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ARCHITECTURAL continues.....

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ELECTRICAL

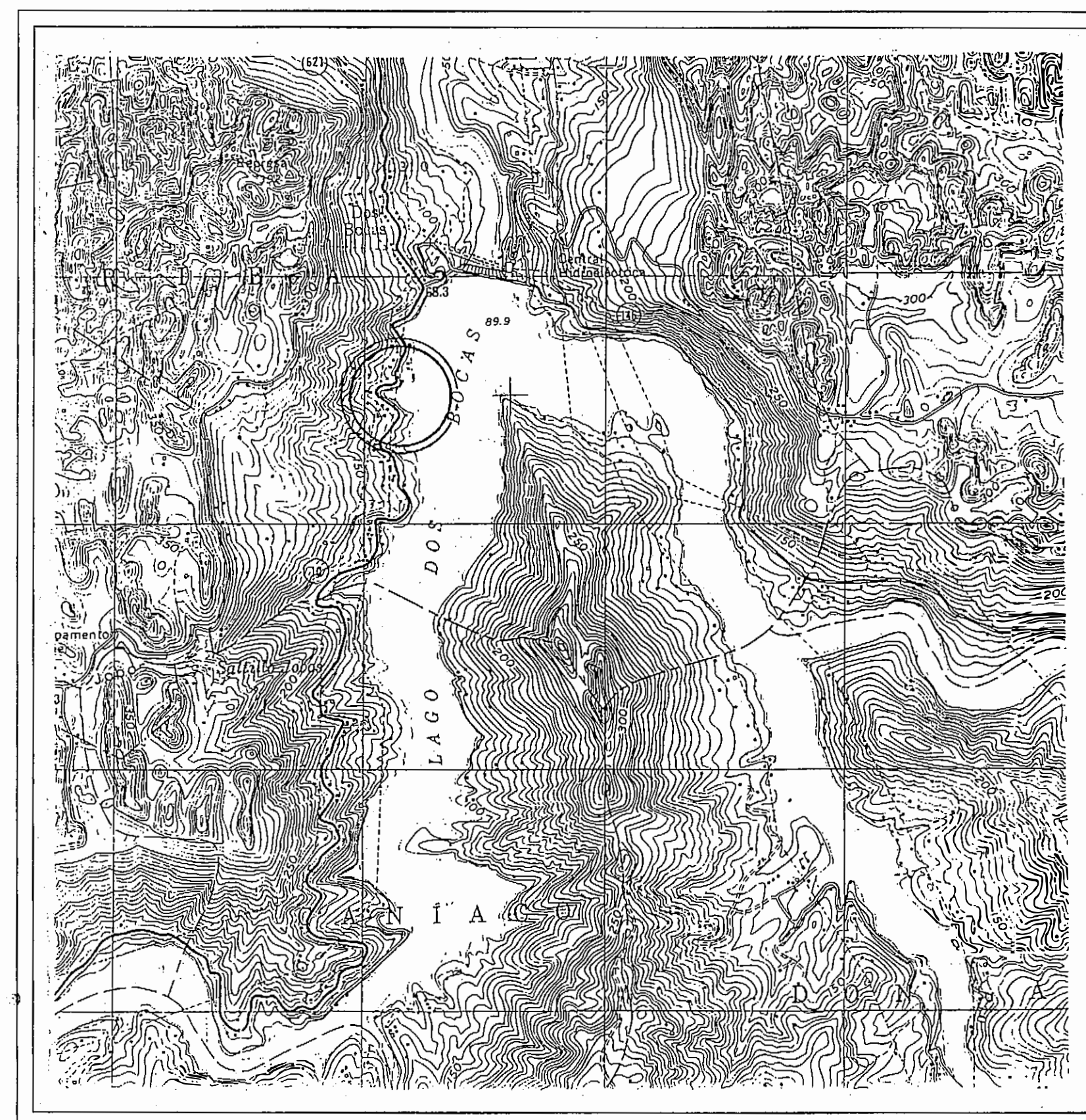
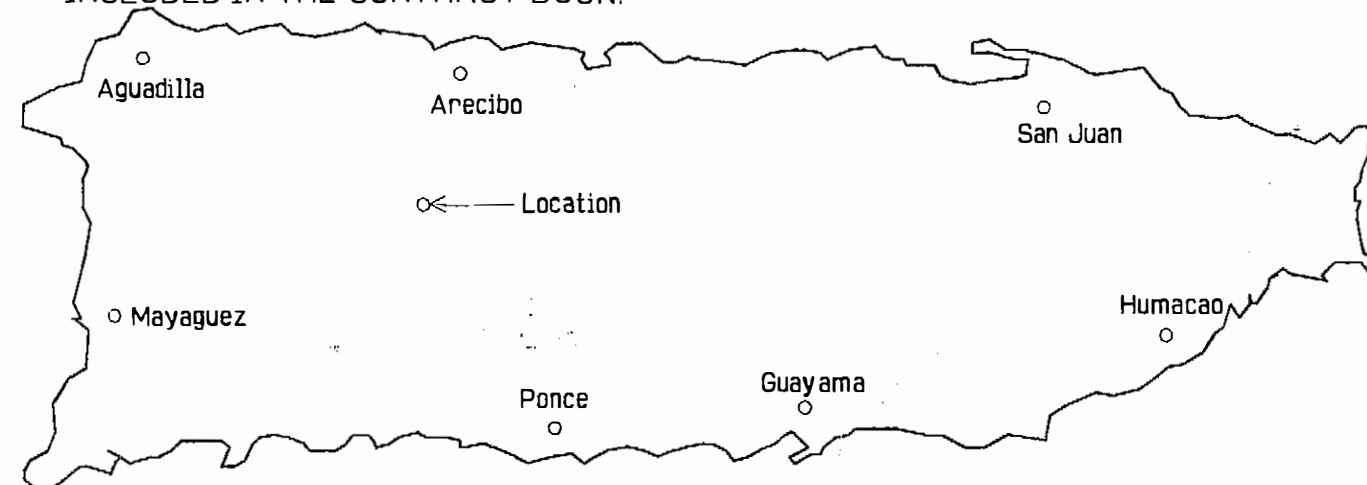
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NOTE :

"ALL WORK ON THIS PROJECT SHALL BE PERFORMED AND ALL MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND GENERAL PROVISIONS APPROVED BY THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY IN 1989 AND SUBSEQUENT AMENDMENTS IN EFFECT AT THE TIME OF BIDDING WITH THESE PLANS AND WITH ALL SPECIAL PROVISIONS AND INSTRUCTIONS INCLUDED IN THE CONTRACT BOOK."



LOCATION PLAN

SCALE: 1:20,000

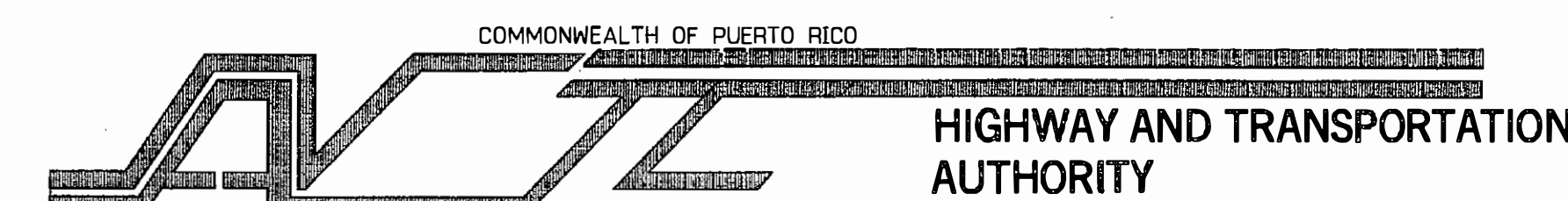
CONSTRUCTION DRAWINGS EMBARCADERO LAGO DOS BOCAS

AC CODE NUMBER AC 100030
REHABILITATION & EXPANSION OF
EXISTING FERRY & RECREATIONAL FACILITIES
MUNICIPALTY OF UTUADO / ARECIBO

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	1	181

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS

HIGHWAY AND TRANSPORTATION AUTHORITY



SUBMITTED:

ENG. ANTONIO SURO
DIRECTOR, PLANNING AREA
DATE: Jun 12/96

ENG. IRVING OCASIO DE LEON
DIRECTOR, CONSTRUCTION AREA
DATE:

ENG. EDGAR A. GUINONES
ACTING DIRECTOR,
CONTRACT ADMINISTRATION OFFICE
DATE: June 11/96

ENG. JOSE E. HERNANDEZ BORGES
DIRECTOR, DESIGN AREA
DATE: June 11, 96

RECOMMENDED:

ENG. ROBERTO SILVA DELGADO
ASSISTANT EXECUTIVE DIRECTOR
FOR TRAFFIC
DATE:

ENG. DAVID MONTAÑEZ DÍAZ
ASSISTANT EXECUTIVE DIRECTOR
FOR INFRASTRUCTURE
DATE: June 12, 96

APPROVED:

DR. SERGIO L. GONZALEZ QUEVEDO
EXECUTIVE DIRECTOR
DATE:

JRC DAVIS PAGAN ARQUITECTOS

P.O. Box 3912 Old San Juan, P.R. 00902 / Tel. (809) 728-6661 Fax: 728-6615

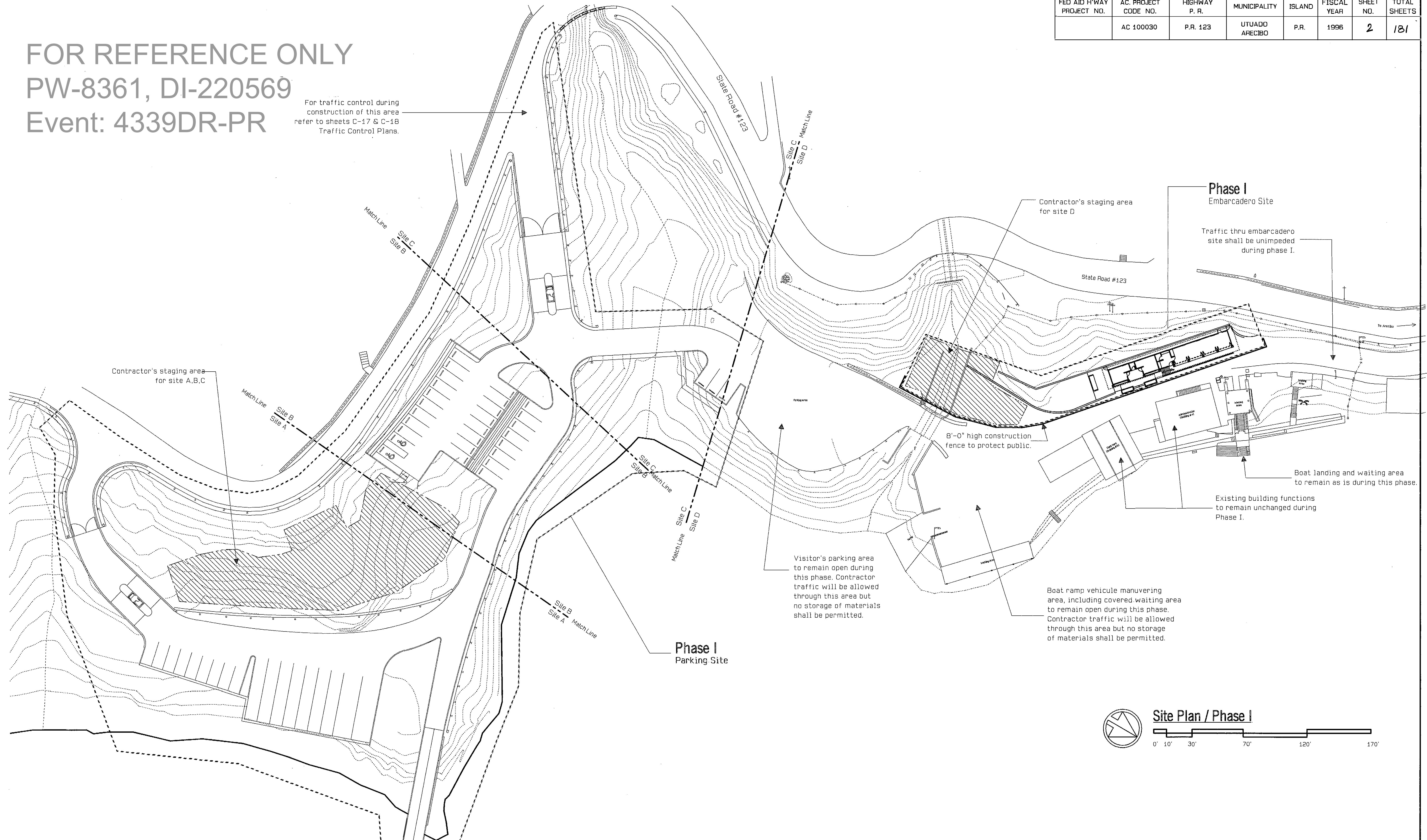
José R. Coleman - Davis Pagan

Lic. Num. 7645

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

For traffic control during
construction of this area
refer to sheets C-17 & C-18
Traffic Control Plans.

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	2	181



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

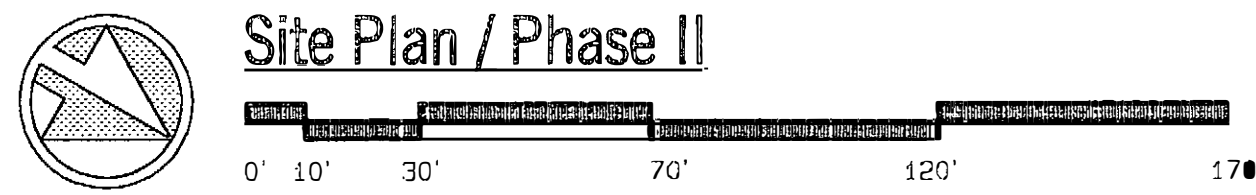
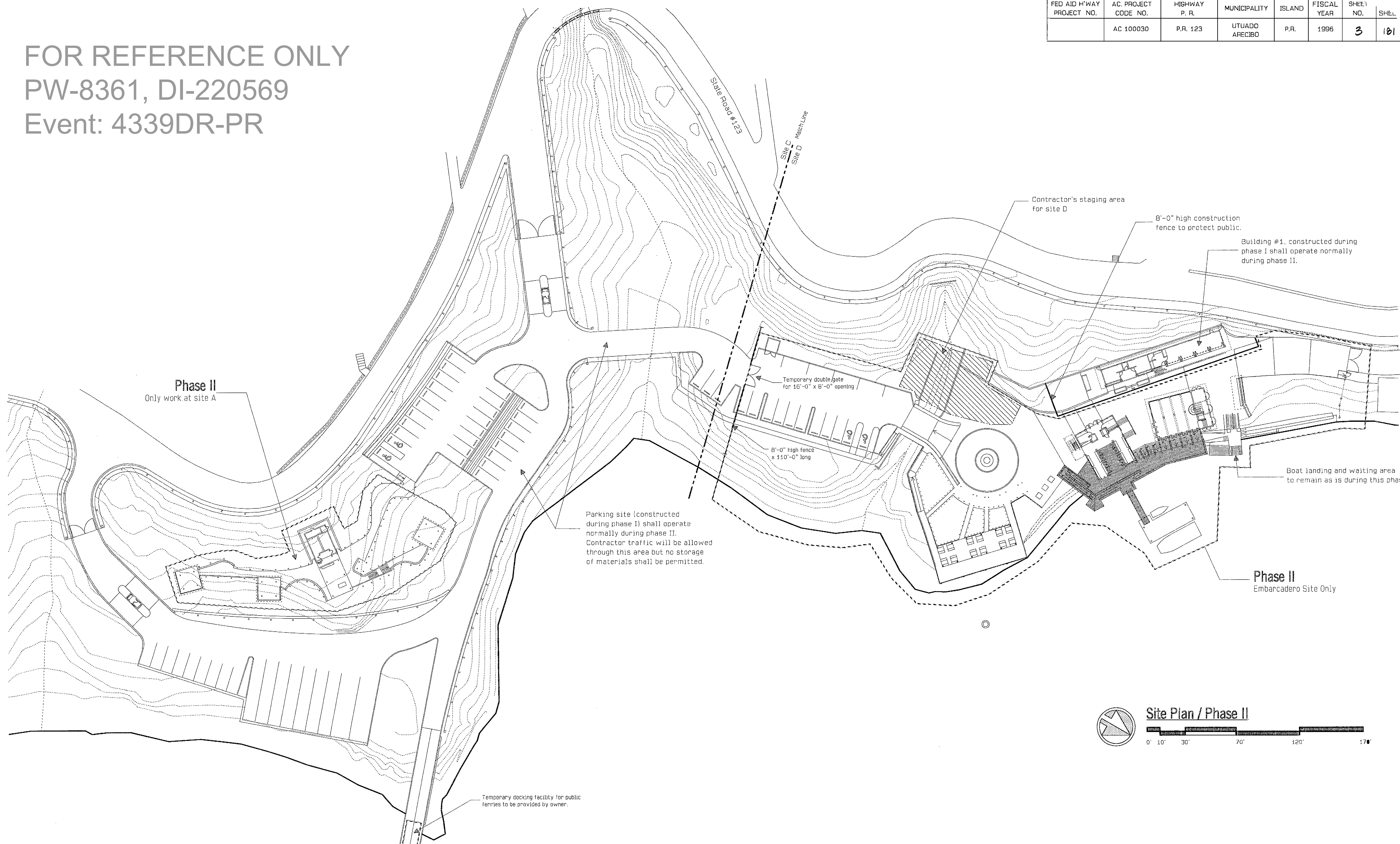
DATE REVISIONS

Project Phasing Parameters
Phase I

PP - 1

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	SHEET
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	3	101



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

Project Phasing Parameters
Phase II

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

- NOTES:
- 1- DIMENSIONS AND/OR ELEVATIONS ARE SHOWN IN METRIC SYSTEM, UNLESS OTHERWISE NOTED.
 - 2- THIS PLAN AND OTHER RELATED ONES, HAS BEEN PREPARED CONSIDERING THE INFORMATION INCLUDED IN THE SURVEY AND TOPOGRAPHIC PLANS PREPARED BY SURVEYOR EMILIO CORIANO, LIC. NO. 11326 AND DATED MARCH 14, 1995.
 - 3- NUMBER OF PARKING SPACES PROVIDED: 66
 - 4- CONTRACTOR SHALL REPAIR AND MAINTAIN IN ACCEPTABLE CONDITIONS ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT. CONTRACTOR SHALL REPAVE ANY AFFECTED AREA OF PAVEMENT WITH "A" ASPHALT TYPE IV-B

LEGEND:

- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- CONTROL STATION
- WHEEL STOP
- COORDINATE POINTS
- EXISTING STRUCTURES TO BE DEMOLISHED
- VERTEX COORDINATE POINTS

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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE: 1:250

GEOMETRICAL SITE PLAN
(PARTIAL)

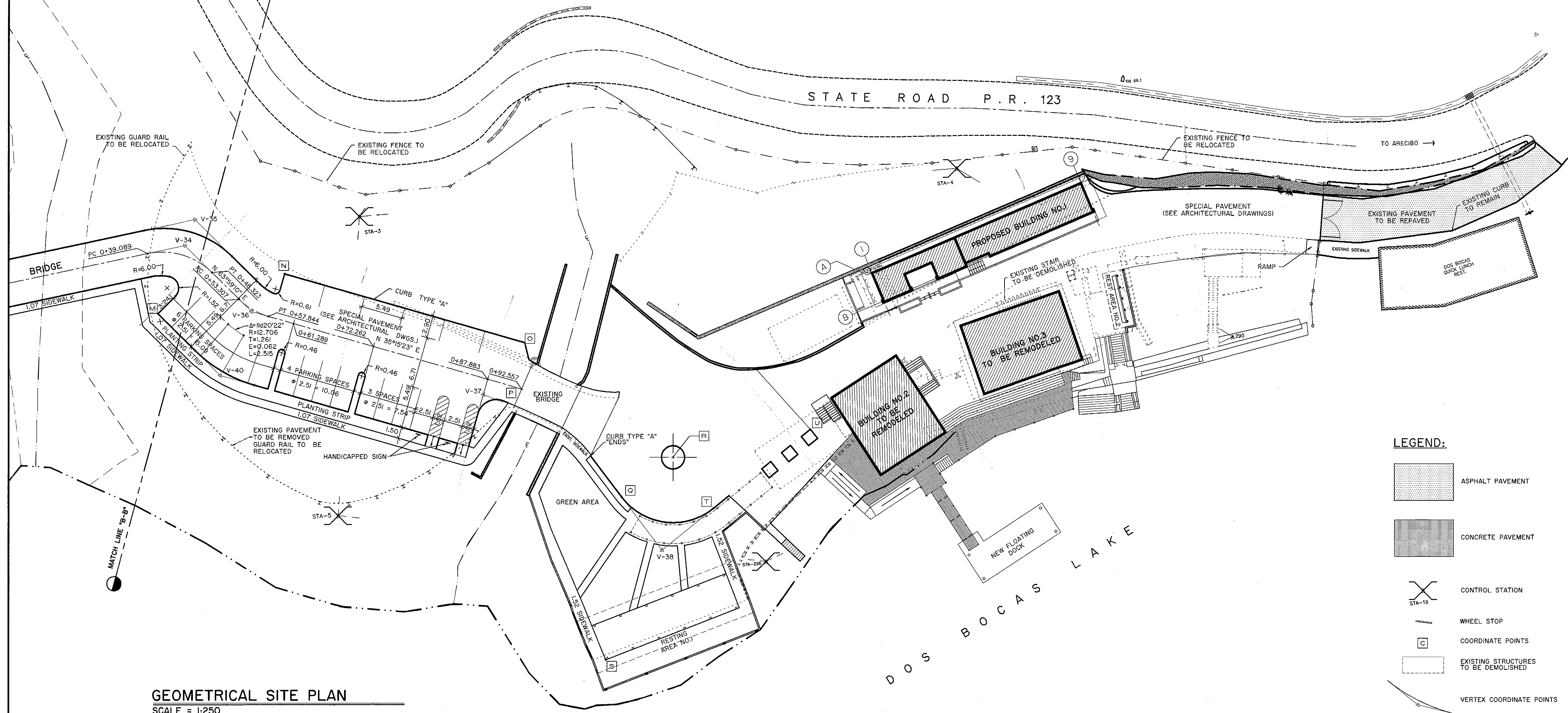
C
1

FILE NAME: UTUADO.DWG

GEOMETRICAL SITE PLAN
SCALE = 1:250

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				P.R.		6	181

FOR REFERENCE ONLY
PW-8361, DI-220369
Event: 4339DR-PR



GEOMETRICAL SITE PLAN
SCALE = 1:250

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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE: 1:250

GEOMETRICAL SITE PLAN
(PARTIAL)

C
3

FILE NAME: UTUADO.DWG

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 43391-PR

VERTEX DATA							
V-1	V-6	V-11	V-16	V-21	V-26	V-31	V-36
$\Delta=97d11^{\circ}6''$ R=12.0000 T=18.6077 E=6.1431 L=20.3544 N 55222.9341 E 127251.1104	$\Delta=27d3^{\circ}49''$ R=10.4760 T=2.5212 E=0.2991 L=4.9483 N 55216.0954 E 127277.5070	$\Delta=9d22^{\circ}19''$ R=27.9248 T=2.2889 E=0.0937 L=4.5677 N 55218.4581 E 127299.6521	$\Delta=16d39^{\circ}6''$ R=33.2332 T=4.8635 E=0.3540 L=9.5585 N 55293.2349 E 127323.7667	$\Delta=42d3^{\circ}19''$ R=12.7056 T=4.9055 E=0.9141 L=9.3629 N 55336.8712 E 127277.5500	$\Delta=92d55^{\circ}45''$ R=1.5240 T=1.6040 E=0.6885 L=2.4718 N 55316.9710 E 127266.8686	$\Delta=89d29^{\circ}52''$ R=6.0000 T=5.9476 E=2.4483 L=9.3722 N 55338.3670 E 127266.8004	$\Delta=28d43^{\circ}47''$ R=9.0480 T=2.3172 E=0.2920 L=4.5369 N 55333.3373 E 127279.9624
V-2	V-7	V-12	V-17	V-22	V-27	V-32	V-37
$\Delta=54d1^{\circ}27''$ R=12.0000 T=6.1175 E=1.4694 L=11.3148 N 55229.6890 E 127261.8470	$\Delta=27d3^{\circ}49''$ R=15.0480 T=3.6215 E=0.4297 L=7.1079 N 55213.4733 E 127282.5076	$\Delta=74d22^{\circ}19''$ R=3.5862 T=2.7207 E=0.9152 L=4.6550 N 55221.7734 E 127303.4078	$\Delta=13d45^{\circ}45''$ R=0.6096 T=1.4279 E=0.9430 L=1.4232 N 55289.2220 E 127321.8338	$\Delta=13d43^{\circ}27''$ R=2.0000 T=4.5696 E=2.9881 L=4.6329 N 55327.4503 E 127279.4209	$\Delta=47d16^{\circ}33''$ R=9.0480 T=3.9601 E=0.8287 L=7.4657 N 55319.0995 E 127261.2177	$\Delta=15d14^{\circ}11''$ R=0.7620 T=2.9717 E=2.3059 L=2.0114 N 55335.9868 E 127213.8646	$\Delta=95d40^{\circ}33''$ R=2.5000 T=2.7608 E=1.2245 L=4.1746 N 55408.5605 E 127300.3351
V-3	V-8	V-13	V-18	V-23	V-28	V-33	V-38
$\Delta=88d40^{\circ}7''$ R=9.0000 T=8.7933 E=3.5826 L=13.9280 N 55214.8692 E 127263.4914	$\Delta=27d3^{\circ}49''$ R=18.7056 T=4.5018 E=0.5341 L=8.8355 N 55210.8511 E 127287.5083	$\Delta=13d30^{\circ}19''$ R=59.1188 T=7.0000 E=0.4130 L=13.9351 N 55238.6806 E 127308.9069	$\Delta=10d55^{\circ}25''$ R=184.0369 T=17.5969 E=0.8394 L=35.0872 N 55291.2858 E 127322.8171	$\Delta=85d27^{\circ}59''$ R=1.5240 T=1.4079 E=0.5508 L=2.2733 N 55313.0647 E 127262.1896	$\Delta=47d16^{\circ}33''$ R=12.0960 T=5.2942 E=1.1078 L=9.9807 N 55318.1702 E 127258.0230	$\Delta=28d37^{\circ}24''$ R=15.0000 T=3.8267 E=0.4804 L=7.4936 N 55347.2207 E 127198.4085	$\Delta=91d32^{\circ}33''$ R=8.5344 T=8.7673 E=3.7009 L=13.6356 N 55424.0354 E 127327.3673
V-4	V-9	V-14	V-19	V-24	V-29	V-34	V-39
$\Delta=52d41^{\circ}34''$ R=12.0480 T=5.9666 E=1.3965 L=11.0801 N 55212.0792 E 127266.5729	$\Delta=25d0^{\circ}0''$ R=18.1712 T=4.0285 E=0.4412 L=7.9287 N 55229.9446 E 127299.6157	$\Delta=72d38^{\circ}16''$ R=30.1852 T=22.1896 E=7.2778 L=38.2679 N 55288.5357 E 127326.4941	$\Delta=13d21^{\circ}0''$ R=42.7239 T=5.0000 E=2.4853 L=9.9547 N 55313.5491 E 127293.0498	$\Delta=90d0^{\circ}0''$ R=6.0000 T=6.0000 E=2.4853 L=9.4248 N 55329.2483 E 127265.6130	$\Delta=90d0^{\circ}0''$ R=6.0000 T=6.0000 E=2.4853 L=9.4248 N 55330.0354 E 127259.5680	$\Delta=56d34^{\circ}11''$ R=9.3528 T=5.0325 E=1.2680 L=9.2338 N 55377.9279 E 127268.8782	$\Delta=11d8^{\circ}30''$ R=180.9889 T=17.6532 E=0.8589 L=35.1952 N 55291.2845 E 127327.9078
V-5	V-10	V-15	V-20	V-25	V-30	V-35	V-40
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MAIN COORDINATE POINTS					
PT.	COORDINATES	PT.	COORDINATES	PT.	COORDINATES
A	N 55224.4694 E 127255.2957	I	N 55292.6616 E 127283.2893	Q	N 55421.3180 E 127319.0317
B	N 55217.9647 E 127309.2870	J	N 55309.4004 E 127257.8003	R	N 55429.4322 E 127316.3865
C	N 55240.7312 E 127324.0359	K	N 55334.1756 E 127263.1809	S	N 55412.2664 E 127338.1257
D	N 55238.4359 E 127328.7694	L	N 55341.5917 E 127206.2291	T	N 55432.2948 E 127324.4265
E	N 55265.8615 E 127342.0687	M	N 55371.6307 E 127276.1287	U	N 55447.7354 E 127318.9289
F	N 55281.5844 E 127342.8232	N	N 55389.0911 E 127276.7510		
G	N 55301.8251 E 127308.7255	O	N 55415.9716 E 127295.7527		
H	N 55285.8269 E 127277.4806	P	N 55413.5757 E 127301.3378		

BUILDING NO.3 COORDINATES		
PT.	COORDINATES	
A 1	N 55462.1785 E 127302.3355	
B 1	N 55462.4313 E 127306.2899	
A 9	N 55492.0642 E 127300.4254	
B 9	N 55492.3170 E 127304.3797	

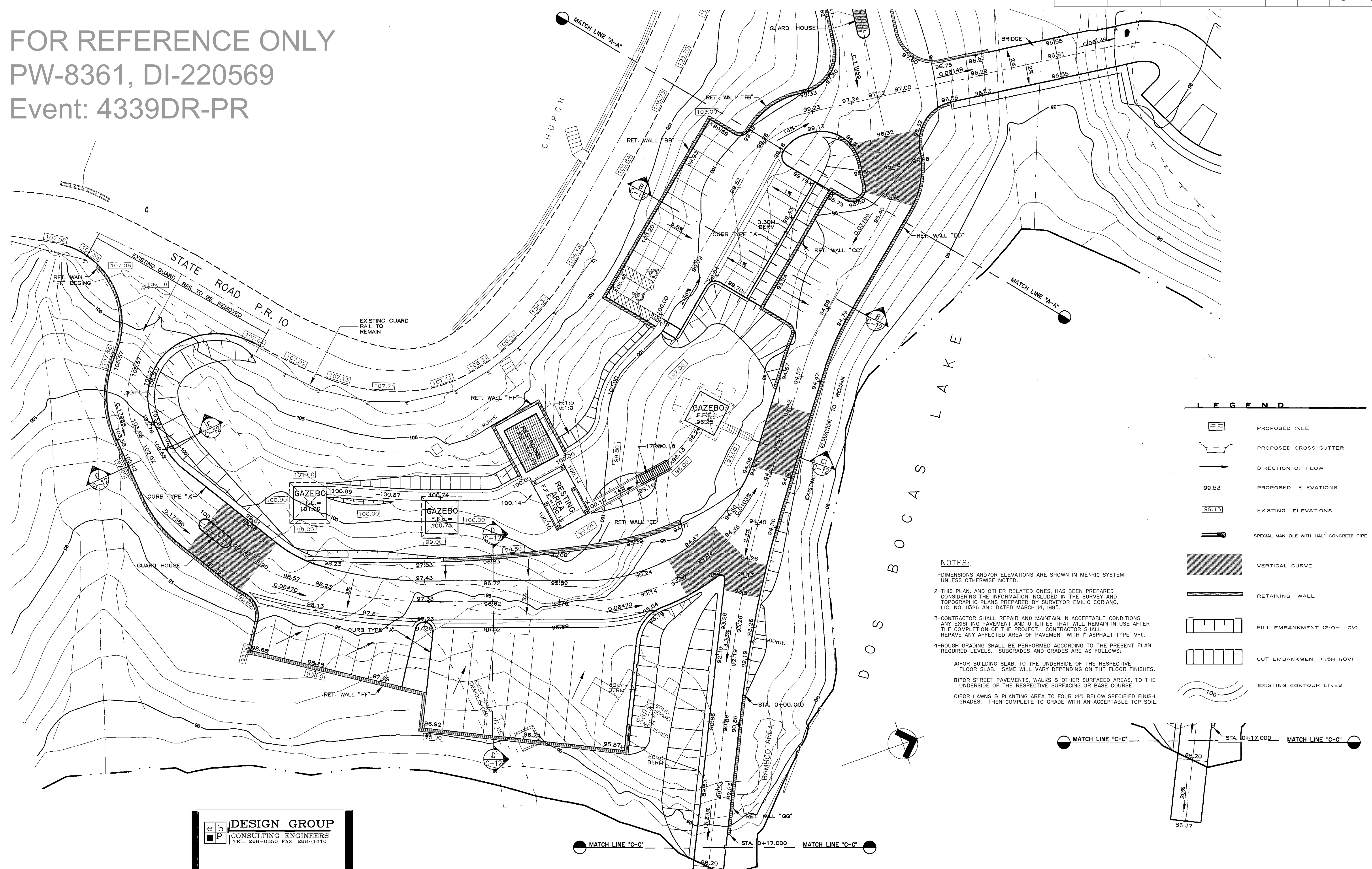
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ENRIQUE BLANES PALMER
CIVIL ENGINEER LIC. NO. 6416

DATE	REVISIONS

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	8	181

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



LEGEND

- PROPOSED INLET
- PROPOSED CROSS GUTTER
- DIRECTION OF FLOW
- PROPOSED ELEVATIONS
- EXISTING ELEVATIONS
- SPECIAL MANHOLE WITH HALF CONCRETE PIPE
- VERTICAL CURVE
- RETAINING WALL
- FILL EMBANKMENT (2:0H 1:0V)
- CUT EMBANKMENT (1:5H 1:0V)
- EXISTING CONTOUR LINES

NOTES:

1-DIMENSIONS AND/OR ELEVATIONS ARE SHOWN IN METRIC SYSTEM UNLESS OTHERWISE NOTED.

2-THIS PLAN, AND OTHER RELATED ONES, HAS BEEN PREPARED CONSIDERING THE INFORMATION INCLUDED IN THE SURVEY AND TOPOGRAPHIC PLANS PREPARED BY SURVEYOR EMILIO CORIANO, L.C. NO. 11326 AND DATED MARCH 14, 1995.

3-CONTRACTOR SHALL REPAIR AND MAINTAIN IN ACCEPTABLE CONDITIONS ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT. CONTRACTOR SHALL REPAVE ANY AFFECTED AREA OF PAVEMENT WITH 1" ASPHALT TYPE IV-B.

4-ROUGH GRADING SHALL BE PERFORMED ACCORDING TO THE PRESENT PLAN REQUIRED LEVELS. SUBGRADES AND GRADES ARE AS FOLLOWS:

A)FOR BUILDING SLAB, TO THE UNDERSIDE OF THE RESPECTIVE FLOOR SLAB. SAME WILL VARY DEPENDING ON THE FLOOR FINISHES.

B)FOR STREET PAVEMENTS, WALKS & OTHER SURFACED AREAS, TO THE UNDERSIDE OF THE RESPECTIVE SURFACING OR BASE COURSE.




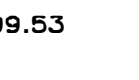
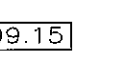

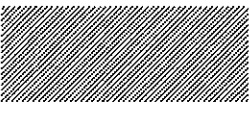

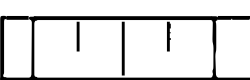
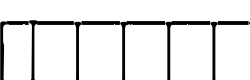

C)FOR LAWNS & PLANTING AREA TO FOUR (4") BELOW SPECIFIED FINISH GRADES. THEN COMPLETE TO GRADE WITH AN ACCEPTABLE TOP SOIL.

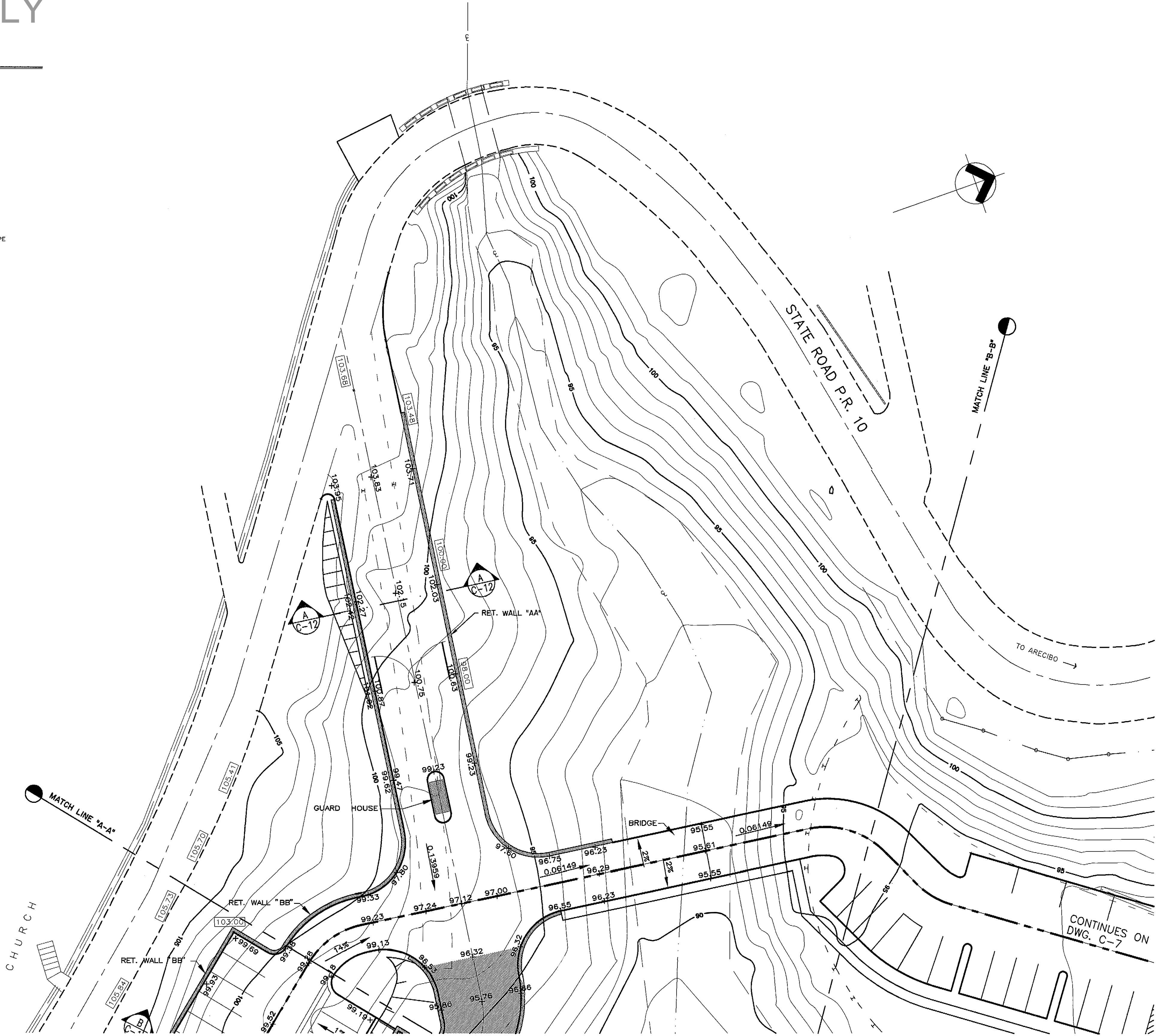
DESIGN GROUP
CONSULTING ENGINEERS
TEL. 268-0590 FAX. 268-1410

ENRIQUE BLANES PALMER
CIVIL ENGINEER L.C. 8418

FED. AID HWY. PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	9	181

FOR REFERENCE ONLY
PW-8361, DL-220569
Event: 4335DR-PR

-  PROPOSED INLET
 PROPOSED CROSS GUTTER
 DIRECTION OF FLOW
 PROPOSED ELEVATIONS
 EXISTING ELEVATIONS
 SPECIAL MANHOLE WITH HALF CONCRETE PIPE
 VERTICAL CURVE
 RETAINING WALL
 FILL EMBANKMENT (2:1H 1:1V)
 CUT EMBANKMENT (1:1H 1:1V)
 EXISTING CONTOUR LINES



e

b

DESIGN GROUP
CONSULTING ENGINEERS
TEL. 268-0550 FAX. 268-1410

ENRIQUE BLANES PALMER
CIVIL ENGINEER IJC. 6416

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN, PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE: 1:250

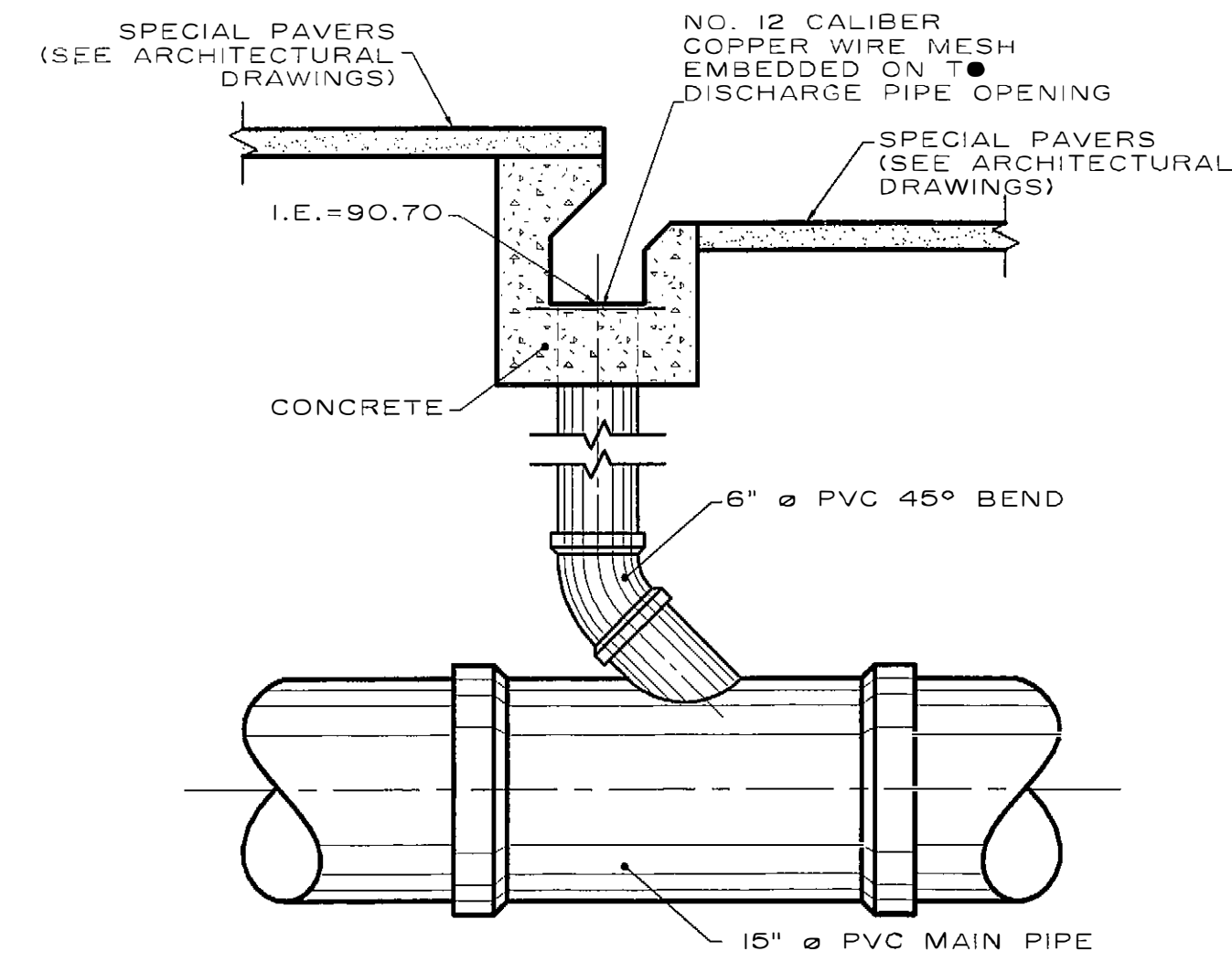
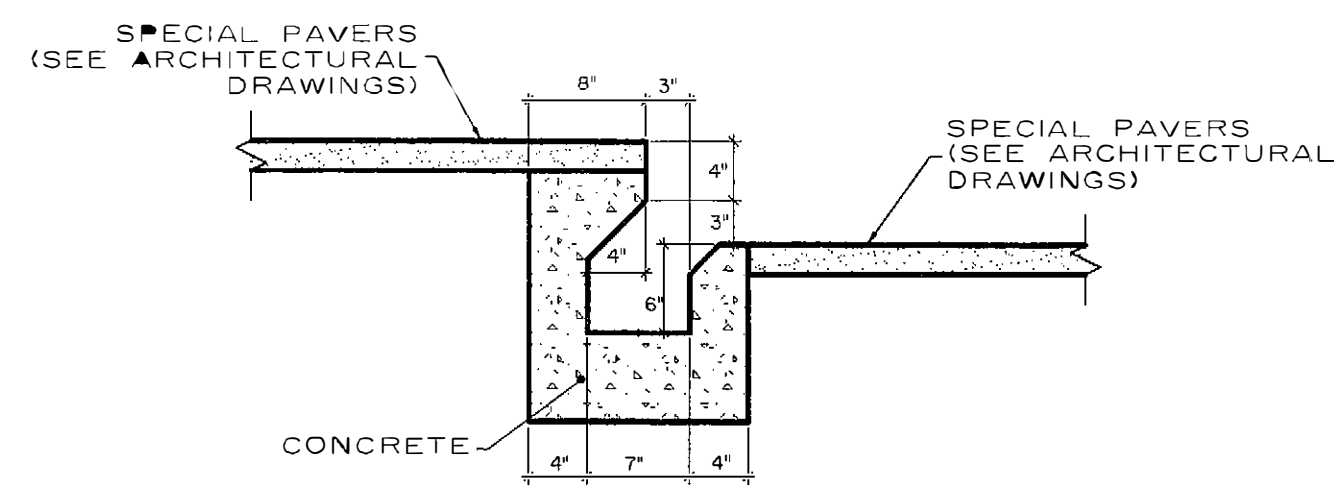
EXISTING TOPOGRAPHY & GRADING PLAN
(PARTIAL)

C
6

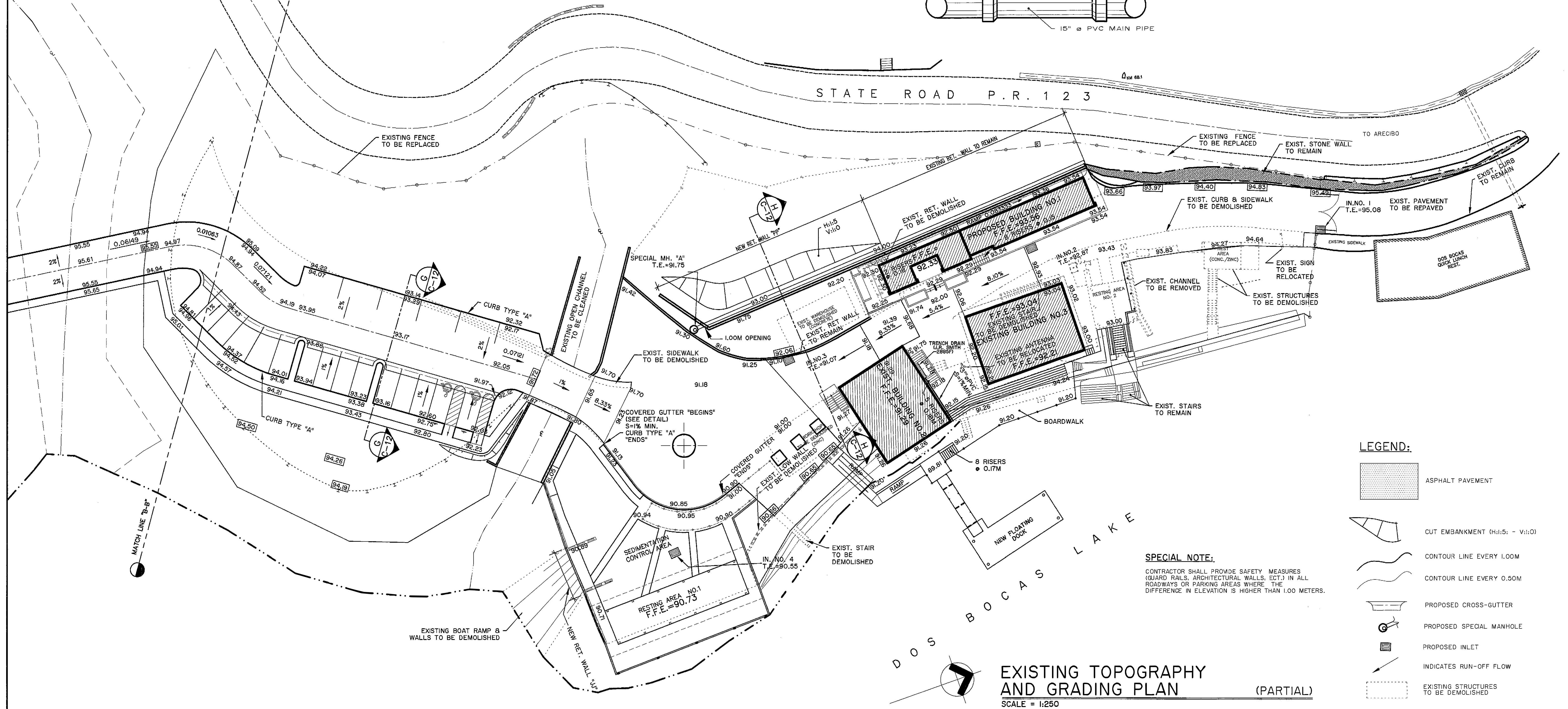
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FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED. AID. H.WAY PROJECT NO.	AC. PROJECT CODE NO.	ROADWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	10	181



COVERED GUTTER DETAIL
SCALE = 1" = 1'-0"



LEGEND:

- ASPHALT PAVEMENT
- CUT EMBANKMENT (H:1.5 - V:1.0)
- CONTOUR LINE EVERY 1.00M
- CONTOUR LINE EVERY 0.50M
- PROPOSED CROSS-GUTTER
- PROPOSED SPECIAL MANHOLE
- PROPOSED INLET
- INDICATES RUN-OFF FLOW
- EXISTING STRUCTURES TO BE DEMOLISHED
- PROPOSED 18" Ø HALF CONCRETE PIPE
- PROPOSED ELEVATION
- EXISTING ELEVATION

SPECIAL NOTE:

CONTRACTOR SHALL PROVIDE SAFETY MEASURES (GUARD RAILS, ARCHITECTURAL WALLS, ETC.) IN ALL ROADWAYS OR PARKING AREAS WHERE THE DIFFERENCE IN ELEVATION IS HIGHER THAN 1.00 METERS.

EXISTING TOPOGRAPHY AND GRADING PLAN (PARTIAL)
SCALE = 1:250

DESIGN GROUP
CONSULTING ENGINEERS
TEL. 268-0550 FAX 268-1410

ENRIQUE PLANES PALMER
CIVIL ENGINEER LIC. NO. 6416

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN, PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE: 1:250

EXISTING TOPOGRAPHY AND GRADING PLAN (PARTIAL)

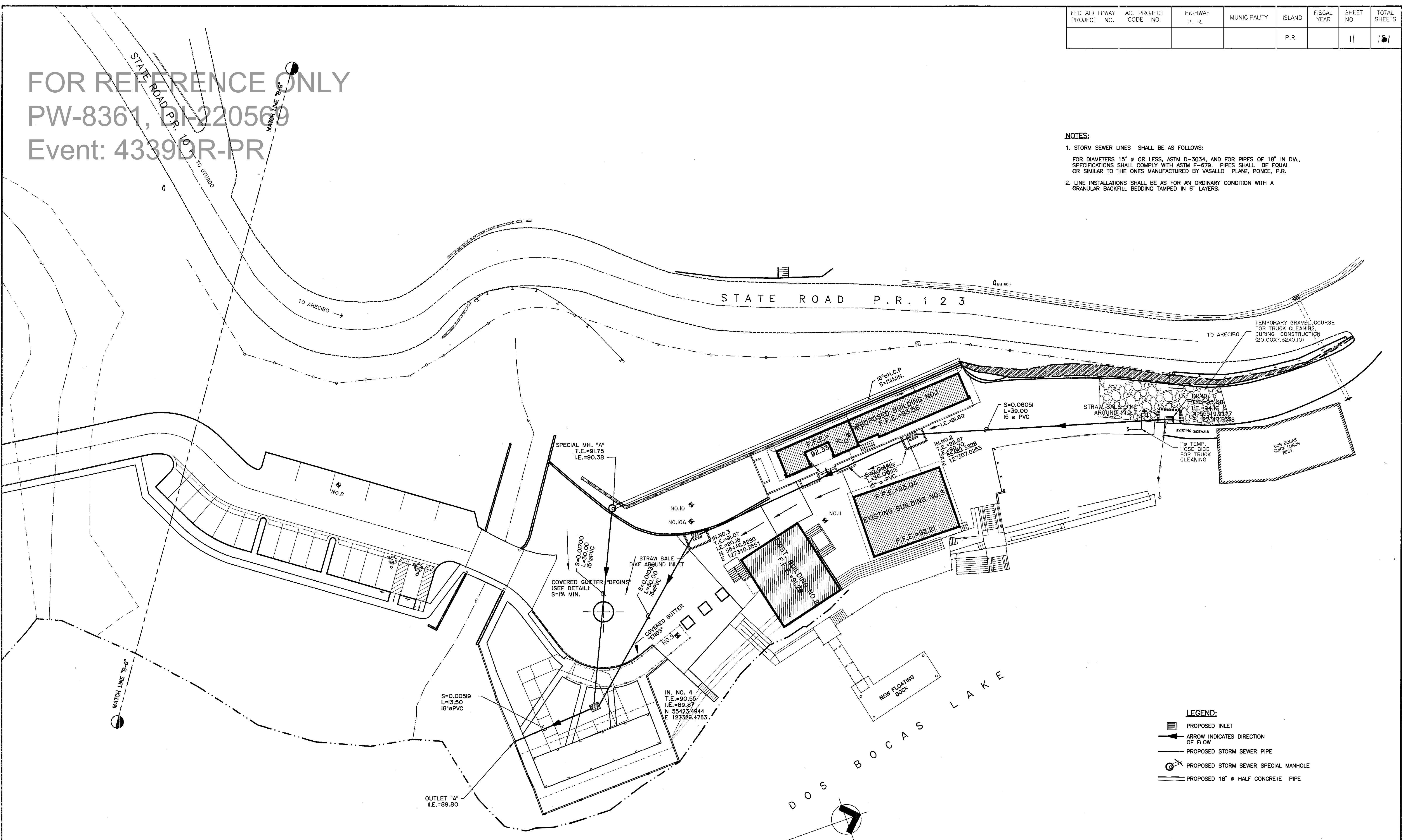
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FILE NAME: L2BGR007.DWG

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				P.R.		11	181

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

- NOTES:
1. STORM SEWER LINES SHALL BE AS FOLLOWS:
FOR DIAMETERS 15" & OR LESS, ASTM D-3034, AND FOR PIPES OF 18" IN DIA., SPECIFICATIONS SHALL COMPLY WITH ASTM F-679. PIPES SHALL BE EQUAL OR SIMILAR TO THE ONES MANUFACTURED BY VASALLO PLANT, PONCE, P.R.
 2. LINE INSTALLATIONS SHALL BE AS FOR AN ORDINARY CONDITION WITH A GRANULAR BACKFILL BEDDING TAMPED IN 6" LAYERS.



- LEGEND:
- PROPOSED INLET
 - ARROW INDICATES DIRECTION OF FLOW
 - PROPOSED STORM SEWER PIPE
 - PROPOSED STORM SEWER SPECIAL MANHOLE
 - PROPOSED 18" & HALF CONCRETE PIPE

STORM SEWER SYSTEM LAYOUT
SCALE = 1:250

DESIGN GROUP
CONSULTING ENGINEERS
TEL. 268-0550 FAX 268-1410

ENRIQUE BLANES PALMER
CIVIL ENGINEER LIC. NO. 6410

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN, PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

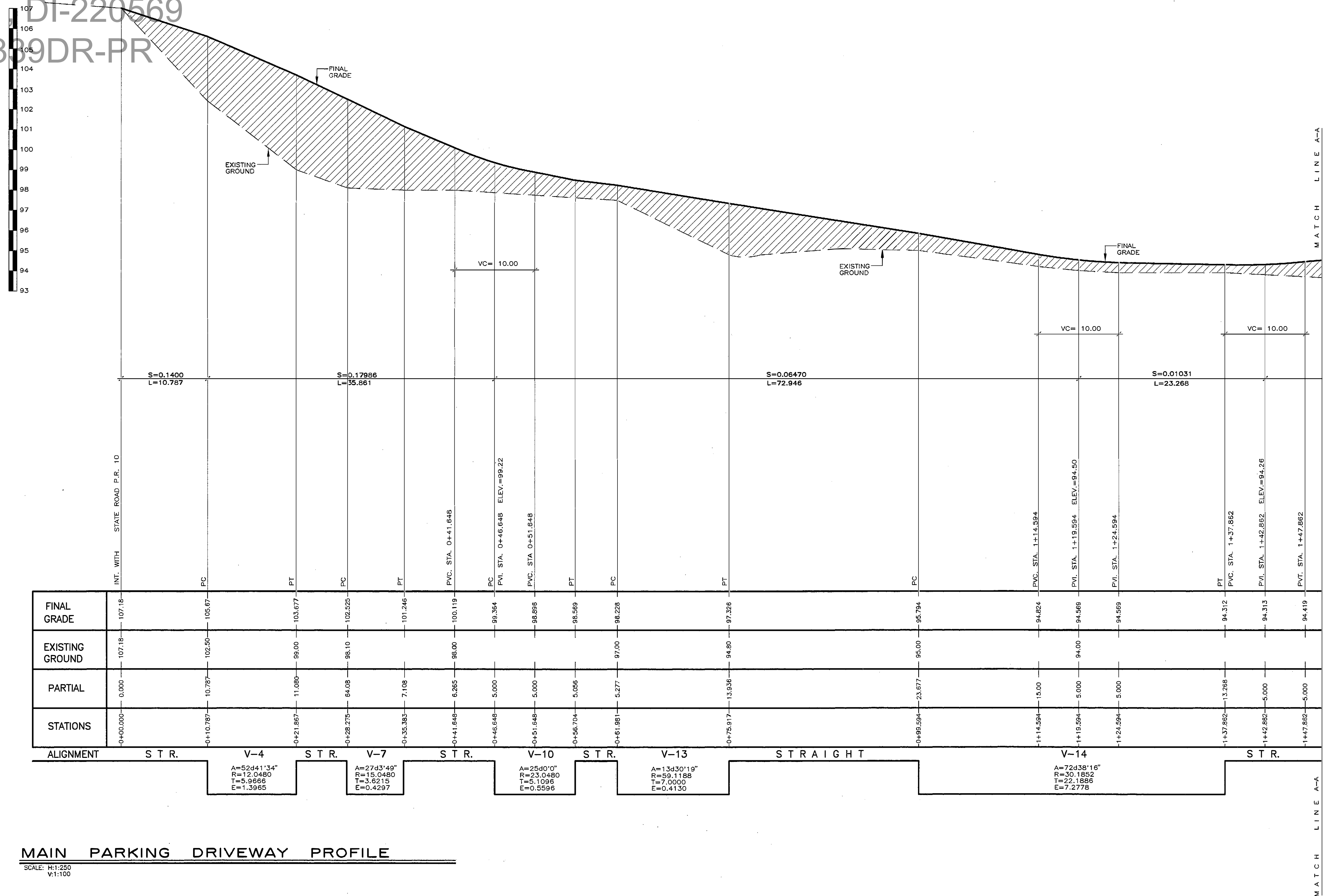
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STORM SEWER SYSTEM LAYOUT PLAN
(PARTIAL)

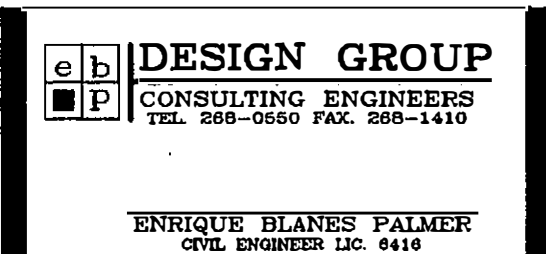
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FILE NAME: L2BGR07.DWG

FOR REFERENCE ONLY
PW-8361 DI-220569
Event: 4339DR-PR



MAIN PARKING DRIVEWAY PROFILE



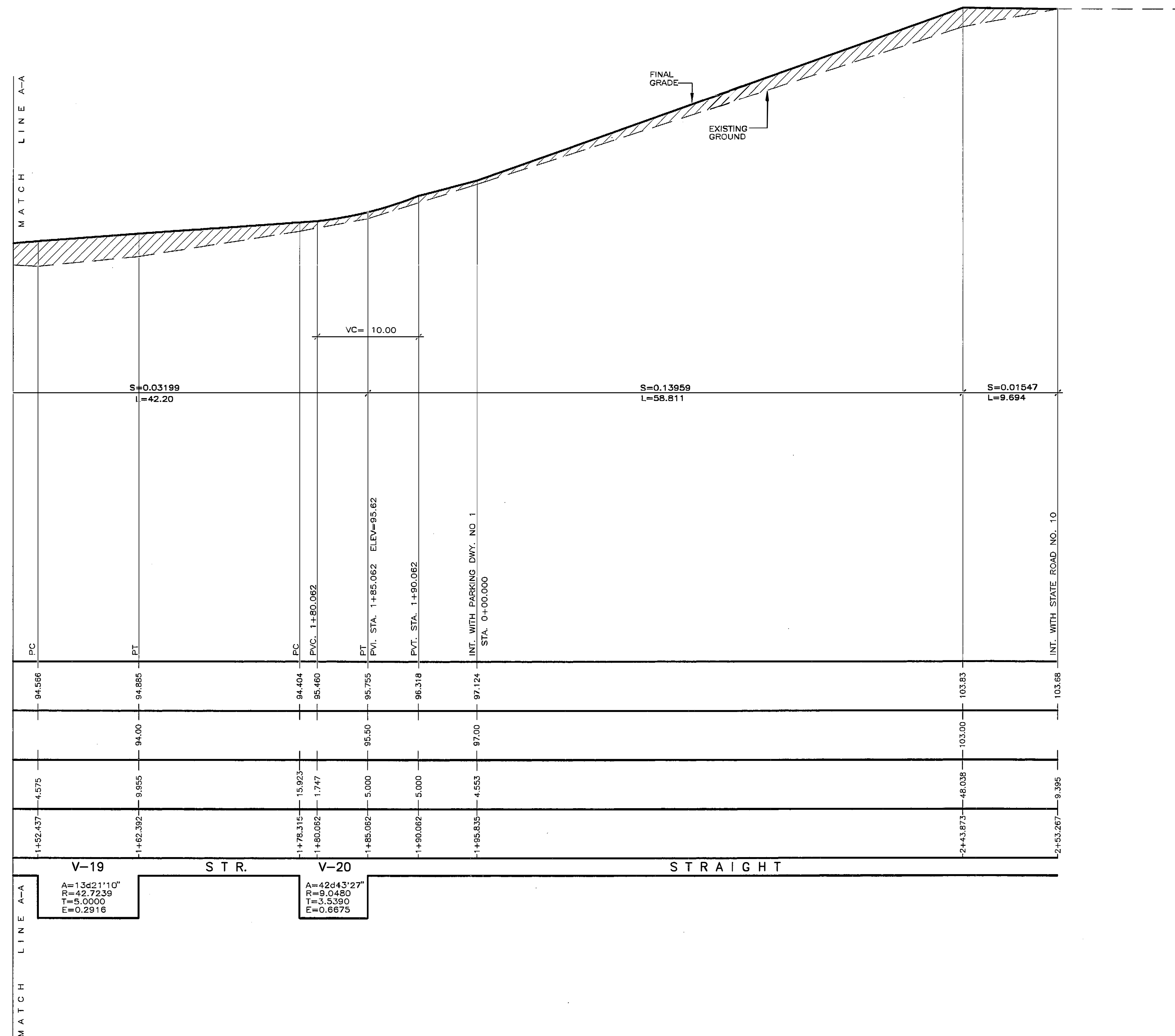
DATE	REVISIONS

SCALE: 1:250

STREET PROFILE

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				P.R.		13	181

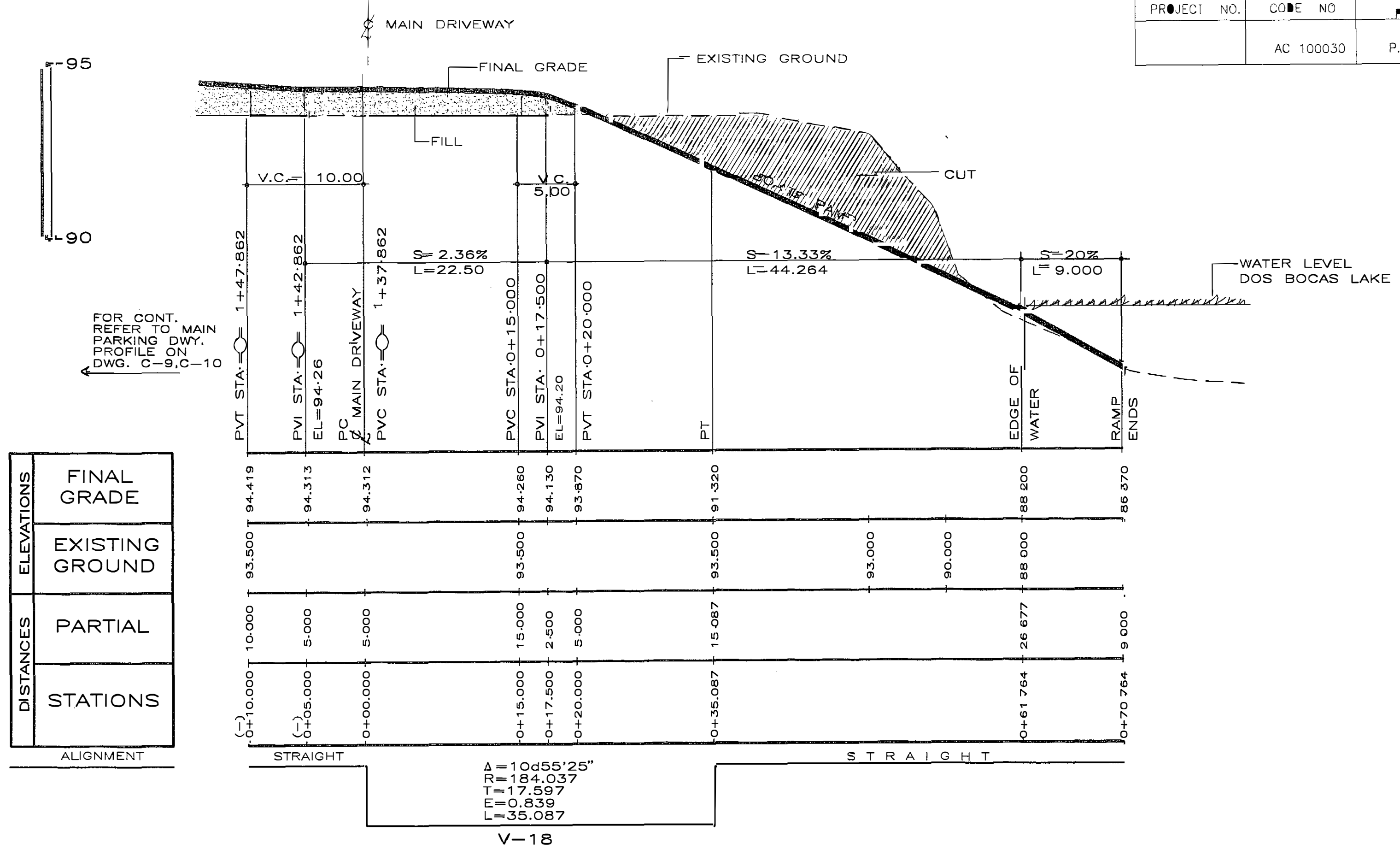


MAIN PARKING DRIVEWAY PROFILE (CONT.)

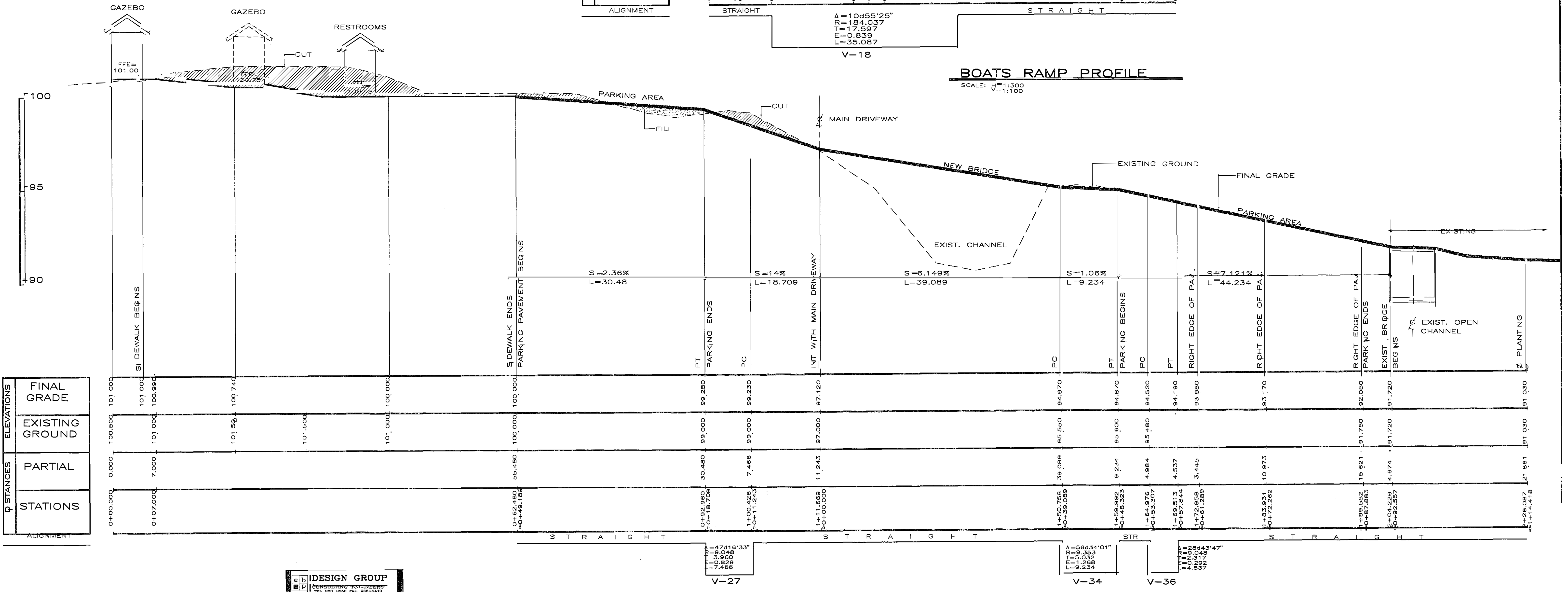
SCALE: H:1:250
V:1:100

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED. AID HIGHWAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FILE NO.	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	14	181



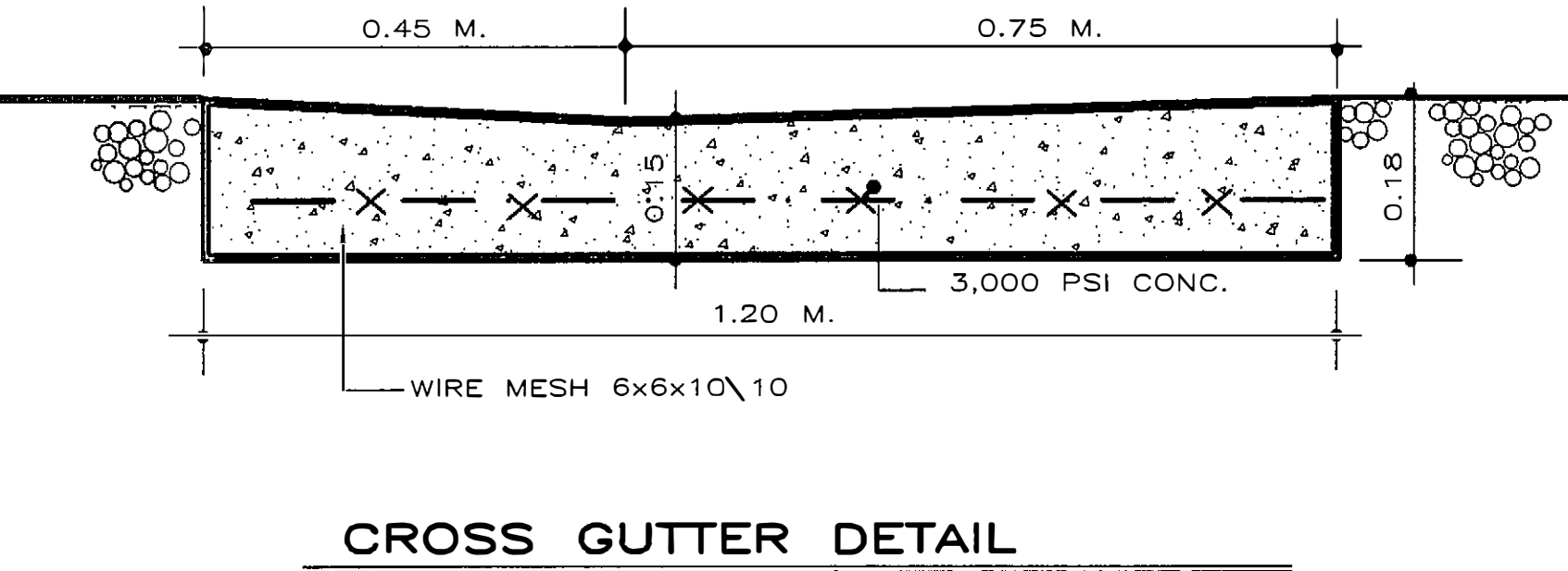
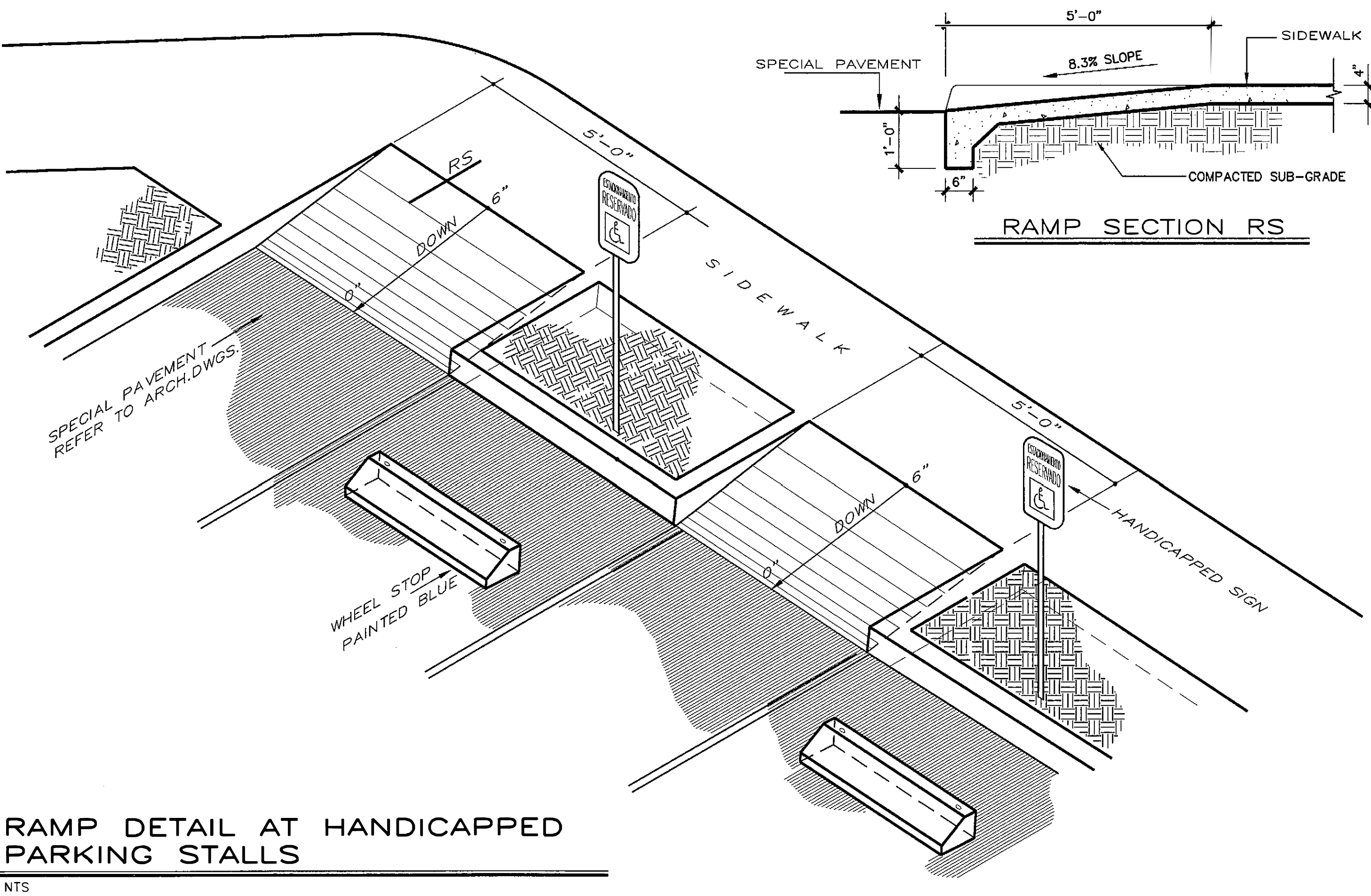
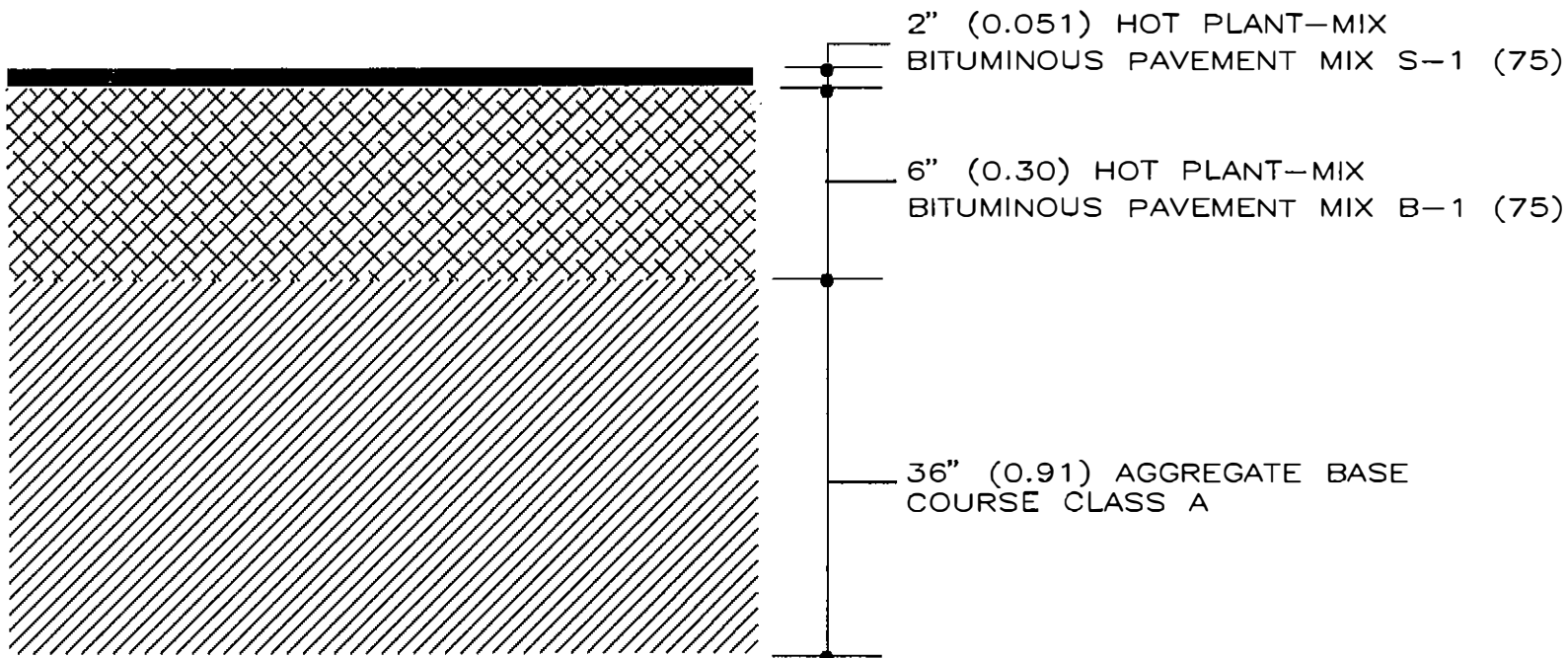
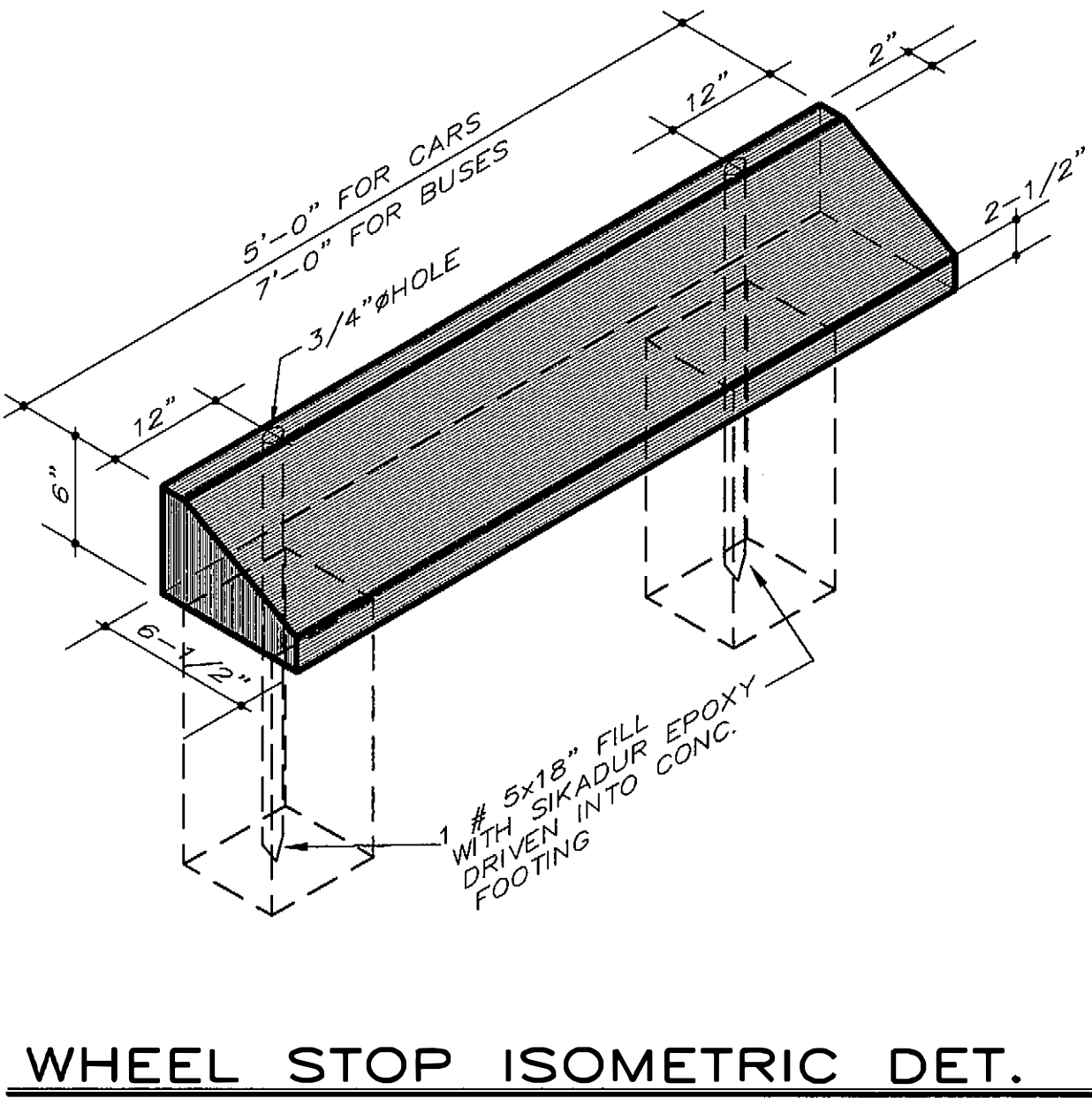
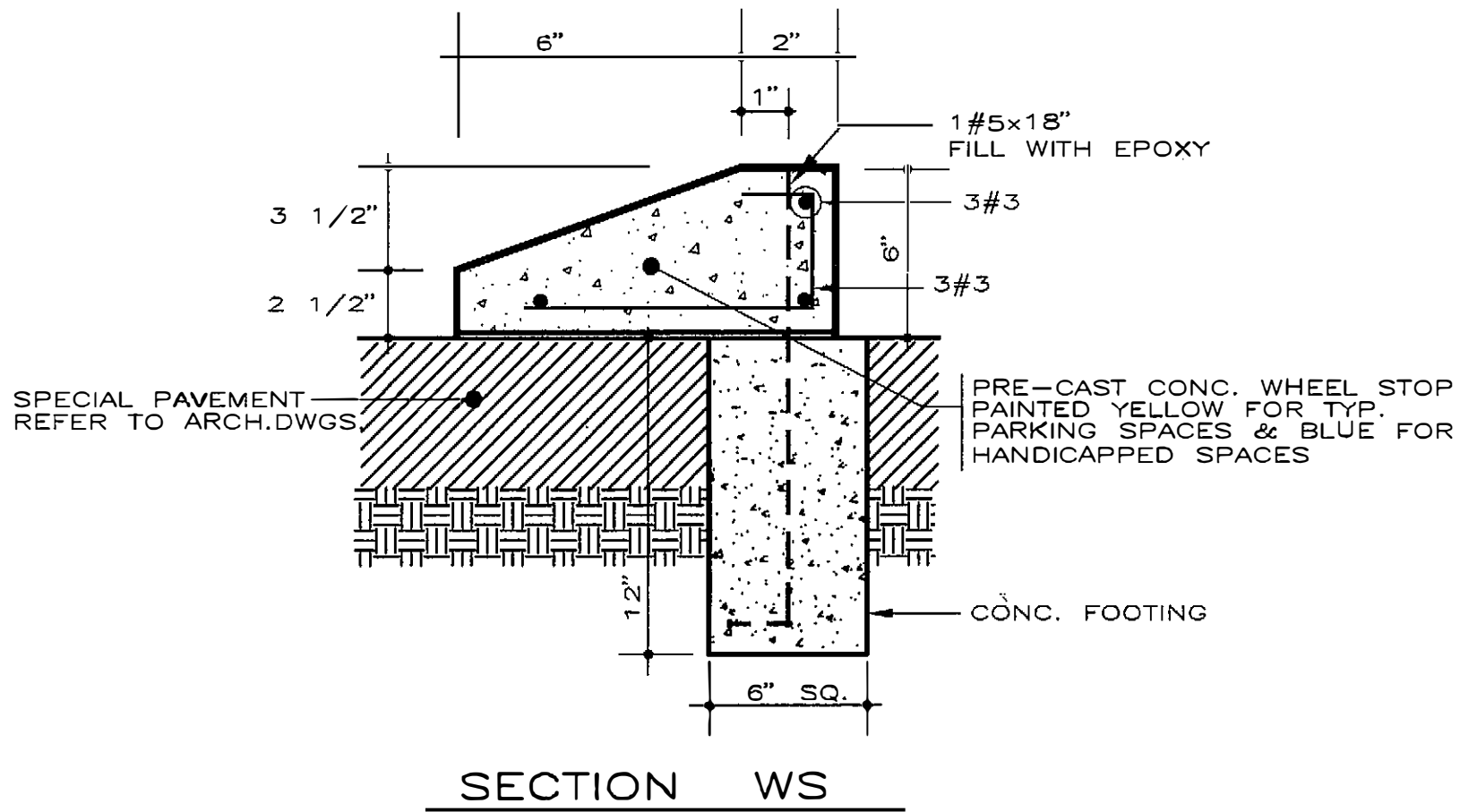
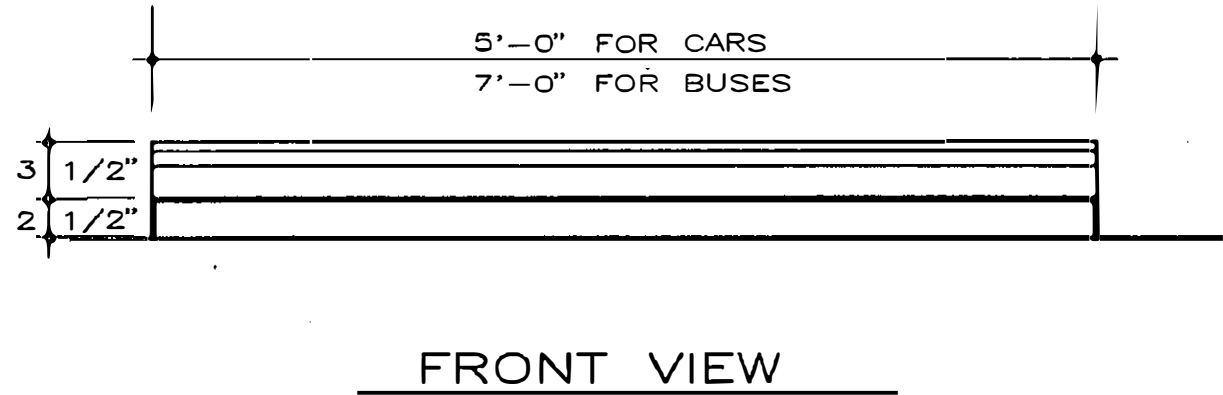
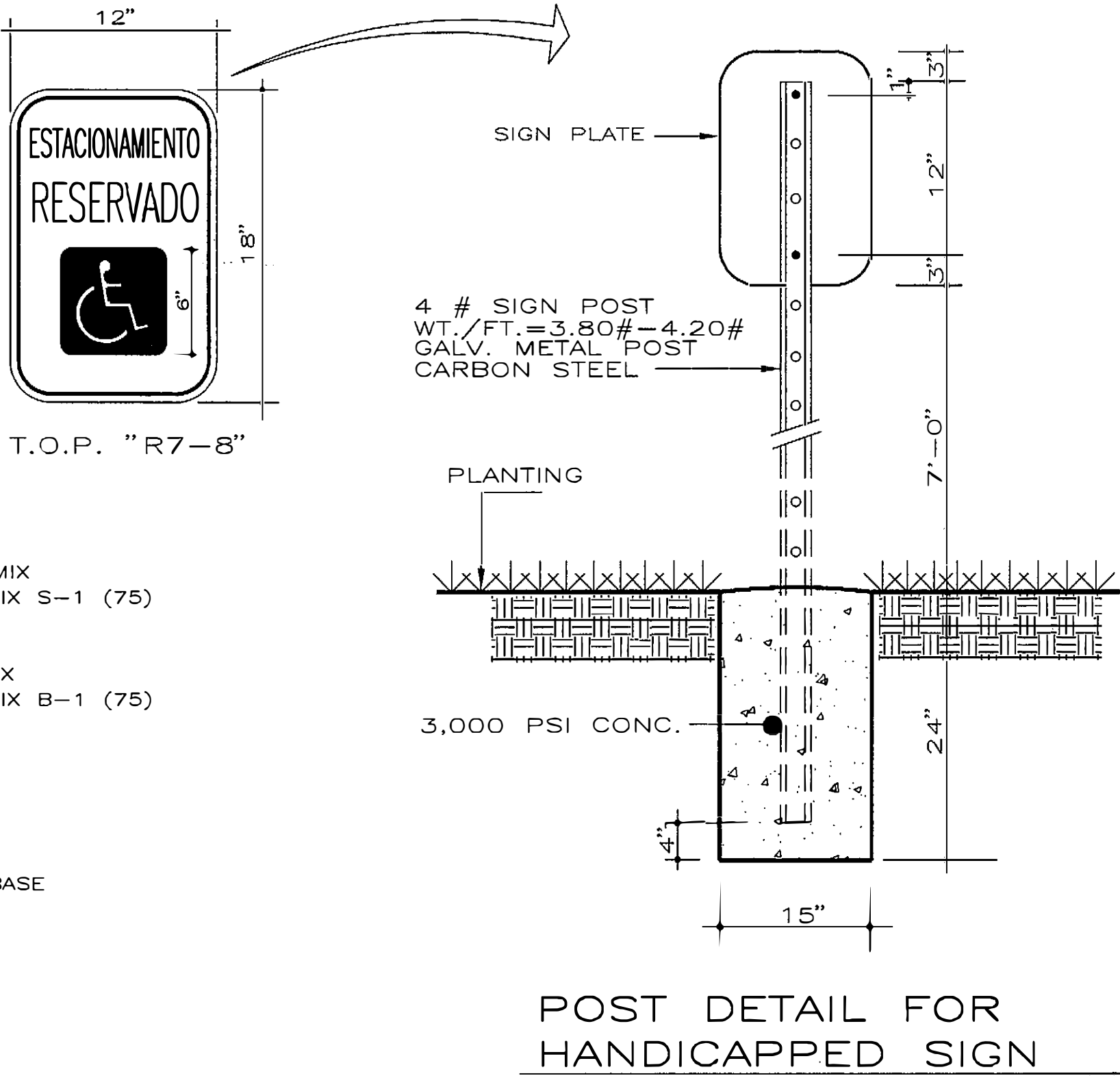
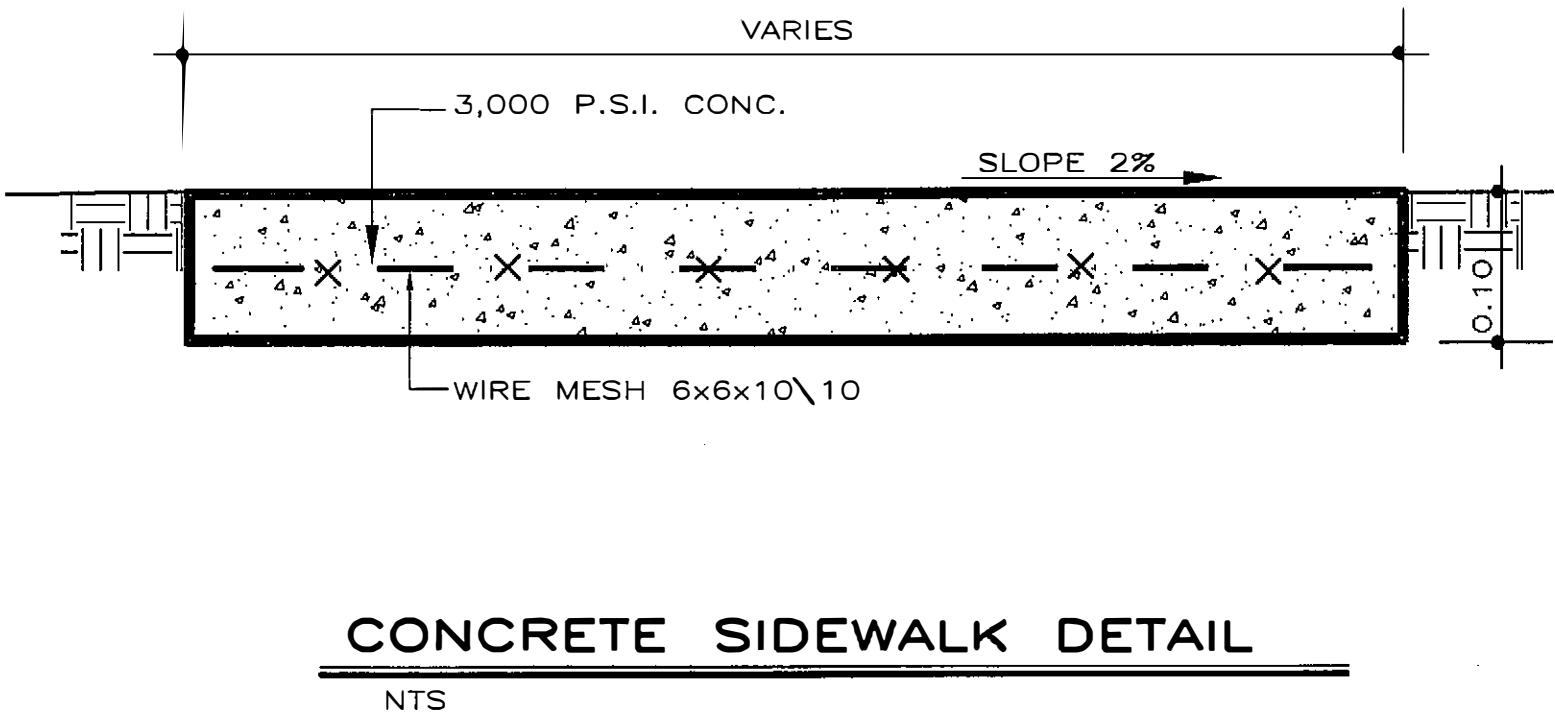
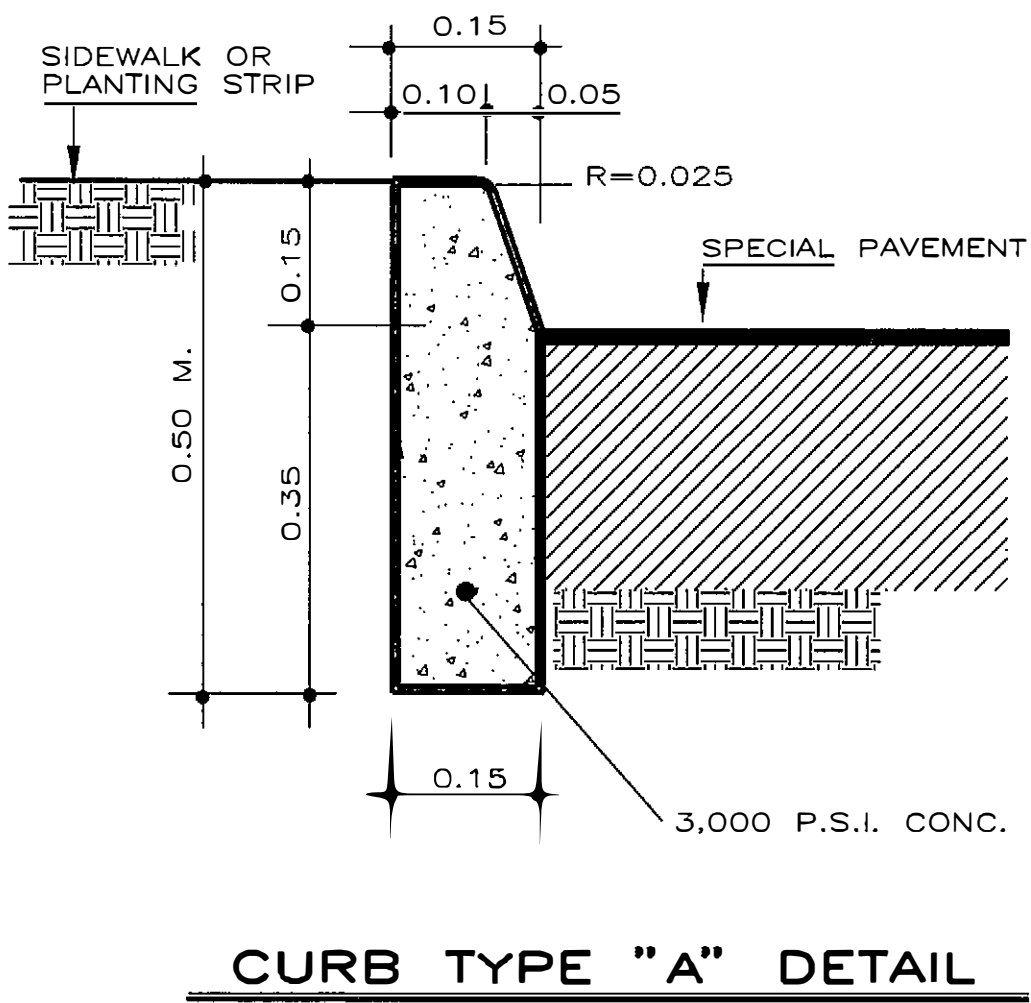
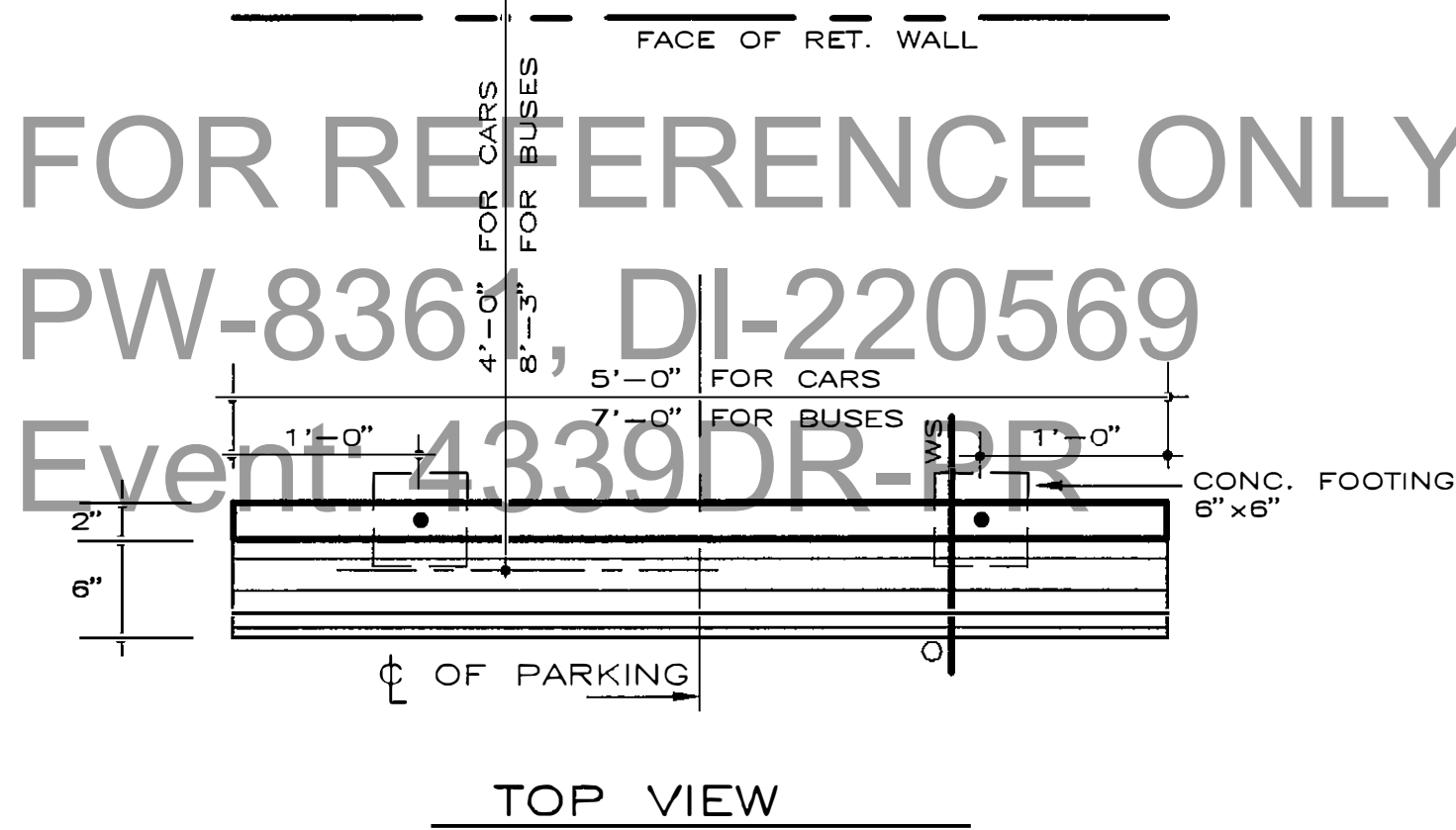
BOATS RAMP PROFILE
SCALE: H=1:300
V=1:100



SECONDARY PARKING DRIVEWAY PROFILE
SCALE: H=1:300
V=1:100

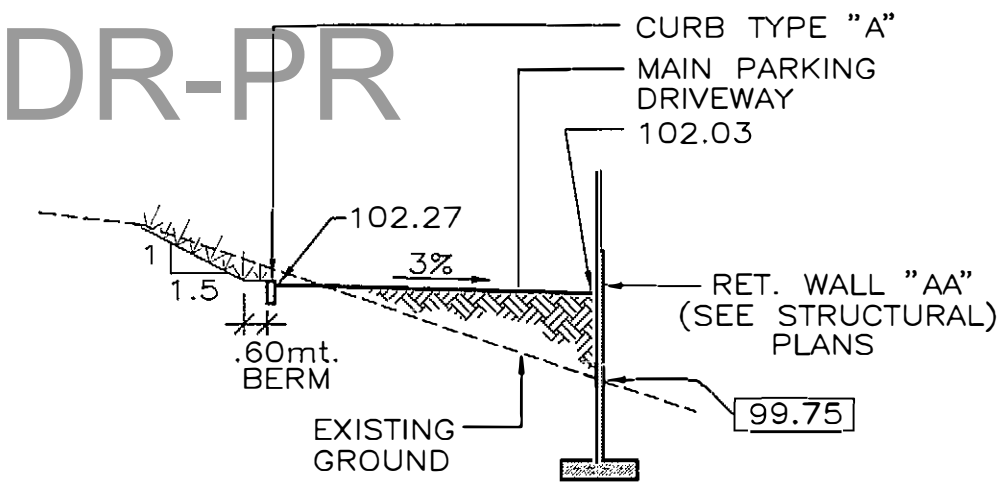
DESIGN GROUP
CONSULTING ARCHITECTS
ENRIQUE BLANES-PALMER
C/O. BORRERO JR. 648

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MU NCIPALITY	ISLA ND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	PR 123	UTUADO/ARECIBO	P.R.	1995	15	181

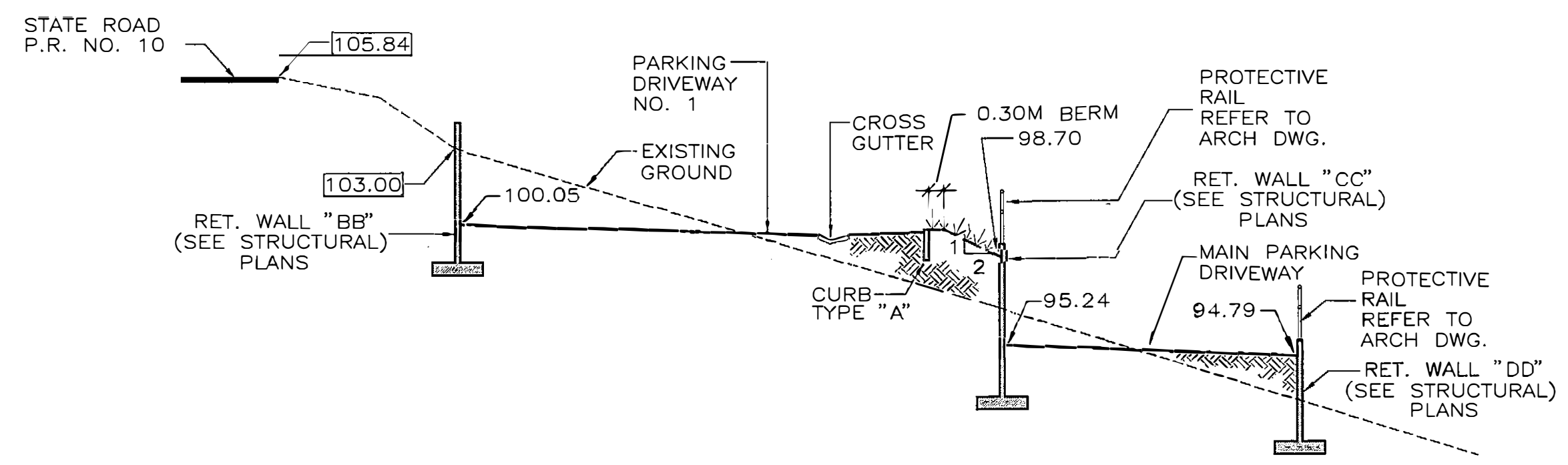


FED. AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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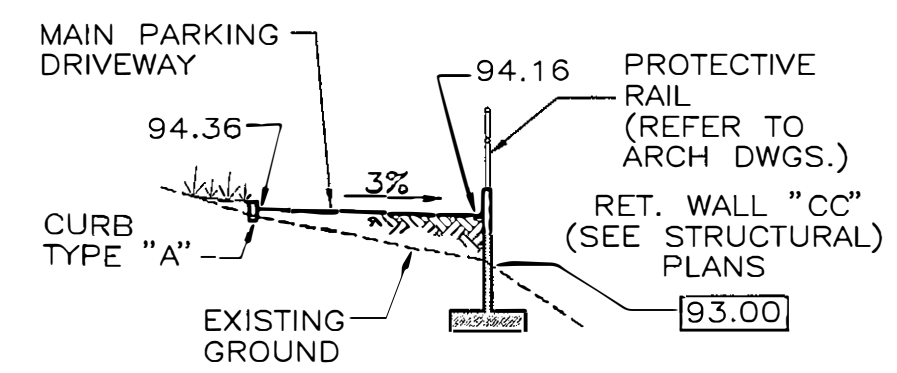
FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



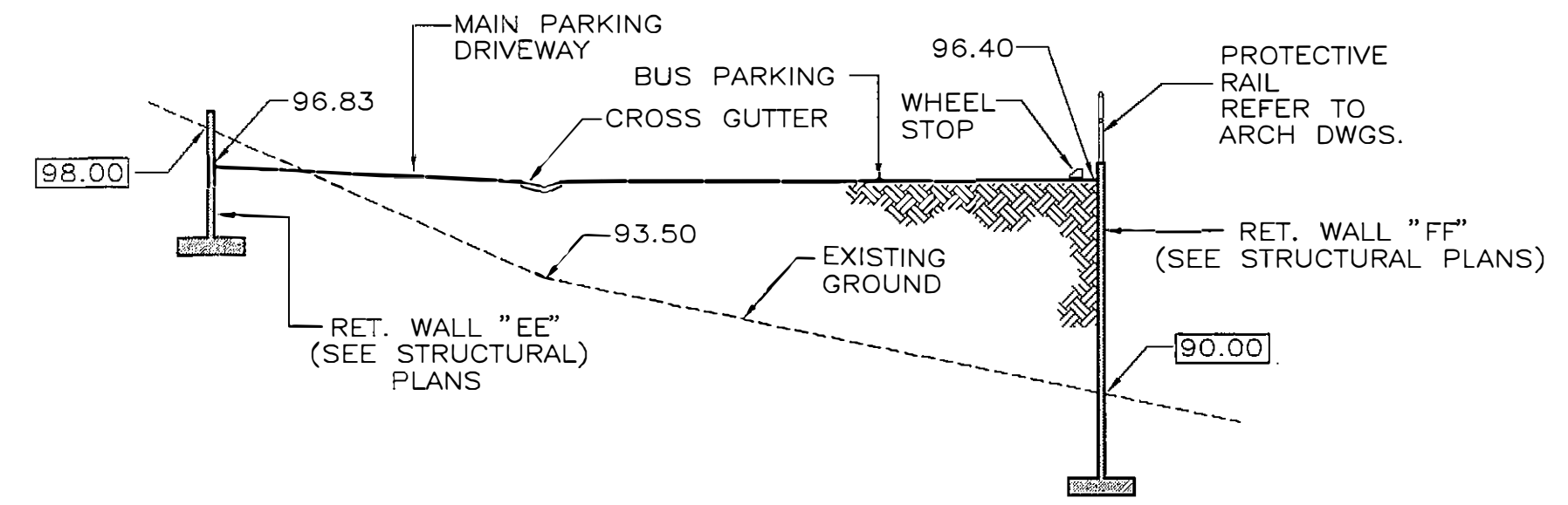
SECTION A-A
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V:1:100



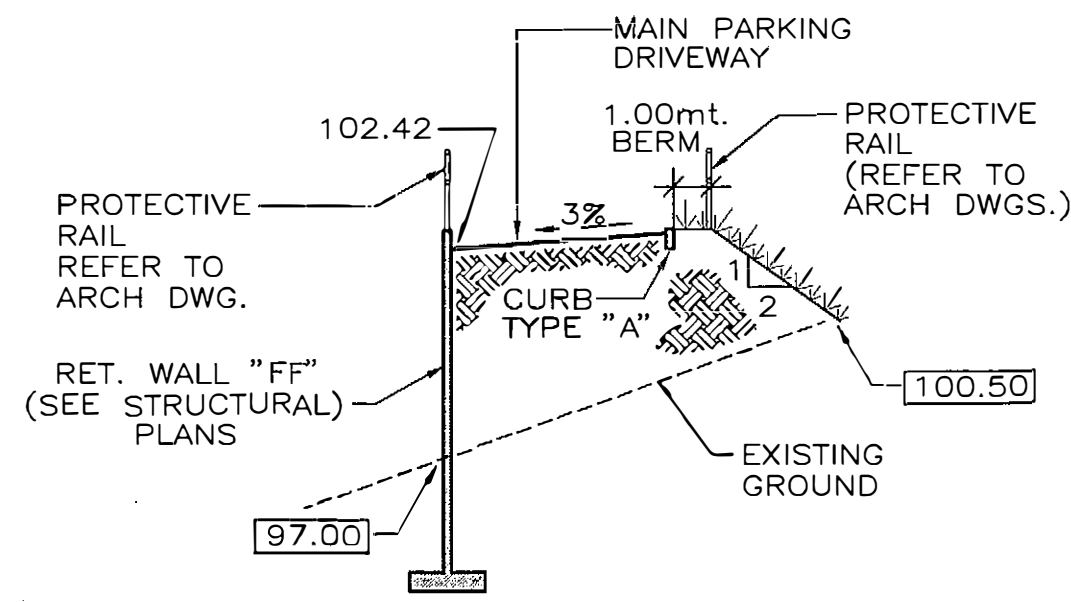
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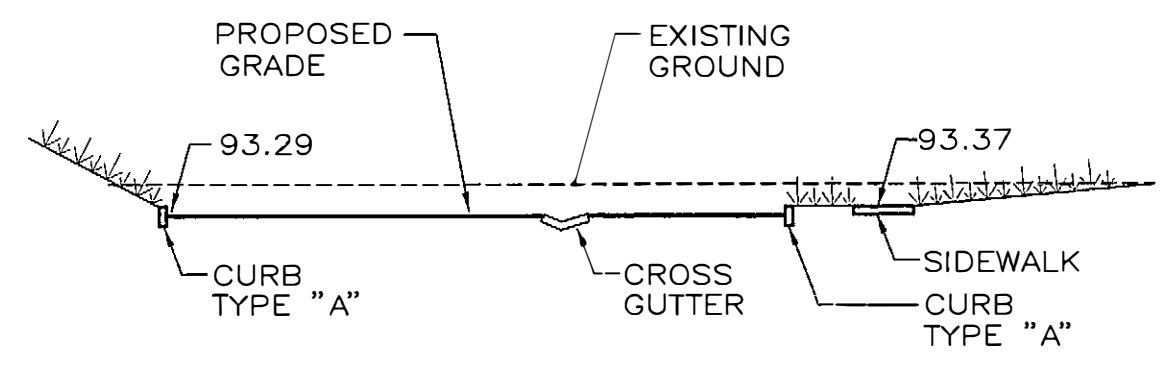
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SCALE: H:1:100
V:1:100



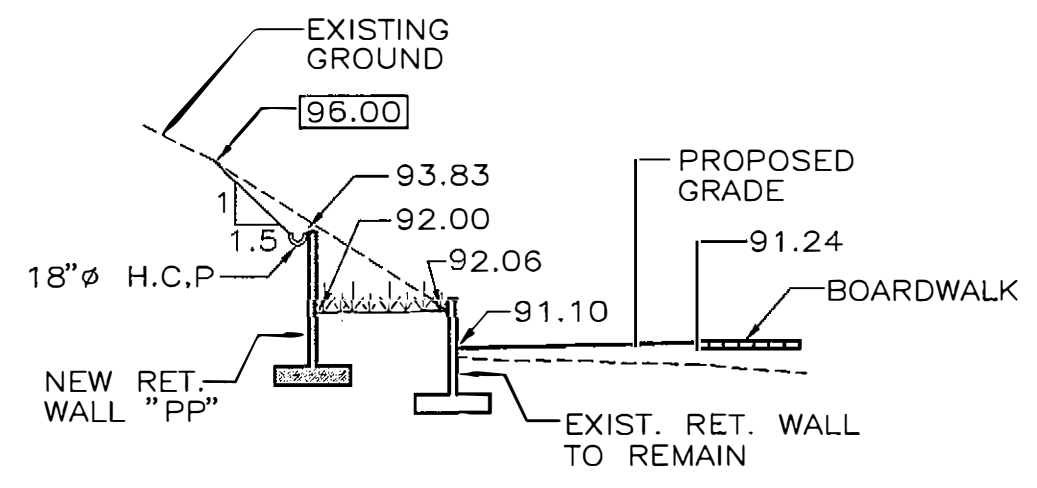
SECTION D-D
SCALE: H:1:200
V:1:100



SECTION E-E
SCALE: H:1:100
V:1:100



SECTION G-G
SCALE: H:1:200
V:1:100



SECTION H-H
SCALE: H:1:100
V:1:100

e

b

DESIGN GROUP

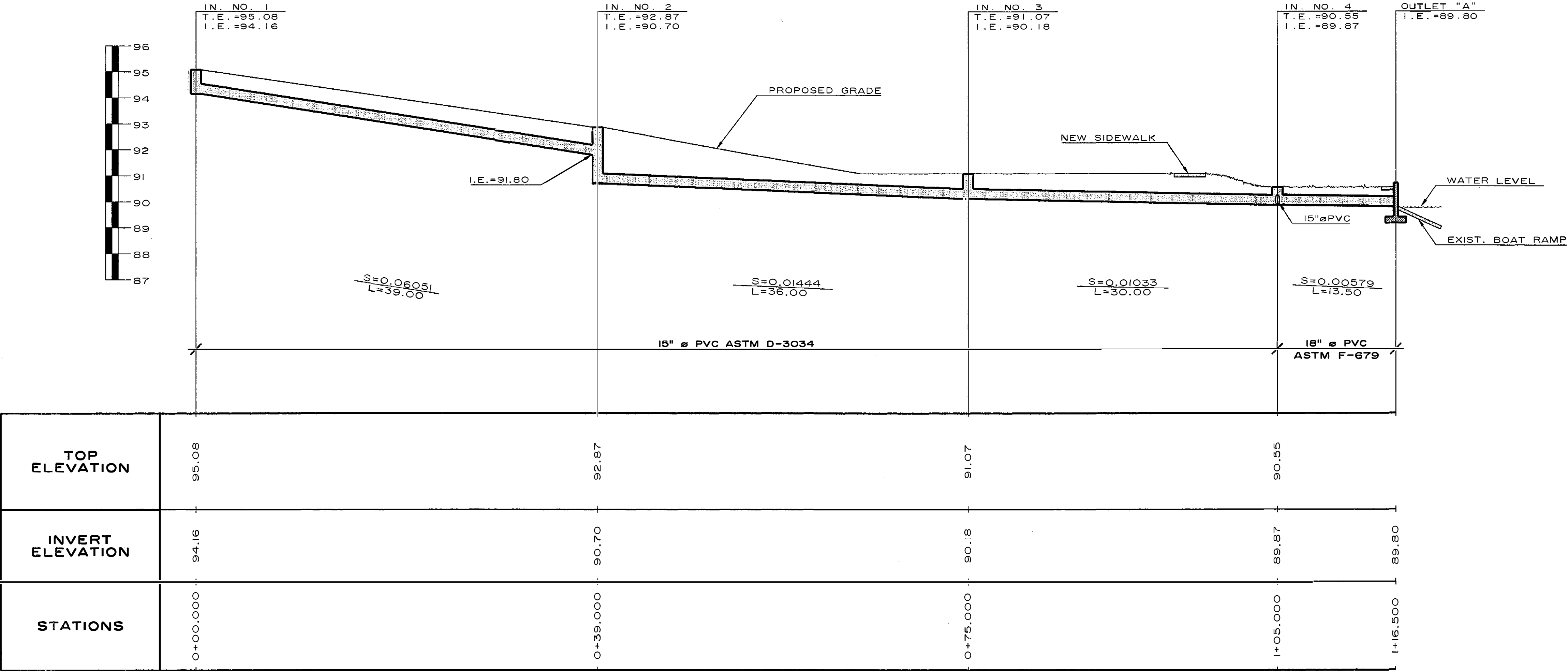
CONSULTING ENGINEERS

TEL. 288-0660 FAX. 288-1410

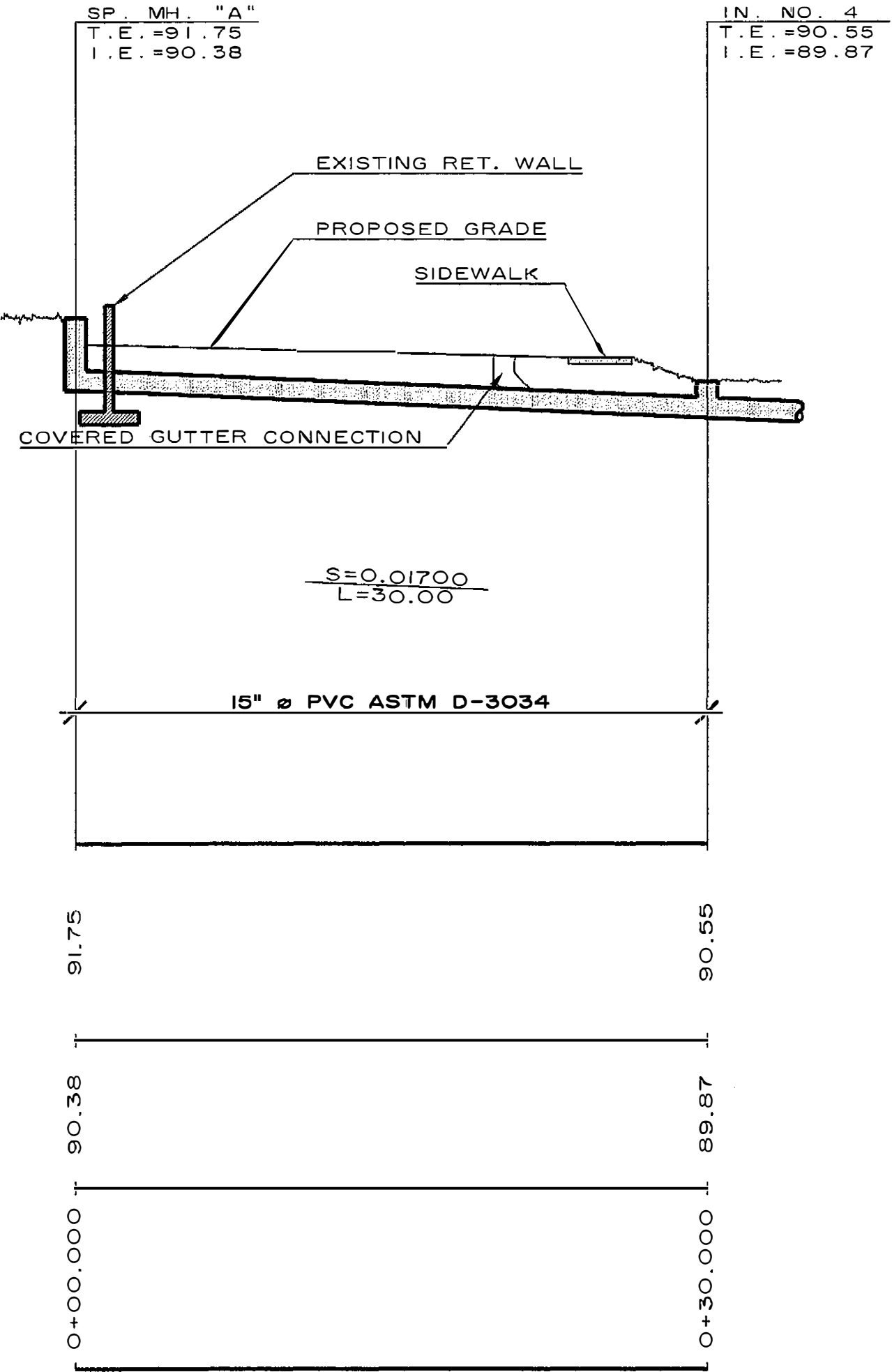
ENRIQUE BLANES PALMER

CIVIL ENGINEER LIC. 6418

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



PROFILE FROM IN. NO. 1 OUTLET "A"
SCALE=H:1:250
V:1:100



PROFILE FROM SP. M.H. "A"
TO IN. NO. 4
SCALE=H:1:250
V:1:100

e

b

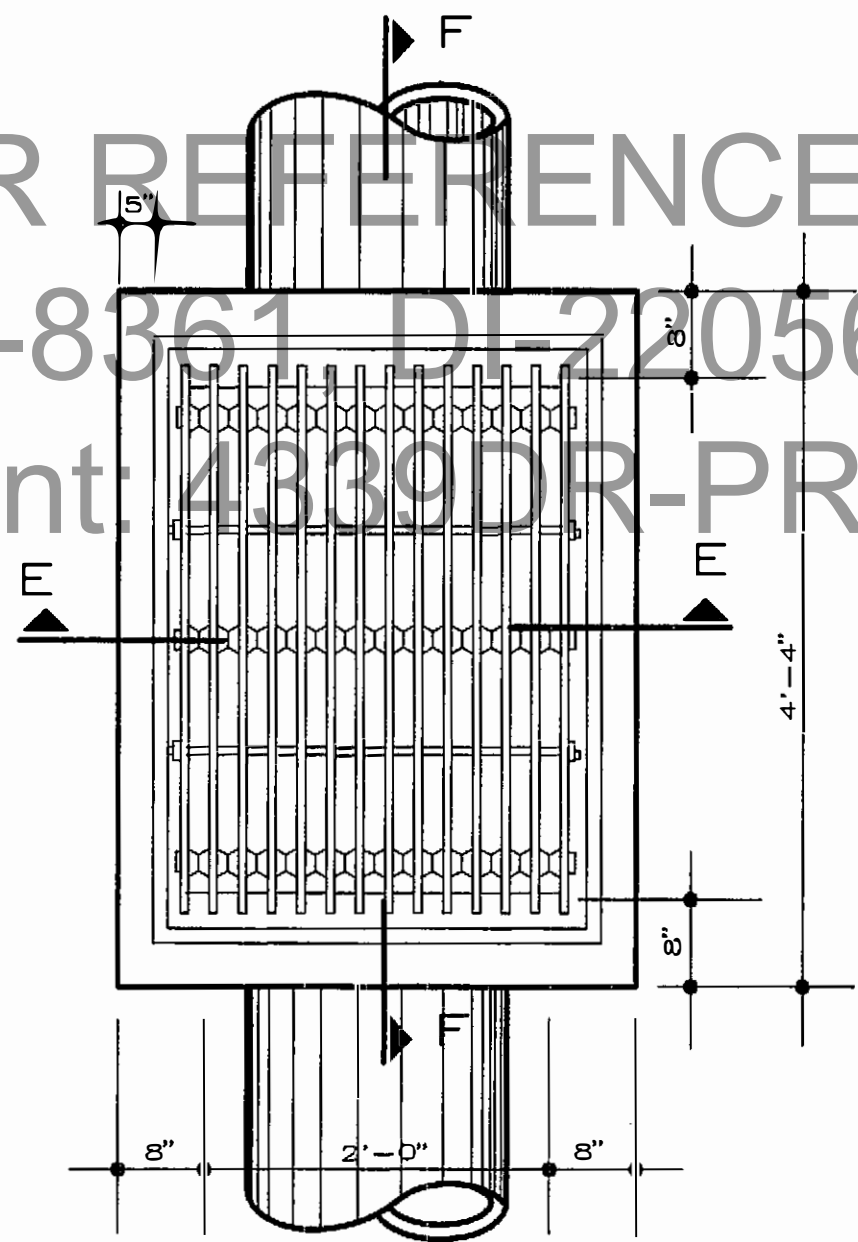
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DESIGN GROUP
CONSULTING ENGINEERS
TEL. 268-0550 FAX 268-1410

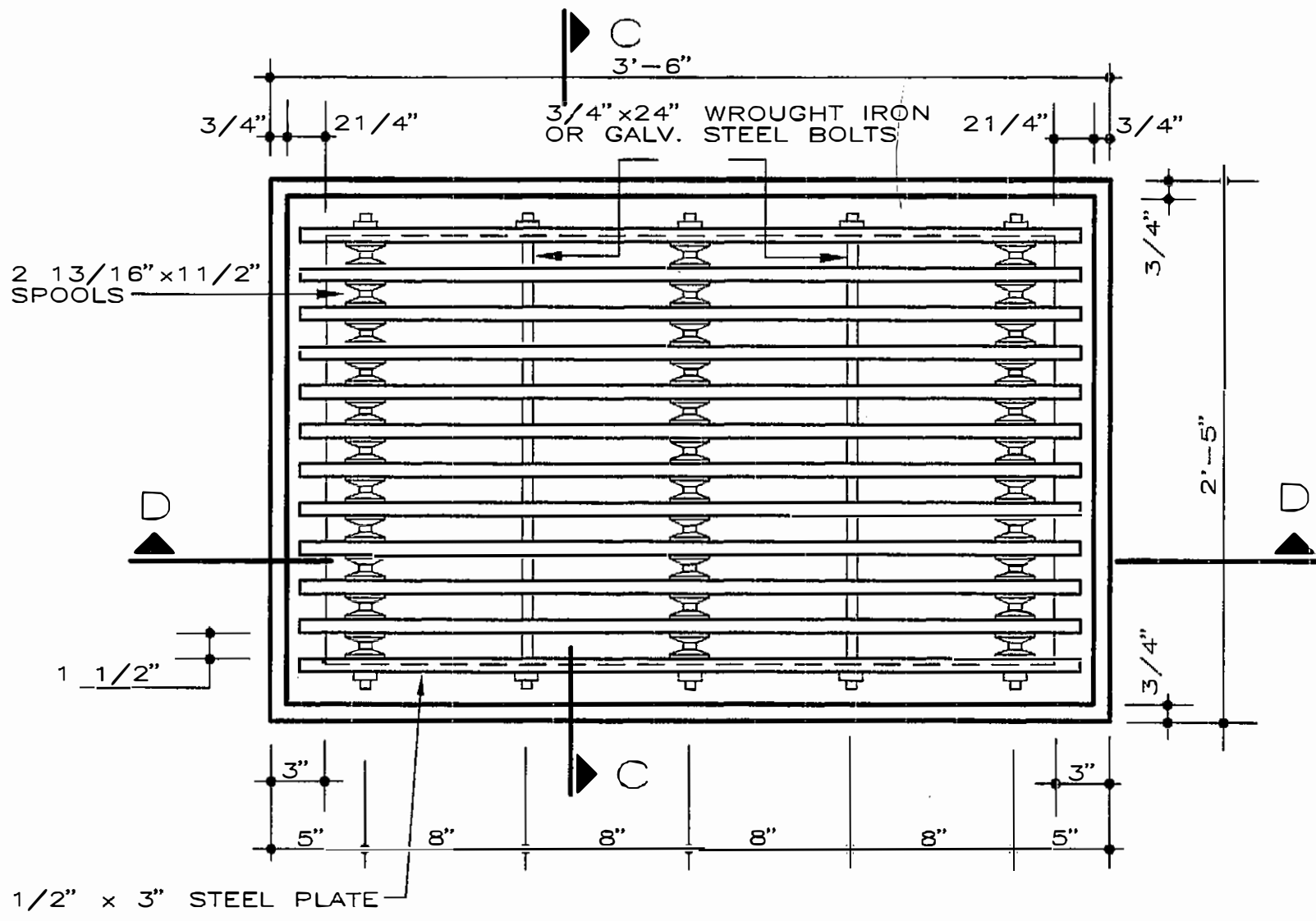
ENRIQUE BLANES PALMER
CIVIL ENGINEER LIC. NO. 6416

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				P.R.		18	181

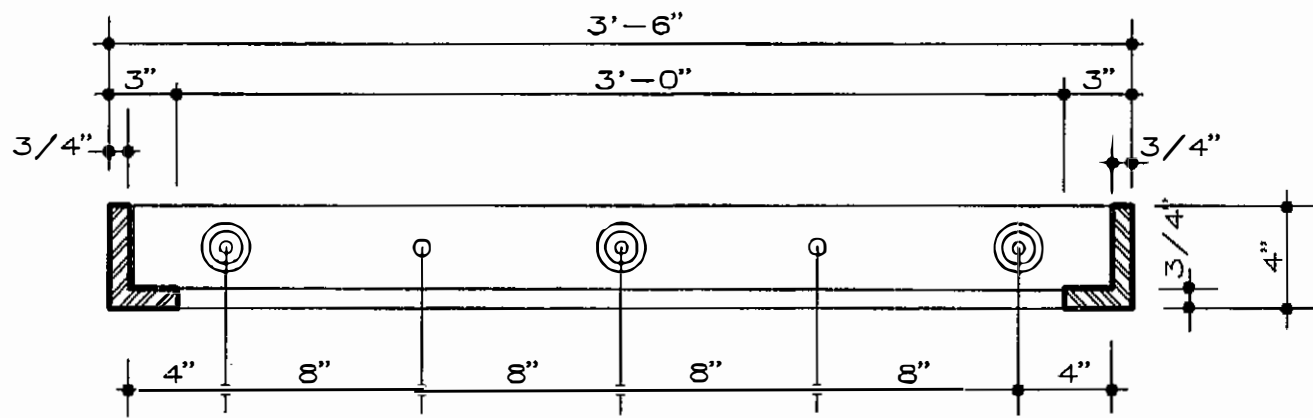
FOR REFERENCE ONLY
PW-8361-DI-220569
Event: 4339DR-PR



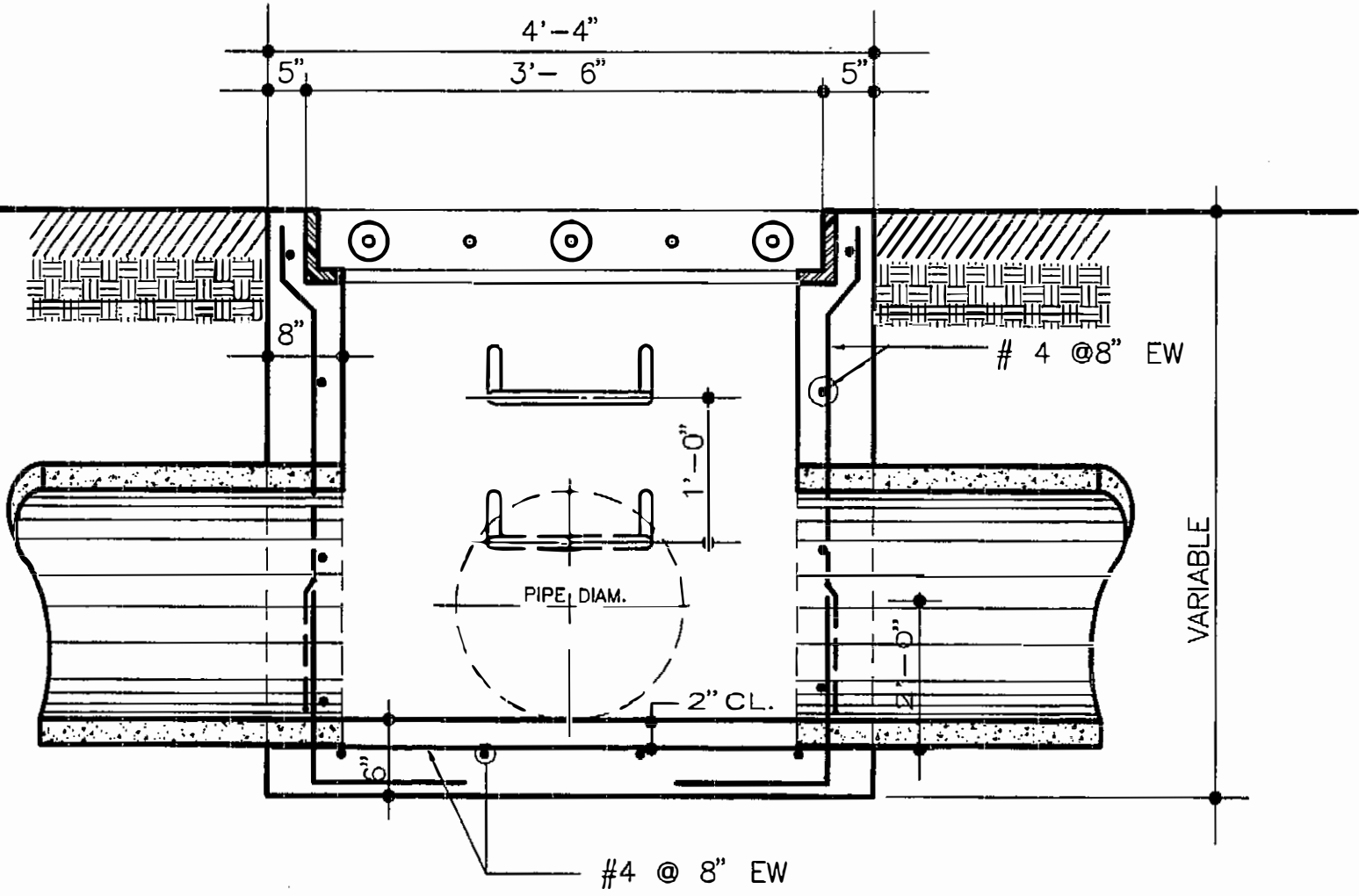
TYP. INLET PLAN
NTS



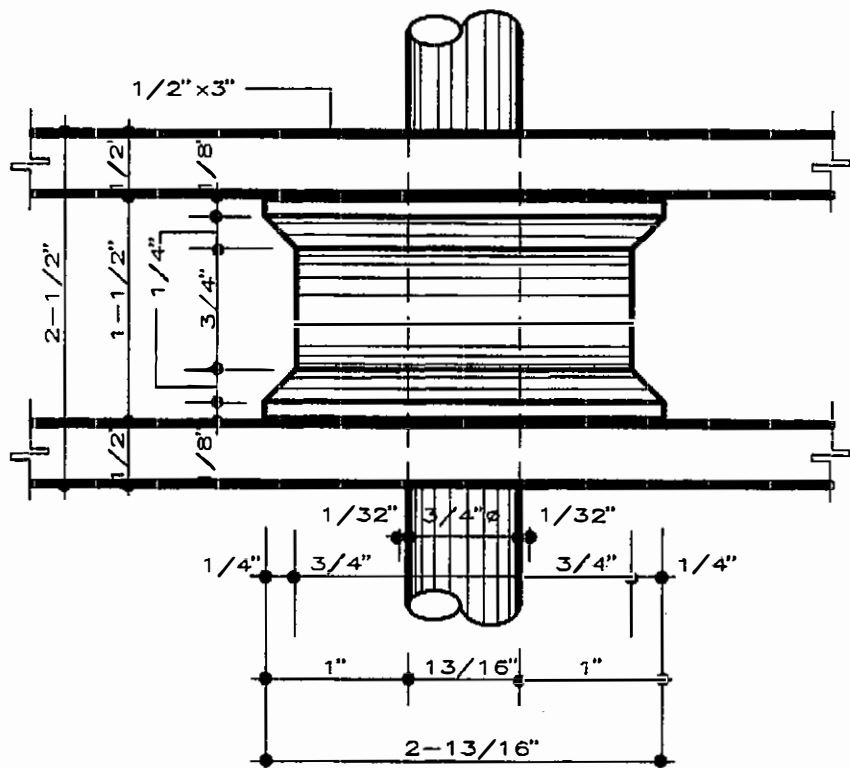
GRATING PLAN



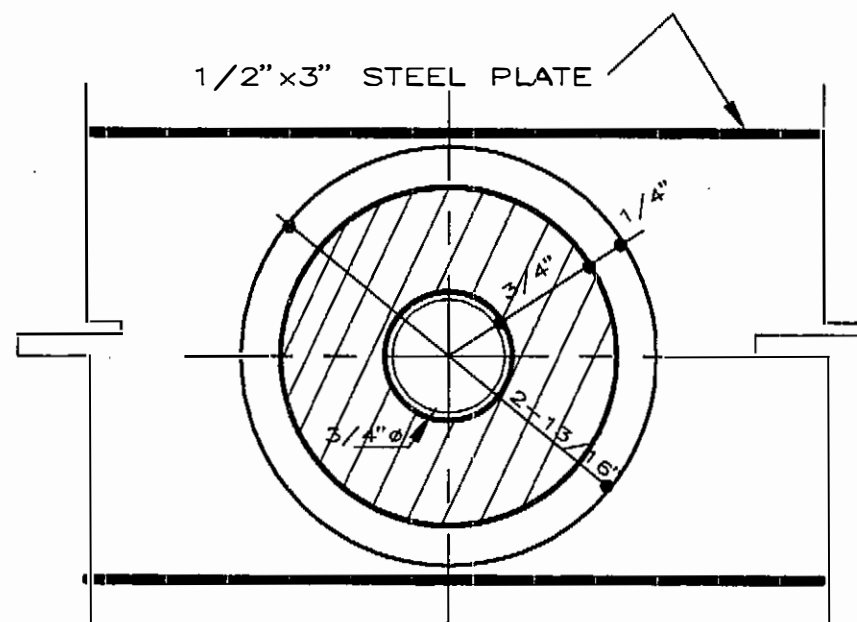
SECTION D-D
SCALE: 1 1/2"=1'-0"



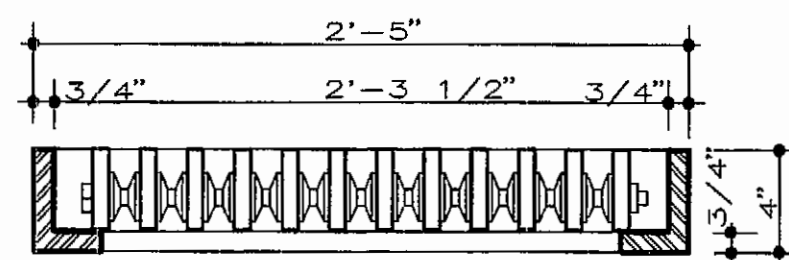
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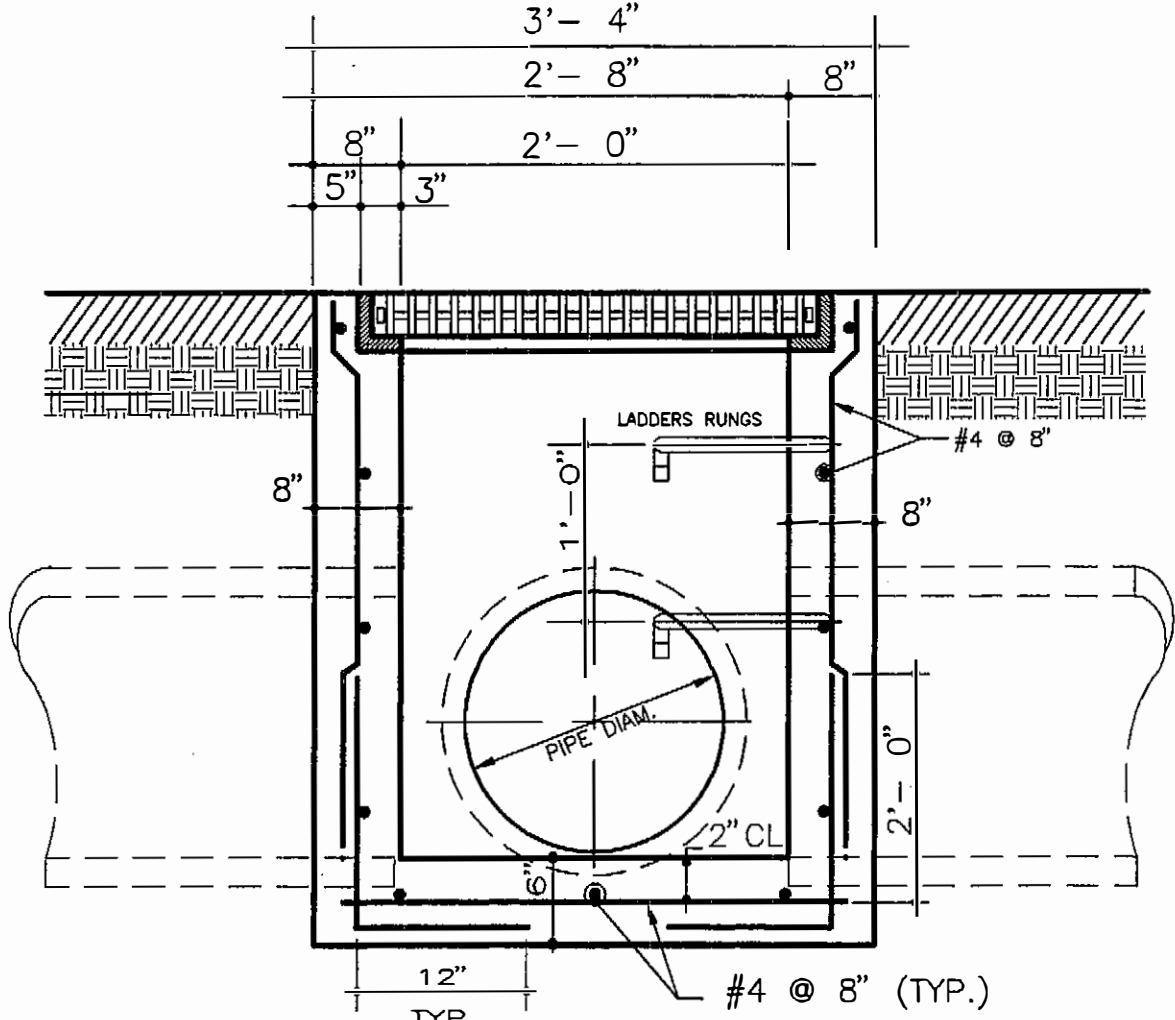
SPOOL DETAIL
SCALE: 3/4"=1'-0"



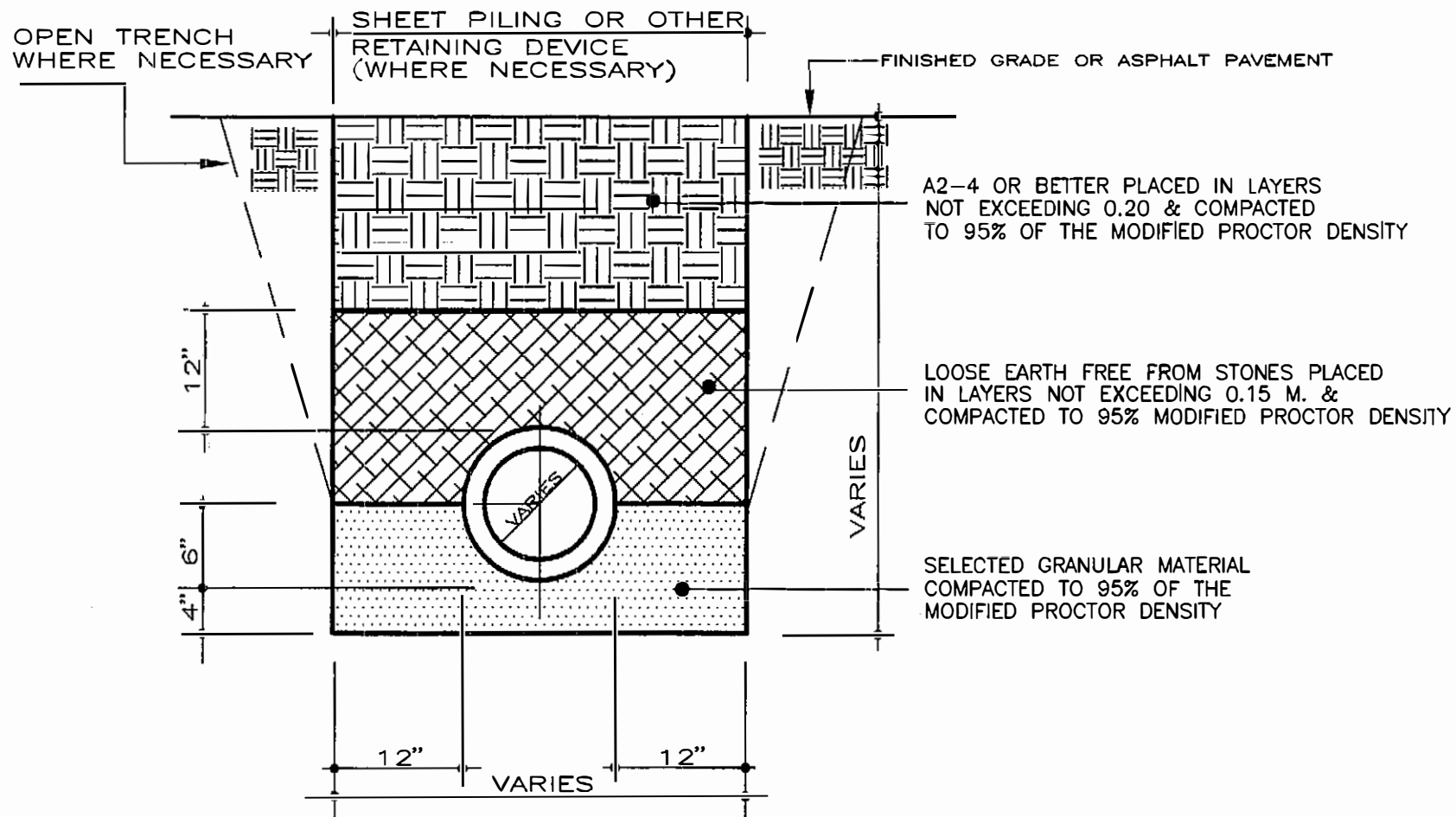
SPOOL SECTION
SCALE: 3/4"=1'-0"



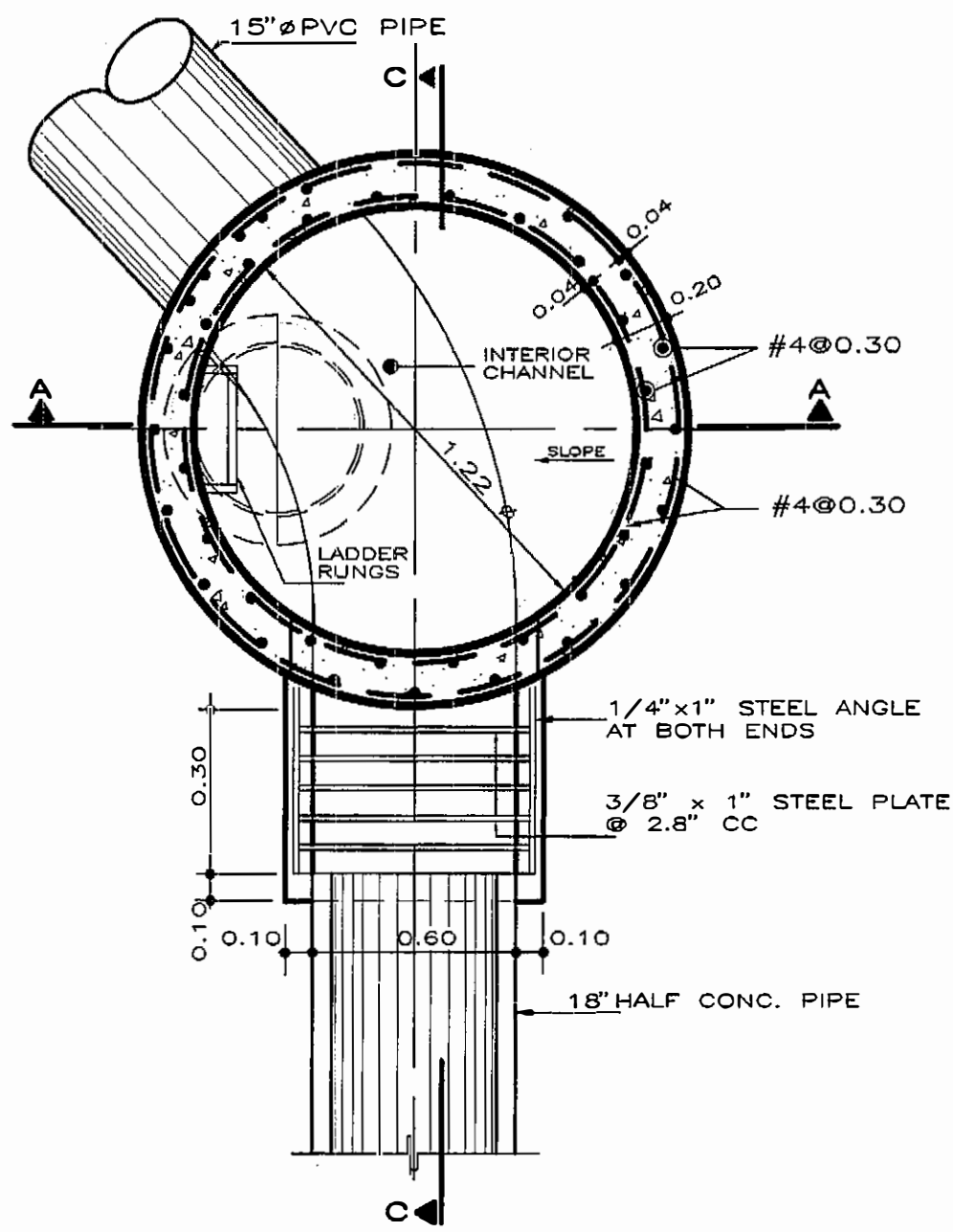
SECTION C-C
SCALE: 1 1/2"=1'-0"



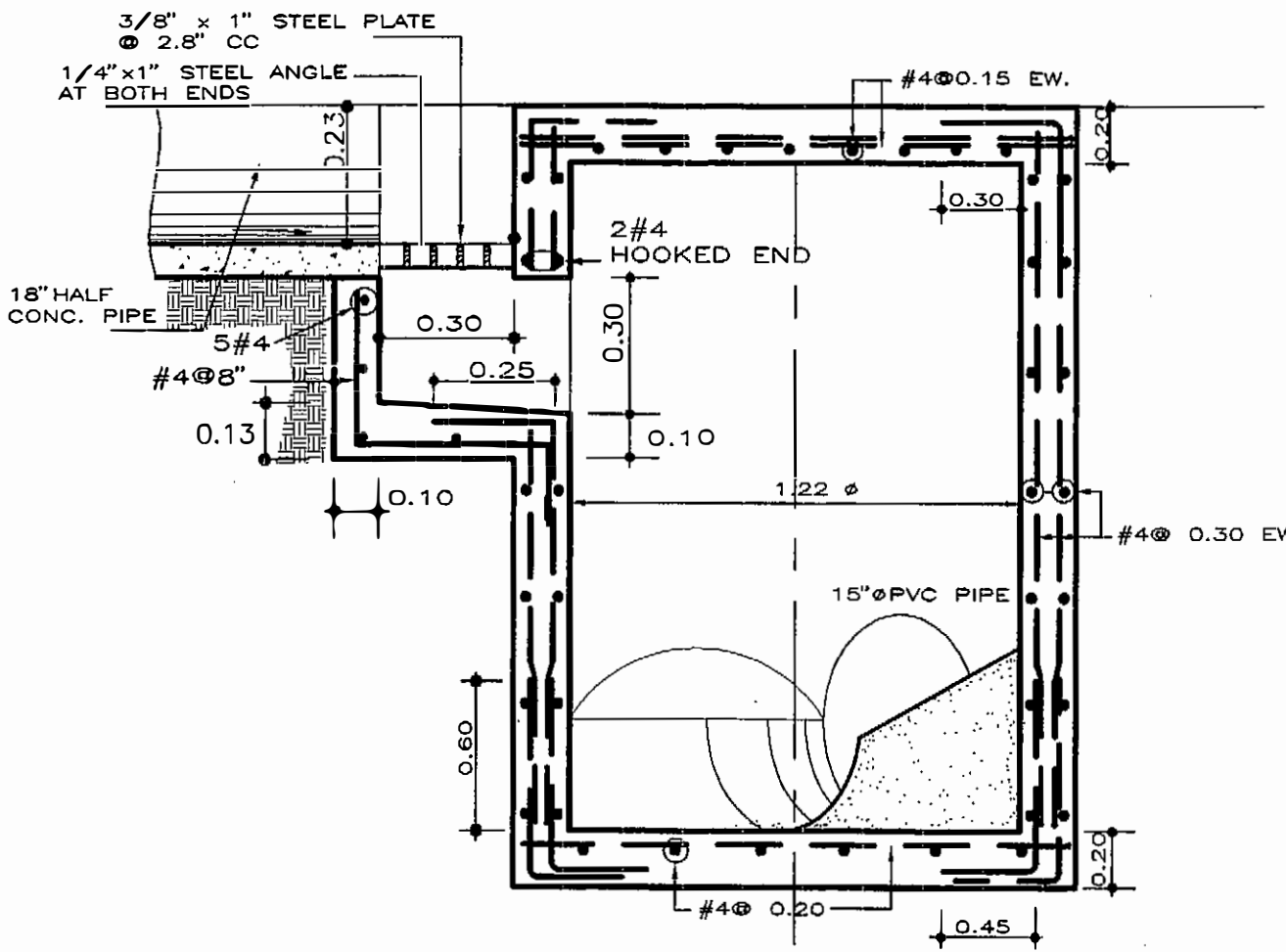
SECTION E-E
NTS



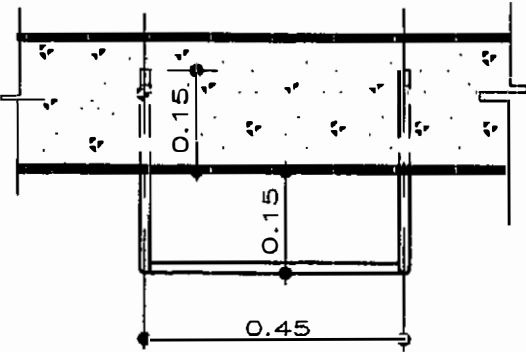
STORM PIPE TRENCH DETAIL



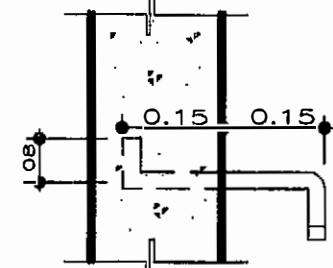
SECTIONAL PLAN FOR SP. MH. "A"
NTS



SECTION C-C
NTS

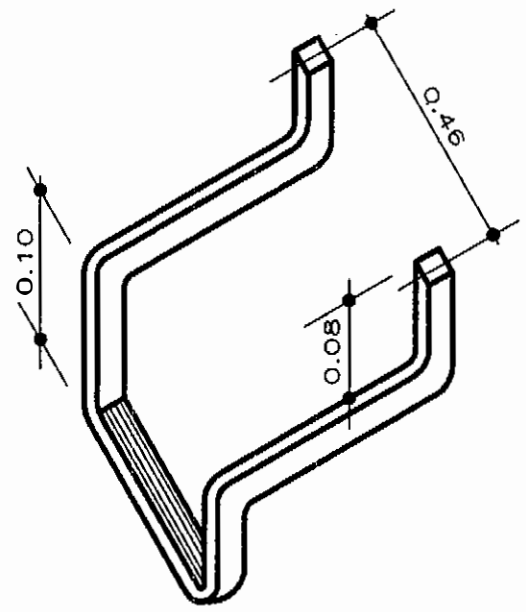


PLAN

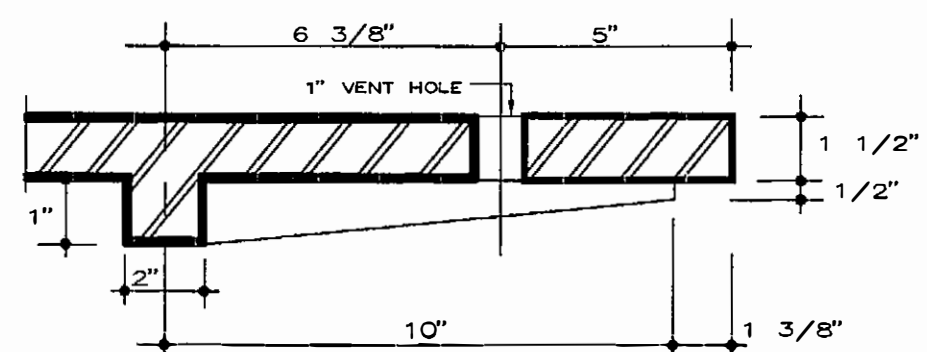


SECTION

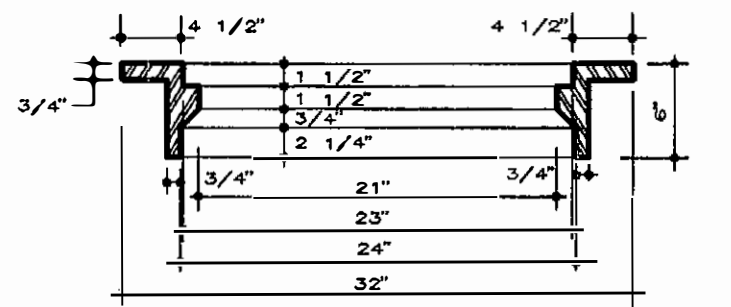
ALUMINUM MANHOLE STEP DET.



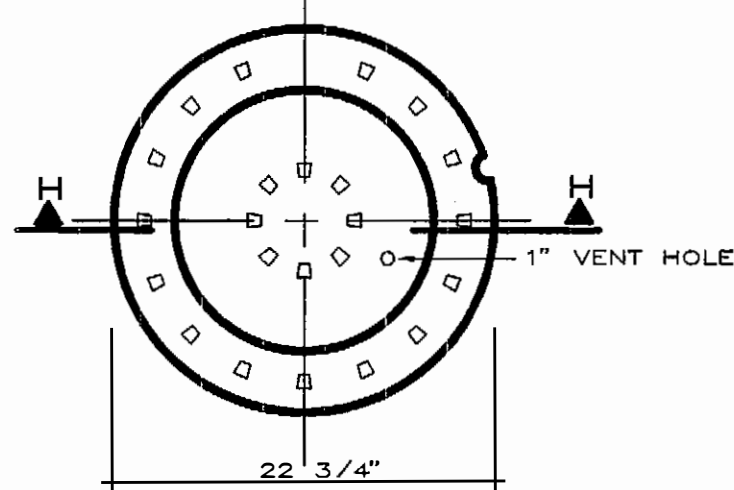
SECTION H-H
NTS



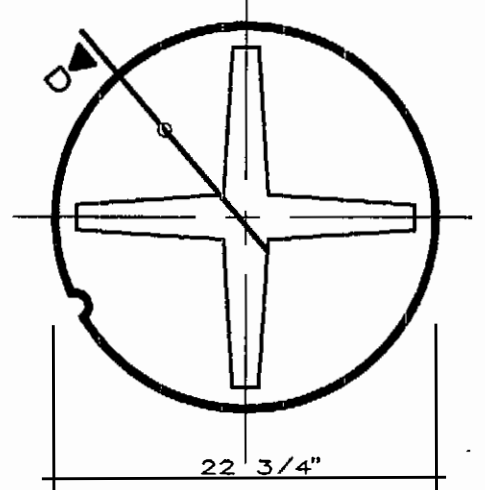
SECTION D-D
SCALE: 1/4"=1'-0"



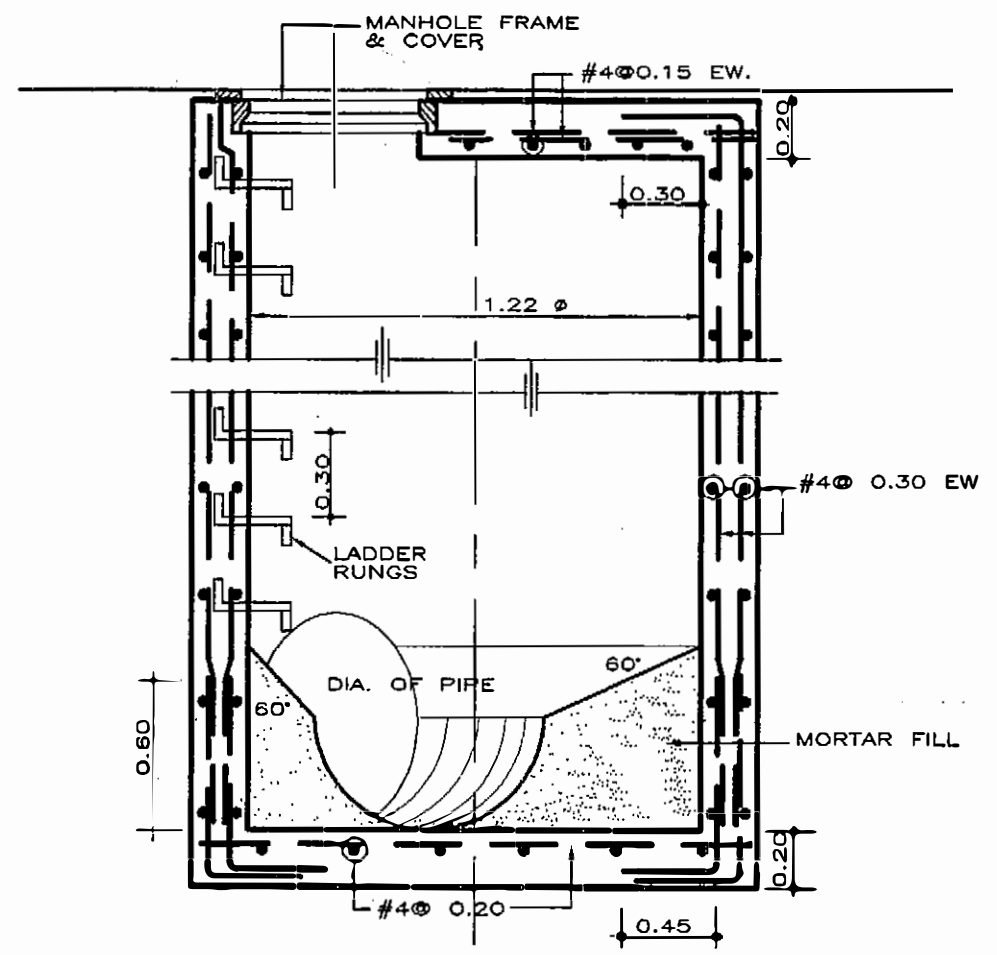
FRAME SECTION
NTS



TOP VIEW OF COVER
NTS



BOTTOM VIEW OF COVER
NTS

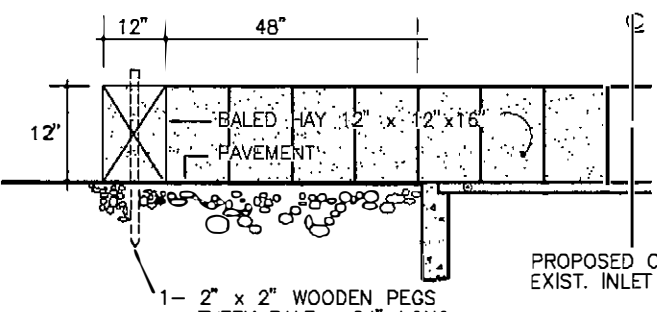
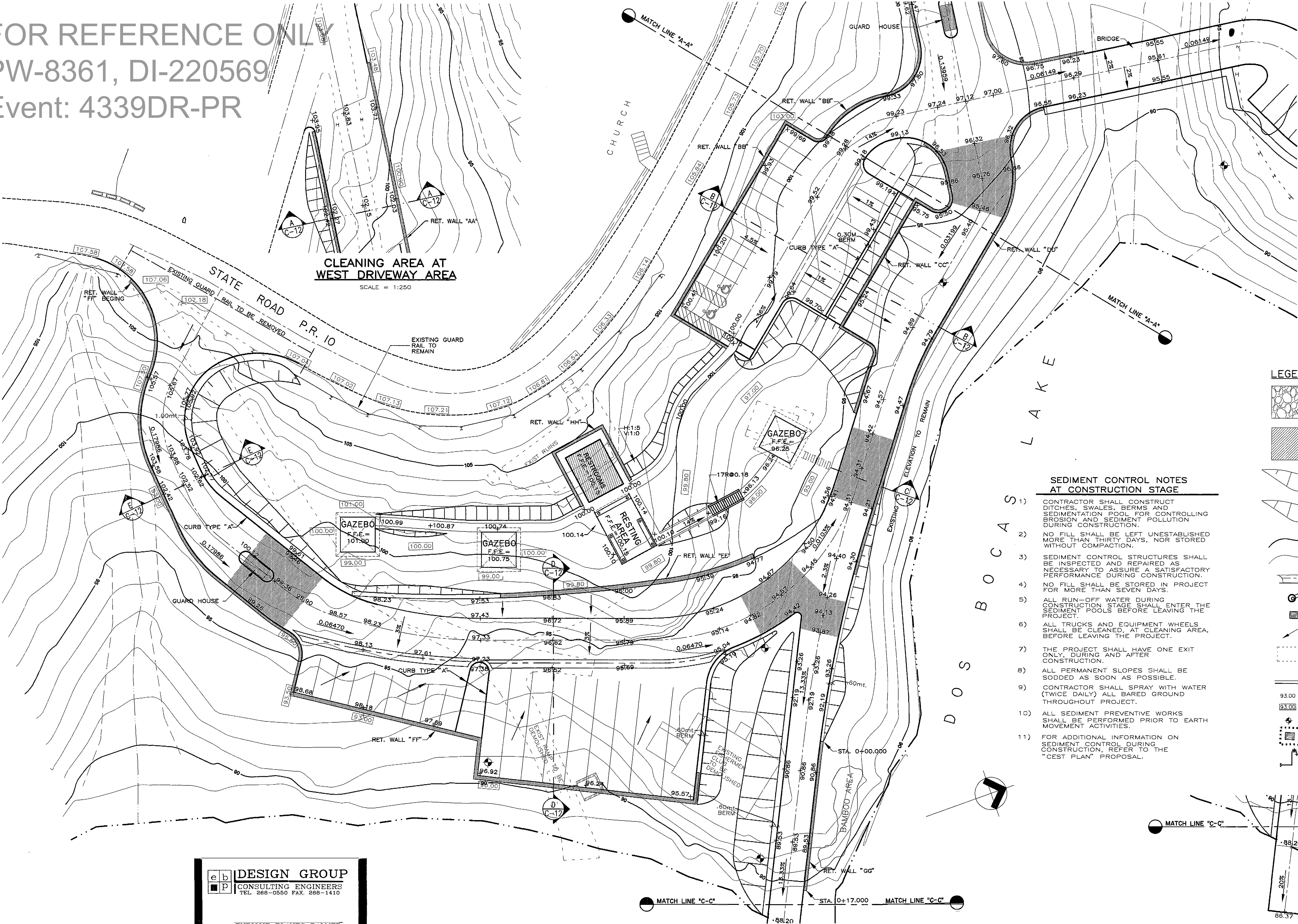


SECTION A-A
NTS

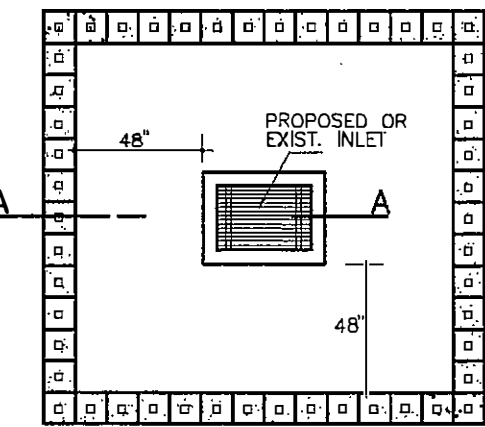
DATE	REVISIONS

FED. AID HWY. PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	19	181

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

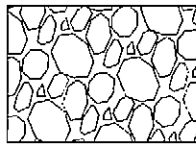


SECTION A - A

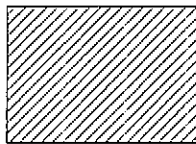


STRAW BALE
DIKE AT INLETS

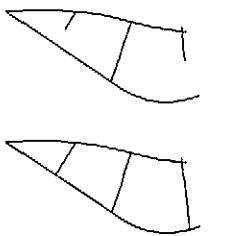
LEGEND:



TEMPORARY GRAVEL COURSE
FOR TRUCK CLEANING
DURING CONSTRUCTION



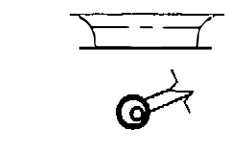
VERTICAL CURVE



FILL EMBANKMENT



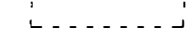
CUT EMBANKMENT



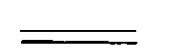
CONTOUR LINE EVERY 1.00M



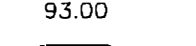
CONTOUR LINE EVERY 0.50M



PROPOSED CROSS-GUTTER



PROPOSED SPECIAL INLET



PROPOSED INLET



INDICATES RUN-OFF FLOW



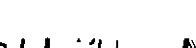
EXISTING STRUCTURES
TO BE DEMOLISHED



PROPOSED 18" ϕ HALF CONCRETE PIPE



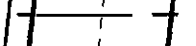
PROPOSED ELEVATION



EXISTING ELEVATION



BORING LOCATION AS PER SUB-SOIL STUDY



STRAW BALE DIKE AROUND INLET



1" ϕ TEMPORARY HOSE BIBB

SEDIMENT CONTROL NOTES
AT CONSTRUCTION STAGE

- CONTRACTOR SHALL CONSTRUCT DITCHES, SWALES, BERMS AND SEDIMENTATION POOL FOR CONTROLLING EROSION AND SEDIMENT POLLUTION DURING CONSTRUCTION.
- NO FILL SHALL BE LEFT UNESTABLISHED MORE THAN THIRTY DAYS, NOR STORED WITHOUT COMPACTION.
- SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED AND REPAIRED AS NECESSARY TO ASSURE A SATISFACTORY PERFORMANCE DURING CONSTRUCTION.
- NO FILL SHALL BE STORED IN PROJECT FOR MORE THAN SEVEN DAYS.
- ALL RUN-OFF WATER DURING CONSTRUCTION STAGE SHALL ENTER THE SEDIMENT POOLS BEFORE LEAVING THE PROJECT.
- ALL TRUCKS AND EQUIPMENT WHEELS SHALL BE CLEANED, AT CLEANING AREA, BEFORE LEAVING THE PROJECT.
- THE PROJECT SHALL HAVE ONE EXIT ONLY, DURING AND AFTER CONSTRUCTION.
- ALL PERMANENT SLOPES SHALL BE SODDED AS SOON AS POSSIBLE.
- CONTRACTOR SHALL SPRAY WITH WATER (TWICE DAILY) ALL BARED GROUND THROUGHOUT PROJECT.
- ALL SEDIMENT PREVENTIVE WORKS SHALL BE PERFORMED PRIOR TO EARTH MOVEMENT ACTIVITIES.
- FOR ADDITIONAL INFORMATION ON SEDIMENT CONTROL DURING CONSTRUCTION, REFER TO THE "CEST PLAN" PROPOSAL.

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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE: 1:250

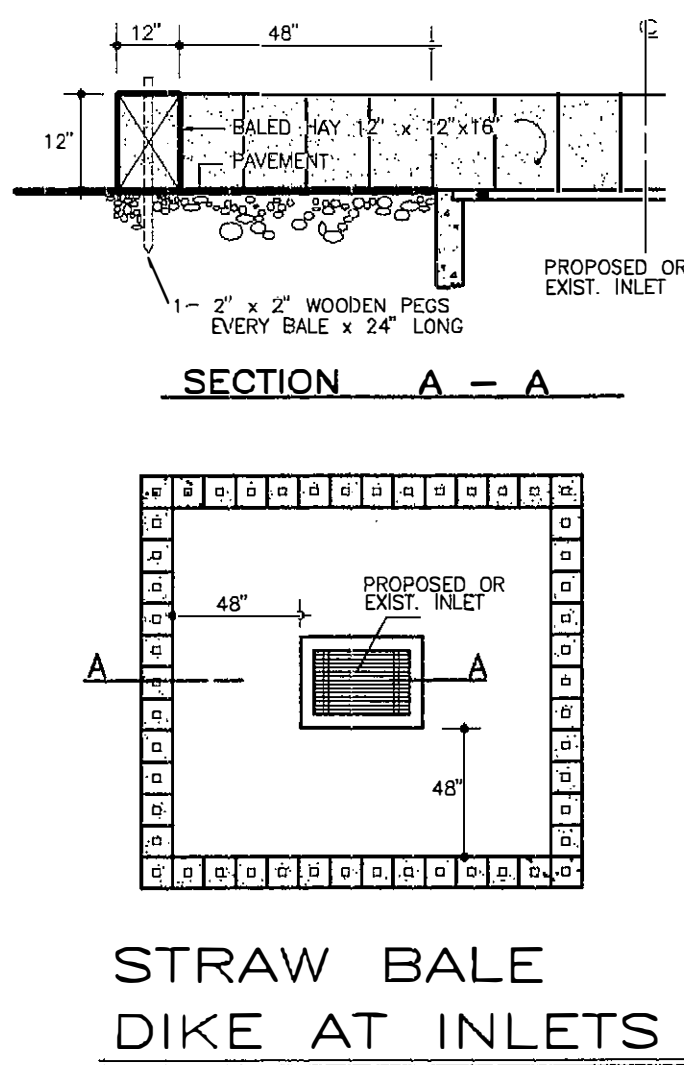
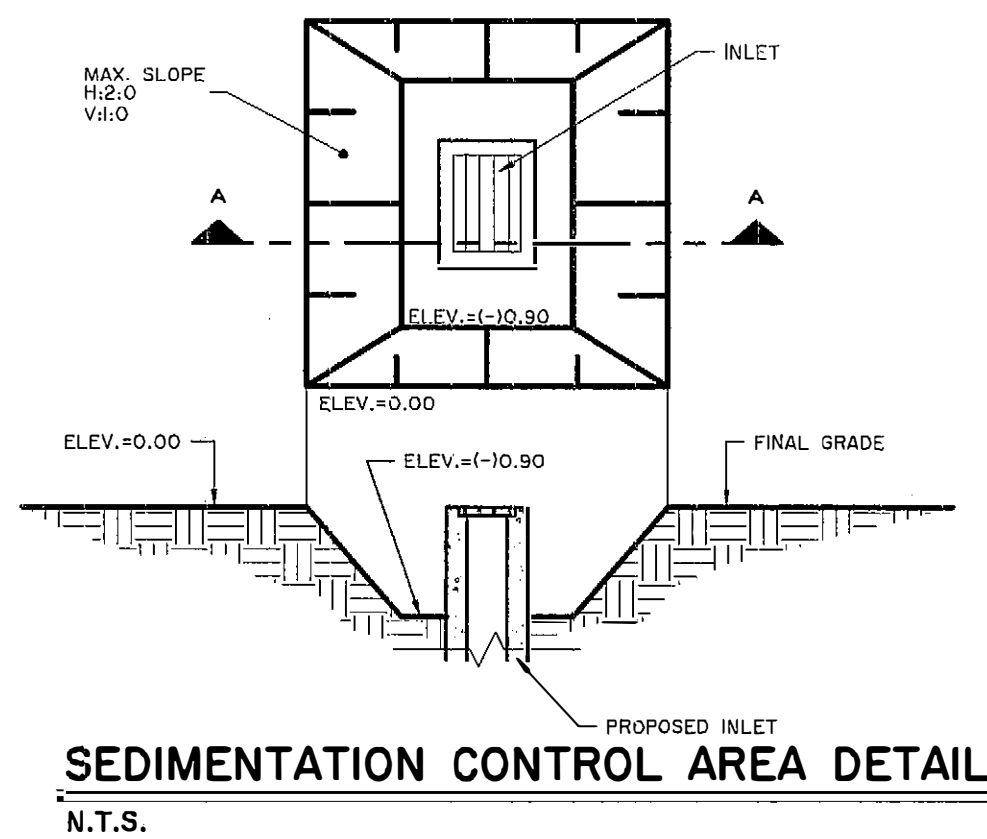
CEST PLAN
(PARTIAL)

C

15

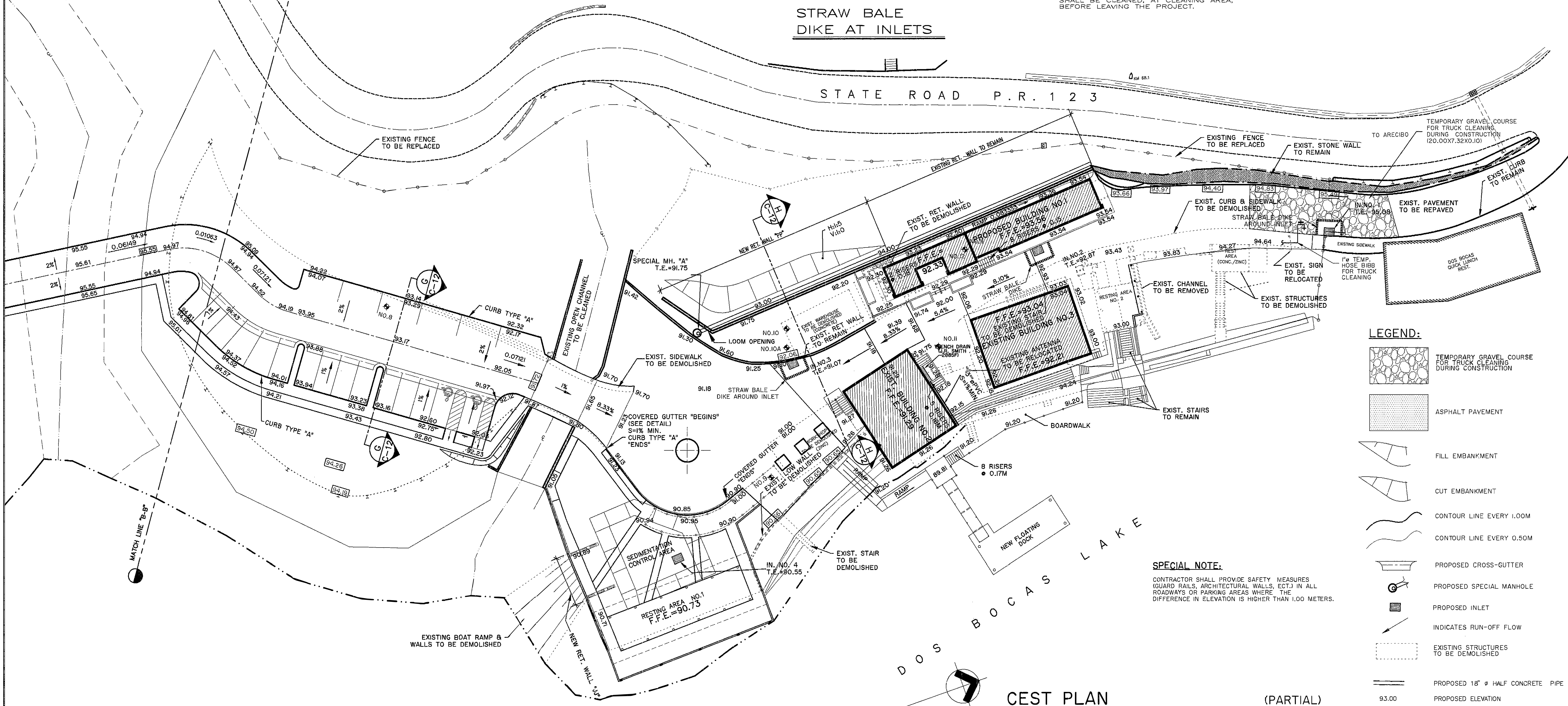
FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	20	161

FOR REFERENCE ONLY
PW-8361, LI-220560
Event: 4339DR-PR



SEDIMENT CONTROL NOTES
AT CONSTRUCTION STAGE

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LEGEND:

- TEMPORARY GRAVEL COURSE FOR TRUCK CLEANING DURING CONSTRUCTION
- ASPHALT PAVEMENT
- FILL EMBANKMENT
- CUT EMBANKMENT
- CONTOUR LINE EVERY 1.00M
- CONTOUR LINE EVERY 0.50M
- PROPOSED CROSS-GUTTER
- PROPOSED SPECIAL MANHOLE
- PROPOSED INLET
- INDICATES RUN-OFF FLOW
- EXISTING STRUCTURES TO BE DEMOLISHED
- PROPOSED 18" Ø HALF CONCRETE PIPE
- PROPOSED ELEVATION
- EXISTING ELEVATION
- BORING LOCATION AS PER SUB-SOIL STUDY
- STRAW BALE DIKE AROUND INLET
- 1" Ø TEMPORARY HOSE BIBB

SPECIAL NOTE:

CONTRACTOR SHALL PROVIDE SAFETY MEASURES (GUARD RAILS, ARCHITECTURAL WALLS, ECT.) IN ALL ROADWAYS OR PARKING AREAS WHERE THE DIFFERENCE IN ELEVATION IS HIGHER THAN 1.00 METERS.

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UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE: 1:250

CEST PLAN

(PARTIAL)

16

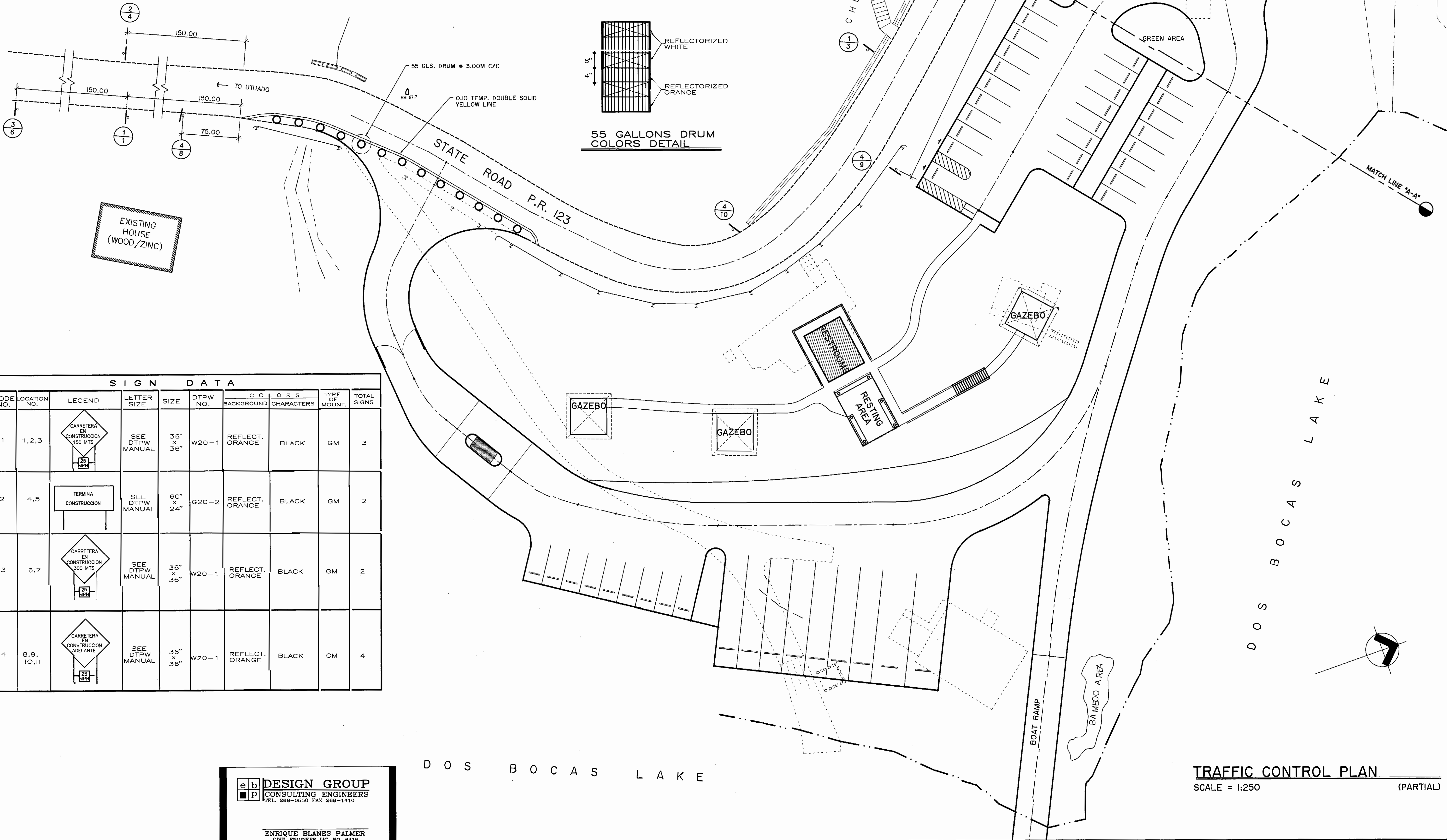
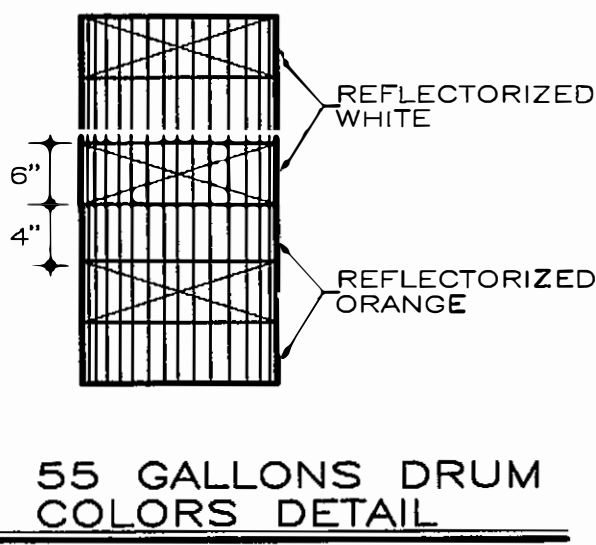
FILE NAME: L2BGR07.DWG

NOTES

- FOR REFERENCE ONLY
PW-8361-DI-220569
Event: 4330DR-PR
- THE TRAFFIC CONTROL DEVICES SHALL BE INSTALLED FROM THE COMMENCEMENT OF CONSTRUCTION AND BE OPERATED AND MAINTAINED DURING CONSTRUCTION, AND SHALL BE REMOVED AFTER COMPLETION OF THE PROJECT.
 - CONTRACTOR SHALL PROVIDE SAFE CONDITIONS DAY & NIGHT TO MOTORISTS IN ORDER TO MAINTAIN TRAFFIC FLOW WITH THE LEAST INTERFERENCE TO THE CONSTRUCTION WORK.
 - THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL STATE OR LOCAL SAFETY REQUIREMENTS.
 - IF WORK IS PERFORMED DURING HOURS OF DARKNESS, STEADY BURNING LIGHTS BARRICADES MAY BE USED.

LEGEND

- SIGN CODE NUMBER
○ SIGN LOCATION NUMBER
- 55 GALLONS DRUM @ 3.00M C/C
- ⏏ CONSTRUCTION SIGN



SIGN DATA									
CODE NO.	LOCATION NO.	LEGEND	LETTER SIZE	SIZE	DTPW NO.	COLORS BACKGROUND	CHARACTERS	TYPE OF MOUNT.	TOTAL SIGNS
1	1,2,3	CARRETERA EN CONSTRUCCION 150 MTS	SEE DTPW MANUAL	36" x 36"	W20-1	REFLECT. ORANGE	BLACK	GM	3
2	4,5	TERMINA CONSTRUCCION	SEE DTPW MANUAL	60" x 24"	G20-2	REFLECT. ORANGE	BLACK	GM	2
3	6,7	CARRETERA EN CONSTRUCCION 300 MTS	SEE DTPW MANUAL	36" x 36"	W20-1	REFLECT. ORANGE	BLACK	GM	2
4	8,9, 10,11	CARRETERA EN CONSTRUCCION ADELANTE	SEE DTPW MANUAL	36" x 36"	W20-1	REFLECT. ORANGE	BLACK	GM	4

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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE: 1:250

TRAFFIC CONTROL PLAN
SCALE = 1:250 (PARTIAL)

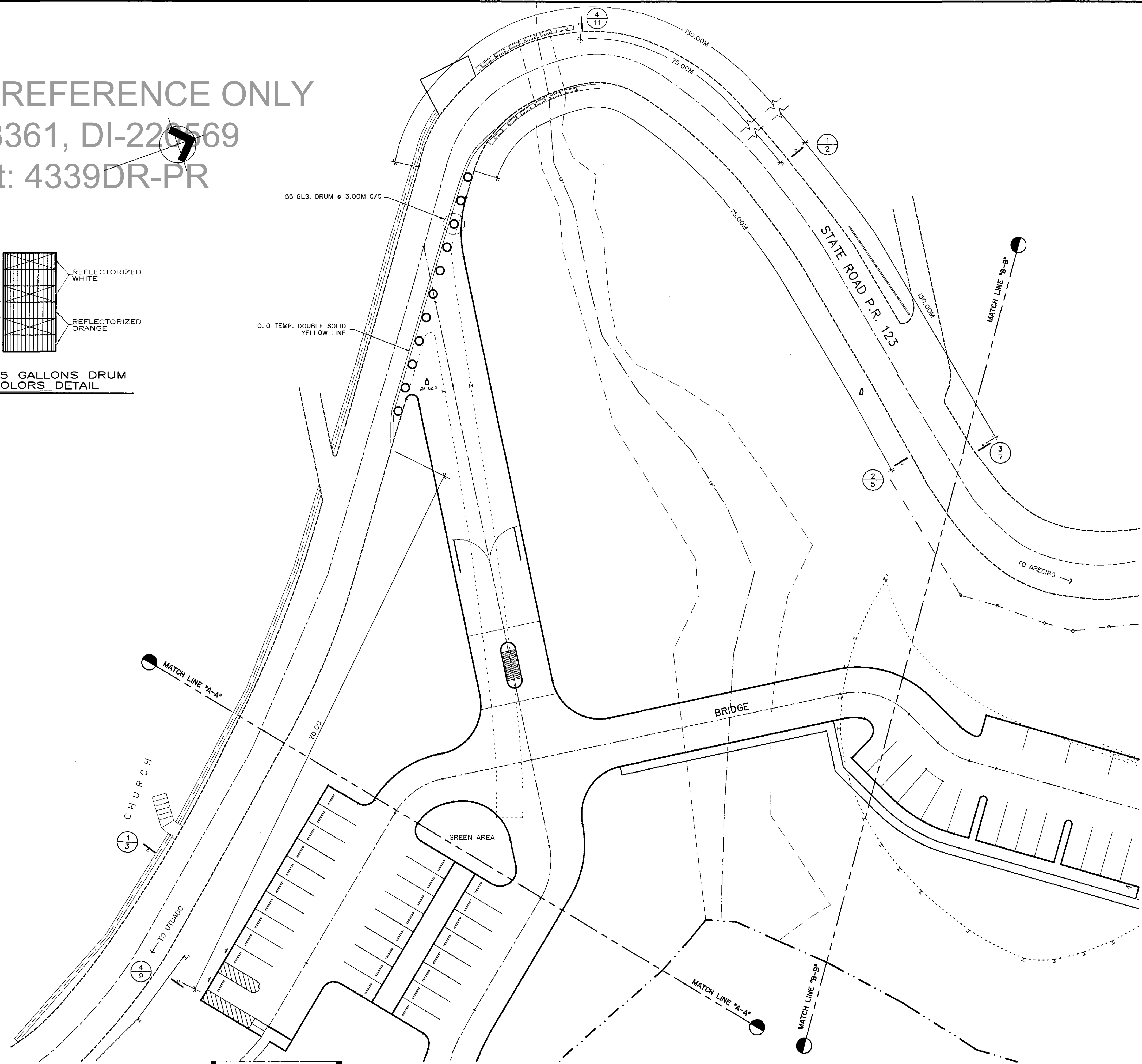
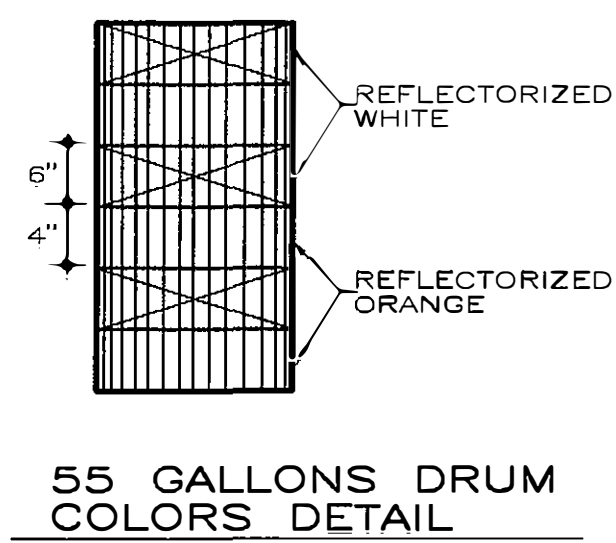
TRAFFIC CONTROL PLAN
(PARTIAL)

C
17

FILE NAME: L2BTCC17.DWG

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				P.R.		22	181

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



LEGEND

- SIGN CODE NUMBER
SIGN LOCATION NUMBER
- 55 GALLONS DRUM @ 3.00M C/C
- CONSTRUCTION SIGN

NOTES

- THE TRAFFIC CONTROL DEVICES SHALL BE INSTALLED FROM THE COMMENCEMENT OF CONSTRUCTION AND BE OPERATED AND MAINTAIN DURING CONSTRUCTION, AND SHALL BE REMOVED AFTER COMPLETION OF THE PROJECT.
- CONTRACTOR SHALL PROVIDE SAFE CONDITIONS DAY & NIGHT TO MOTORISTS IN ORDER TO MAINTAIN TRAFFIC FLOW WITH THE LEAST INTERFERENCE TO THE CONSTRUCTION WORK.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL STATE OR LOCAL SAFETY REQUIREMENTS.
- IF WORK IS PERFORMED DURING HOURS OF DARKNESS, STEADY BURNING LIGHTS BARRICADES MAY BE USED.

TRAFFIC CONTROL PLAN
SCALE = 1:250 (PARTIAL)

DESIGN GROUP
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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE: 1:250

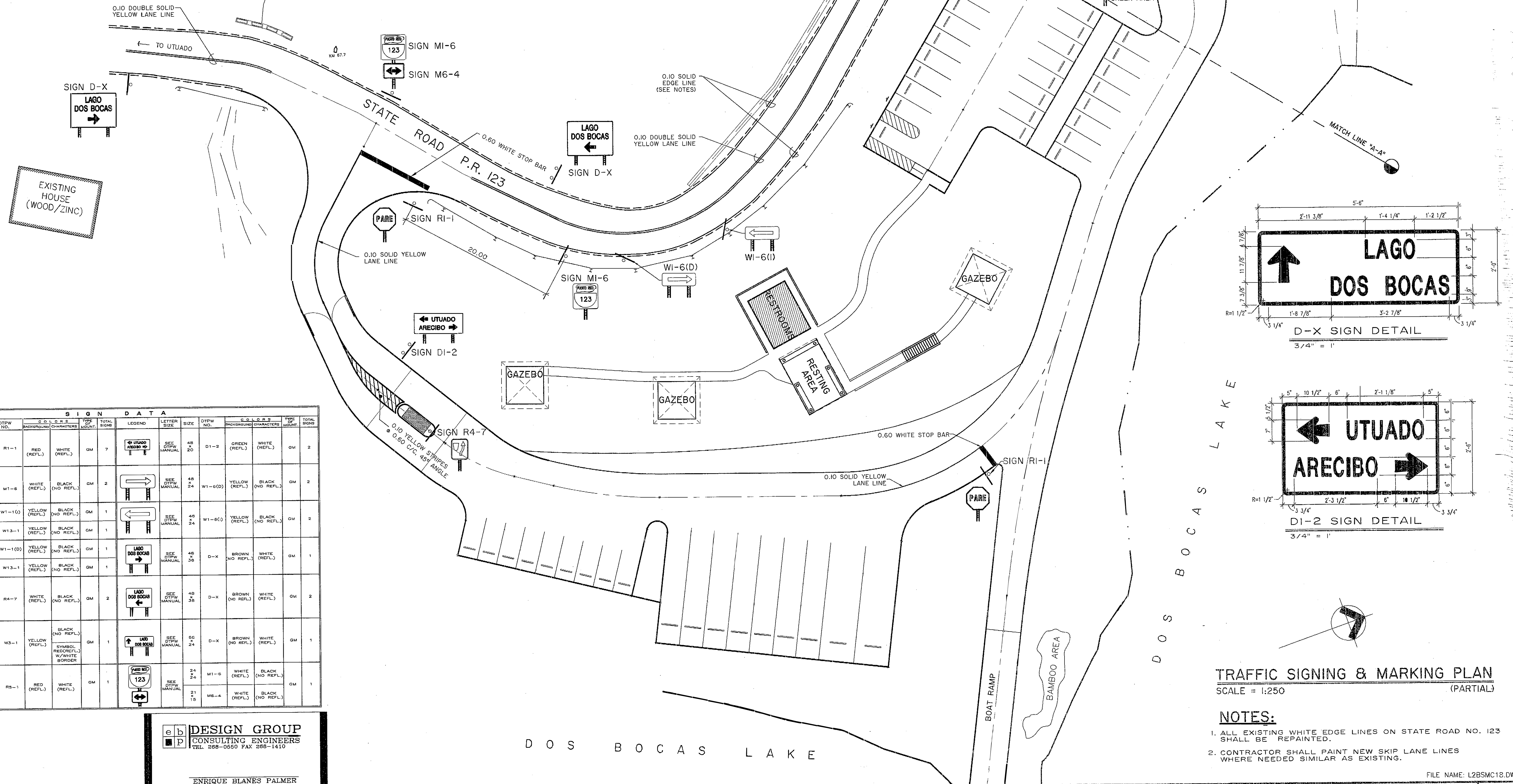
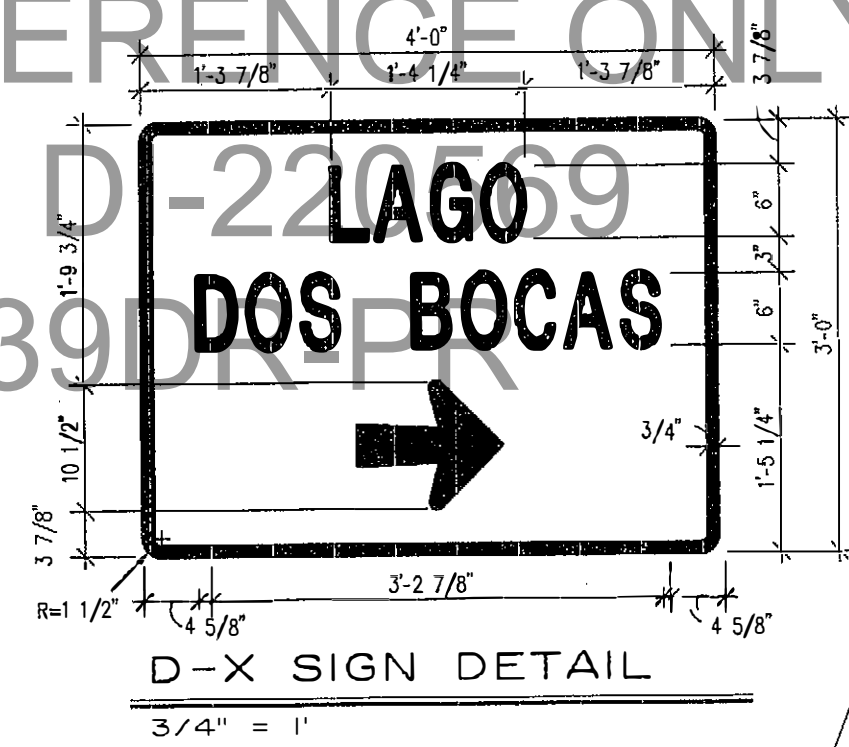
TRAFFIC CONTROL PLAN
(PARTIAL)

C
18

FILE NAME: L2BTCC17.DWG

FOR REFERENCE ONLY
PW-8361, D-220569
Event: 4339

FED AID PROJECT NO.	H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
					P.R.		23	181



SIGN DATA									
LEGEND	LETTER	SIZE	DTW	NO.	BACKGROUND	CHARACTERISTICS	TOTAL	NO.	LEGEND
PARE	SEE	30	30	R1-1	RED	WHITE (REFL.)	GM	7	UTUADO ARECIBO
STATE ROAD 123	SEE	24	24	M1-6	WHITE	BLACK (NO REFL.)	GM	2	LAGO DOS BOCAS
W1-10	SEE	30	30	W1-10	YELLOW	BLACK (NO REFL.)	GM	1	LAGO DOS BOCAS
W13-1	SEE	18	18	W13-1	YELLOW	BLACK (NO REFL.)	GM	1	LAGO DOS BOCAS
W1-10	SEE	30	30	W1-10	YELLOW	BLACK (NO REFL.)	GM	1	LAGO DOS BOCAS
W13-1	SEE	18	18	W13-1	YELLOW	BLACK (NO REFL.)	GM	1	LAGO DOS BOCAS
R4-7	SEE	24	24	R4-7	WHITE	BLACK (NO REFL.)	GM	2	LAGO DOS BOCAS
W3-1	SEE	30	30	W3-1	YELLOW	BLACK (NO REFL.)	GM	1	LAGO DOS BOCAS
RS-1	SEE	30	30	RS-1	RED	WHITE (REFL.)	GM	1	LAGO DOS BOCAS

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UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE: 1:250

TRAFFIC SIGNING & MARKING PLAN
(PARTIAL)

19

TRAFFIC SIGNING & MARKING PLAN
SCALE = 1:250 (PARTIAL)

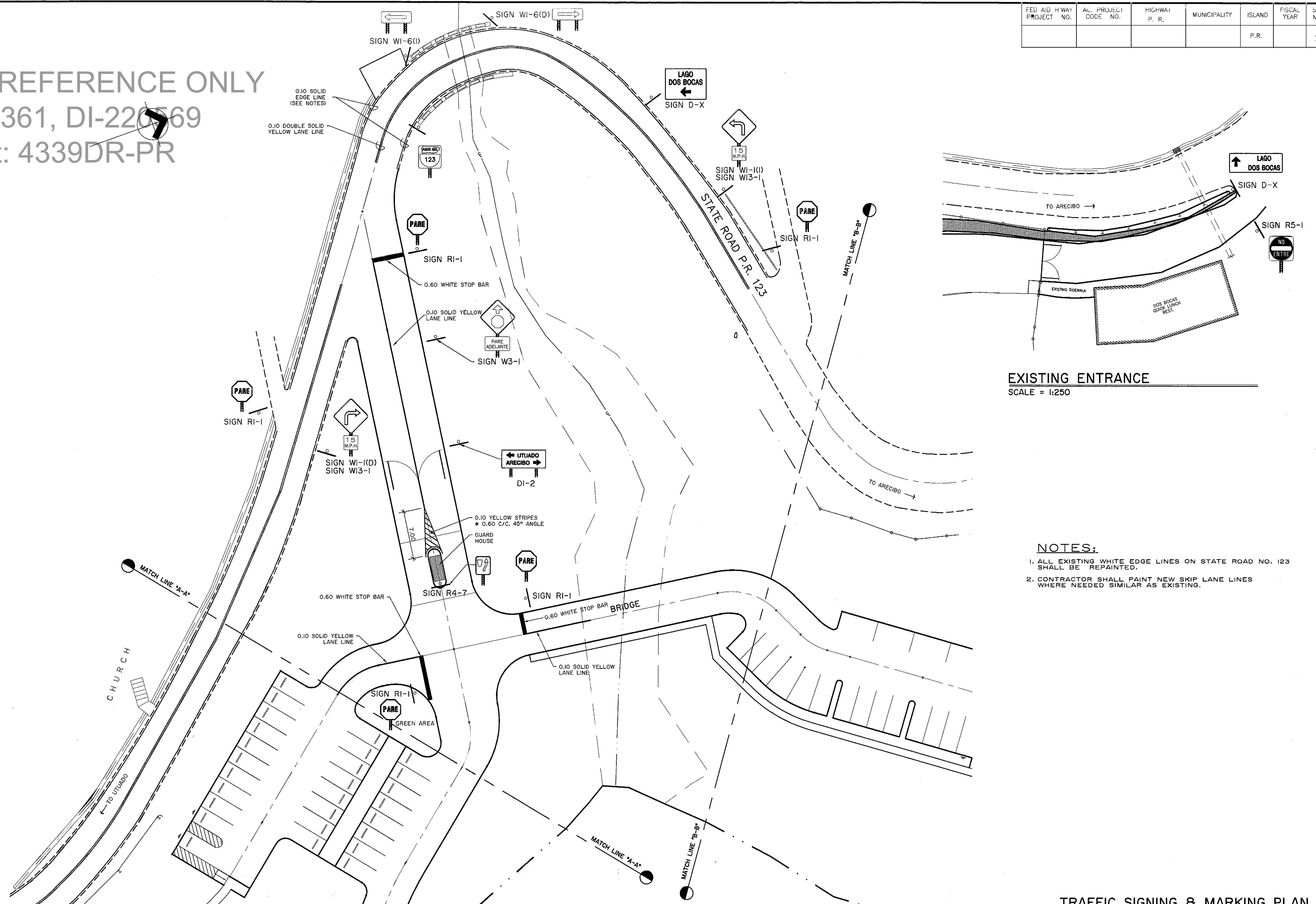
NOTES:

- ALL EXISTING WHITE EDGE LINES ON STATE ROAD NO. 123 SHALL BE REPAINTED.
- CONTRACTOR SHALL PAINT NEW SKIP LANE LINES WHERE NEEDED SIMILAR AS EXISTING.

FILE NAME: L2B5MC18.DWG

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				P.R.		24	181



EXISTING ENTRANCE
SCALE = 1:250

- NOTES:
1. ALL EXISTING WHITE EDGE LINES ON STATE ROAD NO. 123 SHALL BE REPAINTED.
 2. CONTRACTOR SHALL PAINT NEW SKIP LANE LINES WHERE NEEDED SIMILAR AS EXISTING.

TRAFFIC SIGNING & MARKING PLAN
SCALE = 1:250 (PARTIAL)

FILE NAME: L2B5MC18.DWG

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN, PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

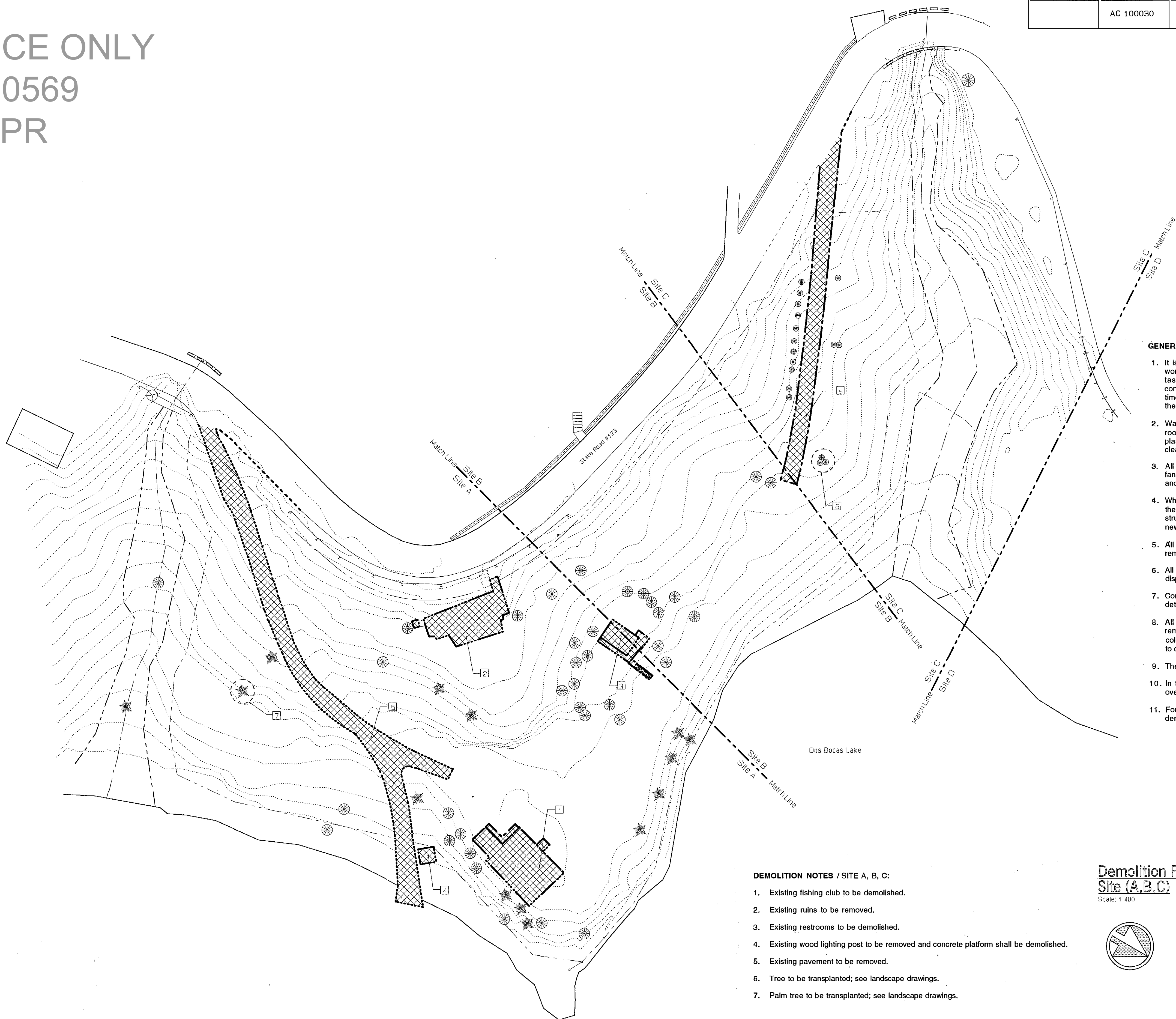
SCALE: 1:250

TRAFFIC SIGNING & MARKING PLAN
(PARTIAL)

C
20

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	25	181



GENERAL DEMOLITION & CLEANING NOTES / EMBARCADERO LAGO DOS BOCAS

1. It is not the intention of the Architects to cover all required demolition and cleaning work in these drawings, nor to anticipate every circumstance under which specific tasks shall be performed. Prior to submitting a Bid for restoration and construction work, it is understood that the Contractor has visited the site sufficient times to fully understand the Scope of the required demolition and cleaning work in the project.
2. Water blast all existing (to remain) surfaces, including floors, walls, ceilings, roofs, etc., with 2,000 lbs water pressure, remove all mildew fungus, loose plaster and/or paint. On concrete surfaces, any oxidized rebars to be thoroughly cleaned of any rust, and otherwise prepared for refinishing.
3. All existing doors and windows shall be removed as well as frames, fanlights/transoms, etc. All materials that can be saved shall be carefully removed and turned over to the Owner.
4. When demolishing for new openings or restoring original openings, as indicated in the drawings, extreme care must be taken not to debilitate the surrounding existing structure. Temporary shoring elements must be provided (if necessary) until the new or restored opening is structurally sound.
5. All existing exposed electrical conduits, panels, and other equipment shall be removed and disposed of.
6. All plumbing fixtures, piping, and other mechanical equipment shall be removed and disposed of as per owner's instructions.
7. Contractor shall protect, during the demolition process, any existing architectural details or moldings at facades (particularly Building 3).
8. All existing floor shall be accordingly prepared for their new finish; if necessary removing existing tiles or paint. In the case of polished cement (in some cases with colorant) or new ceramic tile, all surfaces shall be pecked with an electric hammer to create a harshness where new bond or epoxy can adhere.
9. The use of air hammers larger than the 25 lb size will not be permitted.
10. In the removal of any floor slab, assume the thickness of 9" of material, any excess over that shall be negotiated.
11. For additional demolition and cleaning notes, refer to specific notes on each demolition drawing.

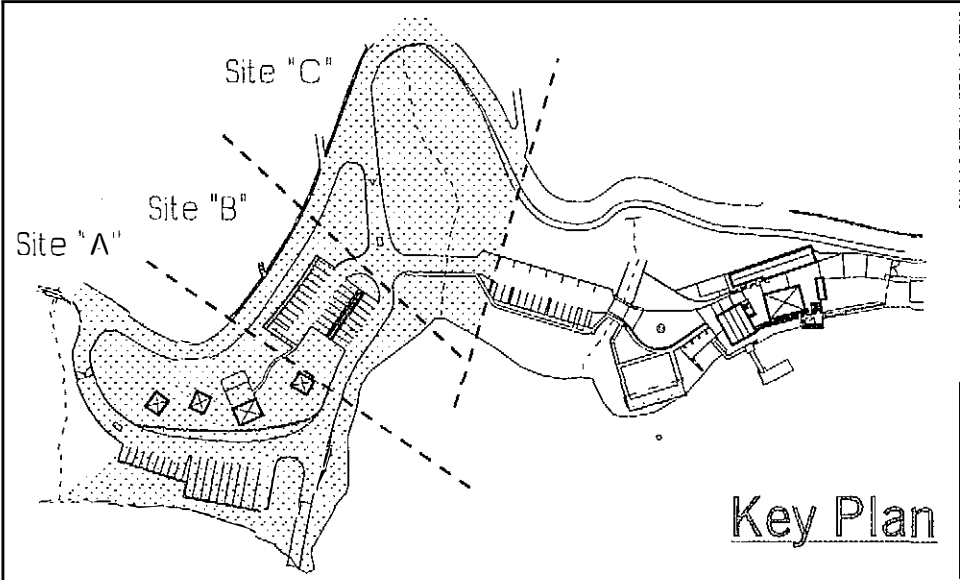
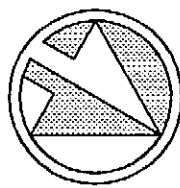
Key:

- Existing Structure to Remain
- Existing Structure to be Demolished
- Existing wall to be Demolished
- Existing Pavement to be Demolished
- Demolition Notes

DEMOLITION NOTES / SITE A, B, C:

1. Existing fishing club to be demolished.
2. Existing ruins to be removed.
3. Existing restrooms to be demolished.
4. Existing wood lighting post to be removed and concrete platform shall be demolished.
5. Existing pavement to be removed.
6. Tree to be transplanted; see landscape drawings.
7. Palm tree to be transplanted; see landscape drawings.

Demolition Plan
Site (A,B,C)
Scale: 1:400



Key Plan

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE

REVISIONS

SCALE: 1:400

Demolition Plan / Site Plan (A,B,C)

DS
01

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

DEMOLITION NOTES / SITE D:

- Existing concrete ramp to be demolished.
- Existing steel columns and roof to be removed.
- Existing concrete stairs to be demolished.
- Existing above ground fuel tank to be removed, in compliance with all pertinent US and PR Government regulations. General Contractor shall be responsible for securing all required permits.
- Existing concrete steps and platform to be demolished.
- Existing concrete warehouse to be demolished.
- Existing restroom to be demolished.
- Concrete retaining wall to be demolished.
- Existing concrete drainage channel to be demolished.
- Existing wood columns and roof structure to be removed.

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	26	101

- Existing steel stairs to be removed.
- Existing gate to be removed.
- Existing underground gasoline and diesel tanks to be removed, in compliance with all pertinent US and PR Government regulations. General Contractor shall be responsible for securing all required permits.
- Existing underground septic tank to be removed, in compliance with all pertinent US and PR Government regulations. General Contractor shall be responsible for securing all required permits.
- Existing above ground concrete septic tank to be removed, in compliance with all pertinent US and PR Government regulations. General Contractor shall be responsible for securing all required permits.
- Existing public telephone booth to be removed and stored to be eventually turned over to the Puerto Rico Telephone Company.

State Road P. R. 123

To ARECIBO

Dos Bocas Lake

Dos Bocas Lake

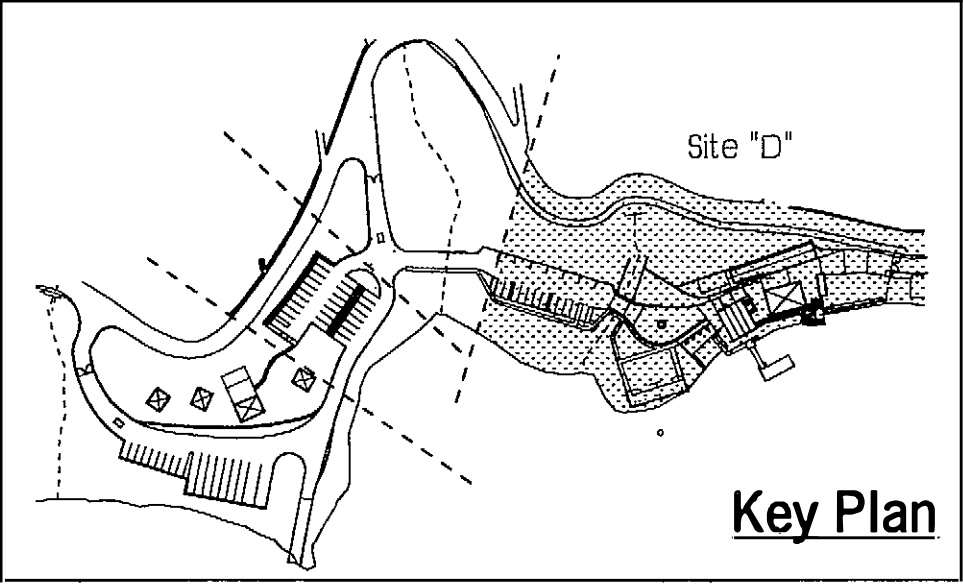
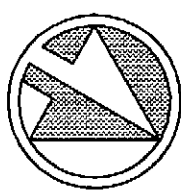
Dos Bocas Lake

Key:

- Existing Structure to Remain
- Existing Structure to be Demolished
- Existing wall to be Demolished
- Existing Pavement to be Demolished
- Demolition Notes

Demolition Plan
Site (D)

Scale: 1:200



Key Plan

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO

DATE

REVISIONS

SCALE: 1:200

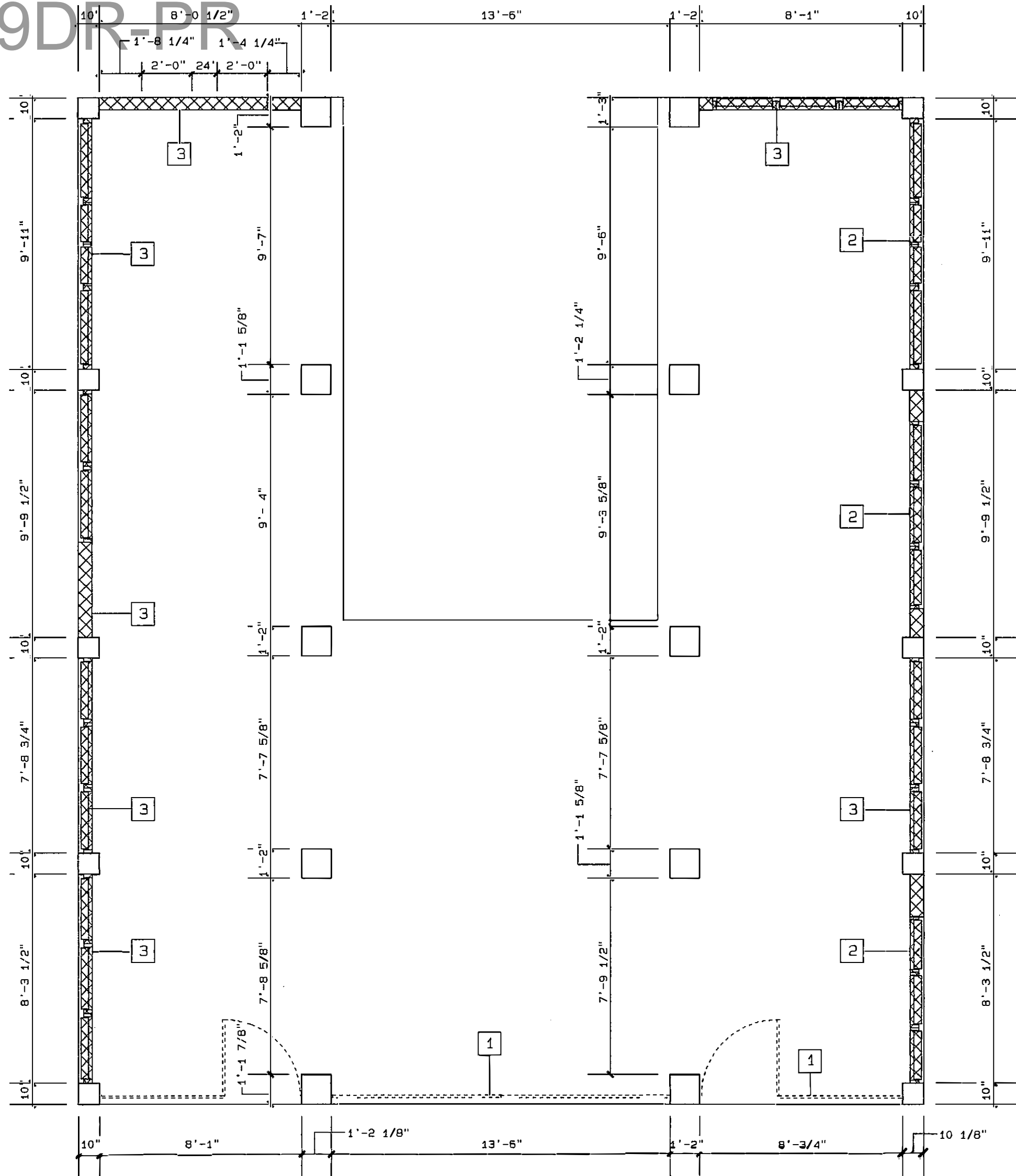
Demolition Plan / Site (D)

DS

02

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	27	181

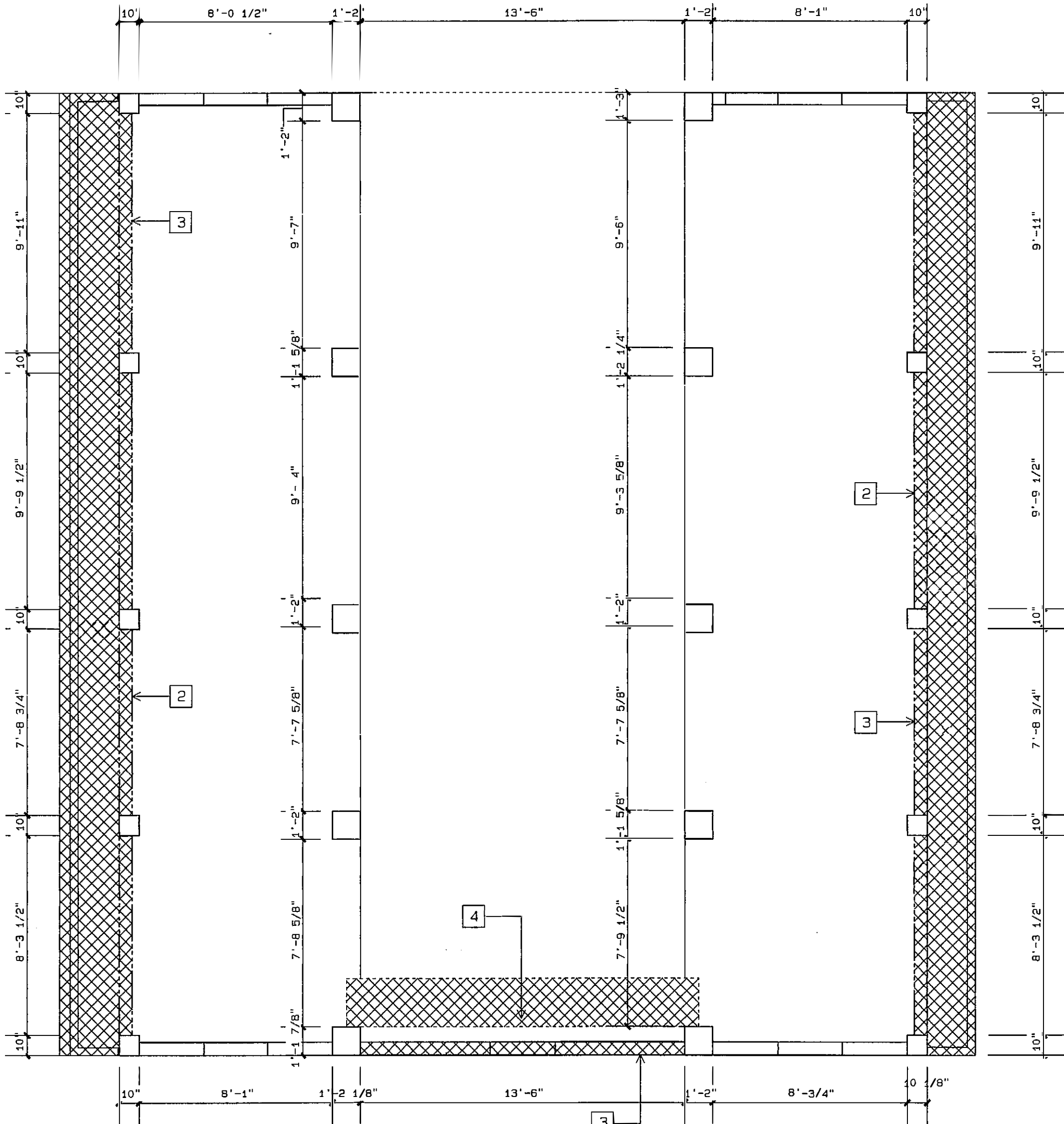


Demolition Plan /1st Floor

Building #2
Scale: 1/4"=1'-0"

DEMOLITION NOTES / Building #2

- All steel grilles to be removed.
- All concrete eaves to be demolished.
- Entire concrete and/or block infill wall (between columns) shall be demolished, including any windows.
- Metal catwalk to be removed.
- All existing roofs of this building shall be demolished. Care must be taken so that the existing steel beam crane and its structure is not removed or otherwise adversely affected. This mechanism shall be restored (in place) as part of the rehabilitation work.

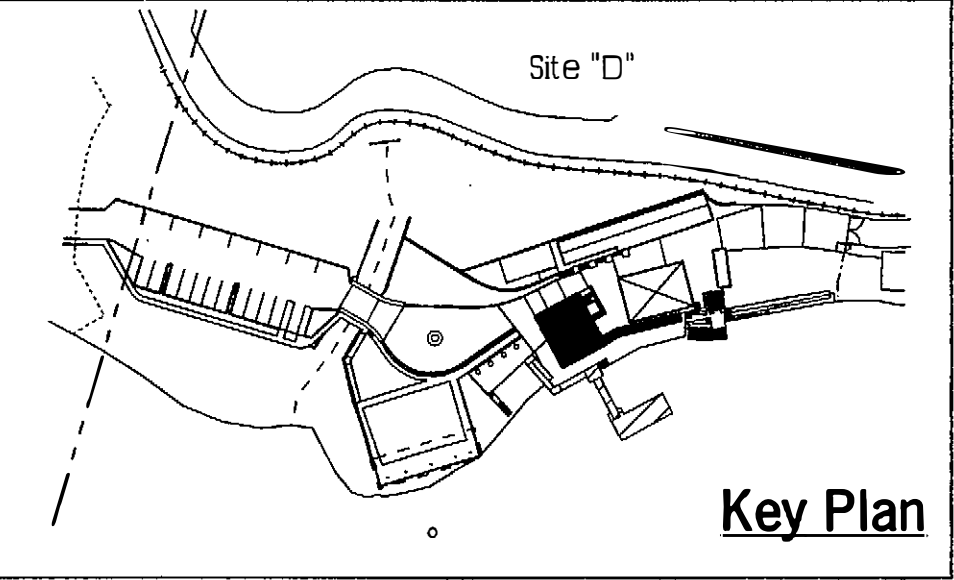


Demolition Plan /2nd Floor

Building #2
Scale: 1/4"=1'-0"

Key:

- Existing Structure to Remain
- Existing Structure to be Demolished
- Existing wall to be Demolished
- Existing Pavement to be Demolished
- Demolition Notes



Key Plan

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE

REVISIONS

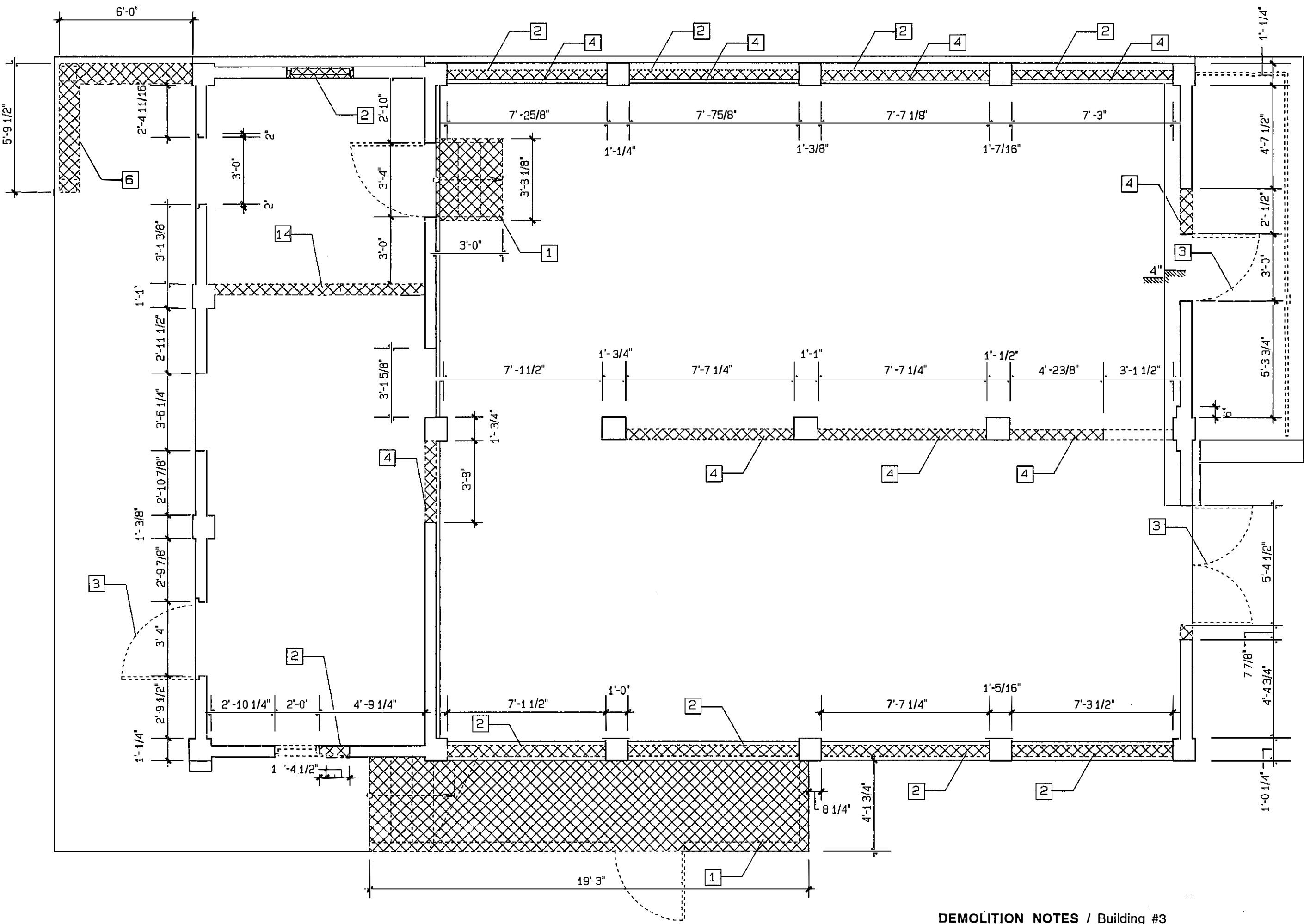
SCALE:1/4":1'-0"

Demolition plan
Building #2

D2
01

FED AID H'WAY PROJECT .NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	23	181

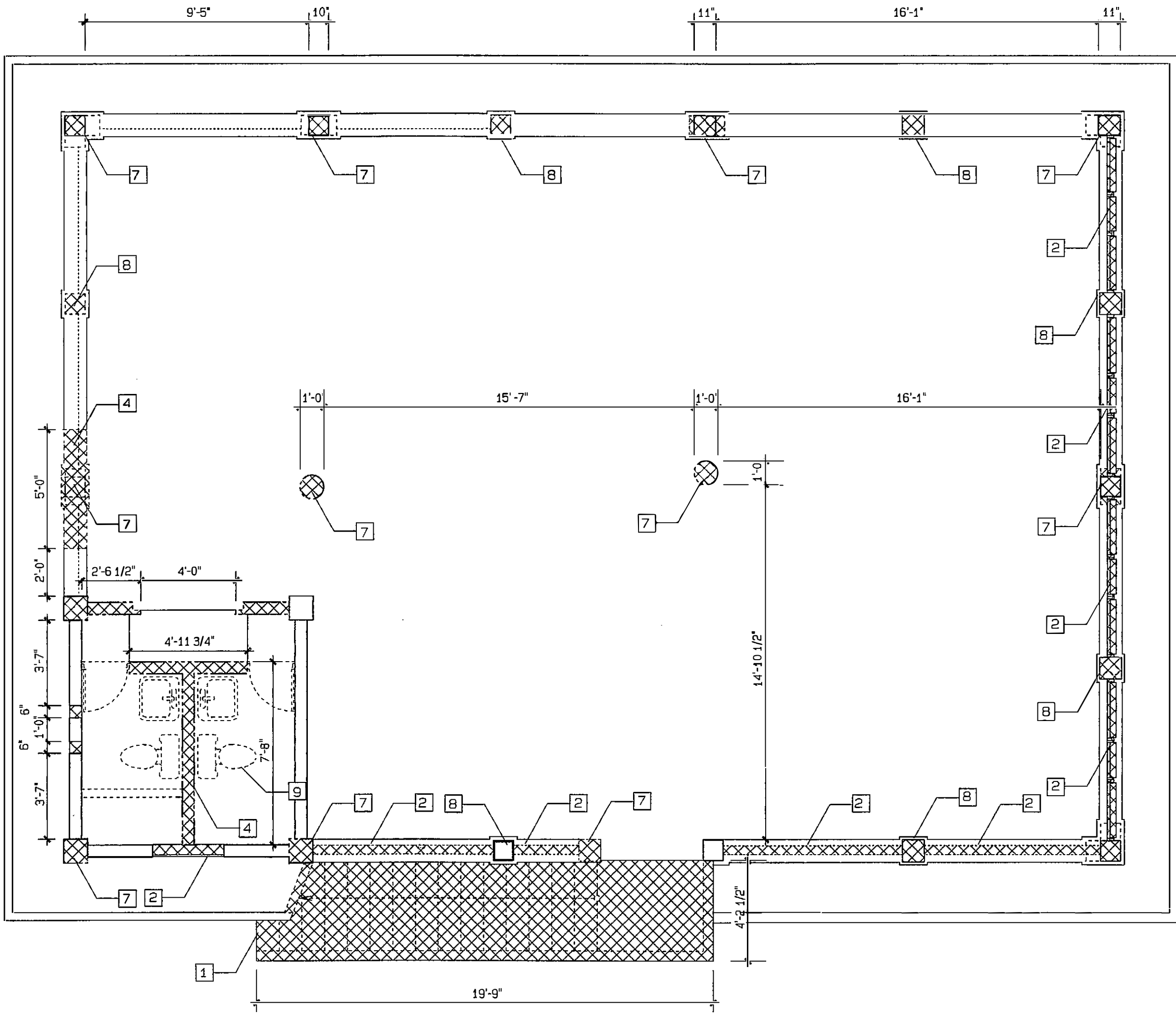
FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



Demolition Plan/Building #3
1st Floor
Scale: 1/4"=1'-0"

DEMOLITION NOTES / Building #3

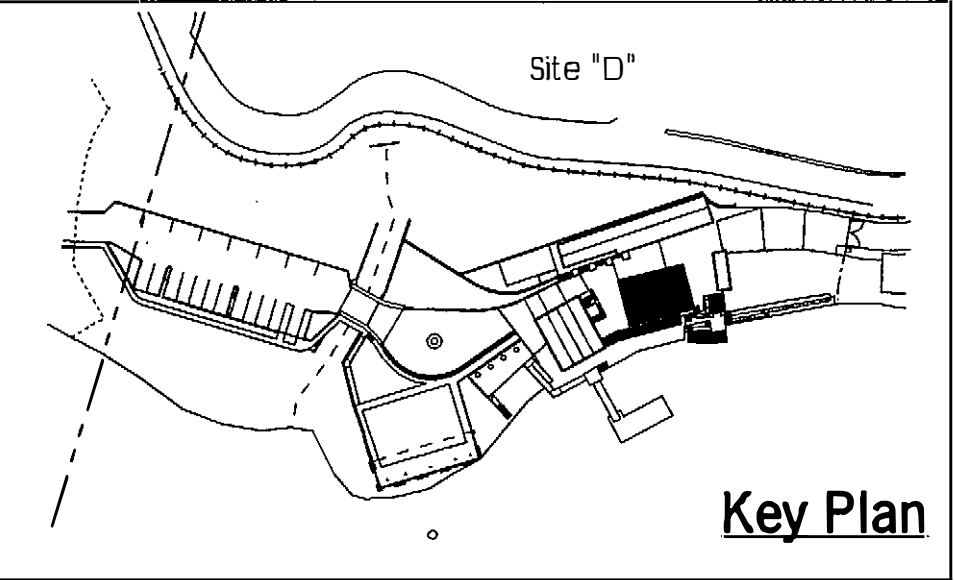
- Existing concrete stairs to be demolished.
- All existing windows shall be removed.
- All existing doors shall be removed.
- Concrete and/or block wall to be demolished.
- Wood steps to be demolished.
- Entire concrete veranda to be demolished.
- All concrete columns of the entire second level shall be demolished.
- All wood columns shall be removed.
- Existing bathrooms to be demolished, including removal of all piping, fixtures and equipment. The elevated concrete floor shall also be demolished as required for new (flush) floor finish.
- Although they are not indicated in this drawing, all wood wall partitions in this area shall be removed.
- The existing roof and ceiling of the entire second level shall be demolished; including the reinforced concrete roof over the bathrooms.



Demolition Plan/Building #3
2nd Floor
Scale: 1/4"=1'-0"

Key:

- Existing Structure to Remain
- Existing Structure to be Demolished
- Existing wall to be Demolished
- Existing Pavement to be Demolished
- Demolition Notes



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE REVISIONS

SCALE:1/4":1'-0"

Demolition Plan
Building #3

D3
01

FED AID H'WAY PROJECT NO.				AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
				AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1995	29	181

FOR REFERENCE ONLY

PW-8361-DL-220569

CONTRACT

SUMMARY OF THE WORK

Project Description

The project involves the reconstruction and expansion of the existing «Embarcadero del Lago Dos Bocas» to serve as a stimulus for recreational/tourism in this somewhat isolated sector of the Island. An almost four (4) acre lot will be added site to provide much needed parking space; the total site will then be approximately seven (7) acres. The land belongs to the «Autoridad de Energía Eléctrica» (AEE), but the operations are administered by the «Departamento de Transportación y Obras Públicas» (DTOP).

The ferry service of existing «embarcadero» has served as transportation means for various families that were isolated when the Dos Bocas Reservoir was created in 1939. In the last few years it has also become a tourist attraction as well as a way of accessing a series of restaurants that have sprouted along the lake's edge. The existing structures at the embarcadero include an administration building, a dry dock facility for the ferries and a bathroom/storage edifice, as well as various free-standing roofs. The following (basic) program, developed by the Compañía de Turismo, is proposed for this reconstruction and expansion project:

1. North Site

a. Building No. 1 (new) Public Restrooms, Employee's Area and Shop/ Storage Building.

b. Building No.2 (existing dry dock): first level - ferry ticket with waiting area and commercial/rental space, second level - administrative offices and exhibition area; includes new stairs and means for the handicapped (wheelchair lift).

c. Building No. 3 (existing administration): first level - administrative offices and commercial area, second level - presentation space with restroom and service area; includes new stairs and means for the handicapped (wheelchair lift).

d. Two (2) New covered resting areas.

e. New wood boardwalk and floating dock.

f. Revamped parking facilities.

g. New structure for gasoline tank and pump.

2. New Bridge Between Sites

3. South Site

a. New access roads with two (2) guard booths.

b. New parking facilities.

c. New boat ramp.

d. New restroom facilities and resting area

e. Three new (3) picnic kiosks.

