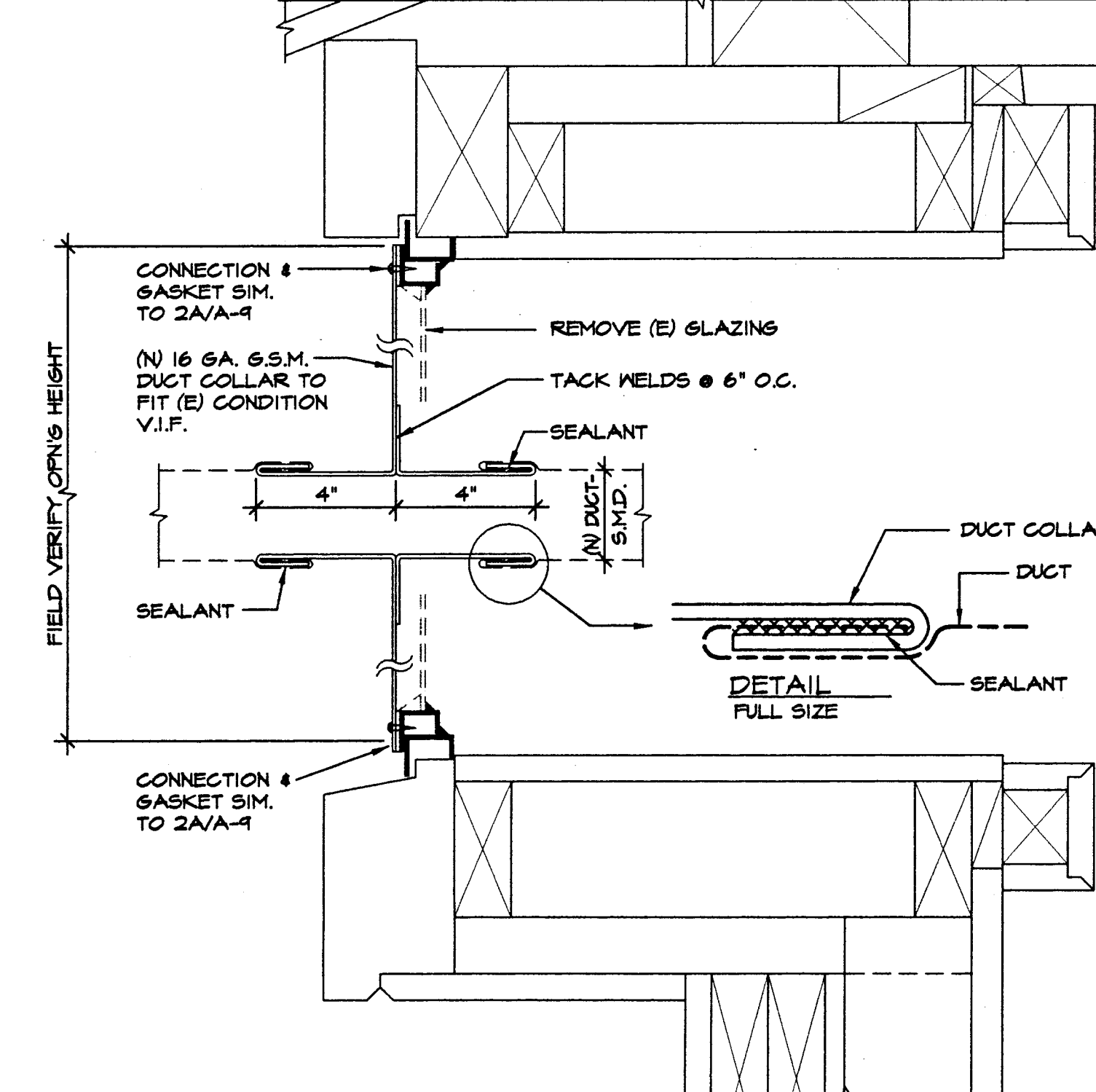
1 VERTICAL SECTION @ (N) METAL LOUVER

A-9 SCALE: 3/4"=1'-0"



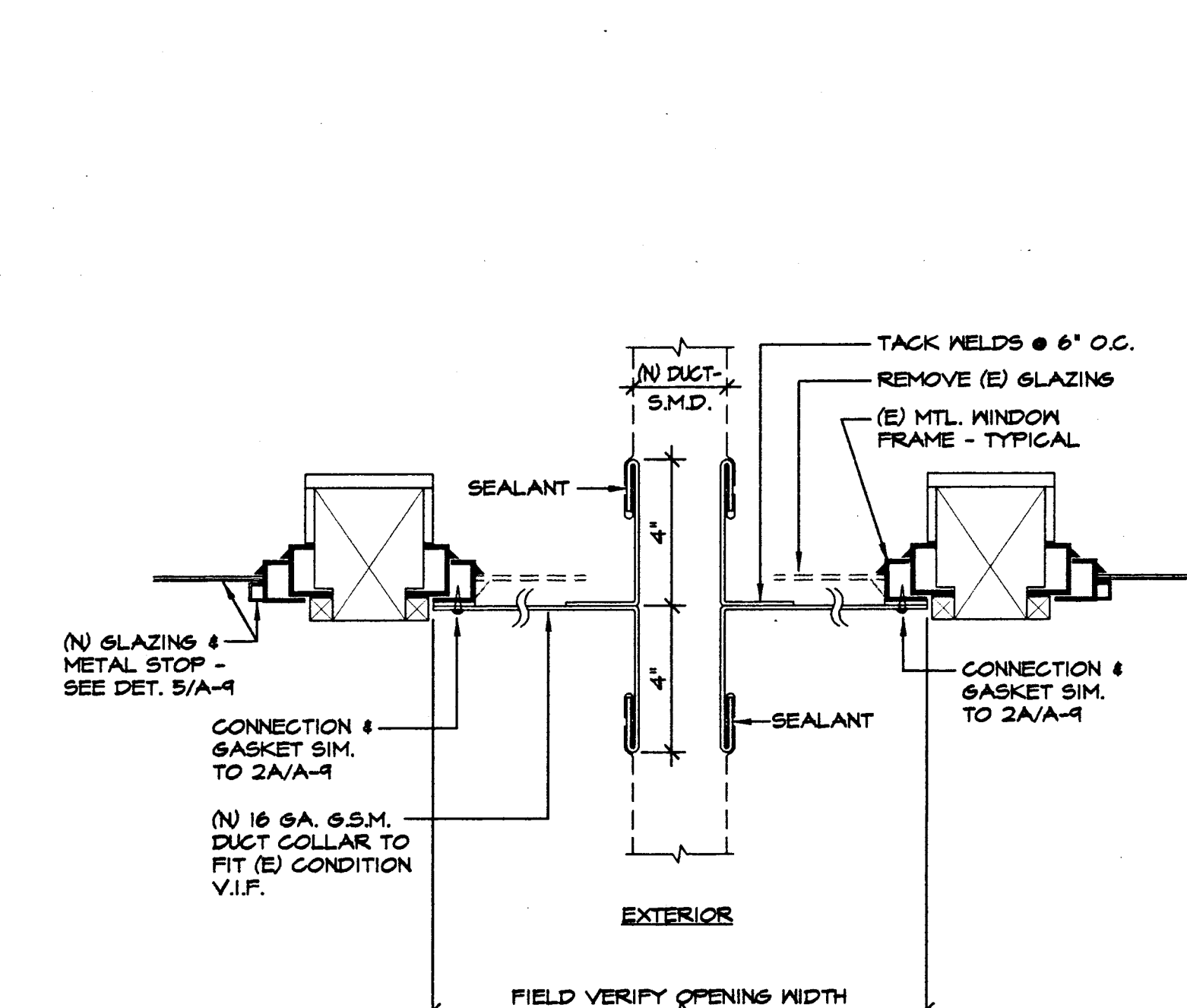
2 PLAN SECTION @ (N) METAL LOUVER

A-9 SCALE: 3/4"=1'-0"



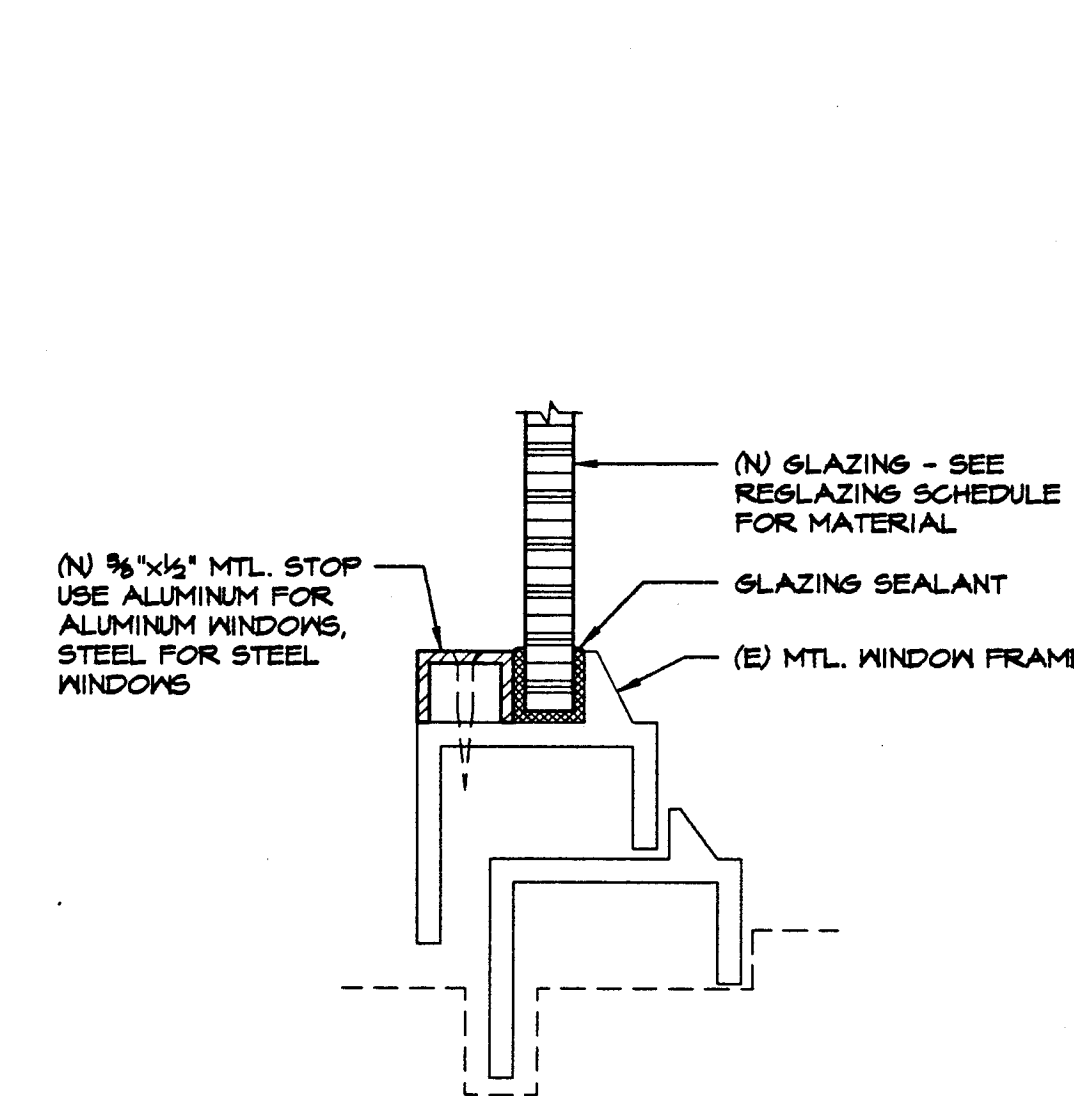
3 VERTICAL SECTION @ DUCT THRU WINDOW

A-9 SCALE: 3/4"=1'-0"



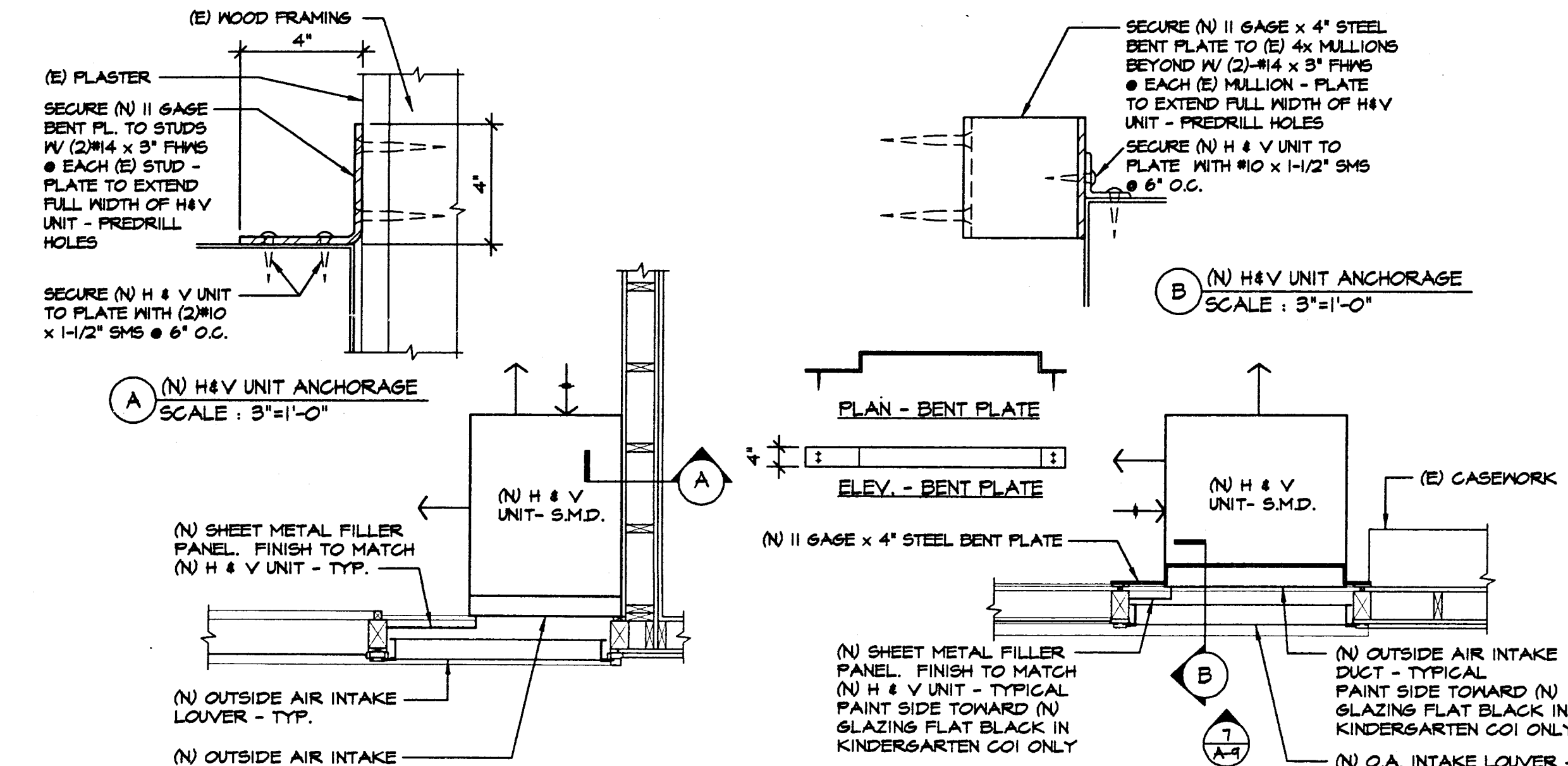
4 PLAN SECTION @ DUCT THRU WINDOW

A-9 SCALE: 3/4"=1'-0"



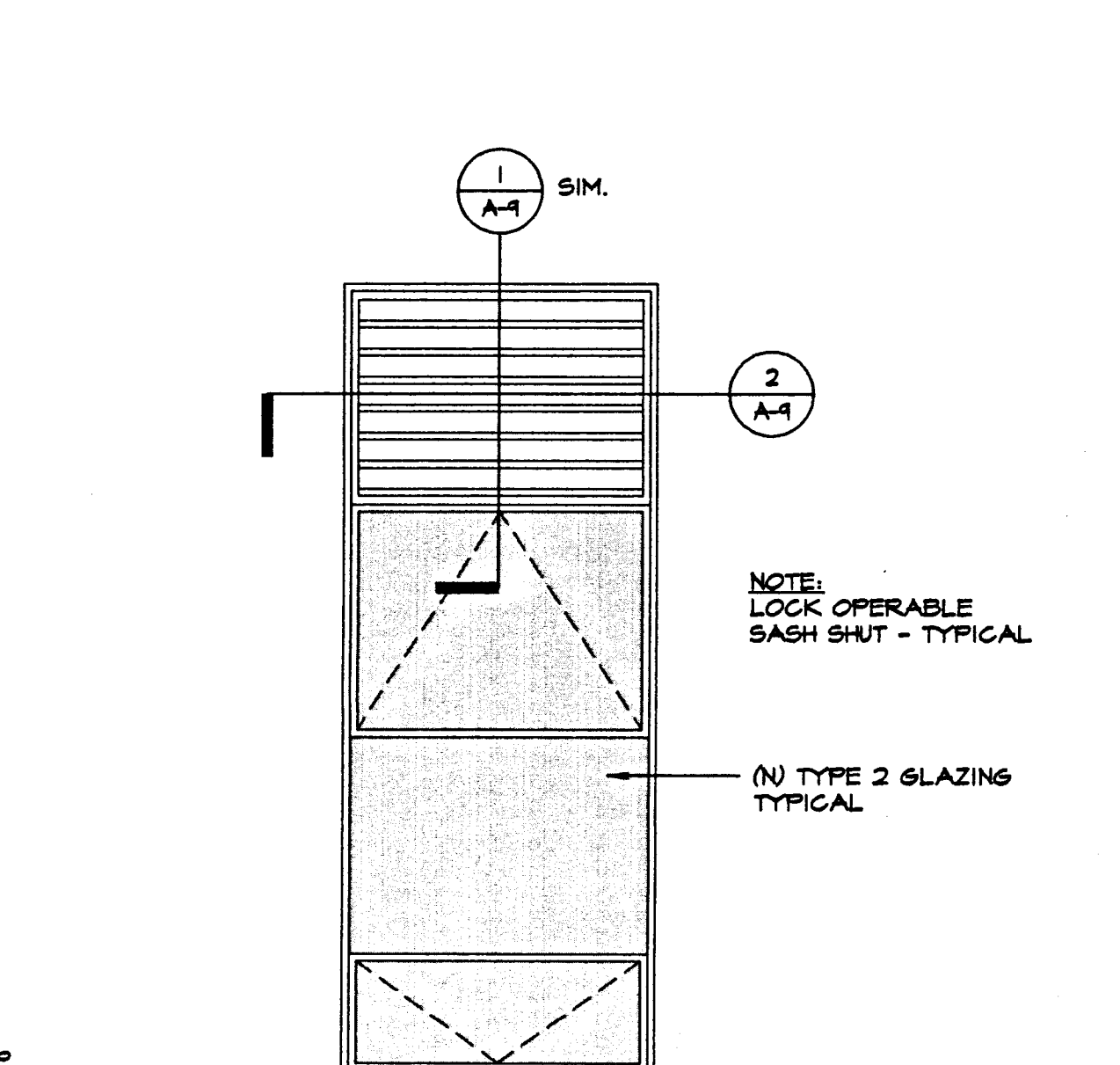
5 TYPICAL GLAZING STOP

A-9 FULL SIZE ALL (N) REGLAZING



6 TYPICAL (N) CLASSROOM H & V UNIT

A-9 SCALE: 1/2"=1'-0"



7 (E) WINDOW SASH AT (N) O.A. LOUVER

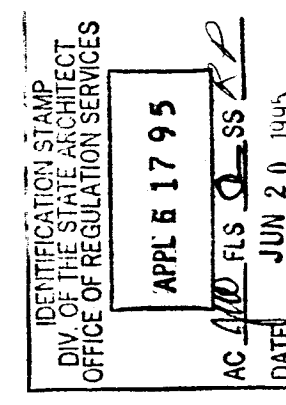
A-9 SCALE: 1/2"=1'-0"

REGLAZING NOTES:

- SEE THE FLOOR PLANS FOR LOCATIONS AND QUANTITY OF EACH WINDOW GROUP.
- REMOVE ALL (E) GLASS OR (E) POLYCARBONATE SHEET FROM THE (E) METAL OR WOOD SASH IN EACH WINDOW GROUP SHOWN. U.O.N.
- REGLAZE ALL METAL OR WOOD SASH IN EACH WINDOW GROUP WITH (N) POLYCARBONATE SHEET, ACCORDING TO THE TYPES CODED BELOW FOR DESCRIPTION OF (N) GLAZING TYPES. U.O.N.
- VERIFY LOCATION AND SIZE OF ALL (N) LOUVERS AND DUCTWORK FIXED INTO (E) WINDOW SASH. SEE MECHANICAL DRAWINGS.
- WHERE (N) HEATING UNIT OCCURS AT A TALL WINDOW, PROVIDE PEBBLE FINISH POLYCARBONATE SHEET FOR FULL HEIGHT OF WINDOW, EXCEPT AT LOCATION OF (N) LOUVER. COORDINATE WITH MECHANICAL DRAWINGS.
- WHERE (N) HEATING UNIT OCCURS AT CLERESTORY WINDOW, OMIT POLYCARBONATE SHEET IN LIEU OF (N) LOUVER. COORDINATE WITH MECHANICAL DRAWINGS.



APPROVALS



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SHEET TITLE

REGLAZING SCHEDULE,
REGLAZING DETAILS

DATE

6/16/95

DRAWING NUMBER

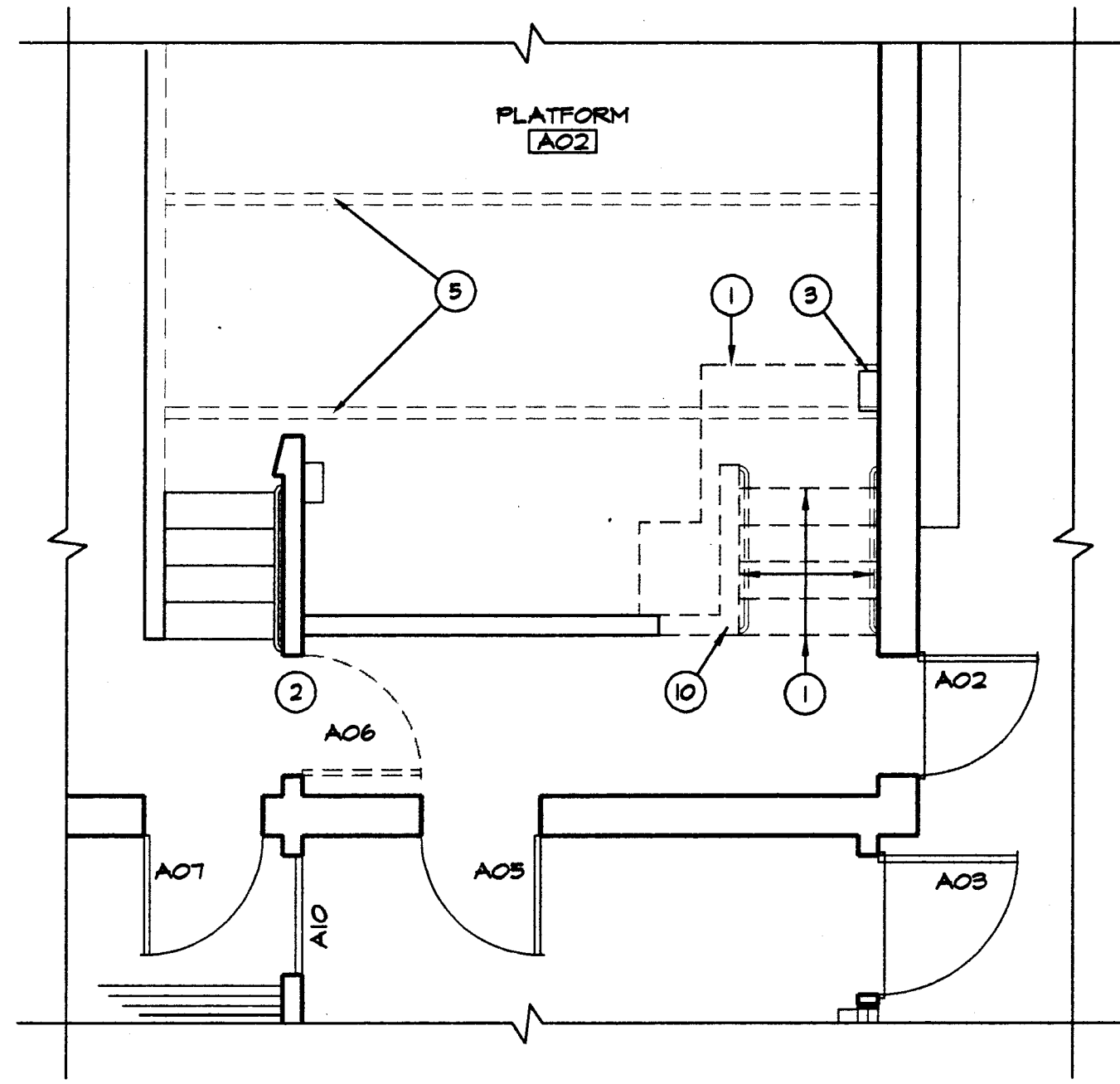
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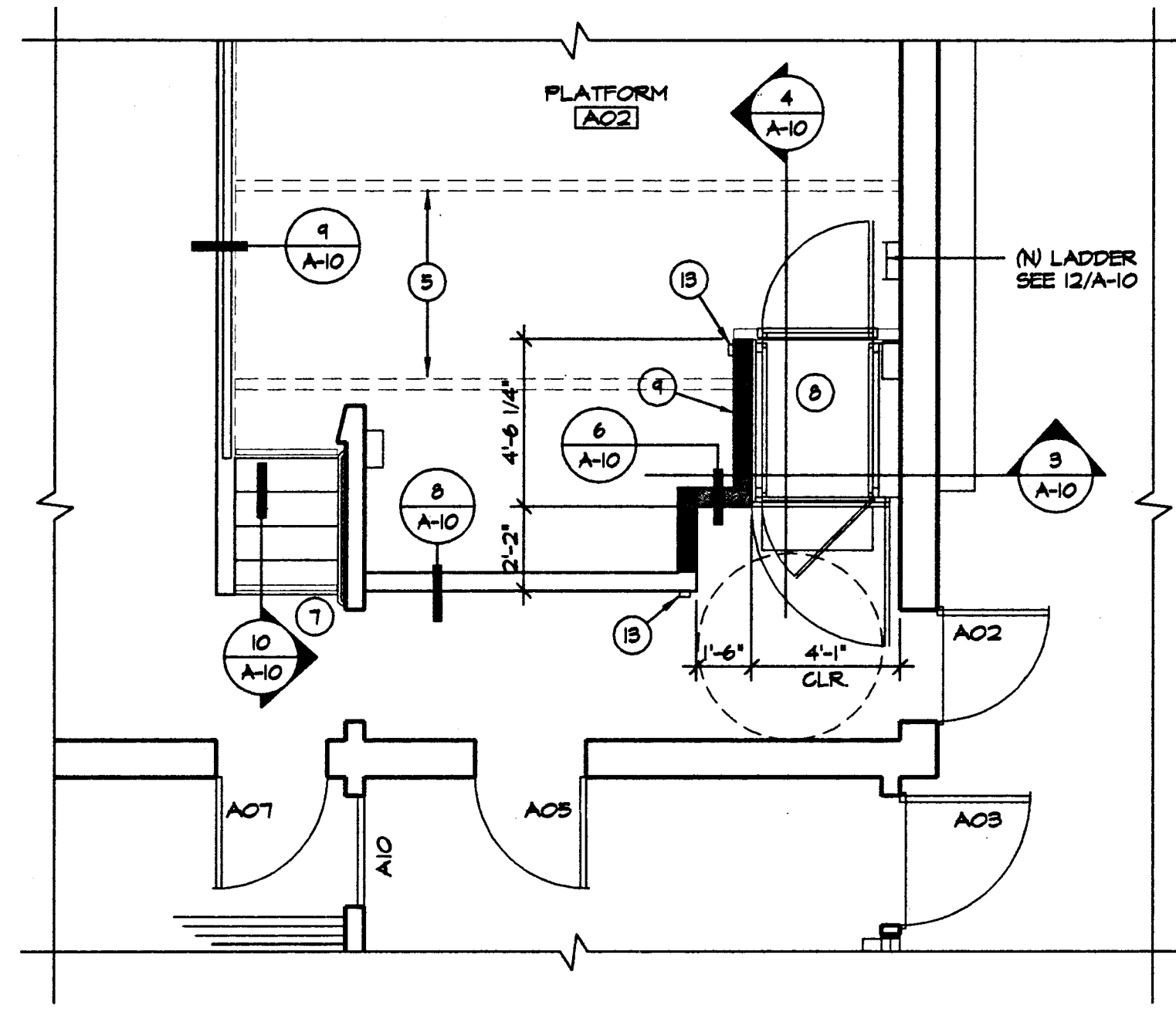
77-15-3

SHEET

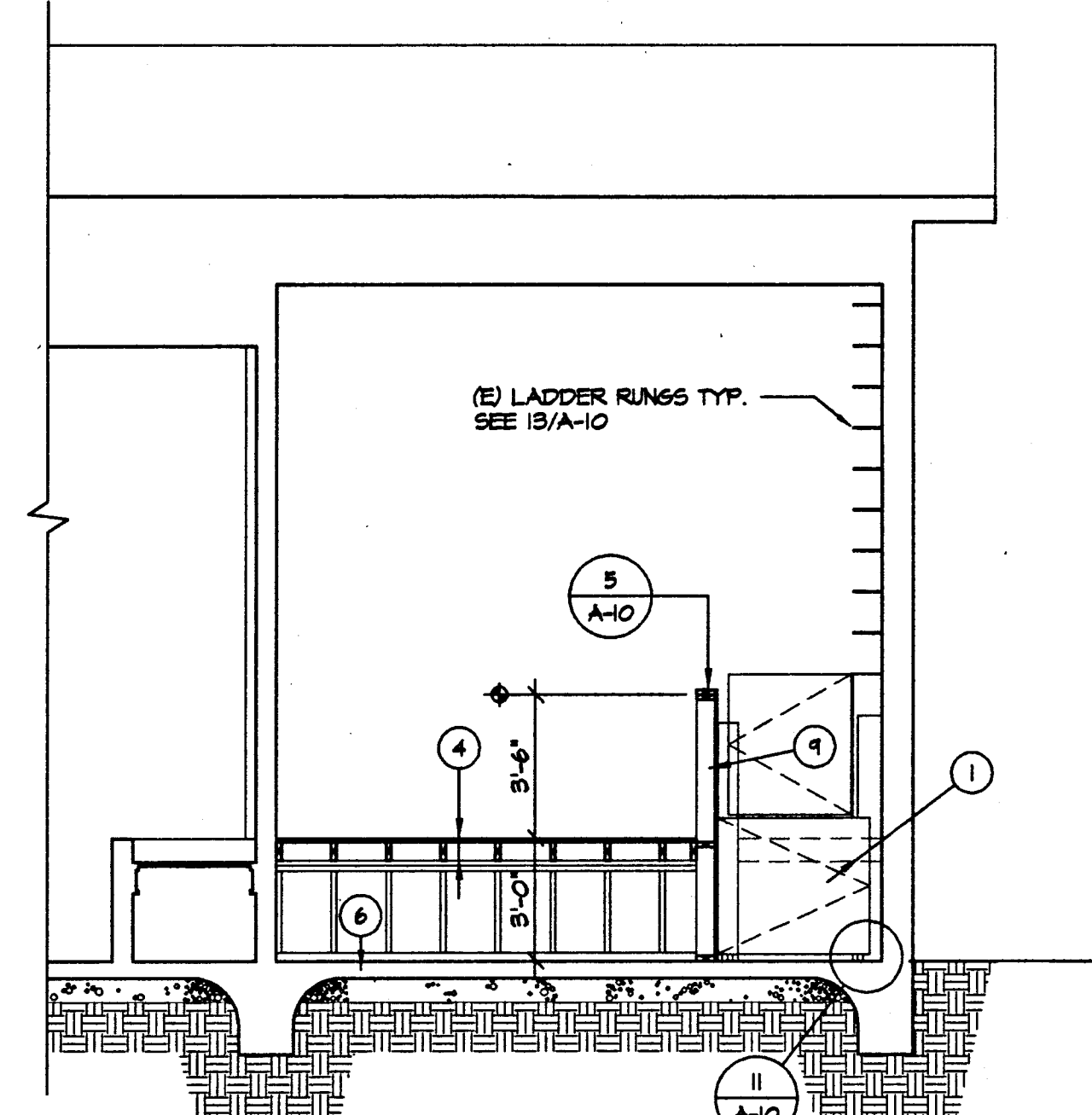
13 OF 30



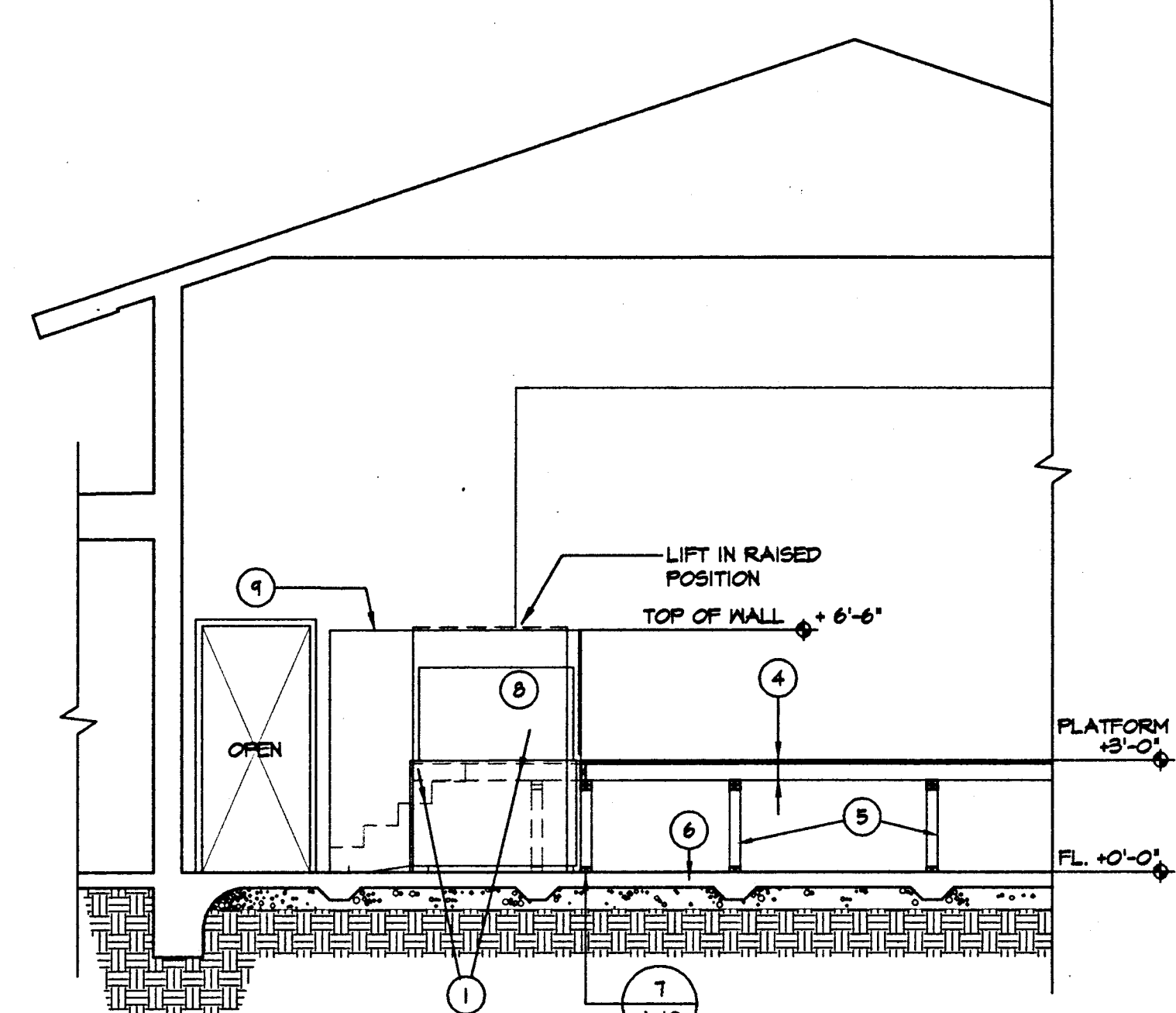
1 DETAIL FLOOR PLAN - REMOVALS
A-10 SCALE: 1/4"=1'-0" AT PLATFORM



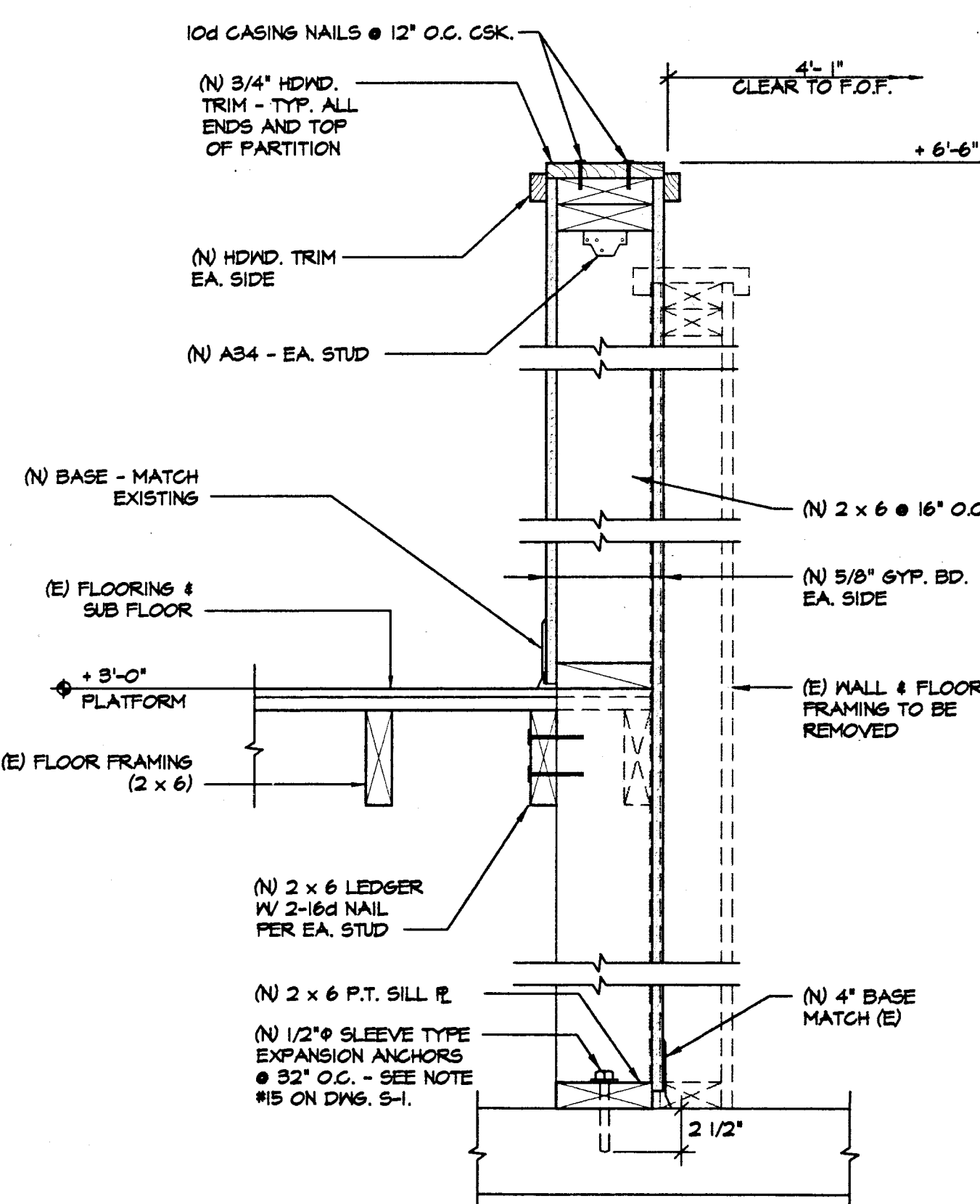
2 DETAIL FL. PLAN AT (N) WHEELCHAIR LIFT
A-10 SCALE: 1/4"=1'-0"



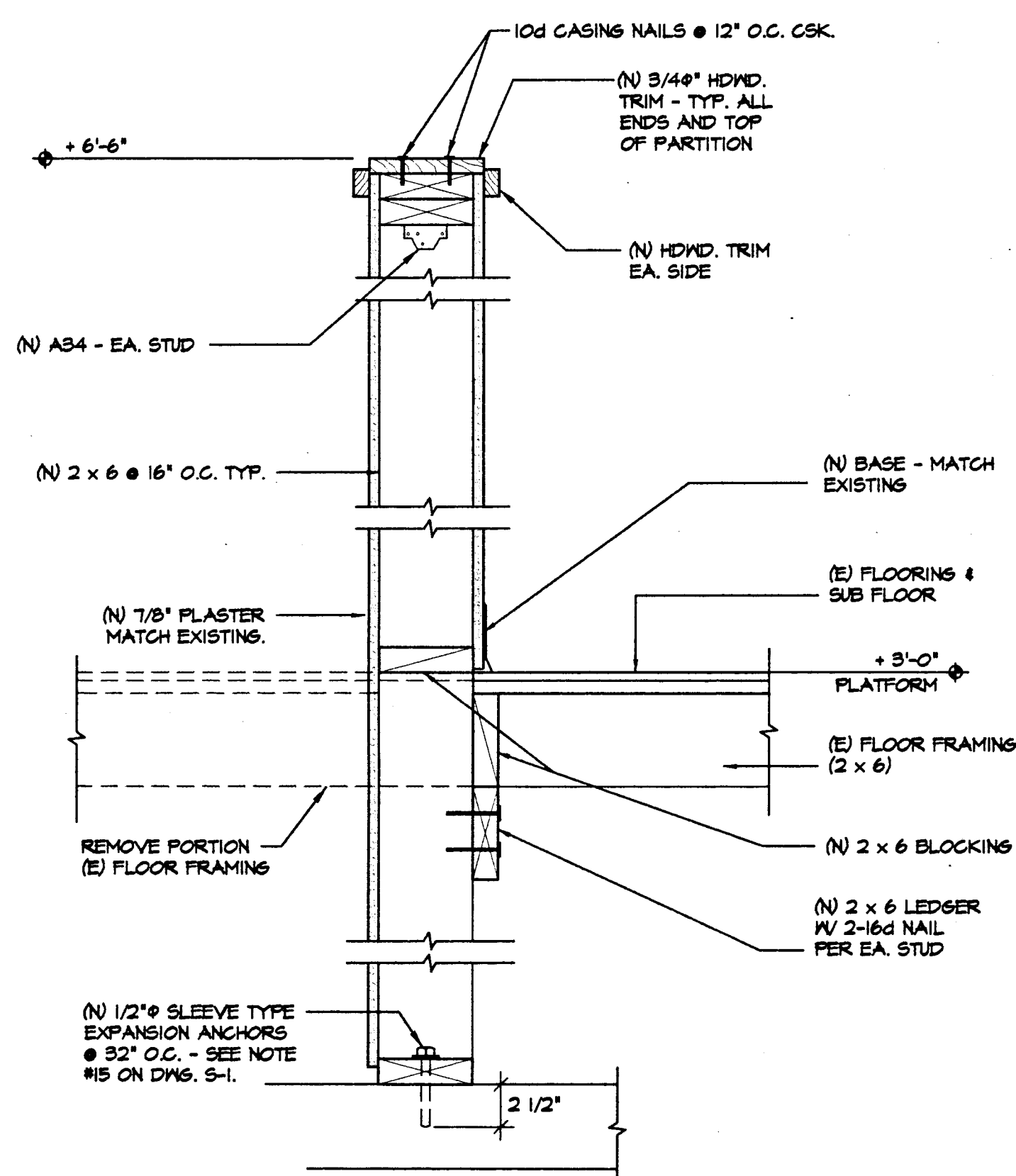
3 SECTION AT NEW WHEELCHAIR LIFT
A-10 SCALE: 1/4"=1'-0"



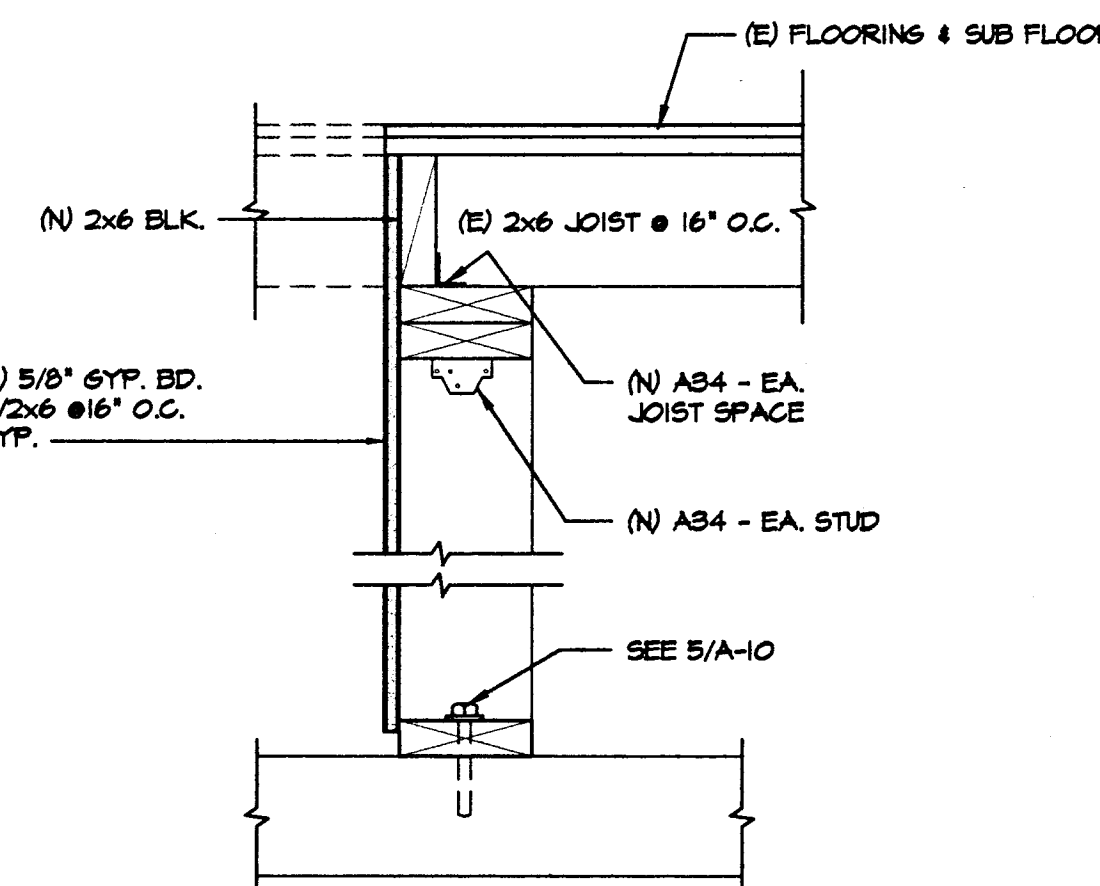
4 SECTION AT NEW WHEELCHAIR LIFT
A-10 SCALE: 1/4"=1'-0"



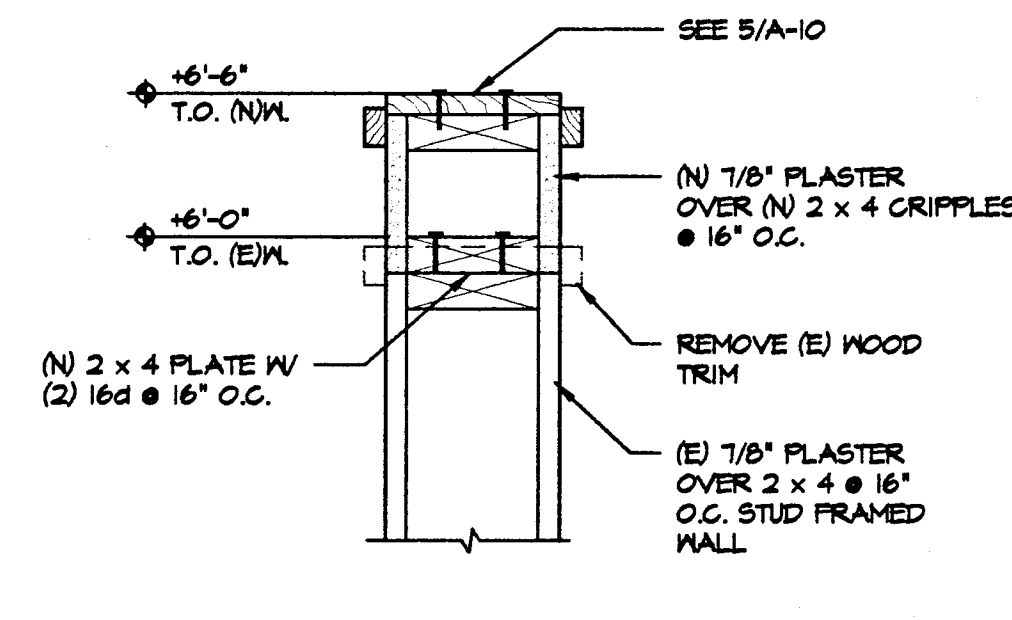
5 PARTITION DETAIL
A-10 SCALE: 1-1/2"=1'-0"



