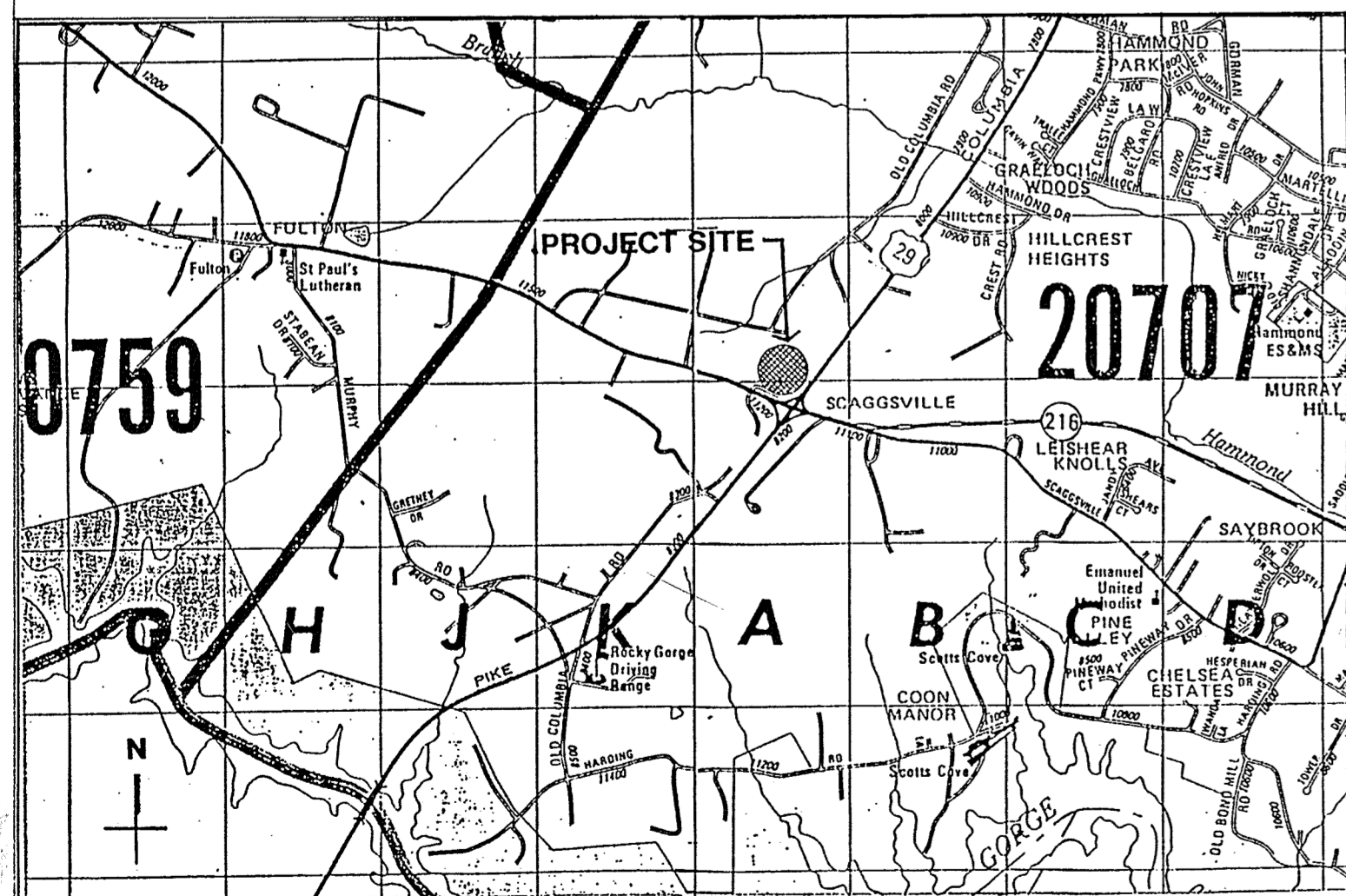


AS BUILT DRAWING



THE HOWARD COUNTY
PUBLIC SAFETY COMPLEX.
SCAGGSVILLE ANNEX
11226 RT 216, LAUREL MD.

CAPITAL PROJECT NO. C - 0227



LOCATION MAP 1" = 2000' - 0



DRAWING INDEX

COVER SHEET

CIVIL DRAWINGS:

- C-1.1 EXISTING CONDITIONS
- C-2.1 DEMOLITION PLAN
- C-3.1 LAYOUT PLAN
- C-4.1 SITE DEVELOPMENT PLAN
- C-4.2 SITE PLAN
- C-4.3 DRAINAGE AREA MAP
- C-5.1 SEWER LINE PROFILE
- C-6.1 WATER MAIN & STORM DRAIN PROFILES
- C-7.1 STORM DRAIN PROFILES
- C-8.1 EROSION & SEDIMENT CONTROL PLAN
- C-9.1 EROSION & SEDIMENT CONTROL DETAILS
- C-10.1 FUEL PUMP CANOPY

C 4.4 REVISED SANITARY SEWER AND STORMDRAIN PLAN
C 5.2 REVISED STORMDRAIN AND SANITARY SEWER PROFILE

L-1.1 LANDSCAPE PLAN

ARCHITECTURAL:

- A-1.1 ABBREVIATIONS & SYMBOLS
- A-1.2 SITE PLAN AND DETAILS
- A-1.3 DETAILS
- A-2.1 FIRST FLOOR PLAN-FIRE STATION
- A-2.2 FIRST FLOOR PLAN-POLICE STATIONS
- A-3.1 ELEVATIONS
- A-3.2 ELEVATIONS
- A-3.3 ELEVATIONS
- A-4.1 ROOF PLAN-FIRE STATION
- A-4.2 ROOF PLAN-POLICE STATION
- A-5.1 BUILDING SECTIONS
- A-5.2 BUILDING SECTIONS
- A-6.1 WALL SECTIONS
- A-6.2 WALL SECTIONS
- A-6.3 WALL SECTIONS
- A-7.1 DETAIL PLANS-FIRE STATION
- A-7.2 DETAIL PLANS-POLICE STATION
- A-7.3 DETAILS
- A-7.4 DETAILS PLANS
- A-7.5 DETAILS
- A-7.6 DETAILS
- A-8.1 REFLECTED CEILING PLAN-FIRE STATION
- A-8.2 REFLECTED CEILING PLAN-POLICE STATION
- A-9.1 DOOR SCHEDULE-DETAILS FIRE STATION
- A-9.2 DOOR SCHEDULE-DETAILS POLICE STATION PHASE 1
- A-9.3 DOOR SCHEDULE-DETAILS POLICE STATION PHASE 1&2

STRUCTURAL:

- S-1.1 PARTIAL FOUNDATION PLAN
- S-1.2 PARTIAL FOUNDATION PLAN
- S-2.1 PARTIAL ROOF FRAMING PLAN
- S-2.2 PARTIAL ROOF FRAMING PLAN
- S-3.1 GENERAL NOTES AND SCHEDULES
- S-3.2 SECTIONS AND DETAILS
- S-3.3 SECTIONS AND DETAILS
- S-3.4 SECTIONS AND DETAILS
- S-3.5 SECTIONS AND DETAILS
- S-3.6 SECTIONS AND DETAILS

MECHANICAL:

- M-1.1 MECHANICAL GEN. NOTES, SYMBOLS, ABBR.
- M-2.1 SITE PLAN - PHASE 1
- M-3.1 FIRST FLOOR PLAN-PIPING FIRE STATION
- M-3.2 FIRST FLOOR PLAN-PIPING POLICE STATION
- M-4.1 FIRST FLOOR PLAN-HVAC FIRE STATION
- M-4.2 FIRST FLOOR PLAN-HVAC POLICE STATION
- M-5.1 SECTIONS-FIRE STATION
- M-5.2 SECTIONS-POLICE STATION PHASE 1
- M-6.1 PART PLANS-PLUMBING FIRE STATION
- M-6.2 PART PLANS-PLUMBING POLICE STATION PHASE 1
- M-7.1 WATER RISER DIAGRAMS
- M-7.2 SANITARY RISER DIAGRAMS - FIRE AND POLICE STATION
- M-8.1 PART PLANS-MECHANICAL ROOM
- M-8.2 SECTIONS-MECHANICAL ROOM
- M-9.1 AUTOMATIC TEMPERATURE CONTROL DIAGRAM
- M-10.1 DETAILS
- M-10.2 DETAILS
- M-10.3 DETAILS
- M-11.1 SCHEDULES-PHASE 1

- FP-1.1 FIRST FLOOR PLAN-SPRINKLER FIRE STATION
- FP-1.2 FIRST FLOOR PLAN-SPRINKLER POLICE STATION PHASE 1

ELECTRICAL:

- E-0 ELECTRICAL-GEN. NOTES AND LEGEND
- E-1.1 SITE PLAN-REMOVAL WORK
- E-1.2 SITE PLAN-PHASE 1
- E-2.1 FIRST FLOOR PLAN-POWER FIRE STATION
- E-2.2 FIRST FLOOR PLAN-POWER POLICE STATION PHASE 1
- E-3.1 FIRST FLOOR PLAN-LIGHTING FIRE STATION
- E-3.2 FIRST FLOOR PLAN-LIGHTING POLICE STATION PHASE 1
- E-4.1 SPECIAL SYSTEMS-FIRE STATION
- E-4.2 SPECIAL SYSTEMS-POLICE STATION PHASE 1
- E-5.1 ROOF PLAN-LIGHTING PROTECTION
- E-6.1 ONE LINE DIAGRAM-POWER
- E-6.2 ONE LINE FDAS, PAGING AND CCTV SYSTEMS
- E-7.1 PART PLANS
- E-7.2 MCC AND LIGHTING FIXTURES
- E-8.1 DETAILS
- E-8.2 DETAILS
- E-8.3 DETAILS
- E-9.1 PANEL BOARD SCHEDULES
- E-9.2 PANEL BOARD SCHEDULES

COVER SHEET

1 OF 90

ARCHITECTURAL TECHNOLOGIES INC.
Architects and Construction Consultants
9192 Red Branch Rd. Suite 300
Columbia MD. 21045 (301) 995-4067

IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING

REG. SEAL:

[Signature]

No.	REVISIONS	DATE
1	REVISE THE PLAN TO SHOW ROOFTOP SOLAR PANEL INSTALLATION, THE EXISTING FACILITIES ON THE SITE AND EXISTING BUILDING CONFIGURATION	6-9-21

HOWARD COUNTY
PUBLIC SAFETY COMPLEX
SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD. 20707

CAPITAL PROJECT NO. C - 0227
DATE: 3/25/92
DRAWING NO. COVER

1650

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT.

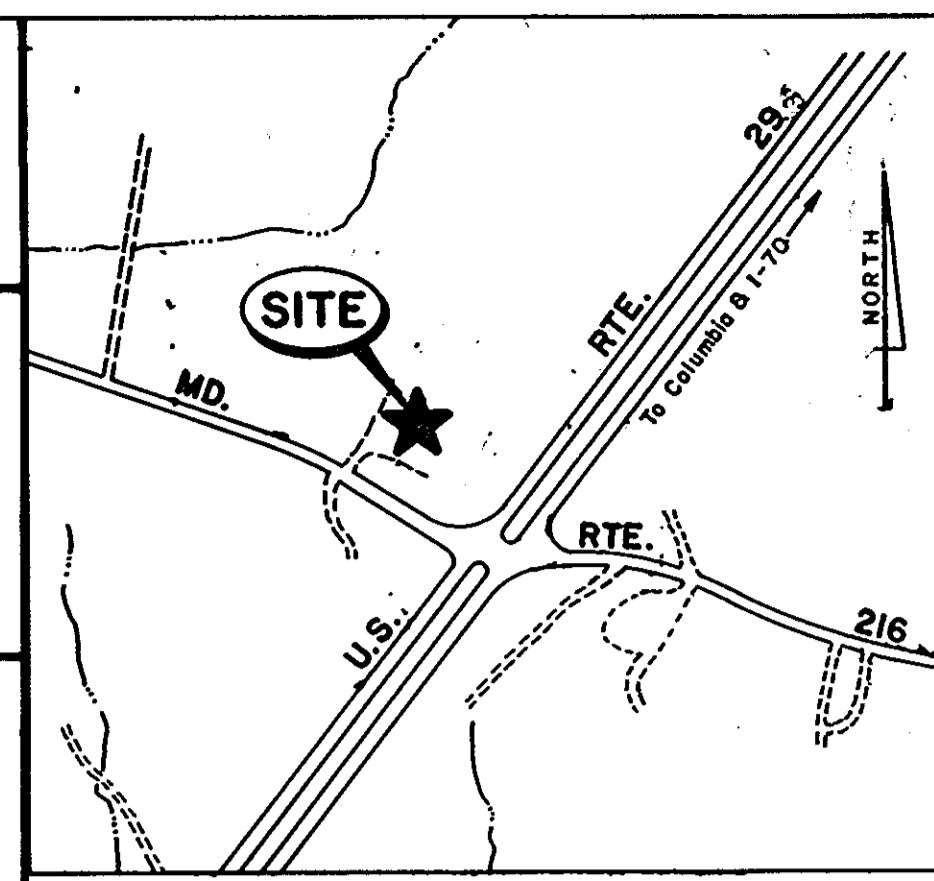
John Beale 2-27-92
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

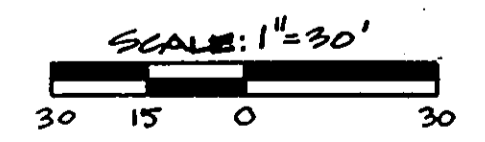
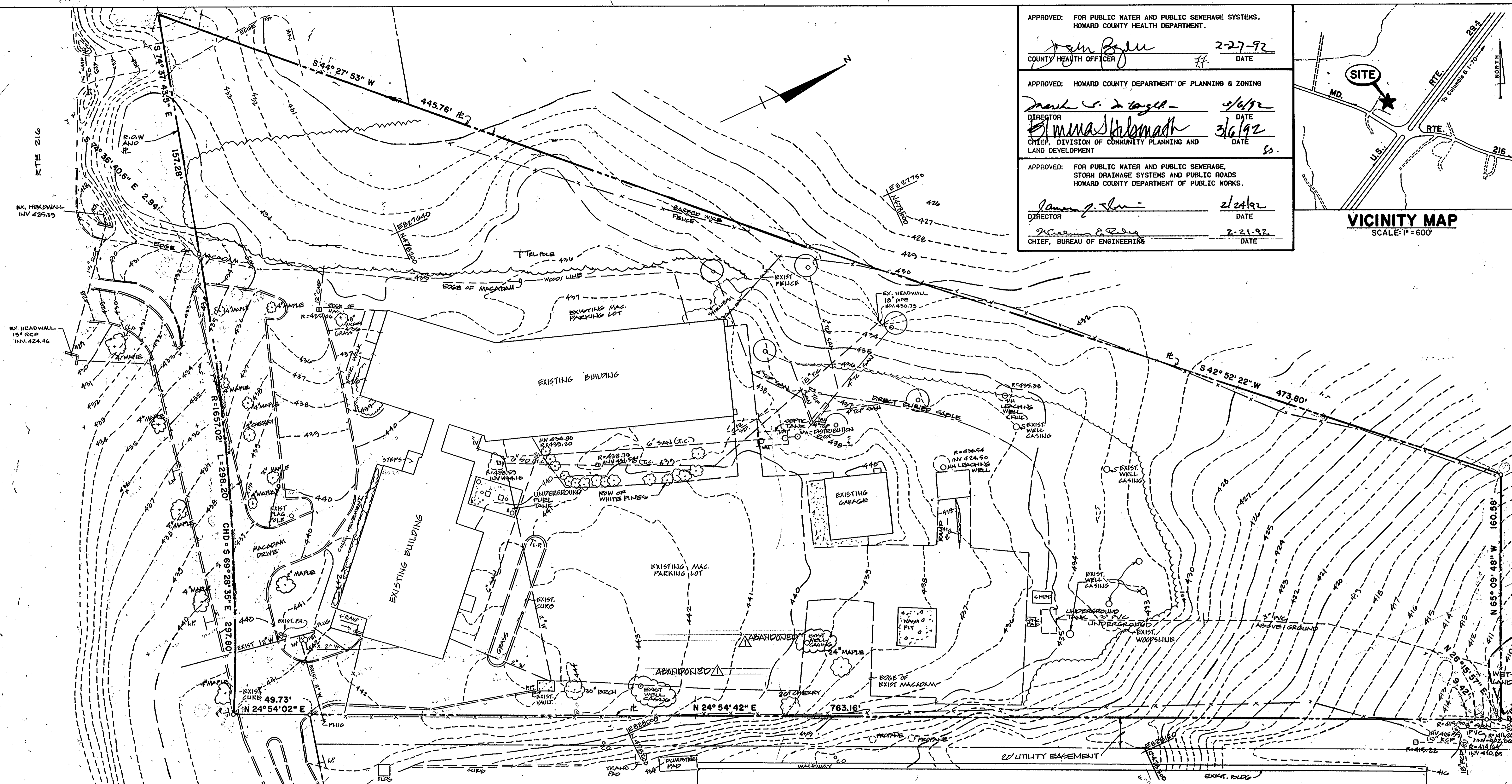
Mark S. Doughty 4/6/92
DIRECTOR DATE
Elmira Holmash 3/6/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

James J. Shu 2/24/92
DIRECTOR DATE
William E. Davis 2-21-92
CHIEF, BUREAU OF ENGINEERING DATE



VICINITY MAP
SCALE: 1" = 600'

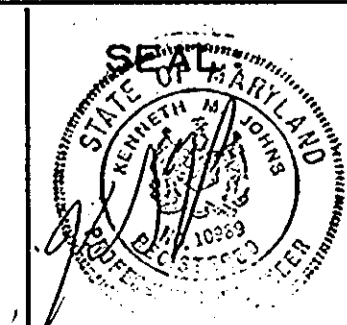


REVISIONS	
AS BUILT	11/28/94

EXISTING CONDITIONS	2 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 2-20-92 DRAWING NO. C-1.1

ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia, MD, 21045 (301)995-4067

IN ASSOCIATION WITH:
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 STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
 FIRE PROTECTION ENGINEER: STANTON ENGINEERING



1650

REMOVAL NOTES:

- 1 REMOVE LEACHING WELL AND BACKFILL WITH SPECIFIED MATERIAL.
- 2 REMOVE AND RELOCATE UNDERGROUND TANK. (SEE SITE PLAN FOR NEW LOCATION). REMOVE VAULT.
- 3 REMOVE AND SALVAGE MECHANICAL EQUIPMENT, REMOVE VAULT.
- 4 REMOVE & SALVAGE EXISTING FIRE HYDRANT, PLUG & BUTTRESS.
- 5 CONTRACTOR TO BE RESPONSIBLE TO PROTECT EXISTING WELL CASINGS. IF DAMAGED, THE CONTRACTOR TO RESTORE THE WELL CASINGS AS PER HOWARD COUNTY'S REQUIREMENTS WITHOUT ADDITIONAL COMPENSATION.
- 6 REMOVE HEADWALL.
- 7 REMOVE INLET AND GRATES.
- 8 REMOVE SANITARY MANHOLE AND SALVAGE COVER.
- 9 REMOVE, SALVAGE AND TRANSPLANT (SEE LANDSCAPE PLAN LL1 FOR LOCATION & TREE BURLAP BALLING DETAIL).
- 10 REMOVE SEPTIC TANK AND ALL ITS ACCESSORIES. BACKFILL WITH SPECIFIED MATERIAL.

- 11 REMOVE AND SALVAGE GARAGE STRUCTURE. REMOVE FOUNDATION.
- 12 REMOVE ALL TREES NOT NOTED TO BE SALVAGED.
- 13 REMOVE EXISTING DIRECT BURIAL CABLE. CONTRACTOR TO PROVIDE TEMPORARY POWER TO SHED.
- 14 REMOVE TELEPHONE POLE.
- 15 REMOVE 3" PVC DRAIN FROM UNDERGROUND TANK TO OUTFALL.

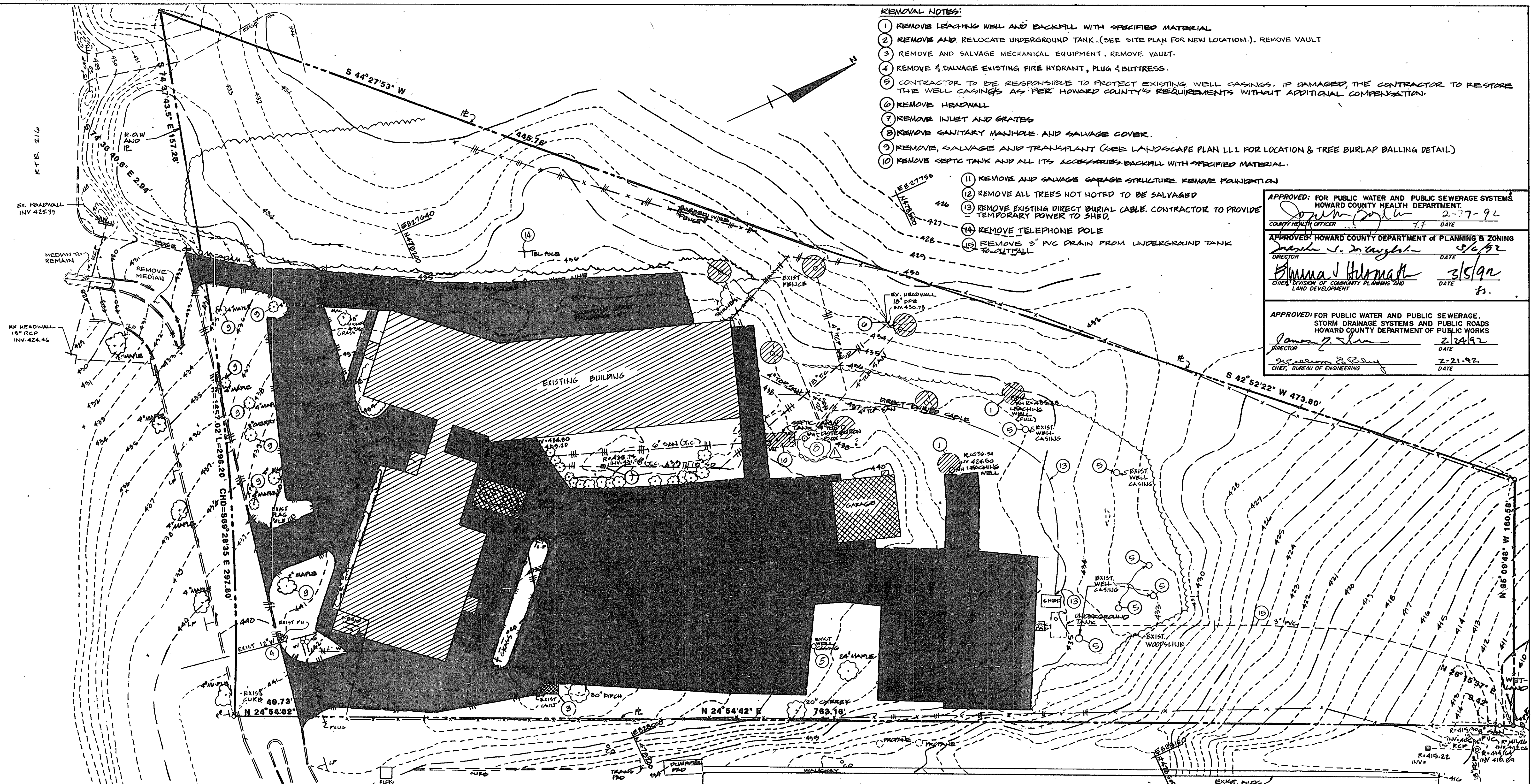
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT.
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 2-27-92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 DIRECTOR: *[Signature]* DATE: 3/6/92

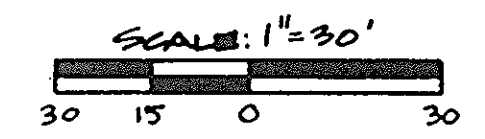
APPROVED: CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 CHIEF: *[Signature]* DATE: 3/5/92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *[Signature]* DATE: 2/24/92

APPROVED: CHIEF, BUREAU OF ENGINEERING
 CHIEF: *[Signature]* DATE: 2-21-92

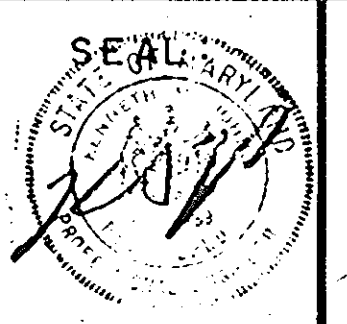


- LEGEND**
- STRUCTURES TO BE REMOVED INCLUDING FOUNDATIONS
 - STRUCTURES TO BE REMOVED, SEE REMOVAL NOTES.
 - CURBS TO BE REMOVED
 - WATER LINE TO BE ABANDONED
 - SANITARY LINE TO BE ABANDONED
 - STORM DRAIN TO BE ABANDONED
 - PAVEMENT TO BE REMOVED
 - FENCE TO BE REMOVED



ARCHITECTURAL TECHNOLOGIES, INC.
 Architects and Construction Consultants
 9192 Red Branch Road, Suite 300
 Columbia, MD, 21045 (301)995-4067

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 STRUCTURAL ENGINEER: GODESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
 FIRE PROTECTION ENGINEER: STANTON ENGINEERING



REVISIONS	
AS BUILT	11/24/94

DEMOLITION PLAN		3 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C-8227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707		DATE: 2-20-92
		DRAWING NO. C-2.1

1650

COORDINATES HEREON ARE BASED ON HOWARD COUNTY HORIZONTAL CONTROL STATION:

2039001	N 477.614.342	E 828108.318	EL. 447.251
2039002	N 477.493.563	E 829043.326	EL. -
2039003	N 477.222.641	E 830705.905	EL. 400.862
2139005	N 481.233.128	E 830424.775	EL. 375.434

CURVE DATA

No.	Δ	Δ/2	Dc.	R	T	L	CH.	DEF (min./ft.)
L-1	84°15'39"	42°07'49.5"	114.35	50.00'	45.23'	73.53'	67.08'	34.37746771
L-2	76°24'14.5"	38°12'07.3"	114.35	50.00'	39.35'	66.68'	61.84'	34.37746771
L-3	103°35'45.5"	51°47'52.7"	114.35	50.00'	63.53'	90.40'	78.58'	34.37746771
L-4	68°23'35"	34°11'47.5"	114.35	50.00'	38.98'	59.68'	56.20'	34.37746771
L-5	56°41'32.3"	28°20'46.2"	114.35	50.00'	26.97'	49.47'	47.48'	34.37746771
L-6	90°00'00"	45°00'00"	344.07	16.65'	16.65'	26.16'	23.55'	103.23563888
L-7	81°34'54.2"	40°47'27.1"	954.55	6.00'	5.18'	8.54'	7.84'	286.4788976
C-9	90°00'00"	45°00'00"	190.59	30.00'	30.00'	41.12'	42.43'	57.29577952
C-4	81°57'55"	44°58'47.5"	21.97	15.00'	14.91'	23.55'	21.21'	

COORDINATES

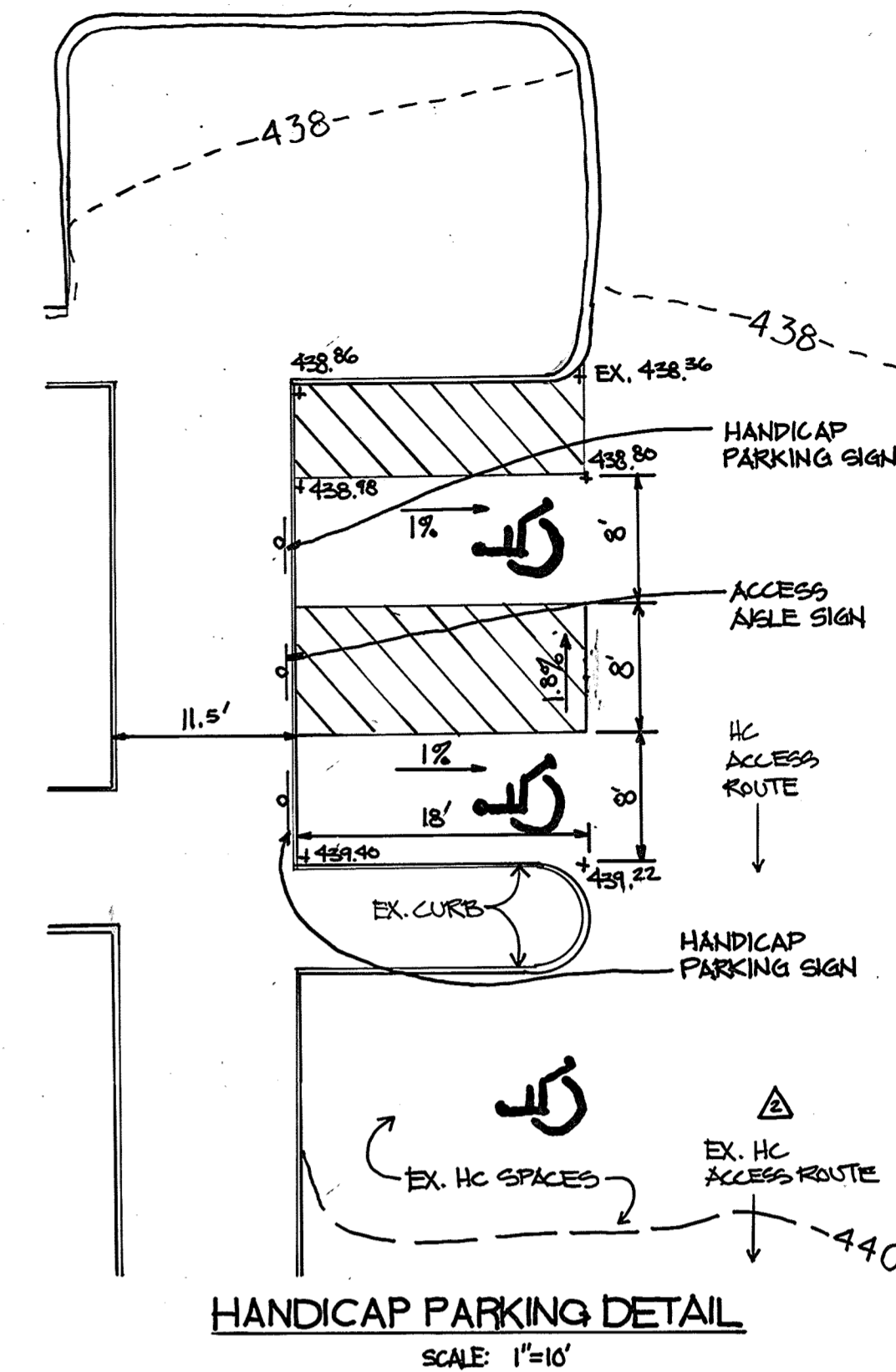
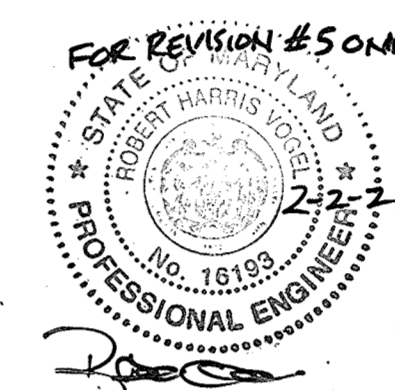
PT. No.	NORTH	EAST	DESCR.
10	478,002.112	827,867.420	BLD. 'A'
11	478,500.940	828,099.091	BLD. 'A'
12	477,997.895	827,633.918	BLD. 'B'
13	478,587.418	827,907.711	BLD. 'B'
14	478,076.501	827,841.327	BLDG. CORNER
15	478,111.884	827,765.142	"
16	478,200.766	827,806.422	"
17	478,330.809	827,844.942	"
18	478,422.412	827,887.486	"
19	478,375.796	827,987.859	"
20	478,166.383	827,882.606	"
21	478,120.035	827,861.545	"

NOTES:

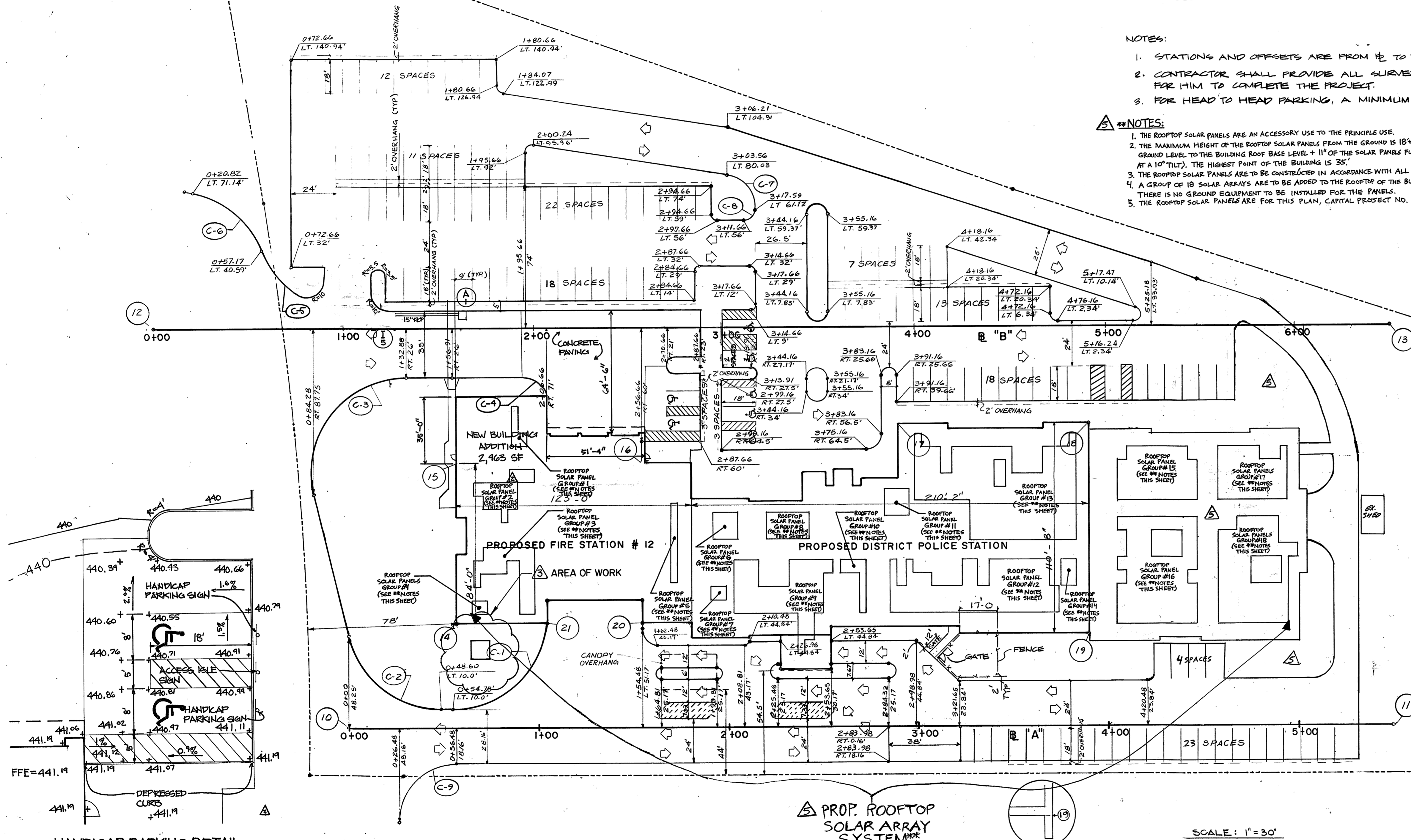
- STATIONS AND OFFSETS ARE FROM 1/2 TO FACE OF CURB
- CONTRACTOR SHALL PROVIDE ALL SURVEY WORKS AS NECESSARY FOR HIM TO COMPLETE THE PROJECT.
- FOR HEAD TO HEAD PARKING, A MINIMUM OF 40' IS REQUIRED.

NOTES:

- THE ROOFTOP SOLAR PANELS ARE AN ACCESSORY USE TO THE PRINCIPLE USE.
- THE MAXIMUM HEIGHT OF THE ROOFTOP SOLAR PANELS FROM THE GROUND IS 18'4" (11' FROM GROUND LEVEL TO THE BUILDING ROOF BASE LEVEL + 11" OF THE SOLAR PANELS FULLY EXTENDED AT A 10° TILT). THE HIGHEST POINT OF THE BUILDING IS 35'.
- THE ROOFTOP SOLAR PANELS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH ALL SETBACKS.
- A GROUP OF 18 SOLAR ARRAYS ARE TO BE ADDED TO THE ROOFTOP OF THE BUILDING.
- THERE IS NO GROUND EQUIPMENT TO BE INSTALLED FOR THE PANELS.
- THE ROOFTOP SOLAR PANELS ARE FOR THIS PLAN, CAPITAL PROJECT NO. C-0227.



HANDICAP PARKING DETAIL
SCALE: 1"=10'



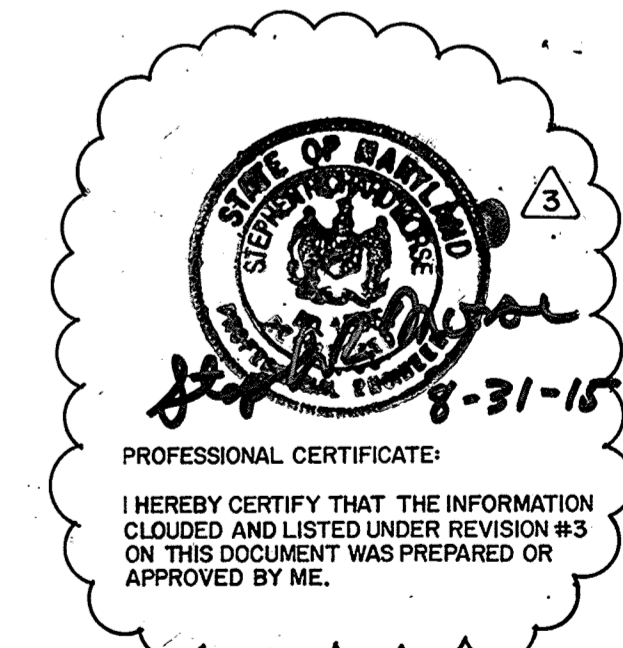
HANDICAP PARKING DETAIL
SCALE: 1"=10'

THIS SHEET WAS MODIFIED TO INCLUDE THE RAINWATER HARVESTING FACILITIES DESIGN INFORMATION. REFER TO THE SOUTH COUNTY RAINWATER HARVESTING AND WASH PAD DESIGN PACKAGE, CAPITAL PROJECT C-0313, ORIGINALLY DATED APRIL 2015, (LATEST REVISION).

NORTH EAST BLDG CORNER
N.T.S.

SCALE: 1"=30'

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.	<i>James P. ...</i>	2-27-92
APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING	<i>Mark S. ...</i>	3/6/92
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	<i>James P. ...</i>	2-21-92



ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia, MD, 21045 (301)995-4067

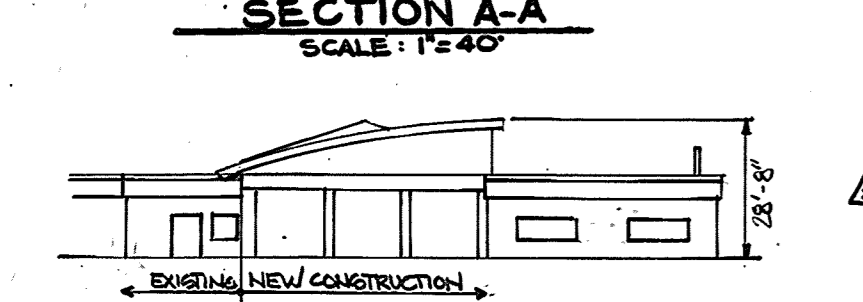
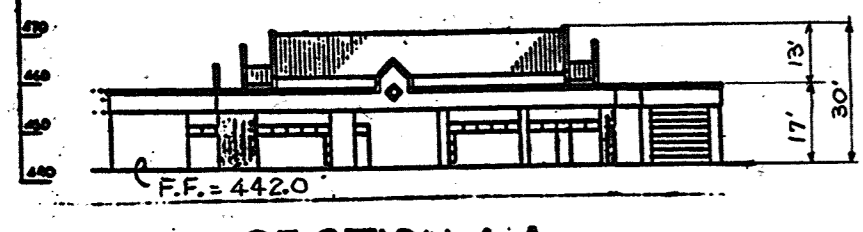
IN ASSOCIATION WITH:
 CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
 STRUCTURAL ENGINEER: GODESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
 FIRE PROTECTION ENGINEER: STANTON ENGINEERING

SEAL:
[Signature]

NO.	REVISION	DATE
1	AS BUILT	11/20/94
2	ADD BLDG. APP. REV. WTR & SWML 7/7/04	
3	REVISION NO. 3: REDLINE REVISIONS - SEE NOTE	

LAYOUT PLAN	4 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C-0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 2-20-92 DRAWING NO. C-3.1

1650



PROPOSED ADDITION ELEVATION
SCALE: 1"=40'
P. 176
HOWARD E. WESSEL, ET. UX.
268 / 361
ZONING: R

NOTES
- LOCATIONS ARE TO CENTER OF STRUCTURES.
- OFFSETS FOR INLETS ARE TO FACE OF CURB

GENERAL NOTES

- 1- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL VOL. II
- 2- CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
- 3- FOR STRUCTURE AND PROPERTY LINE OFFSET DIMENSIONS SEE SHEET C-3.1 (LAYOUT PLAN).
- 4- A BUILDING PERMIT SHALL BE OBTAINED WITHIN 1 YEAR OF THIS RECLINE APPROVAL BY DED FOR THE NEW BUILDING ADDITION.

STRUCTURE		SCHEDULE		REMARKS			
No.	TYPE	@	LOCATION	TOP OF GR/COV	INV IN	INV OUT	
SAN-1	STD. SANITARY MH.	'A'	325' RT. STA. 4+92.50	430.30	424.84	422.71	HO. CO. STD. G 5.01
SAN-2	STD. SANITARY MH.	'A'	12.50' LT. STA. 4+07.00	439.35	429.41	429.21	HO. CO. STD. G 5.01
SAN-3	STD. SANITARY MH.	'A'	12.50' LT. STA. 0+93.88	441.50	435.71	435.41	HO. CO. STD. G 5.01
SD-1	STD. STORM D. MH.	'A'	2.00' LT. STA. 2+78.00	440.00	435.32	434.82	HO. CO. STD. G 5.05
SD-2	STD. STORM D. MH.	'B'	35.00' RT. STA. 6+38.00	434.40	424.91	424.60	HO. CO. STD. G 5.12
I-1	STD. 5 COMB. INLET	'A'	18.16' RT. STA. 2+78.00	439.80	—	—	HO. CO. STD. S.D. 432
I-2	STD. 5 COMB. INLET	'A'	7.50' LT. STA. 5+28.98	434.40	429.82	429.00	SEE DETAIL ON SHEET C-7.1
I-3	STD. 5 COMB. INLET	'B'	50.52' LT. STA. 4+74.00	435.40	426.67	426.67	HO. CO. STD. S.D. 432
I-4	STD. 5 COMB. INLET	'B'	88.77' LT. STA. 3+56.00	434.00	428.32	428.07	HO. CO. STD. S.D. 432
I-5	STD. 5 COMB. INLET	'B'	9.00' LT. STA. 1+26.00	436.80	—	—	HO. CO. STD. S.D. 432
I-6	STD. 5 COMB. INLET	'B'	140.94' LT. STA. 1+75.00	432.60	430.25	430.15	HO. CO. STD. S.D. 432
S-1	STD. SINGLE BRICK 'Y'	'A'	2.00' RT. STA. 3+79.00	439.40	—	—	HO. CO. STD. S.D. 1.11
I-7	STD. 5 COMB. INLET	'A'	18.16' RT. STA. 3+62.50	438.50	—	—	HO. CO. STD. S.D. 432

NOTE: SEE SHEET C-3.1 FOR BASE LINES INFORMATION.

SITE EVALUATION

Area of parcel (Phase I): 5.75 AC. (Gross)
Present zoning: R
Proposed use: Government Facilities
Floor Space: Phase I: 31,203 S.F. = 0.72 AC.
Phase II: 21,811 S.F. = 0.50 AC.
Occupant Load: Phase I: 251
Phase II: 121

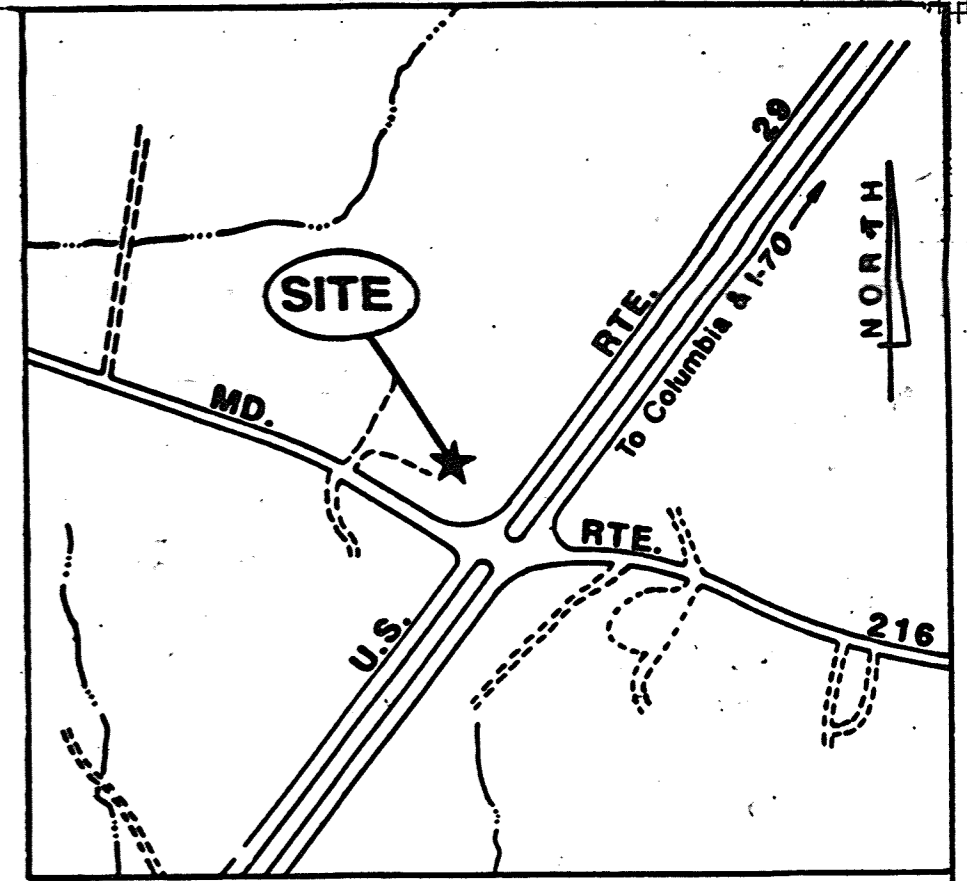
* Number of Parking spaces required:
Phase I: 156
Phase II: 78

Number of Parking spaces provided:
Phase I: 156
Phase II: 78

Green space to remain on site (Phase I): 2.55 AC. and 443.64 of Gross Area
Building coverage of site (Phase I): 0.70 AC. and 12.21 of Gross Area
Paved Parking (Phase I): 2.50 AC. and 43.5% of Gross Area
TOTAL PARKING PROVIDED FOR SITE SHOWN ON THIS PLAN = 156 SPACES (INCLUDES 7% SPACES)
** REFLECTS CHANGES MADE WITH THE ANALYSIS REVISIONS TO GPP-93-66.

Total area of site: 5.75 AC. 2 AC. (±) required
Disturbed area: 5.45 AC. 2.25 AC. (±)
Area to be roofed or paved: 3.20 AC. 2.25 AC. (±)

Area to be vegetatively stabilized: 2.24 AC.
Total Cut: 3,200 Cu. Yd.
Total Fill: 3780 Cu. Yd.
Offsite waste borrow area location: Not Applicable
NOTE: Quantities shown should not be used as a basis for bid.
* PARKING SPACES REQUIRED: 1 SPACE PER 200 S.F. OF FLOOR AREA.



VICINITY MAP
SCALE: 1" = 600'

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 1983 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL OR CURRENT REVISIONS THEREOF, AND DEPARTMENT OF THE ENVIRONMENT STORMWATER MANAGEMENT REGULATIONS.

2/20/92 DATE
DESIGNER'S SIGNATURE
MD REGISTRATION NO. 10989 KENNETH M. JOHNS
(P.E.) R.L.S. OR R.L.A. (CIRCLE) PRINTED NAME

OWNER'S/DEVELOPER'S CERTIFICATION

"I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT, COMPLIANCE INSPECTORS."

2/24/92 DATE
OWNER/DEVELOPER SIGNATURE
CARD NO. PRINTED NAME AND TITLE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT
DATE 2-27-92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
DIRECTOR DATE 2/6/92

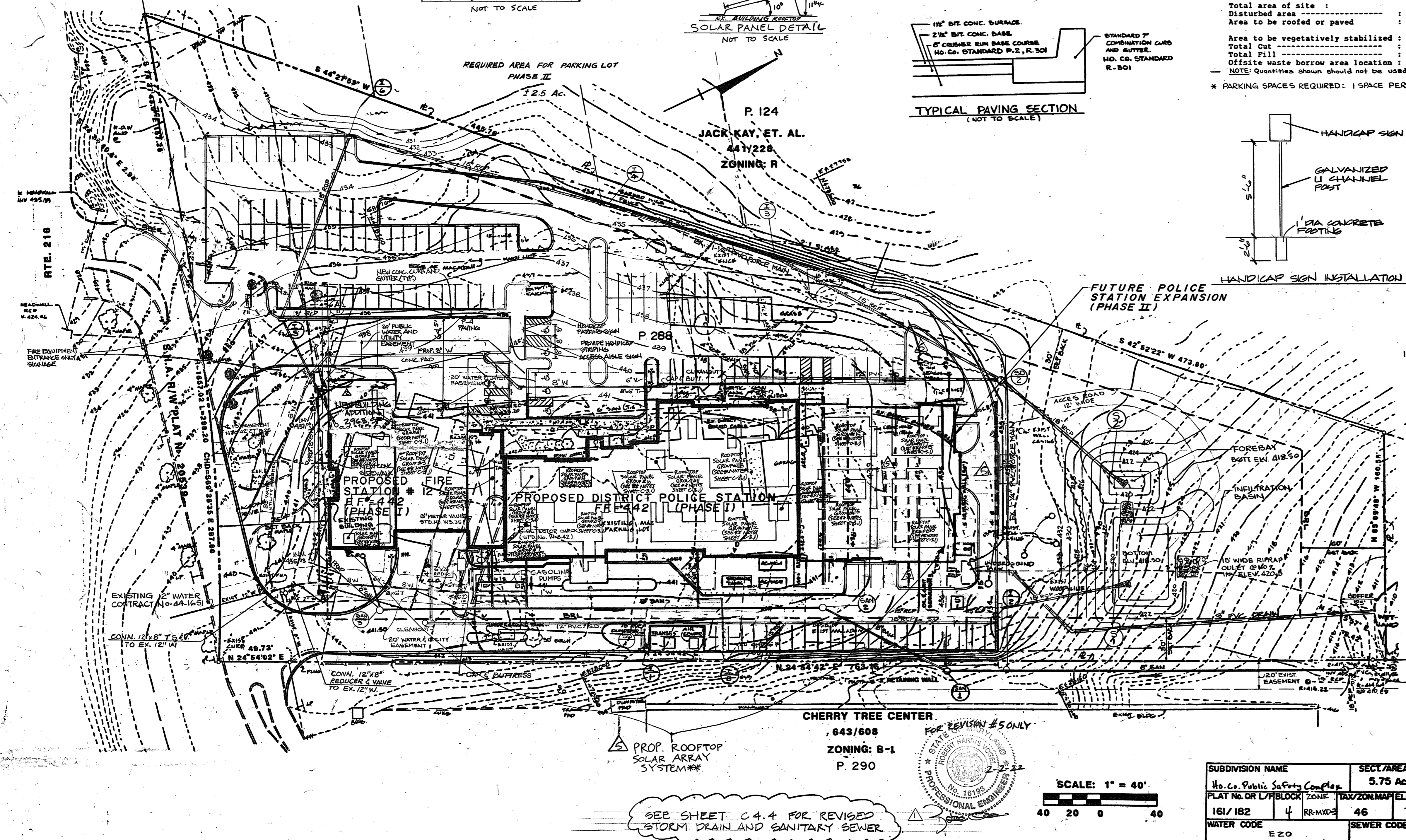
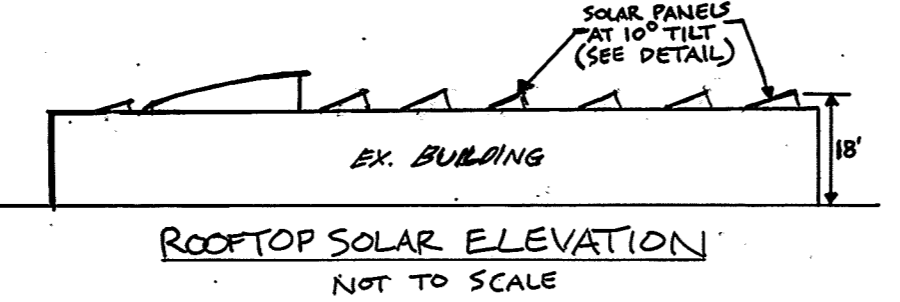
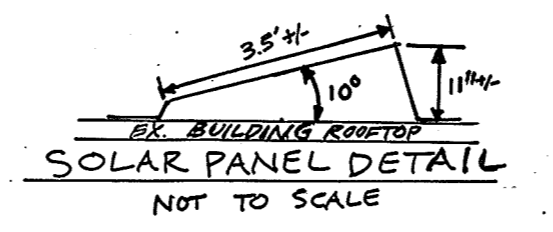
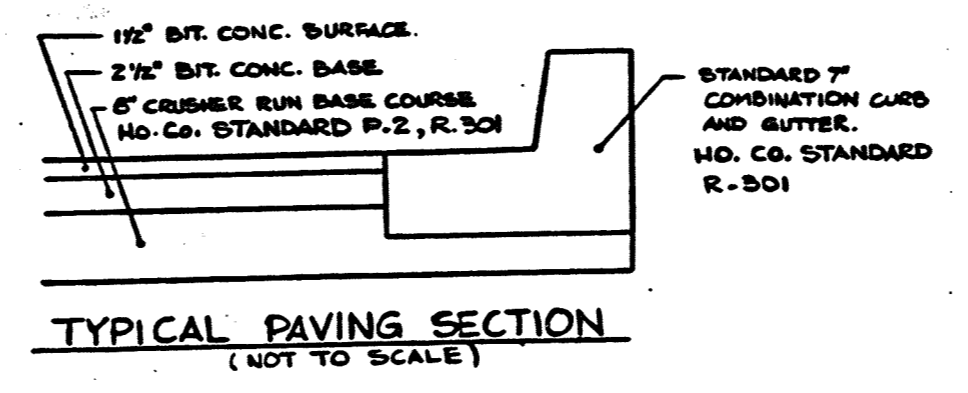
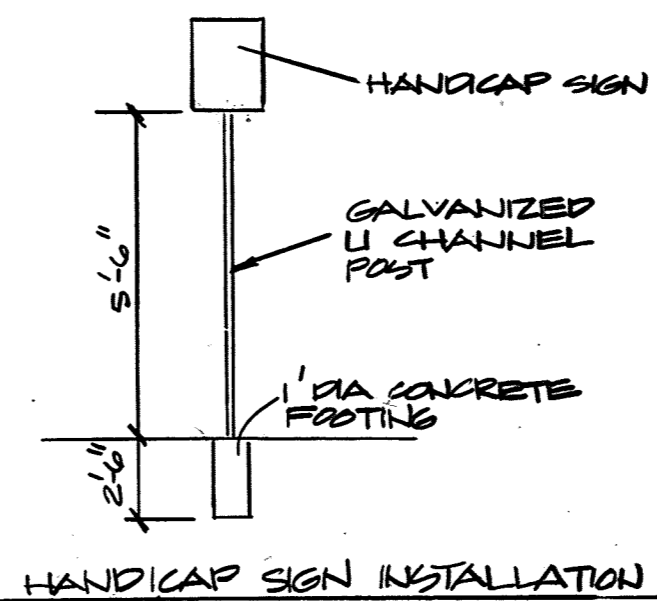
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR DATE 2-24-92

APPROVED: PHILIP M. BROWN
209/1899 ZONING: R
P/O P.I.

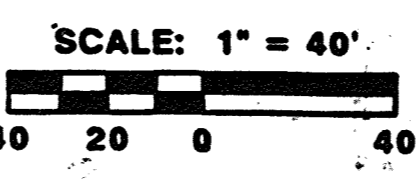
THE DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: HOWARD S.C.D. DATE 2/23/92
REVIEWED FOR HOWARD S.C.D. NAME

AND MEETS TECHNICAL REQUIREMENTS.
JAMES M. HELM
U.S. SOIL CONSERVATION SERVICE
DATE 2/25/92



CHERRY TREE CENTER
643/608
ZONING: B-1
P. 290



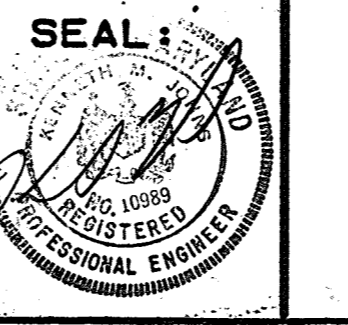
SUBDIVISION NAME	SECT./AREA	LOT/PARCEL
No. Co. Public Safety Comp. Plan	5.75 AC.	P. 288
PLAY NO. OR L/P/BLOCK	ZONE	TAX/ZONING/ELE. DIST. CENSUS TR.
161/182	4 RR-MXD-2	46 5 6051.02
WATER CODE	SEWER CODE	
E 20	7690000	

NO.	REVISIONS	DATE
AS BUILT		1/24/94
ADD BLUE APPOINTMENT, REV. WTR, REV. SDWA		7/7/94
REVISE THE PLAN TO SHOW ROOFTOP SOLAR PANEL INSTALLATION, THE EXISTING FACILITIES ON THE SITE AND EXISTING BUILDING CONFIGURATION		6-9-21

SITE DEVELOPMENT PLAN 5 OF 90
HOWARD COUNTY, PUBLIC SAFETY COMPLEX
SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD. 20707
CAPITAL PROJECT NO. C - 0227
DATE: 2-20-92
DRAWING NO. G-4.1

ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia MD, 21045 (301)995-4067

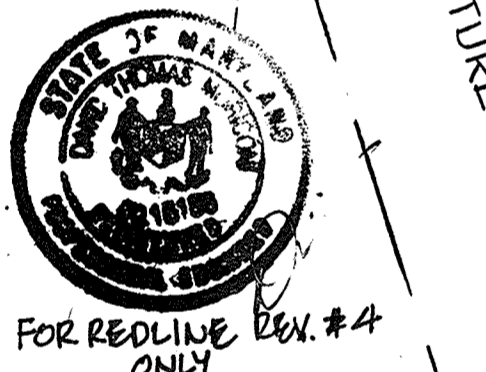
IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: GODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING



SEE SHEET C.4.4 FOR REVISED STORM DRAIN AND SANITARY SEWER

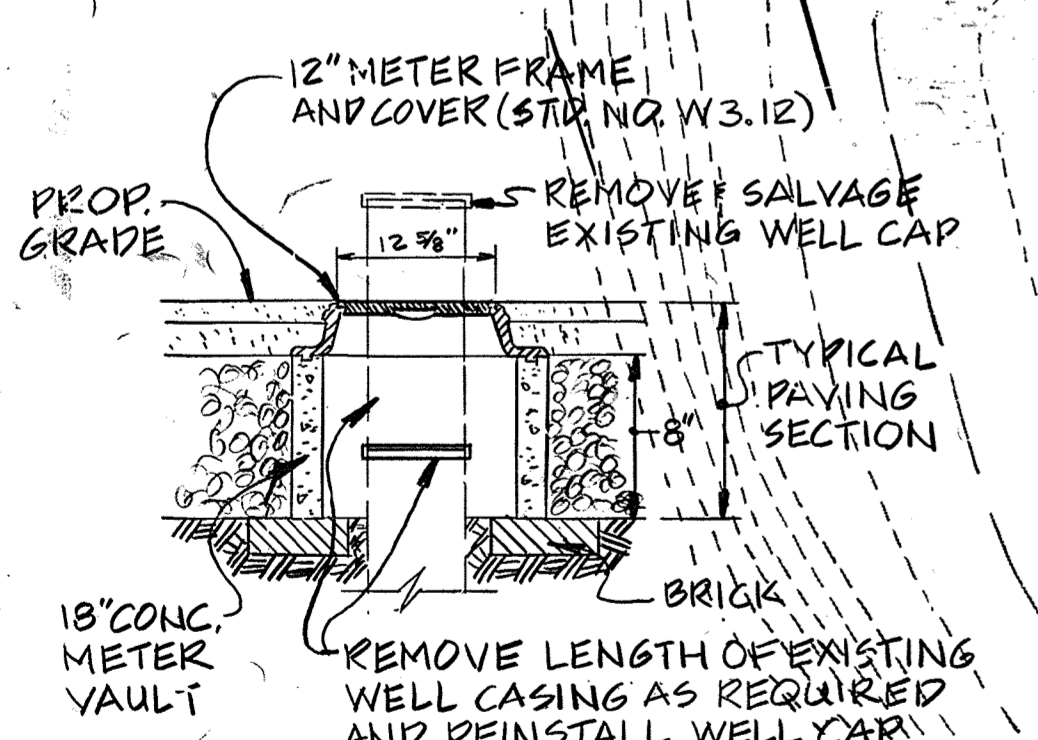


PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THE INFORMATION CLOUDED AND LISTED UNDER REVISION #3 ON THIS DOCUMENT WAS PREPARED OR APPROVED BY ME.



FOR REDLINE REV. #4 ONLY

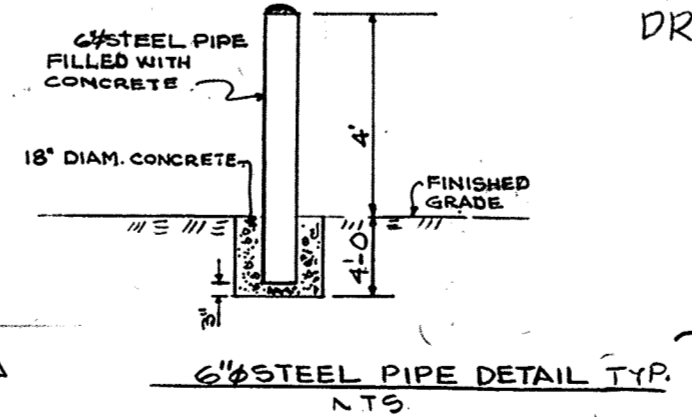
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 16150 Expiration Date: 8/28/2019



WELL CASING PROTECTION DETAIL
NOT TO SCALE

WATER AND SEWER COUNTY CODES	
WATER	1E20
SEWER	7490000

SEE SHEET C-4.4 FOR REVISED STORM DRAIN AND SANITARY SEWER



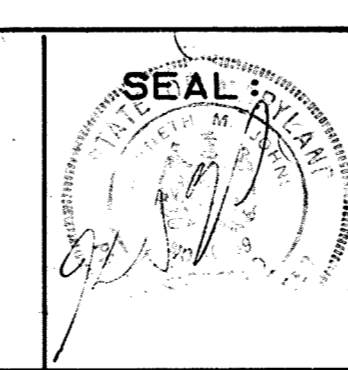
SCALE: 1"=30'

- NOTE:
1. FOR CLARITY, SEE SHEET 3.1 FOR PARKING SPACE COUNT
 2. FOR STRUCTURE DIMENSIONS, SEE SHEET C-3.1 (LAYOUT PLAN)
 3. FOR MORE INFORMATION ABOUT WATER & SEWER LINES, SEE HOWARD COUNTY PUBLIC SAFETY COMPLEX CONTRACT NO. 24-3175.
 4. ROAD LEADING TO CHERRY TREE SHOPPING CENTER CAN NOT BE BLOCKED AT ANY TIME.

NO.	REVISION	DATE
1	REVISE THE PLAN TO SHOW ROOFTOP SOLAR PANEL INSTALLATION, THE EXISTING FACILITIES ON THE SITE AND EXISTING BUILDING CONFIGURATION	6-9-21

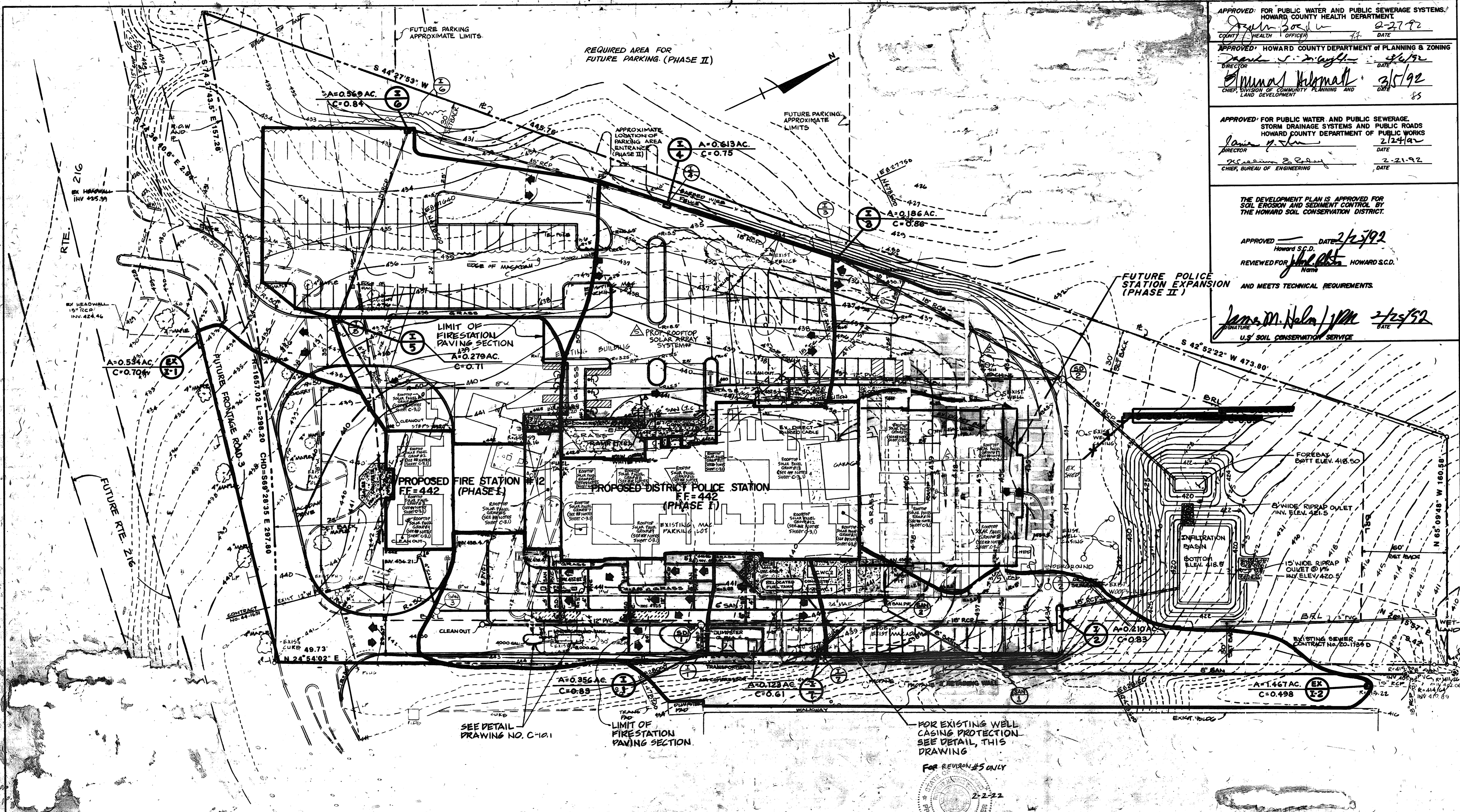
ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia, MD, 21045 (301)995-4067

IN ASSOCIATION WITH:
 CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
 STRUCTURAL ENGINEER: GODESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
 FIRE PROTECTION ENGINEER: STANTON ENGINEERING



REVISIONS	DATE
AS BUILT	11/24/24
ADD BLDG. APP. REV. WTR. & SDWLR. 7/1/09	
REDLINE REVISIONS - SEE NOTE	
REMOVE/REPAIR UNDERGROUND PUL TANKS 6-11-18	

SITE PLAN		6 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		
SCAGGSVILLE ANNEX 11226 ROUTE 216, LAUREL, MD. 20707	CAPITAL PROJECT NO. C-0227	DATE: 2-20-92
		DRAWING NO. C-4.2



APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: *[Signature]* DATE: 2-27-92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 DIRECTOR: *[Signature]* DATE: 2/6/92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: *[Signature]* DATE: 2/24/92

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 CHIEF, BUREAU OF ENGINEERING: *[Signature]* DATE: 2-21-92

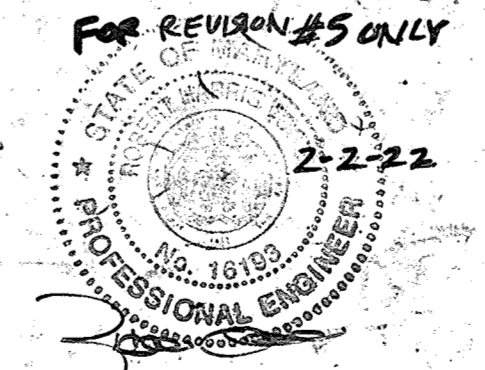
THE DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: *[Signature]* DATE: 2/23/92
 HOWARD S.C.D.

REVIEWED FOR: *[Signature]* HOWARD S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS.

[Signature] DATE: 2/25/92
 U.S. SOIL CONSERVATION SERVICE

WATER AND SEWER COUNTY CODES
 WATER E20
 SEWER 7690000



SCALE: 1"=50'

ARCHITECTURAL TECHNOLOGIES, INC.
 Architects and Construction Consultants
 9192 Red Branch Road, Suite 300
 Columbia, MD, 21045 (301)595-4067

IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
 STRUCTURAL ENGINEER: GODESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
 FIRE PROTECTION ENGINEER: STANTON ENGINEERING

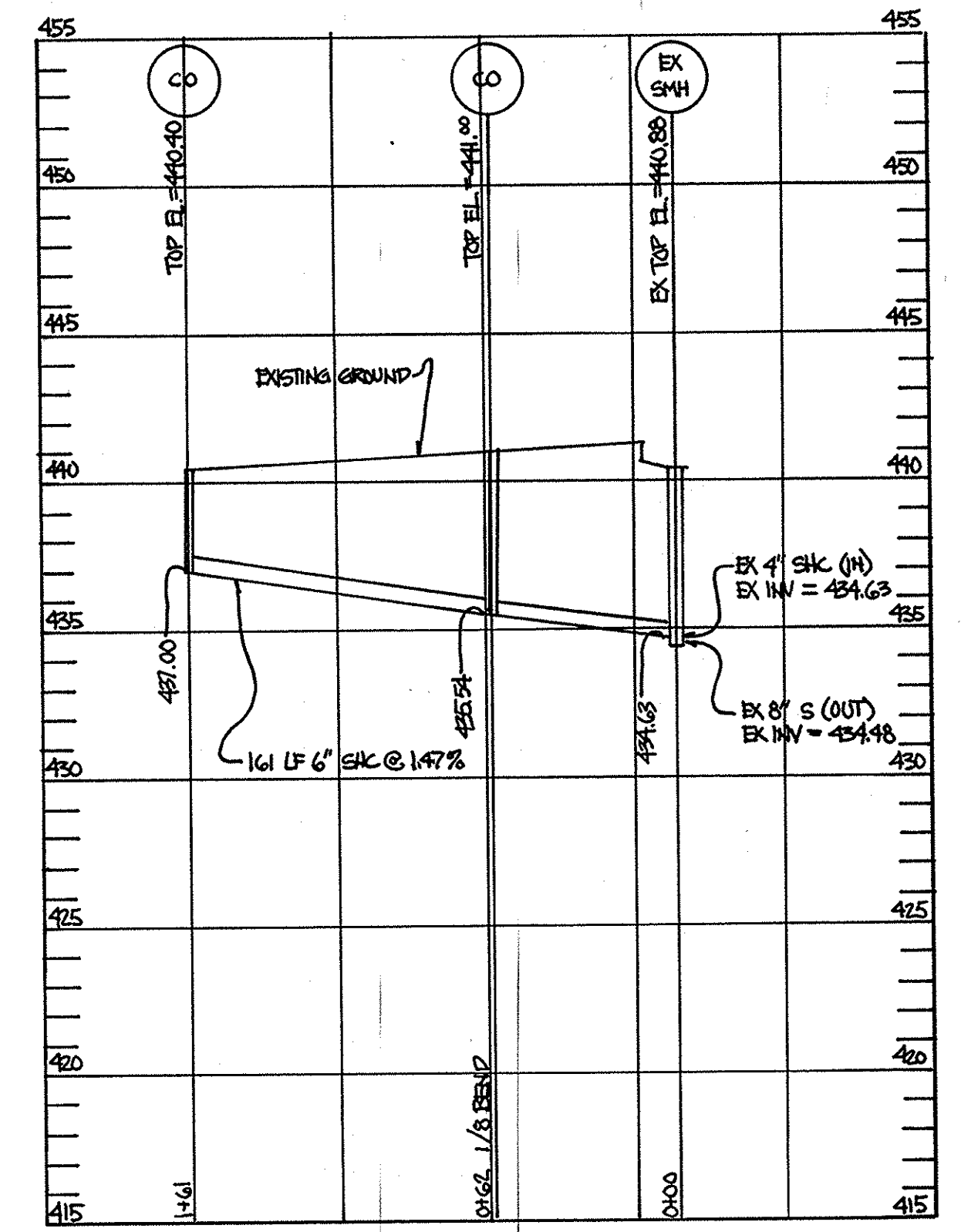


NO.	REVISIONS	DATE
1	AS BUILT	11/24/94
2	REVISE THE PLAN TO SHOW ROOFTOP SOLAR PANEL	6-9-21
3	INSTALLATION THE EXISTING FACILITIES ON THE SITE AND EXISTING BUILDING CONFIGURATION	

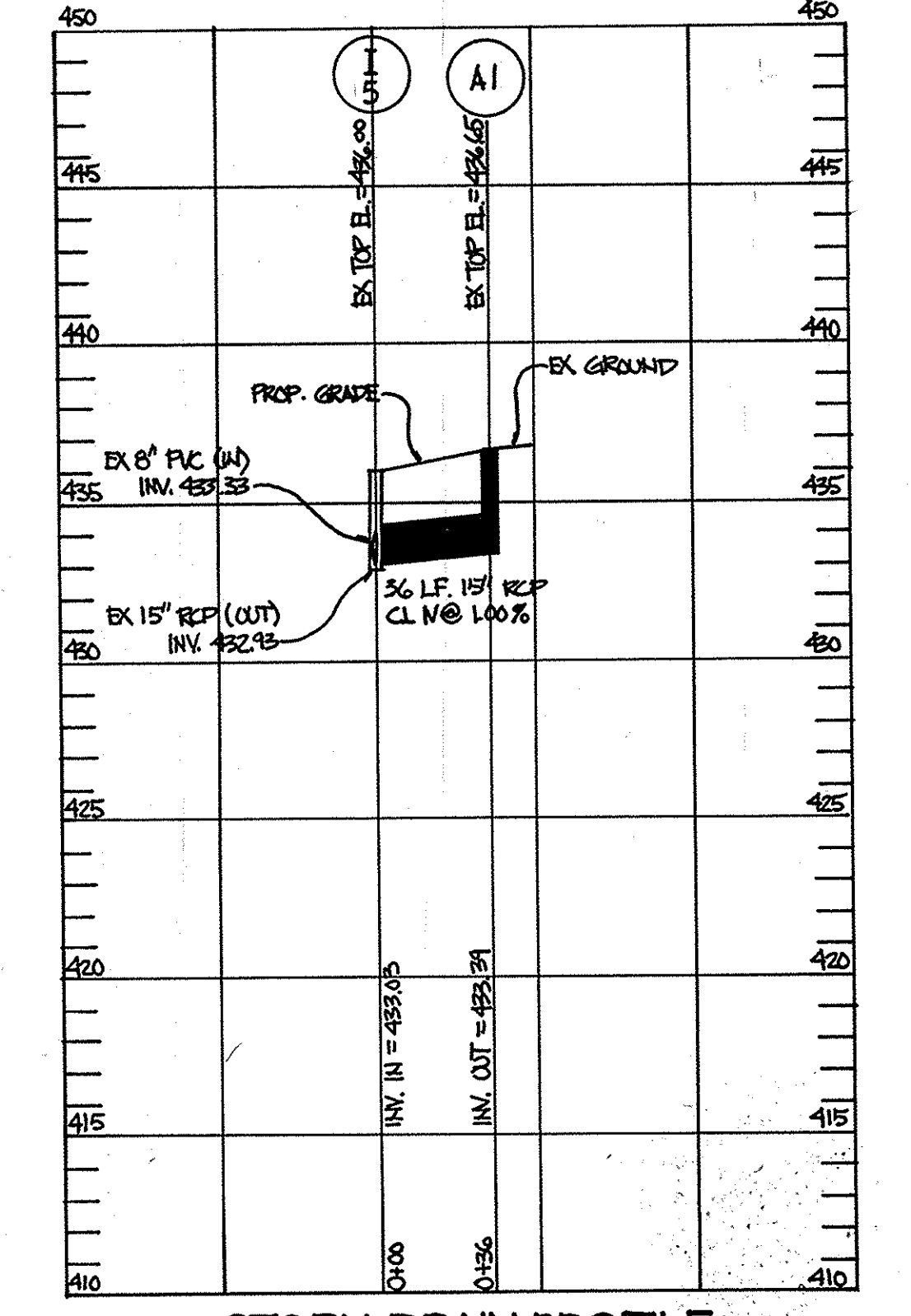
DRAINAGE AREA MAP		7 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C-8227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707		DATE: 2-20-92
		DRAWING NO. C-43

STRUCTURE SCHEDULE						
NUMBER	TYPE	LOCATION		TOP ELEVATION	SIZE	REMARKS
A1	TYPE S INLET	N528817.19	E1340115.68	436.65	2'-7" X 2'-7 1/2"	HO. CO. D-422

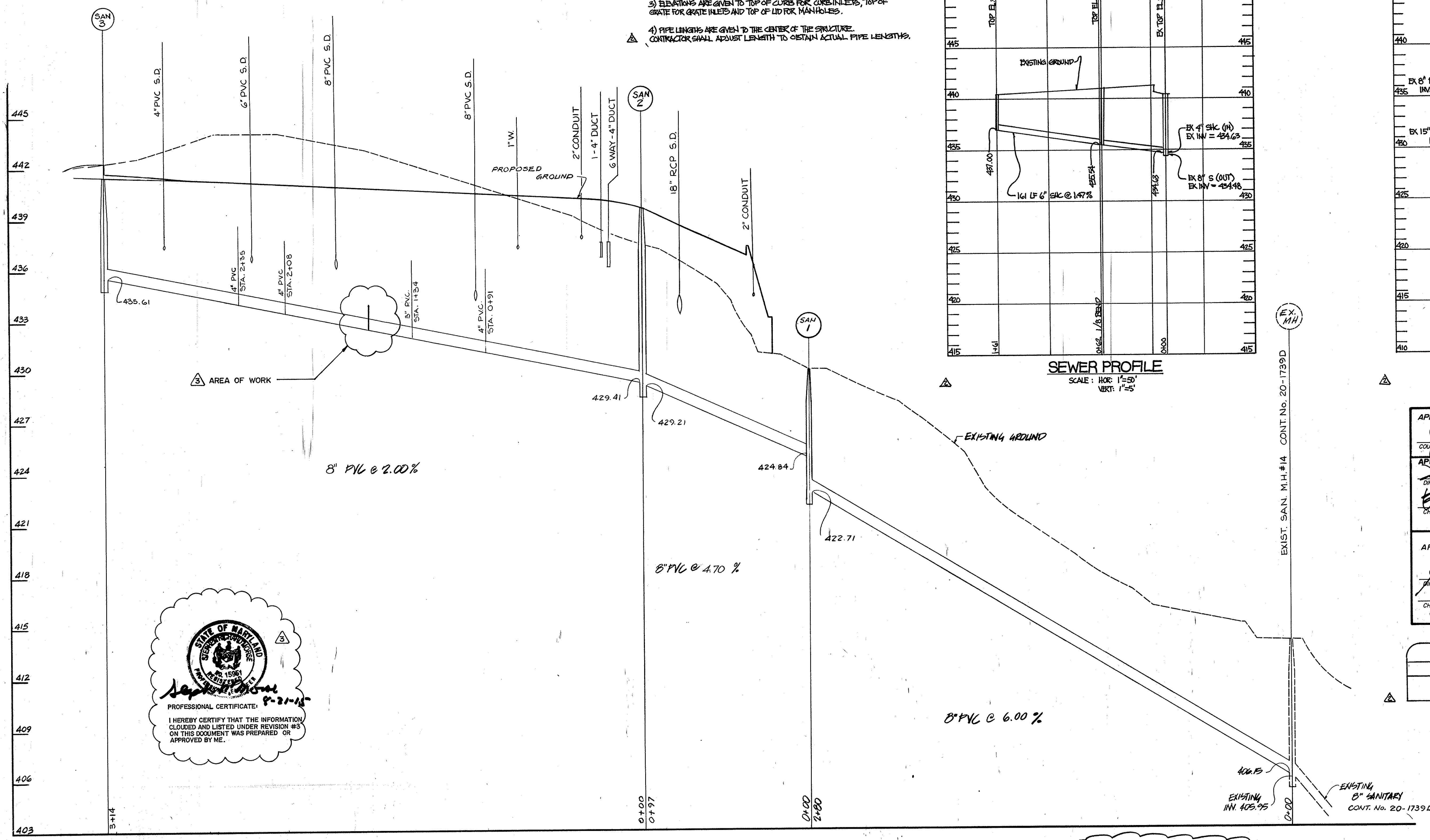
- NOTES:
- 1) ALL STRUCTURES ARE HOWARD COUNTY STANDARDS UNLESS NOTED OTHERWISE. CONTRACTOR MAY USE PRECAST STRUCTURE WHERE AVAILABLE TO MEET THE STANDARD STRUCTURE SPECIFIED.
 - 2) STATIONS ARE GIVEN TO CENTER OF STRUCTURE AT FACE OF CURB FOR CURB INLETS AND TO CENTER OF STRUCTURE FOR ALL OTHER STRUCTURES.
 - 3) ELEVATIONS ARE GIVEN TO TOP OF CURBS FOR CURB INLETS, TOP OF GRATE FOR GRATE INLETS AND TOP OF LID FOR MANHOLES.
 - 4) PIPE LENGTHS ARE GIVEN TO THE CENTER OF THE STRUCTURE. CONTRACTOR SHALL ADJUST LENGTH TO OBTAIN ACTUAL PIPE LENGTHS.



SEWER PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'



STORM DRAIN PROFILE
SCALE: HOR: 1"=50'
VERT: 1"=5'



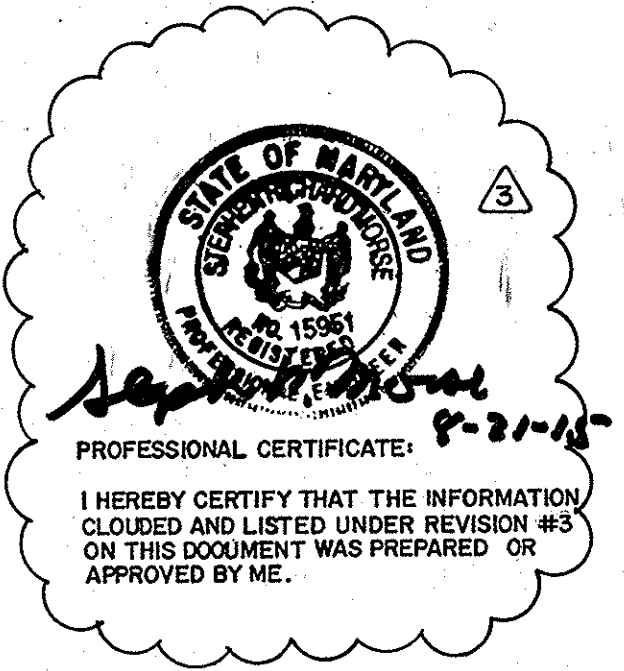
SEWER LINE PROFILE
SCALE: H: 1"=30'
V: 1"=3'

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT.
COUNTY HEALTH OFFICER: *[Signature]* DATE: 2-27-92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
DIRECTOR: *[Signature]* DATE: 2/6/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT: *[Signature]* DATE: 2/5/92

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
DIRECTOR: *[Signature]* DATE: 2/24/92
CHIEF, BUREAU OF ENGINEERING: *[Signature]* DATE: 2-21-92

PIPE SCHEDULE		
SIZE	TYPE	LINEAR FOOTAGE
15"	RCP CLV	36



THIS SHEET WAS MODIFIED TO INCLUDE THE RAINWATER HARVESTING FACILITIES DESIGN INFORMATION. REFER TO THE SOUTH COUNTY RAINWATER HARVESTING AND WASH PAD DESIGN PACKAGE, CAPITAL PROJECT C-0313, ORIGINALLY DATED APRIL 2015, (LATEST REVISION).

SEE SHEET C5.2 FOR REVISED SEWER PROFILE

1650

ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia, MD, 21045 (301)995-4067

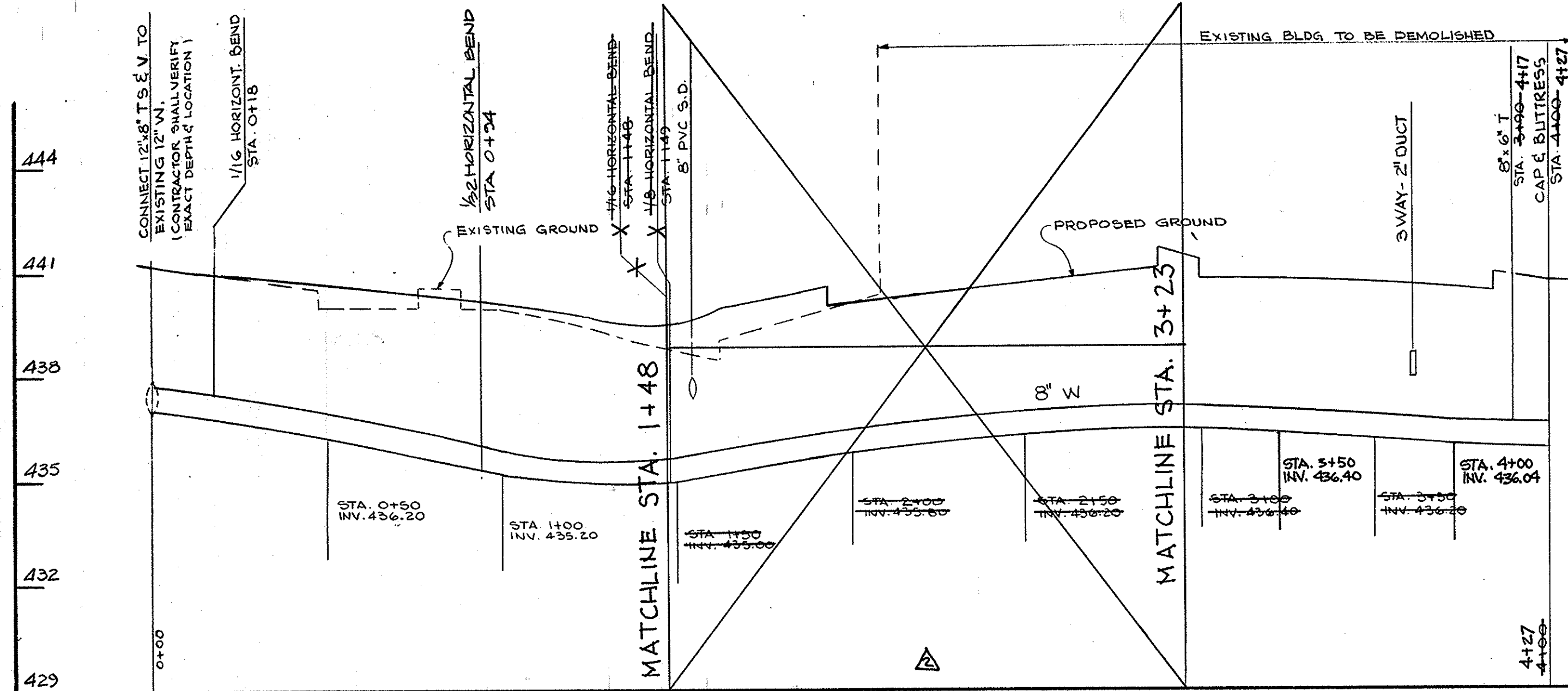
IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING

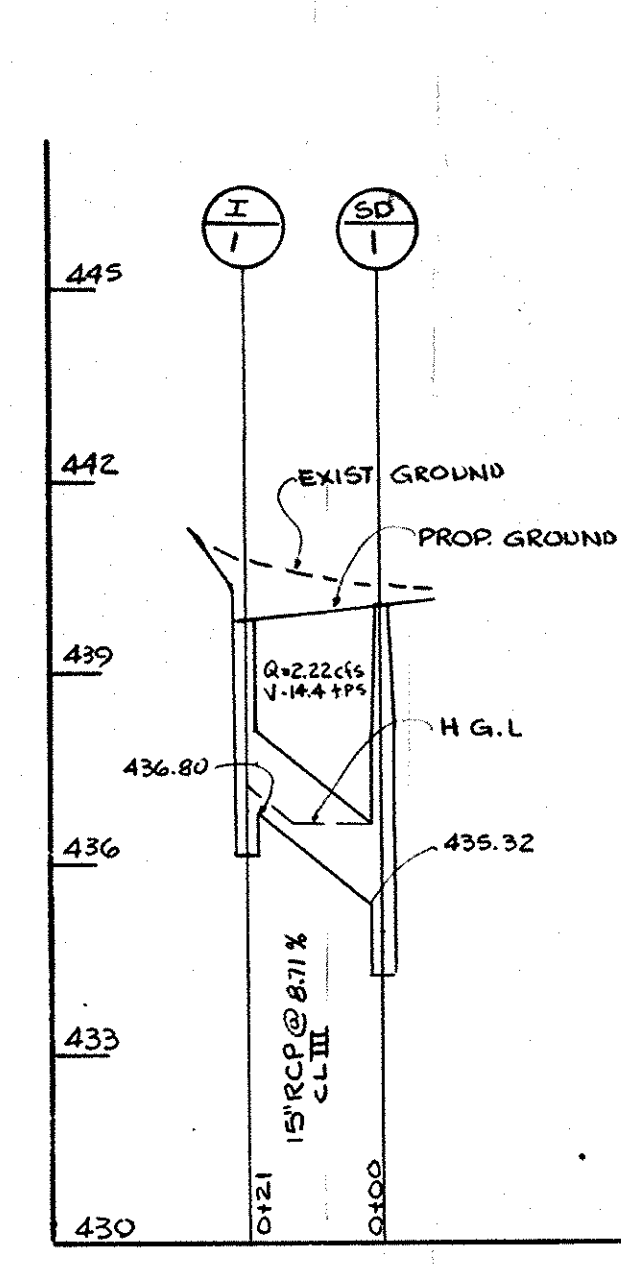
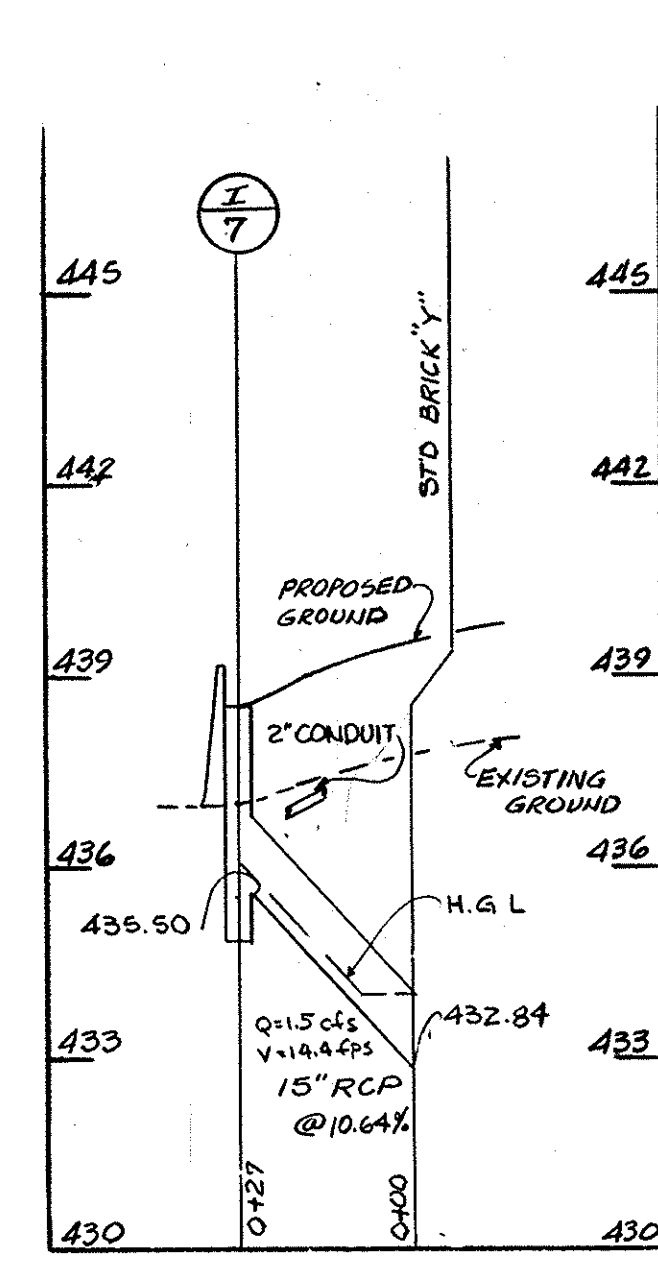
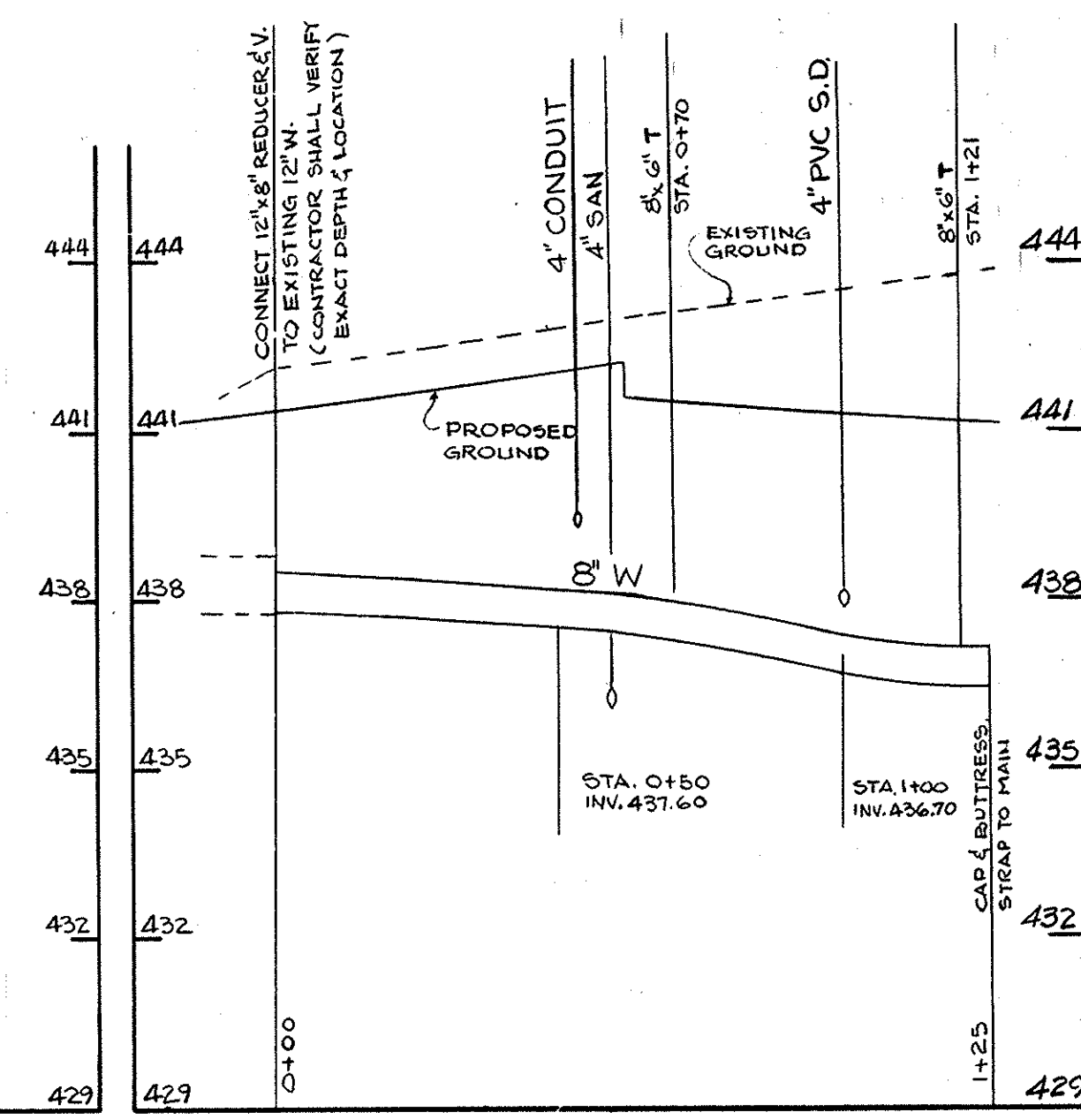


REVISIONS	
AS-BUILT	11/24/92
ADD UTILITY PROFILES	7/7/09
REDLINE REVISIONS - SEE NOTE	

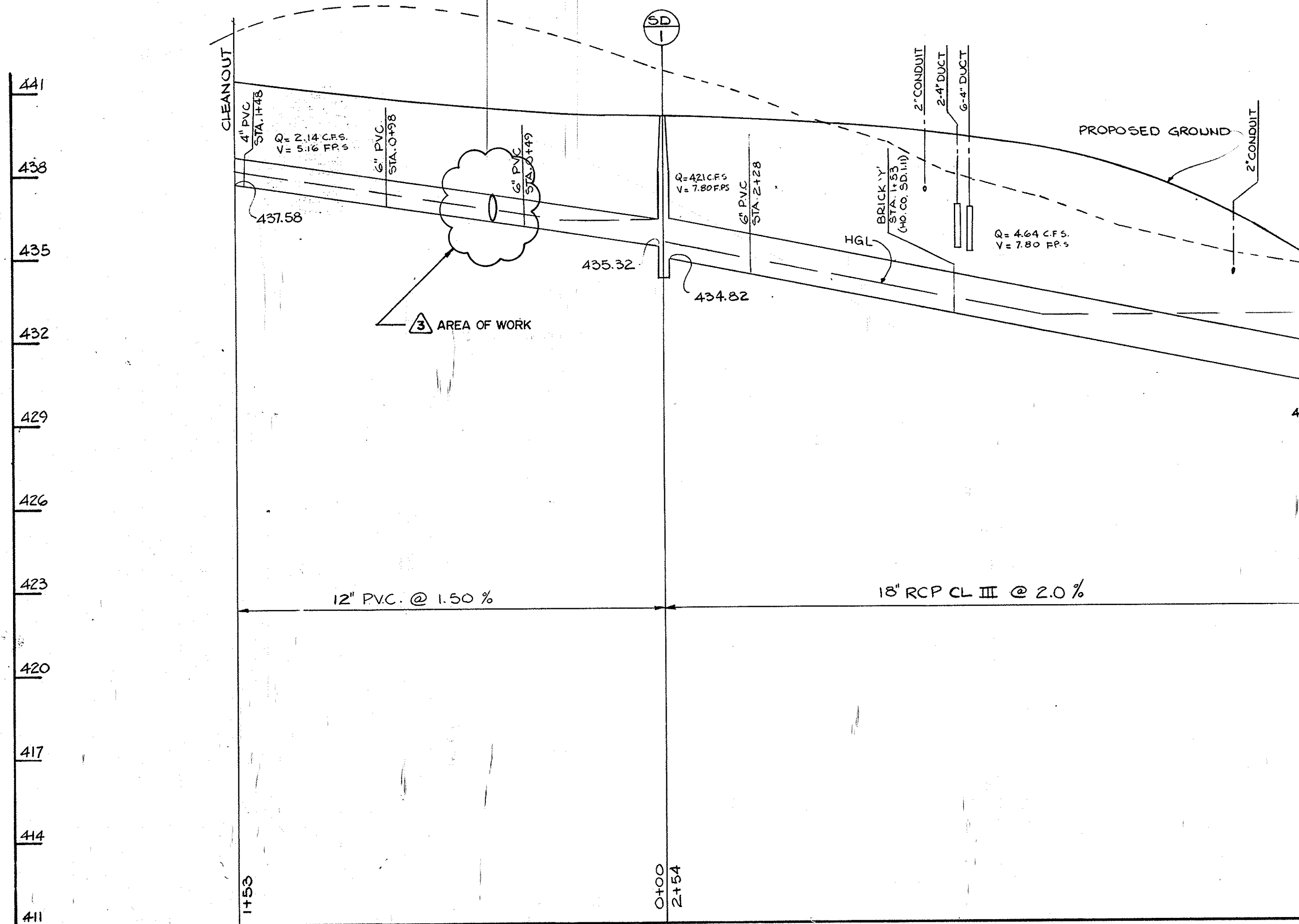
SEWER LINE PROFILE		8 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707		DATE: 2-20-92 DRAWING NO. C-5.1



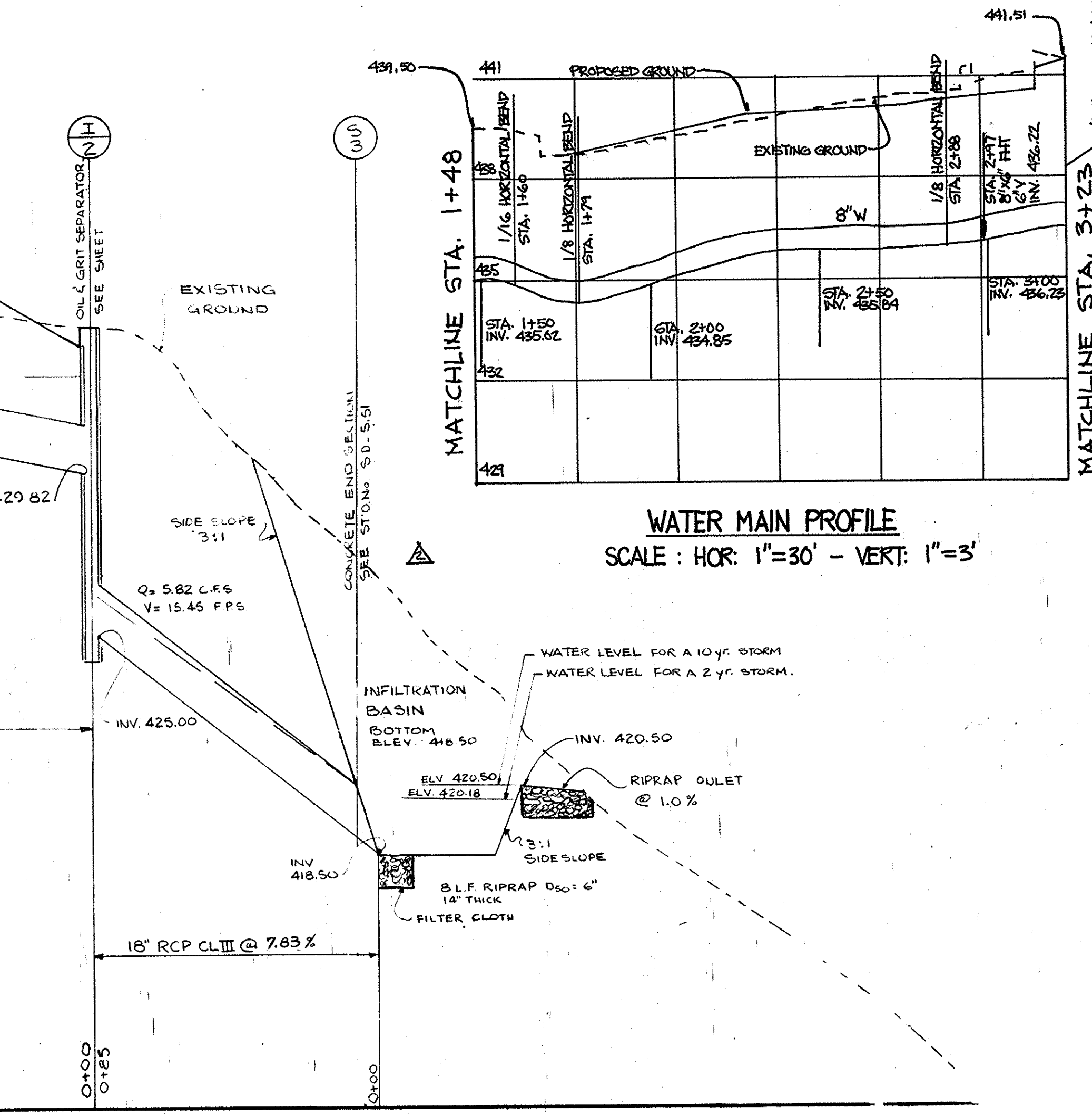
WATER MAIN PROFILE



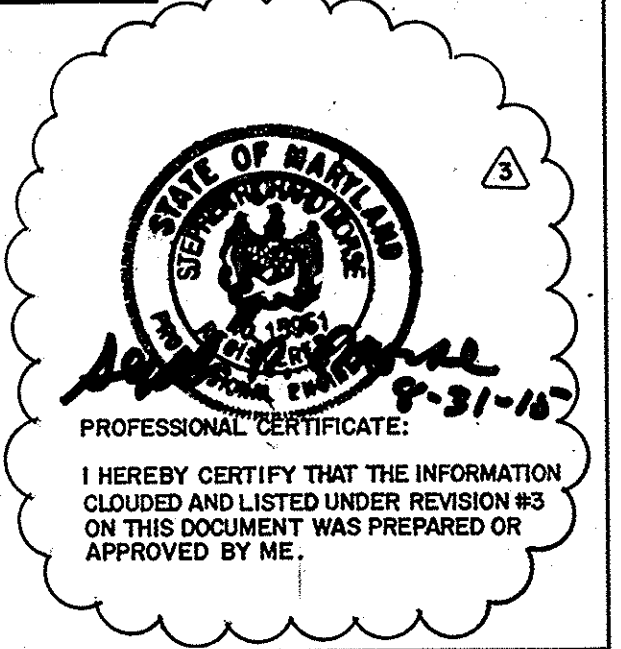
PARKING LOT, EAST OF BUILDING



STORM DRAIN PROFILE, EAST OF BLDG.



WATER MAIN PROFILE
SCALE: HOR: 1"=30' - VERT: 1"=3'



APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT.
James M. Helms 2-27-92
COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
James M. Helms 2/27/92
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE.
STORM DRAINAGE SYSTEMS AND PUBLIC WORKS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. Helms 2/24/92
DIRECTOR DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE.
STORM DRAINAGE SYSTEMS AND PUBLIC WORKS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
James M. Helms 2-21-92
CHIEF, BUREAU OF ENGINEERING DATE

THE DEVELOPMENT PLAN IS APPROVED FOR
SOIL EROSION AND SEDIMENT CONTROL BY
THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: *James M. Helms* DATE 2/25/92
HOWARD S.C.D.

REVIEWED FOR: *James M. Helms* HOWARD S.C.D.
NAME

AND MEETS TECHNICAL REQUIREMENTS
James M. Helms 2/25/92
SIGNATURE DATE
U.S. SOIL CONSERVATION SERVICE

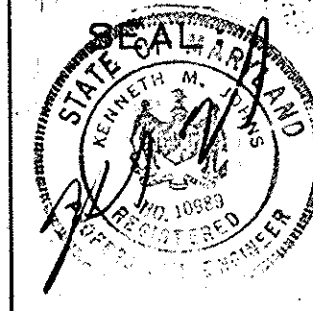
THIS SHEET WAS MODIFIED TO INCLUDE THE RAINWATER HARVESTING FACILITIES DESIGN INFORMATION. REFER TO THE SOUTH COUNTY RAINWATER HARVESTING AND WASH PAD DESIGN PACKAGE, CAPITAL PROJECT C-0313, ORIGINALLY DATED APRIL 2015, (LATEST REVISION).

SEE SHEETS C.4.4 & C5.2 FOR REVISED STORM DRAIN

SCALE: HOR: 1"=30'
VER: 1"=3'

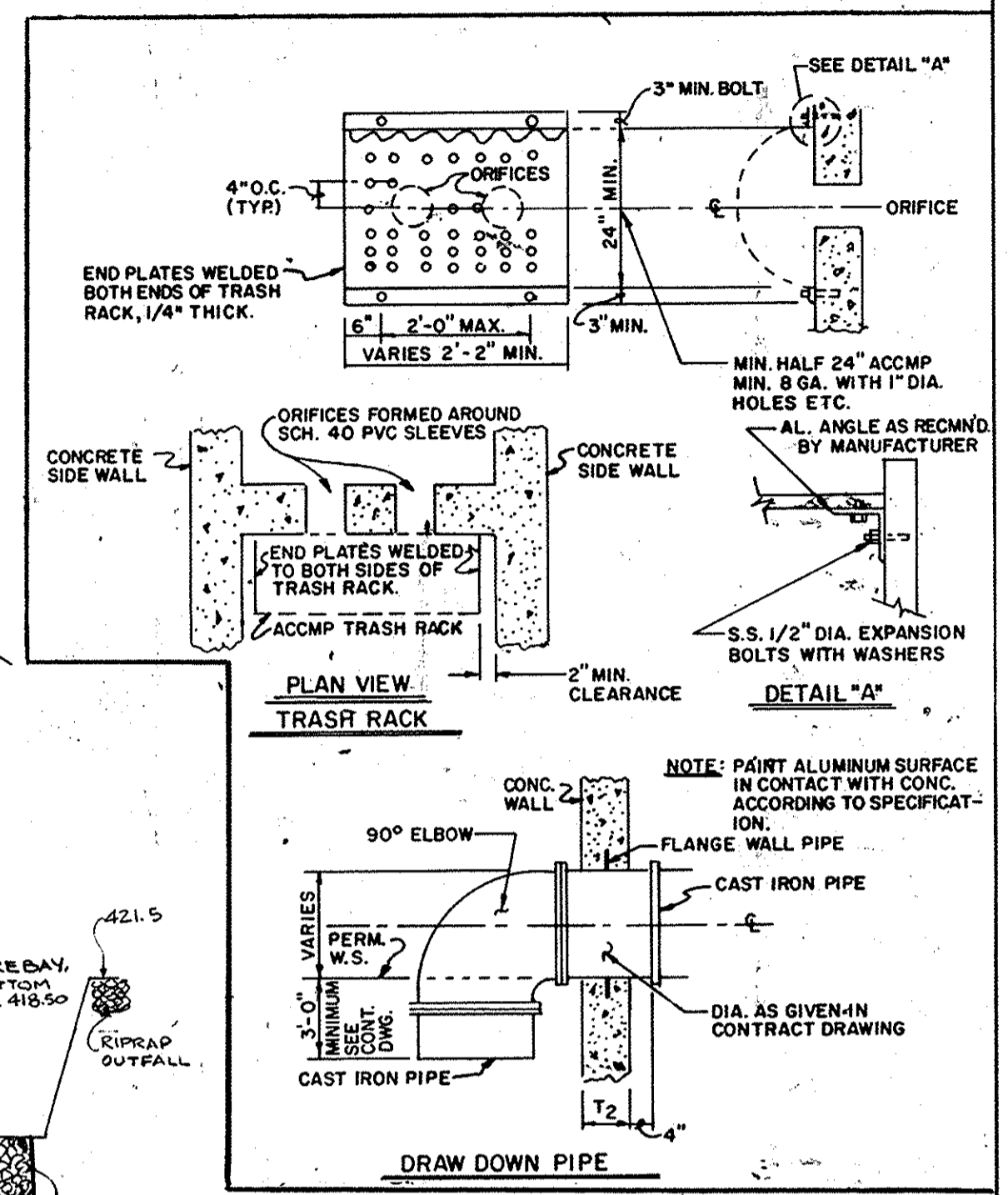
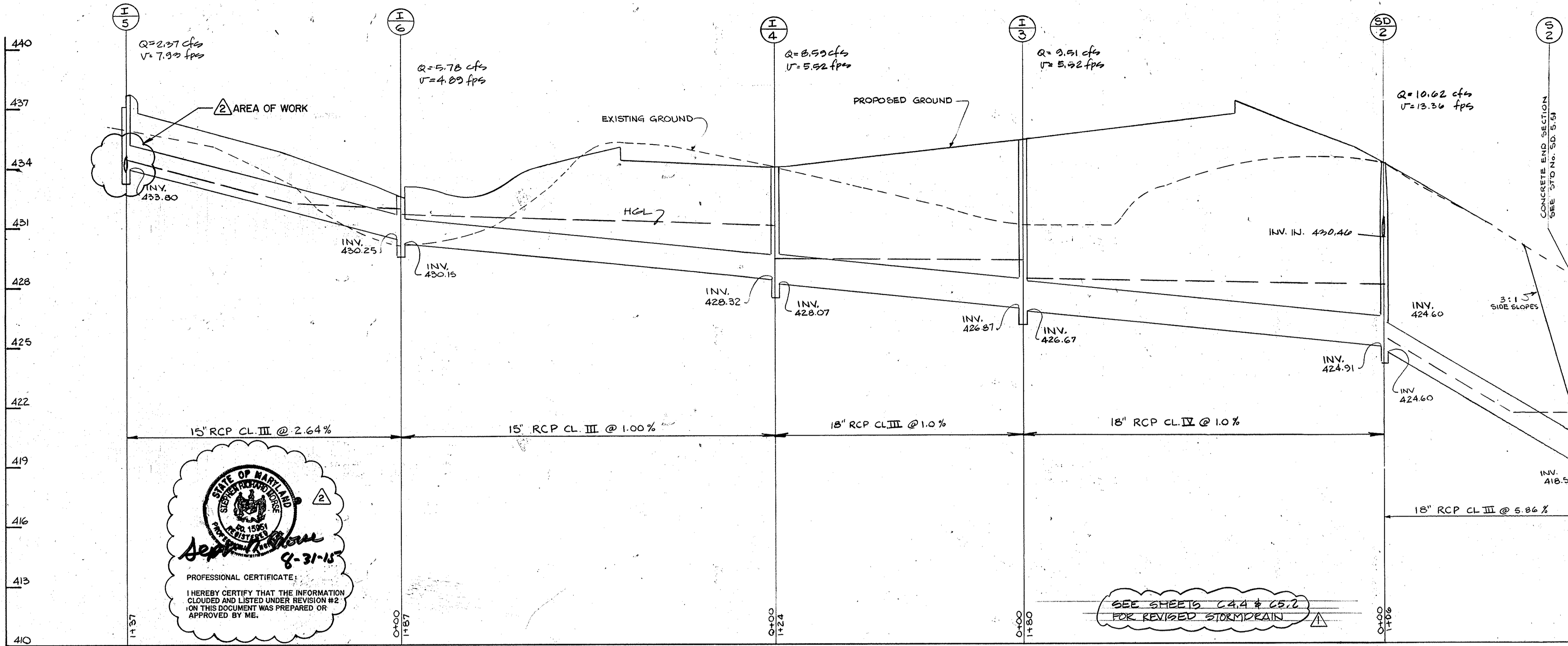
ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia, MD, 21045 (301)995-4067

IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING



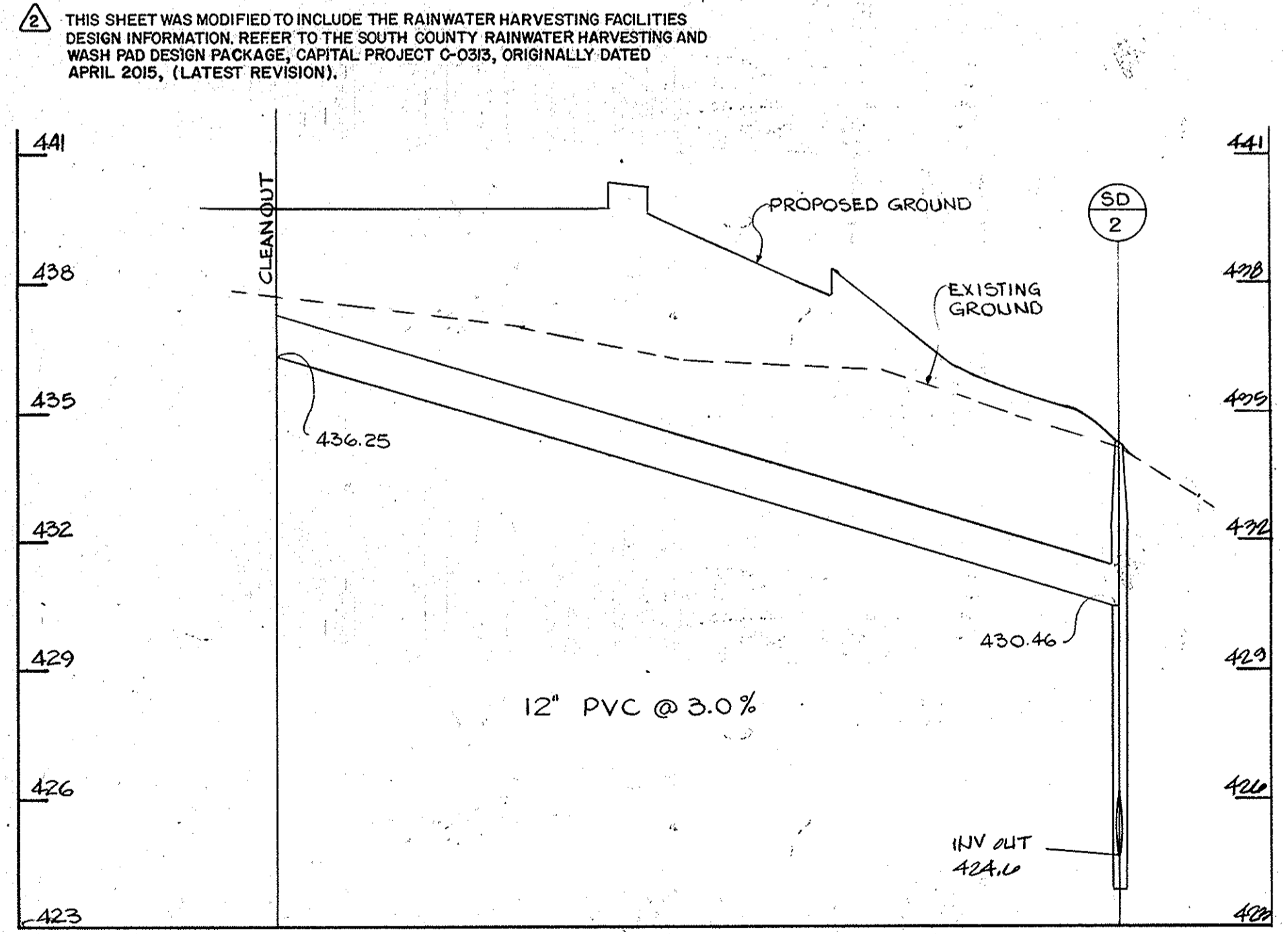
REVISIONS	
AS BUILT	11/24/94
REVISE WATER PROFILE	7/7/09
REDLINE REVISIONS - SEE NOTE	

WATER MAIN & STORM DRAIN PROFILES		9 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C-0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707		DATE: 2-20-92
		DRAWING NO. C-6.1



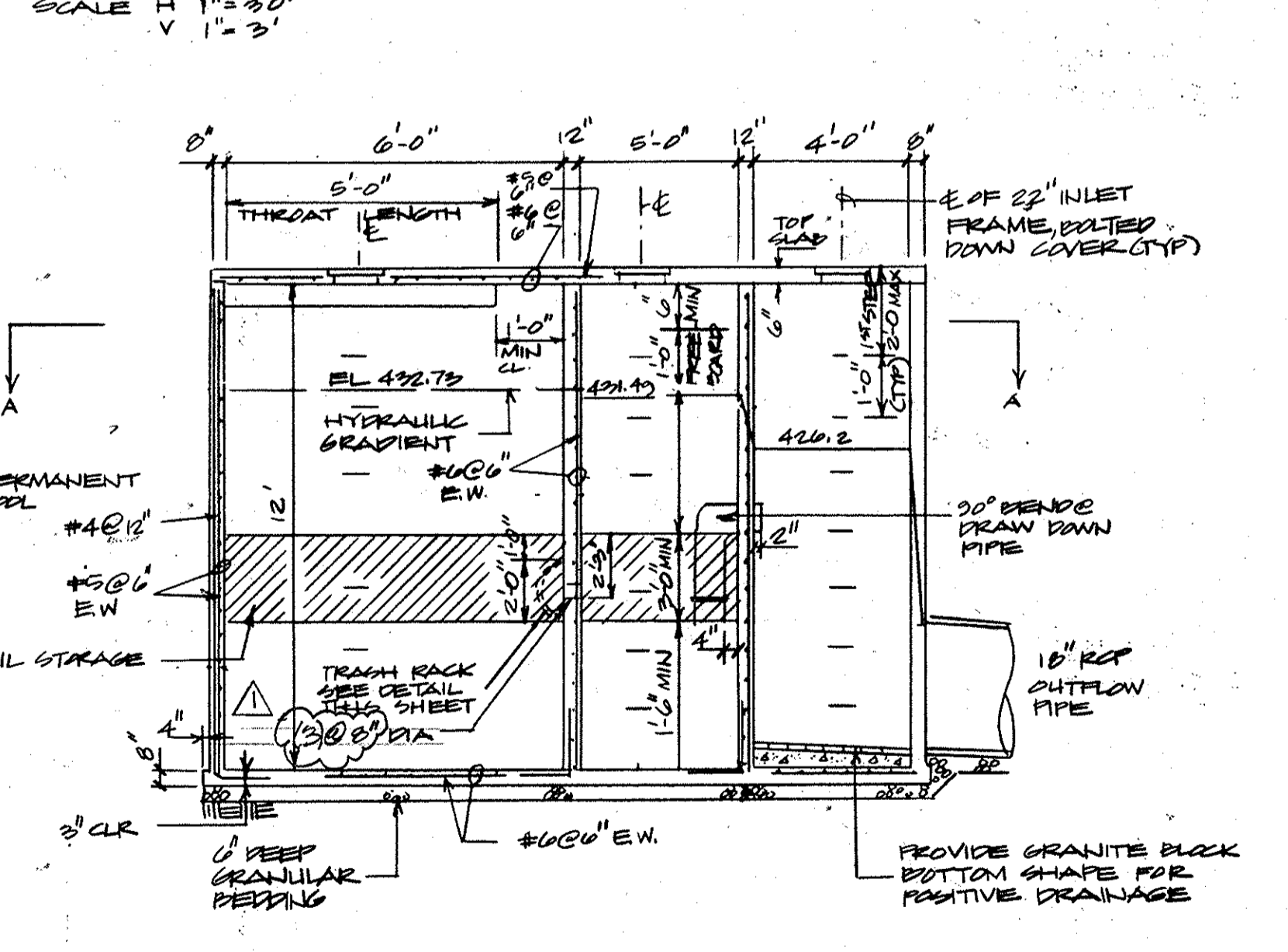
SEE SHEETS C-4 & C-5 FOR REVISED STORM DRAIN

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
 COUNTY HEALTH OFFICER: [Signature] DATE: 2-27-92
 APPROVED HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 DIRECTOR: [Signature] DATE: 3/6/92
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT
 APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 DIRECTOR: [Signature] DATE: 2/24/92
 CHIEF, BUREAU OF ENGINEERING DATE: 2-21-92

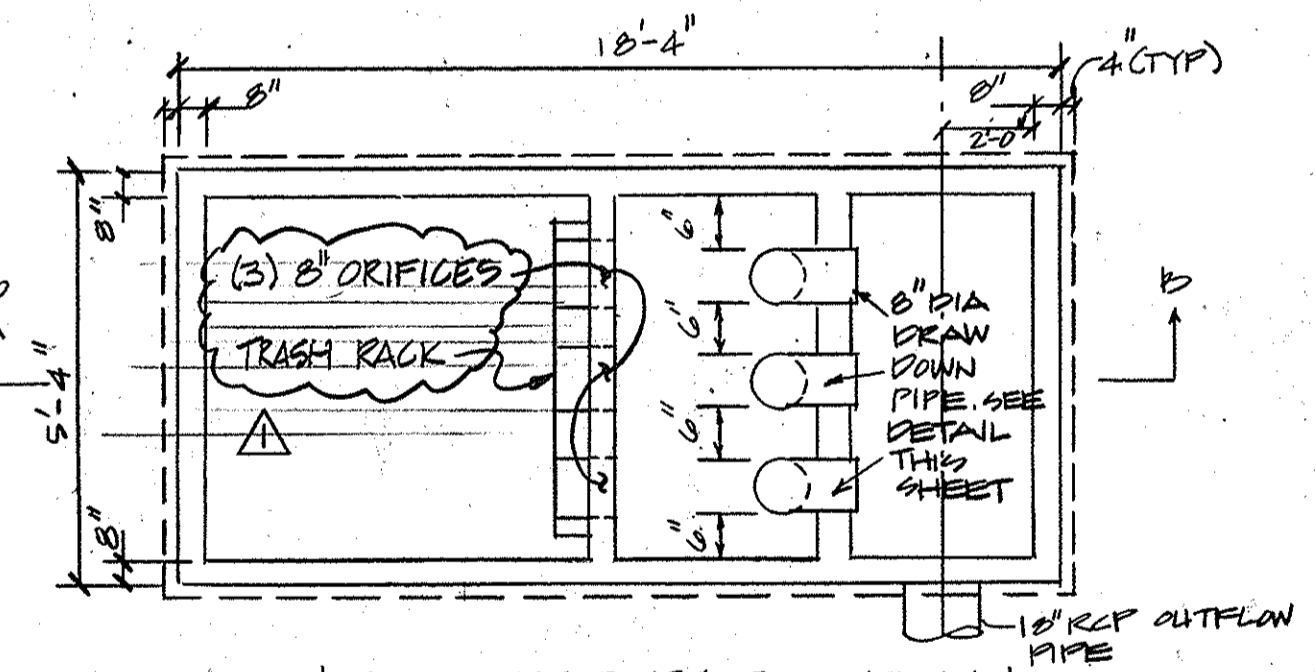


STORM DRAIN PROFILE, WEST OF BLDG FROM ROOF LEADER
 SCALE H 1"=30' V 1"=3'

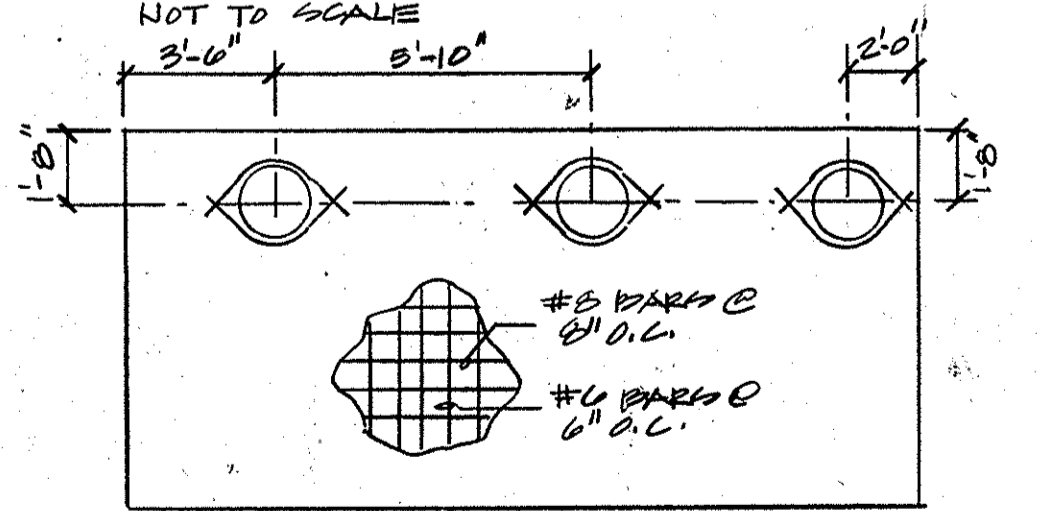
STORM DRAIN PROFILE, WEST OF BLDG
 SCALE H 1"=30' V 1"=3'



OIL AND GRIT SEPARATOR (SECTION D-B)
 NOT TO SCALE



OIL & GRIT SEPARATOR PLAN
 SECTION D-B
 NOT TO SCALE

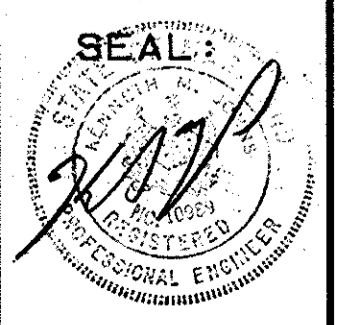


OIL AND GRIT SEPARATOR TOP SLAB
 NO SCALE

THE DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 APPROVED: [Signature] DATE: 2/25/92
 HOWARD S.C.D.
 REVIEWED FOR: [Signature] NAME: [Signature] HOWARD S.C.D.
 AND MEETS TECHNICAL REQUIREMENTS
 SIGNATURE: [Signature] DATE: 2/25/92
 U.S. SOIL CONSERVATION SERVICE

ARCHITECTURAL TECHNOLOGIES, INC.
 Architects and Construction Consultants
 9192 Red Branch Road, Suite 300
 Columbia, MD, 21045 (301)995-4067

IN ASSOCIATION WITH:
 CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
 STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
 FIRE PROTECTION ENGINEER: STANTON ENGINEERING

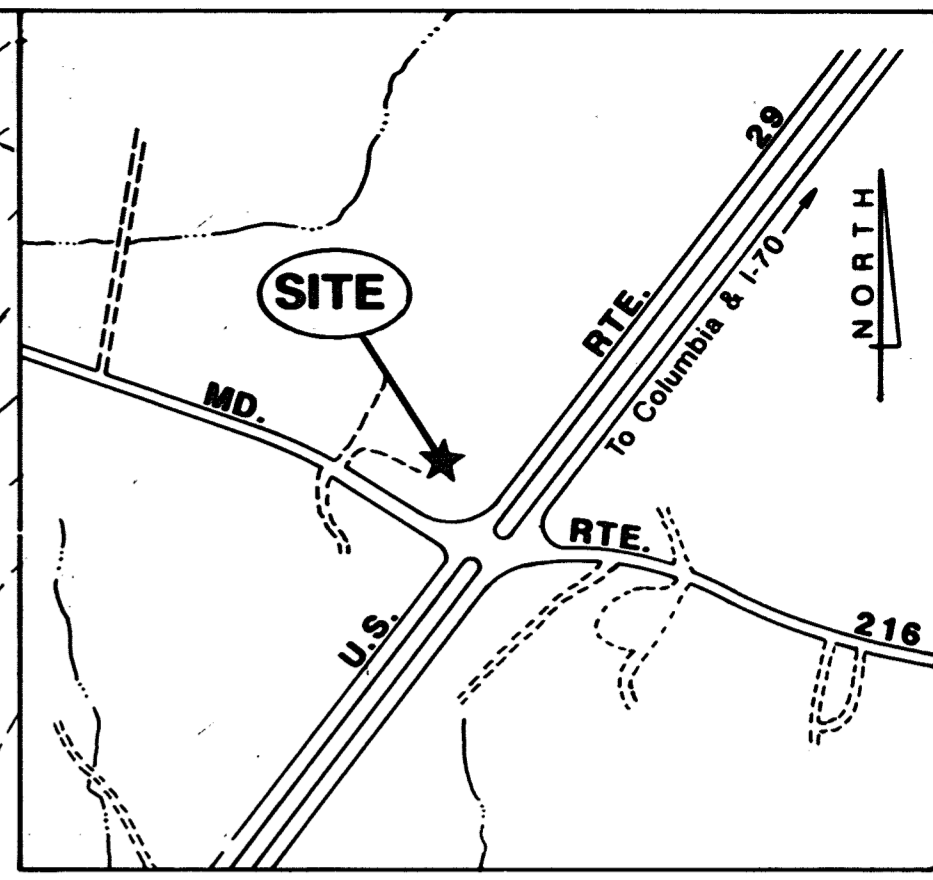


REVISIONS	
AS BUILT	11/24/94
REVISION No. 2: REDLINE REVISIONS - SEE NOTE	

STORM DRAIN PROFILES		10 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707		DATE: 2-20-92 DRAWING NO. C-7.1

NOTE: ALL SEDIMENT CONTROL MEASURES SHALL NOT BE REMOVED WITHOUT PERMISSION OF THE SEDIMENT CONTROL INSPECTOR.

- SEQUENCE OF CONSTRUCTION**
1. OBTAIN GRADING PERMIT FROM THE HOWARD COUNTY DEPT OF PUBLIC WORKS.
 2. INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, PERIMETER DIKE/SWALE, TEMPORARY SWALE AND SEDIMENT TRAPS AS SHOWN ON THIS SHEET.
 3. DEMOLISH EXISTING STRUCTURES AS PER THE DEMOLITION PLAN.
 4. PERFORM GRADING.
 5. CONSTRUCT SANITARY SEWER WATER AND STORM DRAIN SYSTEMS AND TEMPORARILY PLUG PIPES AT INLETS TO PROVIDE TEMPORARY STABILIZATION.
 6. CONSTRUCT PROPOSED BUILDING.
 7. INSTALL BASE COURSE FOR PARKING LOT.
 8. REMOVE SEDIMENT TRAP #1 AND CONSTRUCT INFILTRATION BASIN. STABILIZE DISTURBED AREA AROUND THE BASIN AREA.
 9. REMOVE TEMPORARY PLUGS ON INLET PIPES.
 10. CONSTRUCT CURB AND GUTTER AND PAVE PARKING AREA.
 11. STABILIZE REMAINING DISTURBED AREAS.
 12. UPON APPROVAL OF THE EROSION/SEDIMENT CONTROL INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES.



VICINITY MAP
SCALE: 1" = 600'

DESIGN CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 1983 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL OR CURRENT REVISIONS THEREOF, AND DEPARTMENT OF THE ENVIRONMENT STORMWATER MANAGEMENT REGULATIONS.

DATE: 2/20/92
DESIGNER'S SIGNATURE: Kenneth M. Johns
MD REGISTRATION NO. 10989
P.E. R.L.S. OR R.L.A. (CIRCLE) PRINTED NAME

OWNER'S/DEVELOPER'S CERTIFICATION:

"I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I/WE HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT, COMPLIANCE INSPECTORS."

DATE: 2/24/92
OWNER/DEVELOPER SIGNATURE: [Signature]
CARD NO. PRINTED NAME AND TITLE

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

County Health Officer: [Signature] Date: 2-27-92

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

Director: [Signature] Date: 3/1/92
Chief, Division of Community Planning and Land Development

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC WORKS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

Director: [Signature] Date: 2-24-92
Chief, Bureau of Engineering

THE DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: [Signature] DATE: 2/27/92
Howard S.C.D.

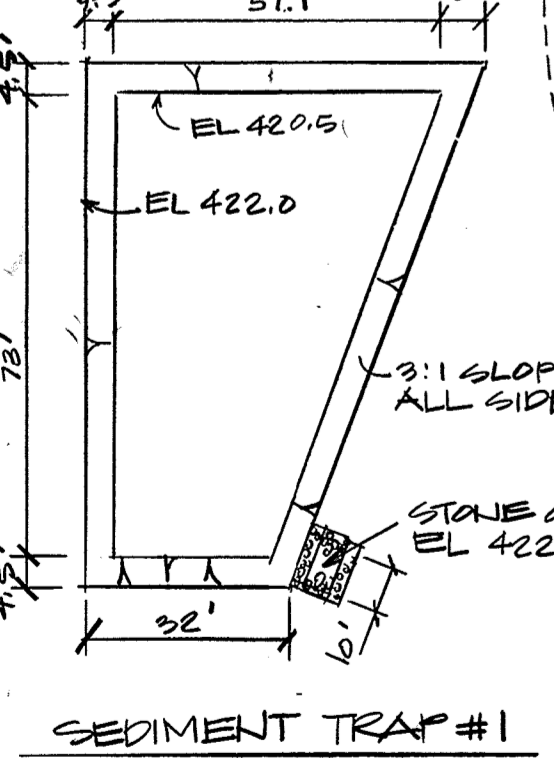
REVIEWED FOR: [Signature] HOWARD S.C.D.
Name

AND MEETS TECHNICAL REQUIREMENTS.

Signature: [Signature] DATE: 2/27/92
U.S. SOIL CONSERVATION SERVICE

LEGEND

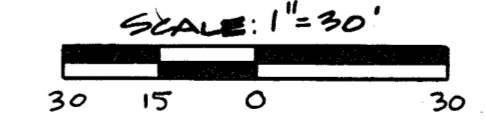
- TEMPORARY STOCKPILE AREA
- CONTRACTOR'S STAGING AREA
- TEMPORARY PLUG AT INLET PIPES
- STABILIZED CONSTRUCTION ENTRANCE
- INLET PROTECTION
- SILT FENCE
- LIMIT OF DISTURBANCE/LIMIT OF CONTRACT
- PERIMETER DIKE/SWALE
- DRAINAGE AREA BOUNDARY
- ST. I SEDIMENT TRAP
- TEMPORARY SWALE



SEDIMENT TRAP DATA

No.	TYPE	DRAIN. AREA	VOLUME REQUIRED	DIMENSIONS AT BOTTOM (DEPTH)	VOLUME PROVIDED	CREST WIDTH	BOTTOM ELEV.	OUTLET ELEV.	CLN OUT ELEV.
1	ST I *	2.5 Ac	4,500 CU.FT.	10'x60'x2.0'	5077 CU.FT.	10'	420.5	422.0	421.25
2	ST II	1.2 Ac	2,160 CU.FT.	10'x60'x2.0'	2184 CU.FT.	5.00'	426.0	429.0	427.0

* SEDIMENT TRAP #1 TO BE LOCATED AT PROPOSED INFILTRATION BASIN. AT COMPLETION OF WORK, TRAP TO BE GRADED TO REQUIRED DEPTH AND STONE OUTLET TO BE REMOVED FOR TRAP CONFIGURATION. SEE DETAIL THIS SHEET.



ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
9192 Red Branch Road., Suite 300
Columbia, MD, 21045 (301)995-4067

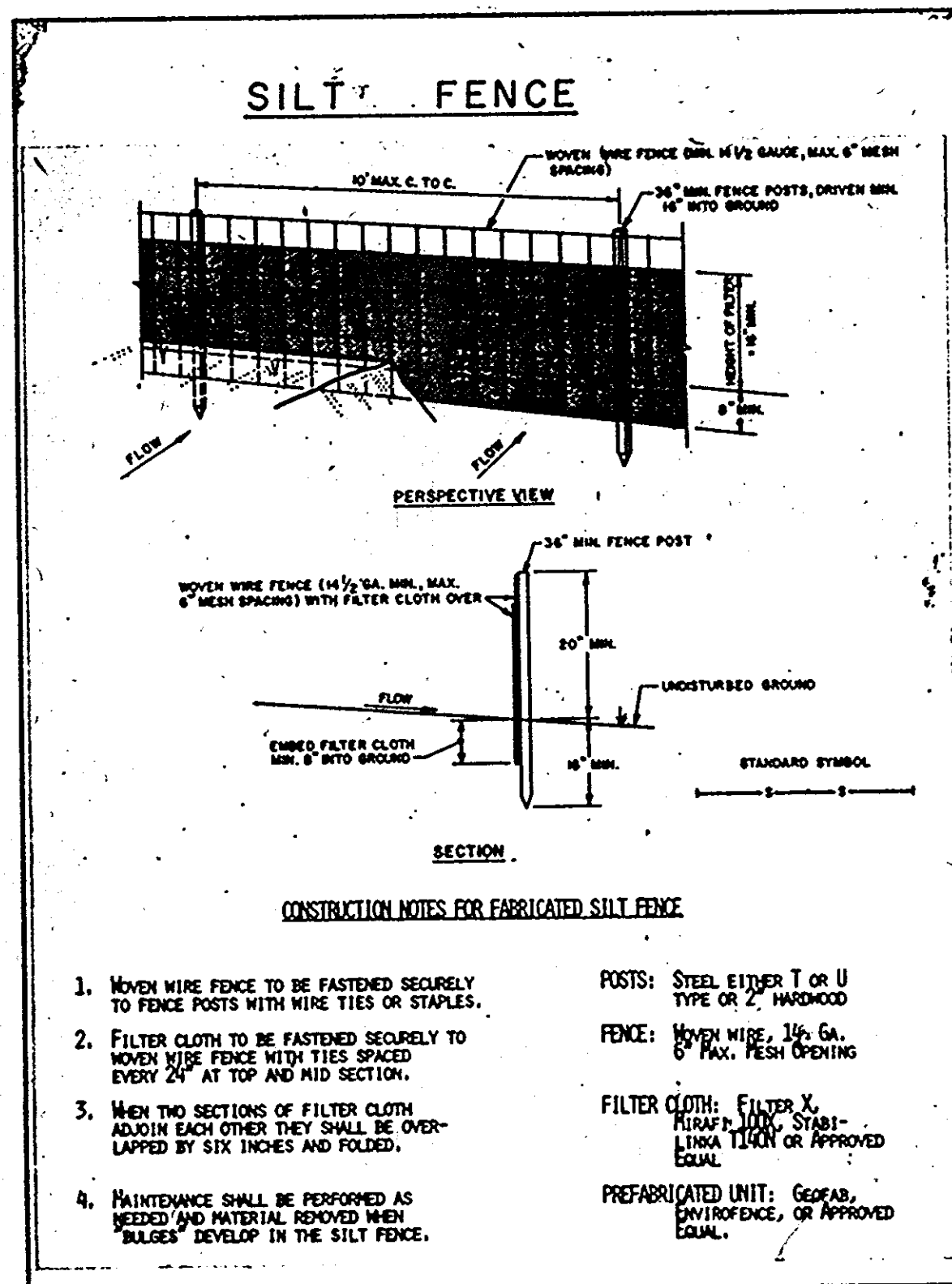
IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: GODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING



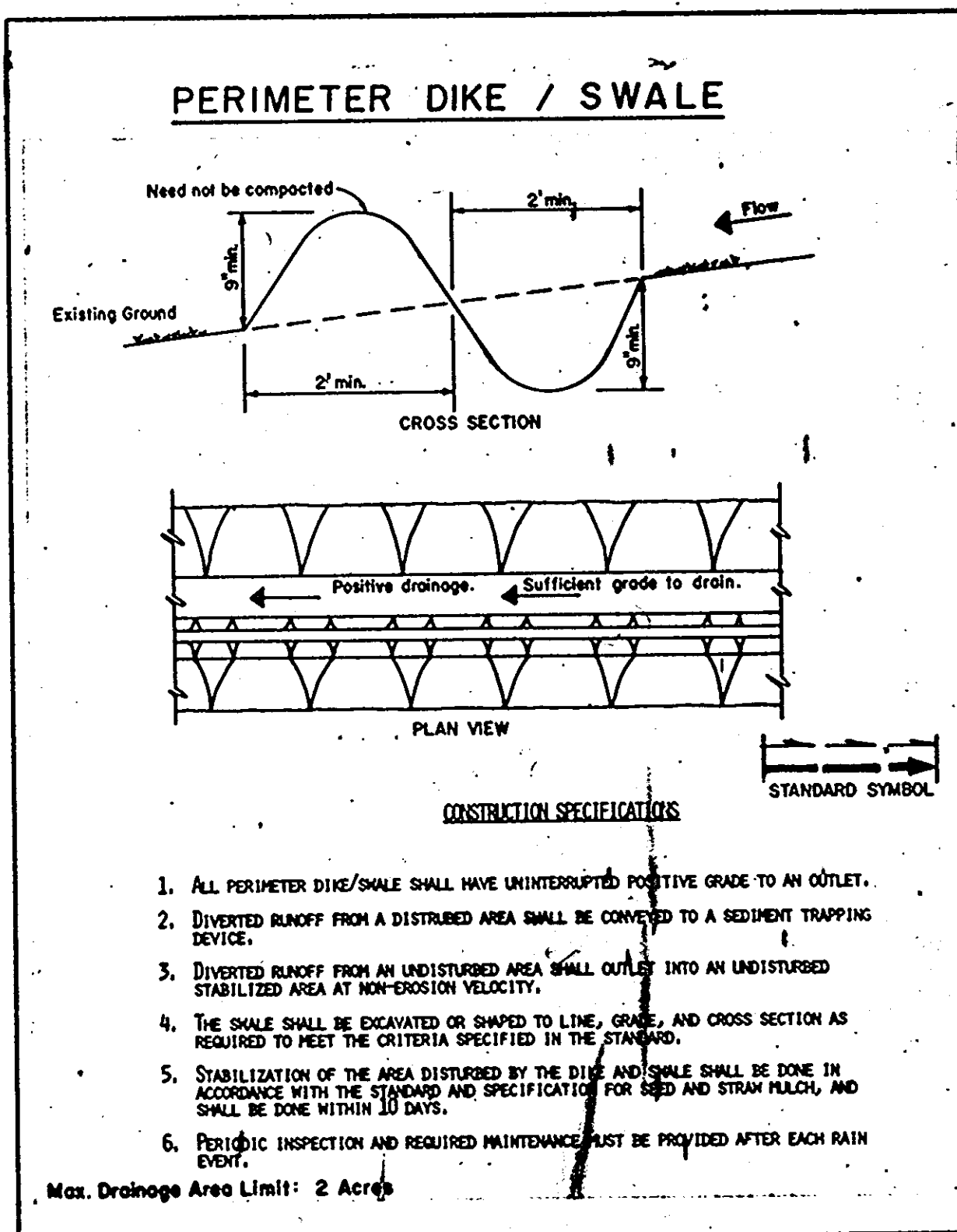
No.	REVISIONS	DATE
1	REVISE PLAN TO SHOW EXISTING BUILDING CONFIGURATION	6-9-21

EROSION & SEDIMENT CONTROL PLAN
HOWARD COUNTY PUBLIC SAFETY COMPLEX
SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD. 20707

11 OF 90
CAPITAL PROJECT NO. C-0227
DATE: 2-20-92
DRAWING NO. C-8.1



SILT FENCE
NTS

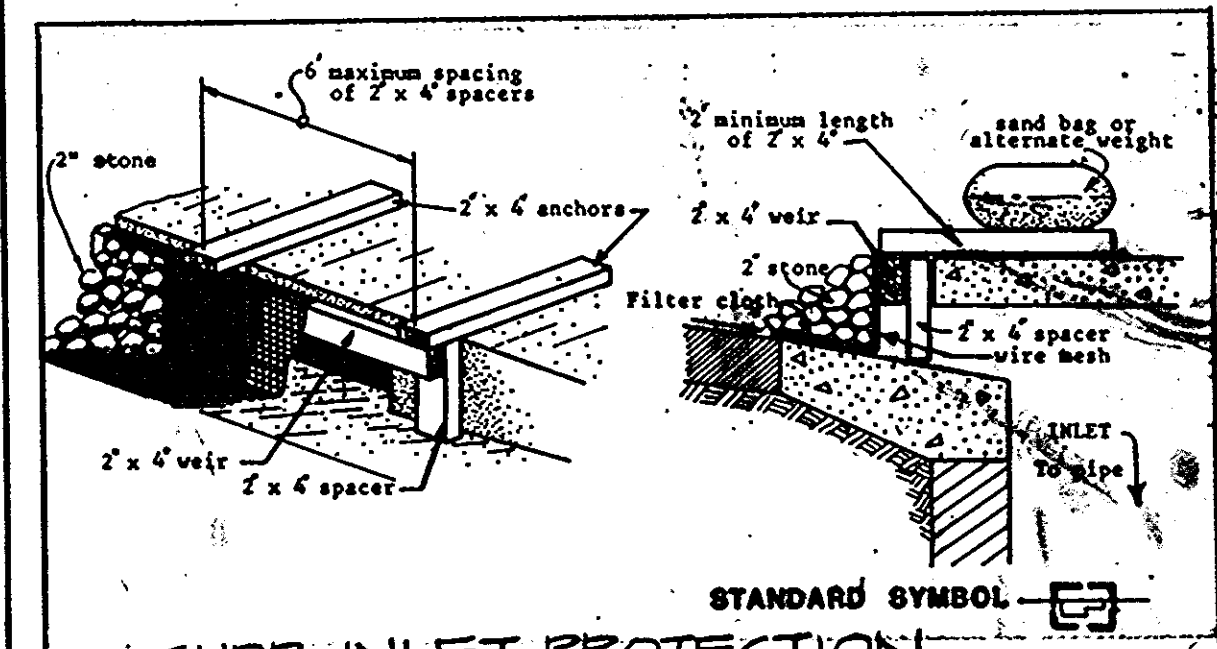


PERIMETER DIKE / SWALE
NTS

SEDIMENT CONTROL / GENERAL NOTES

- Notification of MDE Enforcement Division (301)974-2641, at least 5 days prior to the start of work.
- Prior to the start of work, the contractor is to obtain approval of any proposed plan changes and sequence of construction, specifically relating to installation, inspection, maintenance and removal of erosion and sediment control measures.
- Sediment control measures are not to be removed until the areas served have established vegetative cover or stabilized, with the permission of the MDE Enforcement Inspector.
- When pumping sediment-laden water, the discharge must be directed to approved sediment trapping measure prior to release from the site.
- All temporary stockpiles are to be located within areas protected by sediment control measures, and are to be temporarily stabilized.
- All sediment control dikes, swales, basins and flow lines to basins will be temporarily seeded immediately upon installation to reduce the contribution to sediment loading.
- Disposal of excess earth materials on state or federal property require MDE approval, otherwise materials are to be disposed of at a location by the local authority.
- Temporary soil erosion control and sediment control measures are to be provided as per the approved plan, and all other measures shall be cut into the roadbed to direct drainage onto stable areas or into an approved sediment trapping device.
- If grading is completed out of a seeding, graded areas are to be temporarily stabilized by mulch and mulch anchoring. Mulch material shall be unweathered, unchopped small grain straw spread at the rate of 1 1/2 to 2 tons per acre. Mulch anchoring to be accomplished by an approved method; use of a mulch anchoring tool is recommended where possible.
- Permanent seeding specifications:
 - Seed bed preparation
 - Line, fertilizer and seed
 - Mulch and anchoring method
 - Time frame to accomplish
- Temporary seeding specifications:
 - Surface preparation
 - Line, fertilizer and seed
 - Mulch and anchoring method
 - Time frame to accomplish
- Implementation of the sediment control plan shall be in accordance with the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control, of the Department of Natural Resources.
- The contractor is responsible for implementation and maintenance of the approval plan, and all other measures necessary to control, filter, or prevent sediment from leaving the site.
- Sediment control measures for the contractor's offices, staging and stockpile areas, if located outside of the designed sediment control measures must be submitted to MDE for approval.
- Roadbeds are to be stabilized by installation of aggregate sub-base within 5 days of reaching grade, or water breaks shall be cut into the roadbed to direct drainage onto stable areas or into an approved sediment trapping device.
- Sediment control for utility construction in areas outside of designed control:
 - Excavated trench material shall be placed on the high side of the trench.
 - Immediately following pipe installation the trench shall be backfilled, compacted and stabilized at the end of each working day.
 - Temporary silt fence or straw bale dikes shall be placed immediately downstream of any disturbed area intended to remain disturbed longer than one working day.

SEDIMENT CONTROL GENERAL NOTES



DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 1983 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL OR CURRENT REVISIONS THEREOF, AND DEPARTMENT OF THE ENVIRONMENT STORMWATER MANAGEMENT REGULATIONS.

2/20/92 DATE
 JKD/JD DESIGNER'S SIGNATURE
 MD REGISTRATION NO. 10989 KENNETH M. JOHNS PRINTED NAME
 (P.E.) R.L.S. OR R.L.A. (CIRCLE)

OWNER'S/DEVELOPER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINS THE PROJECT. I HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY THE STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT COMPLIANCE INSPECTORS.