Outline of Scope of Work

1. Provide and install new crash barriers along the entire edge of Road #123.

2. Install new fencing system enclosing the Embarcadero property.

3. Construction of two (2) new guard booths; each with a bathroom.

4. Fabricate and install two new entrance gates for the parking area.

5. Demolition of the Fishermen's Clubhouse.

6. Demolition of the existing concrete boat ramp.

7. Construction of the new boat ramp.

8. Construction of four new gazebos along the parking area.

9. Construction of new restrooms, utilities and janitor area for the parking site.

10. Construction of a new pathway between gazebos.

11. Pavement of site for two(2) new parking areas; 36 car spaces,7 boat trailer spaces and 2 bus spaces.

12. Construction of a new access bridge between the existing Embarcadero site and the new parking area.

13. Redesign and repavement of existing parking area, Embarcadero site.

14. Construction of new pedestrian walkway along the existing parking area (site D.)

15. Construct new concrete waste container and provide garbage receptacle.

16. Regrading of the Embarcadero area.

17. Removal of bitumul from the Embarcadero main street to allow for new planting areas.

18. Construction of new resting area's (#1) roof structure with twenty four(24) new benches and twelve (12) new tables.

19. Construction of new wooden pergola.

20. Installment of two(2) new flagpoles.

21. Construction of new wooden boardwalk anf floating dock.

22. Repavement of the Embarcadero street.

General Legend:

Existing Wall

New concrete wall/Column

New Block Wall

AS-04

Window Designation

AS-01

Door Designation

777

Finishes

7

See Building Notes

Section Designation
Drawing sheet where section is shown

Wall Section Designation
Drawing sheet where wall is shown

Detail Designation
Drawing sheet where detail is shown

23. Construction of new resting area's (#2) roof structure with concrete bench.

24. Fabricate and install new service and pedestrian gate.

25. Demolition of existing restrooms and storage structure.

26. Construction of new restrooms, janitor, employees' area and warehouse building (Building #1.)

27. Fabricate and install kitchenette cabinets at employees' area.

28. Fabricate and install storage shelves at warehouse.

29. Construction of steps to access the warehouse from the restrooms(Building #1.)

30. Provide vending machines and water cooler container.

31. Demolition of existing concrete boat ramp at the Embarcadero site.

32. Replace dry dock's metal roof for a new one (Building #2.)

33. Restoration of Building #2 existing crane, in place.

34. Rehabilitation of existing dry dock (Building #2) for tickets sale and concession areas, waiting area and exhibition space (second floor.)

35. Construction of two concrete vertical cores at Building #2 to serve as storage and as porch-lift core.

36. Installment of porch-lift.

37. Construction of wooden floor connecting the two aisles at the second level of Building #2.

38. Construction of new exterior stair (Building #2.)

39. Fabricate and install service counters and shelves at the tickets sale and concession areas.

40. Fabricate and install benches for the waiting areas (Building #2).

41. Replacement of all existing jealousy windows and provide new windows where specified.

42. Install new exterior doors and locks for Building #2.

43. Install new roll-up grille at the interior of Building #2.

44. Construction of balcony at second level of Building #2.

45. Construction of concrete steps down to Building #2 side access.

46. Construction of boardwalk on center of Building #2's interior.

47. Regrading and repavement of square between Building #2 and #3.

48. Installment of new lighting fixtures and roof fans.

49. Install new quarry tile floor finish at first level, and new wooden floor finish at the second level of Building #2.

50. Install galvanized steel deck panels to cover exterior walls of Building #2.

51. Removal of all glass, plywood panels and partitions at second level of Building #3.

52. Replacement of all jealousy windows, Building #3.

53. Install new exterior doors and locks of Building #3.

54. Demolition of exterior concrete stair.

55. Construction of new concrete interior stair to access second floor.

56. Construction of new porch-lift core and installment of new porch-lift.

57. Construction of new steps to access the commercial space from the information center area.

58. Demolition of lower wall (facing the lake) of Building #3 at the commercial space to provide access to the boardwalk.

59. Construction of wooden steps to access the boardwalk from Building #3.

60. Demolition of all columns of the second floor of Building #3.

61. Construction of new concrete columns on the second floor, aligning with the ones at the first level.

62. Removal of existing roof and construction of a new one (Building #3.)

63. Demolition of concrete round columns at the second level (Building #3.)

64. Redesign restroom at second level, replacing all plumbing fixtures, bathroom accessories, wall and floor tiles (building #3.)

65. Construction of new janitor and service area on second level(Building #3.)

66. Fabricate and install counter and cabinets of service area.

67. Install service sink at janitor and service area.

68. Install new lighting fixtures and roof fans at Building#3.

69. Reconstruct missing eave segment of Building #3, where exterior stair to be demolished exists.

70. Reconstruction of mouldings at second floor columns' base.

71. Removal of all ornamental blocks at second floor verandas, and filling of voids with concrete, as specified on the Drawings.

72. Installment of metal railing all around second presentation area.

73. Replacement of concrete veranda outside Building #3 for a new metal guard rail.

74. Installment of new quarry tile floor finish (Building #3).

Bidder/Contractor shall refer to Contract Drawings (plans, details, notes, schedules, etc.), Specifications and other Documents to encompass the full extent of the SCOPE OF WORK. This outline is intended to help orient the Bidder/Contractor in the comprehensive understanding of this project.

FINISH DESCRIPTIONS / EMBARCADERO LAGO DOS BOCAS

FLOORS

BF

Broom Finish

Pigmented cement surface, minimum 2" thickness, finished with a parallel sweep of a large thick-haired broom. A maximum size 60"x60" grid to be established with "V" grooves before the cement dries, edges to be steel-trowelled. Cement mixture shall be Portland cement, fine sand and a color pigment by DAVIS COLORS (12116 Conway Rd., Beltsville, Maryland 20705, tel: 1-800-638-4444), color no. 5447, Mesa Buff, mixed with 40% water & 60% LATICRETE 3701 Grout and Mortar Admixture.

QT

Quarry Tile

SUMMITVILLE, Quarry Tile, Size: 6"x6"x1/2"; No. 11 - Sun Glo color.

QTA

Quarry Tile Abrasive

SUMMITVILLE, Quarry Tile, Size: 6"x6"x1/2"; abrasive surface, No. 11 - Sun Glo color.

TGWB

Tongue and Groove Wood Boards

Treated Southern Yellow Pine planks, oven dried at 12% maximum humidity, square edge, 7/8" thick x 3" wide x random length, over 3/4" pressure treated plywood; machine sand entire surface and finish with three (3) coats of THOMPSON'S Water Seal (penetrating oil), light sand between each coat.

STPC

Steel Troweled Cement

Pigmented cement surface, minimum 2" thickness, maximum size 60"x60" grid to be established with "V" grooves before the cement dries. Cement mixture shall be Portland cement, fine sand and a color pigment by DAVIS COLORS (12116 Conway Rd., Beltsville, Maryland 20705, tel: 1-800-638-4444), color no. 5447, Mesa Buff, mixed with 40% water & 60% LATICRETE 3701 Grout and Mortar Admixture.

WALLS

AP

Acrylic Paint

MOBILE PAINT - Mopacote BLP 100% acrylic paint; prepare surfaces with 6-06 Weather-Tite 100% Acrylic Primer. Five (5) colors to be selected by the Architect.

EP

Enamel Paint

MOBILE PAINT - Jacktar Oil; silicone enamel base, 432 series; prime as per specifications. Three (3) colors to be selected by the Architect.

MGT

Matte Glazed Tiles

FLORIDA TILE, Matte Glaze, size: 6"x6"x5/16", color: Bone White No. 703, accent tile: FLORIDA TILE Crystal Glaze, size: 2"x2"x5/16", color: Wicker No. 6127.

PP

Plaster & Paint

Smooth cement plaster and paint with acrylic paint: MOBILE PAINT - Mopacote BLP 100% acrylic paint; prepare surfaces with 6-06 Weather-Tite 100% Acrylic Primer. Five (5) colors to be selected by the Architect.

PPE

Plaster & Paint Existing

Plaster and paint existing surfaces; remove all old paint with hydroblasting and chip holes in entire surface to receive new plaster; apply BULLBOND latex bonding agent, plaster with cement plaster mixed with 50% water and 50% LATICRETE 3701 Grout and Mortar Admixture; prime surfaces with 6-06 Weather-Tite 100% Acrylic Primer; paint with acrylic paint: MOBILE PAINT - Mopacote BLP 100% acrylic paint; five (5) colors to be selected by the Architect.

BASE

MGT

Matte Glazed Tiles

FLORIDA TILE, Matte Glaze, size: 6"x6"x5/16", color: Bone White No. 703.

QT

Quarry Tile

SUMMITVILLE, Quarry Tile, Size: 6"x6"x1/2"; No. 11 - Sun Glo color.

TW

Treated Wood

Treated Southern Yellow Pine boards dried at 12% maximum humidity, bullnose edge 3/4" thick x 3-1/2" high x random length, attach with countersunk 2" TAPCON aluminum screws every 18" & cover with 1/2" wood plugs; sand entire surface after installation and finish with three (3) coats of THOMPSON'S Water Seal (penetrating oil), light sand after first coat.

CEILINGS

TW

Treated Wood

Treated Southern Yellow Pine treated wood boards, oven dried at maximum 12% humidity, V-groove edge, (known locally as "ceiling") divided in half by V-groove, 3/8" thick x 5-1/2" wide x random length over 3/4" pressure treated plywood; machine sand entire surface and finish with three (3) coats of THOMPSON'S Water Seal (penetrating oil), light sand between each coat.

PP

Plaster & Paint

Smooth cement plaster and paint with acrylic paint: MOBILE PAINT - Mopacote BLP 100% acrylic paint; prepare surfaces with 6-06 Weather-Tite 100% Acrylic Primer. Five (5) colors to be selected by the Architect.

PPE

Plaster & Paint Existing

Plaster and paint existing surfaces; remove all old paint with hydroblasting and chip holes in entire surface to receive new plaster; apply BULLBOND latex bonding agent, plaster with cement plaster mixed with 50% water and 50% LATICRETE 3701 Grout and Mortar Admixture; prime surfaces with 6-06 Weather-Tite 100% Acrylic Primer; paint with acrylic paint: MOBILE PAINT - Mopacote BLP 100% acrylic paint; five (5) colors to be selected by the Architect.

RPE

Restore & Paint Existing

Restore and paint existing surfaces; remove loose plaster and paint; apply BULLBOND latex bonding agent to large (1/2" deep) affected areas, plaster with BONSAL Vinyl Concrete Patch mixed with 50% water and 50% LATICRETE 3701 Grout and Mortar Admixture; apply DAP Exterior Spackle to less deep imperfections and sand smooth; prime surfaces with 6-06 Weather-Tite 100% Acrylic Primer; paint with acrylic paint: MOBILE PAINT - Mopacote BLP 100% acrylic paint; five (5) colors to be selected by the Architect.

STAIRS / STEPS

STR-1

Stair Type 1

Treads: broom finished pigmented cement surface, see BF above; Bullnosing (leading edge): steel troweled pigmented cement surface, see STC above; Riser: steel troweled pigmented cement surface, see STC above.

STR-2

Stair Type 2

Same as STR-1 above.

STR-3

Stair Type 3

Treads: broom finished pigmented cement surface, see BF above, set in galvanized steel shape as indicated in details, including nosing and riser. Steel to be finished as indicated in Technical Specification Section 05510 - Metal Work: Fence, Railings, Gates, Etc., paragraph 7.01 (Painting).

STR-4

Stair Type 4

Treads: broom finished pigmented cement surface, see BF above; Bullnosing (leading edge): WOOSTER PRODUCTS Type 312; Riser: steel troweled pigmented cement surface, see STC above.

STR-5

Stair Type 5

Same as STR-4 above.

STR-6

Stair Type 6

All surfaces: SUMMITVILLE, Quarry Tile, No. 11 Sun Glo color; Treads: standard size: 6"x6"x1/2"; Bullnosing (leading edge): trim shapes Q 6665, QSL 6665 & QSR 6665, size: 6"x6"x3/4" (1-1/2" nose); Risers: cove bases Q3566, QB 3566, QCL 3566, QCR 3566, QSL 3566 & QSR 3566, size: 5"x6"x1/2".

OTHER FINISHES as indicated in drawings (plans, elevations, sections, details, etc)

CP-1

Concrete Pavers Type 1

BLOQUES CARMELO, precast pigmented concrete paving units («Adoquines»), San Juanero, 4"x8"x2-3/8" size; colors to be selected by Architect.

CP-2

Concrete Pavers Type 2

BLOQUES CARMELO, precast pigmented concrete paving units («Adoquines»), Dorado (square), 12"x12"x2-3/8" size; colors to be selected by Architect.

EA

Exposed Aggregate

Aggregate mixture, minimum 2" thickness, set on-site composed of Portland , river (thick) sand & quarry limestone aggregate (yellow Manati). A maximum size 60"x60" grid to be established with 1/4"x1-1/2" bronze dividing strips.

BH

Bush Hammered Concrete

New or Existing reinforced concrete surface to be textured with pneumatically operated power hammer fitted with disc-type head (21 cutting points in "pyramid/ meat tenderizer" shape [3/16"x3/16"]), 1,500 blows per minute. Sample to be produced and approved by Architect before proceeding with entire surfaces.

TW

Treated Wood

Treated Southern Yellow Pine treated wood boards, oven dried at maximum 12% humidity, V-groove edge, (known locally as "ceiling") divided in half by V-groove, 3/8" thick x 5-1/2" wide x random length; machine sand entire surface and finish with three (3) coats of THOMPSON'S Water Seal (penetrating oil), light sand between each coat.

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

JRC DAVIS PAGAN

CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS

UTUADO / ARECIBO

PUERTO RICO

DATE

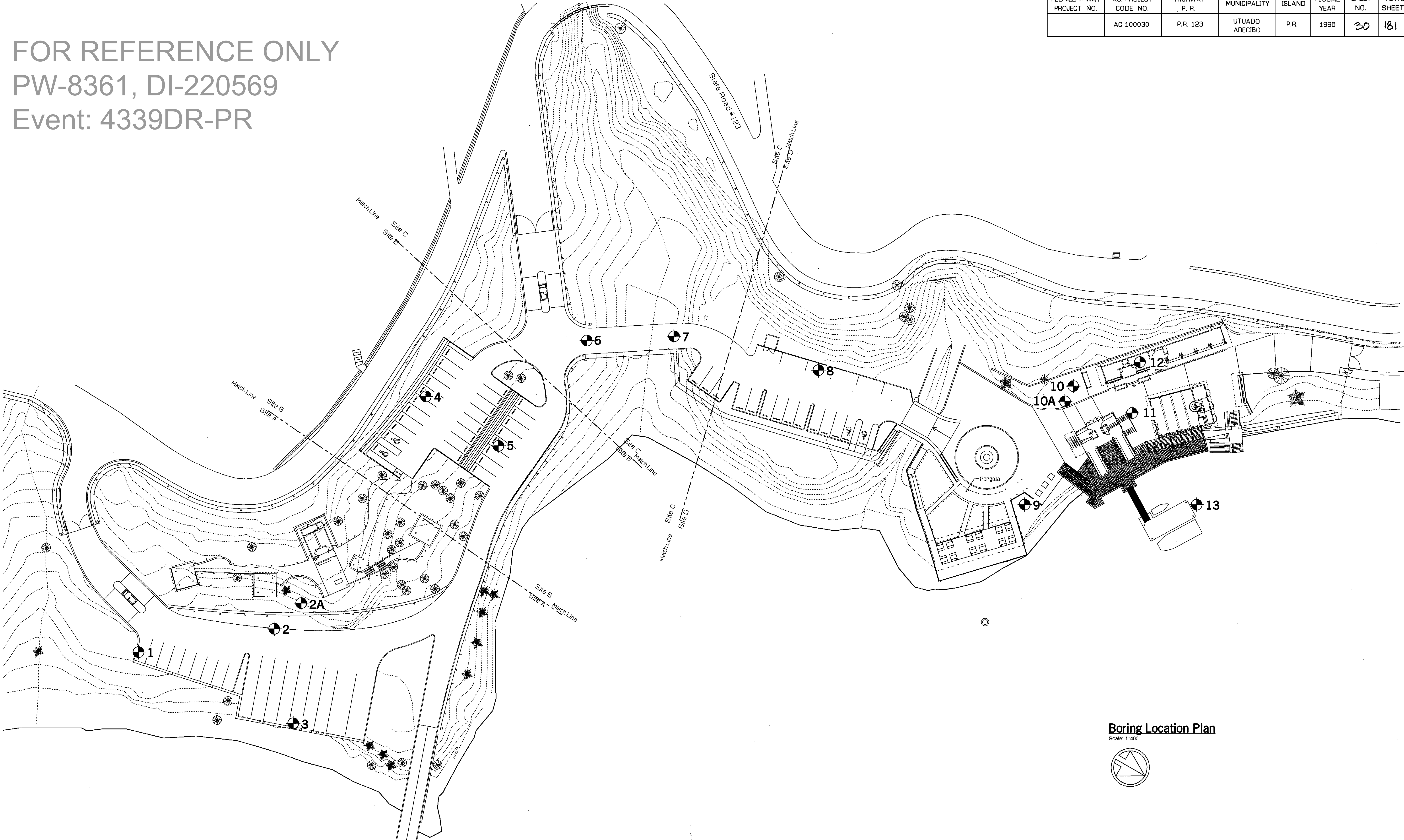
REVISIONS

GENERAL INFORMATION

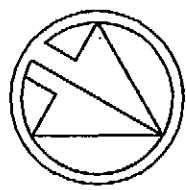
GI01

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PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	30	181



Boring Location Plan
Scale: 1:400



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE: 1:400

BORING LOCATION PLAN

SS
01

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG
PROJECT: EMBARCADERO DOS BOCAS, UTUADO, PUERTO RICO

BORING NO.: 1
Job No. 2482
Sheet 1 of 1

Spoon : 1.375"ID Hammer: 140# Drop : 30"	Driller : M. ALVAREZ Method : AUGER Drill Type: CME-45	Date Started : 08/31/95 Date Completed: 08/31/95 Total Depth : 14.5	WATER LEVEL: Date : 09/01/94 Depth: NOT OBSERVED	N < 100 = 7.5 N > 100 = 7 CORE = --				
Depth ft	Samp No.	Recov %	S.P.T. values	RQD %	Description of material	SPT-N values	Qu TSF	Moist Cont%
0	1	100	3-3-4		Clayey silt, little sand, roots, dark brown	7		44
	2	100	3-4-6		Silty coarse sand, trace cemented, trace clayey pockets, dark brown (maybe old fill)	10		23
5	3	100	10-21-50		Clayey silt, little sand, occasional roots, gray and brown	71		31
	4	67	35-70/5"- --		Decomposed rock sampled as silty coarse sand trace gravel size rock fragments, brown	70/5"		21
10	5	28	60/5"---- --		trace clayey pockets	60/5"		19
	6	22	60/5"---- --			60/5"		19
15					END OF TEST HOLE - 14.5 FT			
20								
25								
30								

N values are the number of blows required to drive the sampling spoon a distance of twelve inches with a 140 lbs hammer falling 30 inches. Natural Moisture Content (2) is expressed in percentage of its dry weight. Unconfined Compressive Strength (Qu) values are expressed in tons per square foot.

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG
PROJECT: EMBARCADERO DOS BOCAS, UTUADO, PUERTO RICO

BORING NO.: 4
Job No. 2482
Sheet 1 of 1

Spoon : 1.375"ID Hammer: 140# Drop : 30"	Driller : M. ALVAREZ Method : AUGER Drill Type: CME-45	Date Started : 09/12/95 Date Completed: 09/12/95 Total Depth : 7.5	WATER LEVEL: Date : 09/12/94 Depth: NOT OBSERVED	N < 100 = 6 N > 100 = 1.5 CORE = --				
Depth ft	Samp No.	Recov %	S.P.T. values	RQD %	Description of material	SPT-N values	Qu TSF	Moist Cont%
0	1	100	4-6-11		Sandy-clayey silt, occasional gravel size rock fragments, occasional roots,	17		29
	2	100	14-35-60		Decomposed rock sampled as silty medium sand, trace gravel size rock fragments, brown, trace clayey pockets	95		17
5	3	61	39-60/5"----			60/5"		17
	4	22	70/4"-----			70/4"		
10					END OF TEST HOLE - 7.5 FT			
15								
20								
25								
30								
35								

N values are the number of blows required to drive the sampling spoon a distance of twelve inches with a 140 lbs hammer falling 30 inches. Natural Moisture Content (2) is expressed in percentage of its dry weight. Unconfined Compressive Strength (Qu) values are expressed in tons per square foot.

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG
PROJECT: EMBARCADERO DOS BOCAS, UTUADO, PUERTO RICO

BORING NO.: 2
Job No. 2482
Sheet 1 of 1

Spoon : 1.375"ID Hammer: 140# Drop : 30"	Driller : N. ALVAREZ Method : AUGER Drill Type: CME-45	Date Started : 08/30/95 Date Completed: 08/30/95 Total Depth : 19.5	WATER LEVEL: Date : 08/31/94 Depth: NOT OBSERVED	N < 100 = 12 N > 100 = 7.5 CORE = --				
Depth ft	Samp No.	Recov %	S.P.T. values	RQD %	Description of material	SPT-N values	Qu TSF	Moist Cont%
0	1	100	4-3-5		Clayey silt, trace to little sand, trace caliche occasional black veins, grayish brown	8	0.9	49
	2	100	3-4-5			9	1.4	46
5	3	100	16-21-30		Decomposed rock sampled as silty sand, trace gravel size rock fragments, brown	51		19
	4	100	20-35-35			70		17
10	5	56	32-50/4"- --			50/4"		18
	6	39	35-60/3"- --			60/3"		18
15	7	11	50/5"- --			50/5"		12
20					END OF TEST HOLE - 19.5 FT			

N values are the number of blows required to drive the sampling spoon a distance of twelve inches with a 140 lbs hammer falling 30 inches. Natural Moisture Content (2) is expressed in percentage of its dry weight. Unconfined Compressive Strength (Qu) values are expressed in tons per square foot.

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG
PROJECT: EMBARCADERO DOS BOCAS, UTUADO, PUERTO RICO

BORING NO.: 5
Job No. 2482
Sheet 1 of 1

Spoon : 1.375"ID Hammer: 140# Drop : 30"		Driller : R. ALVAREZ Method : AUGER Drill Type: CME-45		Date Started : 09/01/95 Date Completed: 09/01/95 Total Depth : 20		WATER LEVEL: Date : 09/01/94 Depth: NOT OBSERVED		N < 100 = 19.5 N > 100 = 0.5 CORE = --	
Depth ft	Samp No.	Recov %	S.P.T. values	RQD %	Description of material	SPT-N values	Qu TSF	Moist Cont%	
0	1	100	2-3-3		Silty clay, some silty sand, few cemented, roots, brown	6		34	
	2	100	4-5-8			15	2.1	46	
5	3	100	4-6-10		Silty clay, sand traces, yellowish brown, black mottled, pale brown and orange mottled	16	2.5	42	
	4	100	6-9-13			22	3.6	46	
10	5	100	5-8-15		Sandy-clayey silt, yellowish brown	23		41	
	6	100	24-41-50		Decomposed rock sampled as silty coarse sand, trace clayey pockets, trace gravel size rock fragments, brown	91		17	
15	7	61	36-60/5"- --			60/5"		15	
20					END OF TEST HOLE - 20 FT				
25									
30									
35									

N values are the number of blows required to drive the sampling spoon a distance of twelve inches with a 140 lbs hammer falling 30 inches. Natural Moisture Content (2) is expressed in percentage of its dry weight. Unconfined Compressive Strength (Qu) values are expressed in tons per square foot.

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG
PROJECT: EMBARCADERO DOS BOCAS, UTUADO, PUERTO RICO

BORING NO.: 2-A
Job No. 2482
Sheet 1 of 1

Spoon : 1.375"ID Hammer: 140# Drop : 30"	Driller : M. ALVAREZ Method : AUGER Drill Type: CME-45	Date Started : 09/08/95 Date Completed: 09/08/95 Total Depth : 19.5	WATER LEVEL: Date : 09/08/94 Depth: NOT OBSERVED	N < 100 = 10 N > 100 = 9.5 CORE = --				
Depth ft	Samp No.	Recov %	S.P.T. Values	RQD %	Description of material	SPT-N Values	Qu TSF	Moist Cont%
0	1	100	1-2-2		Silty coarse sand, trace clayey pockets, little weathered gravel size rock fragments, dark brown, some clayey lenses, very dark gray	4		14
	2	100	2-2-2			4		18
5	3	100	8-10-16		Silty coarse sand, trace clayey pockets, dark brown	26		16
	4	100	14-18-21			39		21
10	5	56	43-50/4"-		Decomposed rock sampled as silty sand, brown, trace gravel size rock fragments	50/4"		6
	6	22	50/4"----			50/4"		8
15	7	17	60/4"----			60/4"		6
20						END OF TEST HOLE - 19.5 FT		
25								
30								

N values are the number of blows required to drive the sampling spoon a distance of twelve inches with a 140 lbs hammer falling 30 inches. Natural Moisture Content (2) is expressed in percentage of its dry weight. Unconfined Compressive Strength (Qu) values are expressed in tons per square foot.

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG
PROJECT: EMBARCADERO DOS BOCAS, UTUADO, PUERTO RICO

BORING NO.: 6
Job No. 2482
Sheet 1 of 1

Spoon : 1.375"ID Hammer: 140# Drop : 30"	Driller : M. ALVAREZ Method : AUGER Drill Type: CME-45	Date Started : 09/01/95 Date Completed: 09/01/95 Total Depth : 14.5	WATER LEVEL: Date : 09/01/94 Depth: NOT OBSERVED	N < 100 = 11 N > 100 = 3.5 CORE = --				
Depth ft	Samp No.	Recov %	S.P.T. values	RQD %	Description of material	SPT-N values	Qu TSF	Moist Cont%
0	1	100	1-2-3			5	1.0	47
	2	100	4-5-6		Silty clay, sand traces, occasional roots, very dark brown, red and black mottled, yellowish brown	11	1.0	54
5	3	100	13-14-17		Silty medium sand, trace clayey pockets, yellowish brown, grayish brown mottled, few cemented	31		23
	4	100	15-21-29			50		19
10	5	61	24-50/5"--- --		Decomposed rock fragments, sampled as silty medium sand, some gravel size rock fragments, occasional black joints, brown	50/5"		11
	6	0	50/3"---- --			50/3"		
15					END OF TEST HOLE - 14.5 FT			
20								
25								
30								
35								

N values are the number of blows required to drive the sampling spoon a distance of twelve inches with a 140 lbs hammer falling 30 inches. Natural Moisture Content (2) is expressed in percentage of its dry weight. Unconfined Compressive Strength (Qu) values are expressed in tons per square foot.

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	21	181

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG
PROJECT: EMBARCADERO DOS BOCAS, UTUADO, PUERTO RICO

BORING NO.: 3
Job No. 2482
Sheet 1 of 1

Spoon : 1.375"ID Hammer: 140# Drop : 30"	Driller : M. ALVAREZ Method : AUGER Drill type: CME-45	Date Started : 08/31/95 Date Completed: 08/31/95 Total Depth : 20	WATER LEVEL: Date : 09/01/94 Depth: 12'-3"	N < 100 = 18 N > 100 = 2 CORE = --				
Depth ft	Samp No.	Recov %	S.P.T. values	RQD %	Description of material	SPT-N values	Qu TSF	Moist Cont%
0	1	100	3-3-3		Clayey silt, little sand, occasional gravel size rock fragments, very dark grayish brown, sand traces	6	2.0	32
	2	100	2-2-2			4	0.7	46
5	3	100	2-2-3		Silty clay, sand traces, gray and brown	5	1.0	50
	4	100	2-3-3		Sandy-clayey silt, brown, gray mottled	6		46
10	5	100	2-3-5			8	0.8	47
	6	100	21-35-50		Decomposed rock fragments, sampled as silty medium sand, trace gravel size rock fragments, brown	85		25
15					Weathered volcanic sandstone sampled as silty coarse sand and gravel size volcanic fragments, brown	50/4"		24
20	7	56	35-50/4"-		END OF TEST HOLE - 20 FT			
</								

N values are the number of blows required to drive the sampling spoon a distance of twelve inches with a 140 lbs hammer falling 30 inches. Natural Moisture Content (2) is expressed in percentage of its dry weight. Unconfined Compressive Strength (Qu) values are expressed in tons per square foot.

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG
PROJECT: EMBARCADERO DOS BOCAS, UTUADO, PUERTO RICO

BORING NO.: 7
Job No. 2482
Sheet 1 of 1

Spoon : 1.375"ID Hammer: 140# Drop : 30"		Driller : M. ALVAREZ Method : AUGER Drill Type: CME-45		Date Started : 09/08/95 Date Completed: 09/08/95 Total Depth : 29.5		WATER LEVEL: Date : -- Depth: --		N < 100 = 29 N > 100 = 0.5 CORE = --	
Depth ft	Samp No.	Recov %	S.P.T. values	RQD %	Description of material	SPT-N values	Qu TSF	Moist Cont%	
0	1	83	1-2-3		Silty coarse sand, little gravel size rock fragments, trace clayey pockets, dark brown	5		11	
	2	100	3-1-2		Clayey silt, some sand, trace gravel size rock fragments, grayish brown	3			
5	3	89	3-3-3		Silty coarse sand, little gravel size rock fragments, trace clayey pockets, brown	6		12	
	4	72	2-2-3			5		17	
10	5	78	5-3-2		Clayey silty coarse sand, some gravel size rock fragments, dark brown	5		19	
	6	100	5-6-7		Clayey silt, some coarse sand, trace gravel size rock fragments, gray and dark brown	13			
15					Organic silt, little to some sand, trace clayey, decayed roots, very dark brownish gray	11			
20	7	100	5-5-6						
	8	100	9-11-20		Silty coarse sand, some clayey, little gravel size rock fragments, grayish brown	31		23	
25					Decomposed rock sampled as silty medium sand, little gravel size rock fragments, brown	60/4"		7	
30	9	22	60/4"----			60/4"			
					END OF TEST HOLE - 29.5 FT				
35									

N values are the number of blows required to drive the sampling spoon a distance of twelve inches with a 140 lbs hammer falling 30 inches. Natural Moisture Content (2) is expressed in percentage of its dry weight. Unconfined Compressive Strength (Qu) values are expressed in tons per square foot.

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
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PUERTO RICO

DATE REVISIONS

BORING LOGS

SS
02

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG

PROJECT: EMBARCADERO DOS Bocas, Utuado, Puerto Rico

BORING NO.: 8
Job No. 2482
Sheet 1 of 1

Spoon: 1.375" ID Hammer: 140# Drop: 30"		Driller: M. ALVAREZ Method: AUGER Drill Type: CME-45		Date Started: 08/29/95 Date Completed: 08/29/95 Total Depth: 6.5		WATER LEVEL: Date: 08/29/95 Depth: NOT OBSERVED		N < 100 = -- N > 100 = 60.5 CORE = --	
Depth ft	Samp No.	Recov %	S.P.T. values	R.D. %	Description of material	SPT-N values	Qu TSF	Moist Cont%	
0		39	15-60/3"		Silty-gravelly sand, brown	19		9	
2	17		60/3"		Decomposed rock sampled as silty coarse sand and gravel size rock fragments, brown	60/3"			
5	11		50/2"		Weathered volcanic sandstone, sampled as silty medium sand and gravel size volcanic fragments, brown	50/2"			
END OF TEST HOLE - 6.5 FT									
10									
15									
20									
25									
30									
35									

N values are the number of blows required to drive the sampling spoon a distance of twelve inches with a 140 lb hammer falling 30 inches. Natural Moisture Content (2) is expressed in percentage of its dry weight. Unconfined Compressive Strength (Qu) values are expressed in tons per square foot.

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG

PROJECT: EMBARCADERO DOS Bocas, Utuado, Puerto Rico

BORING NO.: 11
Job No. 2482
Sheet 1 of 1

Spoon: 1.375" ID Hammer: 140# Drop: 30"		Driller: M. ALVAREZ Method: AUGER Drill Type: CME-45		Date Started: 08/30/95 Date Completed: 08/30/95 Total Depth: 20		WATER LEVEL: Date: 08/31/95 Depth: NOT OBSERVED		N < 100 = 19.5 N > 100 = 0.5 CORE = --	
Depth ft	Samp No.	Recov %	S.P.T. values	R.D. %	Description of material	SPT-N values	Qu TSF	Moist Cont%	
0	1	89	16-7-4		Asphalt/sandy gravel size rock fragments, some silty trace clayey, trace(-) concrete fragments, dark grayish brown	11		16	
2	100		2-2-1		Clayey silt, little sand, few pebbles, dark brown	3		43	
5									
3	100		2-1-2		Sandy-clayey silt, trace(-) gravel size rock fragment, dark brown	3		31	
4	100		2-2-2		Clayey silt, little sand, occasional gravel size rock fragments, dark brown, black mottled	4	0.7	41	
5	100		4-5-8		Sandy-clayey silt, occasional gravel size rock fragments, dark brown	13		39	
15	6	100	5-8-12		Coarse sandy silt, some clayey, trace gravel size rock fragments, dark brown	20		34	
20	7	39	25-60/3"		Decomposed rock sampled as silty coarse sand and gravel size rock fragments, dark brown	60/3"		15	
END OF TEST HOLE - 20 FT									
25									
30									
35									

N values are the number of blows required to drive the sampling spoon a distance of twelve inches with a 140 lb hammer falling 30 inches. Natural Moisture Content (2) is expressed in percentage of its dry weight. Unconfined Compressive Strength (Qu) values are expressed in tons per square foot.

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG

PROJECT: EMBARCADERO DOS Bocas, Utuado, Puerto Rico

BORING NO.: 9
Job No. 2482
Sheet 1 of 1

Spoon: 1.375" ID Hammer: 140# Drop: 30"		Driller: M. ALVAREZ Method: AUGER Drill Type: CME-45		Date Started: 08/29/95 Date Completed: 08/29/95 Total Depth: 20.5		WATER LEVEL: Date: 08/30/95 Depth: 10'-2"		N < 100 = 10 N > 100 = 10.5 CORE = --	
Depth ft	Samp No.	Recov %	S.P.T. values	R.D. %	Description of material	SPT-N values	Qu TSF	Moist Cont%	
0	1	100	22-10-9		Asphalt/silty-coarse sand and gravel, some clayey brown and dark grayish brown	19		9	
2	89		6-6-10		Clayey silt, some medium sand, trace gravel size rock fragments, pale yellow and reddish brown	16		25	
5									
3	100		3-3-5		Sandy-clayey silt, grayish brown, occasional pebbles	8		39	
4	100		4-5-4			9		32	
5	78		8-28-50/3"			30/3"		10	
15	6	44	26-50/2"		Decomposed rock sampled as silty coarse sand, olive brown, little clayey, little gravel size rock fragments, brown, some gravel size weathered sandstone	50/2"		42	
20	7	22	50/4"			50/4"		17	
END OF TEST HOLE - 20.5 FT									
25									
30									
35									

N values are the number of blows required to drive the sampling spoon a distance of twelve inches with a 140 lb hammer falling 30 inches. Natural Moisture Content (2) is expressed in percentage of its dry weight. Unconfined Compressive Strength (Qu) values are expressed in tons per square foot.

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG

PROJECT: EMBARCADERO DOS Bocas, Utuado, Puerto Rico

BORING NO.: 12
Job No. 2482
Sheet 1 of 1

Spoon: 1.375" ID Hammer: 140# Drop: 30"		Driller: M. ALVAREZ Method: AUGER Drill Type: CME-45		Date Started: 08/31/95 Date Completed: 08/31/95 Total Depth: 19.5		WATER LEVEL: Date: 08/31/95 Depth: 15'-4"		N < 100 = 17 N > 100 = 1.5 CORE = --	
Depth ft	Samp No.	Recov %	S.P.T. values	R.D. %	Description of material	SPT-N values	Qu TSF	Moist Cont%	
0	1	89	24-7-10		Asphalt/silty medium to coarse sand, trace gravel size rock fragments, olive brown	17		8	
2	100		10-14-20			34		16	
5									
3	100		10-13-20			33		20	
4	100		14-19-22		Silty coarse sand, brown (saprolite), occasional gravel, trace gravel	41		19	
5	100		17-22-27			49		25	
15	6	100	9-9-10			19		24	
20	7	17	70/4"		Decomposed rock sampled as silty coarse sand, little gravel size rock fragments, brown	70/4"		20	
END OF TEST HOLE - 19.5 FT									
25									
30									
35									

N values are the number of blows required to drive the sampling spoon a distance of twelve inches with a 140 lb hammer falling 30 inches. Natural Moisture Content (2) is expressed in percentage of its dry weight. Unconfined Compressive Strength (Qu) values are expressed in tons per square foot.

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG

PROJECT: EMBARCADERO DOS Bocas, Utuado, Puerto Rico

BORING NO.: 10
Job No. 2482
Sheet 1 of 1

Spoon: 1.375" ID Hammer: 140# Drop: 30"		Driller: M. ALVAREZ Method: AUGER Drill Type: CME-45		Date Started: 09/12/95 Date Completed: 09/12/95 Total Depth: 10.5		WATER LEVEL: Date: -- Depth: --		N < 100 = 10 N > 100 = 0.5 CORE = --	
Depth ft	Samp No.	Recov %	S.P.T. values	R.D. %	Description of material	SPT-N values	Qu TSF	Moist Cont%	
0	1	100	4-4-3		Clayey silt, some medium sand, few pebbles, occasional roots, pieces of wood, very dark grayish brown	7		40	
2	100		4-3-4		Sandy-clayey silt, grayish brown	7		47	
5									
3	100		4-5-6		Medium sandy silt, brown	11		57	
4	100		9-16-13		Silty coarse sand, some clayey, trace gravel size rock fragments, dark brown	29		39	
10	5	33	70/6"		Decomposed rock fragments, sampled as silty coarse sand, little gravel size rock fragments, trace clayey pockets, dark brown	70/6"		31	
END OF TEST HOLE - 10.5 FT									
15									
20									
25									
30									
35									

N values are the number of blows required to drive the sampling spoon a distance of twelve inches with a 140 lb hammer falling 30 inches. Natural Moisture Content (2) is expressed in percentage of its dry weight. Unconfined Compressive Strength (Qu) values are expressed in tons per square foot.

SUELOS, INC.
Soil and Construction Materials Laboratory
SUBSURFACE EXPLORATION LOG

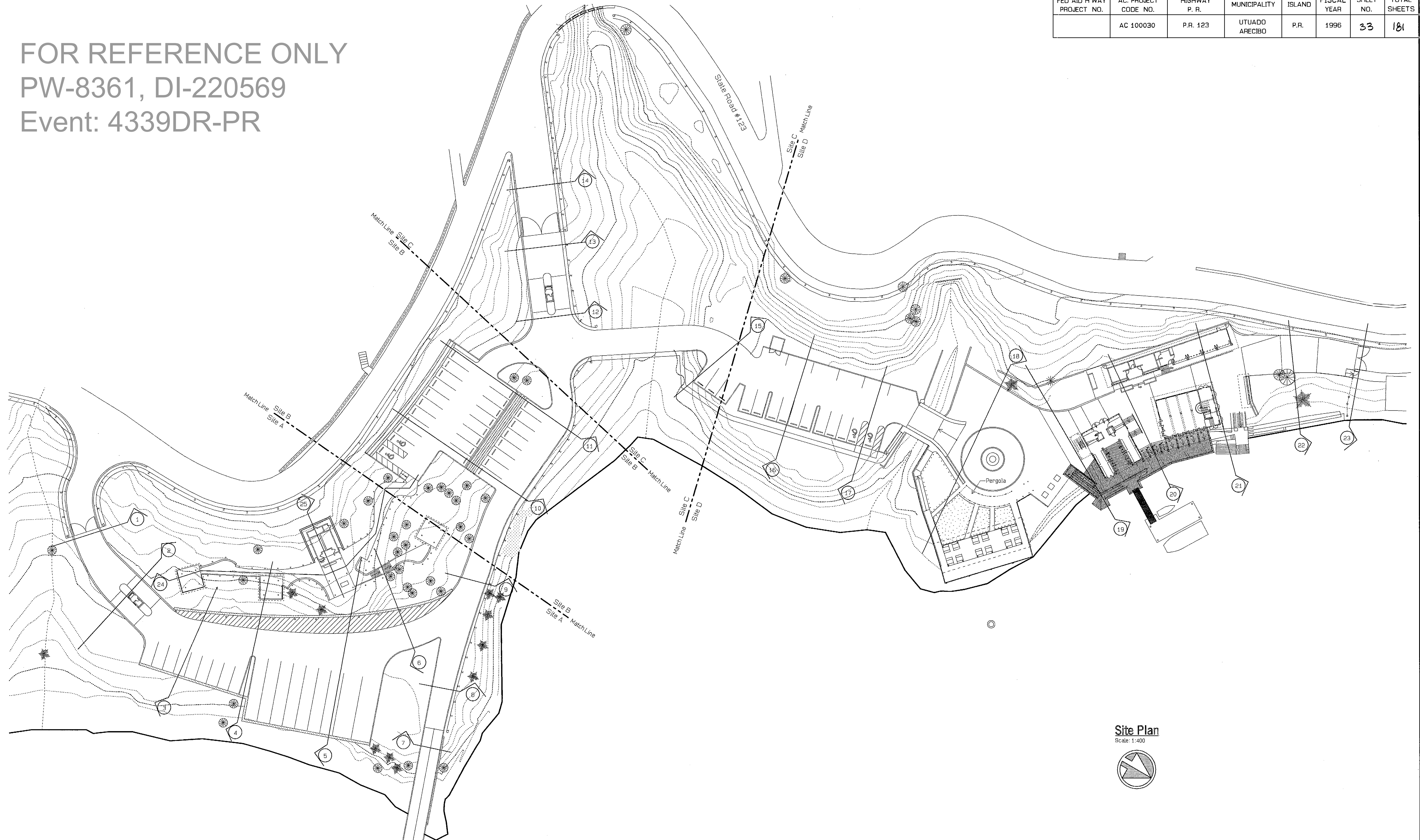
PROJECT: EMBARCADERO DOS Bocas, Utuado, Puerto Rico

BORING NO.: 13
Job No. 2482
Sheet 1 of 2

Spoon : 1.375" ID Hammer: 140# Drop : 30"		Driller : M. ALVAREZ Method : AUGER Drill Type: CME-45		Date Started : 09/14/95 Date Completed: 09/14/95 Total Depth : 41.5		WATER LEVEL: Date : 09/14/95 Depth: FULL		W < 100 = 39.5 W > 100 = 0.75 CORE = 1.25	
Depth ft	Samp No.	Recov %	S.P.T. values	RDD %	Description of material	SPT-N values	Qu TSF	Moist Cont%	
0									
5									
10									
15									
20									
25									
30	1	56	WH-WH-WH		Organic silt, little sand, roots, pieces of wood, gray, peat inclusion, trace(-) gravel, very dark gray	WH		191	
	2	100	WH-WH-WH			WH		223	
35	3	100	WH-WH-WH		Clayey silt, some medium sand, dark olive gray	WH		46	
	4	100	4-5-6		Coarse sandy-clayey silt, few cemented, brown	11		39	

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	33	181



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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PUERTO RICO

DATE	REVISIONS

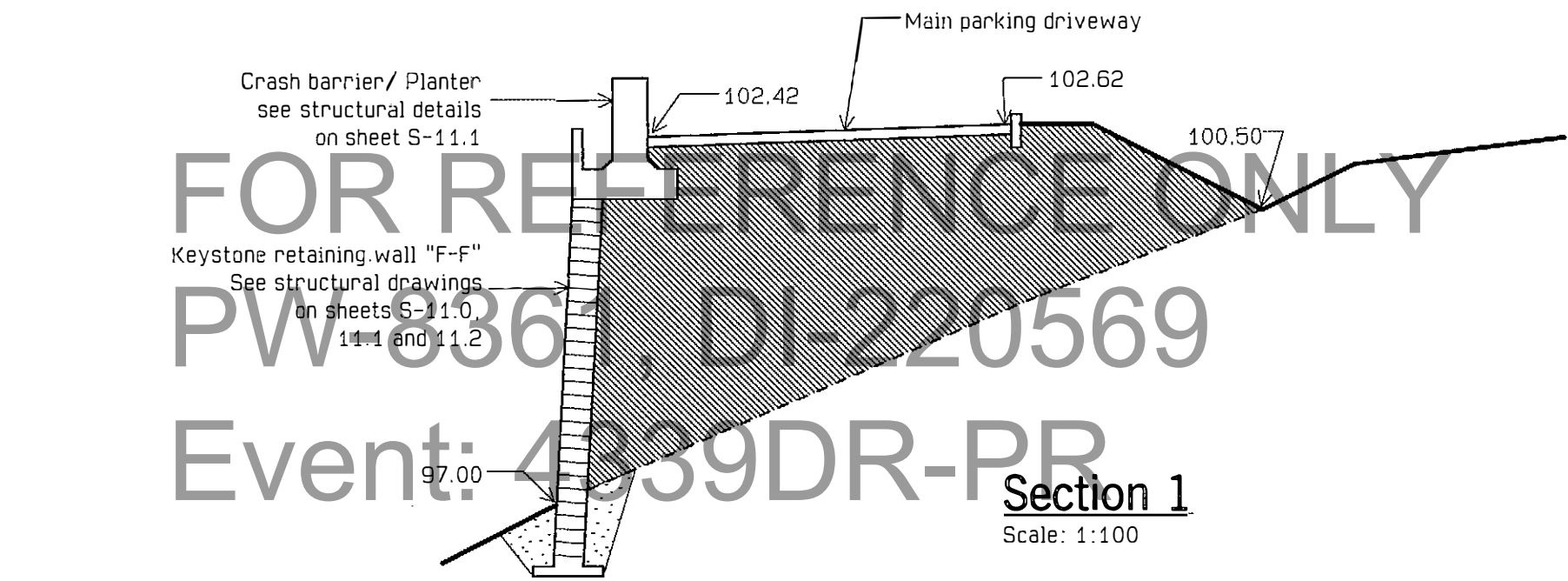
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Site Work Plan

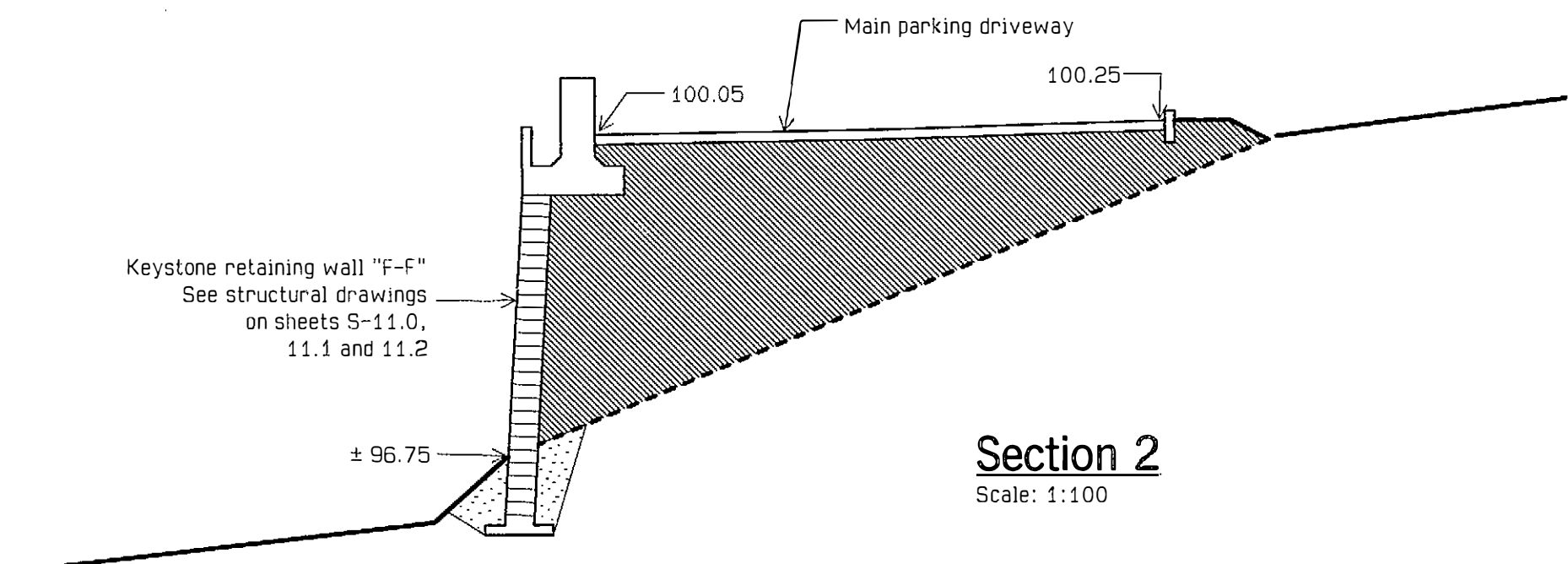
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FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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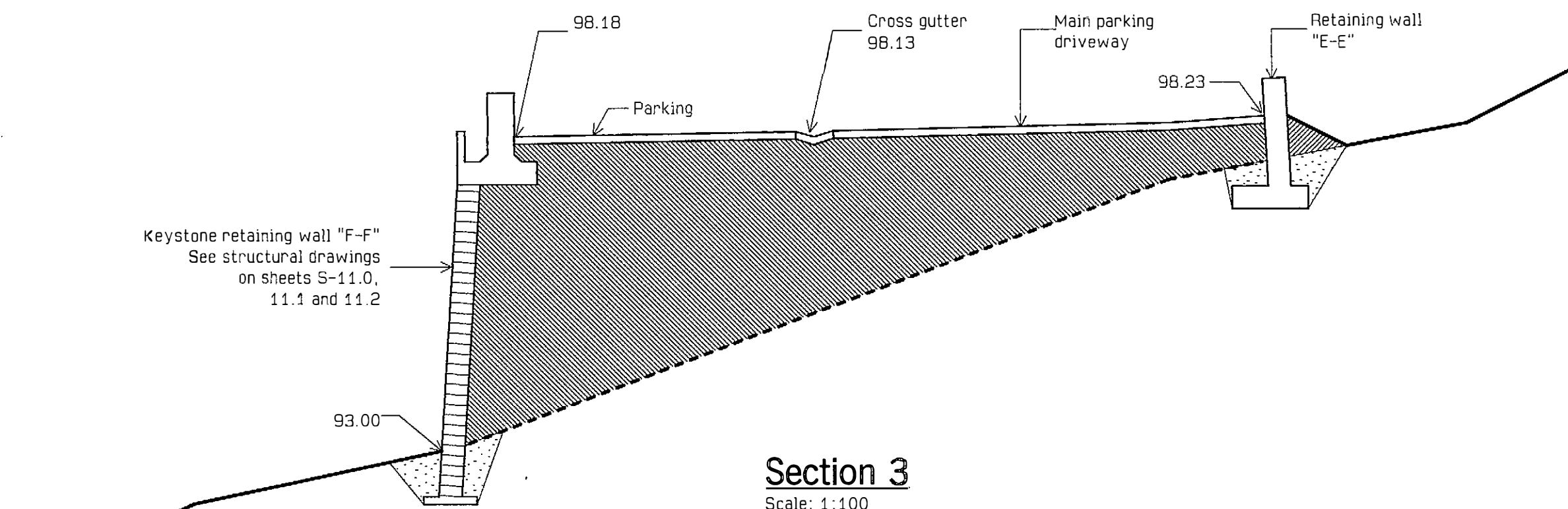
FOR REFERENCE ONLY
PW 6361, DI-220569
Event: 4339DR-PR



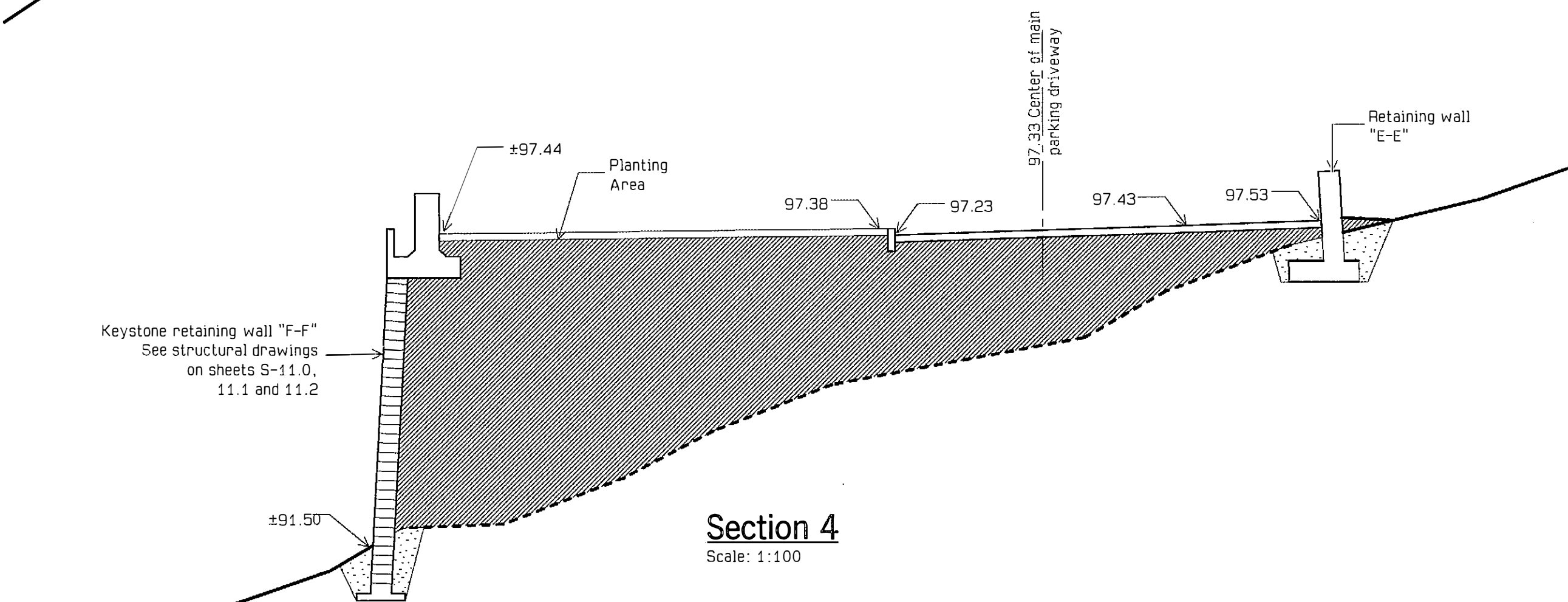
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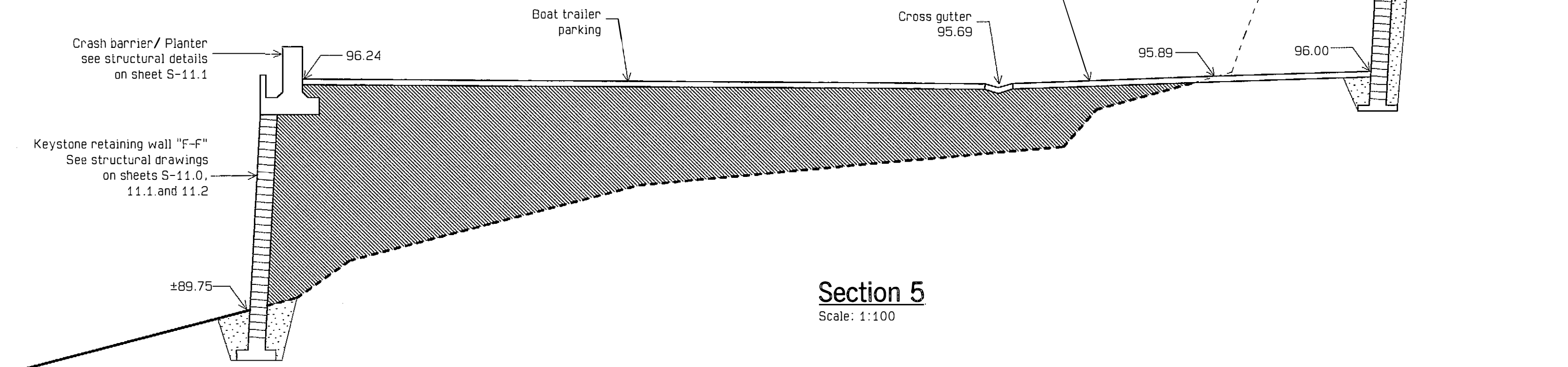
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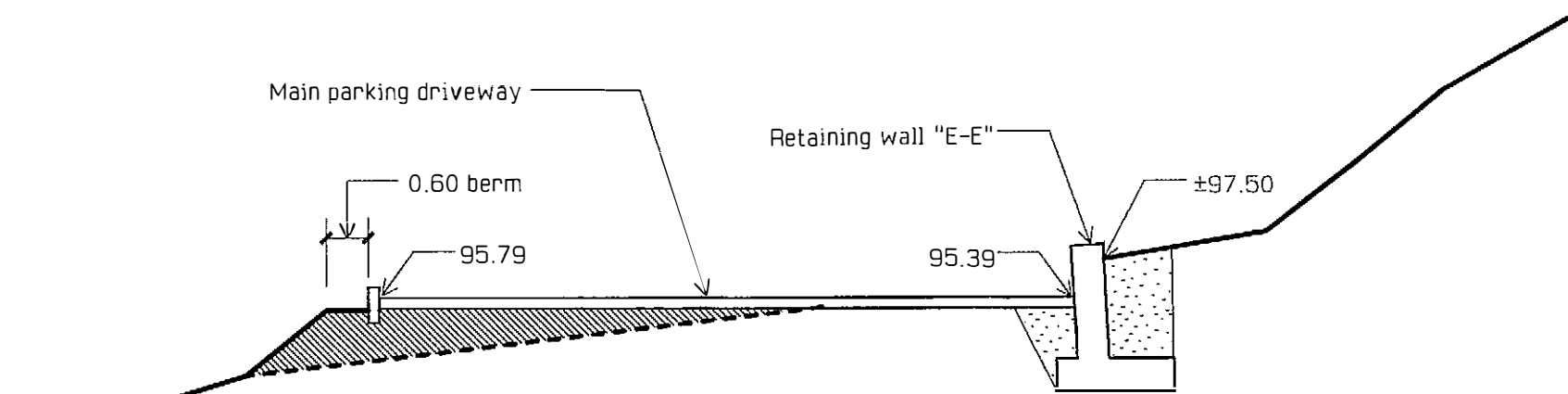
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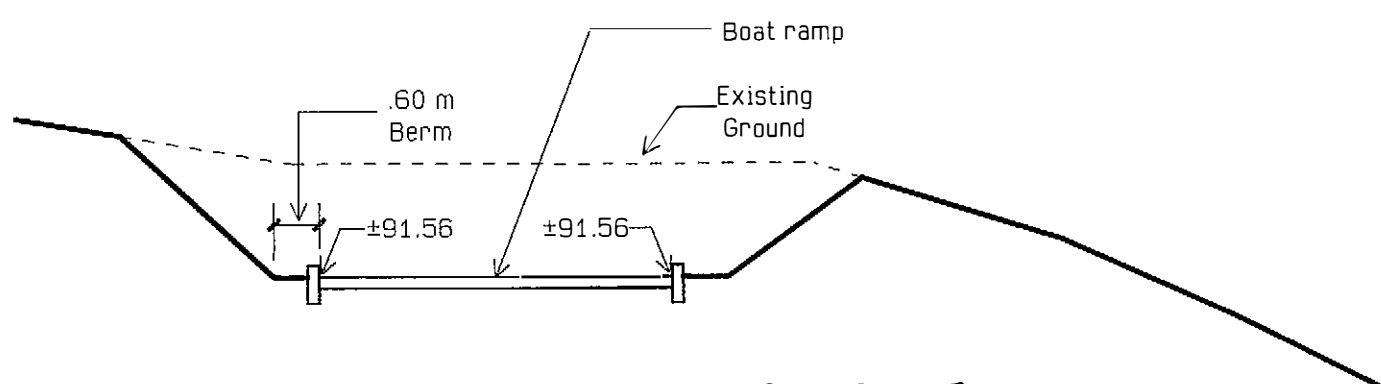
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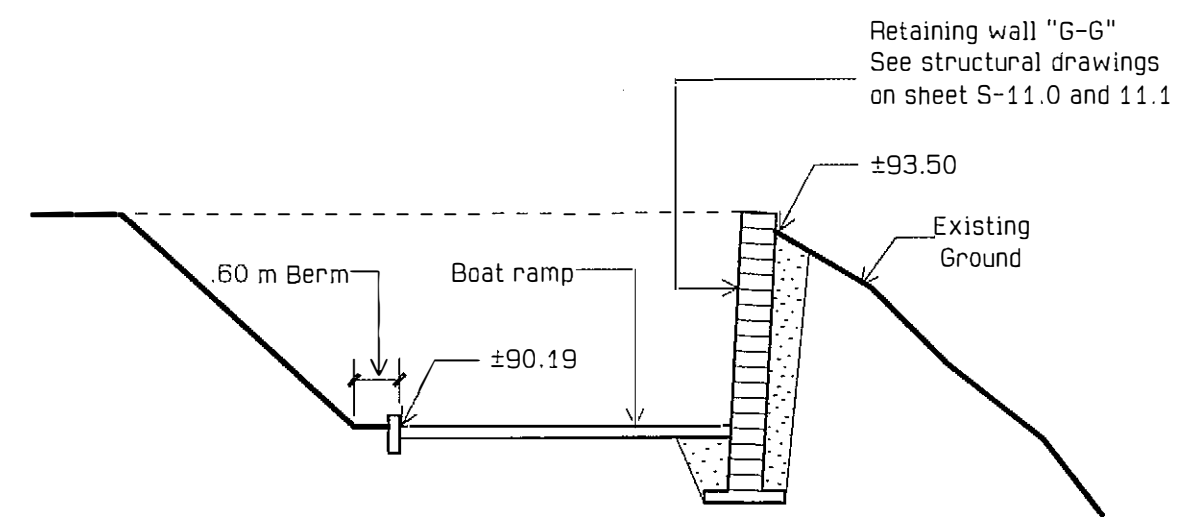
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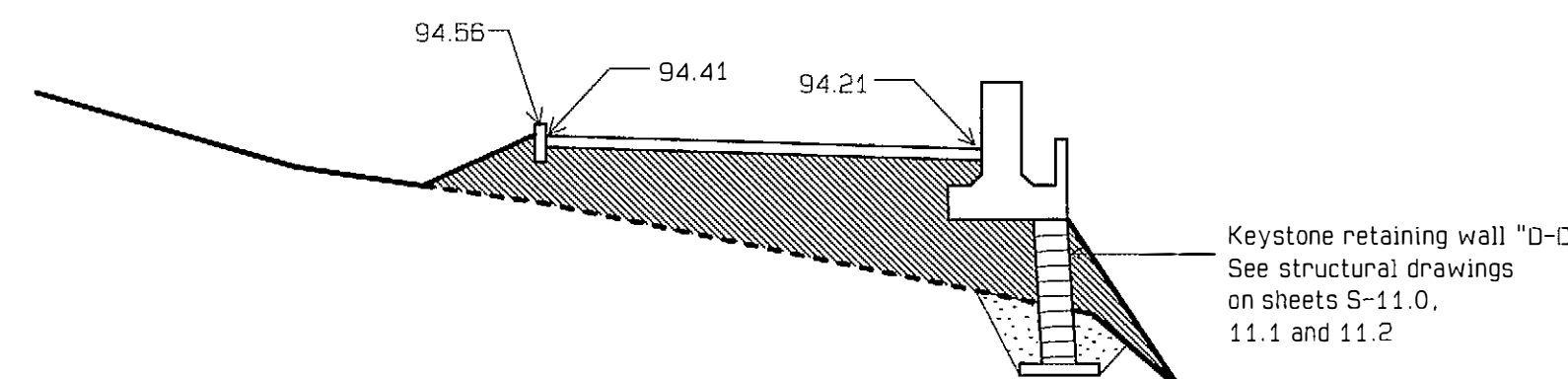
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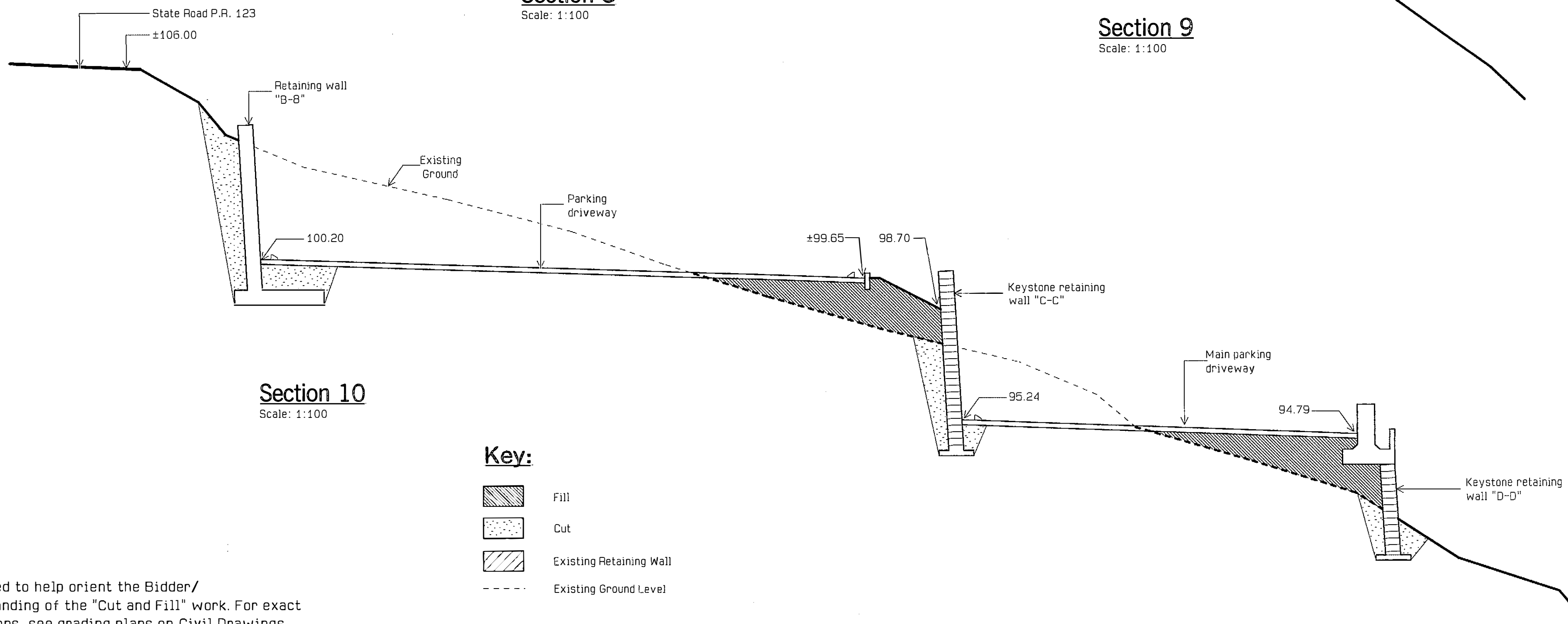
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Section 7
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Section 9
Scale: 1:100



Section 10
Scale: 1:100

- Key:
- Fill
 - Cut
 - Existing Retaining Wall
 - Existing Ground Level

Note: These site sections are only intended to help orient the Bidder/ Contractor in the comprehensive understanding of the "Cut and Fill" work. For exact existing and proposed topography elevations, see grading plans on Civil Drawings.

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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EMBARCADERO LAGO DOS BOCAS
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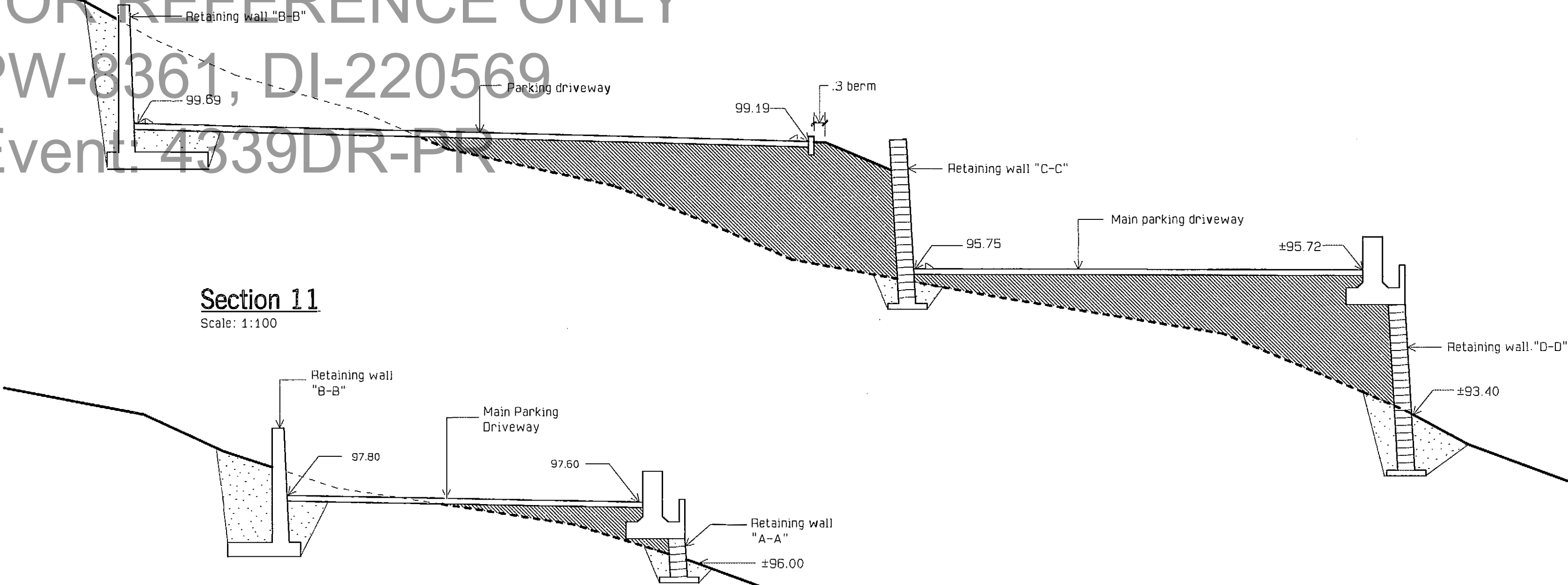
Site Work Sections

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02

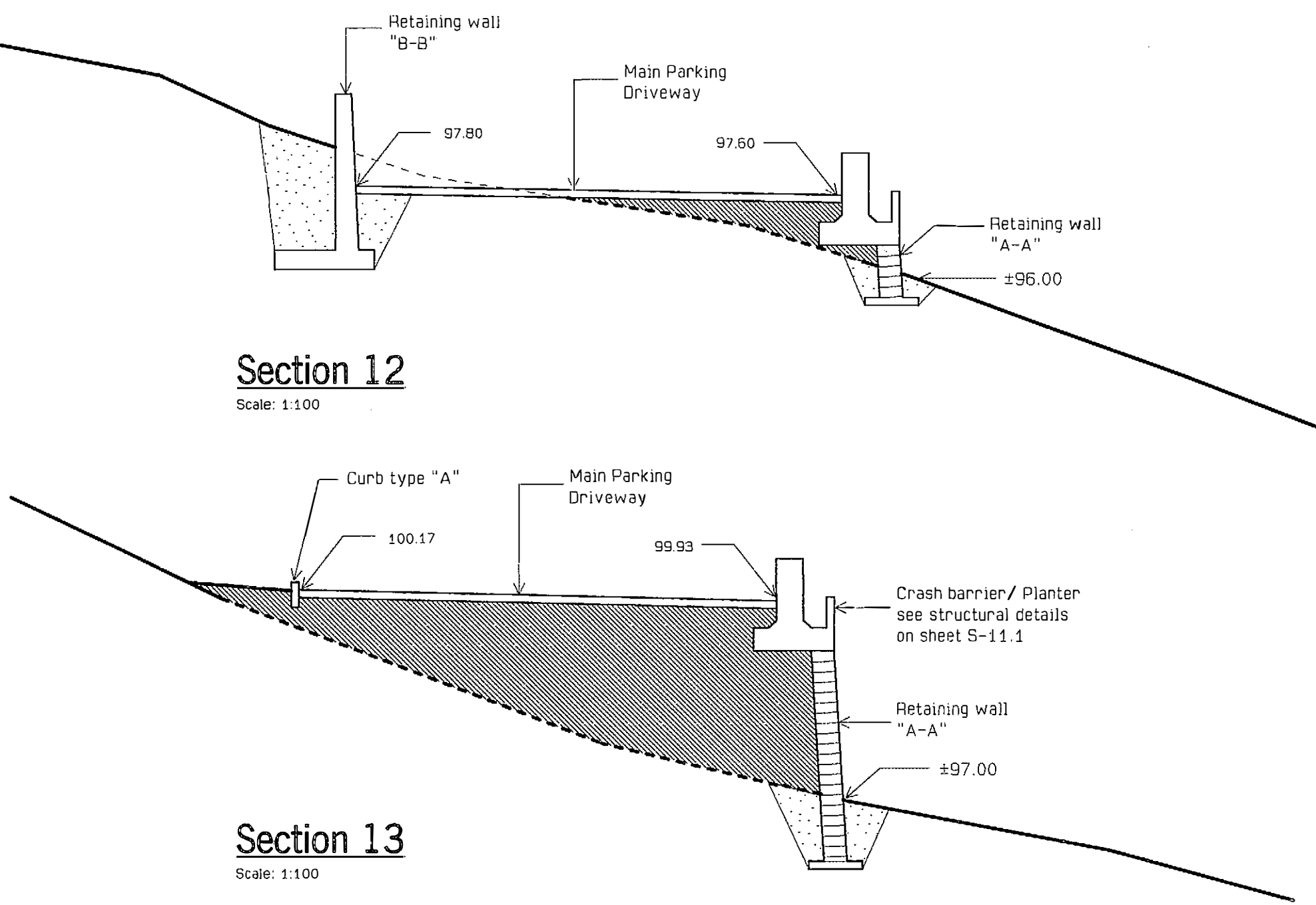
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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	35	181

FOR REFERENCE ONLY
PW-8361, DI-220569
Event 4339DR-PR

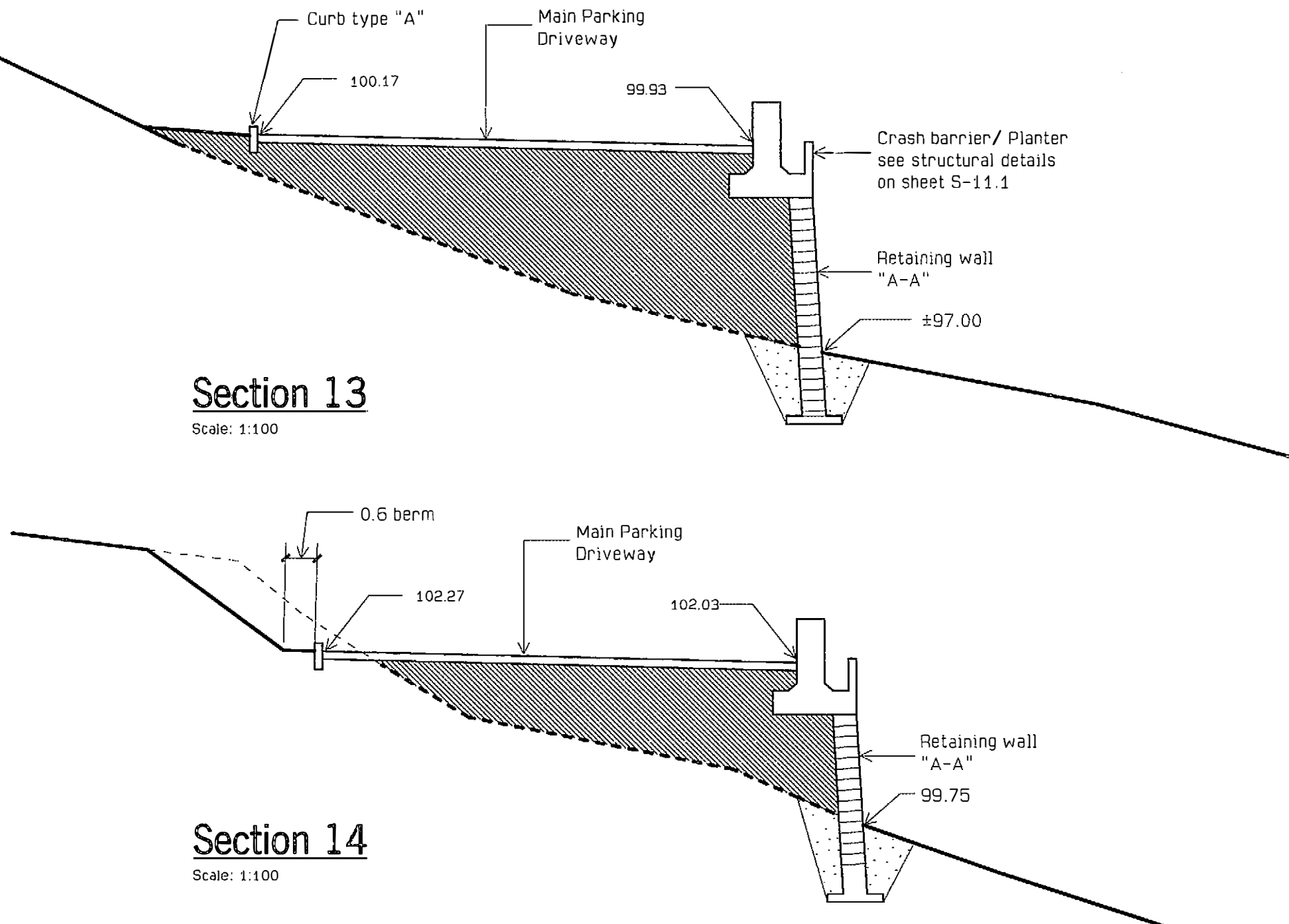
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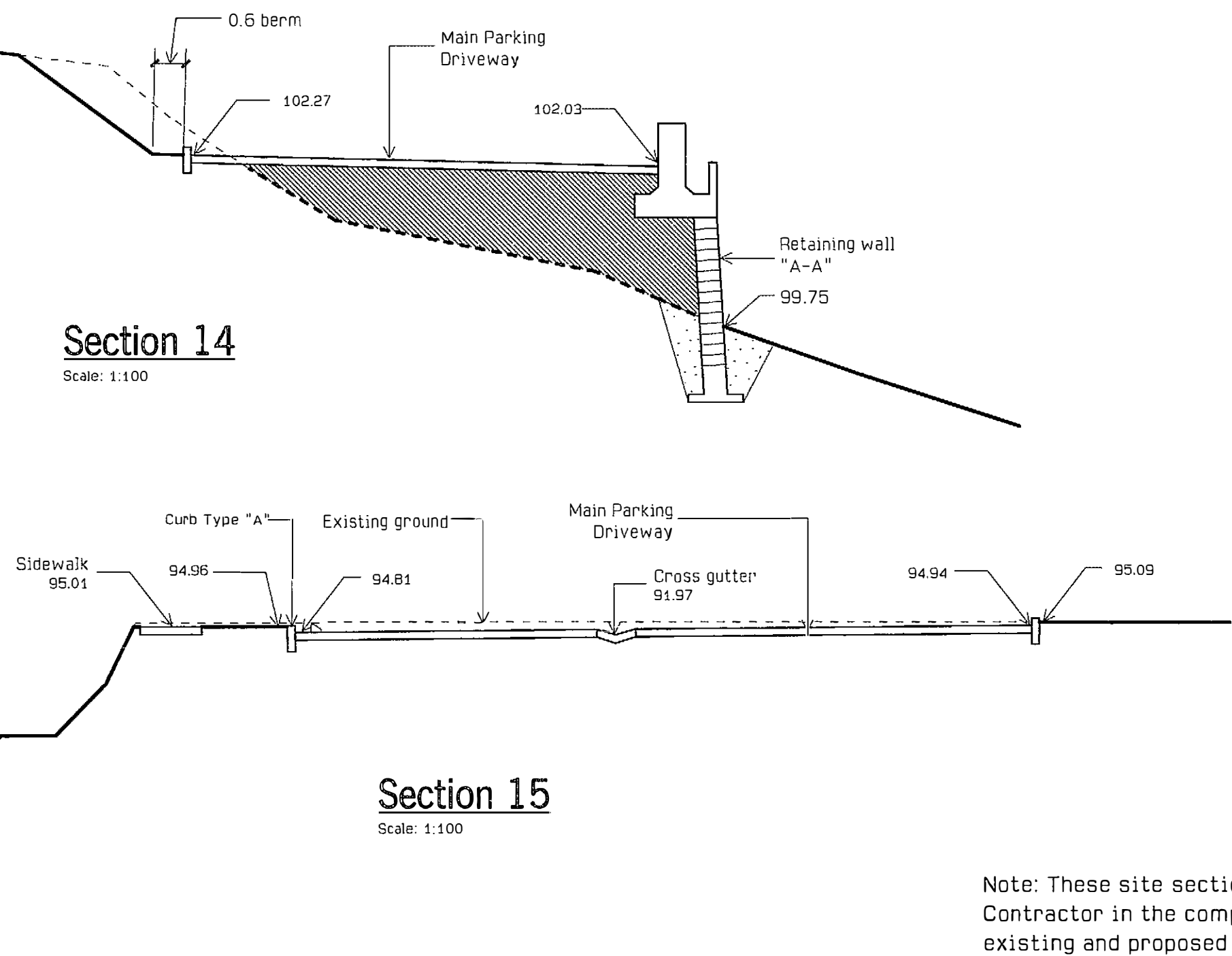
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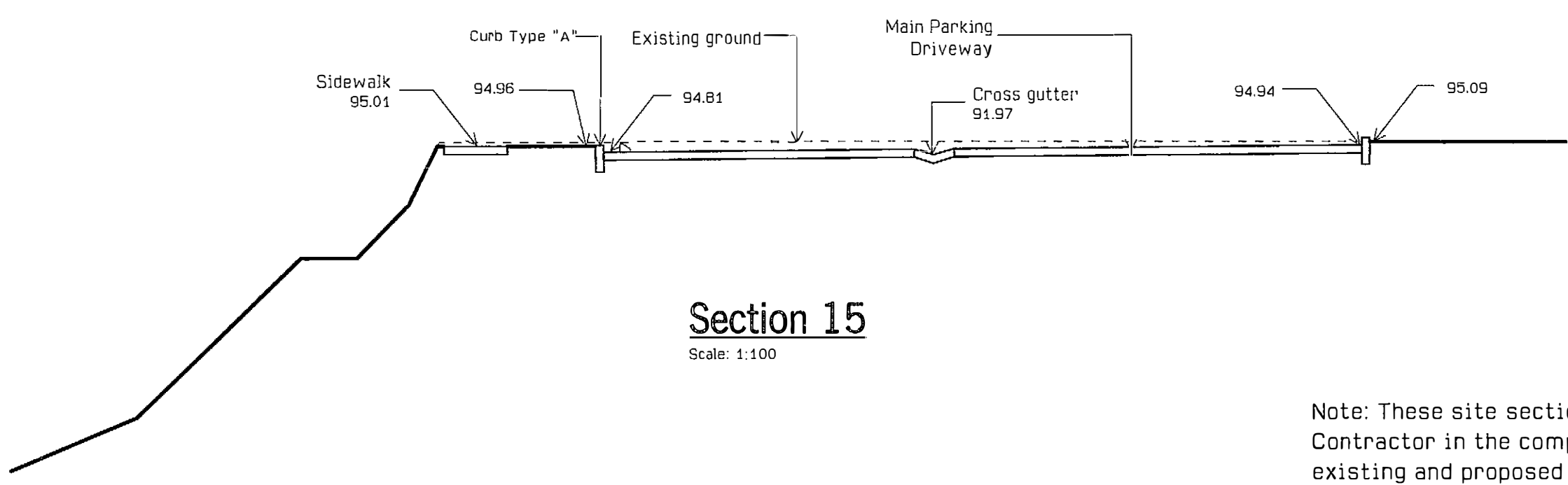
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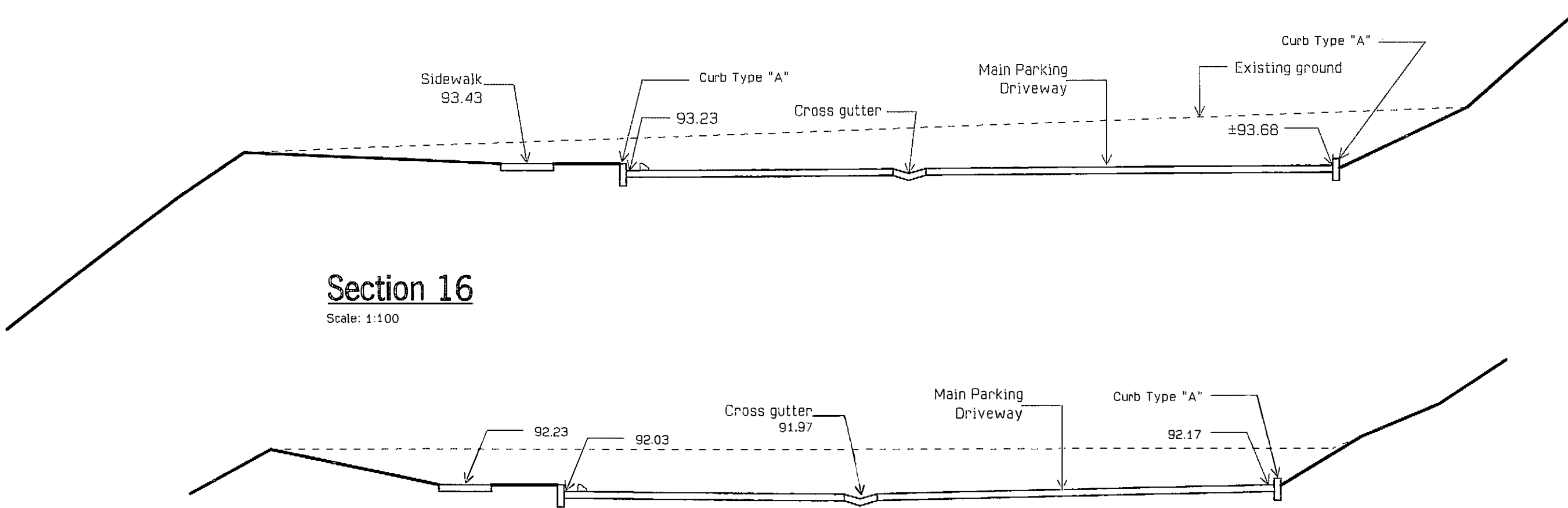
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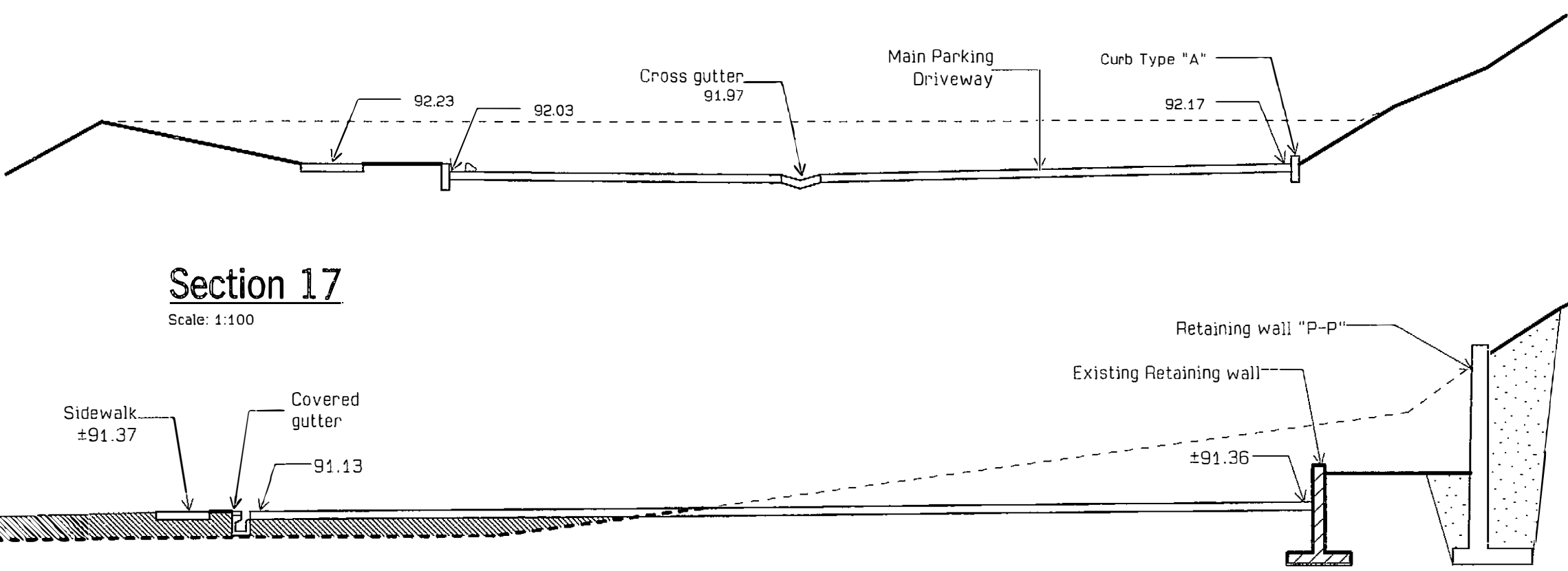
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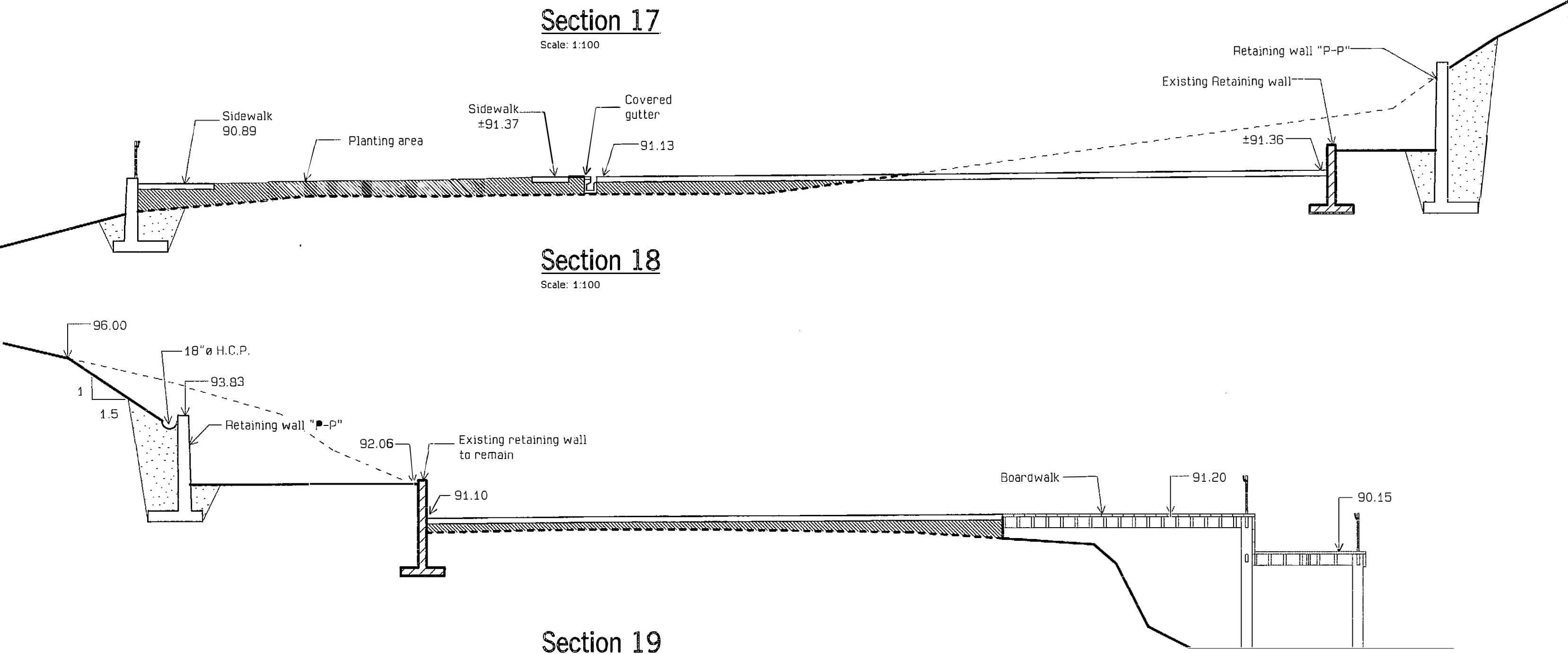
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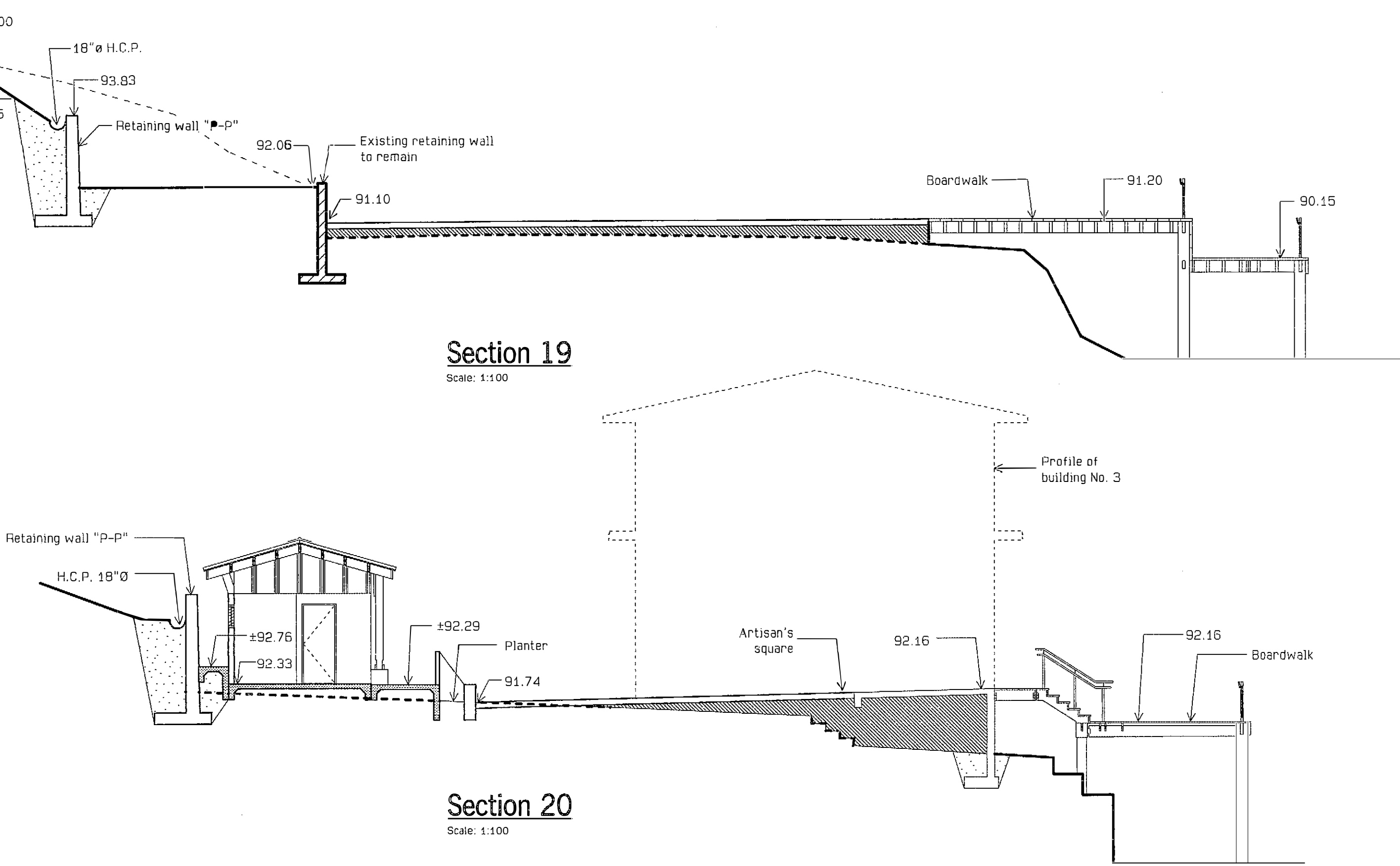
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Section 18
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Section 19
Scale: 1:100



Section 20
Scale: 1:100

Note: These site sections are only intended to help orient the Bidder/ Contractor in the comprehensive understanding of the "Cut and Fill" work. For exact existing and proposed topography elevations, see grading plans on Civil Drawings.

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

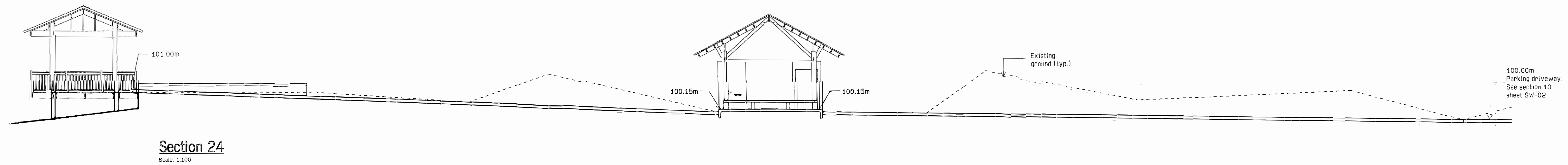
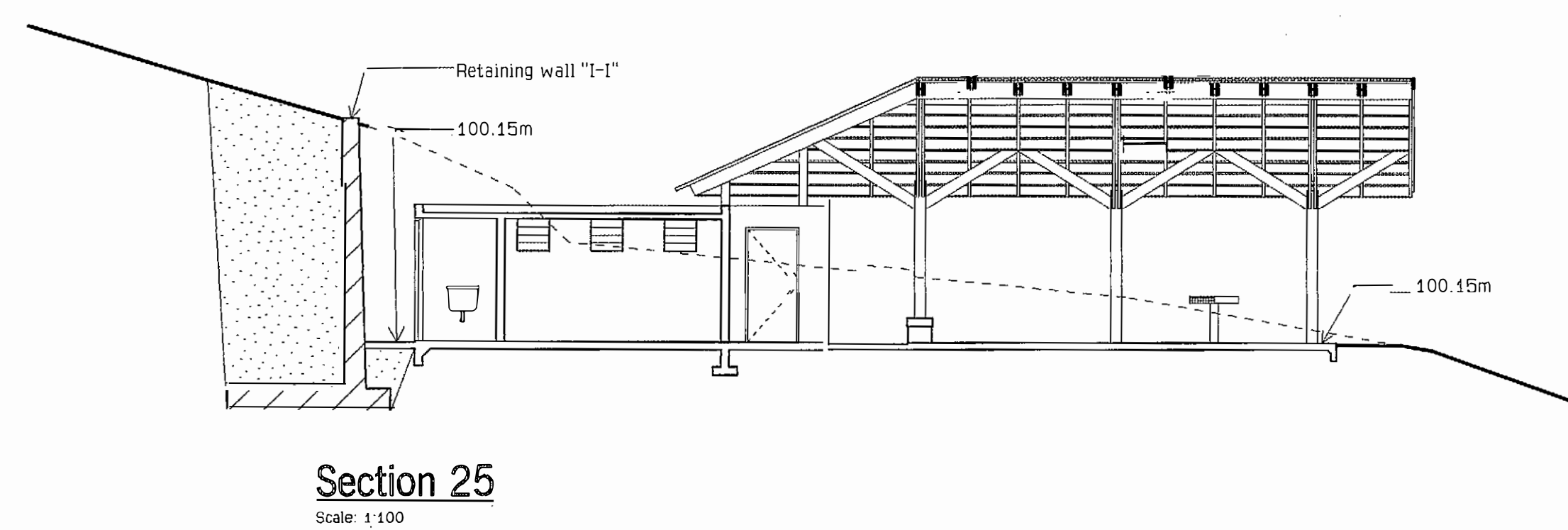
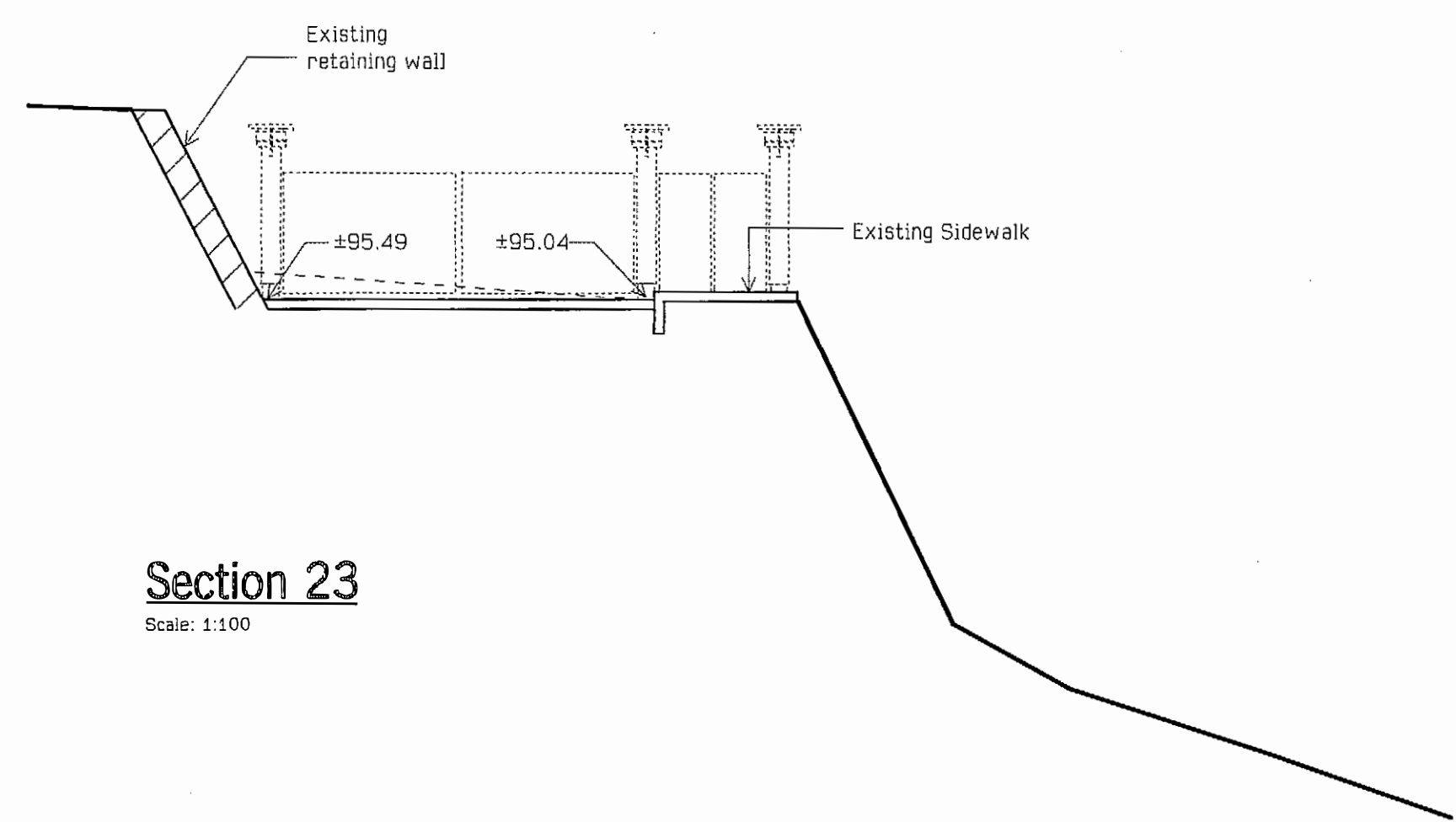
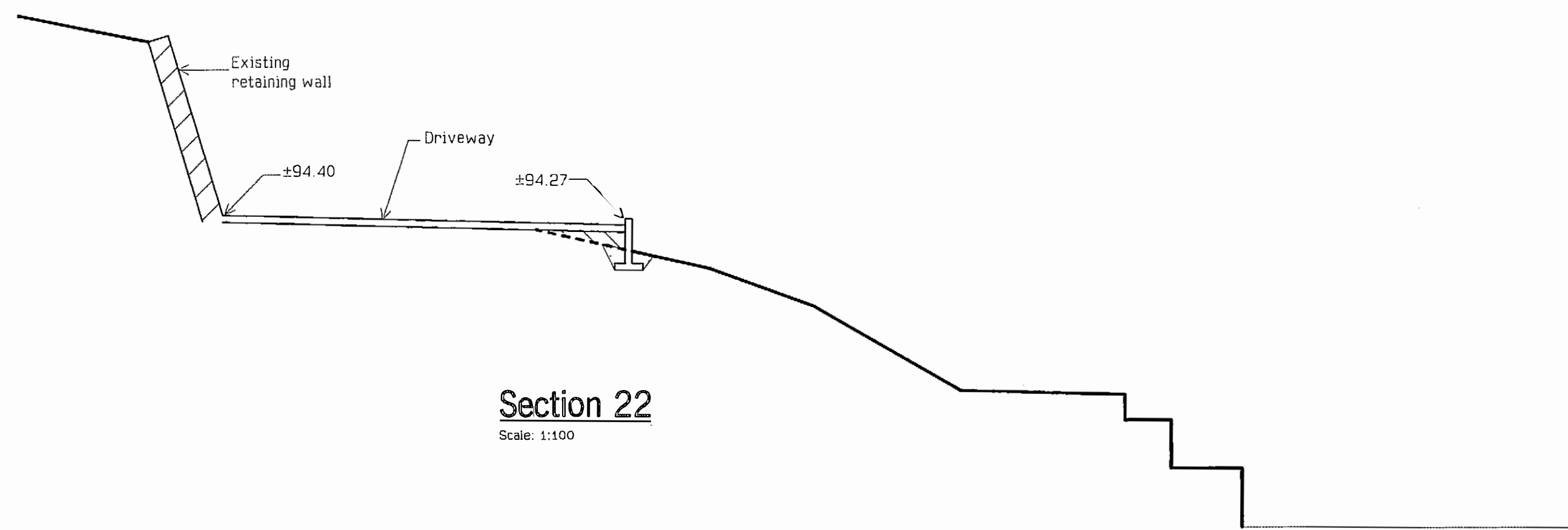
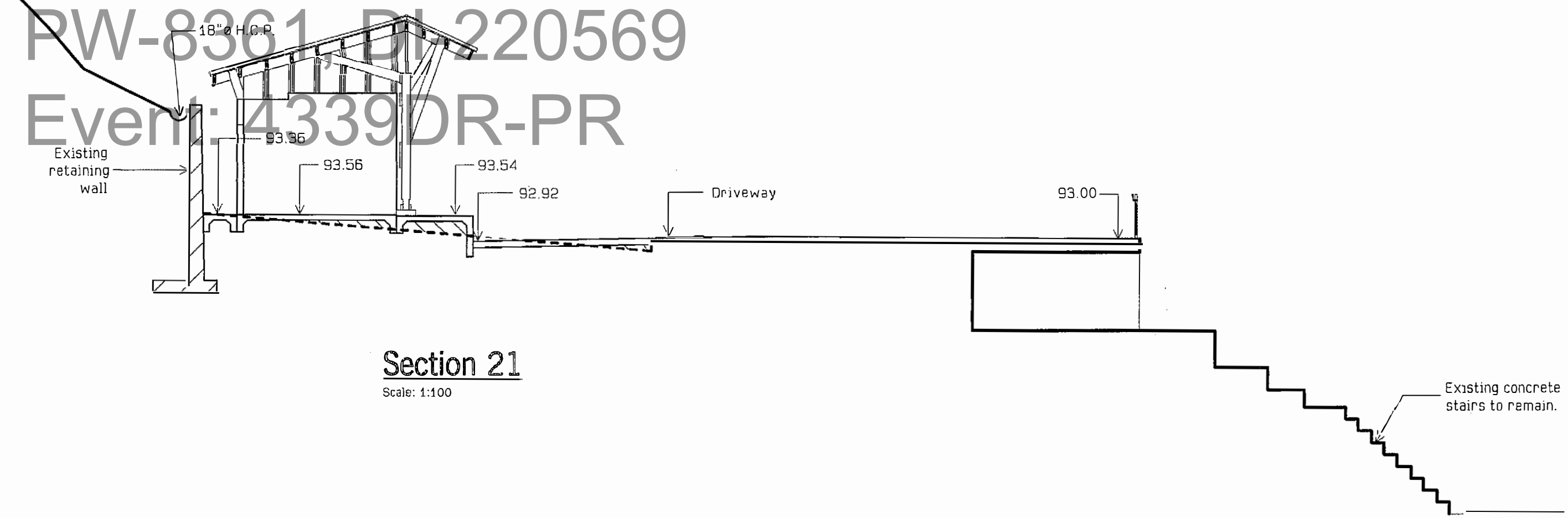
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Site Work Sections

SW
03

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	26	181

FOR REFERENCE ONLY
PW-8361-DL-220569
Event: 4339DR-PR

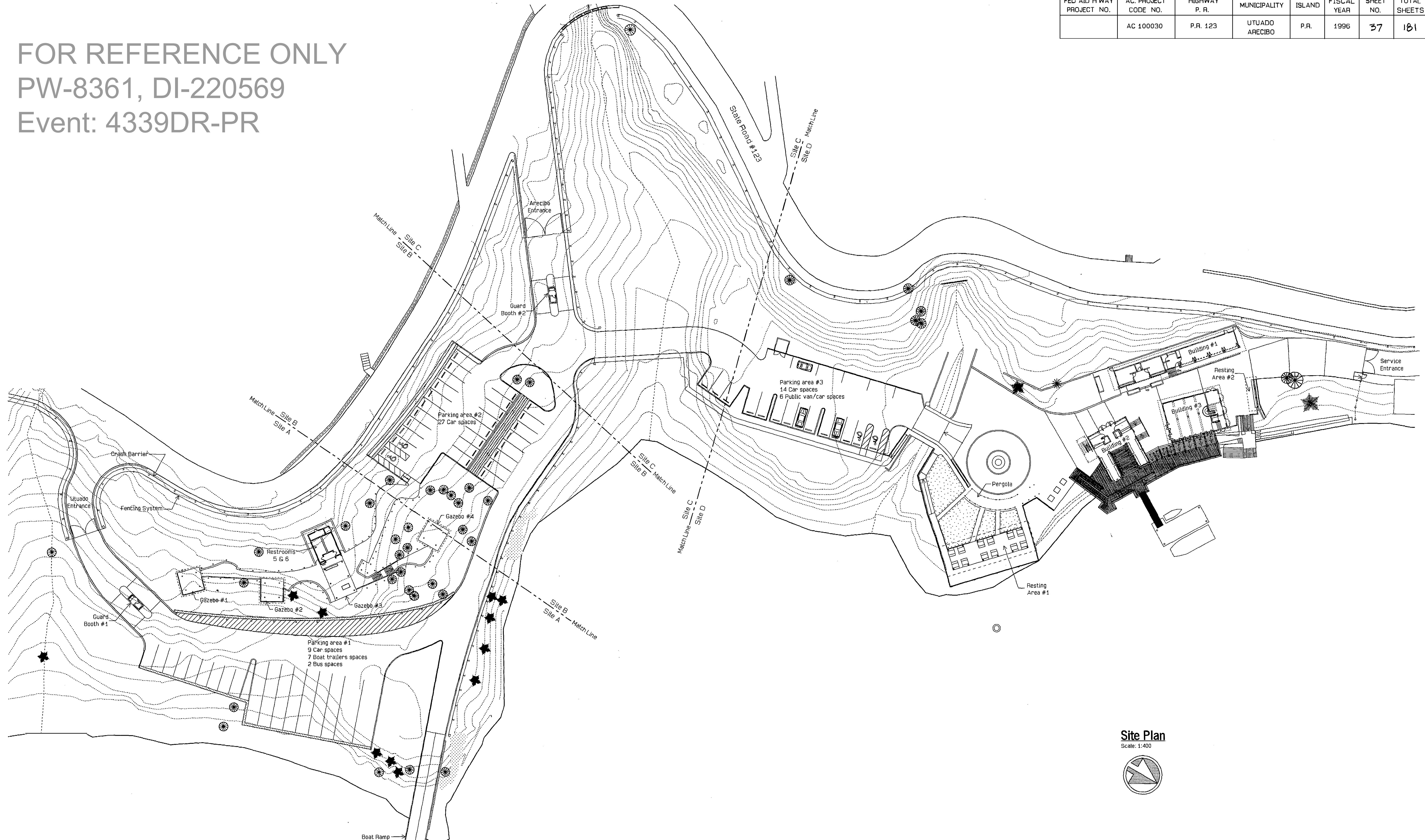


Note: These site sections are only intended to help orient the Bidder/ Contractor in the comprehensive understanding of the "Cut and Fill" work. For exact existing and proposed topography elevations, see grading plans on Civil Drawings

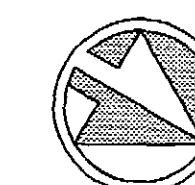
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY JRC DAVIS PAGAN CONSULTING ARCHITECT / SAN JUAN PUERTO RICO	EMBARCADERO LAGO DOS BOCAS UTUADO / ARECIBO PUERTO RICO	DATE	REVISIONS	SCALE: 1:100	Site Work Sections	SW 04

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	37	181



Site Plan
Scale: 1:400



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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE: 1:400

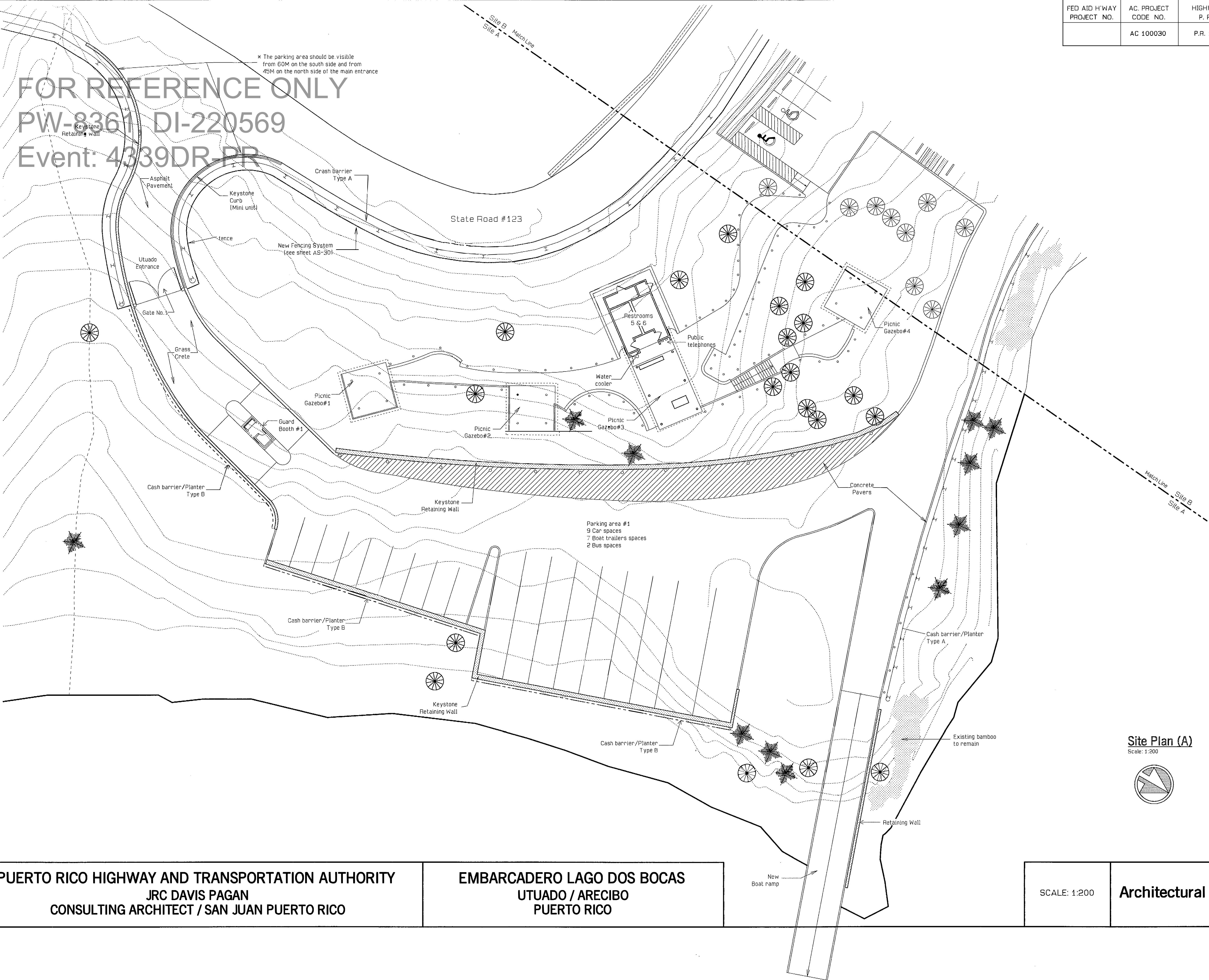
MASTER PLAN

AS
01

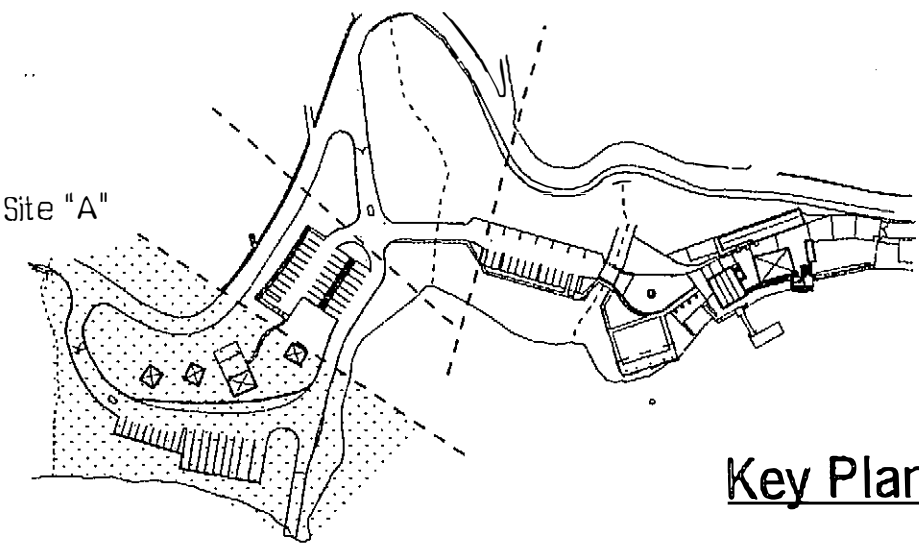
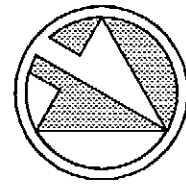
FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	38	181

FOR REFERENCE ONLY
PW-8361 DI-220569
Event: 4339DR-PR

* The parking area should be visible
from 60M on the south side and from
45M on the north side of the main entrance



Site Plan (A)
Scale: 1:200



Key Plan

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CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

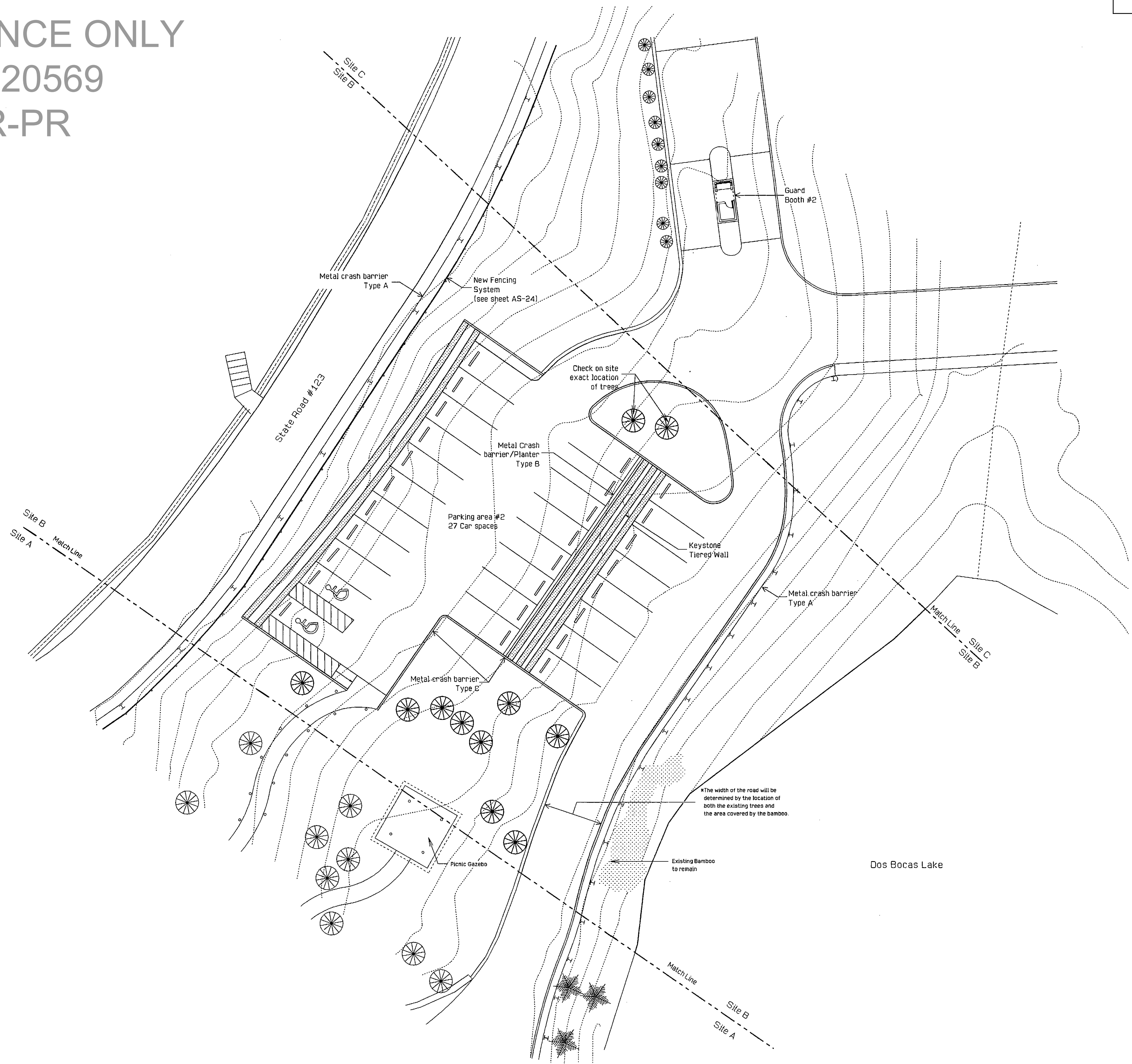
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Architectural Site Improvement (A)

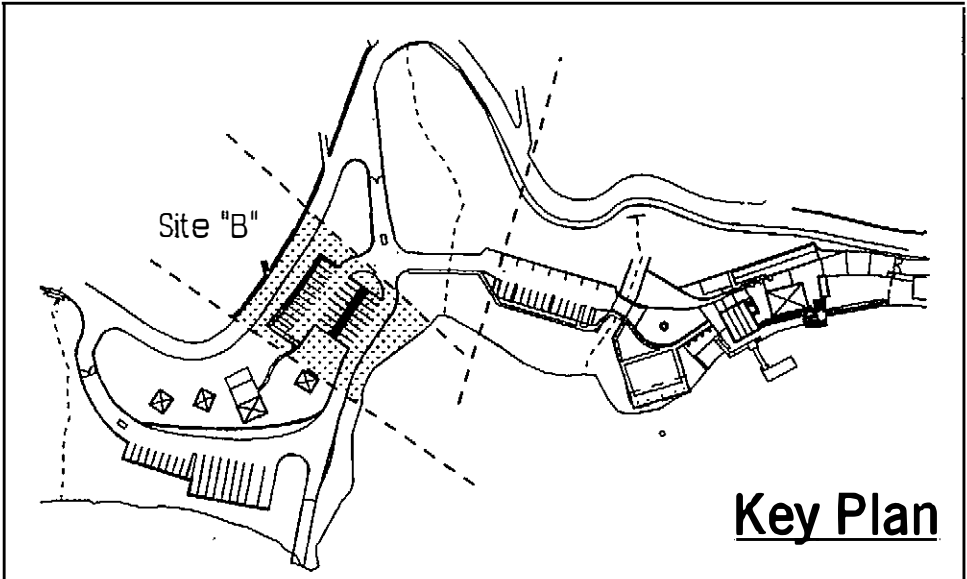
AS
02

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	39	181



Site Plan (B)
Scale: 1:200



Key Plan

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

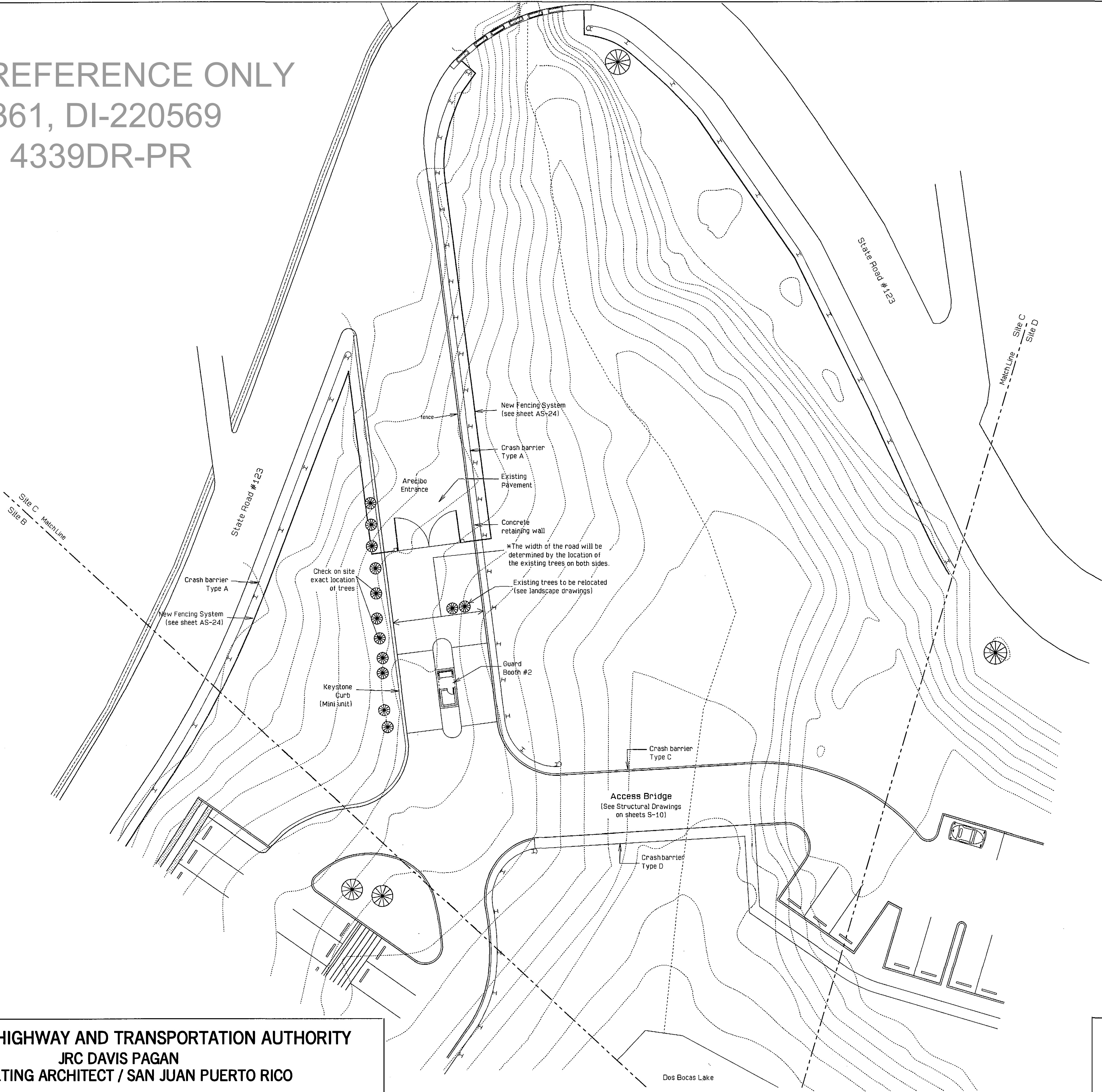
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Architectural Site Improvement (B)

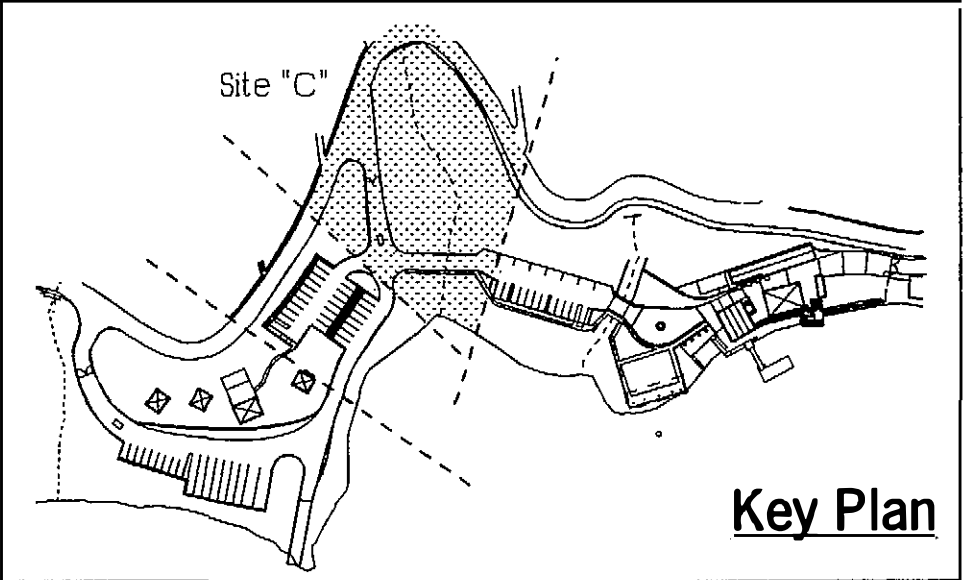
AS
03

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED. AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	40	181



Site Plan (C)
Scale: 1:200



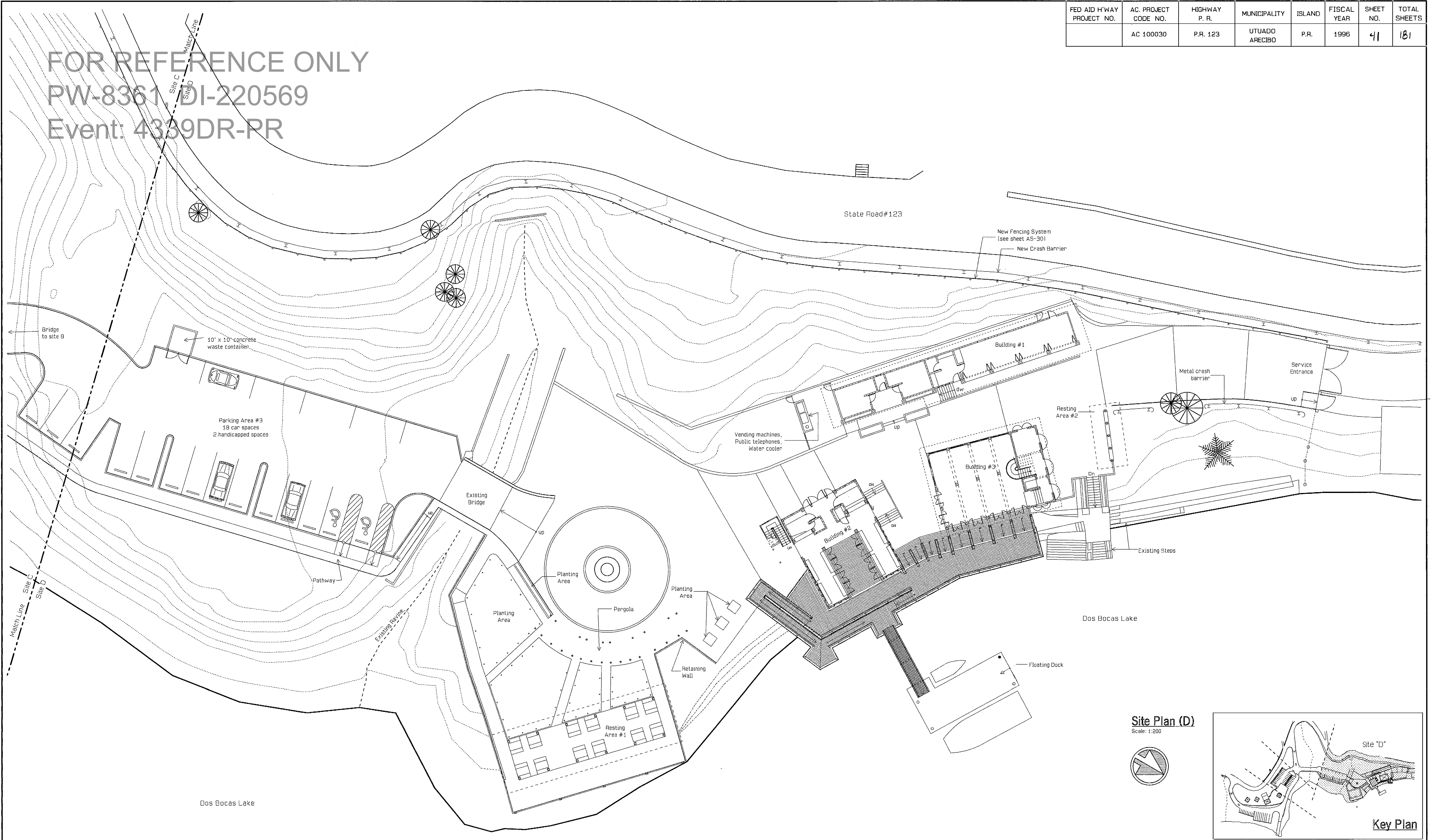
Key Plan

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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SCALE: 1:200

Architectural Site Improvement (C)

AS
04



FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	41	181

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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Partially-Sumerged Existing Smoke-Stack

DATE	REVISIONS

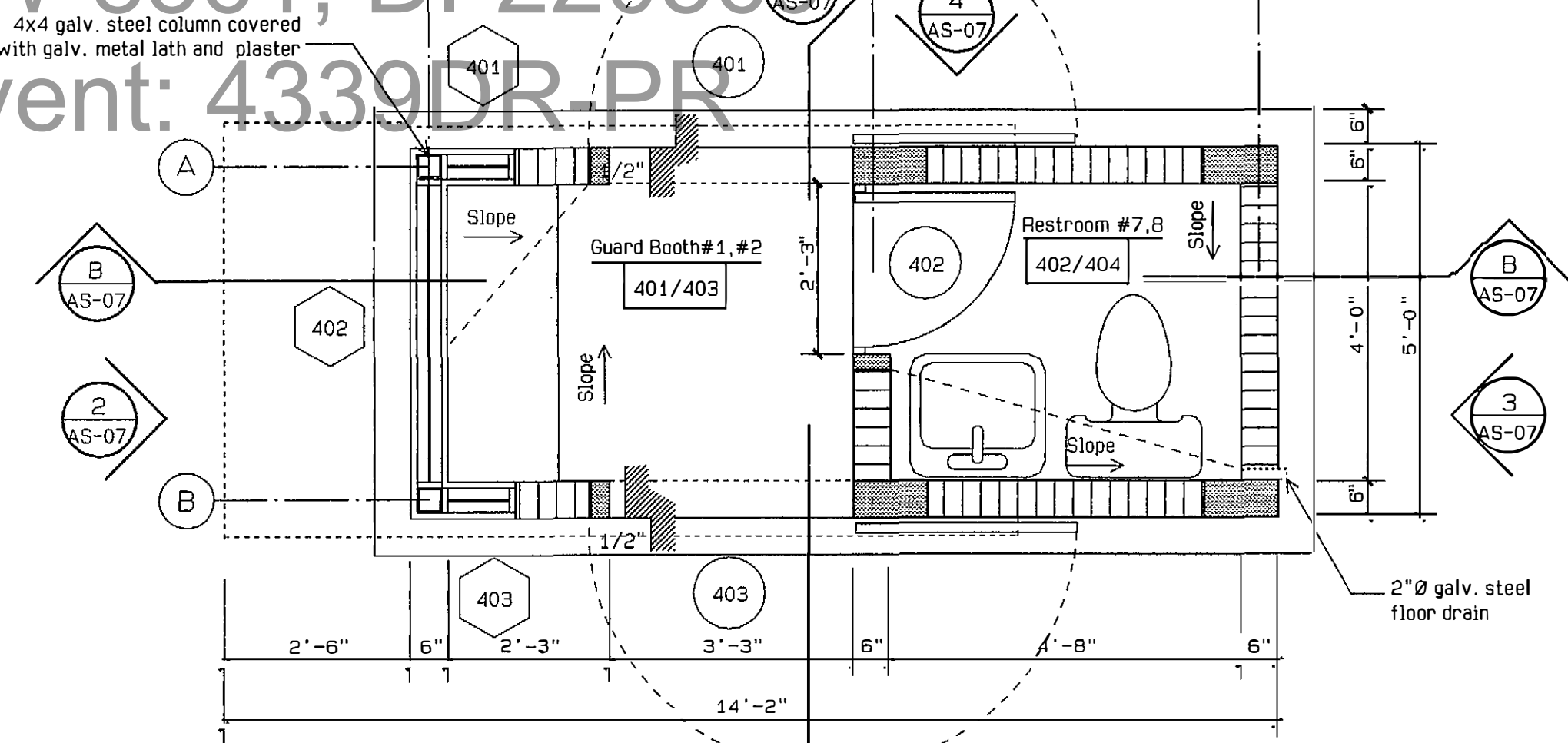
SCALE: 1:200

Architectural Site Improvement (D)

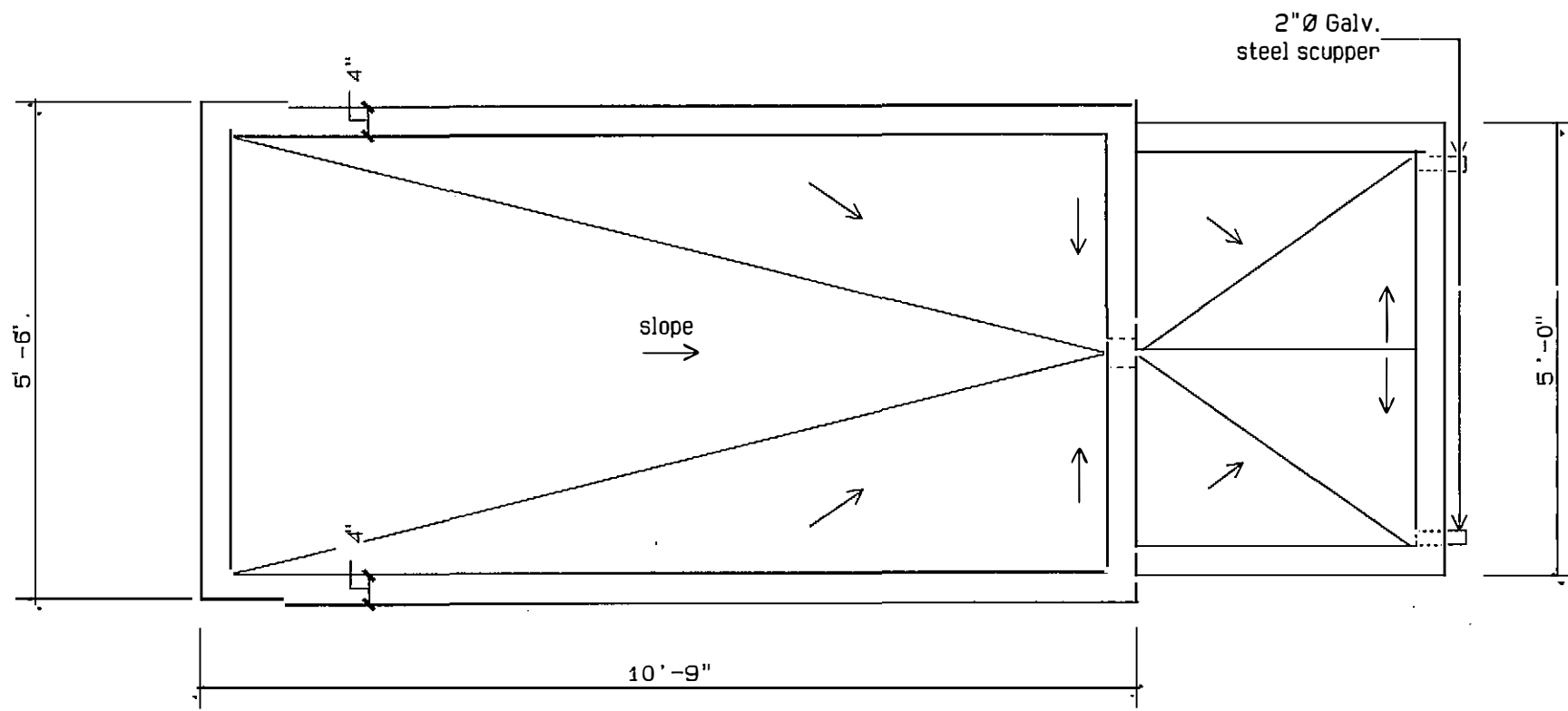
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05

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	42	181

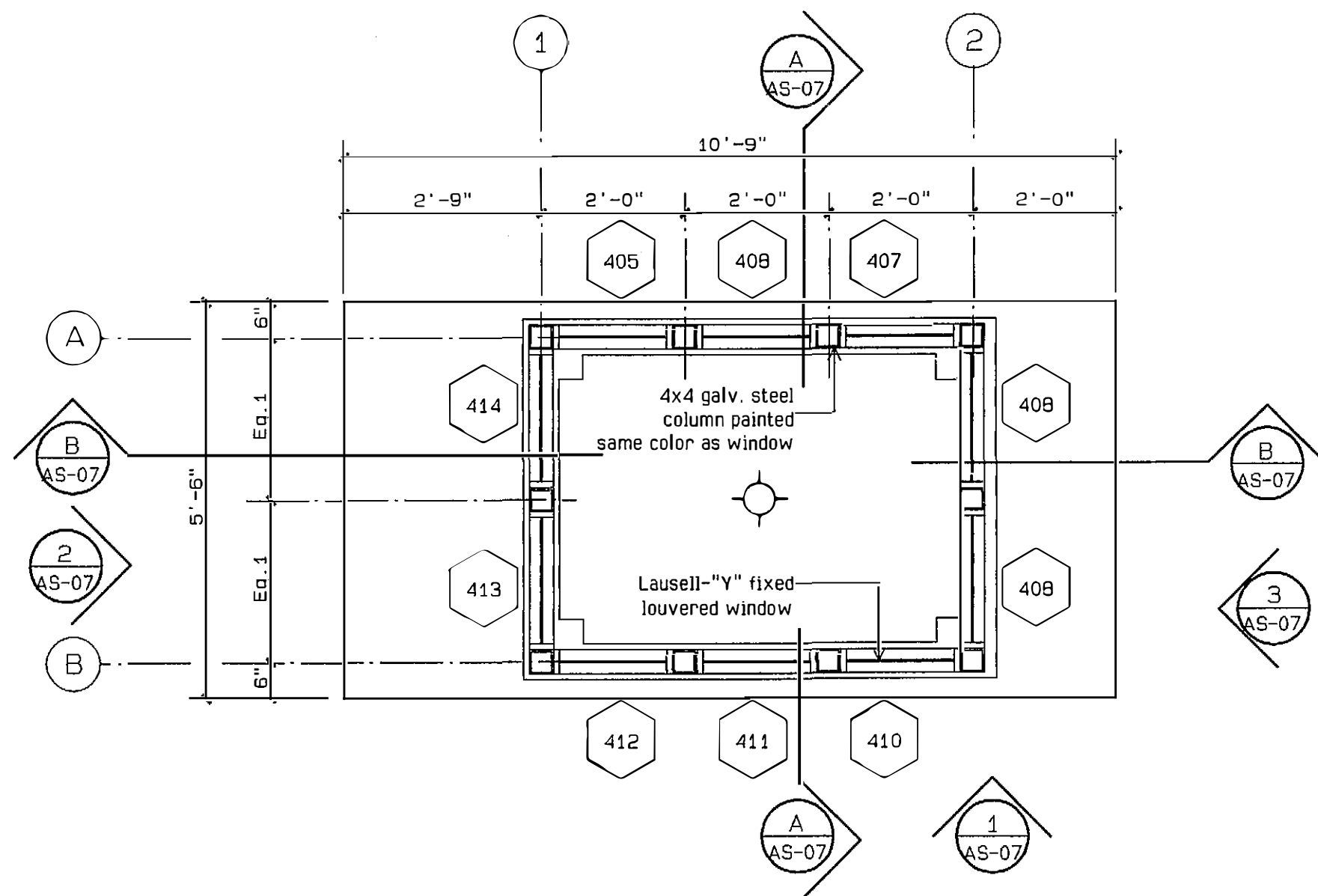
FOR REFERENCE ONLY
PW-8361, DI-220564
Event: 4339DR-PR



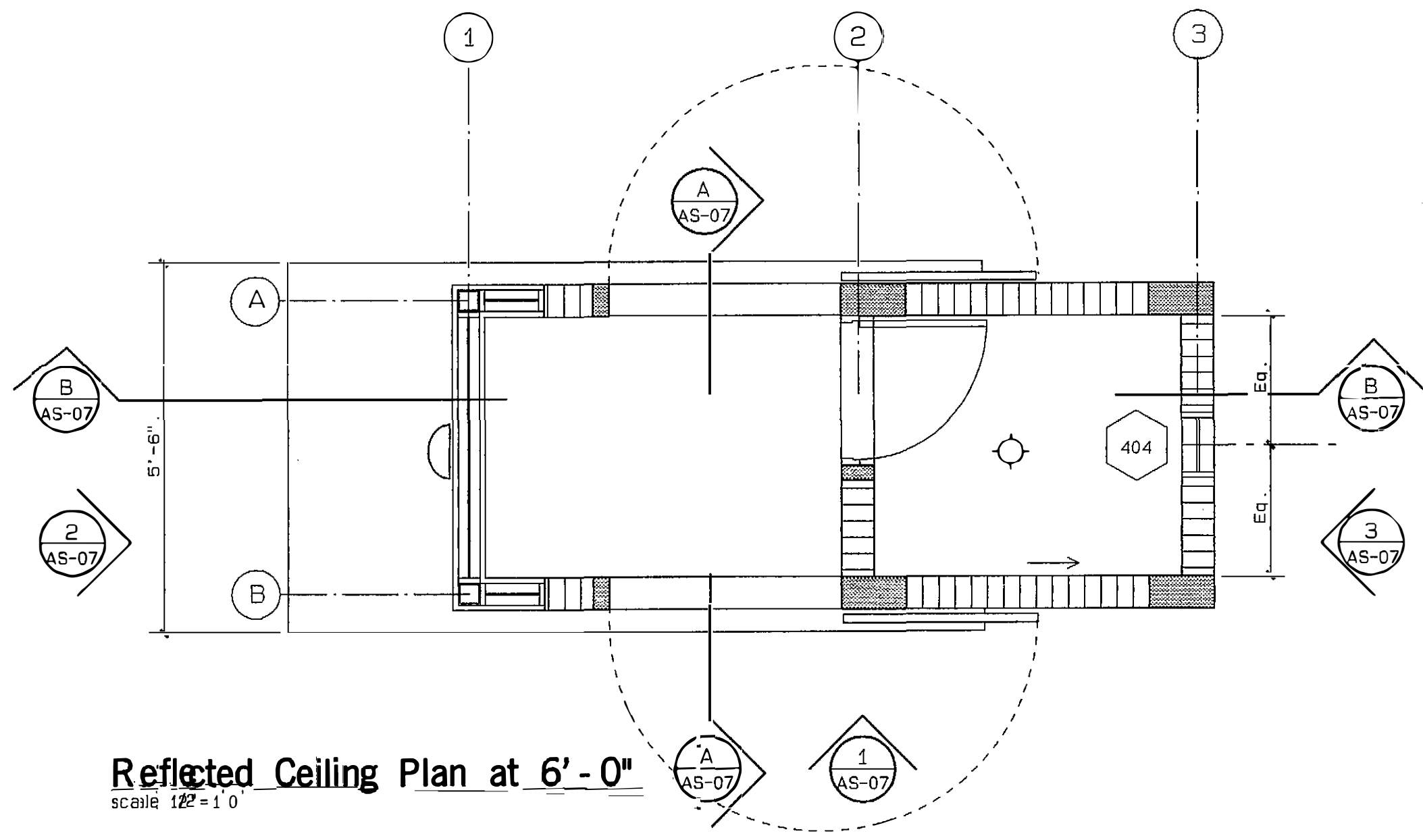
Floor Plan
Guard Booth #1, #2
Scale: 1/2" = 1'-0"



Roof Plan
Scale: 1/2" = 1'-0"
Note: All drain slopes shall be 1/4" = 1'-0"



Reflected Ceiling Plan at 9'-0"
Scale: 1/2" = 1'-0"



Reflected Ceiling Plan at 6'-0"
Scale: 1/2" = 1'-0"

- WATERPROOFING ROOF NOTES / EMBARCADERO LAGO DOS BOCAS**
Guard Booth(s)
- All waterproofing work shall conform to Technical Specifications number 07540 - Emulsion Waterproofing (Roofing).
 - The roofing system over concrete roof slabs shall be REPUBLIC Powdered Metals, Inc., Permaroof Emulsion Waterproofing System or as approved by the Architect.
 - The following installation procedure shall be followed, as indicated in the specifications (all mentioned products are REPUBLIC).
 - Remove any gravel, soil, dust, garbage, etc. over the roofs using stiff brooms and pressured water (hydro-blasting) with a minimum force of 2,000 pounds per square inch (PSI). All surfaces to be sealed shall be left clean and dry.
 - Create drain slopes with "Light-weight Concrete", with a minimum thickness of 1" the minimum slope shall be 1/4" per linear foot.
 - Fill any hole or void with asphaltic cement (Permaroof Cement) making sure the surface is left flat and smooth.
 - Install metal roof flashings where necessary, including pressure relief vents minimum every twenty (20) feet center to center (each direction).
 - Apply primer (Permaprimer) using a one (1) gallon minimum per 100 square feet of roof.
 - Allow the primer to dry (to footstep) then apply a coat of asphaltic emulsion (Permaroof Emulsion) with a proportion of three (3) gallons per hundred (100) square feet to an area of 4" to 6" (width) greater than the polyester cloth.
 - Immediately place the polyester cloth over the area. Be sure to use a hard broom (trowel) or paint roll to "sow" the cloth and assure its adhesion and saturation (so it does not wrinkle - do not sweep the material).
 - Repeat the process for the following cloth; there shall be an overlap of at least 4 inches between layers of cloth.
 - Allow the polyester and the emulsion to dry (to footstep), then apply a thick coat of asphaltic emulsion (Permaroof Emulsion) at a proportion of five (5) gallons per hundred (100) square feet.
 - When walking is possible over the already installed material, two (2) coats of reflective coating with aluminum base (Alumination 301) shall be applied at a proportion of three (3) gallons per hundred (100) square feet of roof.
 - Allow the entire waterproofing system to dry completely before walking over it; also, it shall be protected while the remaining construction work lasts.
 - The sealing roof system shall be applied to every parapet until it meets the highest horizontal surface.
 - The General Contractor and his Roofing Sub-contractor are both responsible of verifying all dimensions related to roof waterproofing.

SCHEDULE OF FINISHES / GUARD BOOTHS No.1 & No. 2							Notes
NO.	SPACE	FLOOR	WALLS	BASE	CEILING	HEIGHT	
401	Guard Booth #1	STPC	PP, STPC	TW	PP	9'-5"	
402	Restroom #7	GT	PP, MGT	GT	PP	8'-0"	
403	Guard Booth #2	STPC	PP, STPC	TW	PP	9'-5"	
404	Restroom #8	GT	PP, MGT	GT	PP	8'-0"	
refer to FINISH DESCRIPTIONS							

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

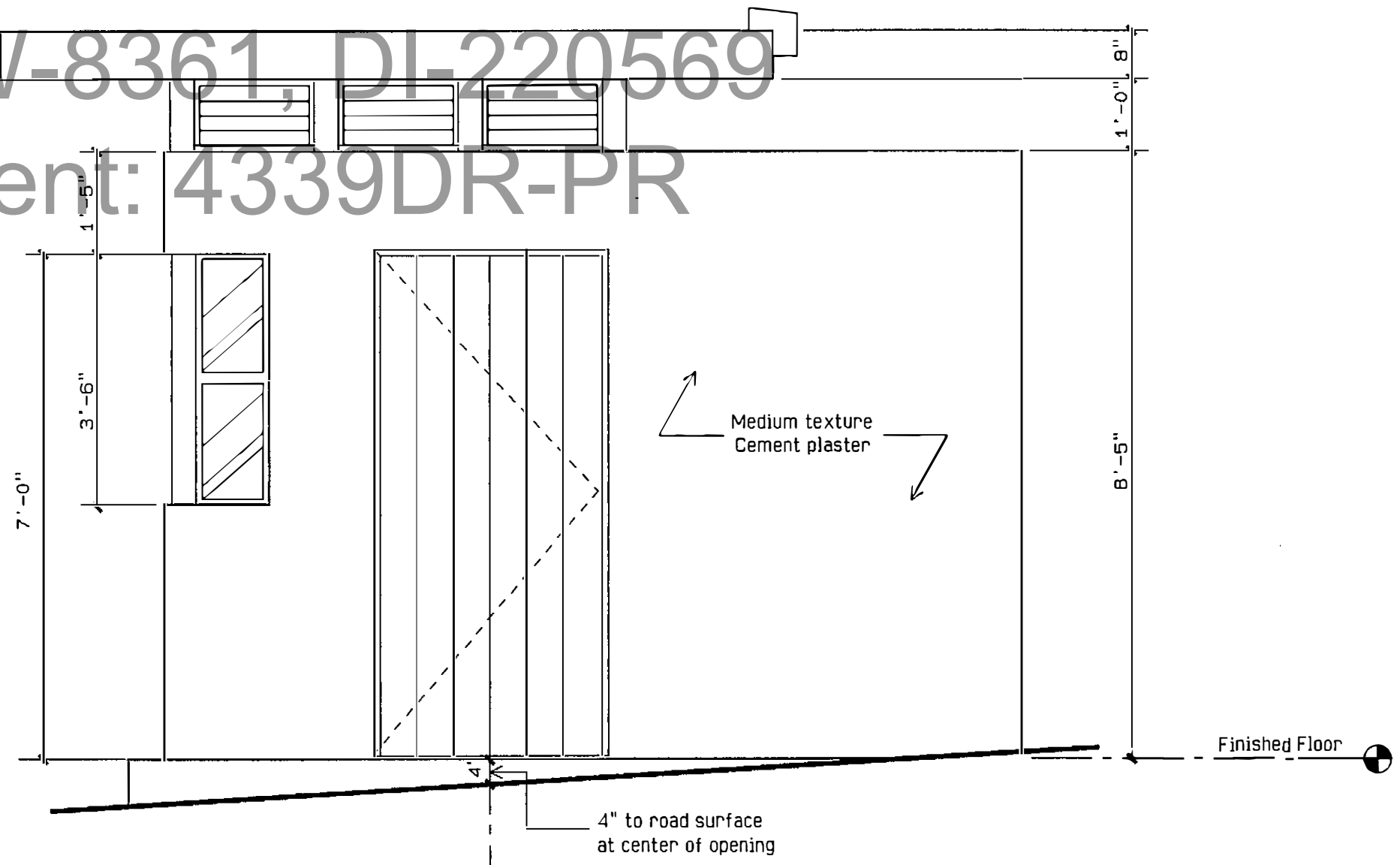
SCALE: 1/2" = 1'-0"

Plans/Guard Booths #1, #2

AS
06

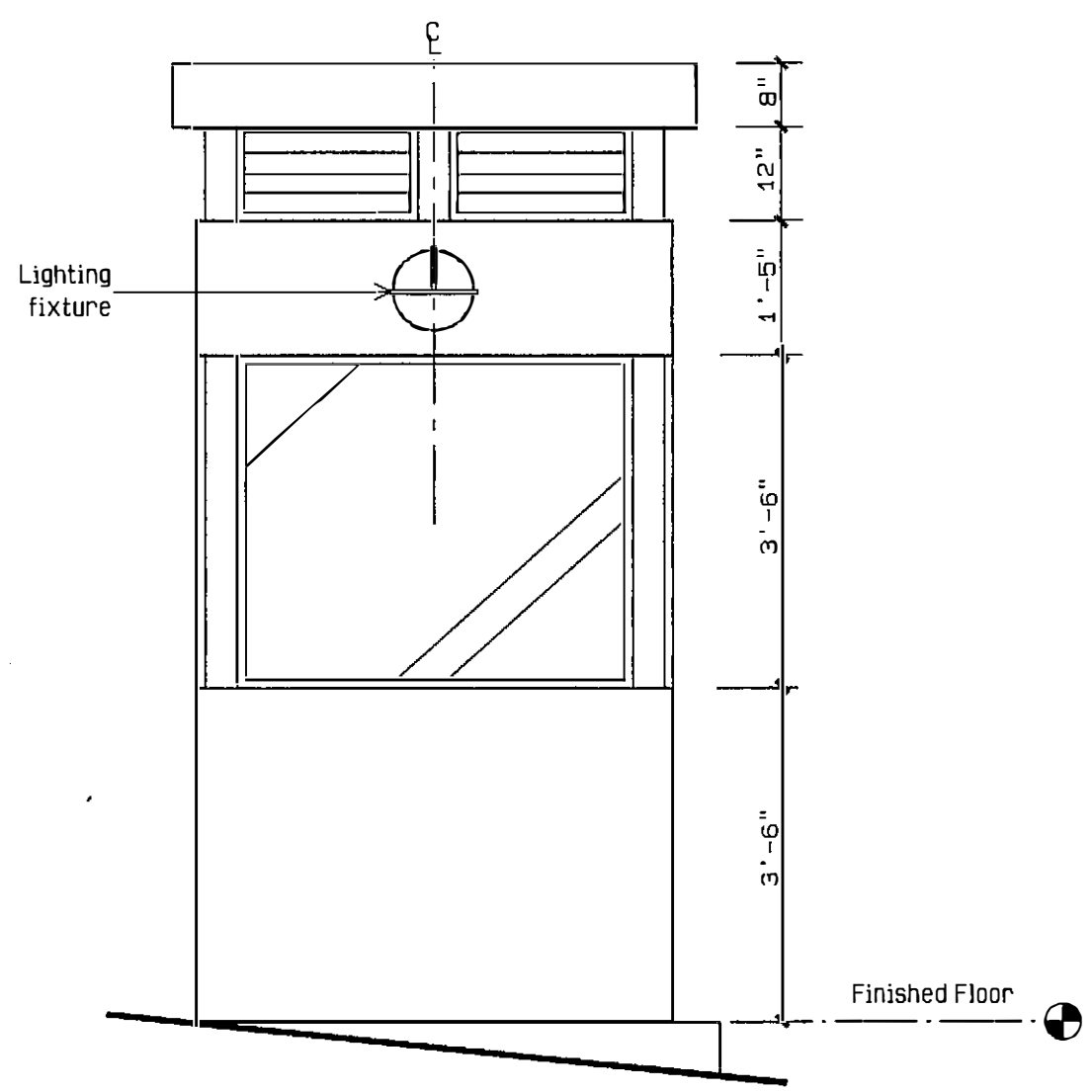
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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	43	181

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

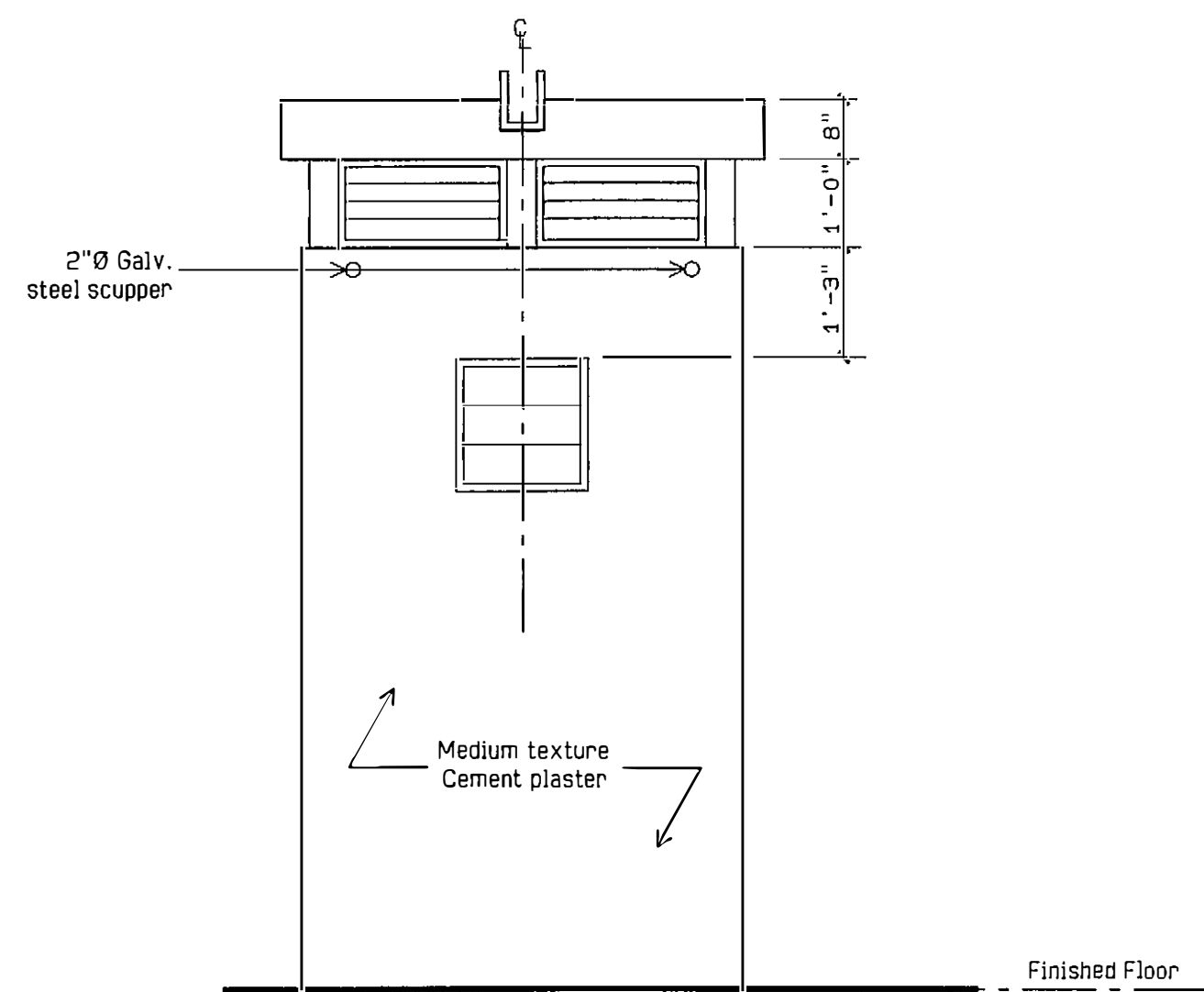


Elevation 1
Scale: 1/2" = 1'-0"

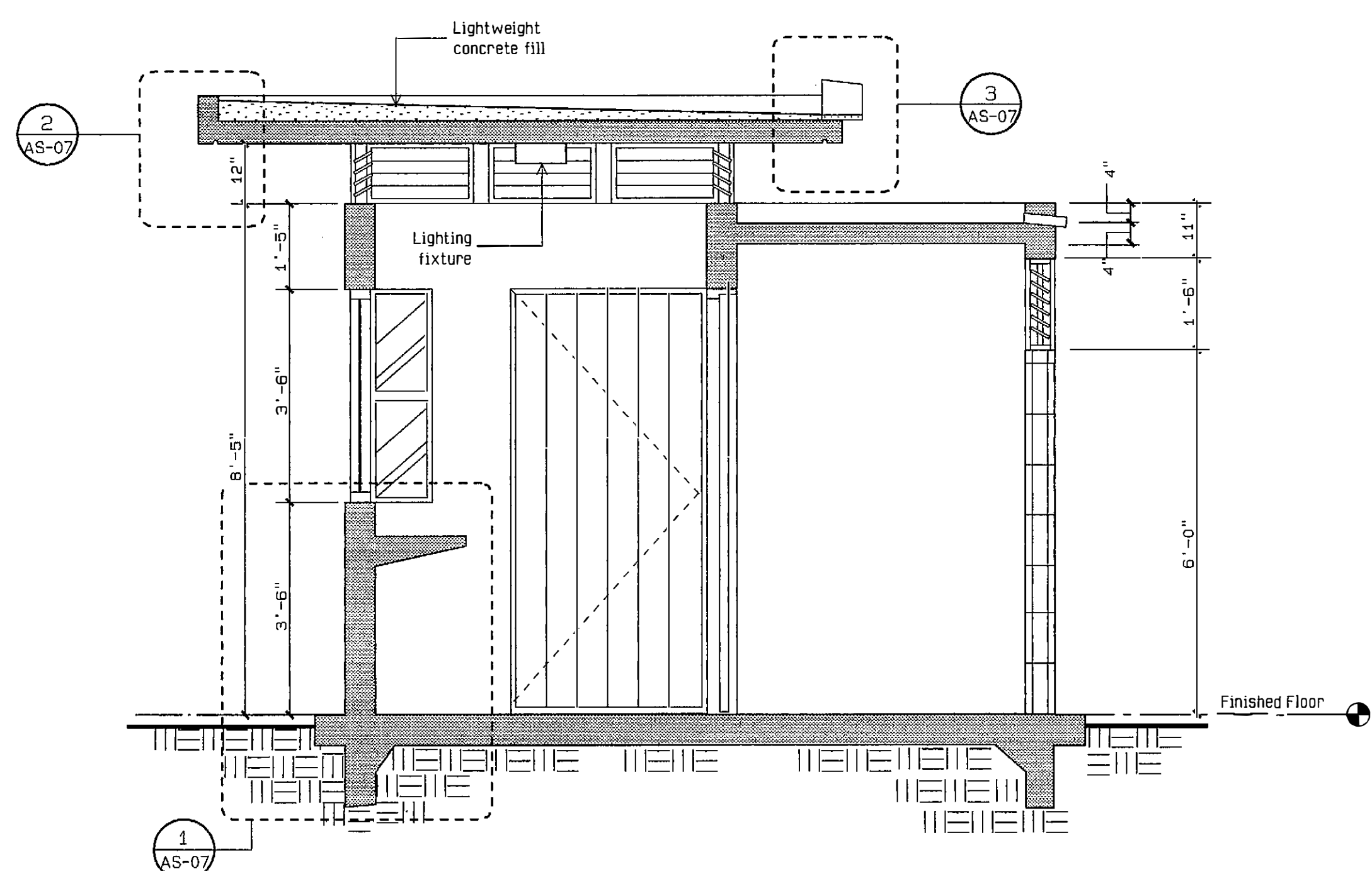
Elevation 4
Mirror image of elevation 1



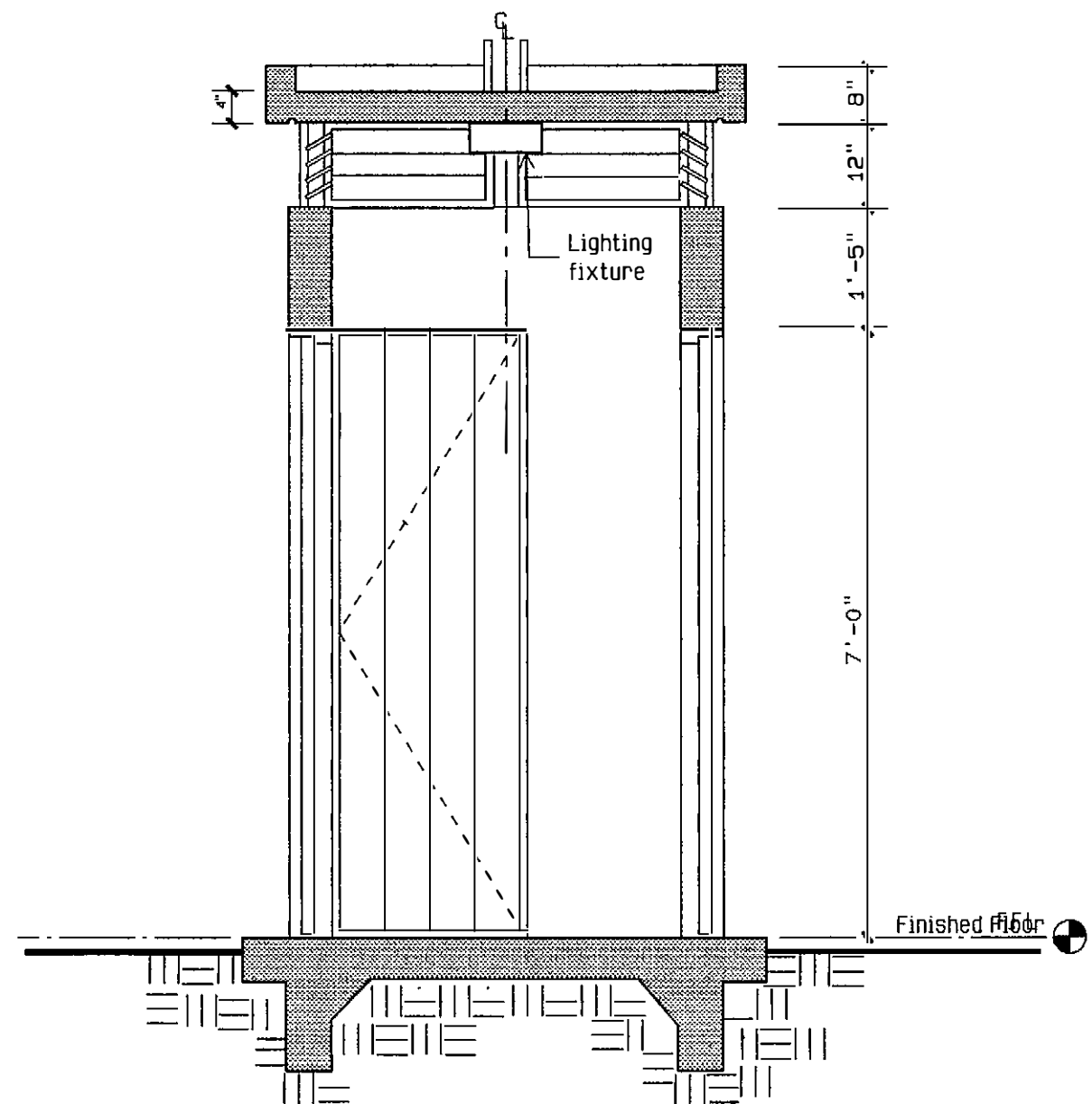
Elevation 2
Scale: 1/2" = 1'-0"



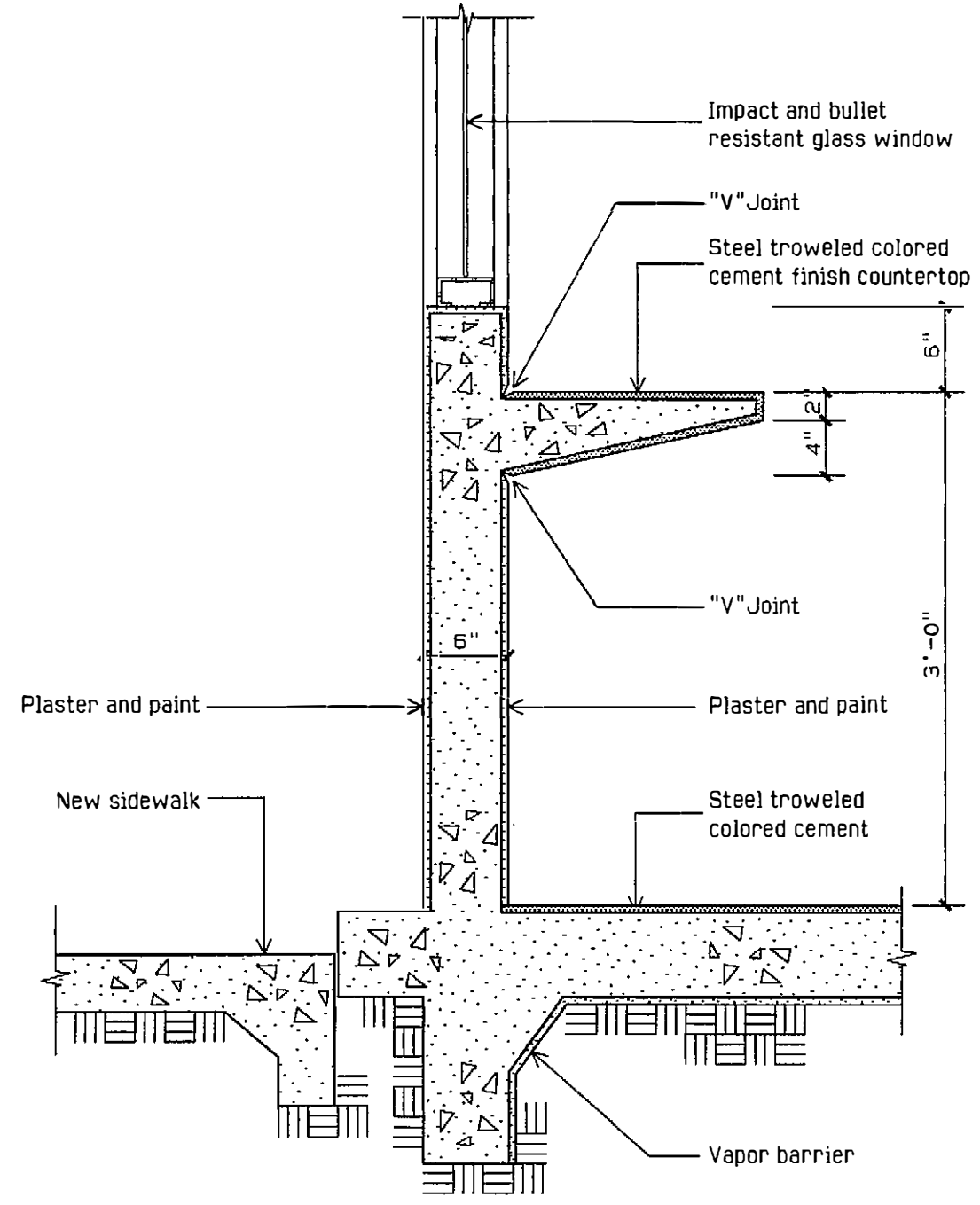
Elevation 3
Scale: 1/2" = 1'-0"



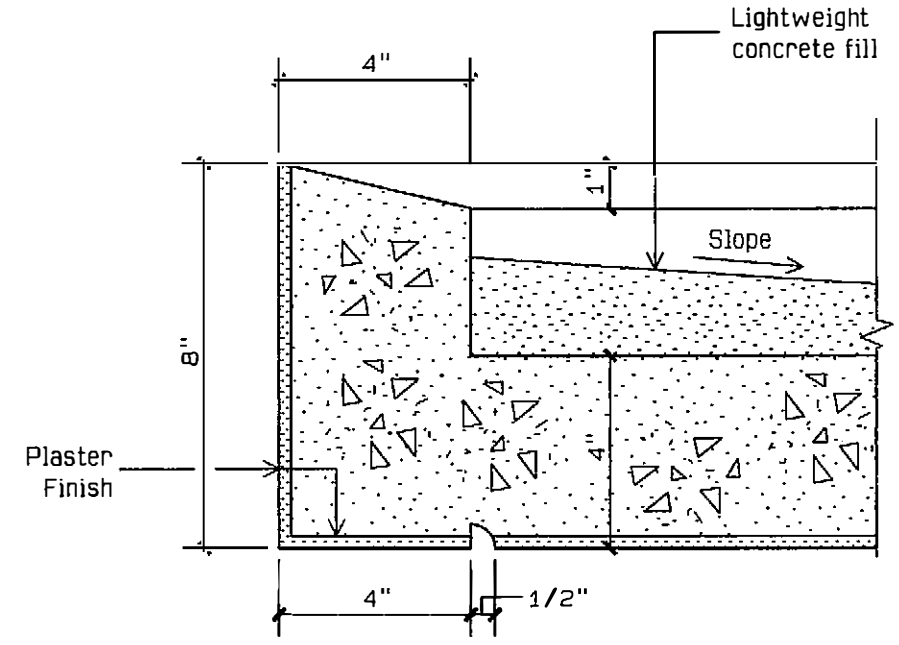
Section "B - B"
Scale: 1/2" = 1'-0"



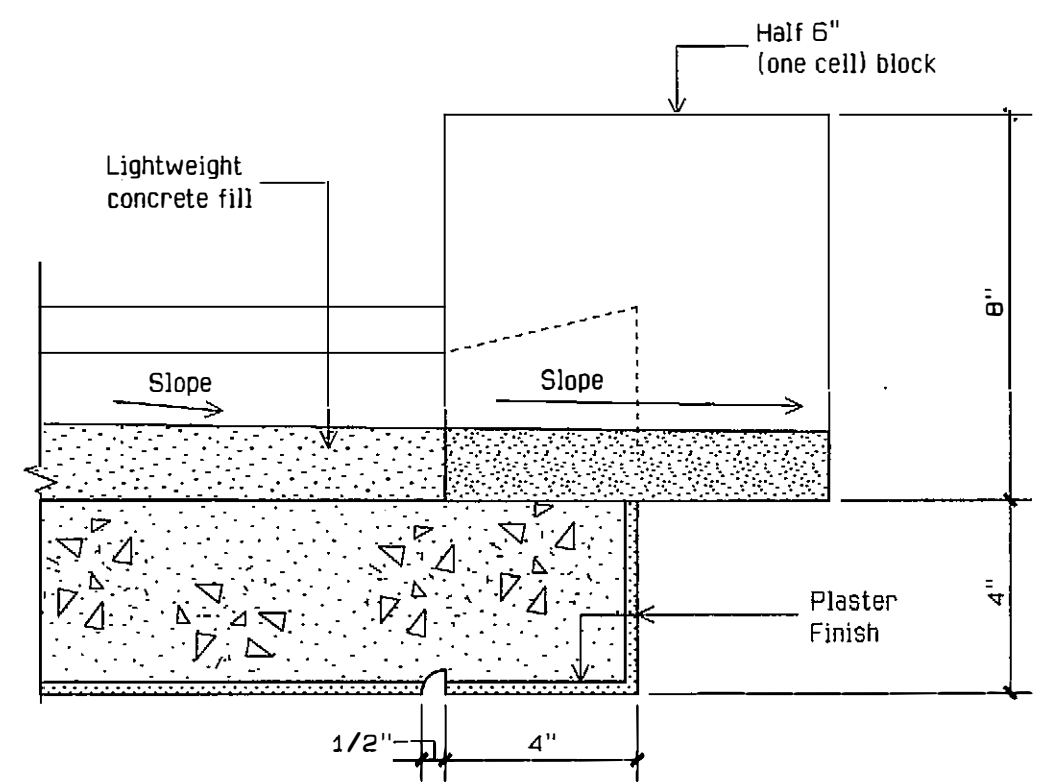
Section "A - A"
Scale: 1/2" = 1'-0"



Detail 1
Scale: 1" = 1'-0"



Detail 2
Scale: 3" = 1'-0"



Detail 3
Scale: 3" = 1'-0"

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

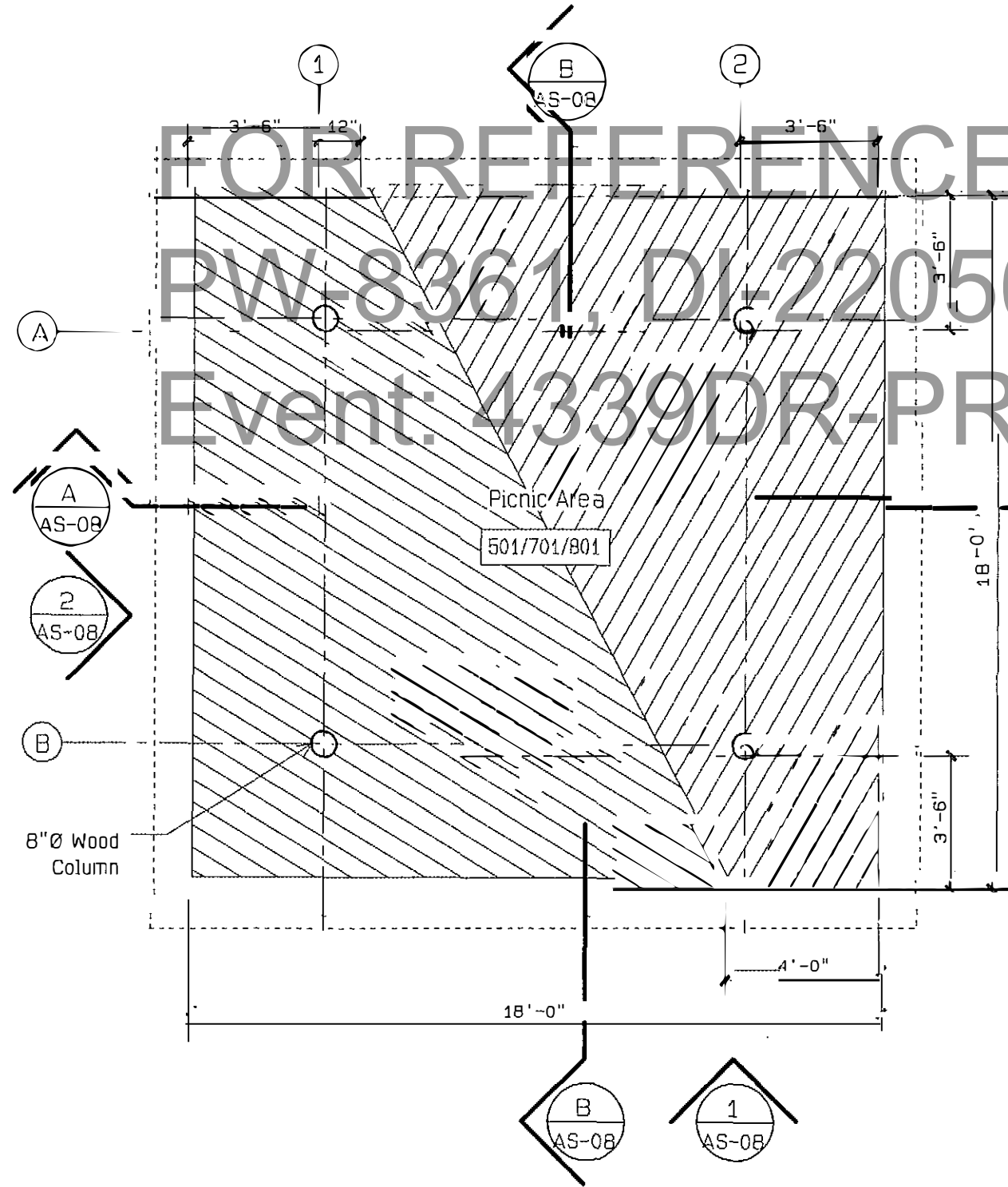
DATE	REVISIONS

SCALE: AS SHOWN

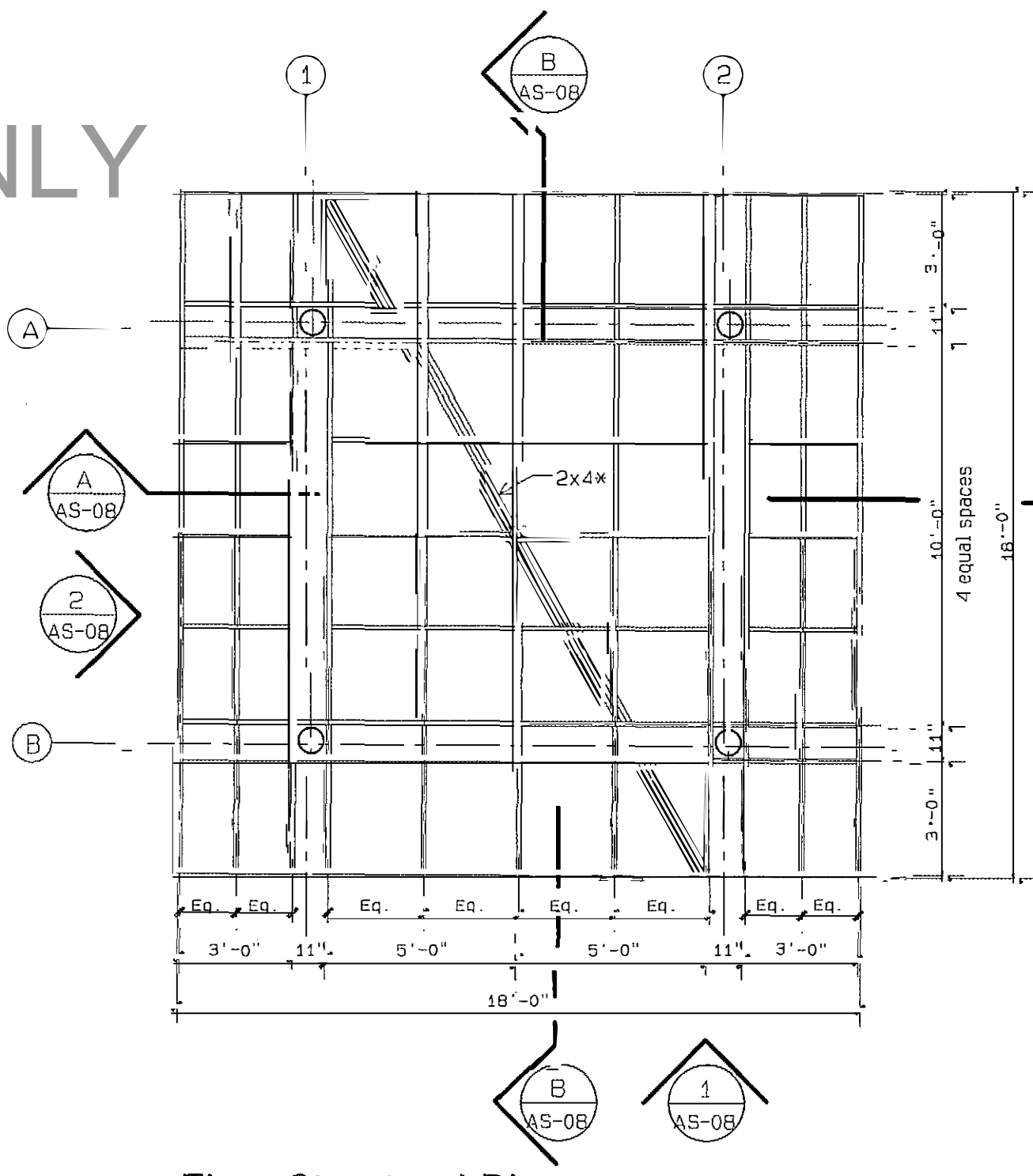
Guard Booths / Elevations, Sections
Site Plan (A) & (C)

AS
07

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	44	181

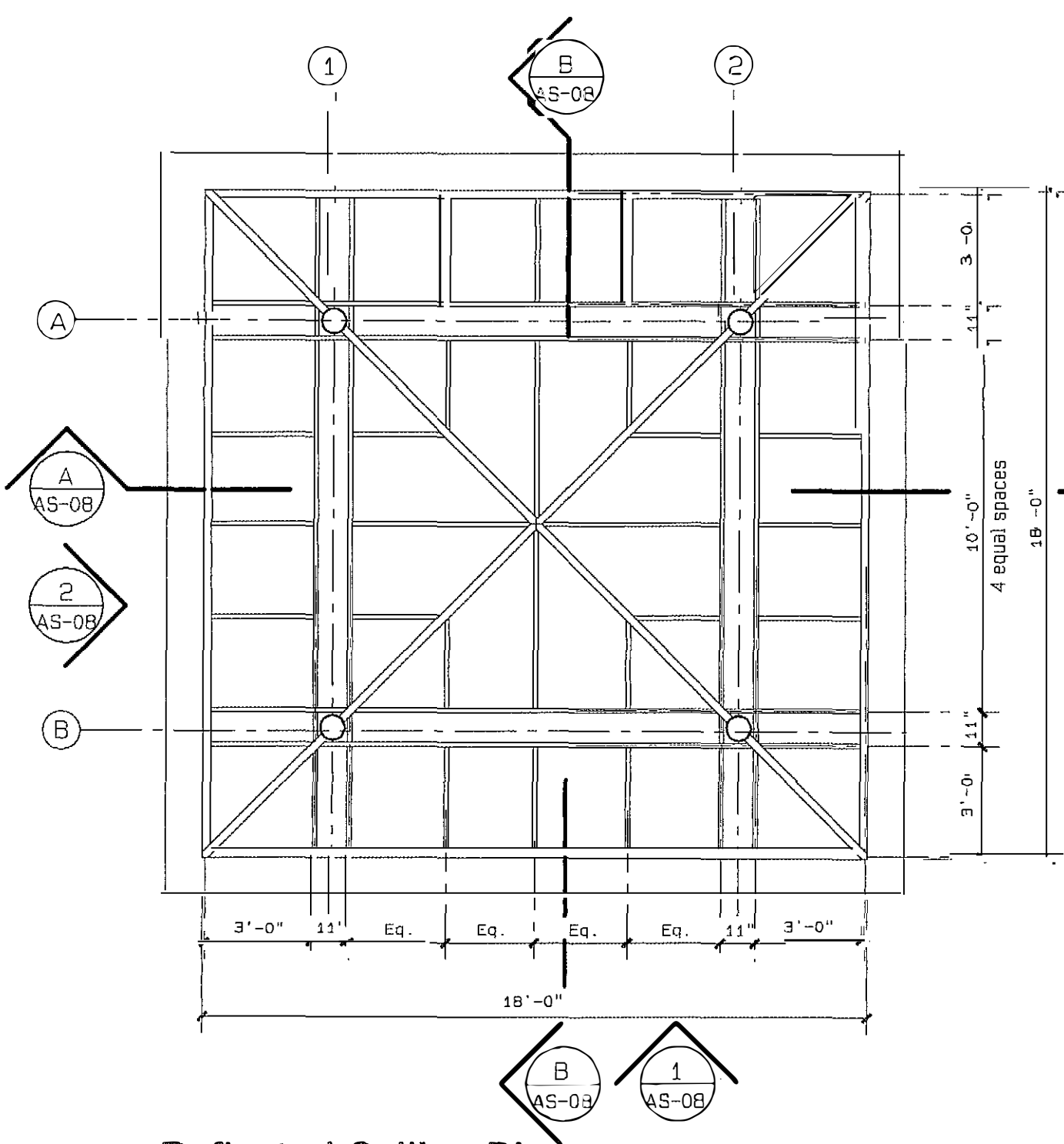


Floor Plan
Scale: 1/4" = 1'-0"



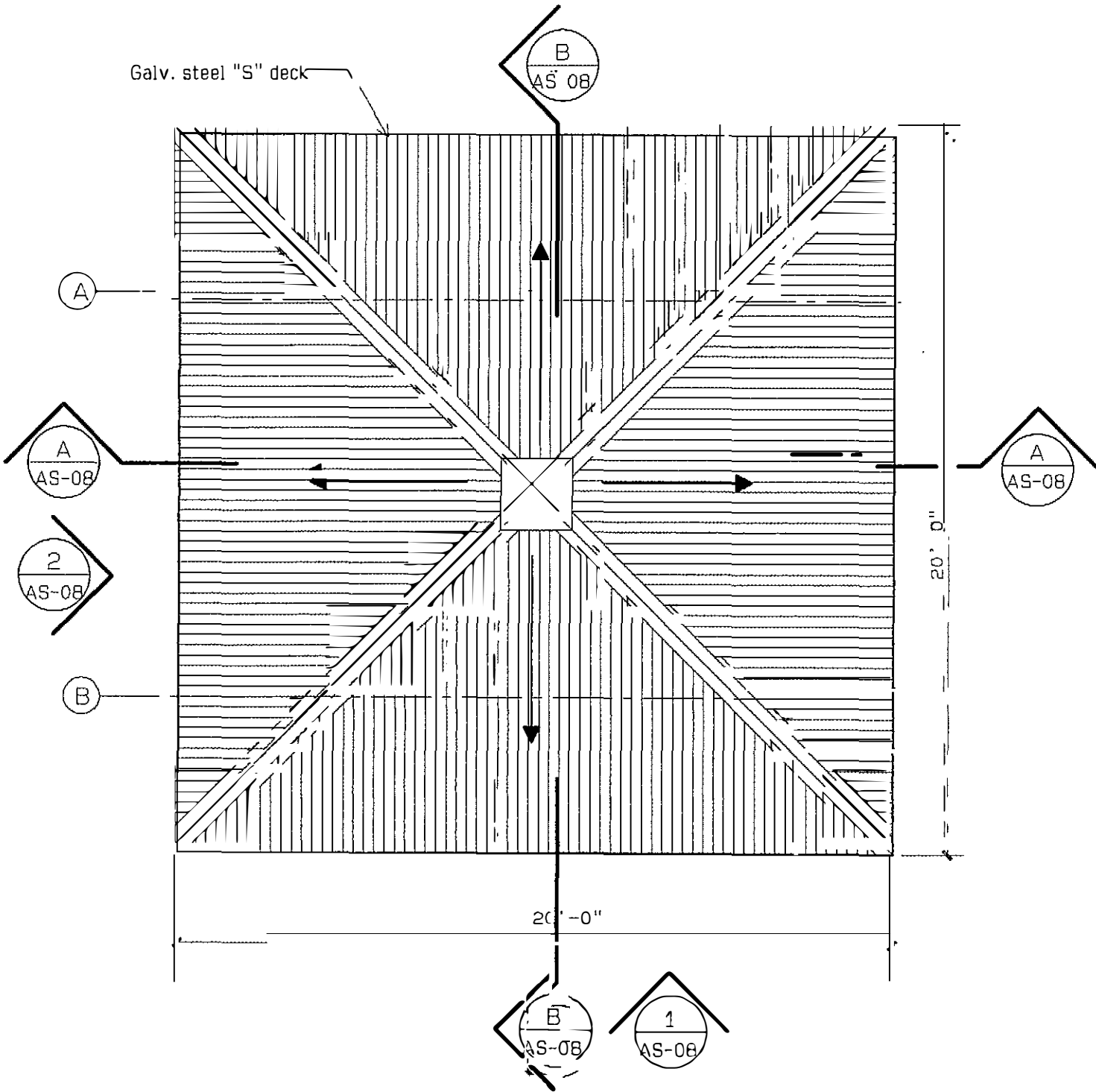
Floor Structural Plan
Scale: 1/4" = 1'-0"

*2"x4" to be used to nail down the wood flooring deck.
For floor beams' sizes see sections
schedule on sheet S-8.0

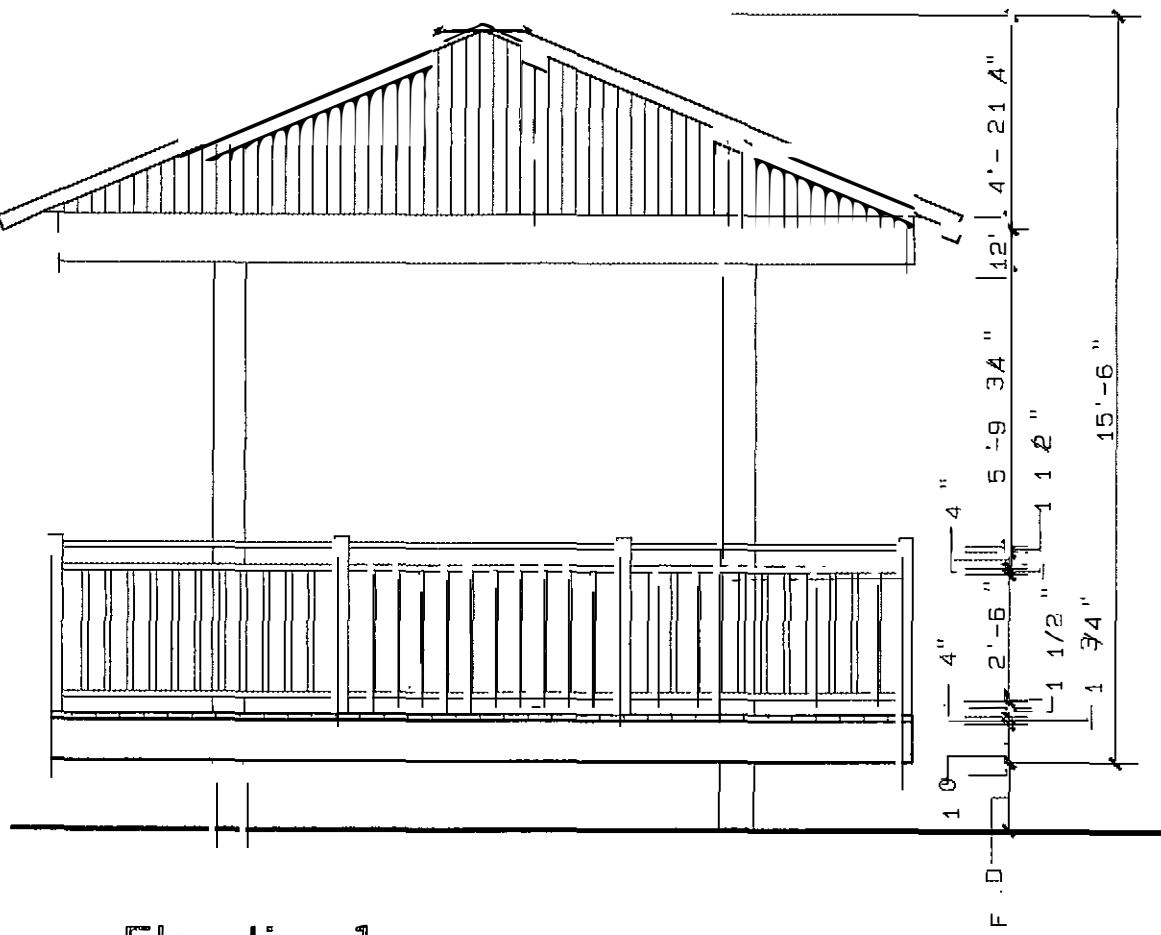


Reflected Ceiling Plan
Scale: 1/4" = 1'-0"

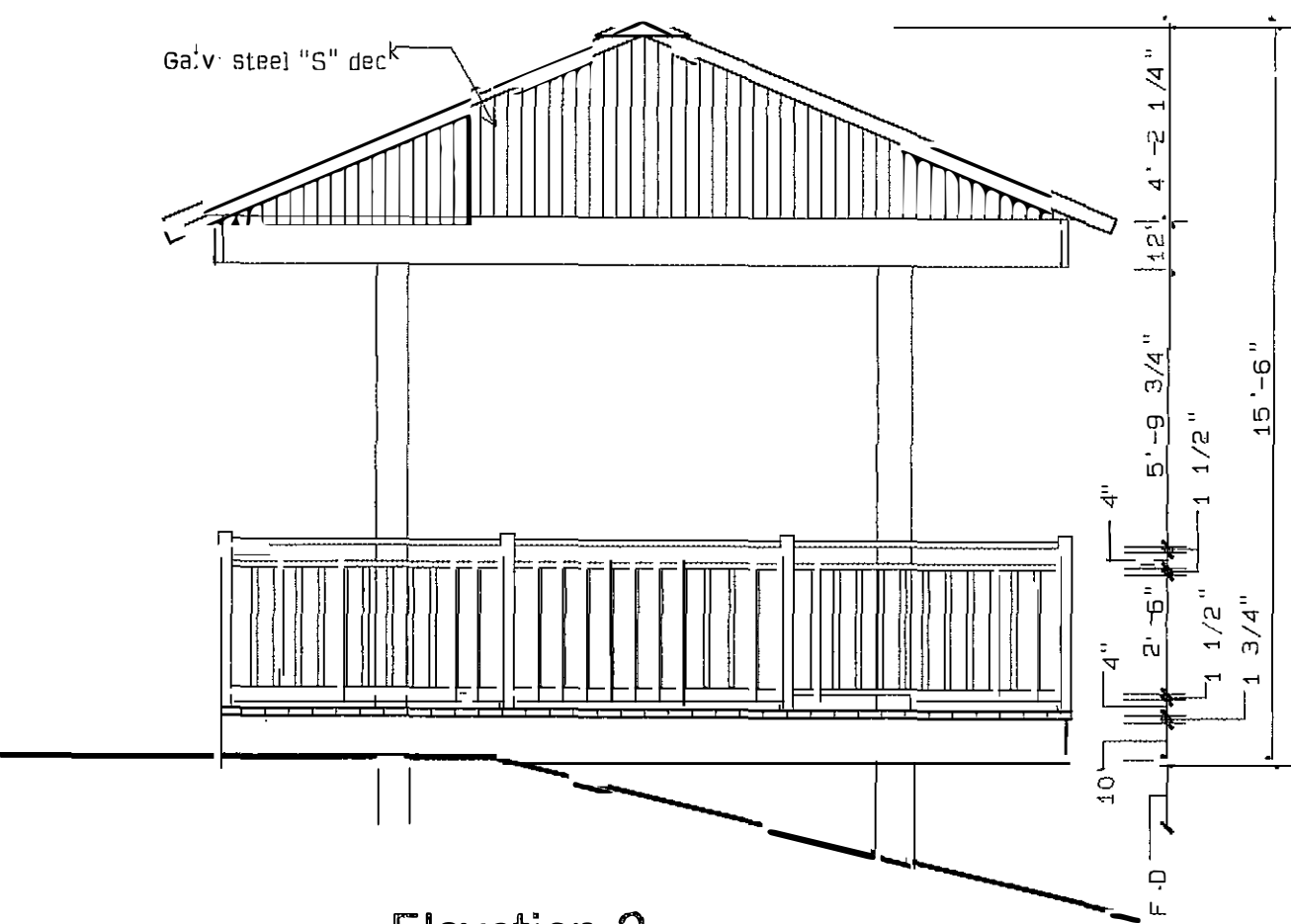
* For roof beams' sizes see sections
schedule on sheet S-8.0



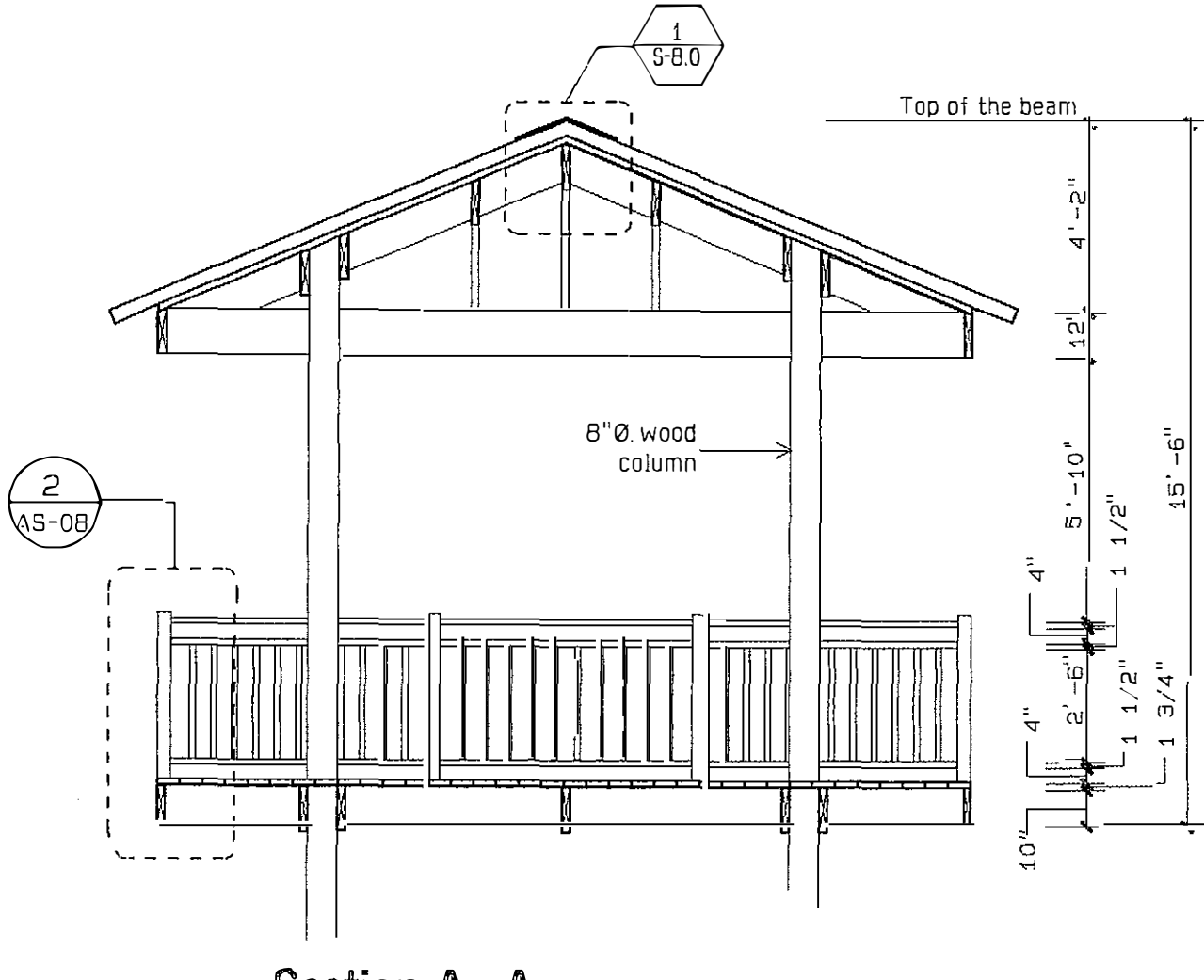
Roof Plan
Scale: 1/4" = 1'-0"



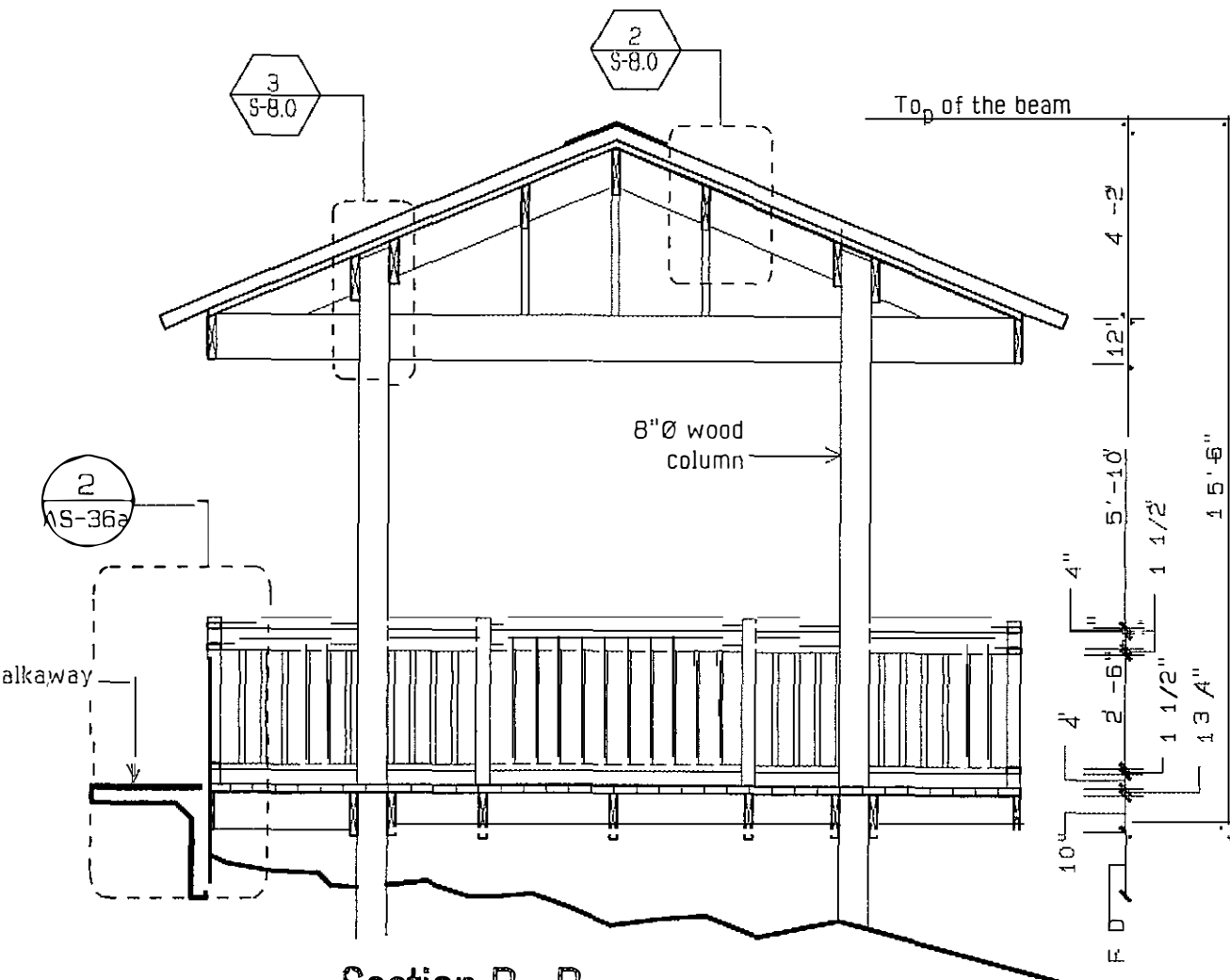
Elevation 1
Scale: 1/4" = 1'-0"



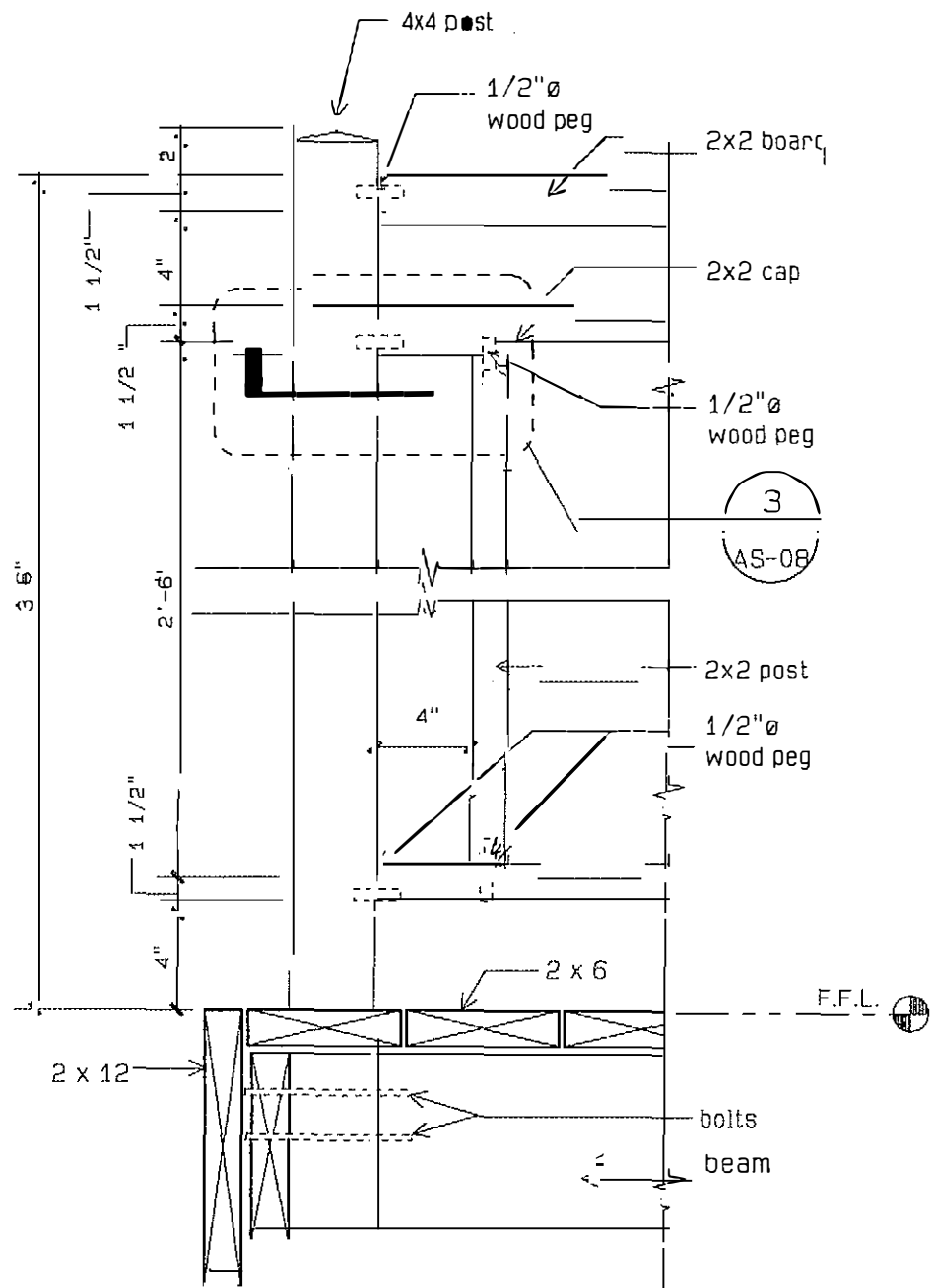
Elevation 2
Scale: 1/4" = 1'-0"



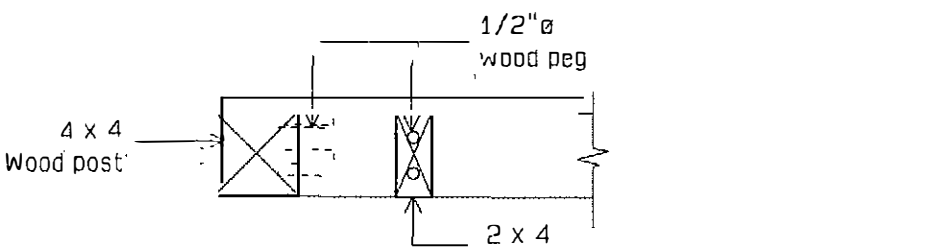
Section A - A
Scale: 1/4" = 1'-0"



Section B - B
Scale: 1/4" = 1'-0"



Detail 2
Scale: 1 1/2" = 1'-0"



Detail 3
Scale: 1 1/2" = 1'-0"

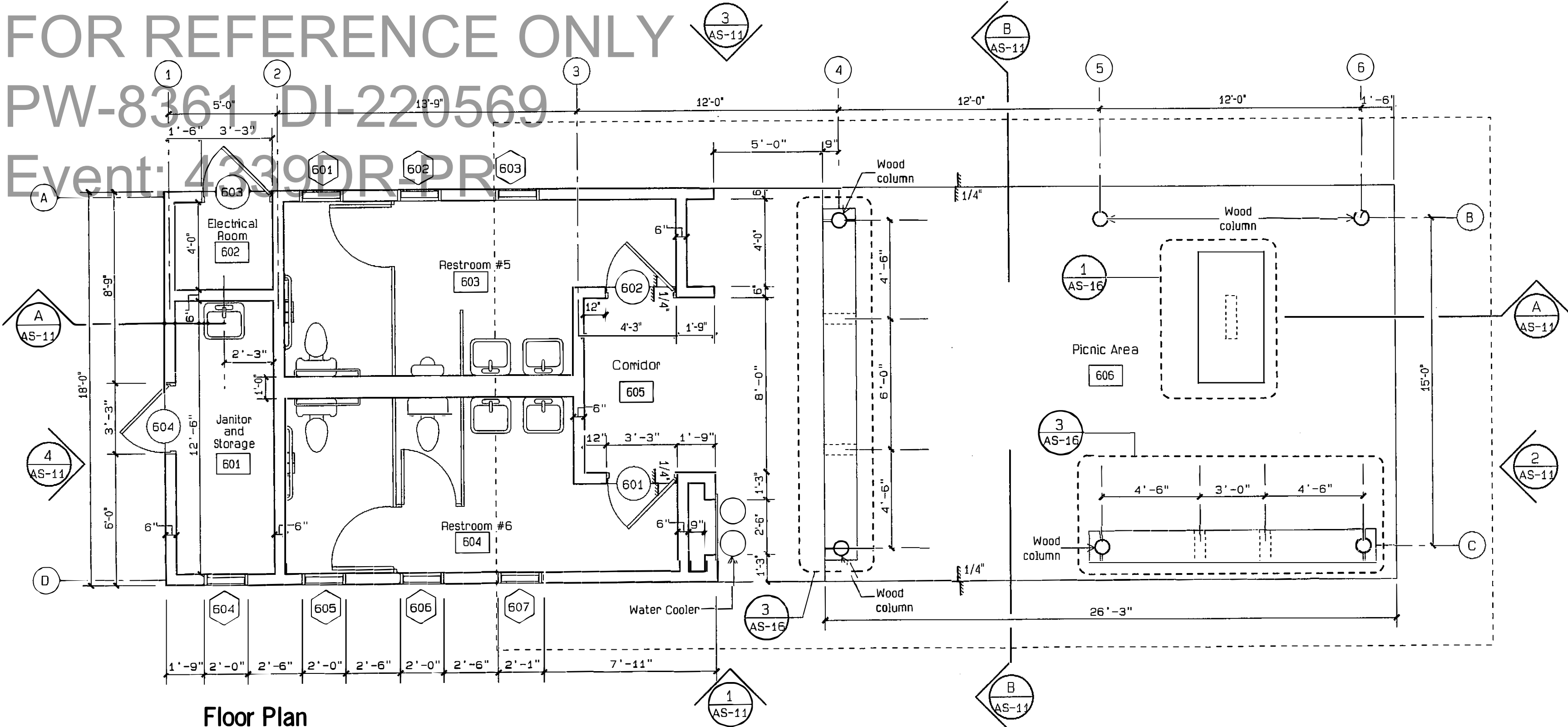
SCHEDULE OF FINISHES / GAZEBO No. 1						
NO.	SPACE	FLOOR	WALLS	BASE	CEILING	HEIGHT
501	Picnic Area	TW	TW (columns)	TW	TGWB	14'-0"

SCHEDULE OF FINISHES / GAZEBO No. 2						
NO.	SPACE	FLOOR	WALLS	BASE	CEILING	HEIGHT
701	Picnic Area	TW	TW (columns)	TW	TGWB	14'-0"

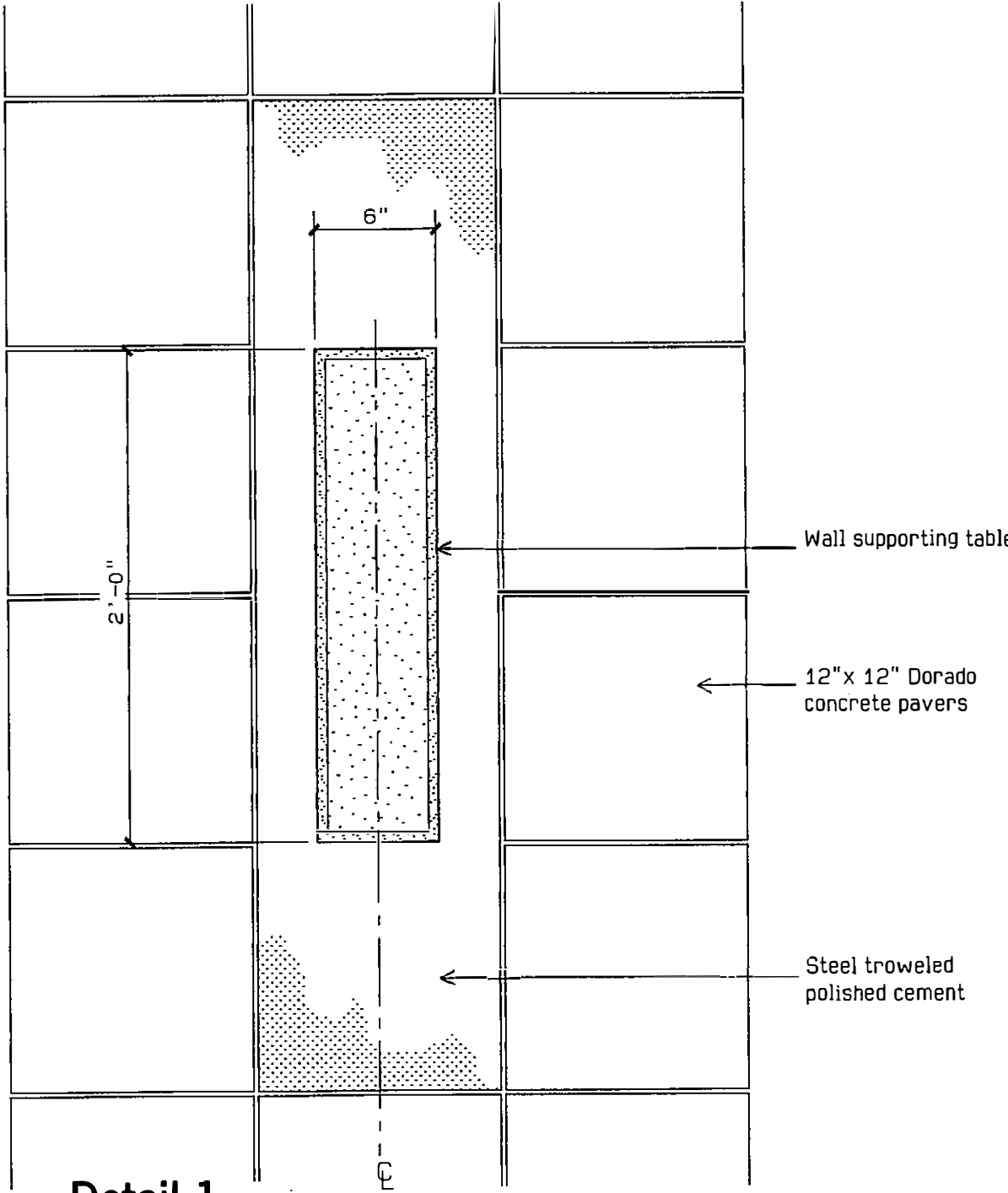
SCHEDULE OF FINISHES / GAZEBO No. 4						
NO.	SPACE	FLOOR	WALLS	BASE	CEILING	HEIGHT
801	Picnic Area	TW	TW (columns)	TW	TGWB	14'-0"
refer to FINISH DESCRIPTIONS						

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	45	181

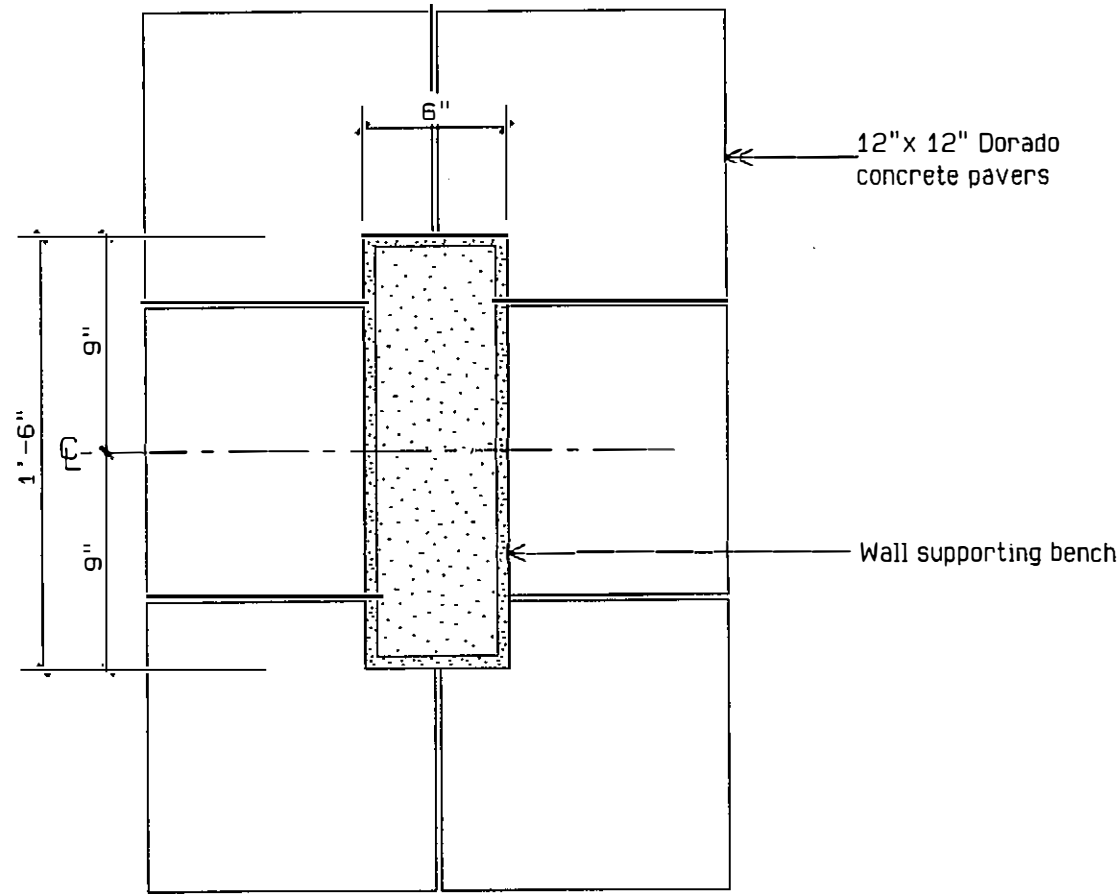
FOR REFERENCE ONLY
PW-8361 DI-220569
Event: 4239DR-PR



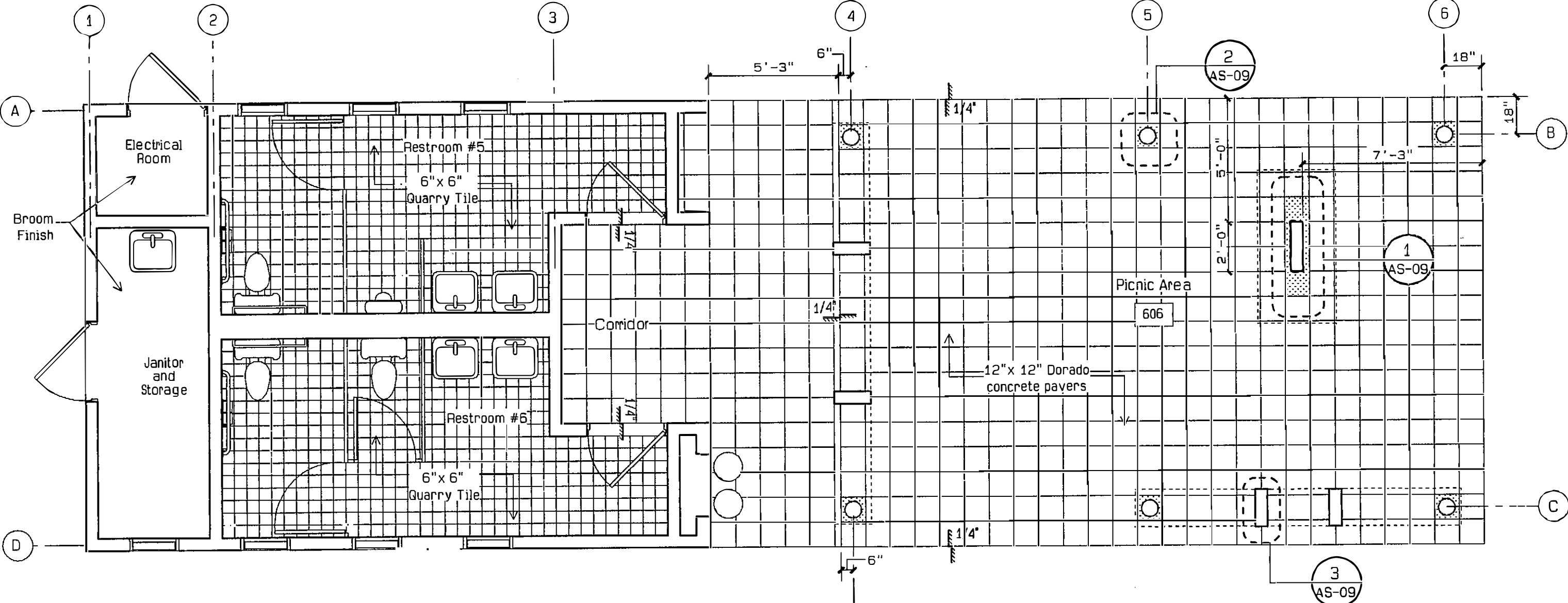
Floor Plan
Restroom #5,6/ Gazebo #3
Scale : 1/4" = 1'-0"



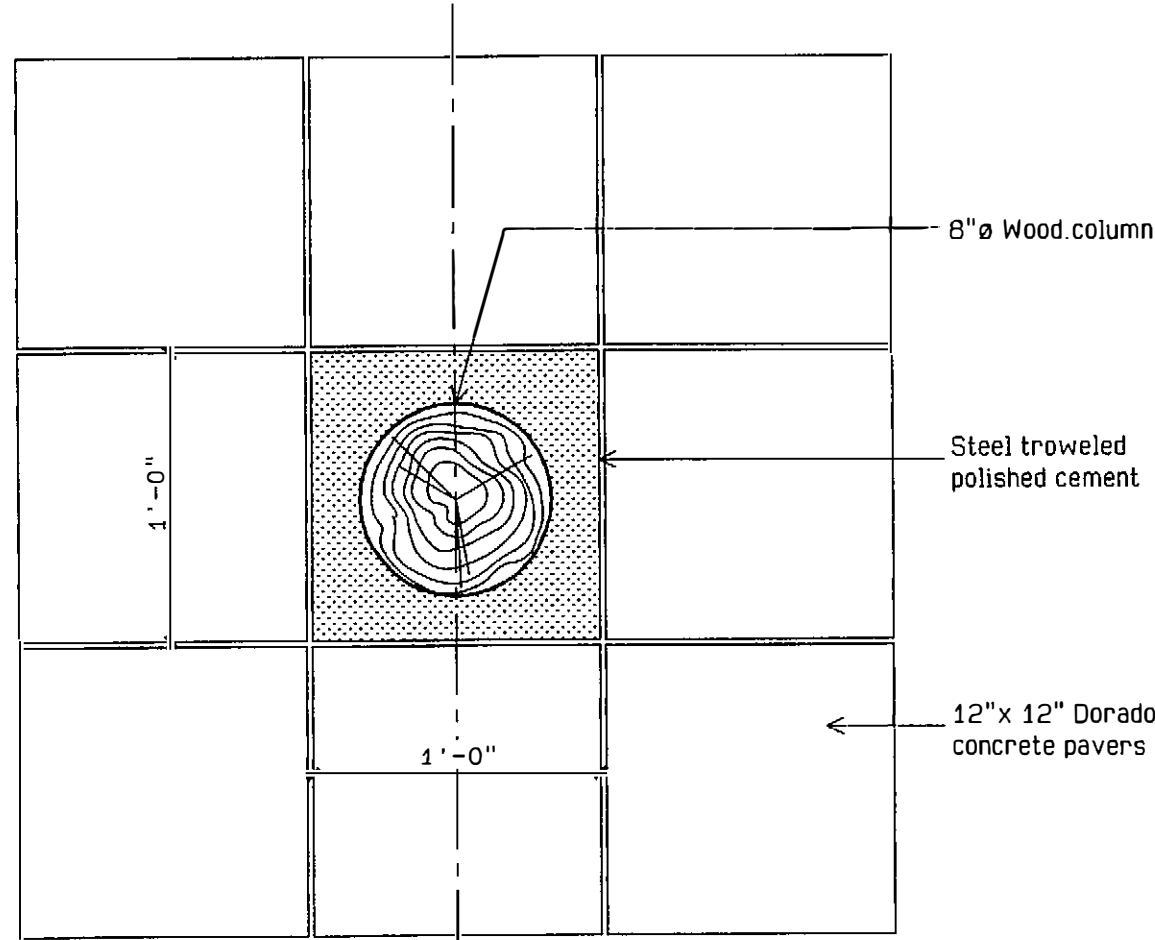
Detail 1
Scale : 1 1/2" = 1'-0"



Detail 3
Scale : 1 1/2" = 1'-0"



Floor Pattern Plan
Restroom #5,6/ Gazebo #3
Scale : 1/4" = 1'-0"



Detail 2
Scale : 1 1/2" = 1'-0"

SCHEDULE OF FINISHES / GAZEBO No. 3							Notes
NO.	SPACE	FLOOR	WALLS	BASE	CEILING	HEIGHT	
601	Janitor & Storage Rm	STPC	PP, STPC	TW	PP	7'-4"	
602	Electrical Room	STPC	PP, STPC	TW	PP	7'-4"	
603	Restroom #5	QT	PP, MGT	QT	PP	7'-4"	
604	Restroom #6	QT	PP, MGT	QT	PP	7'-4"	
605	Corridor	CP	TW (columns)	TW	PP, TGWB	7'-4" to 16'-0"	
606	Picnic Area	TW	TW (columns)	TW	TGWB	16'-0"	
refer to FINISH DESCRIPTIONS							

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

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

Floor Pattern & Floor Plan
Gazebo #3

AS
09

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	46	181

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

STEEL DECK (ROOF) NOTES / EMBARCADERO LAGO DOS BOCAS
Gazebos

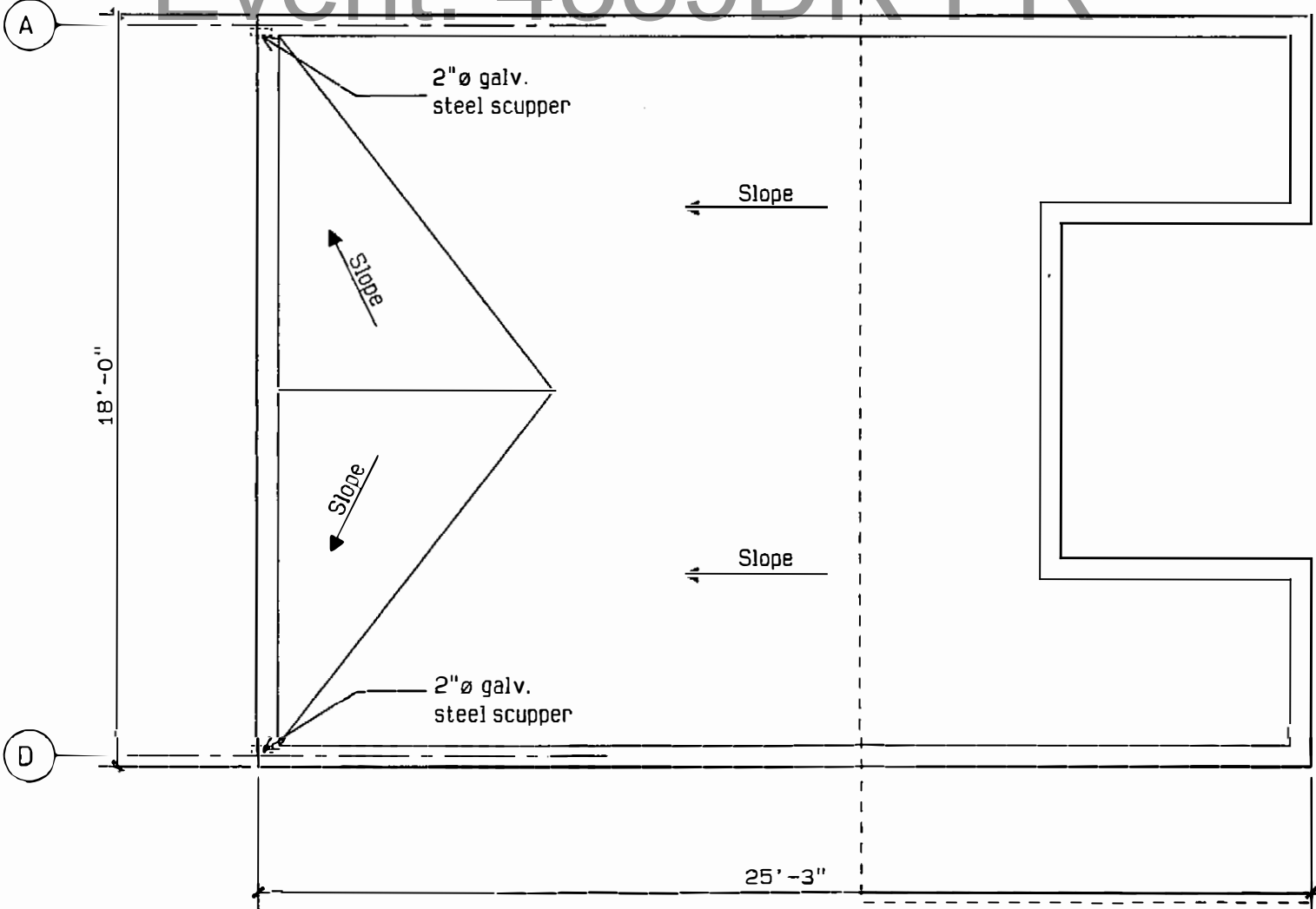
1. Galvanized steel roof deck shall be type "S" deck, corrugated structural metal sheathing as fabricated by BERRIDGE MANUFACTURING COMPANY, 1720 Maury Street, Houston, Texas 77026, phone numbers (800) 231-8127 / (713) 223-4971 or approved equal.

The general specifications are:

- a. Panel thickness - 24 gauge
b. Panel steel conforms to ASTM A446-85 Grade C.
c. The exterior finish shall be full-strength KYNAR 500, Galvalume fluorocarbon coating. Top side film thickness shall be 0.70 to 0.90 mil over a 0.25 to 0.30 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil. The interior finish of this material shall be coated with a primer with a minimum dry film thickness of 0.25 mil.
d. Color shall be: Terra Cotta.
2. All pertinent details of ridges, flashings and channels for steel roofs will be submitted by the Contractor and/or manufacturer of the galvanized steel roof. These will be approved by the Architect before proceeding to their fabrication.
3. All steel roofing shall be connected to ground (grounded) to conform with Article 250 from the National Electric Code, 1993 edition.

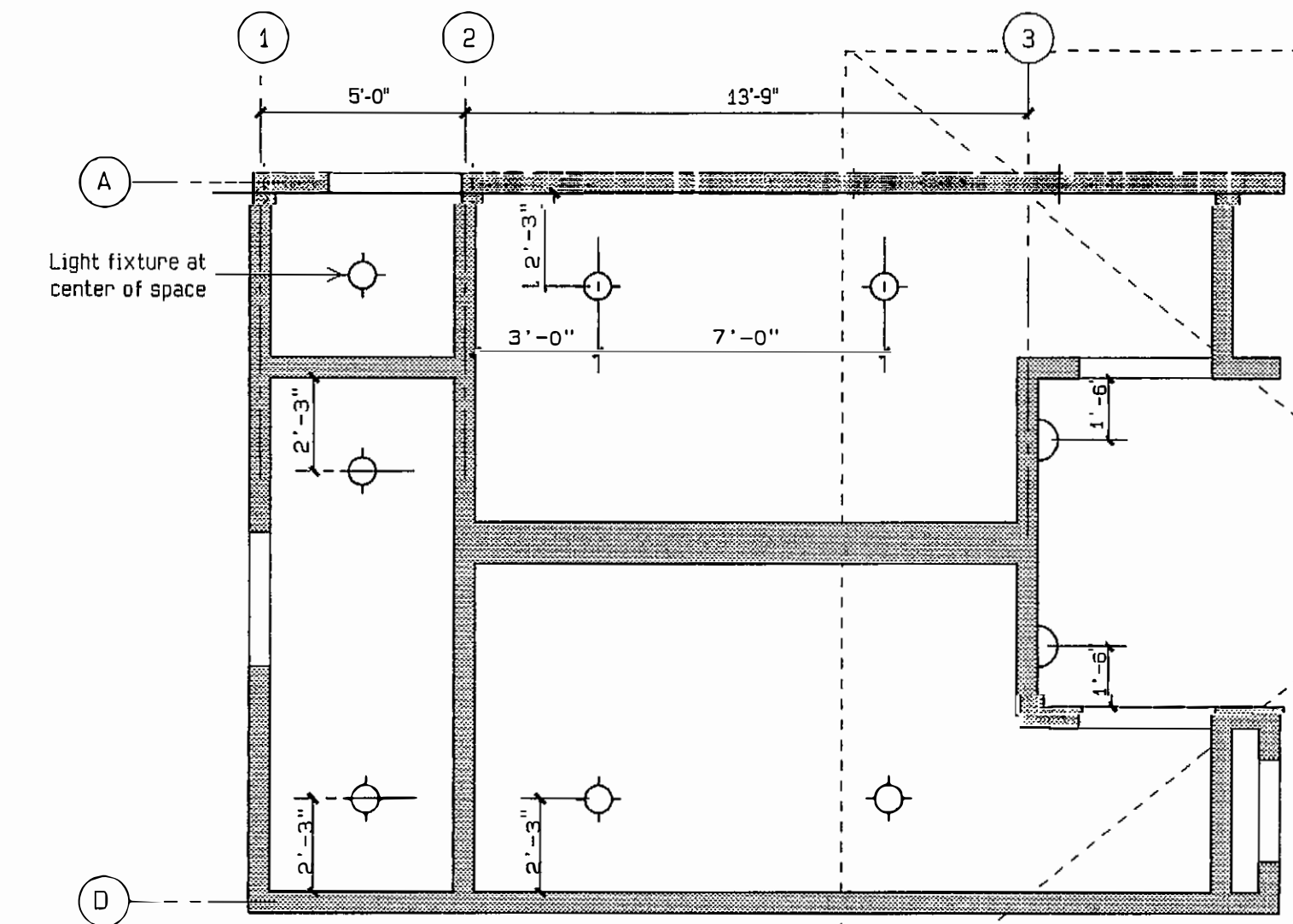
WATERPROOFING & ROOF NOTES / EMBARCADERO LAGO DOS BOCAS
Restrooms 5 & 6

1. All waterproofing work shall conform to Technical Specifications number 07540 - Emulsion Waterproofing (Roofing) and 07600 - Metal Roof Flashing and Trim.
2. The roofing system over concrete roof slabs shall be REPUBLIC Powdered Metals, Inc., Permaroof Emulsion Waterproofing System or as approved by the Architect.
3. The following installation procedure shall be followed, as indicated in the specifications (all mentioned products are REPUBLIC).
- a. Remove any gravel, soil, dust, garbage, etc. over the roofs using stiff brooms and pressured water (hydro-blasting) with a minimum force of 2,000 pounds per-square-inch (PSI). All surfaces to be sealed shall be left clean and dry.
- b. Create drain slopes with "Light-weight Concrete", with a minimum thickness of 1"; the minimum slope shall be 1/4" per linear foot.
- c. Fill any hole or void with asphaltic cement (Permaroof Cement) making sure the surface is left flat and smooth.
- d. Install metal roof flashings where necessary, including pressure relief vents minimum every twenty (20) feet center to center (each direction).
- e. Apply primer (Permprimer) using a one (1) gallon minimum per 100 square feet of roof.
- f. Allow the primer to dry (to footstep) then apply a coat of asphaltic emulsion (Permaroof Emulsion) with a proportion of three (3) gallons per hundred (100) square feet to an area of 4" to 6" (width) greater than the polyester cloth.
- g. Immediately place the polyester cloth over the area. Be sure to use a hard broom (trowel) or paint roll to "sow" the cloth and assure its adhesion and saturation (so it does not wrinkle - do not sweep the material).
- h. Repeat the process for the following cloth; there shall be an overlap of at least 4 inches between layers of cloth.
- i. Allow the polyester and the emulsion to dry (to footstep), then apply a thick coat of asphaltic emulsion (Permaroof Emulsion) at a proportion of five (5) gallons per hundred (100) square feet.
- j. When walking is possible over the already installed material, two (2) coats of reflective coating with aluminum base (Alumination 301) shall be applied at a proportion of three (3) gallons per hundred (100) square feet of roof.
- k. Allow the entire waterproofing system to dry completely before walking over it; also, it shall be protected while the remaining construction work lasts.
4. The sealing roof system shall be applied to every parapet until it meets the highest horizontal surface.
5. The General Contractor and his Roofing Sub-contractor are both responsible of verifying all dimensions related to roof waterproofing.
6. Galvanized steel roof deck shall be type "S" deck, corrugated structural metal sheathing as fabricated by BERRIDGE MANUFACTURING COMPANY, 1720 Maury Street, Houston, Texas 77026, phone numbers (800) 231-8127 / (713) 223-4971 or approved equal.
- The general specifications are:
- a. Panel thickness - 24 gauge
b. Panel steel conforms to ASTM A446-85 Grade C.
c. The exterior finish shall be full-strength KYNAR 500, Galvalume fluorocarbon coating. Top side film thickness shall be 0.70 to 0.90 mil over a 0.25 to 0.30 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil. The interior finish of this material shall be coated with a primer with a minimum dry film thickness of 0.25 mil.
d. Color shall be: Terra Cotta.
7. All pertinent details of ridges, flashings and channels for steel roofs will be submitted by the Contractor and/or manufacturer of the galvanized steel roof. These will be approved by the Architect before proceeding to their fabrication.
8. All steel roofing shall be connected to ground (grounded) to conform with Article 250 from the National Electric Code, 1993 edition.