6 PARTITION DETAIL
A-10 SCALE: 1-1/2"=1'-0"



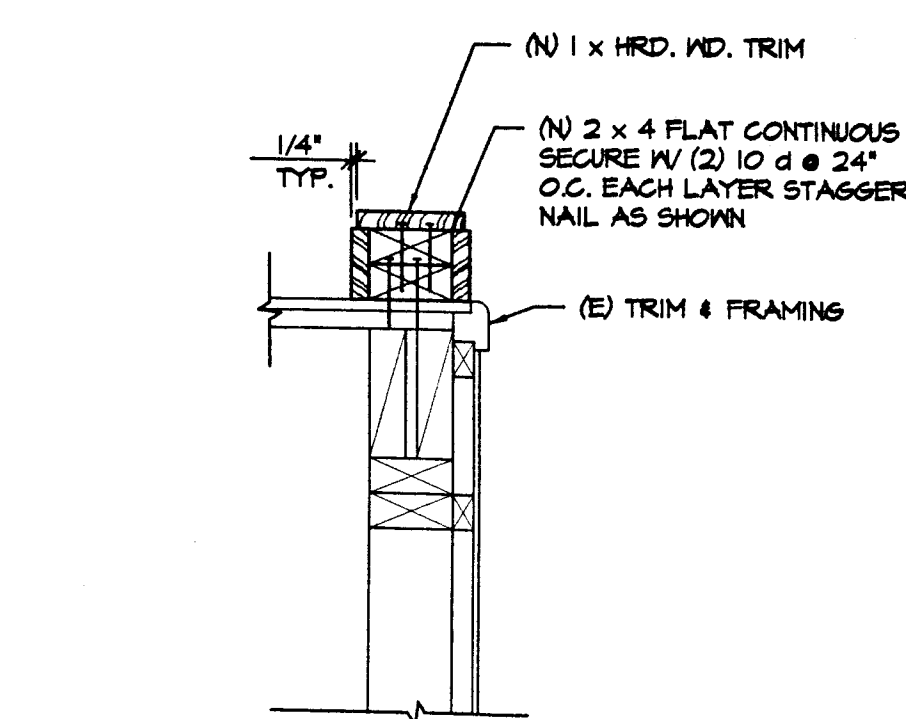
7 PARTITION DETAIL
A-10 SCALE: 1-1/2"=1'-0"



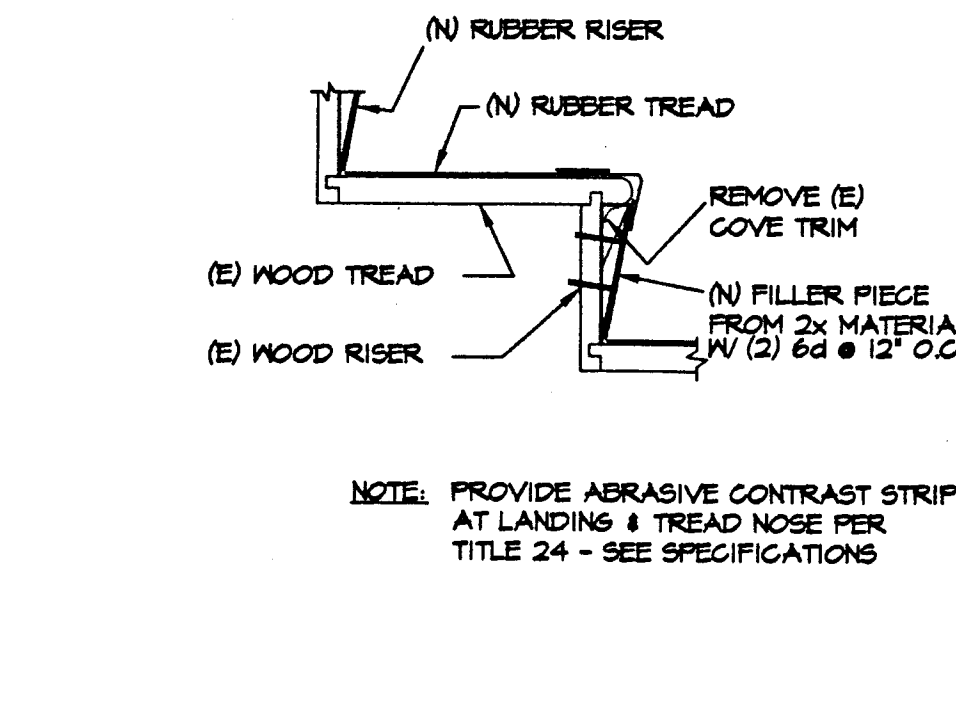
8 PARTITION DETAIL
A-10 SCALE: 1-1/2"=1'-0"

REMOVAL AND CONSTRUCTION NOTES (FOR DRAWINGS 15/A-10 ONLY)

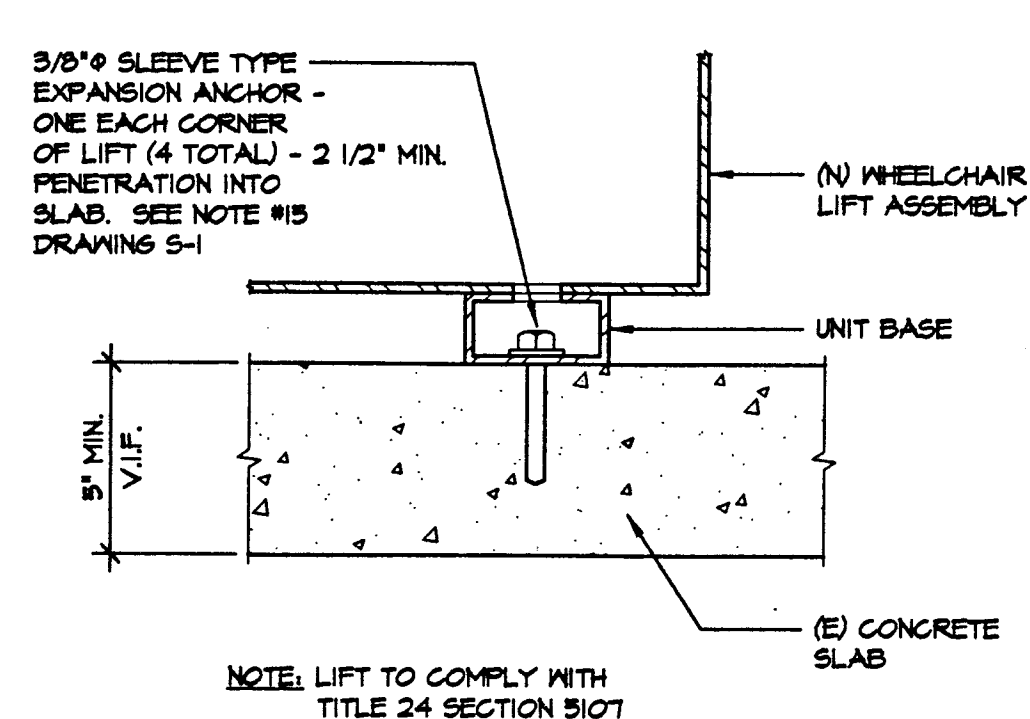
- 1 REMOVE (E) WOOD FRAMED PLATFORM, FLOOR FRAMING, HANDRAIL AND WOOD FRAMED STAIR AS SHOWN.
- 2 REMOVE (E) DOOR AND HARDWARE. PATCH (E) DOOR FRAME TO REMAIN.
- 3 REMOVE FIRST TWO LADDER RUNGS FROM THE FLOOR LINE. (S&N CUT)
- 4 (E) WOOD FRAME PLATFORM STRUCTURE TO REMAIN - WOOD FLOORING OVER 2x6 JOISTS @ 16" O.C. SITTING ON LOW 2x4 STUD WALLS AS SHOWN.
- 5 APPROXIMATE LOCATION OF (E) LOW 2x4 STUD WALLS UNDER WOOD PLATFORM STRUCTURE.
- 6 (E) CONCRETE SLAB, PROTECT FROM DAMAGE.
- 7 (E) PLATFORM ACCESS STAIR TO REMAIN, ONE EACH SIDE OF PLATFORM. SEE FLOOR PLAN DRAWING 15/A-1.
- 8 (N) WHEELCHAIR LIFT. SEE SPECIFICATIONS AND ELECTRICAL DRAWINGS.
- 9 (N) WOOD STUD PARTITION.
- 10 PATCH (E) HOLES IN CONCRETE FLOOR WHERE ANCHORS HAVE BEEN REMOVED.
- 11 PATCH (E) WALL TO MATCH (E) SURROUNDING CONDITION.
- 12 (N) TOE BOARD.
- 13 PLATFORM LIFT CALL BUTTON LOCATION @ 56" A.F.F.



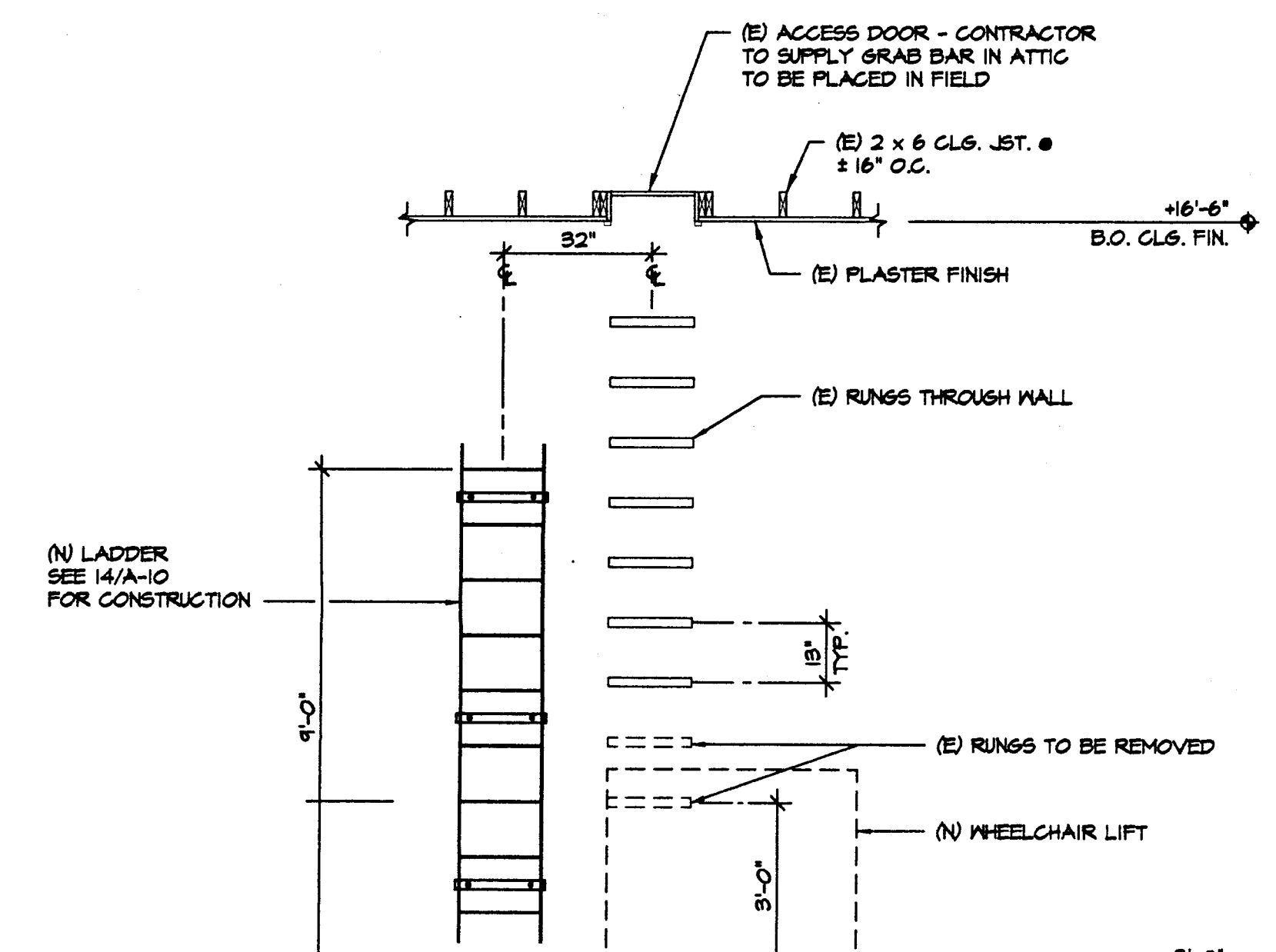
9 TOE BOARD DETAIL
A-10 SCALE: 1-1/2"=1'-0"



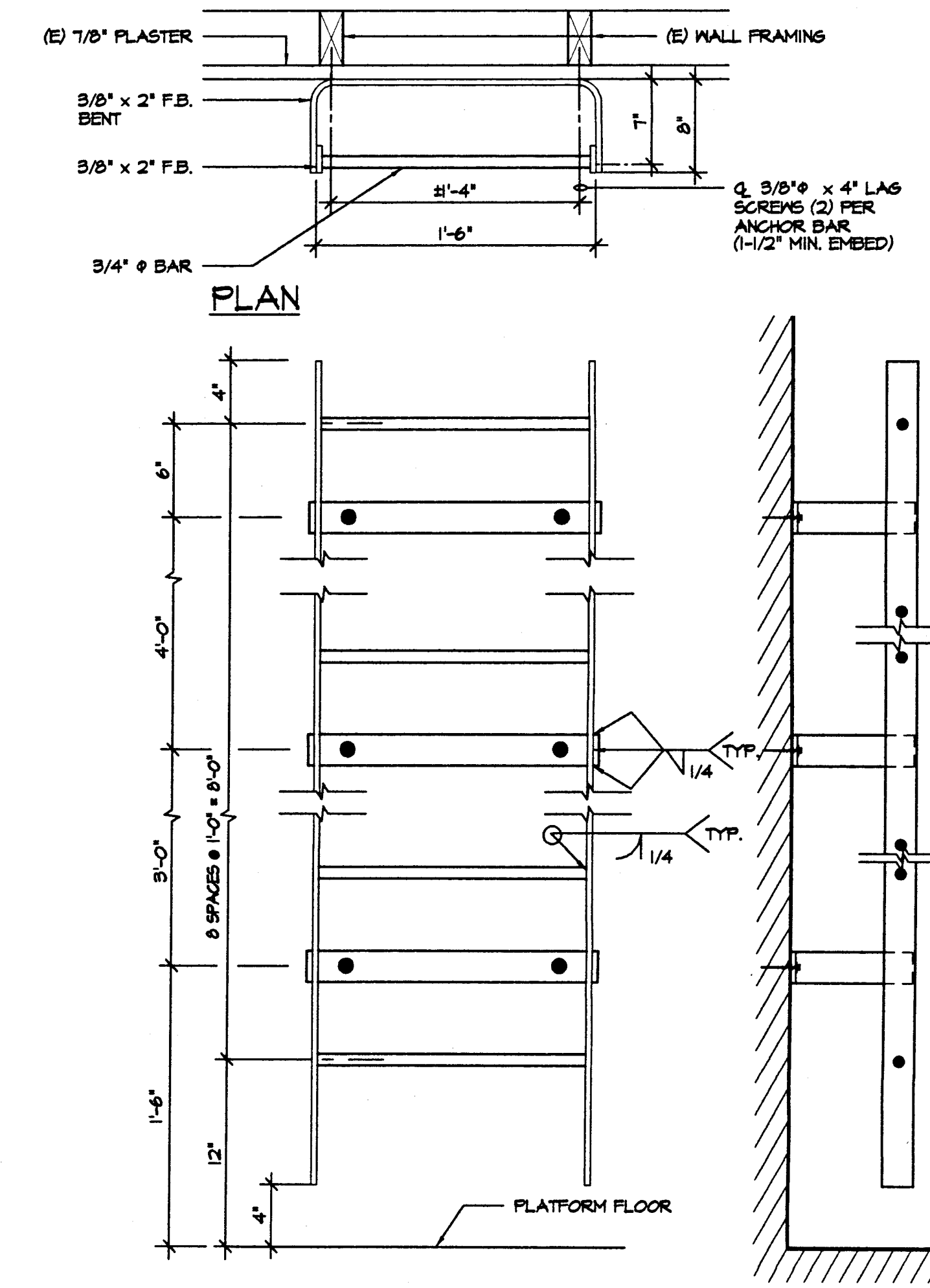
10 STAIR RISER DETAIL
A-10 SCALE: 1-1/2"=1'-0"



11 WHEELCHAIR LIFT ANCHOR DETAIL
A-10 SCALE: 3"=1'-0"

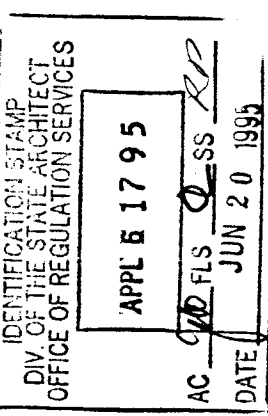


12 ELEVATIONS @ LADDERS
A-10 SCALE: 3/8"=1'-0"



13 LADDER DETAILS
A-10 SCALE: 1-1/2"=1'-0"

APPROVALS

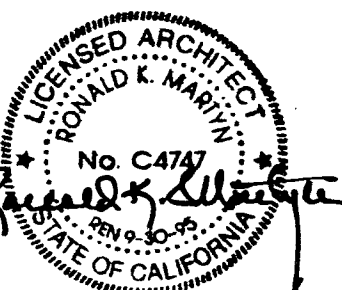


CONSULTANT

MODERNIZATION AT HIGHLAND ELEMENTARY SCHOOL FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

USE OF ASSOCIATED ARCHITECTS' DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY ASSOCIATED ARCHITECTS FOR THIS PROJECT ARE INSTRUMENTS OF ASSOCIATED ARCHITECTS' SERVICES FOR USE SOLELY WITH RESPECT TO THIS PROJECT AND UNLESS OTHERWISE PROVIDED ASSOCIATED ARCHITECTS SHALL BE DEEMED THE AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW STATUTORY AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT. THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS FOR INFORMATION AND REFERENCE IN CONNECTION WITH THE OWNERS USE AND OCCUPANCY OF THE PROJECT. ASSOCIATED ARCHITECTS' DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS SHALL NOT BE USED BY THE OWNER OR OTHERS ON OTHER PROJECTS FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS, UNLESS ASSOCIATED ARCHITECTS IS ADVISED TO BE IN WRITING UNDER THE AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO ASSOCIATED ARCHITECTS.

ARCHITECT



NOTE

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AT THE JOB AND SHALL BE RESPONSIBLE FOR ALL DISCREPANCIES BETWEEN DIMENSIONS OF THE ACTUAL WORK AND THOSE SHOWN IN THE DRAWINGS OR ARCHITECTS' APPROVED SHOP DRAWINGS. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR ALL QUANTITIES OF MATERIALS AND EQUIPMENT CALLED FOR TO PROPERLY COMPLETE THE WORK.

SHEET TITLE

WHEELCHAIR LIFT
DETAILS
ACCESS LADDER
DETAILS

DATE

6/16/95

FILE NO.

77-15-3

DRAWING NUMBER

15

A-10

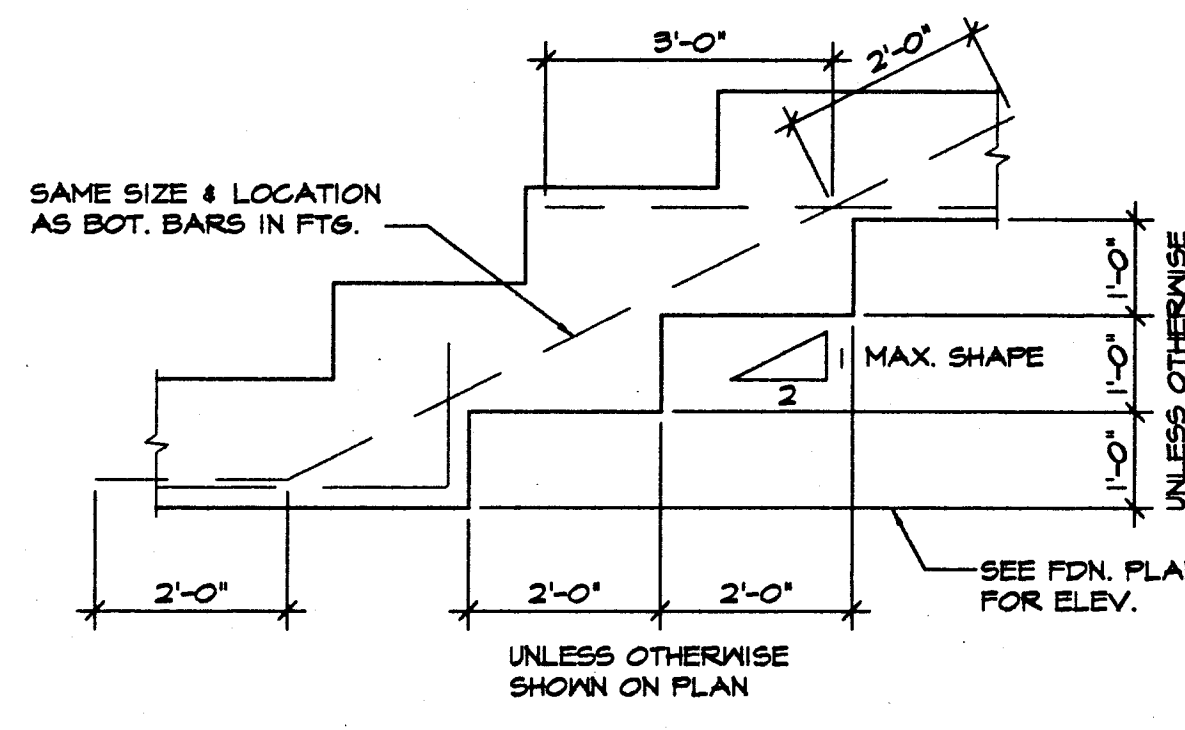
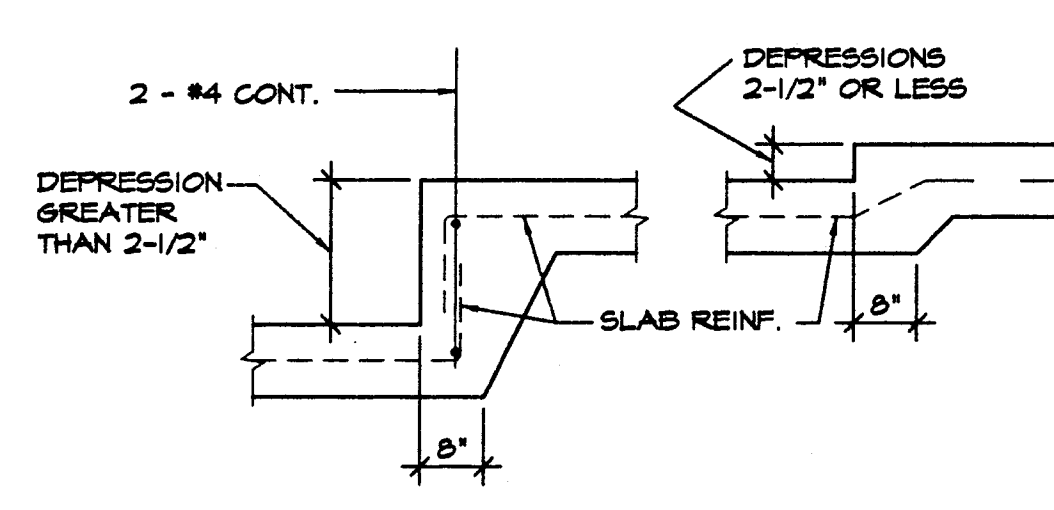
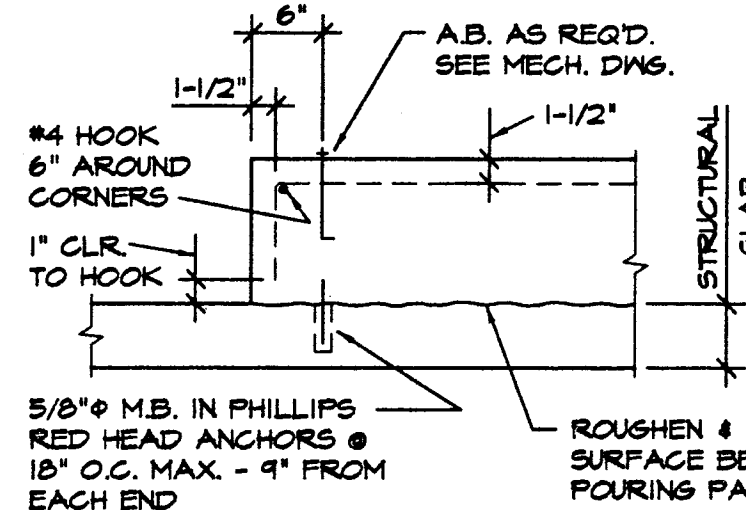
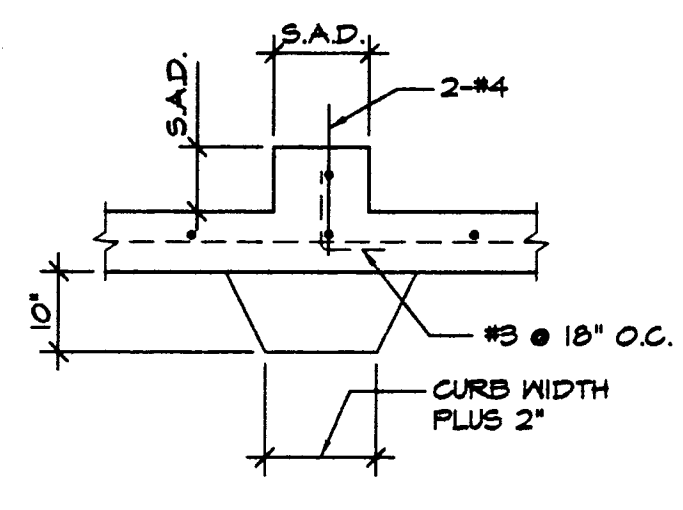
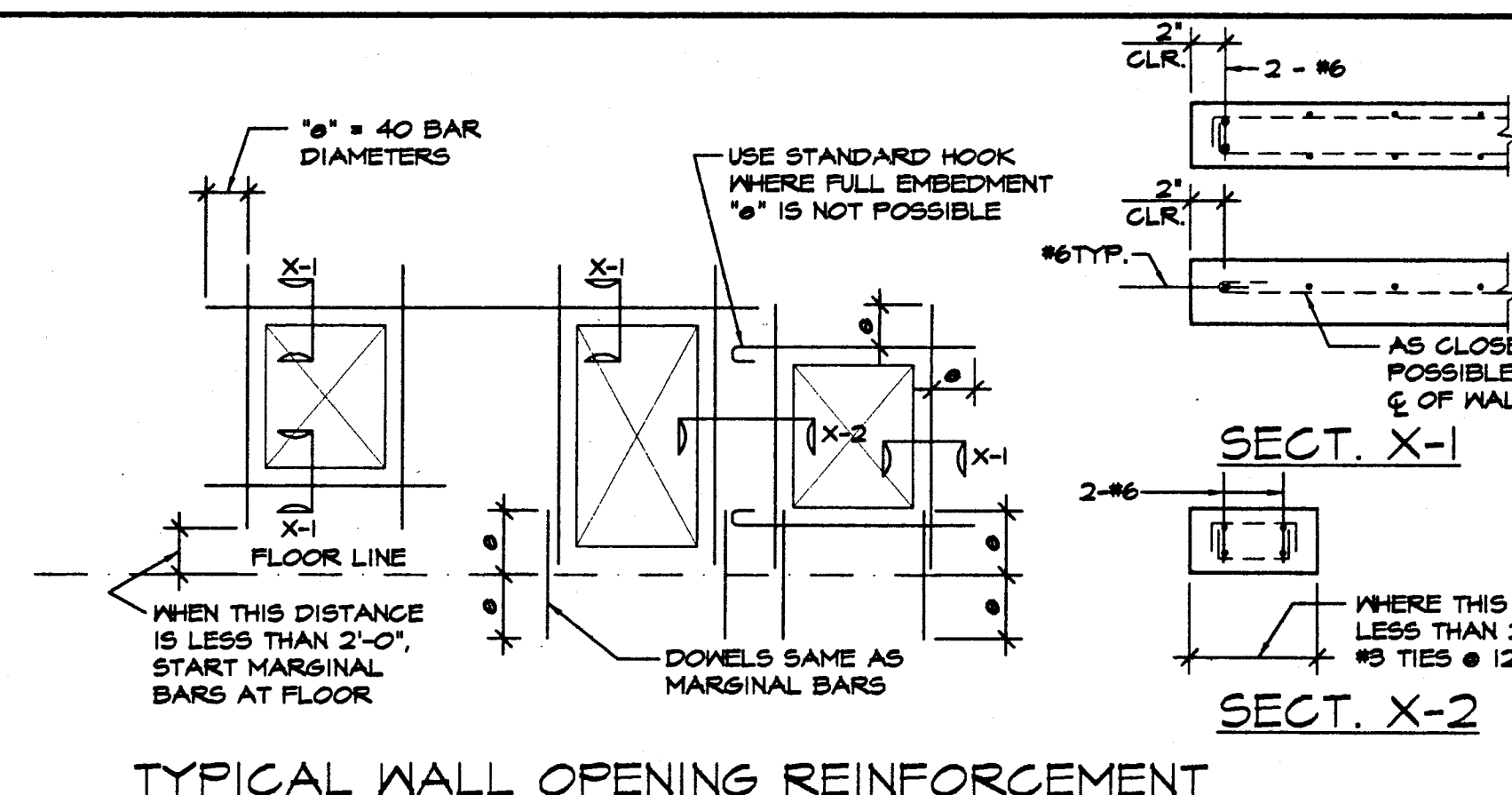
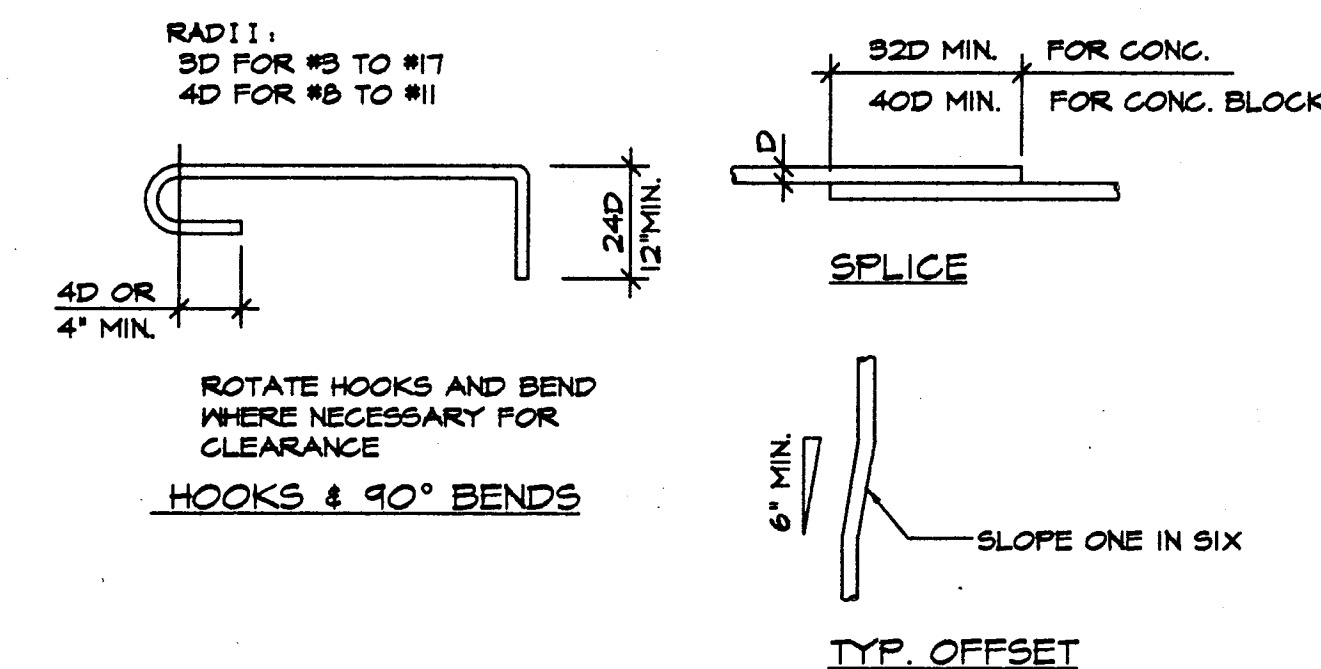
SHEET 14 OF 30

1. CODES.
ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF CCR, TITLE 24 AND 1991 UBC.
2. SPECIFICATIONS.
 - a. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. REFERENCE TO OTHER DRAWINGS.
 - a. SEE ARCHITECTURAL DRAWINGS FOR: KIND OF FLOOR FINISH AND LOCATIONS, DEPRESSIONS IN FLOOR SLABS AND FLOORS REQUIRED BY DOORS, WINDOWS, DUCTS, VENTS, PLUMBING ETC. ALL TYPES OF FLASHING INSULATED IN OR ATTACHED TO CONCRETE STRUCTURES, PAVING, WALKS, STAIRS, RAMPS, CURB WALLS, ETC. OF SLOPING SURFACES AND LOCATIONS OF DRAINS ETC.
4. DIMENSIONS.
 - a. DIMENSIONS, UNLESS OTHERWISE NOTED, ARE TO ROUGH CONCRETE SURFACE, CENTERLINE OF WALLS, COLLARS OF STUES & EXTERIOR WALLS.
5. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AS TO ELEVATIONS. ALL DISCREPANCIES, IF ANY, SHALL BE REPORTED TO THE ARCHITECT FOR ADJUSTMENT BEFORE SITE WORK.
6. OMISSIONS.
 - a. IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR ON ARCHITECTURAL NOTES OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR THAT ARE SHOWN OR SAID FOR.
7. EXCAVATION AND GRADING.
 - a. SEE SPECIFICATIONS.
8. FOUNDATIONS.
 - a. NOT APPLICABLE.
9. CONCRETE.
 - a. CONCRETE MEETING THE FOLLOWING REQUIREMENTS SHALL BE USED:

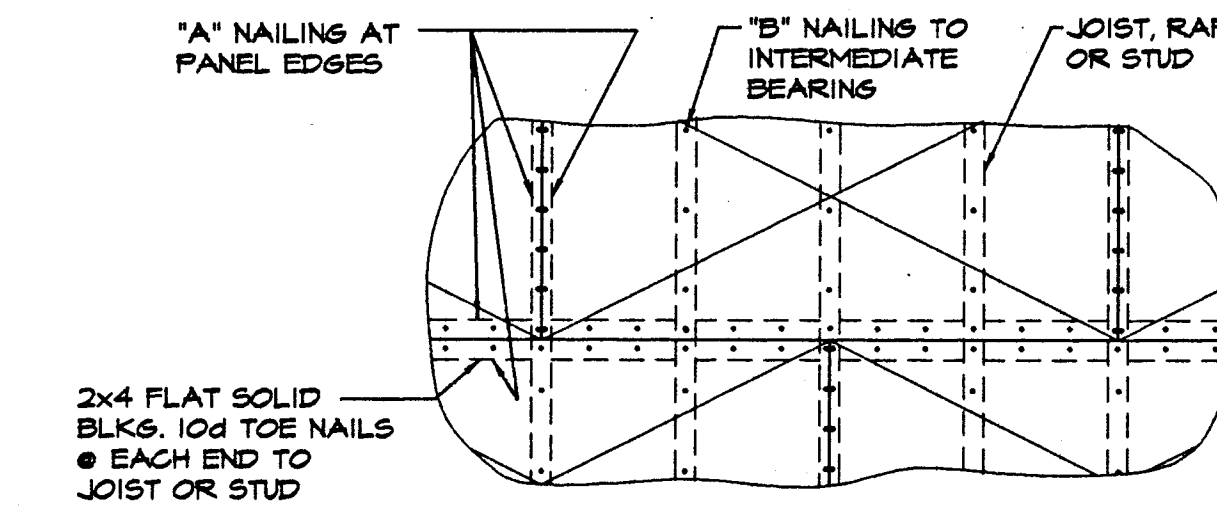
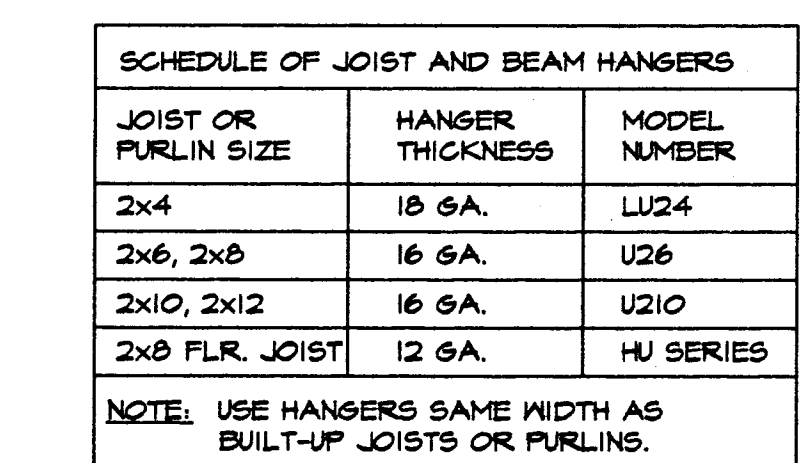
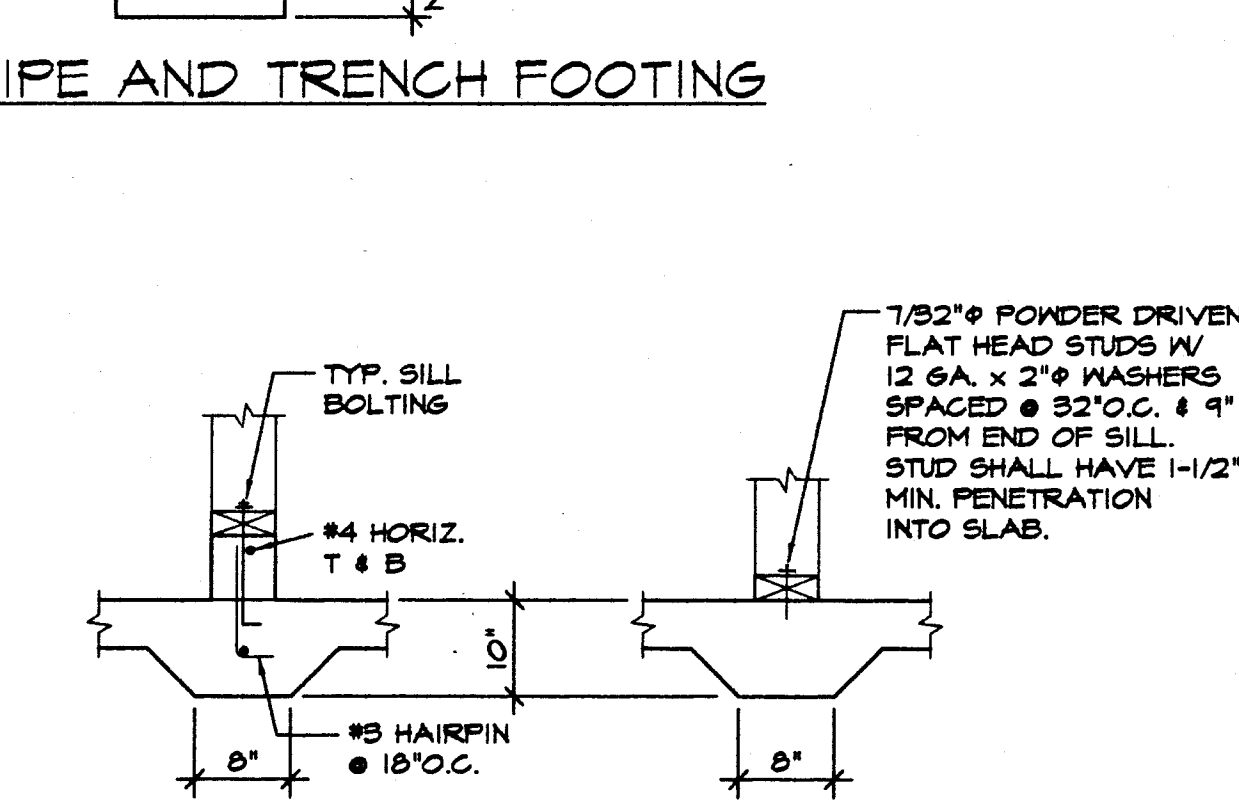
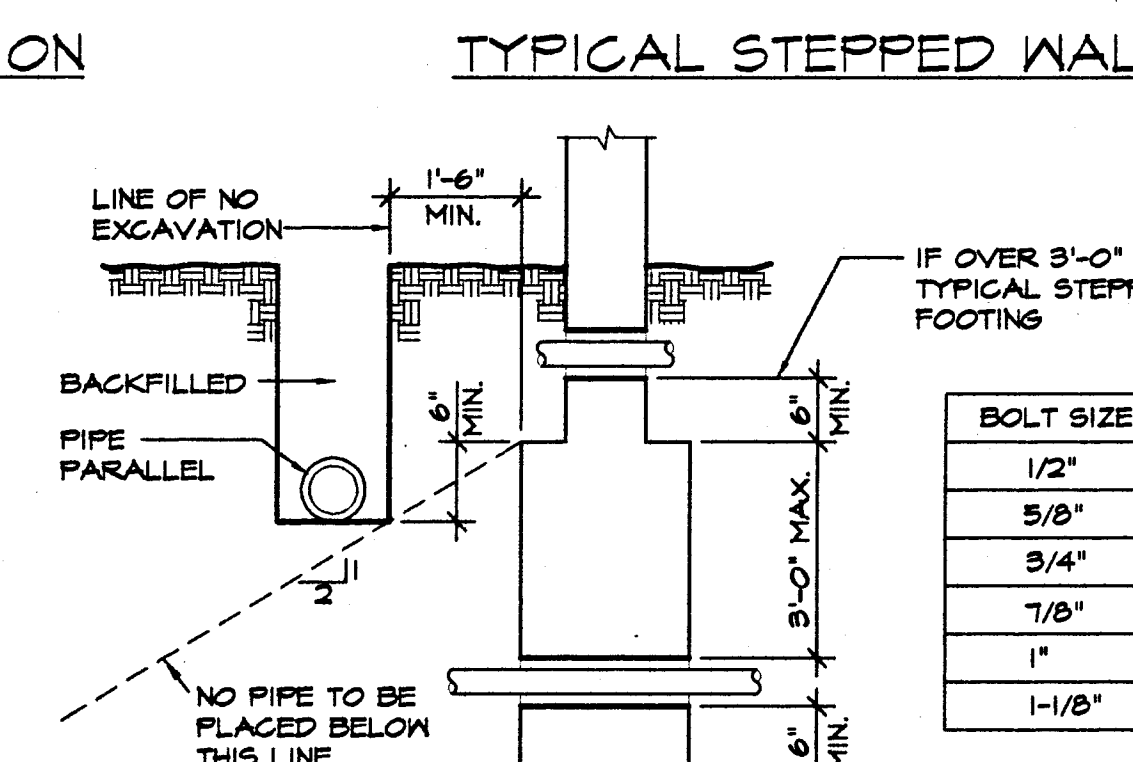
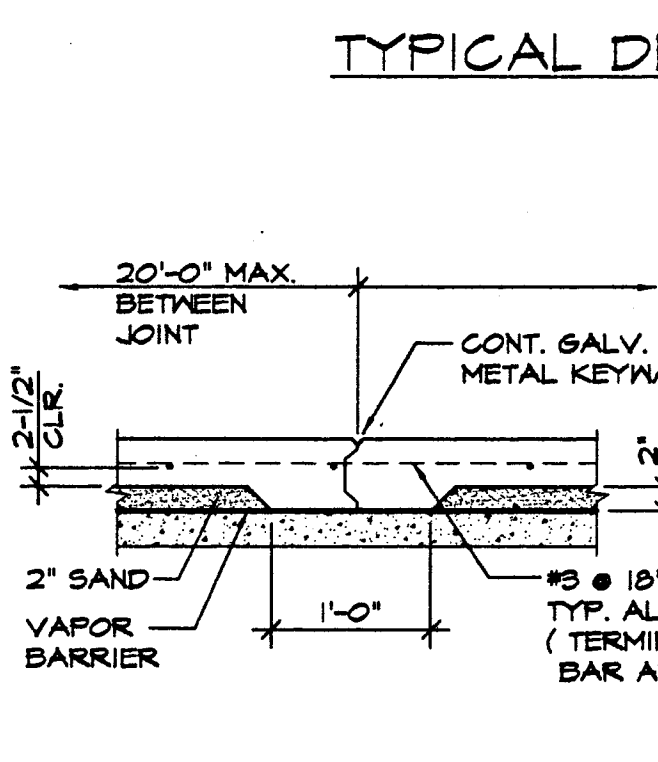
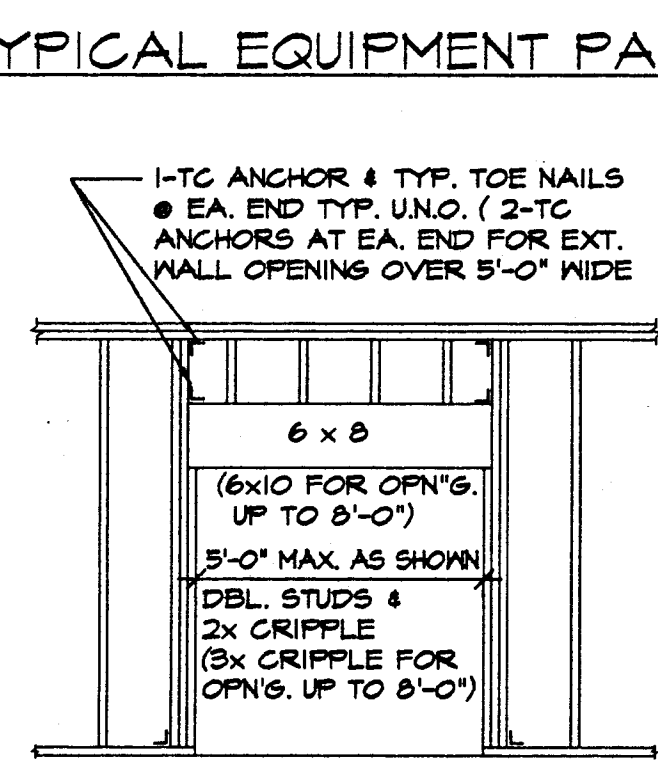
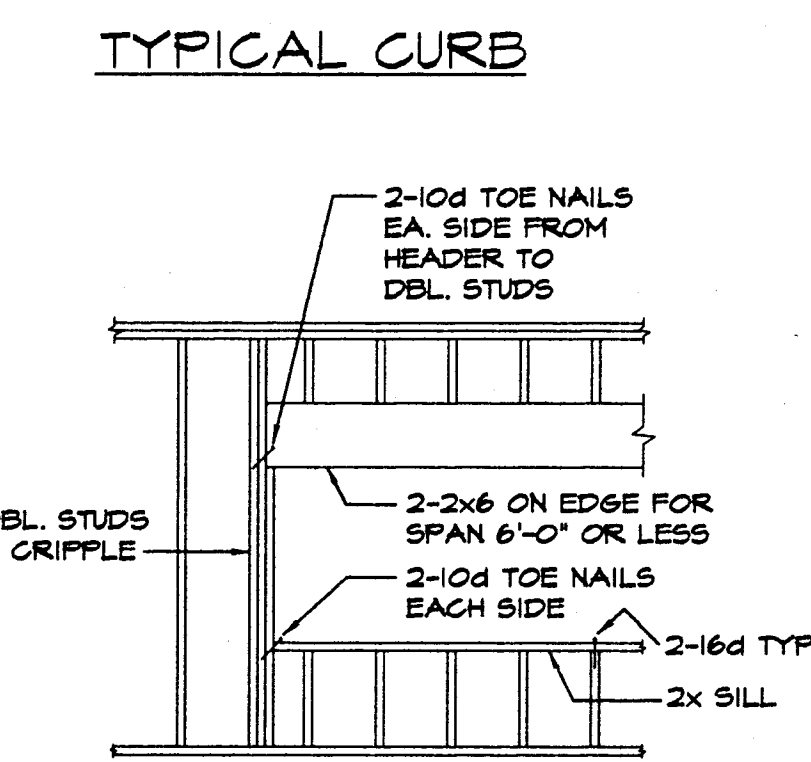
LOCATION	ULTIMATE COMPRESSIVE STRENGTH @ 28 DAYS	CEMENT SACK/ CUBIC YARD	MAXIMUM AGGREGATE	MAXIMUM SLUMP
FOOTINGS	3,000 PSI	5-1/4	3/4 INCH	9 INCHES
SLAB ON GRADE	3,000 PSI	5-1/4	3/4 INCH	9 INCHES
CONCRETE CURB	3,000 PSI	5-1/4	3/4 INCH	9 INCHES

NOTES:
EACH CONCRETE MIX SHALL BE DESIGNED BY AN ESTABLISHED TESTING LABORATORY UNDER THE SUPERVISION OF THE ARCHITECT OR ENGINEER. THE CONTRACTOR SHALL PAY FOR THE COST OF THE MIX DESIGN.