2/29/92 DATE
 [Signature] OWNER/DEVELOPER SIGNATURE
 CARD NO. PRINTED NAME AND TITLE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
 HOWARD COUNTY HEALTH DEPARTMENT.
 [Signature] 2-27-92 DATE
 COUNTY HEALTH OFFICER

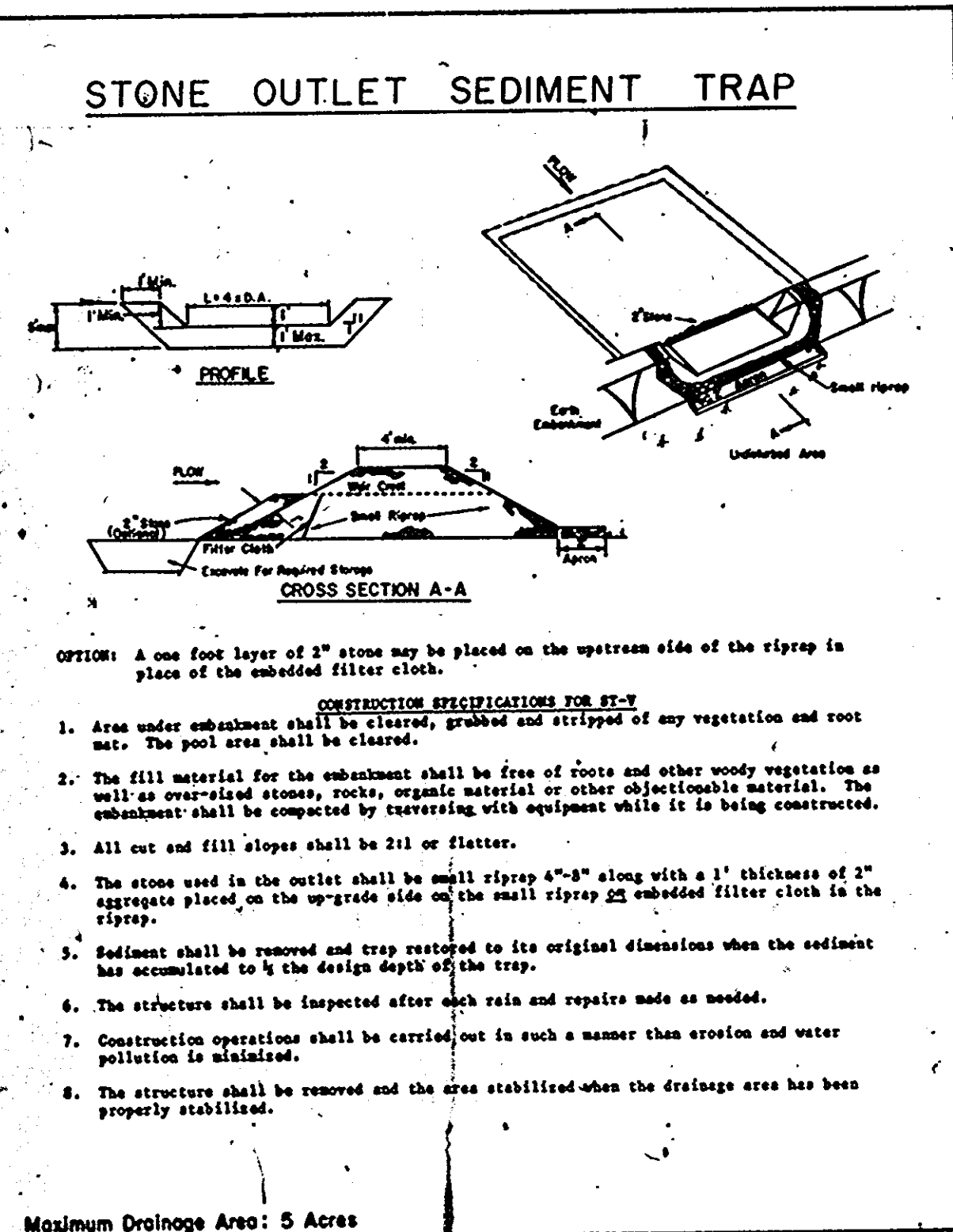
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 [Signature] 3/6/92 DATE
 DIRECTOR
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS.
 HOWARD COUNTY DEPARTMENT OF
 [Signature] 2/24/92 DATE
 DIRECTOR
 CHIEF, BUREAU OF ENGINEERING

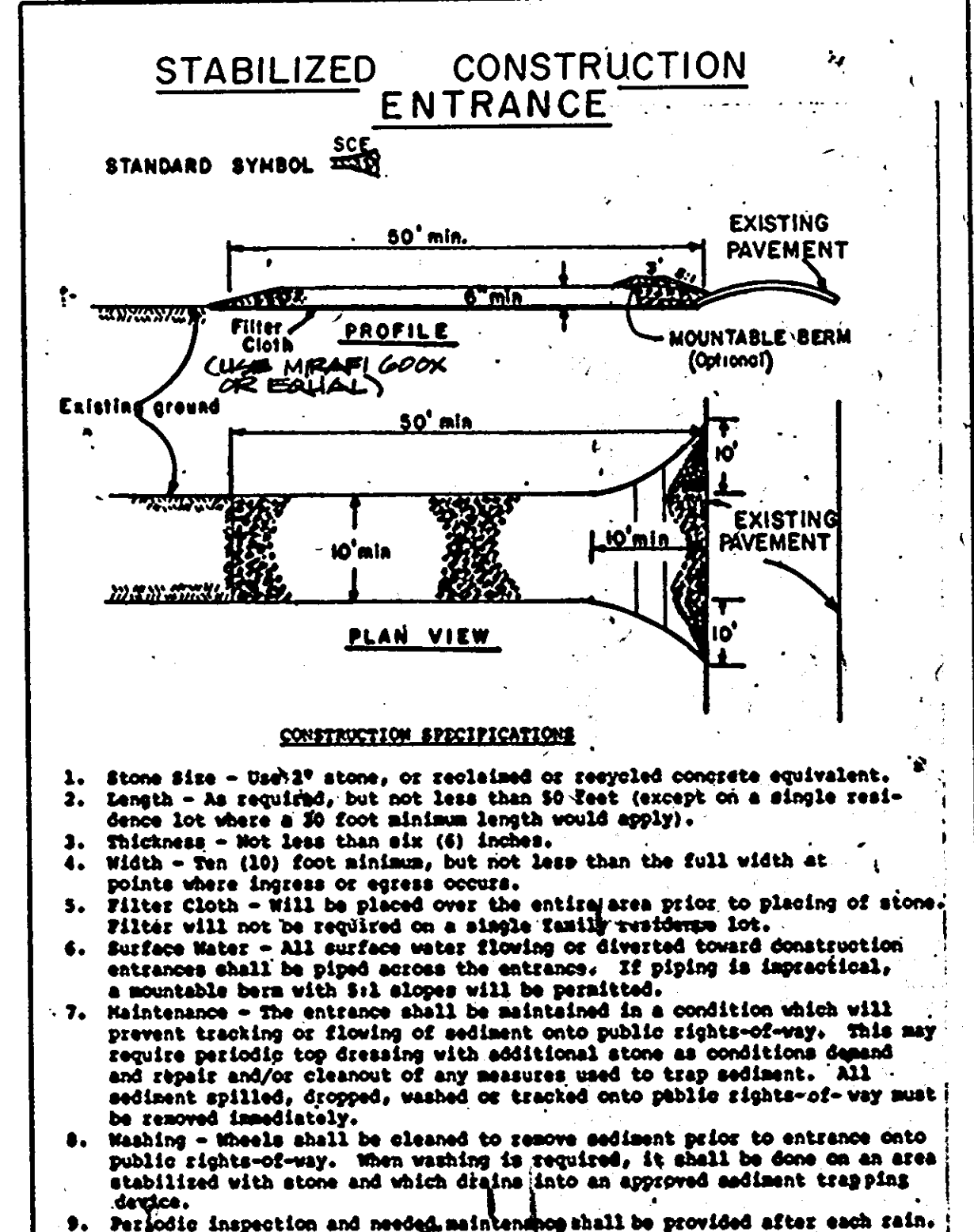
THE DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED: DATE 2/25/92
 HOWARD S.C.D.
 REVIEWED FOR [Signature] HOWARD S.C.D.
 (NOTE)
 AND MEETS TECHNICAL REQUIREMENTS.

[Signature] 2/25/92 DATE
 U.S. SOIL CONSERVATION SERVICE



STONE OUTLET SEDIMENT TRAP
NTS



STABILIZED CONSTR. ENT.
NTS

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be re-disturbed where a short-term vegetative cover is needed.

Standard Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: Apply 60 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq.ft.).

Seeding: For periods March 1 thru April 30 and from August 15 thru October 15, seed with 2 1/2 bushels per acre of annua eye (2-2 lbs/1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (3 lbs/1000 sq.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring or use sod.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool for 218 gal per acre of unrotted asphalt emulsion applied on flat areas. On slopes 8% or higher, use 348 gal per acre (8 gal/1000 sq.ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR rates and methods not covered.

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

Standard Preparation: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

Soil Amendments: In lieu of soil test recommendations, use one of the following schedules:

- 1) **Preferred** - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq.ft.) and 1000 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq.ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sq.ft.).
- 2) **Acceptable** - Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sq.ft.) and 1000 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq.ft.) before seeding. Harrow or disk into upper three inches of soil.

Seeding: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (14 lbs/1000 sq.ft.) of Kentucky 31 tall fescue. For the period May 1 thru July 31, seed with 60 lbs Kentucky 31 tall fescue per acre and 2 lbs per acre (0.5 lbs/1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28 protect site by: Option (1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs/acre Kentucky 31 tall fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool for 218 gallons per acre (5 gal/1000 sq.ft.) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseed.

SEEDING NOTES

TEMPORARY SWALE

CONSTRUCTION SPECIFICATIONS:

- ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
- DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSION VELOCITY.
- ALL EXCESS SOIL, STONES, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
- FILLS SHALL BE COMPACTED BY EARTH POWER EQUIPMENT.
- ALL EXCESS EARTH AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
- STABILIZATION SHALL BE AS PER THE CHART BELOW:

TYPE OF DRAINAGE	CHANNEL TYPE	A (5% OR LESS)	B (5% - 10%)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED WITH LIME OR CEMENT
3	5.1-8.0%	SEED WITH LIME OR CEMENT	LIME RIP-RAP 4-8" RECYCLED CONCRETE EQUIVALENT
4	8.1-20%	LIME 4-8" RIP-RAP	ENGINEERED DESIGN

PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

TEMPORARY SWALE
NTS

EROSION & SEDIMENT CONTROL DETAILS	12 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C-0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 2-20-92
	DRAWING NO. C-91

1650
ARCHITECTURAL TECHNOLOGIES, INC.
 Architects and Construction Consultants
 9192 Red Branch Road, Suite 300
 Columbia, MD, 21045 (301)995-4067

IN ASSOCIATION WITH:

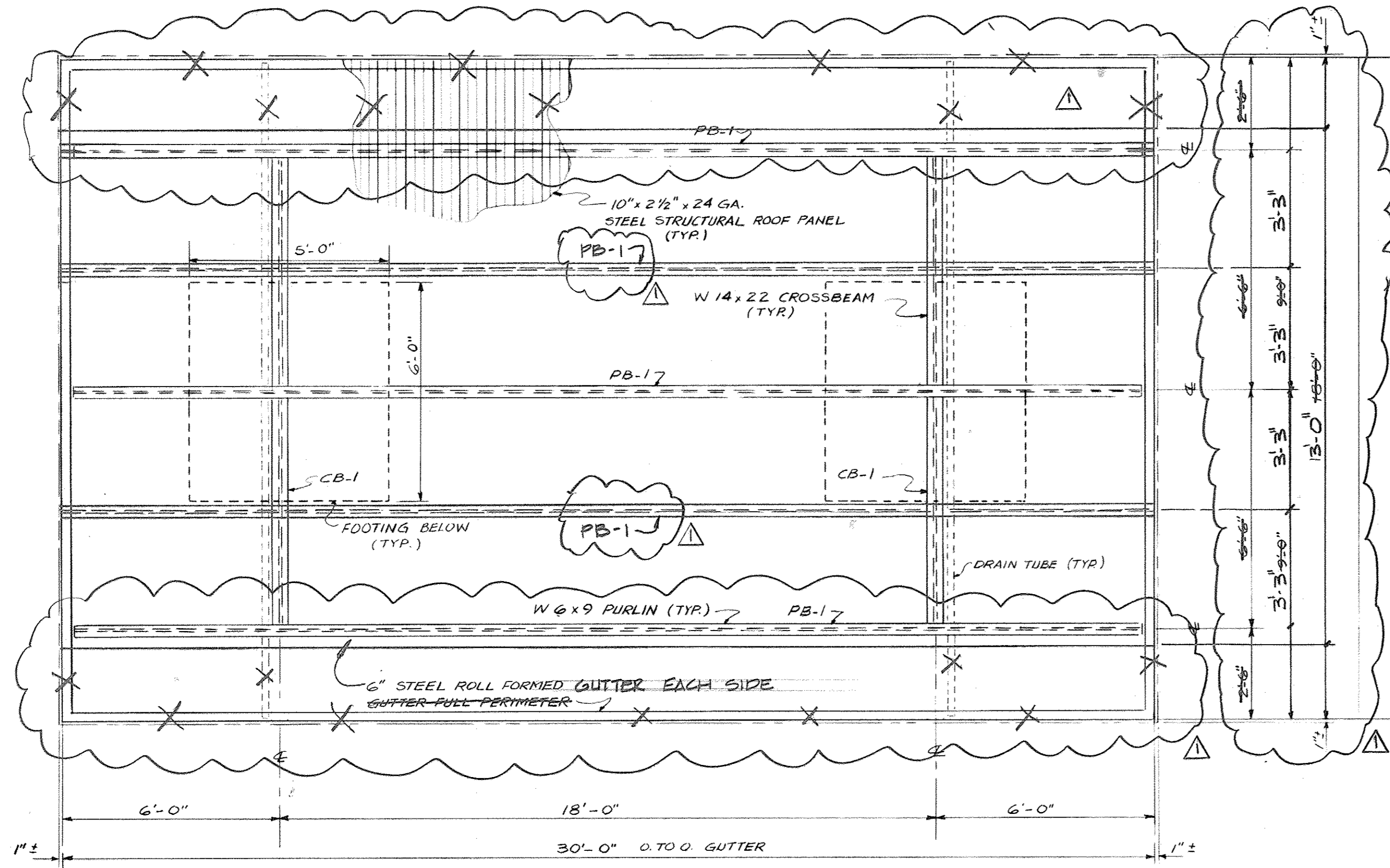
CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
 STRUCTURAL ENGINEER: GODESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
 FIRE PROTECTION ENGINEER: STANTON ENGINEERING



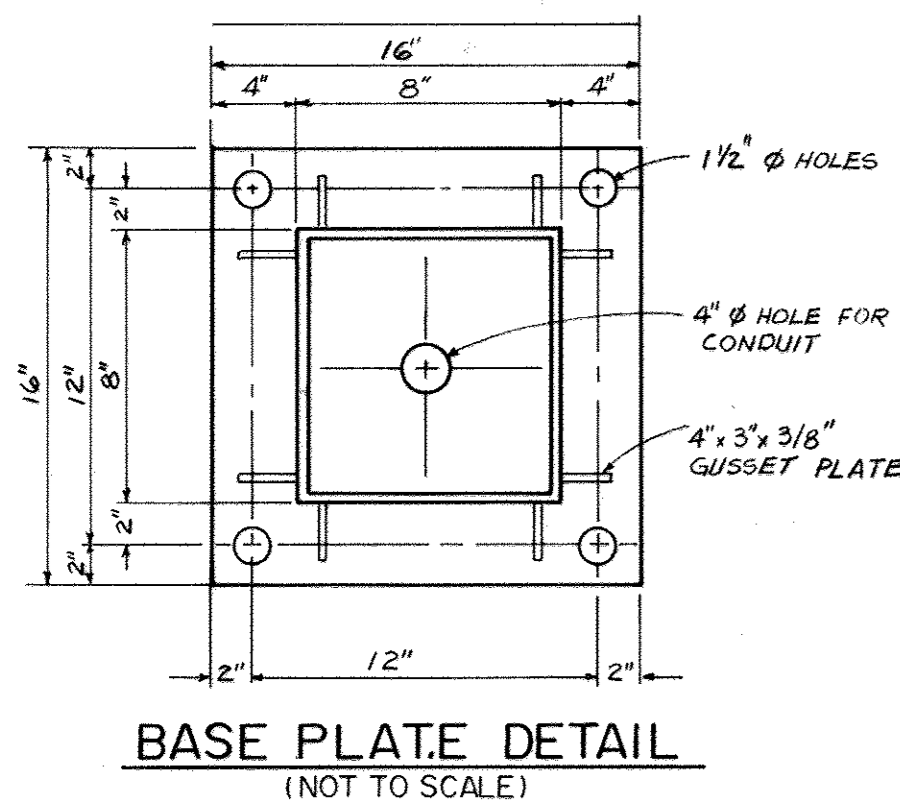
REVISIONS

GENERAL NOTE:

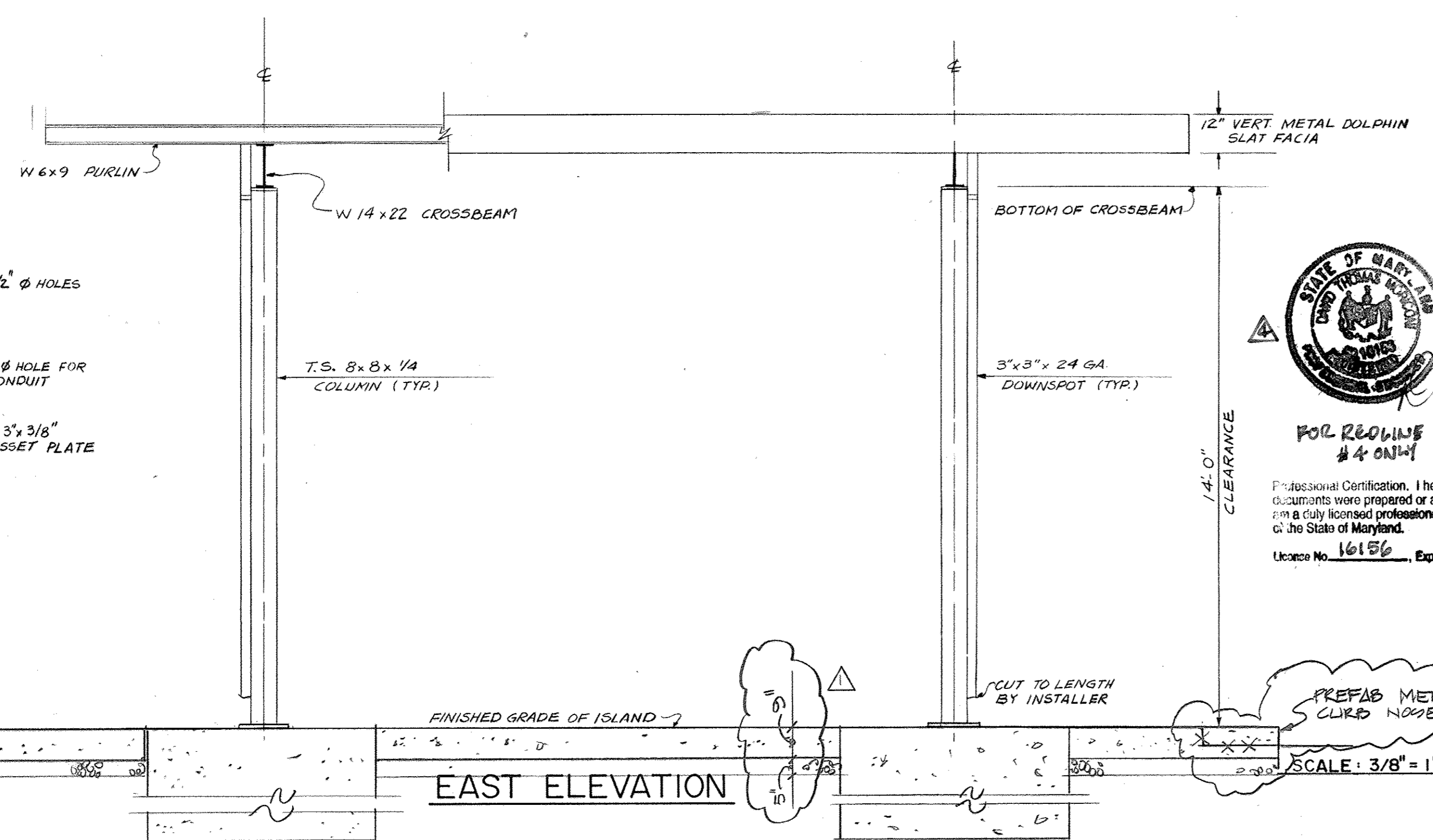
1. FOR DESIGN CRITERIA, SEE STRUCTURAL DRAWINGS.



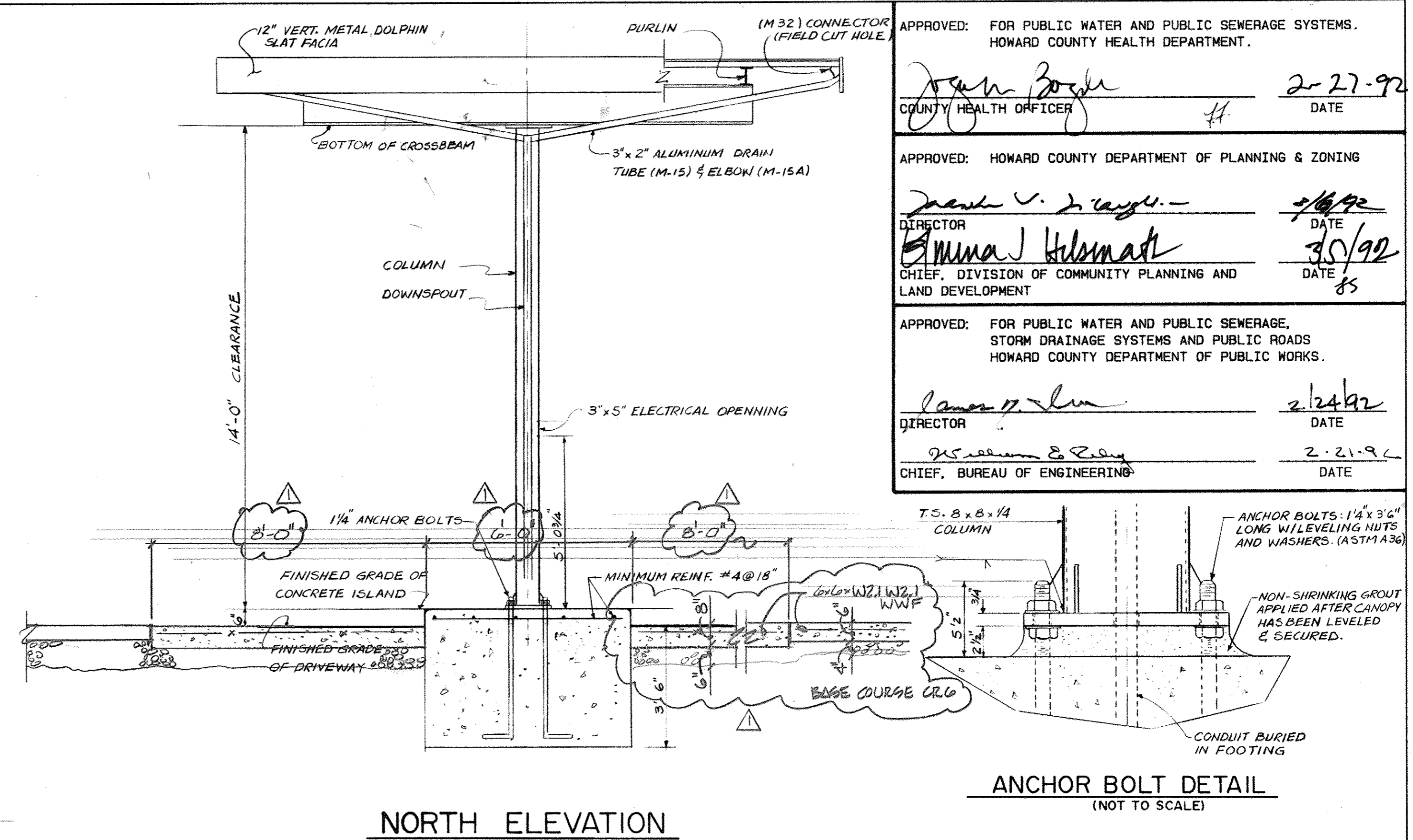
FRAMING PLAN



BASE PLATE DETAIL
(NOT TO SCALE)

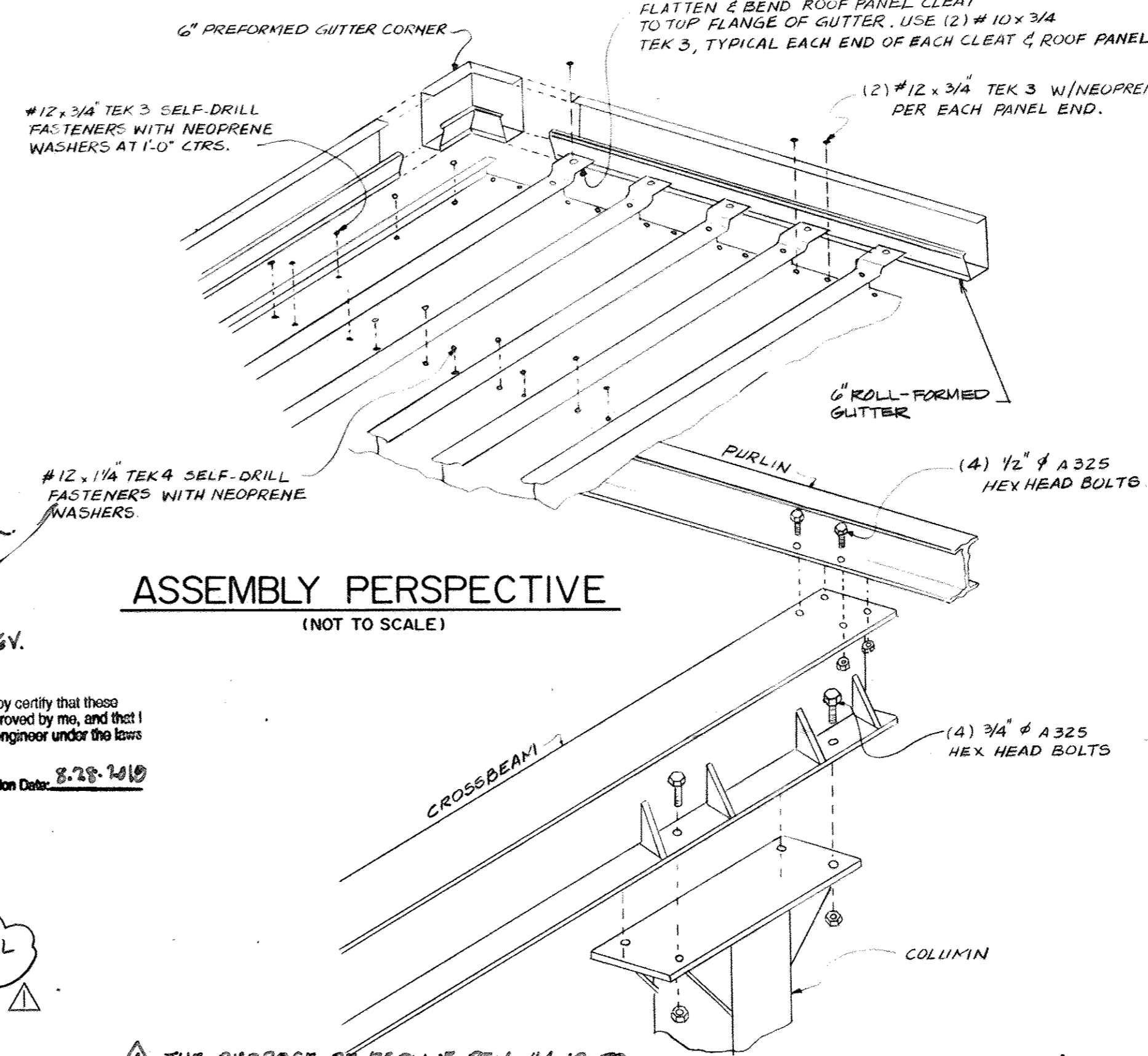


EAST ELEVATION

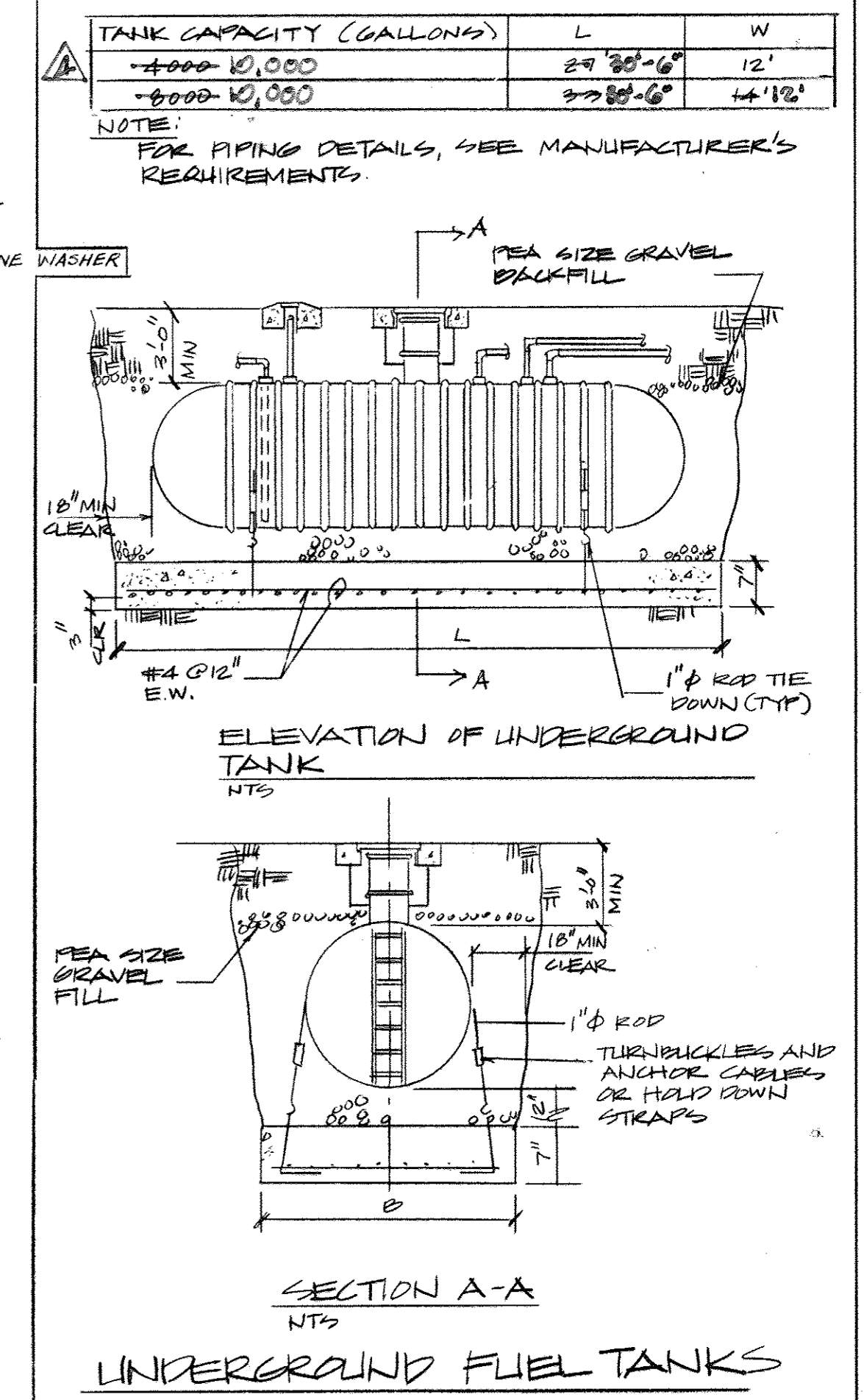


NORTH ELEVATION

ANCHOR BOLT DETAIL
(NOT TO SCALE)



ASSEMBLY PERSPECTIVE
(NOT TO SCALE)



UNDERGROUND FUEL TANKS

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.
HOWARD COUNTY HEALTH DEPARTMENT.

John Zogh 2-27-92
COUNTY HEALTH OFFICER # DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

James V. ... 2/28/92
DIRECTOR DATE

Anna J. Helms 3/5/92
CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE,
STORM DRAINAGE SYSTEMS AND PUBLIC ROADS
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

... 2/24/92
DIRECTOR DATE

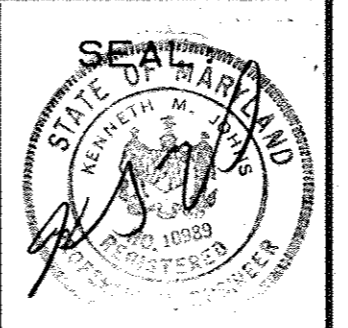
... 2-21-92
CHIEF, BUREAU OF ENGINEERING DATE

TANK CAPACITY (GALLONS)	L	W
4000-10,000	29' 30\"/>	

NOTE:
FOR PIPING DETAILS, SEE MANUFACTURER'S REQUIREMENTS.

STATE OF MARYLAND
Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

License No. 16156 Expiration Date: 8-28-2010



REVISIONS

AS BUILT	11/24/94
REMOVE/REMOVE UNDERGROUND FUEL TANKS	

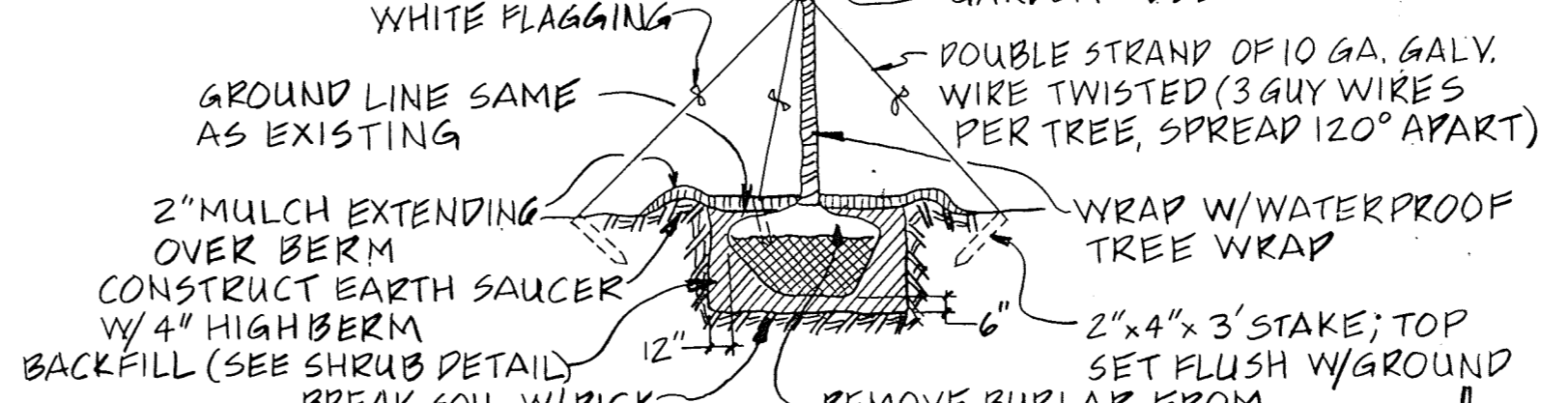
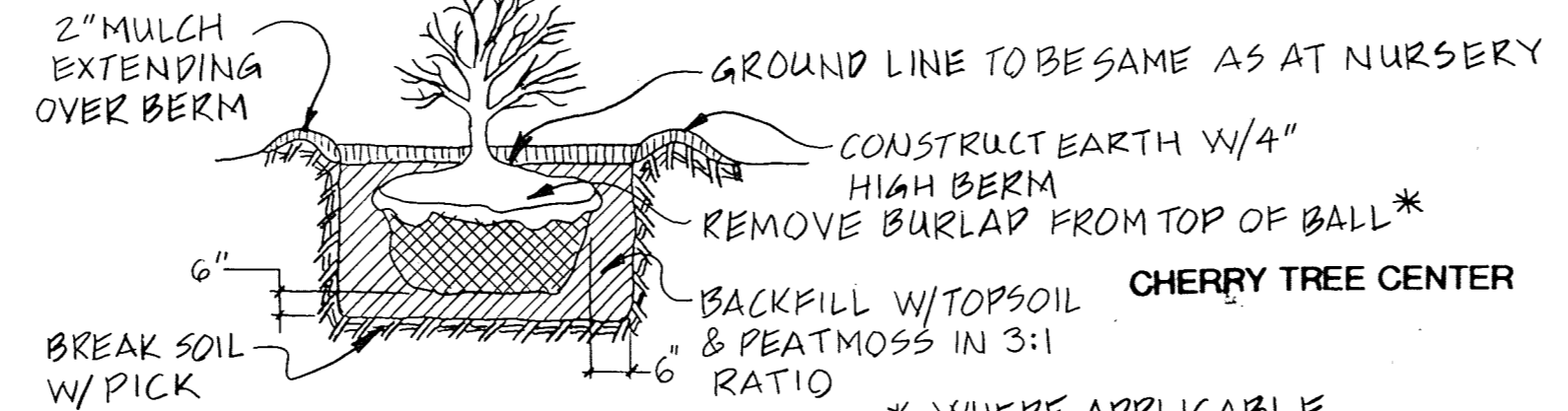
FUEL PUMP CANOPY	13 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 2-20-92 DRAWING NO. C-10.1

1650

ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia, MD, 21045 (301)995-4067

IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: GODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING



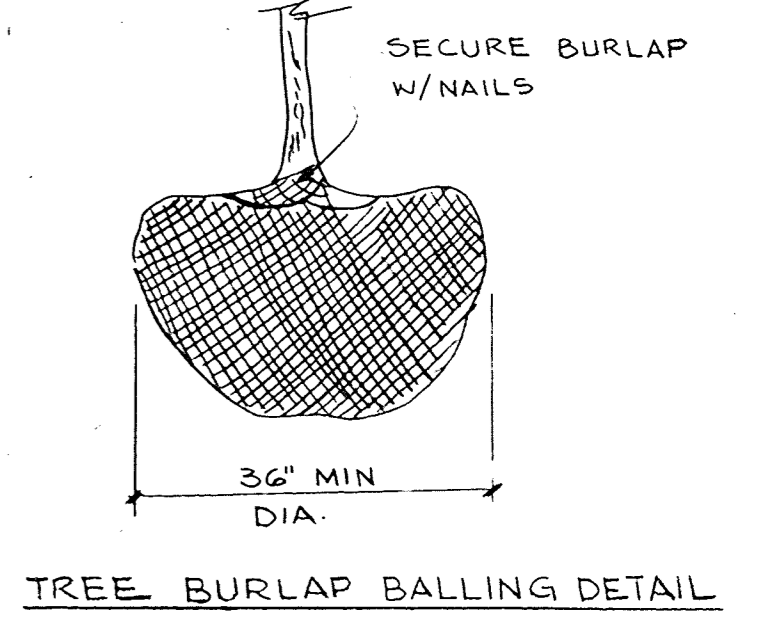
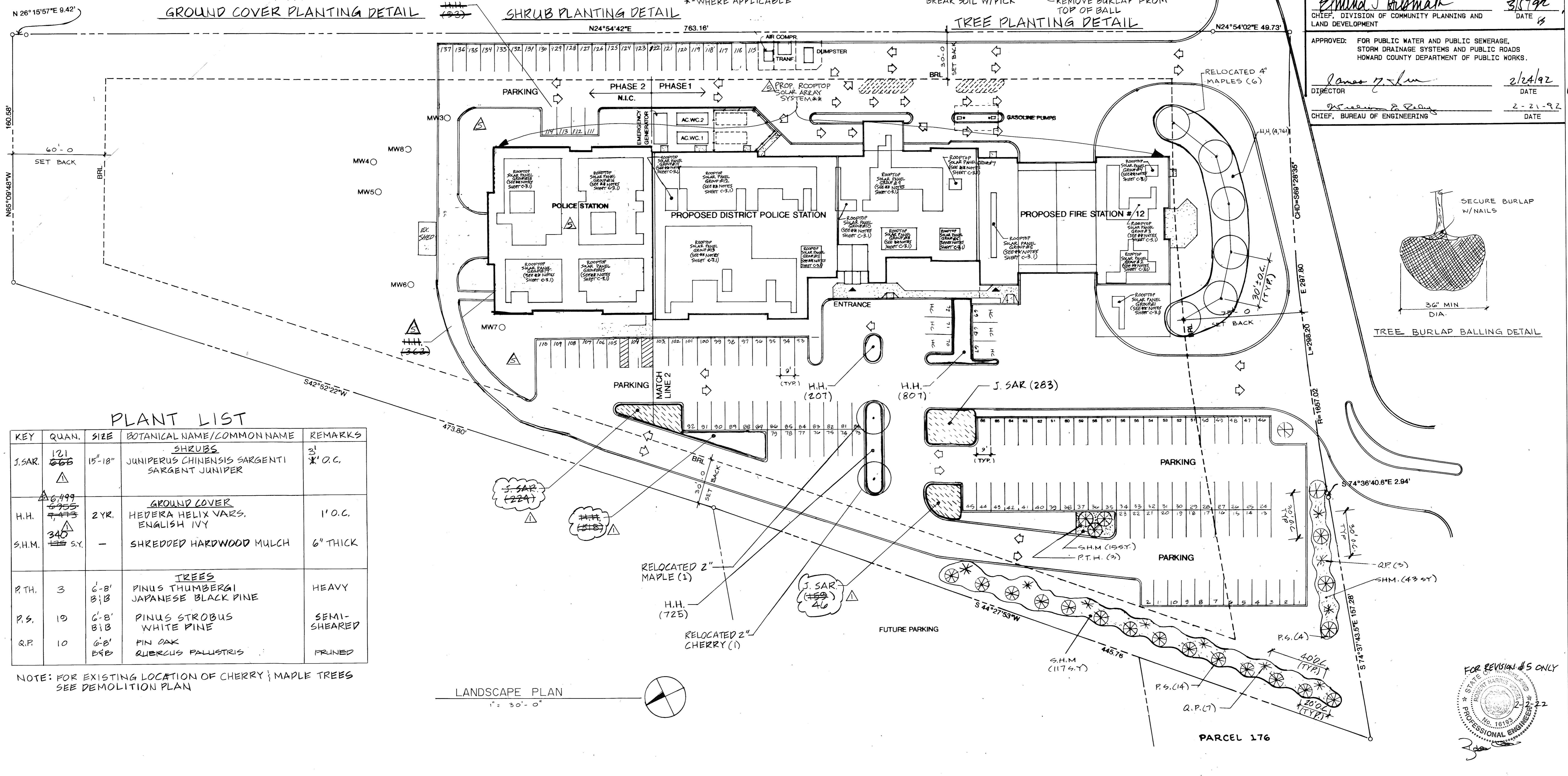
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.
 J. B. [Signature] 2-20-92
 COUNTY HEALTH OFFICER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
 [Signature] 2/6/92
 DIRECTOR DATE

[Signature] 3/5/92
 CHIEF, DIVISION OF COMMUNITY PLANNING AND LAND DEVELOPMENT DATE

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
 [Signature] 2/24/92
 DIRECTOR DATE

[Signature] 2-21-92
 CHIEF, BUREAU OF ENGINEERING DATE



PLANT LIST

KEY	QUAN.	SIZE	BOTANICAL NAME/COMMON NAME	REMARKS
SHRUBS				
J.SAR.	121 666	15"-18"	JUNIPERUS CHINENSIS SARGENTI SARGENT JUNIPER	3' * O.C.
GROUND COVER				
H.H.	6,499 7,755	2 YR.	HEDERA HELIX VARS. ENGLISH IVY	1' O.C.
S.H.M.	340 115 SY.	-	SHREDDED HARDWOOD MULCH	6" THICK
TREES				
P.T.H.	3	6'-8" B:B	PINUS THUMBERGI JAPANESE BLACK PINE	HEAVY
P.S.	10	6'-8" B:B	PINUS STROBUS WHITE PINE	SEMI-SHEARED
Q.P.	10	6'-8" B:B	PIN OAK QUERCUS PALUSTRIS	PRUNED

NOTE: FOR EXISTING LOCATION OF CHERRY & MAPLE TREES SEE DEMOLITION PLAN

LANDSCAPE PLAN
 1" = 30'-0"

FOR REVISION #5 ONLY
 [Professional Engineer Seal]
 2-2-92

1650

ARCHITECTURAL TECHNOLOGIES INC.
 Architects and Construction Consultants
 9192 Red Branch Rd. Suite 300
 Columbia MD. 21045 (301) 995-4067

IN ASSOCIATION WITH:
 CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
 STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
 FIRE PROTECTION ENGINEER: STANTON ENGINEERING

SEAL
 [Professional Engineer Seal]

NO.	REVISIONS	DATE
AS BUILT		11/24/94
REVIS THE PLAN TO SHOW ROOFTOP SOLAR PANEL INSTALLATION, THE EXISTING FACILITIES ON THE SITE AND EXISTING BUILDING CONFIGURATION		6-9-21

LANDSCAPE PLAN
 14 OF 90
 HOWARD COUNTY PUBLIC SAFETY COMPLEX
 SCAGGSVILLE ANNEX
 11226 ROUTE 216
 LAUREL, MD. 20707
 CAPITAL PROJECT NO. C-0227
 DATE: 2-20-92
 DRAWING NO. L-L1

ARCHITECTURAL ABBREVIATIONS

ABV ABOVE	AD ABOVE FINISHED FLOOR	AD ACCESS DOOR	AC ACUSTIC(AL)	ACPL ACOUSTICAL PLASTER	ATC ACOUSTICAL TILE CEILING	ACP ACRYLIC PLASTIC	ADD ADDENDUM	ADH ADHESIVE(LY)	ADDL ADDITIONAL	ADJ ADJACENT	ADJT ADJUSTABLE	ALT ALTERNATE(ING)	AL ALUMINUM	AB ANCHOR BOLT	ANGLE	ANOD ANODIZED	APX APPROXIMATE	ARCH ARCHITECT(URAL)	ASB ASBESTOS	ASPH ASPHALT	AT ASPHALT TILE	AUTO AUTOMATIC	BSP BACKSPASH	BSMT BASEMENT	BM BEAM	BET BETWEEN	BVL BEVEL(ED)	BIT BITUMINOUS	BLK BLOCK(ING)	BL BORROWED LIGHT	BD BOARD	BS BOTH SIDES	BW BOTH WAYS	BOT BOTTOM	BC(S) BRICK COURSE(S)	BLDG BUILDING	BB BULLETIN BOARD	CLG CEILING	CERT CERAMIC TILE	CIR CENTER	CIRC CIRCUMFERENCE	CLR CLEAR(ANCE)	CO CLEANOUT	CLO CLOSET	COL COLUMN	COMB COMBINATION	COND CONDUCTIVE	COMP COMPRESS(ED) (ION) (IBLE)	CONC CONCRETE	CMU CONCRETE MASONRY UNIT	CSML CONDUCTIVE SEAMLESS	CV CONDUCTIVE VINYL	CONF CONFERENCE	CONST CONSTRUCTION	CONT CONTINUOUS	CONTR CONTRACTOR	CG CORNER GUARD	CORR CORRUGATED	CFL COUNTERFLASHING	CSK COUNTERSUNK	CC(T) CURTICLE CURTAIN (AND TRACK)	CT CURTAIN TRACK	CYL CYLINDER	DB DECIBEL	DP DEEP, DEPTH	DEMO DEMOLISH, DEMOLITION	DMT DEMOUNTABLE	DEP DEPRESS(ED) (ION)	DIAG DIAGONAL	DIA DIAMETER	DIM DIMENSION	DPR DISPENSER	DIV DIVISION	DR DOOR	DBL DOUBLE	DA DOUBLE ACTING	DTA DOVETAIL ANCHOR	DTS DOVETAIL ANCHOR SLOT	DWL DOWEL	DS DOWNSFOOT	DRAIN DRAIN	DWR DRAWER	DWG DRAWING	DF DRINKING FOUNTAIN	EA EACH	EF EACH FACE	EFV EACH FACE VERTICALLY	EM EACH WAY	E EAST	ELEC ELECTRIC(AL)	EMC ELECTRIC WATER COOLER	EL ELEVATION	ELEV ELEVATOR	EMER EMERGENCY	EC EMPTY CONDUIT	ENC ENCLOSE(URE)	EG END GUARD	EJ EQUAL	EX EXISTING	EB EXPANSION BOLT	EJ EXPANSION JOINT	EXP EXPANSION	EPO EXPOSED	EXT EXTERIOR	FEM FEMALE	FLEX FLEXIBLE	FIN FINISH(ED)	FF FINISHED FLOOR	FA FIRE ALARM	FE FIRE EXTINGUISHER	FEC FIRE EXTINGUISHER CABINET	FECB FIRE EXTINGUISHER AND CABINET	FHC FIRE HOSE CABINET	FP FIREPROOF	FI FLOOR(ING)	FD FLOOR DRAIN	FT FOOT	FTG FOOTING	FIN FOUNDATION	FR FIRE RATED(ING)	GA GAUGE	GALV GALVANIZED	GI GALVANIZED IRON	GC GENERAL CONTRAC(OR)	GL GLASS, GLAZING	GMU GLAZED MASONRY UNIT	GST GLAZED STRUCTURAL TILE	GB GRAB BAR	GWB GYPSUM WALLBOARD	GFL GYPSUM LATH	GFP GYPSUM PLASTER	GYP GYPSUM	HCR HANGER	HDW HARDWARE	HT HEIGHT	HP HIGH POINT	HS HIGH STRENGTH	HC HOLLOW CORE	HM HOLLOW METAL	HK HOOK(ED)	HOR HORIZONTAL	HVV HORIZONTALLY & VERTICALLY	HB HOSE BIBB	HR HOUR	IMP IMPERIAL	INCR INCINERATOR	INCL INCLUDE(D) (ING)	ID INSIDE DIAMETER	INS INSULATE(D) (ION)	IF INSIDE FACE	INWG INTEGRAL	INT INTERIOR	INV INVERT	IPS IRON PIPE SIZE	JC JANITORS CLOSET	JT JOINT	JST JOIST	JR JUNIOR	KIT KITCHEN	KB KNEE BRACE	KO KNOCKOUT	LBL LABEL(ED)	LAB LABORATORY	LAM LAMINATE(D)	LAV LAVATORY	LH LEFT HAND	LL LEAD LINE(S) (ING)	LT LIGHT	LPR LIGHTPROOF	LSL LIGHT-SEALED	LW LIGHTWEIGHT	LC LINEN CHUTE	LKR LOCKER	LG LONG, LENGTH	LP LOW POINT	LVR LOUVER	MCJ MASSONRY CONTROL JOINT	MH MANHOLE	MFR MANUFACTURER	MS MATSHUTE	MAS MASONRY	MO MASONRY OPENING	MIL MATERIAL(S)	MAX MAXIMUM	MECH MECHANICAL	MED MEDIUM	MET METAL	M METER	MM MILLIMETER	MIN MINIMUM	MISC MISCELLANEOUS	MR MOP RECEPTOR	MT MOUNTED(ING)	MOV MOVABLE	MULL MULLION	NOM NOMINAL	N NORTH	NIC NOT IN CONTRACT	NTS NOT TO SCALE	NO NUMBER	OBS OBSCURE	OFF OFFICE	OC ON CENTER	OPG OPENING	OPP OPOSITE	OD OUTSIDE DIAMETER	OF OUTSIDE FACE	OZ OUNCE	OA OVERALL	OH OVERHEAD	P PAINT(ED)	PR PAIR	PNL PANEL	PN PARTITION	PERF PERFORATED	PERI PERIMETER	PLAS PLASTER	PLAM PLASTIC LAMINATE	PL PLATE	PWD PLYWOOD	PTS PNEUMATIC TUBE STATION	PT POINT	POLY POLYETHYLENE	PVC POLYVINYL CHLORIDE	PSF POUNDS PER SQUARE FOOT	PSI POUNDS PER SQUARE INCH	PREP PREPARATION	PROJ PROJECTED(ION)	QT QUARRY TILE	RAD RADIUS	RAC RAINWATER CONDUCTOR	REF REFERENCE	REFR REFRIGERATOR	REINF REINFORCE(D) (ING)	REQ REQUIRED	RES RESILIENT	REV REVISION	RH RIGHT HAND	R RISER	RD ROOF DRAIN	RFG ROOFING	RM ROOM	RO ROUGH OPENING	RB RUBBER BASE	SND SANITARY NAPKIN DISPOSAL	SNV SANITARY NAPKIN VENDOR	SCH SCHEDULE	SSK SERVICE SINK	SH SHELF, SHELVING	SIM SIMILAR	SML SEAMLESS	SECY SECRETARY	SW SHEAR WALL	SG SLAB ON GRADE	SC SOLID CORE	S SOUTH	SPEC SPECIFICATION	SPF STRAYED FIREPROOFING	SQ SQUARE	SST STAINLESS STEEL	STD STANDARD	STA STATION	ST STEEL	STO STORAGE	STR STRUCTURAL	SUS SUSPENDED	SYM SYMMETRICAL	TKB TACKBOARD	TEL TELEPHONE	TV TELEVISION	TC TERRA COTTA	TZ TERRAZZO	THK THICK(NESS)	THR THRESHOLD	TOIL TOILET	TPIN TOILET PARTITION	TOL TOLERANCE	T&G TONGUE AND GROOVE	TW TOP OF WALL	TB TOWEL BAR	TNSV TRANSVERSE	T TREAD	TYP TYPICAL	UC UNDERCUT	UNF UNFINISHED	UR URINAL	VB VAPOR BARRIER	VIF VERIFY IN FIELD	VERT VERTICAL	VB VINYL BASE	VVC VINYL WALL COVERING	VT VINYL TILE	VP VISION PANEL	WP WATERPROOFING	W&F WELDED WIRE FABRIC	W WEST	WDN WINDOW	WG WIRE GLASS	W WITH	W/O WITHOUT	WD WOOD	WB WOOD BASE	WI WROUGHT IRON
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ARCHITECTURAL SYMBOLS LEGEND

	WALL TYPE		INSULATION
	FIRE WALL		COMPACT EARTH
	CMU WALL		CRUSHED STONE
	CONCRETE		NORTH DIRECTION
	WINDOW		STEEL TUBE
	WINDOW NO.		MILLWORK
	DOOR		
	DOOR NO.		
	STEEL		
	WALL SECTION		
	ELEVATION		
	WOOD BLOCK		
	WOOD FINISH		

ABBREVIATIONS & SYMBOLS 15 OF 90

REVISIONS

HOWARD COUNTY
PUBLIC SAFETY COMPLEX

SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD. 20707

CAPITAL PROJECT NO.
C - 0227

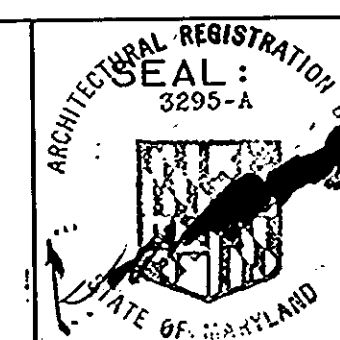
DATE: 3-25-92

DRAWING NO.

A 11

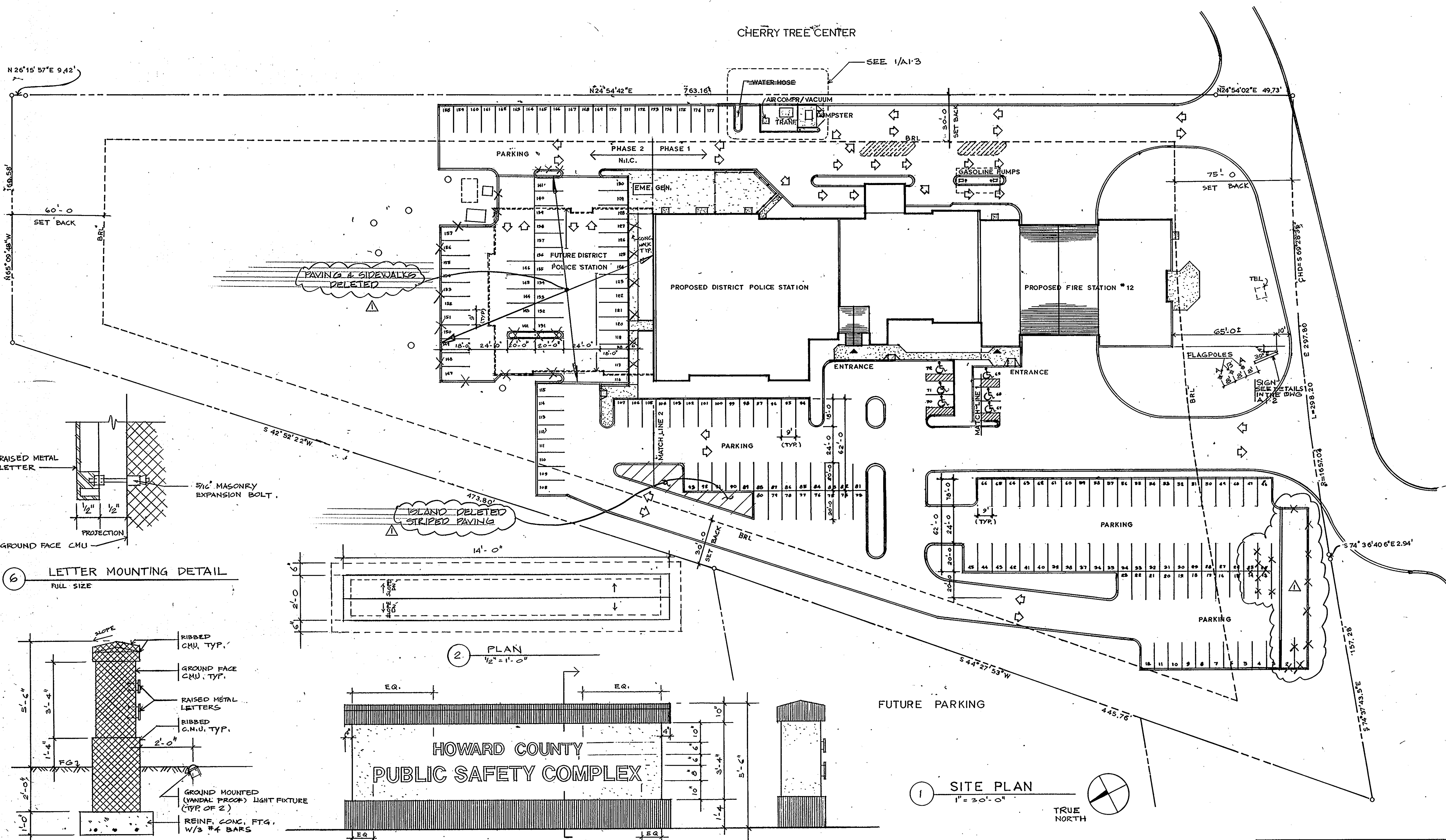
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STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING



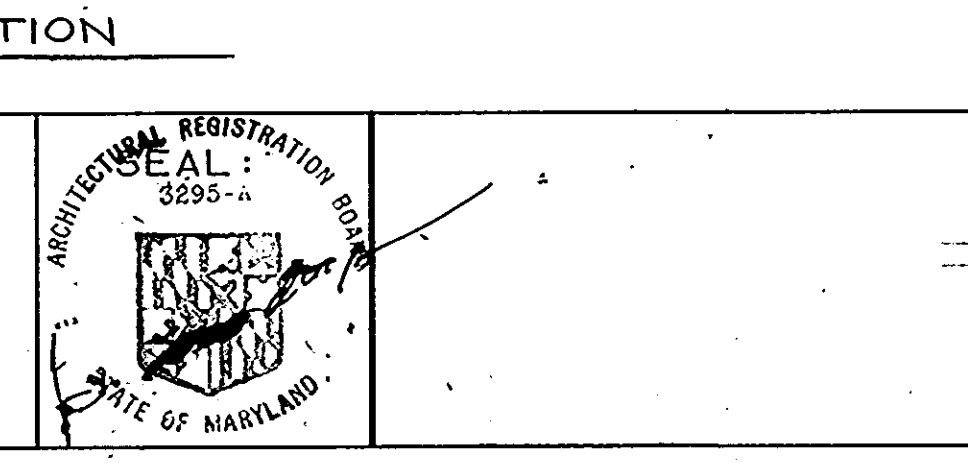
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Architects and Construction Consultants
9192 Red Branch Rd. Suite 300
Columbia MD. 21045. (301) 995-4067

1650



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 Architects and Construction Consultants
 9192 Red Branch Rd. Suite 300
 Columbia MD. 21045 (301) 995-4067

IN ASSOCIATION WITH:
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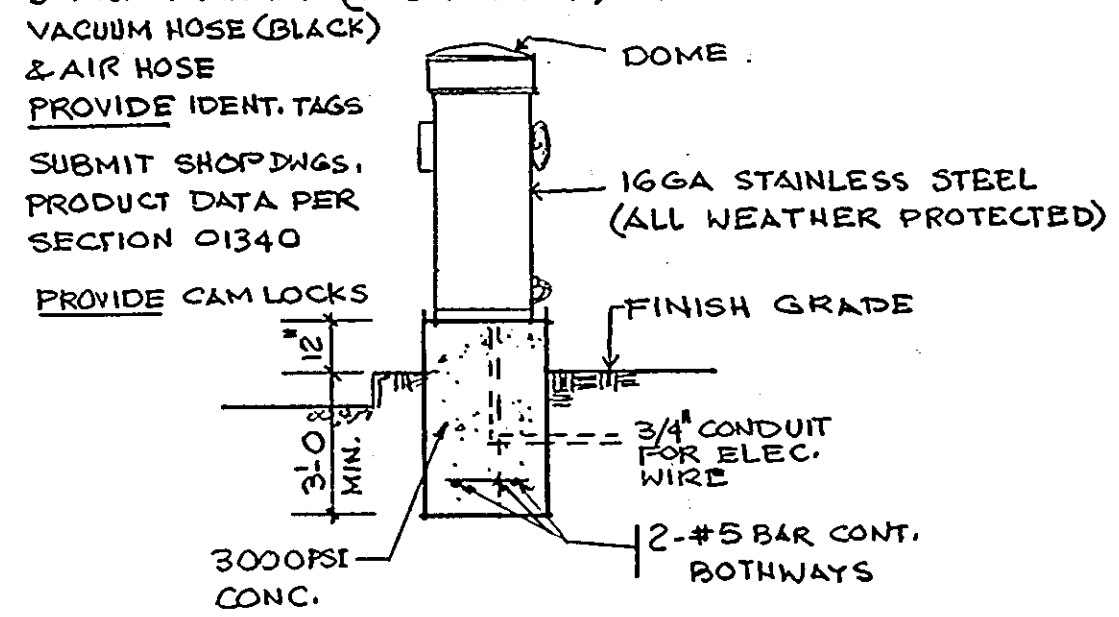


REVISIONS	
AS BUILT	11/24/94

SITE PLAN & DETAILS		16 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707		DATE: 3-25-92 DRAWING NO: A1.2

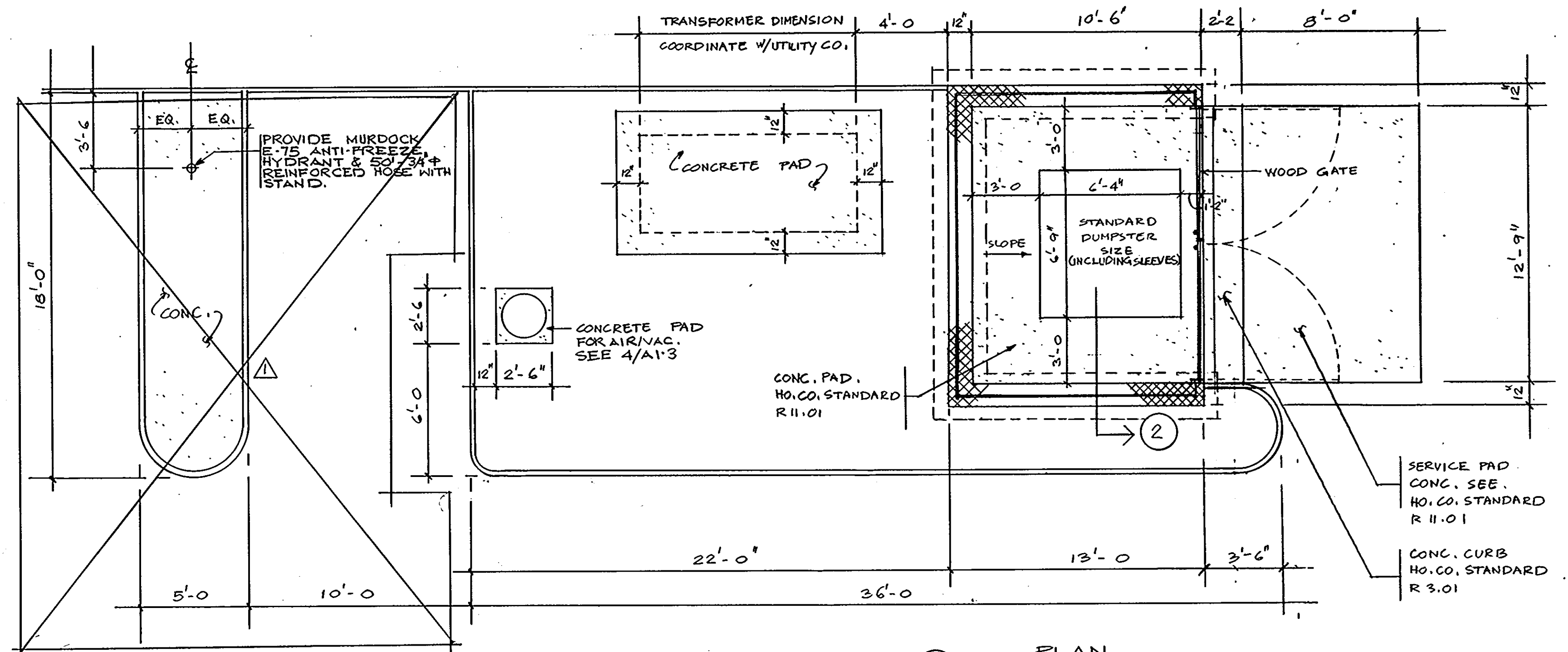
1650

PROVIDE: AIR/VAC AS MANUFACTURED BY AMERICAN PRODUCTS CO. (1-800-542-3336) MODEL# K552-750-3/HFP, 120VAC, 40AMP CRK BRKR, 60 HZ, SINGLE PHASE W/GFCI.
 NO COIN OPERATION
 3 YRS. WARRANTY (LABOR & MAT.)
 VACUUM HOSE (BLACK)
 2 AIR HOSE
 PROVIDE IDENT. TAGS

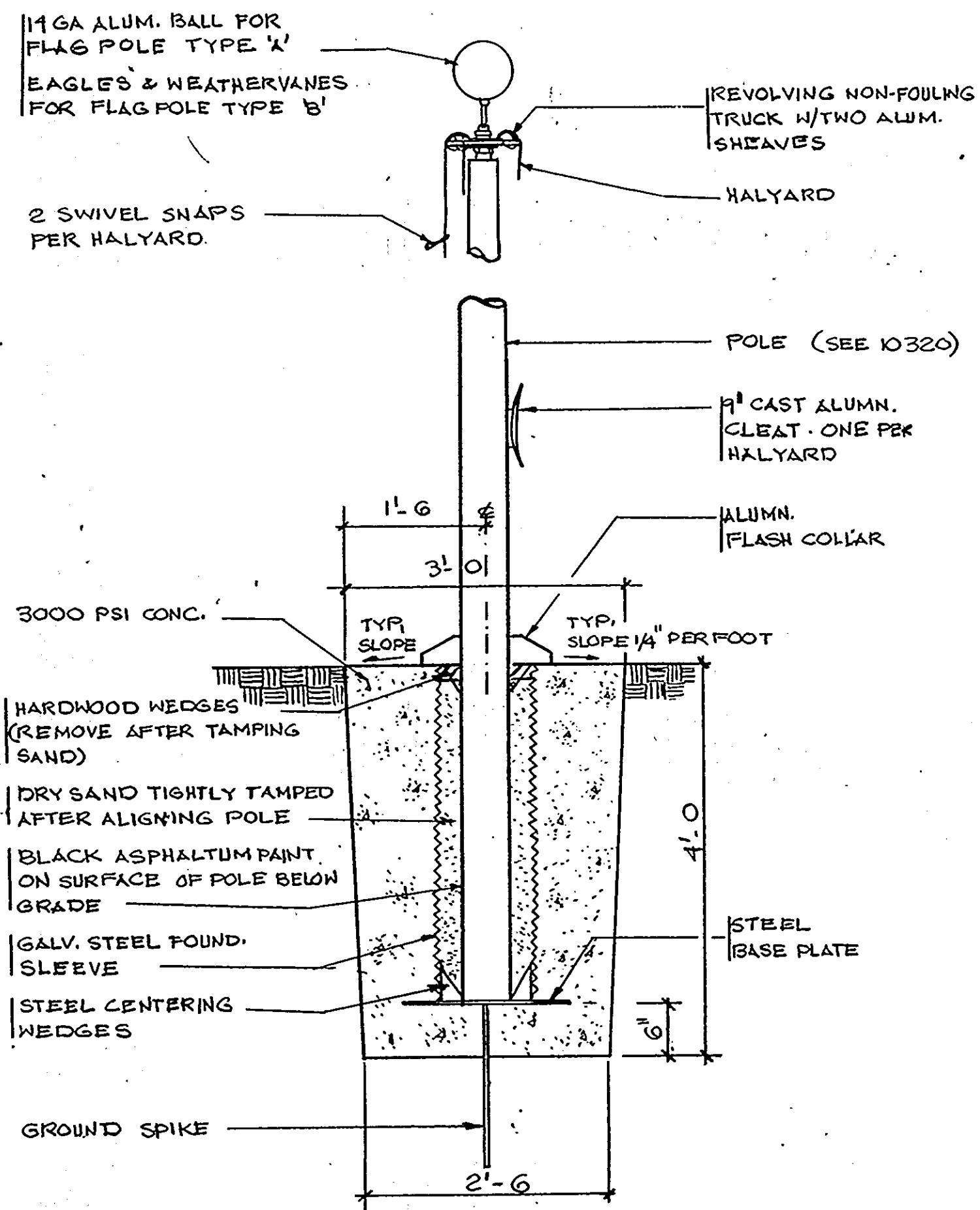


PROVIDE MAINTENANCE/OPERATION/SAFETY MANUALS - 4 BOUND COPIES.

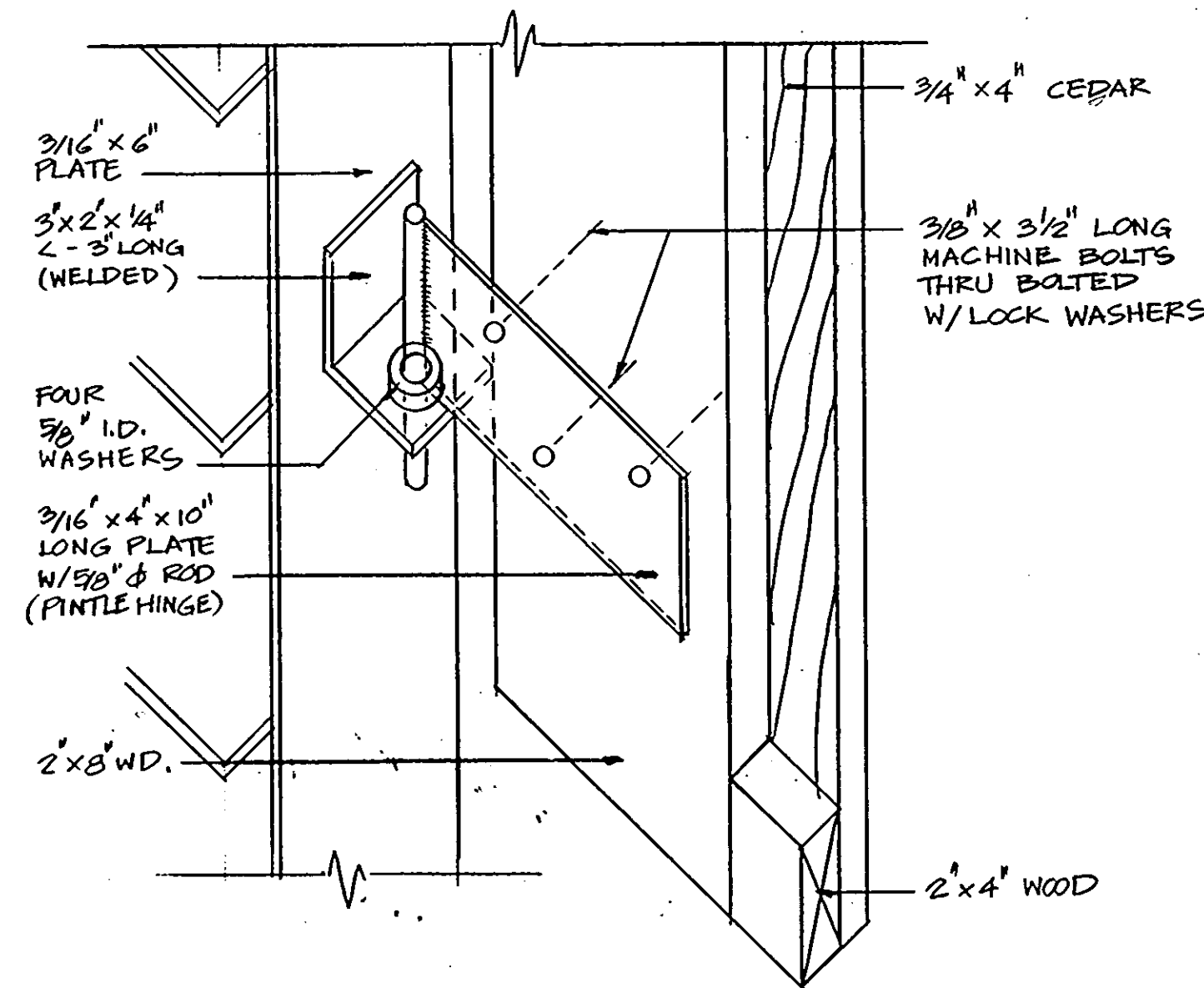
4. AIR/VAC DETAIL NO SCALE



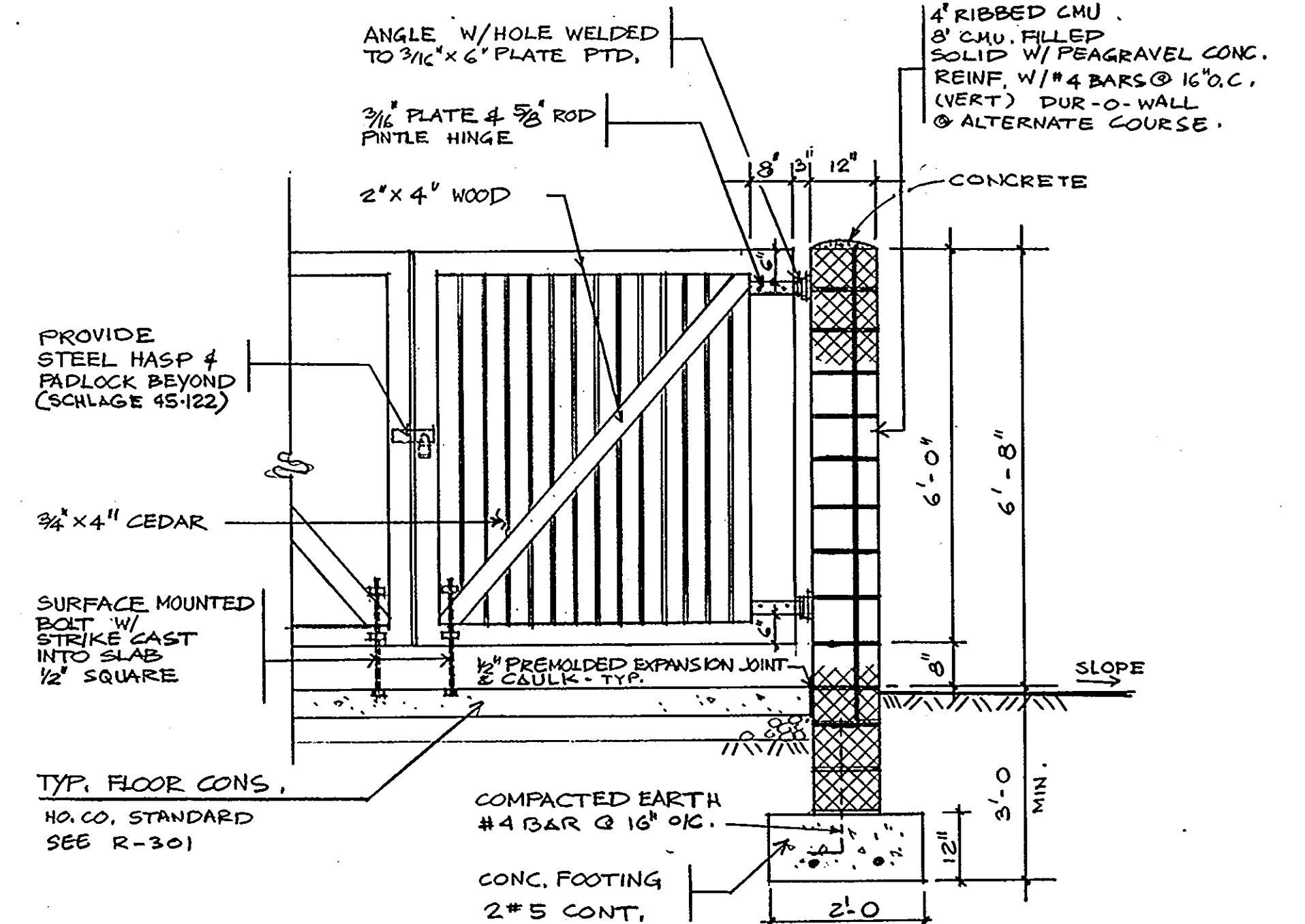
1. PLAN
1/4" = 1'-0"



5. TYP. FOUNDATION DETAIL FOR FLAG-POLE - TYPE 'A' & 'B' NO SCALE

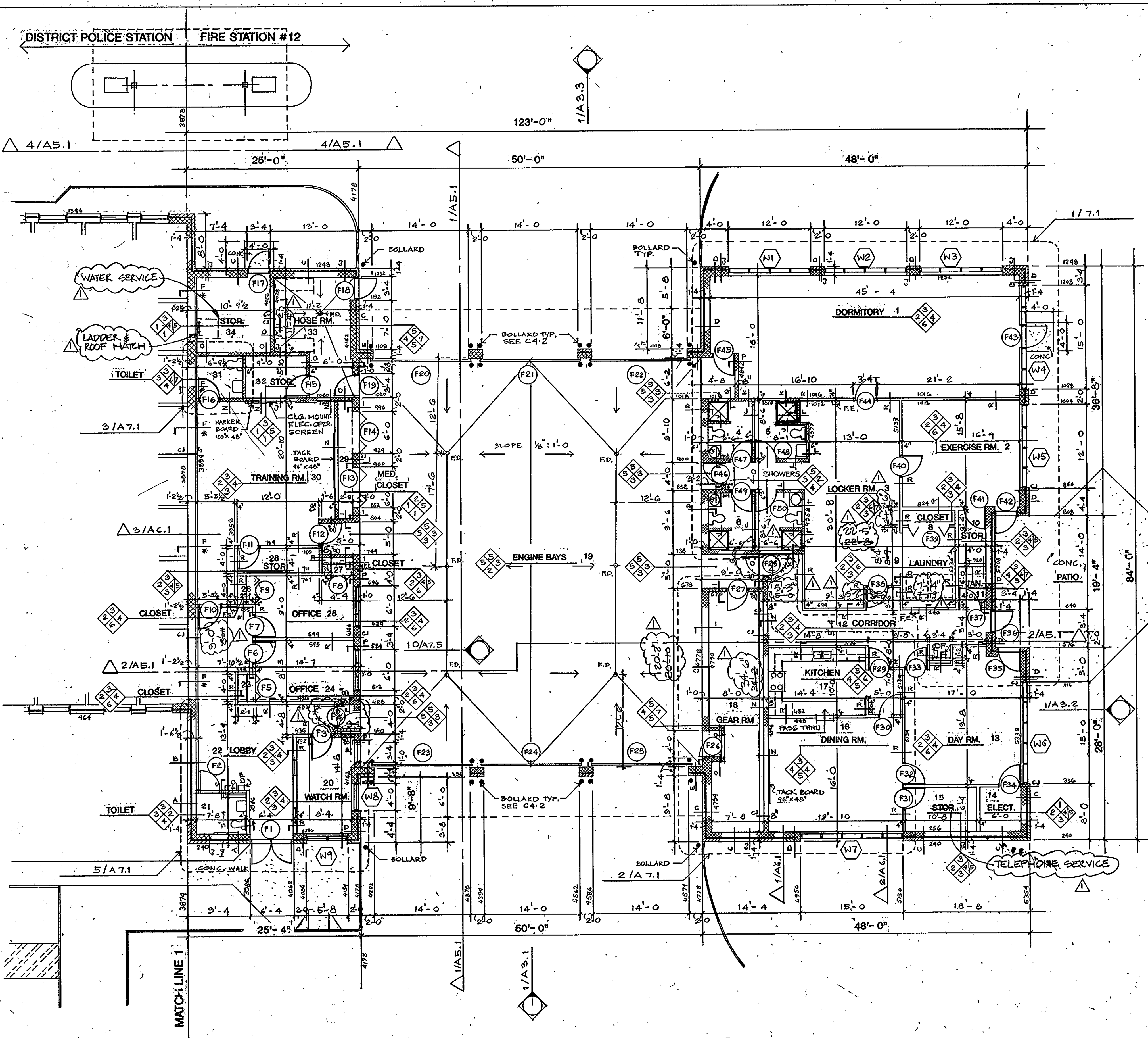


3. GATE HINGE DETAIL
3/8" = 1'-0"



2. SECTION
1/2" = 1'-0"

1650



1. FIRST FLOOR PLAN 1/8" = 1' - 0"
PHASE 1.

2 KEY PLAN - FIRE RATED PARTITION

3 FINISH SCHEDULE

FLOOR	CEILING
1. CONCR. SEALED	1. EXPOSED TO STRUCTURE
2. CONG. TOPPING	2. PAINTED G.W.B.
3. VINYL COMP. TILE	3. SUSP. ACoust. TILE
4. CERAMIC TILE	4. SECURITY METAL TILE
5. QUARRY TILE	5. EPOXY PAINTED G.W.B.
6. CARPET	6. EPOXY PAINTED G.W.B.
BASE	
1. NONE	
2. VINYL	
3. CERAMIC TILE	
4. QUARRY TILE	
5. GLAZED CHU	
WALL	
1. NO FINISH	
2. CERAMIC TILE	
3. GLAZED CHU	
4. PAINTED G.W.B.	
5. PAINTED CHU	
6. EPOXY PAINTED G.W.B.	
7. EPOXY PAINTED CHU	

LEGEND

ONE HOUR (NOT RECD)
TWO HOUR
THREE HOUR
1HR. SMOKEPROOF

NOTE:
ALL WALLS SHOWN FIRE RATED OR SMOKEPROOF SHALL CONTINUE UP TO THE SOFFIT OF ROOF DECK. ALL OTHER WALLS SHALL EXTEND 2" ABOVE CEILING LEVEL.

4. WALL TYPES:

A EXTERIOR WALL

B INTERIOR WALL INDICATES THAT WALL SHALL EXTEND TO A MINIMUM OF 8" ABOVE THE CEILING. HOWEVER, METAL STUD WALL SHALL CONTINUE TO THE UNDER SIDE OF THE ROOF DECK.

C INTERIOR WALL SHALL CONTINUE TO THE UNDER SIDE OF THE ROOF DECK.

D INTERIOR WALL DESIGNATES THE FOLLOWING:
CHU WALL FILLED ENTIRELY WITH GROUT PER SPEC. HORIZONTAL TRUSS TYPE REINFORCED AT EVERY ALTERNATE COURSE AND VERTICAL #5 BARS @ 16" O.C.

E EXTERIOR WALL DESIGNATES INTERIOR BACK-UP WALL FILLED ENTIRELY WITH GROUT. HORIZONTAL TRUSS TYPE REINFORCEMENT AT EVERY SECOND COURSE AND VERTICAL #5 BARS @ 16" O.C.

F 1 OR 2 HOUR RATE COMPLY WITH U-906 6" OR 8" OR 12" GLAZED TILE (CHU) ON BOTH SIDES. DUR-O-WALL AT EVERY ALTERNATE COURSE.

G 6", 8" OR 12" GLAZED TILE (CHU) ON BOTH SIDES. DUR-O-WALL AT EVERY ALTERNATE COURSE.

H 1 OR 2 HOUR RATE-COMPLY WITH U-906 6" OR 8" OR 12" GLAZED TILE (CHU) 14" HT ABOVE 14" PLAIN PAINTED CHU WALL. DUR-O-WALL AT EVERY ALTERNATE COURSE ON OTHER SIDE 7/8" METAL FURRING CHANNELS @ 24" O.C. & 5/8" G.W.B.

I 6" OR 12" GLAZED TILE (CHU) 14" HT. ABOVE 14" PLAIN PAINTED CHU WALL. DUR-O-WALL AT EVERY ALTERNATE COURSE ON OTHER SIDE CERAMIC TILE

J 1 HOUR RATE - COMPLY WITH U-405 4" METAL STUDS @ 24" O.C. 5/8" G.W.B ON ONE SIDE ON OTHER SIDE CERAMIC TILE ON 5/8" WATER RESISTANT BOARD.

K 1 HOUR RATE - COMPLY WITH U-405 4" METAL STUDS @ 24" O.C. 5/8" G.W.B ON ONE SIDE ON OTHER SIDE CERAMIC TILE ON 5/8" WATER RESISTANT BOARD.

L CHASE WALL 4" METAL STUDS @ 24" O.C. CERAMIC TILE ON 1/2" WATER RESISTANT BOARDS ON BOTH SIDES.

M 1 OR 2 HOUR RATE-COMPLY WITH U-906 6" OR 8" OR 12" CHU WALL. DUR-O-WALL AT EVERY ALTERNATE COURSE. 5/8" G.W.B ON 7/8" METAL FURRING CHANNELS @ 24" O.C. - BOTH SIDES.

N 1 OR 2 HOUR RATE-COMPLY WITH U-906 6" OR 8" OR 12" CHU WALL. DUR-O-WALL AT EVERY ALTERNATE COURSE. 5/8" G.W.B ON 7/8" METAL FURRING CHANNELS @ 24" O.C.

O 4" CHU (RIBBED OR GROUND FACE) 2" AIR SPACE & INSULATION PER SPEC. 10" CHU. DUR-O-WALL AT EVERY ALTERNATE COURSE. 2-1/2" METAL STUDS @ 24" O.C. SOUND ATTENUATION BLANKET PER SPEC. 5/8" G.W.B.

P 4" CHU (RIBBED OR GROUND FACE) 2" AIR SPACE & INSULATION PER SPEC. 8" OR 10" CHU. DUR-O-WALL AT EVERY ALTERNATE COURSE.

Q 4" CHU (RIBBED OR GROUND FACE) 2" AIR SPACE & INSULATION PER SPEC. 8" OR 10" CHU. DUR-O-WALL AT EVERY ALTERNATE COURSE. 2-1/2" METAL STUDS @ 24" O.C. SOUND ATTENUATION BLANKET PER SPEC. 5/8" G.W.B.

R 4" CHU (RIBBED OR GROUND FACE) 2" AIR SPACE & INSULATION PER SPEC. 8" OR 10" CHU. DUR-O-WALL AT EVERY ALTERNATE COURSE. 1/2" G.W.B ON 7/8" METAL FURRING CHANNEL @ 24" O.C.

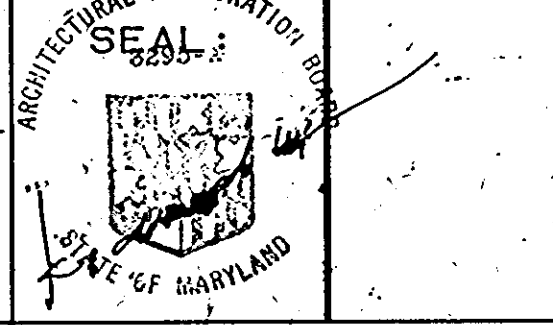
S 4" CHU (RIBBED OR GROUND FACE) 2" AIR SPACE & INSULATION PER SPEC. 10" CHU. DUR-O-WALL AT EVERY ALTERNATE COURSE. 14" HT. ABOVE 14" PLAIN CHU WALL PAINTED.

T 2 OR 3 HR. RATE-COMPLY WITH U-904 4" CHU PAINTED. 2" AIR SPACE & INSULATION PER SPEC. 10" CHU. DUR-O-WALL AT EVERY ALTERNATE COURSE. 2-1/2" METAL STUDS @ 24" O.C. SOUND ATTENUATION BLANKET PER SPEC. 5/8" G.W.B.

U 3 HR. RATE-COMPLY WITH U-904 4" CHU PAINTED. 2" AIR SPACE & INSULATION PER SPEC. 10" CHU. DUR-O-WALL AT EVERY ALTERNATE COURSE.

ARCHITECTURAL TECHNOLOGIES INC.
Architects and Construction Consultants
9192 Red Branch Rd. Suite 300
Columbia, MD. 21045 (301) 995-4067

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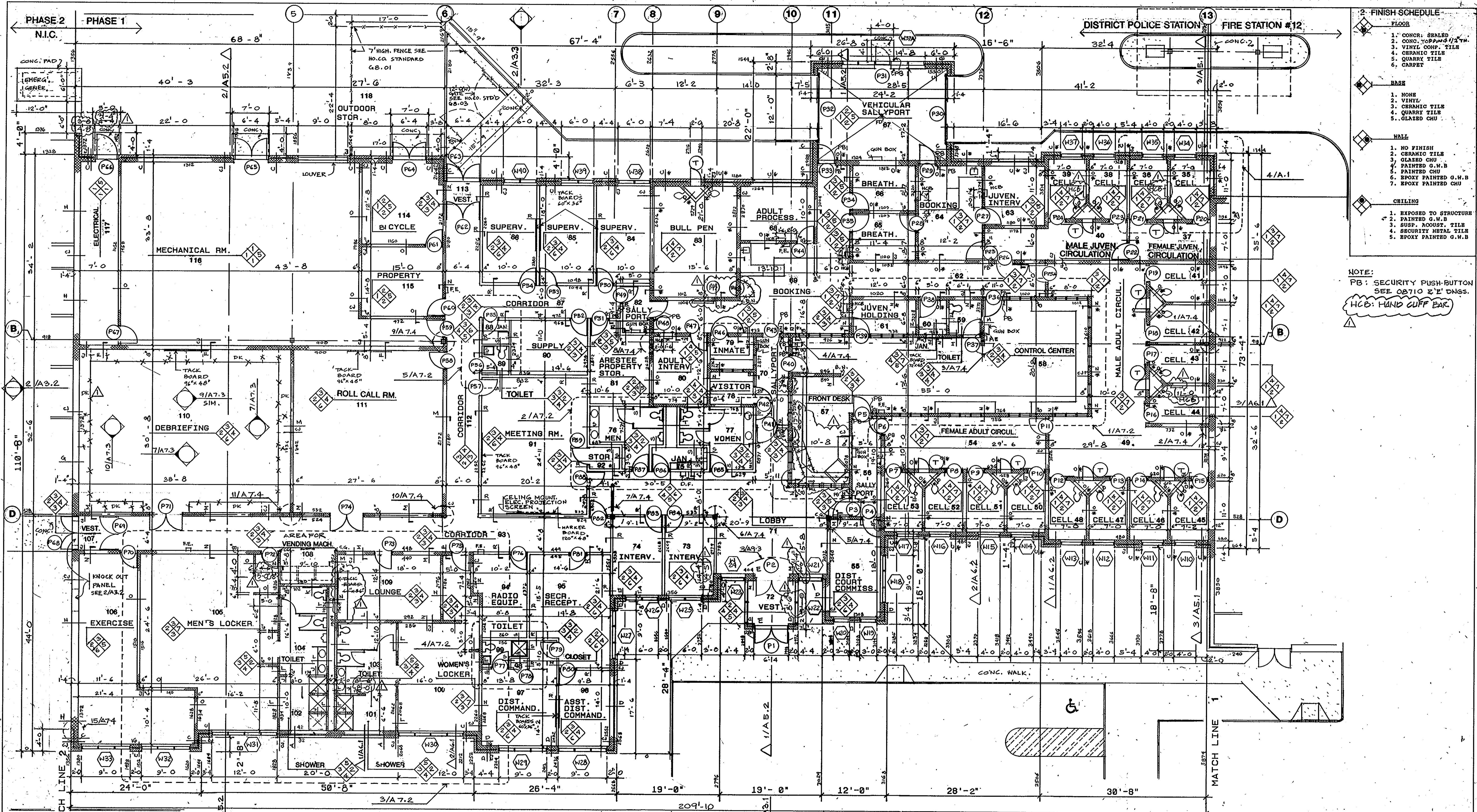


REVISIONS

NO. 01	DATE 11/24/92
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FIRST FLOOR PLAN POLICE STATION	18 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 3-25-92 DRAWING NO. A 2.1

1650



- 2. FINISH SCHEDULE**
- FLOOR**
1. CONCR. GRALED
 2. CONG. TOPPING 1/2" TH.
 3. VINYL COMP. TILE
 4. CERAMIC TILE
 5. QUARRY TILE
 6. CARPET
- BASE**
1. NONE
 2. VINYL
 3. CERAMIC TILE
 4. QUARRY TILE
 5. GRALED CHU
- HALL**
1. NO FINISH
 2. CERAMIC TILE
 3. GRALED CHU
 4. PAINTED G.W.B
 5. PAINTED CHU
 6. EPOXY PAINTED G.W.B
 7. EPOXY PAINTED CHU
- CEILING**
1. EXPOSED TO STRUCTURE
 2. PAINTED G.W.B
 3. SUSP. ROOF. TILE
 4. SECURITY METAL TILE
 5. EPOXY PAINTED G.W.B

NOTE:
 PB: SECURITY PUSH-BUTTON
 SEE 02710 & 1' DNGS.
 HCB: HAND CUFF BAR.

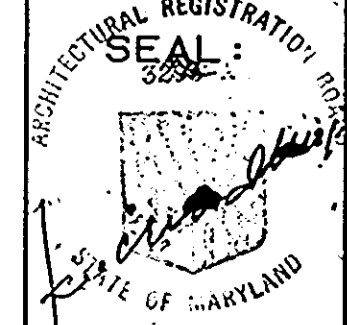
1. FIRST FLOOR PLAN 1/8" = 1' - 0"
 PHASE 1



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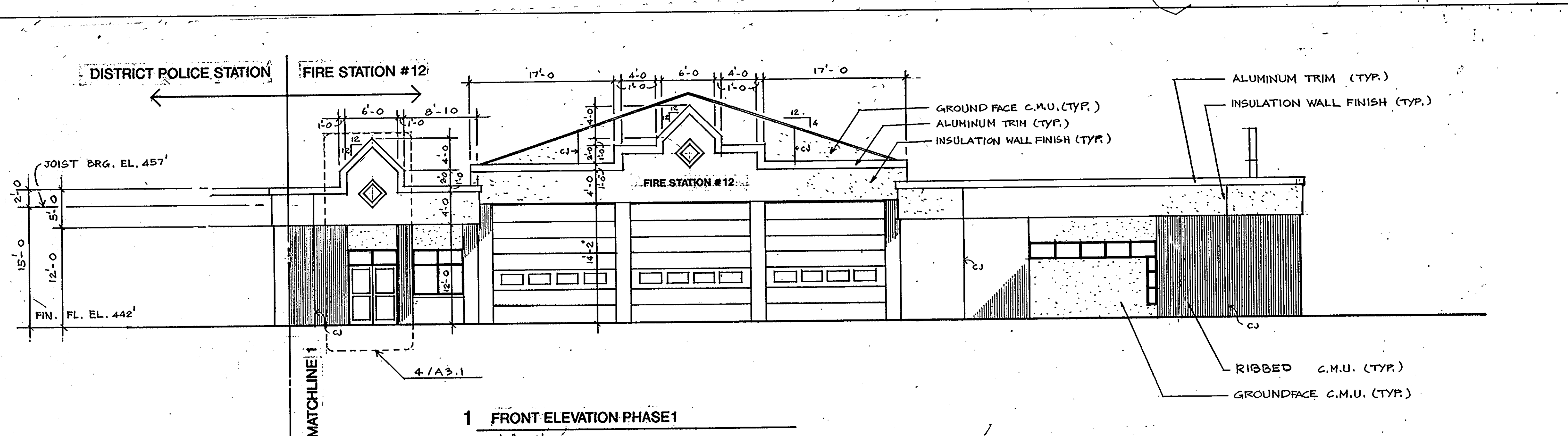
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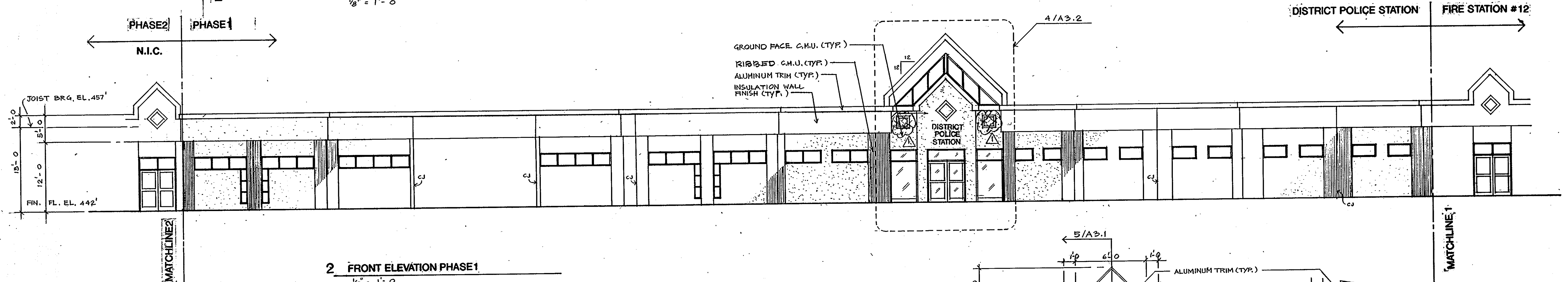


REVISIONS	
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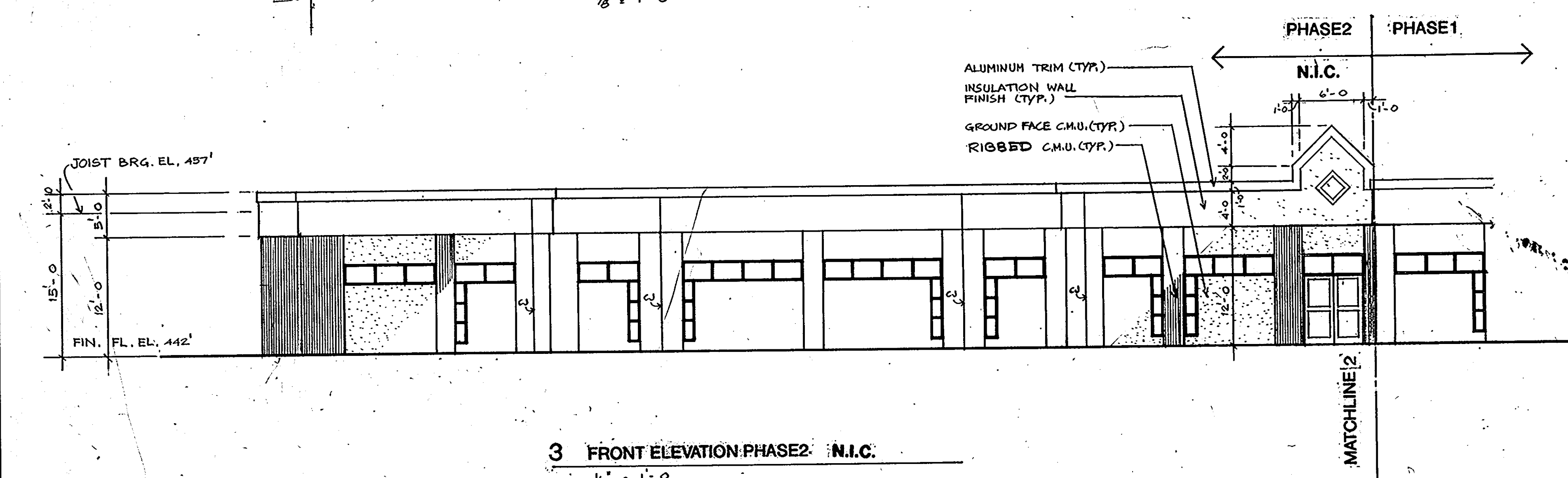
FIRST FLOOR PLAN POLICE STATION	19 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 3-25-92
	DRAWING NO. A 2.2



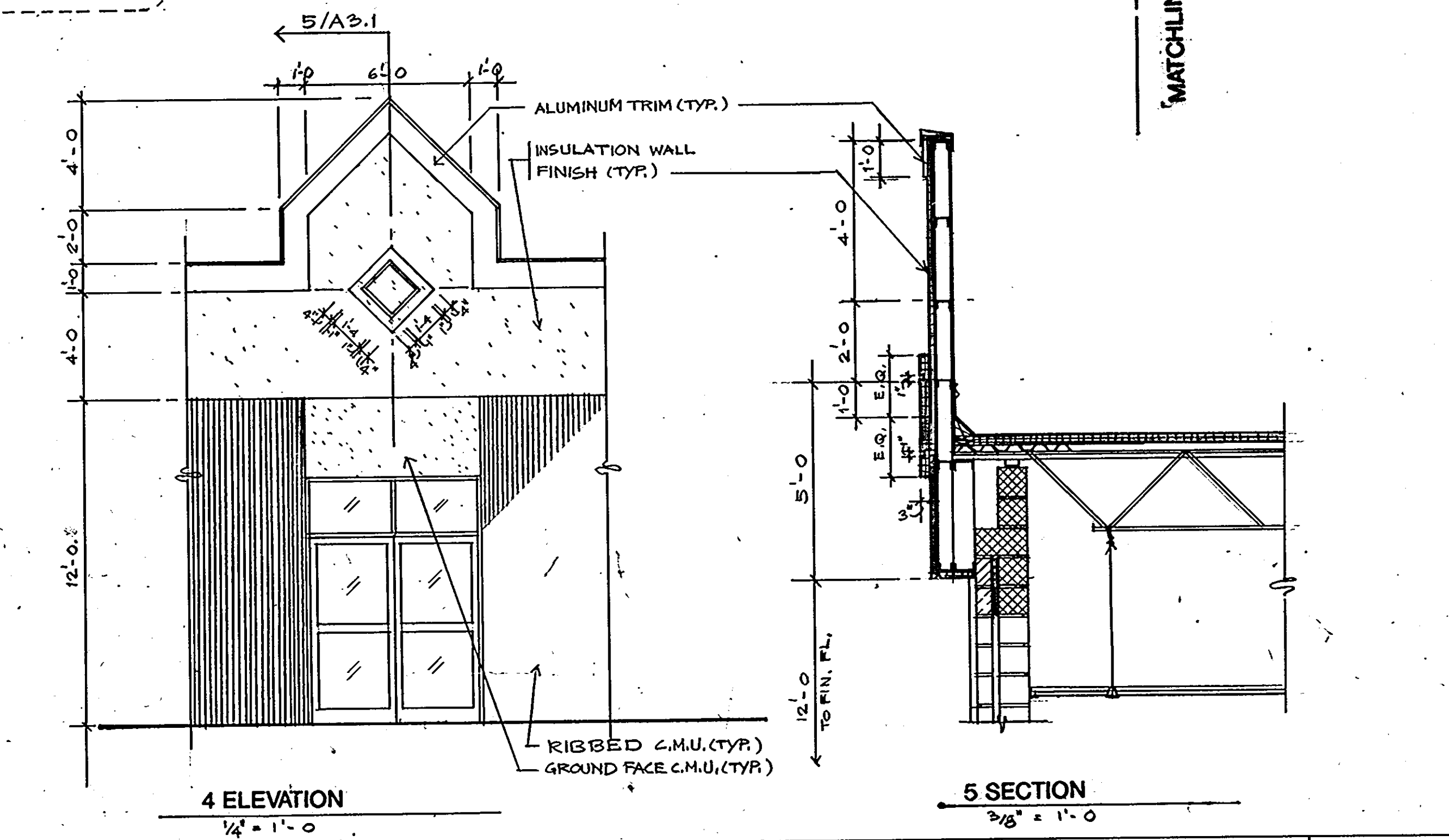
1 FRONT ELEVATION PHASE 1
1/8" = 1'-0"



2 FRONT ELEVATION PHASE 1
1/8" = 1'-0"



3 FRONT ELEVATION PHASE 2: N.I.C.
1/8" = 1'-0"

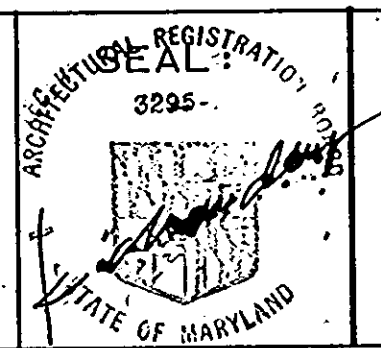


4 ELEVATION
1/4" = 1'-0"

5 SECTION
3/16" = 1'-0"

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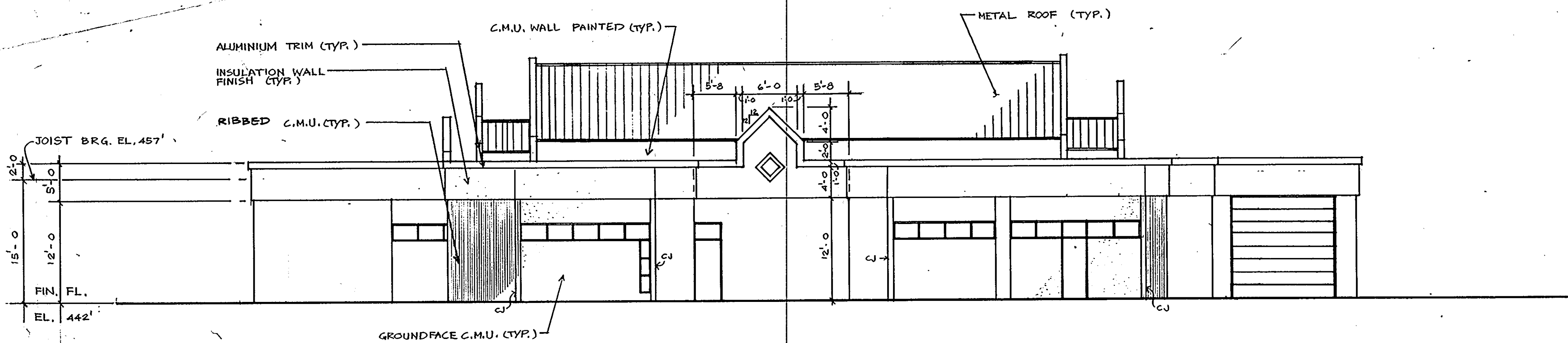
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 FIRE PROTECTION ENGINEER: STANTON ENGINEERING



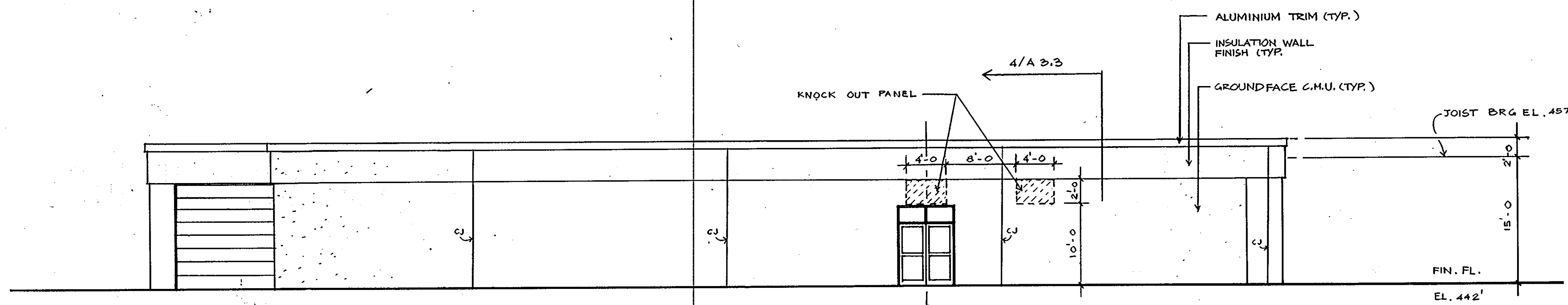
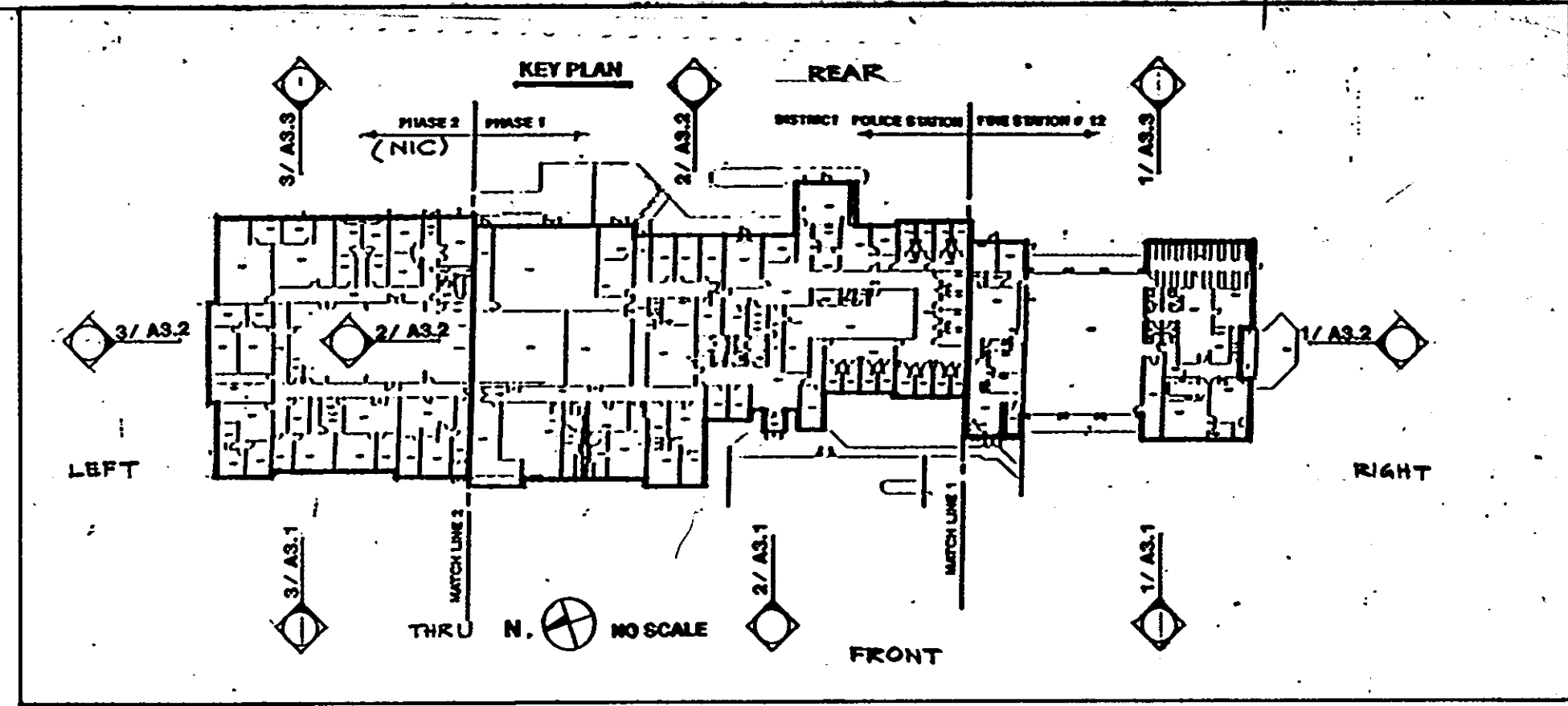
REVISIONS	
AS BUILT	11/24/92

ELEVATIONS
 HOWARD COUNTY
 PUBLIC SAFETY COMPLEX
 SCAGGSVILLE ANNEX
 11226 ROUTE 216
 LAUREL, MD. 20707

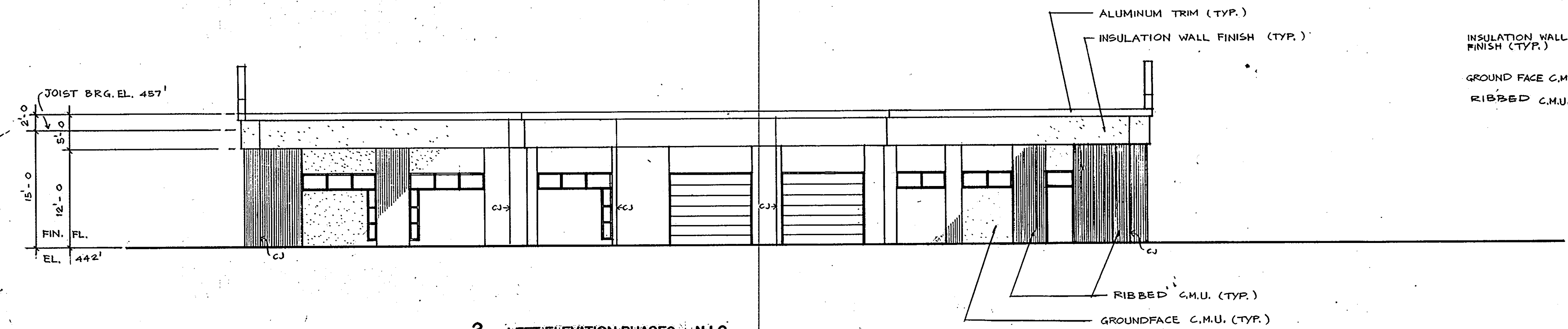
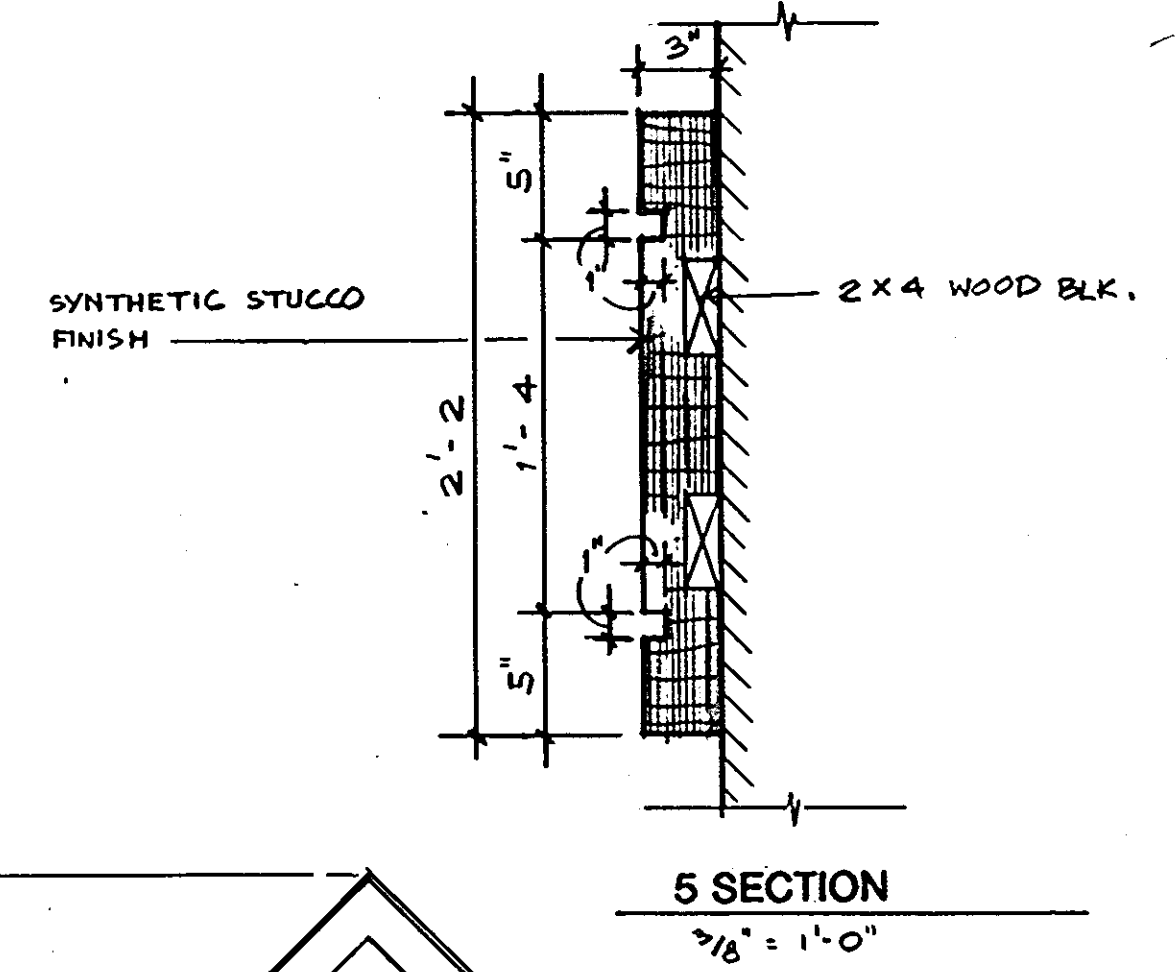
20 OF 90
 CAPITAL PROJECT NO. C-0227
 DATE: 2-25-92
 DRAWING NO. **A3.1**



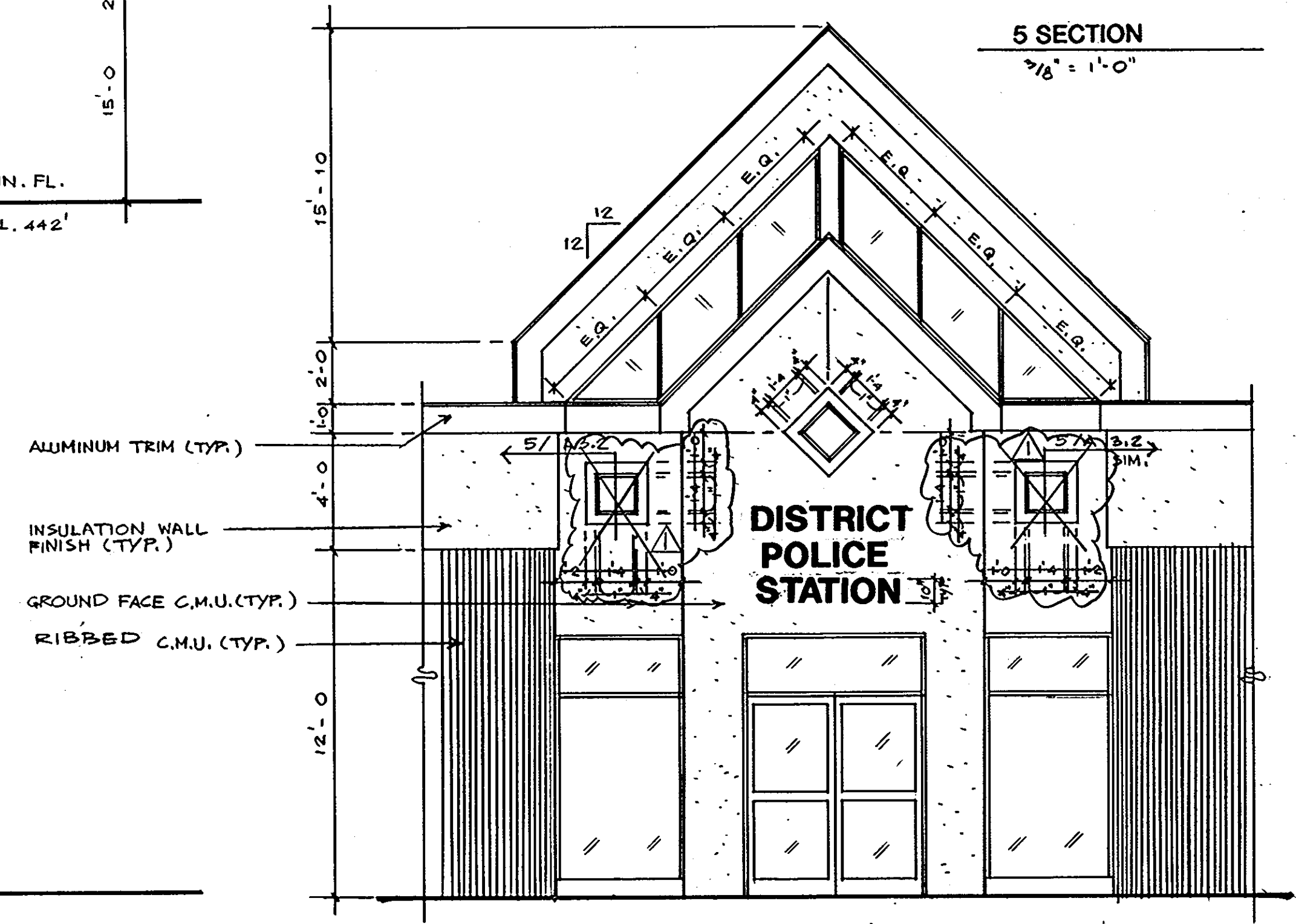
1 RIGHT ELEVATION PHASE 1
1/8" = 1'-0"



2 LEFT ELEVATION PHASE 1
1/8" = 1'-0"



3 LEFT ELEVATION PHASE 2 N.I.C.
1/8" = 1'-0"



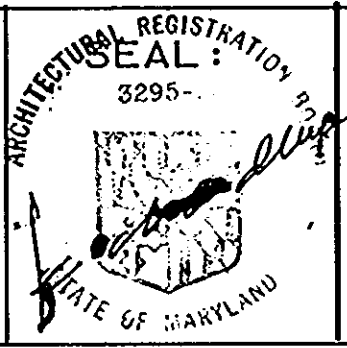
4 ELEVATION
1/4" = 1'-0"

0291

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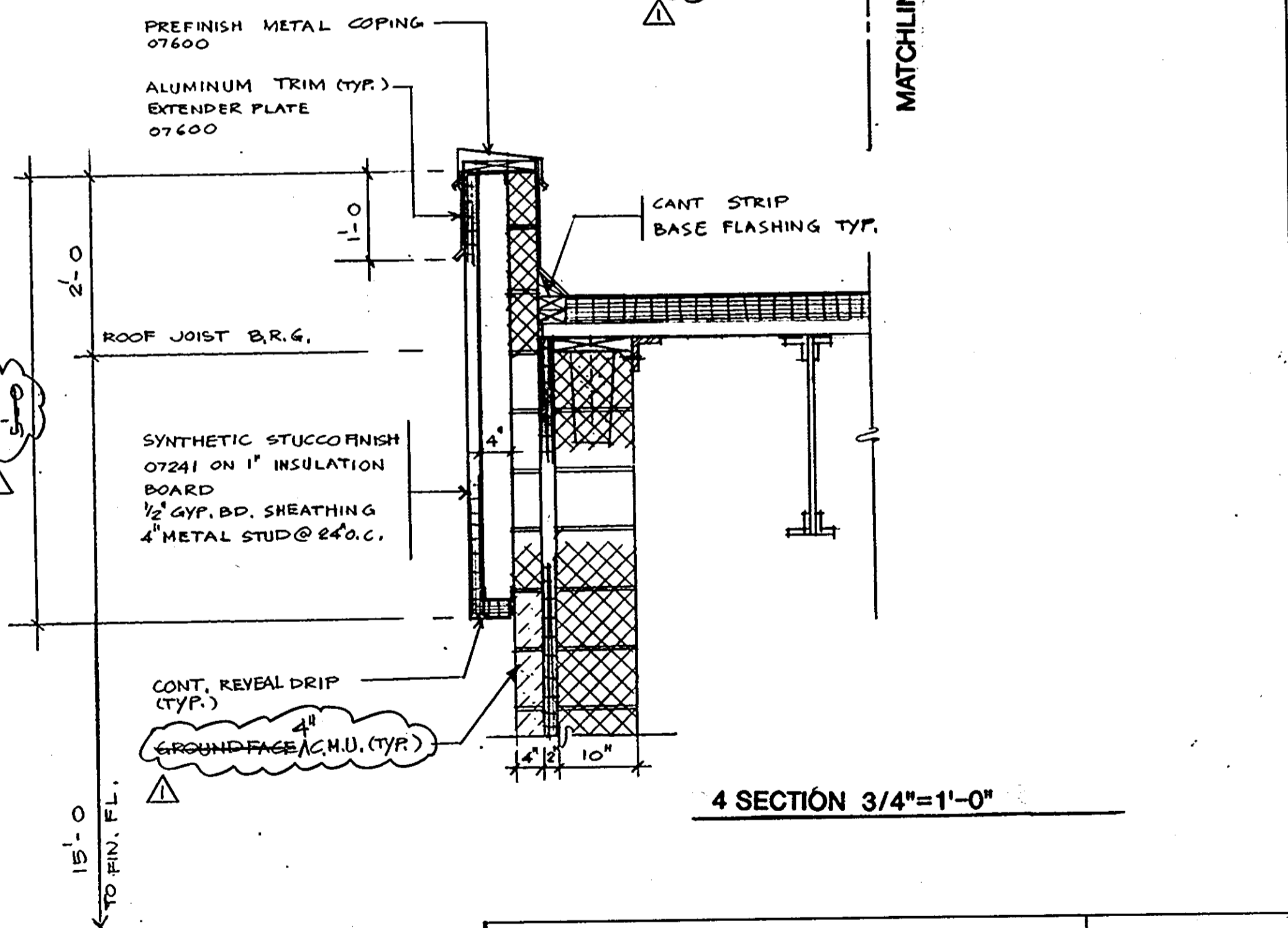
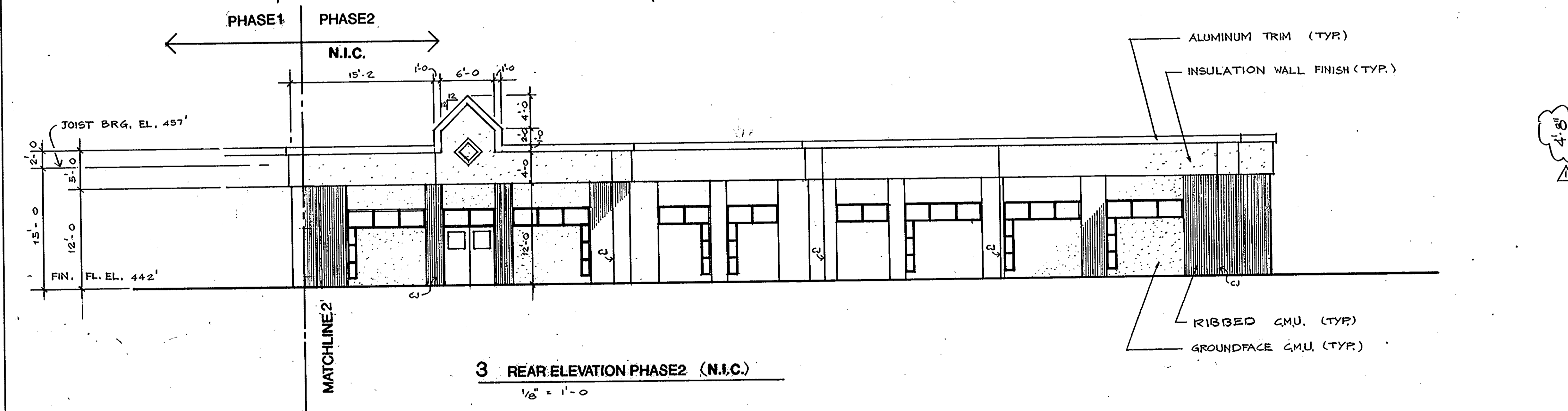
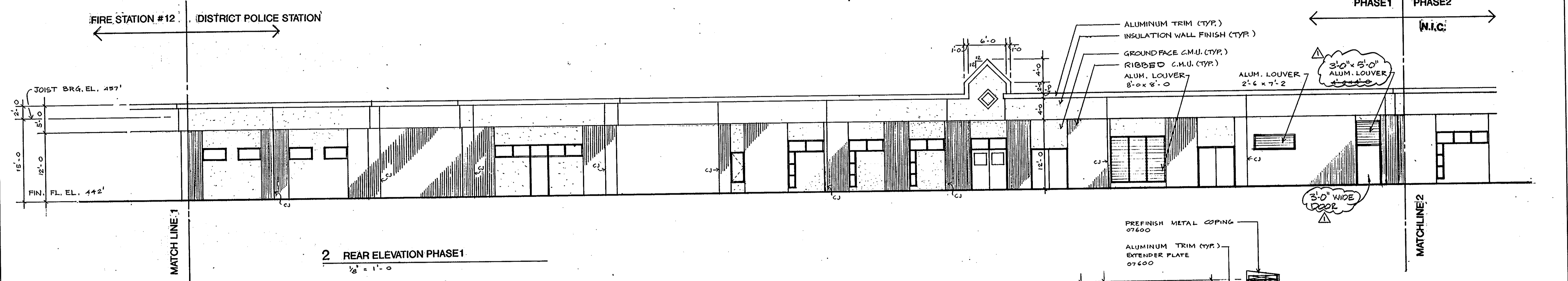
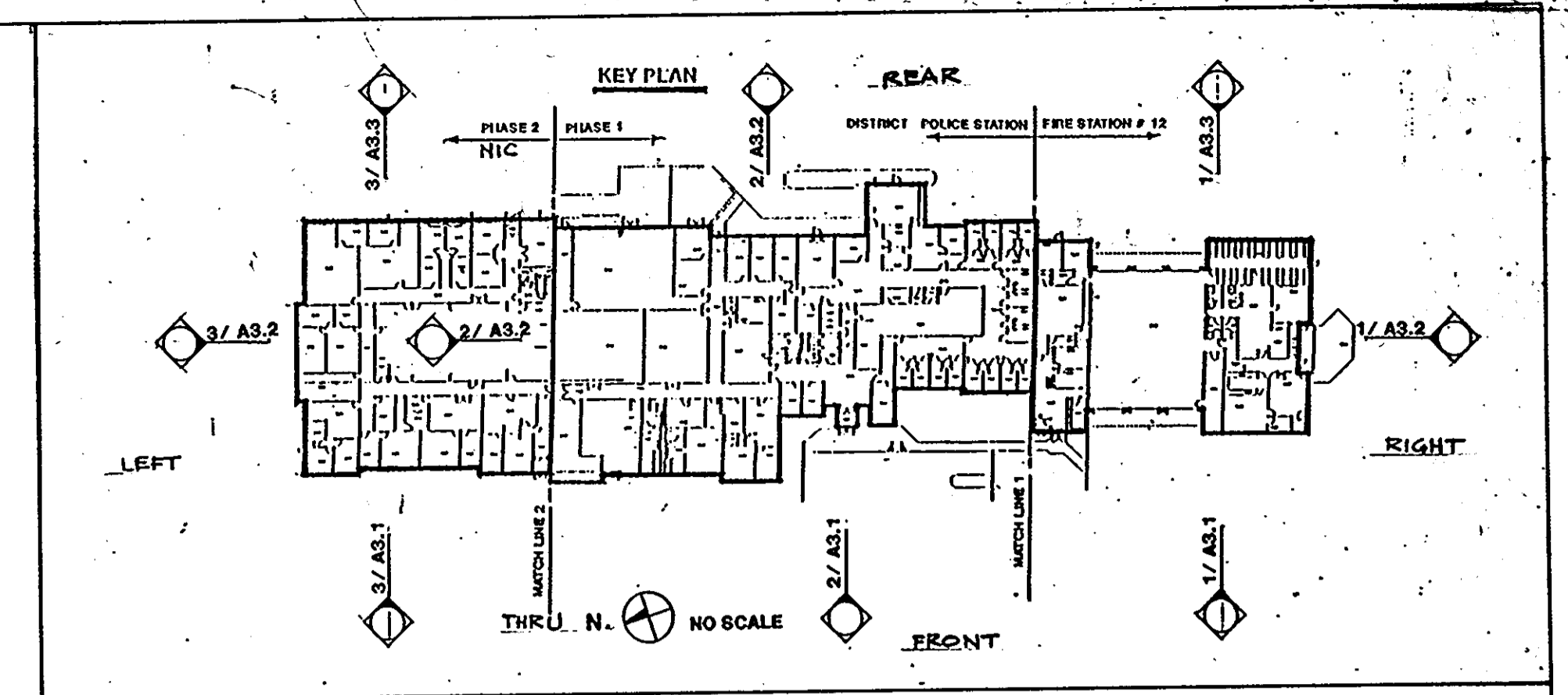
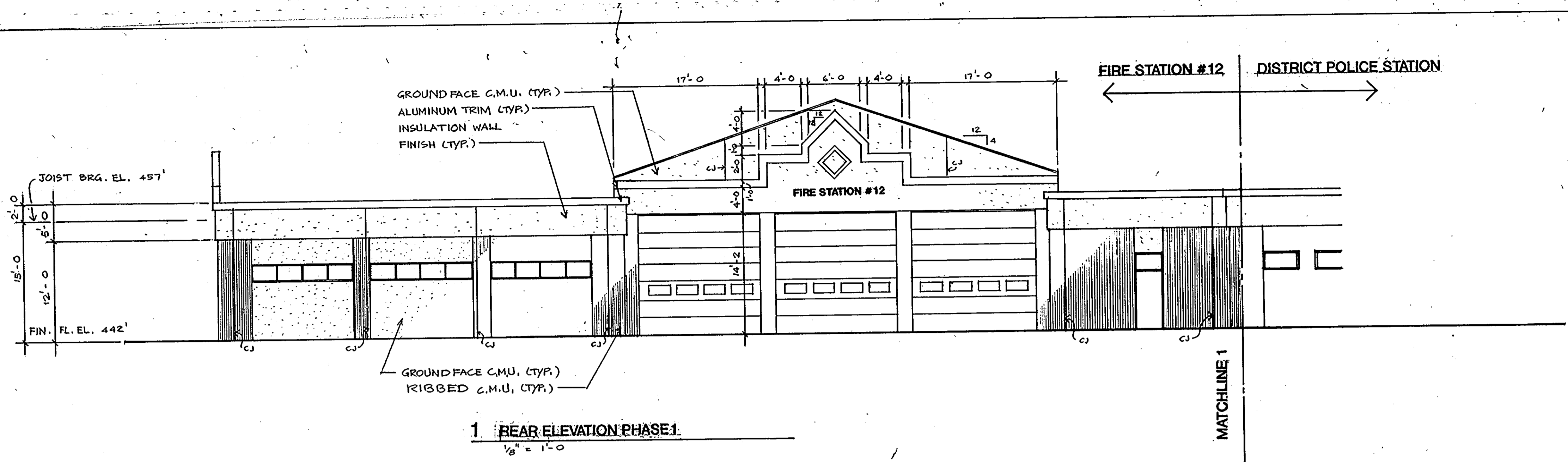
IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER:
STRUCTURAL ENGINEER:
MECHANICAL & ELECTRICAL ENGINEER:
FIRE PROTECTION ENGINEER:

E B A ENGINEERING, INC.
QODESH ENGINEERING SERVICES, INC.
BHARGAVA INTERNATIONAL, INC.
STANTON ENGINEERING



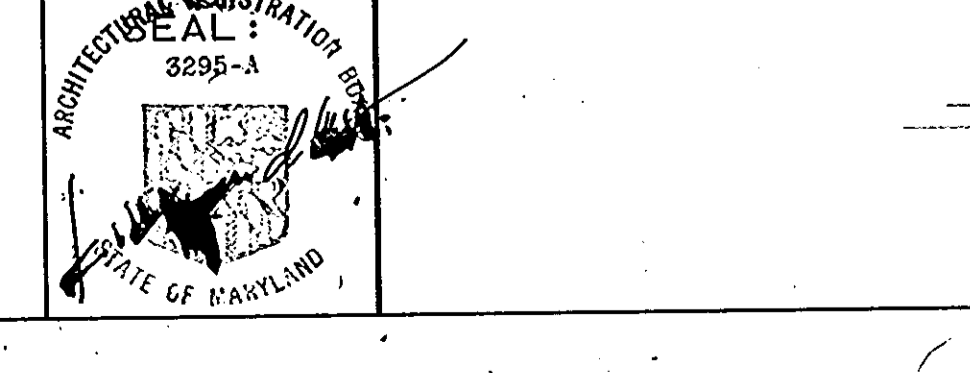
REVISIONS	
AS BUILT	11/24/94

ELEVATIONS		21 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707		DATE: 3-25-92
		DRAWING NO. A 3.2



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 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
 FIRE PROTECTION ENGINEER: STANTON ENGINEERING

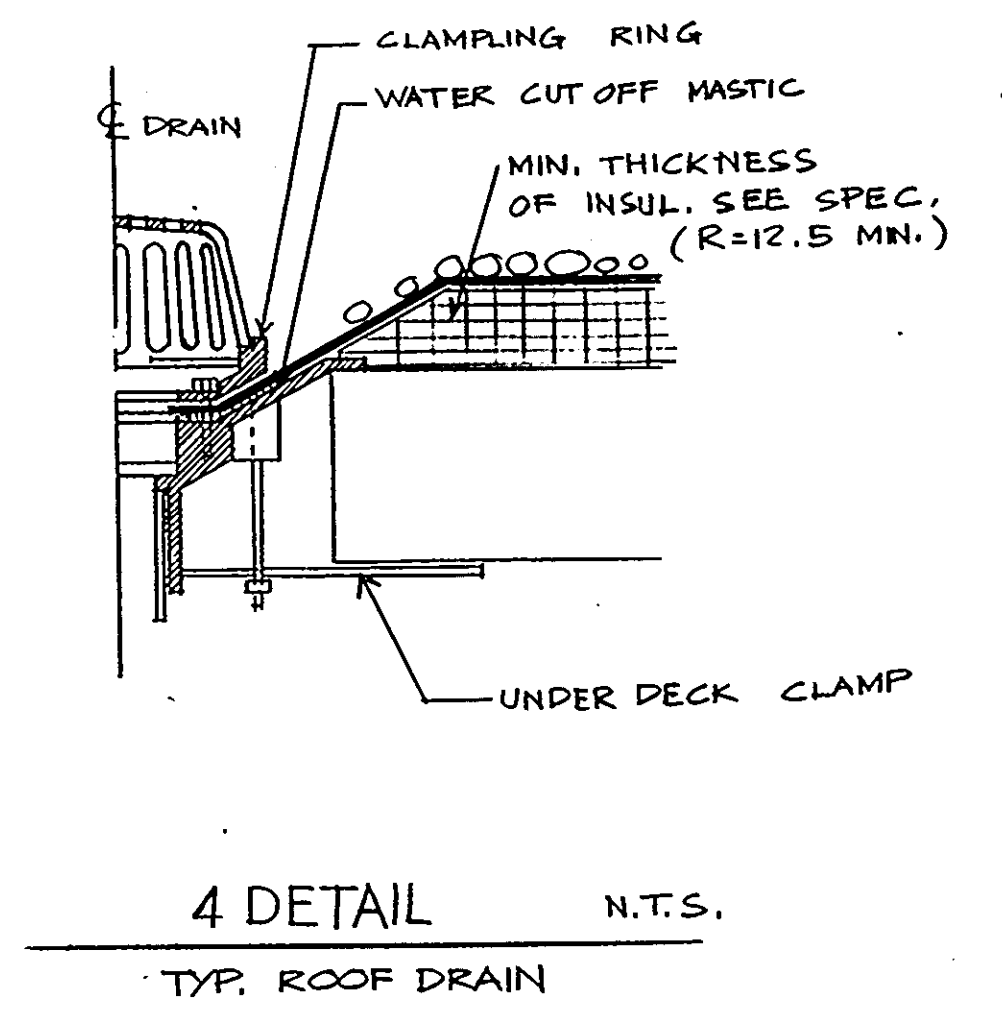
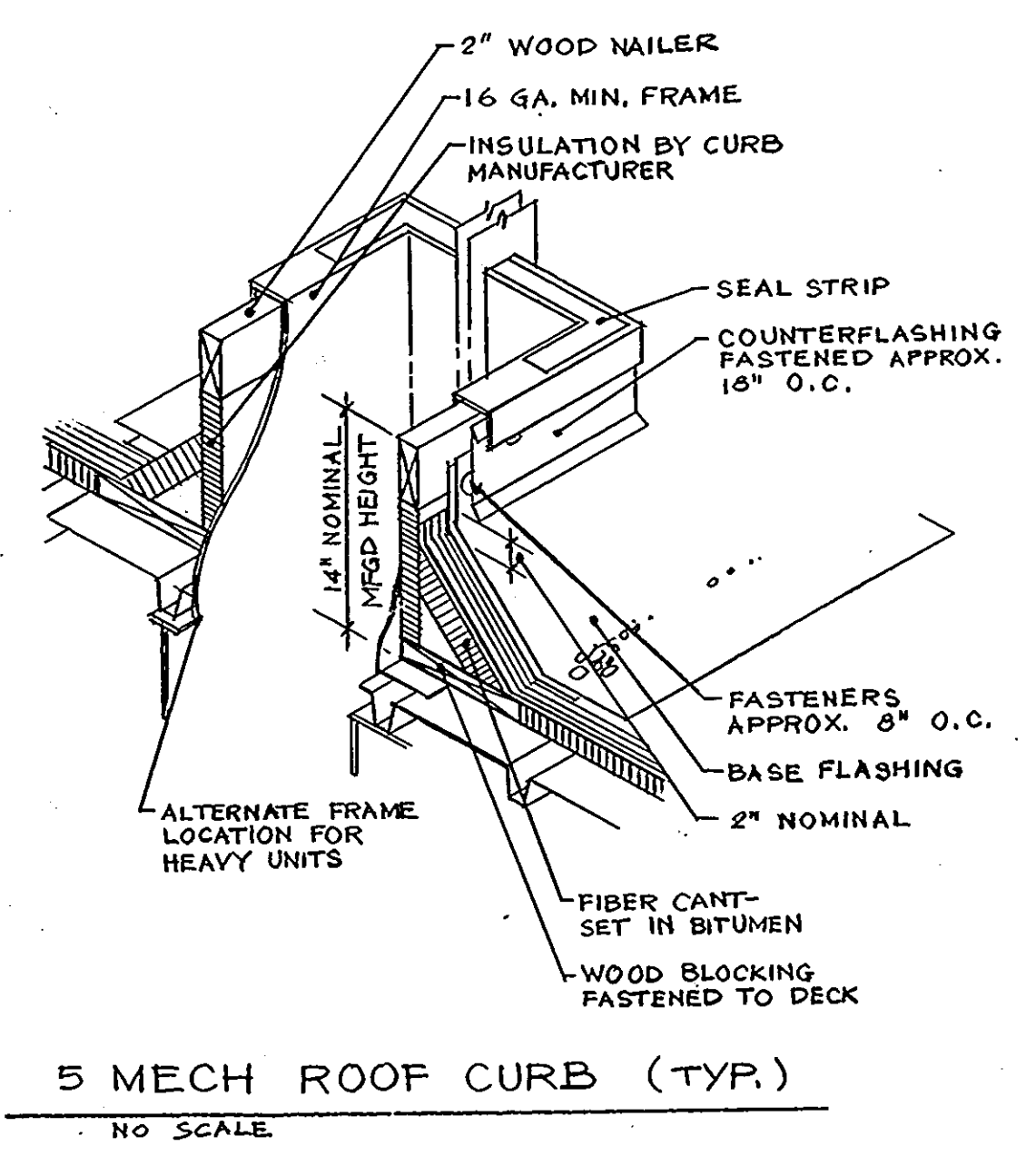
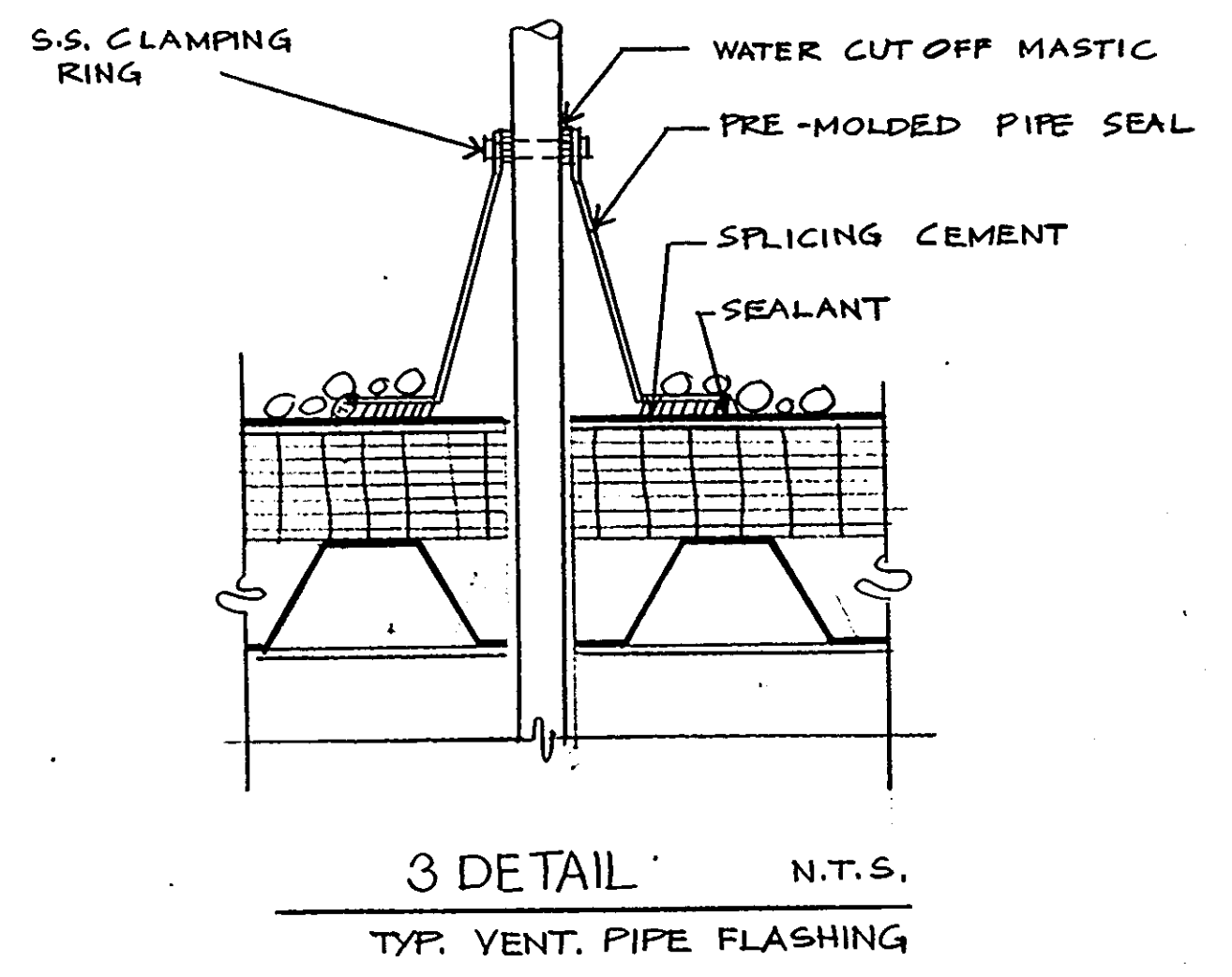
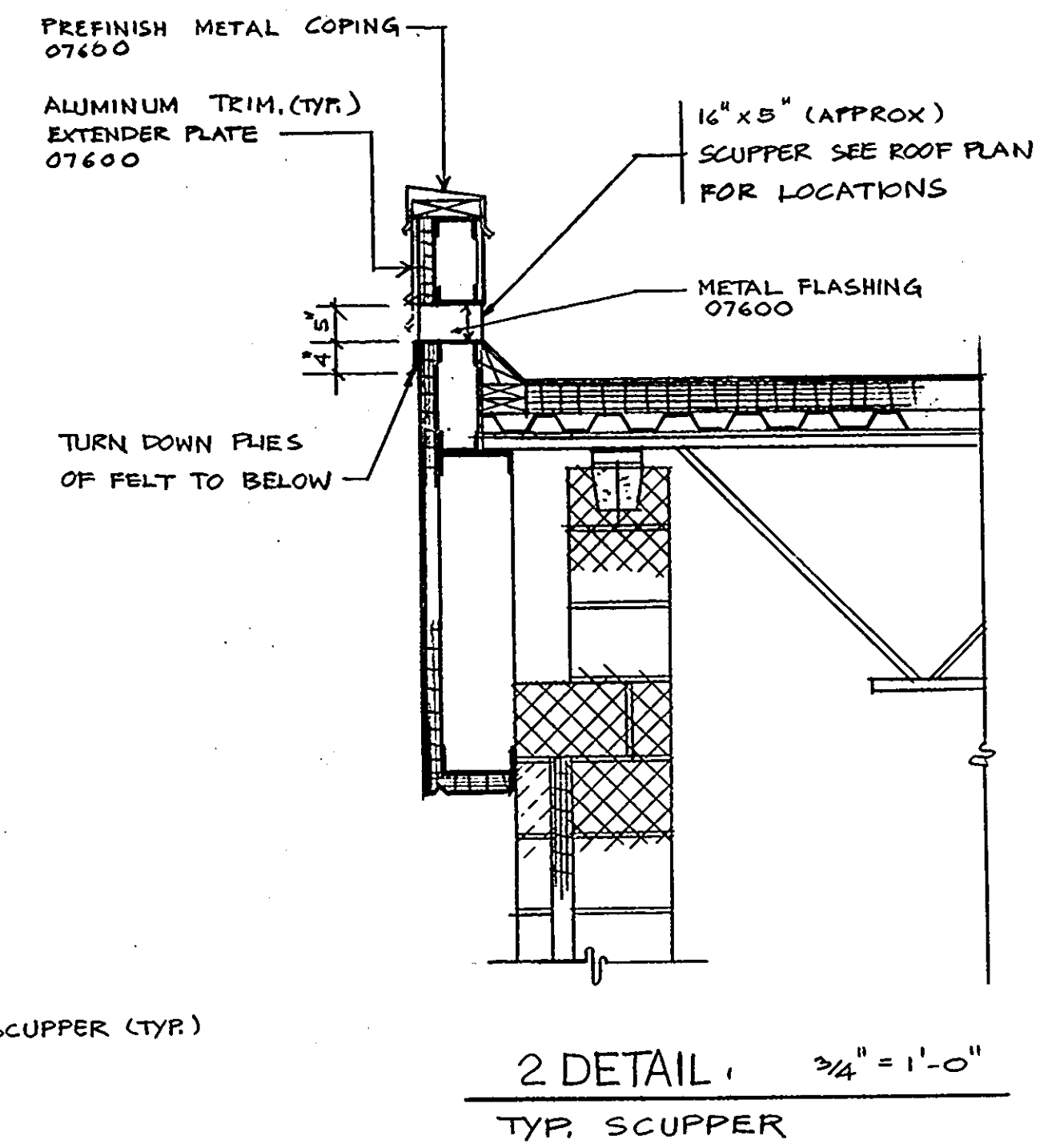
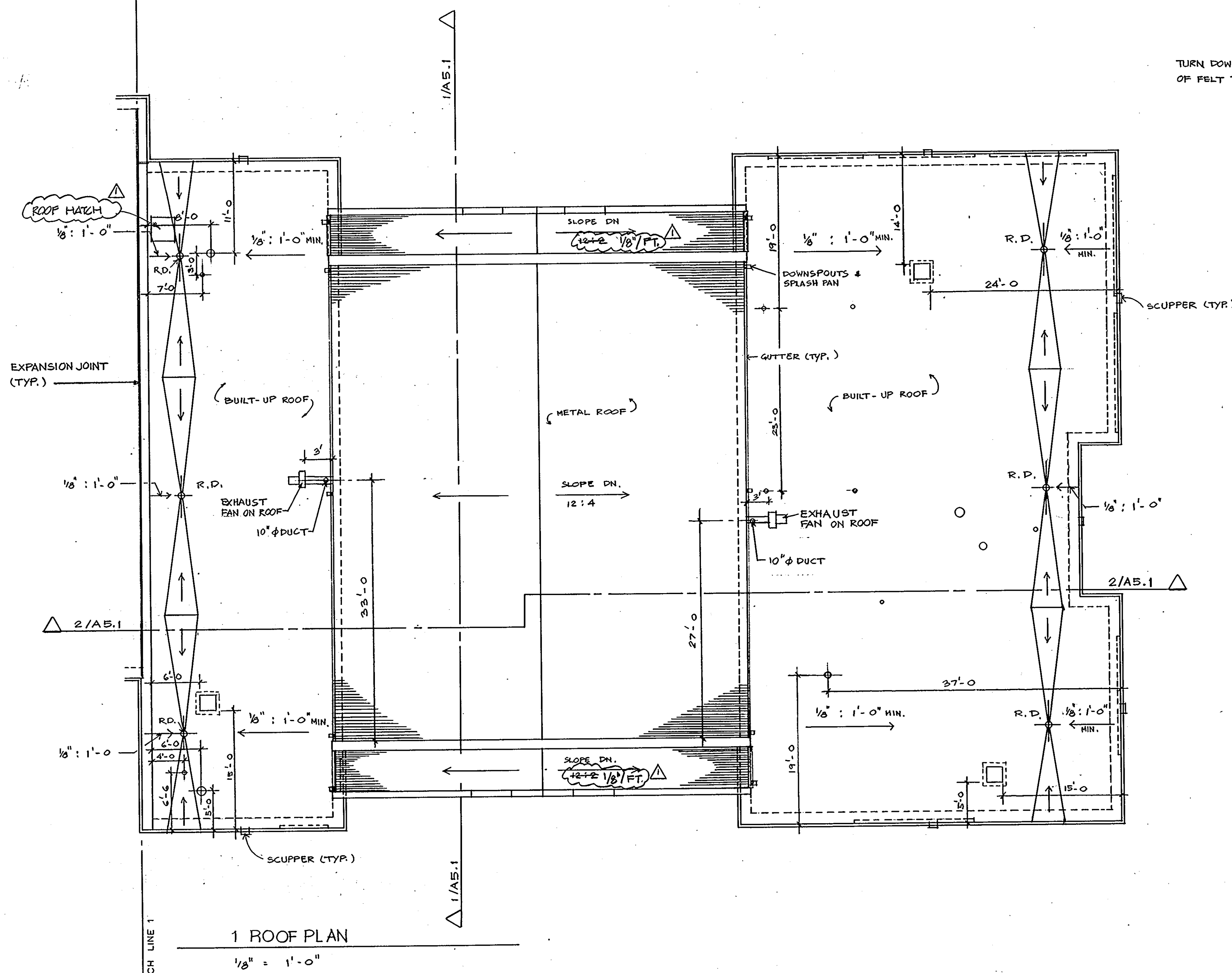


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ELEVATIONS	
HOWARD COUNTY PUBLIC SAFETY COMPLEX	
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	22 OF 90 CAPITAL PROJECT NO. C - 0227 DATE: 3-25-92 DRAWING NO. A 3.3

1650

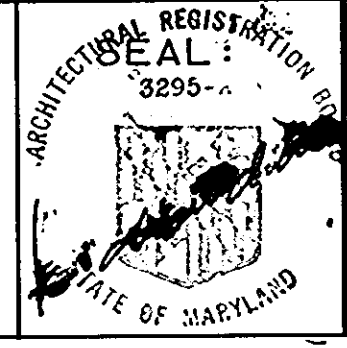
DISTRICT POLICE STATION FIRE STATION #12



1650

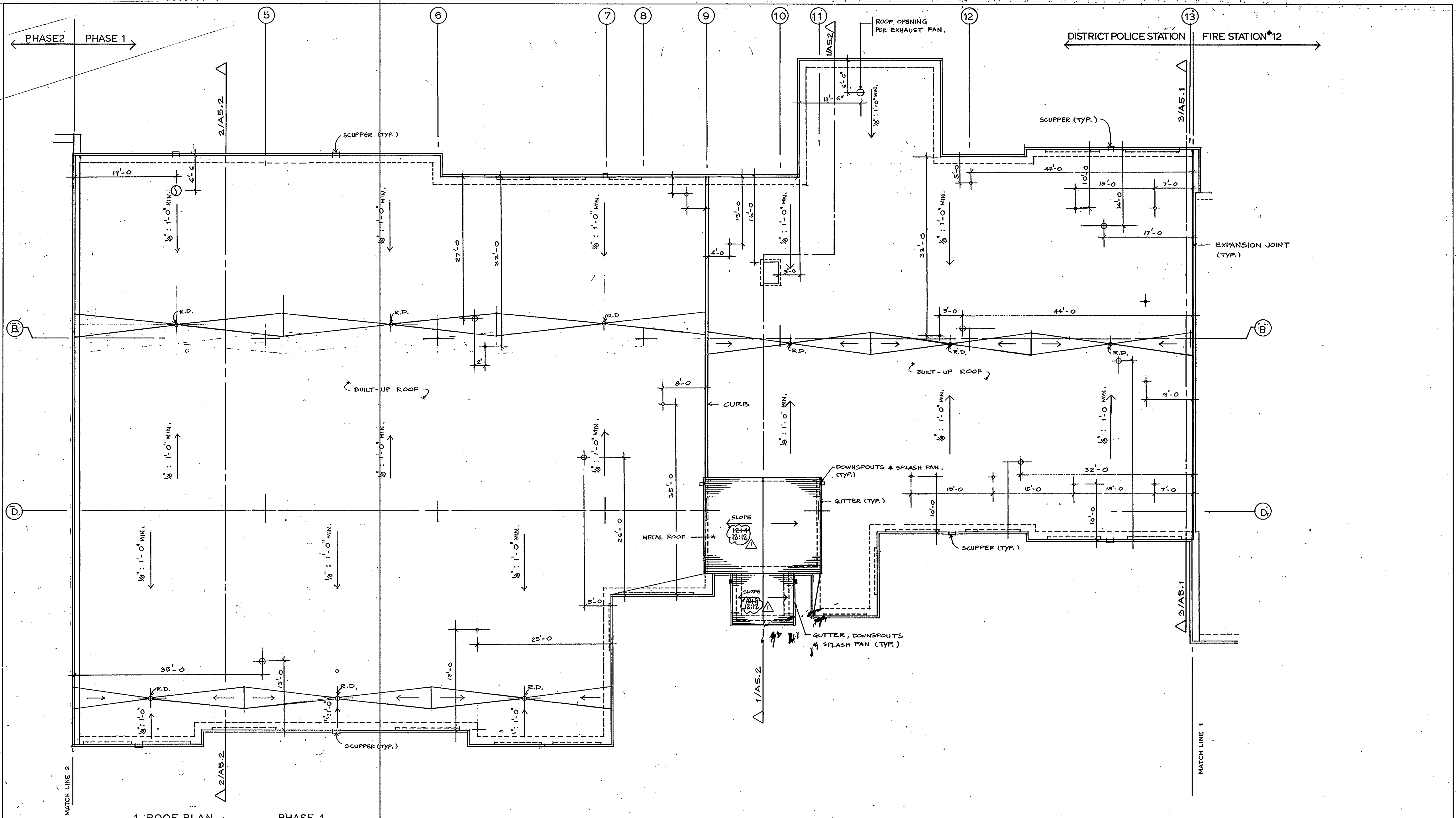
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 FIRE PROTECTION ENGINEER: STANTON ENGINEERING



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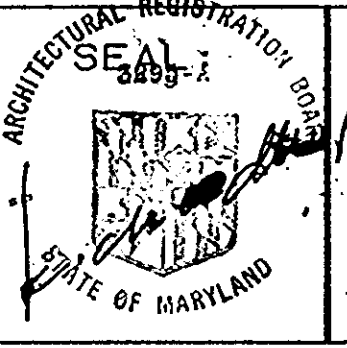
ROOF PLAN - FIRE STATION	23 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 3-25-92 DRAWING NO. A 4.1



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

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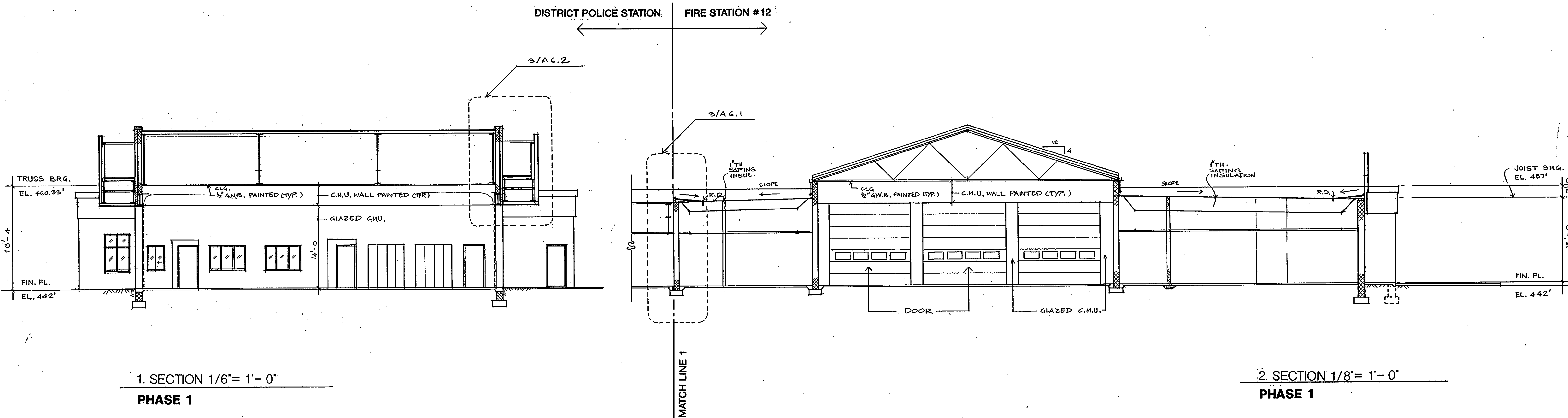
IN ASSOCIATION WITH:
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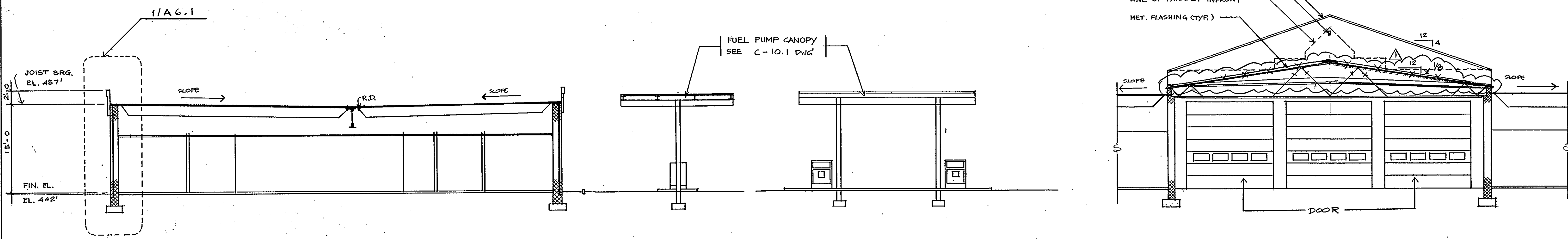
ROOF PLAN - POLICE STATION	24 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 3-25-92 DRAWING NO. A 4.2

1650



1. SECTION 1/6" = 1'-0"
PHASE 1

2. SECTION 1/8" = 1'-0"
PHASE 1



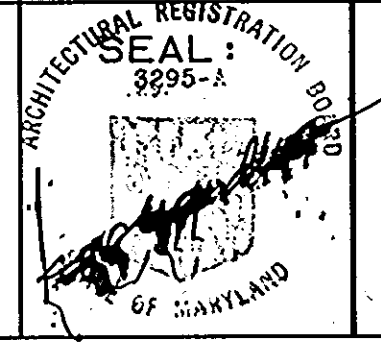
3. SECTION 1/8" = 1'-0"
PHASE 1

4. SECTION 1/8" = 1'-0"
PHASE 1

5. SECTION 1/8" = 1'-0"
PHASE 1

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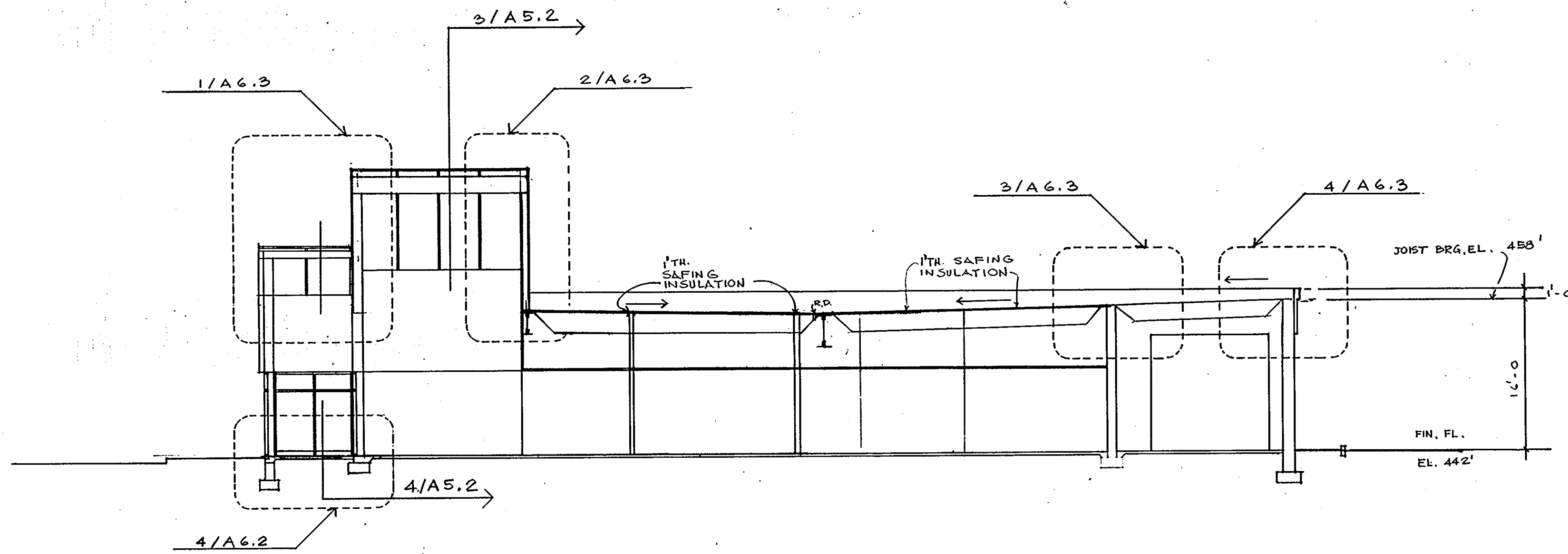
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 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
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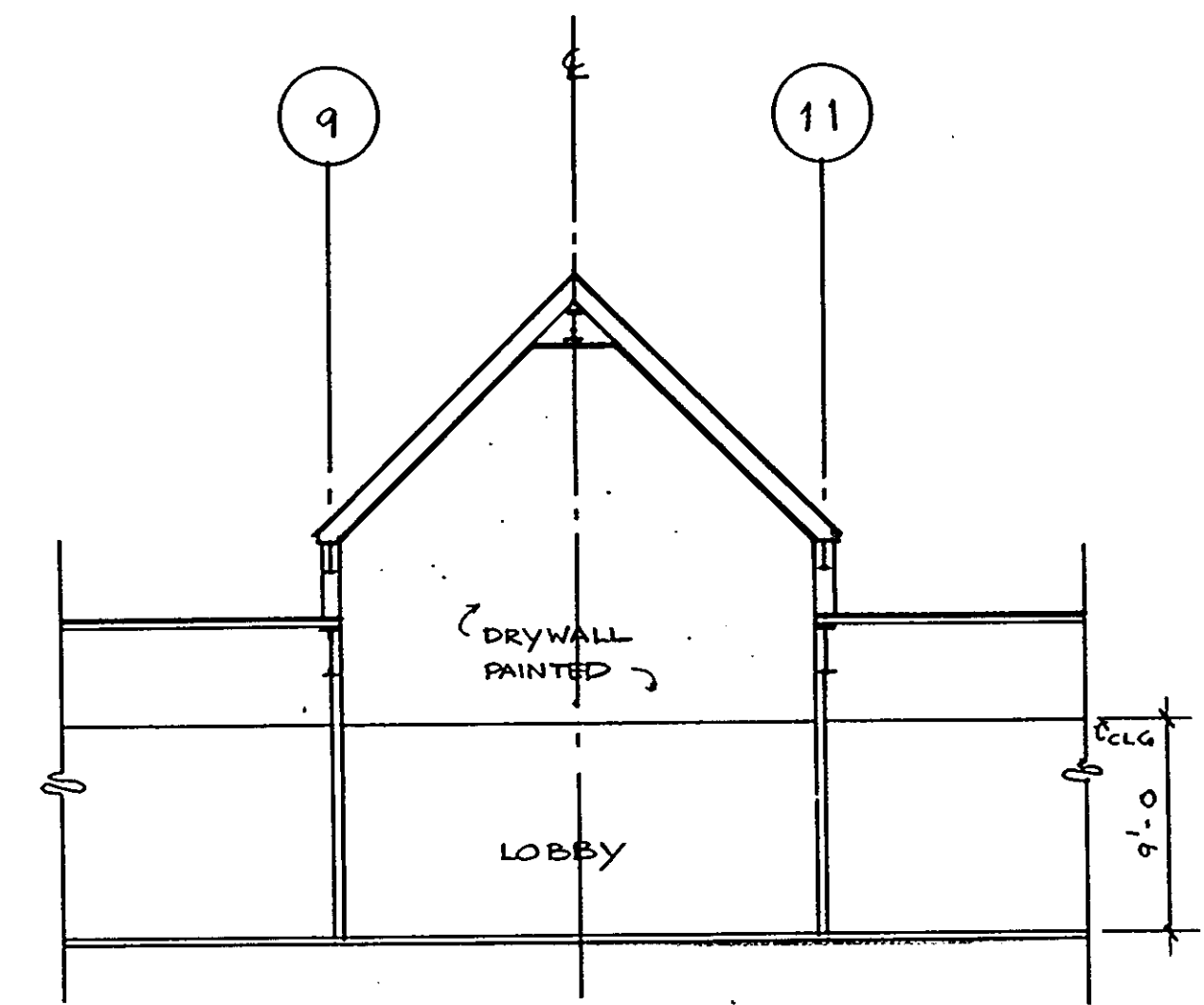
REVISIONS	
AS BUILT	11/24/94

BUILDING SECTION	25 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 3-25-92 DRAWING NO. A 5.1

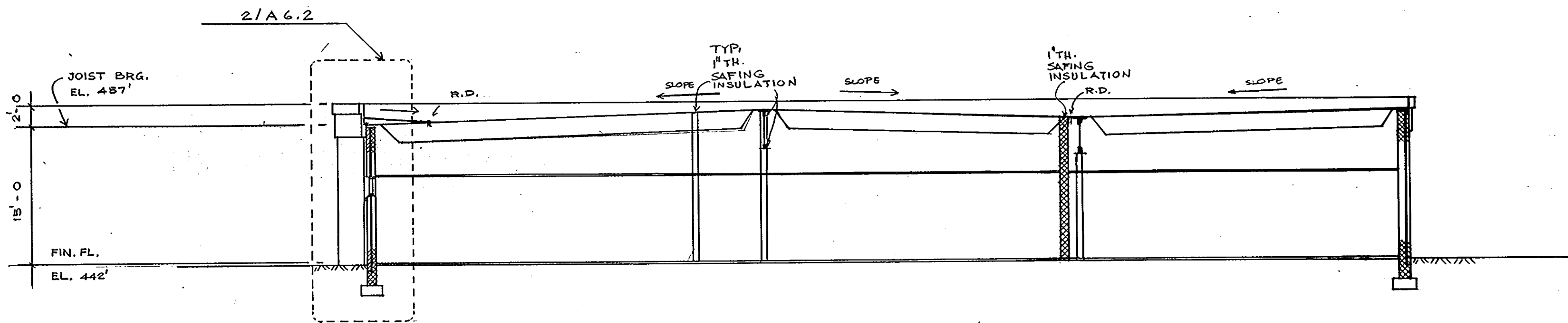
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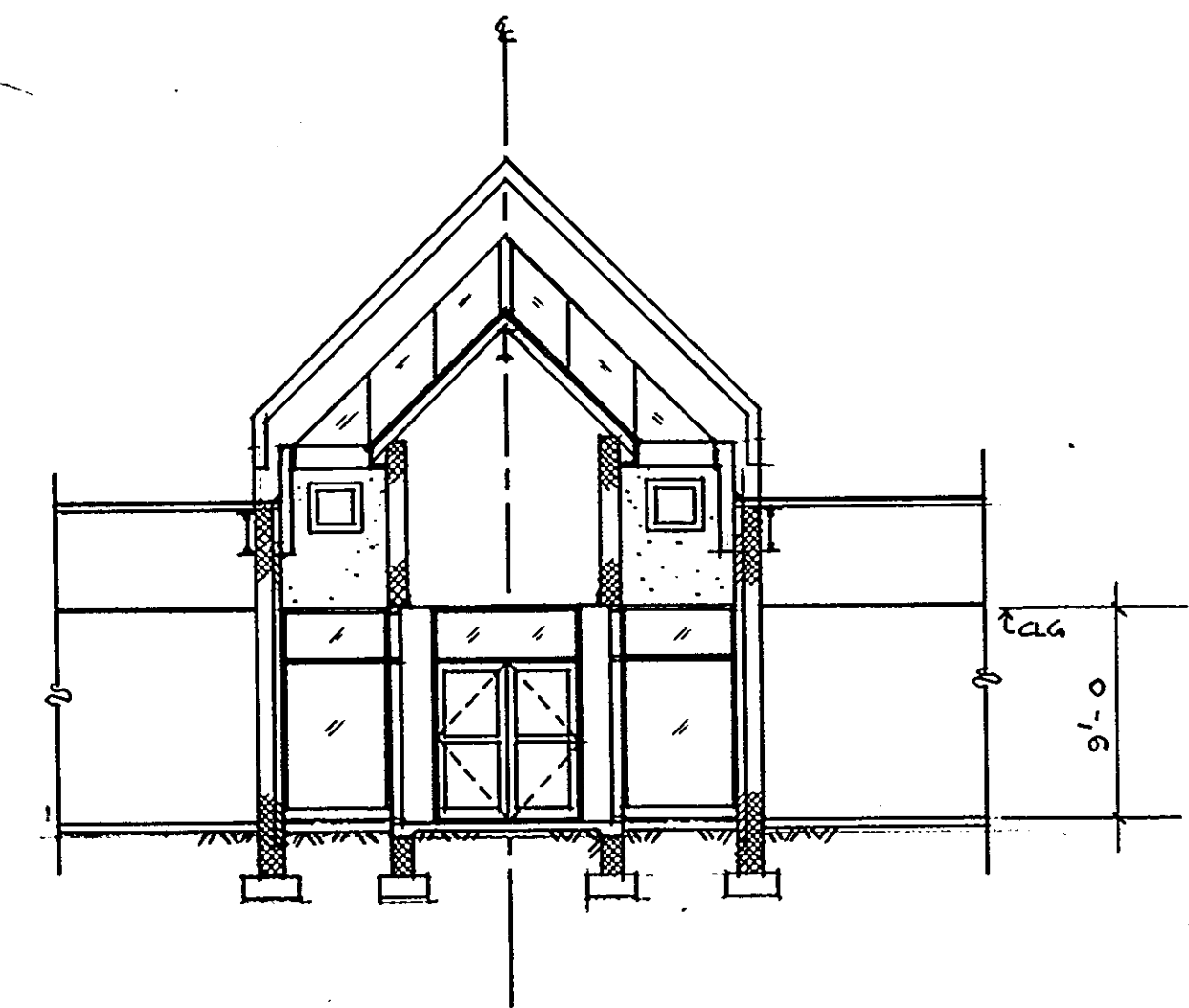
1. SECTION 1/8" = 1'-0"
PHASE 1



3 SECTION 1/8" = 1'-0"
PHASE 1



2. SECTION 1/8" = 1'-0"
PHASE 1

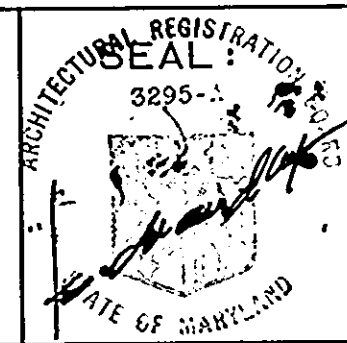


4 SECTION 1/8" = 1'-0"
PHASE 1

NOTE:
PROVIDE 1" TH. SAFING INSULATION FOR ALL
FIRE RATED & SMOKE TIGHT WALLS. TYP. LOCATION
AS SHOWN IN FLOOR PLANS & BUILDING SECTIONS.