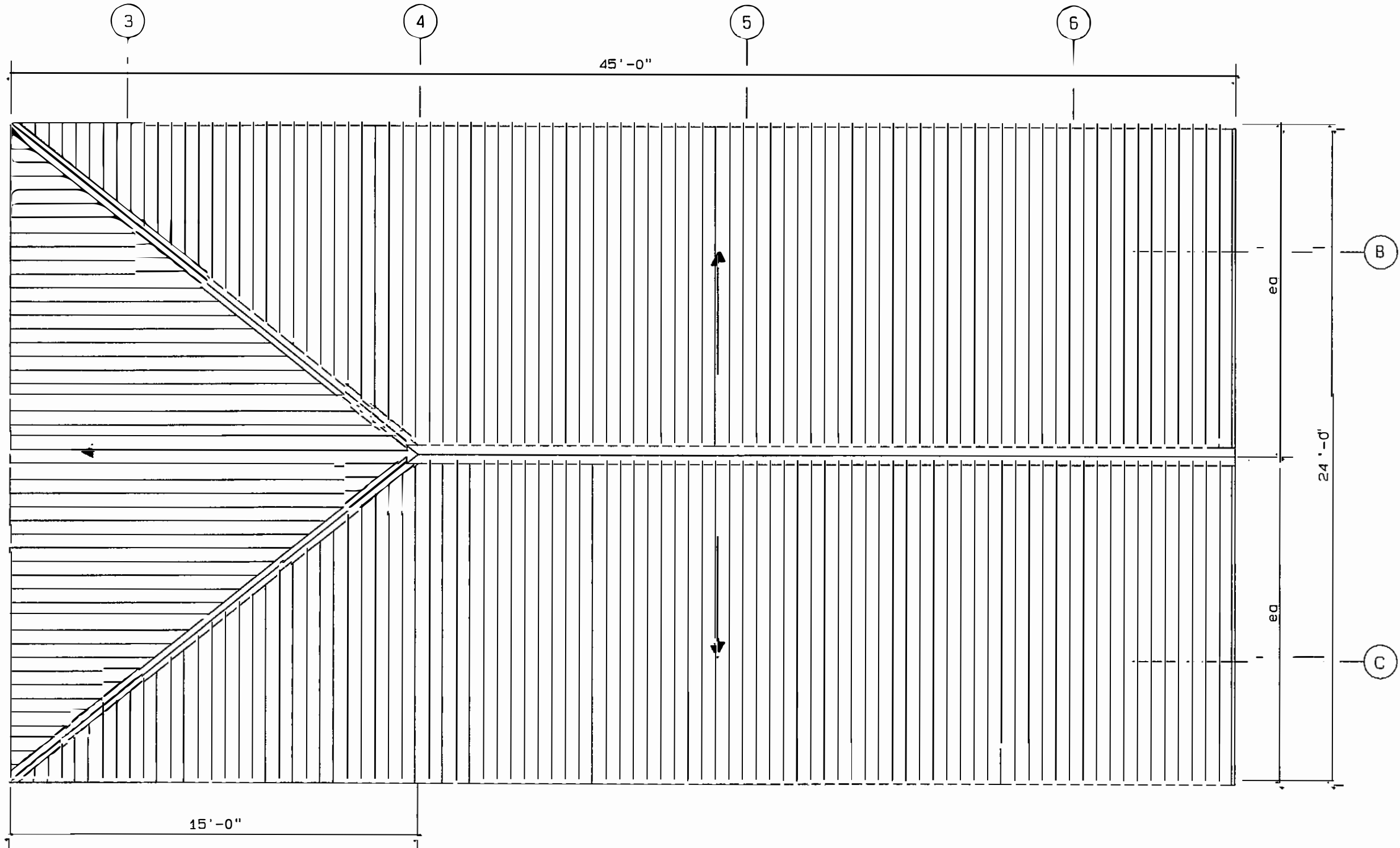
Roof Plan

Scale: 1/4" = 1'-0"



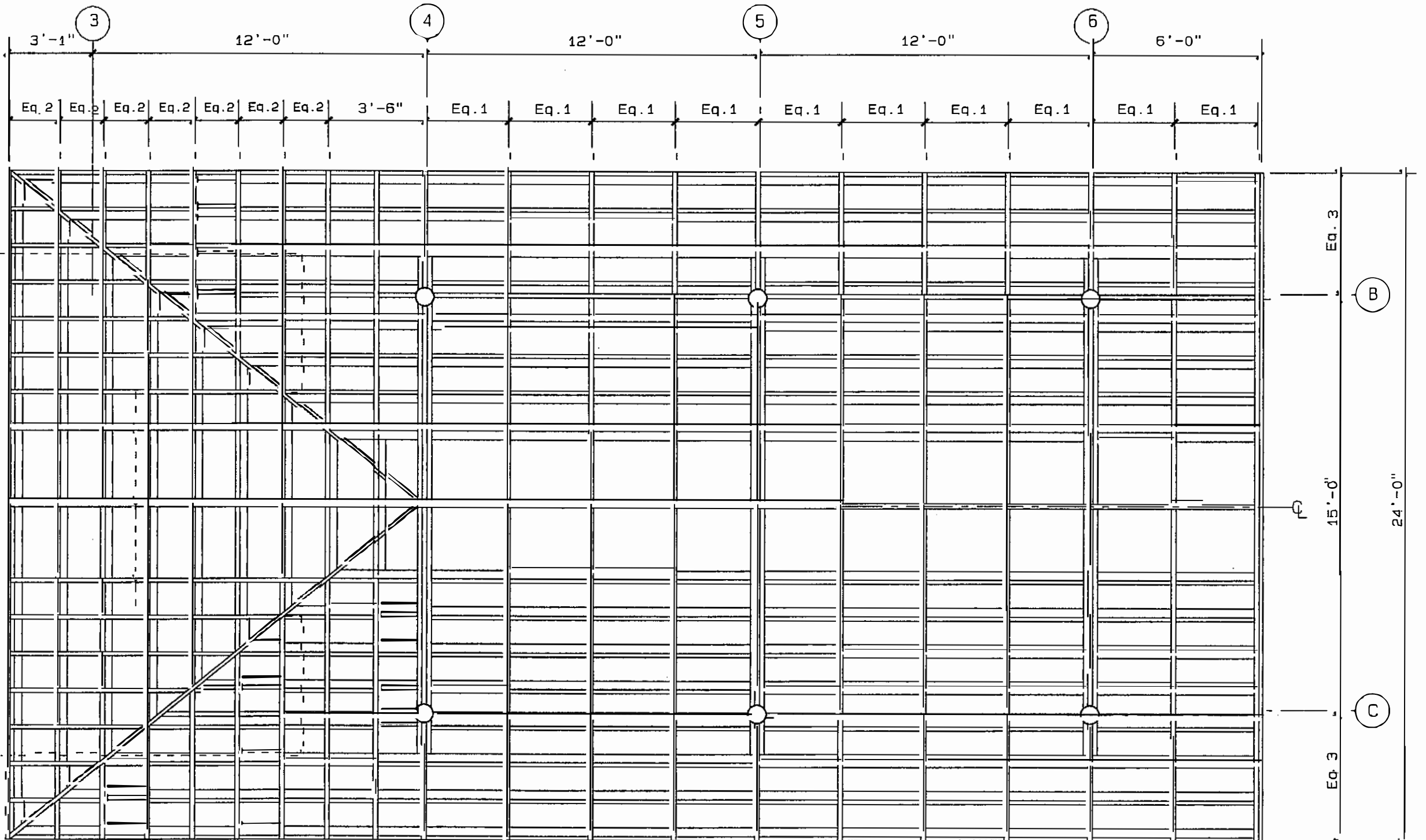
Reflected Ceiling Plan

Scale: 1/4" = 1'-0"



Roof Plan

Scale: 1/4" = 1'-0"



Reflected Ceiling Plan

Scale: 1/4" = 1'-0"

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE

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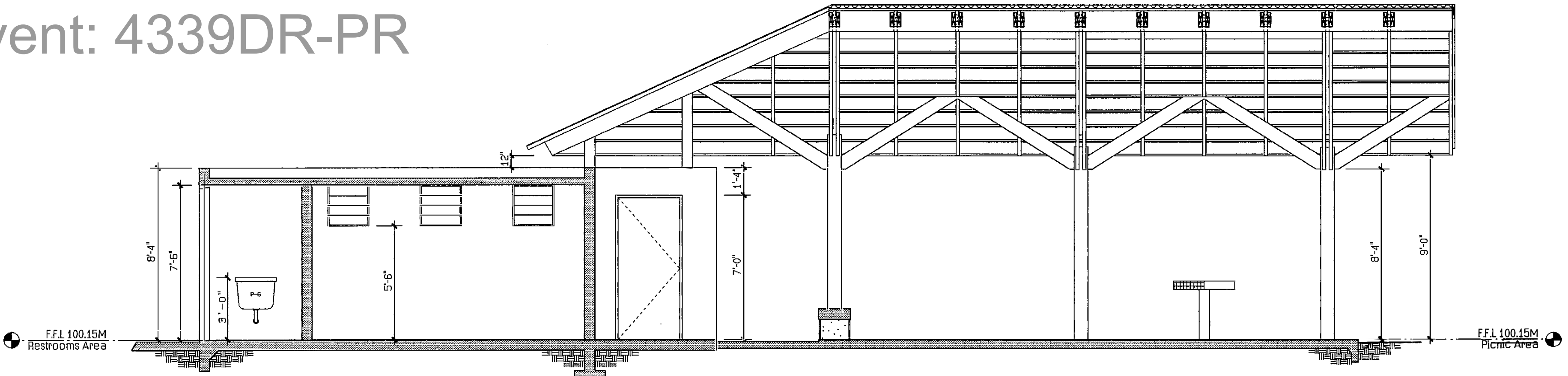
SCALE: 1/4" = 1'-0"

Roof & Reflected Ceiling Plan
Gazebo #3

AS
10

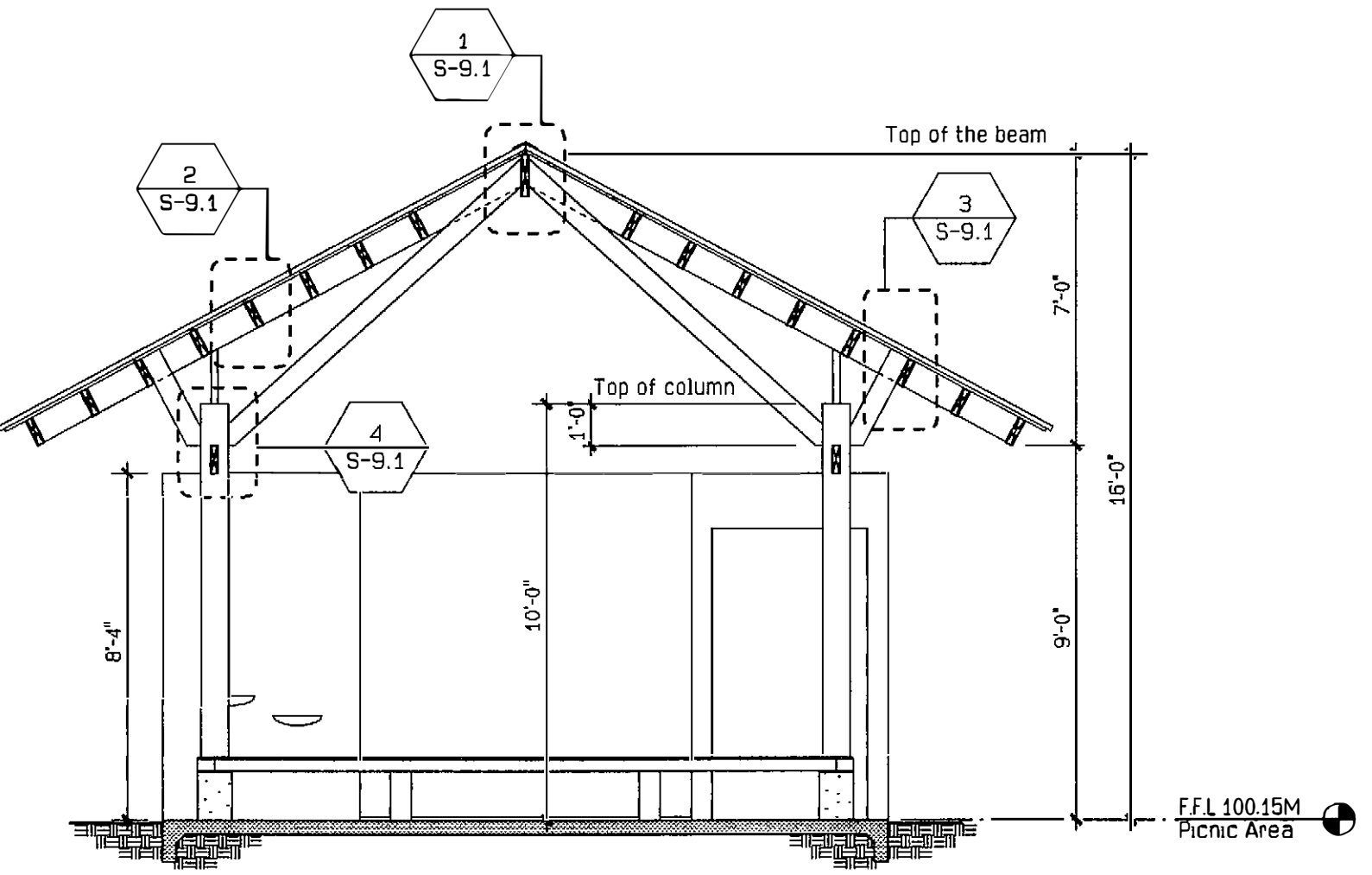
FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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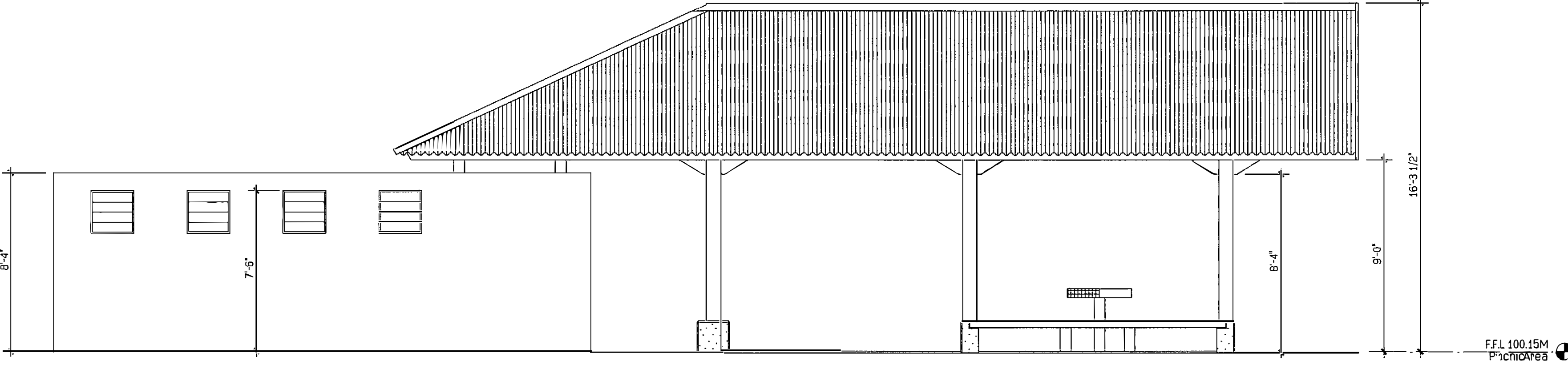
Section "A - A"

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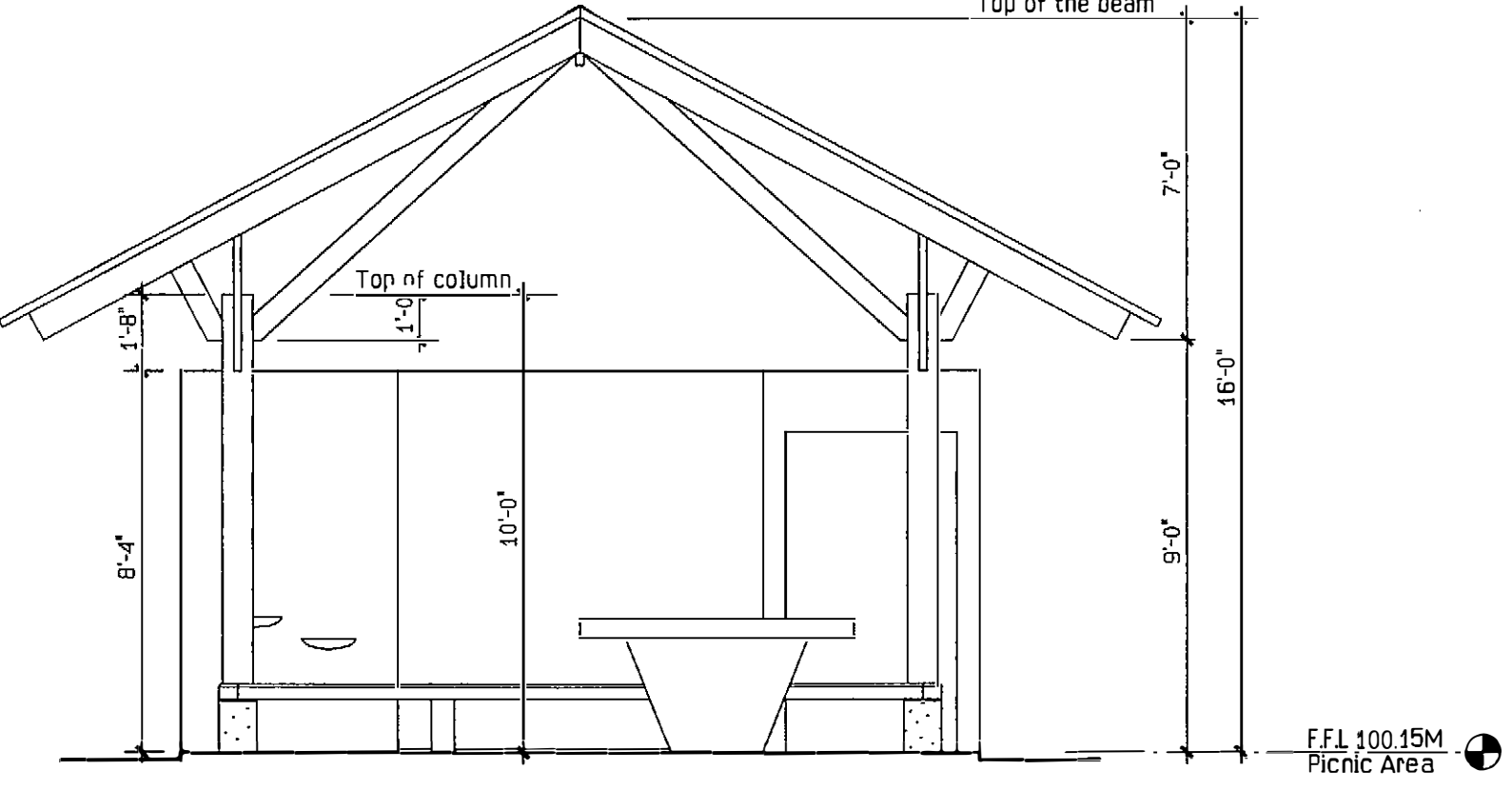
Section "B - B"

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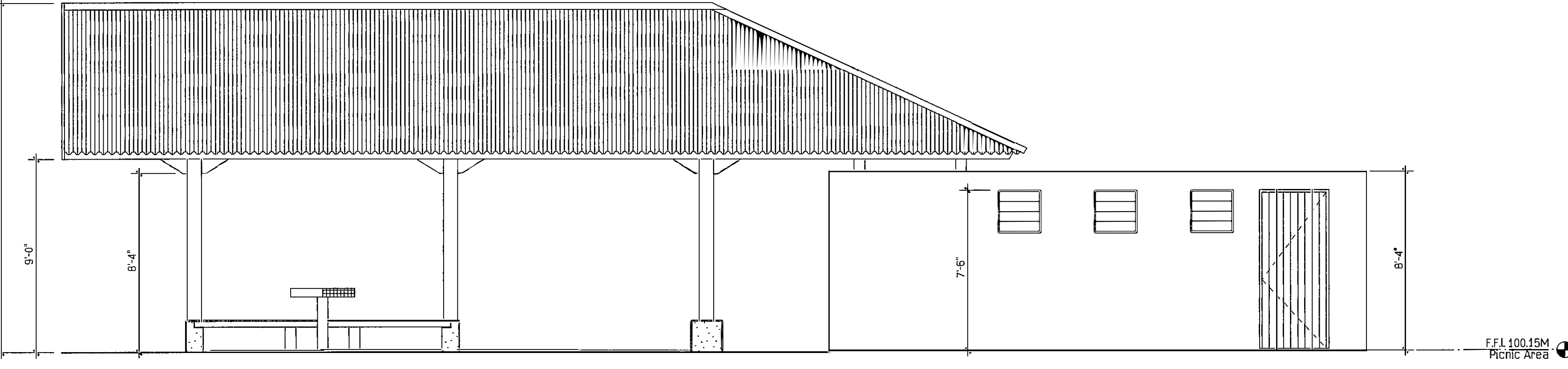
Elevation #1

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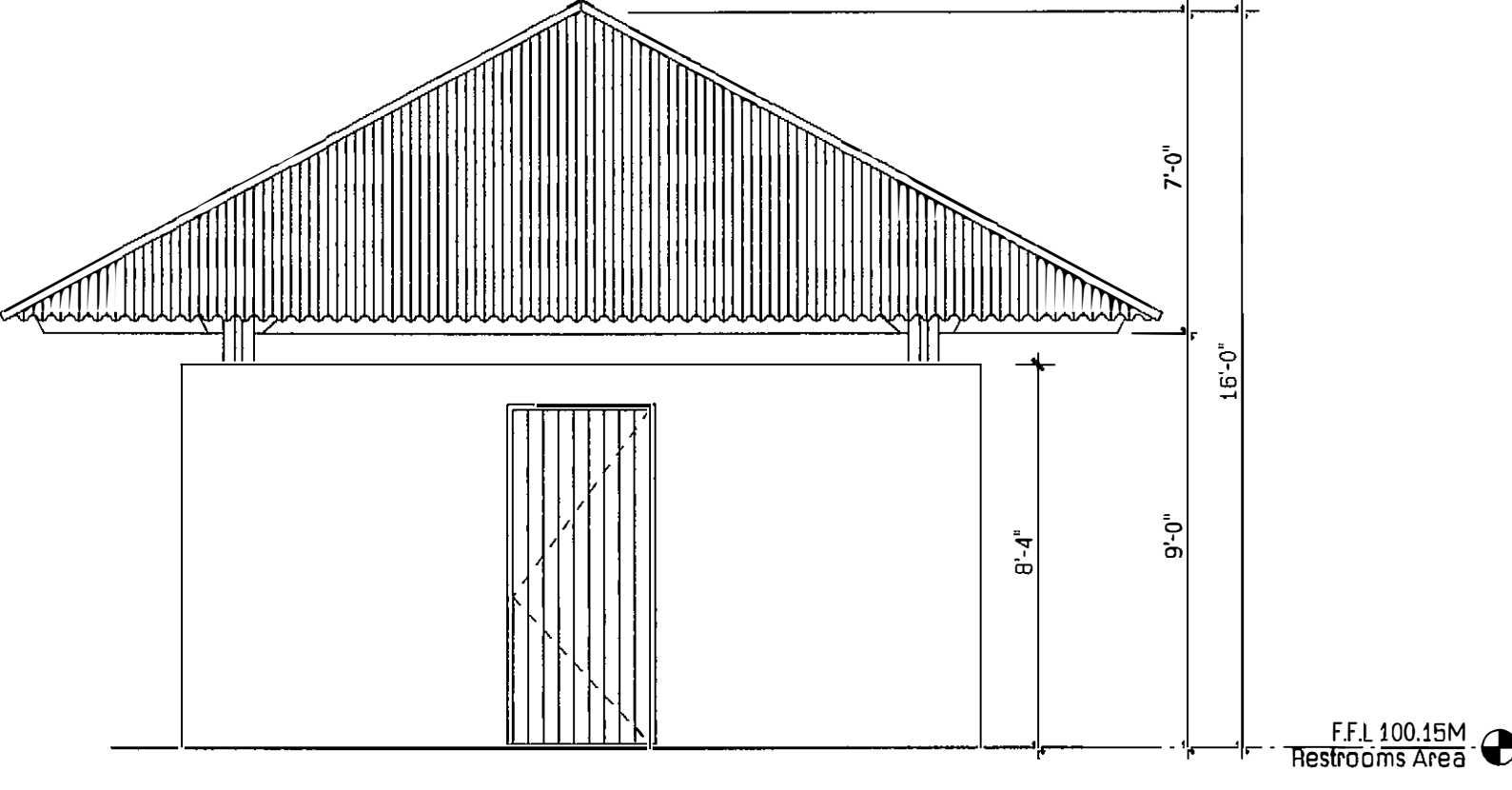
Elevation #2

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Elevation #3

Scale: 1/4" = 1'-0"

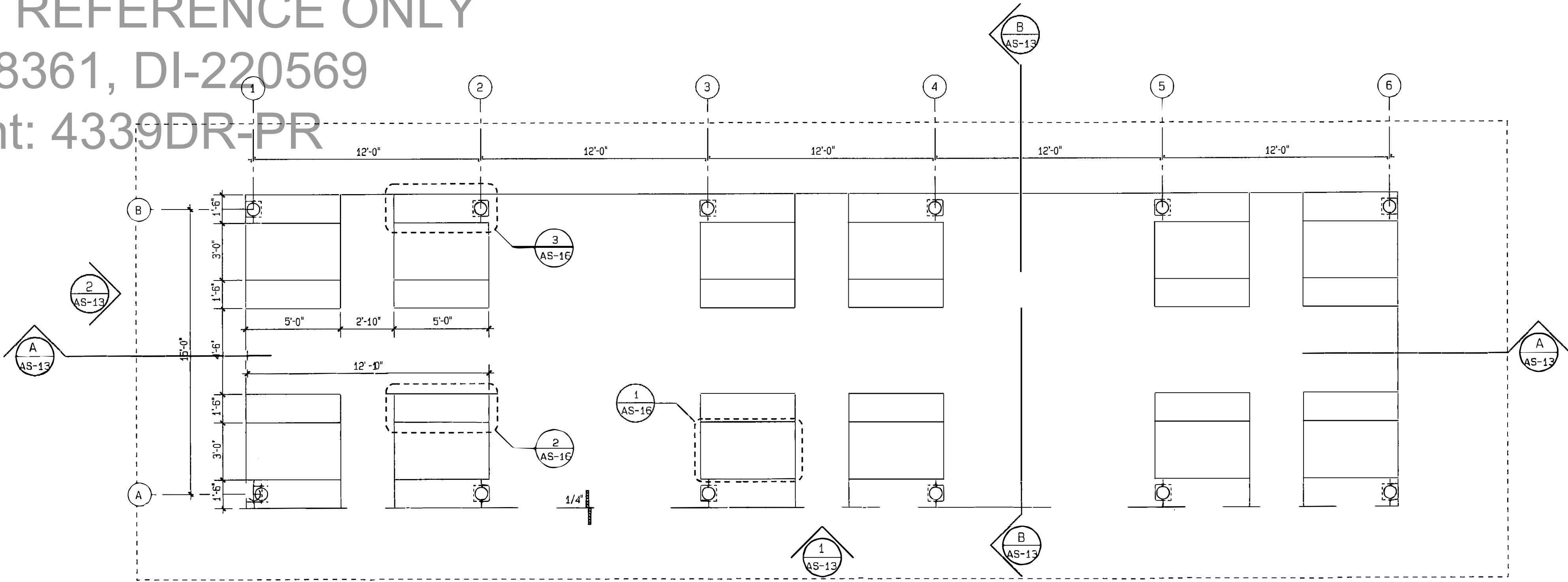


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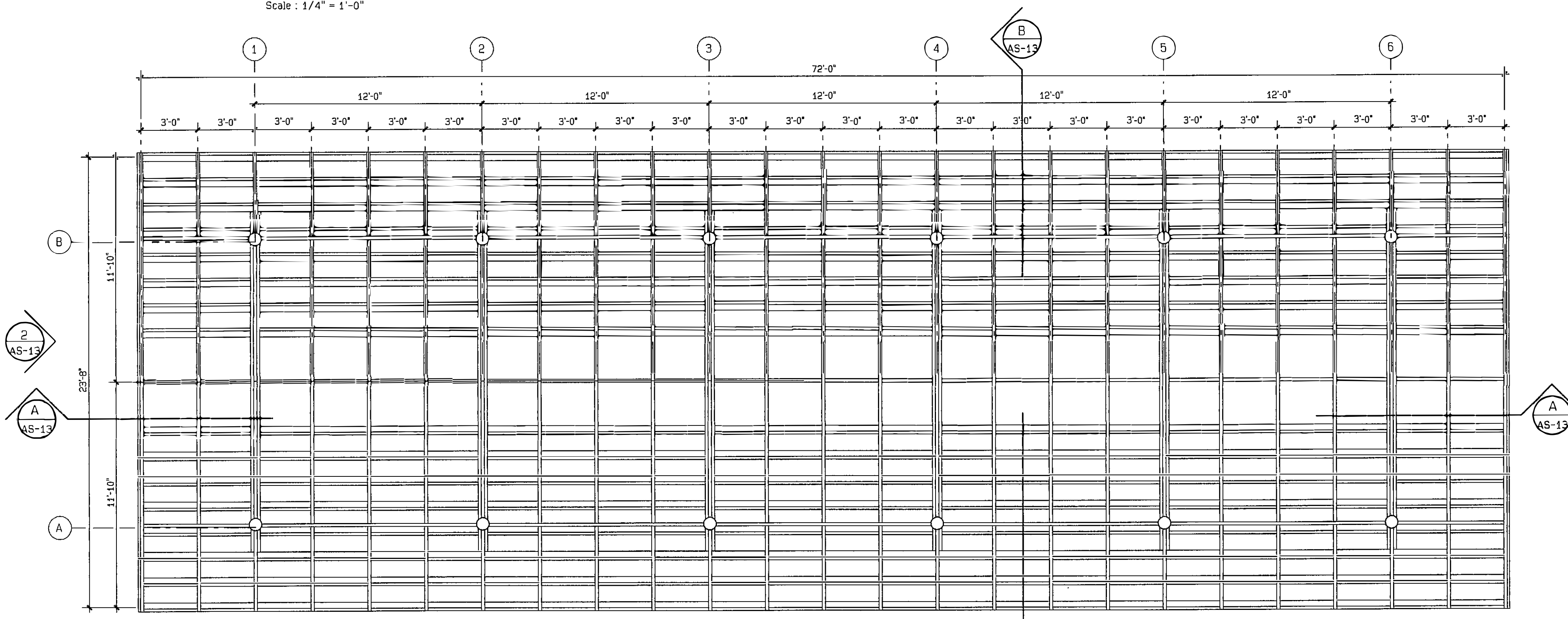
Scale: 1/4" = 1'-0"

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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Bench Plan "A"
Resting Area #1
Scale: 1/4" = 1'-0"



Reflected Ceiling Plan
Scale: 1/4" = 1'-0"

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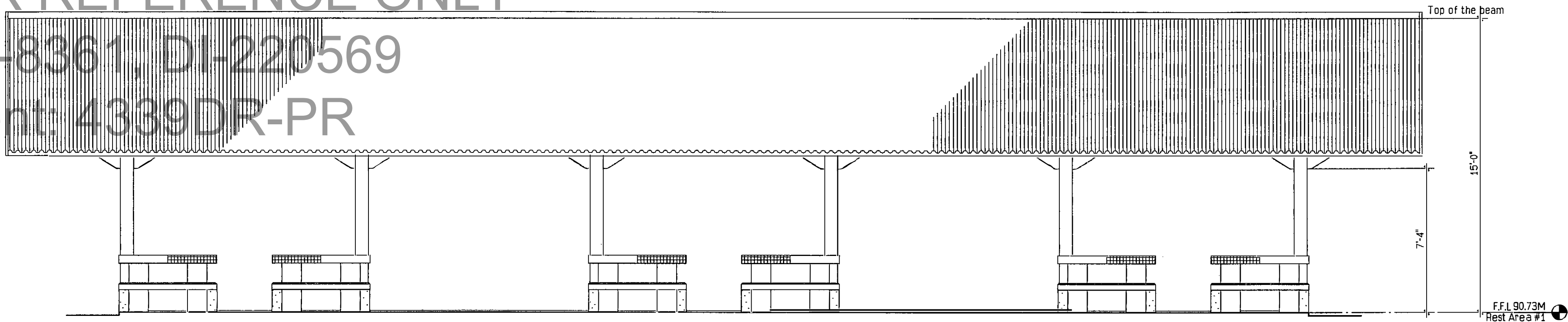
DATE	REVISIONS

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

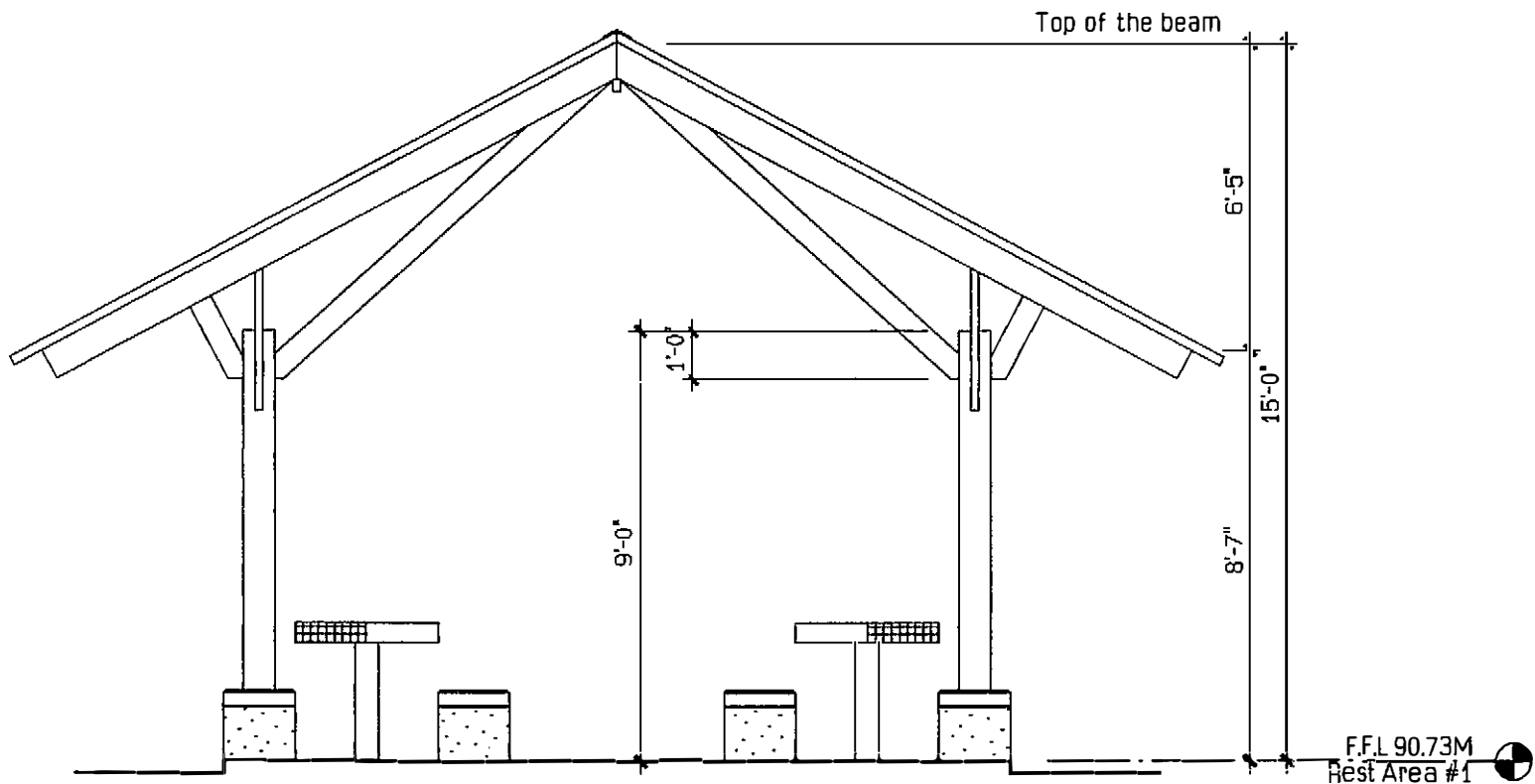
Floor & Reflected Ceiling Plan
Resting Area #1

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

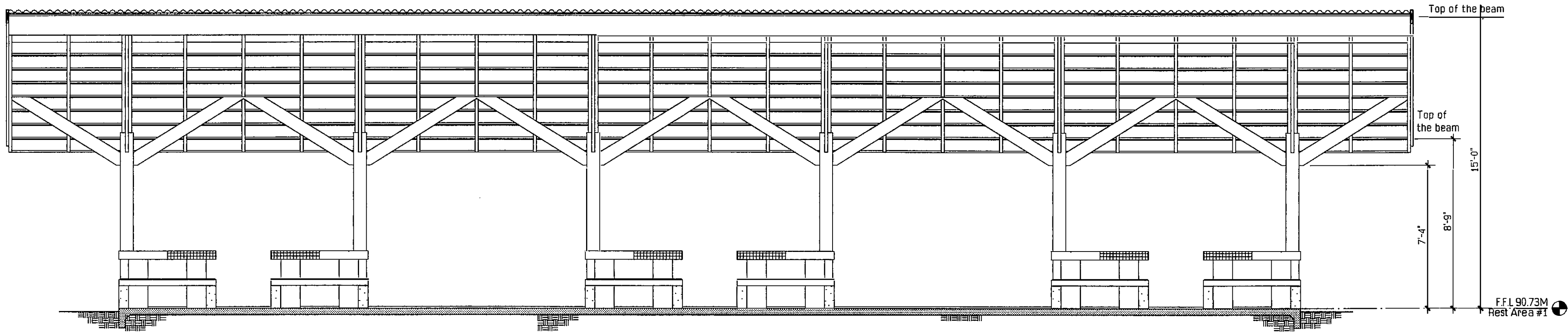
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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	49	181



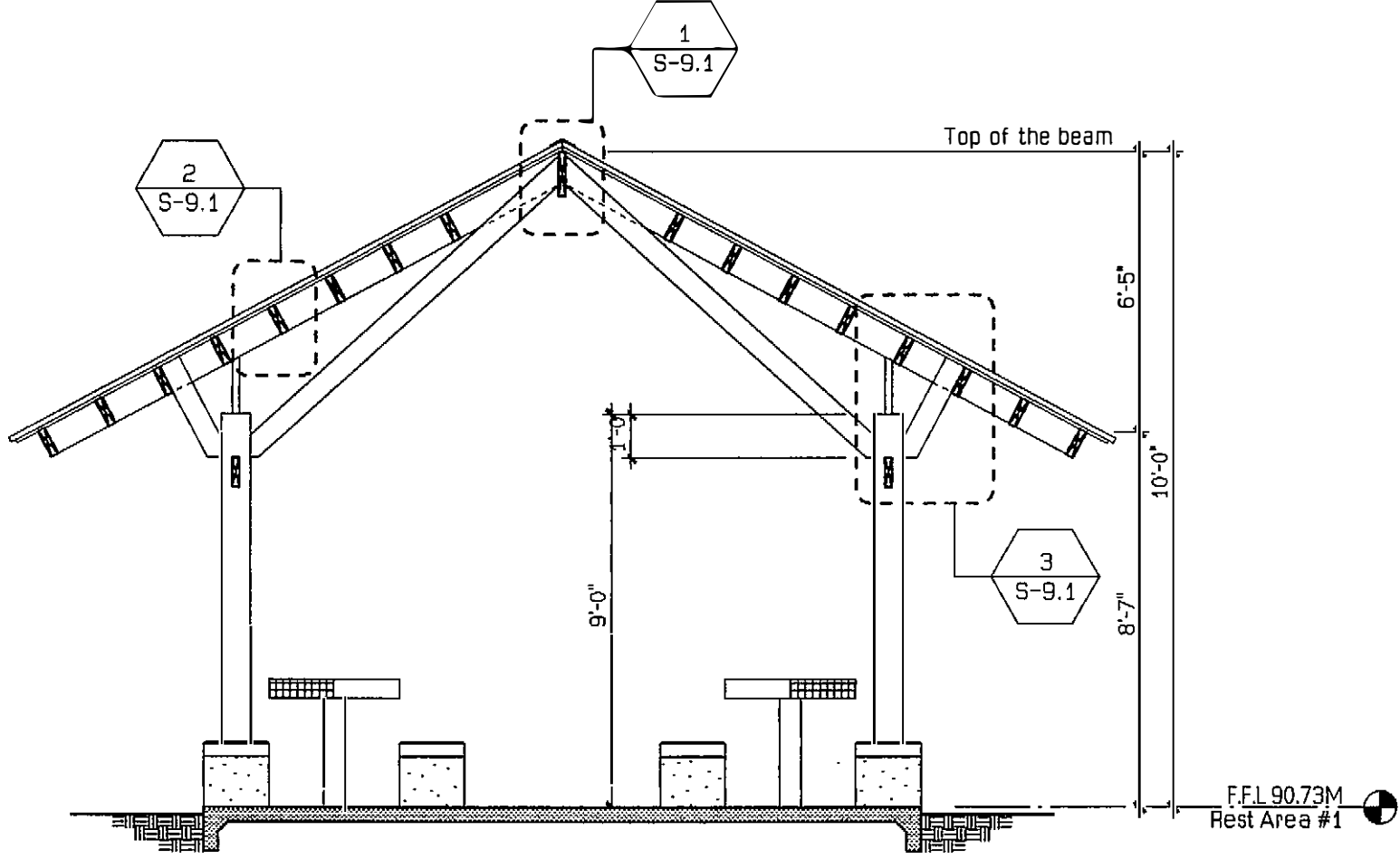
Elevation 1
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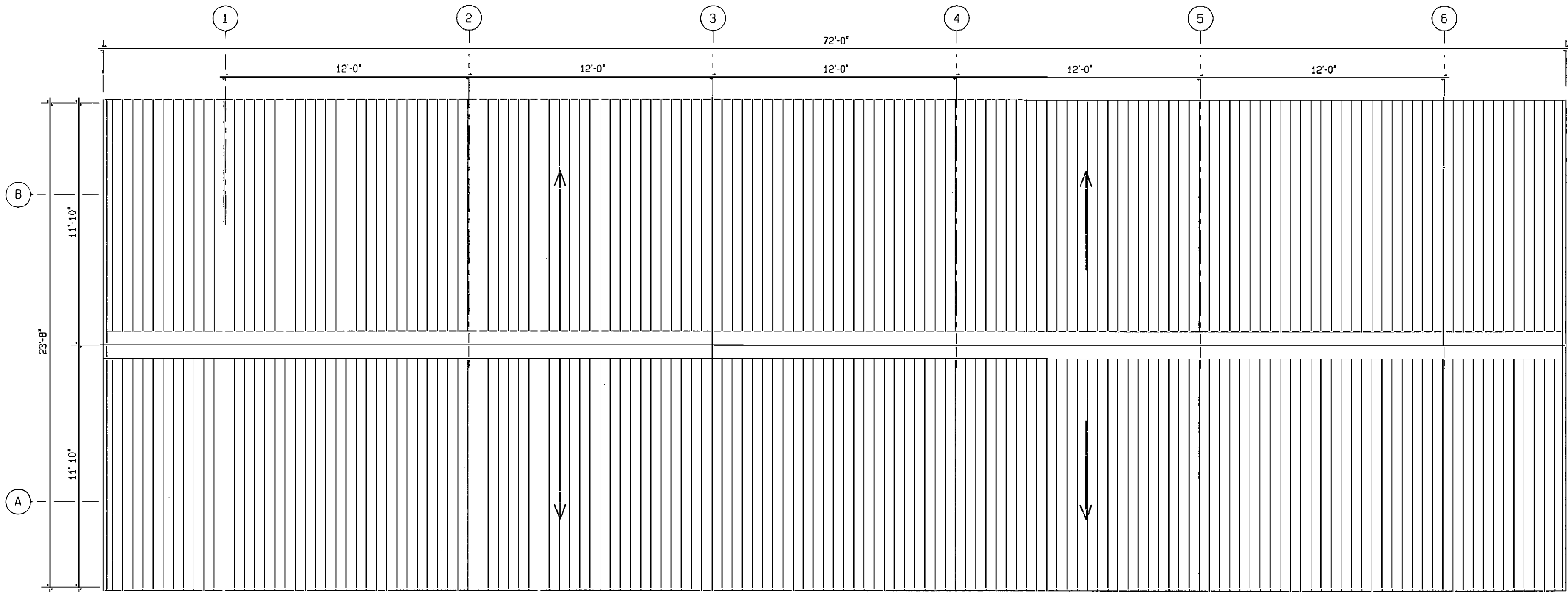
Elevation 2
Scale: 1/4" = 1'-0"



Section A - A
Scale: 1/4" = 1'-0"



Section B - B
Scale: 1/4" = 1'-0"



Roof Plan
Scale : 1/4" = 1'-0"

STEEL DECK (ROOF) NOTES / EMBARCADERO LAGO DOS BOCAS
Resting Area No. 1

- Galvanized steel roof deck shall be type "S" deck, corrugated structural metal sheathing as fabricated by BERRIDGE MANUFACTURING COMPANY, 1720 Maury Street, Houston, Texas 77026, phone numbers (800) 231-8127 / (713) 223-4971 or approved equal.

The general specifications are:
a. Panel thickness - 24 gauge
b. Panel steel conforms to ASTM A446-85 Grade C.
c. The exterior finish shall be full-strength KYNAR 500, Galvalume fluorocarbon coating. Top side film thickness shall be 0.70 to 0.90 mil over a 0.25 to 0.30 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil. The interior finish of this material shall be coated with a primer with a minimum dry film thickness of 0.25 mil.
d. Color shall be: Terra Cotta.
- All pertinent details of ridges, flashings and channels for steel roofs will be submitted by the Contractor and/or manufacturer of the galvanized steel roof. These will be approved by the Architect before proceeding to their fabrication.
- All steel roofing shall be connected to ground (grounded) to conform with Article 250 from the National Electric Code, 1993 edition.

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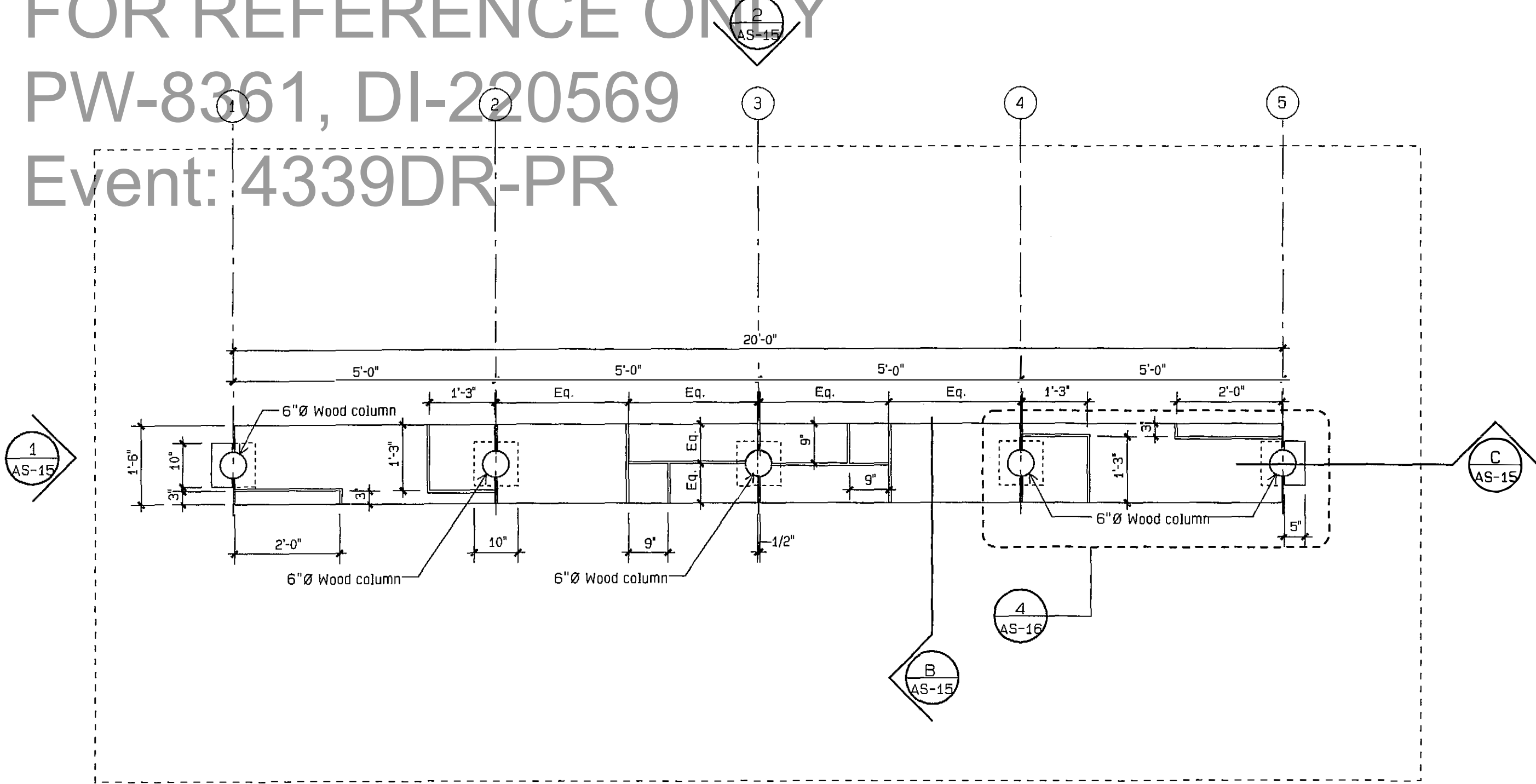
SCALE: 1/4":1'-0"

Plans, Sections, Details
Resting Area #1

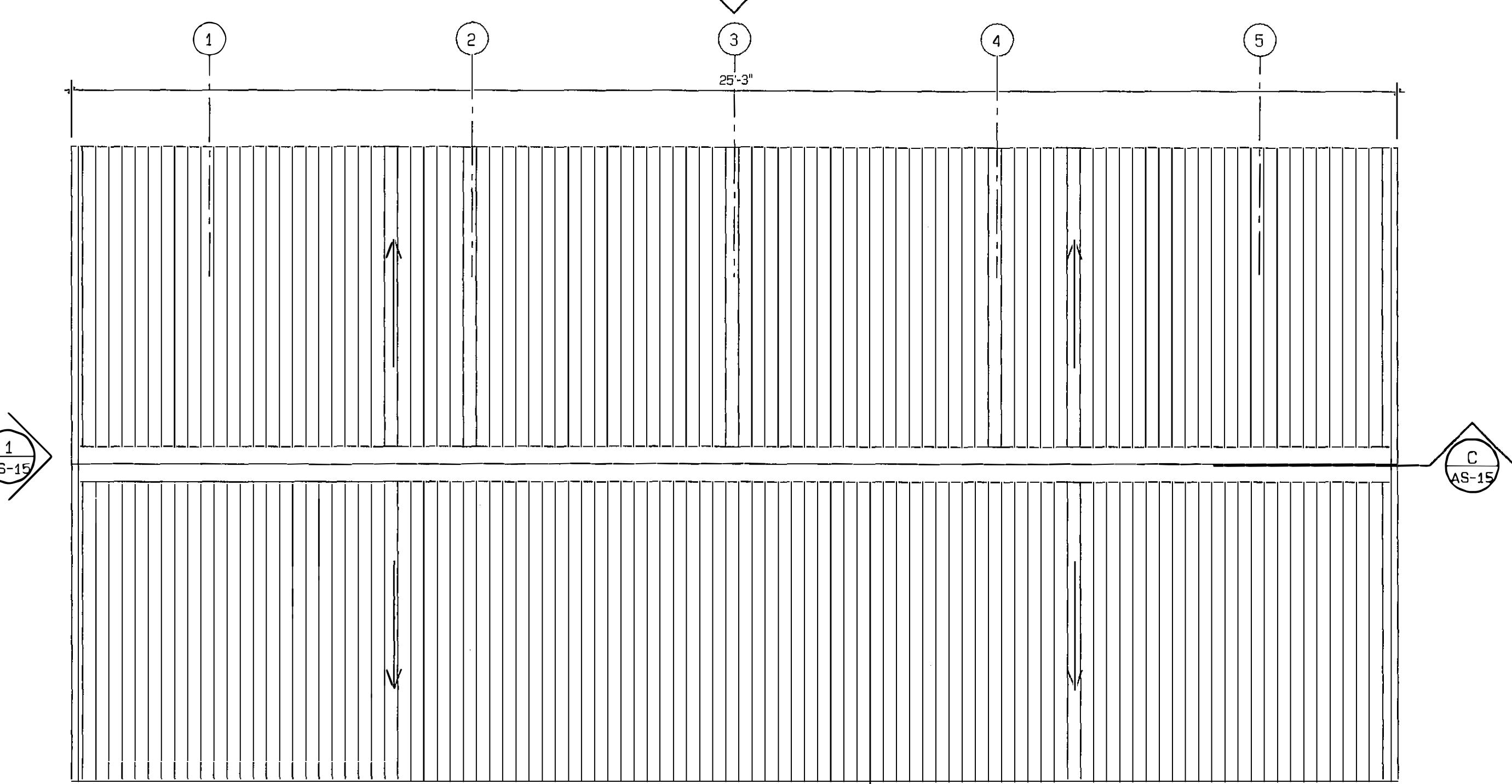
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13

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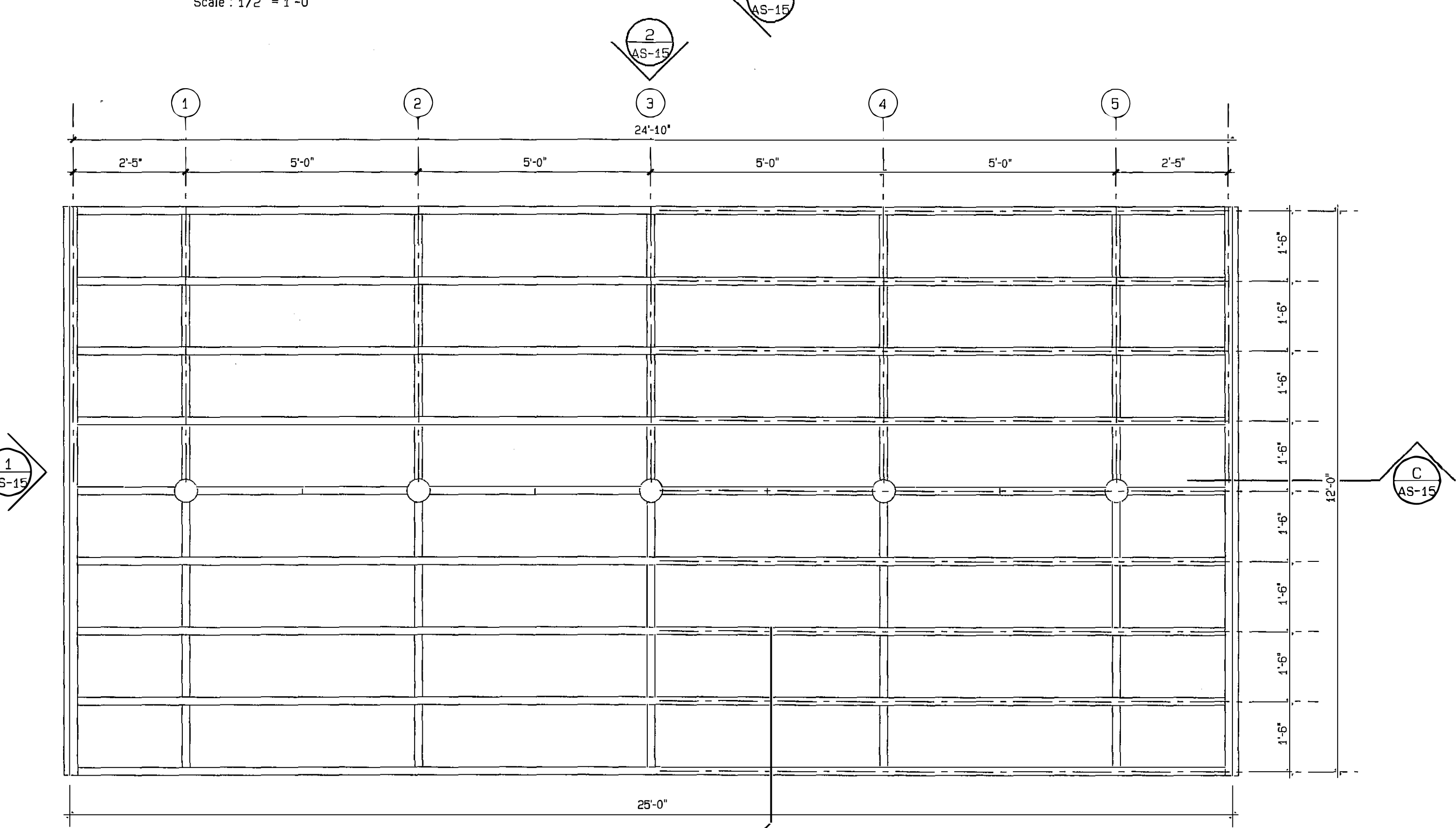
FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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Bench Plan
Resting Area #2
Scale : 1/2" = 1'-0"



Roof Plan
Scale : 1/2" = 1'-0"



Reflected Ceiling Plan
Scale : 1/2" = 1'-0"

- STEEL DECK (ROOF) NOTES / EMBARCADERO LAGO DOS BOCAS**
Resting Area No. 2
- Galvanized steel roof deck shall be type "S" deck, corrugated structural metal sheathing as fabricated by BERRIDGE MANUFACTURING COMPANY, 1720 Maury Street, Houston, Texas 77026, phone numbers (800) 231-8127 / (713) 223-4971 or approved equal.

The general specifications are:
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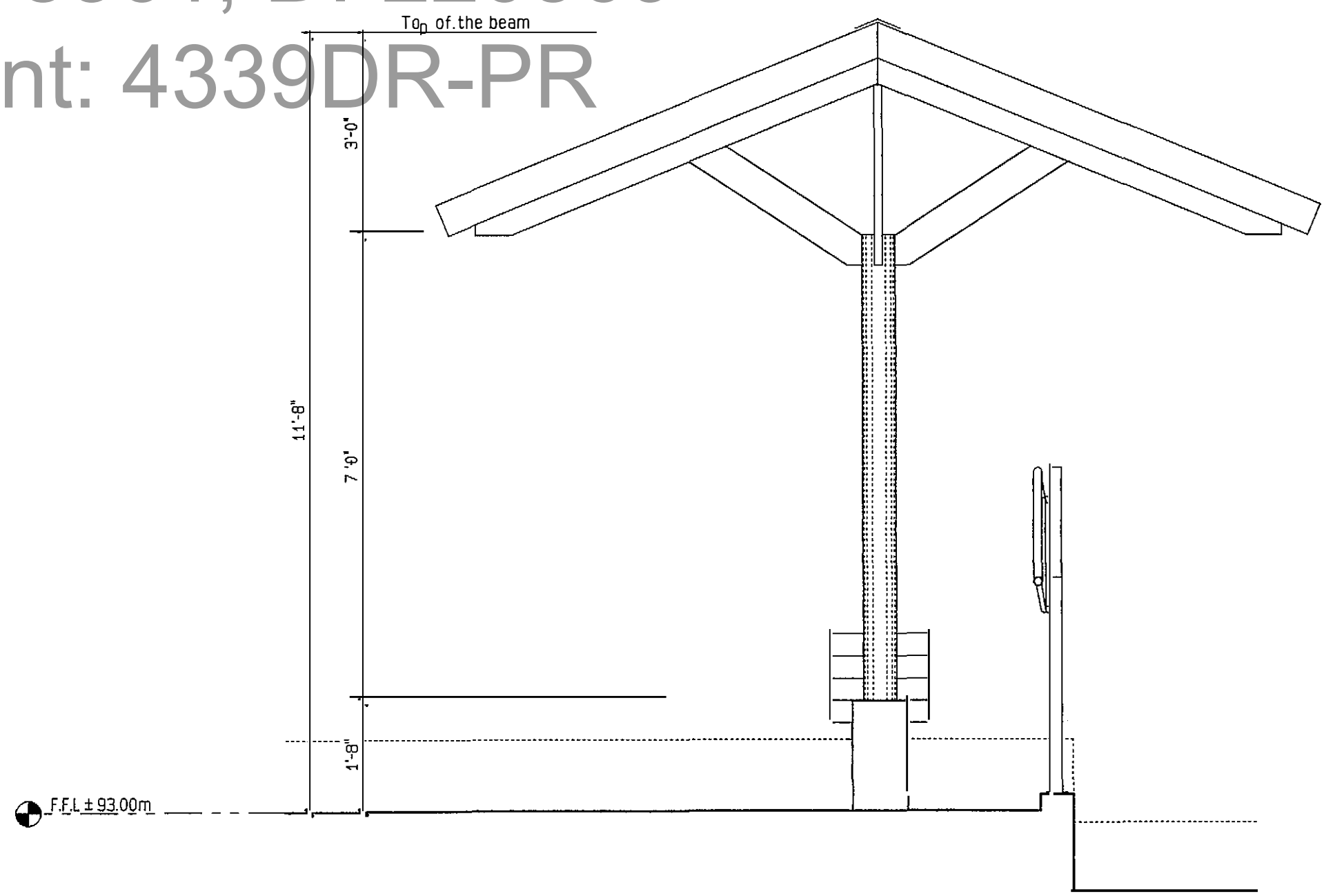
SCALE: 1/2": 1'-0"

Plans
Resting Area #2

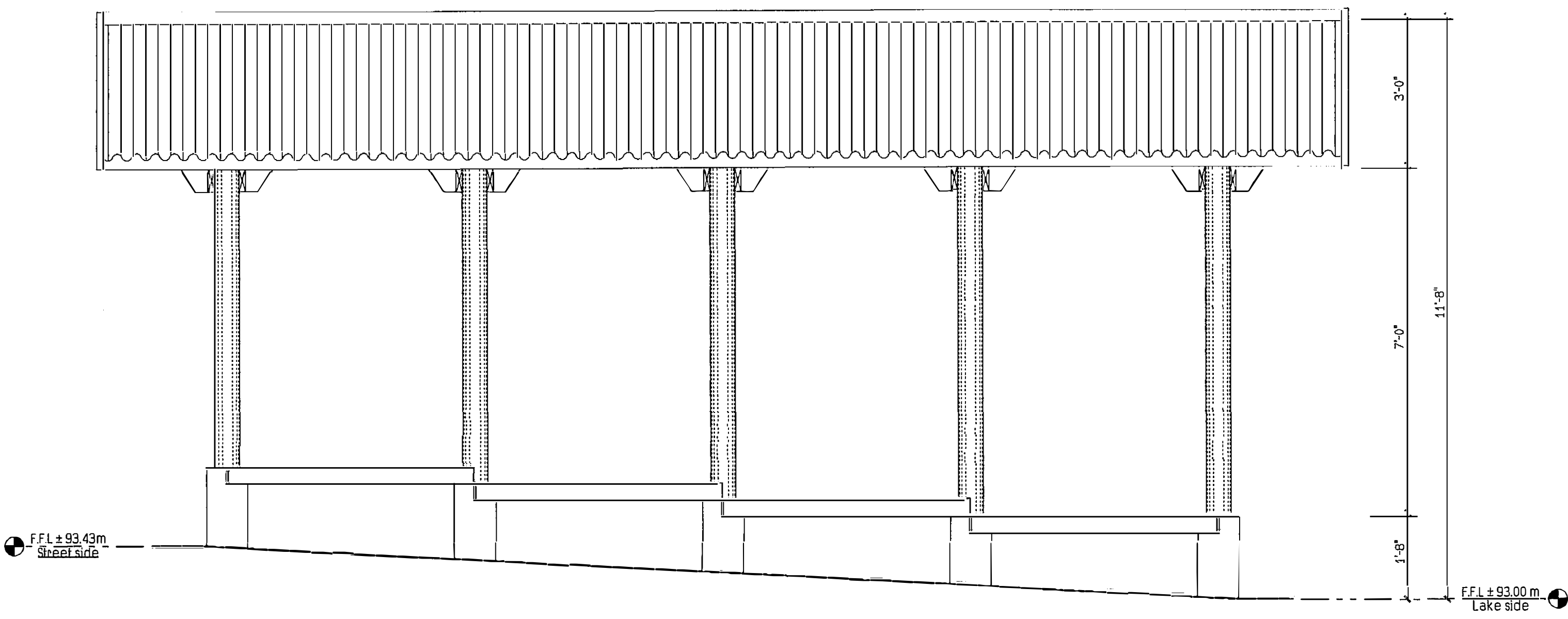
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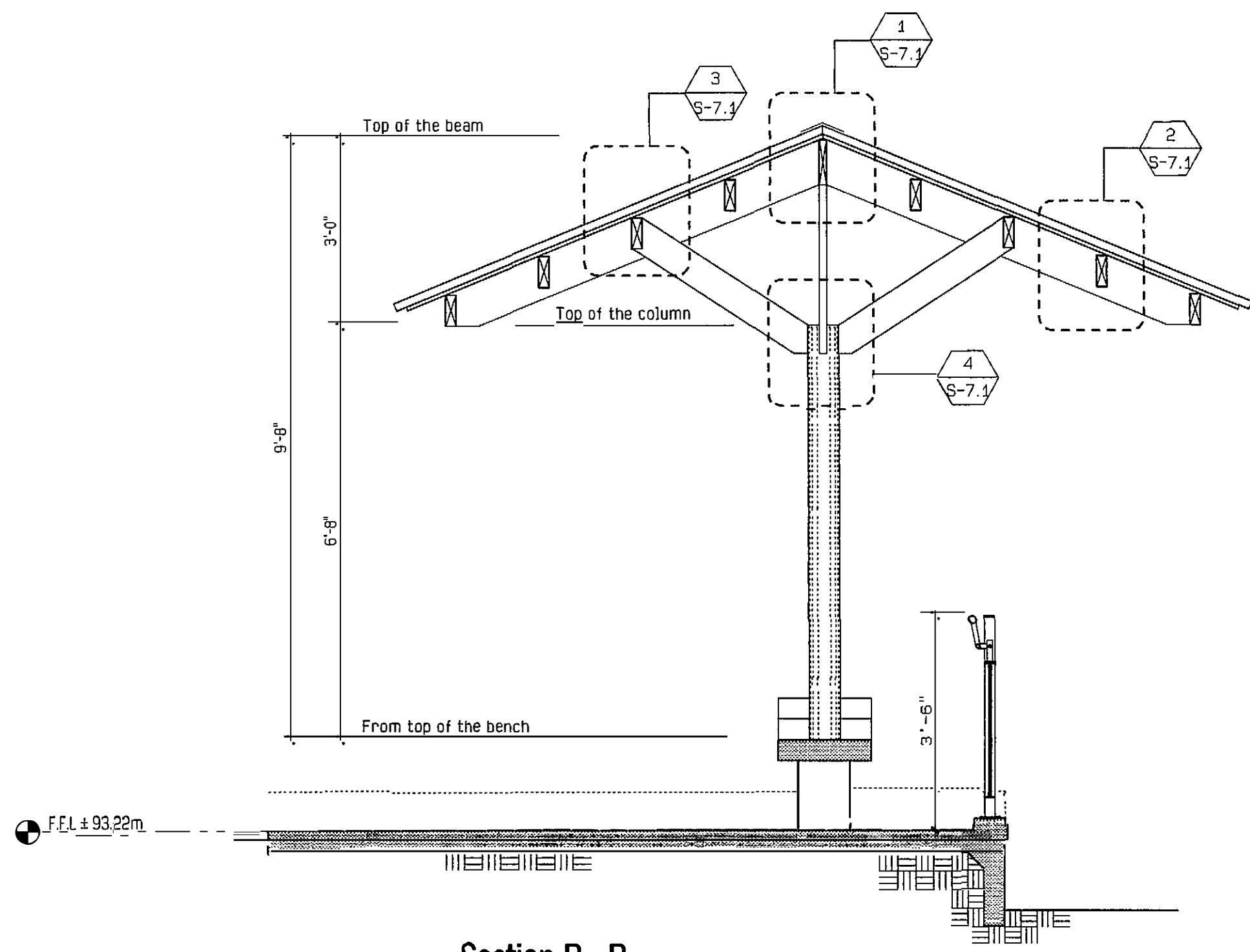
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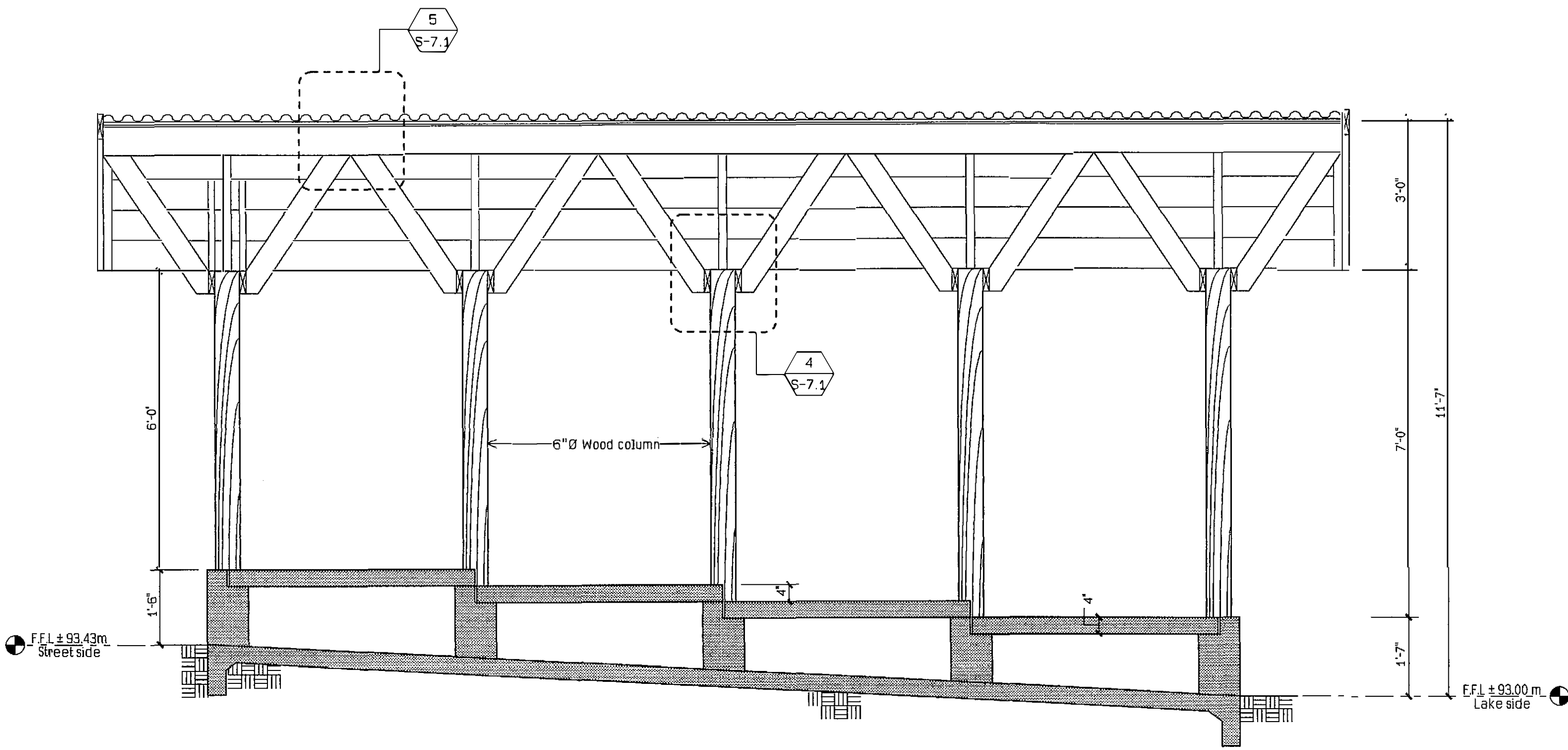
Elevation 1
Scale : 1/2" = 1'-0"



Elevation 2
Scale : 1/2" = 1'-0"



Section B - B
Scale : 1/2" = 1'-0"



Section C - C
Scale : 1/2" = 1'-0"

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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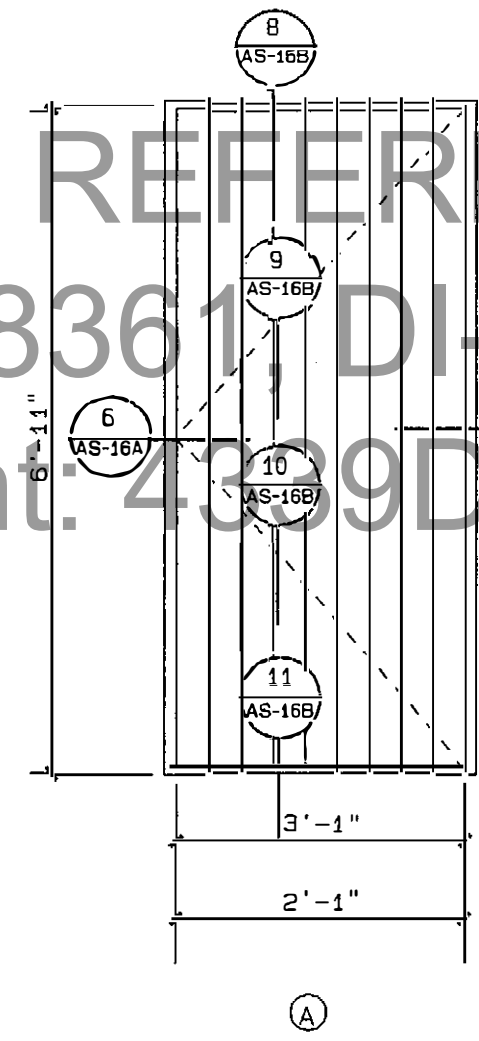
SCALE: 1/2" = 1'-0"

Elevations, Sections
Resting Area #2

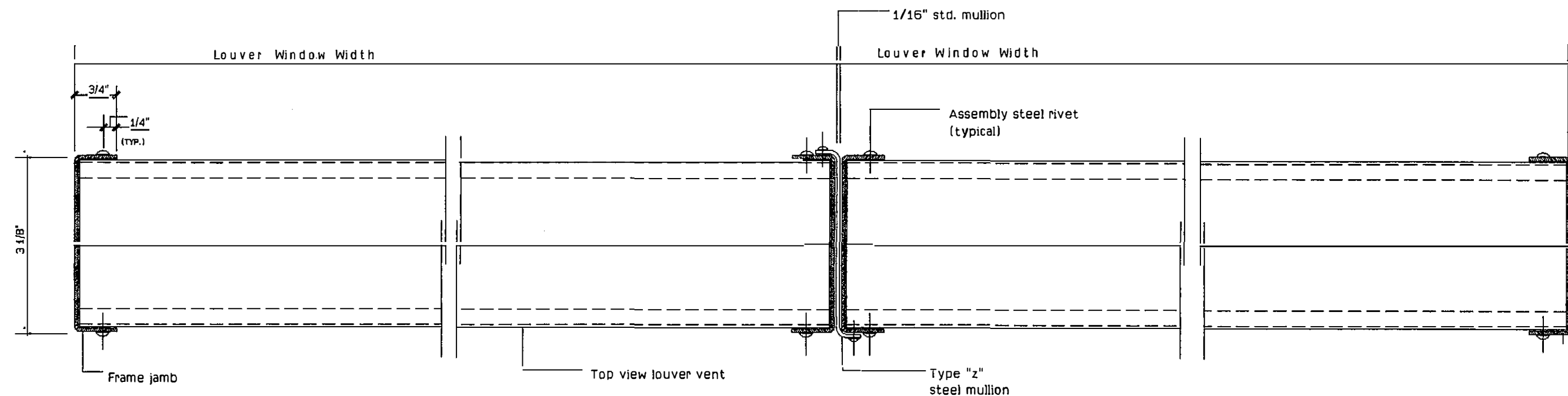
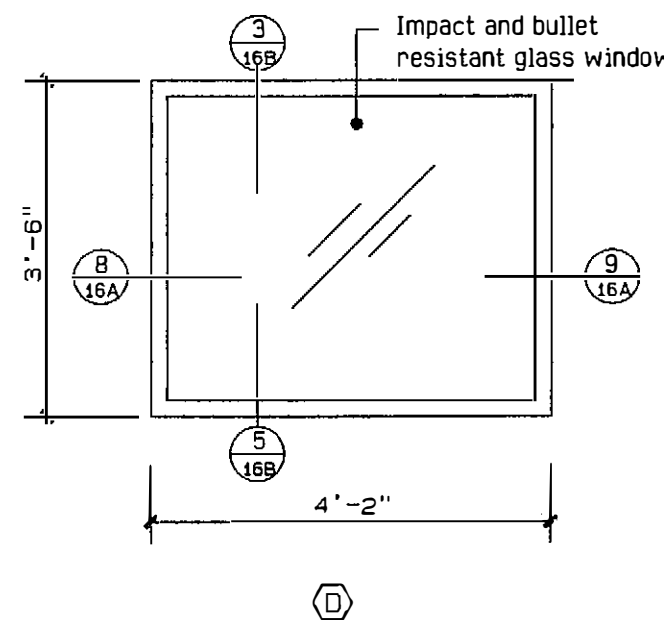
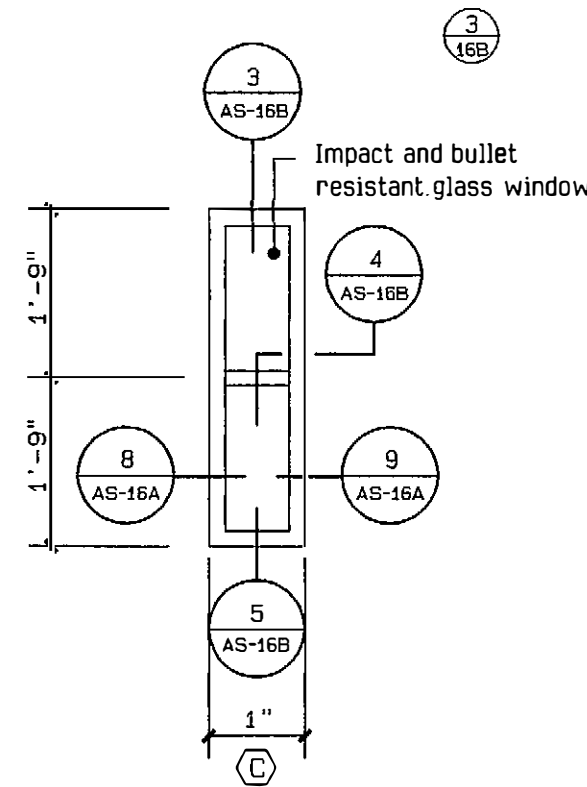
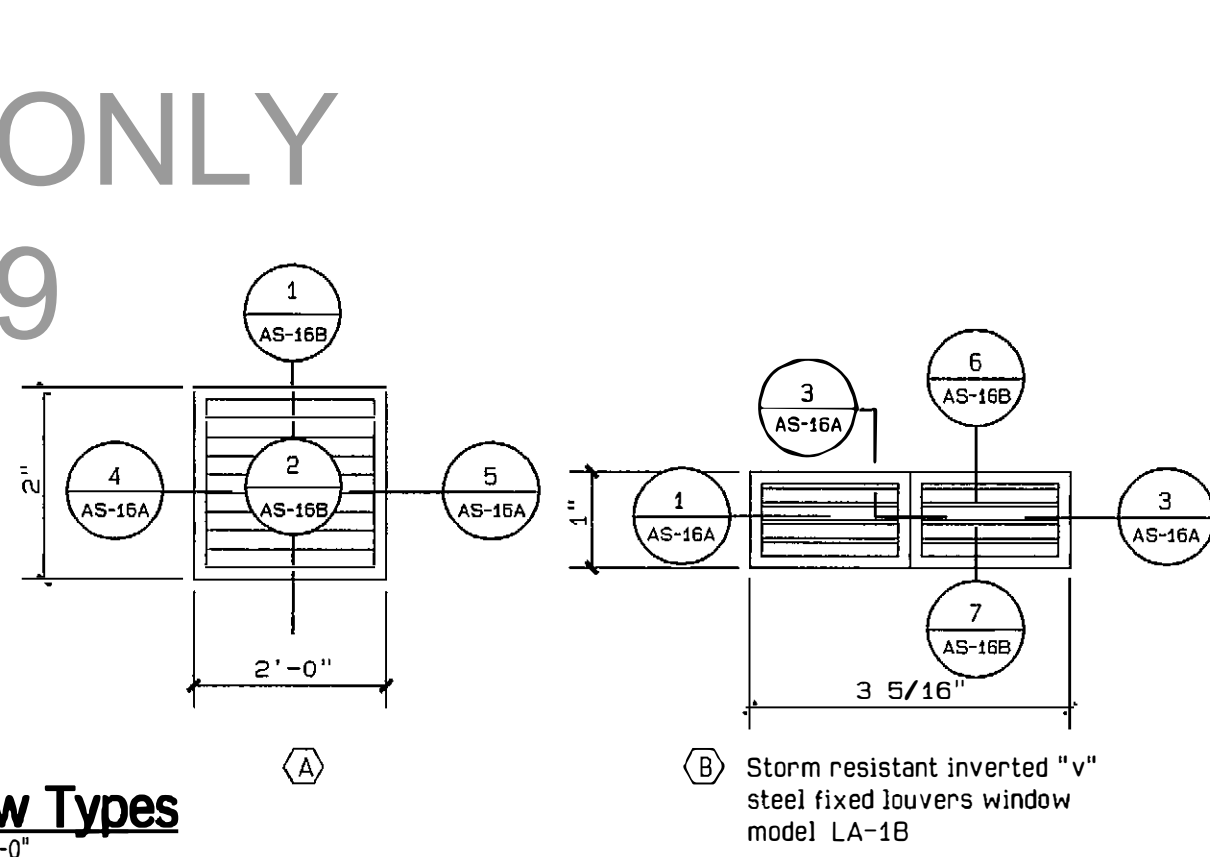
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Door Type
Scale: 1/2"=1'-0"



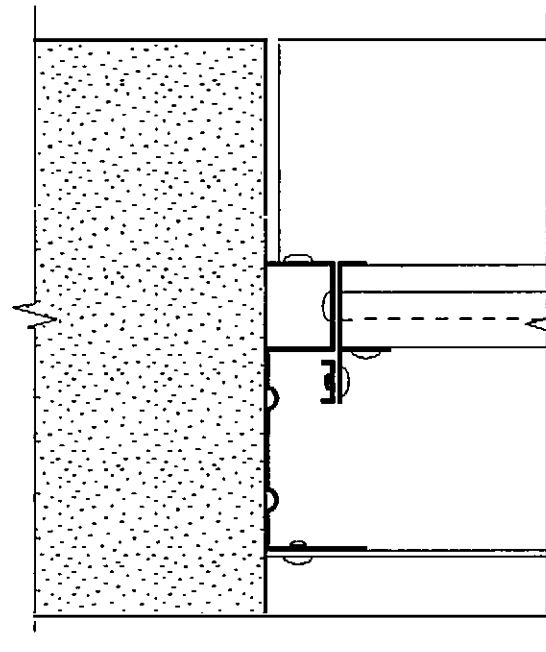
Window Types
Scale: 1/2"=1'-0"



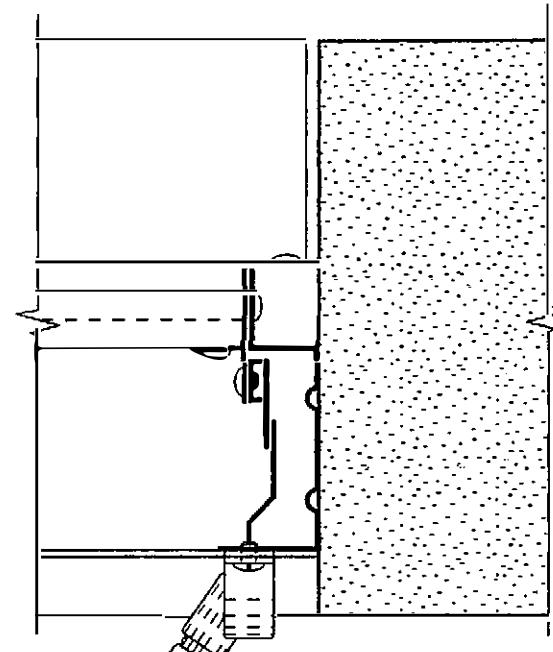
Detail 1
Scale: 6"=1'-0"

Detail 2
Scale: 6"=1'-0"

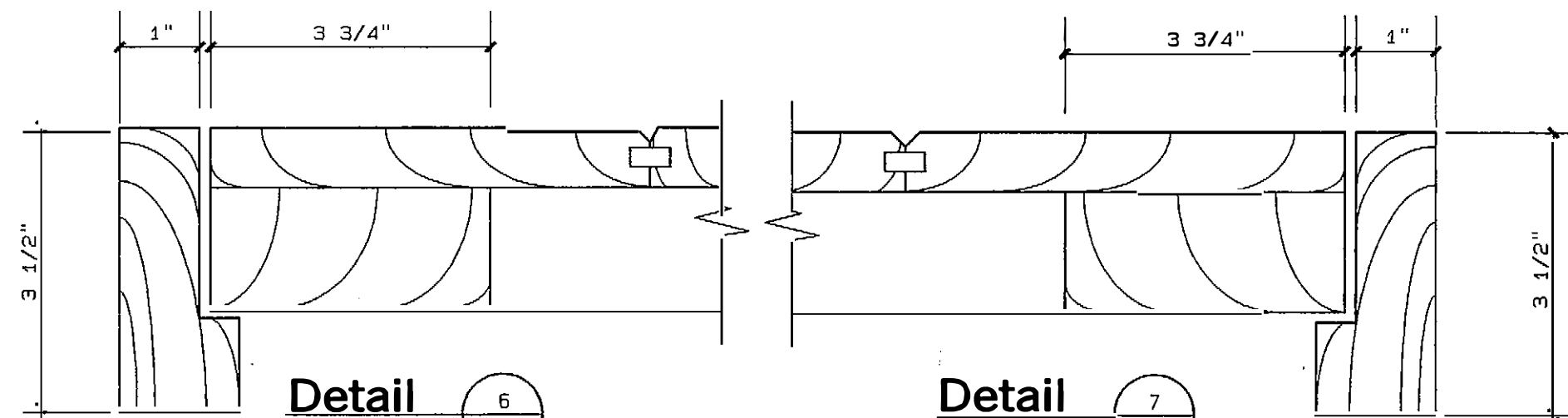
Detail 3
Scale: 6"=1'-0"



Detail 4
Scale: 6"=1'-0"

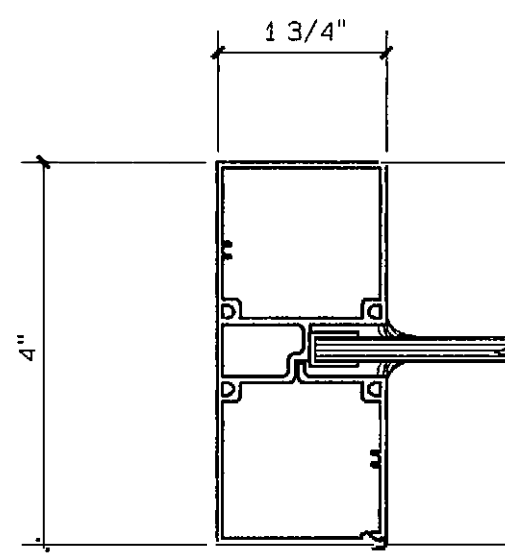


Detail 5
Scale: 6"=1'-0"

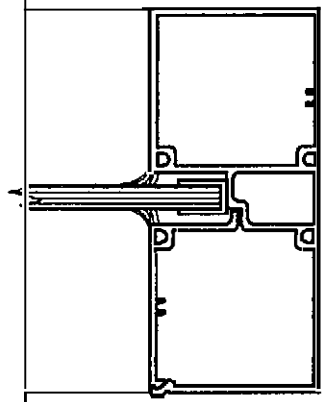


Detail 6
Scale: 6"=1'-0"

Detail 7
Scale: 6"=1'-0"



Detail 8
Scale: 6"=1'-0"



Detail 9
Scale: 6"=1'-0"

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DB Door Schedule		Guard Booth #1						Notes
No.	Type	*Dimension	Material	Fin.	Saddle	Tran.	Frame	
401	A	2'-1" x 7'-0"	Treated Pine	Paint			Td. Pine	Tablón (batten) single leaf
402	A	3'-1" x 7'-0"	Treated Pine	Paint			Td. Pine	Tablón (batten) single leaf
403	A	3'-1" x 7'-0"	Treated Pine	Paint			Td. Pine	Tablón (batten) single leaf
DB Window Schedule		Guard Booth #1						Notes
No.	Type	*Dimension	Material	Fin.	Saddle	Tran.	Frame	
401	C	1'-0" x 3'-6"	Alum./Glass	B.E.P.			Alum.	Impact & bullet resistant glass window
402	D	4'-2" x 3'-6"	Alum./Glass	B.E.P.			Alum.	Impact & bullet resistant glass window
403	C	1'-0" x 3'-6"	Alum./Glass	B.E.P.			Alum.	Impact & bullet resistant glass window
404	A	2'-0" x 2'-0"	Treated Pine	Paint				Alum. /wood Jalousies
405	B	3'-4" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
406	B	3'-4" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
407	B	3'-4" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
408	B	3'-4" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
409	B	3'-4" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
410	B	3'-4" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
411	B	3'-4" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
412	B	3'-4" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
413	B	3'-4" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
414	B	3'-4" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
* Contractor shall verify all dimensions on site.								B.E.P. - Baked Enamel Paint

DB Door Schedule		Guard Booth #2						Notes
No.	Type	*Dimension	Material	Fin.	Saddle	Tran.	Frame	
501	A	2'-1" x 7'-0"	Treated Pine	Paint			Td. Pine	Tablón (batten) single leaf
502	A	3'-1" x 7'-0"	Treated Pine	Paint			Td. Pine	Tablón (batten) single leaf
503	A	3'-1" x 7'-0"	Treated Pine	Paint			Td. Pine	Tablón (batten) single leaf
DB Window Schedule		Guard Booth #2						Notes
No.	Type	*Dimension	Material	Fin.	Saddle	Tran.	Frame	
501	C	1'-0" x 3'-6"	Alum./Glass	B.E.P.			Alum.	Impact & bullet resistant glass window
502	D	4'-2" x 3'-6"	Alum./Glass	B.E.P.			Alum.	Impact & bullet resistant glass window
503	C	1'-0" x 3'-6"	Alum./Glass	B.E.P.			Alum.	Impact & bullet resistant glass window
504	A	2'-0" x 2'-0"	Treated Pine	Paint				Alum. /wood Jalousies
505	B	3'-4" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
506	B	1'-8" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
507	B	1'-8" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
508	B	1'-8" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
509	B	1'-8" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
510	B	1'-8" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
511	B	1'-8" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
512	B	1'-8" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
513	B	1'-8" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
514	B	1'-8" x 1'-0"	G.Steel	B.E.P.				G.Steel / Inverted "V" type Fixed Louvers
* Contractor shall verify all dimensions on site.								B.E.P. - Baked Enamel Paint

DB Door Schedule		Gazebo #3						Notes
No.	Type	*Dimension	Material	Fin.	Saddle	Tran.	Frame	
601	A	3'-1" x 7'-0"	Treated Pine	Paint			Td. Pine	Tablón (batten) single leaf
602	A	3'-1" x 7'-0"	Treated Pine	Paint			Td. Pine	Tablón (batten) single leaf
603	A	3'-1" x 7'-0"	Treated Pine	Paint			Td. Pine	Tablón (batten) single leaf
604	A	3'-1" x 7'-0"	Treated Pine	Paint			Td. Pine	Tablón (batten) single leaf
DB Window Schedule		Gazebo #3						Notes
No.	Type	*Dimension	Material	Fin.	Saddle	Tran.	Frame	
601	A	2'-0" x 2'-0"	Treated Pine	Paint				Alum. /wood Jalousies
602	A	2'-0" x 2'-0"	Treated Pine	Paint				Alum. /wood Jalousies
603	A	2'-0" x 2'-0"	Treated Pine	Paint				Alum. /wood Jalousies
604	A	2'-0" x 2'-0"	Treated Pine	Paint				Alum. /wood Jalousies
605	A	2'-0" x 2'-0"	Treated Pine	Paint				Alum. /wood Jalousies
606	A	2'-0" x 2'-0"	Treated Pine	Paint				Alum. /wood Jalousies
607	A	2'-0" x 2'-0"	Treated Pine	Paint				Alum. /wood Jalousies
* Contractor shall verify all dimensions on site.								B.E.P. - Baked Enamel Paint

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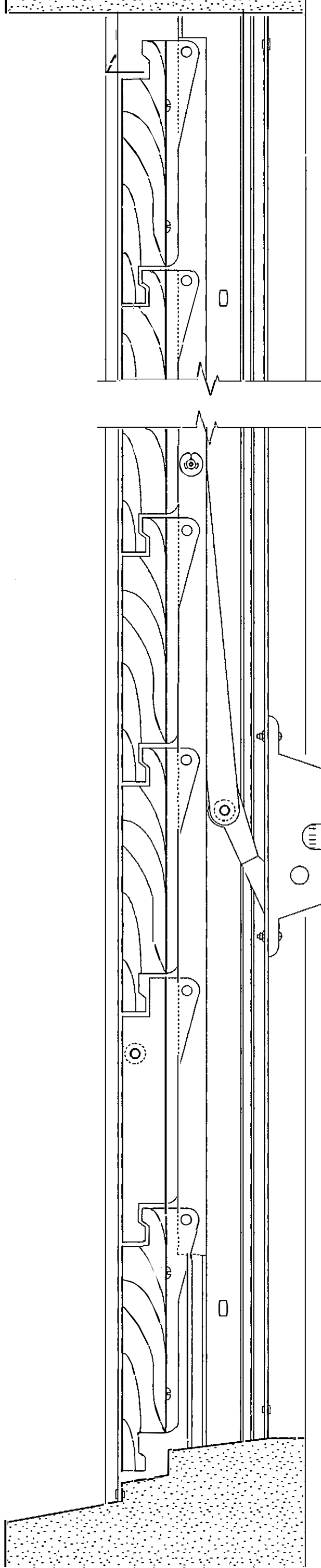
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Door & Window Types Details
Site

AS
16A

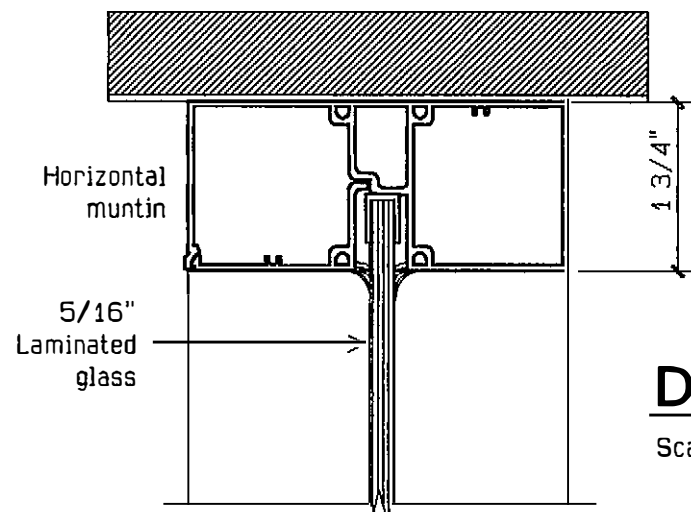
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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	54	181

FOR REFERENCE ONLY
PW-8361, DI-220569
Event 4339DR-PR

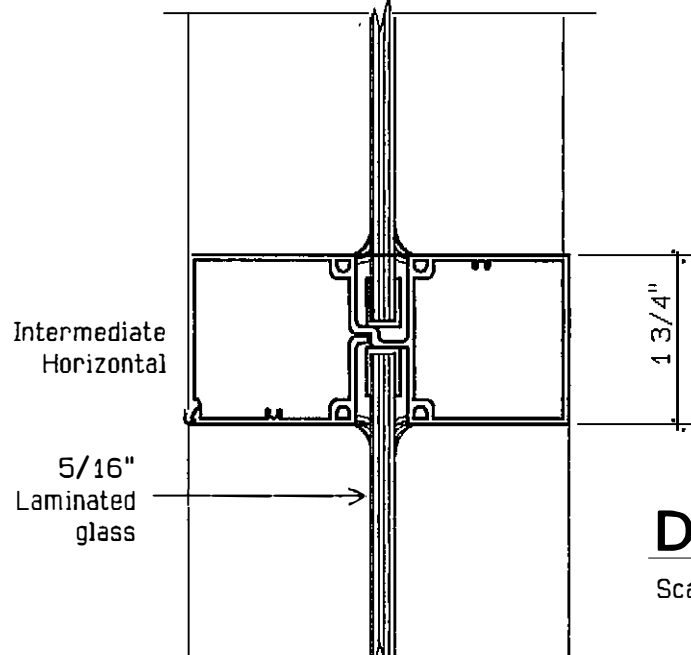


Detail 1
Scale: 6"=1'-0" AS-16B

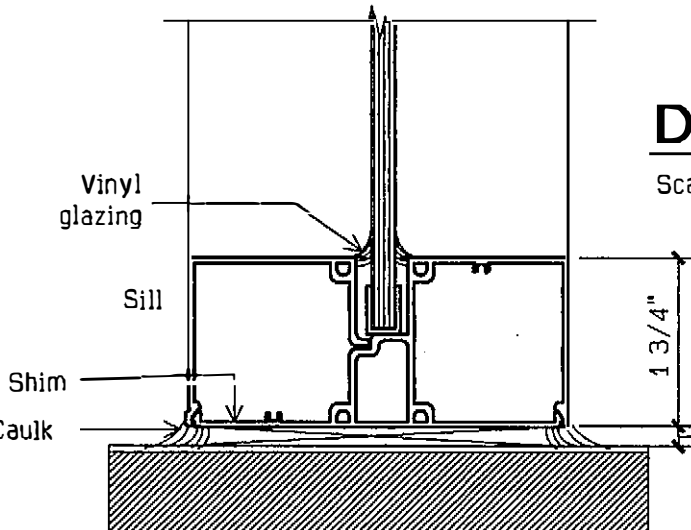
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Scale: 6"=1'-0" AS-16B



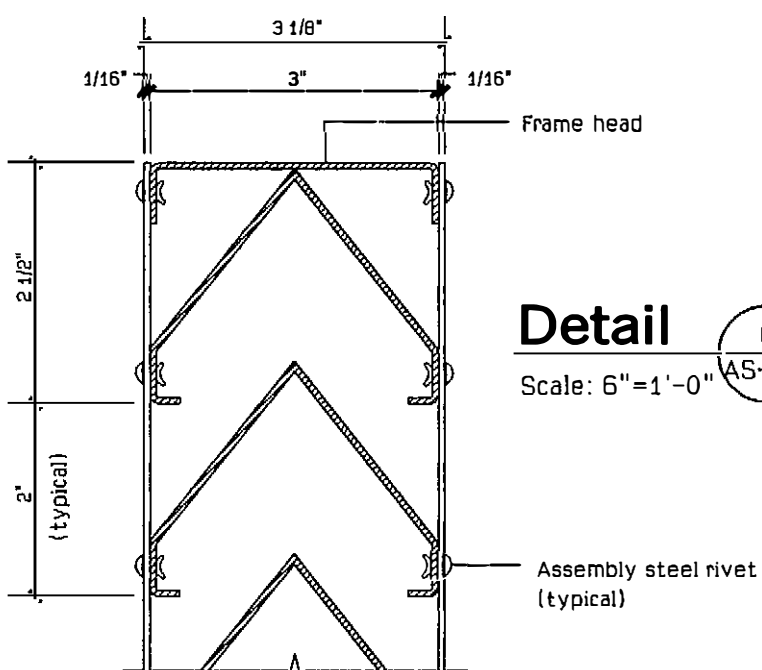
Detail 3
Scale: 6"=1'-0" AS-16B



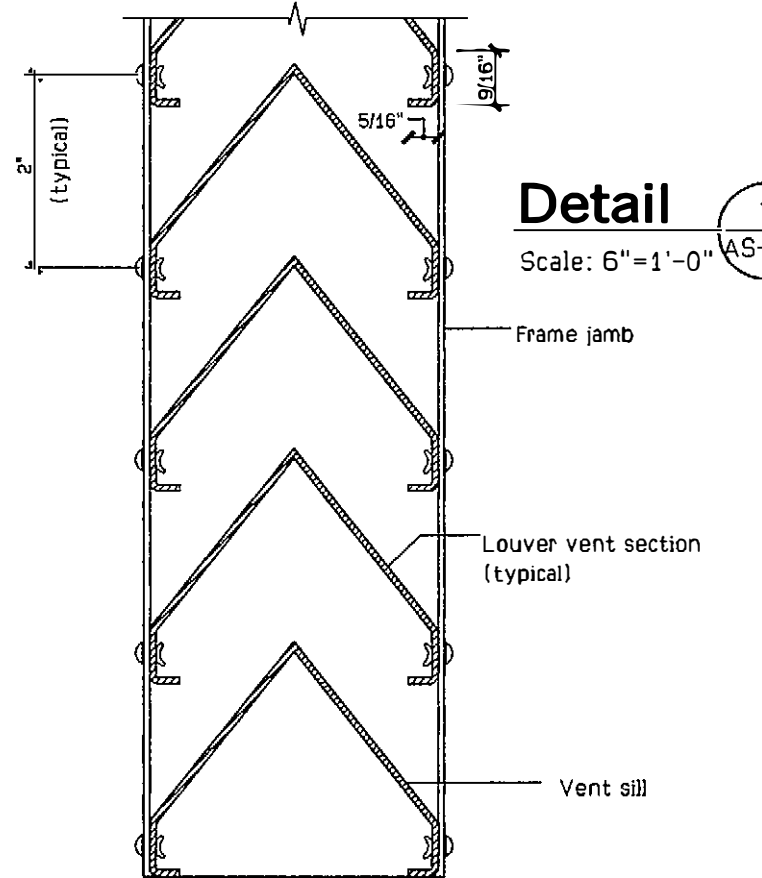
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Scale: 6"=1'-0" AS-16B



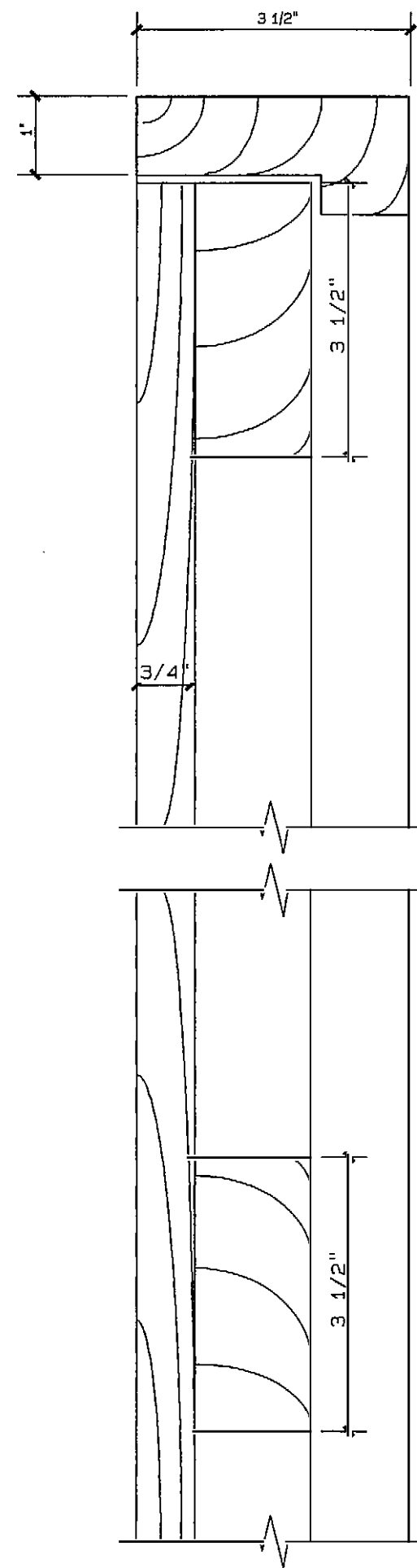
Detail 5
Scale: 6"=1'-0" AS-16B



Detail 6
Scale: 6"=1'-0" AS-16B

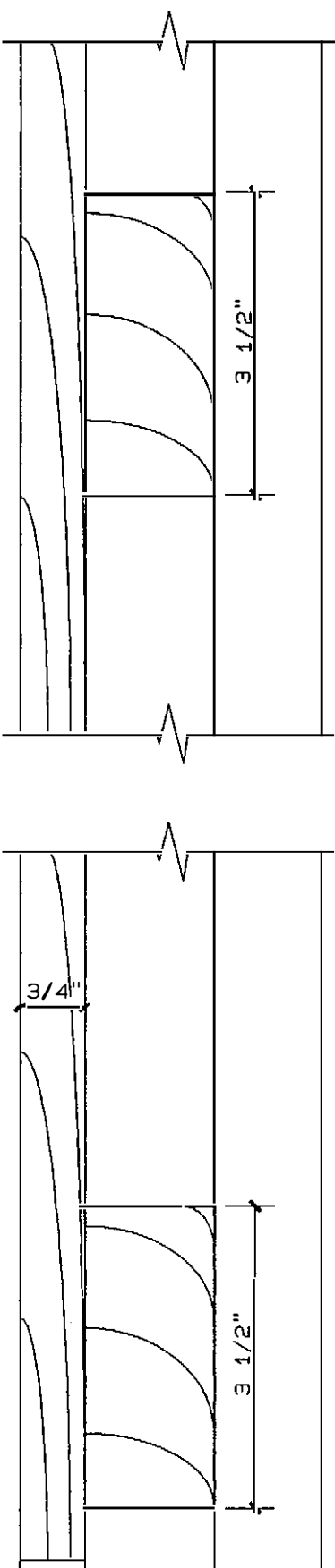


Detail 7
Scale: 6"=1'-0" AS-16B



Detail 8
Scale: 6"=1'-0" AS-16B

Detail 9
Scale: 6"=1'-0" AS-16B



Detail 10
Scale: 6"=1'-0" AS-16B

Detail 11
Scale: 6"=1'-0" AS-16B

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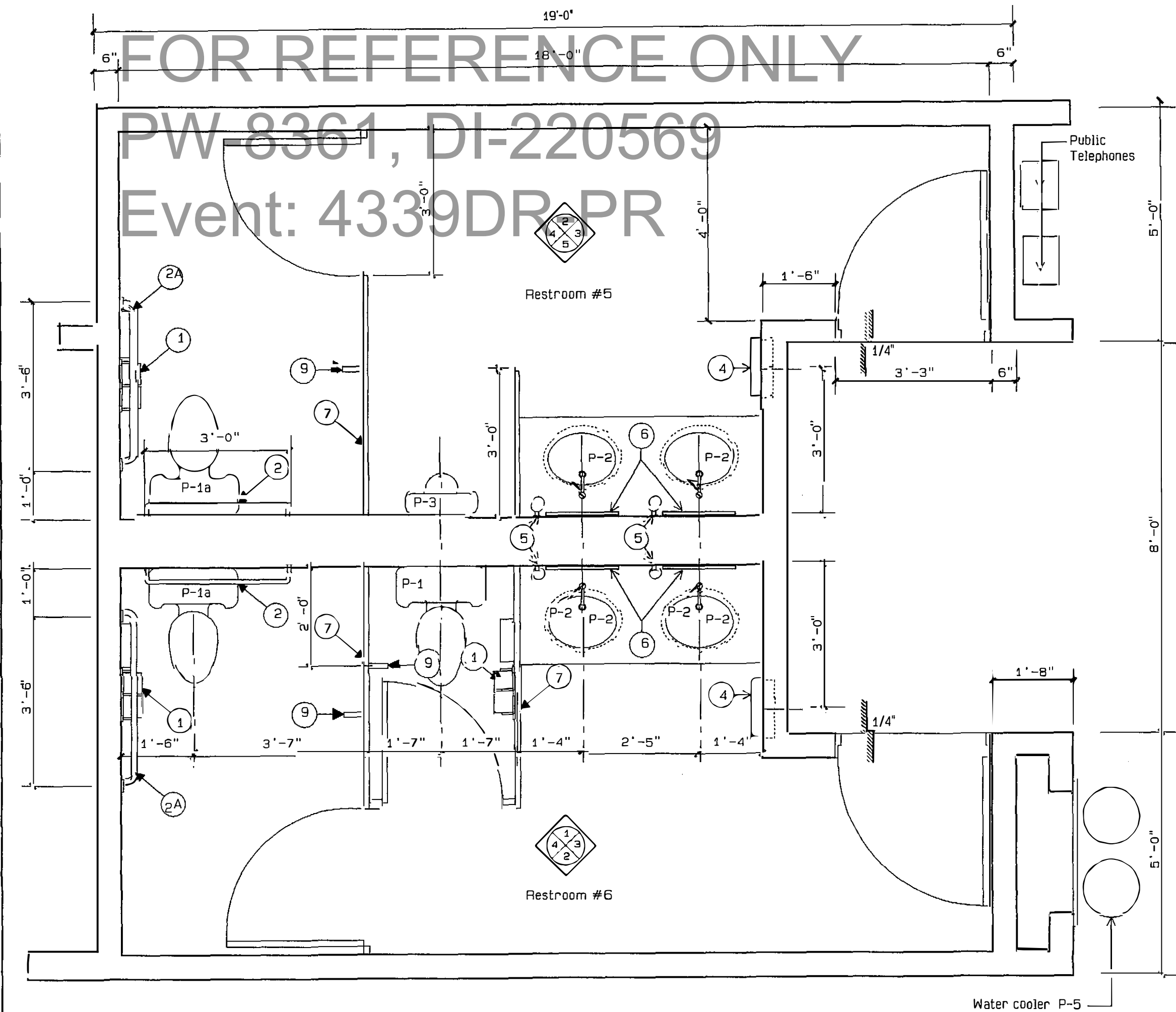
DATE REVISIONS

SCALE: 6"=1'-0"

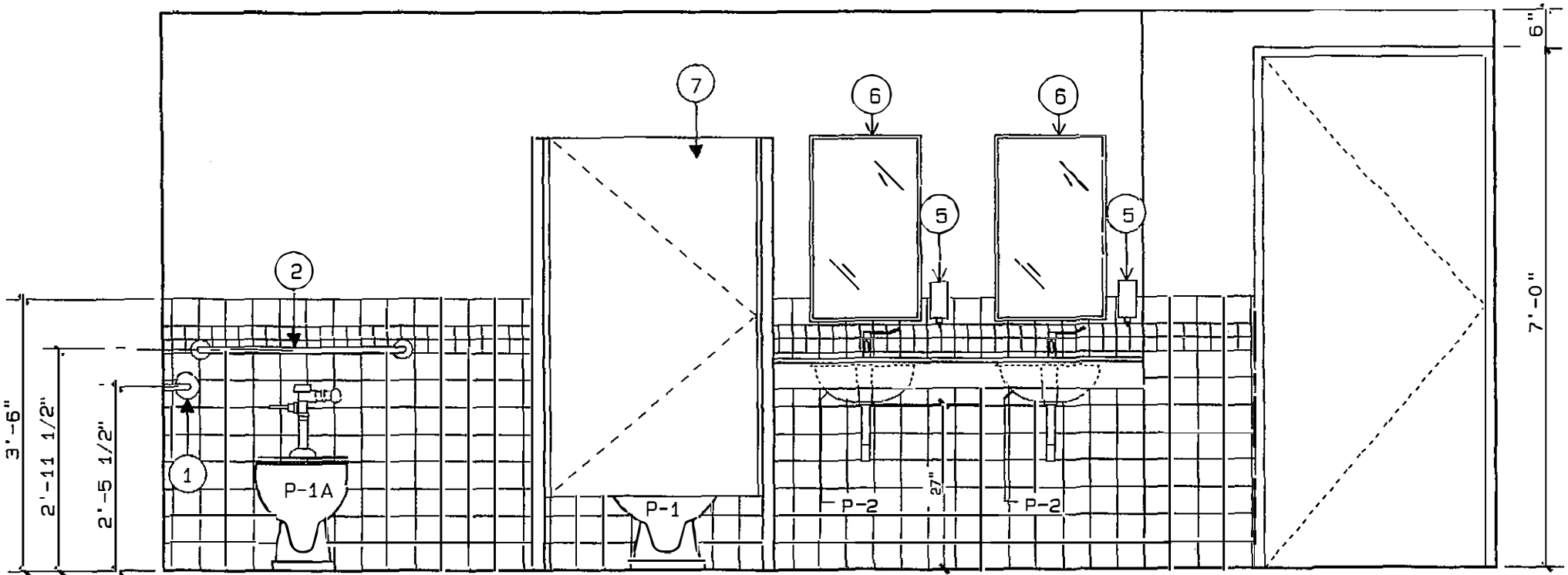
Door & Window Details
Site

AS
16B

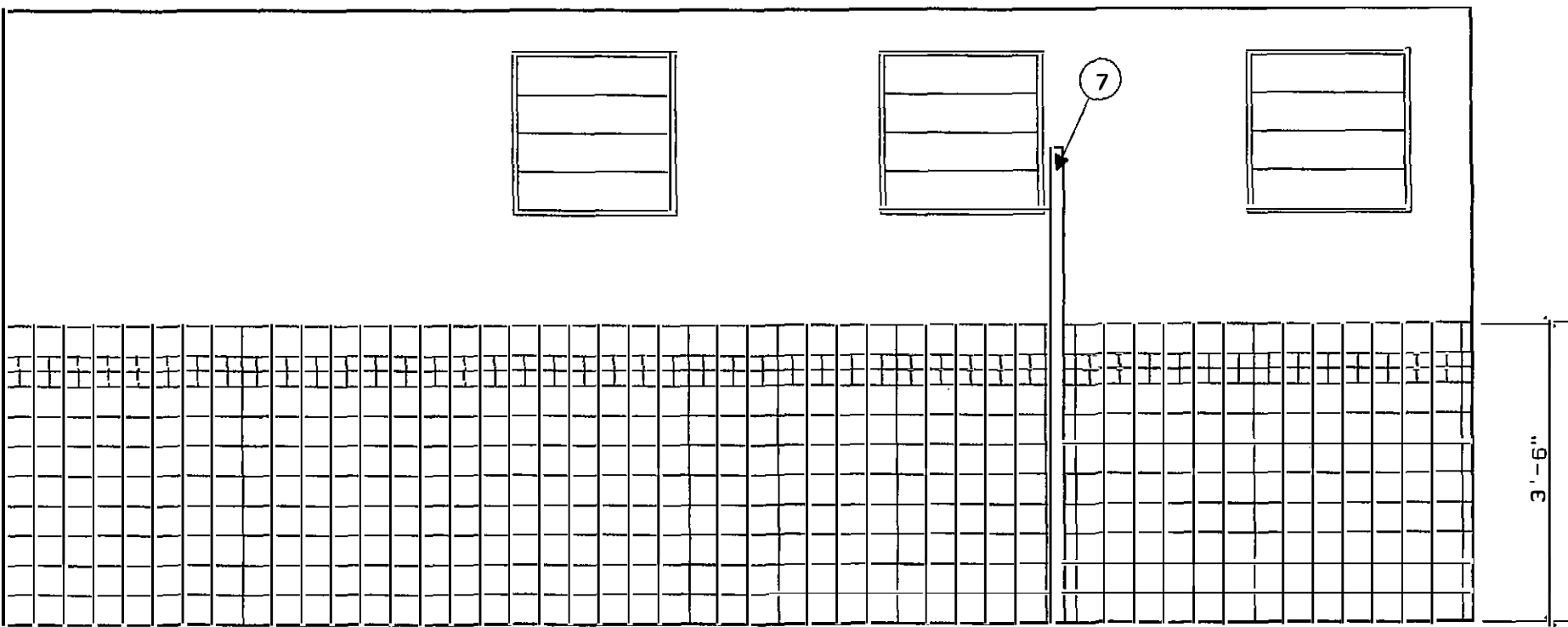
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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	55	181



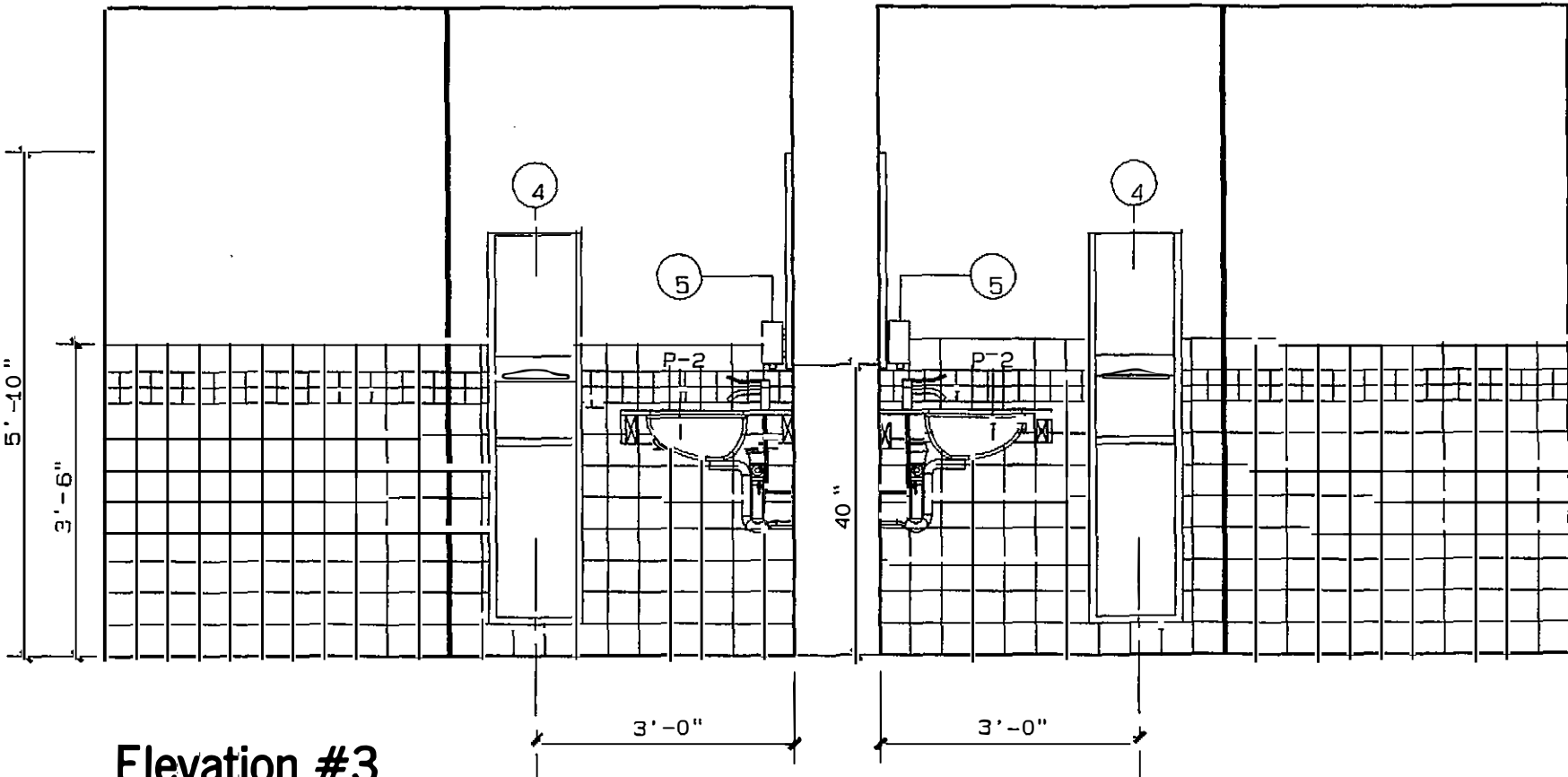
Floor Plan
Restroom #5,6
Scale : 1/2" = 1'-0"



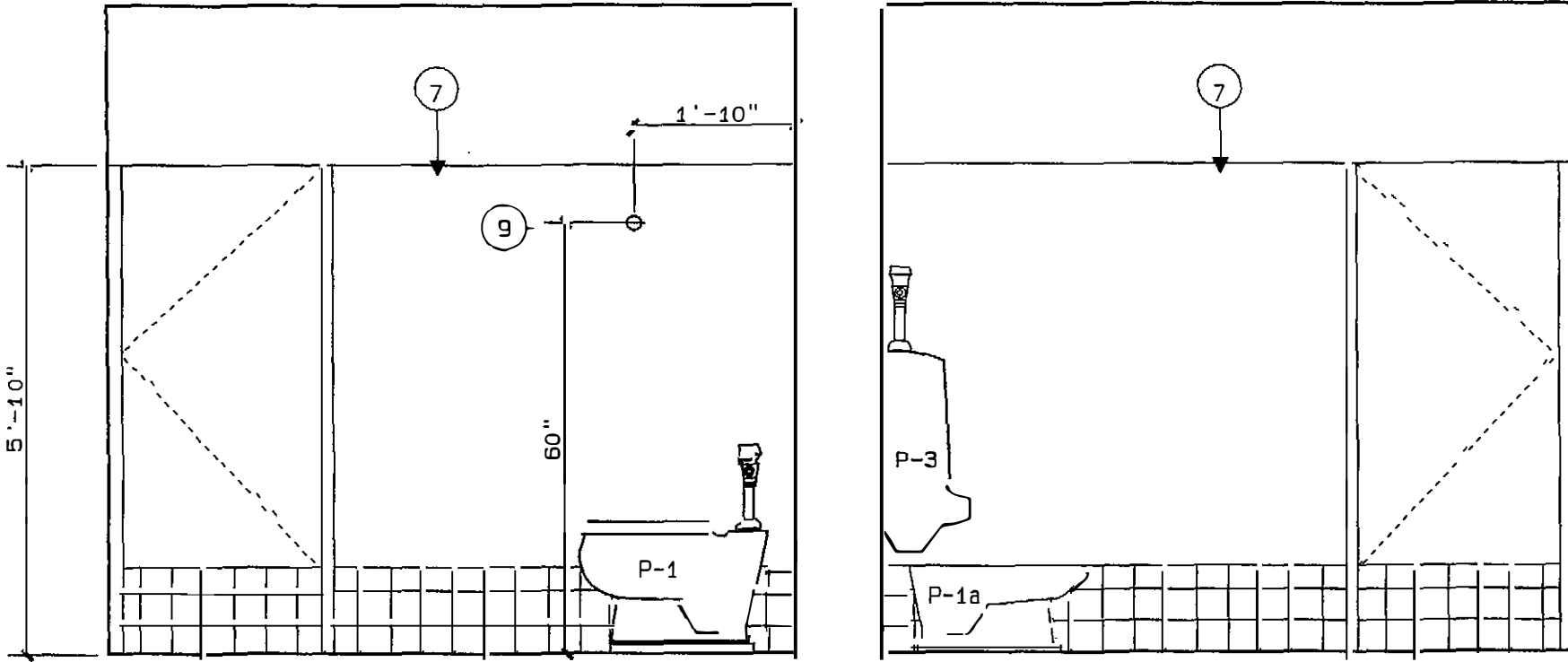
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Scale : 1/2" = 1'-0"



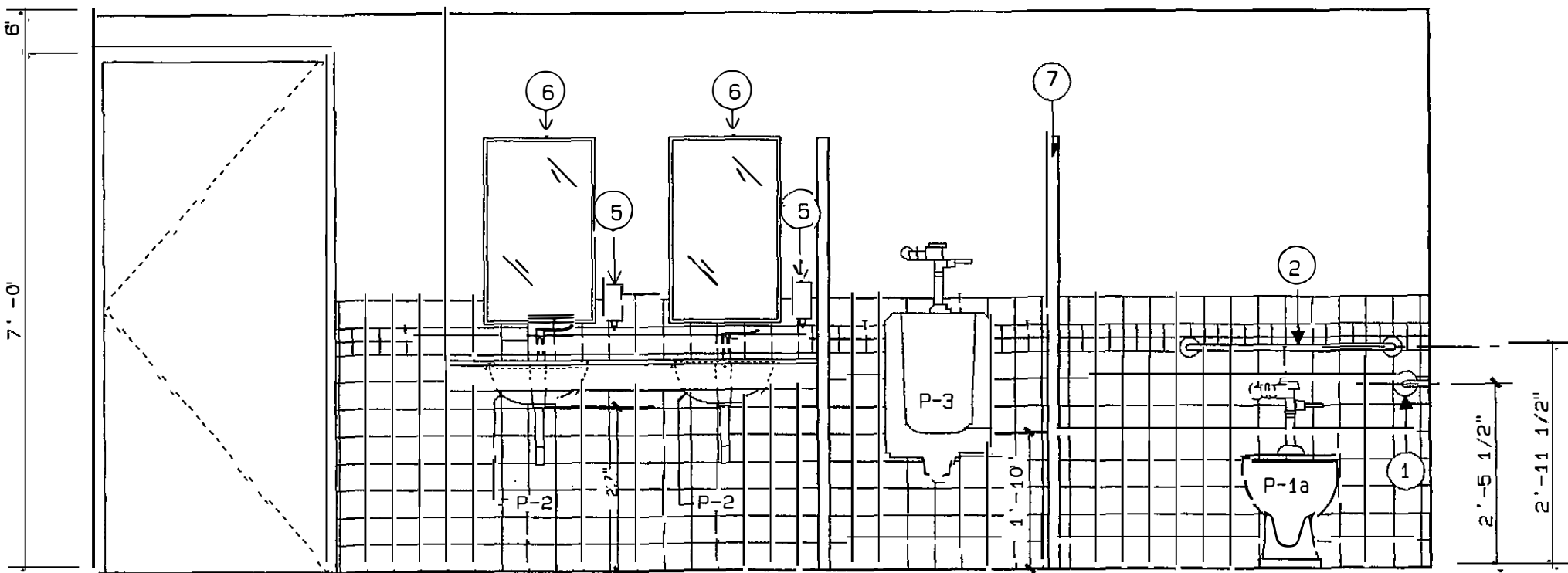
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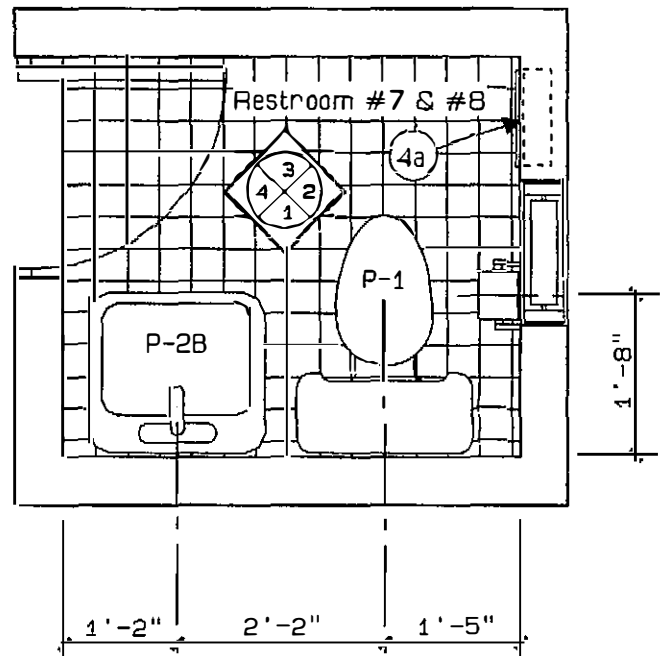
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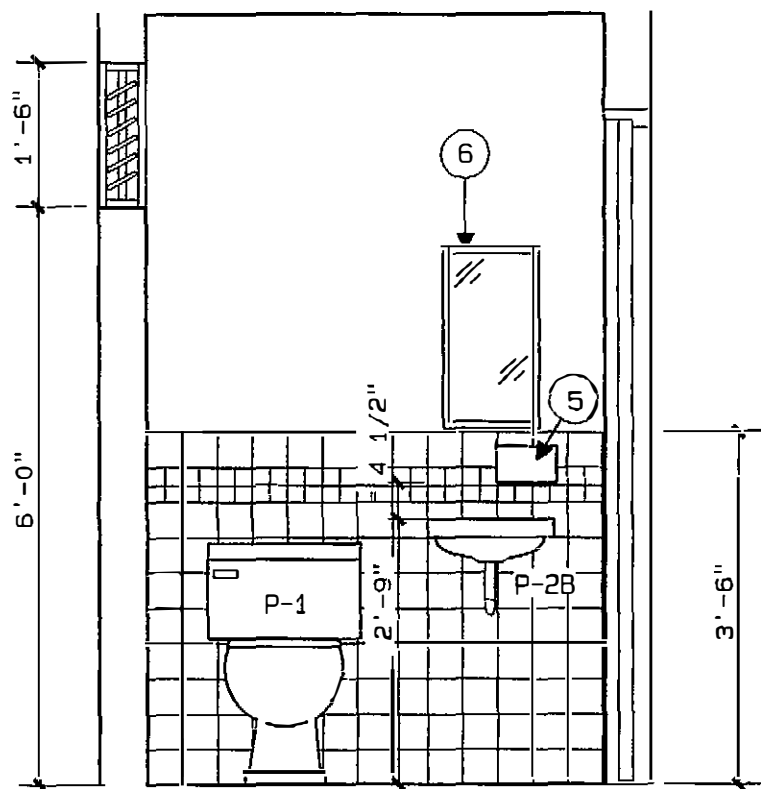
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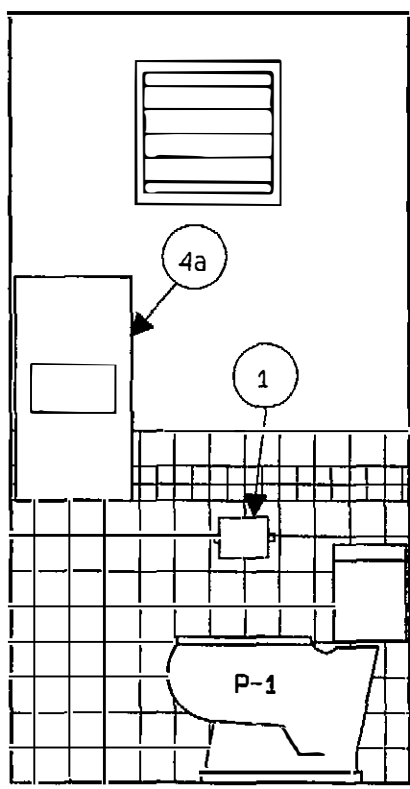
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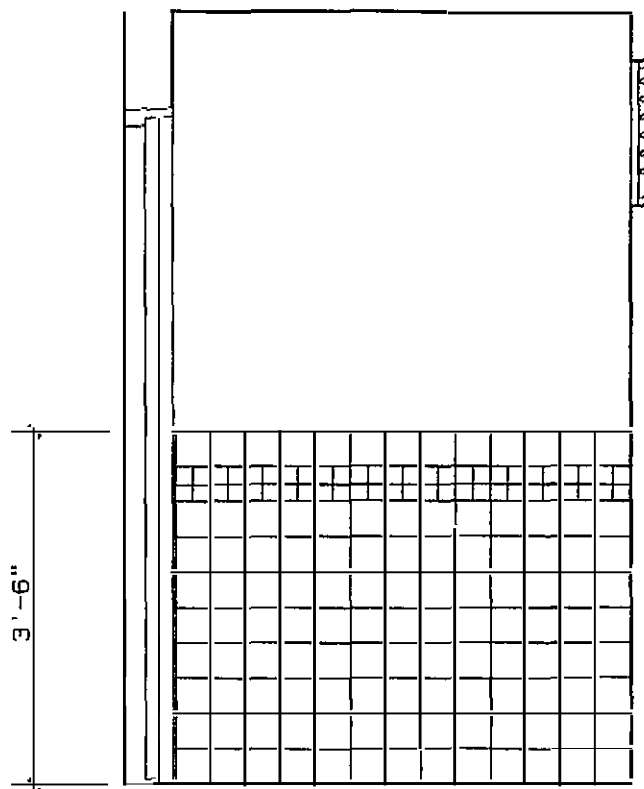
Floor Plan
Guard Booth Restroom (#7 & #8)
Scale : 1/2" = 1'-0"



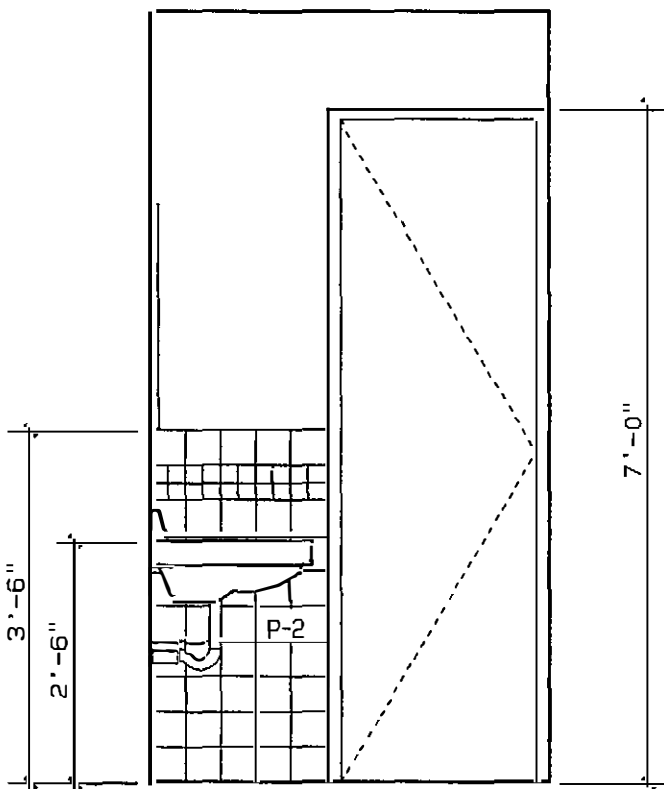
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Scale : 1/2" = 1'-0"



Elevation #2
Scale : 1/2" = 1'-0"



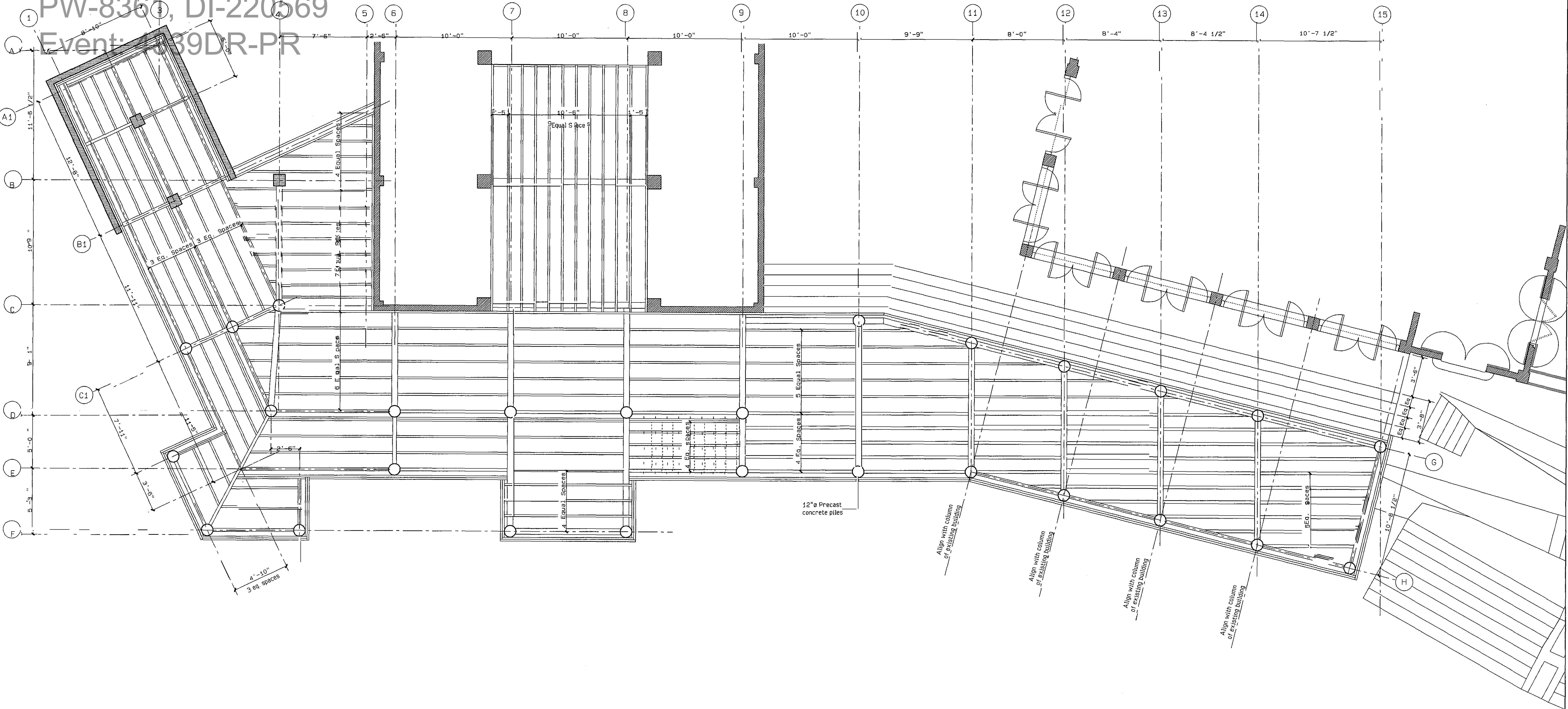
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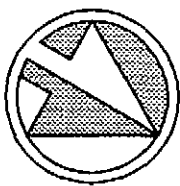
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Scale : 1/2" = 1'-0"

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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FOR REFERENCE ONLY
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CONCRETE PILES
All the piles to be installed in the project shall be 12" diameter circular precast concrete piles as manufactured by FUENTES CONCRETE PILE, Box 867, Bayamón, Puerto Rico 00960-0867; telephone (787) 785-9065, fax 740-4366, or approved equal. The piles will be cast in sectional lengths and jointed together with a steel structural connection, all reinforced and cast in a central plant to the satisfaction of the Structural Engineering Consultant. Sectional concrete piles shall be reinforced with six (6) each no. 5 bars, grade 60, secured in a cage by spiral stirrups spaced at 2'-1/2" on center. Steel structural connection shall be composed of a sleeve and band arrangement. Sleeves shall be 24" long and 0.188" wall divided in the center by a steel plate upon which the mandrel rests while driving, sections to be connected by spot welding sleeve to bands. Concrete shall be 5,000 psi at 28 days.

 **Structural Plan**
Scale: 1/4" = 1'-0"

Note: For structural details and beams and columns sizes of the dock frame refer to structural drawings on sheets S-4.0, 4.1 and 4.2

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

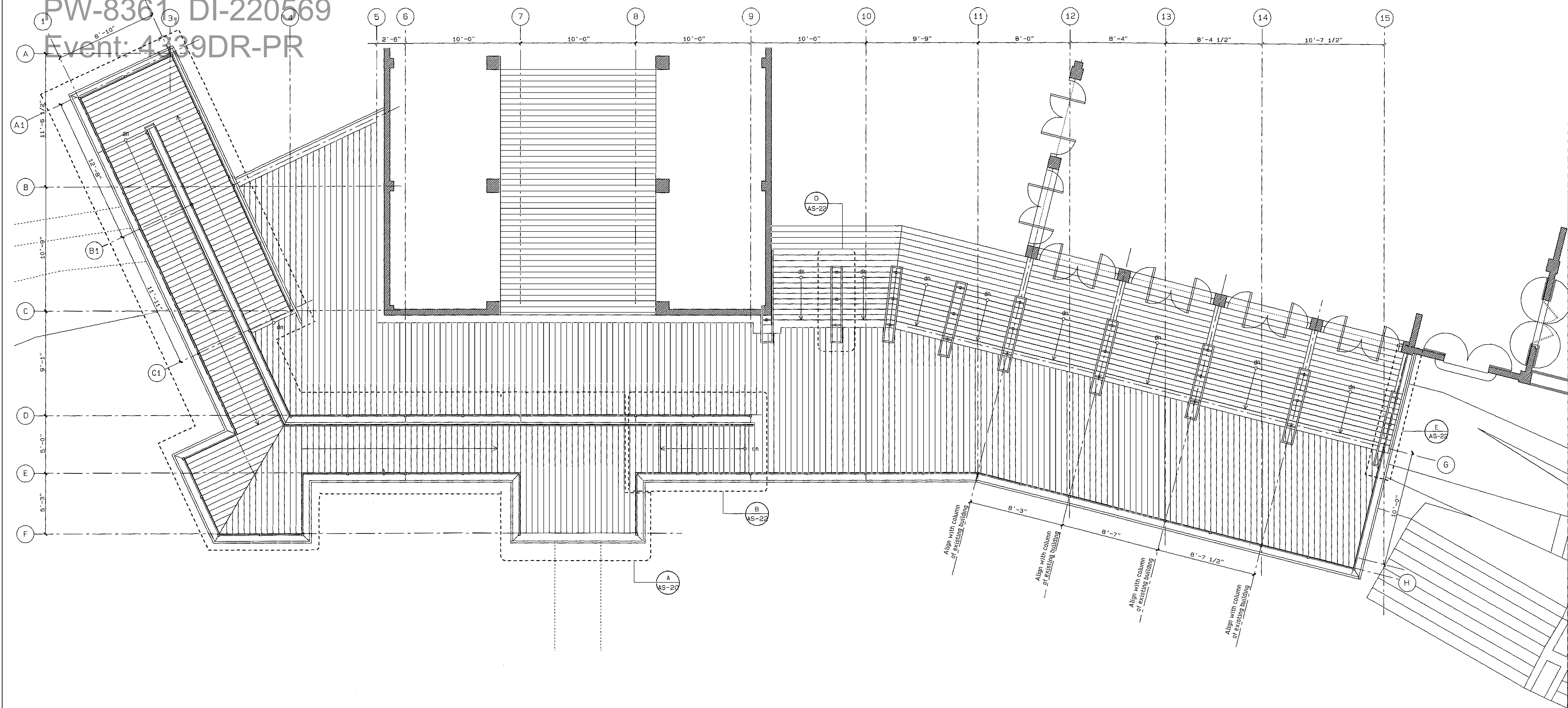
SCALE: 1/4" = 1'-0"

Dock Structural Plan
Site Plan (D)

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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	57	181

FOR REFERENCE ONLY
PW-8361 DI-220569
Event: 4339DR-PR

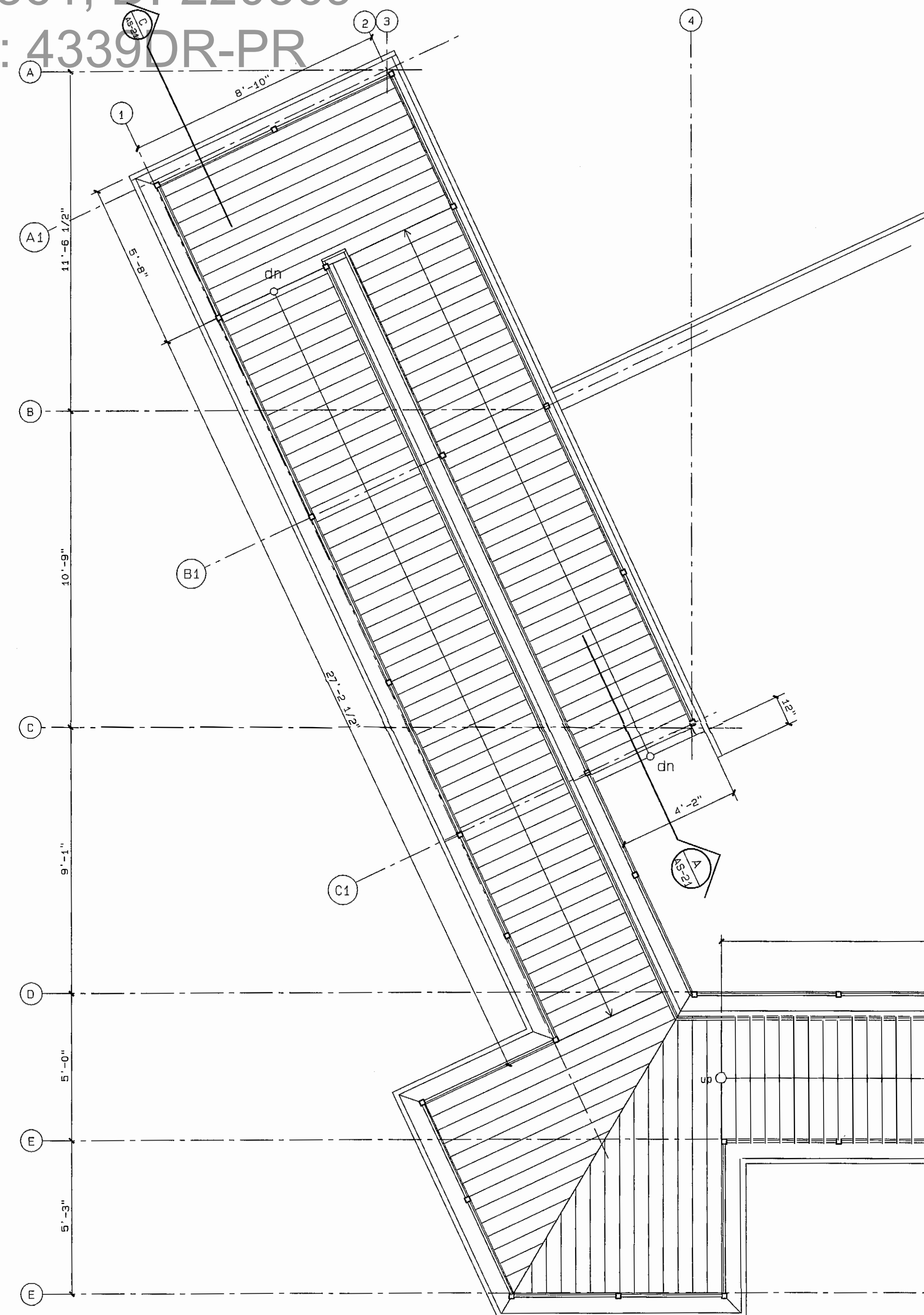


Dock Plan
Scale: 1/4" = 1'-0"

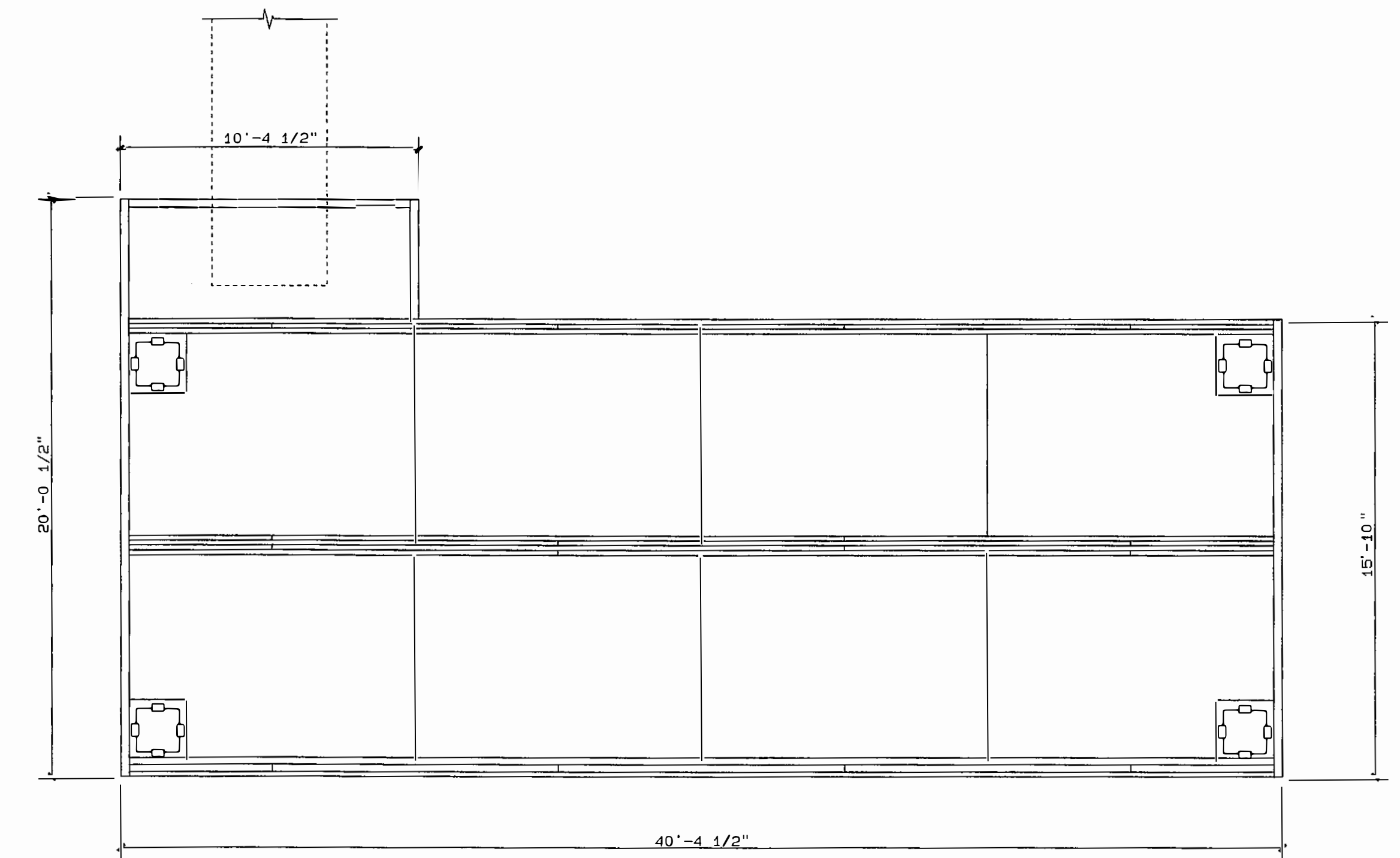
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY JRC DAVIS PAGAN CONSULTING ARCHITECT / SAN JUAN PUERTO RICO	EMBARCADERO LAGO DOS BOCAS UTUADO / ARECIBO PUERTO RICO	DATE	REVISIONS	SCALE: 1/4" = 1'-0"	Dock Plan Site Plan (D)	<div>AS</div> <div>19</div>

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

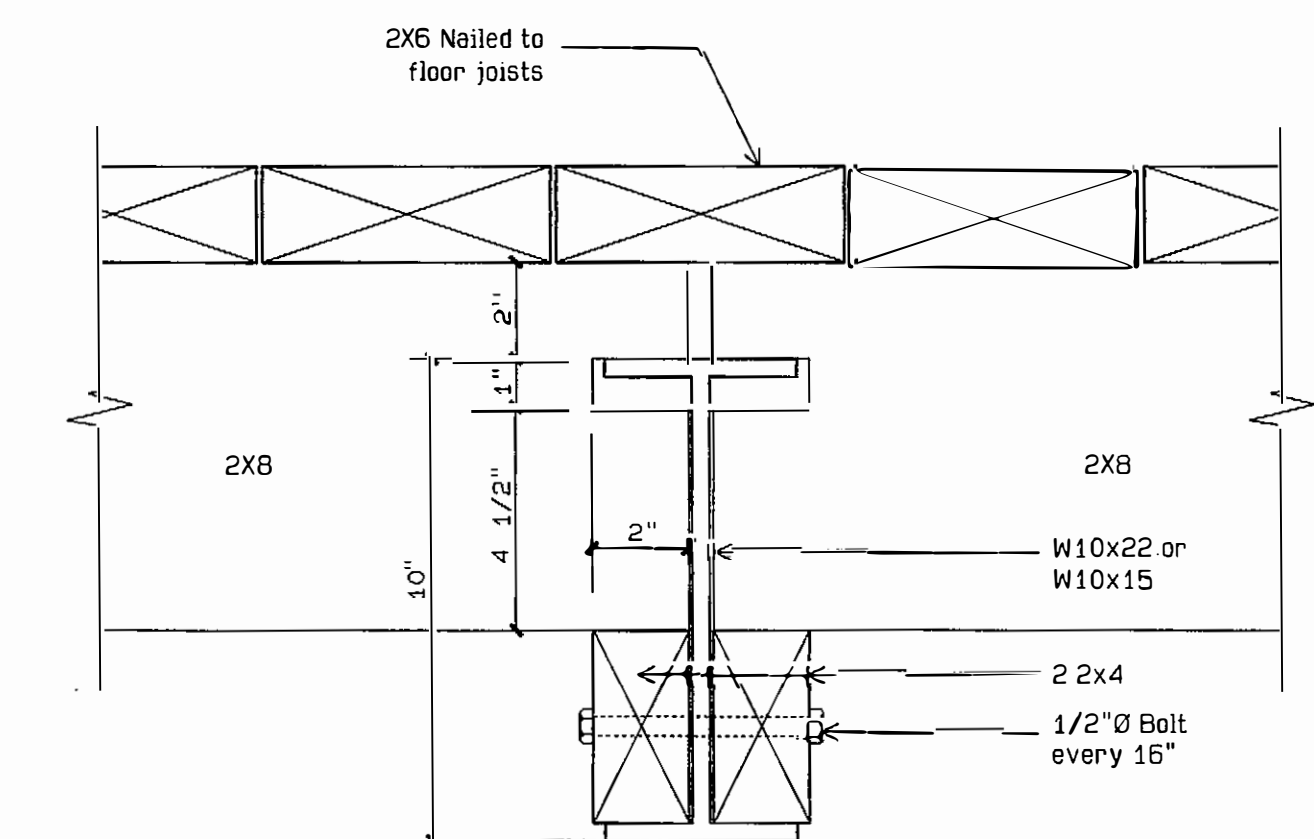
FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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Detail "A"/Partial Plan/Deck Ramp
Scale: 3/8" = 1'-0"



Floating Dock Plan - Detail "B"
Scale: 1/4" = 1'-0"



Detail 1
Scale: 3/8" = 1'-0"

See structural detail 1
on sheet S-4.2.

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PUERTO RICO

DATE

REVISIONS

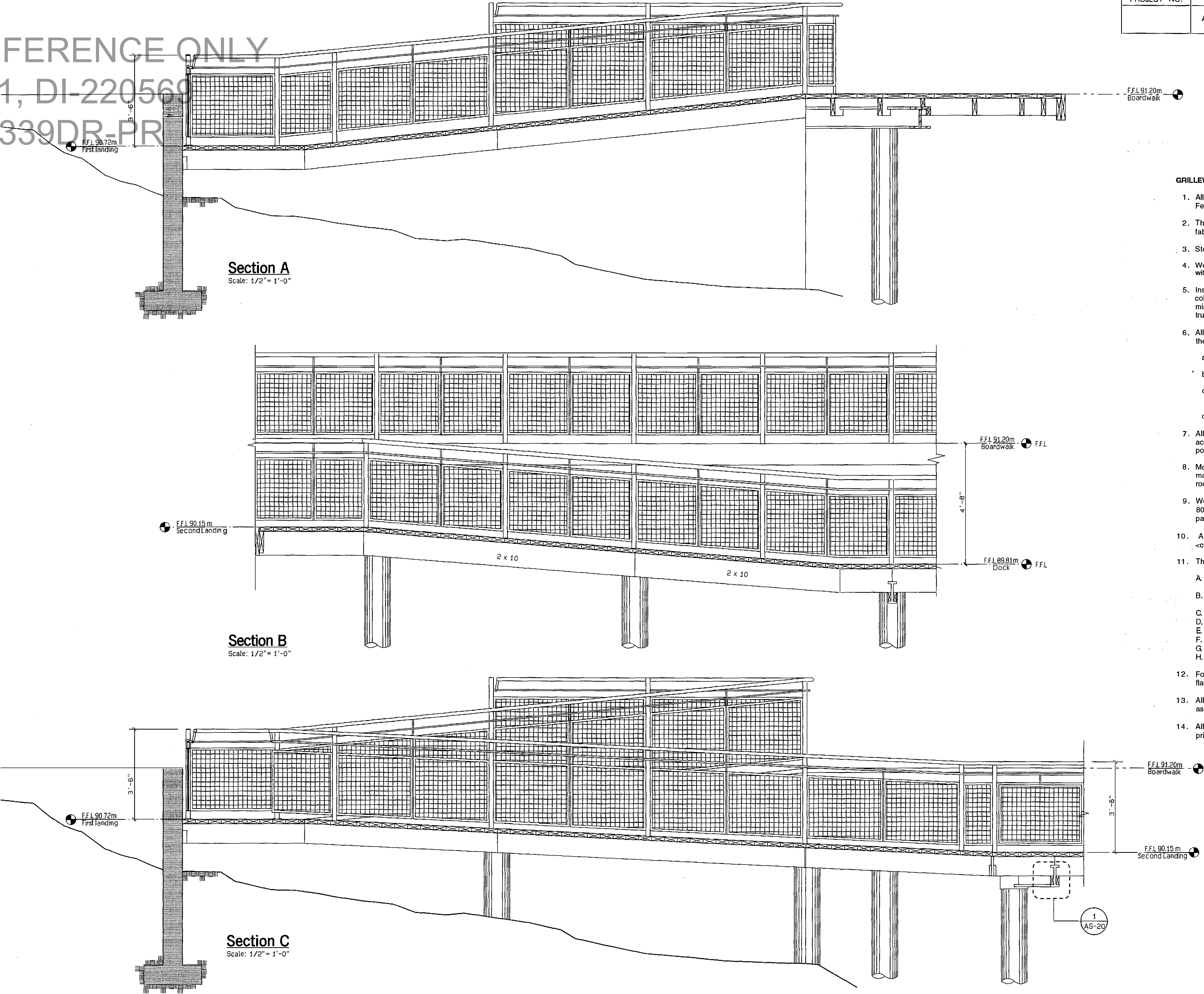
SCALE: As Shown

Dock Ramp /Details
Site Plan (D)

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FOR REFERENCE ONLY
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Event: 4339DR-PR

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- GRILLEWORK NOTES / EMBARCADERO LAGO DOS BOCAS**
- All steel work shall follow Technical Specifications Section 05510- Metal Work: Fence, Railings, Gate, Etc.
 - The contractor and/or subcontractor shall verify all real measurements before fabricating and/or installing grillework.
 - Steel shapes shall be solid stock, except as shown in the drawings.
 - Weld joints and grind smooth. Anchors into masonry or concrete must be integral with fabricated sections.
 - Install completed sections with shop installed anchors directly into walls or columns, as the case may be. Welding at site to install sections must be kept to a minimum. Set work accurately in location, alignment and elevation, plumb, level, true and free of rack, measured from established lines and levels.
 - All material used shall be hot-dipped galvanized. The following is specified from the McNichols Co. catalog (tel: 800-237-3820).
 - "Expanded metal" material shall be type no. 9 standard, with aprox. 3/4" openings.
 - "Wire cloth" material shall be 0.12 gauge wire, 1"x1" squares and with style M-8 welded edge.
 - "Perforated metal" material shall be 1/8" thick with 1/4" diameter perforations, 11/16" staggered centers, 2.5 holes per square inch, 48% open area.
 - All other material shall be as specified on the drawings.
 - All 90 degree joints, when not otherwise specified on the drawings, shall be accomplished by cutting the members at 45 degrees, then they shall be welded, polished and painted.
 - Most welding shall be done at the subcontractor's shop and with a MIG welding machine, with an electrode and 6013 rod on non-structural members and a 7018 rod on structural members.
 - Welds shall be polished with PFERD HORSE abrasive disks, Polifan Zirkon, series 80PFF180-22-Z40 or as approved equal. This will assure a smooth surface for painting.
 - All welding, after polishing and when ready to be painted, will receive two coats of <cold galvanizing paint> - ZRC Cold Galvanizing Compound or as approved by Arch.
 - The painting procedure shall be as follows:
 - All painting shall be done at the sub-contractor's shop, before installation, except for minimal touch-up to ensure a uniform/smooth surface.
 - Surface preparation: remove all dust, dirt, grease or oil with mineral spirits and dry with clean cloths.
 - Pre-finish - one coat: MOBILE PAINT, Vinyl Wash Primer 9-42.
 - Welded joints - two coats: ZRC Cold Galvanizing Compound.
 - Primer - 1 coat: MOBILE PAINT, Prymall No. 55 Zinc Dust Primer 9-84.
 - Finish - 2 coats: MOBILE PAINT, Jack Tar Yacht Silicone Finish 432.
 - Application - use aire compressor.
 - Colors - as selected by Architect (3 colors minimum / 5 colors maximum).
 - For swing purposes, all pivot gates 48" wide or less shall be fitted with flanged bearings at the foot and head.
 - All gates installed at emergency exits shall be fitted with a push-panic bar, as approved by the Architect.
 - All steel work shall be approved by the Architect at the sub-contractor's shop prior to being transported to the site for installation.

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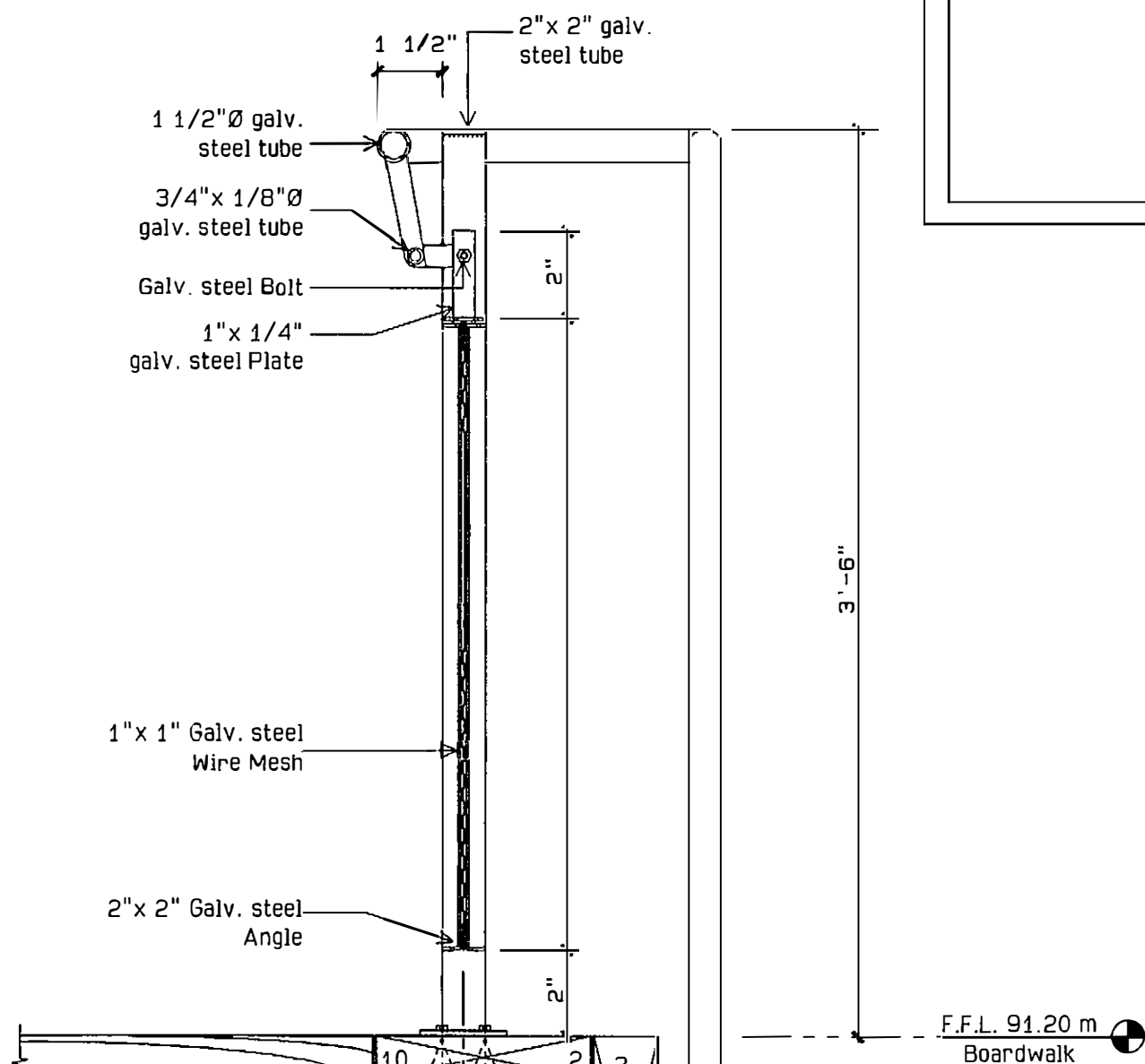
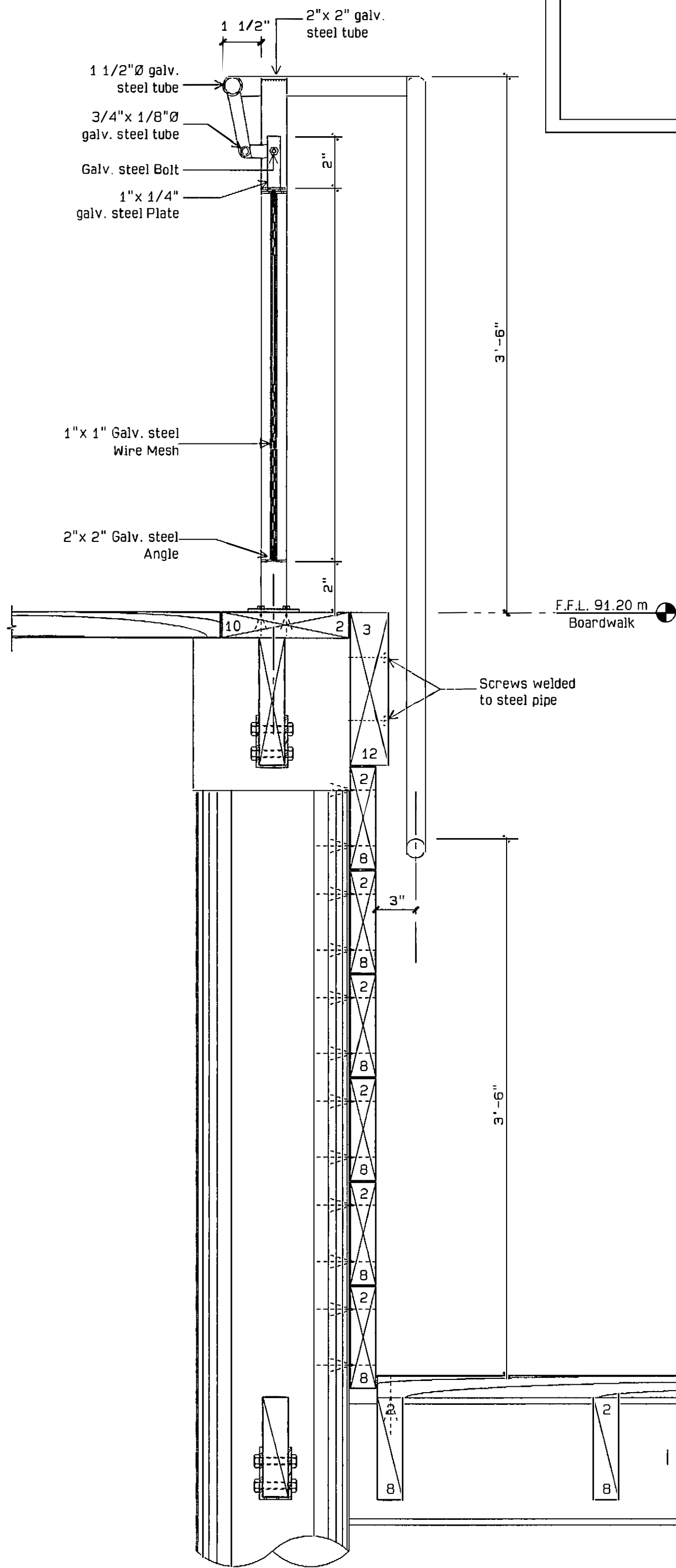
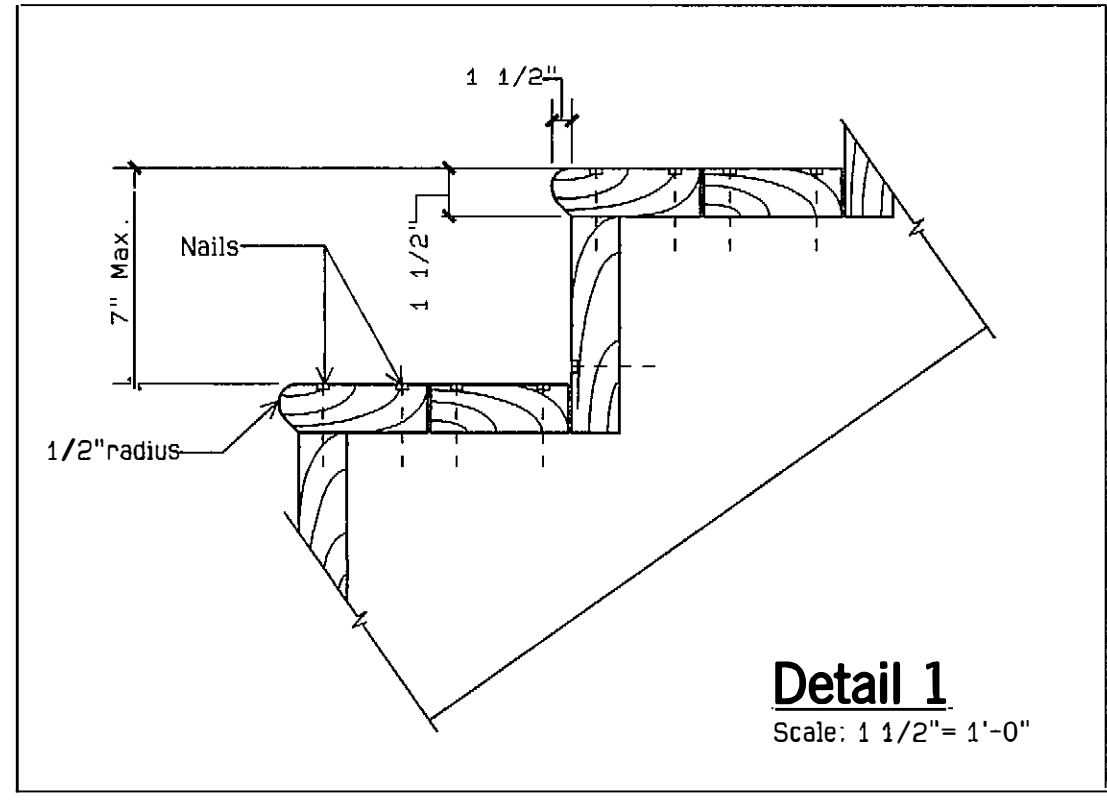
DATE REVISIONS

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

Dock Sections & Details
Site Plan (D)

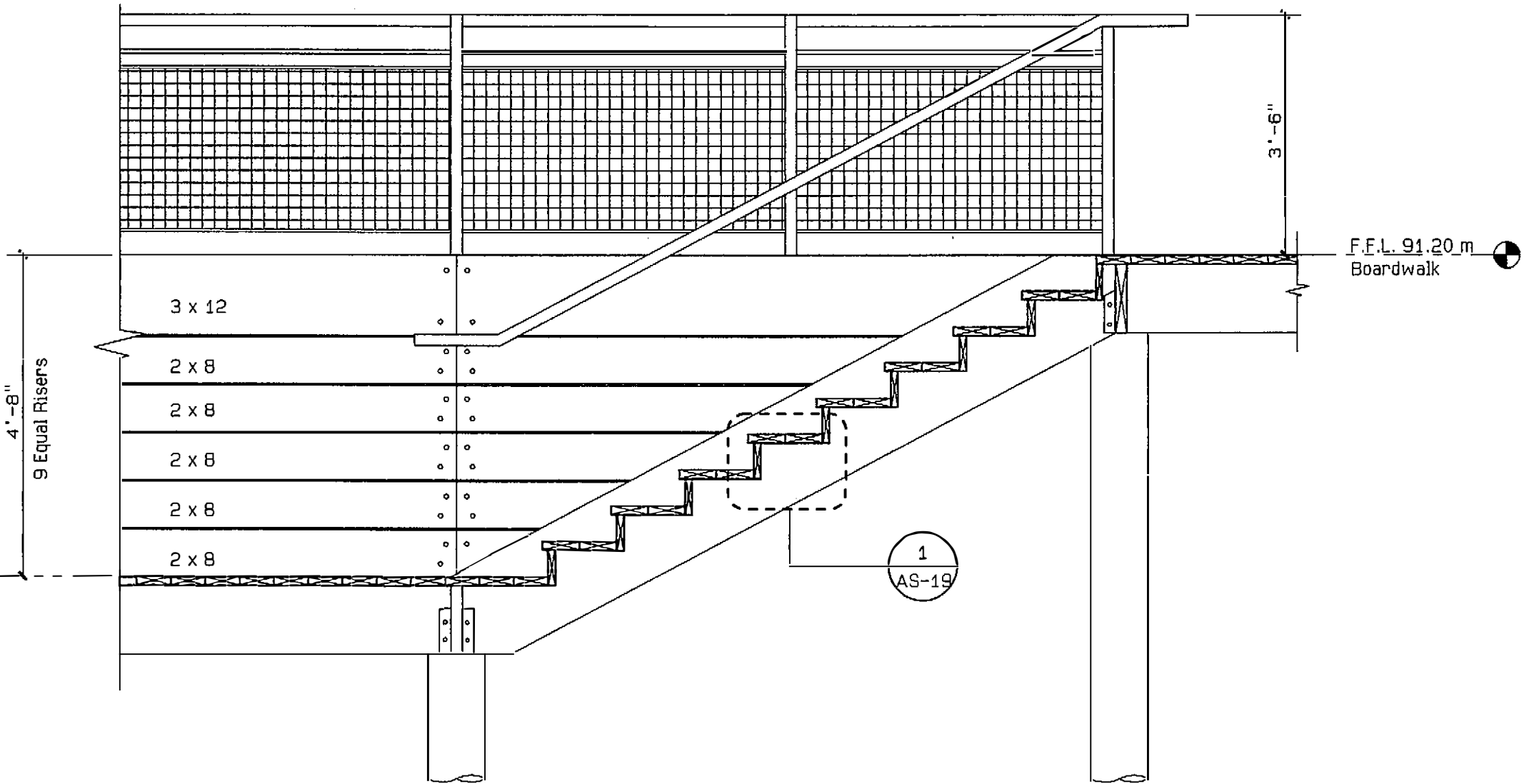
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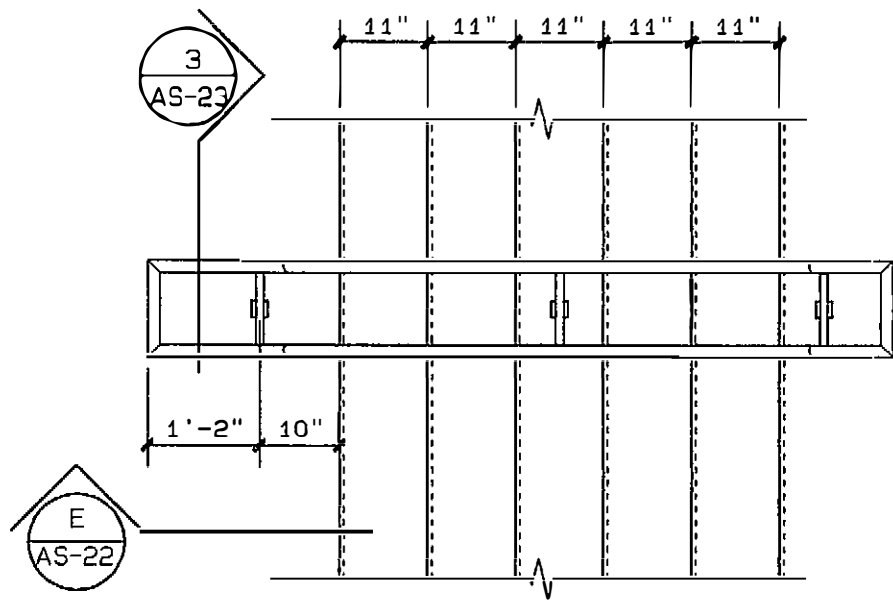


Detail "B"

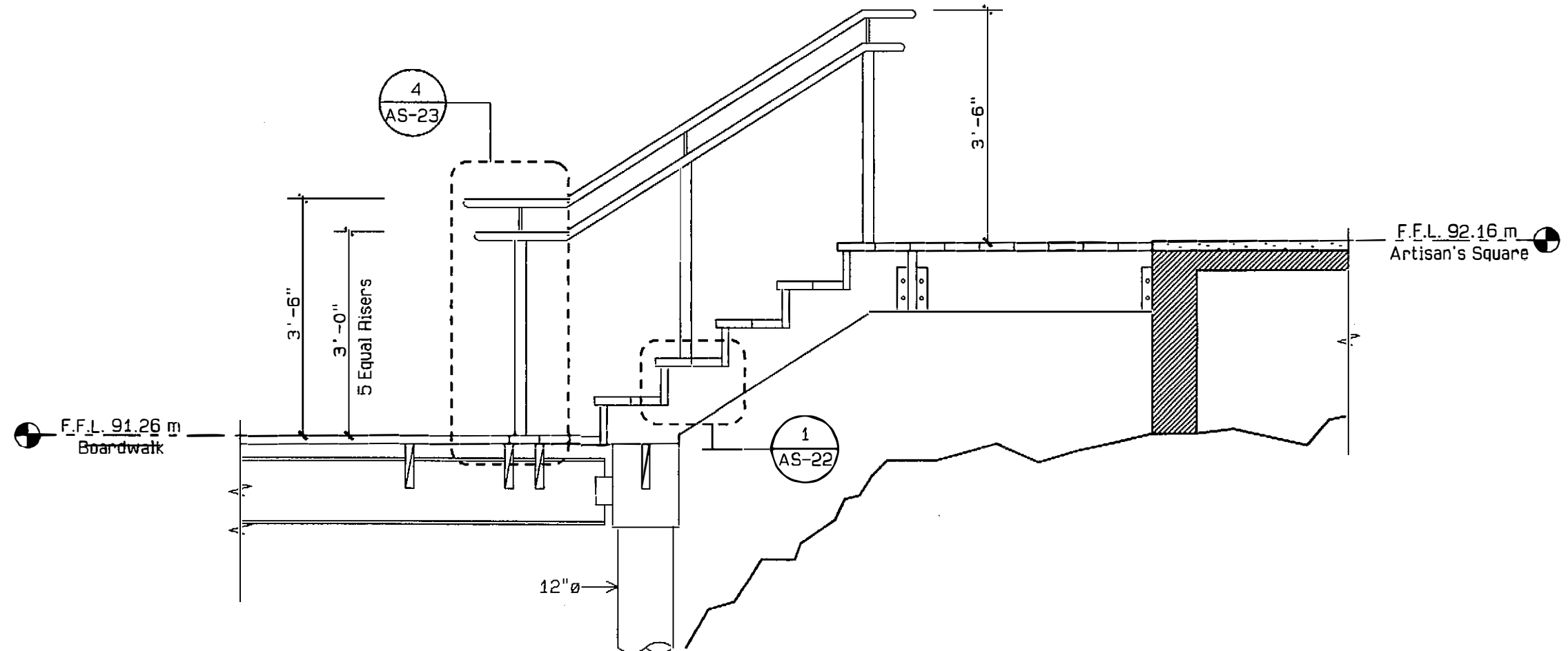
Section "Y"
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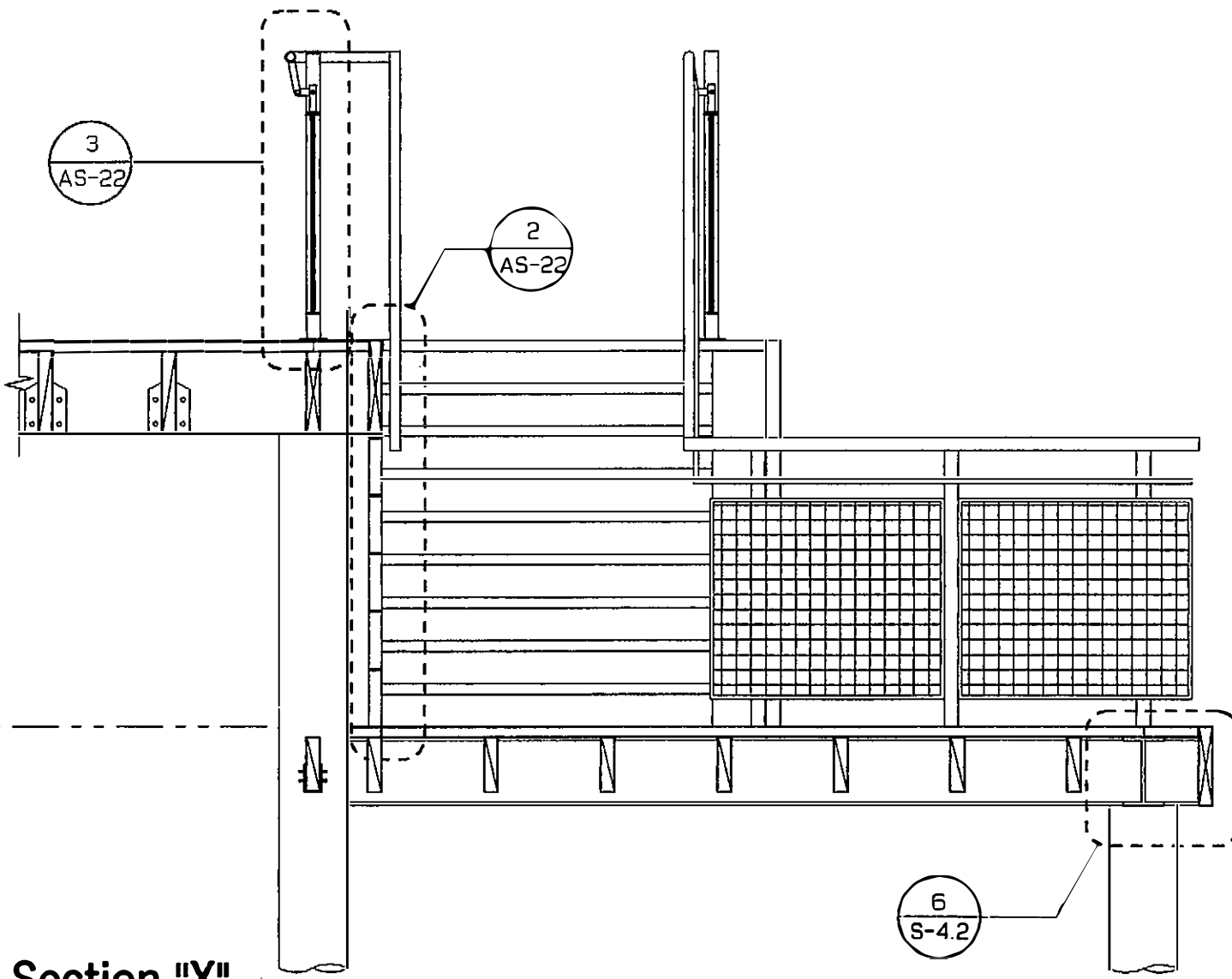
Partial Plan
Scale: 1/2" = 1'-0"



Section "E"
Scale: 1/2" = 1'-0"



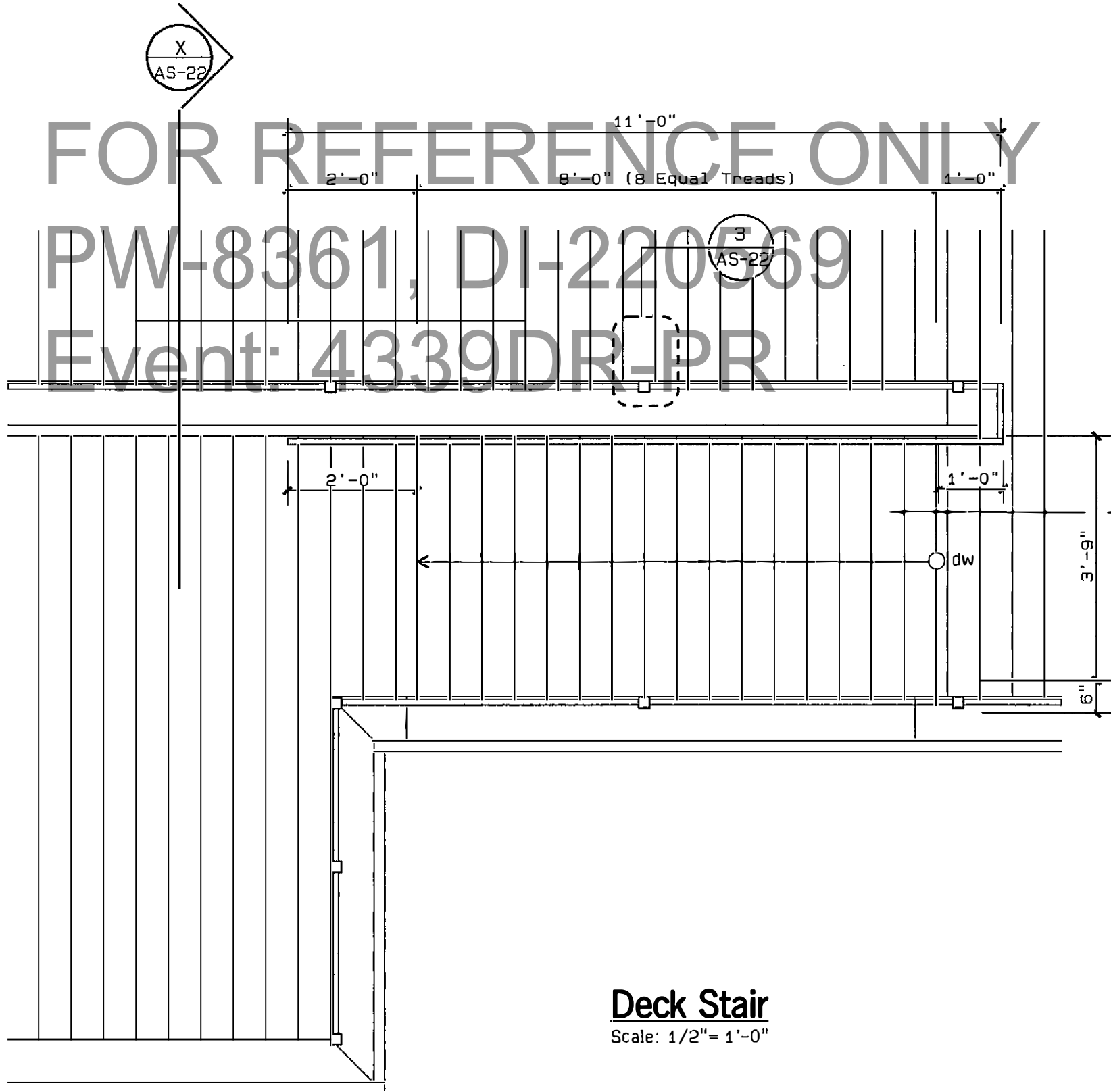
Detail "D"



Section "X"
Scale: 1/2" = 1'-0"

Note: For beams, girders and columns sizes of dock framing see structural drawings and schedule on sheets S-4.0, 4.1, 4.2.

Deck Stair
Scale: 1/2" = 1'-0"



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PUERTO RICO

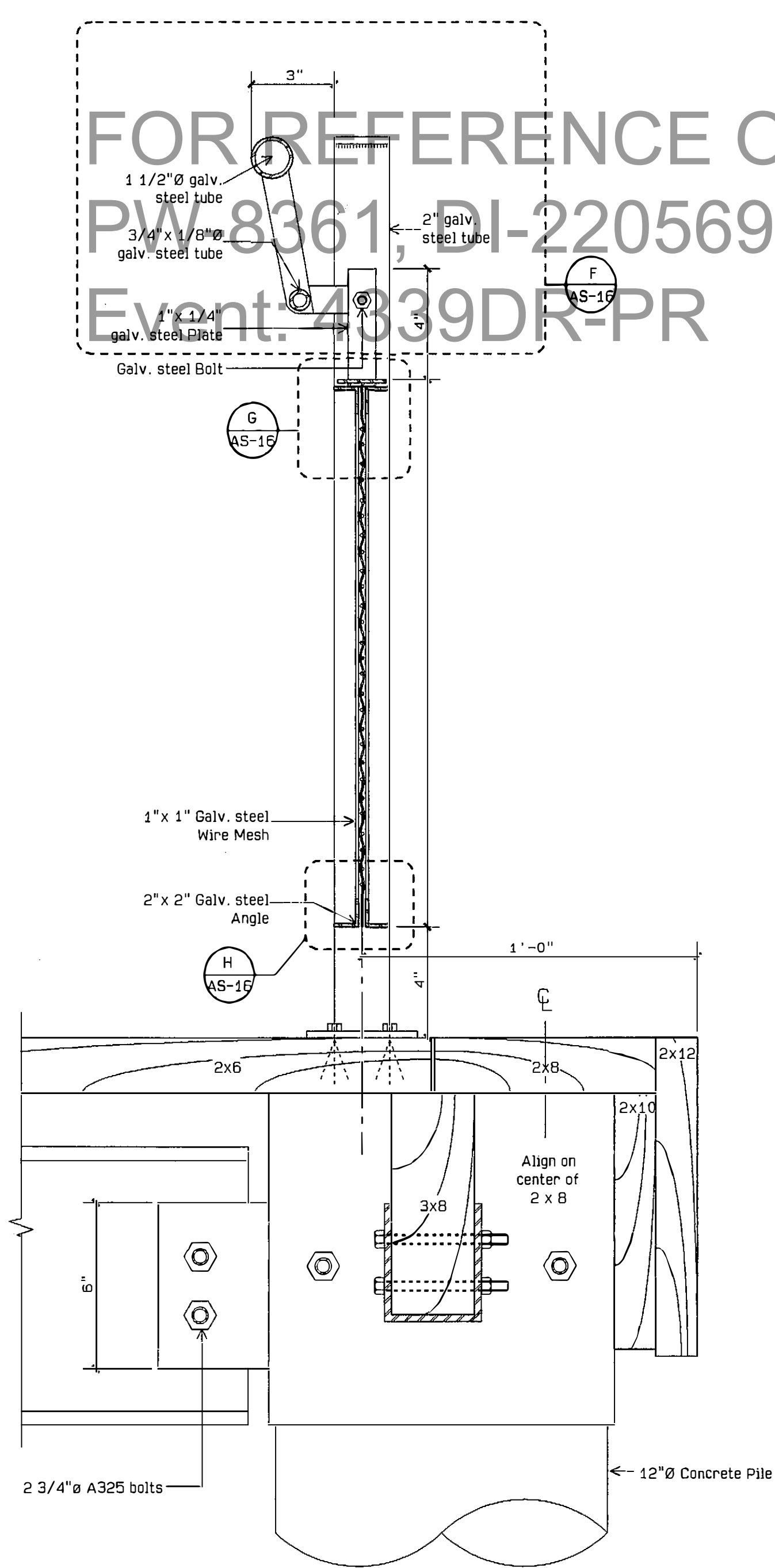
DATE	REVISIONS

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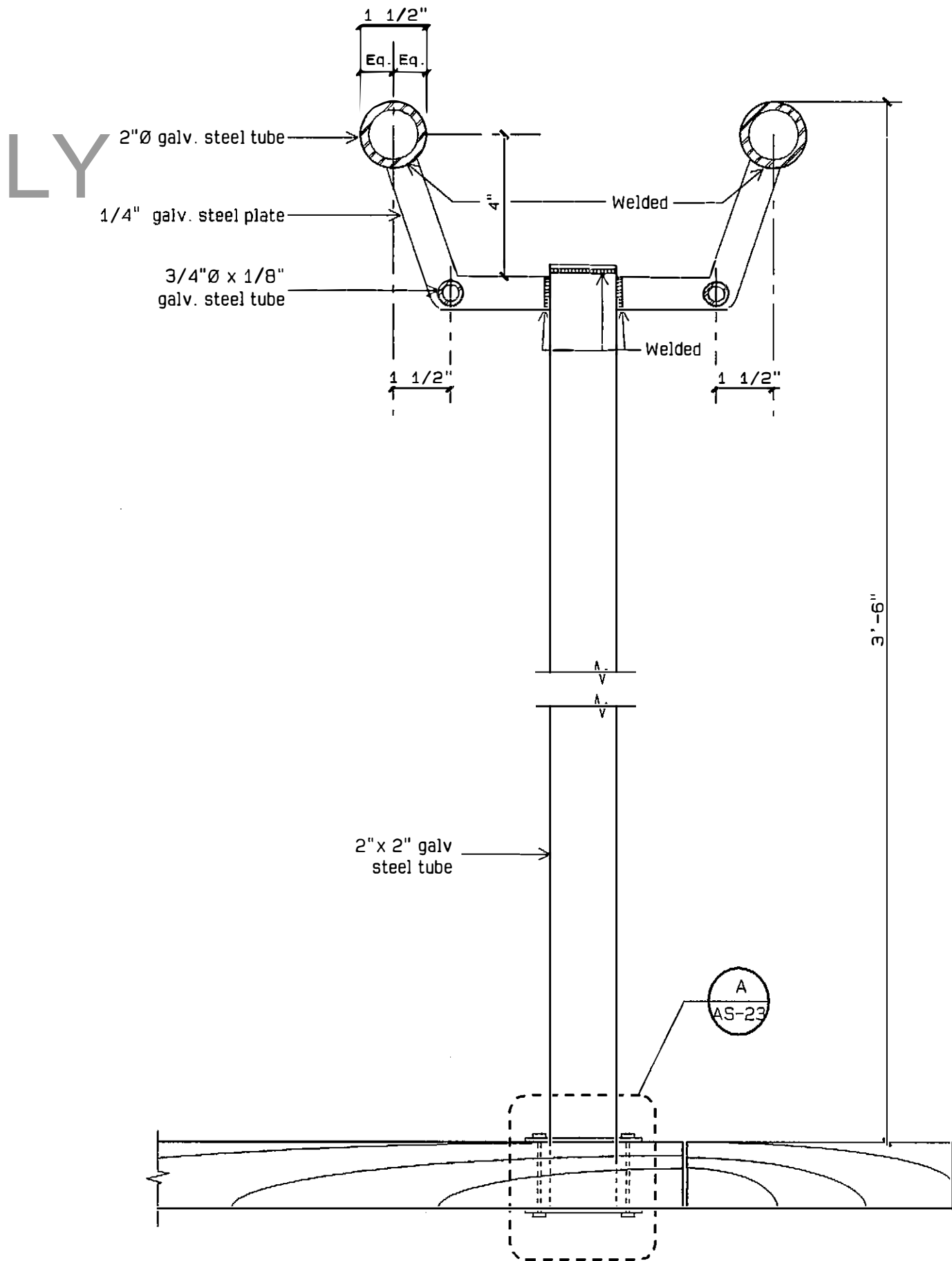
Dock Details
Site Plan (D)

AS
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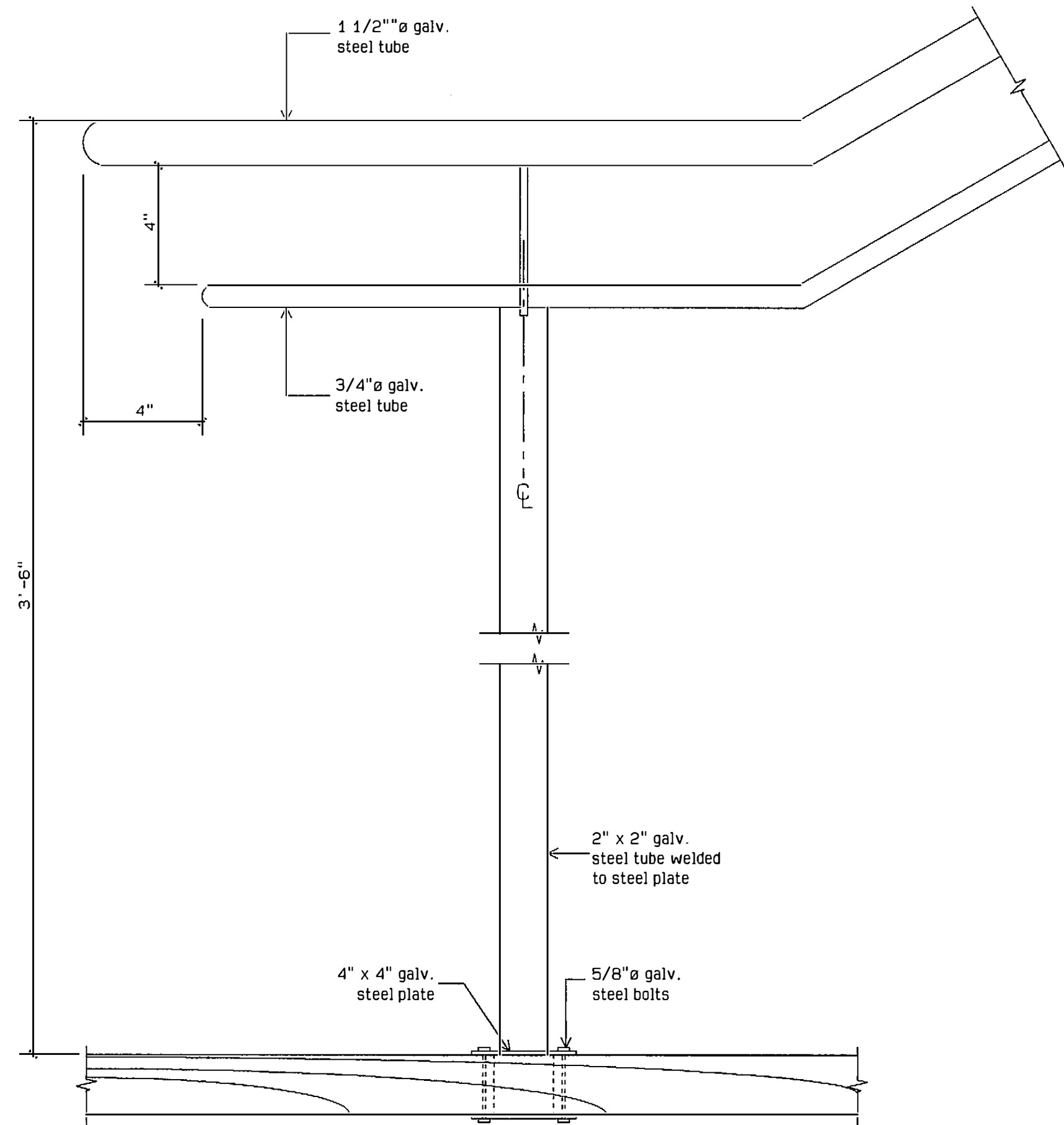
FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4839DR-PR



Handrail Detail 1
Scale: 3"=1'-0"

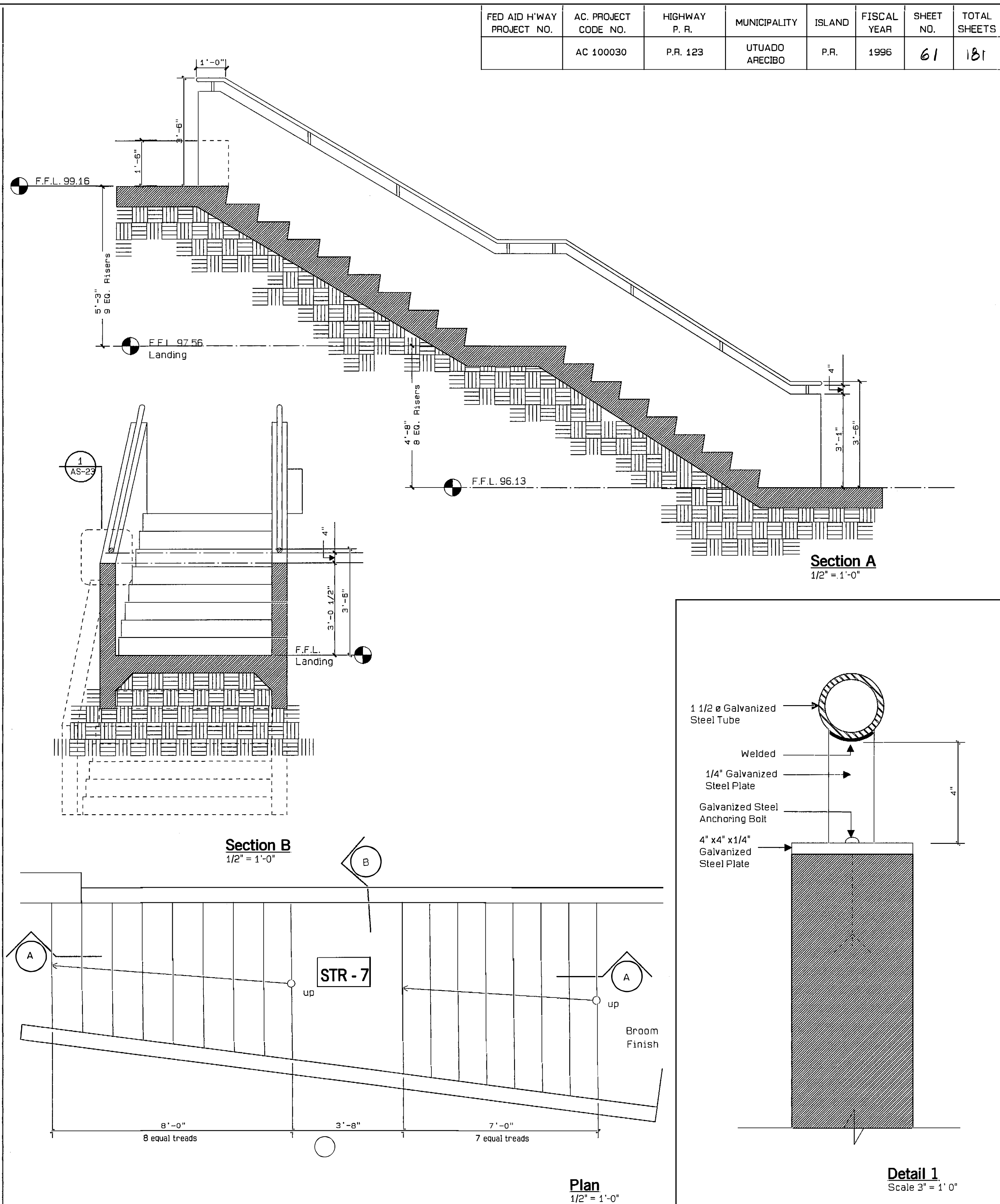


Handrail Detail 2
Scale: 3"=1'-0"



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DATE	REVISIONS

SCALE: AS SHOWN	Dock & Stair 7 Details Site Plan (D)	AS 23
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Event: 1339DR-PR

Road Gate Plan

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

Pedestrian Gate Plan

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

Gate Elevation - Detail 1

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

Top View Plan

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

Column - Plan

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

Section "A"

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

Detail "G"

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

Section "B"

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

Sectional View of Typical Installation - Fencing System

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

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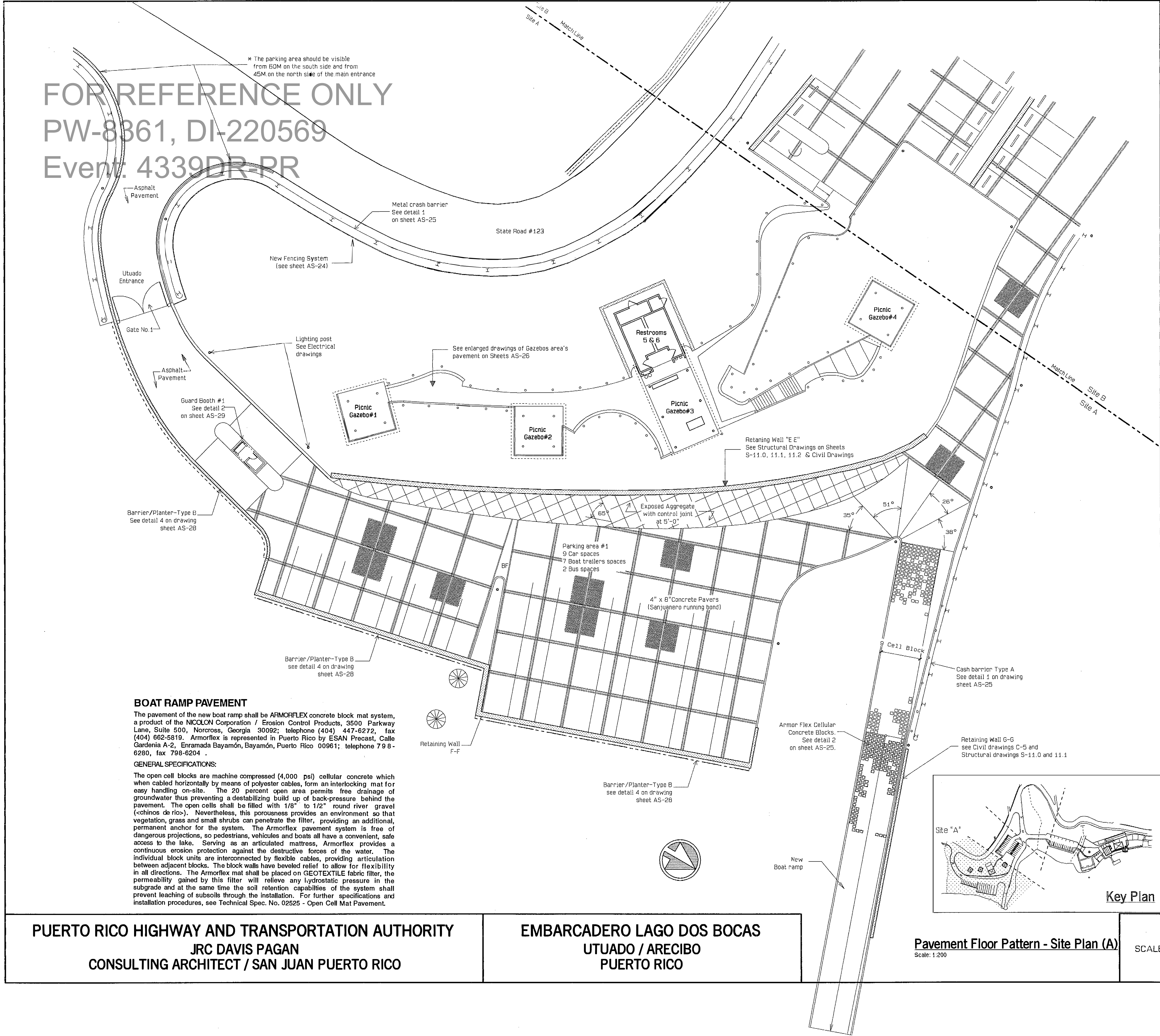
REVISIONS

SCALE: As shown

Entrance Gate Details
Site

AS

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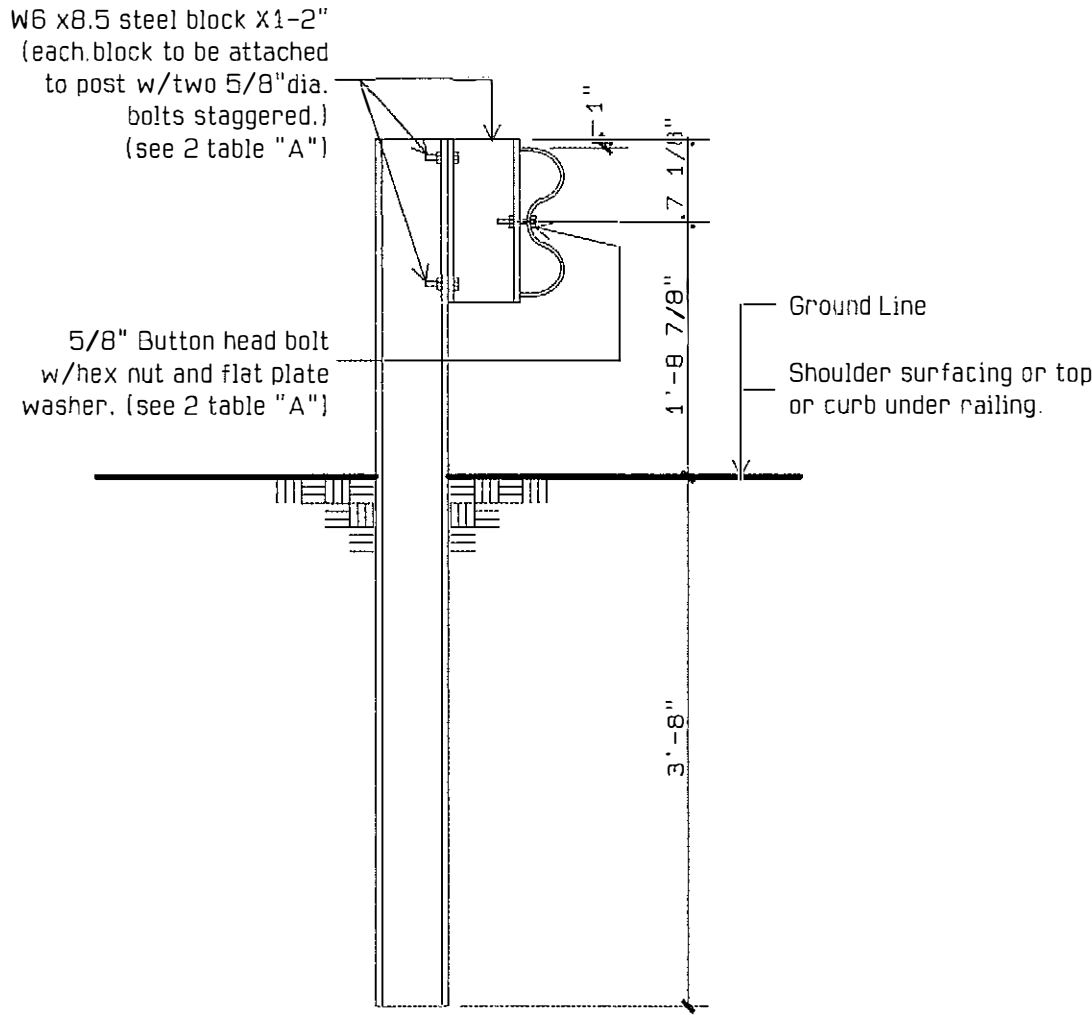


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BOAT RAMP PAVEMENT
The pavement of the new boat ramp shall be ARMORFLEX concrete block mat system, a product of the NICOLON Corporation / Erosion Control Products, 3500 Parkway Lane, Suite 500, Norcross, Georgia 30092; telephone (404) 447-6272, fax (404) 662-5919. Armorflex is represented in Puerto Rico by ESAN Precast, Calle Gardenia A-2, Enramada Bayamón, Bayamón, Puerto Rico 00961; telephone 798-6280, fax 798-6204.

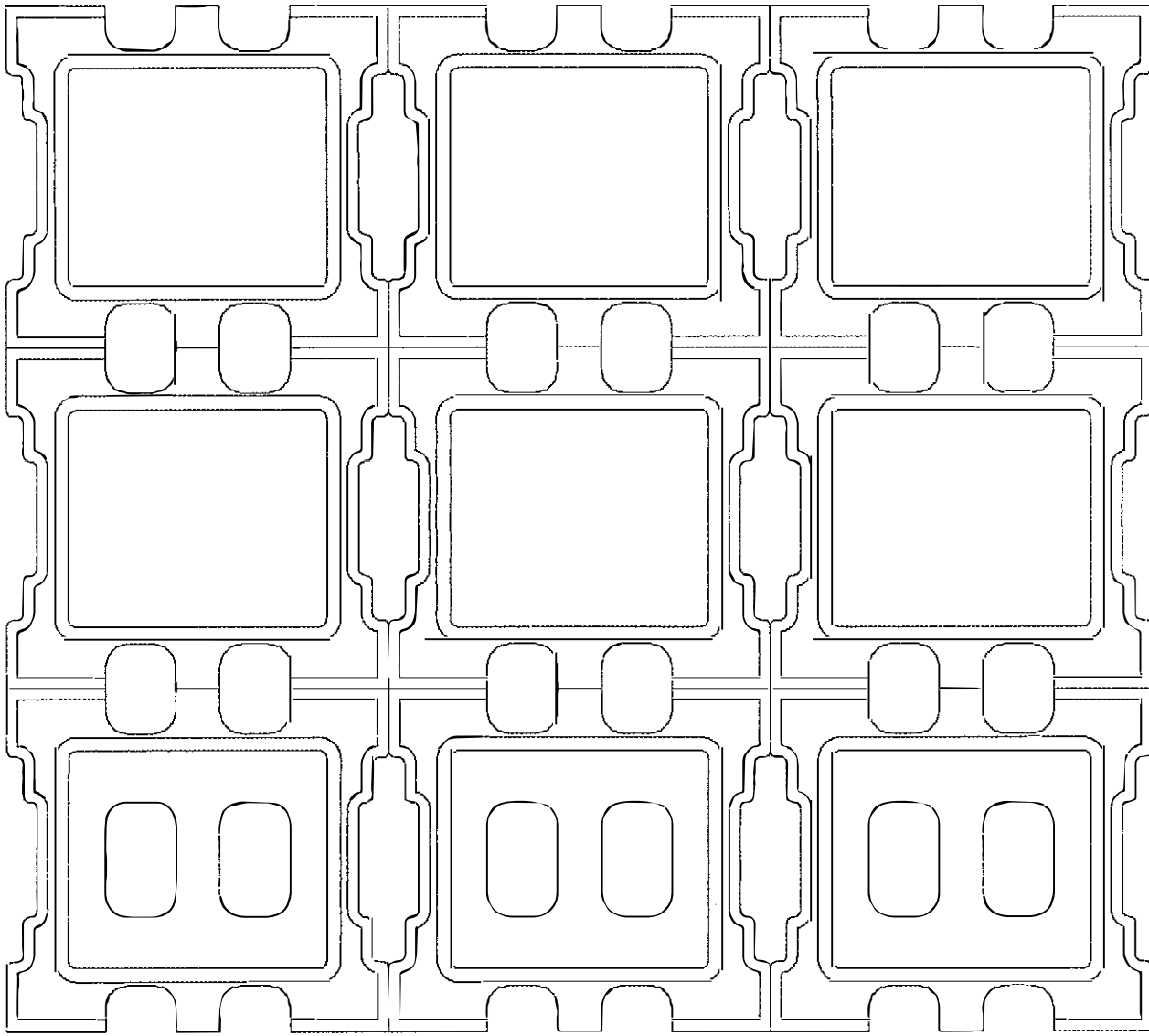
GENERAL SPECIFICATIONS:
The open cell blocks are machine compressed (4,000 psi) cellular concrete which when cabled horizontally by means of polyester cables, form an interlocking mat for easy handling on-site. The 20 percent open area permits free drainage of groundwater thus preventing a destabilizing build up of back-pressure behind the pavement. The open cells shall be filled with 1/8" to 1/2" round river gravel (<chinos de río>). Nevertheless, this porousness provides an environment so that vegetation, grass and small shrubs can penetrate the filter, providing an additional, permanent anchor for the system. The Armorflex pavement system is free of dangerous projections, so pedestrians, vehicles and boats all have a convenient, safe access to the lake. Serving as an articulated mattress, Armorflex provides a continuous erosion protection against the destructive forces of the water. The individual block units are interconnected by flexible cables, providing articulation between adjacent blocks. The block walls have beveled relief to allow for flexibility in all directions. The Armorflex mat shall be placed on GEOTEXTILE fabric filter, the permeability gained by this filter will relieve any hydrostatic pressure in the subgrade and at the same time the soil retention capabilities of the system shall prevent leaching of subsoils through the installation. For further specifications and installation procedures, see Technical Spec. No. 02525 - Open Cell Mat Pavement.

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Typical Beam Mounting - Type A
Scale: 3/4"=1'-0"

Detail 1



Armorflex - Cellular Concrete Blocks
Scale: 1 1/2"=1'-0"

The pavement of the new boat ramp shall be ARMORFLEX concrete block mat system. For material description see notes on this sheet and for detailed specifications see section 02525 - Open Cell Mat Pavement, in Technical Specification book.

Detail 2

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Pavement Floor Pattern - Site Plan (A)
Scale: 1:200

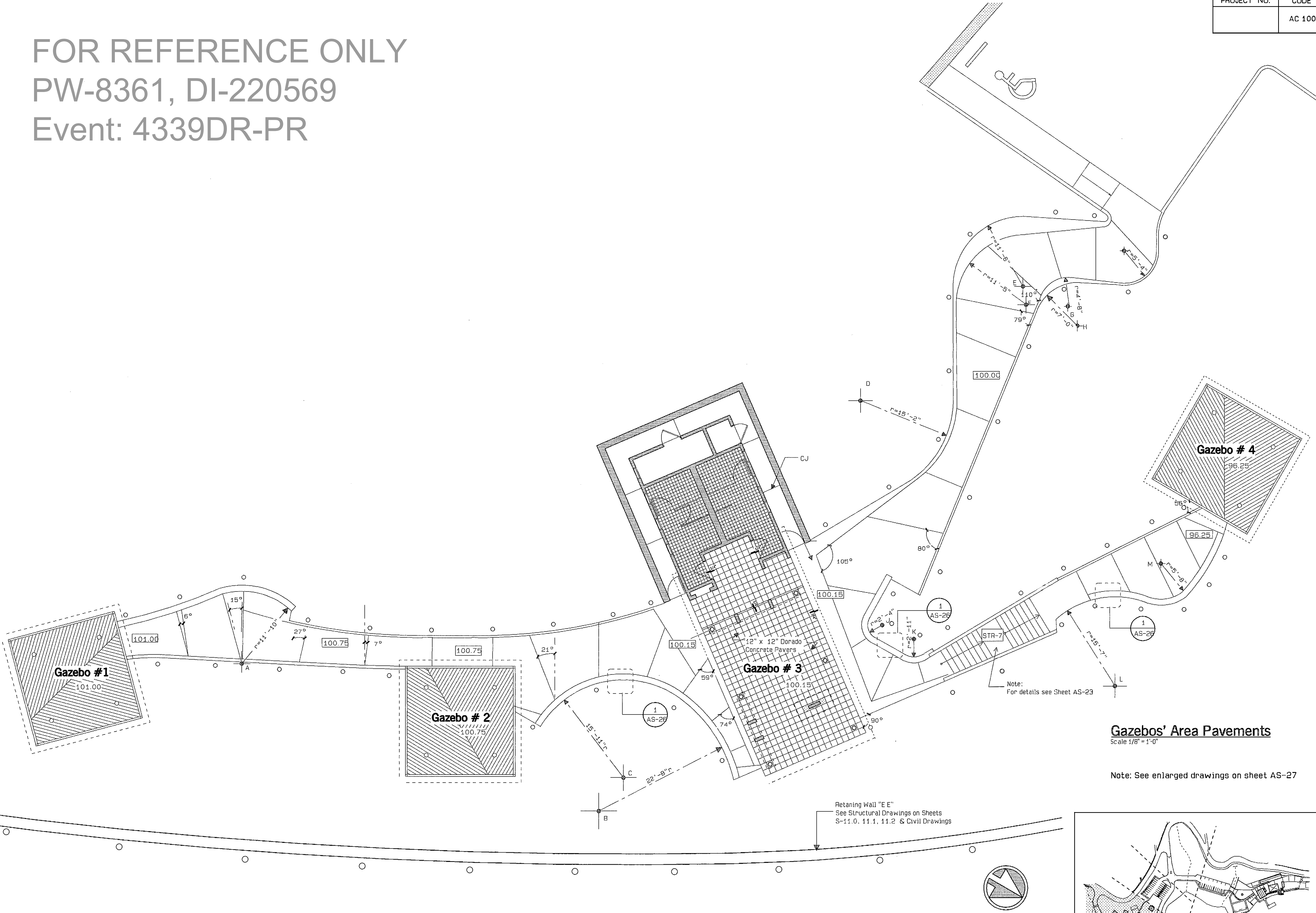
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Pavement Details
Site Plan (A)

AS
25

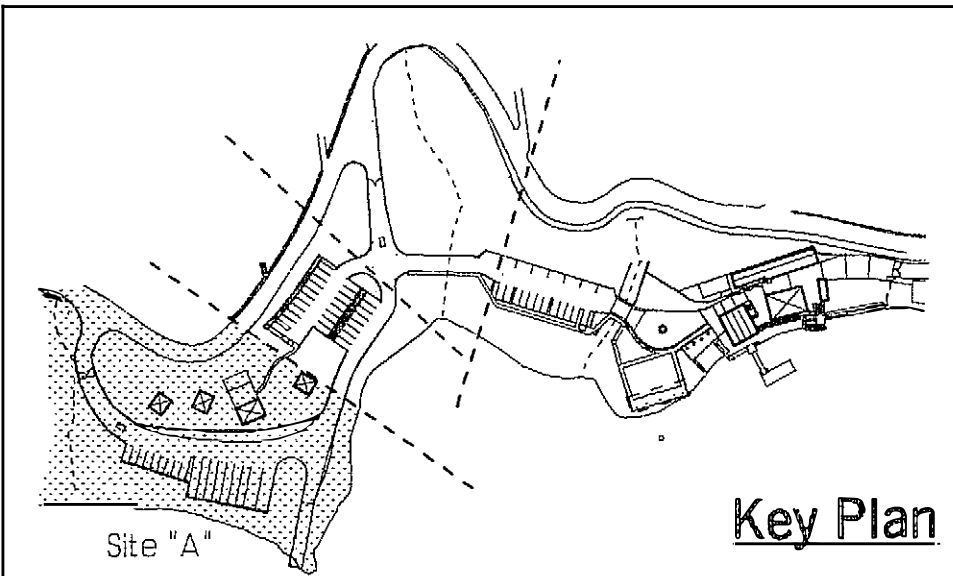
FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	64	181

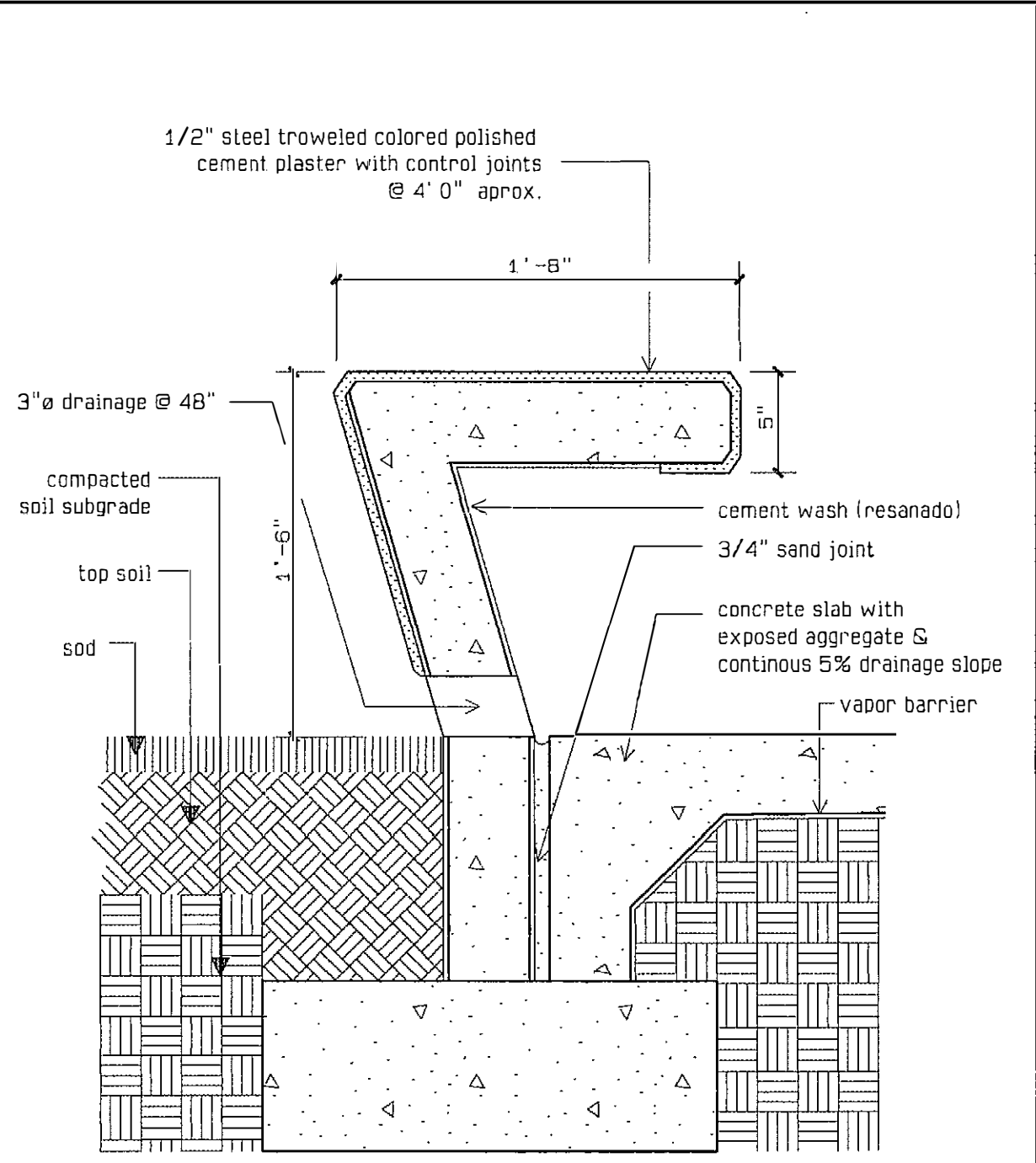


Gazebos' Area Pavements
Scale 1/8" = 1'-0"

Note: See enlarged drawings on sheet AS-27




Key Plan




Typical Bench Detail - 1
Scale 1 1/2" = 1'-0"

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY JRC DAVIS PAGAN CONSULTING ARCHITECT / SAN JUAN PUERTO RICO	EMBARCADERO LAGO DOS BOCAS UTUADO / ARECIBO PUERTO RICO	DATE	REVISIONS	As Shown	Floor Pavement & Details Gazebos' Area	AS 26

Key:

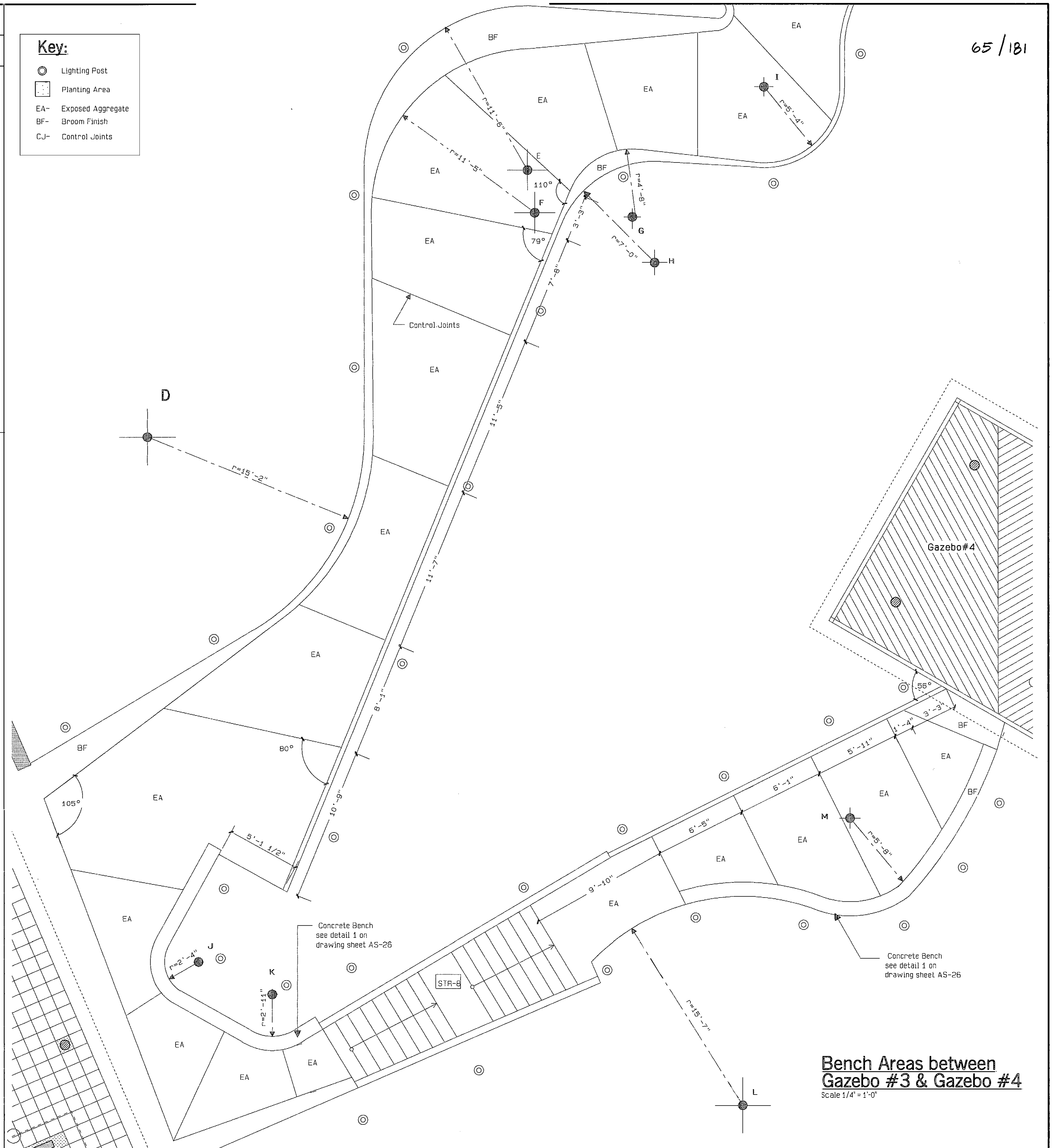
 Lighting Post

 Planting Area

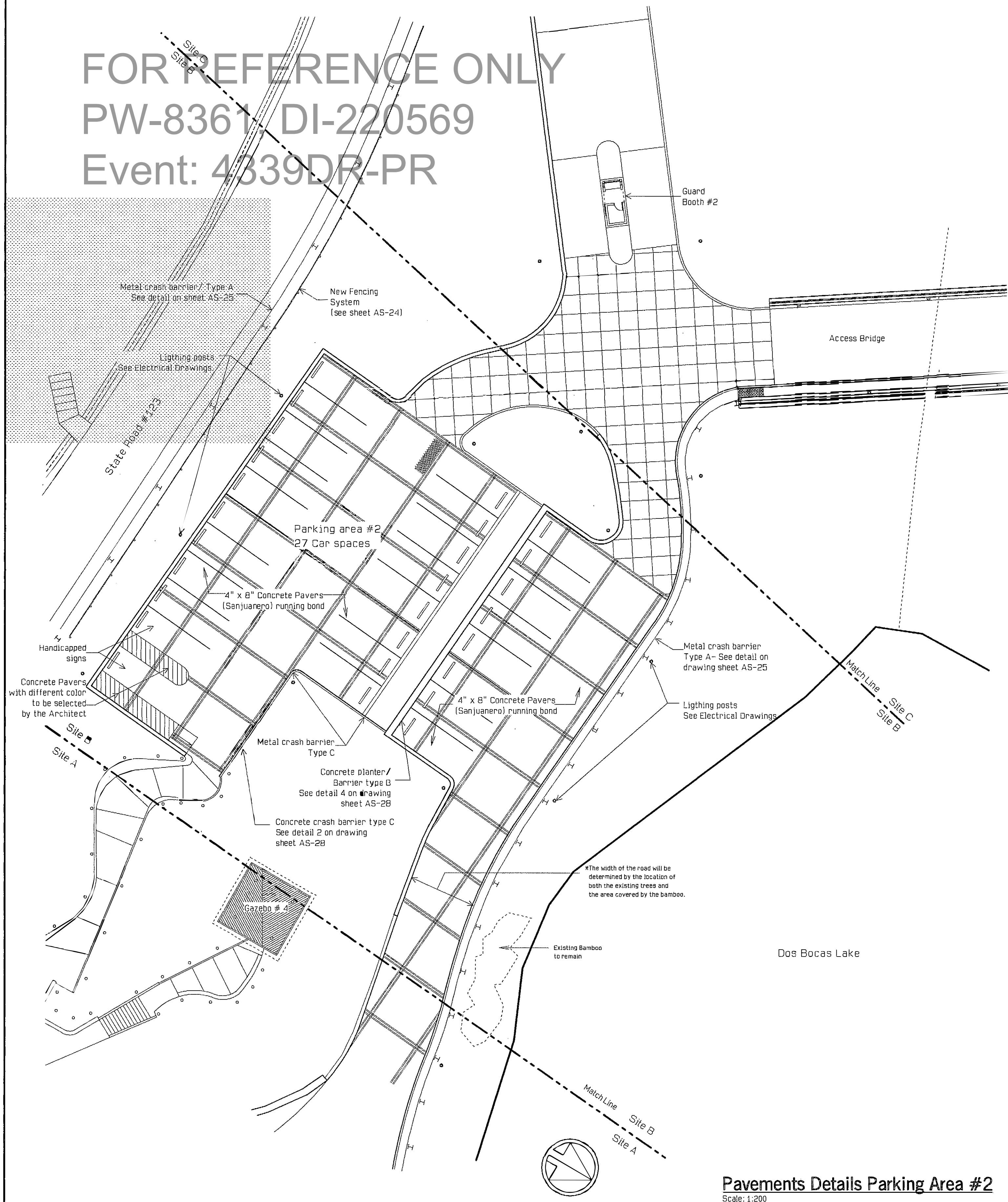
EA~ Exposed Aggregate

BF~ Broom Finish

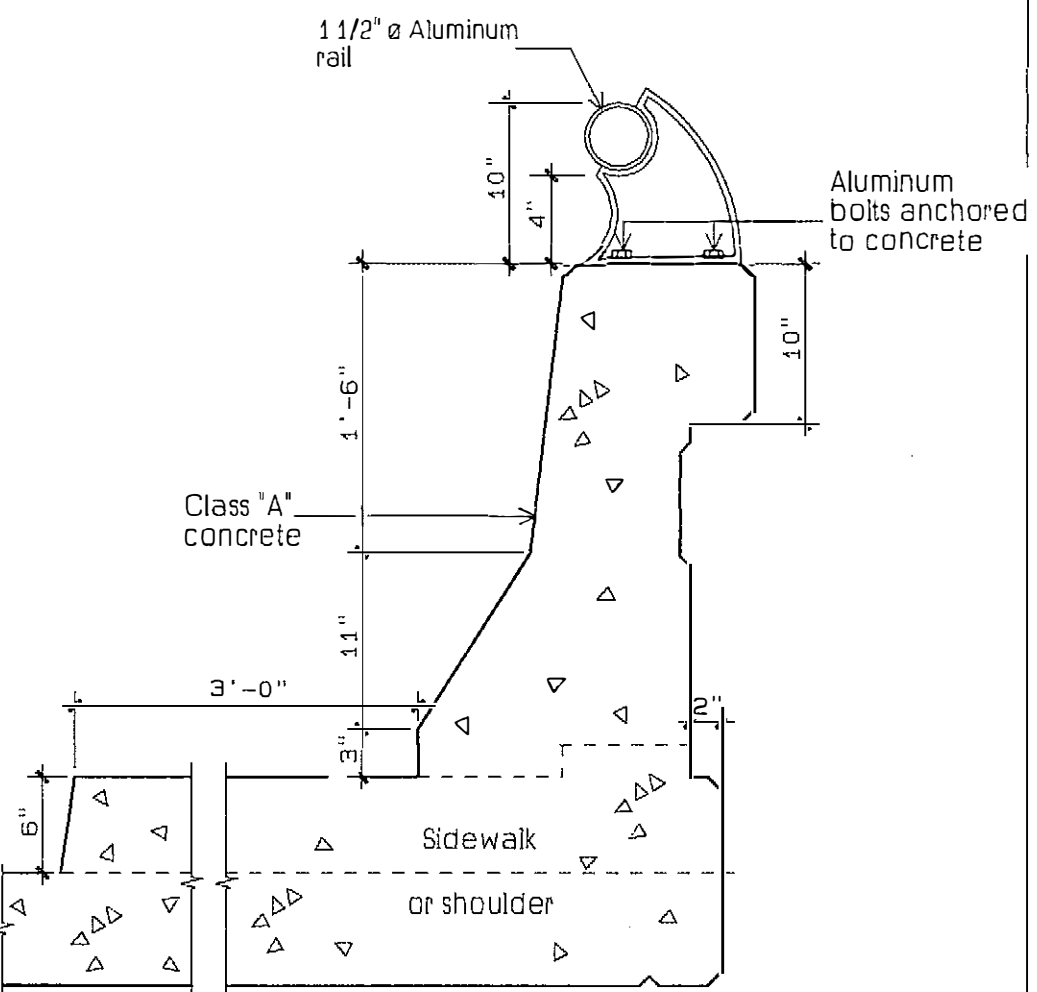
CJ~ Control Joints

[illegible][illegible]

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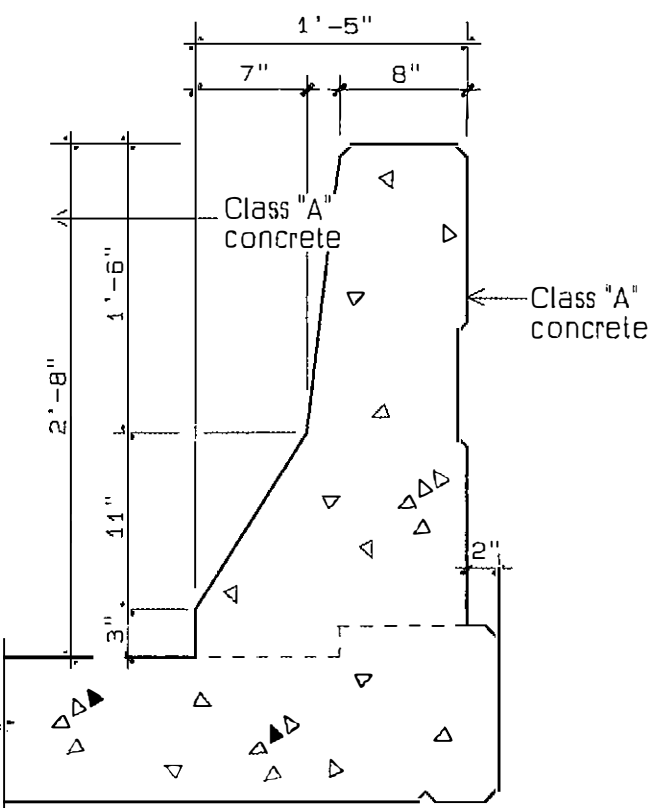


Pavements Details Parking Area #2
Scale: 1/200



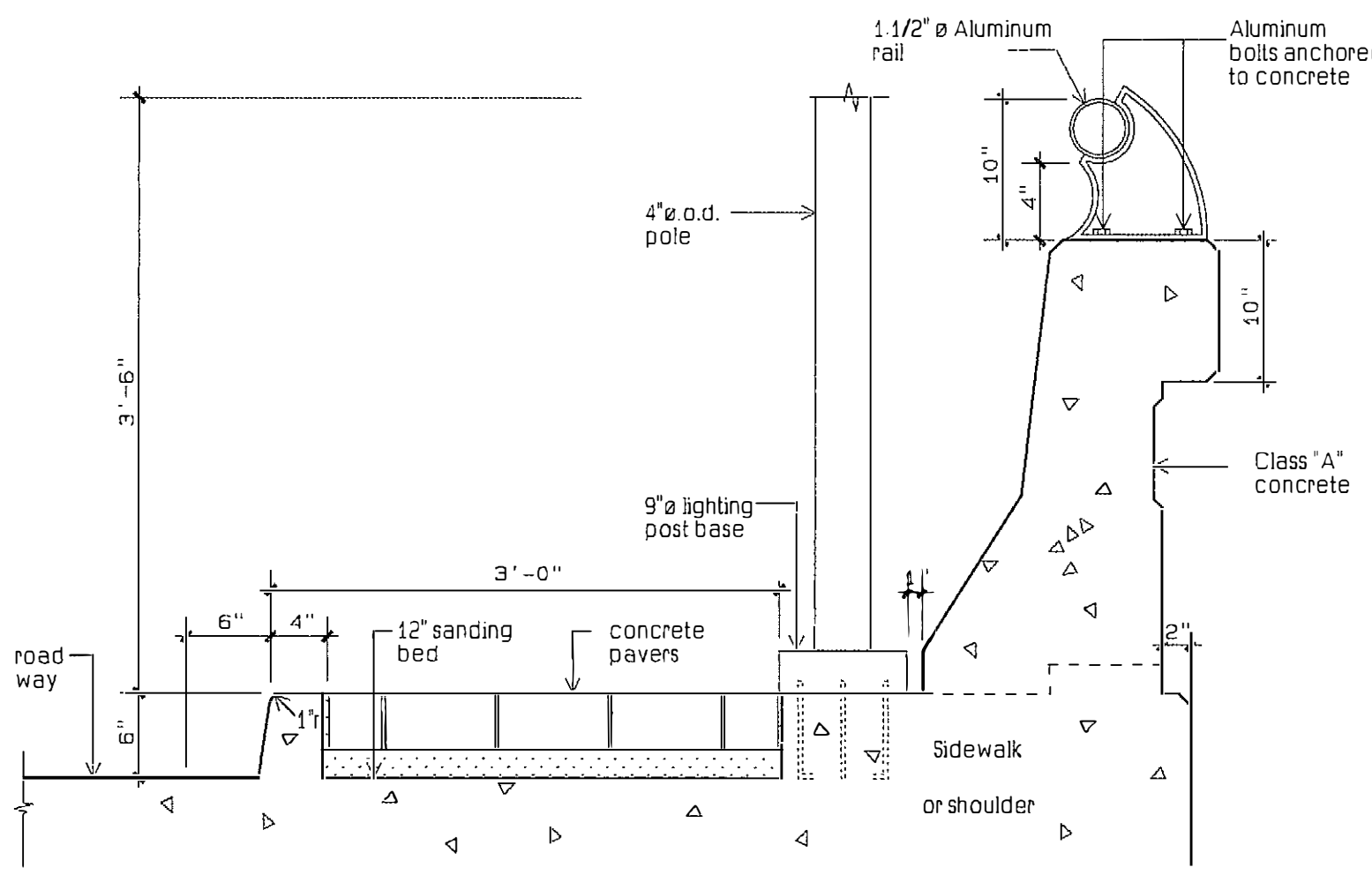
Combination Traffic and Pedestrian Typical Railing
Scale: 1"=1'-0"

Detail #1



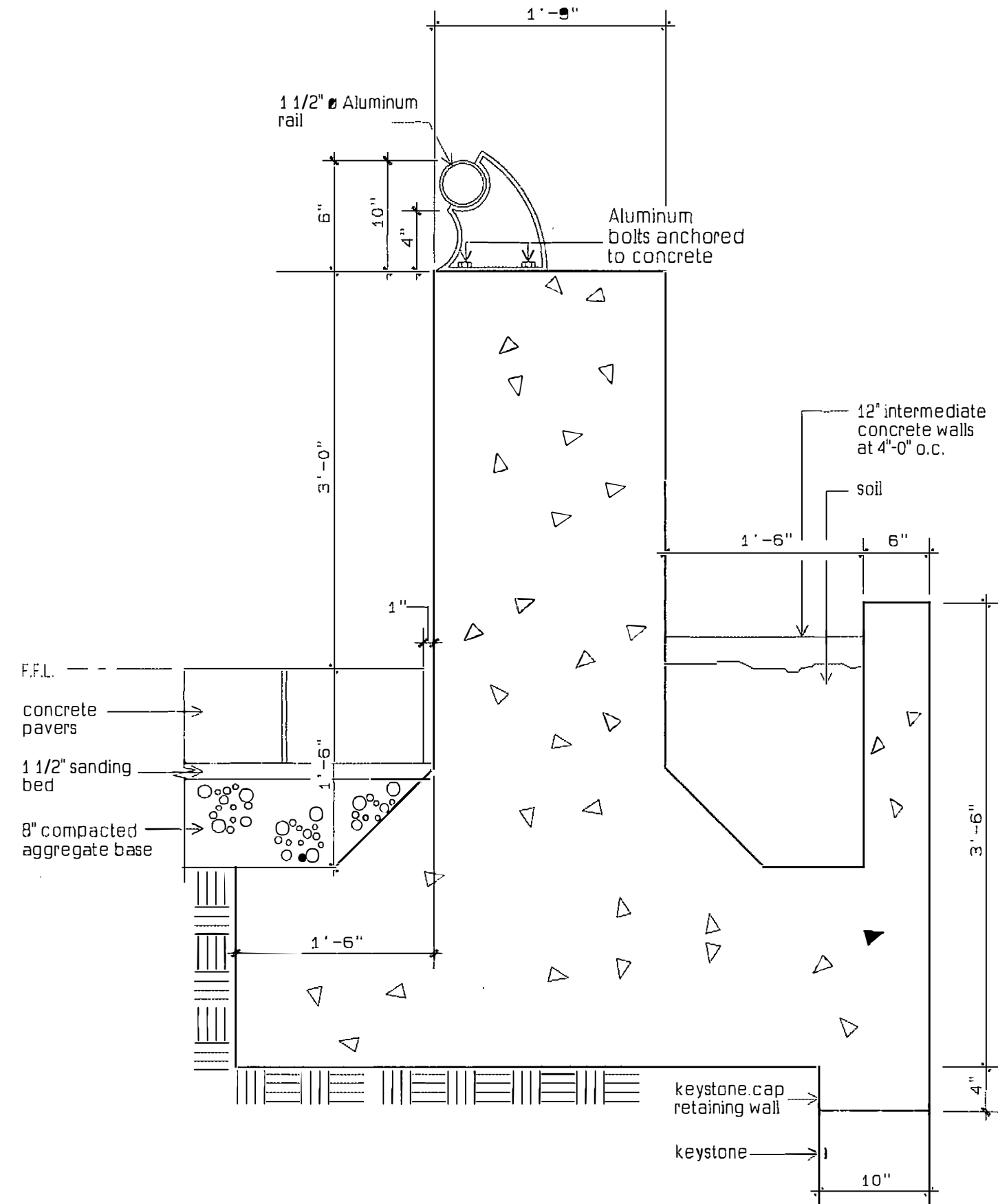
Traffic - No Sidewalk Typical Barrier - Type C
Scale: 1"=1'-0"

Detail #2



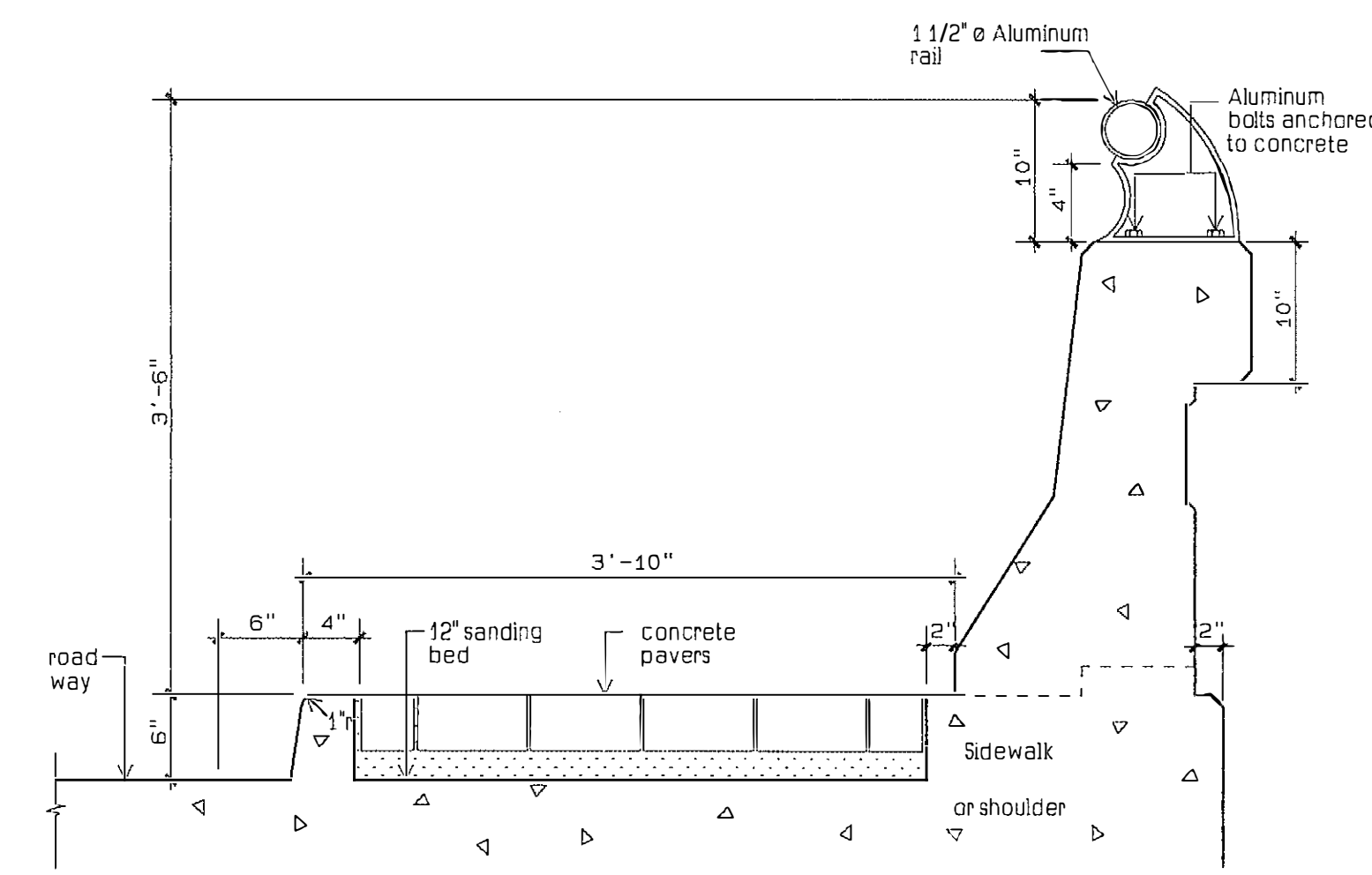
Bridge's Sidewalk Barrier at Lighting Post Location
Scale: 1"=1'-0"

Detail #3



Concrete Planter/ Barrier - Type B
Scale: 1"=1'-0"

Detail #4



Bridge's Sidewalk Barrier
Scale: 1"=1'-0"

Detail #5

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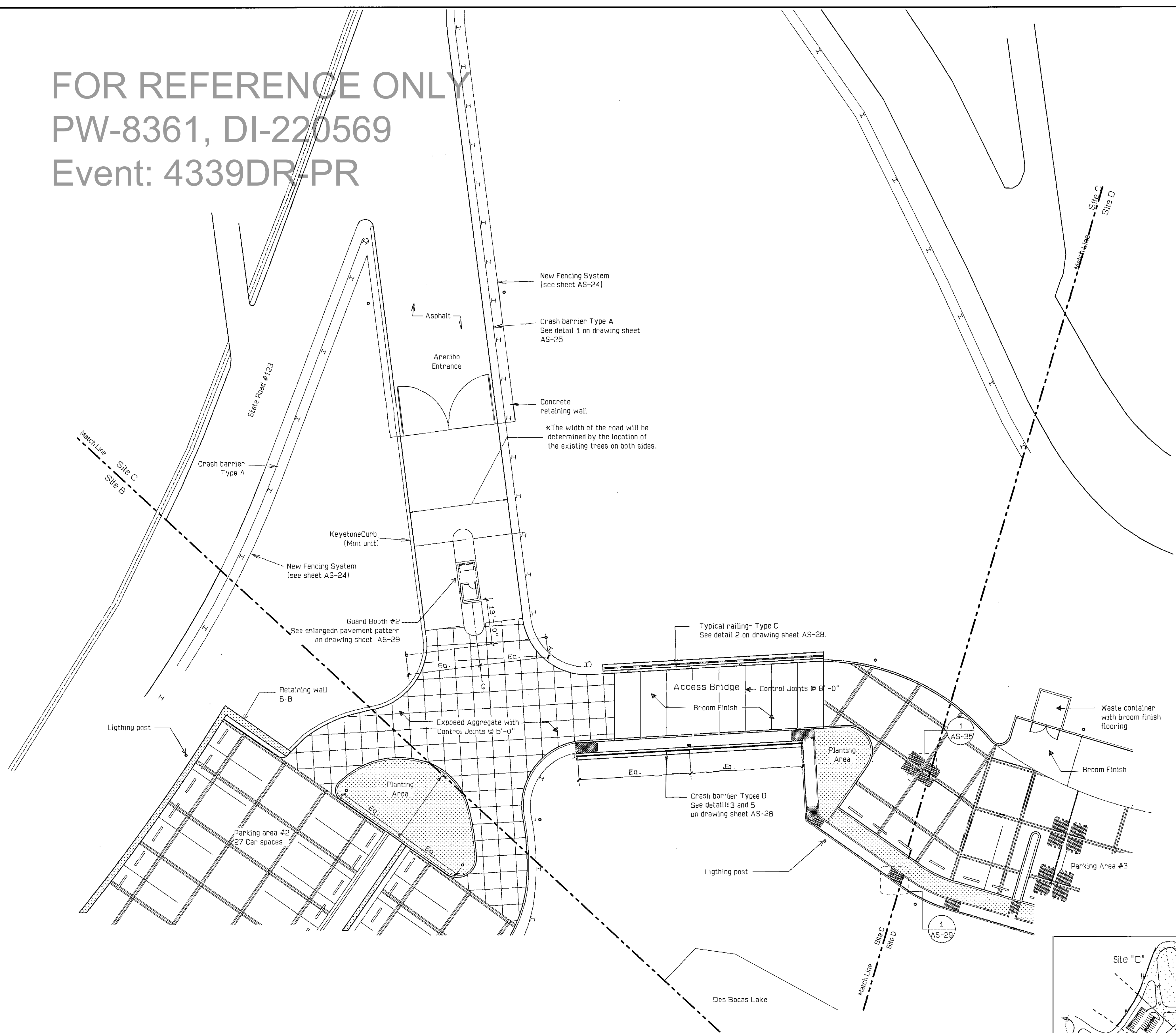
DATE	REVISIONS

SCALE: 1:200

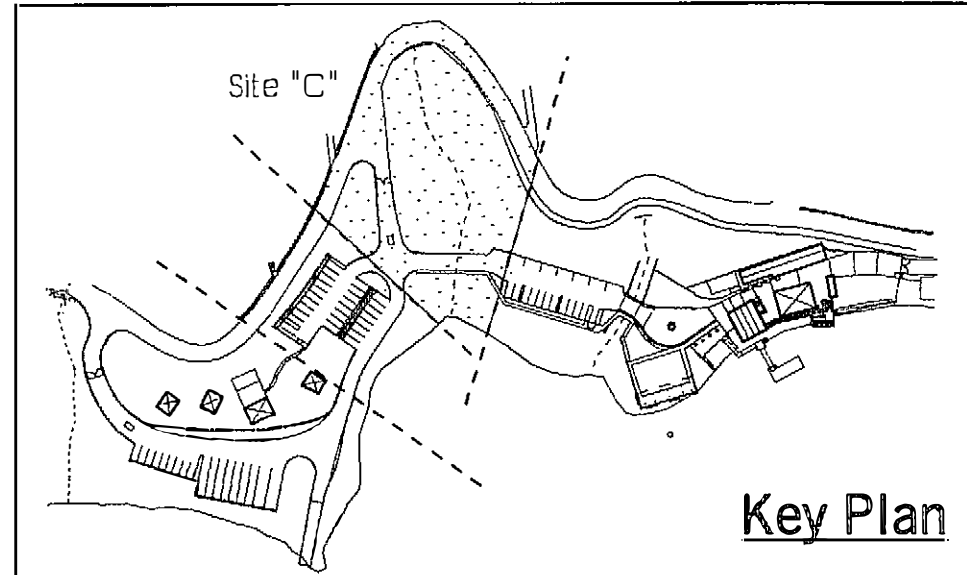
Pavements and Barrier Details
Parking Area #2

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28

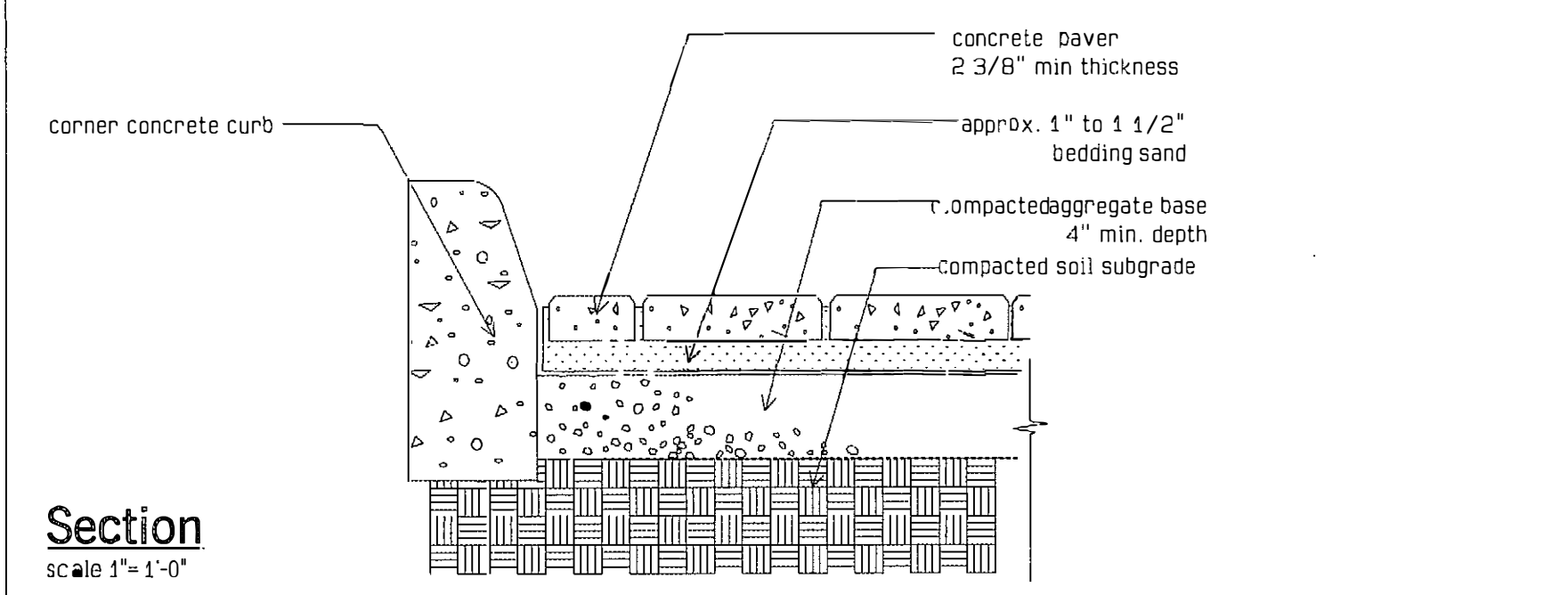
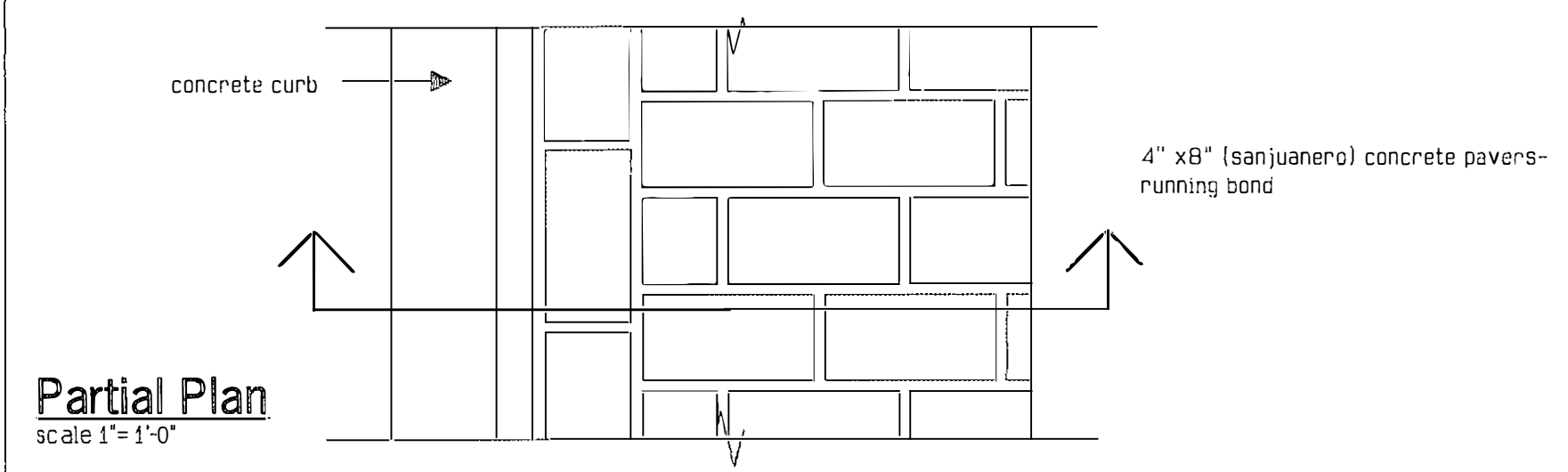
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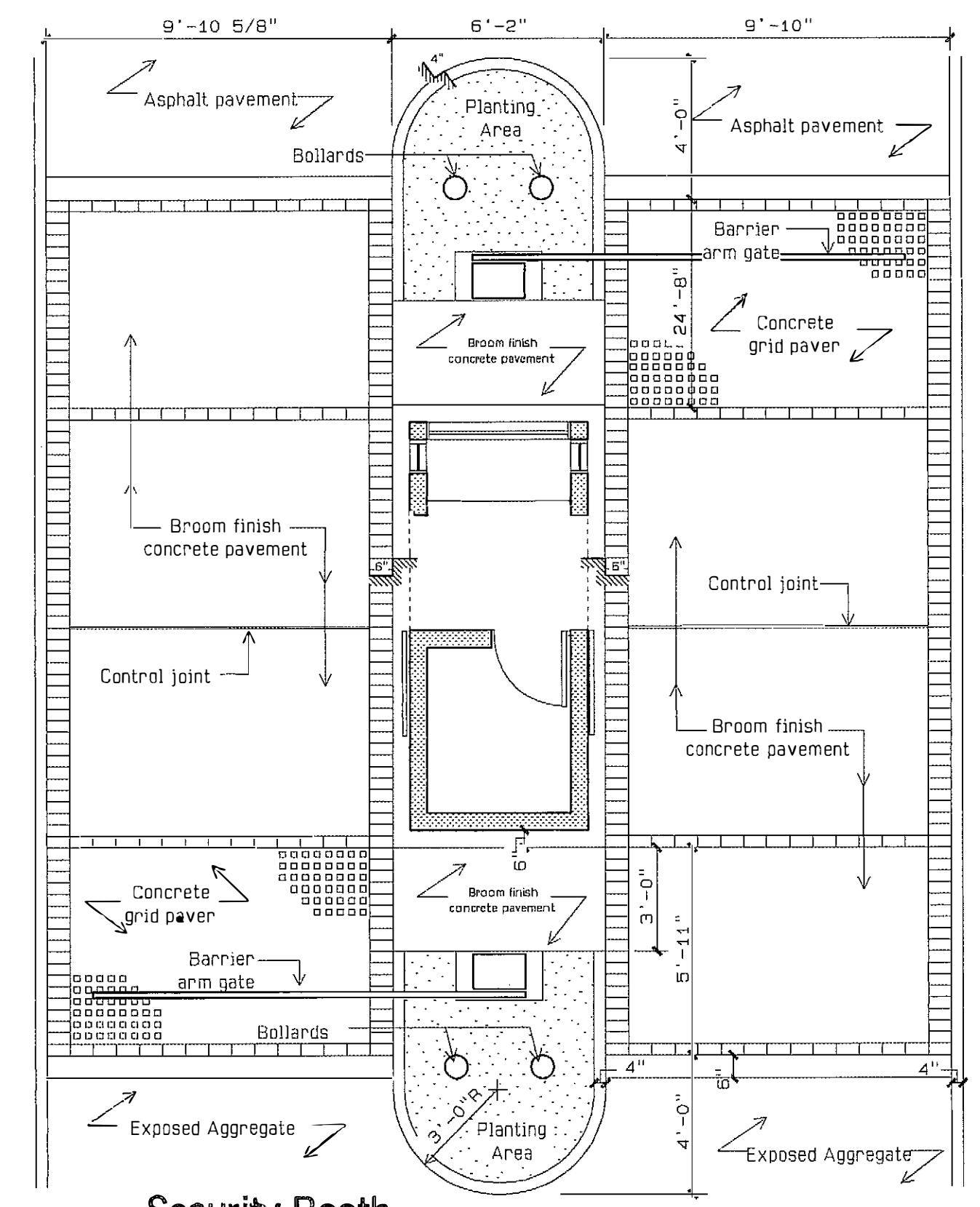
Site Plan (C)
Pavements Patterns
Scale: 1:200



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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	67	181

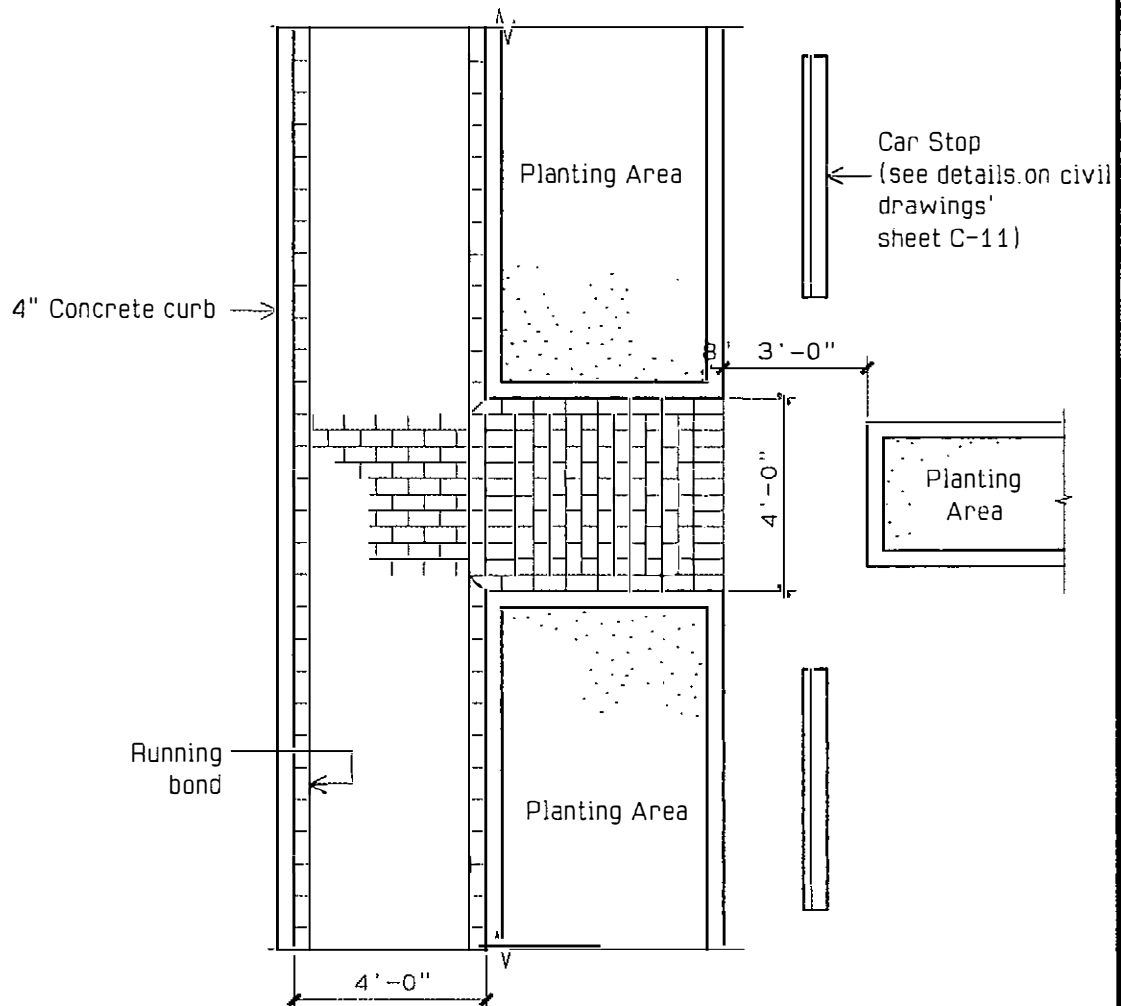
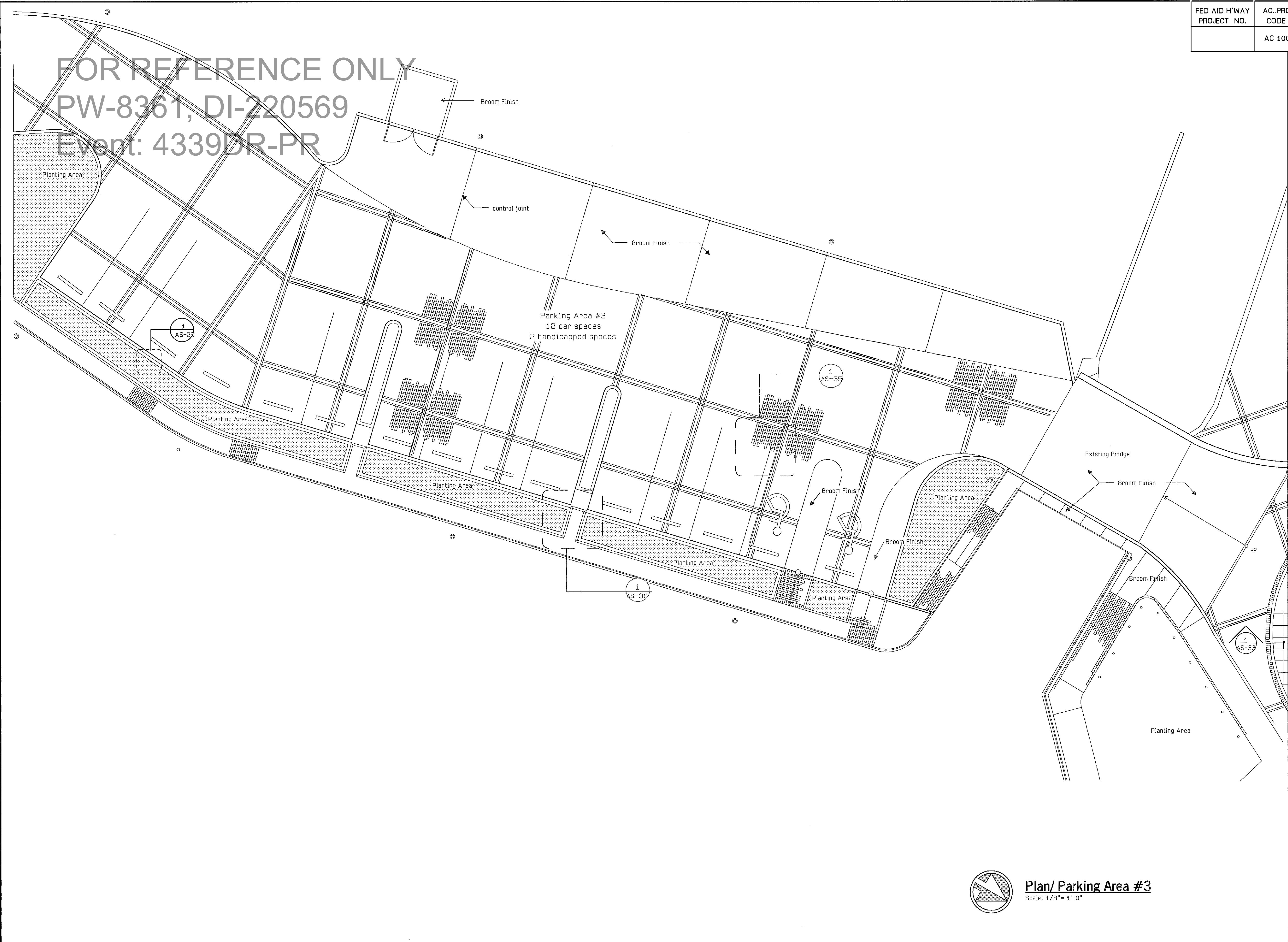


Detail 1
Scale: 1"=1'-0"

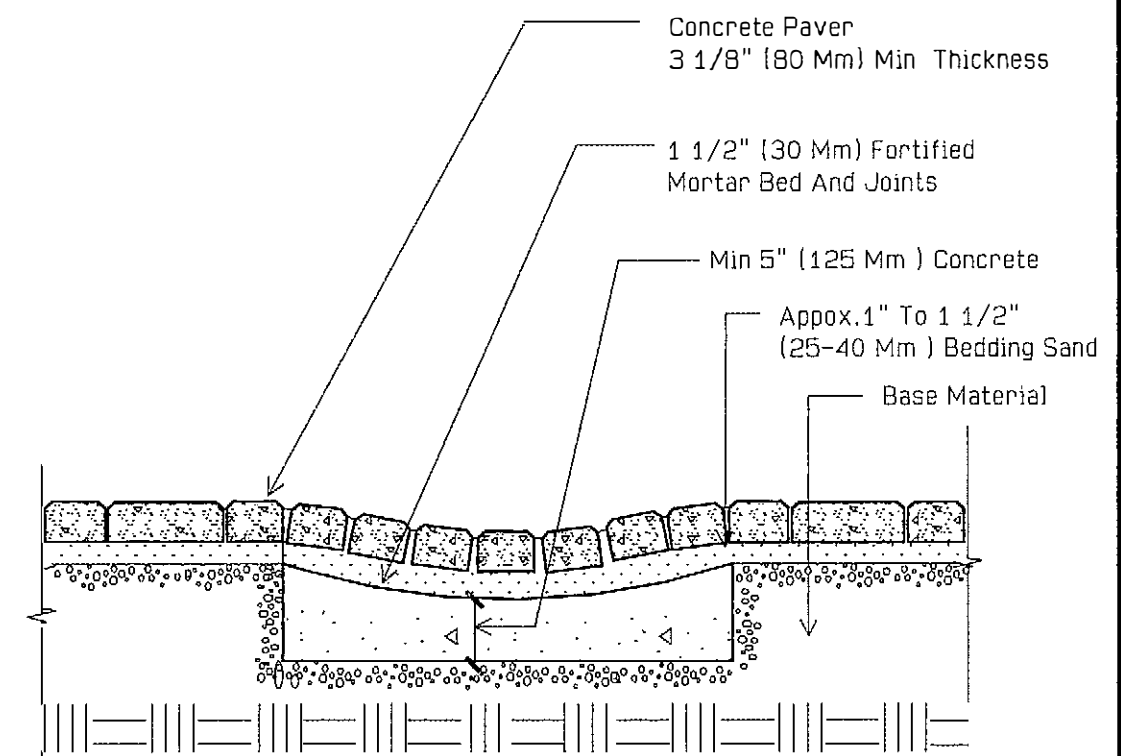


Detail 2

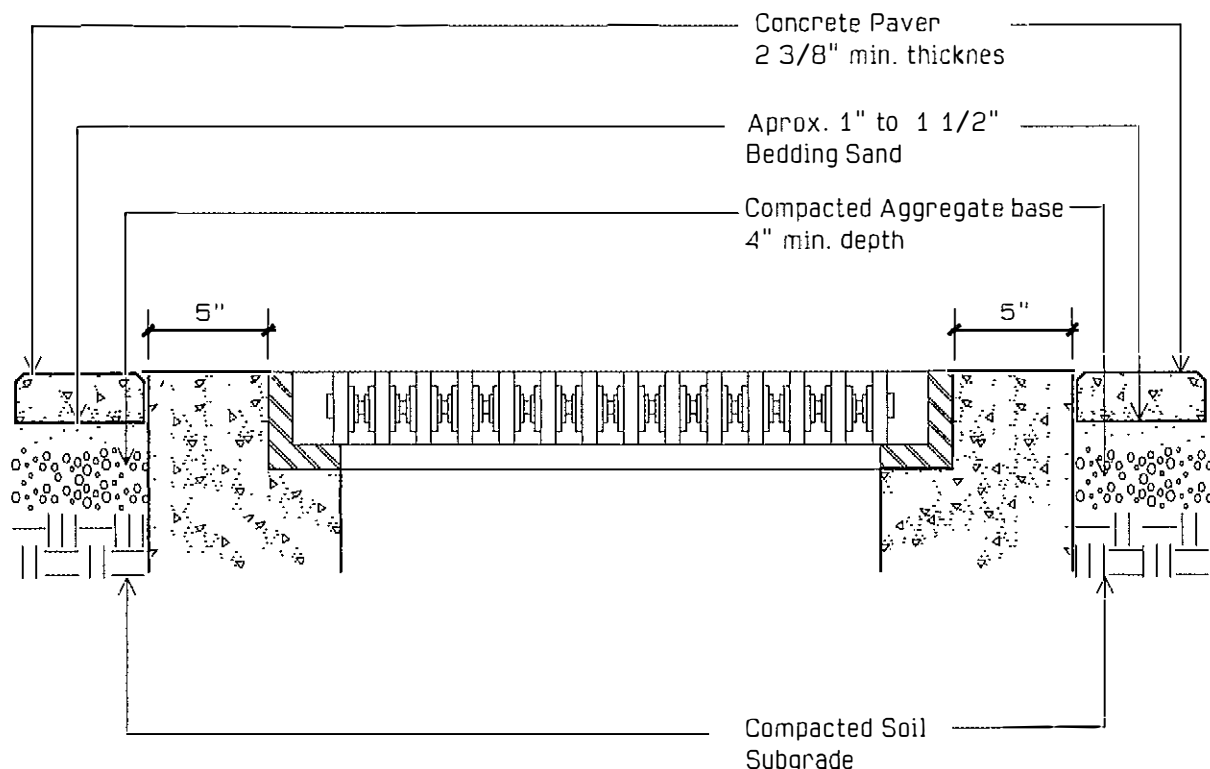
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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	68	181



Detail 1
Scale: 1/4" = 1'-0"

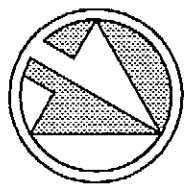


Detail 2
Scale: 1 1/2" = 1'-0"
Note: Drain May Be Necessary In Soil Subgrade.