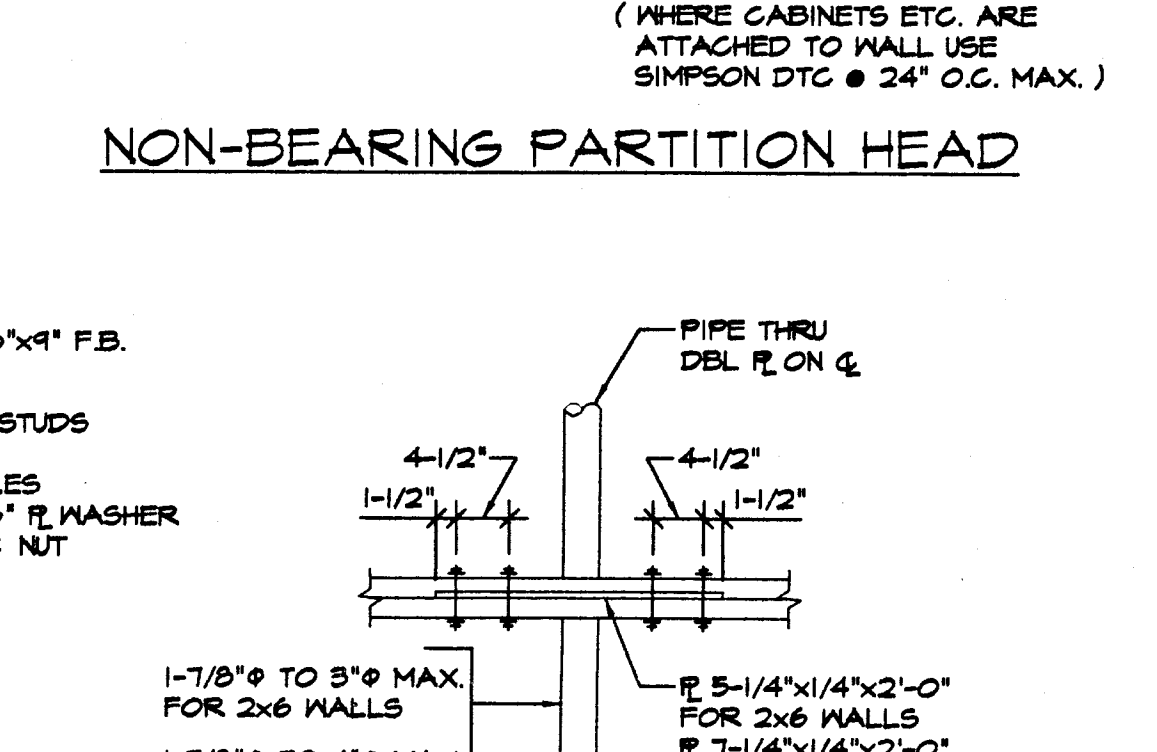
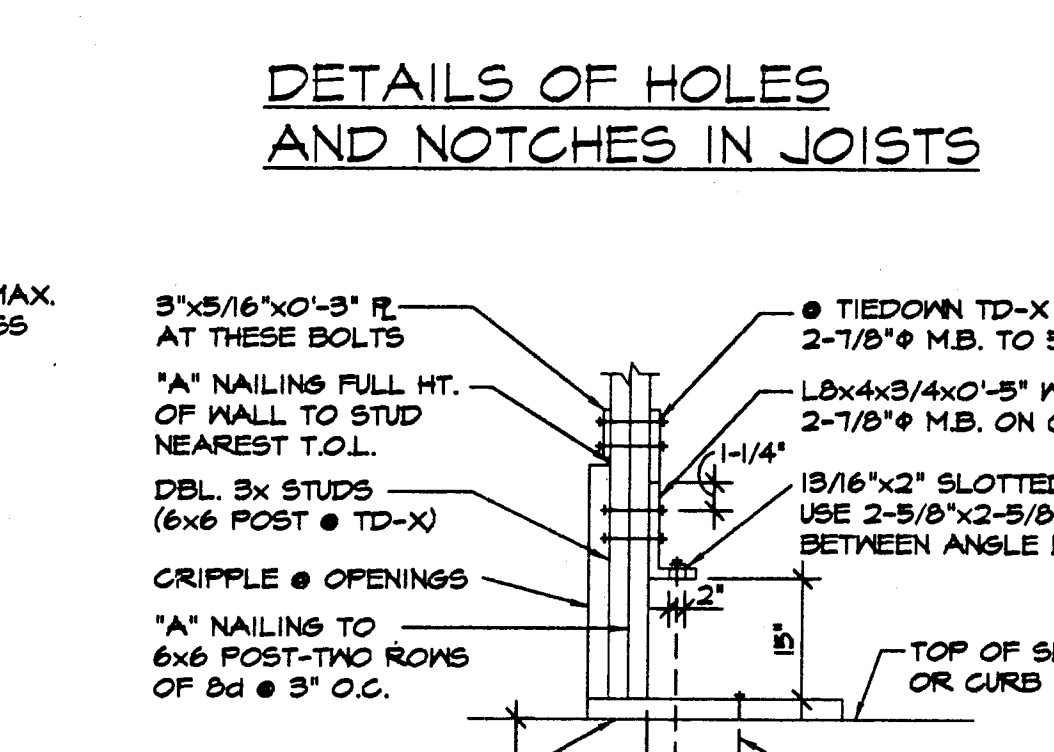
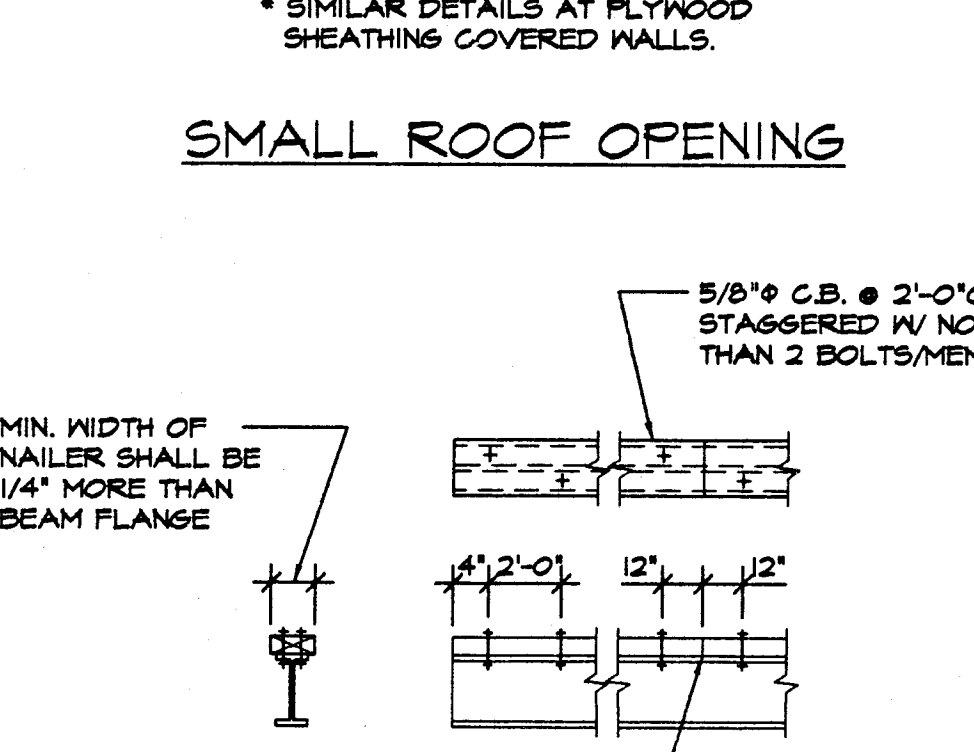
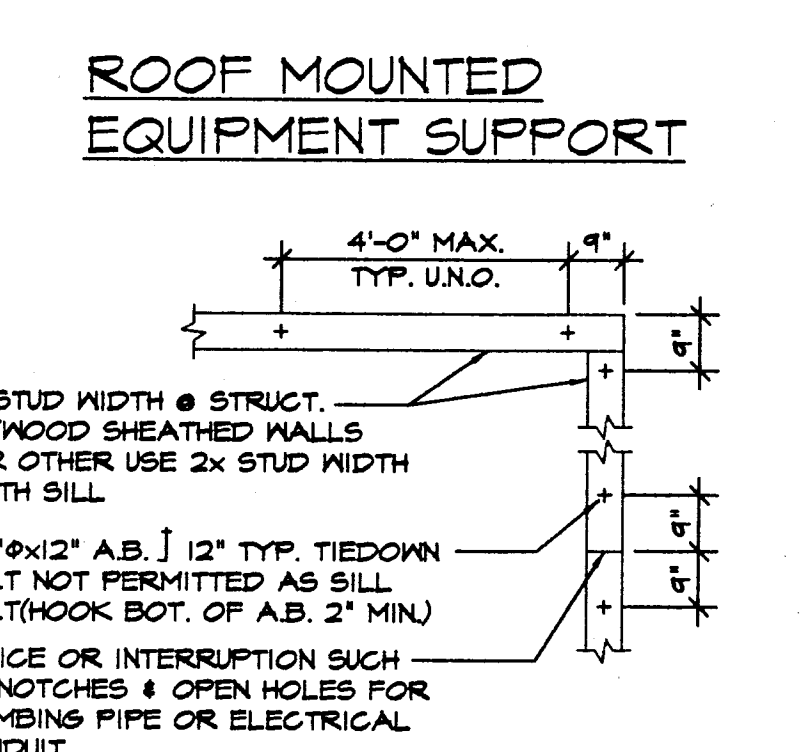
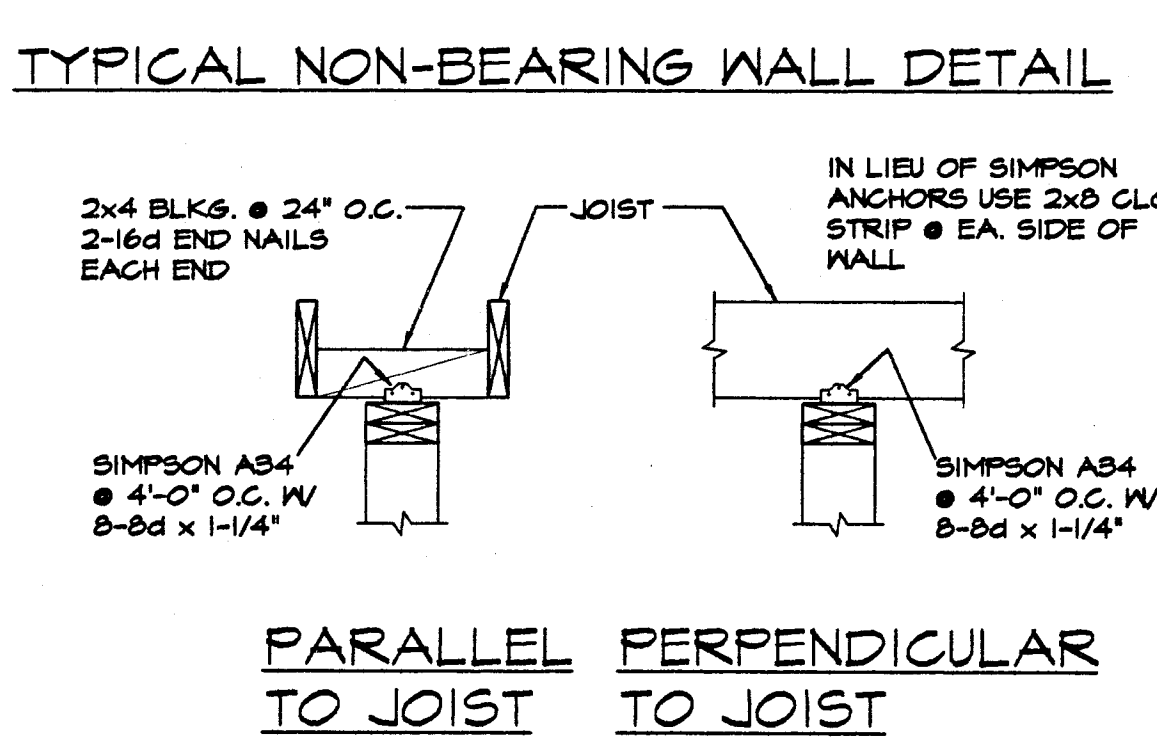
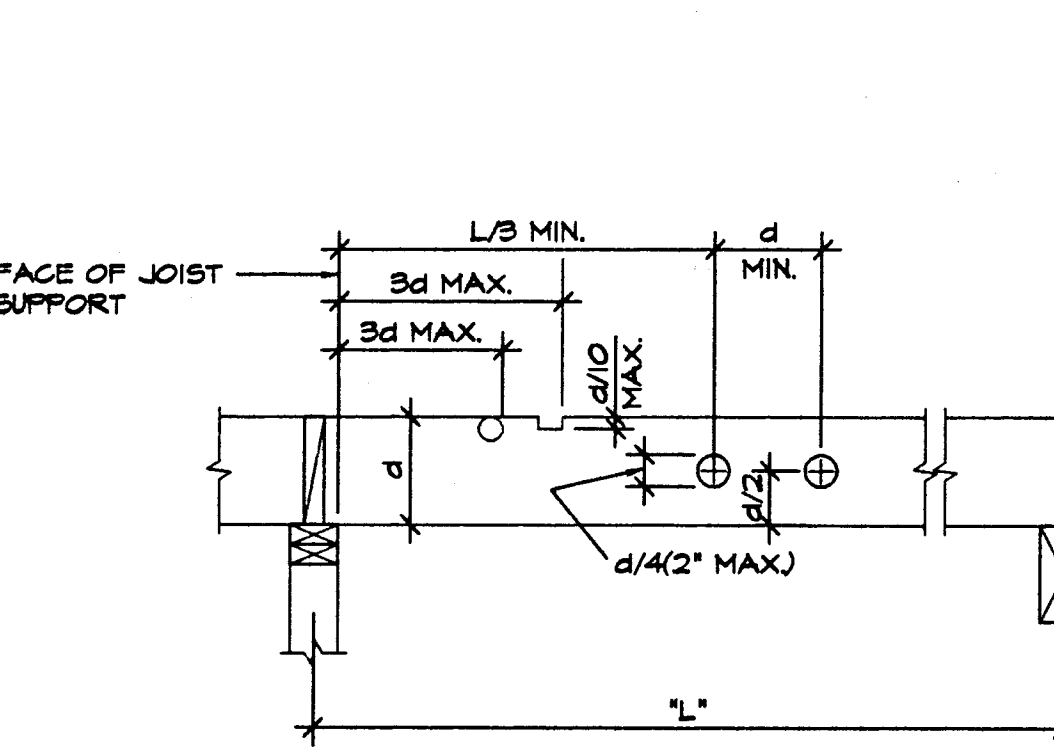
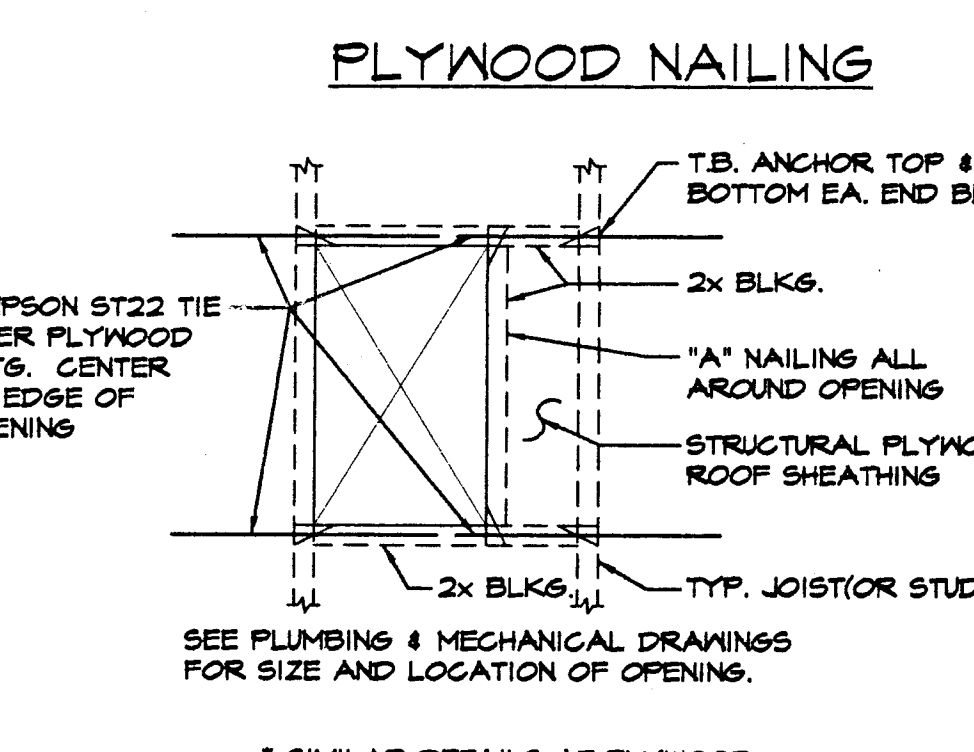
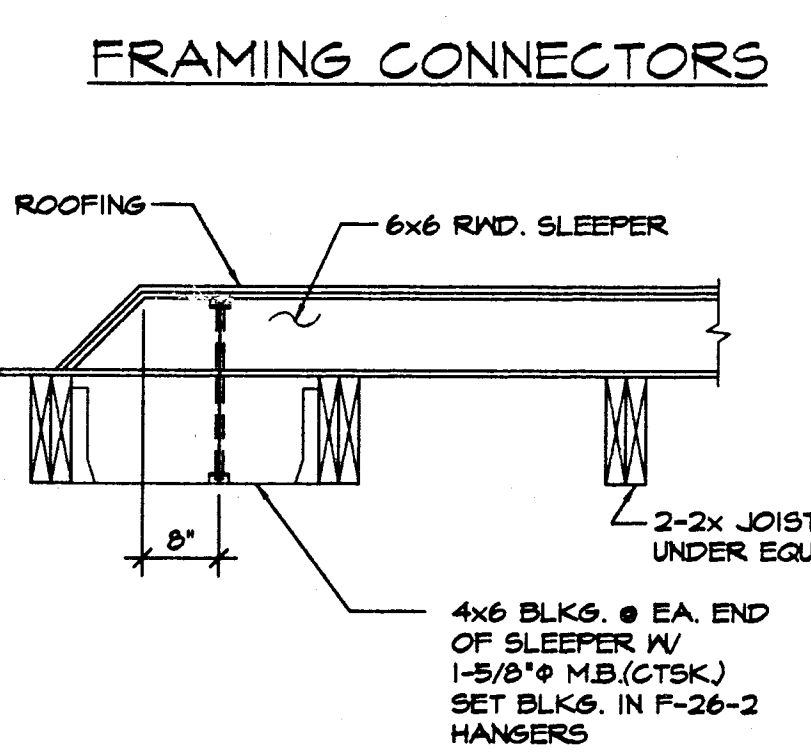
TESTS AND INSPECTIONS PER CCR TITLE 24, PART 2, CHAPTER 26.



BOLT SIZE	WASHER SIZE	WASHER THICK.
1/2"	2" x 2"	1/4"
5/8"	2-1/4" x 2-1/4"	1/4"
3/4"	2-3/4" x 2-3/4"	5/16"
7/8"	3-1/8" x 3-1/8"	5/16"
1"	3-5/8" x 3-5/8"	3/8"
1-1/8"	4" x 4"	7/16"



STRUCTURAL PLYWOOD SHEATHING NAILING U.N.O.			
SIZE & LOCATION	"A" NAIL	"B" NAIL	REMARKS
5/8" SHTS. @ ROOF	8d @ 6"	8d @ 12"	SEE ROOF SECTION
9/4" SUB-FLOOR SHTS.	10d @ 4"	10d @ 8"	STRONGS HOLD NAIL
1/2" SHTS. @ WALL	10d @ 4"	10d @ 12"	8d @ 3" O.C. @ SILL PL
NON-STRUCT. WALLS	8d @ 12"	8d @ 12"	8d @ 6" O.C. @ SILL PL



SYMBOLS & ABBREVIATIONS

S.A.D.	SEE ARCHITECTURAL DRAWING	SECT.	SECTION	V.I.F.	VERIFY IN FIELD
S.B.	CONTINUOUS WOOD MEMBER	ELEV. OR EL.	ELEVATION	D.J.	DOUBLE JOIST
S.B.	BLOCKING (BLKS.)	PL.	PLATE	C.J.	CONTROL JOINT
M.B.	SOLID BLOCKING	T.B.	TOP & BOTTOM	F.D.N.	FOUNDATION
C.B.	STANDARD MACHINE BOLT	R.W.	REDWOOD	J.H.	JOIST HANGER
C.B.	CARRIAGE BOLT	C.L.	CENTERLINE	C.TSK	COUNTERSINK
O.C.	ON CENTER	T.D.	TIEDOWN (SEE TYPICAL DETAIL)	S.M.D.	SEE MECHANICAL DRAWING
G.S.	FACE OF STUDS	F.T.S.	FLOOR	M.S.	WOOD TO STEEL
TYP.	TYPICAL	S.H.TS.	SHEATHING	D.S.	DOUBLE STUD
DET.	DETAIL	U.N.O.	UNLESS NOTED OTHERWISE	G.L.	GULFMAN BEAM

APPROVALS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

APPL 6 17 95

AC FLS SS RP
DATE JUN 20 1995

CONSULTANT

MODERNIZATION AT

HIGHLAND ELEMENTARY SCHOOL

FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

USE OF ASSOCIATED ARCHITECTS' DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY OR FOR THE ARCHITECT FOR THIS PROJECT ARE INSTRUMENTS OF ASSOCIATED ARCHITECTS' SERVICES FOR USE SOLELY WITHIN THE SCOPE OF THIS PROJECT. NO PARTS THEREOF SHALL BE PROVIDED, ASSOCIATED ARCHITECTS SHALL BE RELEASED FROM LIABILITY FOR ANY SUCH USE. THE ARCHITECTS RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS INCLUDING THE COPYRIGHT. THE ARCHITECTS' INSTRUMENTS OF SERVICE SHALL BE, INCLUDING REPRODUCIBLE COPIES OF ASSOCIATED ARCHITECTS' DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS FOR INFORMATION OF THE OWNERS, IN CONNECTION WITH THE OWNERS USE AND OCCUPANCY OF THE PROJECT. NO PARTS OF THE ARCHITECTS' DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS SHALL BE USED BY ANY OTHER PERSONS ON OTHER PROJECTS OR FOR ADDITIONS TO OR ALTERATIONS OR FOR COMPLETION OF THIS PROJECT. ANY SUCH USE SHALL BE AT THE USER'S SOLE RISK AND ADMITTED TO BE IN DEFAULT UNDER THIS AGREEMENT IN WRITING AND WITHOUT COMPENSATION TO THE ARCHITECTS.

ARCHITECT

LICENSED ARCHITECT
RONALD K. MARTIN
No. C4747
79819-30-20
STATE OF CALIFORNIA

Ronald K. Martin

NOTE:
THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AT THE JOB AND SHALL BE RESPONSIBLE FOR ALL DISCREPANCIES BETWEEN DIMENSIONS OF THE ACTUAL WORK AND THOSE SHOWN IN THE DOCUMENTS OR ARCHITECTS APPROVED SHOP DRAWINGS. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR ALL QUANTITIES OF MATERIAL OR EQUIPMENT CALLED FOR TO PROPERLY COMPLETE THE WORK.

SHEET TITLE

STRUCTURAL NOTES

TYPICAL DETAILS

DATE
6/16/95

FILE NO.
77-15-3

DRAWING NUMBER

S-1

SHEET 15 OF 30

LEGEND

PLUMBING

SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION
	S	SANITARY SEWER PIPING ABOVE FLOOR/GRADE		FD	FLOOR DRAIN
	S	SANITARY SEWER PIPING BELOW FLOOR/GRADE		DN/DROP	PIPING DOWN/DROP
	V	SANITARY VENT PIPING		RUP	PIPING RISE/UP
	G	NATURAL GAS PIPING		WCO	WALL CLEANOUT
	CW	DOMESTIC COLD WATER PIPING		U	PIPE UNION
	HW	DOMESTIC HOT WATER PIPING		BV	BALL VALVE
	FCO	FLOOR CLEANOUT		VTR	VENT THRU ROOF
	(N)	NEW WORK		HB	HOSE BIBB
	(E)	EXISTING WORK TO REMAIN		GV	GATE VALVE
	(RIN)	(E) WORK REINSTALLED		GC	GAS COCK
	(R)	(E) WORK TO BE REMOVED		DWG	DRAWING GALVANIZED
	CP	CONNECTION POINT OF (N) TO (E) WORK		CLG	CEILING MOUNTED
	AP	ACCESS PANEL		MTD	TYPICAL INCHES WATER GAUGE PANEL
	-	PIPING PLUG OR CAP			
	AD	ACCESS DOOR			
	CD	CONDENSATE DRAIN			
	CV	CHECK VALVE			
	(F)	FUTURE			
	FFC	FLEXIBLE PIPING CONNECTION			

MECHANICAL

SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION
	SD	SECTION AT ROUND DUCT		AVD	AUTOMATIC VOLUME DAMPER
	ED/RAD	SECTION AT RECTANGULAR SUPPLY DUCT		MVD	MANUAL VOLUME DAMPER
	RD	SECTION AT RECTANGULAR EXHAUST DUCT OR OUTDOOR AIR		BDD	BACKDRAFT DAMPER
		SECTION AT RECTANGULAR RETURN DUCT			90° RADIUS ELBOW R/D = 1.5 MIN
		TAPER TAKEOFF			90° ELBOW W/ TURNING VANES
	Ø	ROUND DUCT			LINED DUCT
	CEG/CEA	CEILING EXHAUST AIR GRILLE OR REGISTER			SINGLE LINE DUCTWORK LINED
	WSR	WALL SUPPLY AIR REGISTER			SINGLE LINE DUCTWORK
	WES/WEA	WALL EXHAUST AIR GRILLE OR REGISTER		LAT	LEAVING AIR TEMPERATURE MANUFACTURER
		AIR FLOW DIRECTION		MTG	MOUNTING
		SHEET NOTE INDICATOR		(N)	NEW WORK
		REGISTER TAG		NTS	NOT TO SCALE
	AFG	ABOVE FINISHED CEILING BLANK OFF (GSN)		OA	OUTSIDE AIR
	(E)	EXISTING TO REMAIN		PD	PRESSURE DROP
	EA	EXHAUST AIR		(R)	(E) WORK TO BE REMOVED
	EAT	ENTERING AIR TEMPERATURE		(R/RP)	(E) WORK REMOVED & REPLACED BY (N)
	EF	EXHAUST FAN		RA	RETURN AIR
	EQPT	EQUIPMENT		RPM	REVOLUTIONS/MINUTE
	ESP	EXTERNAL STATIC PRESSURE		RV	ROOF VENT OF RELIEF VENT
	FLA	FULL LOAD AMPS		SA	SUPPLY AIR
	GA	U.S. GAUGE		SHT	SHEET
	GSN	GALVANIZED SHEET METAL		SP	STATIC PRESSURE
				T	THERMOSTAT
				TAD	TRANSFER AIR DUCT
				UCD	UNDERCUT DOOR

PLUMBING GENERAL NOTES:

- EACH FLOOR DRAIN SHALL BE CLEANED AND FLUSHED OUT. DRAINS SHALL BE FREE FLOWING. REPLACE STRAINER AS NOTED IN FIXTURE AND EQUIPMENT SCHEDULE, AND ON THE DRAWINGS.
- EACH FLOOR DRAIN TRAP PRIMER SHALL BE REPLACED AS NOTED IN THE FIXTURE AND EQUIPMENT SCHEDULE, AND ON THE DRAWINGS.
- ALL (E) HALL OR CEILING ACCESS PANELS AND DOORS WITHIN TOILET ROOMS SHALL BE REMOVED AND REPLACED WITH (N).
- CAP AND PLUG ALL UNUSED SERVICES ABOVE CEILING, WITHIN HALL OR BELOW FLOOR. PATCH WALLS, CEILINGS, AND FLOORS TO MATCH FINISHED CONSTRUCTION.
- SAW/CUT (E) CONCRETE FLOORS AS REQUIRED TO MAKE CONNECTIONS TO (E) BELOW FLOOR SERVICES. (E) SERVICES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON AVAILABLE RECORD INFORMATION. VERIFY LOCATIONS OF ALL EXISTING SERVICES PRIOR TO START OF WORK.
- REUSE (E) VENT PIPING UNLESS OTHERWISE NOTED AND CAP UNUSED VENT CONNECTIONS.
- RELOCATE (E) PIPING FOR SERVICES TO REMAIN IN USE WHERE IT INTERFERES WITH AREAS OF NEW CONSTRUCTION AND WHERE SHOWN ON THE DRAWINGS.
- ALL (N) VENTS SHALL BE OFFSET AT TOP PLATES OF (E) AND (N) PARTITIONS. DO NOT CUT, BORE OR NOTCH TOP PLATES.

GENERAL NOTES

- SEE ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT AND QUANTITY OF ALL FIXTURES.
- BEFORE STARTING WORK, VERIFY LOCATIONS, ELEVATIONS AND SIZES OF ALL PIPING AND EQUIPMENT REQUIRING PLUMBING CONNECTIONS.
- VERIFY EXACT LOCATION, SIZE AND CONSTRUCTION OF EXISTING LINES.
- COORDINATE PLUMBING WORK WITH ALL OTHER WORK TO AVOID CONFLICT. RUN DUCTWORK, WIRING AND PIPING TO CLEAR ARCHITECTURAL OPENINGS, STRUCTURAL MEMBERS, OR OTHER OBSTRUCTIONS.
- COMBINE ALL VERTICAL VENTS WHERE PRACTICAL.
- INSTALL CLEANOUTS IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE AND LOCAL REQUIREMENTS.
- RUN ALL CW AND HW LINES ABOVE CEILING UNLESS NOTED OTHERWISE.
- INSPECT (E) EXPOSED & ACCESSIBLE VALVES AT THESE LOCATIONS AND REPLACE OR REPAIR DAMAGED OR LEAKING VALVES.
- ALL (R) PIPING, DUCT WORK, CONDUIT & WIRING SHALL BE DEMOLISHED TO POINTS OF CONCEALMENT WITHIN FLOOR, HALL OR CEILING CONSTRUCTION. PATCH OPENINGS VACATED BY (R) MATERIALS TO MATCH (E) OR (N) FINISHES AS SPECIFIED.
- THE PROJECT INSPECTOR AND CONTRACTOR SHALL INSPECT (E) WOODS FRAMING UNCOVERED BY THE WORK. ALL DETERIORATED OR OTHERWISE UNACCEPTABLE MEMBERS SHALL BE REPORTED TO THE ARCHITECT AND REPLACED OR REPAIRED IN ACCORDANCE WITH O.R.S. APPROVED DETAILS PROVIDED BY THE ARCHITECT.
- (E) AND (N) WOOD FRAMING, INCLUDING STUDS AND JOISTS, SHALL NOT BE NOTCHED OR BORED EXCEPT AS IDENTIFIED IN THESE PLANS AND SPECIFICATIONS. REFER TO DRAWING S-1, "DETAILS OF HOLES AND NOTCHES IN JOISTS".
- ALL PIPES, DUCTS AND CONDUITS SHALL BE SUPPORTED AND BRACED FOR THE SHACMA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS".

IN ACCORDANCE WITH TITLE 24, SECTION 2956(b) AND TABLE NO. 25-P, DETAILS SHALL BE PROVIDED FOR THE SEISMIC ANCHORAGE OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT. ANCHORAGE DETAILS SHALL BE BASED UPON APPROPRIATE DESIGN CALCULATIONS.

FOR EQUIPMENT WEIGHING 400 POUNDS OR MORE ANCHORAGE DETAILS AND APPROPRIATE DESIGN CALCULATIONS SHALL BE SUBMITTED AS PART OF THE MECHANICAL AND ELECTRICAL DRAWING. "DEFERRED APPROVAL" ITEMS WILL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE PLAN CHECK SUPERVISOR.

EXCEPTION: ATTACHMENTS OF EQUIPMENT WEIGHING LESS THAN 400 POUNDS AND SUPPORTED DIRECTLY ON THE FLOOR OR ROOF STRUCTURE, FURNITURE OR TEMPORARY OR MOVABLE EQUIPMENT AND EQUIPMENT WEIGHING LESS THAN 20 POUNDS THAT IS SUPPORTED BY VIBRATION ISOLATION DEVICES SUSPENDED FROM THE ROOF, WALL OR FLOOR, NEED NOT BE DETAILED ON THE PLANS PROVIDED THE FOLLOWING NOTES ARE INCLUDED ON THE MECHANICAL AND ELECTRICAL PLANS.

NOTICE:

THIS TABLE HAS BEEN PREPARED FOR AN IMPORTANCE FACTOR OF I=1.0 AND FOR SEISMIC ZONE 4. MAKE APPROPRIATE ADJUSTMENT FOR ANY OTHER VALUES.

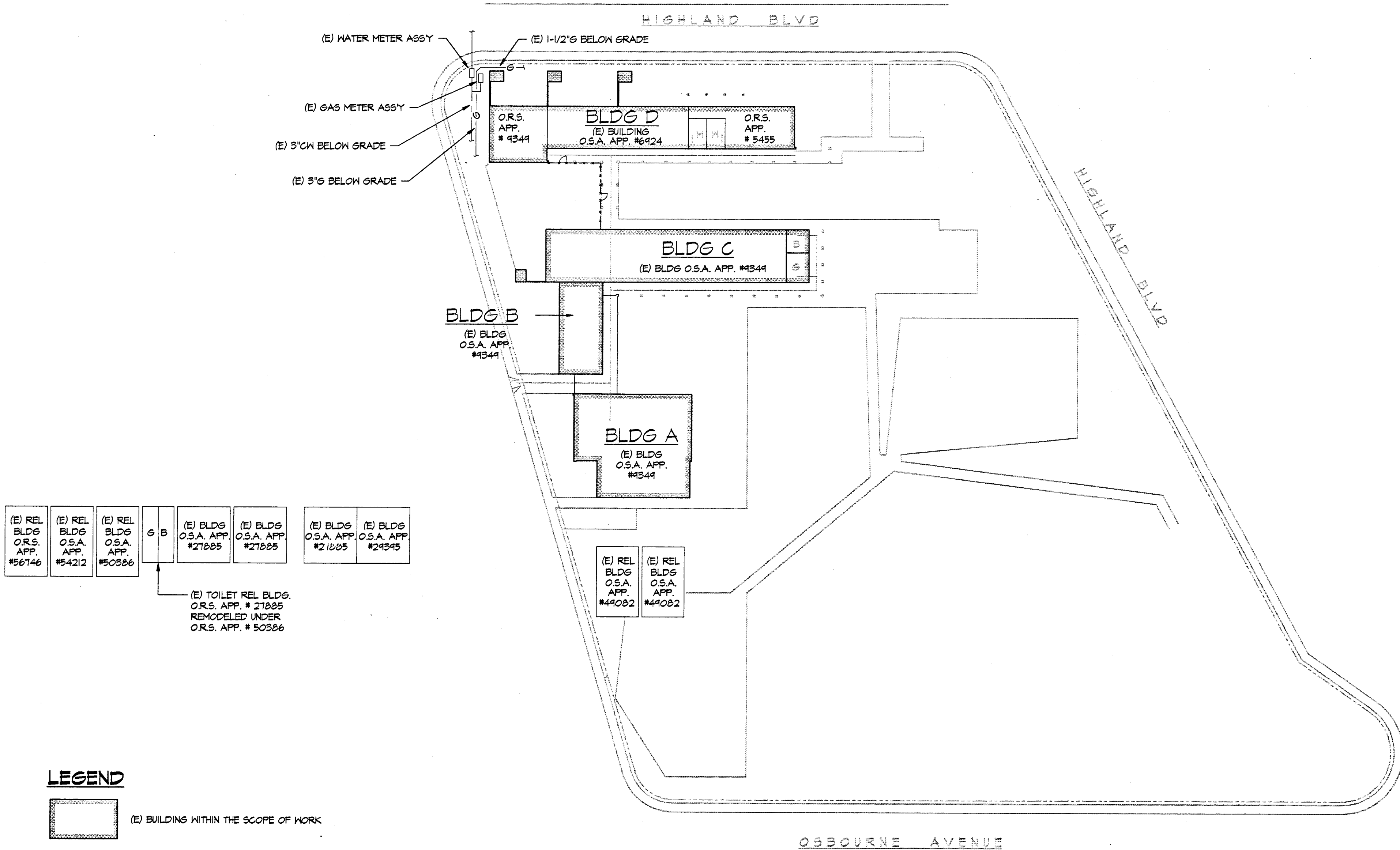
ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

FIXED EQUIPMENT ON GRADE	20% OF OPERATING WEIGHT
FIXED EQUIPMENT ON STRUCTURE	30% OF OPERATING WEIGHT
EMERGENCY POWER EQUIPMENT ON GRADE	30% OF OPERATING WEIGHT
EMERGENCY POWER EQUIPMENT ON STRUCTURE	40% OF OPERATING WEIGHT

SIMULTANEOUS VERTICAL FORCE - USE 1/8X HORIZONTAL FORCE.

FOR FLEXIBLY MOUNTED EQUIPMENT SEE TITLE 24, SECTION 2956(b)(P).

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT.

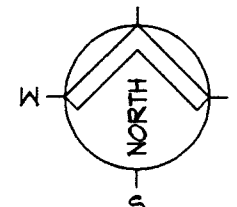


LEGEND

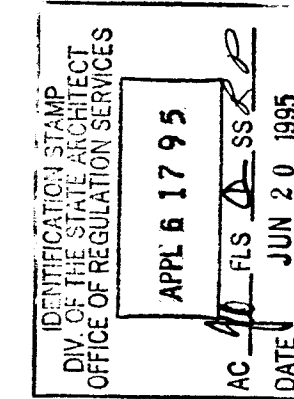
- (E) BUILDING WITHIN THE SCOPE OF WORK
- (E) BUILDING OUTSIDE THE SCOPE OF WORK DOES NOT QUALIFY FOR MODERNIZATION

1 SITE PLAN

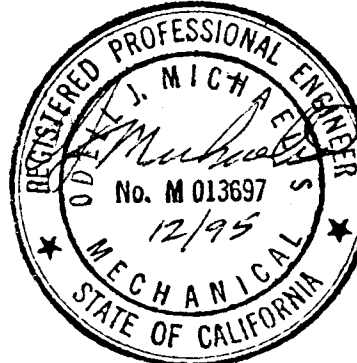
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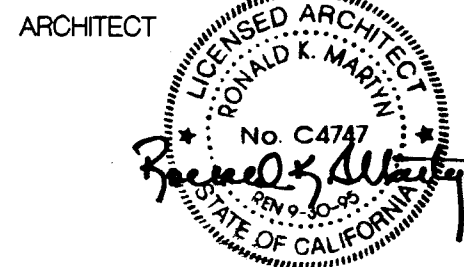
APPROVALS



CONSULTANT



MODERNIZATION AT
**HIGHLAND
ELEMENTARY SCHOOL**
FOR THE HAYWARD UNIFIED SCHOOL DISTRICT



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SHEET TITLE

**MECHANICAL &
PLUMBING SITE PLAN,
LEGEND & NOTES**

DATE

6/16/95

FILE NO.

77-15-3

DRAWING NUMBER

15


MP-1

SHEET 16 OF 30

FURNACE SCHEDULE												
MARK	MANUFACTURER & MODEL No.	HEATING, MBH		SUPPLY FAN						AIR FILTERS	WEIGHT	REMARKS
		INPUT	OUTPUT	CFM	ESP	SPEED (2)	BHP	HP	ELECTRICAL			
F-1	STERLING FV-20	150	120	3,000	0.5	-	1.2	1.5	208/3/4/60	4 - 20"x20"x2"	800	(3) ROOF TOP
F-2	COMFORT MAKER GUA OBO (1)	80	64	1000	0.5	LOW	.25	1/2	115/1/60	1 - 16"x25"x1"	440	
F-3	COMFORT MAKER GUA OBO (1)	80	64	1000	0.5	LOW	.25	1/2	115/1/60	1 - 16"x25"x1"	440	
F-4	COMFORT MAKER GUA OBO (1)	80	64	1000	0.5	LOW	.25	1/2	115/1/60	1 - 16"x25"x1"	440	
F-5	COMFORT MAKER GUA OBO (1)	80	64	1000	0.5	LOW	.25	1/2	115/1/60	1 - 16"x25"x1"	440	
F-6	COMFORT MAKER GUA OBO (1)	80	64	1000	0.5	LOW	.25	1/2	115/1/60	1 - 16"x25"x1"	440	
F-7	COMFORT MAKER GUA OBO (1)	80	64	1000	0.5	LOW	.25	1/2	115/1/60	1 - 16"x25"x1"	440	
F-8	COMFORT MAKER GUA OBO (1)	80	64	1000	0.5	LOW	.25	1/2	115/1/60	1 - 16"x25"x1"	440	
F-9	COMFORT MAKER GUA OBO (1)	80	64	1000	0.5	LOW	.25	1/2	115/1/60	1 - 16"x25"x1"	440	

NOTES:

1. PROVIDE FLAME AIR FURNACE ENCLOSURE.
2. PROVIDE 3-SPEED SUPPLY FAN OPERATION.
3. PROVIDE STAINLESS STEEL HEAT EXCHANGER & BURNER.

EXHAUST FAN SCHEDULE															
MARK	MANUFACTURER & MODEL No. "COOK" 	FAN				MOTOR			CONTROLS BY	OPERATING WEIGHT LBS	REMARKS				
		CFM	SP	RPM	SONES	HP	WATT	ELECTRICAL POWER							
EF-1	ACRU-B-100R2B	300	0.25	-	2.2	1/6	125	115/1/60	EMS CONTRACTOR	45		2	3	4	5
EF-2	ACRU-B-100R2B	300	0.25	-	2.2	1/6	125	115/1/60	EMS CONTRACTOR	45		2	3	4	5
EF-3	ACRU-B-100R2B	300	0.25	-	2.2	1/6	125	115/1/60	EMS CONTRACTOR	45		2	3	4	5
EF-4	ACRU-B-100R2B	300	0.25	-	2.2	1/6	125	115/1/60	EMS CONTRACTOR	45		2	3	4	5
EF-5 THRU EF-10	SEMINI-S-10	200	0.25	1050	1.6	-	81	115/1/60	ELECTRICAL CONTRACTOR	55		2	3		6

NOTES:

- (1) FAN UNITS SHALL BE U.L. LISTED.
- (2) BACK DRAFT DAMPERS
- (3) BIRD SCREEN
- (4) DISCONNECT SWITCH
- (5) VCS CURB
- (6) CONN TO LIGHT SWITCH

REGISTER SCHEDULE					
MARK	MANUFACTURER & MODEL No. "METALAIR"	TYPE	SERVICE	NECK SIZE (W" x H")	REMARKS
1	MODEL 42-CD	WEG	SUPPLY	36 x 6	W/ MODEL CODE
2	MODEL 2000FD	WER	EXHAUST	40 x 18	FITTED W/ OBD
3	MODEL HD-RH	WEG	RELIEF	24 x 24	MOUNTED (E) RV
4	MODEL CC5	CER	EXHAUST	10 x 10	
5	MODEL CC5	CER	RELIEF	16 x 16	

NOTES:

1. ALL REGISTERS SHALL BE OF ALUMINUM CONSTRUCTION.
2. ALL REGISTERS HAVE OFF-WHITE PAINTED FINISH.

ROOF VENT SCHEDULE					
ITEM	MANUFACTURER & MODEL No. "COOK"	THROAT SIZE (INCHES)	DUTY	CURB TYPE	BACK DRAFT DAMPER
RV-1 THRU RV-7	MODEL PR-12	12"ø	RELIEF	VCS	L-10

FIXTURE AND EQUIPMENT SCHEDULE					
MARK	FIXTURE / EQUIPMENT	MODEL NO.	SIZE / CAPACITY	TRIM / ACCESSORIES	REMARKS
WC-1	WATER CLOSET	"MADERA" AQUAMETER 2234.015	3.5 GPF MAX	1-1/2" TOP FLUSH VALVE "H5" SEAT LOCATE FLUSH VALVE HANDLE AT WIDE SIDE OF STALL AT (E) LOCATIONS	"SIPHON JET" FLOOR OUTLET
WC-2	STAFF WATER CLOSET (WC)	"NEW CADET" AQUAMETER 3045.102	3.5 GPF MAX	1-1/2" TOP FLUSH VALVE "H5" SEAT LOCATE FLUSH VALVE HANDLE AT WIDE SIDE OF STALL SEE ARCH. FOR WC LOCATIONS AND HEIGHT REQUIREMENTS	"SIPHON JET" FLOOR OUTLET
L-1	LAVATORY (WC)	"LUCERNE" 0555.012	20-1/2" X 18-1/4" 1.25 GPM	802A-255 W/ 3/4" HANDLES FOR DUAL TEMP. 89T-E12-664 FOR SINGLE TEMP. T125.018 GRID DRAIN INSULATE TRAP & SUPPLY LINES W/ "TRUEBRO" HAND-LAV KIT	CONCEALED ARM SUPPORT
UR	URINAL (WC)	"ALLERBOOK" 6541.152	1.0 GPF MAX 3/4" TOP SPUD	PROVIDE "SLONE" ROYAL FLUSH VALVE AT URINALS NOT SERVED BY AUTOMATIC FLUSHING SYSTEM.	"SIPHON JET" WALL OUTLET
DF-1	DRINKING FOUNTAIN (WC)	1075		POLISHED POLYMARBLE	WALL MOUNTED ADJACENT TO DF-2 FOR HEIGHT SEE ARCH
DF-2	DRINKING FOUNTAIN	1075		POLISHED POLYMARBLE	WALL MOUNTED HEIGHT ABOVE DF-1 FOR HEIGHT SEE ARCH
FCO	FLOOR CLEANOUT	4043	4" MAX PIPE SIZE	TOP SET FLUSH TO FLOOR	
WCO	WALL CLEANOUT	"J.R. SMITH" 4472	4" MAX PIPE SIZE	LOCATED ON FIXTURE SIDE	W/ SHALLOW STAINLESS STEEL COVER
SA	WATER HAMMER ARRESTOR	"J.R. SMITH" 5000 SERIES		FACTORY PRE-CHARGED	
HB-1	HOSE BIBB	No. 15LK	3/4"	CHROME PLATED, VACUUM BREAKER LOOSE KEY	
(E)FD	EXISTING FLOOR DRAIN			INSTALL (N) POLISHED BRONZE STRAINER	
FD	FLOOR DRAIN	"J.R. SMITH" 2010	2"	W/ TRAP PRIMER CONNECTION, 6" POLISHED BRONZE STRAINER	
TP	TRAP PRIMER	"PRECISION PLUMBING PRODUCTS" P-2	1/2"		SEE PLUMBING GENL. NOTE 3

NOTES:

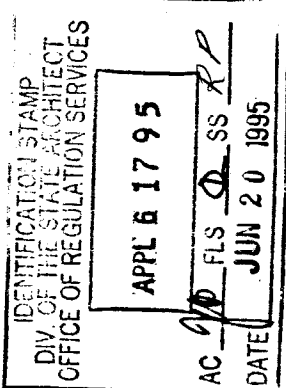
1. SEE THE PLUMBING SPECIFICATIONS FOR THE MANUFACTURERS OF THE MODELS LISTED.
2. SEE THE PLUMBING SPECIFICATIONS FOR FIXTURE STOP AND TRAP TYPES.
3. CONCEAL ALL TRAP PRIMERS AND PRIMER PIPING WITH TRAP PRIMERS ACCESSIBLE AS SHOWN ON THE DRAWINGS.