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Architects and Construction Consultants
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STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
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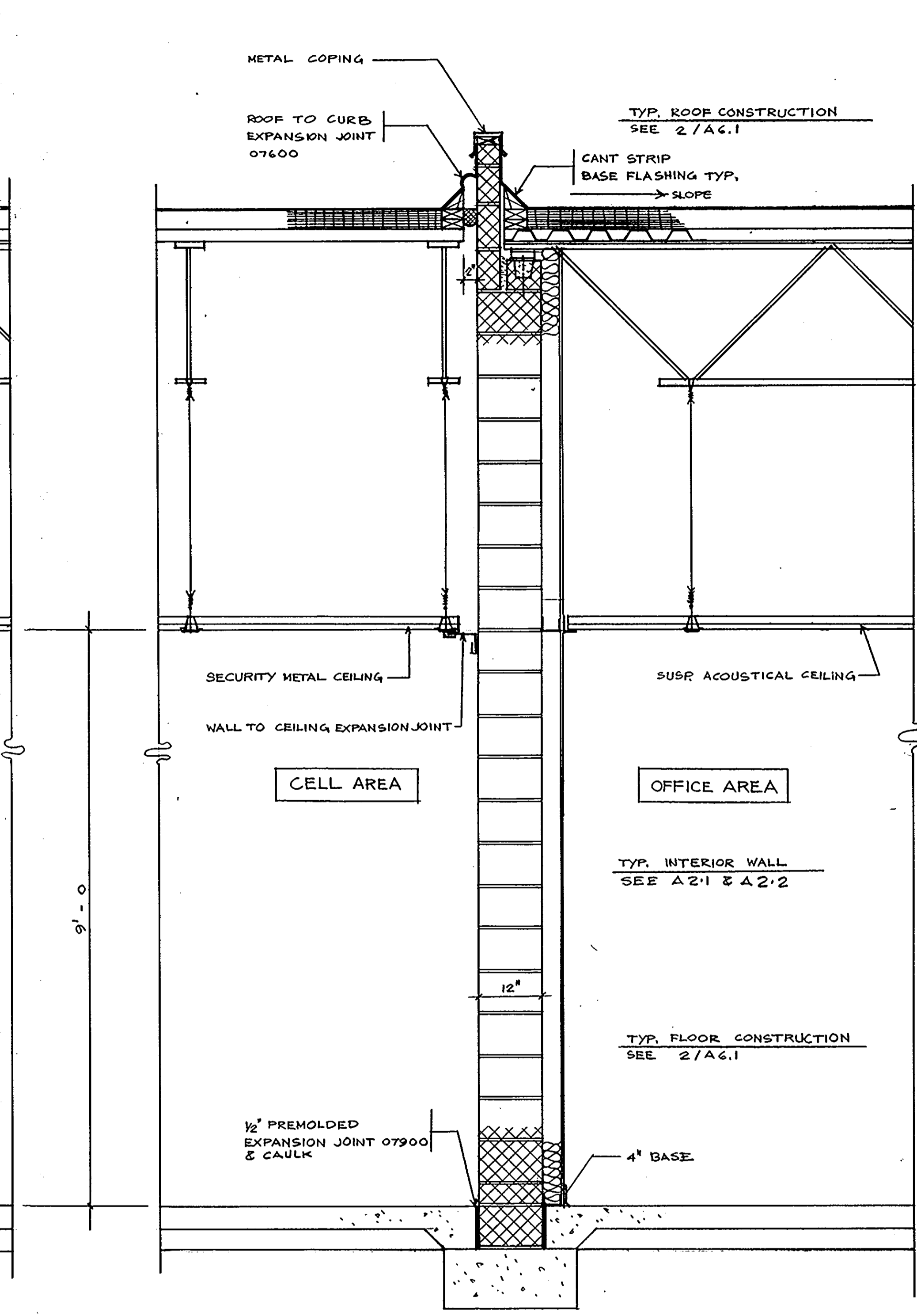
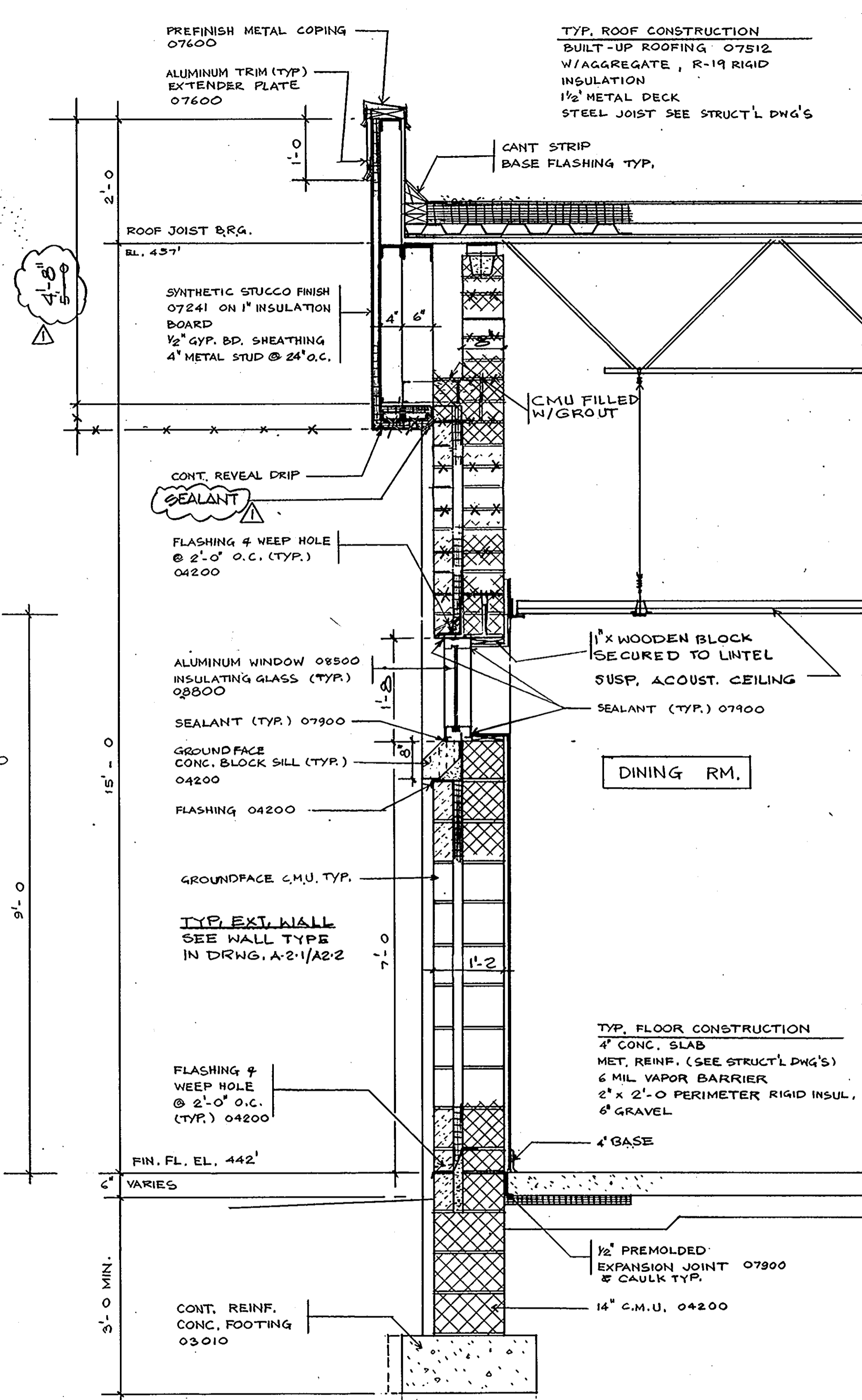
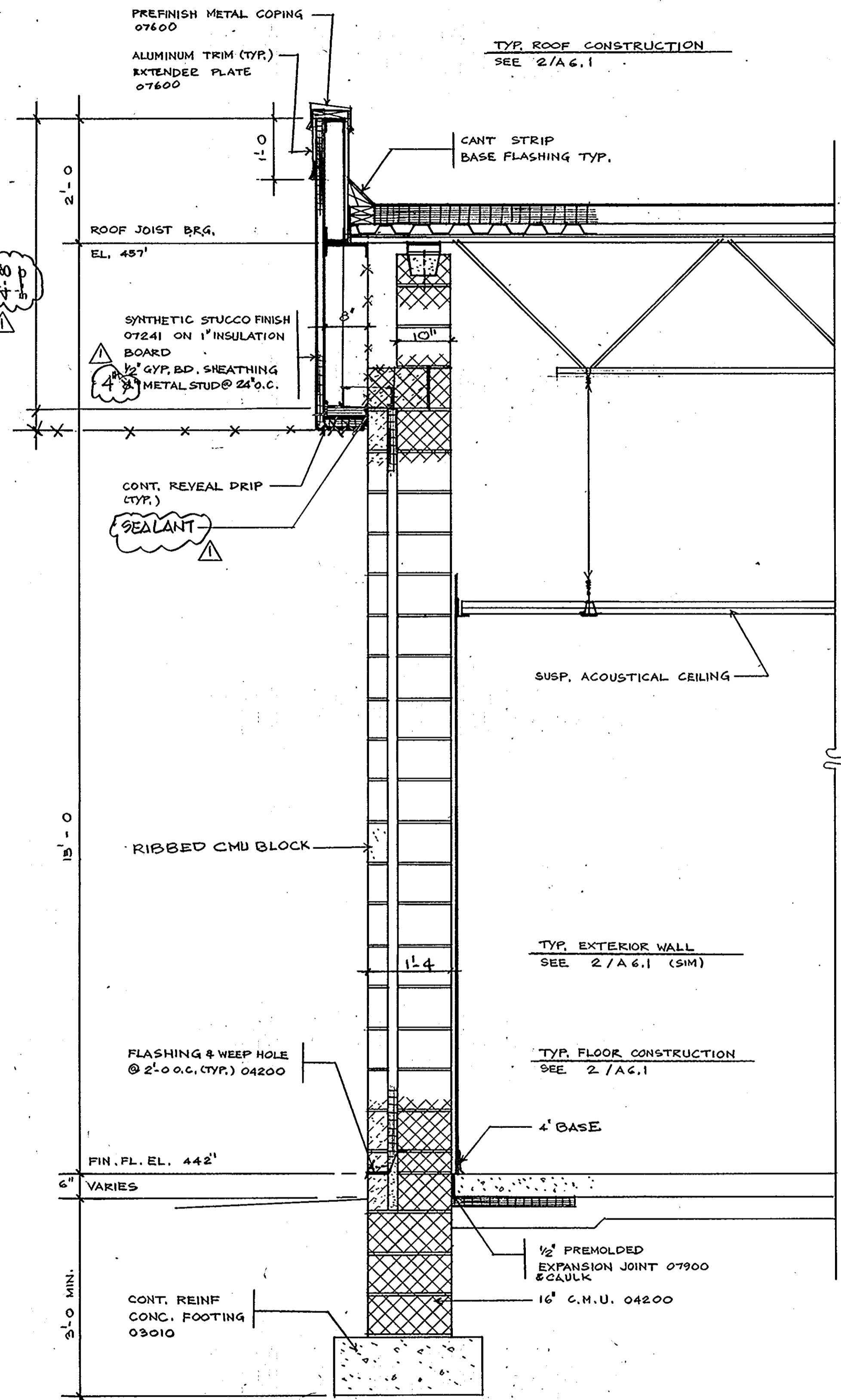
BUILDING SECTION

HOWARD COUNTY
PUBLIC SAFETY COMPLEX
SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD. 20707

26 OF 90

CAPITAL PROJECT NO. C - 0227
DATE: 3-25-92
DRAWING NO. **A 5.2**

1650



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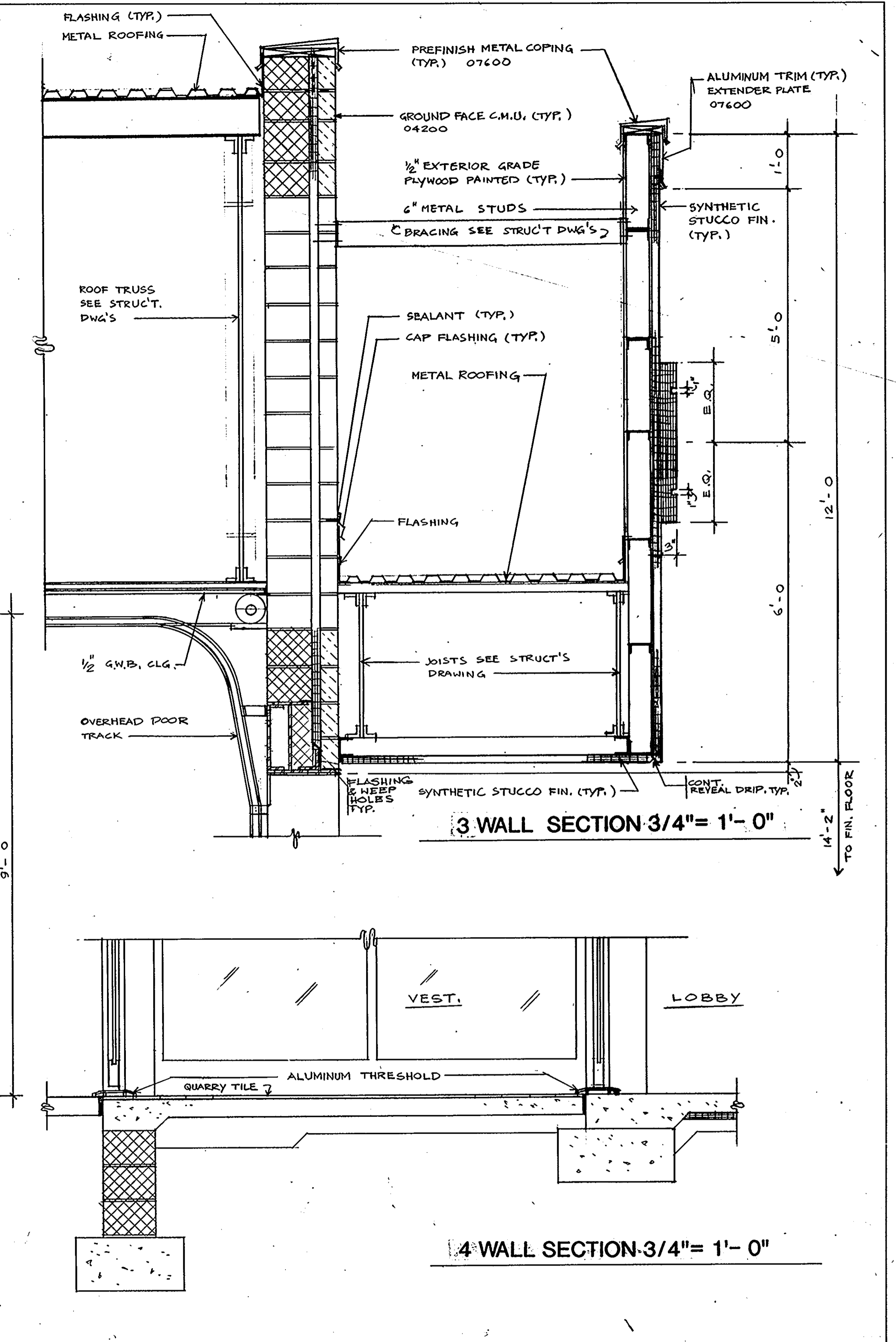
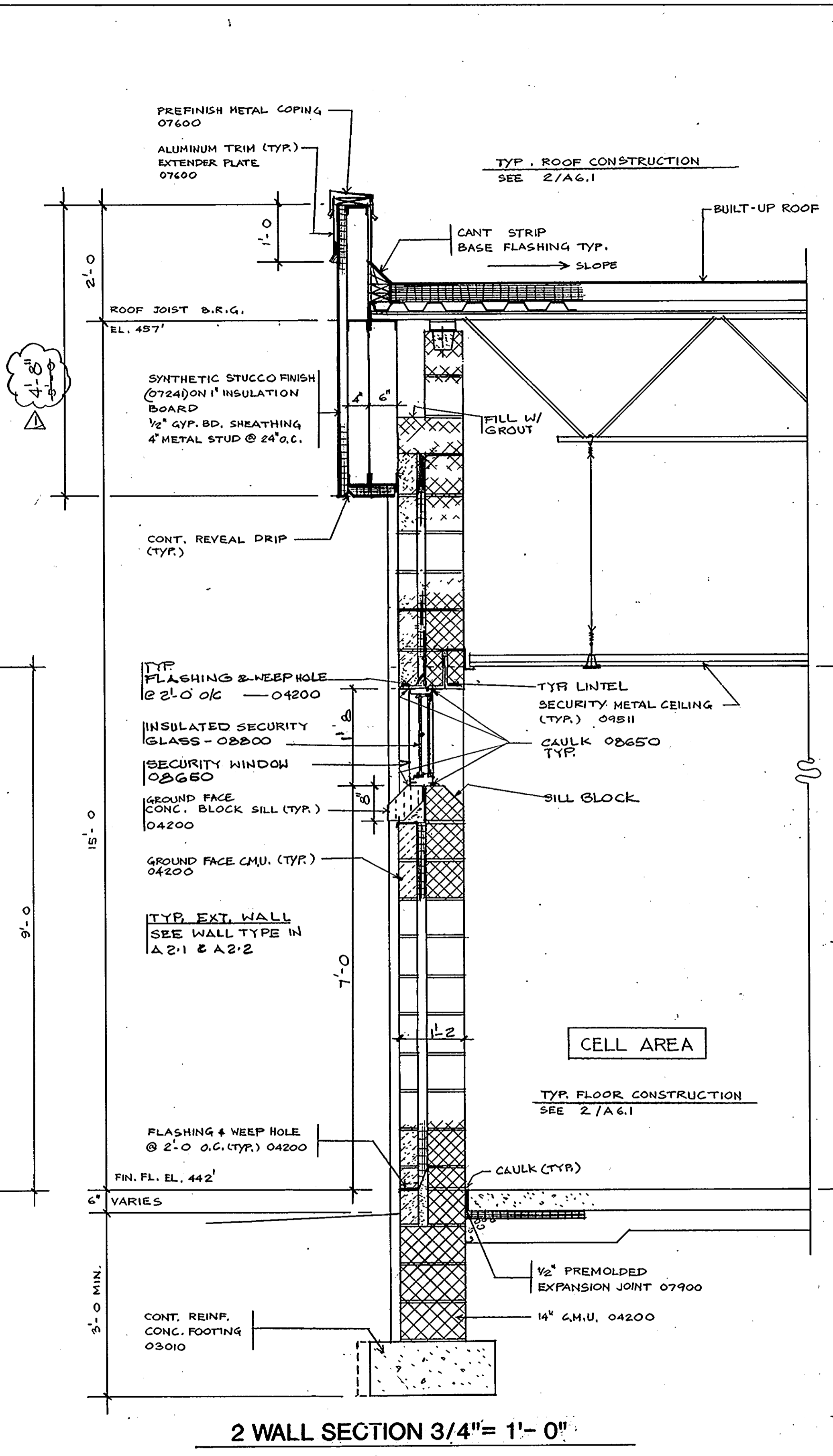
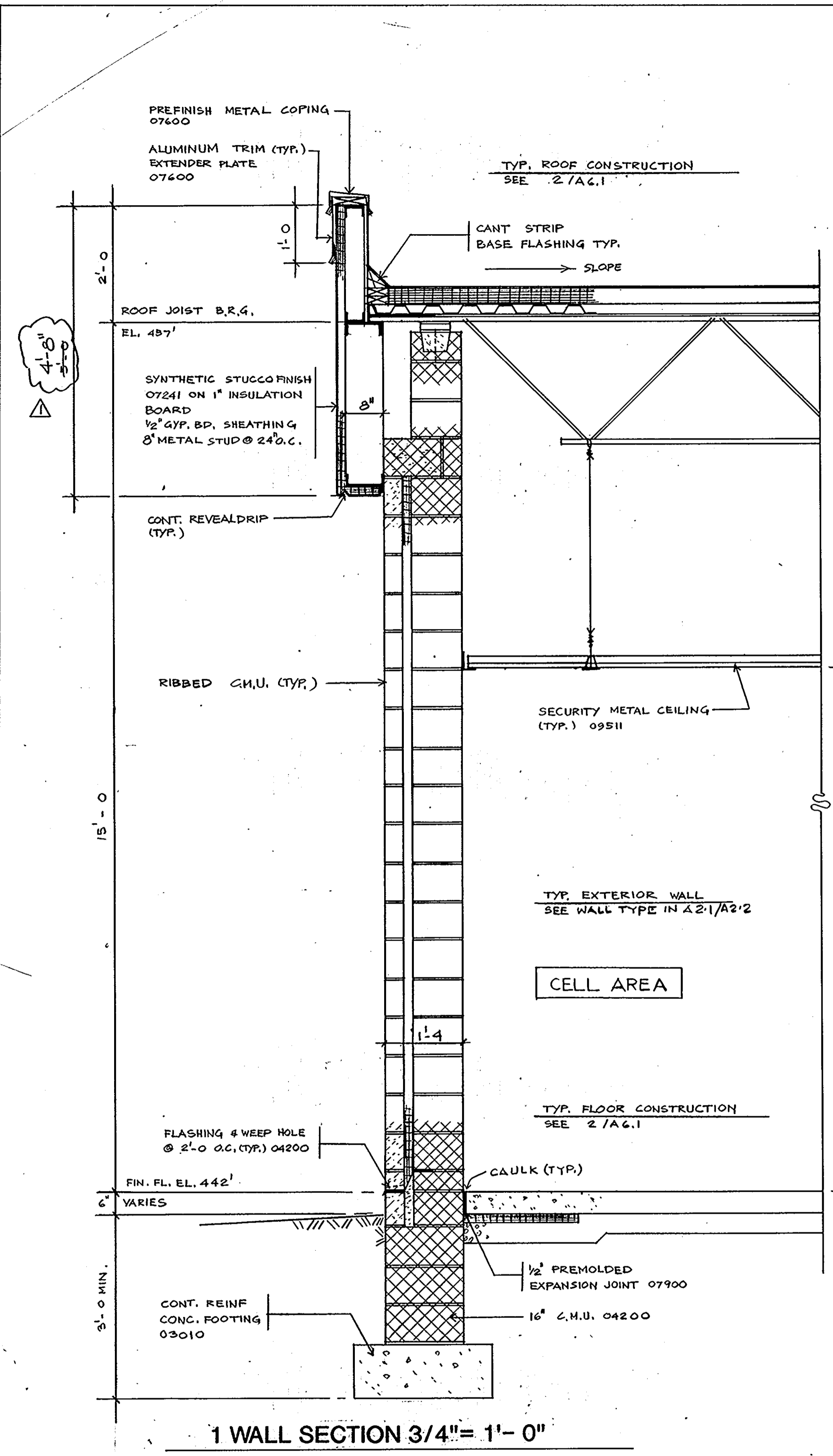
IN ASSOCIATION WITH:
 CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
 STRUCTURAL ENGINEER: QDDESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
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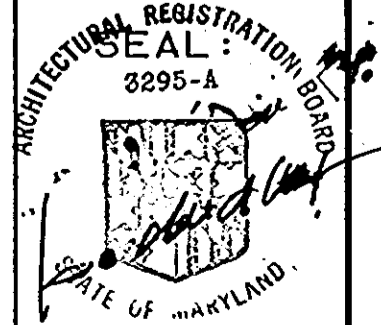
WALL SECTIONS
 HOWARD COUNTY PUBLIC SAFETY COMPLEX
 SCAGGSVILLE ANNEX
 11226 ROUTE 216
 LAUREL, MD. 20707

27 OF 90
 CAPITAL PROJECT NO. C-0227
 DATE: 3-25-92
 DRAWING NO. **A6.1**



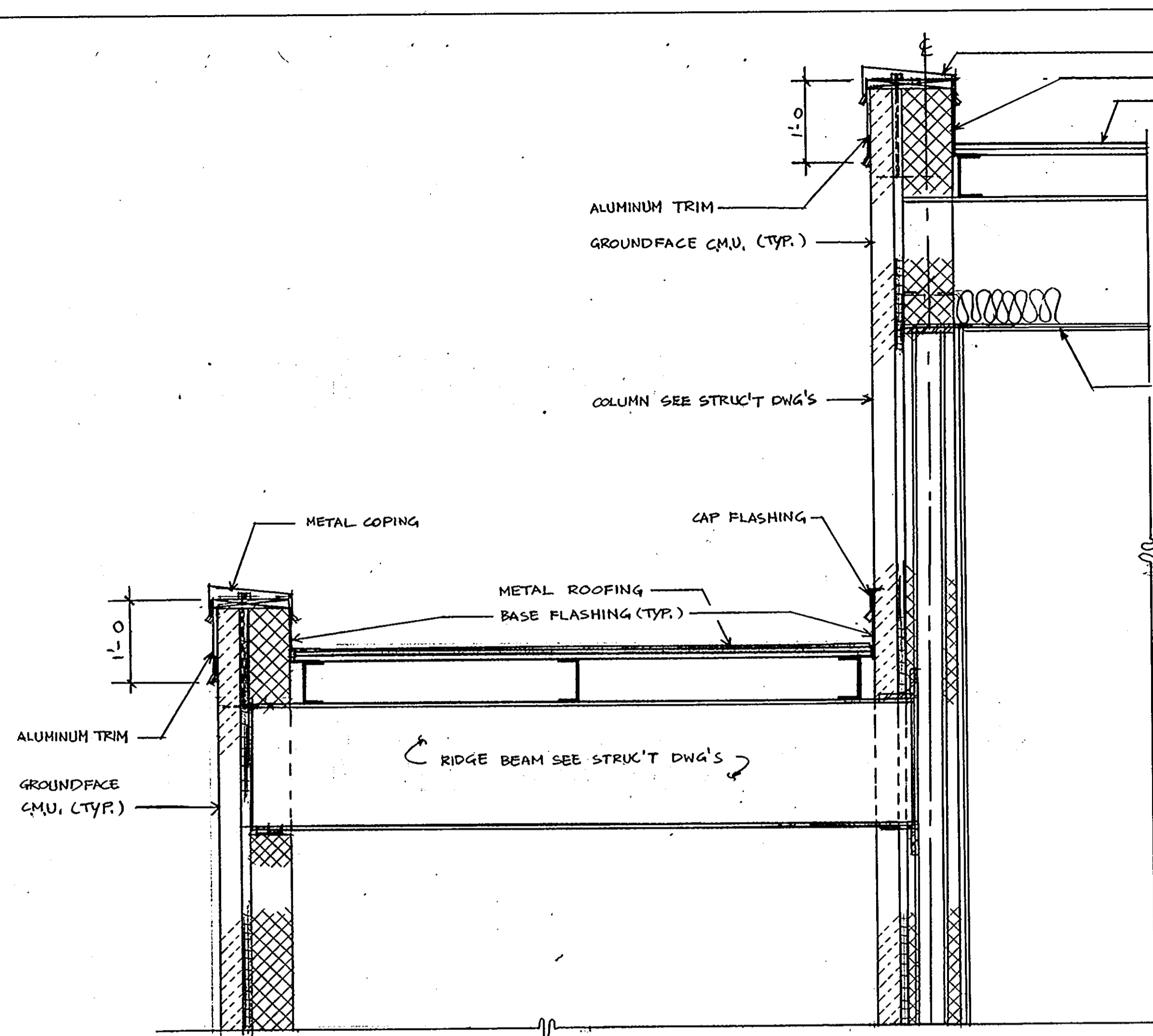
ARCHITECTURAL TECHNOLOGIES INC.
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 9192 Red Branch Rd. Suite 300
 Columbia MD. 21045 (301) 995-4067

IN ASSOCIATION WITH:
 CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
 STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
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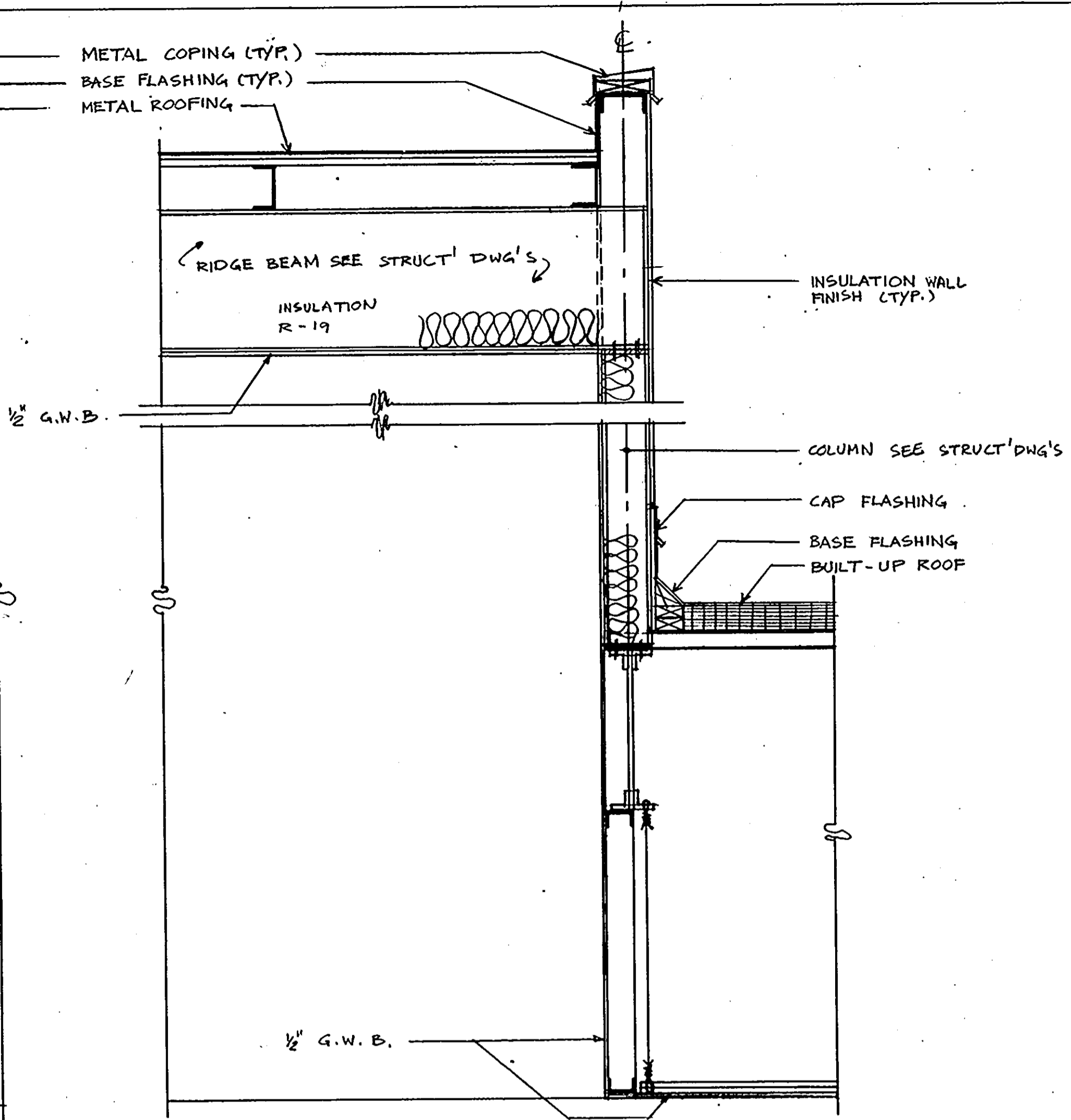


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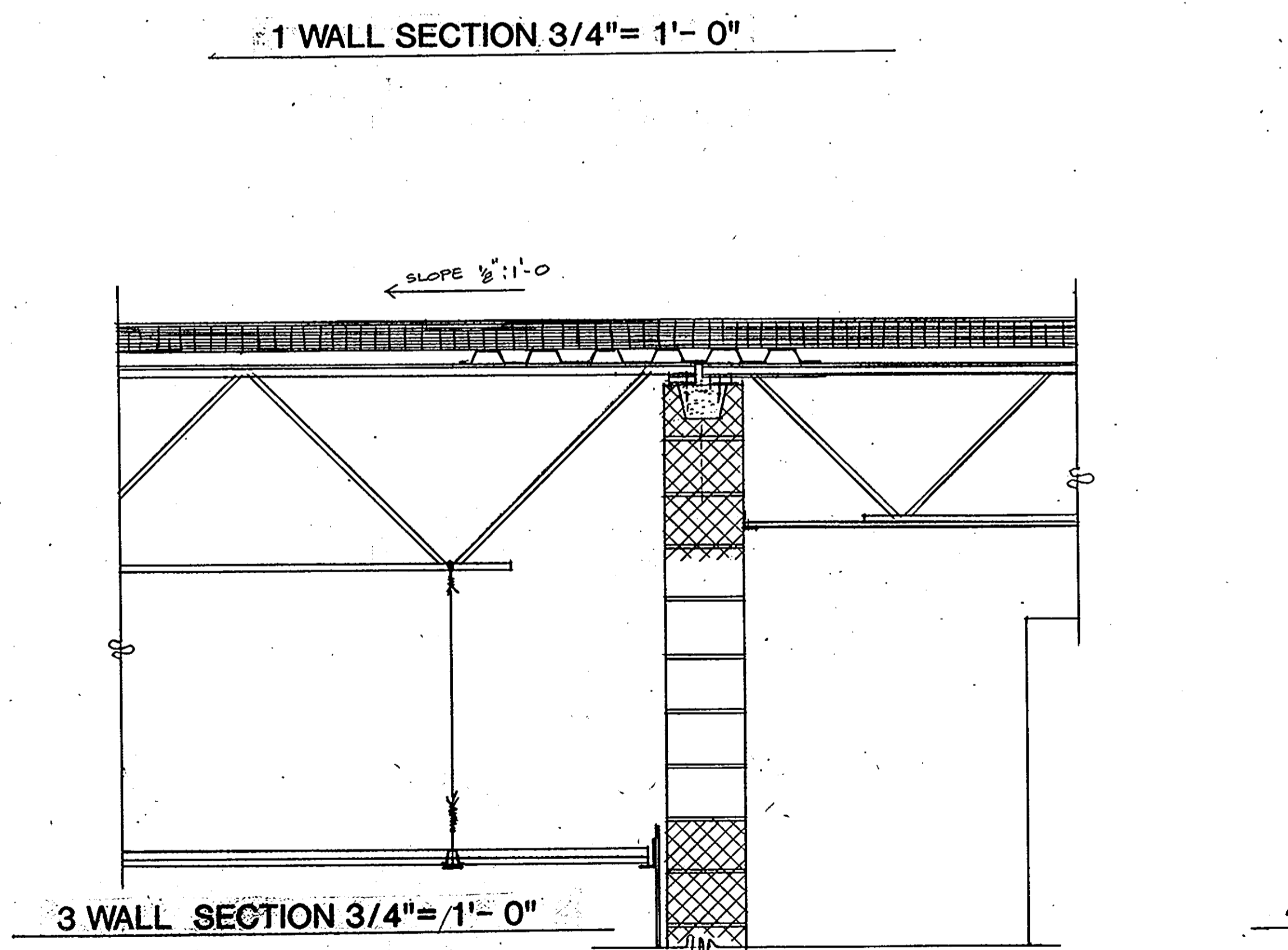
WALL SECTIONS	28 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 3-25-92 DRAWING NO. A6.2



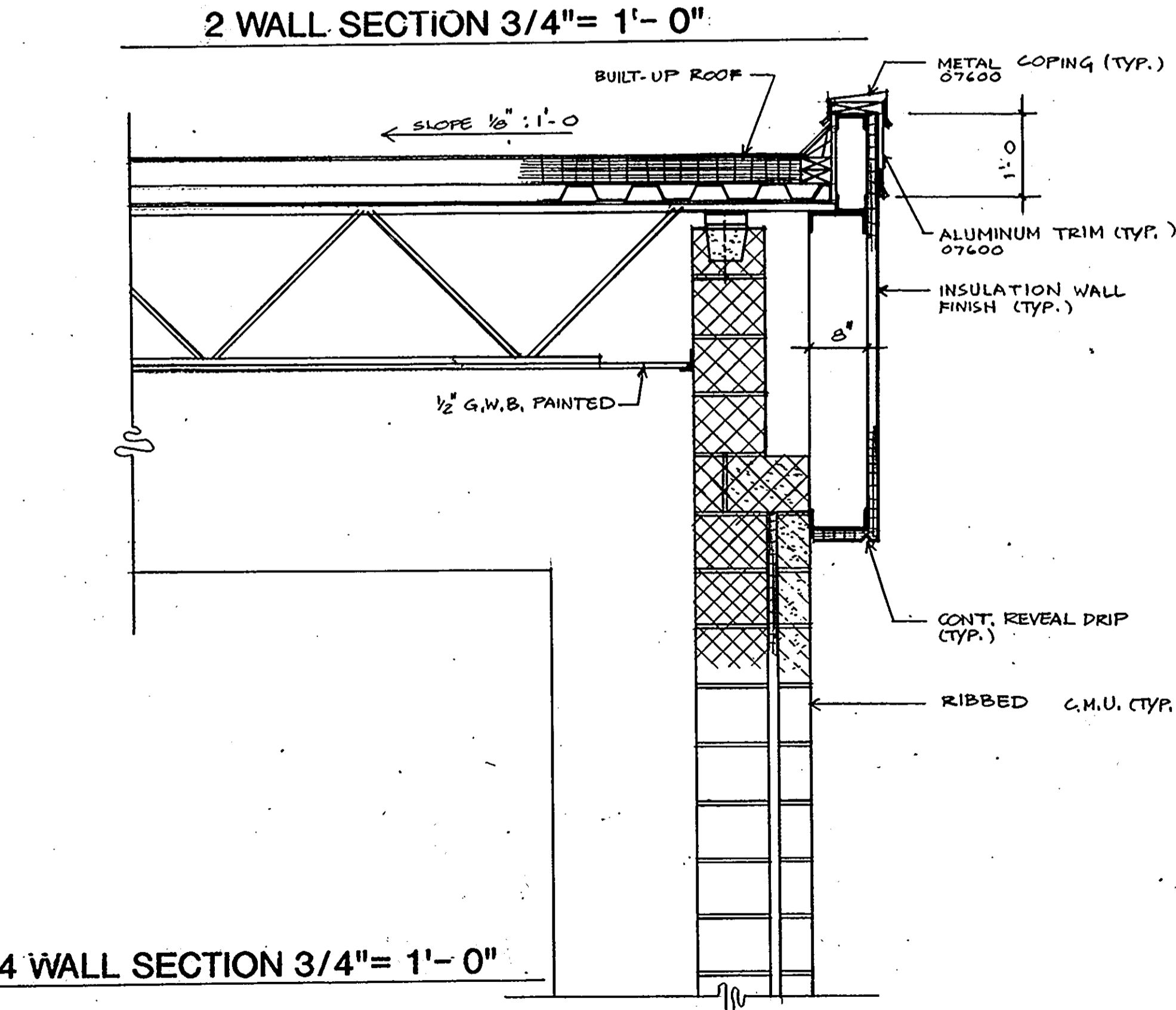
1 WALL SECTION 3/4" = 1'-0"



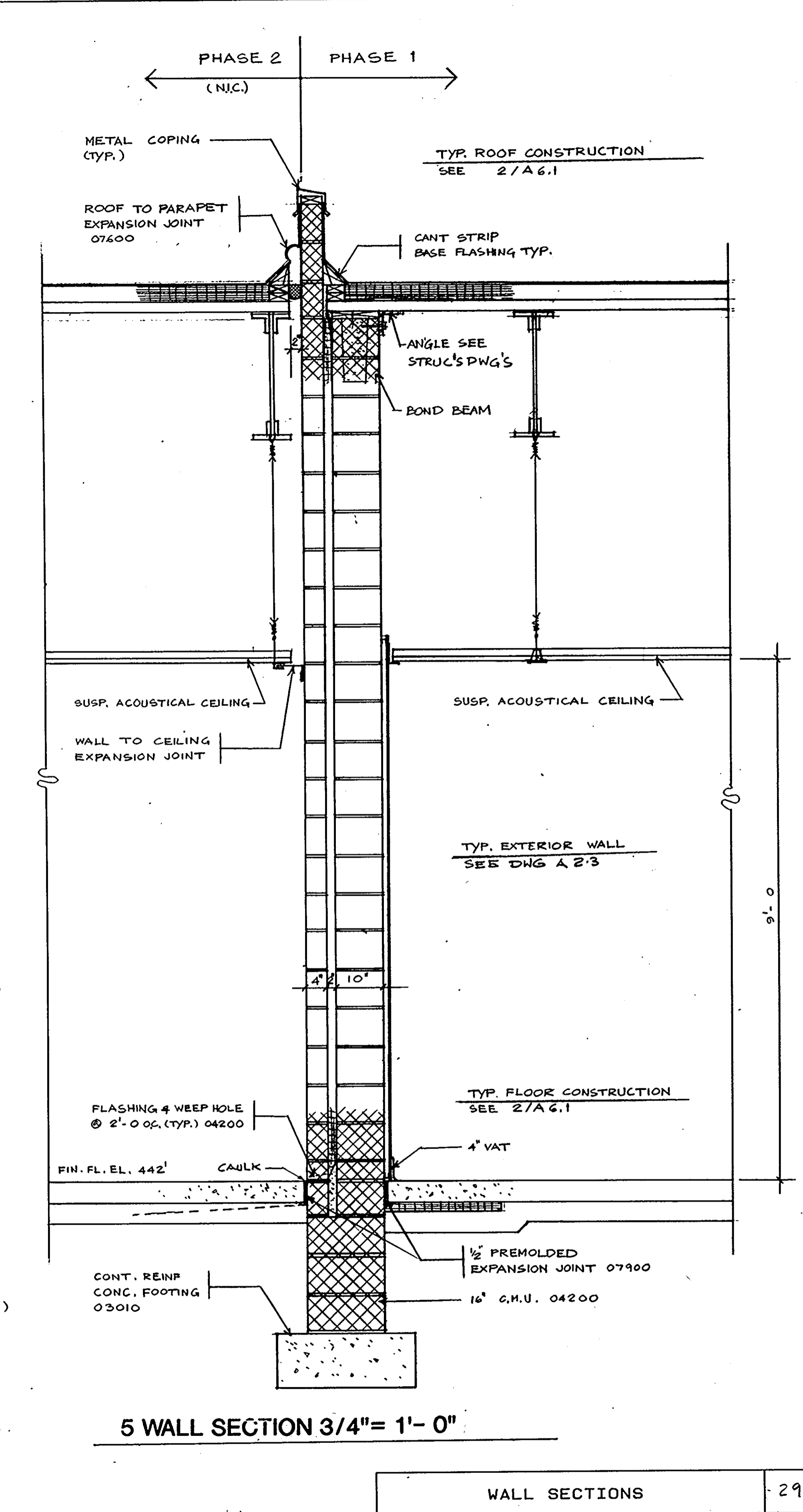
2 WALL SECTION 3/4" = 1'-0"



3 WALL SECTION 3/4" = 1'-0"



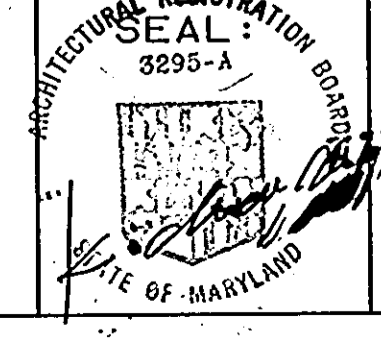
4 WALL SECTION 3/4" = 1'-0"



5 WALL SECTION 3/4" = 1'-0"

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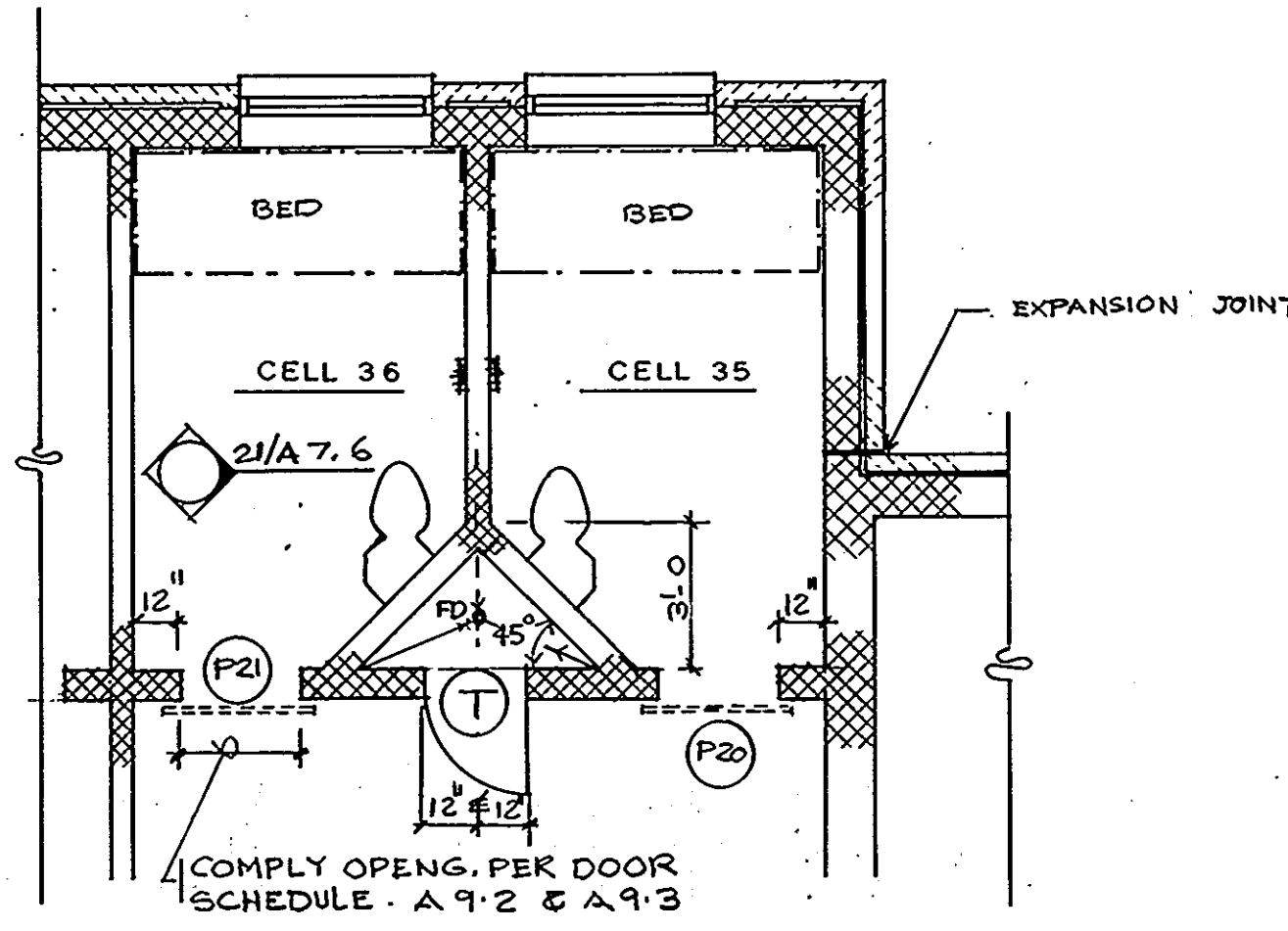
IN ASSOCIATION WITH:
 CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
 STRUCTURAL ENGINEER: GODESH ENGINEERING SERVICES, INC.
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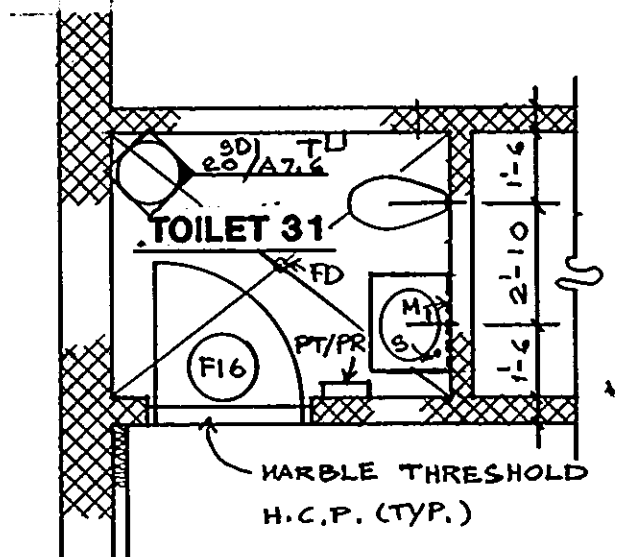
REVISIONS	
AS BUILT	11/24/94

WALL SECTIONS
 HOWARD COUNTY
 PUBLIC SAFETY COMPLEX
 SCAGGSVILLE ANNEX
 11226 ROUTE 216
 LAUREL, MD. 20707

29 OF 90
 CAPITAL PROJECT NO. C - 0227
 DATE: 3-25-92
 DRAWING NO. **A6.3**

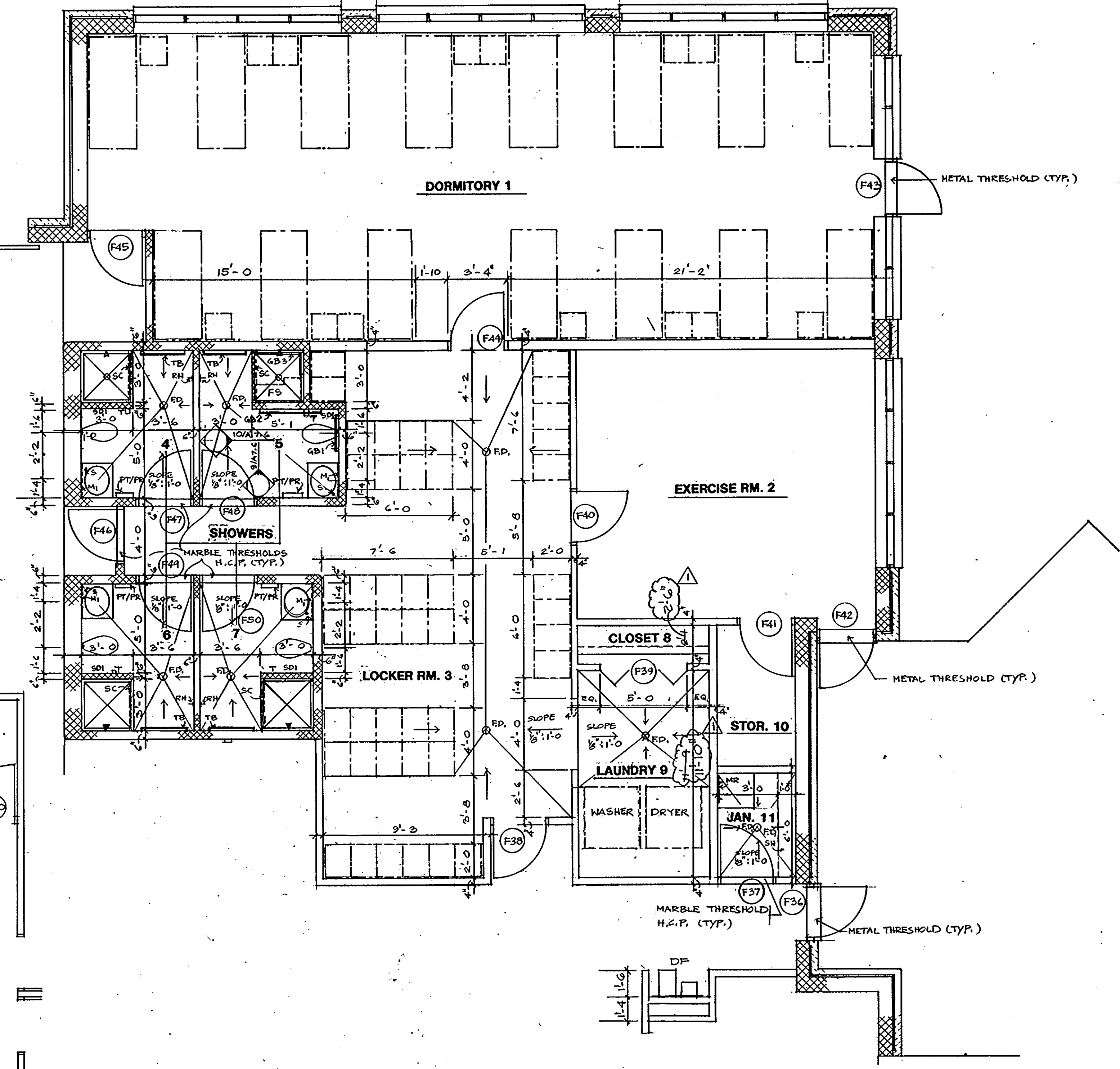


4. DETAIL FLOOR PLAN 1/4" = 1'-0"
TYP. FOR CELLS

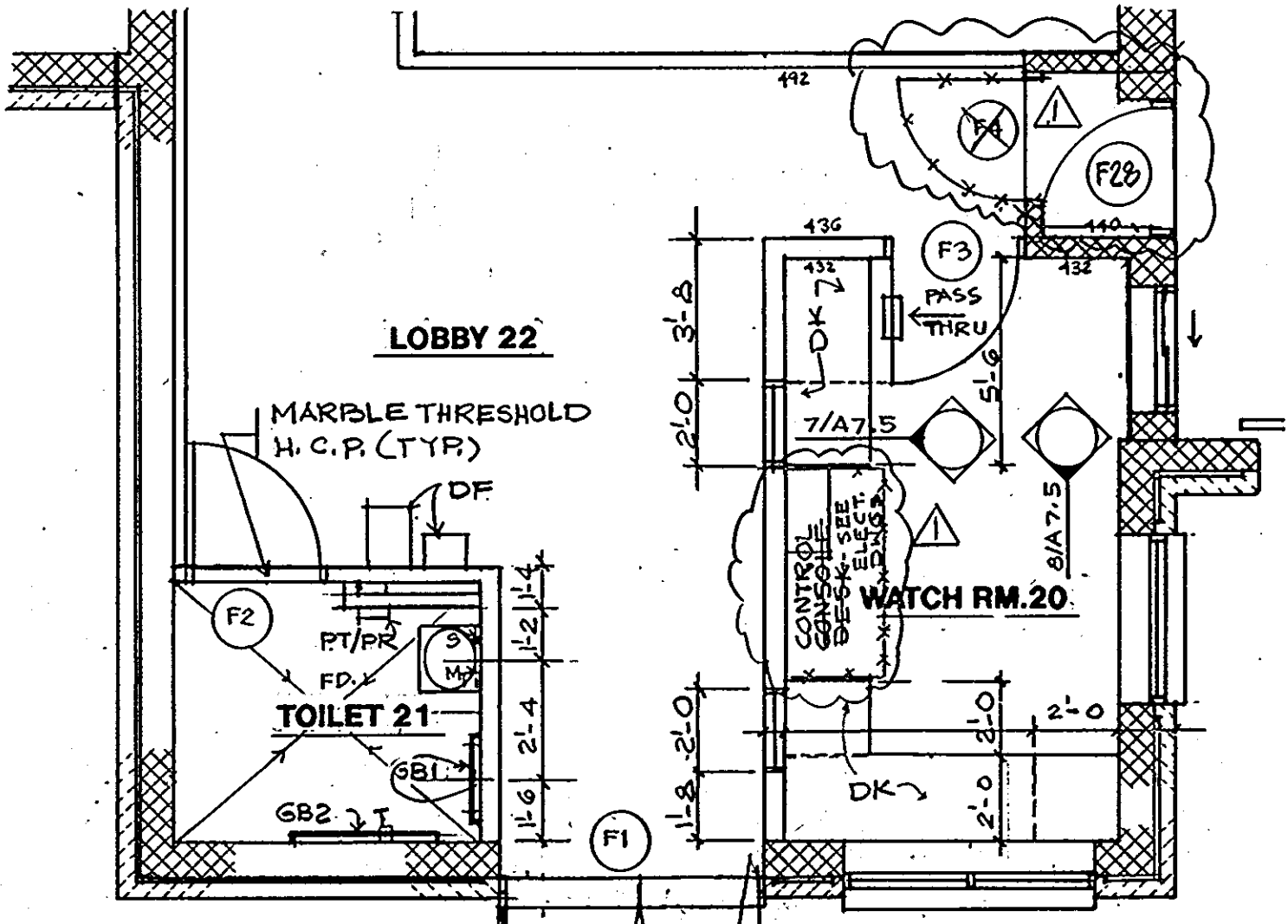


3. DETAIL FLOOR PLAN 1/4" = 1'-0"

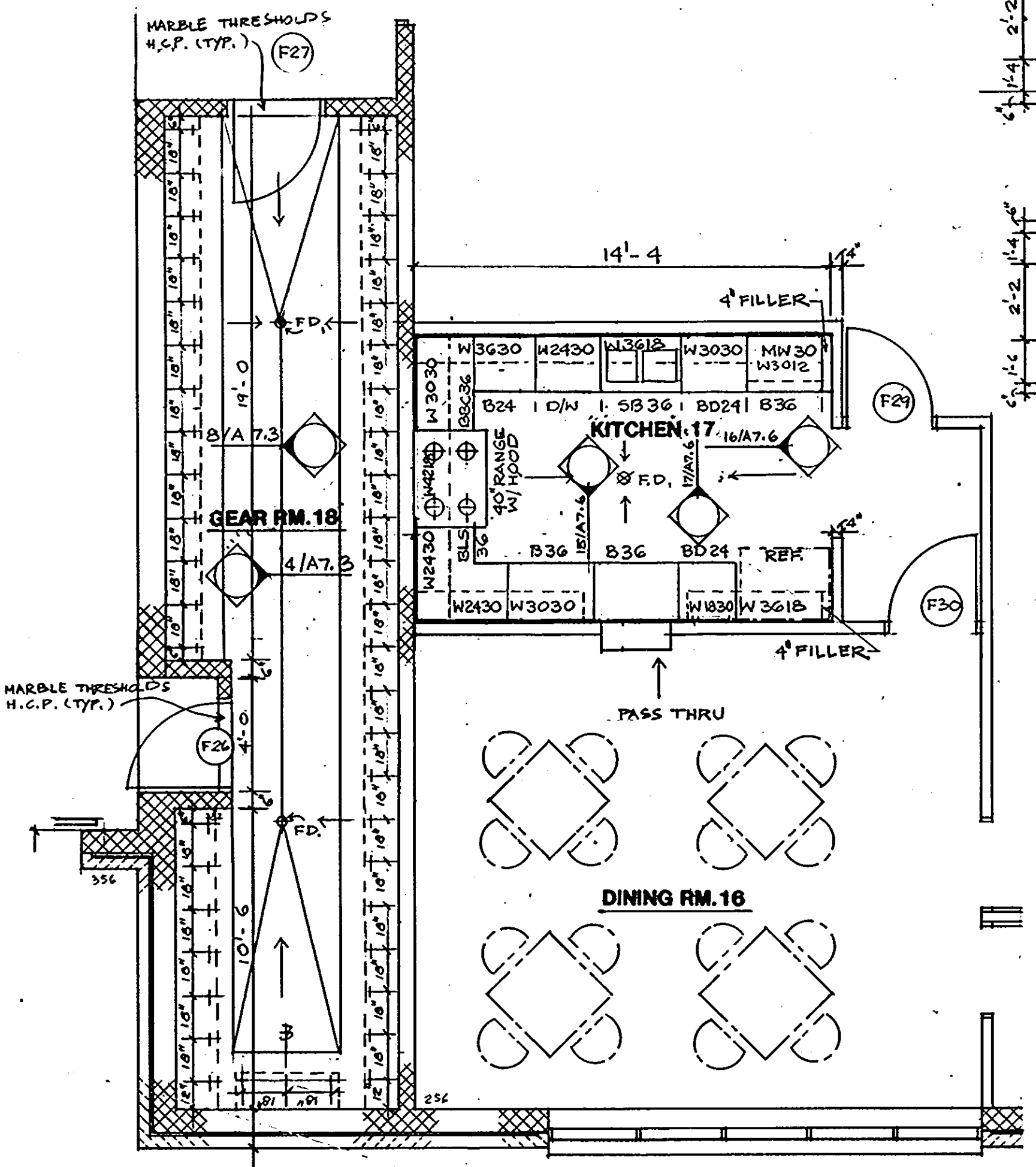
6. LEGEND:
- T: TOILET TISSUE HOLDER; BOBRICK B288 OR EQUAL.
 - PT/FR: SEMIRECESSED PAPER TOWEL DISPENSER/RECEPTACLE; BOBRICK B38032 OR EQUAL.
 - S: LAVATORY MOUNTED SOAP DISPENSER; BOBRICK B2226 OR EQUAL.
 - M: 5/8" FRAMED MIRROR W/SHELF; BOBRICK B292-3429 OR EQUAL.
 - SD1: RECESSED SANITARY NAPKIN DISPOSAL; BOBRICK B3303 OR EQUAL.
 - SD2: SANITARY NAPKIN DISPOSAL; BOBRICK B354 OR EQUAL.
 - FD: FLOOR DRAIN.
 - MR: MOP RACK; BOBRICK B223 OR EQUAL.
 - SH: SHELF 1" x AS SHOWN ON PLAN; BOBRICK B298 OR EQUAL.
 - DK: LAMINATED COUNTER TOP.
 - GB1: GRAB BAR 36" LONG x 1-1/2" DIA; BOBRICK B6206.99 OR EQUAL.
 - GB2: GRAB BAR 42" LONG x 1-1/2" DIA; BOBRICK B6206.99 OR EQUAL.
 - GB3: GRAB BAR 42" SHOWER 2" x 3"; BOBRICK B62616.99 OR EQUAL.
 - TB: TOWEL BAR 30" LONG; BOBRICK B530 OR EQUAL.
 - RH: ROBE HOOK; BOBRICK B2116 OR EQUAL.
 - SC: SHOWER CURTAIN ROD & HOOK; BOBRICK B207 & B204-1 OR EQUAL.
 - FS: FOLDING SHOWER SEAT; B518 (LEFT/RIGHT HAND SEATED AS SHOWN IN THE DRAWING); OR EQUAL.
 - DF: DRINKING FOUNTAIN; HALSEY TAYLOR CM-DFR.
 - M2: 3/8" FRAMED MIRROR FULL SIZE/OMNE DETAIL; BOBRICK B210 SERIES OR EQUAL.
- NOTE: ALL MODEL NUMBERS AS SHOWN ABOVE ARE TAKEN FROM THE SWEET'S CATALOG 1991.



1. DETAIL FLOOR PLAN 1/4" = 1'-0"



5. DETAIL FLOOR PLAN 1/4" = 1'-0"

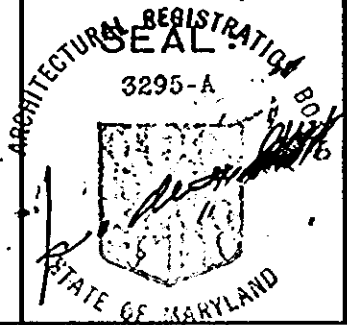


2. DETAIL FLOOR PLAN 1/4" = 1'-0"

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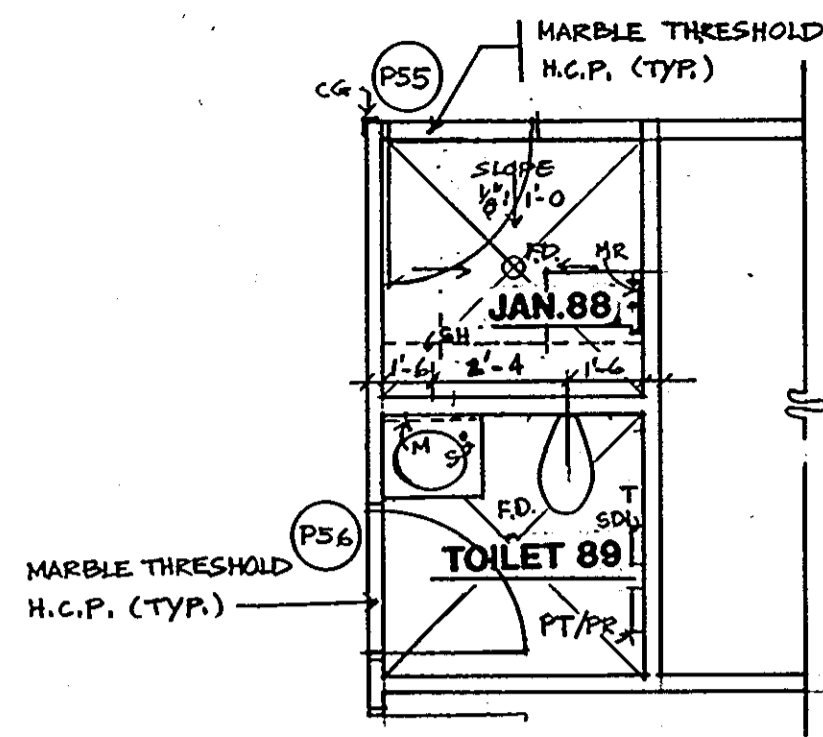
IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: GODESH ENGINEERING SERVICES, INC.
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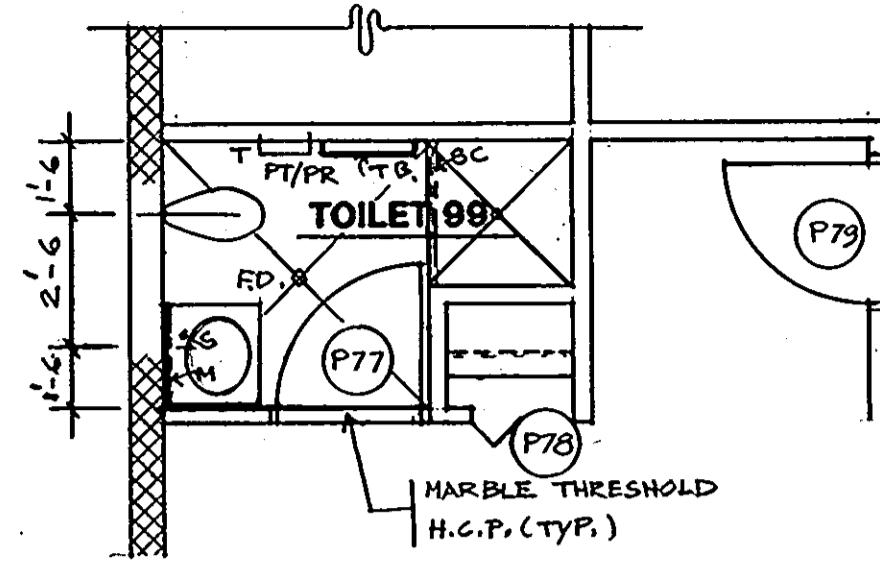


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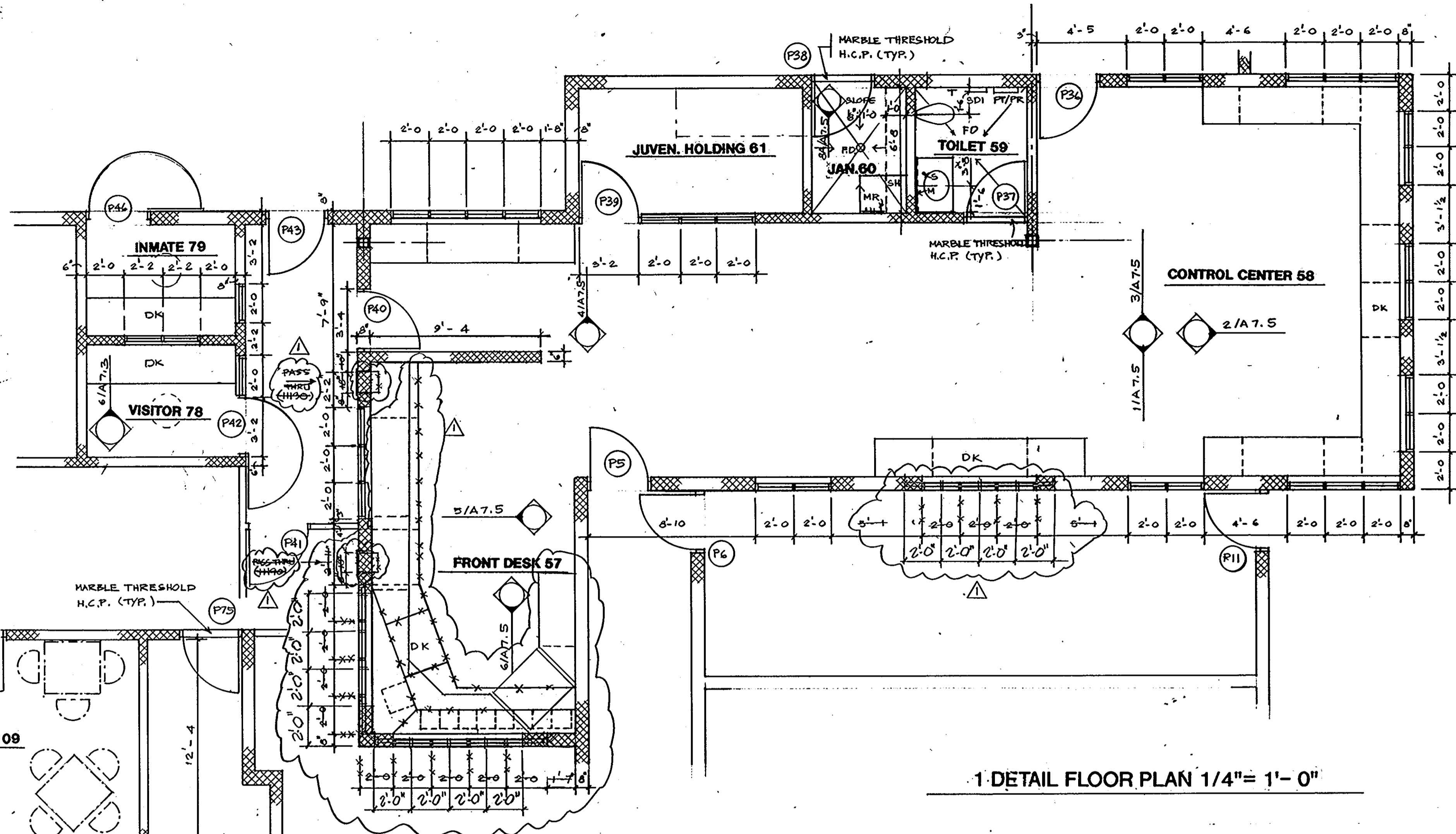
DETAIL PLANS FIRE STATION	30 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 3-25-92
	DRAWING NO. A 7.1



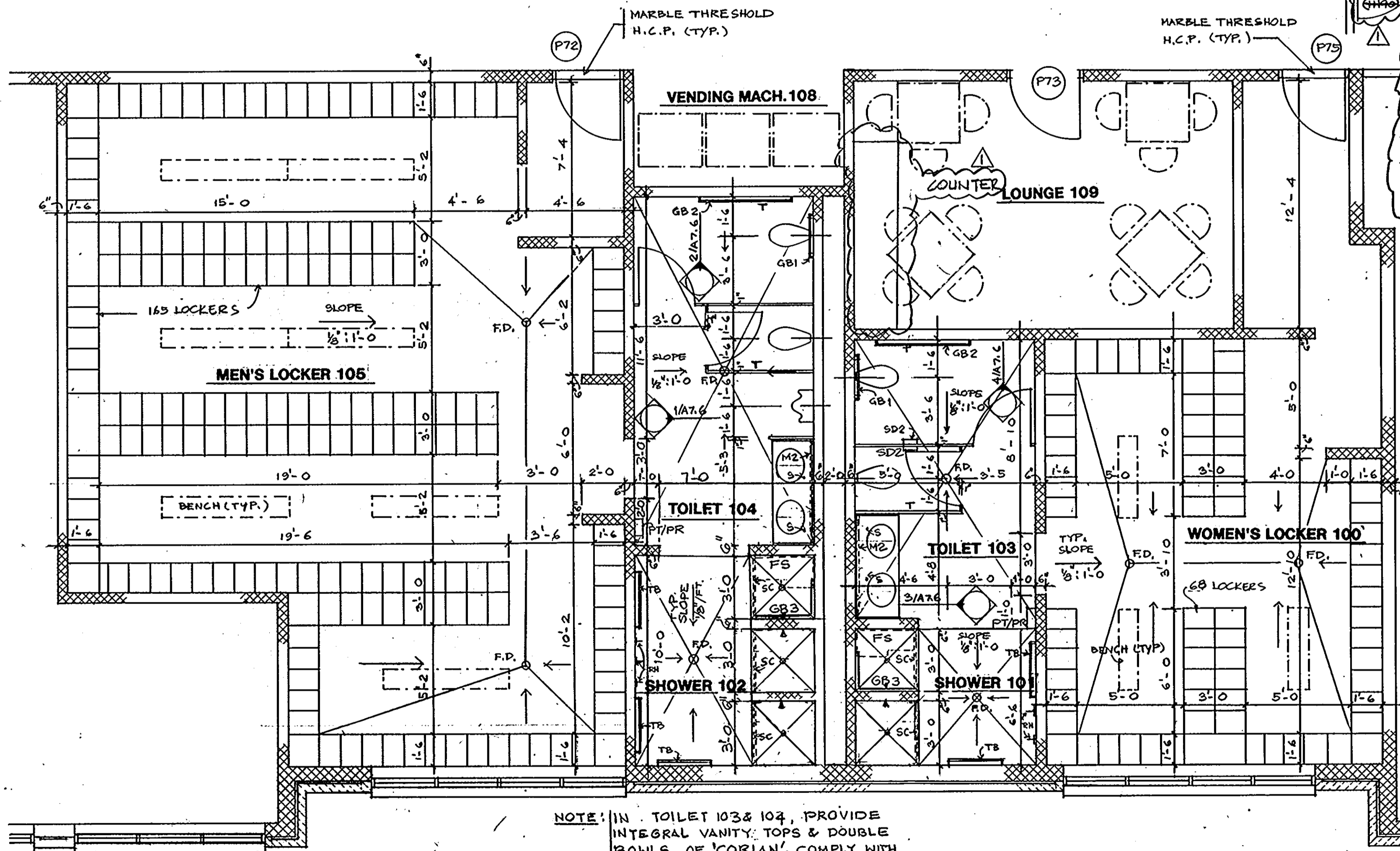
5 DETAIL FLOOR PLAN 1/4"= 1'-0"



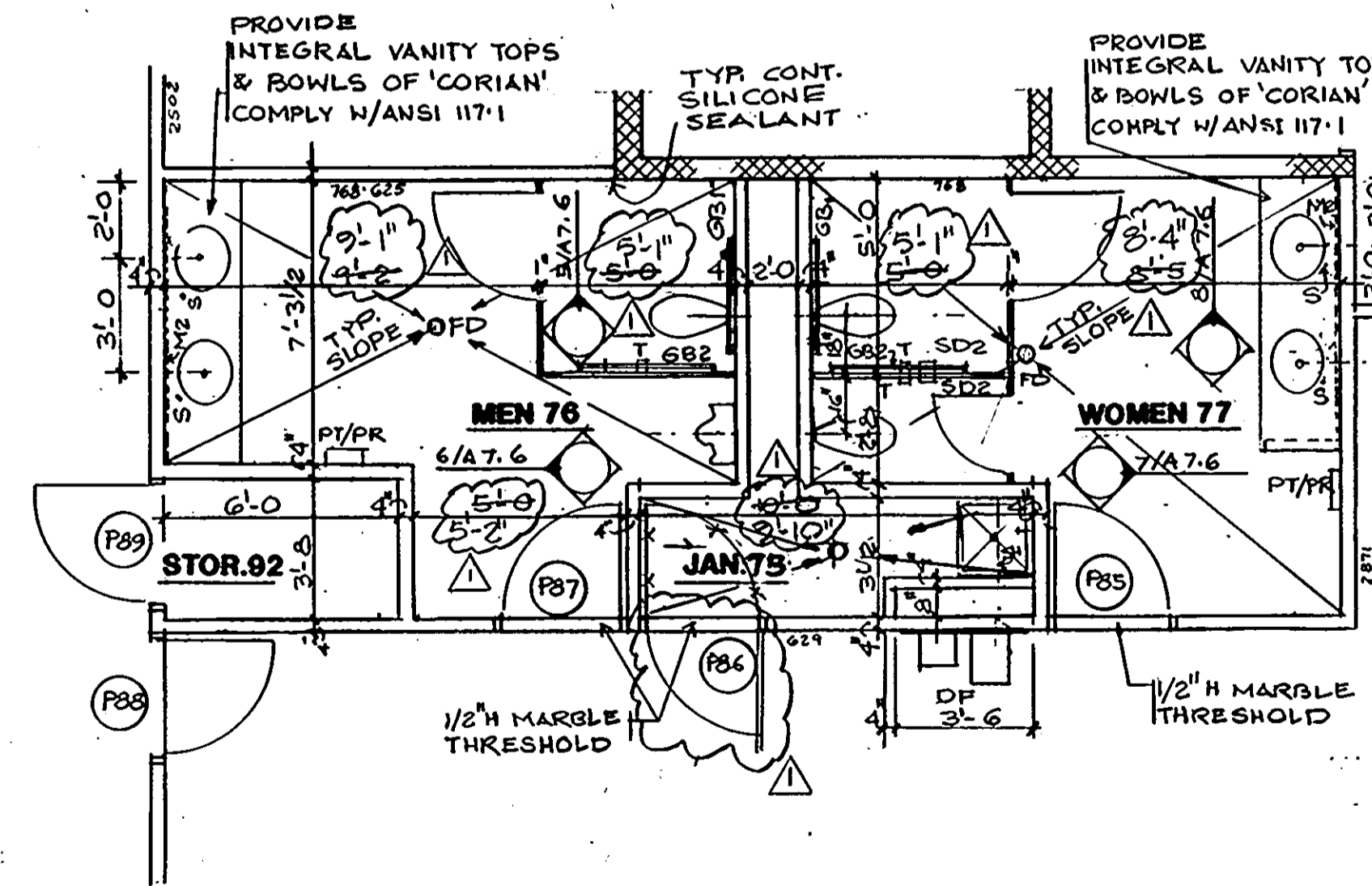
4 DETAIL FLOOR PLAN 1/4"= 1'-0"



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



3 DETAIL FLOOR PLAN 1/4"= 1'-0"



2 DETAIL FLOOR PLAN 1/4"= 1'-0"

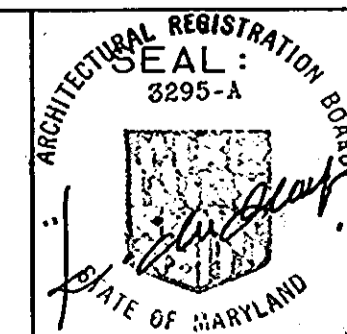
6. LEGEND:
- T: TOILET TISSUE HOLDER; BOBRICK B288 OR EQUAL.
 - PT/PR: SEMIRECESSED PAPER TOWEL DISPENSER/RECEPTACLE; BOBRICK B38032 OR EQUAL.
 - S: LAVATORY MOUNTED SOAP DISPENSER; BOBRICK B8226 OR EQUAL.
 - S/S: S/S FRAMED MIRROR W/SHELF; BOBRICK B292-1824 OR EQUAL.
 - SD1: RECESSED SANITARY NAPKIN DISPOSAL; BOBRICK B35303 OR EQUAL.
 - SD2: SANITARY NAPKIN DISPOSAL; BOBRICK B354 OR EQUAL.
 - FD: FLOOR DRAIN.
 - MR: MOP RACK; BOBRICK B223 OR EQUAL.
 - SH: SHELF 1' x AS SHOWN ON PLAN; BOBRICK B298 OR EQUAL.
 - DK: LAMINATED COUNTER TOP.
 - GB1: GRAB BAR 36" LONG x 1-1/2" DIA; BOBRICK B6206.99 OR EQUAL.
 - GB2: GRAB BAR 42" LONG x 1-1/2" DIA; BOBRICK B6206.99 OR EQUAL.
 - GB3: GRAB BAR AT SHOWER 2' x 3'; BOBRICK B62616.99 OR EQUAL.
 - TB: TOWEL BAR 30" LONG; BOBRICK B530 OR EQUAL.
 - RH: ROBE HOOK; BOBRICK B2116 OR EQUAL.
 - SC: SHOWER CURTAIN ROD & HOOK; BOBRICK B207 & B204-1 OR EQUAL.
 - FS: FOLDING SHOWER SEAT; B518 (LEFT/RIGHT HAND SEATED AS SHOWN IN THE DRAWING) OR EQUAL.
 - DF: DRINKING FOUNTAIN; HALSEY TAYLOR C/4-ESR.
 - M2: 3/5 FRAMED MIRROR FULL SHELF DETAIL; BOBRICK B290 OR EQUAL.
- NOTE: ALL MODEL NUMBERS AS SHOWN ABOVE ARE TAKEN FROM THE SHEET'S CATALOG 1991.

NOTE: IN TOILET 103 & 104, PROVIDE INTEGRAL VANITY TOPS & DOUBLE BOWLS OF 'CORIAN' COMPLY WITH ANSI I17.1

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 Architects and Construction Consultants
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 Columbia MD, 21045 (301) 995-4067

IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER:	E B A ENGINEERING, INC.
STRUCTURAL ENGINEER:	QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING



REVISIONS

AS-BUILT 11/24/94

DETAIL PLANS
 POLICE STATION - PHASE 1

HOWARD COUNTY
 PUBLIC SAFETY COMPLEX

SCAGGSVILLE ANNEX
 11226 ROUTE 216
 LAUREL, MD. 20707

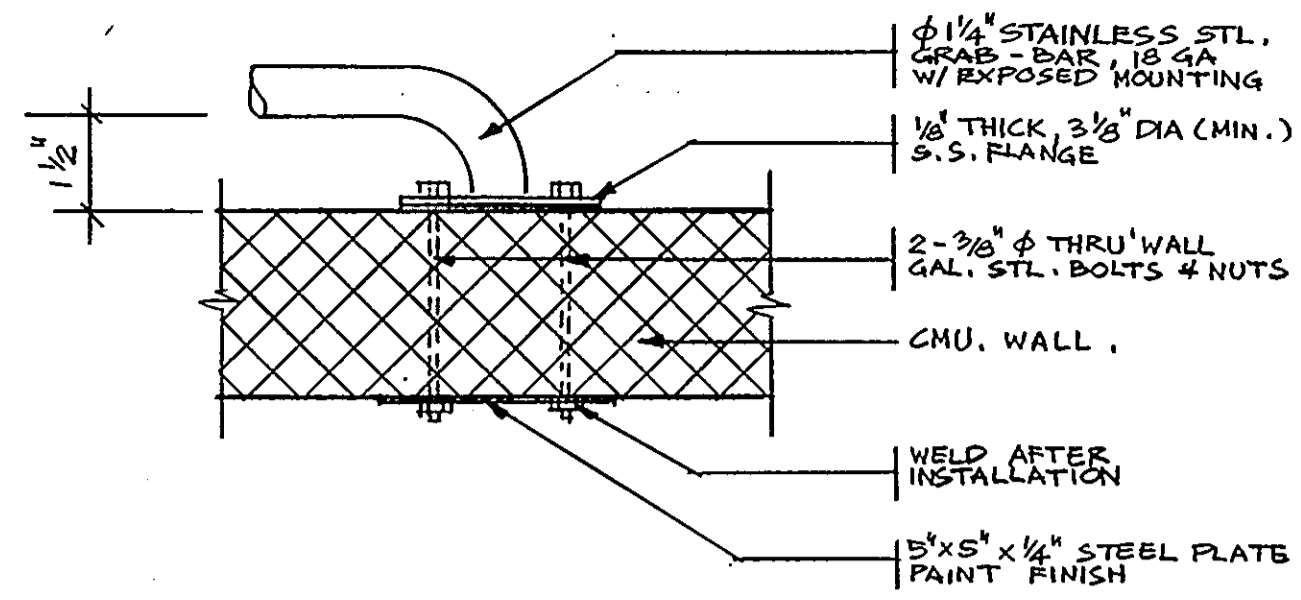
31 OF 90

CAPITAL PROJECT NO. C-0227

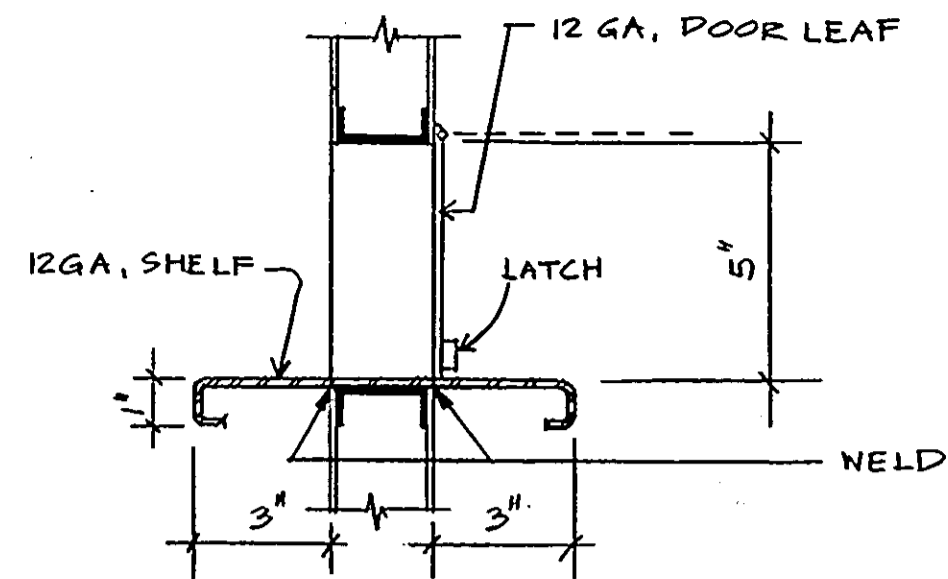
DATE: 3-25-92

DRAWING NO.

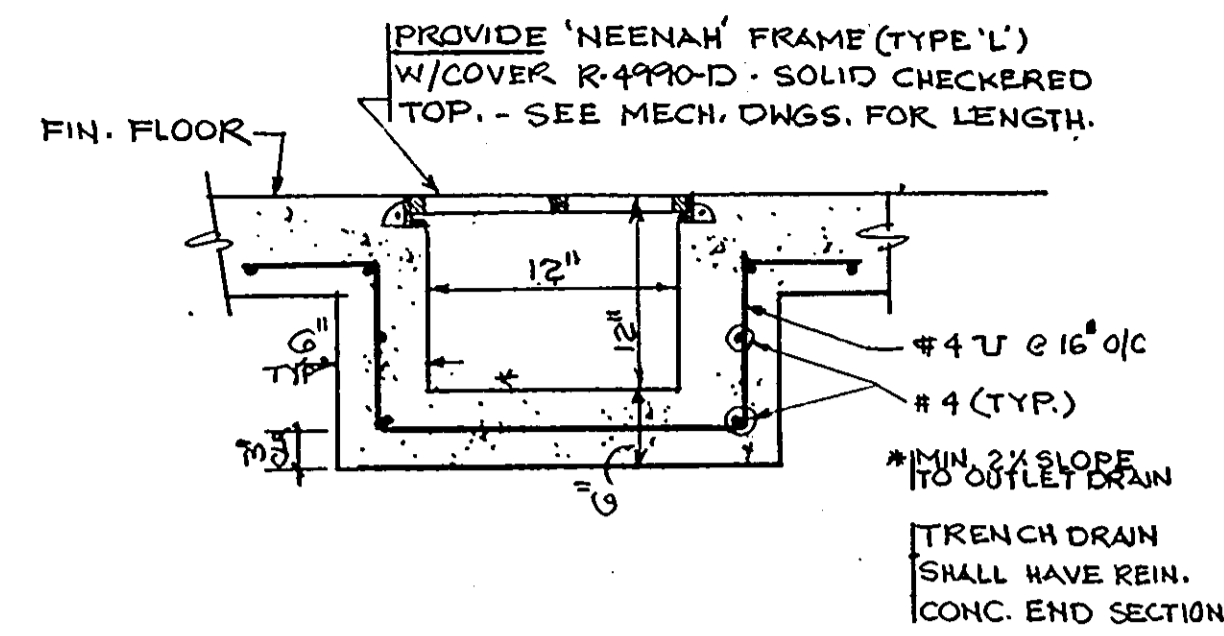
A7.2



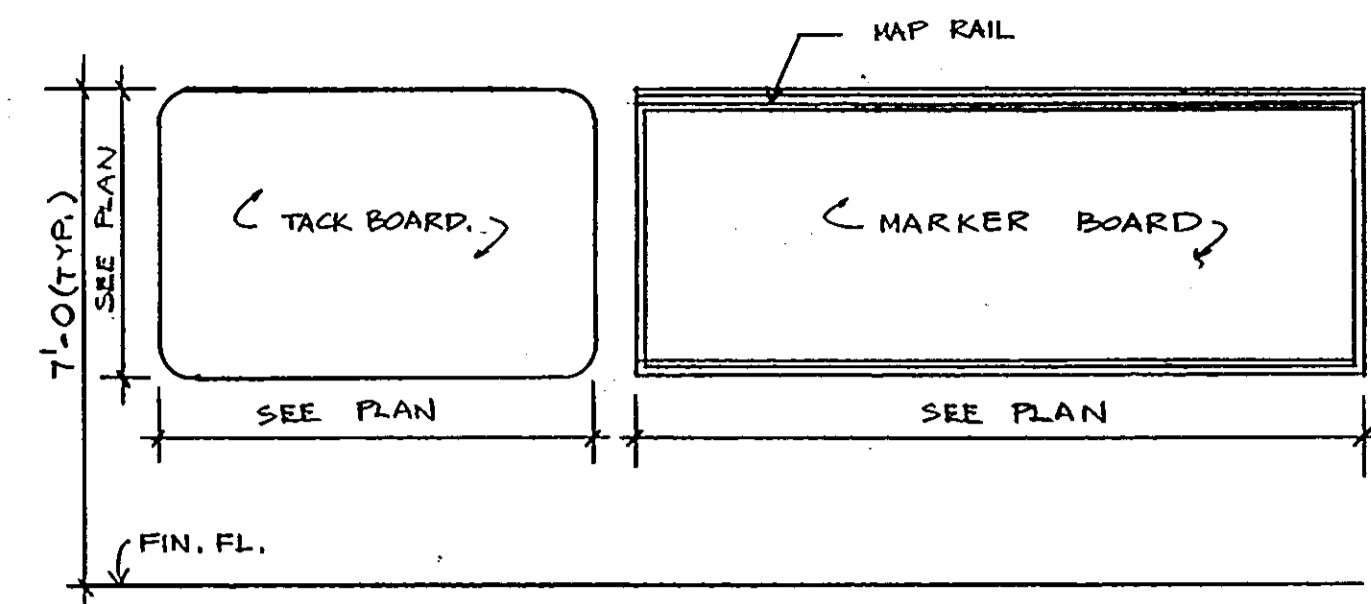
13 HANDCUFF BAR (HCB)
NO SCALE



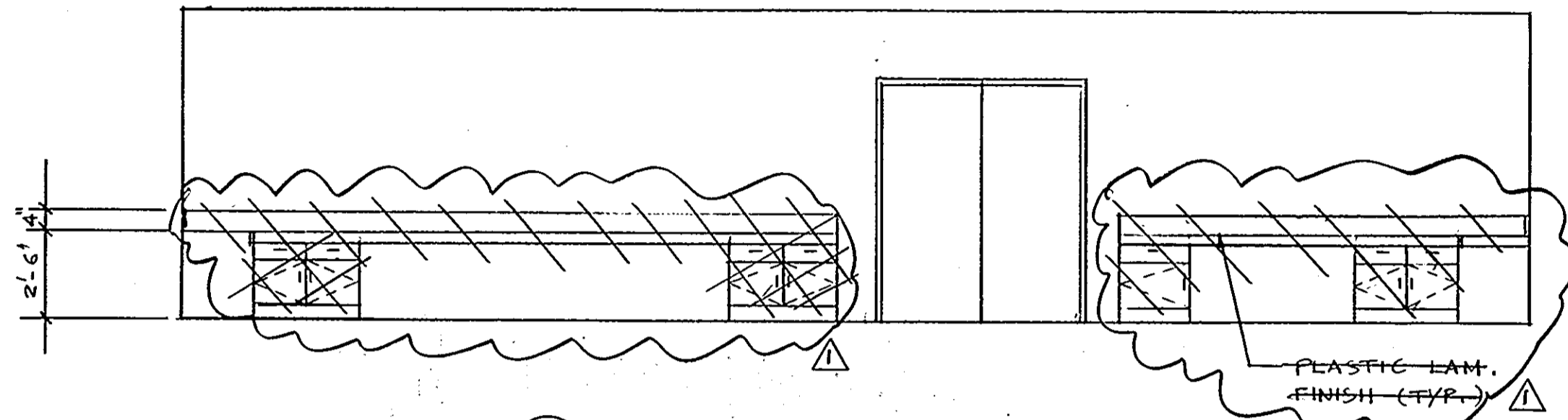
12 PASS THRU AT DOOR
NO SCALE



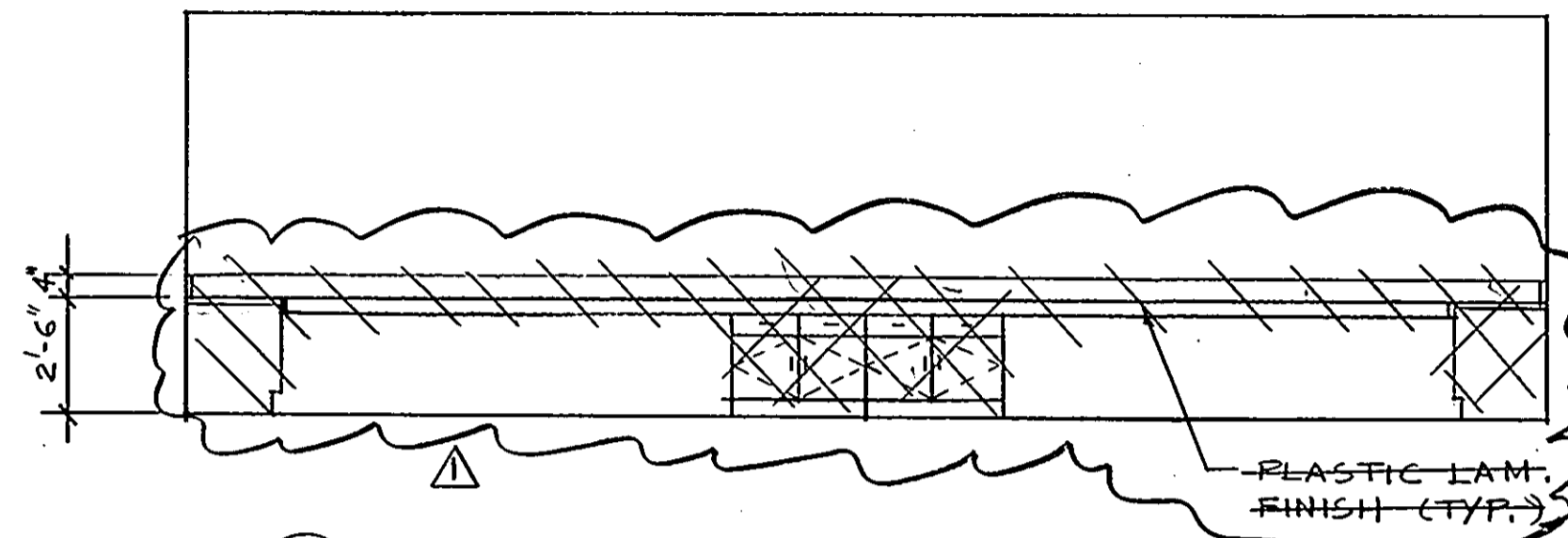
11. TYP. TRENCH DRAIN DETAIL
NO SCALE



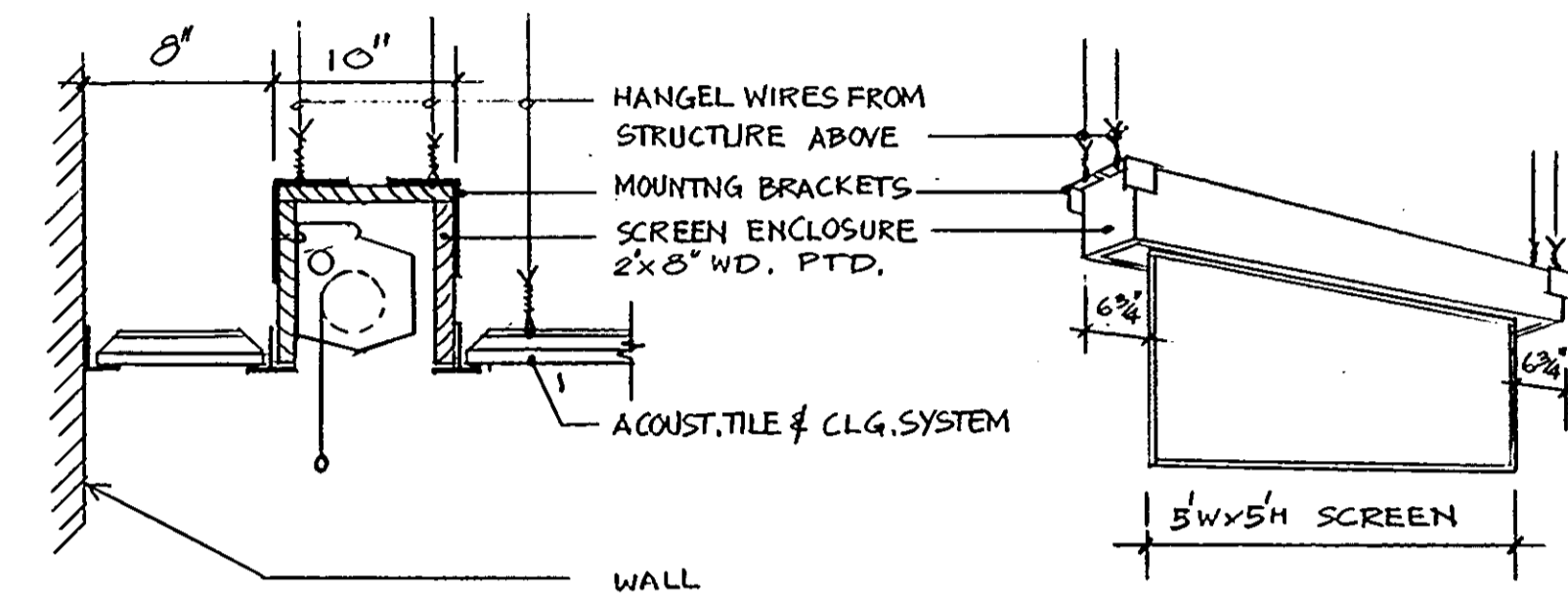
1 TACK & MARKER BOARD ELEVATION
NO SCALE



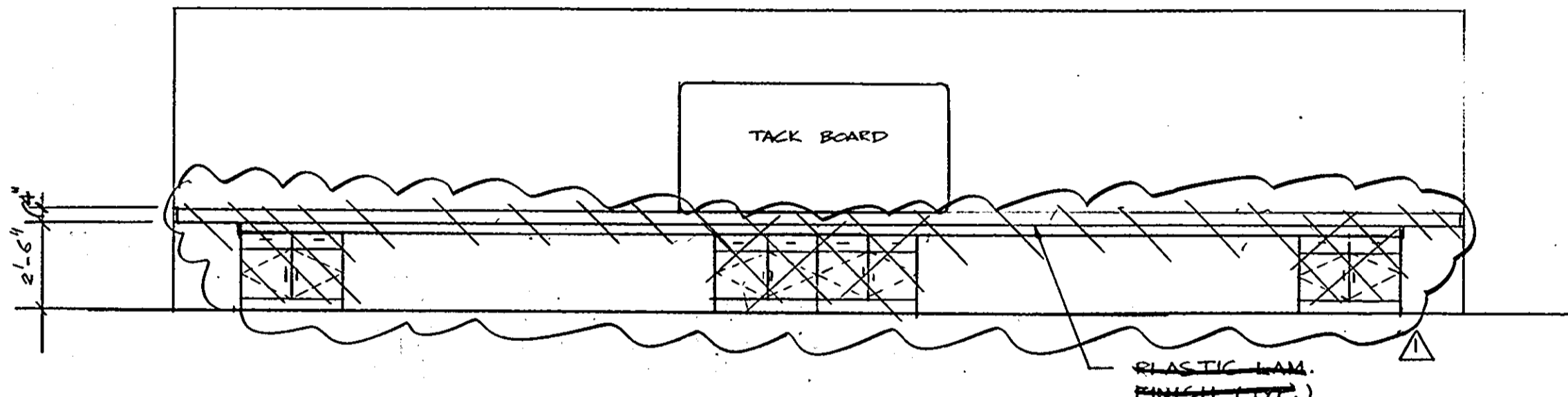
10 ELEVATION
1/4\"/>



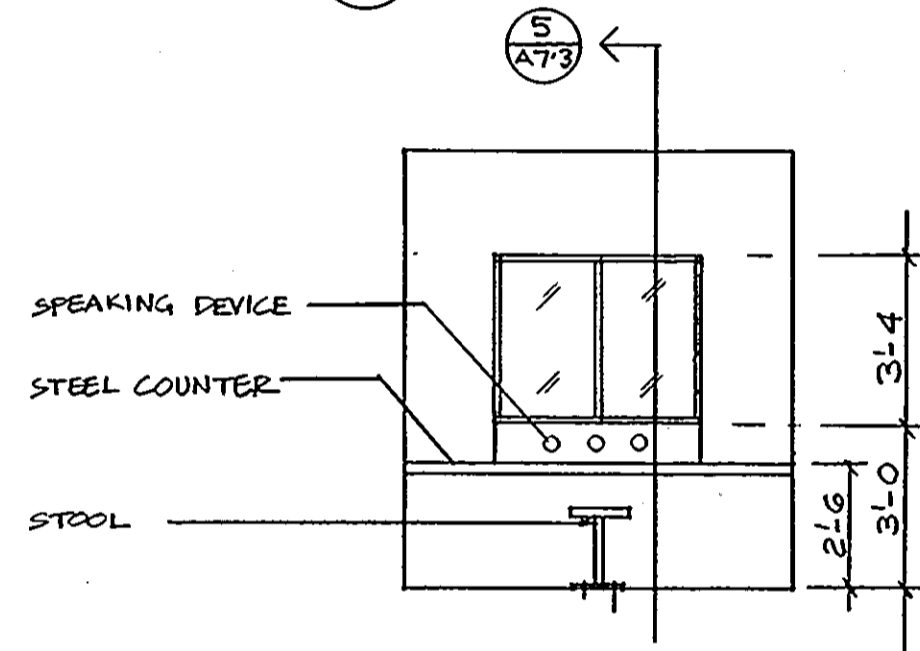
7 ELEVATION
1/4\"/>



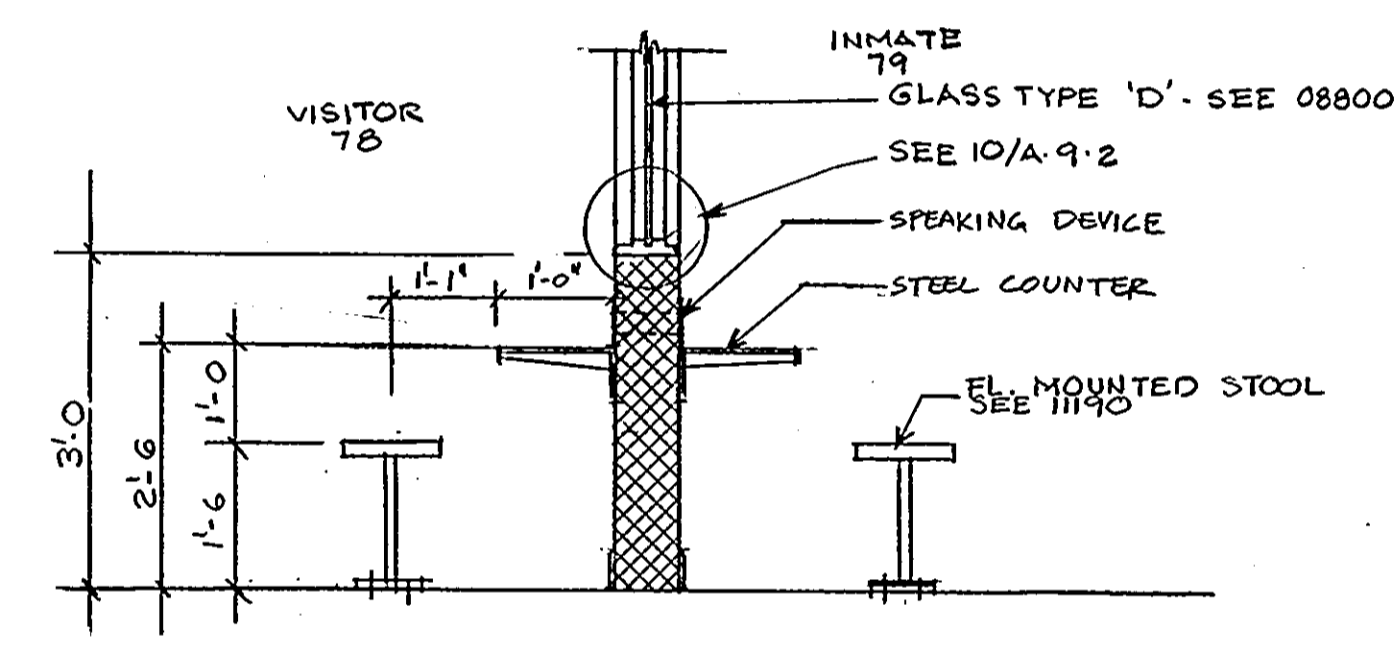
2 PROJECTION SCREEN
NO SCALE



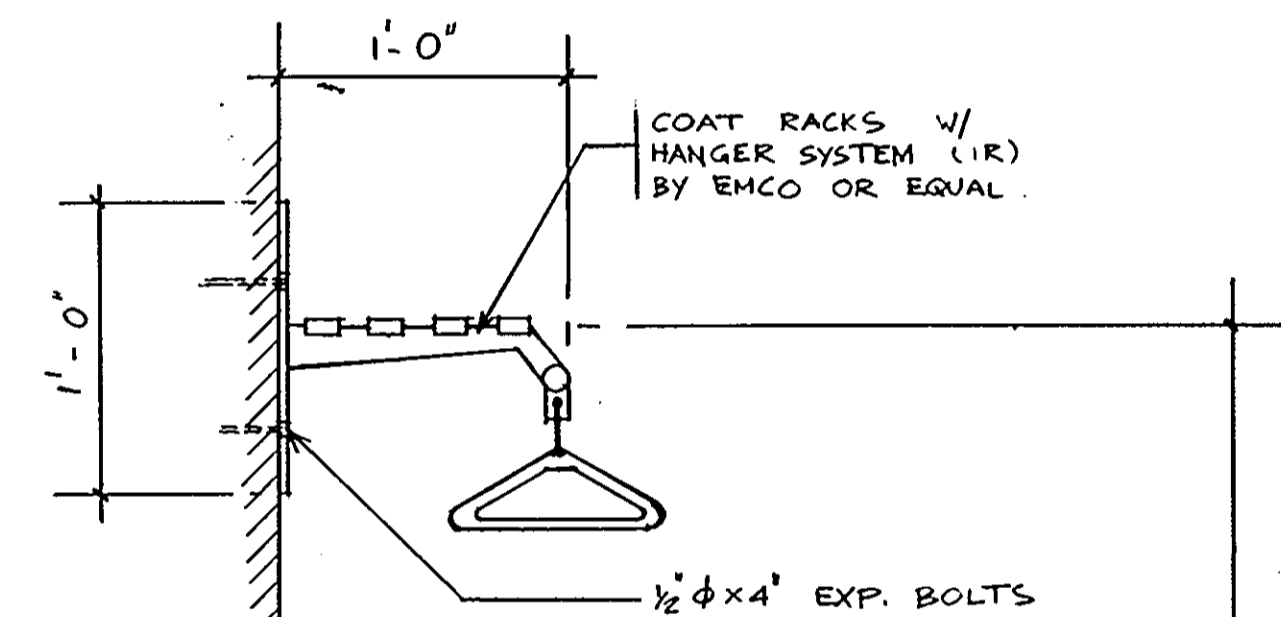
9 ELEVATION
1/4\"/>



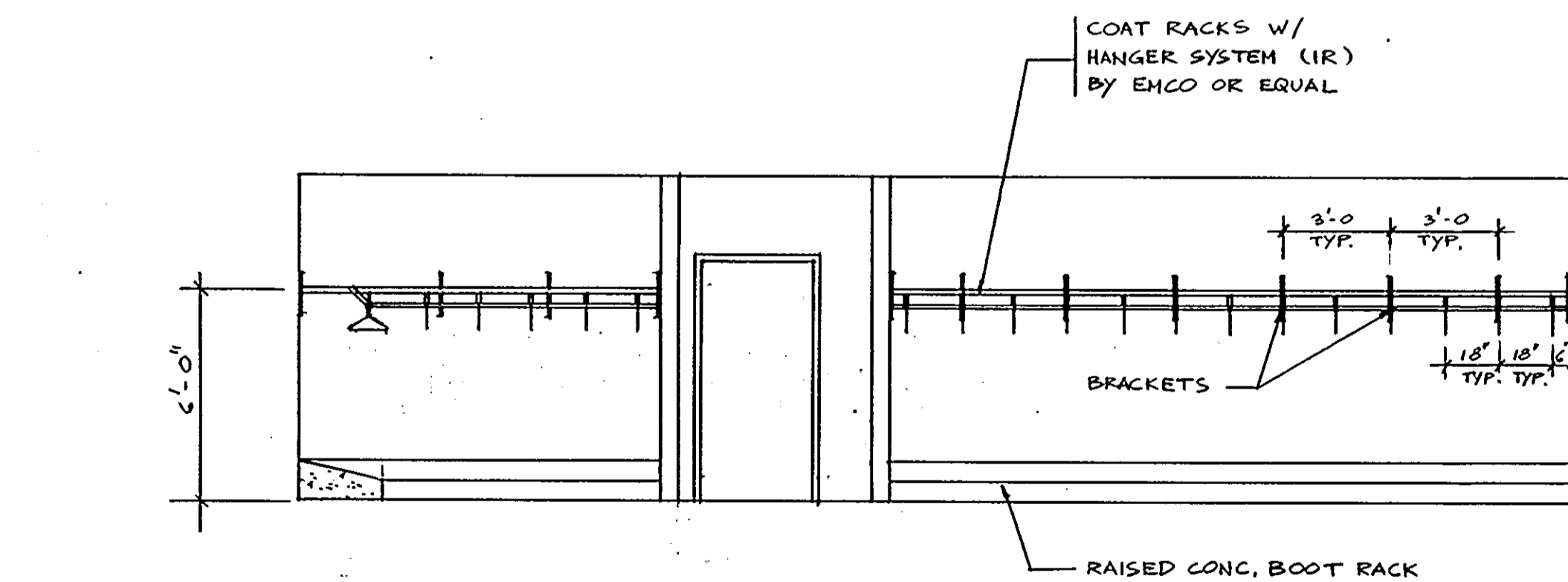
6 ELEVATION
1/4\"/>



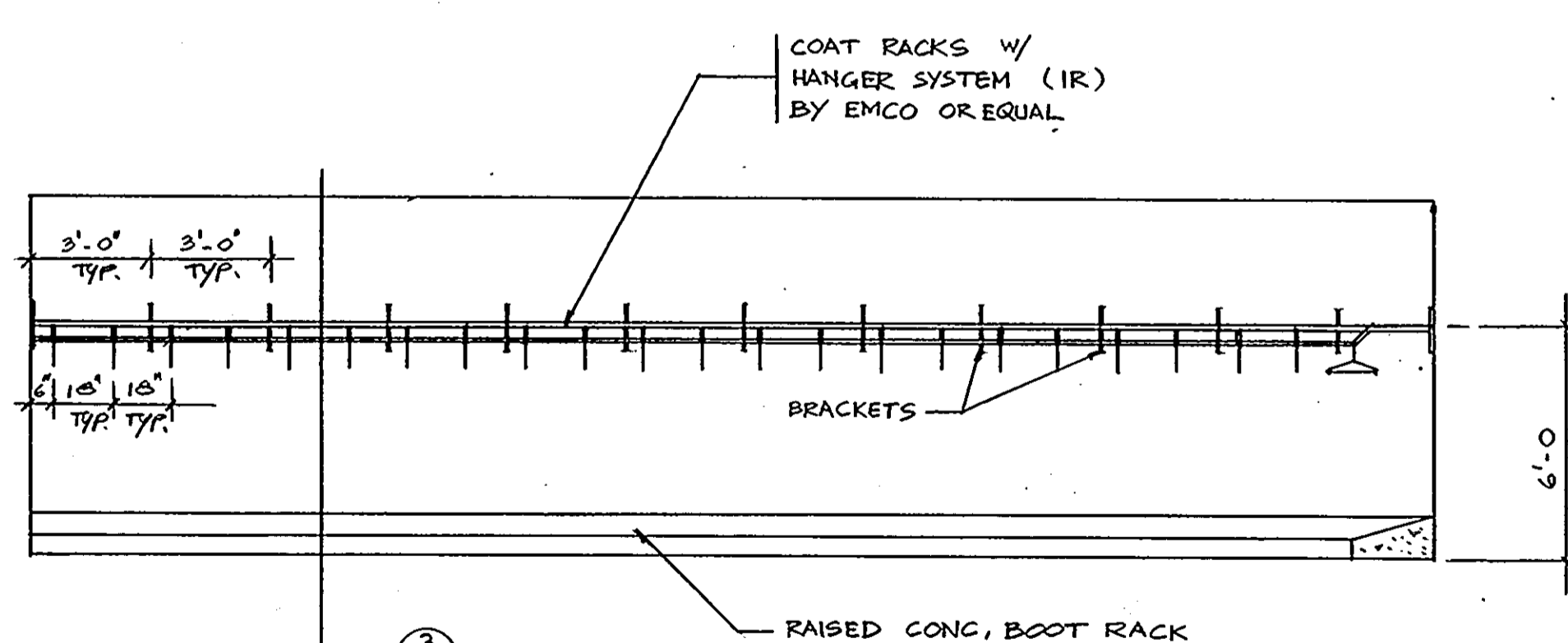
5 SECTION
1/2\"/>



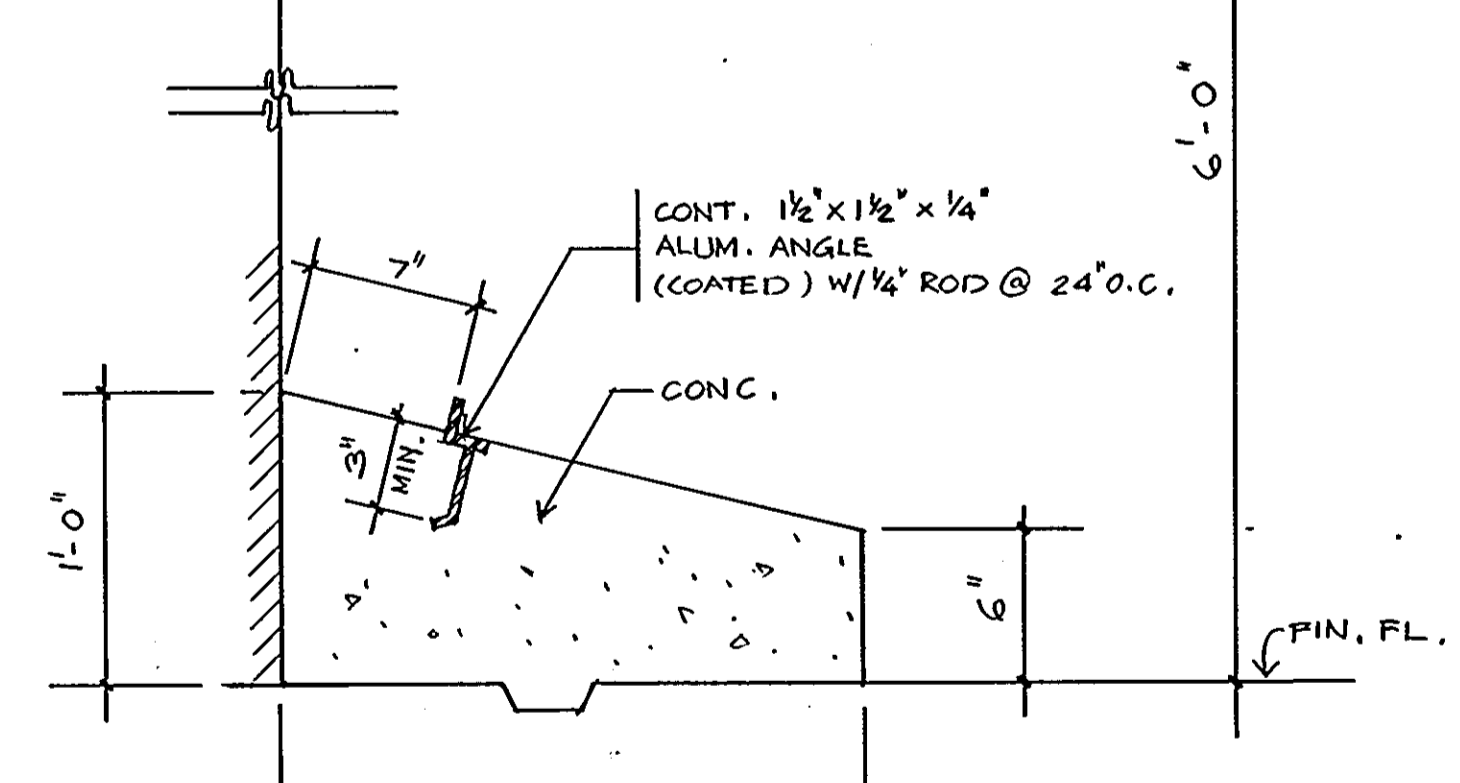
3 SECTION
1/2\"/>

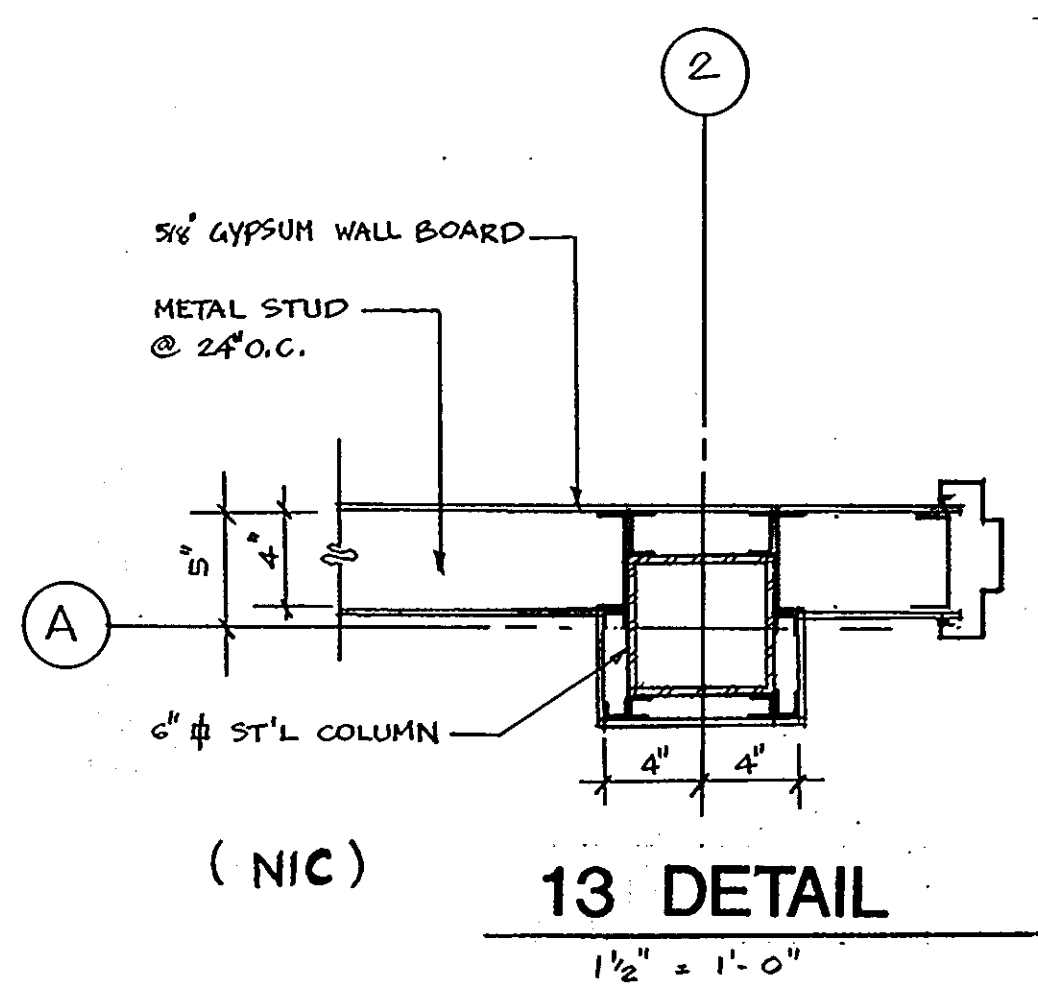


8 ELEVATION
1/4\"/>

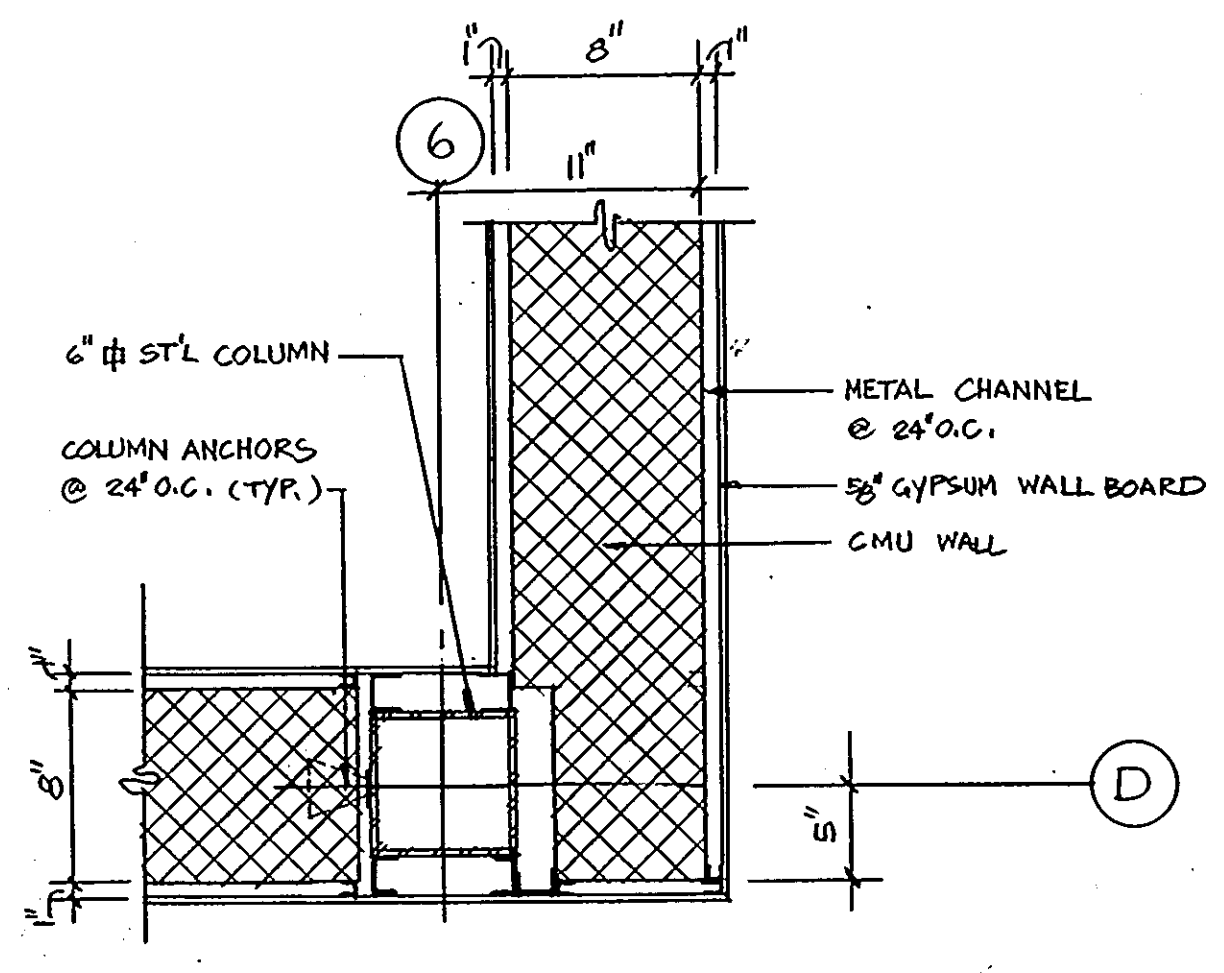


4 ELEVATION
1/2\"/>

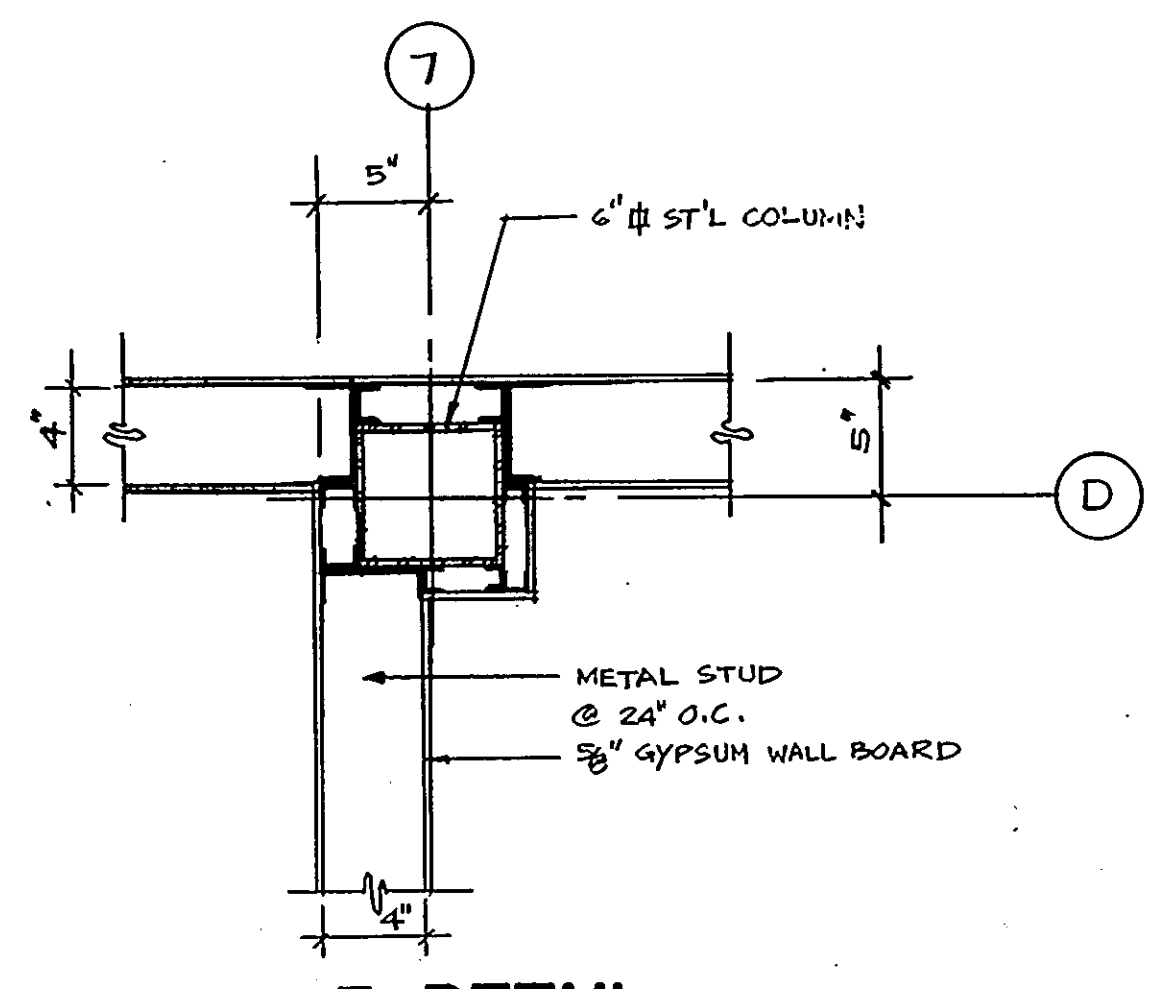




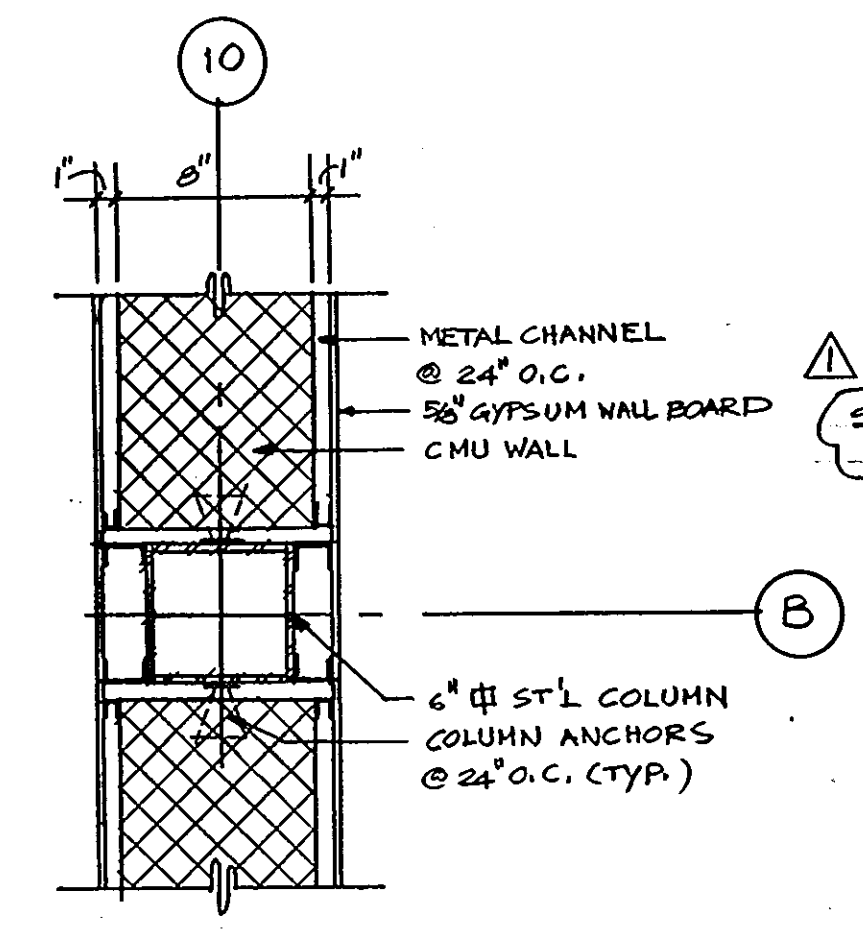
(NIC) 13 DETAIL
1 1/2" = 1'-0"



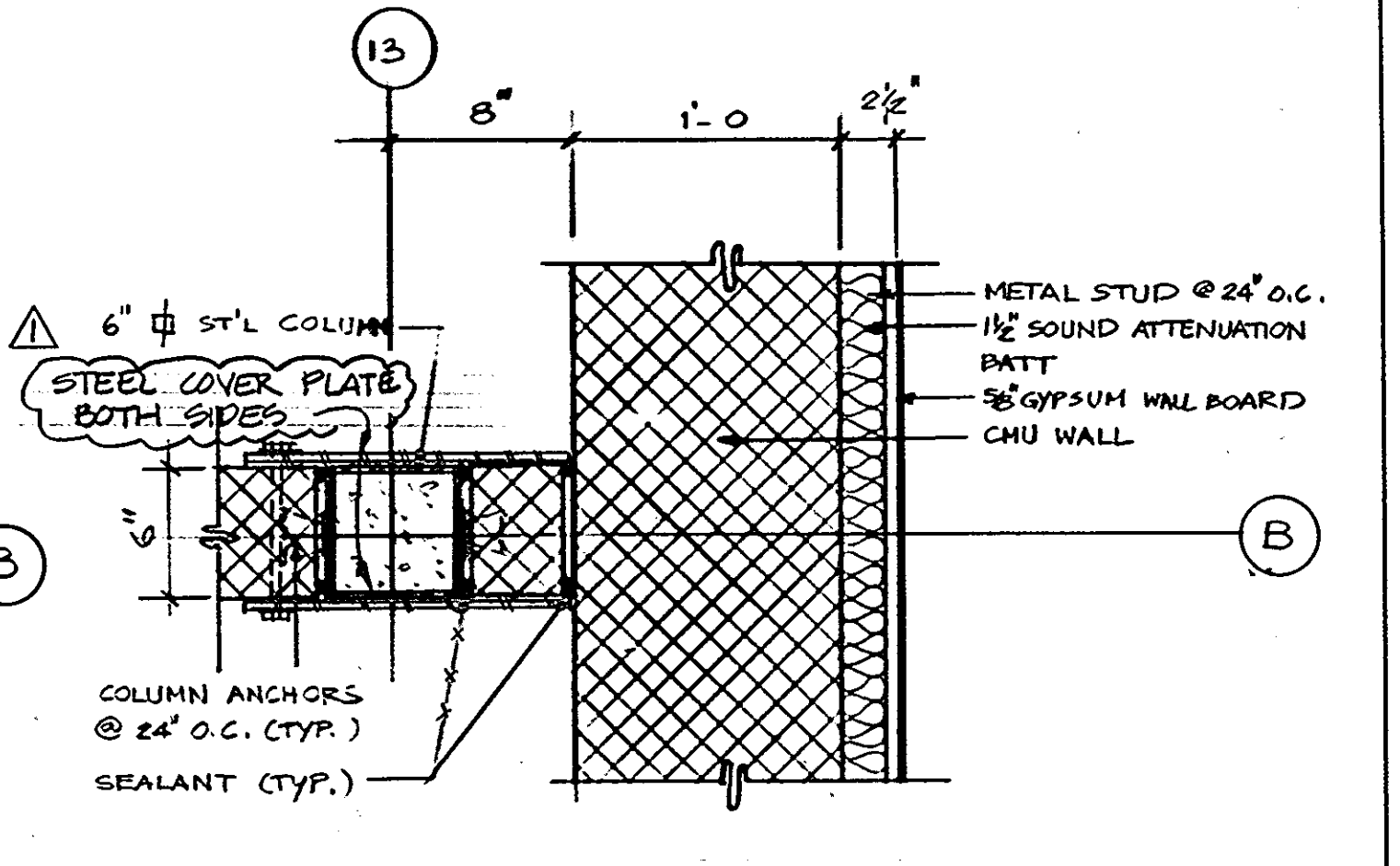
10 DETAIL
1 1/2" = 1'-0"



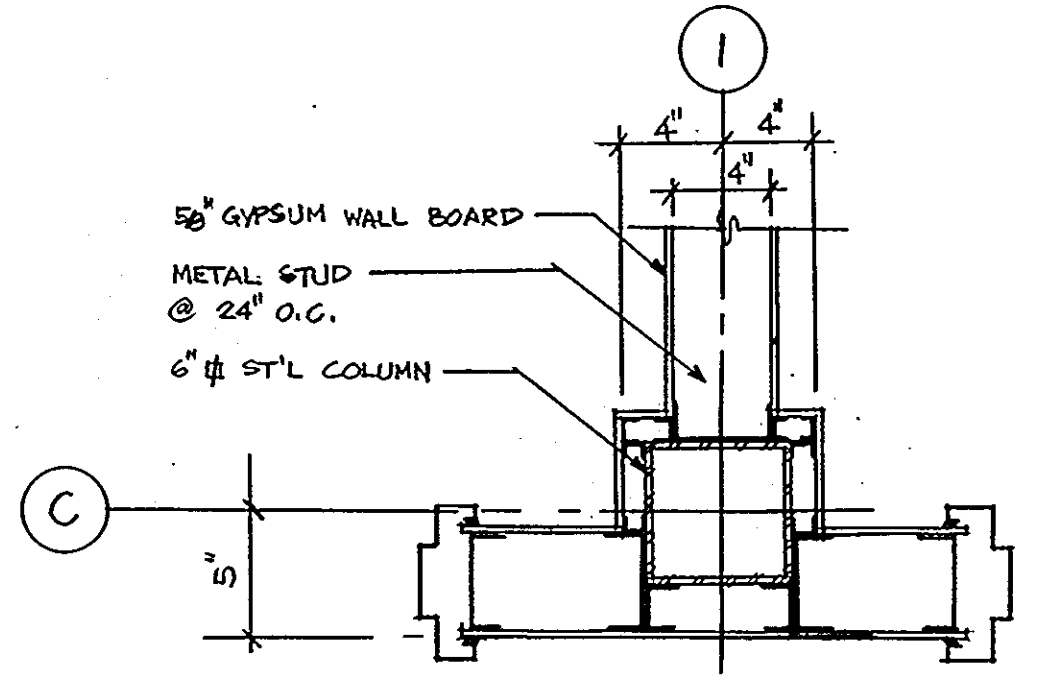
7 DETAIL
1 1/2" = 1'-0"



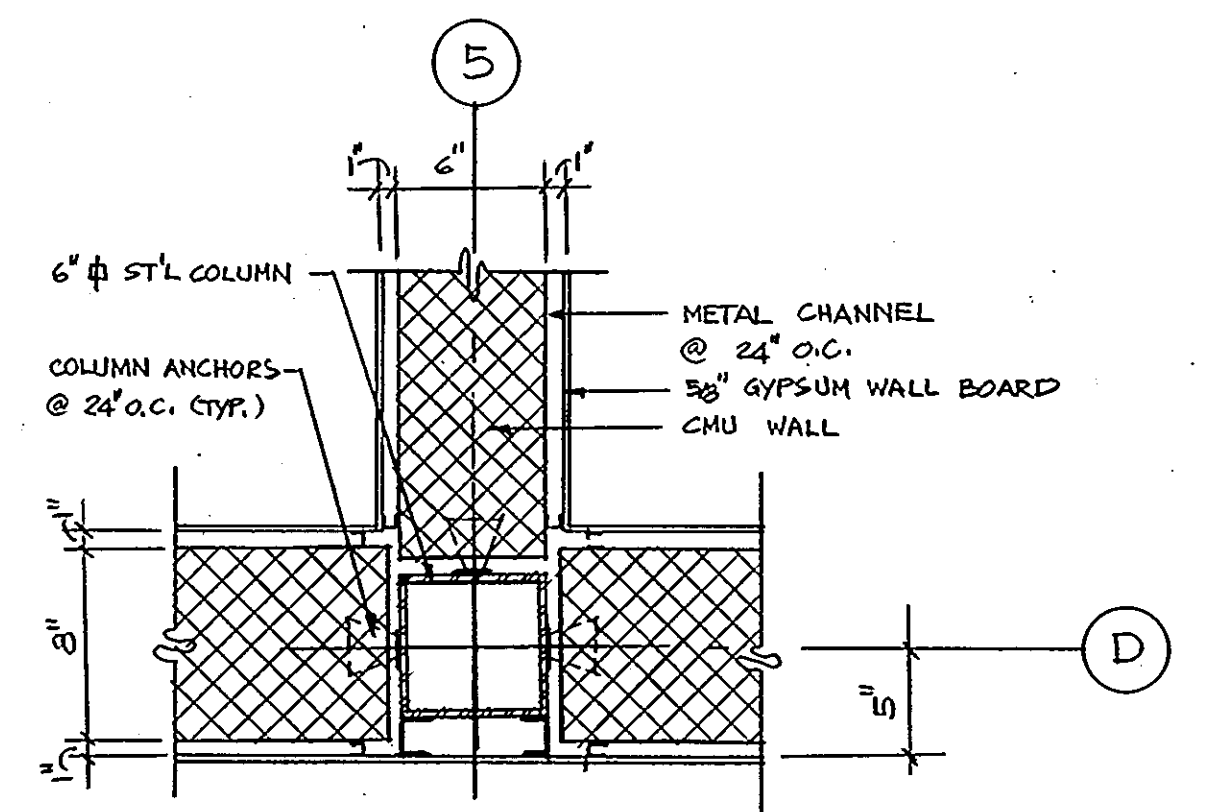
4 DETAIL
1 1/2" = 1'-0"