Detail 3 Pavement section at Inlet, Typical
Scale: 1 1/2" = 1'-0"

Note: For Inlet dimensions and specifications refer to civil drawings on sheet C-14



Plan/ Parking Area #3
Scale: 1/8" = 1'-0"

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PUERTO RICO

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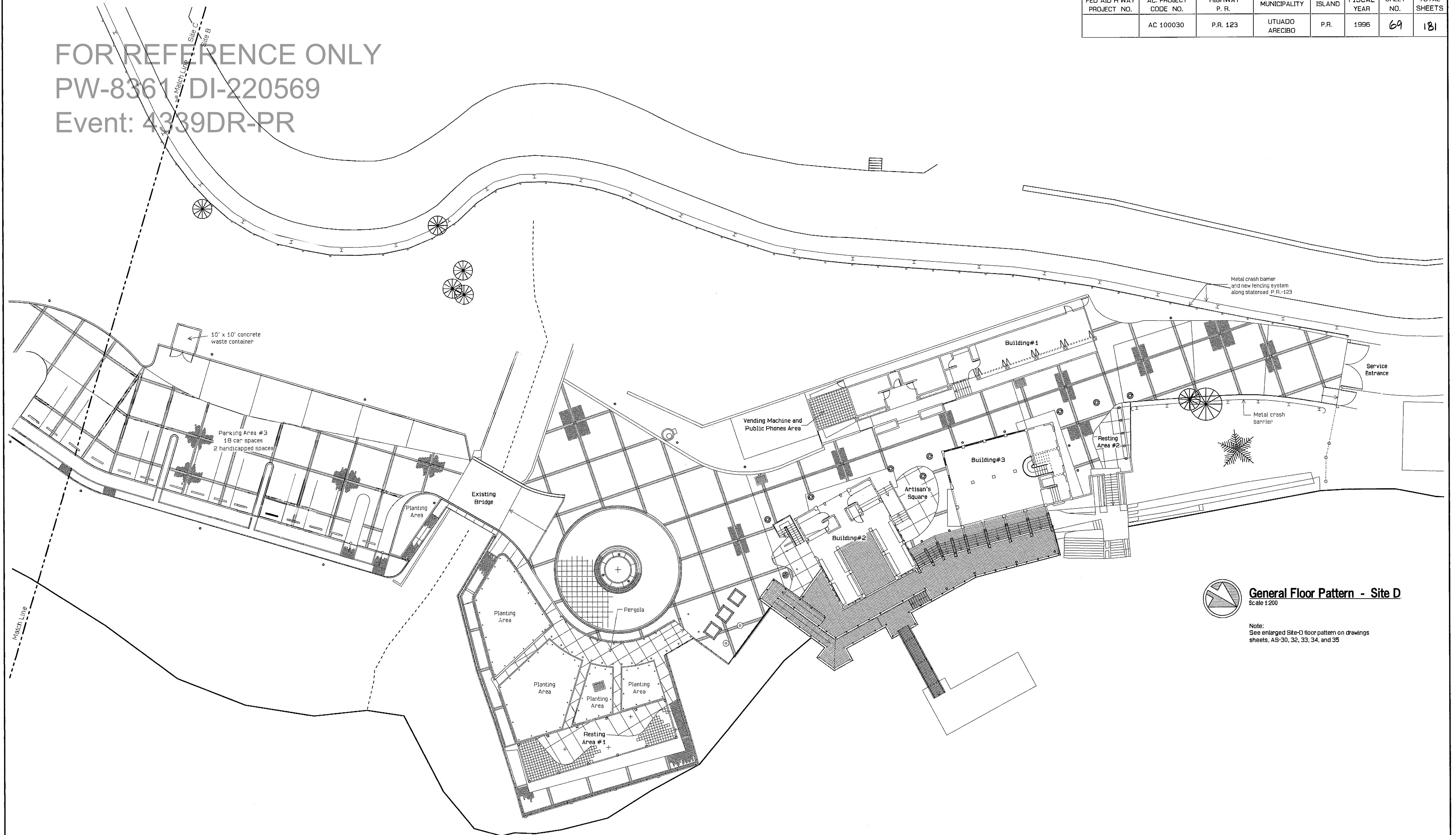
SCALE: As Shown

Pavements Details
Parking Area # 3

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30

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 **General Floor Pattern - Site D**
Scale 1:200

Note:
See enlarged Site-D floor pattern on drawings
sheets, AS-30, 32, 33, 34, and 35

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DATE	REVISIONS

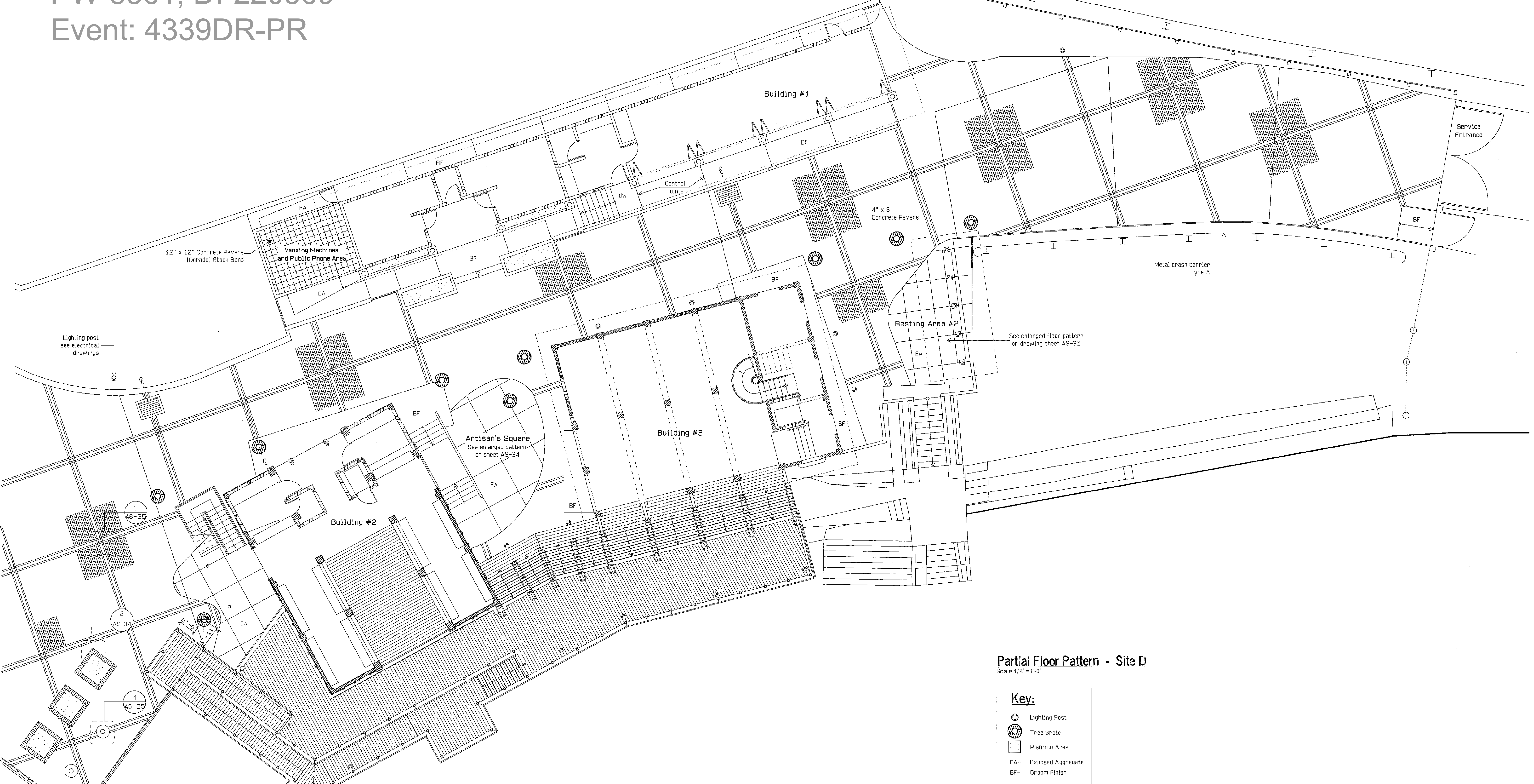
SCALE: 1:400

General Floor Pattern
Site D

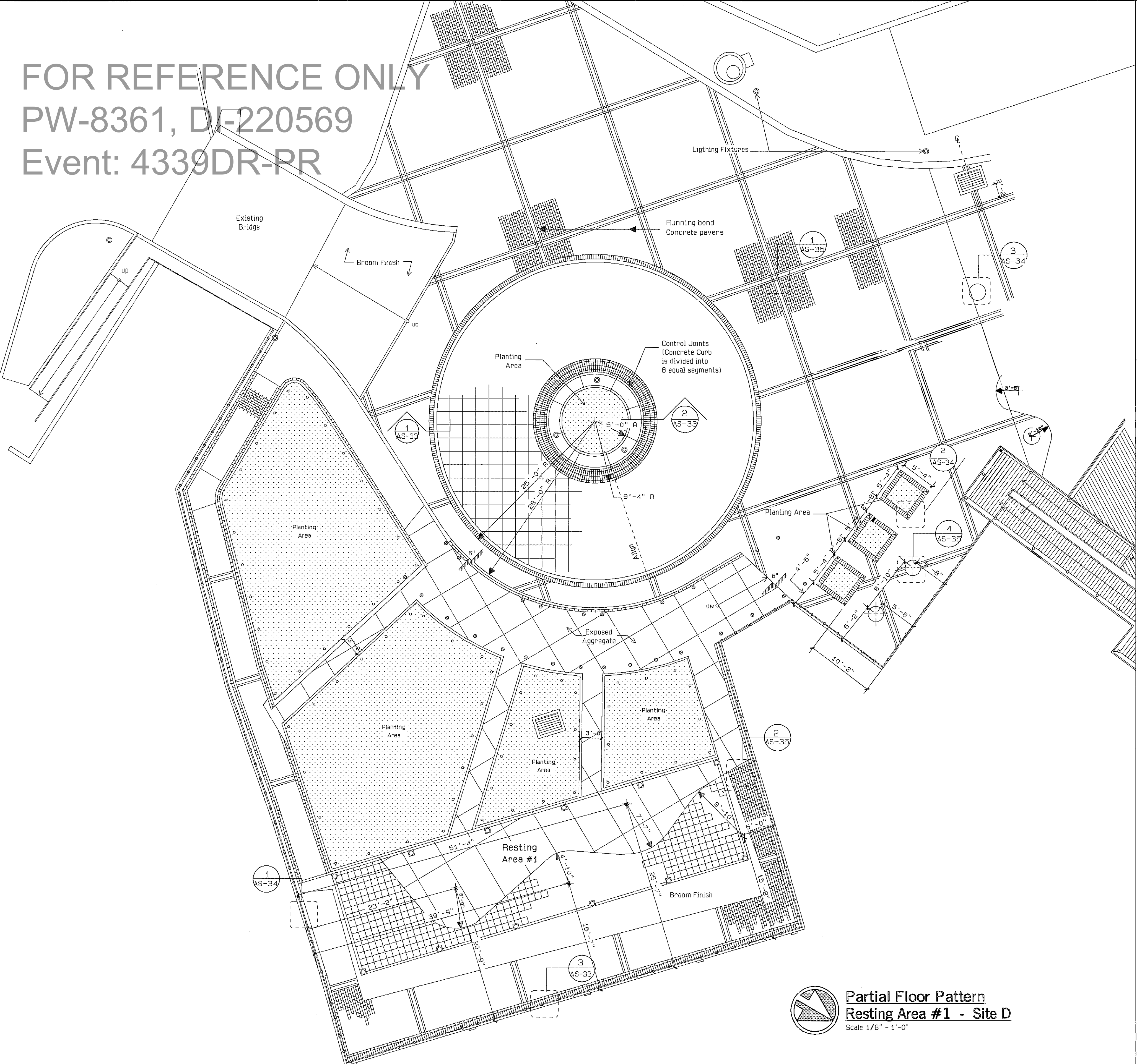
AS
31

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FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	70	181

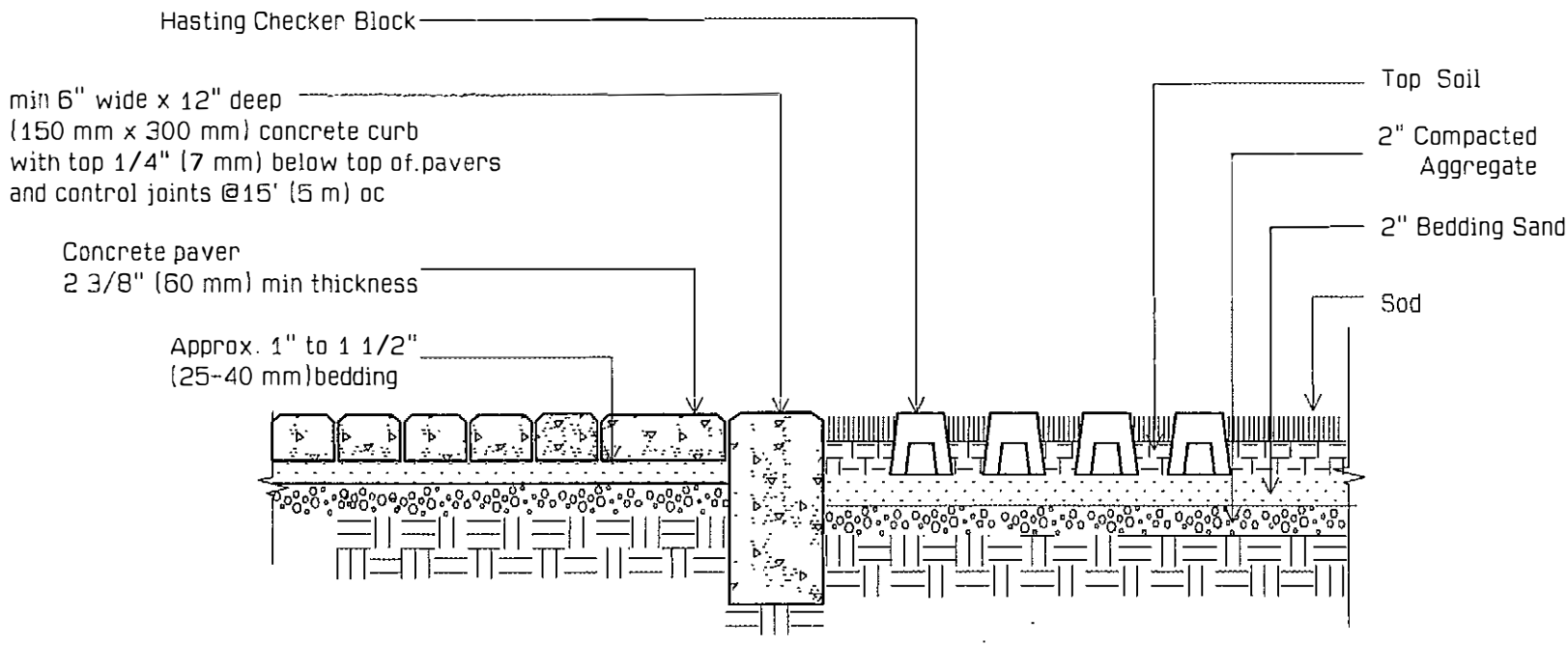


FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

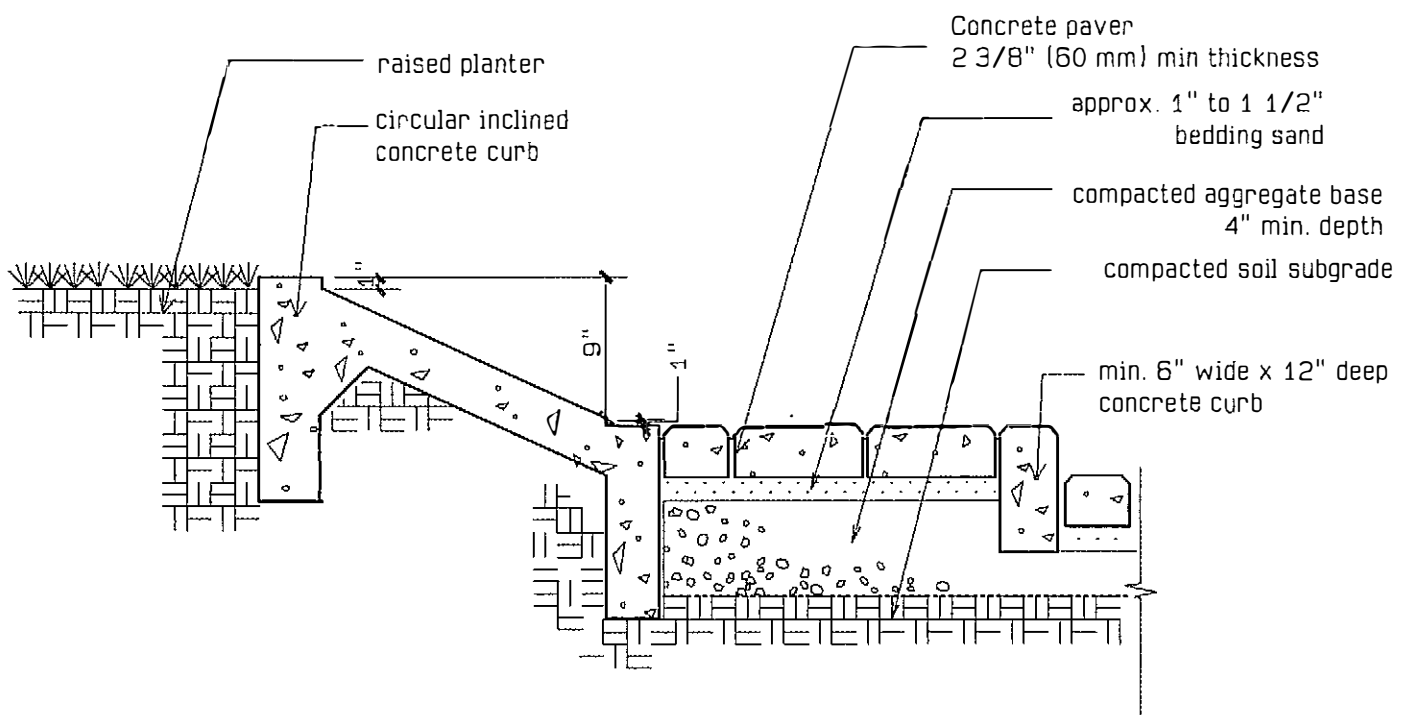


Partial Floor Pattern
Resting Area #1 - Site D
Scale 1/8" = 1'-0"

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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	71	181

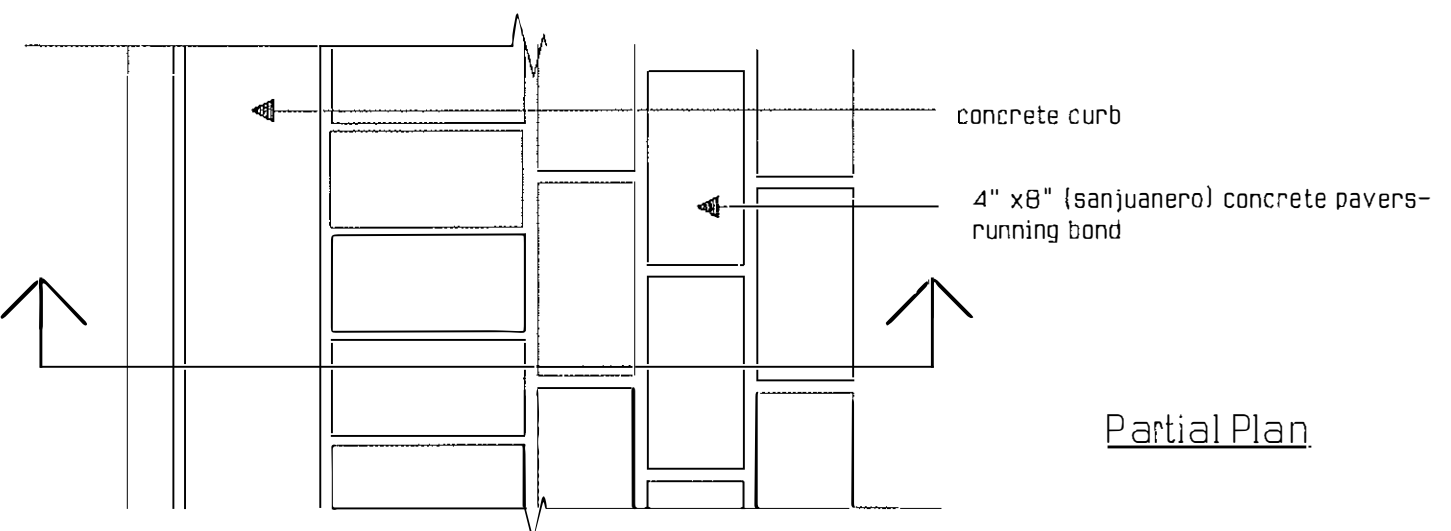


Detail 1
Scale: 1"=1'-0"

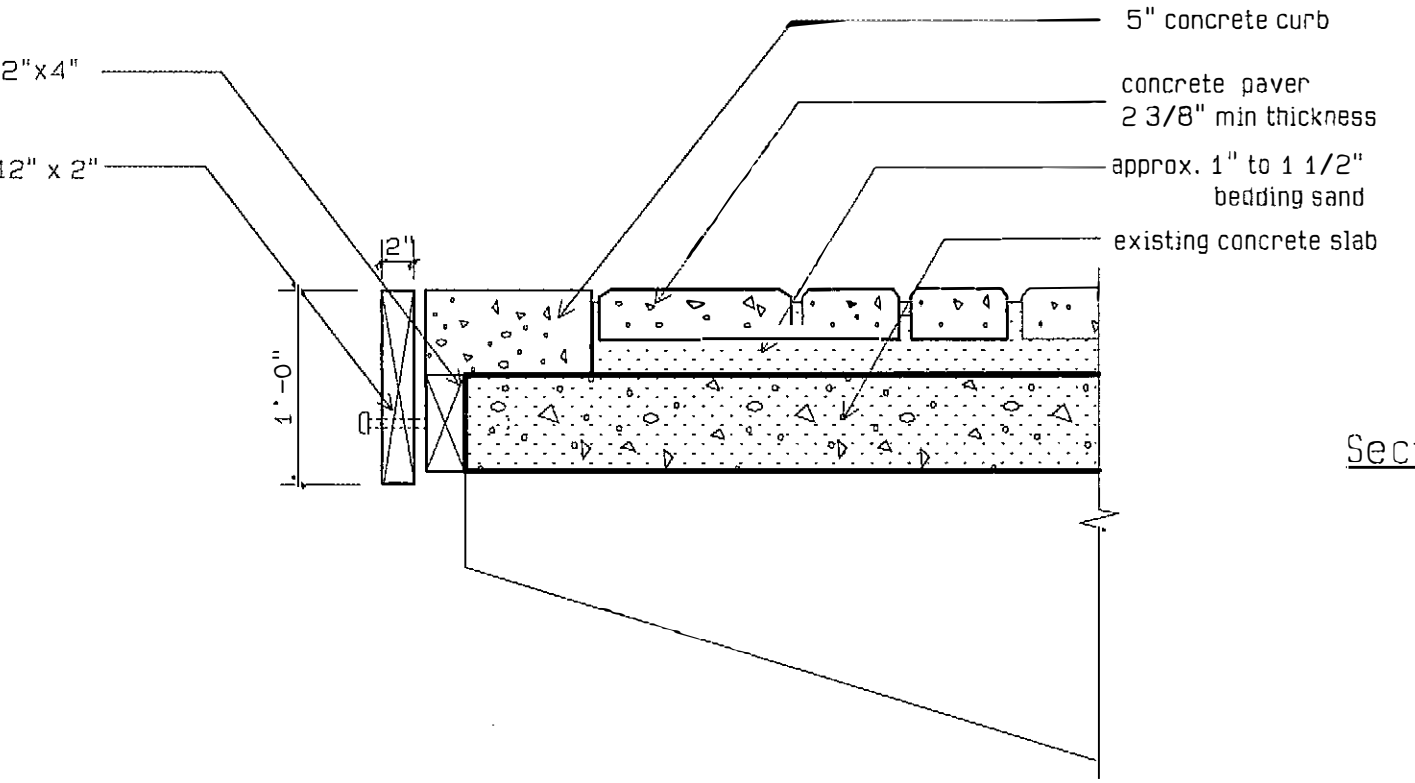


Section 2
Scale: 1"=1'-0"

Detail 2
Scale: 1"=1'-0"



Partial Plan



Section

Detail 3
Scale: 1"=1'-0"

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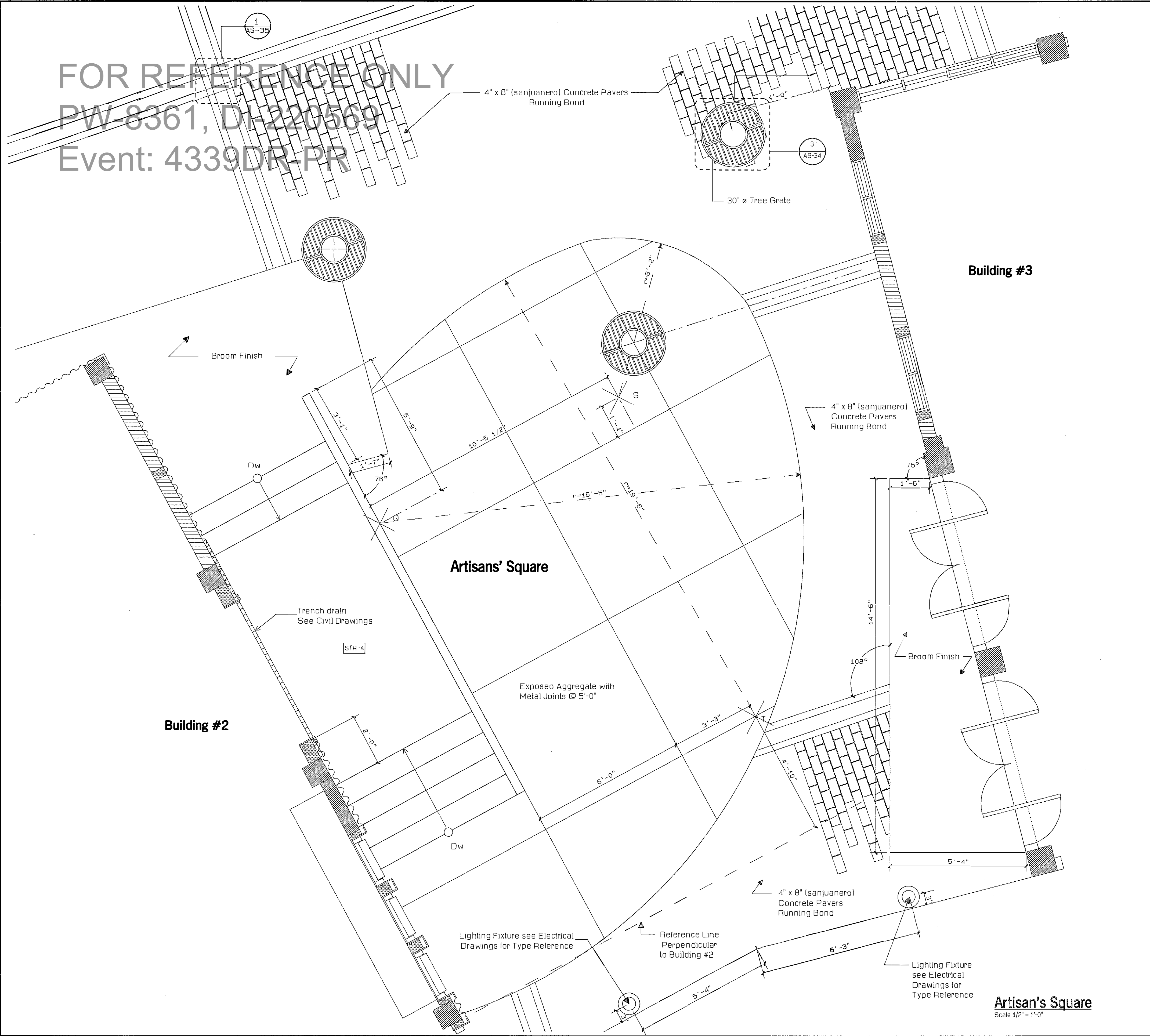
EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

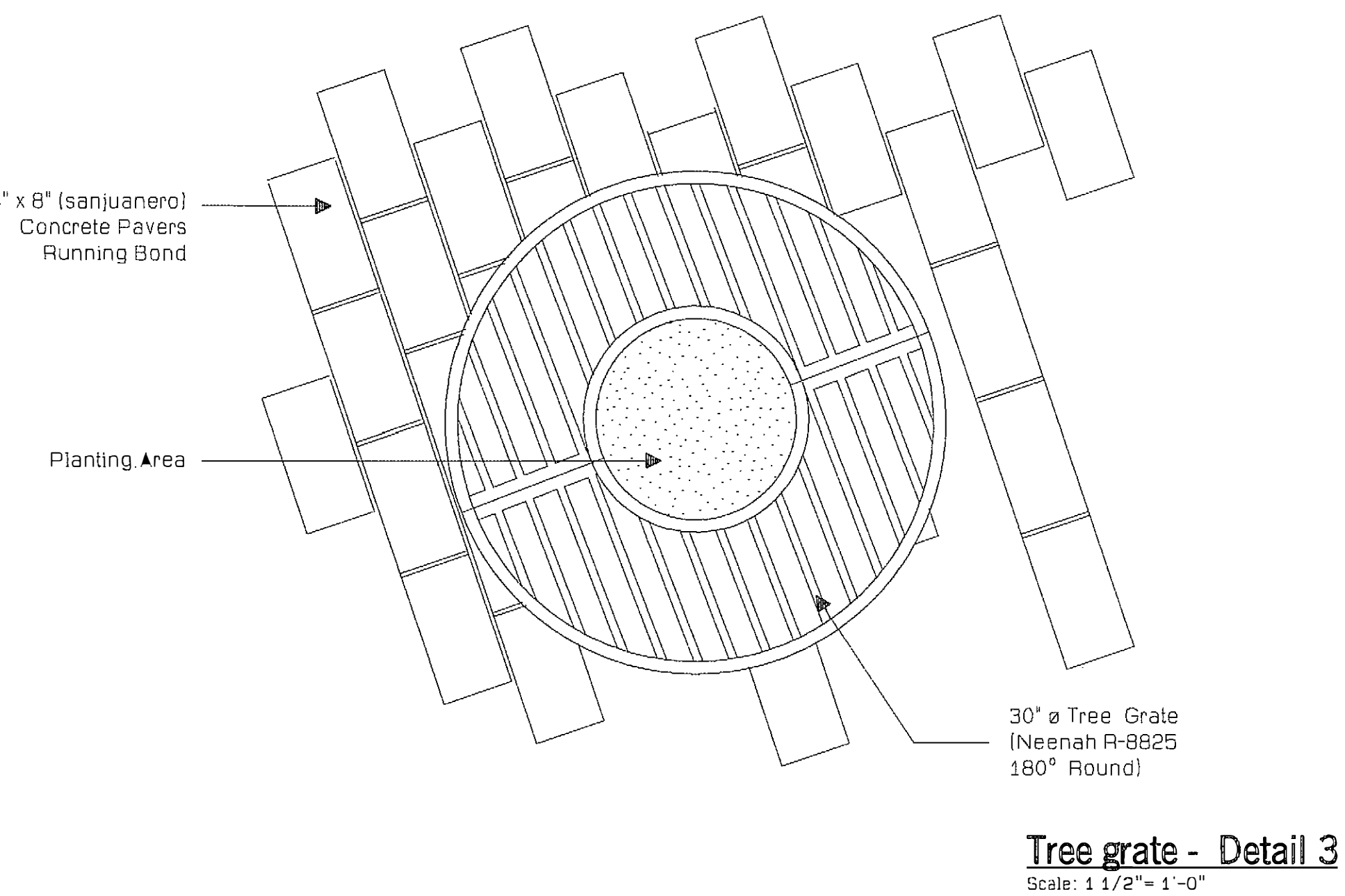
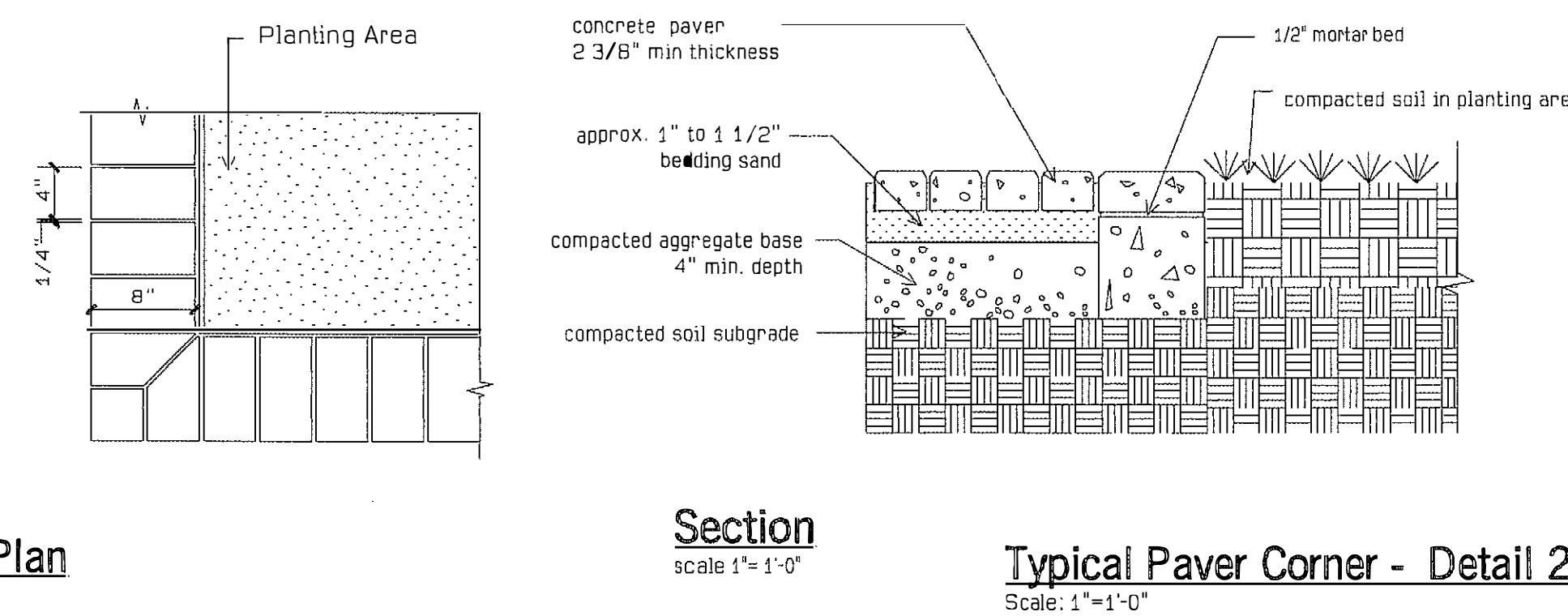
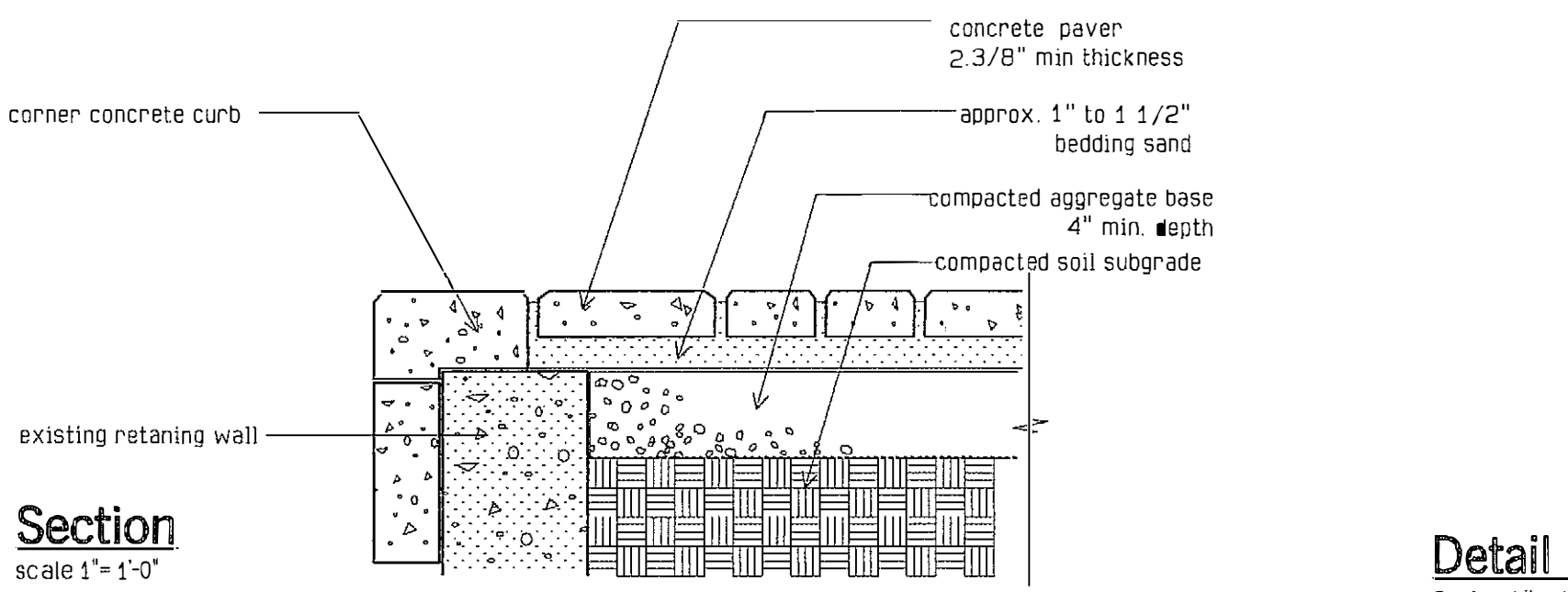
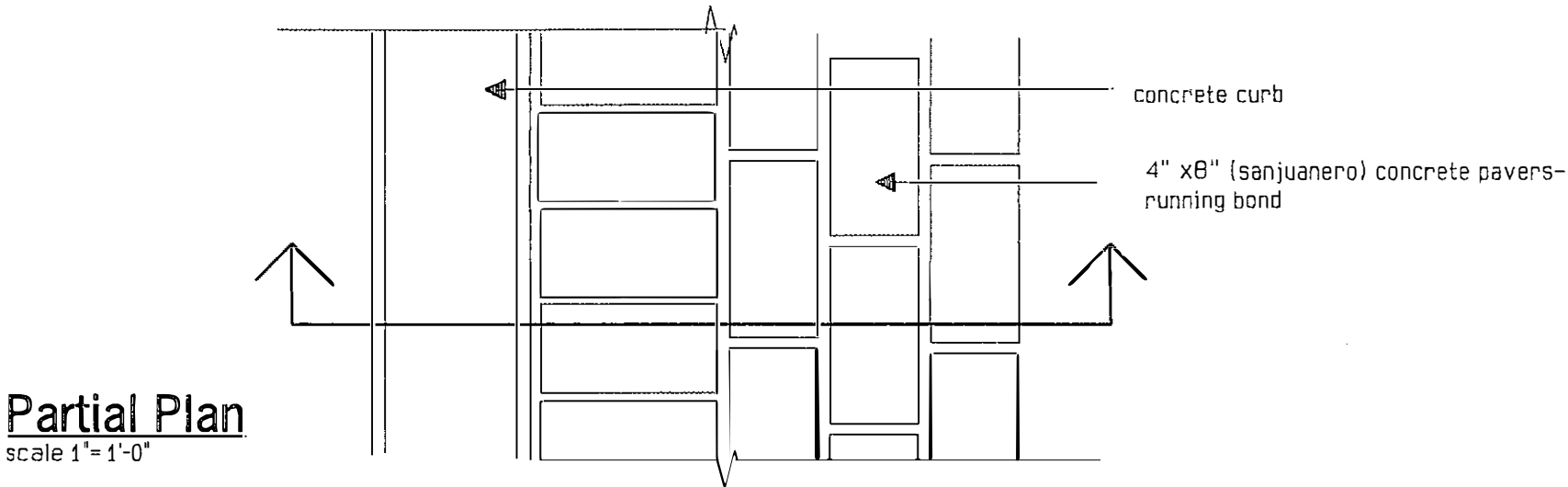
SCALE: As Shown

Partial Floor Pattern and Details
Site D

AS
33

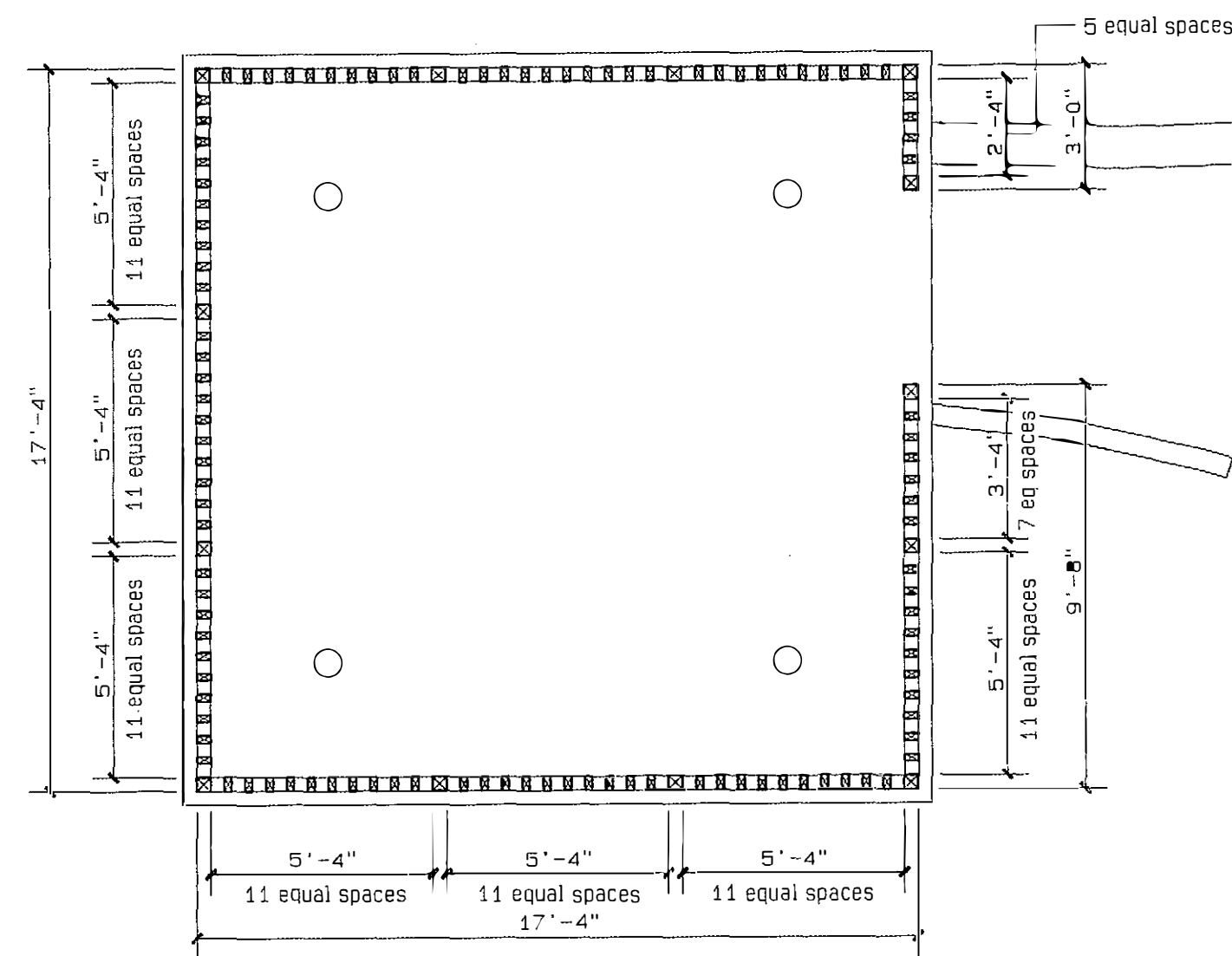


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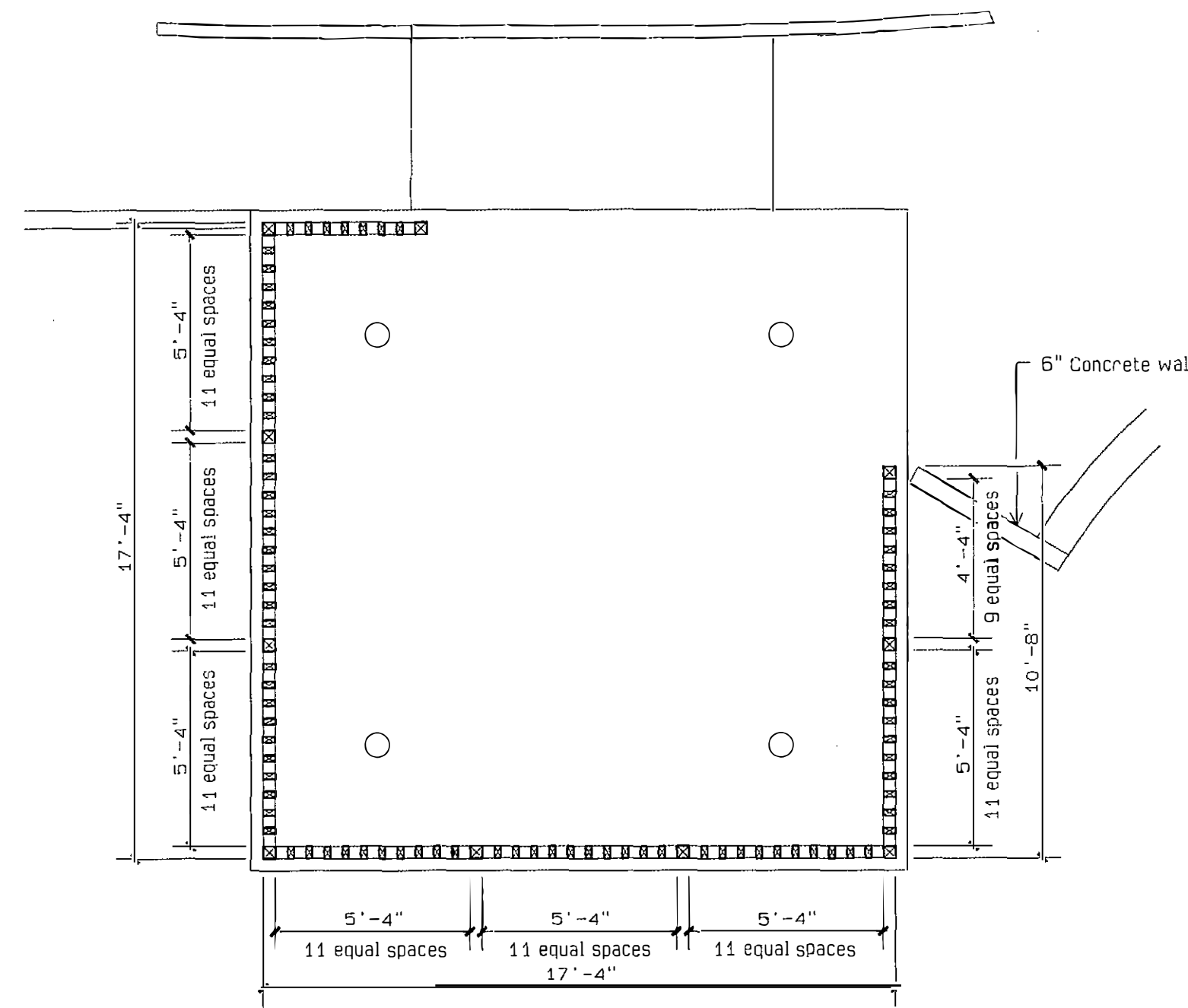


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Event: 4339DR-PR

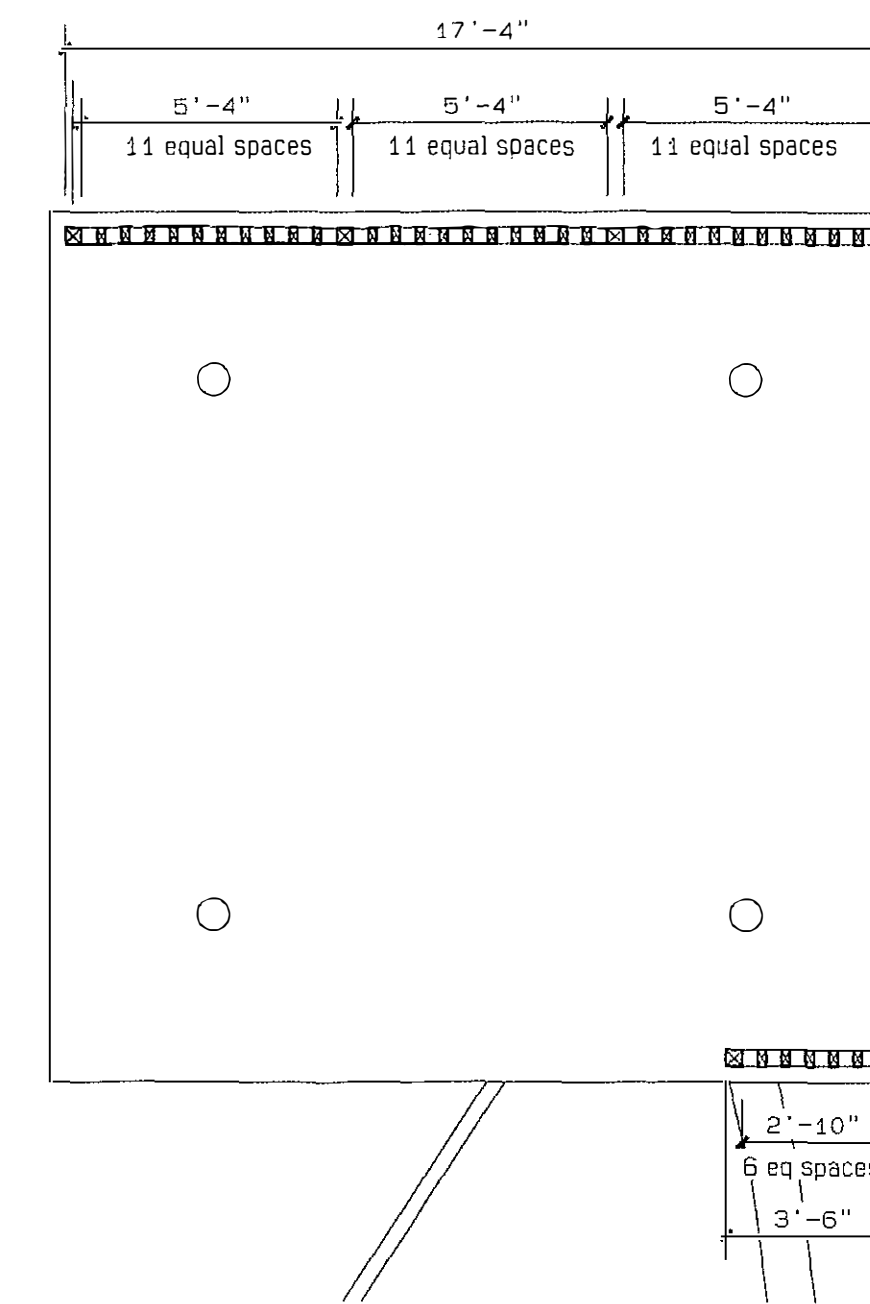
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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	74	181



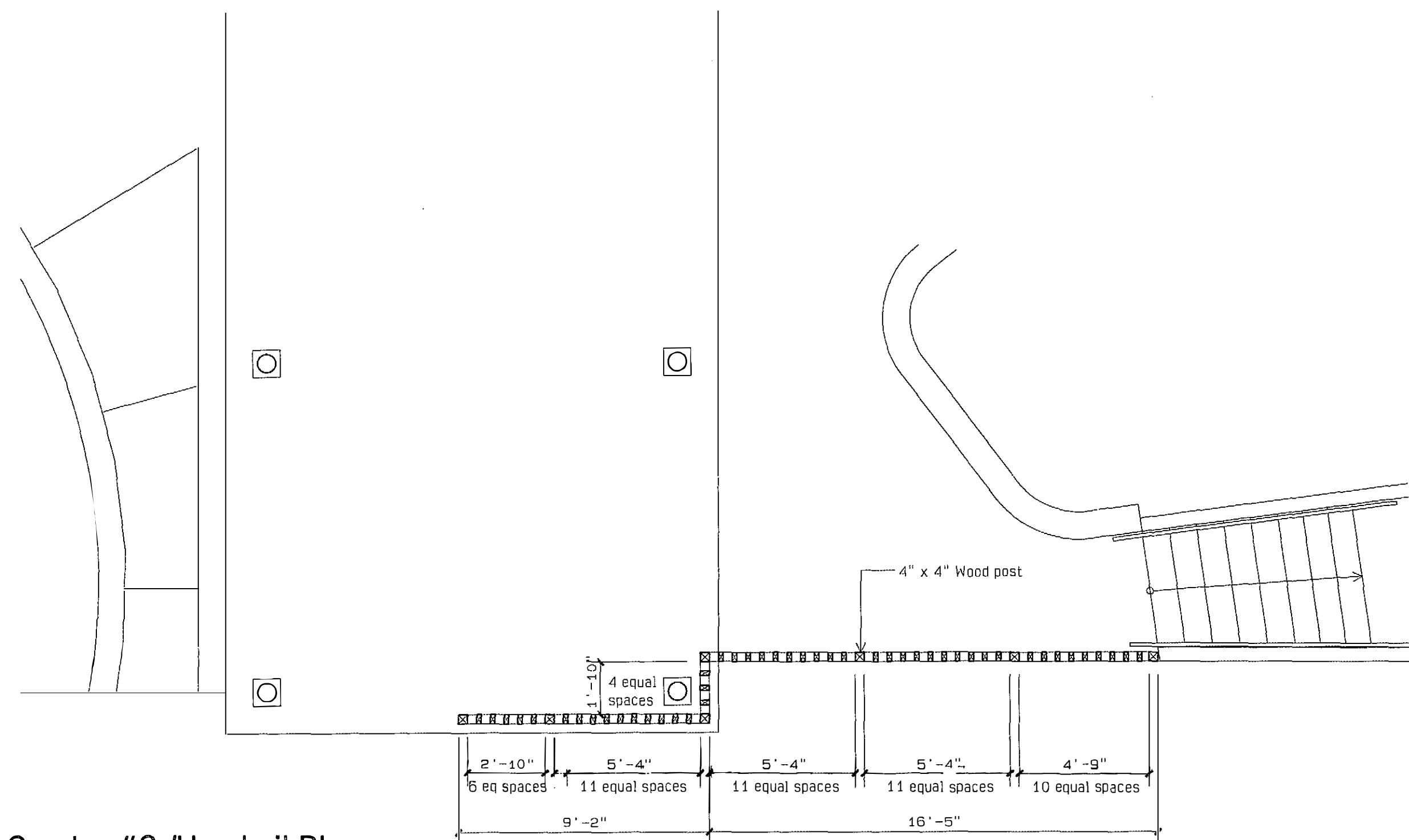
Gazebo #1 /Handrail Plan
Scale: 1/4" = 1'-0"



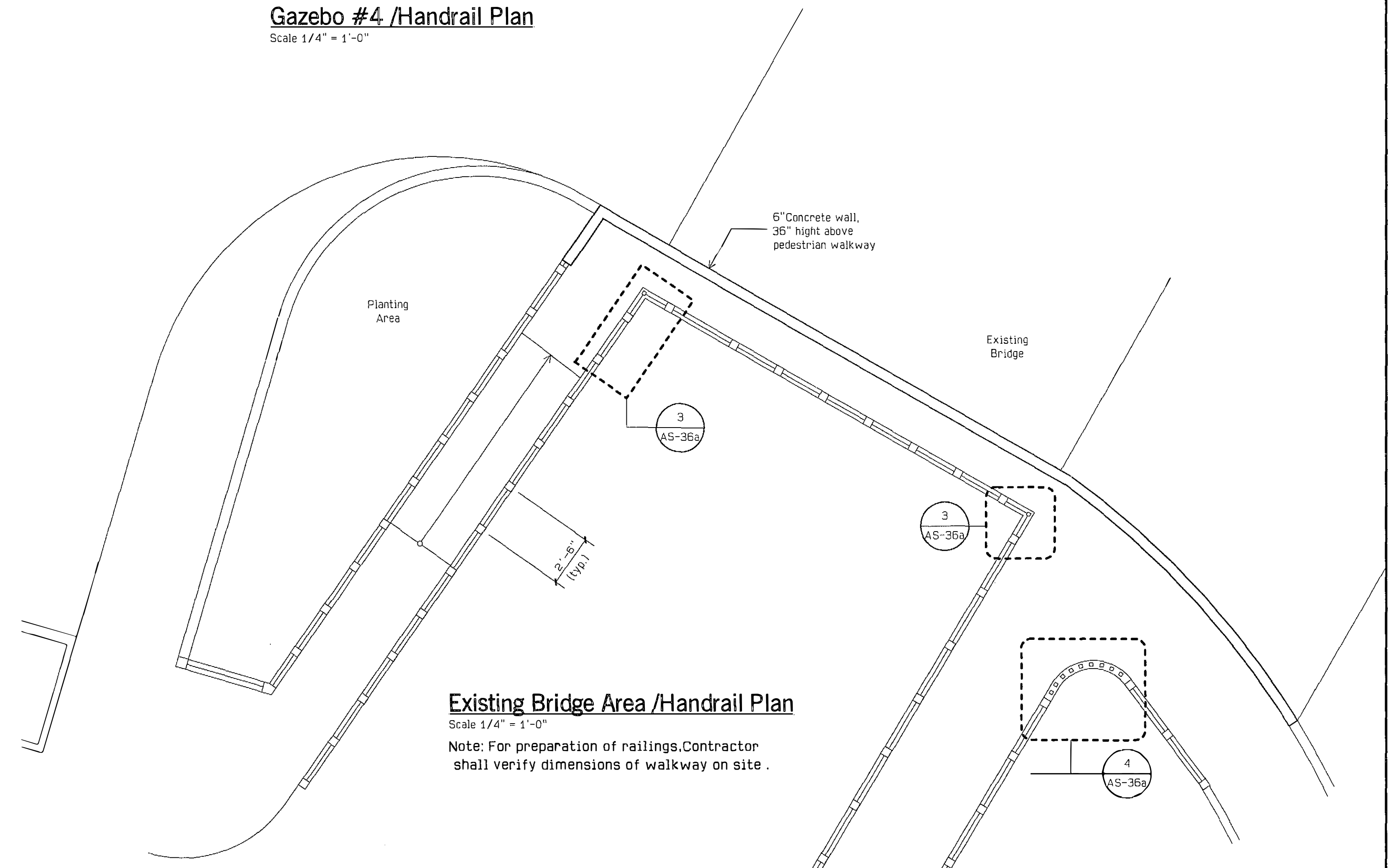
Gazebo #2 /Handrail Plan
Scale 1/4" = 1'-0"



Gazebo #4 /Handrail Plan
Scale 1/4" = 1'-0"



Gazebo #3 /Handrail Plan
Scale 1/4" = 1'-0"



Existing Bridge Area /Handrail Plan
Scale 1/4" = 1'-0"
Note: For preparation of railings. Contractor shall verify dimensions of walkway on site.

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PUERTO RICO

DATE

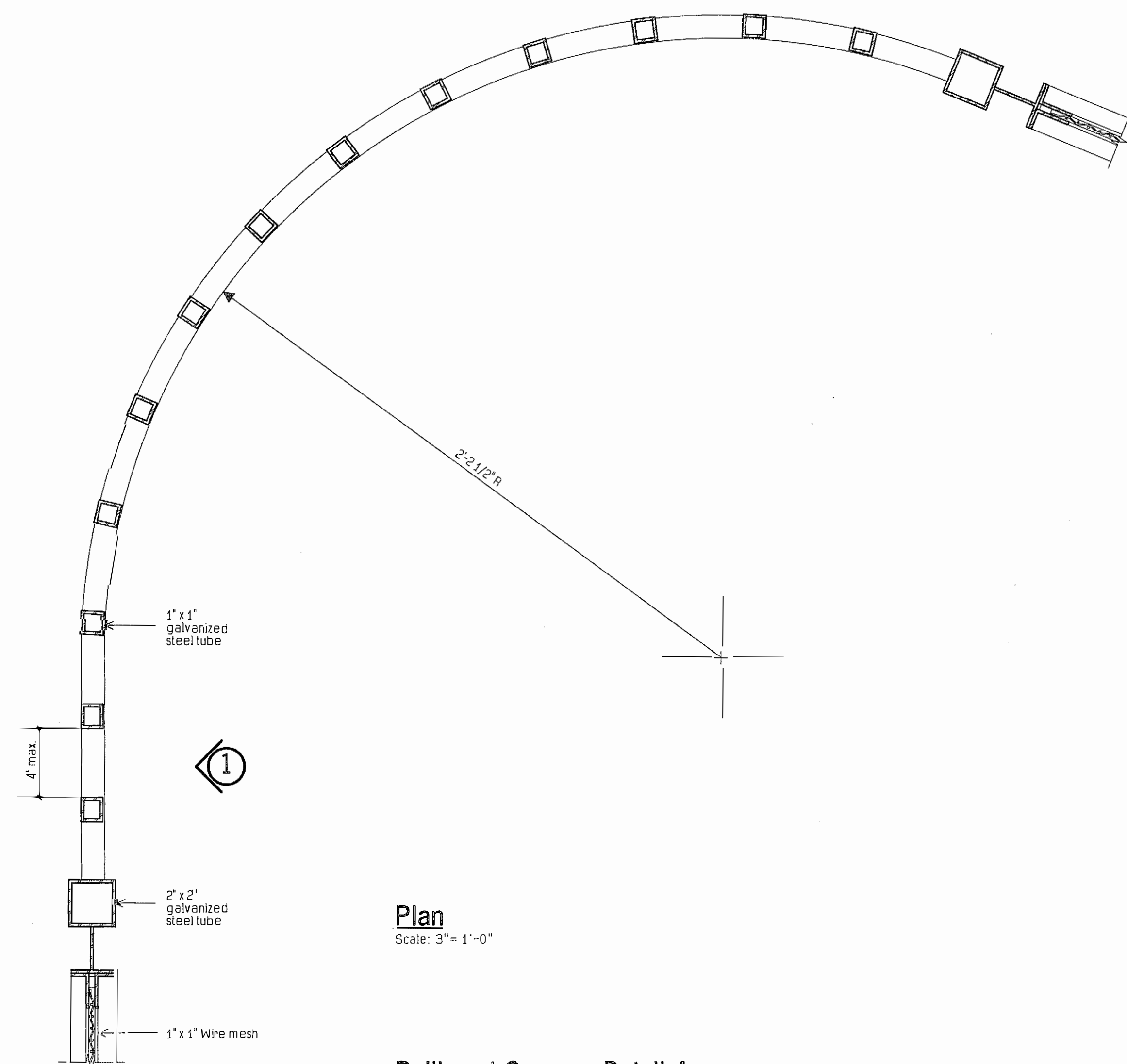
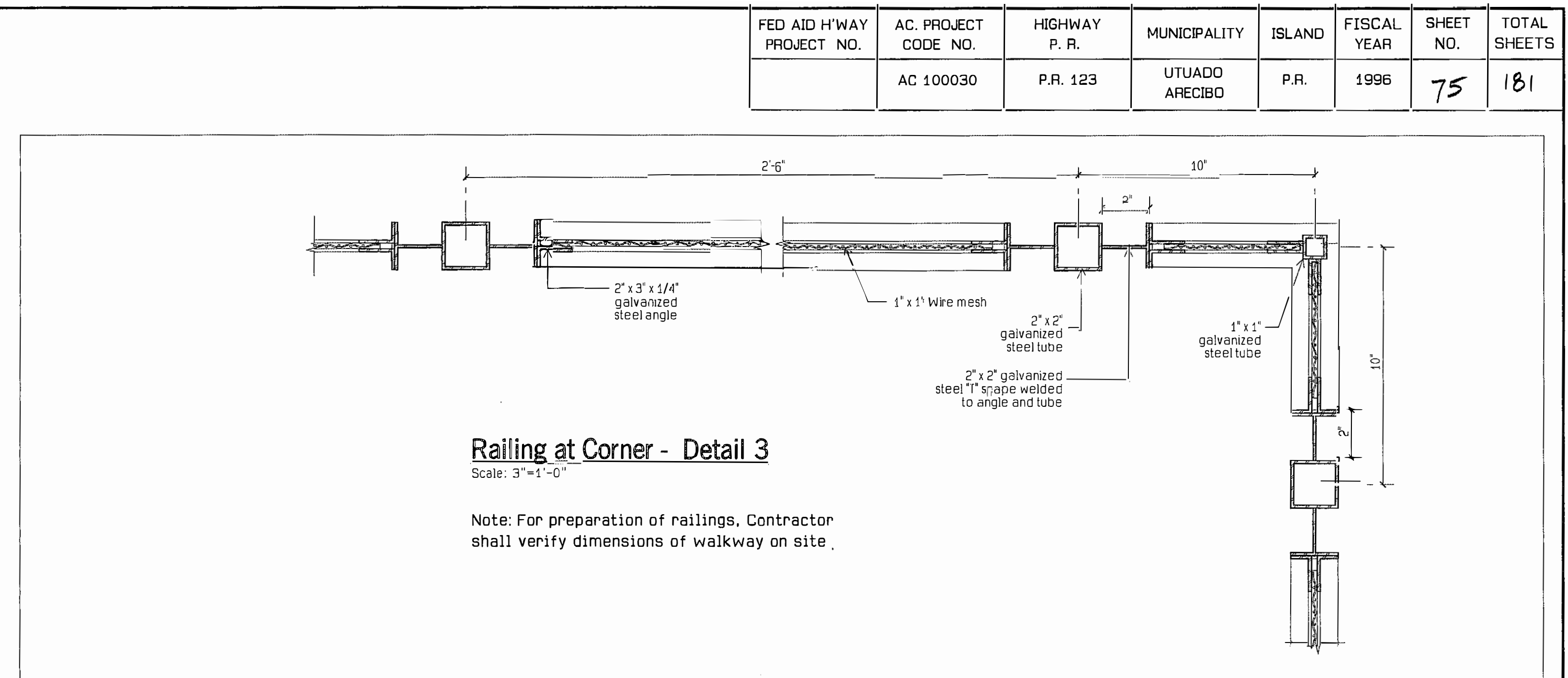
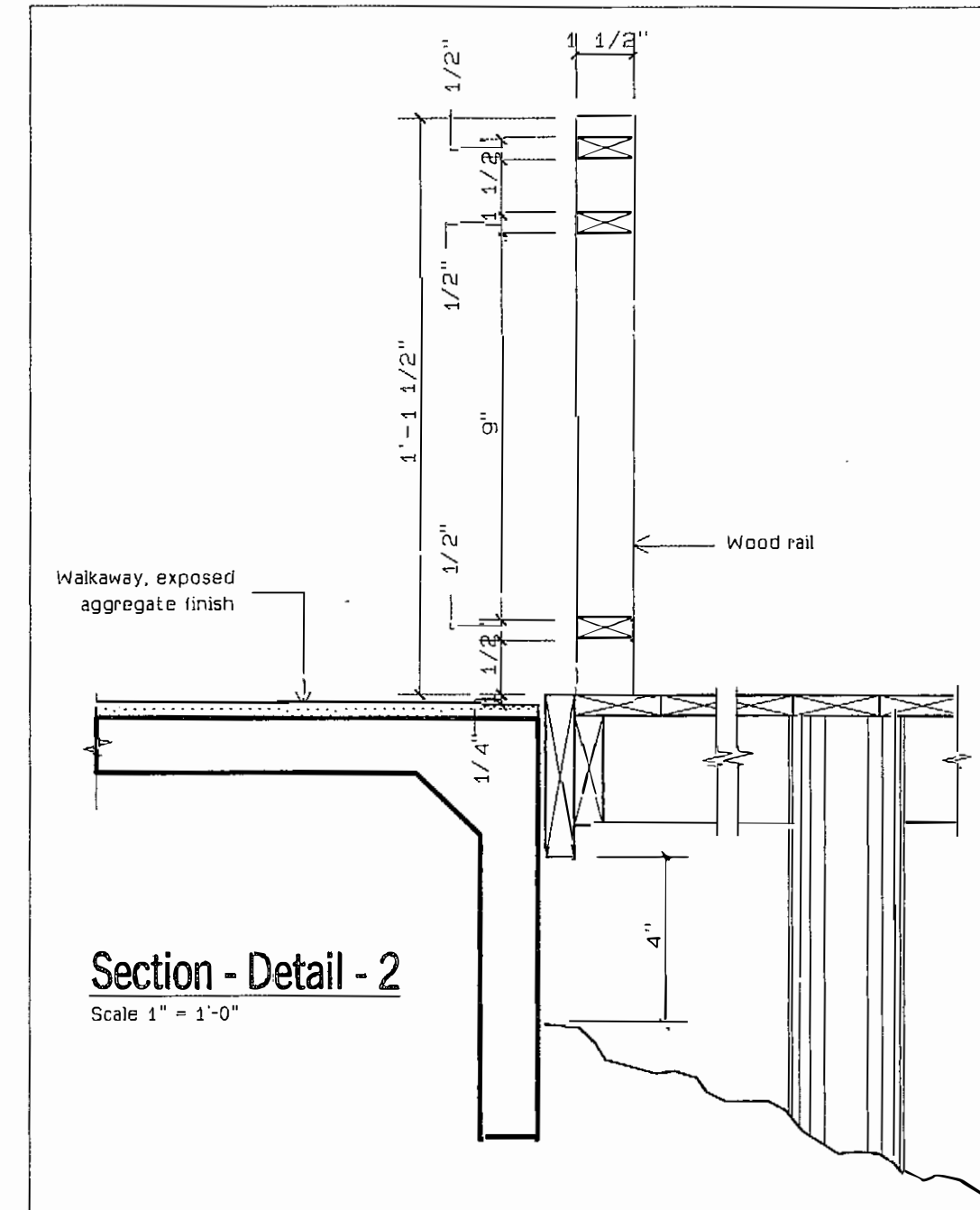
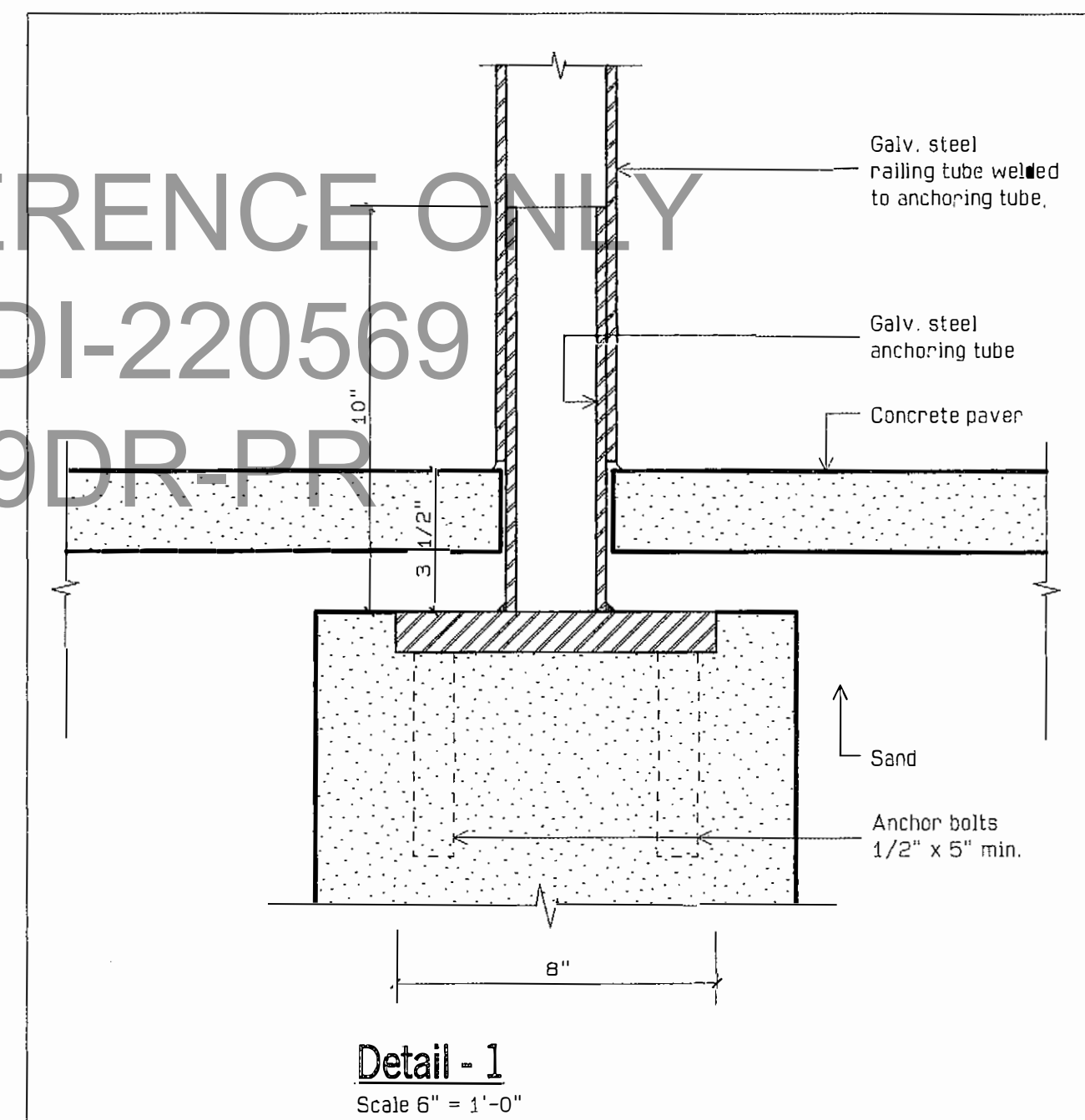
REVISIONS

As Shown

Gazebos' Handrail & Detail
Site

AS
36

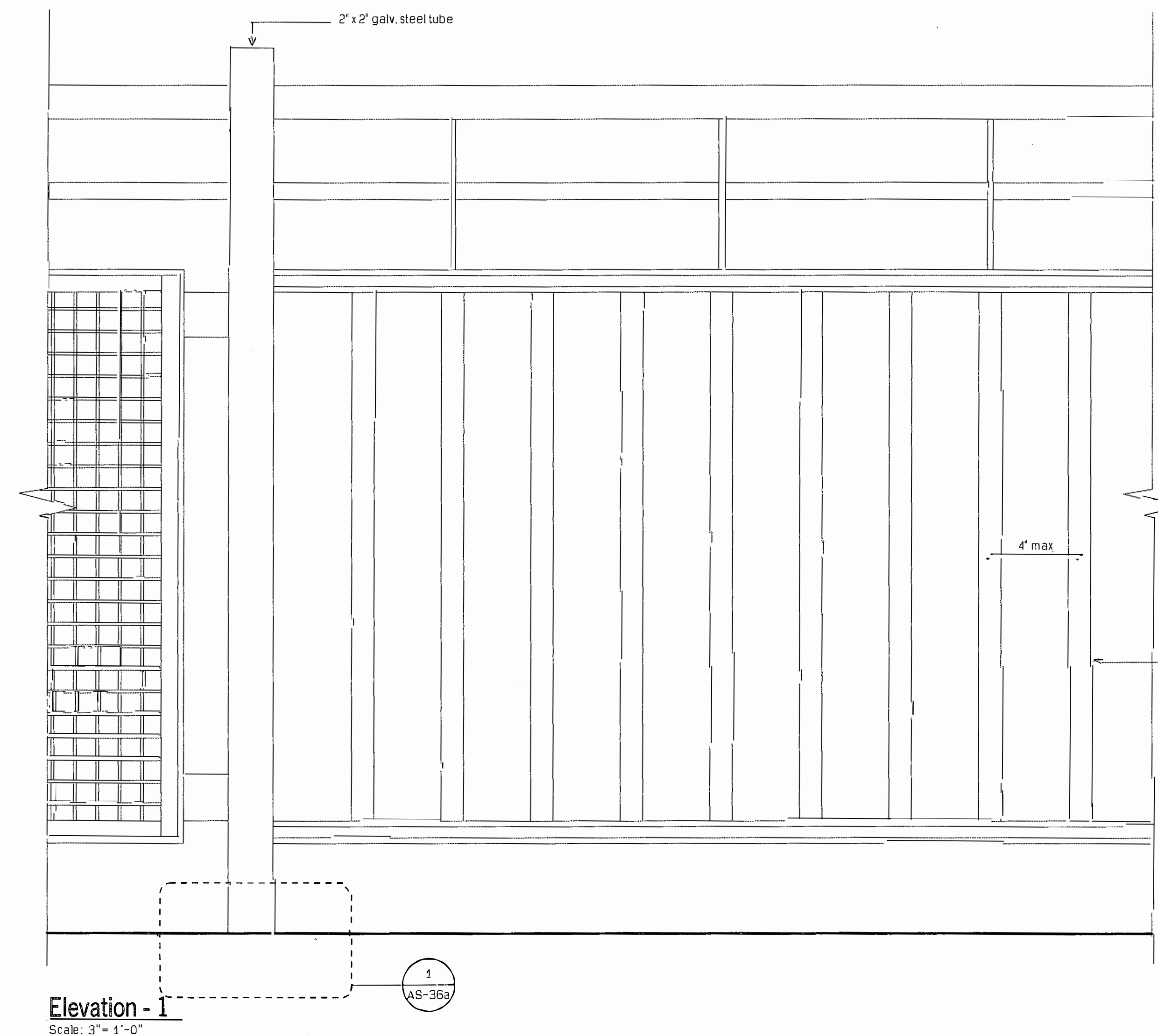
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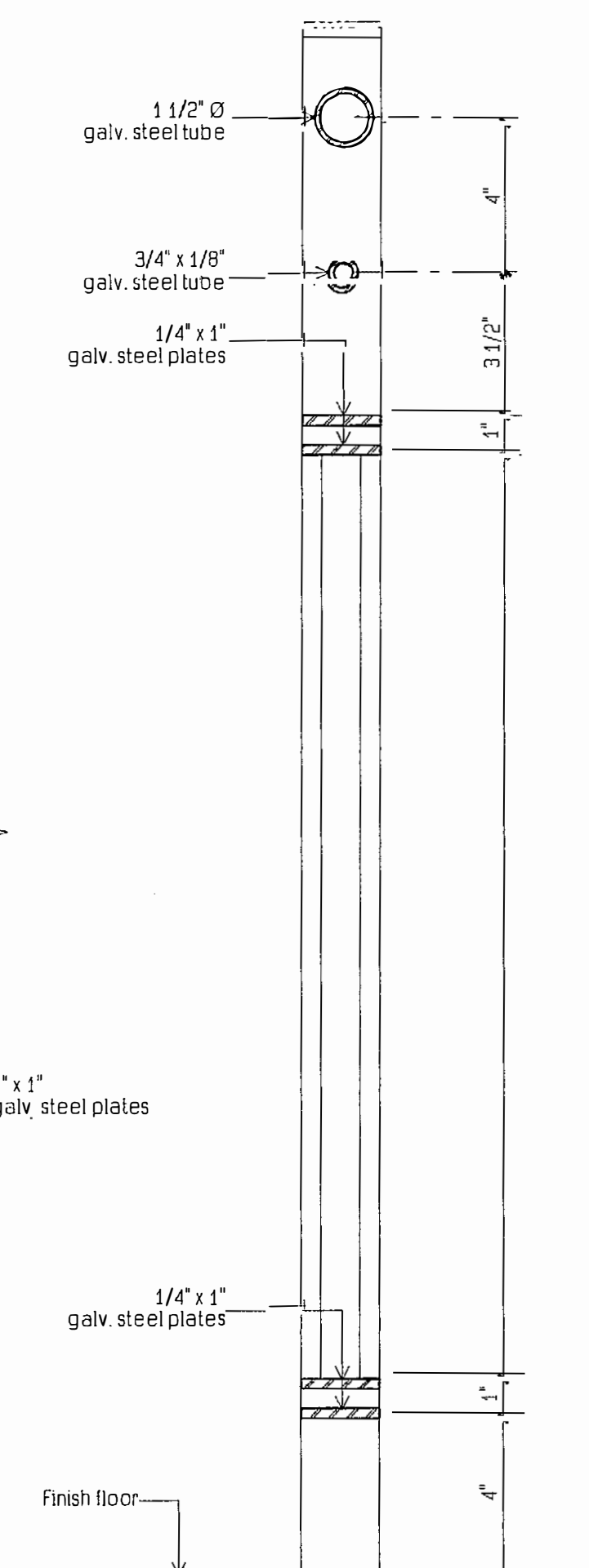
Plan
Scale: 3" = 1'-0"

Railing at Corner - Detail 4
Scale: 3" = 1'-0"

Note: For preparation of railings, Contractor shall verify dimensions of walkway on site.



Elevation - 1
Scale: 3" = 1'-0"



Section 1
Scale: 3" = 1'-0"

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PUERTO RICO

DATE

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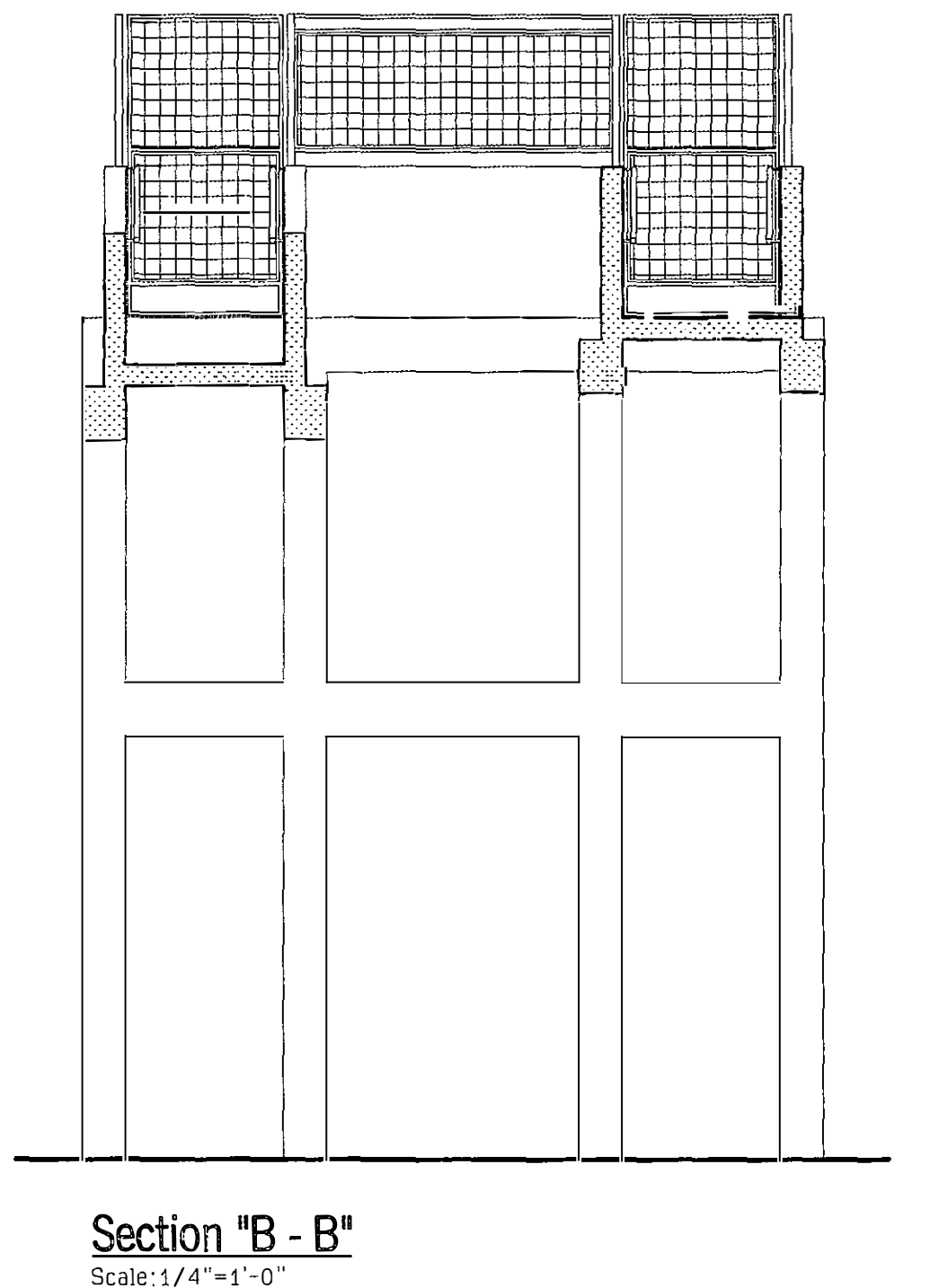
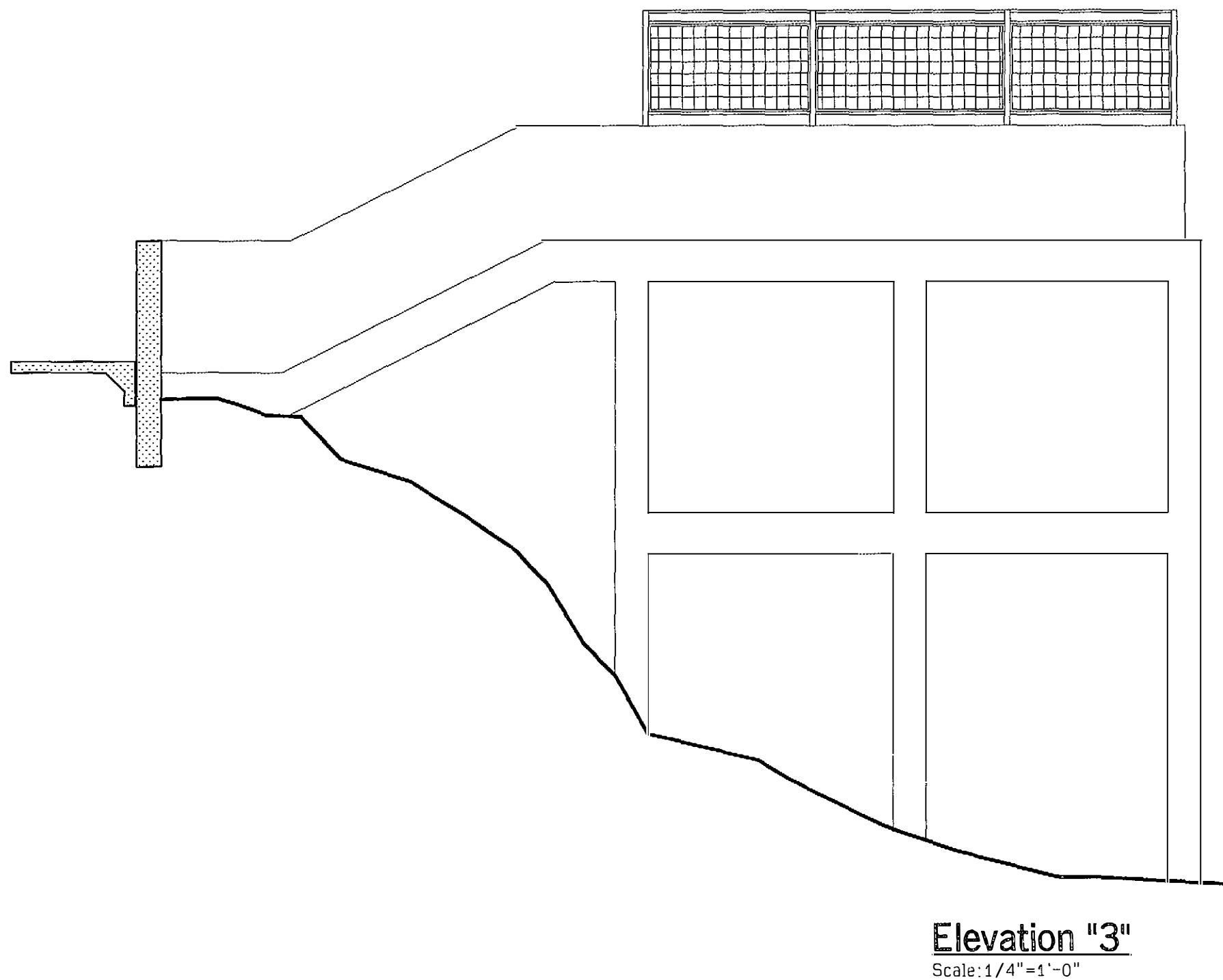
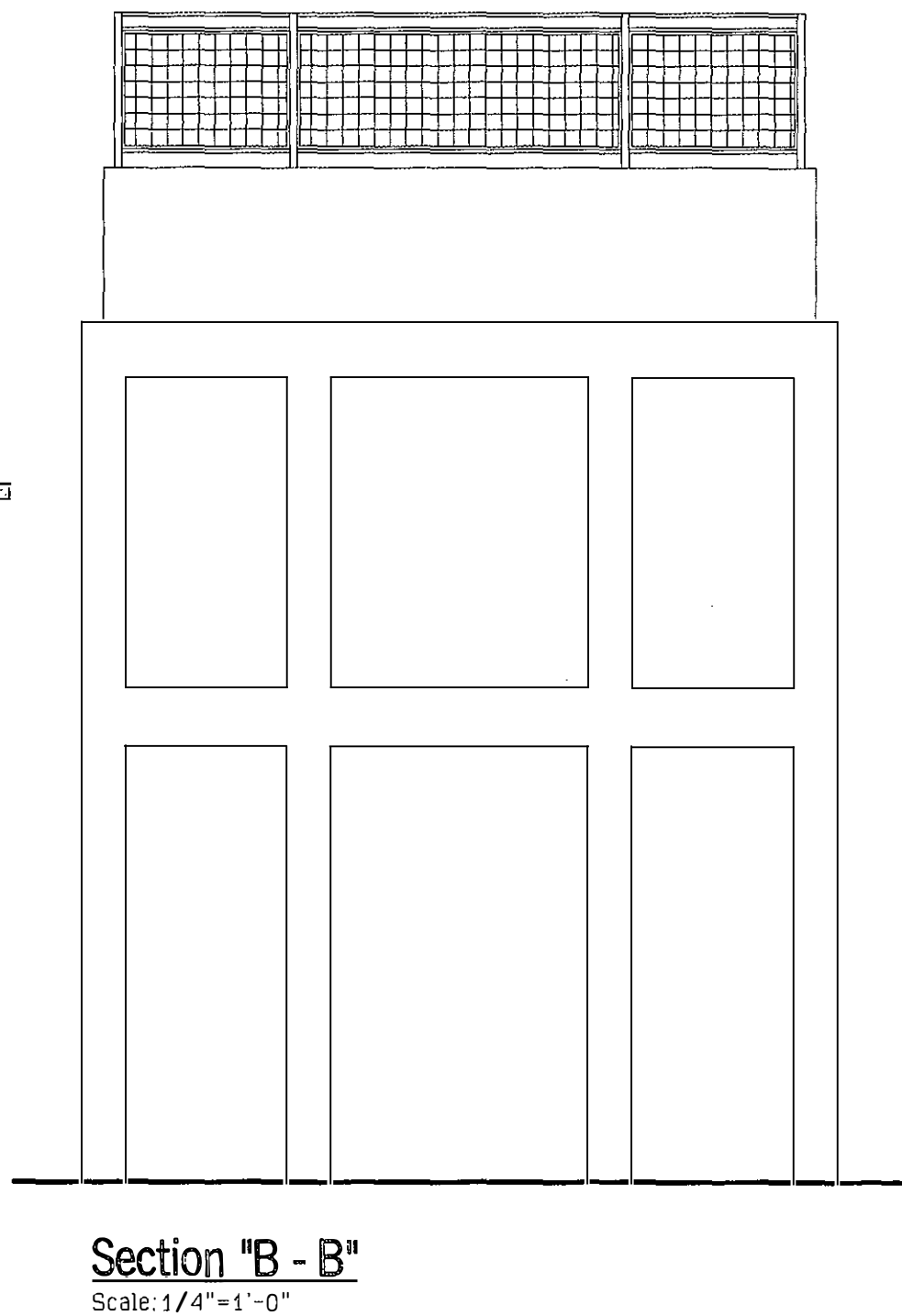
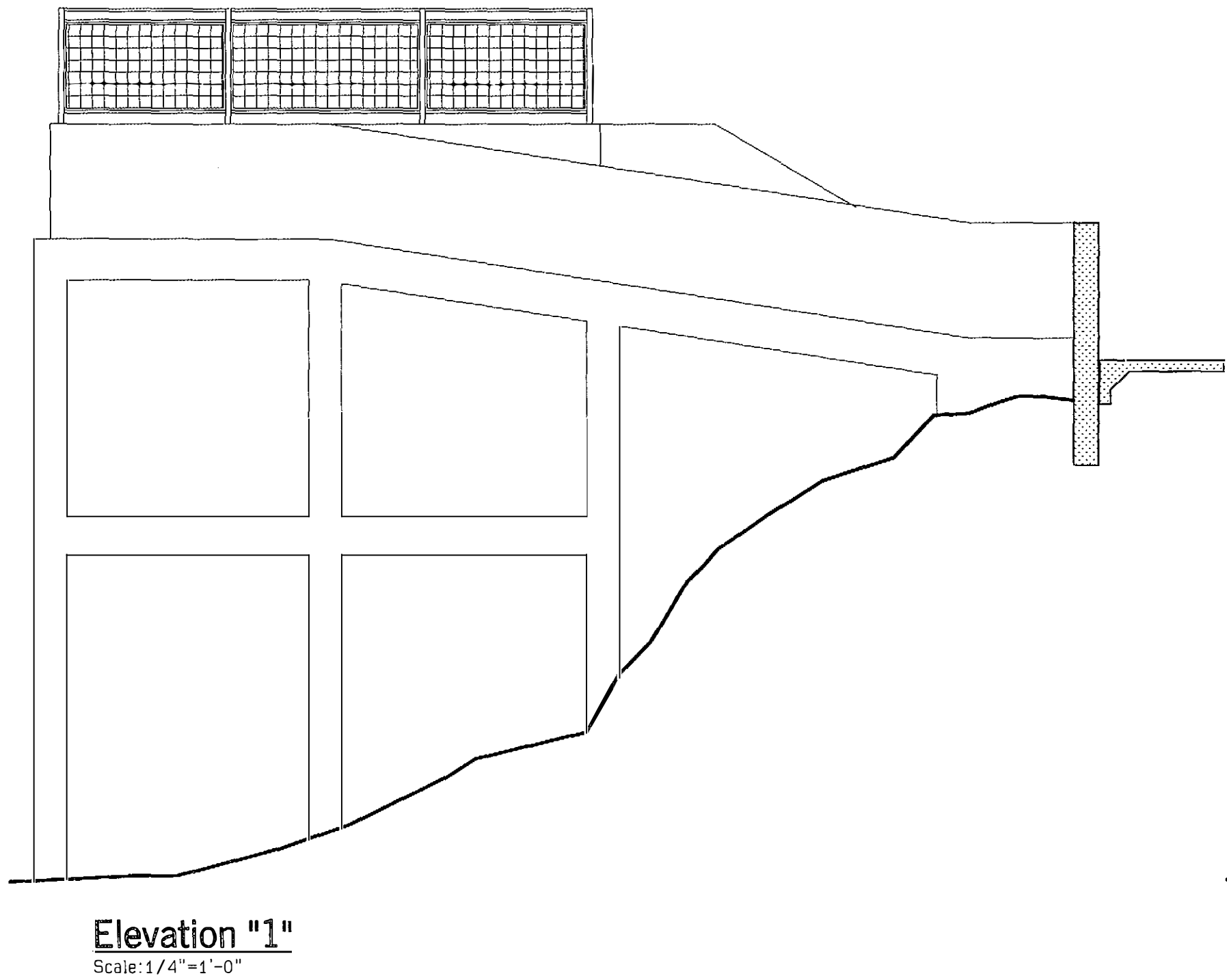
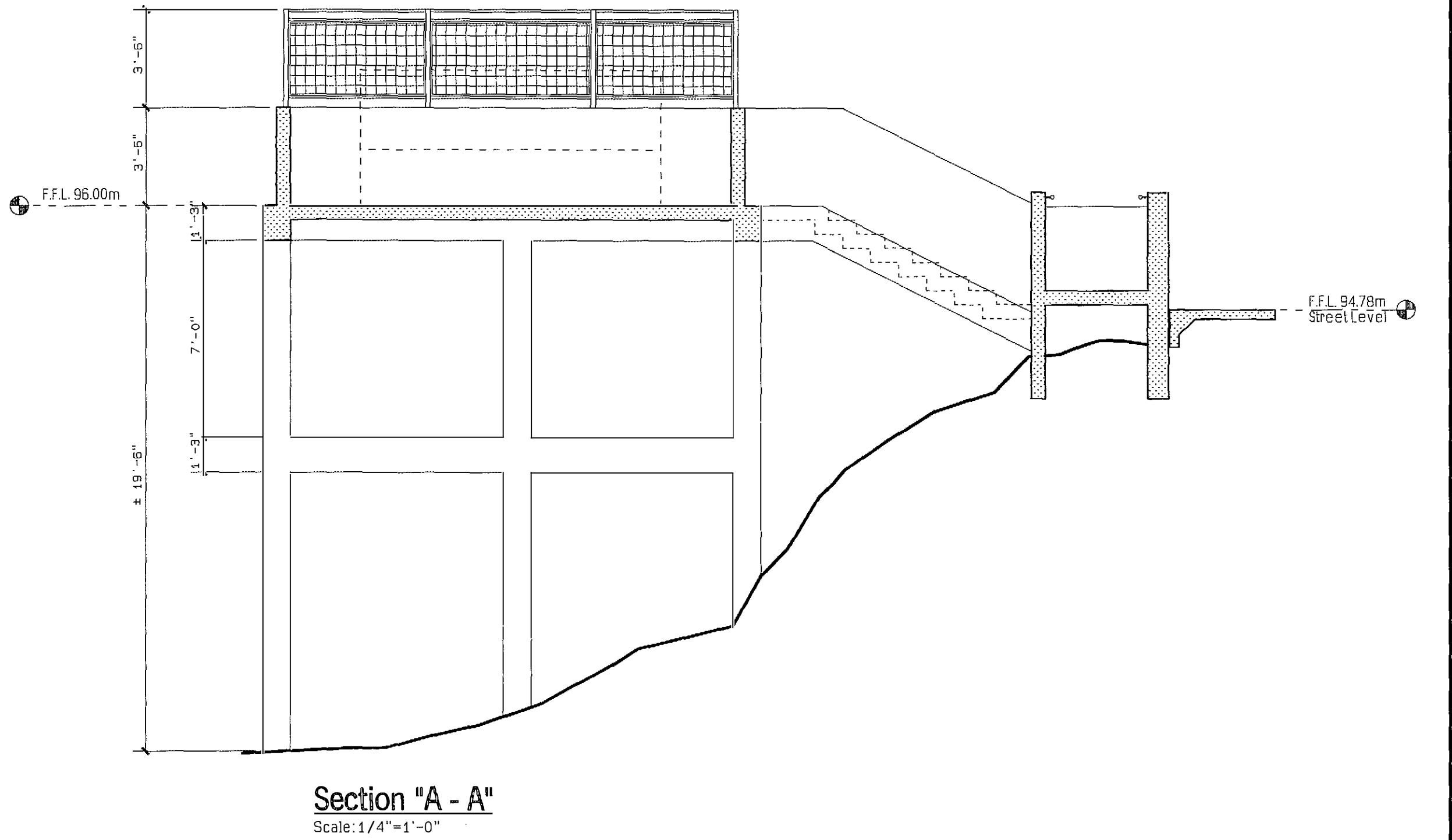
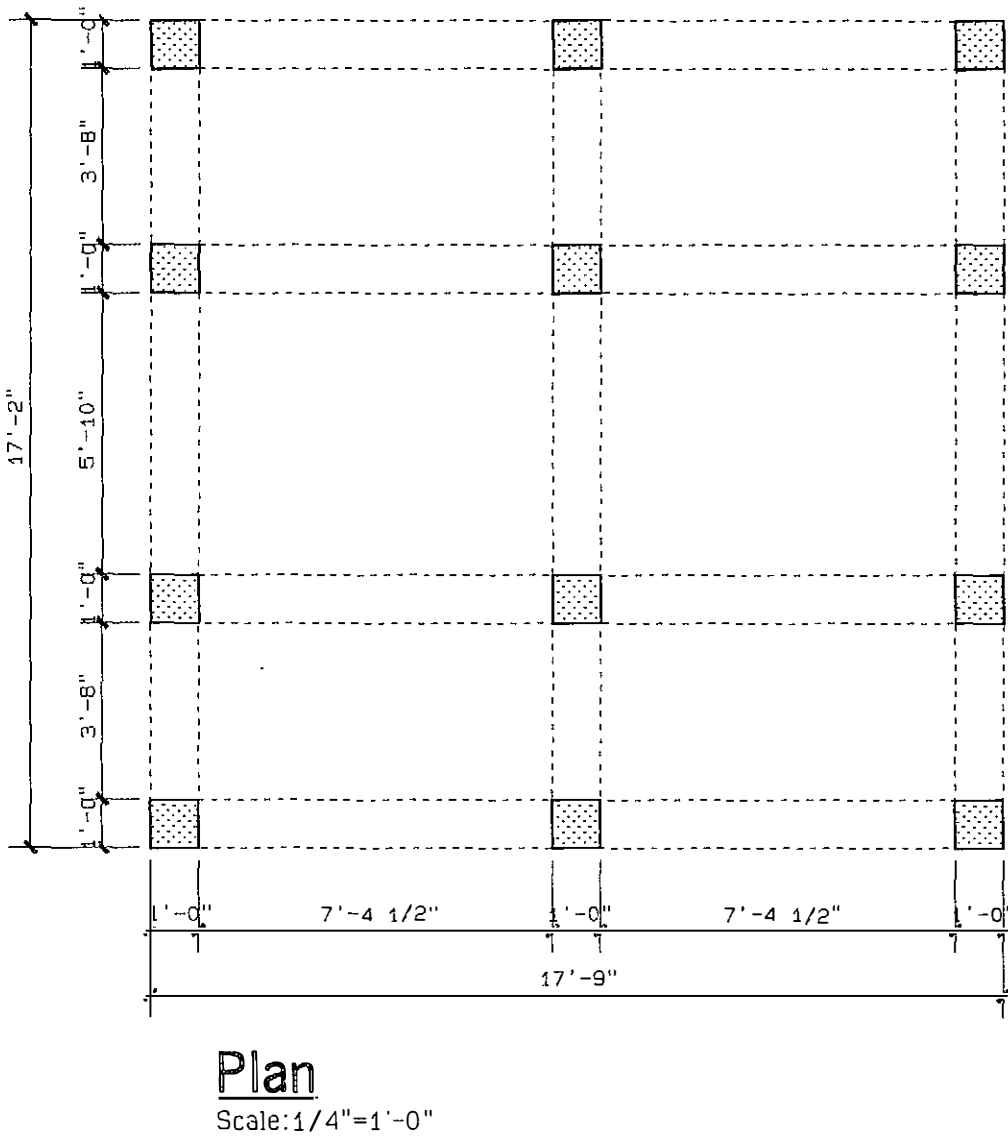
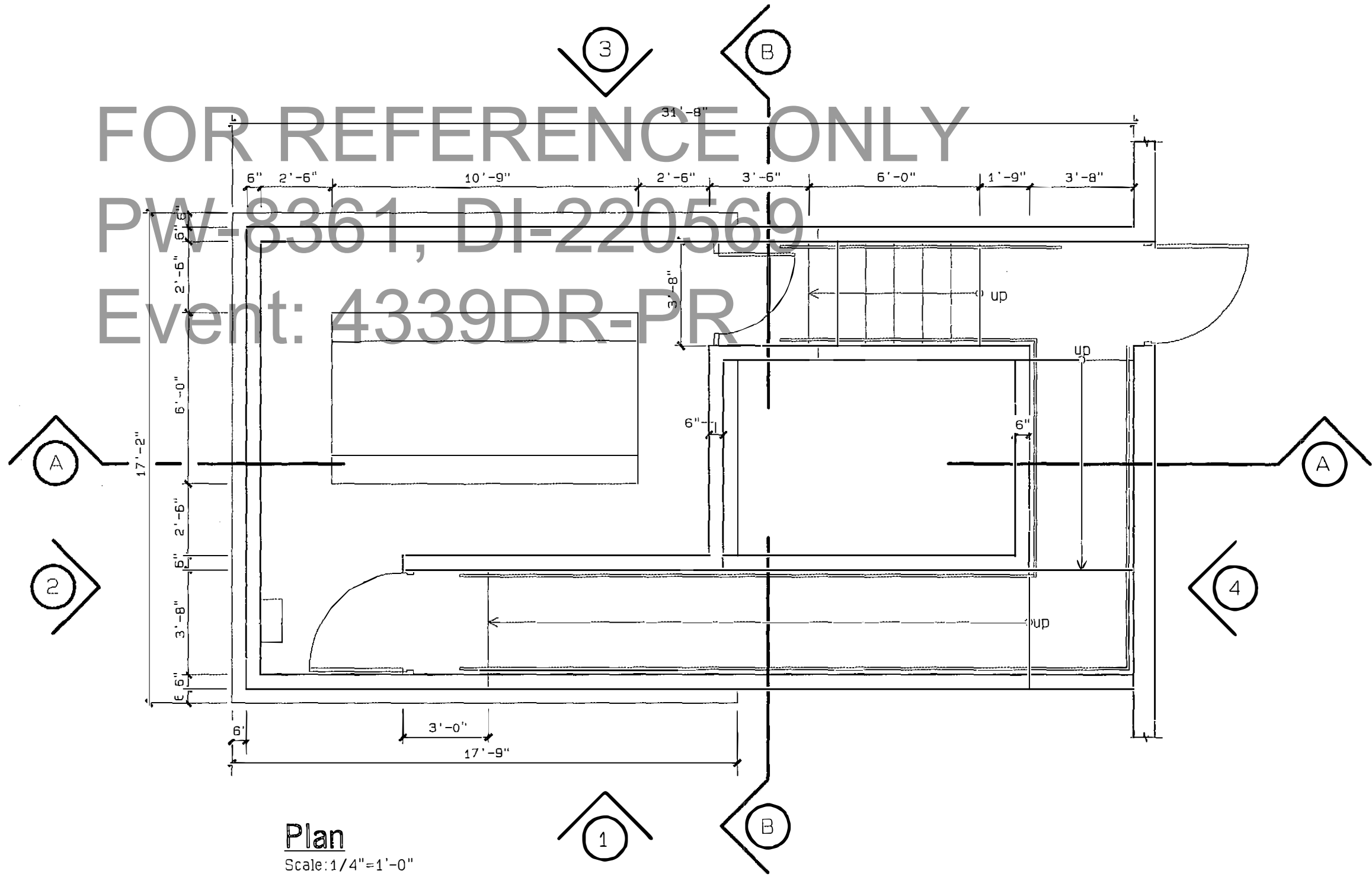
SCALE: As shown

Railing Details
Site

AS
36a

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PUERTO RICO

DATE	REVISIONS

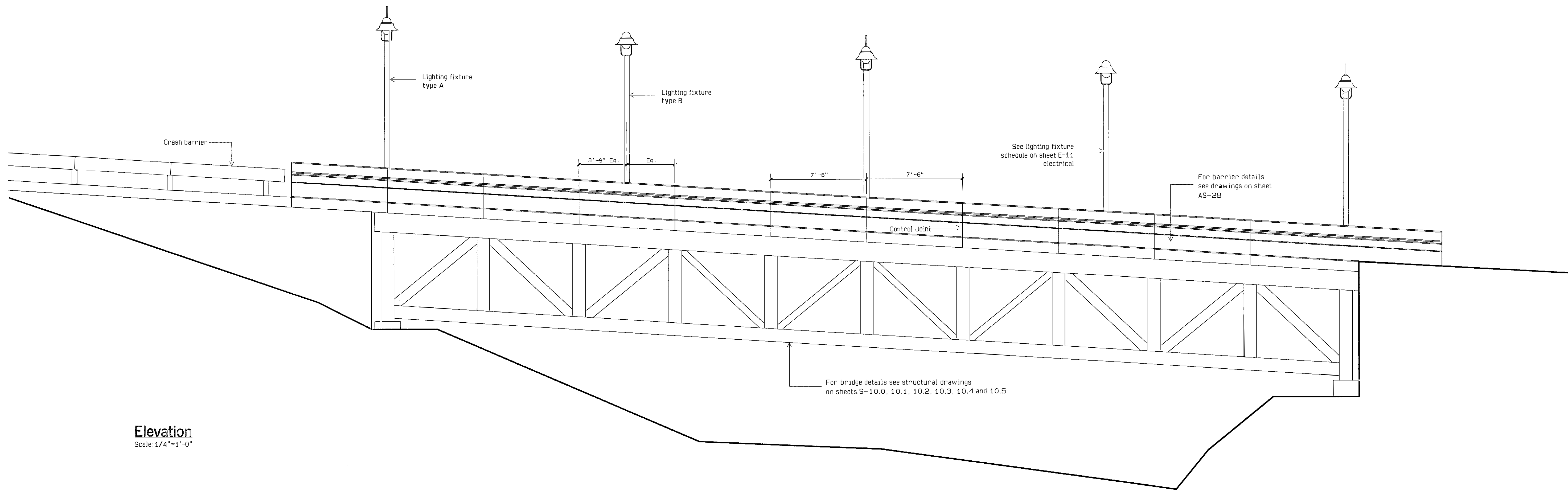
SCALE: 1/4": 1'-0"

Gasoline Service Structure
Site D

AS
38

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Elevation
Scale: 1/4"=1'-0"

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UTUADO / ARECIBO
PUERTO RICO

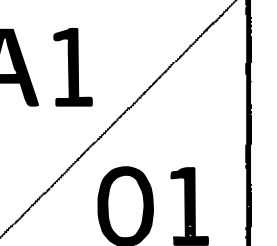
DATE	REVISIONS

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

Bridge Elevation
Site C

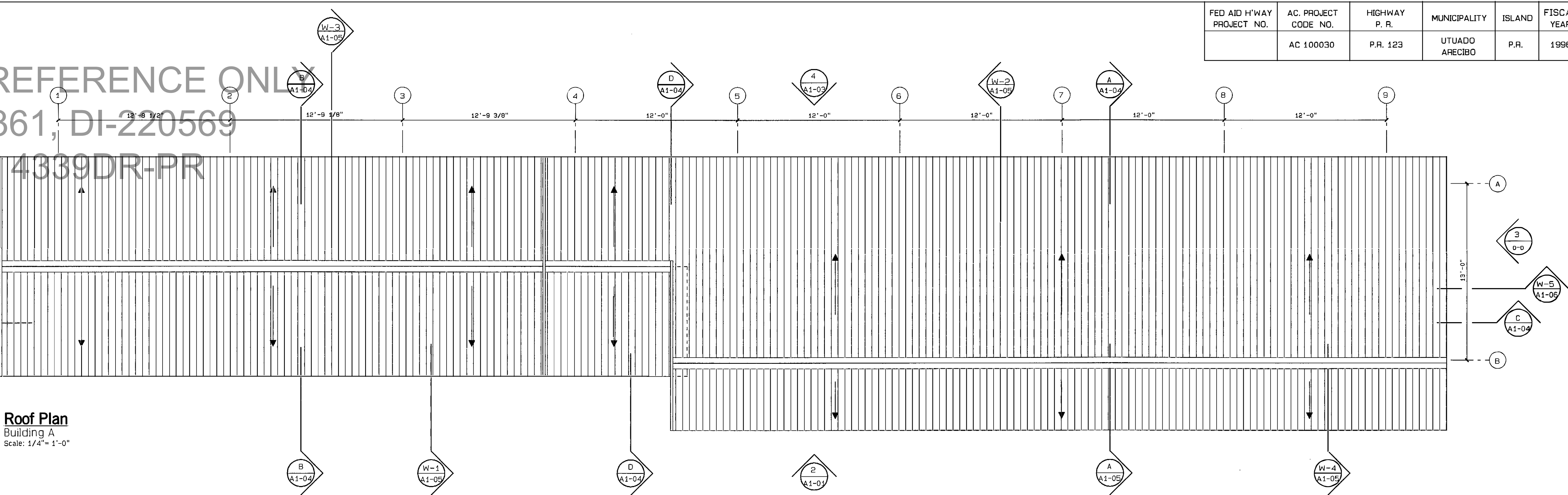
AS
39

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Event: 4339DR-PR

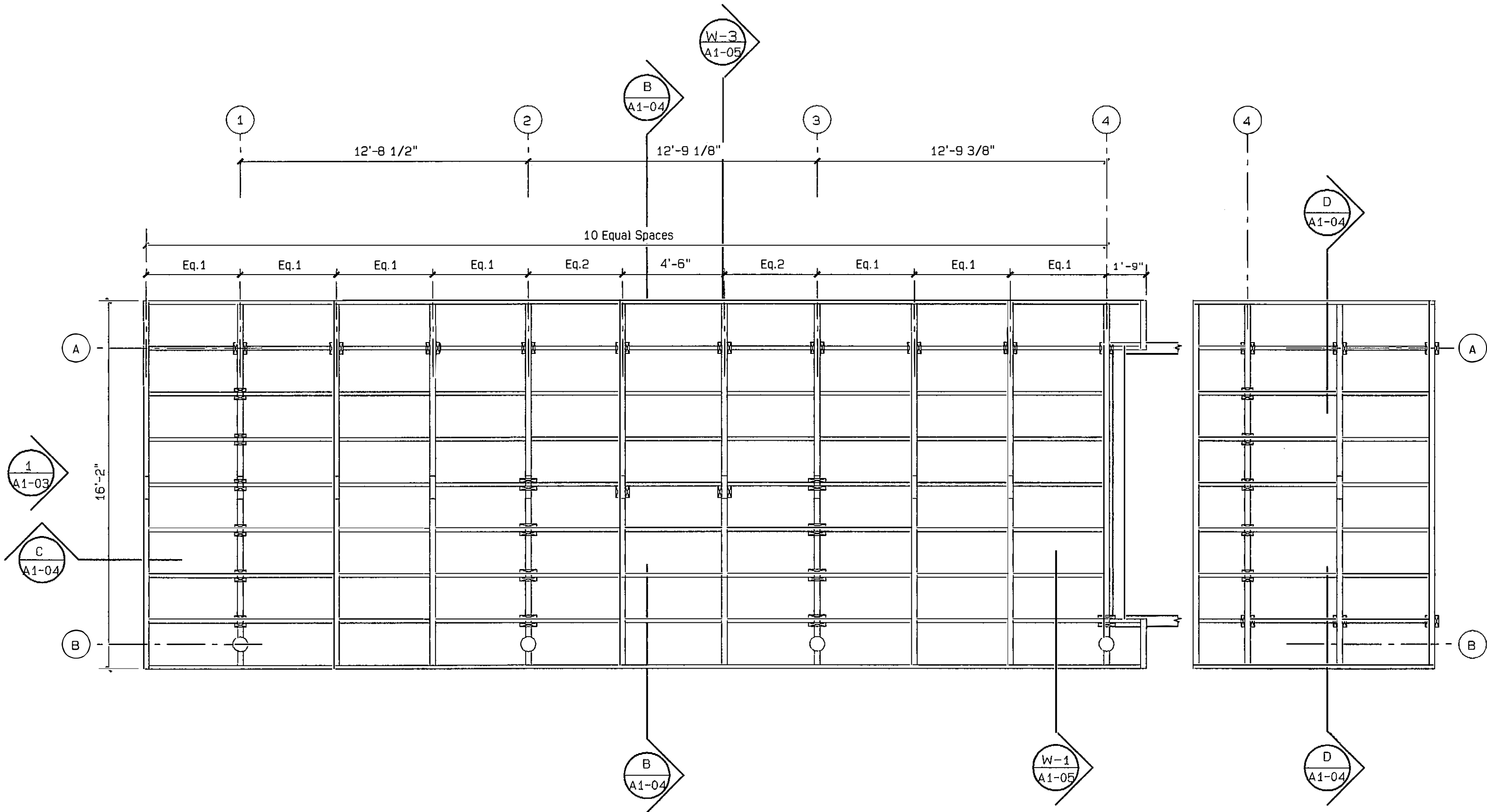


FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	80	181

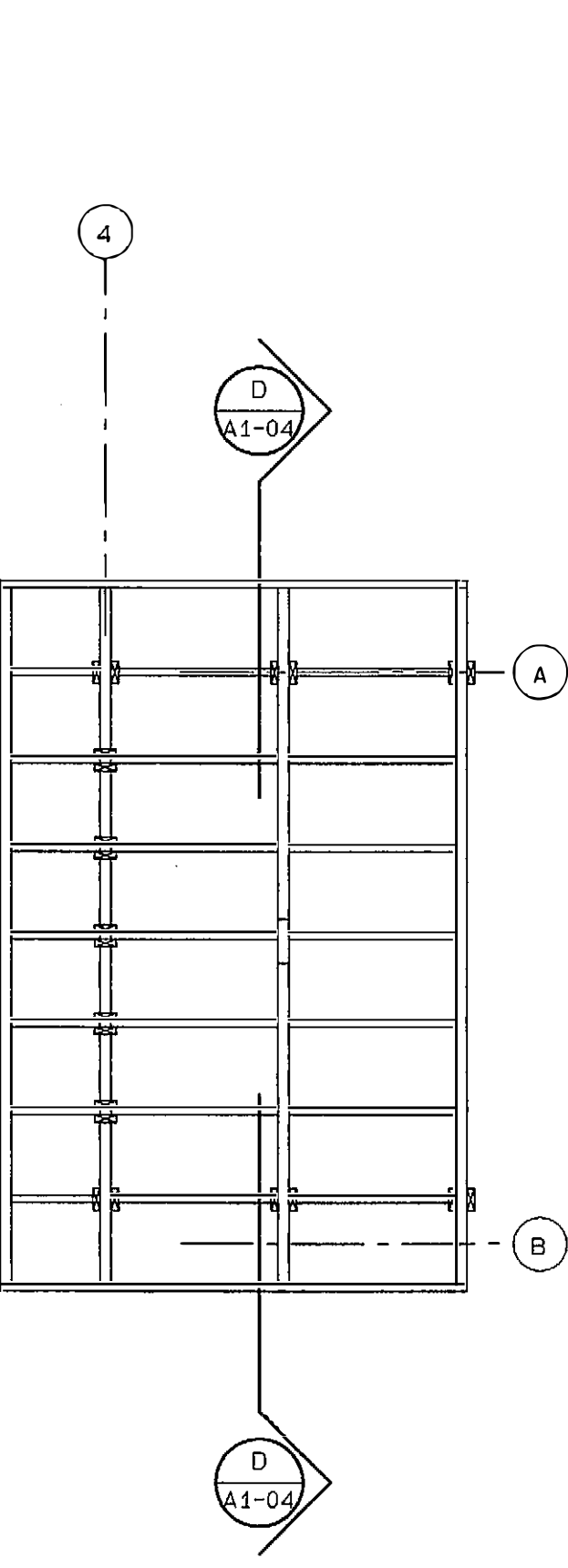
FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



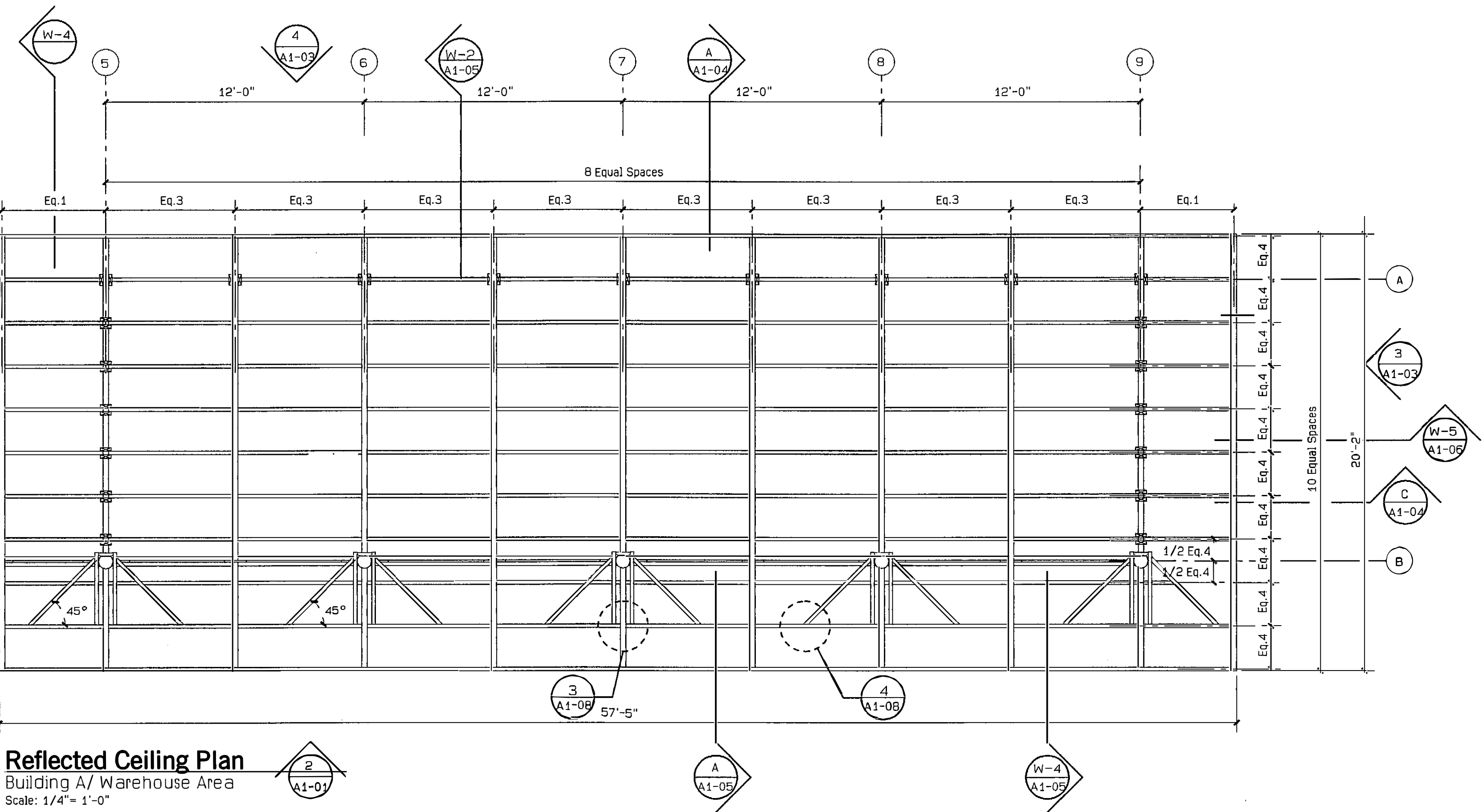
Roof Plan
Building A
Scale: 1/4"= 1'-0"



Reflected Ceiling Plan
Building A/ Restroom Area
Scale: 1/4"= 1'-0"



Reflected Ceiling Plan
Building A/ Employee's Area
Scale: 1/4"= 1'-0"



Reflected Ceiling Plan
Building A/ Warehouse Area
Scale: 1/4"= 1'-0"

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PUERTO RICO

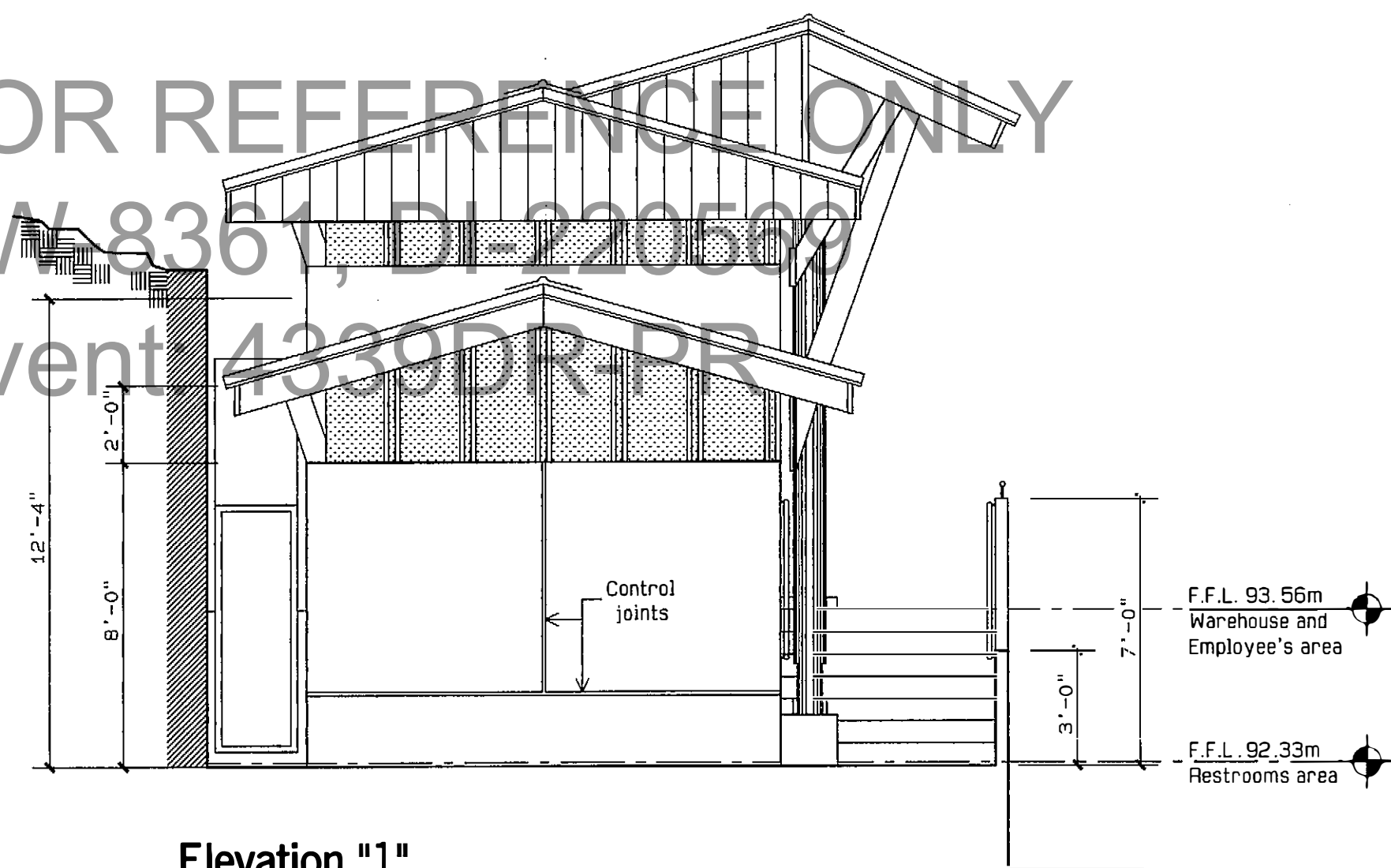
DATE	REVISIONS

SCALE:1/4":1'-0"

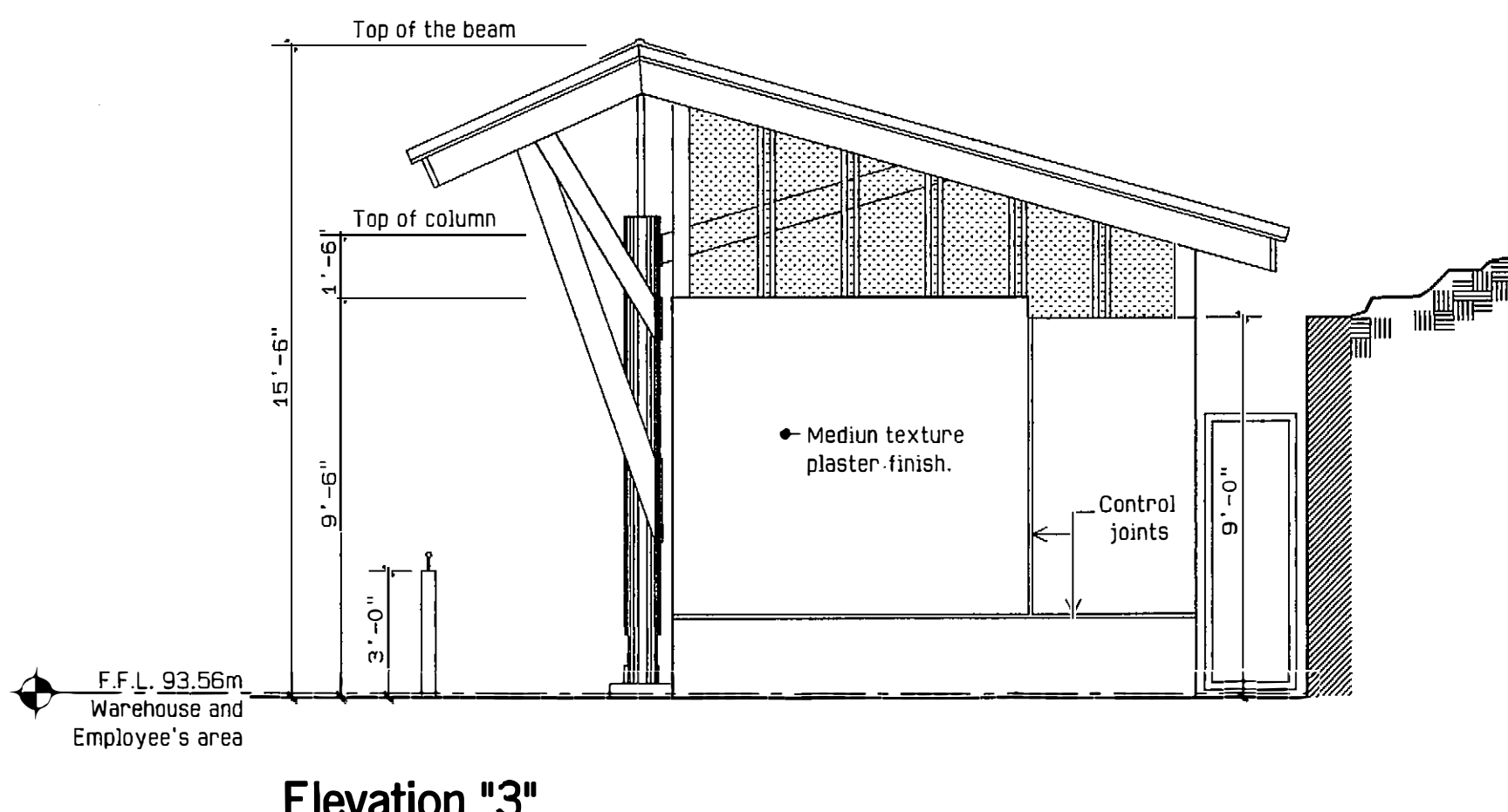
Roof & Reflected Ceiling Plan
Building #1

A1
02

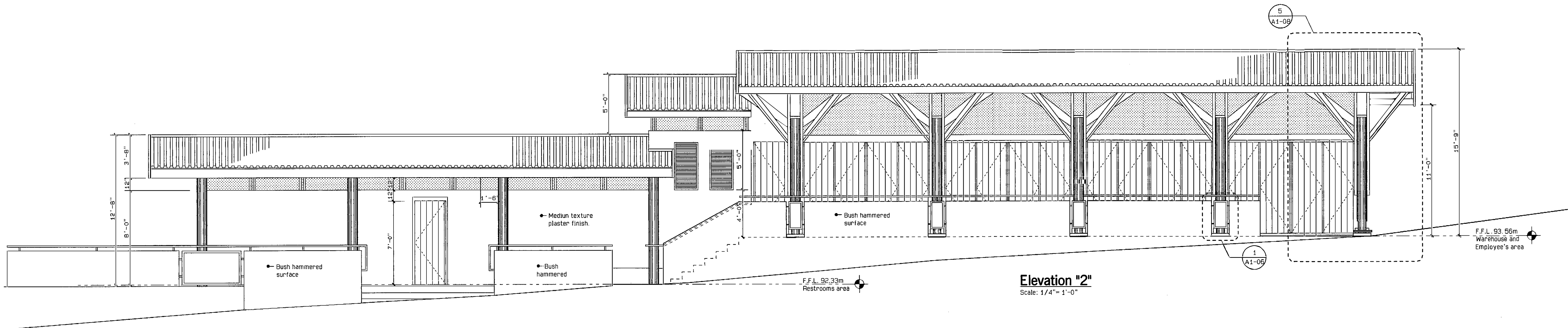
FOR REFERENCE ONLY
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Event 4339DR-PR



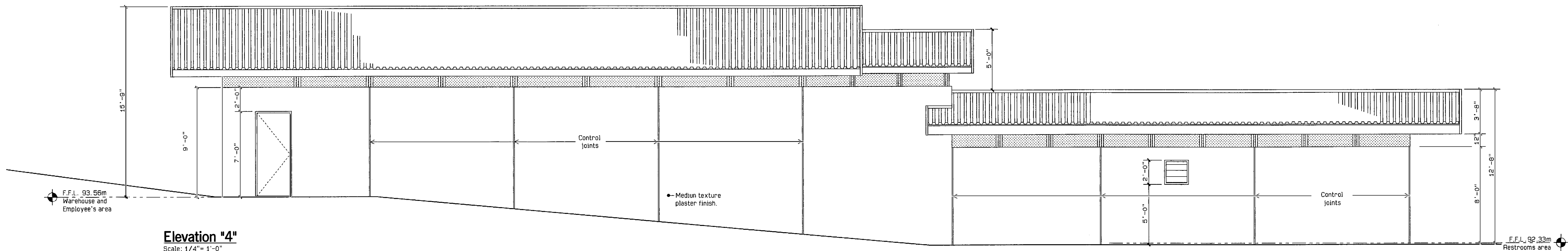
Elevation "1"
Scale: 1/4"= 1'-0"



Elevation "3"
Scale: 1/4"= 1'-0"



Elevation "2"
Scale: 1/4"= 1'-0"



Elevation "4"
Scale: 1/4"= 1'-0"

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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STEEL DECK (ROOF) NOTES / EMBARCADERO LAGO DOS BOCAS Building No. 1

- Galvanized steel roof deck shall be type "S" deck, corrugated structural metal sheathing as fabricated by BERRIDGE MANUFACTURING COMPANY, 1720 Maury Street, Houston, Texas 77026, phone numbers (800) 231-8127 / (713) 223-4971 or approved equal.

The general specifications are:
a. Panel thickness - 24 gauge
b. Panel steel conforms to ASTM A446-85 Grade C.
c. The exterior finish shall be full-strength KYNAR 500, Galvalume fluorocarbon coating. Top side film thickness shall be 0.70 to 0.90 mil over a 0.25 to 0.30 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil. The interior finish of this material shall be coated with a primer with a minimum dry film thickness of 0.25 mil.
d. Color shall be: Terra Cotta.
- All pertinent details of ridges, flashings and channels for steel roofs will be submitted by the Contractor and/or manufacturer of the galvanized steel roof. These will be approved by the Architect before proceeding to their fabrication.
- All steel roofing shall be connected to ground (grounded) to conform with Article 250 from the National Electric Code, 1993 edition.

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE

REVISIONS

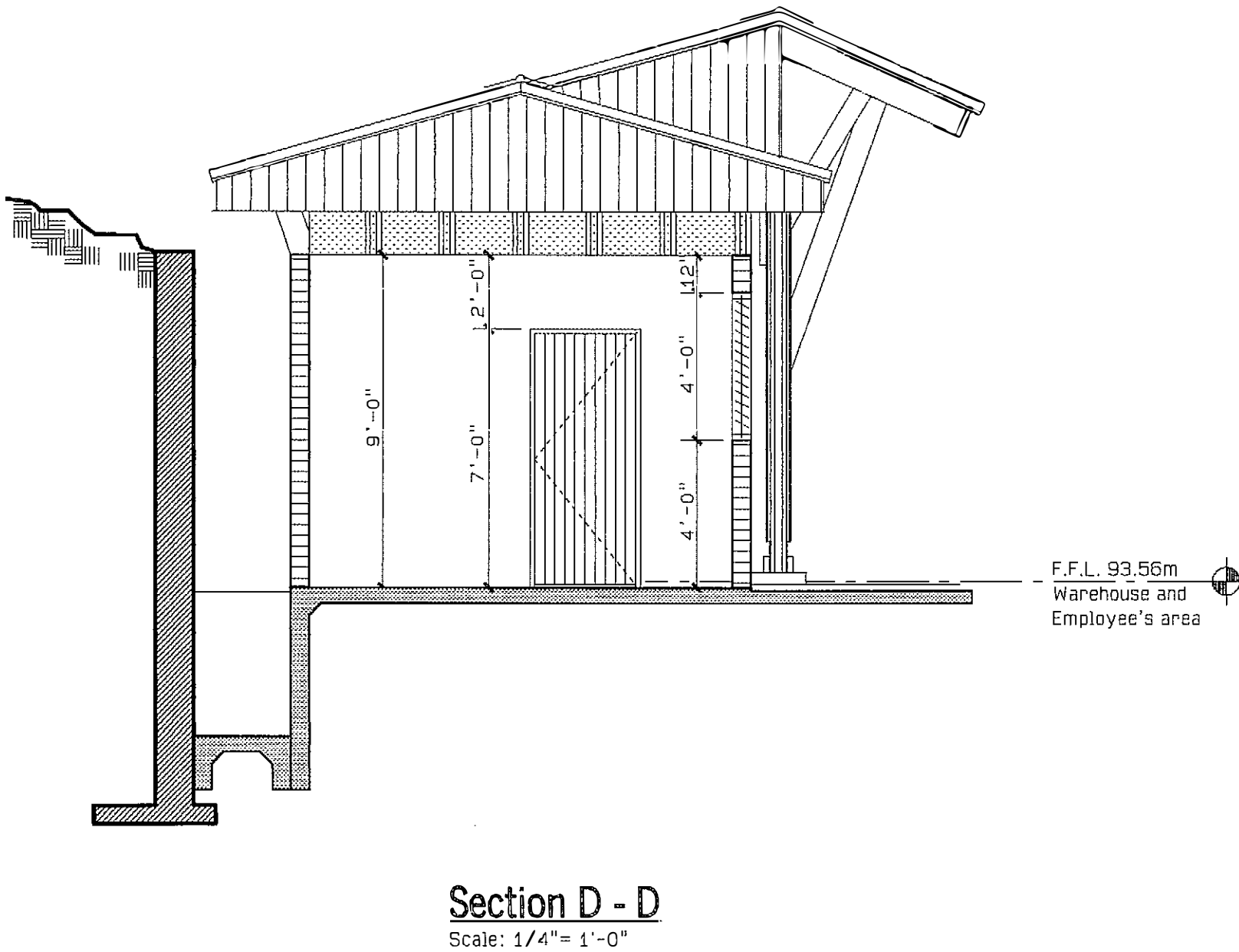
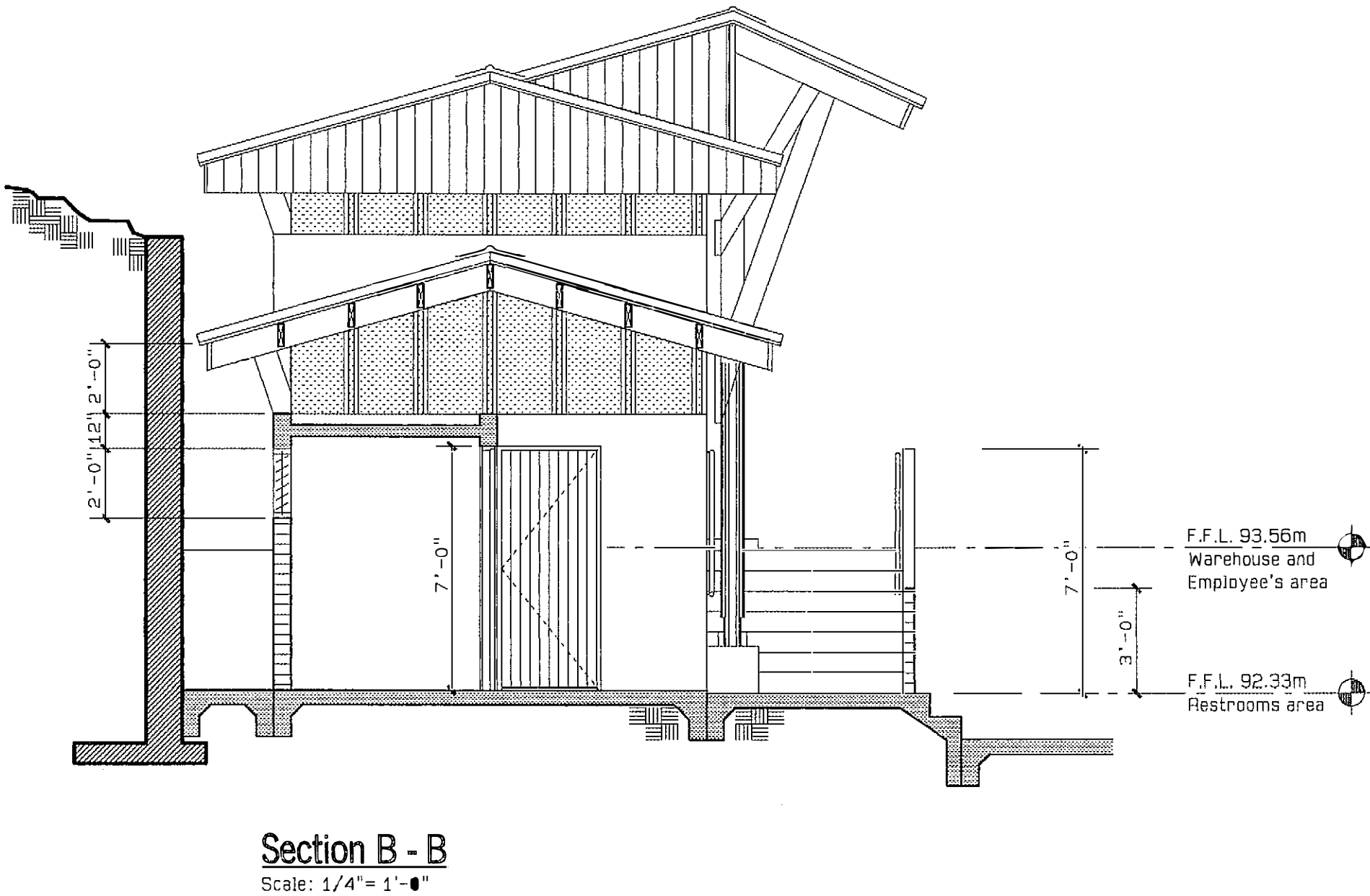
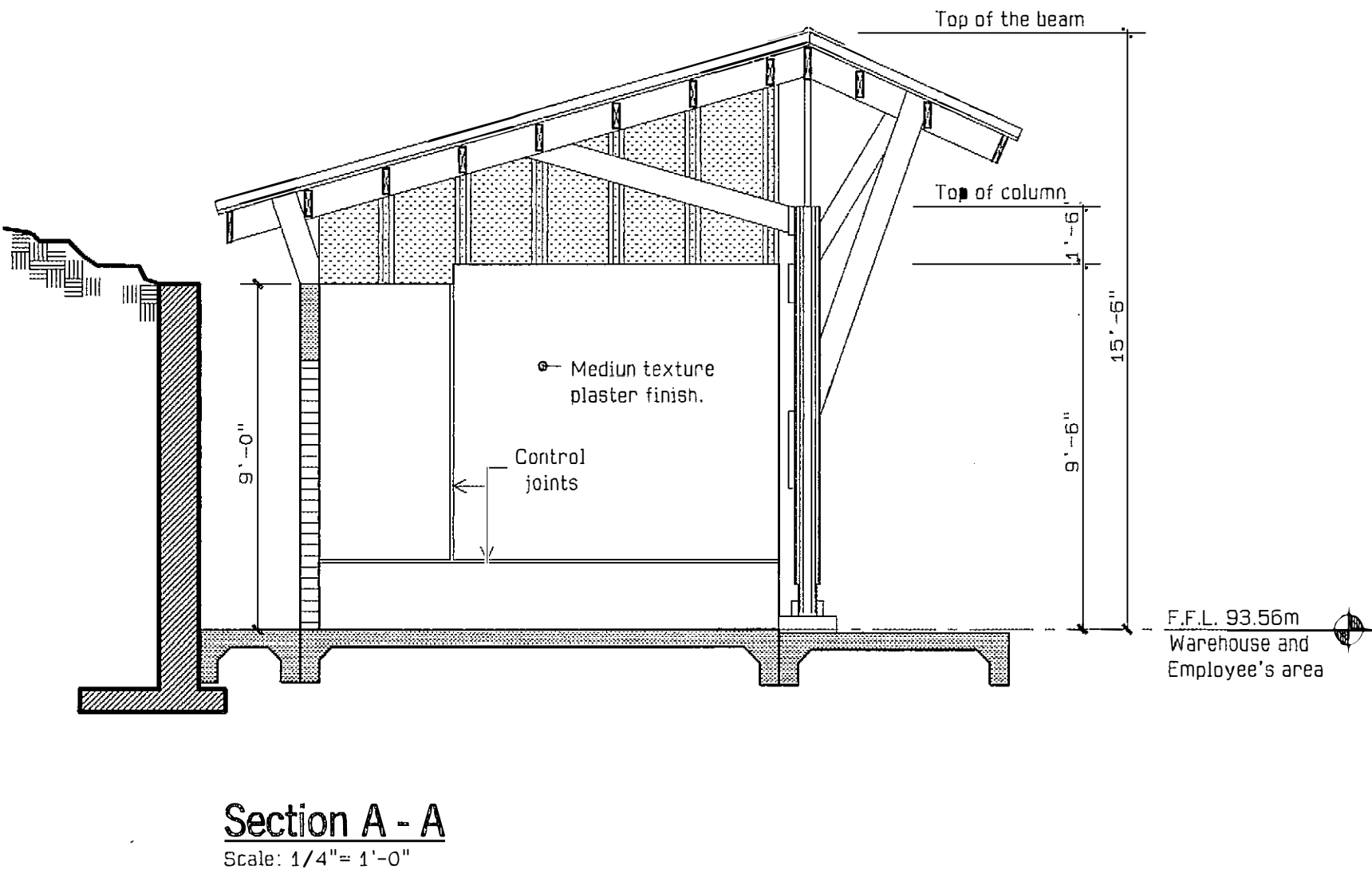
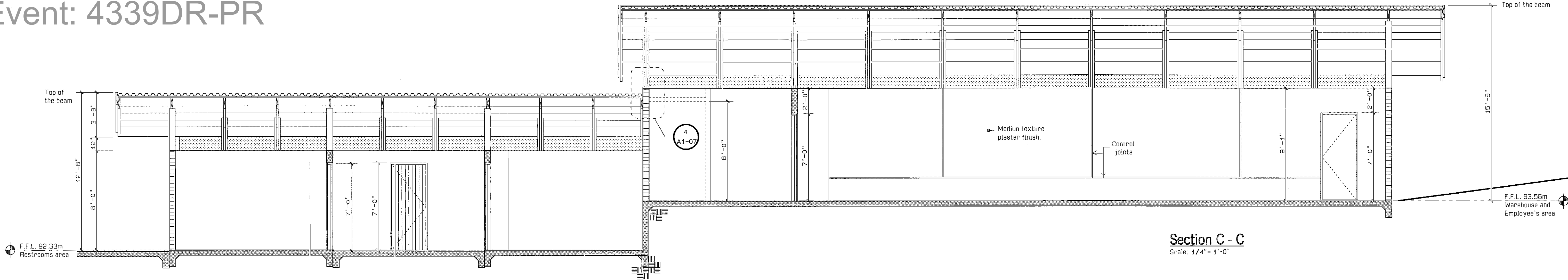
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Elevations
Building #1

A1
03

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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Event: 4339DR-PR



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EMBARCADERO LAGO DOS BOCAS
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PUERTO RICO

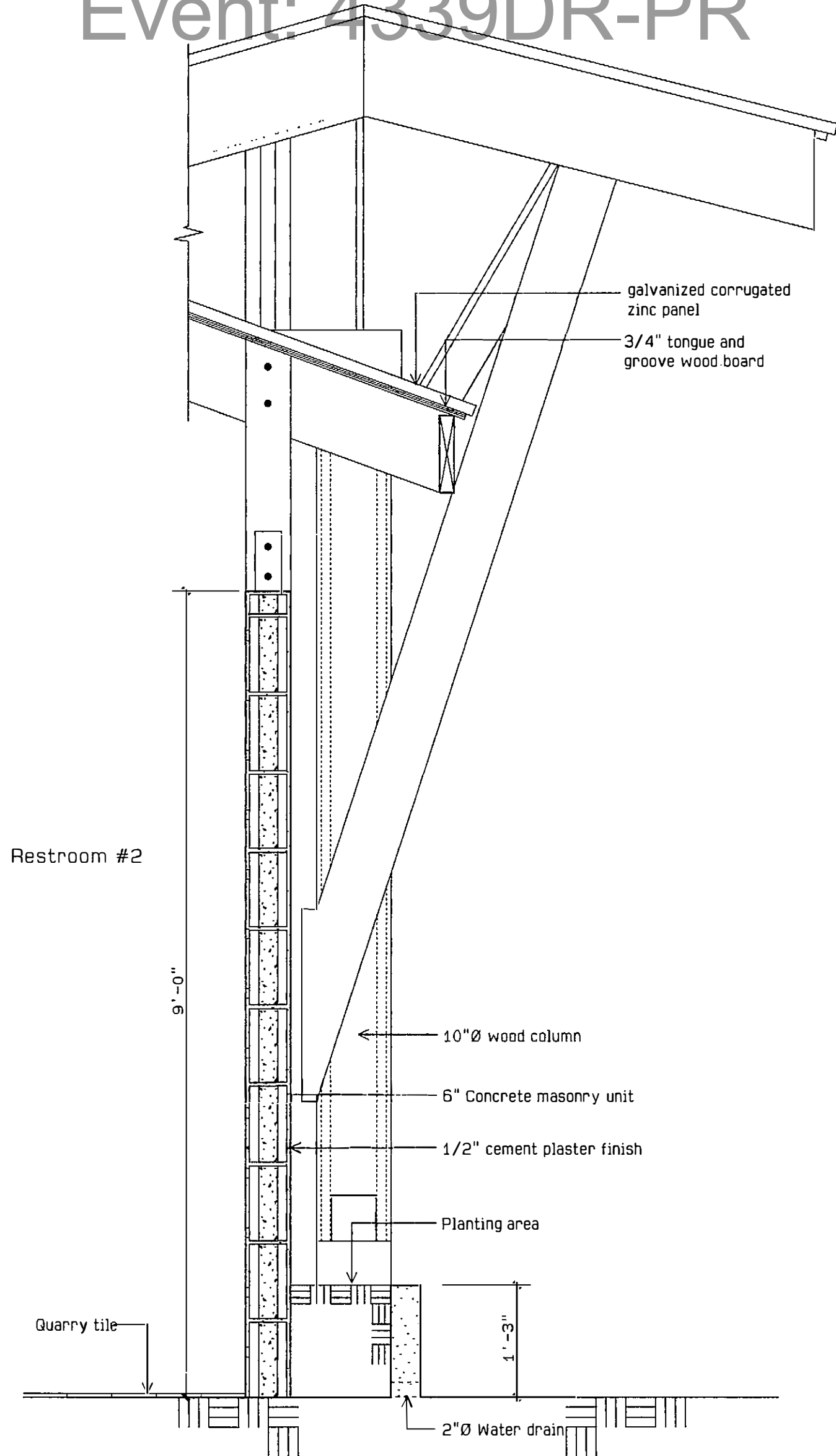
DATE	REVISIONS

SCALE:1/4":1'-0"

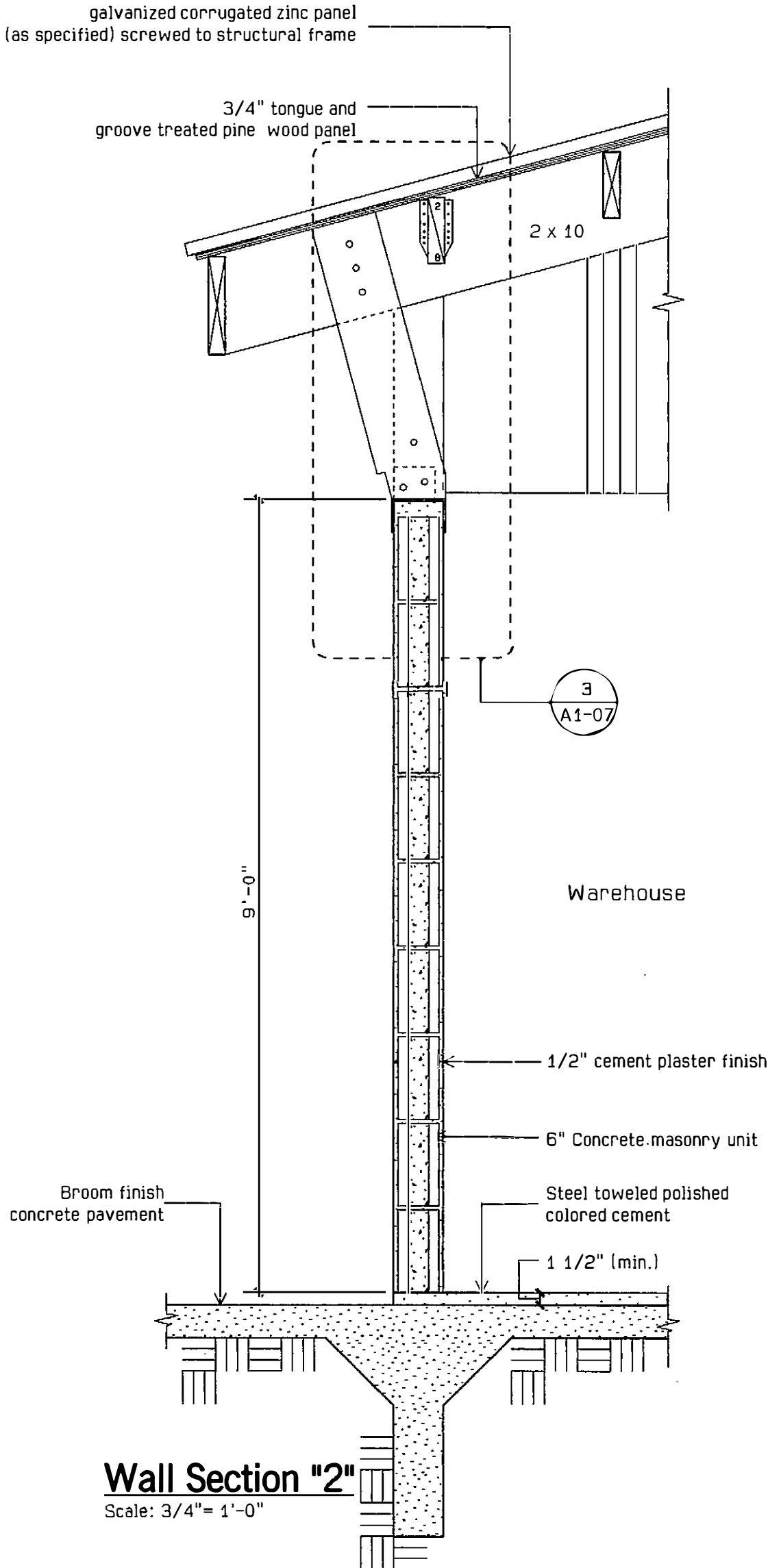
Sections
Building #1

A1
04

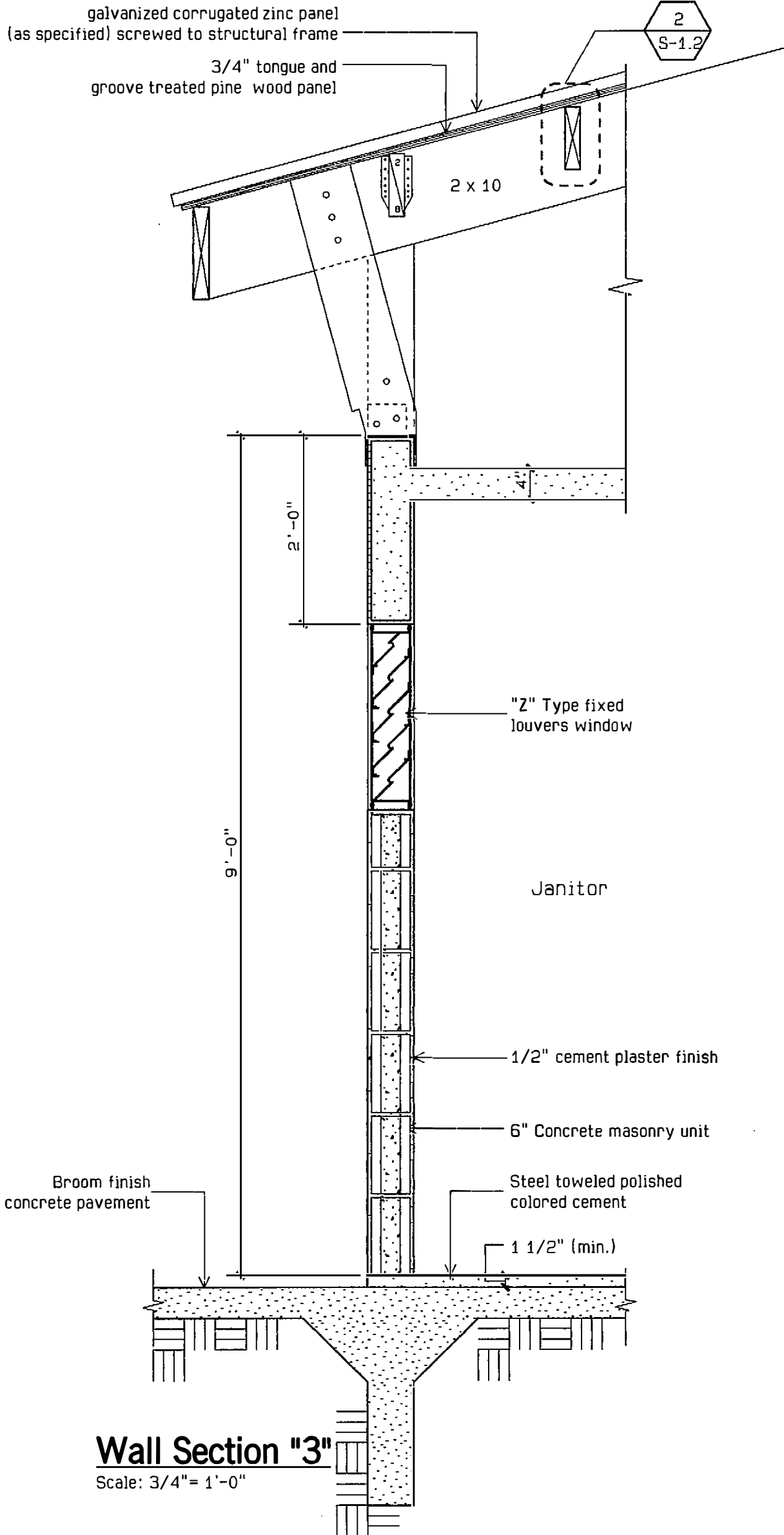
FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



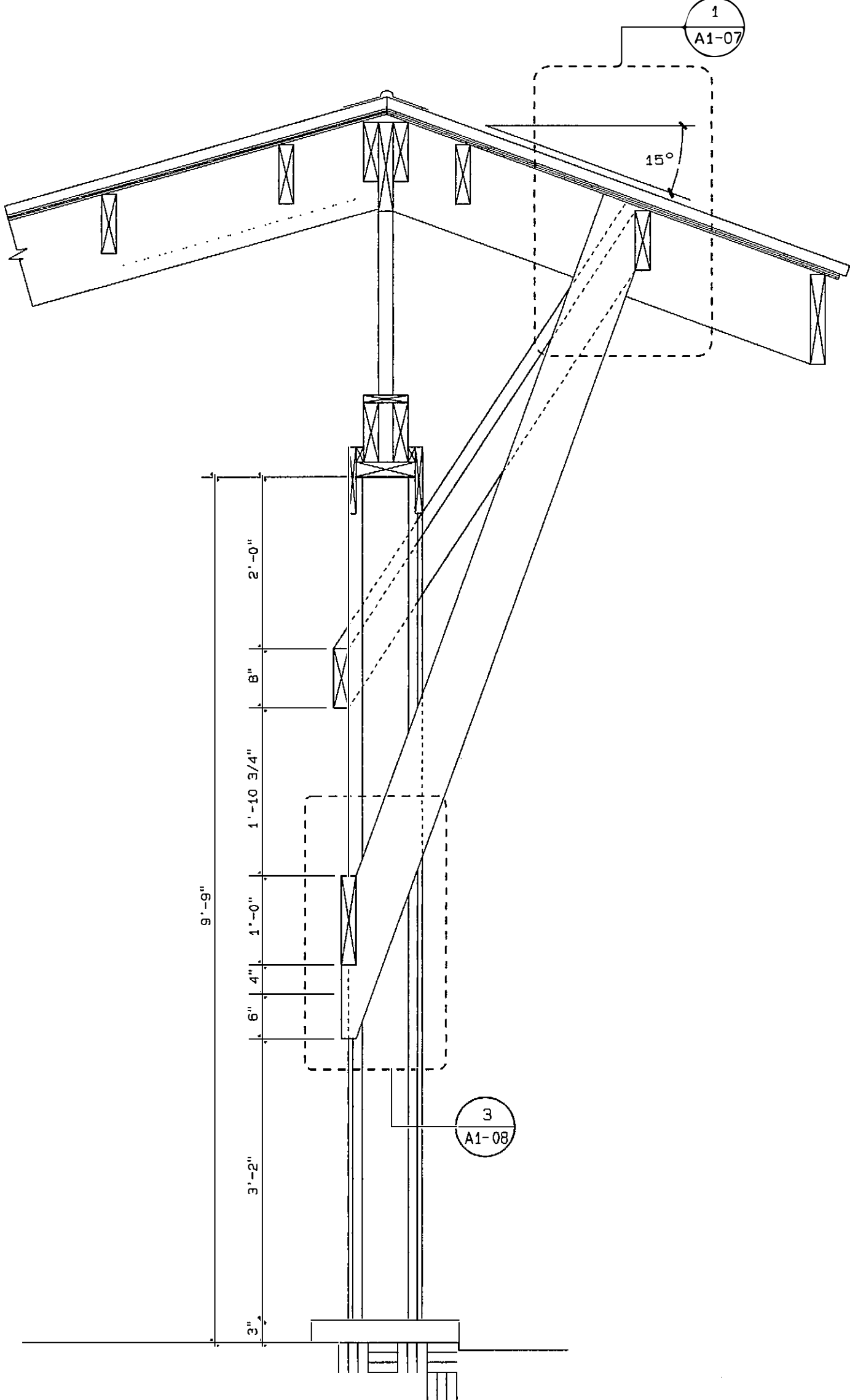
Wall Section "1"
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Wall Section "2"
Scale: 3/4"= 1'-0"



Wall Section "3"
Scale: 3/4"= 1'-0"

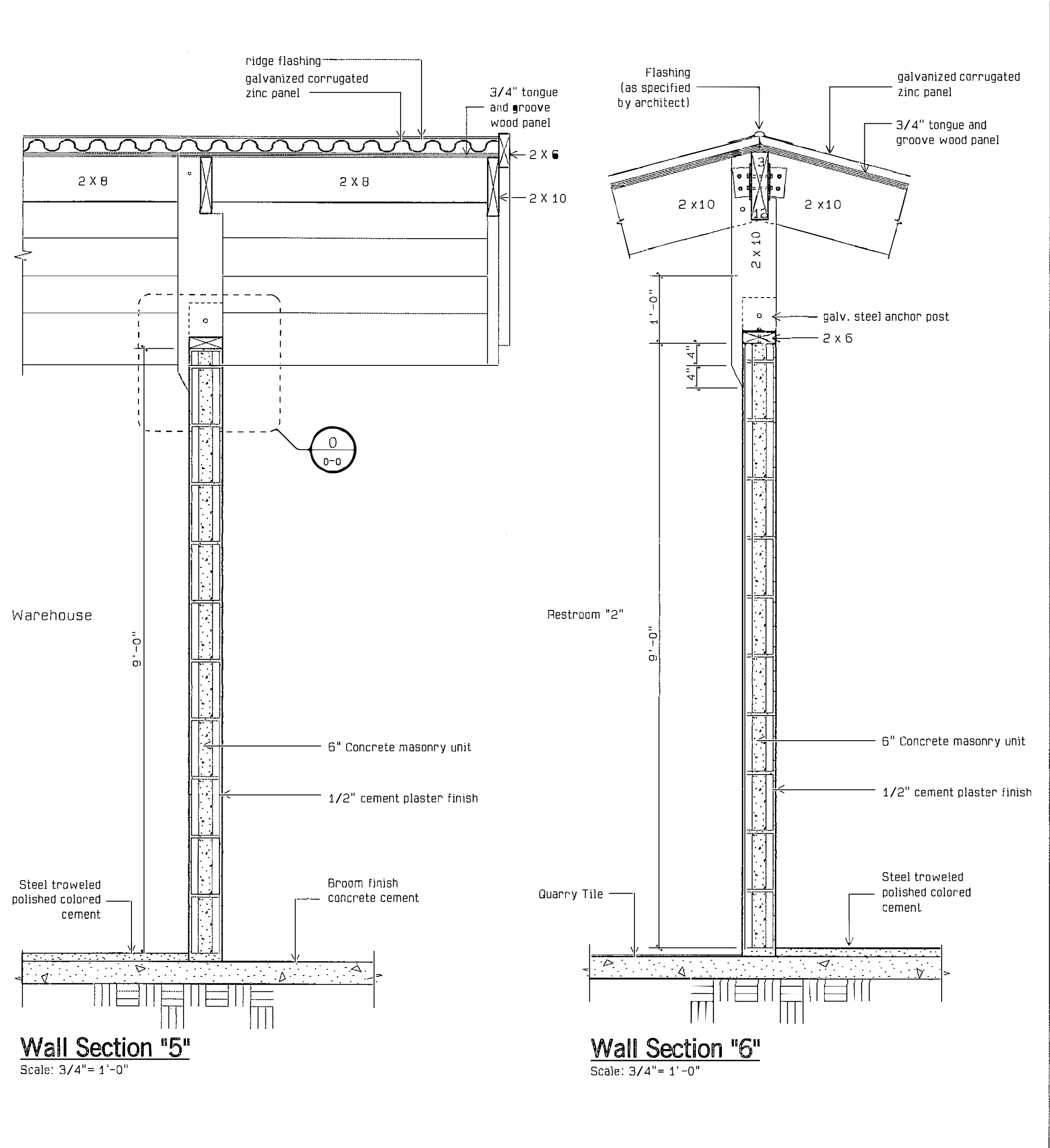
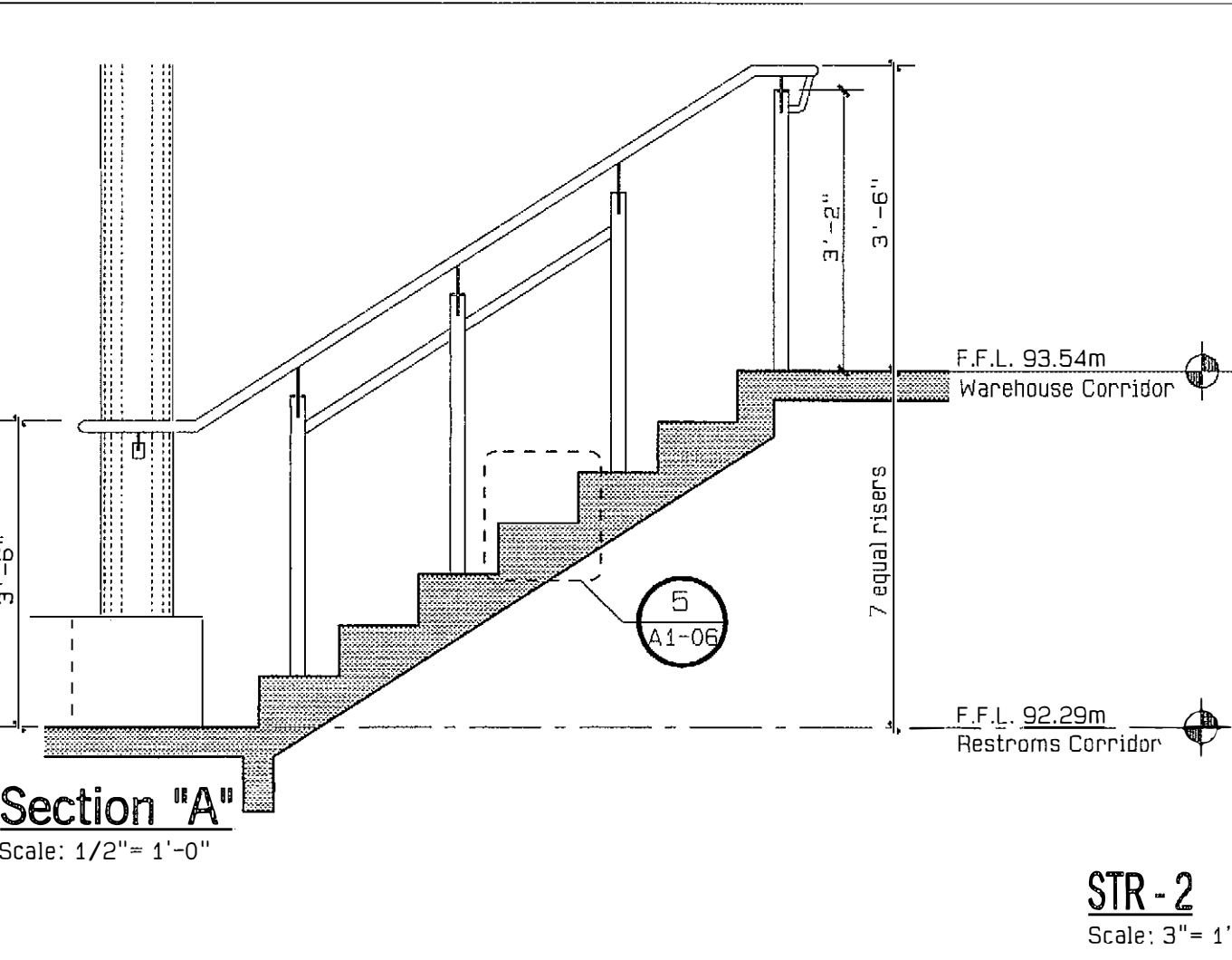
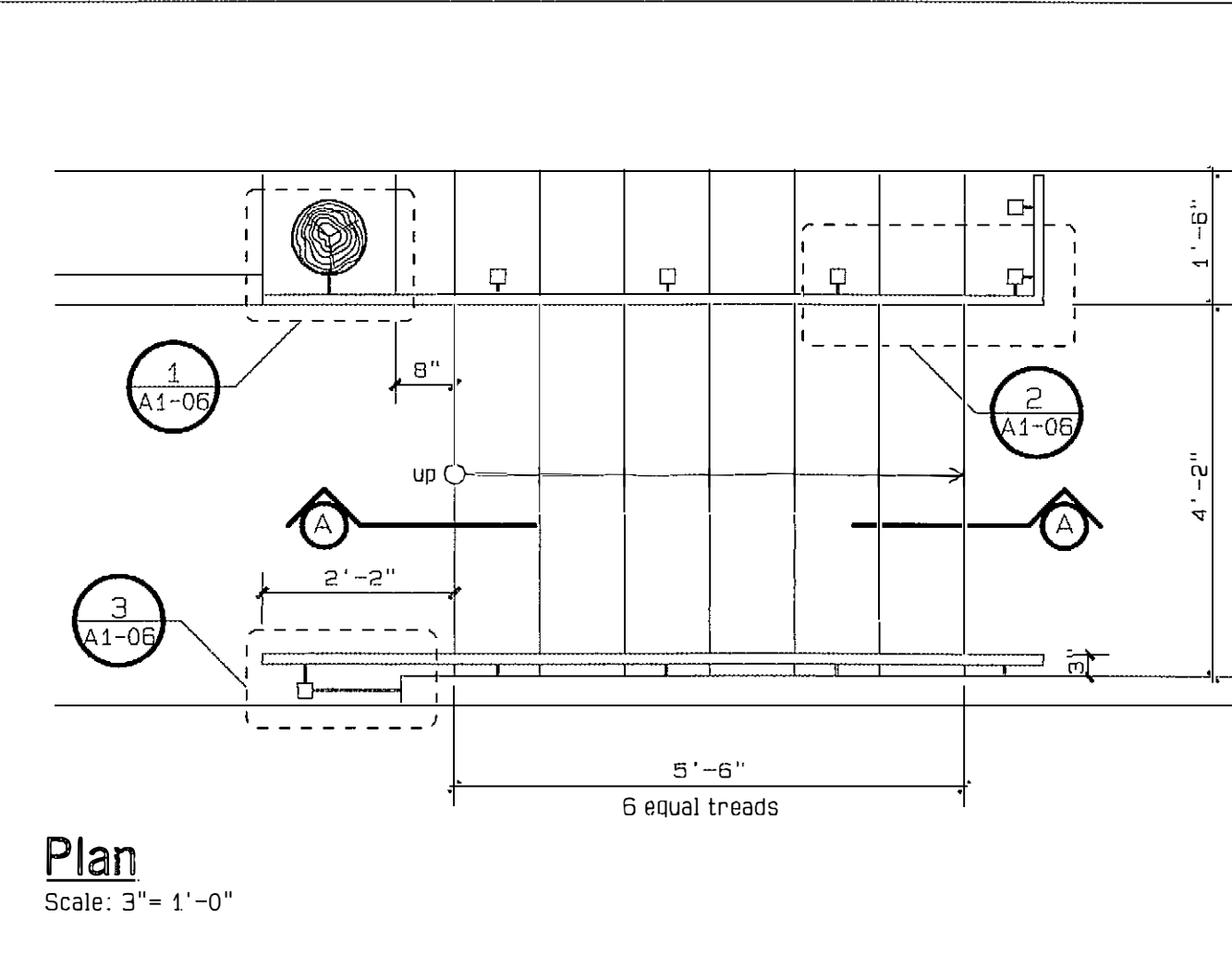
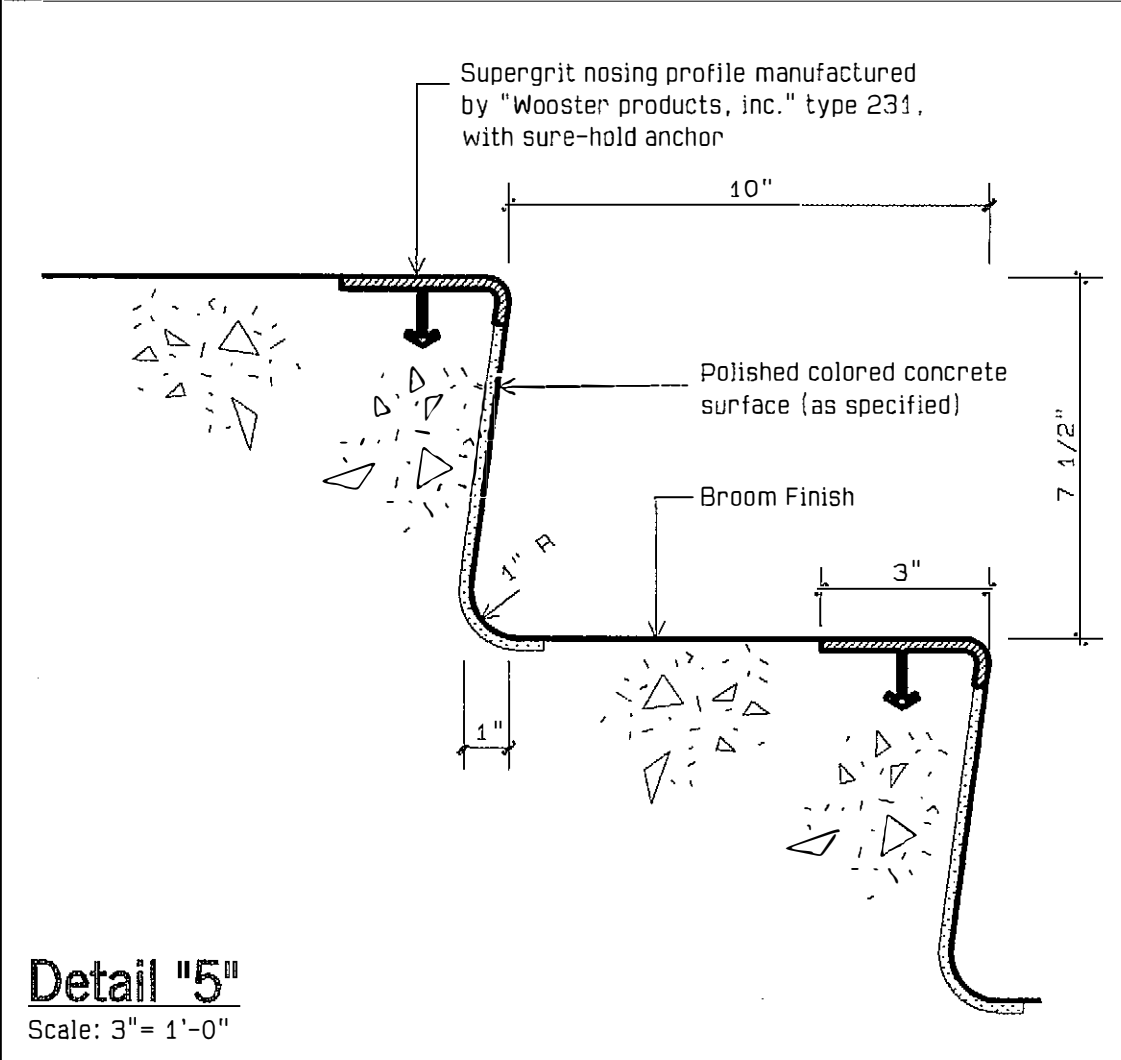
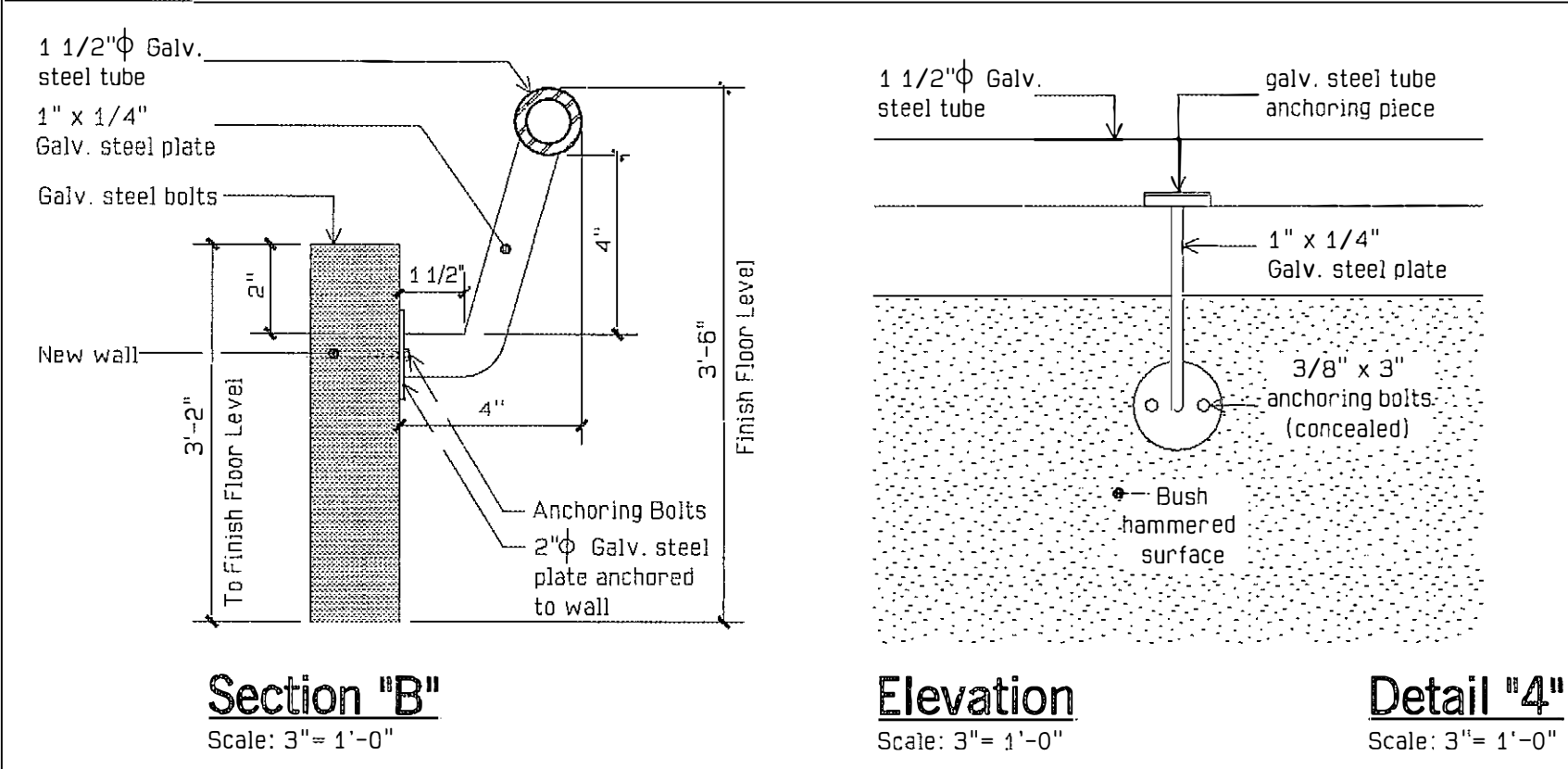
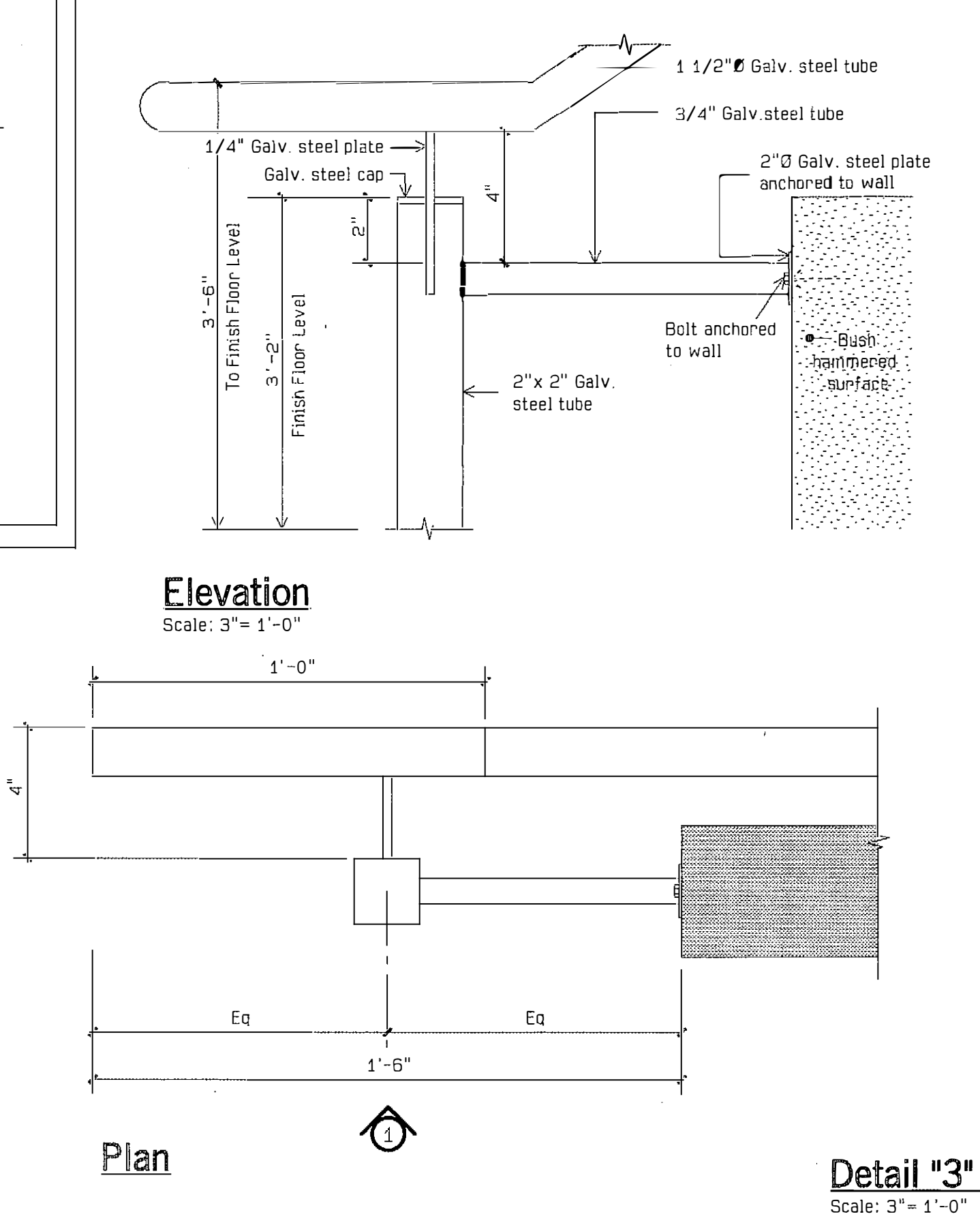
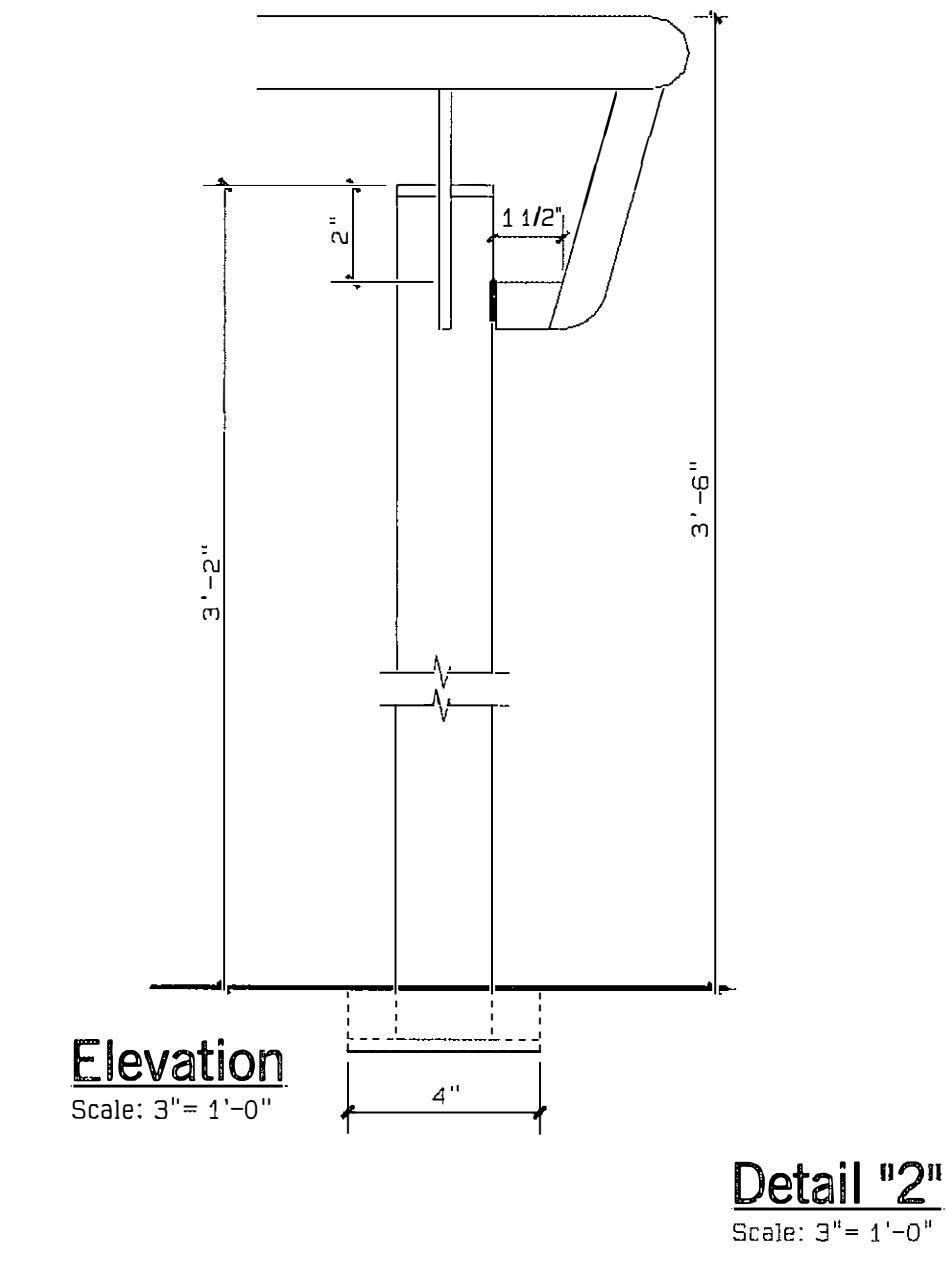
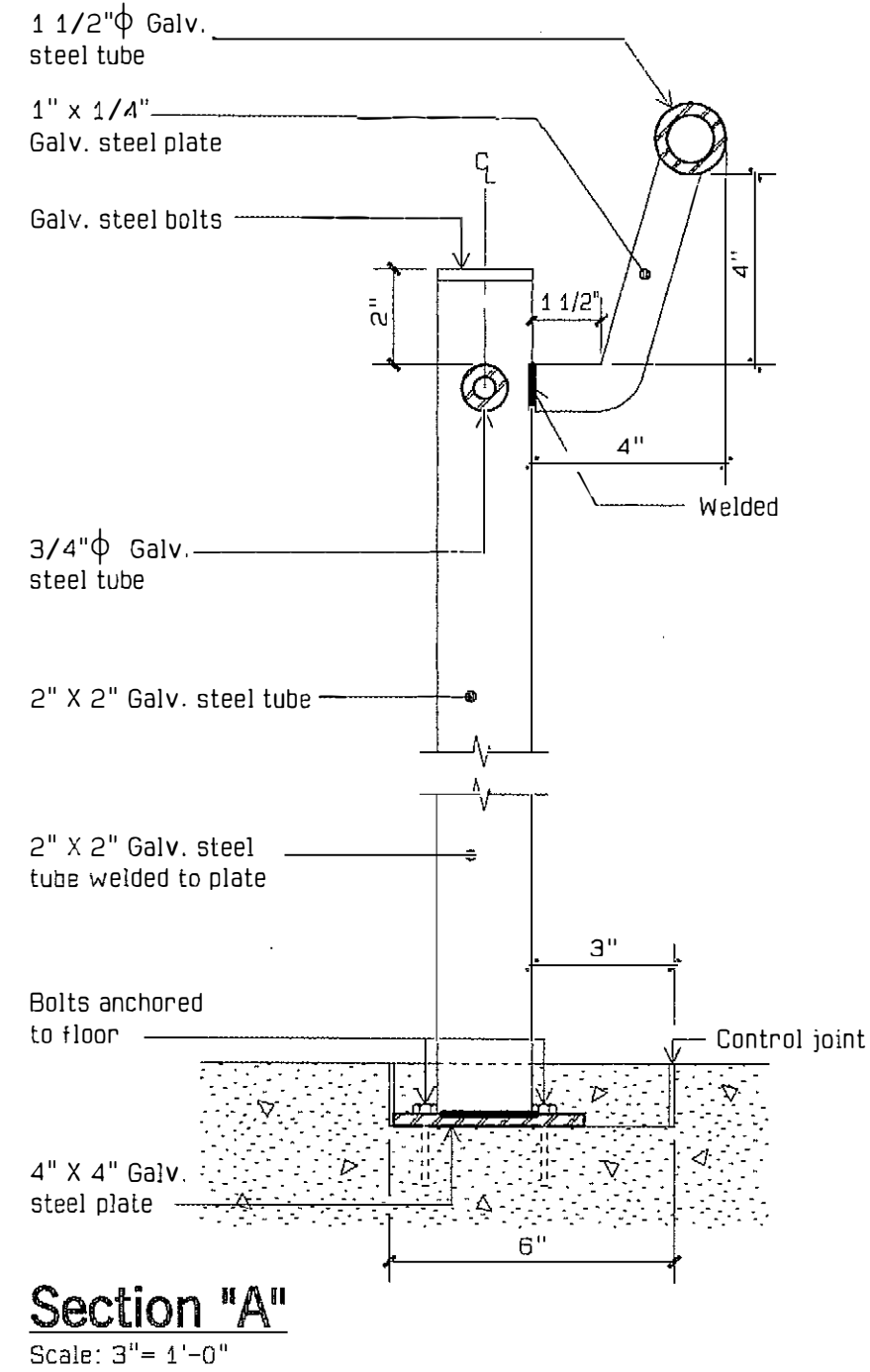
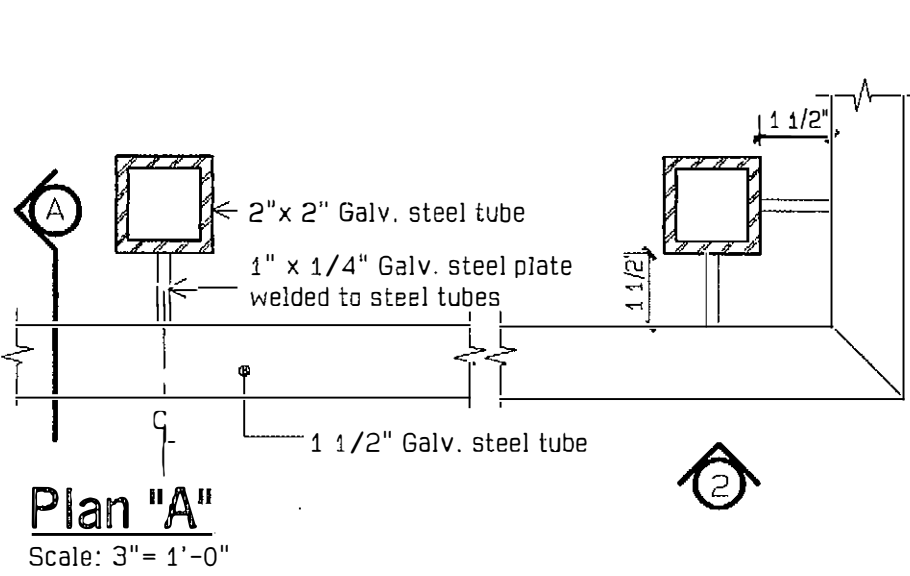
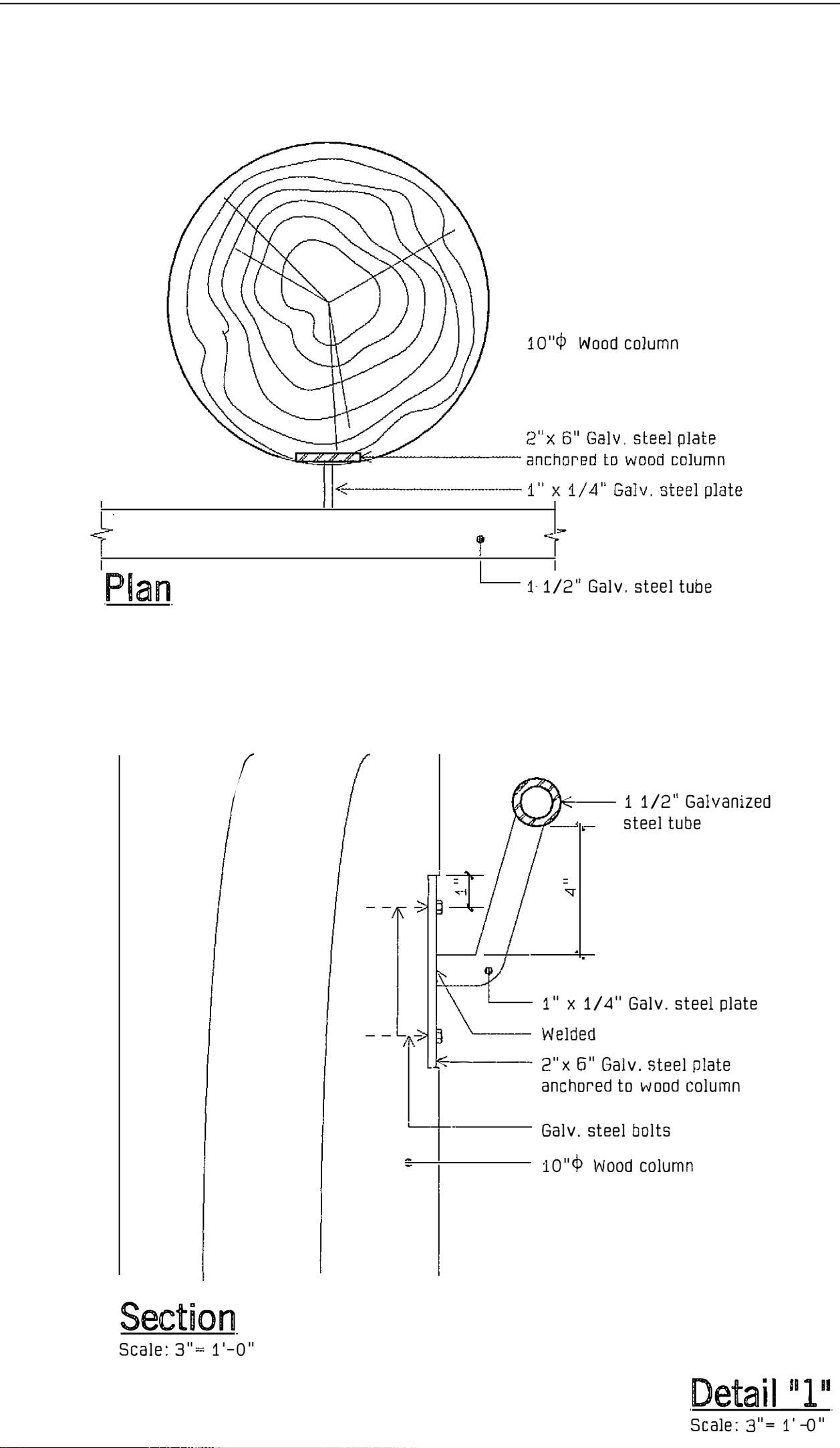
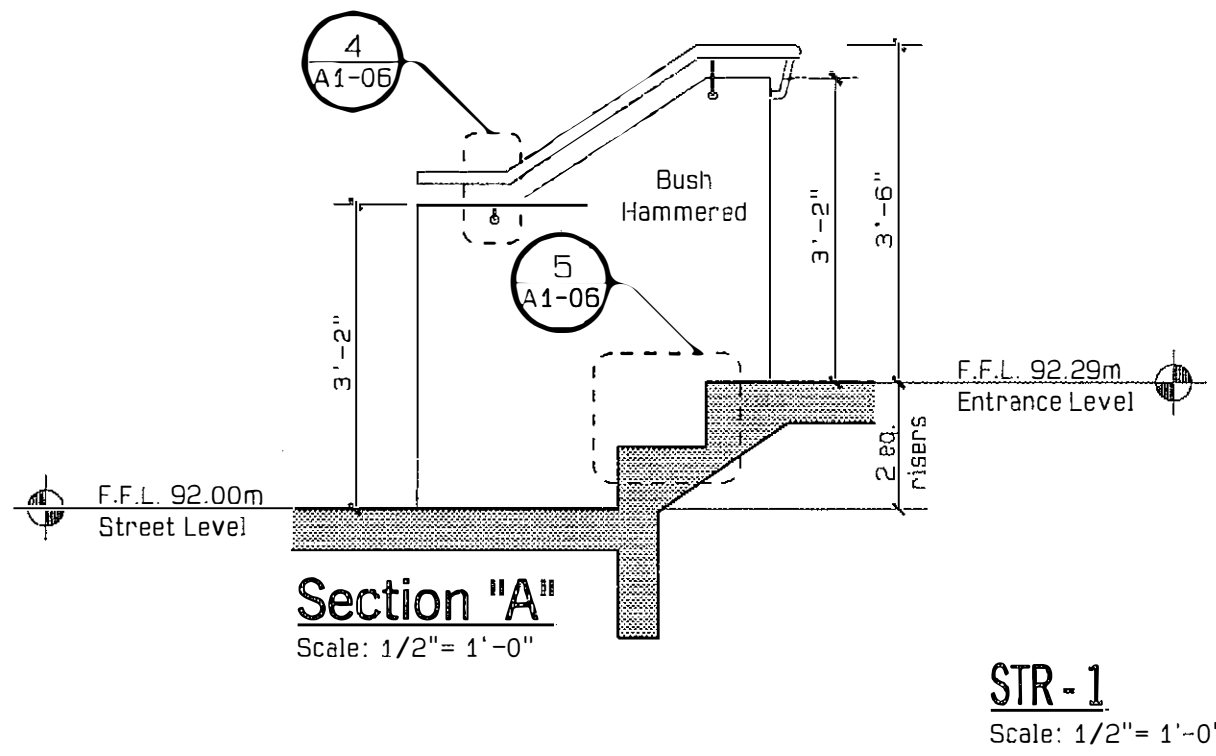
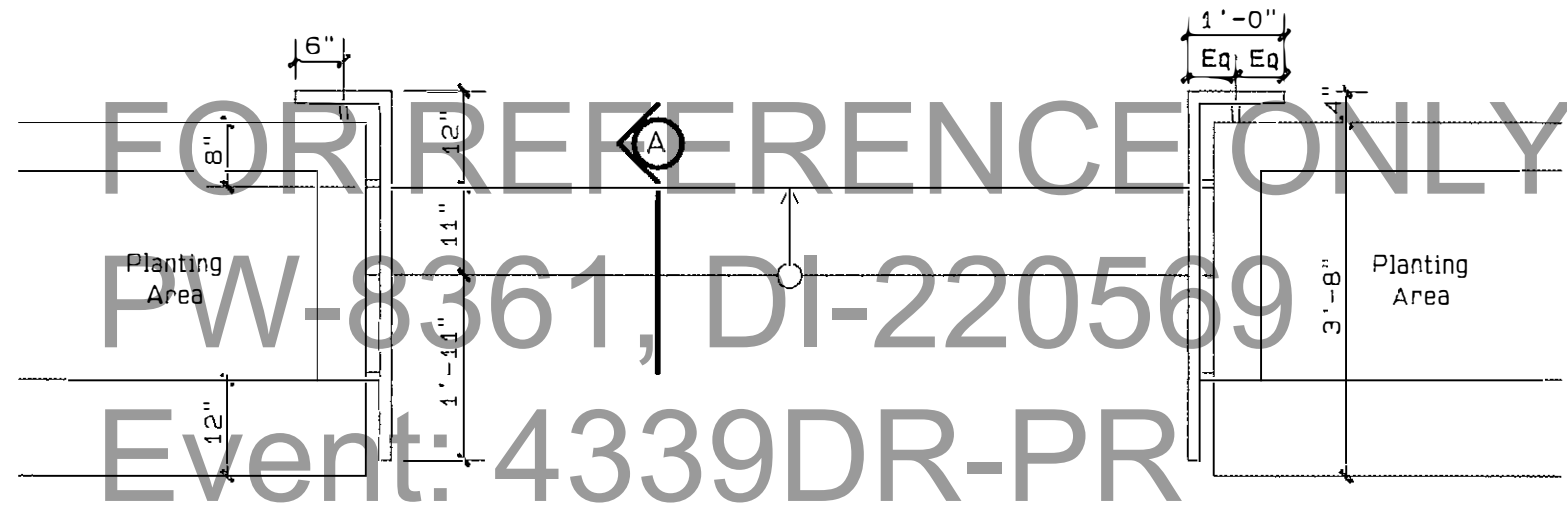


Wall Section "4"
Scale: 3/4"= 1'-0"

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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DATE	REVISIONS

FED AID H'WAY PROJECT. NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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EMBARCADERO LAGO DOS BOCAS
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PUERTO RICO

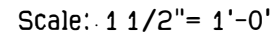
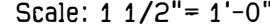
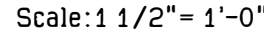
DATE REVISIONS

SCALE:3/4":1'-0"

Wall Sections, Details
Building #1

A1
06

	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	85	181
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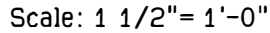
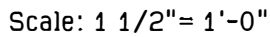
Section "A'
Scale: 1 1/2" = 1'-0'

Partial Side View

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

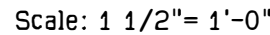
Wood Column Anchore to Concrete Block Wall - Detail "3"

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



Rafter / Joist Connection - Detail "1"

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



Section "A"
Scale: 1 1/2" = 1'-0"

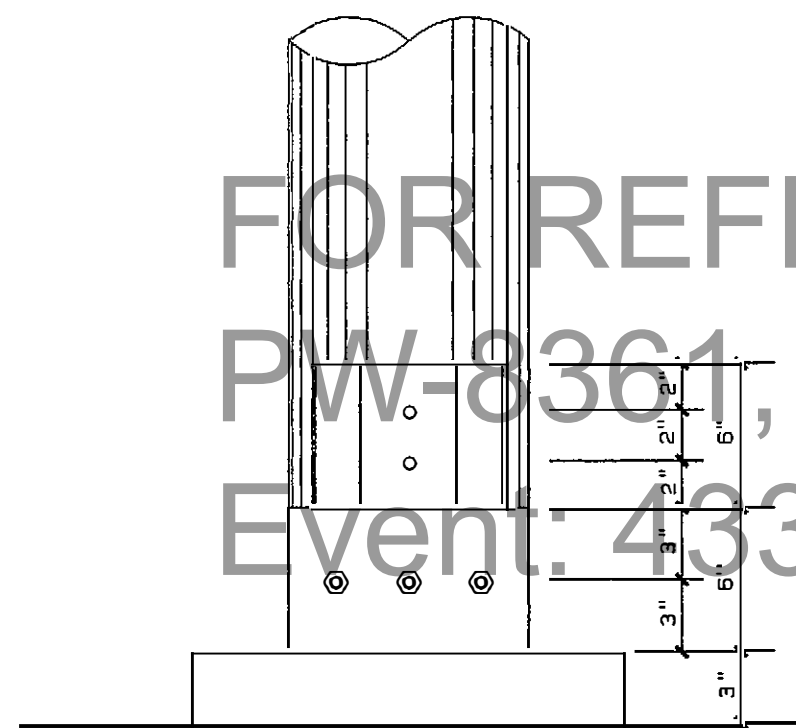
Bottom View

Scale: $1 \frac{1}{2}'' = 1'-0''$

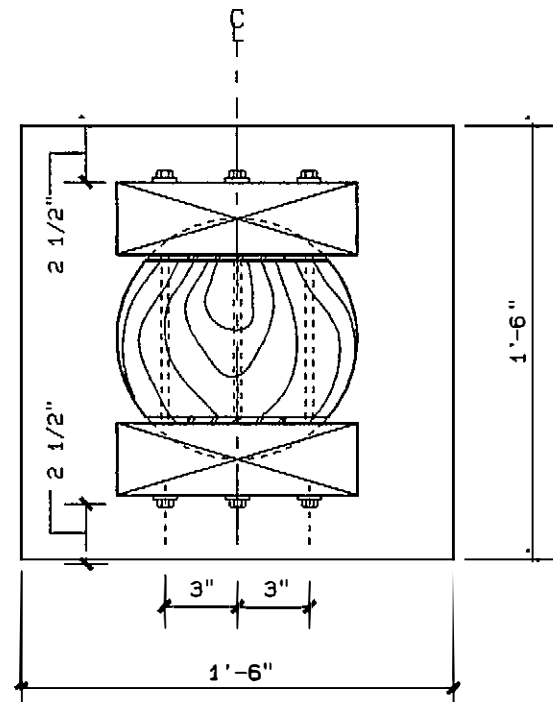
Rafter Connection at Ridge - Detail "2"

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

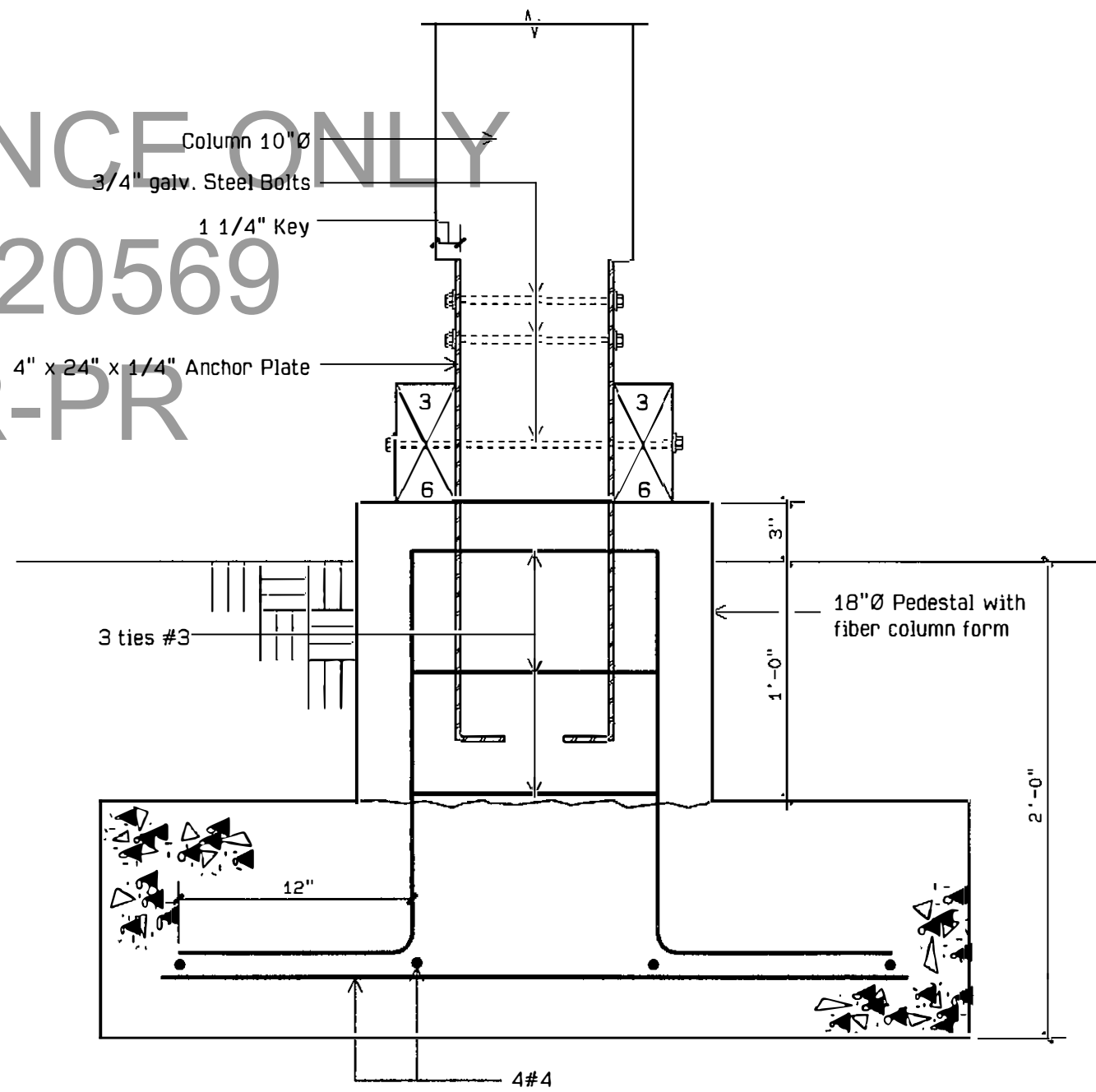
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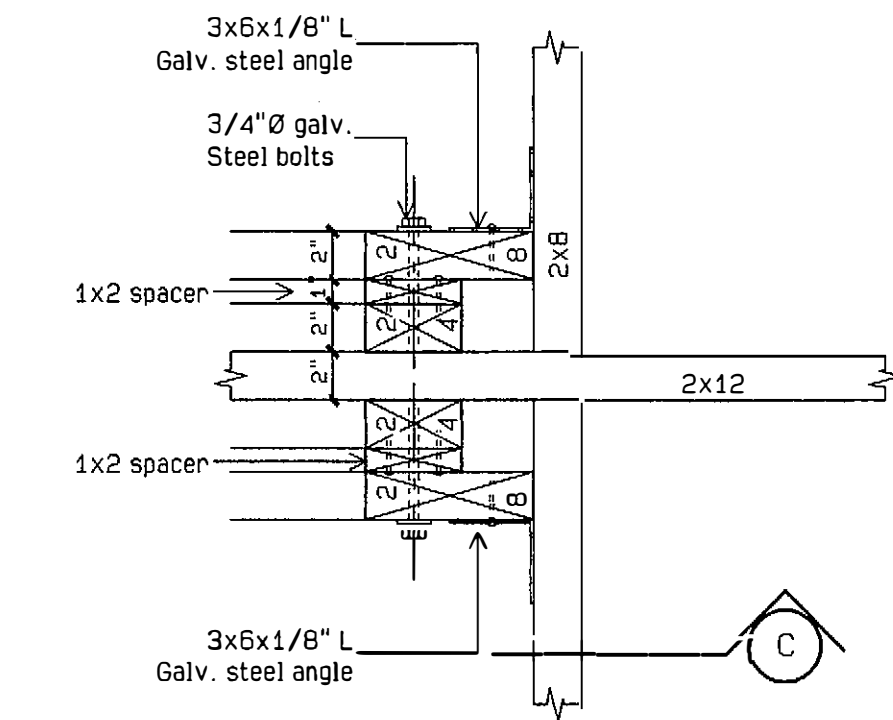
Typical Column Base Detail
Building A
Scale: 1 1/2" = 1'-0"