FIXTURE UNIT AND CONNECTION CHART (6)							
ABBR	FIXTURE	FIXTURE UNITS			FIXTURE CONNECTIONS (1)		
		COLD WATER	HOT WATER	DRAIN & VENT	WATER (2)	DRAINAGE	VENT
WC	WATER CLOSET (FV)	10	-	6	1 (5)	4	2
UR	URINAL (FV)	5	-	2	3/4 (5)	2	1-1/2
L	LAVATORY (SINGLE)	2	2	1	1/2	1-1/2	1-1/2
DF	DRINKING FOUNTAIN	2	-	1	1/2	1-1/2	1-1/4
HB	HOSE BIBB	5	-	-	3/4	-	-

- (1) FIXTURE CONNECTIONS LISTED ARE NOMINAL PIPE SIZE - INCHES.
- (2) SIZE TO "DROP EAR" ELBOW OR SIMILAR FITTING.
- (3) NOT USED
- (4) NOT USED
- (5) INCREASE ONE PIPE SIZE IF TOTAL DEVELOPED LENGTH EXCEEDS 12'.

- (6) THIS SCHEDULE SHALL BE USED TO SIZE BRANCH PIPING NOT SHOWN ON DRAWINGS.

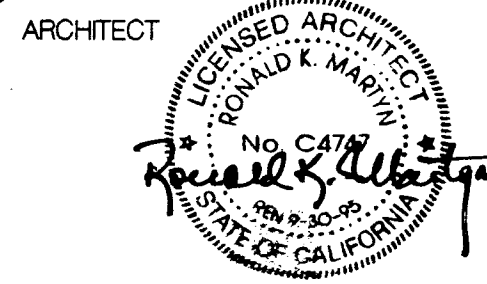
APPROVALS



CONSULTANT



MODERNIZATION AT
**HIGHLAND
ELEMENTARY SCHOOL**
FOR THE HAYWARD UNIFIED SCHOOL DISTRICT



NOTE:
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SHEET TITLE

**MECHANICAL &
PLUMBING
SCHEDULES**

DATE

6/16/95

FILE NO.

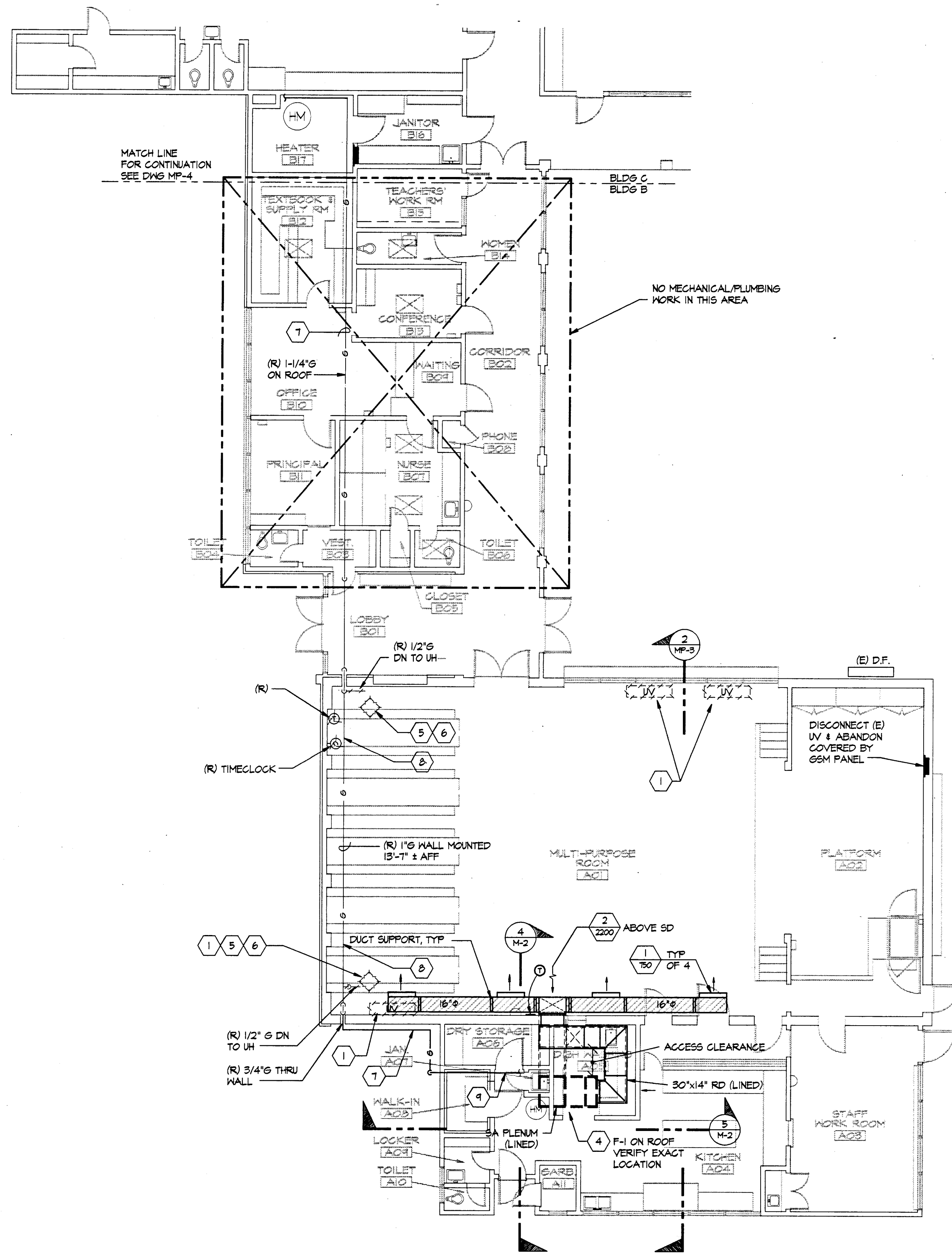
77-15-3

DRAWING NUMBER

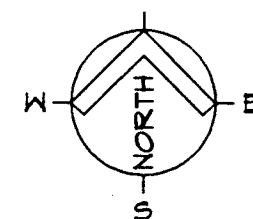
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MP-2

SHEET 17 OF 30

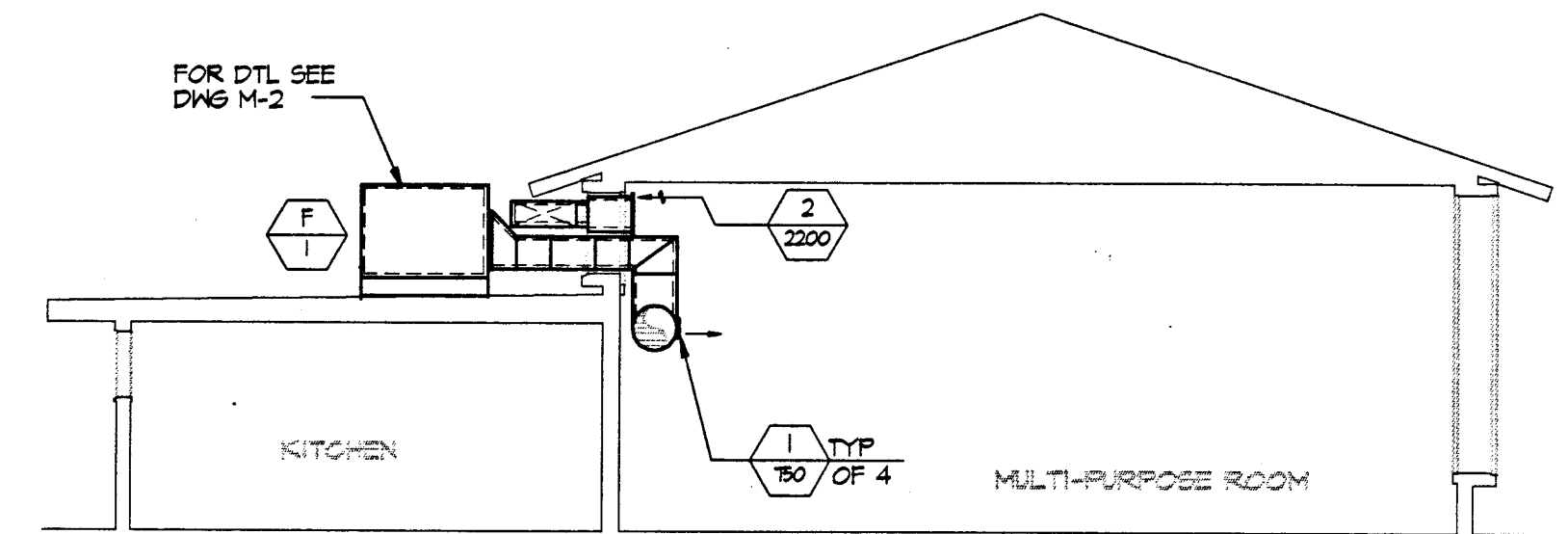


1 FLOOR PLAN - BUILDINGS A & B
MP-3 SCALE: 1/8" = 1'-0"

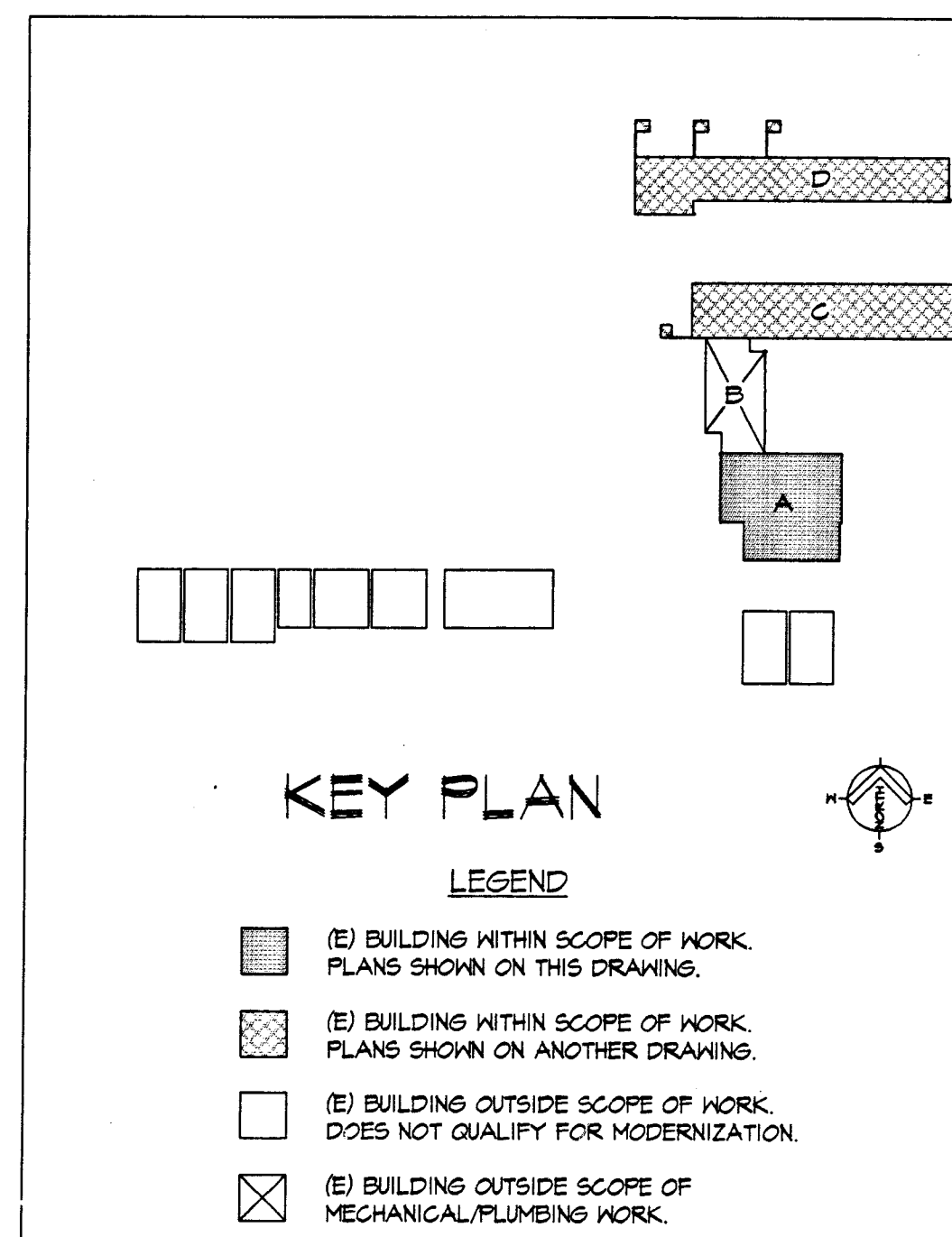


SHEET NOTES:

- 1 (R) UNIT VENTILATOR, HEATING HOT WATER PIPING, ELEC WIRING BLD DUCT & PATCH.
- 2 NOT USED.
- 3 NOT USED.
- 4 (N) FURNACE MOUNTED ON STAND ABOVE ROOF.
- 5 (R) UH SUSPENDED FROM CEILING INCLUDING UNIT SUPPORTS, ELECTRICAL WIRING CONDUITS & THERMOSTAT CONTROL SYSTEMS.
- 6 (R) 4" FLUE ENTIRELY FROM (R) UH TO OUTLET ABOVE ROOF.
- 7 PROVIDE (N) 1 1/2" G WITH (N) PIPE CLAMPS ATTACHED TO (E) ROOF SLEEPER AND (N) ROOF SLEEPERS AS REQUIRED.
- 8 PROVIDE (N) 1 1/2" G WITH (N) HALL SUPPORTS SEE DWG P-1.
- 9 PROVIDE (N) 1 1/2" G TO (N) F-1 WITH (N) PIPE CLAMPS ATTACHED TO (E) ROOF SLEEPERS AND (N) ROOF SLEEPERS AS REQUIRED.



2 MECHANICAL & PLUMBING
NEW WORK SECTION @ BLDG A
MP-3 SCALE: 1/8" = 1'-0"



CONSULTANT
American Consulting Engineers, Inc.
2000 De La Cruz Blvd., Suite 101
San Jose, CA 95128-3300
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Fax: 408/986-9179
JOB # 94638

MODERNIZATION AT
HIGHLAND ELEMENTARY SCHOOL
FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

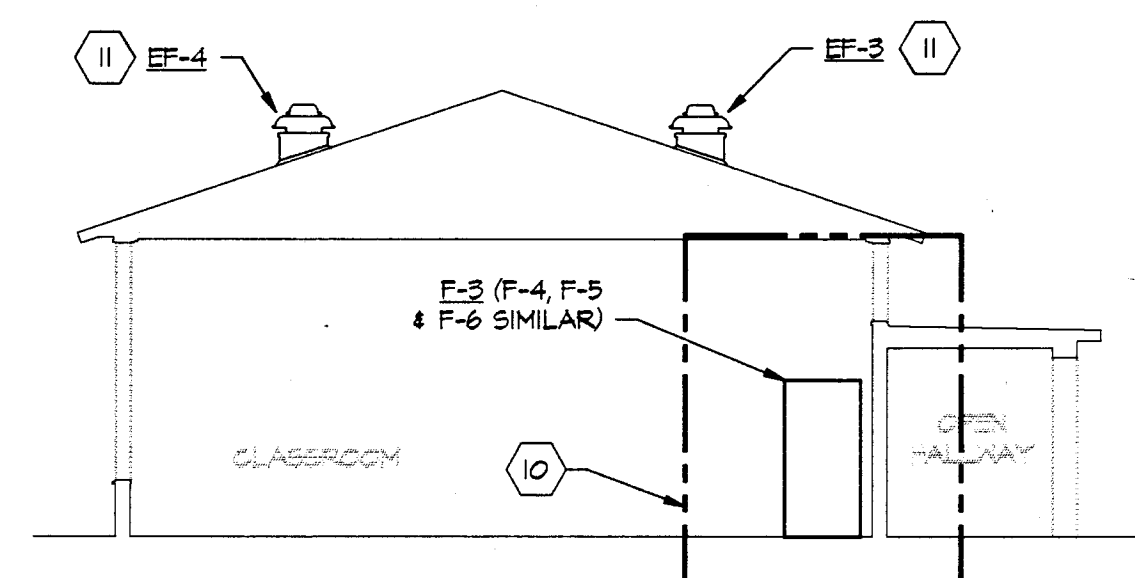
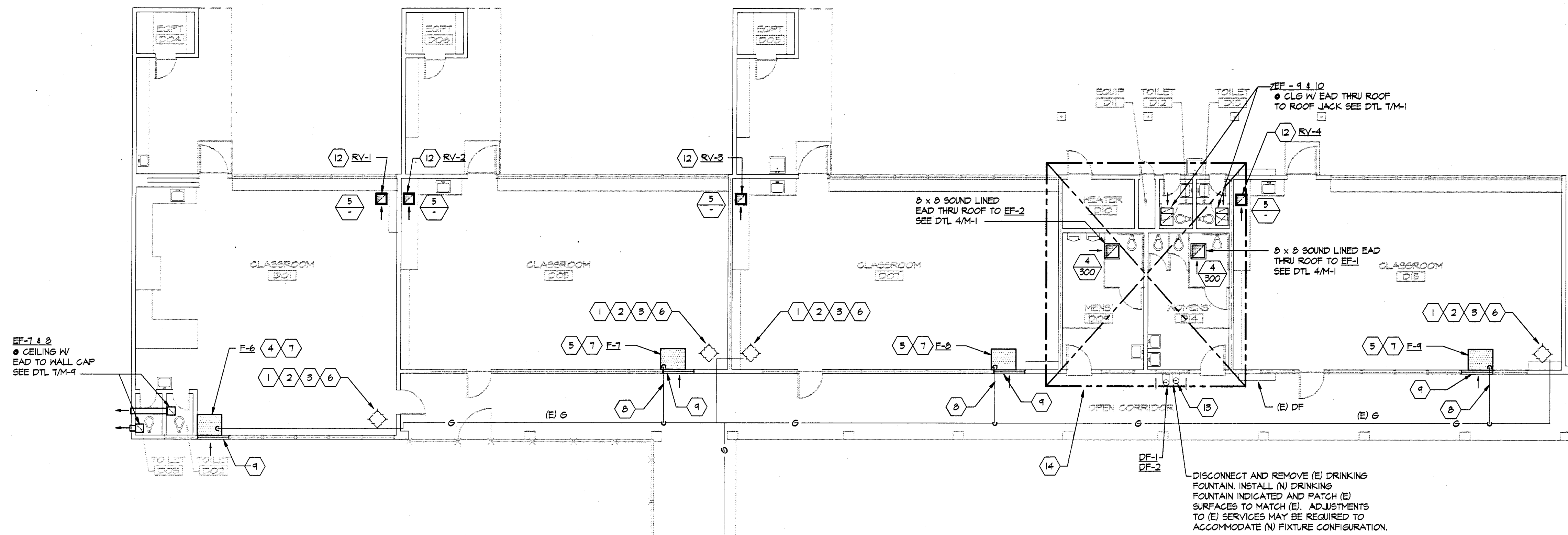
ARCHITECT
Associated Architects
No. C471
State of California

NOTE
THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AT THE JOB AND SHALL BE RESPONSIBLE FOR ALL DISCREPANCIES BETWEEN DIMENSIONS OF THE ACTUAL WORK AND THOSE SHOWN IN THE DOCUMENTS OF ARCHITECT'S APPROVED SHOP DRAWINGS. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR ALL QUANTITIES OF MATERIAL OR EQUIPMENT CALLED FOR TO PROPERLY COMPLETE THE WORK.

SHEET TITLE
MECHANICAL & PLUMBING DEMOLITION & NEW WORK FLOOR PLAN BLDGS. A & B

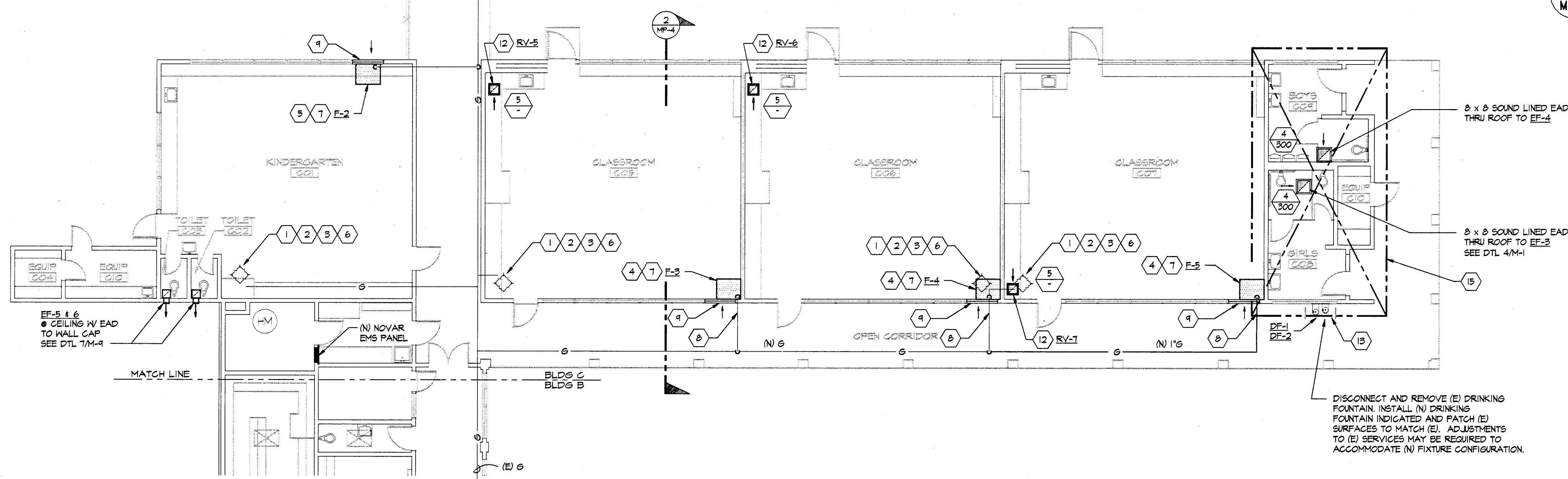
DATE 6/16/95	DRAWING NUMBER 15
FILE NO. 77-15-3	MP-3
SHEET 18 OF 30	

ASSOCIATED ARCHITECTS - 494 HAWTHORNE AVENUE - OAKLAND, CALIFORNIA 94609 - (510) 428-9448



**MECHANICAL & PLUMBING
NEW WORK SECTION @ BLDG C**

MP-4 SCALE: 1/8" = 1'-0"

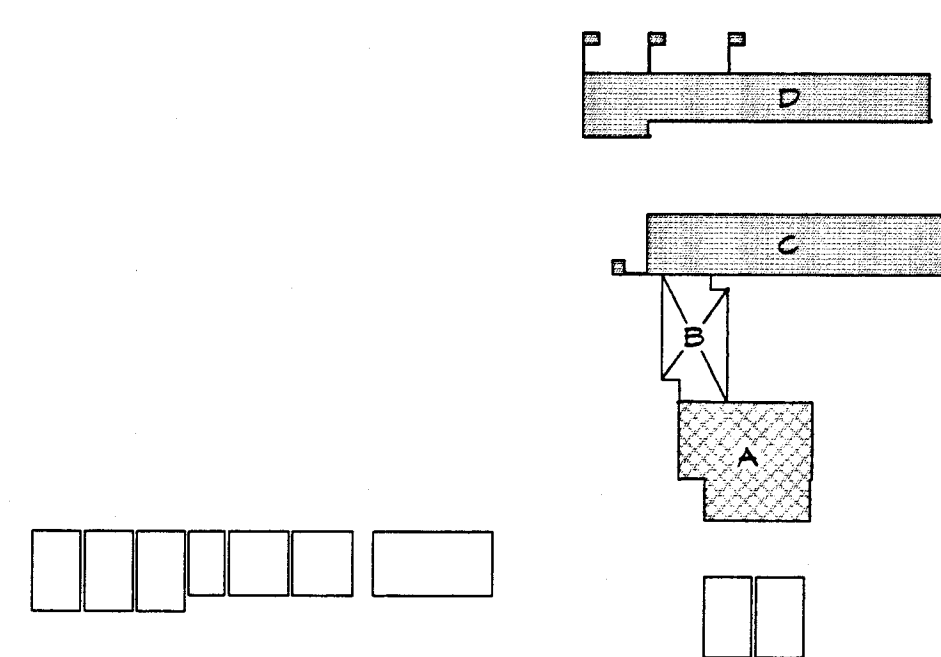


FLOOR PLAN - BUILDINGS C & D

MP-4 SCALE: 1/8" = 1'-0"

SHEET NOTES:

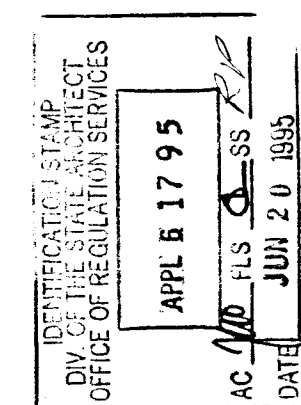
- (R) UH SUSPENDED FROM CEILING INCLUDING UNIT SUPPORTS, ELECTRICAL WIRING CONDUITS & THERMOSTAT CONTROL SYSTEMS.
- (R) 4" FLUE ENTIRELY FROM (R) UH TO OUTLET ABOVE ROOF.
- (R) 3/4" PIPING, VALVES & AUXILIARIES CONNECTED TO (R) UH.
- (N) FURNACE IN FLOOR MOUNTED ENCLOSURE WITH SA & RA GRILLES, COMBUSTION AIR & OA INTAKES & FLUE THRU ROOF, (SEE 1/M-1).
- (N) FURNACE IN FLOOR MOUNTED ENCLOSURE WITH SA & RA GRILLES, COMBUSTION AIR & OA INTAKES & FLUE THRU ROOF, (SEE 2/M-1).
- BLO (E) FLUE OPENING IN ROOF & PATCH TO MATCH FINISHED ROOF.
- (N) 3" FLUE FROM (N) FURNACE UP THRU ROOF.
- (N) 6" DN AND THRU LOUVER.
- (N) 48" x 32" LOUVER - SEE ARCH DWS.
- FOR (N) FURNACE & ENCLOSURE INSTALLATION, SEE DTL 5/M-1 & 5/M-1.
- FOR EF INSTALLATION SEE 4/M-1.
- (N) 14 x 14 SOUND LINED RELIEF DUCT TO ROOF VENT (RV), SEE DTL 4/M-4 SIMILAR.
- (R) DF, CH, S, V & WALL SUPPORT FOR (N) INSTALLATION.
- FOR PLUMBING PLAN SEE 1/P-1.
- FOR PLUMBING PLAN SEE 2/P-1.



KEY PLAN

- LEGEND**
- (E) BUILDING WITHIN SCOPE OF WORK. PLANS SHOWN ON THIS DRAWING.
 - (N) BUILDING WITHIN SCOPE OF WORK. PLANS SHOWN ON ANOTHER DRAWING.
 - (O) BUILDING OUTSIDE SCOPE OF WORK. DOES NOT QUALIFY FOR MODERNIZATION.
 - (X) BUILDING OUTSIDE SCOPE OF MECHANICAL/PLUMBING WORK.

APPROVALS



CONSULTANT



MODERNIZATION AT
**HIGHLAND
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FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

ARCHITECT



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SHEET TITLE

**MECHANICAL &
PLUMBING DEMOLITION
& NEW WORK FLOOR
PLAN BLDGS C & D**

DATE

6/16/95

DRAWING NUMBER

15

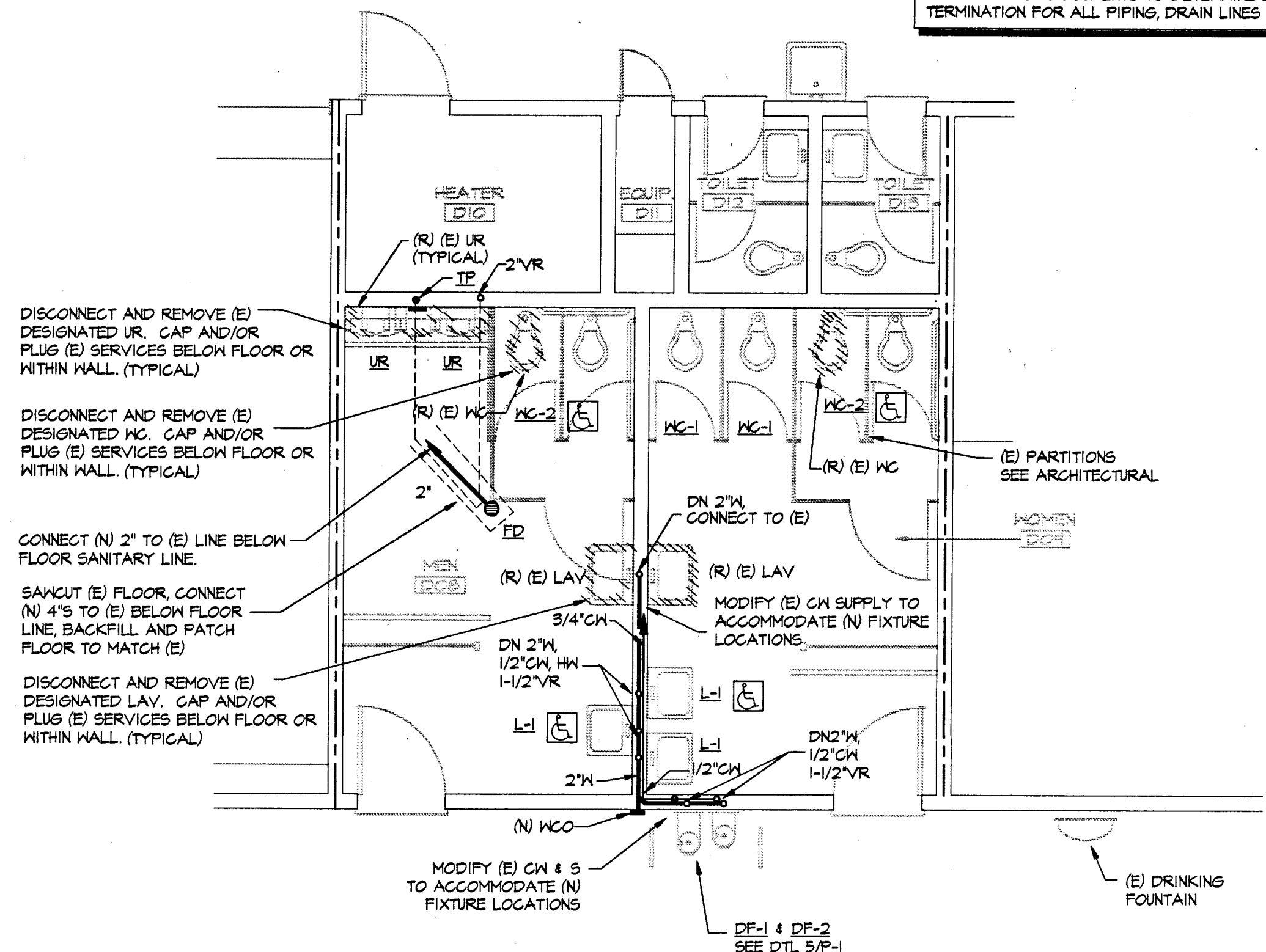
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77-15-3

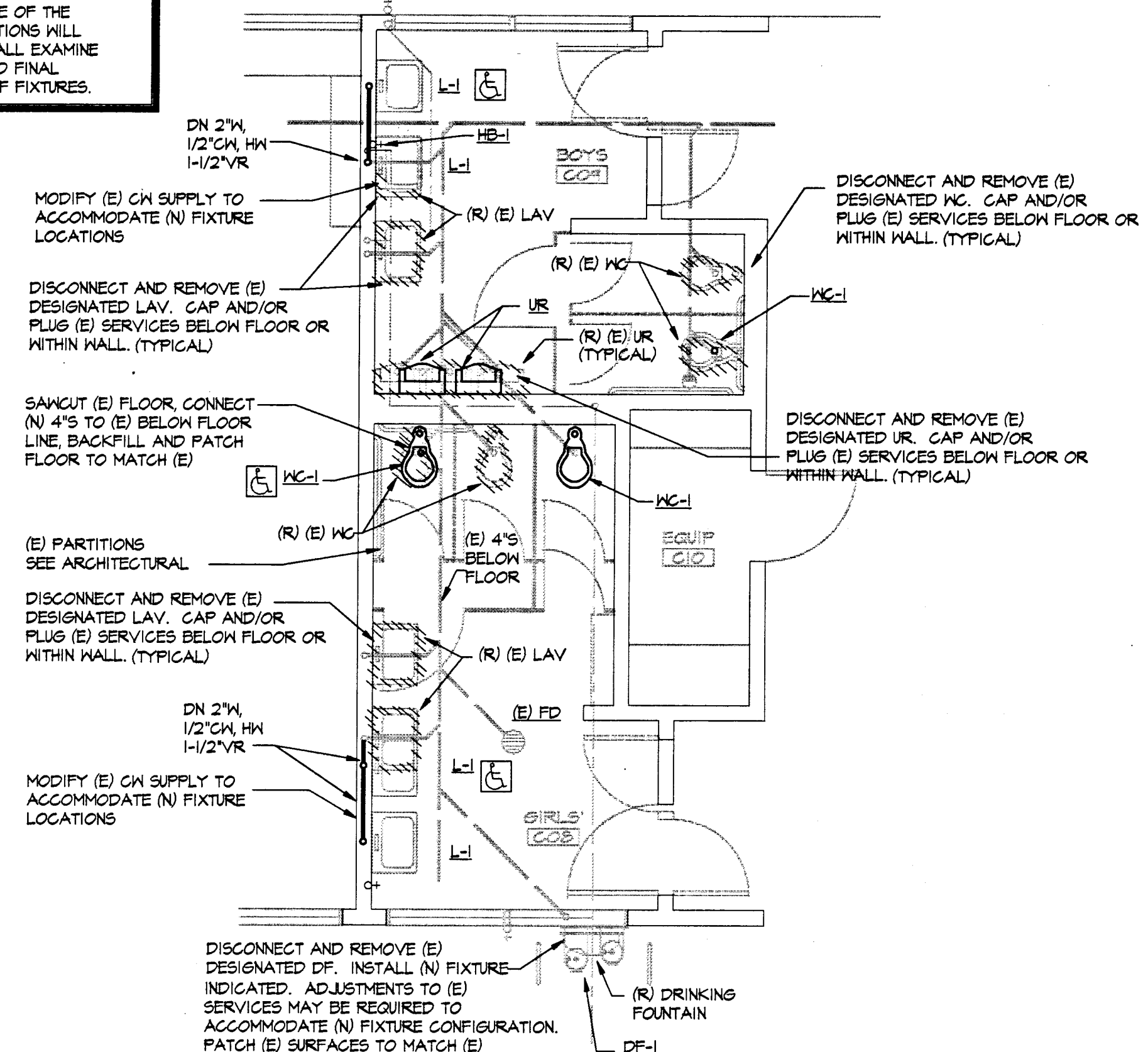
MP-4

SHEET 19 OF 30

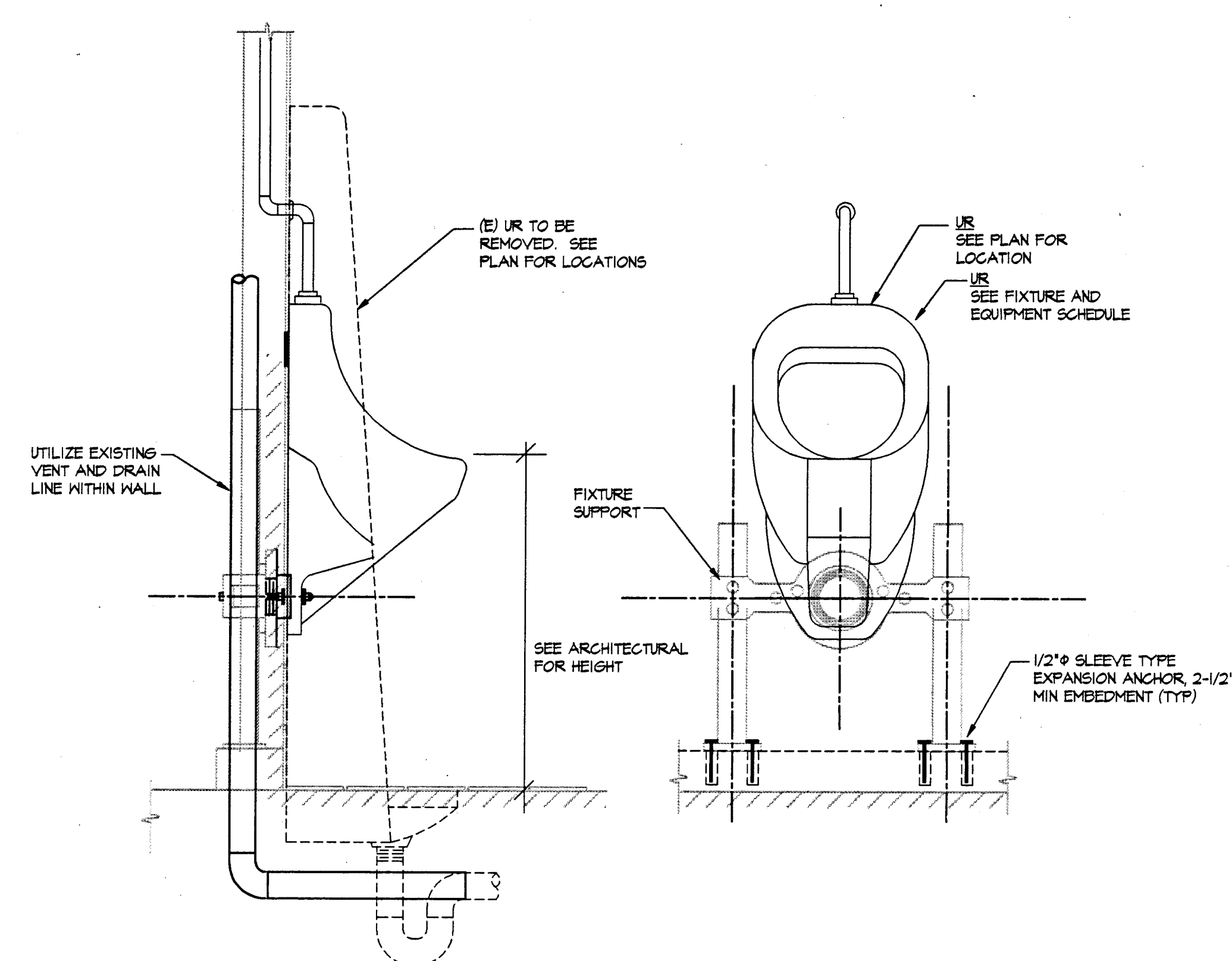
THE GENERAL ARRANGEMENT OF EXISTING PIPING, DRAIN LINES, FIXTURES, ETC., IS BASED UPON DATA FROM AS-BUILT DRAWINGS AVAILABLE AT THE TIME OF DRAWING PREPARATION. MODIFICATIONS TO EXISTING SYSTEMS MAY BE REQUIRED TO ACCOMMODATE NEW SYSTEM CONFIGURATIONS AND SHALL BE MADE BY CONTRACTOR WITHOUT EXTRA EXPENSE TO OWNER. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR AND EXACT LOCATIONS, DISTANCES AND ELEVATIONS WILL BE GOVERNED BY ACTUAL CONDITIONS. THE CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS TO DETERMINE EXACT ROUTING AND FINAL TERMINATION FOR ALL PIPING, DRAIN LINES AND PLACEMENT OF FIXTURES.



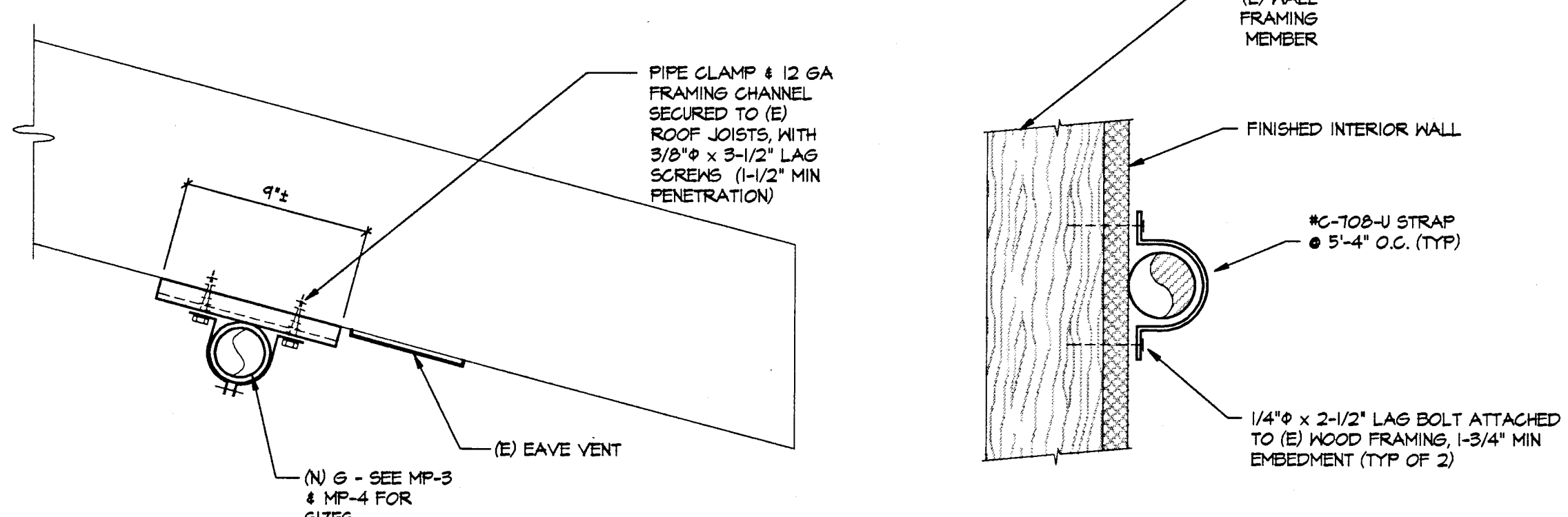
**BUILDING D
DETAIL FLOOR PLAN - FACULTY TOILET ROOMS**
SCALE: 1/4" = 1'-0"



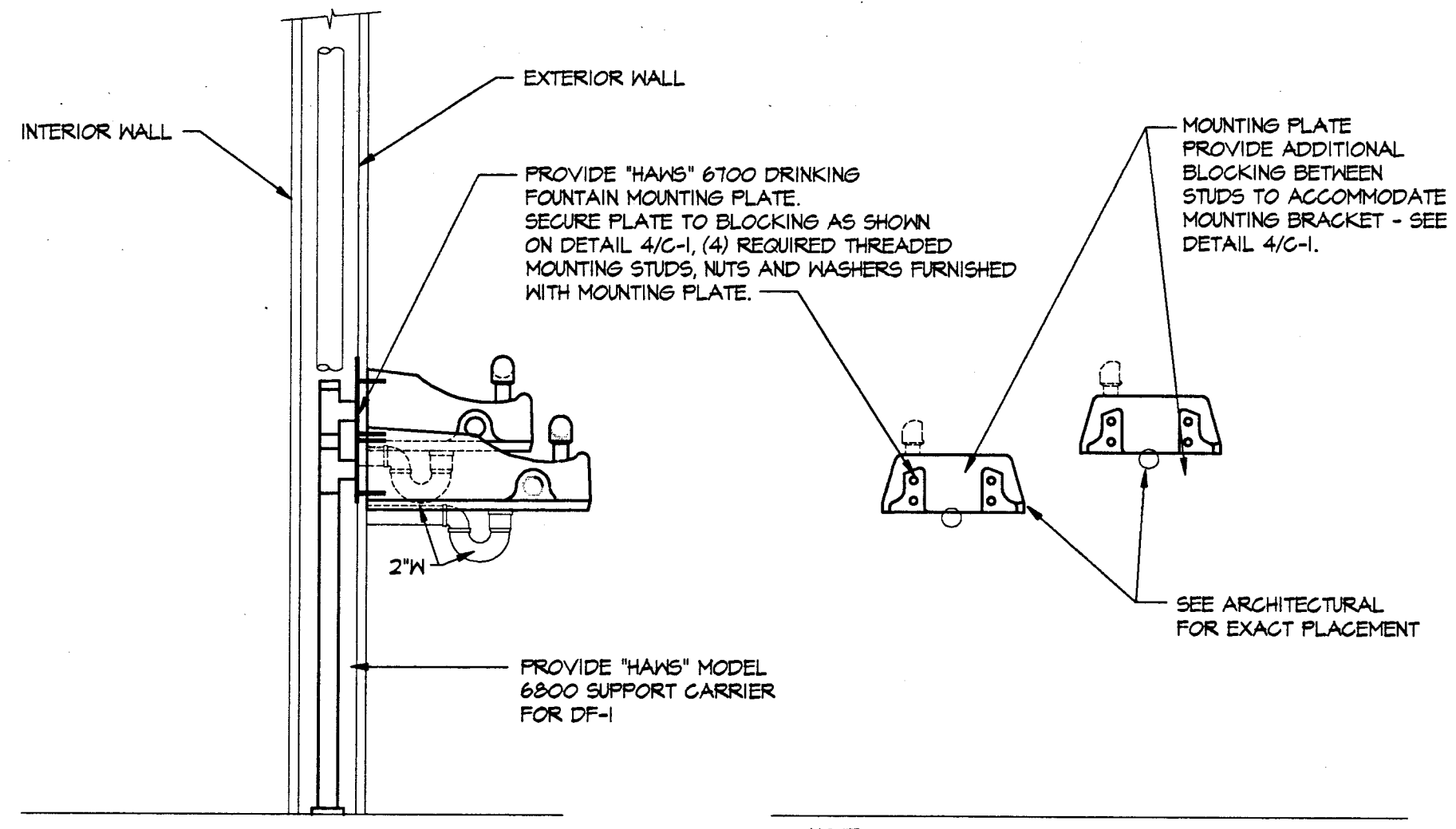
**BUILDING C
DETAIL FLOOR PLAN - STUDENT TOILET ROOMS**
SCALE: 1/4" = 1'-0"



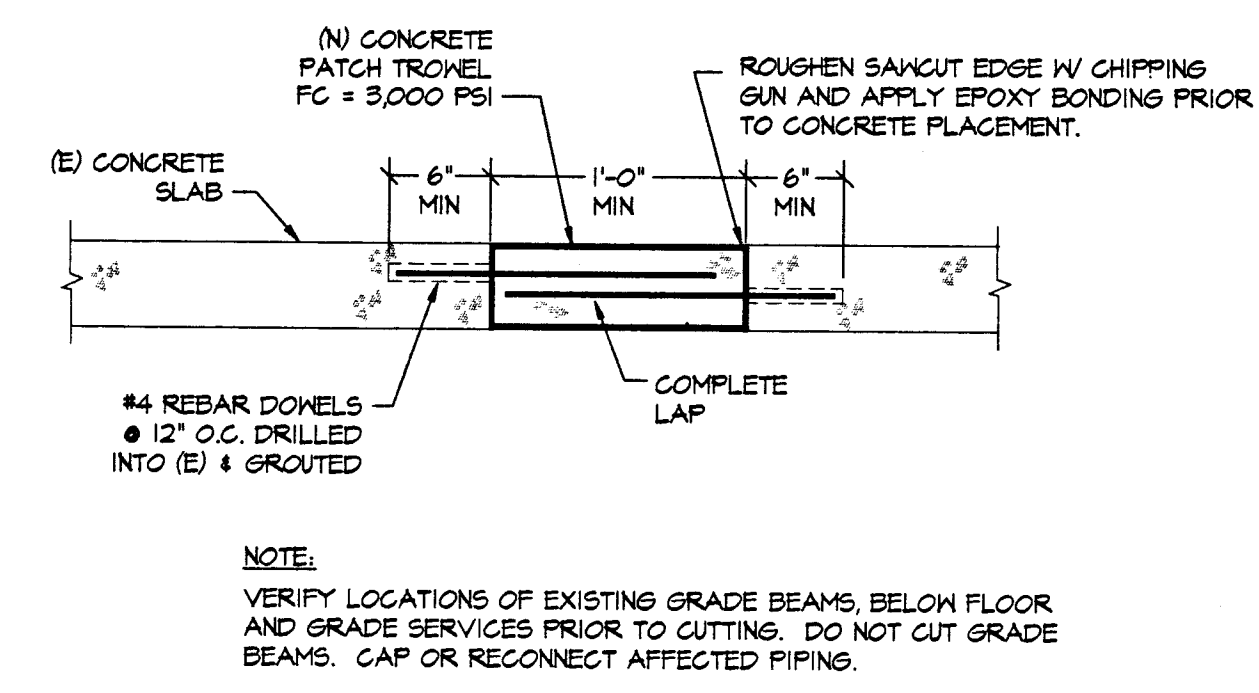
3 URINAL INSTALLATION DETAIL
NOT TO SCALE