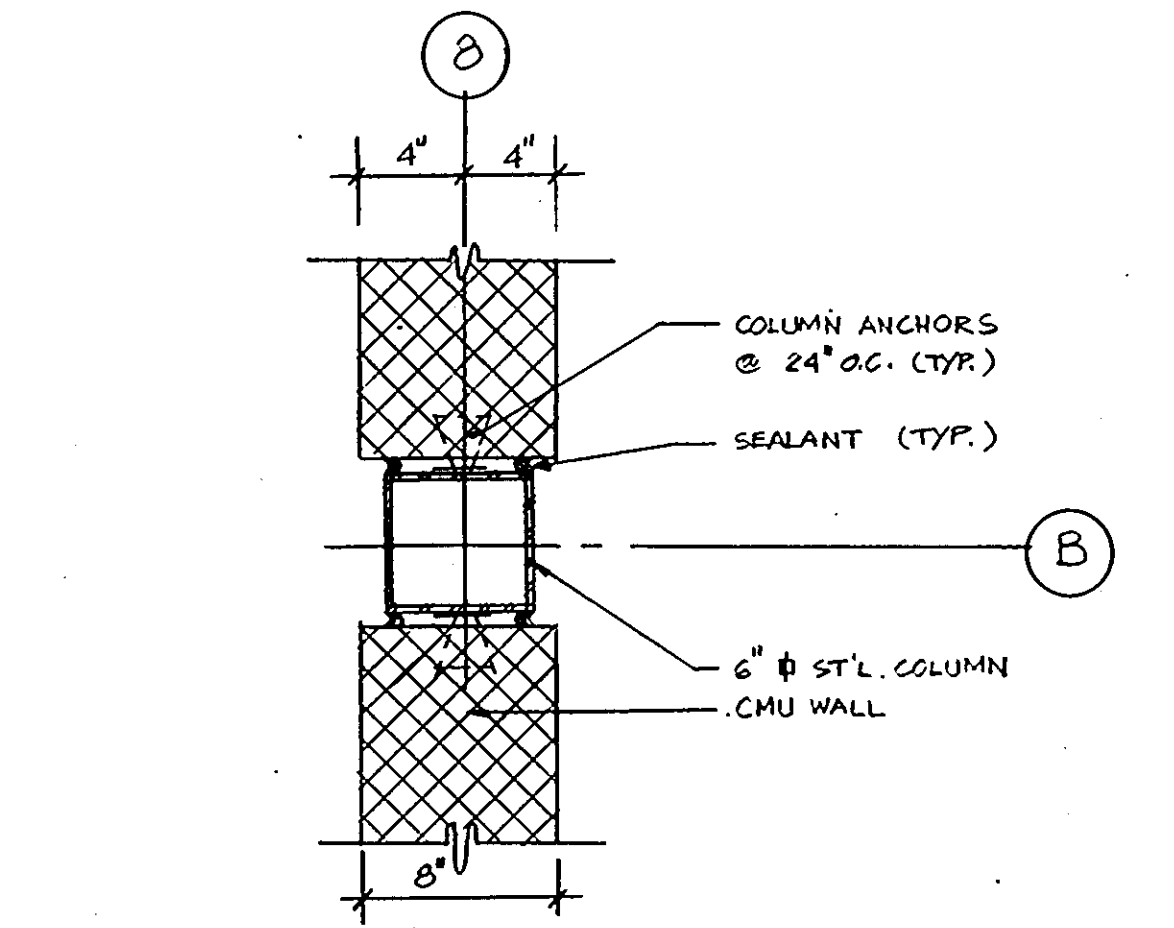
1 DETAIL
1 1/2" = 1'-0"



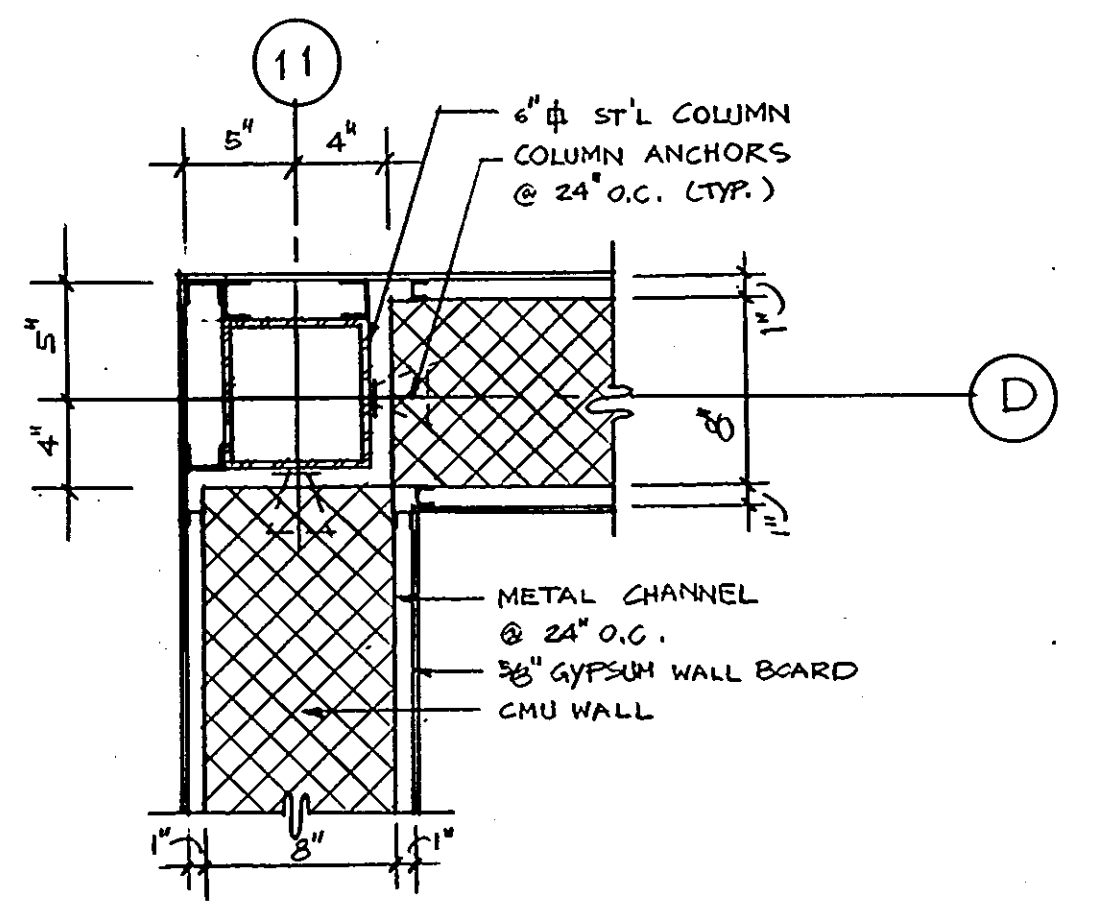
(NIC) 14 DETAIL
1 1/2" = 1'-0"



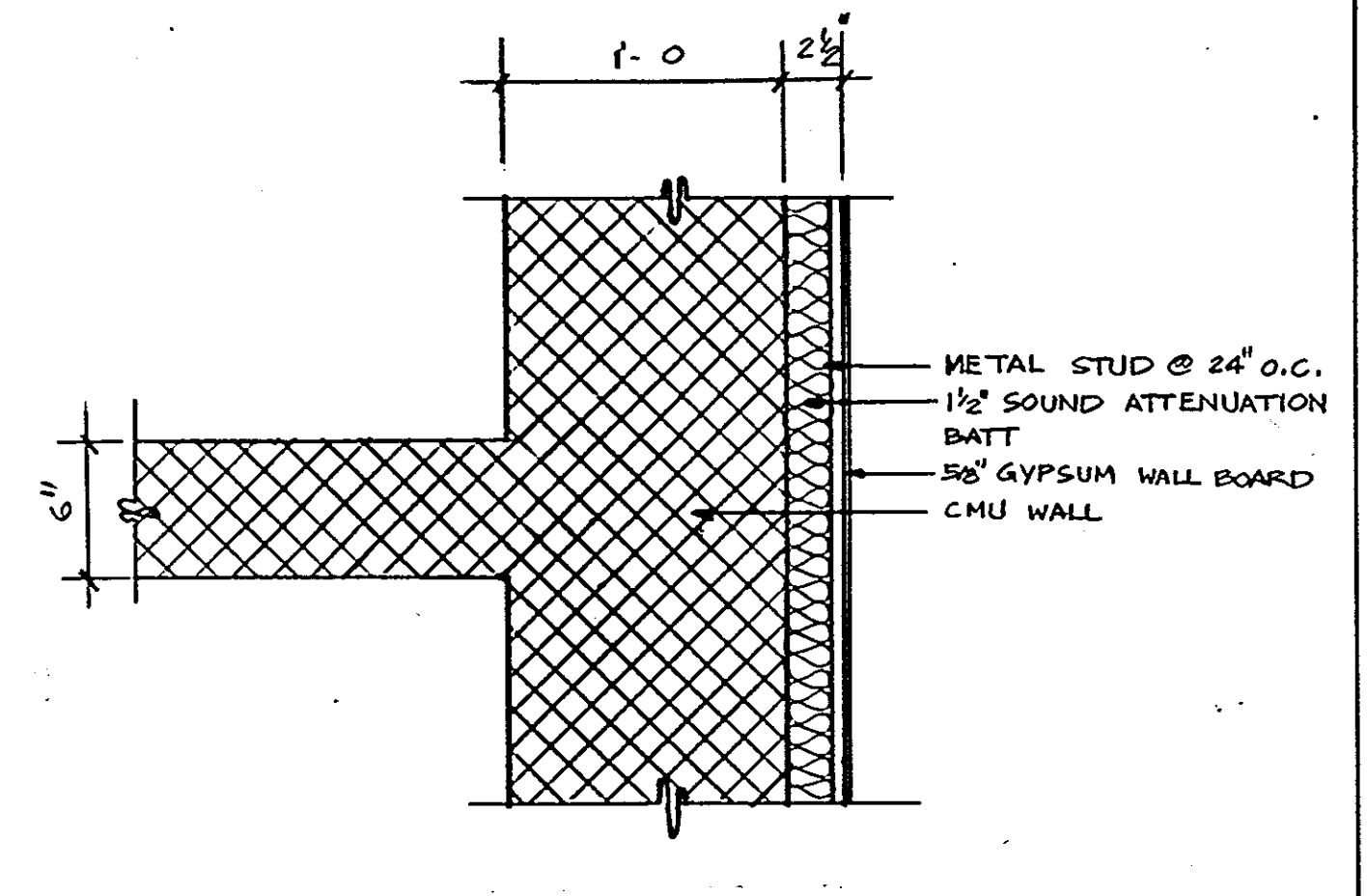
11 DETAIL
1 1/2" = 1'-0"



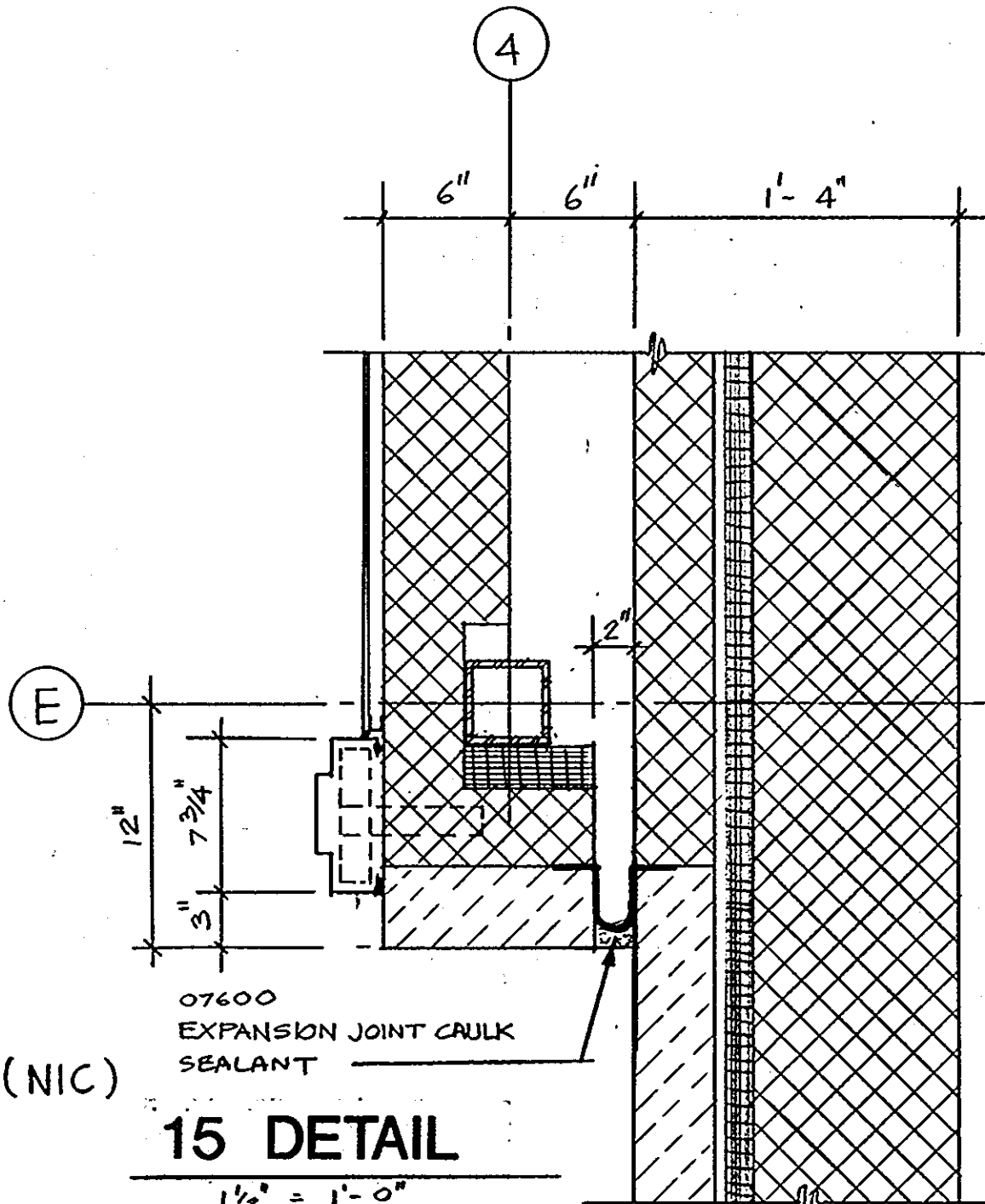
8 DETAIL
1 1/2" = 1'-0"



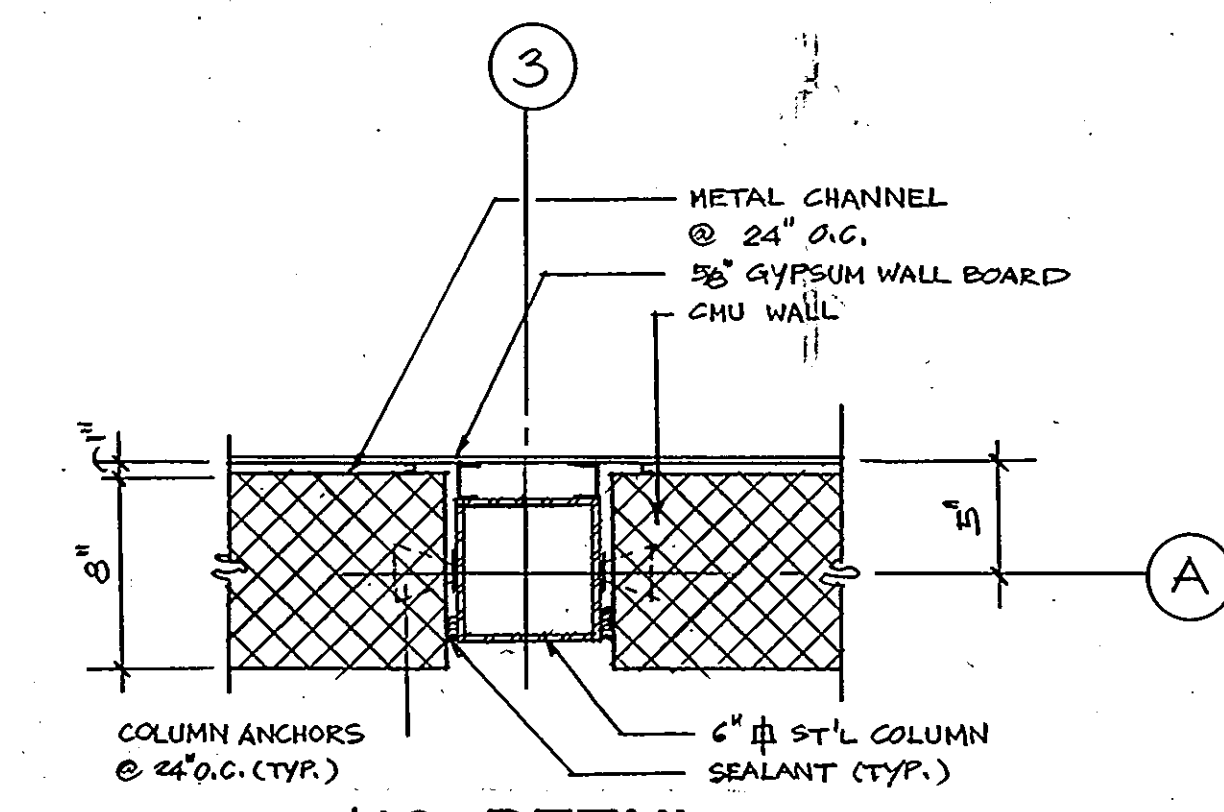
5 DETAIL
1 1/2" = 1'-0"



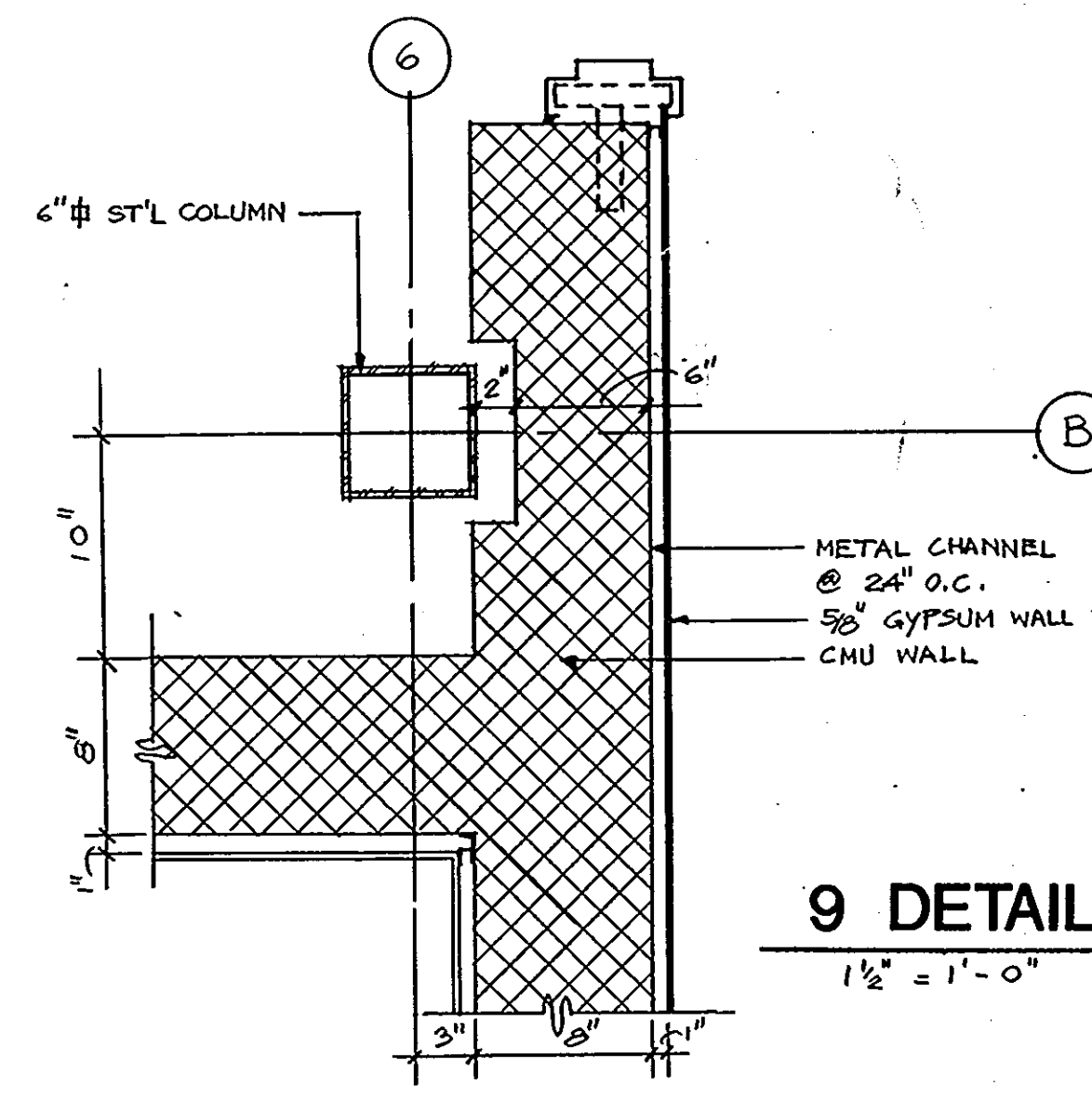
2 DETAIL
1 1/2" = 1'-0"



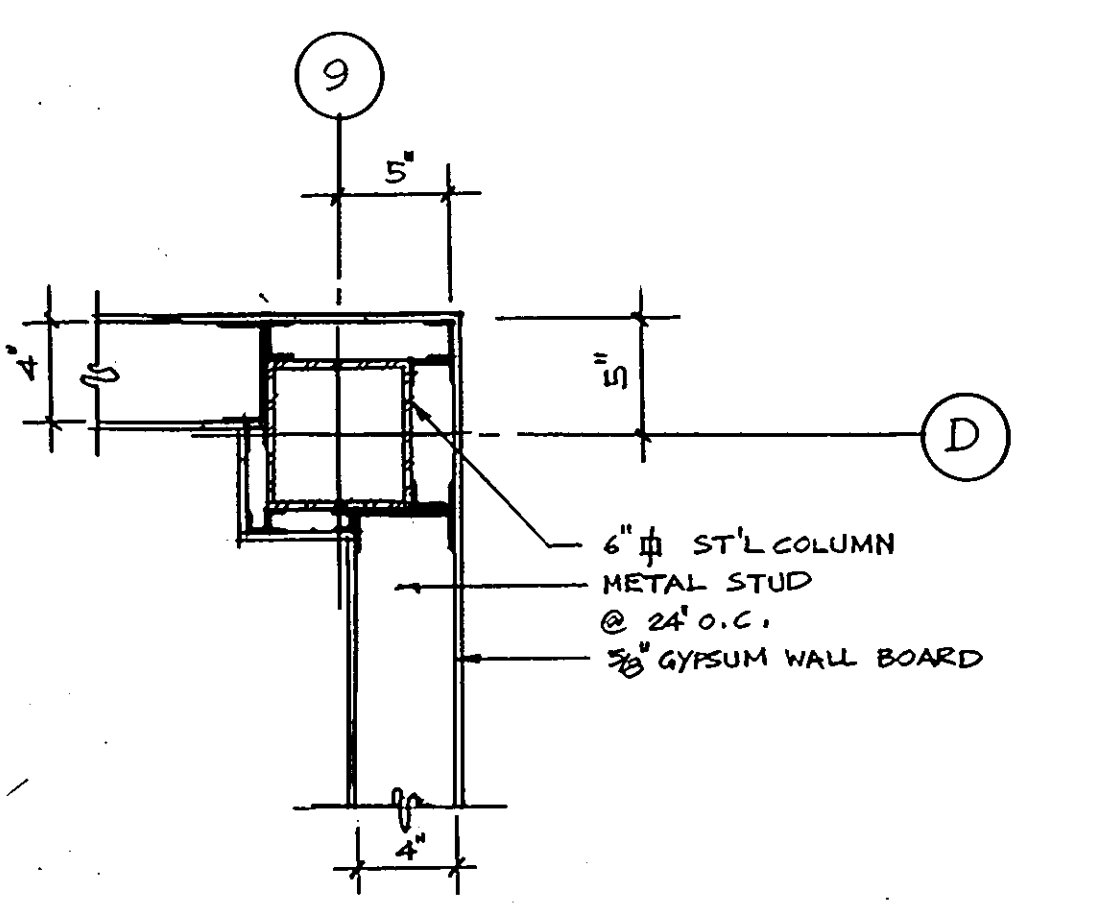
(NIC) 15 DETAIL
1 1/2" = 1'-0"



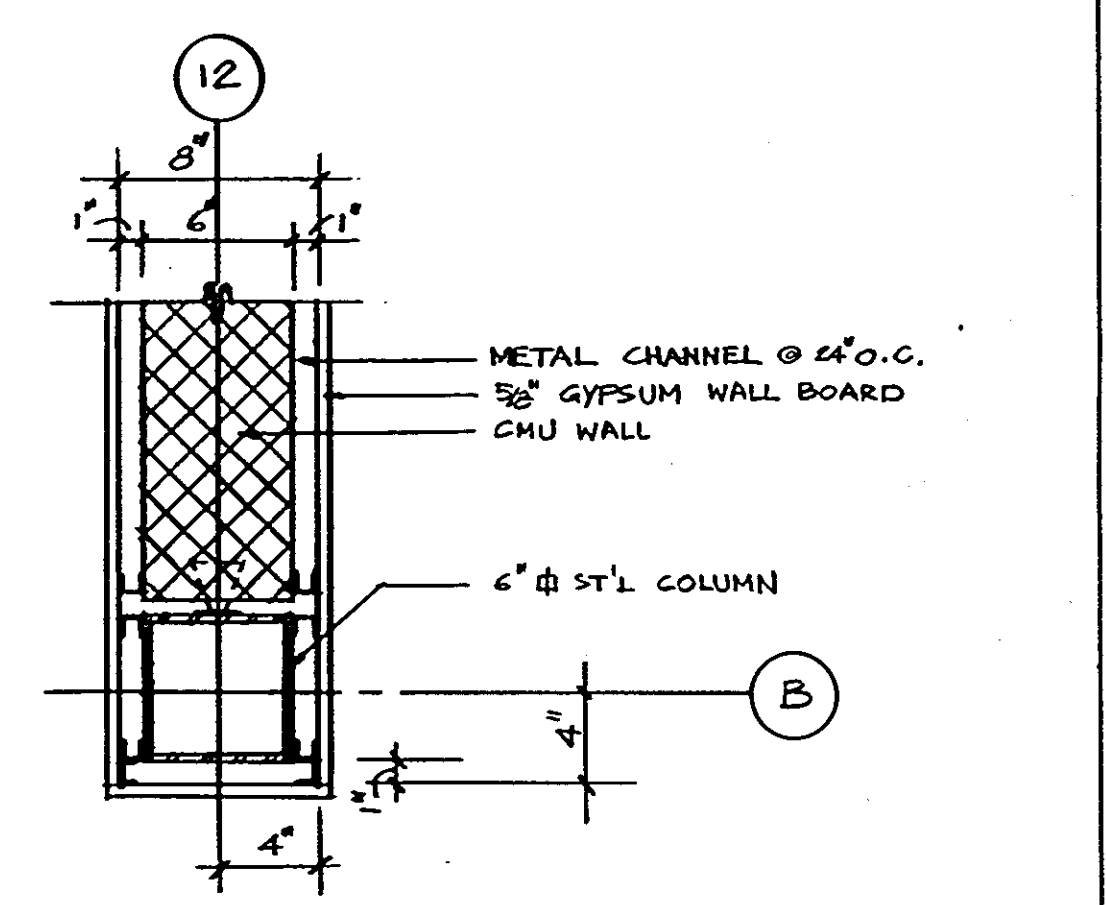
12 DETAIL
1 1/2" = 1'-0"



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



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



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

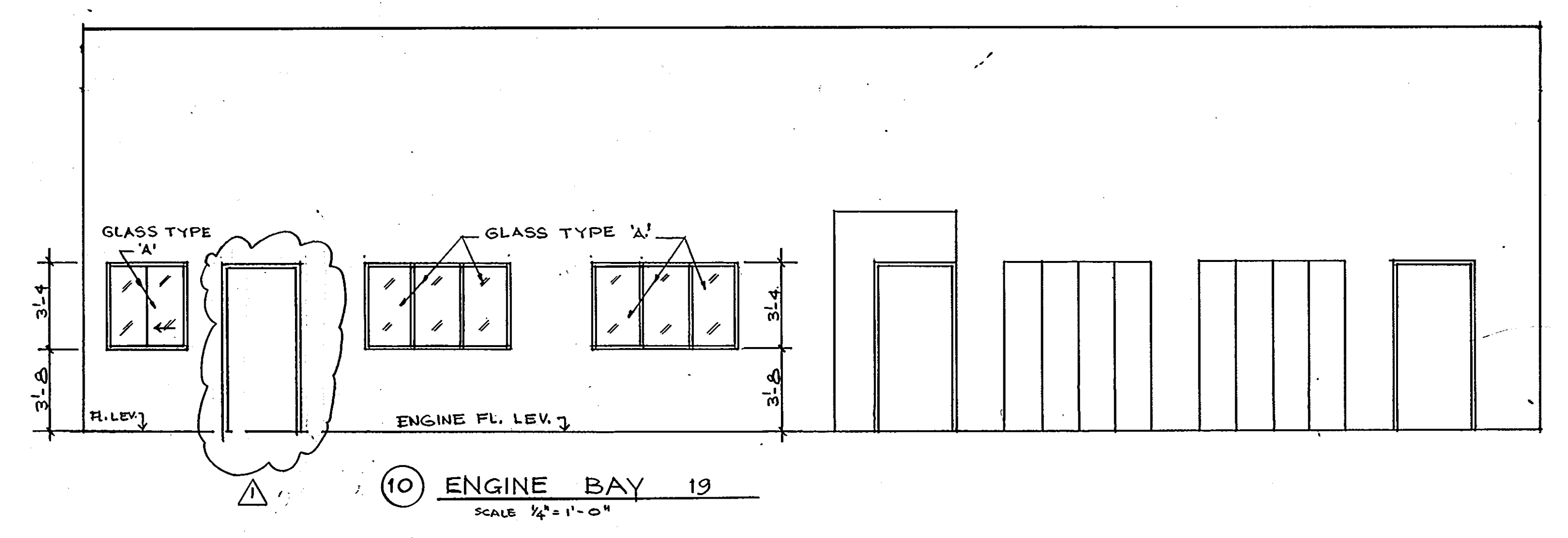
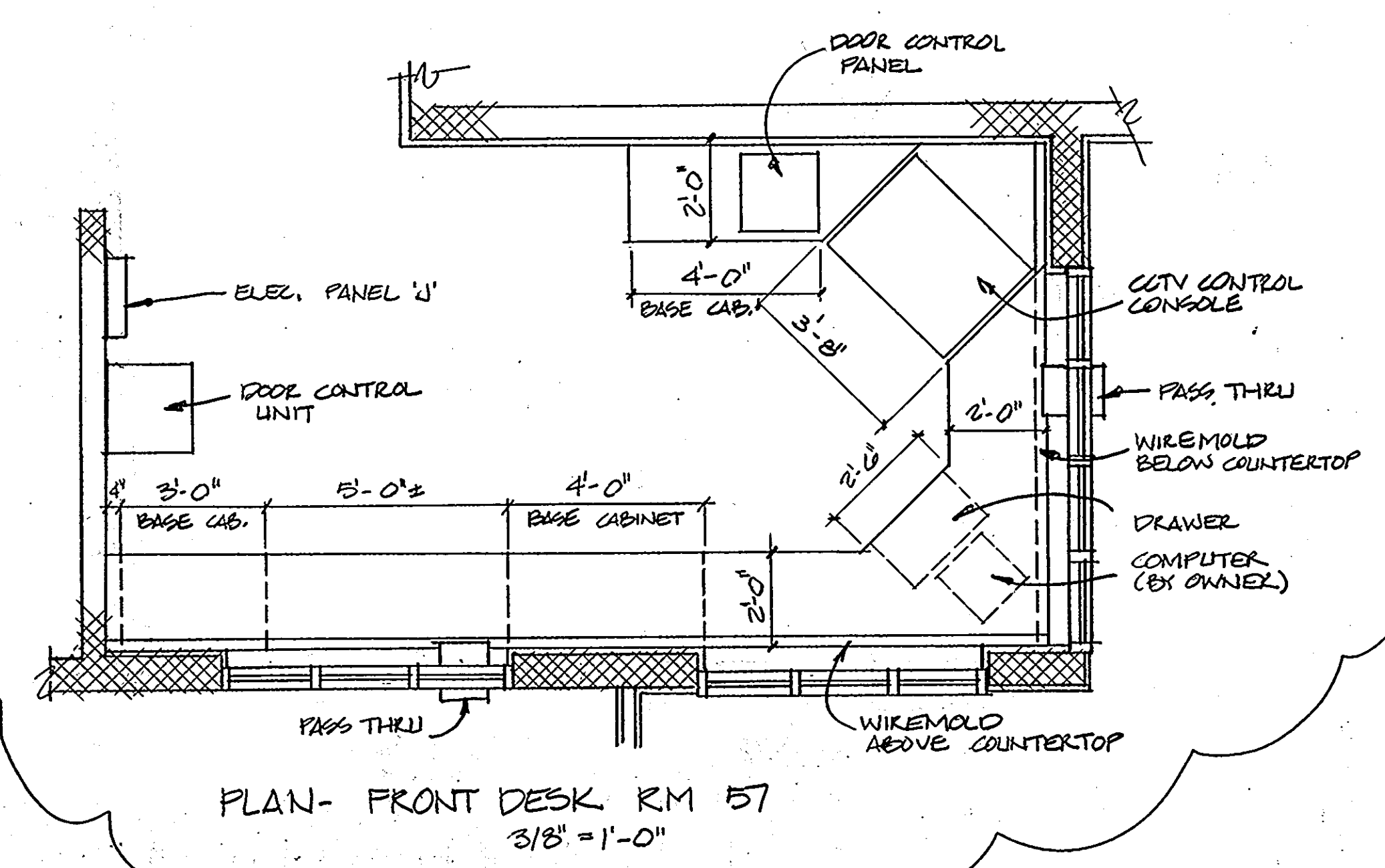
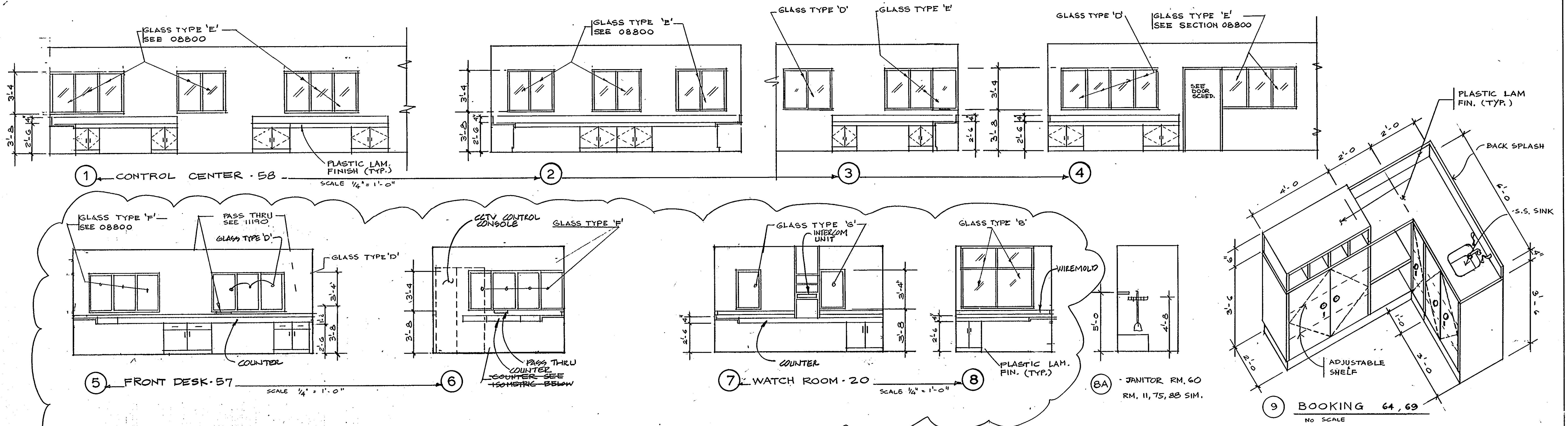
ARCHITECTURAL TECHNOLOGIES INC.
Architects and Construction-Consultants
3192 Red Branch Rd. Suite 300
Columbia MD, 21045 (301) 995-4067

IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING

REGISTERED PROFESSIONAL SEAL
ARCHITECTURAL REGISTRATION NO. 32895-A
STATE OF MARYLAND

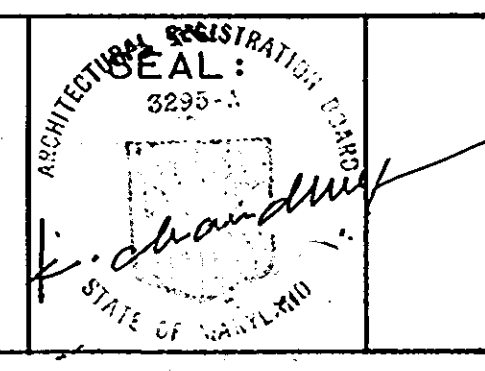
REVISIONS	
AS BUILT	11/24/94

DETAIL PLANS		33 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707		DATE: 3-25-92 DRAWING NO. A 7.4



ARCHITECTURAL TECHNOLOGIES, INC.
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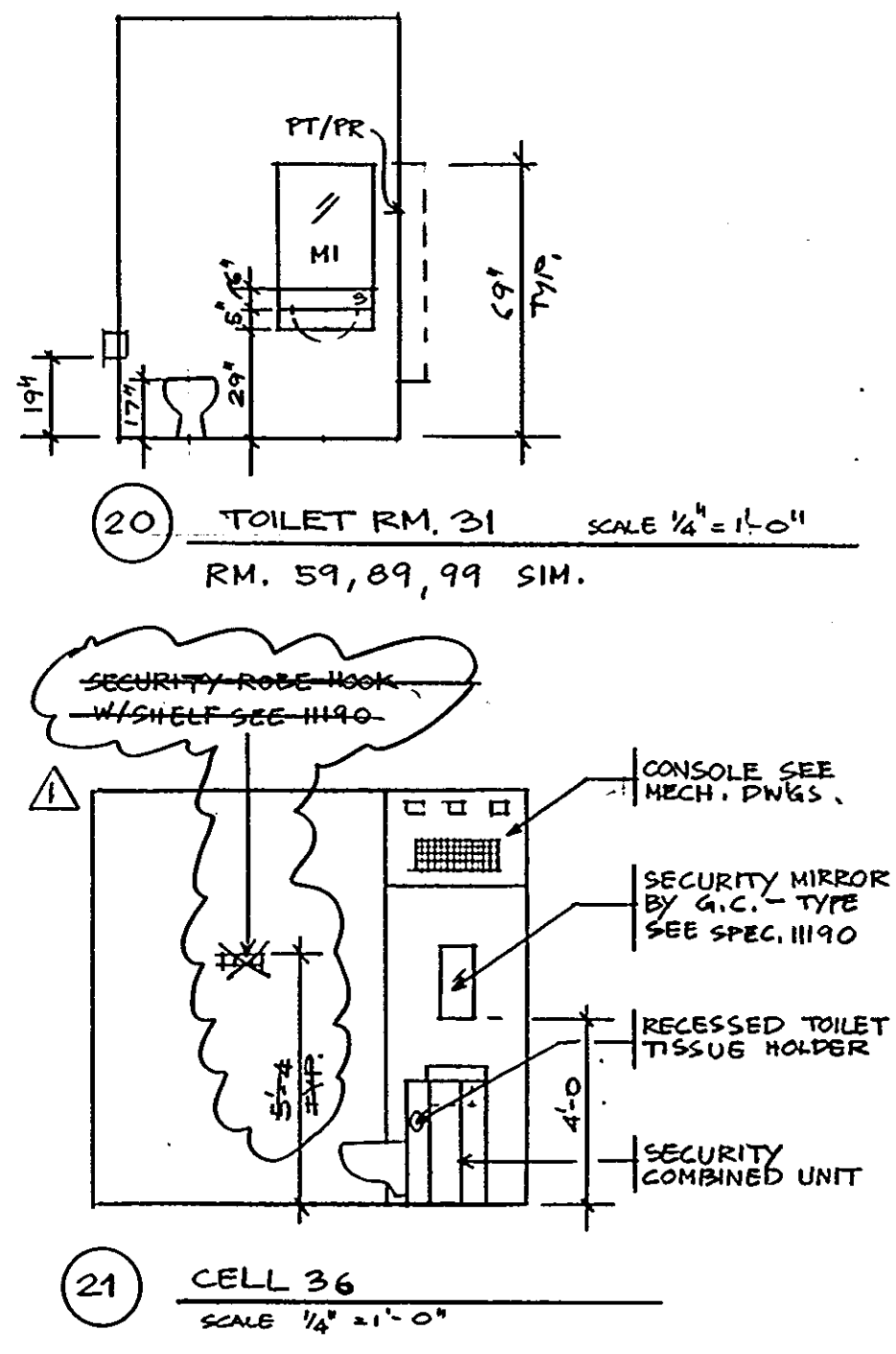
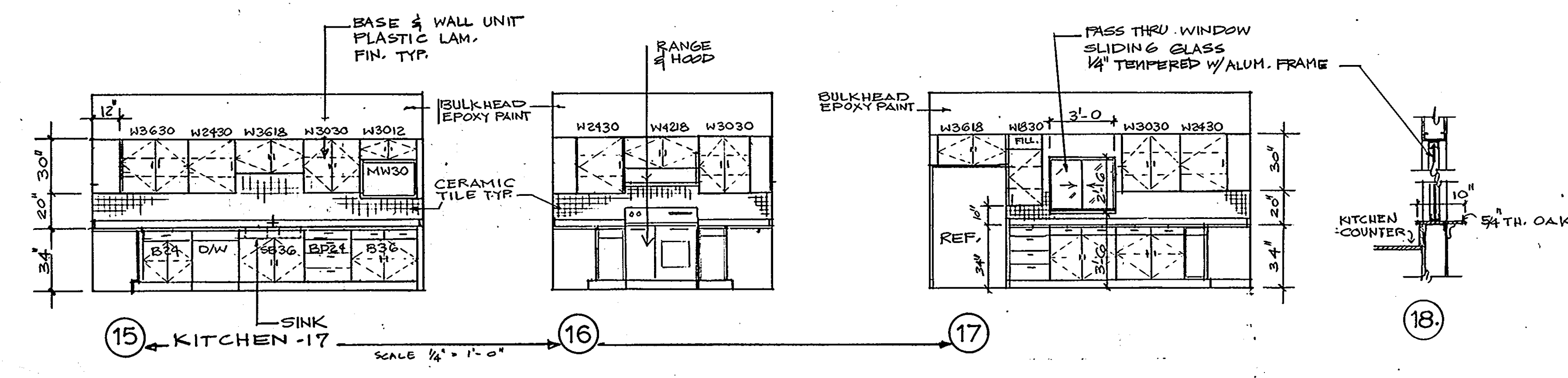
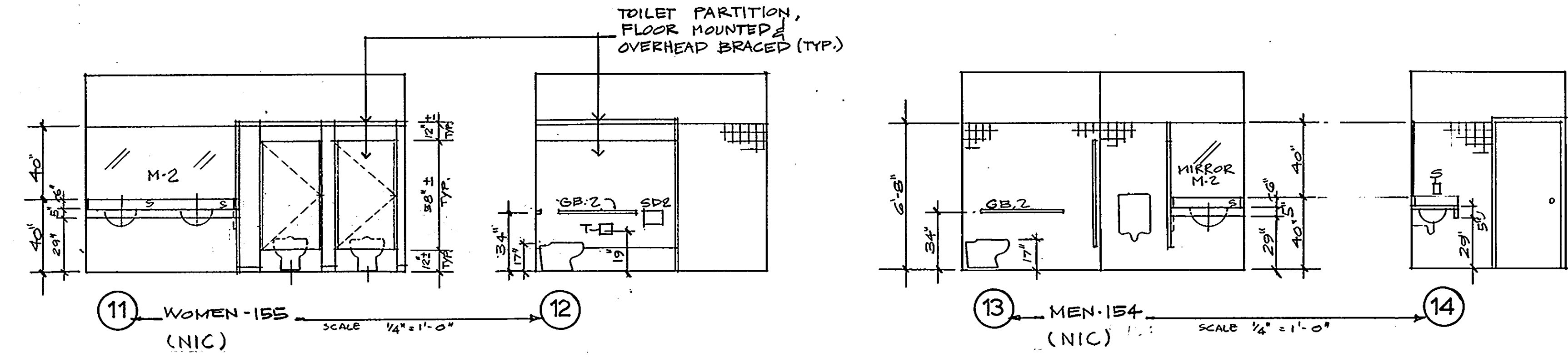
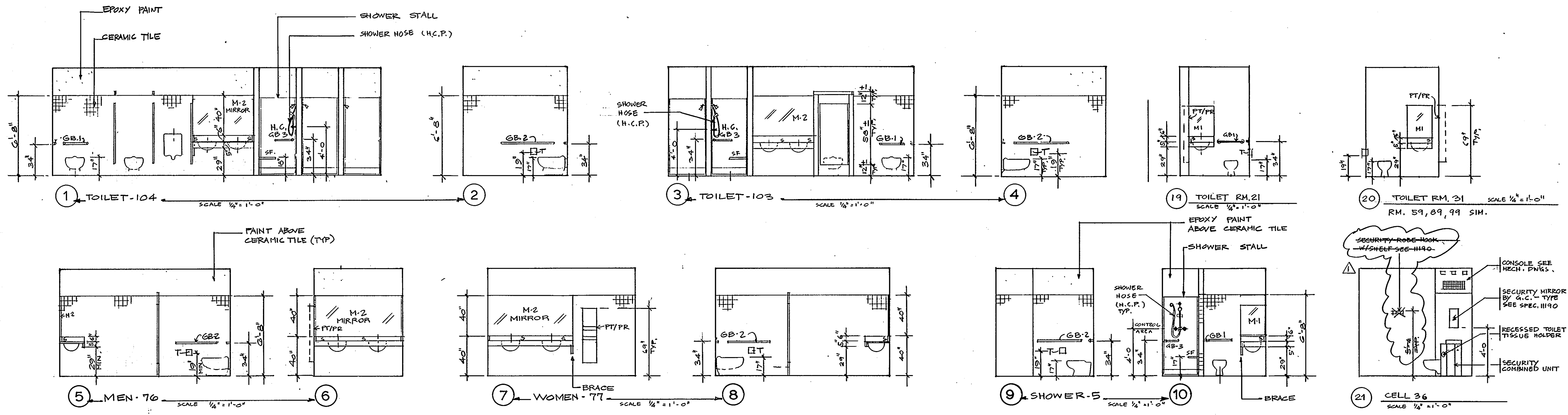
IN ASSOCIATION WITH:
 CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
 STRUCTURAL ENGINEER: GODESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
 FIRE PROTECTION ENGINEER: STANTON ENGINEERING



REVISIONS	
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DETAILS	34 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 1.1226 ROUTE 216 LAUREL, MD. 20707	DATE: 3-25-92 DRAWING NO. A 7.5

1650



TOILET ACCESSORIES (SPECS. 10800)

T: TOILET TISSUE HOLDER,
PT / PR: PAPER TOWEL DISPENSER & WASTE RECEPTACLE

S: SOAP DISPENSER
M: MIRROR
M1: BOBRICK, 24"x30"
M2: FULL SIZE AS SHOWN ON DRWG.

SD1: SANITARY NAPKIN DISPOSAL
SD2:

MR: MOP RACK

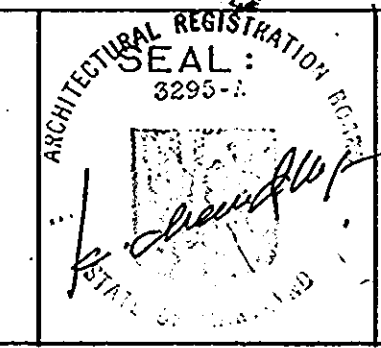
GB: GRAB BAR
GB-1, 36" LONG
GB-2, 42" LONG

NOTE: MOUNTING HEIGHT FOR TOILET ACCESSORIES AT H.C. TOILETS TO MEET H.C. REQUIREMENT

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Columbia MD. 21045 (301) 995-4067

IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING

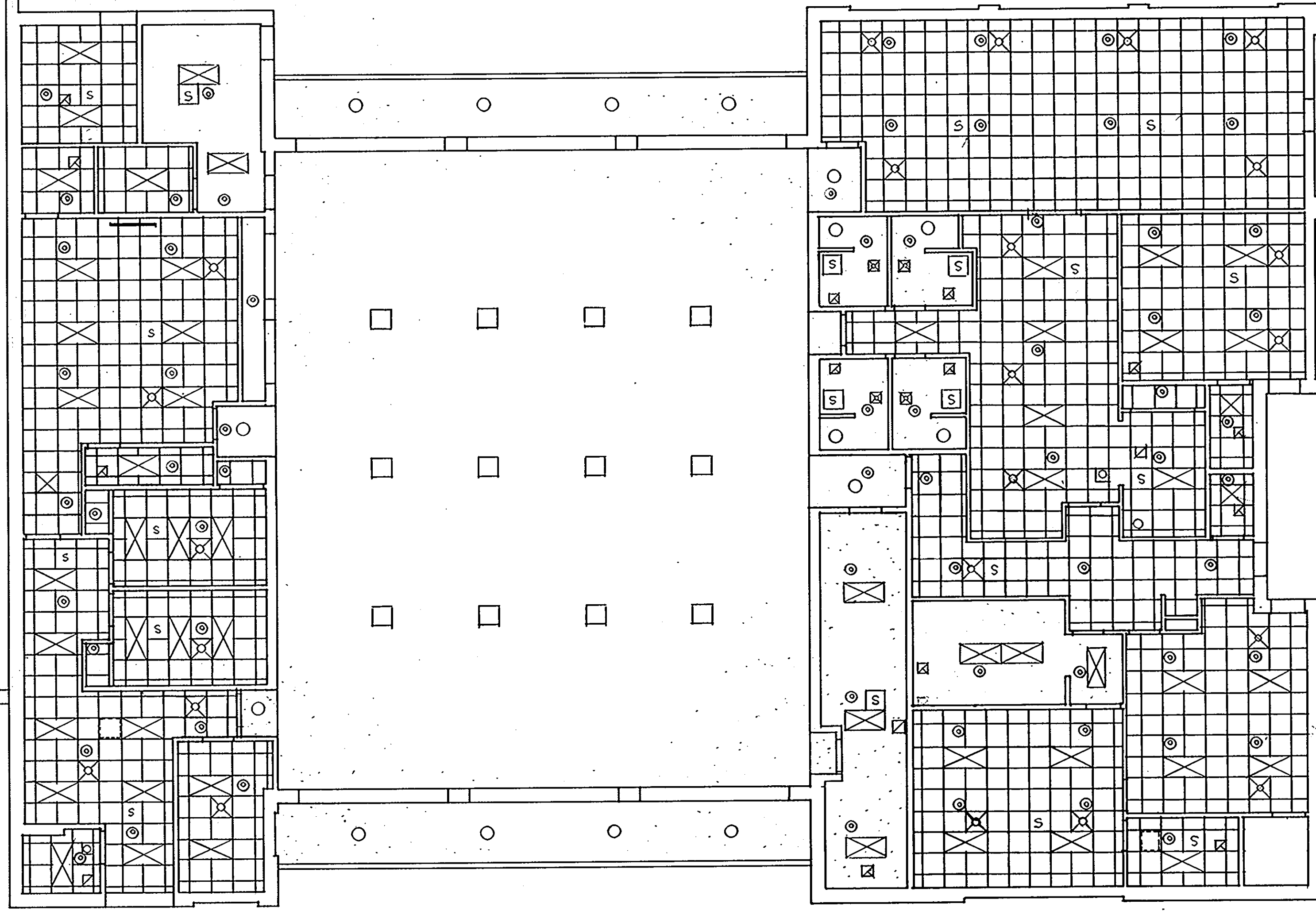


REVISIONS	
AS-BUILT	11/24/92

DETAILS	35 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 3-25-92 DRAWING NO. A 7.6

1650

DISTRICT POLICE STATION FIRE STATION #12



1 REFLECTED CEILING PLAN

1/8" = 1' - 0"

MATCH LINE 1

ARCHITECTURAL TECHNOLOGIES INC.

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9192 Red Branch Rd. Suite 300
Columbia MD. 21045 (301) 995-4067

IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER:

STRUCTURAL ENGINEER:

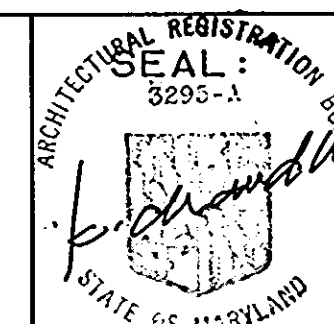
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.

FIRE PROTECTION ENGINEER:

E B A ENGINEERING, INC.

QODESH ENGINEERING SERVICES, INC.

STANTON ENGINEERING



REVISIONS

AS BUILT 11/24/94

REFLECTED CEILING PLAN
FIRE STATION

HOWARD COUNTY
PUBLIC SAFETY COMPLEX

SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD. 20707

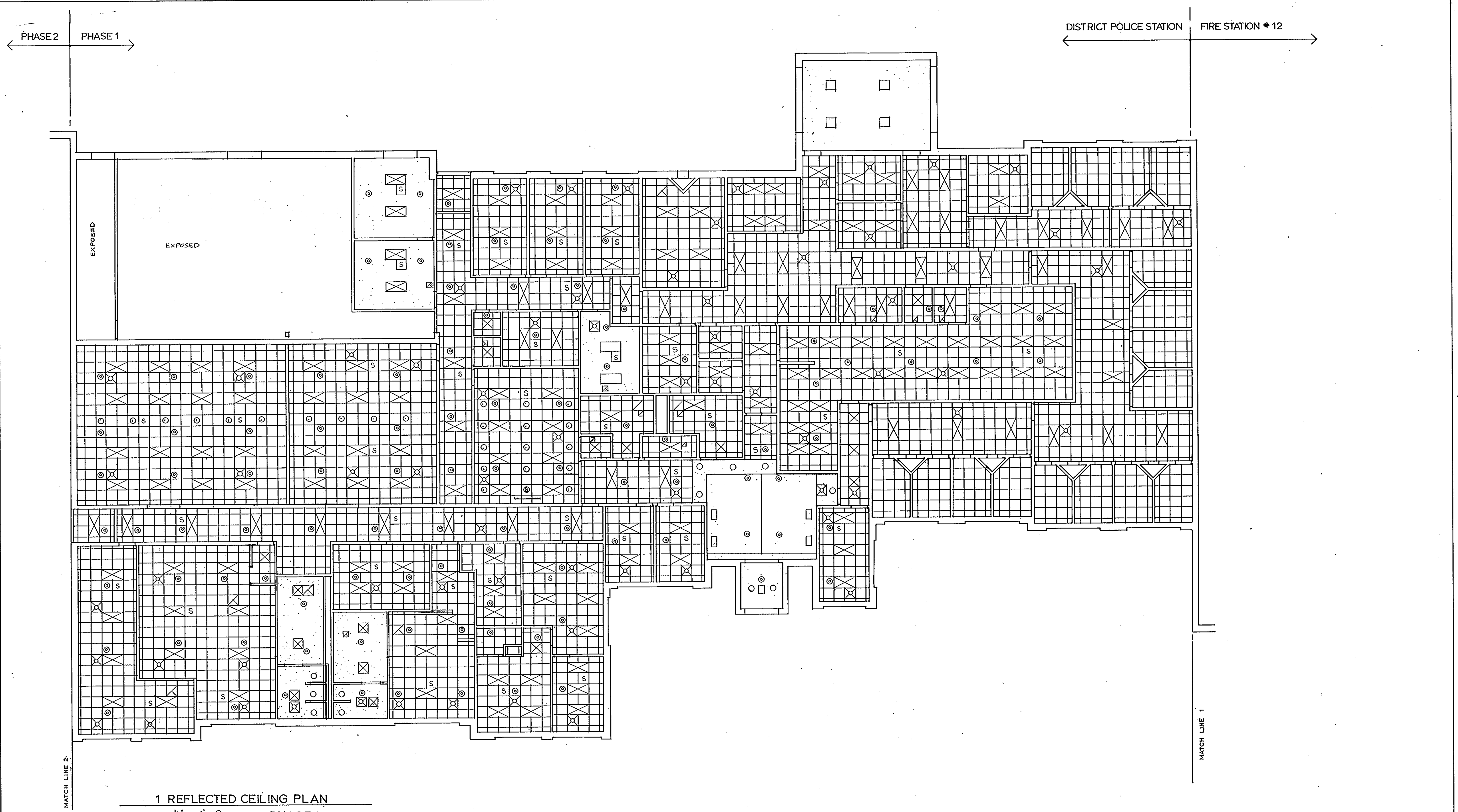
36 OF 90

CAPITAL
PROJECT NO.
C - 0227

DATE: 3-25-92

DRAWING NO.

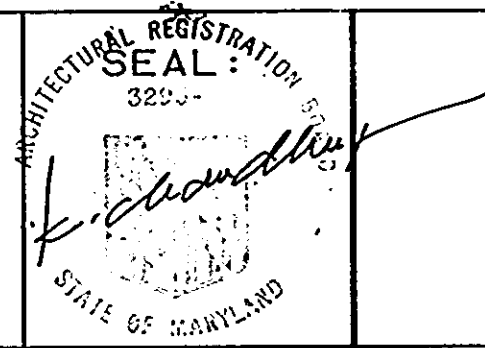
A 8.1



1 REFLECTED CEILING PLAN
 1/8" = 1'-0" PHASE 1

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 STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
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REVISIONS	
AS BUILT	11/24/94

REFLECTED CEILING PLAN POLICE STATION	37 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 3-25-92 DRAWING NO. A 8.2

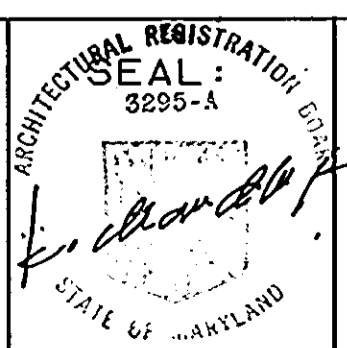
1650

1. DOOR SCHEDULE

Mark	Size W x H x TH.	Material & Construction	Type	Material & Construction	Detail	FIRE REST.		HARDWARE SET
						Label	Hour	
F1	2'-3" x 6'-8"	STOREFRONT ALUM. & GLASS	A	ALUM. & GLASS	GLASS TYPE 'B'			E
F2	3'-0" x 6'-8" x 1-3/4"	SOLID CORE WOOD	E	HOLLOW METAL 16 GA				
F3			D		GLASS TYPE 'G'			
F4		HOLLOW METAL - 16 GA	D					
F5	OPENING SIZE: 4'-0" x 6'-10"	SOLID CORE WOOD	H	METAL				
F6	3'-0" x 6'-8" x 1-3/4"	SOLID CORE WOOD	D	HOLLOW METAL 16 GA	GLASS TYPE 'G'			
F7			D					
F8	OPENING SIZE: 4'-0" x 6'-10"	SOLID CORE WOOD (BIFOLD DOOR)	H	METAL				
F9			H					08710
F10	3'-0" x 6'-8" x 1-3/4"	SOLID CORE WOOD	G	HOLLOW METAL - 16 GA	GLASS TYPE 'G'			
F11		SOLID CORE WOOD	E					
F12		HOLLOW METAL 16 GA	D	HOLLOW METAL - 16 GA	GLASS TYPE 'C'			
F13	OPENING SIZE 6'-0" x 7'-0"	HOLLOW METAL - 18 GA. BIFOLD DOORS	H	METAL				
F14			H					
F15	3'-0" x 6'-8" x 1-3/4"	HOLLOW METAL - 18 GA.	F	HOLLOW METAL - 16 GA				
F16		SOLID CORE WOOD	F					
F17		HOLLOW METAL - 16 GA.	C		GLASS TYPE 'B'			
F18			C					
F19			D		GLASS TYPE 'C'			
F20	OPENING SIZE 14'-0" x 14'-0"	INSULATED STEEL OVERHEAD DOOR	J	OVERHEAD DOOR FRAME				E
F21								E
F22								E
F23								E
F24								E
F25								E
F26	3'-0" x 6'-8" x 1-3/4"	HOLLOW METAL - 16 GA.	F	HOLLOW METAL - 16 GA.				
F27			F					
F28			D		GLASS TYPE 'G'			
F29		SOLID CORE WOOD	G					
F30			G		GLASS TYPE 'G'			
F31			E					
F32			G		GLASS TYPE 'G'			
F33			G					
F34			F					1/3
F35	3'-0" x 6'-8" x 1-3/4"	HOLLOW METAL - 16 GA.	C		GLASS TYPE 'B'			

NOTE:
E = DOOR REQUIRES ELECTRIC CONNECTIONS
FOR GLASS TYPE, SEE SECTION 08800

IN ASSOCIATION WITH:
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STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING



REVISIONS

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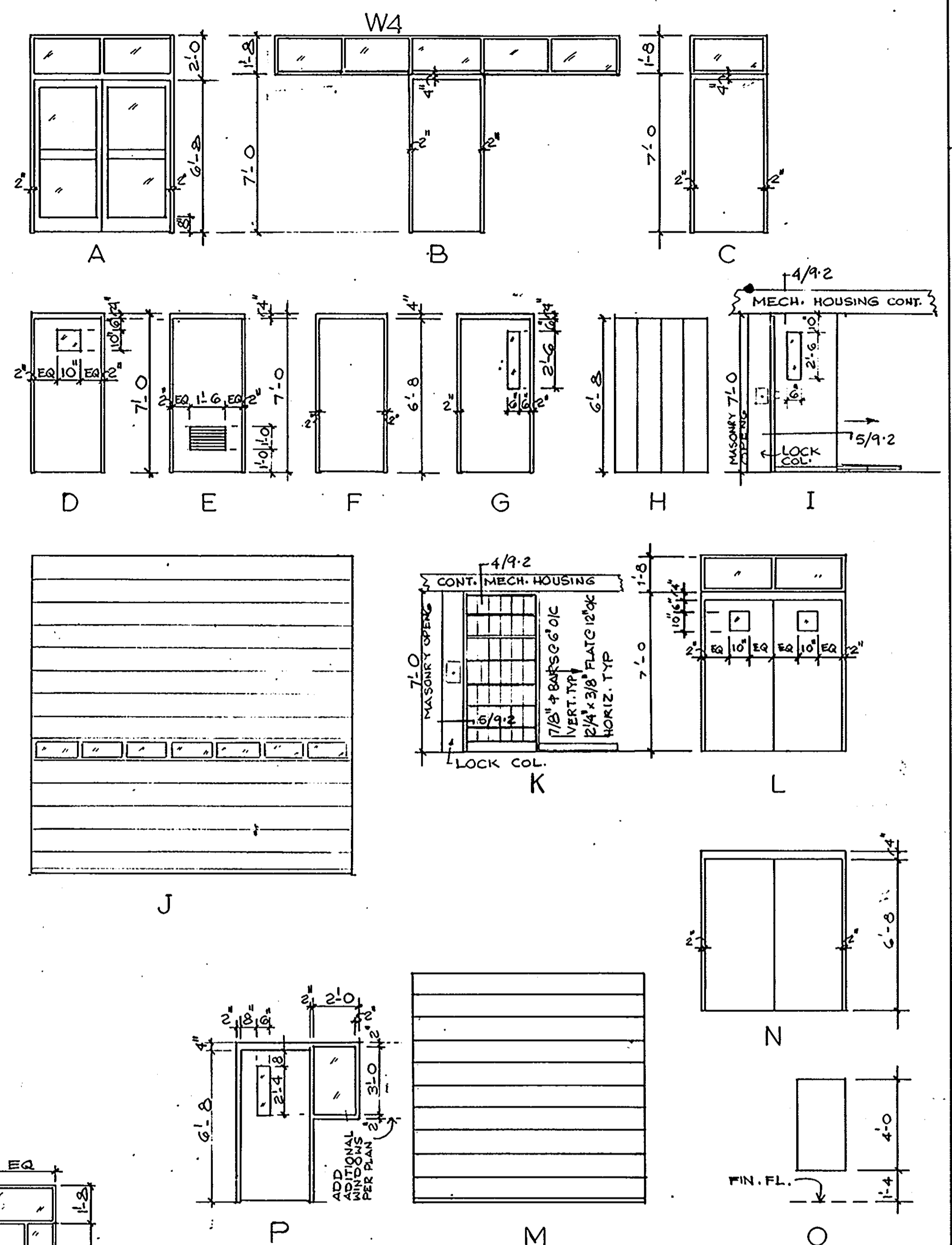
DOOR SCHEDULE/DETAILS WINDOW

HOWARD COUNTY
PUBLIC SAFETY COMPLEX
SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD. 20707

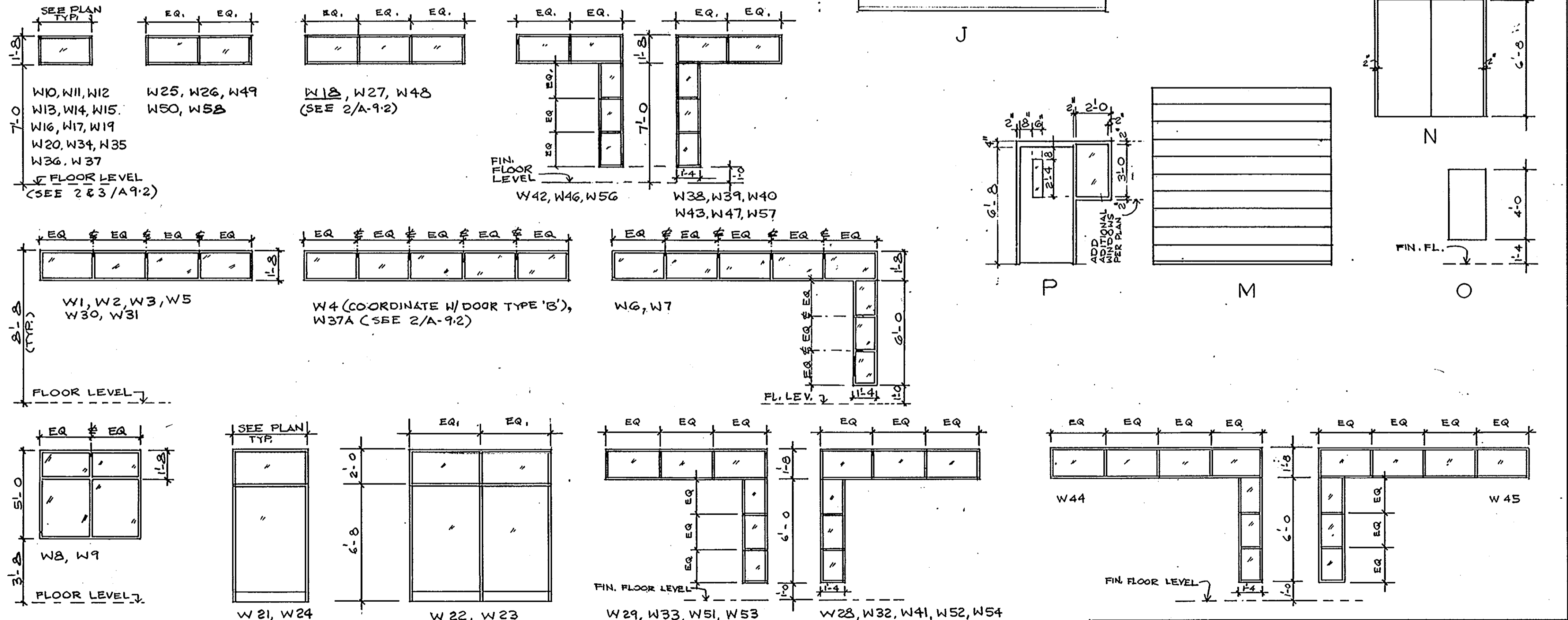
38 OF 90

CAPITAL PROJECT NO.
C - 0227
DATE: 3-25-92
DRAWING NO.
A 9.1

2. DOOR TYPES



3 WINDOW TYPES



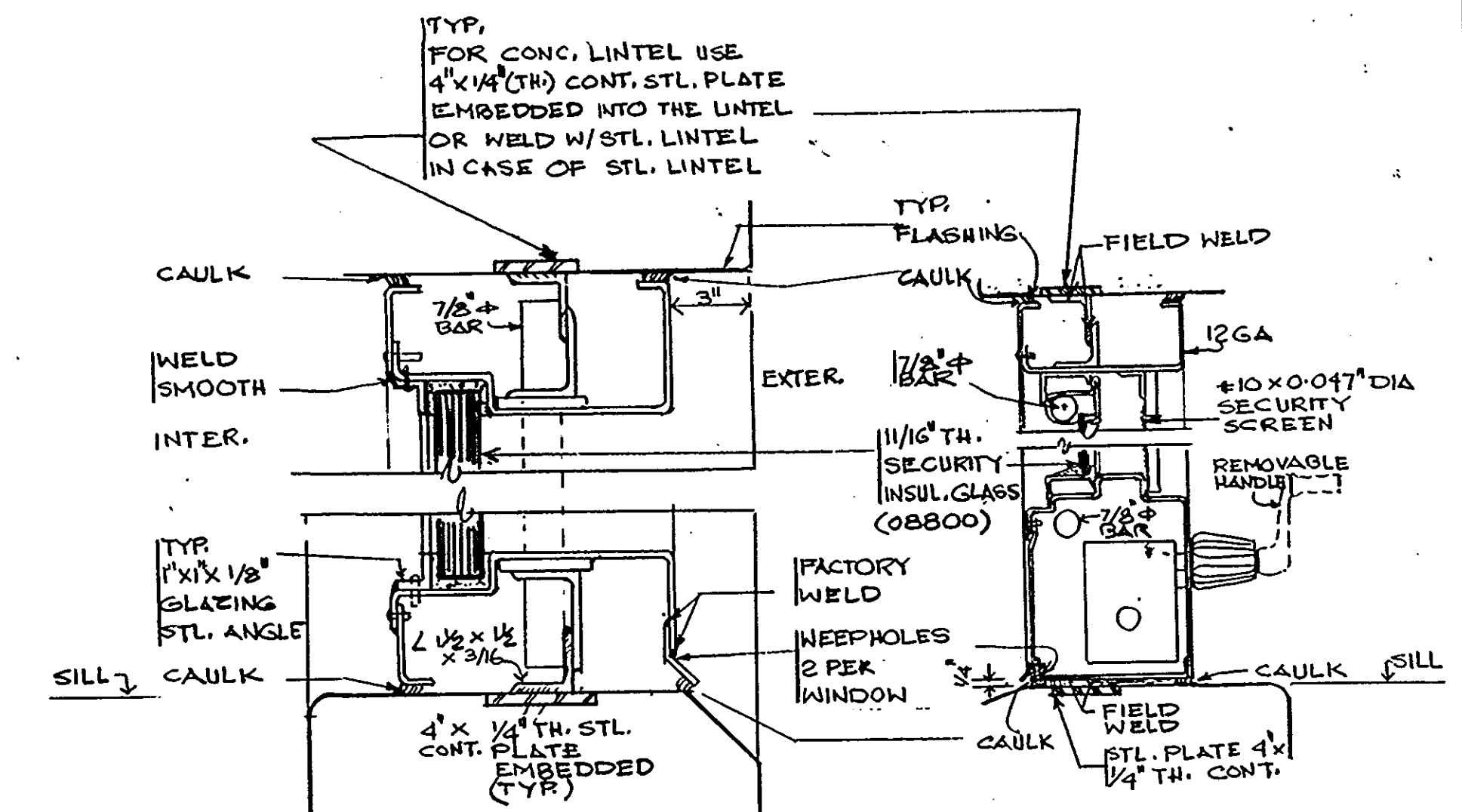
ARCHITECTURAL TECHNOLOGIES INC.
Architects and Construction Consultants
9192 Red Branch Rd. Suite 300
Columbia MD. 21045 (301) 995-4067

1. DOOR SCHEDULE

* SEE HARDWARE SCHEDULE 08710, TYP. FOR ALL DOORS

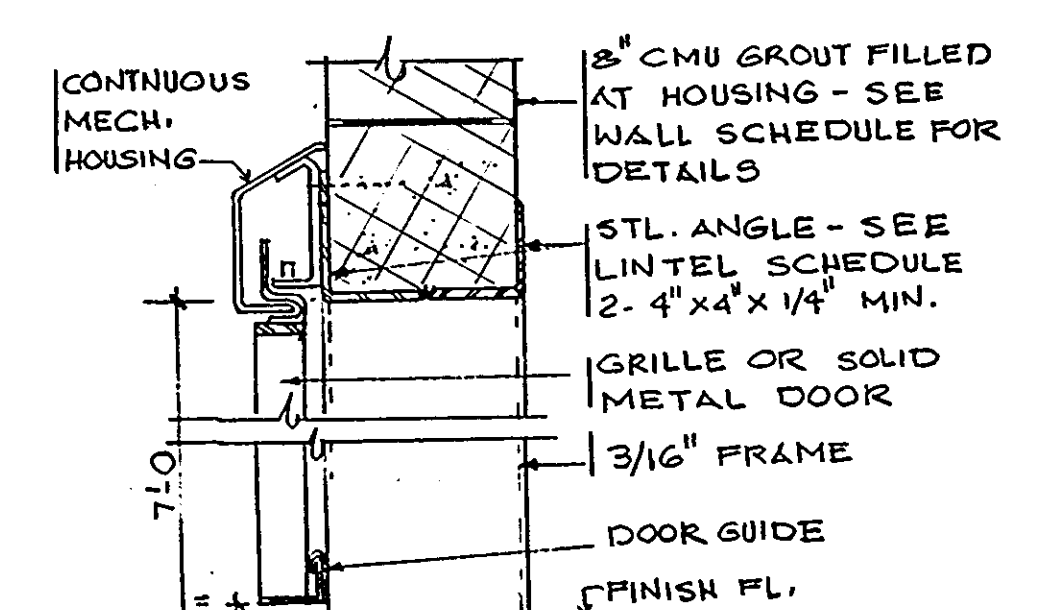
DOOR	MARK	SIZE W x H x TH.	MATERIAL & CONSTRUCTION	TYPE	FRAME MATERIAL & CONSTRUCTION	DETAIL	FIRE REST.		HARDWARE SET
							Label	Hour	
P1		2'-3" x 6'-8"	ALUM. & GLASS STORE FRONT	A	ALUM.				E
P2				A					E
*S P3		3'-0" x 6'-8" x 1-3/4"	HOLLOW METAL - 14 GA	D	HOLLOW METAL - 12 GA	GLASS TYPE 'D'	C	1/3	E
*S P4				D			C	1/3	E
*S P5				D					E
*S P6				D					E
*S P7		2'-8" (4) CLR. OPNG. x 7'-0" (4)	HOLLOW METAL - 12 GA	I	COMPLETE HOUSING FOR SLIDING DOOR				E
*S P8		2'-8" (4) CLR. OPNG. x 7'-0" (4)							E
*S P9		2'-8" (4) CLR. OPNG. x 7'-0" (4)							E
*S P10									E
*S P11		3'-0" x 6'-8" x 1-3/4"		D	HOLLOW METAL - 10 GA				E
*S P12		2'-8" (4) CLR. OPNG. x 7'-0" (4)	HOLLOW METAL - 12 GA	I	COMPLETE HOUSING FOR SLIDING DOOR				E
*S P13				I					E
*S P14				I					E
*S P15				I					E
*S P16		2'-8" (4) CLR. OPNG. x 7'-0" (4)	STL. GRILL DOOR	K					E
*S P17		2'-8" (4) CLR. OPNG. x 7'-0" (4)		K					E
*S P18				K					E
*S P19				K					E
*S P20			HOLLOW METAL - 12 GA	I		GLASS TYPE 'D'			E
*S P21			HOLLOW METAL - 12 GA	I					E
*S P22		3'-0" x 6'-8" x 1-3/4"		D	HOLLOW METAL - 10 GA				E
*S P23		2'-8" (4) CLR. OPNG. x 7'-0" (4)		I					E
*S P24				I					E
*S P25		3'-0" x 6'-8" x 1-3/4"		D					E
*S P25A				D			C	1/3	E
*S P26		3'-0" x 6'-8" x 1-3/4"	HOLLOW METAL - 14 GA	D	HOLLOW METAL - 12 GA		C	1/3	E
*S P27				D					E
*S P28				D					E
*S P29				F					E
P30		ROLLING DOOR 12'-0" x 12'-0"	INSULATED STEEL ROLLING DOOR (SEE SECTION 08360)	M	STEEL (SEE SECTION 08360)				E
P31		3'-0" x 6'-8" x 1-3/4"	HOLLOW METAL - 14 GA	B	HOLLOW METAL - 12 GA	GLASS TYPE 'A'			E
P32		ROLLING DOOR 12'-0" x 12'-0"	INSULATED STEEL ROLLING DOOR (SEE SECTION 08360)	M	STEEL (SEE SECTION 08360)				E
*S P33		3'-0" x 6'-8" x 1-3/4"	HOLLOW METAL - 14 GA	F	HOLLOW METAL - 12 GA				E
*S P34				D		GLASS TYPE 'D'	C	1/3	E
*S P35				D			C	1/3	E
*S P36				D			C	1/3	E

DOOR	MARK	SIZE W x H x TH.	MATERIAL & CONSTRUCTION	TYPE	FRAME MATERIAL & CONSTRUCTION	DETAIL	FIRE REST.		HARDWARE SET
							Label	Hour	
P37		3'-0" x 6'-8" x 1-3/4"	HOLLOW METAL - 18 GA.	F	HOLLOW METAL - 16 GA				
P38				F			C	1/3	
P39			HOLLOW METAL - 16 GA	P		GLASS TYPE 'C'			
P40				D		GLASS TYPE 'D'	C	1/3	E
P41			HOLLOW METAL - 18 GA	B					E
P42				P					E
*S P43		3'-0" x 6'-8" x 1-3/4"	HOLLOW METAL - 14 GA	D	HOLLOW METAL - 12 GA				E
*S P44			HOLLOW METAL - 12 GA	D	HOLLOW METAL - 10 GA				E
*S P45				G					E
*S P46				D					E
*S P47				D					E
*S P48		3'-0" x 6'-8" x 1-3/4"	HOLLOW METAL - 14 GA	D	HOLLOW METAL - 12 GA				E
P49				D					E
P50			SOLID CORE WOOD	G	HOLLOW METAL - 16 GA	GLASS TYPE 'G'			E
P51				E			C	1/3	
P52				E			C	1/3	
P53				G		GLASS TYPE 'G'			E
P54				G					E
P55		3'-0" x 6'-8" x 1-3/4"		E			C	1/3	
P56				F			C	1/3	
P57			SOLID CORE WOOD	F					E
P58				F	HOLLOW METAL - 14 GA		C	1/3	
P59		3'-0" x 6'-8" x 1-3/4"	HOLLOW METAL - 18 GA	F	HOLLOW METAL - 16 GA		B	1/2	
P60				F			C	1/3	
P61				F					E
P62		2'-3" x 6'-8" x 1-3/4"	HOLLOW METAL - 16 GA	L	HOLLOW METAL - 14 GA	GLASS TYPE 'A'			E
P63				L					E
P64				N					E
P65				N					E
P66		3'-0" x 6'-8" x 1-3/4"		F					E
P67				F					E
P68		2'-3" x 6'-8"	STORE FRONT ALUM. & GLASS	A	ALUM.	GLASS TYPE 'B'			E
P69		2'-3" x 6'-8" x 1-3/4"	HOLLOW METAL - 16 GA	N	HOLLOW METAL - 14 GA		B	1/2	
P70		3'-0" x 6'-8" x 1-3/4"	SOLID CORE WOOD	F	HOLLOW METAL - 16 GA		C	1/3	
P71		2'-3" x 6'-8" x 1-3/4"	SOLID CORE WOOD	M					E
P72		3'-0" x 6'-8" x 1-3/4"		F			C	1/3	
P73				G		GLASS TYPE 'G'			E

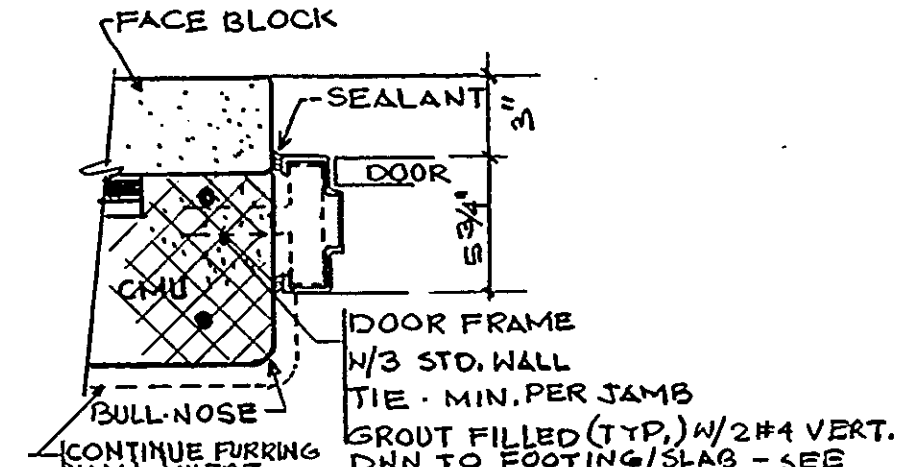


2. Security Window (S600tr) NO SCALE SEE SECTION 08650

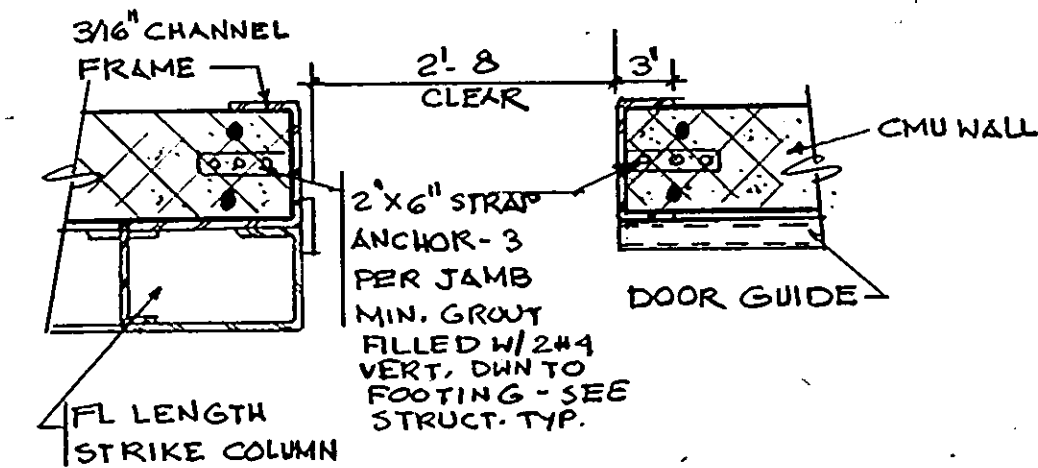
3. Security Window (SNO-1) NO SCALE SEE SECTION 08650



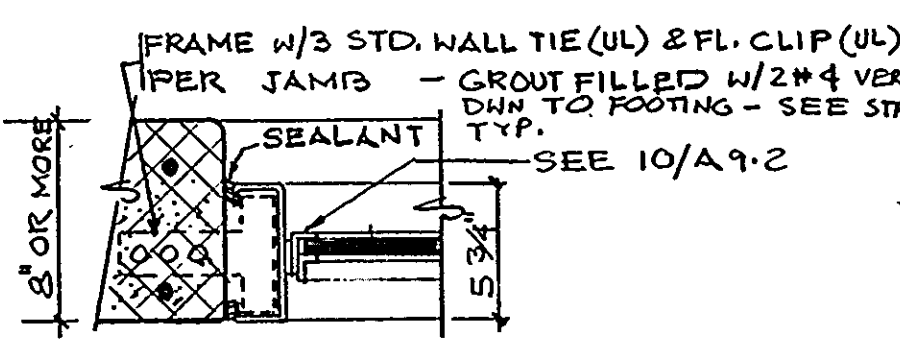
4. Manual Slider Header TYP. NO SCALE



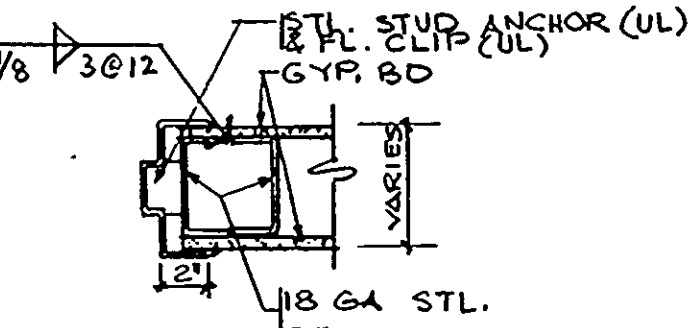
7. TYP. Jamb Detail Head Similar (Door) NO SCALE



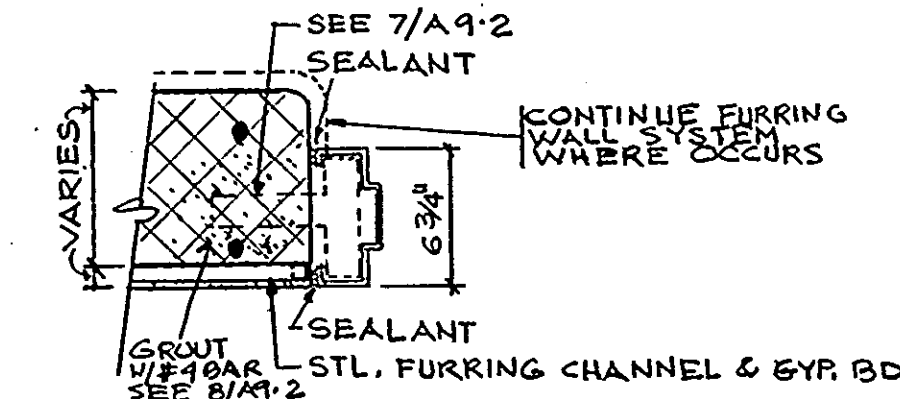
5. Jamb - Sliding Door TYP. NO SCALE



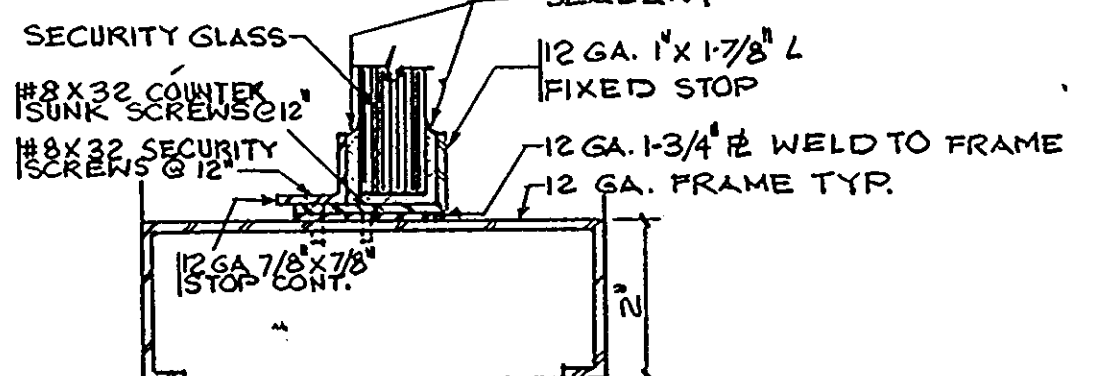
8. Jamb: Interior Window TYP. Head Similar. NO SCALE



6. Jamb AT Stud Wall TYP. NO SCALE



9. TYP. Jamb Detail NO SCALE



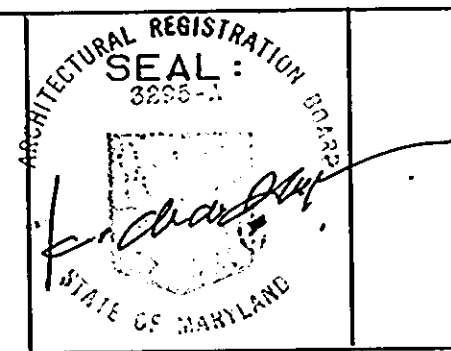
10. Security Glazing Typ Sill NO SCALE

NOTES:
*S = SECURITY DOOR
E = DOOR REQUIRES ELECTRIC CONNECTIONS

REVISIONS	DOOR SCHEDULE/DETAILS WINDOW	39 OF 90
AS-BUILT 11/24/94	HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
	SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 3-25-92
		DRAWING NO. A 9.2

ARCHITECTURAL TECHNOLOGIES INC.
Architects and Construction Consultants
9192 Red Branch Rd., Suite 300
Columbia MD. 21045 (301) 995-4067

IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: GODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
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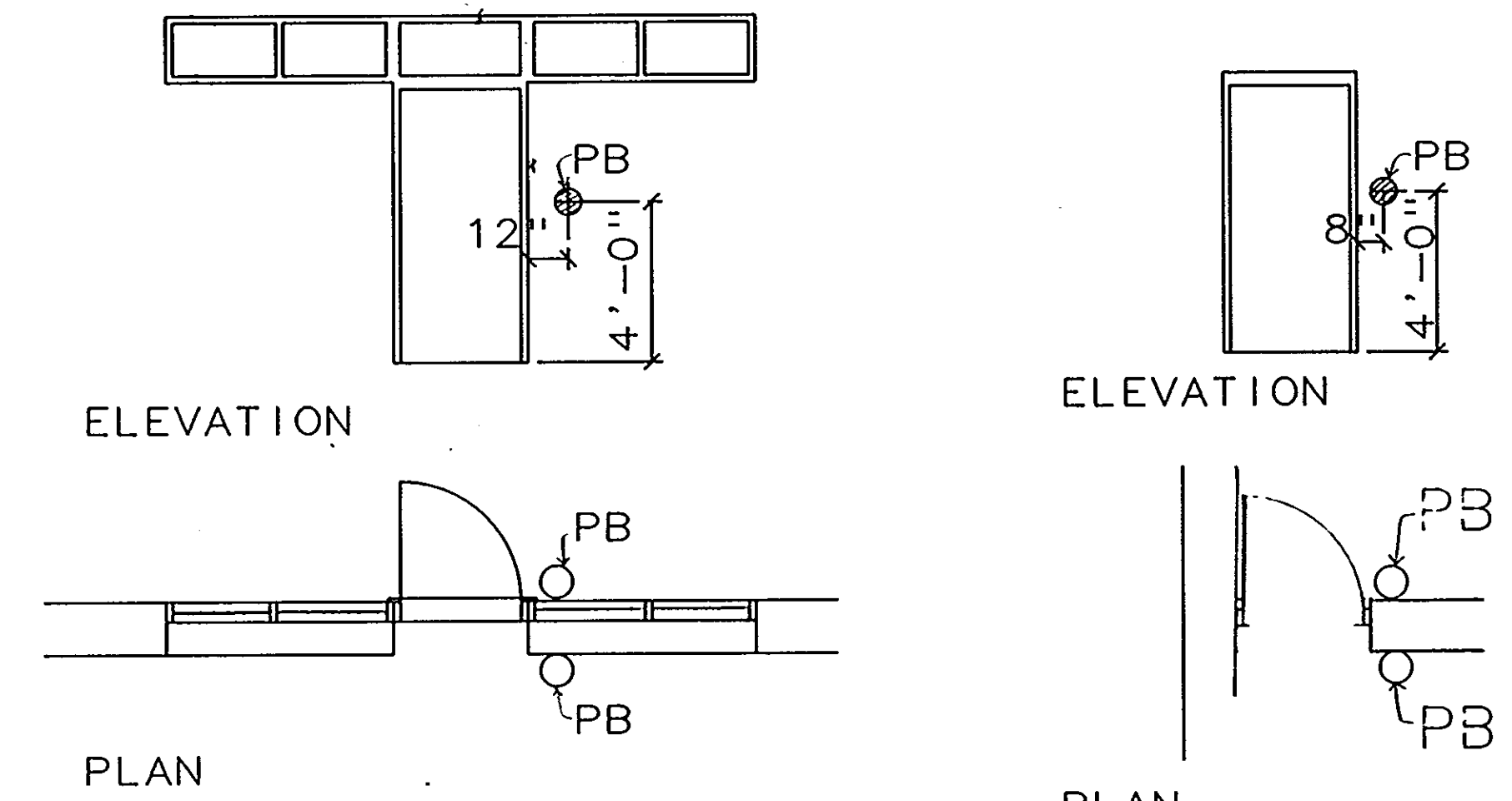
1. DOOR SCHEDULE

Mark	Size W x H x TH.	Material & Construction	Type	FRAME		FIRE REST.		HARDWARE SET
				Material & Construction	Detail	Label	Hour	
P74	2'-3" x 6'-8" x 1-3/4"	SOLID CORE WOOD	L	HOLLOW METAL - 16 GA	GLASS TYPE 'D'			
P75	3'-0" x 6'-8" x 1-3/4"		F			C	1/3	
P76			E			C	1/3	
P77			F					
P78	OPENING SIZE: 2'-6" x 6'-10"	SOLID CORE WOOD (BIFOLD)	H	METAL				
P79	3'-0" x 6'-8" x 1-3/4"		G	HOLLOW METAL - 16 GA	GLASS TYPE 'G'			
P80			G					
P81			D					
P82			G			C	1/3	
P83			D					
P84			D					
P85	3'-0" x 6'-8" x 1-3/4"		F					
P86			E					
P87			F					
P88	3'-0" x 6'-8" x 1-3/4"	SOLID CORE WOOD	D	HOLLOW METAL - 16 GA	GLASS TYPE 'G'			
P89			F					
P90	2'-3" x 6'-8" x 1-3/4"	ALUM. & GLASS STOREFRONT	A	ALUM.	GLASS TYPE 'B'			1/1
P91			A					1/1
P92	3'-0" x 6'-8" x 1-3/4"	SOLID CORE WOOD	G	HOLLOW METAL - 16 GA	GLASS TYPE 'G'			08710
P93	OPENING SIZE 5'-0" x 6'-10" (BIFOLD)	SOLID CORE WOOD (BIFOLD)	H	METAL				SEE HARDWARE SCHEDULE TYP. FOR ALL DOORS
P94	3'-0" x 6'-8" x 1-3/4"	SOLID CORE WOOD	D	HOLLOW METAL - 16 GA	GLASS TYPE 'G'			
P95	OPENING SIZE 5'-0" x 6'-10" (BIFOLD)	SOLID CORE WOOD (BIFOLD)	H	METAL				
P96	3'-0" x 6'-8" x 1-3/4"	SOLID CORE WOOD	G	HOLLOW METAL - 16 GA	GLASS TYPE 'G'			
P97			D					
P98	2'-3" x 6'-8" x 1-3/4"		L					
P99	3'-0" x 6'-8" x 1-3/4"		G					
P100			G					
P101			E					
P102			E					
P105			D		GLASS TYPE 'G'			
P103			D					
P106			D					
P107	3'-0" x 6'-8" x 1-3/4"	HOLLOW METAL - 18 GA	F	HOLLOW METAL - 16 GA		C	1/3	
P108			D		GLASS TYPE 'G'			
P109			F			C	1/3	
P110		HOLLOW METAL - 16 GA	C	HOLLOW METAL - 16 GA	GLASS TYPE 'A'			
P111		HOLLOW METAL - 18 GA	F					
P112			F			C	1/3	

Mark	Size W x H x TH.	Material & Construction	Type	FRAME		FIRE REST.		HARDWARE SET
				Material & Construction	Detail	Label	Hour	
P113	ROLLING DOOR 10'-0" x 10'-0"	INSULATED ROLLING DOOR SEE SECTION 08360	M	METAL - SEE 08360				F
P114			M					F
P115	3'-0" x 6'-8" x 1-3/4"	HOLLOW METAL - 18 GA	F	HOLLOW METAL - 16 GA				
P116		SOLID CORE WOOD	D		GLASS TYPE 'G'			
P117			D					
P118			D			C	1/3	
P119			G			C	1/3	
P120			D					
P121			D					
P122			D			C	1/3	
P123	3'-0" x 6'-8" x 1-3/4"	SOLID CORE WOOD	D	HOLLOW METAL - 16 GA				
P124			D					
P125			D					
P126			D					
P127			G					
P128			G					
P129	2'-3" x 6'-8" x 1-3/4"	STOREFRONT ALUM. & GLASS	A	ALUM.	GLASS TYPE 'B'			
P130			A					
P131		SOLID CORE WOOD	L	HOLLOW METAL - 16 GA	GLASS TYPE 'G'			SEE HARDWARE SCHEDULE TYP. FOR ALL DOORS
P132	3'-0" x 6'-8" x 1-3/4"		F					
P133			F					
P134		HOLLOW METAL - 16 GA	F	HOLLOW METAL - 16 GA		C	1/3	
P135		SOLID CORE WOOD	F			C	1/3	
P136			F			C	1/3	
P137	2'-3" x 6'-8" x 1-3/4"		L		GLASS TYPE 'G'			
P138			L					
P139	3'-0" x 6'-8" x 1-3/4"		G					
P140			G					
P141			G					
P142			G					
P143			E			C	1/3	
P144			E			C	1/3	

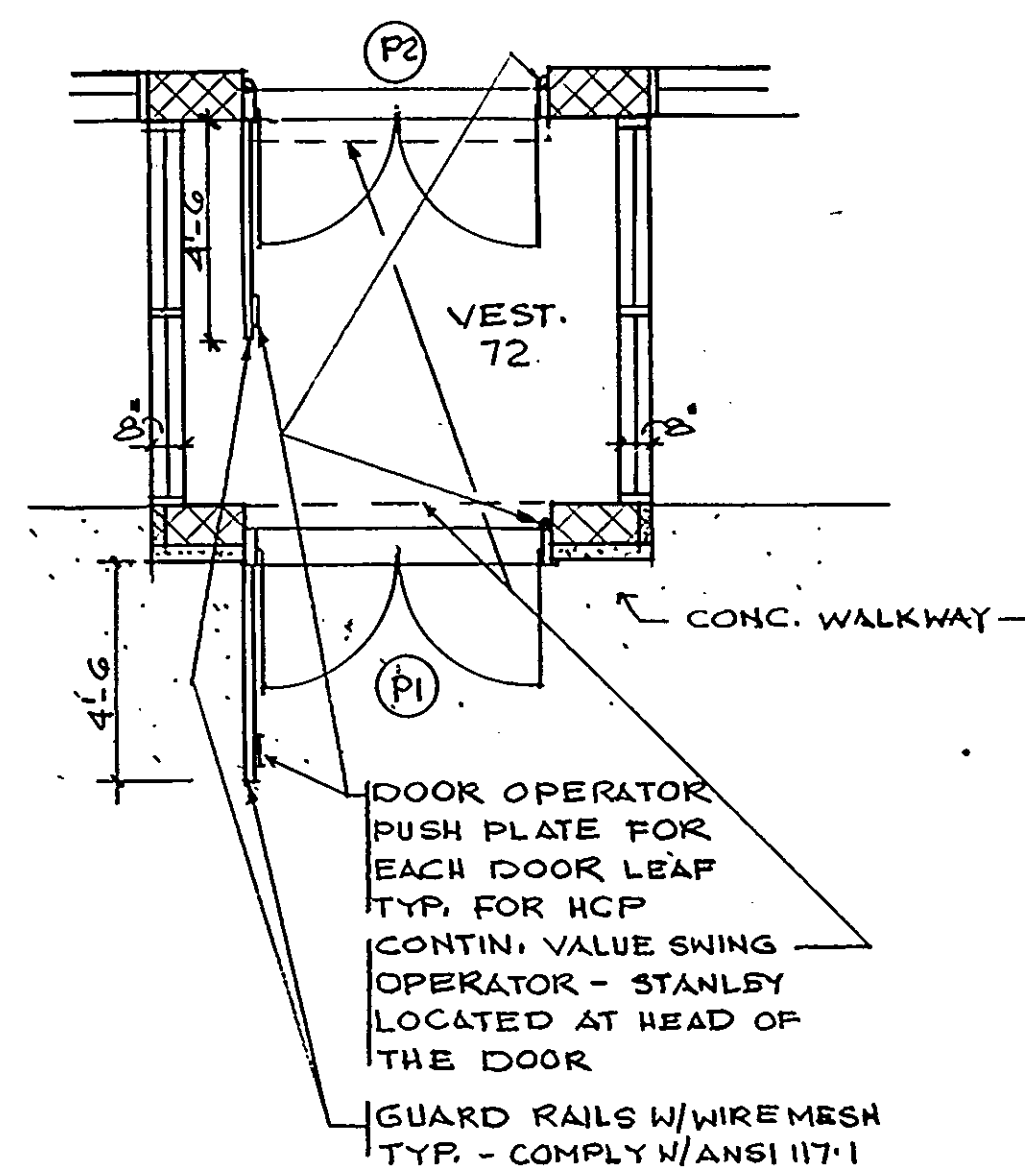
P90 - P144 : NOT IN CONTRACT.

2. TYP. PUSH BUTTON (PB) LOCATION



DOOR NO. P31

DOOR NO. P5, P29
P33, P36
P40, P43
P48, P49
P3, P6, P26
P41,



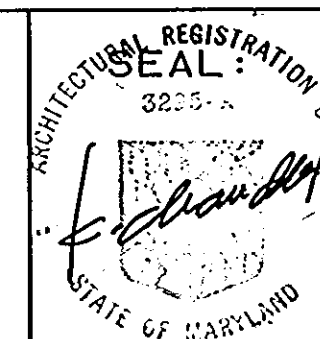
3. ENTRANCE DETAIL
1/4" = 1'-0"

NOTES:

*S = SECURITY DOOR
E = DOOR REQUIRES ELECTRIC CONNECTIONS

ARCHITECTURAL TECHNOLOGIES INC.
Architects and Construction Consultants
9192 Red Branch Rd. Suite 300
Columbia, MD. 21045 (301) 995-4067

IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: GODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING



REVISIONS

AS-BUILT	11/24/94
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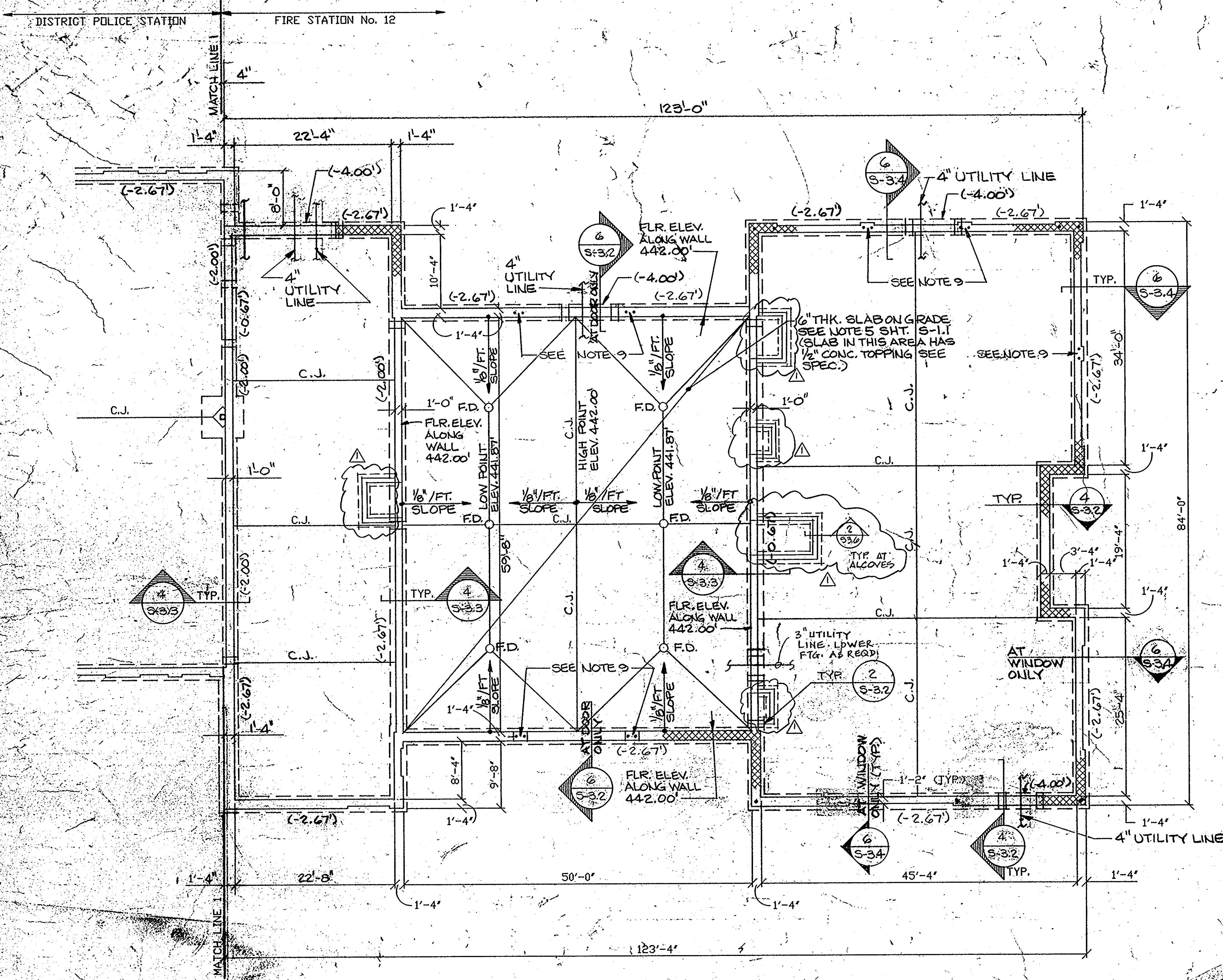
DOOR SCHEDULE/DETAILS
POLICE STATION - PHASE 1 & 2

40 OF 40

HOWARD COUNTY
PUBLIC SAFETY COMPLEX

SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD. 20707

CAPITAL PROJECT NO. C - 0227
DATE: 3-25-92
DRAWING NO. A 9:3

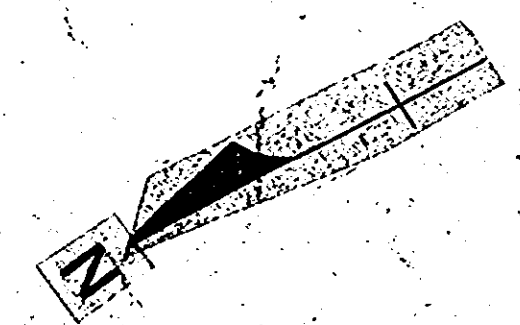


FOUNDATION AND SLAB ON GRADE NOTES

1. THE TOP OF FINISHED FLOOR SHALL BE AT ELEV. 442.00' EQUALS REFERENCE DATUM 0.00', UNLESS NOTED OTHERWISE ON PLAN.
2. ALL ELEVATIONS NOTED ON PLAN ARE WITH RESPECT TO REFERENCE DATUM.
3. ELEVATIONS NOTED THUS (-XX.XX) ARE TOP OF FOOTING ELEVATIONS. TOP OF ALL INTERIOR FOOTINGS SHALL BE AT ELEV. (-0.67') UNLESS NOTED OTHERWISE ON PLAN.
4. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE MIN. 3'-0" BELOW EXTERIOR FINISHED GRADE.
5. THE SLAB ON GRADE SHALL BE 5" THICK CONCRETE SLAB REINFORCED WITH 6x6-W2.0x2.0 W.V.F. UNLESS NOTED AS 6" THICK CONCRETE SLAB WHICH SHALL BE REINFORCED WITH 6x6-W2.0x2.0 W.V.F. ALL SLABS SHALL BE PLACED ON VAPOR BARRIER OVER 4" WASHED GRAVEL OR CRUSHED STONE UNLESS NOTED OTHERWISE ON PLAN OR SECTIONS.
6. FOR SIZE AND LOCATION OF SLAB OPENINGS, DEPRESSIONS, SLOPES, ETC. NOT SHOWN ON PLAN, SEE ARCH/MECH/ELECT. DRAWINGS.
7. WORK THIS DRAWING WITH:
 - a) GENERAL NOTES ON DWG. S-3.1
 - b) TYPICAL FOUNDATION DETAILS ON DWGS. S-3.2 & S-3.3
 - c) TYPICAL FOOTING SCHEDULES ON DWG. S-3.4
 - d) SECTIONS ON DWGS. S-3.4, S-3.5, S-3.6.
 - e) ENTIRE CONTRACT DOCUMENTS ON THIS PROJECT.
8. ALL FOUNDATION MASONRY WALLS SHALL CONFORM TO ASTM C-145, U.N.O. IN SECTIONS.
9. PROVIDE 2 #4 CONT. @ PIER. REBARS START FROM UNDERNEATH OF BOND BEAM DOWN INTO FOOTING. FILL CELLS SOLID WITH GROUT AT REBAR LOCATIONS. DOWEL AS SHOWN ON SECTION 2/S-3.4.
10. CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS PLUMBING, SANITARY AND STORM DRAIN LINES BY COORDINATION WITH MECHANICAL AND CIVIL DRAWINGS.
11. 3 #5 CONT. @ PIER. REBAR STARTS FROM UNDERNEATH OF BOND BEAM DOWN TO FOOTING. FILL CELLS SOLID WITH GROUT AT REBAR LOCATIONS. DOWELS AS SHOWN ON SECTION 2/S-3.4.
12. C.J. ON PLAN INDICATES SLAB-ON-GRADE CONTROL JOINT. SEE TYPICAL DETAIL 1/S-3.2.
13. EXTERIOR MASONRY WALLS AT THESE AREAS NOTED ON FOUNDATION PLAN SHALL BE REINFORCED WITH #5 VERT. @ 4'-0" O.C. FROM UNDERNEATH BOND BEAM DOWN INTO FOOTING. FILL CELLS SOLID WITH GROUT AT LOCATION OF REBARS. SEE DETAIL 4A/S-3.2.
14. LOWER FOOTINGS AT ALL LOCATIONS WHERE UTILITY LINES PENETRATE THE FOUNDATION WALLS AS PER TYPICAL DETAIL 2/S-3.2.

PARTIAL FOUNDATION PLAN

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



ARCHITECTURAL TECHNOLOGIES, INC.
 Architects and Construction Consultants
 9192 Red Branch Rd. Suite 300
 Columbia, MD. 21045-4301 995-4067

IN ASSOCIATION WITH:
 CIVIL & GEOTECH ENGINEER
 STRUCTURAL ENGINEER
 MECHANICAL & ELECTRICAL ENGINEER
 FIRE PROTECTION ENGINEER

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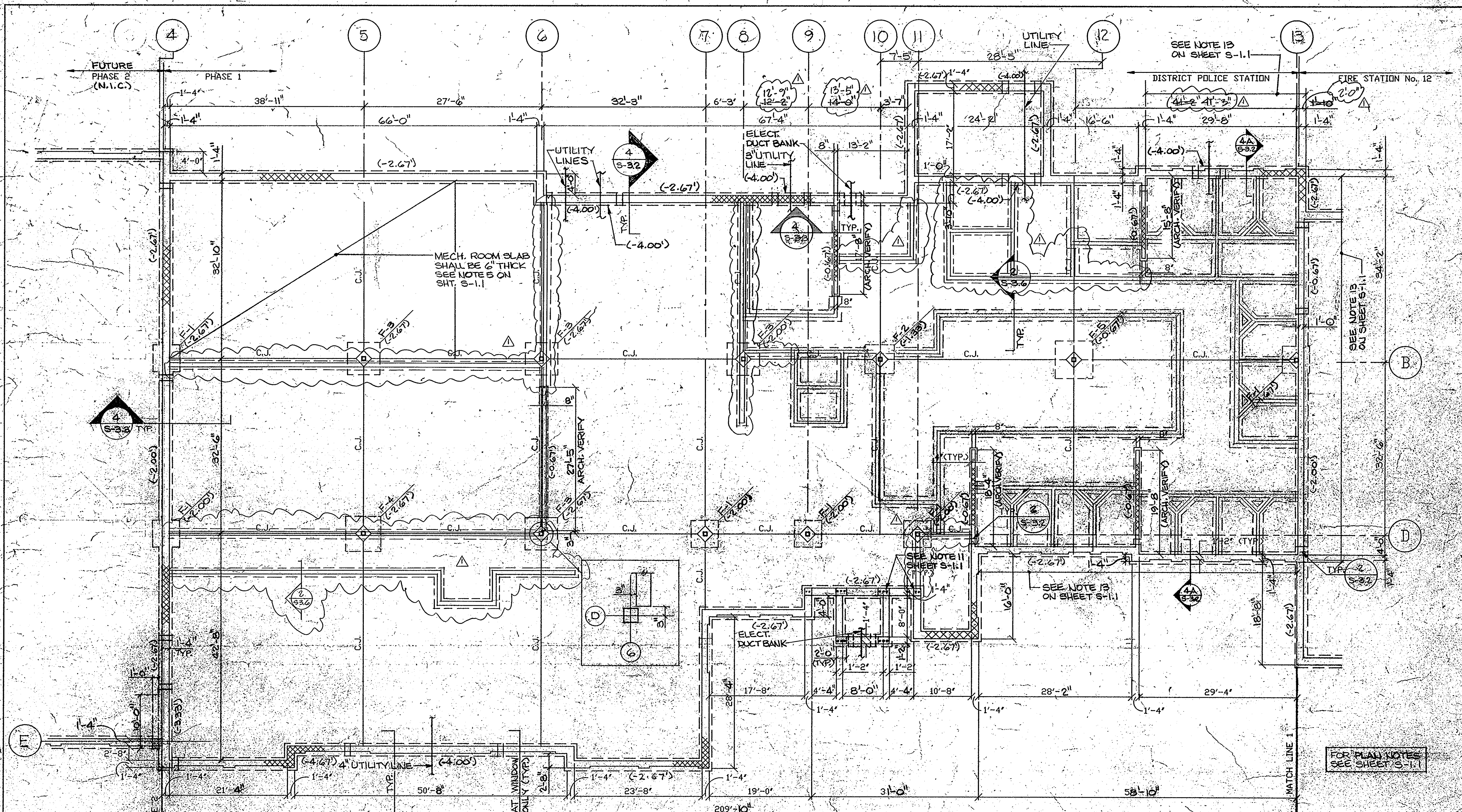


GODSH ENGINEERING SERVICES, INC.
 488 Center... Suite 100
 3000 Chestnut Avenue
 Baltimore, MD 21211
 (410) 882-1900

REVISIONS	
1	AS BUILT 11/24/94

PARTIAL FOUNDATION PLAN		41 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. 8-2-82-27
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707		DATE: 3-25-92
		DRAWING NO. S-11

1650



PARTIAL FOUNDATION PLAN

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

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 Architects and Construction Consultants
 9192 Red Branch Rd. Suite 300
 Columbia, MD 21045 (301) 995-4067

IN ASSOCIATION WITH:
 CIVIL & GEOTECH ENGINEER
 STRUCTURAL ENGINEER
 MECHANICAL & ELECTRICAL ENGINEER
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 10000 Chestnut Avenue
 Baltimore, MD 21111
 (301) 889-1900

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NO BUILT	11/24/94

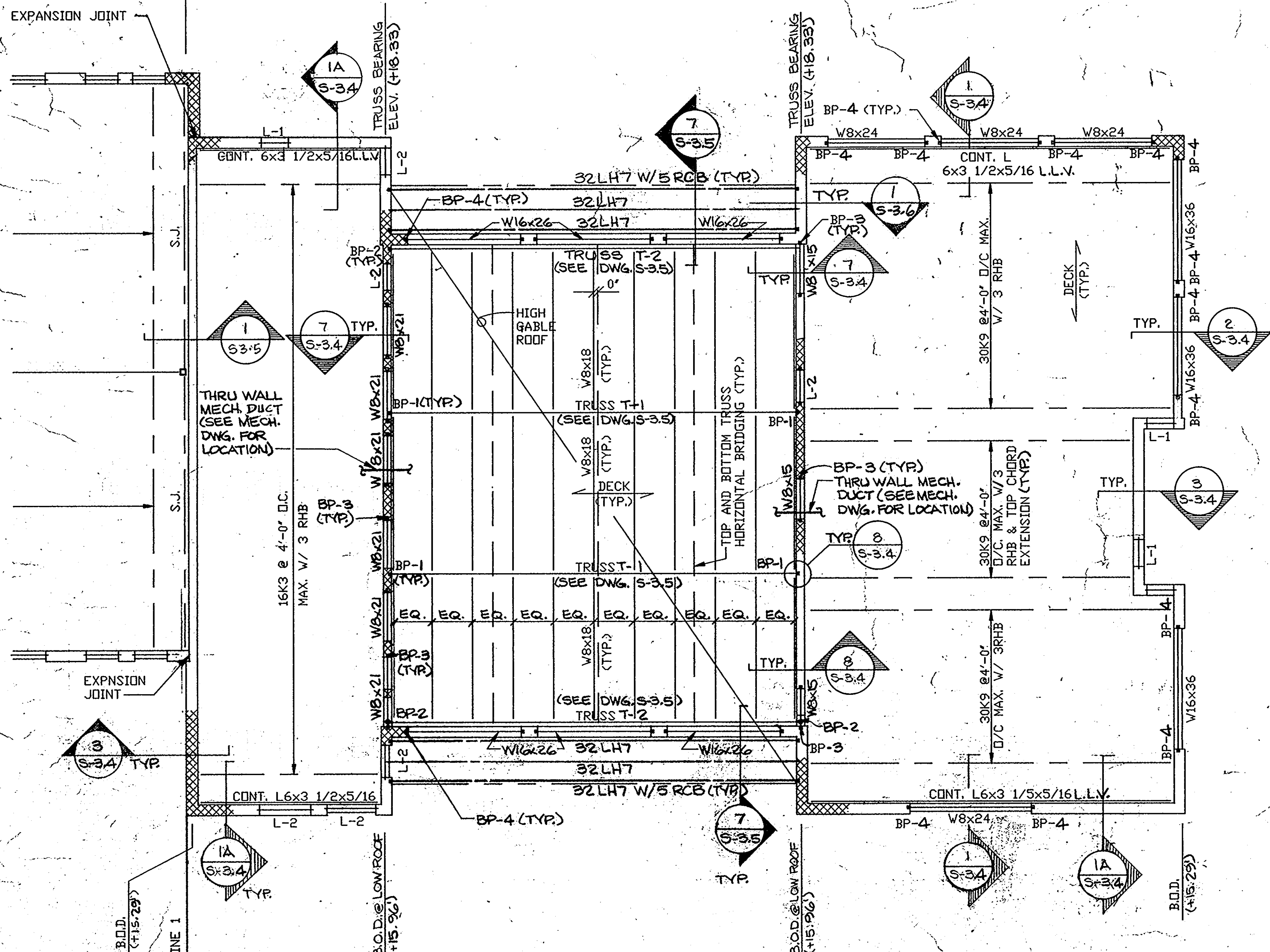
PARTIAL FOUNDATION PLAN	42 FEB 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. 5207
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD, 20707	DATE 5-25-92
	DRAWING NO S 12

1650

DISTRICT POLICE STATION FIRE STATION No. 12

ROOF FRAMING NOTES

1. THE BOTTOM OF DECK (B.O.D.) ELEVATIONS SHOWN THUS (+0.00) ON PLAN ARE TYPICALLY CONSTANT ALONG INDICATED COLUMN GRID LINES OR WALL U.N.O.
2. ALL ELEVATIONS NOTED ON PLAN ARE WITH RESPECT TO REFERENCE DATUM 0.00' WHICH EQUALS TOP OF FINISHED FLOOR ELEVATION.
3. TOP OF STEEL GIRDER OR JOIST GIRDER (JG) SHALL BE AT JOIST BEARING ELEVATION 2 1/2' BELOW B.O.D. ELEVATION, U.N.O.
4. TOP OF BEAM, PARALLEL TO ADJACENT JOIST, SHALL BE AT B.O.D. ELEVATION AT COLUMN.
5. SLOPE JOISTS, TIE BEAMS AND FILLER BEAMS, BETWEEN SUPPORTS, AS REQUIRED, TO MAINTAIN ROOF DECK PITCH SPECIFIED BY THE ARCHITECT.
6. PROVIDE CONTINUOUS HORIZONTAL BRIDGINGS AS NOTED ON PLAN. ATTACH ONE TO TOP CHORD OF JOIST AND OTHER TO BOTTOM AT EACH ROW. THE TYPICAL HORIZONTAL BRIDGING SHALL BE L1'x1'x7/64' CONT.
7. FOR SIZE AND LOCATIONS OF ROOF OPENINGS NOT SHOWN ON PLAN SEE ARCH/MECH. DRAWINGS.
8. THE SPACING, EXACT LOCATION AND OTHER DESIGN REQUIREMENTS OF ALL ROOF MEMBERS, SUCH AS JOISTS, JOIST GIRDERS, STEEL BEAMS, ETC., SUPPORTING MECHANICAL AND ELECTRICAL UNITS, SHALL BE COORDINATED WITH MECH/ELECT. CONTRACTOR.
9. WORK THIS DRAWING WITH:
 - a) GENERAL NOTES ON DWG. S-3.1
 - b) TYPICAL DETAILS ON DWGS. S-3.2 & S-3.3
 - c) SECTIONS ON DWGS. S-3.4 & S-3.5
 - d) ENTIRE CONTRACT DOCUMENTS ON THIS PROJECT.
10. MECHANICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND SIZE OF ROOF OPENINGS.
11. MC ON PLAN INDICATES FULLY DEVELOPED MOMENT CONNECTION.
12. S.J. ON PLAN INDICATES STRUT JOIST AT COLUMN CENTERLINE.
13. "RHB" ON PLAN INDICATES ROWS OF HORIZONTAL BRIDGING. "RCB" INDICATES ROWS OF CROSS BRIDGING.



PARTIAL ROOF FRAMING PLAN

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

ARCHITECTURAL TECHNOLOGIES INC.
 Architects and Construction Consultants
 9192 Red Branch Rd. Suite 300
 Columbia, MD. 21045 (301) 995-4067

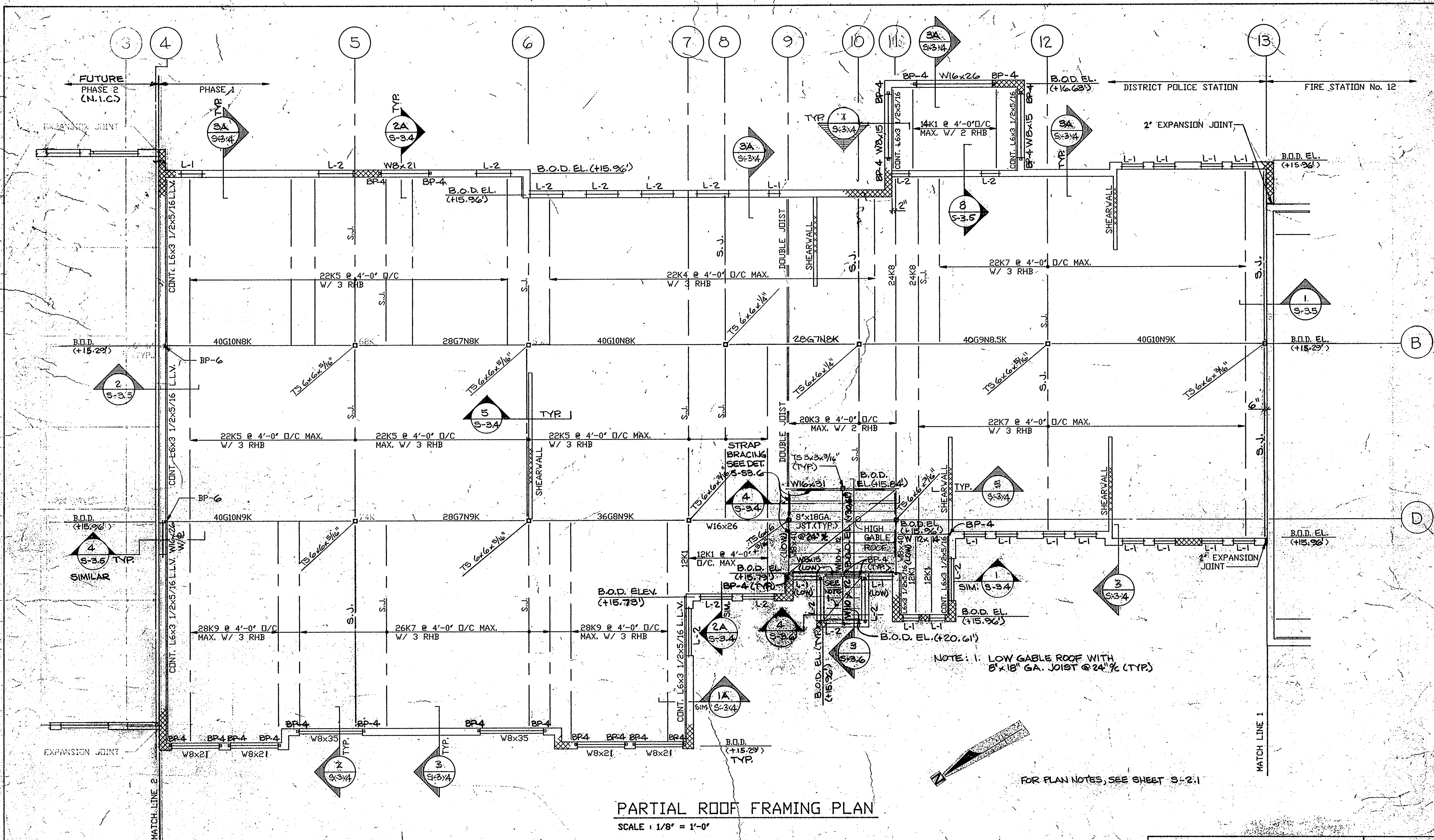
IN ASSOCIATION WITH
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 BHARGAVA INTERNATIONAL, INC.
 STANTON ENGINEERING

QODESH ENGINEERING SERVICES, INC.
 Mill Centre, Suite 100
 5000 Charlestown Avenue
 Baltimore, MD 21211
 (801) 889-1903

REVISIONS	
AS BUILT	11/24/94

PARTIAL ROOF FRAMING PLAN		43 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. 02-00024
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707		DATE: 3-25-92
		DRAWING NO. S 2.1



PARTIAL ROOF FRAMING PLAN

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

NOTE: 1. LOW GABLE ROOF WITH 8x18 GA. JOIST @ 24" (TYP)

FOR PLAN NOTES, SEE SHEET S-2.1

ARCHITECTURAL TECHNOLOGIES INC.
 Architects and Construction Consultants
 9192 Red Branch Rd. Suite 300
 Columbia, MD. 21045 (301) 995-4067

IN ASSOCIATION WITH:
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 STRUCTURAL ENGINEER
 MECHANICAL & ELECTRICAL ENGINEER
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GODDESH ENGINEERING SERVICES, INC.
 11111...
 2000...
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 (301) 982-1225

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PARTIAL ROOF FRAMING PLAN	44 08 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. 63-3922
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	DATE: 3-25-92
	DRAWING NO. S 2.2

FOUNDATIONS

- ALL FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL OR ON STRUCTURAL FILL HAVING A MINIMUM SAFE BEARING CAPACITY OF 2,000 PSF UNLESS AN INSPECTION AGENCY OR SOIL ENGINEER SHALL BE RETAINED AS STIPULATED IN THE SPECIFICATIONS FOR FIELDING. VERIFICATION OF THE ASSUMED SOIL BEARING PRESSURES SHOULD IN THE SOIL BEARING PRESSURE BE FOUND TO BE LESS THAN 2,000 PSF, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER. UNSUITABLE SOIL SHALL BE REPLACED BY SELECTED STRUCTURAL FILL AS DESCRIBED IN GEOTECHNICAL REPORT BY E.B.A. ENGINEERING INC.
- ISOLATED FOOTINGS SHALL BE LOWERED AND PIERS SHALL BE ADDED IN HEIGHT, ALL AS APPROVED, WHERE SOIL OF THE SPECIFIED BEARING CAPACITY IS FOUND AT A LOWER ELEVATION THAN SHOWN ON THE PLANS.
- BACKFILLING AGAINST FOUNDATION WALLS SHALL NOT BE DONE UNTIL WALLS HAVE BEEN CURED TO A SUFFICIENT STRENGTH (7 DAYS MINIMUM), AND WALLS ARE PROPERLY SHORED OR BRACED FOR AN ADDITIONAL 7 DAYS.
- THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS, AND EXCAVATIONS SHALL BE KEPT FREE OF WATER.
- EDGES OF FOOTINGS SHALL NOT BE PLACED AT A SLOPE GREATER THAN 1 (VERTICAL) TO 2 (HORIZONTAL) WITH RESPECT TO ANY ADJACENT FOOTINGS.
- THE FOUNDATION CONTRACTOR SHALL REFER TO THE MECHANICAL AND ELECTRICAL CONTRACT DRAWINGS FOR ALL LOCATIONS OF TRENCHES, PITS, CONDUITS, UNDERFLOOR AND PERIMETER DRAINAGE SYSTEMS ETC.
- THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 3'-0" BELOW FINISH GRADE.

CONCRETE

- ALL CONCRETE WORK SHALL CONFORM WITH THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE A.C.I. 318-89.
- ALL CONCRETE UNLESS NOTED OTHERWISE SHALL BE STONE CONCRETE HAVING A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3,000 PSI AFTER 28 DAYS.
- REPRESENTATIVE TEST CYLINDERS WILL BE TAKEN FROM THE CONCRETE PLACED EACH DAY IN ACCORDANCE WITH CONCRETE SPECIFICATIONS.
- REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE NEW BILLET STEEL CONFORMING TO CURRENT REQUIREMENTS OF A.S.T.M. A-615 GRADE 60. DESIGN STRESS = 24,000 PSI. LAP BARS, 40 DIAM. UNLESS OTHERWISE SHOWN.
- WELDED WIRE FABRIC SHALL HAVE A MINIMUM ULTIMATE STRENGTH OF 70,000 PSI AND SHALL CONFORM TO A.S.T.M. A-185.
- MINIMUM STEEL PROTECTION, UNLESS OTHERWISE SHOWN, SHALL BE 3/4" FOR SLABS, 1 1/2" FOR BEAMS, 3" FOR FOOTINGS AND OTHER STRUCTURAL CONCRETE DEPOSITED AGAINST GROUND.
- THE CONTRACTOR SHALL COOPERATE WITH OTHER TRADES AND WHERE REQUIRED, INSTALL ALL BUILT-IN WORK, SLEEVES, INSERT, ETC. AS REQUIRED FOR THE COMPLETION OF THE JOB.
- EXCAVATIONS SHALL BE KEPT FREE OF WATER. NO CONCRETE SHALL BE PLACED IN WATER.
- ALL SLABS ON GRADE SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS REQUIRED OR AS SHOWN HEREIN OR ON ARCHITECTURAL DRAWINGS.
- ALL MESH SHALL BE SPLICED SO THAT THE OVERLAP BETWEEN OUTERMOST CROSS WIRES OF EACH SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS TWO INCHES, UNLESS OTHERWISE SHOWN ON DRAWINGS.
- FOR ALL SLABS ON GRADE WHERE NOT OTHERWISE SPECIFIED, USE STYLE 6 x 6 - W1.4 x W1.4 W.W.F.
- ALL SLABS ON GRADE SHALL BE TROWELLED IN AT EVERY COLUMN LINE AND ELSEWHERE SHOWN ON FOUNDATION PLAN. SEE TYPICAL SLAB ON GRADE DETAIL FOR CONTROL JOINTS.

MASONRY

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION, AND ACI 530/ASCE 5.
- ALL EXTERIOR AND INTERIOR BEARING WALLS SHALL BE CONSTRUCTED OF LOAD BEARING UNITS.
- HOLLOW LOAD BEARING BLOCK SHALL CONFORM TO ASTM C-90 AND SOLID LOAD BEARING BLOCK SHALL CONFORM TO ASTM C-145.
- ALL MASONRY WALLS SHALL BE REINFORCED WITH TRUSS TYPE GALVANIZED DUR-O-WALL SPACED VERTICALLY AT 16" O.C. UNLESS PROVIDE CORNER AND TEE PIECES AT ALL INTERSECTIONS. LAP ALL DUR-O-WALL 6" MINIMUM.
- ALL LOAD BEARING AND EXTERIOR WALLS SHALL BE LAID WITH TYPE S MORTAR UNLESS NOTED OTHERWISE IN SPECIFICATION SECTION 04200.
- BRACE AND SHORE ALL WALLS AND LINTELS AS REQUIRED DURING CONSTRUCTION. SEE LINTEL SCHEDULE FOR END BEARING REQUIREMENTS.
- ALL FILL FOR MASONRY WALLS SHALL BE CONCRETE GROUT CONFORMING TO A.S.T.M. C476. GROUTING SHALL BE PLACED IN 5'-0" MAXIMUM LIFTS.
- PROVIDE CONTINUOUS BOND BEAM FILLED SOLID WITH GROUT AND CONTINUOUS REINFORCING UNDER ALL SUPPORT FOR OPEN WEB STEEL JOISTS AND STEEL JOIST GIRDERS.
- PROVIDE CONTROL JOINTS AT 30'-0" MAXIMUM ON CENTER IN ALL MASONRY WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.
- LAP ALL VERTICAL REINFORCING 48 BAR DIAMETER MINIMUM.

METAL DECKS

- ALL METAL DECKING SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE "SPECIFICATION OF THE STEEL DECK INSTITUTE".
- ALL METAL DECK SHALL BE GALVANIZED. ALL GALVANIZING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A525, G60.
- METAL DECK SHALL BE AS FOLLOWS:
NON-COMPOSITE ROOF DECK SHALL BE 22 GAUGE STEEL DECK WITH WIDE RIBS SPACED 6" O.C. AND DEPTH EQUAL TO 1 1/2". DECK SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES PER FOOT WIDTH:
I = .167 IN4
+S = .186 IN3
-S = .194 IN3
- ALL METAL DECKS HAVE BEEN DESIGNED TO BE CONTINUOUS OVER 3 SPANS MINIMUM, AND SHALL BEAR AT LEAST 2" ON STEEL SUPPORTS.
- DECK SHALL BE WELDED TO SUPPORTING STEEL AT ENDS OF UNITS AND ALL INTERMEDIATE SUPPORTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (UNLESS NOTED OTHERWISE ON PLAN).
- STANDARD CLOSURE SHALL BE PROVIDED AS REQUIRED.
- SHOP DRAWINGS SHALL INDICATE ALL INFORMATION NECESSARY FOR A COMPLETE FABRICATION AND ERECTION OF THE METAL DECK.
- PROVIDE STEEL HEADER FRAMES FOR SUPPORT OF METAL DECKING FOR ALL OPENINGS GREATER THAN 10' SQUARE.
- PROVIDE STEEL LEDGER ANGLE 2 1/2" x 2 1/2" x 1/4" AT STEEL COLUMNS AS REQUIRED FOR SUPPORT OF METAL DECKING.

DESIGN LIVE LOADS

- SLAB ON GRADE: ENGINE BAY = 150 P.S.F.
MECHANICAL ROOM = 150 P.S.F.
OTHER SPACES = 100 P.S.F.
- ROOF: = 30 P.S.F.
- WIND LOAD: = 70 MPH

STEEL JOISTS

- ALL OPEN WEB K JOISTS AND JOIST GIRDERS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD SPECIFICATIONS AND LOAD TABLES" AS ADOPTED BY THE STEEL JOIST INSTITUTE.
- STEEL JOISTS AND STEEL JOIST GIRDERS SHALL BE SHOP PAINTED WITH AN APPROVED CORROSION RESISTANT PRIMER. ALL STEEL SHALL BE PAINTED IN STRICT ACCORDANCE WITH THE AISC SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. PRIOR TO PAINTING, ALL STEEL SURFACES SHALL BE PREPARED IN ACCORDANCE WITH SSPC. REFER TO SPECIFICATIONS.
- MECHANICAL EQUIPMENT NOT SHOWN ON PLAN SHALL NOT BE PLACED DIRECTLY ON THE JOISTS WITHOUT THE APPROVAL OF THE ENGINEER. NO EQUIPMENT SHALL BE SUPPORTED FROM THE BOTTOM CHORD OR BETWEEN PANEL POINTS OF THE JOISTS.
- ALL STEEL JOISTS, SHALL BE INSPECTED BY AN AGENCY AS STIPULATED IN THE SPECIFICATIONS.
- PROVIDE AND INSTALL BRIDGING IN ACCORDANCE WITH STEEL JOIST INSTITUTE'S STANDARDS.
- NO CONSTRUCTION LOAD SHALL BE PLACED ON THE JOISTS BEFORE THE JOISTS ARE PERMANENTLY FASTENED TO SUPPORTS AND ALL BRIDGING AND ANCHORS ARE COMPLETELY INSTALLED.

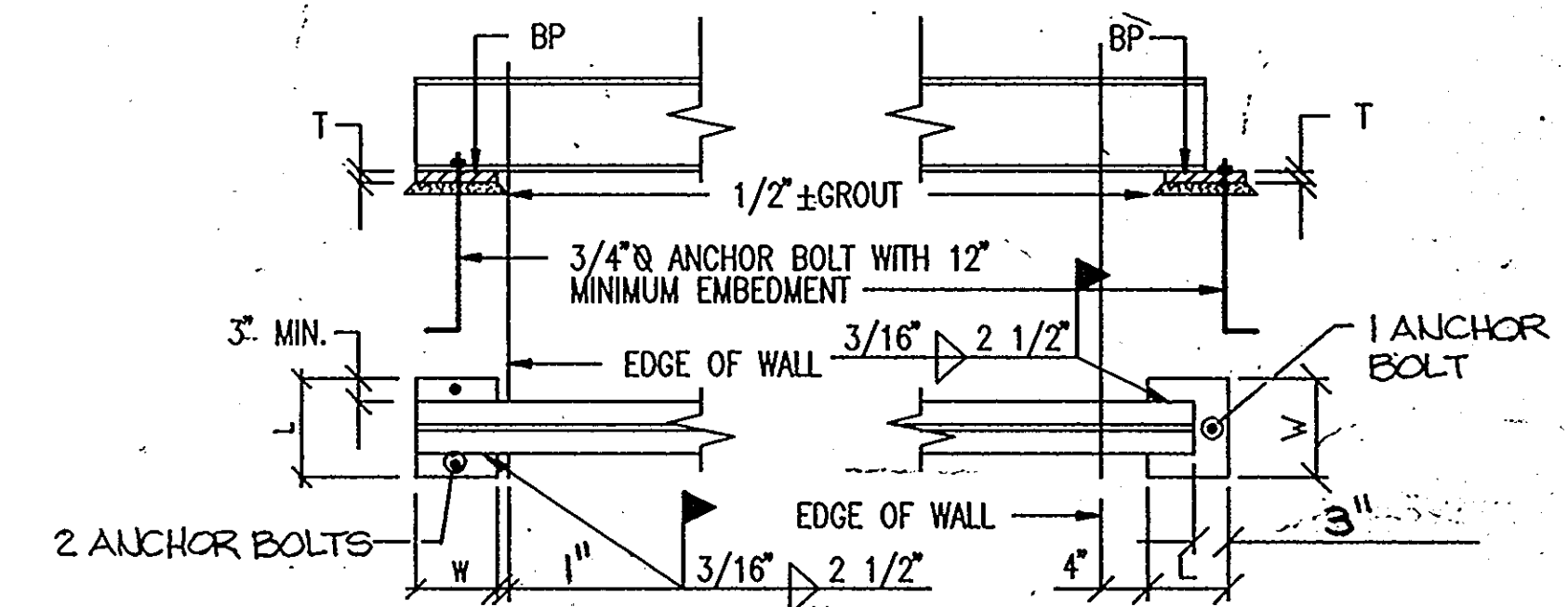
STRUCTURAL AND MISCELLANEOUS STEEL

- ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE NINTH EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND ALL ITS SUPPLEMENTS, AND TO THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
- ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A-36 HAVING A MINIMUM YIELD STRENGTH OF 36,000 PSI.
- STEEL TUBES SHALL CONFORM TO ASTM A 500 GRADE B, FY= 46,000 PSI.
- ALL WELDED CONNECTIONS SHALL BE DONE WITH E70XX ELECTRODES. ALL BOLTED CONNECTIONS SHALL USE 3/4" ASTM A325N HIGH STRENGTH BOLTS UNLESS NOTED OTHERWISE. ALL BEAM CONNECTIONS SHALL DEVELOP THE FULL UNIFORM LOAD CAPACITY. THE MEMBER CAN CARRY WITH DUE CONSIDERATION TO CONCENTRATED LOADS AT THE ENDS OF THE MEMBER. NO CONNECTION SHALL BE MADE USING LESS THAN TWO BOLTS. ALL ANCHOR BOLTS SHALL BE ASTM A-307.
- SHOP AND FIELD WELDS SHALL BE MADE BY APPROVED CERTIFIED WELDERS AND SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE FOR BUILDINGS AWS D11. WELDS SHALL DEVELOP THE FULL STRENGTH OF MATERIALS BEING WELDED, UNLESS OTHERWISE NOTED.
- NO OPENINGS IN BEAMS SHALL BE PERMITTED WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.
- THE USE OF A GAS-CUTTING TORCH IN THE FIELD FOR CUTTING HOLES OR FOR CORRECTING FABRICATION ERRORS WILL NOT BE PERMITTED ON NEW STRUCTURAL FRAMING MEMBERS EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER FOR EACH SPECIFIC CONDITION.
- ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH AN APPROVED CORROSION RESISTANT PRIMER. ALL STEEL SHALL BE PAINTED IN STRICT ACCORDANCE WITH THE AISC SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. PRIOR TO PAINTING, ALL STEEL SURFACES SHALL BE PREPARED IN ACCORDANCE WITH SSPC. REFER TO SPECIFICATIONS SECTION 05120.
- ERECTED STRUCTURAL STEEL SHALL BE INSPECTED BY QUALIFIED INSPECTORS AS STIPULATED IN THE SPECIFICATIONS. FIELD INSPECTION REPORTS TO BE FILED WITH THE STRUCTURAL ENGINEER WITHIN 5 DAYS OF TIME OF ACTUAL INSPECTION. INSPECTORS MUST BE NOTIFIED OF ALL PHASES OF CONSTRUCTION AND WELDING BY GENERAL CONTRACTOR.
- DURING ERECTION, STRUCTURAL STEEL FRAME SHALL BE ADEQUATELY BRACED IN ALL LINES, TWO WAYS, IN PERPENDICULAR DIRECTIONS.

LINTEL SCHEDULE

- FOR ALL OPENINGS NOT SPECIFICALLY SHOWN ON PLAN, (OPENINGS FOR MECHANICAL TRADES, OPENINGS IN NON-BEARING WALLS, ETC.) PROVIDE L-1, L-2, P-1 OR P-2 COORDINATE WITH ALL THE CONSTRUCTION DOCUMENTS.
- WELD ALL MULTIPLE ANGLE LINTELS AT ENDS AND 1/3 POINTS.
- SHORE LINTELS TO PREVENT ROTATION DURING CONSTRUCTION.
- ALL LINTELS TO HAVE A MINIMUM 8" SOLID BEARING UNLESS NOTED OTHERWISE.
- FOR 10" WALL, USE MULTIPLES OF 4x4x5/16" ANGLES FOR L-1. CONDITION AND MULTIPLES OF 6x4x5/16" L.L.V. ANGLES FOR L-2.

MARK	MATERIAL	REMARKS
L-1	1-4x3 1/2 x 5/16 ANGLE FOR EACH 4' WALL THICKNESS FOR OPENINGS UP TO 6'-0". SEE NOTE 5 ABOVE	FOR CAVITY WALLS, REPLACE 1-4x3 1/2 x 5/16 ANGLE WITH 1-6x6 x 5/16 ANGLE.LLV
L-2	1-6x3 1/2 x 5/16 ANGLE FOR EACH 4' WALL THICKNESS FOR OPENINGS FROM 6'-1' TO 10'-0". SEE NOTE 5 ABOVE	FOR CAVITY WALLS, REPLACE 1-6x3 1/2 x 5/16 ANGLE WITH 1-6x6 x 5/16 ANGLE.LLV
P-1	8' MIN. DEEP PRECAST 1-#3 T & B FOR EACH 4' WALL THICKNESS OR FRACTION THEREOF.	FOR OPENINGS UP TO 6'-0".
P-2	16' MIN. DEEP PRECAST 1-#6 T & B FOR EACH 4' WALL THICKNESS OR FRACTION THEREOF.	FOR OPENINGS FROM 6'-1' TO 15'-0"



BEAM PERPENDICULAR TO WALL BEAM PARALLEL TO WALL

PROVIDE 16" MINIMUM DEEP SOLID BEARING BELOW ALL BEARING PLATES ON MASONRY. SOLID BEARING SHALL BE TWICE THE LARGEST PLATE DIMENSION IN LENGTH. THE SOLID BEARING SHALL BE CMU FILLED SOLID WITH GROUT.