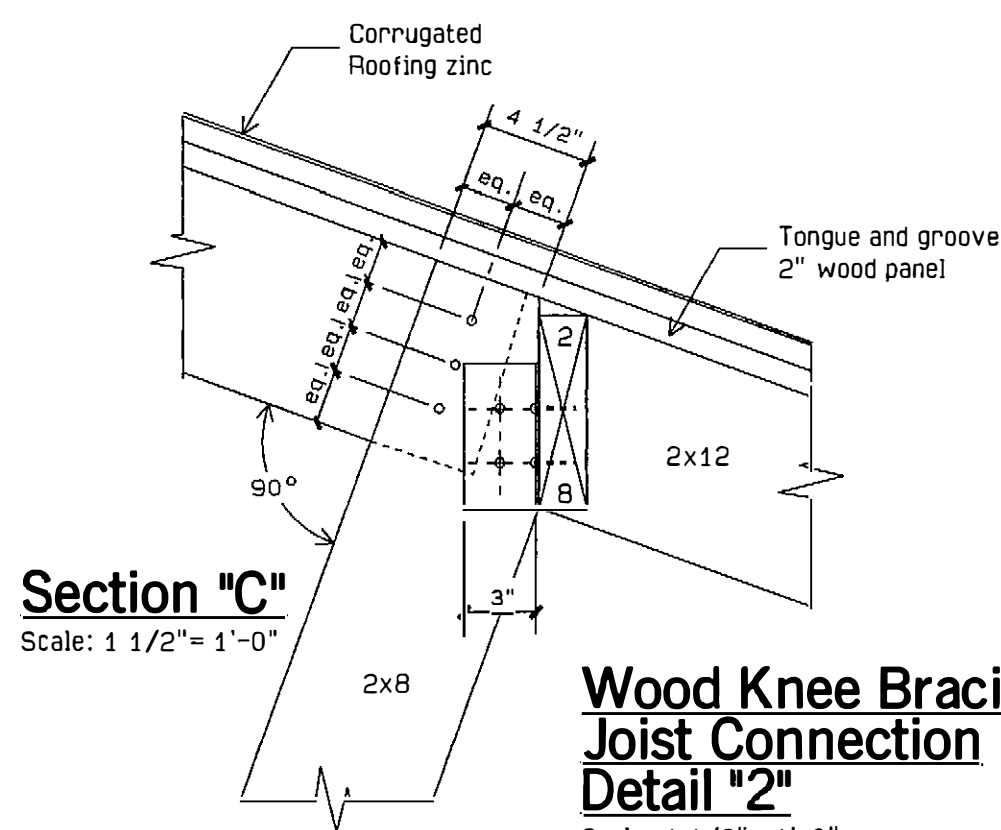
Plan
Building A
Scale: 1 1/2" = 1'-0"



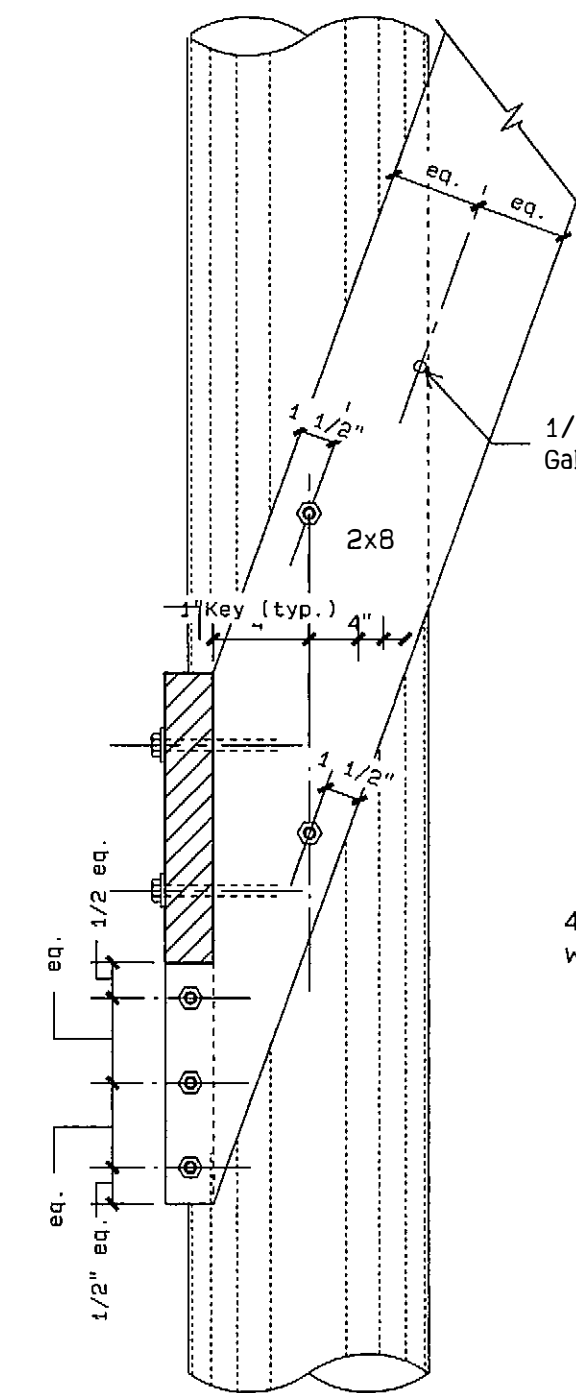
Typical Column Footing
Scale: 1 1/2" = 1'-0"



Plan Top View
Scale: 1 1/2" = 1'-0"

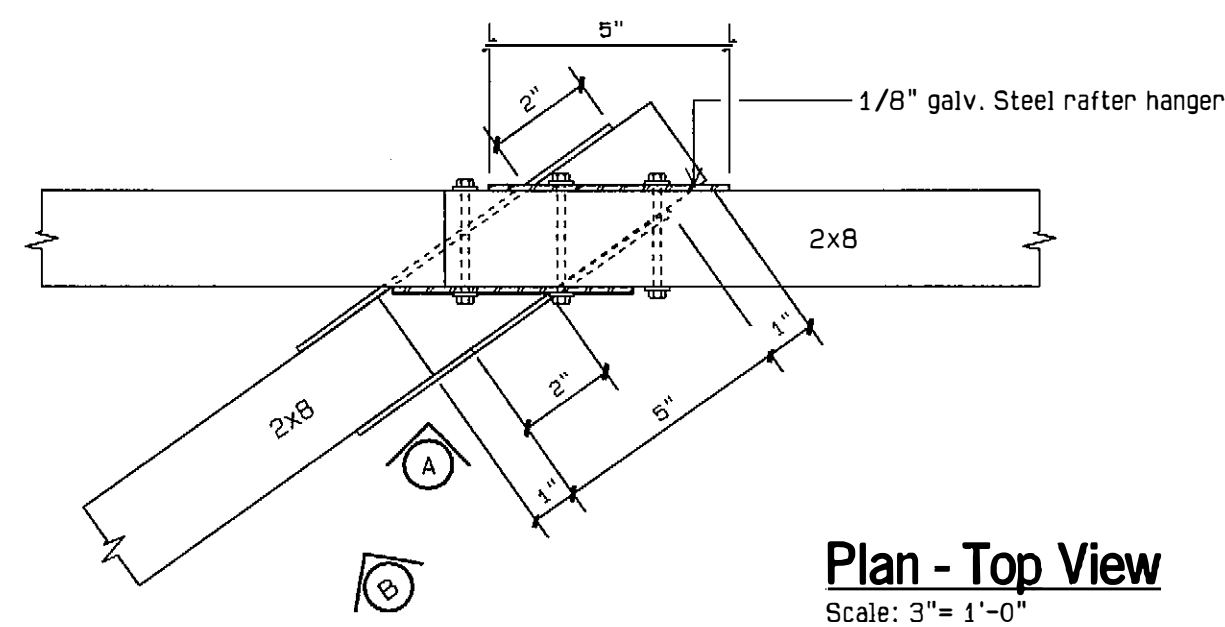


**Wood Knee Bracing/
Joist Connection
Detail "2"**
Scale: 1 1/2" = 1'-0"

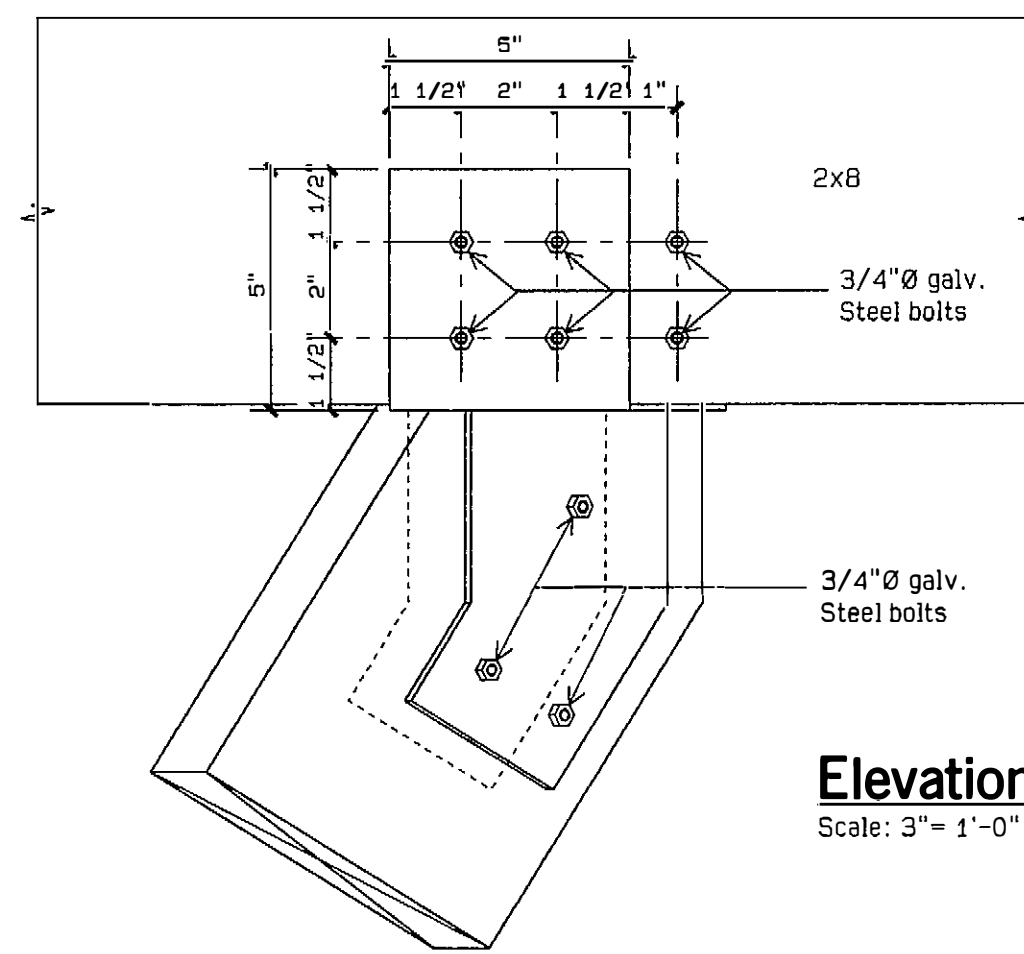


*See structural
drawing on sheets
S-1.0, 1.1 and 1.2

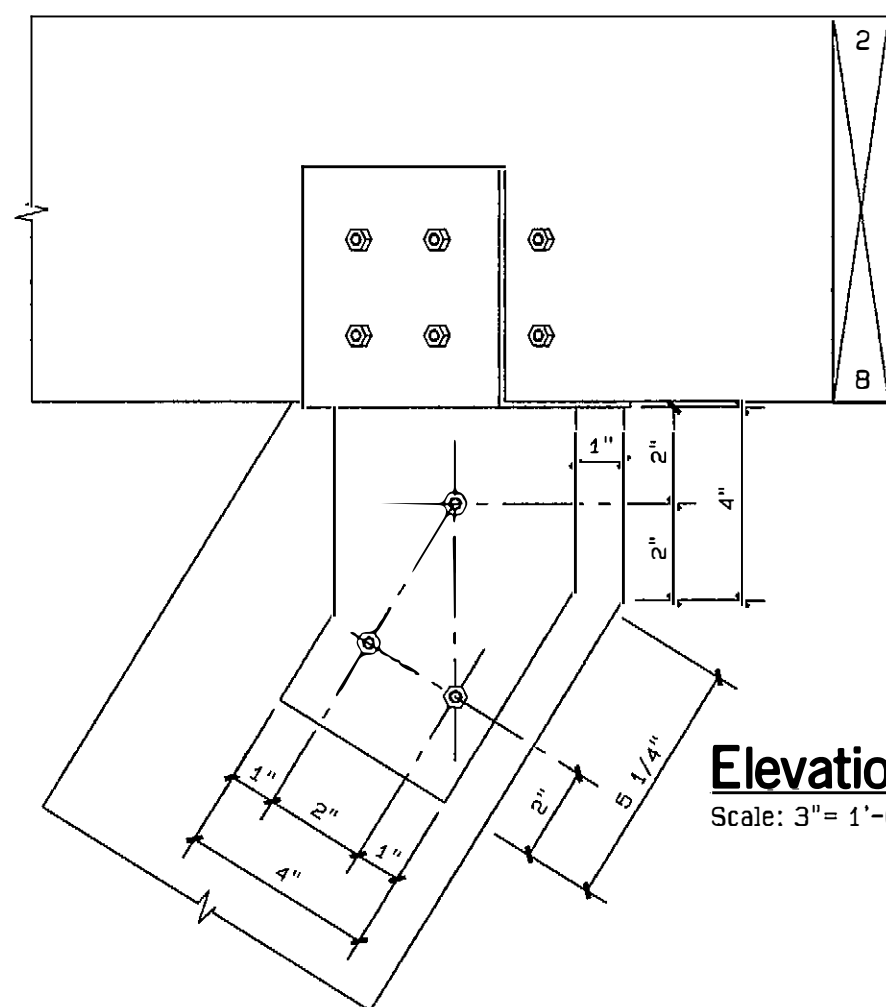
**Wood Knee Bracing/
Column Connection
Detail "3"**
Scale: 1 1/2" = 1'-0"



Plan - Top View
Scale: 3" = 1'-0"

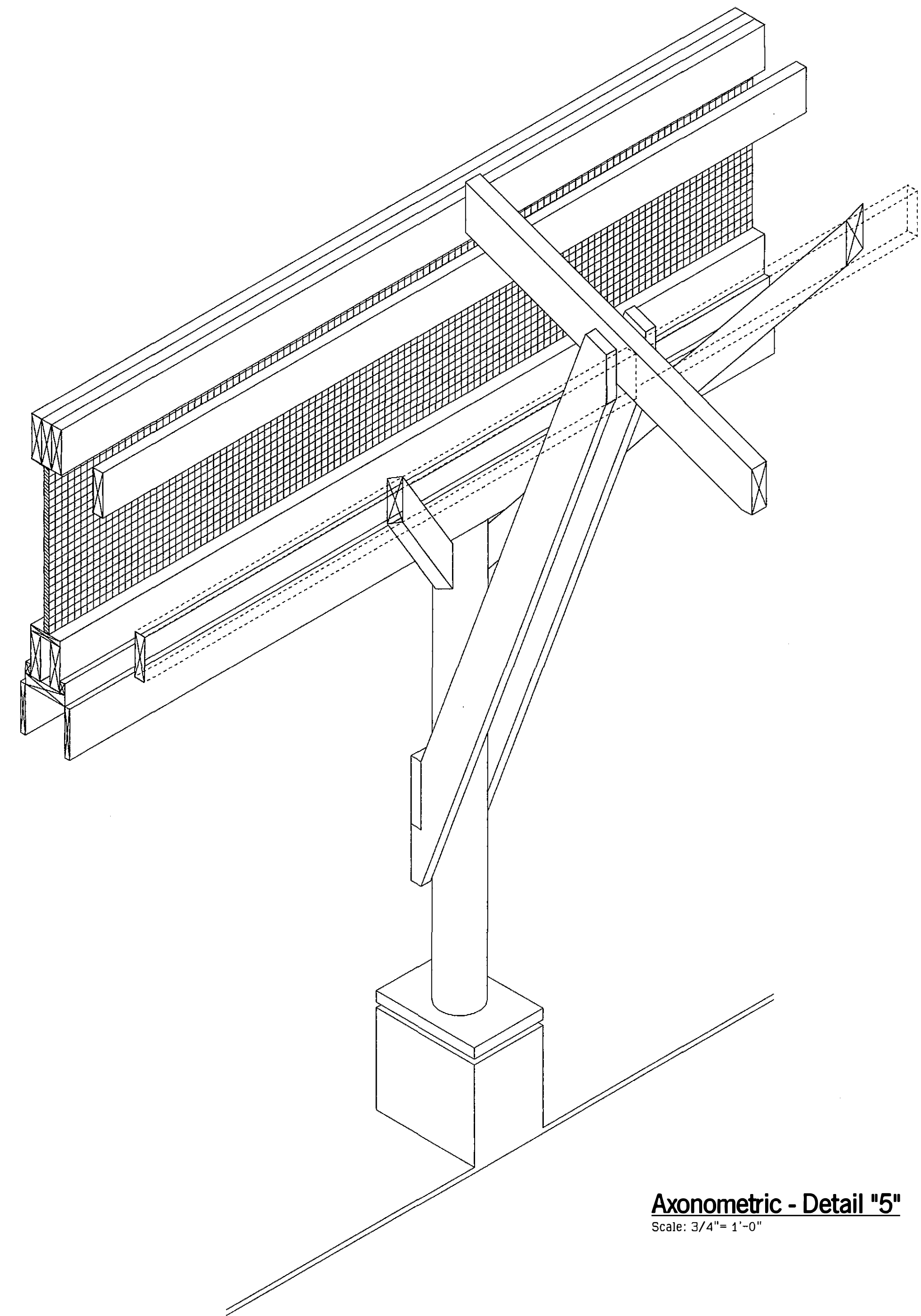


Elevation "A"
Scale: 3" = 1'-0"



Elevation "B"
Scale: 3" = 1'-0"

**Joist - Rafter Connection
at Roof Overhang - Detail "4"**
Scale: 3" = 1'-0"



Axonometric - Detail "5"
Scale: 3/4" = 1'-0"

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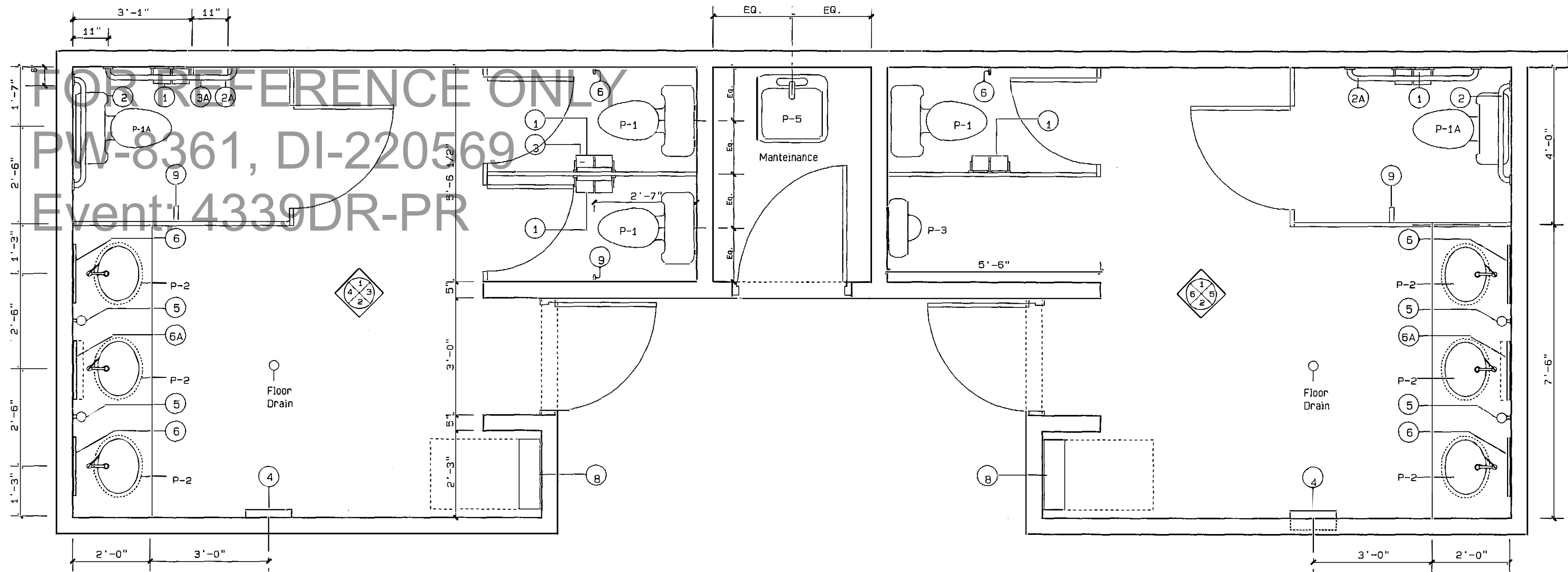
EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE REVISIONS

SCALE: As Shown

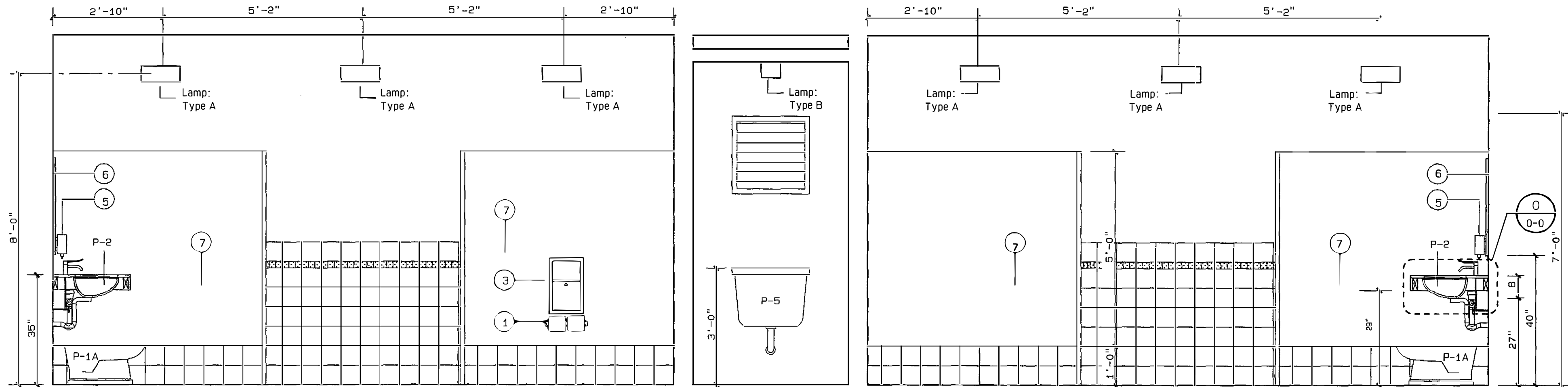
Details
Building #1

A1
08

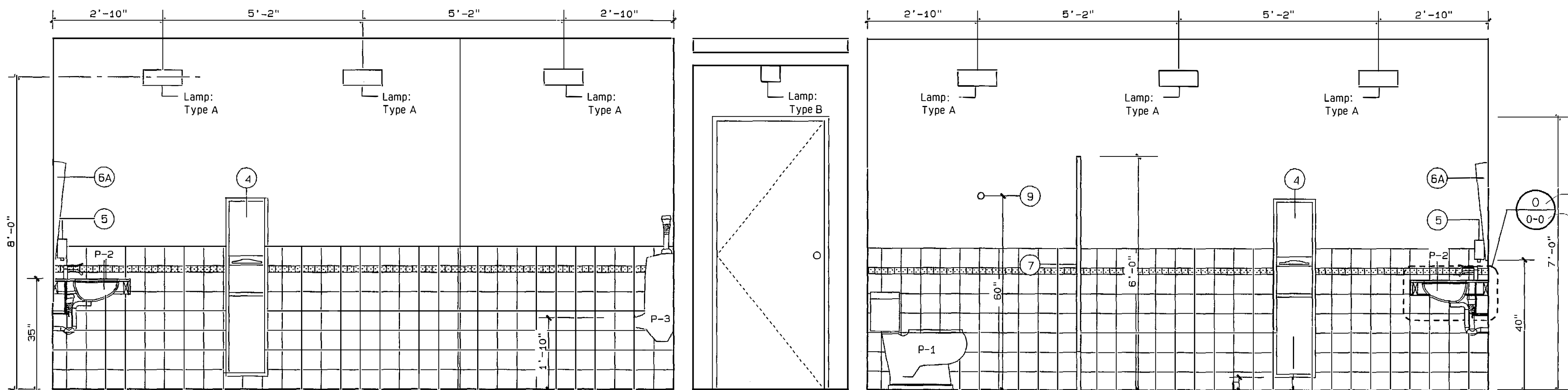


Bathroom #1 Plan - Women
Scale: 1/2" = 1'-0"

Bathroom #2 Plan - Men
Scale: 1/4" = 1'-0"

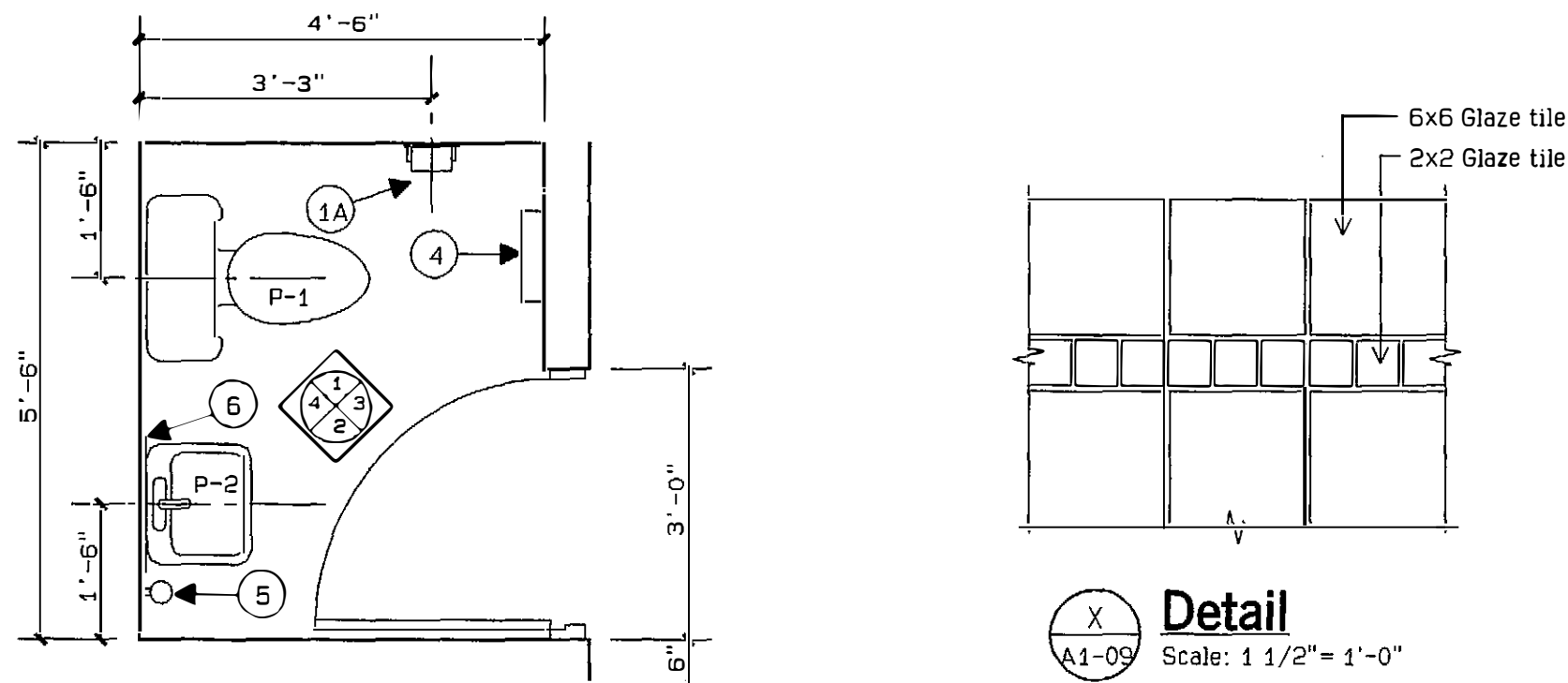


Elevation #1
Bathrooms #1 & #2
Scale: 1/2" = 1'-0"

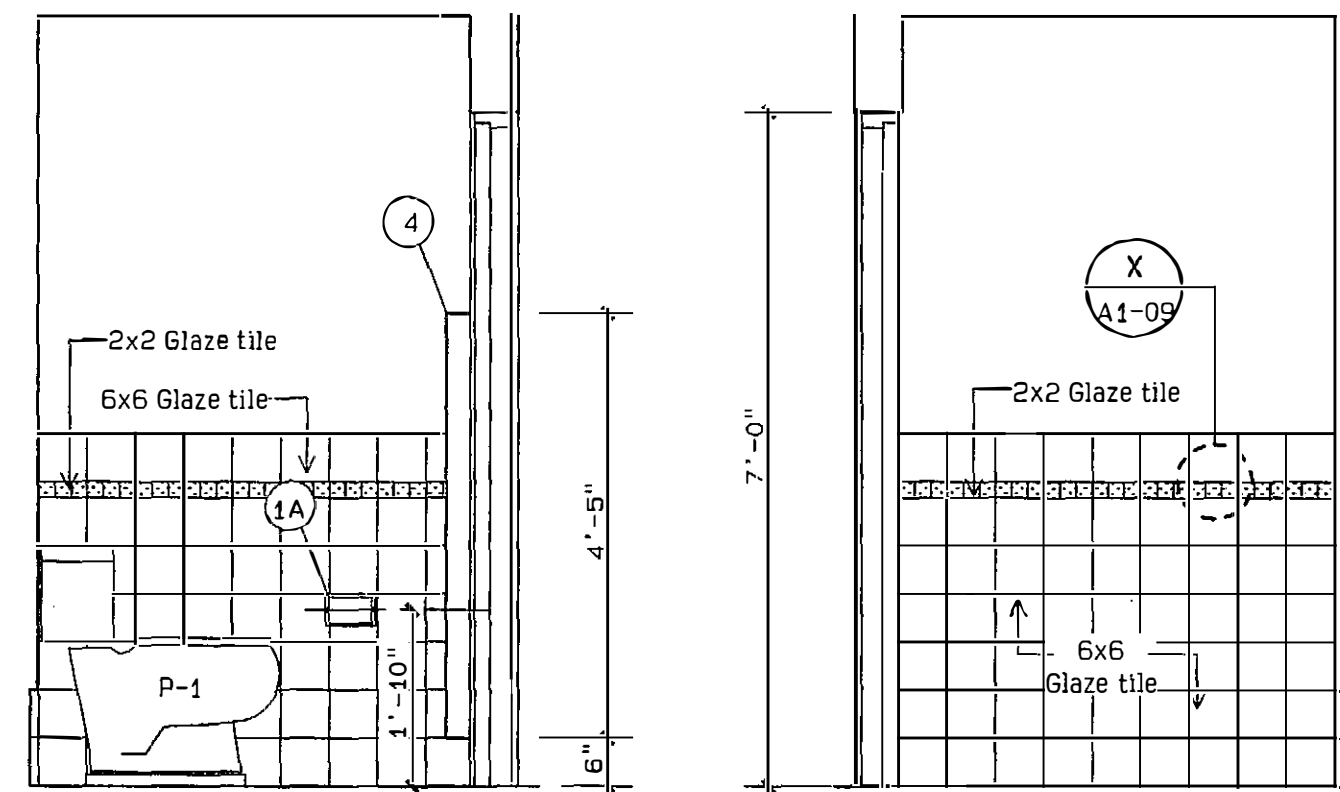


Elevation #2
Bathrooms #1 & #2
Scale: 1/2" = 1'-0"

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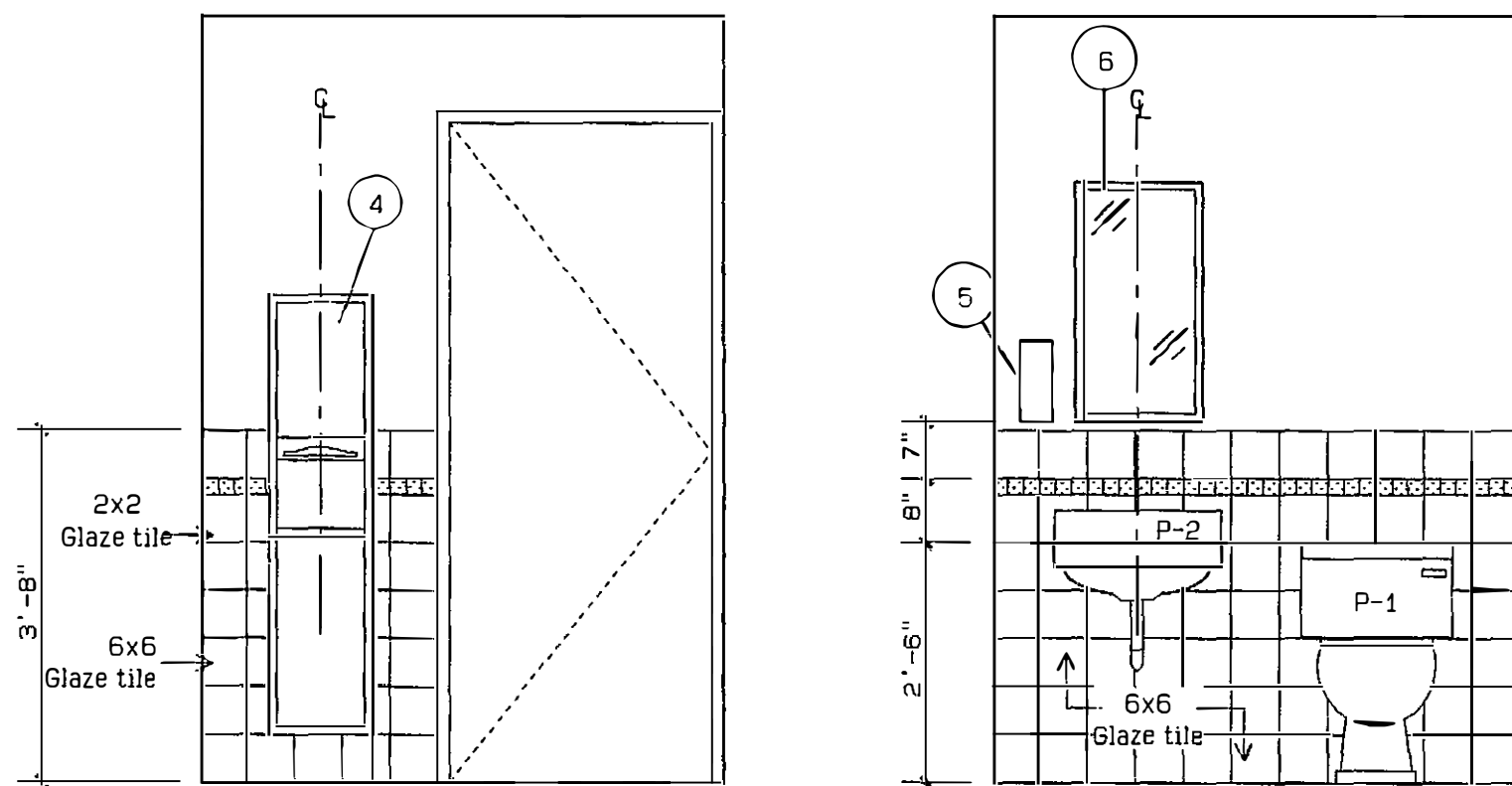


Employee's Restroom #3 - Detail Z
Building #1
Scale: 1/2" = 1'-0"



Elevation #1
Employee's Restroom
Scale: 1/2" = 1'-0"

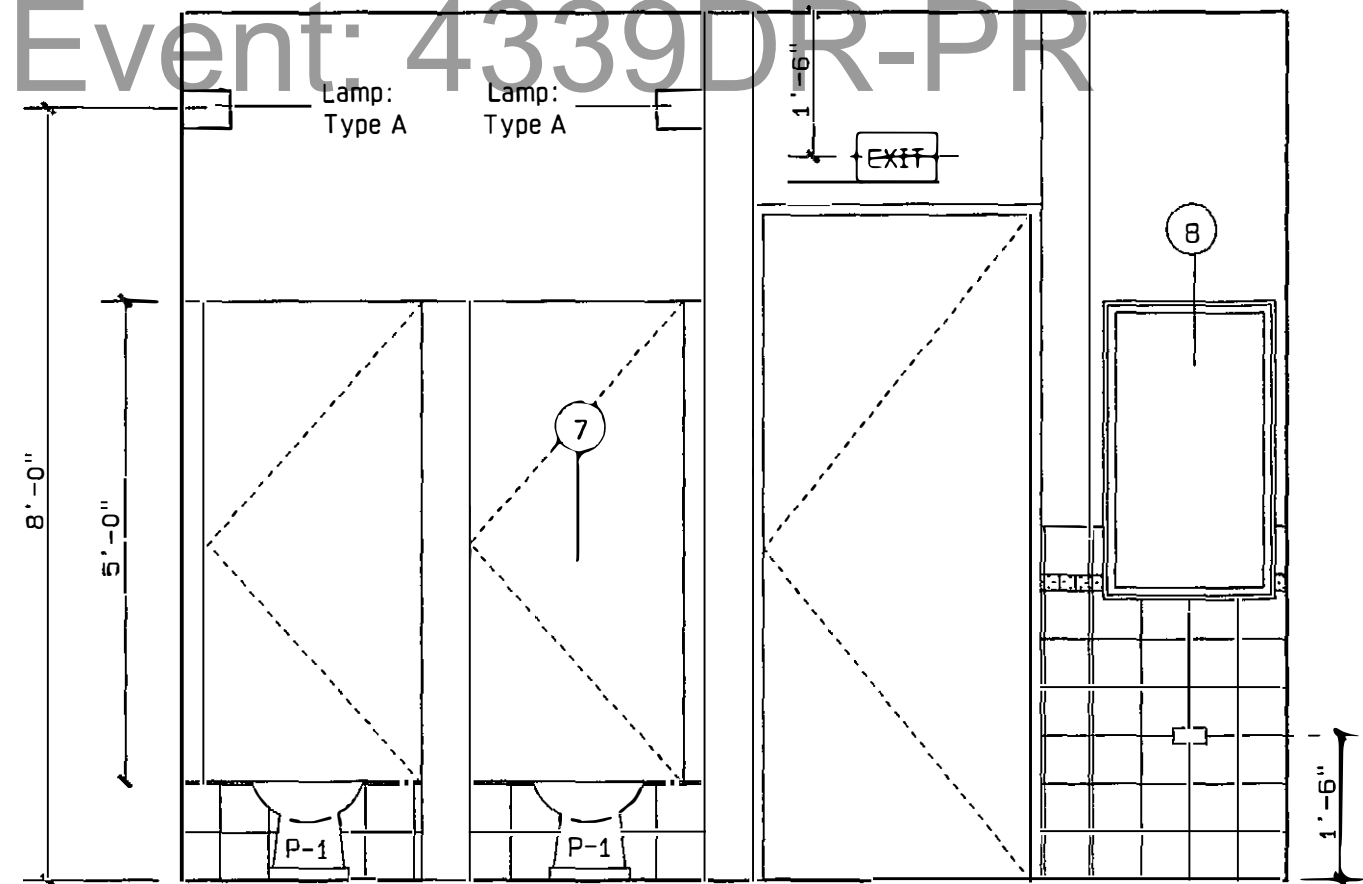
Elevation #2
Employee's Restroom
Scale: 1/2" = 1'-0"



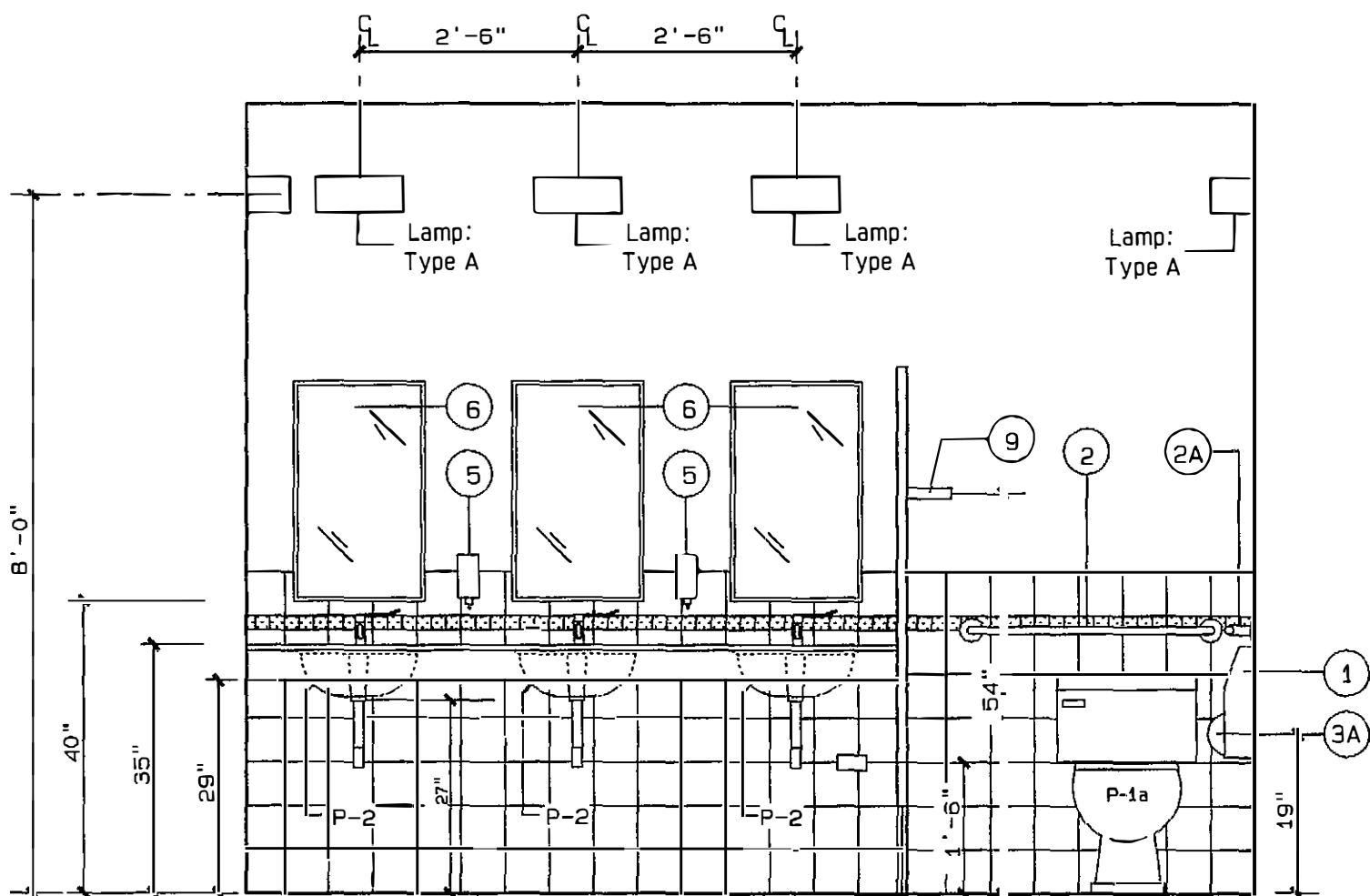
Elevation #3
Employee's Restroom
Scale: 1/2" = 1'-0"

Elevation #4
Employee's Restroom
Scale: 1/2" = 1'-0"

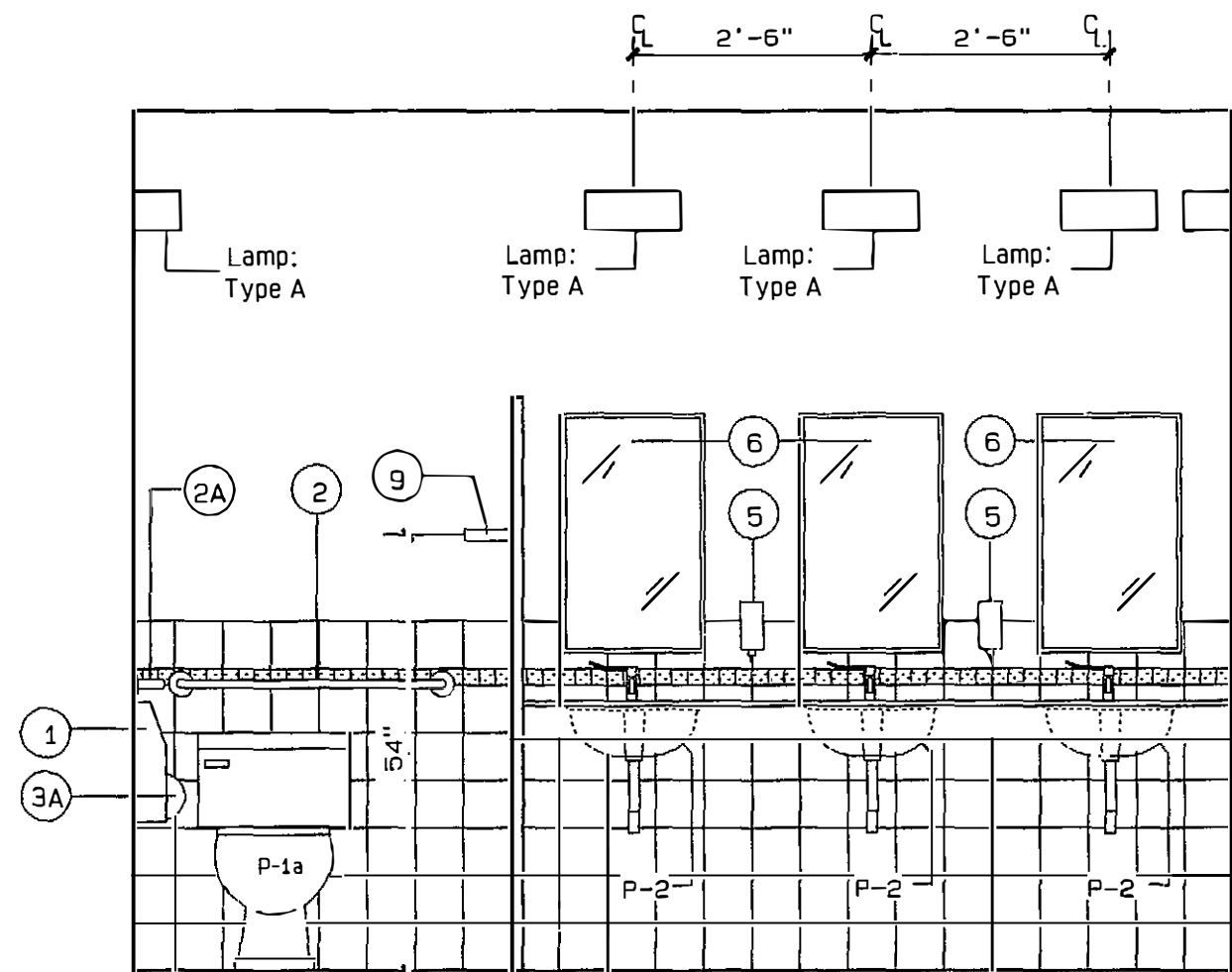
FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



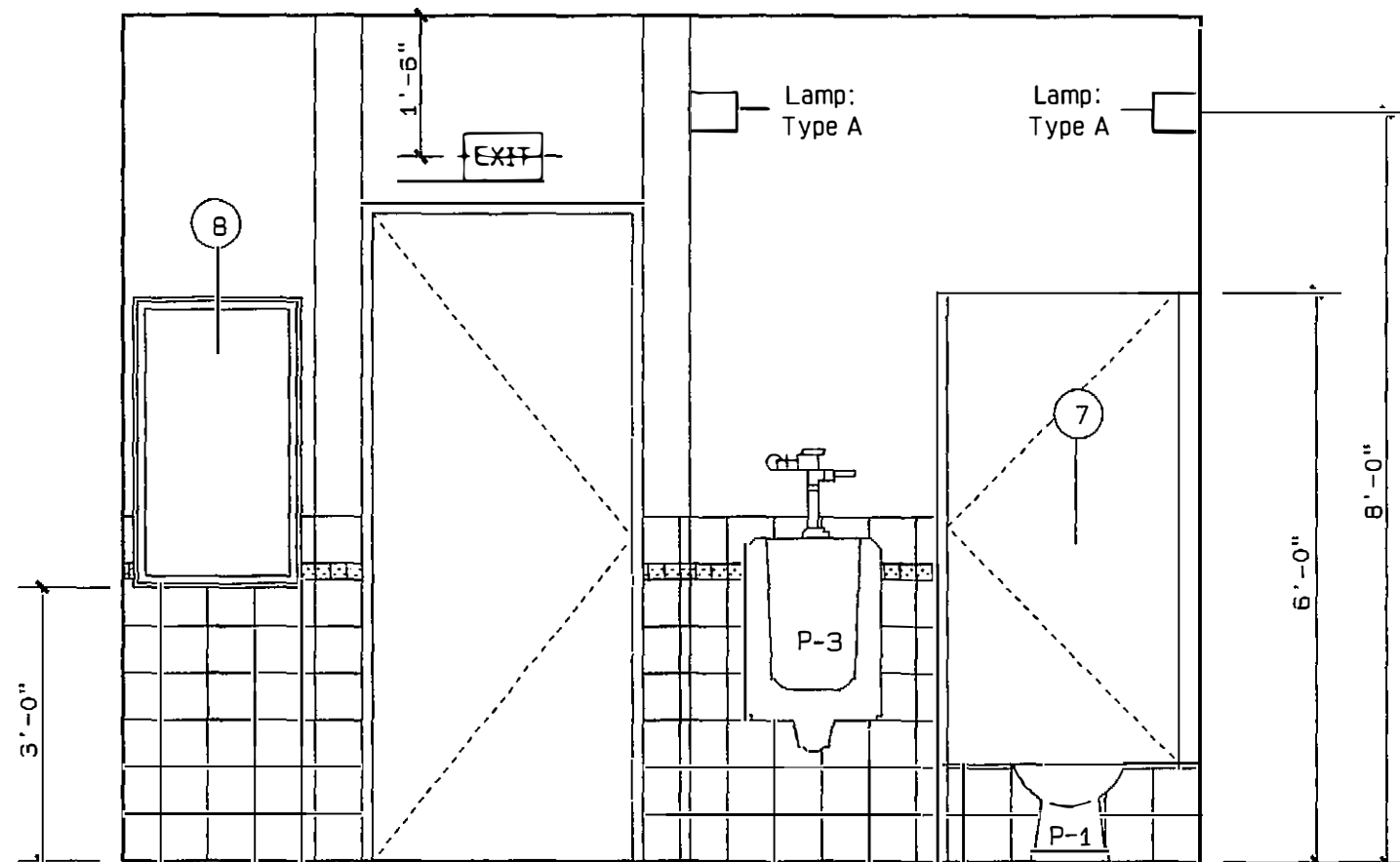
Elevation #3
Bathroom #1
Scale: 1/2"= 1'-0"



Elevation #4
Bathroom #1
Scale: 1/2"= 1'-0"



Elevation #5
Bathroom #2
Scale: 1/2"= 1'-0"



Elevation #6
Bathroom #2
Scale: 1/2"= 1'-0"

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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	88	181

Embarcadero Lago Dos Bocas –BATHROOM ACCESSORY SCHEDULE					
NO.	DESCRIPTION	MATERIAL	MODEL	MAKE	NOTES
1	Double Surface Mounted Toilet Paper Holder,Stainless Steel.	Stainless Steel	7305-2	ASI	
2	1 1/2" ø grab bar, 36" long Exposed Mounting.	Stainless Steel	B-6106	BOBRICK	
2A	1 1/2" ø grab bar, 42" long Exposed Mounting.	Stainless Steel	B-6106	BOBRICK	
3	Sanitary Napkin Disposal	Stainless Steel	B-354	BOBRICK	Mounts in toilet Partitions. Serves two compartments.
3A	Sanitary Napkin Disposal	Stainless Steel	B-3544	BOBRICK	Mounts to wall of single compartment
4	Paper Towel Dispenser and Disposal 600C-Fold or 600 Multi-Fold Paper Towels, 7 gal. capacity	Stainless Steel	0467-SR2	ASI	13"x 55"x 6-1/2". Wall Opening: 12-3/4" x 26-1/2"x 4 1/4"
4A	Paper Towel Dispenser and Disposal 2 gal. capacity	Stainless Steel	64623	ASI	14-1/4"x 28"x 4-1/2". Wall Opening: 11 1/2" x 53 1/2"x 4 1/4"
5	Liquid Soap Dispenser	Chrome Plated Brass	T-10	KROIN	
6	Mirror w/Stainless Steel Frame	Glass/Stainless Steel	B-292 1630	BOBRICK	18"x30"x3/4"
6A	Tilt Frame Mirror w/ S.S. Frame	Glass/Stainless Steel	B-294 1630	BOBRICK	16"x30"x3/4"
7	Toilet Partitions	Stainless Steel	BAYPORT	ACCURATE	S.S. (type 304) accessories
8	Baby Changing Station	Plastic	9010	ASI	37" x 21 1/2" x 6 1/2"
9	Long Towel hook	Chrome Plated Brass	T-18	KROIN	
10	Folding Utility Shelf	Stainless Steel	B-287	BOBRICK	

2

Embarcadero Lago Dos Bocas –BATHROOM EQUIPMENT SCHEDULE				
No.	DESCRIPTION	MAKE	MODEL	NOTES
P-1	Water Closet	KOHLER	Wellworth No. K-3420-EB	1.5 gallon flush, elongated bowl, direct flow priming jet, 1-3/4" passageway, 52048 bolt caps, 12" minimum rough-in, K-4670-C Lustra solid plastic black seat w/ open front & check hinge.
P-1A	Handicapped Water Closet	KOHLER	Highline No. K-3527-EB	3.5 gallon flush, elongated bowl design, 18" high, siphon jet flushing, 2-1/4" passageway, 52184 bolt caps, 12" minimum rough-in, K-4670-C Lustra solid plastic black seat w/ open front & check hinge.
P-2	Lavatory	KOHLER	Claxton No. K-2210	K-7512 Arçyle faucet (C), K-7605 3/8" angle supplies w/ stops, K-13885 1-1/4" offset drain, K-8998 1-1/4" cast brass "P" trap
P-2A	Lavatory	KOHLER	Morningside No. K-12634	K-13330 Finesse faucet, K-13885 1-1/4" offset drain, K-8998 1-1/4" cast brass "P" trap, K-13711 3/8" IPS supplies w/ 2 loose key stops, 32753 1/4" IPS straight tailpiece (2)
P-2B	Lavatory	KOHLER	Greenwich No. K-2030	K-7512 Arçyle faucet (C), K-7605 3/8" angle supplies with stops, K-8998 1-1/4" cast brass "P" trap, K-7715 drain w/ strainer, K-1808 12" brackets, blank cover at unused faucet (left) opening
P-3	Urinal	KOHLER	Darfield No. K-5024-T	Washout action design, 3/4" top spud inlet, 1-1/2" OD tail piece, wall hangers & removable beehive strainer, chrome supply reducer, No. 331-L 1/2" self-closing shower valve w/china ring nipple & flange
P-4	Floor Drain	JR SMITH	No. 2010-B	Flush with tiled or concrete floors, for outlet see plumbing drawings
P-5	Water Cooler	ELKAY	EBFS-B	Stainless steel finish
P-6	Service Sink	MUSTEE	Durastone No.17F	Floor mounting, deep single bowl, 20 gals. capacity, heavy duty faucet w/ hose-treaded spout & "P" trap as approved
P-7	Sink	ELKAY	Lusteritone No. DLR-3122-12	Deep single bowl, 18 gauge, type 302, self rim, LK-2085-13 faucet, blank cover at unused faucet (2) openings
P-8	Encased Hose Bibb	ZURN	No. Z-1345	Encased (flush) in concrete or block walls (new or existing)

1

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE

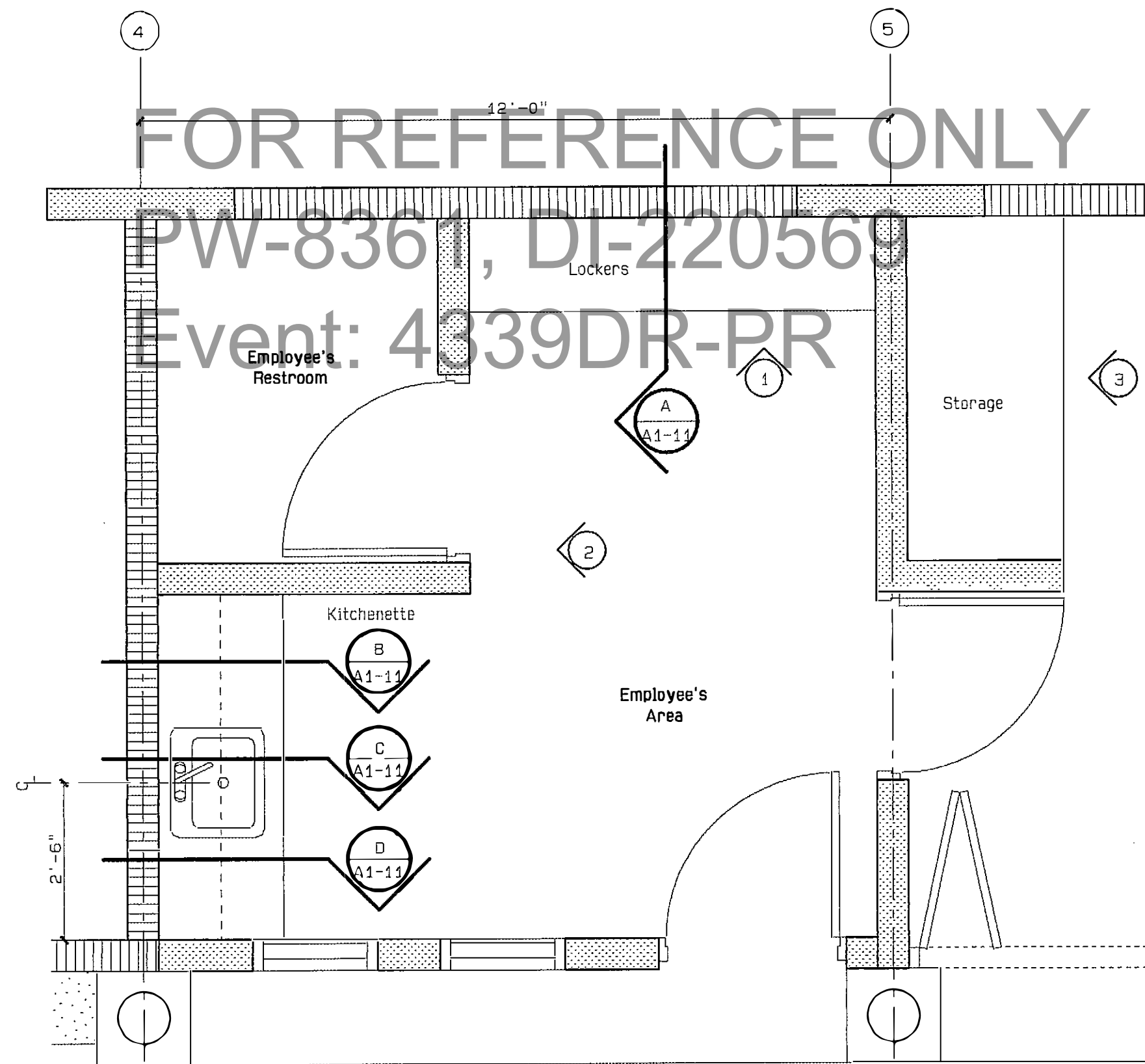
REVISIONS

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

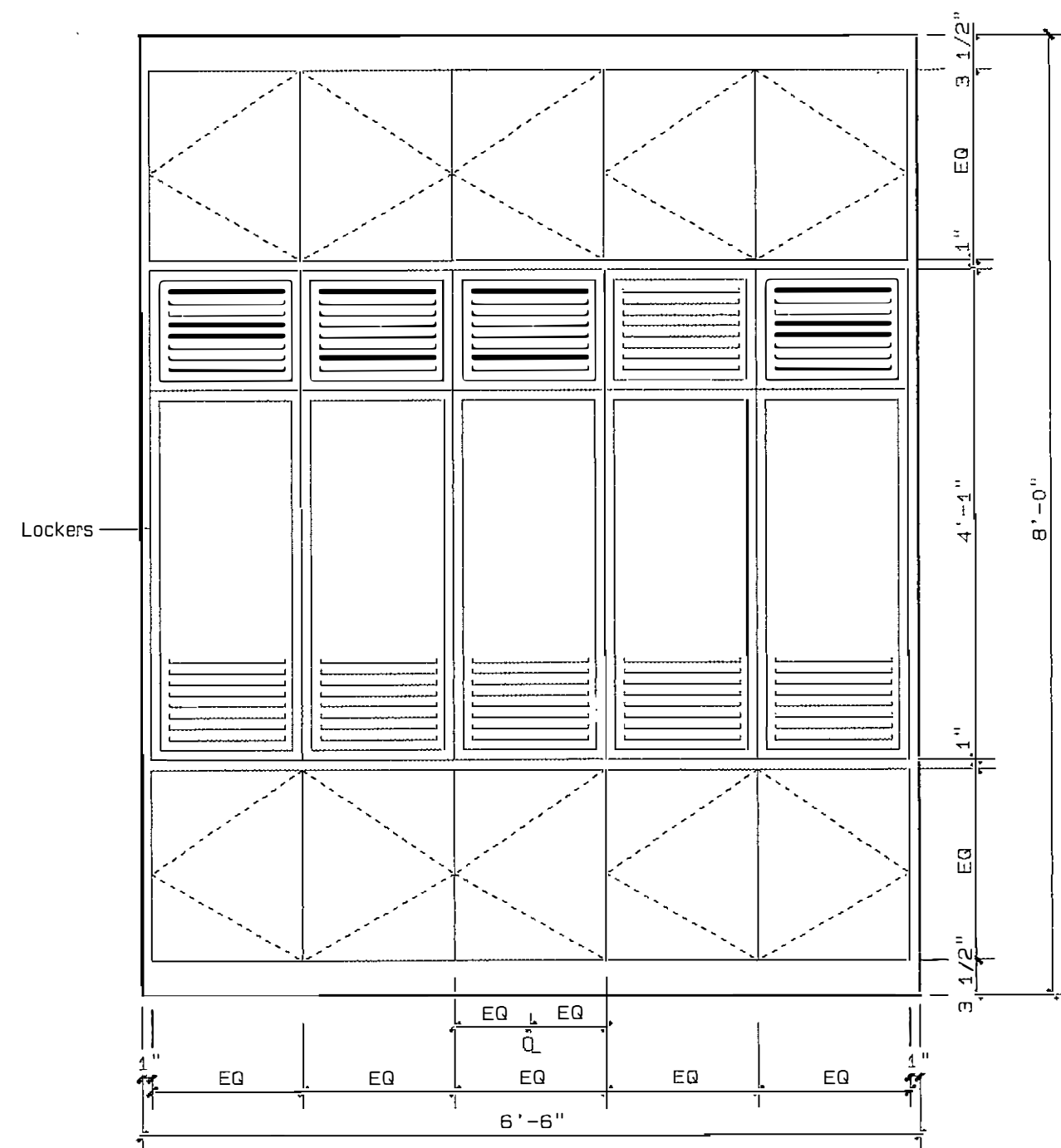
Restrooms
Building #1

A1
10

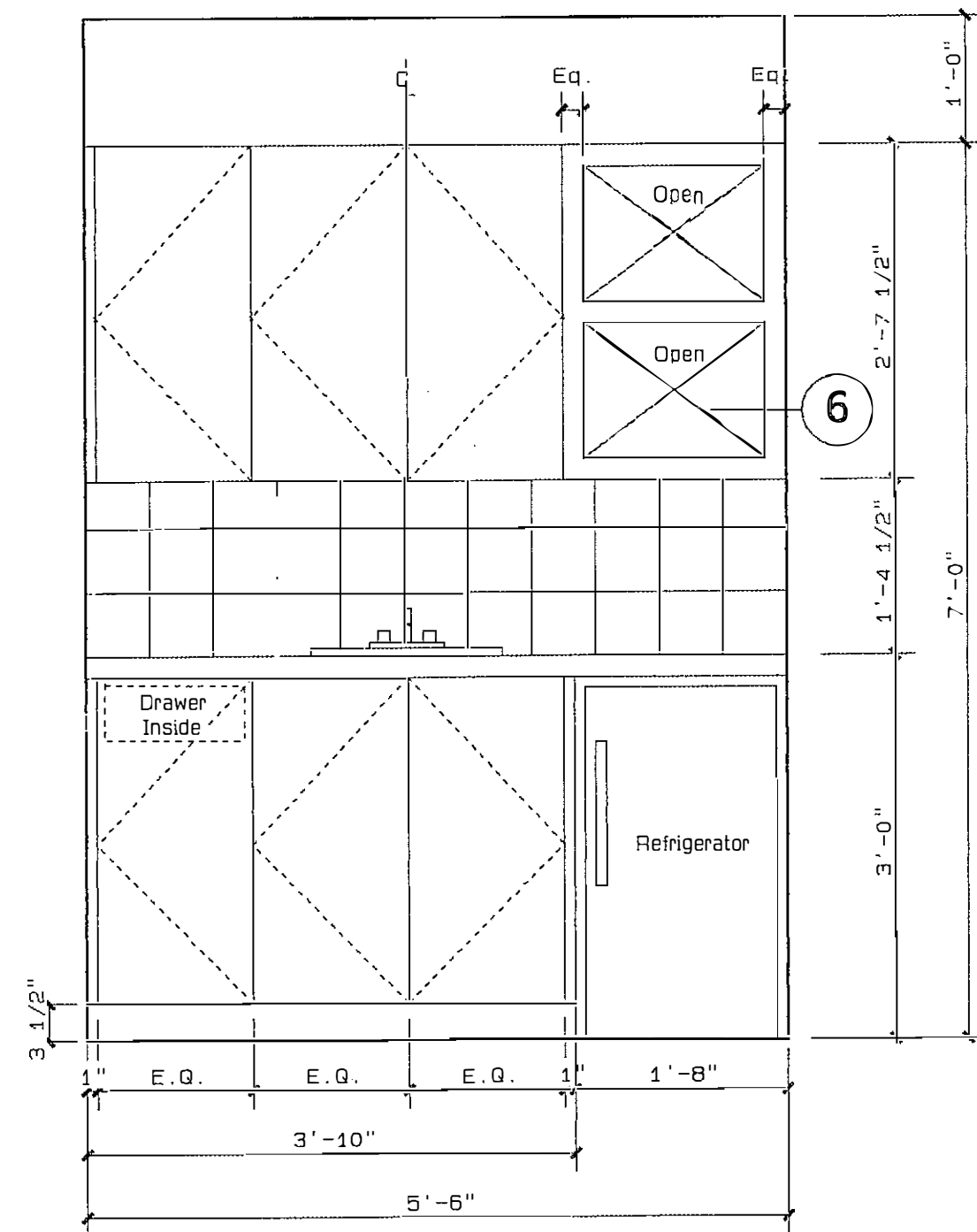
FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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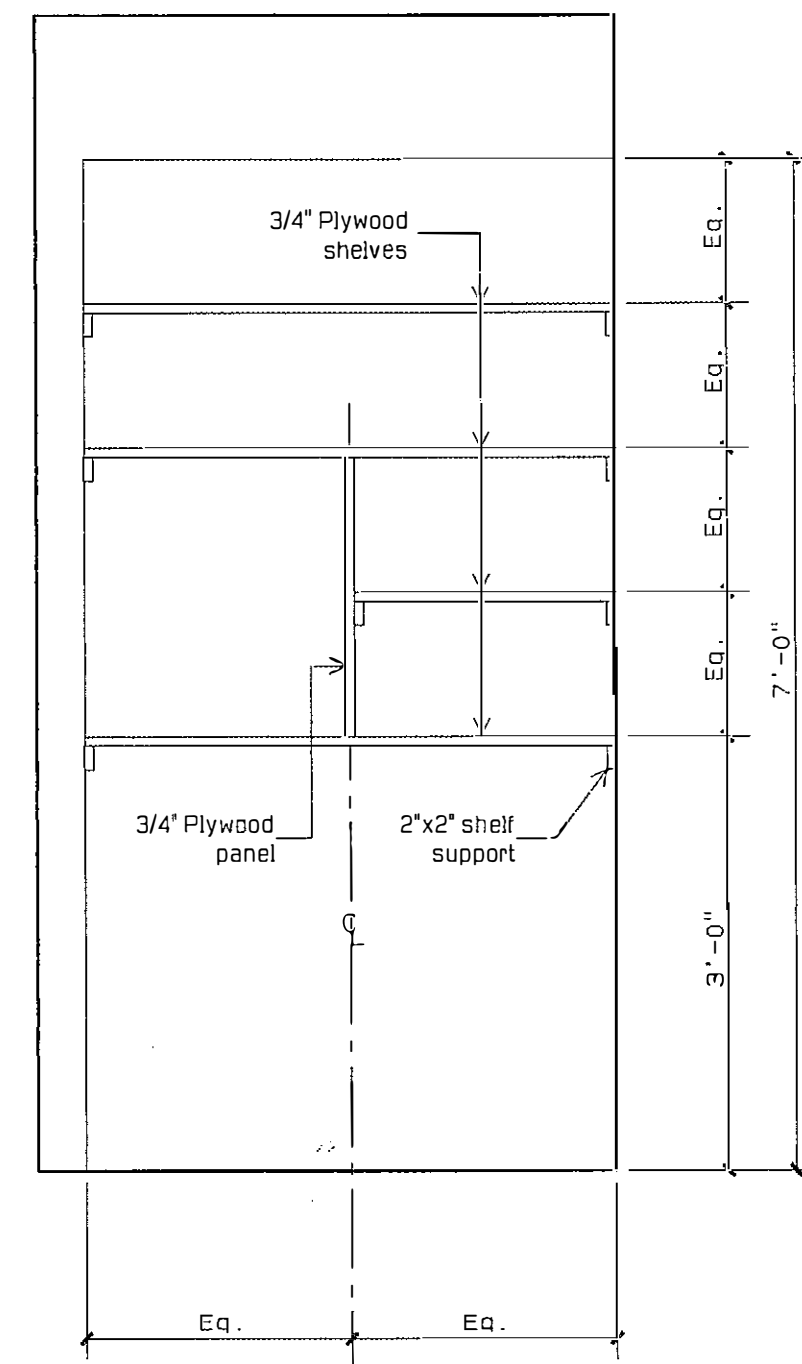
Employees' Area - Detail "Y"
Scale: 1/2" = 1'-0"



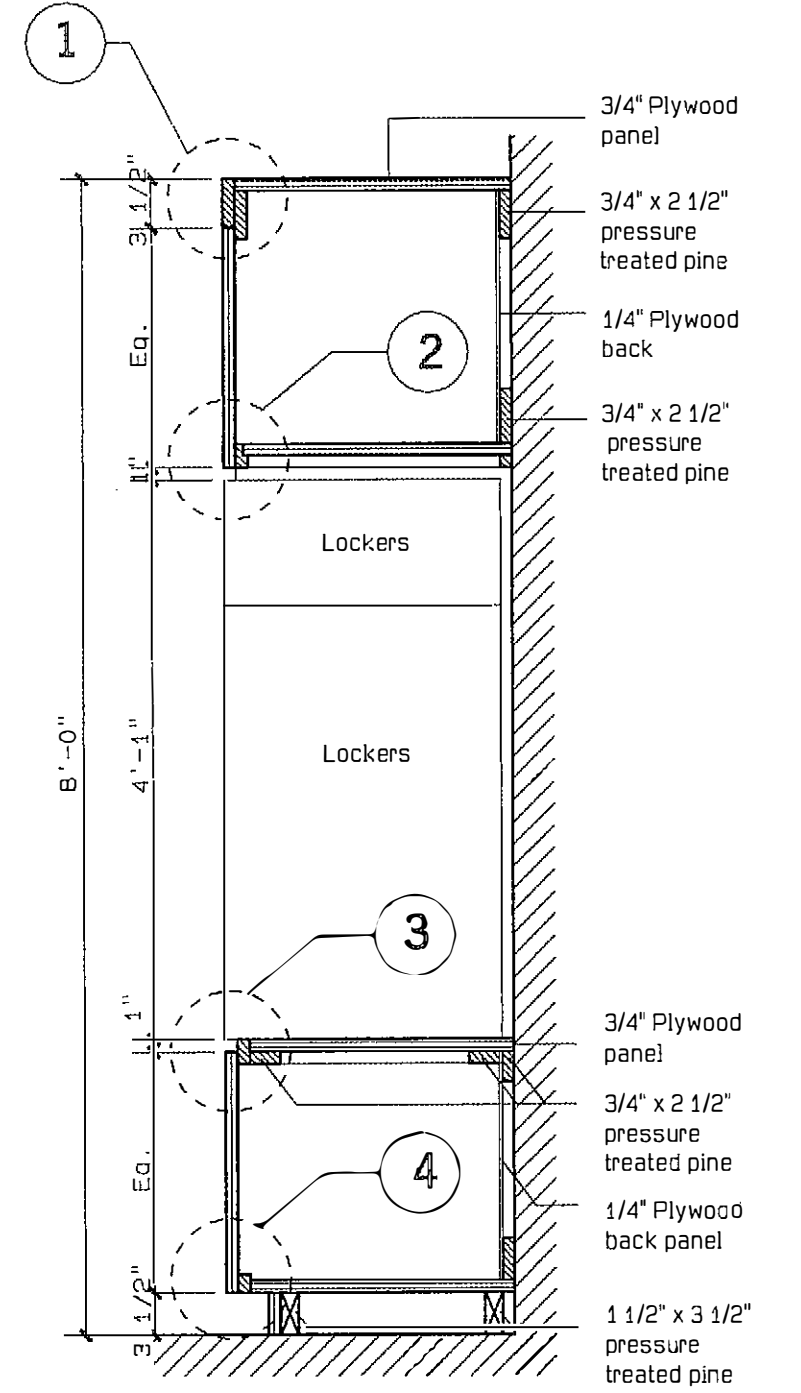
Elevation 1
Scale: 3/4" = 1'-0"



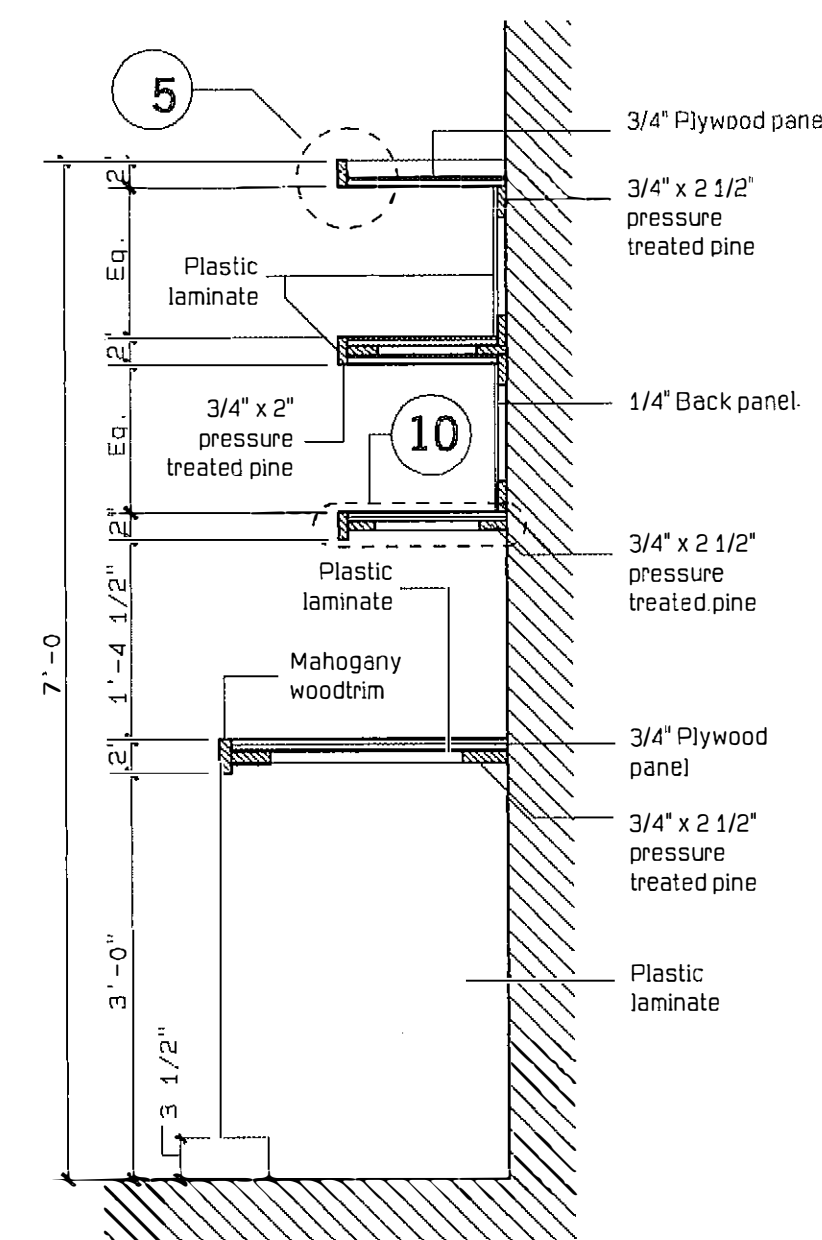
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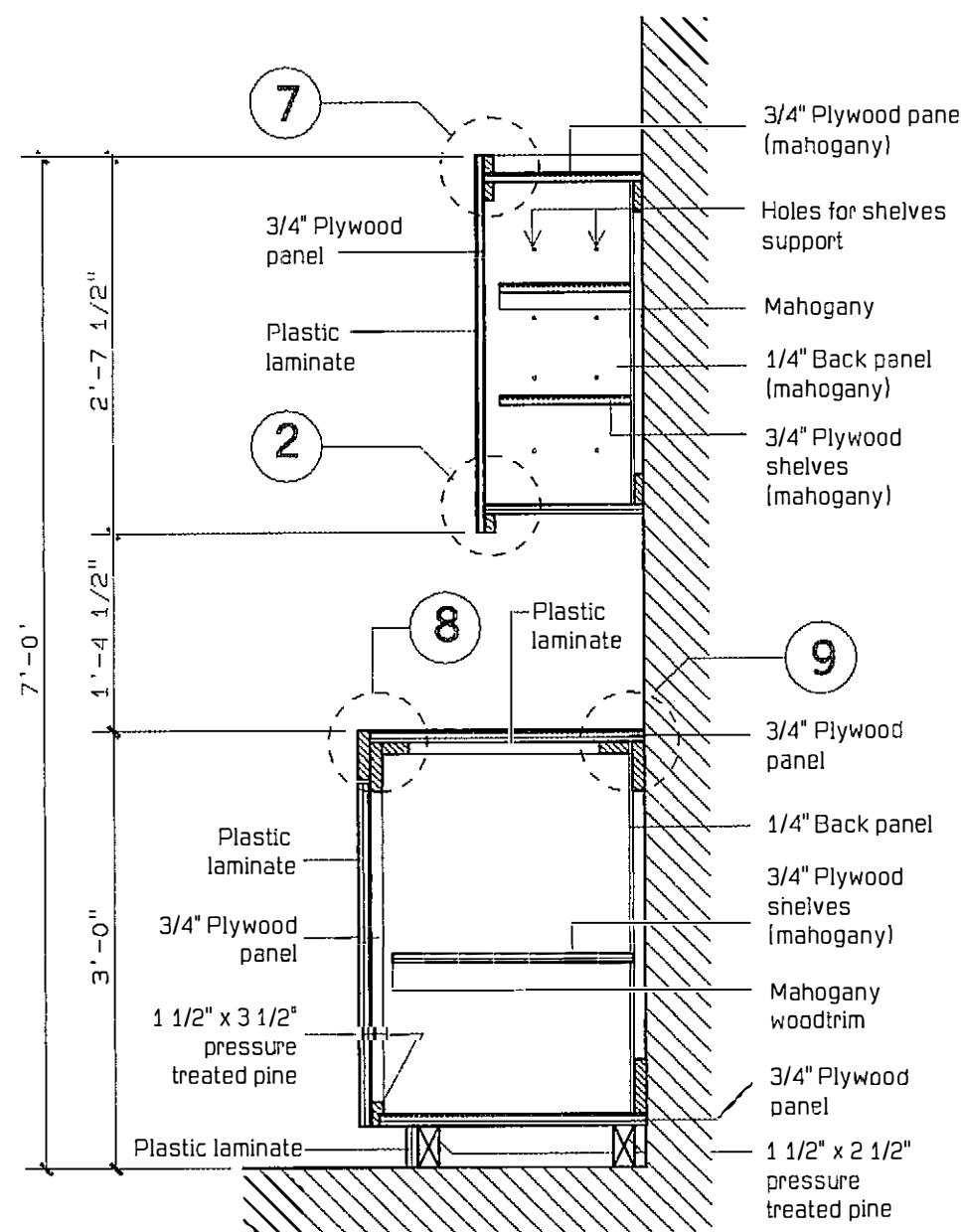
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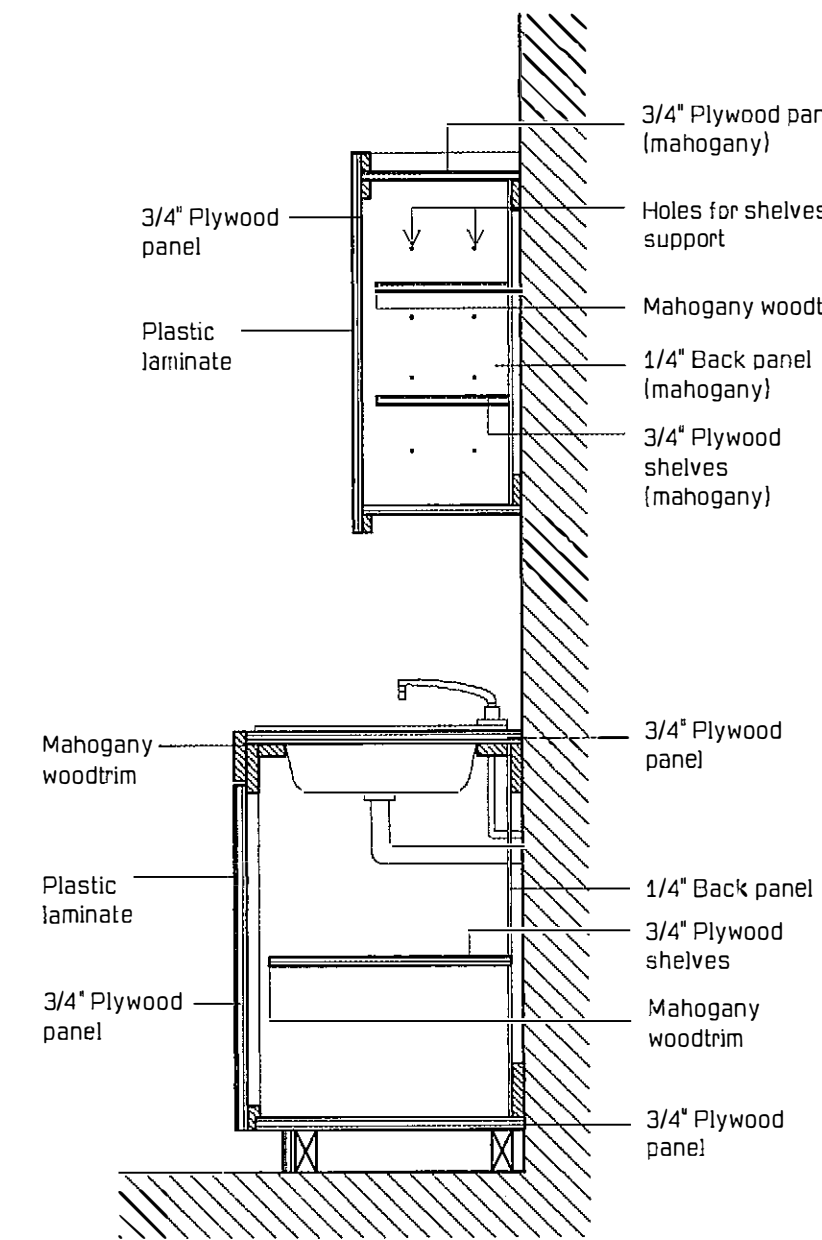
Section A
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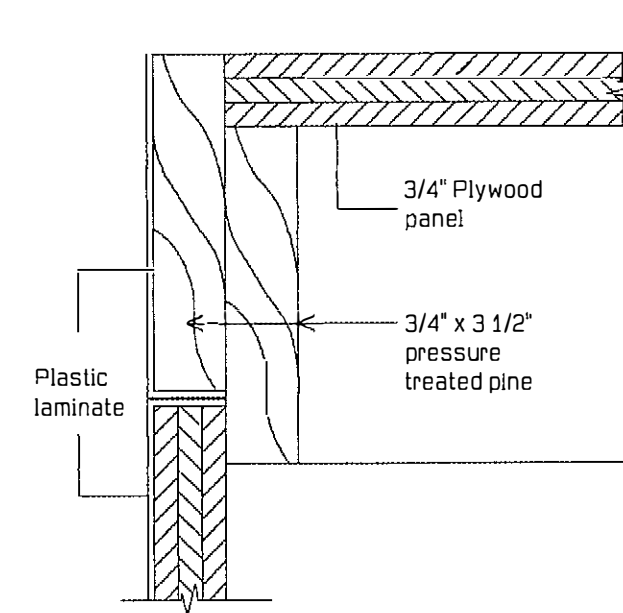
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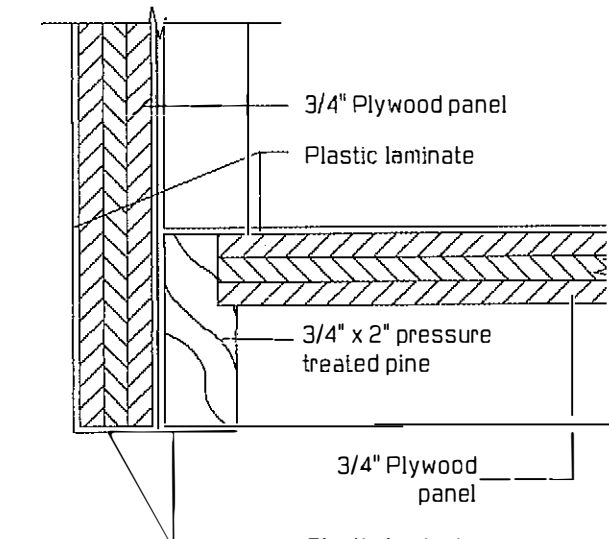
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Scale: 3/4" = 1'-0"



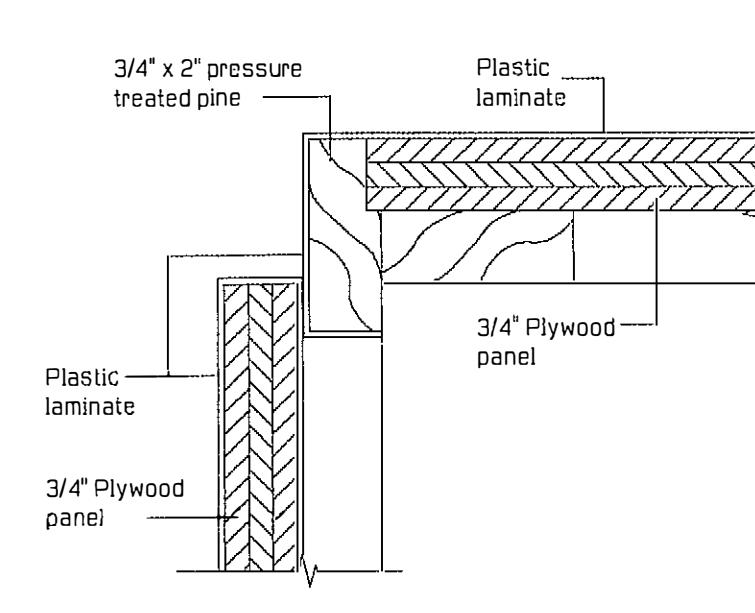
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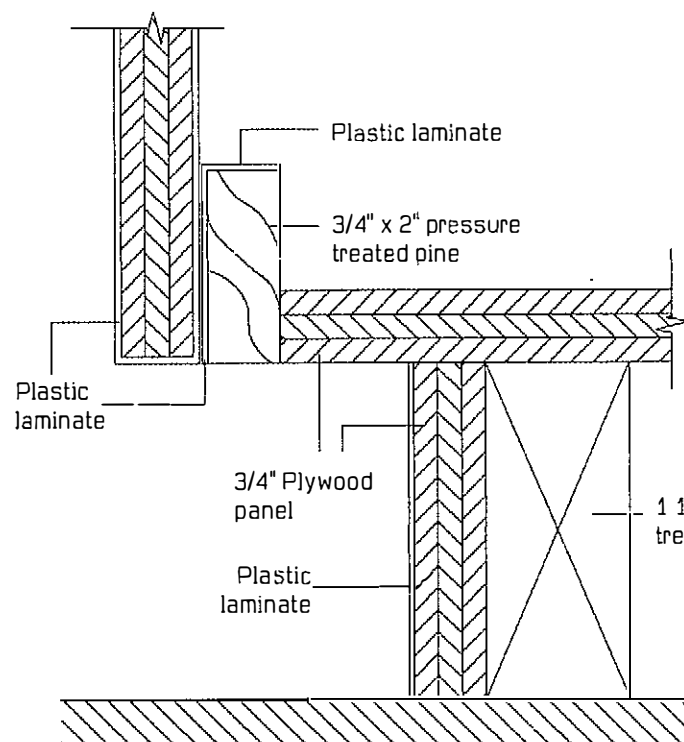
Detail 1
Scale: 6" = 1'-0"



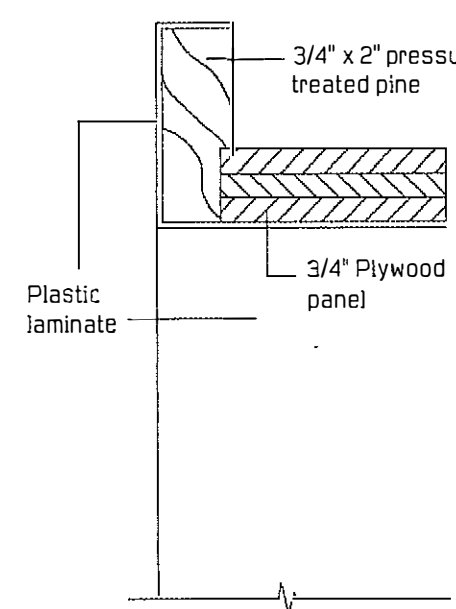
Detail 2
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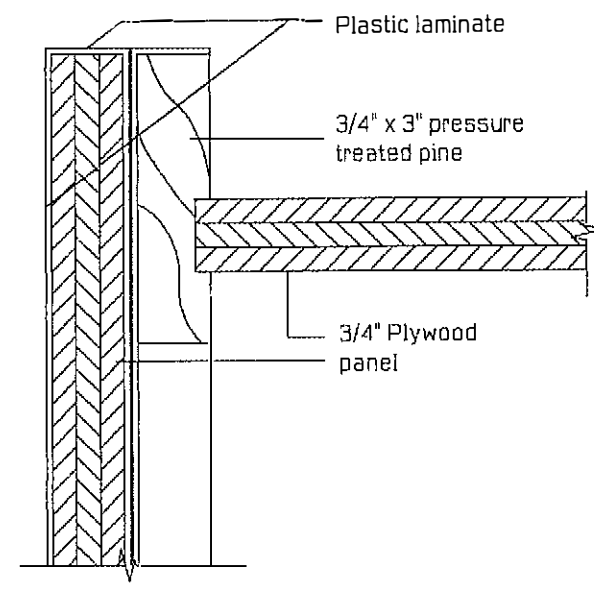
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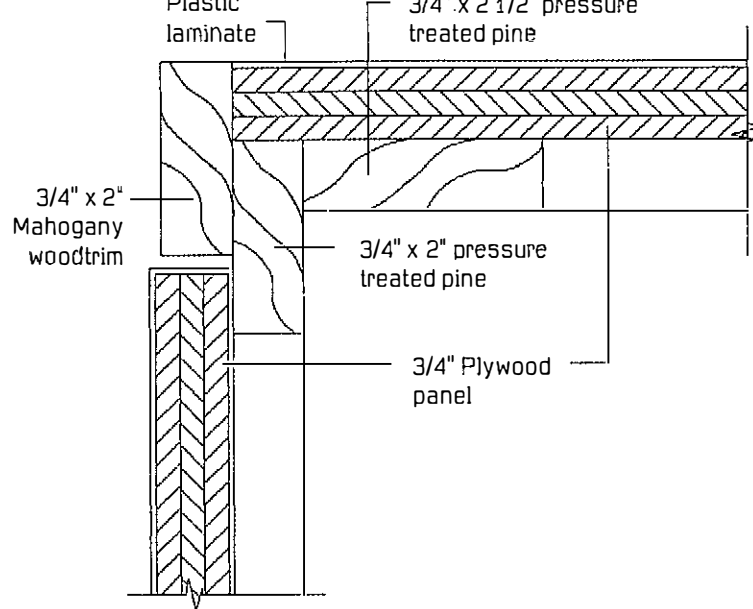
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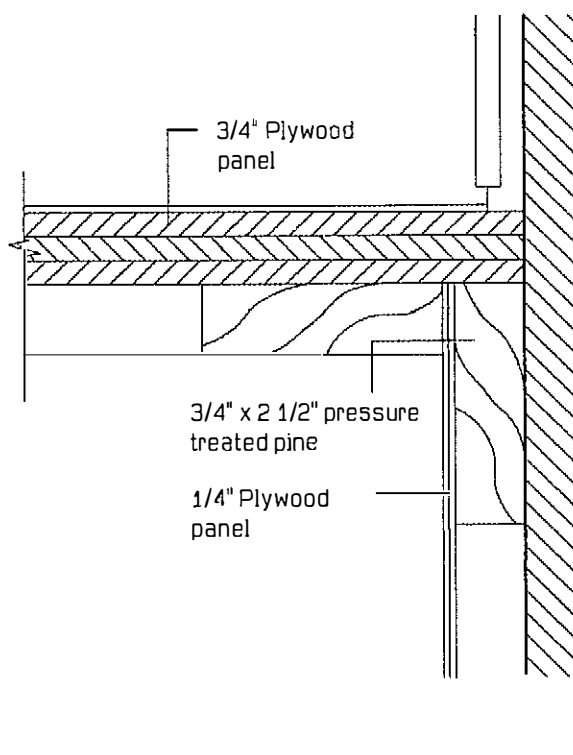
Detail 5
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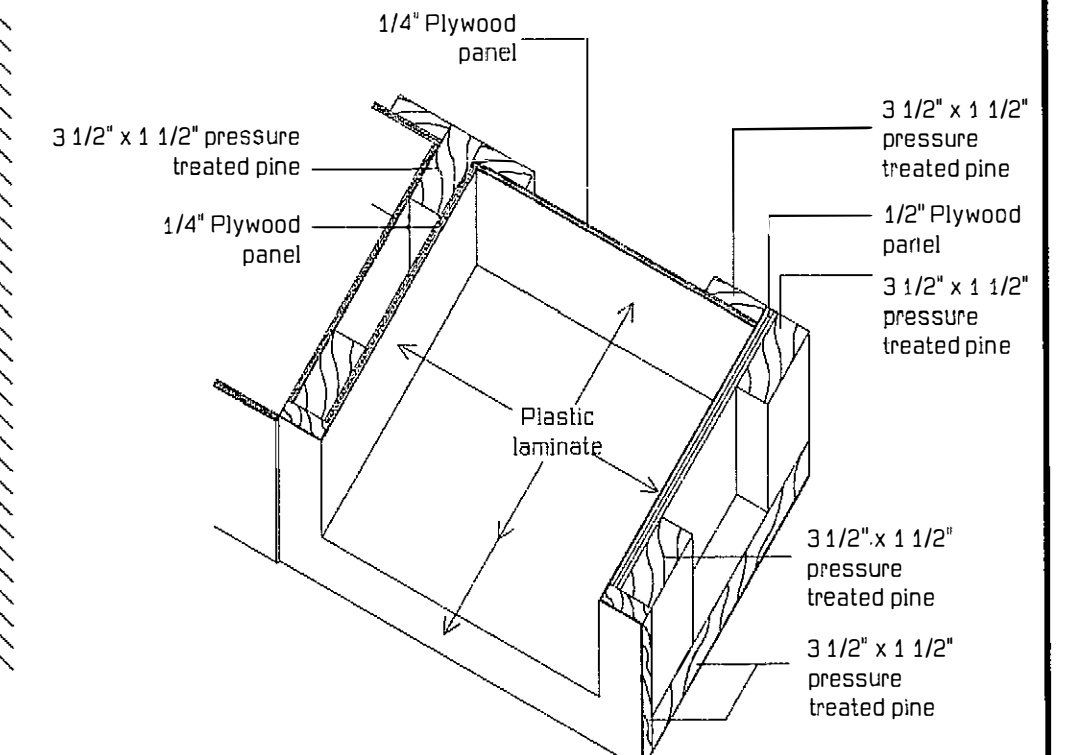
Detail 7
Scale: 6" = 1'-0"



Detail 8
Scale: 6" = 1'-0"



Detail 9
Scale: 6" = 1'-0"



Detail 6
Scale: 3" = 1'-0"

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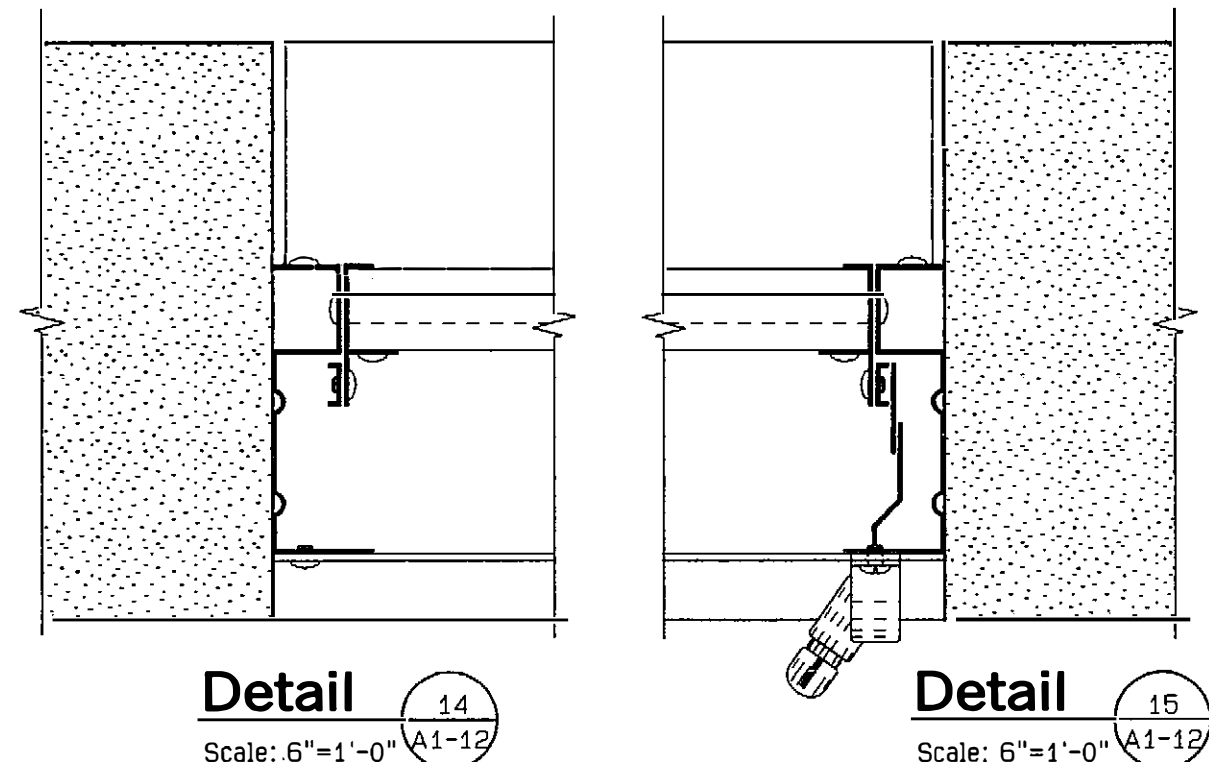
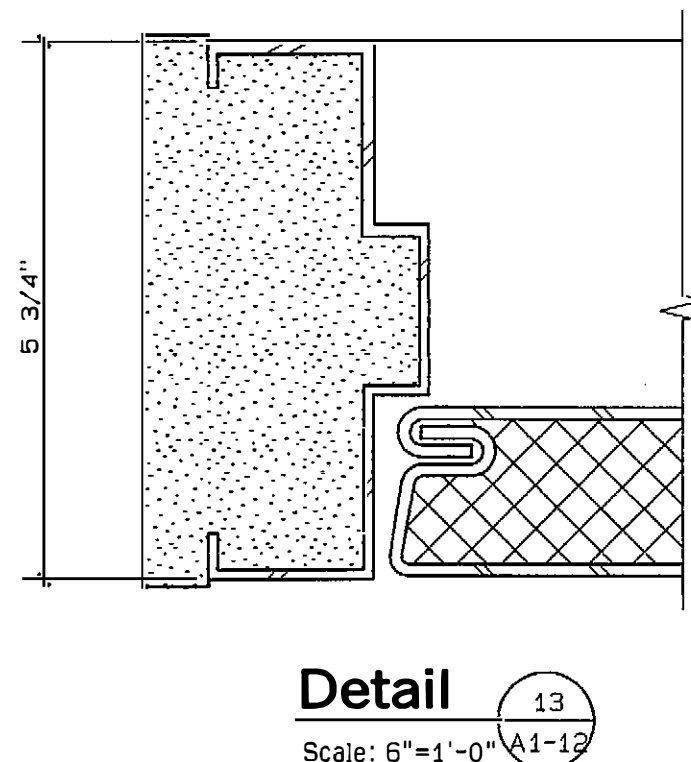
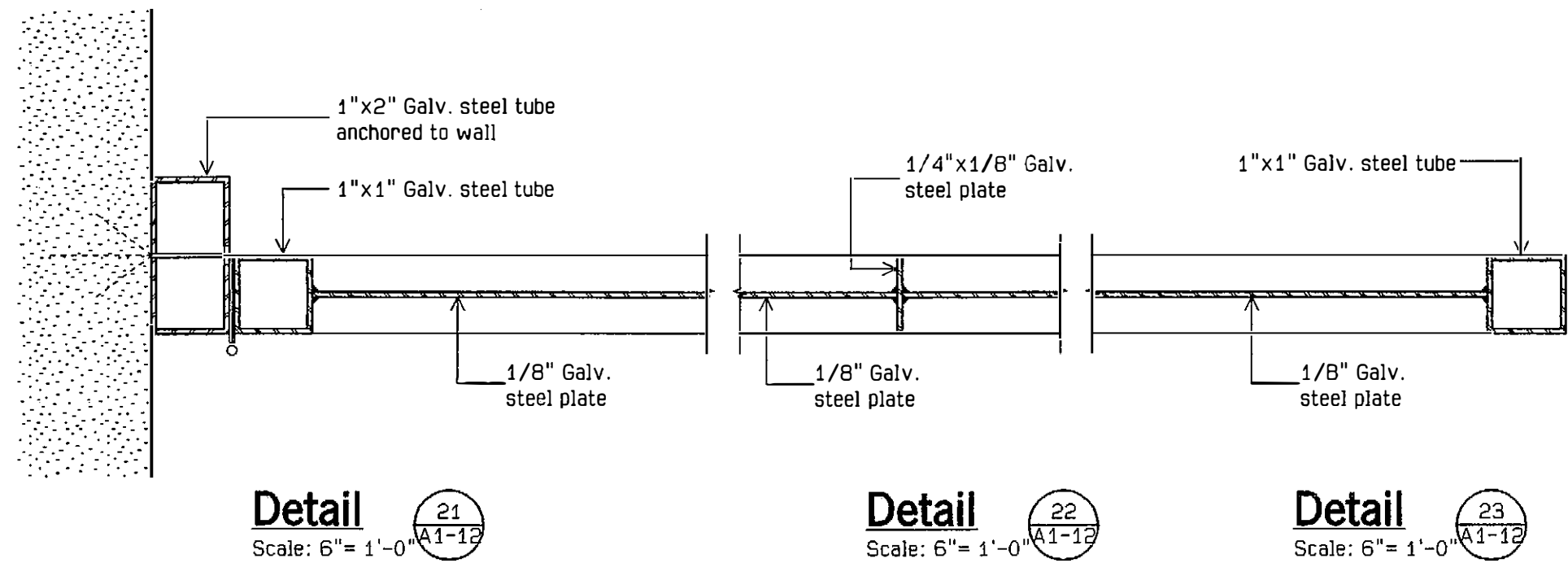
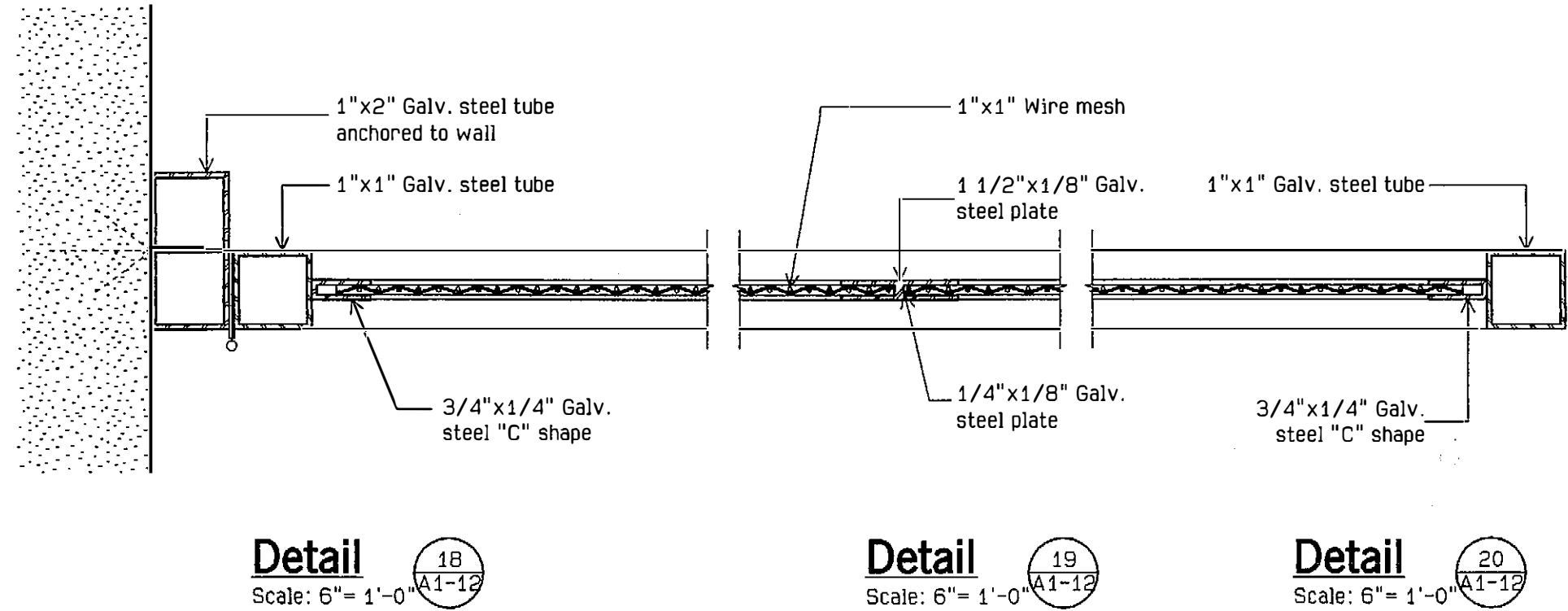
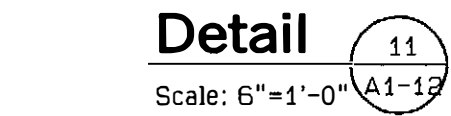
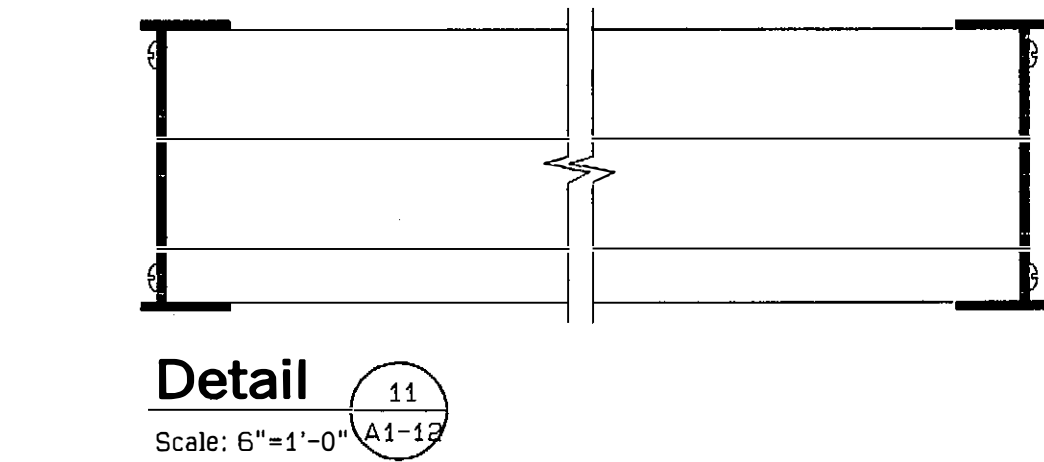
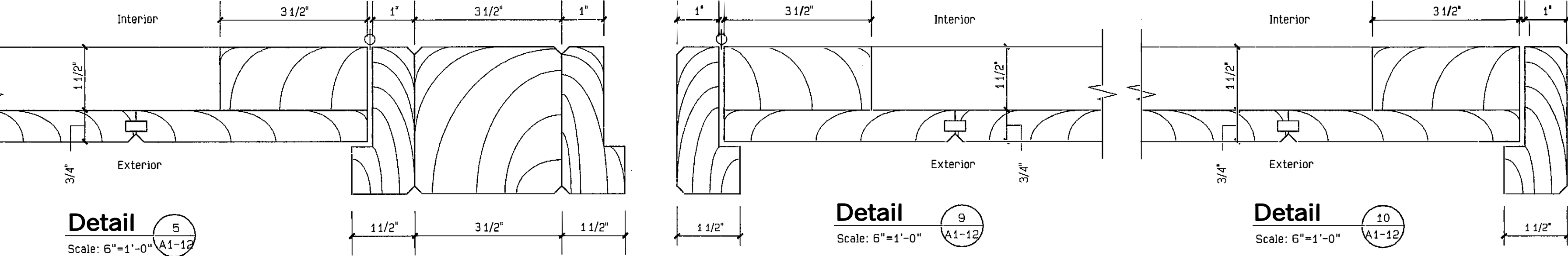
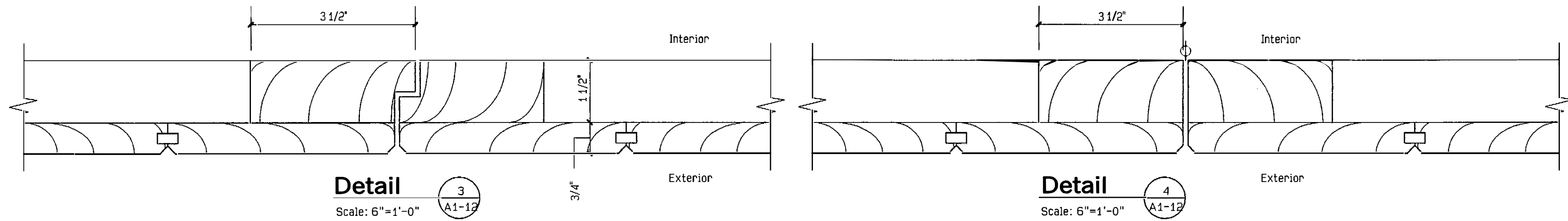
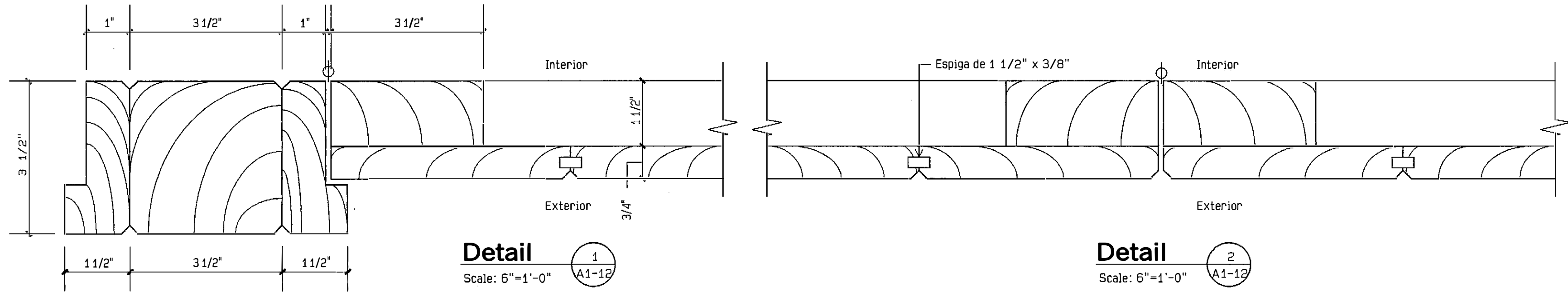
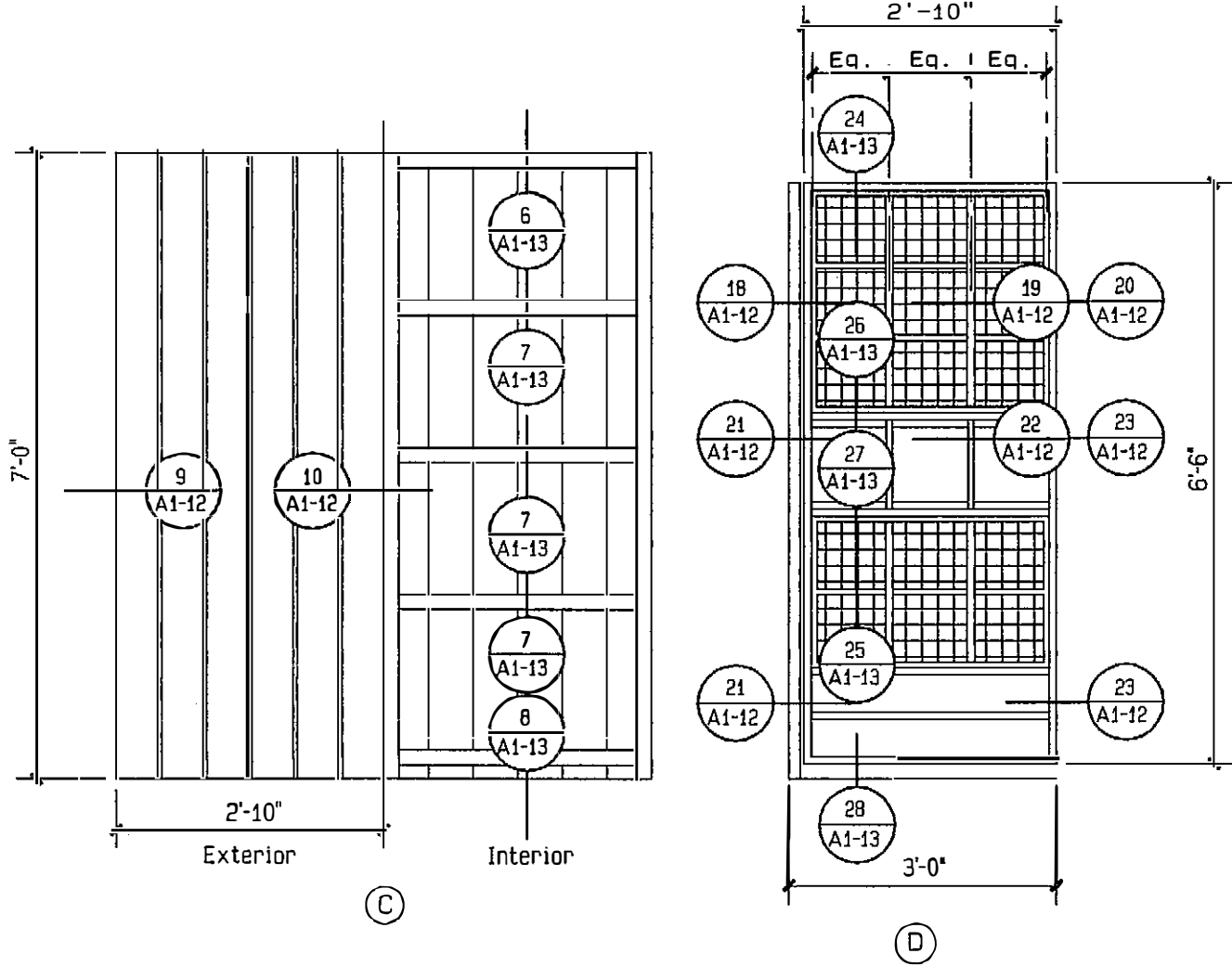
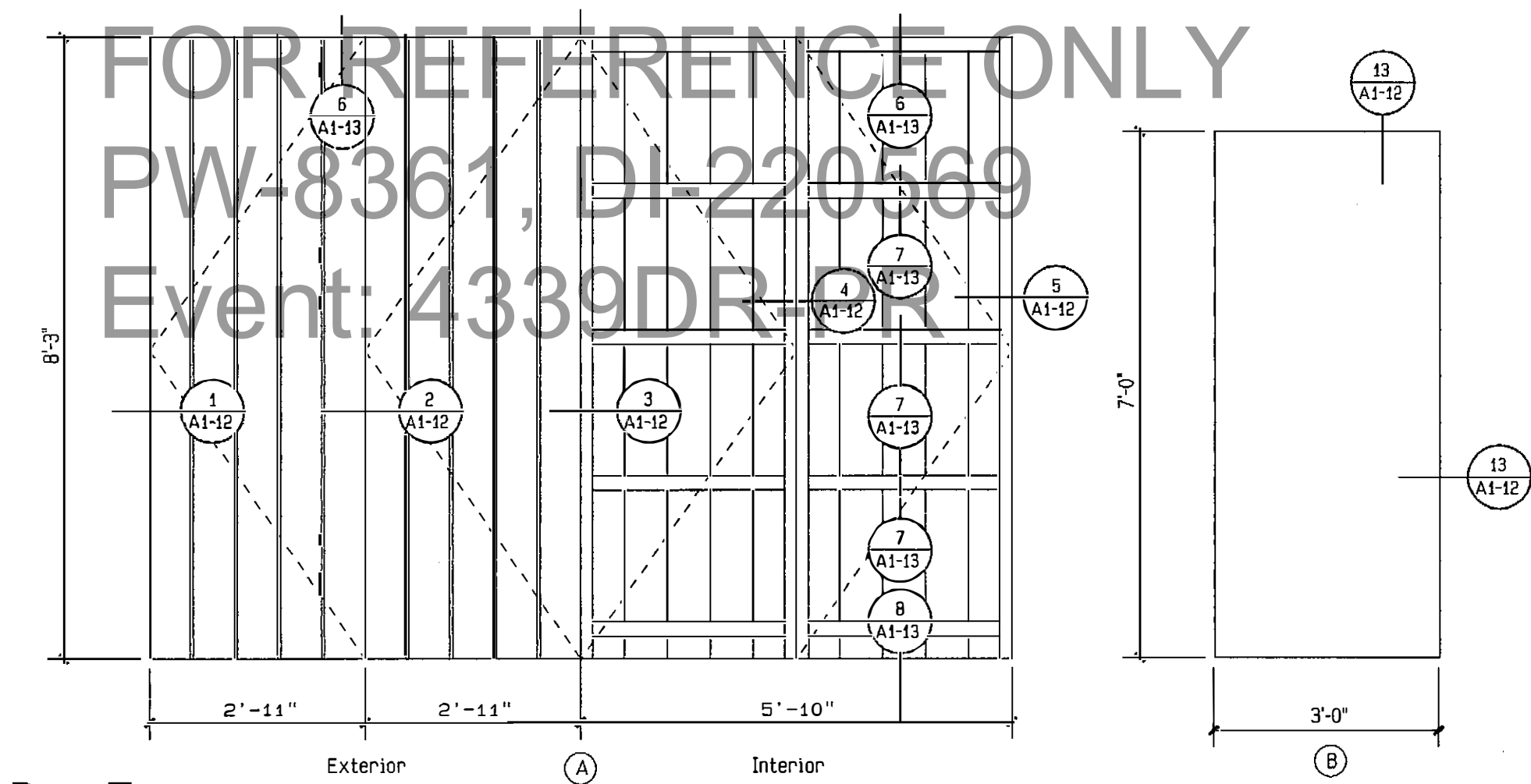
SCALE: As shown

Kitchen & Lockers Area
Building #1

A1
11

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DB Door Schedule				Building #1				Notes
No.	Type	* Dimension	Material	Fin.	Saddle	Tran.	Frame	
101	B	3'-0" x 7'-0"	Galv. Steel	Paint	-	-	G. Steel	
102	A	(2) 5'-10" x 8'-3"	Treated Pine	Paint	-	-	Td. Pine	Tablón (batten), folding
103	A	(2) 5'-10" x 8'-3"	Treated Pine	Paint	-	-	Td. Pine	Tablón (batten), folding
104	A	(2) 5'-10" x 8'-3"	Treated Pine	Paint	-	-	Td. Pine	Tablón (batten), folding
105	A	(2) 5'-10" x 8'-3"	Treated Pine	Paint	-	-	Td. Pine	Tablón (batten), folding
106	C	3'-0" x 7'-0"	Treated Pine	Paint	-	-	Td. Pine	Tablón (batten), single leaf
107	C	2'-10" x 7'-0"	Treated Pine	Paint	-	-	Td. Pine	Tablón (batten), single leaf
108	C	2'-5" x 7'-0"	Treated Pine	Paint	-	-	Td. Pine	Tablón (batten), single leaf
109	C	3'-0" x 7'-0"	Treated Pine	Paint	-	-	Td. Pine	Tablón (batten), single leaf
110	C	3'-0" x 7'-0"	Treated Pine	Paint	-	-	Td. Pine	Tablón (batten), single leaf
111	C	3'-0" x 7'-0"	Treated Pine	Paint	-	-	Td. Pine	Tablón (batten), single leaf
112	D	3'-0" x 8'-0"	Galv. Steel	Paint	-	-	G. Steel	Steel gate
113	D	3'-0" x 8'-0"	Galv. Steel	Paint	-	-	G. Steel	Steel gate
114	D	3'-0" x 8'-0"	Galv. Steel	Paint	-	-	G. Steel	Steel gate
DB Window Schedule				Building #1				Notes
No.	Type	* Dimension	Material	Fin.	Saddle	Tran.	Frame	
101	A	2'-0" x 1'-11"	Aluminum	B.E.P.	-	-	-	"Z" Type Fixed Louver's Window
102	B	2'-0" x 4'-0"	Alum./Imbuia	Paint	-	-	-	Aluminum / Wood lalousie
103	B	2'-0" x 4'-0"	Alum./Imbuia	Paint	-	-	-	Aluminum / Wood lalousie
104	A	2'-0" x 1'-11"	Aluminum	B.E.P.	-	-	-	"Z" Type Fixed Louvers Window
* Contractor shall verify all dimensions on site.								



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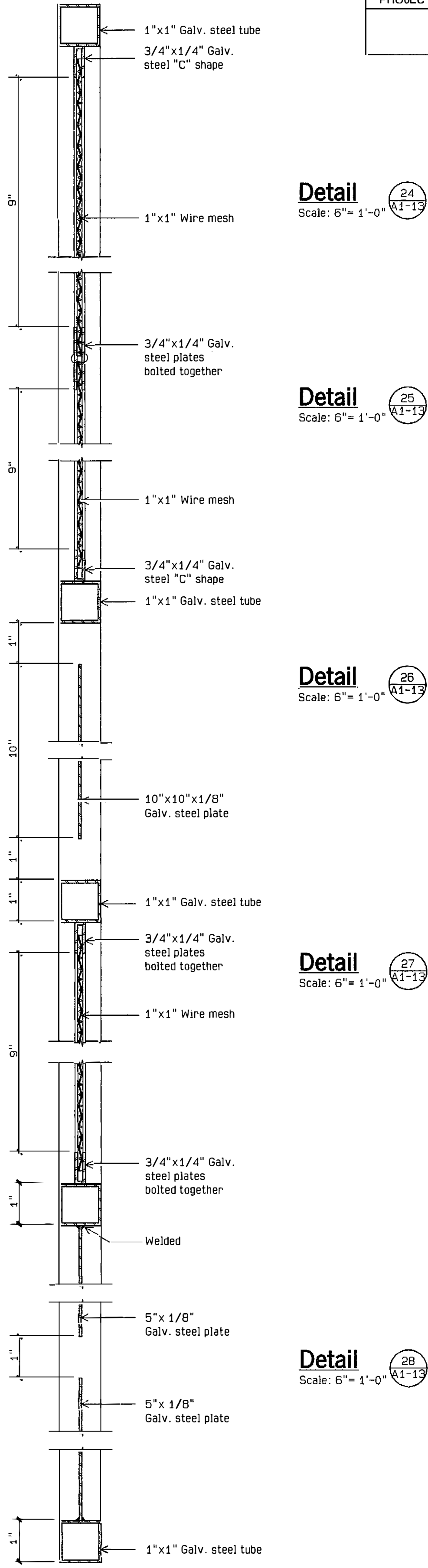
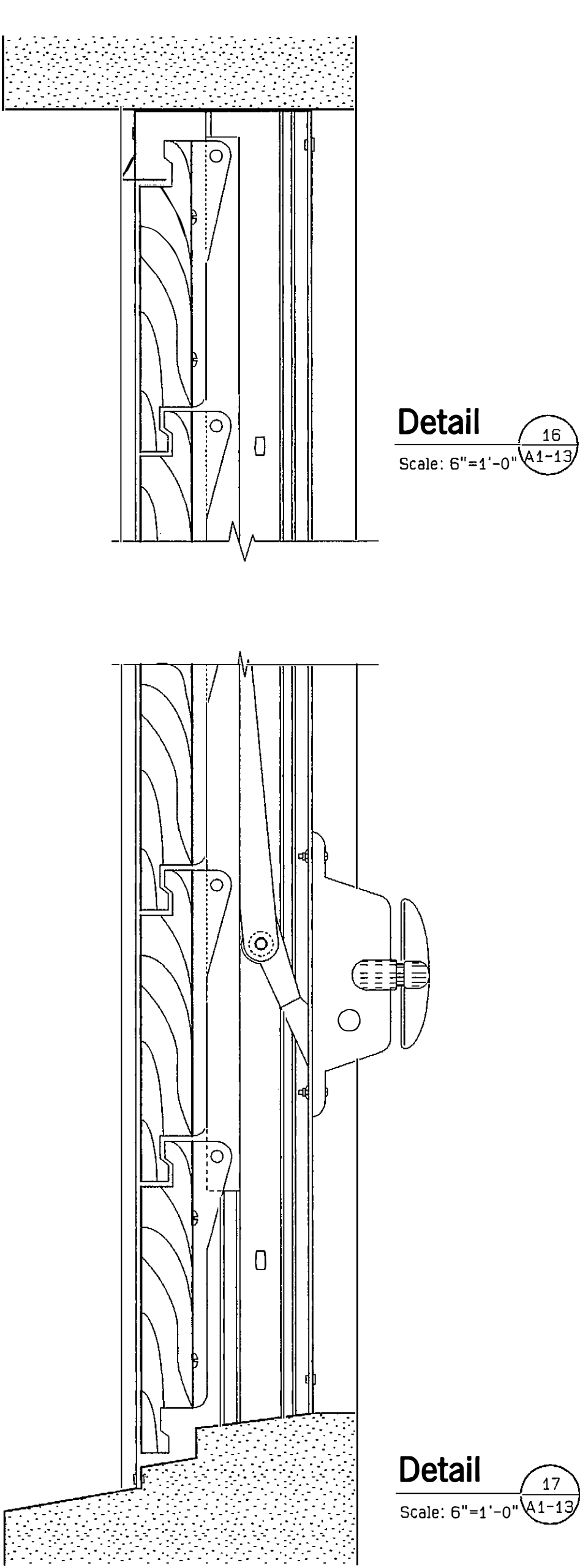
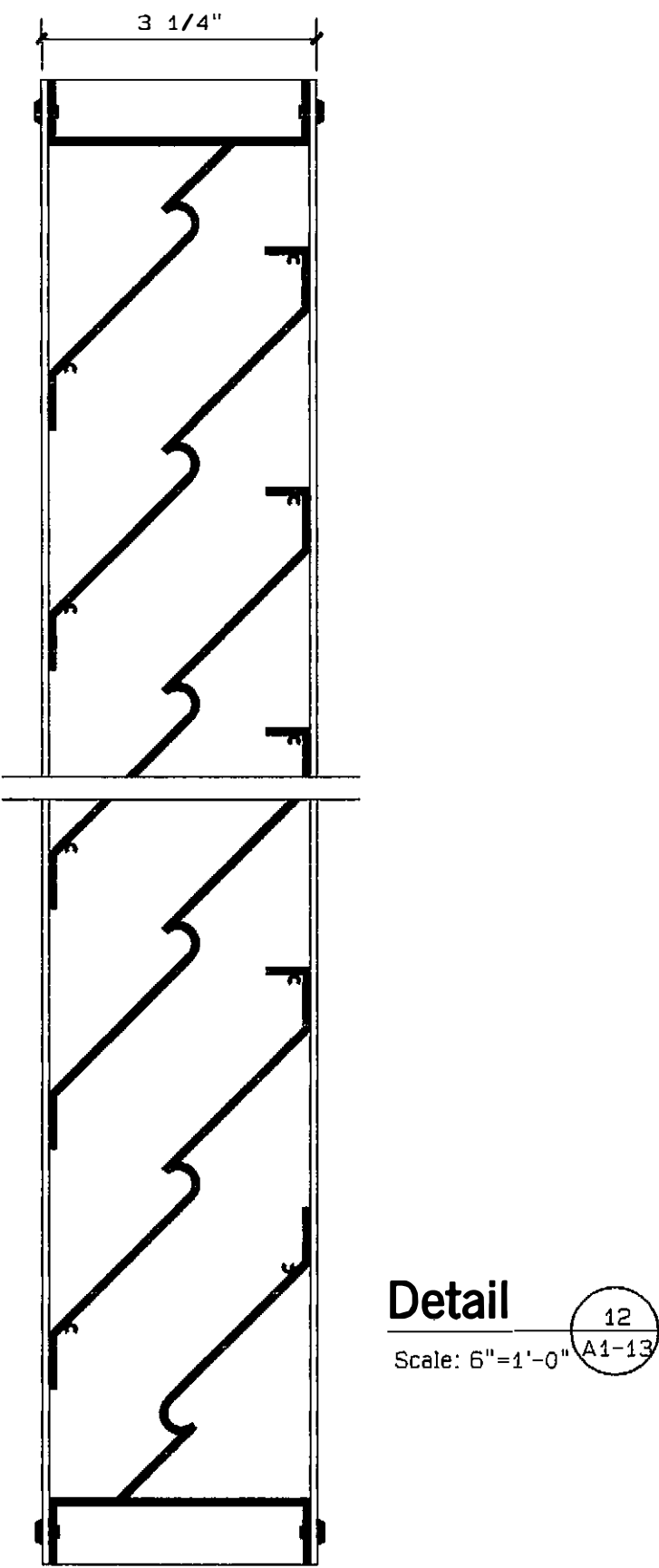
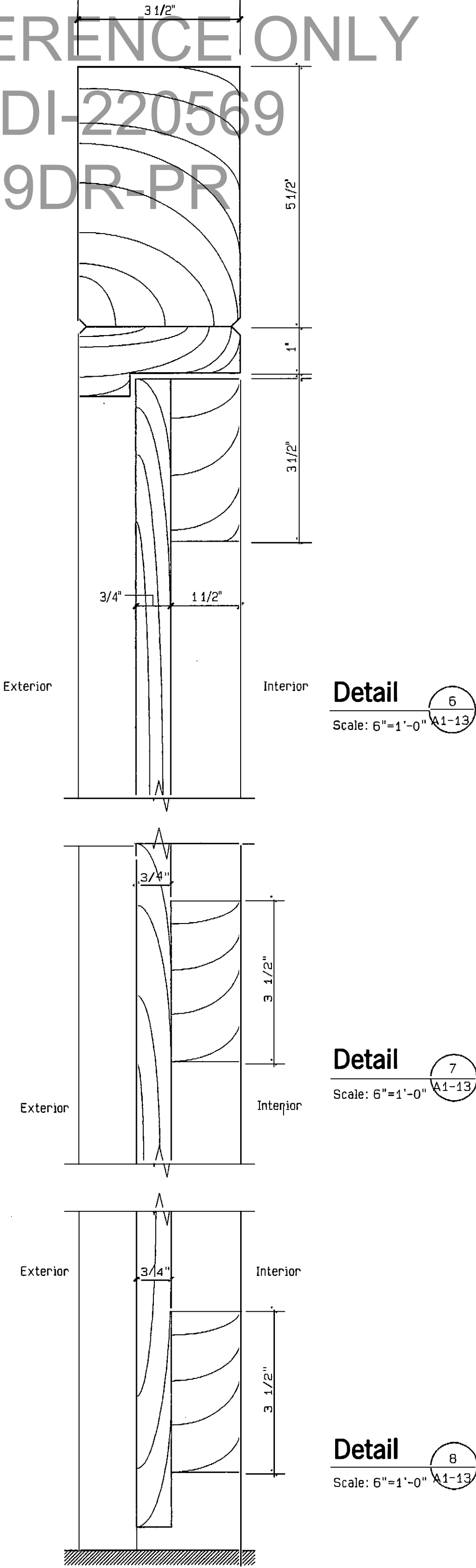
DATE REVISIONS

SCALE: As shown

Door & Window Types & Details
Building #1

A1
12

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PUERTO RICO

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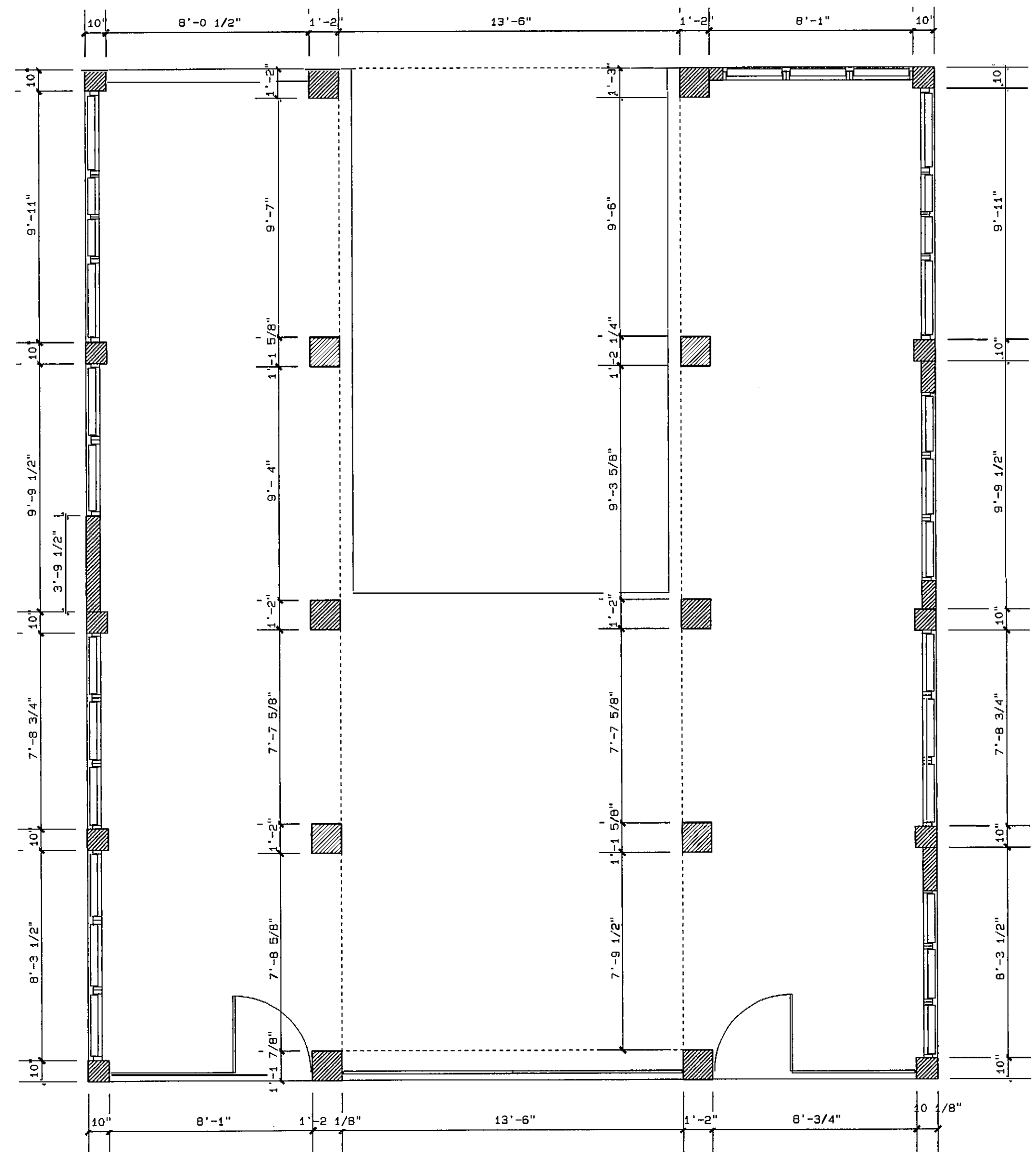
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Details
Building #1

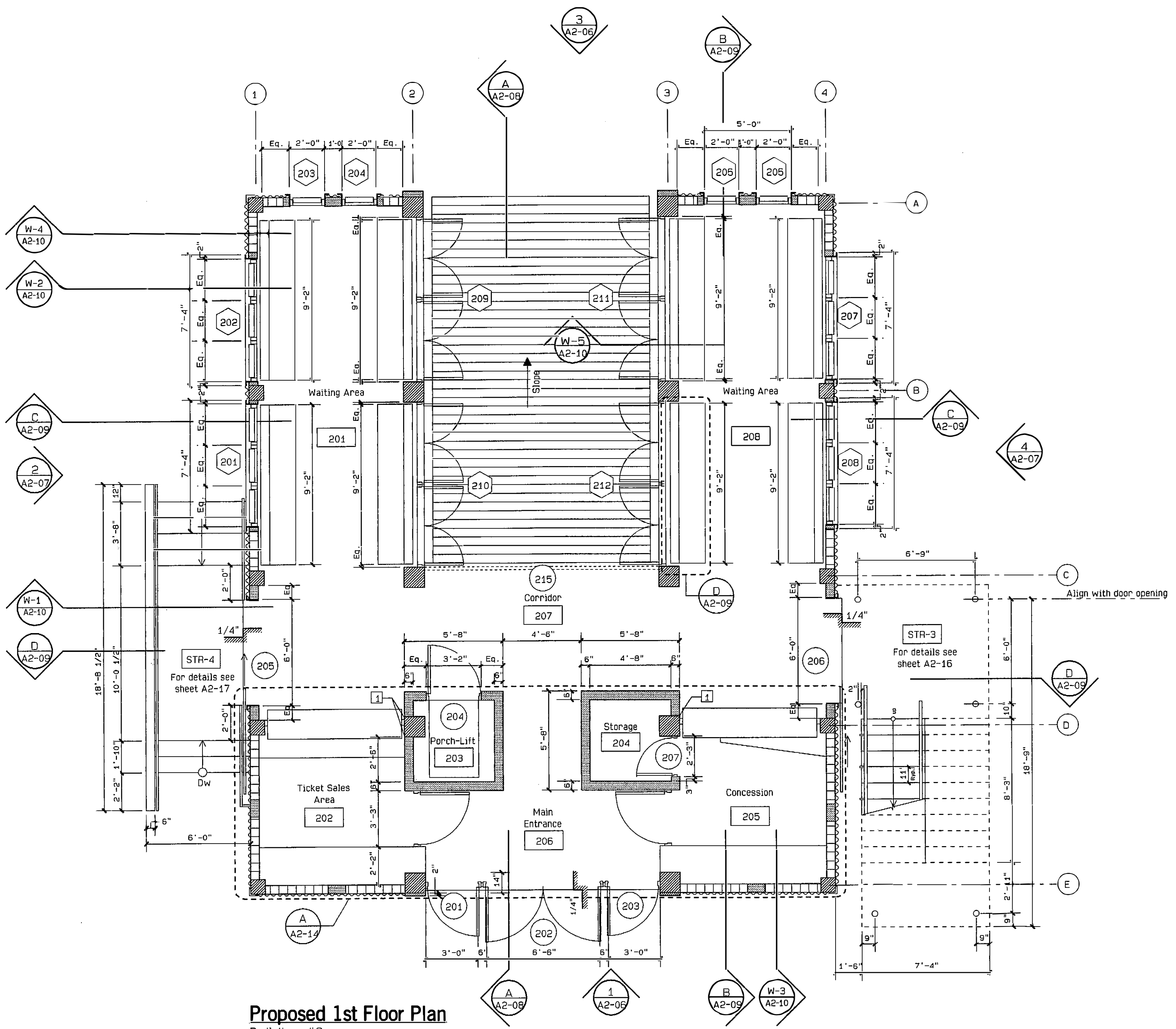
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13

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Existing 1st Floor Plan
Building #2
Scale: 1/4"=1'-0"

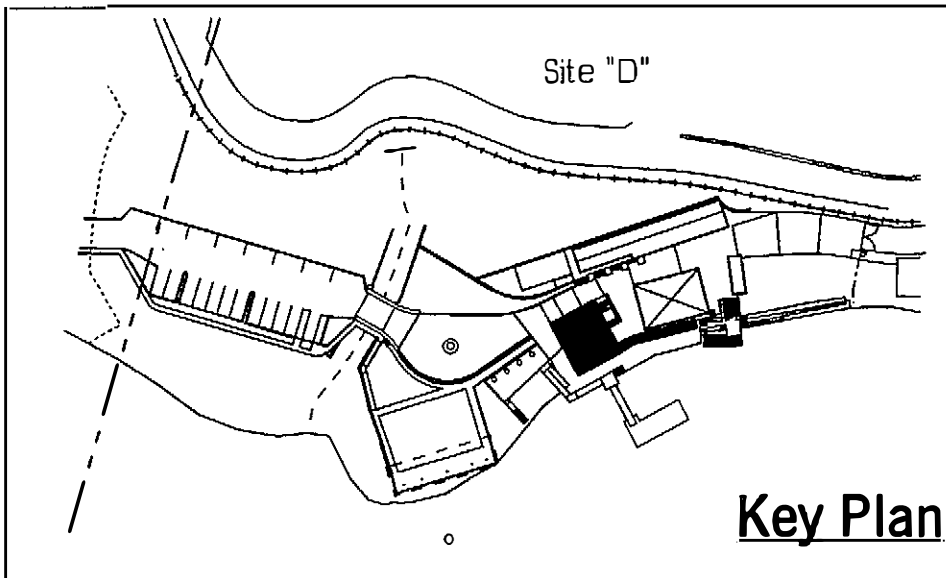


Proposed 1st Floor Plan
Building #2
Scale: 1/4"=1'-0"

SCHEDULE OF FINISHES / BUILDING 2							Notes
NO.	SPACE	FLOOR	WALLS	BASE	CEILING	HEIGHT	
201	Waiting Area	QT, STPC	PP, PPE	QT	PPE	9'-11"	
202	Ticket Sales Area	QT, STPC	PP, PPE	QT	PPE	9'-11"	
203	Porch-Lift	BF	PP, PPE	-	-	-	
204	Storage	BF	PP, PPE	-	PP	10'-9"	
205	Concession	QT, STPC	PP, PPE	QT	PPE	9'-11"	
206	Main Entrance	QT, STPC	PP, PPE	QT	-	26'-10"	
207	Corridor	QT, STPC	PP, PPE	QT	TW	11'-0"	
STR-4	Stair Type 4	STR-4	-	-	-	-	
refer to FINISH DESCRIPTIONS							

General Legend:

- Existing Wall
- New concrete wall/Column
- New Block Wall



Key Plan

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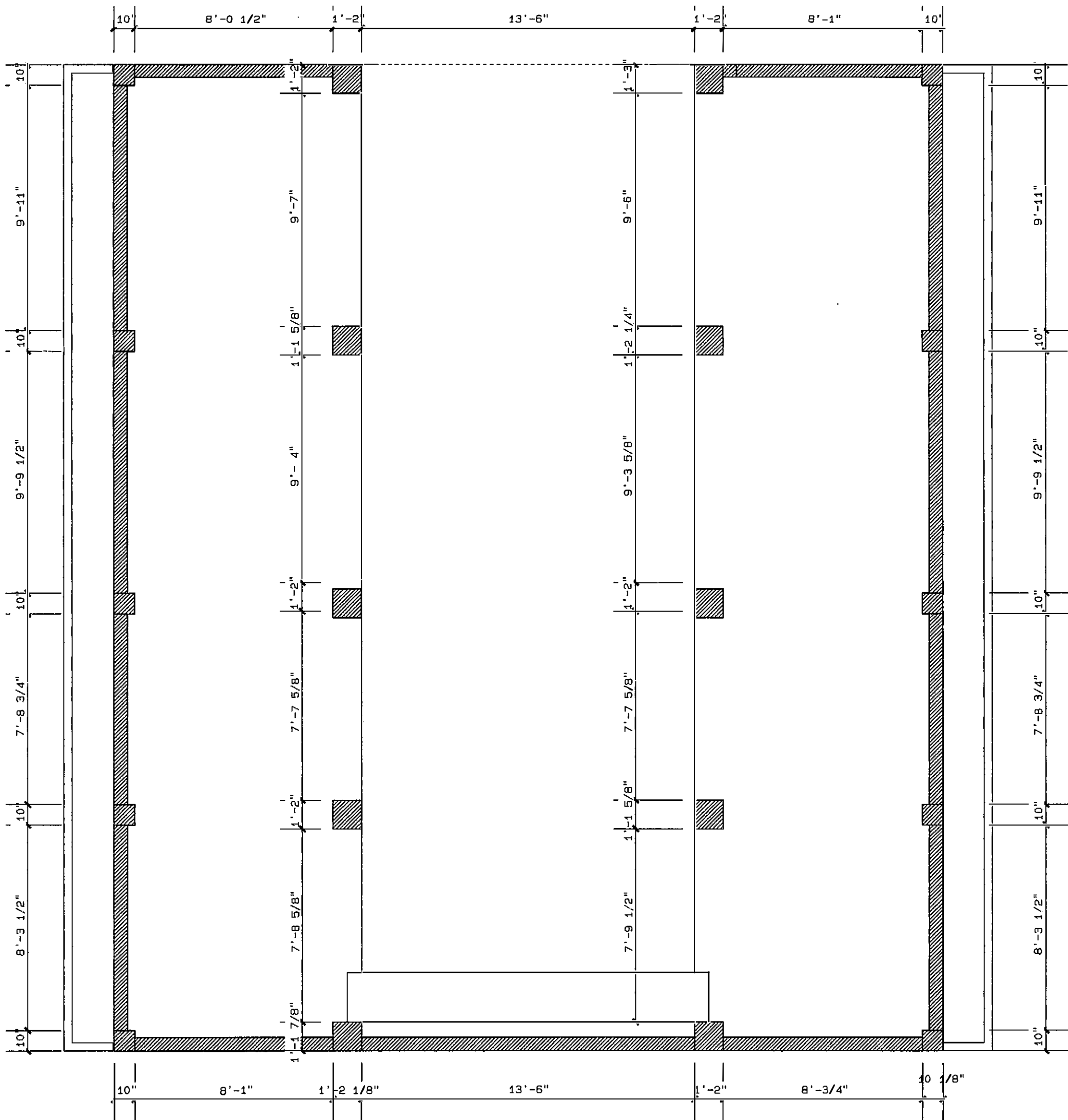
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1st Level Floor Plan
Building #2

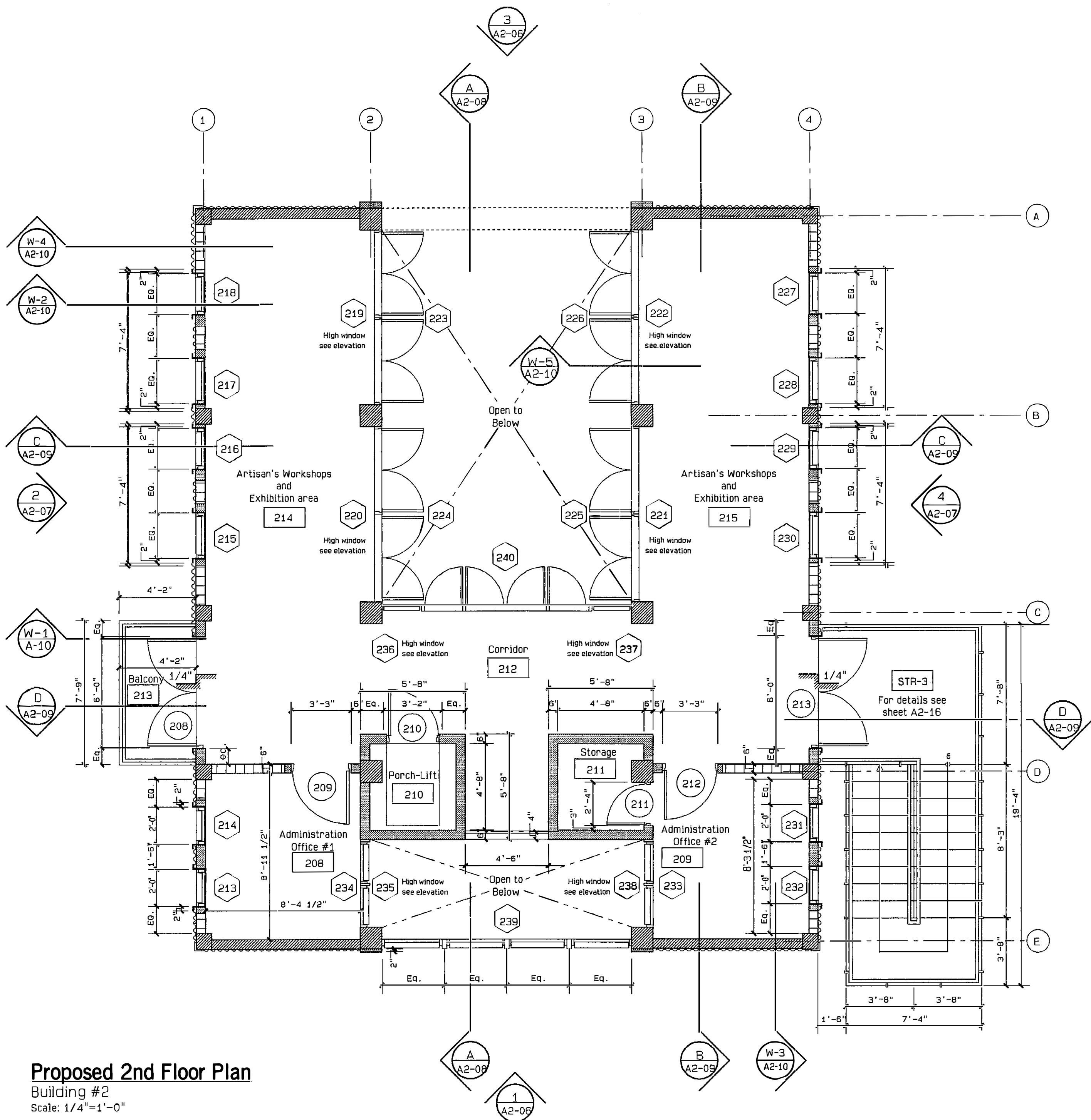
A2
01

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FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	93	181

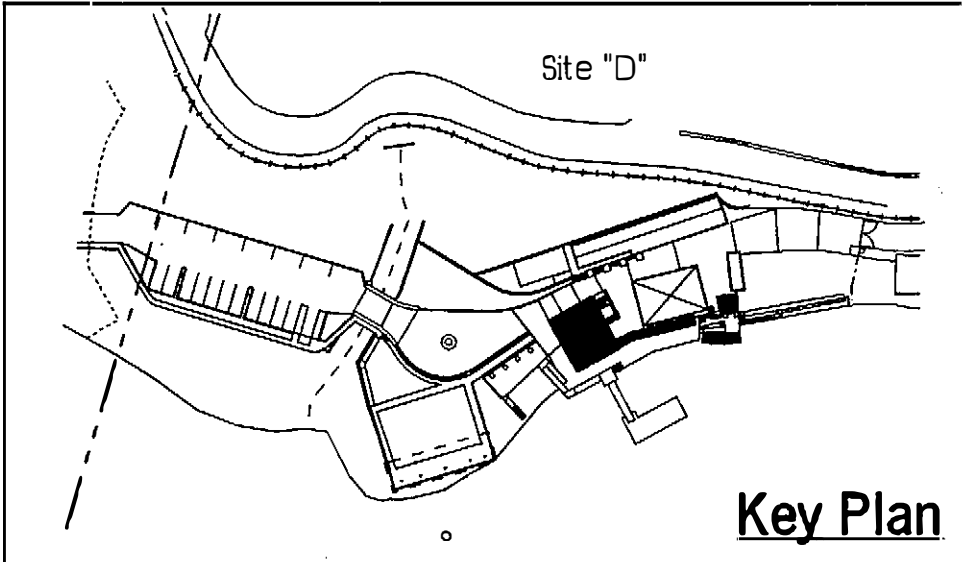


Existing 2nd Floor Plan
Building #2
Scale: 1/4"=1'-0"



Proposed 2nd Floor Plan
Building #2
Scale: 1/4"=1'-0"

SCHEDULE OF FINISHES / BUILDING 2							Notes
NO.	SPACE	FLOOR	WALLS	BASE	CEILING	HEIGHT	
208	Adm. Office #1	TGWB	PP, PPE	TW	TW	9'-0"	
209	Adm. Office #2	TGWB	PP, PPE	TW	TW	9'-0"	
210	Porch-Lift	-	PP, PPE	-	TW	18'-8"	
211	Storage	BF	PP, PPE	-	PP	7'-8"	
212	Corridor	TGWB	PP, PPE	TW	TW	15'-8"	
213	Balcony	TGWB	-	-	-	26'-10"	
214	Artisans Workshop and Exhibition Area	TGWB	PP, PPE	TW	TW	11'-0"	
STR-3	Stair Type 3	STR-3	-	-	-	-	
refer to FINISH DESCRIPTIONS							



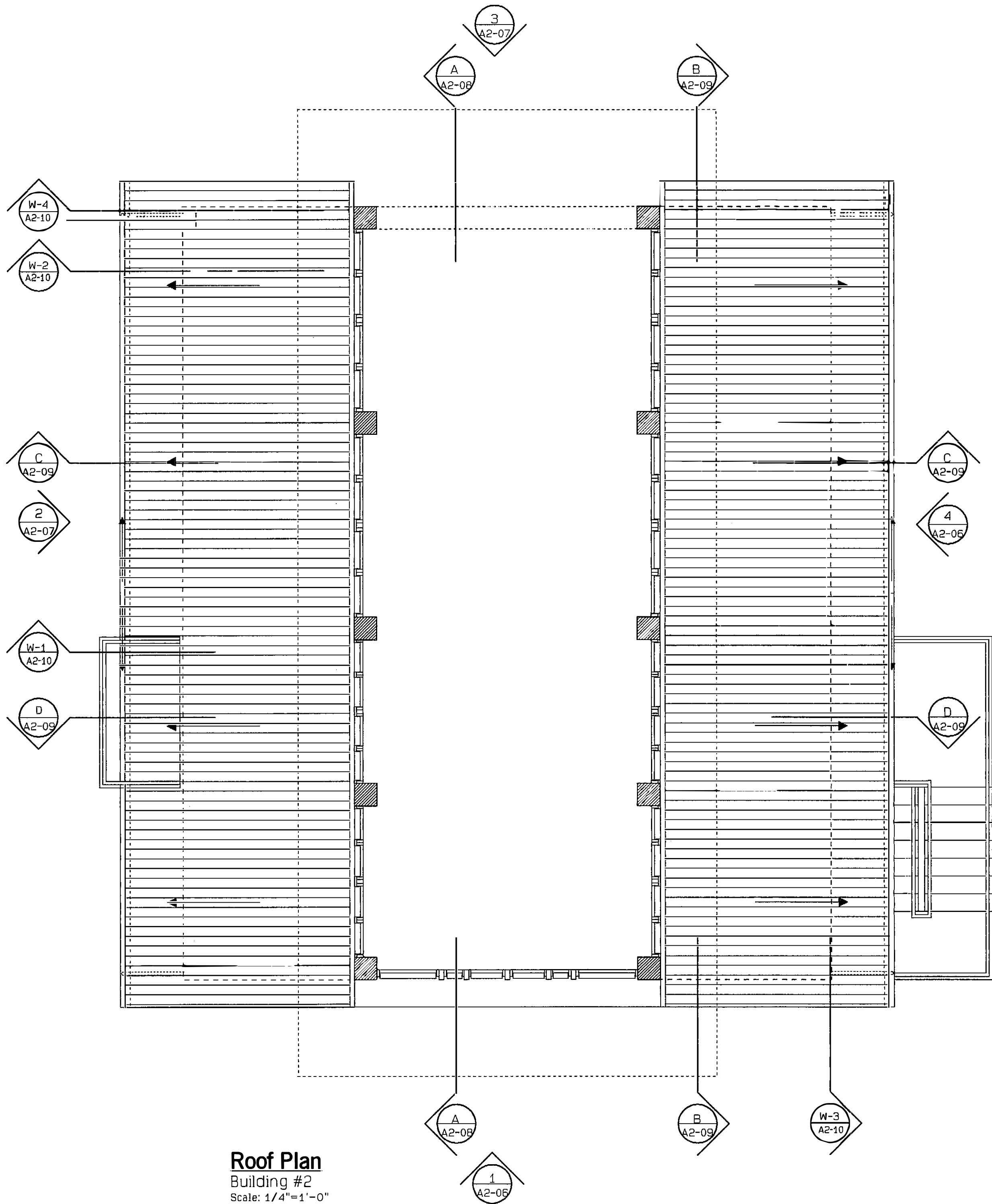
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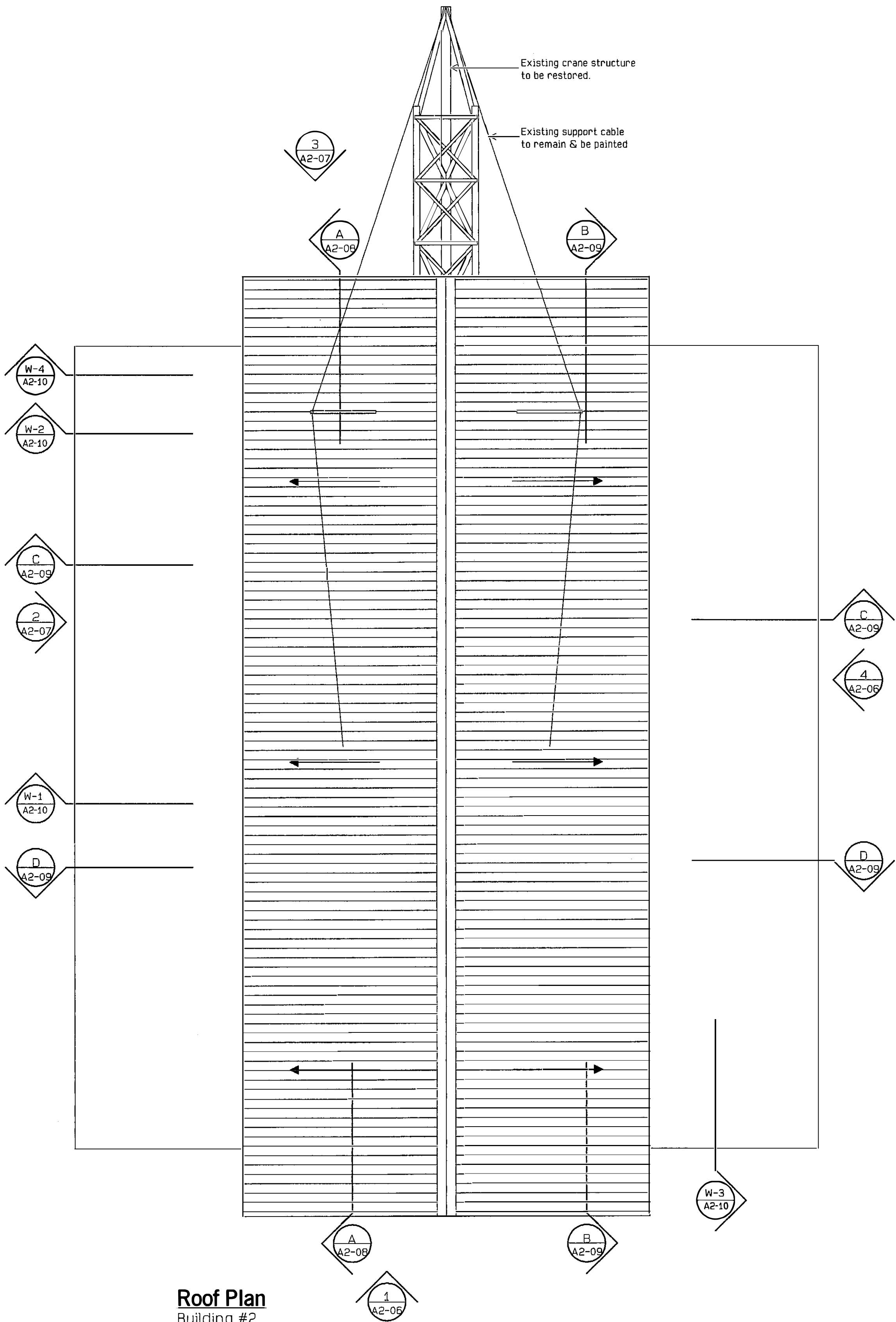
DATE	REVISIONS	SCALE: 1/4"=1'-0"	2nd Level Floor Plan Building #2	A2 02

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Roof Plan
Building #2
Scale: 1/4"=1'-0"



Roof Plan
Building #2
Scale: 1/4"=1'-0"

- STEEL DECK (ROOF) NOTES / EMBARCADERO LAGO DOS BOCAS
Resting Area No. 2**
- Galvanized steel roof deck shall be type "S" deck, corrugated structural metal sheathing as fabricated by BERRIDGE MANUFACTURING COMPANY, 1720 Maury Street, Houston, Texas 77026, phone numbers (800) 231-8127 / (713) 223-4971 or approved equal.

The general specifications are:
a. Panel thickness - 24 gauge
b. Panel steel conforms to ASTM A446-85 Grade C.
c. The exterior finish shall be full-strength KYNAR 500, Galvalume fluorocarbon coating. Top side film thickness shall be 0.70 to 0.90 mil over a 0.25 to 0.30 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil. The interior finish of this material shall be coated with a primer with a minimum dry film thickness of 0.25 mil.
d. Color shall be: Terra Cotta.
 - All pertinent details of ridges, flashings and channels for steel roofs will be submitted by the Contractor and/or manufacturer of the galvanized steel roof. These will be approved by the Architect before proceeding to their fabrication.
 - All steel roofing shall be connected to ground (grounded) to conform with Article 250 from the National Electric Code, 1993 edition.

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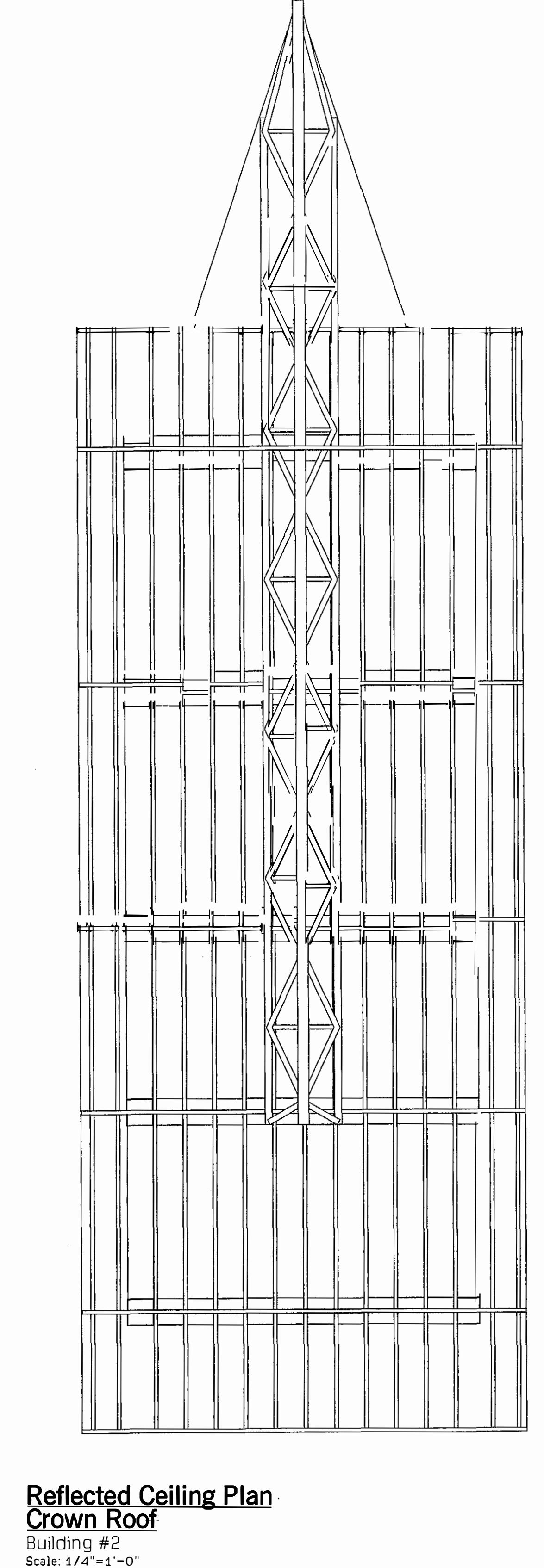
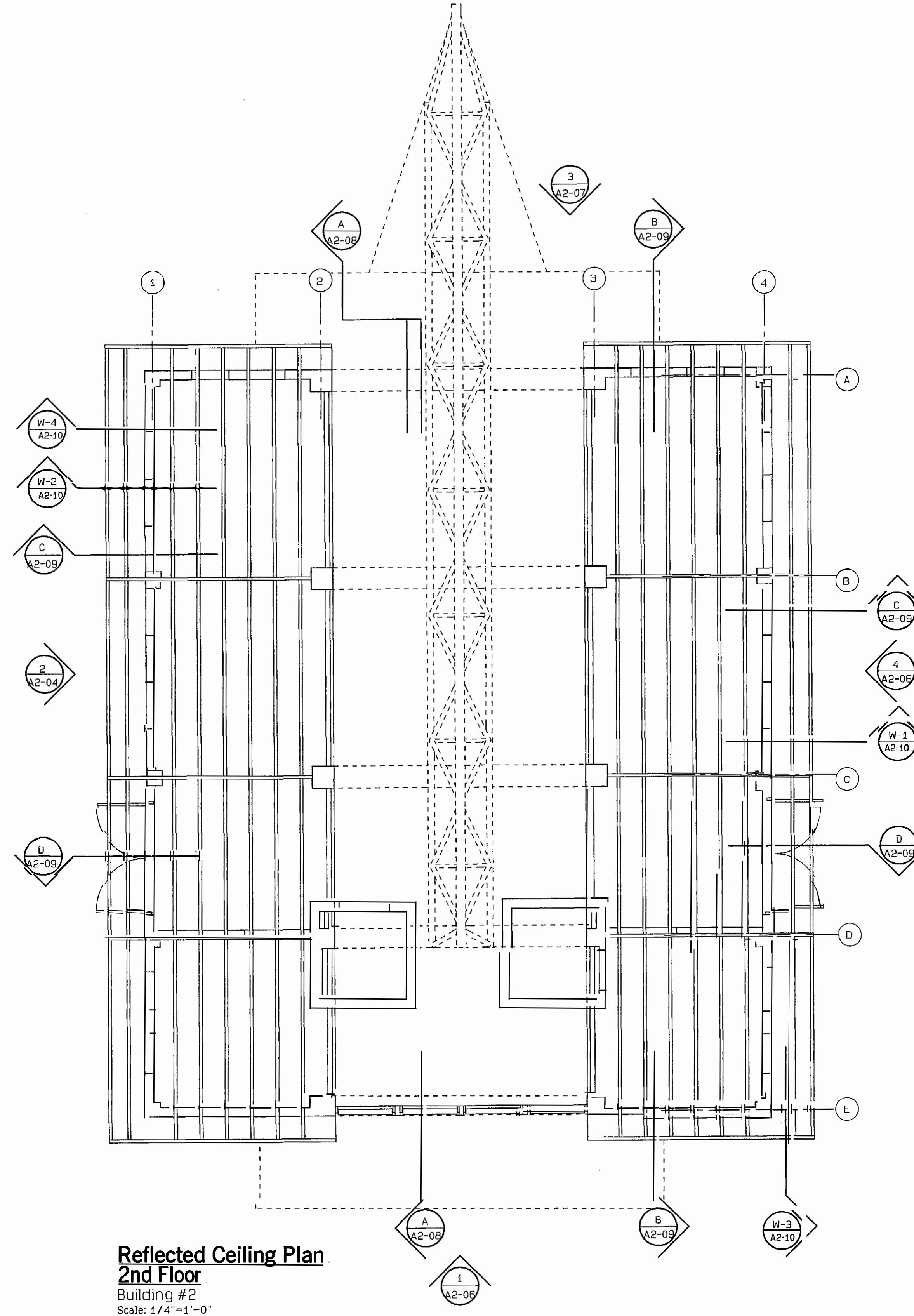
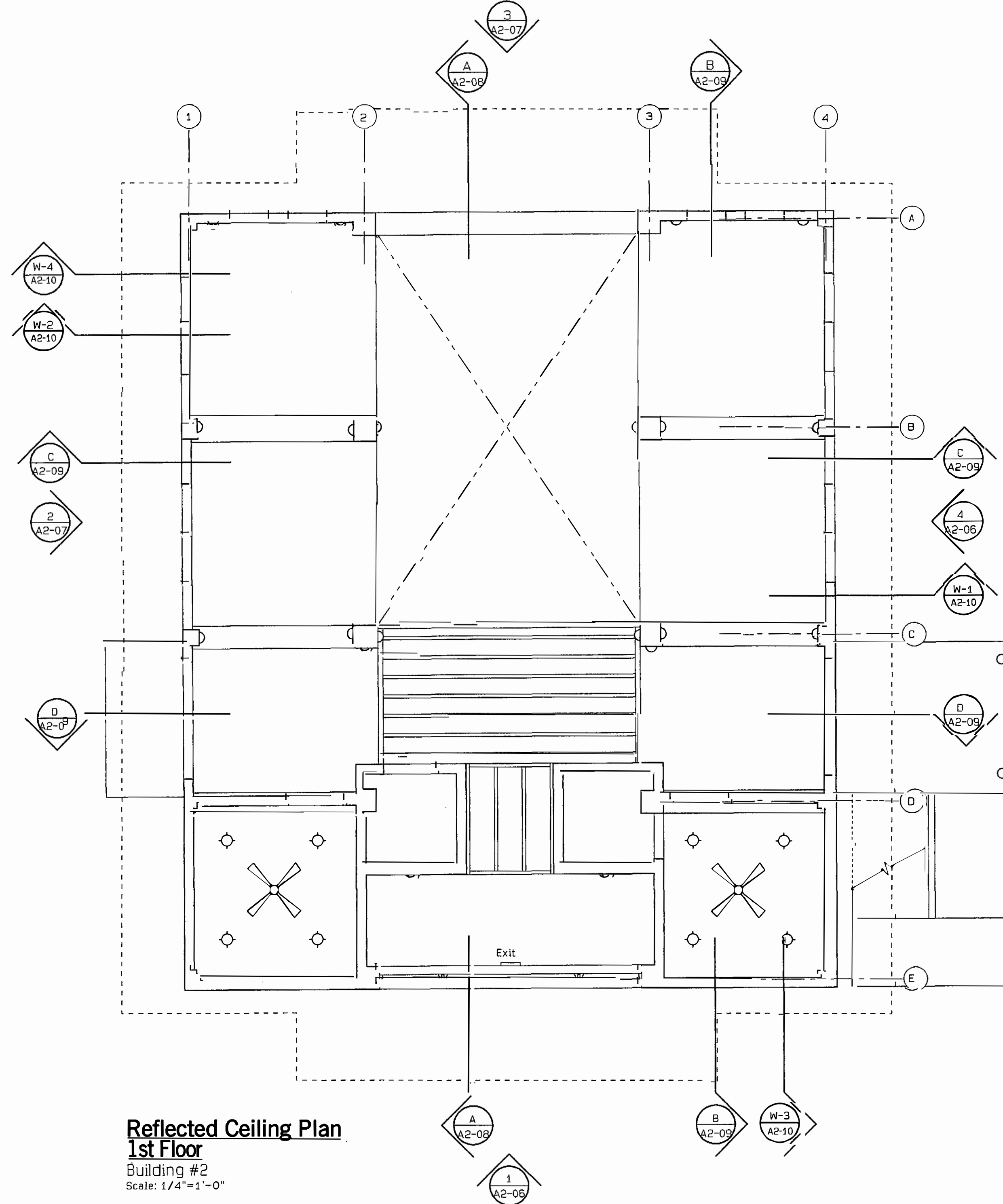
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Roof plan
Building #2

A2
03

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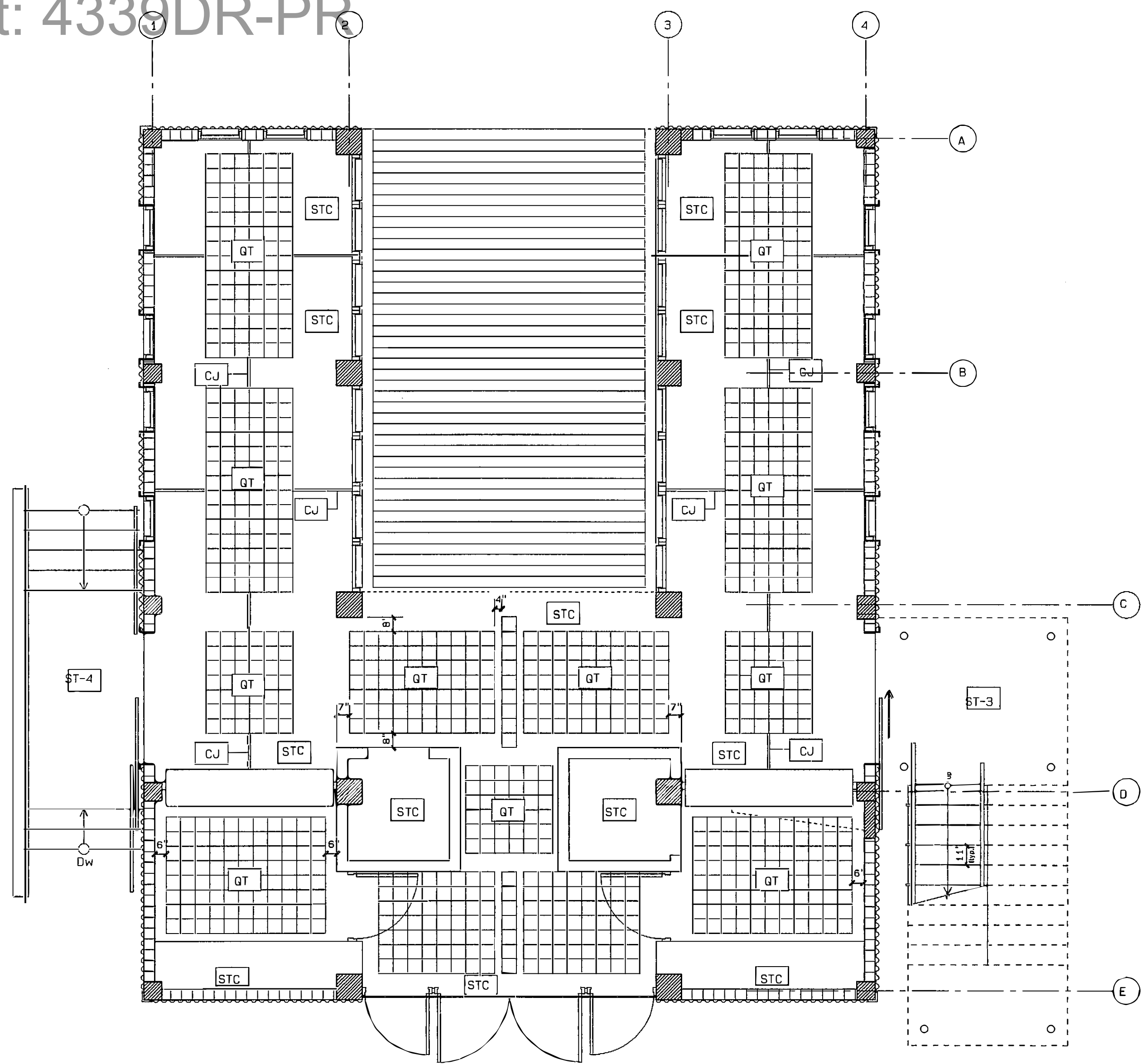
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Reflected Ceiling Plan
Building #2

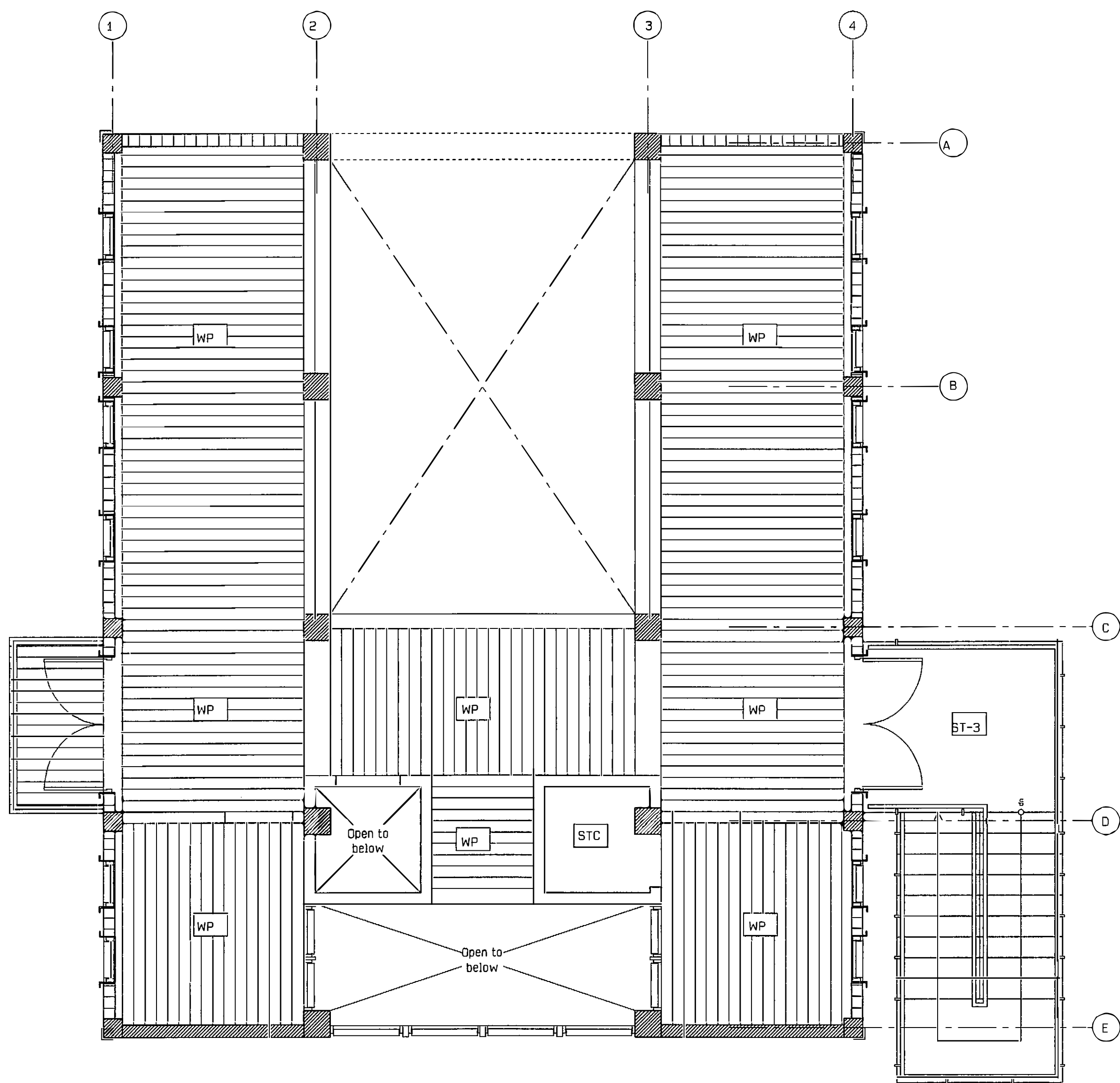
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Floor Pattern Plan
1st Floor
Scale: 1/4"=1'-0"



Floor Pattern Plan
2nd Floor
Scale: 1/4"=1'-0"

Finishes Legend:

Refer to finishes table and
finishes description

- CJ Control Joint
- QT Quarry Tile
- STC Steel Troweled Cement
- WP Wood Planks
- ST-3 Stairs-3
- ST-4 Stairs-4

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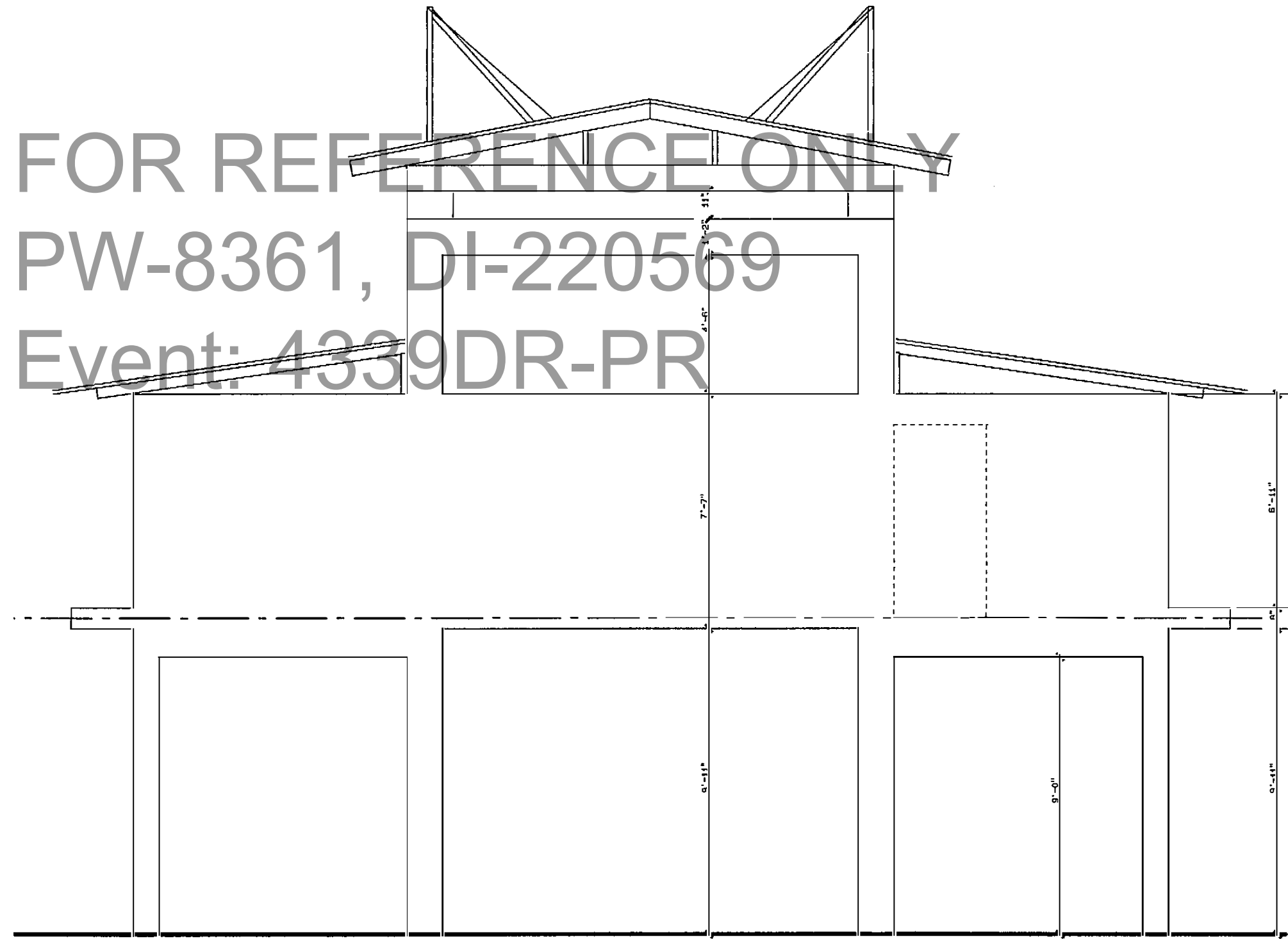
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PUERTO RICO

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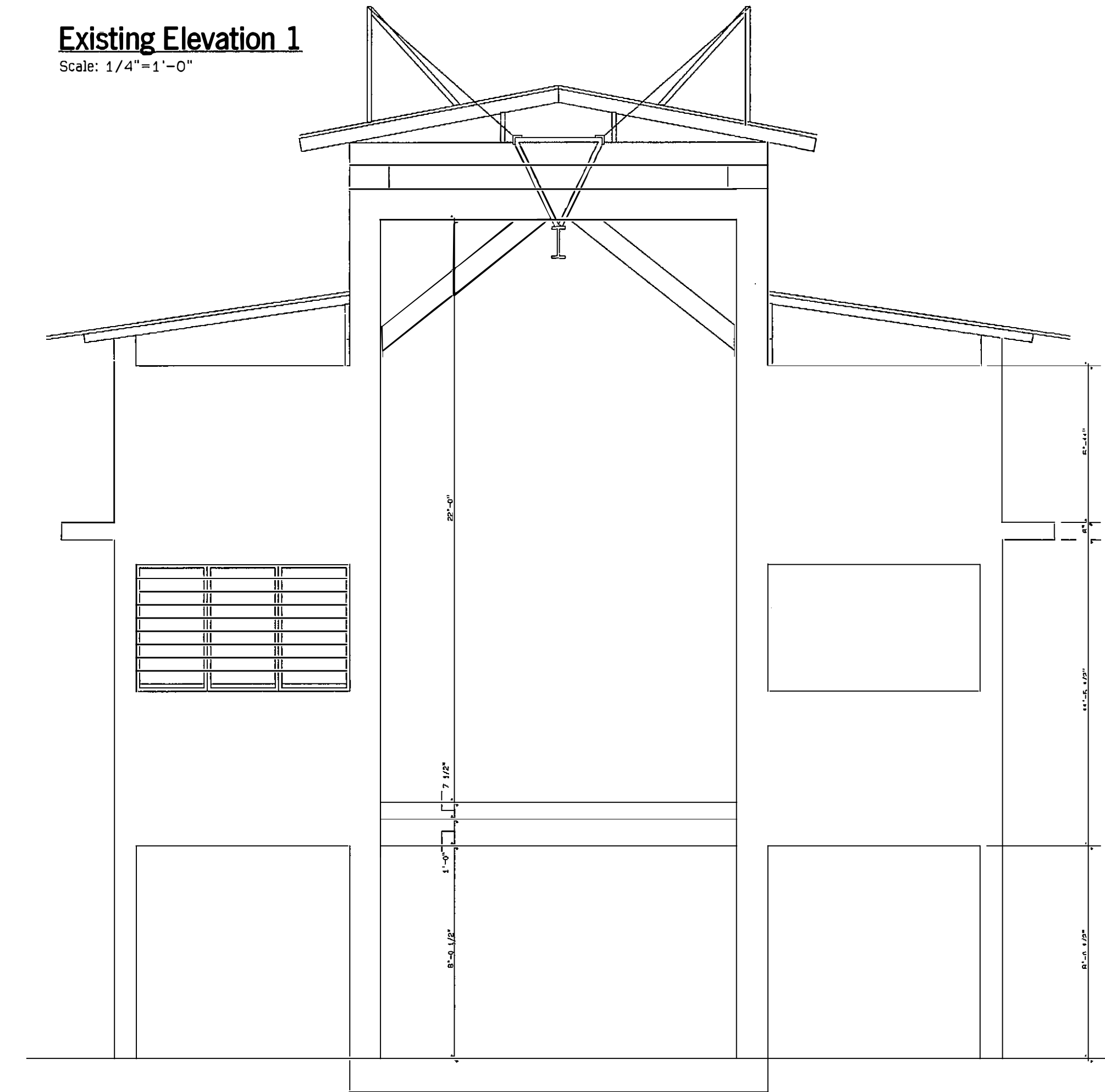
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Floor Pattern
Building #2

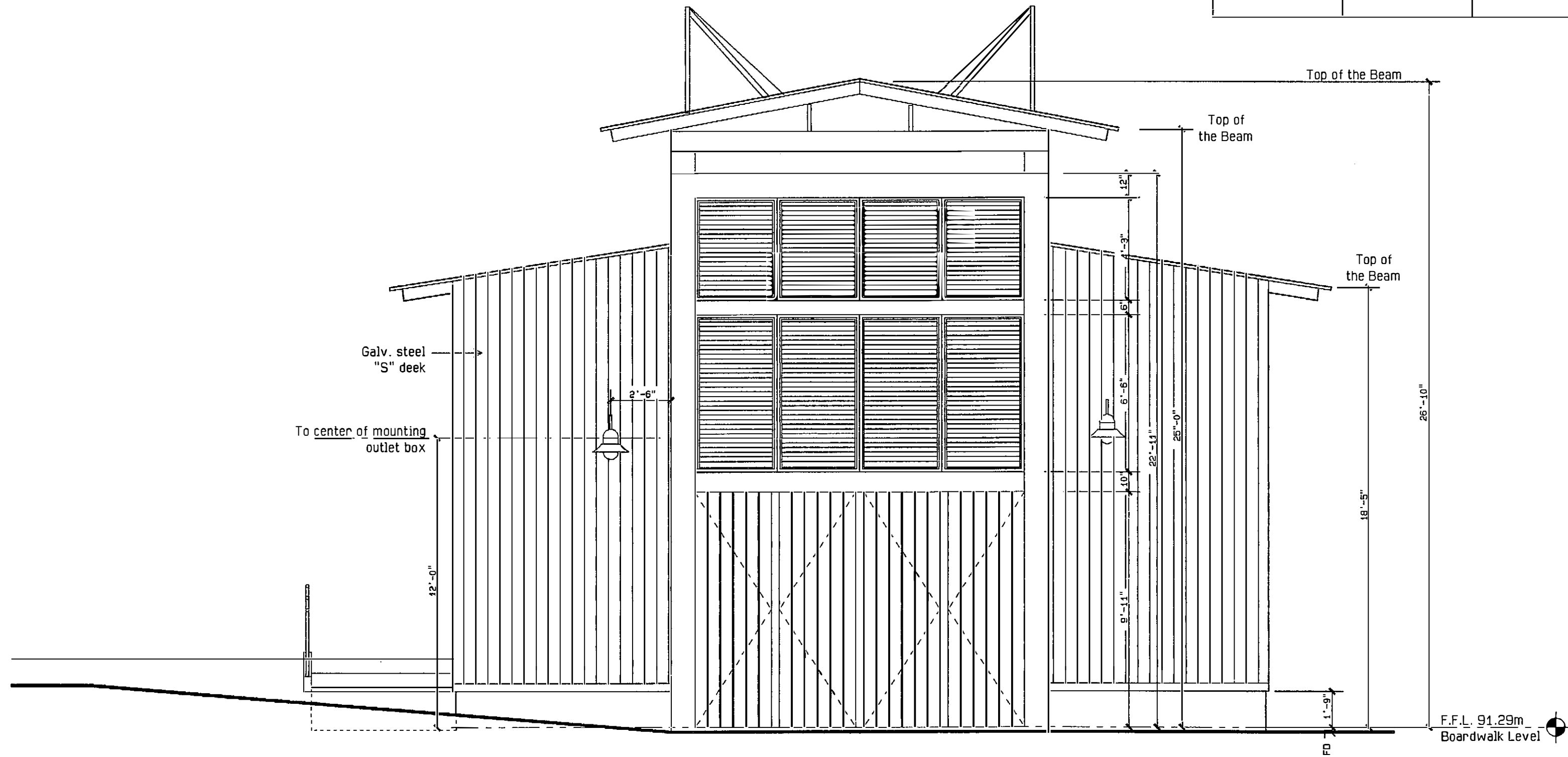
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05



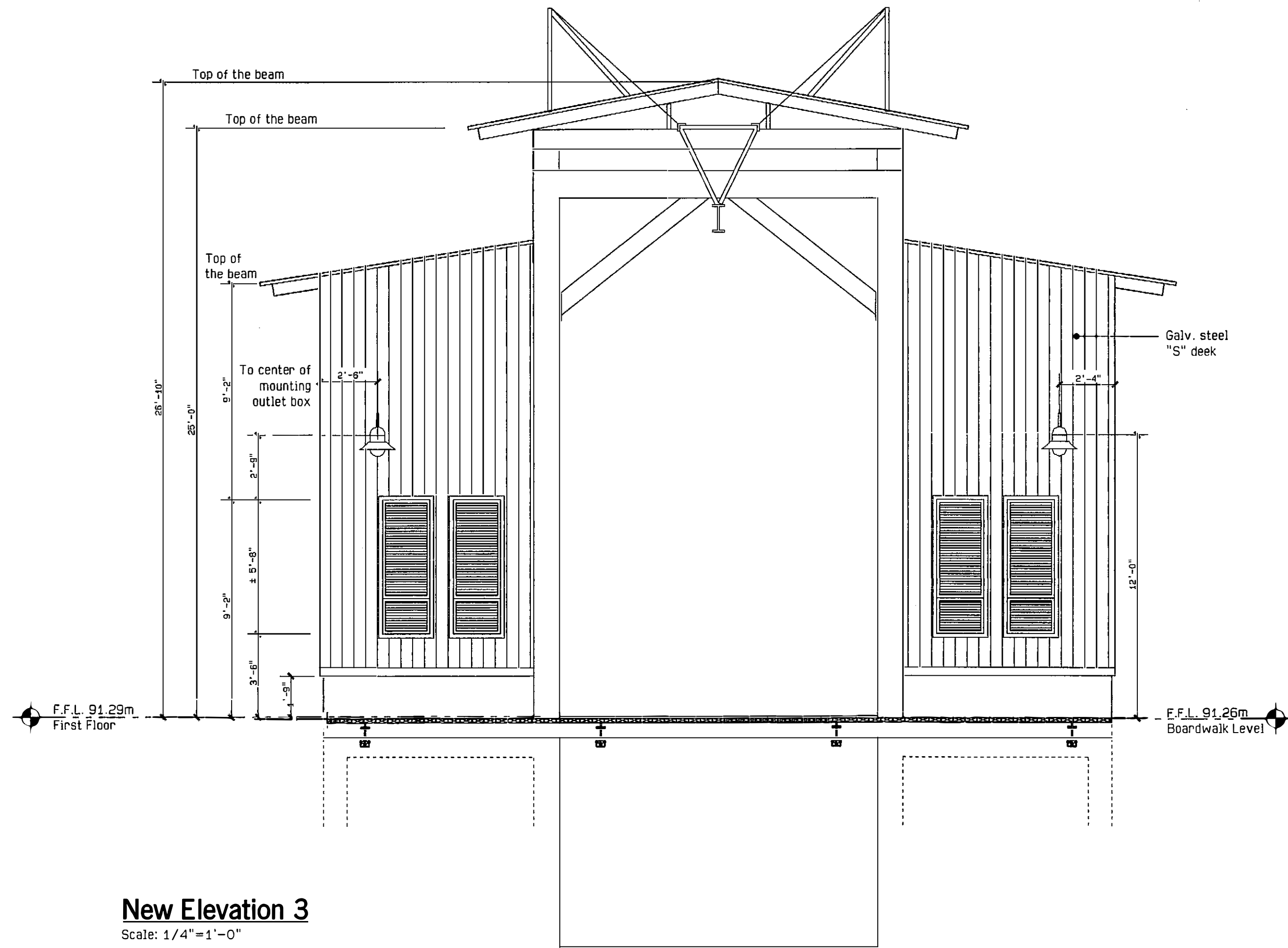
Existing Elevation 1
Scale: 1/4"=1'-0"



Existing Elevation 3
Scale: 1/4"=1'-0"



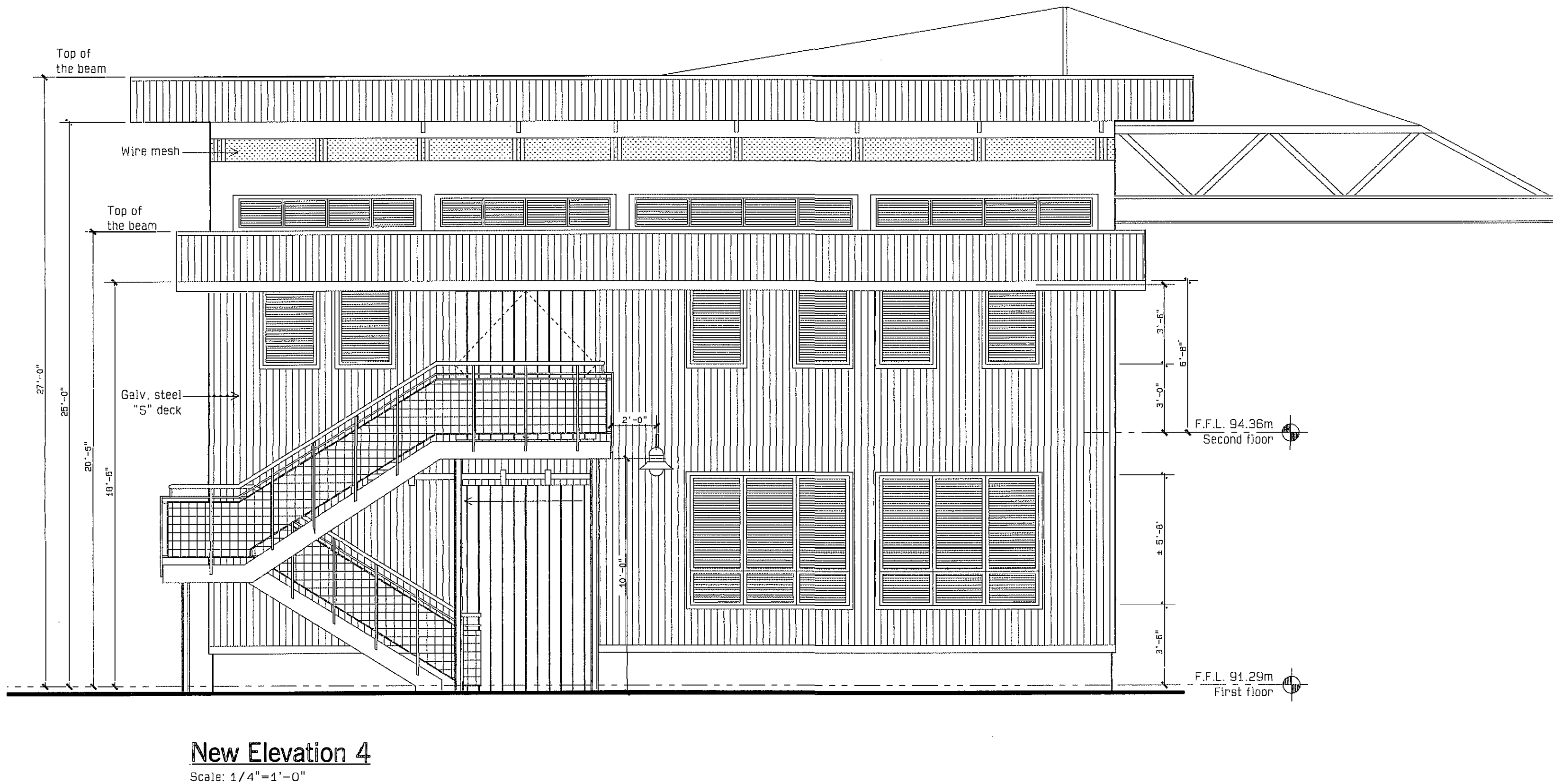
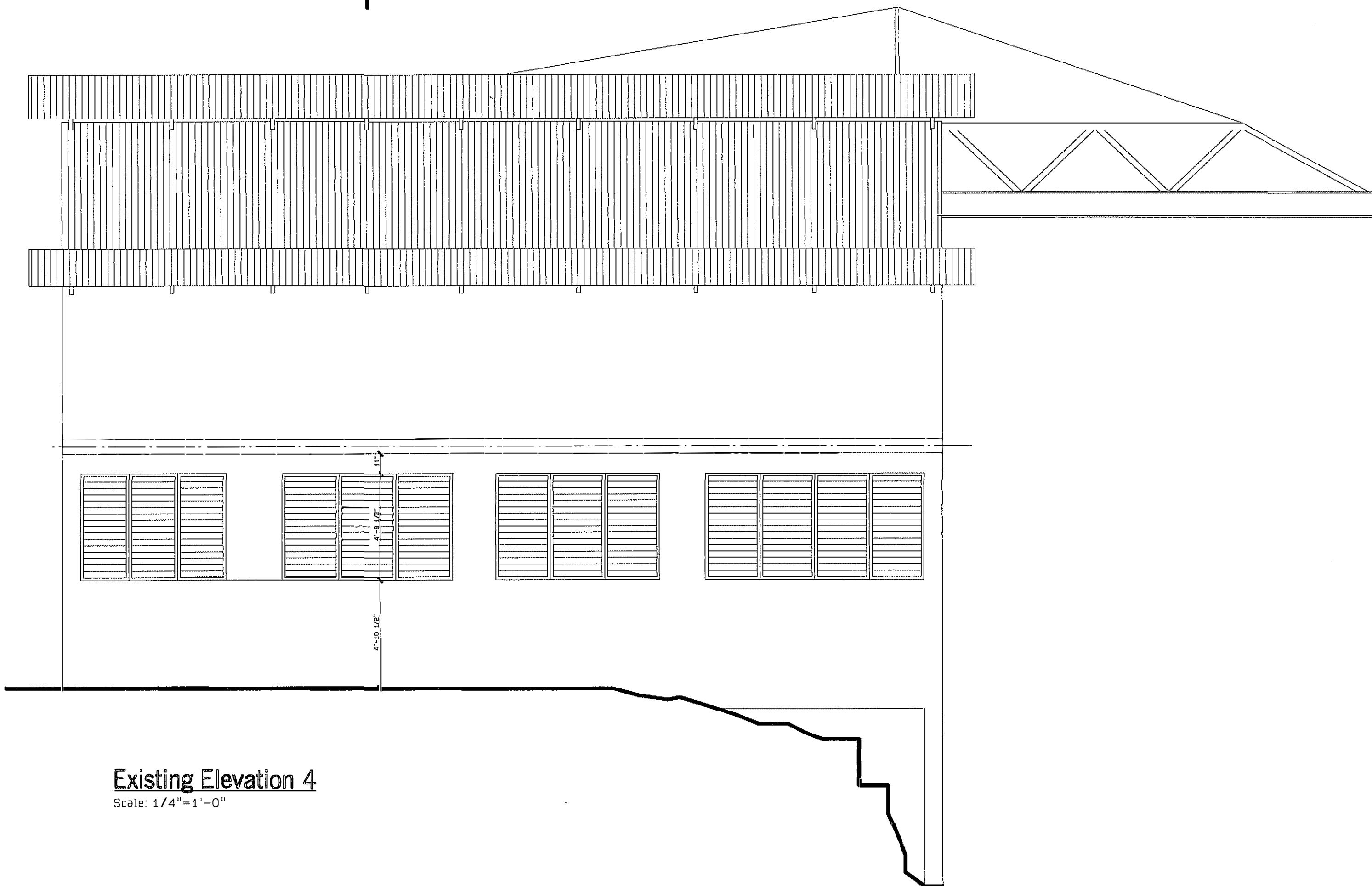
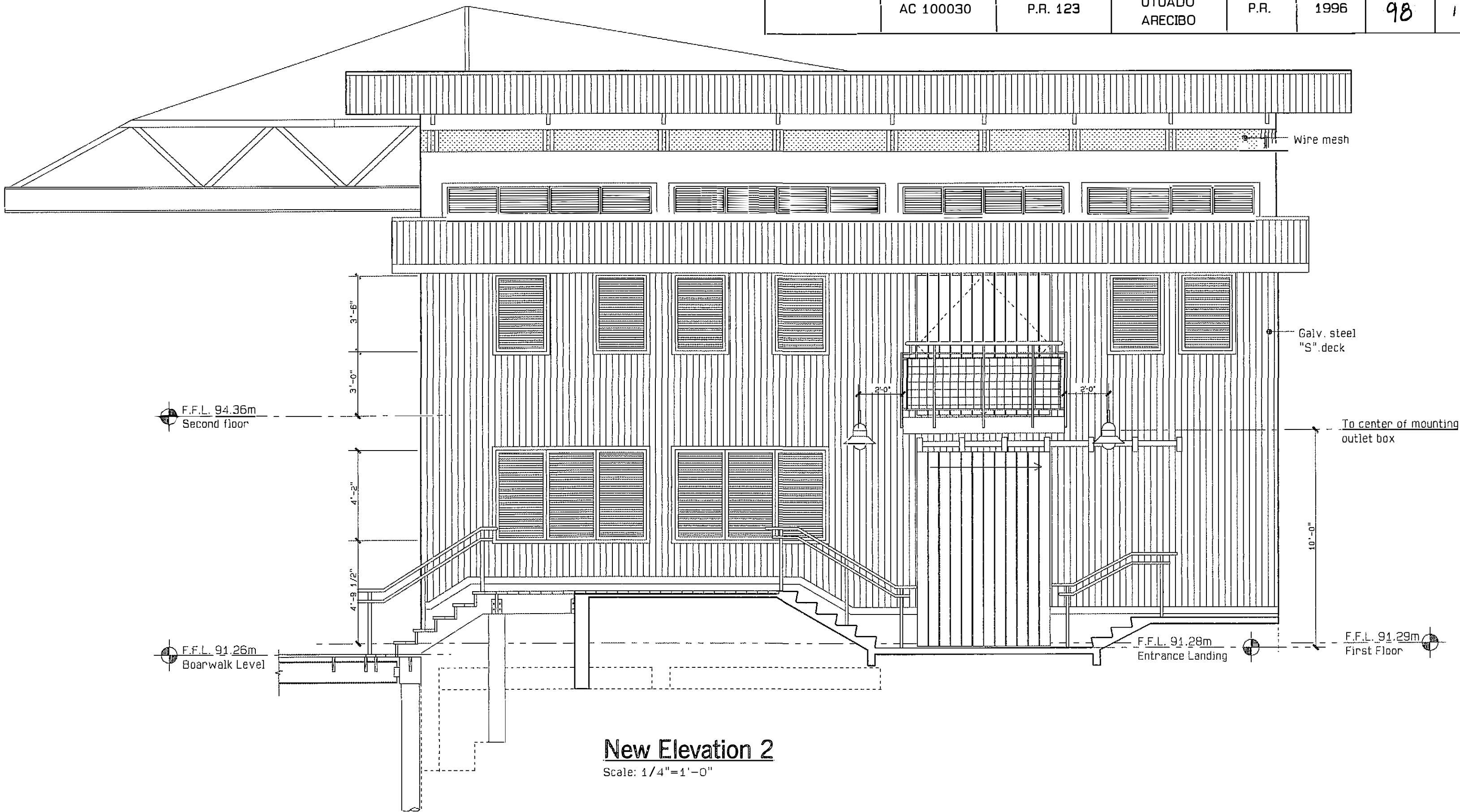
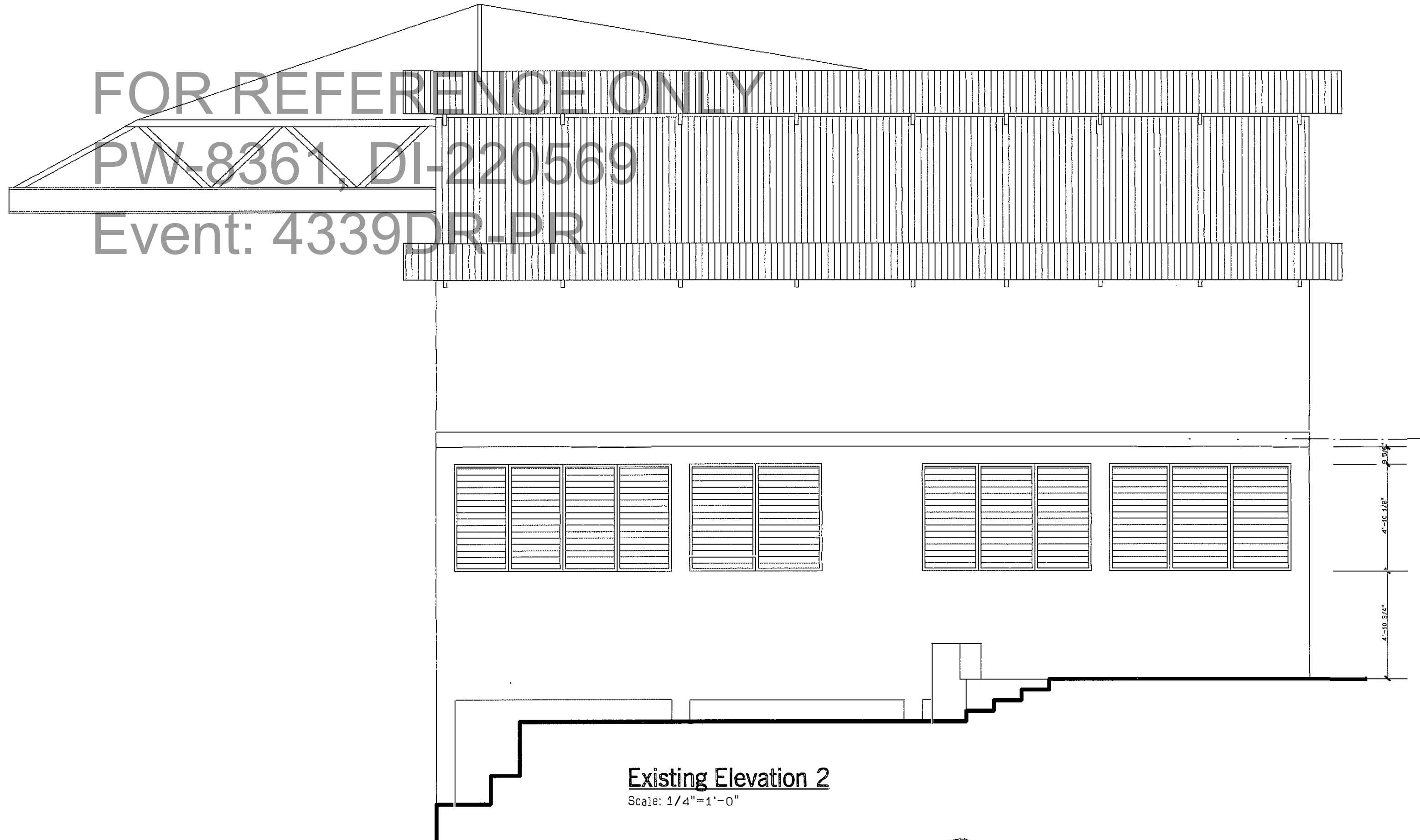
New Elevation 1
Scale: 1/4"=1'-0"



New Elevation 3
Scale: 1/4"=1'-0"

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Note: For stair reinforcement and footing refer to structural drawings on sheet S-2.4

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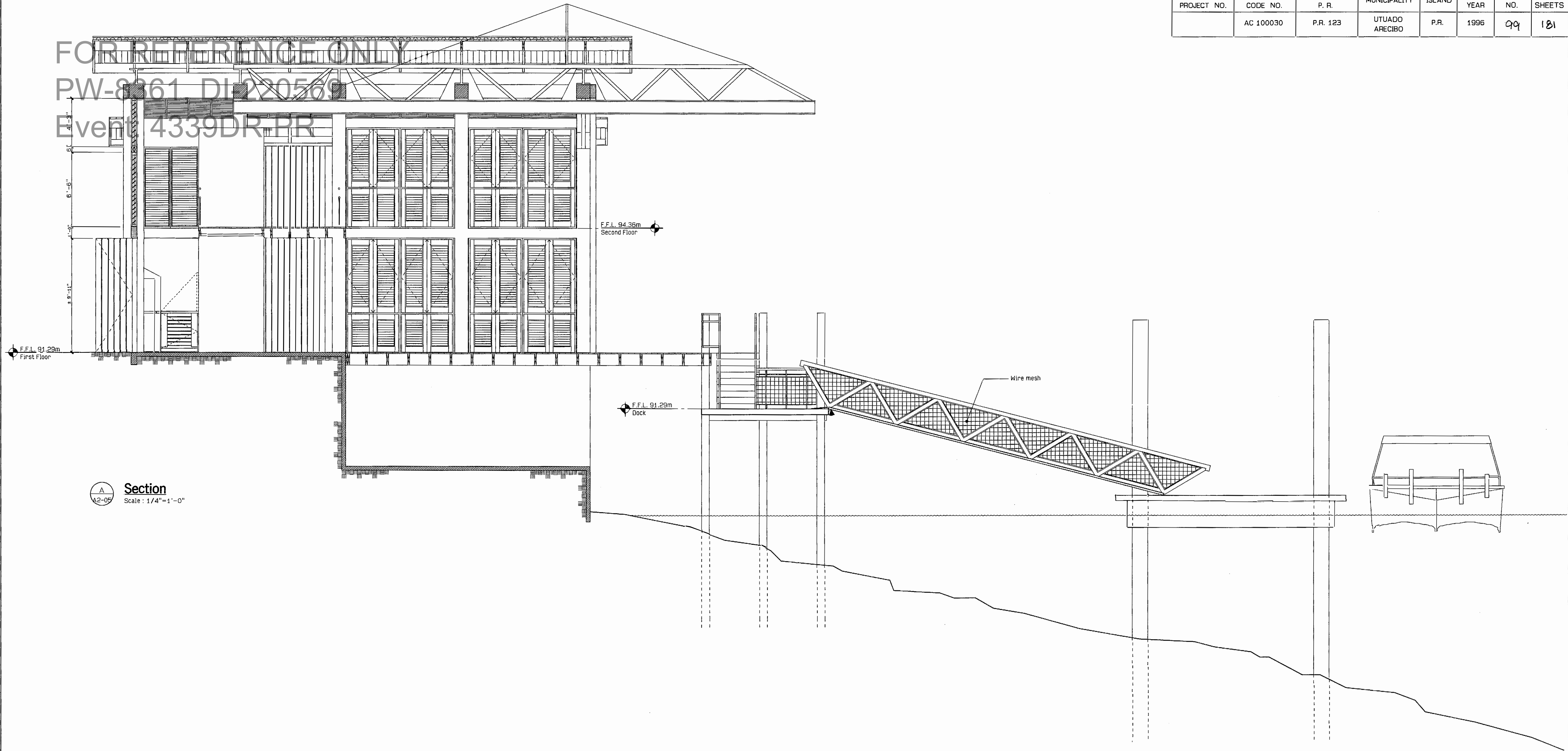
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Existing & New Elevations
Building #2

A2

07

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	99	181



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

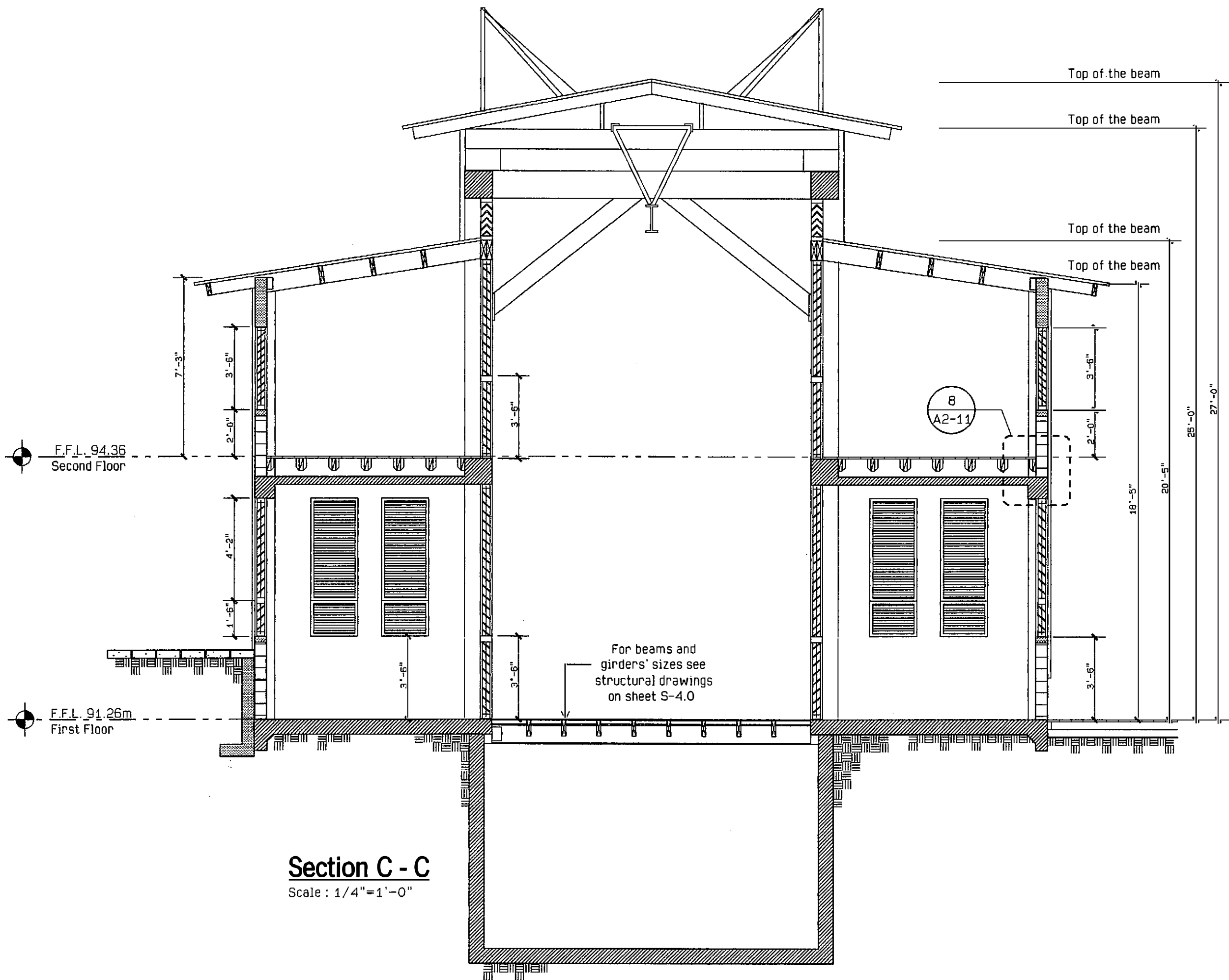
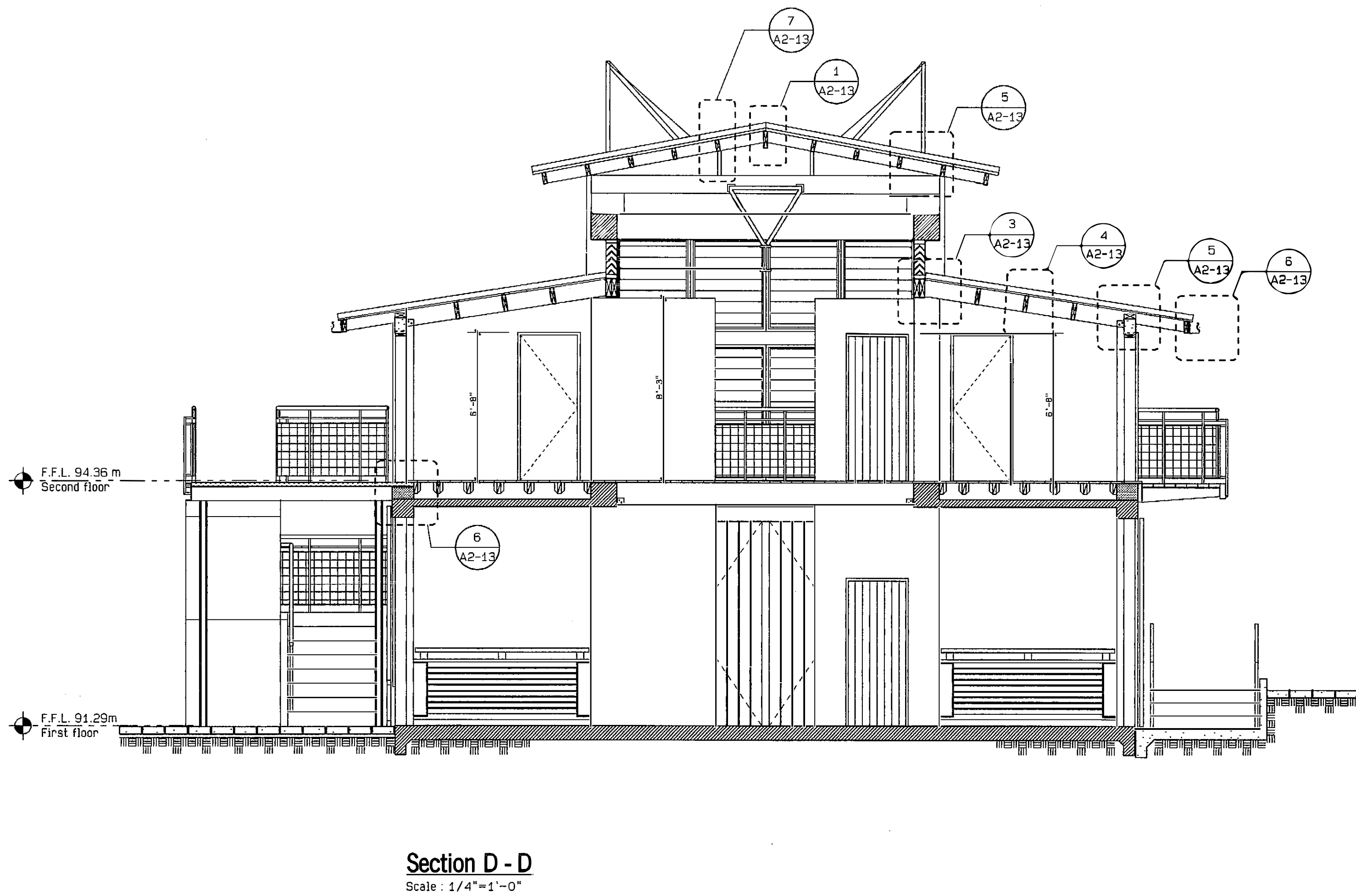
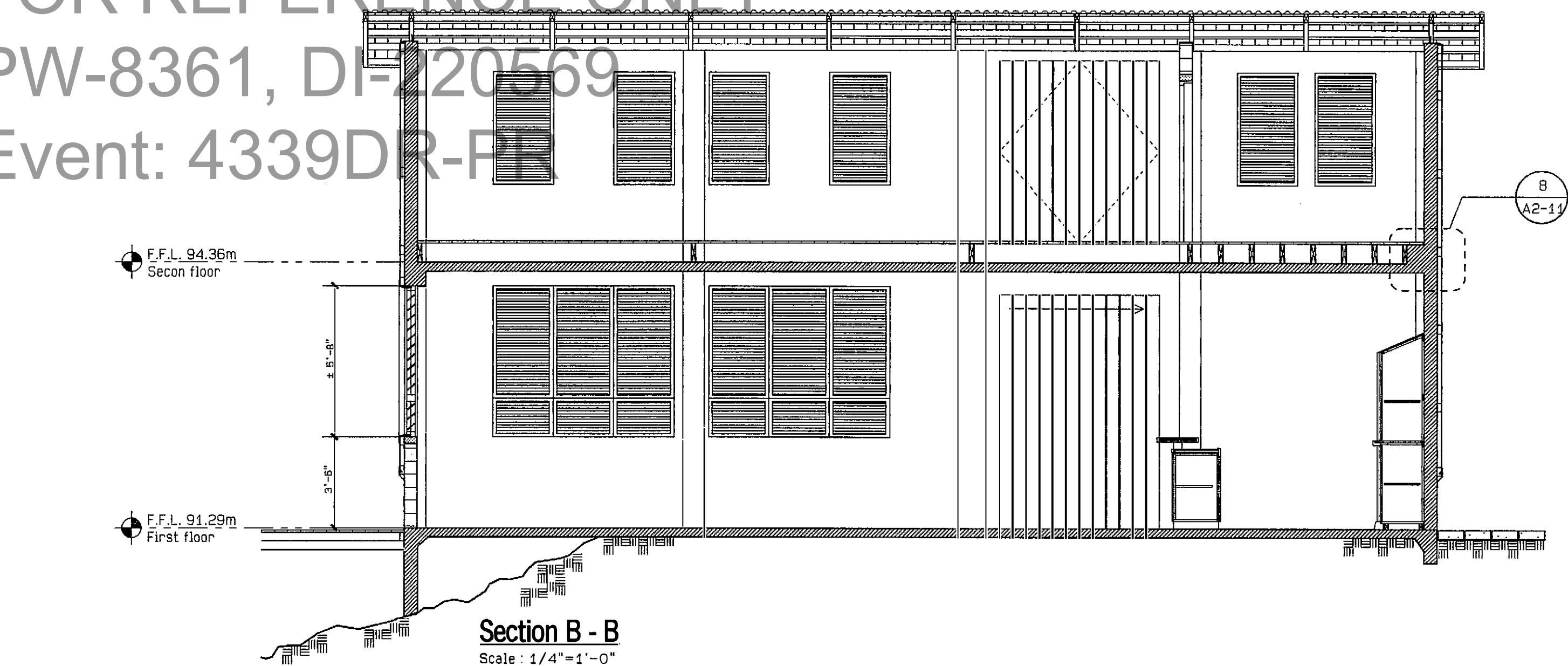
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Section "A"
Building #2

A2
08

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	100	181

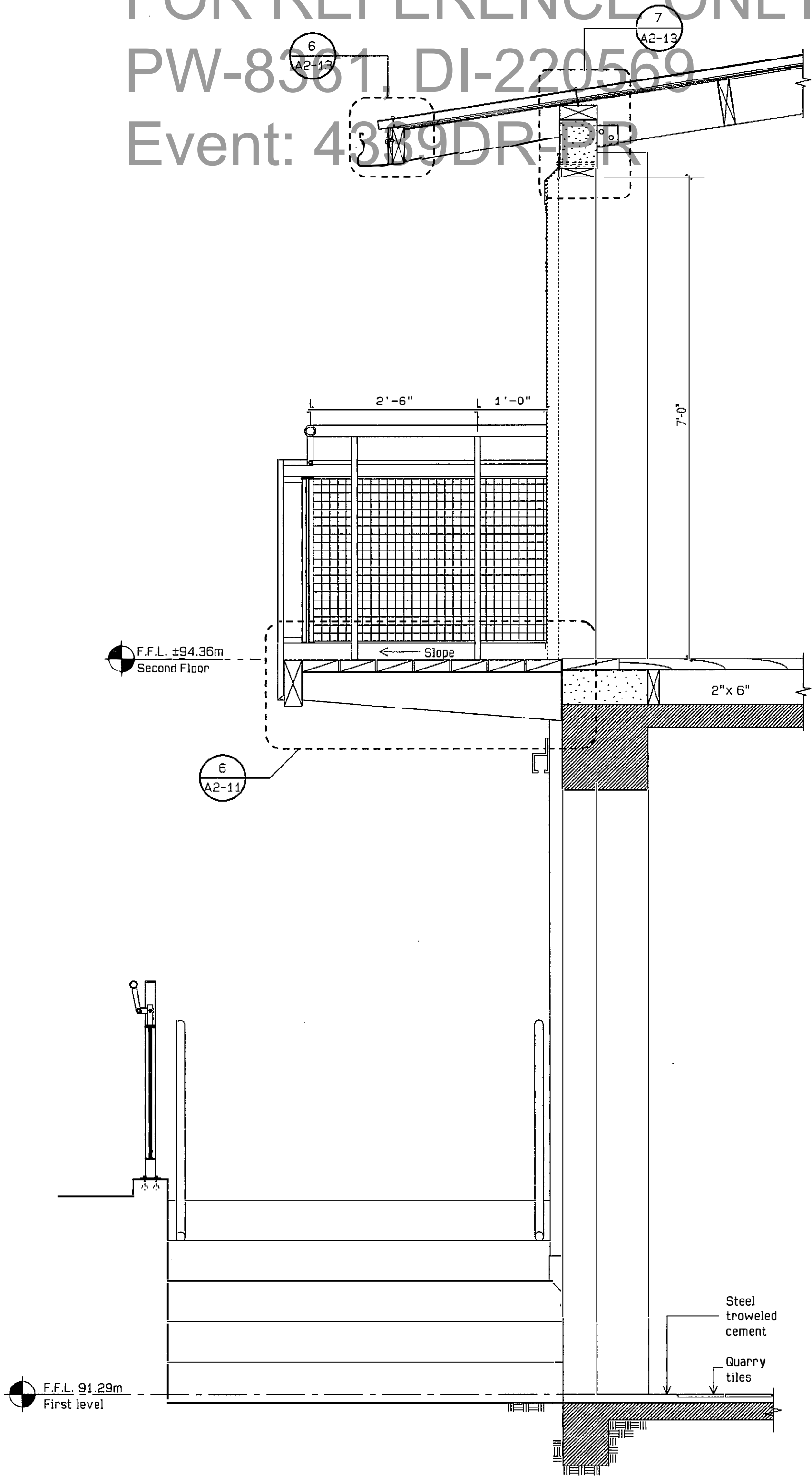
FOR REFERENCE ONLY
PW-8361, DI-120569
Event: 4339D R-PR



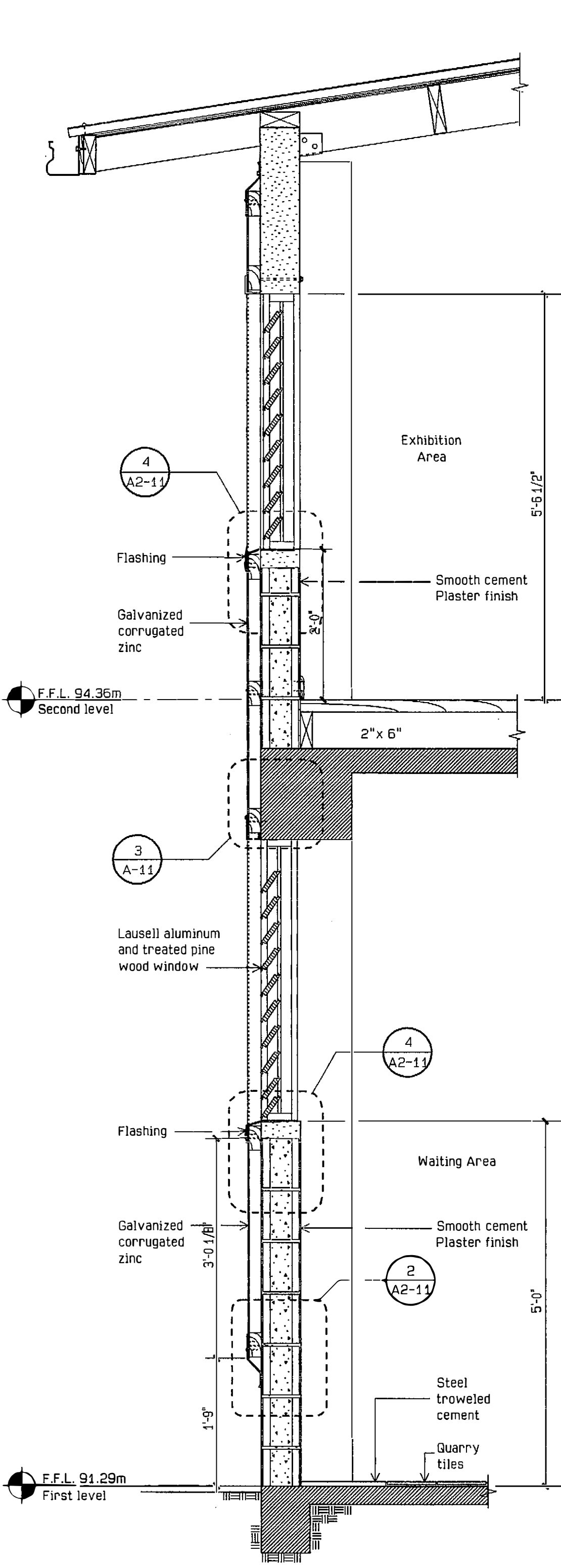
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY JRC DAVIS PAGAN CONSULTING ARCHITECT / SAN JUAN PUERTO RICO	EMBARCADERO LAGO DOS BOCAS UTUADO / ARECIBO PUERTO RICO	DATE	REVISIONS	SCALE:1/4":1'-0"	Sections B, C & D Building #2	A2 09

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	101	101

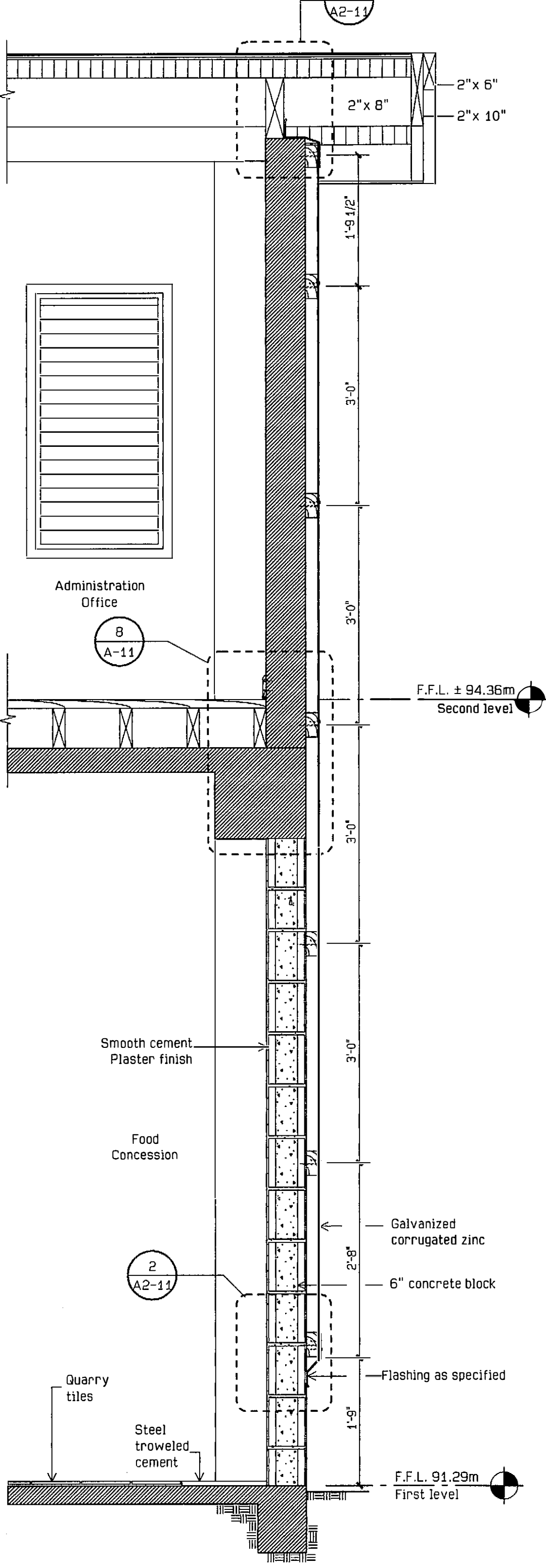
FOR REFERENCE ONLY
PW-8351, DI-220569
Event: 4369DR-PR



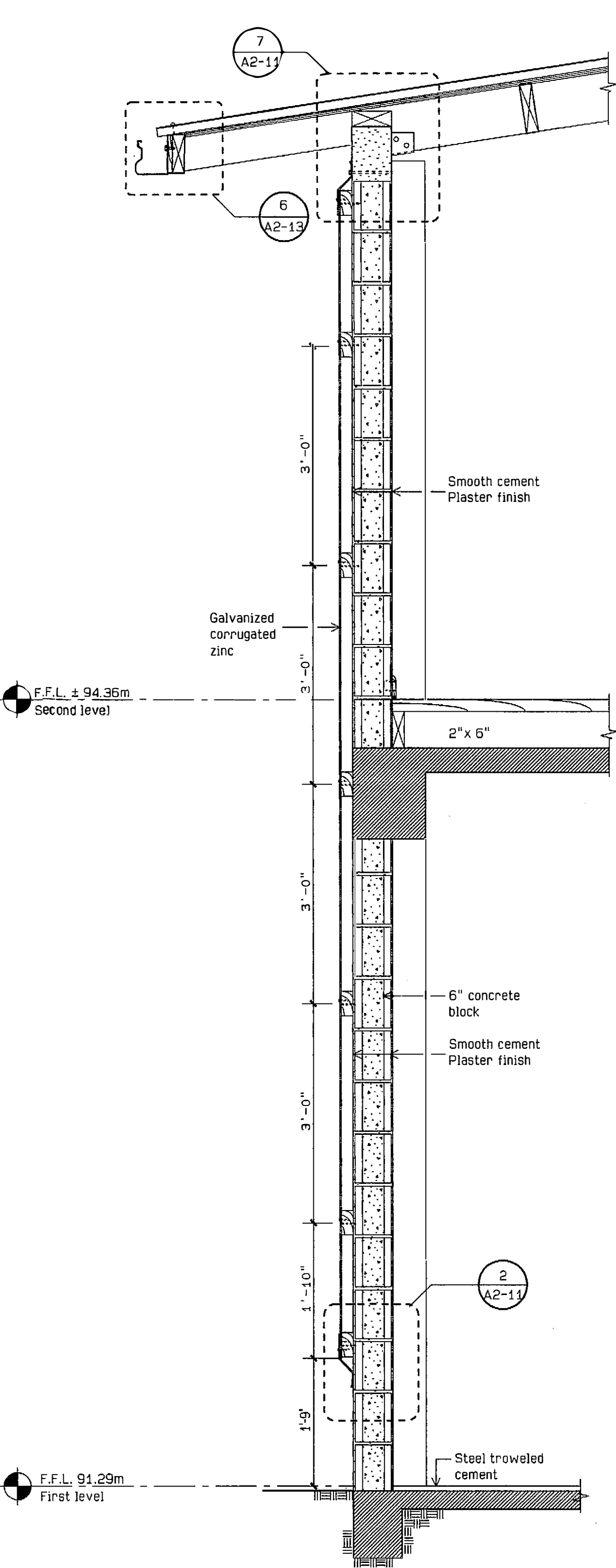
Wall Section "1"
Scale: 3/4"= 1'-0"



Wall Section "2"
Scale: 3/4"= 1'-0"



Wall Section "3"
Scale: 3/4"= 1'-0"



Wall Section "4"
Scale: 3/4"= 1'-0"

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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PUERTO RICO

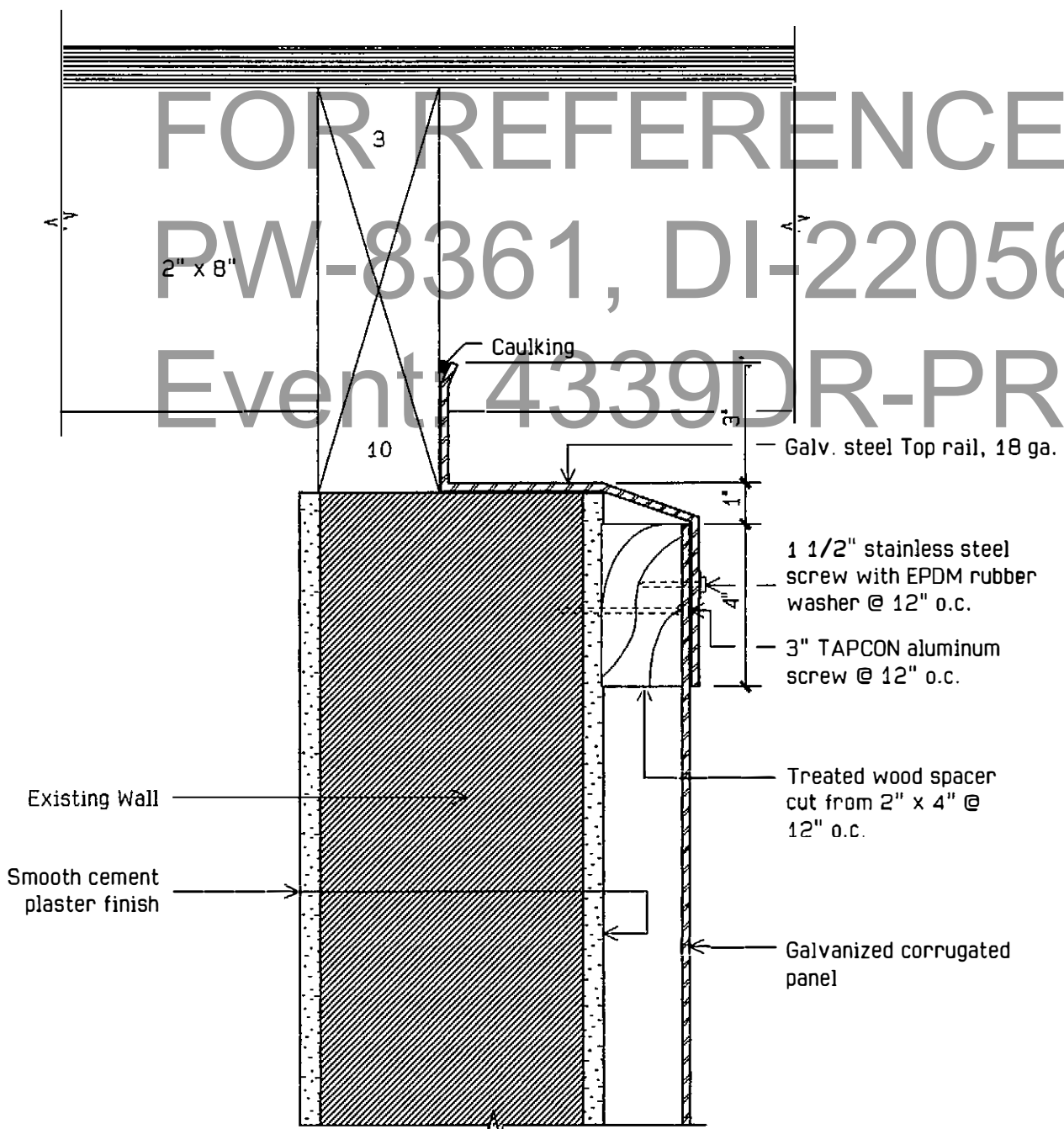
DATE	REVISIONS

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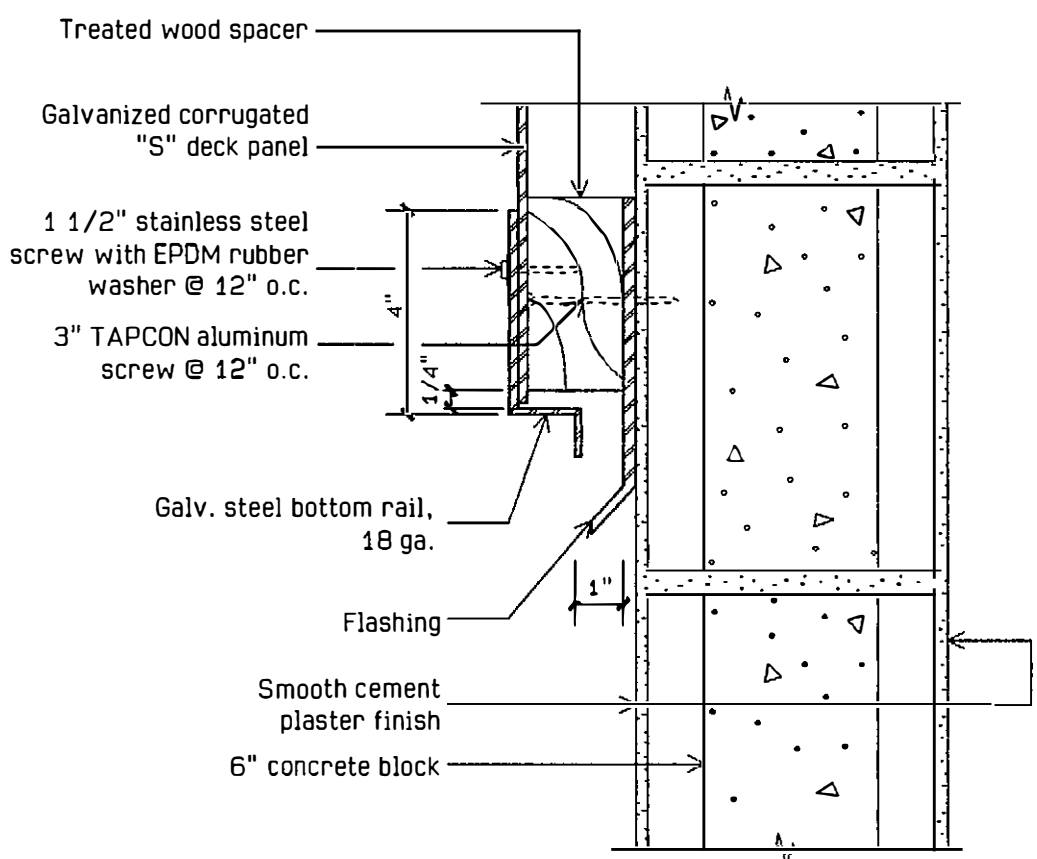
Wall Sections
Building #2

A2
10

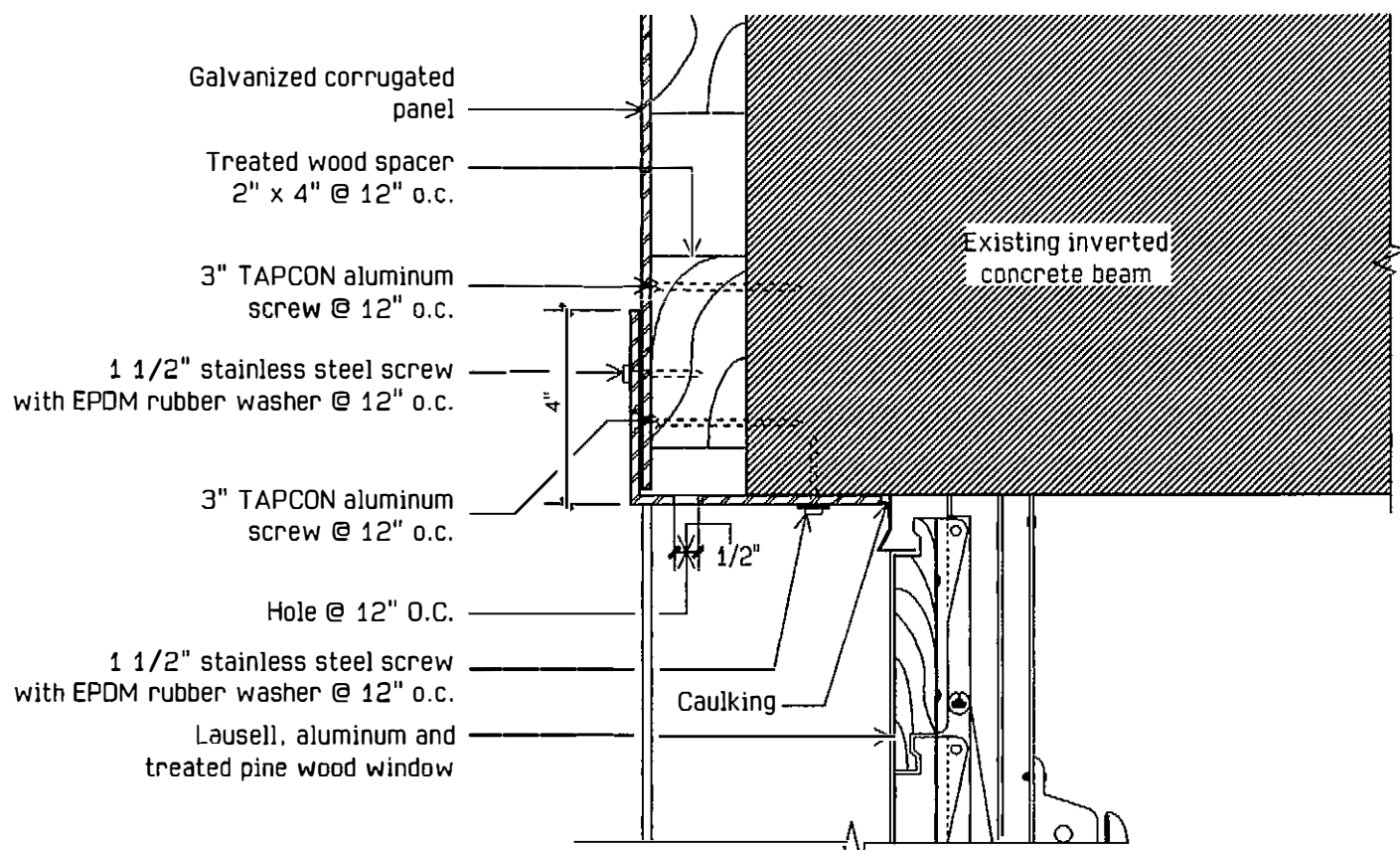
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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	102	181



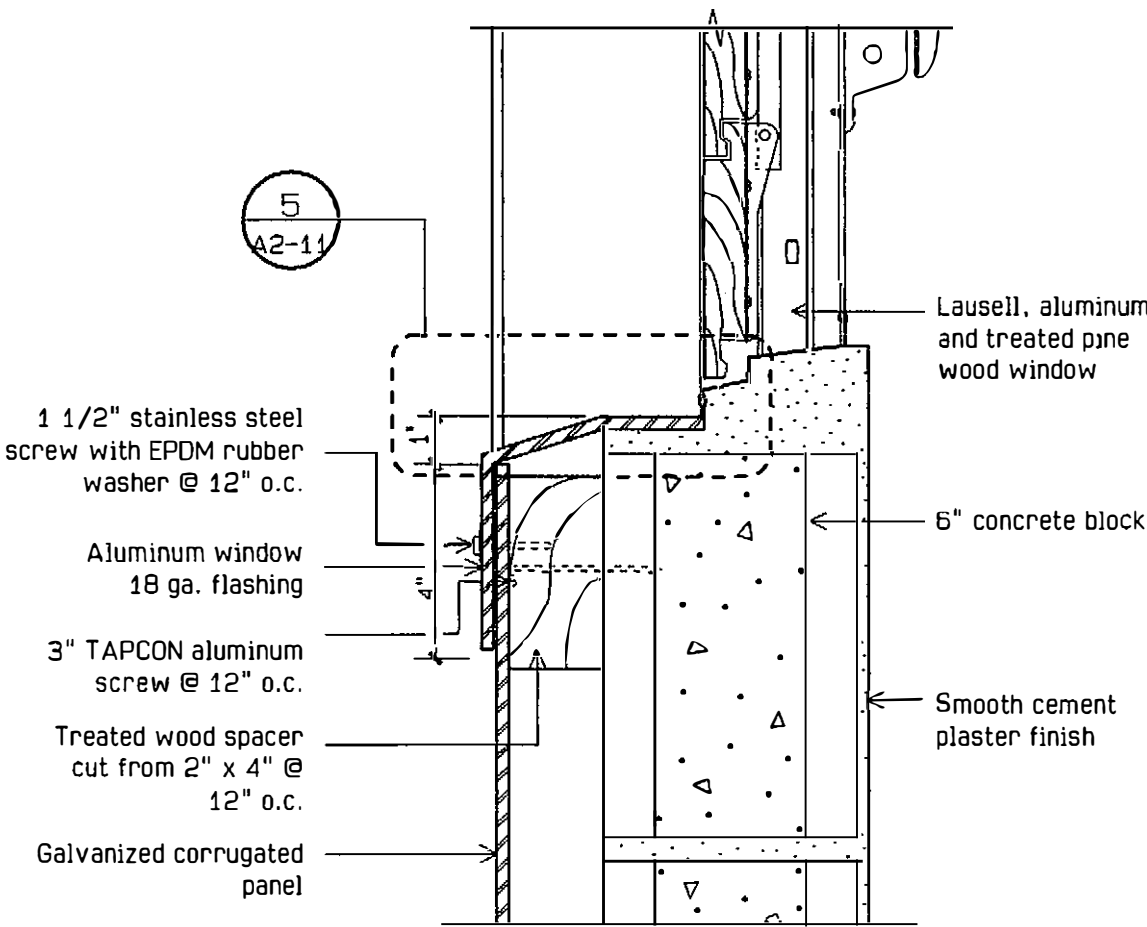
Corrugated Panel's Top Fastening - Detail "1"
Scale: 3"=1'-0"



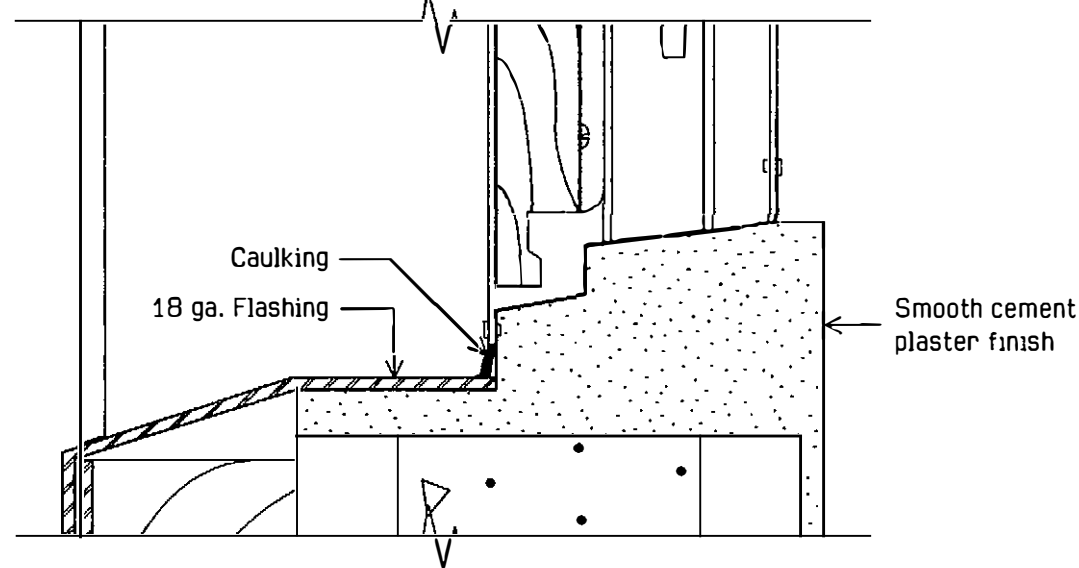
Corrugated Panel's Fastening at Wall Base - Detail "2"
Scale: 3"=1'-0"



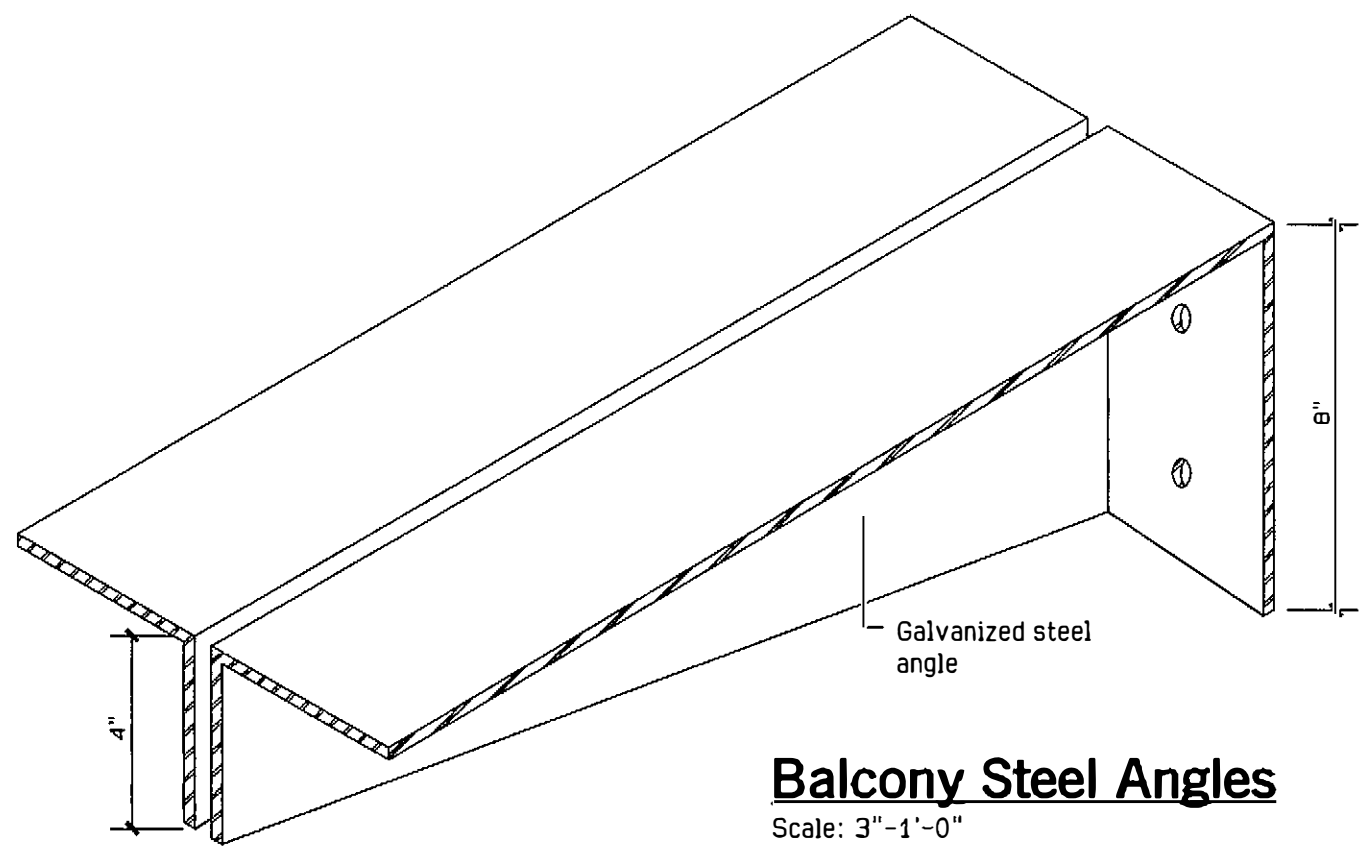
Window Head - Detail "3"
Scale: 3"=1'-0"



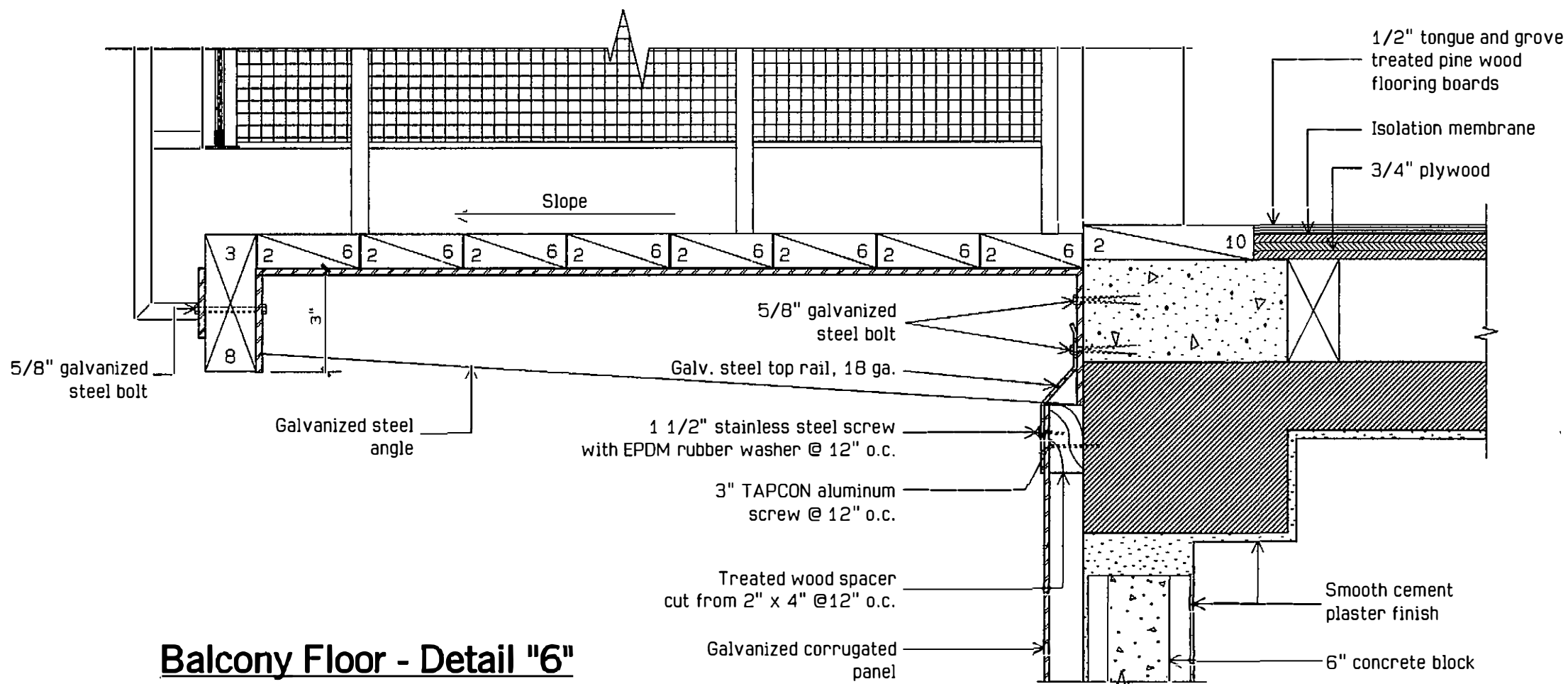
Window Sill - Detail "4"
Scale: 3"=1'-0"



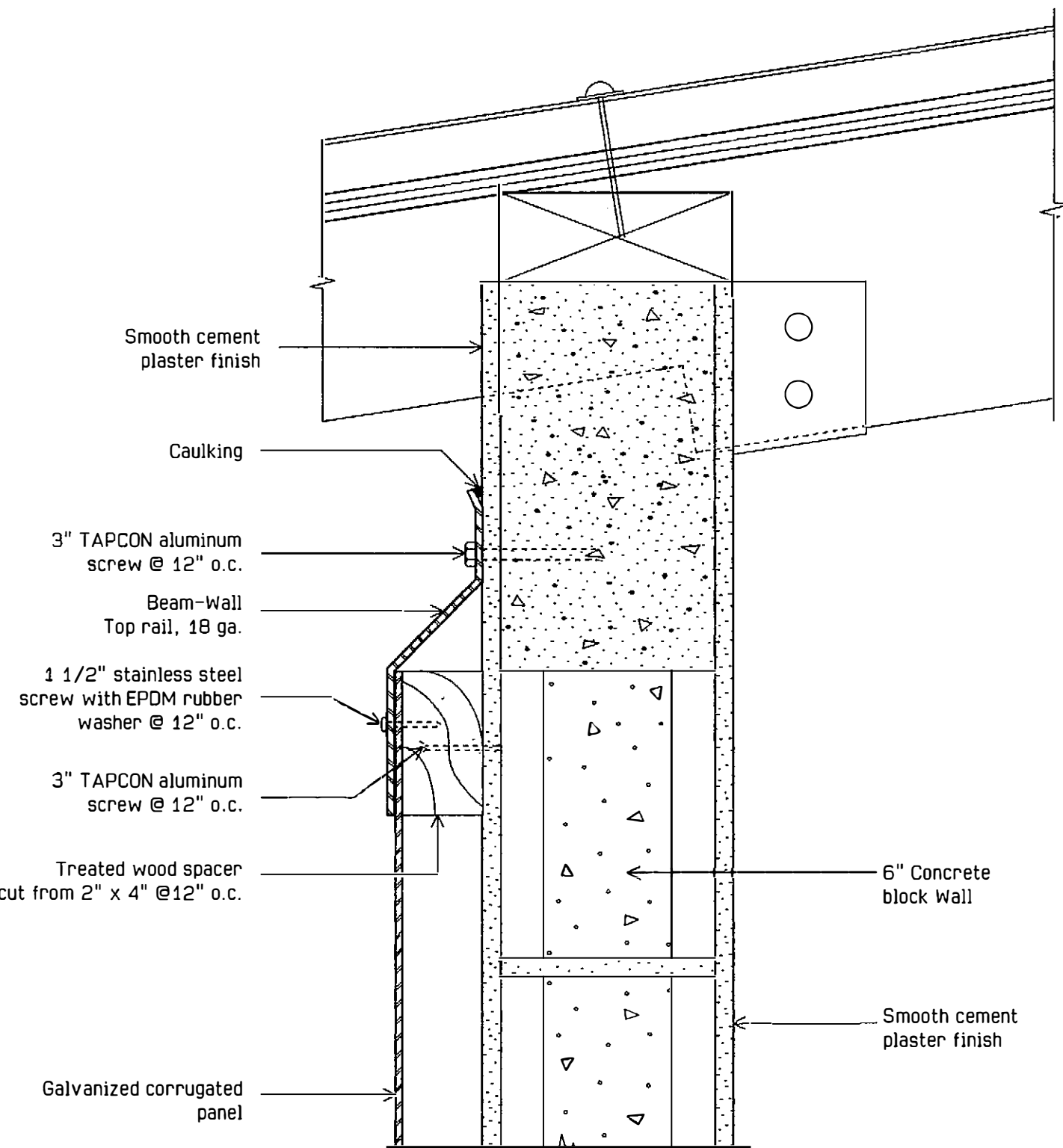
Flashing - Detail "5"
Scale: 6"=1'-0"



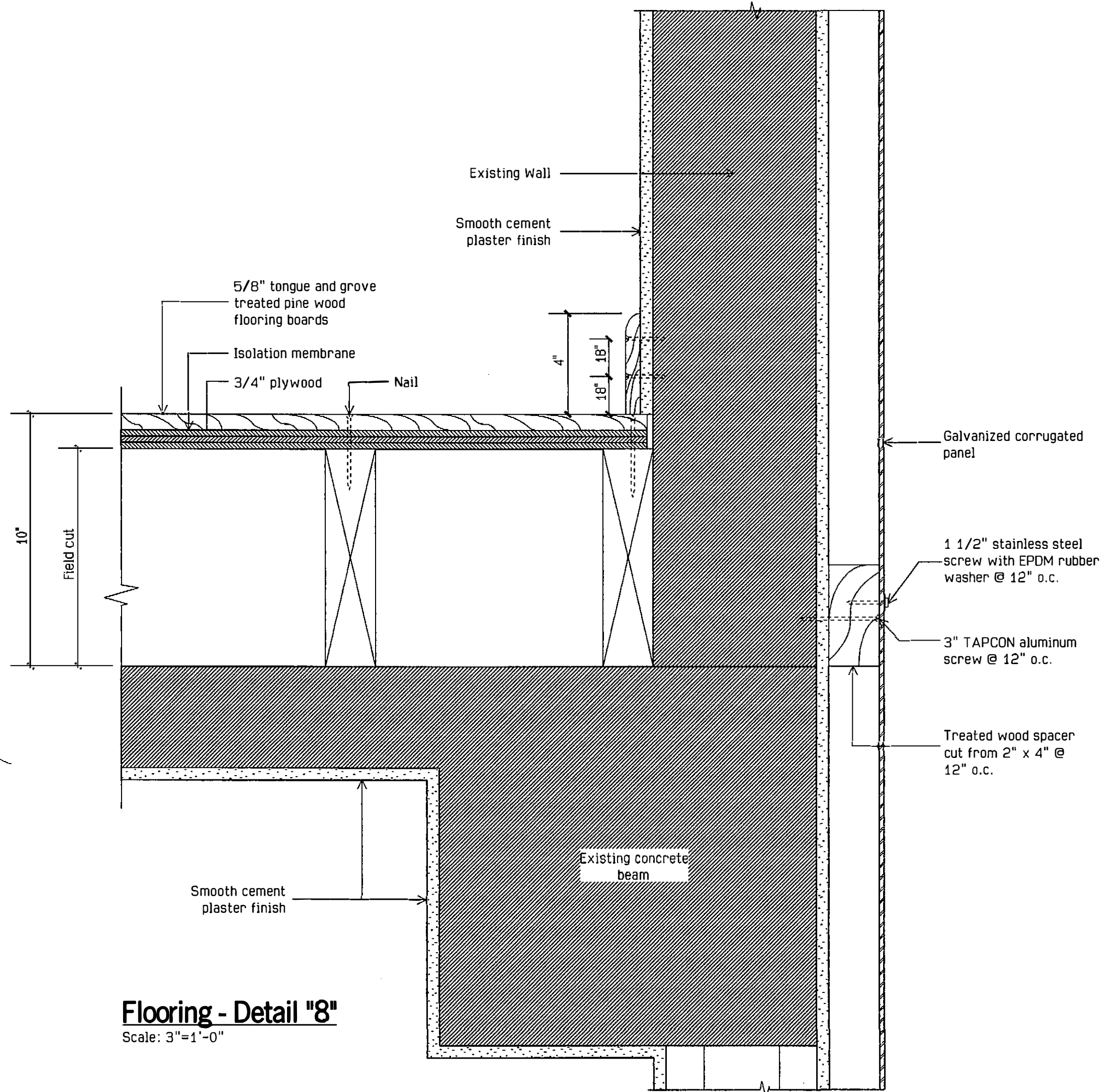
Balcony Steel Angles
Scale: 3"=1'-0"



Balcony Floor - Detail "6"
Scale: 1 1/2"=1'-0"



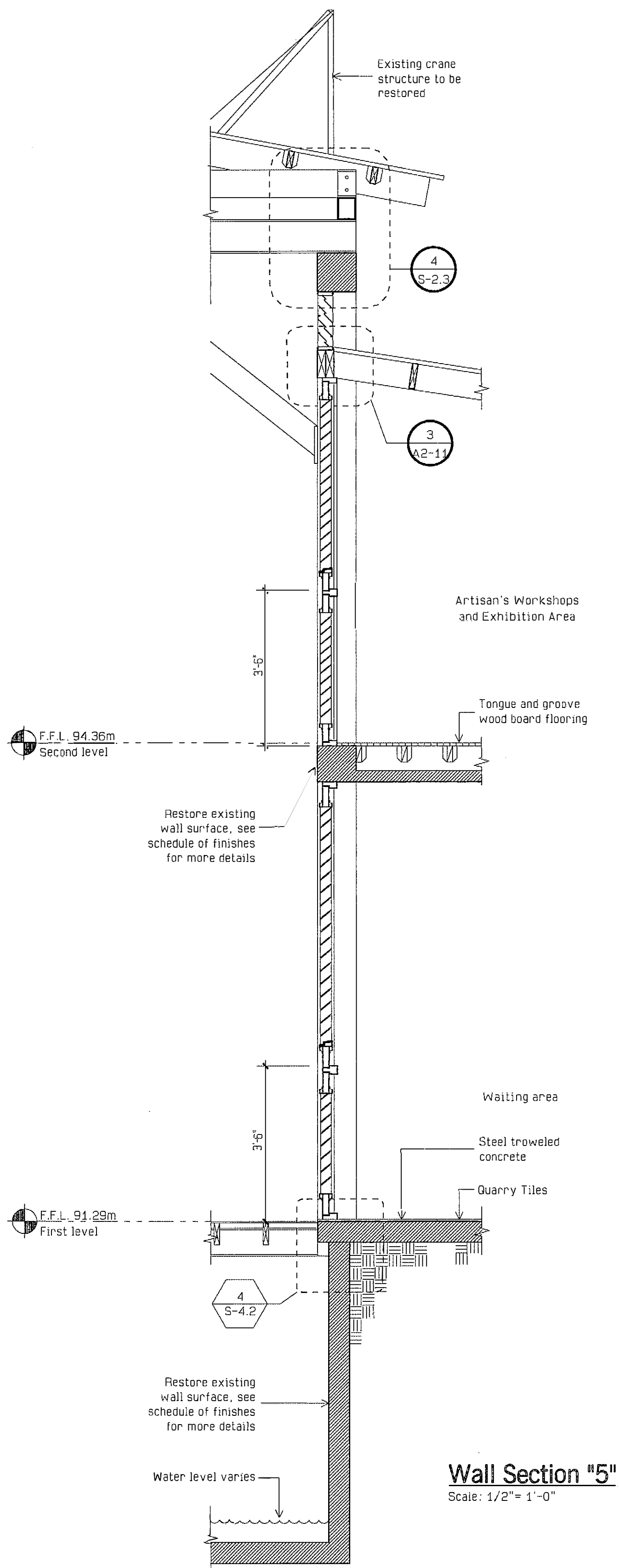
Corrugated Panel's Top Fastening - Detail "7"
Scale: 3"=1'-0"



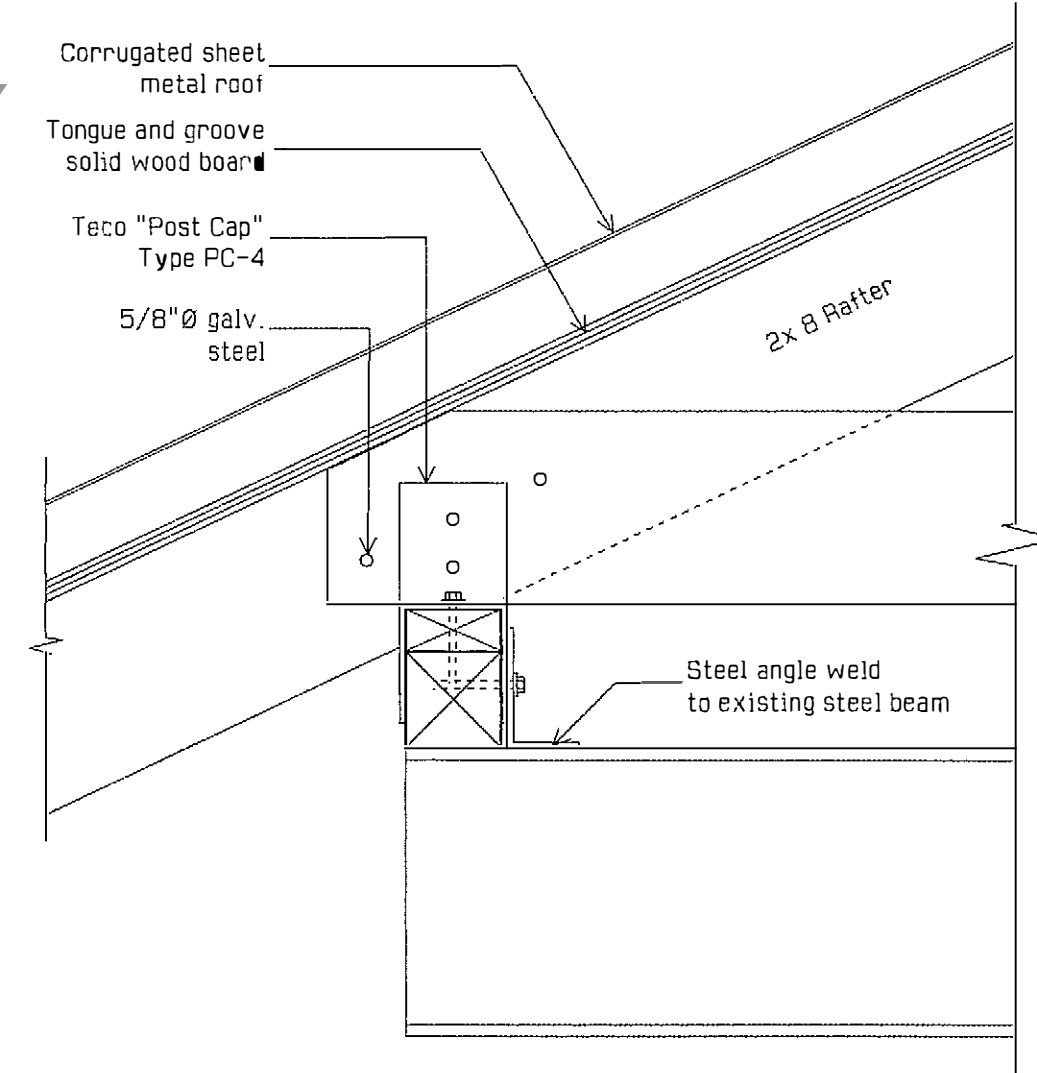
Flooring - Detail "8"
Scale: 3"=1'-0"

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	103	181



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY JRC DAVIS PAGAN CONSULTING ARCHITECT / SAN JUAN PUERTO RICO	EMBARCADERO LAGO DOS BOCAS UTUADO / ARECIBO PUERTO RICO	DATE	REVISIONS	SCALE: As Shown	Wall Section Building #2	A2 12



Screw with EPDM rubber washer

3/4" Tongue and groove roof wood panel

Corrugated sheet metal roof

Rafter 2x8

2x6

2x6

"3x6" Framing angle

2x8

5° Bench back inclination

1/2" Board separation

Welded

4x4 Galv. square steel plate

Welded

4x 10x 1/4" Galv. steel plate

Screws Anchored

Technical drawing of a Rafter/Joist Connection - Detail "9". The drawing shows a cross-section of a rafter/joist connection. A central vertical member is labeled "3". It is connected to a horizontal member labeled "1/2". The horizontal member is supported by a "Steel beam hanger". The connection is secured with "galv. steel nails" and "2x6 wood planks". Dimensions are indicated: a vertical dimension of "4\"/>

Galvanized corrugated panel

Caulking

3 1/2"

1 1/2" stainless steel screw with EPDM rubber washer @ 12" o.c.