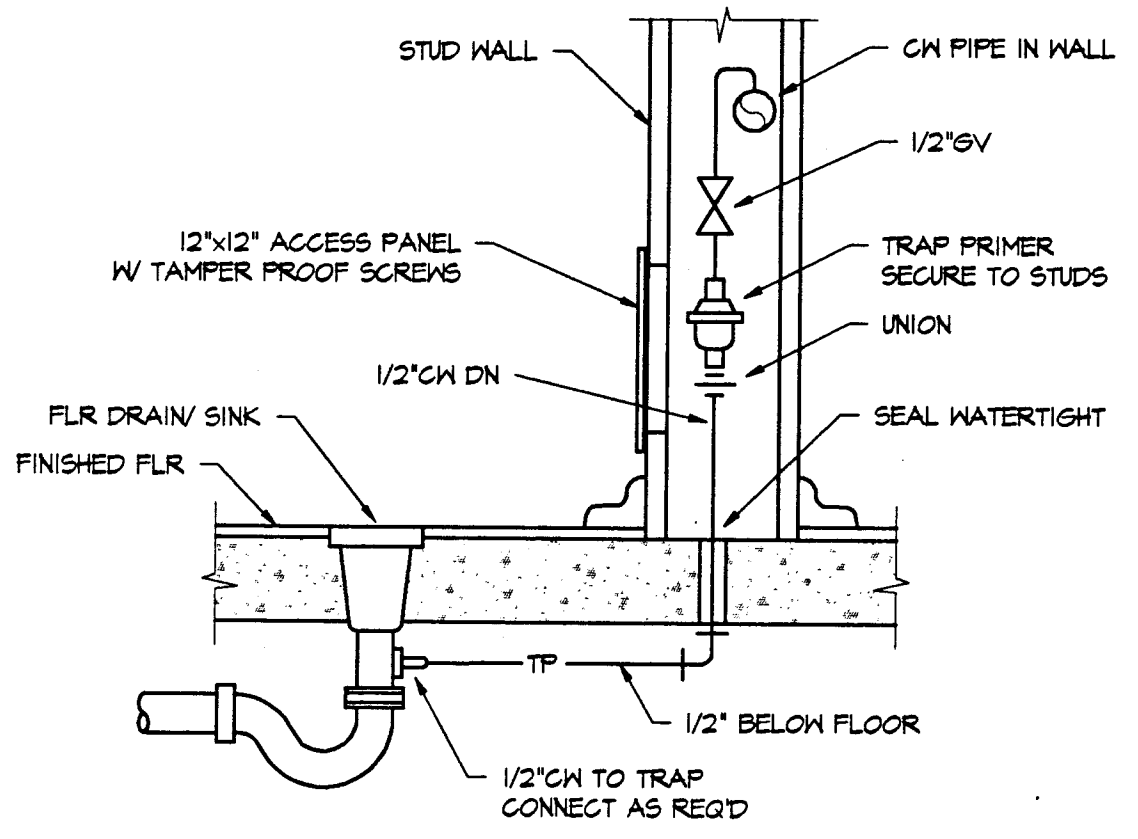
4 GAS PIPE SUPPORT DETAILS
NOT TO SCALE



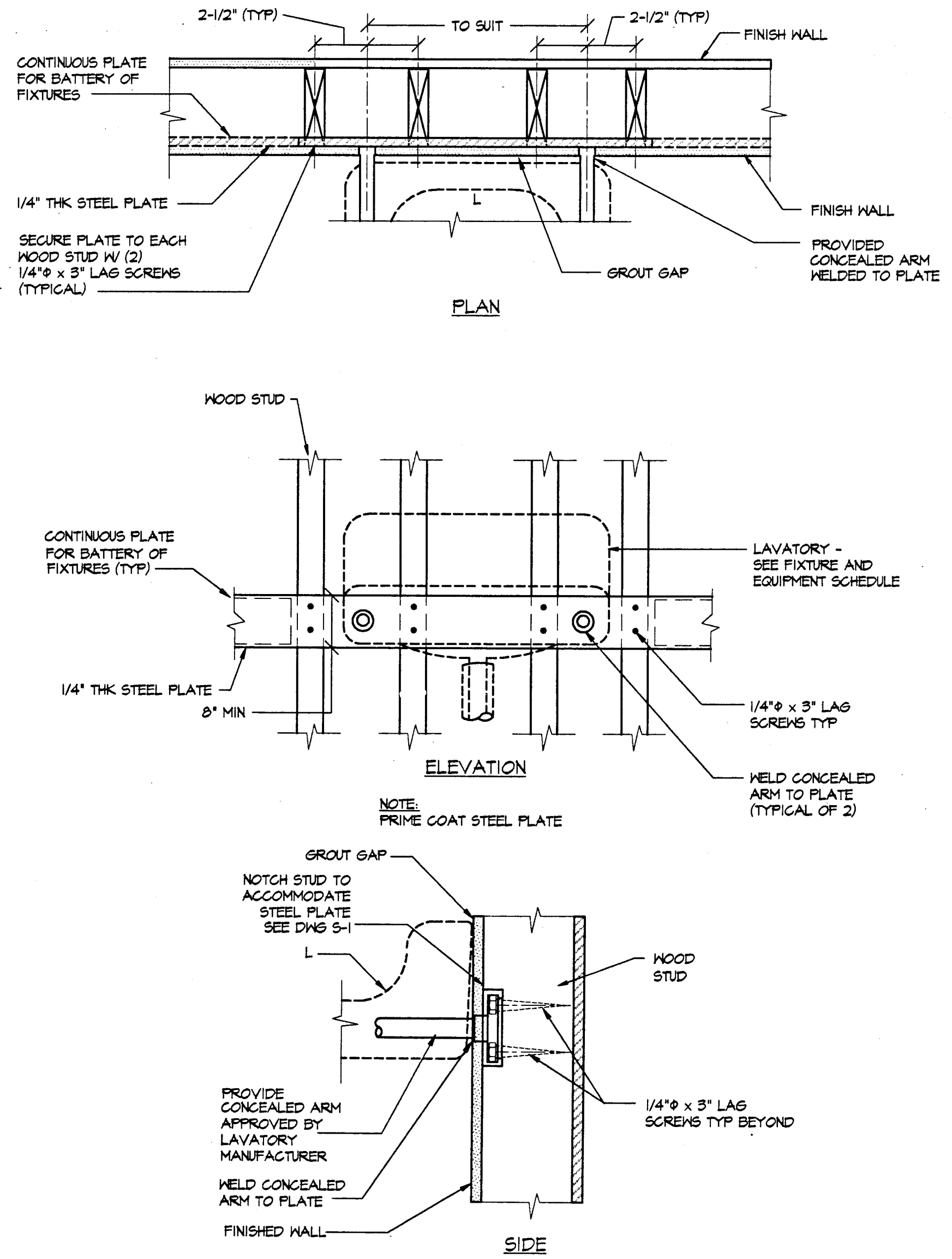
5 DRINKING FOUNTAIN MOUNTING DETAIL
NOT TO SCALE



6 SAW CUT REPAIR DETAIL
NOT TO SCALE



7 TRAP PRIMER DETAIL
NOT TO SCALE



8 LAVATORY MOUNTING DETAIL
NOT TO SCALE

APPROVALS

CONSULTANT

American Consulting Engineers, Inc.
2005 De La Cruz Blvd., Suite 151
Santa Clara, CA 95050-3000
Ph: 408/766-3388
Fax: 408/766-9129
JOB # 94638

REGISTERED PROFESSIONAL ENGINEER
J. MICHAEL
No. M 013897
12/99
MECHANICAL
STATE OF CALIFORNIA

MODERNIZATION AT
**HIGHLAND
ELEMENTARY SCHOOL**
FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

ARCHITECT

NOTED ARCHITECT
No. C 4742
Randy L. Winters
STATE OF CALIFORNIA

NOTE:
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SHEET TITLE

**PLUMBING
PARTIAL PLANS
AND DETAILS**

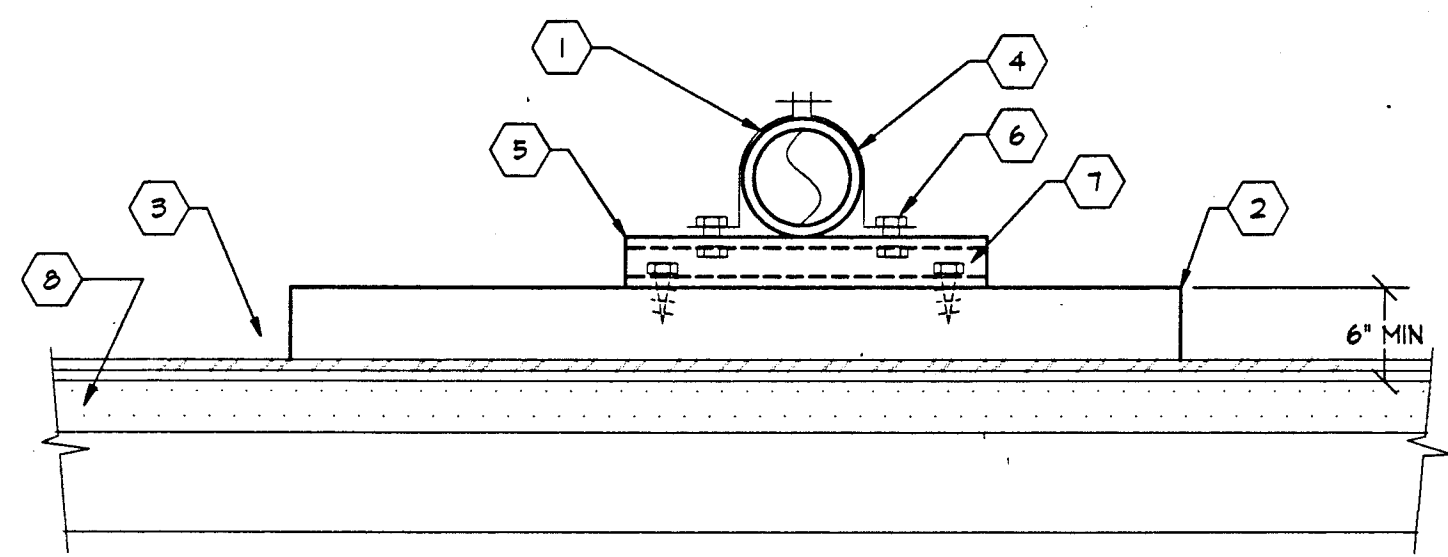
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6/16/95

DRAWING NUMBER
15

FILE NO.
77-15-3

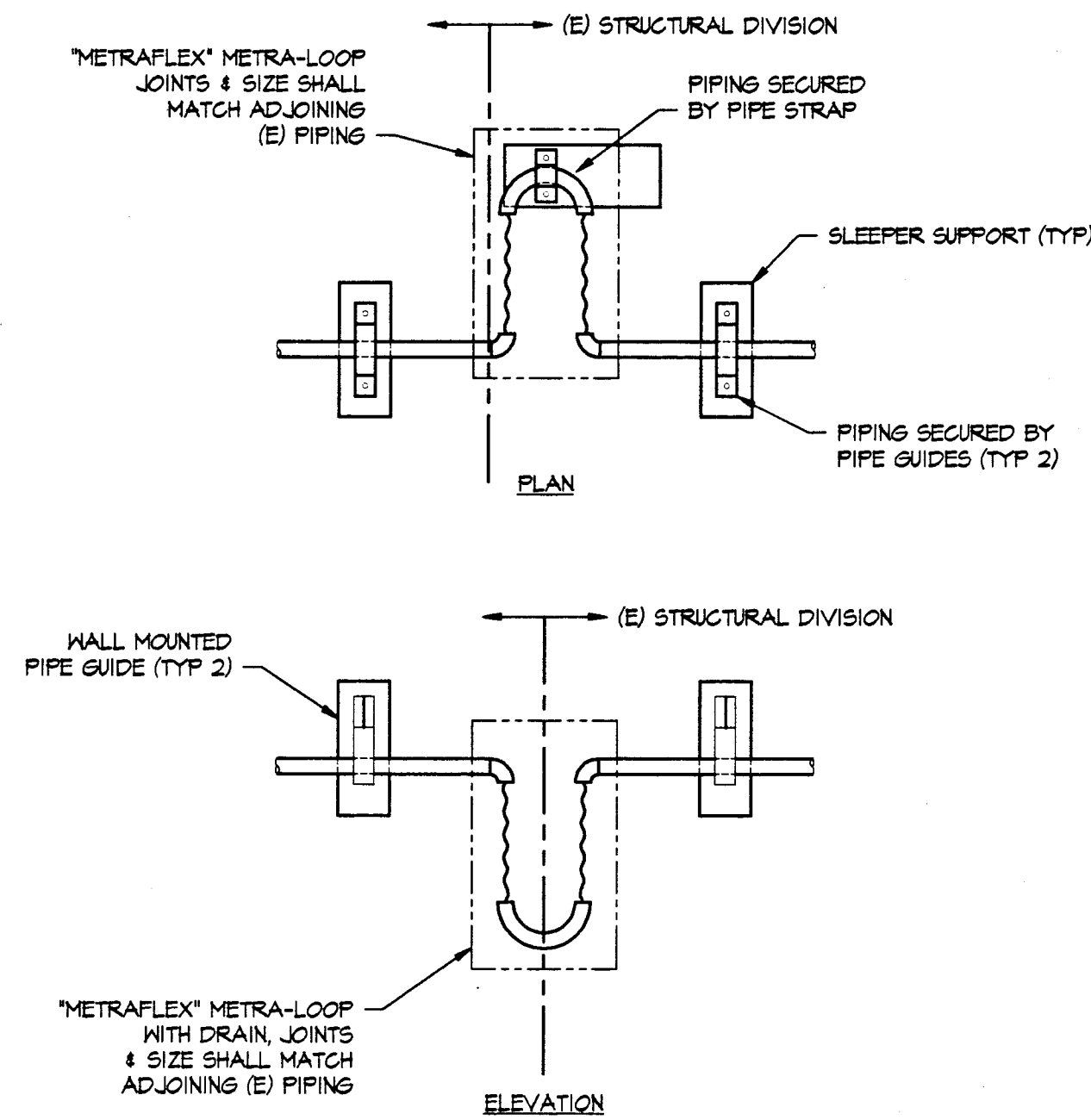
P-1

SHEET 20 OF 30



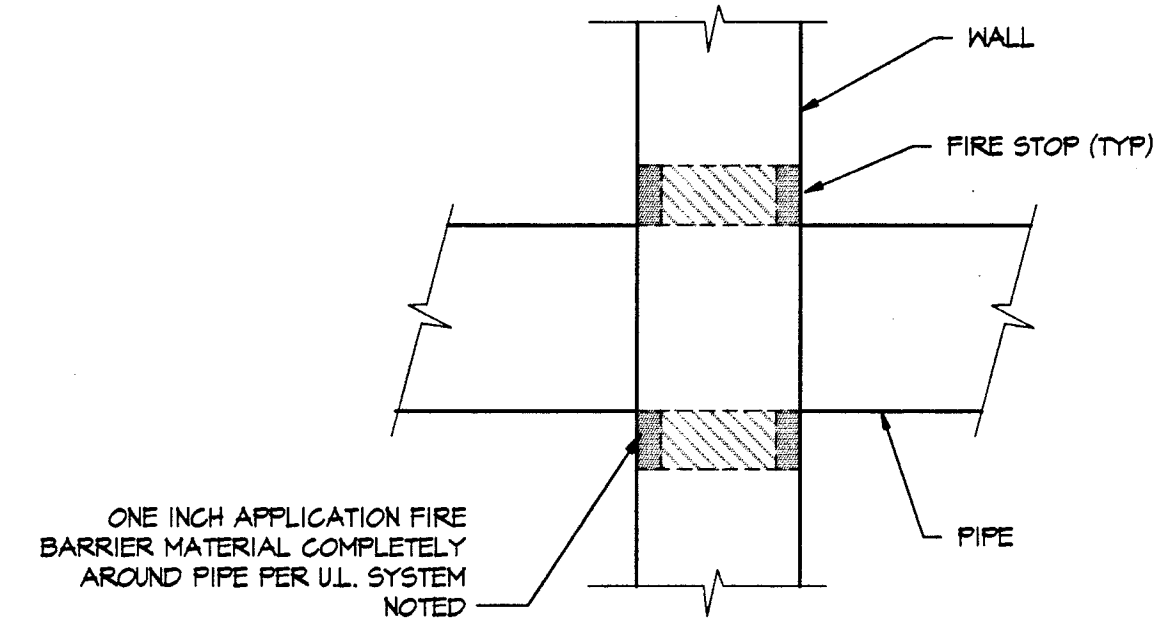
- (1) & (N) G PIPING - SEE MECHPLEG DWGS. FOR SIZES & ROUTING
- (2) REDWOOD SLEEPER 4" x 4" LENGTH TO SUIT. THICKNESS OF SLEEPER SHALL ALLOW FOR CONTINUITY OF PIPE LEVEL.
- (3) CLEAN OFF AREA, INSTALL PIPE SUPPORT SLEEPER AS RECOMMENDED BY APPROVED FOAM ROOFING MANUFACTURER
- (4) SUPERSTRUT TOI CLAMP
- (5) SUPERSTRUT BP-1400 GALV. CHANNEL
- (6) 1/4" GALV NUTS, WASHERS & BOLTS
- (7) 3/8" x 5" LONG GALV LAG BOLT THRU INTO SLEEPER
- (8) FOAM ROOF

1 **ROOF SLEEPER PIPE SUPPORT**
P-2 NOT TO SCALE



NOTE:
A FLEX CONNECTION AND SHUT-OFF VALVE SHALL BE PROVIDED BETWEEN STRUCTURES. VERIFY ALL LOCATIONS PRIOR TO START OF WORK.

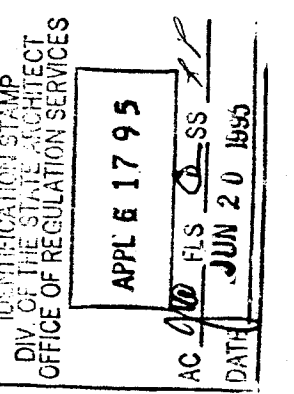
2 **FLEXIBLE GAS PIPING CONNECTION**
P-2 NOT TO SCALE



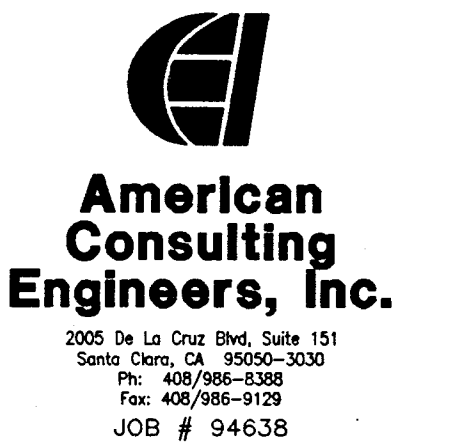
NOTE:
INSTALL PER U.L. FIRE RESISTANCE DIRECTORY SYSTEM #147.

3 **PIPE FRAME WALL PENETRATION**
P-2 NOT TO SCALE

APPROVALS

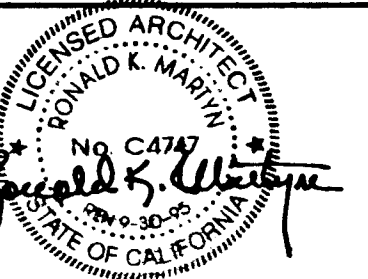


CONSULTANT



MODERNIZATION AT
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FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

ARCHITECT



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SHEET TITLE

**PLUMBING
DETAILS**

DATE

6/16/95

DRAWING NUMBER

15

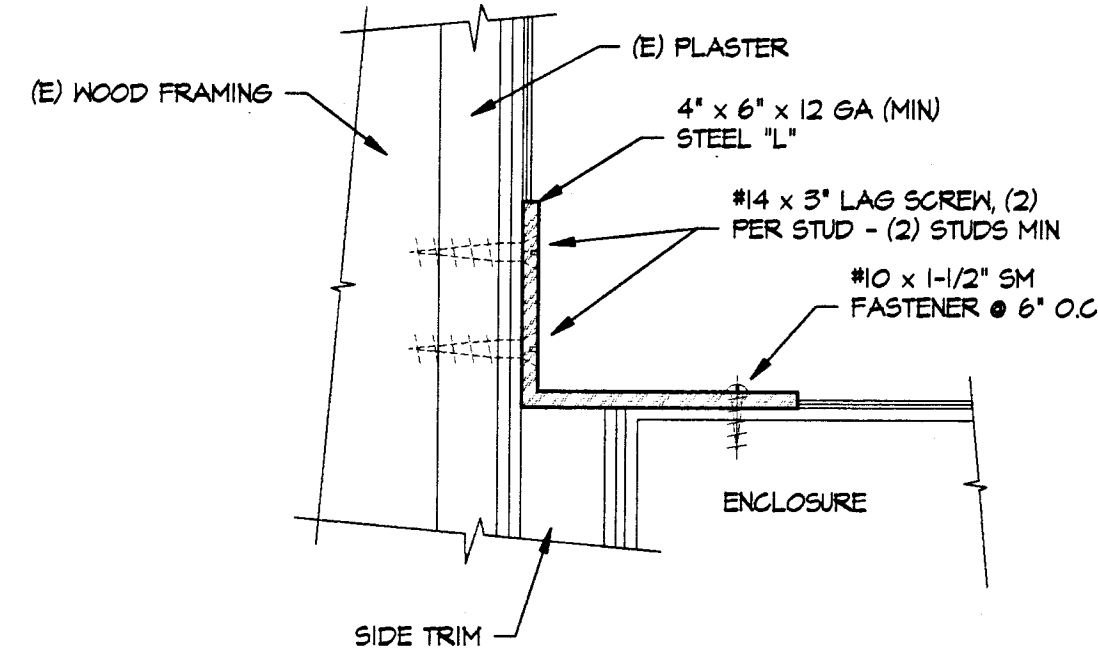
FILE NO.

TT-15-3

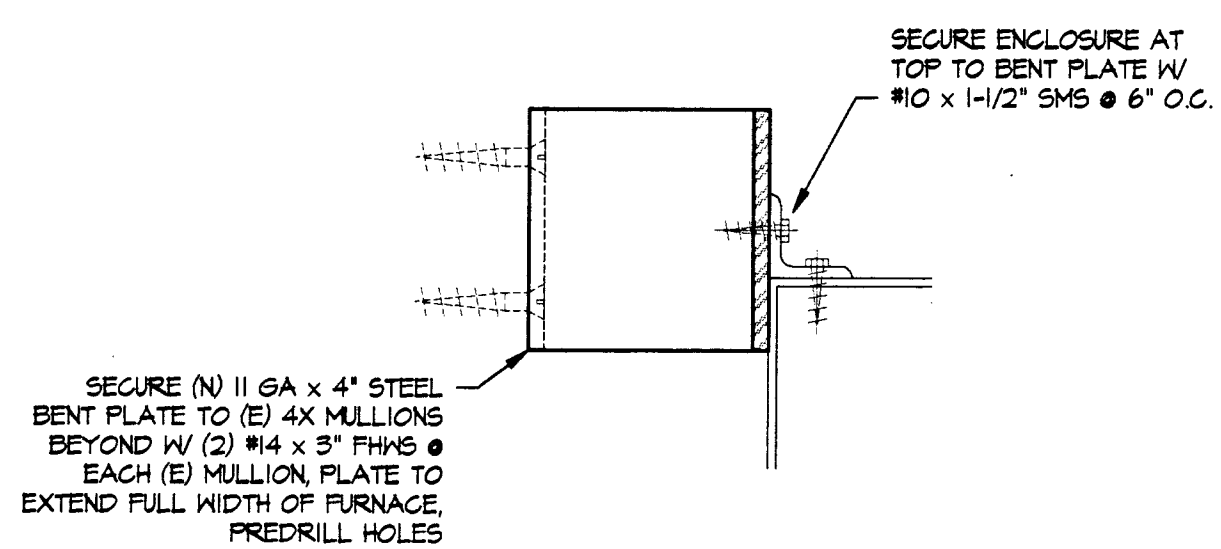
P-2

SHEET 21 OF 30

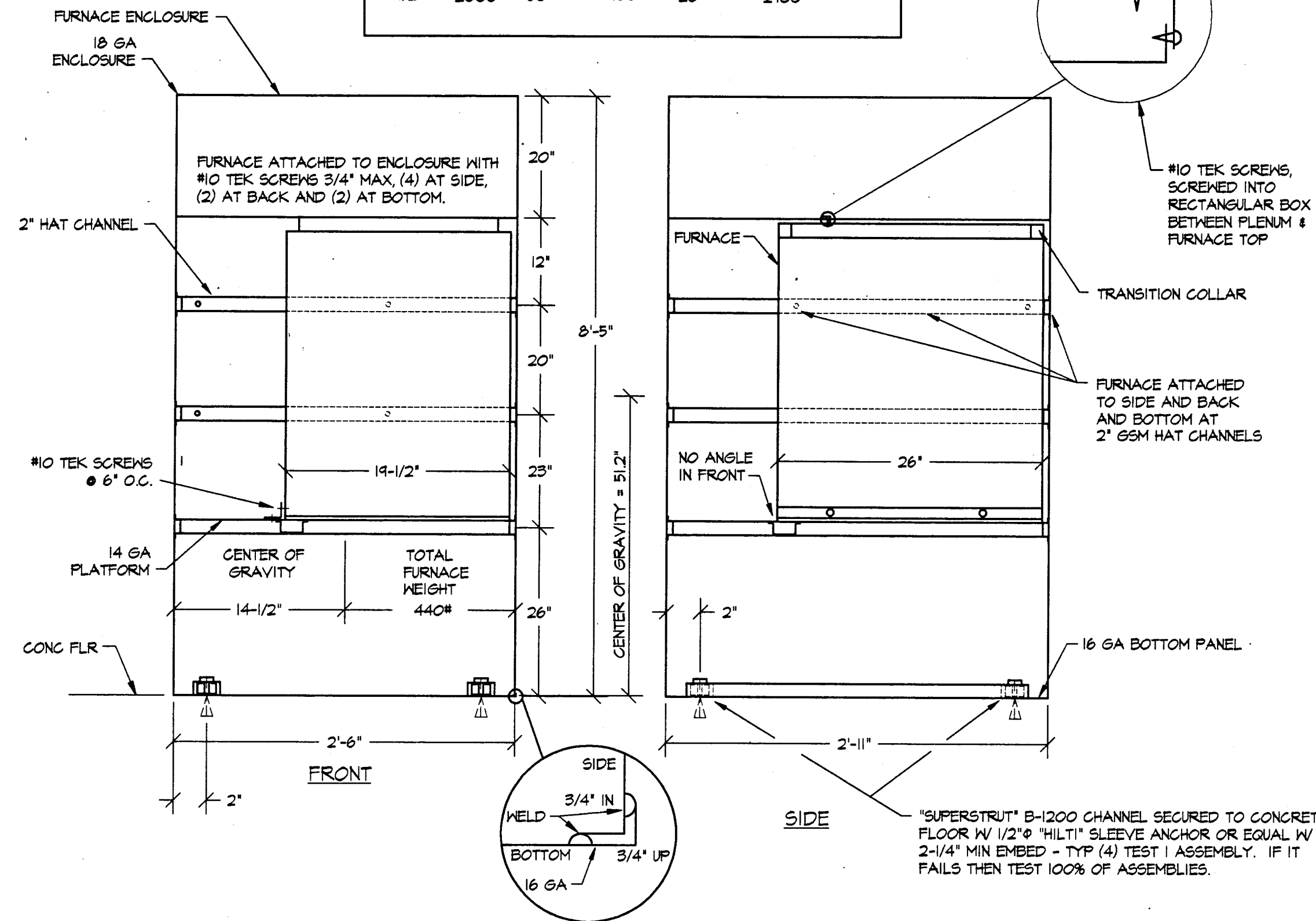
TEST VALUES					
HARD ROCK OR LIGHTWEIGHT CONCRETE					
ANCHOR	WEDGE	SLEEVE		SHELL	
DIA	LOAD	TORQUE	LOAD	TORQUE	LOAD
(IN)	(LBS)	(FT LBS)	(LBS)	(FT LBS)	(LBS)
1/2	2000	50	900	20	2100



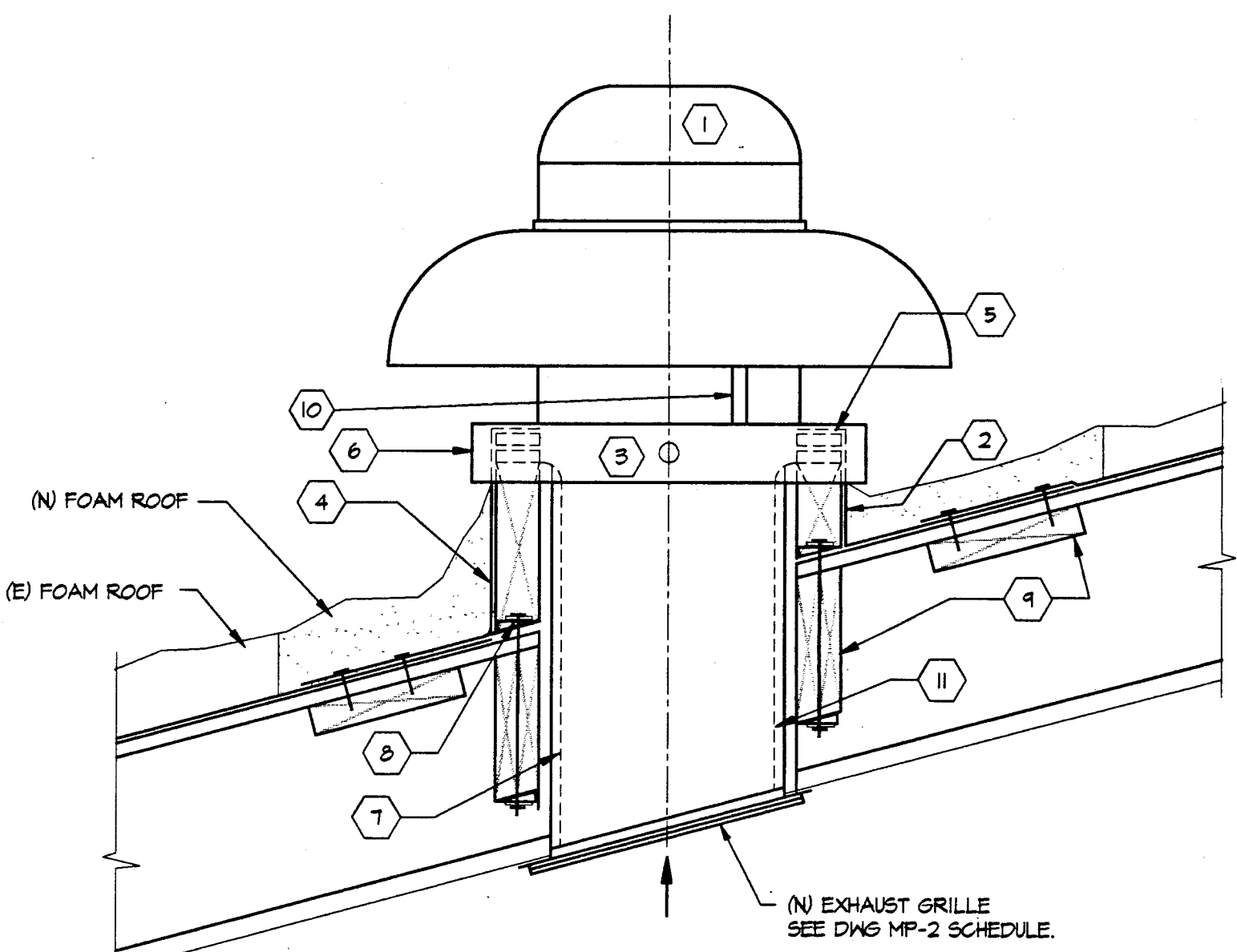
SECTION A
SCALE: 3\"/>



SECTION A
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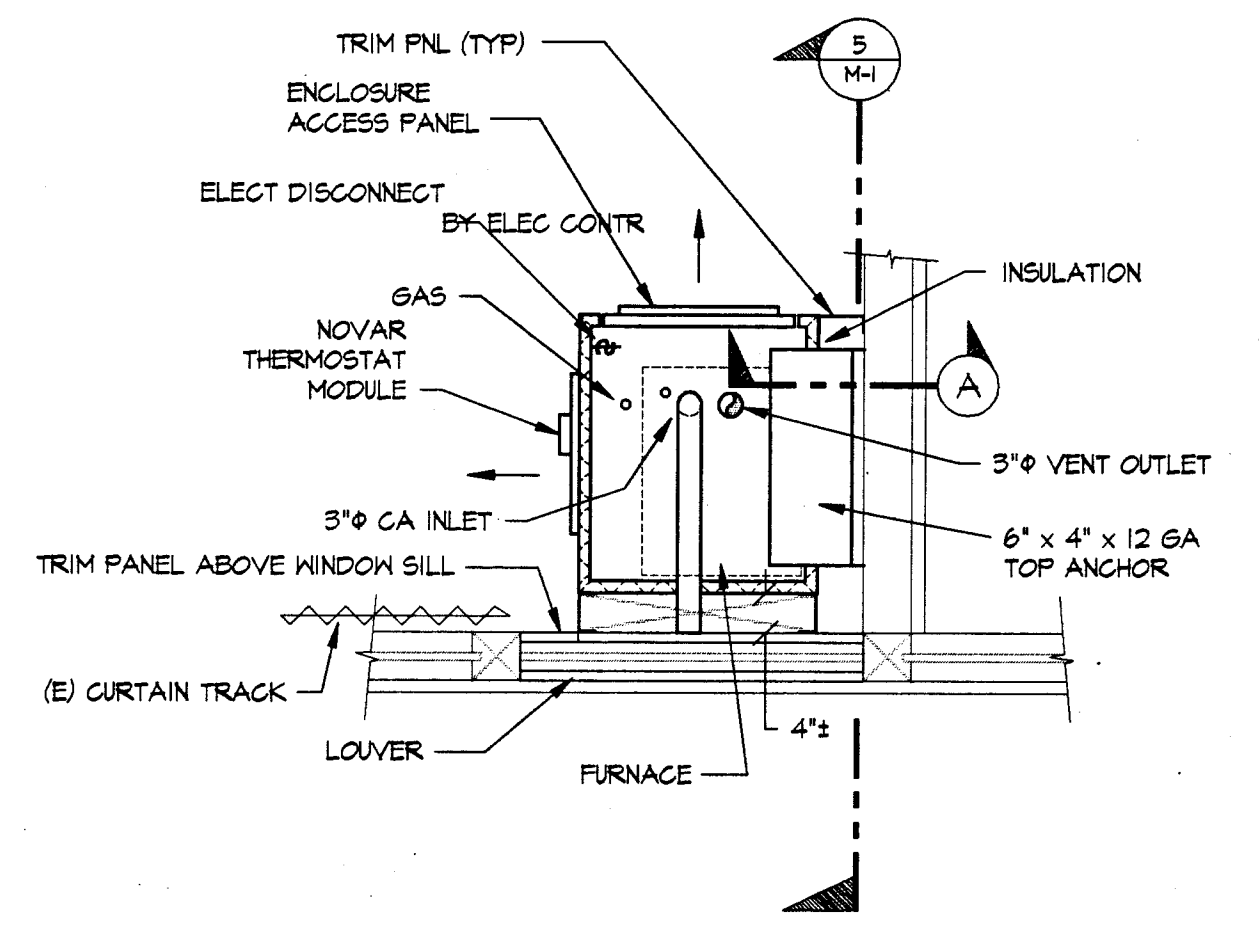


3 FURNACE & ENCLOSURE TIE-DOWN DETAIL
M-1 NOT TO SCALE

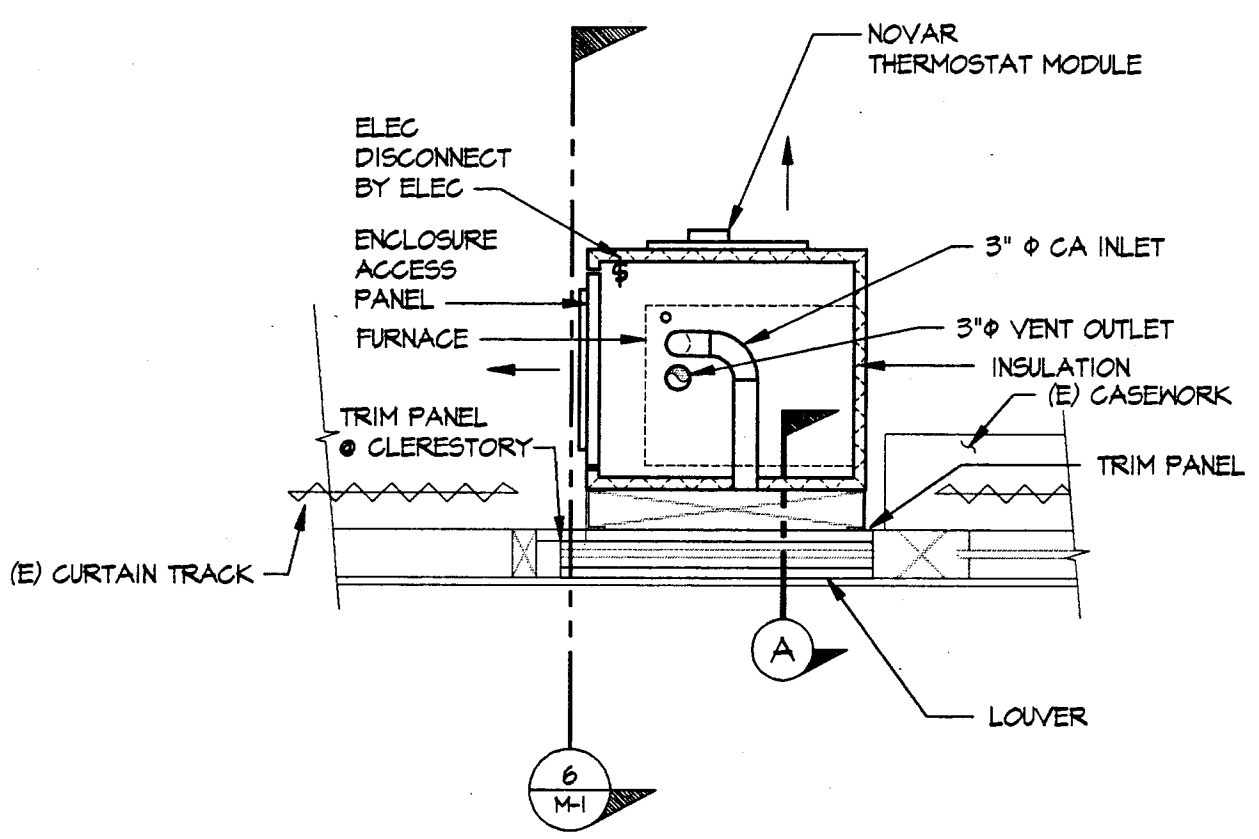


- 1 (N) EXHAUST FAN ON ROOF, RELIEF VENT SIMILAR.
- 2 VSG PREFAB ROOF CURB TO CONFORM TO ROOF SLOPE BY FAN MFR.
- 3 SECURE UNIT BASE TO CURB WITH 1/4\"/>
- 4 FLASHING
- 5 CURB GASKET FURNISHED BY CURB MFR.
- 6 UNIT BASE & ENTIRE UNIT EXTERIOR PAINTED.
- 7 SEE FLOOR PLAN FOR DUCT SIZE & EA CFM.
- 8 SECURE CURB TO ROOF FRAMING WITH 3/8\"/>
- 9 FRAMING AT OPENING BY GENERAL CONTRACTOR - SEE DWG S-1
- 10 WIRING PIPE CHASE BY FAN MFR.
- 11 (N) 1\"/>

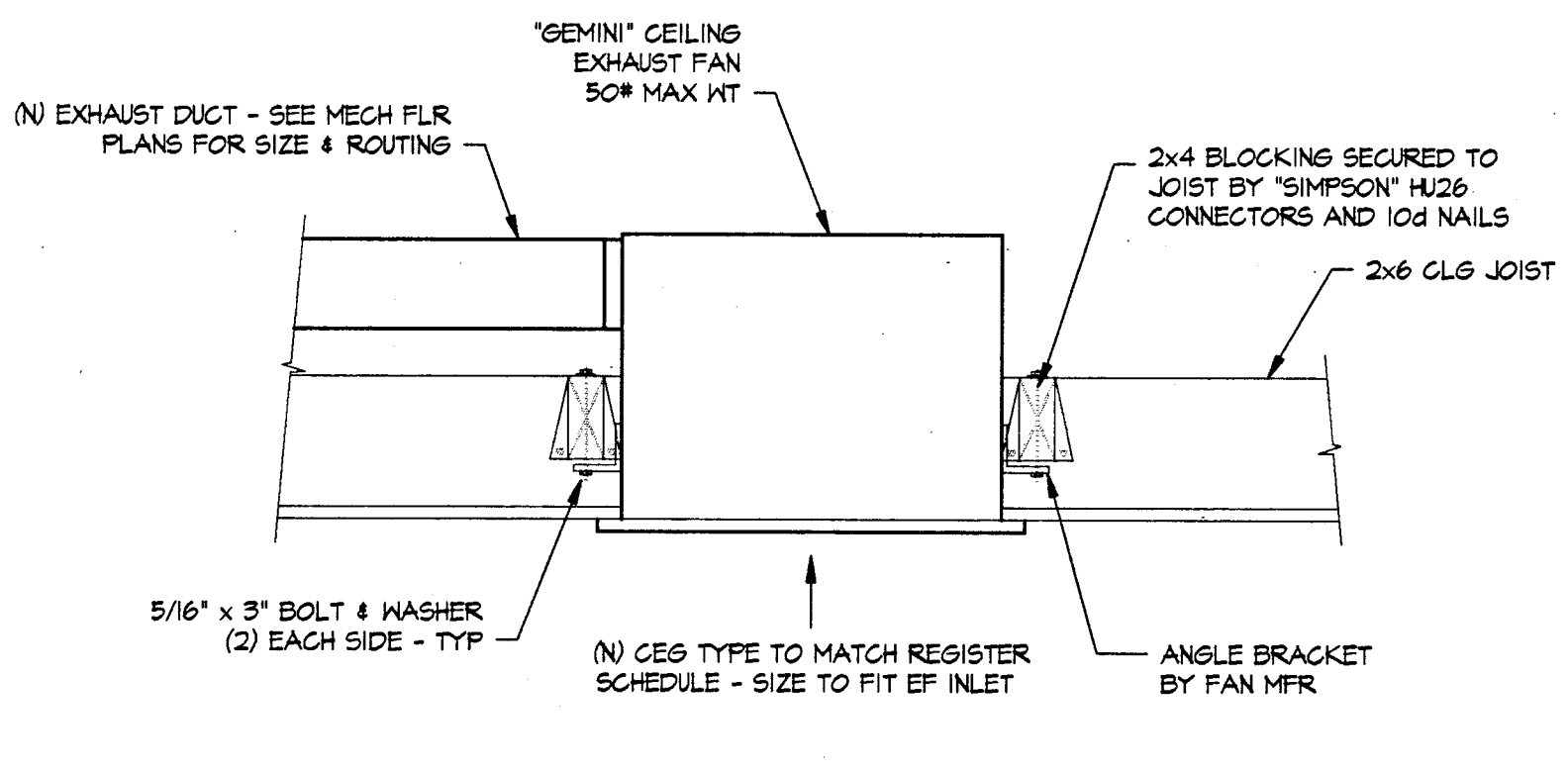
4 EXHAUST FAN MOUNTING DETAIL
M-1 NOT TO SCALE (RELIEF VENT SIMILAR)



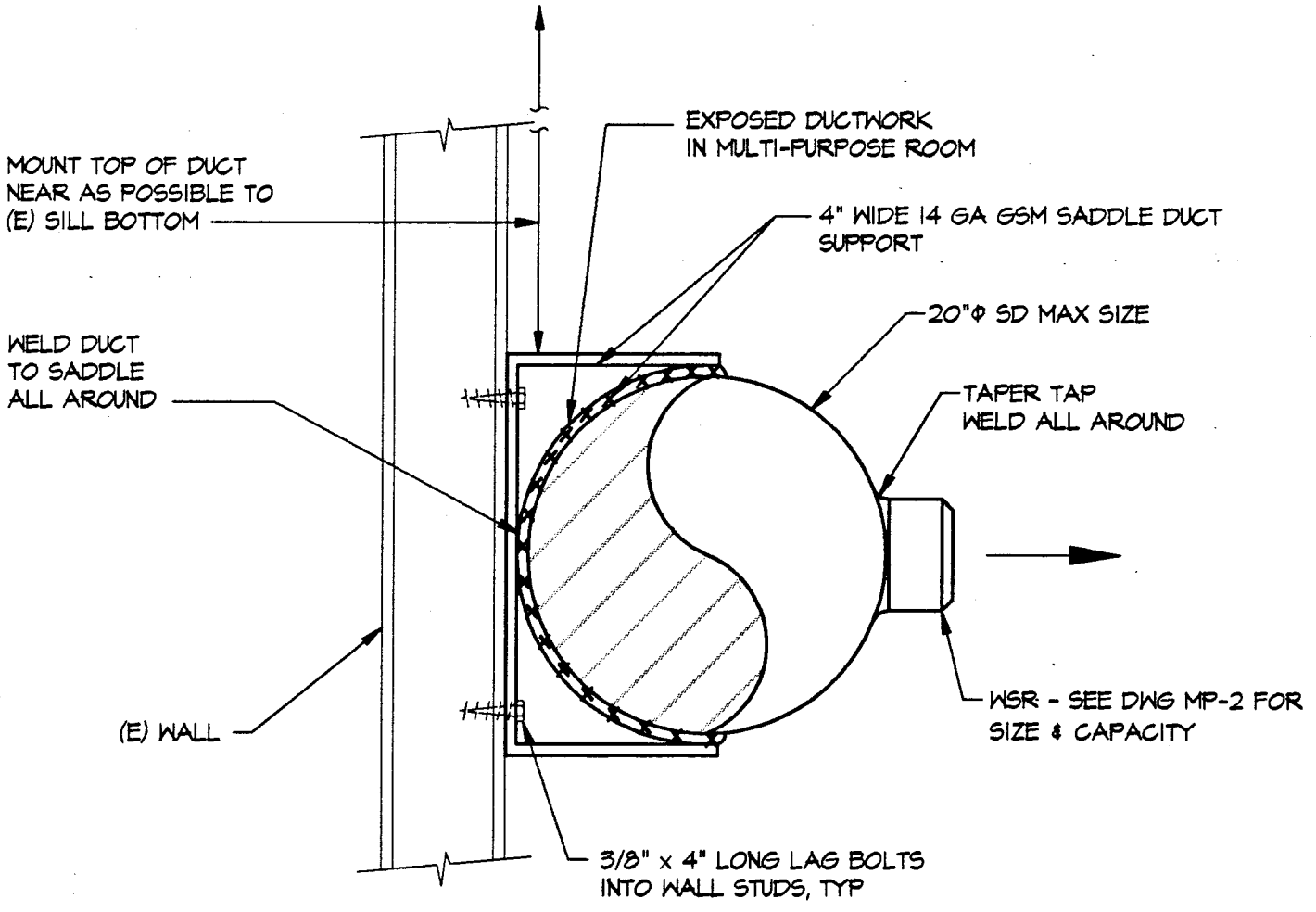
1 FURNACE INSTALLATION 1 - PLAN
M-1 SCALE: 1/2\"/>