SCHEDULE	
MARK	SIZE, T x W x L (INCHES)
BP-1	1 3/8" x 8" x 1'-10"
BP-2	1" x 8" x 1'-6"
BP-3	1/2" x 10" x 0'-10"
BP-4	1/2" x 8" x 0'-10"
BP-5	3/4" x 8" x 1'-8"
BP-6	1 3/4" x 8" x 1'-6"

TYPICAL BEAM BEARING PLATE SCHEDULE

1
S3.1

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Architects and Construction Consultants.
9192 Red Branch Rd, Suite 300
Columbia MD, 21045 (301) 995-4067

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QODESH ENGINEERING SERVICES, INC.
4000 Chestnut Avenue
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(301) 889-1203

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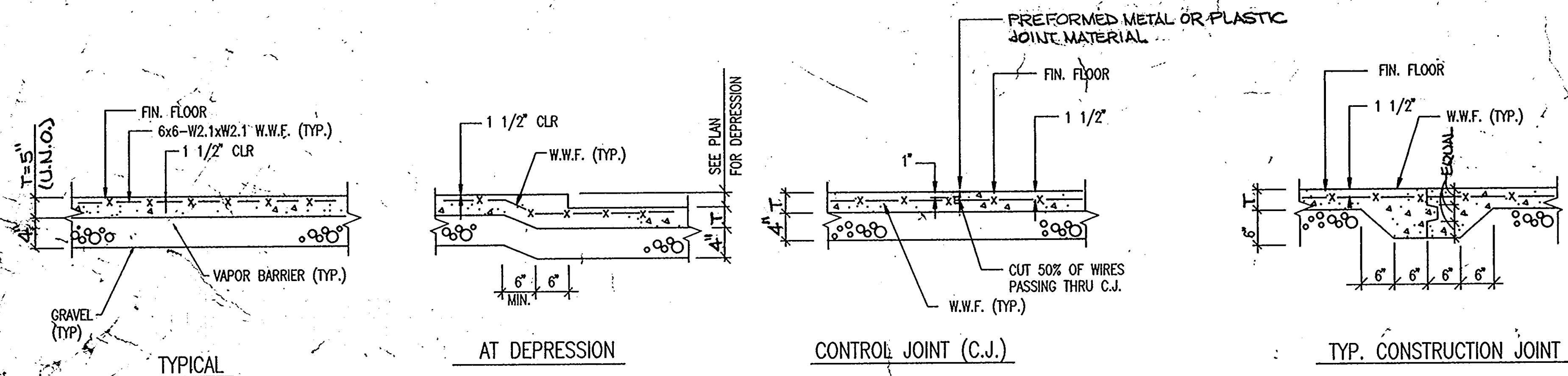
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GENERAL NOTES AND SCHEDULES 45 OF 90

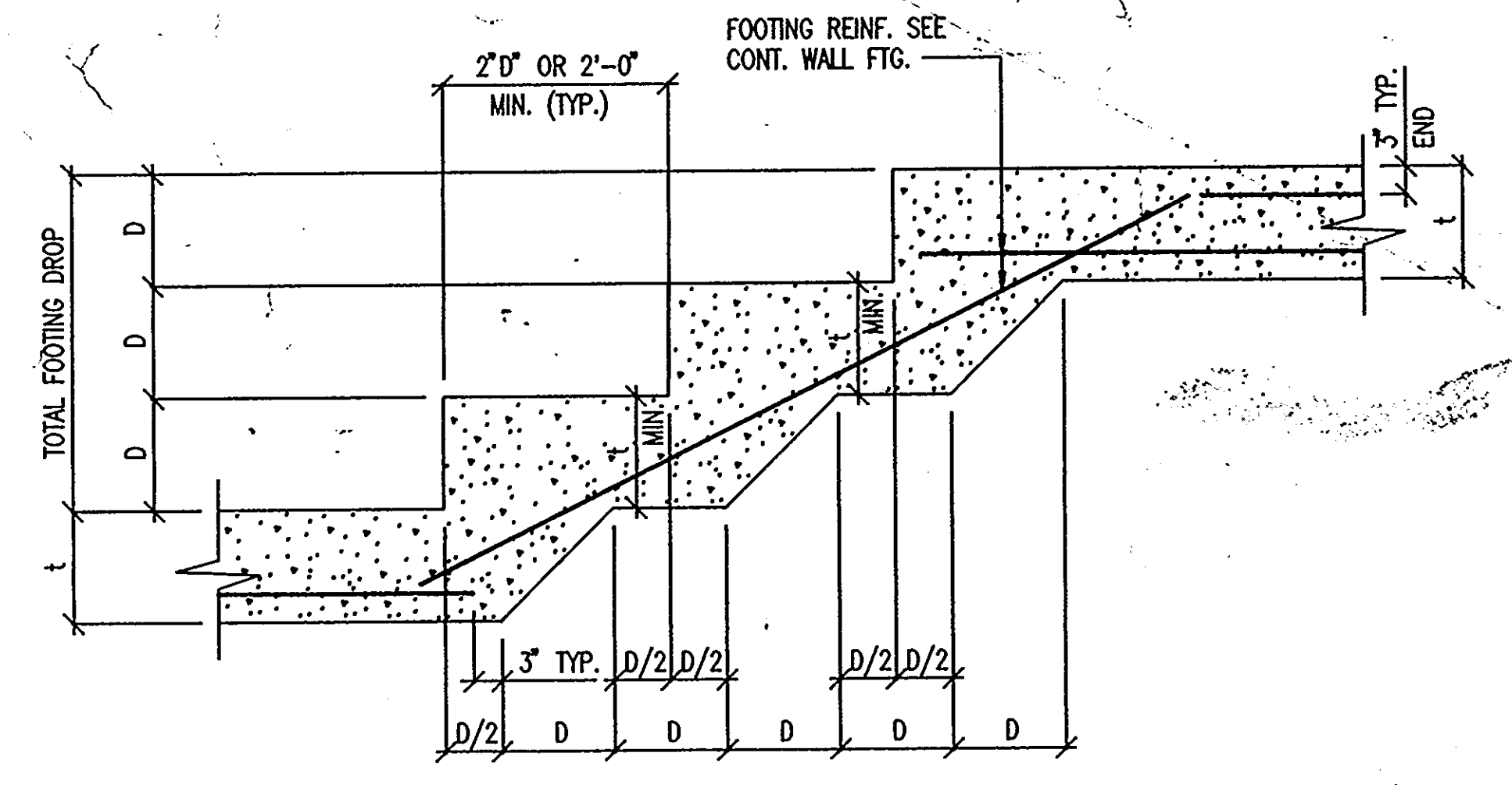
HOWARD COUNTY PUBLIC SAFETY COMPLEX

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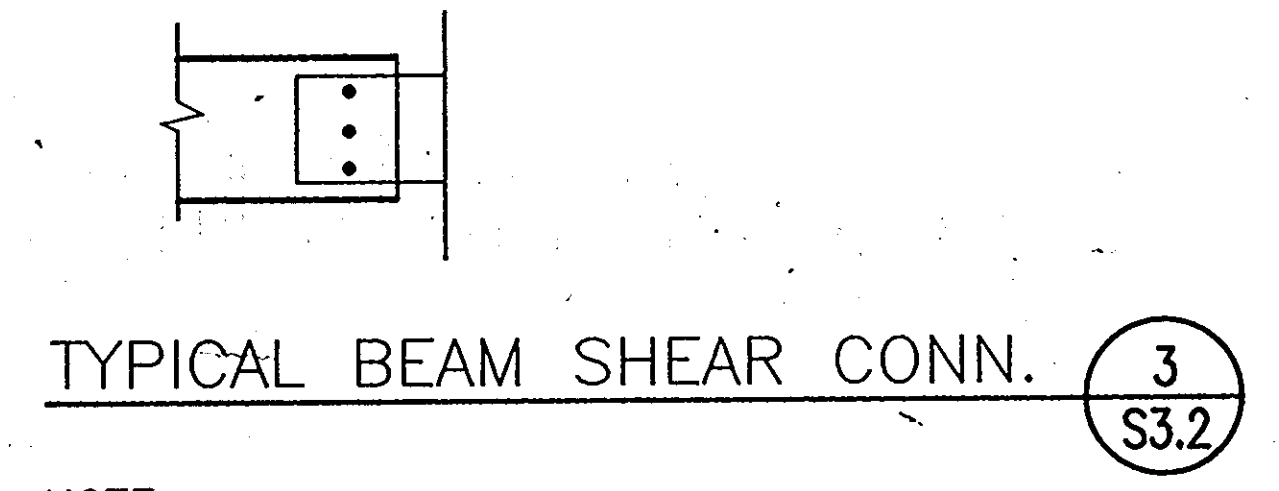
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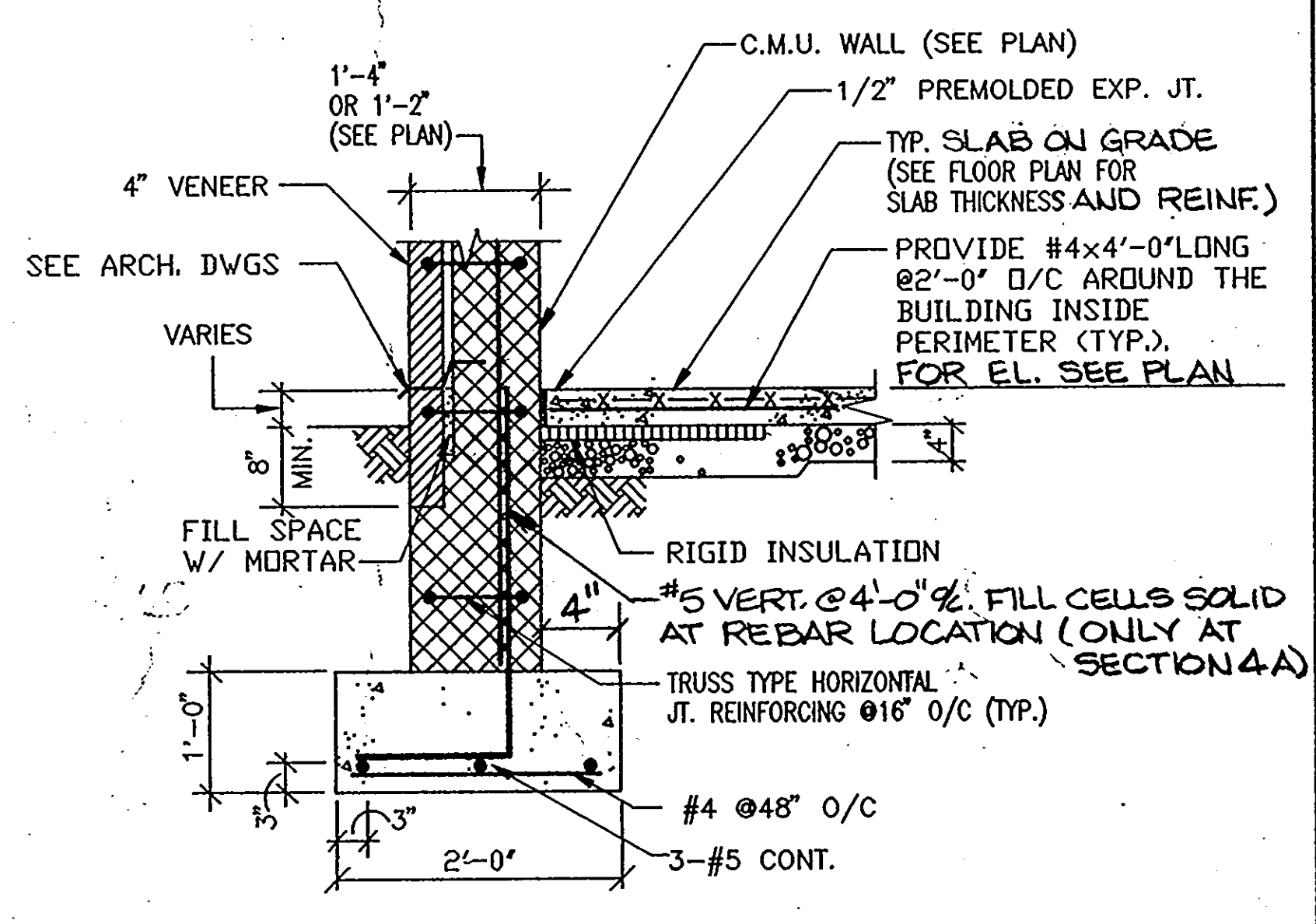
TYPICAL SLAB ON GRADE DETAILS **1**
S3.2



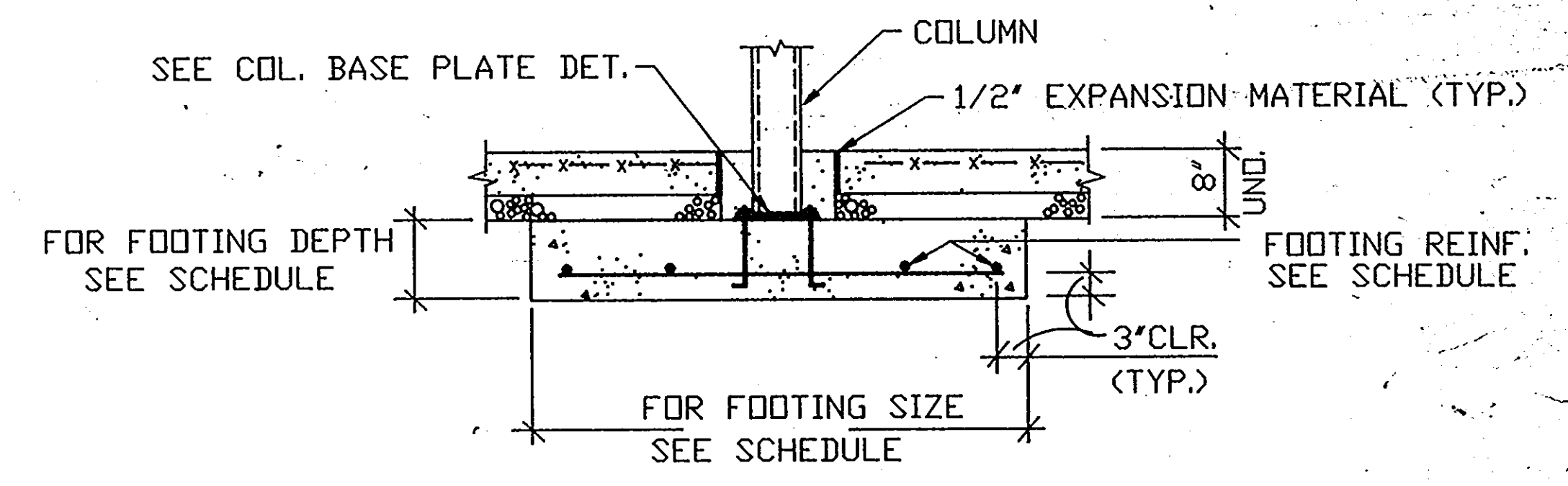
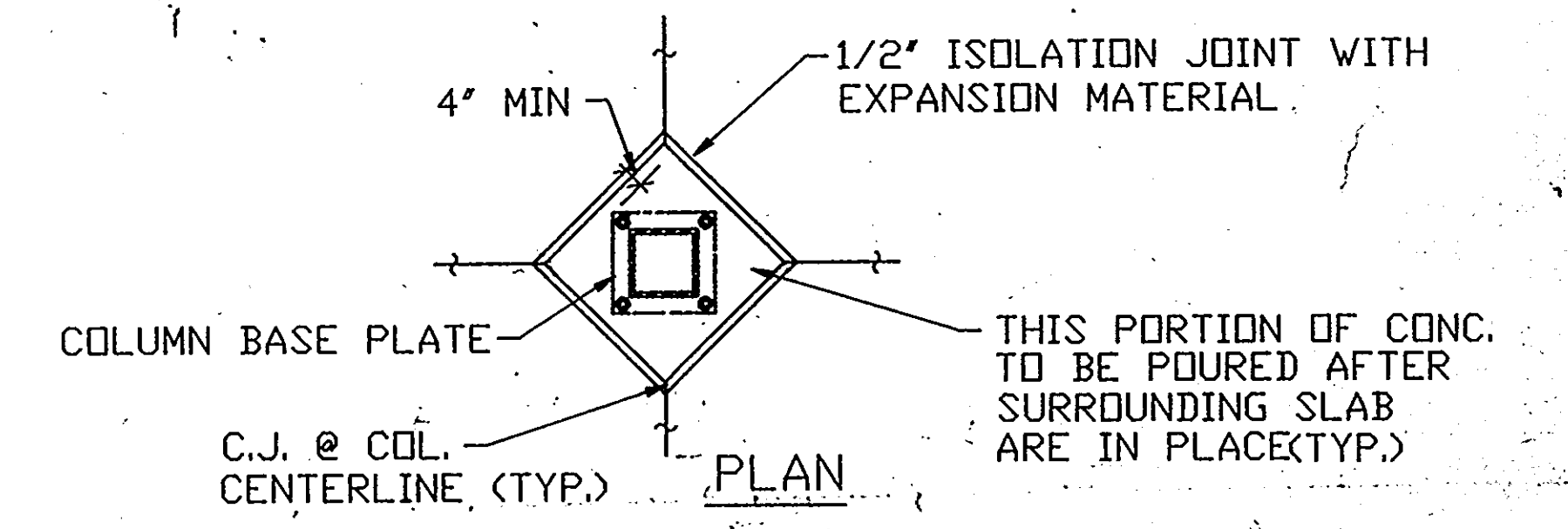
CONTINUOUS WALL FOOTING STEP DETAIL **2**
S3.2



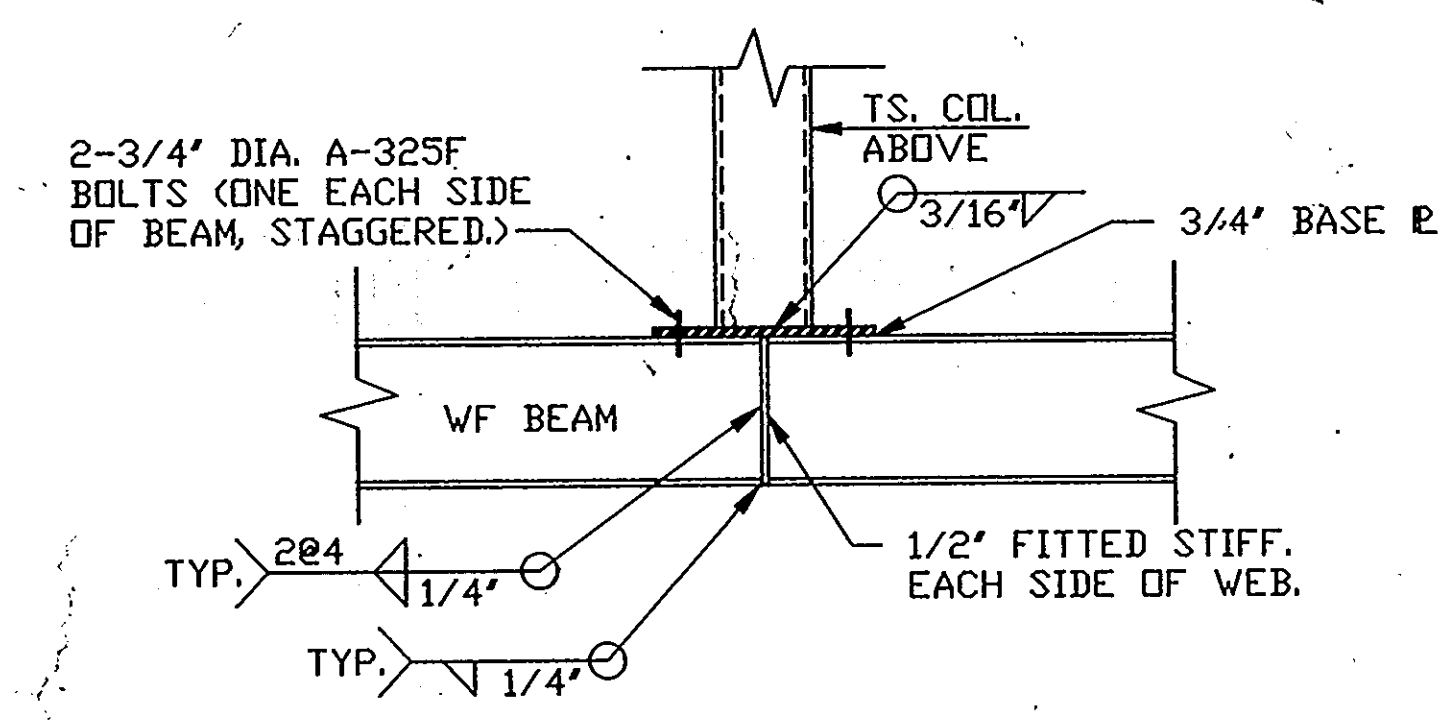
NOTE:
 1. ALL CONN. SHALL BE BOLTED OR WELDED, AND SHALL BE IN ACCORDANCE WITH TABLES 2 THRU 8 A.I.S.C. MANUAL 9th EDITION.
 2. CONN. SHALL DEVELOP END REACTION FOR SPECIFIED SHAPE, SPAN AND STEEL GRADE AS COMPUTED FROM TABLES INDICATING UNIFORM LOAD CONSTANTS FOR BEAMS LATERALLY SUPPORTED. A.I.S.C. MANUAL 9th EDITION UNLESS OTHERWISE NOTED ON PLAN.
 3. ALL BOLTS USED FOR FINAL CONN. SHALL BE A-325 H.S BOLTS



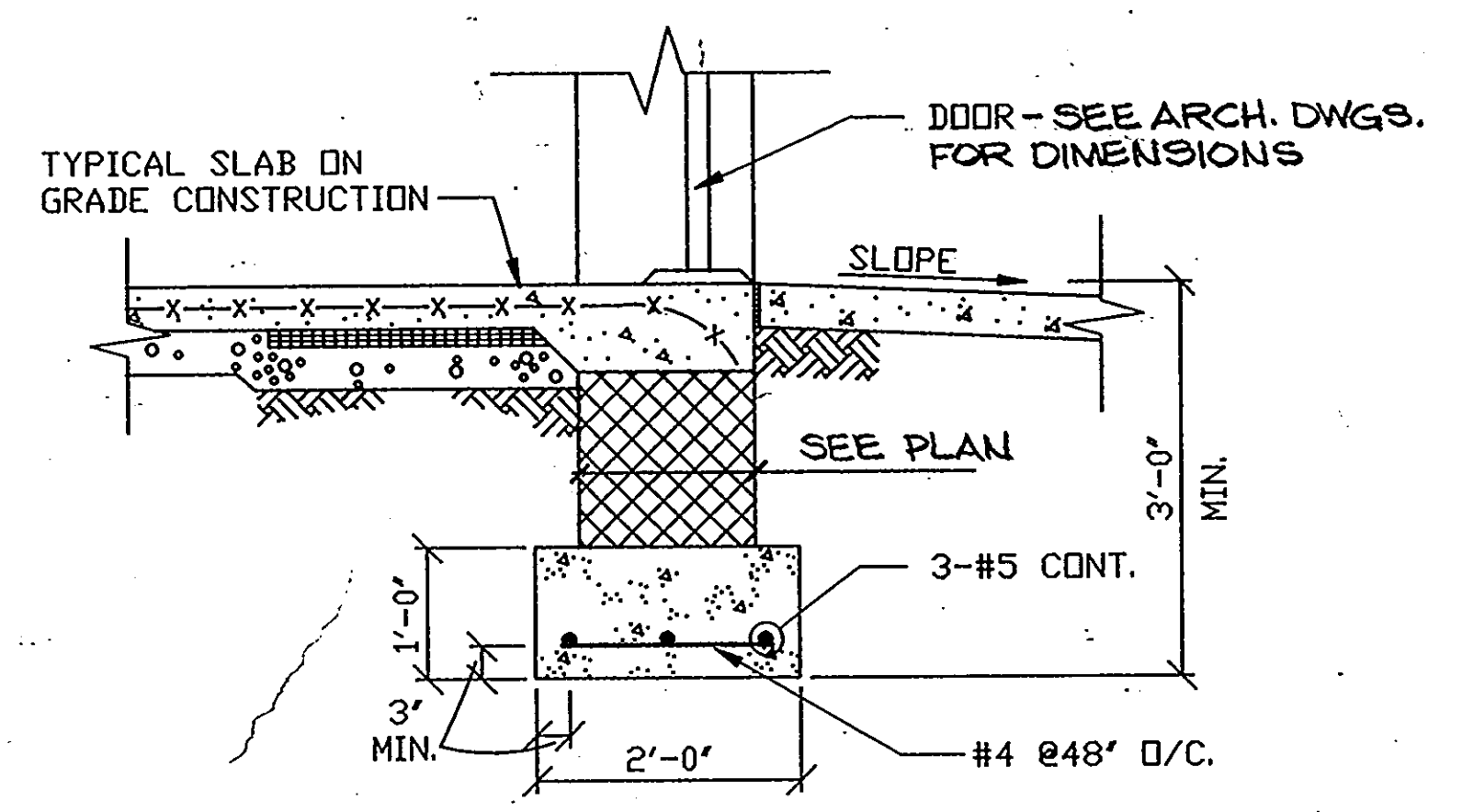
SECTION **4** **4A**
S3.2 S3.2



TYPICAL INTERIOR COLUMN FOOTING DETAIL **7**
S3.2



TYPICAL COLUMN ON STEEL BEAM DETAIL **5**
S3.2



TYPICAL SECTION AT DOOR **6**
S3.2

ARCHITECTURAL TECHNOLOGIES INC.
 Architects and Construction Consultants
 9192 Red Branch Rd. Suite 300
 Columbia, MD, 21045 (301) 995-4067

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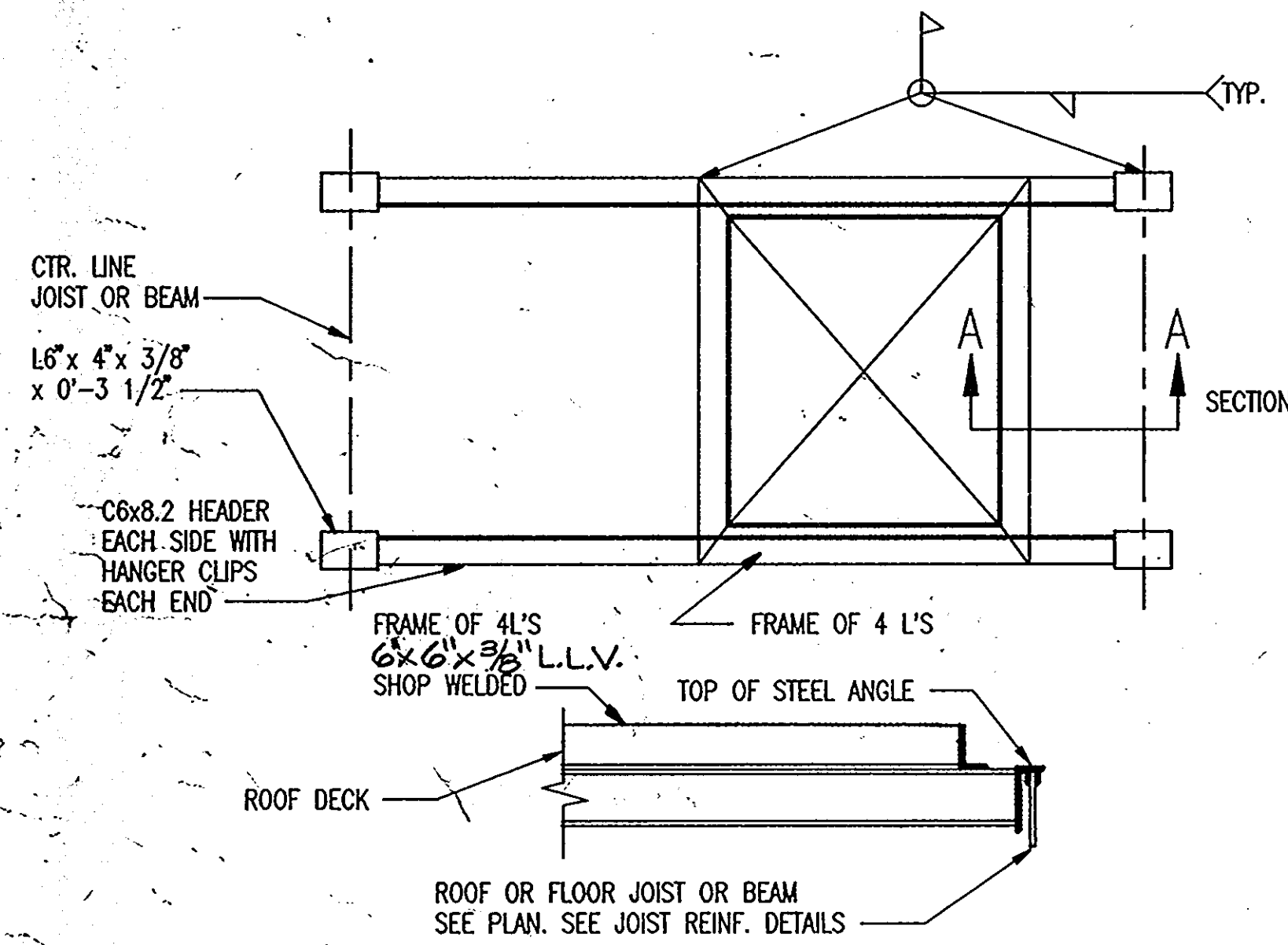
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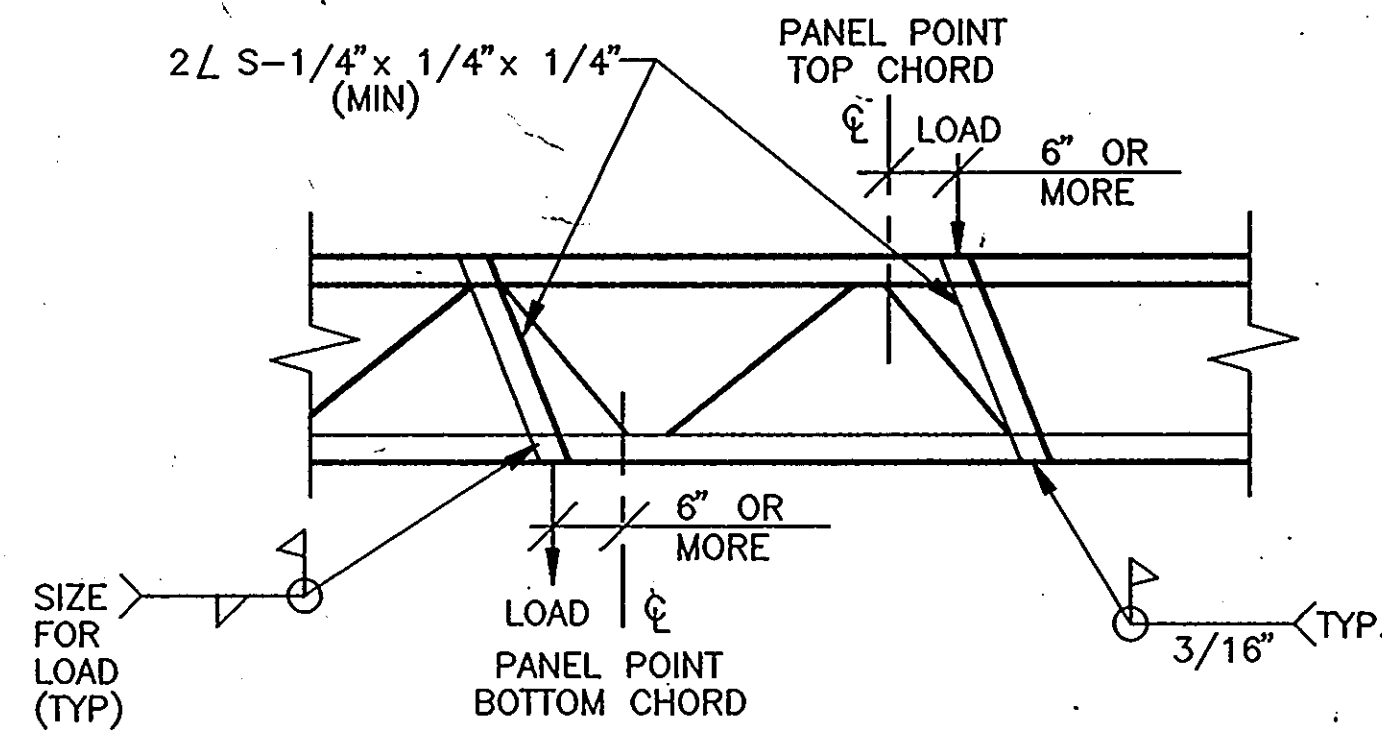
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 (301) 689-1993

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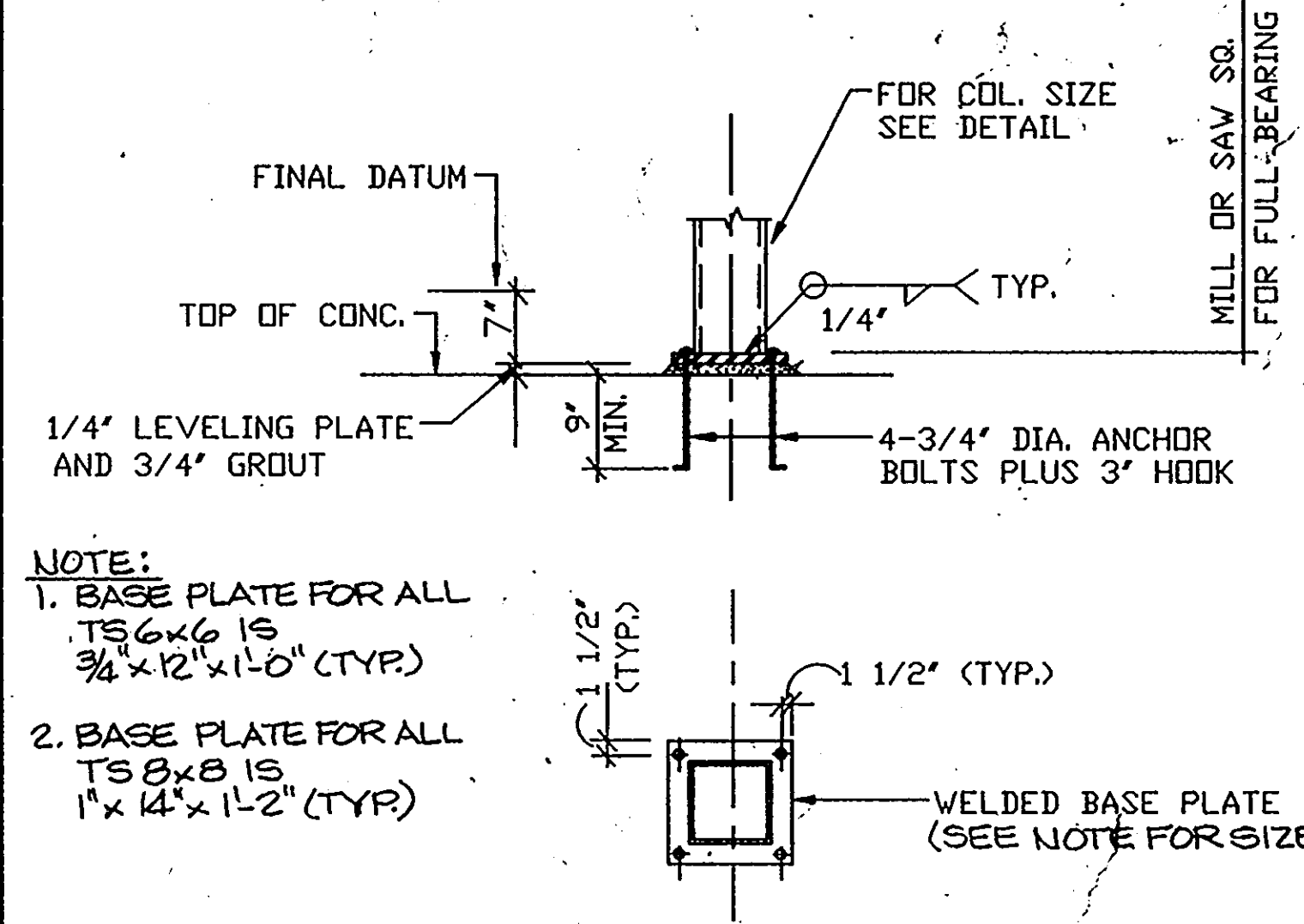
SECTIONS AND DETAILS		46 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. 83-0222
SCAGGSVILLE ANNEX 11228 ROUTE 216 LAUREL, MD, 20707		DATE: 3-25-92
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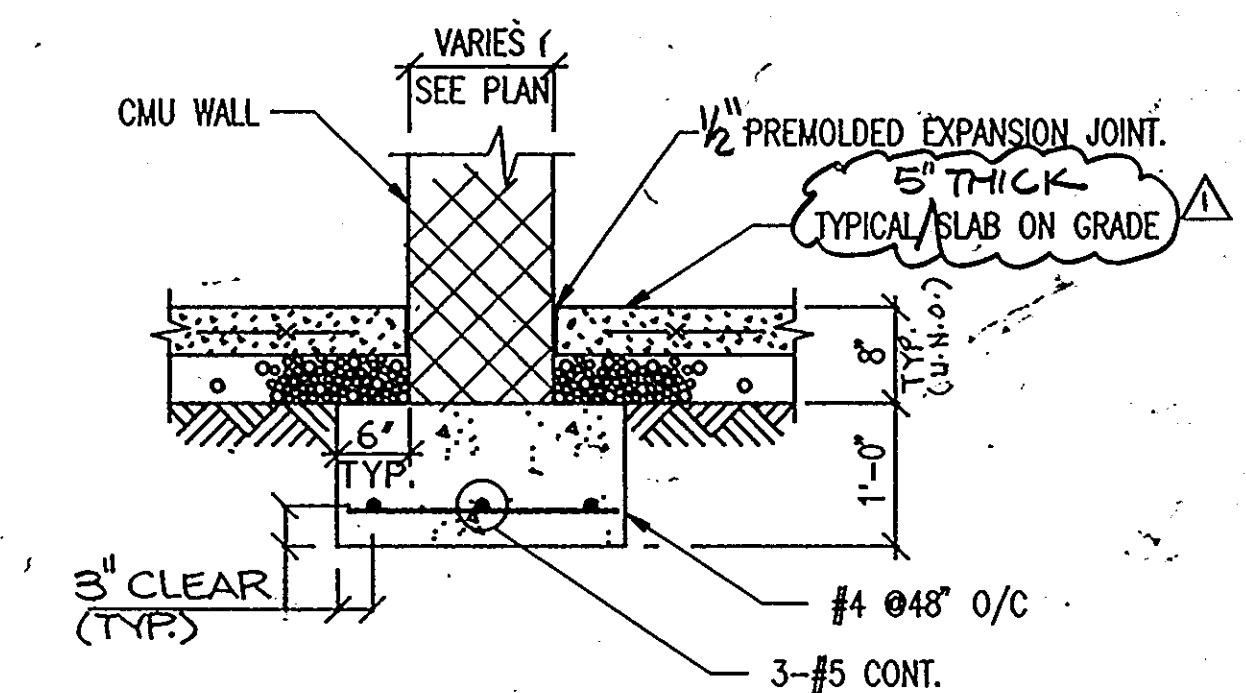
TYPICAL MECHANICAL OPEN DETIAL SECTION A-A 1 S3.3



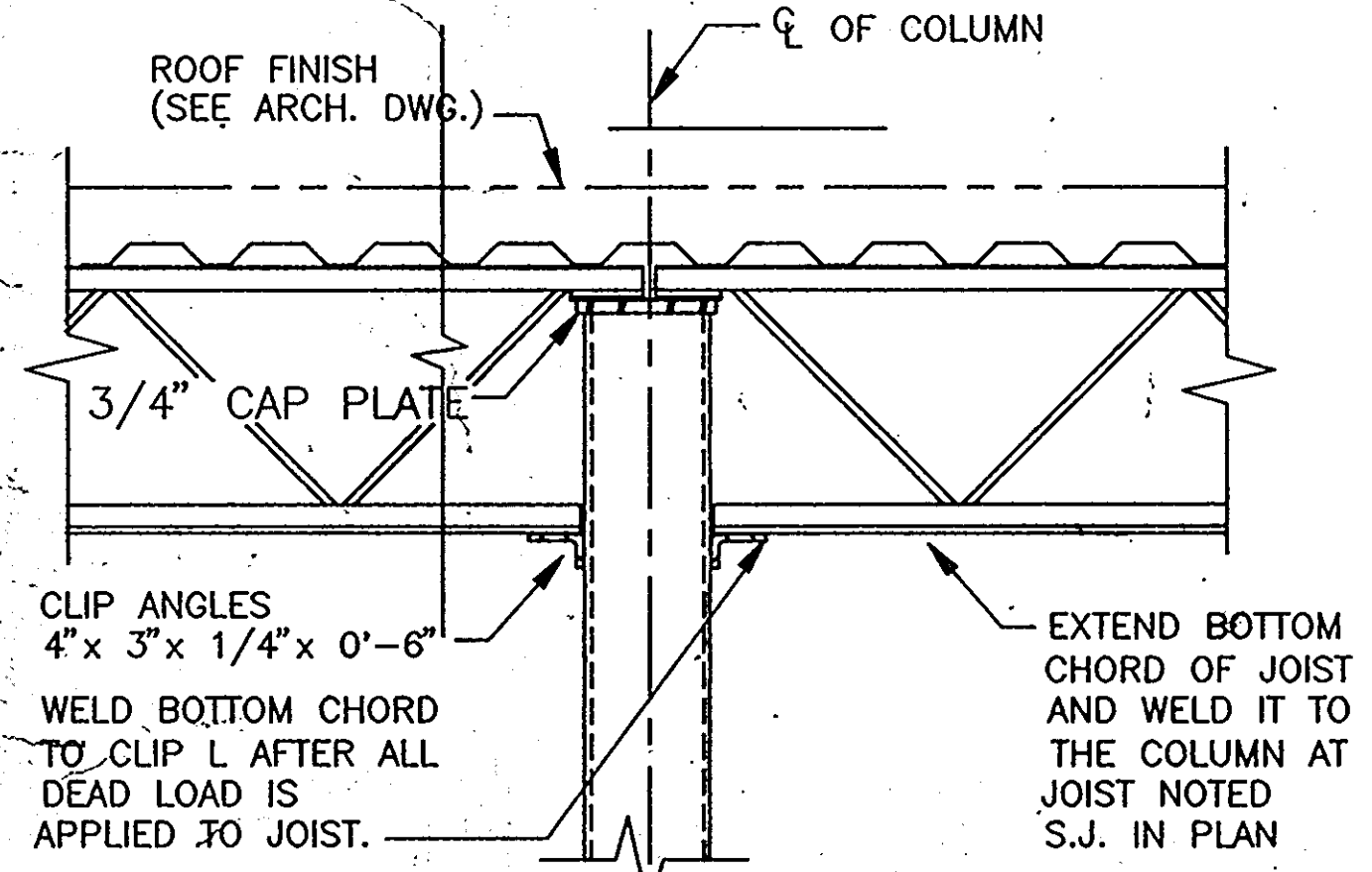
WHERE LOADS ARE APPLIED TO JOIST BETWEEN PANEL POINTS, REINFORCE AS SHOWN. LOADS INCLUDE BUT ARE NOT LIMITED TO MECHANICAL EQUIPMENT AND PIPES. (SUBJECT TO APPROVAL BY STRUCTURAL ENGINEER.)
TYPICAL JOIST REINFORCEMENT DETAIL 2 S3.3



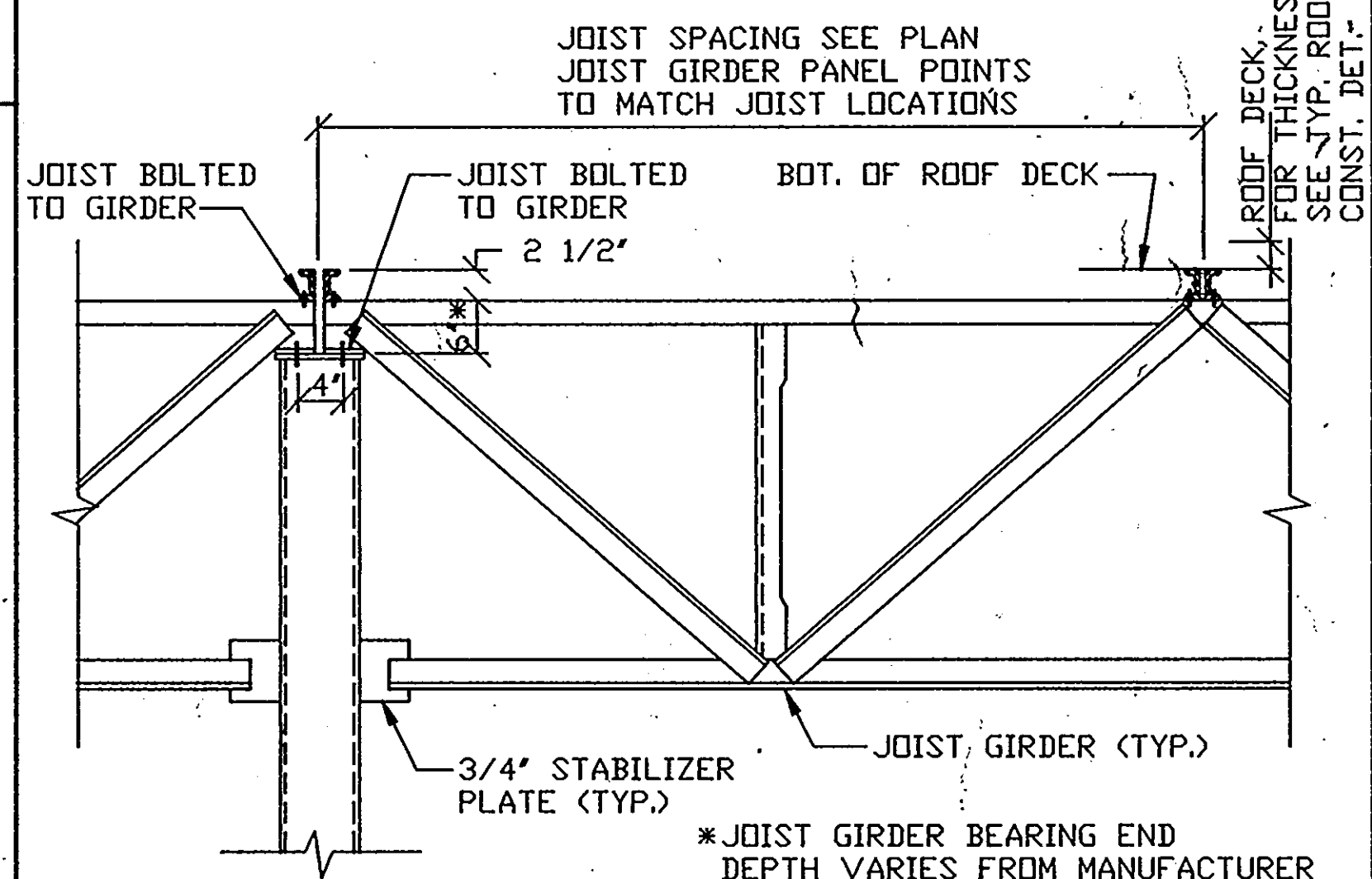
NOTE:
1. BASE PLATE FOR ALL TS 6x6 IS 3/4 x 12' x 1'-0" (TYP.)
2. BASE PLATE FOR ALL TS 8x8 IS 1" x 14' x 1'-2" (TYP.)
TYPICAL TUBE COLUMN BASE DETAIL (4 A.B.) 3 S3.3



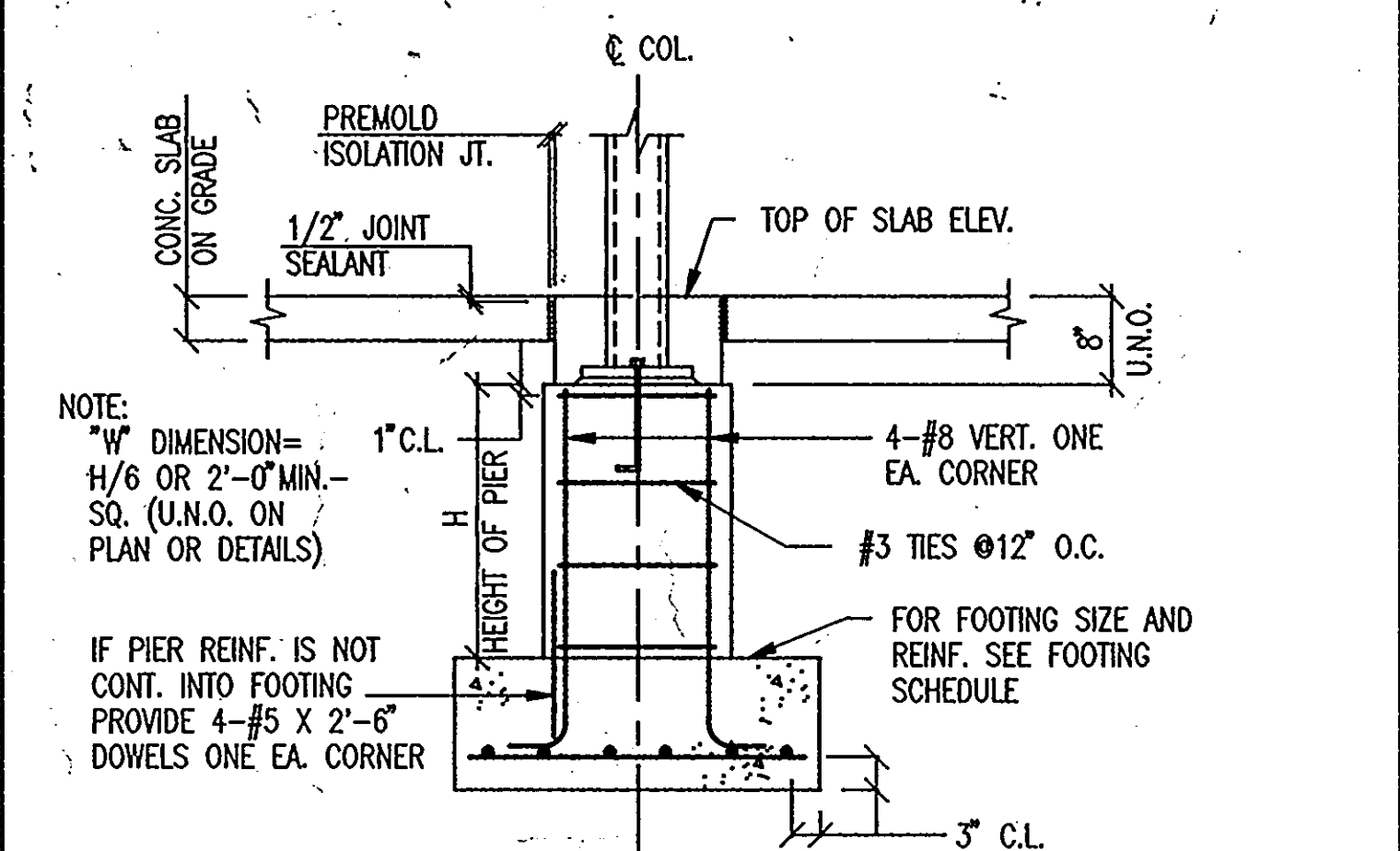
SECTION 4 TYP AT SHEARWALL S3.3



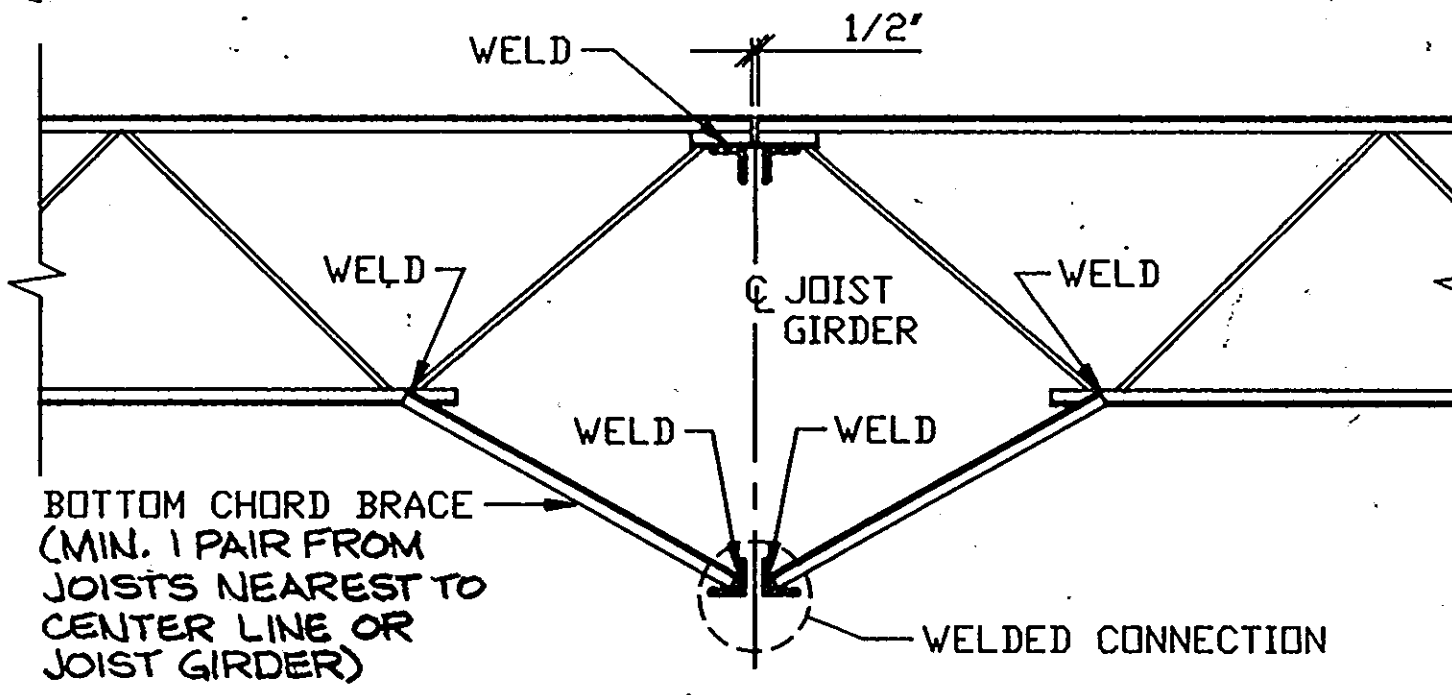
TYPICAL STRUT JOIST TO COLUMN NOT TO SCALE 5 S3.3



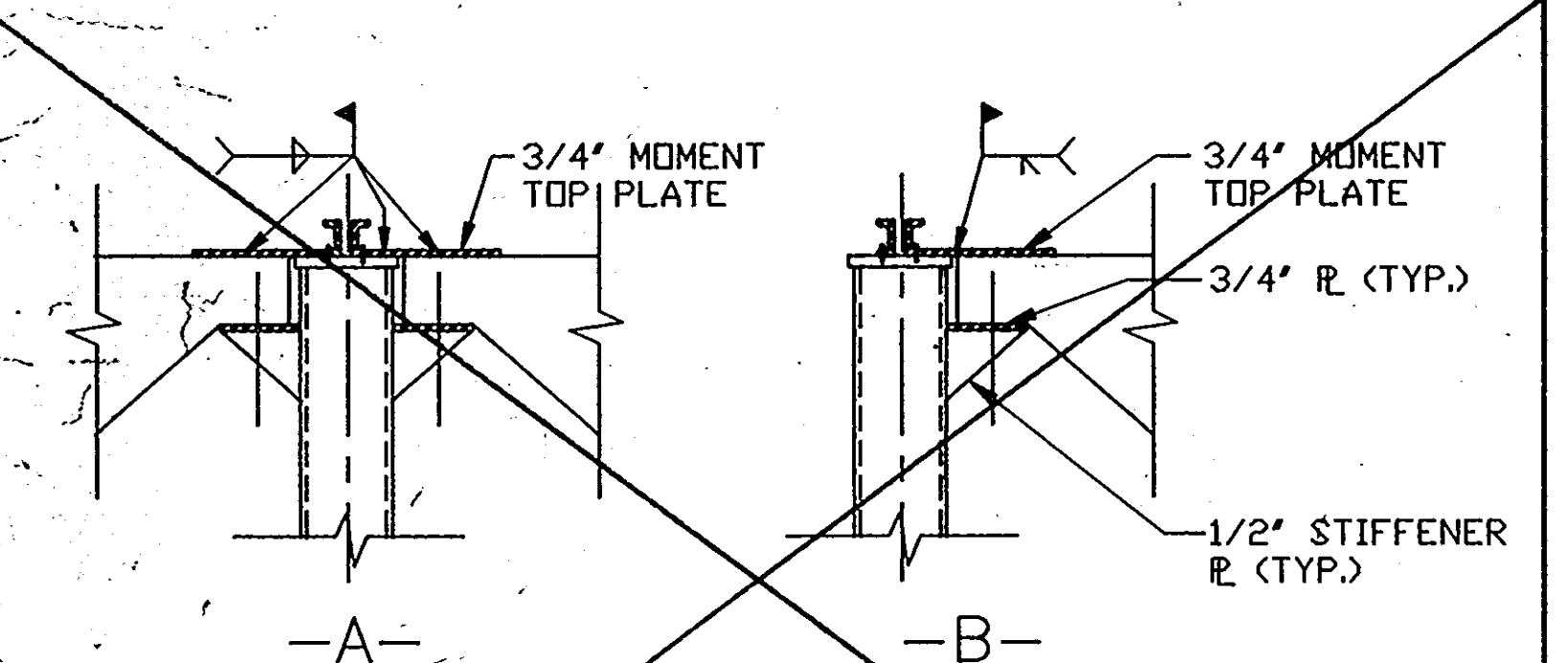
UN.D. JOIST GIRDER TO COLUMN DETAIL 6 S3.3



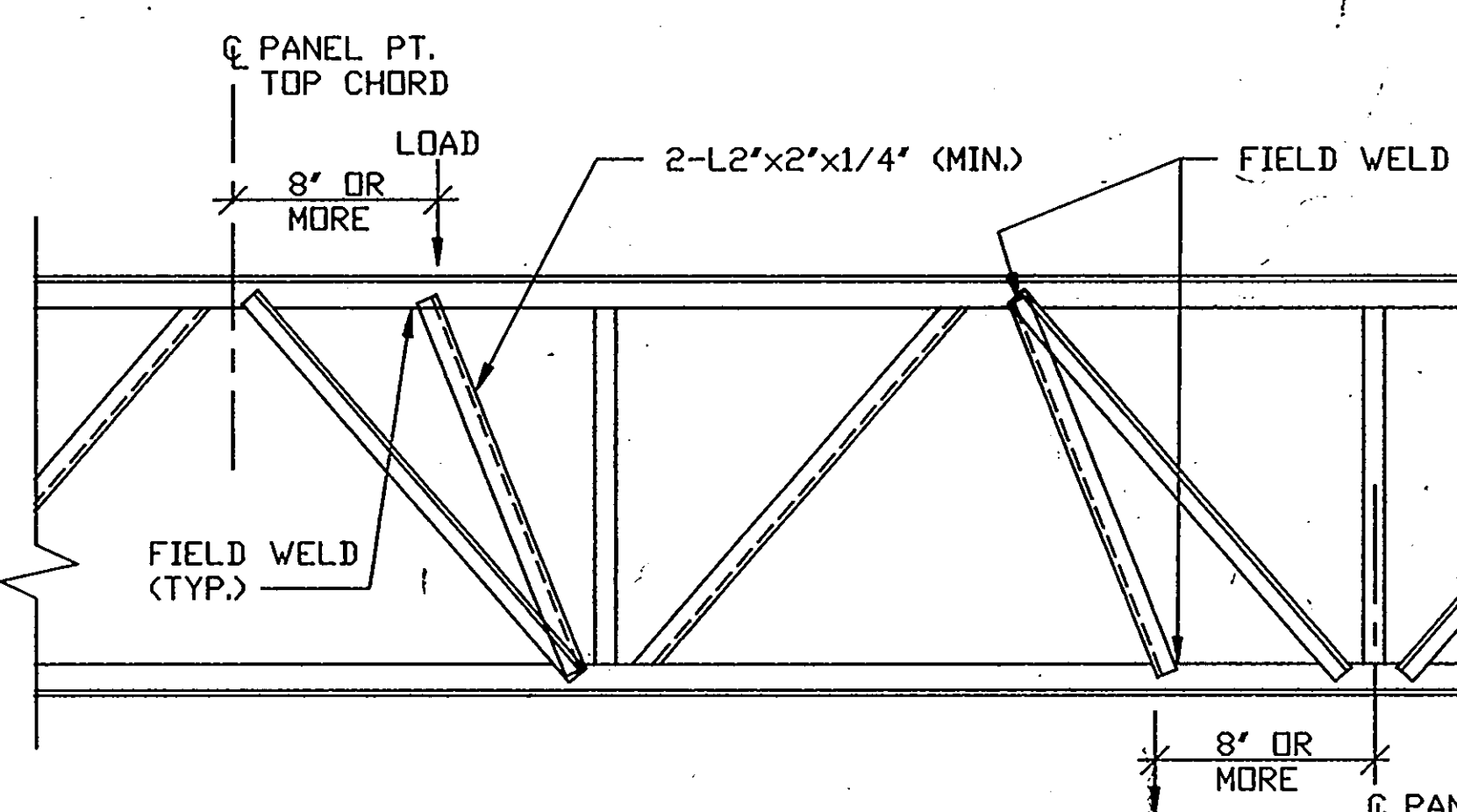
NOTE: "H" DIMENSION = H/6 OR 2'-0" MIN. - SQ. (U.N.O. ON PLAN OR DETAILS)
IF PIER REINF. IS NOT CONT. INTO FOOTING PROVIDE 4-#5 X 2'-6" DOWELS ONE EA. CORNER
TYPICAL INTERIOR COLUMN FOOTING WITH COLUMN PIER 7 S3.3



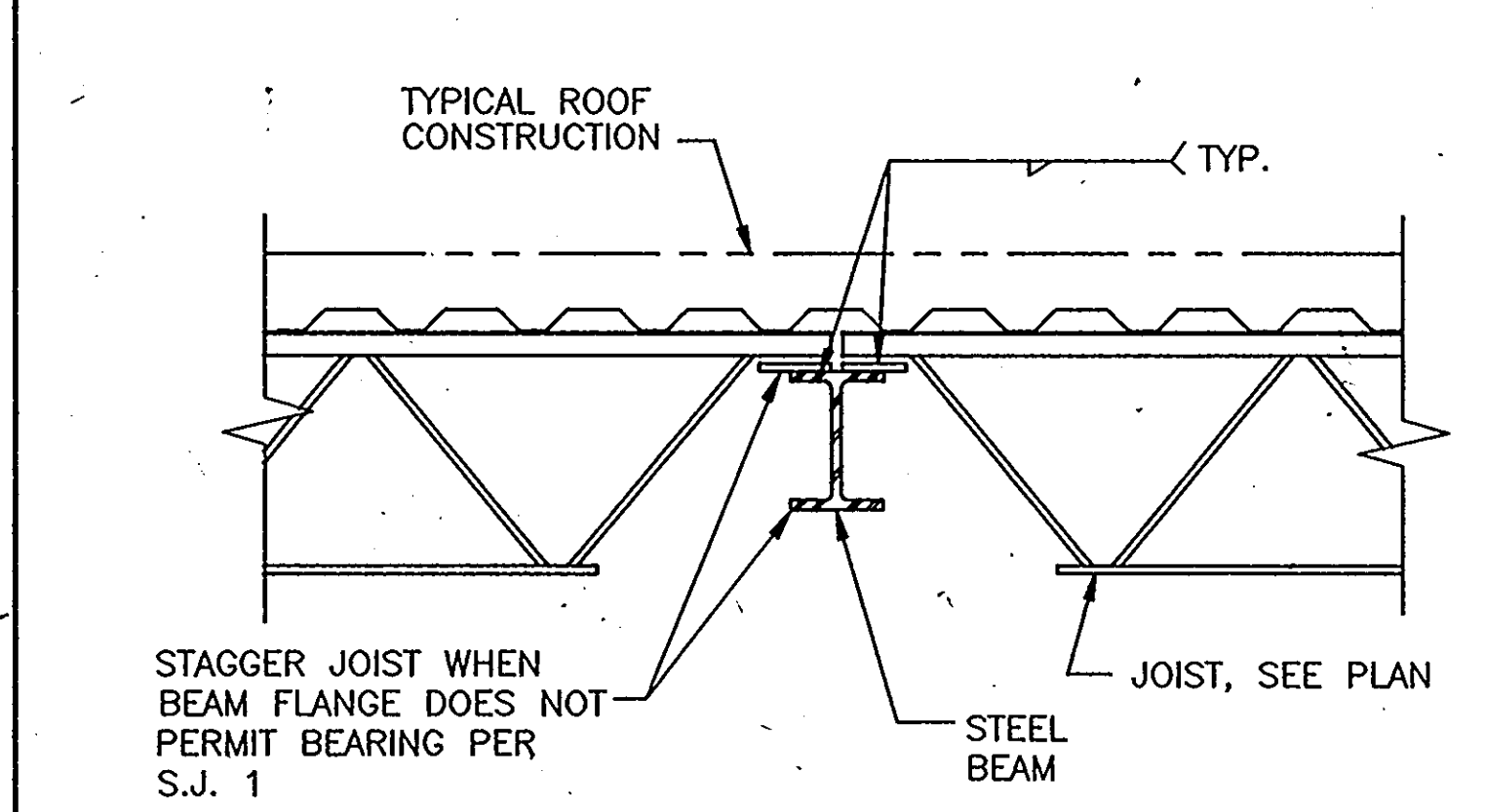
JOIST GIRDER BOTTOM CHORD BRACE DETAIL 8 S3.3



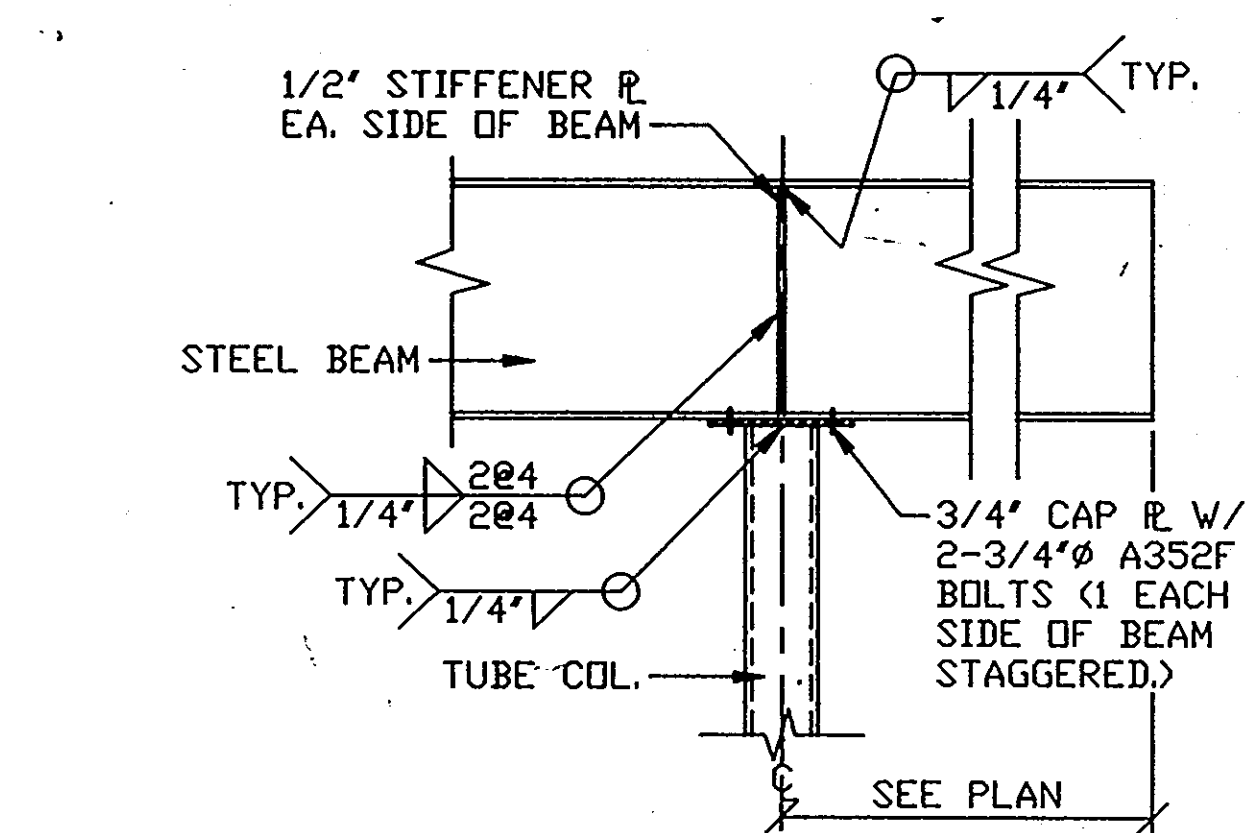
TYPICAL JOIST GIRDER MOMENT CONNECTION DETAILS 9 S3.3



TYPICAL JOIST GIRDER REINFORCING IN FIELD DETAIL (FOR OFF PANEL POINT LOADS) 10 S3.3



TYPICAL STEEL JOIST ON BEAM NOT TO SCALE 11 S3.3



TYPICAL CANTILEVER BEAM DETAIL 12 S3.3

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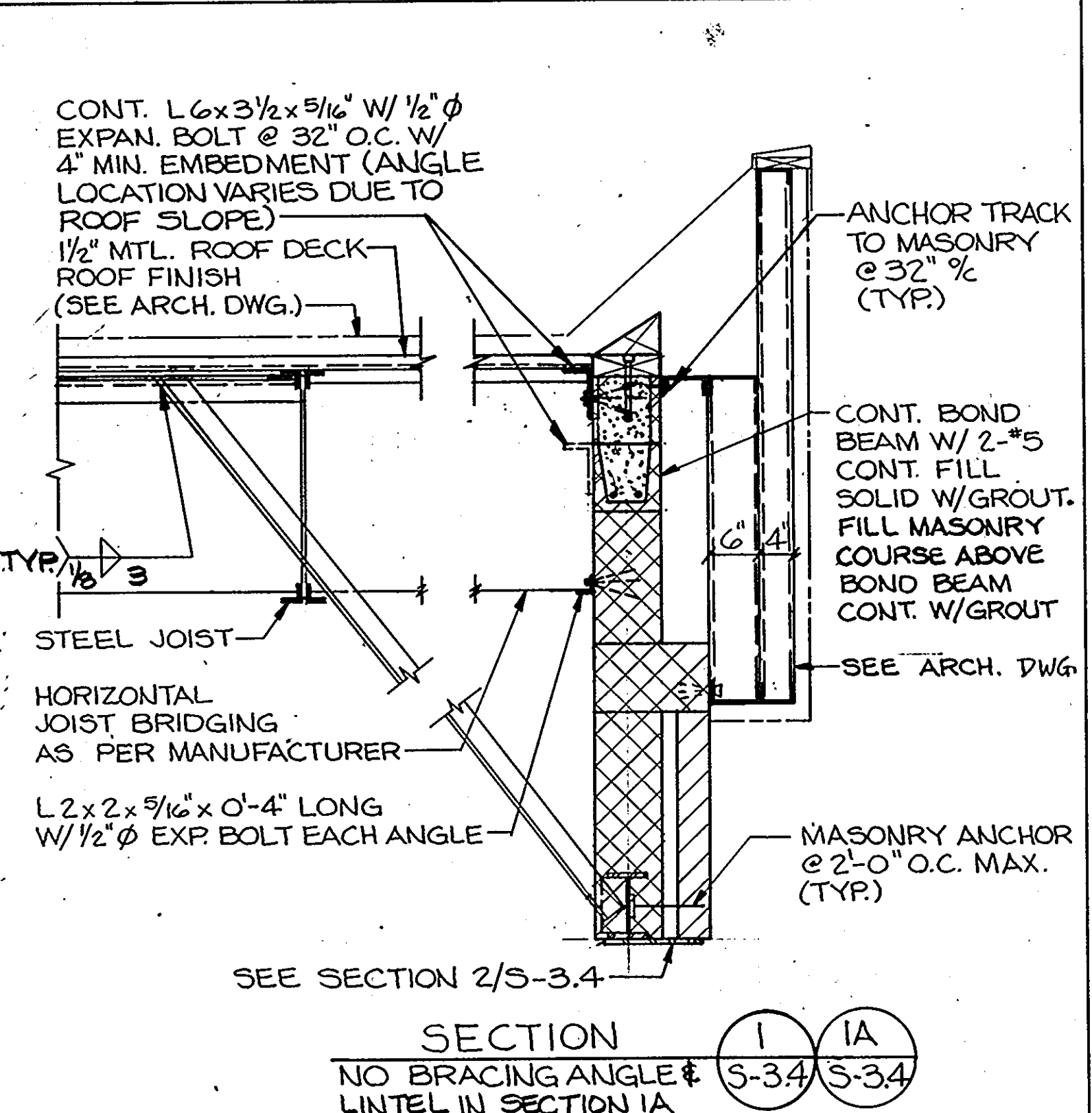
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QODESH ENGINEERING SERVICES, INC.
1011 Centre, Suite 100
3000 Chestnut Avenue
Baltimore, MD 21211
(301) 889-1903

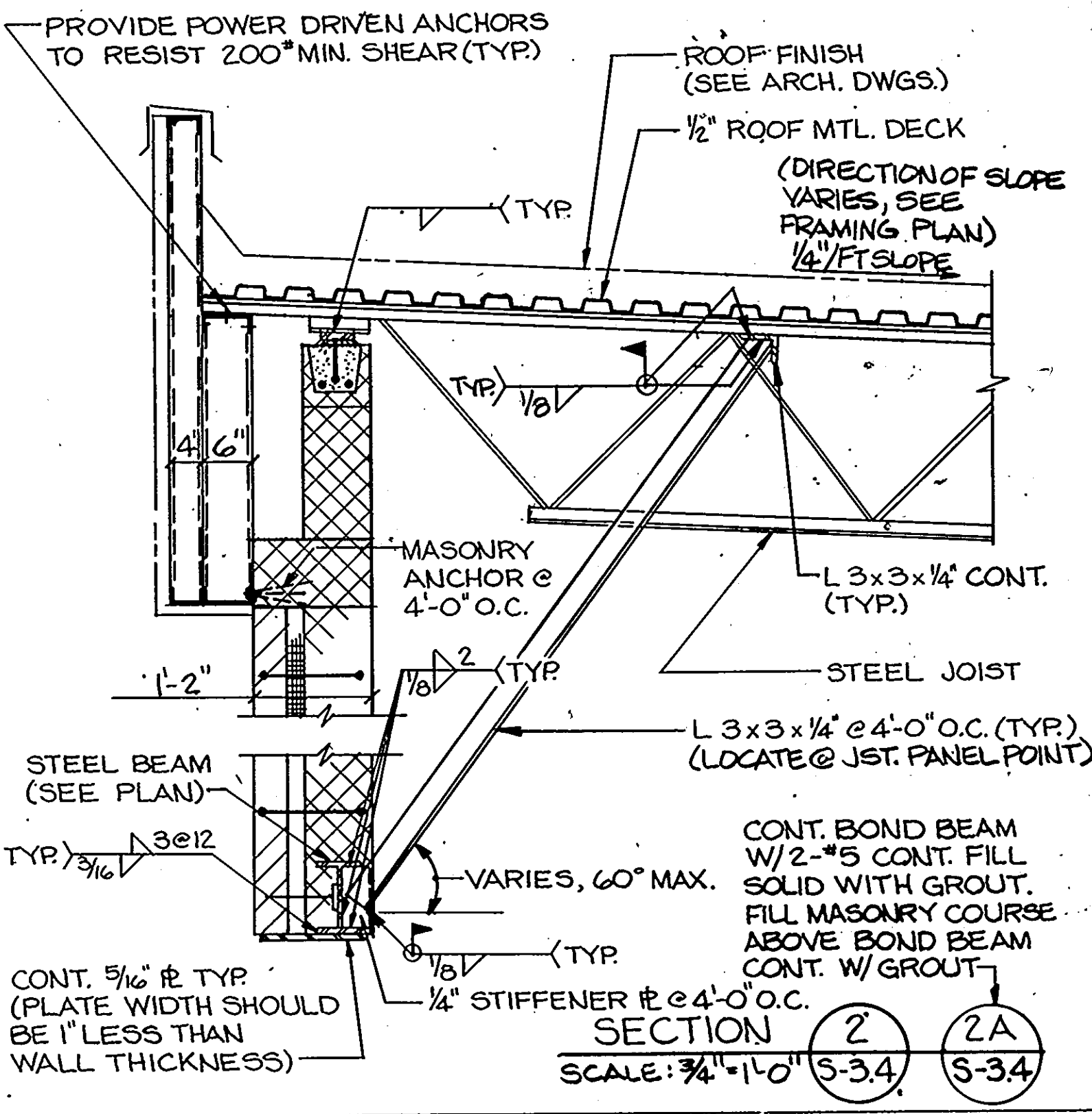
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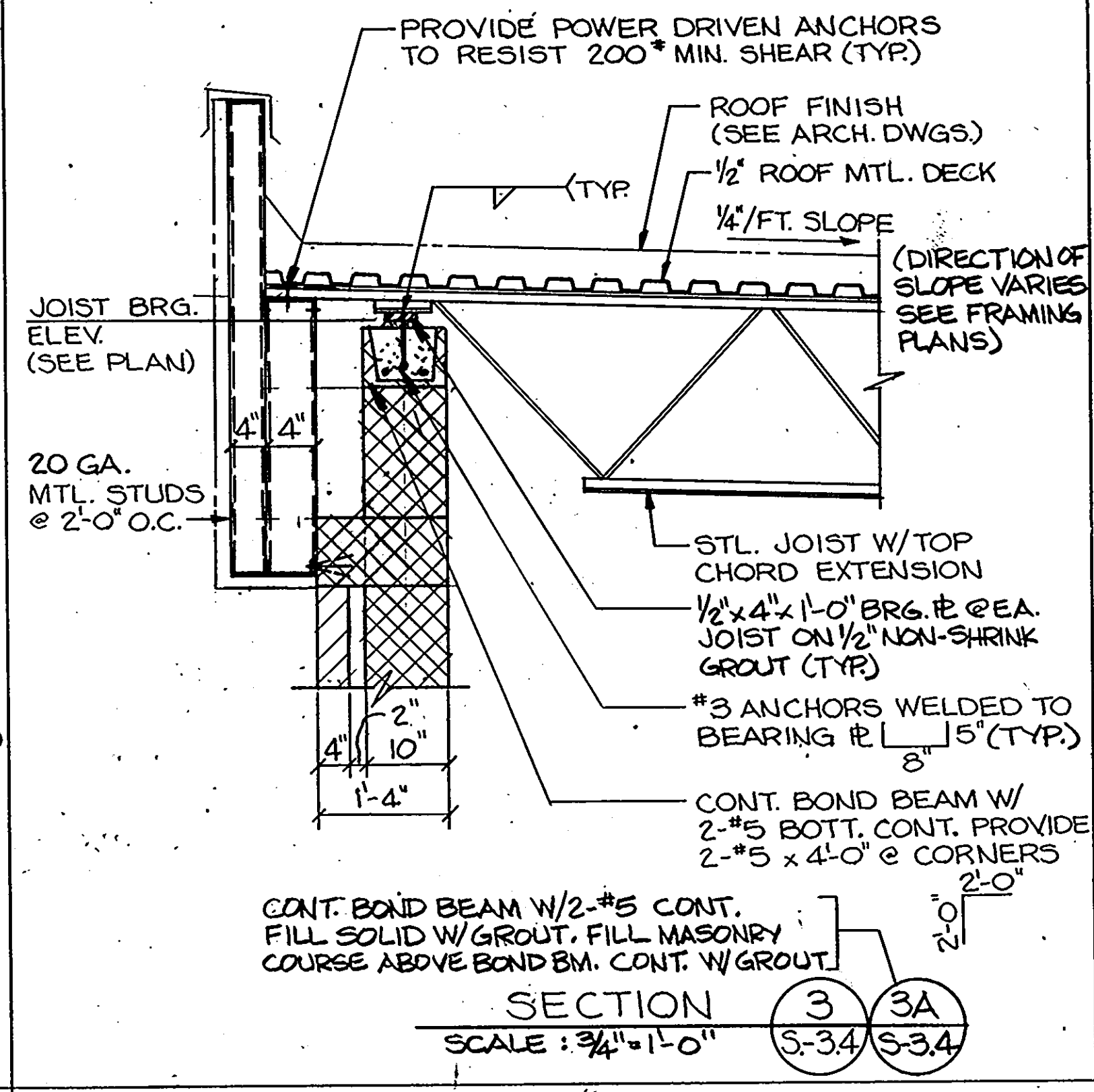
47 OF 90
CAPITAL PROJECT NO. 0227
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DRAWING NO. S 3.3



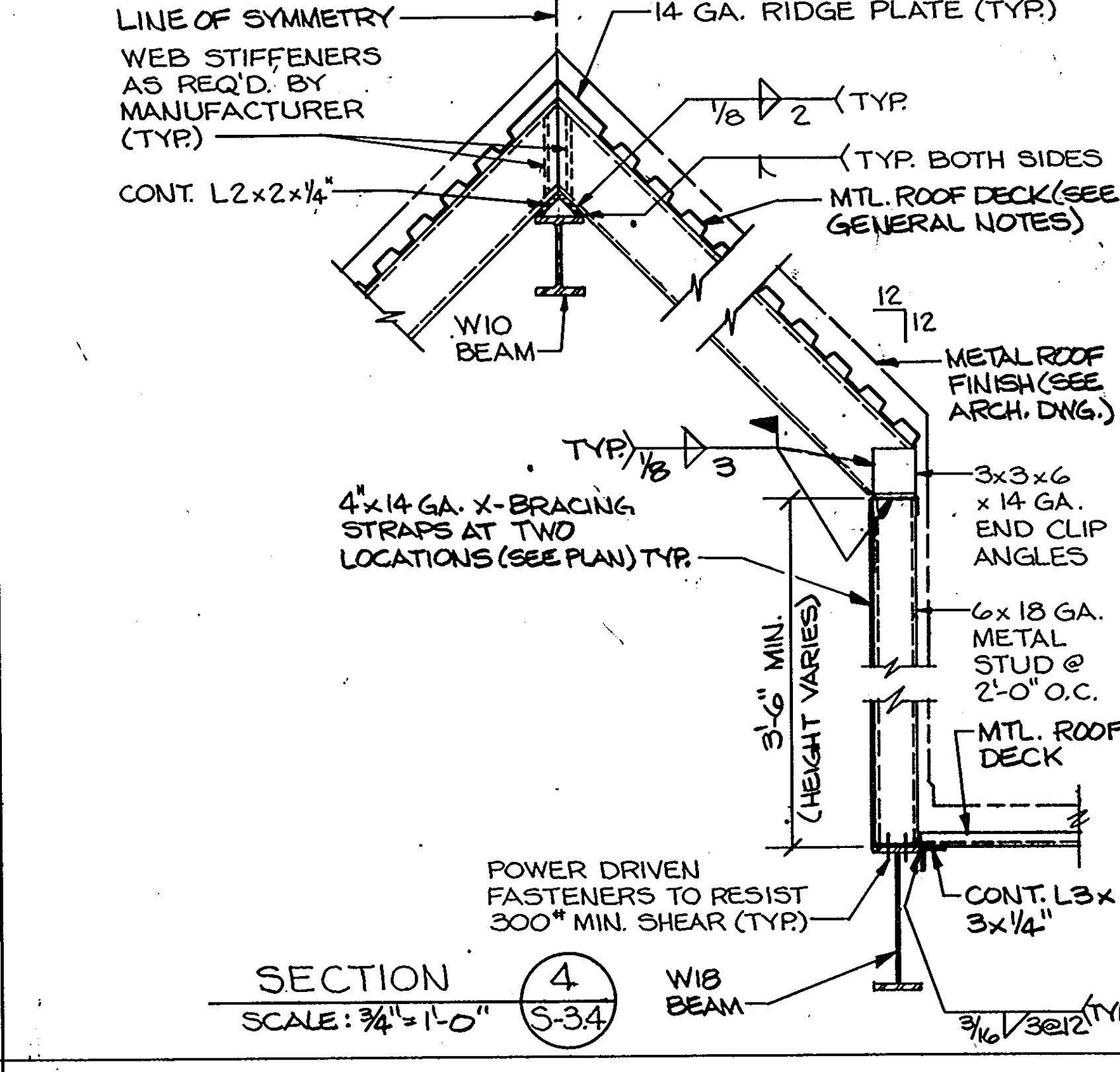
SECTION 1
NO BRACING ANGLE
LINTEL IN SECTION 1A
SCALE: 3/4" = 1'-0"



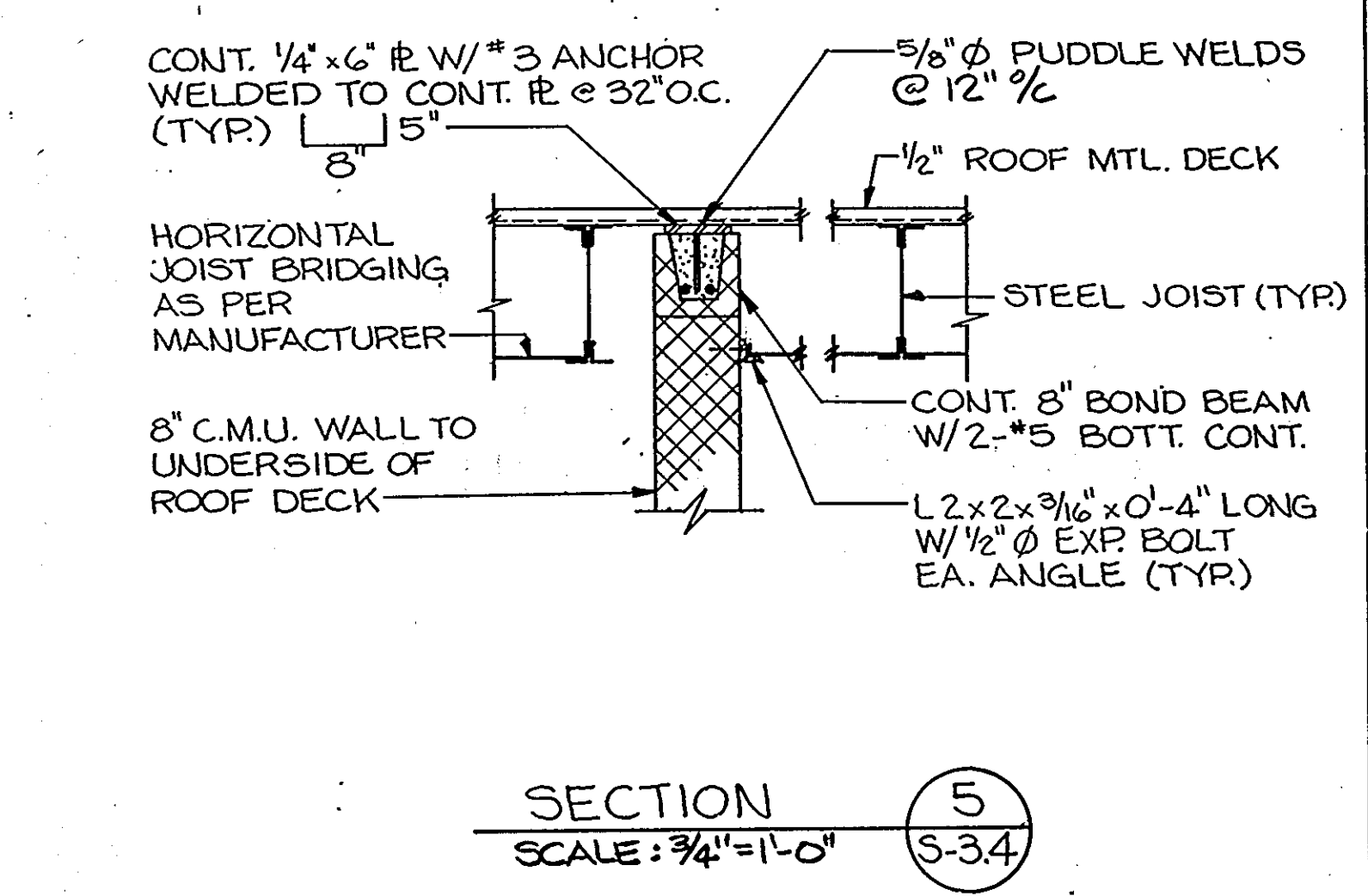
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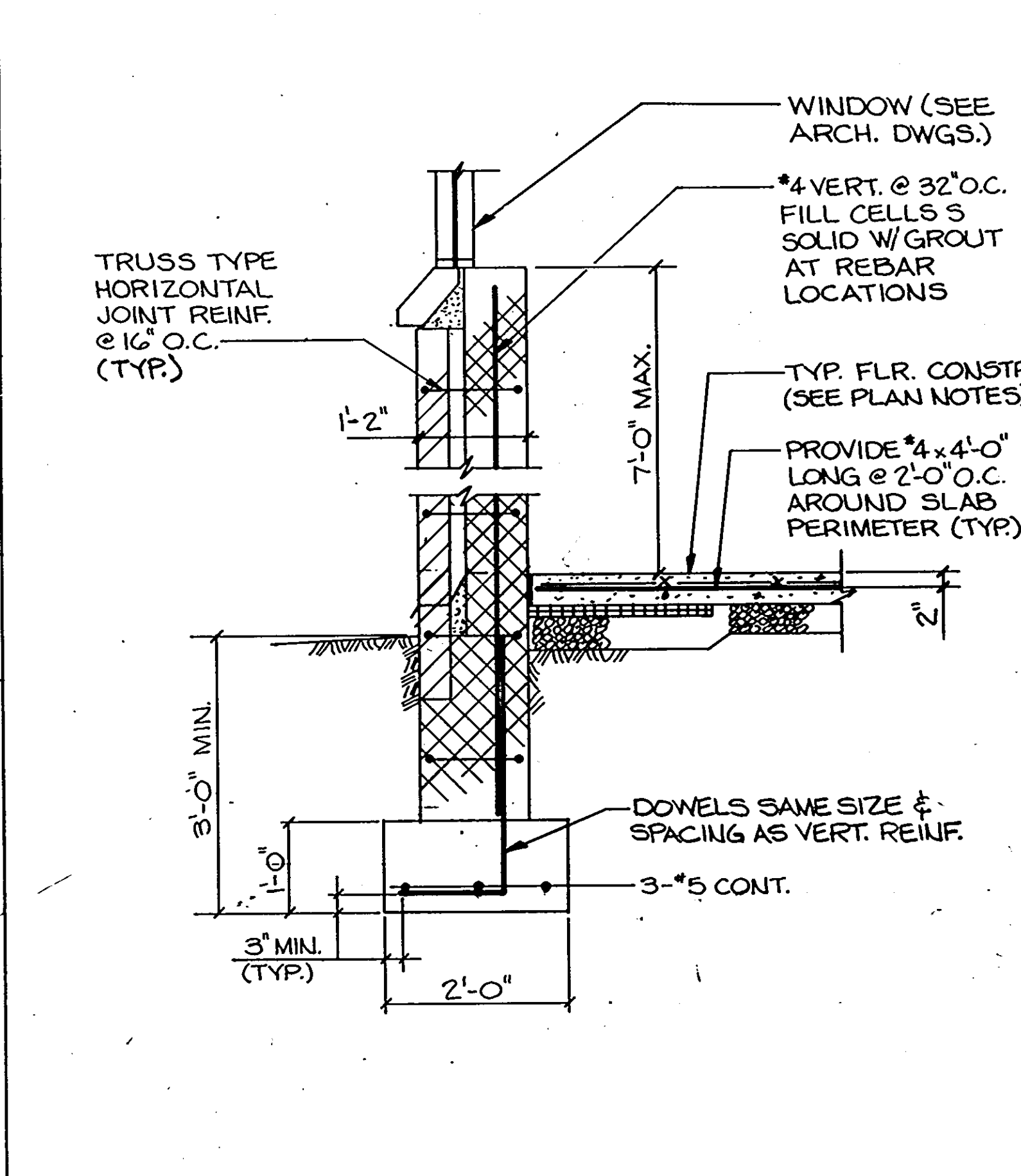
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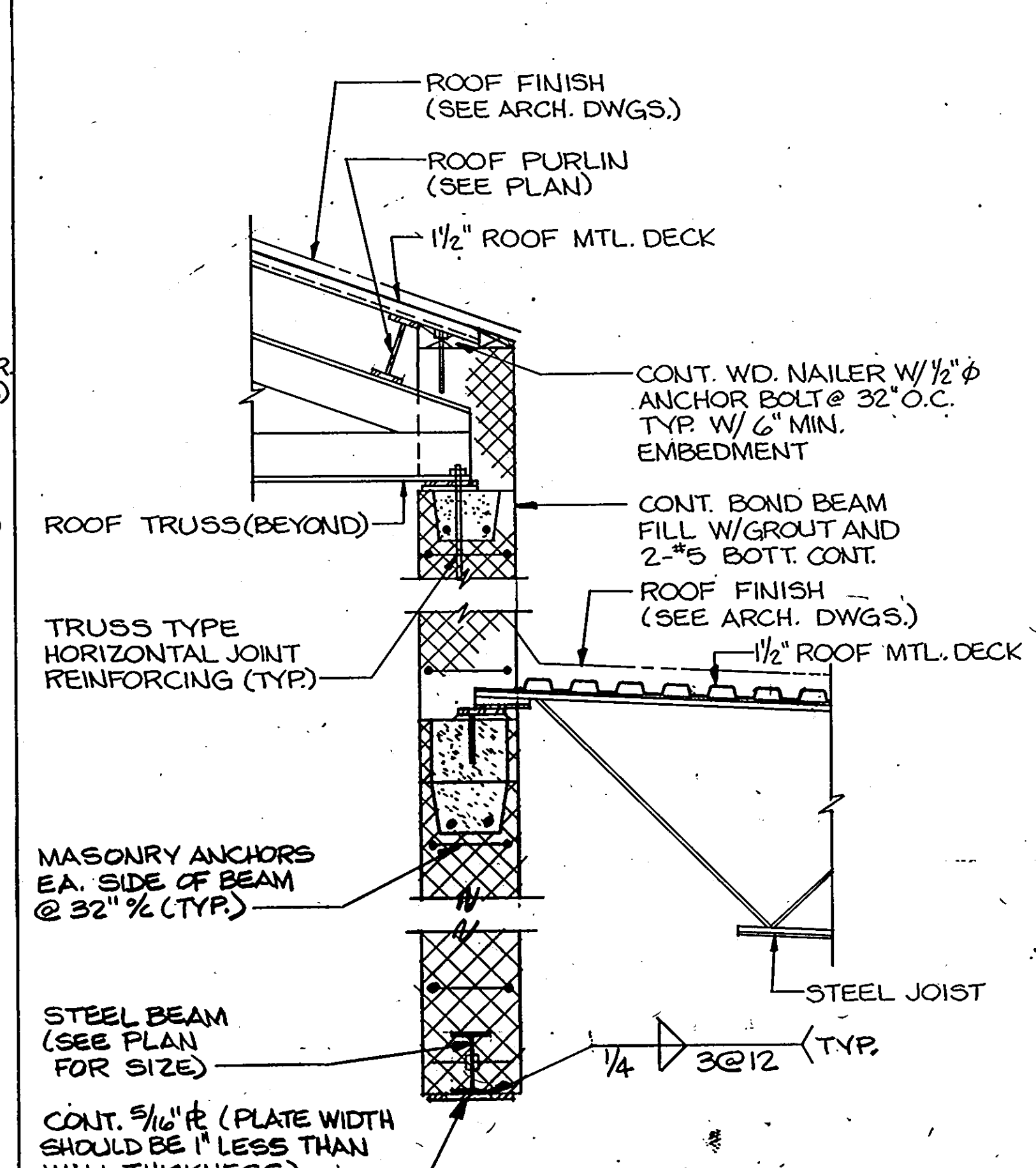
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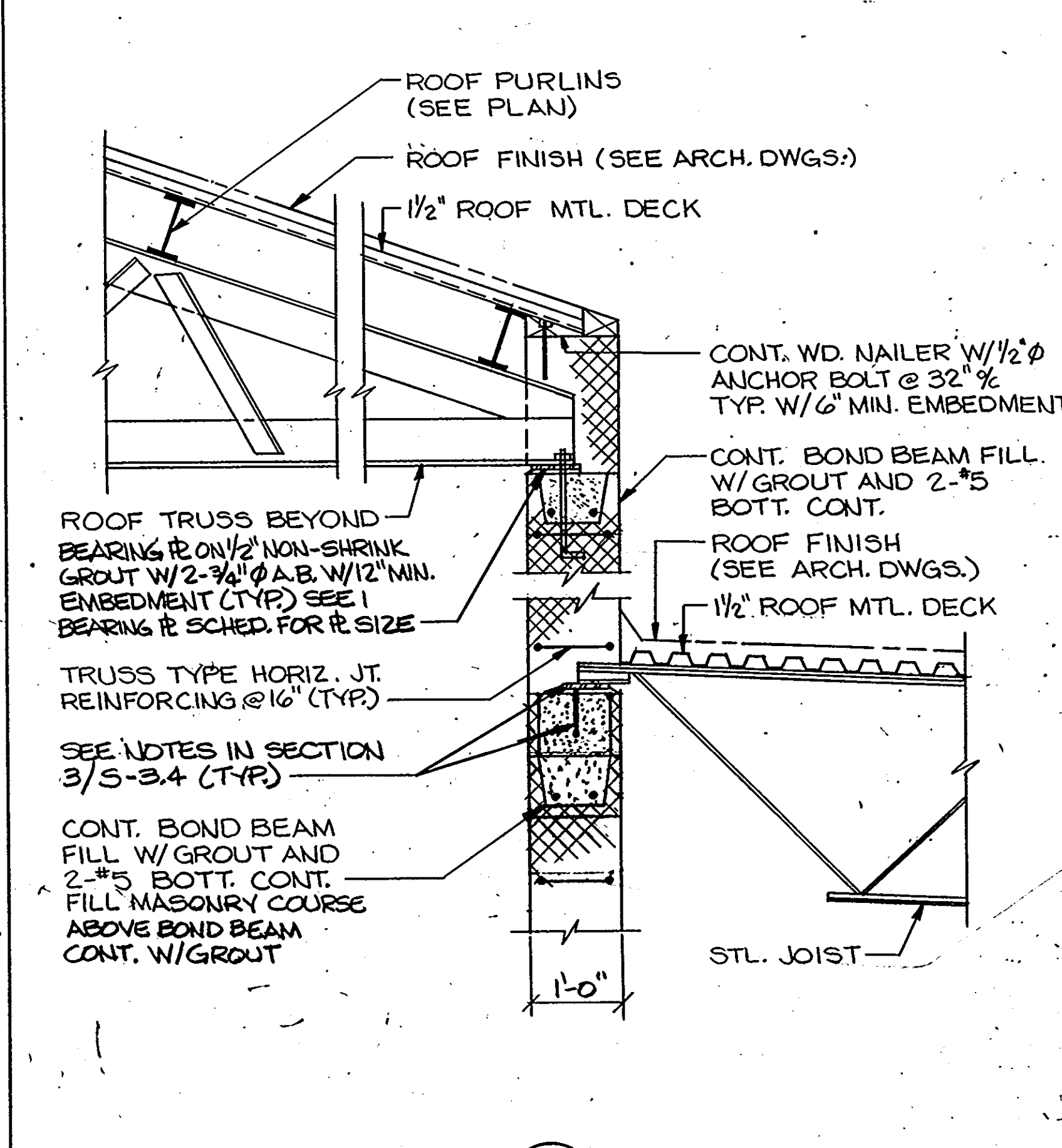
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SECTION 6
SCALE: 3/4" = 1'-0"



SECTION 7
SCALE: 3/4" = 1'-0"



SECTION 8
SCALE: 3/4" = 1'-0"

FOOTING SCHEDULE

MARK	SIZE	DEPTH	REINFORCING	REMARKS
F-1	5'-0" x 5'-0"	12"	4-#5 BOTTOM EACH WAY.	SOIL BEARING CAPACITY 2000 P.S.F.
F-2	5'-6" x 5'-6"	12"	5-#5 BOTTOM EACH WAY.	DO
F-3	6'-0" x 6'-0"	12"	6-#5 BOTTOM EACH WAY.	DO
F-4	6'-6" x 6'-6"	14"	7-#5 BOTTOM EACH WAY.	DO
F-5	7'-0" x 7'-0"	14"	7-#5 BOTTOM EACH WAY.	DO

1650

ARCHITECTURAL TECHNOLOGIES INC.
Architects and Construction Consultants
9192 Red Branch Rd, Suite 300
Columbia, MD, 21045 (301) 995-4067

IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER:
STRUCTURAL ENGINEER:
MECHANICAL & ELECTRICAL ENGINEER:
FIRE PROTECTION ENGINEER:

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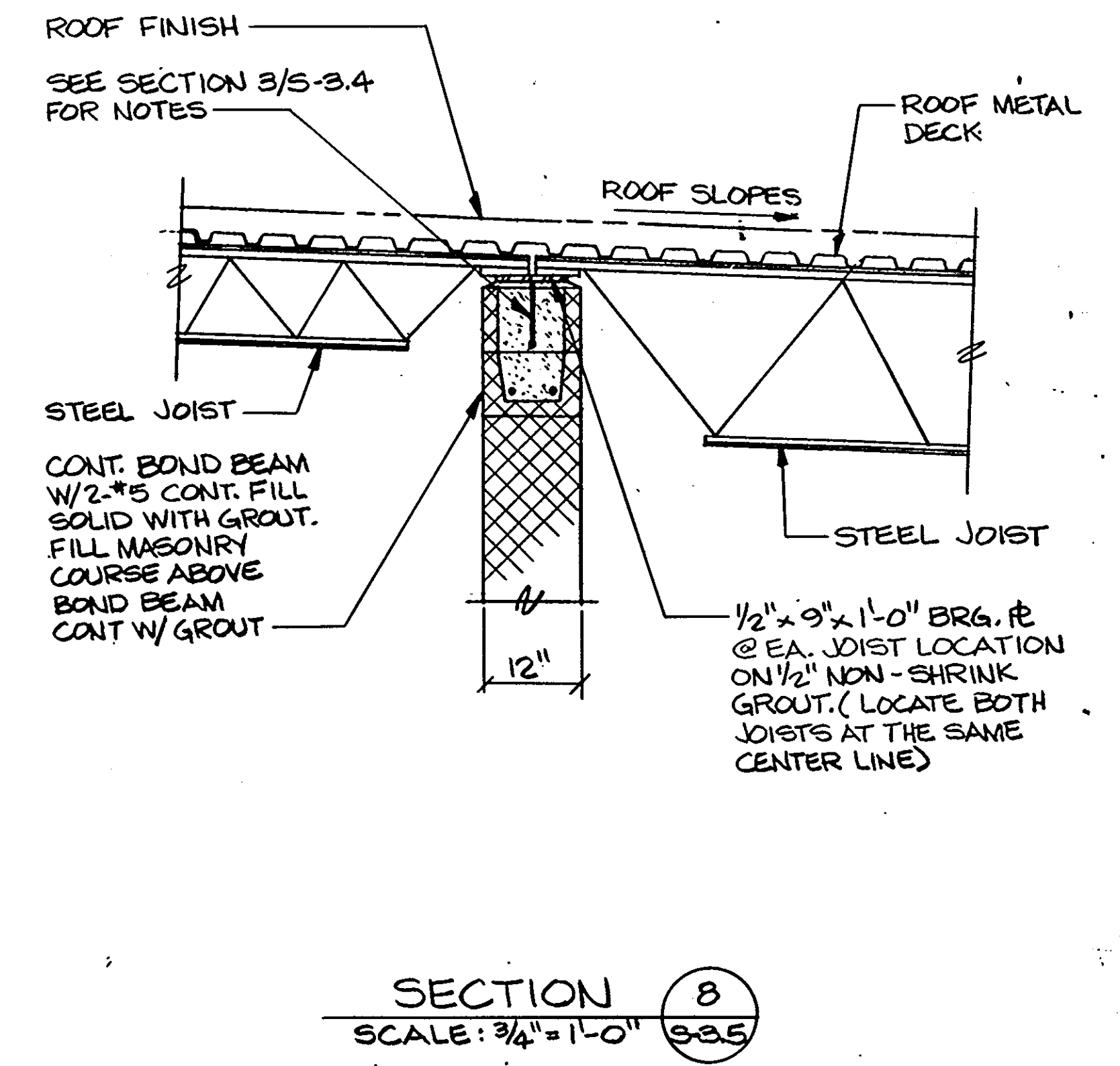
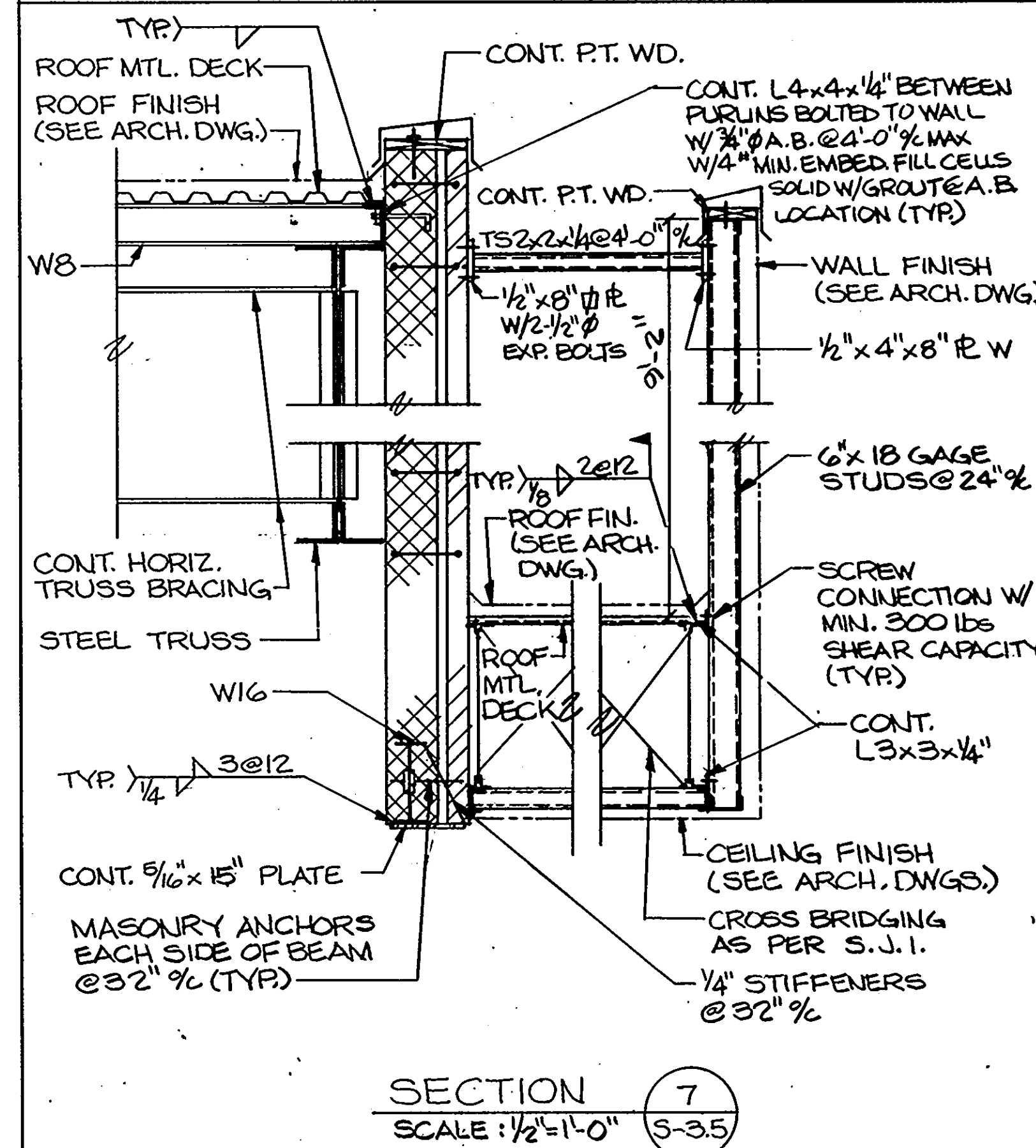
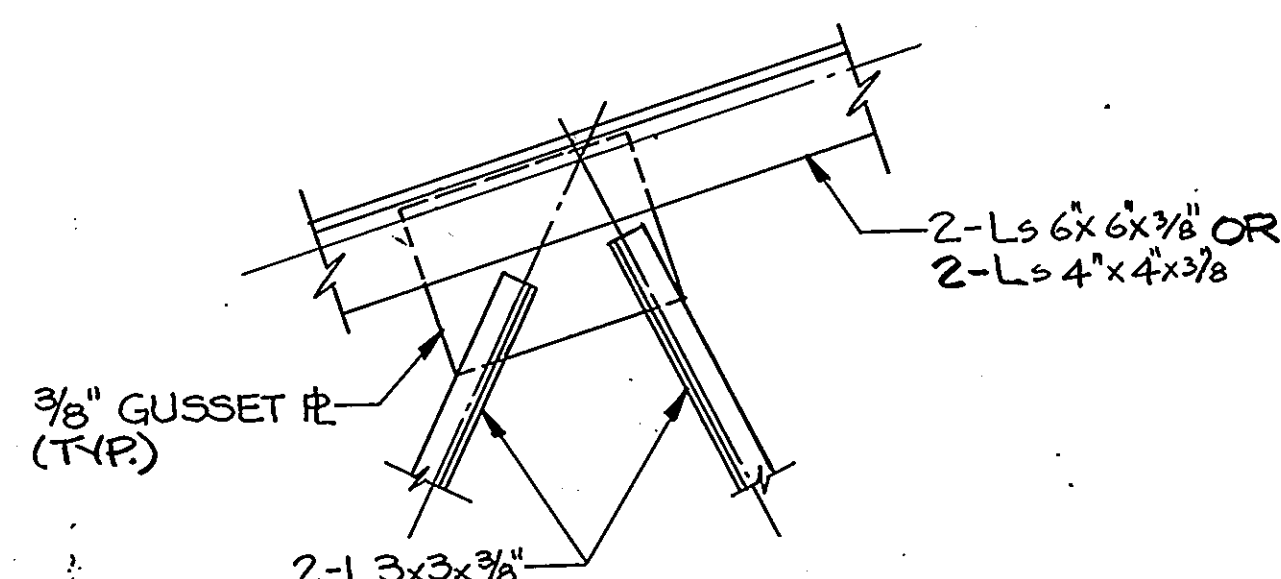
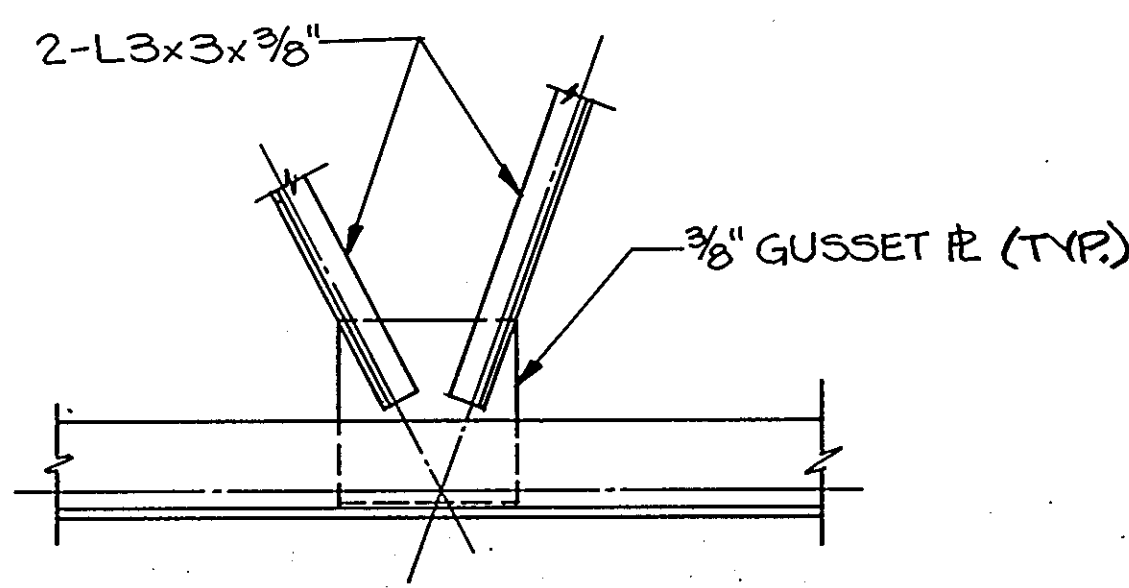
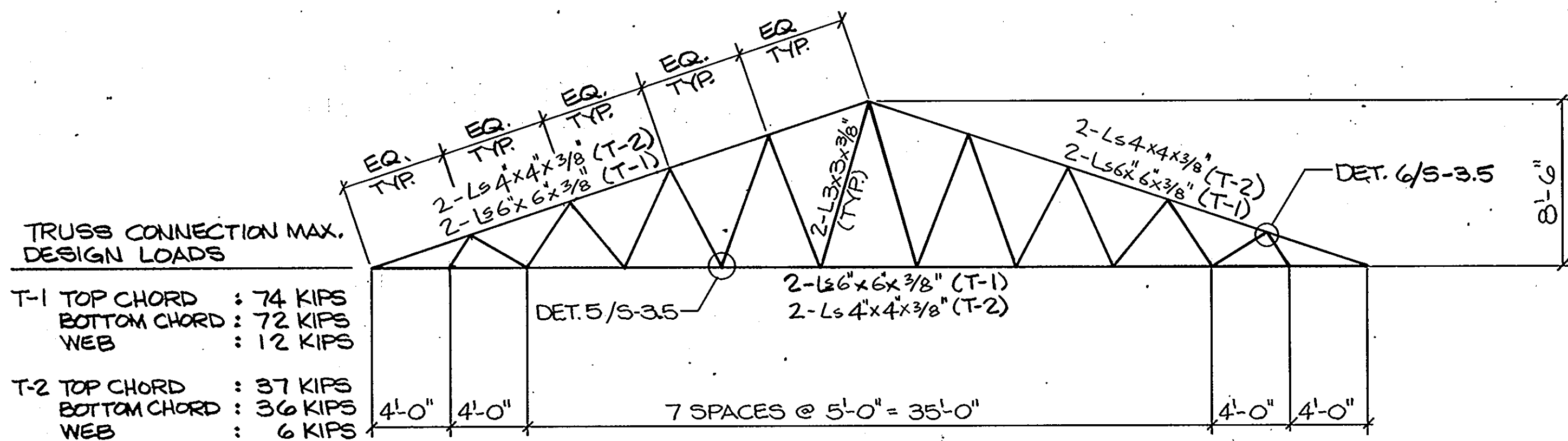
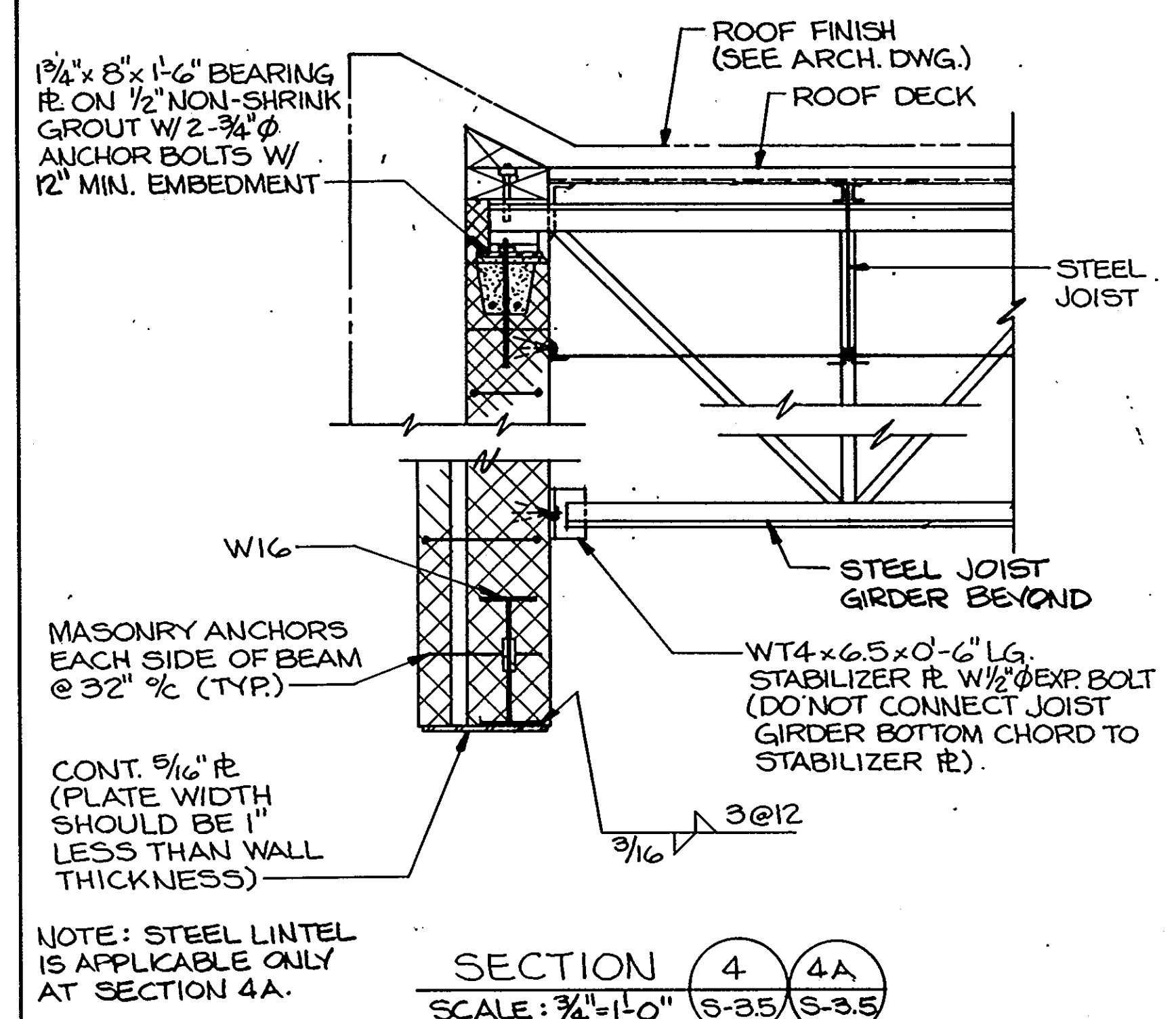
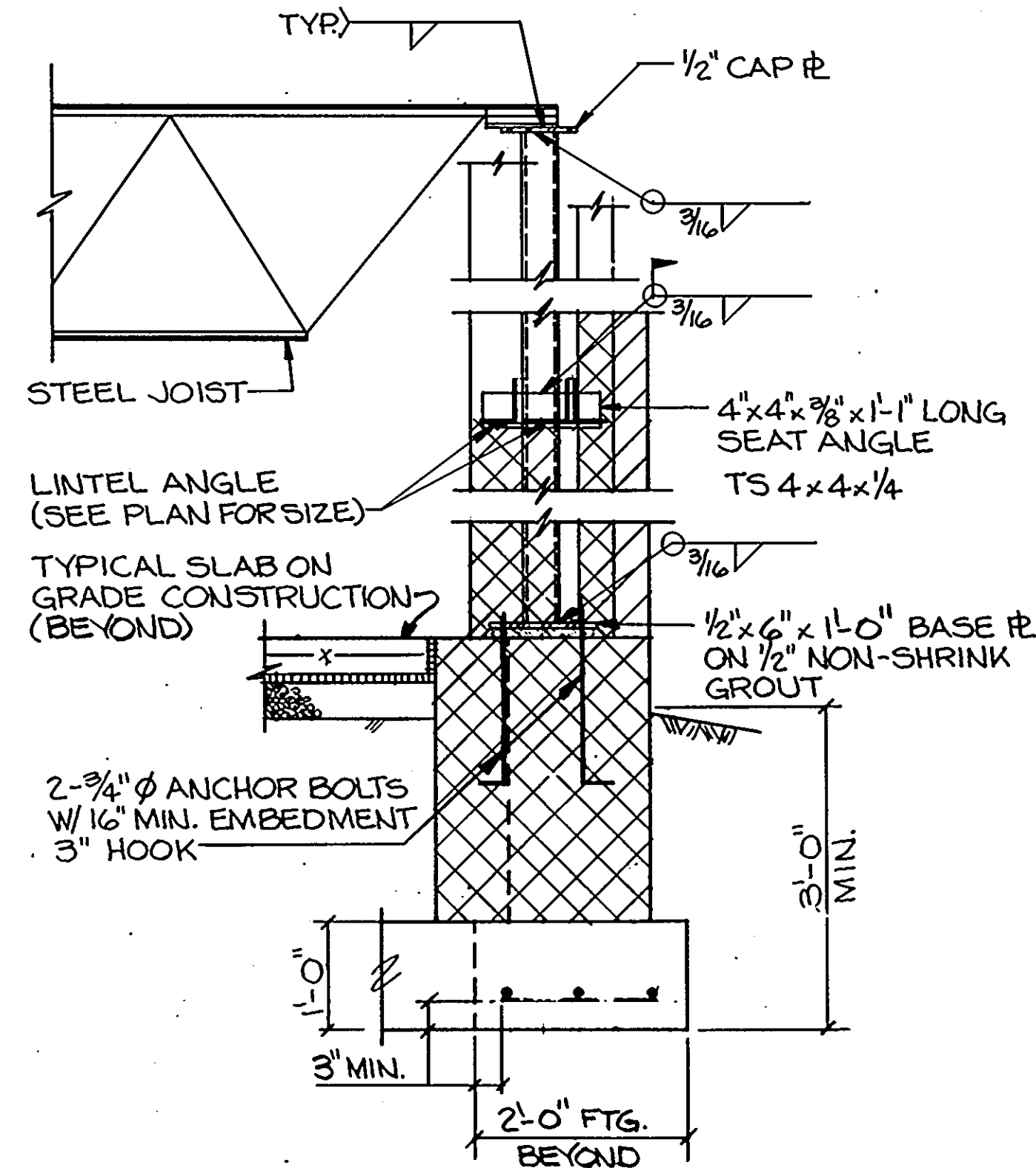
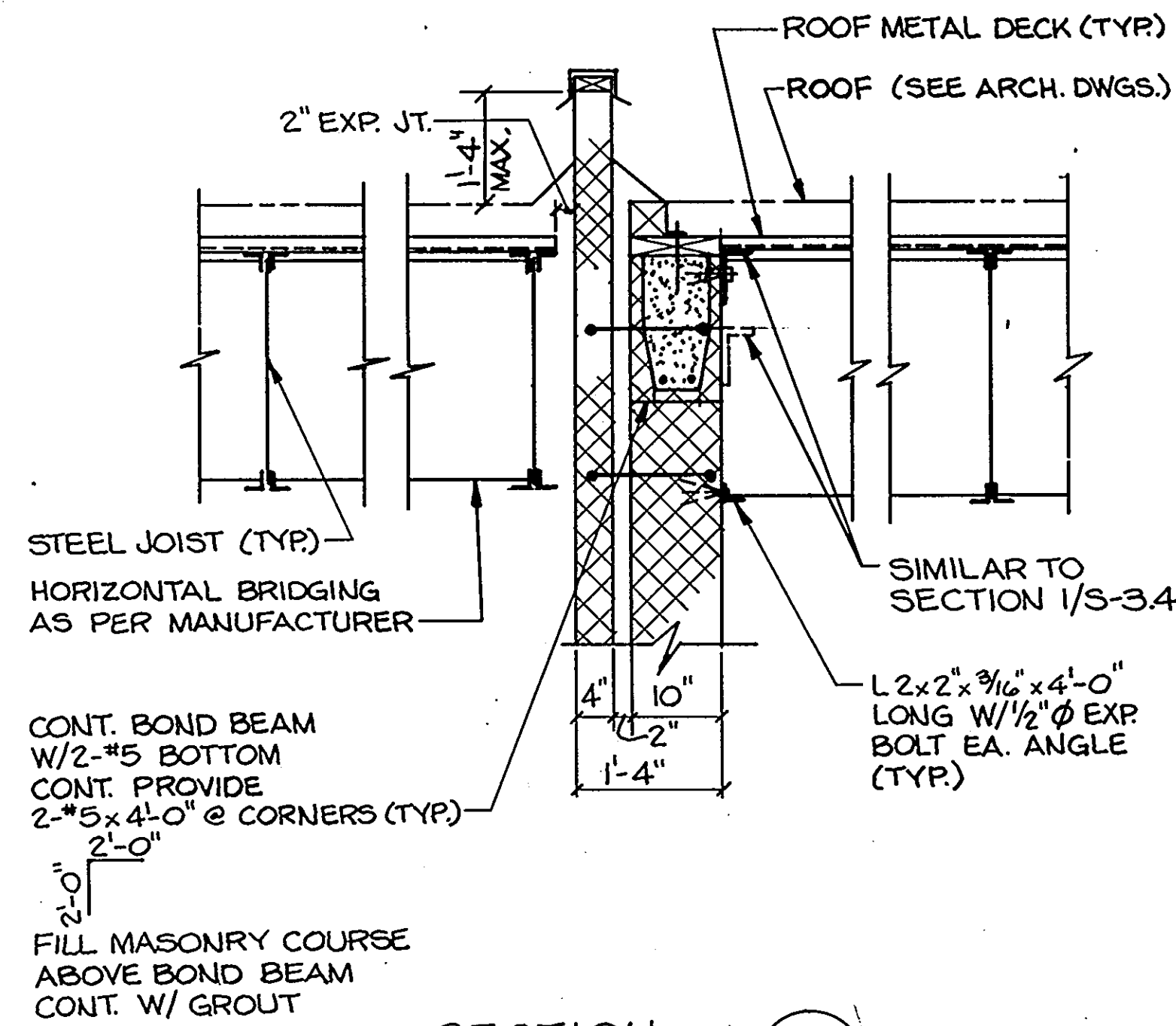
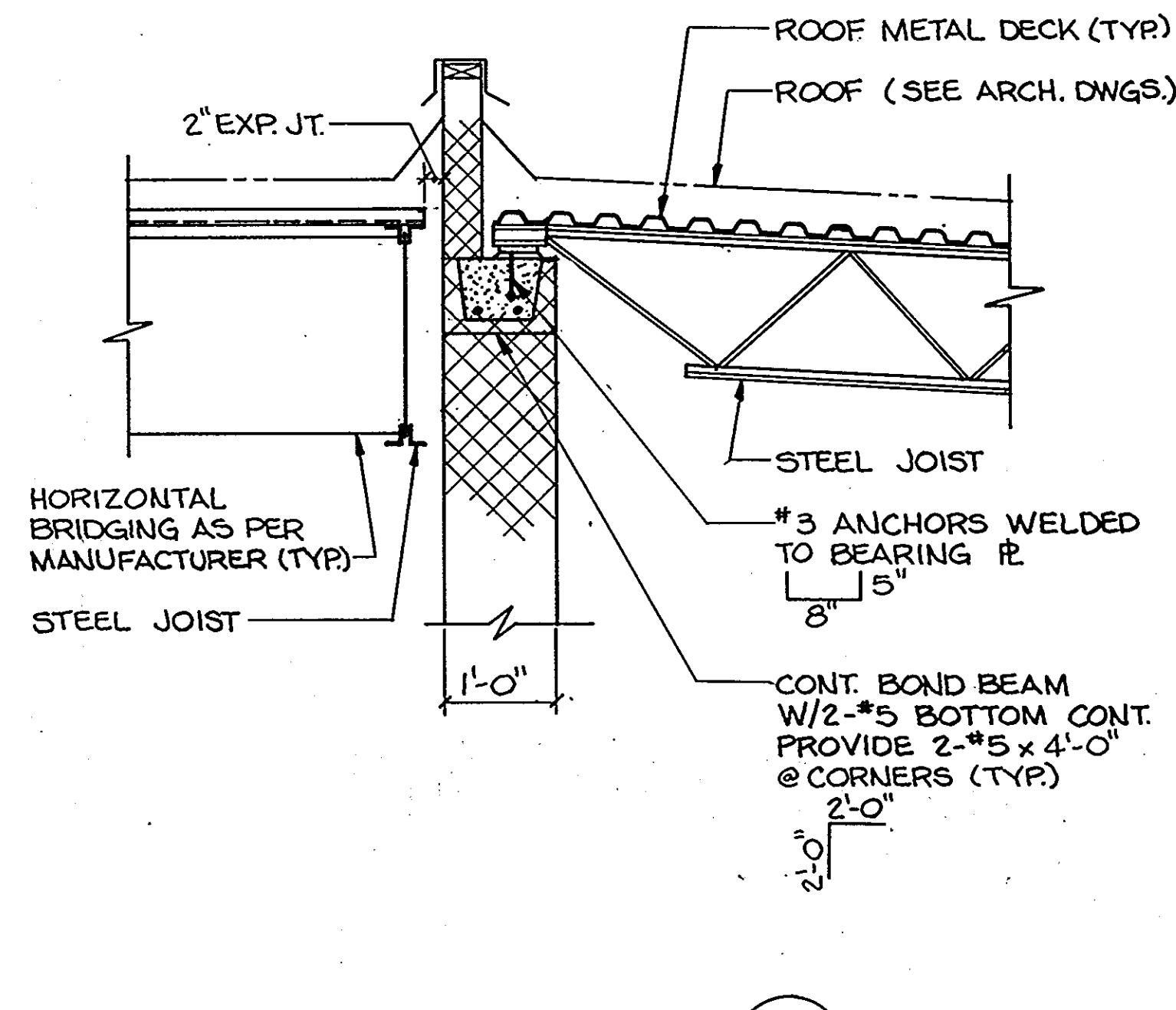
QODESH ENGINEERING SERVICES, INC.
1111 Centre, Suite 100
5000 Chestnut Avenue
Baltimore, MD 21211
(410) 588-1600

REVISIONS

NO. CHG.	DATE
1	11/24/94

SECTIONS AND DETAILS
HOWARD COUNTY
PUBLIC SAFETY COMPLEX
SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD. 20707

48 OF 90
CAPITAL PROJECT NO. 02-0227
DATE: 3-25-92
DRAWING NO. S-3.4



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 Architects and Construction Consultants
 9192 Red Branch Rd. Suite 300
 Columbia, MD. 21045 (301) 995-4067

IN ASSOCIATION WITH
 CIVIL & GEOTECH ENGINEER
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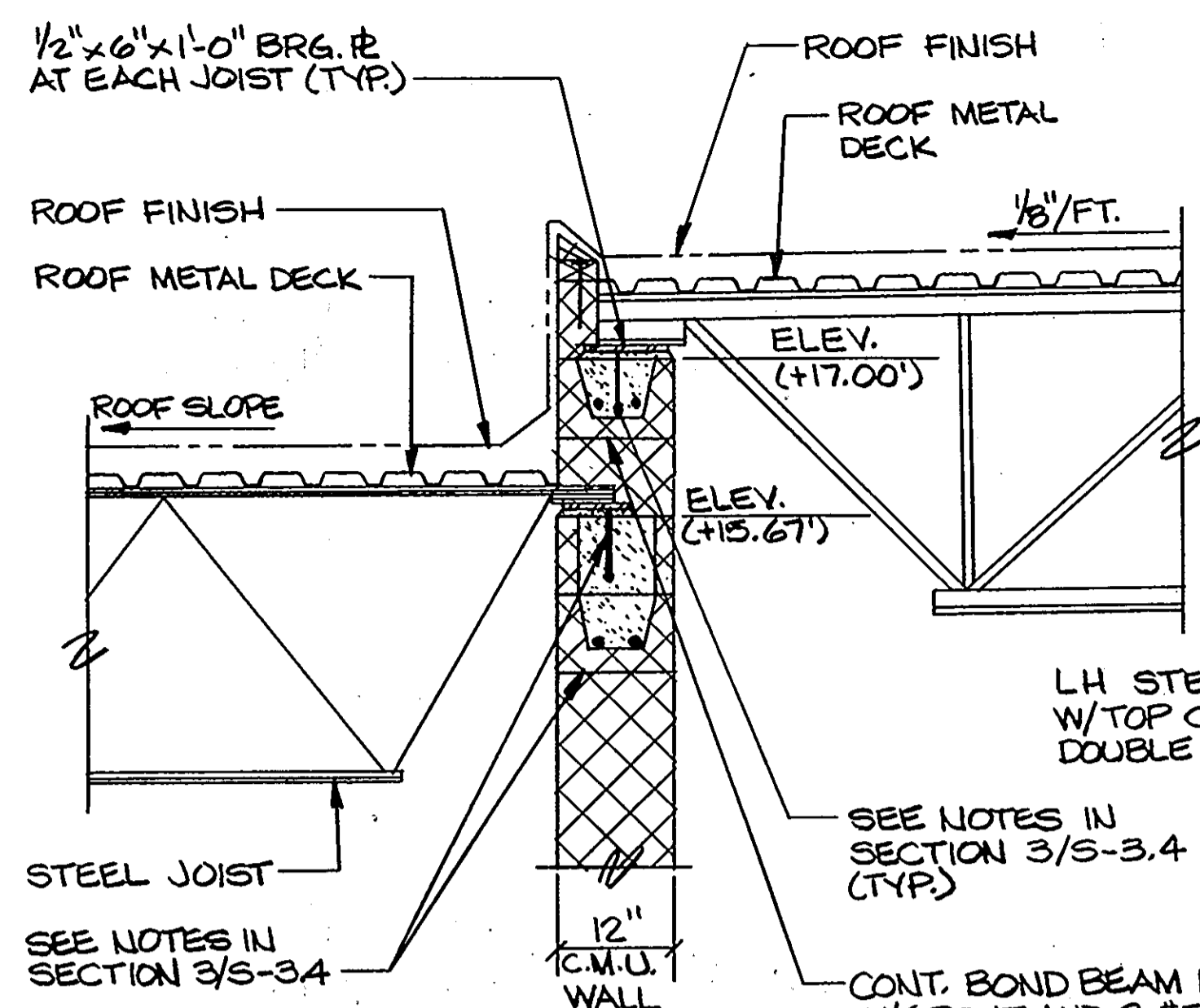
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STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 QODESH ENGINEERING SERVICES, INC.
 Mill Centre, Suite 100
 3000 Chestnut Avenue
 Baltimore, MD 21211
 (501) 889-1303

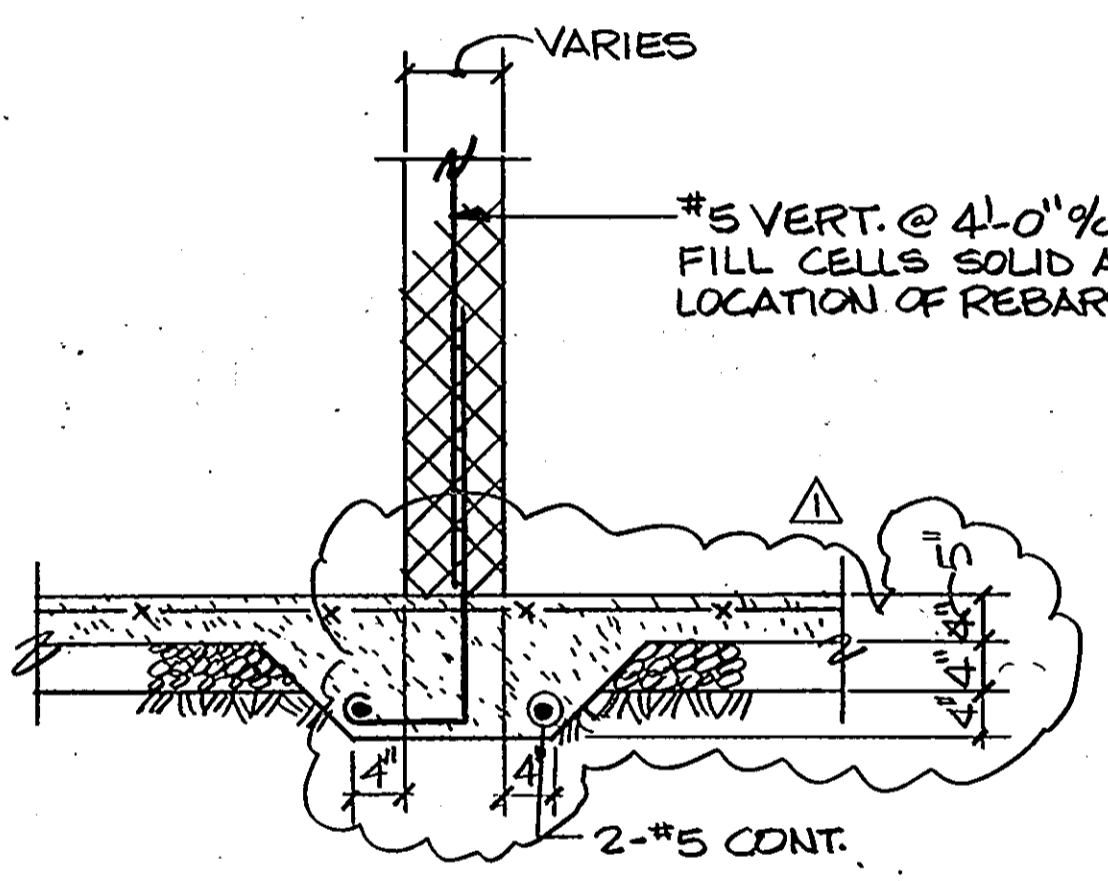
REVISIONS	
AS-BUILT	11/24/94

SECTIONS AND DETAILS	
HOWARD COUNTY PUBLIC SAFETY COMPLEX	
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD. 20707	CAPITAL PROJECT NO. C-0227 DATE: 3-25-92 DRAWING NO. S-3.5

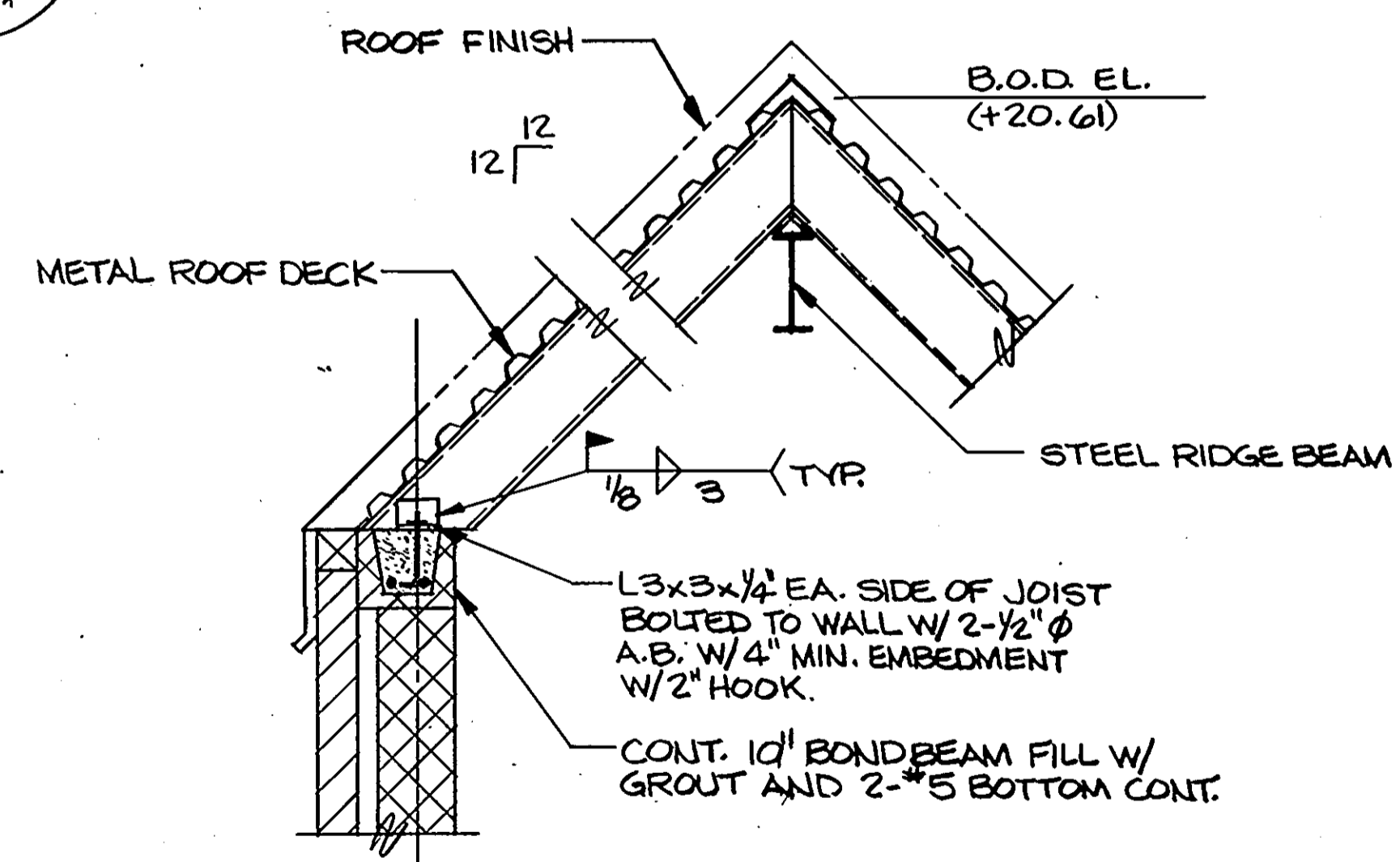
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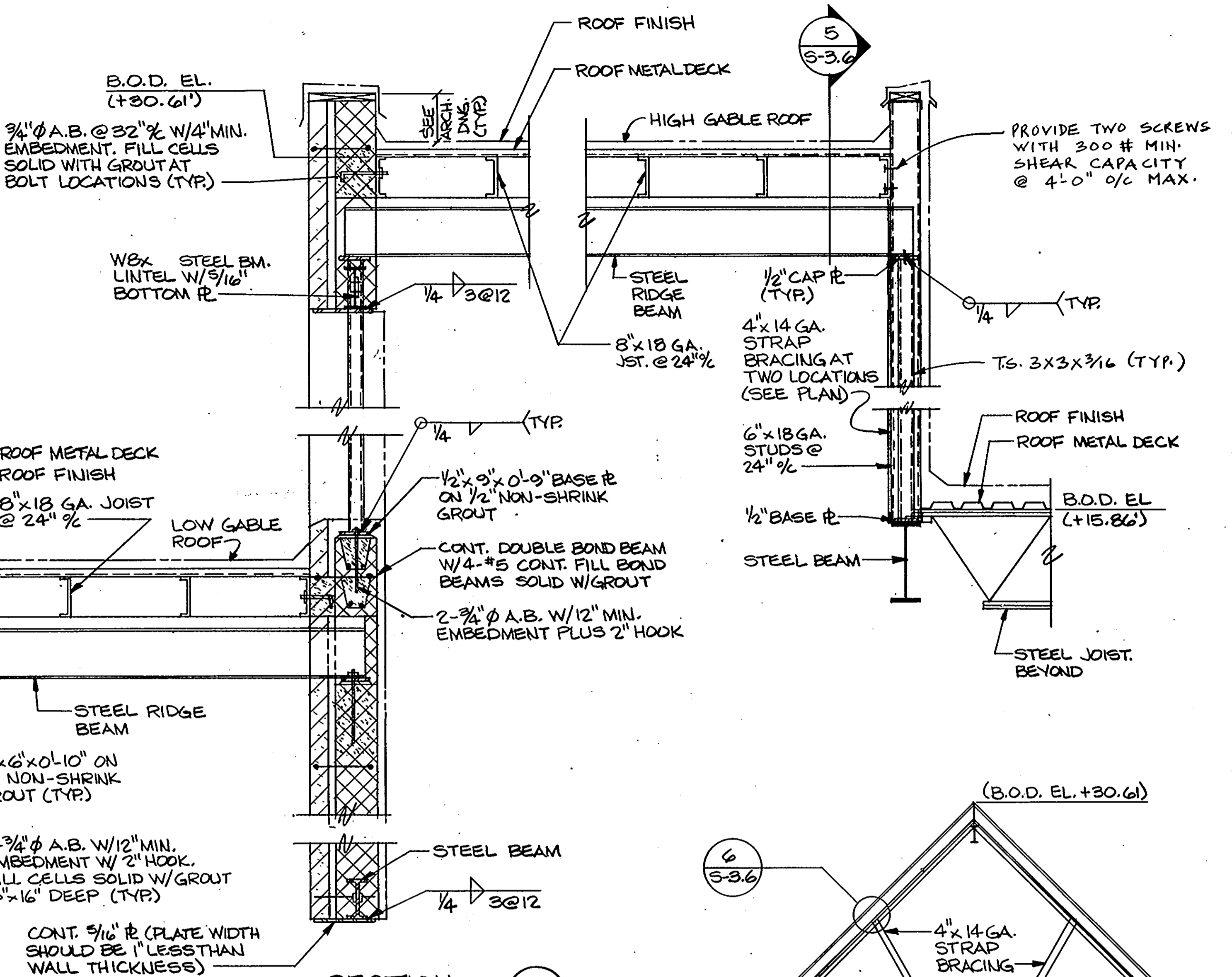
SECTION 1
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S-3.6



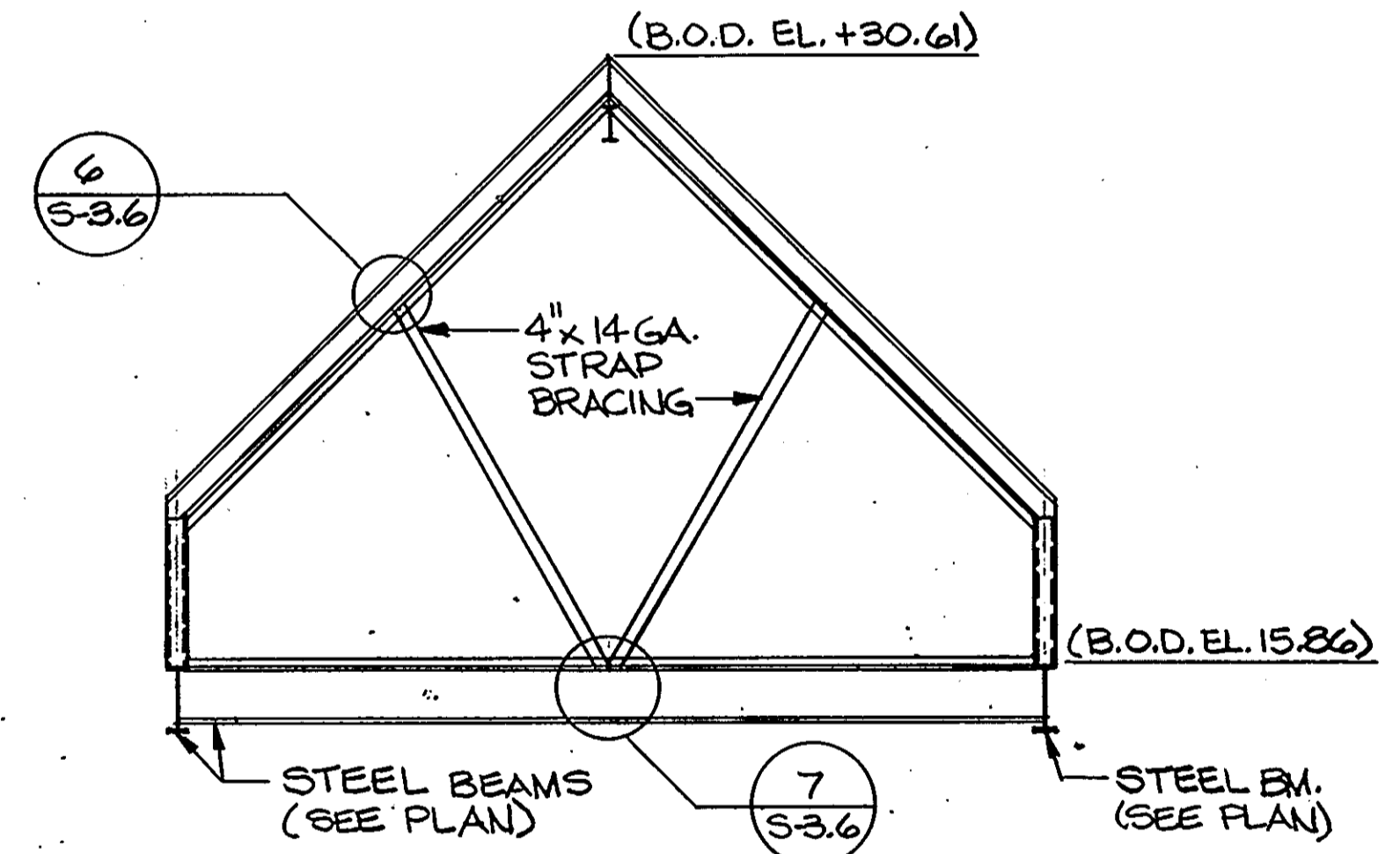
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S-3.6



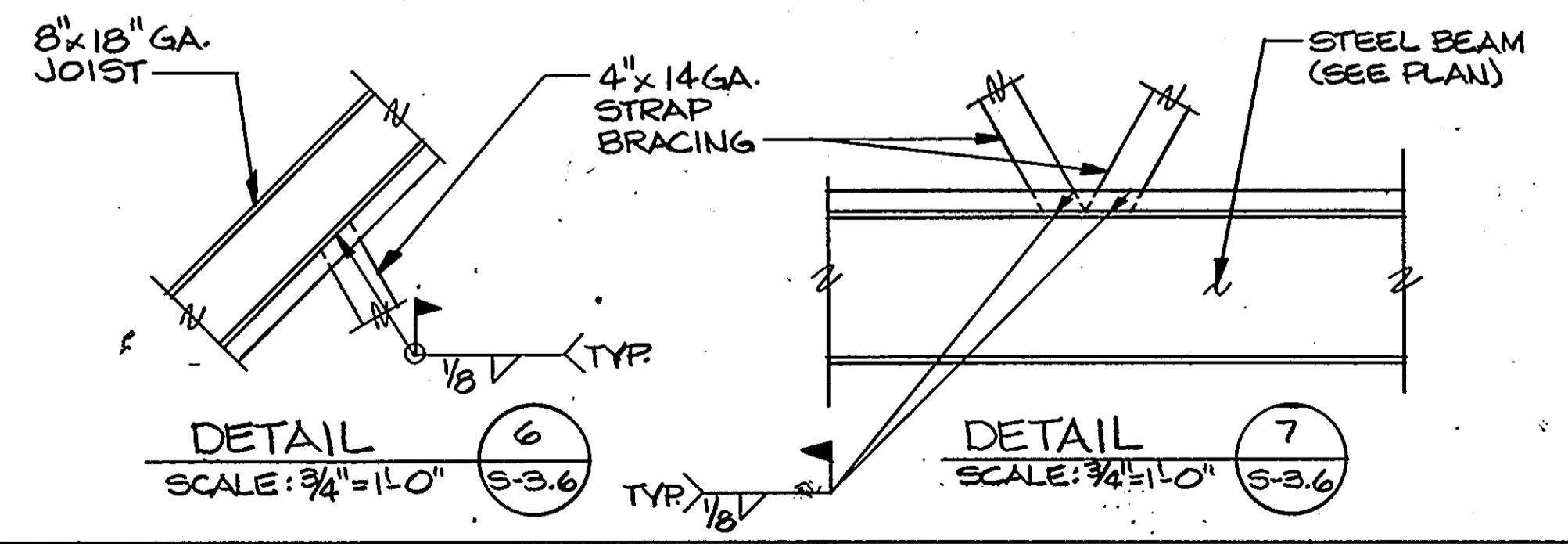
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S-3.6



SECTION 4
SCALE: 3/4"=1'-0"
S-3.6



SECTION 5
SCALE: 1/4"=1'-0"
S-3.6



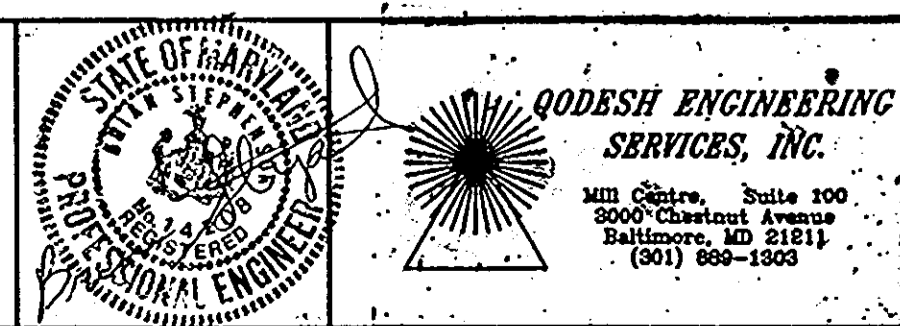
DETAIL 6
SCALE: 3/4"=1'-0"
S-3.6

DETAIL 7
SCALE: 3/4"=1'-0"
S-3.6

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Architects and Construction Consultants
9192 Red Branch Rd, Suite 300
Columbia MD, 21045 (301) 995-4067

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STRUCTURAL ENGINEER
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SECTION 5 AND DETAILS
HOWARD COUNTY
PUBLIC SAFETY COMPLEX
SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD, 20707

50 OF 90
CAPITAL PROJECT NO. 4-0227
DATE: 3-25-92
DRAWING NO. S-3.6

1650

MECHANICAL GENERAL NOTES

MGN-1 PROVIDE ACCESS DOORS TO SERVICE DAMPERS, OPERATORS, VALVES, EQUIPMENT ABOVE PLASTER, DRYWALL, AND/OR INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT AND TYPE OF CEILING CONSTRUCTION.

MGN-2 PROVIDE ACCESS DOORS TO SERVICE DAMPERS, OPERATORS, VALVES, EQUIPMENT BEHIND DRYWALL, PLASTER OR MASONRY WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT AND TYPE OF WALLS CONSTRUCTION.

MGN-3 REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES.

MGN-4 REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF AIR DEVICES IN CERTAIN LOCATIONS, AS INDICATED.

MGN-5 REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES.

MGN-6 ALL CUTTING AND PATCHING SHALL BE DONE IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS. SEE ARCHITECTURAL DETAILS FOR OPENINGS AND PENETRATIONS.

MGN-7 REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING WALL, CEILING, FLOOR AND ROOF CONSTRUCTION.

MGN-8 UNLESS NOTED OTHERWISE, ACCESS DOORS IN FLOORS, WALLS, CEILINGS AND ROOF SHALL BE SIZED AS REQUIRED TO PERMIT FULL ACCESSIBILITY TO VALVES, DAMPERS, ETC. MINIMUM ACCESS DOOR SIZE SHALL BE 18" X 18".

MGN-9 UNLESS NOTED OTHERWISE, ALL WORK SHALL BE EITHER CONCEALED ABOVE CEILING, IN WALLS, CHASES OR BUILDING STRUCTURE. WORK IN MECHANICAL/ELECTRICAL ROOM SHALL BE EXPOSED.

MGN-10 DUCT SIZES INDICATED ON THE DRAWINGS ARE IN INCHES. DUCT SHALL BE GALVANIZED 24 GAGE MINIMUM WITH TURNING VANES IN ALL ELBOWS.

MGN-11 SUPPLY AIR DUCTWORK SHALL BE PROVIDED WITH MINIMUM 1 INCH SOUND LINING.

MGN-12 ALL RETURN AIR DUCTWORK SHALL BE PROVIDED WITH MINIMUM 1 INCH SOUND LINING.

MGN-13 GENERAL CONTRACTOR SHALL COORDINATE DUCT WORK, FIRE PROTECTION SYSTEMS, PIPING, STRUCTURAL, AND ELECTRICAL WORK. OFFSET IN HORIZONTAL AND VERTICAL DIRECTION DUCT WORK, PIPING AND ELECTRICAL CONDUIT AS REQUIRED FOR INSTALLATION OF ALL SYSTEMS, AT NO ADDITIONAL COST TO THE OWNER.

MGN-14 COORDINATE CEILING AIR DEVICES, SPRINKLERS, LIGHTING FIXTURES, SMOKE DETECTORS, ETC.

MGN-15 SURFACES SURROUNDING THE PENETRATION FOR DUCTS AND PIPES SHALL BE PATCHED AND SEALED IN ACCORDANCE WITH SPECIFICATIONS. SEALANT SHALL BE COMPATIBLE WITH WALL, FLOOR, CEILING, AND ROOF CONSTRUCTION AND/OR THEIR ASSOCIATED FIRE RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR OF WALL, FLOOR, CEILING AND ROOF.

MGN-16 PROVIDE FIRE DAMPERS WHERE INDICATED AND REQUIRED BY NFPA IN ALL DUCTS PENETRATING FIRE RATED WALLS, CEILINGS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATING, LOCATION, CONSTRUCTION AND EXTENT OF FIRE RATED BUILDING MEMBERS.

MGN-17 PRIOR TO STARTING WORK, CONTRACTOR SHALL VERIFY LOCATION OF EXISTING WORK TO BE REMOVED, RELOCATED OR TO REMAIN. CONNECT. REFER TO PROJECT SPECIFICATIONS AND CIVIL DRAWINGS.

MGN-18 CONTRACTOR SHALL BALANCE HOT WATER GPM AS SHOWN ON DRAWINGS.

MGN-19 CONTRACTOR SHALL BALANCE AIR HANDLING UNIT AND DIFFUSERS TO CFM SHOWN ON DRAWINGS.

MGN-20 CONTRACTOR SHALL BALANCE EXHAUST FANS TO CFM SHOWN ON DRAWINGS. ALL EXHAUST FANS SHALL HAVE BACKDRAFT DAMPERS WITH SEALS AND DISCONNECT SWITCHES. (SEE FAN SCHEDULE).

MGN-21 ALL OUTSIDE AIR LOUVERS SHALL BE SAME STYLE AND TYPE WITH REMOVABLE BIRD INSECT SCREEN, CAULKED AND SEALED.

MGN-22 SANITARY AND STORM WATER DRAIN PIPES SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT. WHERE POSSIBLE, THE SLOPE SHALL BE INCREASED IN COORDINATION WITH OTHER WORK.

MECHANICAL GENERAL NOTES

MGN-23 DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, ELBOWS, OR OTHER SPECIFIC ELEMENTS THAT MAY BE REQUIRED FOR PROPER INSTALLATION OF THE WORK. ADDITIONAL BENDS AND OFFSETS AS REQUIRED BY VERTICAL AND HORIZONTAL EQUIPMENT LOCATIONS OR OTHER JOB CONDITIONS SHALL BE PROVIDED TO COMPLETE THE WORK, AT NO ADDITIONAL COST TO THE OWNER.

MGN-24 MECHANICAL EQUIPMENT IS SPECIFIED BY MAKE AND MODEL NUMBER TO ESTABLISH A LEVEL OF QUALITY, DIMENSIONAL LIMITATIONS, AND PERFORMANCE CHARACTERISTICS. PRODUCTS OF OTHER MANUFACTURERS MAY BE FURNISHED, HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SAME LEVEL OF QUALITY, DIMENSIONAL LIMITATIONS AND PERFORMANCE CHARACTERISTICS, TO THE FULL SATISFACTION OF THE OWNER.

MGN-25 CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS FOR ALL MECHANICAL WORK.