Aluminum flashing

Treated wood spacer cut from 2" x 4" @ 12" o.c.

Caulking

Door wood frame

1/2"

Nail

6" concrete block

Plaster finish

Technical drawing of a door threshold assembly. The drawing includes a cross-section view (top) and a plan view (bottom). The cross-section shows a 6" concrete block with a plaster finish on the interior side. A galvanized corrugated panel is attached to the exterior side of the block. The panel is secured with 1 1/2" stainless steel screws with EPDM rubber washers at 12" o.c. The panel is also secured to the block with 3" Tapcon alum. screws at 12" o.c. The panel is caulked to the block. The plan view shows the door wood frame and the door. The door is 36" high and 36" wide. The threshold is 3 1/2" high. The door is secured with 1 1/2" stainless steel screws with EPDM rubber washers at 12" o.c. The door is also secured with 3" Tapcon alum. screws at 12" o.c. The door is caulked to the frame. The door is secured with 1 1/2" stainless steel screws with EPDM rubber washers at 12" o.c. The door is also secured with 3" Tapcon alum. screws at 12" o.c. The door is caulked to the frame. The door is secured with 1 1/2" stainless steel screws with EPDM rubber washers at 12" o.c. The door is also secured with 3" Tapcon alum. screws at 12" o.c. The door is caulked to the frame.

Labels and dimensions in the drawing include:

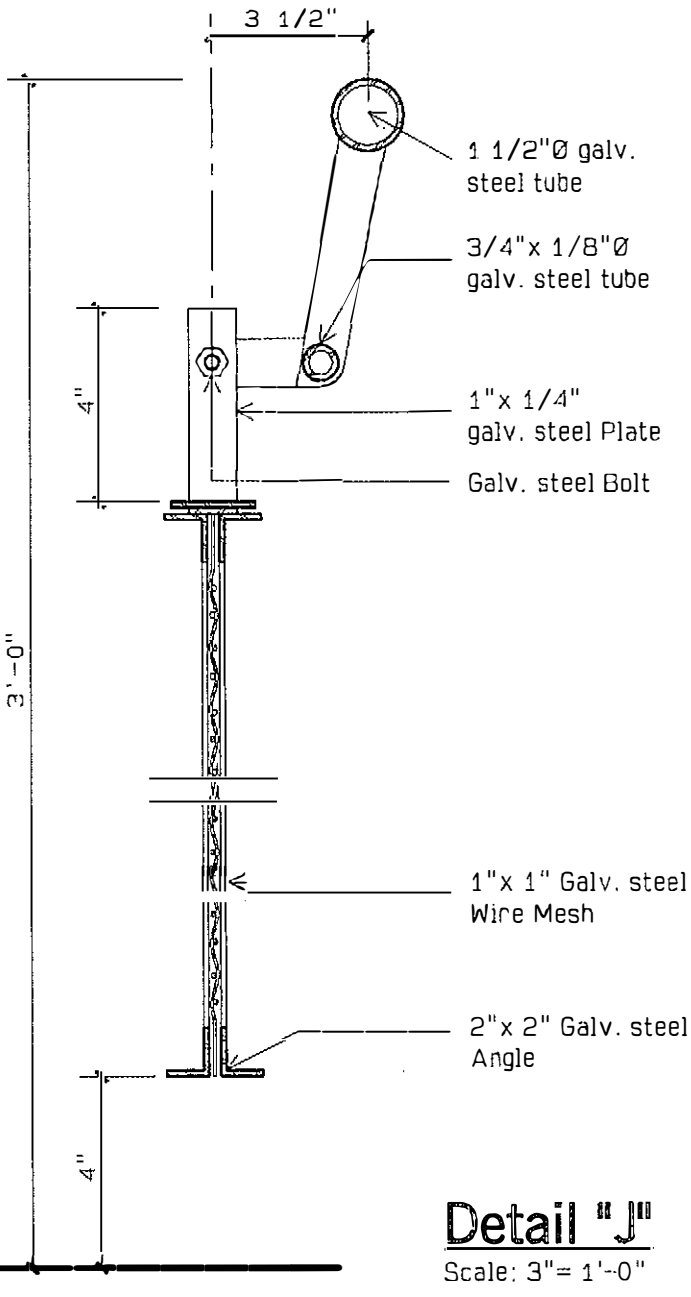
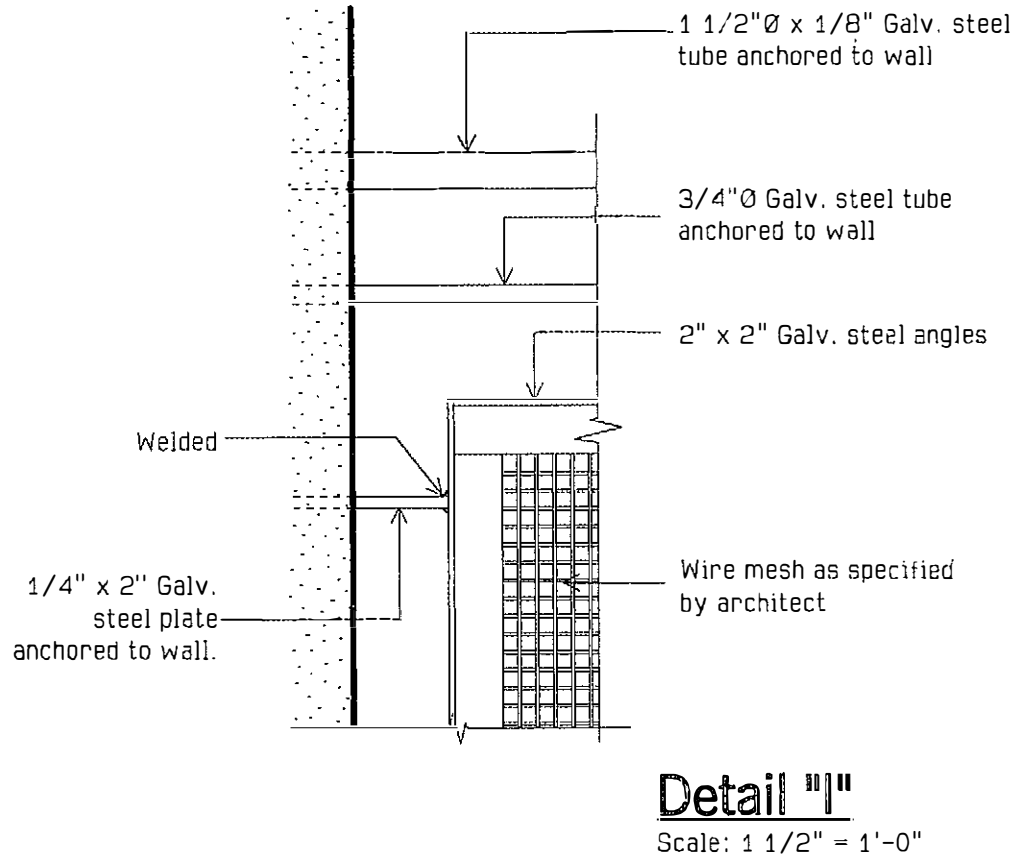
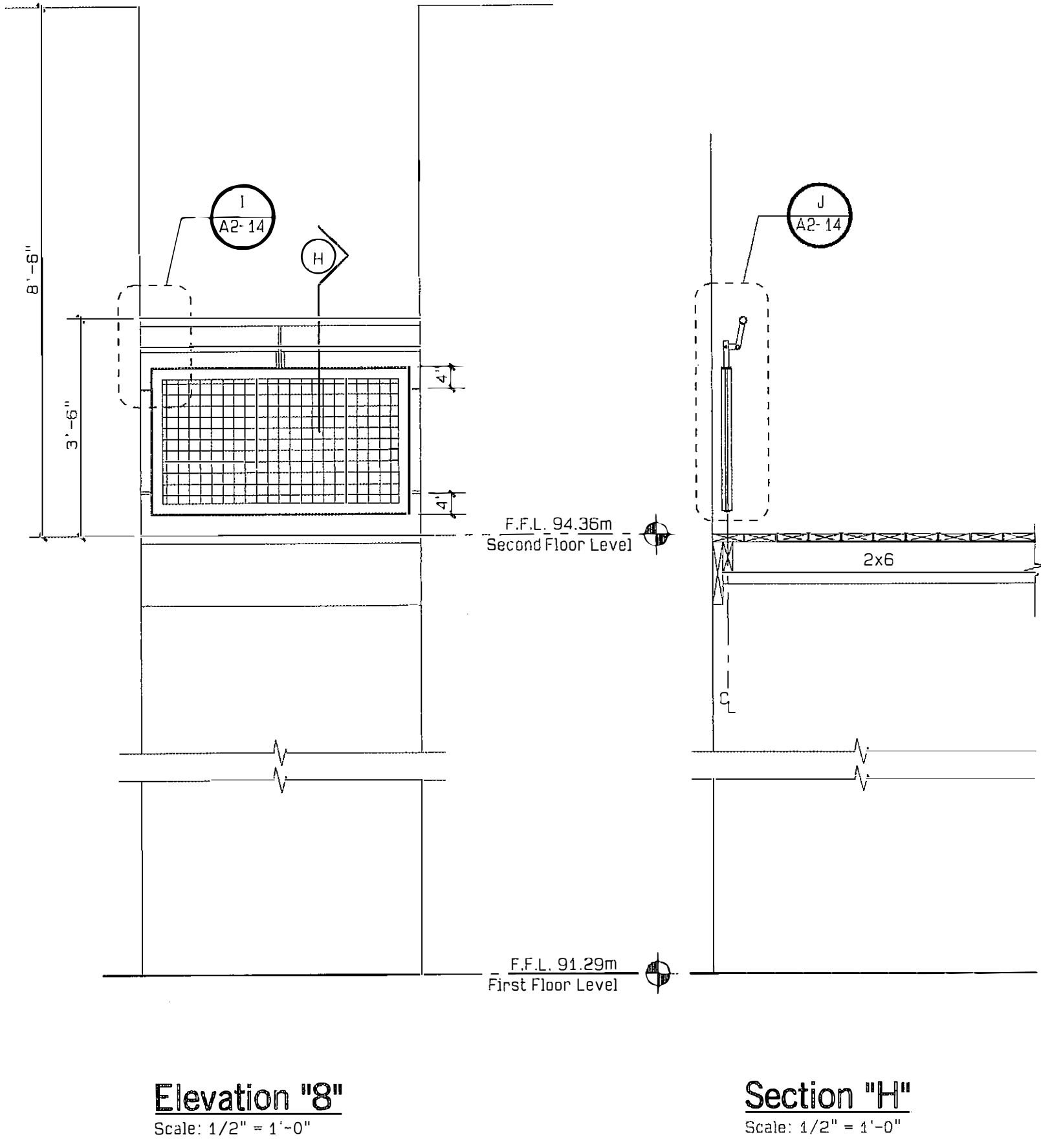
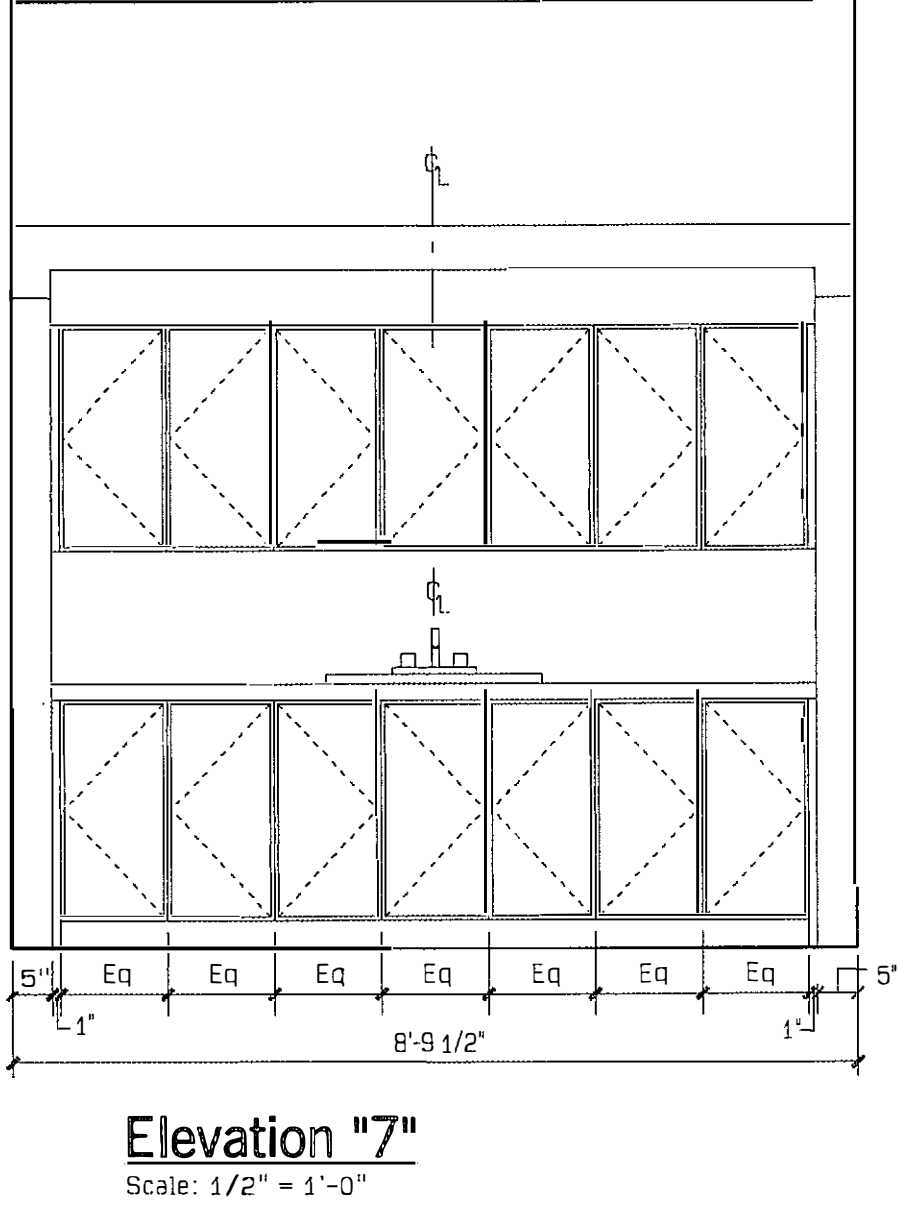
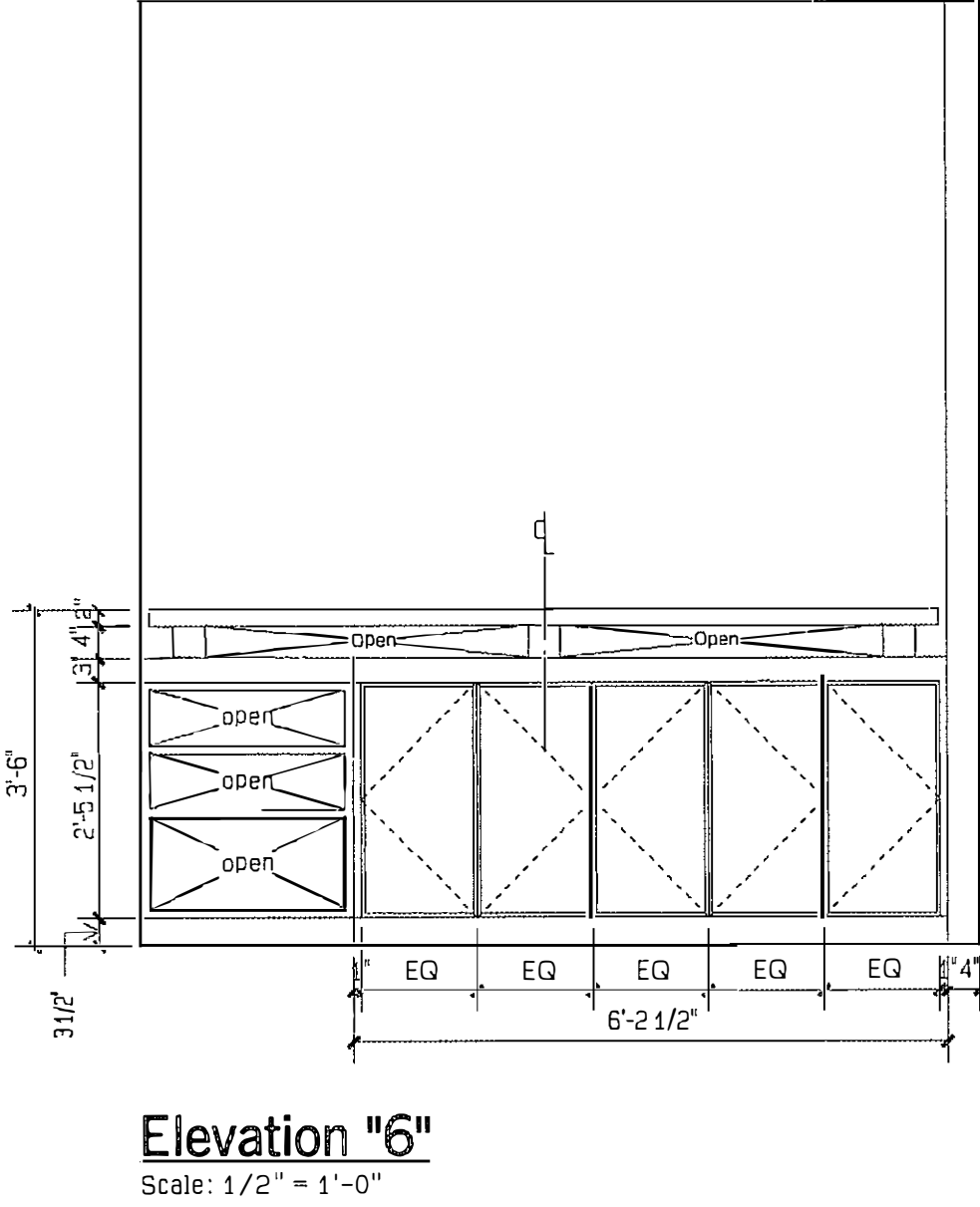
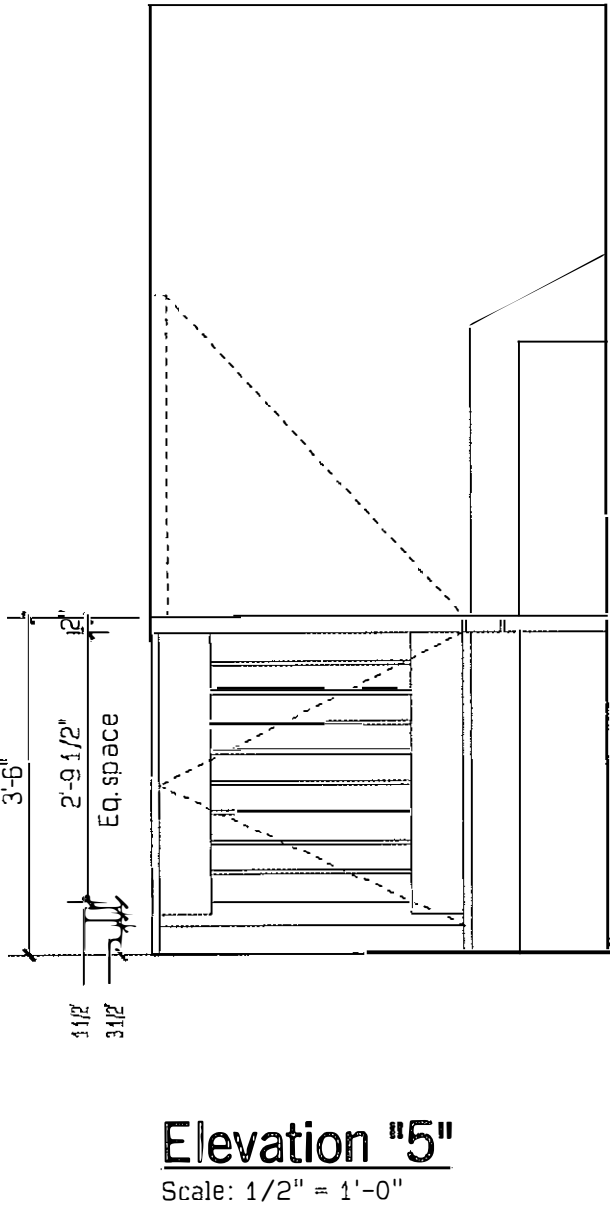
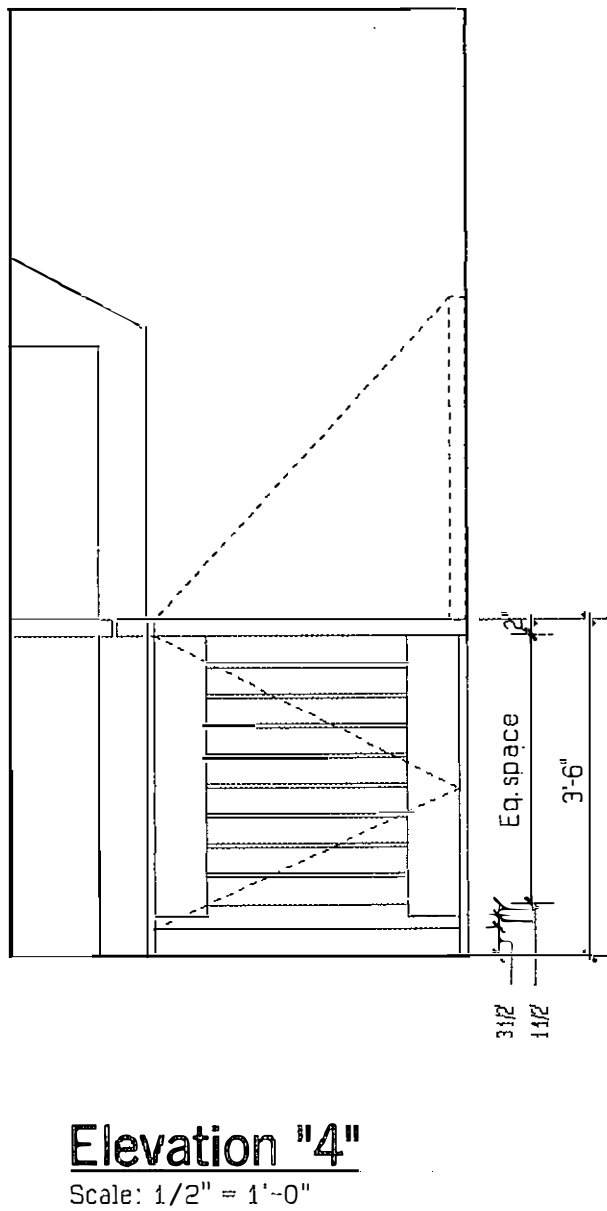
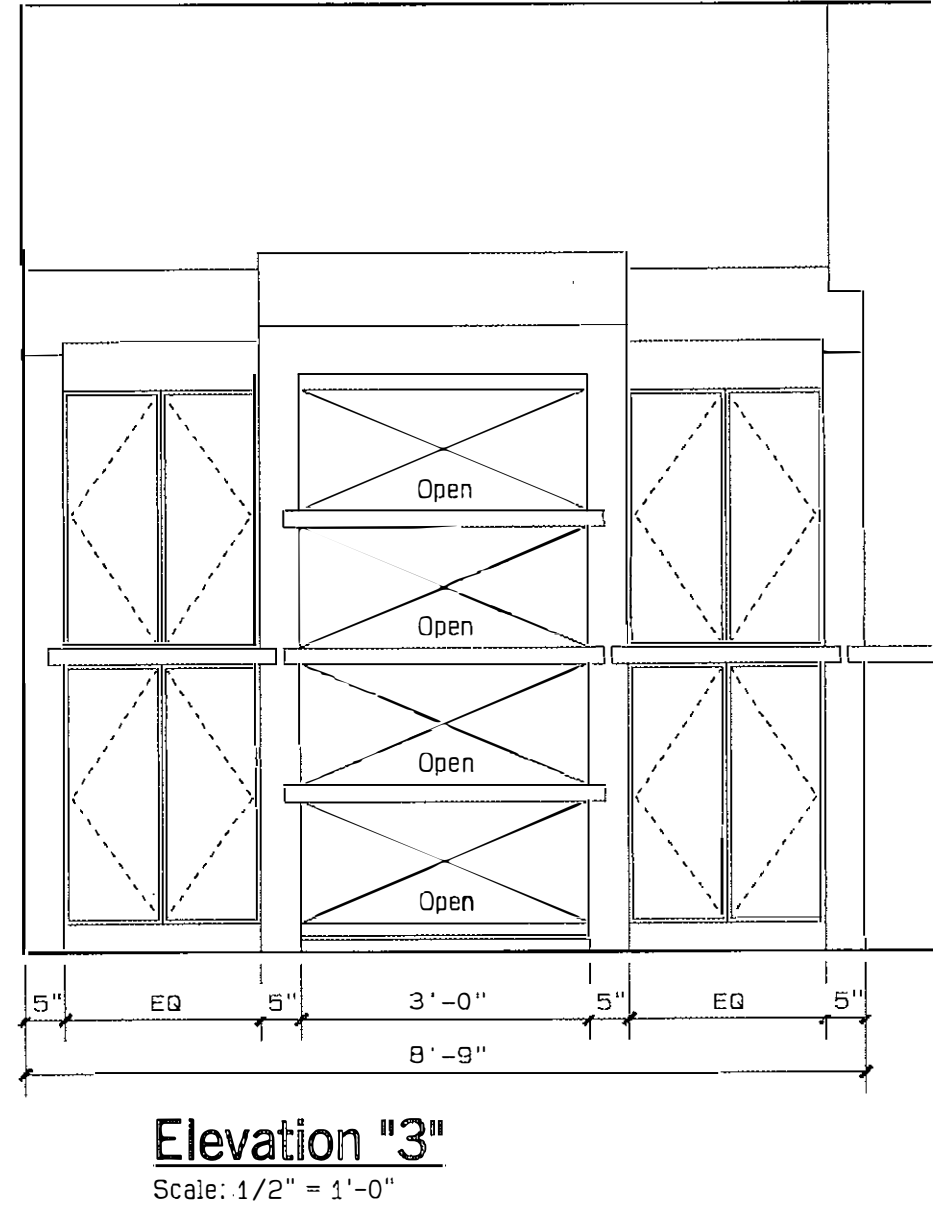
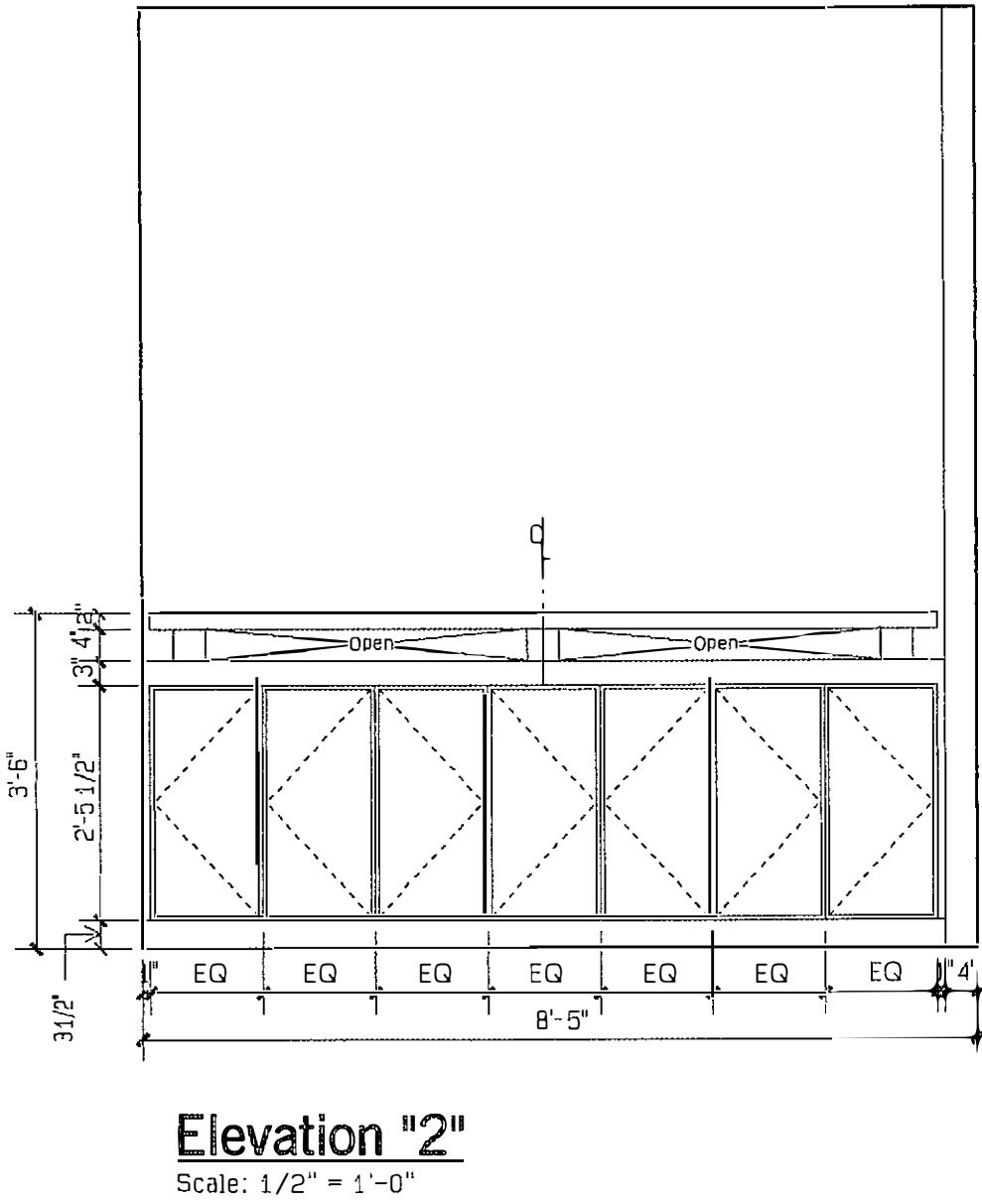
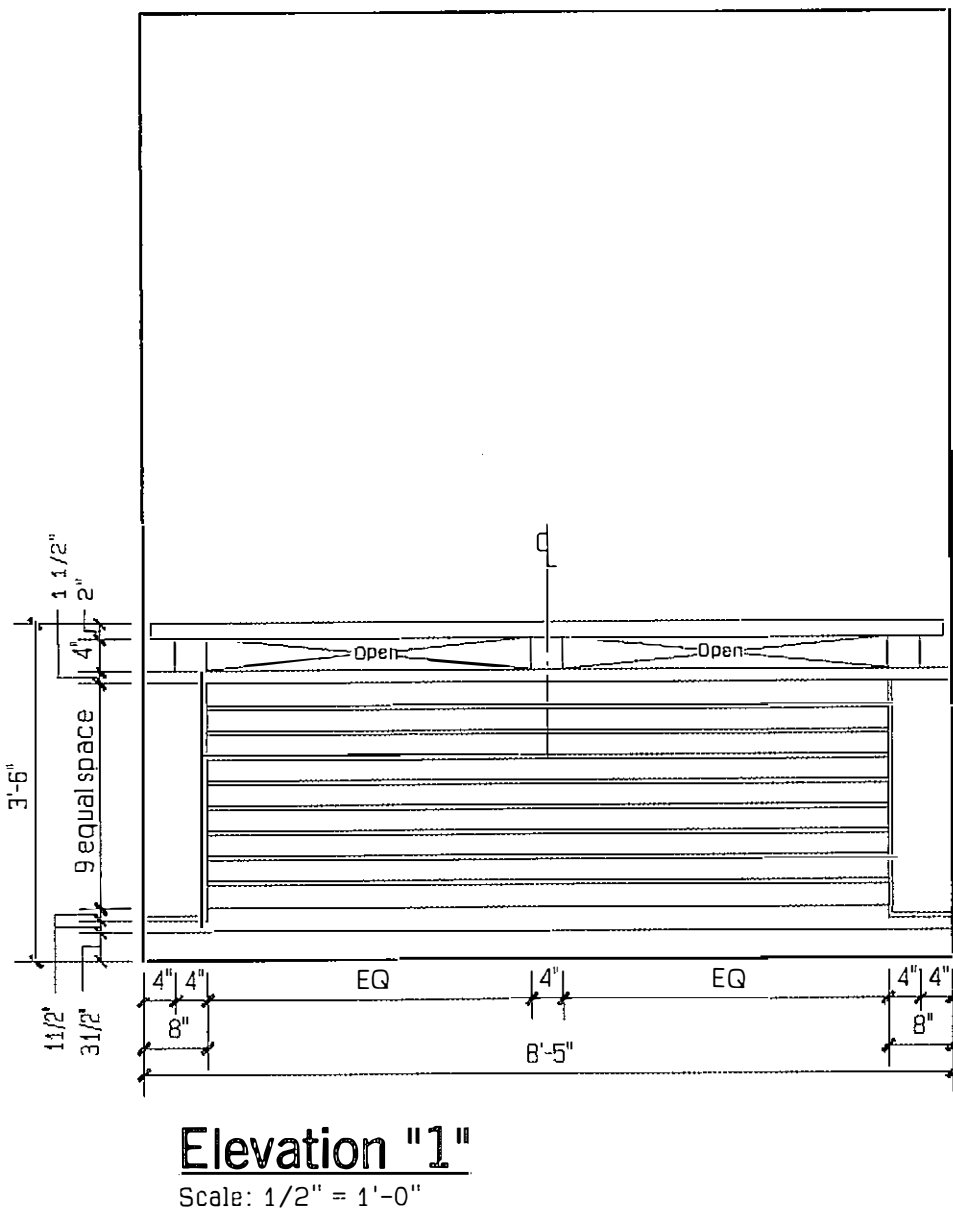
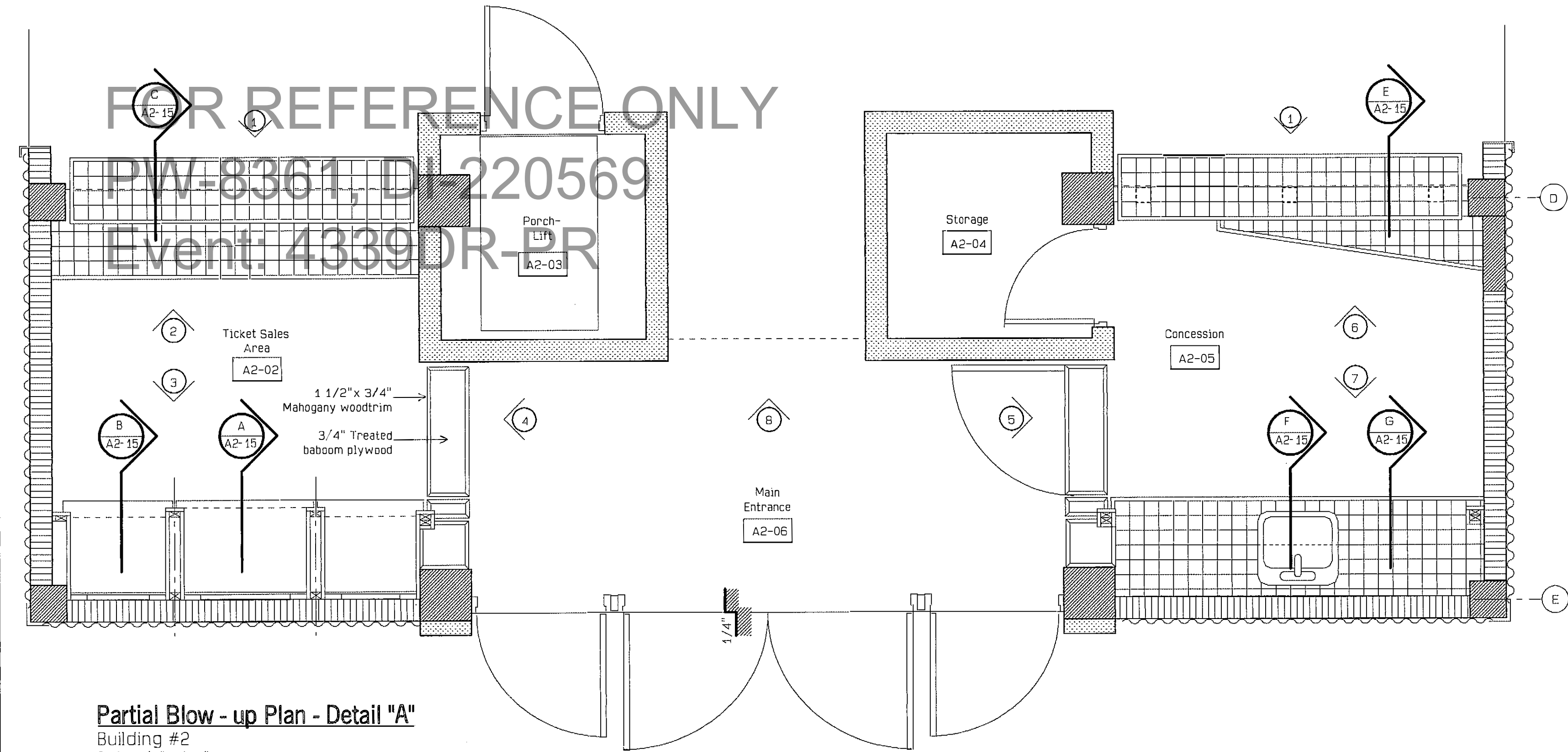
- Galvanized corrugated panel
- Caulking
- 3 1/2"
- 1 1/2" stainless steel screw with EPDM rubber washer @ 12" o.c.
- Treated wood spacer cut from 2" x 4" @ 12" o.c.
- 3" Tapcon alum. screw @ 12" o.c.
- Caulking
- Door wood frame
- 6" concrete block
- Plaster finish
- Nail

Technical drawing of a wall section showing the connection between an existing concrete column and a new wall assembly. The drawing includes the following labels and dimensions:

- 3" Tabcon alum. screw @ 12" o.c.
- Treated wood spacer cut from 2" x 6" @ 12" o.c.
- 1 1/2" stainless steel screw with EPDM rubber washer @ 12" o.c.
- 6"
- Galvanized corrugated panel
- Caulking
- Galv. steel corner rail, 16 ga.
- to
- Treated wood spacer cut from 2" x 4" @ 12" o.c.
- Caulking
- Existing Concrete Column
- Plaster finish
- 6" concrete block

A2	13
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FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	105	161



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
 JRC DAVIS PAGAN
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EMBARCADERO LAGO DOS BOCAS
 UTUADO / ARECIBO
 PUERTO RICO

DATE	REVISIONS

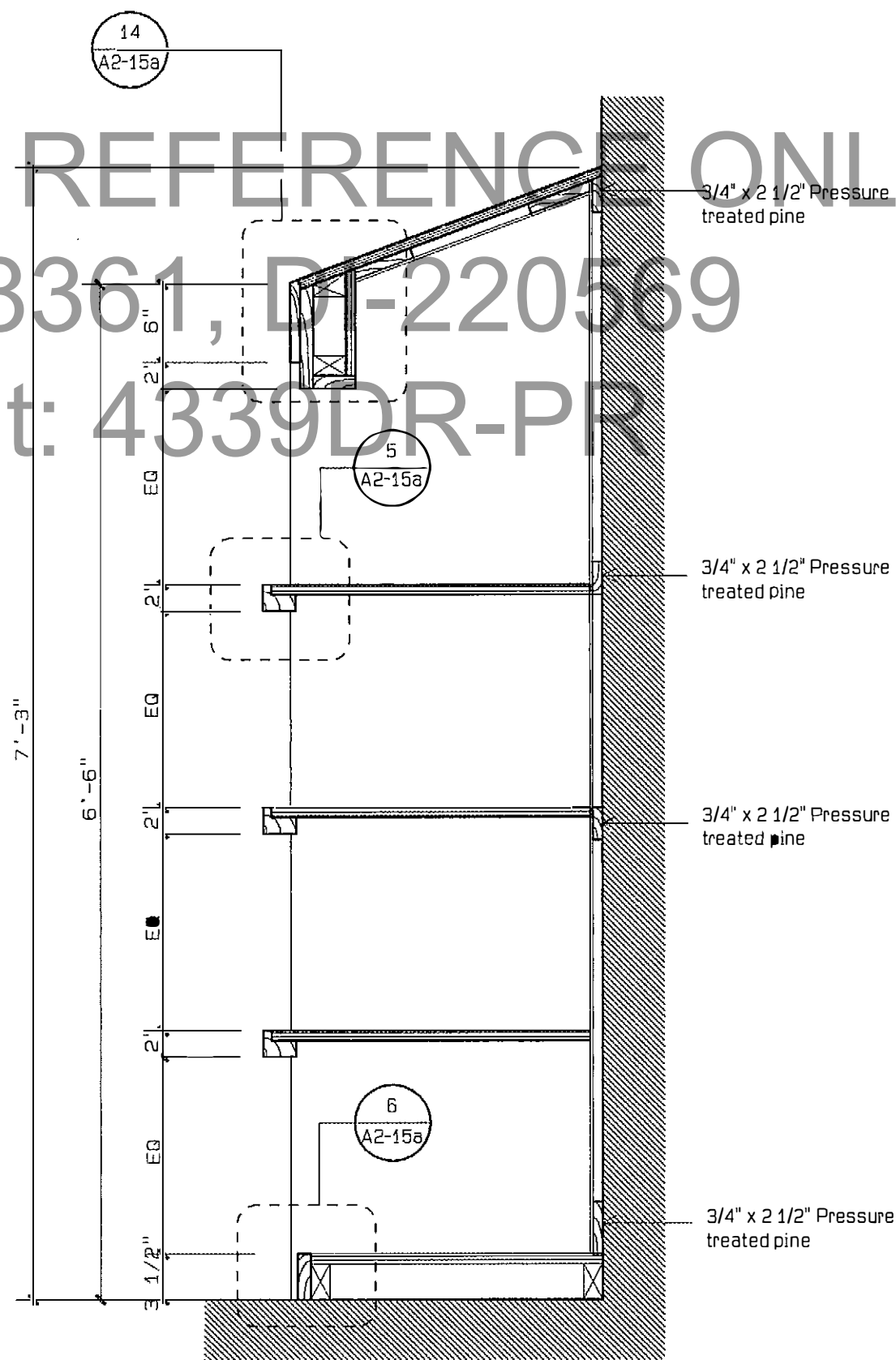
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Plan and Elevations
 Concession and Ticket Sale Area
 Building #2

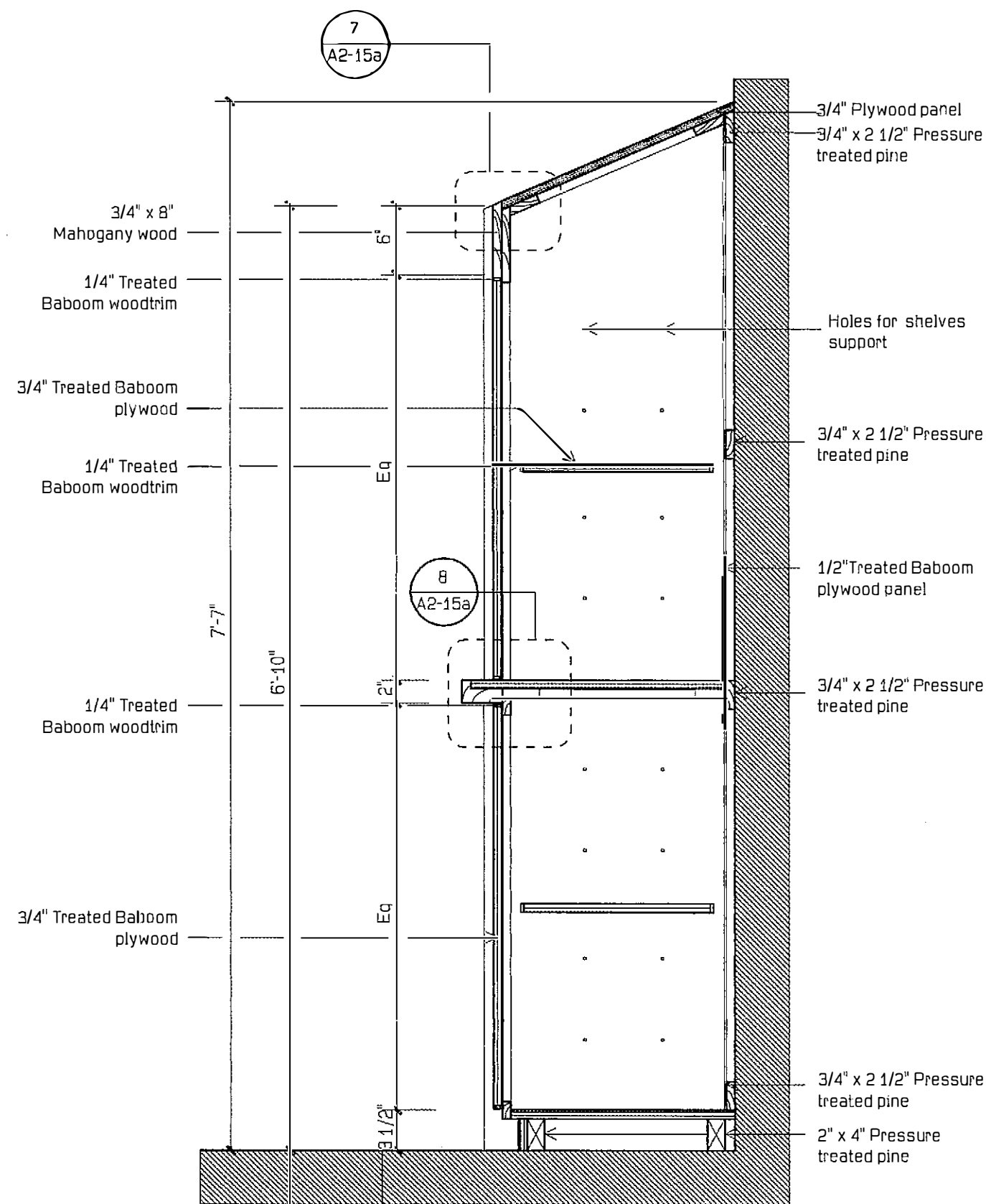
A2
 14

FOR REFERENCE ONLY
PW-8361, D-220569
Event: 4339DR-PR

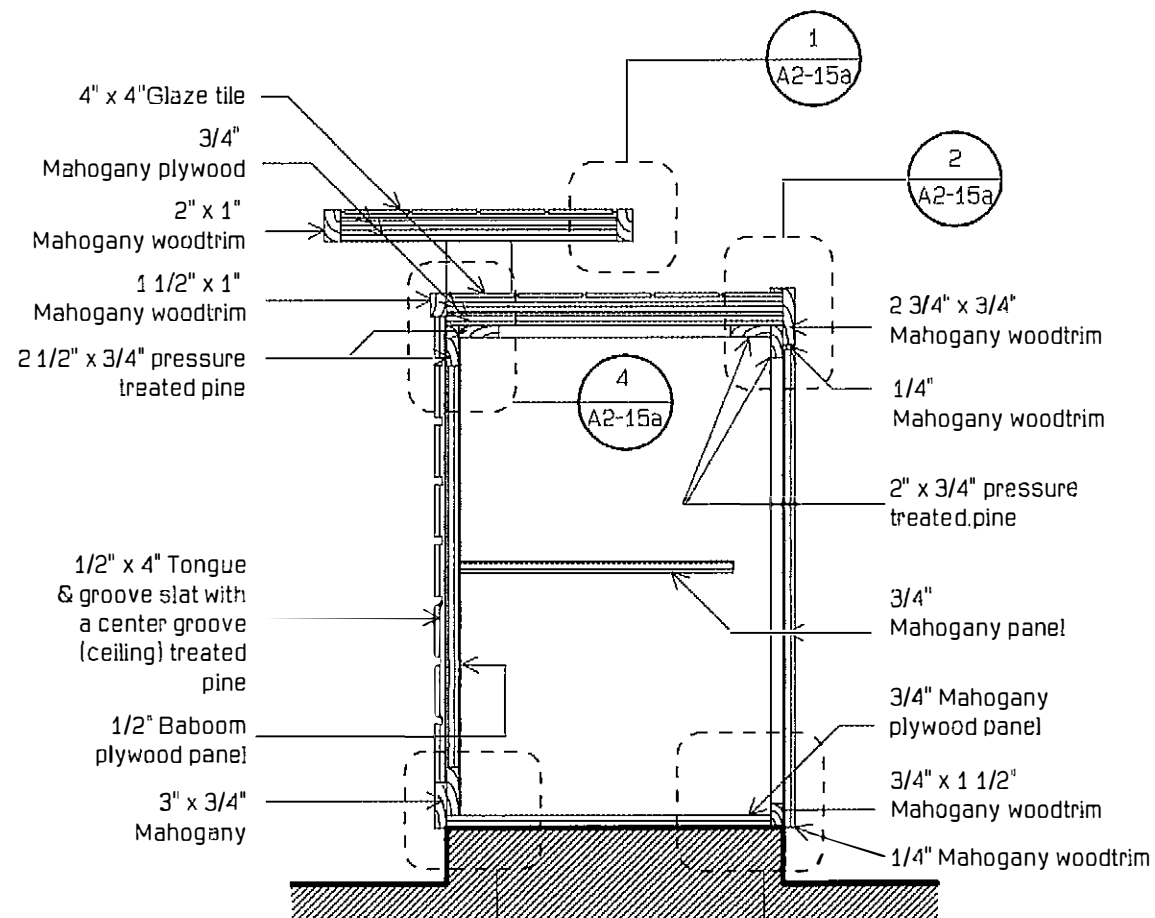
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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	106	121



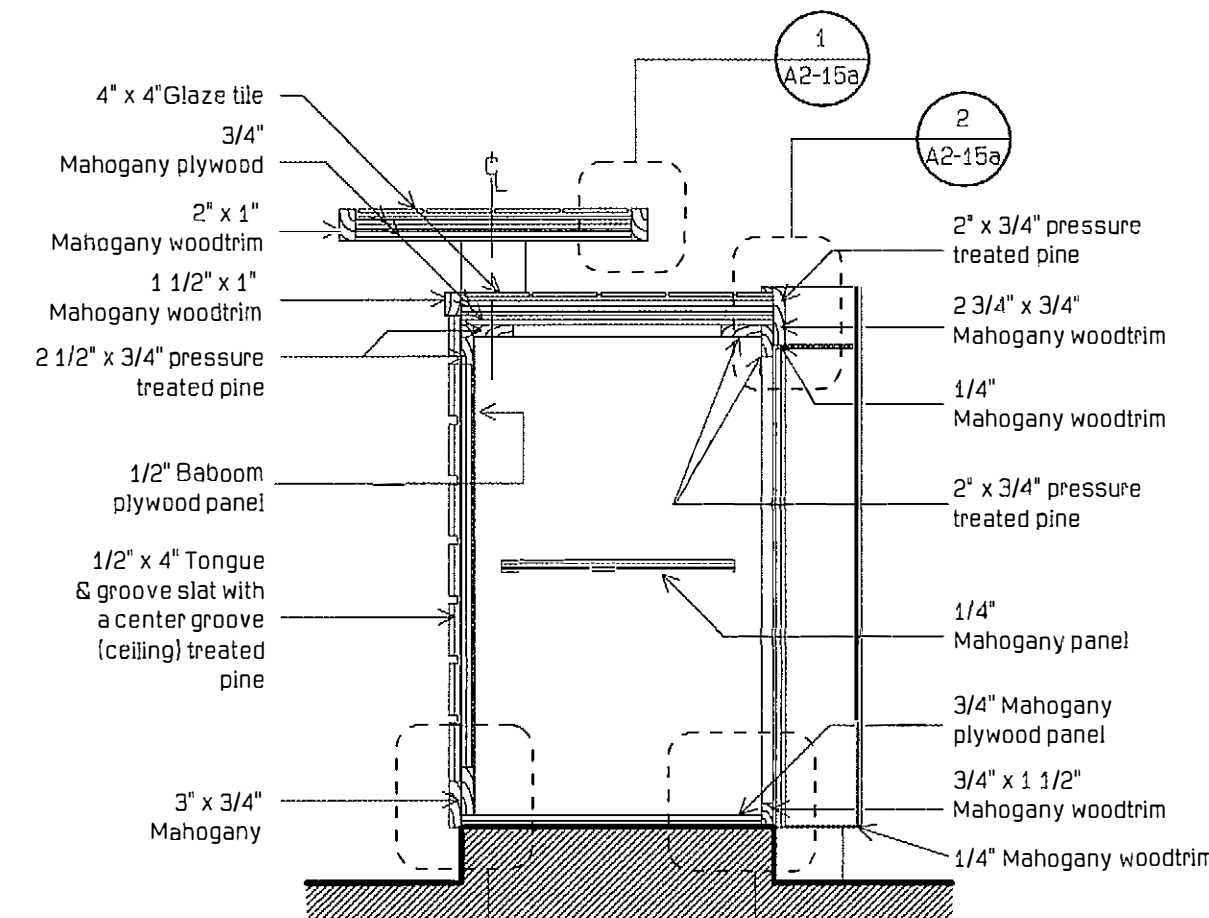
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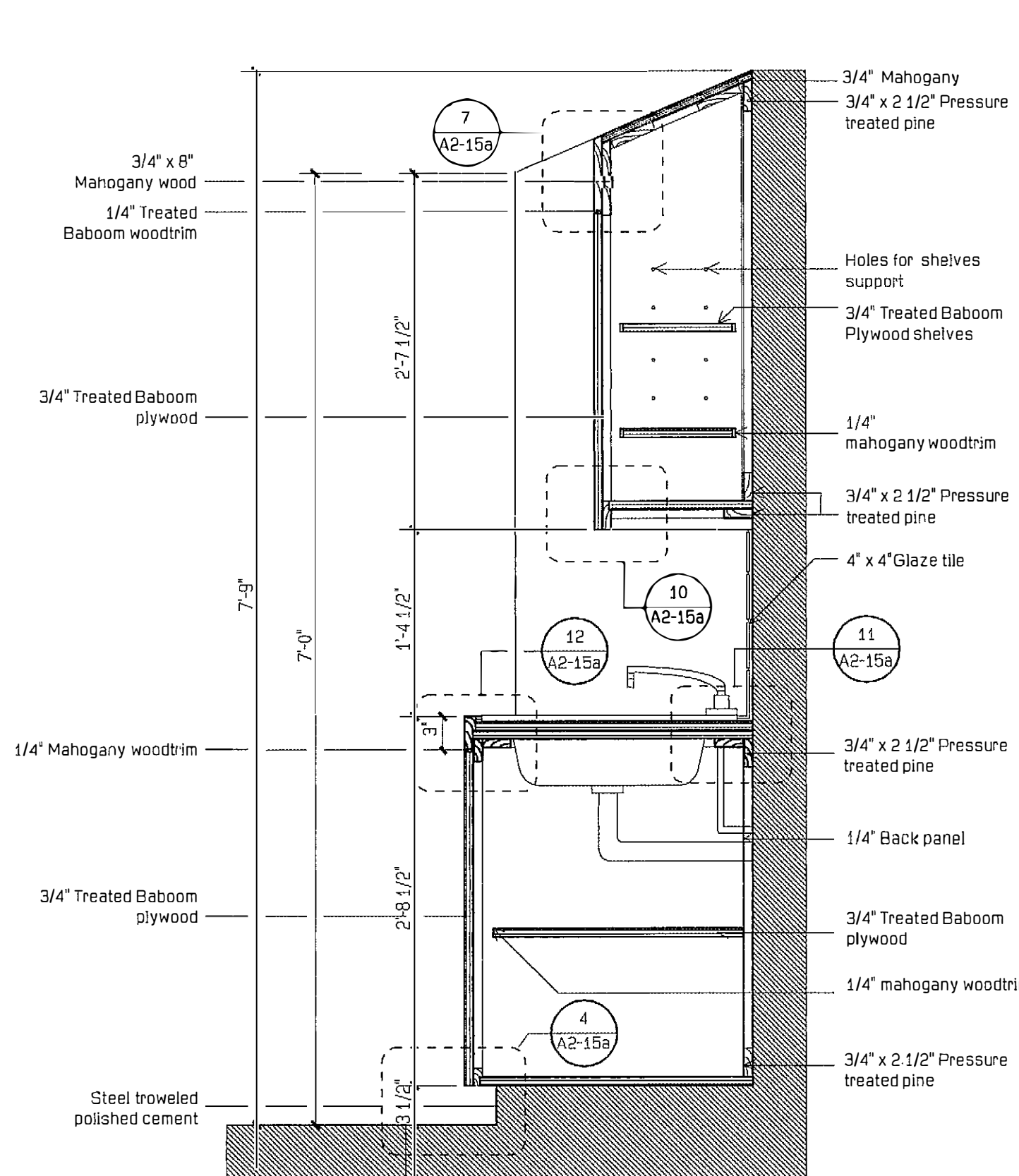
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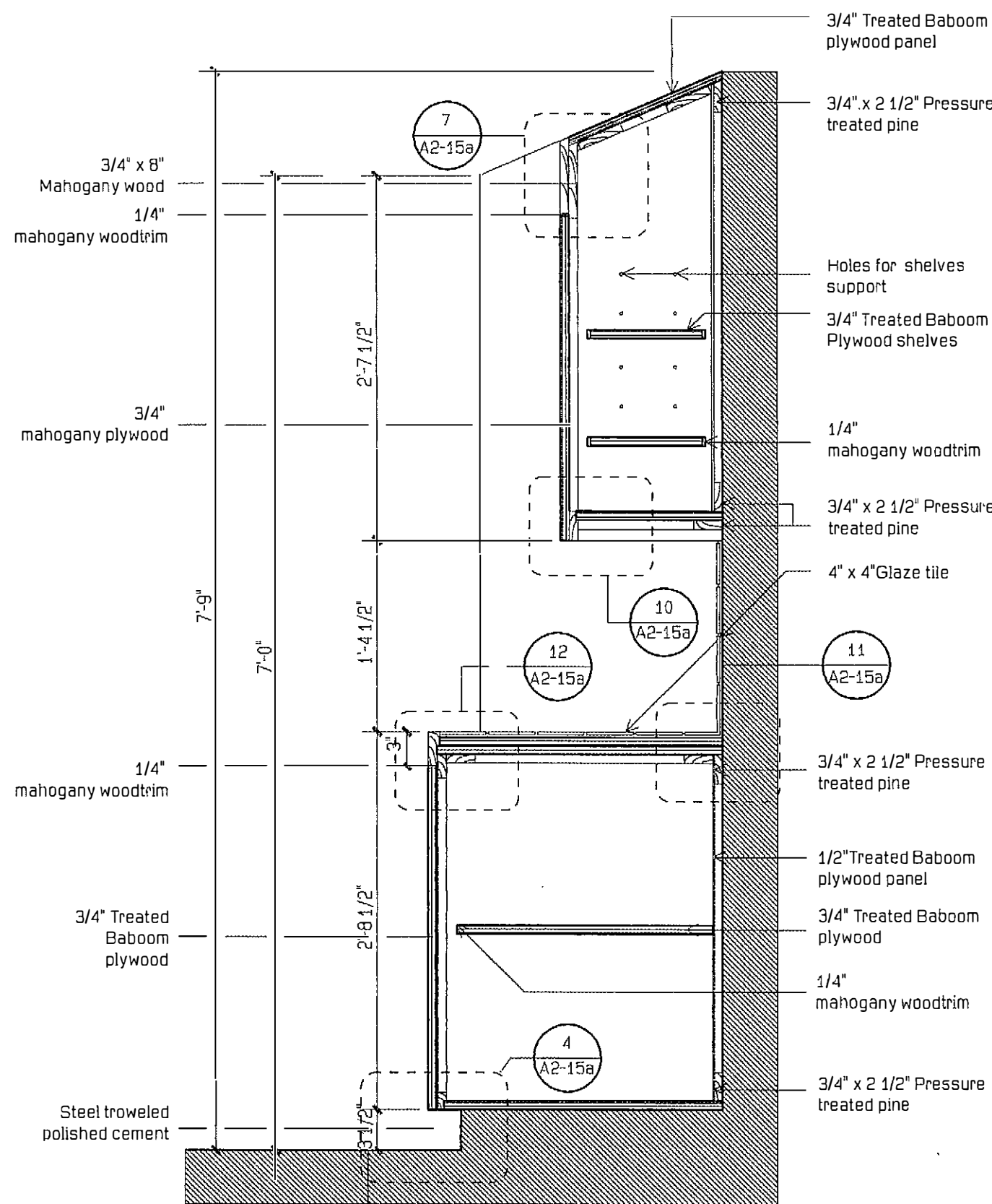
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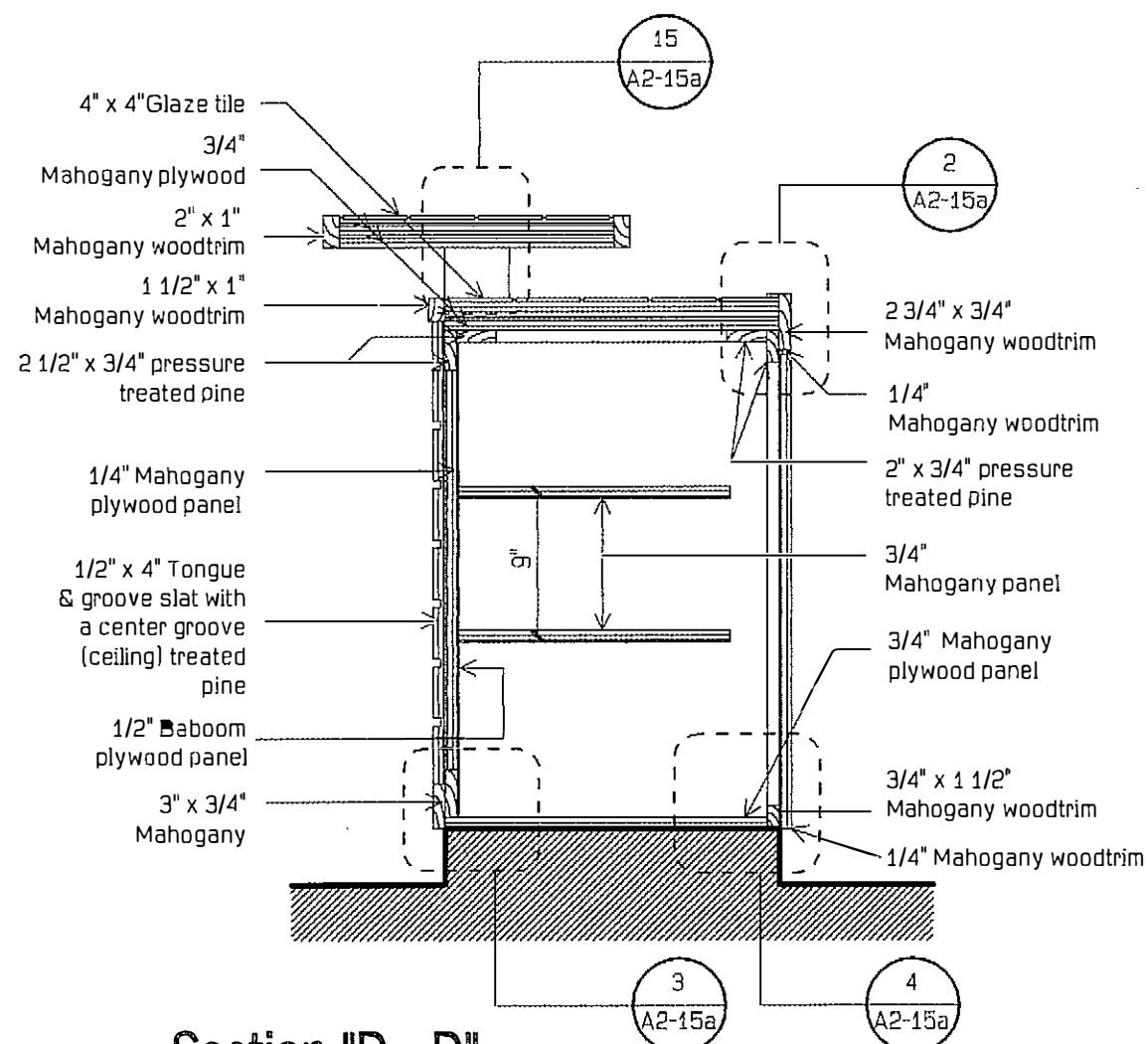
Section "E"
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Section "F"
Scale: 1" = 1'-0"



Section "G"
Scale: 1" = 1'-0"



Section "D - D"
Scale: 1" = 1'-0"

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE

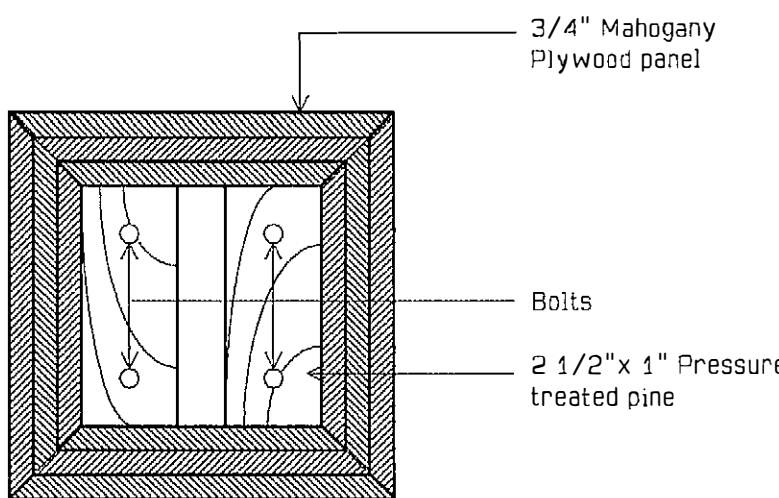
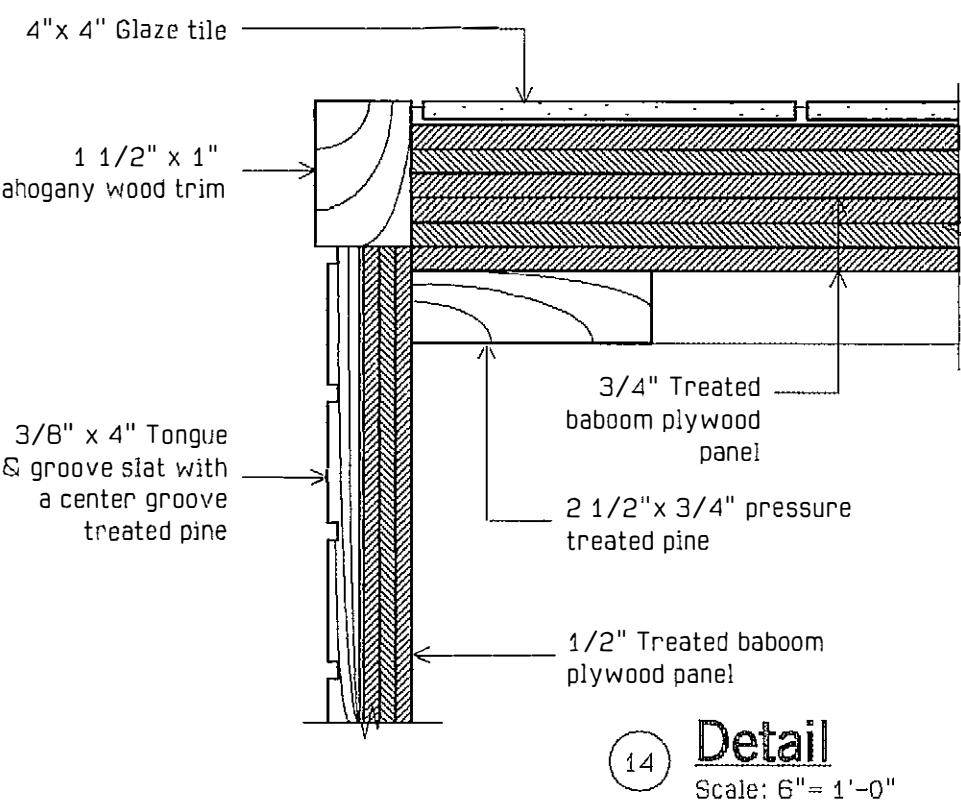
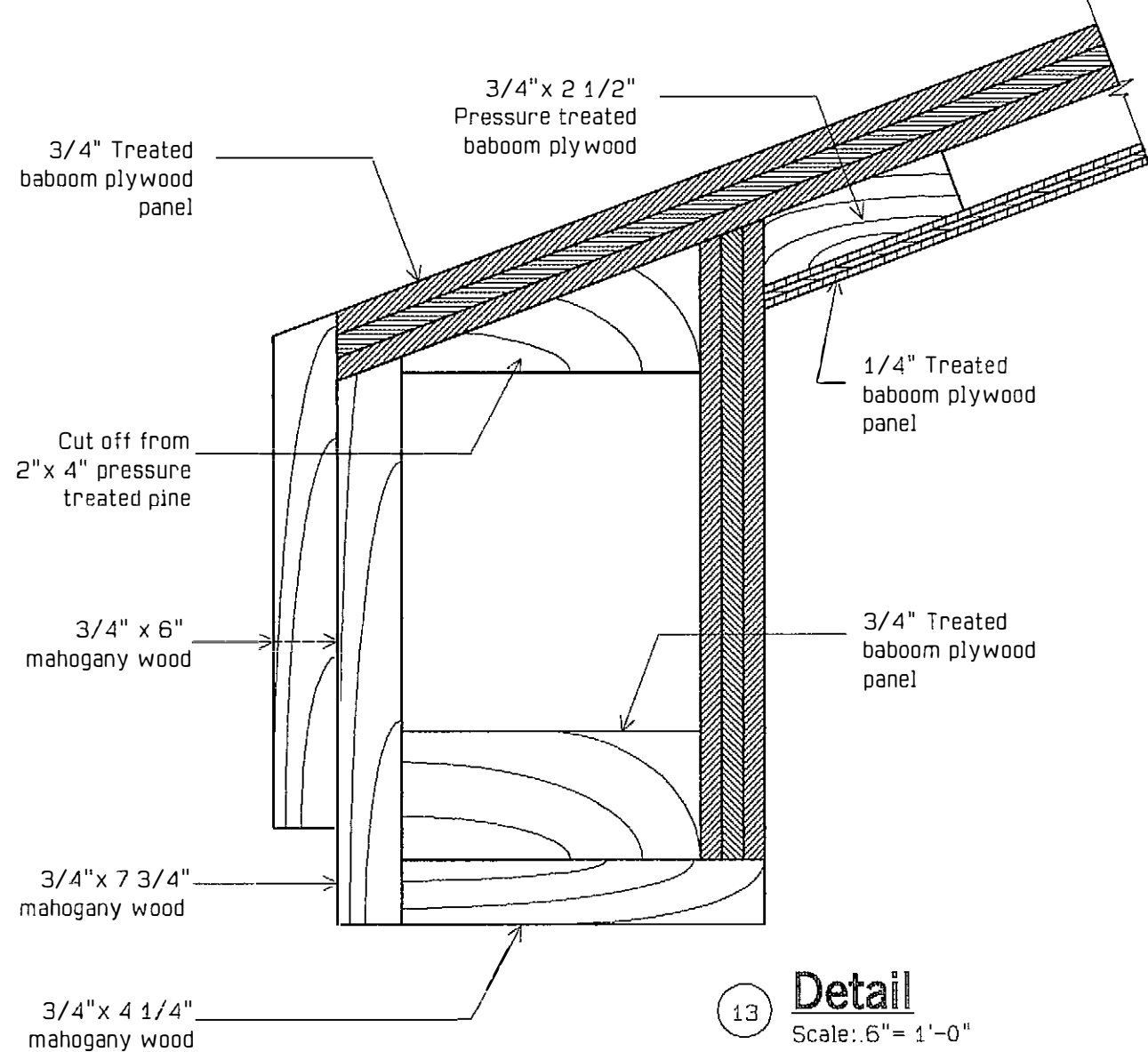
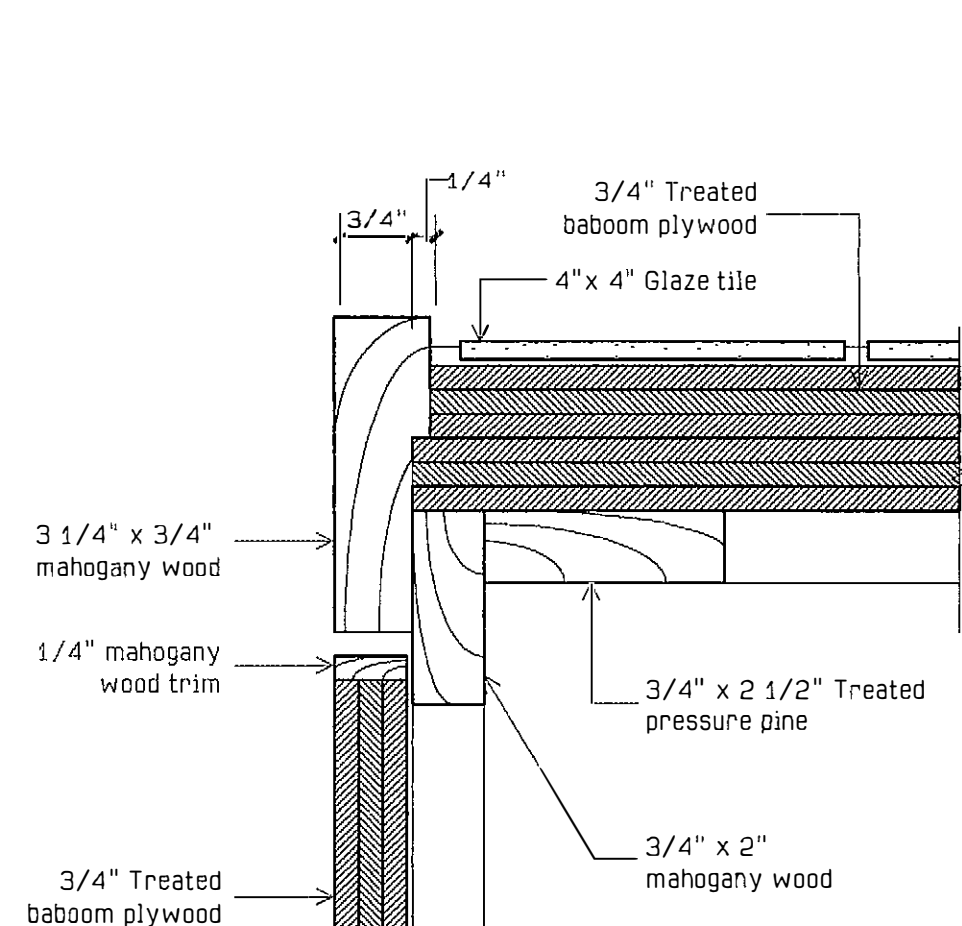
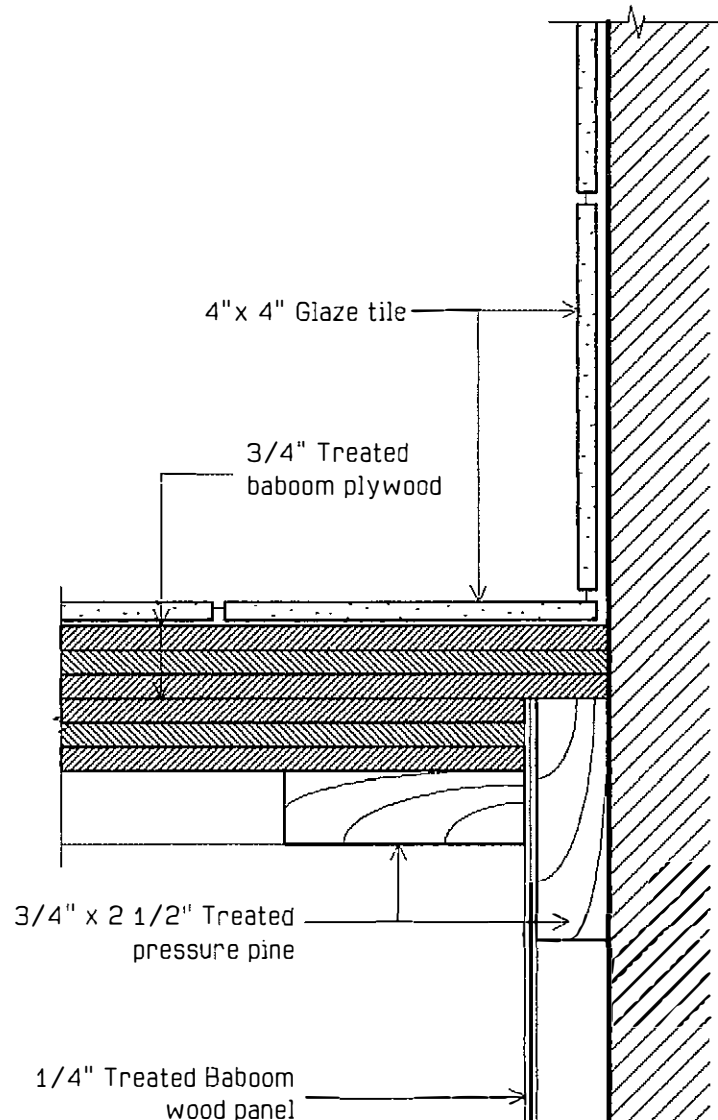
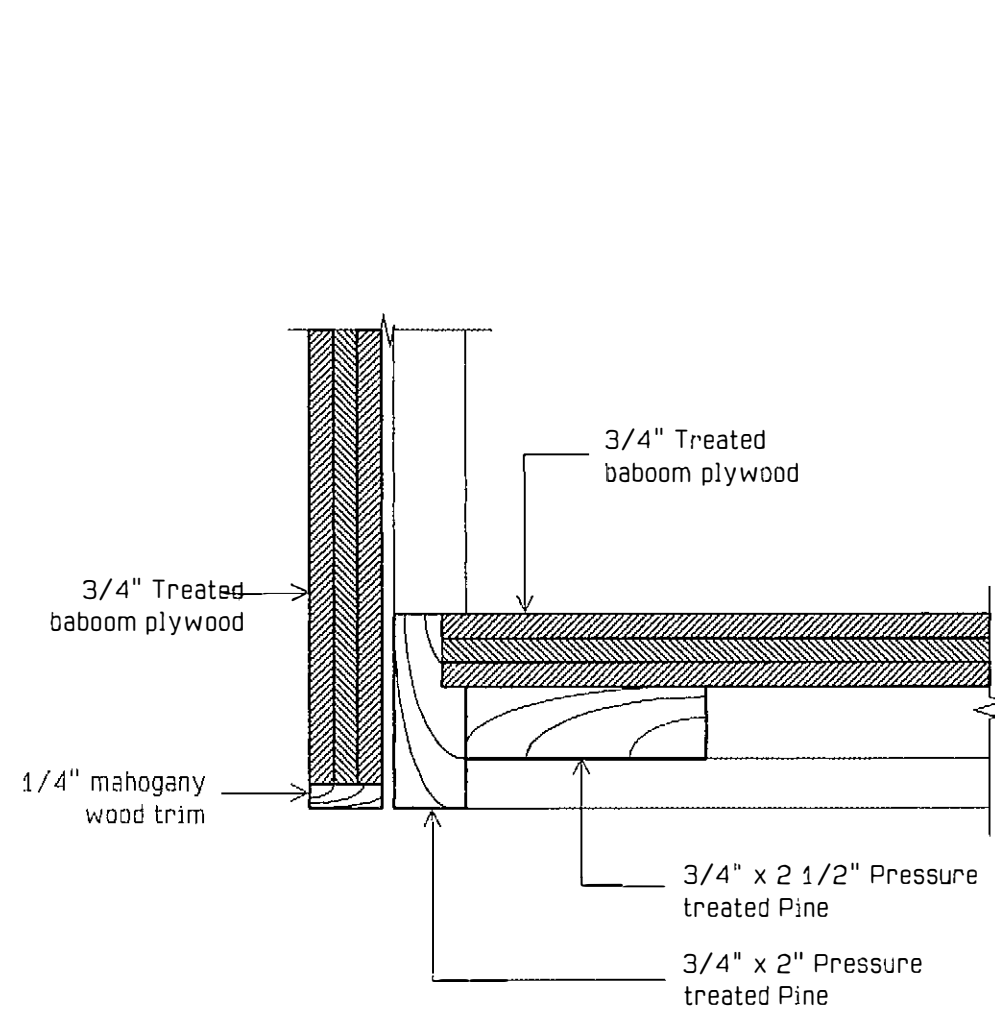
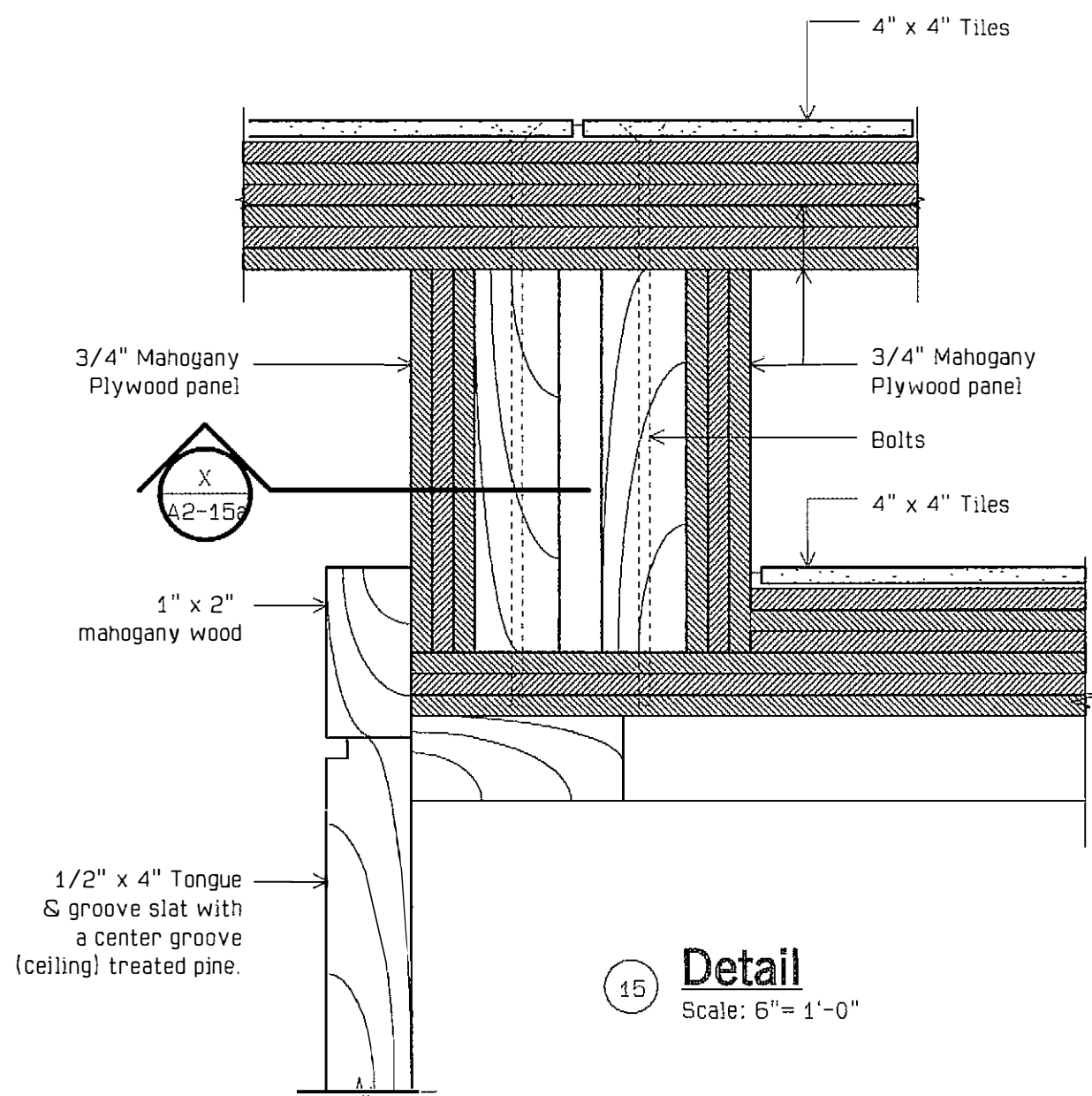
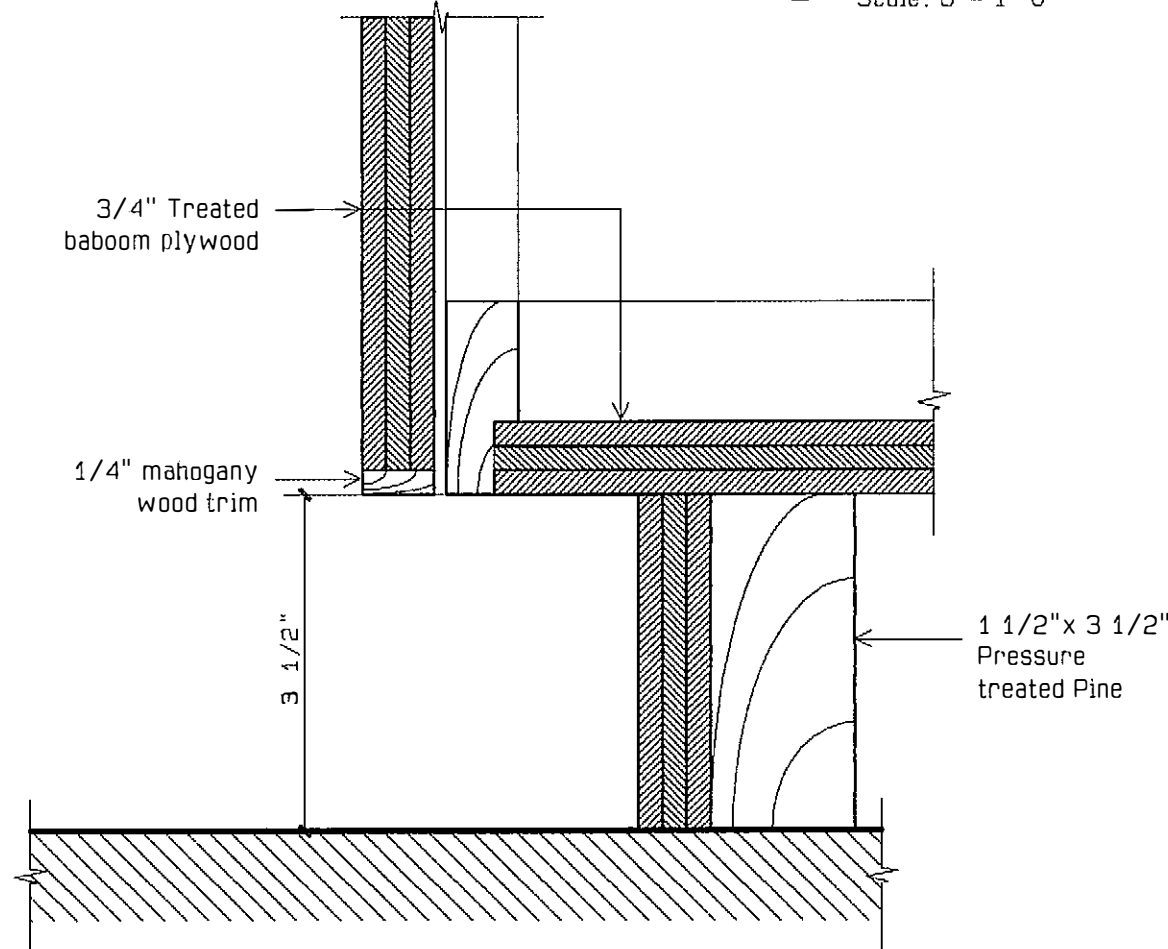
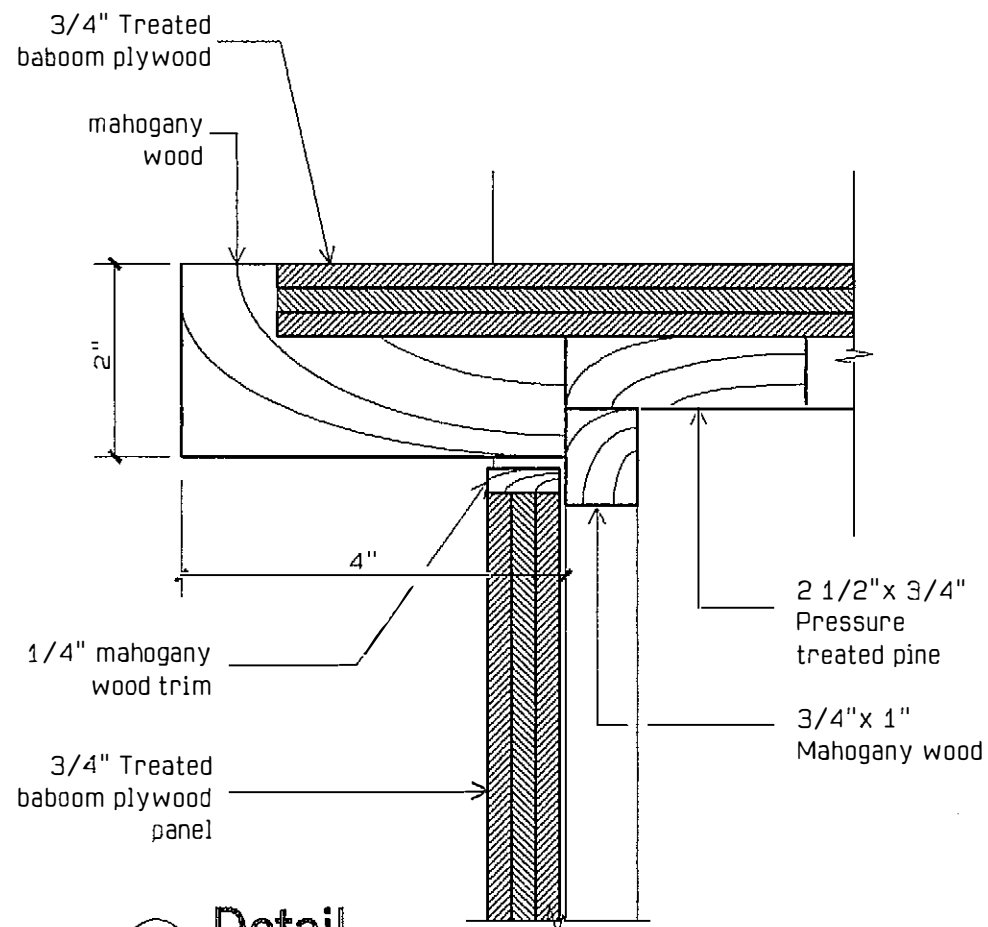
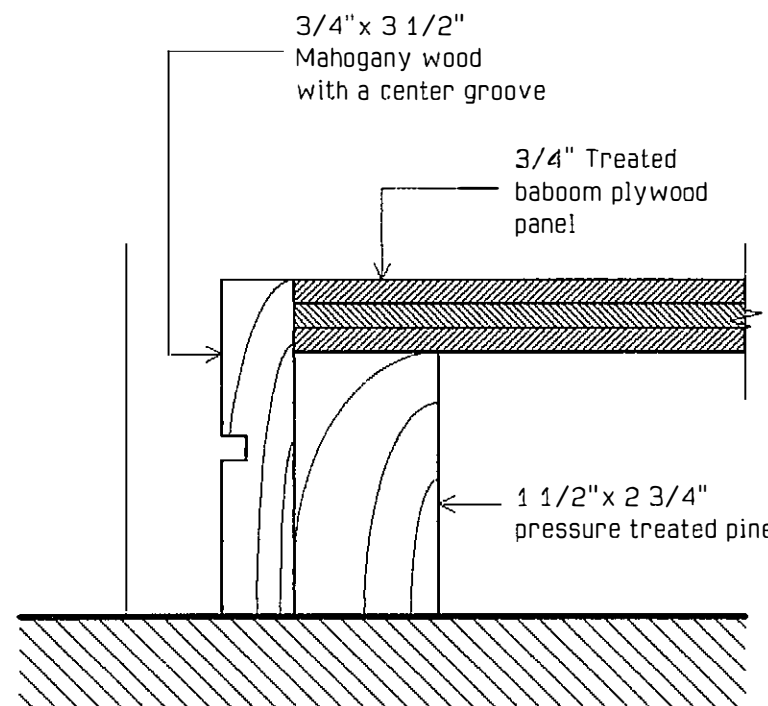
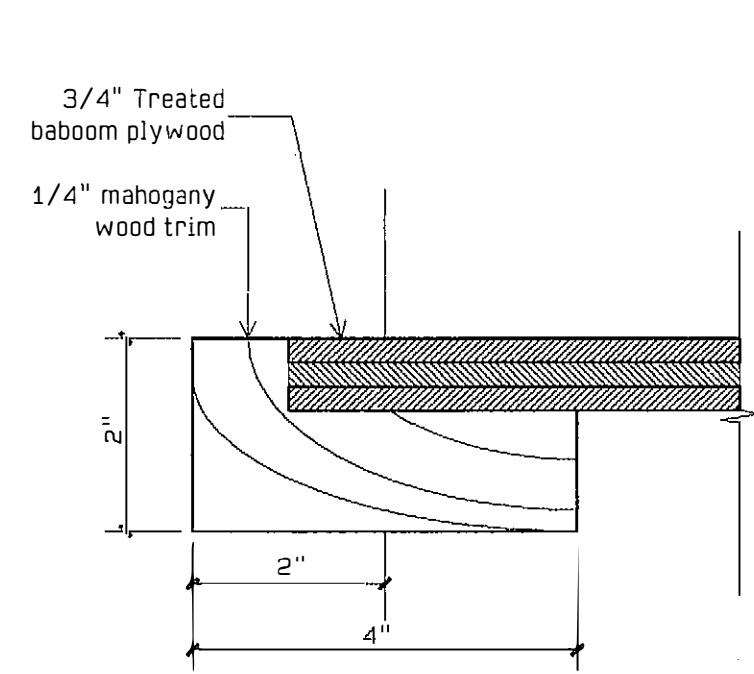
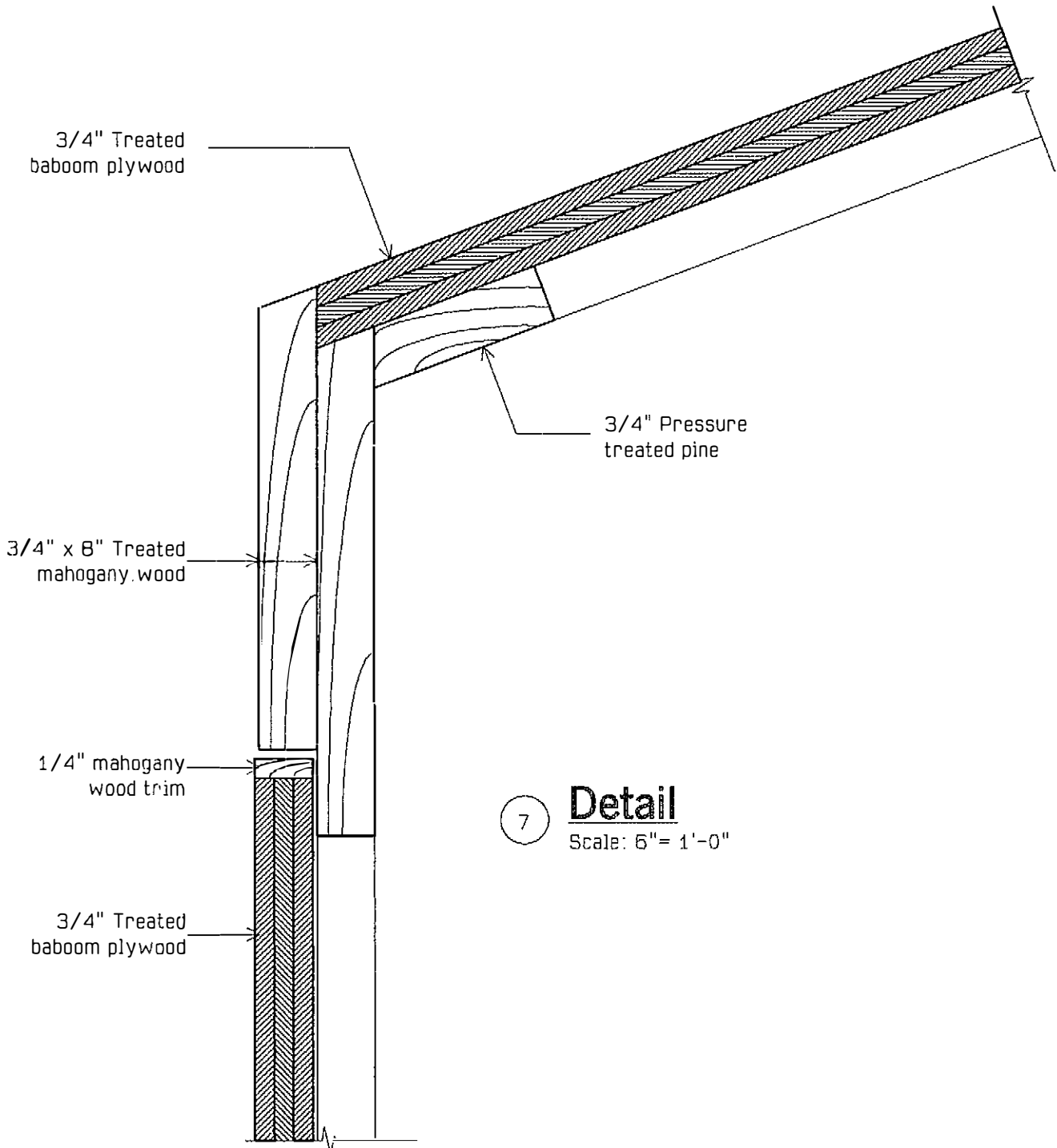
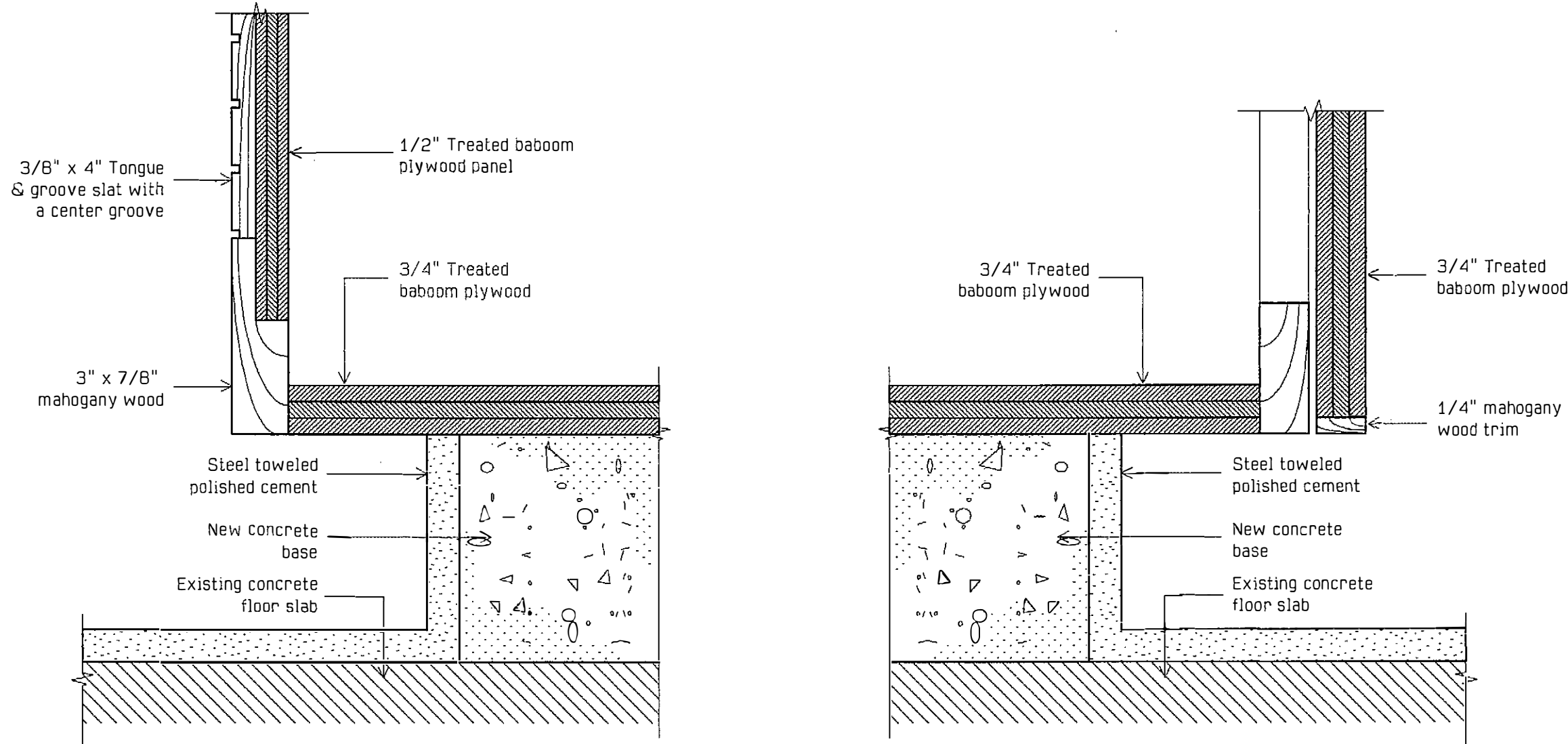
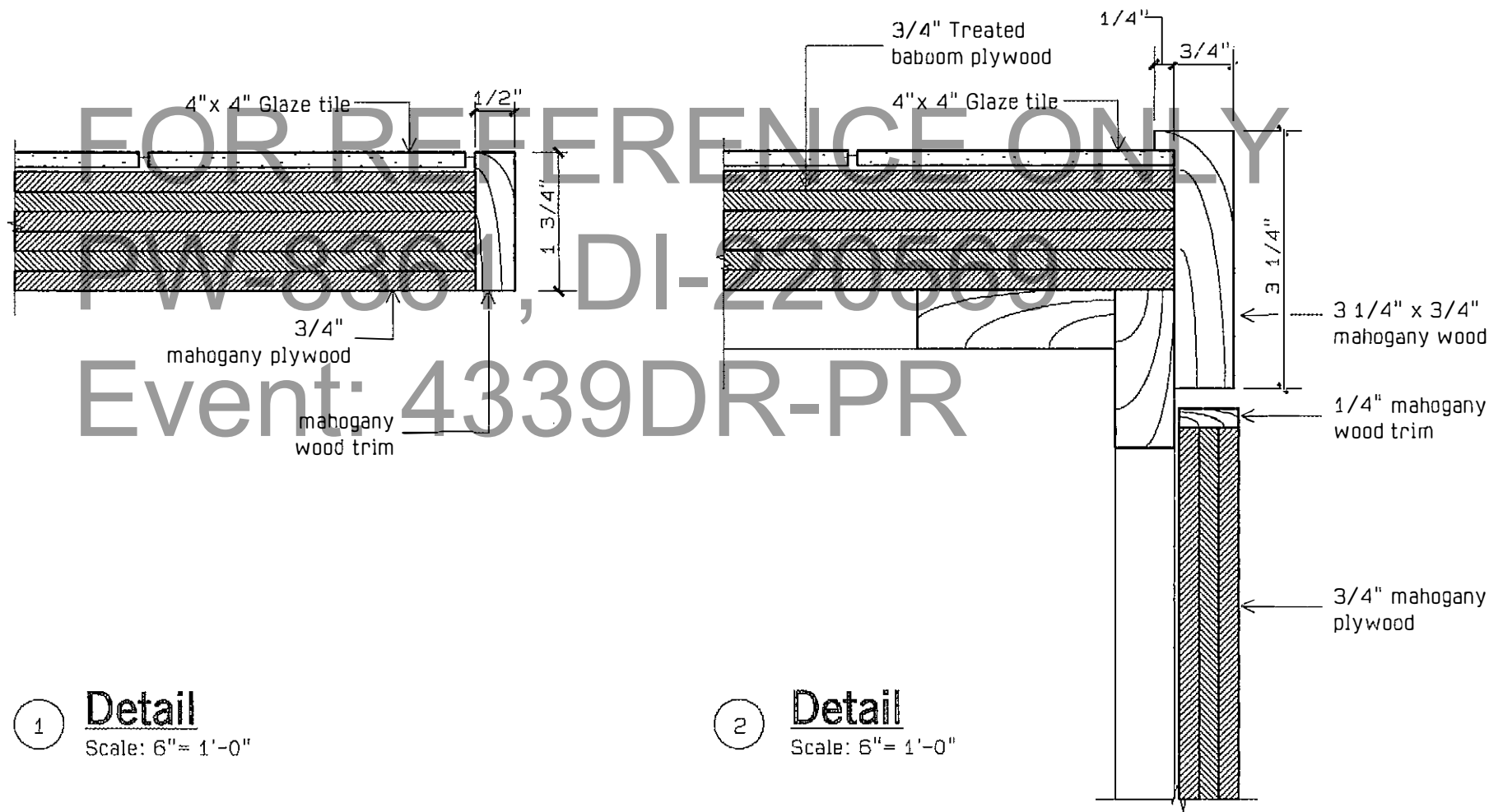
REVISIONS

SCALE: As shown

Sections and Details
Concession and Ticket Sale Area
Building #2

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15

FED. AID. H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	107	181



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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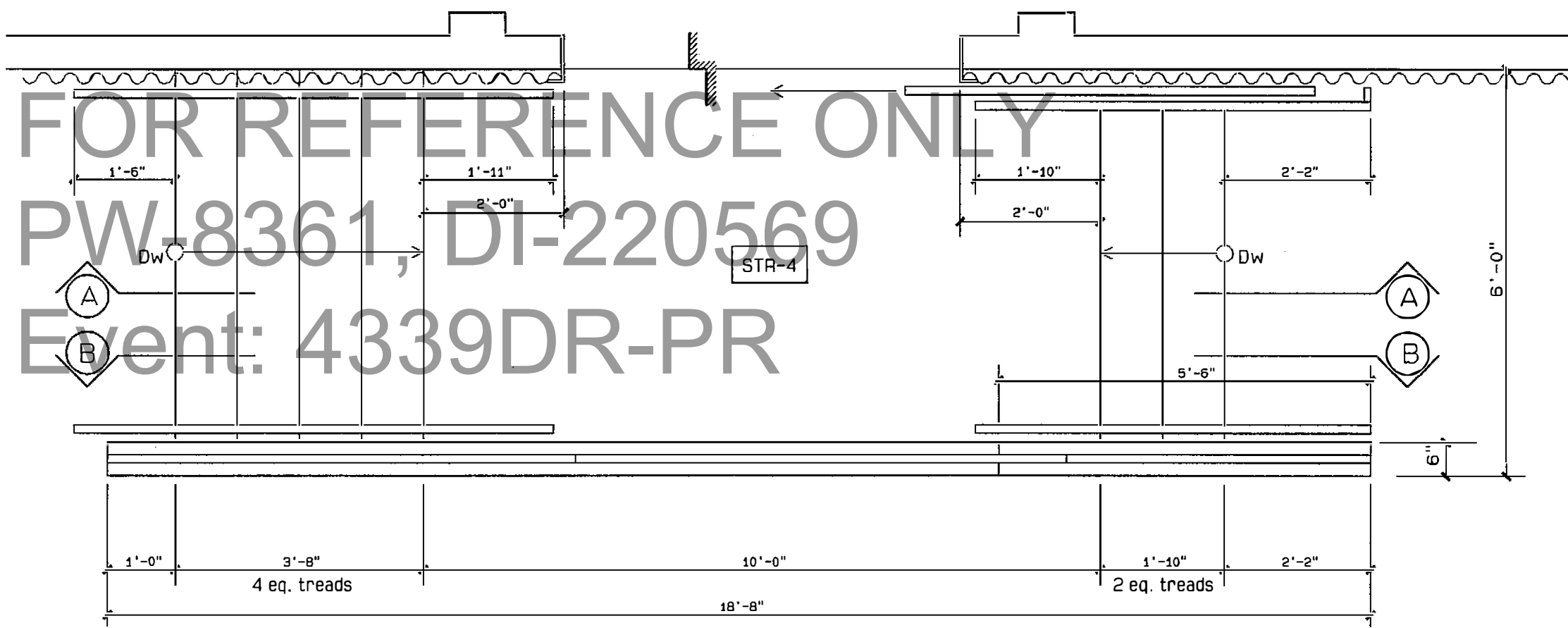
EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

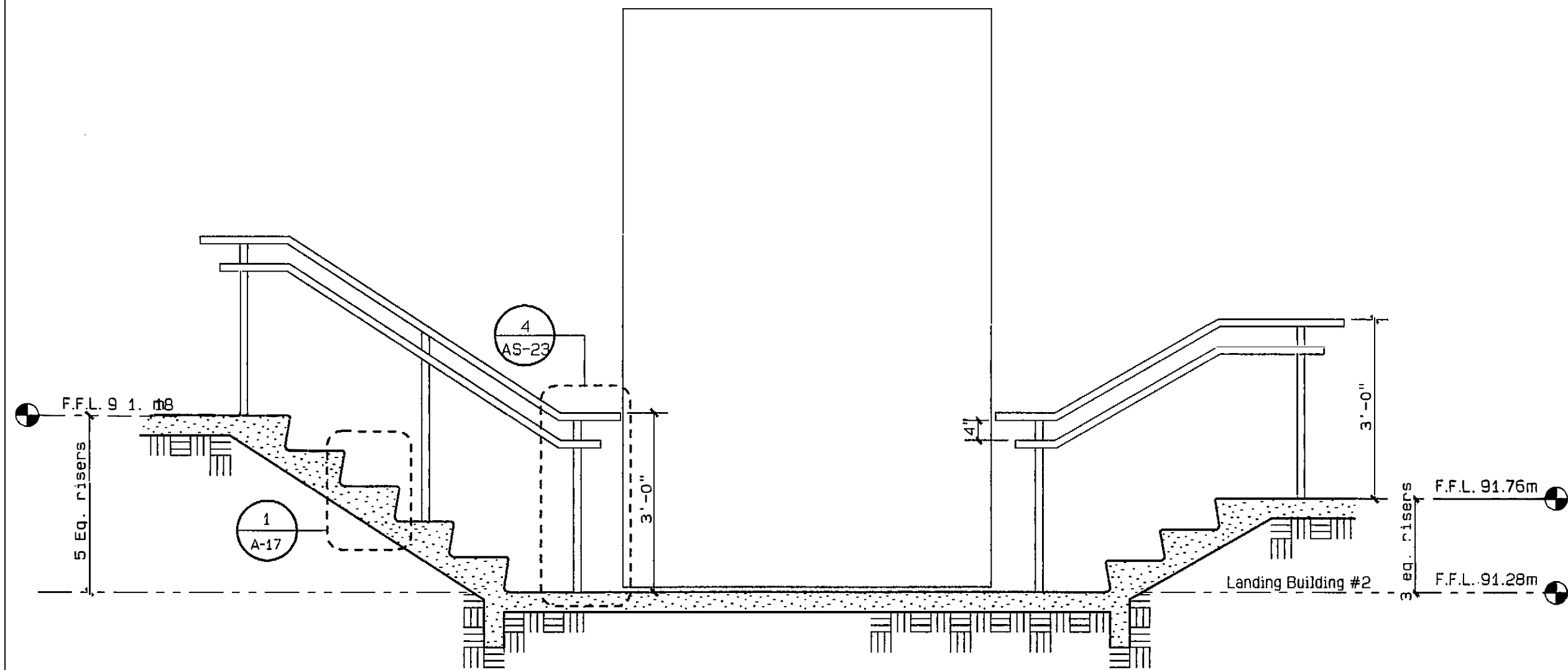
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Concession and Ticket Sale Area
Details
Building #2

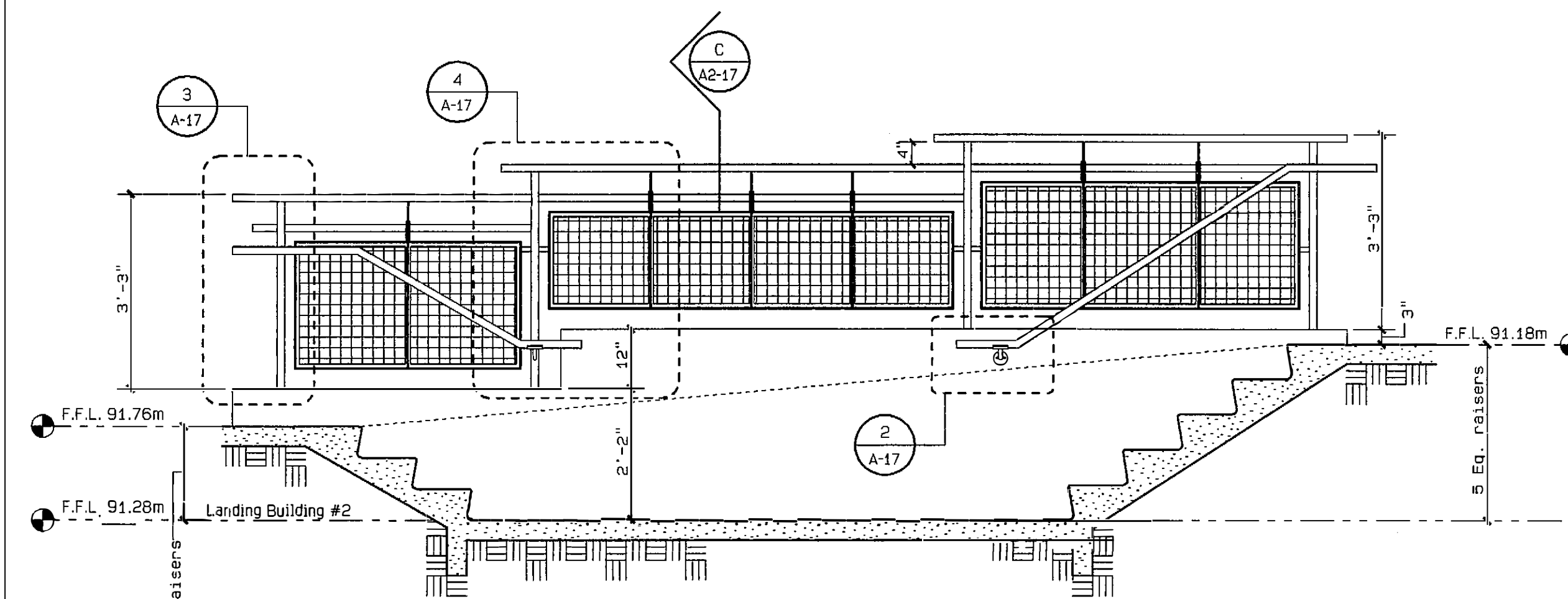
A2
15a



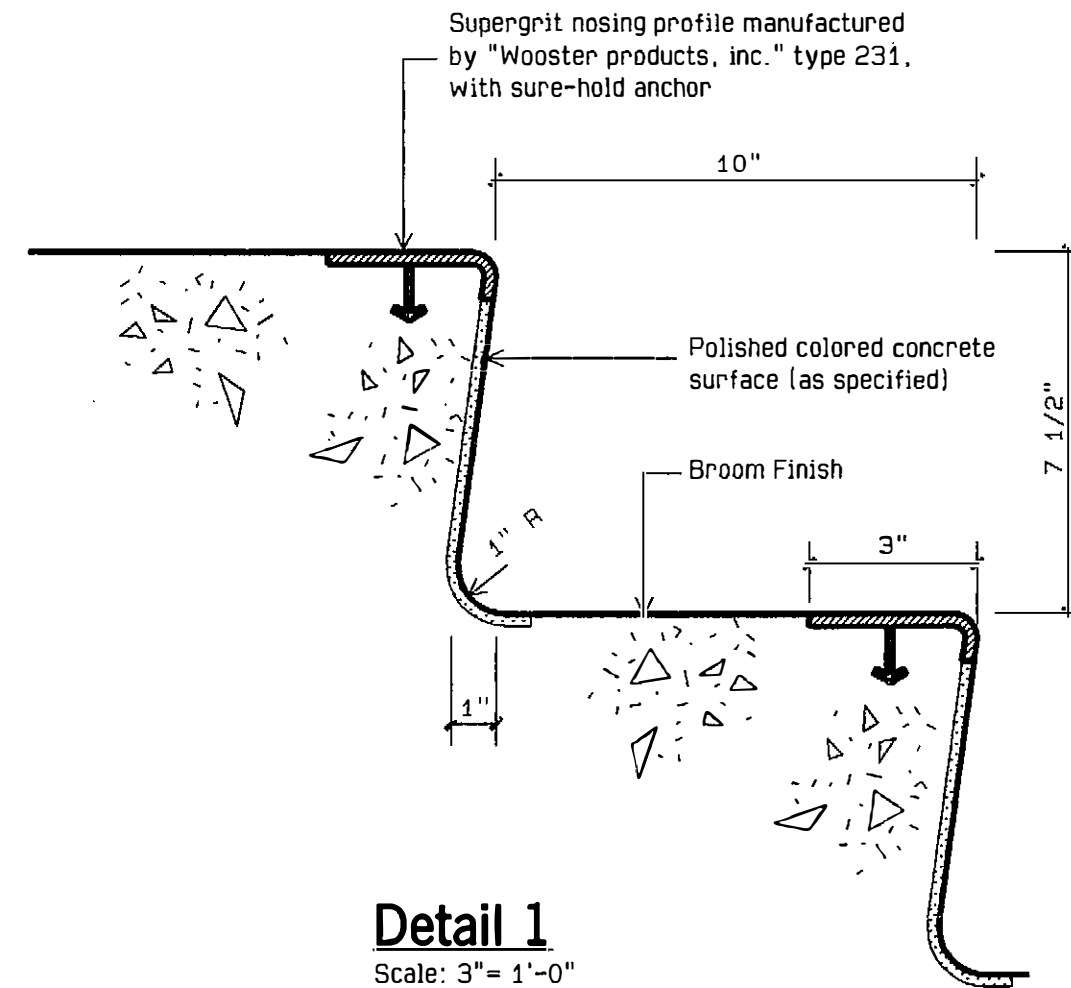
Plan/ Stair #4
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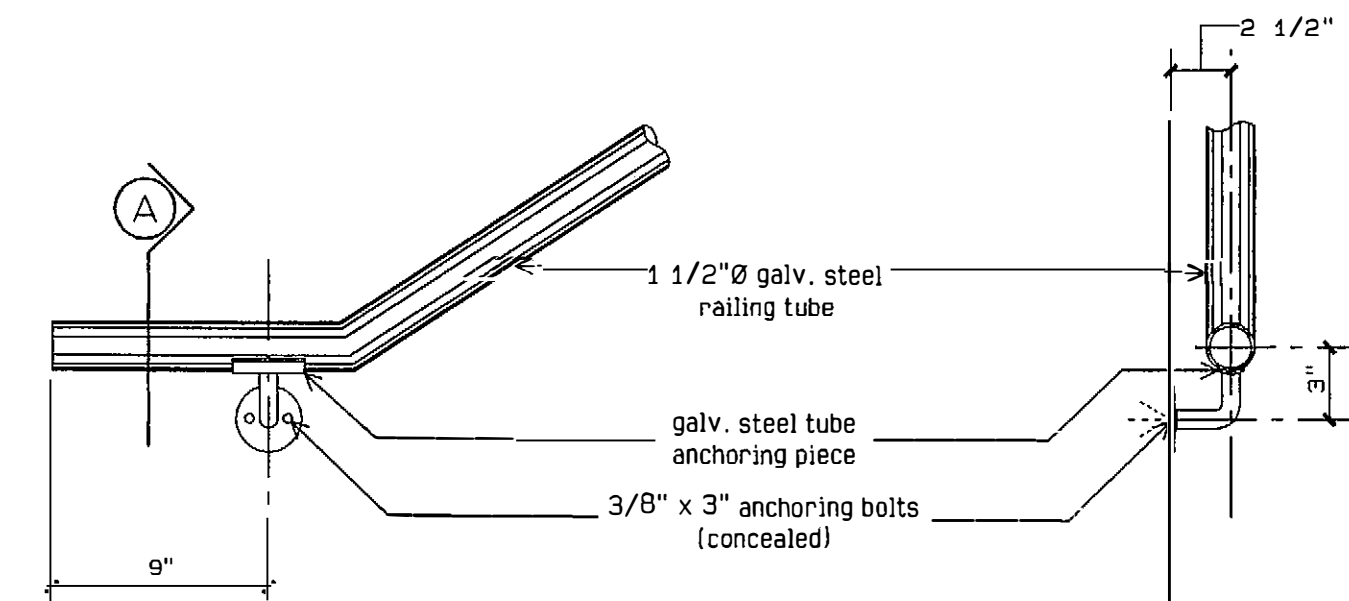
Section "A - A"
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Section "B - B"
Scale: 1/2"= 1'-0"

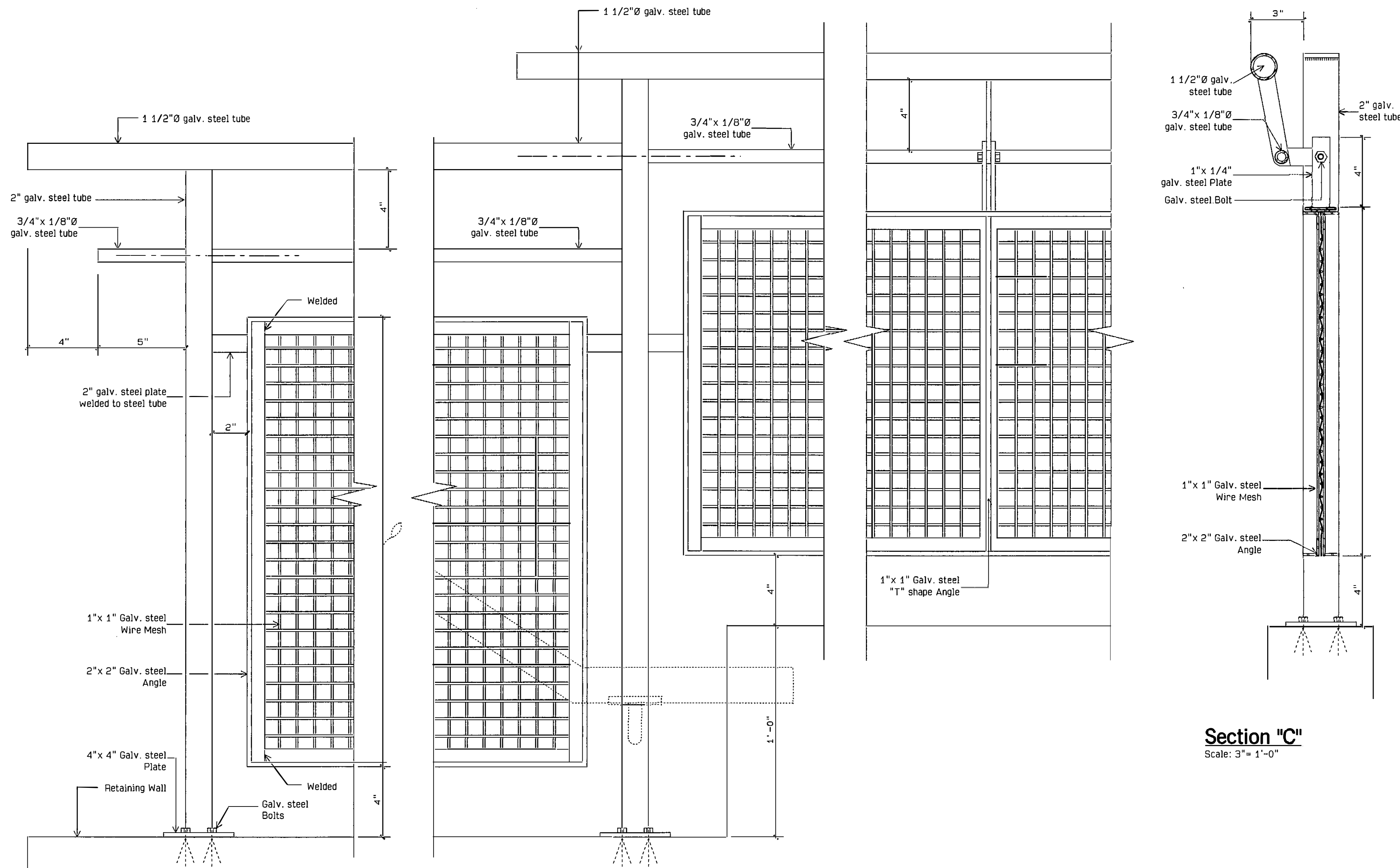


Detail 1
Scale: 3"= 1'-0"



Detail 2
Scale: 1 1/2"=1'-0"

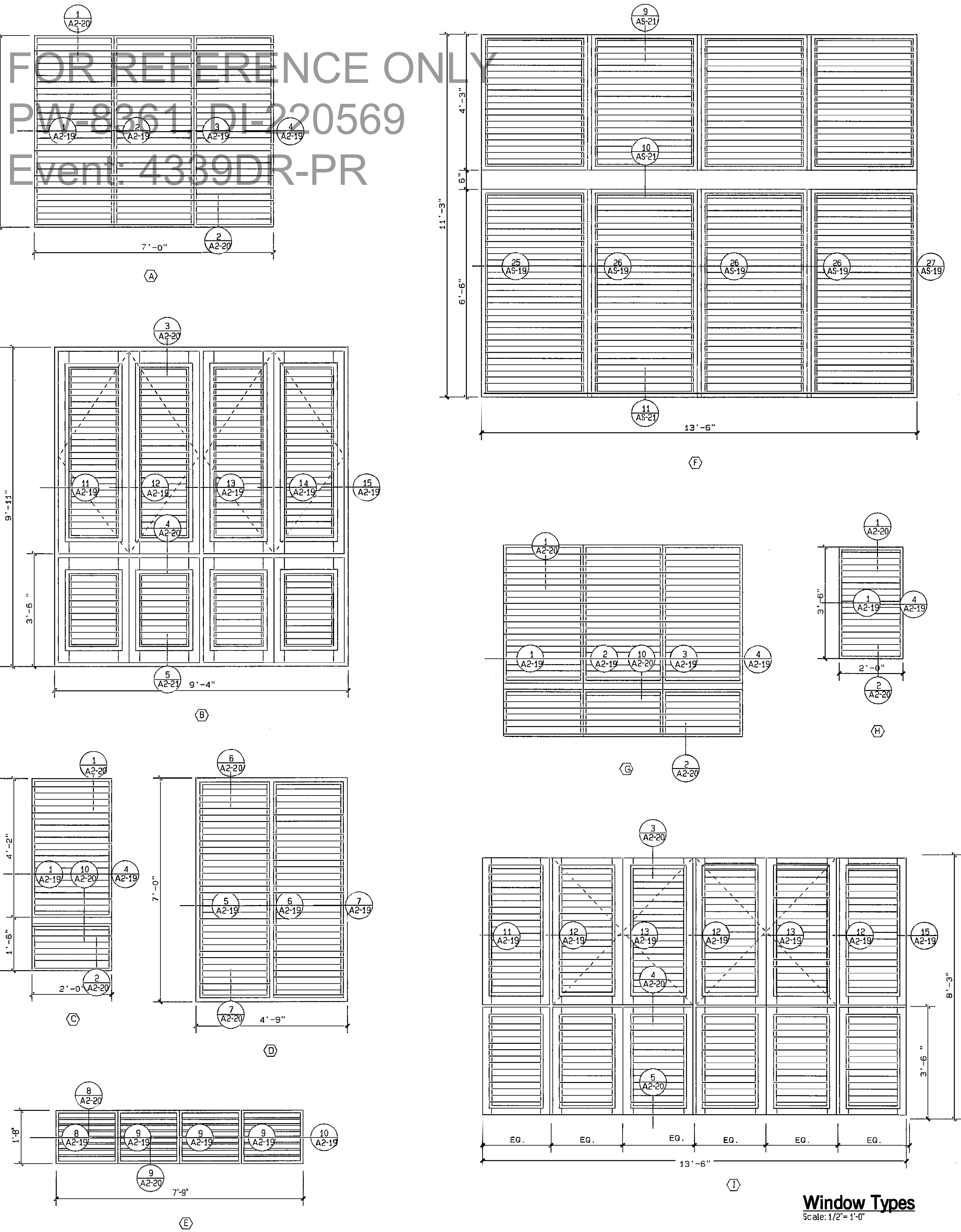
Section
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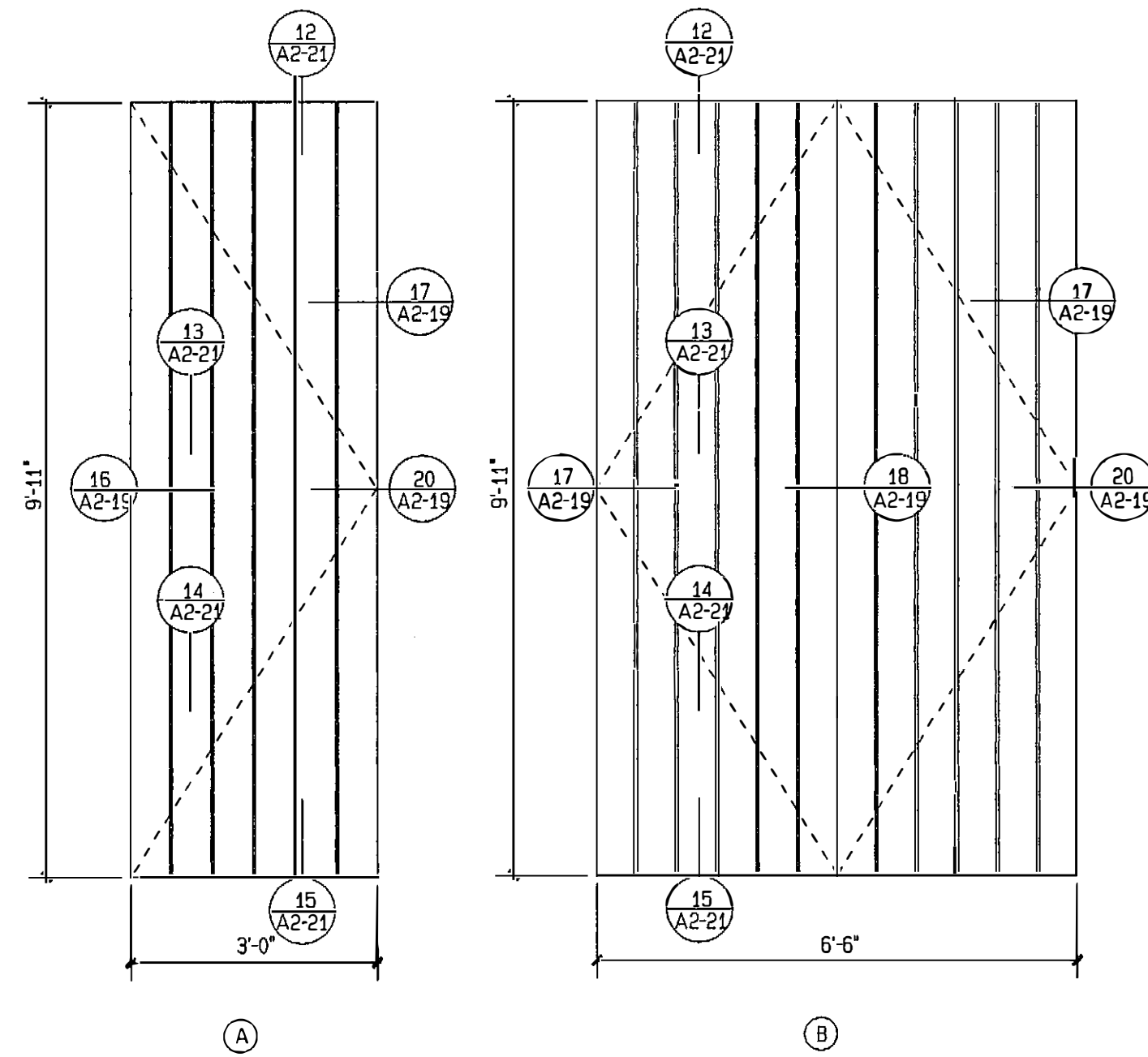
Detail 3
Scale: 3"= 1'-0"

Detail 4
Scale: 3"= 1'-0"

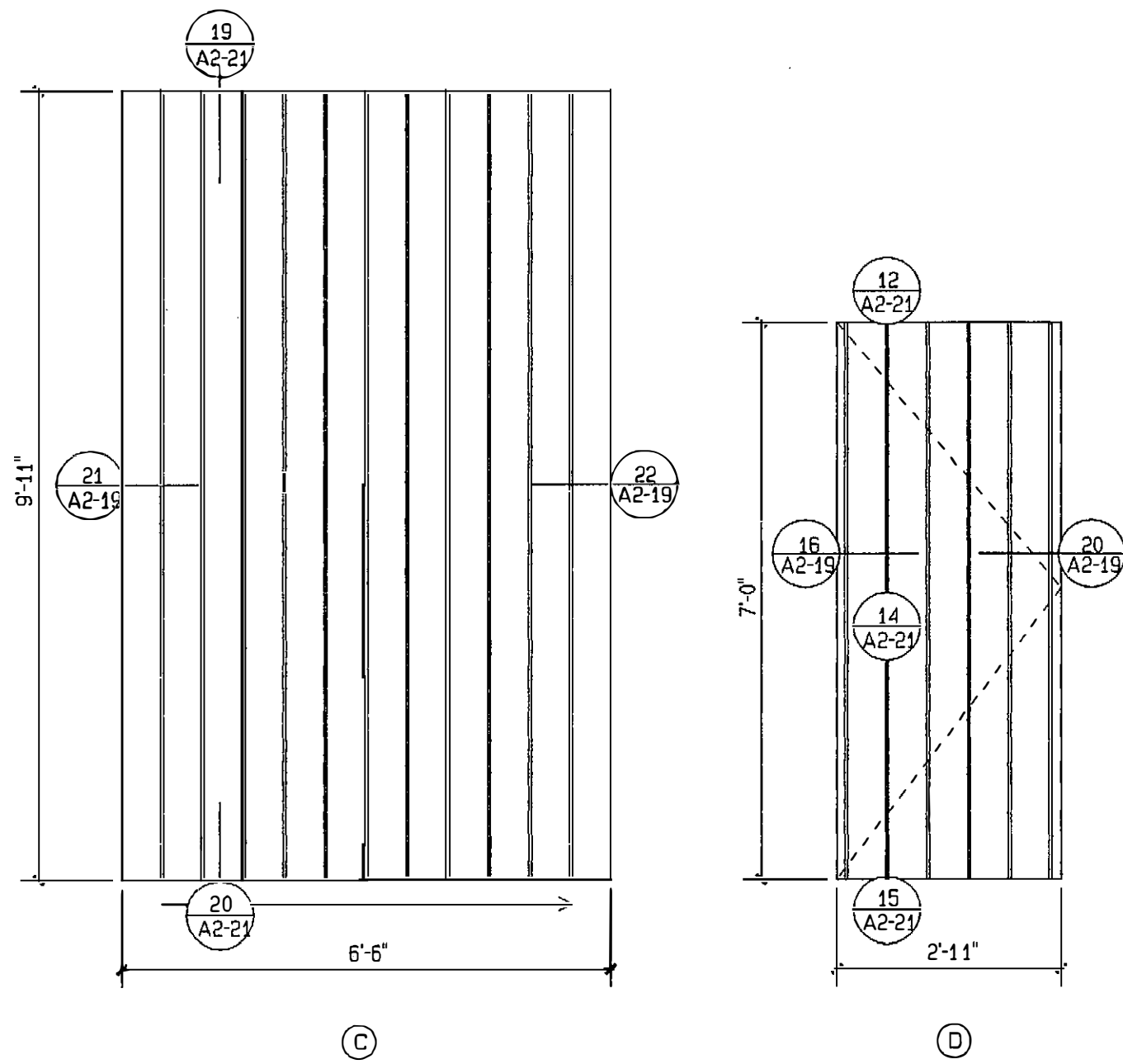
Section "C"
Scale: 3"= 1'-0"



Window Types
Scale: 1/2"=1'-0"



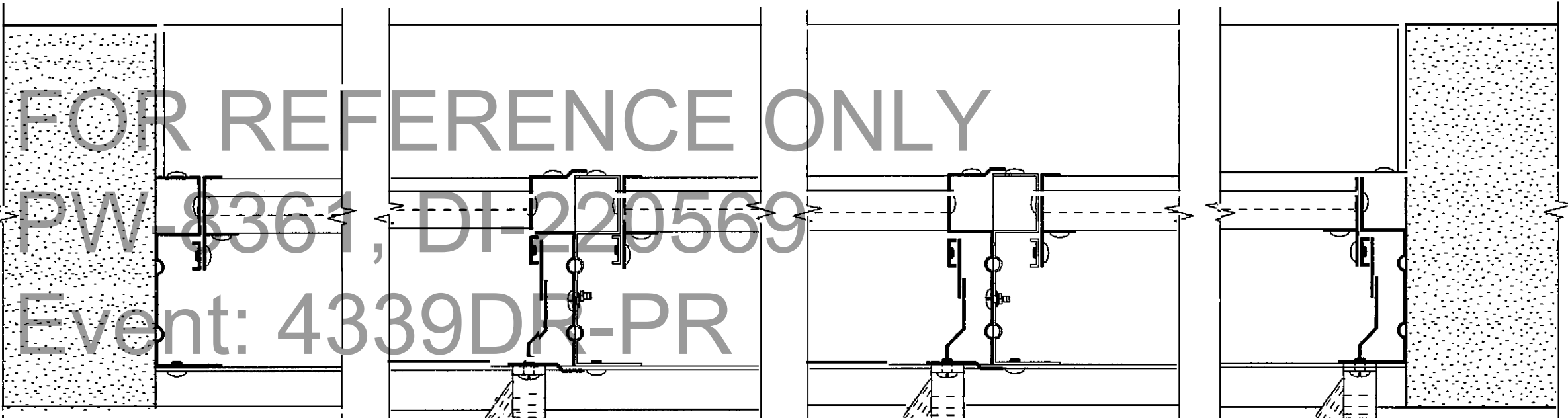
Door Types
Scale: 1/2"=1'-0"



FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	110	181

DB Window Schedule				Building 2		
No.	Type	*Dimension	Material	Fin.	Frame	Notes
201	A	7'-0" x 4'-2"	Treated Pine	Paint	Alum.	Alum. Mechanism/Wood. Jalousie
202	A	7'-0" x 4'-2"	Treated Pine	Paint	Alum.	Alum. Mechanism/Wood. Jalousie
203	C	2'-0" x 5'-8"	Treated Pine	Paint	Alum.	Alum. Mechanism/Wood. Jalousie
204	C	2'-0" x 5'-8"	Treated Pine	Paint	Alum.	Alum. Mechanism/Wood. Jalousie
205	C	2'-0" x 5'-8"	Treated Pine	Paint	Alum.	Alum. Mechanism/Wood. Jalousie
206	C	2'-0" x 5'-8"	Treated Pine	Paint	Alum.	Alum. Mechanism/Wood. Jalousie
207	G	7'-0" x 5'-8"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
208	G	7'-0" x 5'-8"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
209	B	9'-7" x 9'-11"	Treated Pine	Paint	Td. Pine	Double leaf, btm. panel, alum. / wd. Jalousie, wd. frame
210	B	9'-7" x 9'-11"	Treated Pine	Paint	Td. Pine	Double leaf, btm. panel, alum. / wd. Jalousie, wd. frame
211	B	9'-7" x 9'-11"	Treated Pine	Paint	Td. Pine	Double leaf, btm. panel, alum. / wd. Jalousie, wd. frame
212	B	9'-7" x 9'-11"	Treated Pine	Paint	Td. Pine	Double leaf, btm. panel, alum. / wd. Jalousie, wd. frame
213	H	2'-0" x 5'-0"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
214	H	2'-0" x 5'-0"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
215	H	2'-0" x 5'-0"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
216	H	2'-0" x 5'-0"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
217	H	2'-0" x 5'-0"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
218	H	2'-0" x 5'-0"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
219	E	9'-7" x 1'-8"	Treated Pine	B.E.P.	Alum.	Aluminum "Z" Type Fixed Louvers (7)
220	E	9'-4" x 1'-8"	Treated Pine	B.E.P.	Alum.	Aluminum "Z" Type Fixed Louvers (7)
221	E	9'-4" x 1'-8"	Aluminum	B.E.P.	Alum.	Aluminum "Z" Type Fixed Louvers (7)
222	E	9'-6" x 1'-8"	Aluminum	B.E.P.	Alum.	Aluminum "Z" Type Fixed Louvers (7)
223	B	9'-7" x 9'-11"	Treated Pine	Paint	Td. Pine	Double leaf, btm. panel, alum. / wd. Jalousie, wd. frame
224	B	9'-4" x 9'-0"	Treated Pine	Paint	Td. Pine	Double leaf, btm. panel, alum. / wd. Jalousie, wd. frame
225	B	9'-4" x 9'-0"	Treated Pine	Paint	Td. Pine	Double leaf, btm. panel, alum. / wd. Jalousie, wd. frame
226	B	9'-6" x 9'-0"	Treated Pine	Paint	Td. Pine	Double leaf, btm. panel, alum. / wd. Jalousie, wd. frame
227	H	2'-0" x 5'-0"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
228	H	2'-0" x 5'-0"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
229	H	2'-0" x 5'-0"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
230	H	2'-0" x 5'-0"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
231	H	2'-0" x 5'-0"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
232	H	2'-0" x 5'-0"	Treated Pine	Paint	Alum.	Alum. / Wood Jalousie
233	D	4'-9" x 7'-0"	Treated Pine	Paint	Td. Pine	Alum. / Wood Jalousie, wd. frame
234	D	4'-9" x 7'-0"	Treated Pine	Paint	Td. Pine	Alum. / Wood Jalousie, wd. frame
235	E	7'-9" x 1'-8"	Aluminum	B.E.P.	Alum.	Aluminum "Z" Type Fixed Louvers (7)
236	E	7'-8" x 1'-8"	Aluminum	B.E.P.	Alum.	Aluminum "Z" Type Fixed Louvers (7)
237	E	7'-8" x 1'-8"	Aluminum	B.E.P.	Alum.	Aluminum "Z" Type Fixed Louvers (7)
238	E	7'-9" x 1'-8"	Aluminum	B.E.P.	Alum.	Aluminum "Z" Type Fixed Louvers (7)
239	F	13'-6" x 11'-3"	Treated Pine	Paint	Td. Pine	Aluminum Mechanism / Wood. Jalousie, wd. frame
* Contractor shall verify all dimensions on site.						
B.E.P.-Baked Enamel Paint						

DB Door Schedule			Building 2					
No.	Type	*Dimension	Material	Fin.	Saddle	Tran.	Frame	Notes
201	A	3'-0" x 9'-11"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), single leaf
202	B	6'-6" x 9'-11"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), double leaf
203	A	3'-1" x 9'-11"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), single leaf
204	D	2'-11" x 7'-0"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), single leaf
205	C	6'-7" x 9'-11"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), sliding
206	C	6'-6" x 9'-11"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), sliding
207	F	2'-3" x 7'-0"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), double leaf
208	B	5'-10" x 7'-0"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), double leaf
209	D	2'-11" x 7'-0"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), single leaf
210	D	2'-11" x 7'-0"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), single leaf
211	A	2'-11" x 7'-0"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), single leaf
212	D	3'-1" x 7'-0"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), single leaf
213	B	5'-10" x 7'-0"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), double leaf
214	A	2'-2" x 7'-0"	Treated Pine	Paint	—	—	Td. Pine	Tablón (batten), single leaf
215	E	13'-6" x 10'-0"	Alum.	Nat.	—	—	Alum.	Cornell Rolling Grille, Visionaire Model KFG
* Contractor shall verify all dimensions on site.								

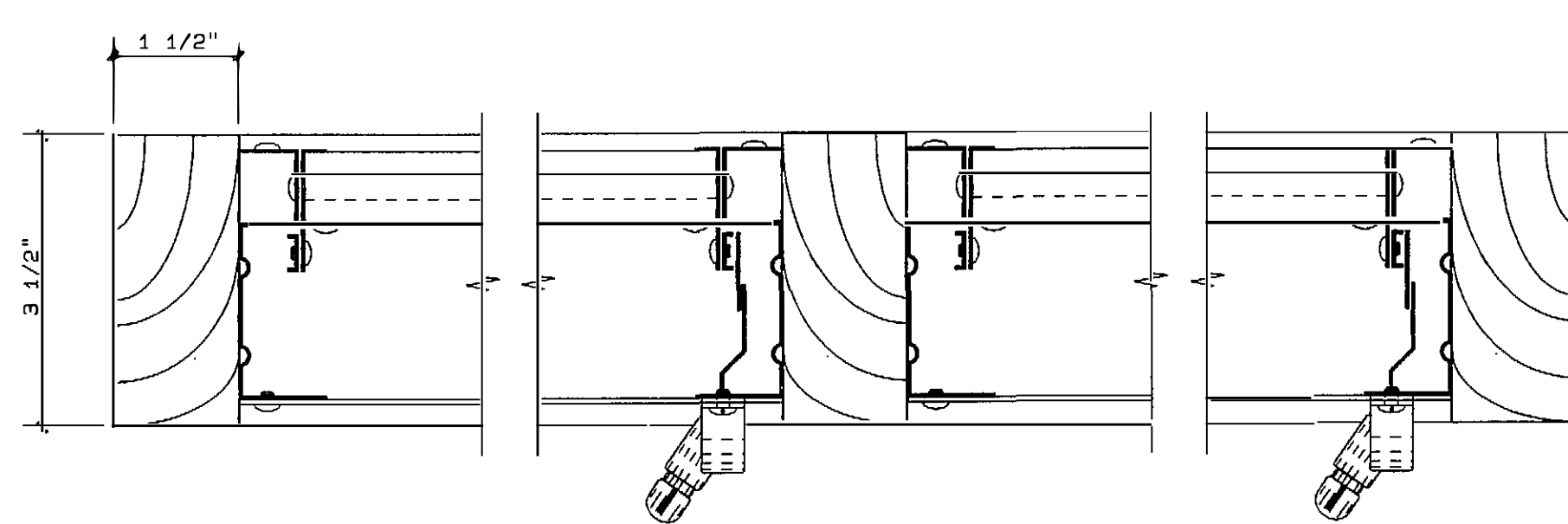


Detail 1
Scale: 6"=1'-0" A2-19

Detail 2
Scale: 6"=1'-0" A2-19

Detail 3
Scale: 6"=1'-0" A2-19

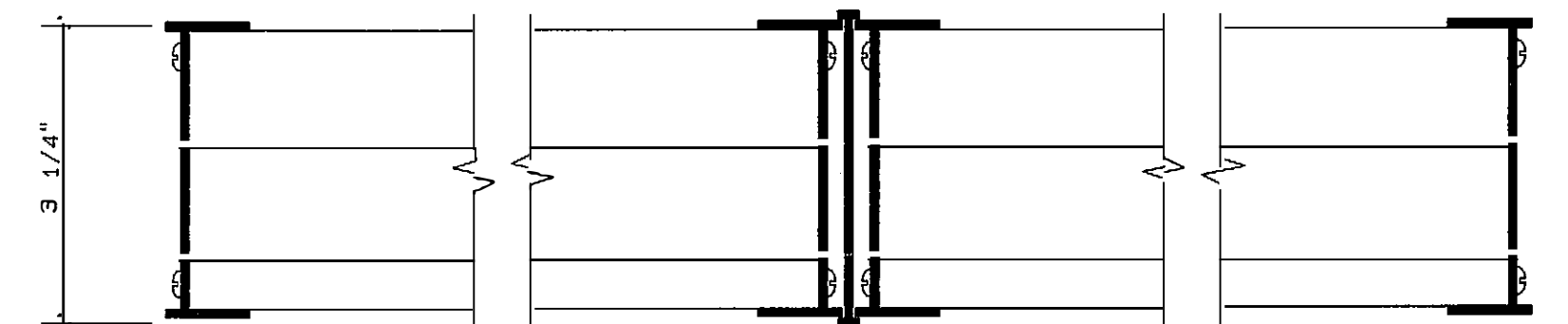
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Scale: 6"=1'-0" A2-19



Detail 5
Scale: 6"=1'-0" A2-19

Detail 6
Scale: 6"=1'-0" A2-19

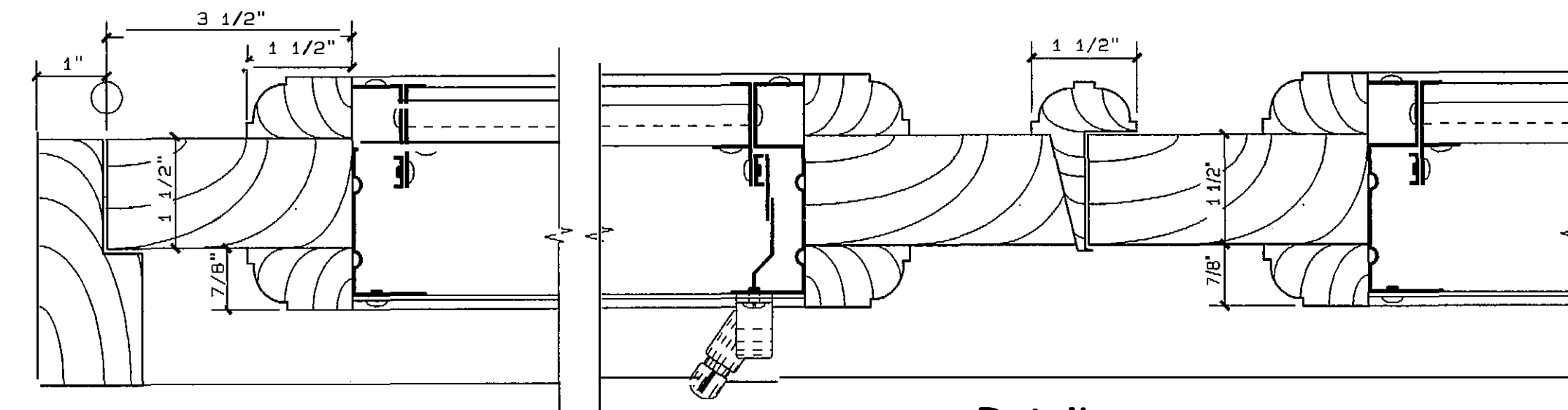
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Scale: 6"=1'-0" A2-19



Detail 8
Scale: 6"=1'-0" A2-19

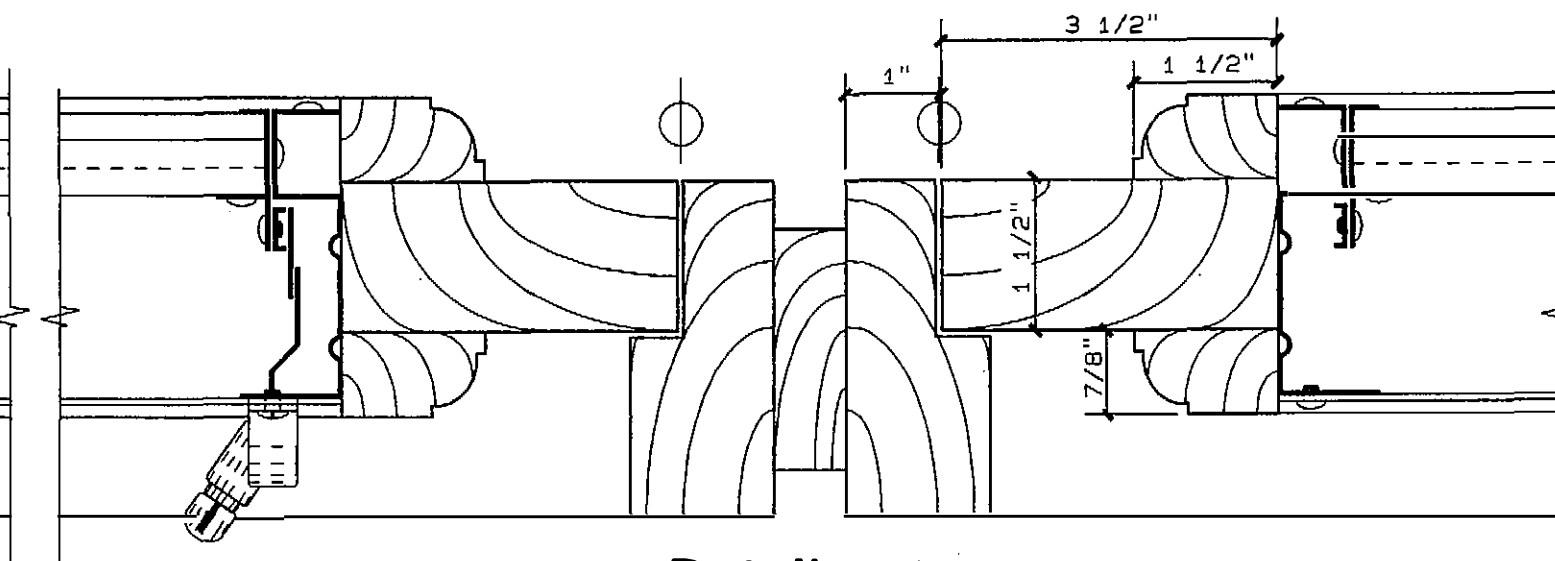
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Scale: 6"=1'-0" A2-19

Detail 10
Scale: 6"=1'-0" A2-19



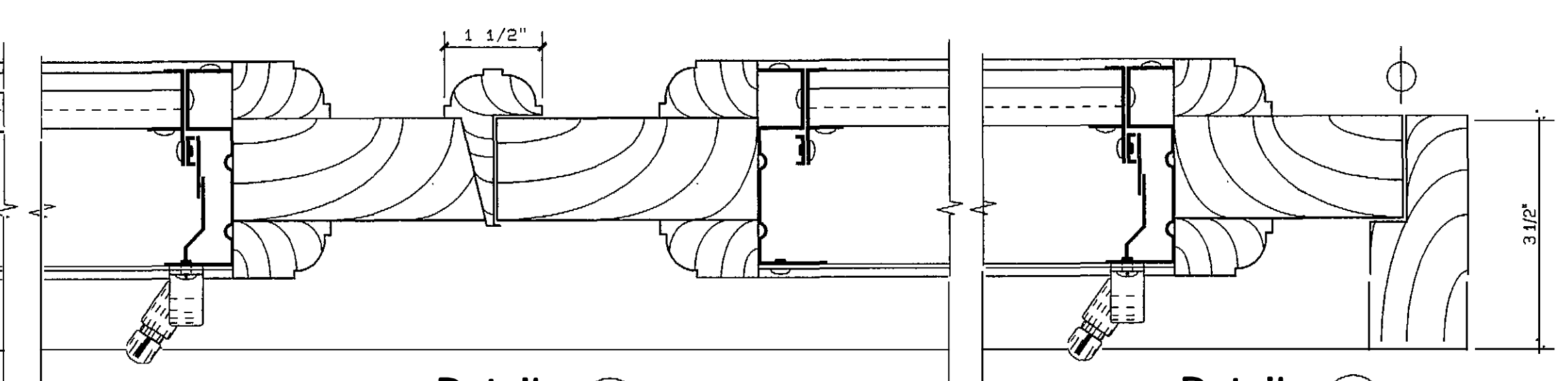
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Scale: 6"=1'-0" A2-19

Detail 12
Scale: 6"=1'-0" A2-19

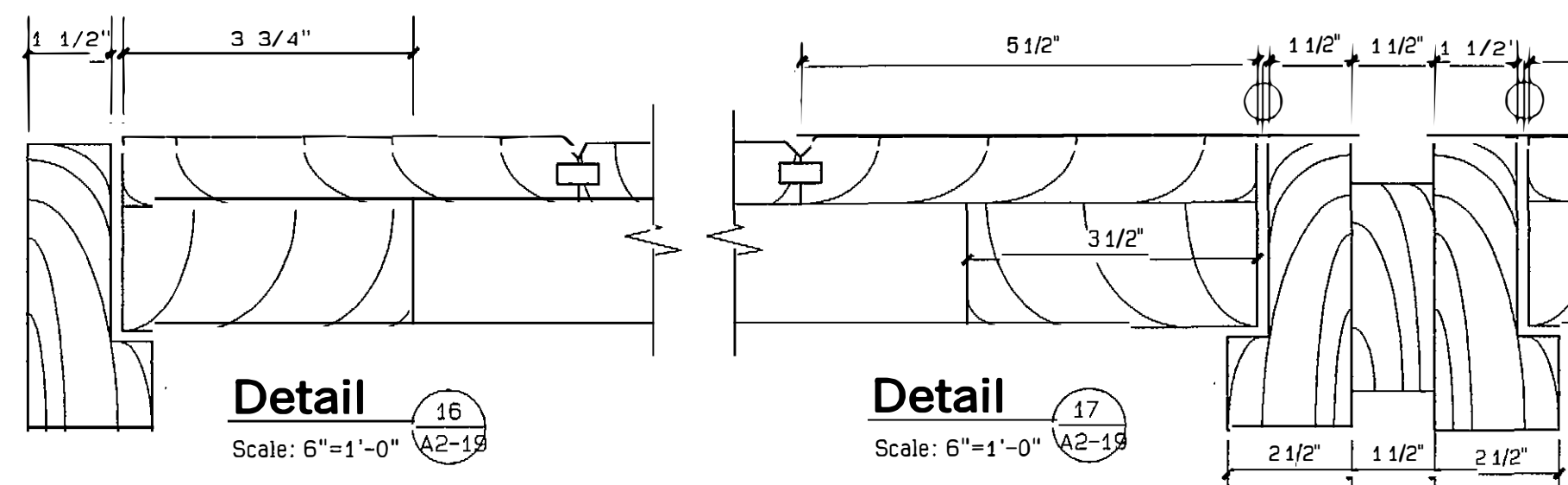


Detail 13
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Detail 14
Scale: 6"=1'-0" A2-19

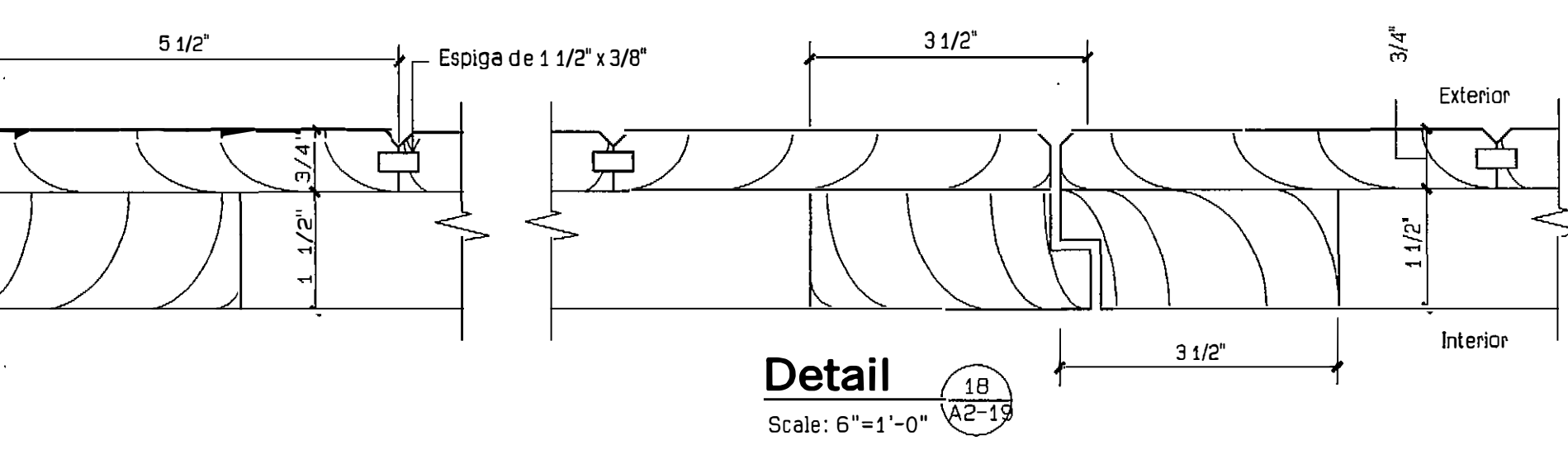


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Detail 16
Scale: 6"=1'-0" A2-19

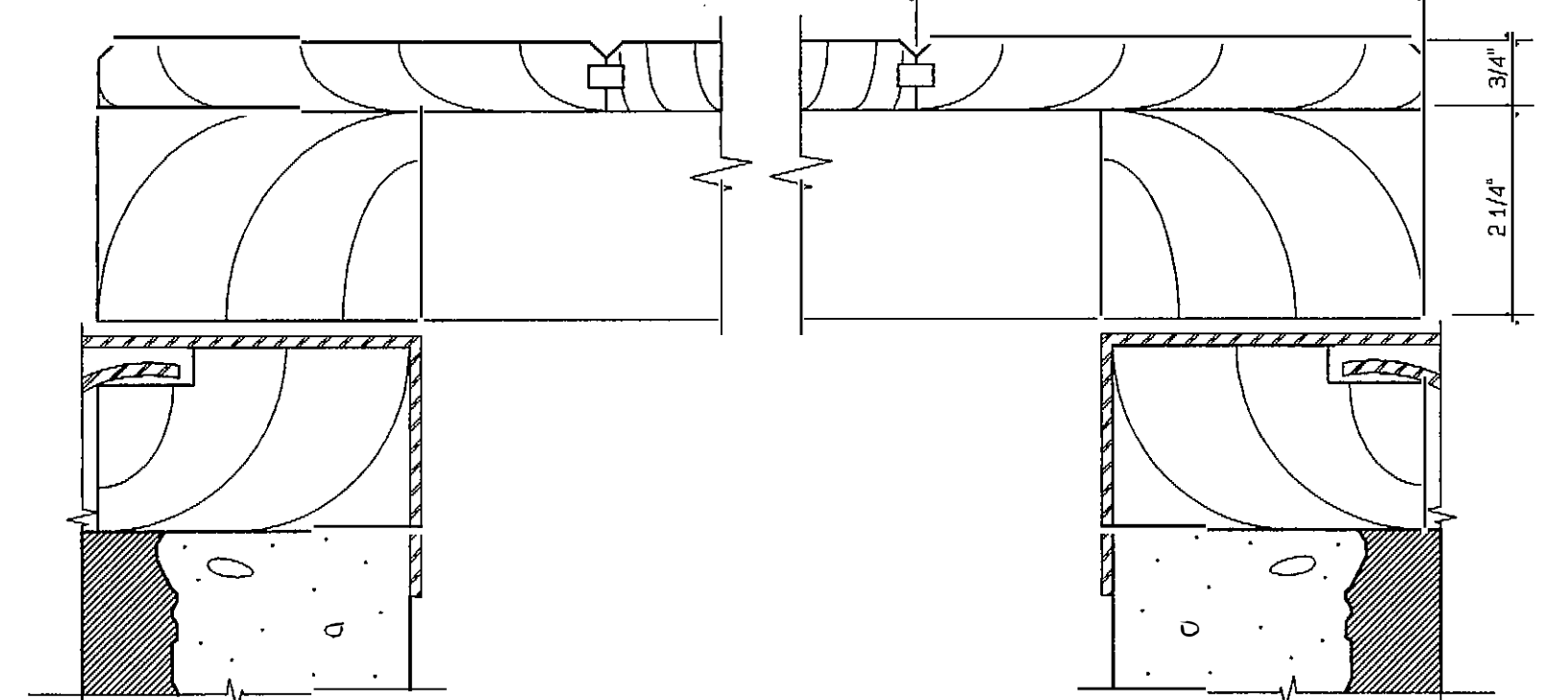
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Detail 18
Scale: 6"=1'-0" A2-19

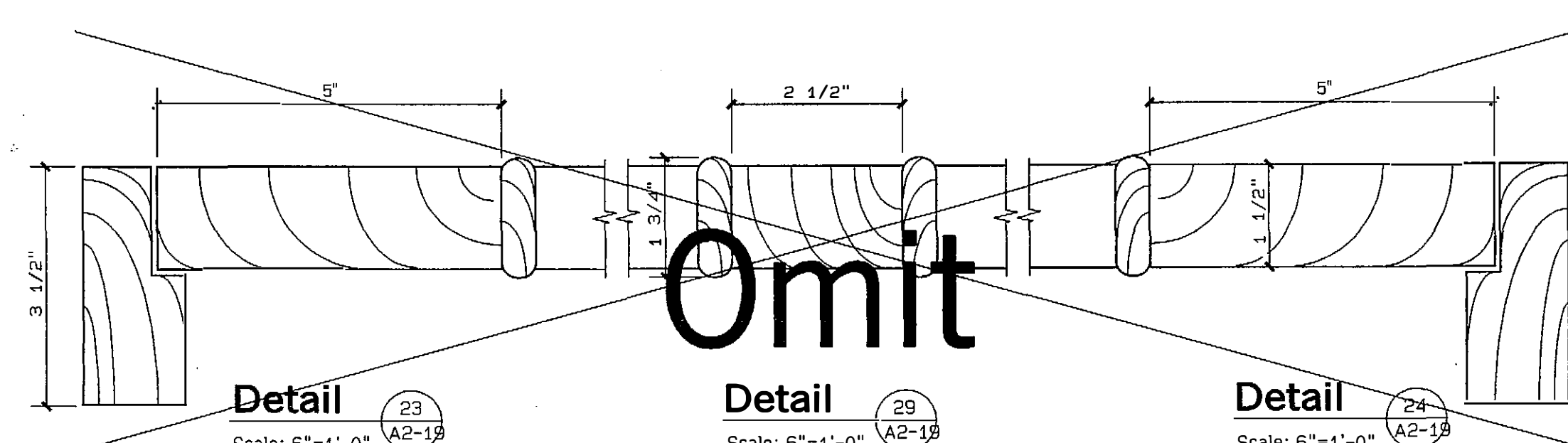
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Detail 20
Scale: 6"=1'-0" A2-19



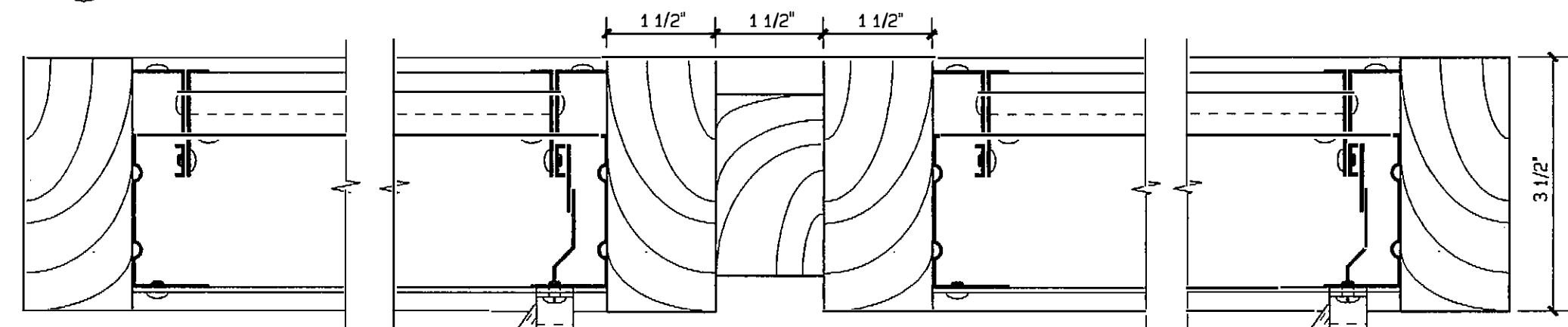
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Detail 22
Scale: 6"=1'-0" A2-19



Detail 23
Scale: 6"=1'-0" A2-19

Detail 24
Scale: 6"=1'-0" A2-19



Detail 25
Scale: 6"=1'-0" A2-19

Detail 26
Scale: 6"=1'-0" A2-19

Detail 27
Scale: 6"=1'-0" A2-19

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	111	181

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE REVISIONS

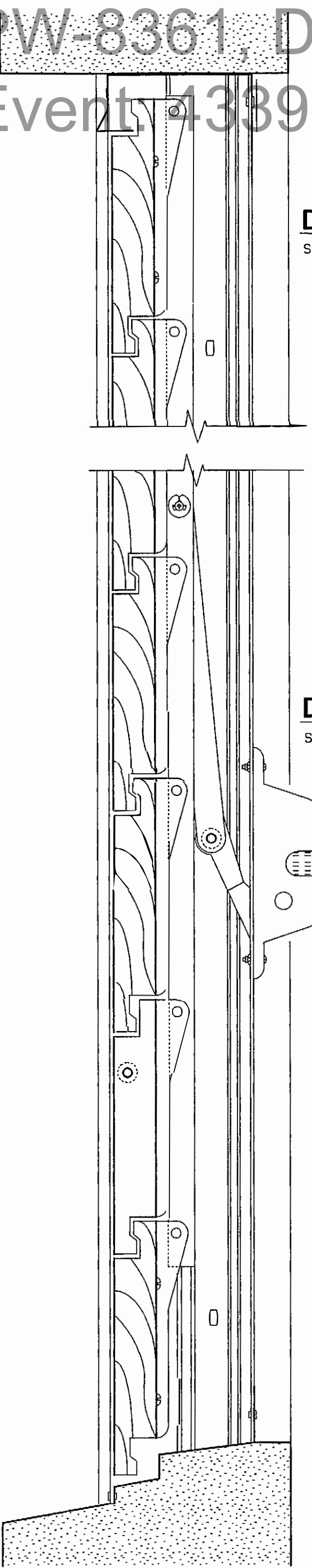
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Door & Window Details
Building # 2

A2
19

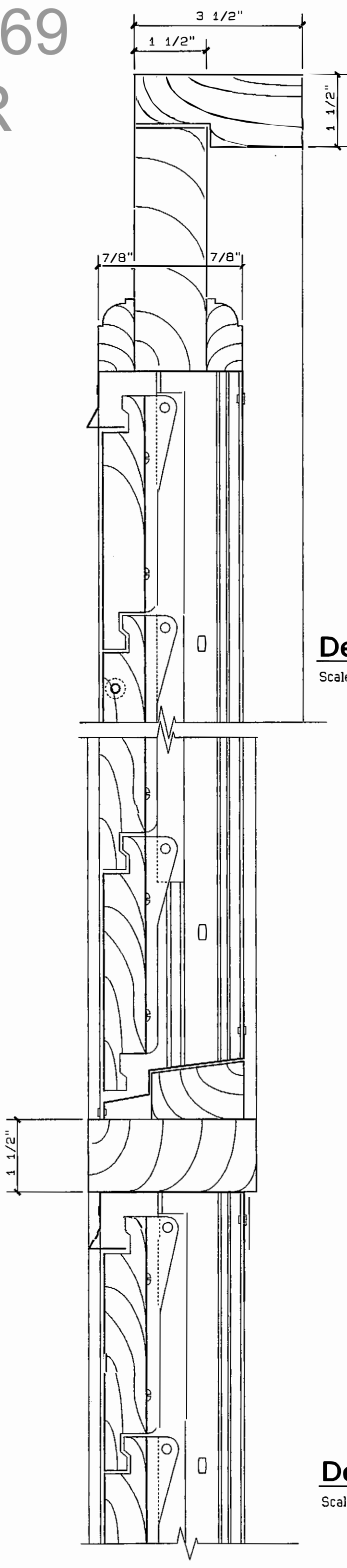
FOR REFERENCE ONLY
PW-8361, DI-220569
Event 4389DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	112	181



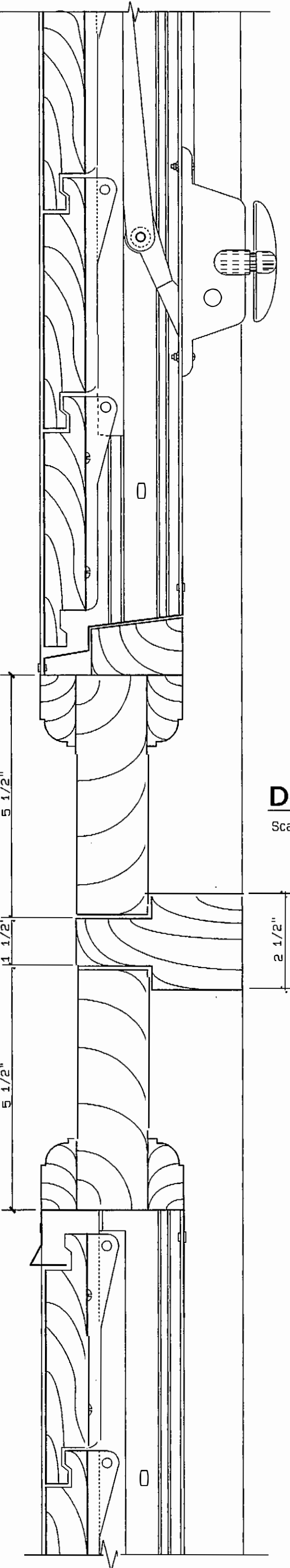
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Detail 2
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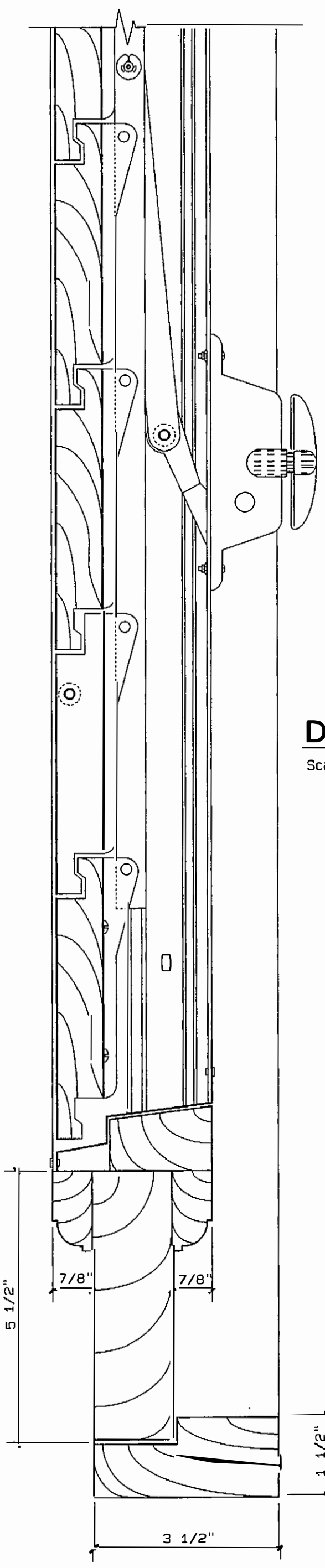


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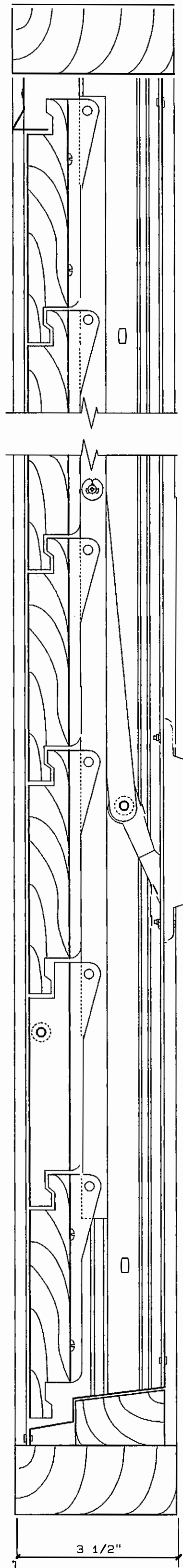
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Detail 4
Scale: 6"=1'-0" A2-20

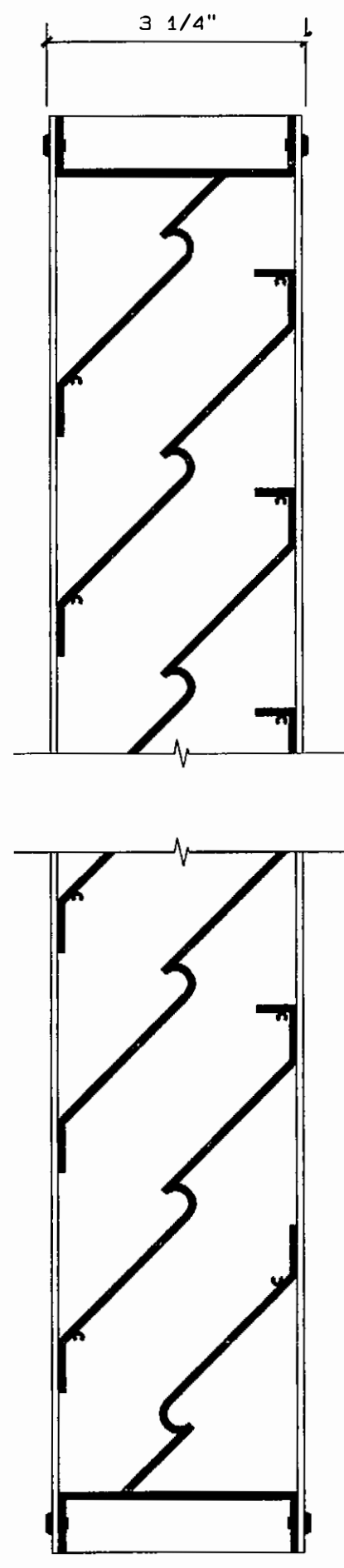


Detail 5
Scale: 6"=1'-0" A2-20



Detail 7
Scale: 6"=1'-0" A2-20

Detail 6
Scale: 6"=1'-0" A2-20



Detail 8
Scale: 6"=1'-0" A2-20

Detail 9
Scale: 6"=1'-0" A2-20

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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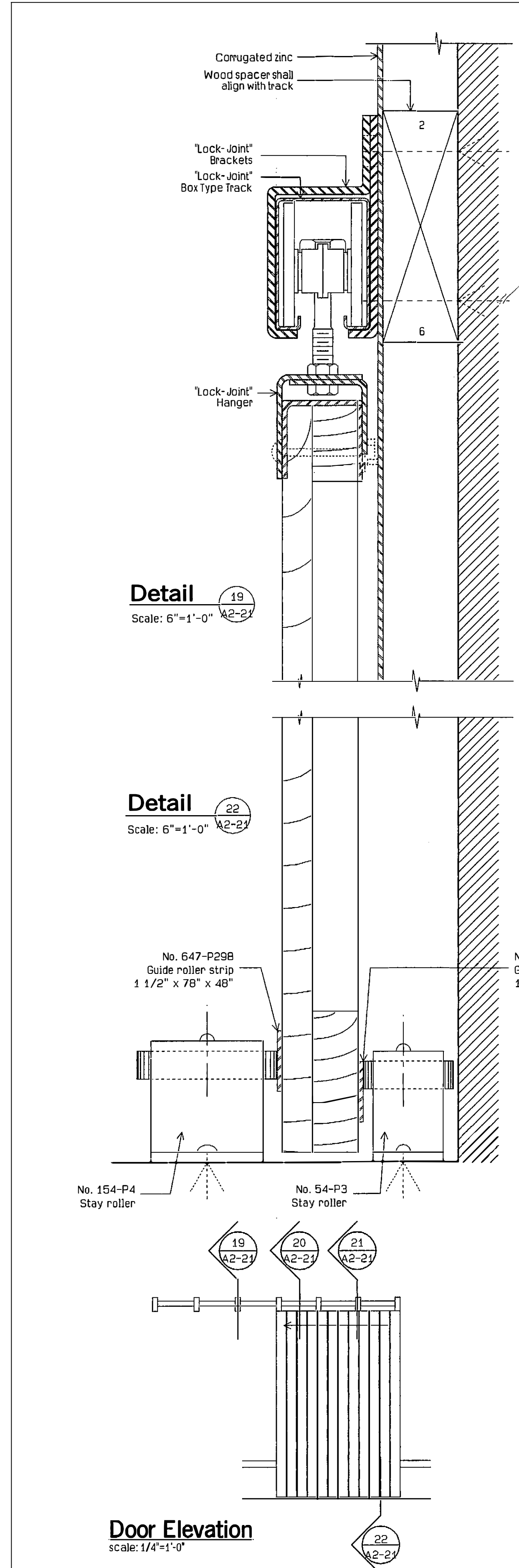
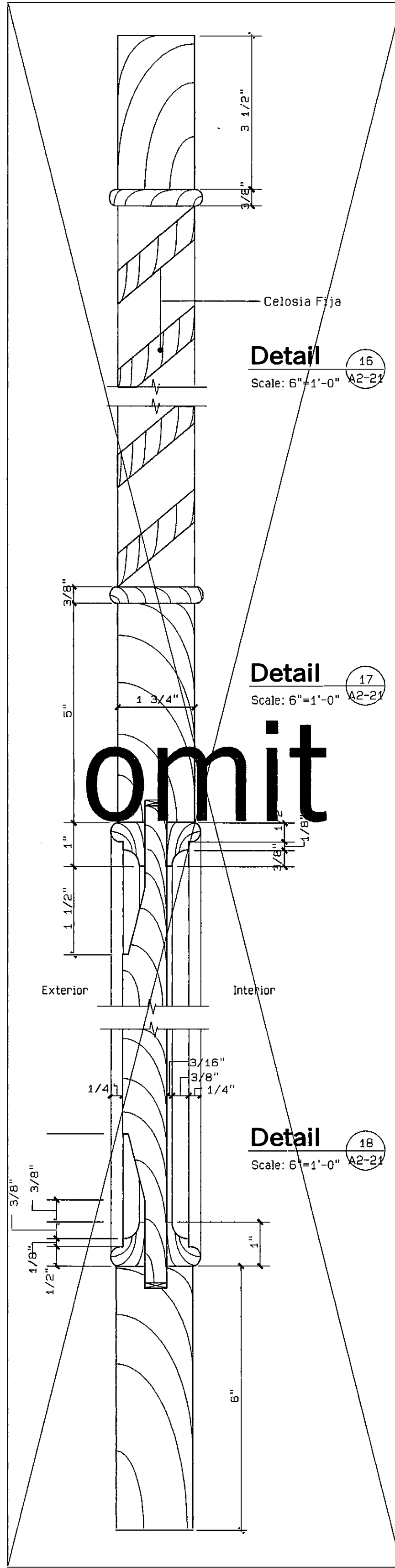
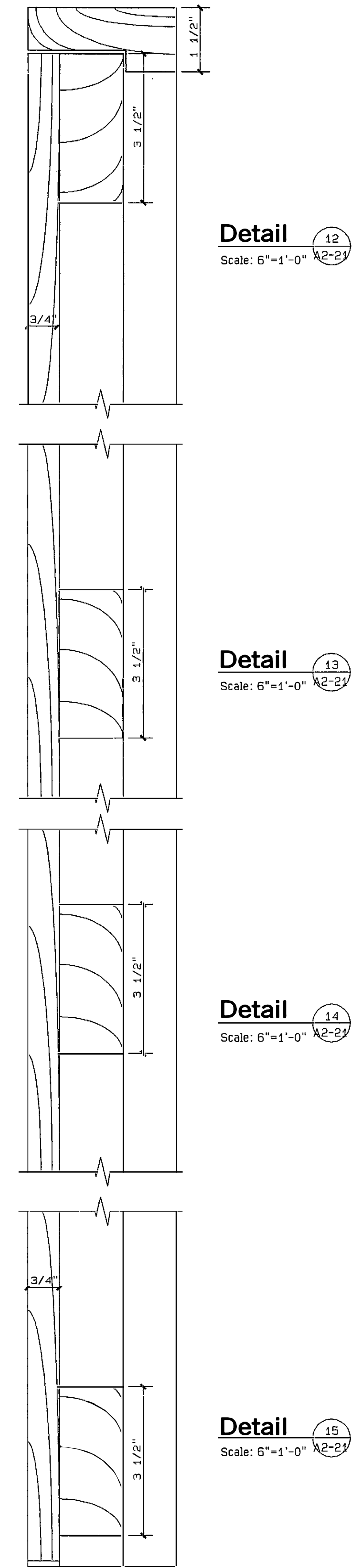
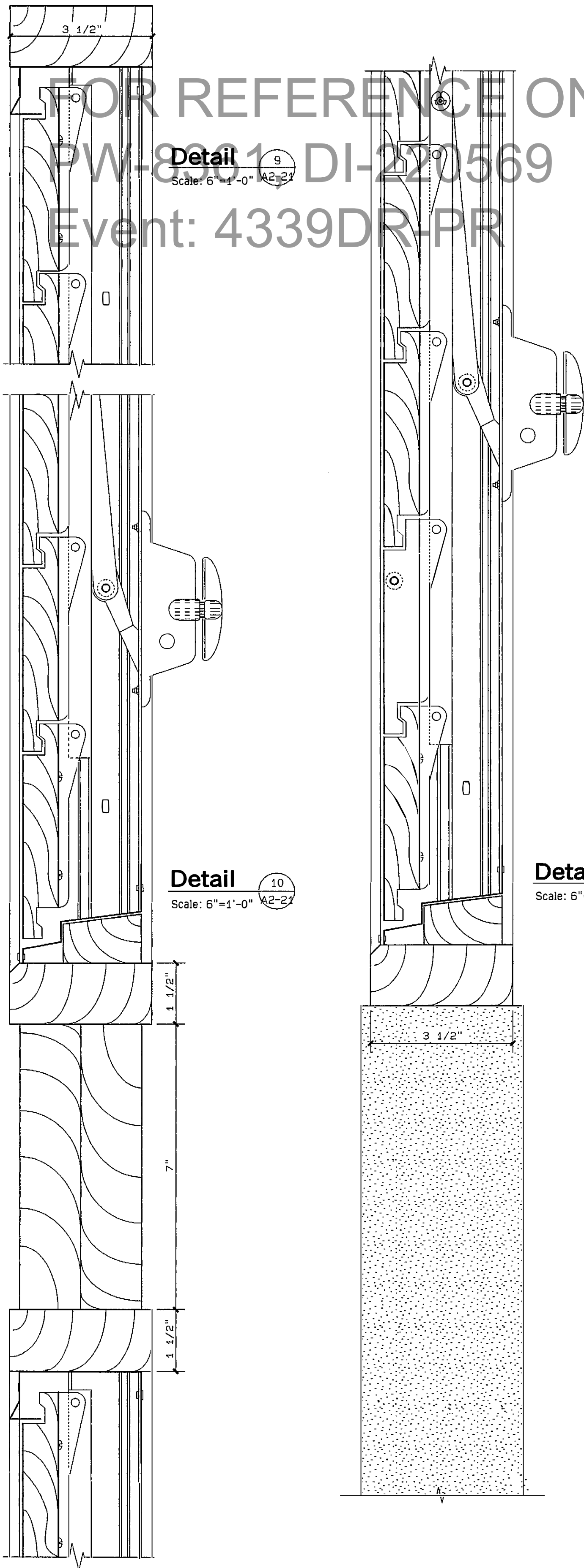
EMBARCADERO LAGO DOS BOCAS
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PUERTO RICO

DATE	REVISIONS

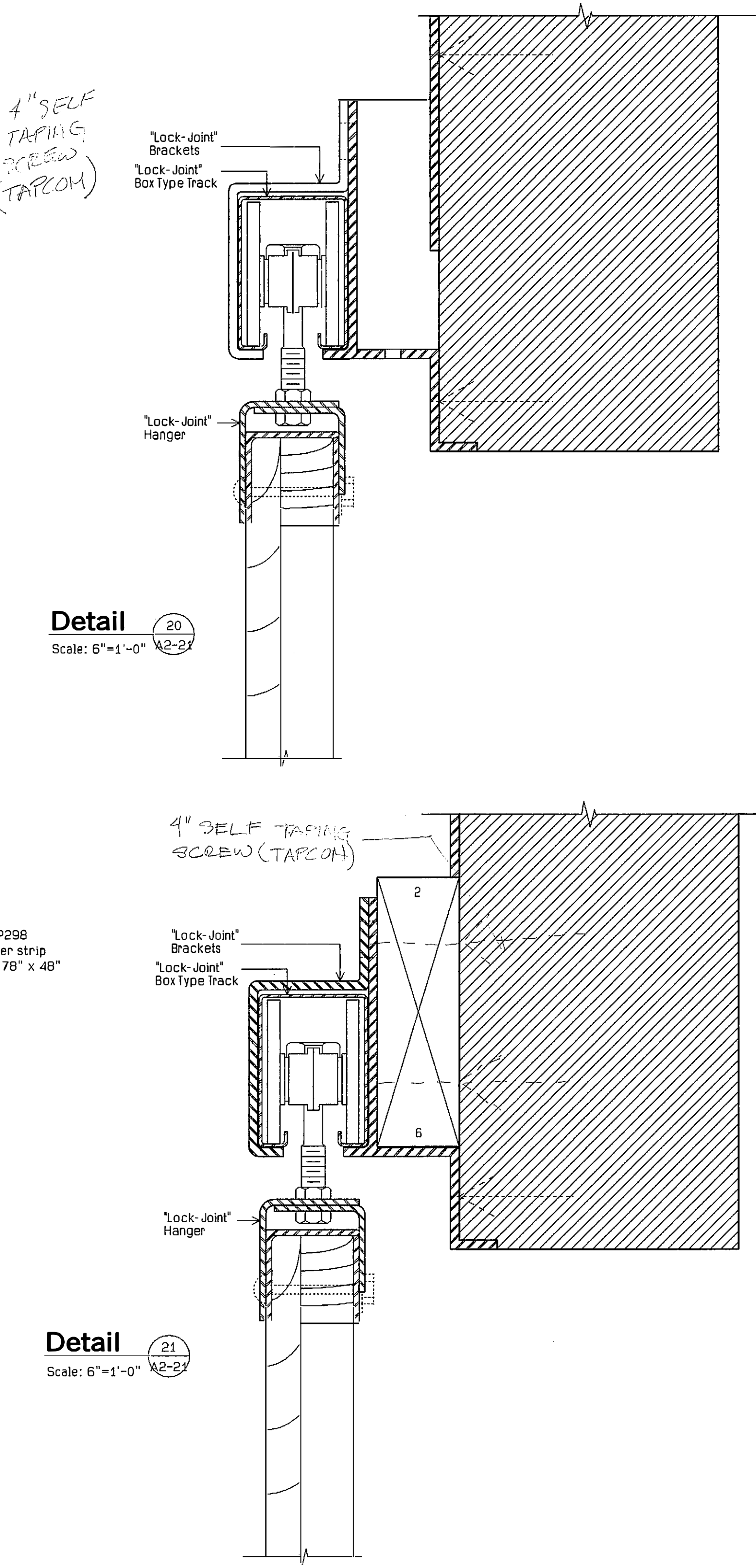
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Window Details
Building #2

A2
20



FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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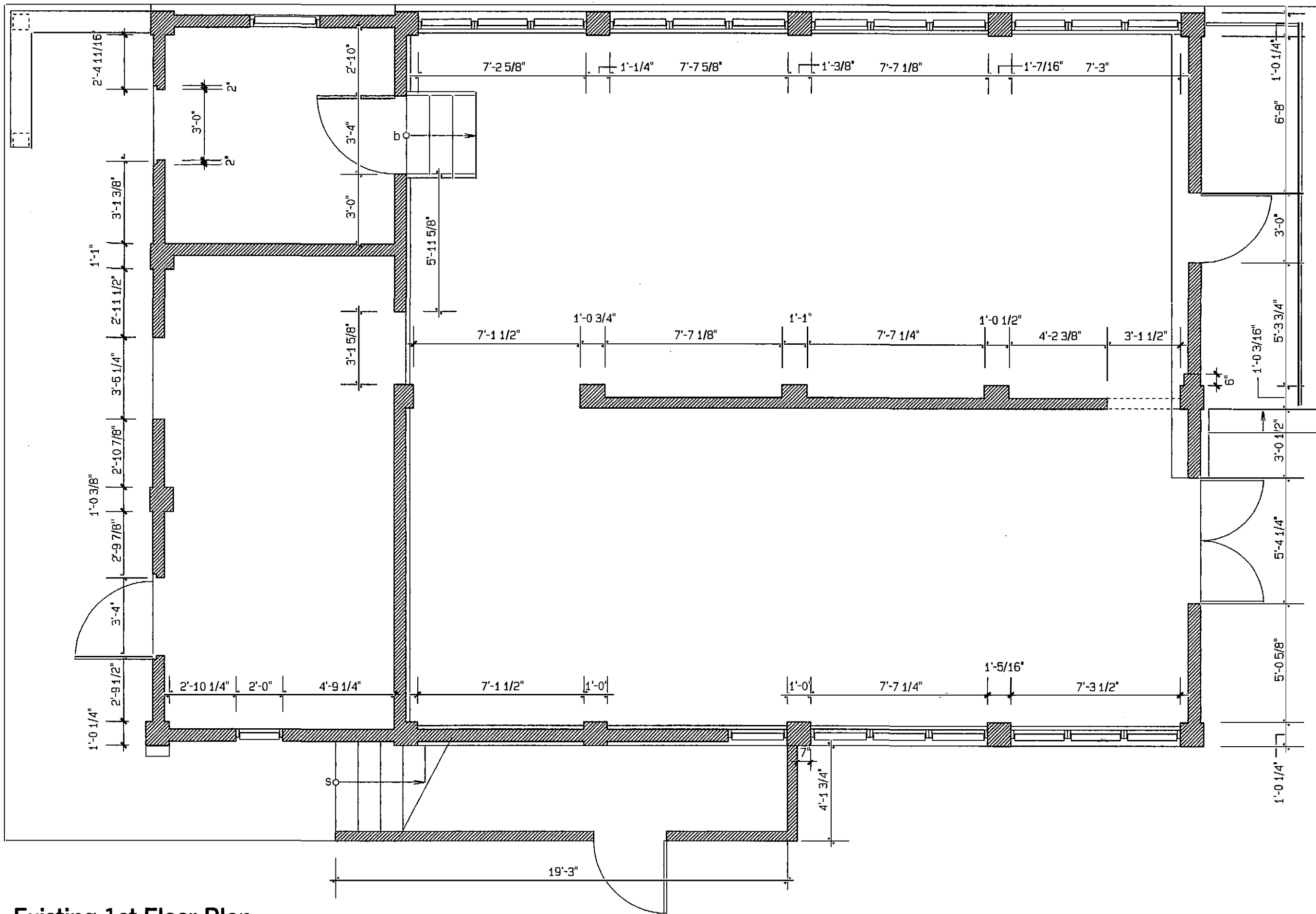
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UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

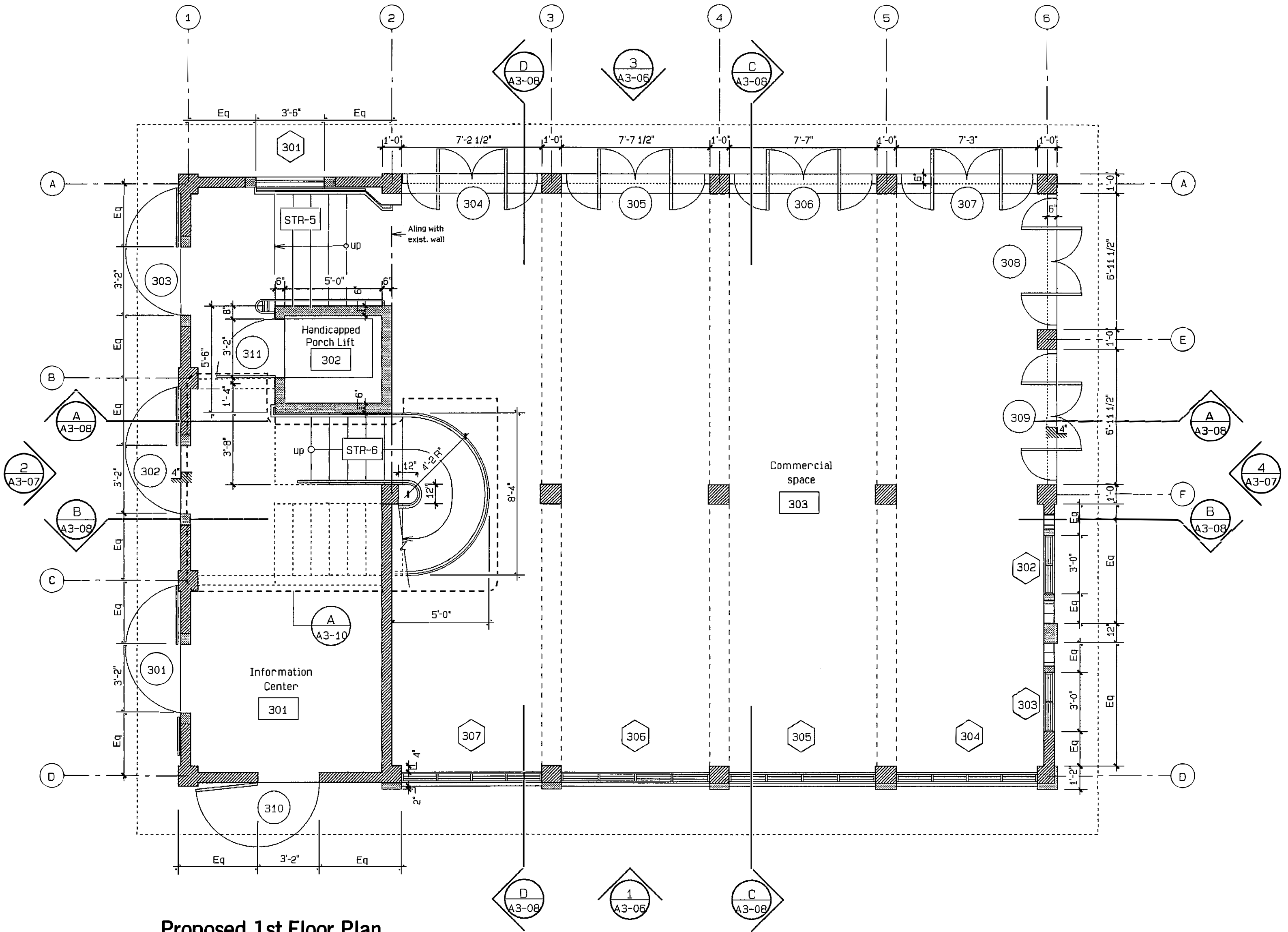
SCALE: 6"=1'-0"	Door & Window Details Building #2	A2 21
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FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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Existing 1st Floor Plan
Building #3
Scale: 1/4"=1'-0"

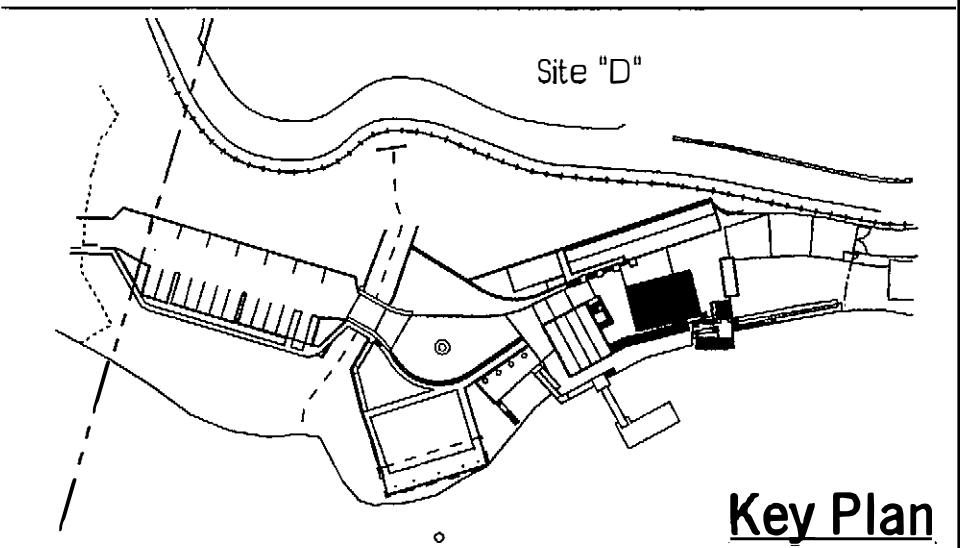


Proposed 1st Floor Plan
Building #3
Scale: 1/4"=1'-0"

SCHEDULE OF FINISHES / BUILDING 3							Notes
NO.	SPACE	FLOOR	WALLS	BASE	CEILING	HEIGHT	
301	Information Center	QT	RPE	QT	RPE	8'-0"	
302	Handicapped Porch-Lift	BF	PP	-	-	18'-5"	
303	Commercial Space	STPC	RPE	TW	RPE	13'-0"	
STR-5	Stair Type 5	STR-5	-	-	-	-	
STR-6	Stair Type 6	STR-6	-	-	-	-	
refer to FINISH DESCRIPTIONS							

General Legend:

- Existing Wall
- New concrete wall/Column
- New Block Wall
- 301 Window Designation
- 301 Door Designation
- 301 Space Number
- 7 See Building Notes



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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PUERTO RICO

DATE REVISIONS

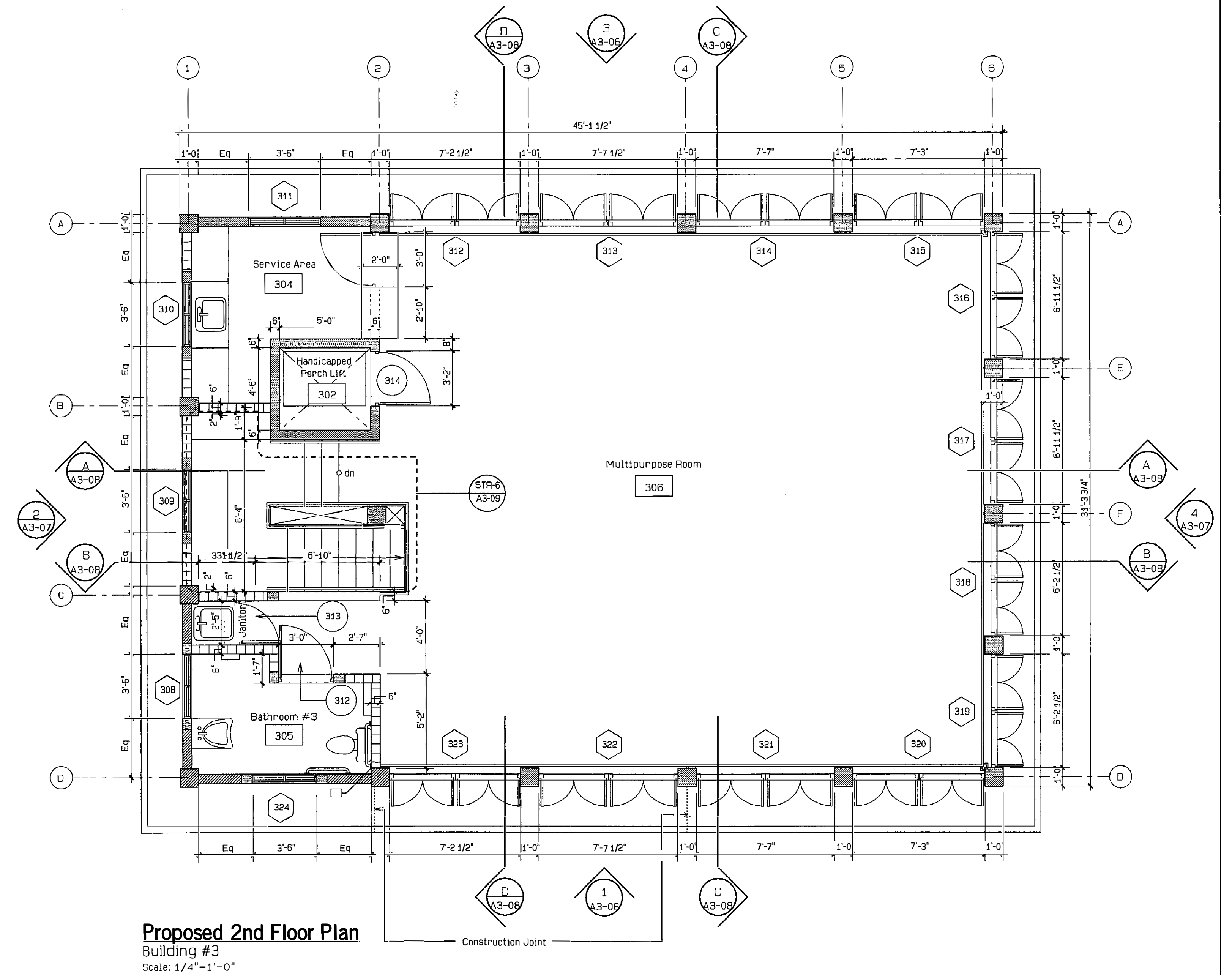
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Existing & New 1st Floor Plan
Building #3

A3
01

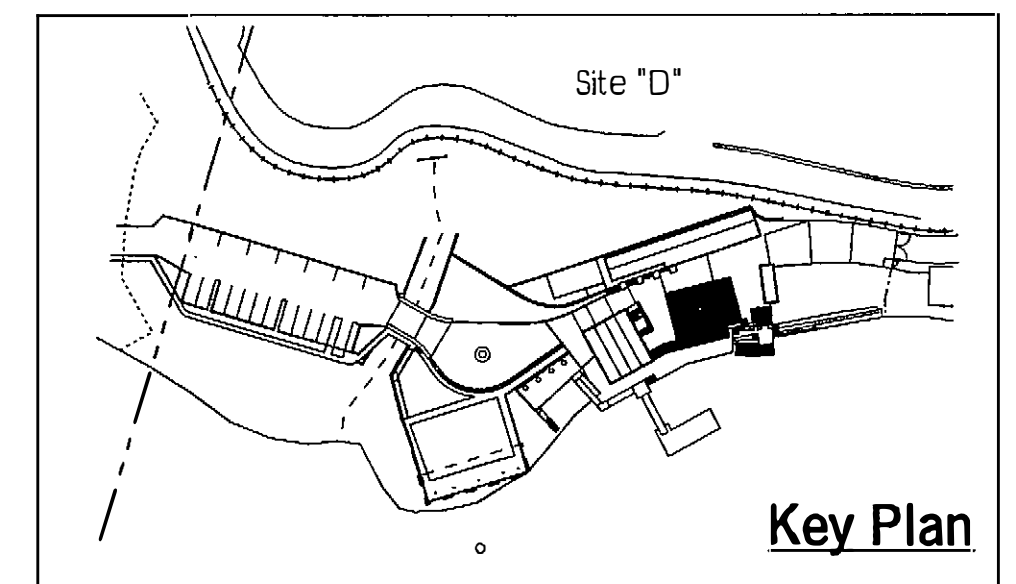
FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

Existing 2nd Floor Plan
Building #3
Scale: 1/4"=1'-0"



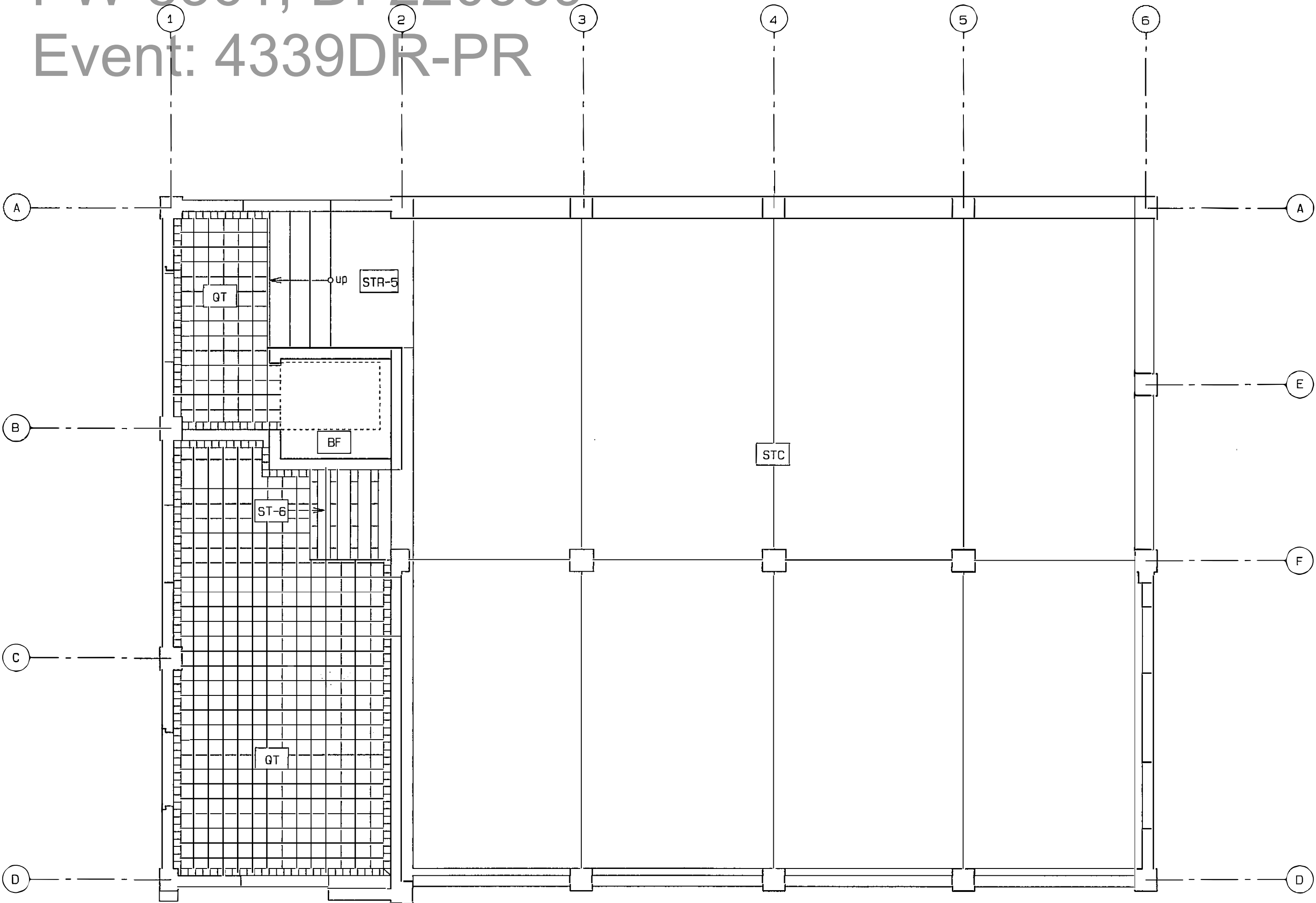
Notes:

New columns to be align
with existing first floor columns
dimensions shall be verify
to comply with the above.