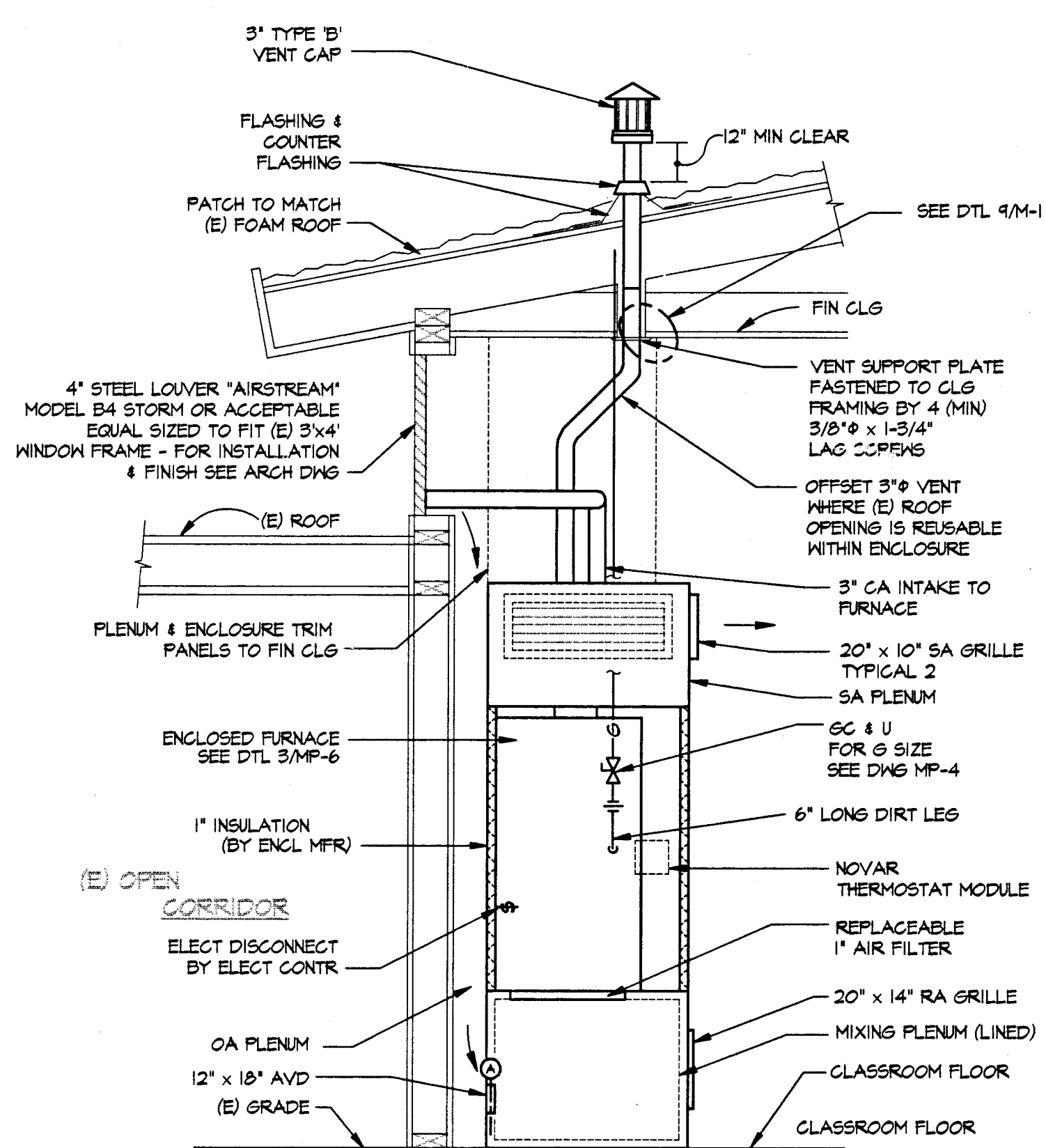
2 FURNACE INSTALLATION 2 - PLAN
M-1 SCALE: 1/2\"/>



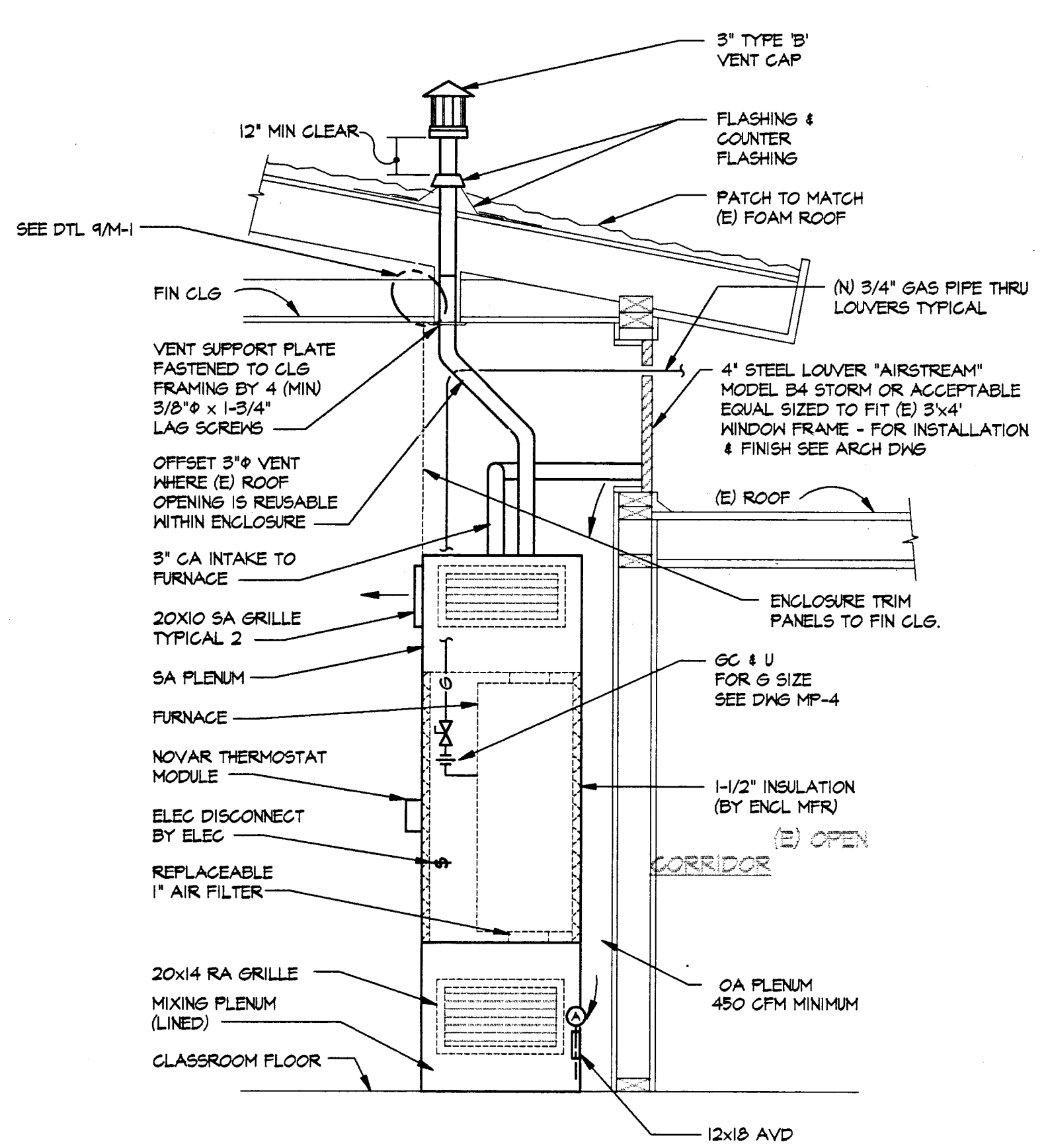
7 (N) CEILING EXHAUST FAN MOUNTING
M-1 NOT TO SCALE



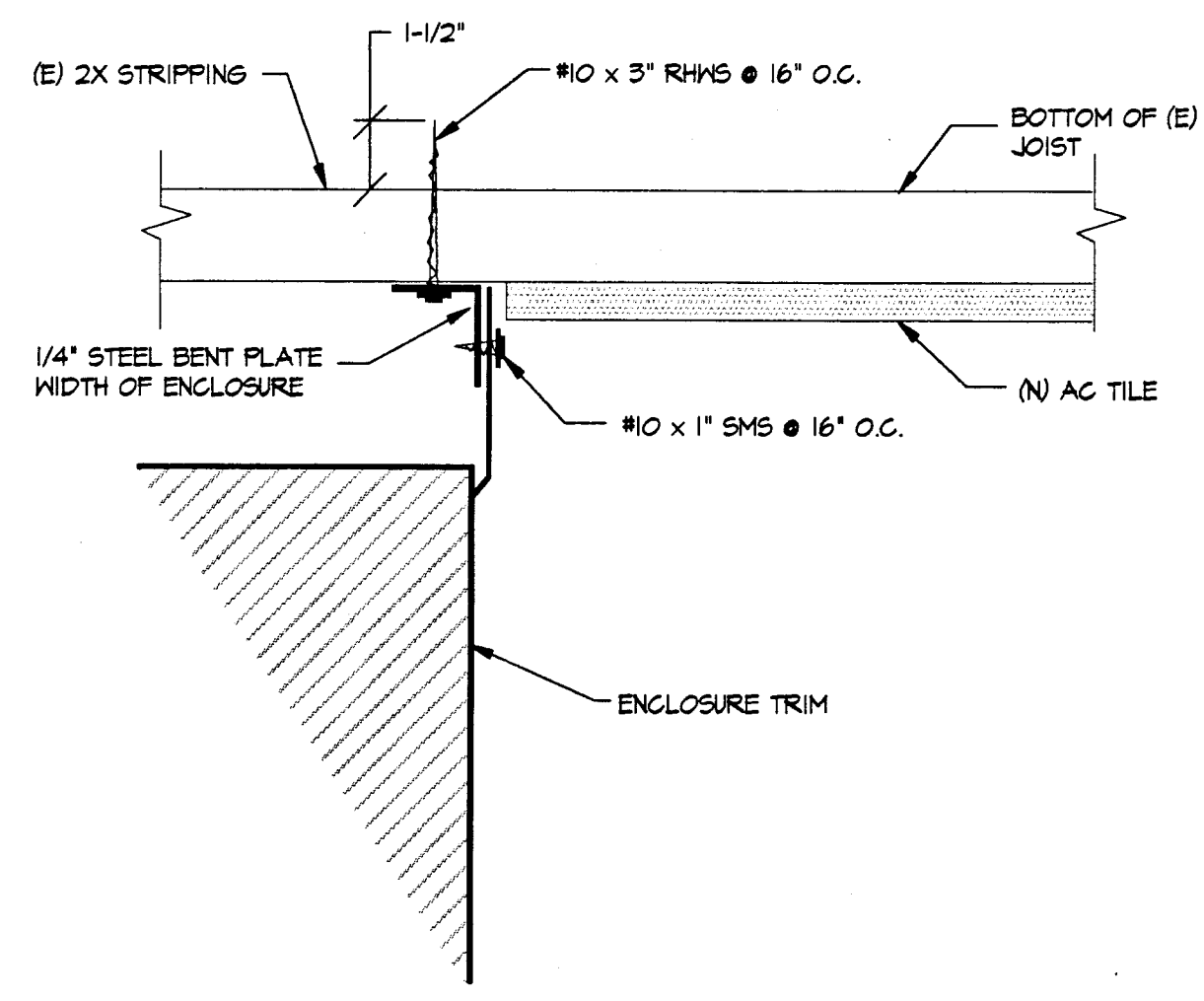
8 WALL MOUNTED DUCT SUPPORT
M-1 NOT TO SCALE



5 SECTION @ CLASSROOM FURNACE 1
M-1 SCALE: 1/2\"/>



6 SECTION @ CLASSROOM FURNACE 2
M-1 SCALE: 1/2\"/>



6 FURNACE TRIM INSTALLATION AT CEILING DETAIL
M-1 NOT TO SCALE

APPROVALS

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**MODERNIZATION AT
HIGHLAND
ELEMENTARY SCHOOL**
FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

ARCHITECT

NOTE:
THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AT THE JOB AND SHALL BE RESPONSIBLE FOR ALL DISCREPANCIES BETWEEN DIMENSIONS OF THE ACTUAL WORK AND THOSE SHOWN IN THE DOCUMENTS OR ARCHITECTS APPROVED SHOP DRAWINGS. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR ALL QUANTITIES OF MATERIAL OR EQUIPMENT CALLED FOR TO PROPERLY COMPLETE THE WORK.

SHEET TITLE

MECHANICAL
DETAILS

DATE

6/16/95

DRAWING NUMBER

15

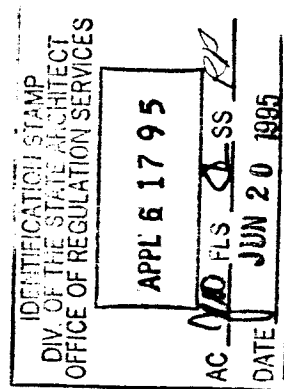
FILE NO.

77-15-3

SHEET 22 OF 30



APPROVALS

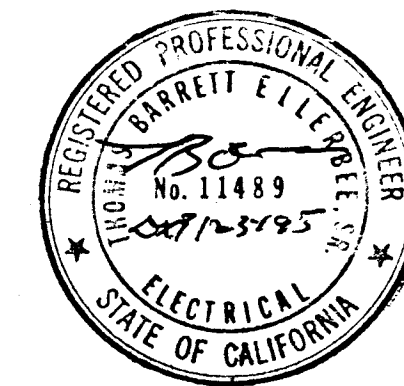


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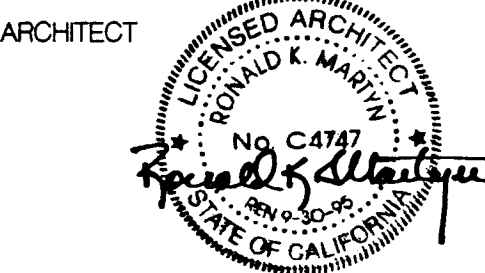


MODERNIZATION AT

**HIGHLAND
ELEMENTARY SCHOOL**

FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

ARCHITECT



NOTE

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AT THE JOB AND SHALL BE RESPONSIBLE FOR ALL DISCREPANCIES BETWEEN DIMENSIONS OF VOLTAGE FLUCTUATIONS, LIGHTING, AND DIMENSIONS OR ARCHITECTS APPROVED SHOP DRAWINGS. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR ALL QUANTITIES OF MATERIALS OR EQUIPMENT ORDERED FOR TO PROPERLY COMPLETE THE WORK.

SHEET TITLE

**ELECTRICAL SYMBOLS,
FIXTURE, SCHEDULE
& GENERAL NOTES**

DATE

6/16/95

DRAWING NUMBER

15

FILE NO.

77-15-3

E-1

SHEET 24 OF 30

SYMBOL LIST:

	LUMINAIRE - SEE SCHEDULE
	LUMINAIRE - SEE SCHEDULE
	LUMINAIRE - SEE SCHEDULE
	LUMINAIRE - SEE SCHEDULE
	EXIT LIGHT - SEE SCHEDULE - INCLUDING FLOOR LEVEL EXIT SIGN PER TITLE 24 CEC 9314 (c). EMERGENCY EXIT LIGHT INSTALL AS DIRECTED
	SINGLE POLE SWITCH, 48" AFF U.O.N.
	SINGLE POLE SWITCH, 48" AFF U.O.N. a = CIRCUIT CONTROLLED
	THREE WAY SWITCH, 48" AFF U.O.N.
	MOTOR RATED SWITCH HUBBELL 3031-A AT MOTOR
	LIGHTING DIMMER AT 48" AFF U.O.N.
	DUPLEX RECEPTACLE, CEILING MOUNTED
	CONVENIENCE RECEPTACLE WALL MOUNTED - DUPLEX AT 48" AFF U.O.N.
	SPECIAL OUTLET
	GFCI CONVENIENCE RECEPTACLE - DUPLEX AT 48" AFF U.O.N.
	RECEPTACLE DOUBLE DUPLEX AT 48" AFF U.O.N.
	SURGE PROTECTOR DUPLEX RECEPTACLE 15" AFF U.O.N.
	WIRE RACEWAY, INSTALL AS NOTED OR AT 36" AFF
	WIRE RACEWAY RISER OR DROP DOWN
	WALL TELEPHONE HANDSET OUTLET - PROVIDE 3/4" CONDUIT TO ABOVE CEILING U.O.N. INSTALL AT 48" AFF U.O.N.
	DATA WALL OUTLET - PROVIDE 3/4" CONDUIT TO ABOVE CEILING U.O.N. INSTALL AT 48" AFF U.O.N.
	COMBINATION OF VOICE/DATA/TV OR VCR - SEE DETAIL DW6
	INTERIOR SPEAKERS CEILING OR WALL MOUNTED
	EXTERIOR SPEAKER, VANDAL-PROOF AT 8-10" AFF U.O.N.
	CLOCK 8-10" AFF U.O.N. VERIFY BEFORE INSTALLATION
	TV OUTLET - 4-1/8" x 2-1/8" DEEP BOX WITH 1 GANG RING AND 5/8" HOLE IN COVER
	THERMOSTAT - ROUTE 1/2" CONDUIT TO UNIT SERVED. VERIFY WITH MECHANICAL DRAWINGS. MOUNT AT 48" AFF U.O.N.
	PANELBOARD - SURFACE OR FLUSH MOUNTED
	MAIN SWITCHBOARD
	7541" METER W/ CURRENT TRANSFORMER
	JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE TO CODE, TAPE AND TAG WIRES. PROVIDE FLEX AND/OR RECEPTACLE AS REQUIRED TO CONNECT EQUIPMENT
	CONDUIT - CONCEALED IN WALLS OR CEILING
	CONDUIT - EXPOSED
	CONDUIT - IN OR BELOW FLOOR: 3/4" MIN
	CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES. CROSSHATCH WITH SUBSCRIPT '9' INDICATES GREEN GROUND WIRE. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSSHATCHES WITH '10' INDICATES WIRE SIZE OTHER THAN #12'S
	FLEX CONDUIT WITH CONNECTION
	CONDUIT EMERGENCY SYSTEM
	CAPPED CONDUIT
	CONDUIT CONTINUATION
	FUSED DISCONNECT SWITCH - SEE SINGLE DIAGRAM FOR SIZE
	TRANSFORMER - SEE SINGLE LINE FOR SIZE
	MANUAL PULL STATION FIRE PROTECTION SYSTEM AT 48" AFF TO CENTER LINE OF DEVICE
	FIRE PROTECTION STROBE LIGHT, INSTALL AT 8-10" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER
	FIRE PROTECTION HORN/STROBE DEVICE, INSTALL AT 4-10" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER
	FIRE PROTECTION MINI HORN DEVICE, INSTALL AT 4-10" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER
	FIRE PROTECTION EXTERIOR HORN, INSTALL AT 4-10" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER
	BELL/BUZZER SIGNALING DEVICE FIRE PROTECTION SYSTEM, INSTALL AT 4-10" AFF OR 6" BELOW CEILING WHICHEVER IS LOWER
	SMOKE DETECTOR FIRE PROTECTION SYSTEM, INSTALL ON 4" SQ 2-1/8" DEEP JUNCTION BOX
	HEAT/RATE OF RISE DETECTOR FIRE PROTECTION SYSTEM, INSTALL ON 4" SQ 2-1/8" DEEP JUNCTION BOX. 'C' INDICATES DEVICE INSTALLED ABOVE CEILING
	SECURITY DOOR CONTACTS
	DETAIL OR SECTION DESIGNATION
	LUMINAIRE REFERENCE SYMBOL
	MOTION DETECTOR OR CEILING SENSOR LIGHT CONTROL
	ROOM NUMBER
	SHEET REFERENCE SYMBOL - SEE ASSOCIATED NOTE ON SAME SHEET
	GROUND ROD
	FEEDER SCHEDULE SYMBOL

FIRE ALARM GENERAL NOTES:

- WIRE/CONDUCTORS USED IN NET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH (3-310-80), T24 CEC. (1.2. THIN OR THIN).
- OUTSIDE CONDUITS SHALL BE EQUIPPED WITH WATER TIGHT COUPLINGS AND CONNECTORS.
- AUDIBLE ALARM PRODUCED BY 'FACP' SHALL BE CAPABLE OF PRODUCING THE CALIFORNIA UNIFORM FIRE SIGNAL.
- THE FOLLOWING SHALL BE SUPERVISED BY THE 'FACP':
 - FIRE SPRINKLER WATER FLOW ALARMS WITHIN 10 SECONDS OF SYSTEM ACTIVATION.
 - ALL FIRE PROTECTION WATER CONTROL VALVES FOR TAMPER TROUBLE.
 - ALL FIXED EXTINGUISHING SYSTEMS.
- FOR CLASS A/B HIRING INITIATING DEVICES, THEY SHALL BE ZONED BY FLOOR AND BY WING, AS ACCEPTABLE TO THE LOCAL FIRE AUTHORITY. VERIFY ACCEPTANCE FROM LOCAL FIRE AUTHORITY.
- FIRE ALARM ANNUNCIATOR LOCATION SHALL BE APPROVED BY LOCAL FIRE AUTHORITY. VERIFY ACCEPTANCE FROM LOCAL FIRE AUTHORITY WITH STAMPED SITE PLAN.
- ALL DEVICES SHALL BE 'GCFM' LISTED.
- EXTERIOR DEVICES SHALL BE LISTED FOR EXTERIOR USE BY 'GCFM'.
- ALL MANUAL PULL STATIONS SHALL BE MOUNTED AT 48" CENTERLINE ABOVE FINISHED FLOOR.
- MANUAL PULL STATIONS SHALL BE SPACED WITH NO MORE THAN 200 FEET OF TRAVEL DISTANCE BETWEEN THEM AND IN THE DIRECTION OF EGRESS.
- SMOKE DETECTORS ARE REQUIRED THROUGH-OUT THE COMMON ATMOSPHERE WHEN USED AS AN INTERVENING ROOM.
- STROBES ARE REQUIRED IN THE FOLLOWING AREAS:
 - ALL RESTROOMS.
 - MUSIC PRACTICE ROOMS.
 - BAND ROOMS.
 - GYMNASIUM.
 - OCCUPATIONAL SHOPS.
 - MULTI-PURPOSE ROOMS.
 - OCCUPIED ROOMS WHERE AMBIENT NOISE IMPAIRS HEARING THE FIRE ALARM SIGNAL. (I.E. KITCHENS).
 - CORRIDORS.
 - LOBBIES.
 - MEETING ROOMS.
- ALL 'WYAC' FANS IN EXCESS OF 2000 CFM SHALL 'SHUT-OFF' UPON DETECTION OF SMOKE IN RETURN AIR DUCTS.
- PROVIDE DETAILS OF THROUGH-PENETRATION FIRE-STOP SYSTEMS FOR ALL PIPE/CABLE/ CONDUIT PASSING THROUGH FIRE RATED WALLS/FLOORS REQUIRING PROTECTED OPENINGS.
- SYSTEM APPROVAL TEST SHALL BE WITNESSED BY A DEPUTY STATE FIRE MARSHAL.

FIRE SYSTEM NOTES:

- THE FIRE PROTECTION SIGNALING SYSTEM SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, SECTION 804, THE CALIFORNIA ELECTRICAL CODE, ARTICLE 760 & CHAPTER 80 CALIFORNIA BUILDING CODE.
- ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO DSA/ORS FOR REVIEW AND APPROVAL. A COMPLETE SET OF SHOP DRAWINGS SHALL INCLUDE BUT NOT BE LIMITED BY THE FOLLOWING:
 - FLOOR PLAN OF THE POINT TO POINT WIRING CONNECTIONS.
 - A DIAGRAM OF THE POWER CIRCUITRY.
 - BATTERY CALCULATIONS FOR MINIMUM 24 HOURS + 5 MIN ALARM MODE.
 - CUT SHEETS OF ALL THE APPROVED DEVICES AND GCFM LISTING NUMBERS INDICATED ON ALL SHEETS.
 - RESISTOR CIRCUIT.
 - TYPE OF WIRE BEING USED AND STATEMENT THAT ALL WIRE IS RUN IN CONDUIT OR PROTECTED FROM DAMAGE ABOVE 'T-BAR' CEILING.
 - VOLTAGE DROP CALCULATIONS.
 - SYMBOL LEGEND FOR FIRE ALARM COMPONENTS.
 - SEQUENCE OF EVENTS WHEN FIRE ALARM SYSTEM IS ACTIVATED.
- THE FIRE PROTECTION SIGNALING SYSTEM SHALL NOT BE INSTALLED UNTIL THE SHOP DRAWINGS, INCLUDING THE STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN SUBMITTED AND APPROVED BY THE 'DIVISION OF STATE ARCHITECT/ OFFICE OF REGULATION SERVICES' FIRE/LIFE SAFETY. CONTRACTOR SHALL PROVIDE COPIES OF APPROVED PLANS AND THE PROJECT INSPECTOR OF RECORD PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL TEST THE ENTIRE FIRE PROTECTION SIGNALING SYSTEM WITH THE LOCAL FIRE AUTHORITY AND THE PROJECT INSPECTOR OF RECORD AS RECORD AS WITNESS. CONTRACTOR SHALL REPEAT TESTING AS NECESSARY UNTIL SATISFACTORY RESULTS ARE ACHIEVED.
- THE LOCATION OF THE AUTOMATIC FIRE ALARM SYSTEM DETECTORS, MANUAL STATIONS, AUDIBLE DEVICES AND RELATED EQUIPMENT AS SHOWN ON THE PLANS ARE ONLY FOR REFERENCE AND DO NOT CONSTITUTE SHOP DRAWINGS.
- THE FIRE ALARM SYSTEM IS A 'DEFERRED APPROVAL' ITEM AND IS AN EXTENSION OF THE EXISTING SYSTEM AS SHOWN ON THE DRAWINGS.

THE FIRE PROTECTION SIGNALING SYSTEM SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS, INCLUDING STATE FIRE MARSHAL LISTING SHEETS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN SUBMITTED AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT/ OFFICE OF REGULATION SERVICES.

ABBREVIATIONS

A	AMP	AMPERE	M	MANHOLE
AF	ABOVE FINISHED FLOOR	MTD	MOUNTED	
BKR	BREAKER	MTG	MOUNTING	
C	CONDUIT	N	NEW	
C/B	CIRCUIT BREAKER	NC	NOT IN CONTRACT	
CKT	CIRCUIT	NEC	NOT IN ELECTRICAL CONTRACT	
CL	CENTER LINE	N	NOT TO SCALE	
CEILING	CEILING	O.C.	ON CENTER	
CO	CONDUIT ONLY	P	POWER FACTOR	
CTR	CENTER	PF	OR 9 PHASE	
DET	DETAIL	RL	PULL BOX	
DIM	DIMENSION	RM	REMOVED	
EQPT	EQUIPMENT	RSC	RIGID STEEL CONDUIT	
EXIST. (E)	EXISTING	S.A.D.	SEE ARCHITECTURAL DWGS	
FA	FIRE ALARM	SHT	SHEET	
FIN	FINISH	SN	SWITCH	
FL	FLOOR	SVED	SWITCHBOARD	
(F)	FUTURE	TRANSF	TRANSFORMER	
GND	GROUND	U.O.N.	UNLESS OTHERWISE NOTED	
IG	INTERCOM	V	VOLT	
JB	JUNCTION BOX	W	WATT	
KV	KILOVOLT	WP	WEATHERPROOF	
KVA	KILOVOLT AMPERES	XTR	TRANSFORMER	
KW	KILOWATT			
LTS	LIGHTING			
M	MANHOLE			
MH	MANHOLE			

GENERAL NOTES:

- ALL CONDUIT UNLESS OTHERWISE INDICATED ON DRAWINGS SHALL BE AS A MINIMUM HAVE (2) # 12S WITH (1) # 12 GROUND.
- COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT & PANELS W/ ALL OTHER WORK TO AVOID CONFLICTS.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK IDENTIFIED & REQUIRED BY THE MECHANICAL DOCUMENTS. WORK SHALL INCLUDE BUT NOT BE LIMITED BY THE FOLLOWING: DISCONNECT SWITCHES, FUSES, STARTERS, CONTROL, POWER, CONDUIT & JUNCTION BOXES FOR THE THERMOSTATS & FOR AIR HANDLER UNITS.
- SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF LIGHTING FIXTURES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE & INSTALL A COMPLETE TELEPHONE SYSTEM WHICH SHALL INCLUDE TRENCHING & BACKFILL, MOUNTING BOARDS, A COMPLETE CONDUIT SYSTEM, PLASTER RINGS, ETC.
- ALL FLUORESCENT LIGHT FIXTURES WITH 3 OR 4 LAMPS, UNLESS OTHERWISE NOTED, SHALL BE CIRCUITED FOR DUAL LEVEL SWITCHING. INSIDE LAMPS SHALL BE SWITCHED SEPARATELY FROM OUTSIDE LAMPS.
- ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DOCUMENTS TO CONFIRM CEILING TYPES. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL RECD FIXTURE MOUNTING HARDWARE. PROVIDE & INSTALL UL LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FLUORESCENT FIXTURES IN FIRE RATED CELOS.
- LIGHTING FIXTURES WITH EMERGENCY BATTERY BACKUP SHALL HAVE LAMPS SWITCHED & BATTERY UNIT ON 'NON-SWITCHED' CIRCUIT.
- ALL CONDUIT FOR EXTERIOR LIGHTING UNITS SHALL BE RUN INSIDE THE BUILDING W/ FLASHING, CAULKING & SEALS FOR CONDUIT AT THE WALL.
- STUB UP INTO CEILING SPACE FROM EACH NEW PANEL, FOUR (4) 5/4" CONDUITS FOR FUTURE REQUIREMENTS.
- THE ELECTRICAL CONTRACTORS SHALL BE REQUIRED TO VISIT THE SITE PRIOR TO THE SUBMISSION OF BID. THE CONTRACTORS SHALL HAVE FAMILIARIZED THEMSELVES W/ ALL DISCREPANCIES & NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK REQUIRED BECAUSE OF THESE CONDITIONS, WHETHER SPECIFICALLY MENTIONED OR NOT.
- ALL ELECTRICAL HOLES & PENETRATIONS AFFECTED BY ELECTRICAL CONTRACTOR SCOPE OF WORK DURING CONSTRUCTION SHALL BE PATCHED & PAINTED TO MATCH EXISTING OR NEW CONDITION.
- ALL SIGNAL SYSTEM CONNECTIONS ARE NOT SHOWN ON FLOOR PLANS, SEE RISER DIAGRAM.
- ALL FEEDER SIZES NOT SHOWN ON THE FLOOR PLANS, SEE SINGLE LINE DIAGRAM DRAWING.
- CONTRACTOR SHALL DO ALL CUTTING & PATCHING OF EXISTING CORRIDOR CEILING TO SUIT THE FLUSH MOUNTED TYPE LIGHT FIXTURE. PATCHING & PAINTING SHALL BE OF THE SAME WORKMANSHIP, MATERIALS AND FINISH AND SHALL MATCH ACCURATELY WITH THE EXISTING CEILING.
- ALL ELECTRICAL PANELS, JUNCTION BOXES, RECEPTACLES AND OTHER ELECTRICAL DEVICES SHALL BE TAGGED WITH THEIR RESPECTIVE PANEL OR EQUIPMENT AND CIRCUIT NUMBER IDENTIFICATIONS. PANEL OR EQUIPMENT IDENTIFICATION SHALL BE BLACK/WHITE PHENOLIC NAMEPLATE WITH 1/4" HIGH ENGRAVED LETTERS. RECEPTACLES, JUNCTION BOXES SHALL BE BRADY OR 'DYNMO' LABELS WITH 1/4" LETTERS.

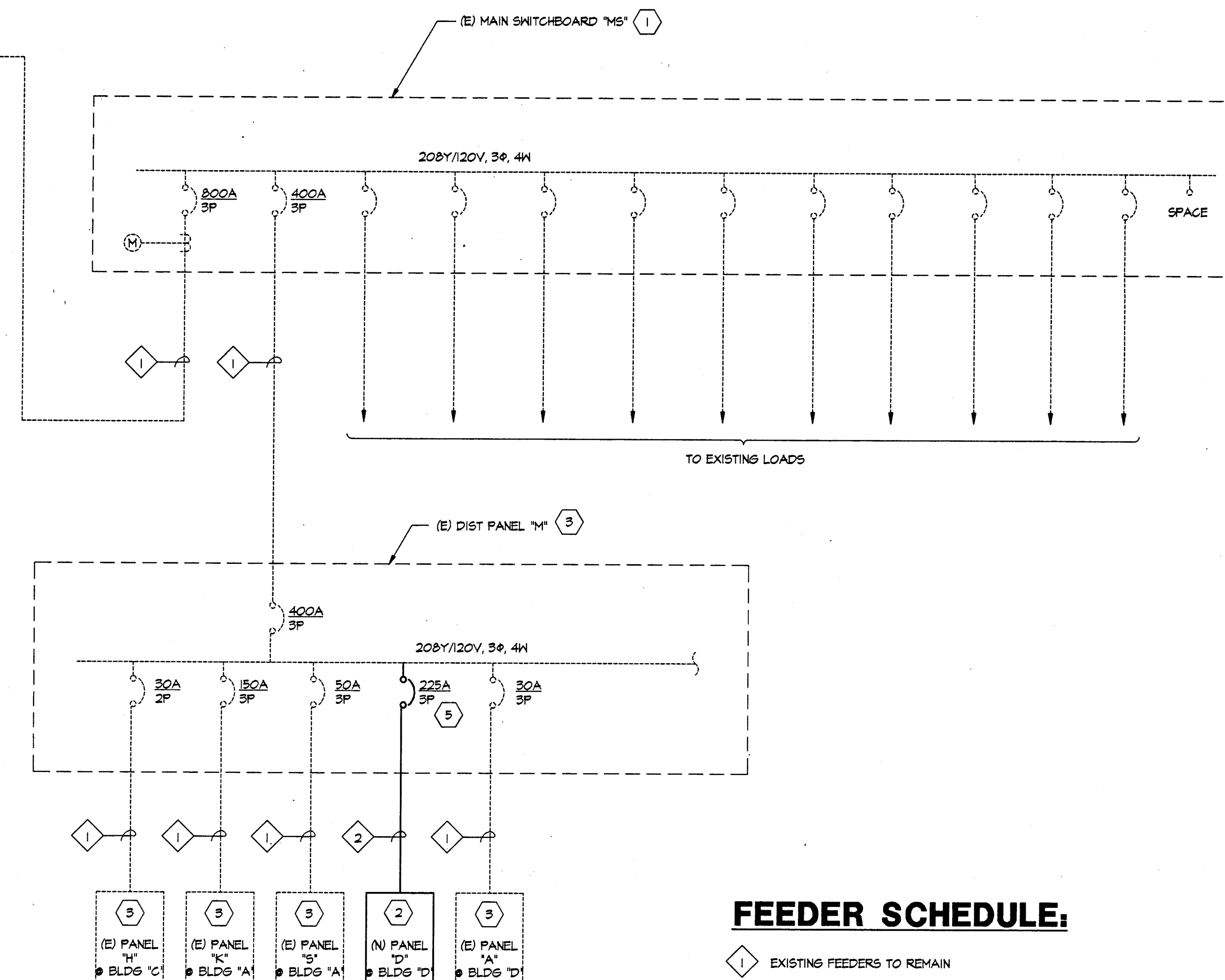
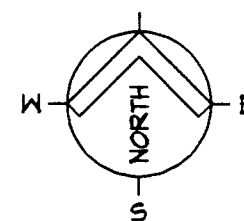
GENERAL DEMOLITION NOTES:

- THE ELECTRICAL CONTRACTOR SHALL REVIEW ANY EXISTING DRAWINGS AVAILABLE AND ALLOW FOR ALL DEMOLITION THAT IS NECESSARY TO COMPLETE INSTALLATION OF NEW ELECTRICAL WORK.
- REMOVE ALL ELECTRICAL EQUIPMENT AND WIRING UNLESS OTHERWISE NOTED. REMOVED ELECTRICAL ITEMS SHALL BE STORED AT A PREDETERMINED LOCATION AS DIRECTED BY THE SCHOOL DISTRICT.
- 'SCHOOL SECURITY SYSTEM' TO REMAIN 'AS-IS' CONTRACTOR IS RESPONSIBLE TO INFORM SCHOOL DISTRICT OR ARCHITECT OF ANY WORK REQUIRED TO FACILITATE THIS CONTRACTS WORK. WRITTEN APPROVAL FROM SCHOOL DISTRICT MUST BE OBTAINED PRIOR TO ANY WORK ON SECURITY SYSTEM.
- PROVIDE PLATE COVERS TO ALL ABANDONED FLUSH OUTLETS OR BOXES. PAINT ALL PLATE COVERS TO MATCH EXISTING WALLS OR CEILING.
- EXISTING RECEPTACLES, EXHAUST FAN SWITCHES, JUNCTION BOXES AND OTHER MECHANICAL EQUIPMENT ELECTRICALLY CONNECTED AT THE KITCHEN AREA SHALL REMAIN.

**DEFERRED APPROVAL REQUESTED
PLAN SUBMITTAL
DRS/ORS NO. #
FILE #**

FIXTURE SCHEDULE				
TYPE	LAMPS	DESCRIPTION	HEIGHT	
A	F5278/855 FLUORESCENT 32 WATTS T8 STYLE 85 CRI 3500K	TANDEM HIRED TWO 2'x4' 3-LAMP SURFACE MOUNTED FLUORESCENT FIXTURES. CLOSE NIPPLE BETWEEN FIXTURE FOR CONNECTION. METAL SIDED SHALLOW BODY. FLUSH STEEL DOOR FRAME WITH STEEL LATCHES AND HINGES. BAKED WHITE ENAMEL FINISH. PROVIDE EACH FIXTURE WITH THREE LAMP ELECTRONIC BALLAST SUITABLE FOR OPERATION WITH T8 STYLE LAMPS. LENS SHALL BE PRISMATIC VIRGIN ACRYLIC MINIMUM 3/16" DEEP. 120 VOLT.	42 LBS	
AI	F5278/855 FLUORESCENT 32 WATTS T8 STYLE 85 CRI 3500K	2'x4' 3-LAMP SURFACE MOUNTED FLUORESCENT FIXTURE. METAL SIDED SHALLOW BODY. FLUSH STEEL DOOR FRAME WITH STEEL LATCHES AND HINGES. BAKED WHITE ENAMEL. ELECTRONIC 3-LAMP BALLAST SUITABLE FOR OPERATION WITH T8 STYLE LAMPS. LENS SHALL BE PRISMATIC VIRGIN ACRYLIC MINIMUM 3/16" DEEP. 120 VOLT.	42 LBS	
A2	F5278/855 FLUORESCENT 32 WATTS T8 STYLE 85 CRI 3500K	2'x4' 2-LAMP SURFACE MOUNTED FLUORESCENT FIXTURE. METAL SIDED SHALLOW BODY. FLUSH STEEL DOOR FRAME WITH STEEL LATCHES AND HINGES. BAKED WHITE ENAMEL. ELECTRONIC 2-LAMP BALLAST SUITABLE FOR OPERATION WITH T8 STYLE LAMPS. LENS SHALL BE PRISMATIC VIRGIN ACRYLIC MINIMUM 3/16" DEEP. 120 VOLT.	42 LBS	
A3	F5278/855 FLUORESCENT 32 WATTS T8 STYLE 85 CRI 3500K	2'x4' 2-LAMP SURFACE MOUNTED FLUORESCENT FIXTURE. METAL SIDED SHALLOW BODY. FLUSH STEEL DOOR FRAME WITH STEEL LATCHES AND HINGES. BAKED WHITE ENAMEL. ELECTRONIC 2-LAMP BALLAST SUITABLE FOR OPERATION WITH T8 STYLE LAMPS. LENS SHALL BE PRISMATIC VIRGIN ACRYLIC MINIMUM 3/16" DEEP. 120 VOLT.	42 LBS	
B	F5278/855 FLUORESCENT 32 WATTS T8 STYLE 85 CRI 3500K	4'x2'x5'1", 2-LAMP SURFACE MOUNTED WRAP-AROUND FLUORESCENT FIXTURE. STEEL BODY, BAKED WHITE ENAMEL. ULTRA VIOLET STABILIZED IMPACT RESISTANT 1/8" THICK POLYCARBONATE LENS SEALED TO BODY WITH CLOSED CELL BASKET. PYRAMIDAL PRISM DESIGN ON LENS BOTTOM AND VERTICAL PERIMETER RIB. ELECTRONIC BALLAST SUITABLE FOR USE WITH T8 STYLE LAMPS. LENS SECURED WITH TAMPER RESISTANT SCREWS. PROVIDE 3 SCREWDRIERS TO OWNER. 120 VOLT.	31 LBS	
C	F5278/855 FLUORESCENT 32 WATT T8 STYLE 85 CRI 3500K	6'x 6'x 48" LONG 2-LAMP HALL MOUNTED DIRECT/INDIRECT FLUORESCENT. WHITE BLADE BAFFLE. MATTE WHITE FINISH. HOUSING SHALL BE DIE FORMED 20 GAUGE STEEL WITH 5/8" REGRESSION AT BOTTOM FOR RIGIDITY. INSTALL ABOVE TOILET MIRROR VERIFY EXACT LOCATION WITH ARCHITECTURAL DRAWING PRIOR TO TO ROUGH-IN.	36 LBS	
D	100 WATT METAL HALIDE HORZ. CLEAR	12" SQUARE RECESSED METAL HALIDE LIGHTING FIXT. TRIM-FLAT WITH TAMPER RESISTANT SCREWS AND HARDWARE. DROPPED PRISMATIC POLYCARBONATE LENS. INTERNAL HIGH POWER FACTOR BALLAST POTTED FOR LOW NOISE. LONG NARROW LIGHT DISTRIBUTION PATTERN. 120 VOLT.	41 LBS	
DI	100 WATT METAL HALIDE HORZ. CLEAR	12" SQUARE SURFACE MOUNTED METAL HALIDE LIGHTING FIXT. WITH TAMPER RESISTANT SCREWS AND HARDWARE. DROPPED PRISMATIC POLYCARBONATE LENS. INTERNAL HIGH POWER FACTOR BALLAST POTTED FOR LOW NOISE. LONG NARROW LIGHT DISTRIBUTION PATTERN. 120 VOLT.	41 LBS	
E	F5210/855/AP 21 WATTS 2D STYLE 82 CRI 3500K	10 INCH SQUARE SURFACE MOUNTED FLUORESCENT FIXTURE. MAXIMUM 2-1/2" DEEP PRISMATIC POLYCARBONATE REFRACTOR. HIGH POWER FACTOR BALLAST. 120 VOLT.	21 LBS	
F	F5278/855 FLUORESCENT 32 WATTS T8 STYLE 85 CRI 3500K	4'x4' 8-LAMP SURFACE MOUNTED FLUORESCENT FIXTURE. ONE PIECE METAL BODY, BAKED WHITE SEMI-GLOSS ENAMEL. FLAT BLACK FINISH INSIDE PERIMETER. FLUSH STEEL DOOR FRAME WITH STEEL LATCHES AND HINGES. PARABOLIC SPHERICAL 4" DEEP ALUMINUM LOUVERS. TWO 4-LAMP ELECTRONIC BALLAST SUITABLE FOR OPERATION WITH T8 STYLE LAMPS. 120 VOLT.	48 LBS	
X	LED.	EMERGENCY EXIT LIGHT UL LISTED FOR 424 UNIVERSAL MOUNT WITH BUILT-IN SELF-CONTAINED BATTERY SYSTEM, EXTRUDED ALUMINUM HOUSINGS WITH BLACK FINISH. GREEN LETTERS ON BLACK BACKGROUND. LIGHTING SOURCE SHALL BE LOW ENERGY 'LED'S'. SURFACE MOUNTED 2" DEPTH. BATTERY SHALL BE SIZED TO PROVIDE POWER TO MINIMUM 40 MINUTES. LIGHT SOURCE SHALL OPERATE ON LESS THAN SEVEN (7) WATTS PER UNIT. CHARGER SYSTEM SHALL BE FULLY AUTOMATIC & SOLID STATE. BATTERIES SHALL BE COMPLETELY SEALED & MAINTENANCE FREE. 120V	6 LBS	
Y	HIGH INTENSITY TUNGSTEN	EMERGENCY LIGHT, DUAL VOLTAGE 120/277V, AUTOMATIC CHARGING CIRCUITRY, INSTANTANEOUS TRANSFER, TEST SWITCH WITH LONG LIFE LED AC CHARGE MONITOR LIGHT. THE CHARGER SHALL UTILIZE AN INTEGRATED CIRCUIT WHICH SAMPLES THE BATTERY IN RELATION TO ITS TEMPERATURE, STATE OF CHARGE AND INPUT VOLTAGE FLUCTUATIONS. THE CHARGER CIRCUITRY SHALL BE CURRENT LIMITING, TEMPERATURE COMPENSATED, AND REVERSE POLARITY PROTECTED. HIGH IMPACT THERMOPLASTIC HOUSING WITH ACRYLIC LAMP SHIELD. LAMPS SHALL BE MOUNTED IN POLISHED REFLECTORS. UNIT SHALL PROVIDE ILLUMINATION FOR A MINIMUM OF 40 MINUTES. UNIT SHALL BE LISTED EMERGENCY LIGHTING EQUIPMENT PER UL424.	6 LBS	

LIGHT FIXTURE LENS SHALL BE PER UBC CODE SECTION 5204, 1988

**FEEDER SCHEDULE:**

- 1 EXISTING FEEDERS TO REMAIN
- 2 NEW 4 #4/0 & 1# 4 GND IN EXISTING 2-1/2" C.

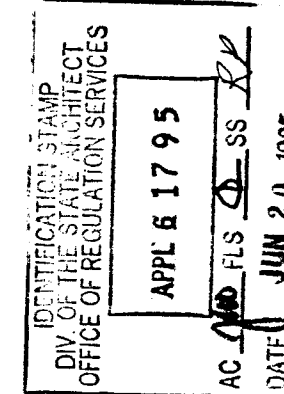
SINGLE LINE DIAGRAM

E-2 NOT TO SCALE

CONSTRUCTION NOTES:

- 1 EXISTING SWITCHBOARD TO REMAIN.
- 2 REPLACE EXISTING PANELEBOARD 4 FEEDER CABLES WITH NEW AS NOTED ON SINGLE LINE DIAGRAM. REMOVE OLD CABLES AS REQUIRED. REUSE UNDERGROUND CONDUIT TO PULL NEW CABLES AS NOTED. CLEAN (E) CONDUIT THOROUGHLY PRIOR TO INSTALLATION OF NEW CABLES. FIELD VERIFY EXISTING CONDUIT ROUTING.
- 3 EXISTING PANEL TO REMAIN. REPAINT (E) PANEL AS REQUIRED TO MATCH EXISTING COLOR.
- 4 ALL EXISTING CONDUIT ON PLAN ARE JUST DIAGRAMMATICALLY SHOWN ONLY. FIELD VERIFY EXACT ROUTING.
- 5 REPLACE EXISTING 150A/3P BREAKER OF DISTRIBUTION PANEL "M" WITH NEW BREAKERS AS INDICATED FEEDING EXISTING BUILDING "D". PULL NEW FEEDER PIPES BY REUSING EXISTING 2-1/2" CONDUIT AS INDICATED ON THE SINGLE LINE DIAGRAM.
- 6 FIELD VERIFY LOCATION OF FIRE ALARM DEVICE ACCESSIBLE TO PUBLIC PRIOR TO INSTALLATION.

APPROVALS

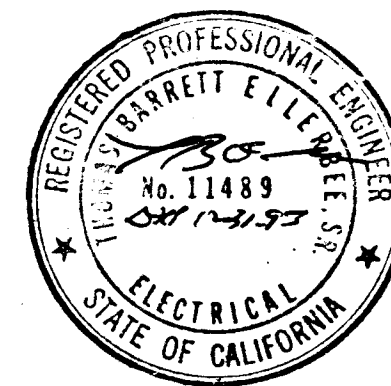


CONSULTANT



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JOB # 94638



**MODERNIZATION AT
HIGHLAND
ELEMENTARY SCHOOL
FOR THE HAYWARD UNIFIED SCHOOL DISTRICT**

FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

ARCHITECT



NOTI

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AT THE JOB AND SHALL BE RESPONSIBLE FOR ALL DISCREPANCIES BETWEEN DIMENSIONS OF THE ACTUAL WORK AND THOSE SHOWN IN THE DOCUMENTS OR ARCHITECT'S APPROVED SHOP DRAWINGS. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR ALL QUANTITIES OF MATERIAL OR EQUIPMENT CALLED FOR TO PROPERLY COMPLETE THE WORK.

SHEET TITLE

**ELECTRICAL
SITE PLAN &
SINGLE LINE
DIAGRAM**

DATE _____

6/16/95

FILE NO.