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
---	COLD WATER PIPING -- DOMESTIC
----	HOT WATER PIPING -- DOMESTIC
-----	HOT WATER PIPING RECIRCULATING
---S---	SAN DRAIN ABV FLOOR OR GRADE
---SC---	SAN DRAIN BLW FLOOR OR GRADE
---SW---	STORM DRAIN ABV FLOOR OR GRADE
---SWG---	STORM DRAIN BLW FLOOR OR GRADE
---	VENT PIPE
---CD---	AC COND DRAIN ABV FLOOR OR GRADE
---CD---	AC COND DRAIN BLW FLOOR OR GRADE
○	CLEANOUT
○	FLOOR CLEANOUT
○	AREA DRAIN X DESIGNATE TYPE
○	FLOOR DRAIN X DESIGNATE TYPE
○	ROOF DRAIN X DESIGNATE TYPE
A	COMPRESSED AIR
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
	FUEL OIL SUCTION
	FUEL OIL RETURN
HWS	HEATING HOT WATER SUPPLY
HWR	HEATING HOT WATER RETURN
HPS	HEATPUMP WATER SUPPLY
HPR	HEATPUMP WATER RETURN
LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE STEAM CONDENSATE
AP	AUTOMATIC AIR VENT
AG	ALIGNMENT GUIDE
AS	AIR SCOOP
BJ	BALL JOINT
BFP	BACK FLOW PREVENTER ASSEMBLY
ATC	ATC VALVE
	BALANCING / SHUT OFF VALVE
BV	BV WITH FLOW METER FITTING
	CAP OR PLUG PIPE END
S	CEILING SPEAKER
	RECESSED OR SURFACE LIGHTING FIXTURE STATIC
	RECESSED LIGHT FIXTURE RETURN AIR
	UNIT HEATER DOWNFLOW TYPE
	DUCT TO EXHAUST FAN ON ROOF
	MANUAL VOLUME DAMPER
	RELIEF AIR VENTILATOR ON ROOF
	FLEXIBLE ROUND DUCT. SIZE EQUAL TO NECK ON AIR DEVICE
DPX YYY	AIR DEVICE TYPE X DESIGNATES NECK SIZE GENERALLY, YYY DESIGNATES CFM
	DUCTWORK WITH INSULATION

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
	CHECK VALVE
	EXPANSION JOINT
	EXPANSION LOOP
	FLEXIBLE CONNECTOR
	FLOW METER FITTING
	FLOW SWITCH
	GATE VALVE
	GATE VALVE IN VERTICAL
	GLOBE VALVE
	HOSE END DRAIN
	INCREASER CONCENTRIC
	INCREASER ECCENTRIC
	MANUAL AIR VENT
	PITCH OF PIPE, RISE(R) DROP (D)
	PIPE ELBOW TURNED UP
	PIPE ELBOW TURNED DOWN
	PIPE ANCHOR
	PRESSURE GAUGE WITH COCK
	PRESSURE REDUCING STATION
	PRESSURE RELIEF VALVE
	PRESSURE AND TEMPERATURE PLUG
	PRESSURE SWITCH
	PLUGGED TEST CONN WITH COCK
	PUMP SUCTION DIFFUSER
	REDUCER CONCENTRIC
	REDUCER ECCENTRIC
	STEAM TRAP F&T TYPE
	STEAM TRAP BUCKET TYPE
	THERMOSTAT
	UNION
	UNIT HEATER (INDICATE TYPE)
	AIR FLOW MEASURING STATION
	ATC MOTOR OPERATED DAMPER
	CHANGE IN DUCT ELEVATION
	RISE (R) DROP (D)
	IN DIRECTION AIR FLOW
	DUCTWORK SIZE IN INCHES
	DUCTWORK WITH SOUND LINING
	ELBOW WITH TURNING VANES
	EXHAUST AIR CEILING REGISTER
	EXHAUST AIR DUCT DOWN
	EXHAUST AIR DUCT UP
	FIRE DAMPER
	FAN POWER BOX WITH REHEAT COIL
	XX DESIGNATES INLET SIZE
	FLEXIBLE CONNECTION
	RETURN AIR CEILING REGISTER
	RETURN AIR DUCT DOWN
	RETURN AIR DUCT UP
	SOUND ATTENUATOR
	SUPPLY AIR DUCT DOWN
	SUPPLY AIR DUCT UP
	SA CEILING DIFFUSER
	STATIC PRESSURE SENSING STATION
	T- BAR DIFFUSER WITH FLEX DUCT
	MANUAL VOLUME DAMPER

MECHANICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION
A	COMPRESSED AIR
AAV	AUTOMATIC AIR VENT
ABAN	ABANDON
ABV	ABOVE
AC	AIR CONDITIONING
ACWC	AIR COOLED WATER CHILLER
AD	ACCESS DOOR
ADR	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AHD	AIR MEASURING DEVICE/STATION
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AS	AIR SCOOP
ATC	AUTOMATIC TEMPERATURE CONTROL
	ANGLE
	ROUND DUCT
	FLAT OVAL DUCT
BAL	BALANCE
BDD	BACK DRAFT DAMPER
BE	BOTTOM ELEVATION
BFP	BACK FLOW PREVENTER
BHP	BRAKE HORSE POWER
BJ	BALL JOINT
BLDG	BUILDING
BLW	BELOW
BT	BUCKET TRAP
BV	BALANCING VALVE
BVF	BALANCING VALVE WITH FLOWMETER FITTING
C	COMMON
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CF	CUBIC FEET
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CI	CAST IRON
CL OR	CENTER LINE
CLG	CEILING
CO	CLEAN OUT
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUATION
CUH	CABINET UNIT HEATER
CW	COLD WATER (DOMESTIC)
CX	CONNECT TO EXISTING
DB	DRY BULB
DEG OR	DEGREE
DF	DRINKING FOUNTAIN
DIA OR	DIAMETER
DL	DOOR LOUVER
DN	DOWN
DPR	DAMPER
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
EA	EXHAUST FAN
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EFR	EXHAUST FAN ON ROOF
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EMD	END MAIN DRIP
ETR	EXISTING TO REMAIN
EXH	EXHAUST
EXP	EXPANSION
EXT	EXPANSION TANK
EW	ELECTRICAL WATER COOLER
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FC	FLOOR CLEAN OUT
FD	FIRE DAMPER
FDR	FLOOR DRAIN
FDT	FOUNDATION DRAIN TILE
FHC	FIRE HOSE CABINET
FLEX	FLEXIBLE
FLR	FLOOR
FMF	FLOW METER FITTING
FOB	FLAT OR BOTTOM
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOT	FLAT OR TOP
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
F&T	FLOAT AND THERMOSTATIC TRAP
FT OR	FEET
FSP	FIRE STAND PIPE

MECHANICAL ABBREVIATIONS

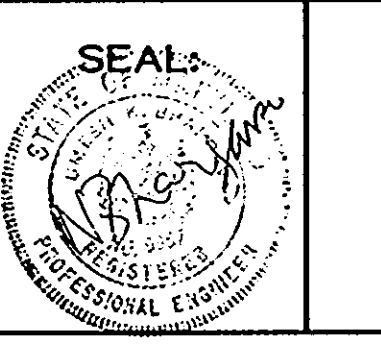
ABBREVIATION	DESCRIPTION
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRILLE
HB	HOSE BIBB
HDR	HEADER
HED	HOSE END DRAIN
HP	HORSE POWER
HPWR	HEAT PUMP WATER SUPPLY
HPWS	HEAT PUMP WATER RETURN
HW	HOT WATER (DOMESTIC)
HWB	HOT WATER BOILER
HWC	HOT WATER RECIRCULATING
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
HZ	HERTZ
IMC	INSULATED METAL CASING
IN OR "	INCH
INV	INVERT ELEVATION
LPR	LOW PRESSURE STEAM (CONDENSATE) RETURN
LPS	LOW PRESSURE STEAM SUPPLY
MAV	MANUAL AIR VENT
MH	MAN HOLE
MIX	MIXING
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO. OR #	NUMBER
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OC	ON CENTER
OED	OPEN END DUCT
PD	PRESSURE DROP
PH OR	PHASE
PRES	PRESSURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RCCP	REINFORCED CONCRETE CULVERT PIPE
RDR	ROOF DRAIN
REQD	REQUIRED
RET	RETURN
RHC	REHEAT COIL
RL	RAIN LEADER
RX	REMOVE EXISTING
S	SANITARY DRAIN PIPE
SA	SUPPLY AIR
SCHD	SCHEDULE
SD	STORM DRAIN PIPE BELOW GRADE
SDG	STORM DRAIN PIPE BELOW GRADE
SG	SANITARY DRAIN PIPE
SL	DUCT SOUND LINING
SP	STATIC PRESSURE
SPKR	SPRINKLER
SPS	STATIC PRESSURE SENSING STATION
SS	STAINLESS STEEL
TA	TRANSFER AIR
TFR	TRANSFER
TPL	TRAP PRIMING LINE
TRANS	TRANSITION
UC	UNDERCUT DOOR
UH	UNIT HEATER
V	VOLT
VAV	VARIABLE AIR VOLUME
VC	CLEANOUT IN VERTICAL PIPE
VD	MANUAL VOLUME DAMPER
VFC	VARIABLE FREQUENCY CONTROLLER
VIB	VIBRATION ISOLATOR
VTR	VENT THROUGH ROOF
W/	WITH
WB	WET BULB

1650

ARCHITECTURAL TECHNOLOGIES, INC.
 Architects and Construction Consultants
 9192 Red Branch Road, Suite 300
 Columbia, MD 21045 (301)995-4067

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 FIRE PROTECTION ENGINEER: STANTON ENGINEERING



REVISIONS

NO.	DESCRIPTION	DATE
AS-BUILT		1/24/94

MECHANICAL GENERAL NOTES SYMBOLS AND ABBREVIATIONS

HOWARD COUNTY PUBLIC SAFETY COMPLEX

**SCAGGSVILLE ANNEX
 11226 ROUTE 216
 LAUREL, MD 20707**

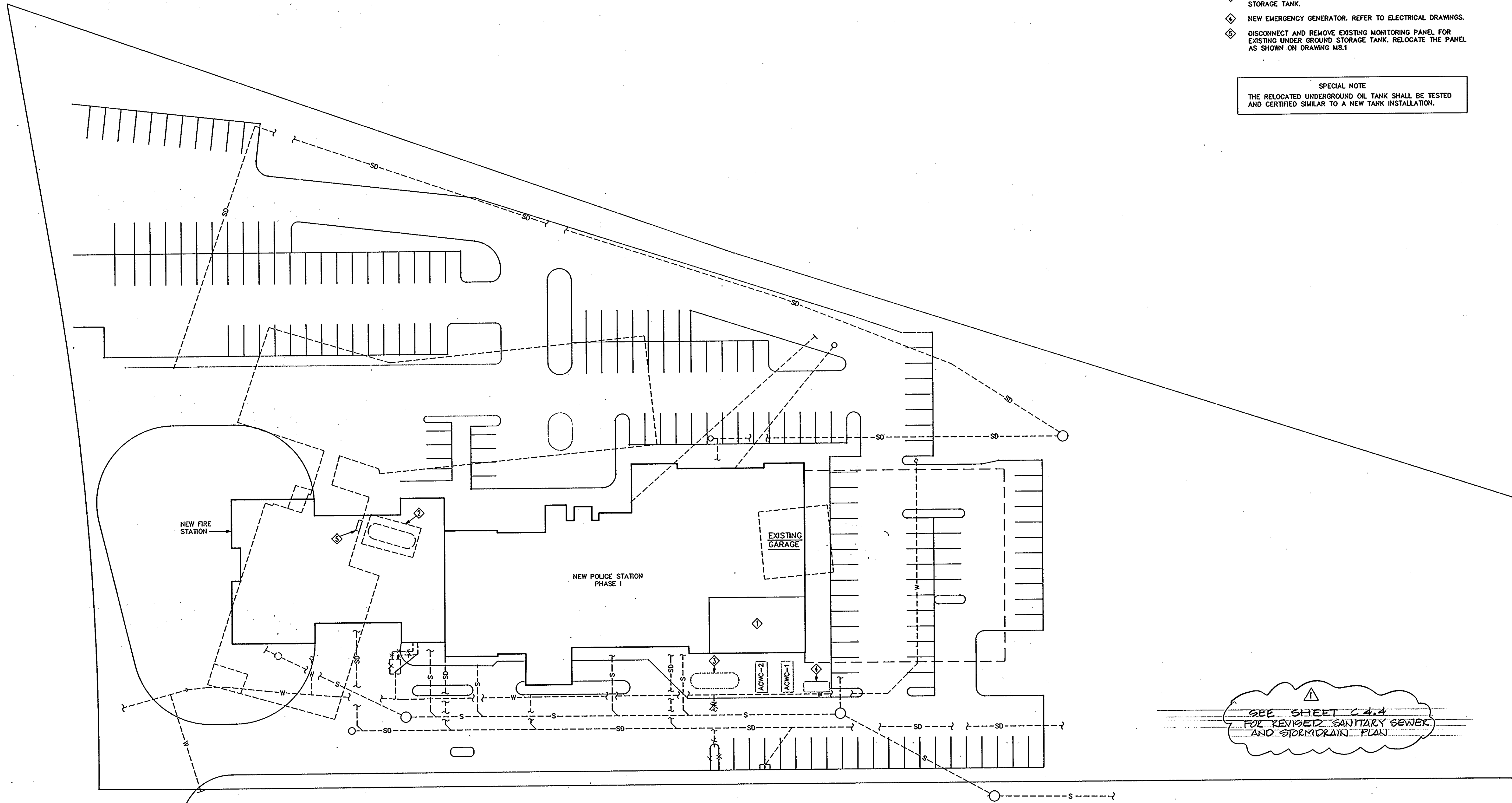
51 OF 90

CAPITAL PROJECT NO. C-0227
 DATE: 3/25/92
 DRAWING NO. M1.1

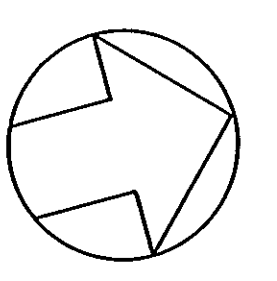
DRAWING NOTES:

- ◆ LOCATION OF NEW MECHANICAL AND ELECTRICAL ROOMS.
- ◆ EXISTING UNDER GROUND OIL STORAGE TANK SHALL BE REMOVED AND REINSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. ALL WORK SHALL BE PERFORMED BY OWEN CORNING CERTIFIED CONTRACTORS.
- ◆ THE NEW LOCATION OF RELOCATED UNDER GROUND FUEL OIL STORAGE TANK.
- ◆ NEW EMERGENCY GENERATOR. REFER TO ELECTRICAL DRAWINGS.
- ◆ DISCONNECT AND REMOVE EXISTING MONITORING PANEL FOR EXISTING UNDER GROUND STORAGE TANK. RELOCATE THE PANEL AS SHOWN ON DRAWING M8.1

SPECIAL NOTE
 THE RELOCATED UNDERGROUND OIL TANK SHALL BE TESTED AND CERTIFIED SIMILAR TO A NEW TANK INSTALLATION.



SEE SHEET C-4.4
 FOR REVISED SANITARY SEWER
 AND STORM DRAIN PLAN



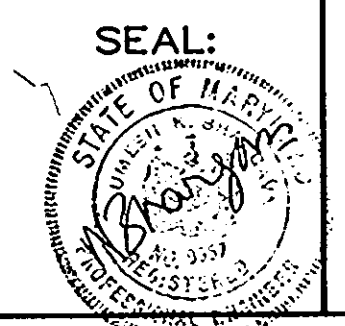
SITE PLAN - PHASE 1	52 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. M2.1

1650

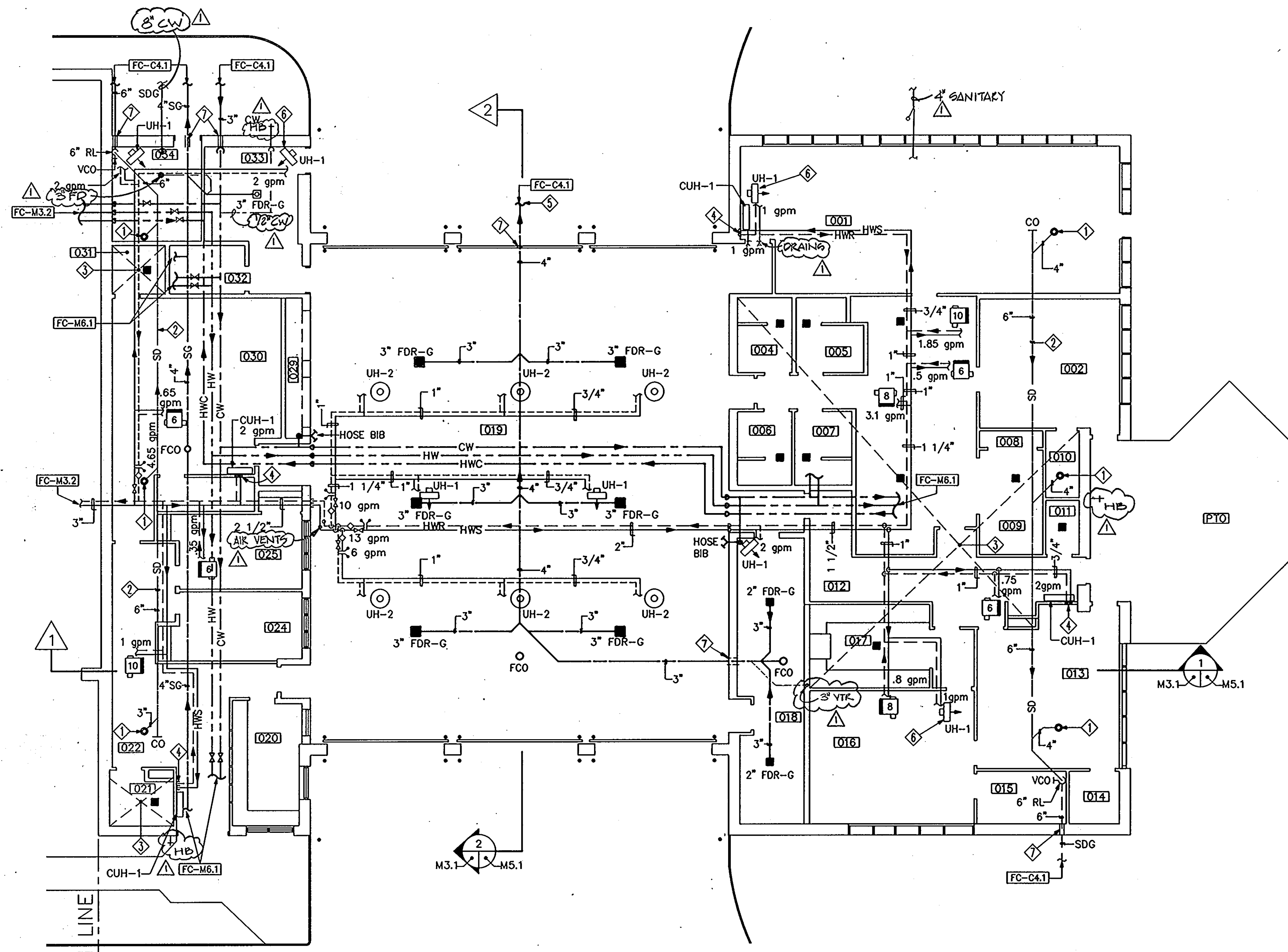
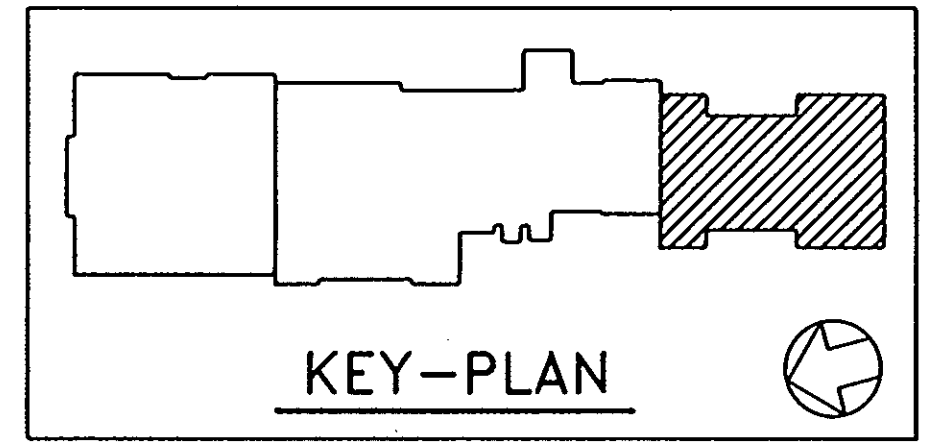
ARCHITECTURAL TECHNOLOGIES, INC.
 Architects and Construction Consultants
 9192 Red Branch Road, Suite 300
 Columbia, MD 21045 (301)995-4067

IN ASSOCIATION WITH :

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STRUCTURAL ENGINEER:	QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING



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- NOTES:**
- ① UP TO ROOF DRAIN. REFER TO ARCHITECTURAL DRAWING FOR ROOF DRAIN SIZES.
 - ② STORM WATER DRAIN BELOW ROOF.
 - ③ FOR DETAILS OF PLUMBING WORK IN THIS AREA REFER TO PART PLAN ON DRAWING M6.1.
 - ④ DROP PIPES INSIDE THE WALL.
 - ⑤ CONNECT DRAIN PIPE TO STORM WATER DRAIN. REFER TO CIVIL DRAWINGS.
 - ⑥ UNIT HEATER LOCATED ABOVE THE CEILING.
 - ⑦ PROVIDE A WATER TIGHT SLEEVE UNDER GRADE AT PIPE PENETRATION THROUGH WALL FOOTING.

FIRST FLOOR PLAN 1/8" = 1' - 0"
PHASE 1

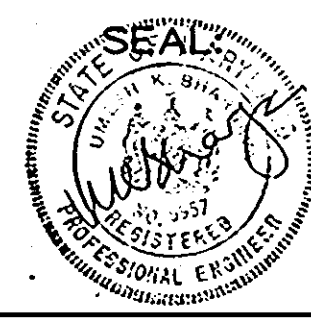
FIRST FLOOR PLAN - PIPING FIRE STATION	53 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. M3.1

REVISIONS	
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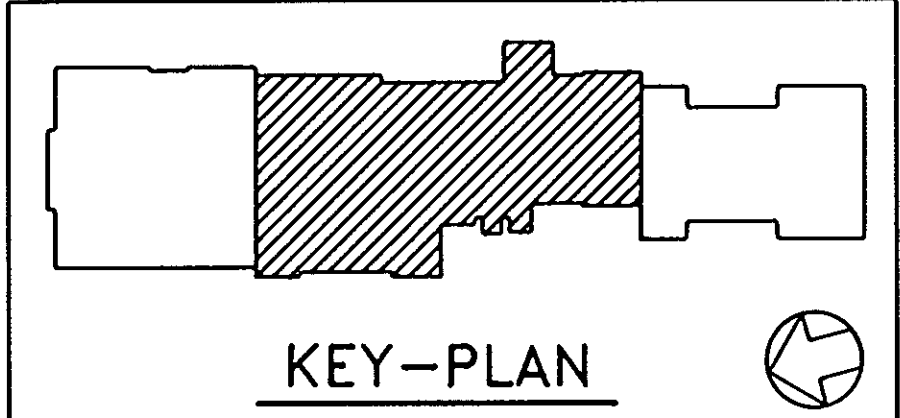
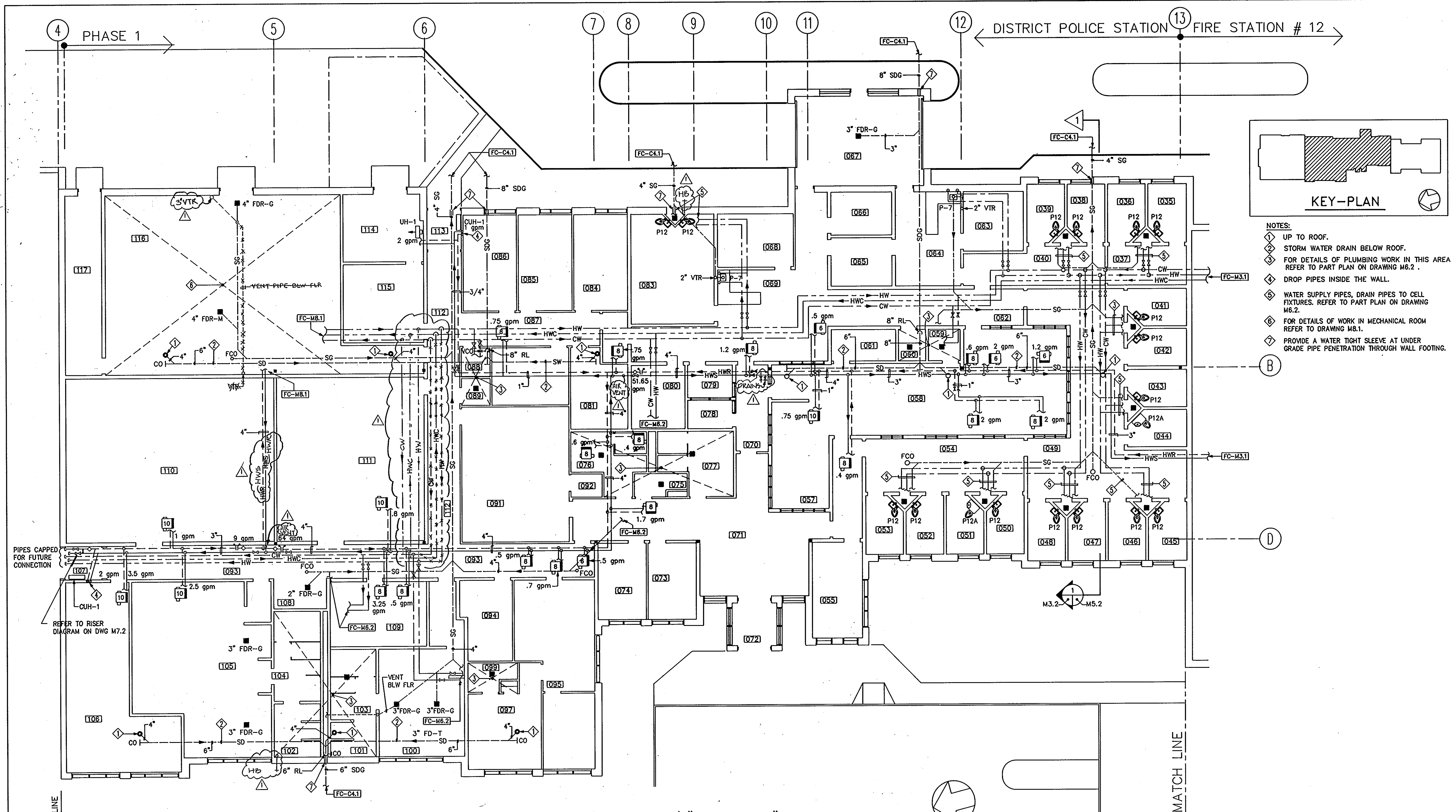
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 FIRE PROTECTION ENGINEER: STANTON ENGINEERING



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- NOTES:
- ① UP TO ROOF.
 - ② STORM WATER DRAIN BELOW ROOF.
 - ③ FOR DETAILS OF PLUMBING WORK IN THIS AREA REFER TO PART PLAN ON DRAWING M6.2.
 - ④ DROP PIPES INSIDE THE WALL.
 - ⑤ WATER SUPPLY PIPES, DRAIN PIPES TO CELL FIXTURES. REFER TO PART PLAN ON DRAWING M6.2.
 - ⑥ FOR DETAILS OF WORK IN MECHANICAL ROOM REFER TO DRAWING M8.1.
 - ⑦ PROVIDE A WATER TIGHT SLEEVE AT UNDER GRADE PIPE PENETRATION THROUGH WALL FOOTING.

FIRST FLOOR PLAN 1/8" = 1' - 0"
PHASE 1

FIRST FLOOR PLAN - PIPING POLICE STATION PHASE 1	54 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. M3.2

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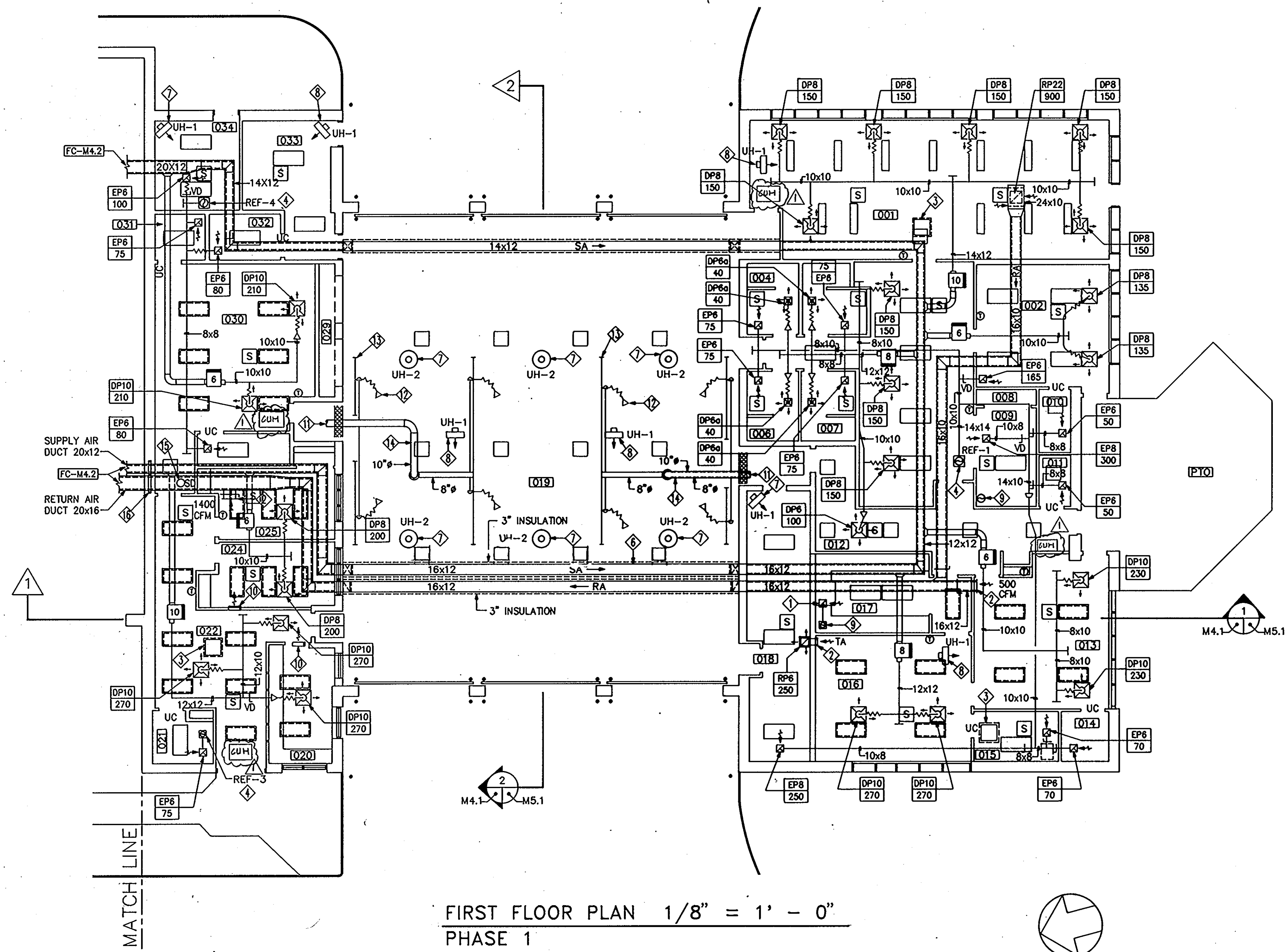
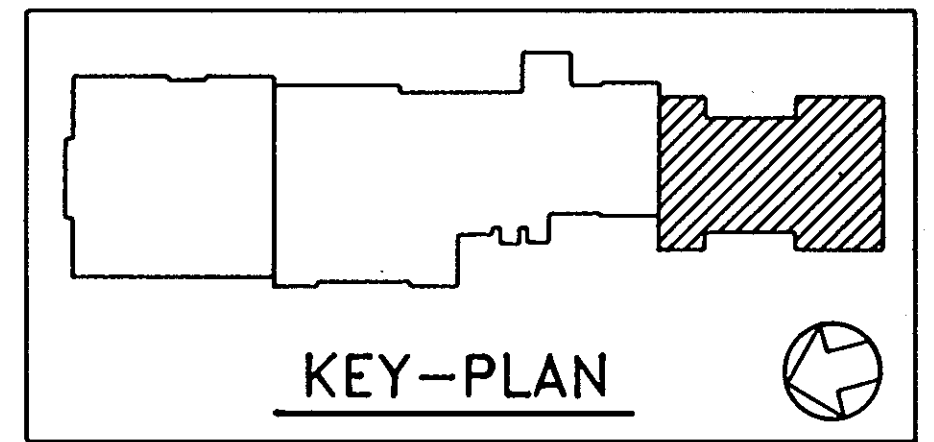
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- THE FOLLOWING NOTES ARE IN \diamond ON THE DRAWING
1. NOT USED.
 2. OPEN END DUCT.
 3. PROVIDE RELIEF AIR VENTILATOR ON THE ROOF WITH MOTORIZED DAMPER BELOW SLAB. FOR ROOF CURB REFER TO ARCHITECTURAL DRAWINGS.
 4. EXHAUST FAN ON ROOF. FOR SIZE AND CAPACITY REFER TO EXHAUST FAN SCHEDULE ON DRAWING M11.1. FOR ROOF CURB REFER TO ARCHITECTURAL DRAWINGS.
 5. NOT USED.
 6. NOT USED.
 7. PROVIDE UNIT HEATER SUSPENDED BELOW CEILING. REFER TO SCHEDULE ON DRAWING M11.1.
 8. PROVIDE UNIT HEATER ABOVE CEILING IN ATTIC SPACE. REFER TO SCHEDULE ON DRAWING M11.1.
 9. PROVIDE EXHAUST AIR VENT THROUGH THE ROOF.
 10. PROVIDE FIRE DAMPER (24x24) IN WALL ABOVE CEILING.
 11. CONNECT DUCT TO ENGINE BAY EXHAUST FAN ON ROOF. FOR DETAILS REFER TO DRAWING M10.1. ALSO REFER TO ARCHITECTURAL DRAWINGS.
 12. EXHAUST EXTRACTION HOSE WITH CRUSH PROOF LOWER END AND AUTO DISCONNECT COUPLING (TYPICAL).
 13. PROVIDE STRAIGHT RAIL BELOW CEILING, TIGHT TO UNDERSIDE OF JOISTS.
 14. ROUTE EXHAUST DUCT BELOW CEILING.
 15. PROVIDE DUCT MOUNTED SMOKE DETECTOR 2 FEET UPSTREAM OF SMOKE DAMPER.
 16. PROVIDE MOTORIZED SMOKE DAMPER.

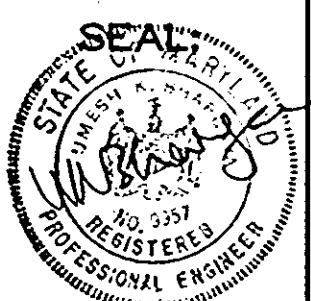
FIRST FLOOR PLAN 1/8" = 1' - 0"
PHASE 1

FIRST FLOOR PLAN - HVAC FIRE STATION	55 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. M4.1

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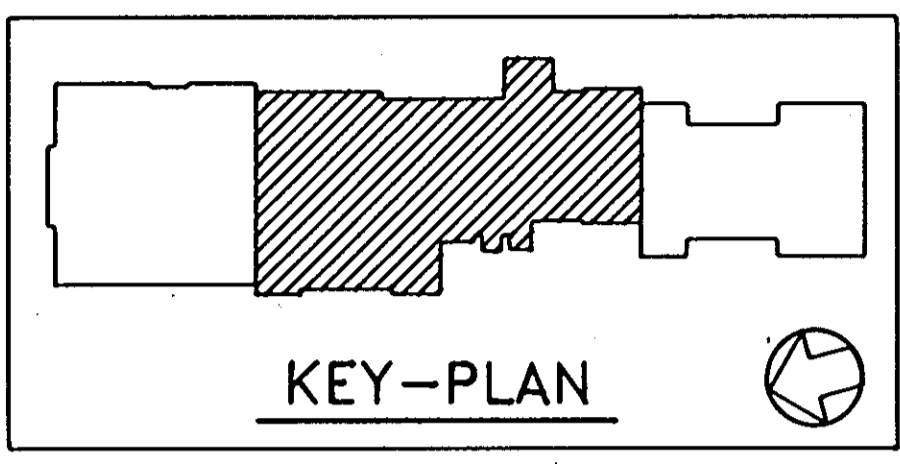
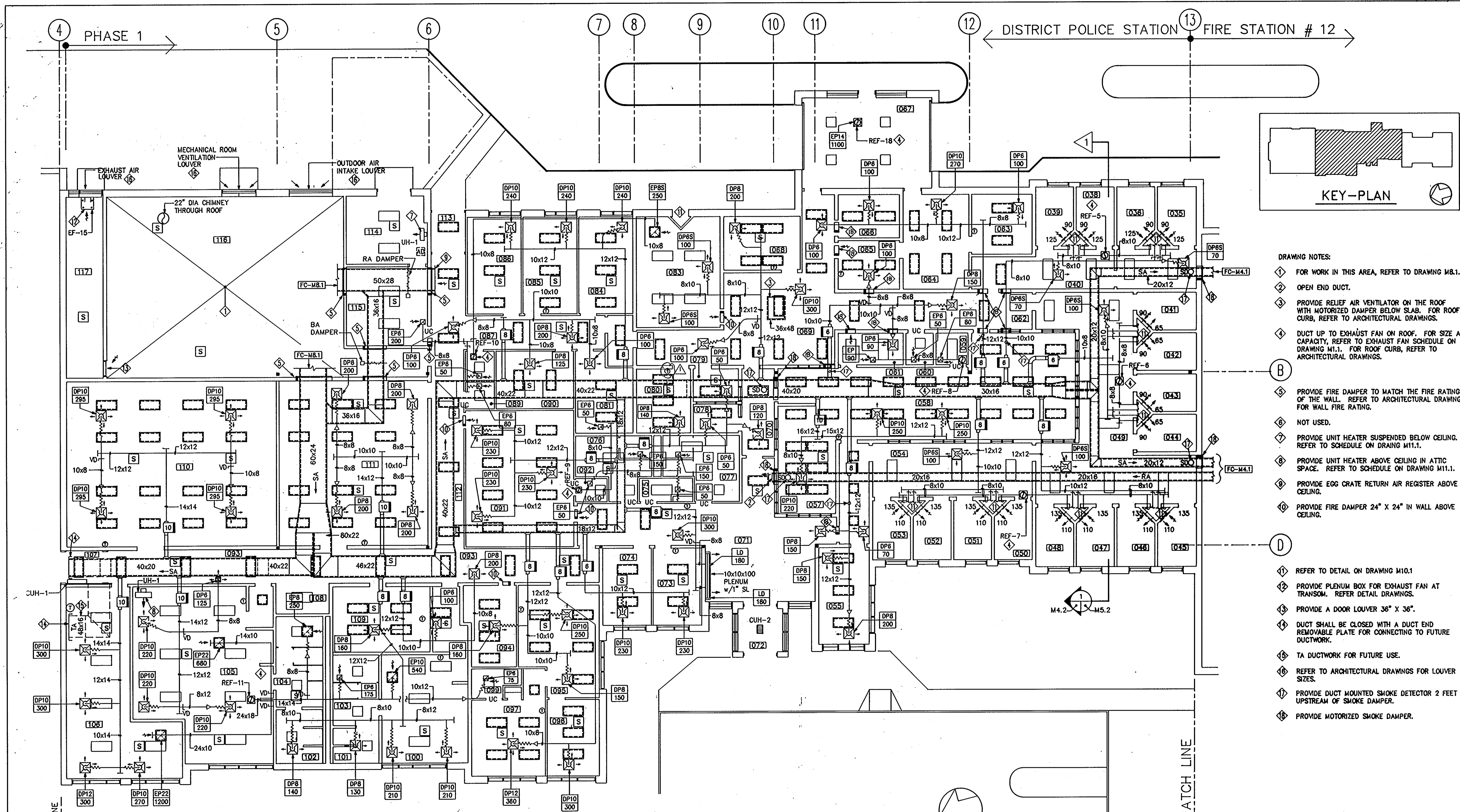
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- DRAWING NOTES:**
- ① FOR WORK IN THIS AREA, REFER TO DRAWING M8.1.
 - ② OPEN END DUCT.
 - ③ PROVIDE RELIEF AIR VENTILATOR ON THE ROOF WITH MOTORIZED DAMPER BELOW SLAB. FOR ROOF CURB, REFER TO ARCHITECTURAL DRAWINGS.
 - ④ DUCT UP TO EXHAUST FAN ON ROOF. FOR SIZE AND CAPACITY, REFER TO EXHAUST FAN SCHEDULE ON DRAWING M1.1. FOR ROOF CURB, REFER TO ARCHITECTURAL DRAWINGS.
 - ⑤ PROVIDE FIRE DAMPER TO MATCH THE FIRE RATING OF THE WALL. REFER TO ARCHITECTURAL DRAWINGS FOR WALL FIRE RATING.
 - ⑥ NOT USED.
 - ⑦ PROVIDE UNIT HEATER SUSPENDED BELOW CEILING. REFER TO SCHEDULE ON DRAWING M11.1.
 - ⑧ PROVIDE UNIT HEATER ABOVE CEILING IN ATTIC SPACE. REFER TO SCHEDULE ON DRAWING M11.1.
 - ⑨ PROVIDE EGG CRATE RETURN AIR REGISTER ABOVE CEILING.
 - ⑩ PROVIDE FIRE DAMPER 24" X 24" IN WALL ABOVE CEILING.
 - ⑪ REFER TO DETAIL ON DRAWING M10.1.
 - ⑫ PROVIDE PLENUM BOX FOR EXHAUST FAN AT TRANSOM. REFER DETAIL DRAWINGS.
 - ⑬ PROVIDE A DOOR LOUVER 36" X 36".
 - ⑭ DUCT SHALL BE CLOSED WITH A DUCT END REMOVABLE PLATE FOR CONNECTING TO FUTURE DUCTWORK.
 - ⑮ TA DUCTWORK FOR FUTURE USE.
 - ⑯ REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER SIZES.
 - ⑰ PROVIDE DUCT MOUNTED SMOKE DETECTOR 2 FEET UPSTREAM OF SMOKE DAMPER.
 - ⑱ PROVIDE MOTORIZED SMOKE DAMPER.

FIRST FLOOR PLAN 1/8" = 1' - 0"
PHASE 1

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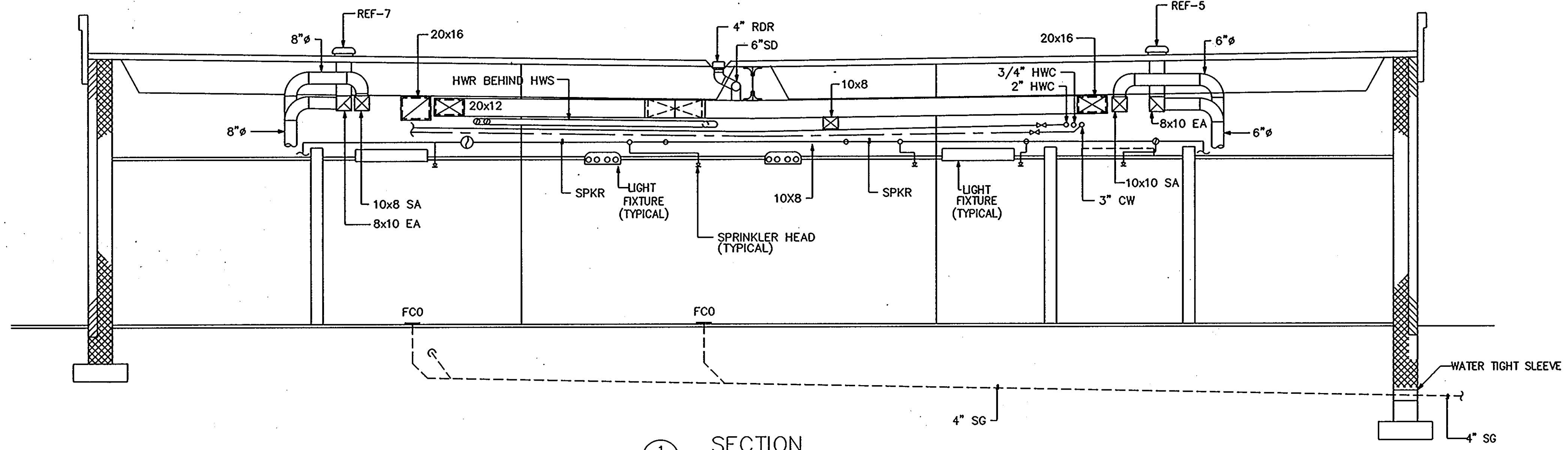
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FIRST FLOOR PLAN - HVAC POLICE STATION PHASE 1	56 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. M4.2



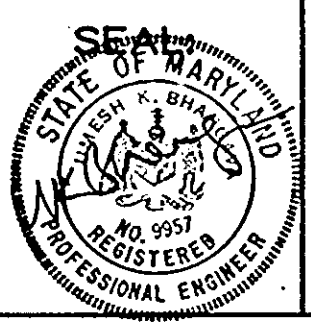
SECTION
 M3.2, M4.2, M5.2 SCALE: 1/4"=1'-0"

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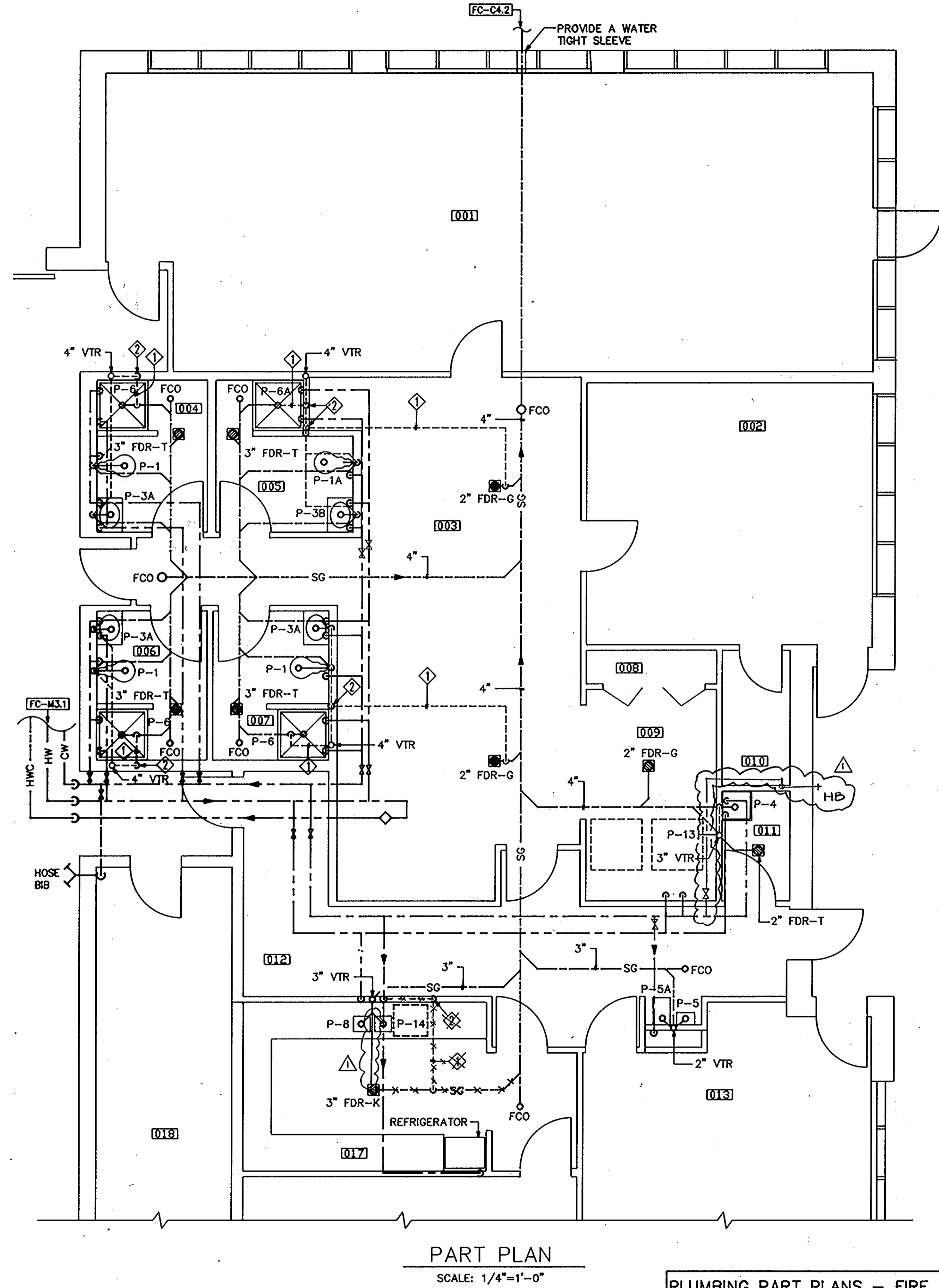
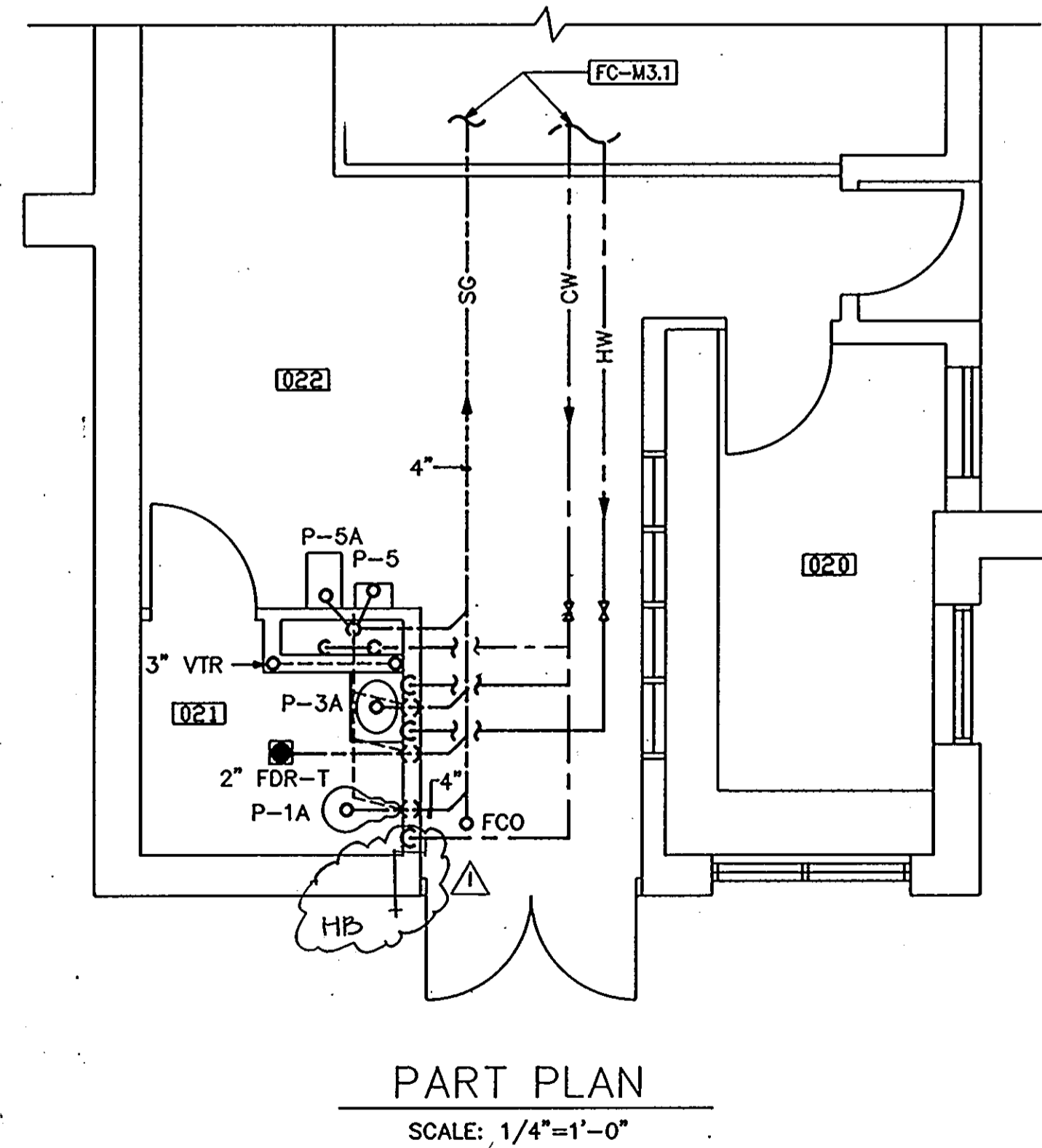
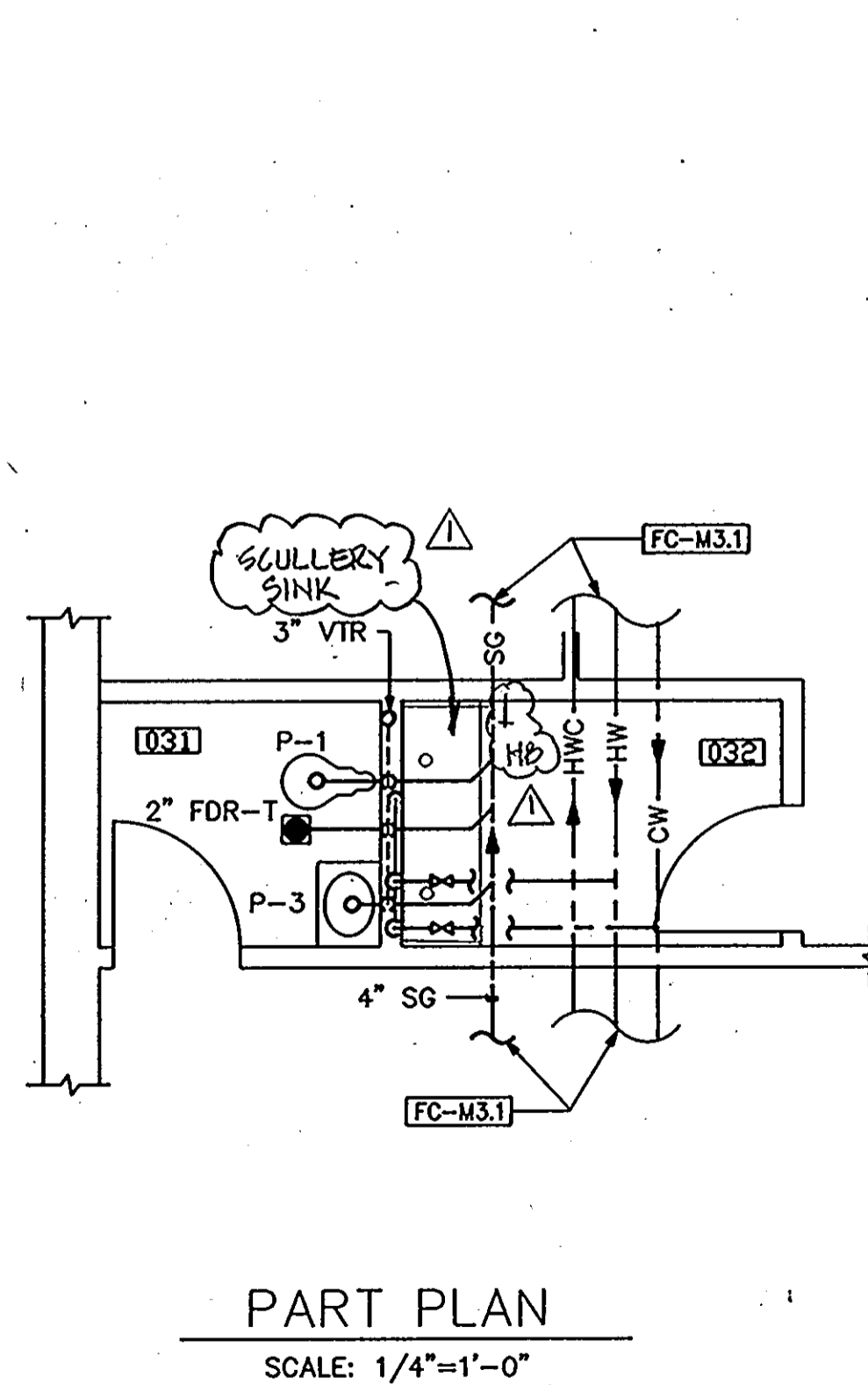
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SECTIONS POLICE STATION - PHASE 1	58 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. M5.2

NO	FIXTURE	ROUGH-IN CONNECTION IN INCHES				FIXTURE UNITS			REMARKS
		CW	HW	SAN	VENT	CW	HW	SAN	
P-1	WATER CLOSET	1	-	4	1 1/2	10	-	6	FLOOR MOUNTED
P-1A	WATER CLOSET	1	-	4	1 1/2	10	-	6	FLOOR MOUNTED HANDICAPPED
P-1B	WATER CLOSET	1	-	4	1 1/2	10	-	6	WALL MOUNTED HANDICAPPED
P-2	URINAL	3/4	-	2	1 1/2	5	-	4	WALL MOUNTED
P-3A	LAVATORY	1/2	1/2	1 1/2	1 1/2	1.5	1.5	2	COUNTER TOP
P-3B	LAVATORY	1/2	1/2	1 1/2	1 1/2	1.5	1.5	2	COUNTER TOP HANDICAPPED
P-3C	LAVATORY	1/2	1/2	1 1/2	1 1/2	1.5	1.5	2	REFER ARCH. DRAWINGS
P-4	SERVICE SINK	3/4	3/4	3	1 1/2	2.5	2.5	3	-
P-5	ELECTRIC WATER COOLER	1/2	-	1 1/4	1 1/2	2	-	1/2	WALL MOUNTED
P-5A	ELECTRIC WATER COOLER	1/2	-	1 1/4	1 1/2	2	-	1/2	WALL MOUNTED HANDICAPPED
P-6	SHOWER STALL	1/2	1/2	2	1 1/2	1.5	1.5	2	REFER ARCH. DRAWINGS
P-6A	SHOWER STALL	1/2	1/2	2	1 1/2	1.5	1.5	2	REFER ARCH. DRAWINGS
P-7	SINK, SINGLE-BOWL	1/2	1/2	2	1 1/2	1.5	1.5	2	-
P-8	SINK, DOUBLE BOWL	1/2	1/2	2	1 1/2	1.5	1.5	2	-
P-12	COMBINATION WC-LAV UNIT	1/2	1/2	2	1 1/2	10	1.5	8	SECURITY FIXTURE
P-12A	COMBINATION WC-LAV UNIT	1/2	1/2	2	1 1/2	10	1.5	8	HANDICAPPED SECURITY FIXTURE
P-13	CLOTHES WASHER	1/2	1/2	1 1/2	1 1/2	1.5	1.5	2	REFER ARCH. DRAWINGS
P-14	DISH WASHER	-	1/2	1 1/2	-	-	2	2	REFER ARCH. DRAWINGS

DRAWING NOTES:

- ◇ VENT PIPE BELOW FLOOR.
- ◊ VENT PIPE UP THROUGH FLOOR. ROUTE INSIDE WALL.

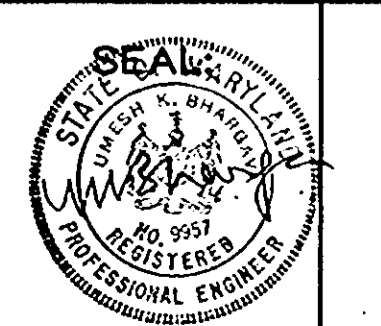


PLUMBING PART PLANS - FIRE STATION AND PLUMBING FIXTURE SCHEDULE	59 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92
	DRAWING NO. M6.1

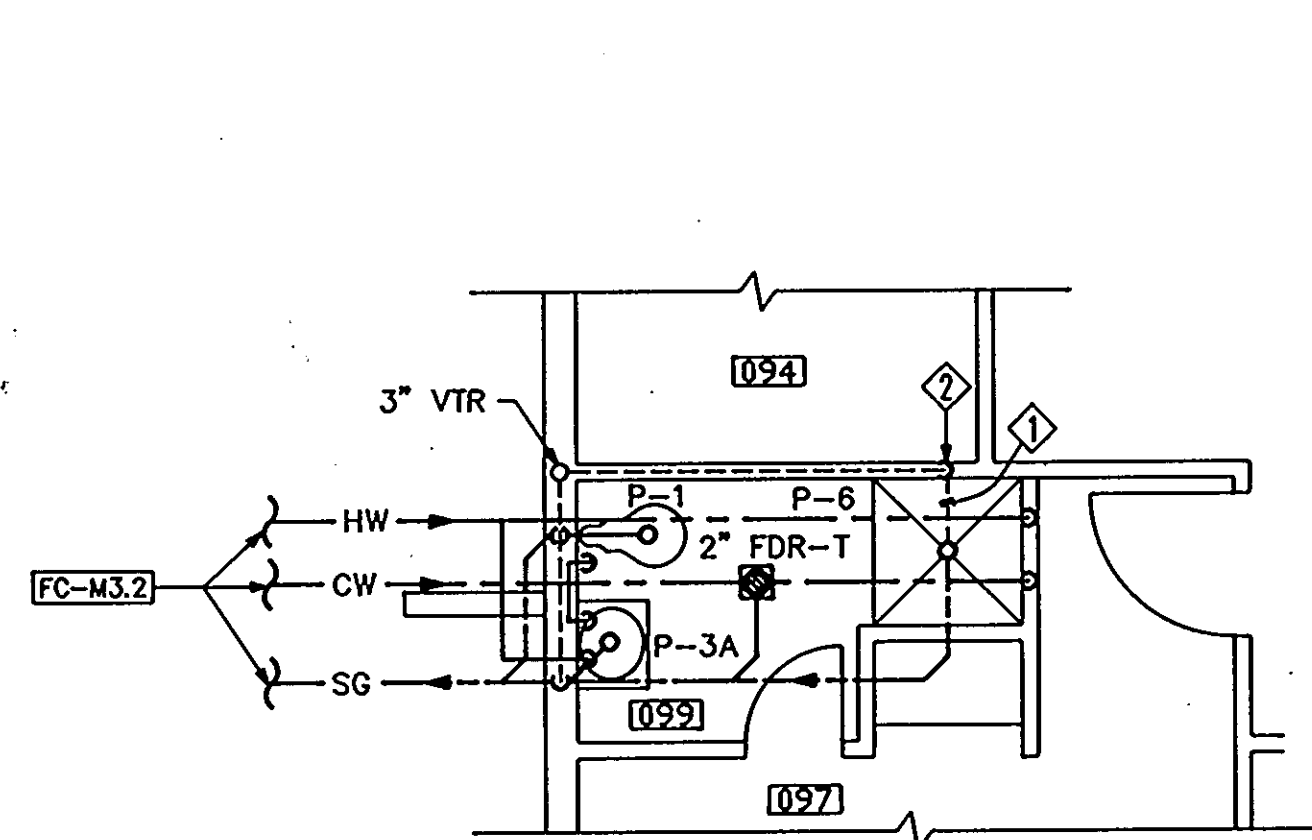
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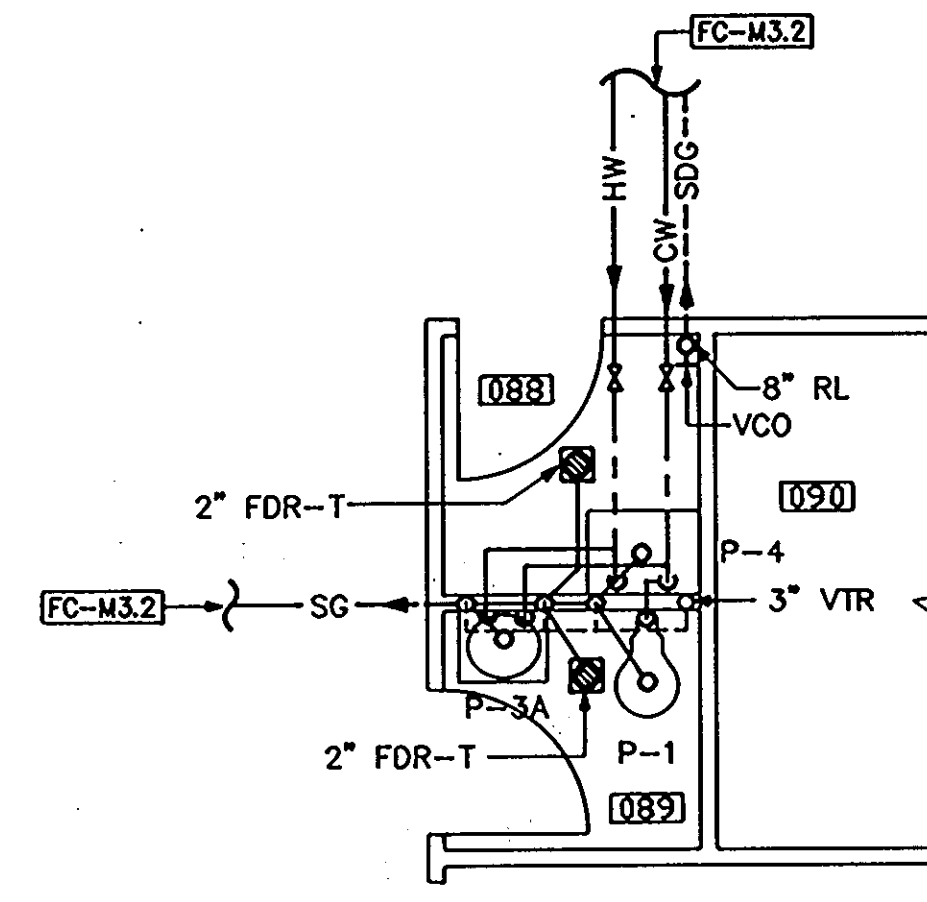
CIVIL & GEOTECH ENGINEER:	E B A ENGINEERING, INC.
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MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING



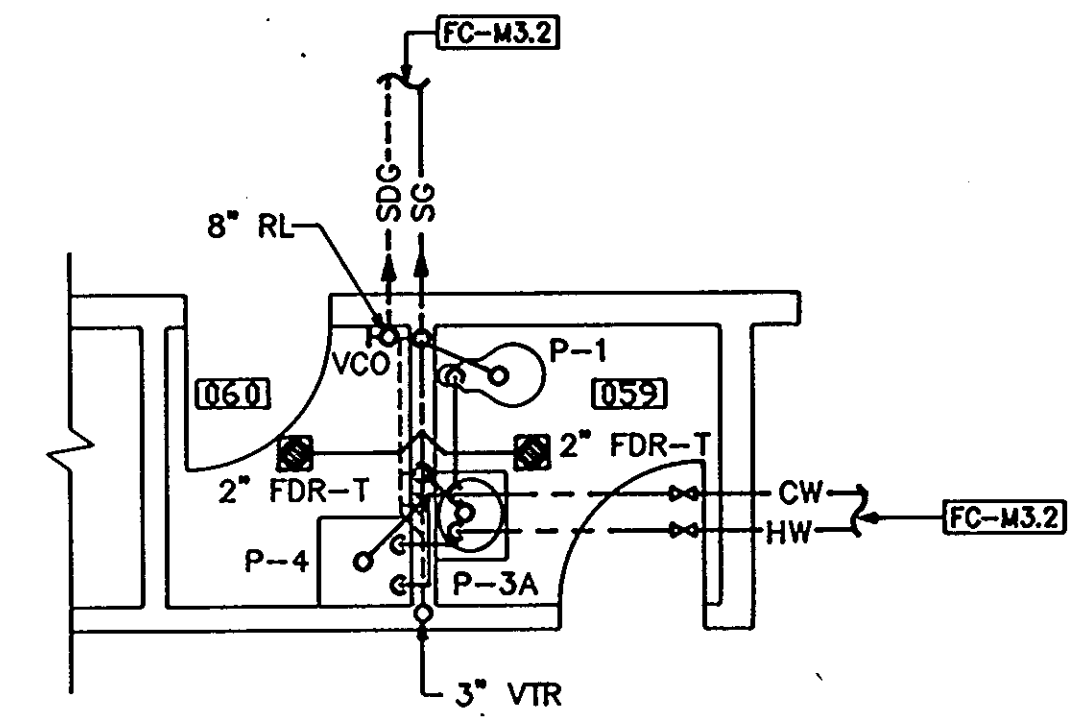
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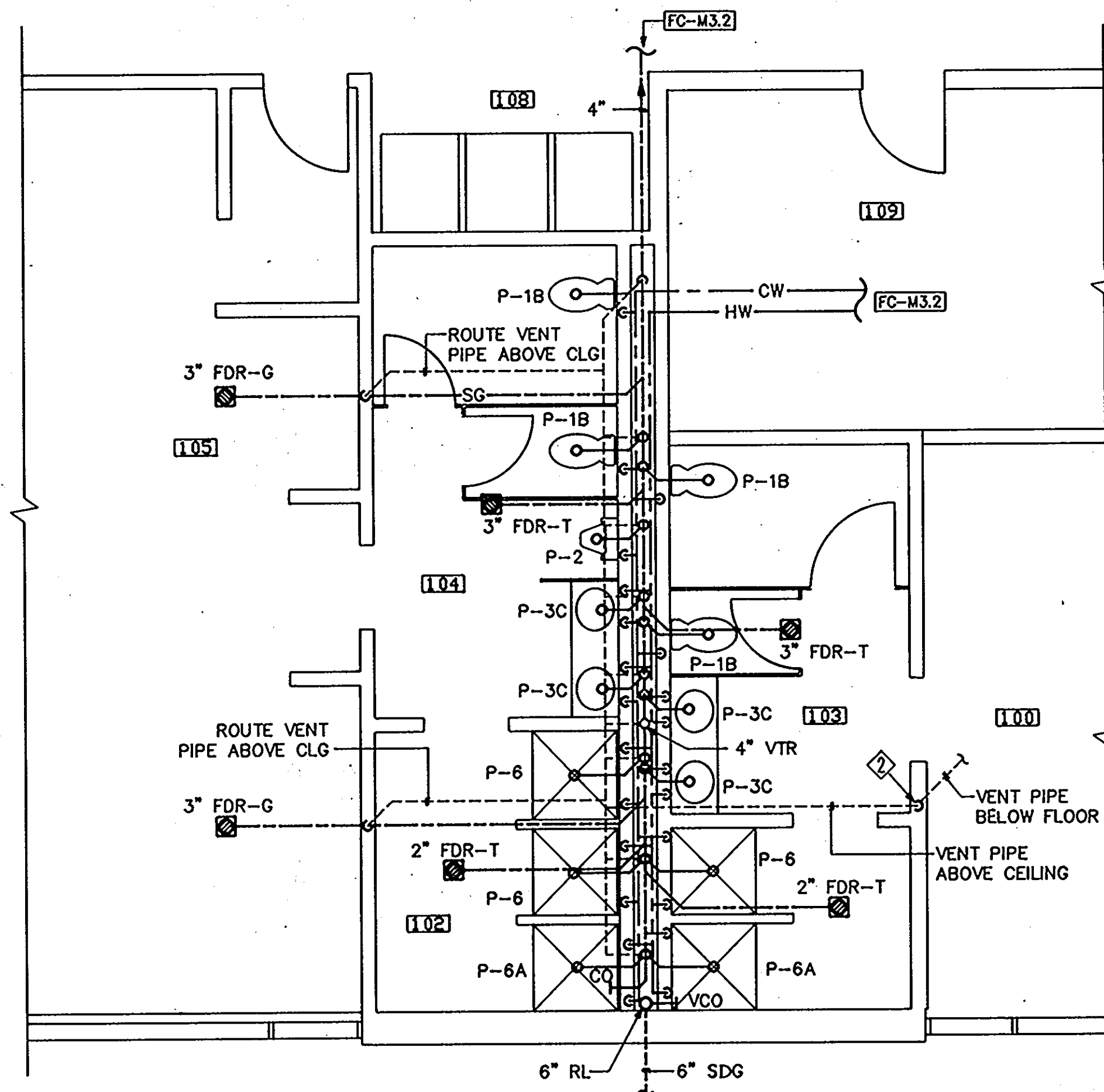
PART PLAN
SCALE 1/4"=1'-0"



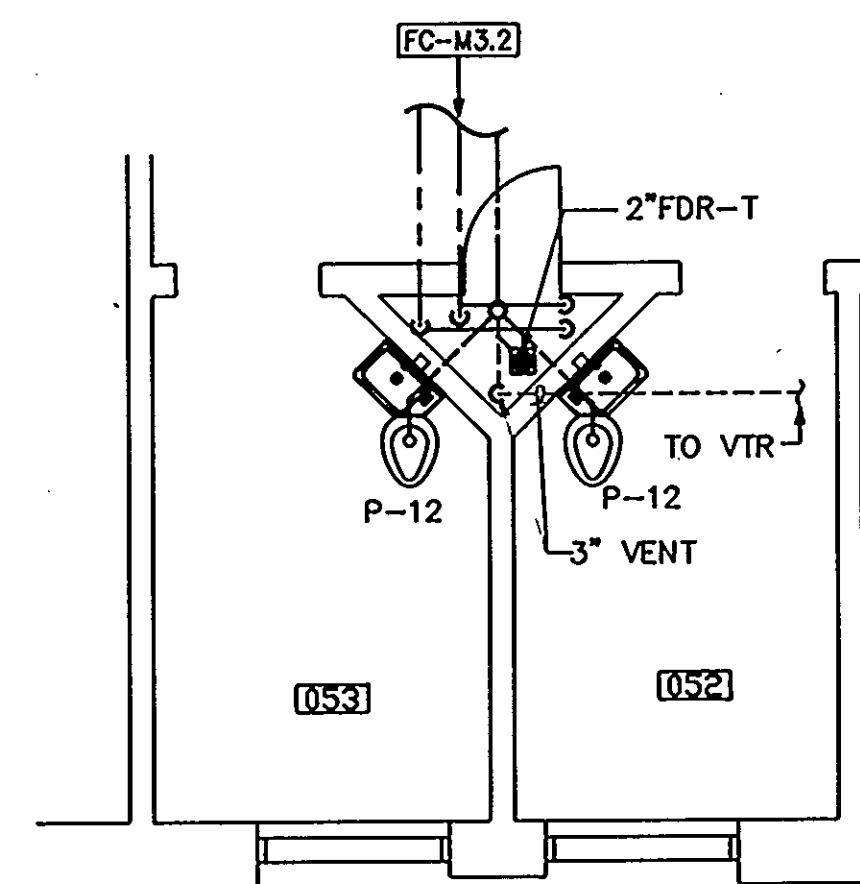
PART PLAN
SCALE 1/4"=1'-0"



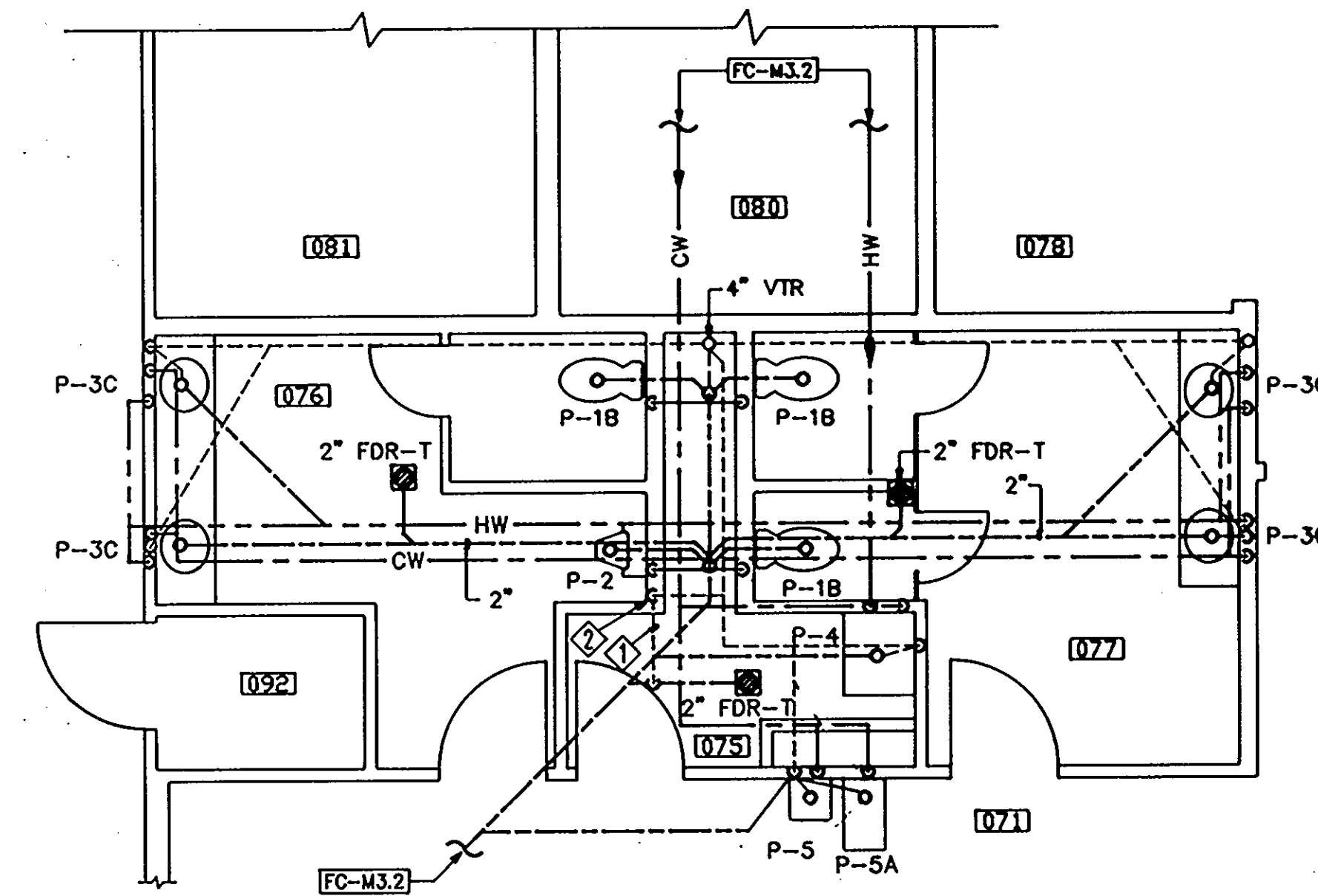
PART PLAN
SCALE 1/4"=1'-0"



PART PLAN
SCALE 1/4"=1'-0"



PART PLAN (TYPICAL)
SCALE 1/4"=1'-0"



PART PLAN
SCALE 1/4"=1'-0"

- DRAWING NOTES:
- ◇ VENT PIPE BELOW FLOOR.
 - ◇ VENT PIPE UP THROUGH FLOOR. ROUTE INSIDE WALL.

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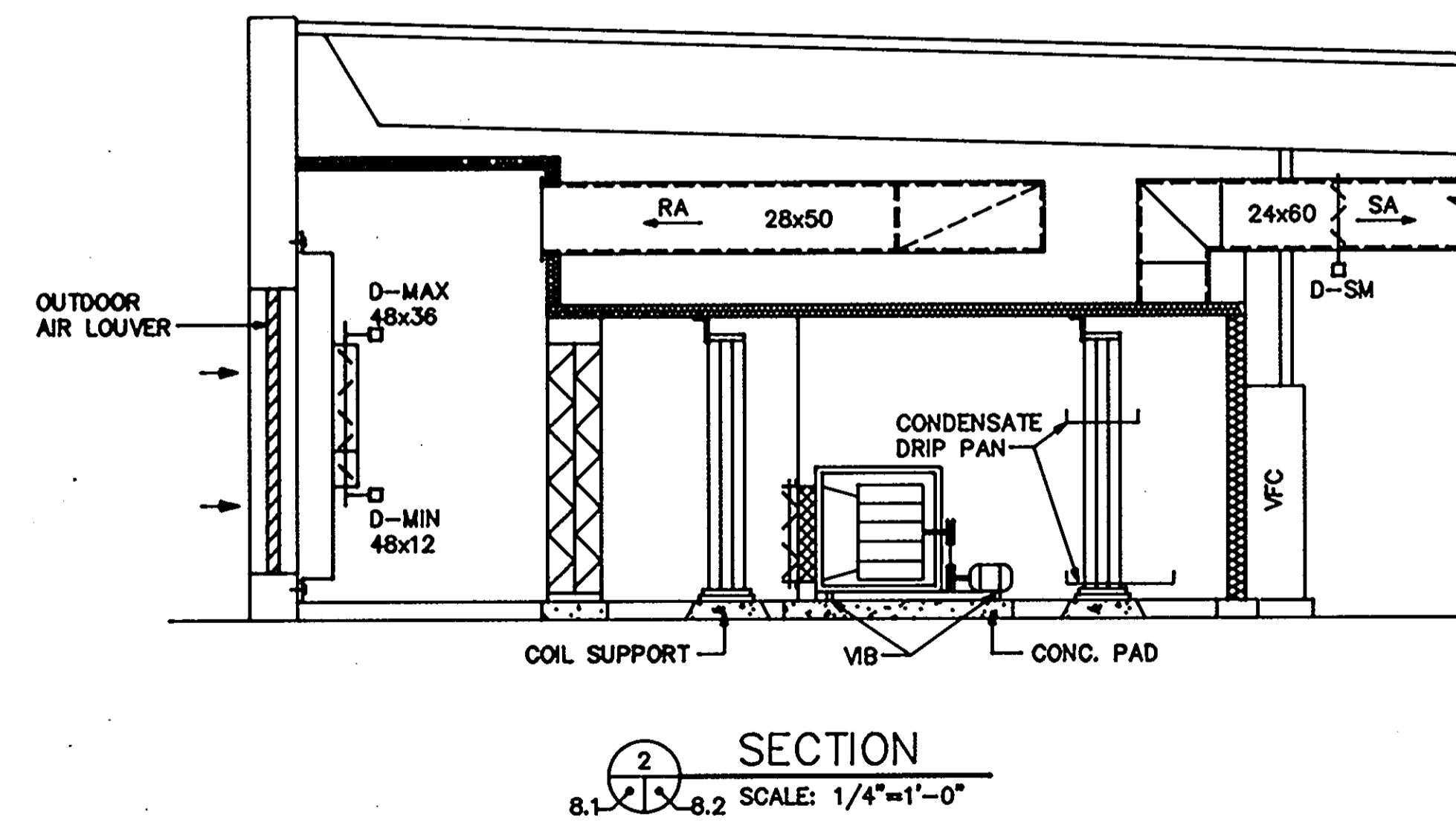
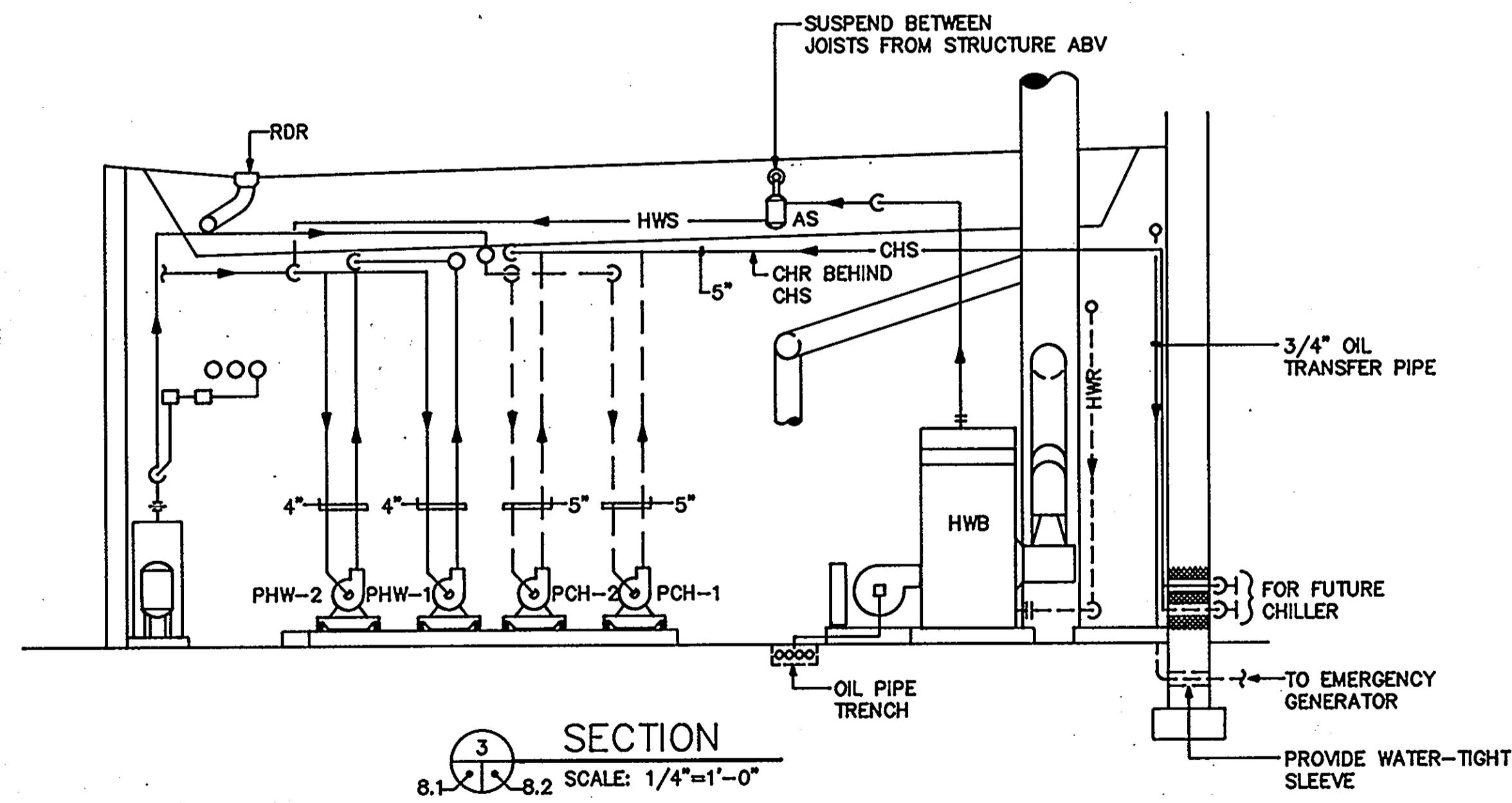
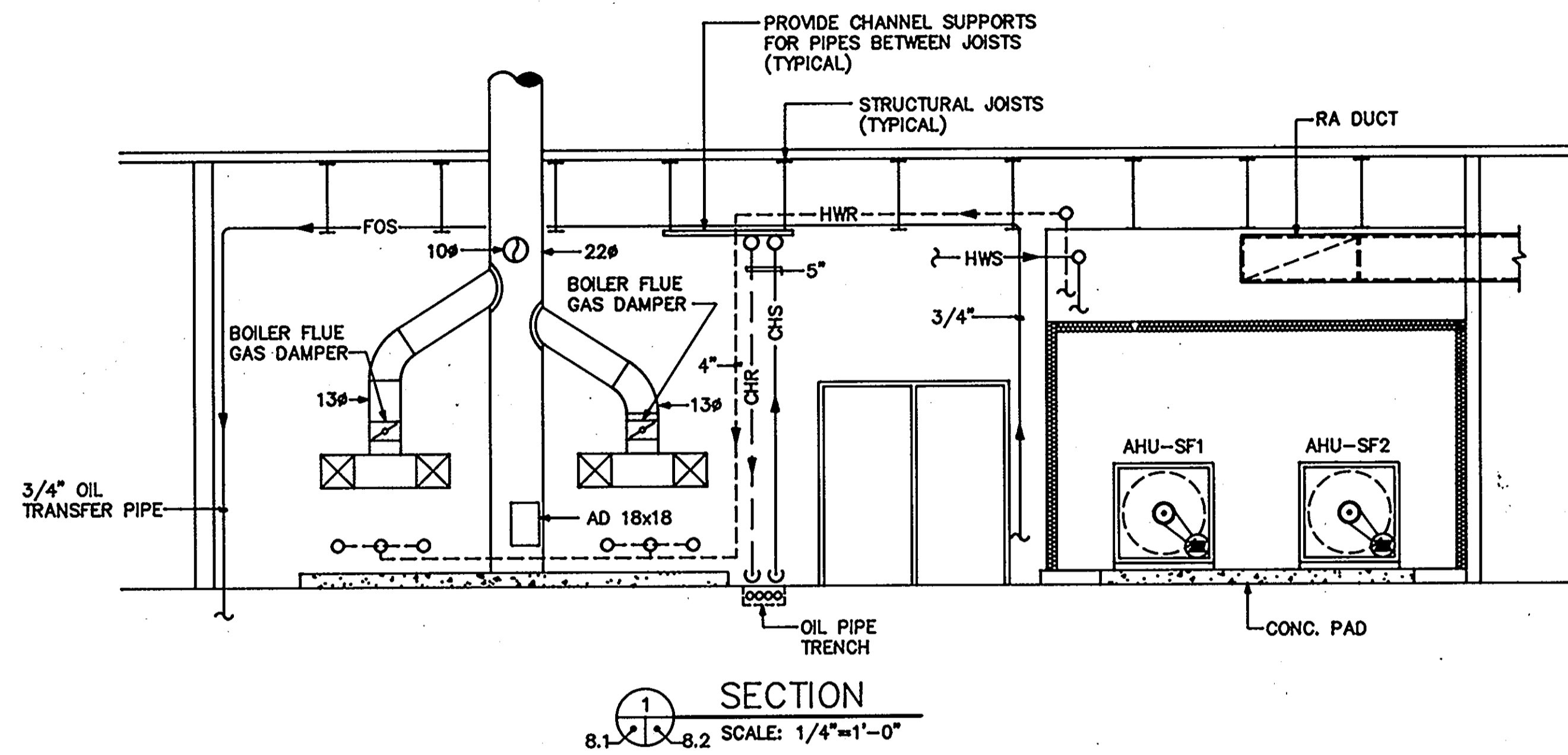
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MECHANICAL & ELECTRICAL ENGINEER:
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PLUMBING PART PLANS POLICE STATION PHASE 1	60 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
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MECHANICAL ROOM SECTIONS	64 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. M8.2

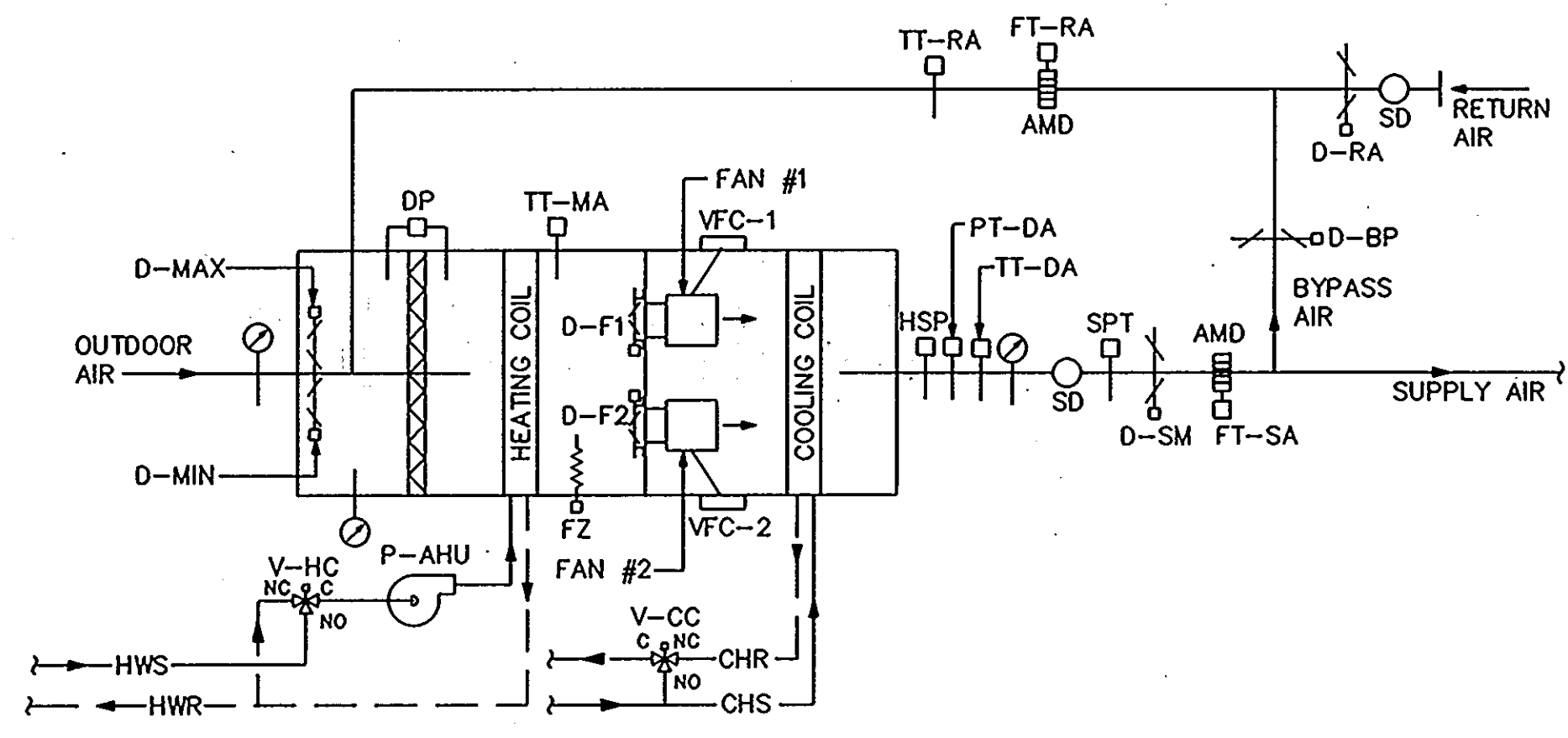
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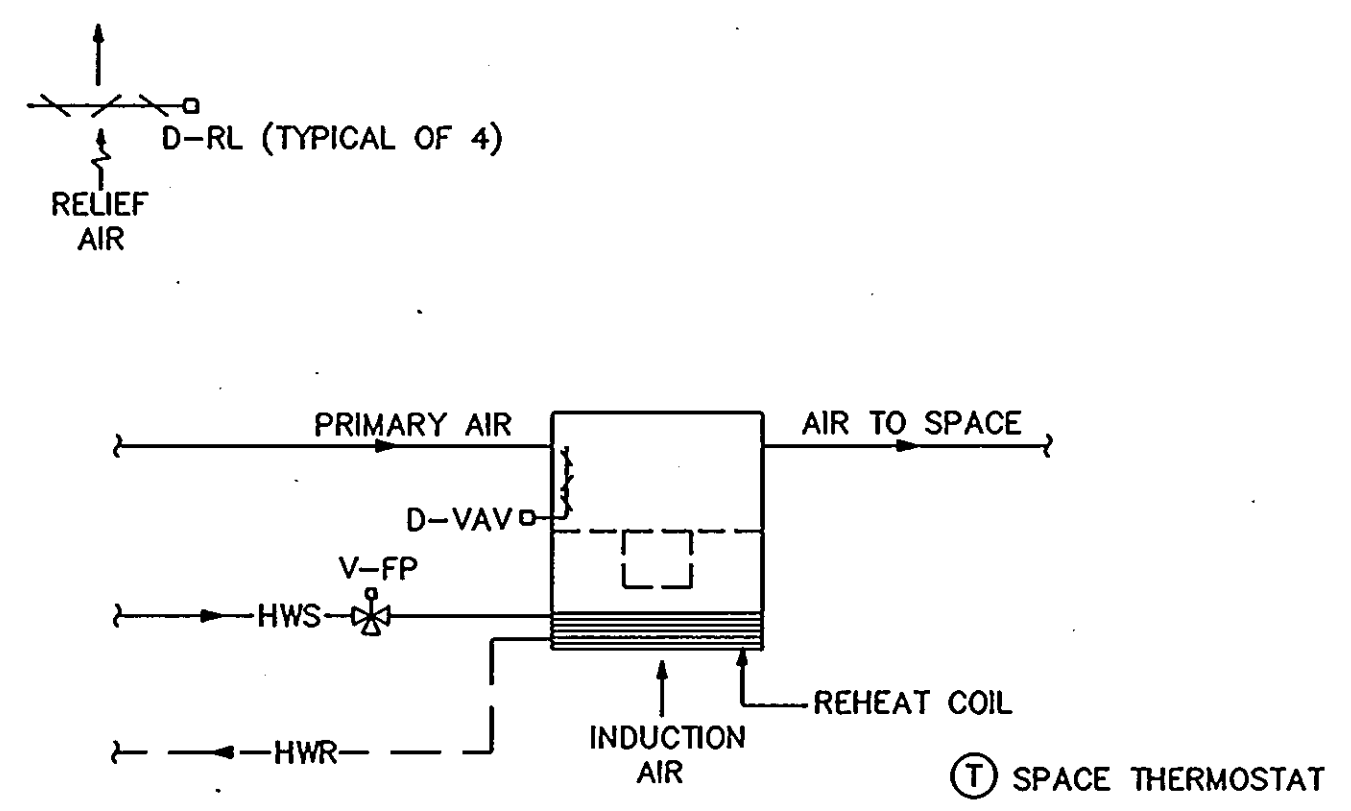
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MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING



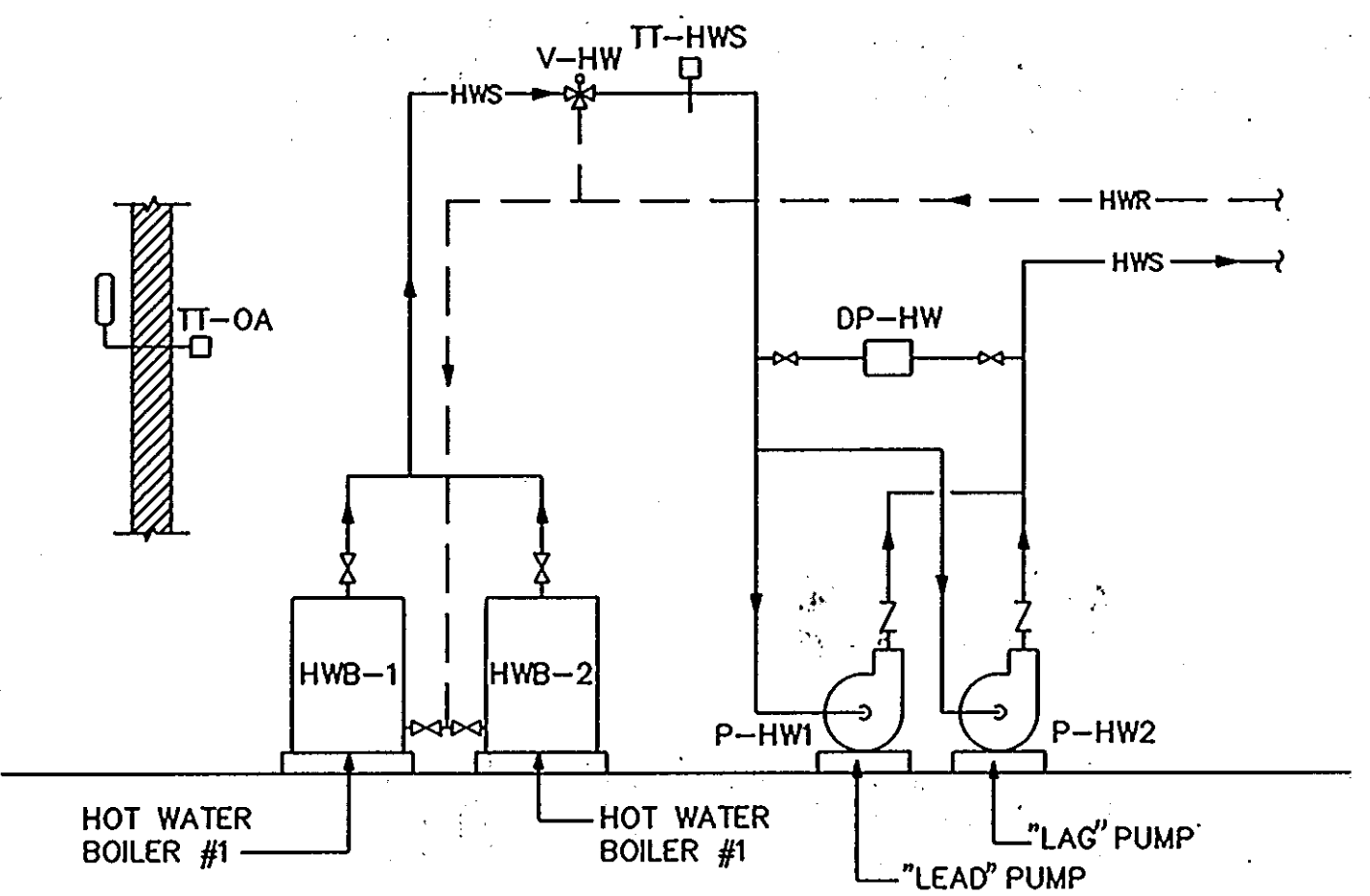
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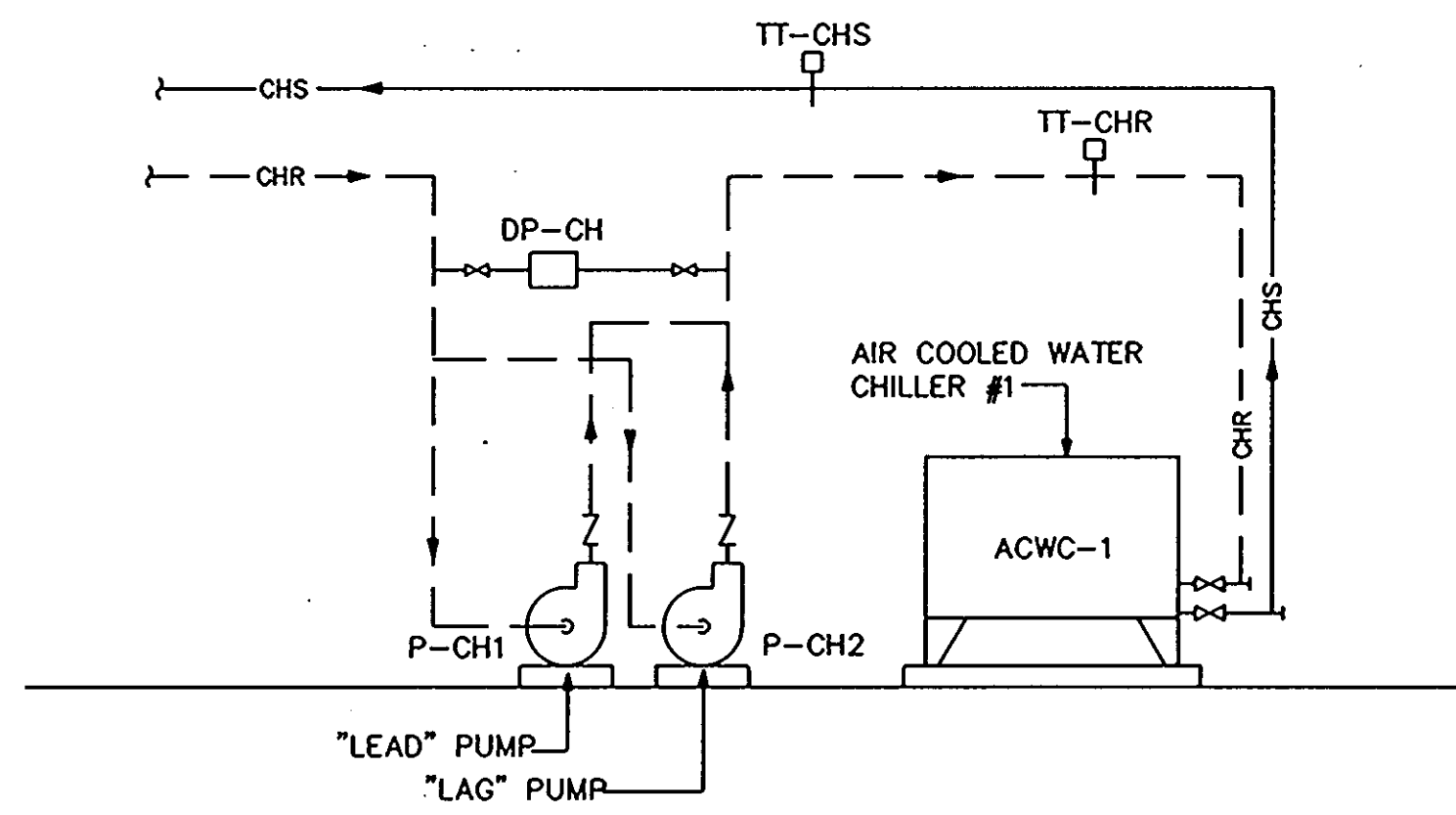
AIR HANDLING UNIT (AHU)
NOT TO SCALE



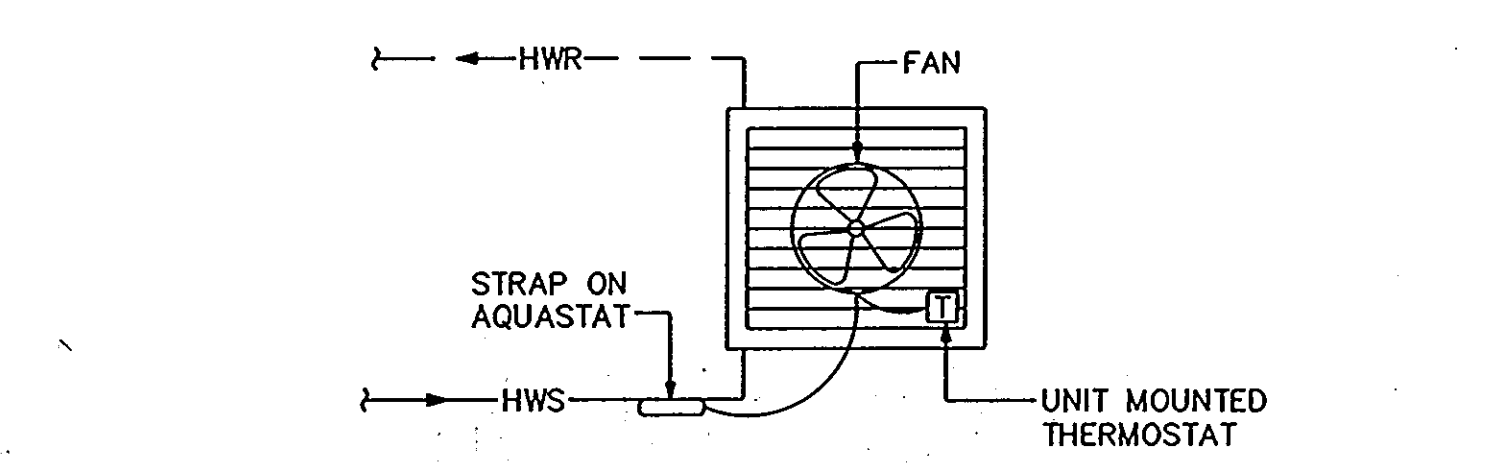
FAN POWERED VAV TERMINAL UNIT
NOT TO SCALE



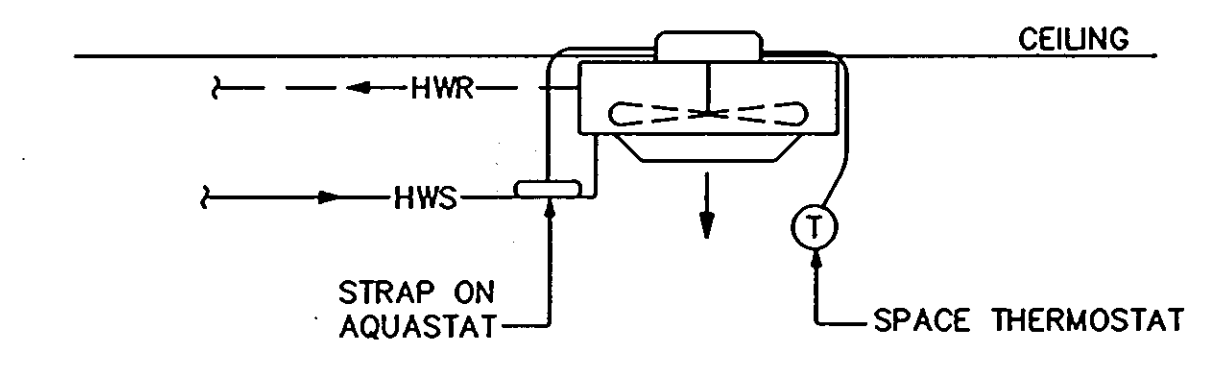
HEATING HOT WATER SYSTEM
NOT TO SCALE



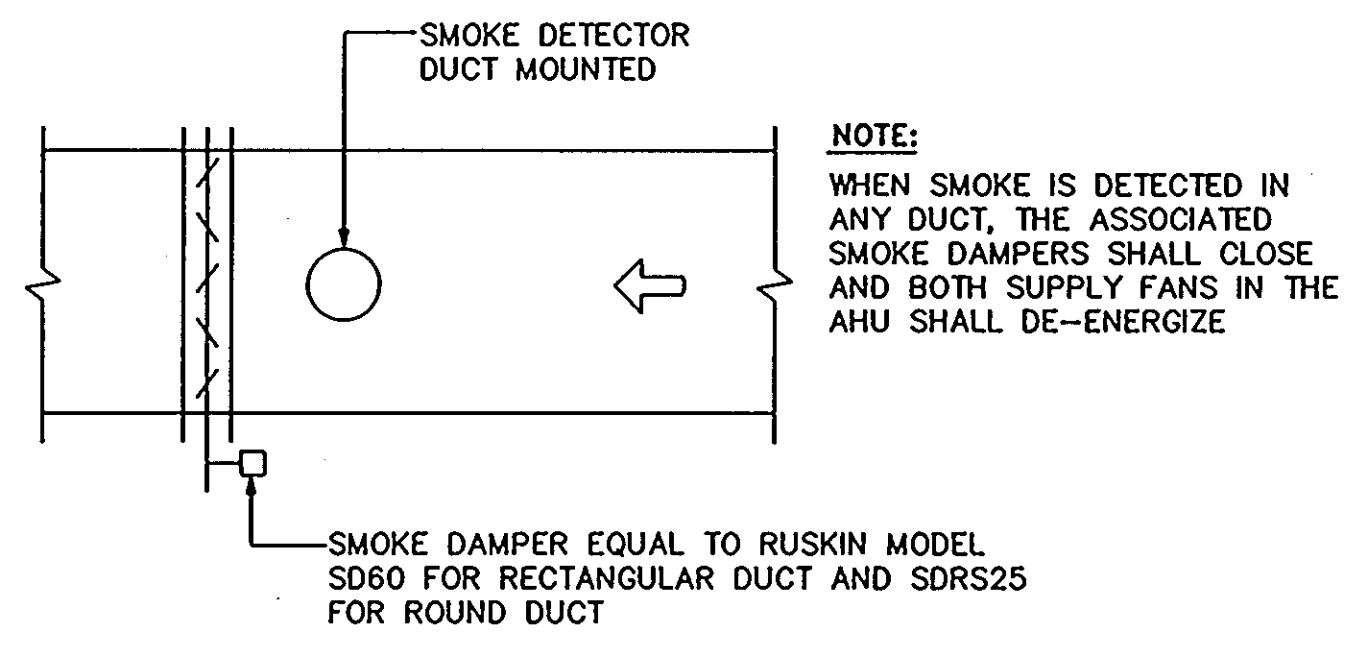
CHILLED WATER SYSTEM
NOT TO SCALE



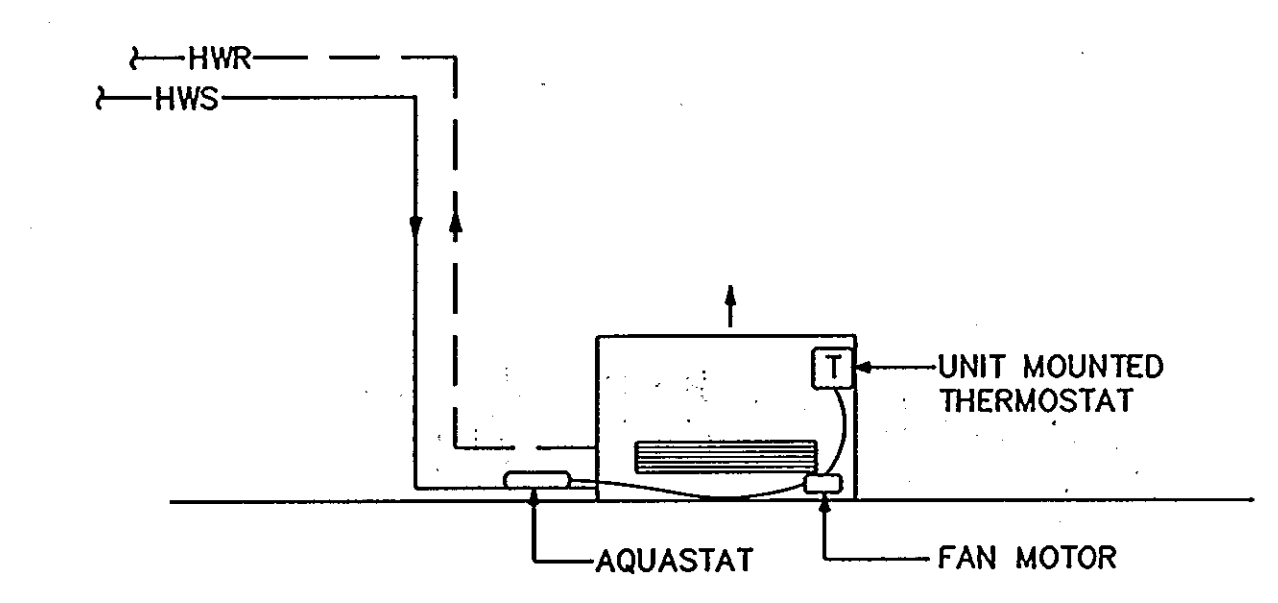
HORIZONTAL UNIT HEATER (UH-1) CONTROL
NOT TO SCALE



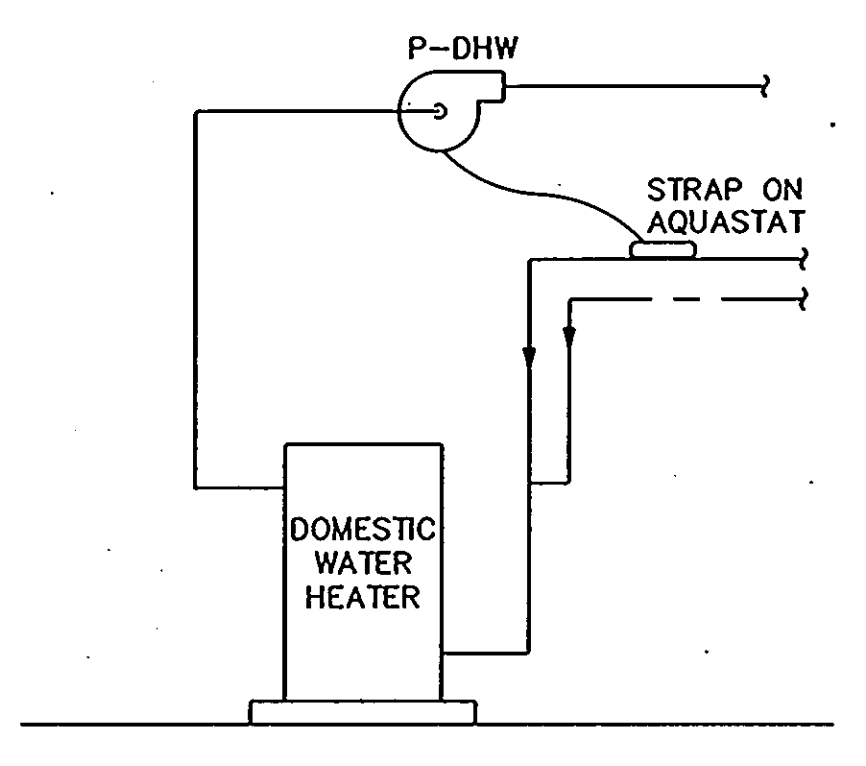
DOWN FLOW UNIT HEATER (UH-2) CONTROL
NOT TO SCALE



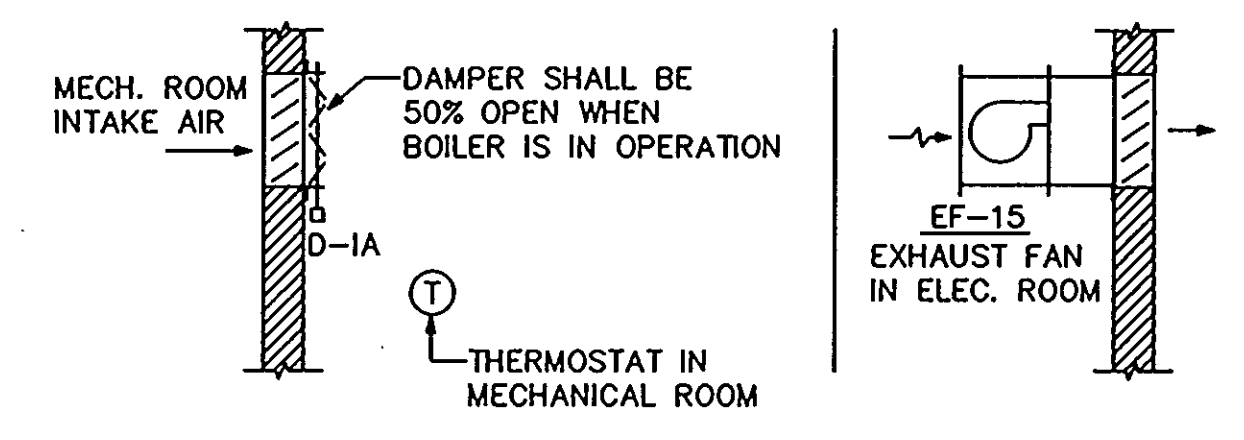
SMOKE DAMPER CONTROL
NOT TO SCALE



CABINET UNIT HEATER (CUH-1) CONTROL
NOT TO SCALE



DOMESTIC HOT WATER HEATER
NOT TO SCALE



MECHANICAL AND ELECTRICAL ROOM VENTILATION CONTROL
NOT TO SCALE

SYSTEM, APPARATUS, OR AREA POINT DESCRIPTION	ANALOG		BINARY	DIGITAL		SYSTEM FEATURES		GENERAL	SUPPLEMENTARY NOTES
	MEASURED	CALC.		ANALOG	ALARMS	PROGRAMS	GENERAL		
	TEMPERATURE	RELATIVE HUMIDITY	STATUS	OFF-AUTO-ON	VALVE POSITION	TIME SCHEDULING	INTEGRAL CONTROL		
AHU									
OUTDOOR AIR									
RETURN AIR									
BYPASS AIR									
DISCHARGE AIR									
FAN/VFC									
RELIEF AIR									
MIXED AIR TEMP									
V-HC									
P-AHU									
V-CC									
HW SYSTEM									
V-HW									
P-HW1/P-HW-2									
HWB									
CH SYSTEM									
P-CH1/P-CH2									
ACWC									

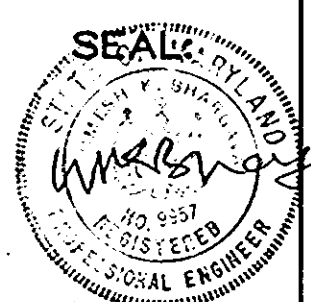
SYMBOL	ABBREVIATION	DESCRIPTION
	FT	FLOW TRANSMITTER
	T-X	THERMOSTAT IN PIPE OR DUCT
	TT-X/PT-X	TEMPERATURE TRANSMITTER/PNEUMATIC
	HSP	HIGH LIMIT STATIC PRESSURE
	SP / SPT	STATIC PRESSURE SENSOR / TRANSMITTER
		ROOM OR SPACE THERMOSTAT
		UNIT MOUNTED THERMOSTAT
		DUCT OR PIPE THERMOSTAT
	SD	SMOKE DETECTOR
	DP-X	DIFFERENTIAL PRESSURE SWITCH
	V-X	MOTOR OPERATED VALVE (2 WAY)
	V-X	MOTOR OPERATED VALVE (3 WAY)
	D-X	MOTOR OPERATED DAMPER
	VFC-X	VARIABLE FREQUENCY CONTROL
	FZ	FREEZESTAT
	HC, CC	HEATING COIL, COOLING COIL
	AMD	AIR FLOW MONITORING DEVICE

AUTOMATIC TEMPERATURE CONTROL DIAGRAMS

65 OF 90

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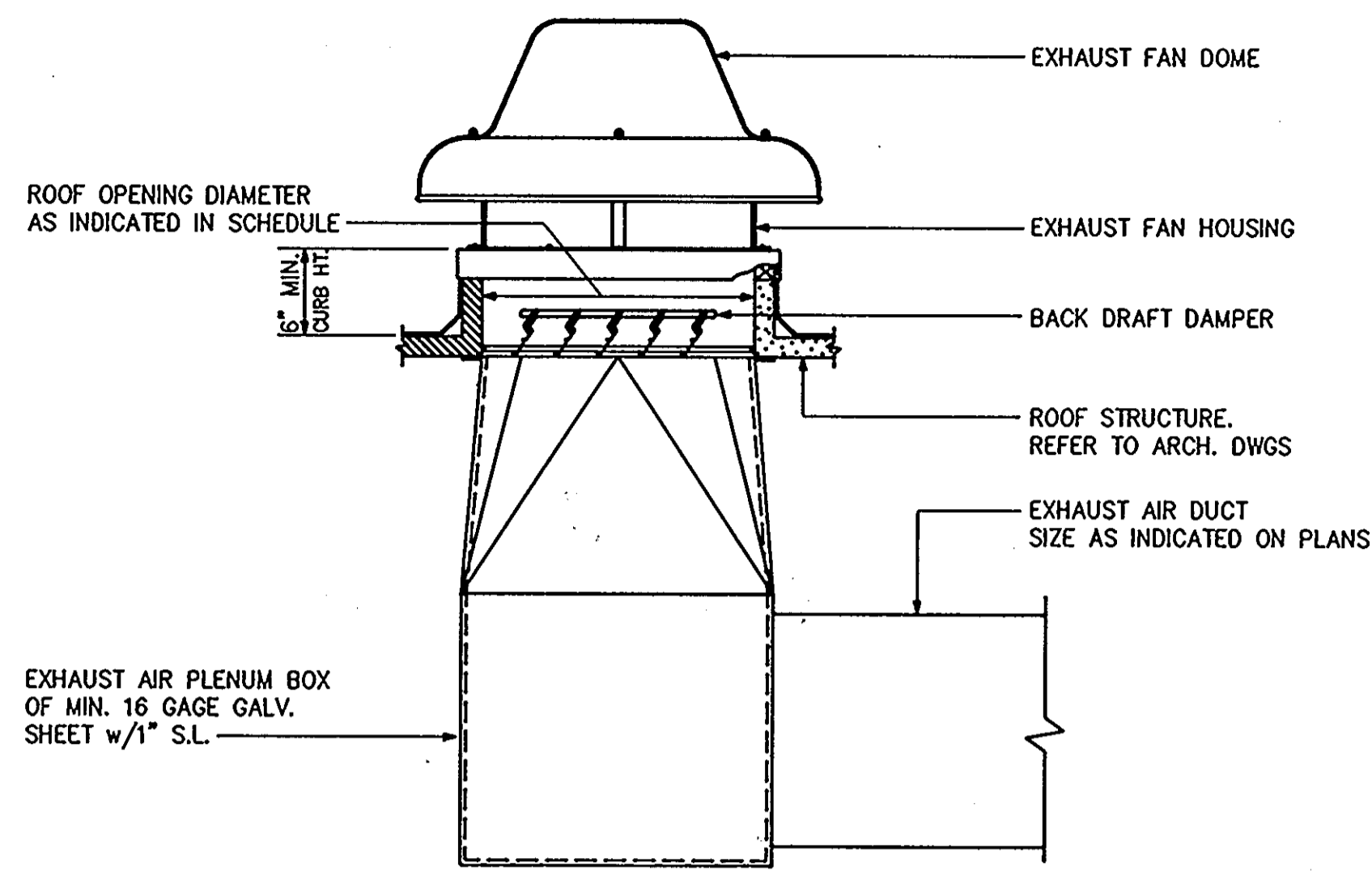
IN ASSOCIATION WITH:
 CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
 STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
 FIRE PROTECTION ENGINEER: STANTON ENGINEERING



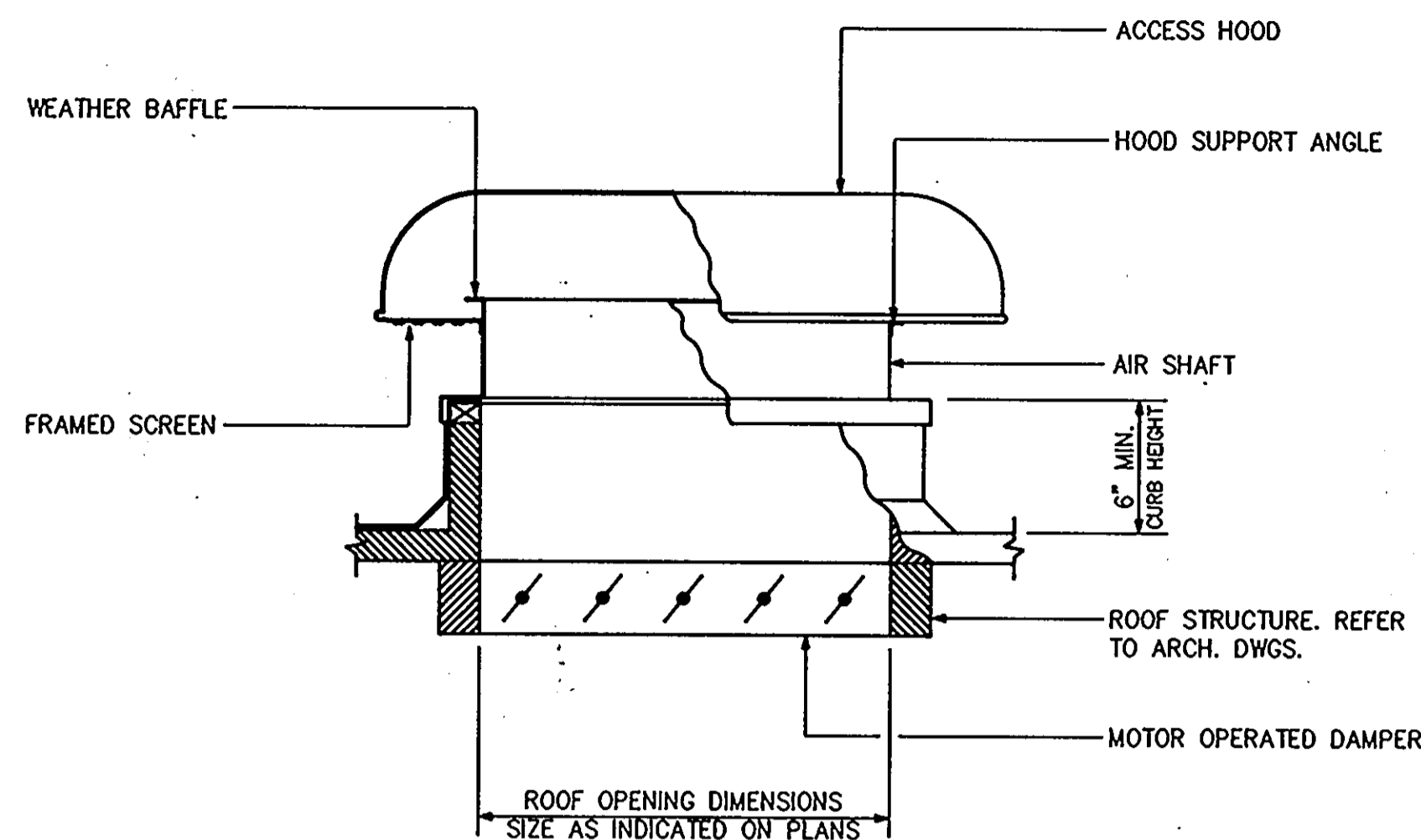
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HOWARD COUNTY PUBLIC SAFETY COMPLEX
SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD 20707

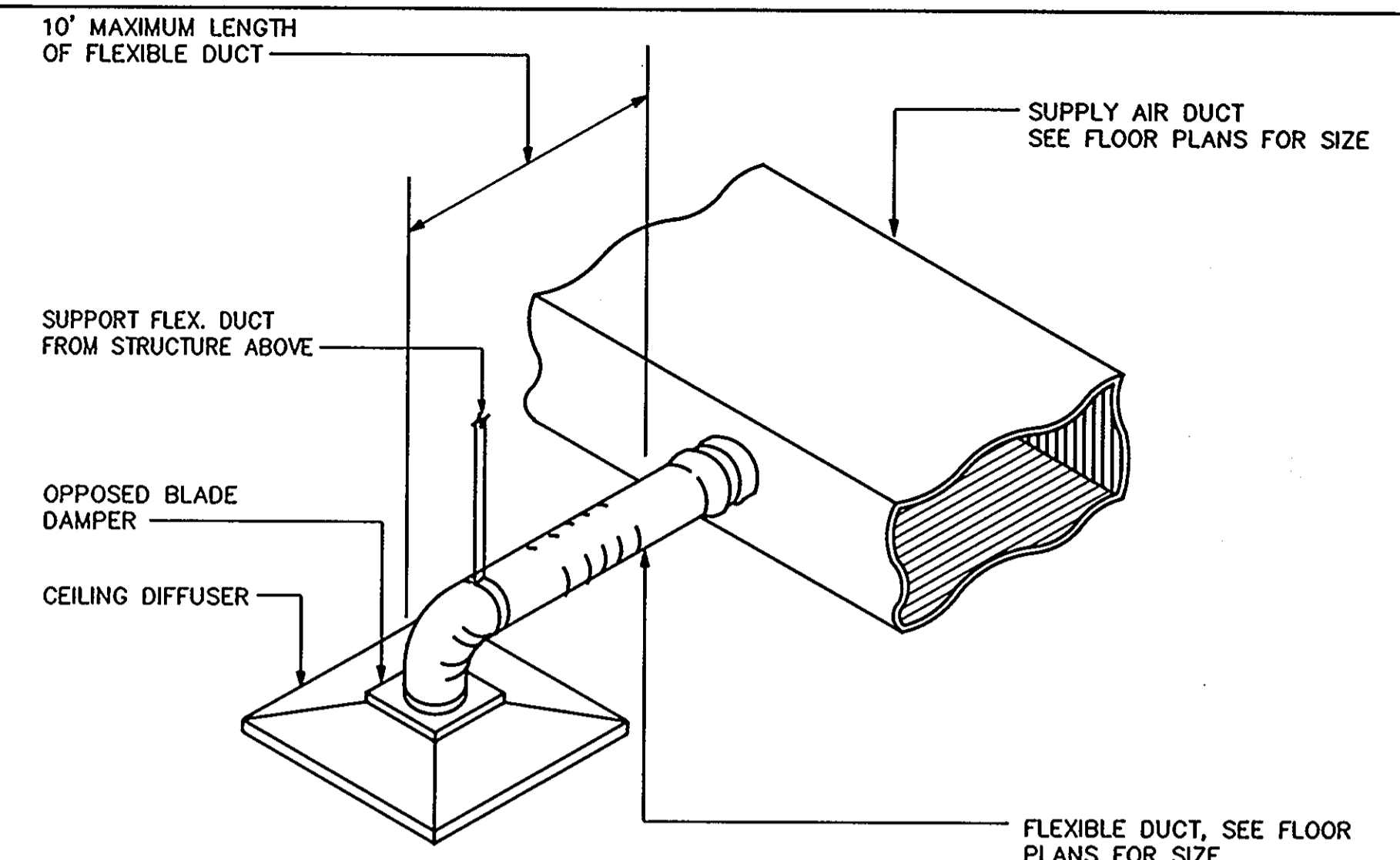
CAPITAL PROJECT NO. C - 0227
DATE: 3/25/92
DRAWING NO. M9.1



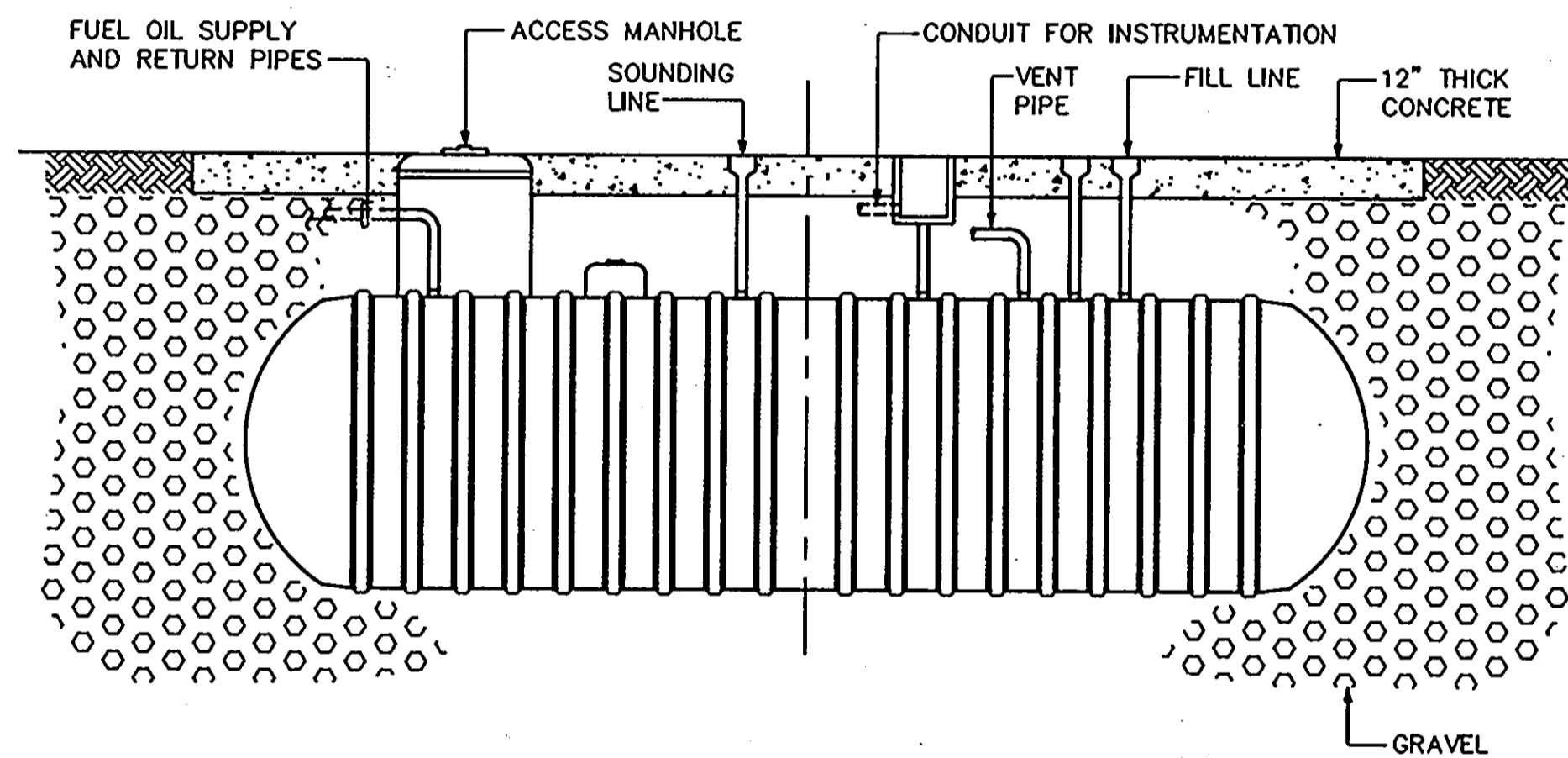
ROOF VENTILATOR TYPE EXHAUST FAN MOUNTING DETAIL
NOT TO SCALE DRYTEFMD



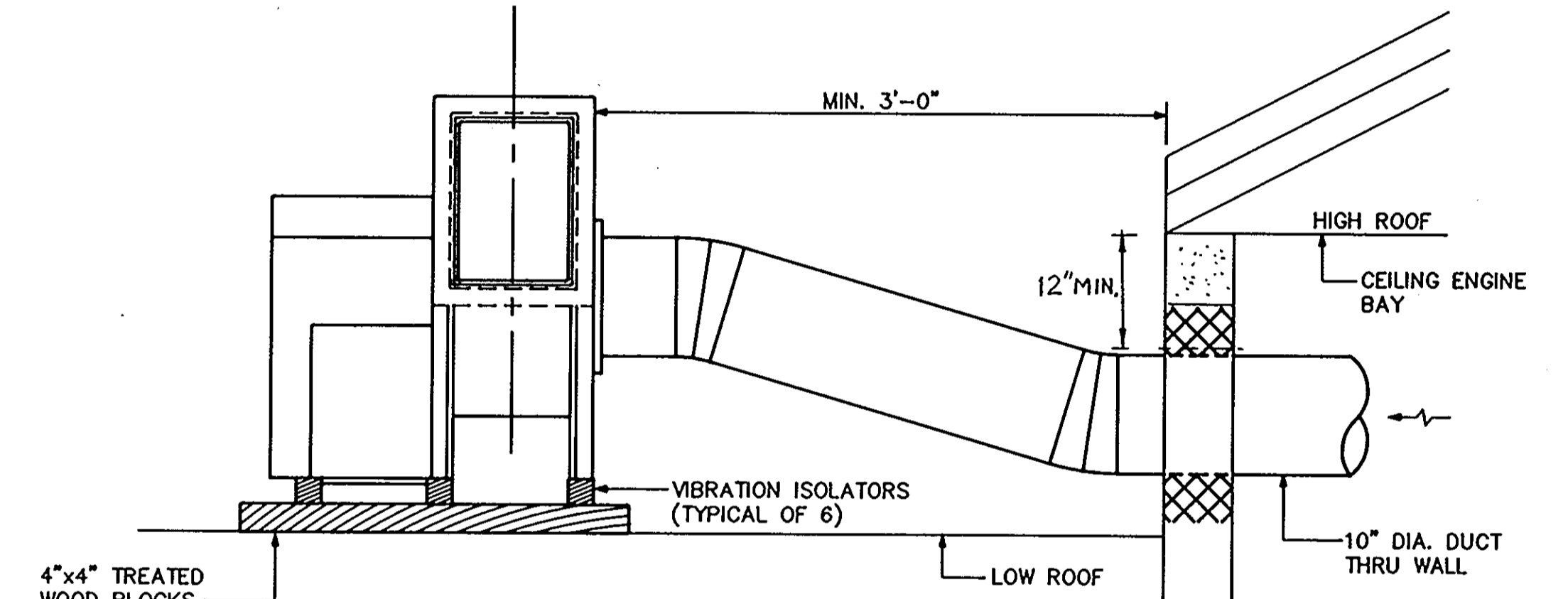
RELIEF AIR VENTILATOR MOUNTING ARRANGEMENT
NOT TO SCALE DRAYMA



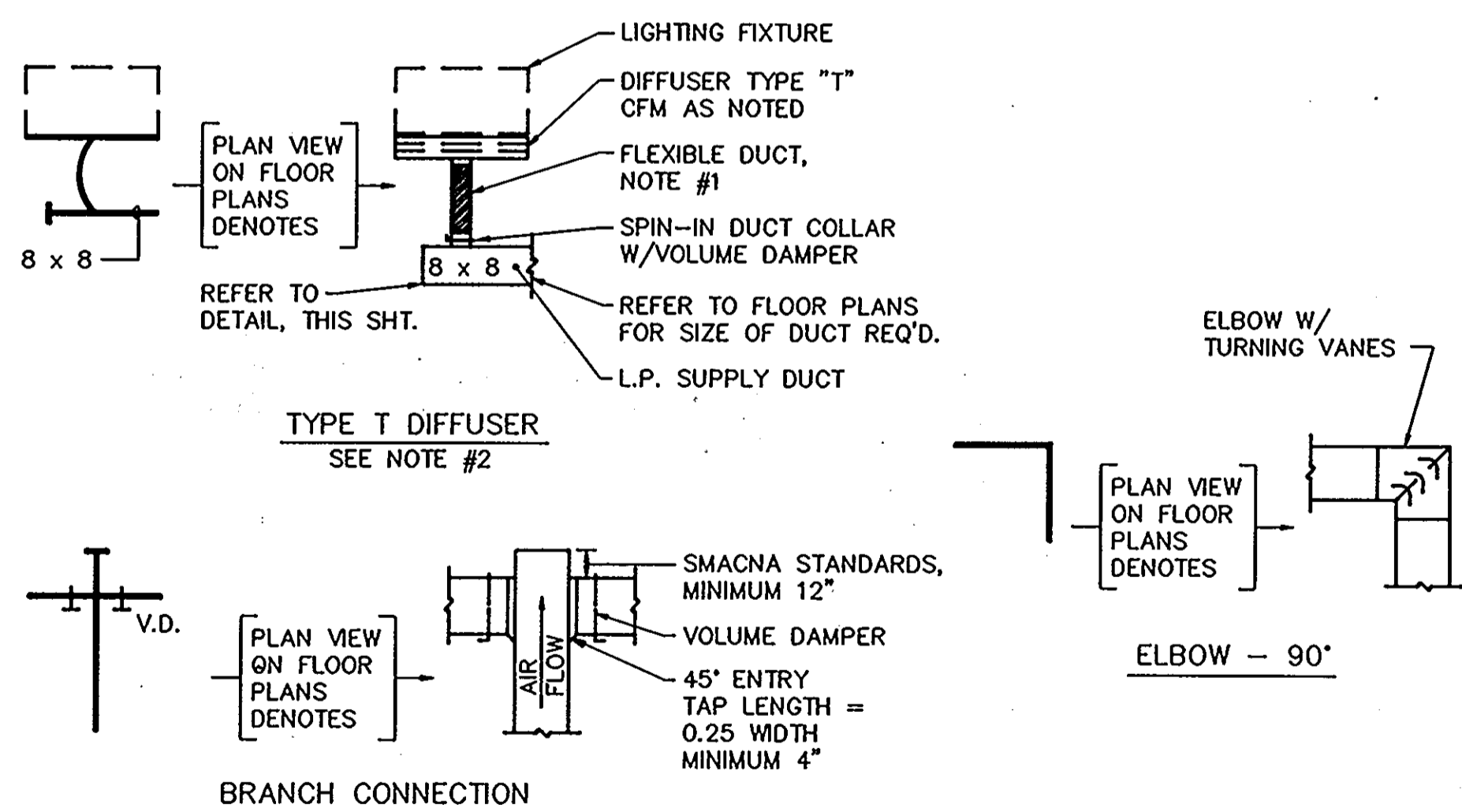
CEILING DIFFUSER HOOK-UP DETAIL
NOT TO SCALE DCDHUD



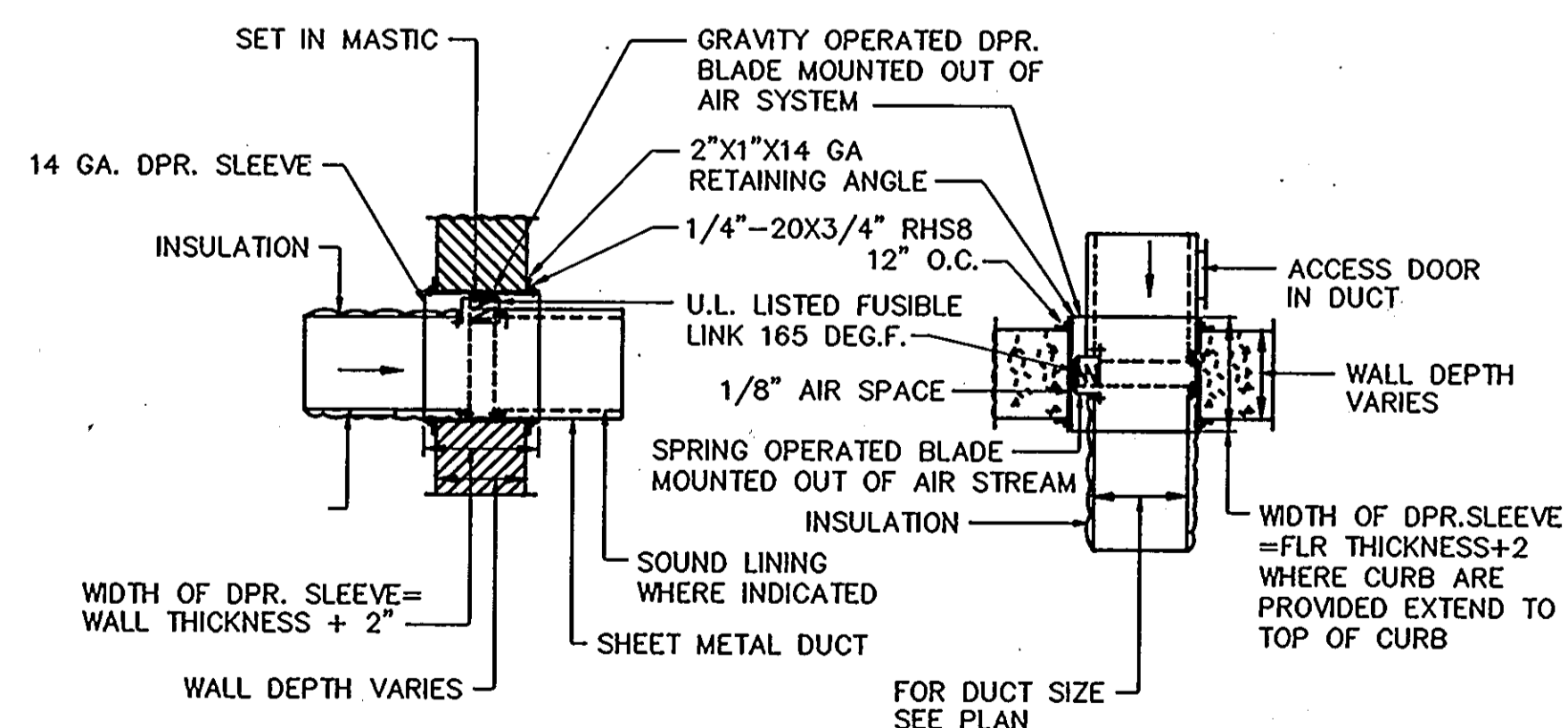
UNDER GROUND FUEL OIL STORAGE TANK
NOT TO SCALE DUFOST



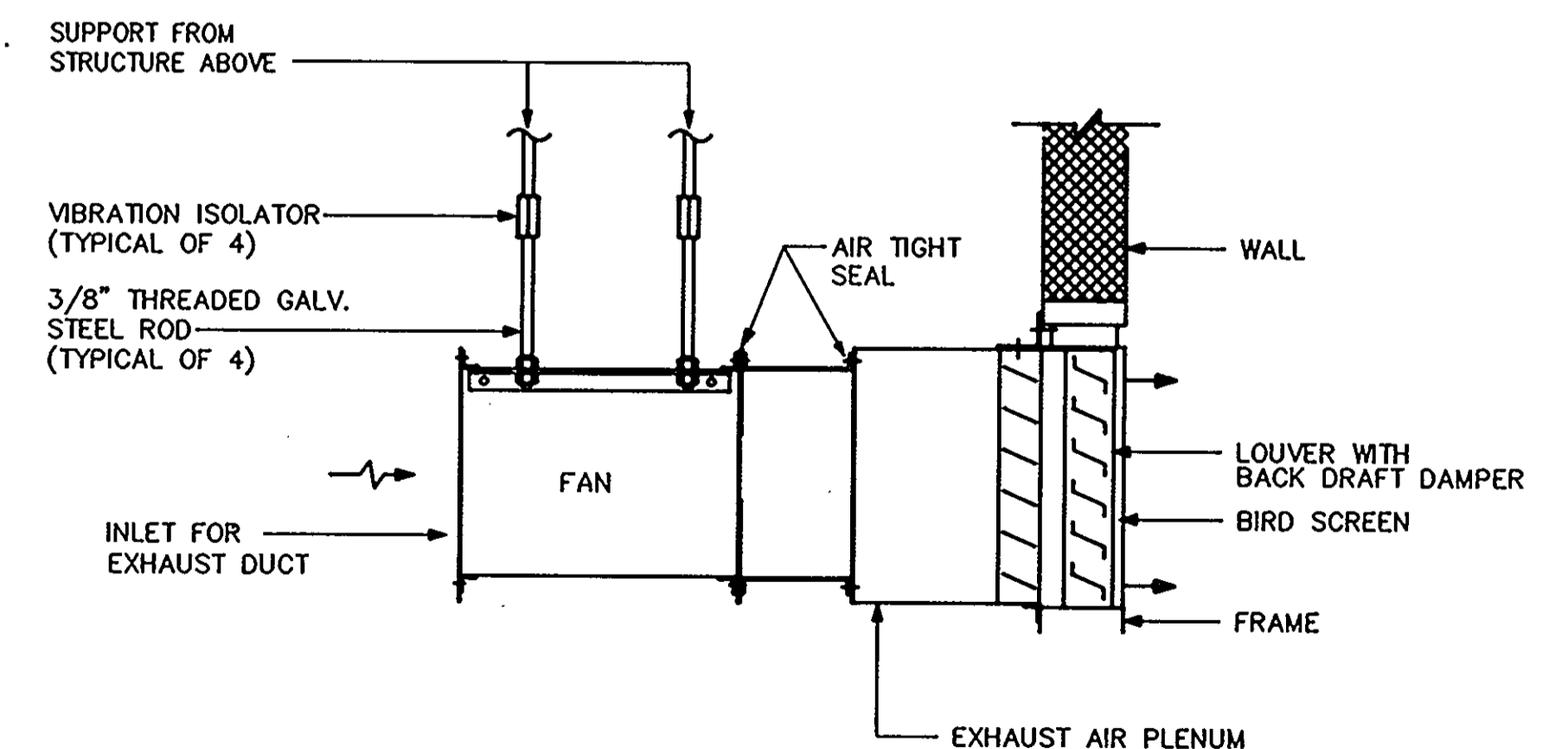
ENGINE BAY EXHAUST FAN DETAIL (TYPICAL OF 2)
NOT TO SCALE



DETAIL-LOW PRESSURE DUCT CONSTRUCTION
NO SCALE DLPDUCT



FIRE DAMPER DETAIL
NOT TO SCALE DFDD



DETAIL - EXHAUST FAN
NOT TO SCALE DEF

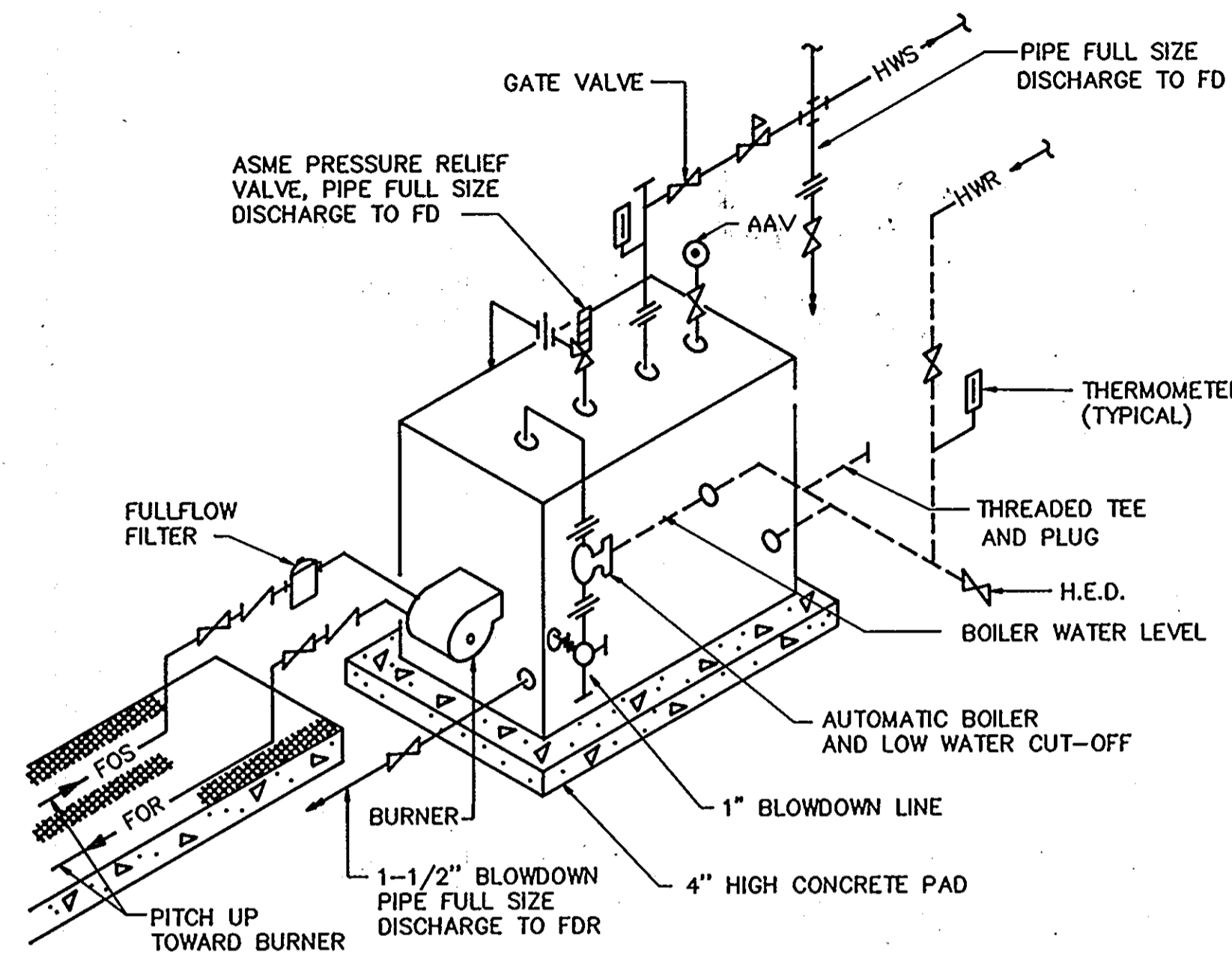
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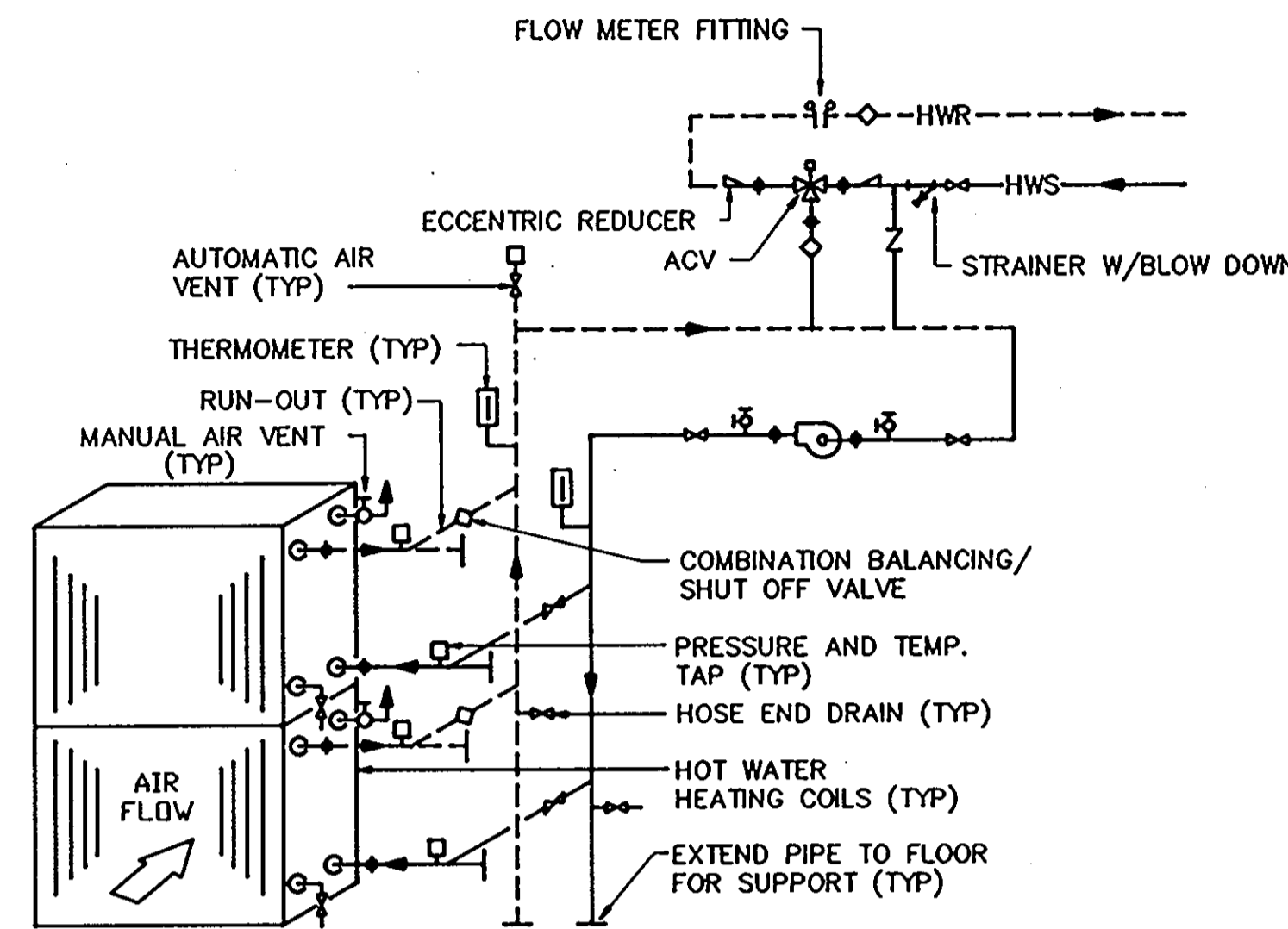


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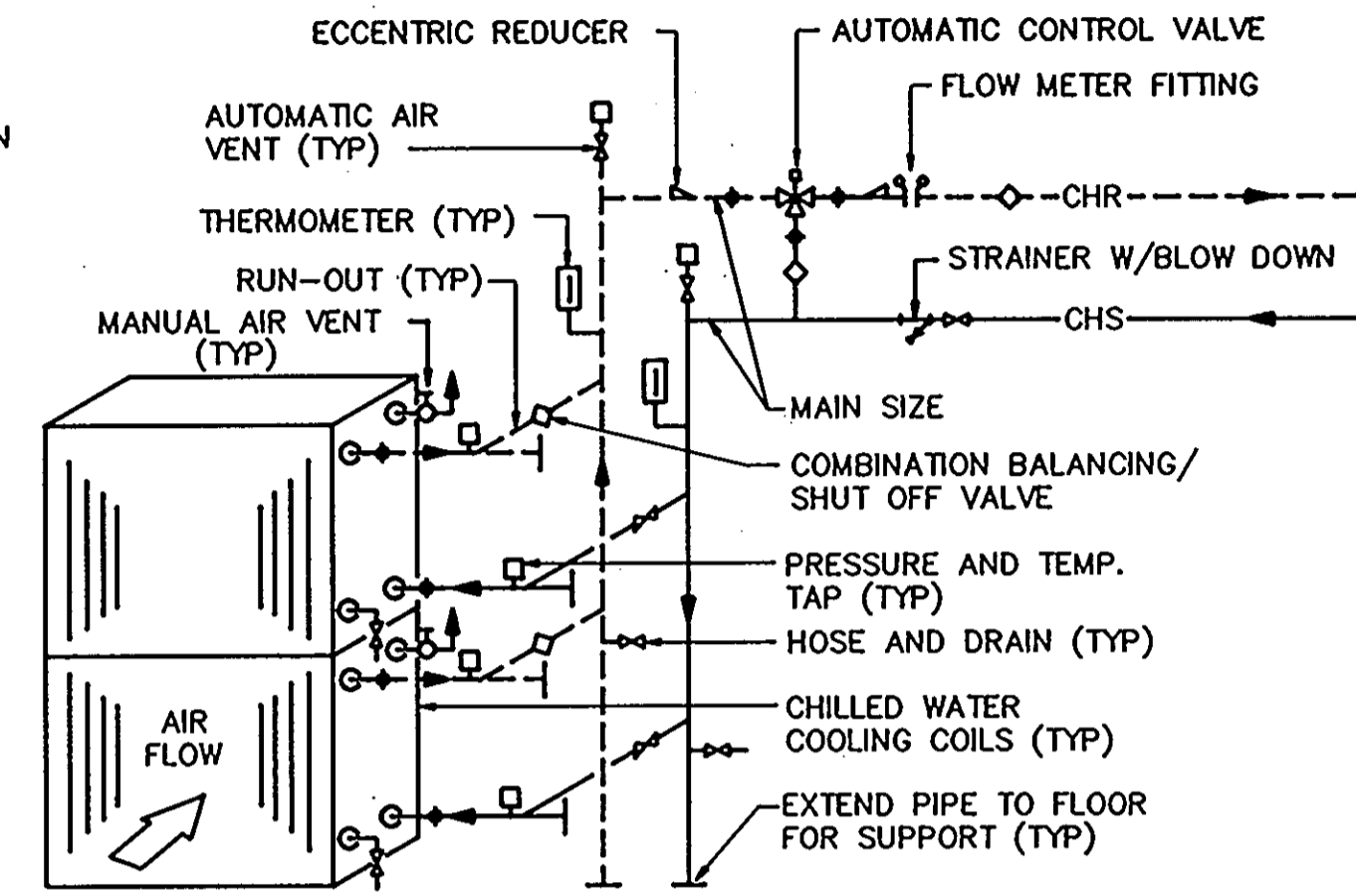
DETAILS		66 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707		DATE: 3/25/92
		DRAWING NO. M10.1



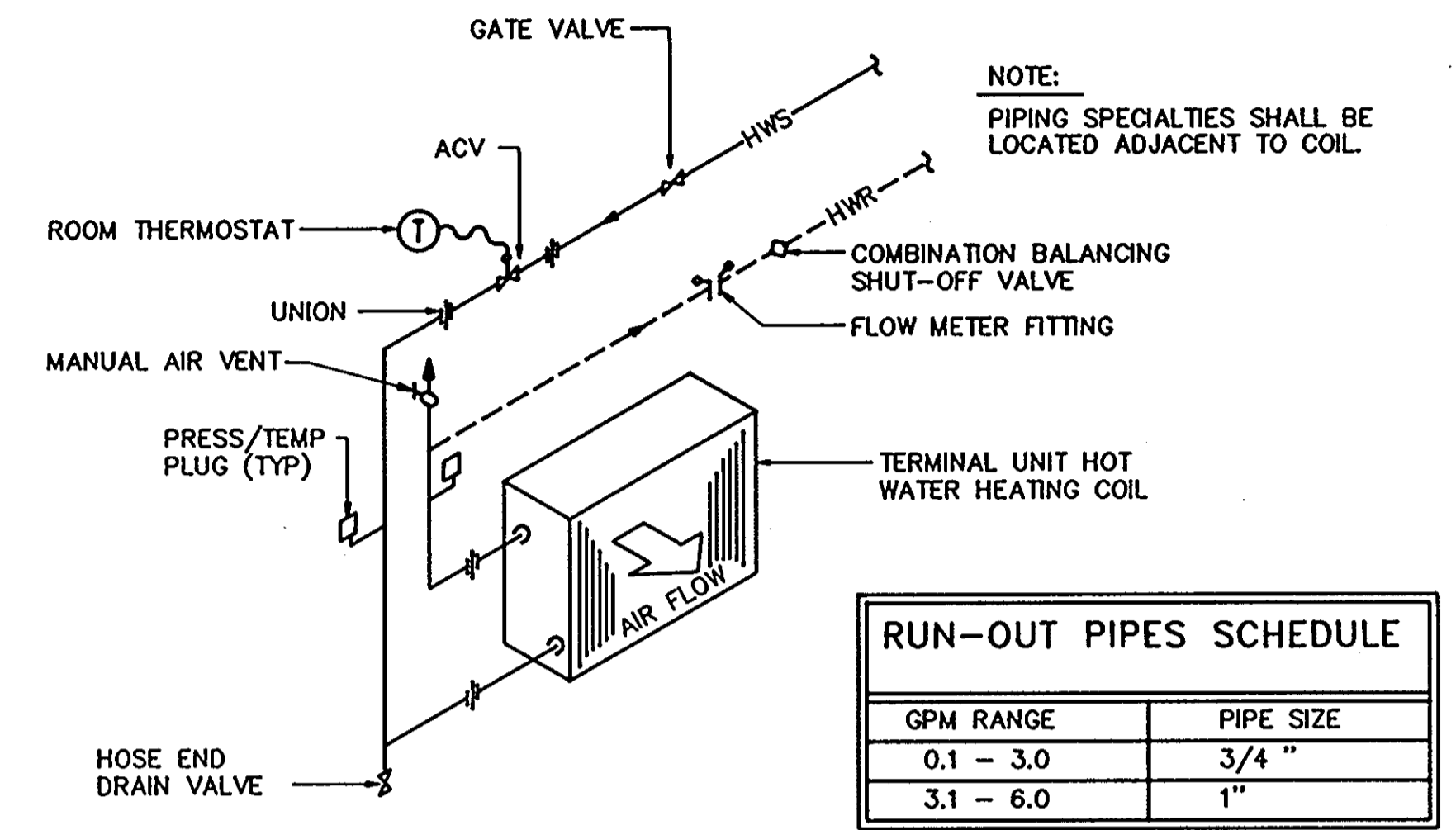
PIPING DETAIL HOT WATER HEATING BOILER
NOT TO SCALE DWHB



PIPING DETAIL HOT WATER HEATING COIL
NOT TO SCALE DWHC

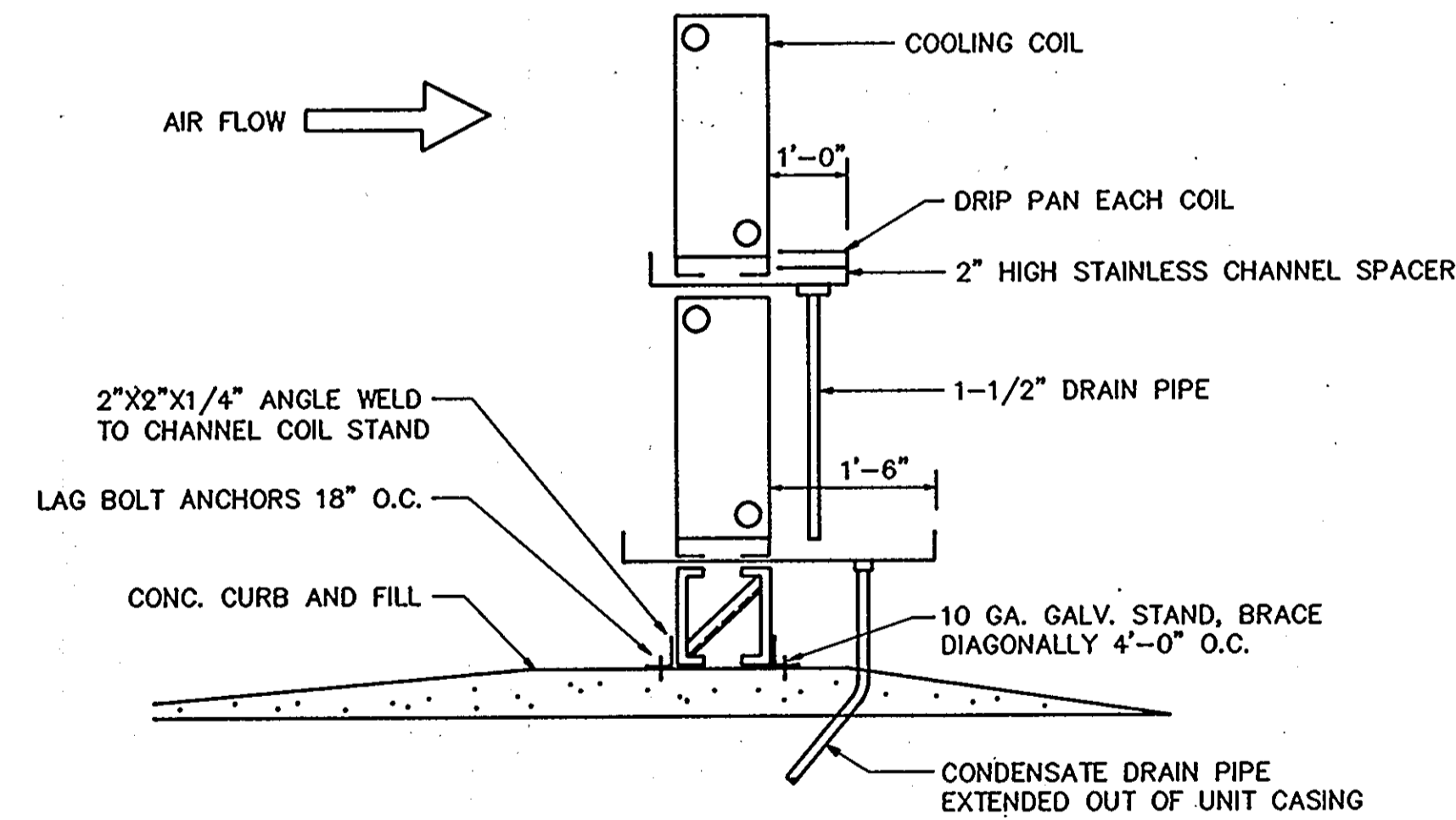


PIPING DETAIL CHILLED WATER COOLING COIL
NOT TO SCALE DCWC



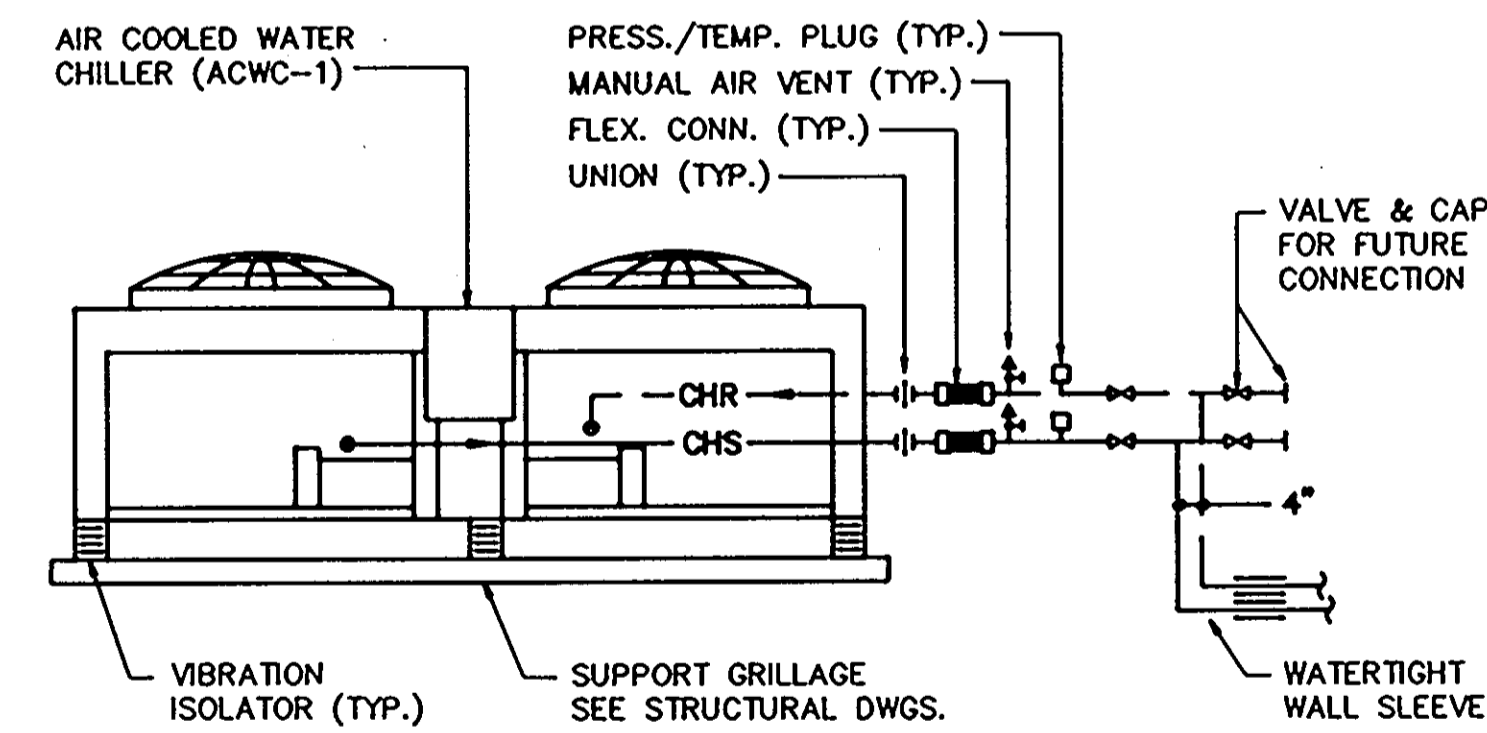
PIPING DETAIL TERMINAL UNIT HOT WATER HEATING COIL
NOT TO SCALE DTUWHC

RUN-OUT PIPES SCHEDULE	
GPM RANGE	PIPE SIZE
0.1 - 3.0	3/4"
3.1 - 6.0	1"



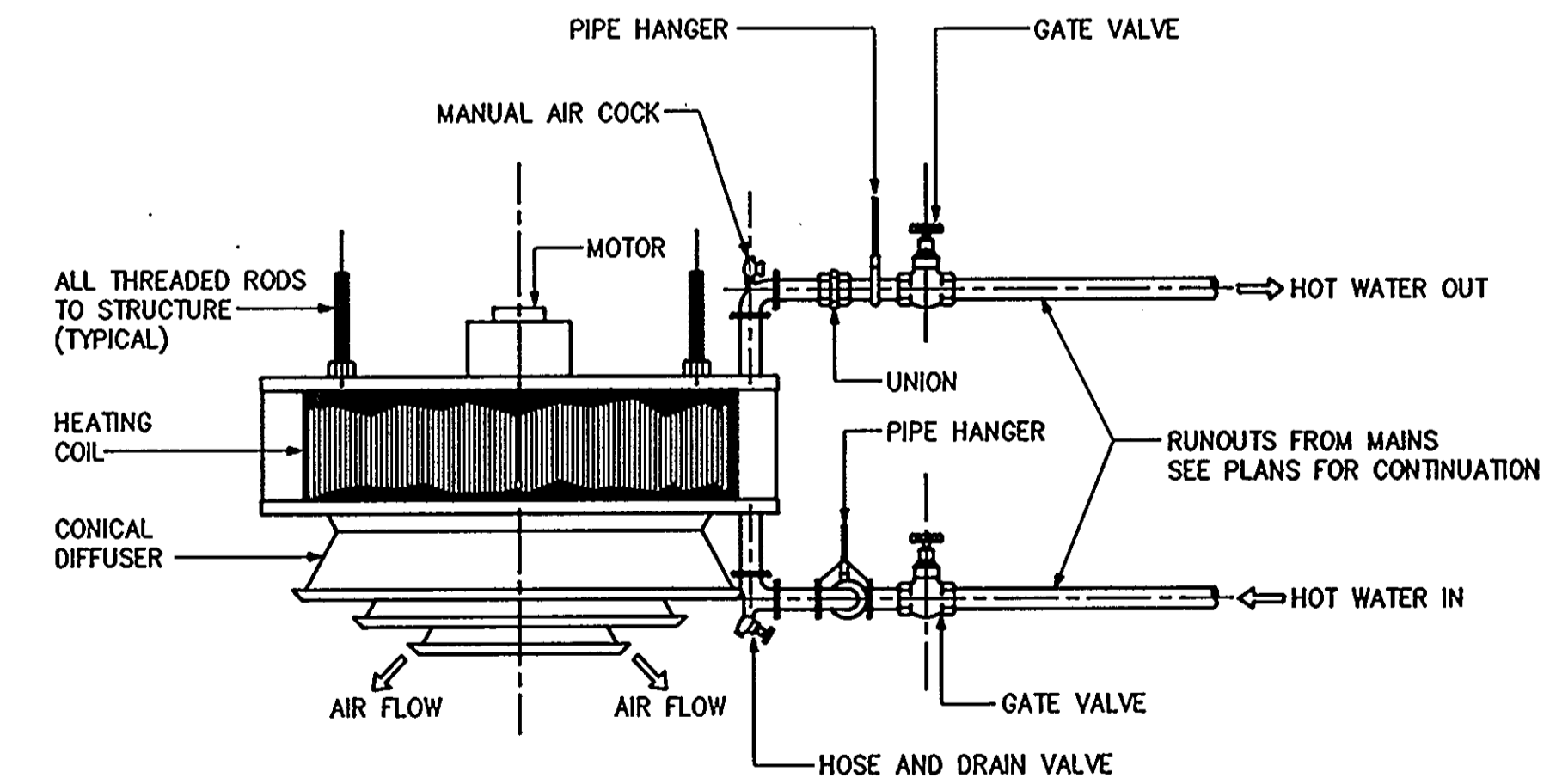
NOTE: ALL DRIP PANS TO BE CONSTRUCTED OF 22 GA. STAINLESS STEEL. (WELDED)

COOLING COIL INSTALLATION
NOT TO SCALE DCCI



NOTE: ALL PIPING EXPOSED TO ATMOSPHERE SHALL BE INSULATED AND ELECTRICALLY HEAT TRACED HEAT TRACING TO BE UNDER DIVISION 16.