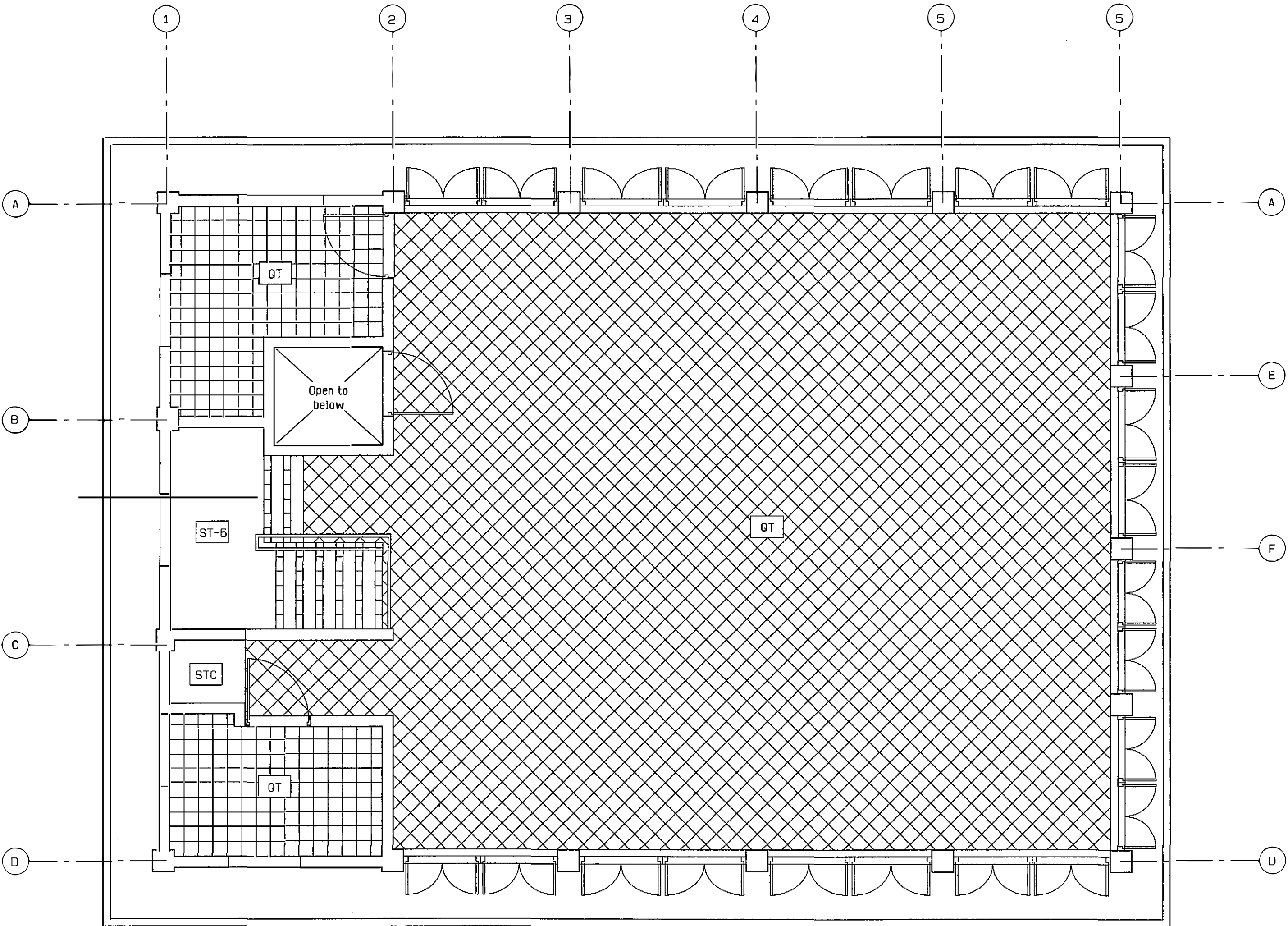


FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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Event: 4339DR-PR



Floor Pattern Plan
1st Floor/ Building #3
Scale: 1/4"=1'-0"



Floor Pattern Plan
2nd Floor/ Building #3
Scale: 1/4"=1'-0"

- Finishes Legend:**
Refer to finishes table and
finishes description
- BF Broom Finish
 - QT Quarry Tile
 - STC Steel Troweled Cement
 - ST-5 Stairs-5
 - ST-6 Stairs-6

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

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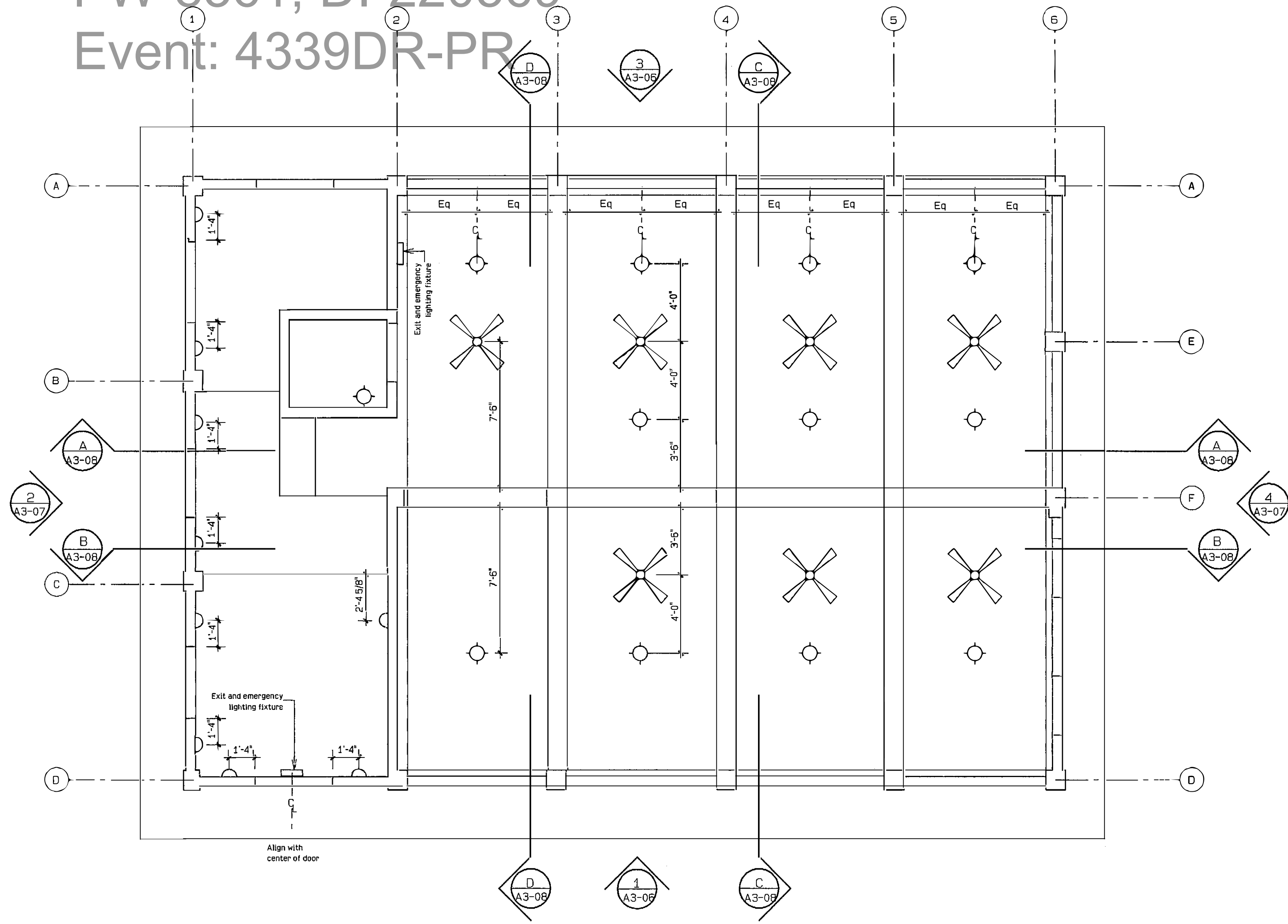
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Floor Pattern Plan
Building #3

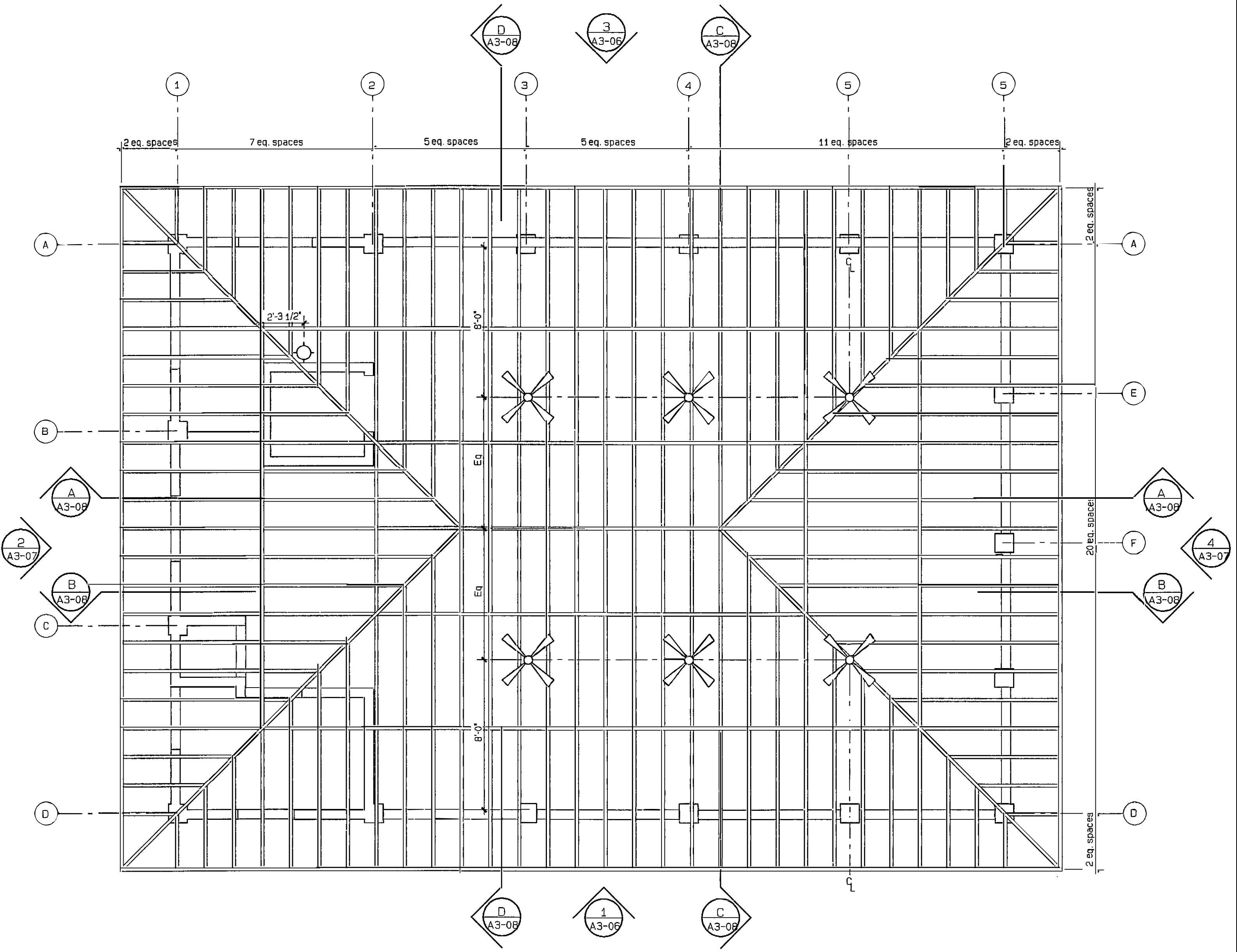
A3
03

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	117	181

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

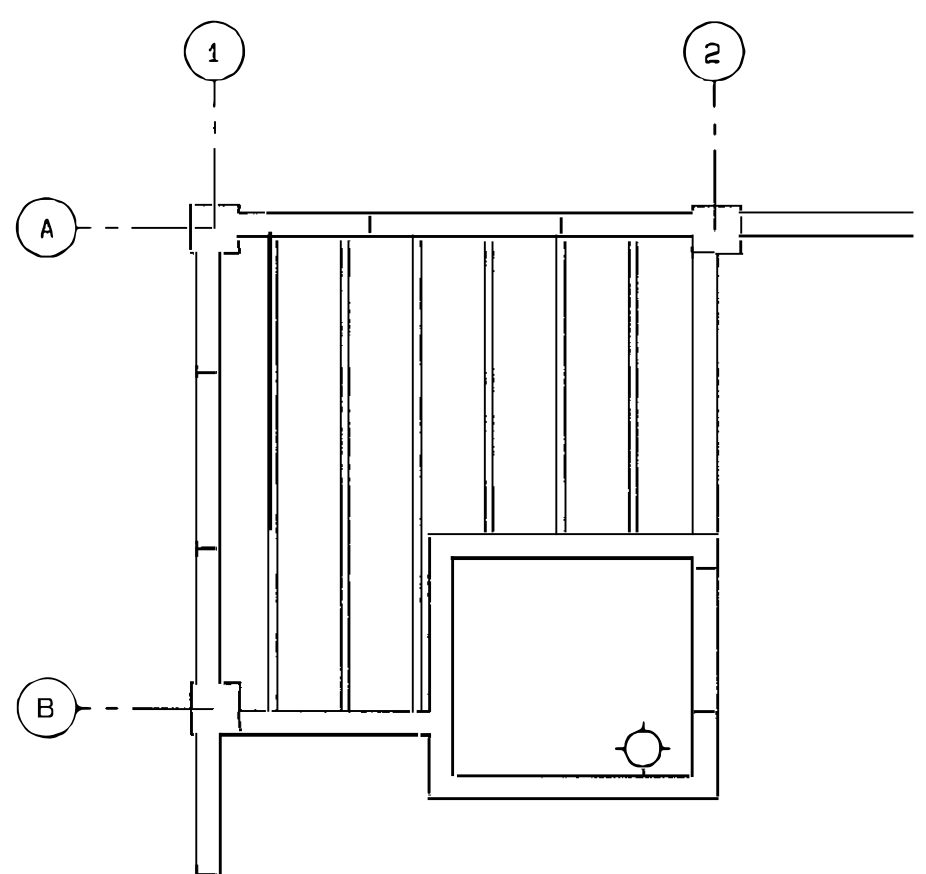


Reflected Ceiling Plan
1st Floor/Building #3
Scale: 1/4"=1'-0"

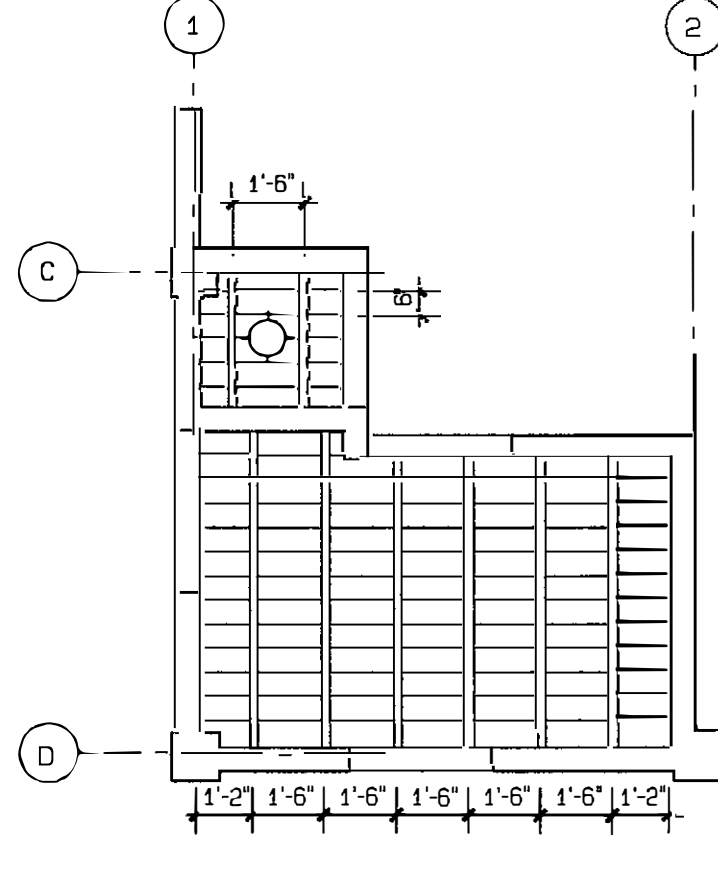


Reflected Ceiling Plan
2nd Floor/Building #3
Scale: 1/4"=1'-0"

Note: For beams and girders sections,
refer to structural schedule, framing
plan and detail drawings on sheet S-3.1



Reflected Ceiling Plan
2nd Floor/Service Area
Scale: 1/4"=1'-0"



Reflected Ceiling Plan
2nd Floor/Restroom Area
Scale: 1/4"=1'-0"

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

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SCALE:1/4":1'-0"

Reflected Ceiling Plans
Building #3

A3
04

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

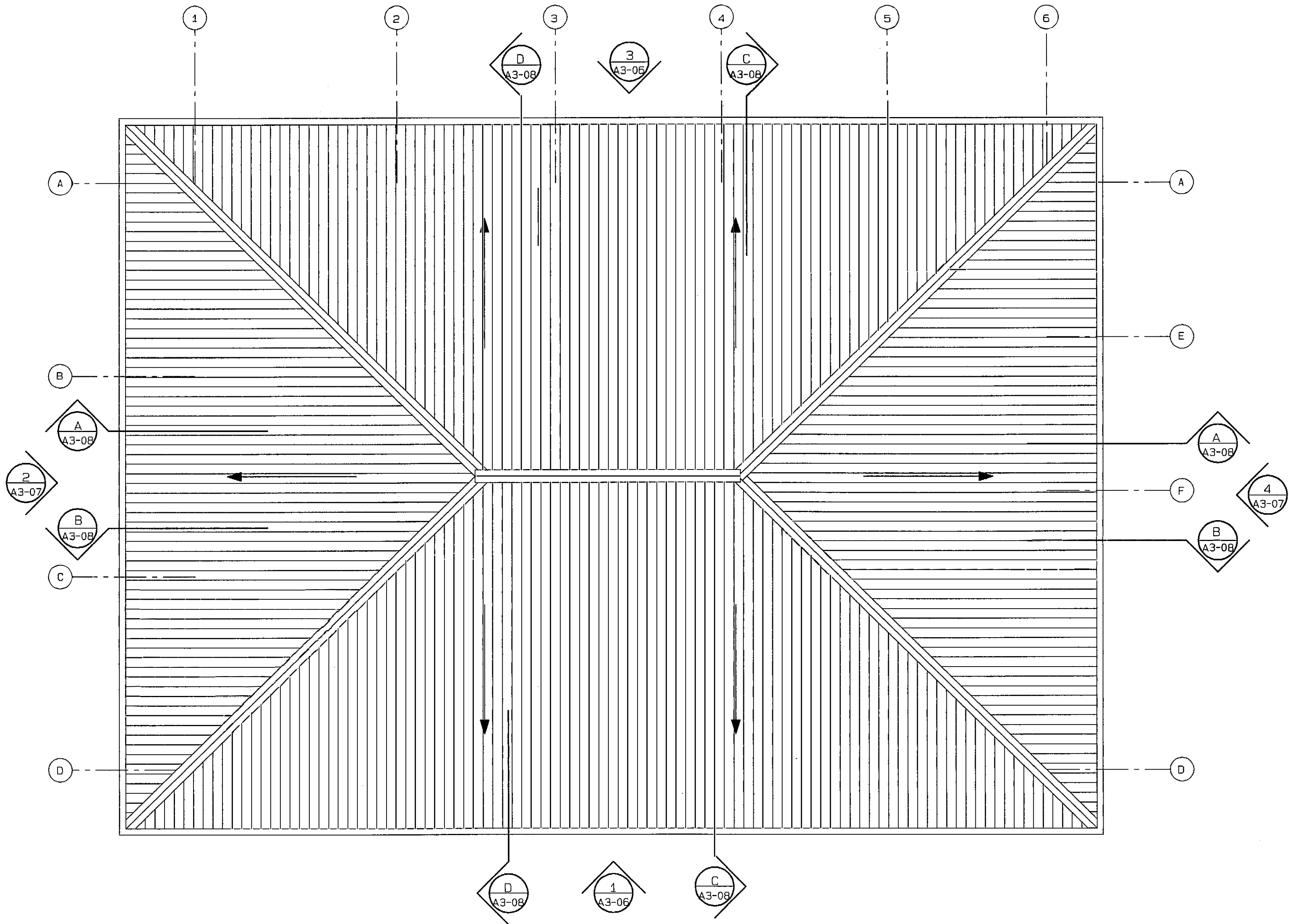
FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	118	181

STEEL DECK (ROOF) NOTES / EMBARCADERO LAGO DOS BOCAS
Building No. 3

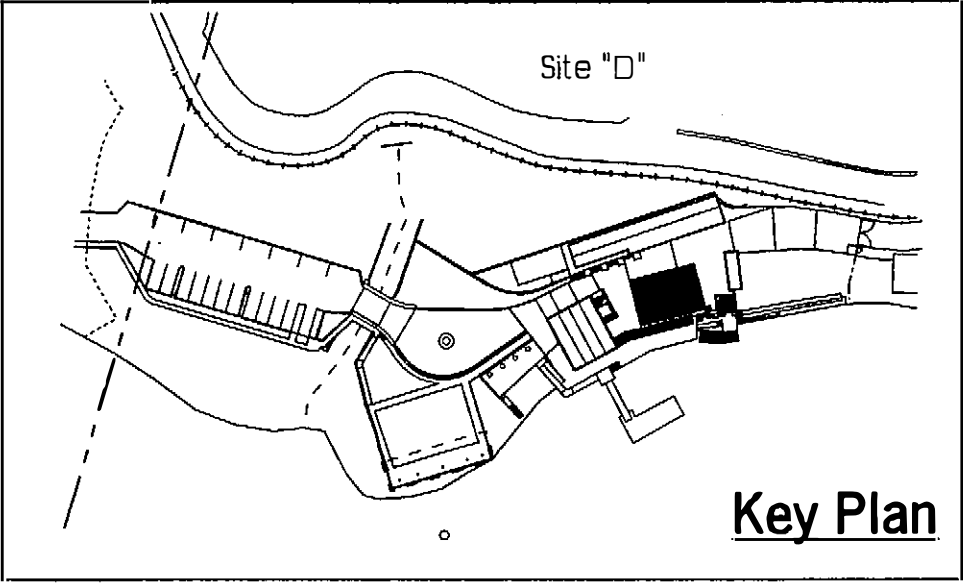
1. Galvanized steel roof deck shall be type "S" deck, corrugated structural metal sheathing as fabricated by BERRIDGE MANUFACTURING COMPANY, 1720 Maury Street, Houston, Texas 77026, phone numbers (800) 231-8127 / (713) 223-4971 or approved equal.

The general specifications are:

- Panel thickness - 24 gauge
 - Panel steel conforms to ASTM A446-85 Grade C.
 - The exterior finish shall be full-strength KYNAR 500, Galvalume fluorocarbon coating. Top side film thickness shall be 0.70 to 0.90 mil over a 0.25 to 0.30 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil. The interior finish of this material shall be coated with a primer with a minimum dry film thickness of 0.25 mil.
 - Color shall be: Terra Cotta.
2. All pertinent details of ridges, flashings and channels for steel roofs will be submitted by the Contractor and/or manufacturer of the galvanized steel roof. These will be approved by the Architect before proceeding to their fabrication.
3. All steel roofing shall be connected to ground (grounded) to conform with Article 250 from the National Electric Code, 1993 edition.
4. The existing concrete overhang at the second floor level shall be painted with elastomeric paint as specified in Technical Specifications number 09900 - Painting, section 1.11, paragraph C.



Roof Plan
Building #3
Scale: 1/4"=1'-0"



PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE:1/4":1'-0"

Roof Plan
Building #3

A3
05

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	119	181

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



Existing Elevation "1"
Building #3
Scale: 1/4"=1'-0"



Existing Elevation "3"
Building #3
Scale: 1/4"=1'-0"



Proposed Elevation "1"
Building #3
Scale: 1/4"=1'-0"



Proposed Elevation "3"
Building #3
Scale: 1/4"=1'-0"

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

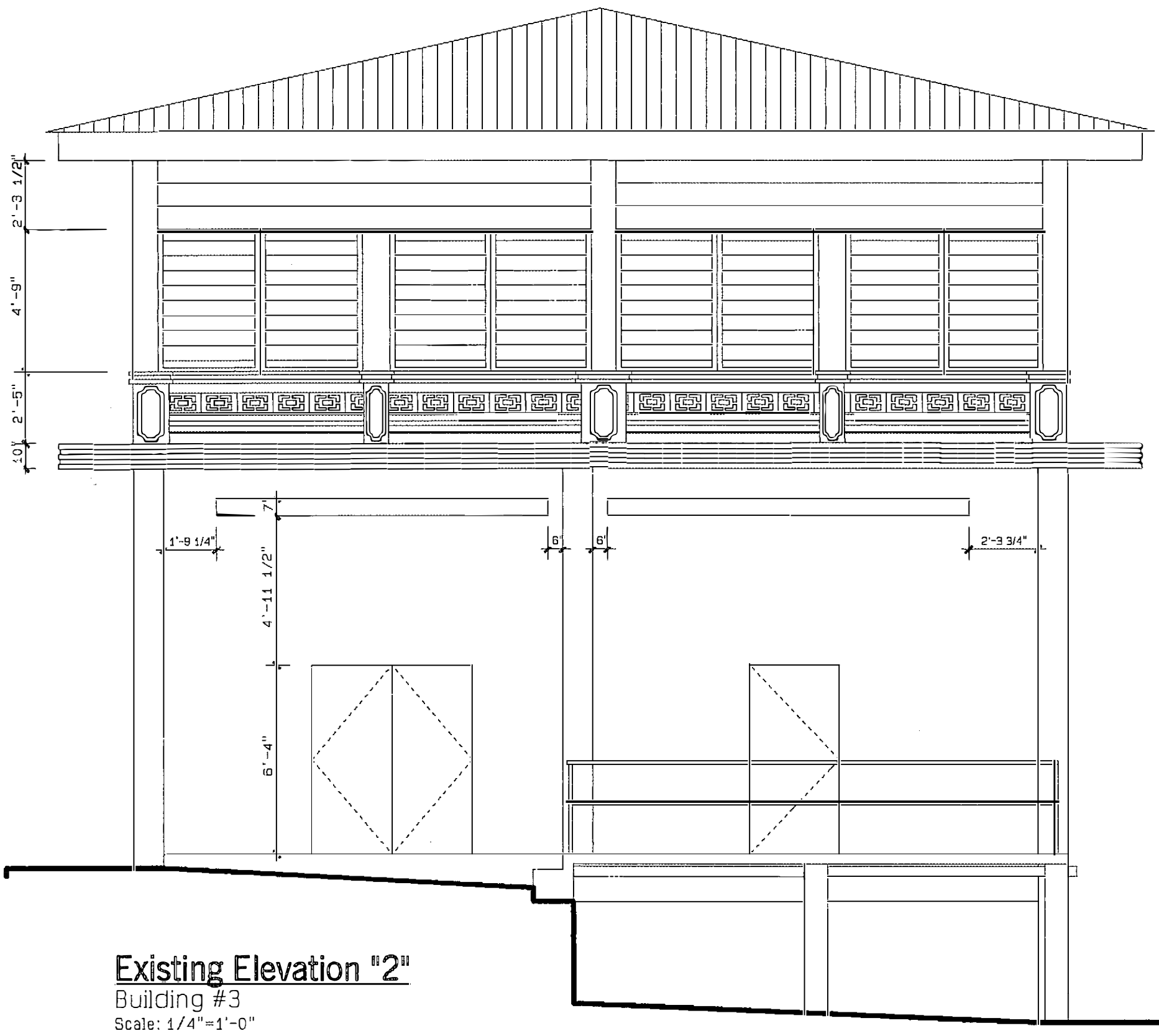
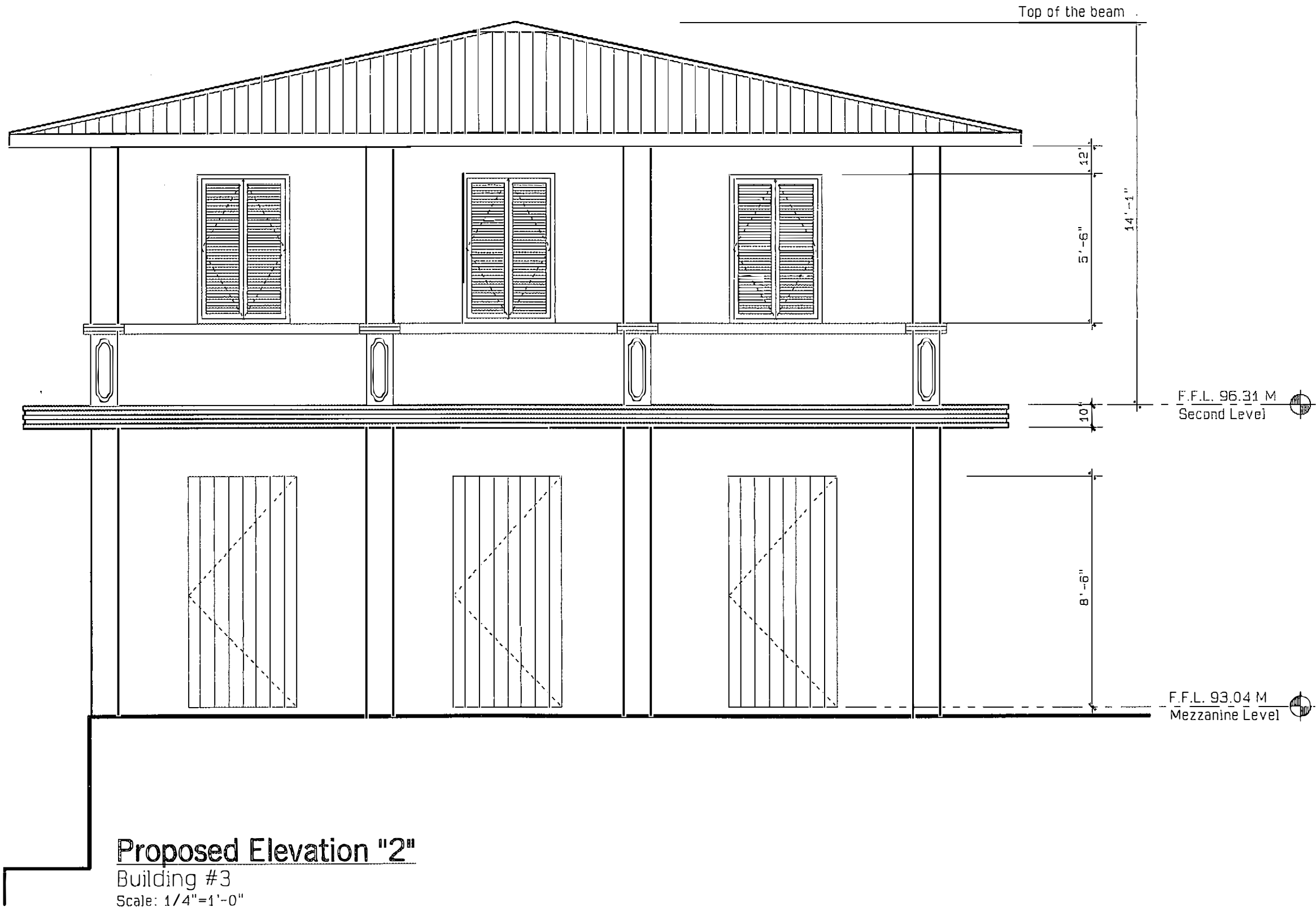
SCALE:1/4"=1'-0"

Existing & New Elevations
Building #3

A3
06

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	120	181

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Event: 4339DR-PR



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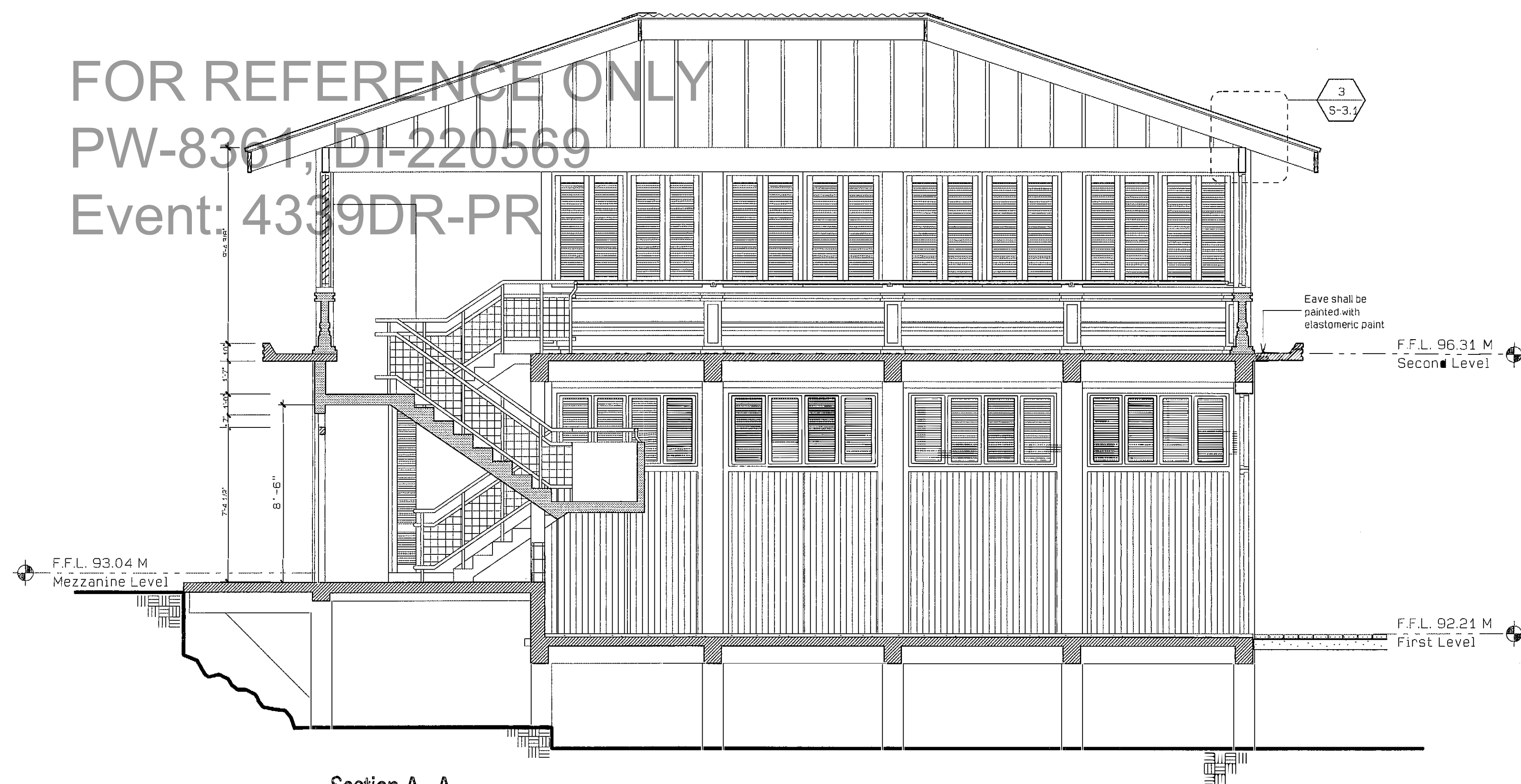
DATE	REVISIONS

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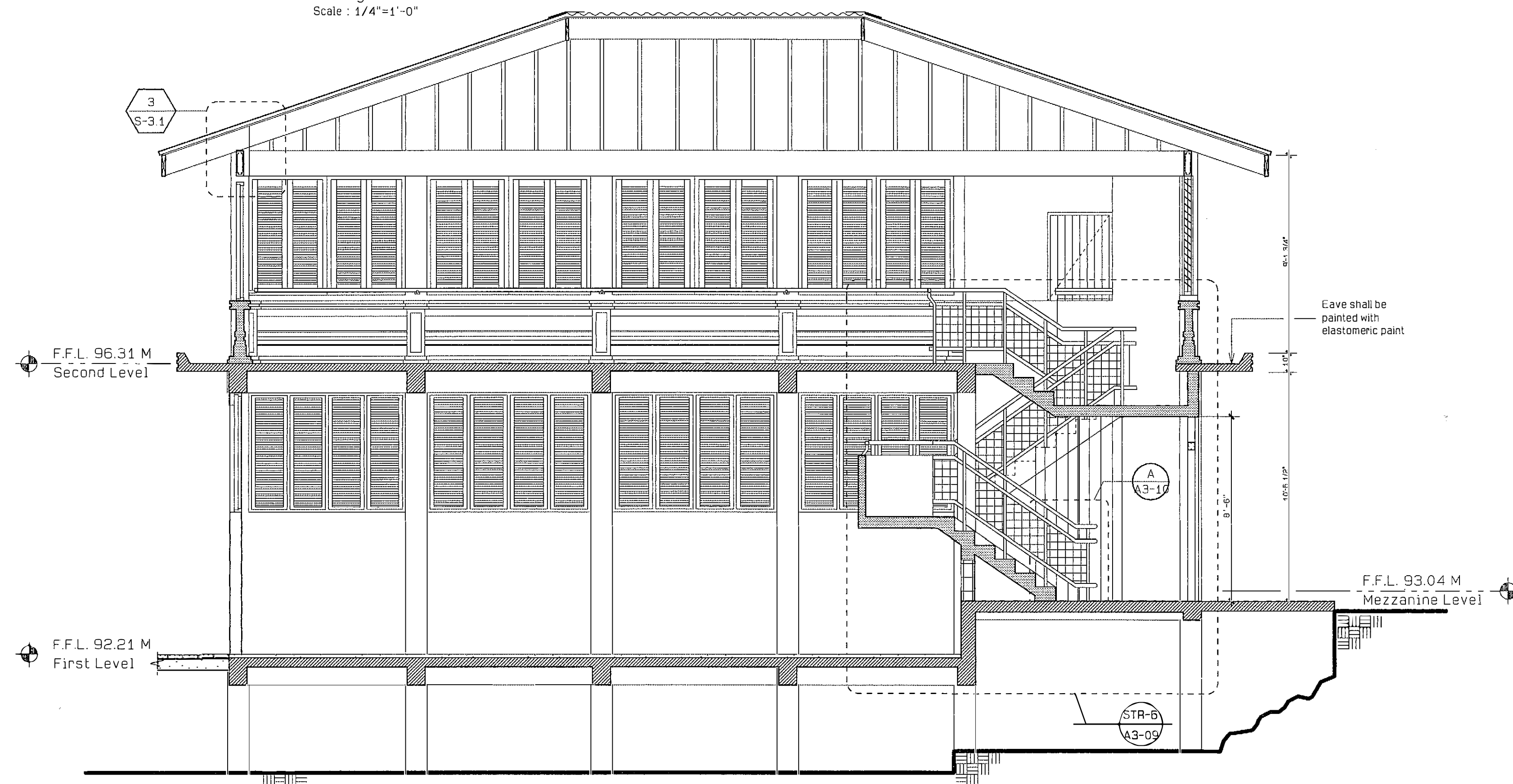
Existing & New Elevations
Building #3

A3
07

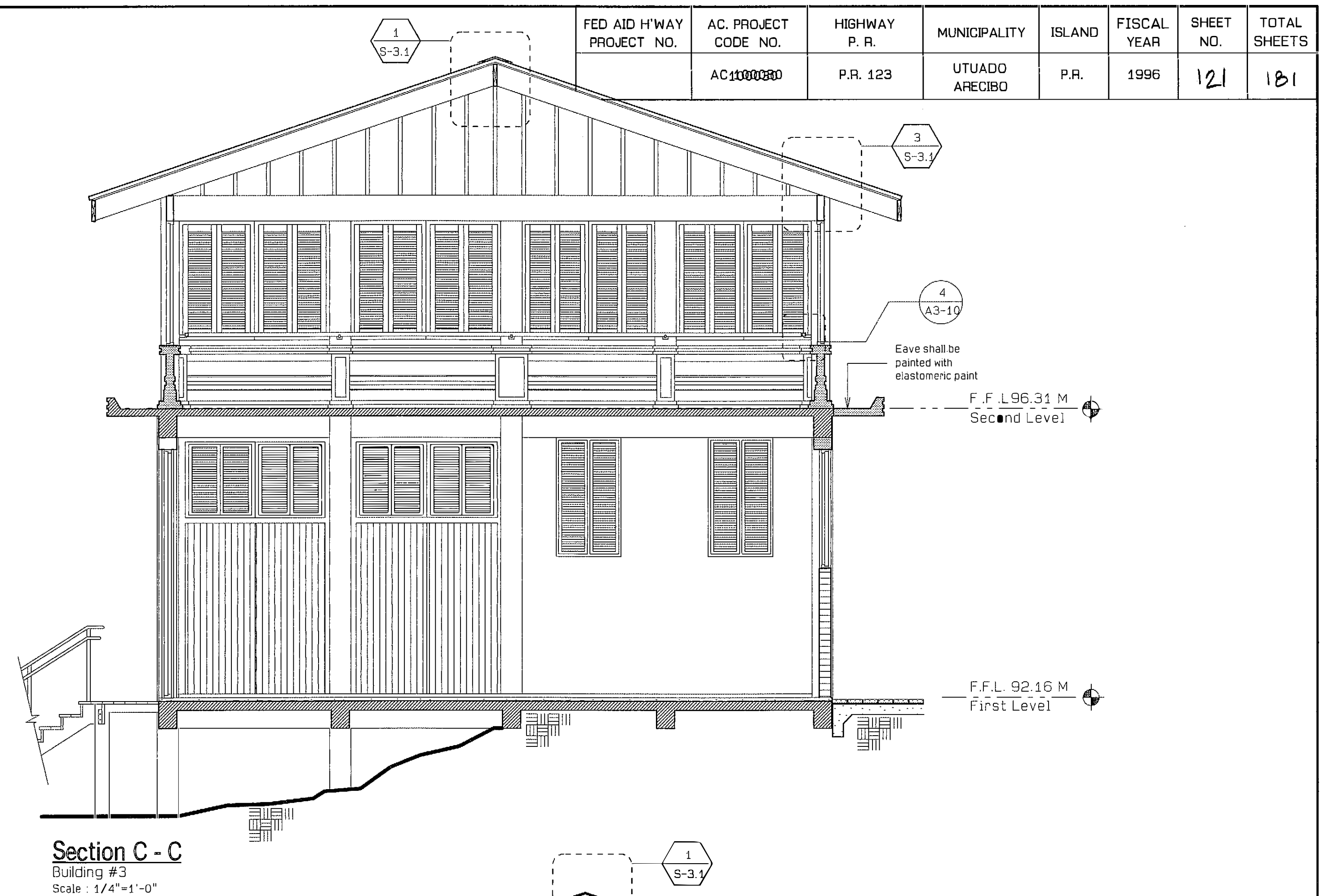
FOR REFERENCE ONLY
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Event: 4339DR-PR



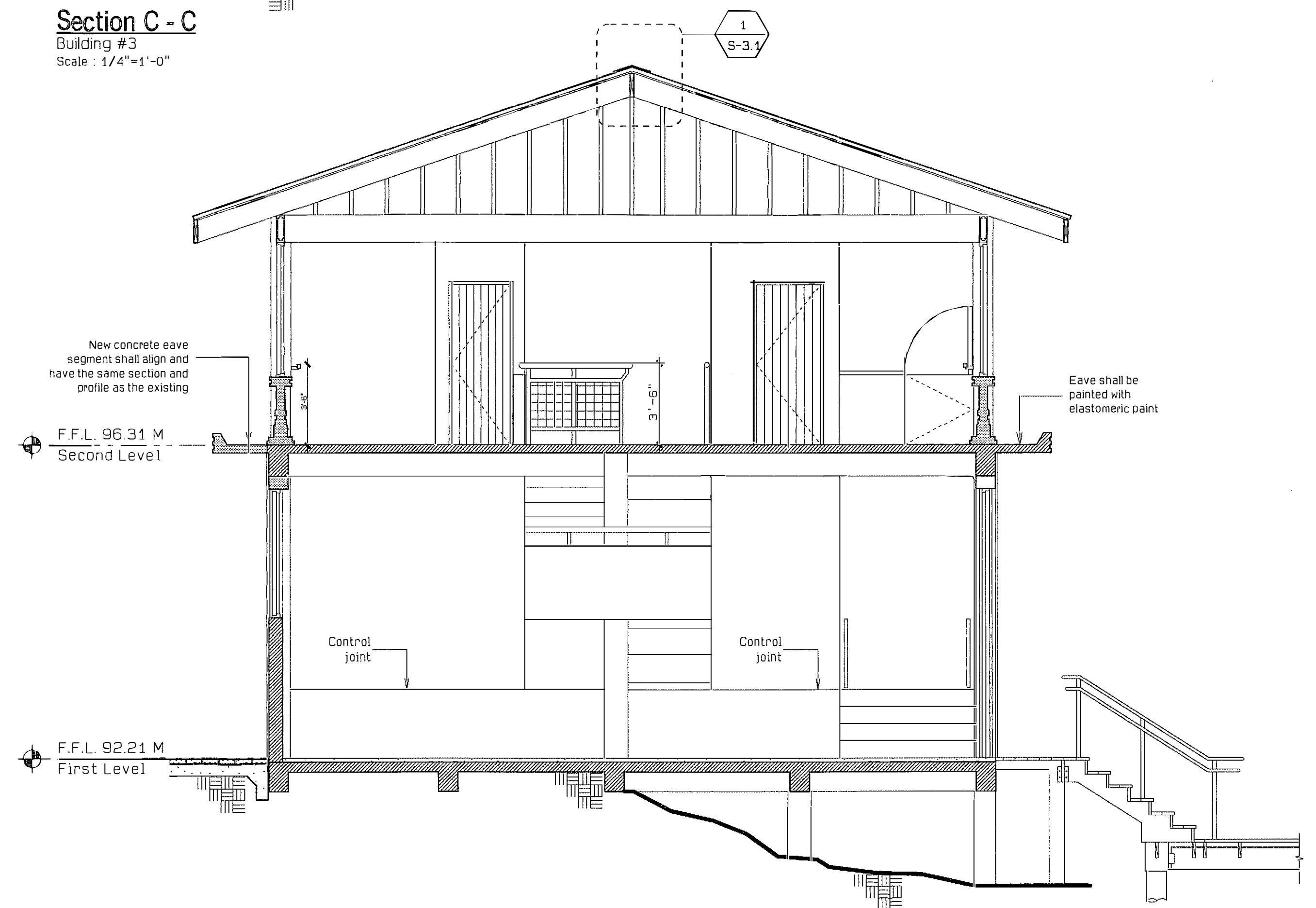
Section A - A
Building #3
Scale : 1/4"=1'-0"



Section B - B
Building #3
Scale : 1/4"=1'-0"



Section C - C
Building #3
Scale : 1/4"=1'-0"



Section D - D
Building #3
Scale : 1/4"=1'-0"

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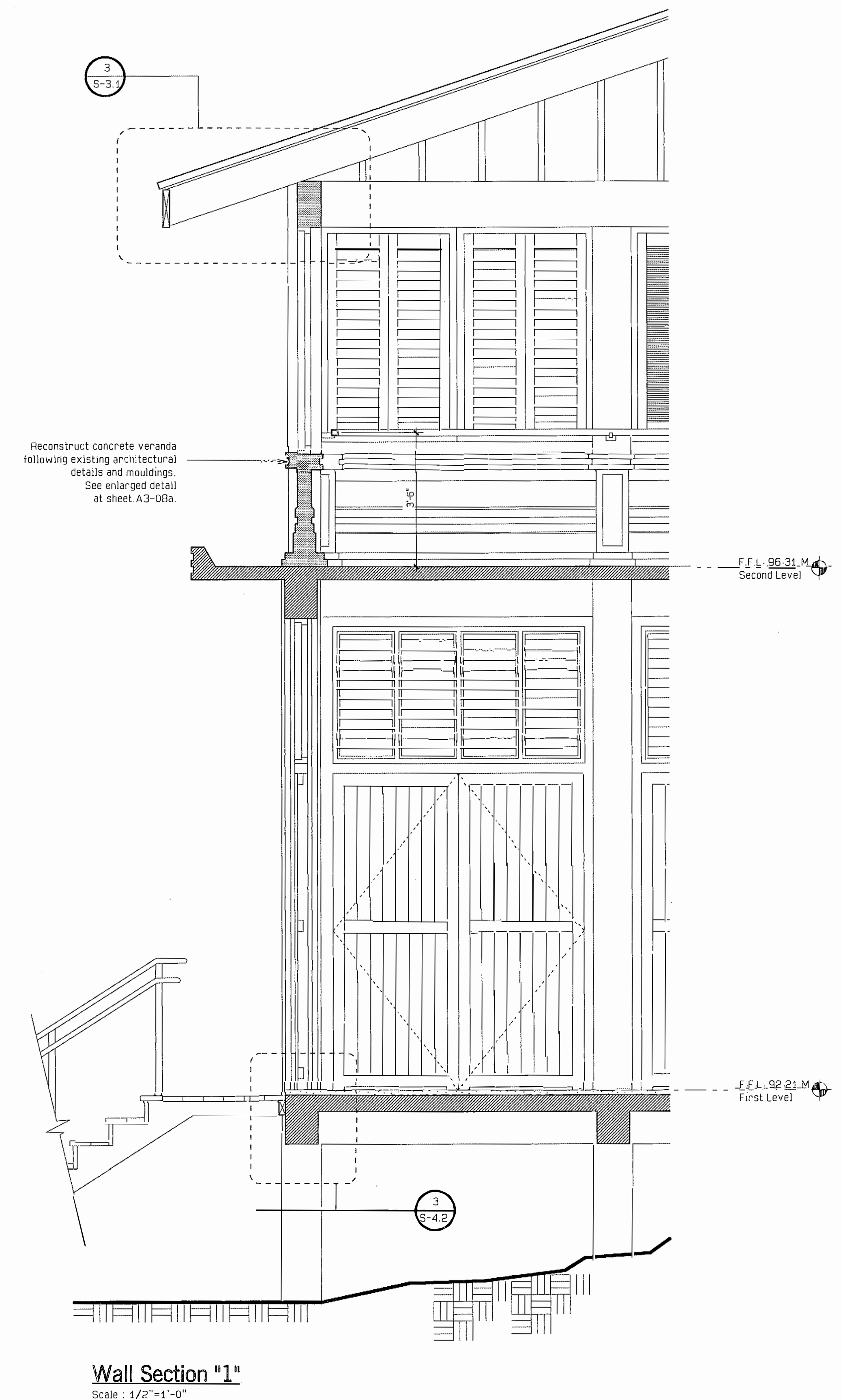
DATE REVISIONS

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

Sections
Building #3

A3
08

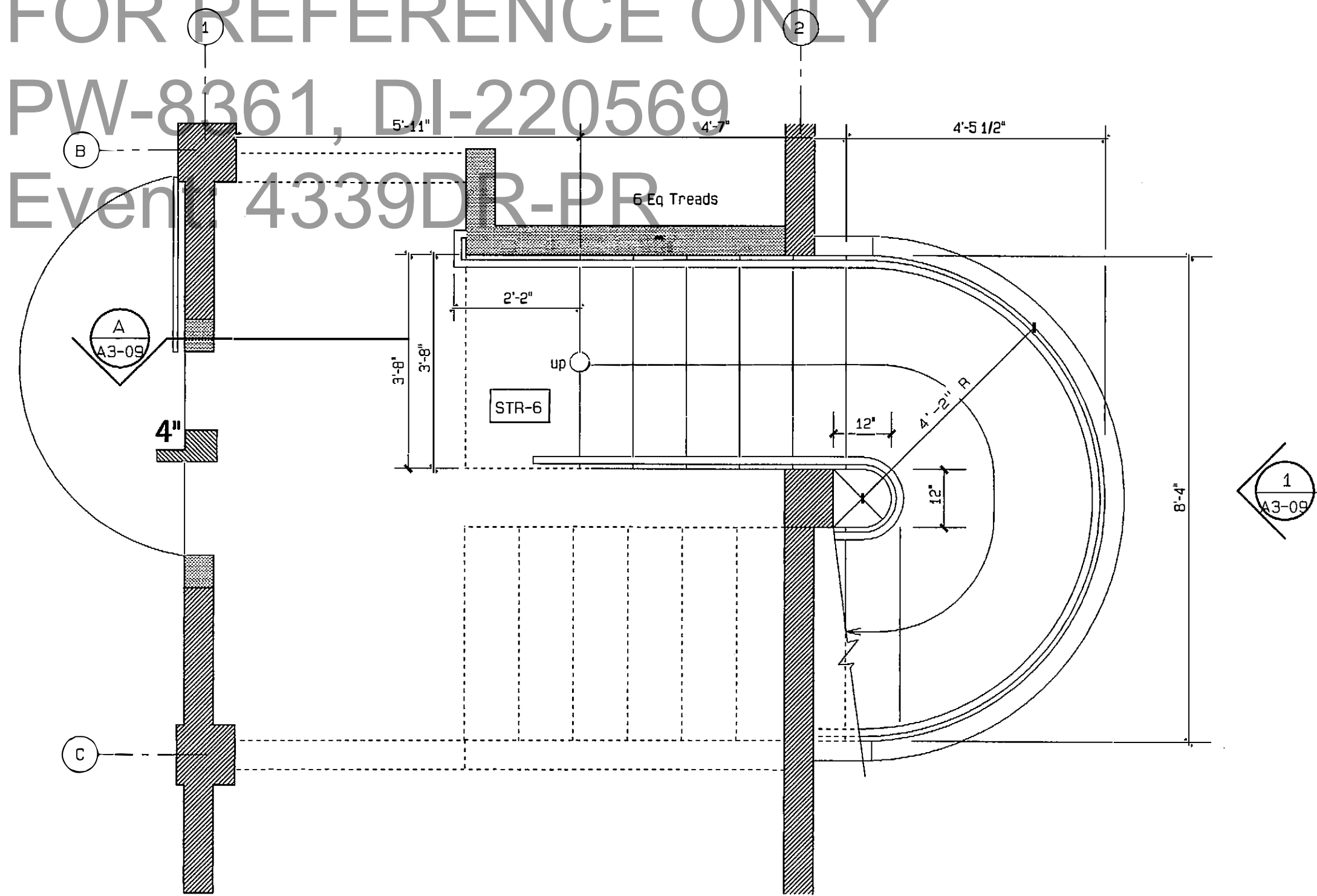
FOR REFERENCE ONLY
 PAV-8361, DI-220569
 Event: 4839DR-PR



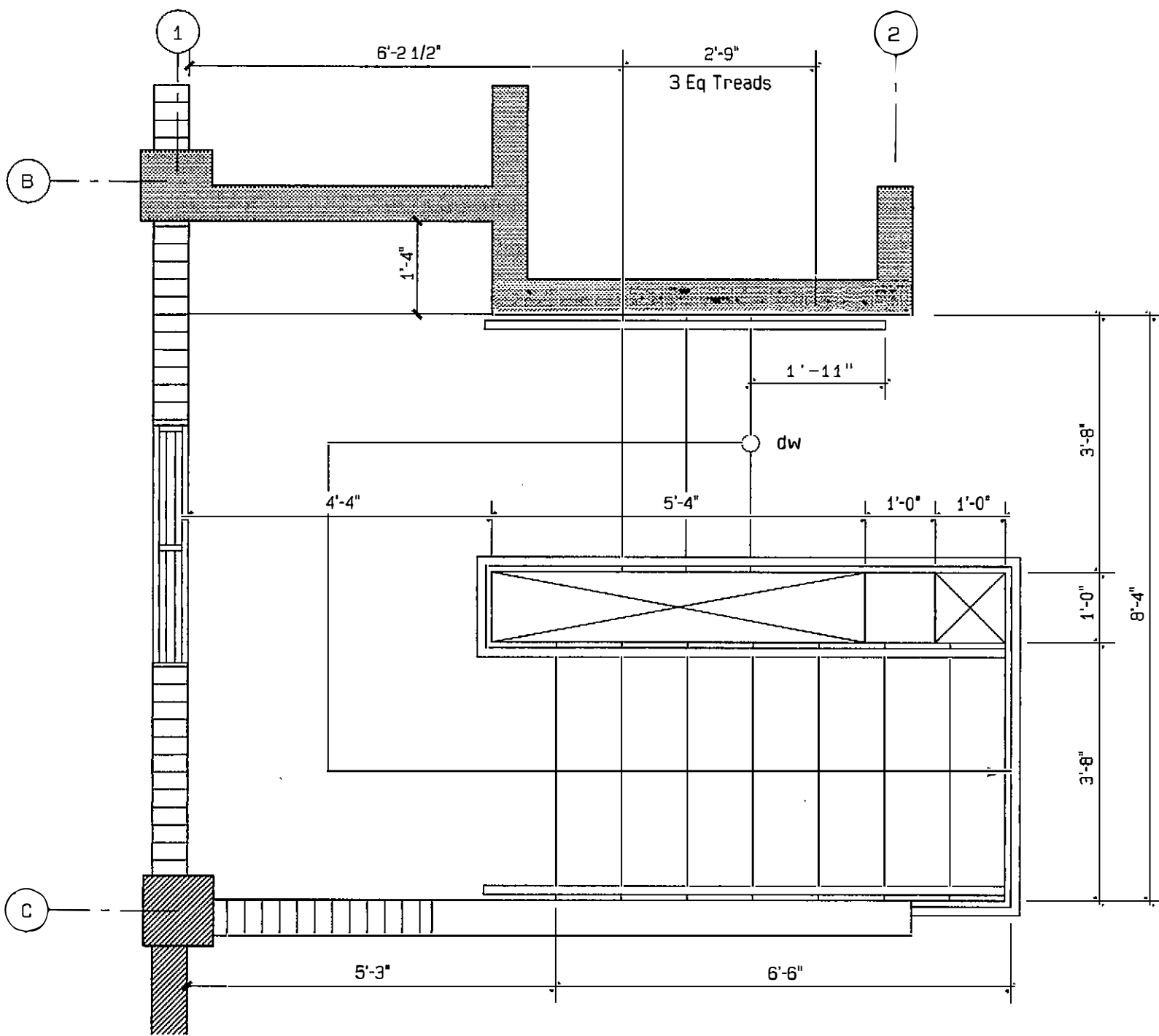
A3
08a

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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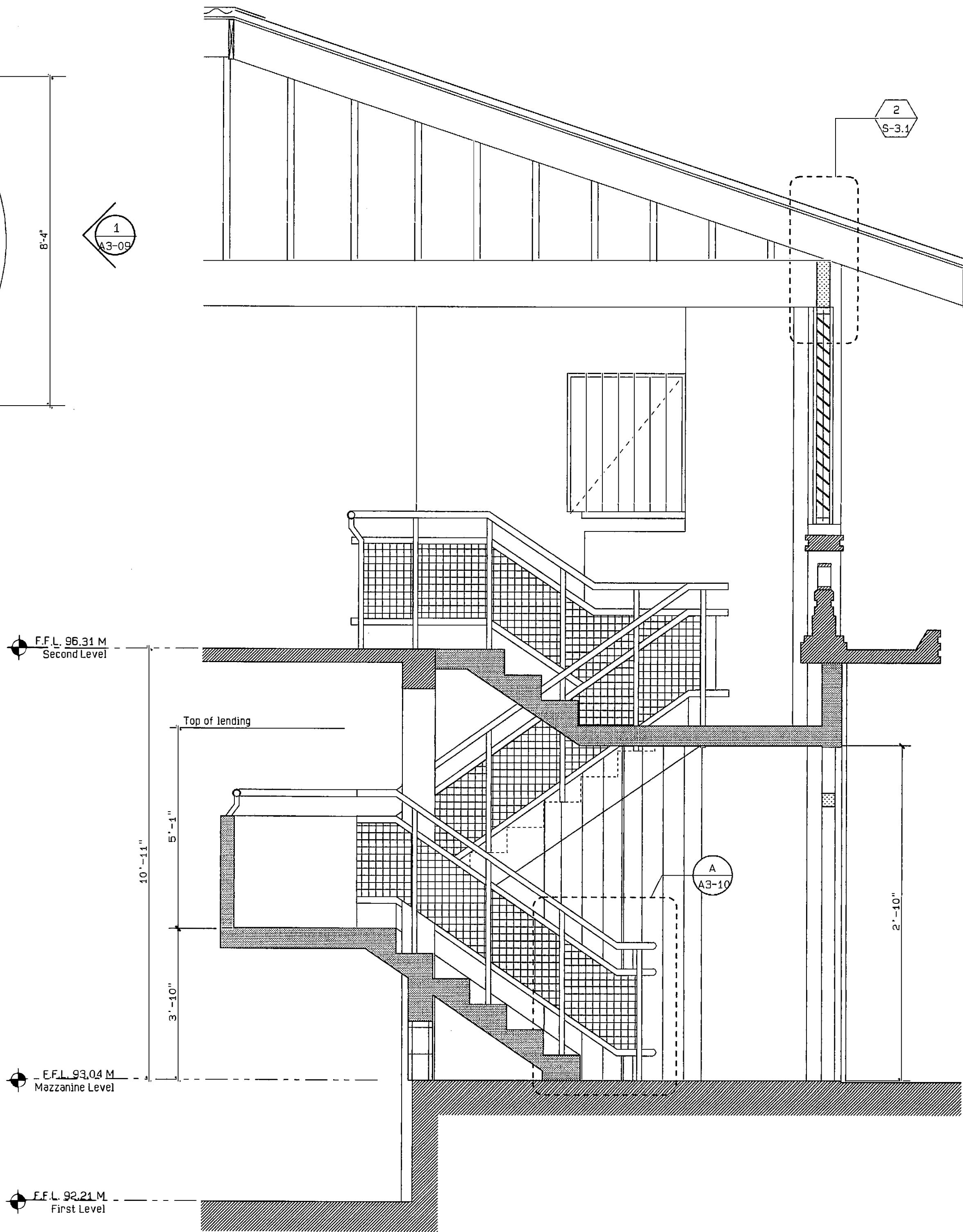
FOR REFERENCE ONLY
PW-8361, DI-220569
Event 4339DR-PR



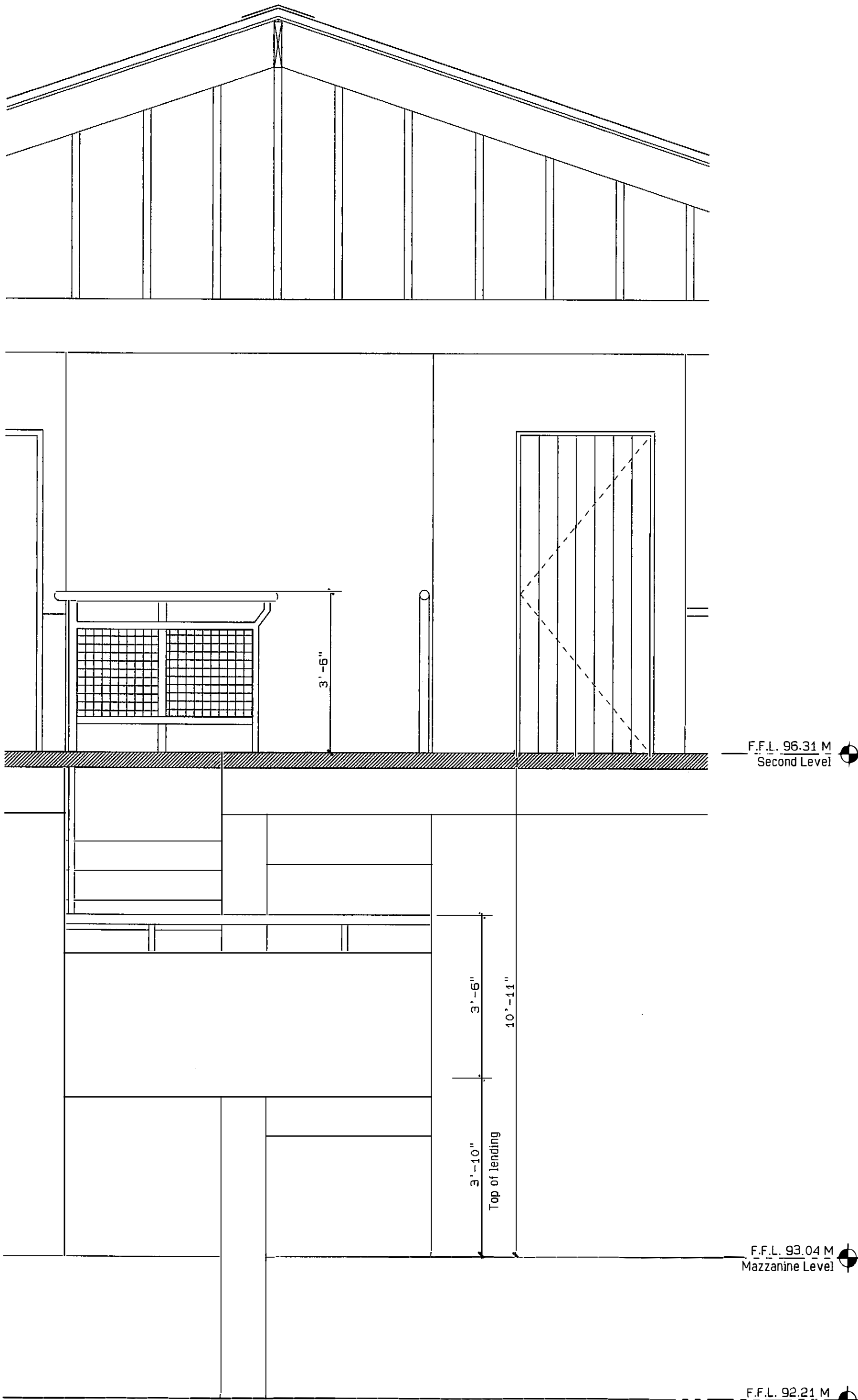
Stair #6 - 1st Floor Plan
Scale: 1/2" = 1'-0"



2nd Floor Plan - Stair #6
Scale: 1/2" = 1'-0"



Section A - A
Scale: 1/2" = 1'-0"



Elevation "1"
Scale: 1/2" = 1'-0"

Note: For stair reinforcement and footing
refer to structural drawings on sheet S-3.2

Detail STR - 6
Scale: 1/2" = 1'-0"

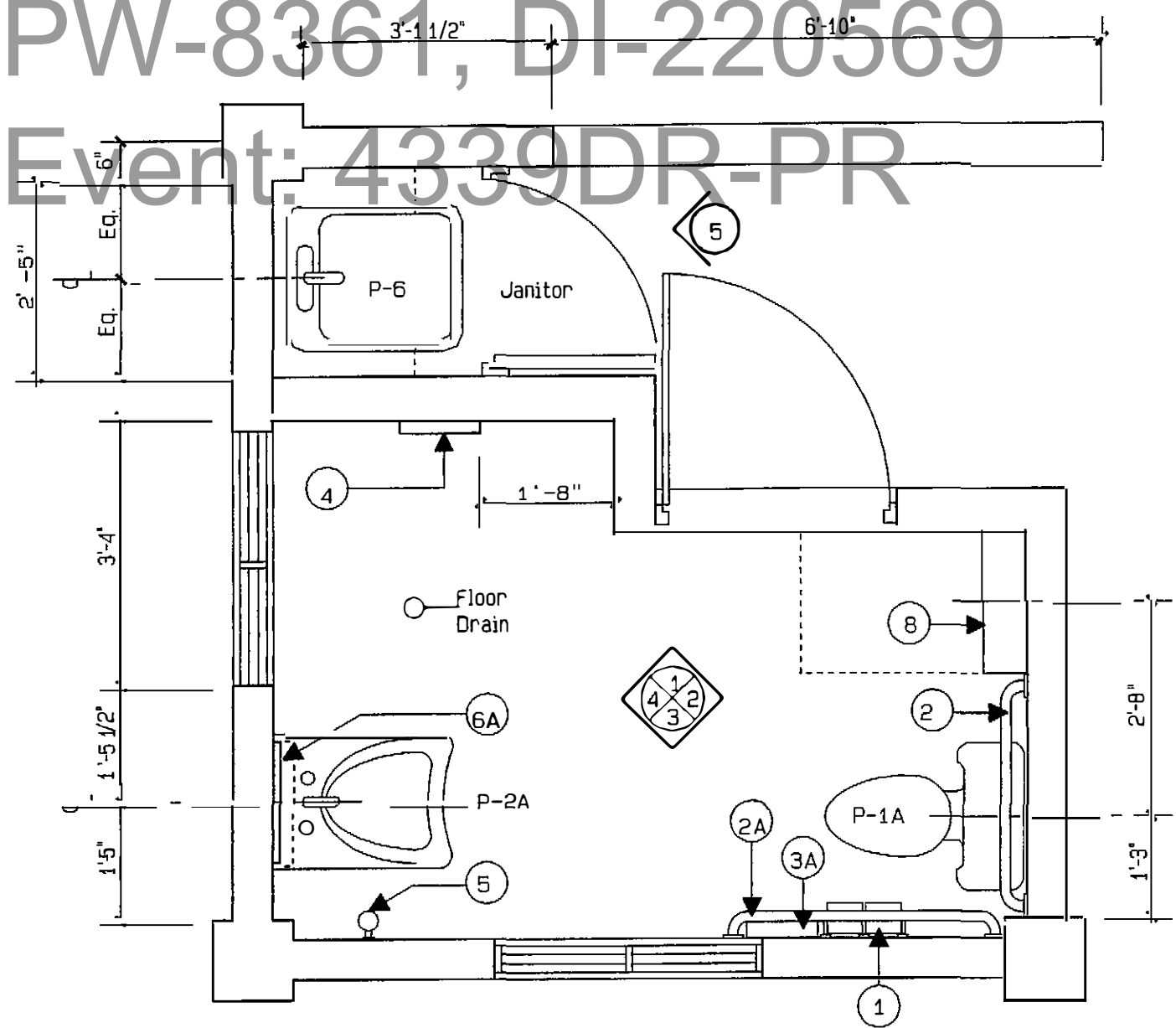
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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EMBARCADERO LAGO DOS Bocas
UTUADO / ARECIBO
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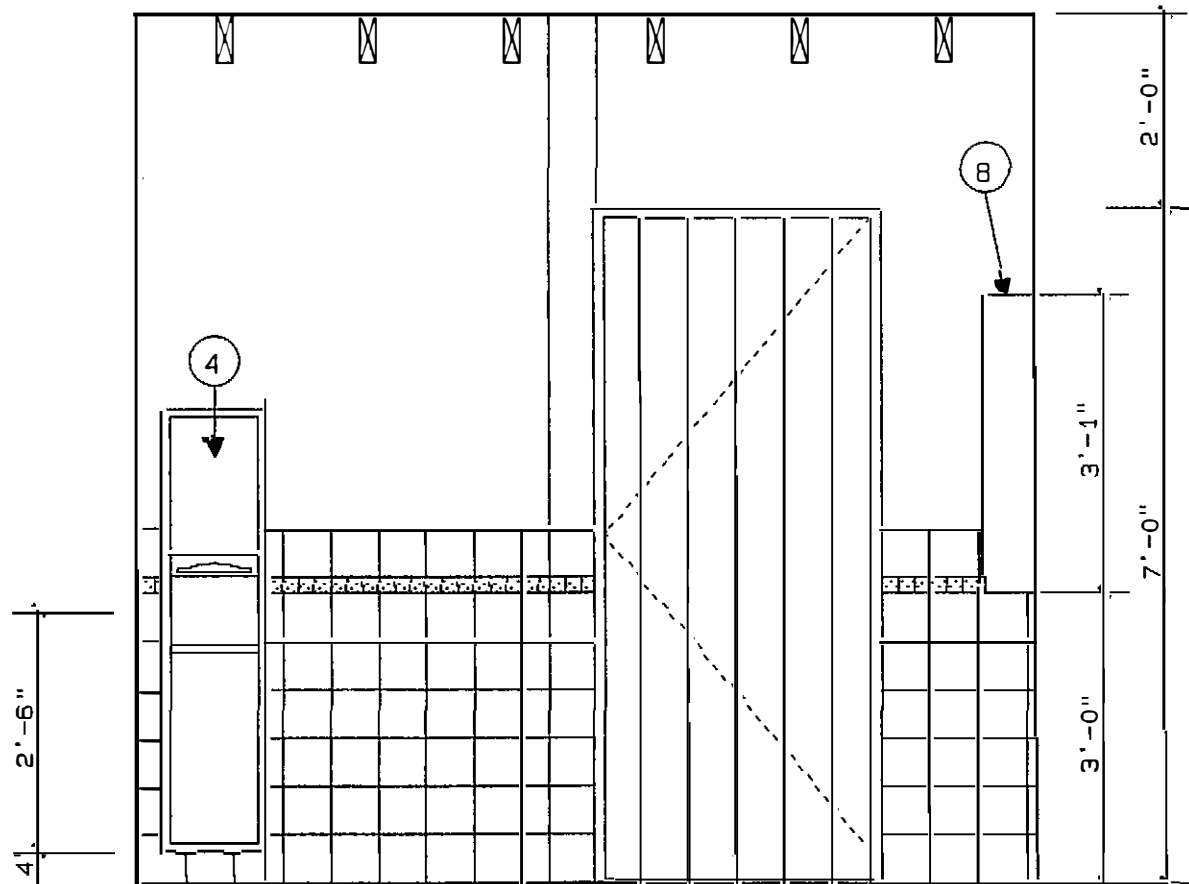
DATE	REVISIONS	SCALE: 1/2":1'-0"	Stairs - Type 6, Details Building #3	A3 09

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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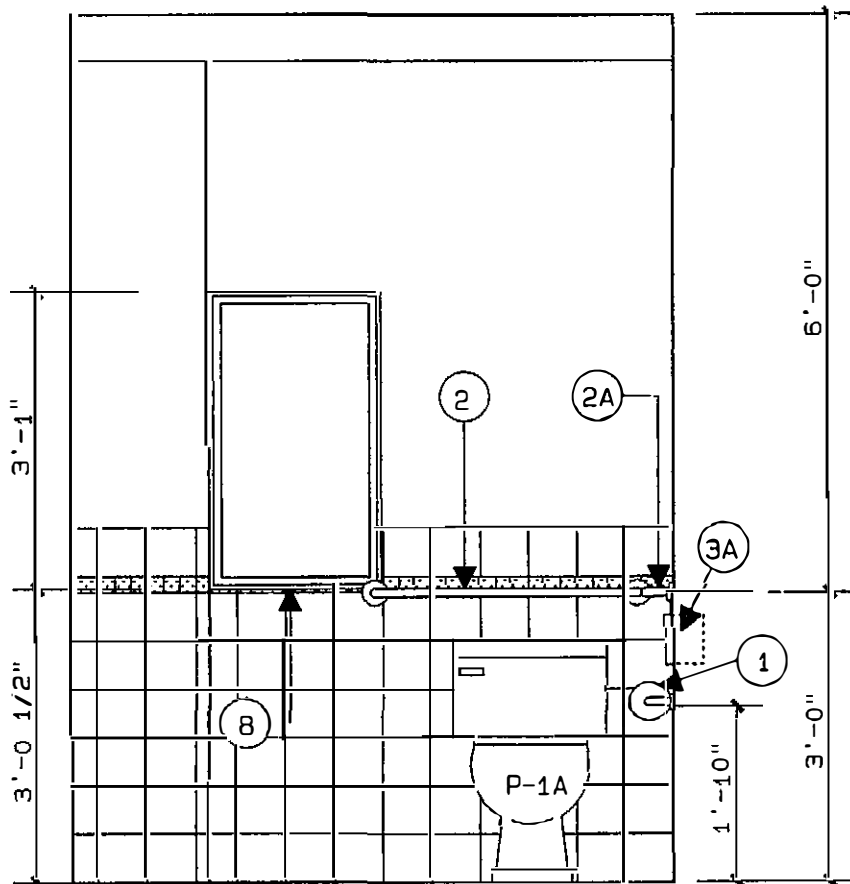
FOR REFERENCE ONLY
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Event: 4339DR-PR



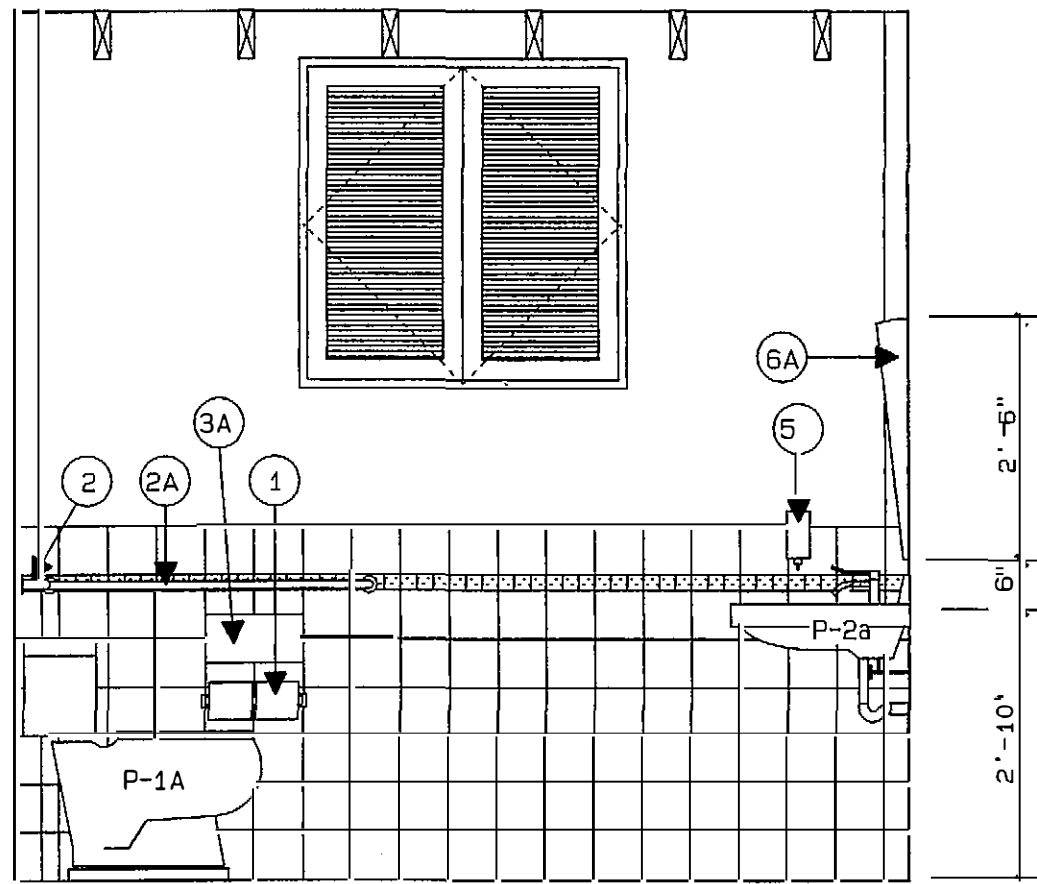
Restroom #4 - Plan
Scale: 1/2"= 1'-0"



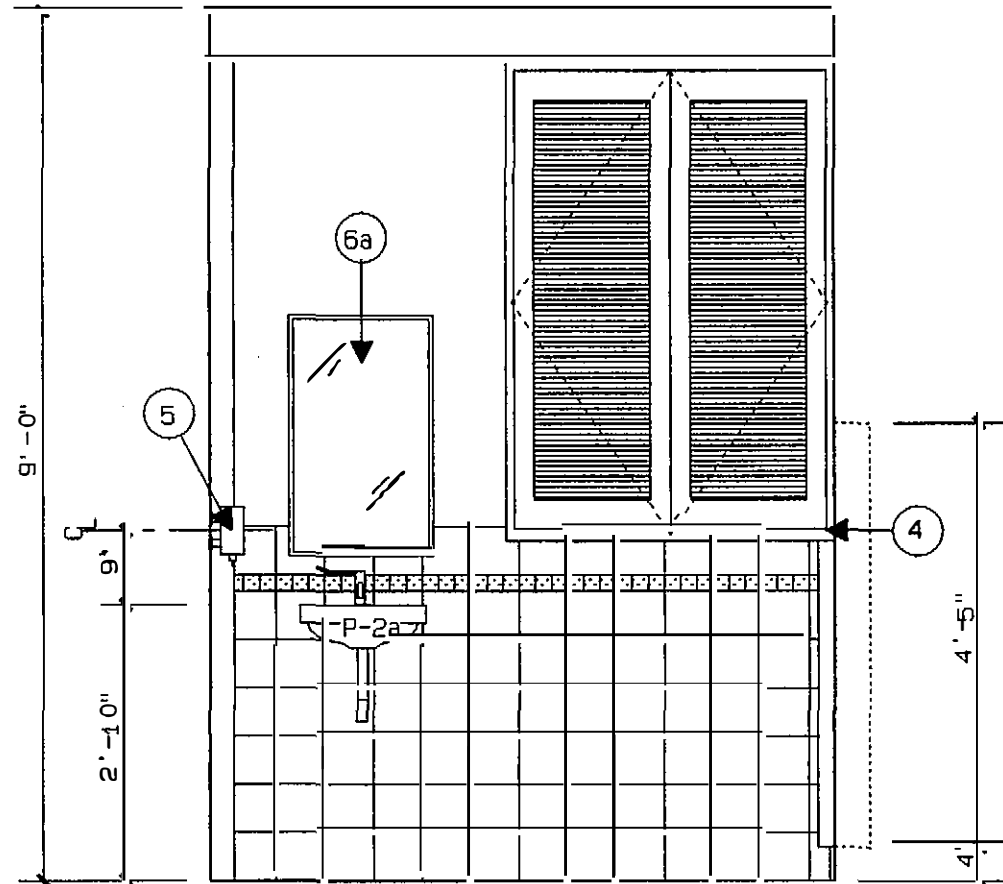
Elevation #1
Restroom #3
Scale: 1/2"= 1'-0"



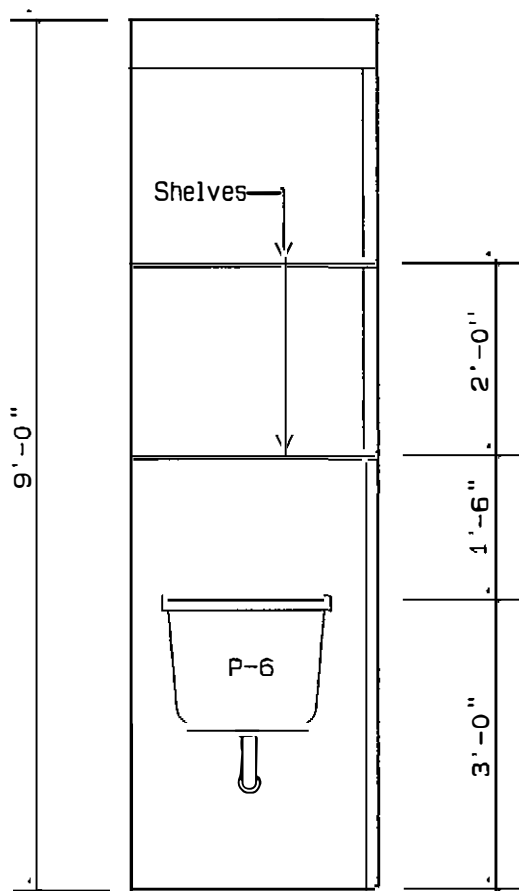
Elevation #2
Restroom #3
Scale: 1/2"= 1'-0"



Elevation #3
Restroom #3
Scale: 1/2"= 1'-0"



Elevation #4
Restroom #3
Scale: 1/2"= 1'-0"



Elevation #5
Janitor
Scale: 1/2"= 1'-0"

Embarcadero Lago Dos Bocas -BATHROOM EQUIPMENT SCHEDULE				
No.	DESCRIPTION	MAKE	MODEL	NOTES
P-1	Water Closet	KOHLER	Wellworth No. K-3420-EB	1.5 gallon flush, elongated bowl, direct flow priming jet, 1-3/4" passadeway, 5204B bolt caps, 12" minimum rough-in, K-4670-C Lustra solid plastic black seat w/ open front & check hinge.
P-1A	Handicapped Water Closet	KOHLER	Highline No. K-3527-EB	3.5 gallon flush, elongated bowl design, 18" high, siphon jet flushing, 2-1/4" passadeway, 521B4 bolt caps, 12" minimum rough-in, K-4670-C Lustra solid plastic black seat w/ open front & check hinge.
P-2	Lavatory	KOHLER	Claxton No. K-2210	K-7512 Argyle faucet (C), K-7605 3/8" angle supplies w/ stops, K-13885 1-1/4" offset drain, K-8998 1-1/4" cast brass "P" trap, K-13711 3/8" IPS supplies w/ 2 loose key stops, 32753 1/4" IPS straight tailpiece (2)
P-2A	Lavatory	KOHLER	Morningside No. K-12634	K-13330 Finesse faucet, K-13885 1-1/4" offset drain, K-8998 1-1/4" cast brass "P" trap, K-13711 3/8" IPS supplies w/ 2 loose key stops, 32753 1/4" IPS straight tailpiece (2)
P-2B	Lavatory	KOHLER	Greenwich No. K-2030	K-7512 Argyle faucet (C), K-7605 3/8" angle supplies with stops, K-8998 1-1/4" cast brass "P" trap, K-7715 drain w/ strainer, K-1808 12" brackets, blank cover at unused faucet (left) opening
P-3	Urinal	KOHLER	Darfield No. K-5024-T	Washout action design, 3/4" top spud inlet, 1-1/2" OD tail piece, wall hangers & removable beehive strainer, chrome supply reducer
P-4	Floor Drain	JR SMITH	No. 2010-B	Flush with tiled or concrete floors, for outlet see plumbing drawings
P-5	Water Cooler	ELKAY	EBFS-8	Stainless steel finish
P-6	Service Sink	MUSTEE	Durastone No.17F	Floor mounting, deep single bowl, 20 gals. capacity, heavy duty faucet w/ hose-treaded spout & "P" trap as approved
P-7	Sink	ELKAY	Lustertone No. DLR-3122-12	Deep single bowl, 18 gauge, type 302, self rim, LK-2085-13 faucet, blank cover at unused faucet (2) openings
P-8	Encased Hose Bibb	ZURN	No. Z-1345	Encased (flush), in concrete or block walls (new or existing)

Embarcadero Lago Dos Bocas -BATHROOM ACCESSORY SCHEDULE					
NO.	DESCRIPTION	MATERIAL	MODEL	MAKE	NOTES
1	Double Surface Mounted Toilet Paper Holder,Stainless Steel.	Stainless Steel	7305-2	ASI	
2	1 1/2" ø grab bar, 36" long Exposed Mounting.	Stainless Steel	B-6106	BOBRICK	
2A	1 1/2" ø grab bar, 42" long Exposed Mounting.	Stainless Steel	B-6106	BOBRICK	
3	Sanitary Napkin Disposal	Stainless Steel	B-354	BOBRICK	Mounts in toilet Partitions. Serves two compartments.
3A	Sanitary Napkin Disposal	Stainless Steel	B-3544	BOBRICK	Mounts to wall of single compartment
4	Paper Towel Dispenser and Disposal 600C-Fold or B00 Multi-Fold Paper Towels, 7 gal. capacity	Stainless Steel	0467-SR2	ASI	13"x 55"x 6-1/2" Wall Opening: 12-3/4" x 26-1/2" x 4 1/4"
4A	Paper Towel Dispenser and Disposal 2 gal. capacity	Stainless Steel	64623	ASI	14-1/4"x 28"x 4-1/2" Wall Opening: 11 1/2" x 53 1/2" x 4 1/4"
5	Liquid Soap Dispenser	Chrome Plated Brass	T-10	KROIN	
6	Mirror w/Stainless Steel Frame	Glass/Stainless Steel	B-292 1630	BOBRICK	18"x30"x3/4"
6A	Tilt Frame Mirror w/ S.S. Frame	Glass/Stainless Steel	B-294 1630	BOBRICK	16"x30"x3/4"
7	Toilet Partitions	Stainless Steel	BAYPORT	ACCURATE	S.S. (type 304) accessories
8	Baby Changing Station	Plastic	9010	ASI	37" x 21 1/2" x 6 1/2"
9	Long Towel hook	Chrome Plated Brass	T-18	KROIN	
10	Folding Utility Shelf	Stainless Steel	B-287	BOBRICK	

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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE

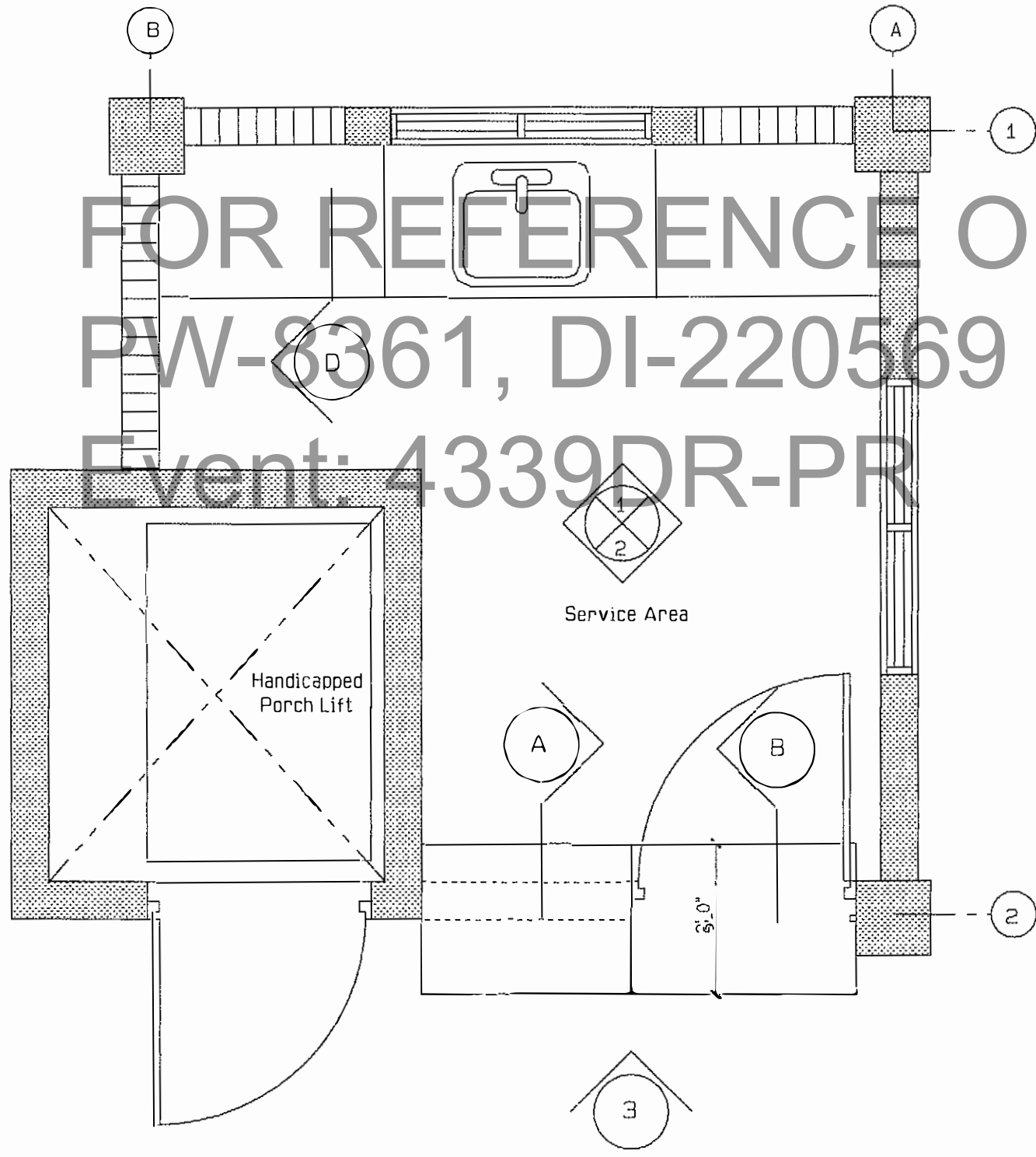
REVISIONS

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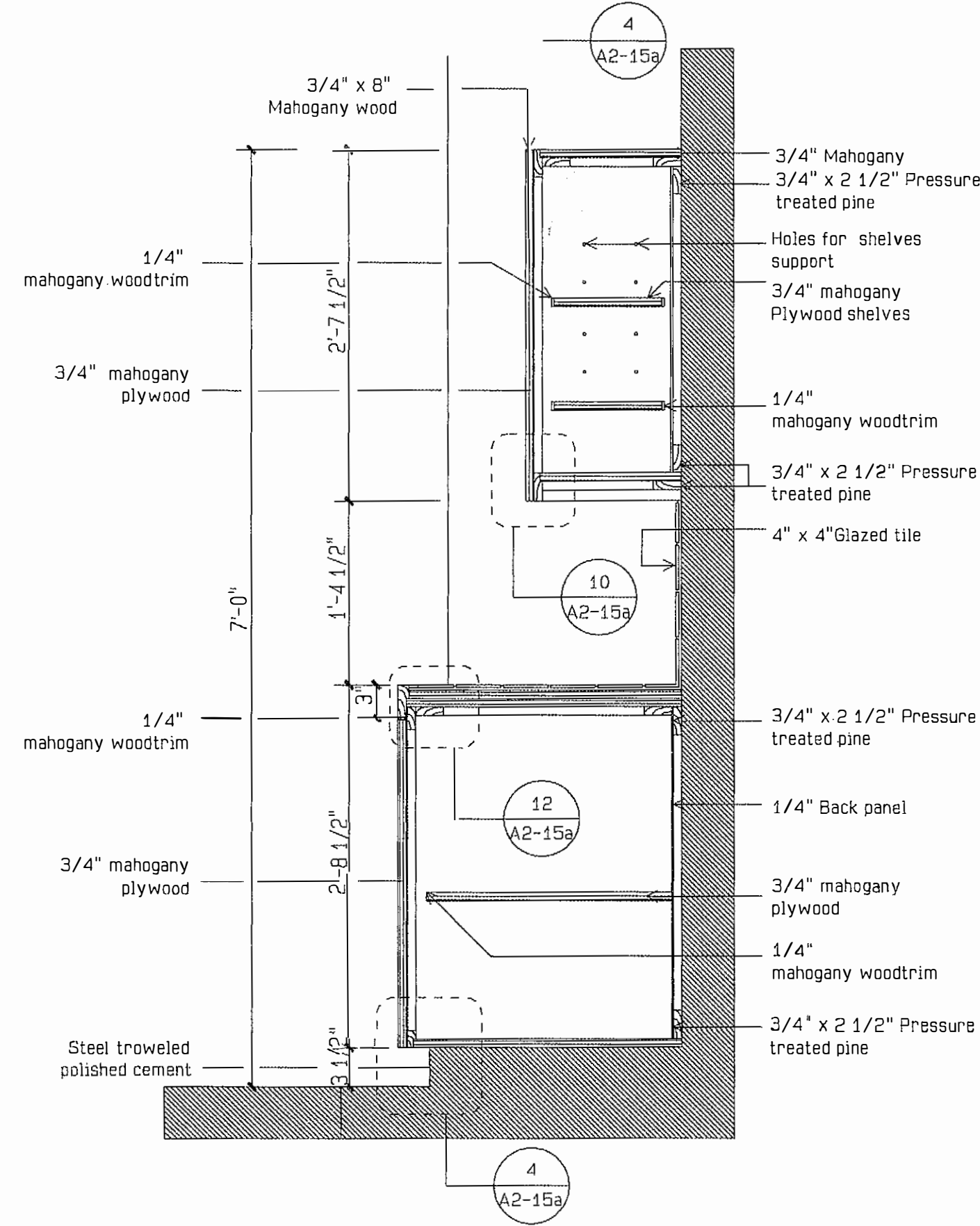
Restroom #4
Building #3

A3
11

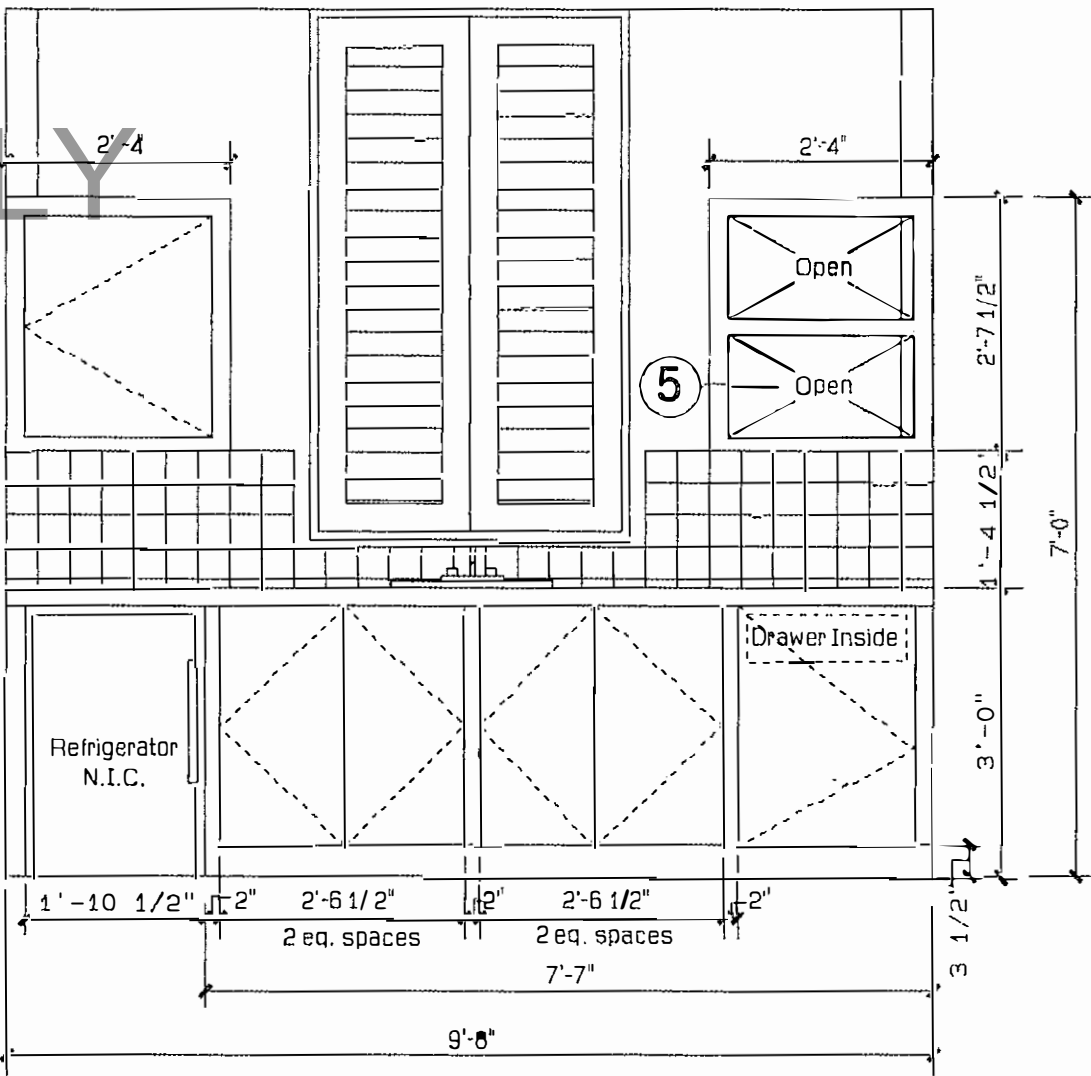
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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	126	181



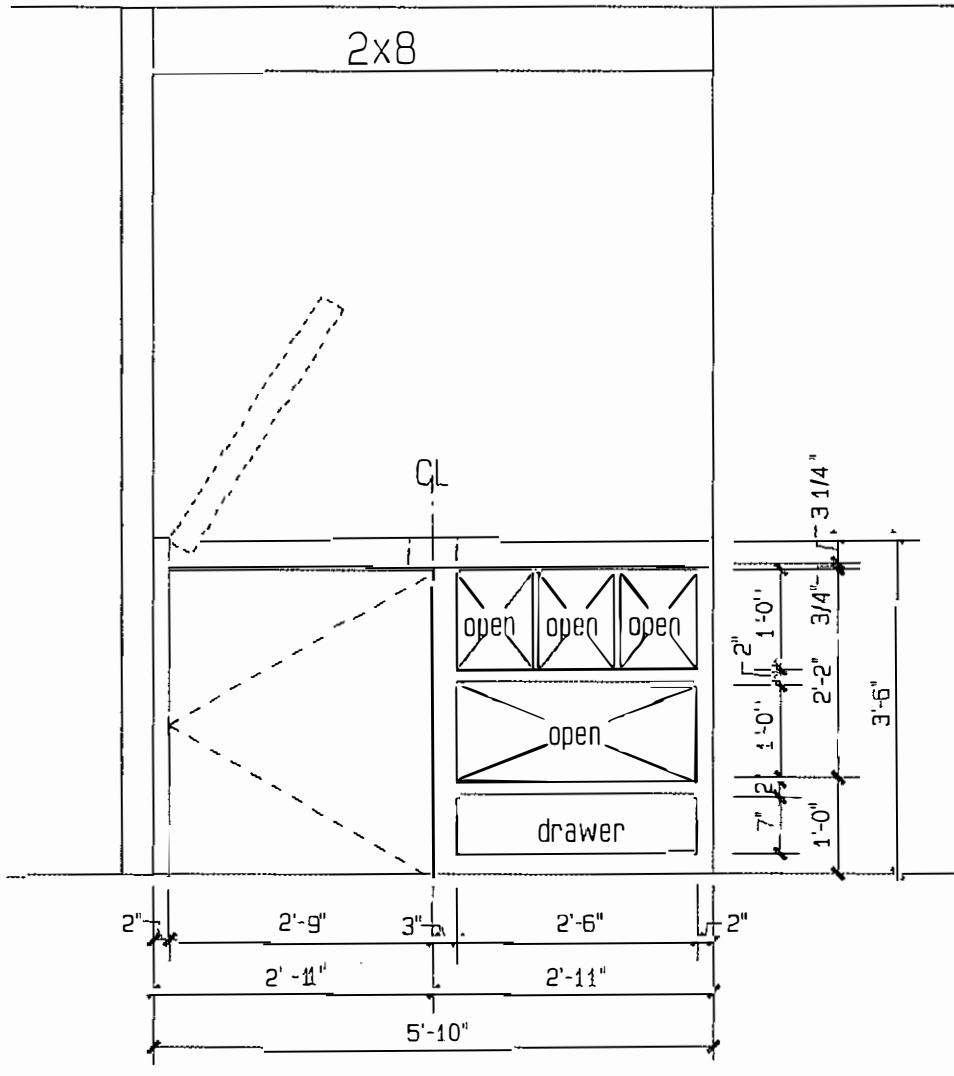
Service Area - Plan
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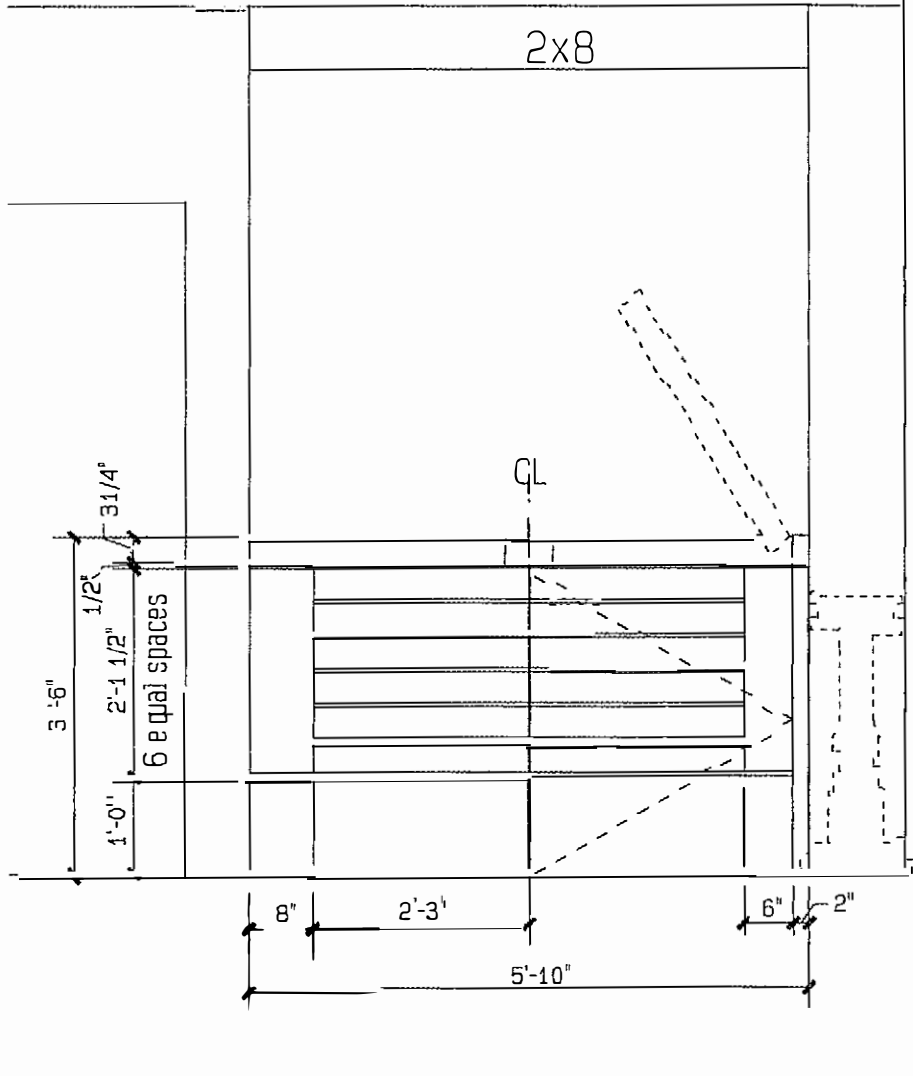
Section C
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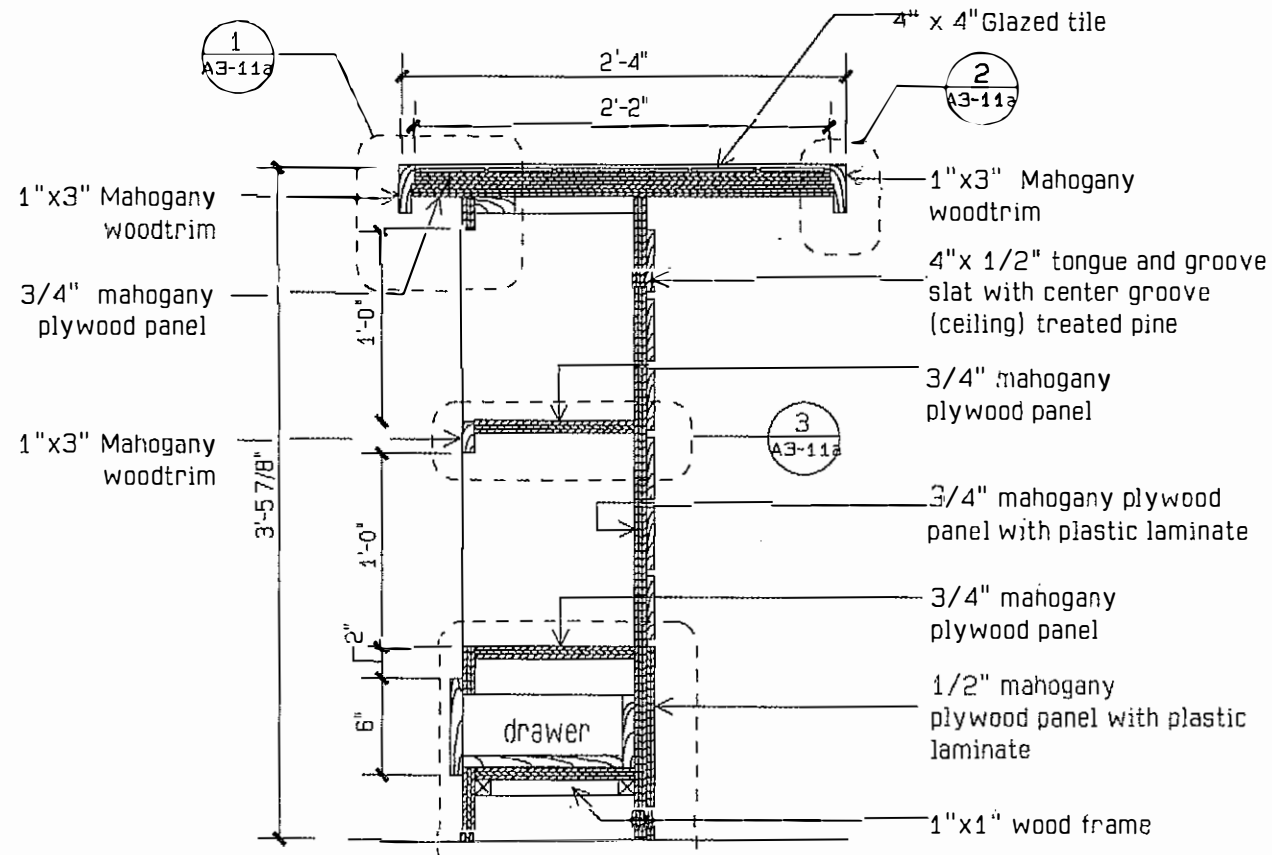
Elevation 1
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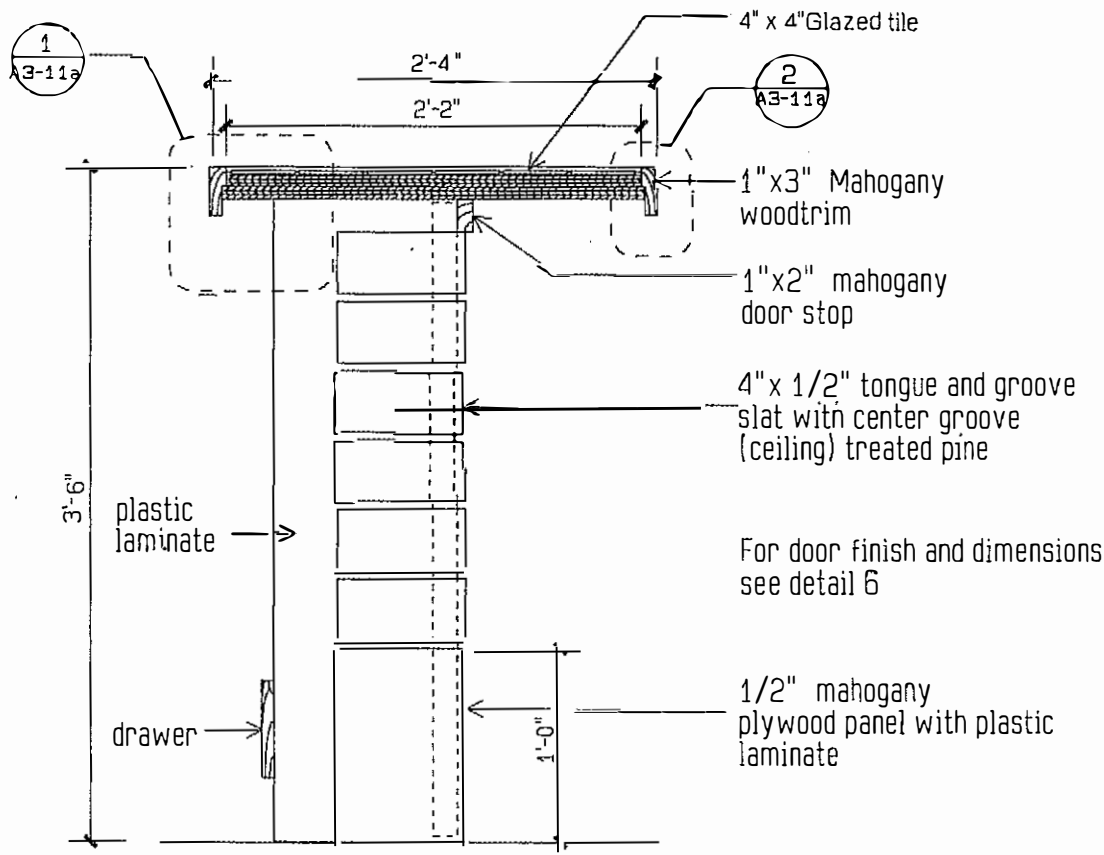
Elevation 2
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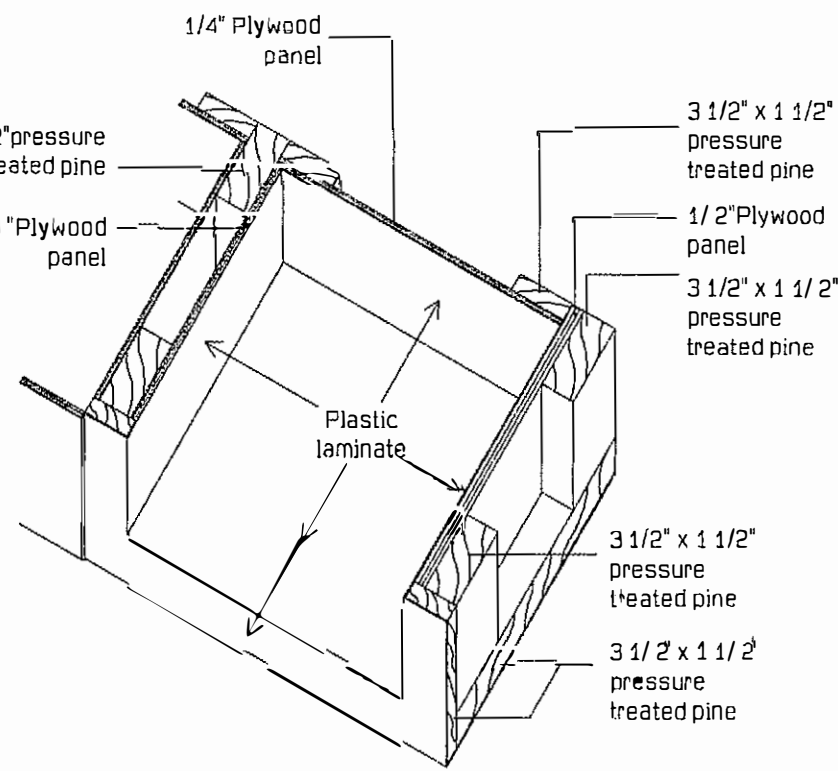
Elevation 3
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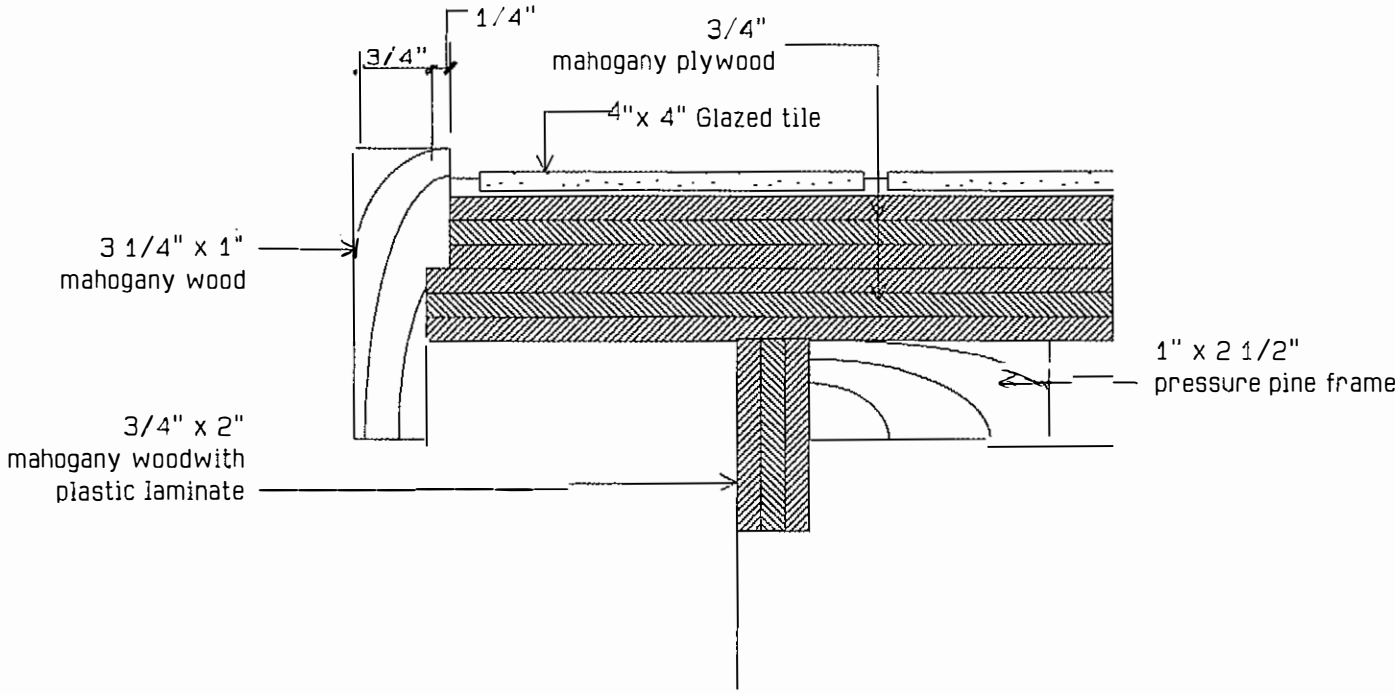
Section A
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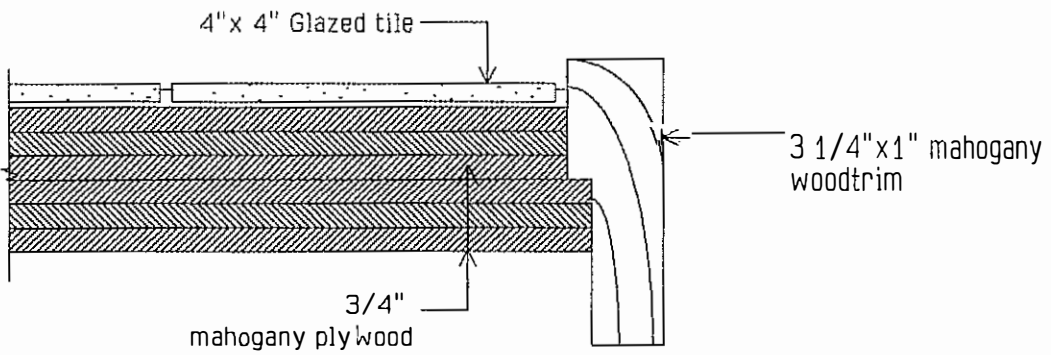
Section B
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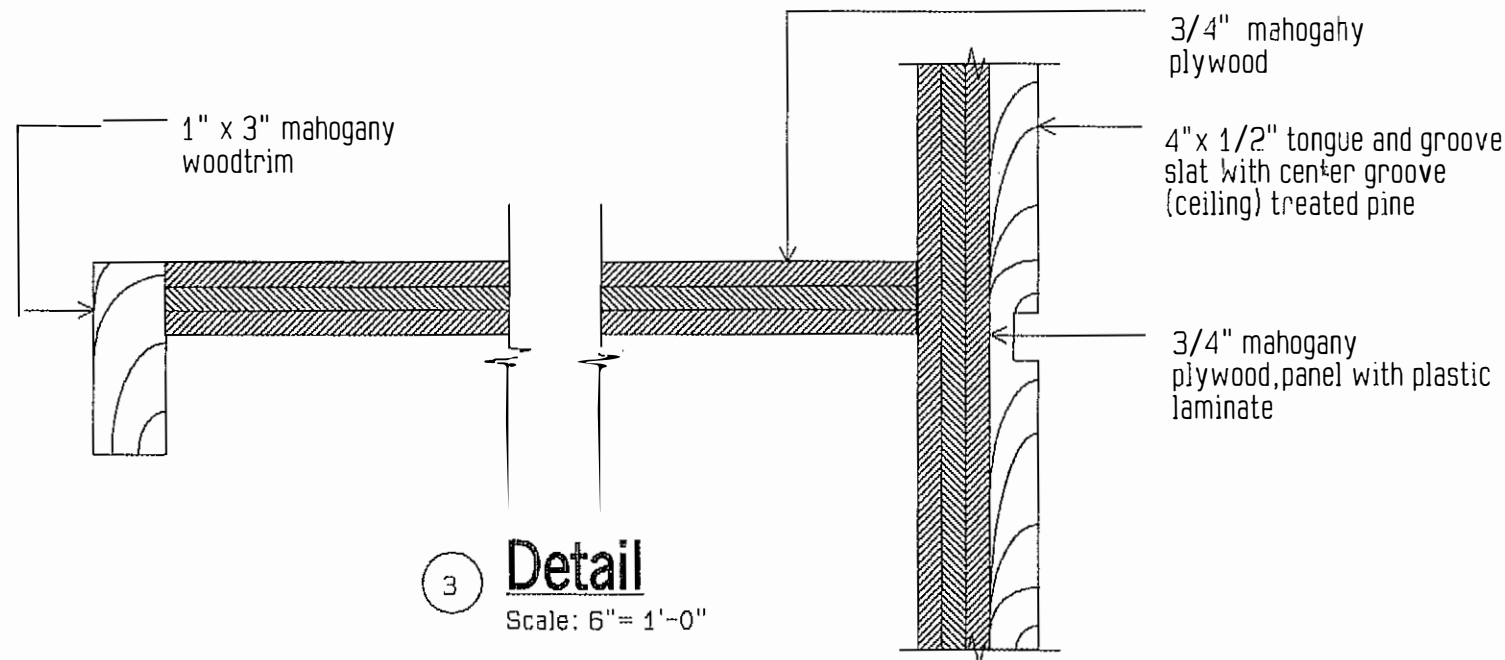
Detail - 5
Scale: 3" = 1'-0"



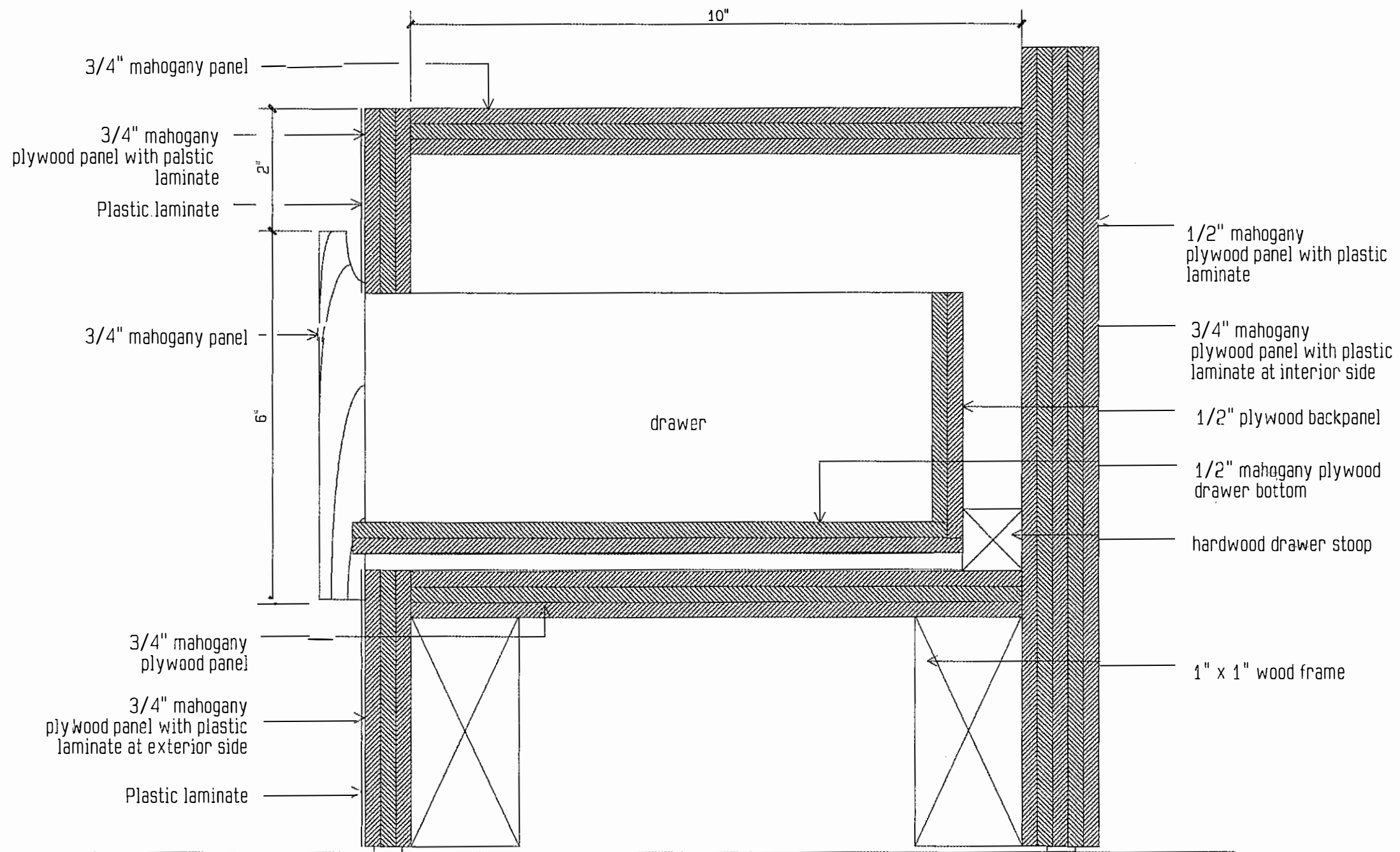
Detail 1
Scale: 6" = 1'-0"



Detail 2
Scale: 6" = 1'-0"



Detail 3
Scale: 6" = 1'-0"

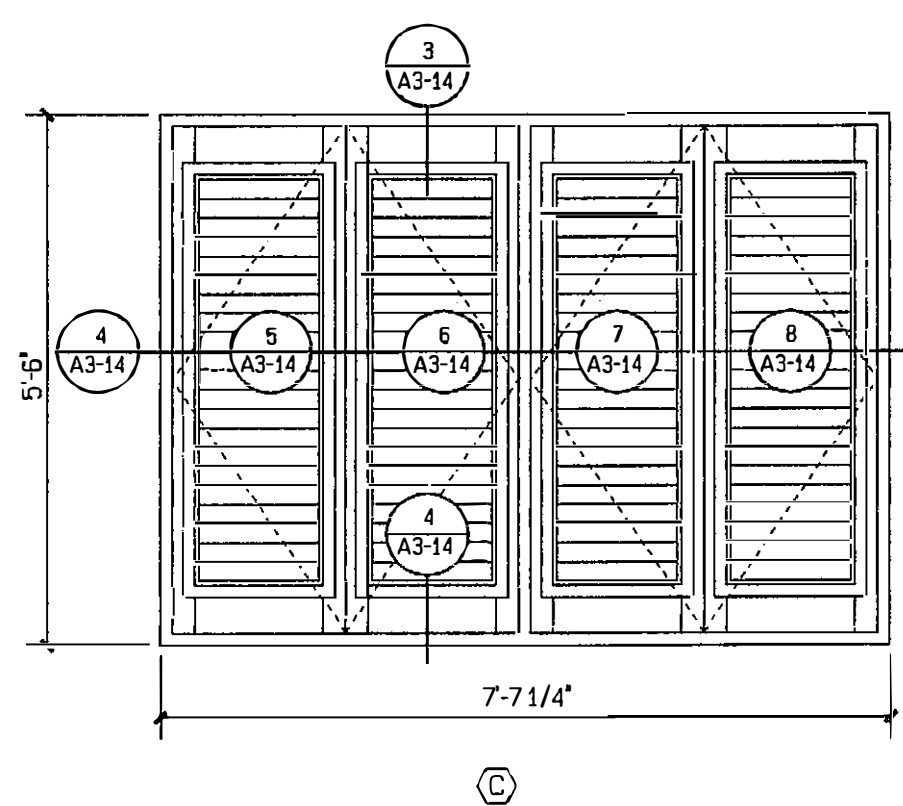
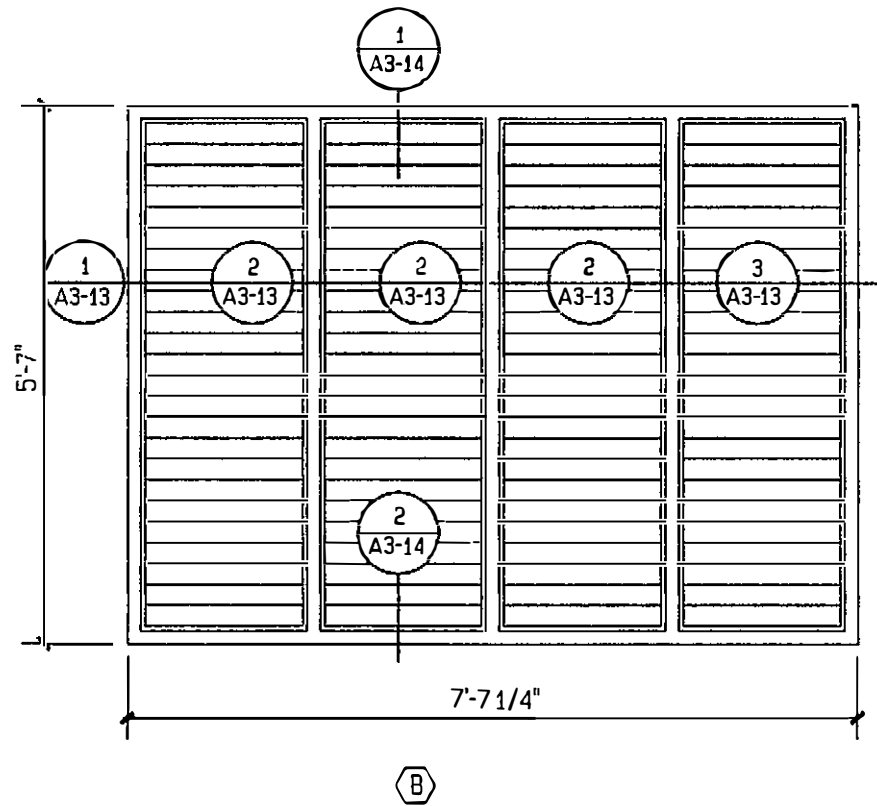
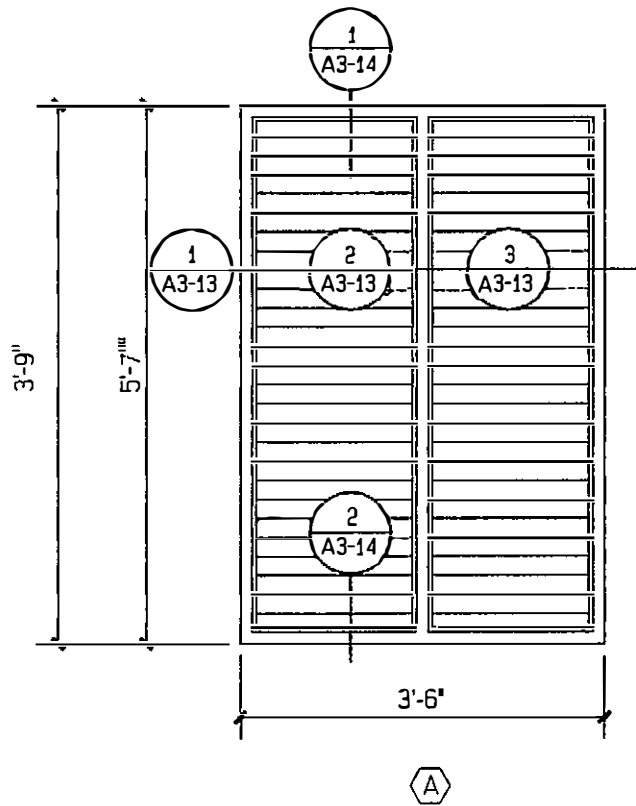


Detail 4
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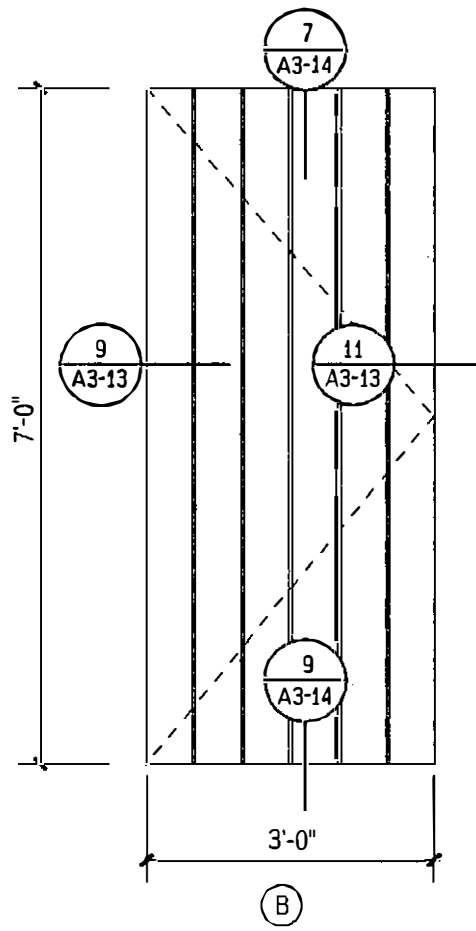
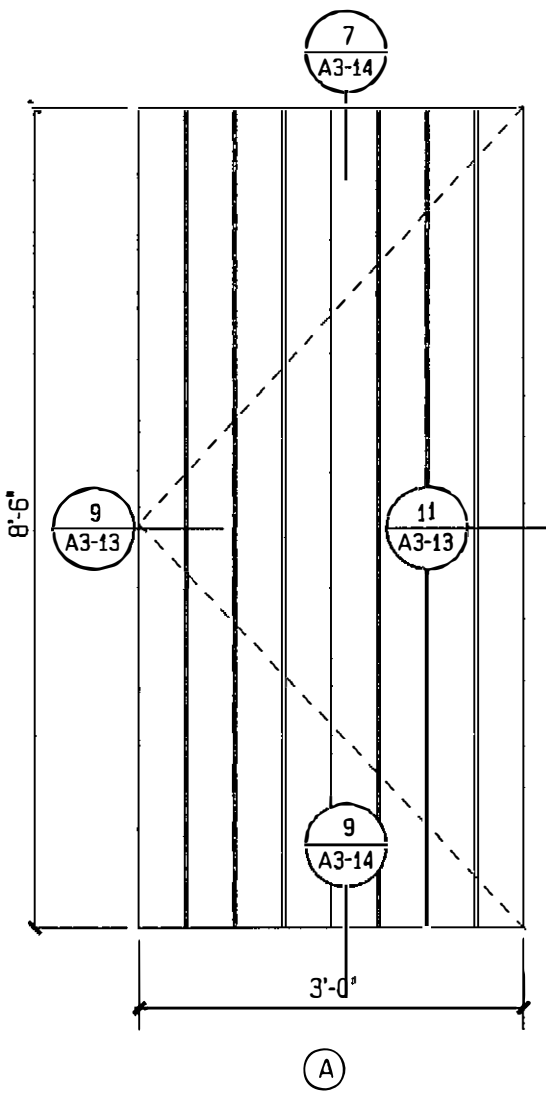
DATE	REVISIONS

SCALE: as shown

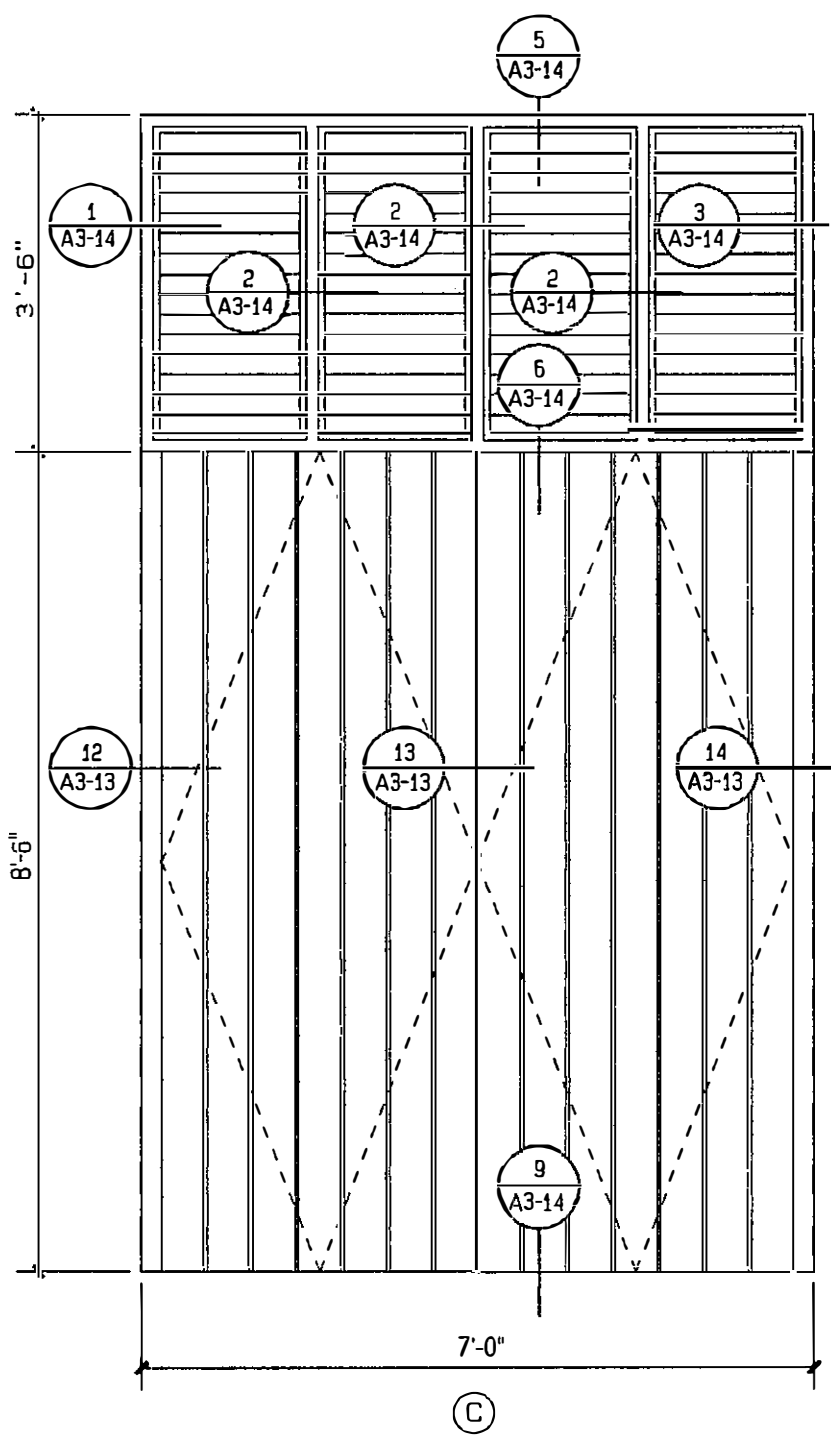
FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



Window Types
Scale: 1/2" = 1'-0"



Door Types
Scale: 1/2" = 1'-0"



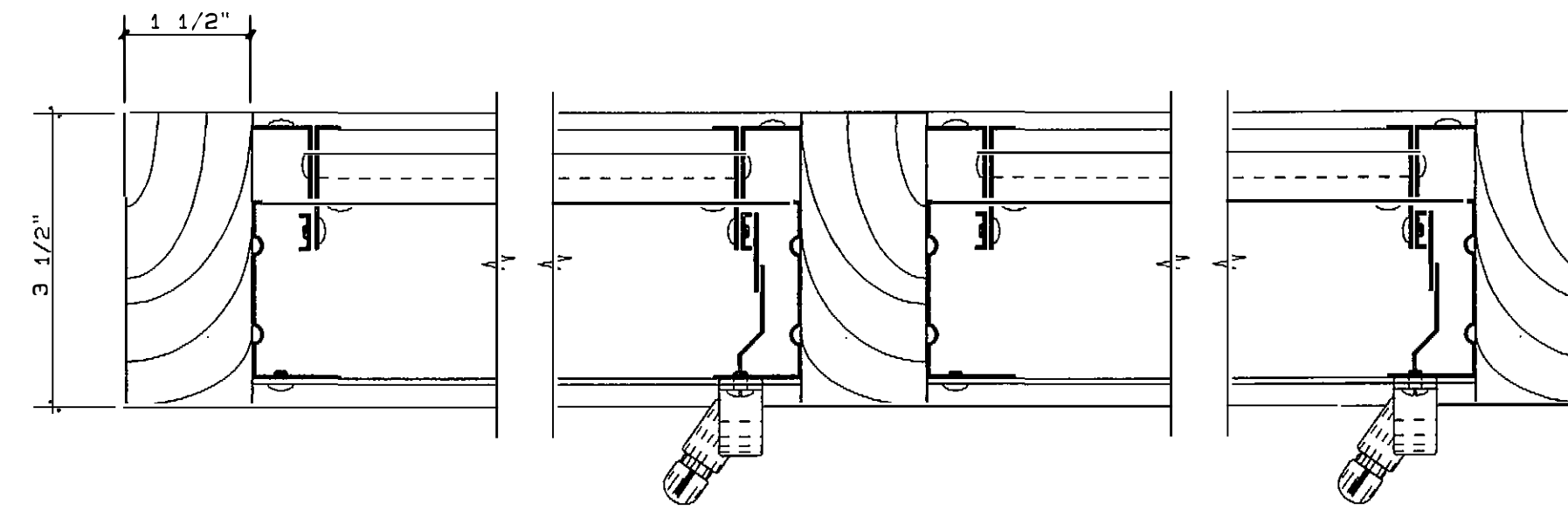
FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	127	181

DB Window Schedule							Building 3	
No.	Type	* Dimension	Material	Fin.	Tran.	Frame	Notes	
301	A	3'-6" x 3'-9"	Alum./Tr. Pine	Paint	—	Td. Pine	Jalousie, wood frame	
302	A	3'-0" x 5'-7"	Alum./Tr. Pine	Paint	—	Td. Pine	Jalousie, wood frame	
303	A	3'-0" x 5'-7"	Alum./Tr. Pine	Paint	—	Td. Pine	Jalousie, wood frame	
304	B	7'-3" x 5'-7"	Alum./Tr. Pine	Paint	—	Td. Pine	Jalousie, wood frame	
305	B	7'-7" x 5'-7"	Alum./Tr. Pine	Paint	—	Td. Pine	Jalousie, wood frame	
306	B	7'-7" x 5'-7"	Alum./Tr. Pine	Paint	—	Td. Pine	Jalousie, wood frame	
307	B	7'-3" x 5'-7"	Alum./Tr. Pine	Paint	—	Td. Pine	Jalousie, wood frame	
308	A	3'-6" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Jalousie, wood frame	
309	A	3'-6" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Jalousie, wood frame	
310	A	3'-6" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Jalousie, wood frame	
311	A	3'-6" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Jalousie, wood frame	
312	C	7'-3" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Double leaf, jalousie, wood frame	
313	C	7'-7" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Double leaf, jalousie, wood frame	
314	C	7'-7" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Double leaf, jalousie, wood frame	
315	C	7'-3" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Double leaf, jalousie, wood frame	
316	C	7'-0" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Double leaf, jalousie, wood frame	
317	C	7'-0" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Double leaf, jalousie, wood frame	
318	C	6'-3" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Double leaf, jalousie, wood frame	
319	C	6'-3" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Double leaf, jalousie, wood frame	
320	C	7'-3" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Double leaf, jalousie, wood frame	
321	C	7'-7" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Double leaf, jalousie, wood frame	
322	C	7'-7" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Double leaf, jalousie, wood frame	
323	C	7'-3" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Double leaf, jalousie, wood frame	
324	A	3'-6" x 5'-6"	Alum./Tr. Pine	Paint	—	Td. Pine	Jalousie, wood frame	
* Contractor shall verify all dimensions on site.								

DB Door Schedule							Building 3	
No.	Type	*Dimension	Material	Fin.	Tran.	Frame	Notes	
301	B	3'-0" x 8'-6"	Treated Pine	Paint	—	Td. Pine	Tablón (batten), single leaf	
302	B	3'-0" x 8'-6"	Treated Pine	Paint	—	Td. Pine	Tablón (batten), single leaf	
303	B	3'-0" x 8'-6"	Treated Pine	Paint	—	Td. Pine	Tablón (batten), single leaf	
304	C	7'-3" x 12'-0"	Treated Pine	Paint	Alum./Tr. Pine	Td. Pine	Tablón, pivot double leaf/jalousie tran. w/alum. mch.	
305	C	7'-7" x 12'-0"	Treated Pine	Paint	Alum./Tr. Pine	Td. Pine	Tablón, pivot double leaf/jalousie tran. w/alum. mch.	
306	C	7'-7" x 12'-0"	Treated Pine	Paint	Alum./Tr. Pine	Td. Pine	Tablón, pivot double leaf/jalousie tran. w/alum. mch.	
307	C	7'-3" x 12'-0"	Treated Pine	Paint	Alum./Tr. Pine	Td. Pine	Tablón, pivot double leaf/jalousie tran. w/alum. mch.	
308	C	7'-0" x 12'-0"	Treated Pine	Paint	Alum./Tr. Pine	Td. Pine	Tablón, pivot double leaf/jalousie tran. w/alum. mch.	
309	C	7'-0" x 12'-0"	Treated Pine	Paint	Alum./Tr. Pine	Td. Pine	Tablón, pivot double leaf/jalousie tran. w/alum. mch.	
310	A	3'-0" x 8'-6"	Treated Pine	Paint	—	Td. Pine	Tablón (batten), single leaf	
311	B	3'-0" x 7'-0"	Treated Pine	Paint	—	Td. Pine	Tablón (batten), single leaf	
312	B	2'-10" x 7'-0"	Treated Pine	Paint	—	Td. Pine	Tablón (batten), single leaf	
313	B	2'-3" x 7'-0"	Treated Pine	Paint	—	Td. Pine	Tablón (batten), single leaf	
314	B	3'-0" x 7'-0"	Treated Pine	Paint	—	Td. Pine	Tablón (batten), single leaf	
* Contractor shall verify all dimensions on site.								

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

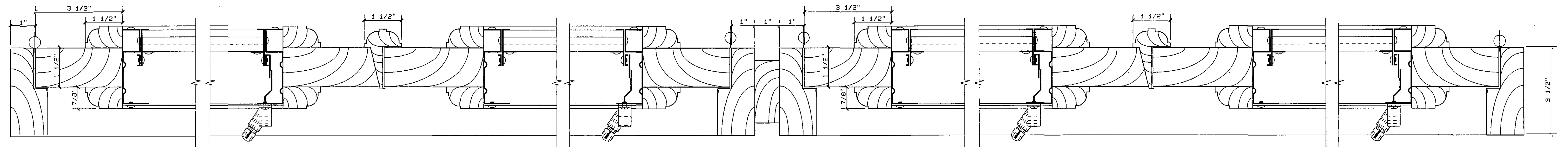
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	AC 100030	P. R.123	UTUADO ARECIBO	P. R.	1996	120	181



Detail 1
Scale: 6"=1'-0" A3-13

Detail 2
Scale: 6"=1'-0" A3-1

Detail 3
Scale: 6"=1'-0" A3-1



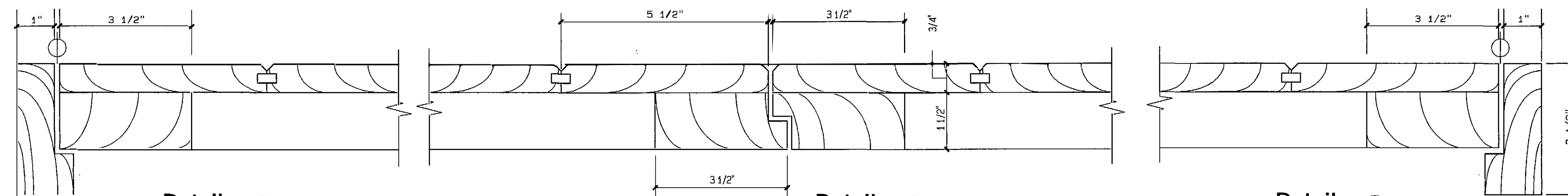
Detail 4
Scale: 6"=1'-0" A3-13

Detail 5
Scale: 6"=1'-0" A3-13

Detail 6
Scale: 6"=1'-0" A3-1

Detail 7
Scale: 6"=1'-0" A3-

Detail
Scale: 6"=1'-0"

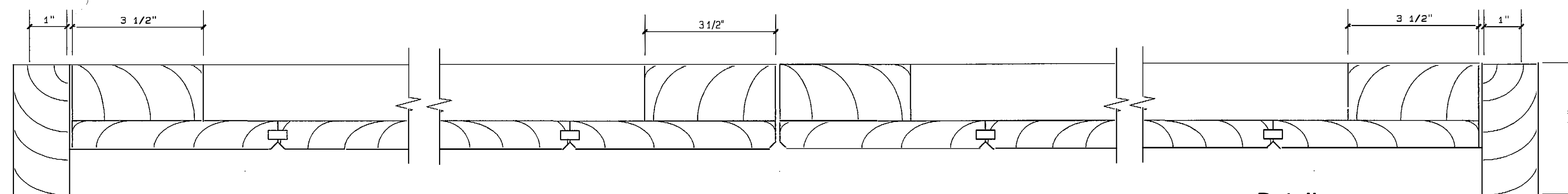


Detail 9
Scale: 6"=1'-0" A3-1

Detail 10
Scale: 6"=1'-0" A3-1

Detail 11
Scale: 6"=1'-0" A3-1

18.71 CAR DIMENSION



Detail 12
Scale: 6"=1'-0" A3-13

Detail 13
Scale: 6"=1'-0" A3-1

Detail 14
Scale: 6"=1'-0" A3-1

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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UTUADO / ARECIBO
PUERTO RICO

DATE _____

REVISIONS

SCALE: 6"=1'-0"

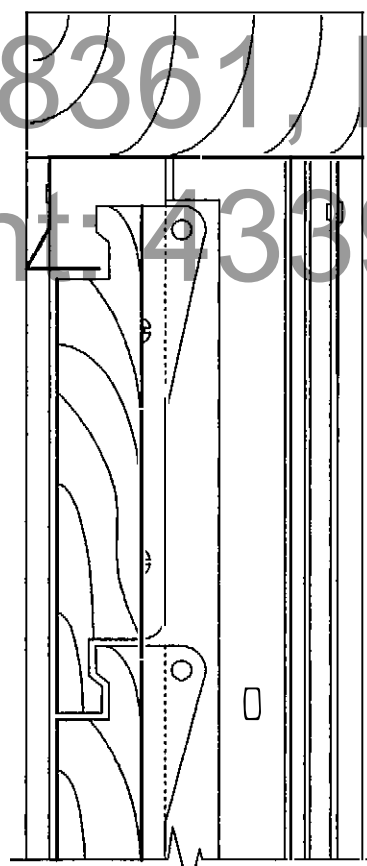
Door & Window Details

Building #3

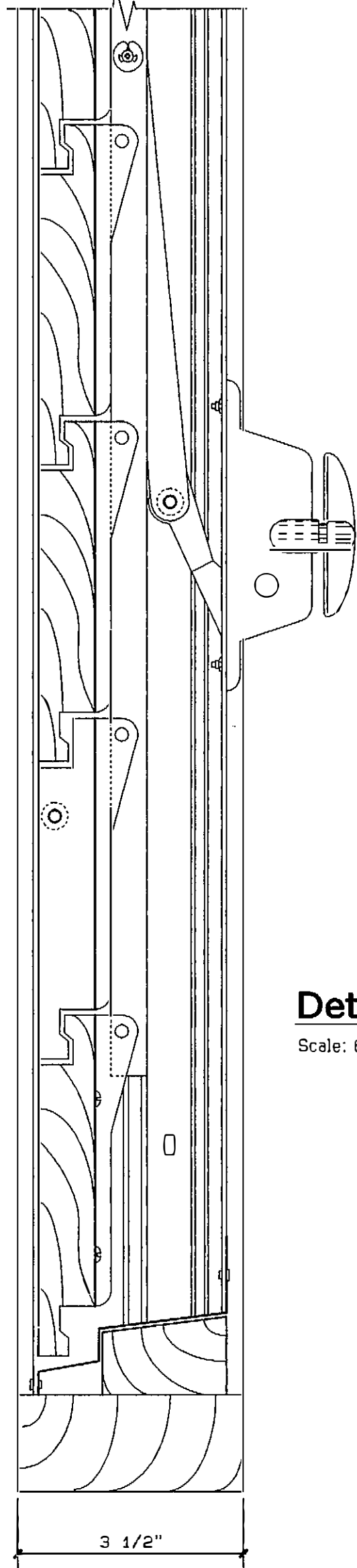
A3	
	13

FOR REFERENCE ONLY
PW-8361, DI-220569
Event #339DR-PR

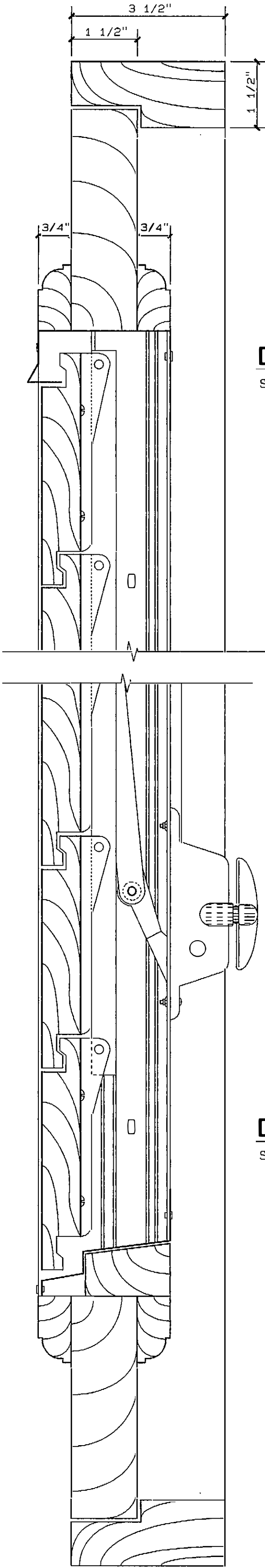
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	AC 100030	P.R. 123	UTUADO ARECIBO	P.R.	1996	129	181



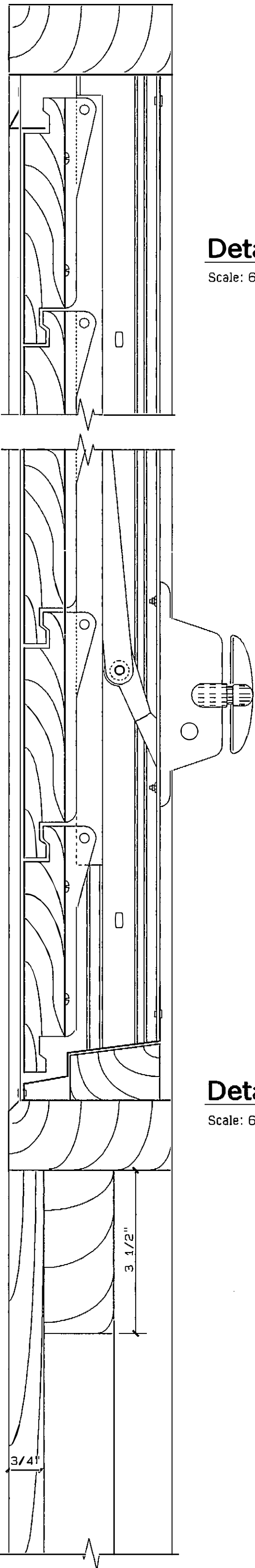
Detail 1
Scale: 6"=1'-0" A3-14



Detail 2
Scale: 6"=1'-0" A3-14

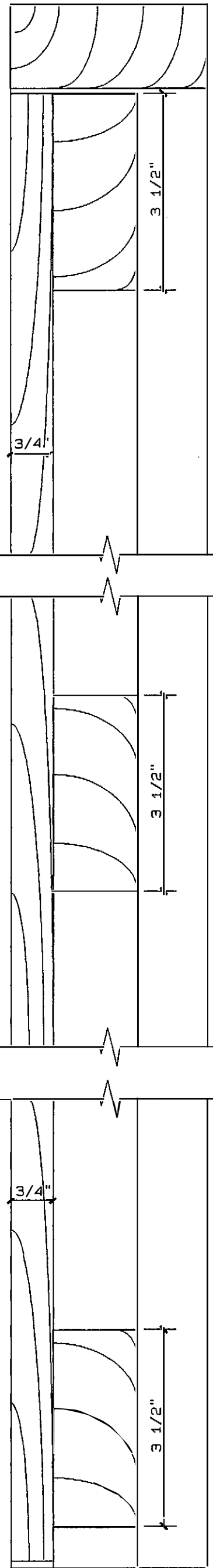


Detail 3
Scale: 6"=1'-0" A3-14



Detail 5
Scale: 6"=1'-0" A3-14

Detail 6
Scale: 6"=1'-0" A3-14



Detail 7
Scale: 6"=1'-0" A3-14

Detail 8
Scale: 6"=1'-0" A3-14

Detail 9
Scale: 6"=1'-0" A3-14

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PUERTO RICO

DATE

REVISIONS

SCALE: 6"=1'-0"

Door & Window Details
Building #3

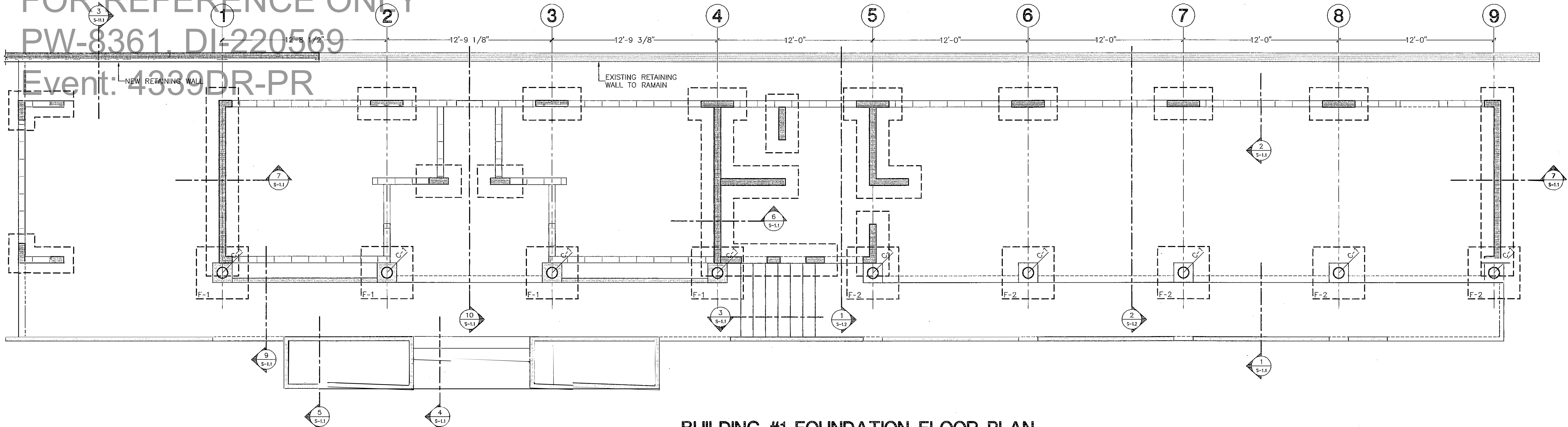
A3
14

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	130	181

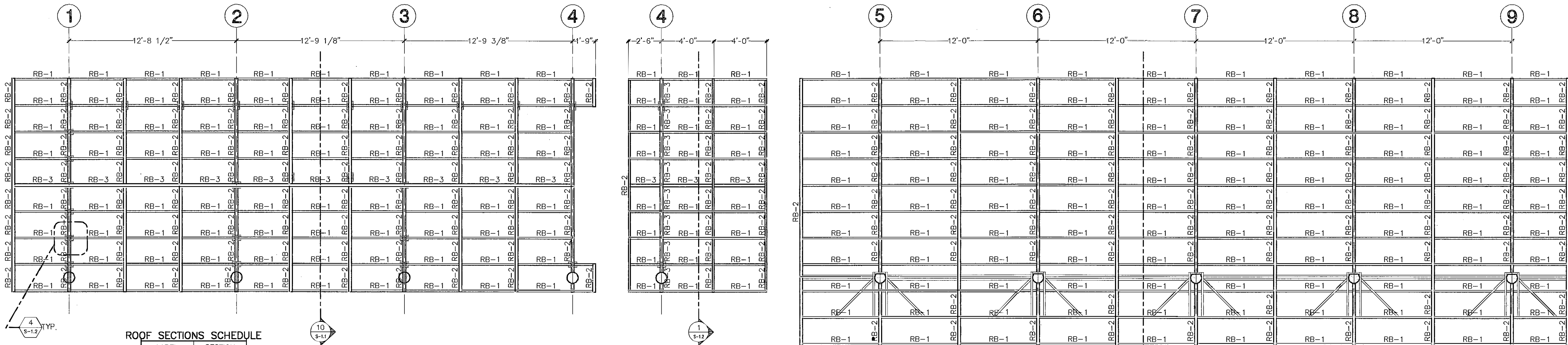
FOR REFERENCE ONLY

PW-8361, DI-220569

Event: 4339DR-PR



BUILDING #1 FOUNDATION FLOOR PLAN
SCALE: 1/4"=1'-0"

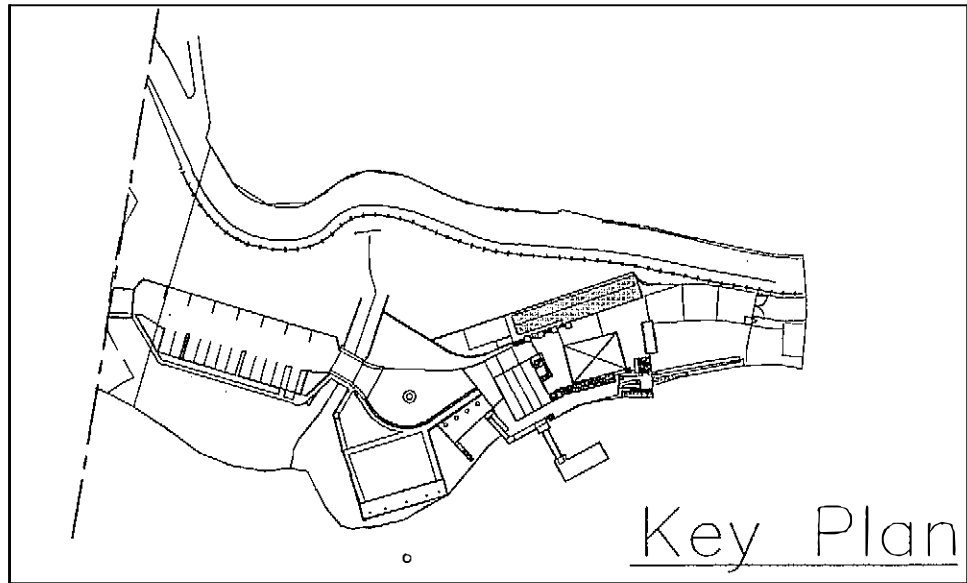


ROOF SECTIONS SCHEDULE

LABEL	SECTION
RB-1	2"x8"
RB-2	2"x10"
RB-3	3"x10"
C-1	10"x6"

NOTE:
- FINAL DIMENSION TO BE VERIFIED
WITH ARCHITECTURAL DRAWINGS

BUILDING #1 PARTIAL ROOF FRAMING PLANS
SCALE: 1/4"=1'-0"



Key Plan

CARLOS I. CABRÉ & ASSOCIATES
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1767 JESÚS T. PIÑERO AVENUE
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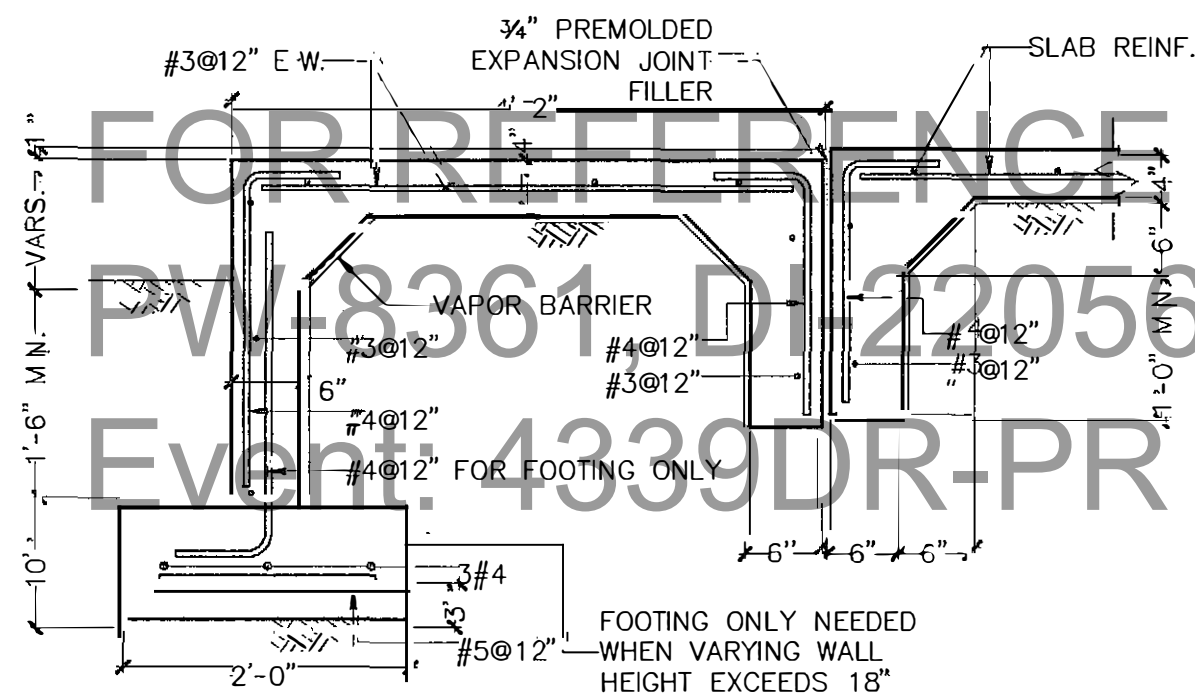
DATE REVISIONS

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

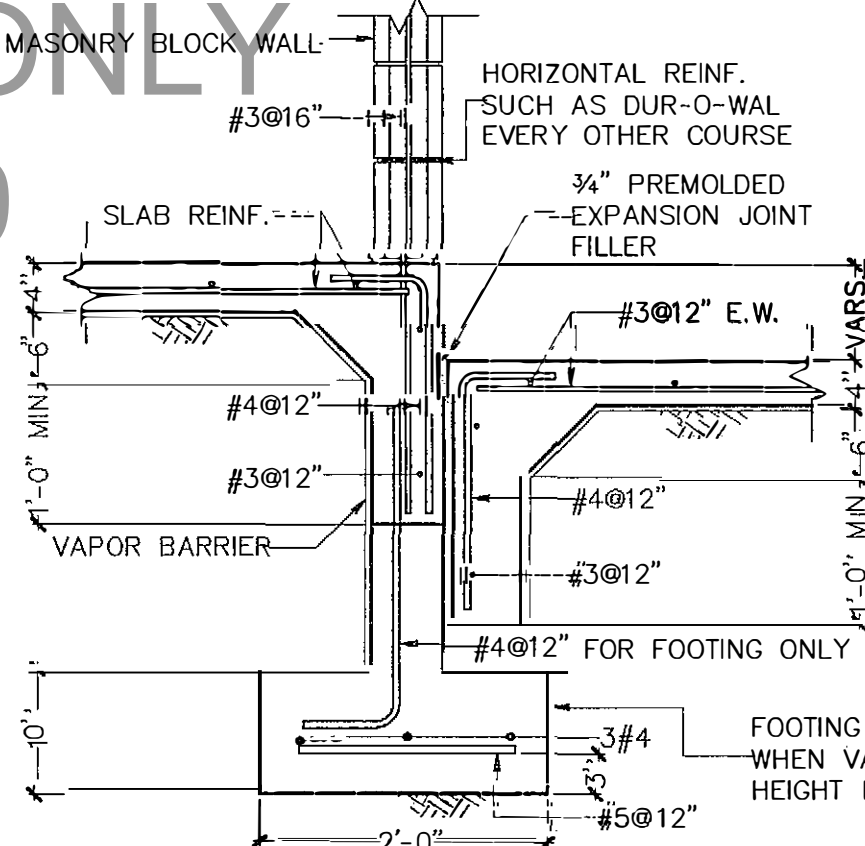
BUILDING #1 PLANS

S
1.0

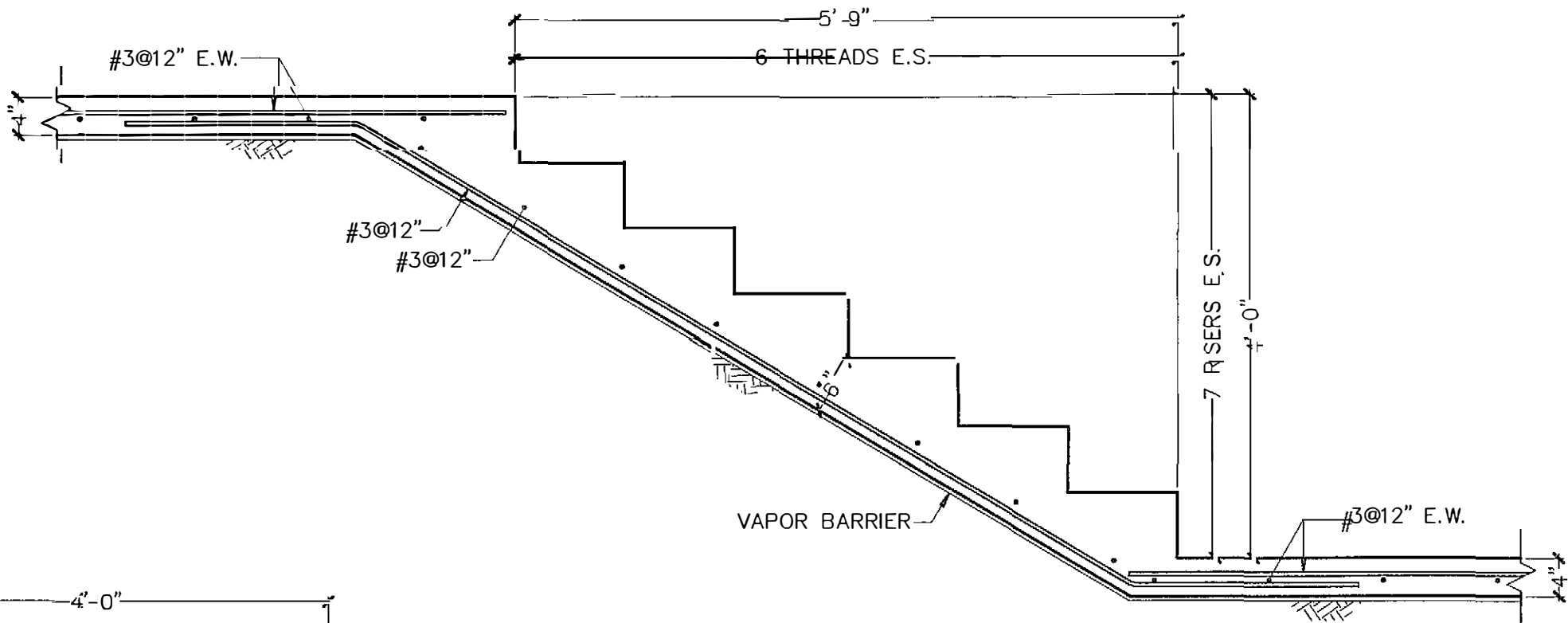
FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	131	181



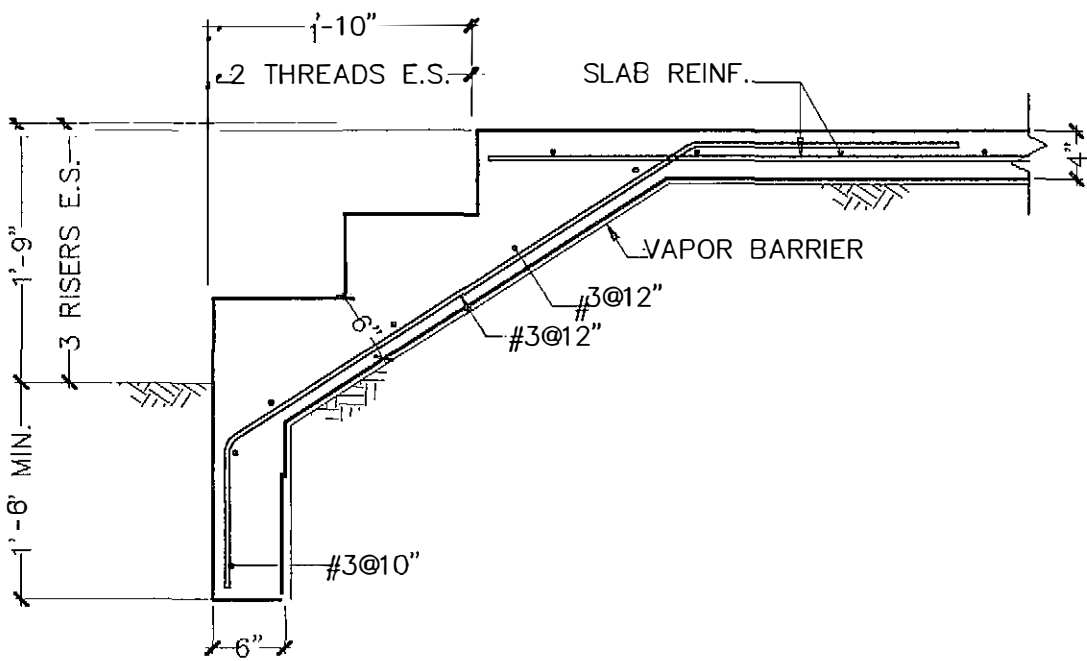
SECTION 1
SCALE: 3/4"=1'-0"



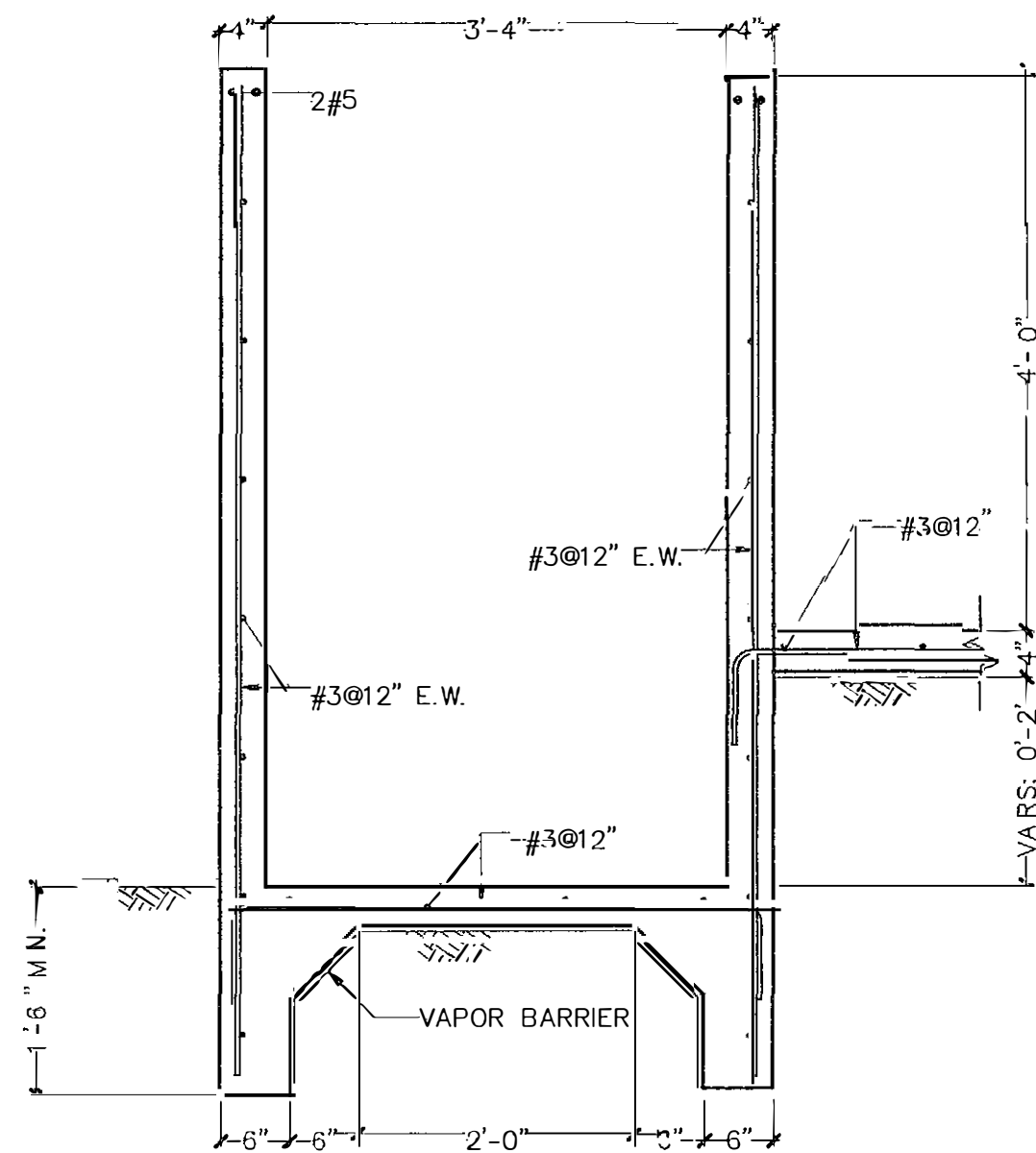
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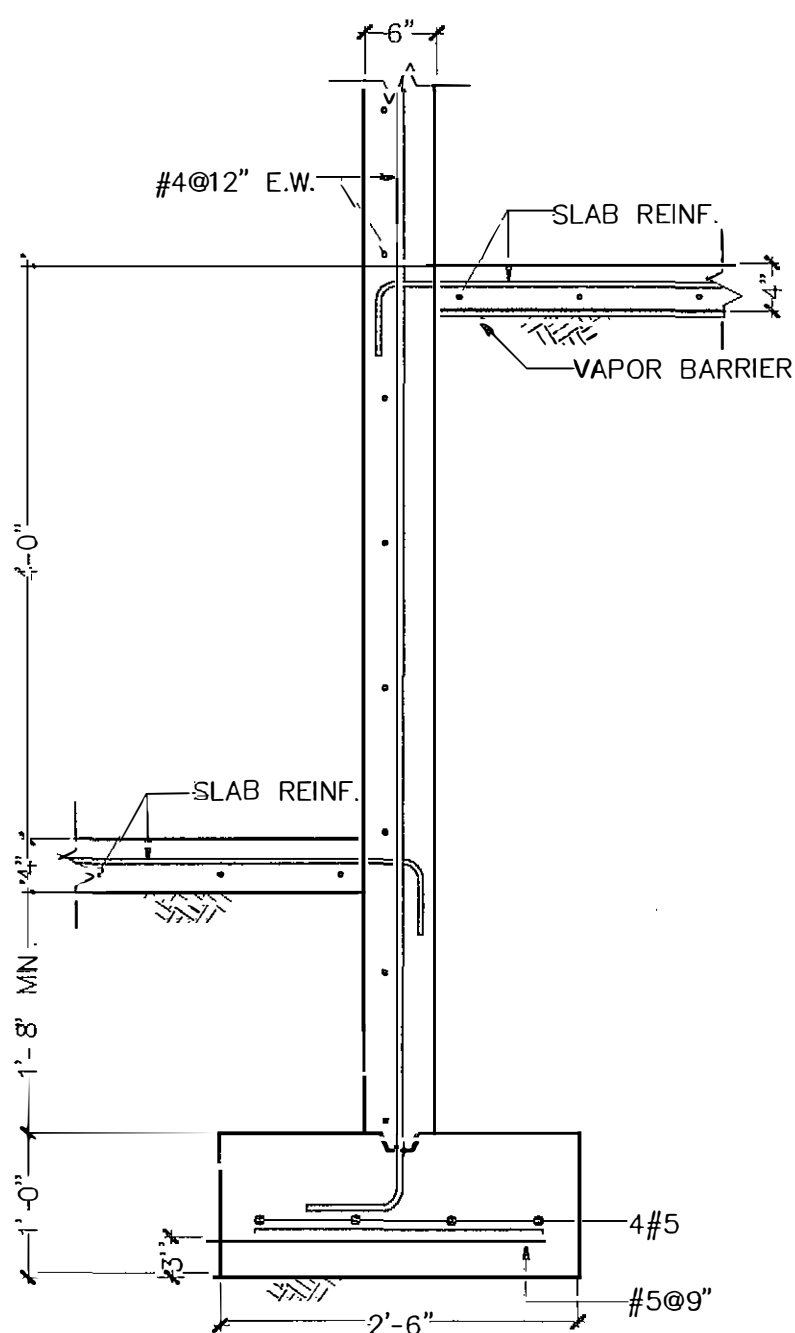
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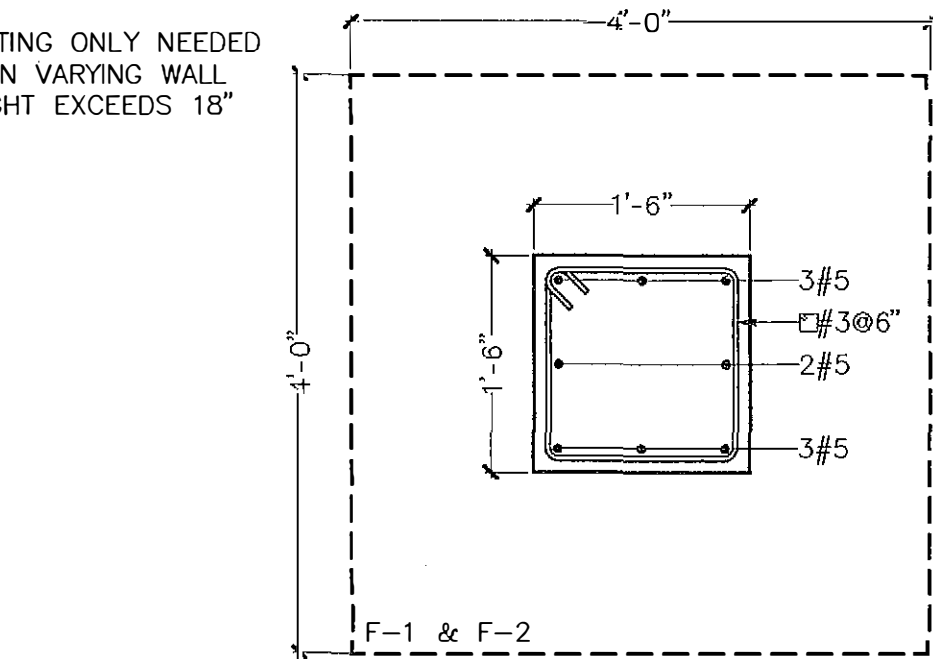
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SCALE: 3/4"=1'-0"



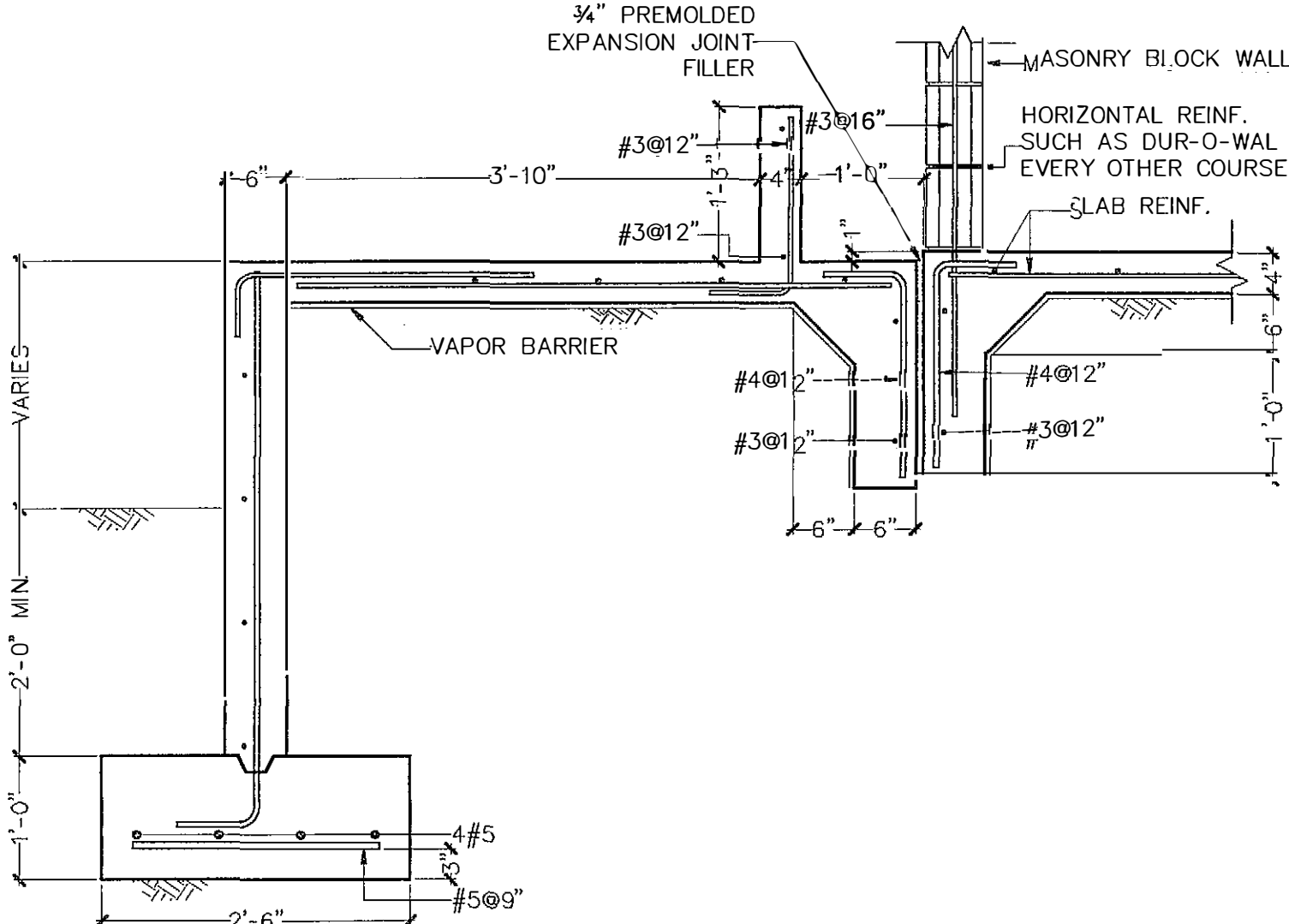
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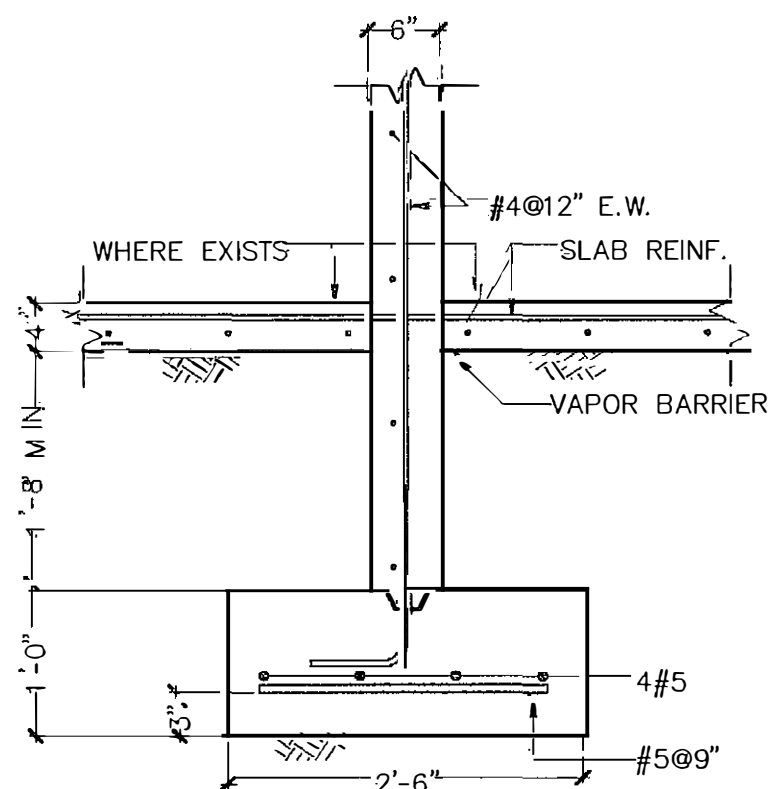
SECTION 6
SCALE: 3/4"=1'-0"



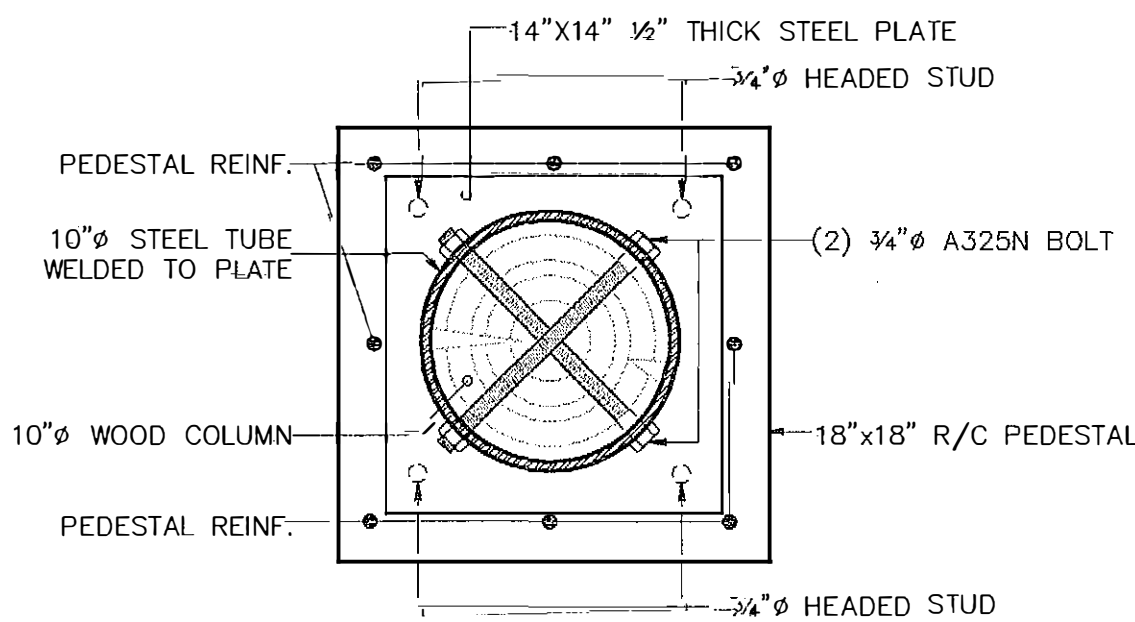
FOOTING DETAIL F-2
SCALE: 3/4"=1'-0"



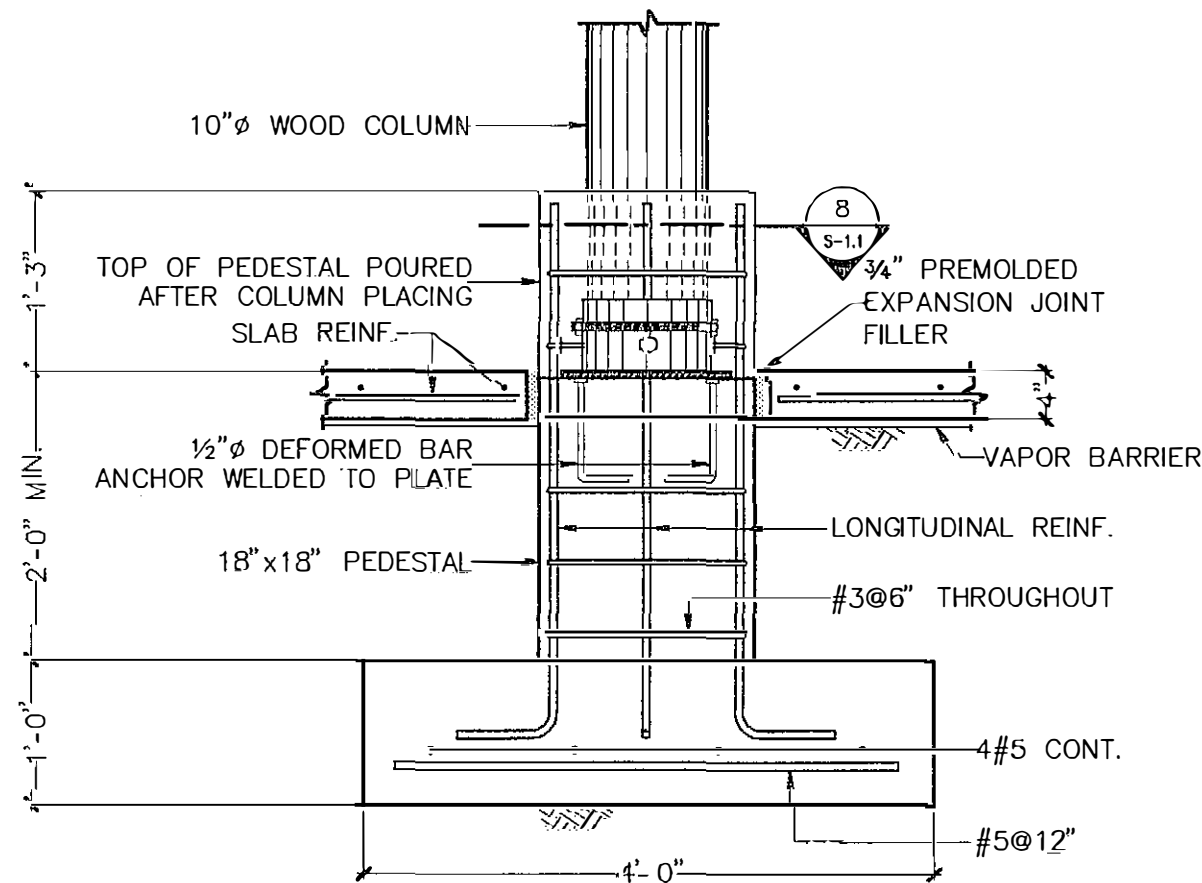
SECTION 9
SCALE: 3/4"=1'-0"



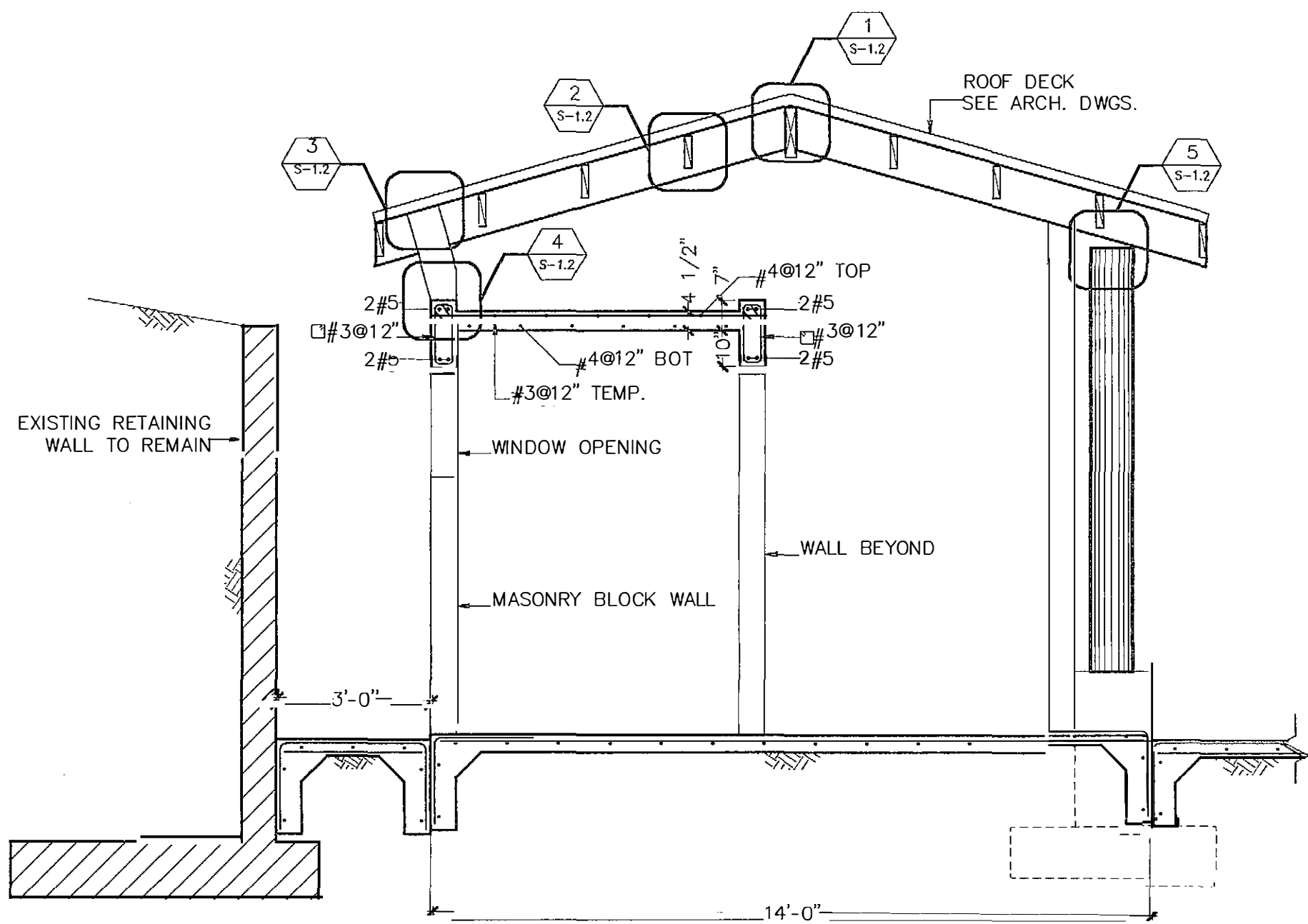
SECTION 7
SCALE: 3/4"=1'-0"



SECTION 8
SCALE: 1 1/2"=1'-0"



FOOTING DETAIL F-1
SCALE: 3/4"=1'-0"



SECTION 10
SCALE: 3/4"=1'-0"

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DATE REVISIONS

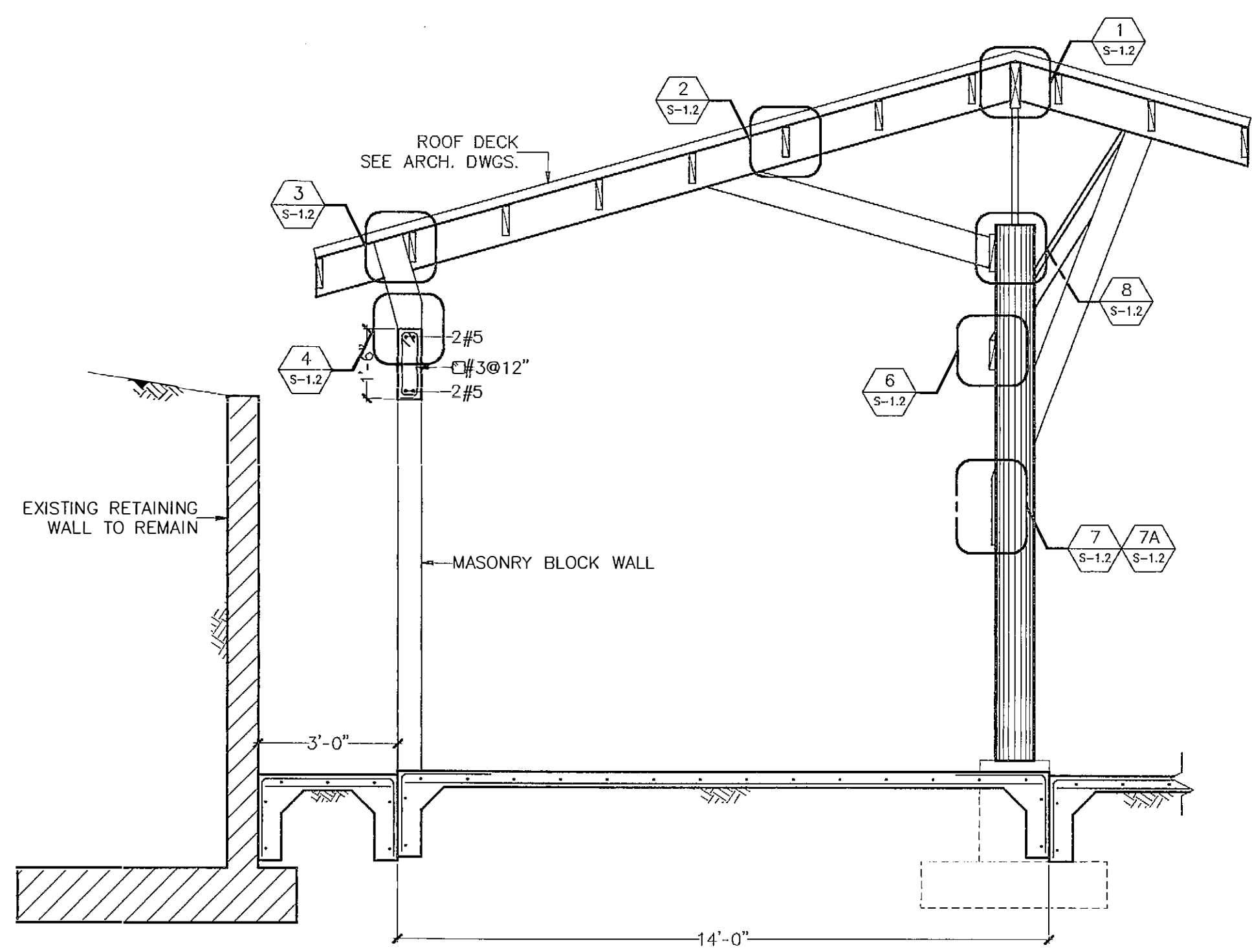
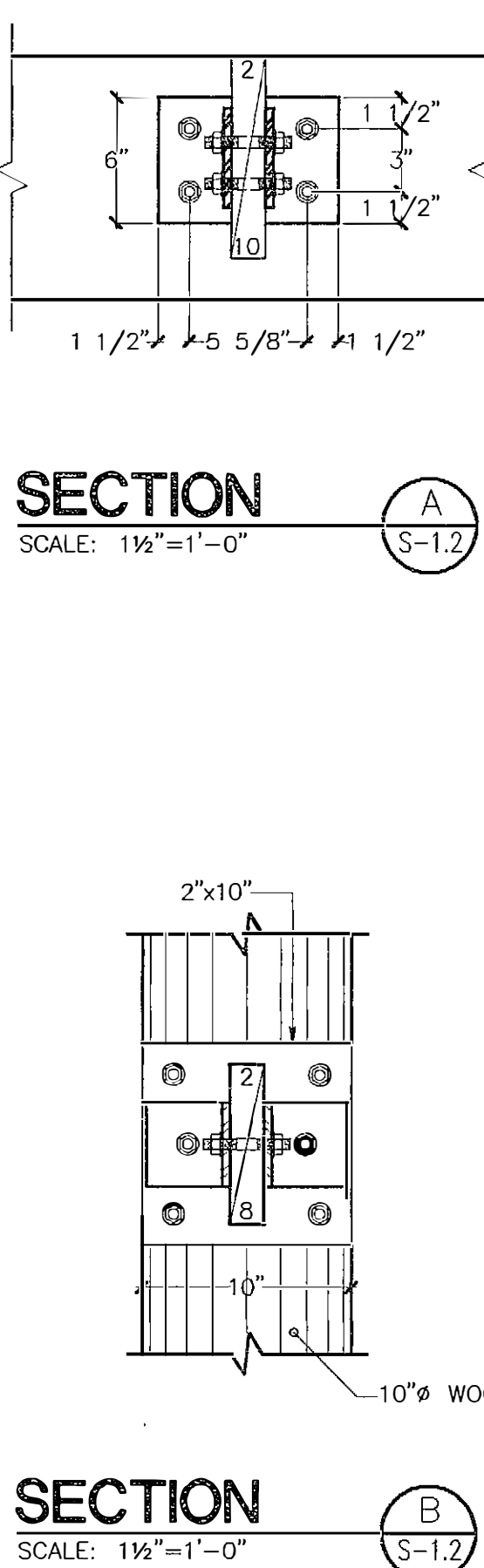
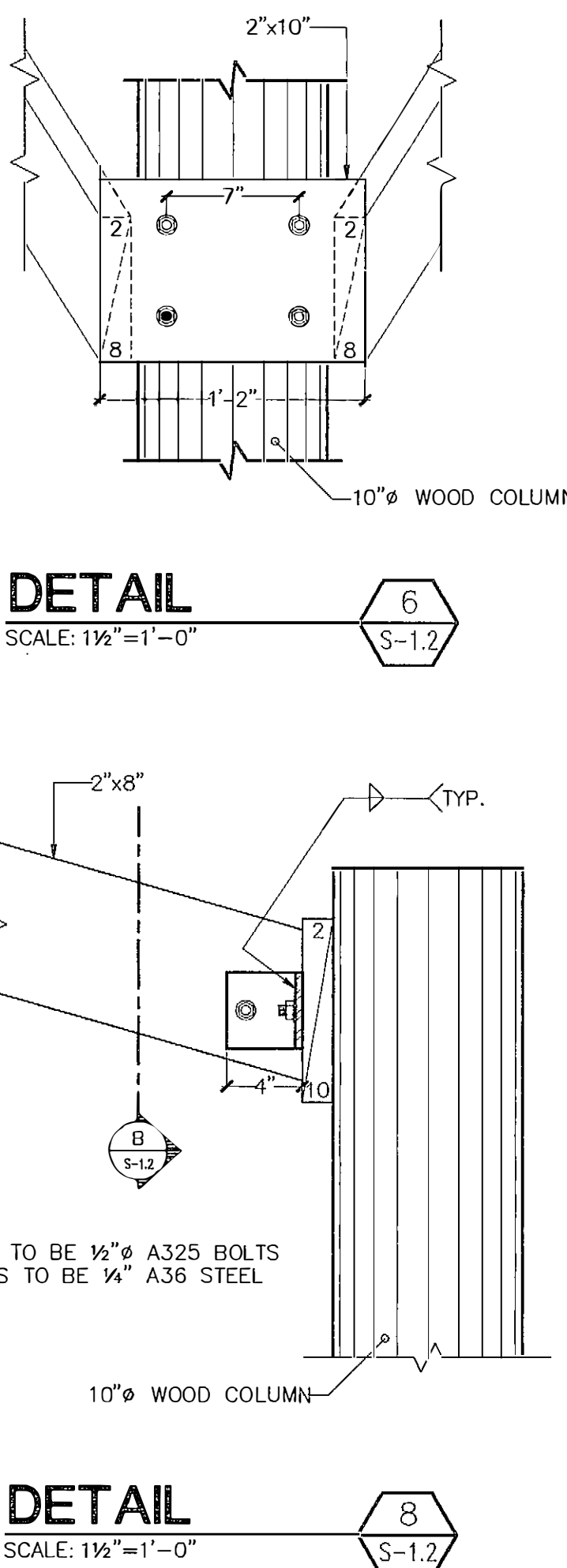
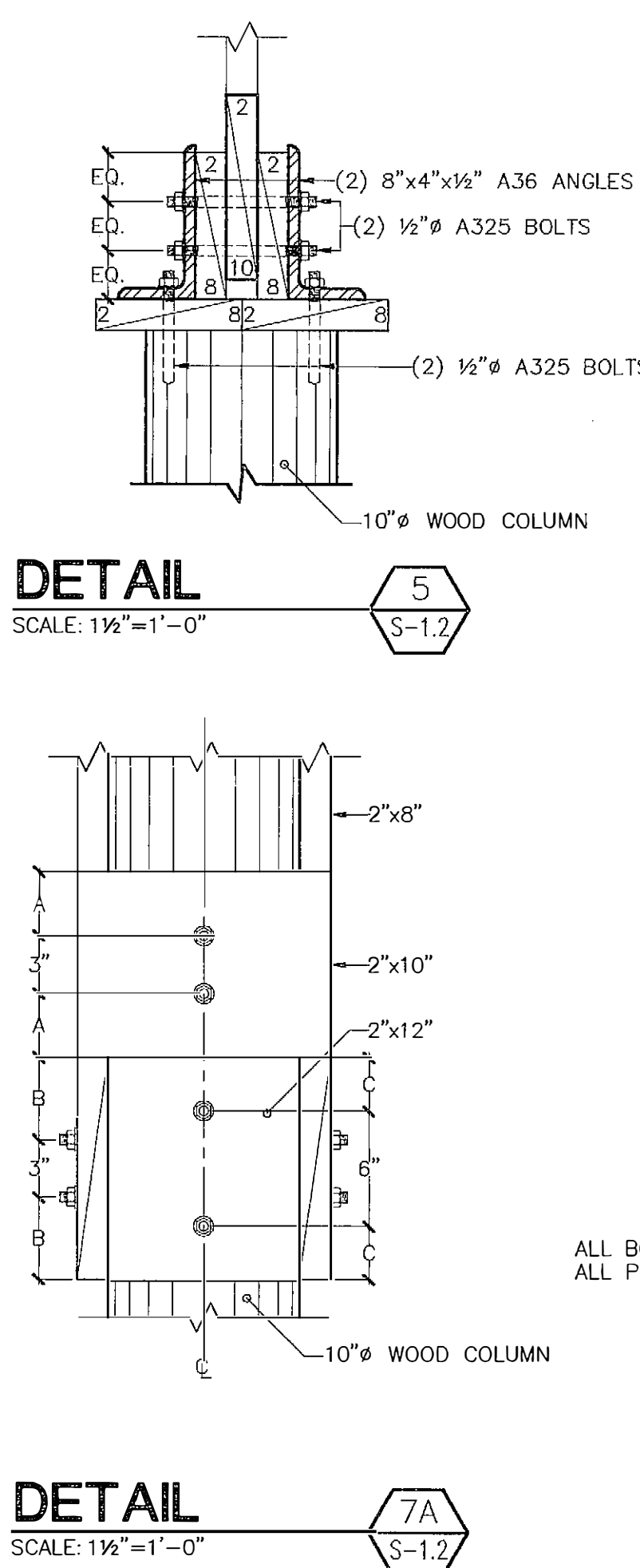
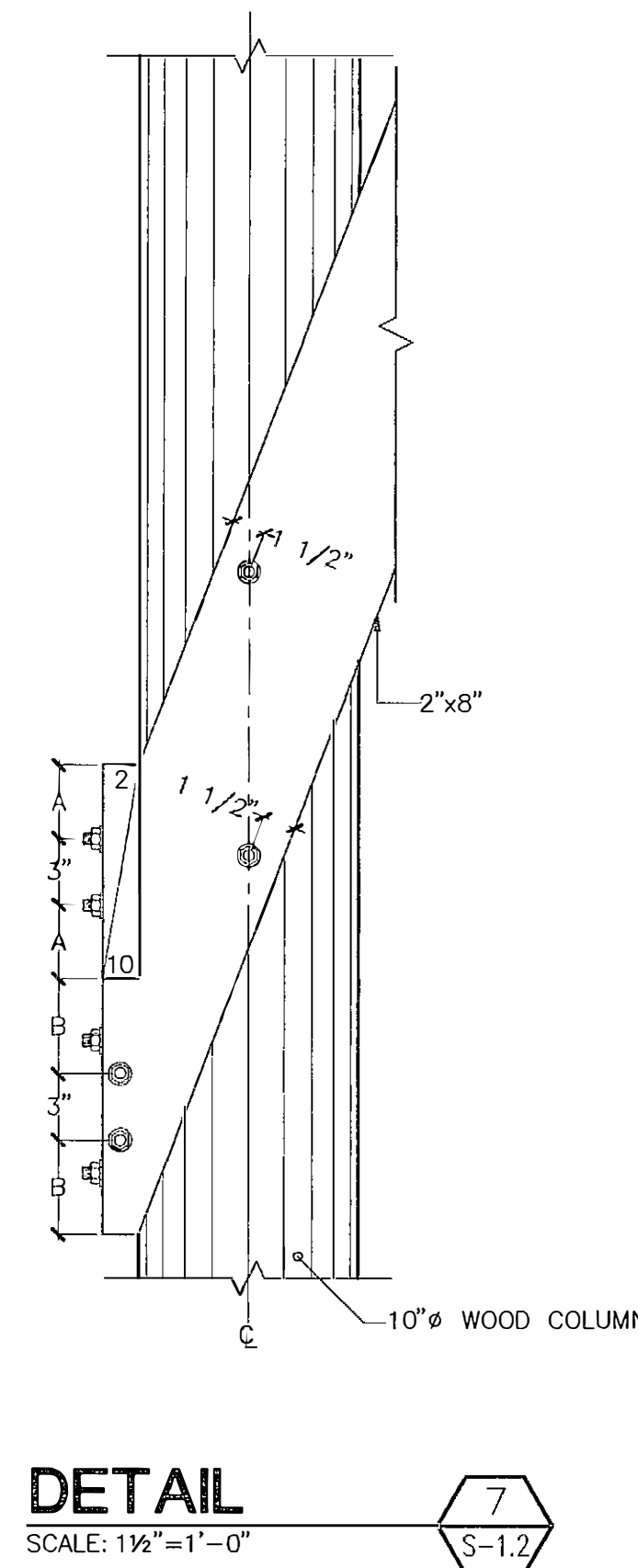
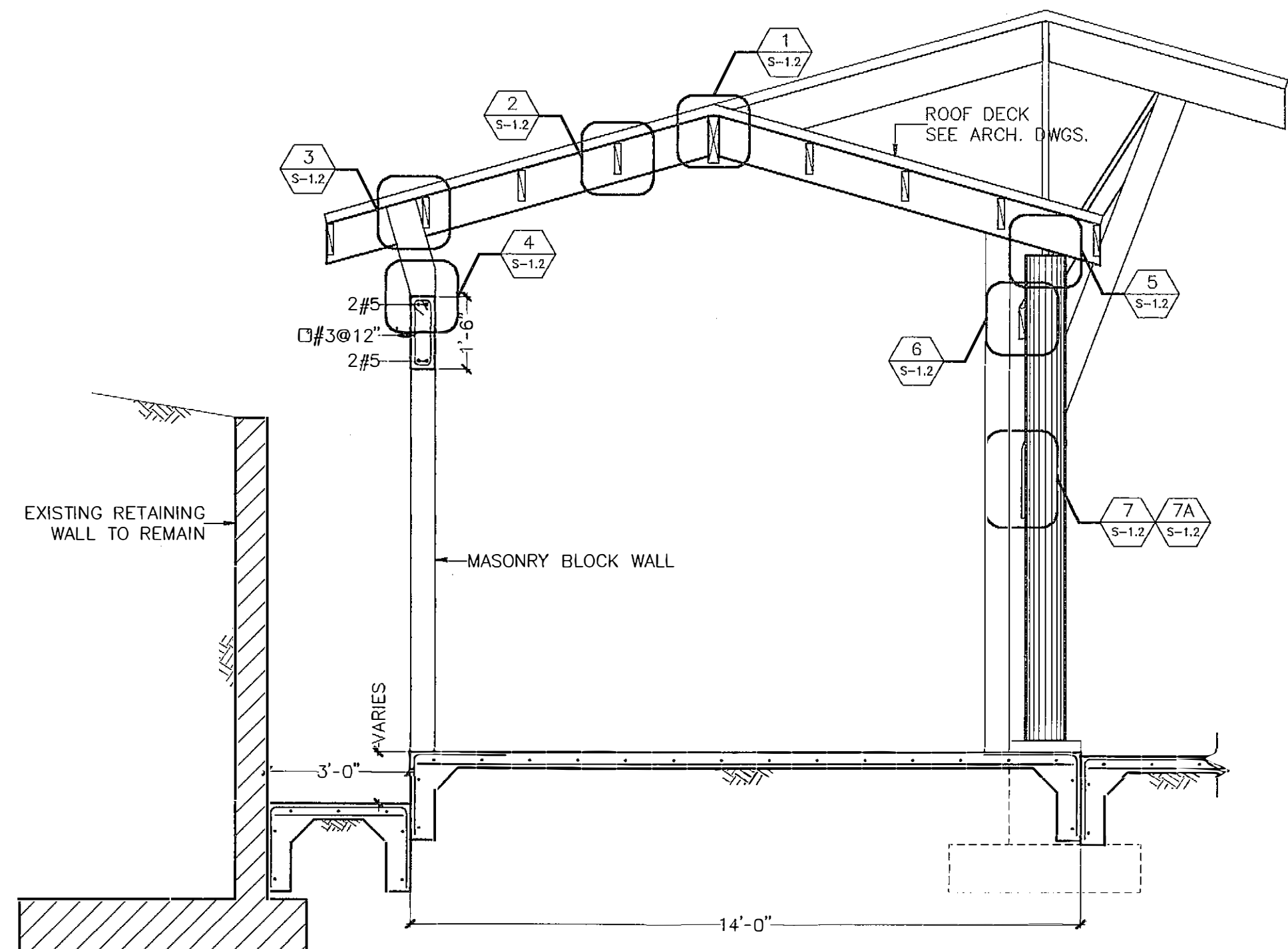
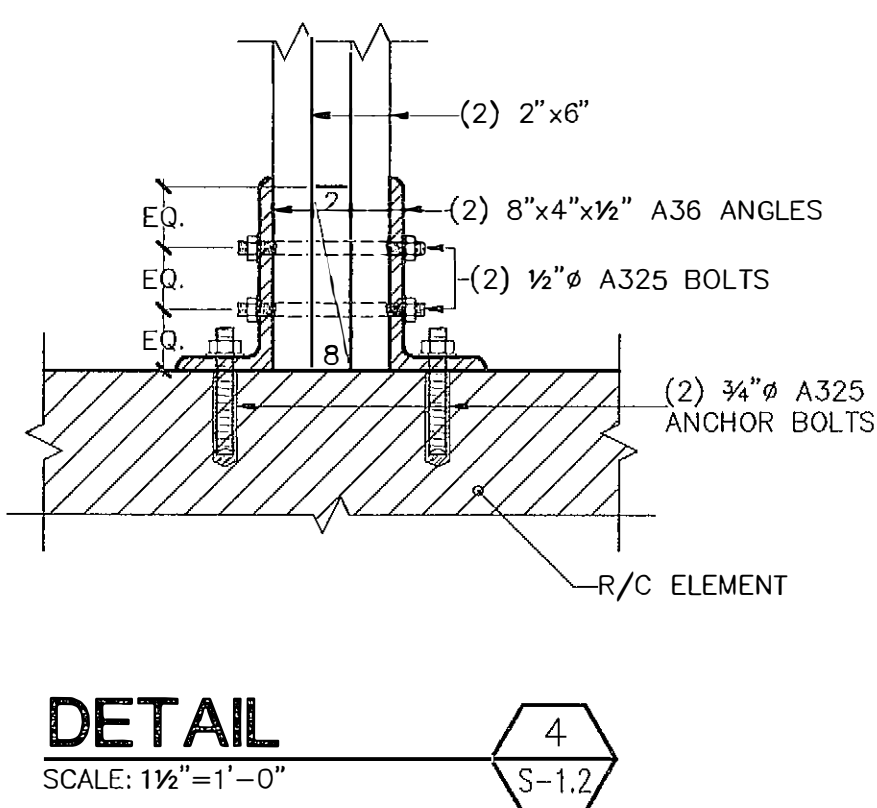
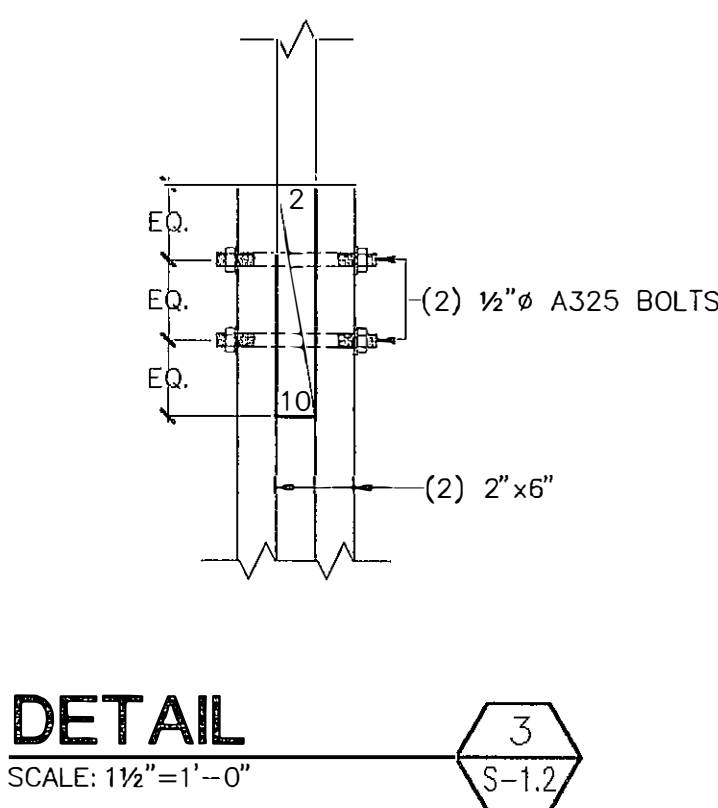
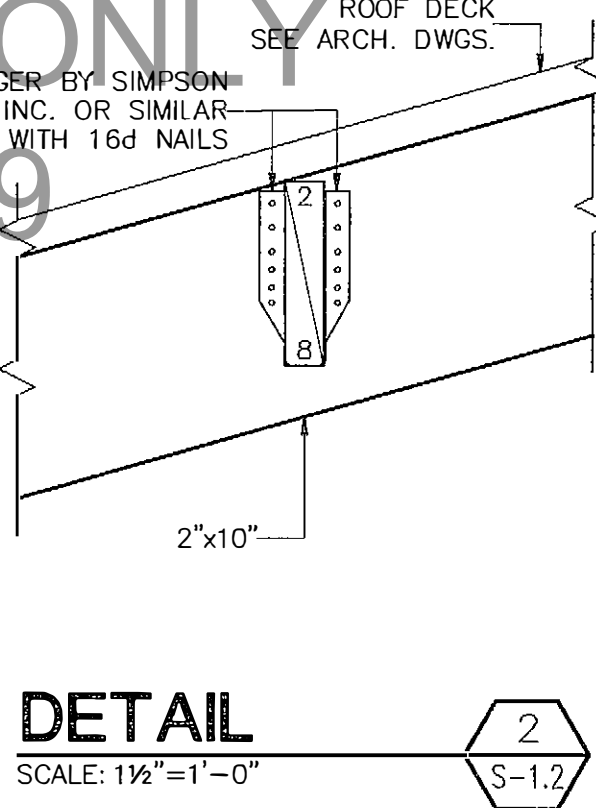
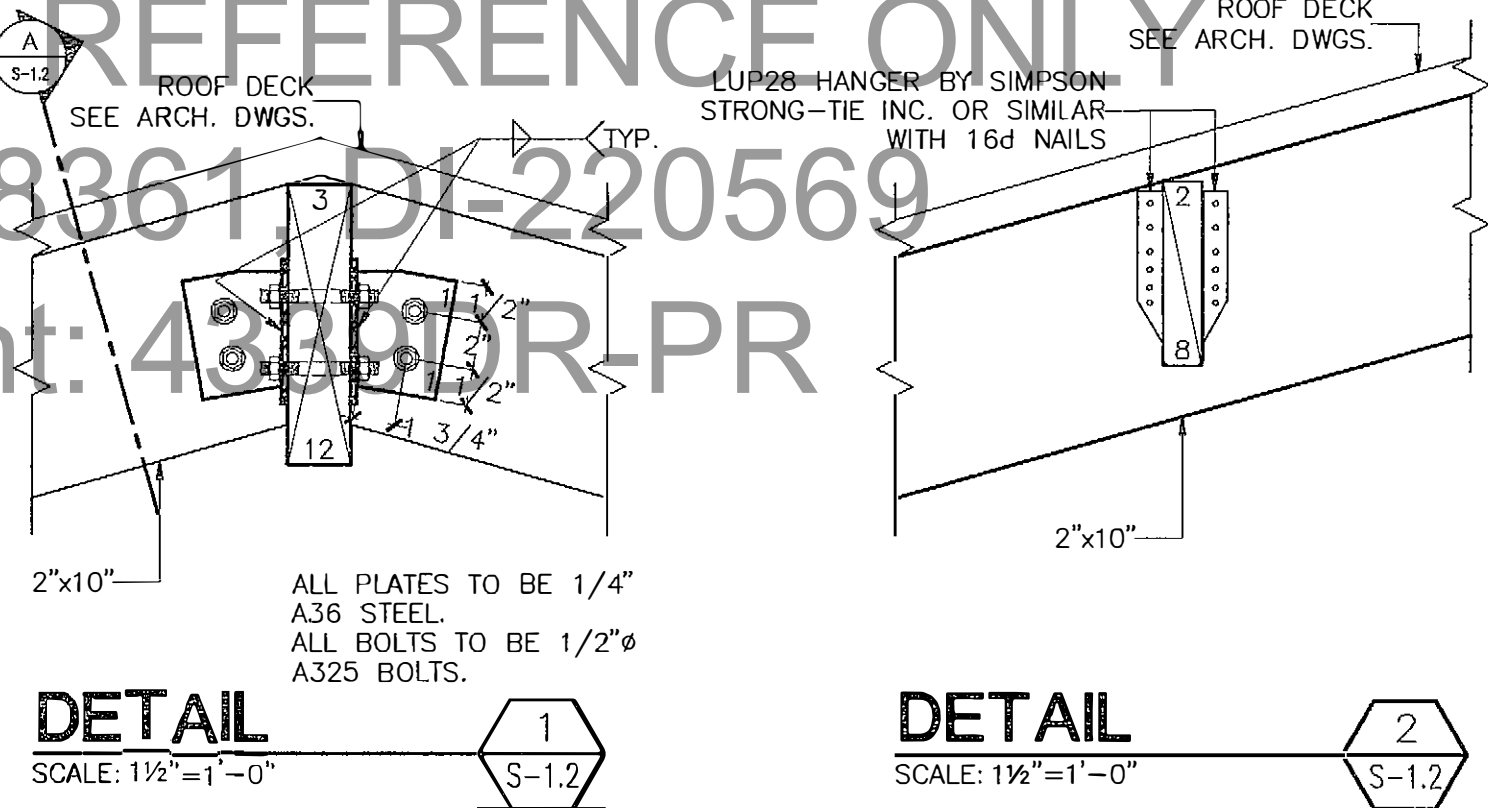
SCALE:
AS SHOWN

BUILDING #1
SECTIONS AND DETAILS

S
1.1

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	132	181

FOR REFERENCE ONLY
PW-8361-DI-220569
Event: 4330R-PR



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CAPARRA HEIGHTS, PUERTO RICO, 00920

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

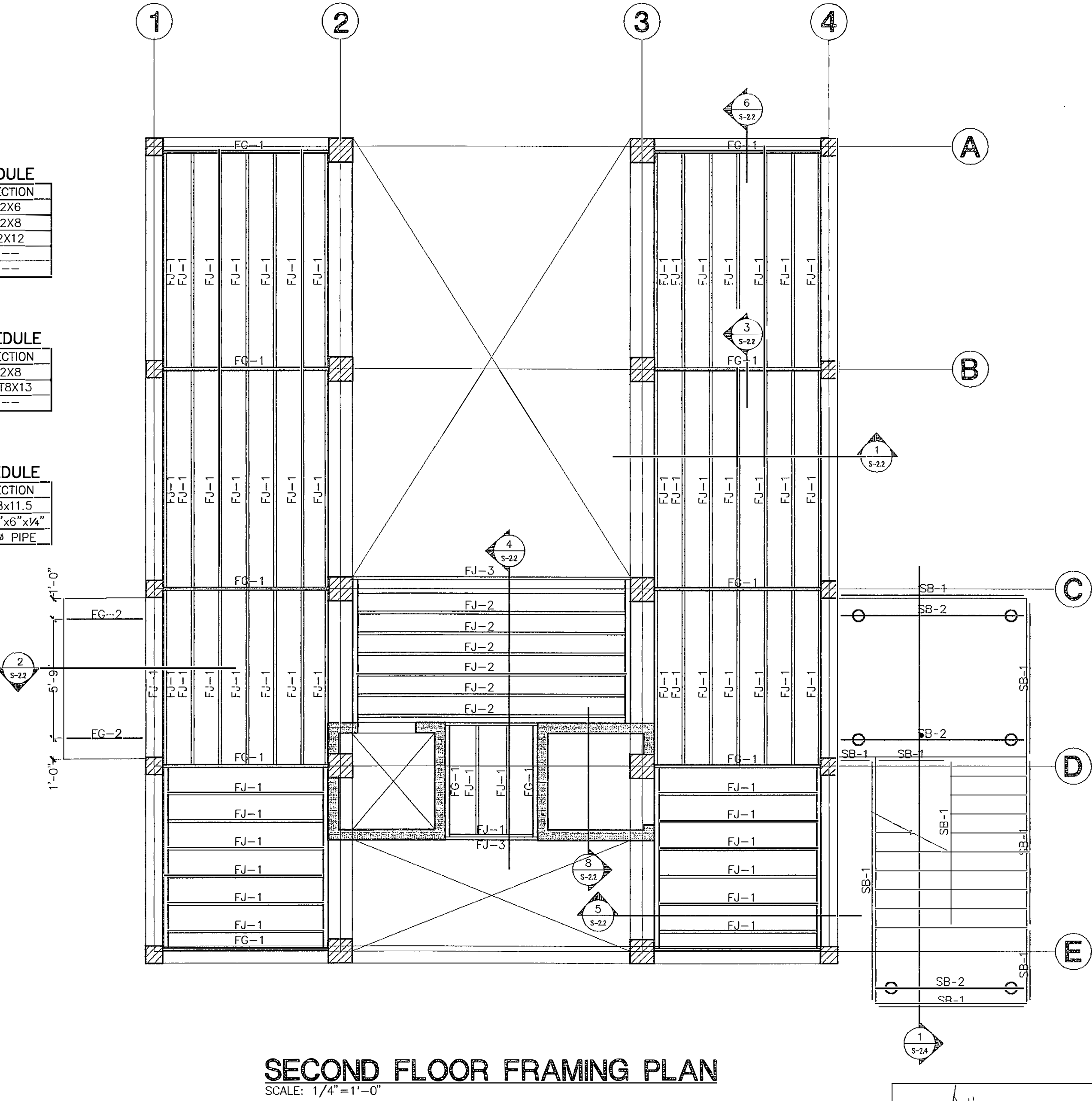
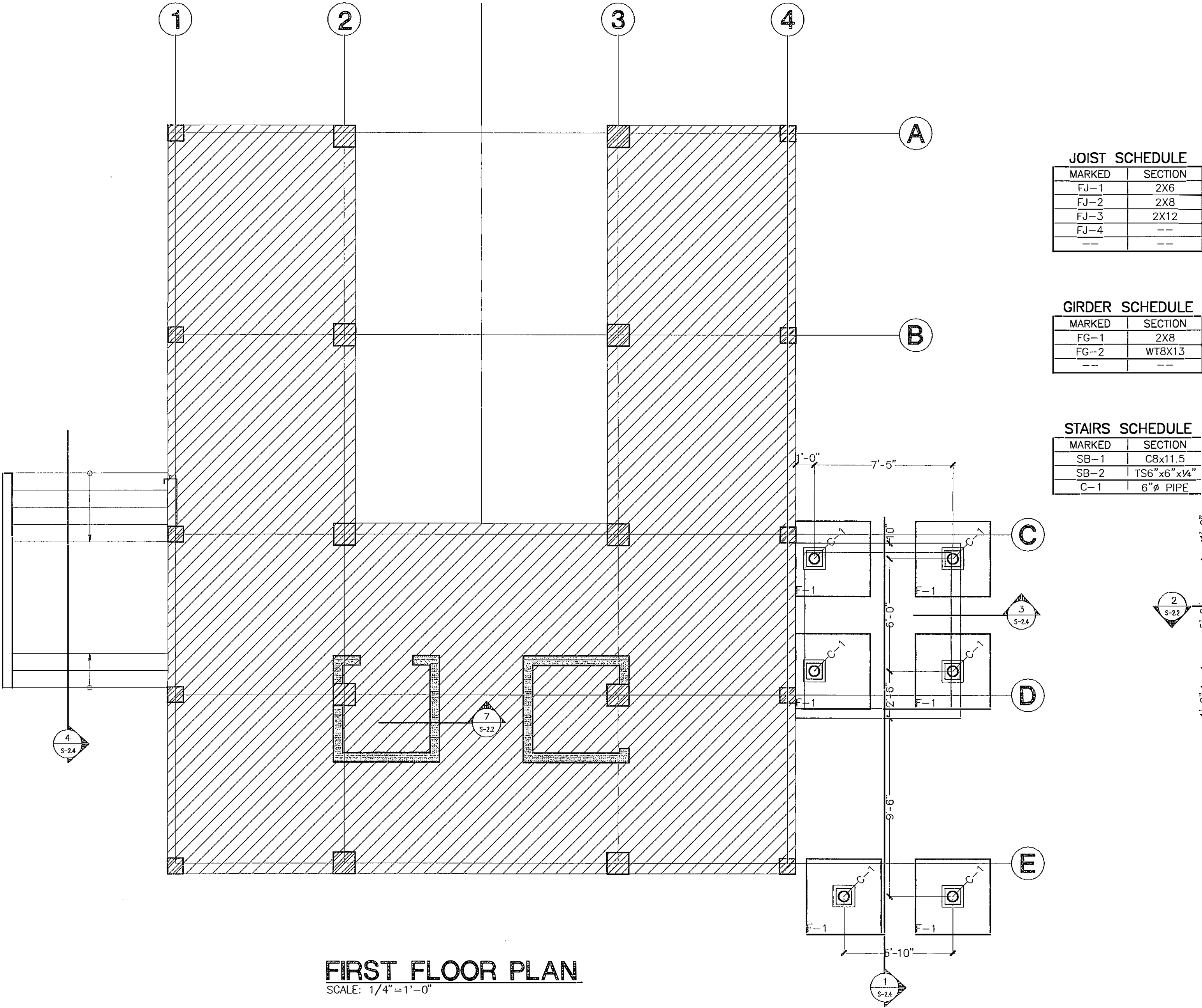
EMBARCADERO LAGO DOS Bocas
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE: AS SHOWN
BUILDING #1
SECTIONS AND DETAILS
S
1.2

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED. AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	133	181



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1767 JESÚS T. PIÑERO AVENUE
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UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

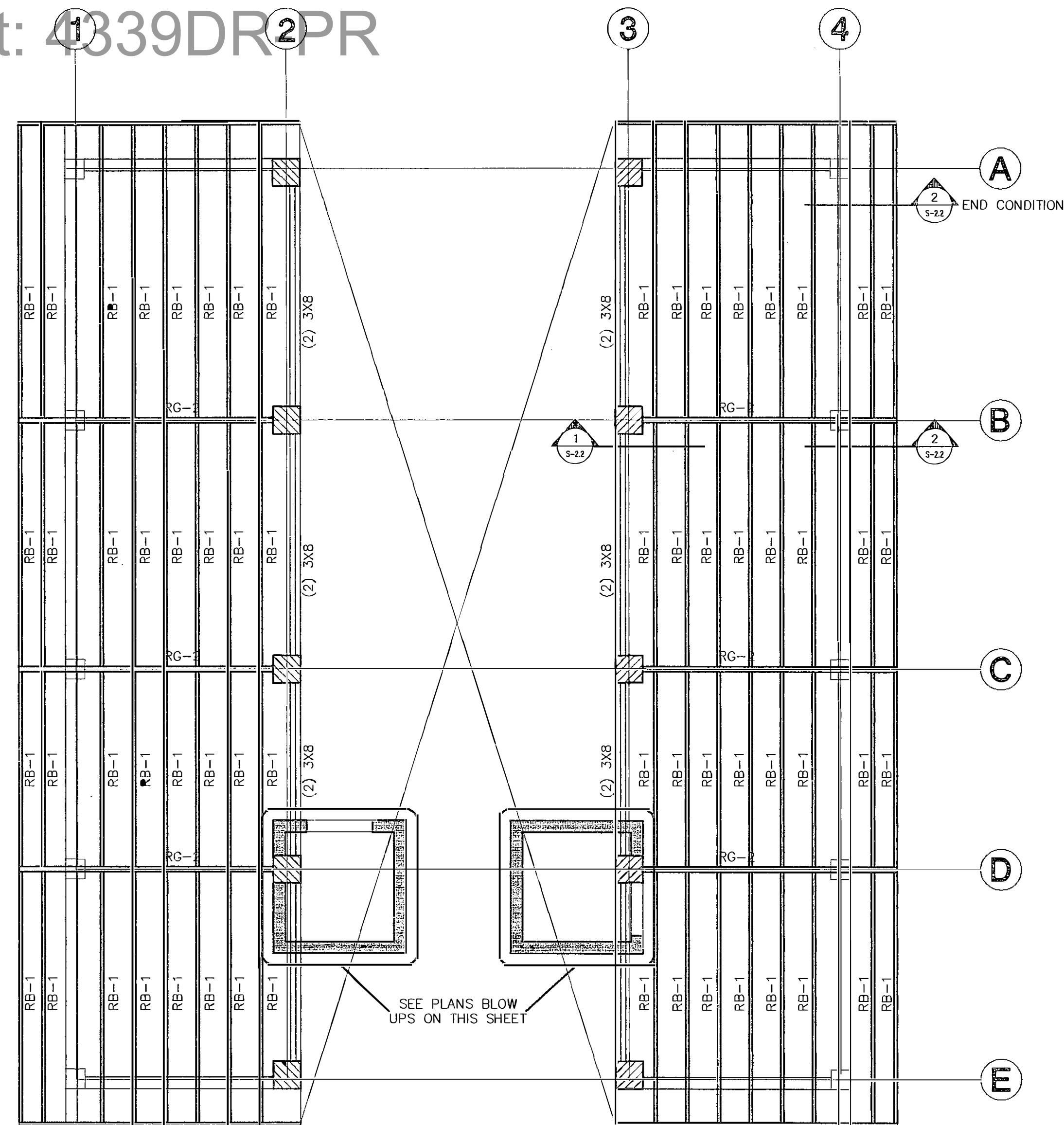
SCALE:
1/4"=1'-0"

BUILDING #2 FLOOR PLANS

S
2.0

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DRPR

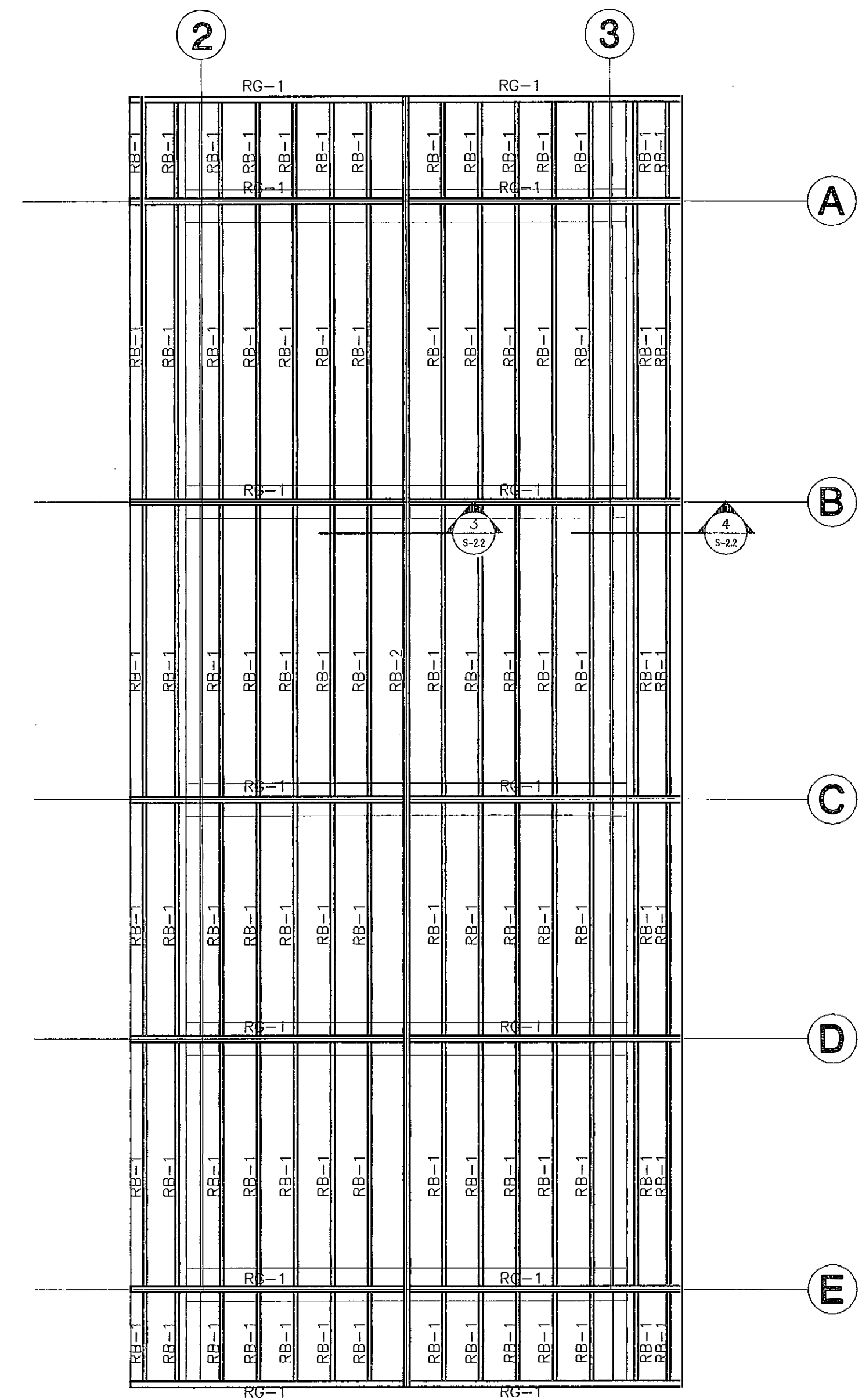
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		P.R. 10	UTUADO ARECIBO	P.R.	1996	134	181



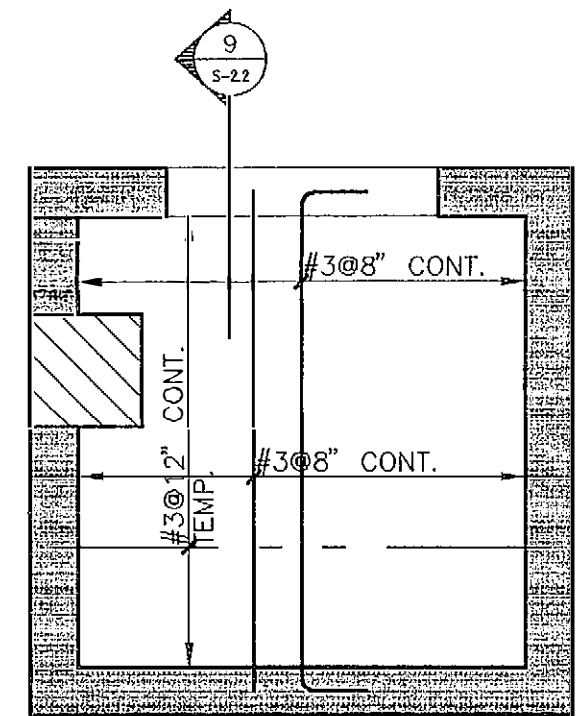
PARTIAL ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"

BEAM SCHEDULE	
MARKED	SECTION
RB-1	2X6
RB-2	2X10
RB-3	--
RB-4	--
--	--

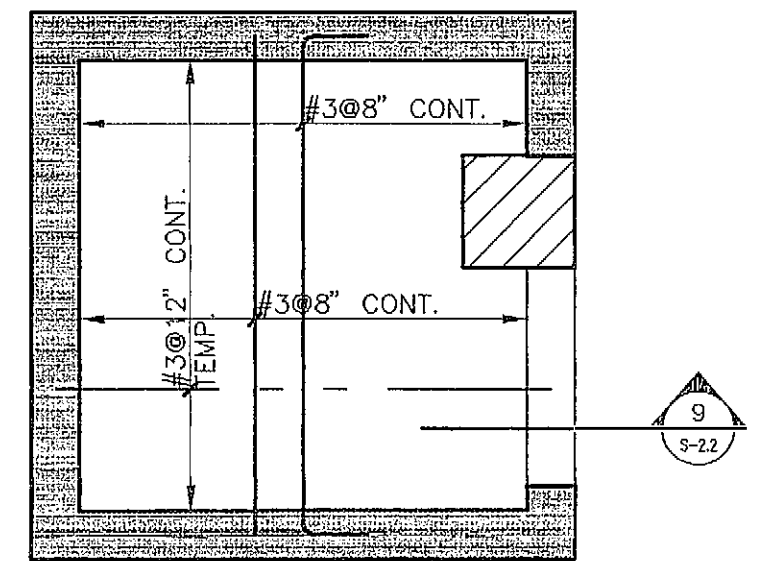
GIRDER SCHEDULE	
MARKED	SECTION
RG-1	3X8
RG-2	3X8
--	--



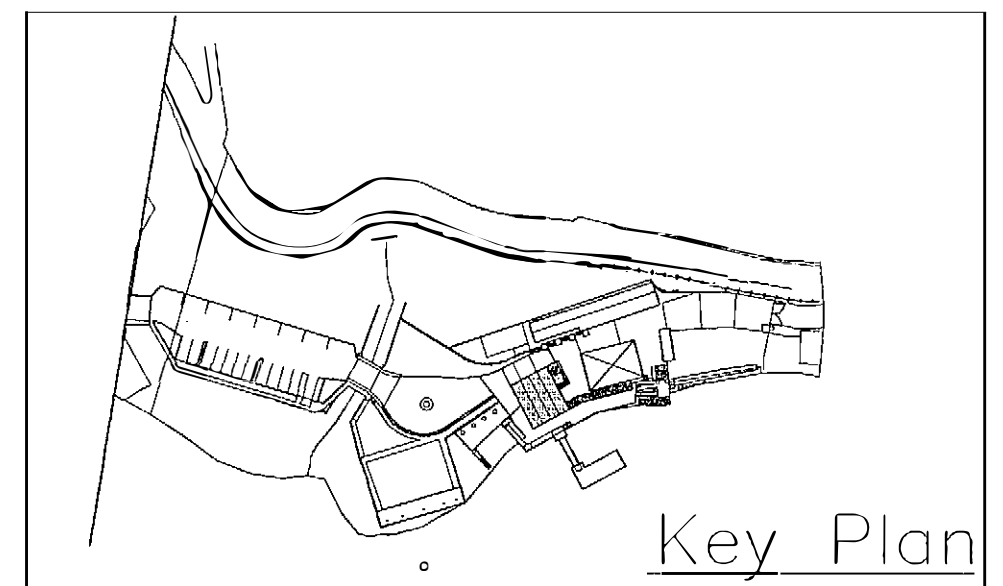
PARTIAL ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



PORCH-LIFT ROOF PLAN
SCALE: 1/2"=1'-0"



STORAGE ROOF PLAN
SCALE: 1/2"=1'-0"



Key Plan

CARLOS I. CABRÉ & ASSOCIATES
ENGINEERING CONSULTANTS
1767 JESÚS T. PINERO AVENUE
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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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PUERTO RICO