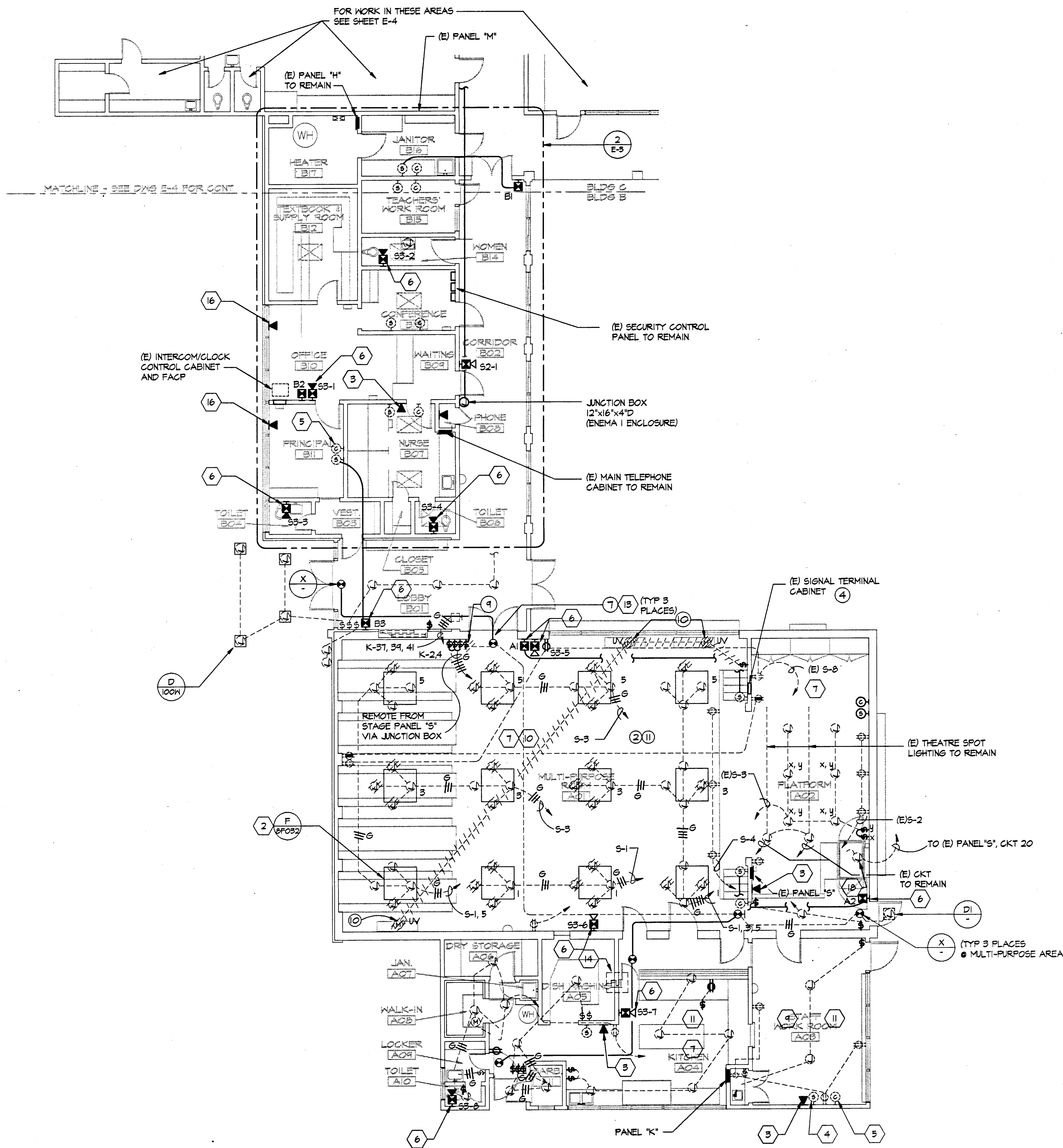
77-15-3

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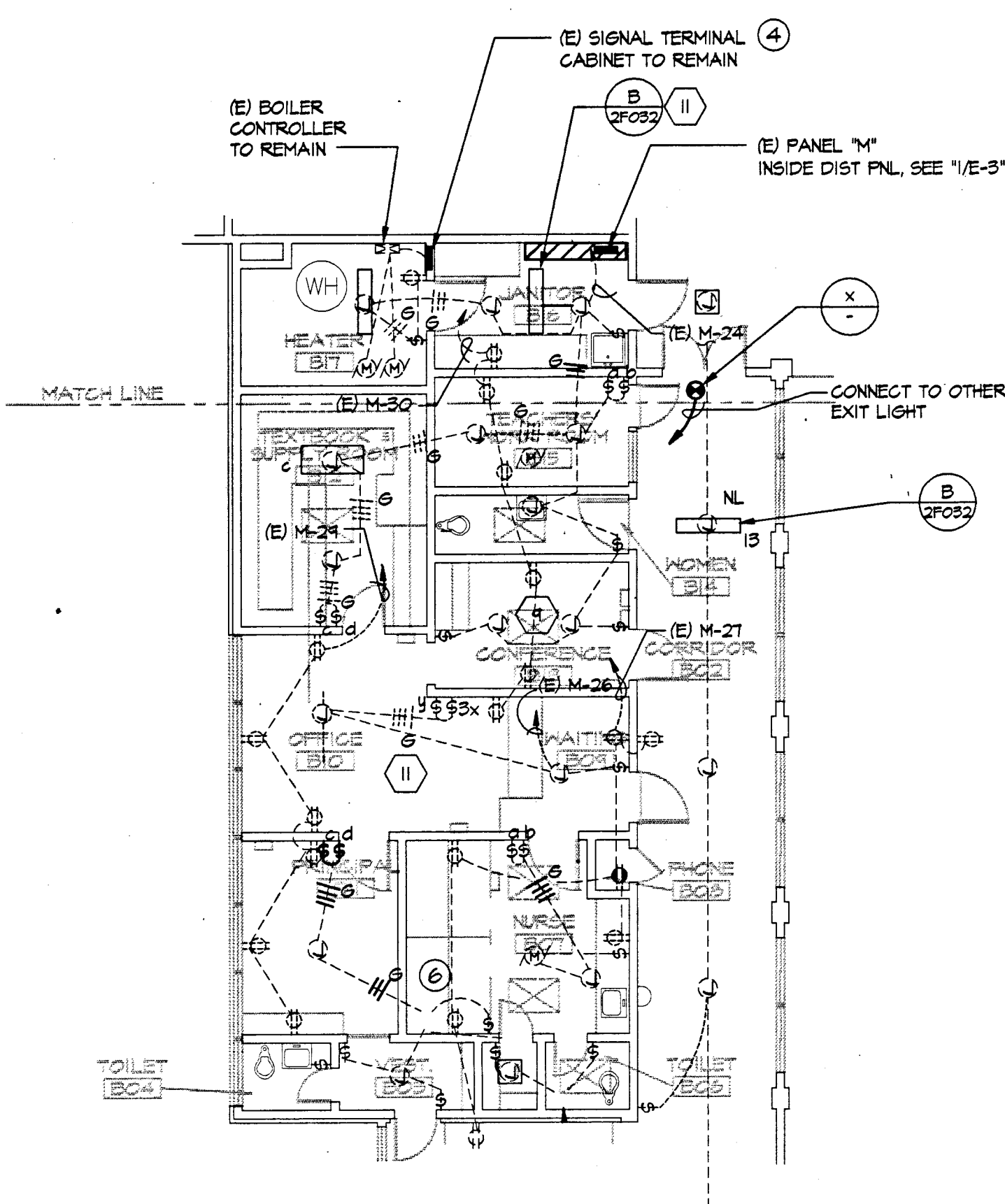
15

E-2

SHEET 25 OF 30



1
E-3
ELECTRICAL FLOOR PLAN - BUILDINGS A & B
SCALE: 1/8" = 1'-0"



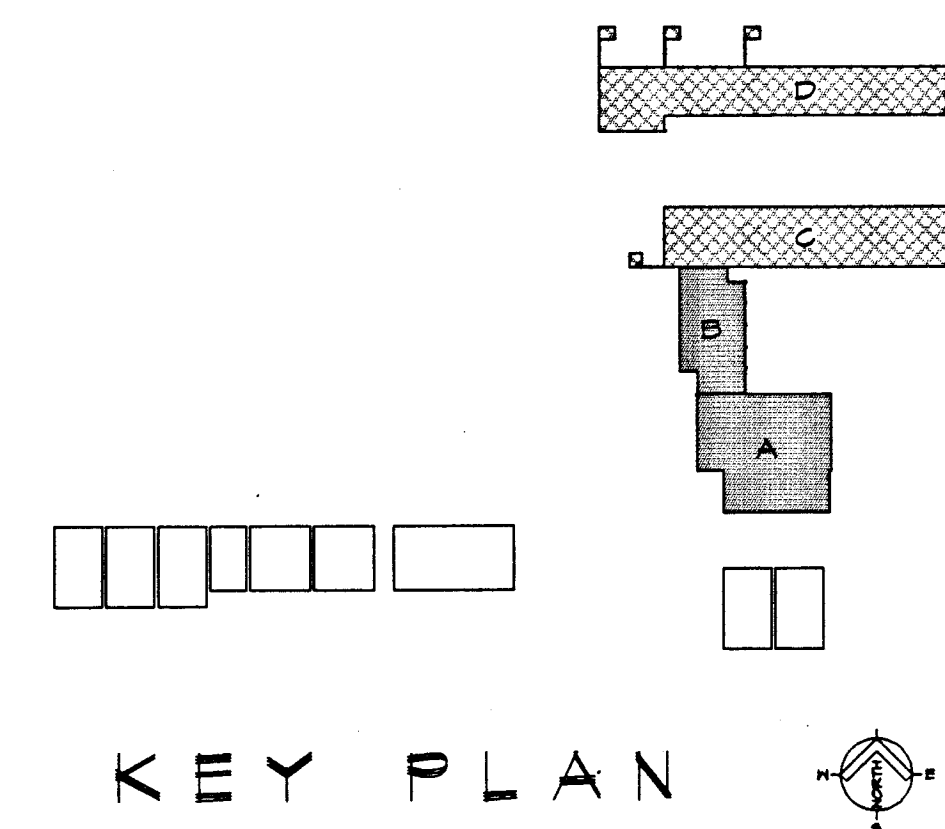
2
E-3
PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

DEMOLITION NOTES:

- 1 REMOVE ALL EXISTING RECEPTACLES AND WIRING BACK TO SOURCE. CONCEALED CONDUIT OR UNDERGROUND CONDUIT TO REMAIN FOR REUSE. MAINTAIN & CLEAN THOROUGHLY ALL CONCEALED OR UNDERGROUND CONDUIT IN PLACE PRIOR TO INSTALLATION OF NEW WIRES AND CABLES. EXPOSED CONDUIT INSIDE OFFICES SHALL BE REMOVED & BE ROUTED TO NEW RACENAT AS INDICATED IN PLAN OR NOTES.
- 2 REMOVE EXISTING FLUORESCENT LIGHT FIXTURES AND WIRING BACK TO SOURCE. ALL REMOVED EXISTING LIGHT FIXTURES SHALL BE TURNED OVER TO SCHOOL DISTRICT. CONCEALED OR UNDERGROUND CONDUIT TO BE ABANDONED IN PLACE. EXPOSED CONDUIT SHALL BE REMOVED AS INDICATED.
- 3 REMOVE EXISTING WALL CLOCKS, INTERCOM, FIRE ALARM DEVICE, SPEAKER & OTHER SIGNAL DEVICES OF ADMINISTRATION OR BUILDING. MAINTAIN EXISTING CONCEALED OR UNDERGROUND CONDUITS FOR REUSE. EXPOSED CONDUITS IN THE OFFICES AND OTHER WORKROOM AREAS SHALL NOT BE ALLOWED EXCEPT IN OTHER AREAS SUCH AS STORE, JANITORIAL & UTILITY ROOMS. EXISTING EXPOSED CONDUIT OUTSIDE THE BUILDINGS ESPECIALLY AT THE CORRIDOR AREAS SHALL REMAIN FOR REUSE.
- 4 REMOVE EXISTING PUBLIC ADDRESS TERMINALS, WIRING ENTIRELY & OTHER ACCESSORIES AND LEAVE THE CABINET IN PLACE FOR REUSE. REPAIR THE CABINET AS REQUIRED AND TO BE ACCEPTABLE TO THE SCHOOL DISTRICT. CONCEALED CONDUITS TO REMAIN IN PLACE FOR REUSE.
- 5 REMOVE EXISTING FIRE ALARM CONTROL PANEL & ITS WIRING ENTIRELY. REMOVE ALL (E) ELECTRICAL MOLDING CONNECTIONS FROM THE CONTROL PANEL TO A DEVICE.
- 6 REMOVE EXISTING DOWNLIGHT FIXTURES & WIRING. EXISTING CONCEALED CONDUITS ABOVE CEILING AND JUNCTION BOXES SHALL REMAIN FOR REUSE.
- 7 REMOVE EXISTING EXIT LIGHTS & WIRING. CONCEALED CONDUITS TO REMAIN FOR REUSE.
- 8 DISCONNECT & REMOVE EXISTING UNIT VENTILATOR CONDUIT & WIRING BACK TO SOURCE PANEL. CONCEALED CONDUIT ABOVE CEILING SHALL BE ABANDONED IN PLACE. PATCH & PAINT OPENINGS LEFT BY REMOVED CONDUITS TO MATCH EXISTING WALLS OR CEILING.
- 9 REMOVE EXISTING LIGHT SWITCH & WIRING BACK TO (E) PANEL "S". ABANDON & PROVIDE PLATE COVER AS REQUIRED.
- 10 REMOVE ELECTRICAL CONNECTION SUCH AS MOUNTING HARDWARE, JUNCTION BOX, MANUAL STARTER OR SWITCH, CONDUIT AND WIRING BACK TO SOURCE AS REQUIRED. PATCH & PAINT ELECTRICAL HOLES TO MATCH EXISTING WALLS.
- 11 REMOVE EXISTING (48) RECESSED TYPE DOWN LIGHTING & WIRING. PATCH & PAINT ALL LIGHT HOLES EXCEPT JUNCTION BOX WHERE TO PULL NEW WIRES FOR NEW LIGHT FIXTURES SHOWN. REWIRE AS NECESSARY TO SUIT THE LIGHTING INSTALLATION.

CONSTRUCTION NOTES:

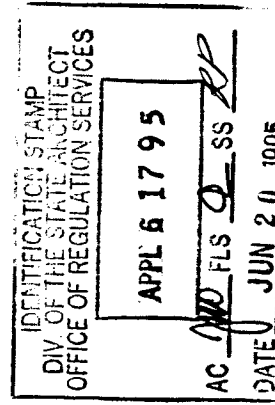
- 1 INSTALL NEW RECEPTACLES NEMA 5-15R AND WIRING TO REPLACE ALL THE EXISTING RECEPTACLES. REUSE EXISTING CONCEALED CONDUITS UP TO SOURCE PANEL. THIS IS TYPICAL TO ALL RECEPTACLES IN THE OFFICES. PATCH & PAINT ALL ELECTRICAL HOLES TO MATCH EXISTING WALLS.
- 2 INSTALL NEW LIGHT FIXTURES, SWITCHES & WIRING. REUSE EXISTING CONCEALED CONDUITS UP TO SOURCE PANEL LIGHTING. PATCH & PAINT ALL ELECTRICAL HOLES TO MATCH EXISTING WALL OR CEILING. DAMAGED CEILING TILES DURING INSTALLATION OF WIRING & FIXTURES SHALL BE REPLACED WITH NEW CEILING TILES AS REQUIRED.
- 3 INSTALL NEW HANDSET TO REPLACE EXISTING. PULL NEW WIRE AS REQUIRED. REUSE EXISTING CONDUIT TO INSTALL NEW WIRES.
- 4 INSTALL NEW SURFACE MOUNTED SPEAKER TO REPLACE EXISTING.
- 5 INSTALL NEW WALL MOUNTED CLOCK AND WIRING TO REPLACE EXISTING. REUSE EXISTING CONDUIT TO INSTALL NEW WIRES.
- 6 INSTALL NEW FIRE ALARM EQUIPMENT AND WIRING. CONTRACTOR TO ROUTE CONCEALED WHERE POSSIBLE. WHERE NOT POSSIBLE ROUTE HUBBELL PREMISETRAK. CONNECT FULL STATION AND HEAT DETECTORS TO NEAREST (65FM LISTED) SPEAKER IN ROOM OR AS SHOWN. SEE RISER DIAGRAM ROUTE HORN-STROBES DIRECTLY TO (E) FIRE ALARM PANEL AS REQUIRED.
- 7 NEW HEAT DETECTORS & WIRING TYPICAL TO ALL OFFICES. CONTRACTOR TO CONNECT TO NEW 65FM LISTED SPEAKER IN ROOM.
- 8 NOT USED.
- 9 REPLACED EXISTING LIGHT FIXTURES WITH NEW FIXTURE AS INDICATED. REUSE EXISTING CONCEALED CONDUIT TO PULL NEW WIRES AS REQUIRED.
- 10 EXISTING RECEPTACLES & CIRCUITS TO REMAIN.
- 11 INSTALL NEW LIGHT FIXTURES, SWITCH & WIRING AS REQUIRED. EXTEND NEW WIRING WITH HUBBELL "WALLTRAK-1" TO SUIT THE NEW LIGHTING INSTALLATION.
- 12 EXISTING ELECTRIC FANS & RECEPTACLES SHALL REMAIN.
- 13 INSTALL NEW EXIT LIGHT AND WIRE BACK TO SOURCE PANEL. REUSE EXISTING CONCEALED CONDUIT TO PULL NEW WIRES.
- 14 INSTALL FUSIBLE HEAVY DUTY DISCONNECT SWITCH, 30A, 240V, 3P NEMA 3R ENCLOSURE FOR MULTIPURPOSE HEATING FURNACE LOCATED AT ROOF OF LOBBY AREA. MAKE ALL NECESSARY CONNECTIONS TO HEATING FURNACE AS REQUIRED. VERIFY TO MECH DWG THE EXACT LOCATION.
- 15 NOT USED.
- 16 INSTALL NEW DESK TELEPHONE TO REPLACE EXISTING. INSTALL NEW WIRES AS REQUIRED. REUSE EXISTING CONDUIT TO PULL NEW WIRES.
- 17 REMOVE (E) FIXTURE & INSTALL JUNCTION BOX PLATE COVER. PAINT JUNCTION BOX PLATE COVER TO MATCH WITH EXISTING CEILING.
- 18 PROVIDE (20VAC, 10 POWER CONNECTIONS TO WHEELCHAIR LIFT FROM EXISTING STAGE PANEL "S". VERIFY OR COORDINATE WITH ARCHITECTURAL DWGS. PRIOR TO INSTALLATION OF CONDUIT. MAKE ALL NECESSARY CONNECTIONS TO WHEELCHAIR LIFT AS REQUIRED.



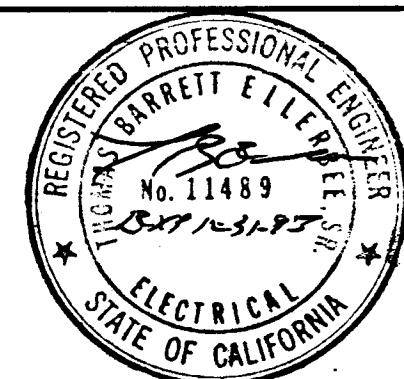
LEGEND

- (E) BUILDING WITHIN SCOPE OF WORK. PLANS SHOWN ON THIS DRAWING.
- (E) BUILDING WITHIN SCOPE OF WORK. PLANS SHOWN ON ANOTHER DRAWING.
- (E) BUILDING OUTSIDE SCOPE OF WORK. DOES NOT QUALIFY FOR MODERNIZATION.

APPROVALS



CONSULTANT



MODERNIZATION AT
HIGHLAND
ELEMENTARY SCHOOL
FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

ARCHITECT



NOTE:
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SHEET TITLE

ELECTRICAL FLOOR PLAN
BLDG A & B

DATE

6/16/95

FILE NO.

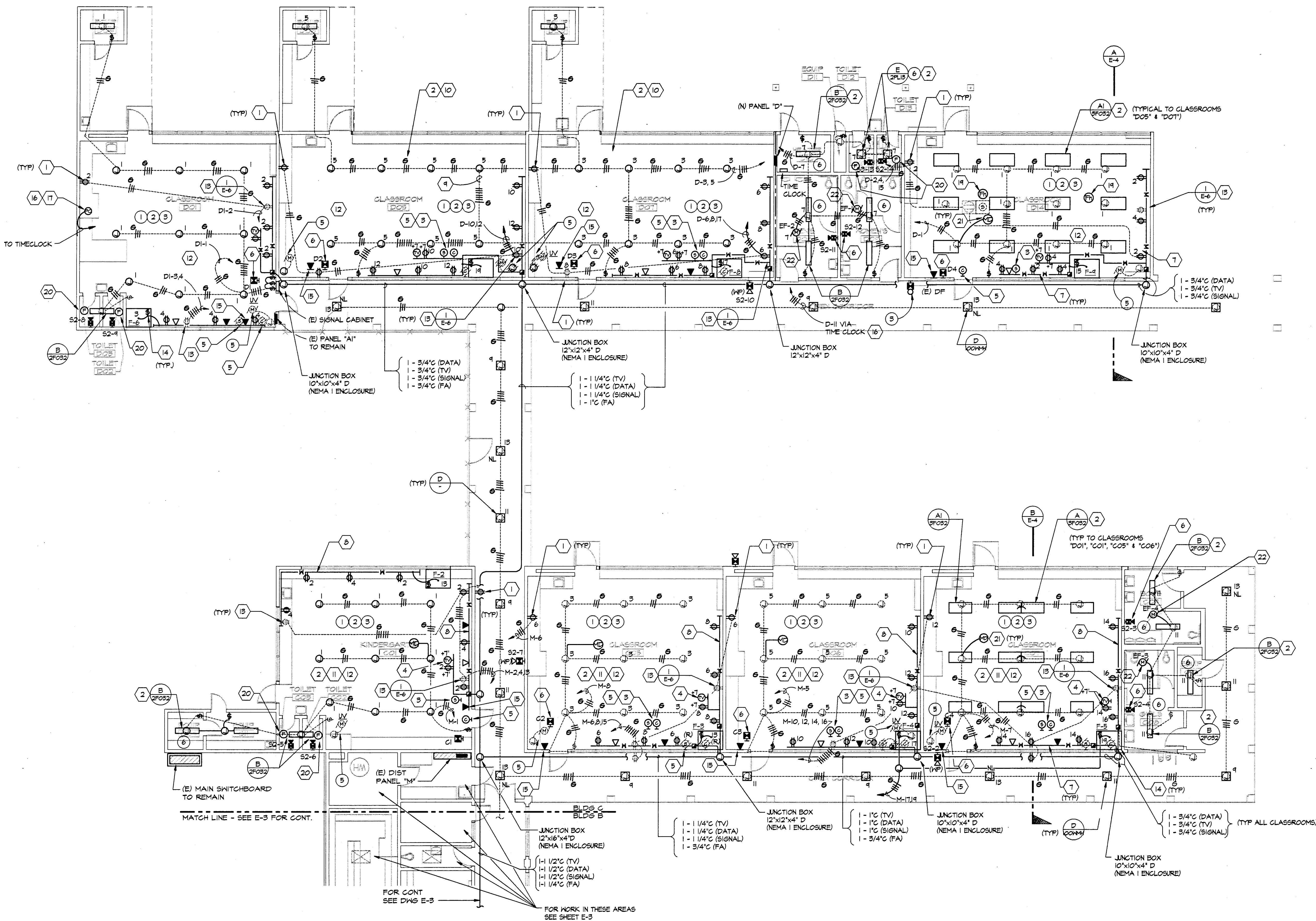
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DRAWING NUMBER

15

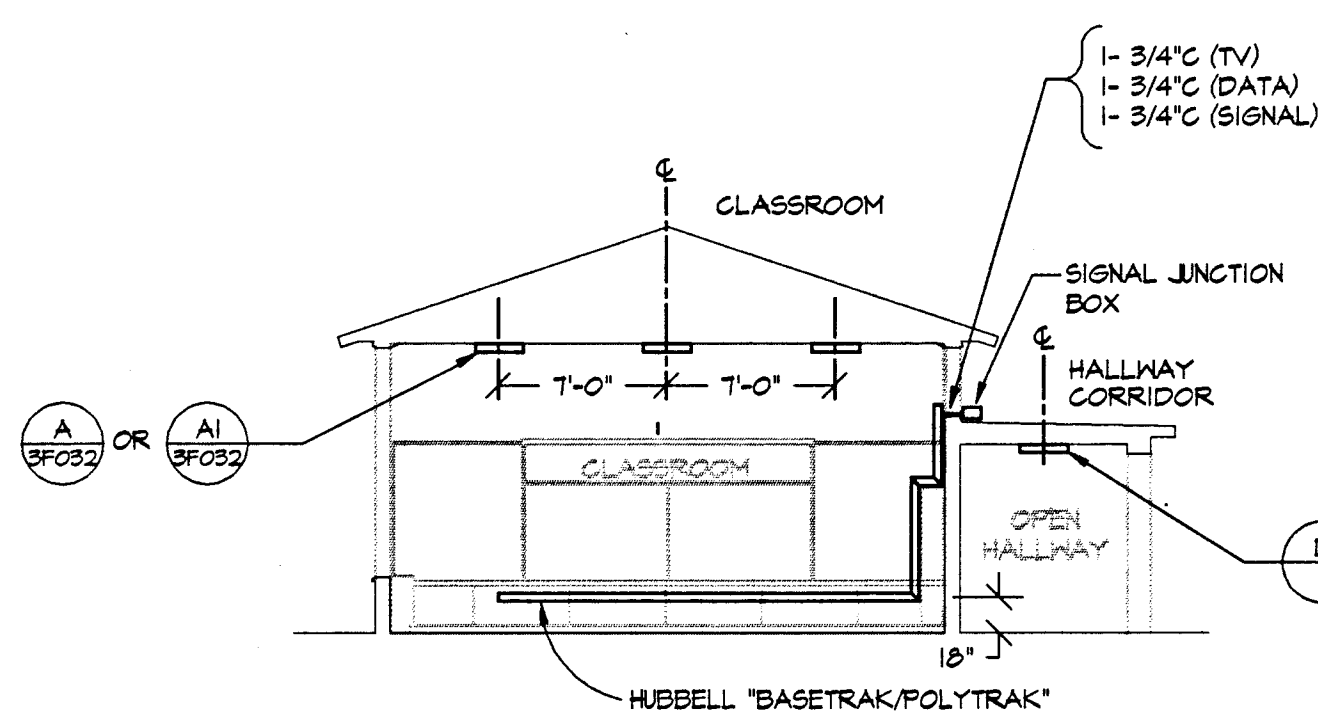
E-3

SHEET 26 OF 30

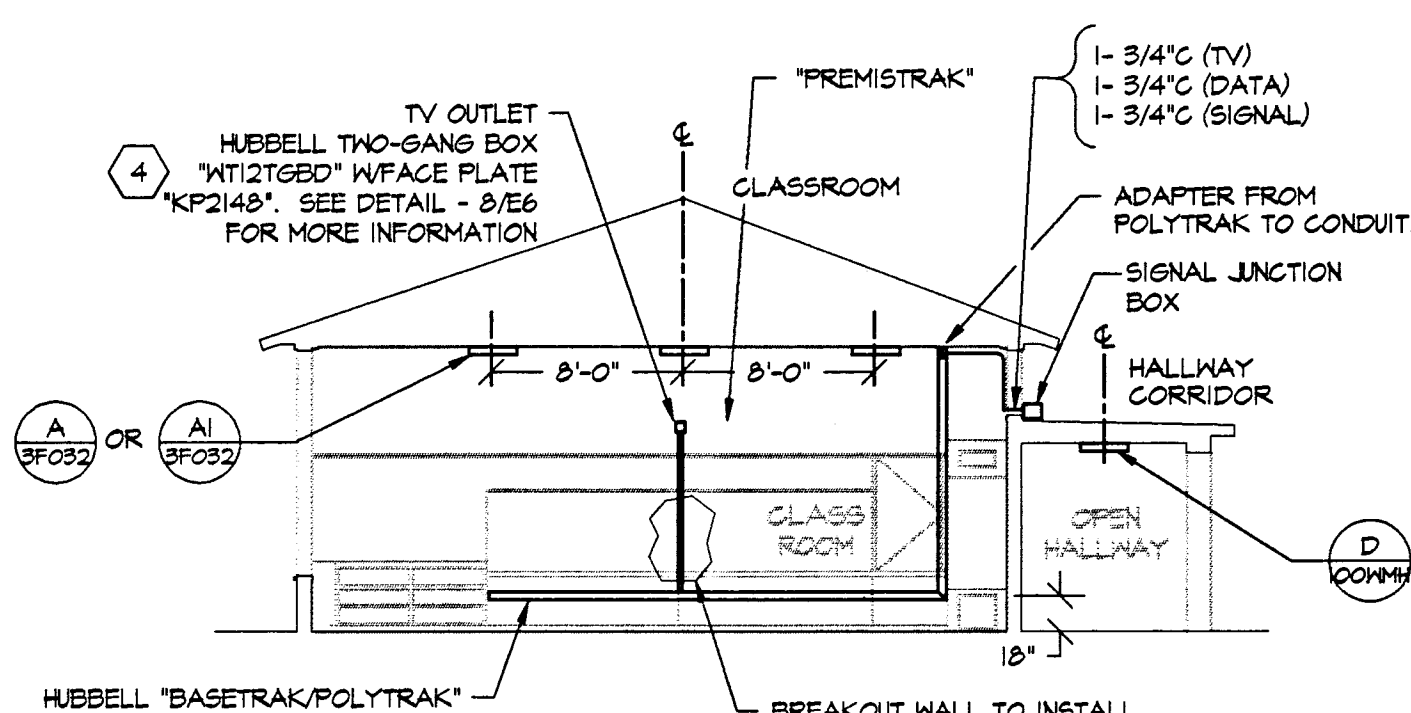


ELECTRICAL FLOOR PLAN - BUILDINGS C & D

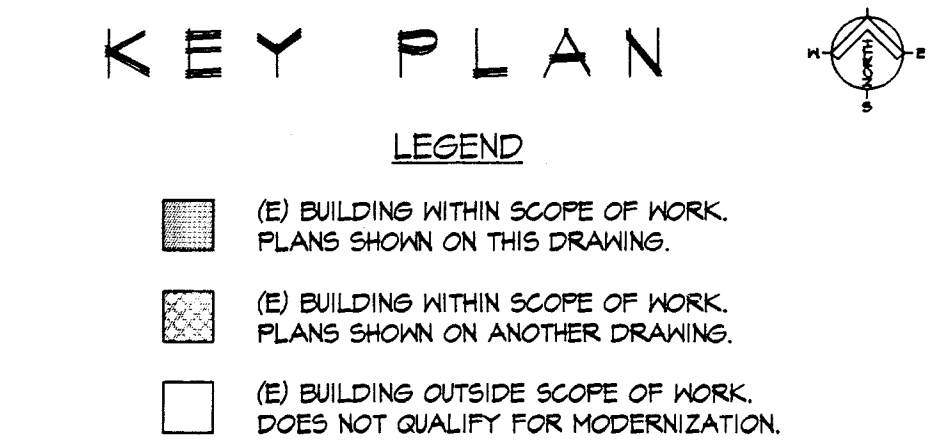
1
E-4 SCALE: 1/8" = 1'-0"



A TYPICAL SECTION @ BLDG D
E-4 SCALE: 1/8" = 1'-0"



B TYPICAL SECTION @ BLDG C
E-4 SCALE: 1/8" = 1'-0"



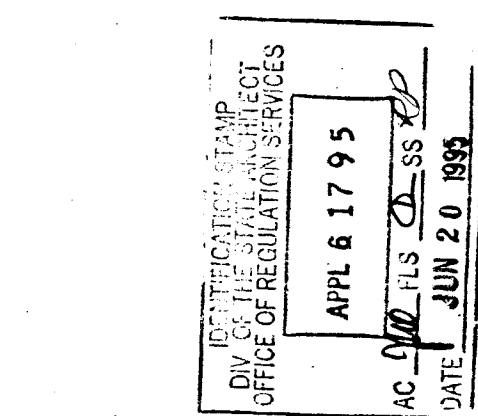
DEMOLITION NOTES:

- REMOVE ALL EXISTING RECEPTACLES AND WIRING BACK TO SOURCE. CONCEALED CONDUIT OR UNDERGROUND CONDUIT TO REMAIN FOR REUSE. CLEAN THOROUGHLY ALL CONCEALED OR UNDERGROUND CONDUIT PRIOR TO INSTALLATION OF NEW WIRES AND CABLES. EXPOSED CONDUIT INSIDE CLASSROOMS AND OFFICES SHALL BE REMOVED & BE ROUTED TO NEW RACEWAY AS INDICATED IN PLAN OR NOTES. OUTDOOR EXPOSED CONDUIT SHALL BE MAINTAINED IN PLACE FOR REUSE.
- REMOVE EXISTING (12) LIGHT FIXTURES AND WIRING BACK TO SOURCE. ALL REMOVED EXISTING LIGHT FIXTURES SHALL BE TURNED OVER TO OWNER OR SCHOOL DISTRICT. CONCEALED OR UNDERGROUND CONDUIT TO REMAIN AND SHALL BE THOROUGHLY MAINTAINED AND CLEANED PRIOR TO INSTALLATION OF NEW WIRES AND CABLES. EXPOSED CONDUIT INSIDE CLASSROOMS SHALL BE REMOVED & BE ROUTED TO NEW RACEWAY AS INDICATED IN PLAN OR NOTES. OUTDOOR EXPOSED CONDUIT SHALL BE MAINTAINED IN PLACE FOR REUSE.
- REMOVE ALL EXISTING SIGNAL OR COMMUNICATION DEVICE AND WIRING BACK TO SOURCE SUCH AS FIRE ALARM SYSTEM, INTERCOM/PUBLIC ADDRESS/TEL. HANDSET, TV SYSTEM, CLOCK SYSTEM & SPEAKER SYSTEM UNLESS OTHERWISE NOTED. CONCEALED CONDUIT OR UNDERGROUND CONDUIT TO REMAIN FOR REUSE. MAINTAIN & CLEAN CONDUIT THOROUGHLY PRIOR TO INSTALLATION OF NEW WIRES & CABLES. EXPOSED CONDUIT INSIDE CLASSROOMS AND OFFICES SHALL BE REMOVED & BE ROUTED TO NEW RACEWAY AS INDICATED IN PLAN OR NOTES. OUTDOOR EXPOSED CONDUIT SHALL BE MAINTAINED IN PLACE FOR REUSE.
- EXISTING SIGNAL TERMINAL BOX & CONCEALED CONDUIT TO REMAIN IN PLACE FOR REUSE. REPAIR EXISTING BOX. THE MATERIALS USED SHALL MATCH WITH THE OTHER ELECTRICAL BOX OR PANEL, AND BE ACCEPTABLE TO THE SCHOOL DISTRICT.
- REMOVE EXISTING 1/4\"/>

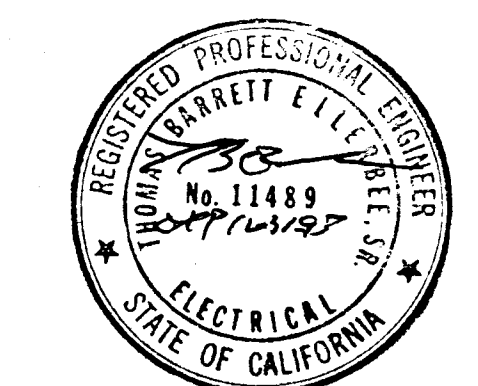
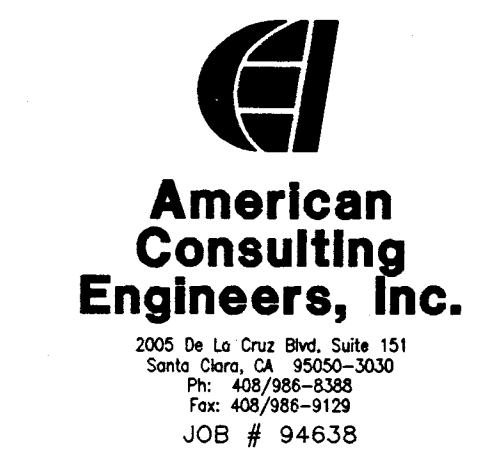
CONSTRUCTION NOTES:

- INSTALL NEW RECEPTACLES NEMA 5-20R AND WIRING TO REPLACE ALL THE EXISTING RECEPTACLES. REUSE EXISTING CONCEALED CONDUITS UP TO SOURCE PANEL. THIS IS TYPICAL TO ALL RECEPTACLES IN THE CLASSROOMS. PATCH & PAINT ALL ELECTRICAL HOLES TO MATCH EXISTING WALLS.
- INSTALL NEW LIGHT FIXTURES, SWITCHES & WIRING. REUSE EXISTING CONCEALED CONDUITS UP TO SOURCE PANEL. EXTEND WIRING WITH HUBBELL "WALLTRAK-1" AS REQUIRED TO SUIT THE NEW LIGHTING INSTALLATION AS INDICATED ON PLAN. EXPOSED CONDUIT OR FLEXIBLE CONDUIT INSTALLATION NOT ACCEPTABLE. SEE NOTE 10. PATCH & PAINT ALL ELECTRICAL HOLES TO MATCH EXISTING WALL OR CEILING. DAMAGED CEILING TILES DURING INSTALLATION OF WIRING & FIXTURES SHALL BE REPLACED WITH NEW CEILING TILES AS REQUIRED.
- REPLACE EXISTING SPEAKER WITH NEW "CFM LISTED" SPEAKER. REUSE EXISTING WIRING AS REQUIRED.
- NEW TV JACK AND DUPLEX RECEPTACLE ON THE HUBBELL "WALLTRAK-22". PROVIDE NECESSARY FITTINGS TO SUIT THE INSTALLATION OF TV JACK & RECEPTACLE. THE BOX SHALL BE HUBBELL "WIT2768D" (TWO GANG BOX W/ DIVIDER) WITH FACE PLATES "KP2148".
- INSTALL NEW WALL MOUNTED CLOCK AND WIRING TO REPLACE EXISTING. REUSE EXISTING CONDUIT TO INSTALL NEW WIRES. SEE RISER DIAGRAM SHEET "E-5".
- INSTALL NEW FIRE ALARM DEVICE AND WIRING INSIDE THE CLASSROOM. DRILL WALL TO INSTALL CONDUIT OUTSIDE THE ROOM AS SHOWN ON PLAN. USE CONDUIT "LBS" AND "TS" FITTINGS TO INSTALL FIRE ALARM DEVICES WHERE VISIBLE TO PUBLIC. ROUTE CONDUITS ALONG WALL UP TO EXISTING FIRE ALARM CONTROL PANEL.
- INSTALL NEW HUBBELL "BASETRAK/POLYTRAK" MULTI-CHANNEL RACEWAY WITH DATA 86\"/>

APPROVALS



CONSULTANT



MODERNIZATION AT
**HIGHLAND
ELEMENTARY SCHOOL**
FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

ARCHITECT



NOTE
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SHEET TITLE

**ELECTRICAL
FLOOR PLAN
BLDG C & D**

DATE

6/16/95

DRAWING NUMBER

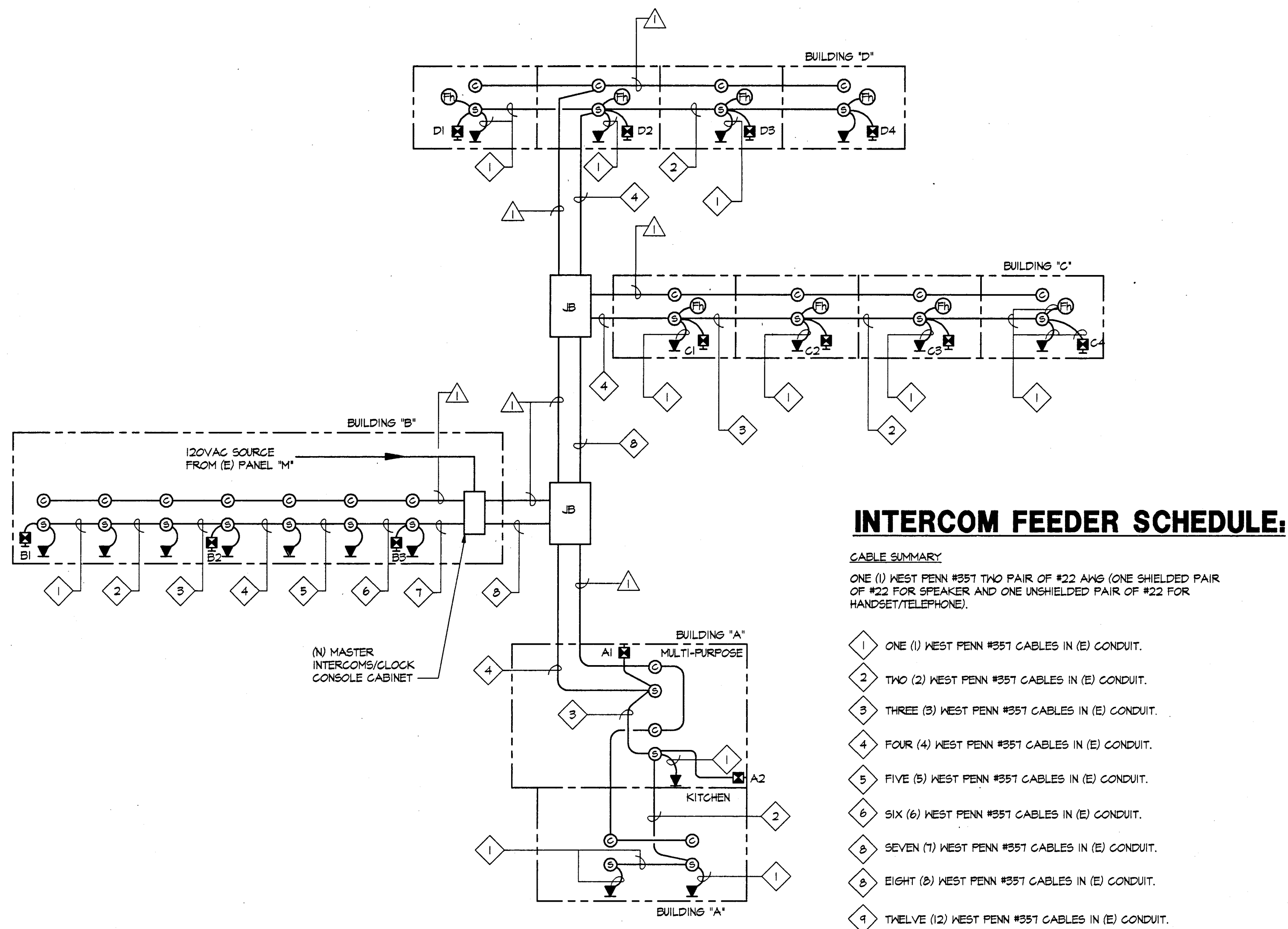
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FILE NO.

77-15-3

E-4

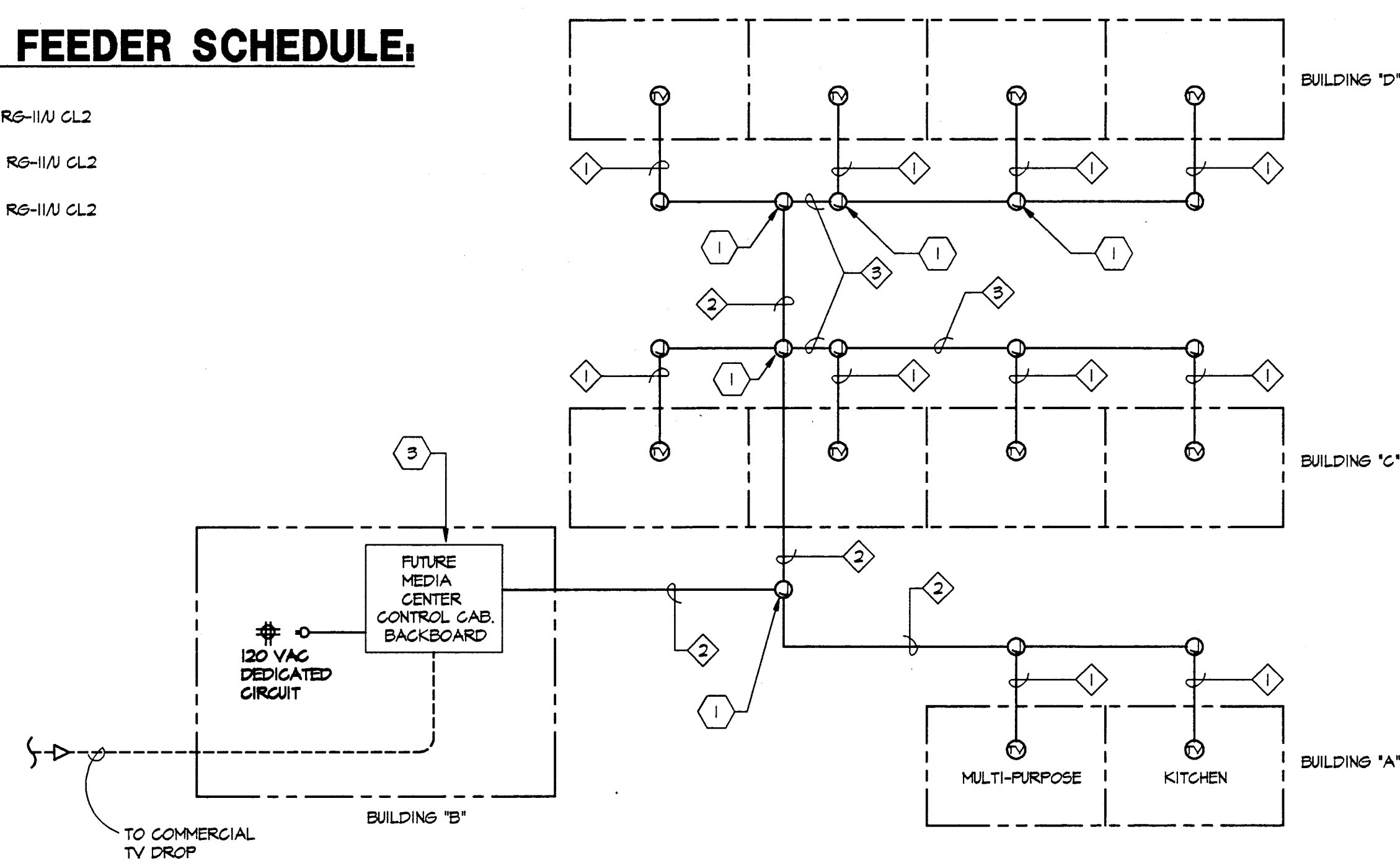
SHEET 27 OF 30



1
E-5
CLOCK AND INTERCOM RISER DIAGRAM
NOT TO SCALE

CCTV FEEDER SCHEDULE:

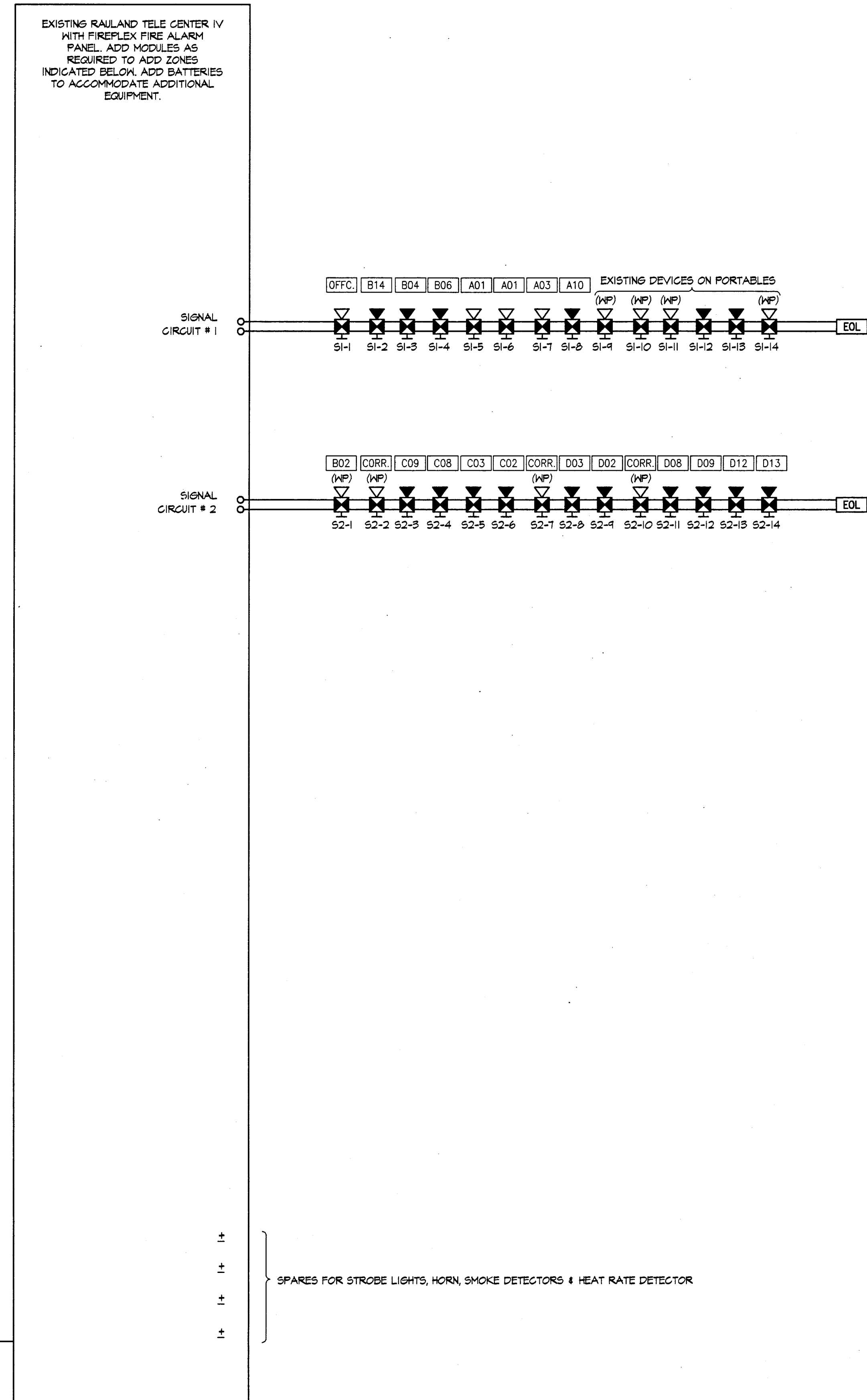
- ① RS-111V CL2
- ② RS-111V CL2
- ③ RS-111V CL2



3
E-5
TV/MEDIA RISER DIAGRAM
NOT TO SCALE

NOTES:

- 1 PROVIDE AND INSTALL SPLITTER CONNECTORS INSIDE THE JUNCTION BOX AS REQUIRED. SEE DWGS E-3 & E-4 FOR JUNCTION BOX SIZES AND LOCATION.
- 2 ROUTE TV CABLE VIA WIREWAY AND CONDUIT ALONG CORRIDORS TO ADMINISTRATION BUILDING.
- 3 COORDINATE WITH SCHOOL DISTRICT THE LOCATION OF MEDIA CENTER BACKBOARD OR UNIT.