PIPING DETAIL - AIR COOLED WATER CHILLER
NOT TO SCALE DACWALL



DOWN FLOW UNIT HEATER INSTALLATION DETAIL
NOT TO SCALE DDFUHD

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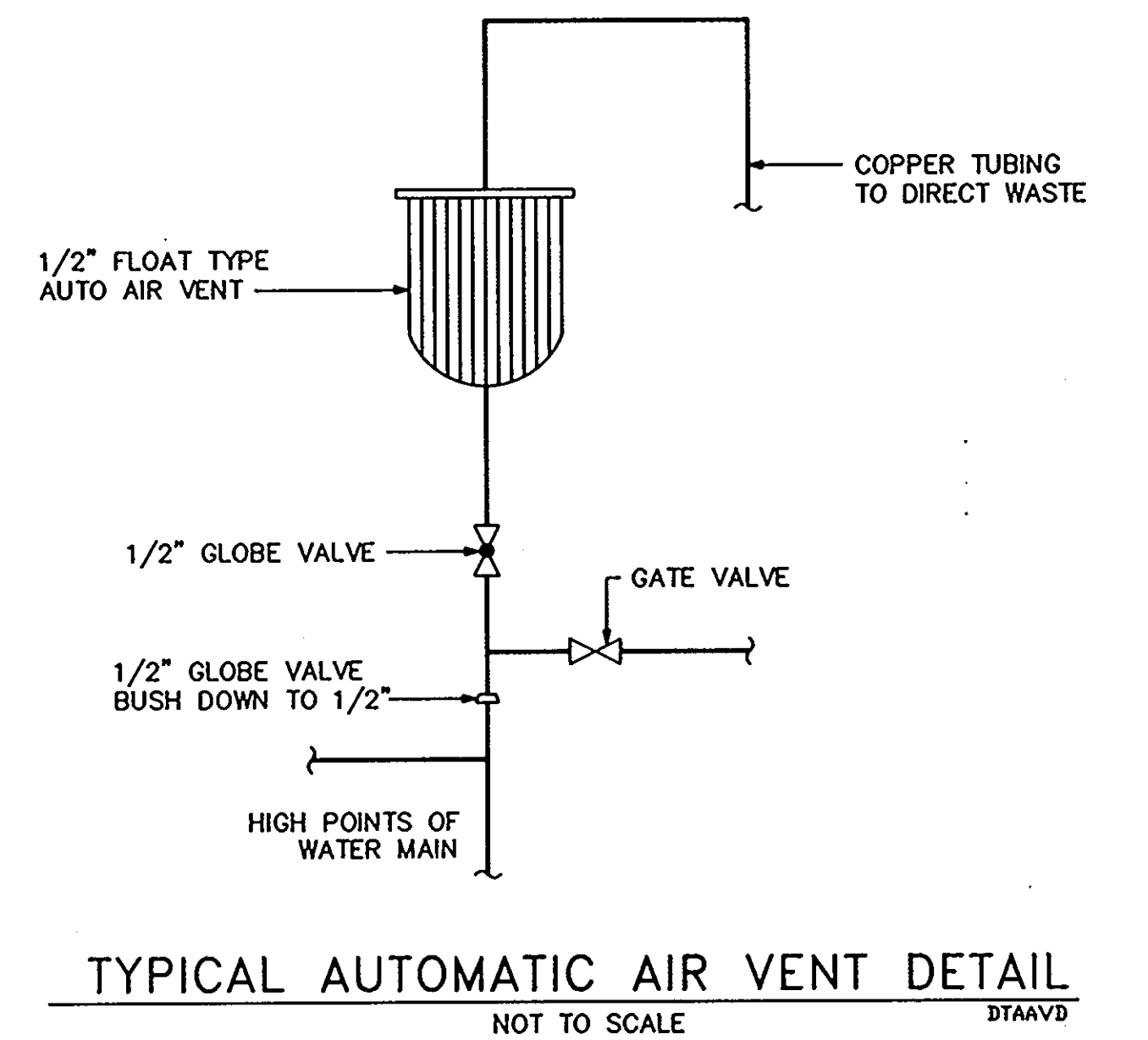
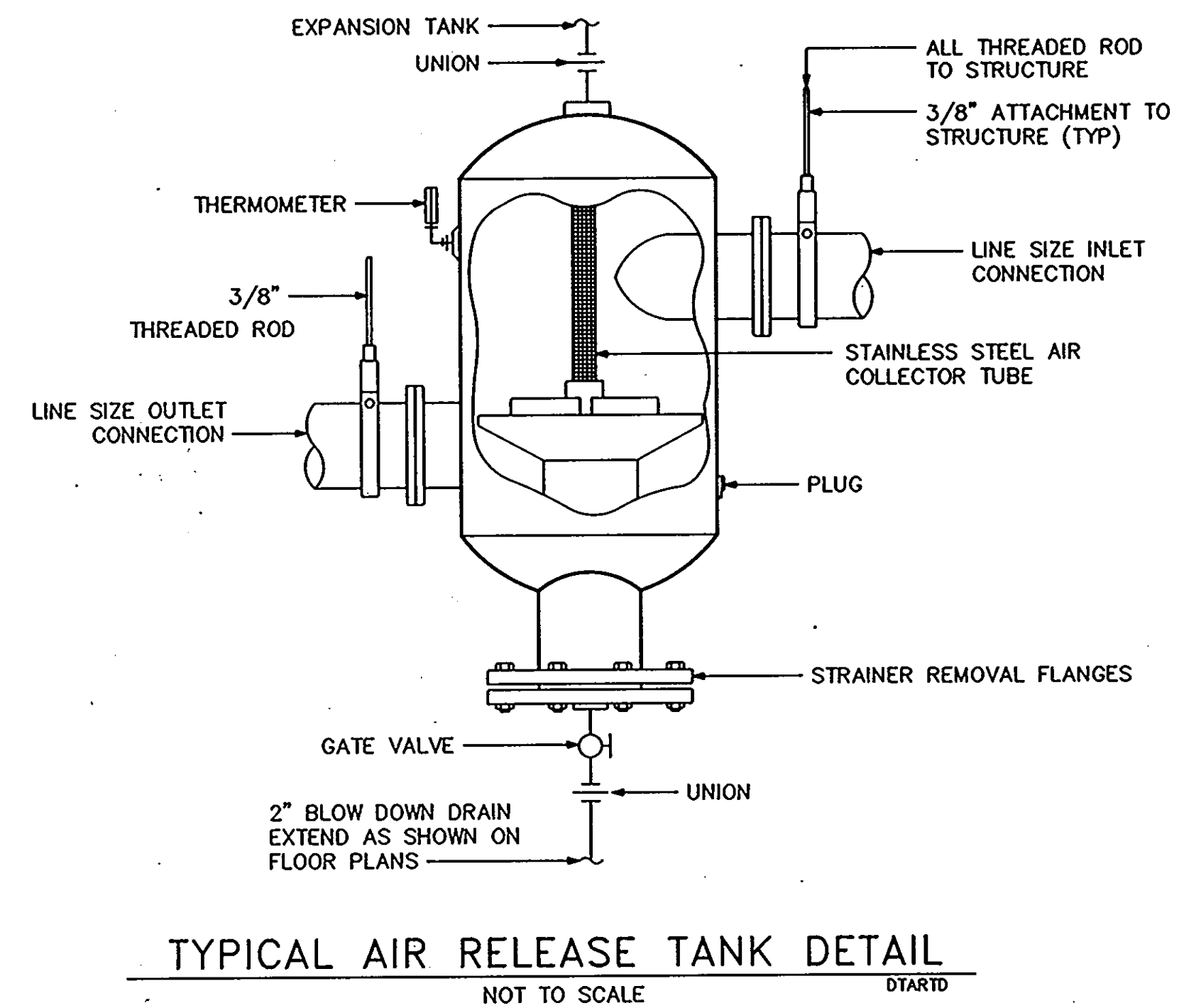
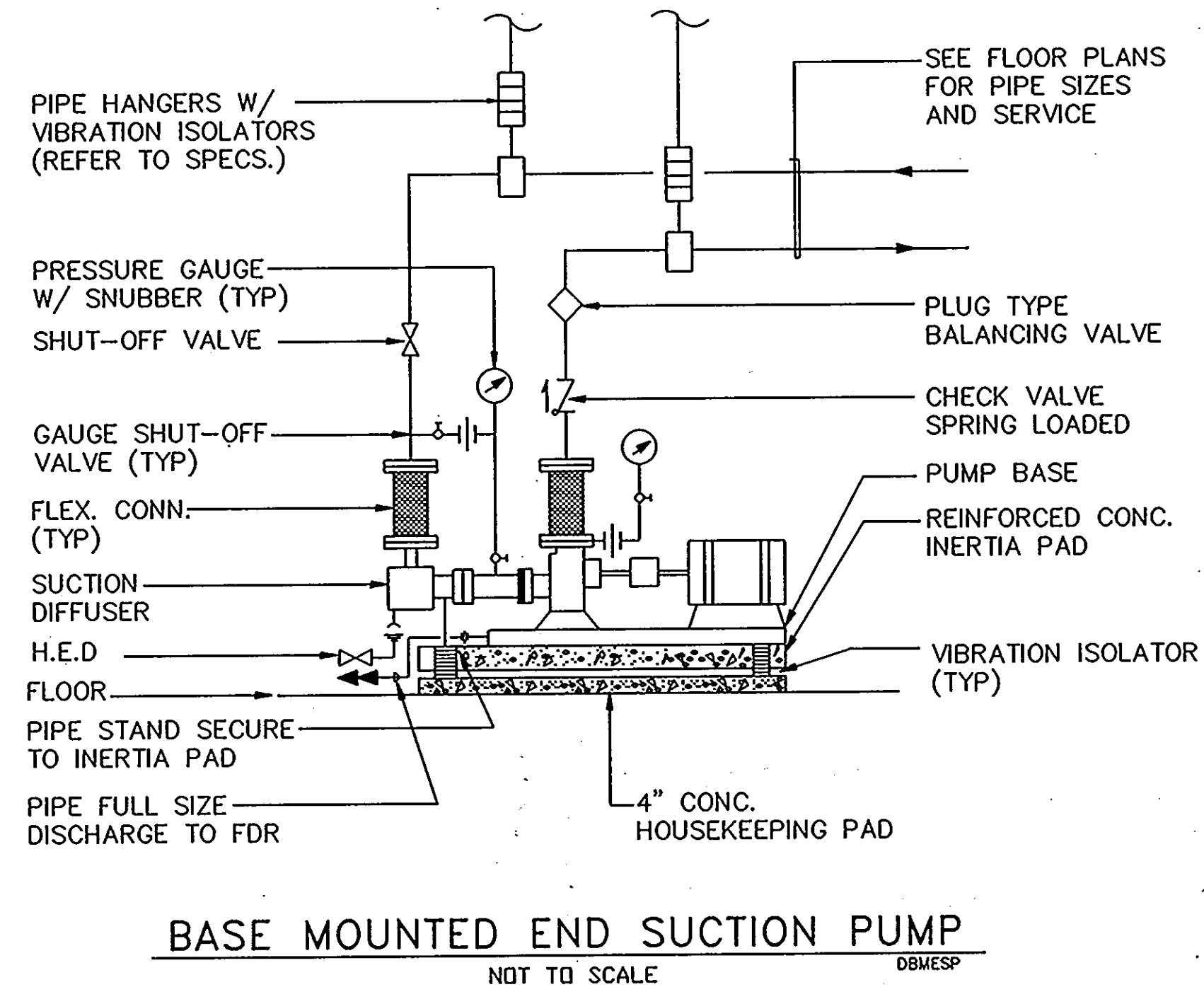
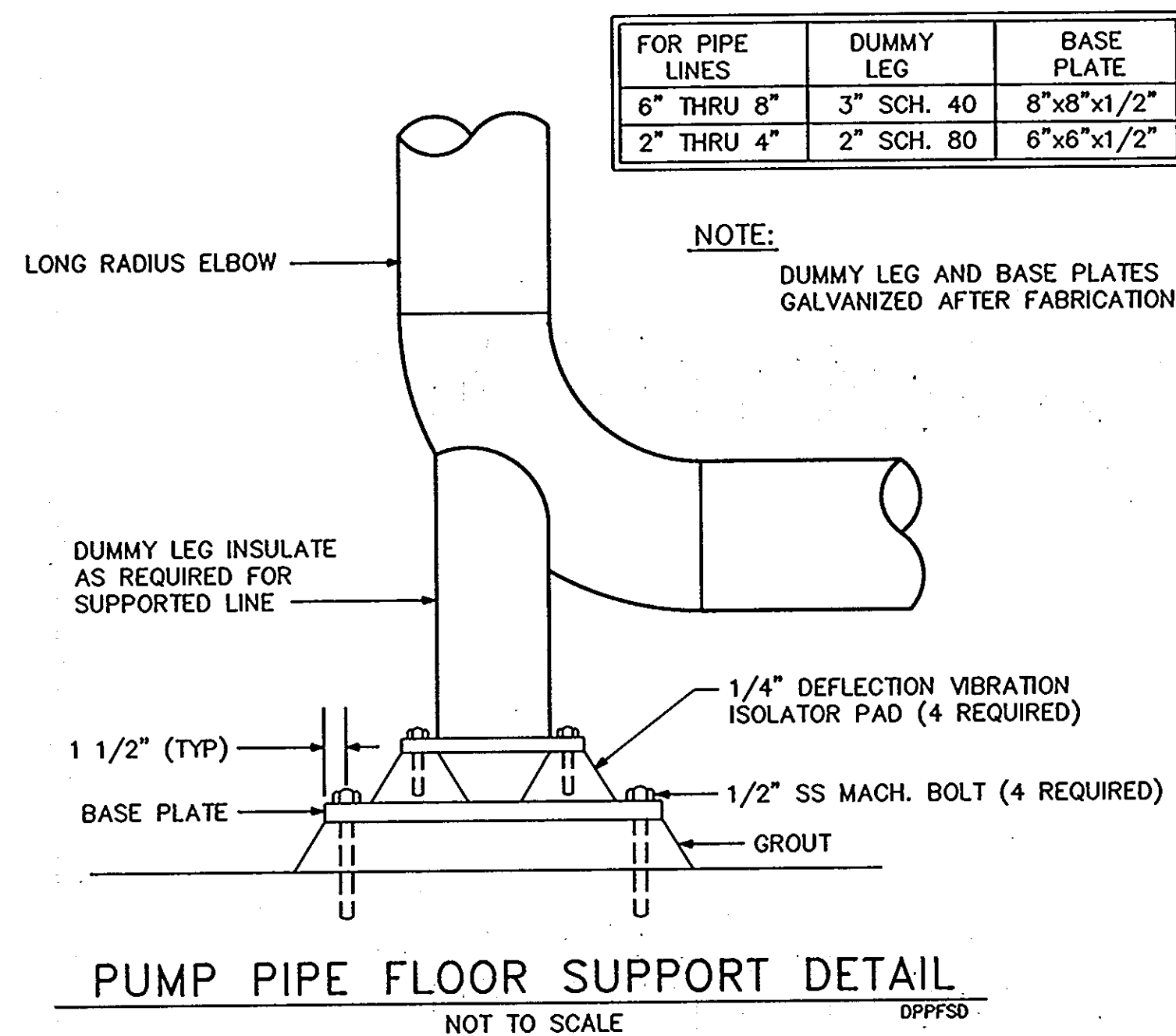
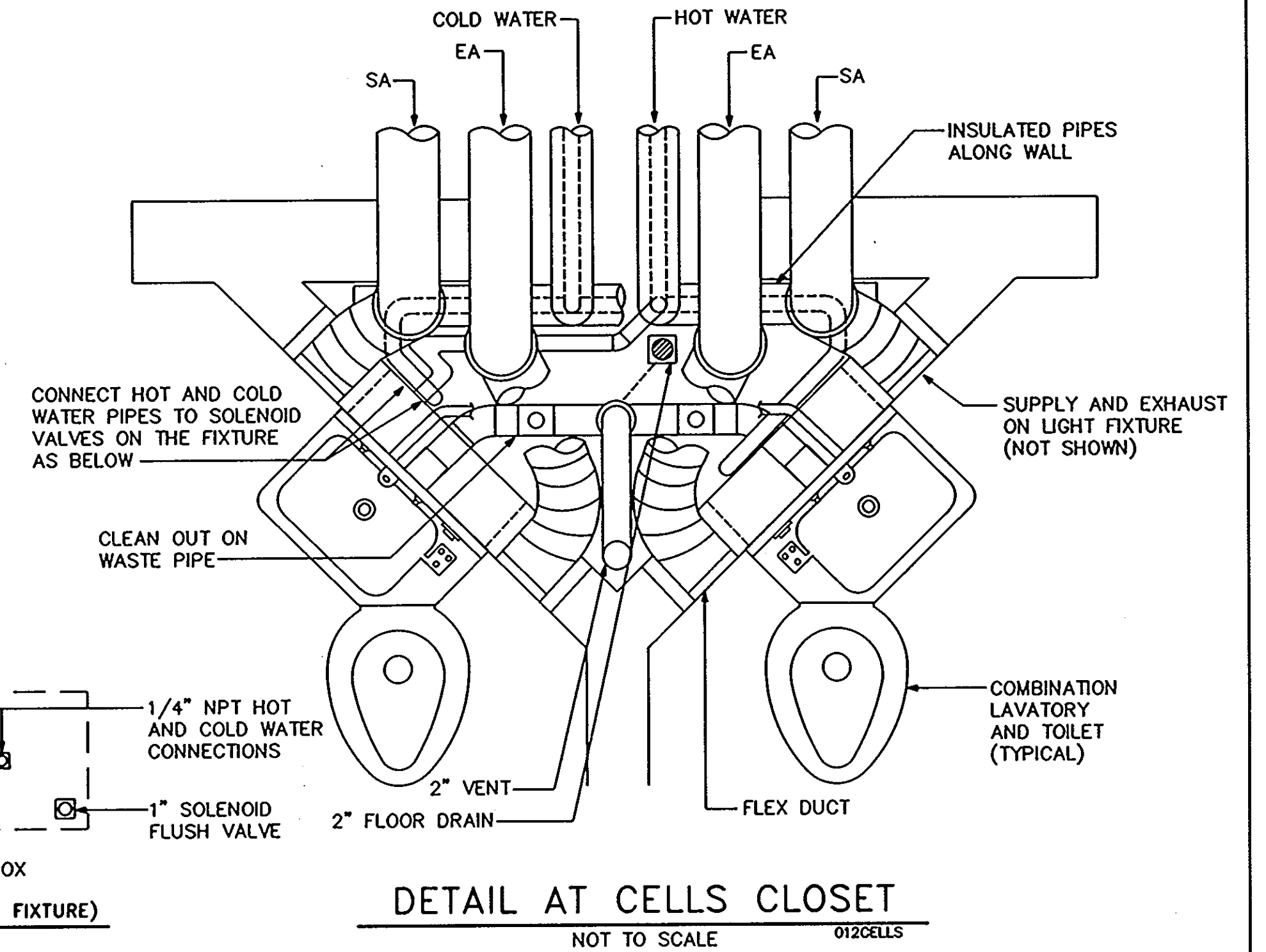
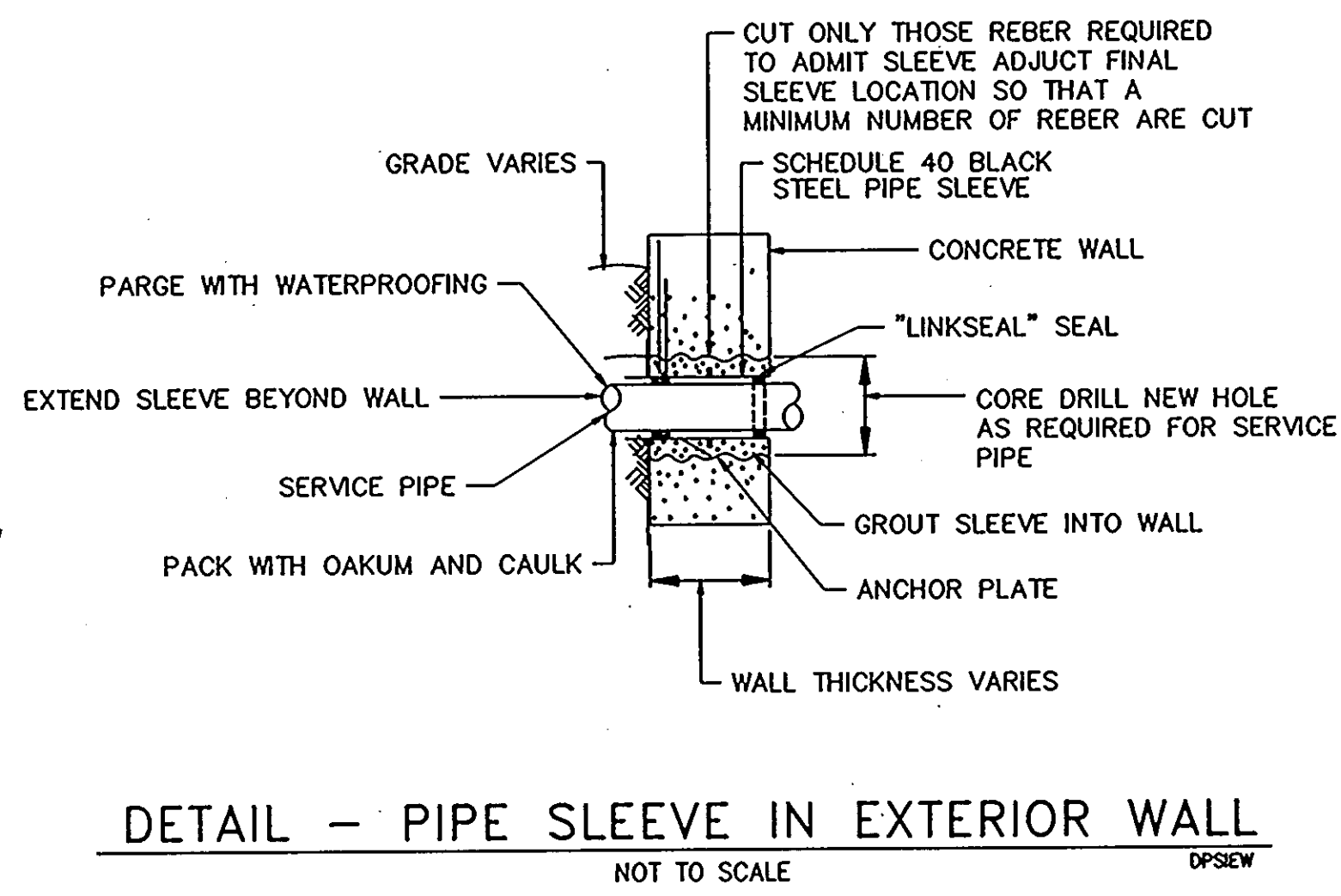
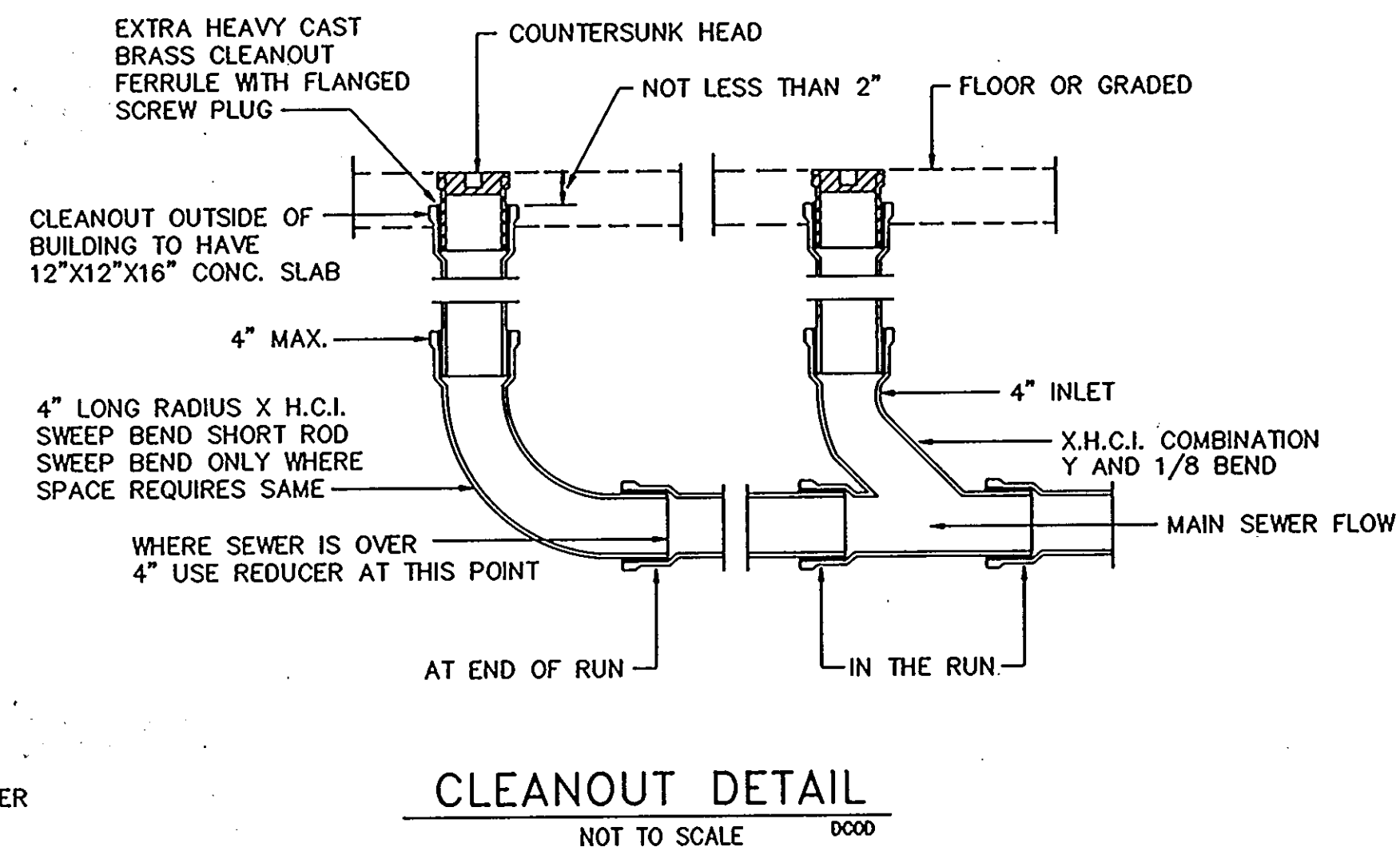
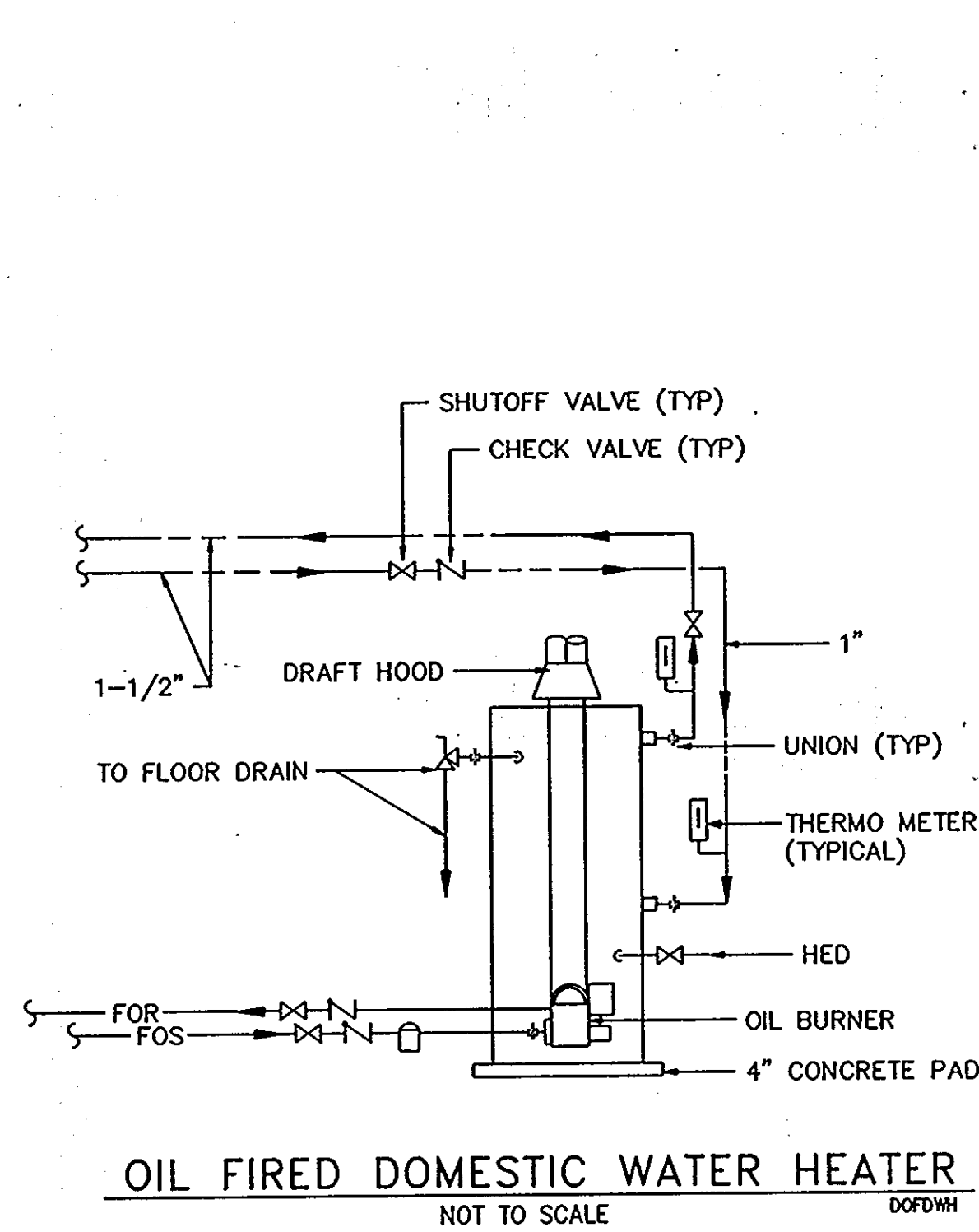
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DETAILS		67 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707		DATE: 3/25/92 DRAWING NO. M10.2



AIR COOLED WATER CHILLER DUTY	
GENERAL	
DESIGNATION:	ACHC-1
QUANTITY:	1
LOCATION:	OUTSIDE MECH ROOM
SERVICE:	AHU
CAPACITY	
NET COOLING CAPACITY (TONS):	74.8
EVAPORATOR PERFORMANCE	
ENTERING CHR TEMPERATURE (DEG F):	59
LEAVING CHR TEMPERATURE (DEG F):	44
SETPPOINT RANGE (DEG F):	42-46 (NOTE E)
CHILLED WATER FLOW RATE (GPM):	137
PRESSURE DROP (FT WG):	-
WORKING PRESSURE (PSI G):	125
FOULING FACTOR:	.0005
CONDENSER PERFORMANCE	
NUMBER OF FANS:	4
AMBIENT AIR FLOW RATE (CFM):	-
AMBIENT OUTSIDE AIR TEMP. (DEG F):	95
CONDENSER COIL SURFACE AREA (SQ. FT):	120
NUMBER OF INDEPENDENT REFRIGERANT CIRCUITS:	-
CONDENSER FAN MOTOR (HP) EACH:	1.5
COMPRESSOR PERFORMANCE	
TYPE:	SEMI-HERMETIC OR SCREW
QUANTITY:	2
REFRIGERANT:	R-22
NUMBER OF INDEPENDENT REFRIGERANT CIRCUITS:	1 PER COMPRESSOR
ENERGY INPUT MAX (KW/TON):	1.1
ELECTRICAL CHARACTERISTICS	
VOLTAGE:	480
PHASE:	3
FREQUENCY (HZ):	60
POWER FACTOR MIN (%):	85
MINIMUM CIRCUIT AMPACITY:	182
PHYSICAL CHARACTERISTICS	
OPERATING WEIGHT (LB):	6900
MAXIMUM OVERALL LENGTH (INCHES):	200
MAXIMUM WIDTH (INCHES):	86
MAXIMUM HEIGHT (INCHES):	66
REMARKS	
NOTES:	
A. DESIGN BASED ON DUNHAM-BUSH SERIES ACXX.	
B. 120V, 1PH, 60HZ CONTROL CIRCUIT POWER SHALL BE SUPPLIED FROM A SEPARATE SOURCE, THROUGH A FIELD SUPPLIED FUSED DISCONNECT.	
C. CONTRACTOR SHALL KEEP ADEQUATE CLEARANCES RECOMMENDED BY THE CHILLER MANUFACTURER.	
D. CHILLER DUTY SHALL BE BASED ON 40% GLYCOL IN CHILLED WATER SYSTEM.	
E. LEAVING CHILLED WATER SHALL BE ADJUSTABLE FROM 42 DEG F TO 46 DEG F. CHILLED WATER TEMPERATURE SHALL BE MAINTAINED ± 1 DEG F OF THE SET POINT.	
F. START UP AND WARRANTY SHALL BE PROVIDED BY CHILLER MANUFACTURER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR AUTHORIZED BY CHILLER MANUFACTURER'S REPRESENTATIVE SHALL NOT BE ACCEPTABLE. SUBMIT CURRENT AUTHORIZATION BY UNIT MANUFACTURER WITH SUBMISSION.	
G. MINIMUM FOLLOWING SHALL BE PROVIDED WITH UNIT:	
1. HOT GAS BY-PASS ON ONE COMPRESSOR.	
2. CODED ELECTRICAL PANEL IN ACCORDANCE WITH ALL APPLICABLE CODES	
3.	
4. INDICATOR LIGHT SET TO INDICATE: POWER TO THE UNIT, TRIP ON HIGH DISCHARGE PRESSURE, LOW EVAPORATOR PRESSURE AND LOW OIL PRESSURE.	
H. EACH UNIT SHALL BE SUITABLE FOR LOW AMBIENT OPERATION UP TO (-) 20 DEG F.	

EXPANSION TANK SCHEDULE		
DESIGNATION:	EXT-1	EXT-2
LOCATION:	MECH ROOM	MECH ROOM
SERVICES:	CHILLED WATER SYSTEM	HEATING HOT WATER SYSTEM
TANK VOLUME (GAL):	37	57
ACCEPTANCE VOLUME (GAL):	37	57
FILL PRESSURE (PSIA):	40	55
RELIEF VALVE SET (PSIA):	80	120
ASME PRESSURE RATING (PSIG):	125	125
DIMENSIONS (INCHES)		
DIAMETER:	20	20
HEIGHT:	40	54
OPERATING WEIGHT (LBS):	503	765

AIR HANDLING UNIT DUTY	
GENERAL	
DESIGNATION:	AHU
LOCATION:	MECHANICAL ROOM
SERVICE:	FIRE STATION, POLICE STATION
MIN. OUTDOOR AIR (CFM):	9,000
SERVICE:	-
SUPPLY FAN	
NUMBER OF FANS:	2
CAPACITY (CFM):	16,000
EXTERNAL SP (IN WG):	5.0
WHEEL DIAMETER (INCHES):	30
RPM:	1587
BHP:	21
MOTOR HP:	25
VOLTAGE/HERTZ/PHASE:	480/60/3
COOLING COIL	
TOTAL CAPACITY MBH:	1180
MIN. ROWS/FINS PER INCH:	8/10
ENTERING AIR TEMPERATURE:	-
DB DEG F:	85
WB DEG F:	69
LEAVING AIR TEMPERATURE:	-
DB DEG F:	57
WB DEG F:	57
MAX. FACE VELOCITY (FPM):	475
MAX. AIR PD (IN. WG):	1.15
EWT DEG F:	0.44
LWT DEG F:	59
CHILLED WATER (CFM):	165 (SEE NOTE 1)
MAX. H2O PD (FT. WG):	12.16 (SEE NOTE 1)
PREHEAT COIL	
TOTAL CAPACITY MBH:	655
ENTERING AIR TEMP (DEG F):	5
LEAVING AIR TEMP (DEG F):	57
MAX. FACE VELOCITY (FPM):	480
MAX. AIR PD (IN. WG):	0.25
HOT WATER (CFM):	25 (SEE NOTE 2)
FILTERS	
MAX. FACE VELOCITY (FPM):	475
EFFICIENCY PERCENT:	80-85
INITIAL PD (IN. WG):	0.5
FINAL PD (IN. WG):	1.0
APPROX. SIZE (IN):	96Lx80Wx12D
OVERALL DIMENSIONS	
LENGTHxHEIGHTxWIDTH (FT):	23x8.5x12
REMARKS	
A. PROVIDE FILTER GAUGE.	
B. FAN SOUND POWER LEVELS SHALL NOT EXCEED THE FOLLOWING: @ 63 125 250 1000 2000 4000 8000 @ 101 99 95 88 82 78 74 WHERE F IS OVTAVE BAND CENTER FREQUENCY (HZ) AND S IS FAN SOUND POWER LEVEL (dB).	
NOTES:	
1. DUTY SHALL BE BASED ON 40 PERCENT ETHYLENE GLYCOL IN CHILLED WATER.	
2. HOT WATER FLOW IS BASED ON WATER TEMPERATURE DIFFERENTIAL OF 25 DEG F.	

DOMESTIC WATER HEATER DUTY	
GENERAL	
DESIGNATION:	DWH
QUANTITY:	1
LOCATION:	MECH ROOM
SERVICE:	DOMESTIC HOT WATER
FIRING FUEL:	FO NO. 2
PERFORMANCE	
CAPACITY (GALLONS):	225
ENTERING WATER TEMPERATURE (DEG F):	40
LEAVING WATER TEMPERATURE (DEG F):	120
RECOVERY RATE (GPH):	500
INPUT RATE (BTUH):	400,000
FIRING RATE (GPH):	2.8
ELECTRICAL CHARACTERISTICS	
MOTOR HP:	1/4
VOLTAGE:	120
PHASE:	1
HERTZ:	60
OVERALL DIMENSIONS	
SHIPPING WEIGHT (LB):	1400
OVERALL DIAMETER (IN):	35
OVERALL HEIGHT (IN):	81
FLUE OUTLET DIAMETER (IN):	5
REMARKS	
NOTE:	
1. PROVIDE INTEGRAL THERMOSTAT FOR BURNER CONTROL TO MAINTAIN WATER TEMPERATURE.	
2. SELECTION BASED ON POLY-SHIELD SERIES 500P.	

HOT WATER BOILER DUTY	
GENERAL	
DESIGNATION:	HWB
QUANTITY:	2
LOCATION:	MECHANICAL ROOM
SERVICE:	HEATING HOT WATER
FIRING FUEL:	FO No. 2
FLUID:	HOT WATER
PERFORMANCE	
BOILER HORSEPOWER:	35.8
IBR GROSS OUTPUT (MBH):	1200
NET IBR RATING (MBH):	1043
WORKING PRESSURE (PSIG):	40
BURNER CAPACITY (MBH):	1526
TOTAL DRAFT REQUIRED (IN. WG):	0.08
MAX. WATER P.D. (FT. WG):	2
HOT WATER SUPPLY SET POINT(DEG F):	180
ELECTRICAL CHARACTERISTICS	
BURNER:	480 V
BURNER MOTOR HP:	3/4
CONTROL CIRCUIT (SEE NOTE 4):	120 V/60 HZ
PHYSICAL CHARACTERISTICS	
HEATING SURFACE (SQ. FT):	168.4
FURNACE VOLUME (CU FT):	16.4
WATER CONTENT (GAL):	107
OPERATING WEIGHT (LB):	5540
OVERALL DIMENSIONS (INCHES)	
LENGTH:	122
HEIGHT:	78
WIDTH:	51
REMARKS	
1. SELECTION BASED ON HB SMITH BOILER FITTED WITH POWER FLAME OIL BURNER.	
2. STARTUP AND WARRANTY SHALL BE PROVIDED BY THE BOILER MANUFACTURER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR AUTHORIZED BY BOILER MANUFACTURER'S REPRESENTATIVE SHALL NOT BE ACCEPTABLE.	
3. HOT WATER SUPPLY TEMPERATURE SHALL BE ADJUSTABLE FROM 140 DEG F TO 210 DEG F. HOT WATER SHALL BE MAINTAINED AT ± 5 DEG F OF THE SET POINT.	
4. CONTROL CIRCUIT SHALL BE BUILT-IN THE BURNER CONTROL PANEL WITH NECESSARY STEP DOWN TRANSFORMER.	

AIR DEVICE SCHEDULE					
TYPE	SERVICE	NECK SIZE	FACE SIZE (NOTE 2)	MAX. CFM (NOTE 3)	REMARKS
DP8A	CEILING SUPPLY	8" DIA	12"x12"	100	
DP8	CEILING SUPPLY	8" DIA	24"x24"	100	
DP8	CEILING SUPPLY	8" DIA	24"x24"	200	
DP10	CEILING SUPPLY	10" DIA	24"x24"	300	
DP12	CEILING SUPPLY	12" DIA	24"x24"	400	
DP14	CEILING SUPPLY	14" DIA	24"x24"	500	
RP6	CEILING RETURN	6" DIA	24"x24"	200	
RP8	CEILING RETURN	8" DIA	24"x24"	300	
RP10	CEILING RETURN	10" DIA	24"x24"	400	
RP12	CEILING RETURN	12" DIA	24"x24"	600	
RP22	CEILING RETURN	22"x22"	24"x24"	2000	
EP6	CEILING EXHAUST	6" DIA	12"x12"	200	
EP8	CEILING EXHAUST	8" DIA	12"x12"	300	
EP10	CEILING EXHAUST	10" DIA	24"x24"	400	
EP14	CEILING EXHAUST	14" DIA	24"x24"	1100	
DP6S	CEILING SUPPLY	6" DIA	24"x24"	100	SECURITY DIFFUSER
EP8S	CEILING EXHAUST	8" DIA	24"x24"	300	SECURITY GRILLE
LD	WALL SUPPLY	8" DIA	2"x60"	400	PLENUM MOUNTED
NOTES:					
1. REFER TO SPECIFICATION FOR MAKE AND MODEL.					
2. AIR FLOW DIRECTION SHALL BE AS INDICATED ON THE PLAN'S.					
3. CFM BASED ON MAXIMUM NC 28.					

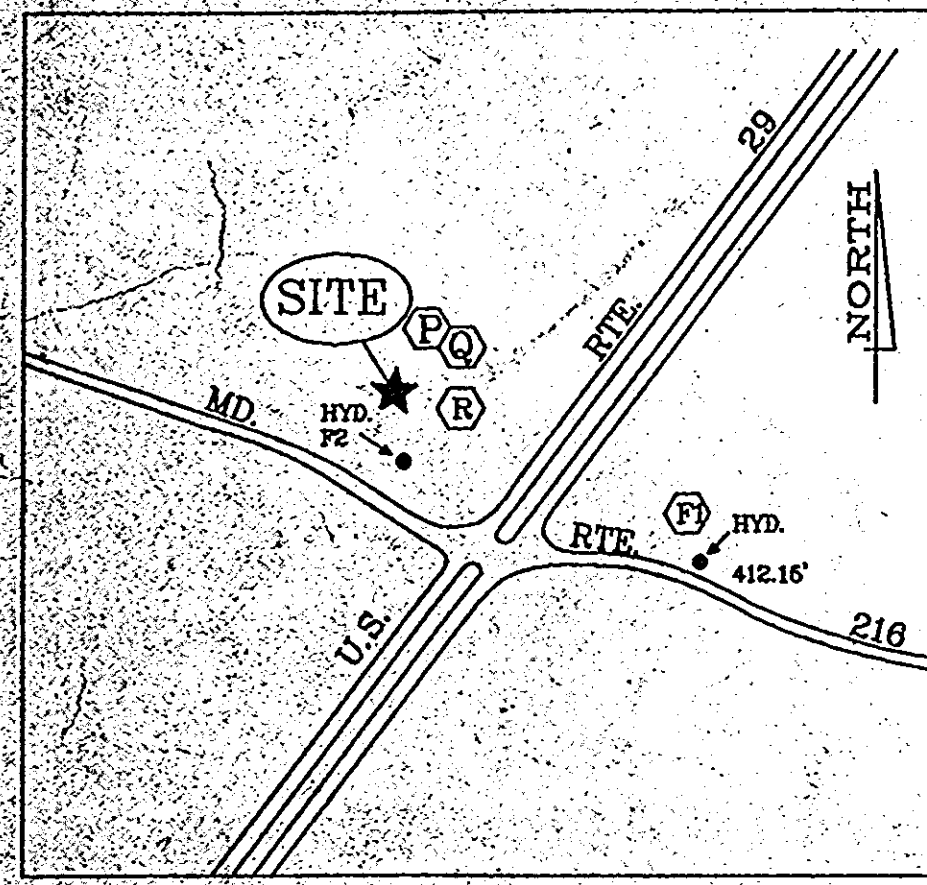
FILTER AREA - 80 SQUARE FEET MINIMUM
 20 FILTER BANK, EACH FILTER 20" H x 24" W x 12" D

PUMPS SCHEDULE				
GENERAL				
DESIGNATION:	PAHU	PCH	PHW	PDHW
QUANTITY:	1	2	2	1
LOCATION:	MECH RM	MECH UP	MECH RM	MECH RM
SERVICE:	PREHEAT COIL WATER RECIRCULATION	CHILLED WATER (SEE NOTE 2)	HEATING HOT WATER SYSTEM	DOMESTIC HOT WATER RECIRCULATION (SEE NOTE 3)
TYPE: (REFER TO SPECS)	IL	ES	ES	IL
FLUID:	WATER	WATER+GLYCOL	WATER	WATER
FLOW RATE GPM:	36	165	100	25
TOTAL HEAD (FT. WG):	25	35	60	25
APPROX. IMPELLER DIAMETER (IN):	5.4	6.3	9.5	5.2
SUCTION DISCHARGE IN X (IN):	1.5x1.5	2.5x2	3x2.5	1.5x1.5
MIN. PUMP EFFICIENCY %:	53	72	70	45
PUMP SPEED RPM:	1750	1760	1760	1750
PUMP BHP:	0.5	2	6.8	0.33
MOTOR HP:	0.75	3	7.5	0.5
ELECTRICAL SERVICE				
VOLT:	480	480	480	120
PHASE:	3	3	3	1
HERTZ:	60	60	60	60
TACO SERIES:	1615	FM2007	FM2510	1615
OVERALL DIMENSIONS				
LENGTH (IN):	22	42	51	22
WIDTH (IN):	13	13	18	13
HEIGHT (IN):	16	17	22	16
MOTOR WEIGHT (LB):	-	-	-	-
REMARKS				
NOTES:				
1. PUMPS SHALL BE SUITABLE FOR MINIMUM OPERATING PRESSURE OF 125 PSI.				
2. PUMP PERFORMANCE SHALL BE BASED ON 40 PERCENT ETHYLENE GLYCOL IN THE SYSTEM.				
3. PUMP PDHW SHALL BE ALL BRONZE CONSTRUCTION.				

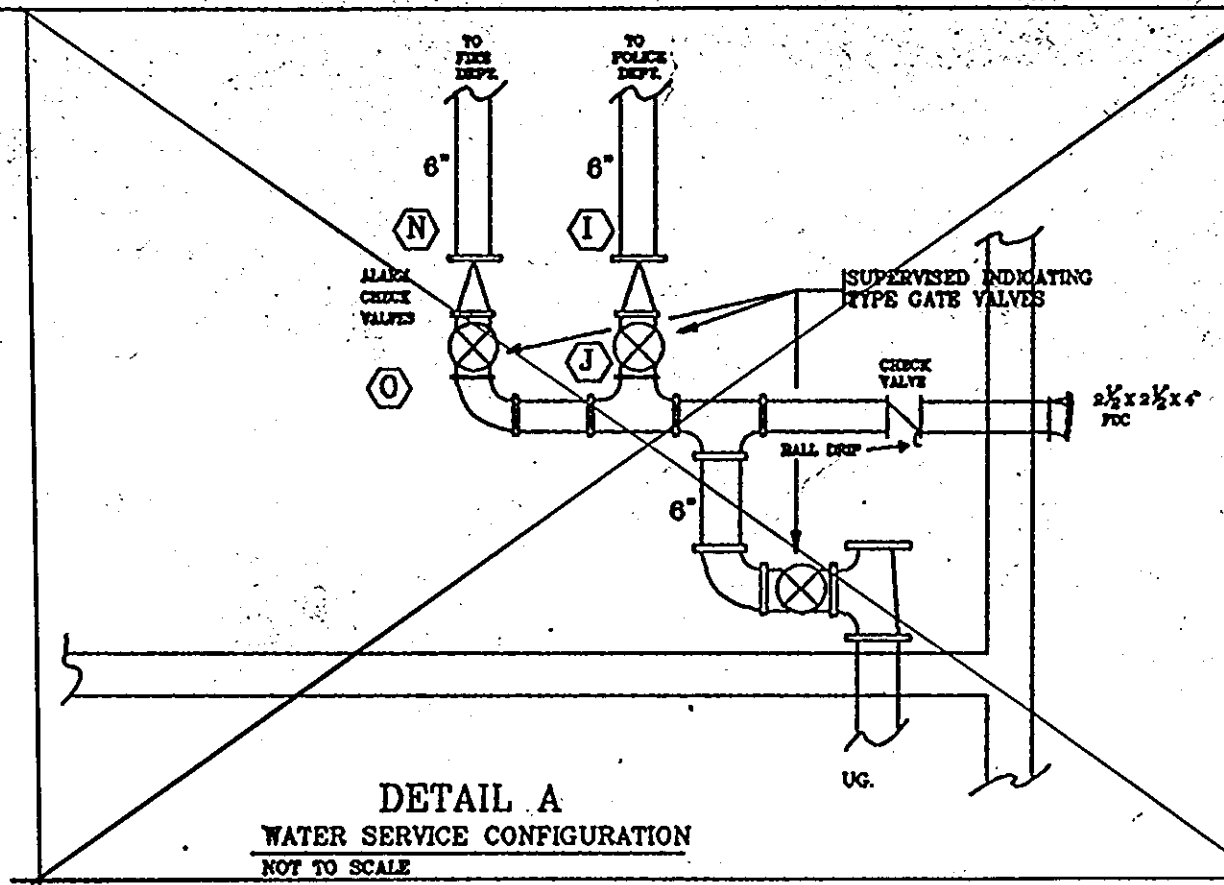
EXHAUST FAN SCHEDULE															
DESIGNATION	REF-1	EF-2	REF-3	REF-4	REF-5	REF-6	REF-7	REF-8	REF-9	REF-10	REF-11	EF-15	EF-16	EF-17	REF-18
LOCATION	ROOF ROOM 3	KITCHEN HOOD	ROOF ROOM 21	TOILET, STORAGE, TRAINING ROOM	CELLS	CELLS	CELLS	TOILET, JAN., STORAGE	TOILET, JAN., STORAGE	TOILET, JAN., BULLPEN	TOILETS LOCKERS, EXER. RM	MECH & ELEC ROOMS	ENGINE BAY EXHAUST	ENGINE BAY EXHAUST	SALLY PORT EXHAUST NOTE 5
SERVICES	TOILETS, LOCKERS, GEAR RM, EXER. RM	HOOD EXHAUST	TOILET	TOILET, STORAGE, TRAINING ROOM	CELLS	CELLS	CELLS	TOILET, JAN., STORAGE	TOILET, JAN., STORAGE	TOILET, JAN., BULLPEN	TOILETS LOCKERS, EXER. RM	MECH & ELEC ROOMS	ENGINE BAY EXHAUST	ENGINE BAY EXHAUST	SALLY PORT EXHAUST NOTE 5
TYPE (SEE SPEC.)	CRV	NOTE 1	CRV	CRV	CRV	CRV	CRV	CRV	CRV	CRV	CRV	IL	CU	CU	CRV
AIR FLOW RATE CFM	1200	-	75	255	500	360	1080	220	550	615	2900	4450	1500	1500	1080
SP IN WG	0.5	-	0.375	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	4.0	4.0	0.5
FAN SPEED RPM	860	-	1750	1750	860	1550	860	1750	860	1140	625	1480	2740	2740	860
FAN BHP	-	-	-	-	-	-	-	-	-	-	-	-	1.4	1.4	-
MOTOR HP	1/4	-	1/12	1/12	1/6	1/10	1/4	1/12	1/6	1/8	3/4	1	2	2	1/4
ELECTRICAL DATA															
VOLTS	120	120	120	120	120	120	120	120	120	120	120	480	480	480	120
PHASE	1	1	1	1	1	1	1	1	1	1	3	3	3	3	1
HERTZ	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
PHYSICAL DATA															
LENGTH x WIDTH (IN)	25x25	-	18x18	18x18	25x25	18x18	25x25	18x18	25x25	21x21	31x31	-	20x29	20x29	25x25
HEIGHT (IN)	25	-	14	14	25	14	25	14	25	18	28	-	28	28	25
WEIGHT (LB)	70	-	25	25	70	25	70	25	70	40	175	-	180	180	70
PENN MODEL (NOTE 2)	BW53	-	X060	X082	BW45	XR94	BW53	X082	BW45	AT24	LB24	NOTE 3	NOTE 3	NOTE 3	BW53
ROOF OPENING DIA. (IN)	16 1/4	-	9	9	16 1/4	9	16 1/4	9	16 1/4	9	11 1/2	22 1/2	-	-	16 1/4
NOTES:															
1. THE KITCHEN EXHAUST HOOD HAS A BUILT-IN EXHAUST FAN.															
2. SELECTION IS BASED ON PENN VENTILATOR CO. MODELS AS INDICATED.															
3. REFER TO SPECIFICATION FOR MANUFACTURE AND MODEL.															
4. FANS SHALL HAVE INTEGRAL SPEED CONTROL AND DISCONNECT SWITCHES.															
5. 0-15 MIN. ADJUSTABLE "OFF" TIMER, INTER LOCK WITH DOOR SWITCH.															

CABINET AND UNIT HEATER SCHEDULE				
GENERAL				
DESIGNATION:	UH-1	UH-2	CUH-1	CUH-2
SERVICES:	ROOM/PLENUM	ENGINE BAY	DOORWAYS	VESTIBULE
AIR FLOW RATE:	500	500	250	250
ENTERING AIR TEMP. (DEG F):	60	60	85	85
ENTERING WATER TEMP. (DEG F):	180	180	180	-
LENGTHxWIDTHxDEPTH (IN):	17x20x18	28x17	36x25x9	19x14x5
HOT WATER MAXIMUM GPM:	2	2	2	2 KW
ELECTRICAL CHARACTERISTICS				
FAN MOTOR HP:	1/20	1/20	1/20	1/20
VOLTAGE:	120	120	120	277
PHASE:	1	1	1	1
HERTZ:	60	60	60	60
REMARKS				
UH-1: PROVIDED WITH INTEGRAL THERMOSTAT.				
CUH-1: PROVIDED WITH INTEGRAL THERMOSTAT, HIGH LOW HEAT SELECTION SWITCH.				
CUH-2: SHALL BE RECESSED CEILING MOUNTED.				

SCHEDULES PHASE 1		70 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707		
CAPITAL PROJECT NO. C - 0227		

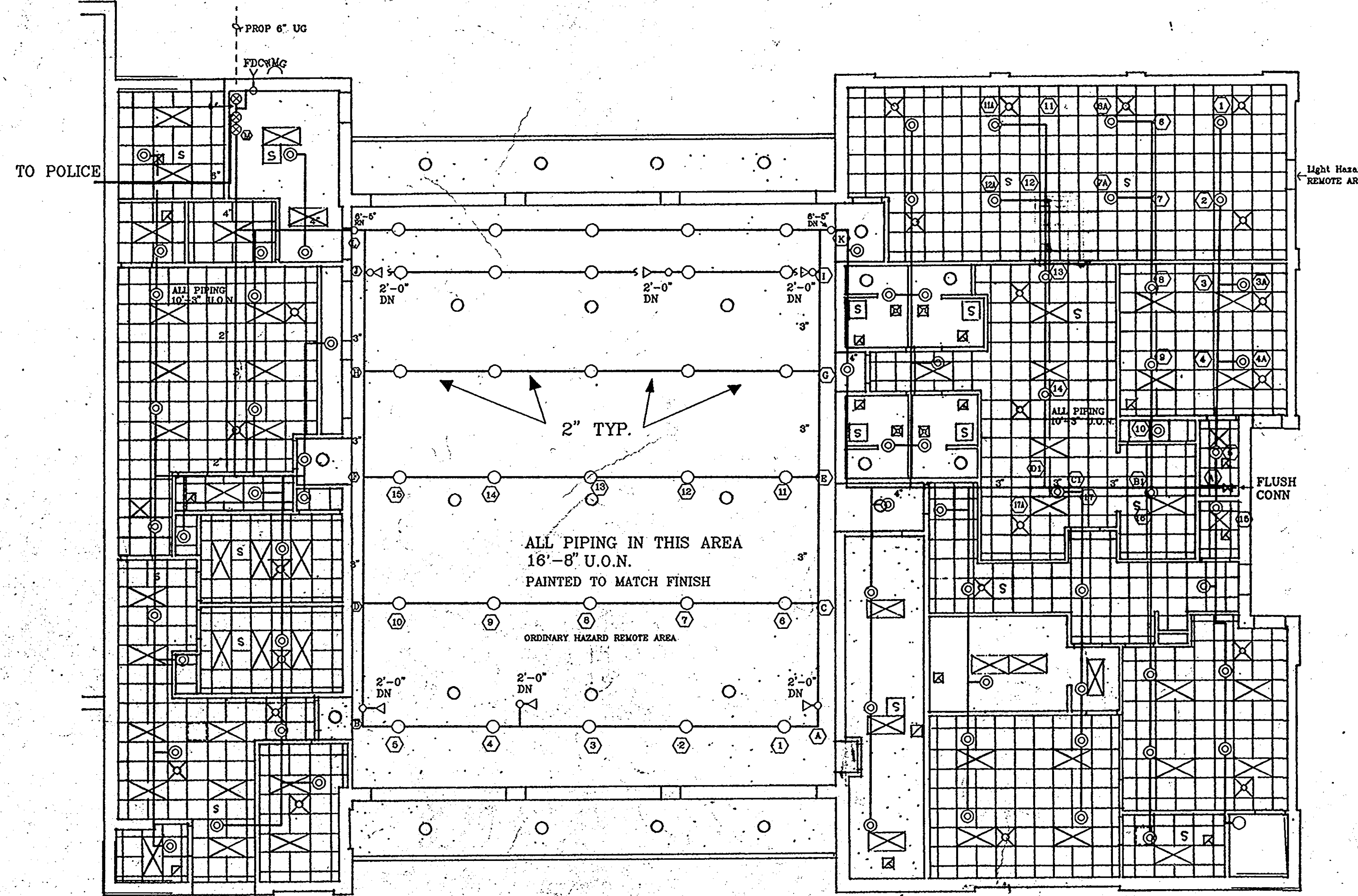


VICINITY MAP
SCALE: 1" = 600'



DETAIL A
WATER SERVICE CONFIGURATION
NOT TO SCALE

INSIDE METER CONNECTION
HOWARD COUNTY STANDARD
DETAIL W-344



FIRE DEPARTMENT
PHASE 1

SCOPE OF WORK: DESIGN OF TWO HYDRAULICALLY CALCULATED SPRINKLER SYSTEMS AND SUPPLEMENTARY SPRINKLER SYSTEM SPECIFICATIONS. ONE SYSTEM FOR THE FIRE STATION AND ONE SYSTEM FOR THE POLICE STATION. SYSTEM ZONING WILL BE COORDINATED WITH FIRE ALARM SYSTEM ZONING. BOTH OCCUPANCIES HAVE A MIXTURE OF LIGHT AND ORDINARY HAZARD AREAS. THEREFORE, SPACING AND LOCATION OF SPRINKLERS WILL REFLECT LIMITS OF EACH.

BOTH SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH NFPA STANDARD 13 INSTALLATION OF SPRINKLER SYSTEMS AND APPLICABLE HOWARD COUNTY REGULATIONS.

PIPING 1 1/2" AND SMALLER IS TO BE SCHEDULE 40 BLACK STEEL. PIPING 2" AND LARGER TO BE SCHEDULE 10 THINWALL BLACK STEEL. PIPING SHALL MEET OR EXCEED ASTM A53 STANDARDS. ALL PIPE MUST HAVE A MINIMUM OF 175 LBS WWP RATING. ALL SYSTEM PIPING TO BE AT 10'-3" U.O.N.

FITTINGS 1 1/2" AND SMALLER ARE TO BE CAST IRON. FITTINGS 2" AND LARGER TO BE GROOVED MECHANICAL TYPE COUPLINGS WITH FLUSH SEAL GASKETS. ALL FITTINGS TO COMPLY WITH SECTION 3-8.1 OF NFPA STANDARD 13 AND WILL HAVE A MINIMUM OF 175# WWP RATING.

HILTI (OR EQUAL) LISTED HANGERS TO BE USED WITH 3/8" A.T.R. AND TOP BEAM CLAMPS INSTALLED IN ACCORDANCE WITH NFPA STANDARD 13.

SPRINKLERS TO BE CENTRAL MODEL A RECESSED PENDANT, MODEL H SIDEWALL, MODEL A UPRIGHT AS WELL AS OMEGA PROHIBITOR PENDANT AND SIDEWALLS (FOR INSTITUTIONAL AREAS). SPRINKLER SPACING NOT TO EXCEED 130 SQ. FT. PER HEAD IN ORDINARY HAZARD AREAS AND 225 SQ. FT. PER HEAD IN LIGHT HAZARD AREAS.

THE SPRINKLER SYSTEM WILL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA STANDARD 13.

IT IS THE OWNERS RESPONSIBILITY TO PROVIDE HEAT THROUGHOUT WET SPRINKLER SYSTEM AREAS.

ALL PIPE DIMENSIONS ARE CENTER TO CENTER.

NEW 6" UNDERGROUND SERVICE TO BE INSTALLED BY OTHERS AND NOT PART OF THIS CONTRACT.

WATER TEST INFORMATION

DATE: 6/21/91	LOCATION: RT. 216 AND 29 DPW ANNEX
MEASURED	ADJUSTED
STATIC = 55 PSI	STATIC = 44 PSI
RESIDUAL = 46 PSI @ 950 GPM	RESIDUAL = 35 PSI

FLOW AT 20 PSI RESIDUAL = 1613 GPM

WATER ZONE = 550 MAIN SIZE = 12 INCH

PIPE SCHEDULE

- 1 SPRINKLER = 1"
- 2 SPRINKLERS = 1 1/2"
- 4 SPRINKLERS = 2"
- 6 SPRINKLERS = 2 1/2"

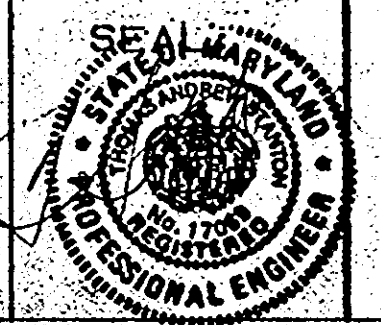
LEGEND

- 212° BRASS UPRIGHT
- ◁ 165° STANDARD SIDEWALL
- ⊙ 165° CHROME PENDANT (RECESSED)
- ⊕ SYSTEM RISER
- RISER OR DROP NIPPLE
- ⊕ WATER MOTOR GONG
- ⊕ FIRE DEPARTMENT CONNECTION

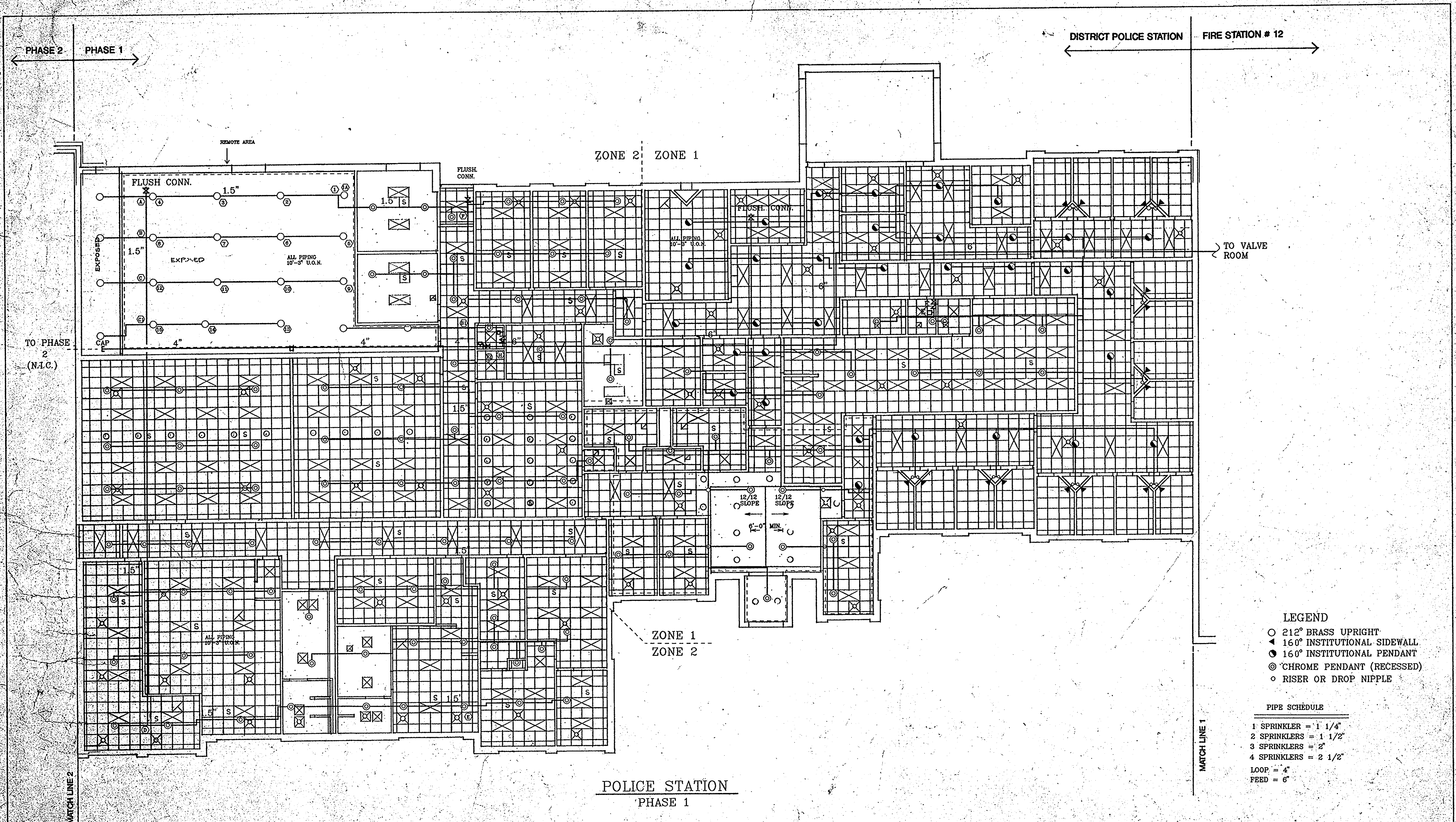
REVISIONS	FIRST FLOOR PLAN - SPRINKLER POLICE STATION PHASE 1	71 OF 90
AS BUILT 11/24/94	HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECTS NO. C-0227
	SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92
		DRAWING NO. FP 1.1

ARCHITECTURAL TECHNOLOGIES INC.
Architects and Construction Consultants
9192 Red Branch Rd., Suite 300
Columbia, MD 21045 (301) 995-4067

IN ASSOCIATION WITH:
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- LEGEND**
- 21/2° BRASS UPRIGHT
 - ◄ 160° INSTITUTIONAL SIDEWALL
 - 160° INSTITUTIONAL PENDANT
 - ⊙ CHROME PENDANT (RECESSED)
 - RISER OR DROP NIPPLE

- PIPE SCHEDULE**
- 1 SPRINKLER = 1 1/4"
 - 2 SPRINKLERS = 1 1/2"
 - 3 SPRINKLERS = 2"
 - 4 SPRINKLERS = 2 1/2"
 - LOOP = 4"
 - FEED = 6"

**POLICE STATION
PHASE 1**

REVISIONS	REFLECTED CEILING PLAN POLICE STATION	72 OF 90
	HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
AS BUILT	SCAGGSVILLE ANNEX 11225 ROUTE 216 LAUREL, MD. 20707	DATE: 3/25/92 DRAWING NO. FP-12

IN ASSOCIATION WITH:

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Architects and Construction Consultants
9192 Red Branch Rd, Suite 300
Columbia, MD, 21045 (301) 995-1067

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NOT ALL SYMBOLS INDICATED HERE MAY APPEAR ON THE CONTRACT DRAWINGS

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists various electrical symbols and their corresponding descriptions, such as switches, outlets, and lighting fixtures.

NOT ALL ABBREVIATIONS INDICATED HERE MAY APPEAR ON THE CONTRACT DRAWINGS

Table with 4 columns: ABBREV, DESCRIPTION, ABBREV, DESCRIPTION. Lists various electrical abbreviations and their corresponding descriptions, such as AMP, ACU, AF, and others.

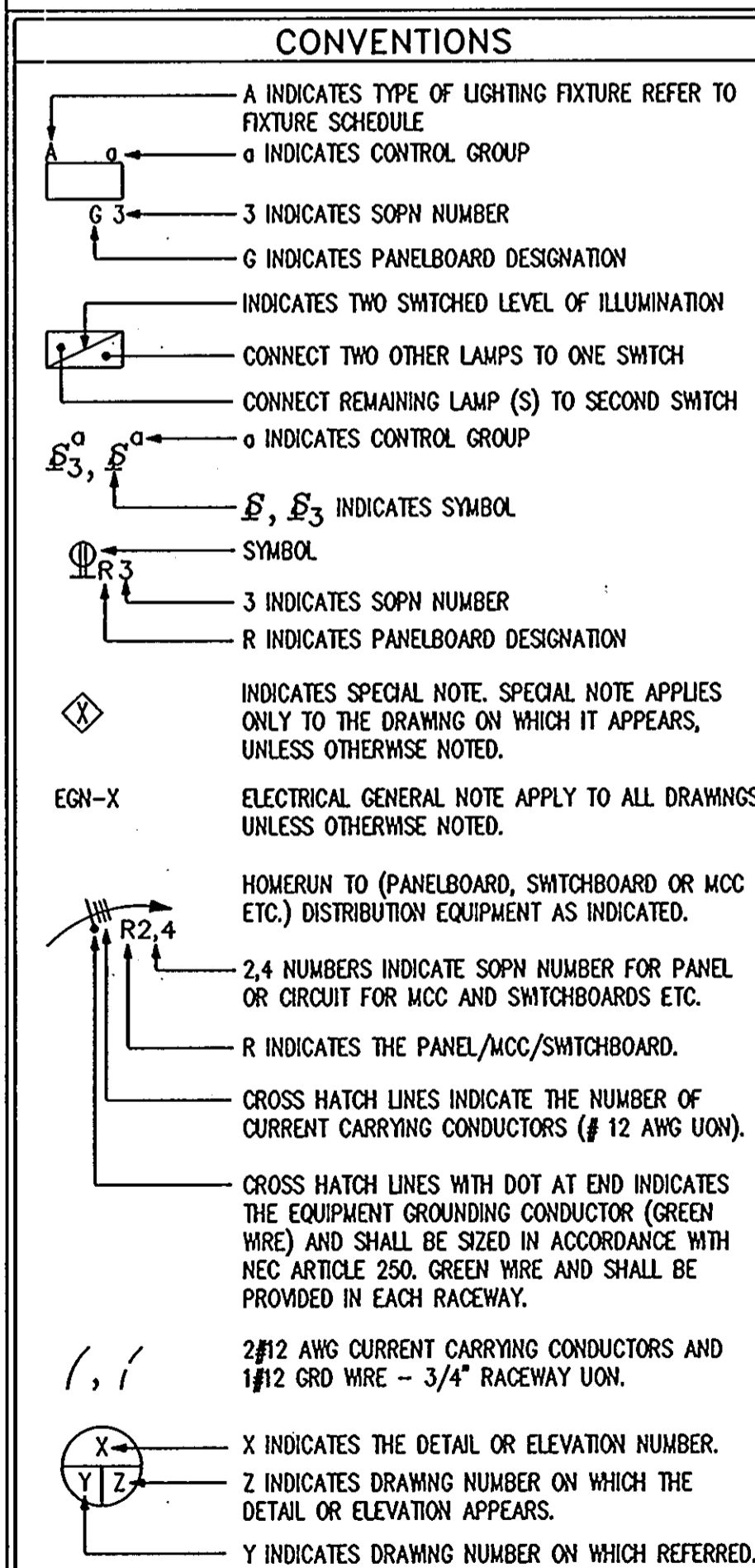
NOTE: UNLESS OTHERWISE INDICATED, STANDARD MOUNTING HEIGHTS FOR OUTLET BOXES FOR THE FOLLOWING EQUIPMENT/DEVICE SHALL BE ABOVE FINISHED FLOOR AND SHALL BE TO THE CENTER LINE OF EQUIPMENT

Table with 2 columns: EQUIPMENT/DEVICE, MOUNTING HEIGHT. Lists standard mounting heights for various electrical equipment and devices.

ELECTRICAL GENERAL NOTE

- List of electrical general notes (EGN-1 to EGN-22) providing specific instructions and requirements for the project, such as equipment locations, material standards, and safety protocols.

NOT ALL CONVENTIONS INDICATED HERE MAY APPEAR ON THE CONTRACT DRAWINGS



ELECTRICAL GENERAL NOTES AND LEGEND

HOWARD COUNTY PUBLIC SAFETY COMPLEX
SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD 20707

73 OF 90
CAPITAL PROJECT NO. C - 0227
DATE: 3/25/92
DRAWING NO. E0

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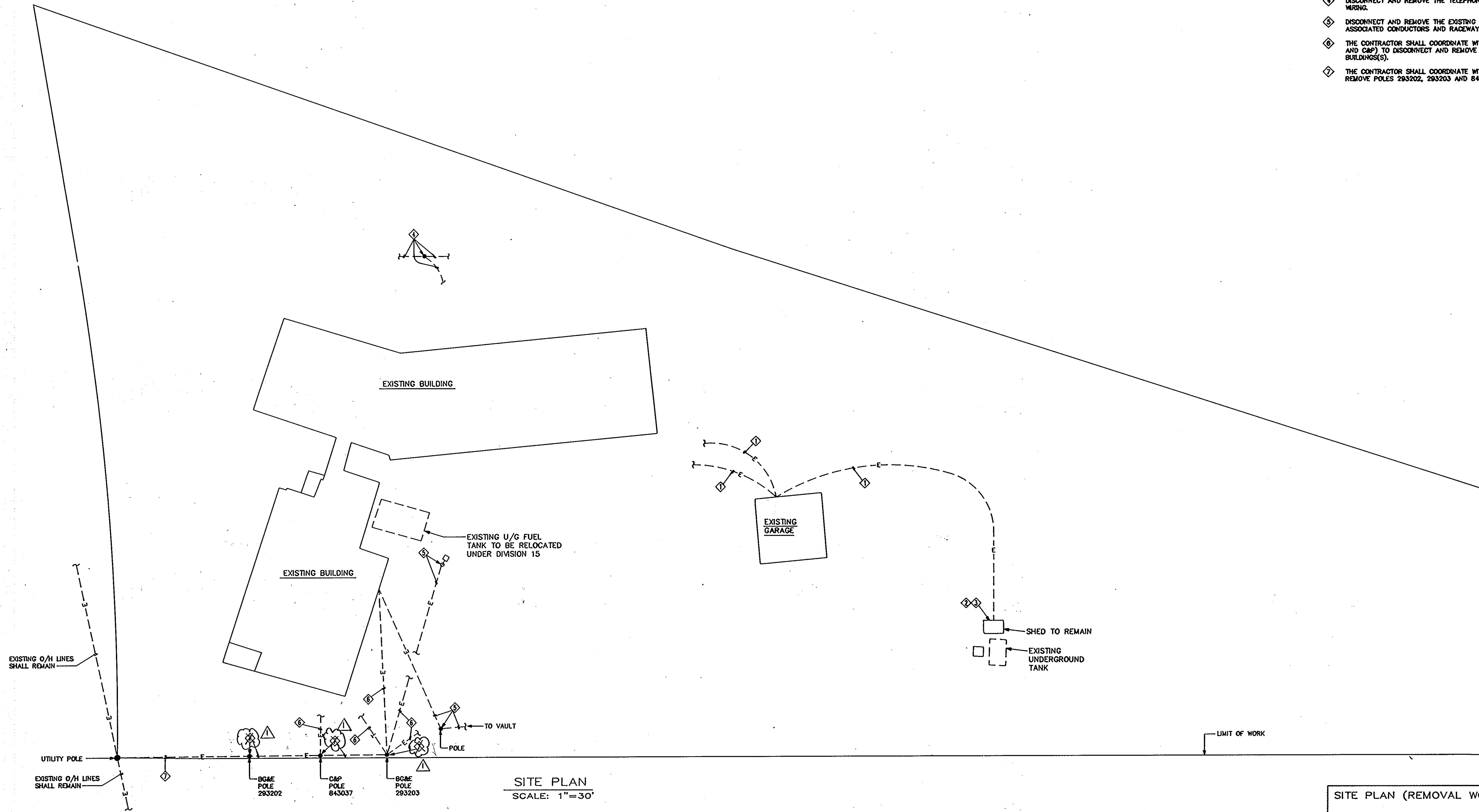
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MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
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Table with 2 columns: REVISIONS, DATE. Shows a single revision: A9 BUILT 11/24/94.

DRAWING NOTES:

- ① DISCONNECT AND REMOVE THE EXISTING U/G DIRECT CABLE AND ASSOCIATED RACEWAY AND CONNECTIONS.
- ② EXISTING SHED SHALL REMAIN UNDER PHASE 1. PROVIDE TEMPORARY SERVICE TO THE SHED UNTIL A PERMANENT ELECTRICAL POWER CONNECTION IS PROVIDED FROM THE BUILDING. THE ELECTRICAL POWER TO THE SHED SHALL NOT BE DISTURBED.
- ③ THE CONTRACTOR SHALL NOT REMOVE THE SERVICE TO SHED, UNLESS OTHER TEMPORARY OR/AND PERMANENT POWER IS PROVIDED FOR SHED. THE CONTRACTOR SHALL INCLUDE THE COST OF TEMPORARY EMERGENCY POWER TO THE SHED (MAY BE A PORTABLE GENERATOR) IN HIS BASE BID.
- ④ DISCONNECT AND REMOVE THE TELEPHONE POLE AND ASSOCIATED WIRING.
- ⑤ DISCONNECT AND REMOVE THE EXISTING POLE, LIGHT AND ALL OTHER ASSOCIATED CONDUCTORS AND RACEWAYS.
- ⑥ THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES (BG&E AND CAP) TO DISCONNECT AND REMOVE THE EXISTING SERVICES TO THE BUILDING(S).
- ⑦ THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO REMOVE POLES 293202, 293203 AND 843037 AND O/H LINES.



SITE PLAN
SCALE: 1"=30'

SITE PLAN (REMOVAL WORK)	74 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. E1.1

REVISIONS	
As BUILT	11/24/94

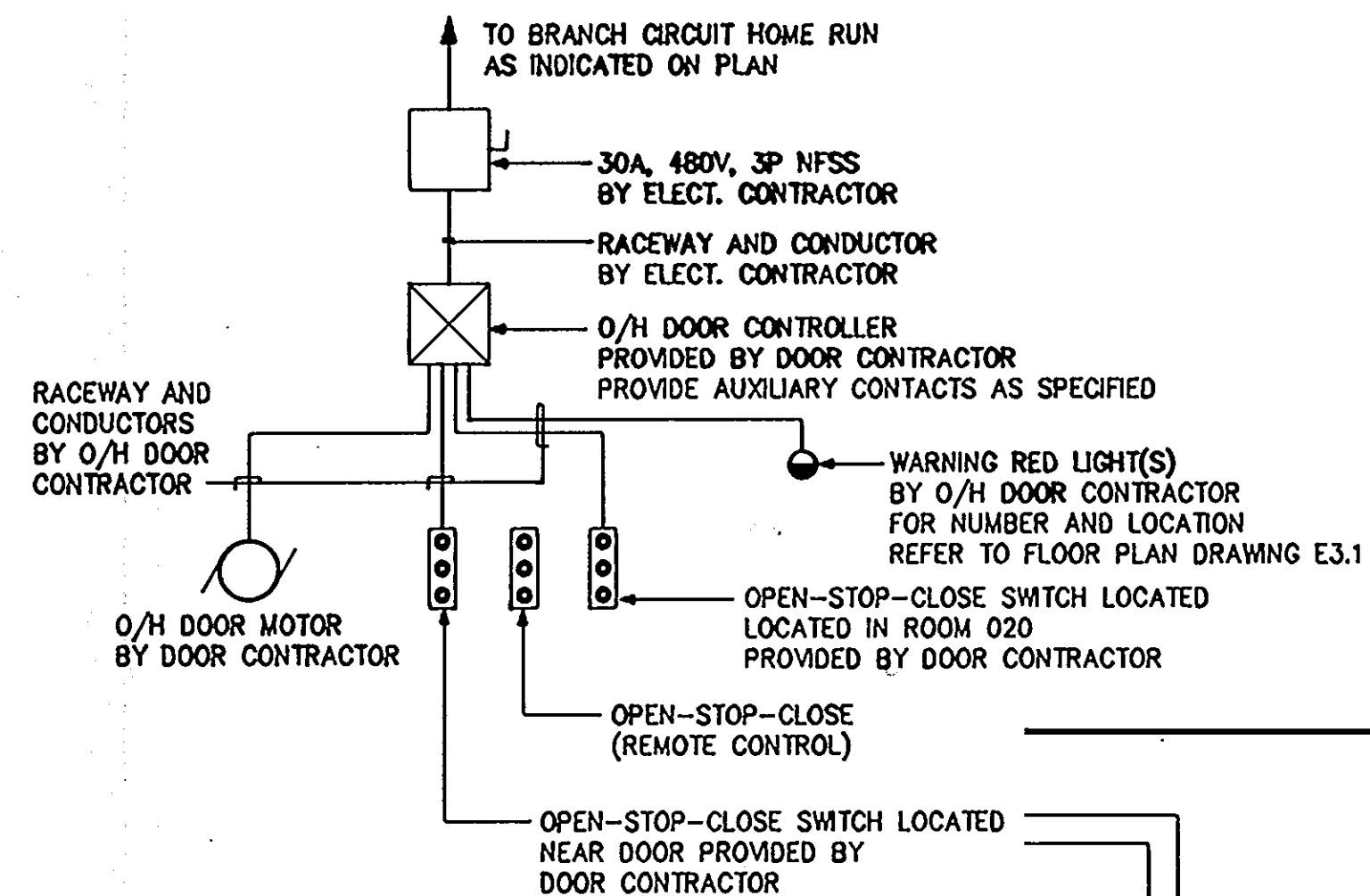
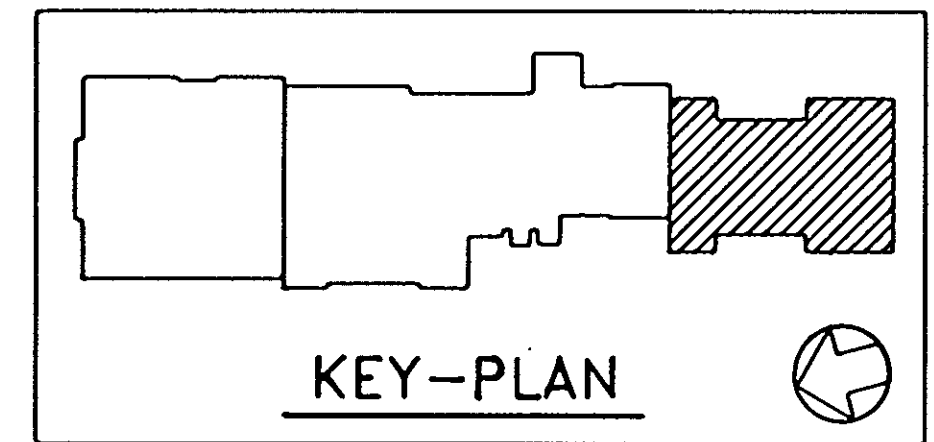
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Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia, MD 21045 (301)995-4067

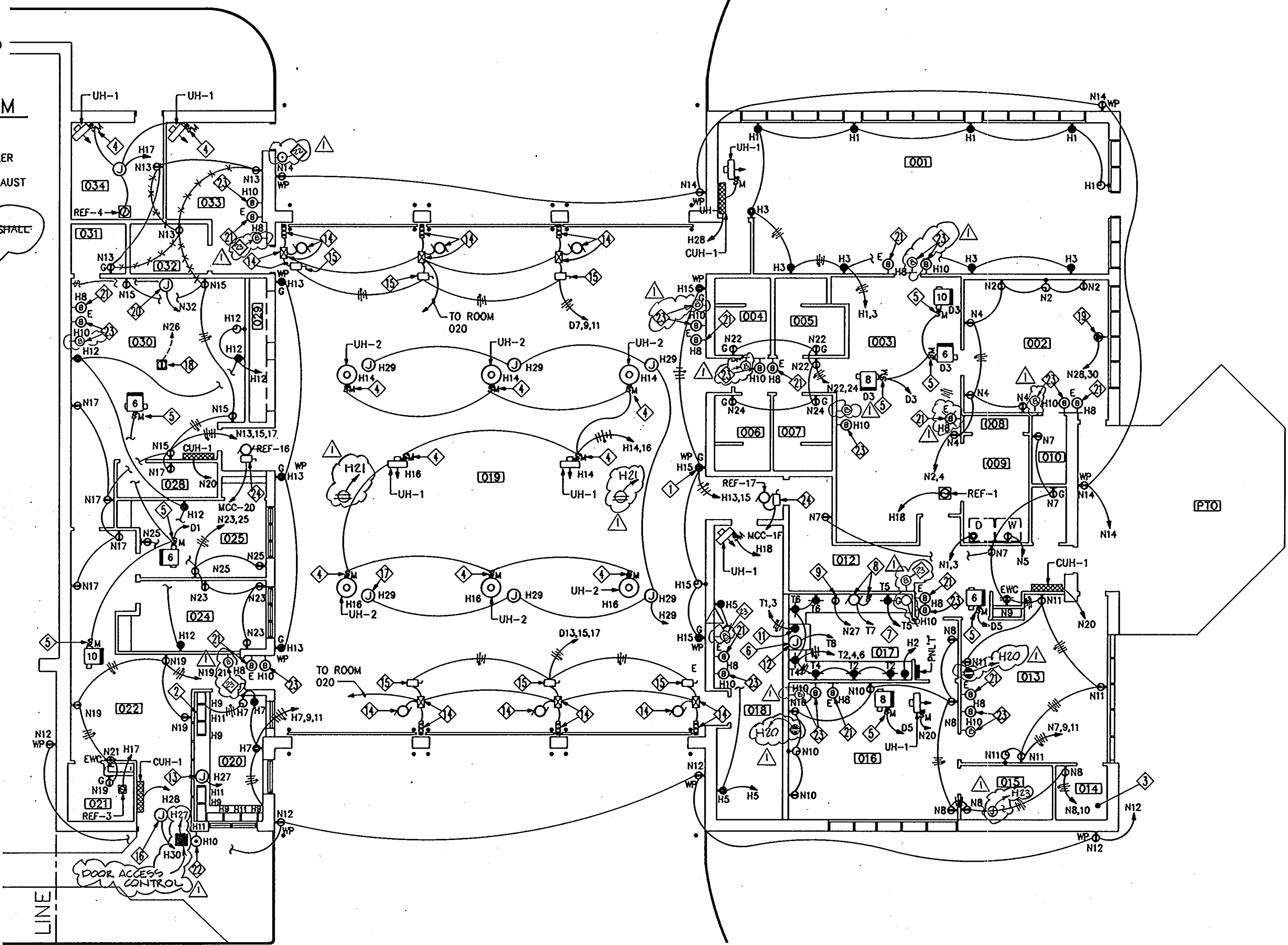
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*** OVERHEAD DOOR CONTROL DIAGRAM**
NO SCALE

* WHEN ANY OVERHEAD DOOR SHALL BE IN OPEN POSITION, THE CONTROLLER SHALL SEND A SIGNAL TO ATC DIVISION 15 CONTROLS TO SHUT DOWN THE FANS OF ALL THE UNIT HEATERS AND BOTH CARBON MONOXIDE EXHAUST FANS SYSTEM SHALL BE "TURNED ON".

* WHEN ANY EMERGENCY CALL SHALL BE RECEIVED AT FIRE STATION, THE OVERHEAD DOORS SHALL OPEN AUTOMATICALLY. THE TELEPHONE CALL SHALL CLOSE A CONTACT, TO SEND A SIGNAL TO O/H DOOR TO OPERATE.



FIRST FLOOR PLAN 1/8" = 1' - 0"
PHASE 1

- THE FOLLOWING NOTES ARE INDICATED IN \diamond ON THIS DRAWING.
- RECEPTACLES SHALL BE GFCI TYPE AND MOUNTED AT 36" AFF AS INDICATED (TYPICAL FOR RECEPTACLES IN THIS AREA).
 - PROVIDE WIREMOLD 6000 SERIES WITH RECEPTACLES AT 24 INCH ON-CENTER, AT 2" ABOVE COUNTER BACK SPLASH AND BELOW WINDOWS. COORDINATE THE LAYOUT WITH FURNITURE AND ARCH. LAYOUT OF FIRE CONSOLE AND COUNTER.
 - FOR ELECTRICAL CLOSET LAYOUT, REFER TO DRAWING E7.1.
 - PROVIDE 120 VOLT, 1 PHASE, FRACTIONAL HORSE-POWER MANUAL MOTOR STARTER WITH THERMAL O.L. PROTECTION AND HOA SWITCH. MOUNT STARTER NEAR UNIT ON KINDORF CHANNEL SUPPORT.
 - PROVIDE 277 VOLT, 1 PHASE FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH THERMAL O.L. PROTECTION AND HOA SWITCH. MOUNT THE STARTER NEAR UNIT ON KINDORF CHANNEL SUPPORT.
 - MANUAL MOTOR STARTER FOR HOOD EXHAUST FAN (REF-2) SHALL BE FURNISHED WITH EQUIPMENT. PROVIDE BRANCH CIRCUIT AS INDICATED VIA MANUAL STARTER.
 - ALL THE RECEPTACLES (FOR EQUIPMENT EXCEPT REFRIGERATOR) IN KITCHEN SHALL BE WIRED SUCH THAT IN CASE OF EMERGENCY CALL MAIN CIRCUIT BREAKER IN PANEL "T" SHALL BE "TRIPPED-OFF". PROVIDE WIRING AND RACEWAYS AS REQUIRED TO ROOM 020.
 - MOTOR AND SWITCH FOR FOOD WASTE DISPOSER. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE HARD WIRE CONNECTIONS.
 - RECEPTACLE FOR DISHWASHER. COORDINATE LOCATION WITH EQUIPMENT.
 - PROVIDE 50 AMP, 250 VOLT, 3 WIRE GROUNDING TYPE SPECIAL RECEPTACLE. COORDINATE THE RECEPTACLE NEMA CONFIGURATION WITH DRYER MANUFACTURER.
 - PROVIDE 70 AMP, 250 VOLT, 3 WIRE GROUNDING TYPE SPECIAL RECEPTACLE. COORDINATE THE RECEPTACLE NEMA CONFIGURATION WITH ELECTRIC RANGE MANUFACTURER.
 - PROVIDE A JUNCTION BOX WITH BRANCH CIRCUIT WIRING AS INDICATED FOR HOOD CONNECTIONS. FOR THE MOUNTING HEIGHT OF JB, COORDINATE WITH RANGE AND HOOD MANUFACTURER.
 - PROVIDE JUNCTION BOX ON WALL WITH BRANCH CIRCUIT AS INDICATED FOR FIRE CONTROL CONSOLE. COORDINATE THE LOCATION WITH ARCHITECTURAL LAYOUT OF FIRE CONSOLE EQUIPMENT.
 - OVERHEAD DOOR MOTOR, CONTROLLER AND OPEN-STOP-CLOSE STATION, PROVIDED UNDER ARCHITECTURAL SECTION 08360.
 - PROVIDE A 30 AMP, 480 VOLT, 3 POLE NFSS AND MOUNT NEAR CONTROLLER. ALSO PROVIDE BRANCH CIRCUIT WIRING AS INDICATED. FOR WIRING OF O/H DOOR, REFER TO DETAIL ON THIS DRAWING.
 - PROVIDE A JUNCTION BOX ABOVE CEILING ON DOOR, AND BRANCH CIRCUIT WIRING AS INDICATED, FOR DOOR CONTROL, LOCK, ETC.
 - CORD REELS SHALL BE POSITIONED OVERHEAD, CLOSEST TO THE FRONT OF VEHICLE ON DRIVER'S SIDE. CORD REEL SHALL BE APPLETON CATALOG #RE-7P2G OR EQUAL. (TYPICAL OF 6). PROVIDE BRANCH CIRCUIT AS INDICATED.
 - PROVIDE FLOOR MOUNTED BOX WITH RECEPTACLE AND PLATE FOR PROJECTOR. PROVIDE BRANCH CIRCUIT WIRING AS INDICATED.
 - PROVIDE 30A, 250 VOLT, 1 PHASE, 3 POLE GROUNDING TYPE SPECIAL RECEPTACLE, AND BRANCH CIRCUIT WIRING AS INDICATED.
 - JUNCTION BOX, ABOVE CEILING, FOR PROJECTOR SCREEN. PROVIDE BRANCH CIRCUIT WIRING AS INDICATED.
 - EMERGENCY RESPONSE SYSTEM HORN MOUNTED AT 78" AFF. THE SYSTEM HORN SHALL RING WHENEVER ANY EMERGENCY CALL IS RECEIVED AT STATION. PROVIDE WIRING AND RACEWAYS AS REQUIRED TO BRANCH CIRCUIT AS INDICATED.
 - DOOR BELL SYSTEM BELL MOUNTED AT 36" AFF.
 - DOOR BELL SYSTEM HORN MOUNTED AT 78" AFF. PROVIDE WIRING AND RACEWAY AS REQUIRED TO BRANCH CIRCUIT AS INDICATED.
 - EXHAUST FAN ON ROOF. PROVIDE 30 AMP, 480 VOLT, 3 POLE NEMA 4x NFSS AND MOUNT ON KINDORF CHANNEL SUPPORTS NEAR FAN. PROVIDE BRANCH CIRCUIT WIRING TO MCC AS INDICATED. RUN RACEWAY ALONG WITH DIVISION 15 PENETRATION OF ROOF.

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ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia, MD 21045 (301)995-4067

IN ASSOCIATION WITH :

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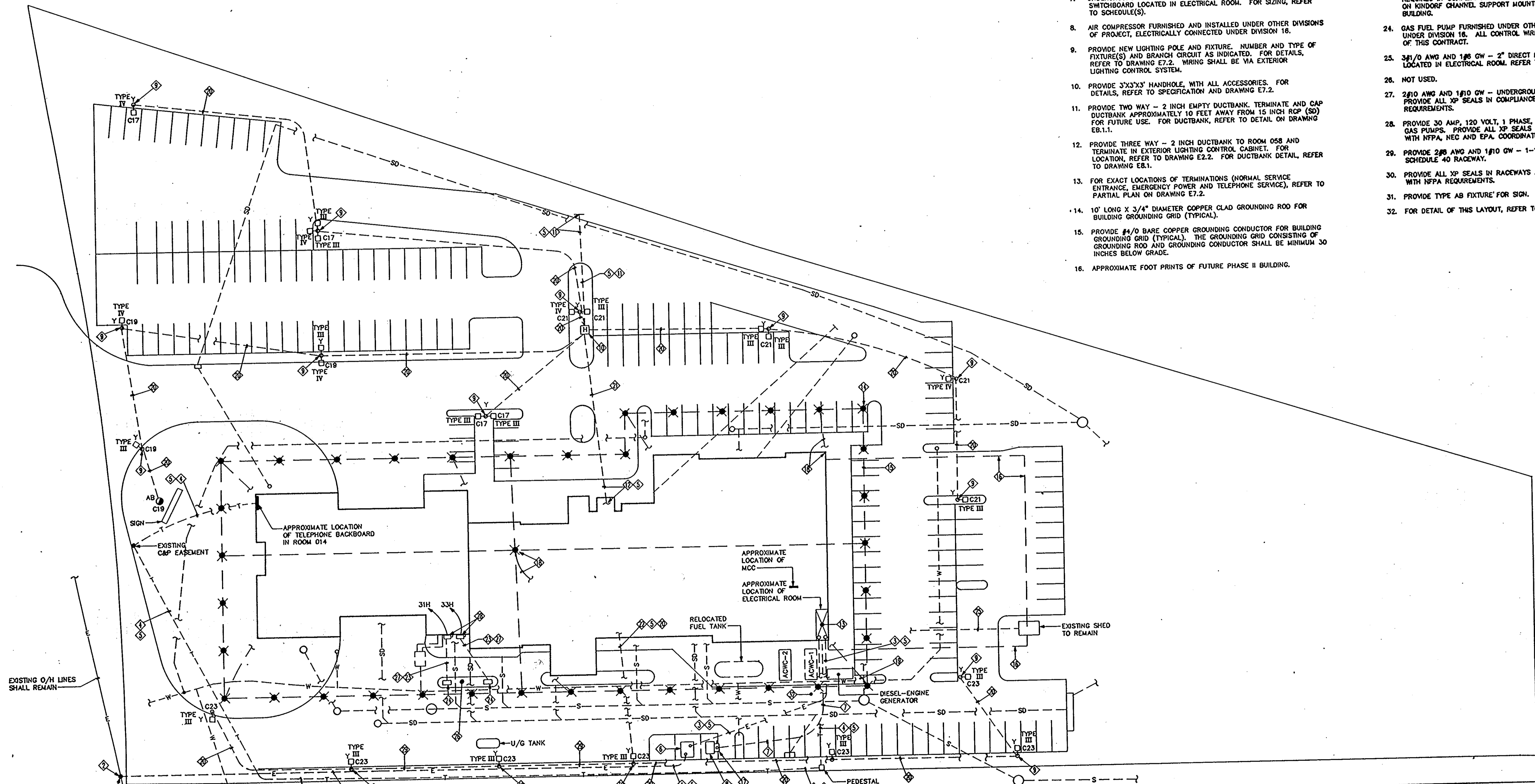
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REVISIONS	
AS BUILT	11/24/94

FIRST FLOOR PLAN - POWER FIRE STATION	75 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. E2.1

THE FOLLOWING NOTES ARE INDICATED IN \diamond ON THIS DRAWING.

1. PROVIDE 2 WAY - 5 INCH DUCTBANK FOR UTILITY MEDIUM VOLTAGE CONDUCTORS. FOR DUCTBANK REFER TO DETAIL ON DRAWING E8.1.
2. OVERHEAD TO UNDERGROUND RISER FOR UTILITY CO. CONDUCTORS. FOR POLE RISE DETAIL, REFER TO DRAWING E7.2.
3. PROVIDE 6 WAY - 4 INCH DUCTBANK FOR LOW VOLTAGE SERVICE CONDUCTORS FOR UTILITY CO. FOR DUCTBANK, REFER TO DETAIL ON DRAWING E8.1.
4. PROVIDE 2 WAY - 4 INCH DUCTBANK FOR COMMUNICATION CABLES. FOR DUCTBANK, REFER TO DETAIL ON DRAWING E8.1.
5. THE TOP OF DUCTBANK AND/OR CONCRETE ENVELOPE SHALL BE MINIMUM 30 INCHES BELOW GRADE.
6. UTILITY COMPANY TRANSFORMER PAD. FOR PAD DETAIL, REFER TO DETAIL ON DRAWING E8.1. COORDINATE WITH BG&E FOR EXACT SIZE OF PAD AND ANCHORAGE.
7. UNDERGROUND RACEWAY AND CONDUCTORS TO PANELBOARD AND/OR SWITCHBOARD LOCATED IN ELECTRICAL ROOM. FOR SIZING, REFER TO SCHEDULE(S).
8. AIR COMPRESSOR FURNISHED AND INSTALLED UNDER OTHER DIVISIONS OF PROJECT, ELECTRICALLY CONNECTED UNDER DIVISION 16.
9. PROVIDE NEW LIGHTING POLE AND FIXTURE. NUMBER AND TYPE OF FIXTURE(S) AND BRANCH CIRCUIT AS INDICATED. FOR DETAILS, REFER TO DRAWING E7.2. WIRING SHALL BE VIA EXTERIOR LIGHTING CONTROL SYSTEM.
10. PROVIDE 3"x3"x3" HANDHOLE, WITH ALL ACCESSORIES. FOR DETAILS, REFER TO SPECIFICATION AND DRAWING E7.2.
11. PROVIDE TWO WAY - 2 INCH EMPTY DUCTBANK. TERMINATE AND CAP DUCTBANK APPROXIMATELY 10 FEET AWAY FROM 15 INCH RCP (SD) FOR FUTURE USE. FOR DUCTBANK, REFER TO DETAIL ON DRAWING E8.1.1.
12. PROVIDE THREE WAY - 2 INCH DUCTBANK TO ROOM 058 AND TERMINATE IN EXTERIOR LIGHTING CONTROL CABINET. FOR LOCATION, REFER TO DRAWING E2.2. FOR DUCTBANK DETAIL, REFER TO DRAWING E8.1.
13. FOR EXACT LOCATIONS OF TERMINATIONS (NORMAL SERVICE ENTRANCE, EMERGENCY POWER AND TELEPHONE SERVICE), REFER TO PARTIAL PLAN ON DRAWING E7.2.
14. 10' LONG X 3/4" DIAMETER COPPER CLAD GROUNDING ROD FOR BUILDING GROUNDING GRID (TYPICAL).
15. PROVIDE #4/0 BARE COPPER GROUNDING CONDUCTOR FOR BUILDING GROUNDING GRID (TYPICAL). THE GROUNDING GRID CONSISTING OF GROUNDING ROD AND GROUNDING CONDUCTOR SHALL BE MINIMUM 30 INCHES BELOW GRADE.
16. APPROXIMATE FOOT PRINTS OF FUTURE PHASE II BUILDING.
17. PROVIDE 60 AMP, 250V, 2 POLE NFSS IN NEMA 4X ENCLOSURE AND MOUNT ON W.P. KINDORF CHANNEL. SUPPORT AND MOUNT NEAR UNIT.
18. CONNECTED TO BUILDING STEEL STRUCTURE (TYPICAL).
19. TO SERVICE ENTRANCE GROUNDING.
20. 2#8 AWG AND 1#10 GW-1-1/2" DIRECT BURIED P.V.C. SCHEDULE 40 REFER TO DETAIL ON DRAWING E8.1.
21. 6#8 AWG AND 1#10 GW - 2" DUCT. TWO (2) DUCTS SHALL BE SPARE FOR FUTURE USE.
22. PROVIDE 2 WAY-2" DUCTBANK TO ROOM 058 AND TERMINATE IN EXTERIOR LIGHTING CONTROL CABINET. FOR LOCATION, REFER TO DRAWING E2.2. FOR DUCTBANK DETAIL, REFER TO DRAWING E8.1.
23. PROVIDE 2 WAY-2" DIRECT BURIED GALVANIZED RIGID STEEL RACEWAYS AND TERMINATE IN FSS MOUNTED ON EXTERIOR WALL FROM DISCONNECT SWITCH. PROVIDE 1# 1-1/2" (ONE AND ONE HALF INCH) RACEWAY TO ELECTRICAL CLOSET, ROOM 014 FOR BRANCH CIRCUIT WIRING FOR GAS PUMPS. PROVIDE ALL XP SEALS AS REQUIRED IN COMPLIANCE WITH NFPA, NEC AND EPA. SUPPORT FSS ON KINDORF CHANNEL SUPPORT MOUNTED ON EXTERIOR WALL OF BUILDING.
24. GAS FUEL PUMP FURNISHED UNDER OTHER DIVISION AND CONNECTED UNDER DIVISION 16. ALL CONTROL WIRES UNDER OTHER DIVISIONS OF THIS CONTRACT.
25. 3#1/0 AWG AND 1#6 GW - 2" DIRECT BURIED PVC UP TO 3P. FSS LOCATED IN ELECTRICAL ROOM. REFER TO ONE LINE DIAGRAM.
26. NOT USED.
27. 2#10 AWG AND 1#10 GW - UNDERGROUND RACEWAY FOR GAS PUMPS. PROVIDE ALL XP SEALS IN COMPLIANCE WITH NFPA, NEC AND EPA REQUIREMENTS.
28. PROVIDE 30 AMP, 120 VOLT, 1 PHASE, NEMA 4X ENCLOSURE FSS FOR GAS PUMPS. PROVIDE ALL XP SEALS AS REQUIRED IN COMPLIANCE WITH NFPA, NEC AND EPA. COORDINATE WITH DOOR LOCATION.
29. PROVIDE 2#8 AWG AND 1#10 GW - 1-1/2" CONCRETE ENCASED PVC SCHEDULE 40 RACEWAY.
30. PROVIDE ALL XP SEALS IN RACEWAYS AS REQUIRED IN COMPLIANCE WITH NFPA REQUIREMENTS.
31. PROVIDE TYPE AB FIXTURE FOR SIGN.
32. FOR DETAIL OF THIS LAYOUT, REFER TO DRAWING E7.1.



SITE PLAN
SCALE: 1"=30'

SITE PLAN - PHASE 1	76 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. E1.2

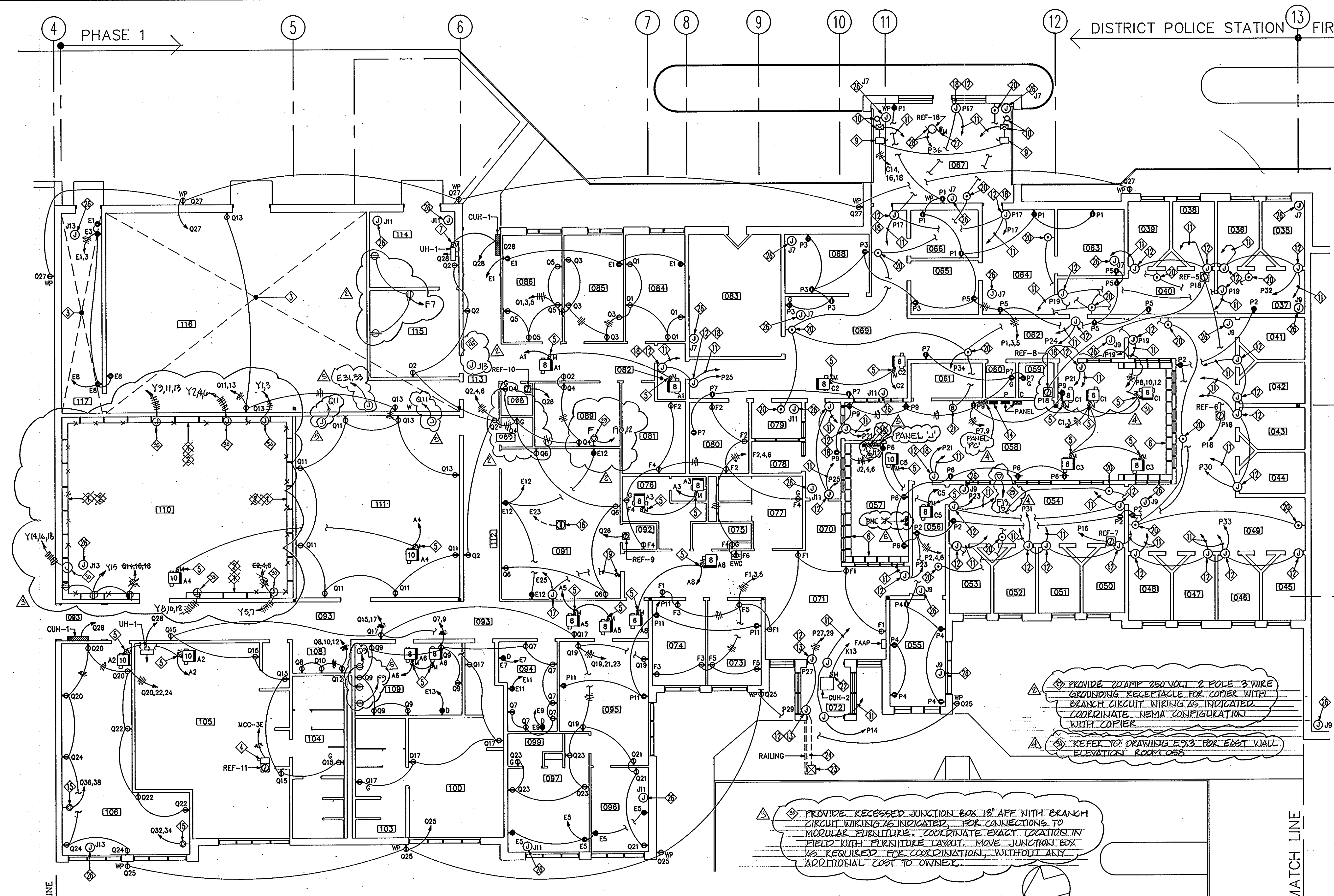
ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
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Columbia, MD 21045 (301)995-4067

IN ASSOCIATION WITH:

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MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING

SEAL:
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REVISIONS



- THE FOLLOWING NOTES ARE INDICATED IN \diamond ON THIS DRAWING
- PROVIDE WIREMOLD SERIES 8000 WITH THREE SECTIONS FOR NORMAL POWER, EMERGENCY POWER AND COMMUNICATION WIRES. PROVIDE RECEPTACLE AT EVERY 4' ON CENTER. MOUNT WIREMOLD AT 9" ABOVE COUNTER.
 - PROVIDE ALTERNATE RECEPTACLE ON DIFFERENCE PHASE AS WELL AS ON DIFFERENT POWER, I.E., PHASE A, B, C AND NORMAL AND EMERGENCY POWER. FOR EXAMPLE, E2, Q14, E4, Q16, E6, Q18, E2, Q14 AND SO ON.
 - FOR LAYOUT OF THIS ROOM, REFER TO DRAWING E7.2.
 - PROVIDE 30A, 480V, 3 POLE NFSS AND MOUNT ON WALL NEAR EXHAUST FAN.
 - PROVIDE 277 VOLT, 1 PHASE FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH THERMAL O.L. PROTECTION AND HOA SWITCH AND MOUNT ON KINDORF CHANNEL SUPPORT NEAR UNIT OR MOUNT ON UNIT.
 - PROVIDE WIREMOLD SERIES 8000 WITH TWO SECTIONS FOR POWER AND COMMUNICATION WIRES. PROVIDE RECEPTACLE EVERY TWO FEET. PROVIDE ALTERNATE RECEPTACLE ON DIFFERENCE PHASE, I.E., 8, 10, 12, 8, 10, 12 AND SO ON. MOUNT WIREMOLD AT 2" ABOVE COUNTER-BACK SPLASH AND BELOW WINDOW. COORDINATE WITH ARCH. DRAWINGS.
 - PROVIDE 120 VOLT, 1 PHASE, FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH THERMAL O.L. PROTECTION AND HOA SWITCH AND MOUNT ON KINDORF CHANNEL SUPPORT NEAR UNIT OR ON UNIT.
 - NOT USED.
 - PROVIDE 30 AMP, 480 V, 3 POLE NFSS FOR ROLLING DOORS.
- (B)**
- ROLLING DOOR CONTROLLER, MOTOR AND REMOTELY LOCATED (OPEN-STOP-CLOSE) STATION AND ASSOCIATED WIRING AND RACEWAY.
 - CONTROL WIRES AND RACEWAYS TO DOOR CONTROL REMOTE STATION LOCATED IN ROOM 057. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF STATION.
 - PROVIDE JUNCTION BOX ABOVE DOOR ABOVE CEILING WITH BRANCH CIRCUIT WIRING AS INDICATED FOR DOOR HARDWARE.
 - CONNECT POWER CONNECTIONS TO DOOR HEADER (TYPICAL).
 - EXTERIOR LIGHTING CONTROL CABINET.
 - PROVIDE 20A, 250V, 3 WIRE GROUNDING TYPE RECEPTACLE, AND THE BRANCH CIRCUIT WIRING AS INDICATED.
 - PROVIDE FLOOR MOUNTED RECEPTACLE AND COVER AND BRANCH CIRCUIT WIRING AS INDICATED FOR PROJECTOR.
 - PROVIDE JUNCTION BOX ABOVE CEILING FOR PROJECTOR SCREEN. ALSO PROVIDE BRANCH CIRCUIT WIRING AS INDICATED.
- (D)**
- SECURITY PUSH BUTTON. SEE ARCHITECTURAL SECTIONS SECTION 08710 AND 11880. PROVIDE CONTROL WIRING TO PUSH BUTTON AS REQUIRED. FOR LOCATIONS OF PUSH BUTTONS, REFER TO ARCH. DRAWINGS.
 - PROVIDE SWITCH FOR PROJECTOR SCREEN AND CONTROL WIRES AND RACEWAYS.
 - PROVIDE PANIC STATION AND ASSOCIATED WIRING AND RACEWAY TO THE BRANCH CIRCUIT AS INDICATED. LOCATE PANIC STATION AT 30" AFT.
 - PROVIDE PANIC HORN AND ASSOCIATED WIRING AND RACEWAYS.
 - PROVIDE 277 VOLT, 1POLE, MANUAL MOTOR STARTER WITH HOA AND THERMAL OVERLOAD PROTECTION, AND MOUNT ON SUPPORTS NEAR CUH. PROVIDE BRANCH CIRCUIT WIRING AS INDICATED.
 - HANDICAP DOOR OPENER DEVICE FURNISHED UNDER ARCHITECTURAL DIVISION.
 - PROVIDE CONTROL WIRES FROM DOOR CONTROL TO EACH DEVICE.
 - PROVIDE PAGING SYSTEM CONTROL PANEL.
 - PROVIDE JUNCTION BOX AND BRANCH CIRCUIT WIRING ABOVE CEILING FOR CCTV CAMERAS, AS INDICATED ON DRAWINGS E4.2 SEAL ALL OPENINGS WITH SEALANTS AS SPECIFIED IN ARCHITECTURAL DIVISION.
 - PROVIDE 120V, 1 PHASE, HORSE POWER RATED NEMA 4, MANUAL MOTOR STARTER WITH THERMAL O.L. PROTECTION AND HOA SWITCH AND MOUNT NEAR FAN ON ROOF.
 - THE EXHAUST FAN SHALL TURN ON WHENEVER ANY DOOR IS OPENED OR CLOSED. THE OPENING OR CLOSING OF DOOR SHALL ACTUATE AN ADJUSTABLE TIMER TO TURN THE FAN ON. THE FAN SHALL TURN OFF AFTER PRE SET TIME. LOCATE TIMER IN ROOM 067.

\diamond PROVIDE 20AMP 250 VOLT 2 POLE 3 WIRE GROUNDING RECEPTACLE FOR COPIER WITH BRANCH CIRCUIT WIRING AS INDICATED. COORDINATE NEMA CONFIGURATION WITH COPIER.

\diamond PROVIDE RECESSED JUNCTION BOX 18" AFF WITH BRANCH CIRCUIT WIRING AS INDICATED FOR CONNECTIONS TO MODULAR FURNITURE. COORDINATE EXACT LOCATION IN FIELD WITH FURNITURE LAYOUT. MOVE JUNCTION BOX AS REQUIRED FOR COORDINATION, WITHOUT ANY ADDITIONAL COST TO OWNER.

FIRST FLOOR PLAN 1/8" = 1' - 0"
PHASE 1

1650

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Columbia, MD 21045 (301)995-4067

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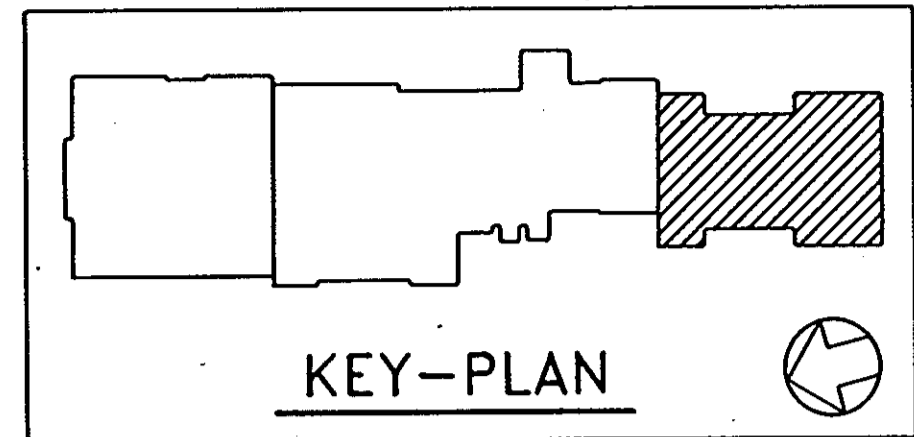
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CHANGE BULLETIN - 3	
CHANGE BULLETIN - 4	
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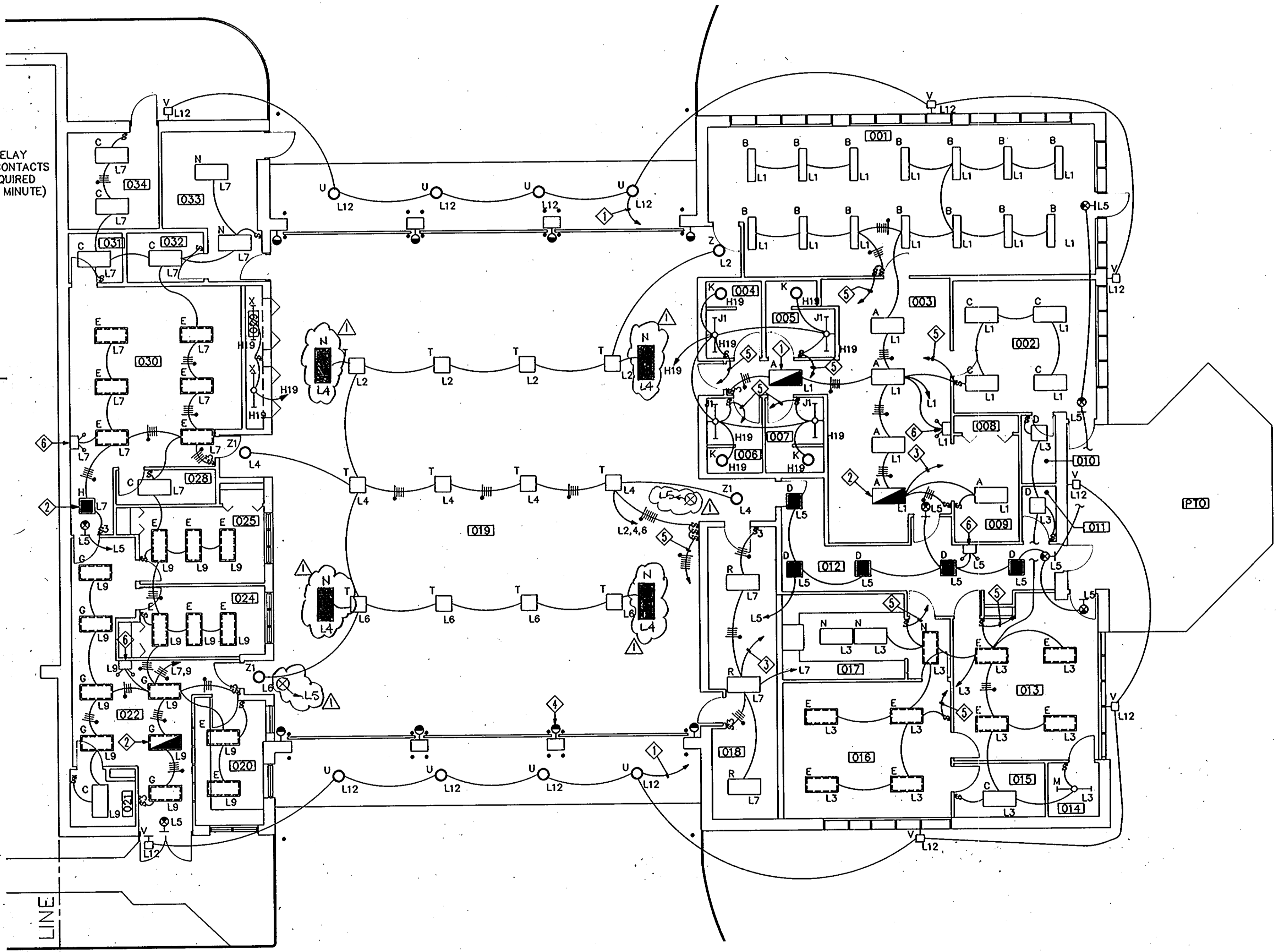
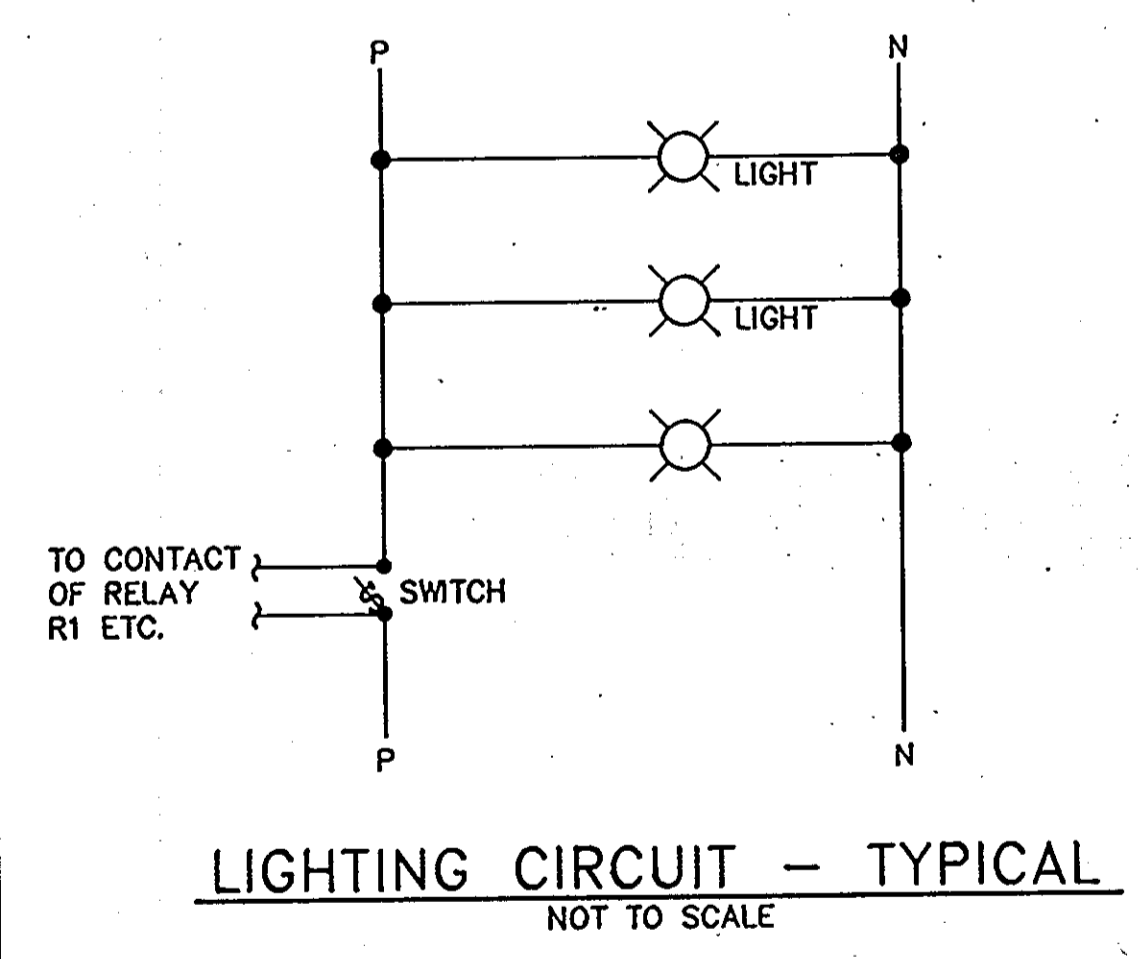
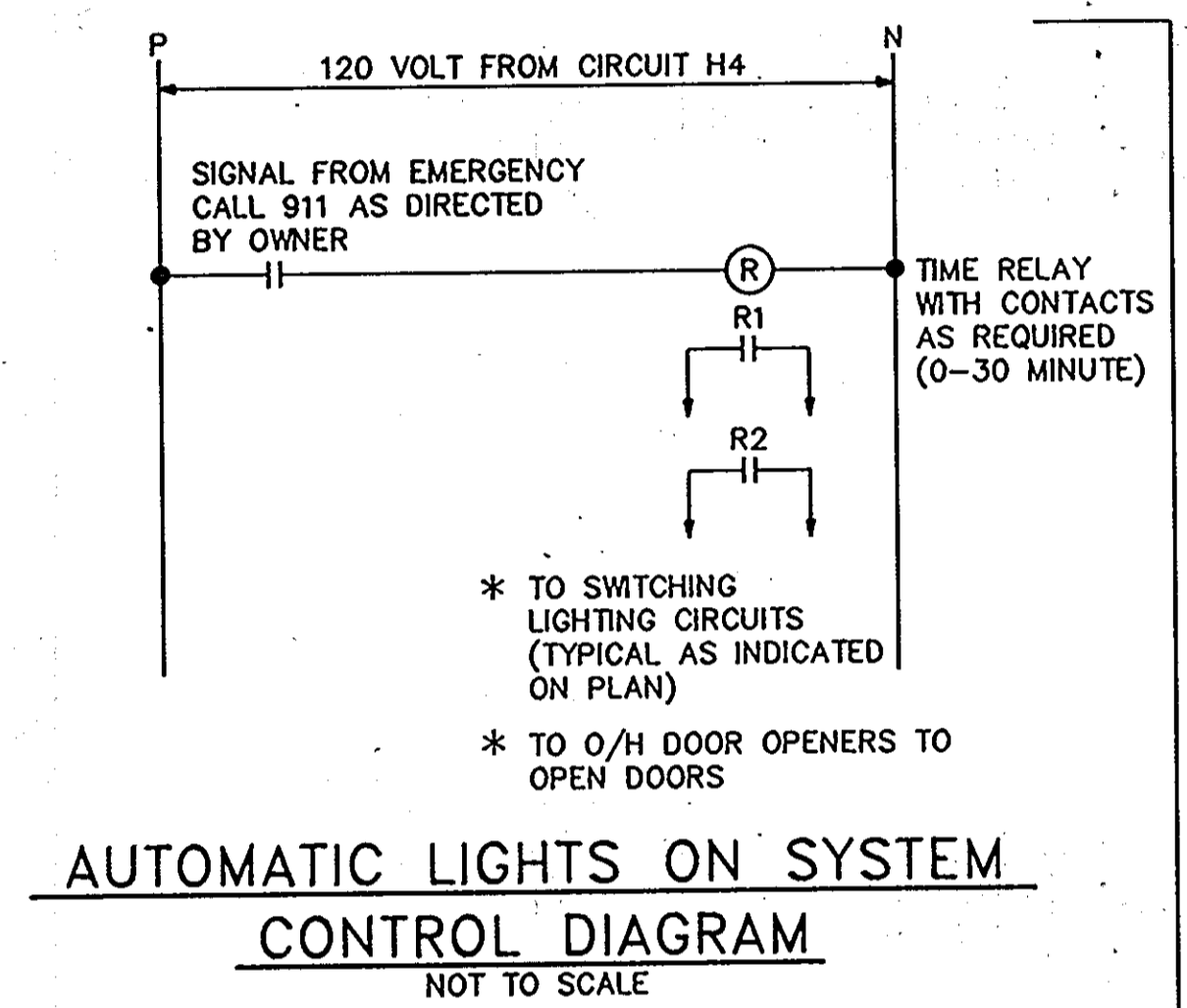
FIRST FLOOR PLAN - POWER
POLICE STATION PHASE 1

HOWARD COUNTY
PUBLIC SAFETY COMPLEX
SCAGGSVILLE ANNEX
11226 ROUTE 216
LAUREL, MD 20707

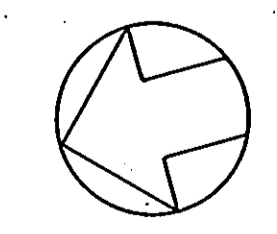
77 OF 90
CAPITAL PROJECT NO. C - 0227
DATE: 3/25/92
DRAWING NO. E2.2



- THE FOLLOWING NOTES ARE INDICATED IN \diamond ON THIS DRAWING
1. TO BRANCH CIRCUIT AS INDICATED VIA EXTERIOR LIGHTING CONTROL PANEL LOCATED IN ROOM 014.
 2. NIGHT LIGHT FIXTURE SHALL BE CONNECTED ON BRANCH CIRCUIT AS INDICATED AHEAD OF ANY SWITCHING (TYPICAL).
 3. LIGHTING SYSTEM FOR ROOMS 003, 018, AND OTHERS AS INDICATED UNDER DRAWING NOTE 5, SHALL BE CONNECTED SUCH THAT WHENEVER ANY EMERGENCY CALL (911) SHALL BE RECEIVED AT THE FIRE STATION, A RELAY SHALL BE ENERGIZED AND THE LIGHTING FOR ROOM 003, 018 AND OTHER ROOMS SHALL BE "TURNED ON" IMMEDIATELY, AUTOMATICALLY, WITH A MANUAL OVERRIDE. THE RELAY SHALL BE CONTROLLED ON A TIMER (ADJUSTABLE 0-30 MINUTES, WITH SETTINGS AT EVERY 5 MINUTES) AFTER THE PRE-SET TIME ELAPSED, THE LIGHTS SHALL RETURN TO THE PREVIOUS MODE. CONTROL DIAGRAM INDICATED ON THIS DRAWING FOR GUIDANCE ONLY.
 4. OVERHEAD DOOR RED WARNING LIGHT PROVIDED BY OVERHEAD DOOR CONTRACTOR (TYPICAL OF 8). THE RED LIGHT SHALL TURN ON WHENEVER THE O/H DOORS ARE CLOSED.
 5. WIRES AS REQUIRED TO THE "AUTOMATIC LIGHTS ON SYSTEM" AS DESCRIBED ABOVE UNDER DRAWING NOTE 3, AND CONTROL DIAGRAM INDICATED ON THIS DRAWING.
 6. THE FIXTURE SHALL BE CONNECTED, TO THE BRANCH CIRCUIT AS INDICATED, AHEAD OF ANY SWITCHING IN COMPLIANCE WITH NEC ARTICLE 700-12(f).



FIRST FLOOR PLAN 1/8" = 1' - 0"
PHASE 1



FIRST FLOOR PLAN - LIGHTING FIRE STATION	78 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92
	DRAWING NO. E3.1

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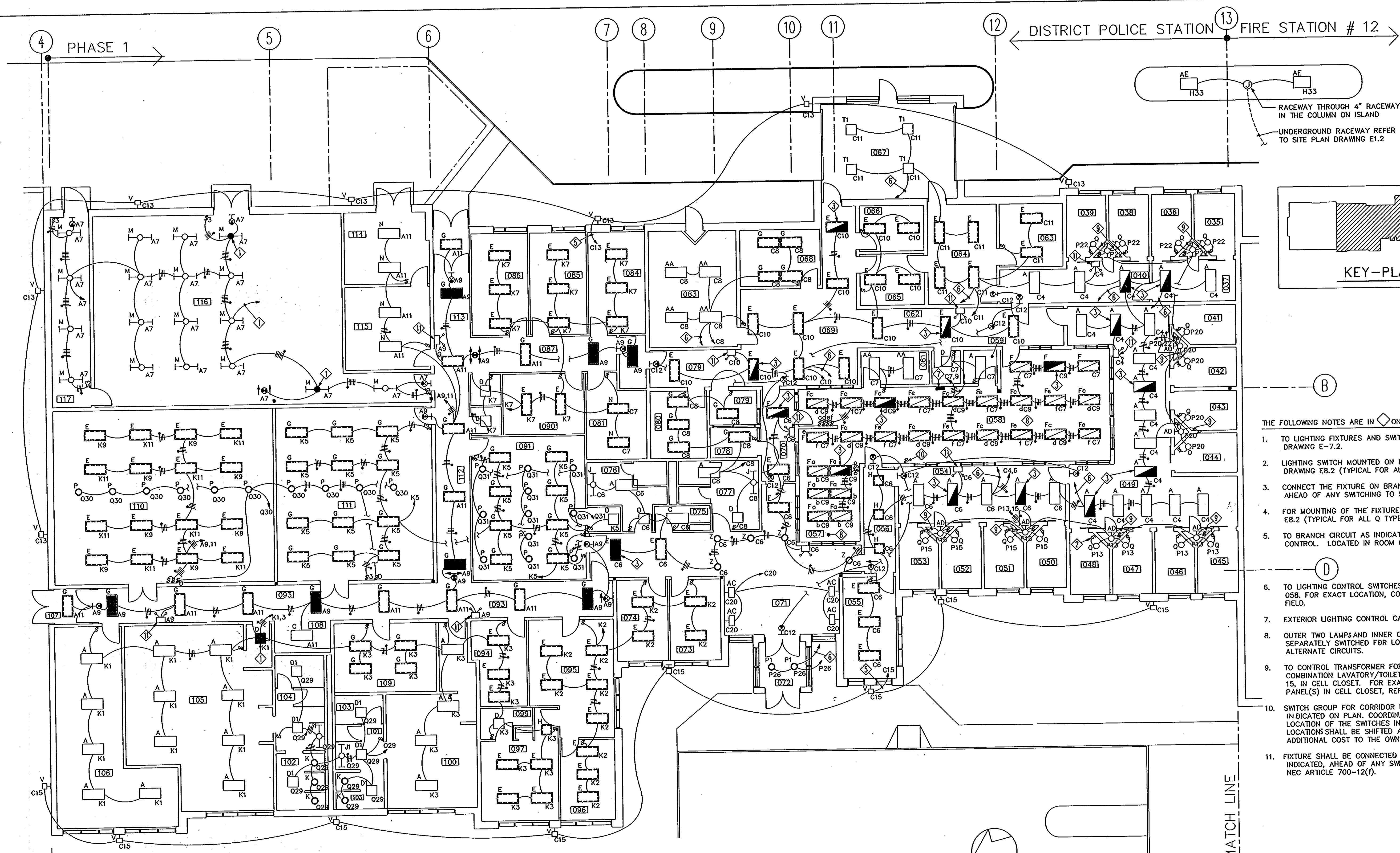
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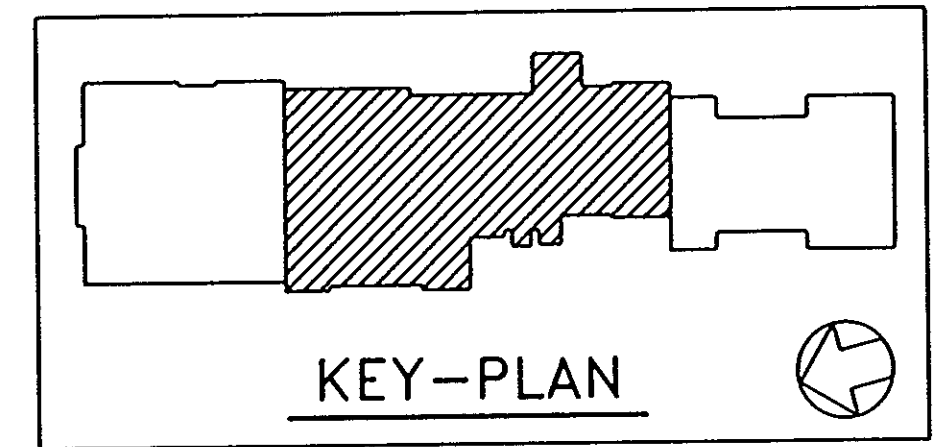
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\triangle AS BUILT	11/24/92



DISTRICT POLICE STATION FIRE STATION # 12



- THE FOLLOWING NOTES ARE IN \diamond ON THIS DRAWING
- TO LIGHTING FIXTURES AND SWITCHES IN AHU. REFER TO DRAWING E-7.2.
 - LIGHTING SWITCH MOUNTED ON FIXTURE. REFER TO DETAIL ON DRAWING E8.2 (TYPICAL FOR ALL CELLS).
 - CONNECT THE FIXTURE ON BRANCH CIRCUIT AS INDICATED, AHEAD OF ANY SWITCHING TO SERVE AS NIGHT LIGHT.
 - FOR MOUNTING OF THE FIXTURE, REFER TO DETAIL ON DRAWING E8.2 (TYPICAL FOR ALL Q TYPE FIXTURES).
 - TO BRANCH CIRCUIT AS INDICATED VIA EXTERIOR LIGHTING CONTROL. LOCATED IN ROOM 058.
 - TO LIGHTING CONTROL SWITCHES LOCATED IN CONTROL ROOM 058. FOR EXACT LOCATION, COORDINATE AS DIRECTED IN FIELD.
 - EXTERIOR LIGHTING CONTROL CABINET.
 - OUTER TWO LAMPS AND INNER ONE LAMP IN ROOM 058 SHALL BE SEPARATELY SWITCHED FOR LOW LEVEL ILLUMINATION ON ALTERNATE CIRCUITS.
 - TO CONTROL TRANSFORMER FOR CONTROL PANEL(S) FOR COMBINATION LAVATORY/TOILET FURNISHED UNDER DIVISION 15, IN CELL CLOSET. FOR EXACT LOCATION OF CONTROL PANEL(S) IN CELL CLOSET, REFER TO DIVISION 15 DRAWINGS.
 - SWITCH GROUP FOR CORRIDOR LIGHTS AND OTHER LIGHTS AS INDICATED ON PLAN. COORDINATE WITH OWNER FOR EXACT LOCATION OF THE SWITCHES IN THE FIELD. THE SWITCHES LOCATIONS SHALL BE SHIFTED AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
 - FIXTURE SHALL BE CONNECTED TO BRANCH CIRCUIT AS INDICATED, AHEAD OF ANY SWITCHING IN COMPLIANCE WITH NEC ARTICLE 700-12(f).

FIRST FLOOR PLAN 1/8" = 1' - 0" PHASE 1

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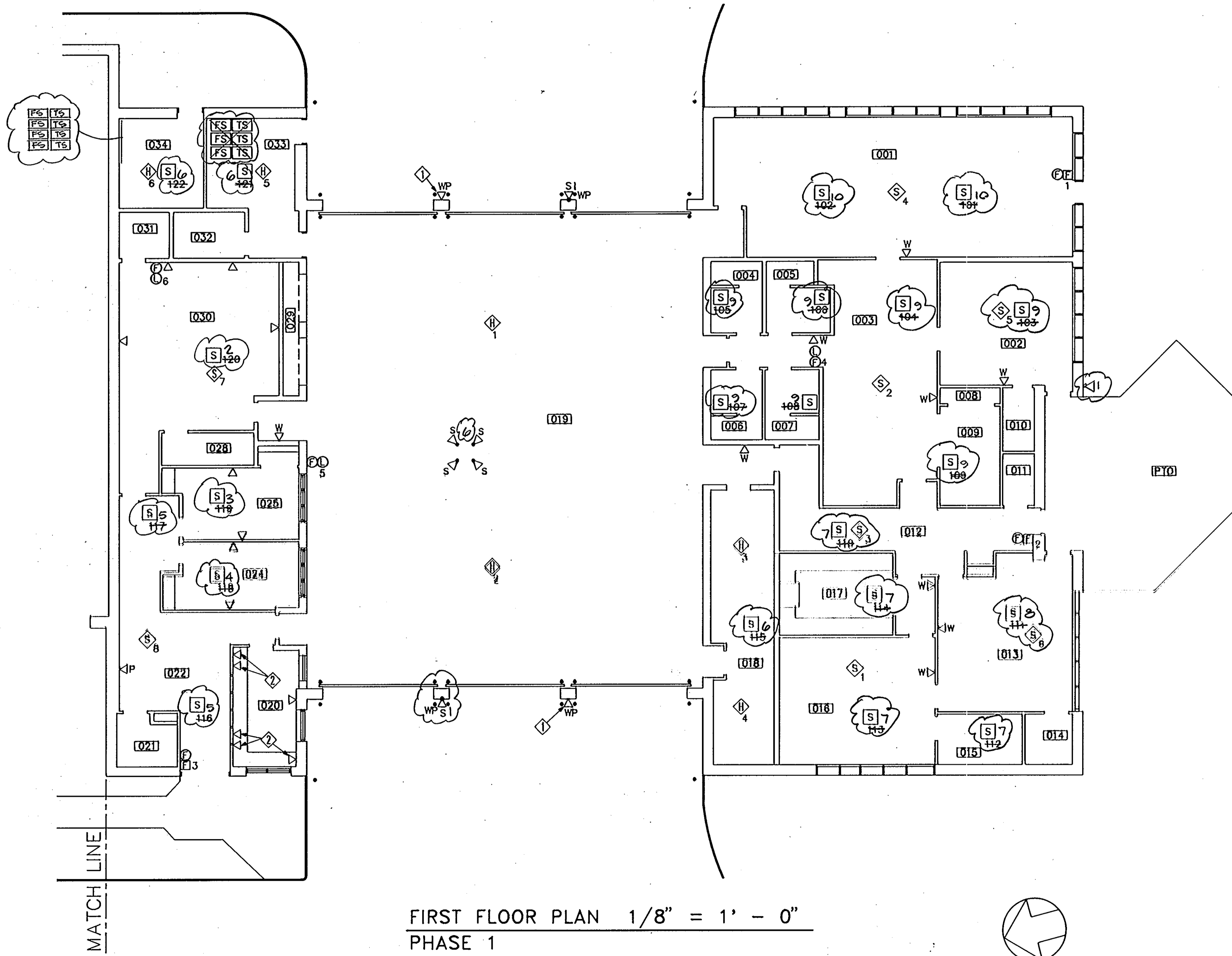
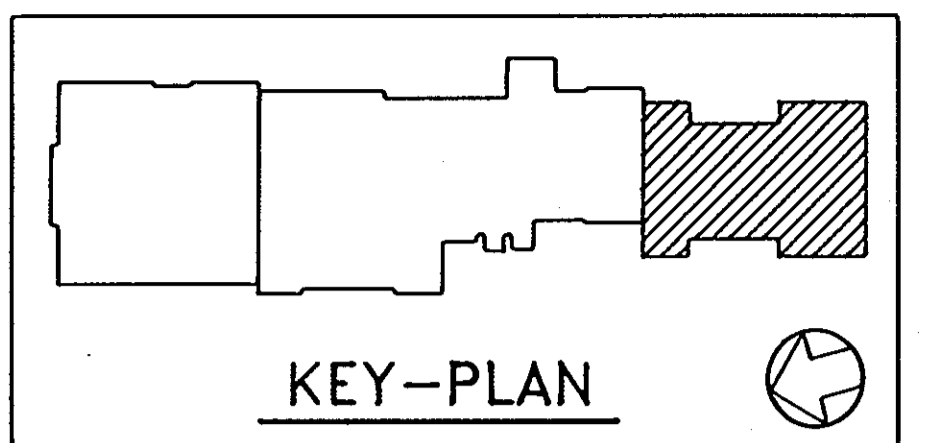
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REVISIONS

FIRST FLOOR PLAN - LIGHTING POLICE STATION PHASE 1	79 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. E3.2



DRAWING NOTES:

- 1 MOUNT WEATHER PROOF OUTLET AT 10'-0" AFF.
- 2 TELEPHONE OUTLETS MOUNTED IN THE WIREMOLD.

SPEAKER ZONES

- 1 OUTSIDE HORNS
- 2 TRAINING ROOM
- 3 ADMIN. OFFICE 1
- 4 ADMIN. OFFICE 2
- 5 LOBBY
- 6 APPARATUS BAY
- 7 DINING AREA
- 8 DAY ROOM
- 9 LOCKER ROOMS
- 10 BUNK ROOM

FIRST FLOOR PLAN 1/8" = 1' - 0"
PHASE 1

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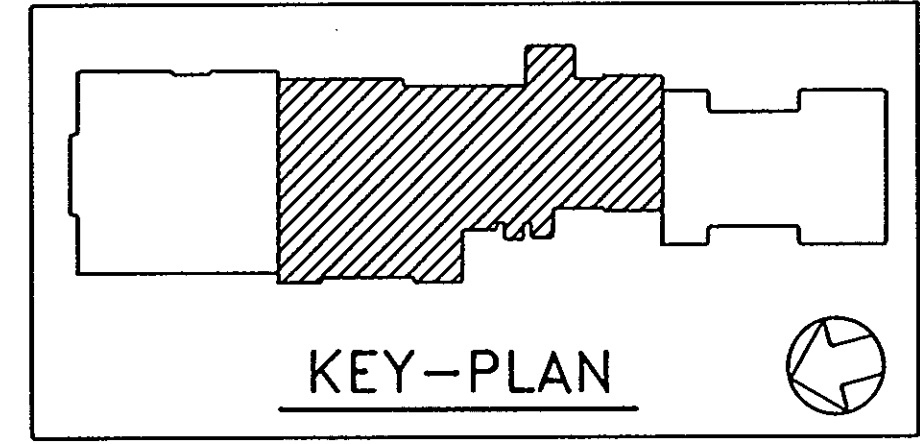
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FIRST FLOOR PLAN—SPECIAL SYSTEMS FIRE STATION	80 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. E4.1



- THE FOLLOWING NOTES ARE INDICATED IN \diamond ON THIS DRAWING
1. COMMUNICATION (TELEPHONE) OUTLETS IN WIREMOLD 6000 SERIES, MOUNTED AT 2" ABOVE COUNTER. REFER TO DRAWING NOTES ON DRAWING E2.2.
 2. FOR MOUNTING OF (S) (C) AND SMOKE DETECTOR IN THE CELL, REFER TO DETAIL ON DRAWING E-8.2. (TYPICAL FOR ALL CELLS AND ROOM 083).
 3. (S) AND (C) SHALL HAVE WEATHERPROOF ENCLOSURE AND SHALL BE MOUNTED AT 48" AFF. DEVICES SHALL BE ACCESSIBLE WITHOUT THE USE OF ANY TOOL.
 4. PROVIDE INTERCOM SPEAKER AND SWITCH AND ALL ASSOCIATED WIRING AND RACEWAYS FOR ROOM 078 AND 079.
 5. ADMINISTRATIVE CONTROL UNIT FOR PAGING SYSTEM LOCATED IN THE ROOM AS DIRECTED BY THE OWNER IN THE FIELD.

FIRST FLOOR PLAN 1/8" = 1' - 0"
PHASE 1

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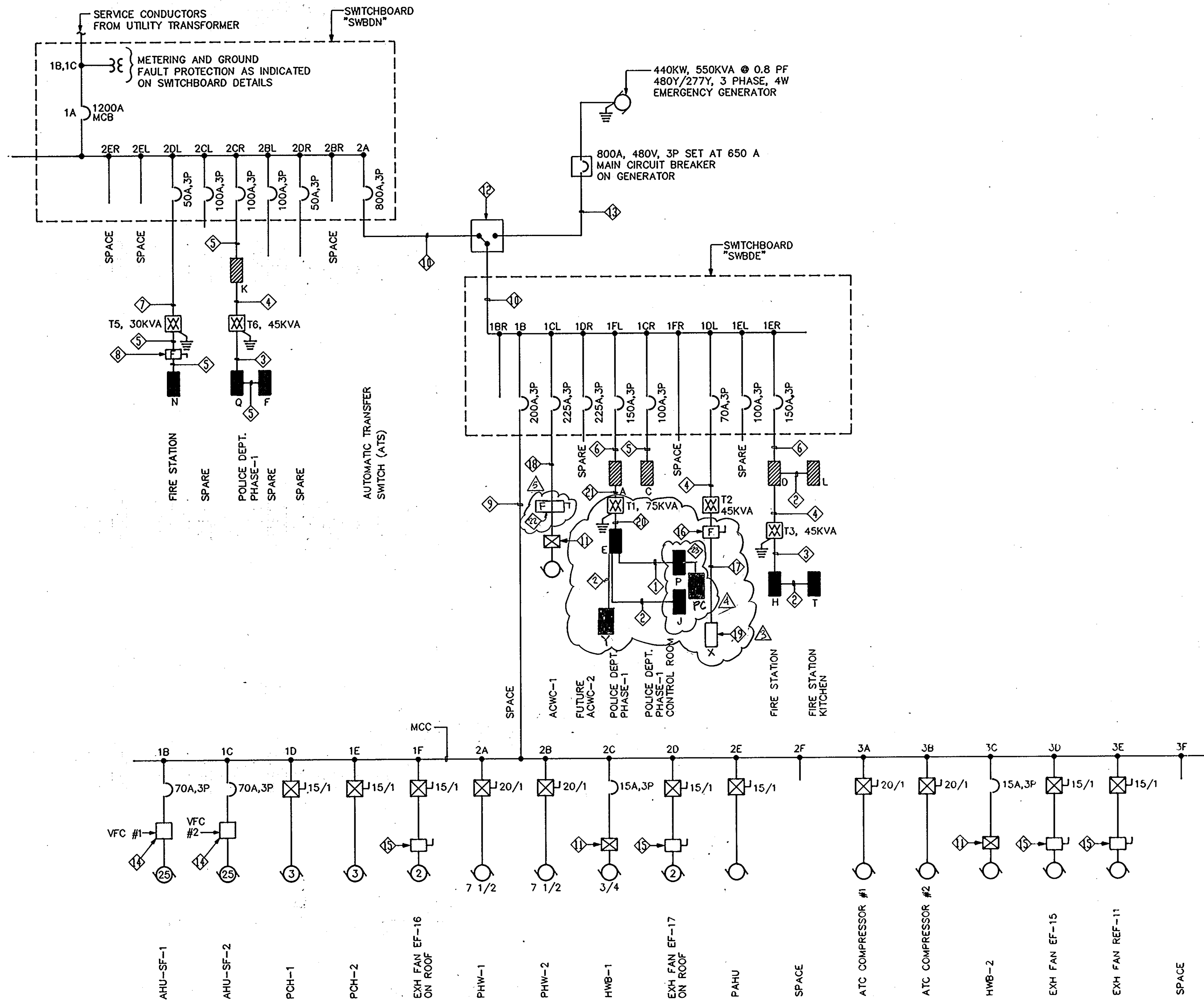
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FIRE PROTECTION ENGINEER: STANTON ENGINEERING

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REVISIONS

FIRST FLOOR PLAN-SPECIAL SYSTEM POLICE STATION PHASE 1	81 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. E4.2



ONE LINE DIAGRAM
NOT TO SCALE

NOTE: FOR WIRING SIZING FOR MCC, REFER TO MCC SCHEDULE

- DRAWING NOTES:**
- 1 4 # 2 AWG AND 1 # 6 GW - 1 1/2" RACEWAY.
 - 2 4 # 4 AWG AND 1 # 8 GW - 1 1/4" RACEWAY.
 - 3 4 # 2/0 AWG AND 1 # 6 GW - 2" RACEWAY.
 - 4 3 # 4 AWG AND 1 # 8 GW - 1" RACEWAY.
 - 5 4 # 3 AWG AND 1 # 8 GW - 1 1/4" RACEWAY.
 - 6 4 # 2/0 AWG AND 1 # 6 GW - 2" RACEWAY.
 - 7 3 # 6 AWG AND 1 # 10 GW - 1" RACEWAY.
 - 8 100 AMP, 250 V, 3P, FSS, FUSED AT 90 AMP.
 - 9 3 # 4/0 AWG AND 1 # 4 GW - 2 1/2" RACEWAY.
 - 10 3 SETS OF 4 #500 MCM AND 1 #2/0 GW - 4" RACEWAY EACH SET.
 - 11 CONTROL DEVICE PROVIDED UNDER DIVISION 15.
 - 12 800 AMP, 480 VOLT, 4 POLE, AUTOMATIC TRANSFER SWITCH.
 - 13 3 SETS OF 4 #350 MCM AND 1 #1/0 GW - 3" RACEWAY EACH SET.
 - 14 VFC FURNISHED UNDER DIVISION 15.
 - 15 30A, 480V, 3P DISCONNECT SWITCH AS INDICATED ON FLOOR PLANS.
 - 16 100 AMP, 250V, 3P, FSS; FUSED AT 100 AMP.
 - 17 3 # 1/0 AWG AND 1 # 6 - 2" RACEWAY.
 - 18 3 # 250 MCM AND 1 # 4 GW - 3" RACEWAY.
 - 19 EXISTING SQUARE-D (Q O C TYPE) 240V, DELTA 3 PHASE PANEL IN SHED.
 - 20 4 # 4/0 AWG AND 1 # 4 GW - 2 1/2" RACEWAY.
 - 21 3 # 3 AWG AND 1 # 8 GW - 1 1/4" RACEWAY.
 - 22 400/6000 3P/3R DISCONNECT FUSE @ 250A
 - 23 REFER TO PANEL SCHEDULE FOR FEEDER SIZE

NOTE
FOR DETAILED LAYOUT OF MCC SEE DWG E 72
FOR DETAILED LAYOUT OF SWBDS SEE DWG E B 2

XFMR DESIGNATION	SIZE	VOLTAGE AND CONNECTION		LOCATION	REMARKS
		PRIMARY	SECONDARY		
T1	75 KVA	480V, DELTA	208Y/120V, WYE	ROOM 117	
T2	45 KVA	480V, DELTA	240V DELTA	ROOM 117	GROUNDING
T3	45 KVA	480V, DELTA	208Y/120V, WYE	ROOM 014	
T4	-	-	-	-	
T5	30 KVA	480V, DELTA	208Y/120V, WYE	ROOM 117	
T6	45 KVA	480V, DELTA	208Y/120V, WYE	ROOM 117	

ONE LINE DIAGRAM - POWER	82 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. E6.1

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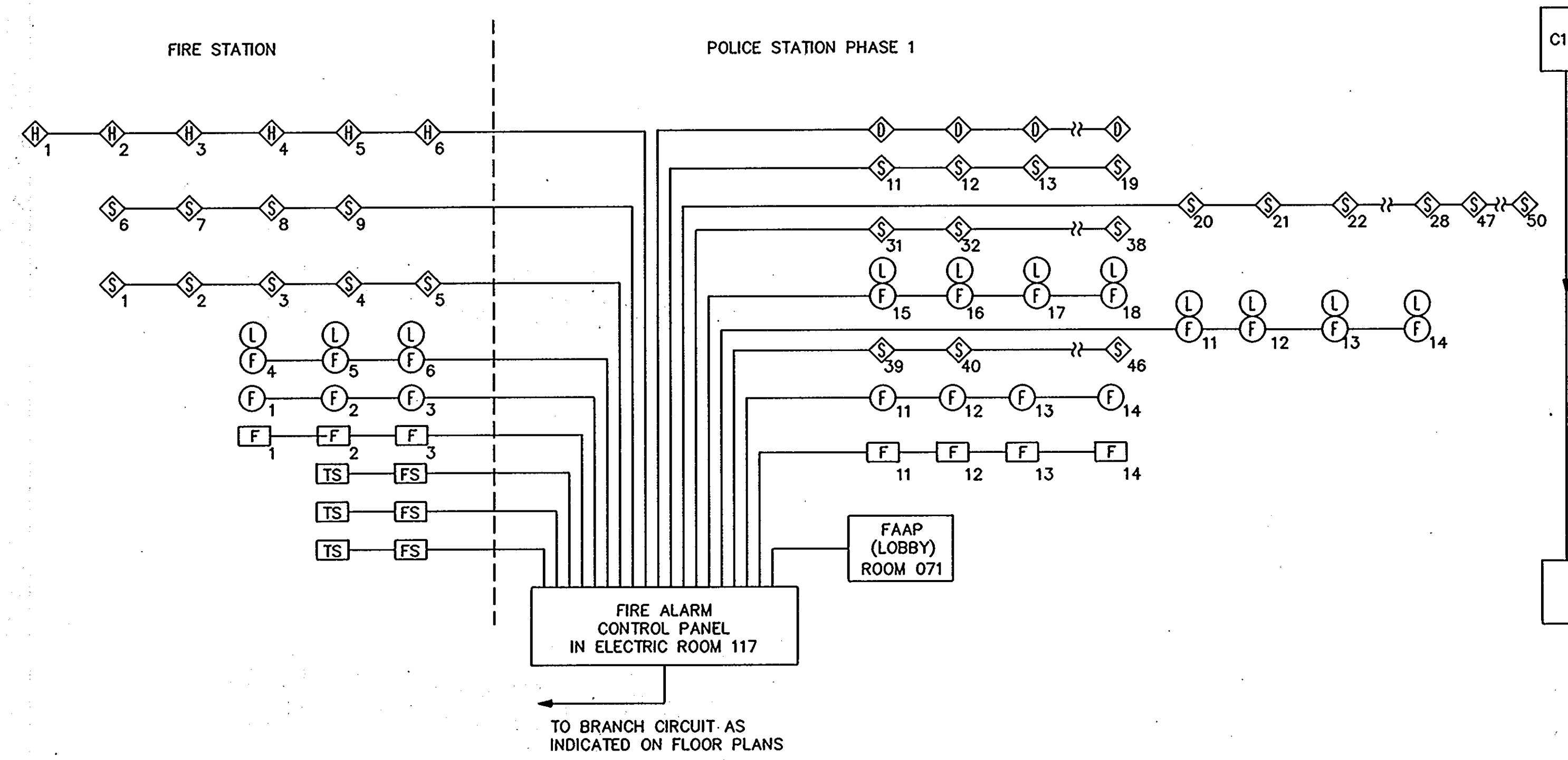
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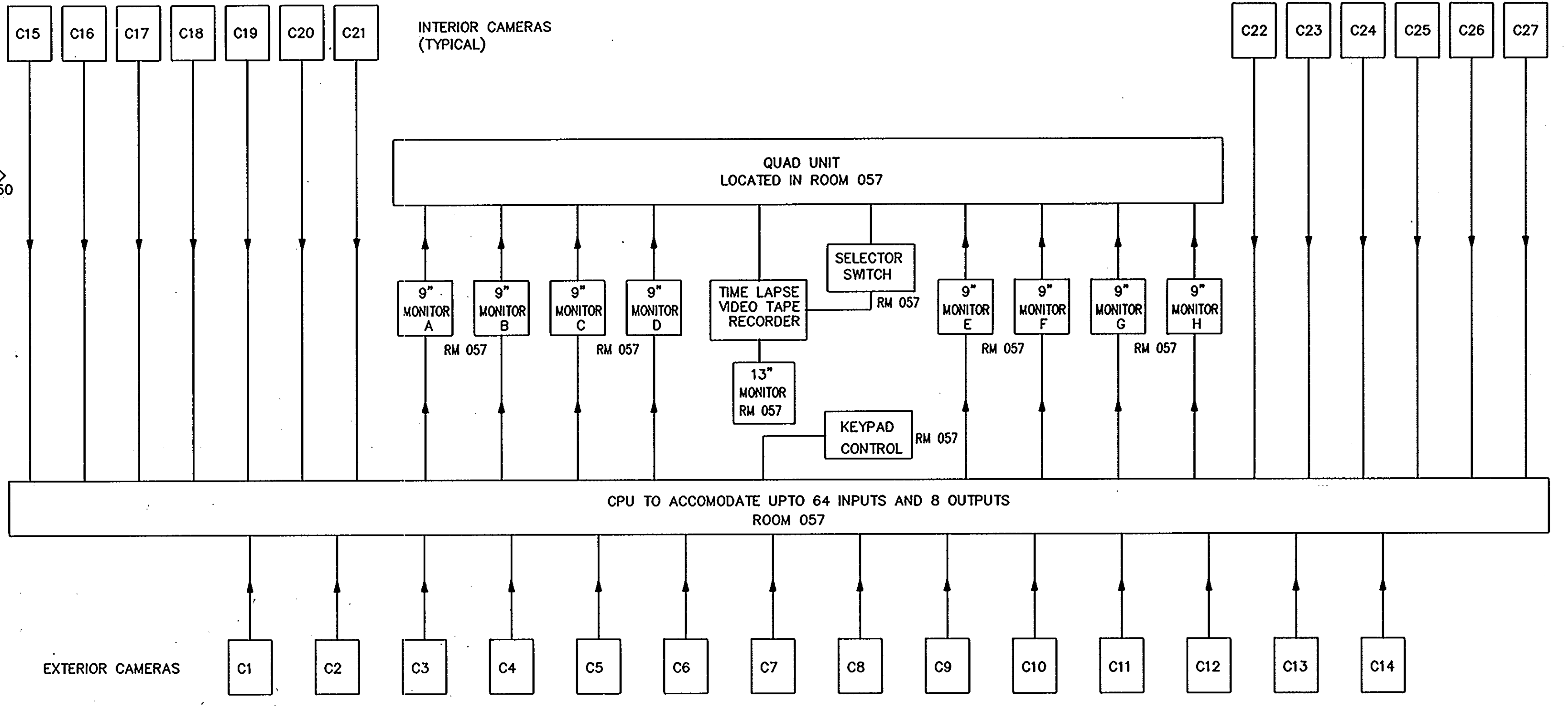
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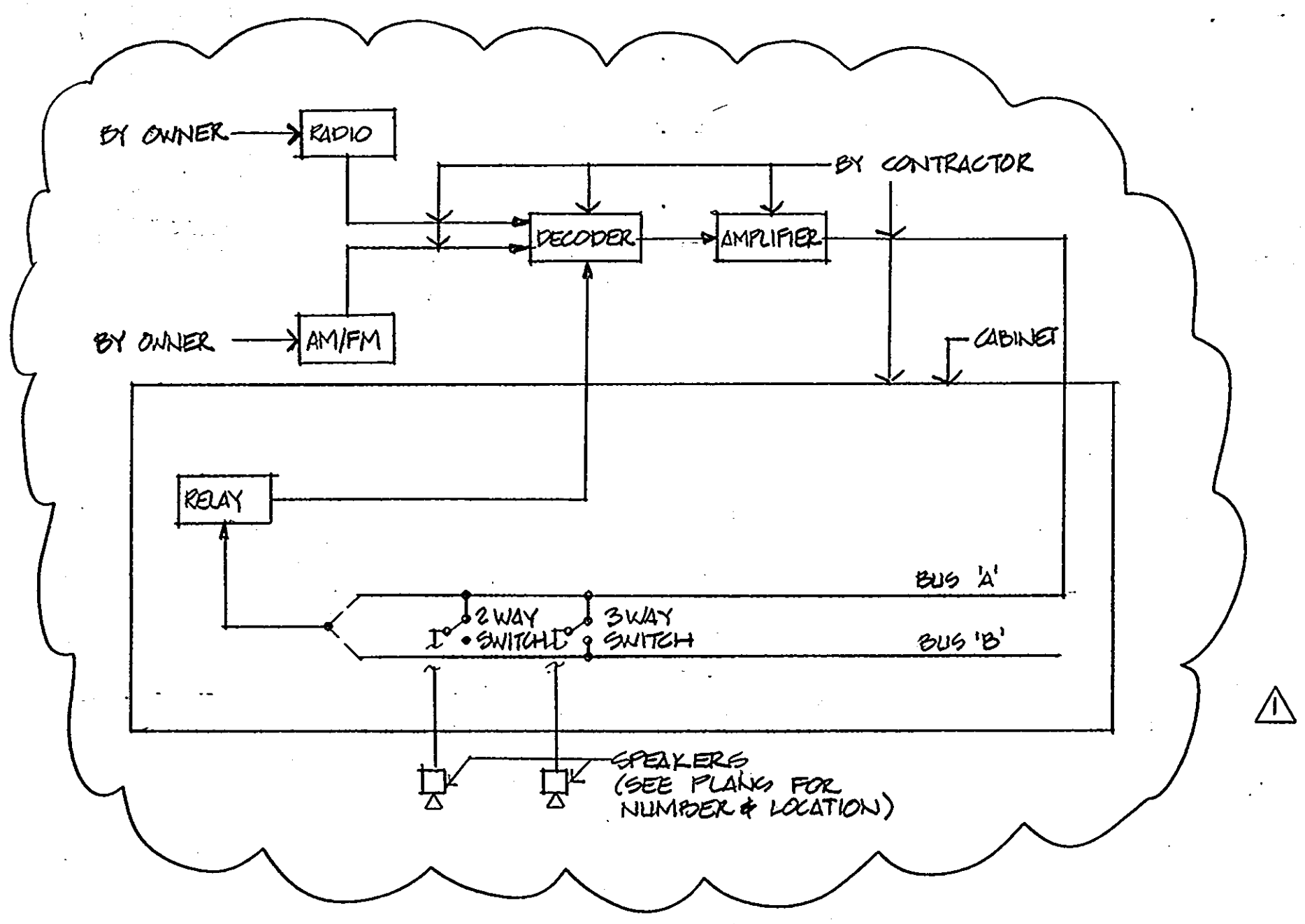
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CHANGE BULLETIN - 4	
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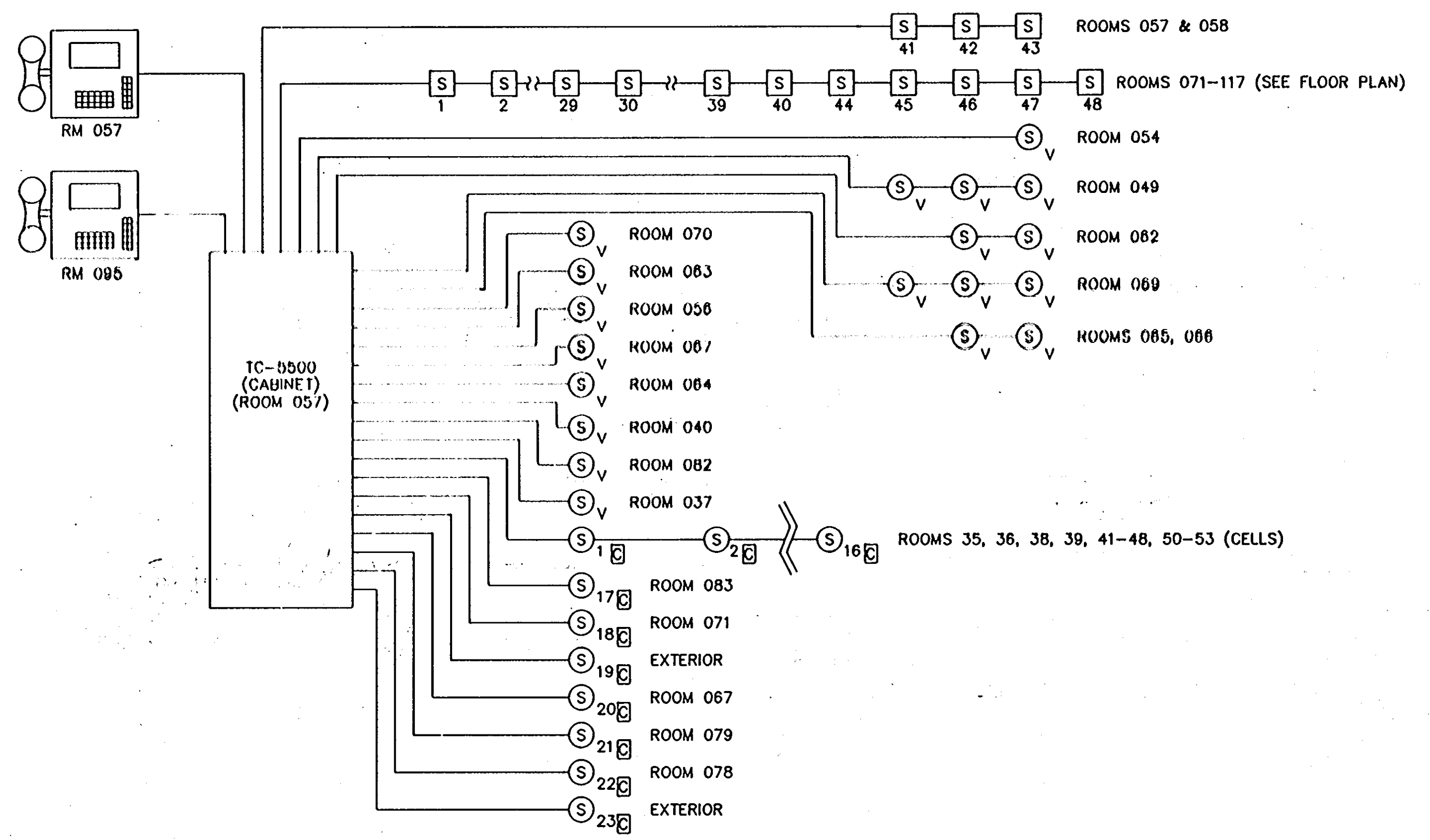
ONE LINE DIAGRAM - FIRE DETECTION AND ALARM SYSTEM
NOT TO SCALE



BLOCK DIAGRAM - CCTV SYSTEM
NOT TO SCALE



ONE LINE DIAGRAM - INTERCOM AND PAGING (FIRE STATION)
NOT TO SCALE



ONE LINE DIAGRAM - PAGING SYSTEM POLICE STATION
NOT TO SCALE

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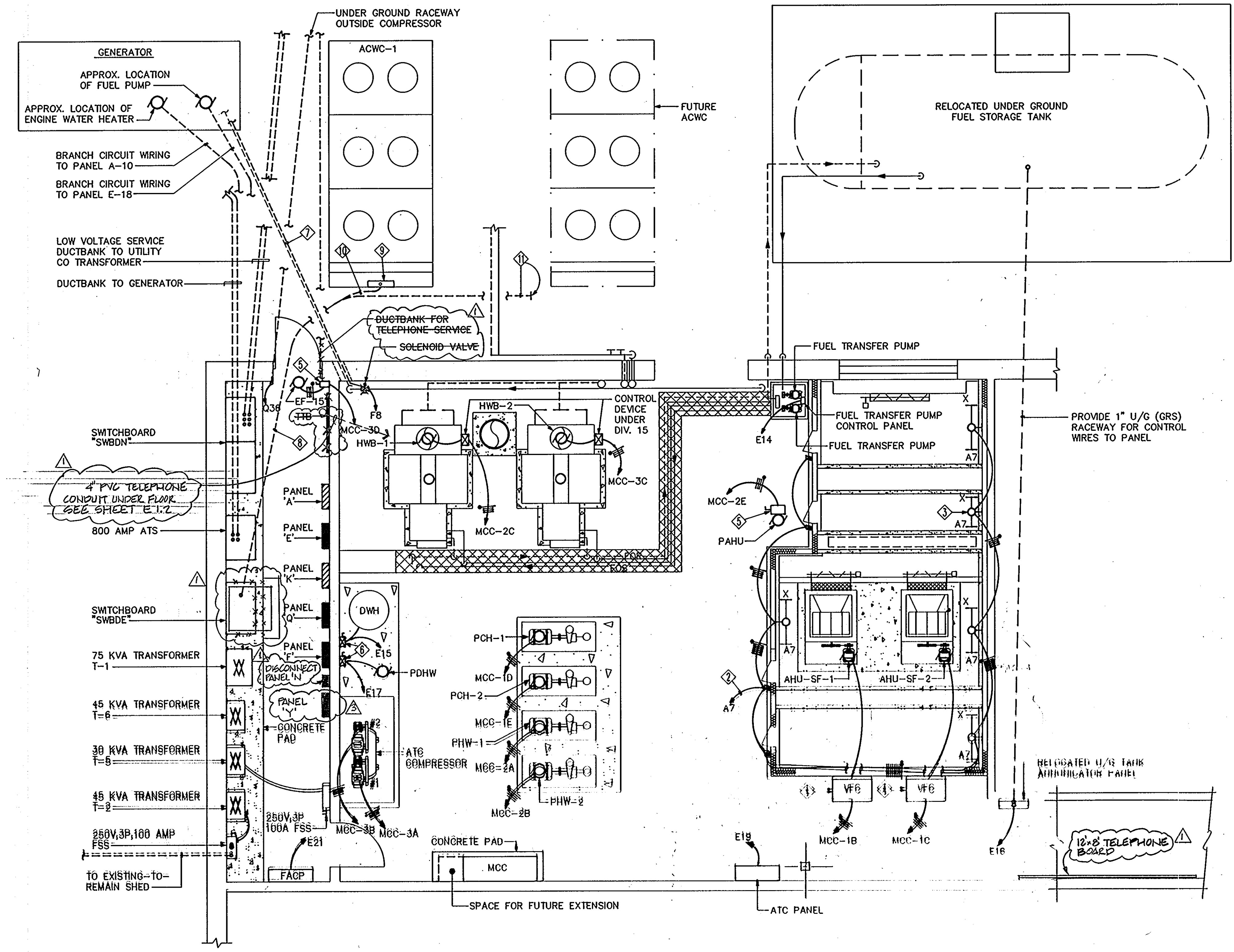
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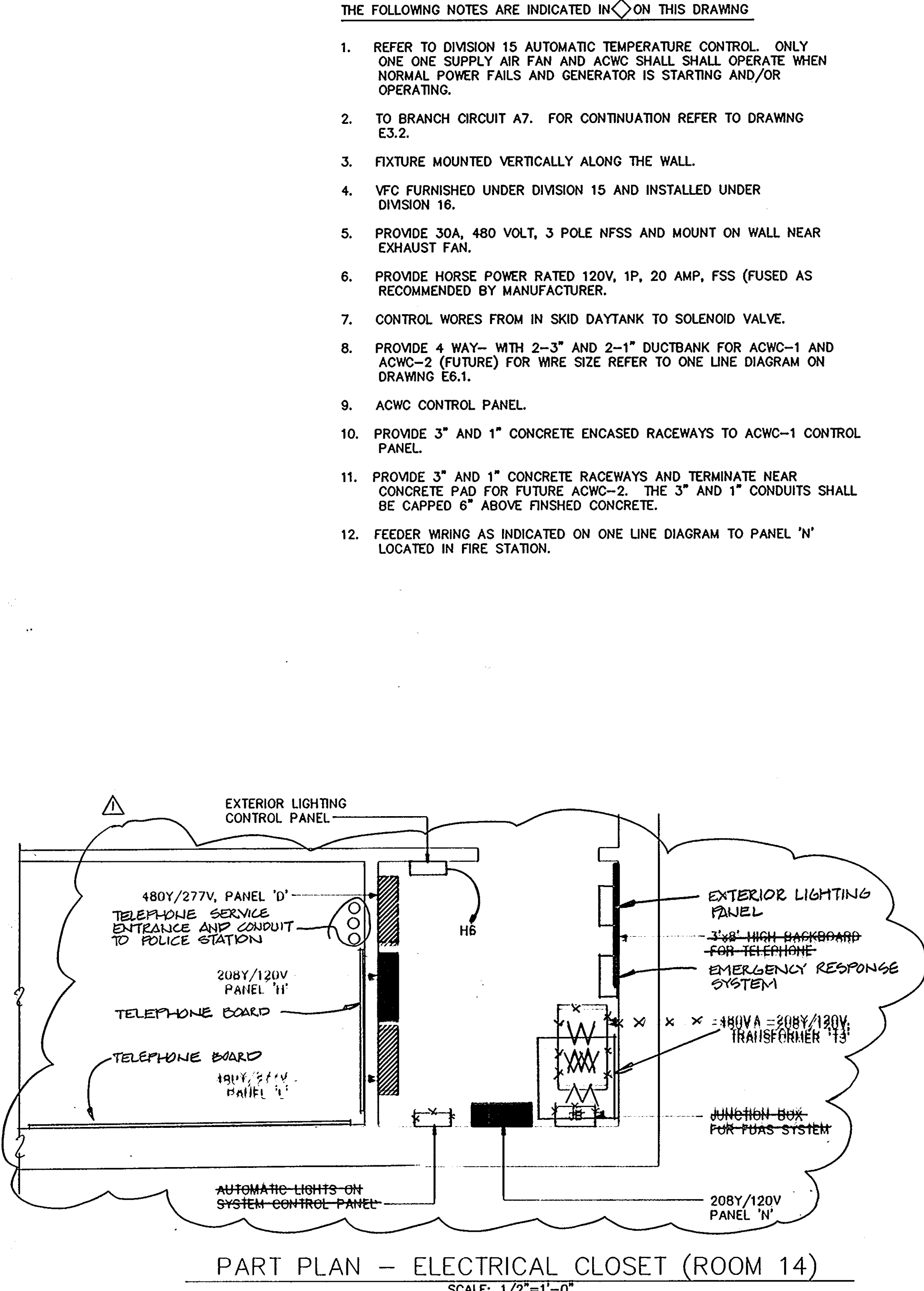
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ONE LINE FDAS, PAGING AND CCTV SYSTEMS	83 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92
	DRAWING NO. E6.2



PART PLAN MECHANICAL AND ELECTRICAL ROOM
SCALE: 1/4"=1'-0"



PART PLAN - ELECTRICAL CLOSET (ROOM 14)
SCALE: 1/2"=1'-0"

- THE FOLLOWING NOTES ARE INDICATED IN \diamond ON THIS DRAWING
- REFER TO DIVISION 15 AUTOMATIC TEMPERATURE CONTROL. ONLY ONE ONE SUPPLY AIR FAN AND ACWC SHALL OPERATE WHEN NORMAL POWER FAILS AND GENERATOR IS STARTING AND/OR OPERATING.
 - TO BRANCH CIRCUIT A7. FOR CONTINUATION REFER TO DRAWING E3.2.
 - FIXTURE MOUNTED VERTICALLY ALONG THE WALL.
 - VFC FURNISHED UNDER DIVISION 15 AND INSTALLED UNDER DIVISION 16.
 - PROVIDE 30A, 480 VOLT, 3 POLE NFSS AND MOUNT ON WALL NEAR EXHAUST FAN.
 - PROVIDE HORSE POWER RATED 120V, 1P, 20 AMP, FSS (FUSED AS RECOMMENDED BY MANUFACTURER).
 - CONTROL WORES FROM IN SKID DAYTANK TO SOLENOID VALVE.
 - PROVIDE 4 WAY- WITH 2-3" AND 2-1" DUCTBANK FOR ACWC-1 AND ACWC-2 (FUTURE) FOR WIRE SIZE REFER TO ONE LINE DIAGRAM ON DRAWING E6.1.
 - ACWC CONTROL PANEL.
 - PROVIDE 3" AND 1" CONCRETE ENCASED RACEWAYS TO ACWC-1 CONTROL PANEL.
 - PROVIDE 3" AND 1" CONCRETE RACEWAYS AND TERMINATE NEAR CONCRETE PAD FOR FUTURE ACWC-2. THE 3" AND 1" CONDUITS SHALL BE CAPPED 6" ABOVE FINISHED CONCRETE.
 - FEEDEE WIRING AS INDICATED ON ONE LINE DIAGRAM TO PANEL 'N' LOCATED IN FIRE STATION.

1650

ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia, MD 21045 (301)995-4067

IN ASSOCIATION WITH :

CIVIL & GEOTECH ENGINEER:	E B A ENGINEERING, INC.
STRUCTURAL ENGINEER:	QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING

SEAL:
[Signature]

REVISIONS	
CHANGE BULLETIN - 3	
AS BUILT	11/21/94

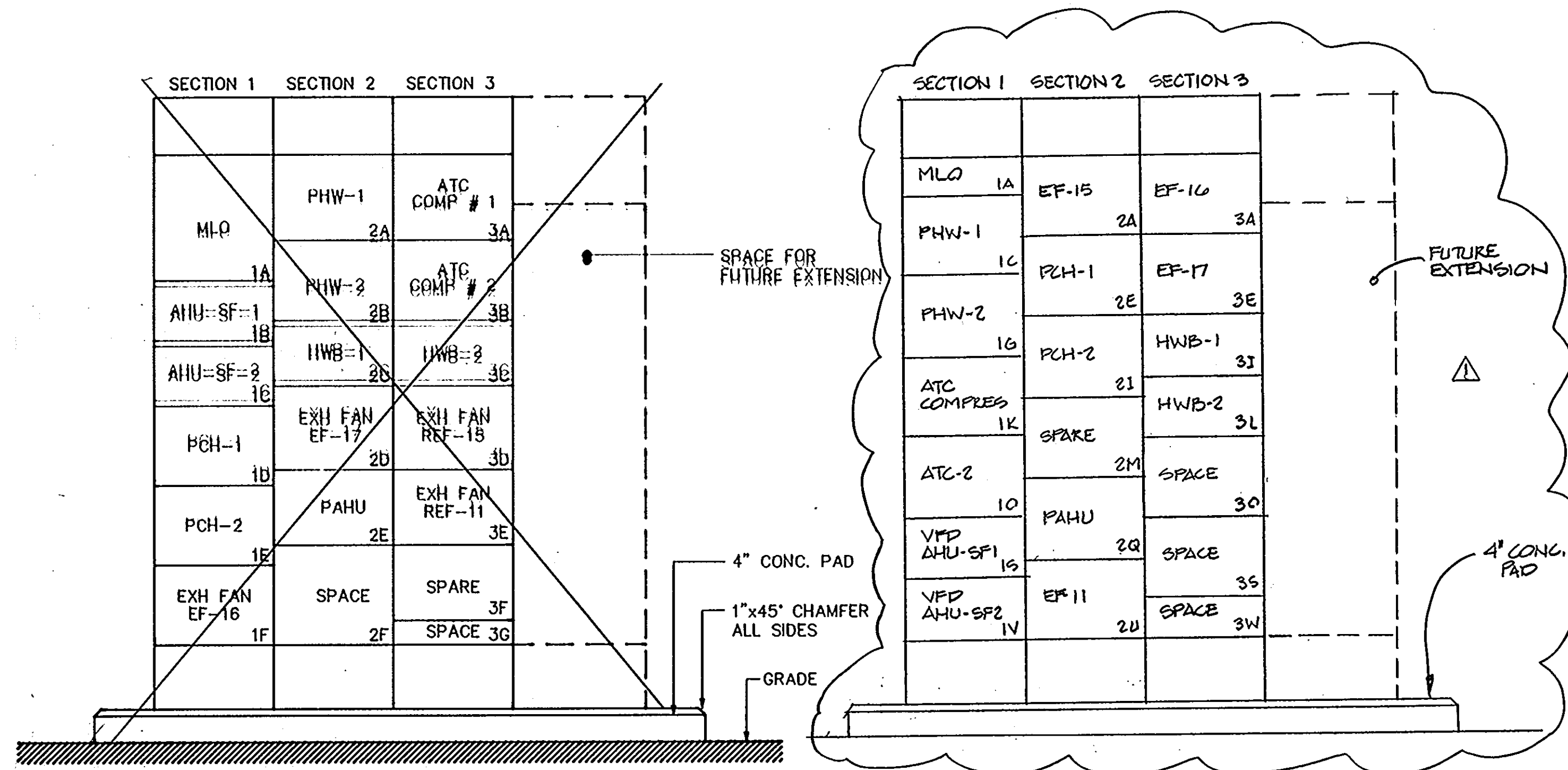
PART PLANS		84 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707		DATE: 3/25/92 DRAWING NO. E7.1

MOTOR CONTROL CENTER: MCC		HORIZONTAL BUS: 400 AMP		VERTICAL BUS: 300 AMP										
MAIN O.C. DEVICE OR MLO: MLO		VOLTS: 480		PHASE (S): 3										
LOCATION: MECHANICAL ROOM		ENCL. NEMA: 1		NODE #: -										
		NOTES: EMERGENCY POWER												
CIRCUIT NO.	SERVES	LOAD			PROTECTION			MOTOR STARTER			CIRCUIT			REMARKS
		HP	FLA	P	SIZE	DEVICE	TYPE	NEMA	CONTROL	WIRE	GRD	C		
1A	MAIN LUGS ONLY	-	-	-	-	-	-	-	-	-	-	-	REFER TO ONE LINE DIAGRAM	
1G-4B	AHU-SF-1	25	34	3	70	CB	-	-	-	3#6	1#8	1"	VFD UNDER DIVISION 15	
1V-4C	AHU-SF-2	25	34	3	70	CB	-	-	-	3#6	1#8	1"	VFD UNDER DIVISION 15	
2E-4A	PCH-1	3	4.8	3	15	CB	FVNR	1	0000	3#12	1#12	3/4"		
2I-4E	PCH-2	3	4.8	3	15	CB	FVNR	1	0000	3#12	1#12	3/4"	STANDBY	
3A-1F	EXH FAN EF-16	2	3.3	3	15	CB	FVNR	1	0000	3#10	1#10	3/4"		
1C-2A	PHW-1	7.5	11	3	20	CB	FVNR	1	0000	3#12	1#12	3/4"		
1G-2B	PHW-2	7.5	11	3	20	CB	FVNR	1	0000	3#12	1#12	3/4"	STANDBY	
3I-2E	HWB-1	0.75	1.4	3	15	CB	-	-	-	3#12	1#12	3/4"		
3E-2D	EXH FAN EF-17	2	3.3	3	15	CB	FVNR	1	0000	3#10	1#10	3/4"		
2Q-2E	PAHU	0.75	1.4	3	15	CB	FVNR	1	0000	3#12	1#12	3/4"		
2F	SPACE	-	-	-	-	-	-	-	-	-	-	-		
1K-3A	ATC COMPRESSOR # 1	7.5	11	3	20	CB	FVNR	1	0000	3#12	1#12	3/4"		
1O-3B	ATC COMPRESSOR # 2	7.5	11	3	20	CB	FVNR	1	0000	3#12	1#12	3/4"		
3L-3E	HWB-2	0.75	1.4	3	15	CB	-	-	-	3#12	1#12	3/4"		
2A-3D	EXHAUST FAN EF-15	1	1.8	3	15	CB	FVNR	1	0000	3#12	1#12	3/4"		
2U-3E	EXHAUST FAN REF-11	0.75	1.4	3	15	CB	FVNR	1	0000	3#12	1#12	3/4"		
3F	SPARE	-	-	-	-	-	-	-	-	-	-	-		
3G	SPACE	-	-	-	-	-	-	-	-	-	-	-		

- ① CONTROL TRANSFORMER
 - ② HAND-OFF-AUTOMATIC SWITCH
 - ③ AUXILIARY CONTACTS
 - ④ INDICATING LIGHTS (GREEN, RED, AMBER)
- NOTE:
① REFER TO DIVISION 15 CONTROLS. ONLY AHU-SF AND ONE ACWC SHALL RUN. IN CASE NORMAL POWER FAILS EMERGENCY GENERATOR IS ONE STARTING.

SYMBOL	FIXT TYPE	MANUFACTURER	CATALOG #	LAMPS		VOLTS	MOUNTING	LENSE TYPE	REMARKS	
				NO.	TYPE					
□	A	LITHONIA OR EQUAL	2SPG432A12.125277SSB	4	32T8/CW/RS	32	277	RECESSED	ACRYLIC	STATIC TROFFER
□	B	LITHONIA OR EQUAL	SPG232A12.125277ES	2	32T8/CW/RS	32	277	RECESSED	ACRYLIC	STATIC TROFFER
□	C	LITHONIA OR EQUAL	2SPG332A12.125277SSB	3	32T8/CW/RS	32	277	RECESSED	ACRYLIC	STATIC TROFFER
□	D	LITHONIA OR EQUAL	2SPG2U32A12.125277SSB	3	32T8/CW/RS	32	277	RECESSED	ACRYLIC	STATIC TROFFER
□	D1	LITHONIA OR EQUAL	2SPG2U32A12.125120SSB	3	32T8/CW/RS	32	120	RECESSED	ACRYLIC	STATIC TROFFER
□	E	LITHONIA OR EQUAL	2SPGA432A12.125277SSB	4	32T8/CW/RS	32	277	RECESSED	ACRYLIC	RETURN AIR TROFFER
□	F	LITHONIA OR EQUAL	2PM3GA33424277ES	3	F40T12/CW/RS	34	277	RECESSED	PARABOLIC	RETURN AIR PARABOLIC TROFFER & ENERGY EFFICIENT BALLAST. DOUBLE SWITCHING
□	G	LITHONIA OR EQUAL	2SPGA332A12.125277SSB	3	32T8/CW/RS	32	277	RECESSED	ACRYLIC	RETURN AIR TROFFER
□	H	LITHONIA OR EQUAL	2SPGA2U32A12.125277SSB	3	32T8/CW/RS	32	277	RECESSED	ACRYLIC	RETURN AIR TROFFER
□	J	LITHONIA OR EQUAL	WC232A277SSB	2	32T8/CW/RS	32	277	WALL	ACRYLIC	-
□	J1	LITHONIA OR EQUAL	WC232A120SSB	2	32T8/CW/RS	32	120	WALL	ACRYLIC	SUITABLE FOR DAMP LOCATION
○	K	LITHONIA OR EQUAL	RL2S WITH LP	1	A19 75 WATT	75	120	RECESSED	POLY CARBONATE	SHOWER LIGHT, SUITABLE FOR WET LOCATION
□	L	LITHONIA OR EQUAL	AF10232277SSB	2	32T8/CW/RS	32	277	PENDANT/SURFACE	-	INDUSTRIAL TYPE, 10% UPLIGHT
□	M	LITHONIA OR EQUAL	AF10332277SSB	3	32T8/CW/RS	32	277	PENDANT/SURFACE	-	INDUSTRIAL TYPE, 10% UPLIGHT
□	N	LITHONIA OR EQUAL	AW332A277SSB	3	32T8/CW/RS	32	277	SURFACE	ACRYLIC	WITH HIGH IMPACT PRISMATIC ACRYLIC
○	P	LITHONIA OR EQUAL	A6MB	1	A19 100 WATT	100	120	RECESSED	-	MICROGROOVED MATTE BLACK BAFFLE
○	P1	LITHONIA OR EQUAL	A6BC	1	A19 100 WATT	100	120	RECESSED	-	BLACK OPEN BAFFLE, FOR DRYWALL CEILING
□	Q	NORLITE EQUIPMENT CO. OR EQUAL	CWX-BS-430-X1-FNL-120	4	F30T12/CW/RS	30	120	WALL MOUNTED	POLY CARBONATE	FIXTURE WITH NIGHT LIGHT
□	T	LITHONIA OR EQUAL	F3400MFWC73TAR12-QRS	1	M400/C/U WITH 250W QUARTZ LAMP	400	277	RECESSED	IMPACT RESISTANT	HID FIXTURE WITH MH LAMP, EQUIPPED WITH HOT RESTRIKE LAMP, VANDAL PROOF
□	T1	LITHONIA OR EQUAL	F3250MFWC73TAR12-QRS	1	M250/C/U WITH 175W QUARTZ LAMP	250	277	RECESSED	IMPACT RESISTANT	HID FIXTURE WITH MH LAMP, EQUIPPED WITH HOT RESTRIKE LAMP, VANDAL PROOF
○	U	MCPHILBEN OR EQUAL	JR4845JB277V	1	MV 100 WATT, A-23	100	277	RECESSED	PRISMATIC	SUITABLE FOR EXTERIOR WET LOCATION
□	V	LITHONIA OR EQUAL	TWH250M277QRSCRDMB	1	M250U w/175W QUARTZ LAMP	175	277	WALL	TEMPERED	SUITABLE FOR EXTERIOR WET LOCATION WITH QUARTZ RESTRIKE LAMP, VANDAL PROOF
□	X	LITHONIA OR EQUAL	UN132120SSB	1	32T8/CW/RS	32	120	PENDANT/SURFACE	-	BARE STRIP, GENERAL PURPOSE
□	Y	LITHONIA OR EQUAL	KAS2400 MR (TYPE III OR IV) 277QRS-DMB	-	MH 400 WATT WITH 250W QUARTZ LAMP	400	277	POLE MTD	TEMPERED	POLE MTD, POLE 30' LONG, 5" SQUARE STRAIGHT NO. OF LUMINAIRES & DISTRIBUTION TYPE AS INDICATED ON DWG, WITH QUARTE RESTRIKE
○	Z	LITHONIA OR EQUAL	RCIA WITH LQ	2	PL LAMP	13	277	RECESSED	-	SUITABLE FOR GRID CEILING
○	Z1	LITHONIA OR EQUAL	RCIA WITH LQ	2	PL LAMP	13	277	RECESSED	-	SUITABLE FOR DRY WALL CEILING & DAMP LOCATION
□	AA	FAH SAFE OR EQUAL	FMR-D21-310277B3-ESB-FHIL-SFJ	4	32T8/CW/RS	32	277	RECESSED	-	VANDAL PROOF & UNBREAKABLE LENS
□	AB	FAH OR EQUAL	QUONIPSS277	1	70W HPS	70	277	DIRECT BURIAL	TEMPERED GLASS	SIGN LIGHT, VANDAL PROOF HOUSING AND GUARD
□	AC	SPH OR EQUAL	ELN250W3	1	250W MH EHB	250	277	WALL	-	WITH LAMP GUARD
□	AU	PASS AND SIGNIFICANT OR EQUAL	1A812 w/1 AMP SHARD	1	812 WALL A19	812	120	WALL	-	WITH LAMP GUARD
□	AE	LITHONIA OR EQUAL	VR410H121HRSFEW	1	100W HPS	100	120	SURFACE	POLY CARBONATE	WET LOCATION, WEATHER PROOF, VANDAL PROOF
□		LITHONIA OR EQUAL	F2EP(1 OR 2) R27YELN	2	FS11	-	277	UNIVERSAL	-	SIGNATURE SERIES, NUMBER OF FACES AS INDICATED, WITH BATTERY EMERGENCY PACK
□		LITHONIA OR EQUAL	8ELM2277	2	6S N0806	-	277	WALL	-	QUANTUM SERIES,

NOTE:
◇ INDIRECT LIGHTING. COLOR SHALL BE SELECTED BY ARCHITECT. PROVIDE INFORMATION ABOUT COLORS AVAILABLE, WITH SHP DRAWING. NO ADDITIONAL COST SHALL BE ALLOWED FOR COLOR SELECTION



ELEVATION-MOTOR CONTROL CENTER (MCC)
NOT TO SCALE

1650

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Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia, MD 21045 (301)995-4067

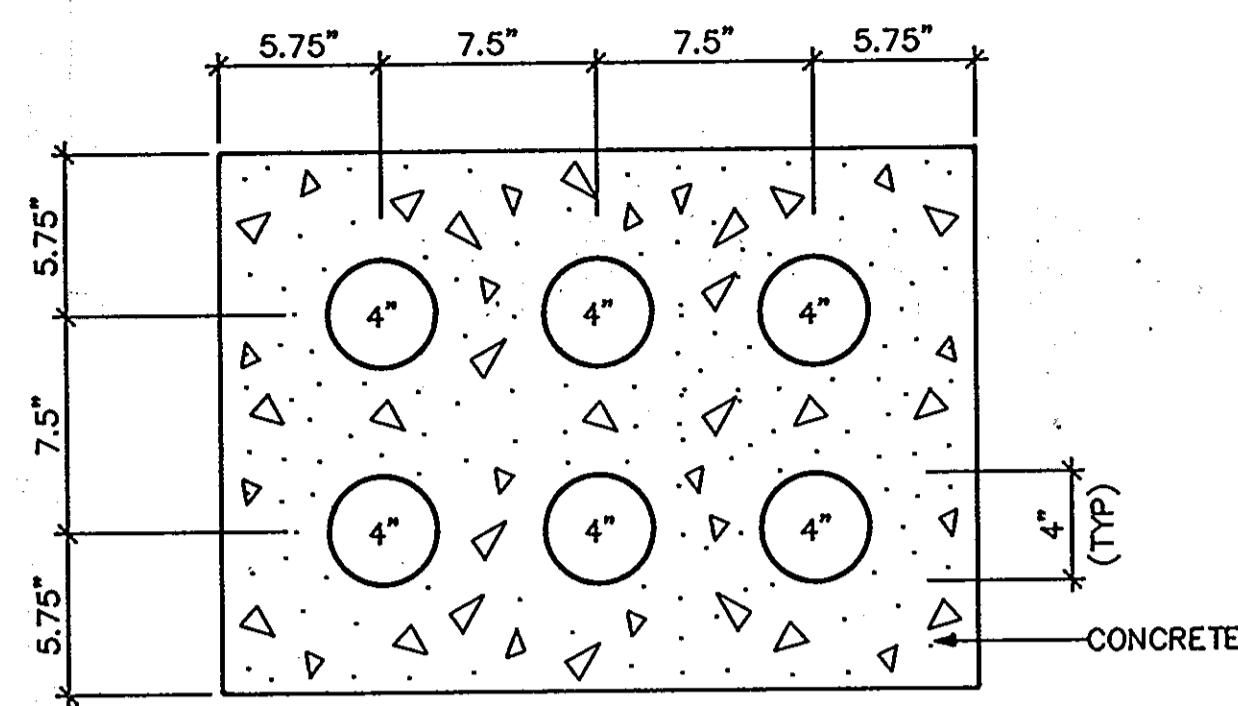
IN ASSOCIATION WITH :

CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING

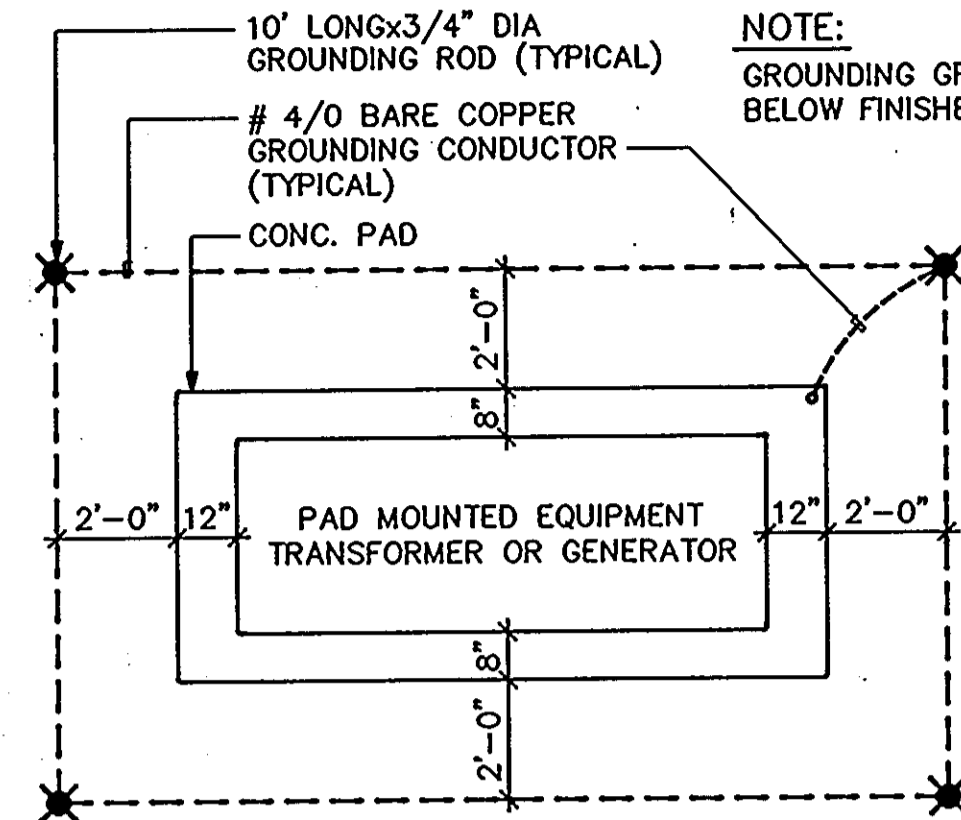
SEAL: *Pane...*

REVISIONS	
AS BUILT	11/21/94

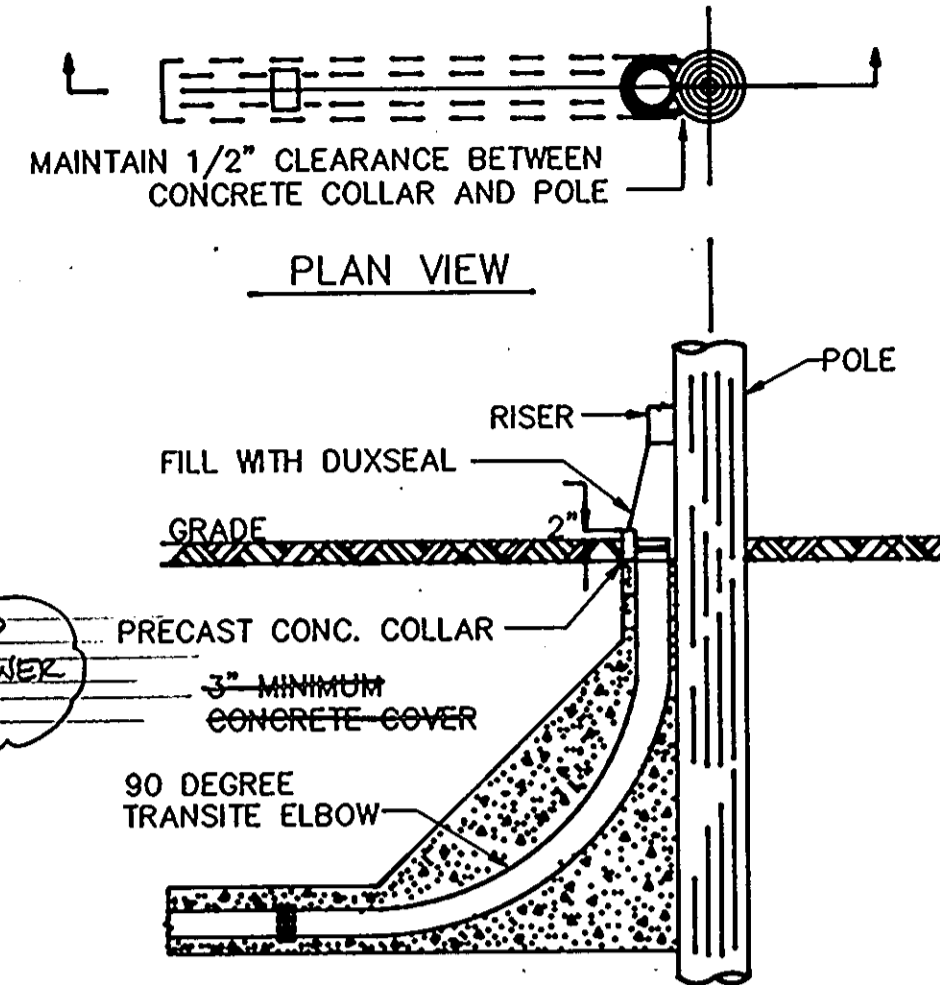
SCHEDULES LIGHTING FIXTURES AND MCC	85 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C-0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: DRAWING NO. E7.2



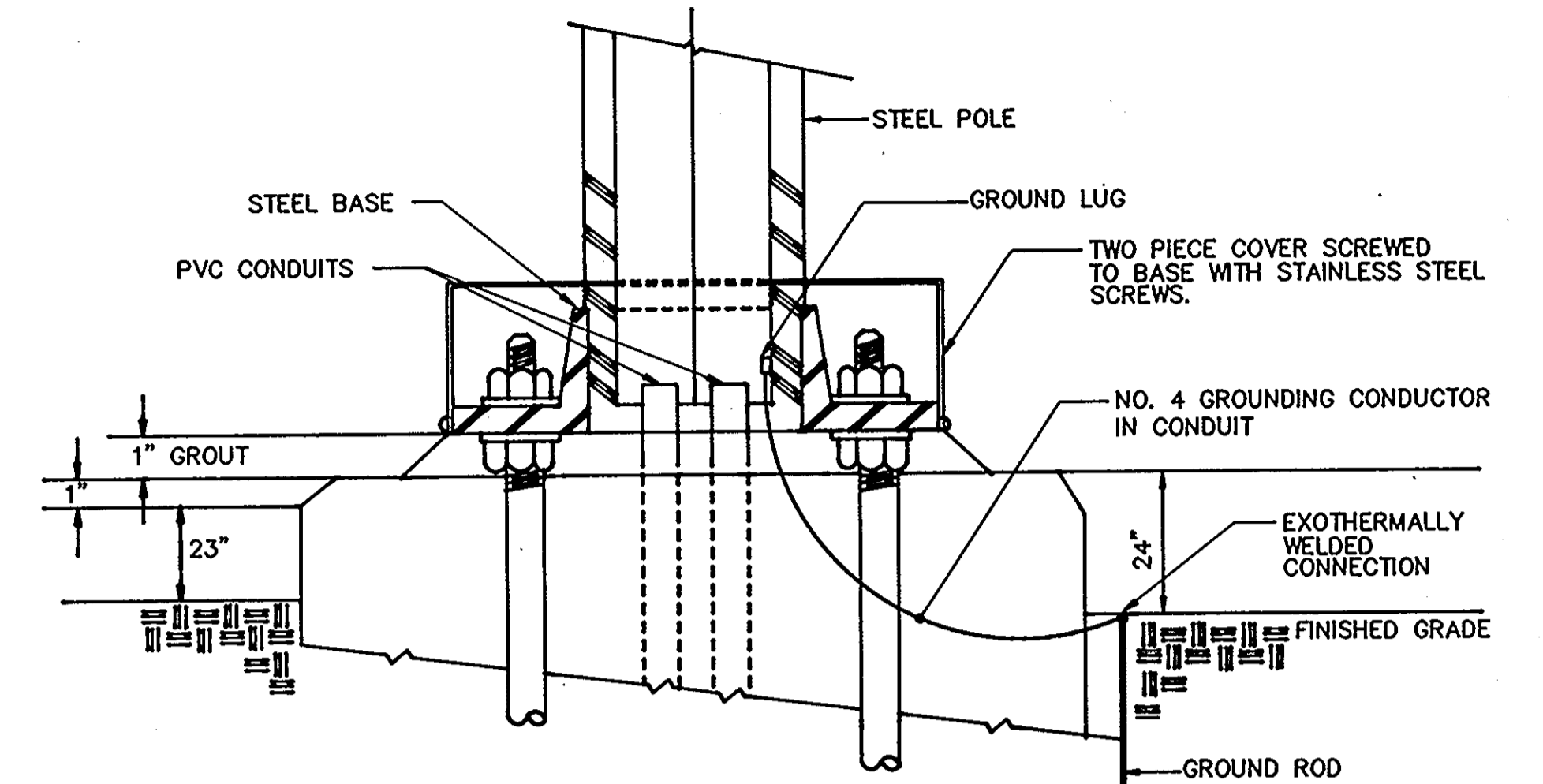
26.5" x 19.0"
SIX WAY - 4" DUCTBANK
NOT TO SCALE



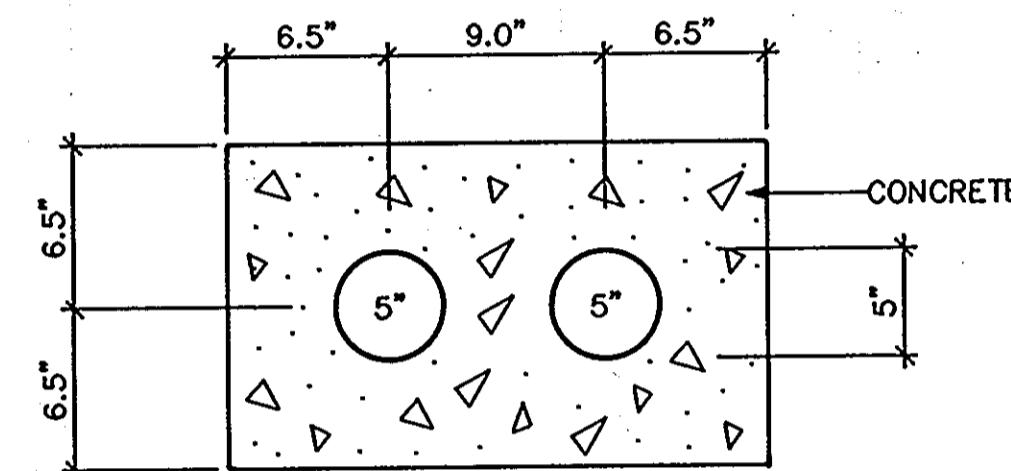
GROUNDING GRID FOR PAD MOUNTED EQUIPMENT
NOT TO SCALE



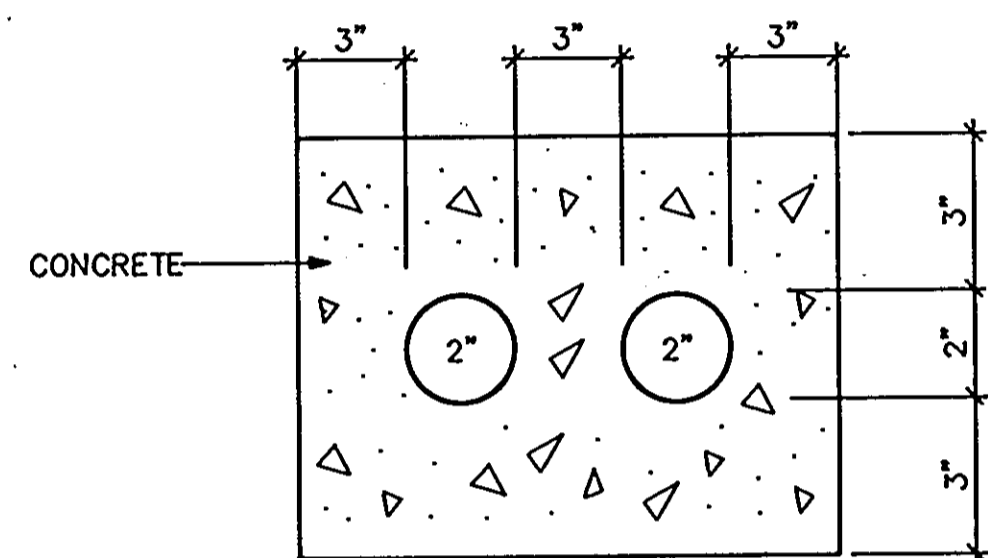
DETAIL - POLE RISER OVERHEAD TO UNDERGROUND CONSTRUCTION
NOT TO SCALE



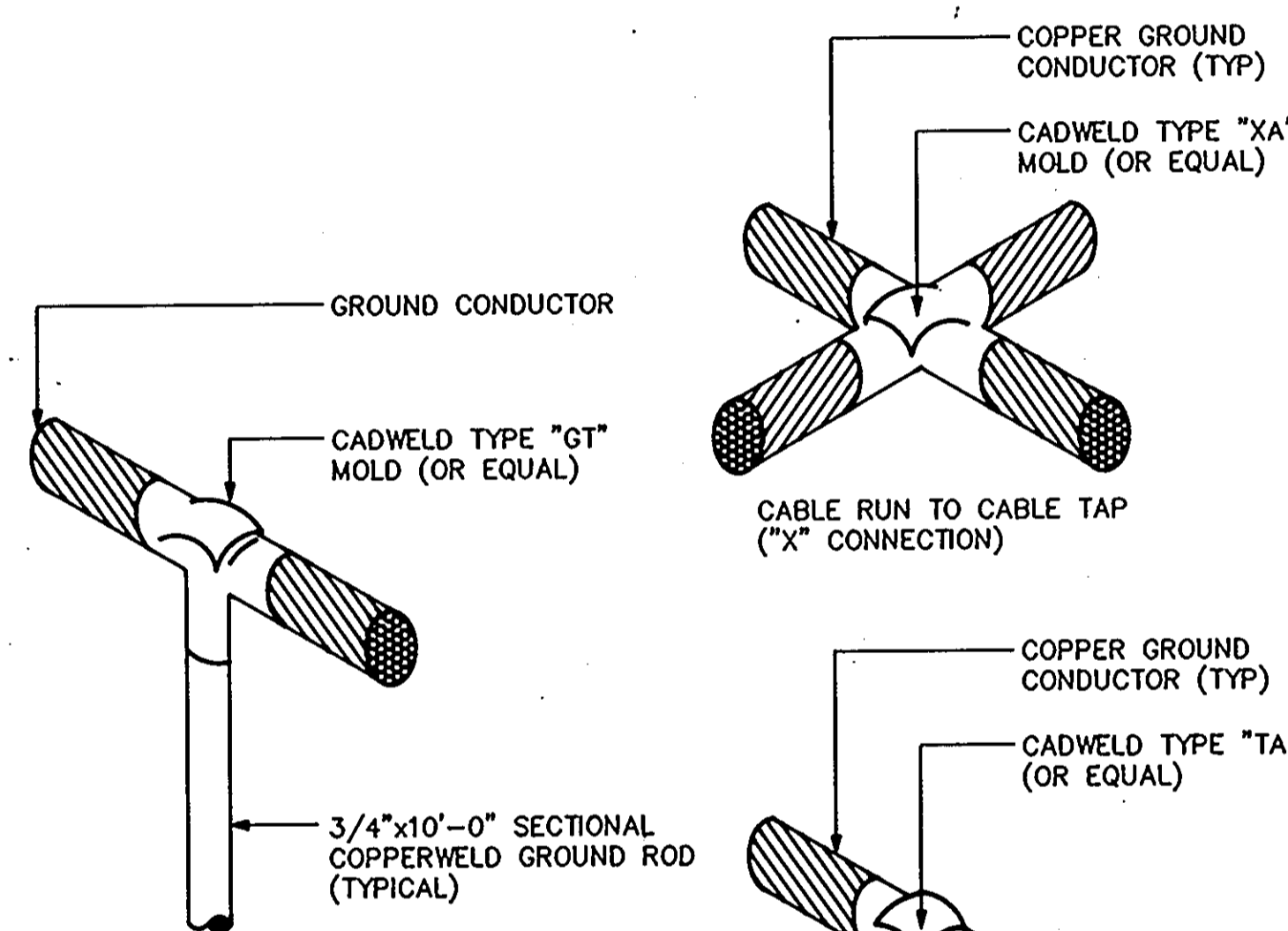
BASE DETAIL (LIGHTING STANDARD)
NOT TO SCALE



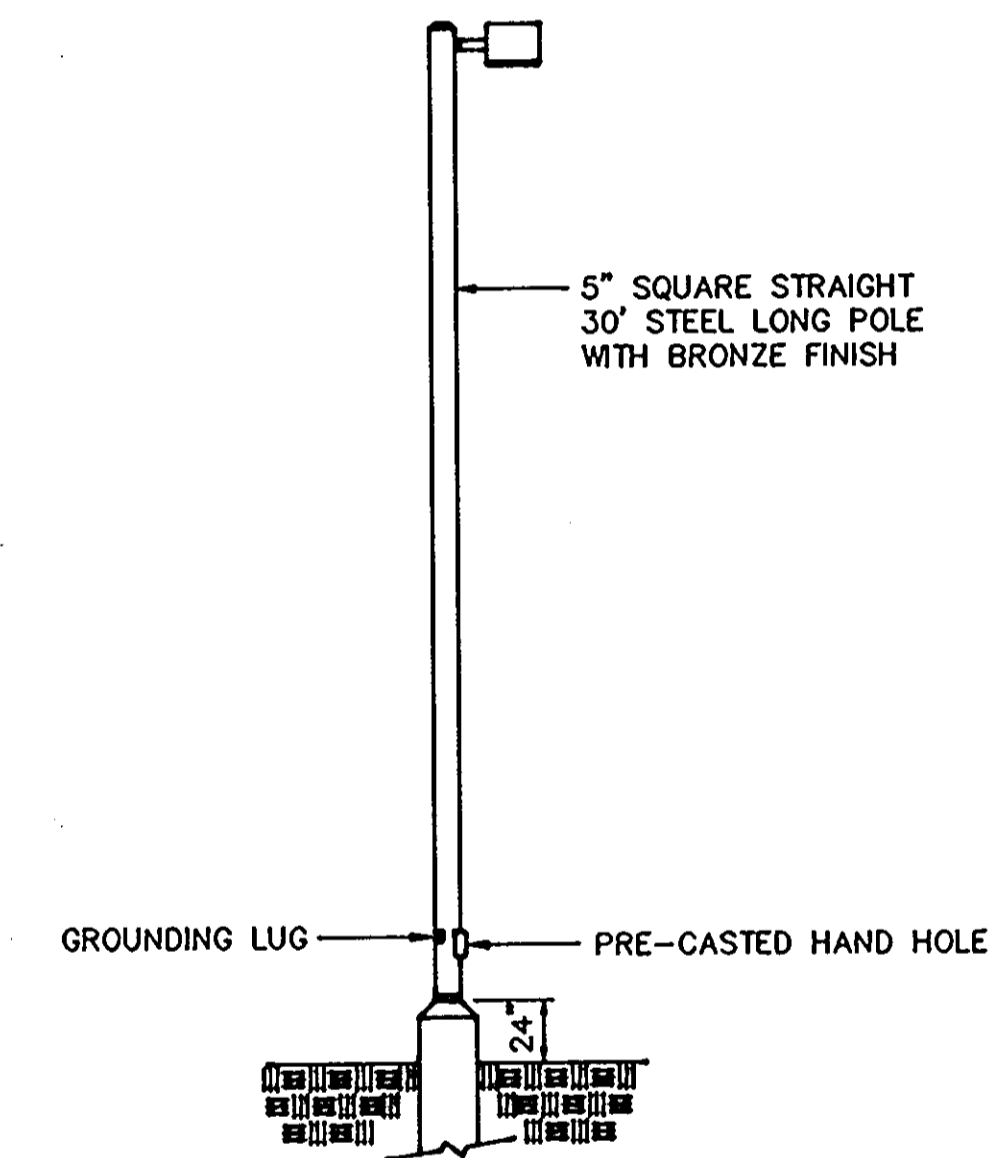
22.0" x 13.0"
TWO WAY - 5" DUCTBANK
NOT TO SCALE



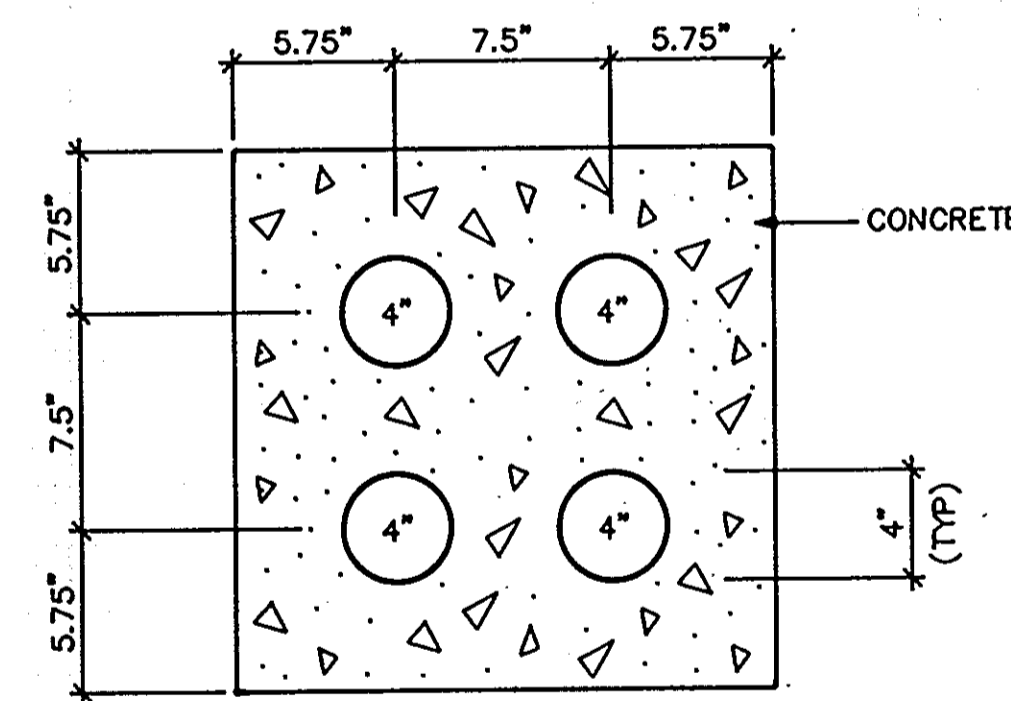
14.0" x 8.5"
TWO WAY - 2" DUCTBANK
NOT TO SCALE



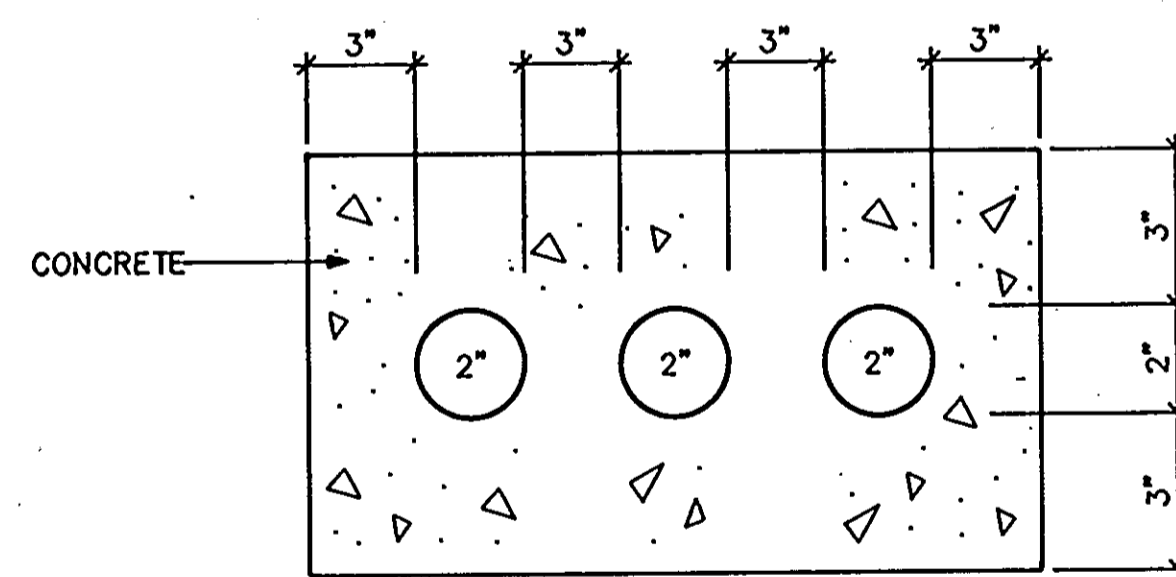
GROUND CONNECTION
NOT TO SCALE



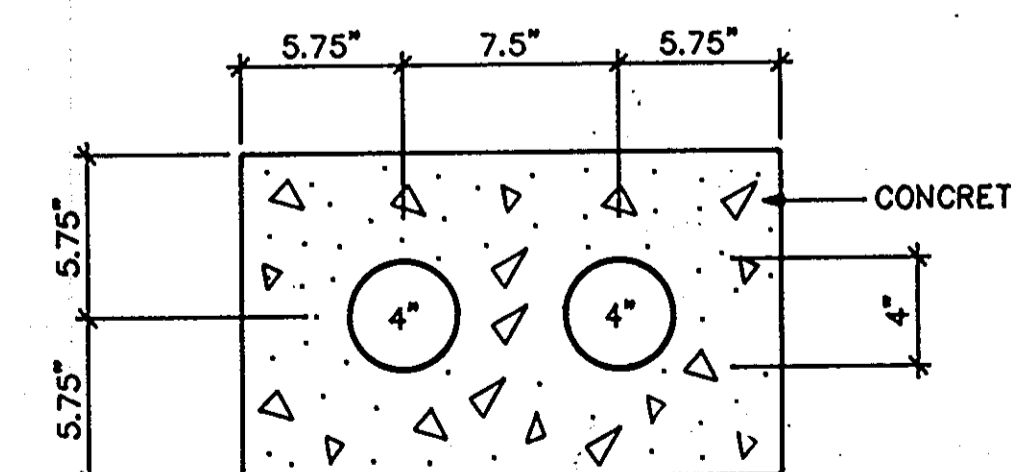
LIGHTING STANDARD
NOT TO SCALE



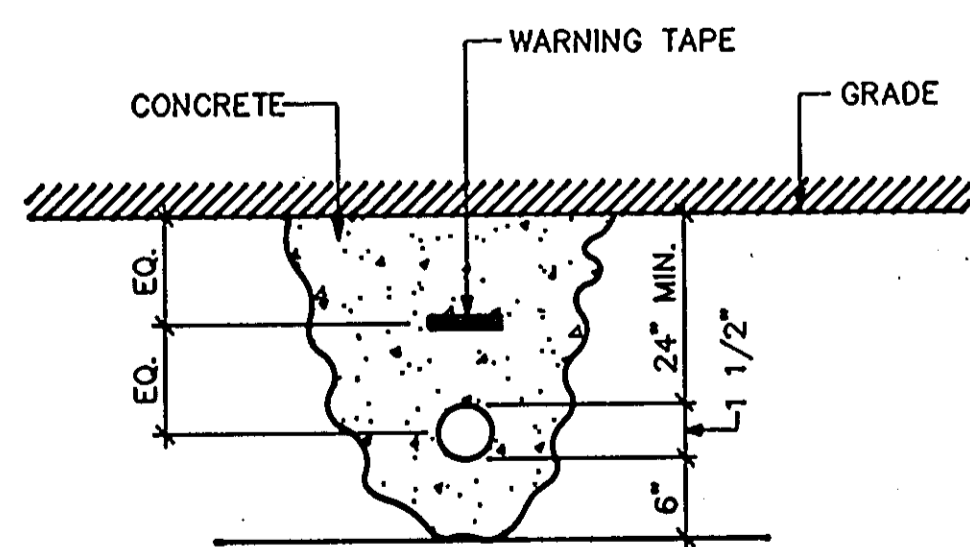
19.0" x 19.0"
FOUR WAY - 4" DUCTBANK
NOT TO SCALE



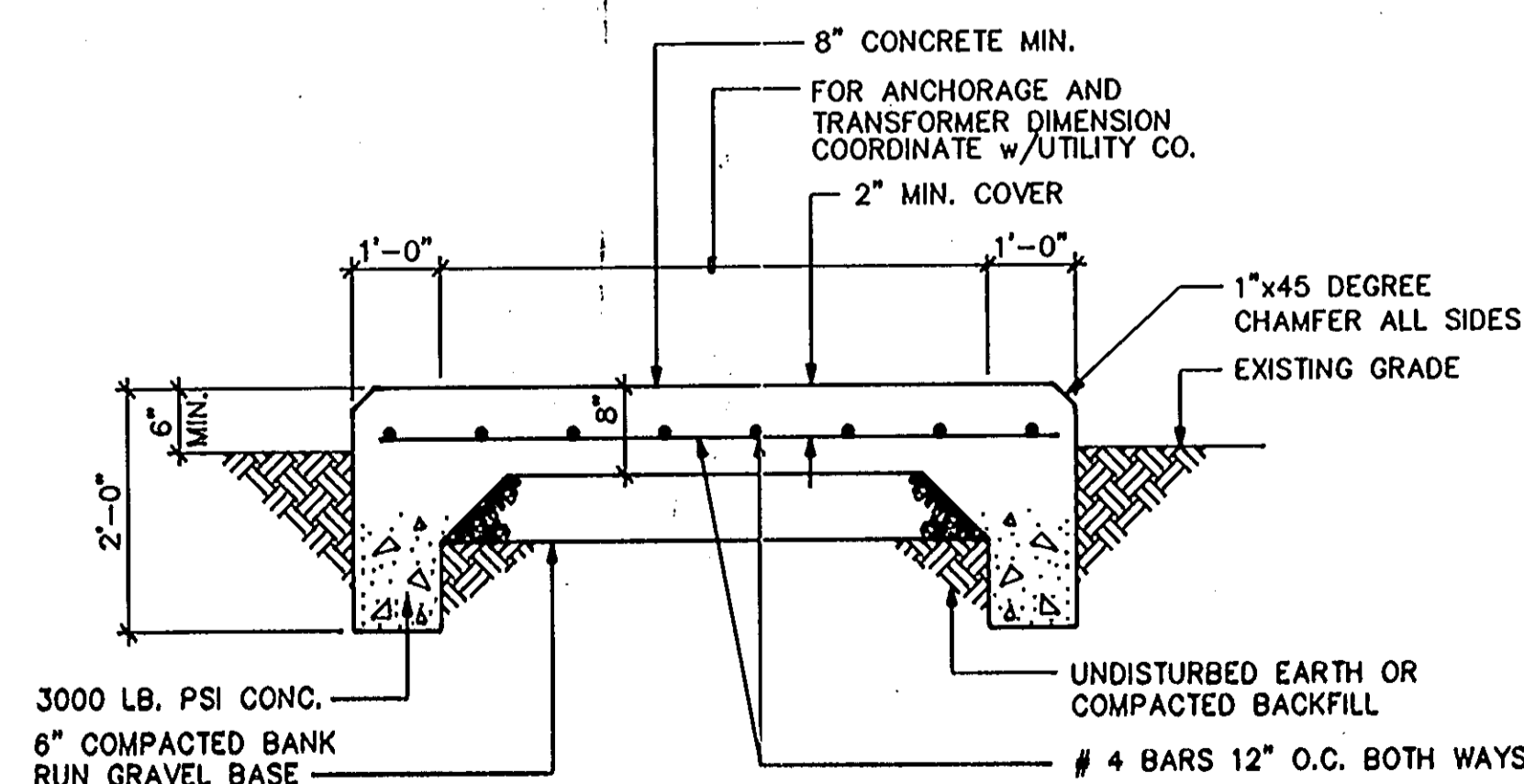
19.5" x 8.5"
THREE WAY - 2" DUCTBANK
NOT TO SCALE



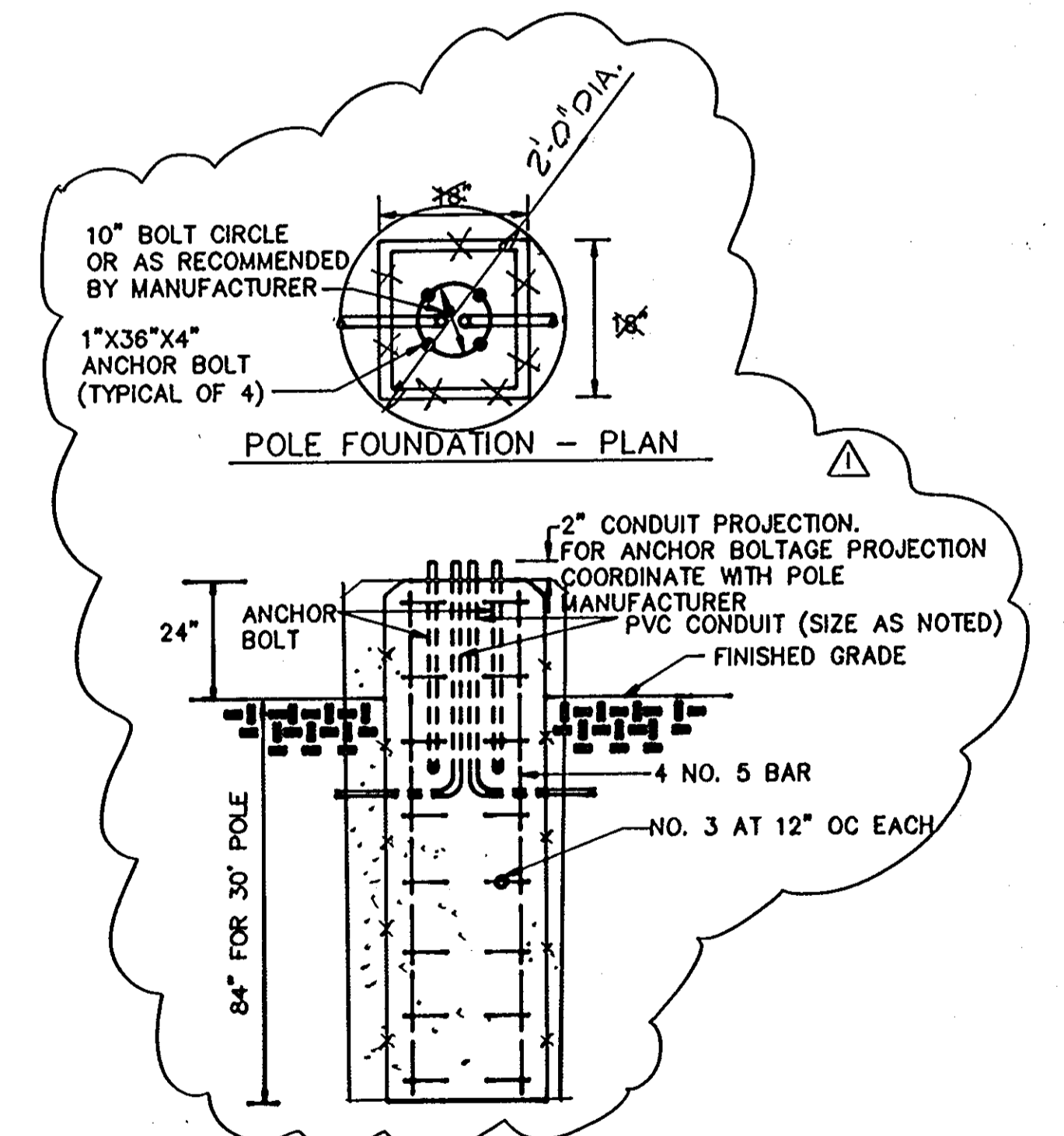
19.0" x 11.5"
TWO WAY - 4" DUCTBANK
NOT TO SCALE



DIRECT BURIED - 1 1/2" PVC FOR OUTSIDE LIGHTING
NOT TO SCALE



CONCRETE PAD DETAIL
NOT TO SCALE



POLE FOUNDATION - ELEVATION
NOT TO SCALE

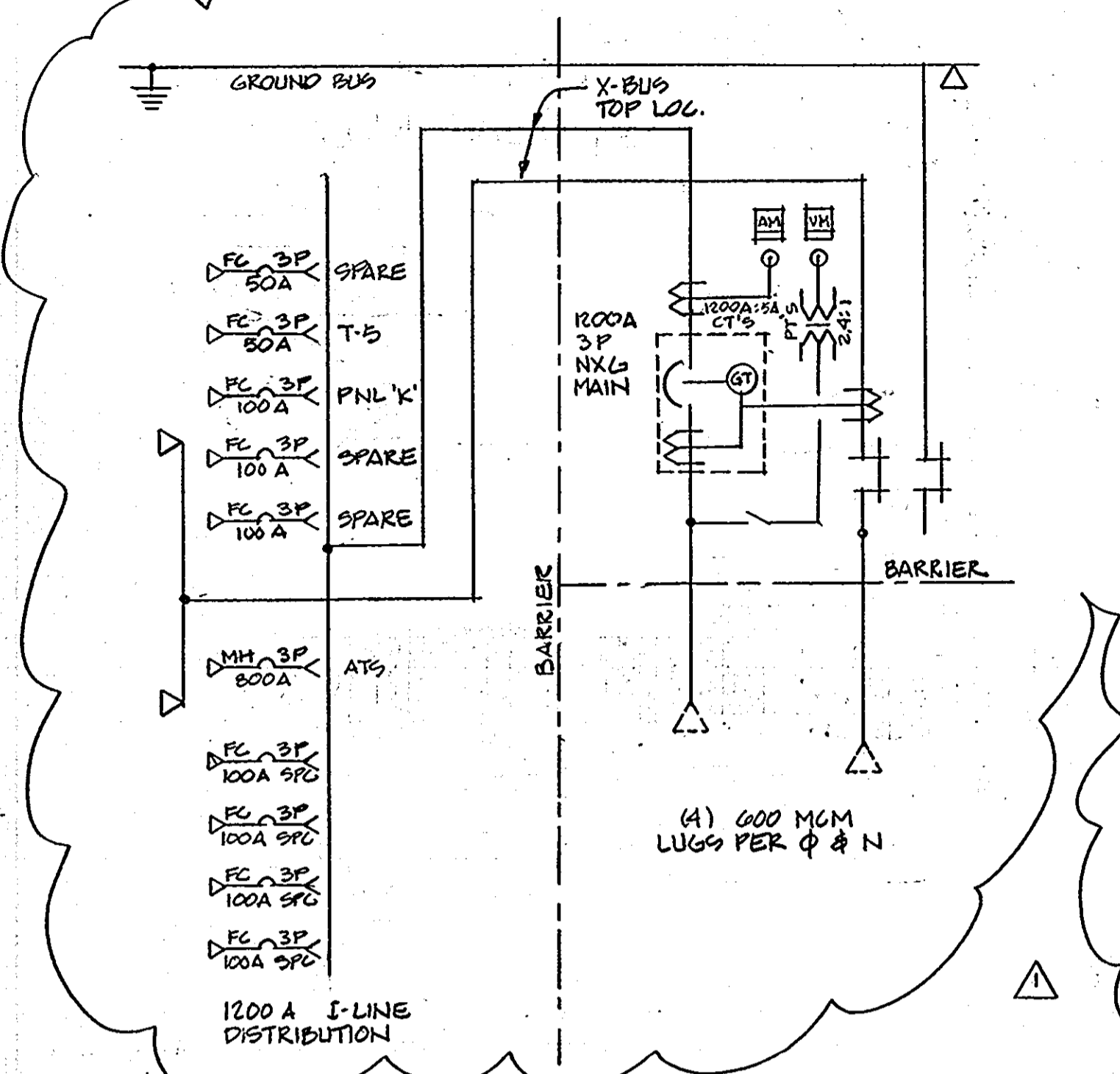
DETAILS	86 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX	CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707	DATE: 3/25/92 DRAWING NO. E.8.1

1650
ARCHITECTURAL TECHNOLOGIES, INC.
Architects and Construction Consultants
9192 Red Branch Road, Suite 300
Columbia, MD 21045 (301)995-4067

IN ASSOCIATION WITH:
CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER: STANTON ENGINEERING

SEAL:
Paul G. Goff

REVISIONS
AS BUILT 11/24/92

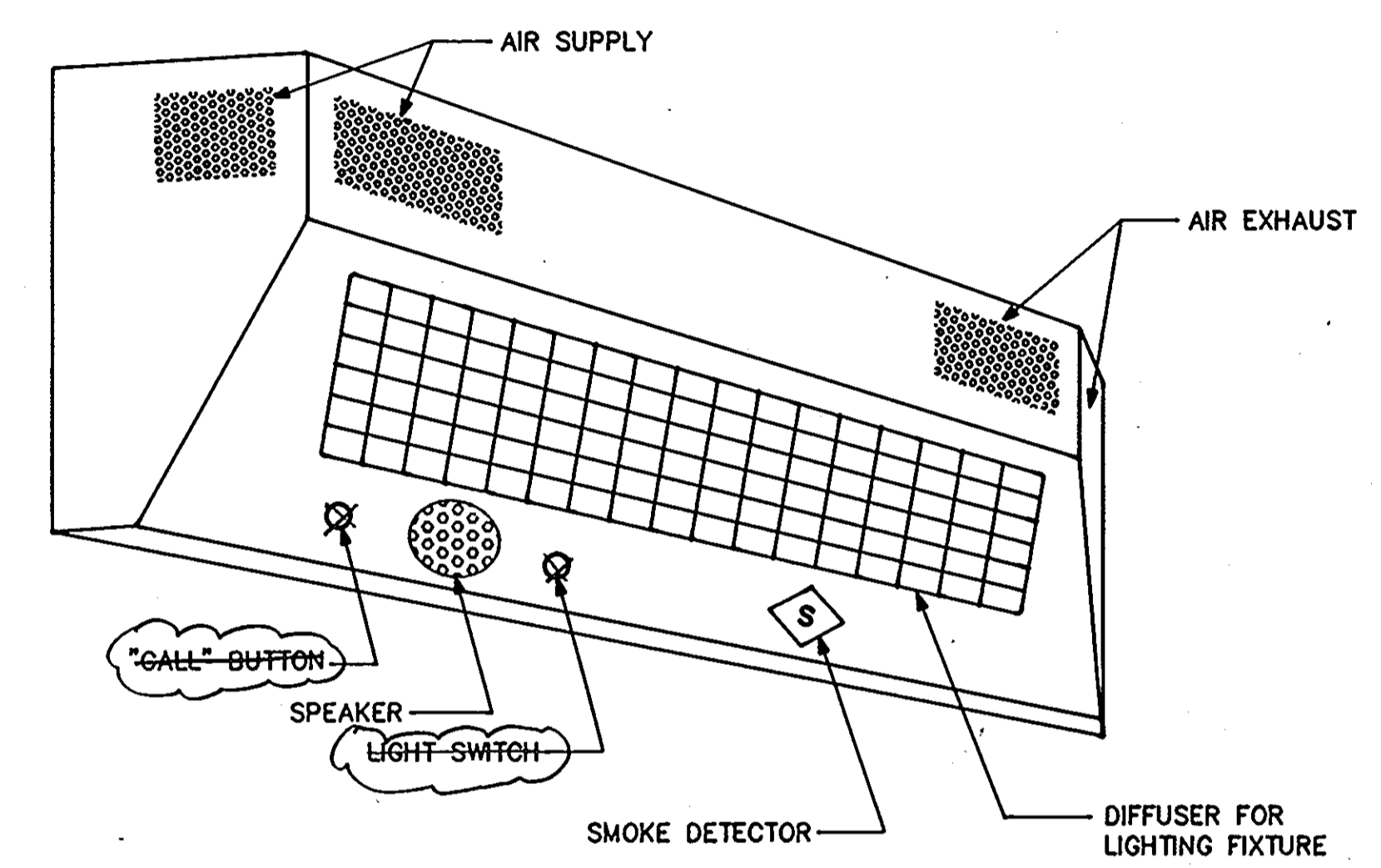


ELEVATION - SWBD 'N'
NOT TO SCALE

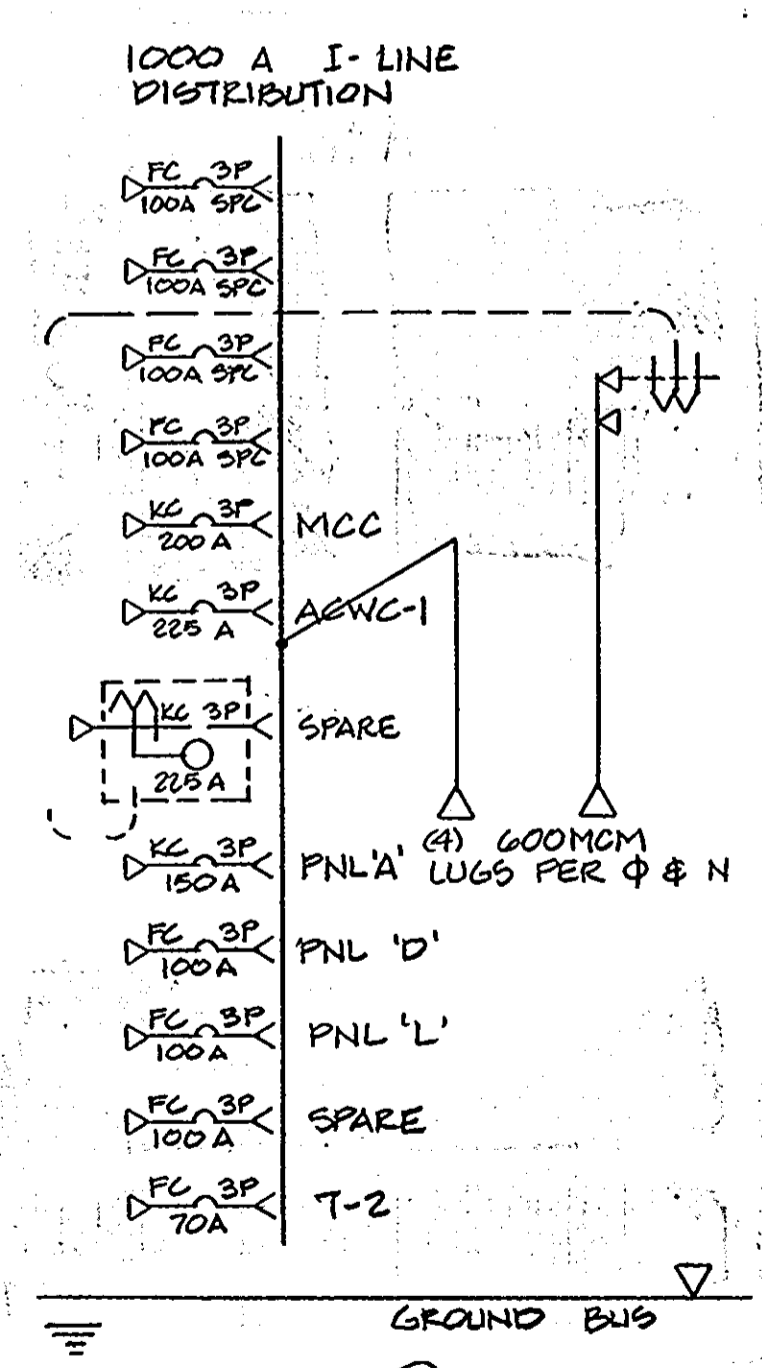
SWITCHBOARD: "SWBD 'N'" BUS RATING: 1200 AMPS. MAIN O.C. DEVICE OR MLO: MCB 1200 AMP
 MIN. AIC: 42,000 VOLTS: 480Y/277 PHASE(S): 3 WIRES: 4 + 1 GW
 ENCL. NEMA: 1 MOUNTING: SELF STANDING BRANCH CIRCUIT DEVICES: CIRCUIT BREAKERS
 LOCATION: ELECTRICAL ROOM 117 NODE#: NOTES: 90"H x 78"W x 24"D

CIRCUIT NO.	ITEM SERVED	CIRCUIT BREAKER			CIRCUIT			REMARKS
		AMPERE	TRIP AMPERE	POLE	WIRE	GRD	C	
1A	MAIN CIRCUIT BREAKER	1200	1100	3	-	-	-	◇
1B	GROUND FAULT PROTECTION	-	-	-	-	-	-	◇
1C	METERING	-	-	-	-	-	-	-
2A	AUTOMATIC TRANSFORMER SWITCH	800	800	3	-	-	-	◇
2BL	SPACE	100	100	3	-	-	-	-
2BR	SPACE	-	-	3	-	-	-	-
2CL	SPACE	100	100	3	-	-	-	-
2CR	PANELBOARD 'K'	100	100	3	-	-	-	◇
2DL	TRANSFORMER T5	100	50	3	-	-	-	◇
2DR	SPACE	100	50	3	-	-	-	-
2EL	SPACE	-	-	-	-	-	-	-
2ER	SPACE	-	-	-	-	-	-	-

◇ REFER TO ONE LINE DIAGRAM ASJUSTABLE UP TO 1200 AMP.



DETAIL - TYPE 'Q' LIGHTING FIXTURE
NOT TO SCALE

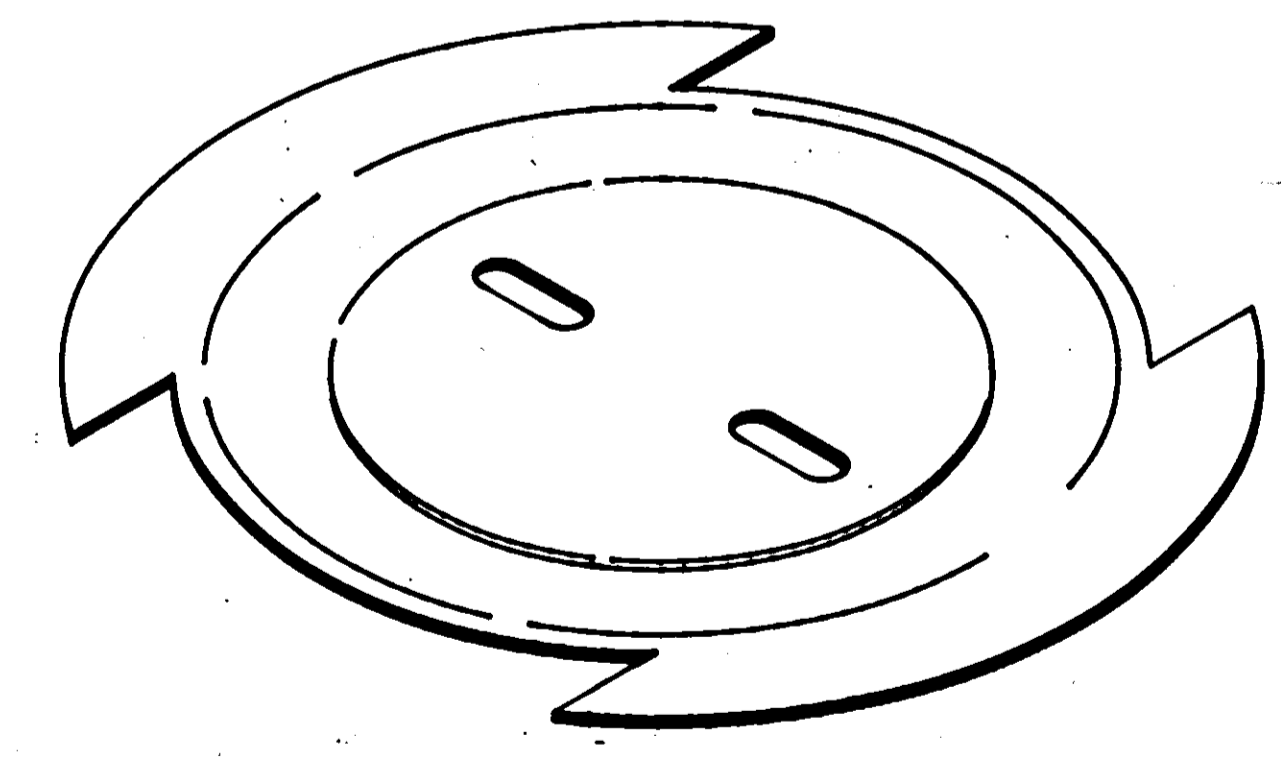


ELEVATION - SWBD 'E'
NOT TO SCALE

SWITCHBOARD: "SWBD 'E'" BUS RATING: 1000 AMPS. MAIN O.C. DEVICE OR MLO: MLO
 MIN. AIC: 42,000 VOLTS: 480Y/277 PHASE(S): 3 WIRES: 4 + 1 GW
 ENCL. NEMA: 1 MOUNTING: SELF STANDING BRANCH CIRCUIT DEVICES: CIRCUIT BREAKERS
 LOCATION: ELECTRICAL ROOM 117 NODE#: NOTES: 90"H x 42"W x 24"D

CIRCUIT NO.	ITEM SERVED	CIRCUIT BREAKER			CIRCUIT			REMARKS
		AMPERE	TRIP AMPERE	POLE	WIRE	GRD	C	
1A	MAIN LUGS ONLY	-	-	3	-	-	-	◇
1BL	MOTOR CONTROL CENTER - MCC	200	200	3	-	-	-	◇
1BR	SPACE	-	-	3	-	-	-	-
1CL	ACWC-1	400	225	3	-	-	-	◇
1CR	PANELBOARD 'C'	100	100	3	-	-	-	◇
1DL	TRANSFORMER T-2	100	70	3	-	-	-	◇
1DR	SPACE	400	225	3	-	-	-	-
1EL	SPACE	100	100	3	-	-	-	-
1ER	PANELBOARD 'D'	200	150	3	-	-	-	◇
1FL	PANELBOARD 'A'	100	100	3	-	-	-	◇
1FR	SPACE	-	-	3	-	-	-	-
1GL	SPACE	-	-	3	-	-	-	-
1GR	SPACE	-	-	3	-	-	-	-

◇ REFER TO ONE LINE DIAGRAM



DETAIL - FLOOR BOX COVER PLATE
NOT TO SCALE

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 9192 Red Branch Road, Suite 300
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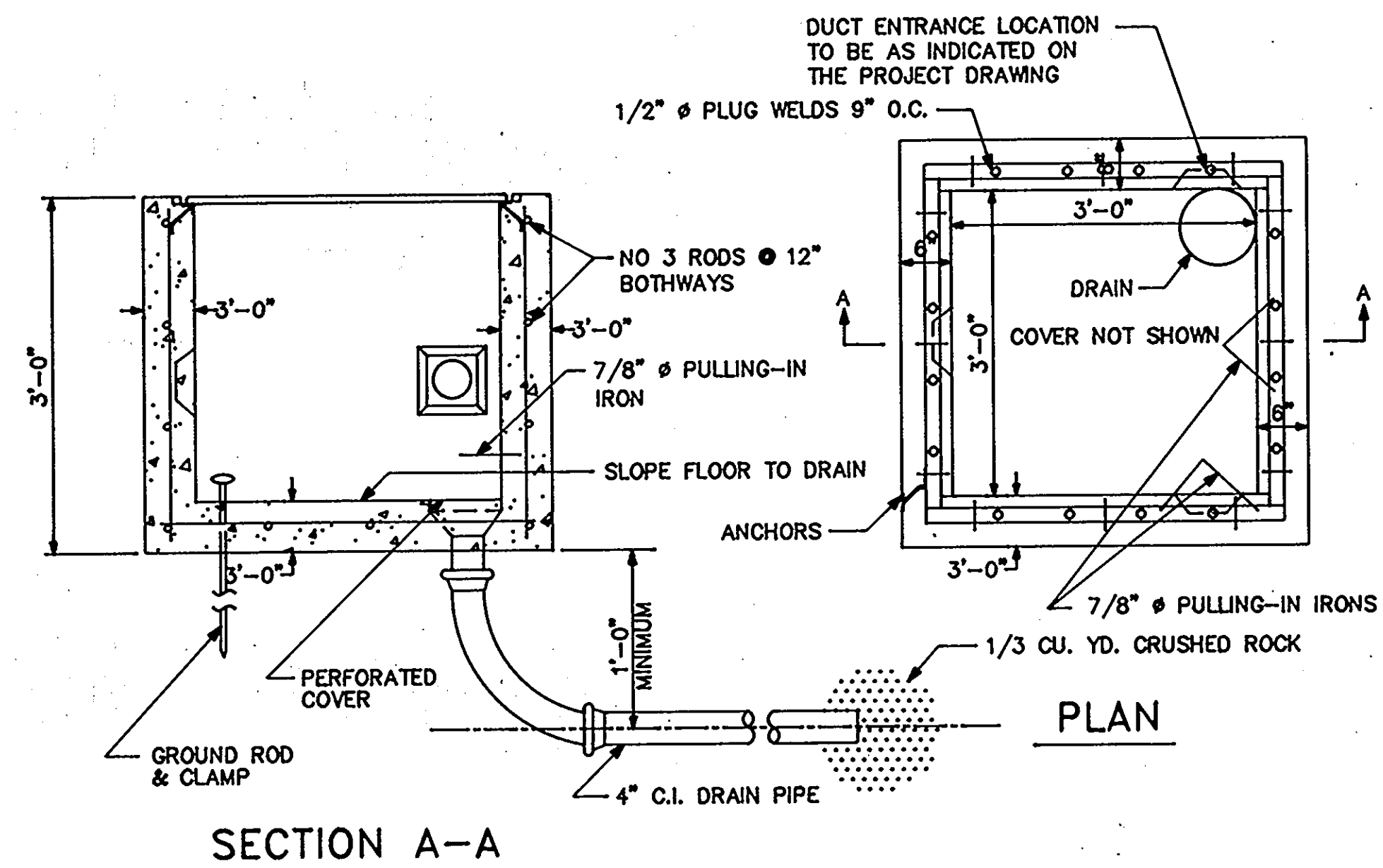
IN ASSOCIATION WITH :

CIVIL & GEOTECH ENGINEER: E B A ENGINEERING, INC.
 STRUCTURAL ENGINEER: QODESH ENGINEERING SERVICES, INC.
 MECHANICAL & ELECTRICAL ENGINEER: BHARGAVA INTERNATIONAL, INC.
 FIRE PROTECTION ENGINEER: STANTON ENGINEERING



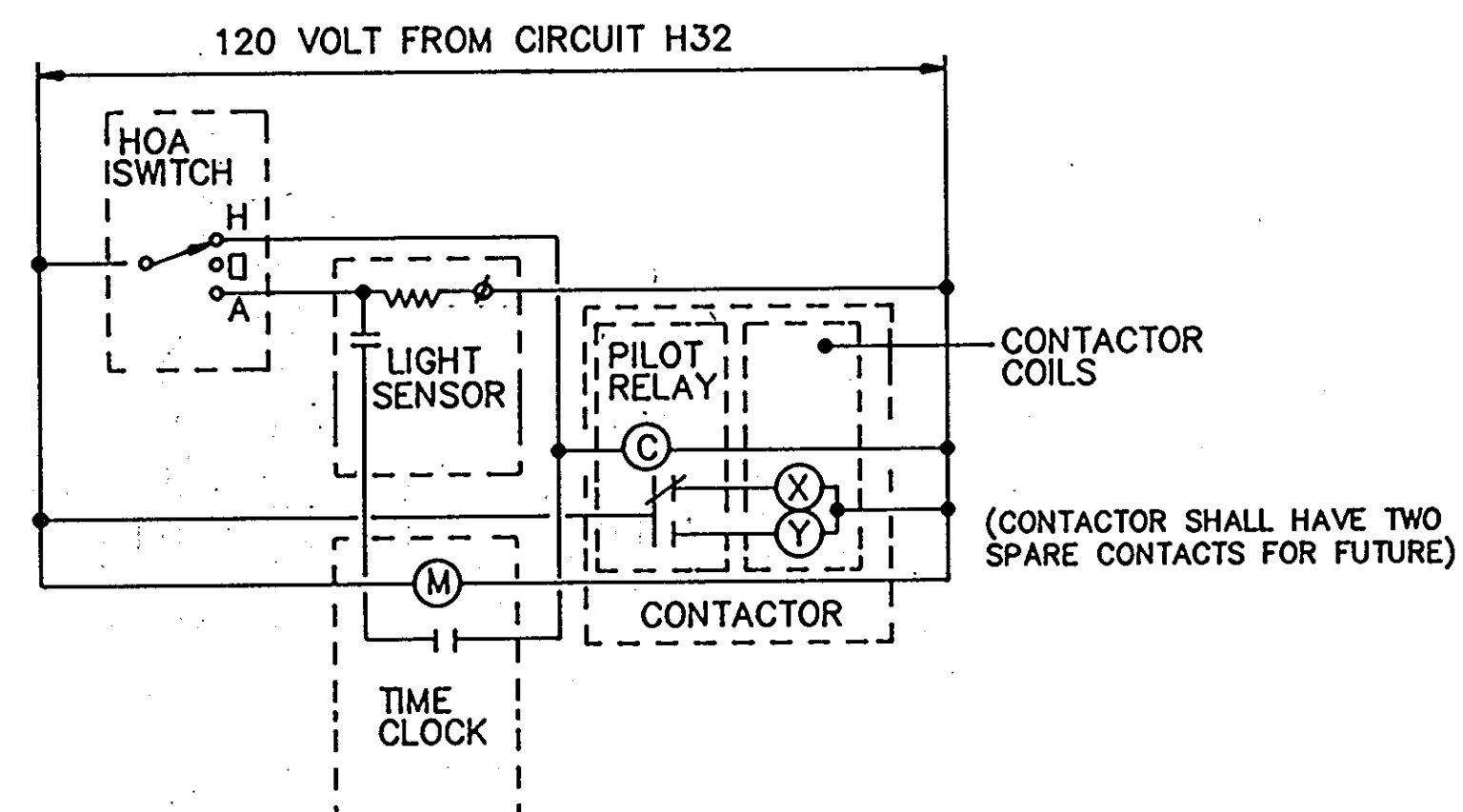
REVISIONS	
AS BUILT	11/24/04

DETAILS		87 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707		DATE: 3/25/92
		DRAWING NO. E8.2



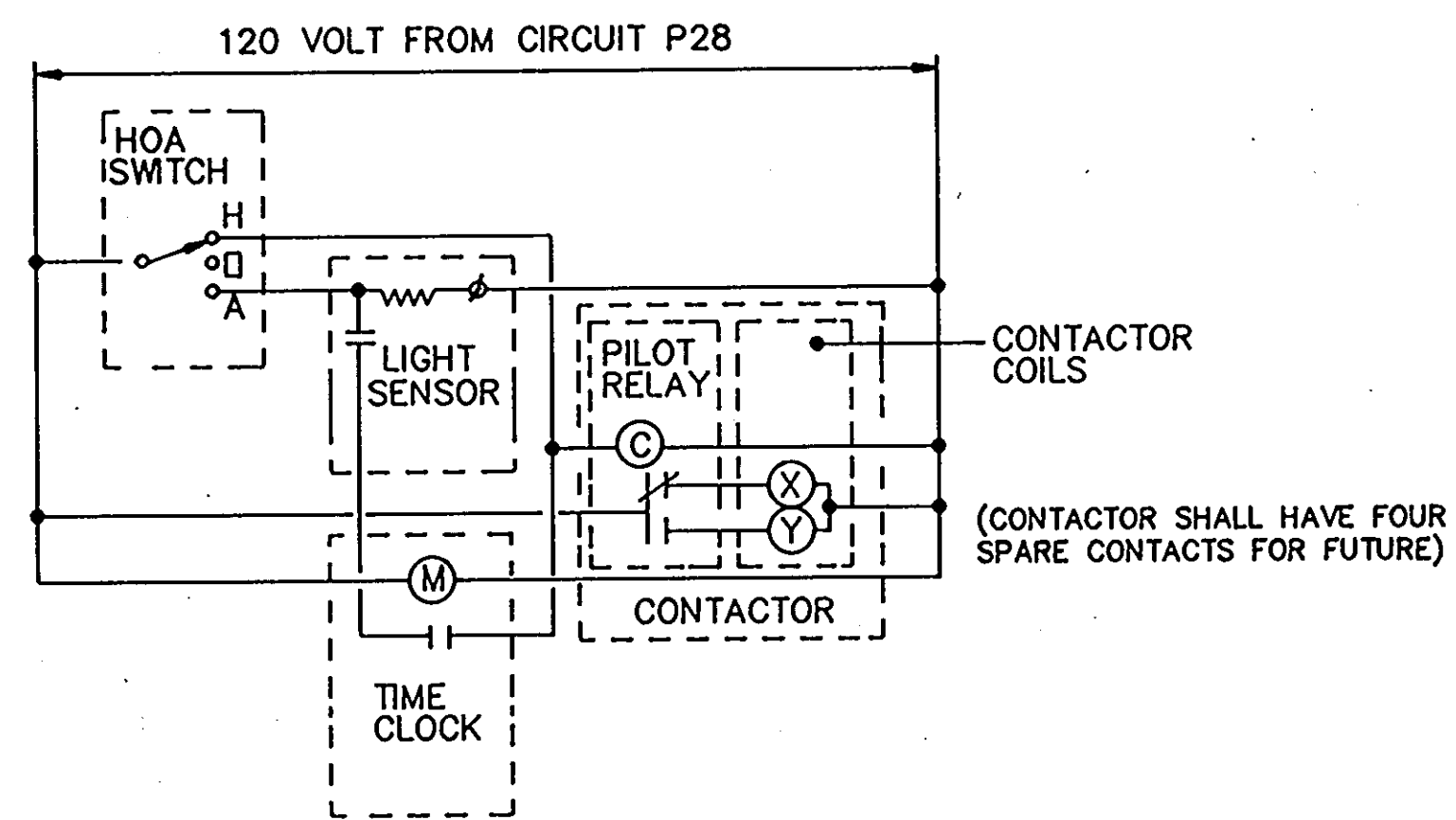
SECTION A-A

3'x3'x3' HANDHOLE DETAIL
NOT TO SCALE



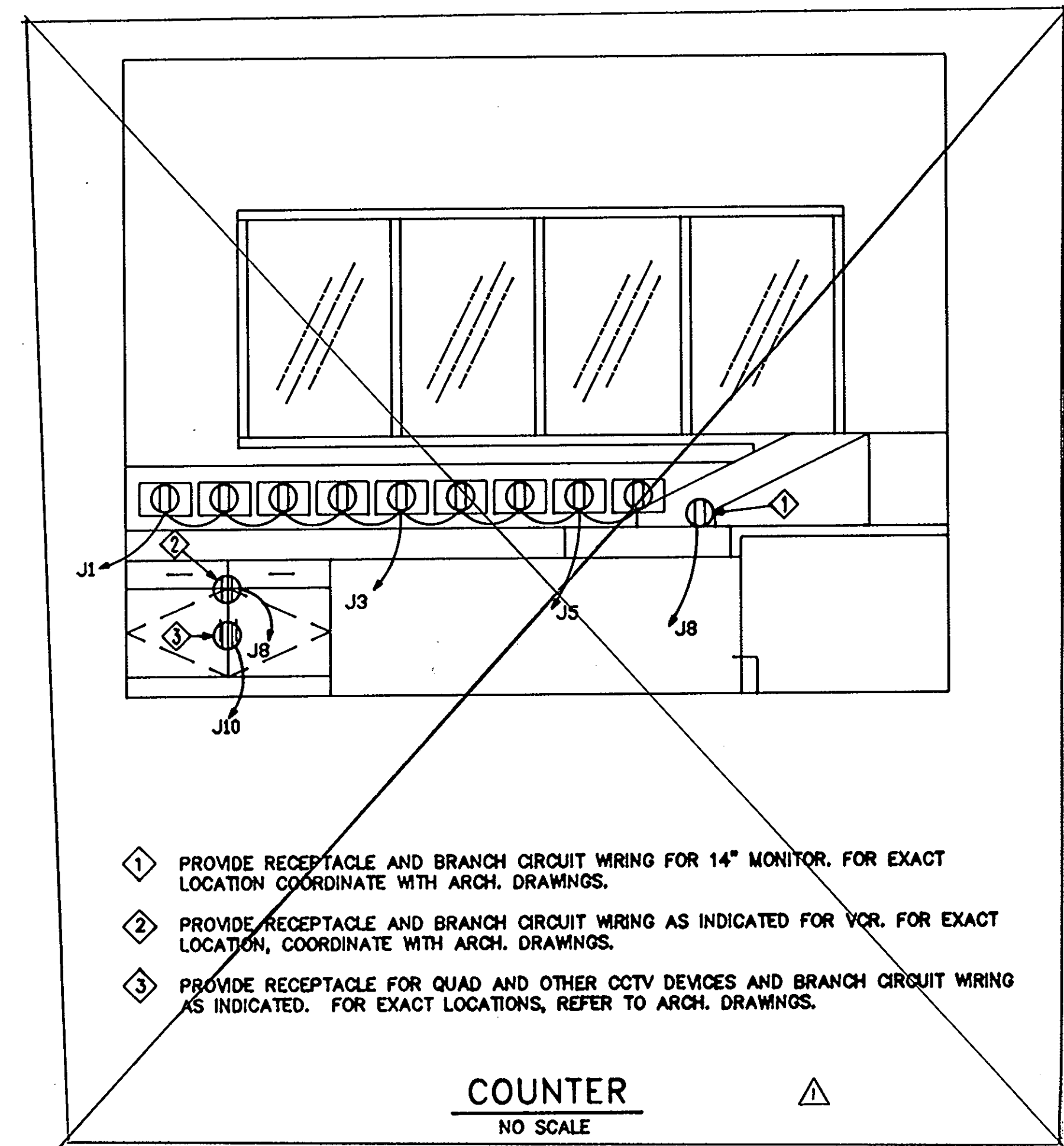
EXTERIOR LIGHTING CONTROL
DIAGRAM (FIRE STATION)

NO SCALE ET6007



EXTERIOR AND SITE LIGHTING
CONTROL DIAGRAM (PHASE -1)

NO SCALE ET6007



COUNTER
NO SCALE

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DETAILS		88 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707		DATE: 3/25/92 DRAWING NO. E8.3

PANELBOARD: <u>A</u>		BUS RATING: <u>225 AMP</u>		MAIN O.C. DEVICE OR MLO: <u>MLO</u>	
MINIMUM AIC: <u>14,000</u>		VOLTS: <u>480Y/277</u>		PHASE (S): <u>3</u> WRES: <u>4+1GW</u>	
ENCL. NEMA: <u>1</u>		MOUNTING: <u>SURFACE</u>		BRANCH CIRCUIT DEVICE: <u>BOLT-ON CB</u>	
LOCATION: <u>ROOM 117</u>		NOTES: EMERGENCY POWER ⚡			

ITEM DESCRIPTION	WRES	GRD	C	CB			WRES	GRD	C	ITEM DESCRIPTION	
				P	T	A					
VAV BOXES RM 113, 079	-	-	-	1	20	1	2	1	20	VAV BOX RM 105, 106	
VAV BOXES RM 092	-	-	-	1	20	3	4	1	20	VAV BOX RM 110, 111	
VAV BOXES RM 093	-	-	-	1	20	5	6	1	15	VAV BOX RM 109	
LTG RM 116,117	-	-	-	1	20	7	8	1	15	VAV BOX RM 071, 093	
LTG NIGHT & EXT LIGHTS	-	-	-	1	20	9	10	1	20	ENGINE JACKET WATER HEATER	
LTG CORRIDOR & RM 114, 115	-	-	-	1	20	11	12	1	20	SPARE	
SPARE	-	-	-	1	20	13	14	1	20	SPARE	
SPARE	-	-	-	1	20	15	16	1	20	SPARE	
SPARE	-	-	-	1	20	17	18	1	20	SPARE	
SPARE	-	-	-	1	19	20	1	-	-	SPARE	
SPARE	-	-	-	1	21	22	1	-	-	SPARE	
SPARE	-	-	-	1	23	24	1	-	-	SPARE	
SPACE NOT AVAILABLE				-	-	25	26	-	-	-	
SPACE NOT AVAILABLE				-	-	27	28	3	100	-	XPWR T1 75 KVA ⚡
SPACE NOT AVAILABLE				-	-	29	30	-	-	-	-

PANELBOARD: <u>C</u>		BUS RATING: <u>100 AMP</u>		MAIN O.C. DEVICE OR MLO: <u>MCB 100A</u>	
MINIMUM AIC: <u>14,000</u>		VOLTS: <u>480Y/277</u>		PHASE (S): <u>3</u> WRES: <u>4+1GW</u>	
ENCL. NEMA: <u>1</u>		MOUNTING: <u>RECESSED</u>		BRANCH CIRCUIT DEVICE: <u>BOLT-ON CB</u>	
LOCATION: <u>CONTROL ROOM #58</u>		NOTES: EMERGENCY POWER ⚡			

ITEM DESCRIPTION	WRES	GRD	C	CB			WRES	GRD	C	ITEM DESCRIPTION
				P	T	A				
VAV BOXES RM 058	-	-	-	1	20	1	2	1	20	VAV BOXES RM 069
VAV BOXES RM 058	-	-	-	1	20	3	4	1	20	LTG CORRIDOR 37,40,49,54
VAV BOXES RM 054,057	-	-	-	1	20	5	6	1	20	LTG RM 55,56,70-72,76
LTG RM 058-061	-	-	-	1	20	7	8	1	20	LTG RM 68,83,77,79,80
LTG RM 057, 058	-	-	-	1	20	9	10	1	20	LTG RM 65, 66, 69
LTG RM 063, 064, 067	-	-	-	1	20	11	12	1	20	LTG EXIT
EXTERIOR LTG	-	-	-	1	20	13	14	-	-	-
EXTERIOR LTG	-	-	-	1	20	15	16	3	15	ROLLING DOOR RM 067
EXTERIOR PARKING LTG	-	-	-	1	20	17	18	-	-	-
EXTERIOR PARKING LTG	-	-	-	1	20	19	20	1	20	LTG LOBBY 071
EXTERIOR PARKING LTG	-	-	-	1	20	21	22	1	20	SPARE
EXTERIOR PARKING LTG	-	-	-	1	20	23	24	1	20	SPARE
SPARE	-	-	-	1	20	25	26	1	20	SPARE
SPARE	-	-	-	1	20	27	28	1	20	SPARE
SPARE	-	-	-	1	20	29	30	1	20	SPARE

PANELBOARD: <u>D</u>		BUS RATING: <u>225 AMP</u>		MAIN O.C. DEVICE OR MLO: <u>MCB 150A</u>	
MINIMUM AIC: <u>14,000</u>		VOLTS: <u>480Y/277</u>		PHASE (S): <u>3</u> WRES: <u>4+1GW</u>	
ENCL. NEMA: <u>1</u>		MOUNTING: <u>SURFACE</u>		BRANCH CIRCUIT DEVICE: <u>BOLT-ON CB</u>	
LOCATION: <u>FIRE STATION RM 014</u>		NOTES: EMERGENCY POWER ⚡			

ITEM DESCRIPTION	WRES	GRD	C	CB			WRES	GRD	C	ITEM DESCRIPTION
				P	T	A				
VAV BOXES RM 022,025 & 030	-	-	-	1	20	1	2	-	-	-
VAV BOXES RM 003	-	-	-	1	20	3	4	3	70	PANEL 'L' ⚡
VAV BOXES RM 013,016	-	-	-	1	20	5	6	-	-	-
-	-	-	-	-	-	7	8	-	-	-
OVERHEAD DOORS	-	-	-	3	15	9	10	3	70	TRANSFORMER T3, 45KVA ⚡
-	-	-	-	-	-	11	12	-	-	-
-	-	-	-	-	-	13	14	-	-	-
OVERHEAD DOORS	-	-	-	3	15	15	16	3	-	SPACE
-	-	-	-	-	-	17	18	-	-	-
SPARE	-	-	-	1	20	19	20	1	20	SPARE
SPARE	-	-	-	1	20	21	22	1	20	SPARE
SPARE	-	-	-	1	20	23	24	1	20	SPARE
SPARE	-	-	-	1	20	25	26	-	-	SPACE
SPARE	-	-	-	1	20	27	28	-	-	SPACE
SPARE	-	-	-	1	20	29	30	-	-	SPACE

PANELBOARD: <u>E</u>		BUS RATING: <u>225 AMP</u>		MAIN O.C. DEVICE OR MLO: <u>225 AMP</u>	
MINIMUM AIC: <u>10,000</u>		VOLTS: <u>208Y/120</u>		PHASE (S): <u>3</u> WRES: <u>4+1GW</u>	
ENCL. NEMA: <u>1</u>		MOUNTING: <u>SURFACE</u>		BRANCH CIRCUIT DEVICE: <u>BOLT-ON CB</u>	
LOCATION: <u>ROOM 117</u>		NOTES: EMERGENCY POWER ⚡			

ITEM DESCRIPTION	WRES	GRD	C	CB			WRES	GRD	C	ITEM DESCRIPTION	
				P	T	A					
RECEPT RM 117	-	-	-	1	20	1	2	1	20	RECEPT WIREMOLD 110	
RECEPT IM 117	-	-	-	1	20	3	4	1	20	RECEPT WIREMOLD 110	
RECEPT RM 96, 97	-	-	-	1	20	5	6	1	20	RECEPT WIREMOLD 110	
DEDICATED RECEPT RM 94	-	-	-	1	20	7	8	1	20	RECEPT RM 116, 117	
DEDICATED RECEPT RM 94	-	-	-	1	20	9	10	1	20	RECEPT RM 84-86	
DEDICATED RECEPT RM 94	-	-	-	1	20	11	12	1	20	RECEPT RM 091	
DEDICATED RECEPT RM 109	-	-	-	1	20	13	14	1	20	FUEL TRANSFER PUMPS CONTROL PANEL	
DWH - MECH. ROOM	-	-	-	1	15	15	16	1	20	RELOCATED U/G TANK ANNUNCIATOR PANEL	
POHW - MECH. ROOM	-	-	-	1	20	17	18	1	20	FUEL PUMP IN DAY TANK	
ATC PANEL (MECH RM)	-	-	-	1	20	19	20	-	-	-	
FACP - ELECT. RM	-	-	-	1	20	21	22	3	70	PANEL 'Y' ⚡	
FLOOR RECEPT RM 091	-	-	-	1	20	23	24	-	-	-	
PROJECTOR SCREEN RM 091	-	-	-	1	20	25	26	1	20	SPARE	
BATTERY CHARGER FOR GENERATOR	-	-	-	1	20	27	28	1	20	SPARE	
SPARE	-	-	-	1	20	29	30	1	20	SPARE	
SPACE	-	-	-	1	31	32	1	20	-	SPARE	
SPACE	-	-	-	1	33	34	1	20	-	SPARE	
SPACE	-	-	-	1	35	36	1	20	-	SPARE	
SPACE NOT AVAILABLE				-	-	37	38	-	-	-	
SPACE NOT AVAILABLE				-	-	39	40	3	100	-	PANEL 'P' ⚡
SPACE NOT AVAILABLE				-	-	41	42	-	-	-	-

PANELBOARD: <u>F</u>		BUS RATING: <u>100 AMP</u>		MAIN O.C. DEVICE OR MLO: <u>MLO</u>	
MINIMUM AIC: <u>10,000</u>		VOLTS: <u>208Y/120</u>		PHASE (S): <u>3</u> WRES: <u>4+1GW</u>	
ENCL. NEMA: <u>1</u>		MOUNTING: <u>SURFACE</u>		BRANCH CIRCUIT DEVICE: <u>BOLT-ON CB</u>	
LOCATION: <u>ELECT. RM 117</u>		NOTES: NORMAL POWER ⚡			

ITEM DESCRIPTION	WRES	GRD	C	CB			WRES	GRD	C	ITEM DESCRIPTION
				P	T	A				
RECEPT RM 071	-	-	-	1	20	1	2	1	20	RECEPT RM 080,081
RECEPT RM 074	-	-	-	1	20	3	4	1	20	RECEPT RM 75-76, 81, 92
RECEPT RM 073	-	-	-	1	20	5	6	1	20	RECEPT EWC RM 71
SPARE	-	-	-	1	20	7	8	1	20	SOLENOID VALVE RM 116
SPARE	-	-	-	1	20	9	10	1	20	SPARE
SPARE	-	-	-	1	20	11	12	1	20	SPARE
SPARE	-	-	-	1	13	14	1	20	SPARE	
SPARE	-	-	-	1	15	16	1	20	SPARE	
SPARE	-	-	-	1	17	18	1	20	SPARE	
SPARE	-	-	-	1	19	20	1	20	SPARE	
SPARE	-	-	-	1	21	22	1	20	SPARE	
SPARE	-	-	-	1	23	24	1	20	SPARE	
SPARE	-	-	-	1	25	26	1	-	-	SPACE
SPARE	-	-	-	1	27	28	1	-	-	SPACE
SPARE	-	-	-	1	29	30	1	-	-	SPACE

PANELBOARD: <u>H</u>		BUS RATING: <u>225 AMP</u>		MAIN O.C. DEVICE OR MLO: <u>MCB 150A</u>	
MINIMUM AIC: <u>10,000</u>		VOLTS: <u>208Y/120V</u>		PHASE (S): <u>3</u> WRES: <u>4+1GW</u>	
ENCL. NEMA: <u>1</u>		MOUNTING: <u>SURFACE</u>		BRANCH CIRCUIT DEVICE: <u>BOLT-ON CB</u>	
LOCATION: <u>FIRE STATION ROOM #014</u>		NOTES: EMERGENCY POWER ⚡			

ITEM DESCRIPTION	WRES	GRD	C	CB			WRES	GRD	C	ITEM DESCRIPTION	
				P	T	A					
RECEPT RM 001	-	-	-	1	20	1	2	1	20	RECEPT RM 017 REFRIGERATOR	
RECEPT RM 001	-	-	-	1	20	3	4	1	20	AUTOMATIC LIGHTS ON SYSTEM CONTROL PANEL	
RECEPT RM 018	-	-	-	1	20	5	6	1	20	EXTERIOR TYPE 'Y' FIXTURE CONTROL PANEL	
RECEPT RM 020	-	-	-	1	20	7	8	1	20	EMERGENCY RESPONSE SYSTEM HORN	
RECEPT RM 020 WIREMOLD	-	-	-	1	20	9	10	1	20	DOOR BELL SYSTEM BELL AND HORN	
RECEPT RM 020 WIREMOLD	-	-	-	1	20	11	12	1	20	RECEPT RM 024, 025, P30	
RECEPT RM 019	-	-	-	1	20	13	14	1	15	UH-1 AND UH-2 RM 019	
RECEPT RM 019	-	-	-	1	20	15	16	1	15	UH-1 AND UH-2 RM 019	
UH'S AND REF'S RM 021, 033, 034	-	-	-	1	15	17	18	1	15	UH-1 AND EF-1 RM 018,009	
LTG STORE AND SHOWER	-	-	-	1	20	19	20	1	20	SPARE	
SPARE	-	-	-	1	20	21	22	1	20	SPARE	
SPARE	-	-	-	1	20	23	24	1	20	SPARE	
SPARE	-	-	-	1	20	25	26	1	20	SPARE	
FIRE CONSOLE	-	-	-	1	20	27	28	1	20	CUH-1 RM 001,022 + UH-1	
OVERHEAD CORD REELS	-	-	-	1	20	29	30	1	20	J.B. ABOVE DOOR RM 022	
GAS FUEL PUMP	2#10	1#10	1"	1	20	31	32	1	20	SPARE	
GAS FUEL PUMP AND LIGHTS	2#10	1#10	1"	1	20	33	34	1	20	SPARE	
SPARE	-	-	-	1	20	35	36	-	-	SPACE	
SPACE NOT AVAILABLE				-	-	37	38	-	-	-	
SPACE NOT AVAILABLE				-	-	39	40	3	90	-	PANEL 'T' ⚡
SPACE NOT AVAILABLE				-	-	41	42	-	-	-	-

DRAWING NOTES:
 ⚡ UNLESS OTHERWISE INDICATED, ALL WIRES FOR BRANCH CIRCUIT WIRING SHALL BE 2#12 AWG AND 1#12 GW -3/4" CONDUIT.
 ⚡ FOR WIRE AND RACEWAY SIZES, REFER TO ONE LINE DIAGRAM ON DRAWING E6.1.

PANELBOARD SCHEDULES		89 OF 90
HOWARD COUNTY PUBLIC SAFETY COMPLEX		CAPITAL PROJECT NO. C - 0227
SCAGGSVILLE ANNEX 11226 ROUTE 216 LAUREL, MD 20707		DATE: 3/25/92
		DRAWING NO. E9.1

ARCHITECTURAL TECHNOLOGIES, INC.
 Architects and Construction Consultants
 9192 Red Branch Road, Suite 300
 Columbia, MD 21045 (301)995-4067

IN ASSOCIATION WITH:

CIVIL & GEOTECH ENGINEER:	E B A ENGINEERING, INC.
STRUCTURAL ENGINEER:	QODESH ENGINEERING SERVICES, INC.
MECHANICAL & ELECTRICAL ENGINEER:	BHARGAVA INTERNATIONAL, INC.
FIRE PROTECTION ENGINEER:	STANTON ENGINEERING

SEAL: *[Signature]*

REVISIONS

1650

PANELBOARD: J BUS RATING: 100 AMP MAIN O.C. DEVICE OR MLO: MCB 70A
 MINIMUM AIC: 10,000 VOLTS: 208Y/120 PHASE (S): 3 WIRES: 4+1GW
 ENCL. NEMA: 1 MOUNTING: SURFACE BRANCH CIRCUIT DEVICE: BOLT-ON CB
 LOCATION: CONTROL ROOM 057 NOTES: EMERGENCY POWER

ITEM DESCRIPTION	WIRES	GRD	C	CB			WIRES	GRD	C	ITEM DESCRIPTION
				P	TA	TA				
RECEPT FOR TV'S MONITOR	-	-	-	1	2	1	-	-	-	RECEPT WIREMOLD RM 057
RECEPT FOR TV'S MONITOR	-	-	-	1	2	3	4	1	20	RECEPT WIREMOLD RM 057
RECEPT FOR TV'S MONITOR	-	-	-	1	2	5	6	1	20	RECEPT WIREMOLD RM 057
CCTV CAMERAS	-	-	-	1	2	7	8	1	20	RECEPT FOR TV, 14" MONITOR AND VCR
CCTV CAMERAS	-	-	-	1	2	9	10	1	20	RECEPT FOR QUAID, OTHER DEVICES
CCTV CAMERAS	-	-	-	1	2	11	12	1	20	PAGING SYSTEM PANEL
CCTV CAMERAS	-	-	-	1	2	13	14	1	20	SPARE
SPARE	-	-	-	1	2	15	16	1	20	SPARE
SPARE	-	-	-	1	2	17	18	1	20	SPARE
SPARE	-	-	-	1	2	19	20	1	20	SPARE
SPARE	-	-	-	1	2	21	22	1	20	SPARE
SPARE	-	-	-	1	2	23	24	1	20	SPARE
SPARE	-	-	-	1	2	25	26	1	20	SPARE
SPARE	-	-	-	1	2	27	28	1	20	SPARE
SPARE	-	-	-	1	2	29	30	1	20	SPARE

PANELBOARD: K BUS RATING: 100 AMP MAIN O.C. DEVICE OR MLO: MLO
 MINIMUM AIC: 14,000 VOLTS: 480Y/277V PHASE (S): 3 WIRES: 4+1GW
 ENCL. NEMA: 1 MOUNTING: SURFACE BRANCH CIRCUIT DEVICE: BOLT-ON CB
 LOCATION: ROOM 117 NOTES: NORMAL POWER

ITEM DESCRIPTION	WIRES	GRD	C	CB			WIRES	GRD	C	ITEM DESCRIPTION
				P	TA	TA				
LTG RM 105, 106	-	-	-	1	2	1	2	1	20	LTG RM 73, 74, 95, 96
LTG RM 94, 97, 99, 100, 109	-	-	-	1	2	3	4	1	20	SPARE
LTG RM 91, 111	-	-	-	1	2	5	6	1	20	SPARE
LTG RM 81, 84-86, 88-90	-	-	-	1	2	7	8	-	-	SPARE
LTG MEETING RM 110	-	-	-	1	2	9	10	3	70	TRANSFORMER TO 48KVH SPARE
LTG MEETING RM 110	-	-	-	1	2	11	12	-	-	SPARE
CUH-2 RM 072	-	-	-	1	2	13	14	1	20	SPARE
SPARE	-	-	-	1	2	15	16	1	20	SPARE
SPARE	-	-	-	1	2	17	18	1	20	SPARE
SPARE	-	-	-	1	2	19	20	1	20	SPARE
SPARE	-	-	-	1	2	21	22	1	20	SPARE
SPARE	-	-	-	1	2	23	24	1	20	SPARE
SPARE XFMR TO 45KVA	-	-	-	1	2	25	26	1	20	SPARE
SPARE XFMR TO 45KVA	-	-	-	1	2	27	28	1	20	SPARE
SPARE XFMR TO 45KVA	-	-	-	1	2	29	30	1	20	SPARE

PANELBOARD: L BUS RATING: 100 AMP MAIN O.C. DEVICE OR MLO: MLO
 MINIMUM AIC: 14,000 VOLTS: 480Y/277V PHASE (S): 3 WIRES: 4+1GW
 ENCL. NEMA: 1 MOUNTING: SURFACE BRANCH CIRCUIT DEVICE: BOLT-ON CB
 LOCATION: ROOM 014 NOTES: EMERGENCY POWER

ITEM DESCRIPTION	WIRES	GRD	C	CB			WIRES	GRD	C	ITEM DESCRIPTION
				P	TA	TA				
LTG RM 001, 002, 003, 009	-	-	-	1	2	1	2	1	20	LTG ENGINE BAY RM 019
LTG RM 010 - 017	-	-	-	1	2	3	4	1	20	LTG ENGINE BAY RM 019
NIGHT & EXT LIGHTS	-	-	-	1	2	5	6	1	20	LTG ENGINE BAY RM 019
LTG RM 028, 030-034, 018	-	-	-	1	2	7	8	1	20	SPARE
LTG RM 020-025	-	-	-	1	2	9	10	1	20	SPARE
SPARE	-	-	-	1	2	11	12	1	20	EXTERIOR LIGHTING
SPARE	-	-	-	1	2	13	14	1	20	SPARE
SPARE	-	-	-	1	2	15	16	1	20	SPARE
SPARE	-	-	-	1	2	17	18	1	20	SPARE
SPARE	-	-	-	1	2	19	20	1	20	SPARE
SPARE	-	-	-	1	2	21	22	1	20	SPARE
SPARE	-	-	-	1	2	23	24	1	20	SPARE
SPARE	-	-	-	1	2	25	26	1	20	SPARE
SPARE	-	-	-	1	2	27	28	1	20	SPARE
SPARE	-	-	-	1	2	29	30	1	20	SPARE

PANELBOARD: T BUS RATING: 100 AMP MAIN O.C. DEVICE OR MLO: MCB 90 AMP
 MINIMUM AIC: 10,000 VOLTS: 208Y/120 PHASE (S): 3 WIRES: 4+1GW
 ENCL. NEMA: 1 MOUNTING: SURFACE BRANCH CIRCUIT DEVICE: BOLT-ON CB
 LOCATION: FRONT OF 017 NOTES: MAIN CIRCUIT BREAKER WITH SHUNT TRIP

ITEM DESCRIPTION	WIRES	GRD	C	CB			WIRES	GRD	C	ITEM DESCRIPTION
				P	TA	TA				
RECEPT RANGE RM 017	2#4	1#8	1"	2	7	1	2	1	20	RECEPT COUNTER RM 017
RECEPT COUNTER RM 017	-	-	-	3	4	1	2	1	20	RECEPT COUNTER RM 017
RECEPT COUNTER RM 017	-	-	-	1	2	5	6	1	20	RECEPT COUNTER RM 017
FOOD WASTE DISPOSER RM 017	-	-	-	1	2	7	8	1	20	HOOD LIGHT + EXH FAN
SPARE	-	-	-	1	2	9	10	1	20	SPARE
SPARE	-	-	-	1	2	11	12	1	20	SPARE
SPARE	-	-	-	1	2	13	14	1	20	SPARE
SPARE	-	-	-	1	2	15	16	1	20	SPARE
SPARE	-	-	-	1	2	17	18	1	20	SPARE
SPARE	-	-	-	1	2	19	20	1	20	SPARE

PANELBOARD: N BUS RATING: 225 AMP MAIN O.C. DEVICE OR MLO: MLO
 MINIMUM AIC: 10,000 VOLTS: 208Y/120 PHASE (S): 3 WIRES: 4+1GW
 ENCL. NEMA: 1 MOUNTING: SURFACE BRANCH CIRCUIT DEVICE: BOLT-ON CB
 LOCATION: FIRE STATION RM # 014 NOTES: NORMAL POWER

ITEM DESCRIPTION	WIRES	GRD	C	CB			WIRES	GRD	C	ITEM DESCRIPTION
				P	TA	TA				
RECEPT DRYER	2 #8	1 #10	3/4"	2	4	5	1	2	20	RECEPT RM 022
RECEPT WASHER	-	-	-	3	4	1	2	20	RECEPT 002, 003	
RECEPT RM 010-012	-	-	-	1	2	5	6	1	20	SPAIN
RECEPT EWC RM 012	-	-	-	1	2	7	8	1	20	RECEPT RM 014 016
RECEPT RM 013	-	-	-	1	2	9	10	1	20	RECEPT RM 016
RECEPT RM 031-034	-	-	-	1	2	11	12	1	20	RECEPT EXTERIOR w/GFI
RECEPT RM 030	-	-	-	1	2	13	14	1	20	RECEPT EXTERIOR w/GFI
RECEPT RM 022,028,030	-	-	-	1	2	15	16	1	20	CUH-1 SPARE
RECEPT RM 022	-	-	-	1	2	17	18	1	15	SPARE
RECEPT EWC RM 022	-	-	-	1	2	19	20	1	20	CUH-1 CORRIDOR RM 012, 030 & UH-1 RM 016
RECEPT RM 024	-	-	-	1	2	21	22	1	20	RECEPT RM 004, 005
RECEPT RM 025	-	-	-	1	2	23	24	1	20	RECEPT RM 006, 007
RECEPT RM 025	-	-	-	1	2	25	26	1	20	FLOOR RECEPT RM 030
DISHWASHER RM 017	-	-	-	1	2	27	28	2	30	SPECIAL RECEPT RM 002
SPARE	-	-	-	1	2	29	30	-	-	SPARE
SPARE	-	-	-	1	2	31	32	1	20	PROJECTOR SCREEN RM 030
SPARE	-	-	-	1	2	33	34	1	20	SPARE
SPARE	-	-	-	1	2	35	36	1	20	SPARE
SPARE	-	-	-	1	2	37	38	1	20	SPARE
SPARE	-	-	-	1	2	39	40	1	20	SPARE
SPARE	-	-	-	1	2	41	42	1	20	SPARE

PANELBOARD: P BUS RATING: 225 AMP MAIN O.C. DEVICE OR MLO: MCB 100A
 MINIMUM AIC: 10,000 VOLTS: 208Y/120 PHASE (S): 3 WIRES: 4+1GW
 ENCL. NEMA: 1 MOUNTING: RECESSED BRANCH CIRCUIT DEVICE: BOLT-ON CB
 LOCATION: CONTROL RM #058 NOTES: EMERGENCY POWER

ITEM DESCRIPTION	WIRES	GRD	C	CB			WIRES	GRD	C	ITEM DESCRIPTION
				P	TA	TA				
RECEPT RM 063,084,088,087	-	-	-	1	2	1	2	1	20	RECEPT RM 037,048,054,058
RECEPT RM 065,068,069	-	-	-	1	2	3	4	1	20	RECEPT RM 055
RECEPT RM 062-065, 040	-	-	-	1	2	5	6	1	20	RECEPT RM 058,057
RECEPT RM 058,060,069,070,081	-	-	-	1	2	7	8	1	20	RECEPT WIREMOLD 058
RECEPT RM 058, 070	-	-	-	1	2	9	10	1	20	RECEPT WIREMOLD 058
RECEPT RM 073, 074, 085	-	-	-	1	2	11	12	1	20	RECEPT WIREMOLD 058
LTG CELLS 045-048	-	-	-	1	2	13	14	1	20	DOOR CONTROLS (WESTIBU) SPARE
LTG CELLS 050-053	-	-	-	1	2	15	16	1	15	EXH FAN REF-1 1/4 HP
DOOR CONTROL FUEL ISLAND SHUNT TRIP	-	-	-	1	2	17	18	1	15	EXHAUST FAN REF-6 AND REF-8, REF-5
DOOR CONTROL RM 037, 040, 049 DOOR CONTROL TO SECURITY PANEL	-	-	-	1	2	19	20	2	20	LTG CELLS 041-044
DOOR CONTROL RM 054, 056	-	-	-	1	2	21	22	2	20	LTG CELLS 035-039
DOOR CONTROL DUCT RM-078-079 SMOKE DET.	-	-	-	1	2	23	24	1	20	DOOR CONTROL RM-062-064 LIGHTS - BULLPEN
DOOR CONTROL RM 072	-	-	-	1	2	25	26	1	20	DOOR CONTROL RM-067-068 LIGHTING
DOOR CONTROL RM 072	-	-	-	1	2	27	28	1	20	EXTERIOR LIGHT CONTROL SPARE
DOOR CONTROL RM 072	-	-	-	1	2	29	30	1	20	SLIDING DOOR CONTROLS RM-074-077 SPARE
SLIDING DOOR CONTROLS RM-080-083 SPARE	-	-	-	1	2	31	32	1	20	SLIDING DOOR CONTROLS RM-084-087 SPARE
SLIDING DOOR CONTROLS RM-088-093 SPARE	-	-	-	1	2	33	34	1	20	SLIDING DOOR CONTROLS RM-094-097 SPARE
SPARE	-	-	-	1	2	35	36	1	20	PANIC STATION AND HORN
SPARE PNL PC	-	-	-	1	2	37	38	1	20	EXHAUST FAN REF-18
SPARE PNL PC	-	-	-	1	2	39	40	1	20	SPARE EXTERIOR LIGHT CONTROL
SPARE PNL PC	-	-	-	1	2	41	42	1	20	SPARE EXTERIOR LIGHT CONTROL
SPARE PNL PC	-	-	-	1	2	43	44	1	20	SPARE PHOTOCELL

PANELBOARD: Q BUS RATING: 225 AMP MAIN O.C. DEVICE OR MLO: MCB 150A
 MINIMUM AIC: 10,000 VOLTS: 208Y/120 PHASE (S): 3 WIRES: 4+1GW
 ENCL. NEMA: 1 MOUNTING: SURFACE BRANCH CIRCUIT DEVICE: BOLT-ON CB
 LOCATION: ROOM 117 NOTES: NORMAL POWER

ITEM DESCRIPTION	WIRES	GRD	C	CB			WIRES	GRD	C	ITEM DESCRIPTION
				P	TA	TA				
RECEPT RM 084	-	-	-	1	2	1	2	1	20	RECEPT RM 114,115,087,112
RECEPT RM 085	-	-	-	1	2	3	4	1	20	RECEPT RM 088-090
RECEPT RM 086	-	-	-	1	2	5	6	1	20	RECEPT RM 091
RECEPT RM 094	-	-	-	1	2	7	8	1	20	RECEPT VENDING MACHINE
RECEPT RM 109	-	-	-	1	2	9	10	1	20	RECEPT VENDING MACHINE
RECEPT RM 111	-	-	-	1	2	11	12	1	20	RECEPT VENDING MACHINE
RECEPT RM 111,116	-	-	-	1	2	13	14	1	20	RECEPT WIREMOLD RM-110 SPARE
RECEPT RM 093,104,105	-	-	-	1	2	15	16	1	20	RECEPT WIREMOLD RM-110 SPARE
RECEPT 093, 100, 103	-	-	-	1	2	17	18	1	20	RECEPT WIREMOLD RM-110 SPARE
RECEPT RM 095	-	-	-	1	2	19	20	1	20	RECEPT RM 106
RECEPT RM 095,096	-	-	-	1	2	21	22	1	20	RECEPT RM 106
RECEPT RM 097, 099	-	-	-	1	2	23	24	1	20	RECEPT RM 106
RECEPT EXTERIOR w/GFI	-	-	-	1	2	25	26	1	15	EXHAUST FAN, REF-9,10
RECEPT EXTERIOR w/GFI	-	-	-	1	2	27	28	1	15	CUH-1 & UH-1
LTG REST RM 101-104	-	-	-	1	2	29	30	1	20	LTG MEETING RM 110, 111
LTG CONFERENCE RM	-	-	-	1	2	31	32	2	20	SPECIAL RECEPT RM 106
SPECIAL RECEPT RM 106	-	-	-	2	2	33	34	-	-	SPARE
SPACE NOT AVAILABLE	-	-	-	-	-	35	36	1	40	2#6 1#8 1"
SPACE NOT AVAILABLE	-	-	-	-	-	37	38	-	-	SPARE
SPACE NOT AVAILABLE	-	-	-	-	-	39	40	3	100	PANEL 1"
SPACE NOT AVAILABLE	-	-	-	-	-	41	42	-	-	SPARE

DRAWING NOTES:
 1. UNLESS OTHERWISE INDICATED, ALL WIRES FOR BRANCH CIRCUIT WIRING SHALL BE 2#12 AWG AND 1#12 GW -3/4" CONDUIT.