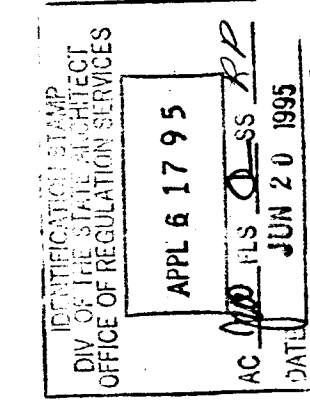


2
E-5
FIRE ALARM SYSTEM RISER DIAGRAM
NOT TO SCALE

NOTES:

1. ALL EXISTING HEAT RATE DETECTORS SHALL BE RECONNECTED TO NEW FIRE ALARM CONTROL PANEL.
2. "T"-TAPS ARE NOT PERMITTED, SHOWN ON RISER ONLY FOR CLARITY.

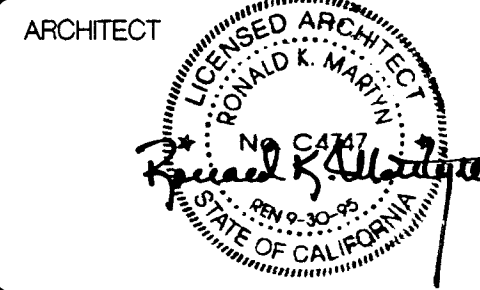
APPROVALS



CONSULTANT



MODERNIZATION AT
**HIGHLAND
ELEMENTARY SCHOOL**
FOR THE HAYWARD UNIFIED SCHOOL DISTRICT



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SHEET TITLE
**CLOCK/INTERCOM
AND TV/MEDIA
RISER DIAGRAM**

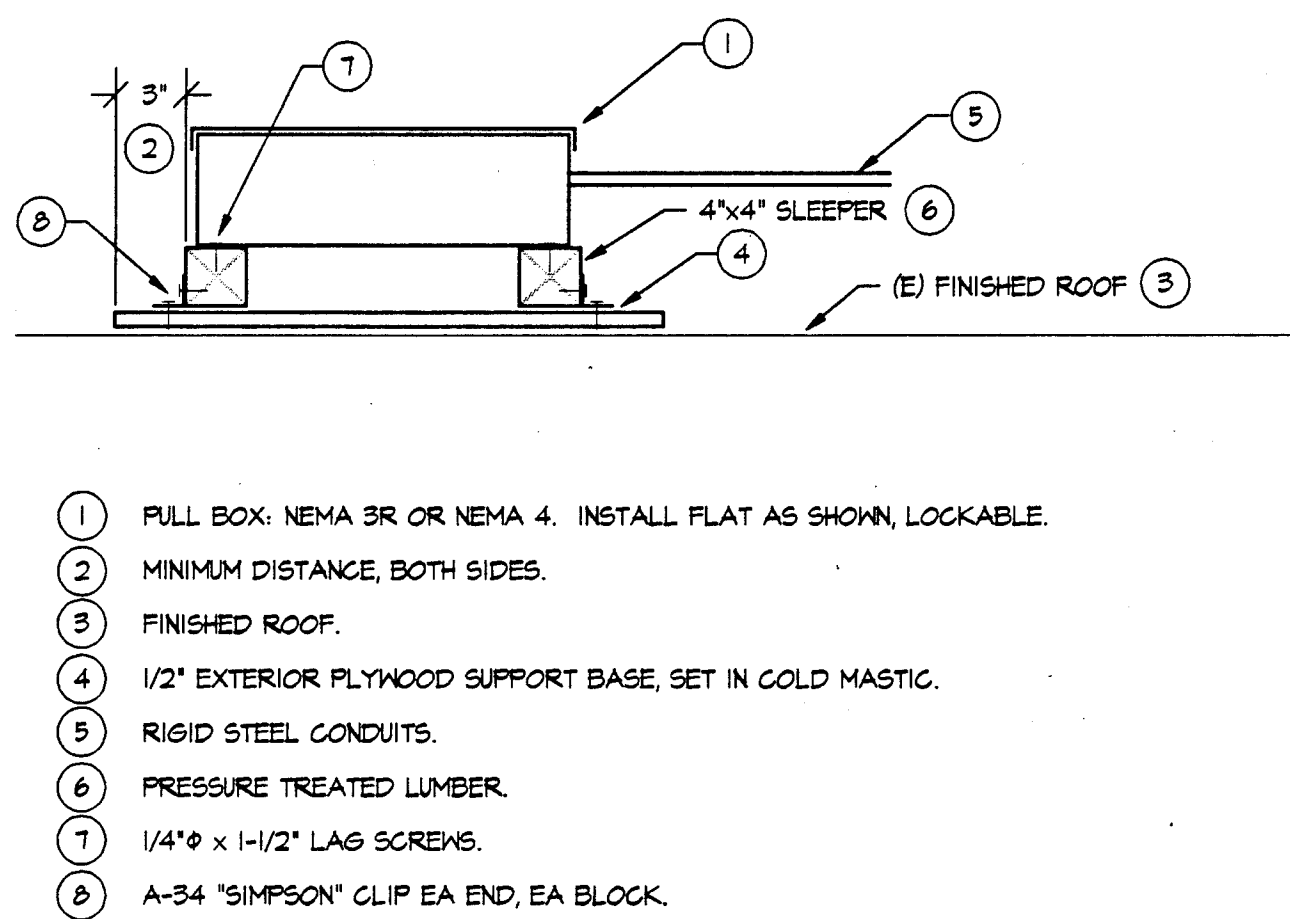
DATE
6/16/95

DRAWING NUMBER
15

FILE NO.
77-15-3

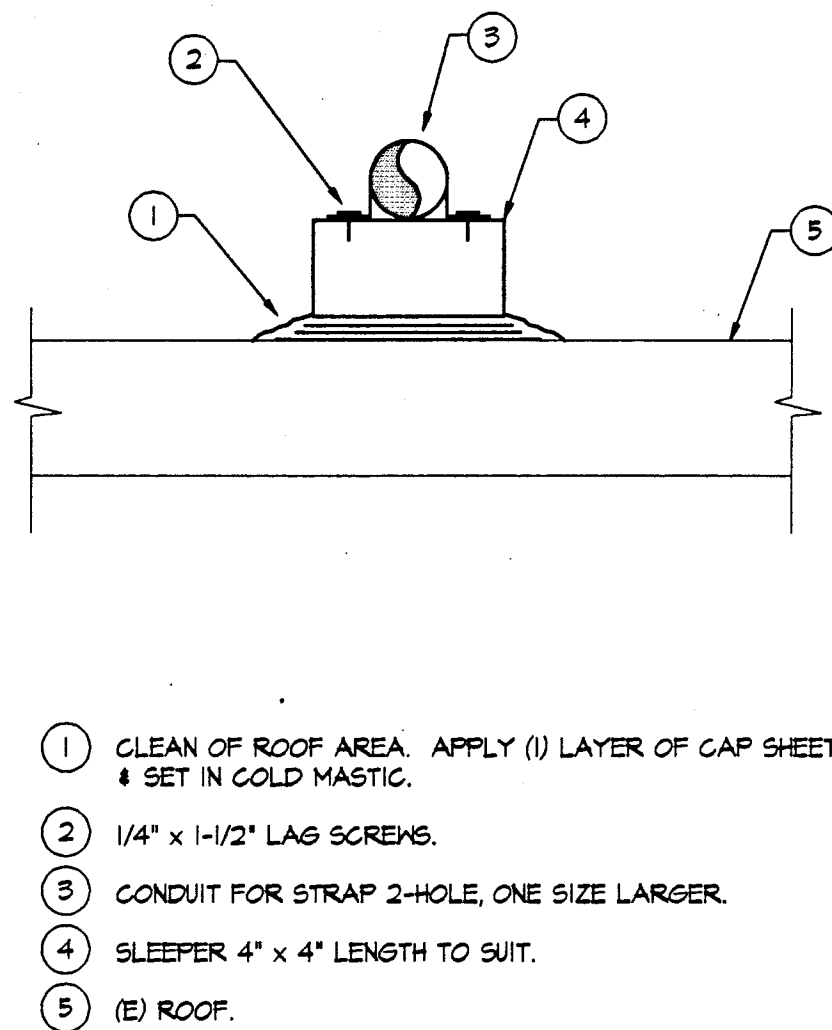
SHEET 28 OF 30

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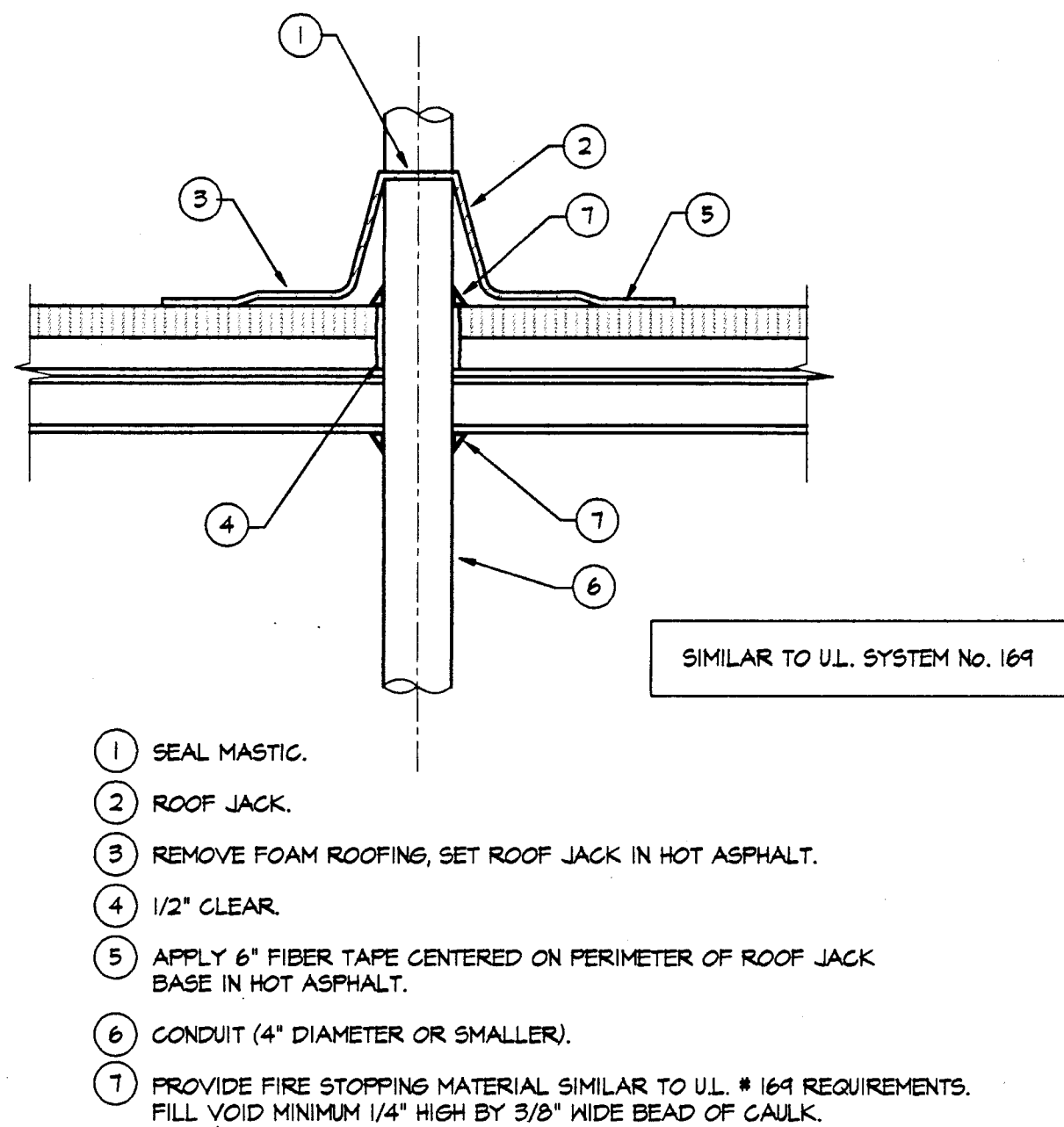
PULL BOX MOUNTED FLAT ON ROOF DETAIL

1
E-6 NOT TO SCALE



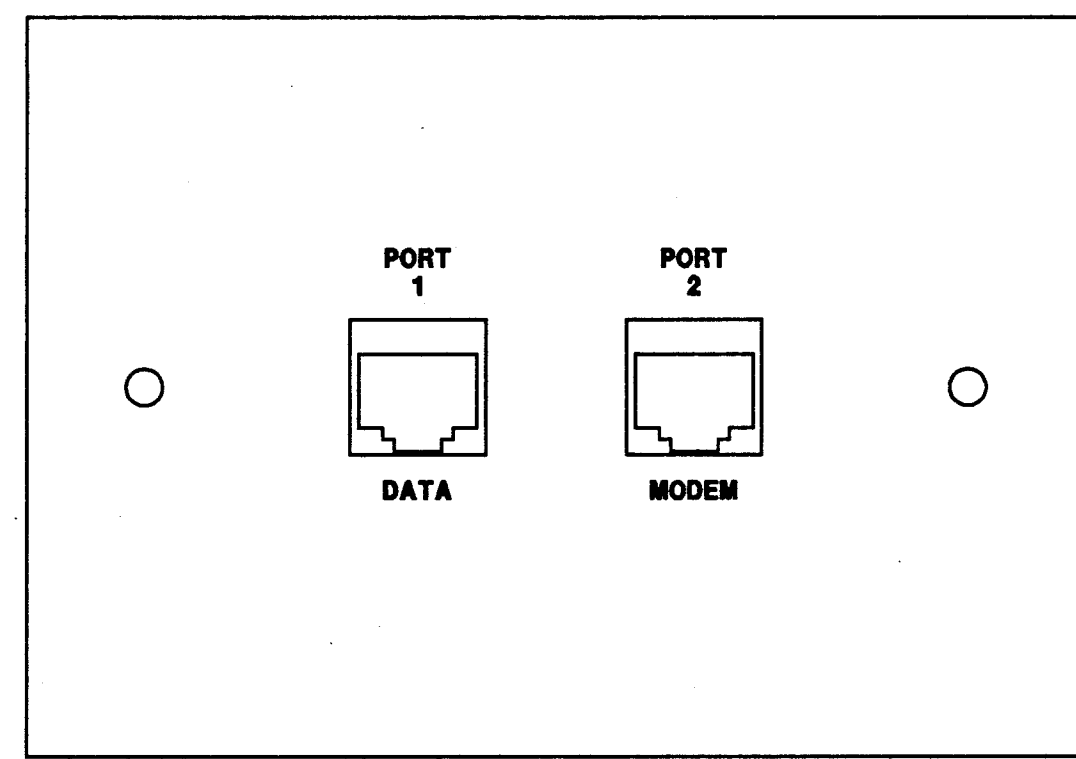
CONDUIT SUPPORT DETAIL

2
E-6 NOT TO SCALE



CONDUIT ROOF PENETRATION

3
E-6 NOT TO SCALE

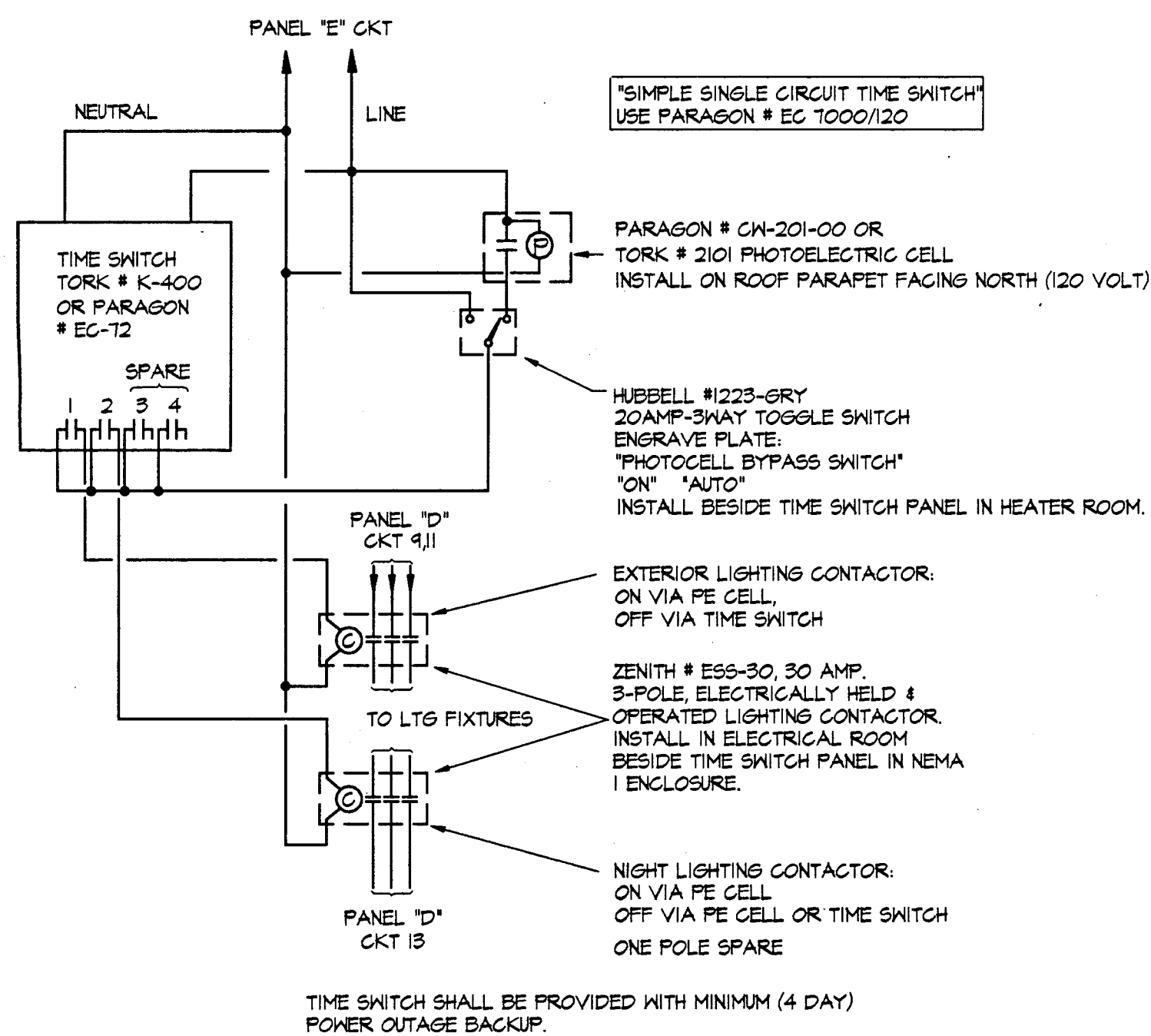


PORT # 1: CATEGORY 5, AT&T RJ45 JACK INSTALLED ON FACE PLATE "KP2162"
PORT # 2: CATEGORY 5, AT&T RJ45 JACK INSTALLED ON FACE PLATE "KP2162"

NOTE: PROVIDE COMPLETE FITTING & HOUSING STRAP
& OTHER JACK MOUNTING & ACCESSORIES.

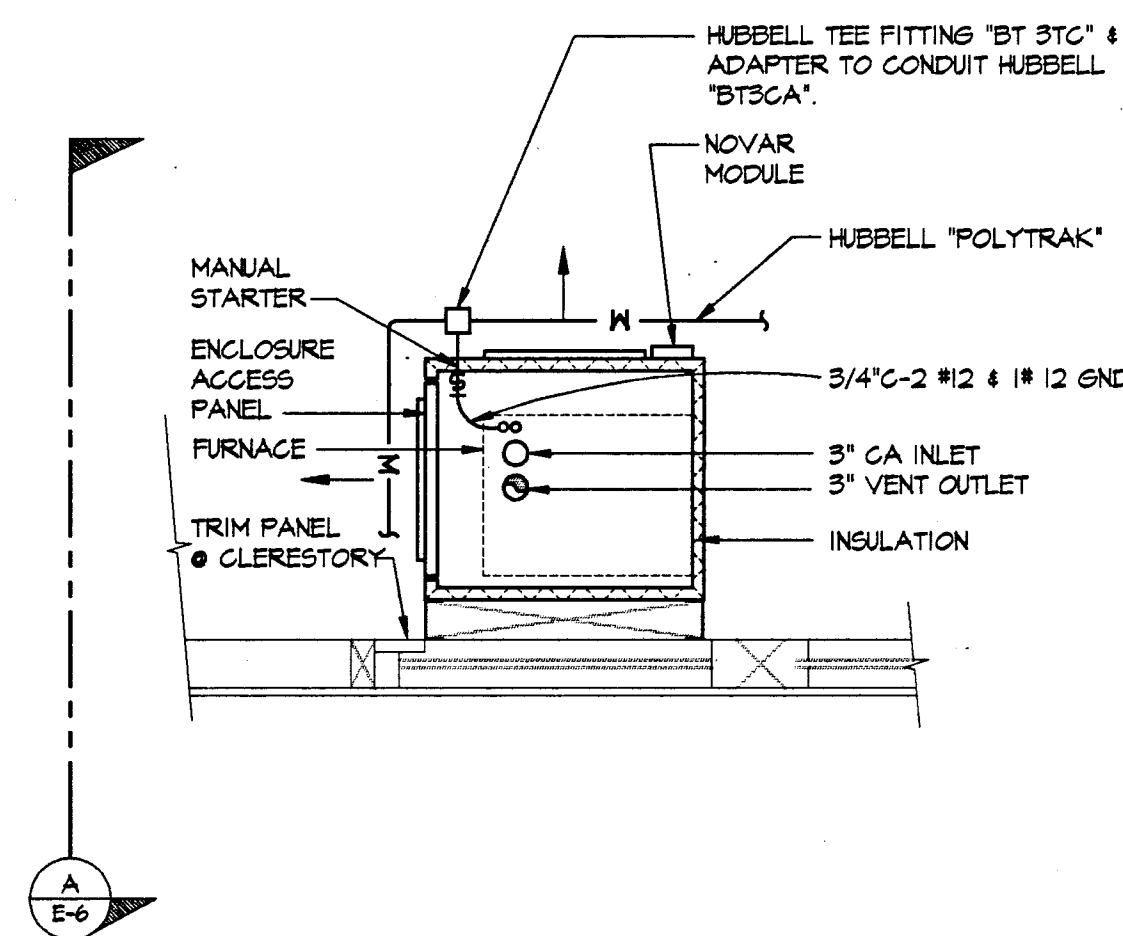
DATA SYSTEMS OUTLET PORT

5
E-6 NOT TO SCALE



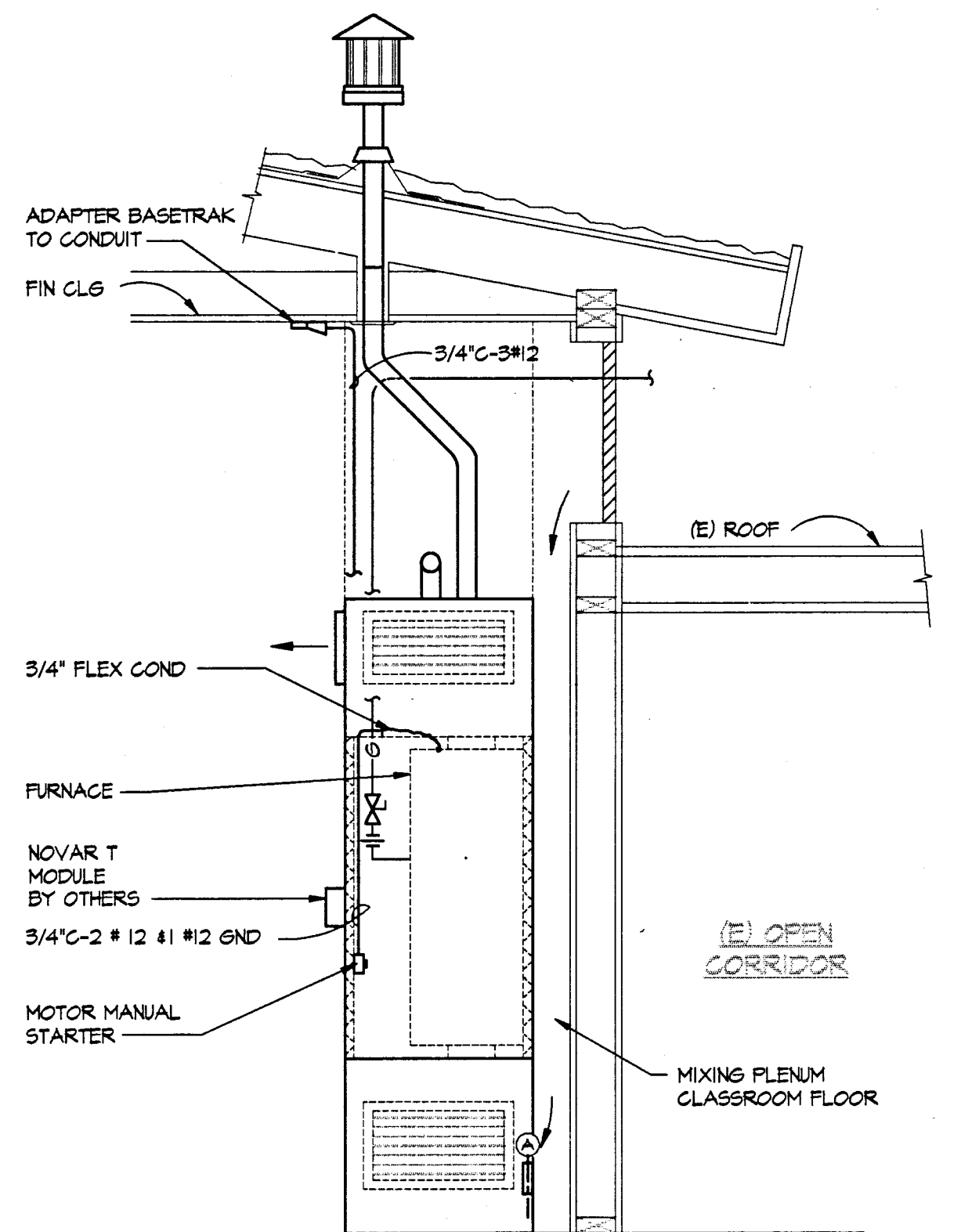
TIME SWITCH WIRING DIAGRAM

6
E-6 NOT TO SCALE



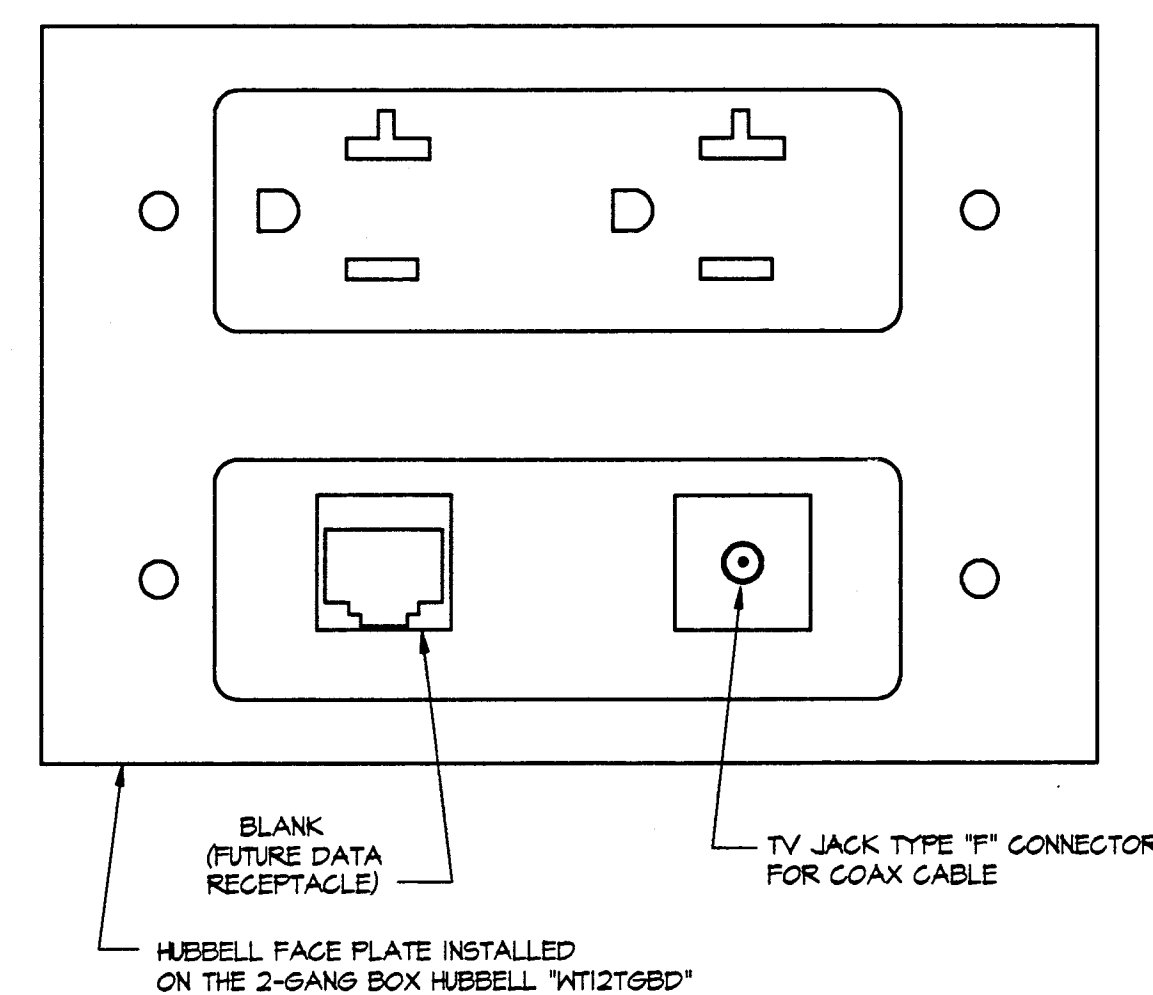
TYP MANUAL STARTER INSTALLATION FOR FURNACE

7
E-6 SCALE: 1/2" = 1'-0"



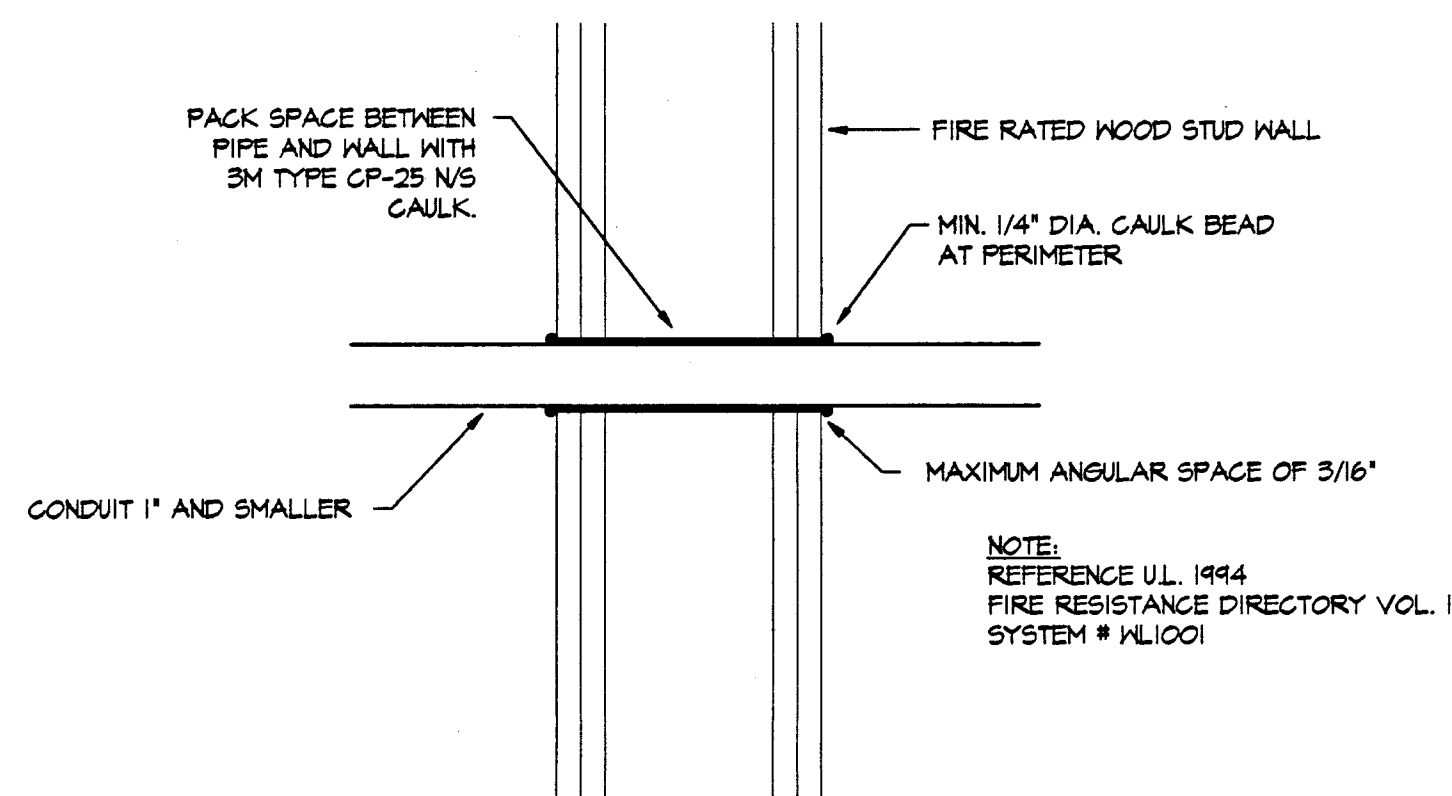
TYP MANUAL STARTER INSTALLATION FOR FURNACE

A
E-6 SCALE: 1/2" = 1'-0"



TV OUTLET PORT

8
E-6 NOT TO SCALE



CONDUIT THROUGH ONE HOUR RATED FIRE WALL

10
E-6 NOT TO SCALE

TYPICAL SURFACE LIGHTING FIXTURE MOUNTING DETAIL

9
E-6 NOT TO SCALE

LIGHTING MANDATORY MEASURES

- ☐ BUILDING LIGHTING SHUT-OFF.
THE BUILDING LIGHTING SHUT-OFF SYSTEM CONSISTS OF AN AUTOMATIC TIME SWITCH, WITH A ZONE FOR EACH FLOOR, OR THE BUILDING IS SEPARATELY METERED AND LESS THAN 5,000 SQUARE FEET, EXEMPT FROM THE SHUT-OFF REQUIREMENTS.
- ☐ OVER RIDE FOR BUILDING LIGHTING SHUT-OFF.
THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL ACCESSIBLE OVER RIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVER RIDE IS NOT TO EXCEED 5,000 SF.
- ☐ AUTOMATIC CONTROL DEVICES CERTIFIED.
ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED. ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.
- ☐ FLUORESCENT BALLASTS AND LUMINAIRES CERTIFIED.
ALL FLUORESCENT FIXTURE SPECIFIED FOR THE PROJECT ARE CERTIFIED AND LISTED IN THE DIRECTORY. ALL INSTALLED FIXTURES SHALL BE CERTIFIED.
- ☒ TANDEM WIRING FOR TWO-LAMP BALLASTS.
ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE TANDEM WIRED WITH TWO (2) LAMP BALLASTS WHERE REQUIRED BY STANDARDS # 152, OR ALL THREE LAMP FLUORESCENT FIXTURES ARE SPECIFIED WITH ELECTRONIC HIGH-FREQUENCY BALLASTS AND ARE EXEMPT FROM TWO-LAMP TANDEM WIRING REQUIREMENTS.
- ☒ INDIVIDUAL ROOM/AREA CONTROLS.
EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CEILING HALLS.
- ☒ UNIFORM REDUCTION FOR INDIVIDUAL ROOMS.
ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 1.2 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH B-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.
- ☐ DAYLIT AREA CONTROL.
ALL ROOMS WITH WINDOWS AND SKYLIGHTS, THAT ARE GREATER THAN 250 SQUARE FEET, AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50% OF THE LAMPS IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH OR THE EFFECTIVE USE OF DAYLIGHT THROUGH OUT THE SPACE CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILDING ON THE ADJACENT LOT. DIAGRAM OF SHADING DURING DIFFERENT TIMES OF YEAR IS INCLUDED ON PLANS.
- ☒ CONTROL OF EXTERIOR LIGHTS.
EXTERIOR MOUNTED FIXTURES AND SERVED FROM THE ELECTRICAL PANEL INSIDE THE BUILDING ARE CONTROLLED WITH A DIRECTIONAL PHOTO CELL CONTROL ON THE ROOF AND A CORRESPONDING RELAY IN THE ELECTRICAL PANEL.

IN ACCORDANCE WITH TITLE 24, SECTION 2336(b) AND TABLE NO. 23-P, DETAILS SHALL BE PROVIDED FOR THE SEISMIC ANCHORAGE OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT. ANCHORAGE DETAILS SHALL BE BASED UPON APPROPRIATE DESIGN CALCULATIONS.

FOR EQUIPMENT WEIGHING 400 POUNDS OR MORE ANCHORAGE DETAILS AND APPROPRIATE DESIGN CALCULATIONS SHALL BE SUBMITTED AS PART OF THE MECHANICAL AND ELECTRICAL DRAWINGS. "DEFERRED APPROVAL" ITEMS WILL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE PLAN CHECK SUPERVISOR.

EXCEPTION: ATTACHMENTS OF EQUIPMENT WEIGHING LESS THAN 400 POUNDS AND SUPPORTED DIRECTLY ON THE FLOOR OR ROOF STRUCTURE, FURNITURE, OR TEMPORARY OR MOVABLE EQUIPMENT AND EQUIPMENT WEIGHING LESS THAN 30 POUNDS THAT IS SUPPORTED BY VIBRATION ISOLATION DEVICES SUSPENDED FROM THE ROOF, WALL OR FLOOR, NEED NOT BE DETAILED ON THE PLANS PROVIDED THE FOLLOWING NOTES ARE INCLUDED ON THE MECHANICAL AND ELECTRICAL PLANS.

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

FIXED EQUIPMENT ON GRADE	20% OF OPERATING HEIGHT
FIXED EQUIPMENT ON STRUCTURE	30% OF OPERATING HEIGHT
EMERGENCY POWER EQUIPMENT ON GRADE	30% OF OPERATING HEIGHT
EMERGENCY POWER EQUIPMENT ON STRUCTURE	40% OF OPERATING HEIGHT

SIMULTANEOUS VERTICAL FORCE - USE 1/3X HORIZONTAL FORCE.

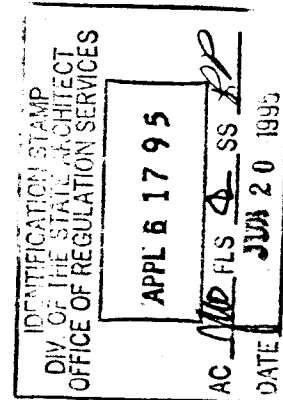
FOR FLEXIBLY MOUNTED EQUIPMENT SEE TITLE 24, SECTION 2336(b)(2).

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT.

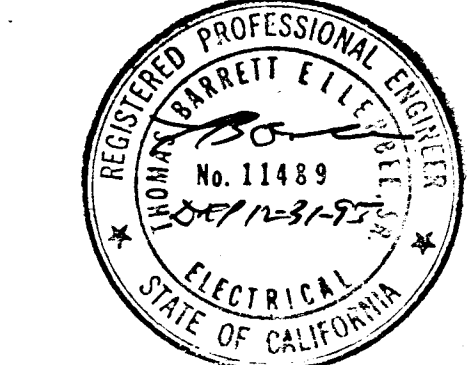
NOTICE:

THIS TABLE HAS BEEN PREPARED FOR AN IMPORTANCE FACTOR OF 1.0 AND FOR SEISMIC ZONE 4. MAKE APPROPRIATE ADJUSTMENT FOR ANY OTHER VALUES.

APPROVALS

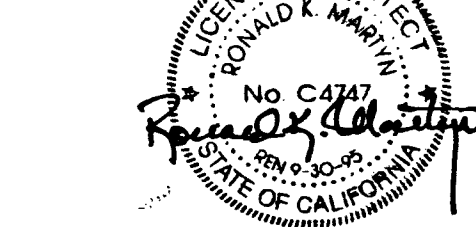


CONSULTANT



MODERNIZATION AT
**HIGHLAND
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FOR THE HAYWARD UNIFIED SCHOOL DISTRICT

ARCHITECT



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SHEET TITLE

ELECTRICAL DETAILS

DATE

6/16/95

DRAWING NUMBER

15

FILE NO.

77-15-3

E-6

SHEET 21 OF 30

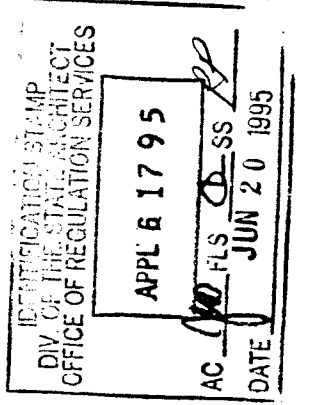
VOLTAGE 208Y/120 AMERICAN CONSULTING ENGINEERS, INC. MAIN C/B H.L.O.									
PHASE 3 WIRE 4 TYPE EXISTING PANEL 74" MOUNTING FLUSH BUSSING 225 AMP									
LOAD	Ø A	Ø B	Ø C	BKR	CK	CK	Ø A	Ø B	Ø C
LIGHTING - ROOM "101"	1.34			20A-1P	1	2	20A-1P	.80	
- ROOM "102"		1.14			3	4			.80
- ROOM "103"			1.14		5	6			.80
- ROOM "104"					7	8			.80
- MISC ROOMS		.75			9	10			.80
- MISC ROOMS			.75		11	12			.80
HEATING FURNACE		1.17			13	14			.80
					15	16			.80
		1.17			17	18			1.00
					19	20			
HEATING VENTILATION - MULTI-PURPOSE		.50		15A	21	22			1.10
			.50		23	24			1.10
(E) RECEPTACLES			1.40	20A-1P	25	26			1.00
					27	28			1.20
SOURCE TO FIRE ALARM CONTROL PANEL		1.00			29	30			1.00
SPACE					31	32			1.00
					33	34			
					35	36			
					37	38			
					39	40			
					41	42			
KVA Ø A	14.55								
KVA Ø B	8.06								
KVA Ø C	9.66								
TOTAL KVA	52.1								
DEMAND KVA									
TOTAL LOAD AMPERES	84.1								

VOLTAGE 208Y/120 AMERICAN CONSULTING ENGINEERS, INC. MAIN C/B									
PHASE 3 WIRE 4 TYPE (E) PANEL 1A" MOUNTING FLUSH BUSSING 100 AMP									
LOAD	Ø A	Ø B	Ø C	BKR	CK	CK	Ø A	Ø B	Ø C
LIGHTING - ROOM "101"	1.20			20A-1P	1	2	20A-1P	1.00	
FURNACE - ROOM "101"		1.15			3	4			1.20
SPARE				20A-1P	5	6			
					7	8			
					9	10			
					11	12			
					13	14			
					15	16			
					17	18			
					19	20			
					21	22			
					23	24			
					25	26			
					27	28			
					29	30			
					31	32			
					33	34			
					35	36			
					37	38			
					39	40			
					41	42			
KVA Ø A	2.20								
KVA Ø B	2.55								
KVA Ø C									
TOTAL KVA	5								
DEMAND KVA									
TOTAL LOAD AMPERES	14								

VOLTAGE 208Y/120 AMERICAN CONSULTING ENGINEERS, INC. MAIN C/B 225A									
PHASE 3 WIRE 4 TYPE (E) PANEL 74" MOUNTING FLUSH BUSSING 225 AMP									
LOAD	Ø A	Ø B	Ø C	BKR	CK	CK	Ø A	Ø B	Ø C
LIGHTING - ROOM "104"	1.14			20A-1P	1	2	20A-1P	.80	
- ROOM "101"		1.14			3	4			1.00
- ROOM "102"			1.14		5	6			1.00
- MISC ROOMS		.75			7	8			.80
CORRIDOR LIGHTING		1.20			9	10			.80
CORRIDOR LIGHTING			1.20		11	12			.80
NIGHT LIGHTING		.75			13	14			1.20
FURNACE - ROOM "104"		.87			15	16			1.20
- ROOM "101"			.87		17	18			1.20
- ROOM "102"					19	20			1.20
WATER HEATER		1.20		20A	21	22			1.20
WATER HEATER			1.20		23	24			1.20
SPARE					25	26			
					27	28			
					29	30			
SPACE					31	32			
					33	34			
					35	36			
					37	38			
					39	40			
					41	42			
KVA Ø A	4.60								
KVA Ø B	6.01								
KVA Ø C	6.01								
TOTAL KVA	17								
DEMAND KVA									
TOTAL LOAD AMPERES	47								

VOLTAGE 208Y/120 AMERICAN CONSULTING ENGINEERS, INC. MAIN C/B									
PHASE 3 WIRE 4 TYPE (E) PANEL 15" MOUNTING FLUSH BUSSING									
LOAD	Ø A	Ø B	Ø C	BKR	CK	CK	Ø A	Ø B	Ø C
LIGHTING - MULTI PURPOSE AREA	.846			20A-1P	1	2	20A-1P	.80	
		.846			3	4			.80
			.846		5	6			.80
(E) 1ST BORDER LIGHTS	1.20				7	8			1.20
(E) 1ST BORDER SPOTS		1.20			9	10			1.20
(E) 2ND BORDER LIGHTS			1.20		11	12			1.20
(E) 2ND BORDER SPOTS		1.20			13	14			1.20
EXIT LIGHTS - MULTI PURPOSE		.40			15	16			.80
(E) LTS - MUSIC AREA			.40		17	18			.80
(E) LTS - MUSIC AREA					19	20			.80
(E) RECEPTACLES		1.00			21	22			1.60
SPARE					23	24			
					25	26			
					27	28			
					29	30			
					31	32			
					33	34			
					35	36			
					37	38			
					39	40			
					41	42			
KVA Ø A	1.81								
KVA Ø B	1.66								
KVA Ø C	4.60								
TOTAL KVA	20								
DEMAND KVA									
TOTAL LOAD AMPERES	55.6								

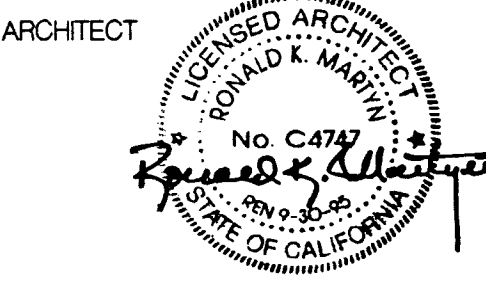
APPROVALS



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SHEET TITLE
ELECTRICAL
PANEL SCHEDULES

DATE
6/16/95
FILE NO.
77-15-3
DRAWING NUMBER
15
E-7
SHEET 30 OF 30

ASSOCIATED ARCHITECTS - 494 HAWTHORNE AVENUE - OAKLAND, CALIFORNIA 94609 - (510) 428-9448