DATE	REVISIONS

SCALE:
AS SHOWN

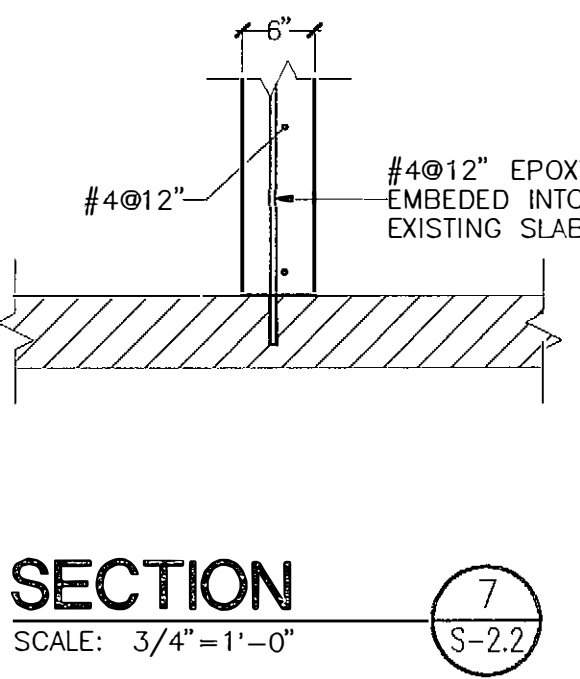
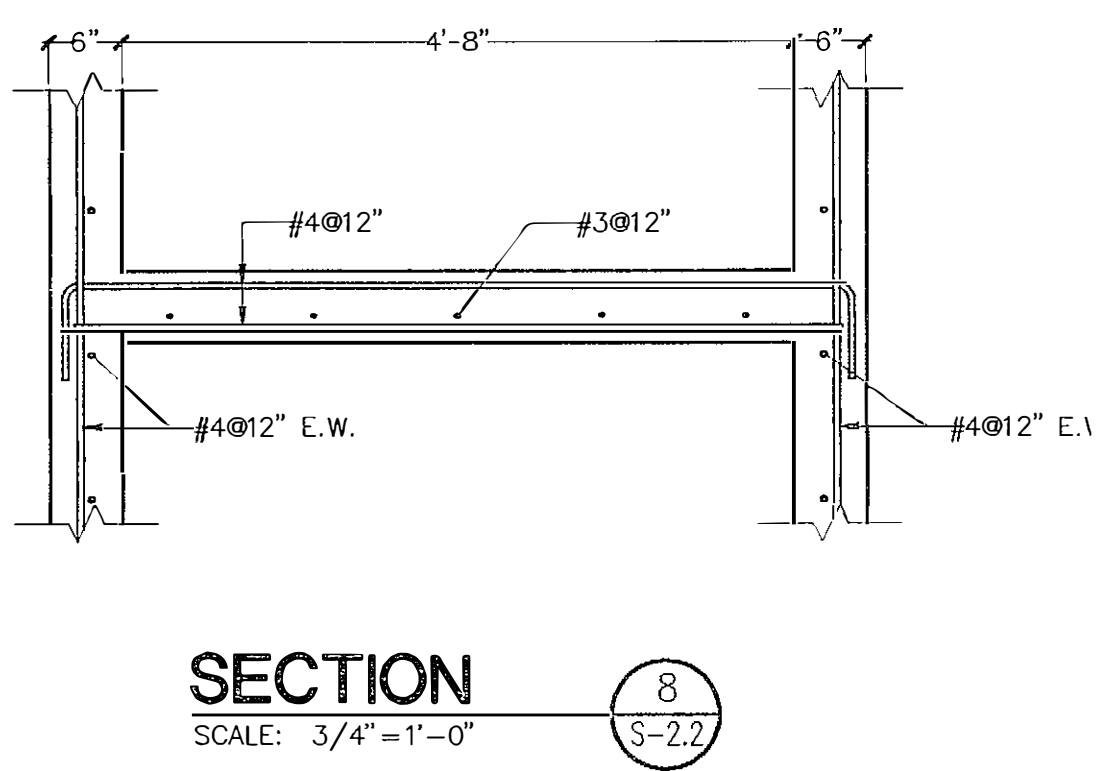
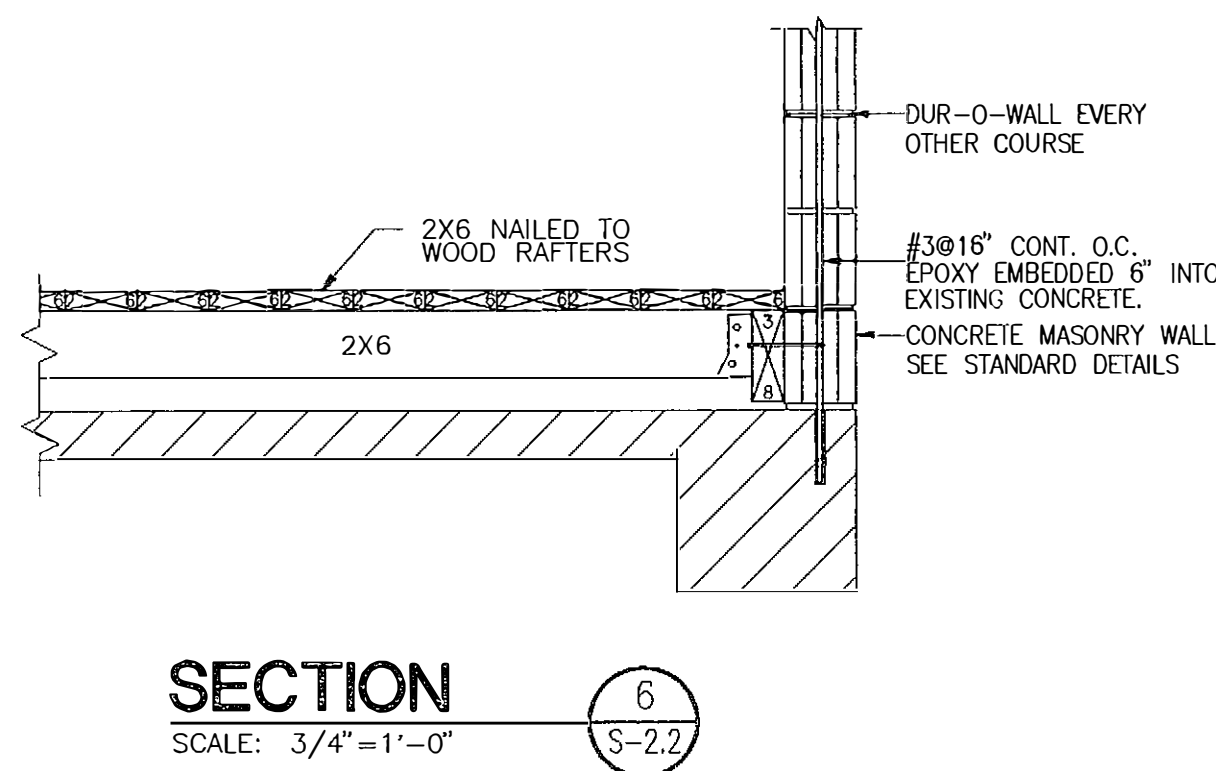
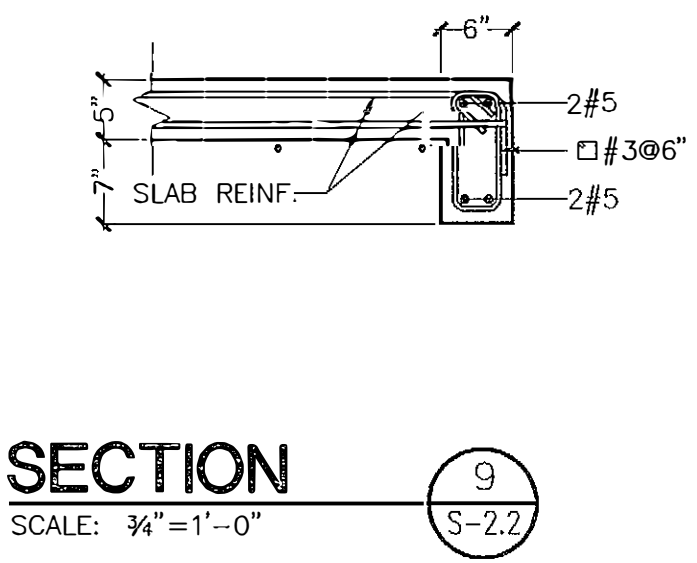
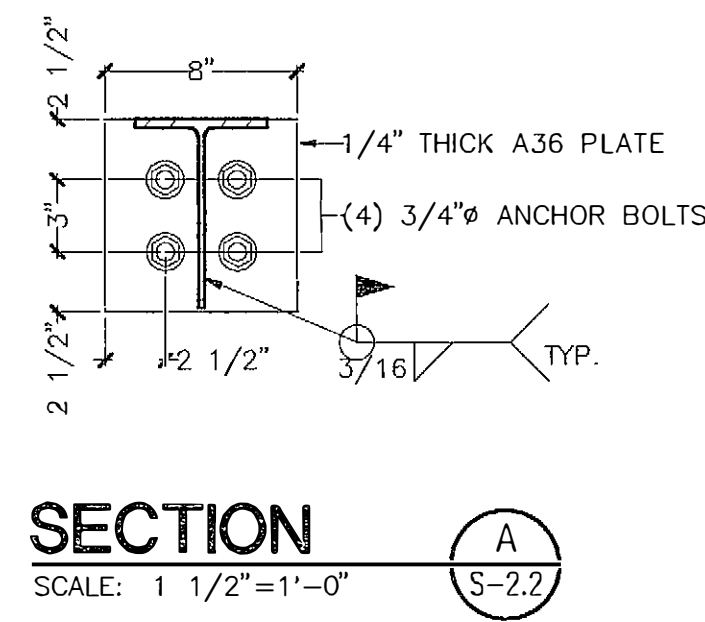
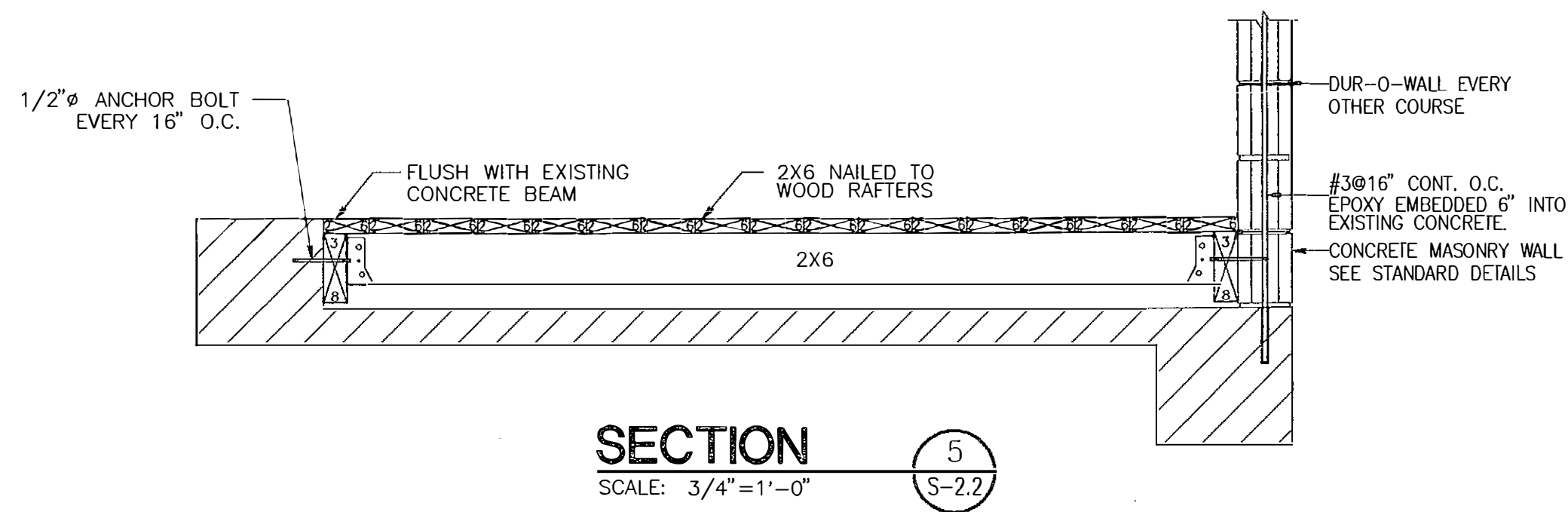
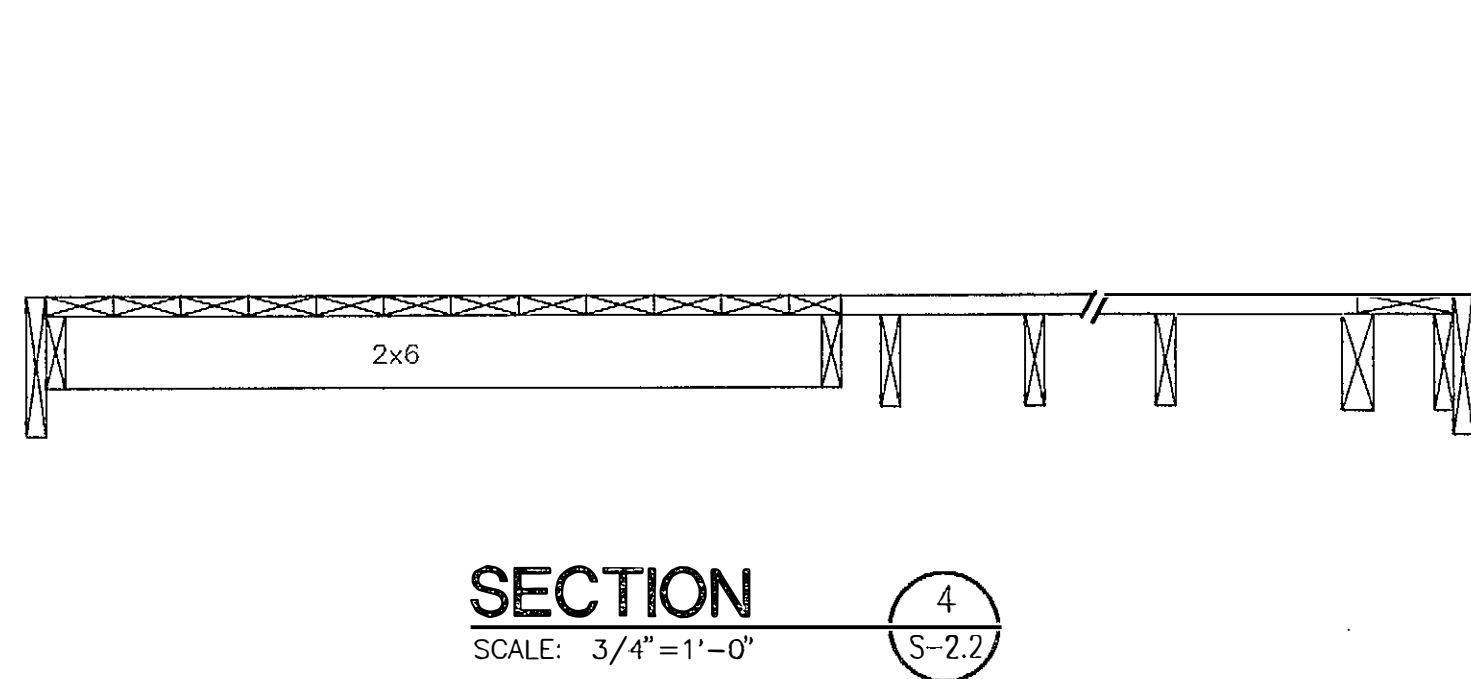
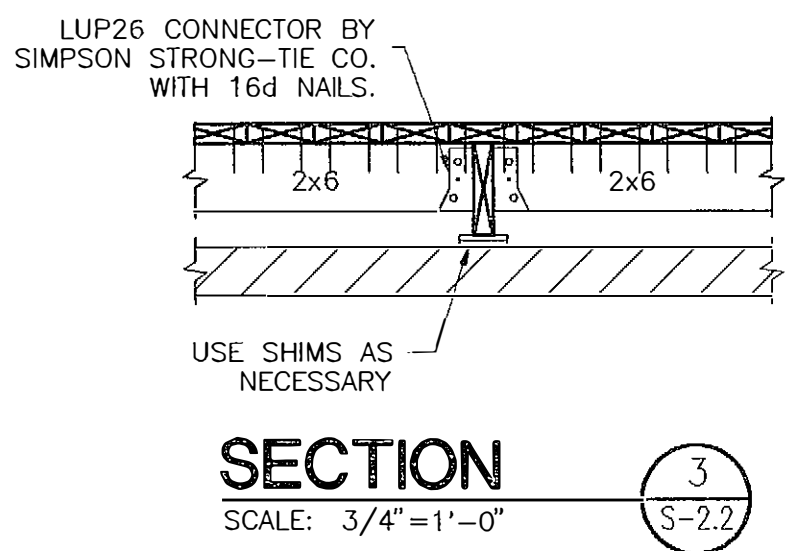
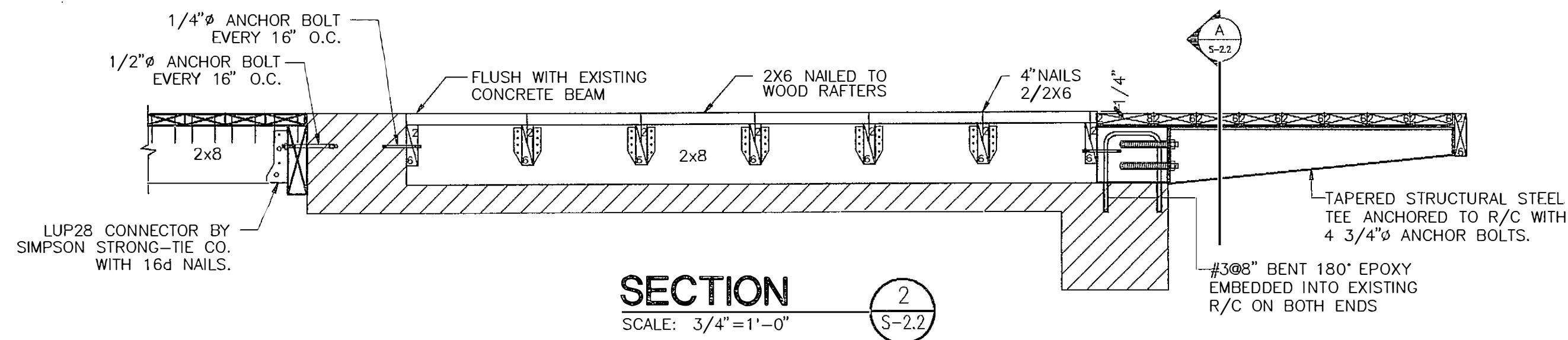
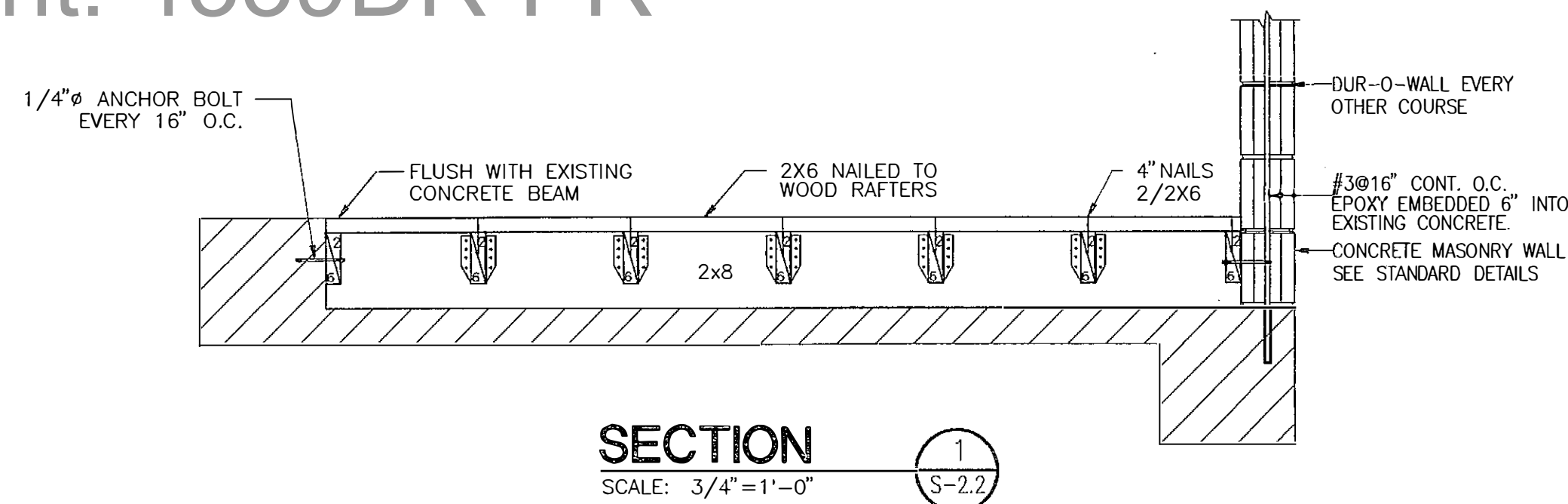
BUILDING #2 ROOF PLANS

S
2.1

G:\05-PR01\050504\05-050504\05-050504-2 Mon Dec 18 10:32:35 1995 PLOTTED ON C1064 S DESIGN JET 600

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	135	181



CARLOS I. CABRÉ & ASSOCIATES
ENGINEERING CONSULTANTS
1761 JESÚS T. PIÑERO AVENUE
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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

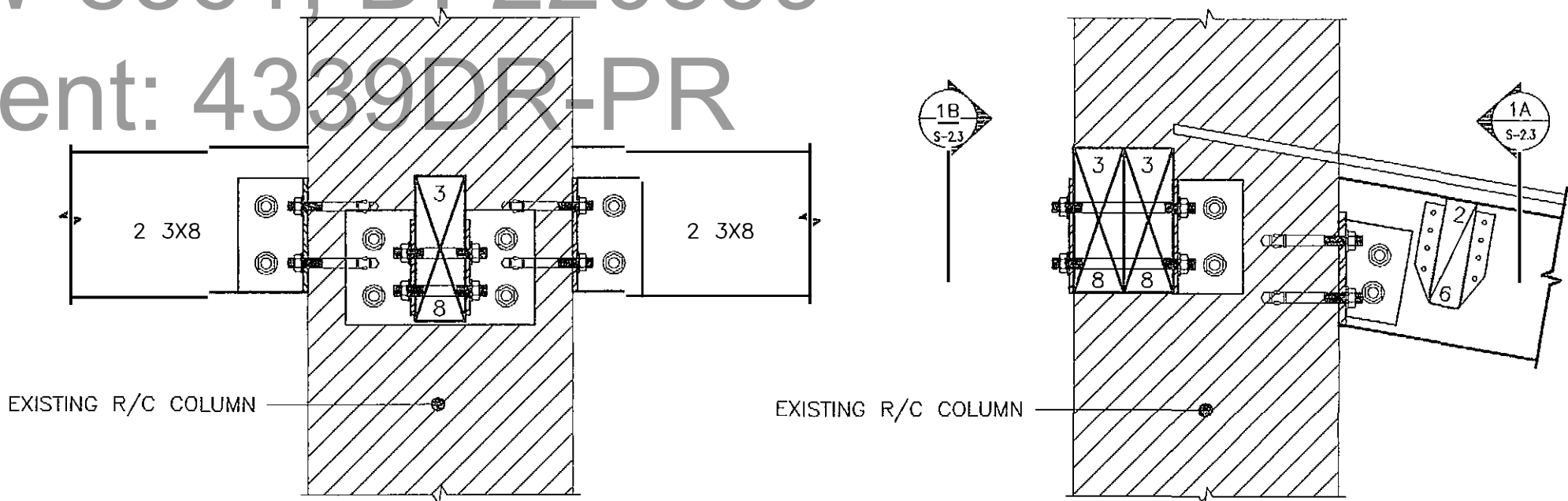
SCALE:
AS SHOWN

BUILDING #2
SECTION AND DETAILS

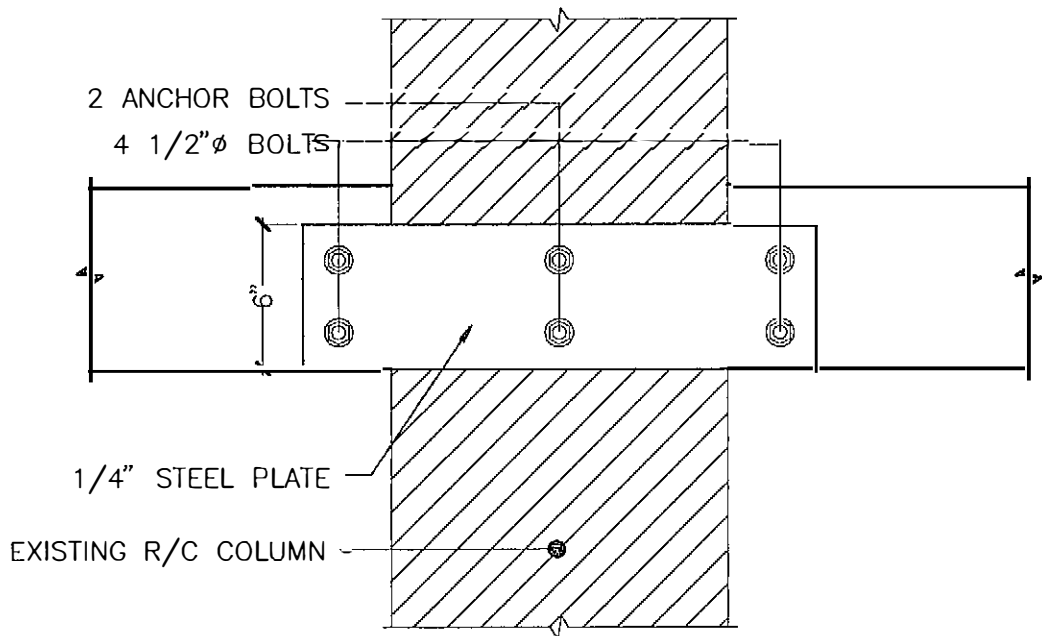
S
2.2

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

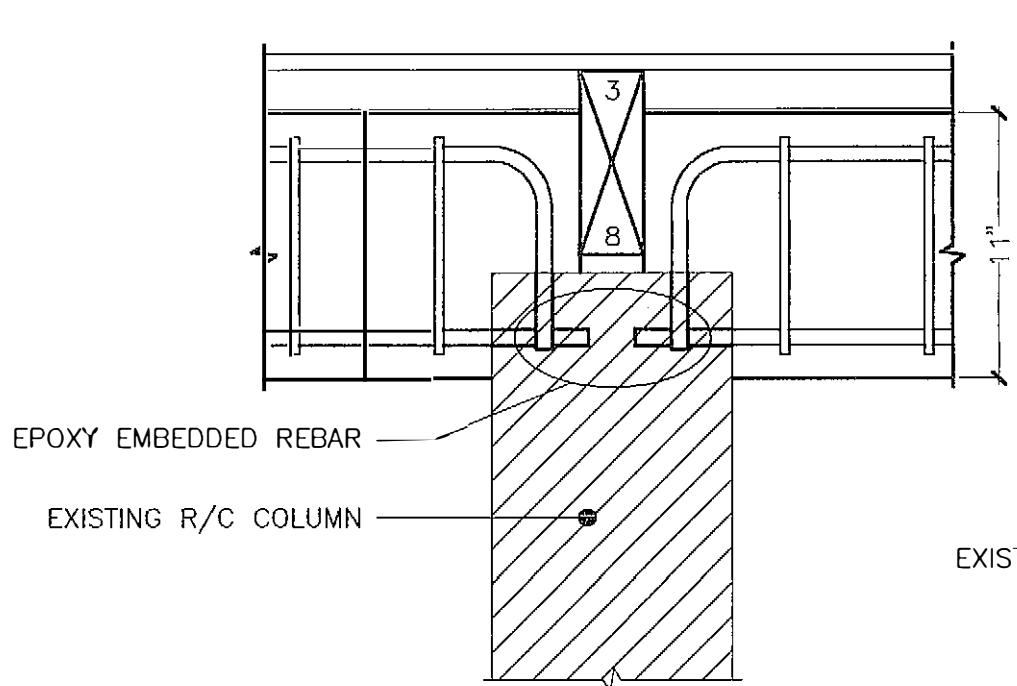
FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	136	181



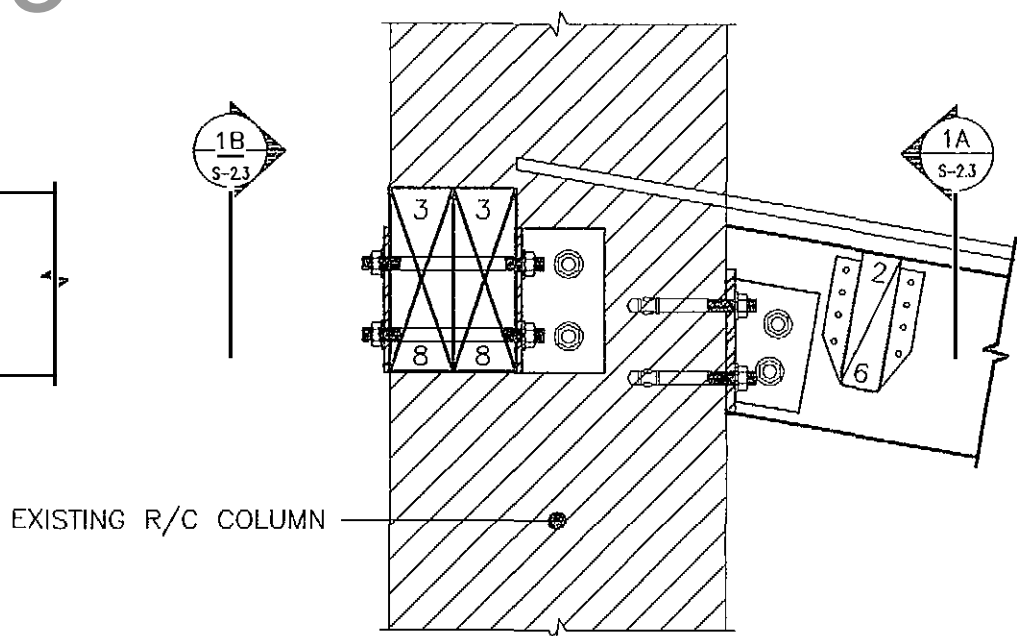
SECTION 1A
SCALE: 1-1/2"=1'-0"



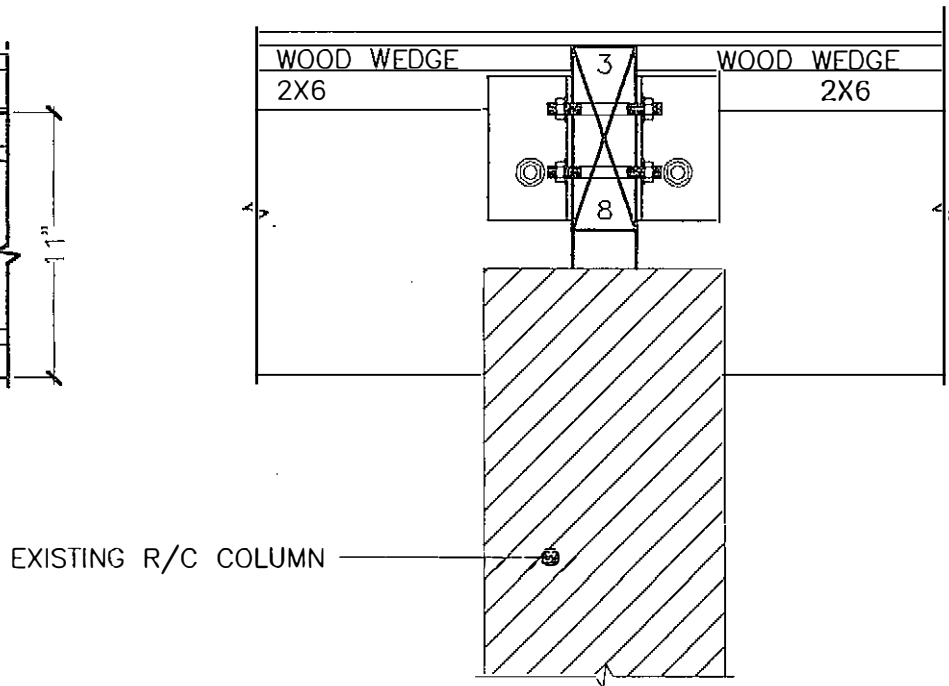
SECTION 1B
SCALE: 1-1/2"=1'-0"



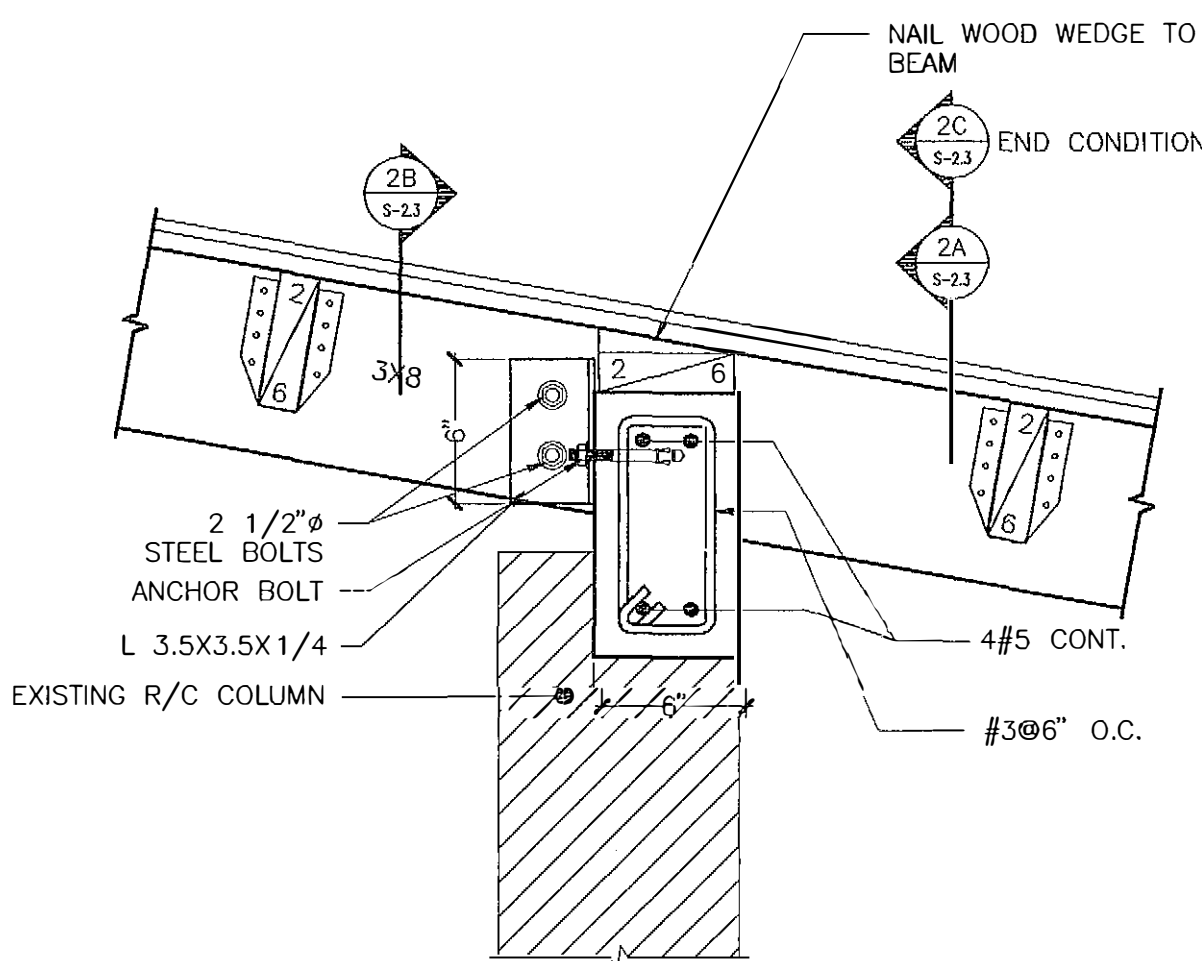
SECTION 2A
SCALE: 1-1/2"=1'-0"



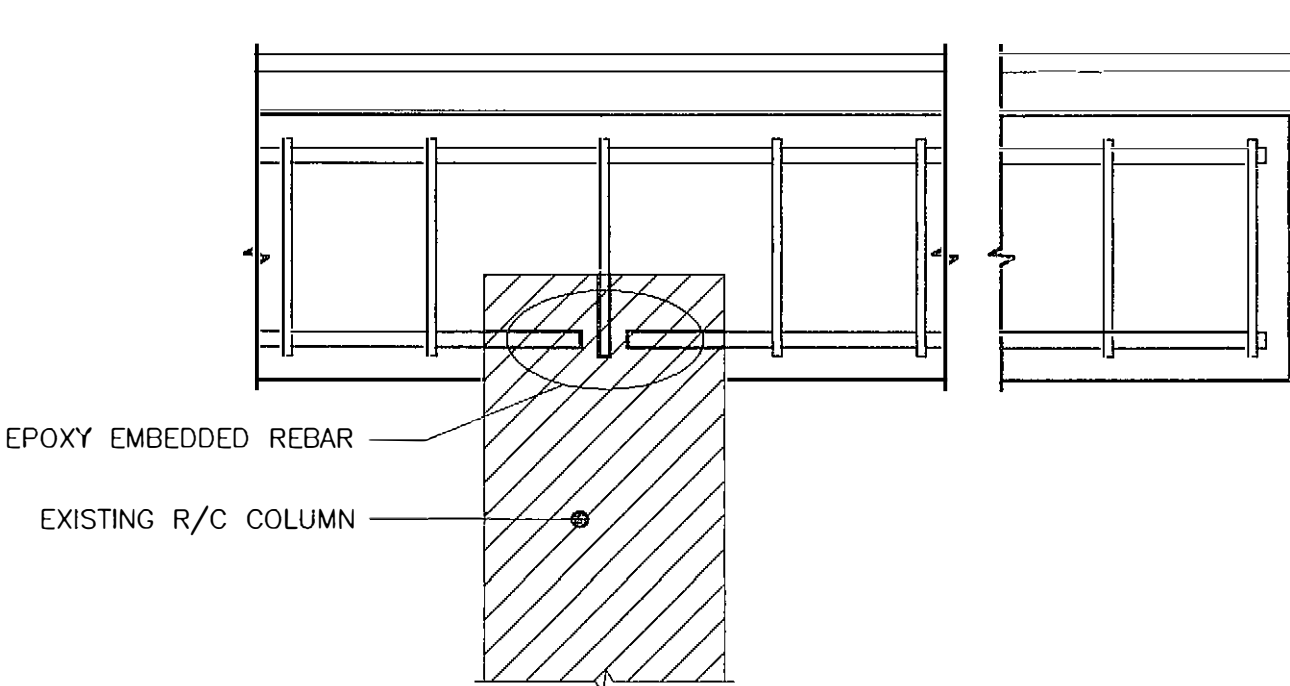
SECTION 1
SCALE: 1-1/2"=1'-0"



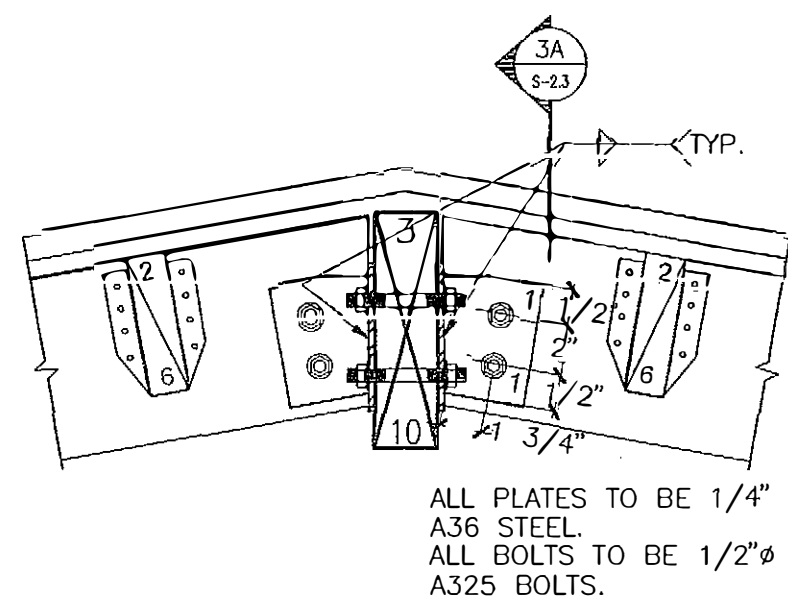
SECTION 2B
SCALE: 1-1/2"=1'-0"



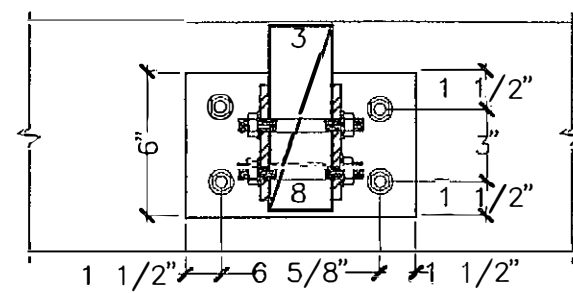
SECTION 2
SCALE: 1-1/2"=1'-0"



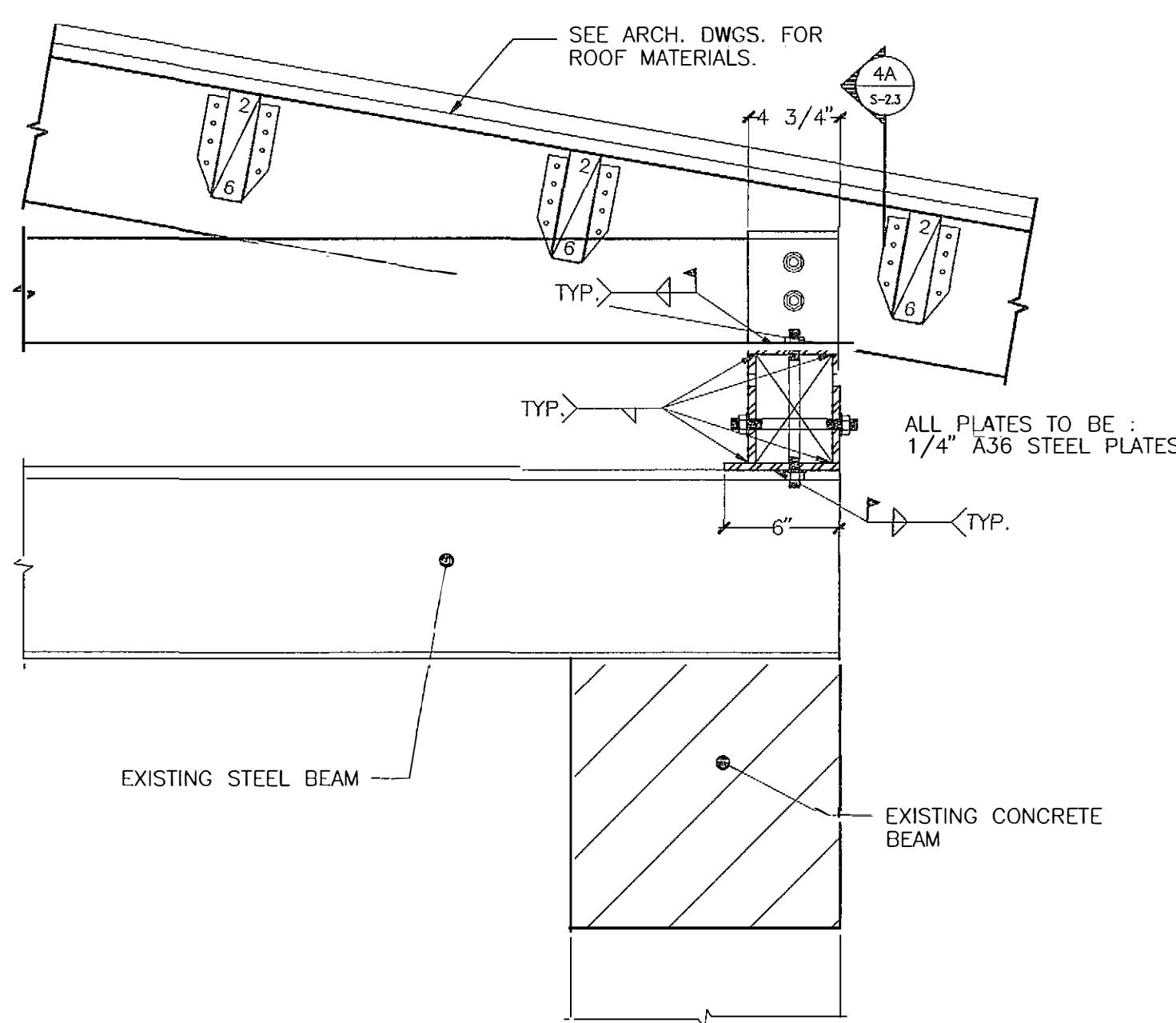
SECTION 2C
SCALE: 1-1/2"=1'-0"



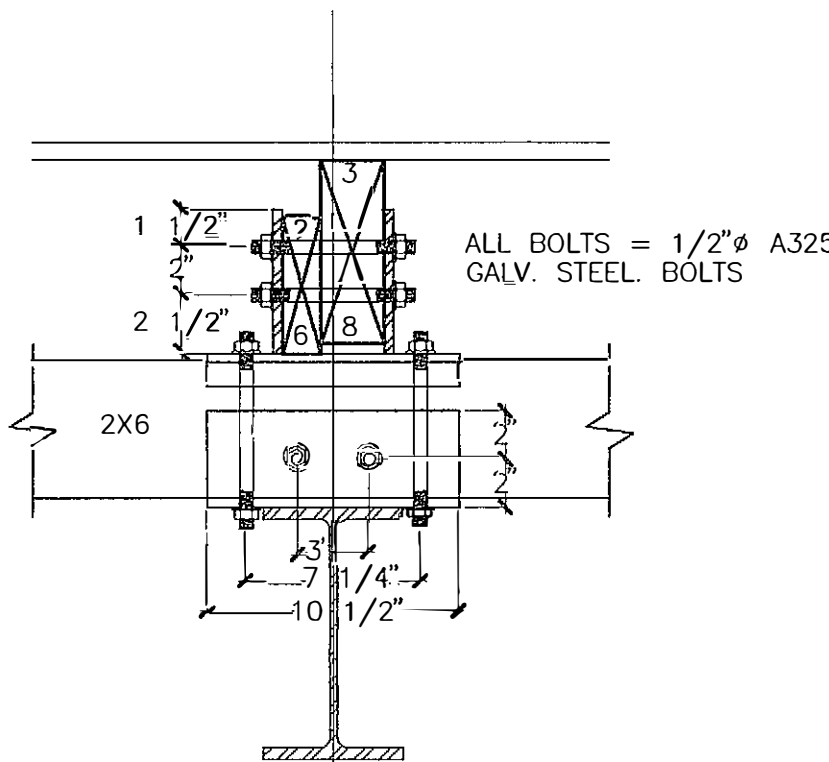
SECTION 3
SCALE: 1-1/2"=1'-0"



SECTION 3A
SCALE: 1-1/2"=1'-0"



SECTION 4
SCALE: 1-1/2"=1'-0"



SECTION 4A
SCALE: 1-1/2"=1'-0"

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JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE REVISIONS

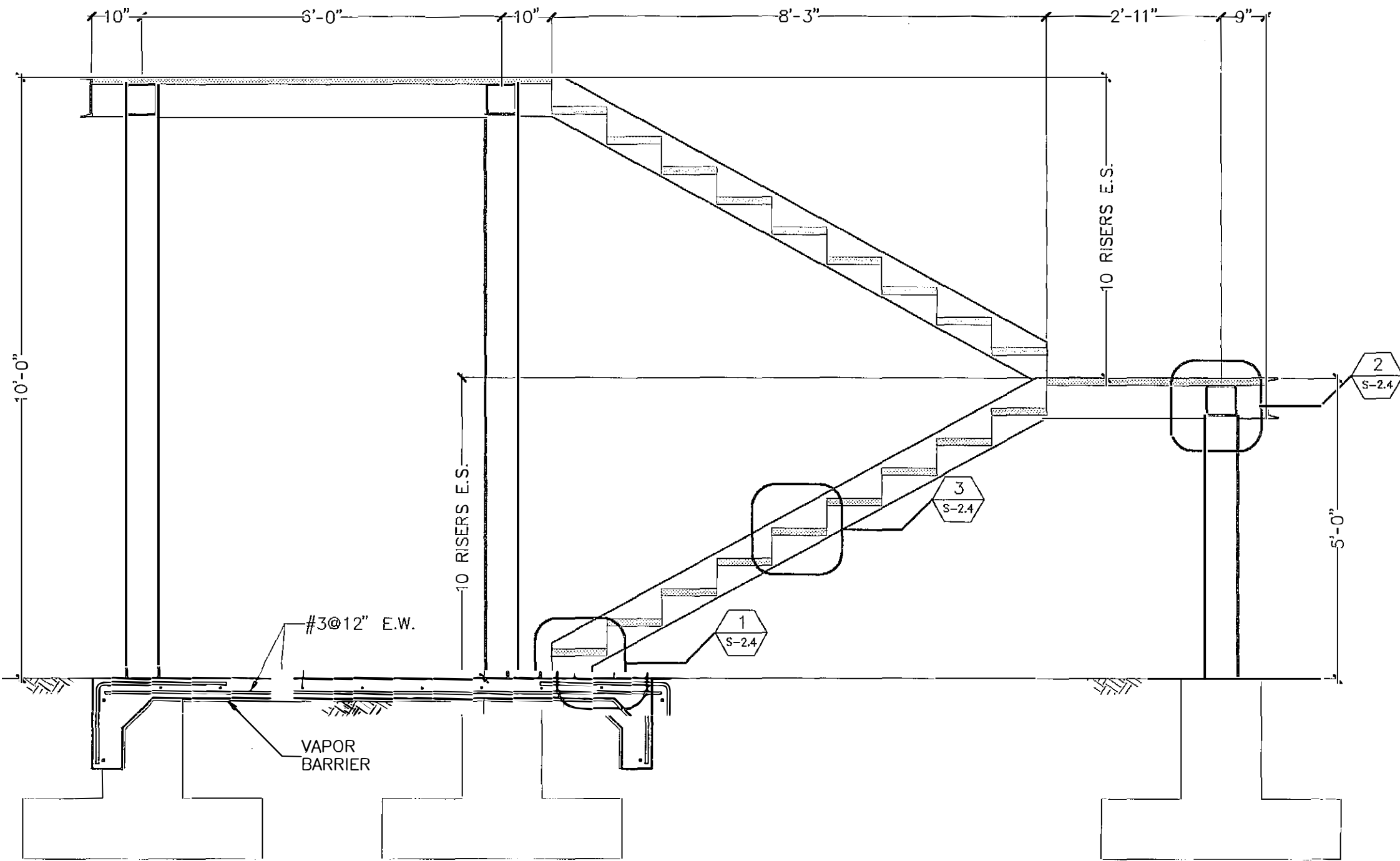
SCALE:
AS SHOWN

BUILDING #2
SECTIONS AND DETAILS

S
2.3

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

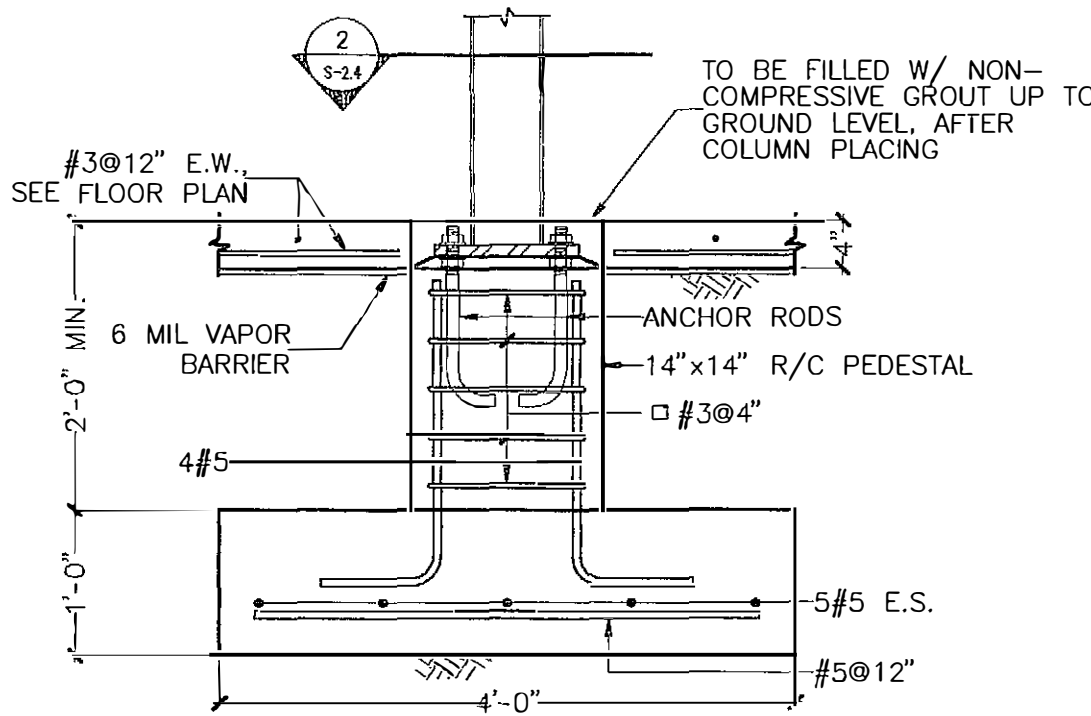
FED AID PROJECT NO.	H'WAY NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
			P.R. 10	UTUADO ARECIBO	P.R.	1996	137	181



SECTION

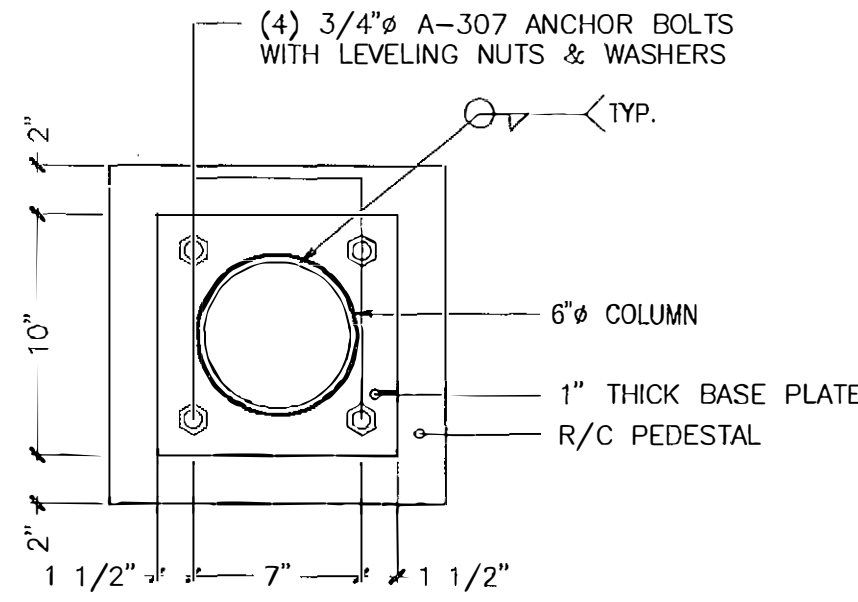
SCALE: $\frac{1}{2}" = 1' - 0"$

1
S-2.4

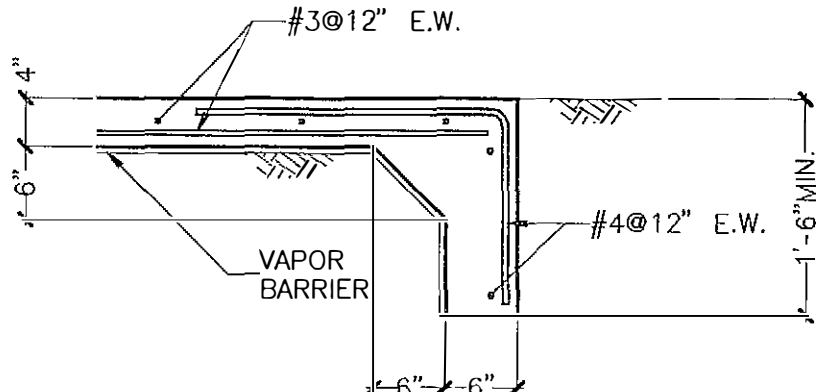


F-1 FOOTING DETAIL

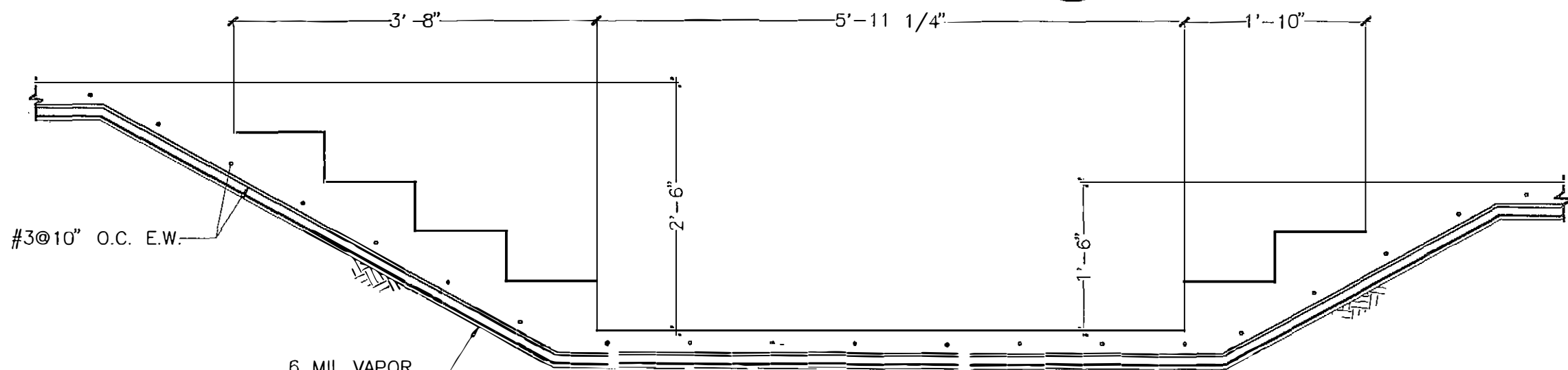
SCALE: $\frac{3}{4}" = 1' - 0"$



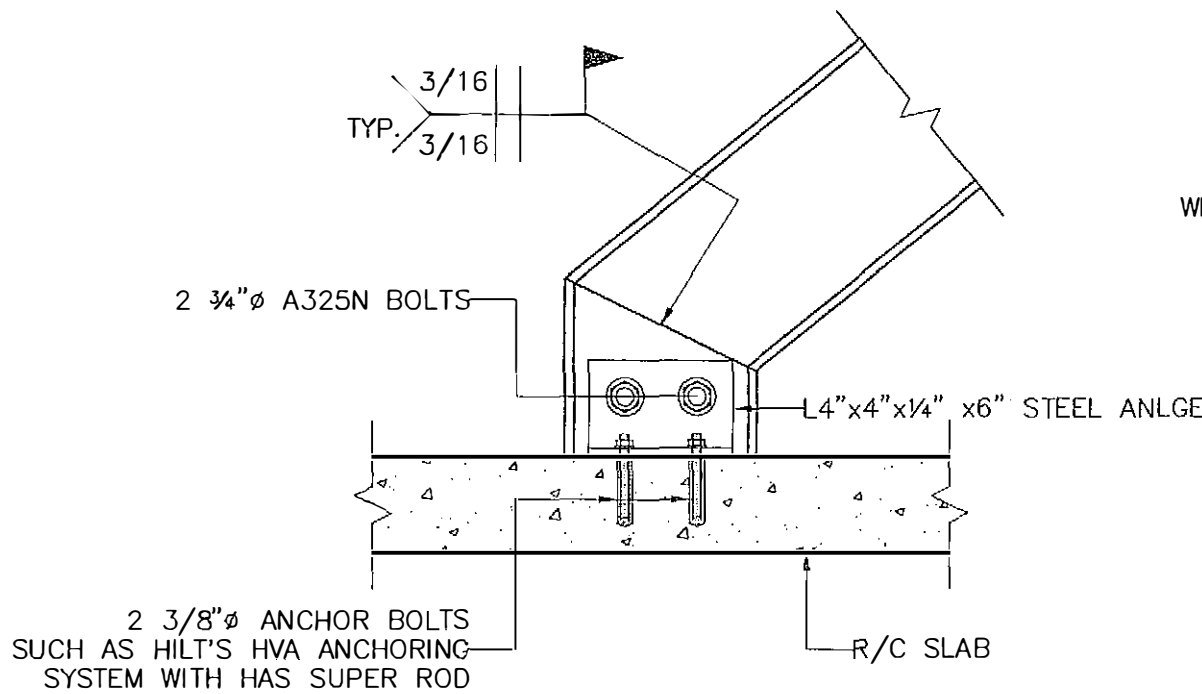
SECTION 2
SCALE: 1 1/2"=1'-0" S-2.4



SECTION 3
SCALE: $\frac{3}{4}" = 1' - 0"$ S-2.4



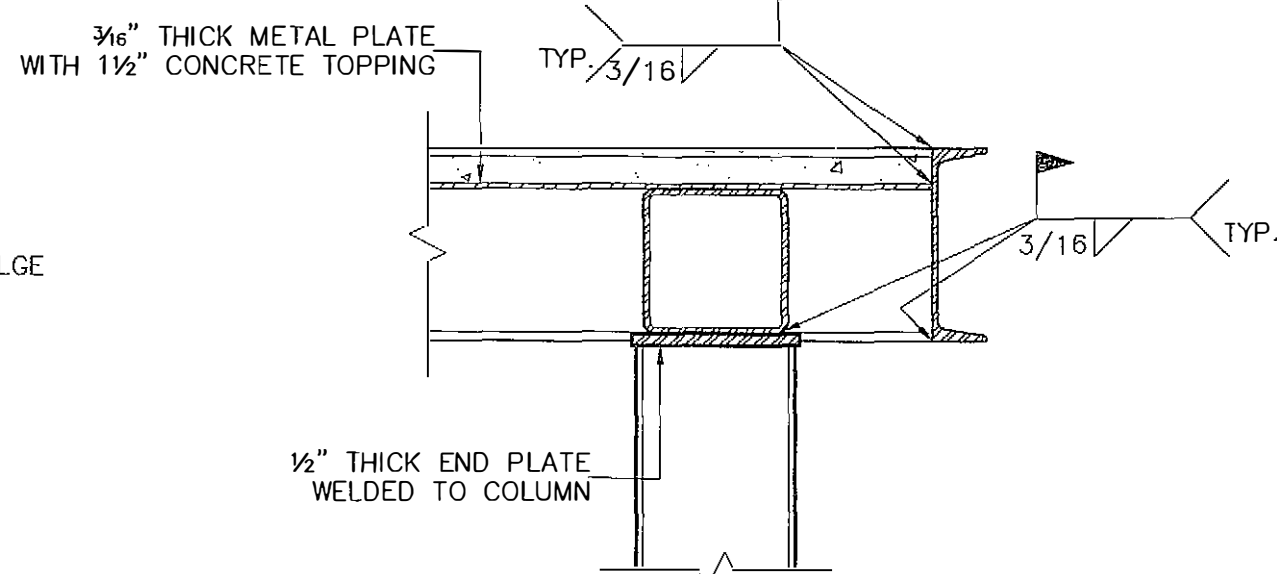
SECTION 4
SCALE: $\frac{3}{4}"=1'-0"$ S-2.4



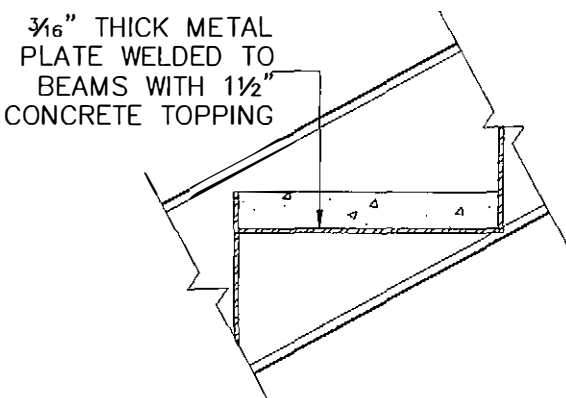
DETAIL

SCALE: $1\frac{1}{2}''=1'-0''$

1
S-2.4



DETAIL 2
SCALE: 1½"=1'-0" S-2.4



DETAIL

SCALE: $1\frac{1}{2}" = 1'-0"$

3

S-2.4

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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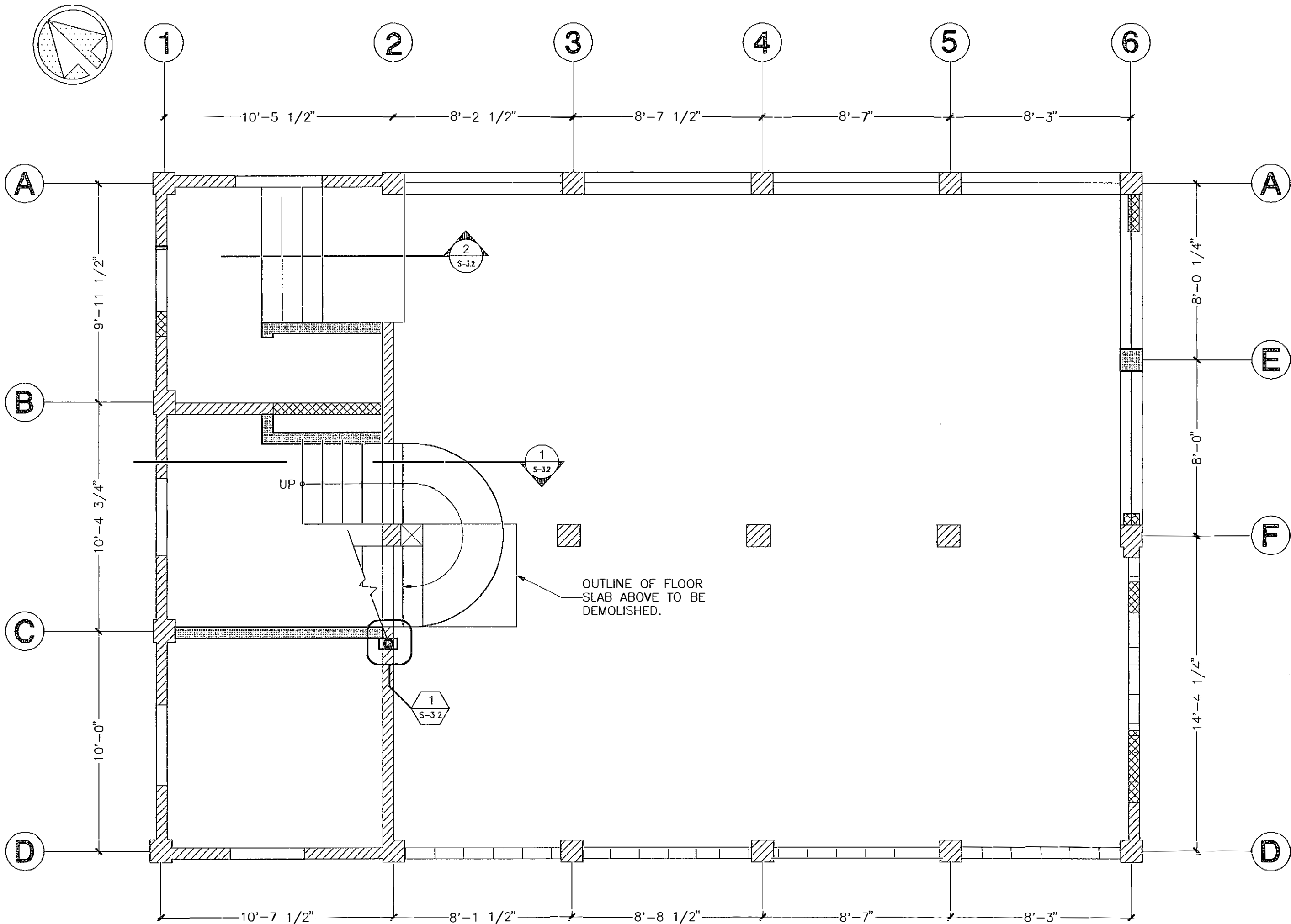
SCALE:
AS SHOWN

BUILDING #2 STAIRS SECTIONS AND DETAILS

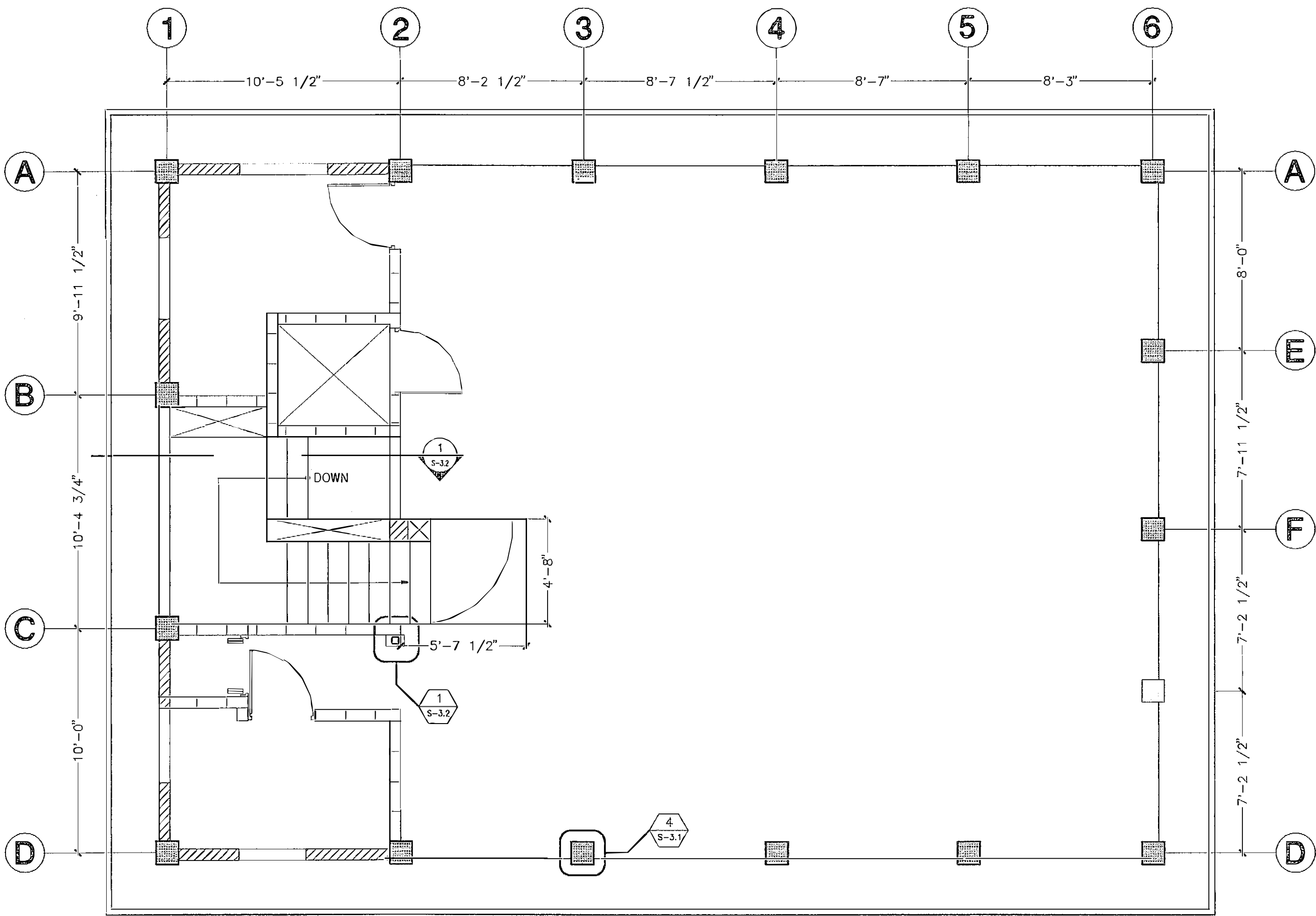
S
2.4

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Event: 4339DR-PR


FED. AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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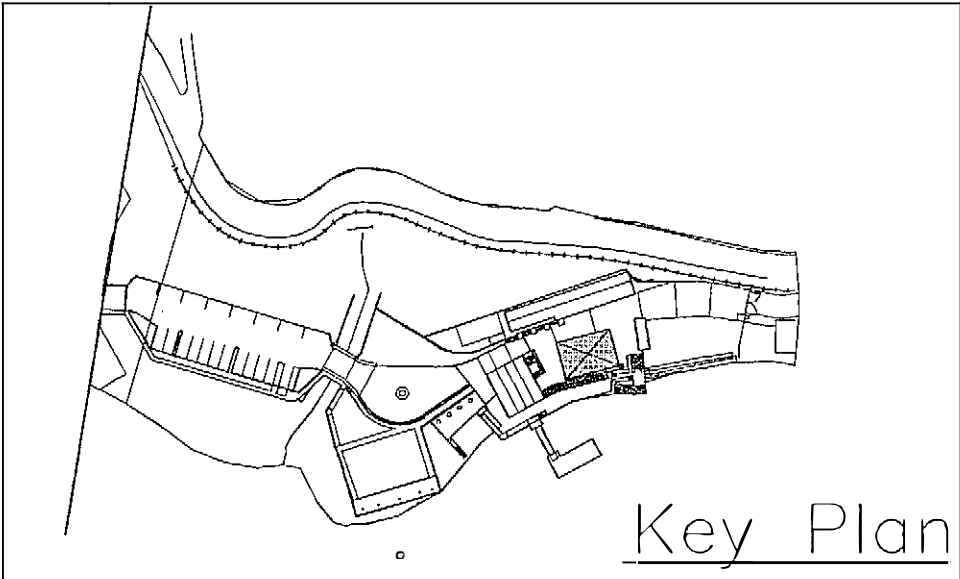


FOUNDATION PLAN
SCALE: 1/4"=1'-0"



FLOOR PLAN
SCALE: 1/4"=1'-0"

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Key Plan

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PUERTO RICO

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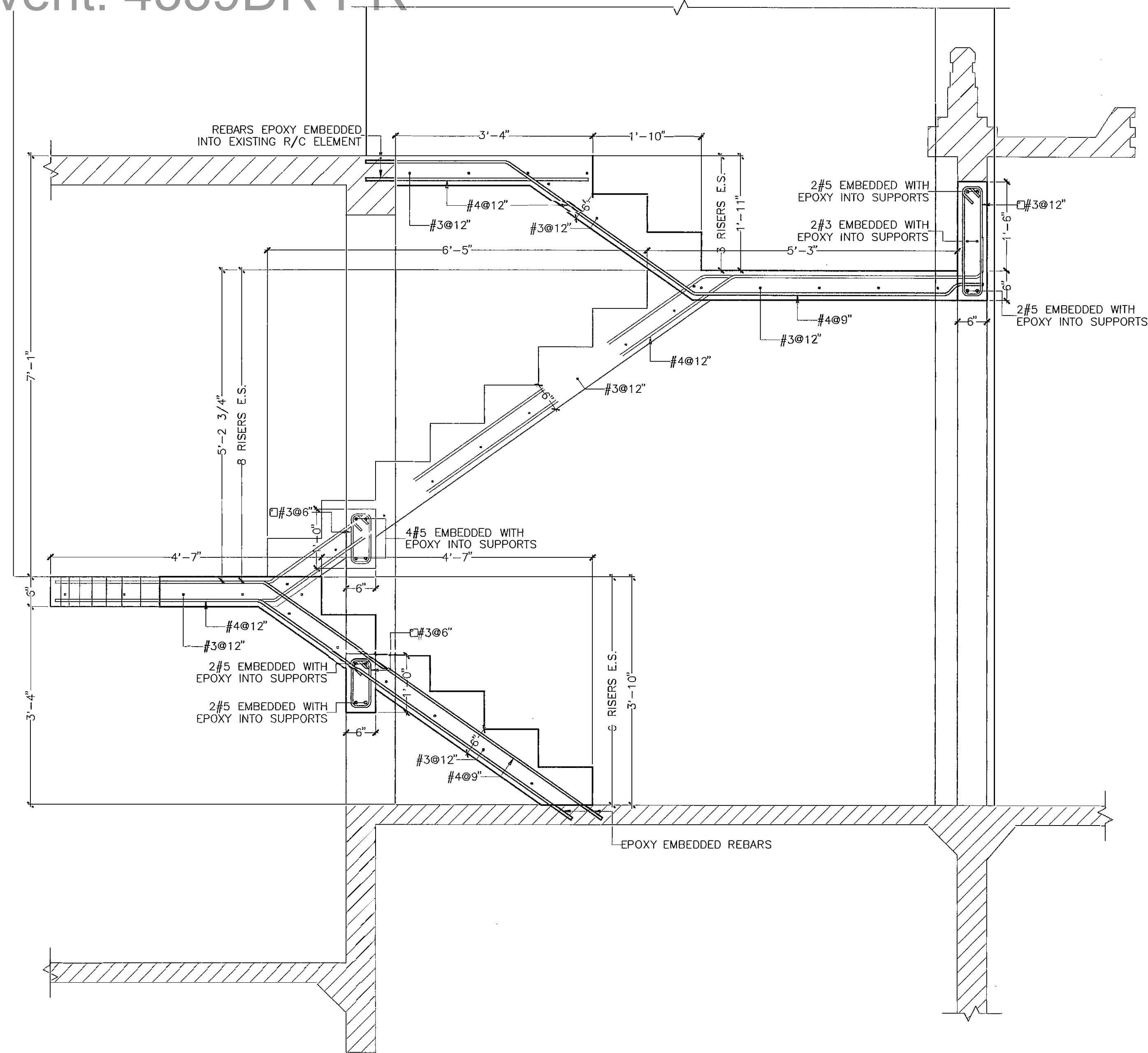
SCALE:
1/4"=1'-0"

BUILDING #3
FOUNDATION AND FLOOR PLAN

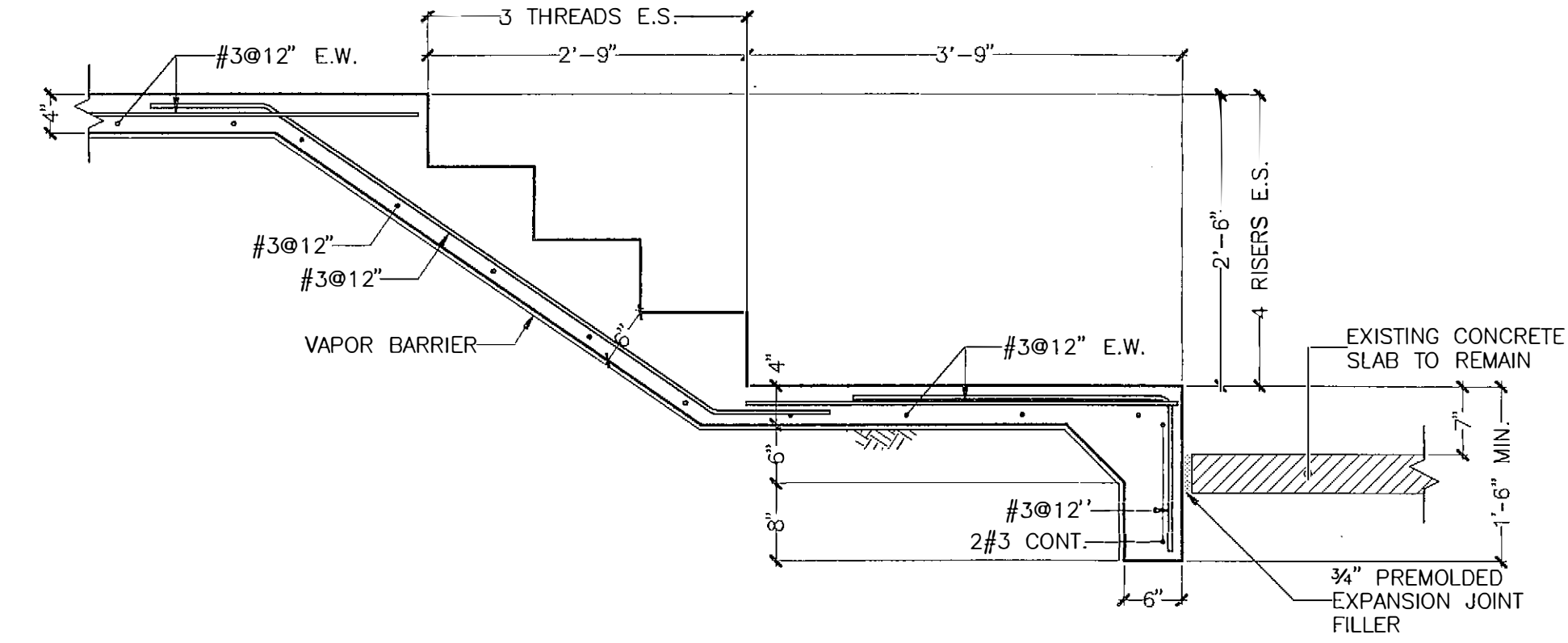
S
3.0

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

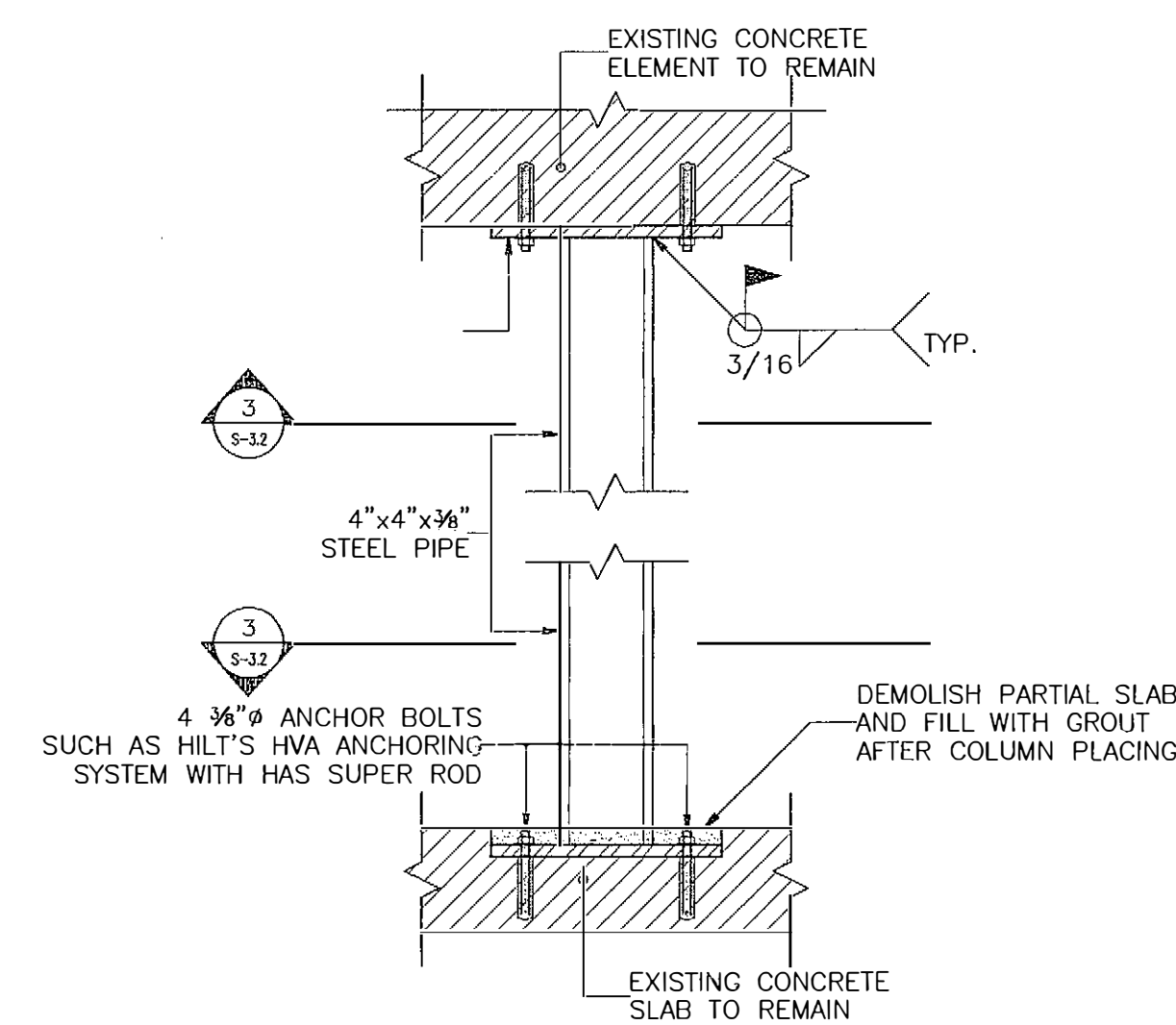
FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	140	181



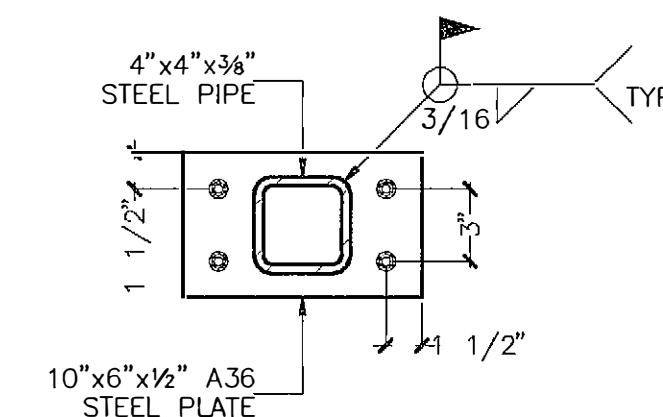
SECTION 1
SCALE: 3/4\"=1'-0\"



SECTION 2
SCALE: 3/4\"=1'-0\"



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



SECTION 3
SCALE: 1 1/2\"=1'-0\"

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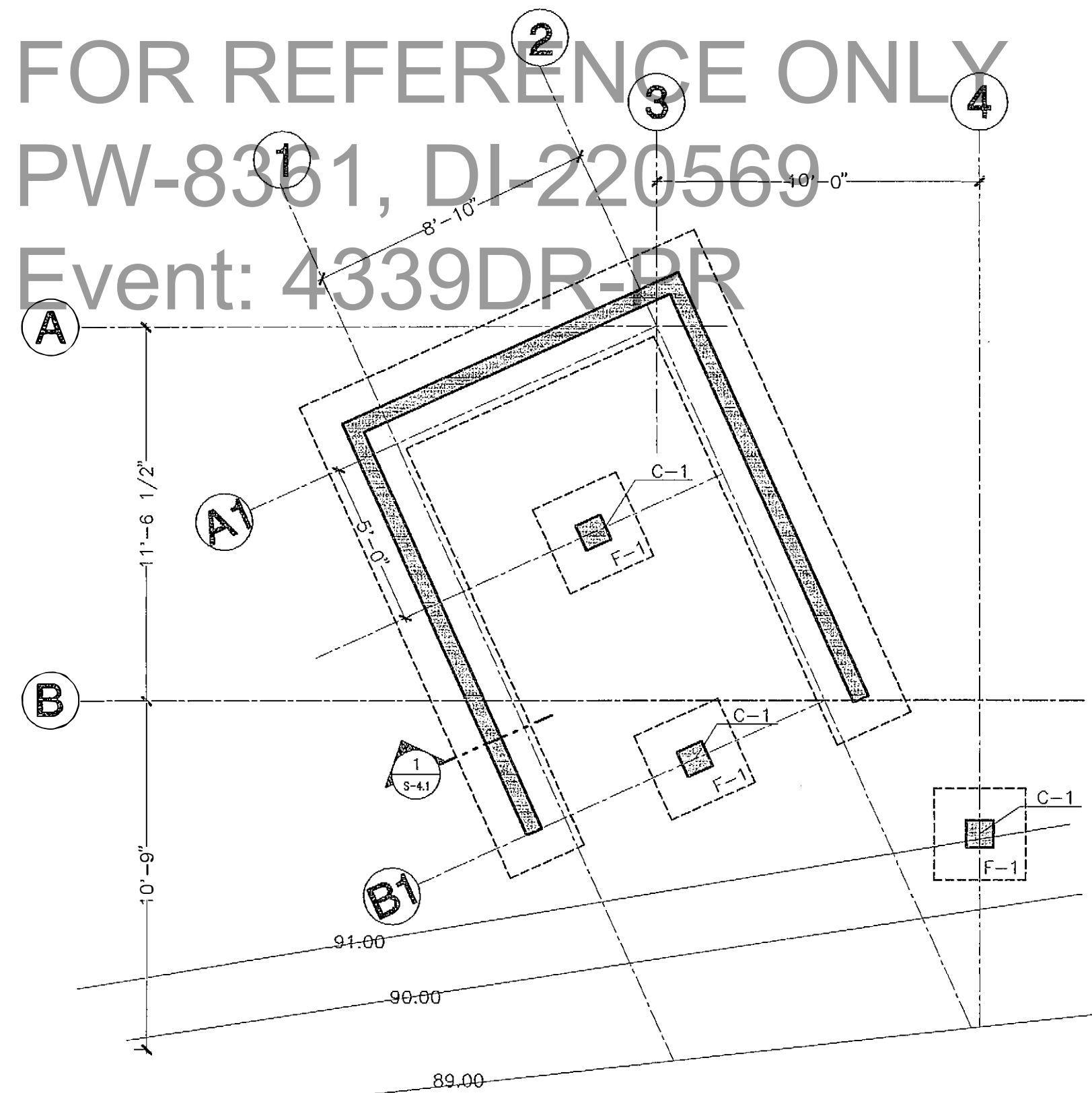
DATE	REVISIONS

SCALE:
AS SHOWN

BUILDING #3
SECTIONS AND DETAILS

S
3.2

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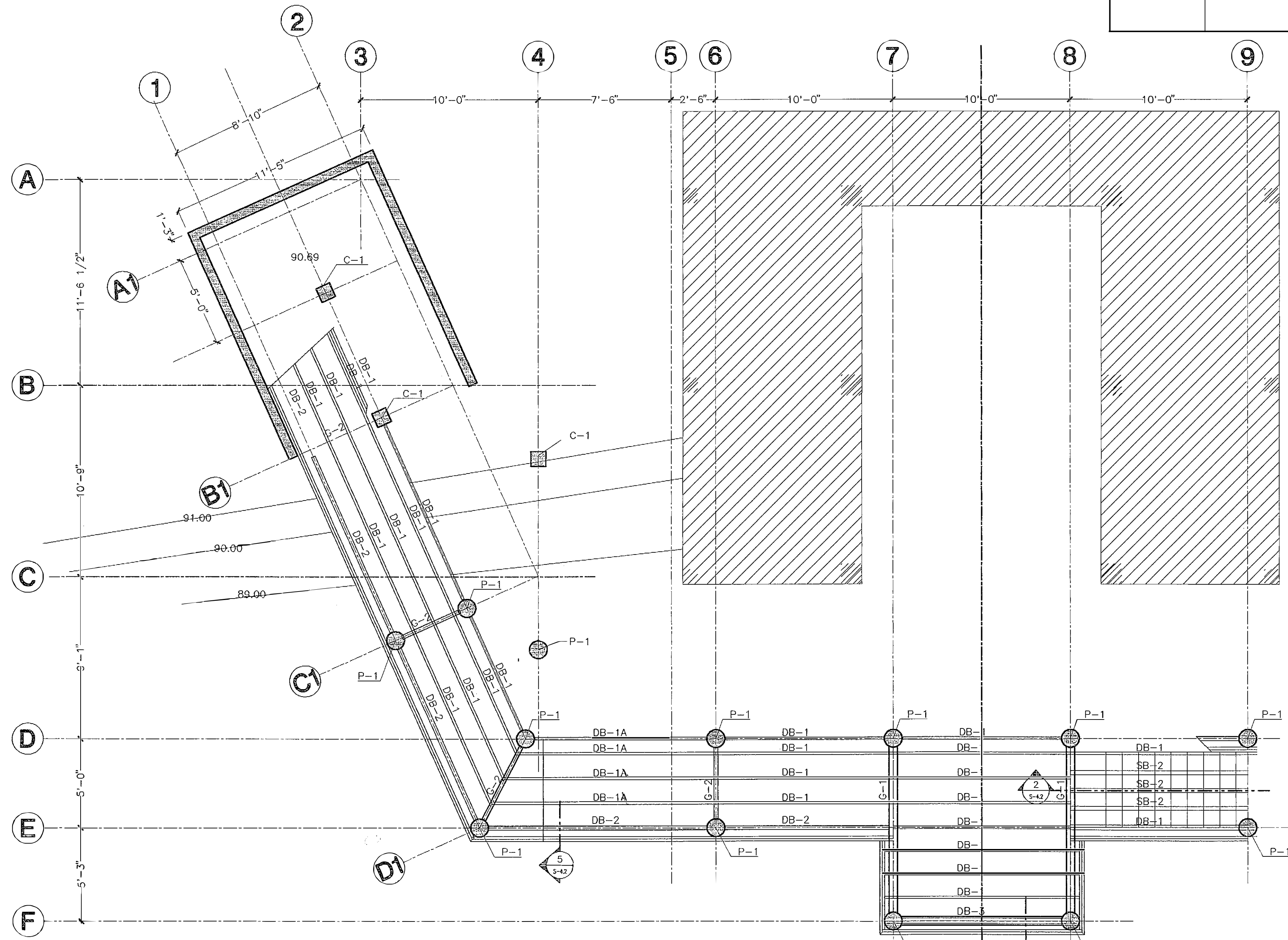


FOUNDATION PLAN
SCALE: 1/4"=1'-0"

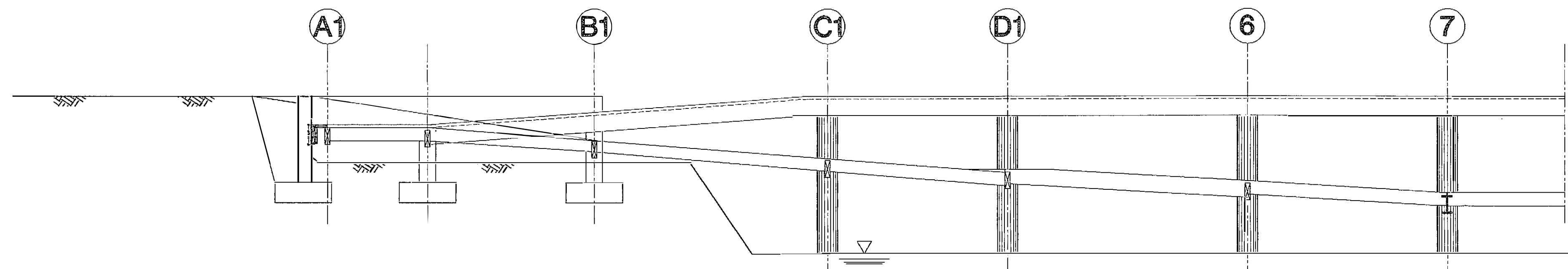
BEAM SCHEDULE	
MARKED	SECTION
DB-1	2X8
DB-1A	2X10
DB-2	3X8
DB-3	W10X22
SB-1	2X12
SB-2	3X12

GIRDER SCHEDULE	
MARKED	SECTION
G-1	W10X22
G-2	3X8

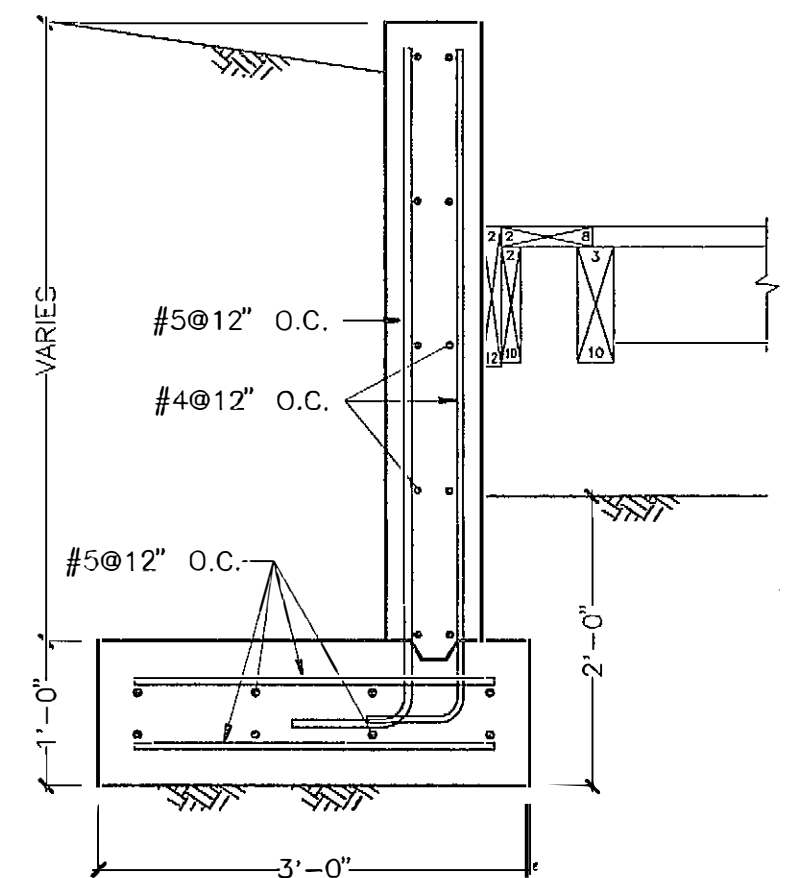
COLUMN SCHEDULE	
MARKED	SECTION
P-1	12" Ø
C-1	10"X10"



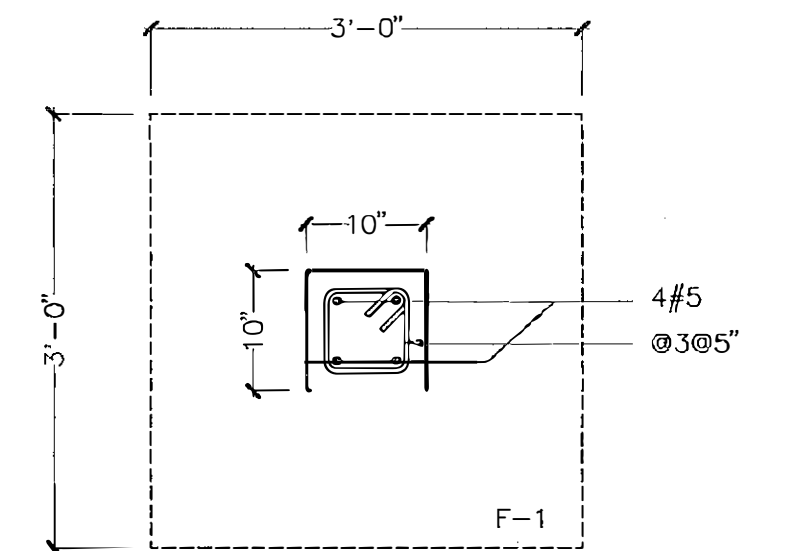
PARTIAL DOCK FRAMING PLAN
SCALE: 1/4"=1'-0"



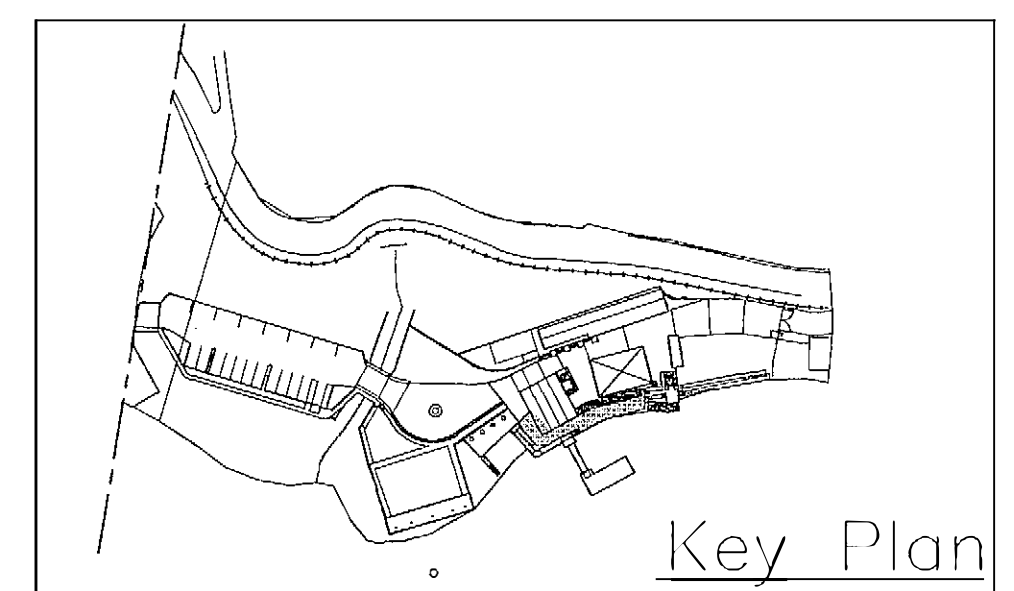
PARTIAL DOCK RAMP SECTION
SCALE: 1/4"=1'-0"



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



FOUNDATION MKD. F-1
SCALE: 3/4"=1'-0"



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PUERTO RICO

DATE REVISIONS

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

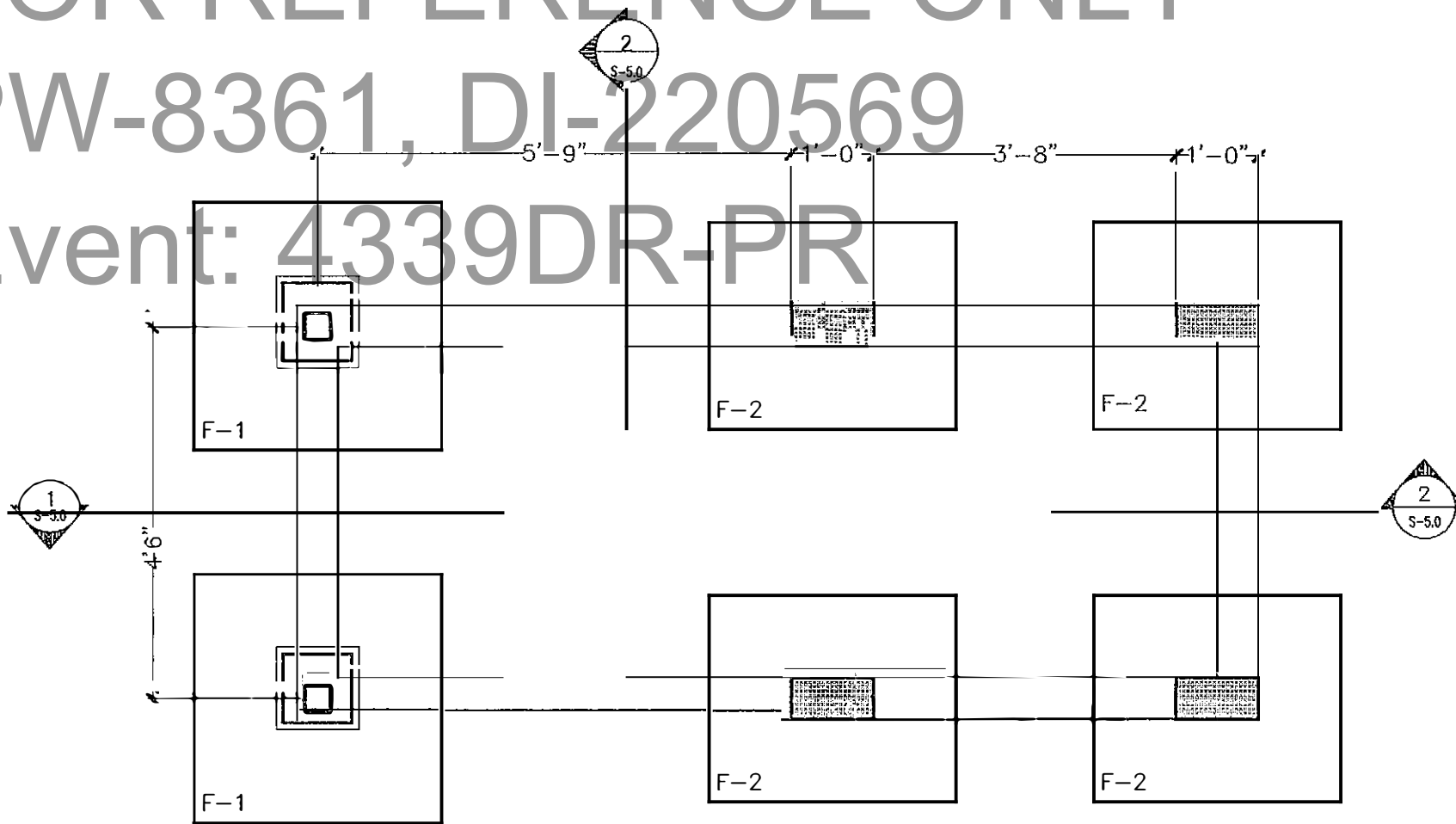
PARTIAL DOCK FRAMING PLAN

S
4.1

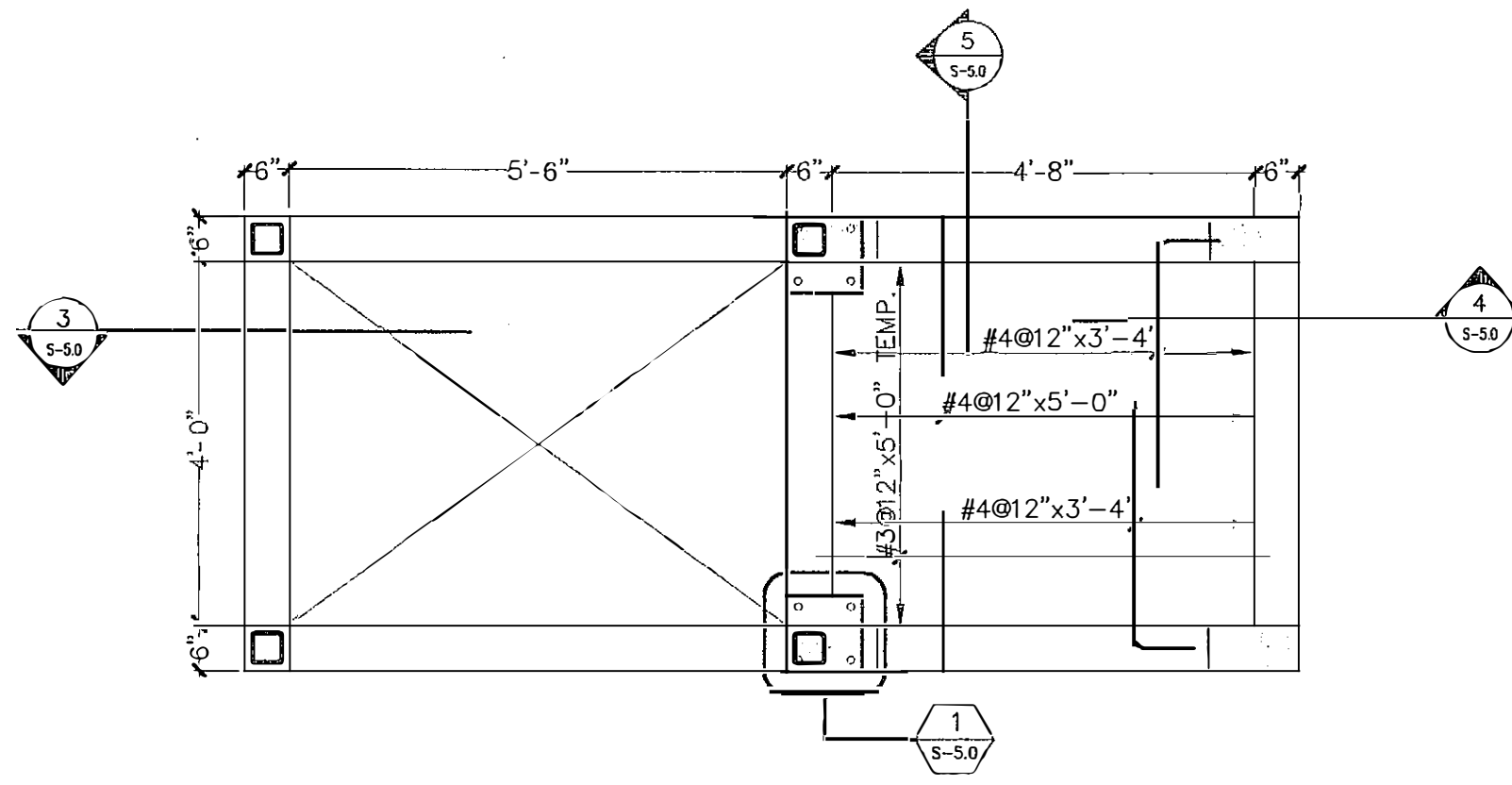
6. 185-PRQUINBOCAS\5-DWG\GUARD Wed Dec 13 09:47:27 1995 PLOTTED ON C1C6A S DISTER JET 600

FED. AID. H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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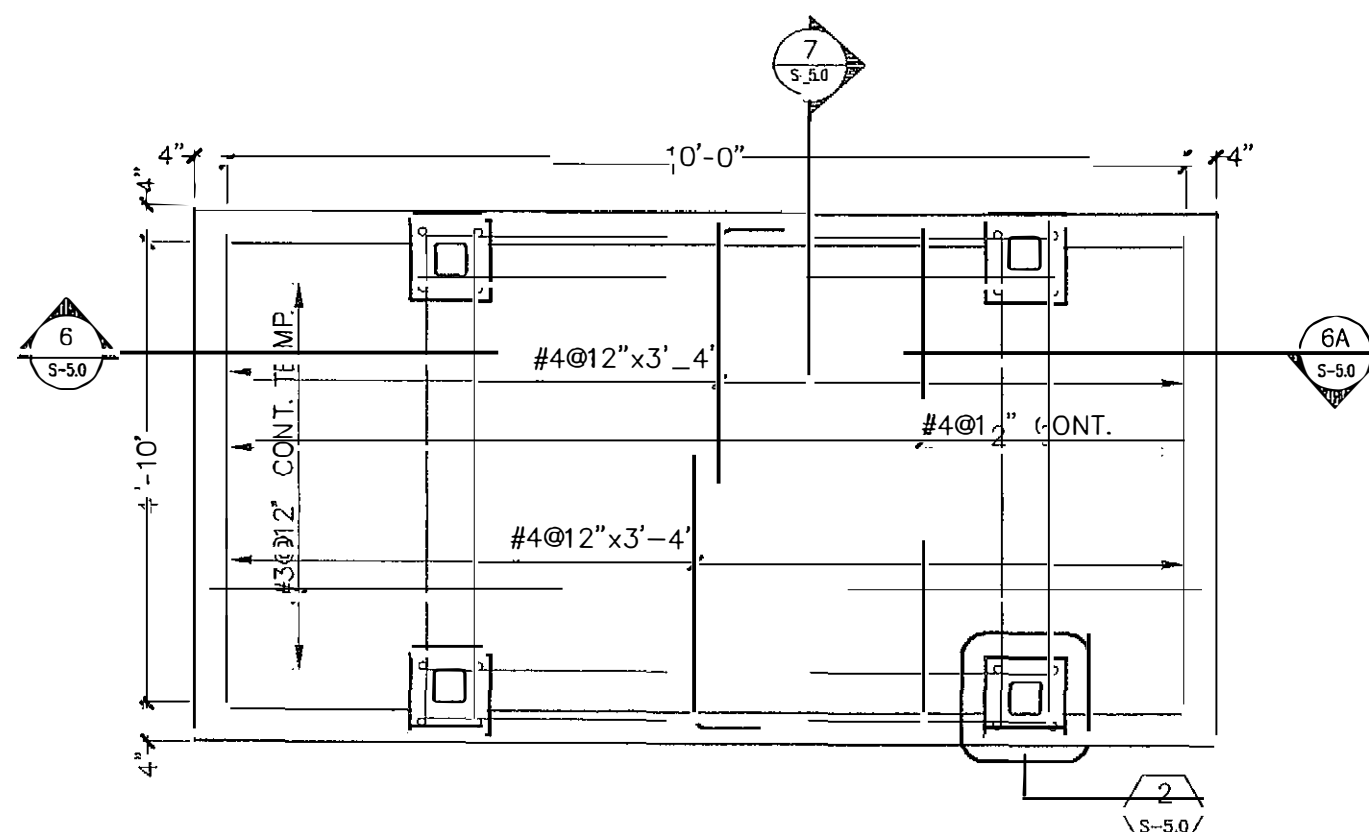
FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



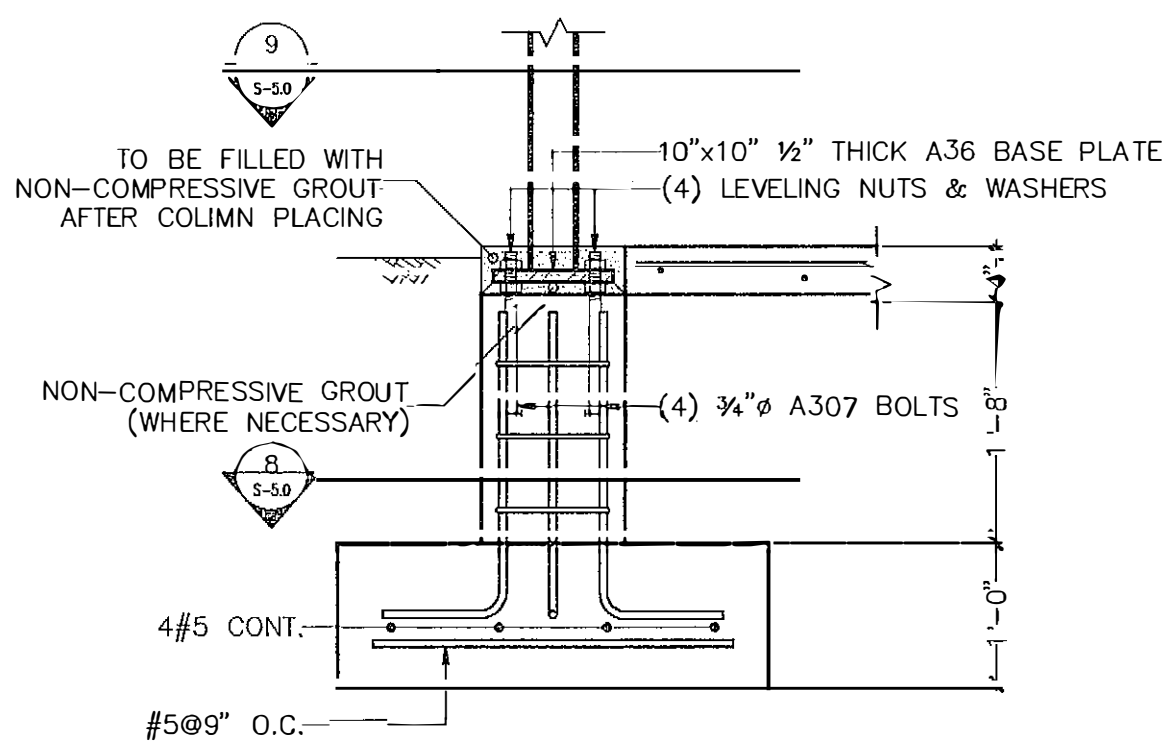
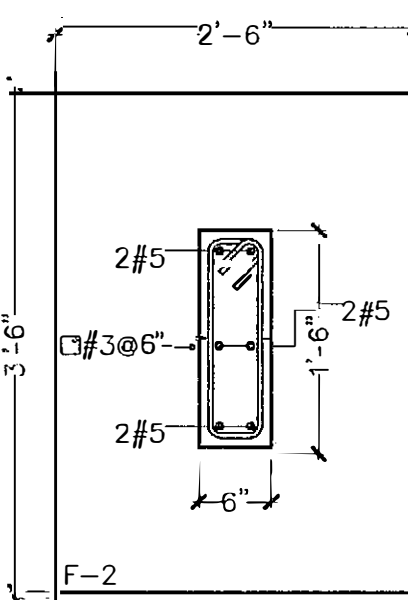
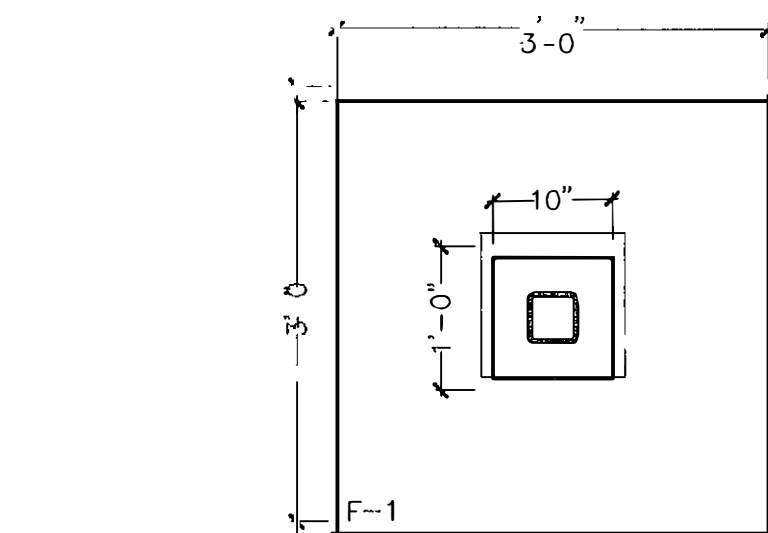
FOUNDATION PLAN
SCALE: 1/2"=1'-0"



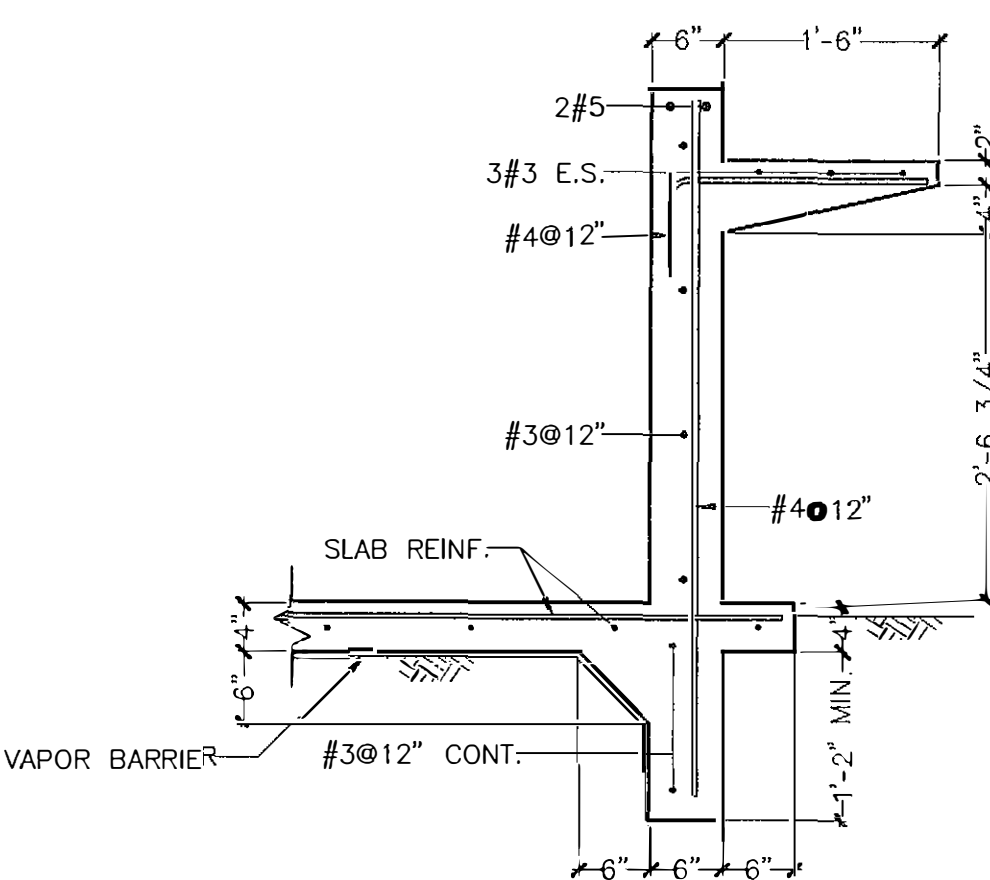
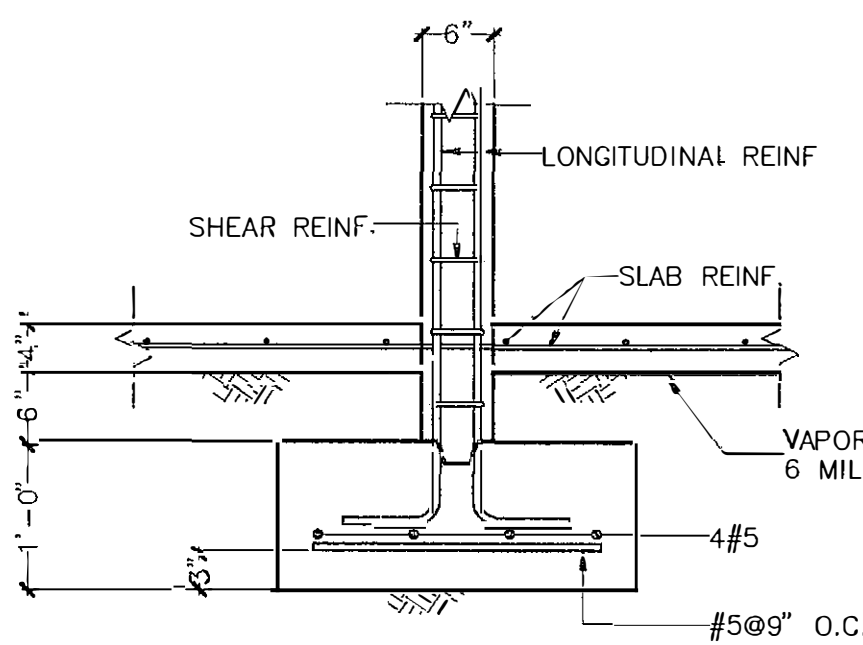
PARTIAL ROOF PLAN
SCALE: 1/2"=1'-0"



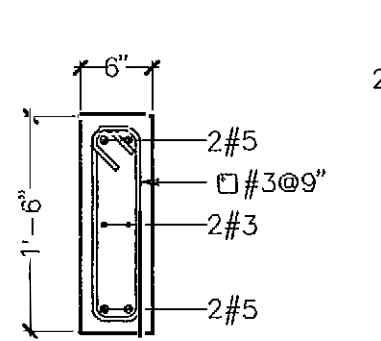
PARTIAL ROOF PLAN
SCALE: 1/2"=1'-0"



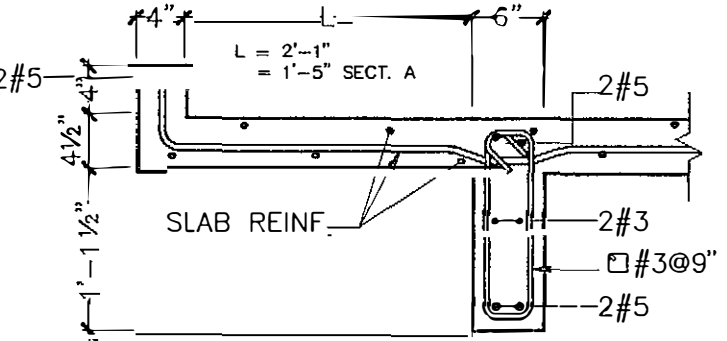
FOUNDATION AND COLUMN DETAILS F-1 & F-2
SCALE: 3/4"=1'-0"



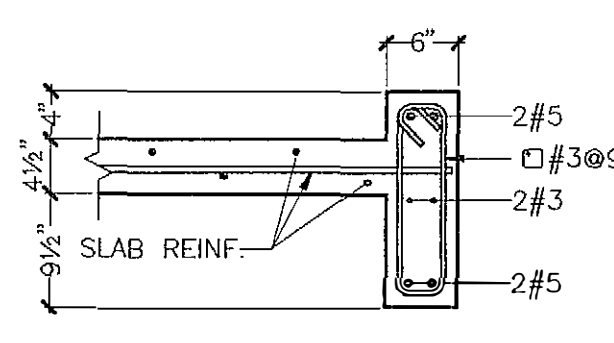
SECTION 1
SCALE: 3/4"=1'-0"



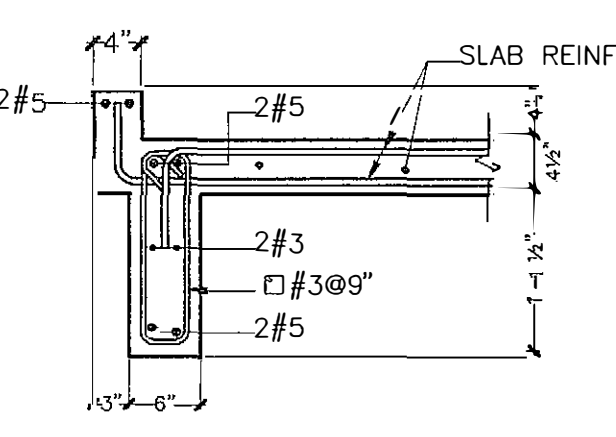
SECTION 3
SCALE: 3/4"=1'-0"



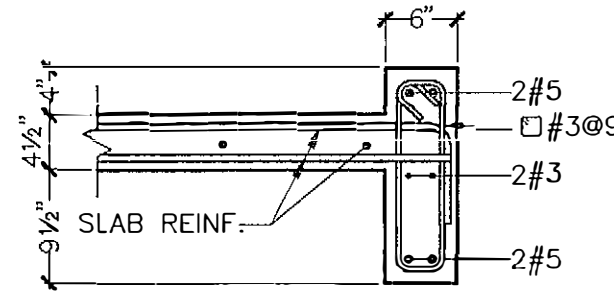
SECTION 6
SCALE: 3/4"=1'-0"



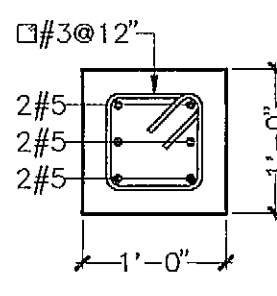
SECTION 4
SCALE: 3/4"=1'-0"



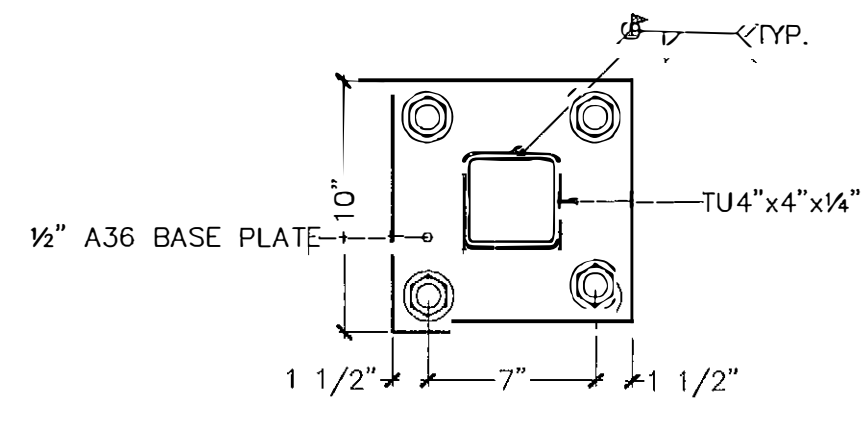
SECTION 7
SCALE: 3/4"=1'-0"



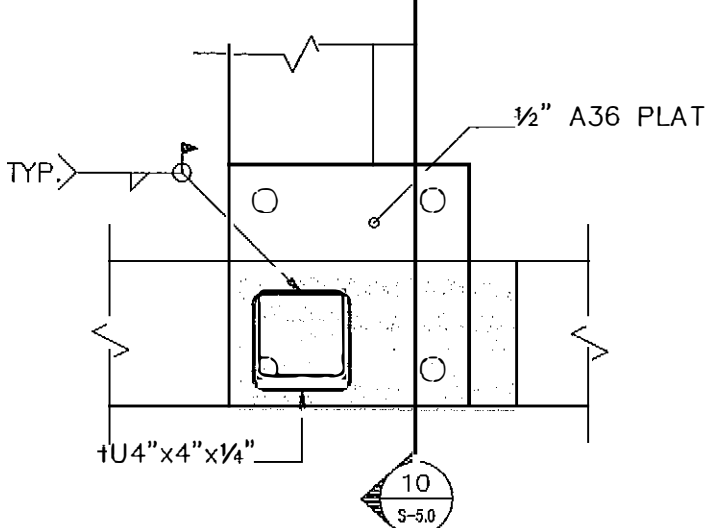
SECTION 5
SCALE: 3/4"=1'-0"



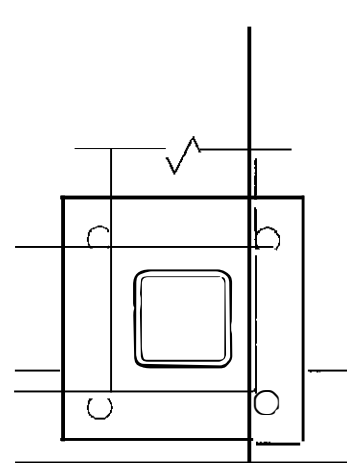
SECTION 8
SCALE: 3/4"=1'-0"



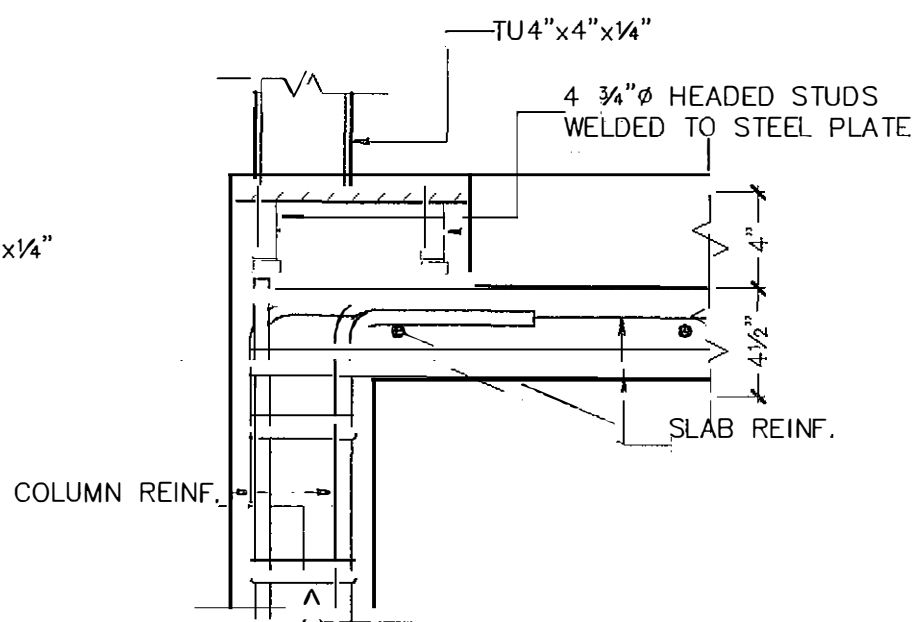
SECTION 9
SCALE: 1 1/2"=1'-0"



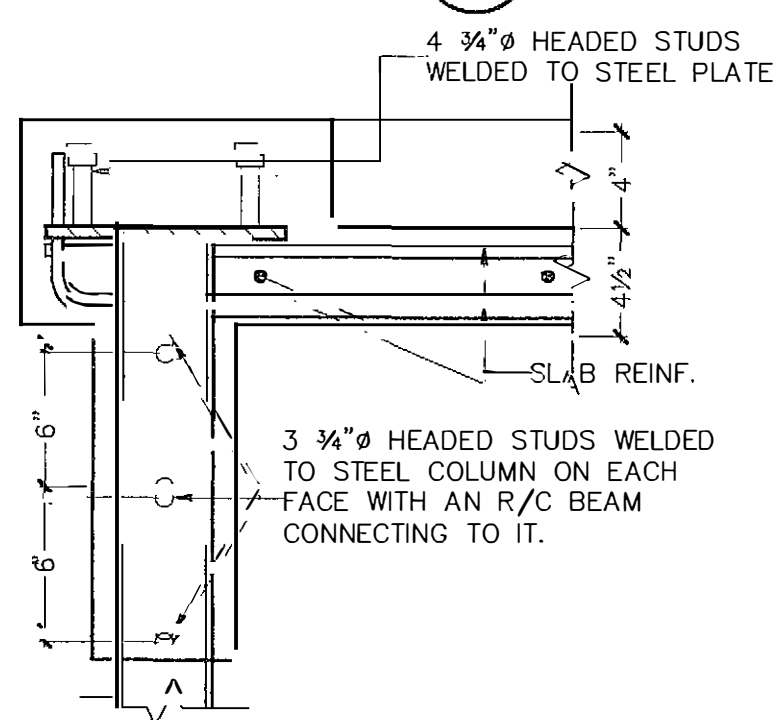
DETAIL 1
SCALE: 1 1/2"=1'-0"



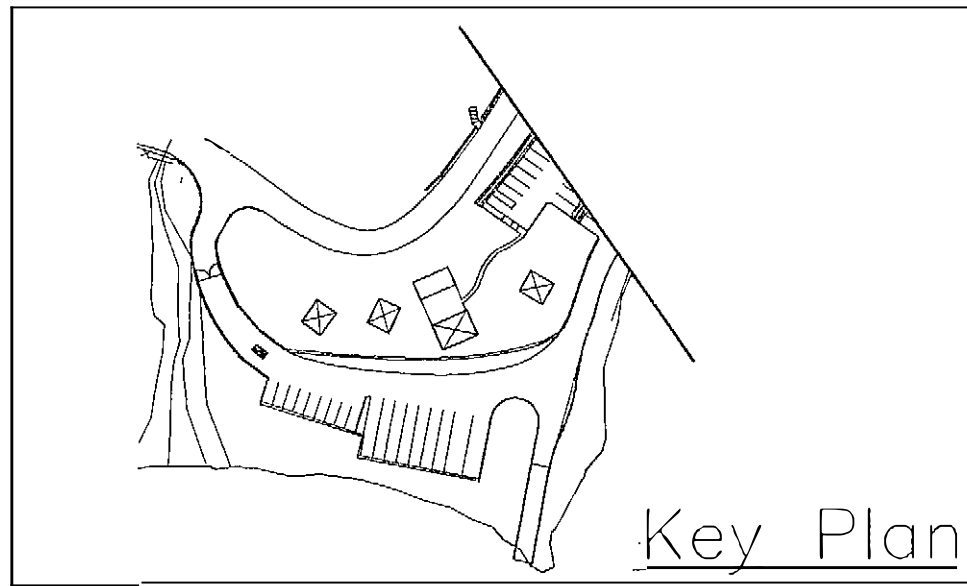
DETAIL 2
SCALE: 1 1/2"=1'-0"



SECTION 10
SCALE: 1 1/2"=1'-0"



SECTION 11
SCALE: 1 1/2"=1'-0"



Key Plan

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PUERTO RICO

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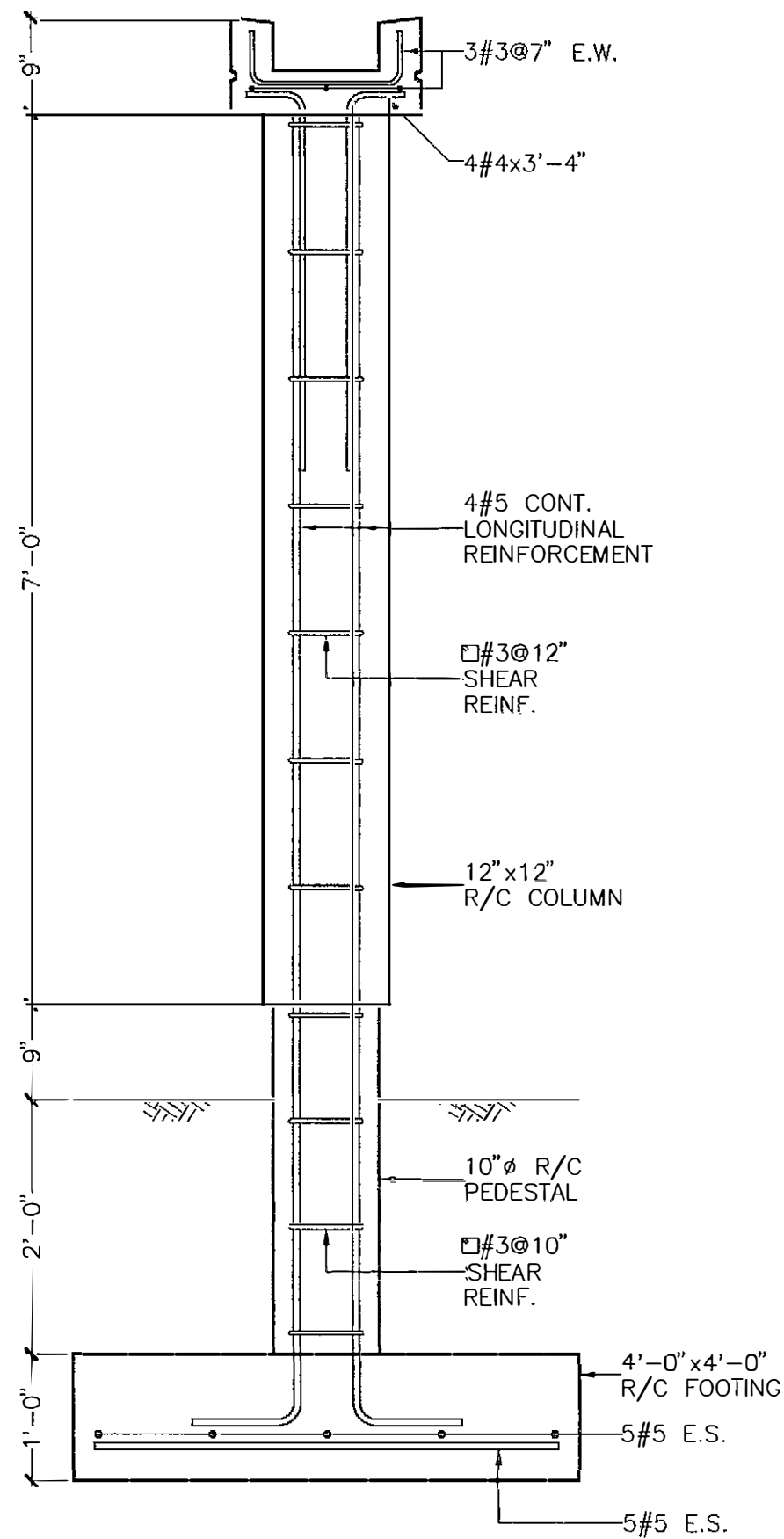
SCALE:
AS SHOWN

GUARD BOOTH PLANS,
SECTIONS AND DETAILS

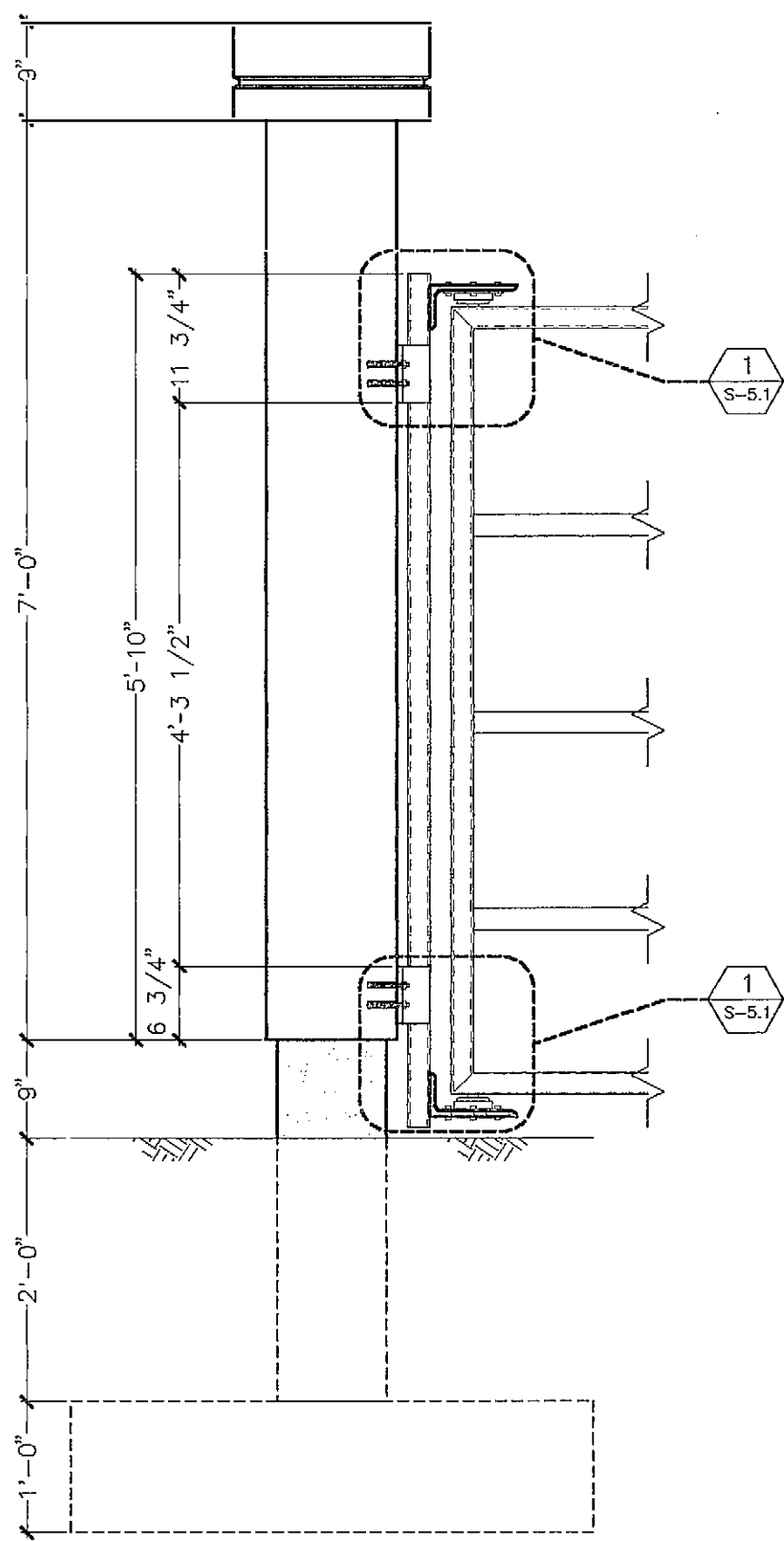
S
5.0

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Event: 4339DR-PR

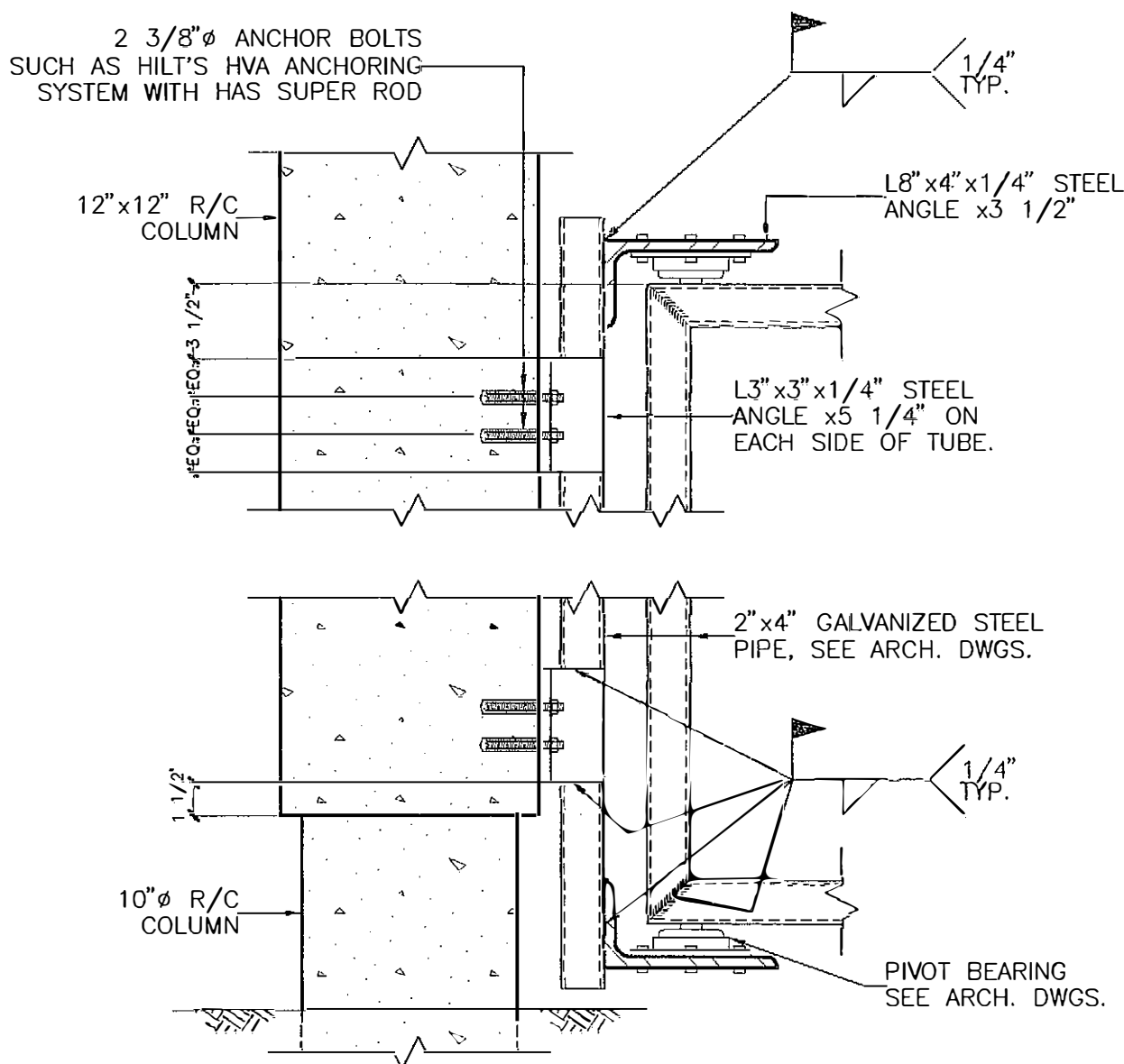
FED. AID PROJECT NO.	H'WAY NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
			P.R. 10	UTUADO ARECIBO	P.R.	1996	145	181



ENTRANCE GATE COLUMN SECTION
SCALE: 3/4"=1'-0"



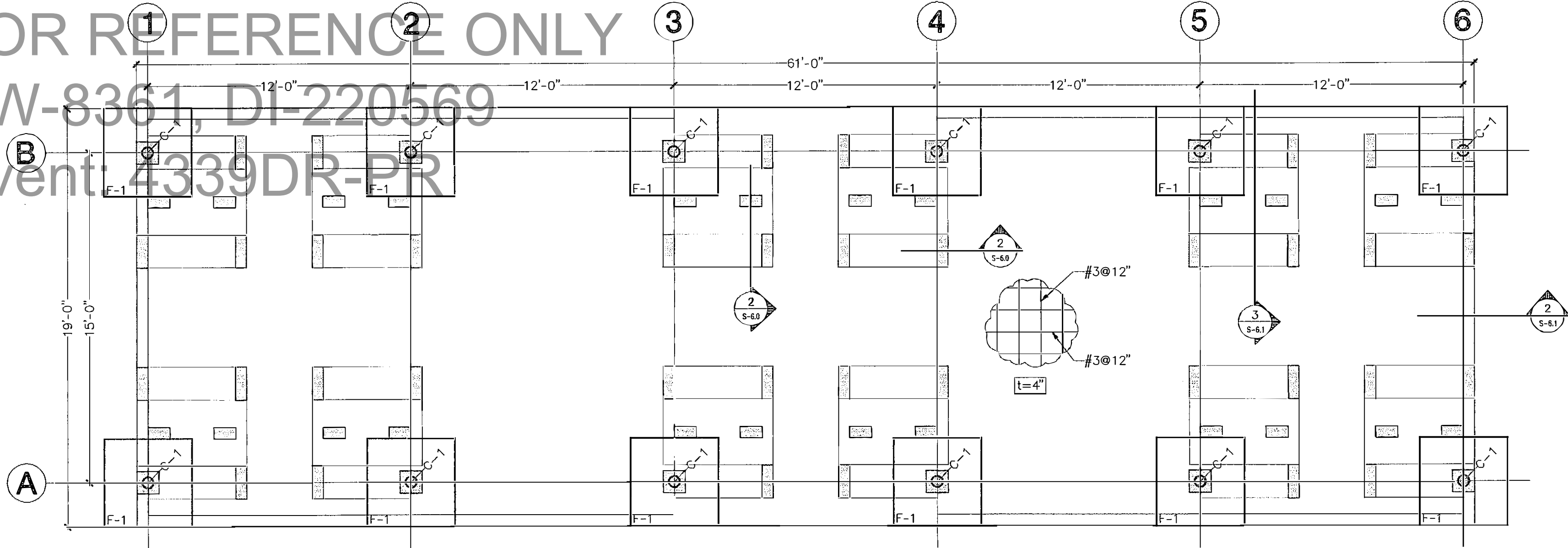
ENTRANCE GATE COLUMN ELEVATION
SCALE: 3/4"=1'-0"



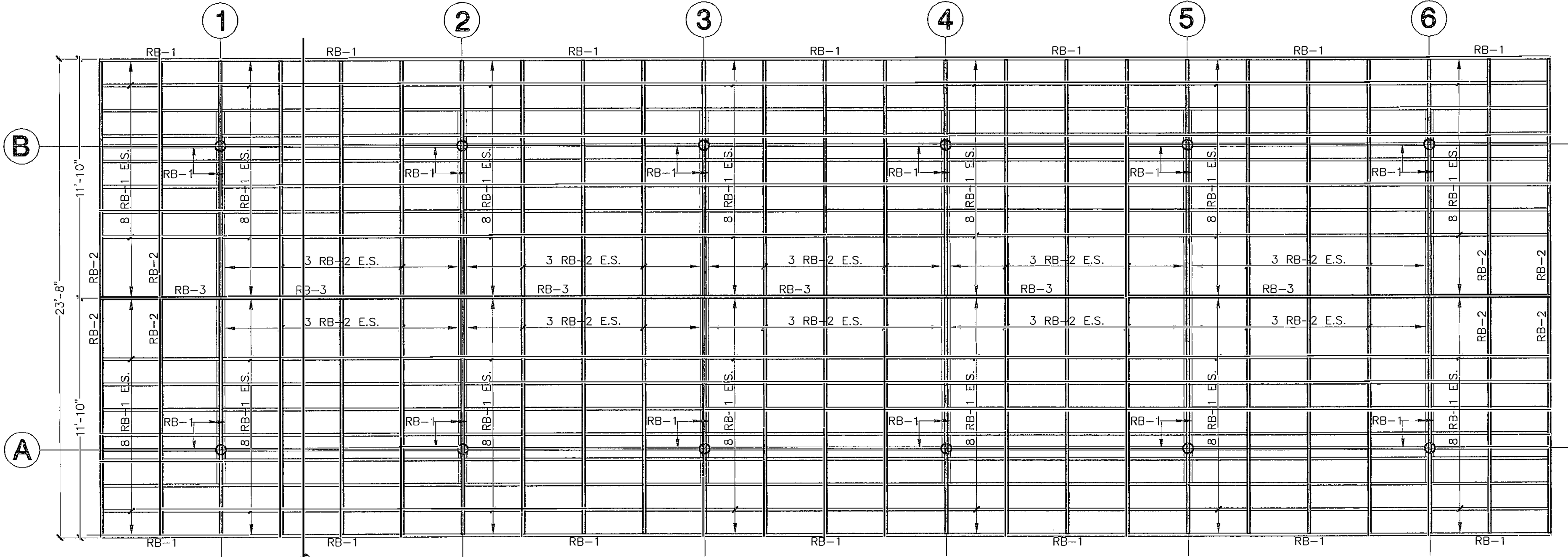
DETAIL
SCALE: 1 1/2"=1'-0"
1
S-5.1

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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FOR REFERENCE ONLY
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Event 4339DR-PR



FOUNDATION PLAN
SCALE: 1/4"=1'-0"

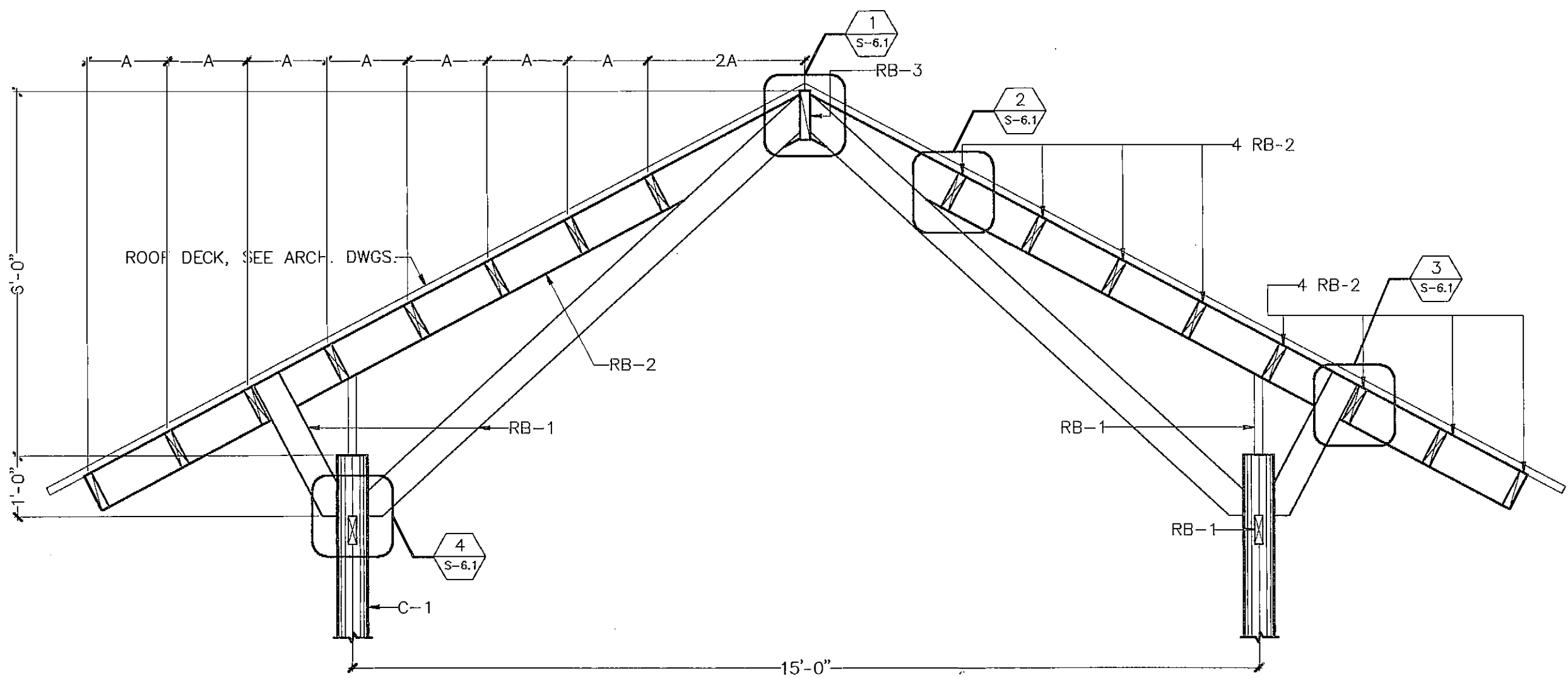


ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"

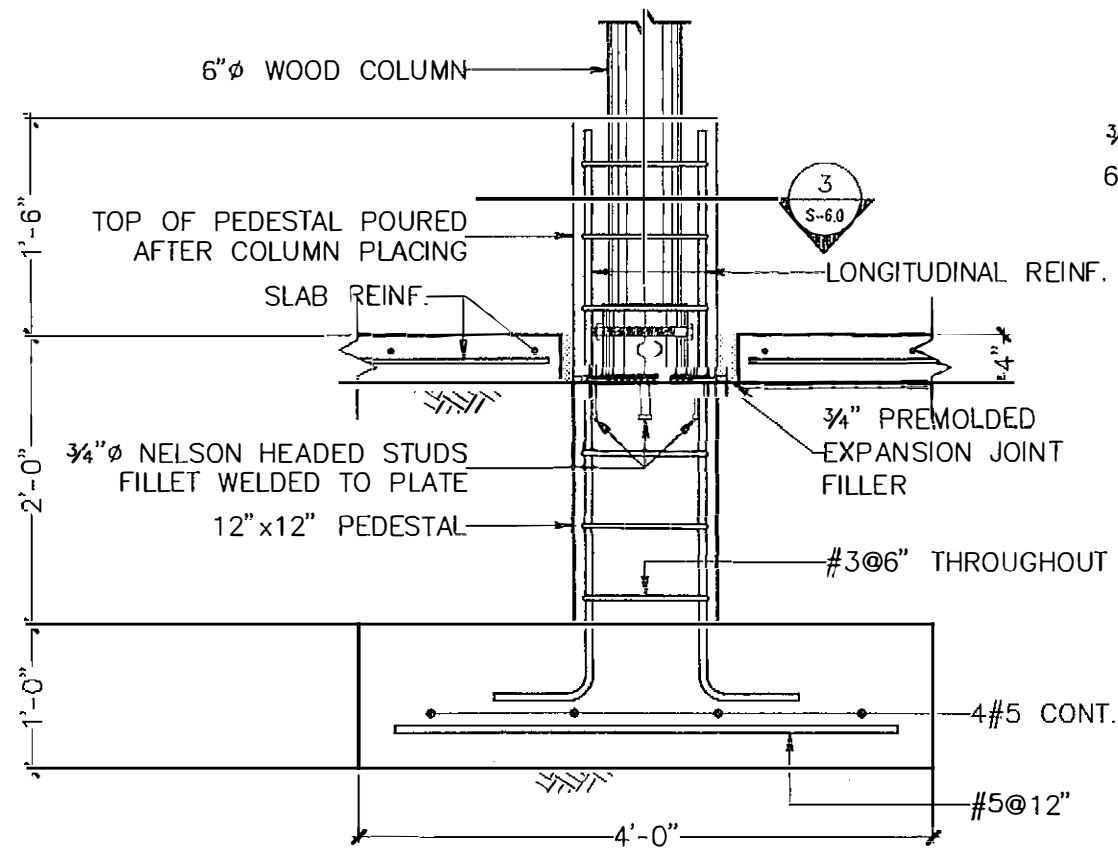
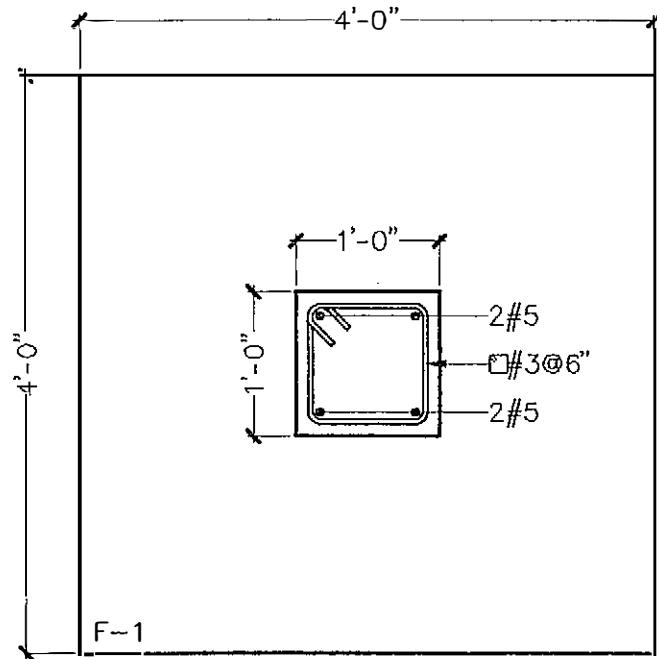
ROOF SECTIONS SCHEDULE

LABEL	SECTION
RB-1	2" x 6"
RB-2	2" x 8"
RB-3	2" x 10"
C-1	6" Ø

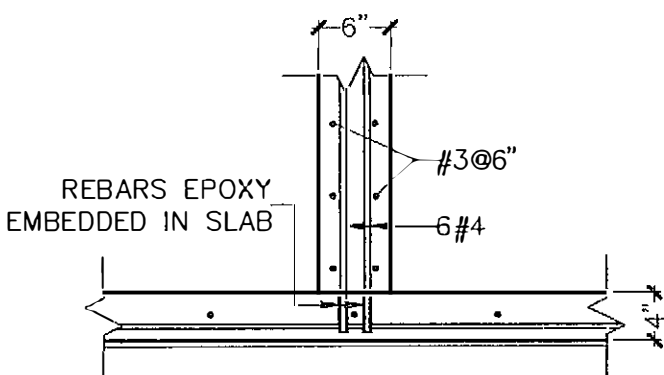
NOTE:
- FINAL DIMENSION TO BE VERIFIED
WITH ARCHITECTURAL DRAWINGS



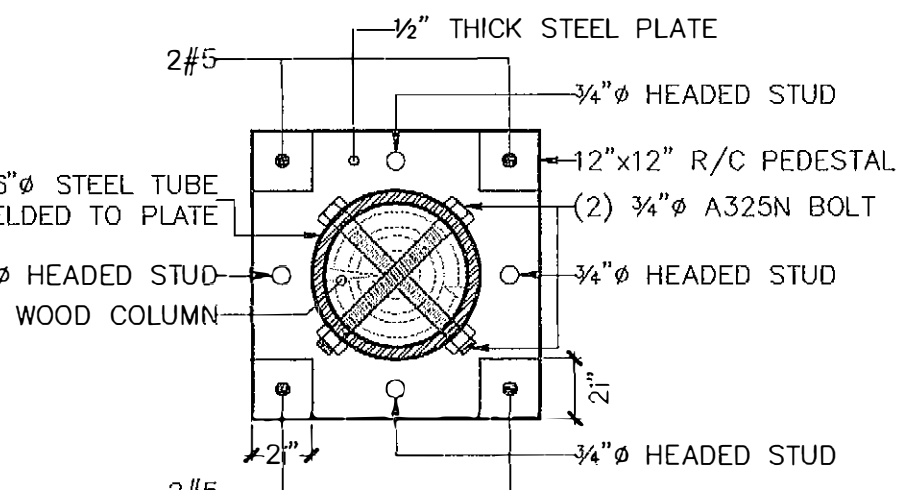
SECTION 1
SCALE: 1/2"=1'-0"



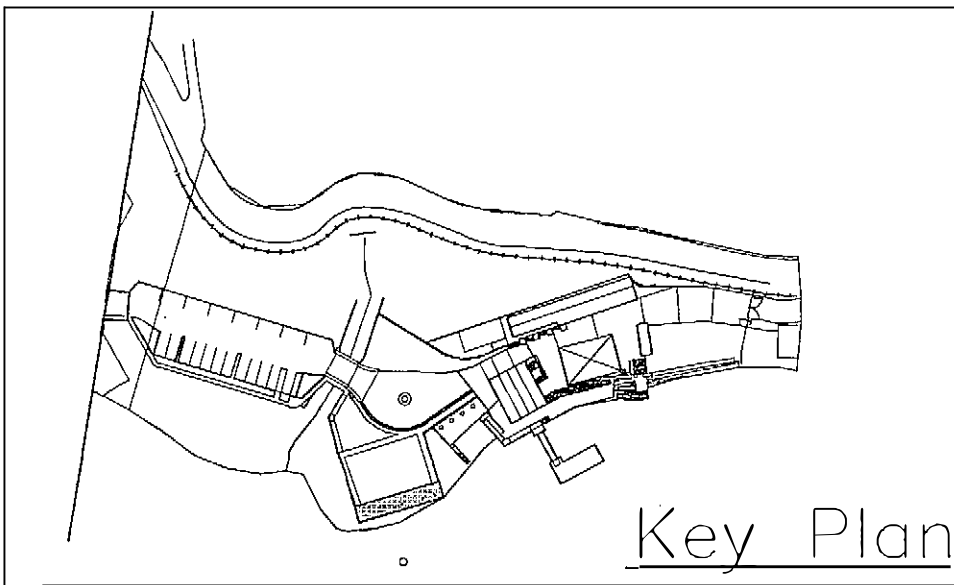
FOOTING DETAIL F-1
SCALE: 3/4"=1'-0"



SECTION 2
SCALE: 3/4"=1'-0"



SECTION 3
SCALE: 1 1/2"=1'-0"



Key Plan

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PUERTO RICO

DATE

REVISIONS

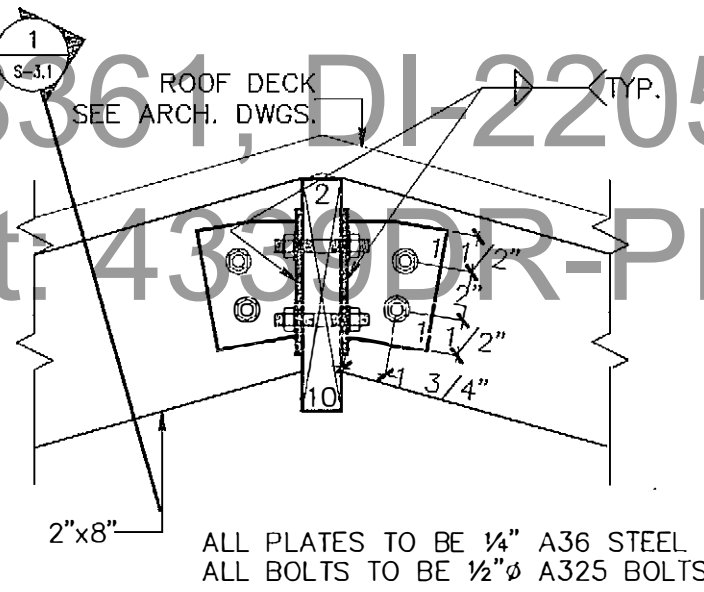
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AS SHOWN

RESTING AREA #1 PLANS,
SECTIONS AND DETAILS

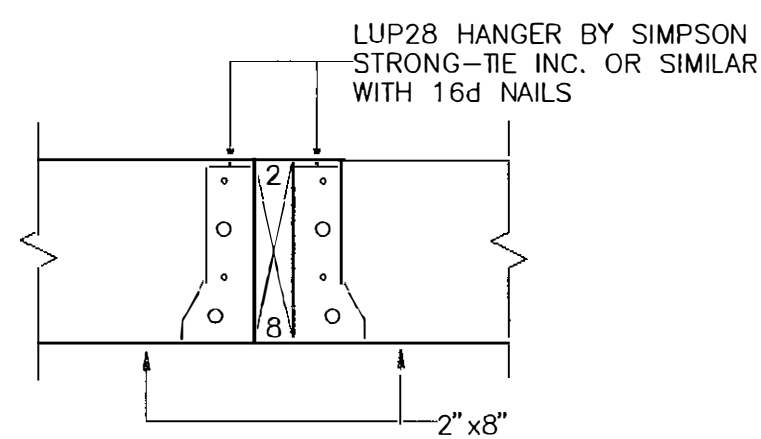
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FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	147	181

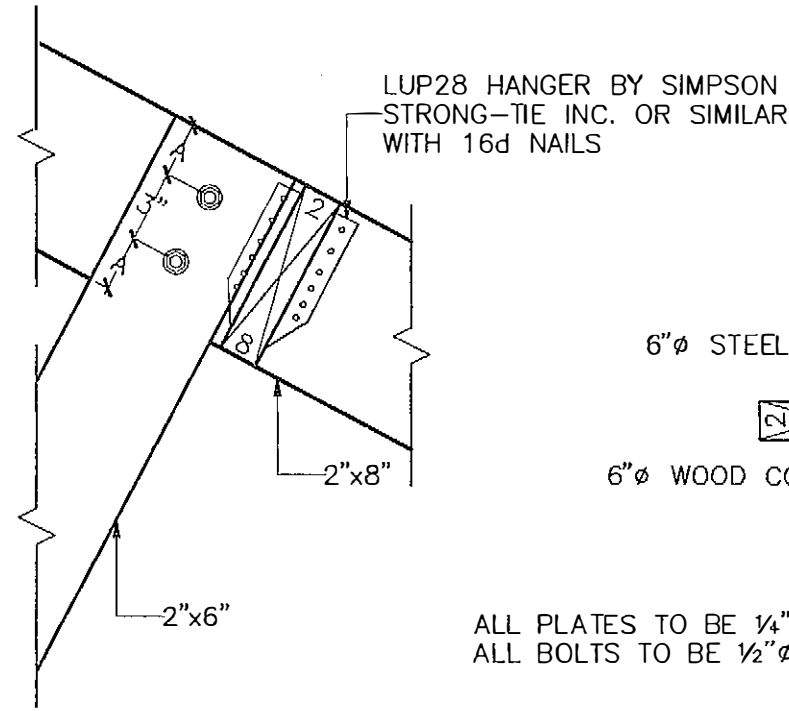
FOR REFERENCE ONLY
PW-8361, DI-220569
Event 4330PR-PR



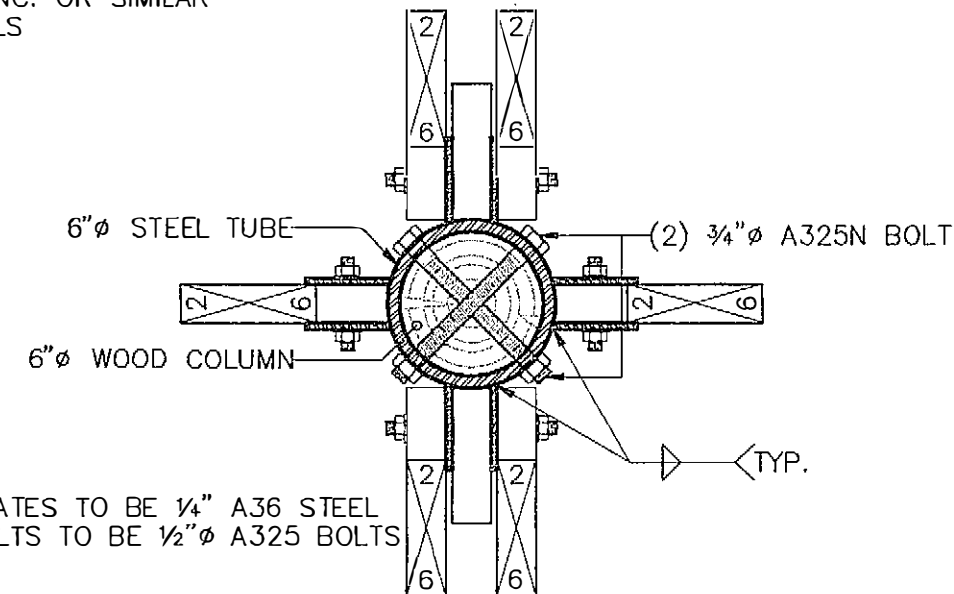
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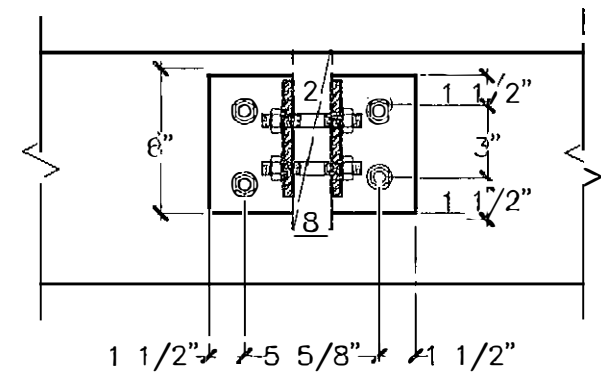
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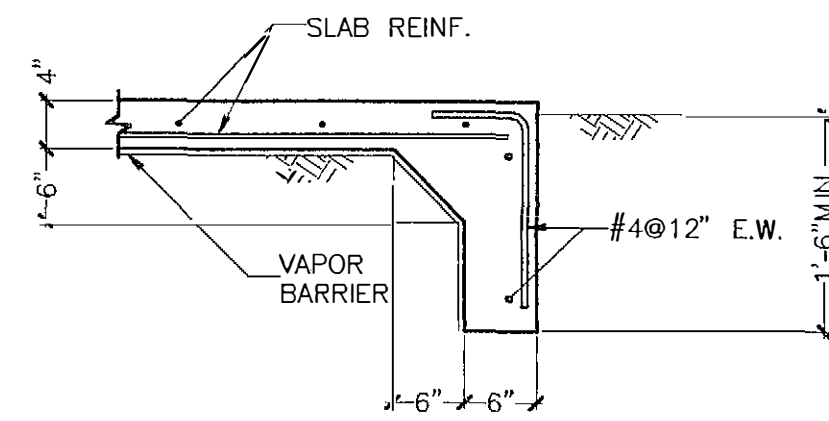
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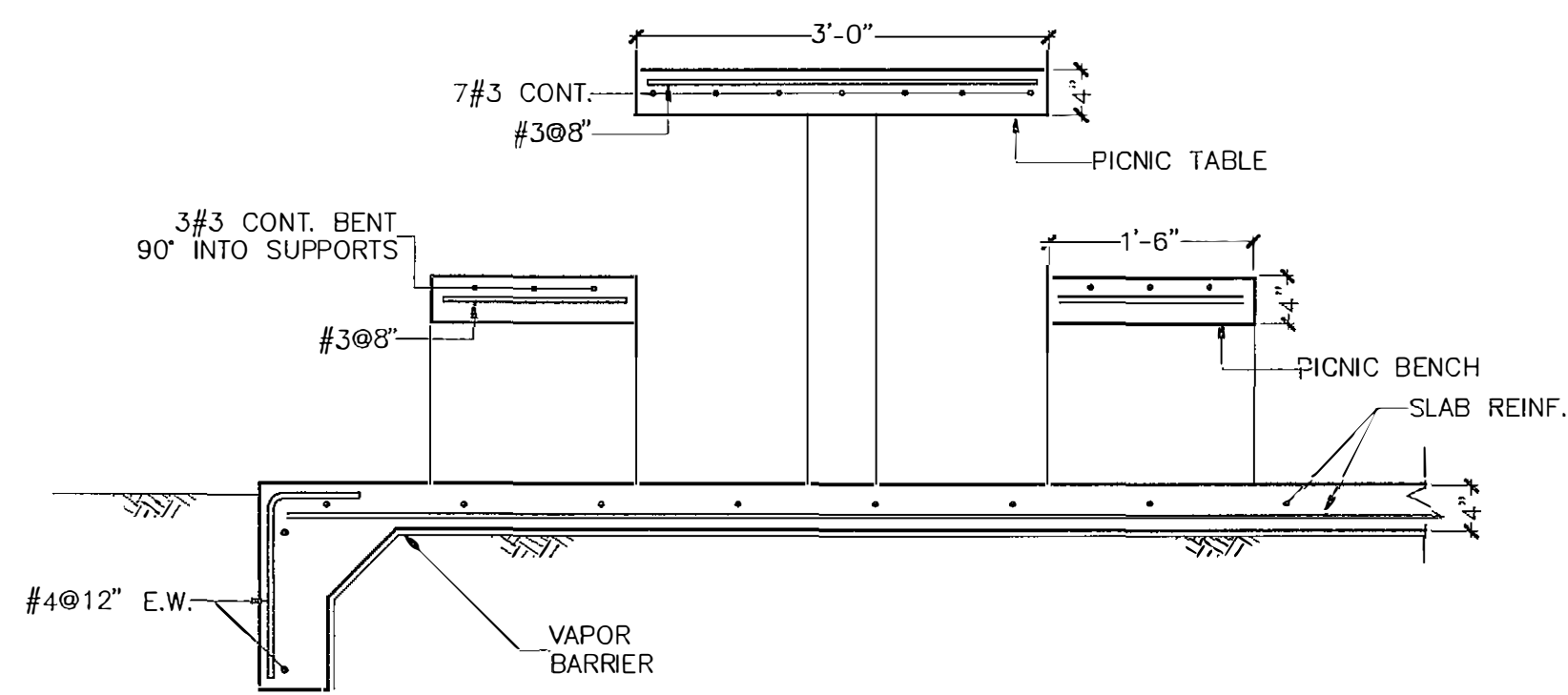
DETAIL 4
SCALE: 1 1/2"=1'-0"



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



SECTION 2
SCALE: 3/4"=1'-0"



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

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ENGINEERING CONSULTANTS
1767 JESÚS T. PIÑERO AVENUE
CAPARRA HEIGHTS, PUERTO RICO, 00920

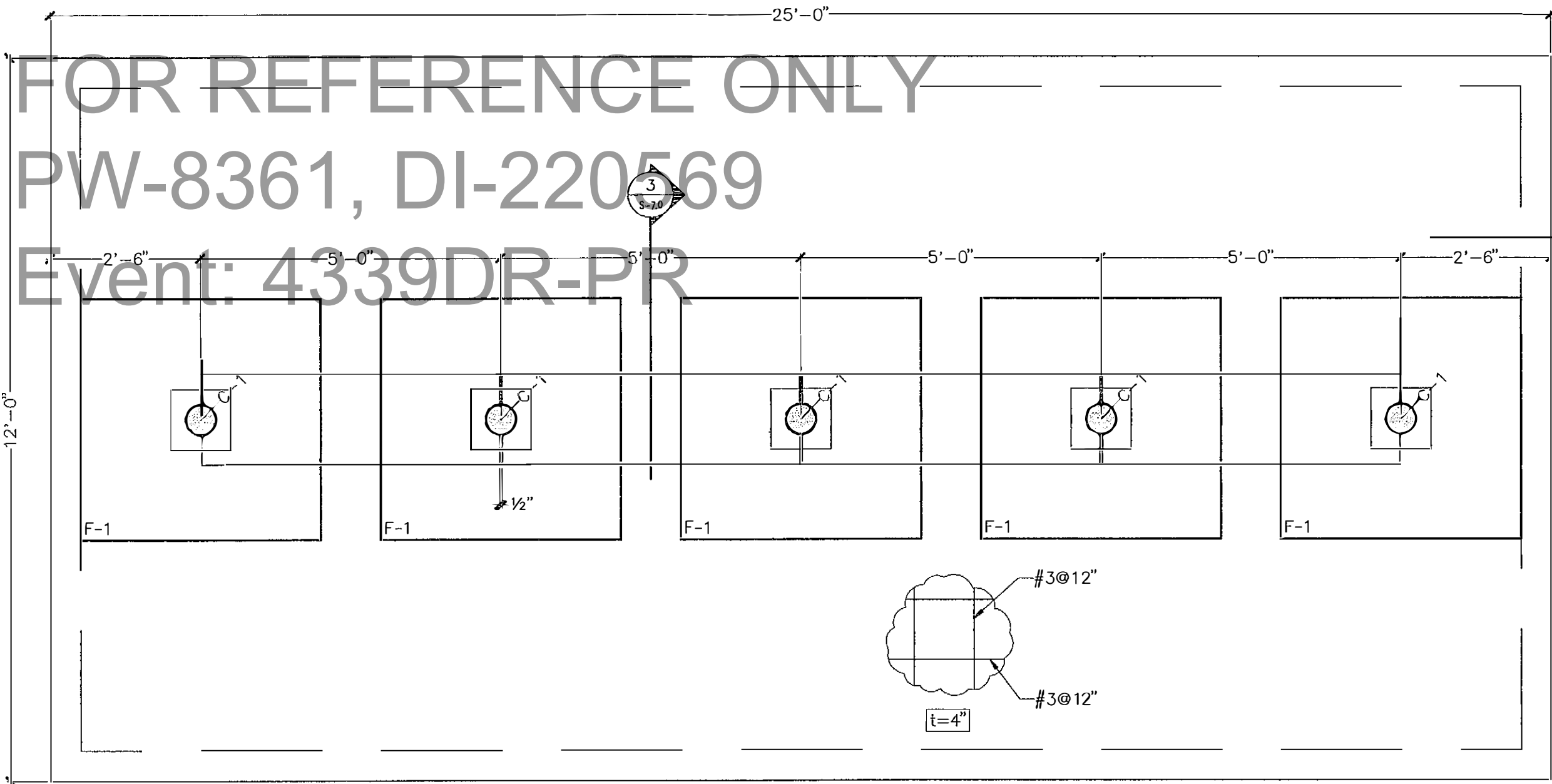
PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

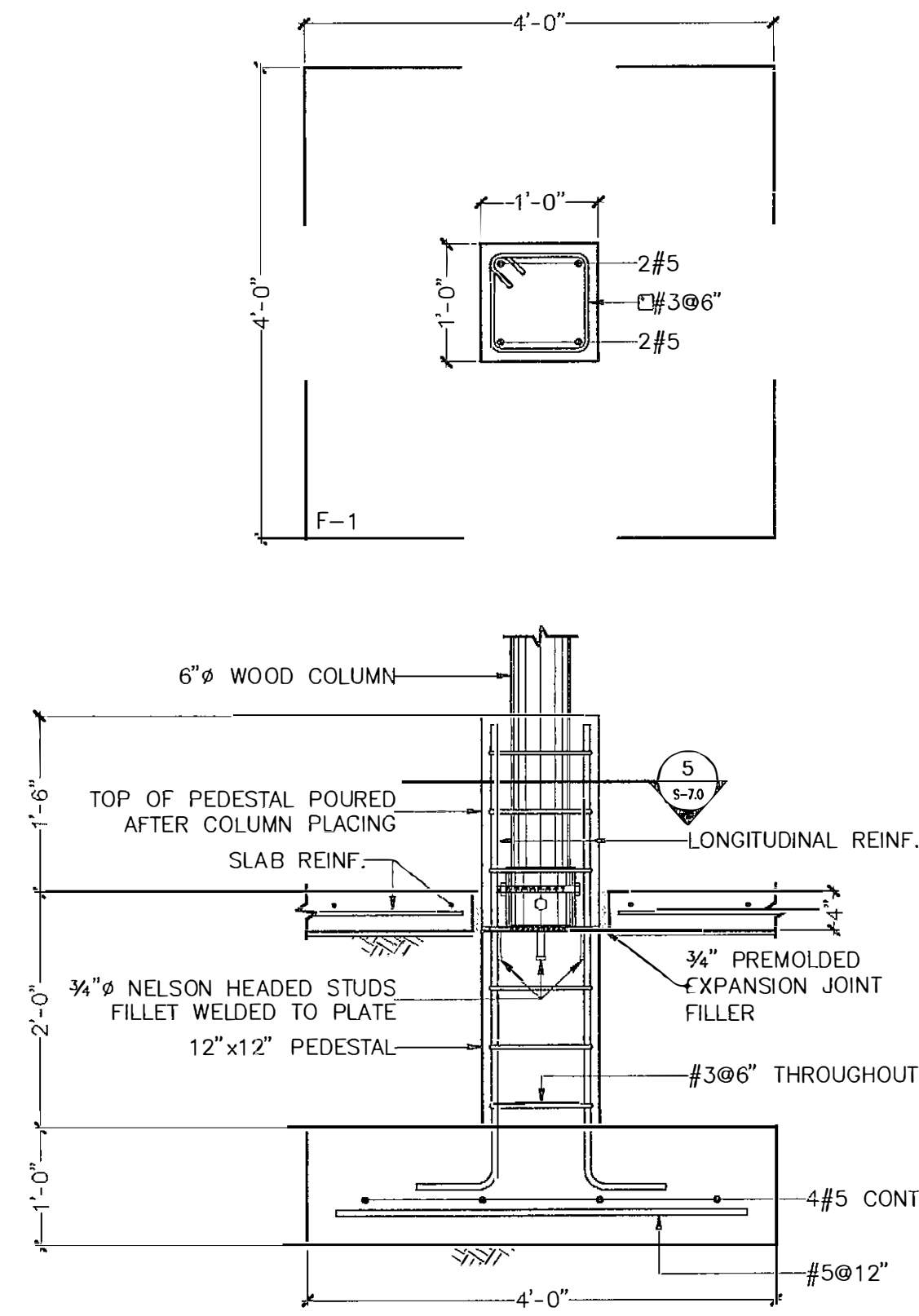
DATE	REVISIONS

SCALE: AS SHOWN	RESTING AREA #1 SECTIONS AND DETAILS	S 6.1
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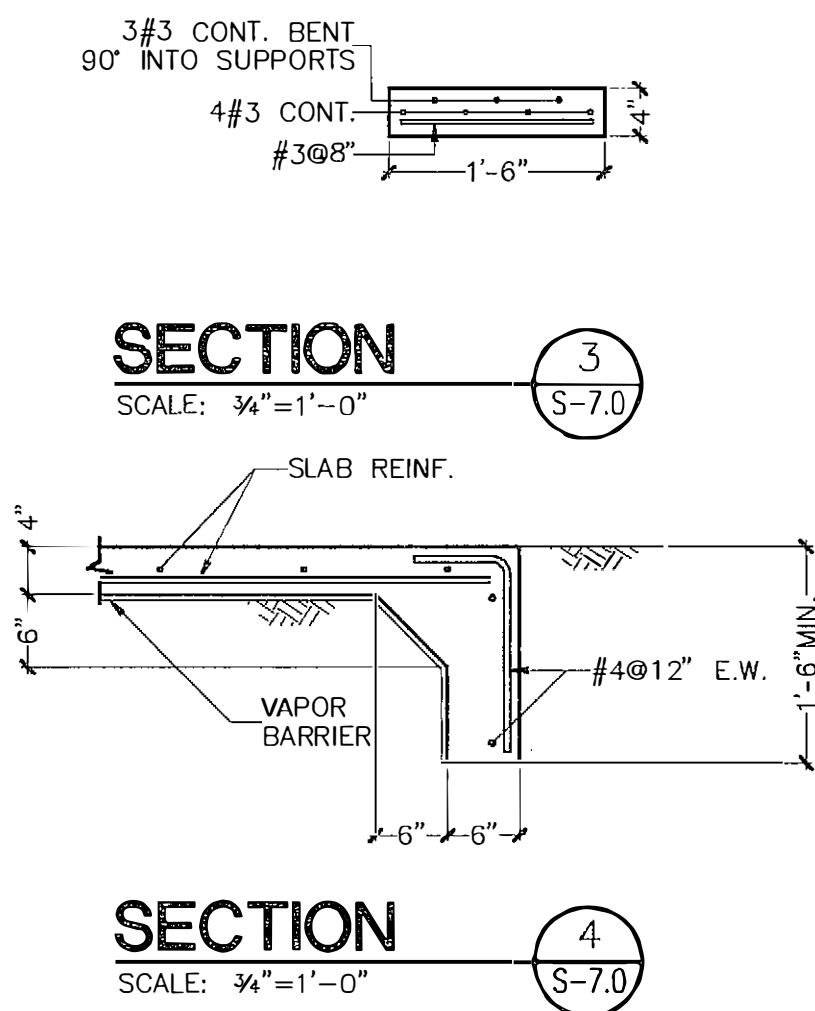
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		P.R. 10	UTUADO ARECIBO	P.R.	1996	148	181



FOUNDATION PLAN
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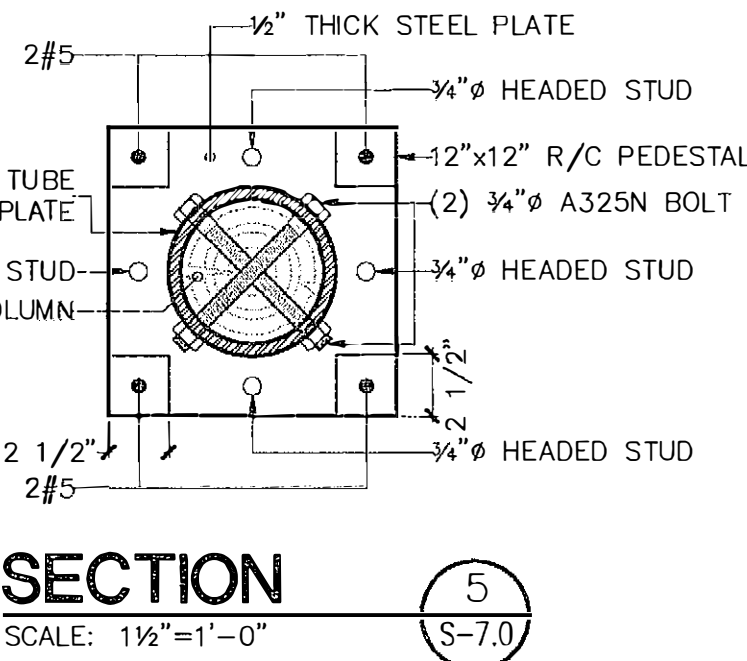


FOOTING DETAIL F-1
SCALE: 3/4"=1'-0"



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

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

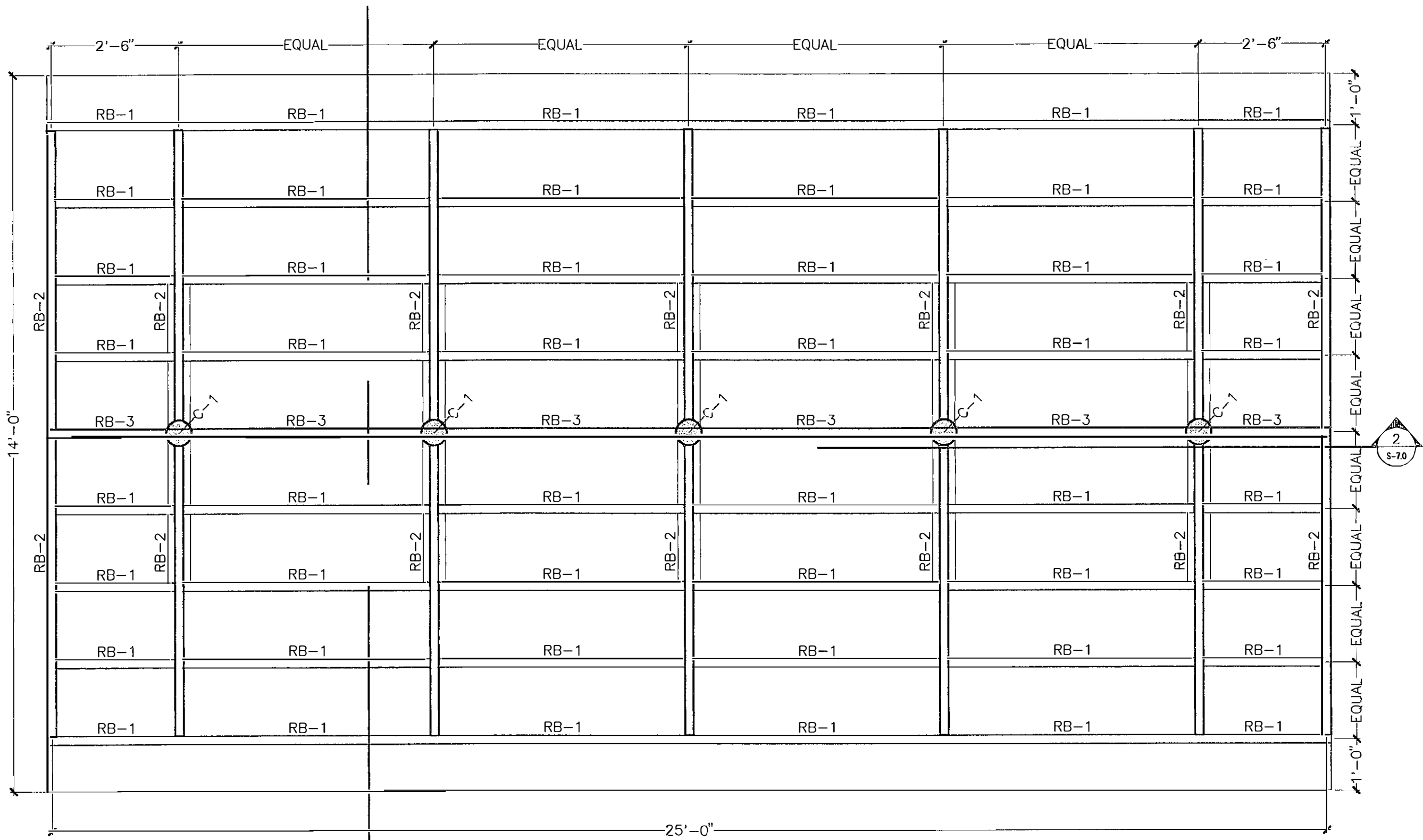


SECTION 5
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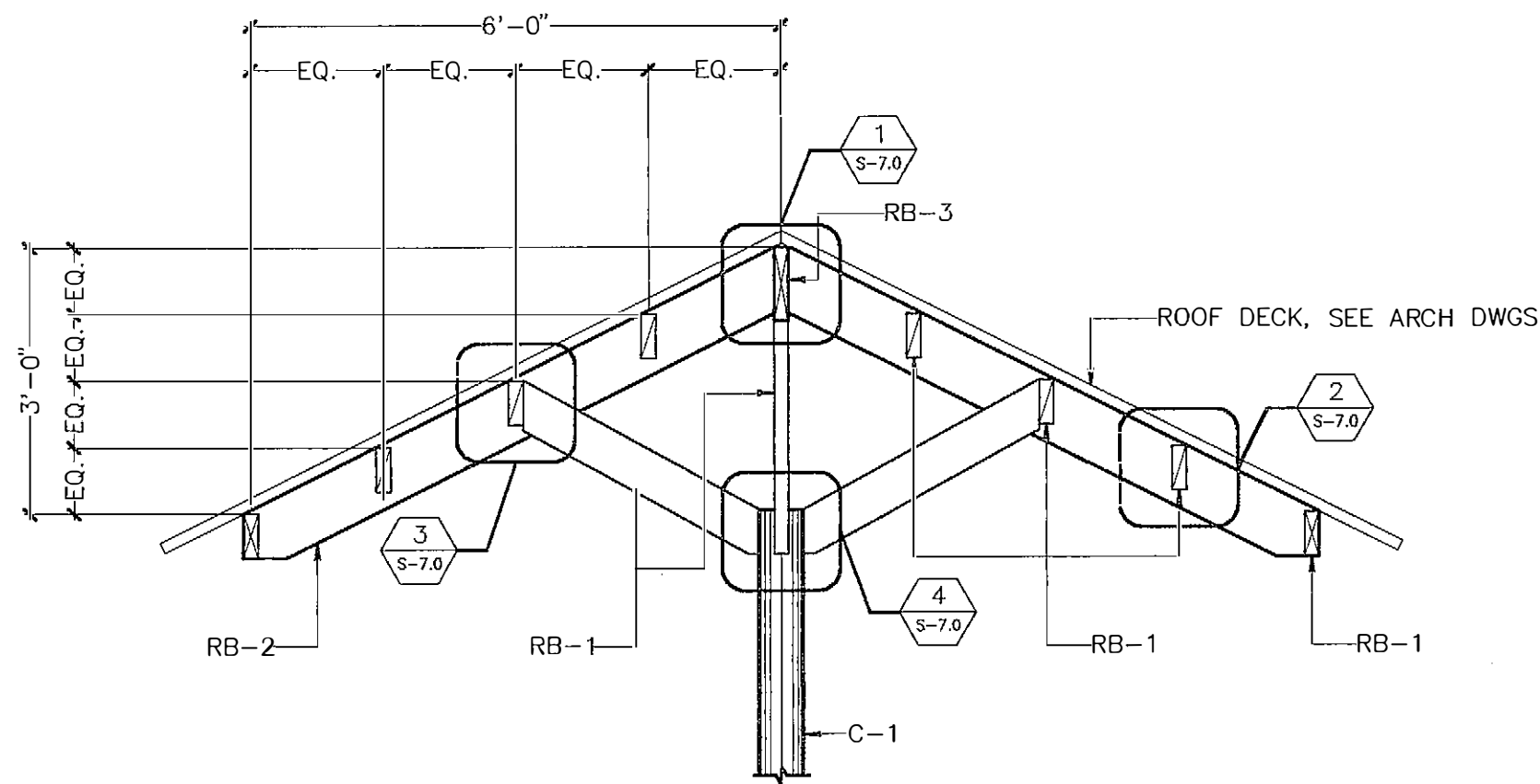
ROOF SECTIONS SCHEDULE

LABEL	SECTION
RB-1	2" x 6"
RB-2	2" x 8"
RB-3	2" x 10"
C-1	6" Ø

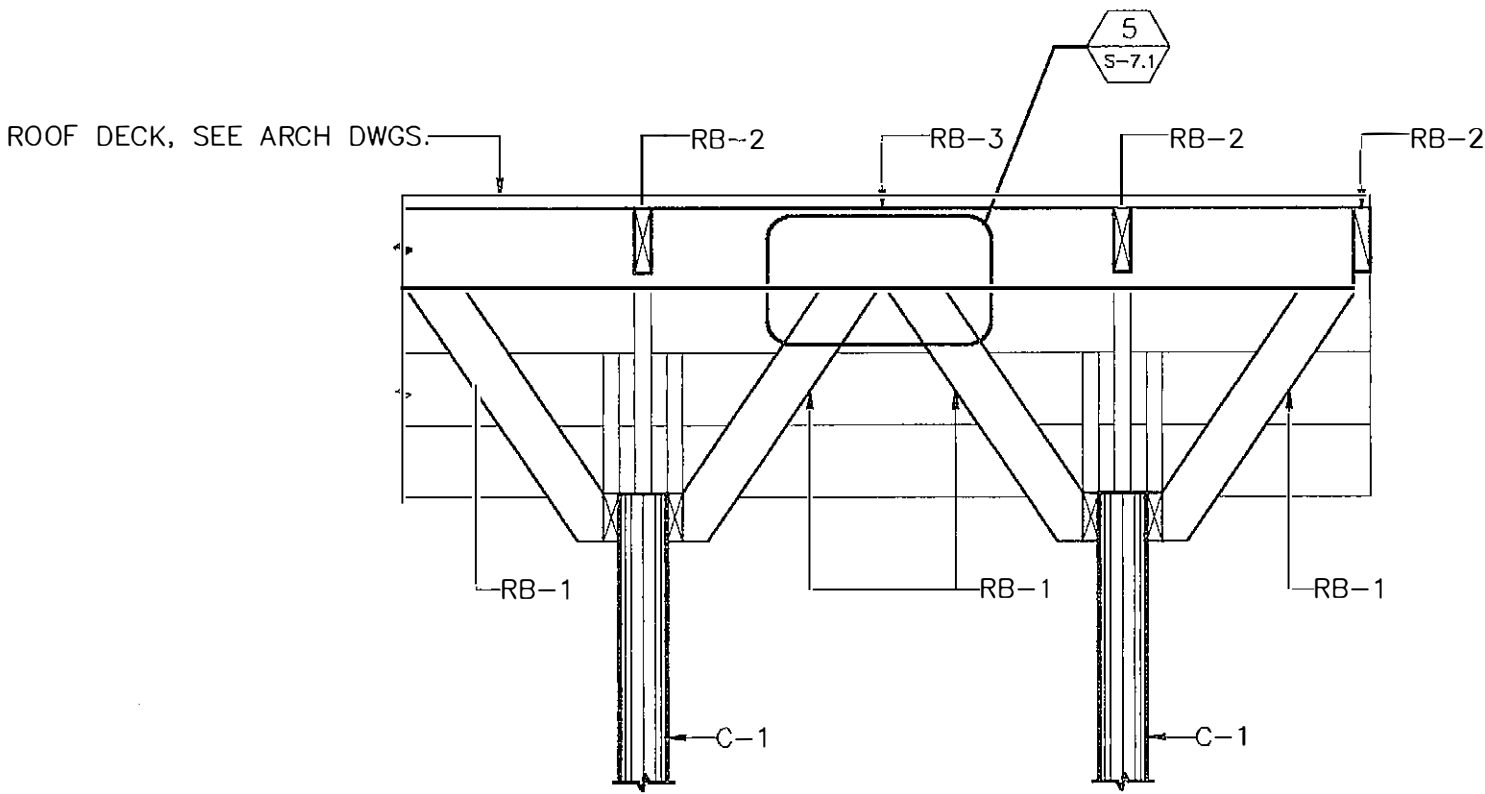
NOTE:
- FINAL DIMENSION TO BE VERIFIED
WITH ARCHITECTURAL DRAWINGS



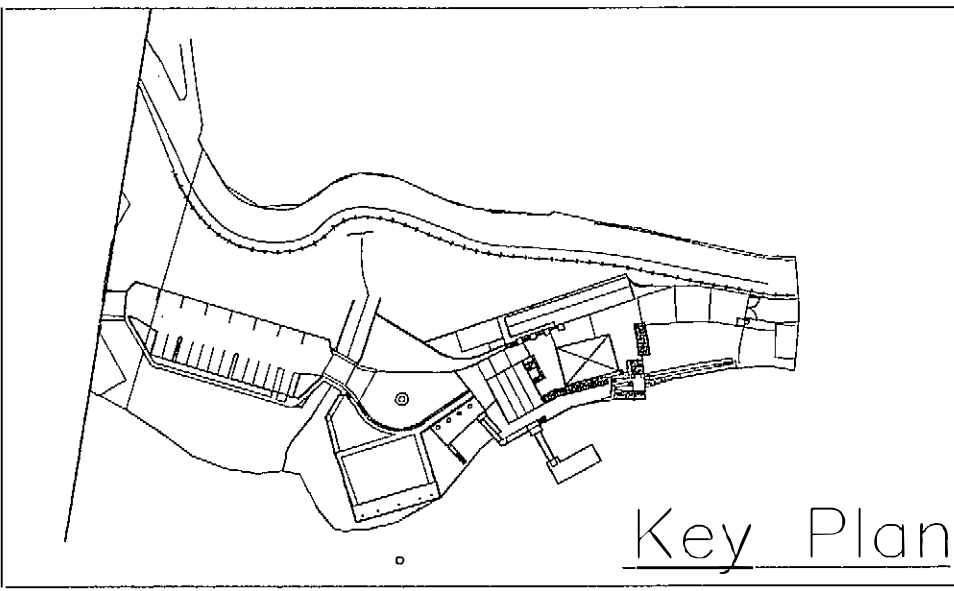
ROOF FRAMING PLAN
SCALE: 1/2"=1'-0"



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



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



Key Plan

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE REVISIONS

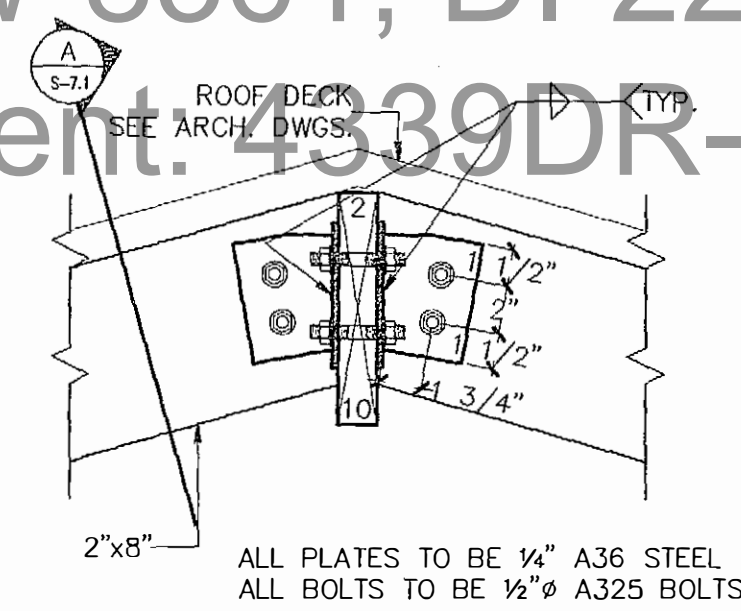
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RESTING AREA #3 PLANS,
SECTIONS AND DETAILS

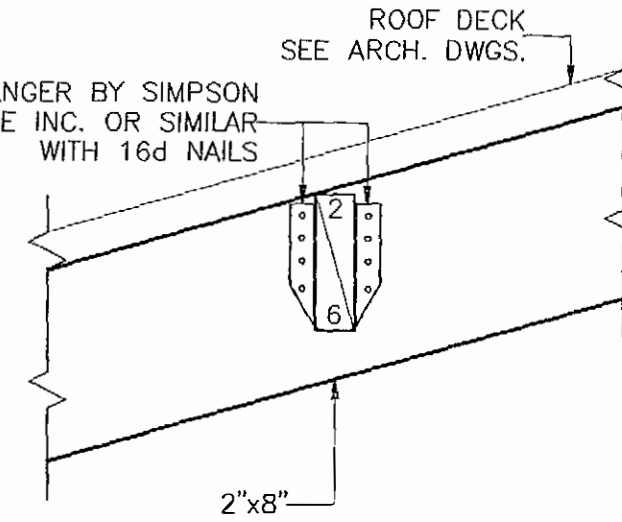
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FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

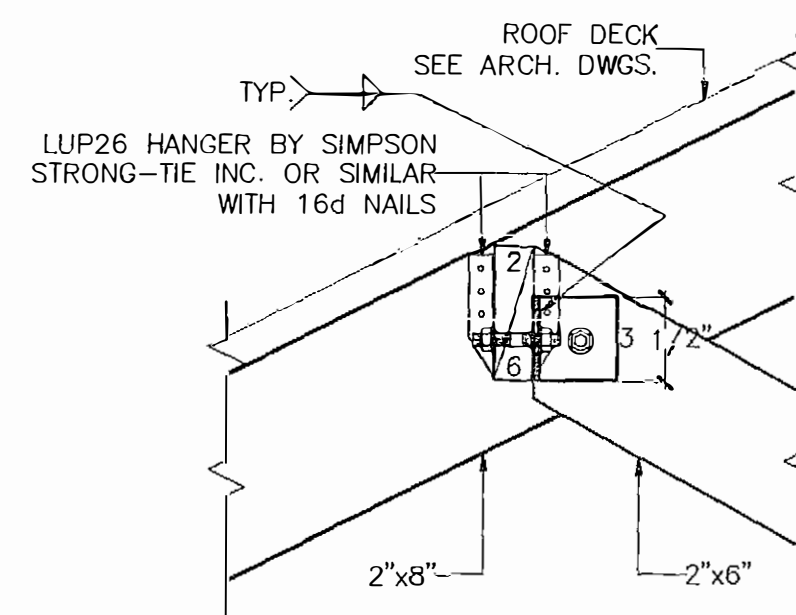
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		P.R. 10	UTUADO ARECIBO	P.R.	1996	149	181



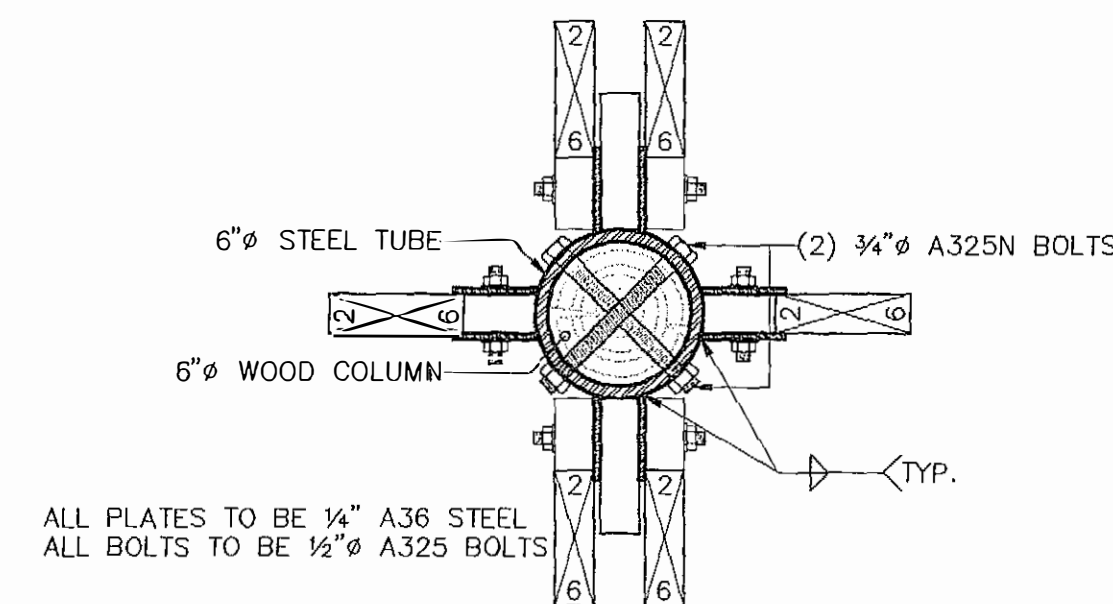
DETAIL 1
SCALE: 1 1/2"=1'-0"
S-7.1



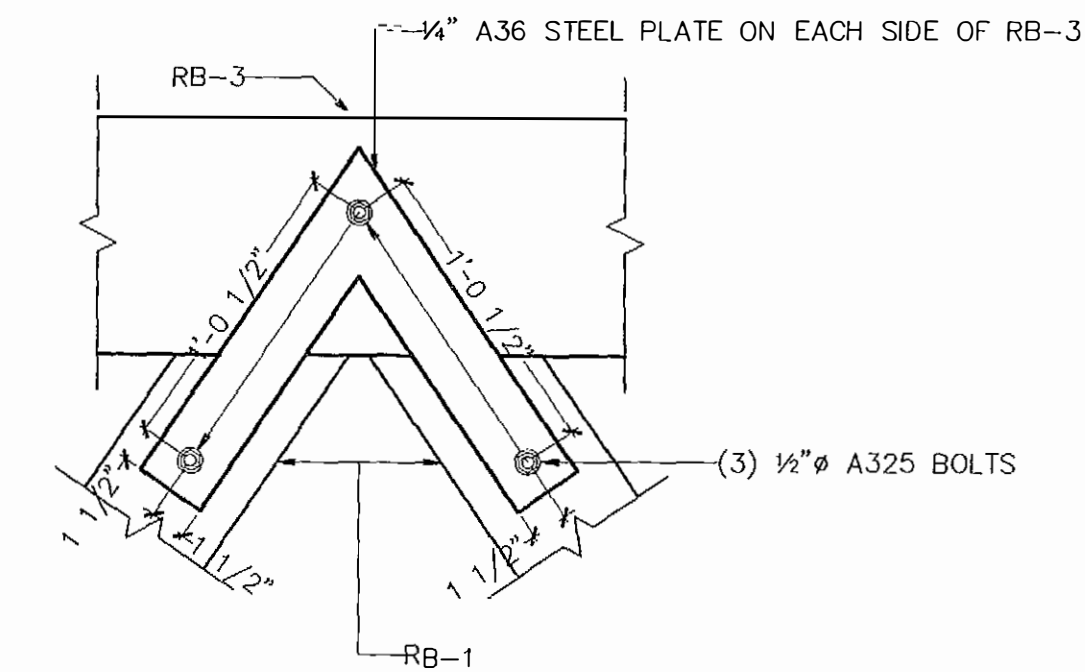
DETAIL 2
SCALE: 1 1/2"=1'-0"
S-7.1



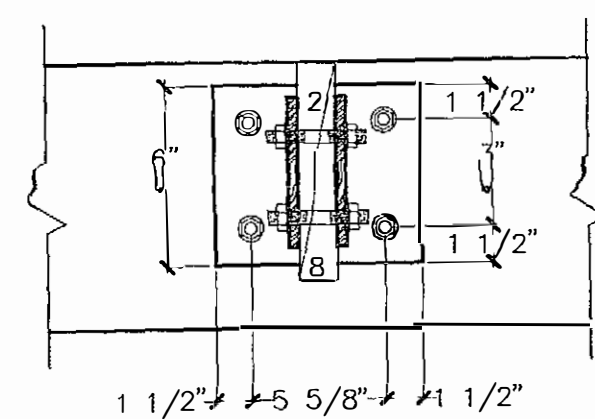
DETAIL 3
SCALE: 1 1/2"=1'-0"
S-7.1



DETAIL 4
SCALE: 1 1/2"=1'-0"
S-7.1



DETAIL 5
SCALE: 1 1/2"=1'-0"
S-7.1



SECTION A
SCALE: 1 1/2"=1'-0"
S-7.1

CARLOS I. CABRÉ & ASSOCIATES
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CAPARRA HEIGHTS, PUERTO RICO, 00920

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
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PUERTO RICO

DATE	REVISIONS

SCALE:
AS SHOWN

RESTING AREA #2
SECTIONS AND DETAILS

S
7.1

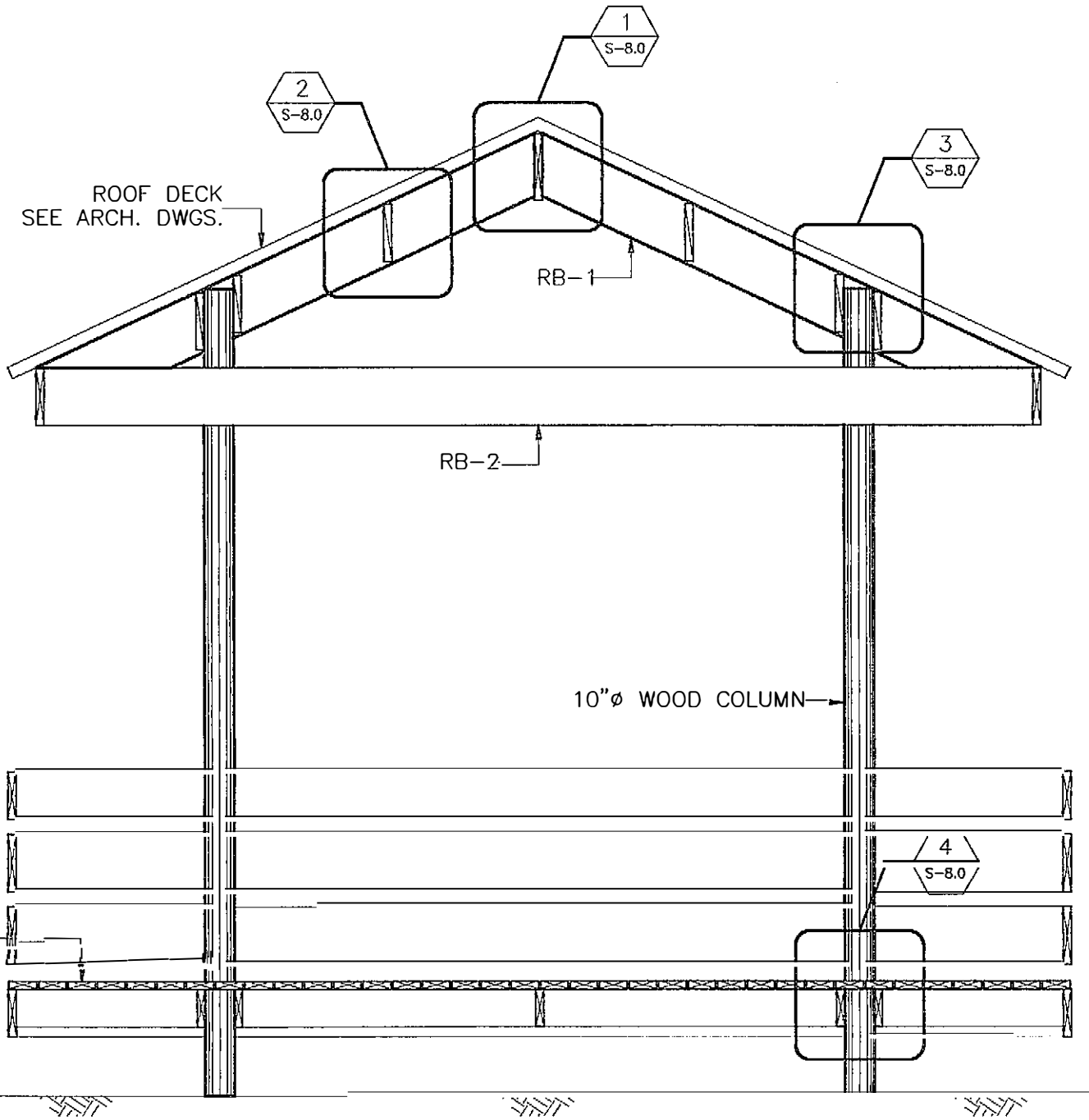
FOR REFERENCE ONLY
PW-8361, DI-220569
Event 1339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	150	181

ROOF SECTIONS SCHEDULE

LABEL	SECTION
FB-1	2" x 10"
FB-2	2" x 8"
RB-1	2" x 12"
RB-2	2" x 12"
C-1	10" Ø

NOTE:
- FINAL DIMENSION TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS

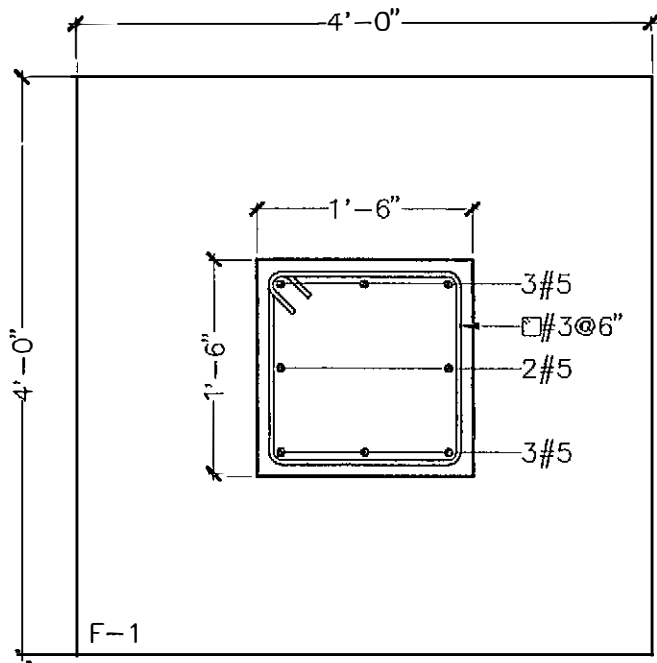


FOUNDATION AND FLOOR FRAMING PLAN

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

ROOF FRAMING PLAN

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



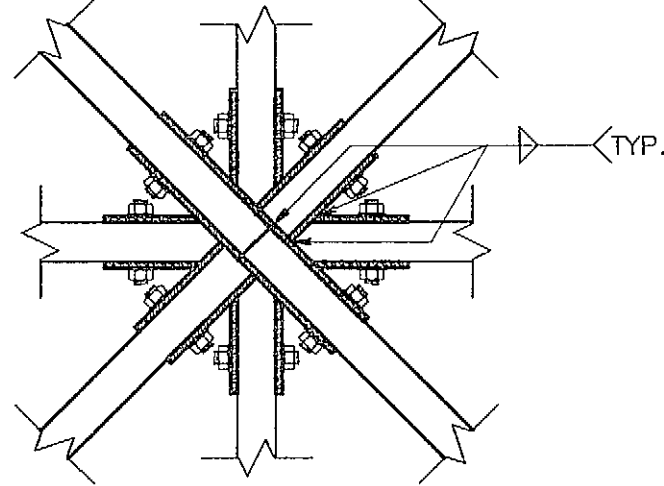
SECTION 1

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

1

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-ALL BOLTS TO BE 1/2" Ø A325 BOLTS
-ALL PLATES TO BE 1/4" A36 STEEL



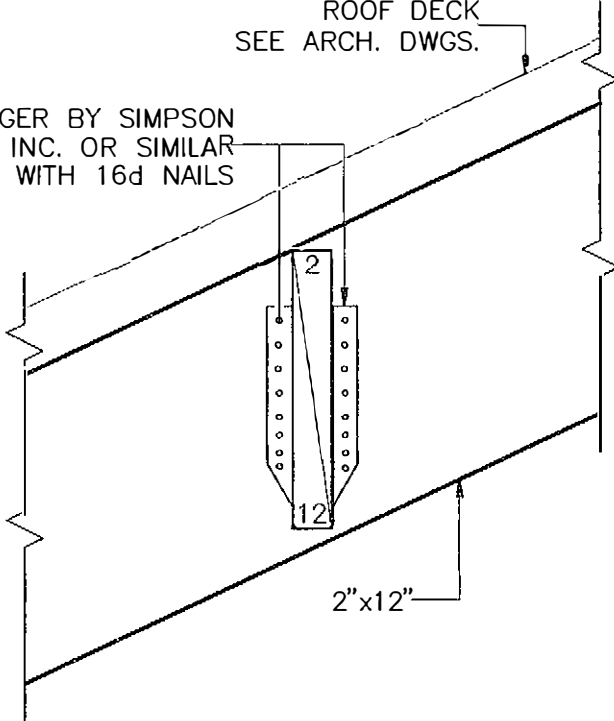
DETAIL 1

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

1

S-8.0

LUP210 HANGER BY SIMPSON
STRONG-TIE INC. OR SIMILAR
WITH 16d NAILS

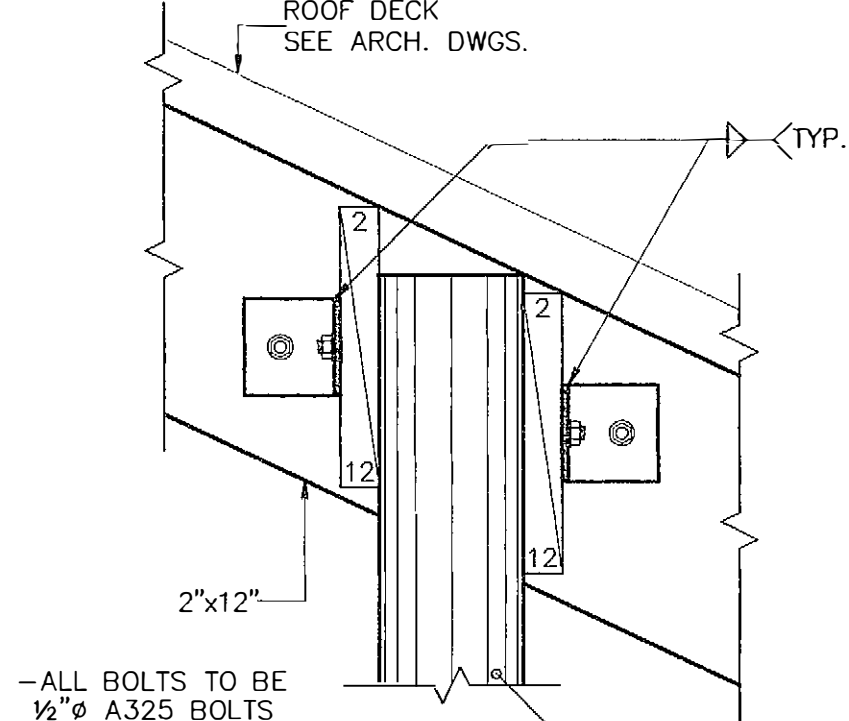


DETAIL 2

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

2

S-8.0

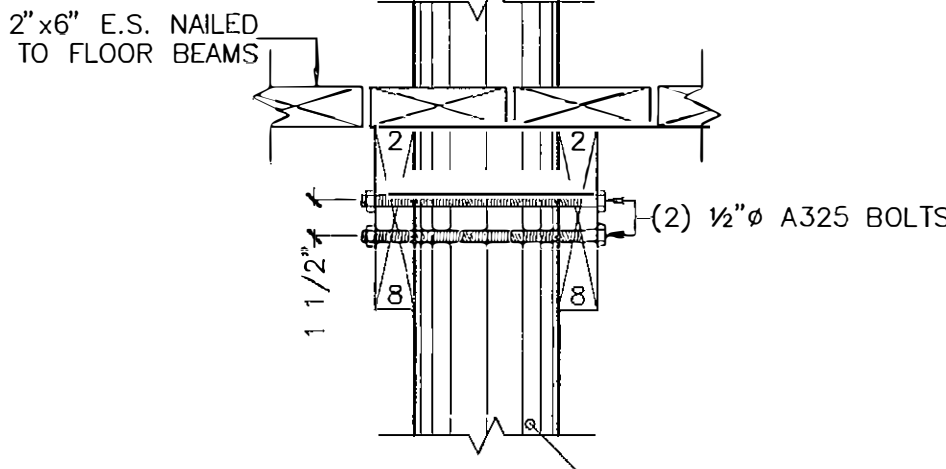


DETAIL 3

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

3

S-8.0

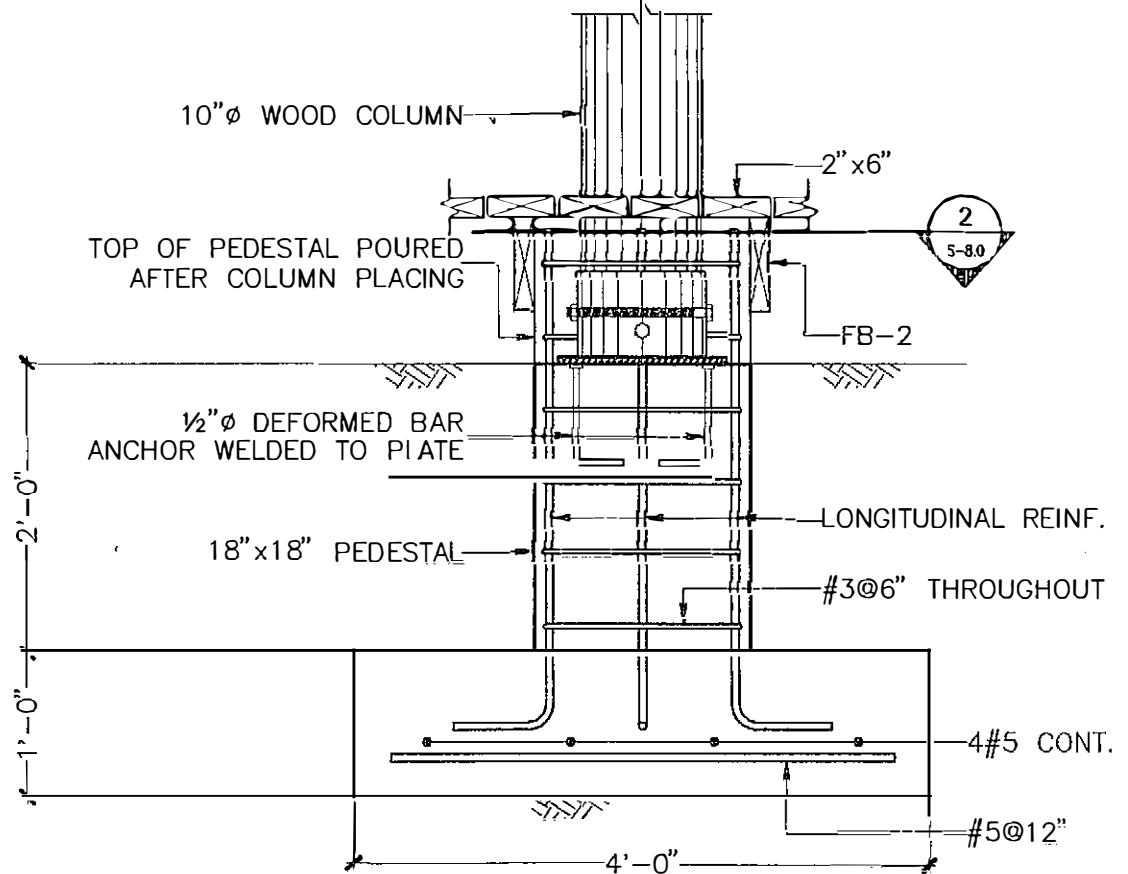


DETAIL 4

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

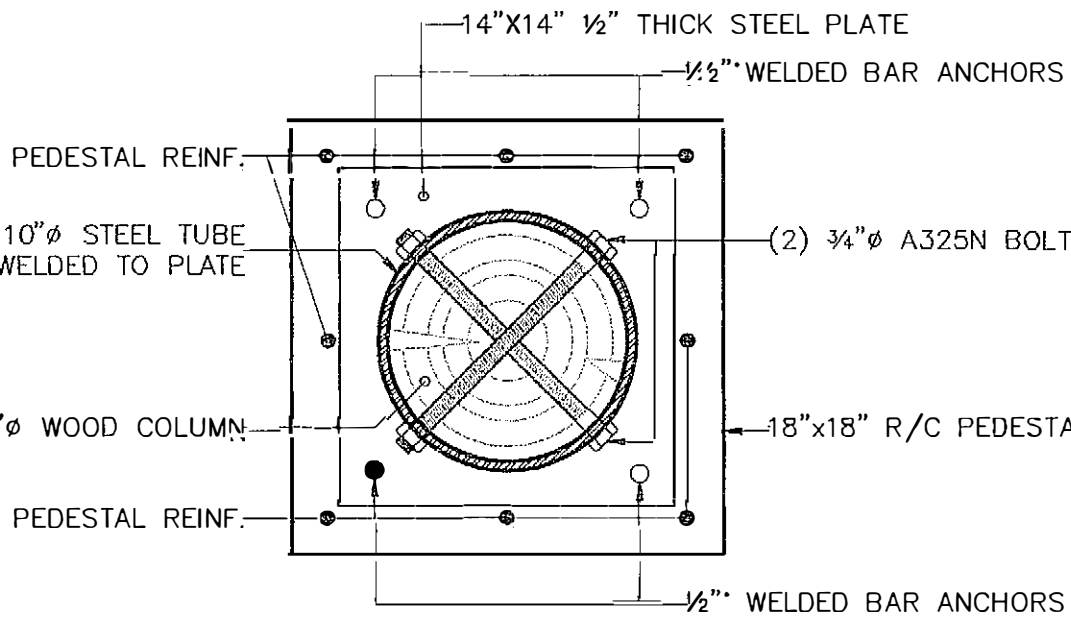
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FOOTING DETAIL F-1

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

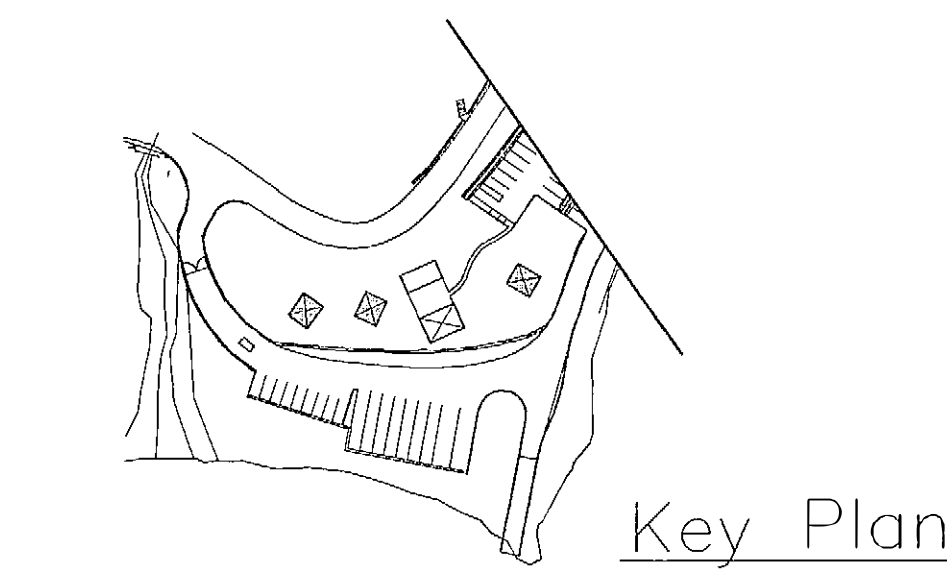


SECTION 2

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

2

S-8.0



Key Plan

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ENGINEERING CONSULTATNS
1767 JESÚS T. PIÑERO AVENUE
CAPARRA HEIGHTS, PUERTO RICO, 00920

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE

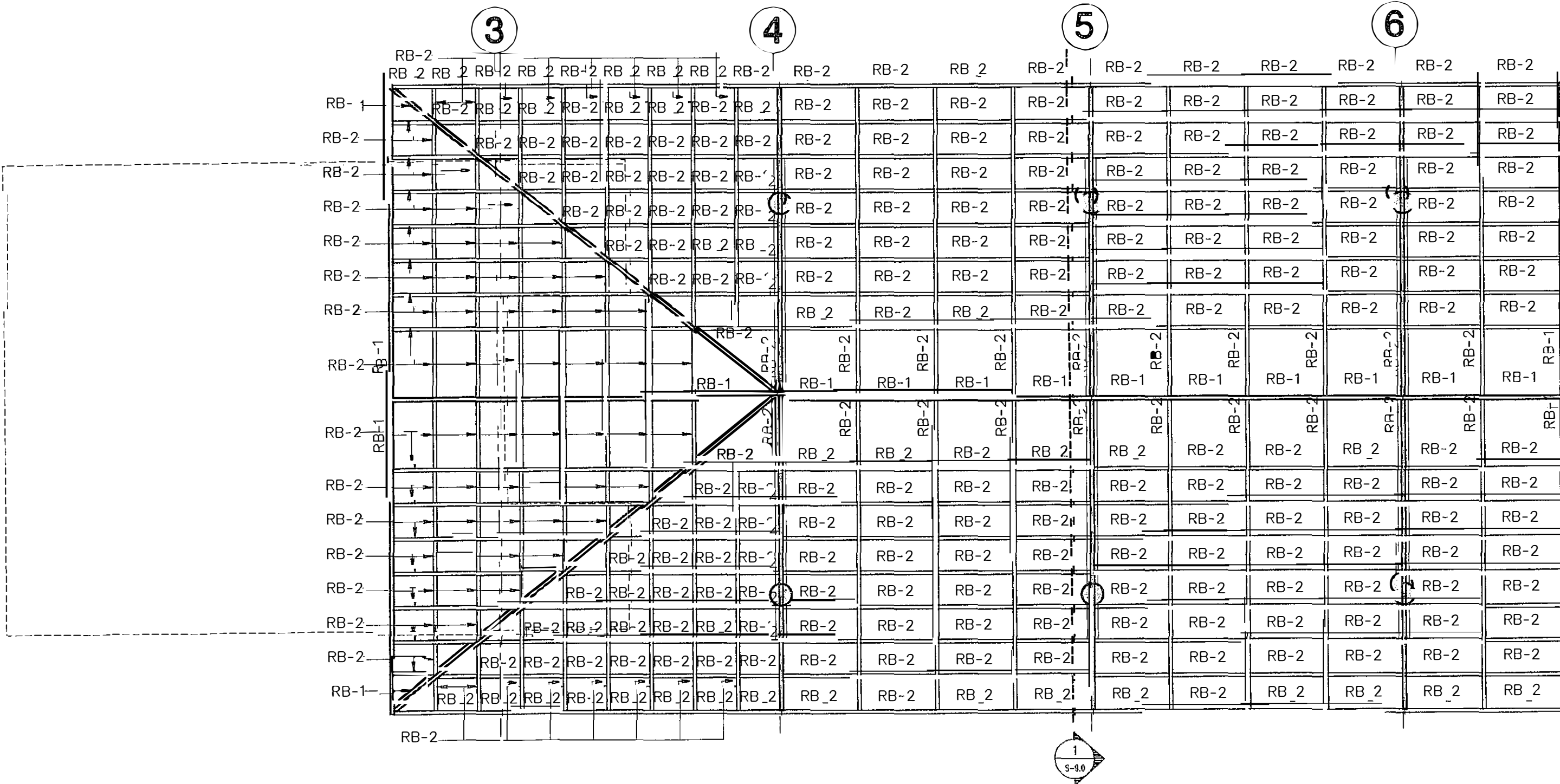
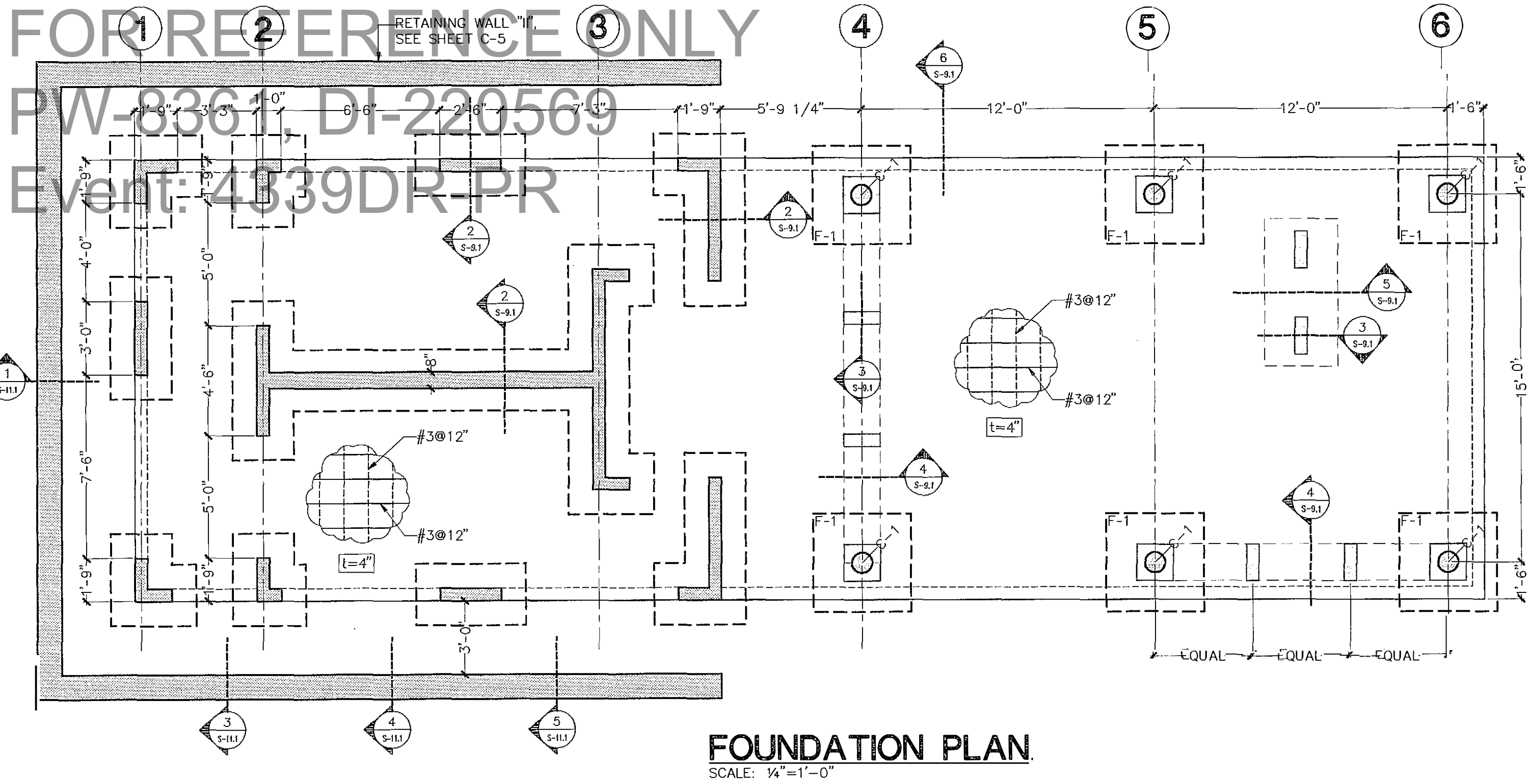
REVISIONS

SCALE:
AS SHOWN

PICNIC GAZEBO PLANS,
SECTIONS AND DETAILS

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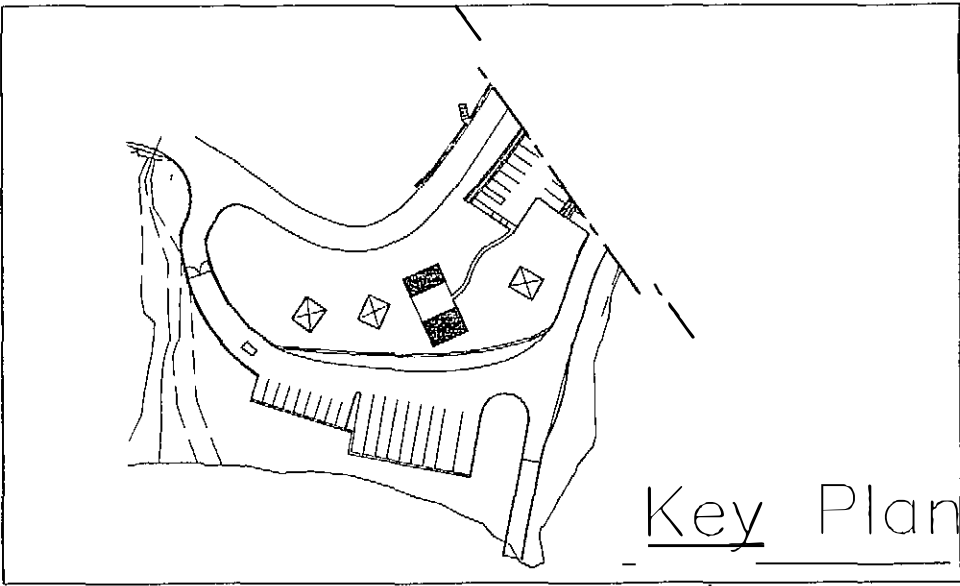
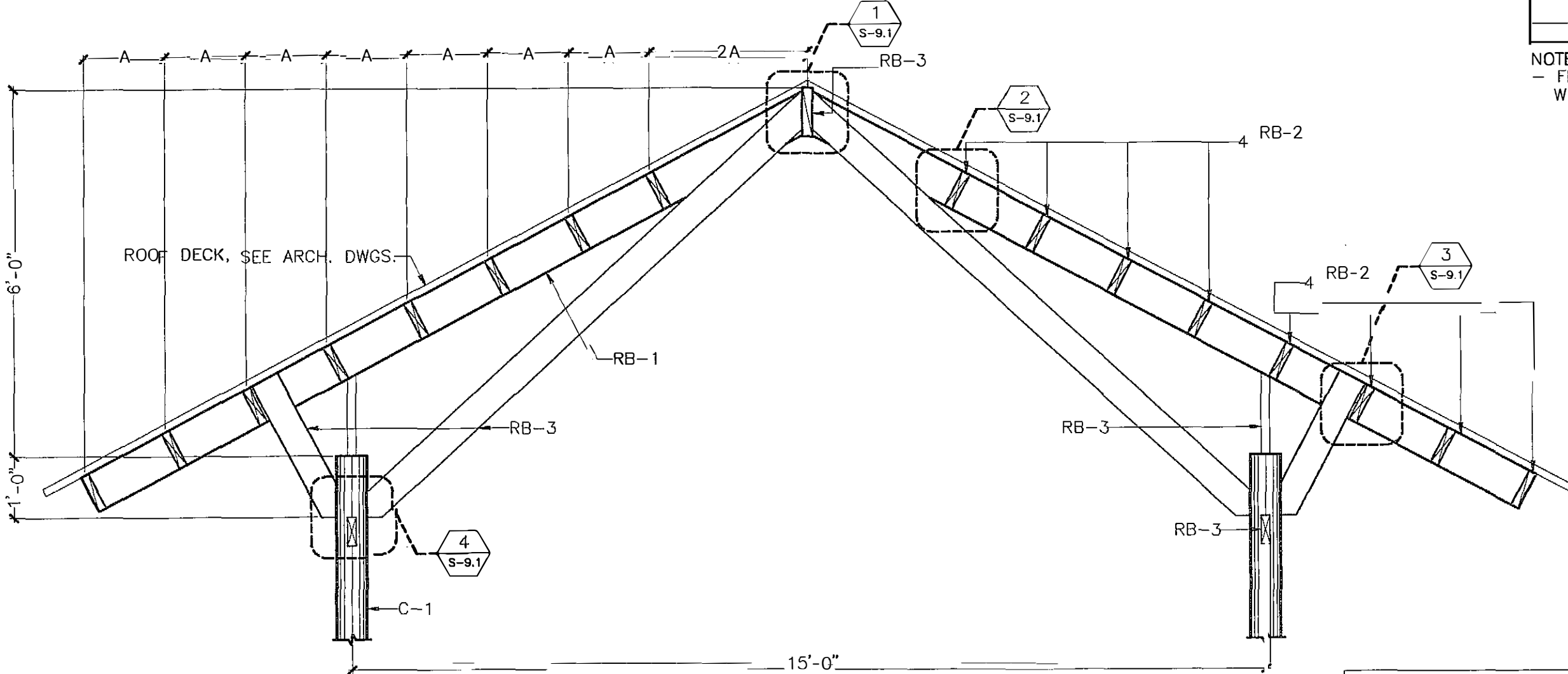
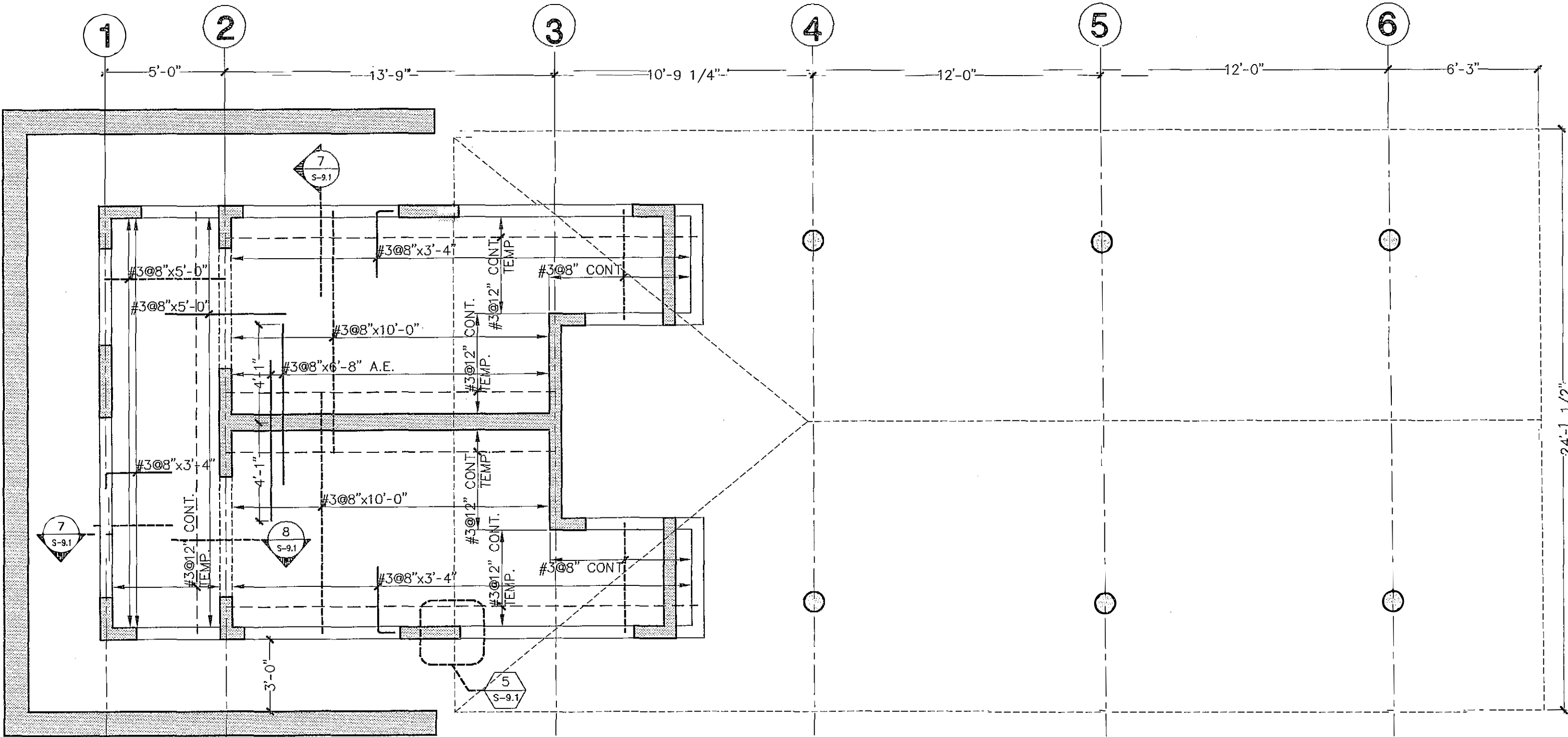
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		P.R. 10	UTUADO ARECIBO	P.R.	1996	151	181



ROOF SECTIONS SCHEDULE

LABEL	SECTION
RB-1	2"x10"
RB-2	2"x8"
RB-3	2"x6"
C-1	10"x8"

NOTE:
- FINAL DIMENSION TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS



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UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

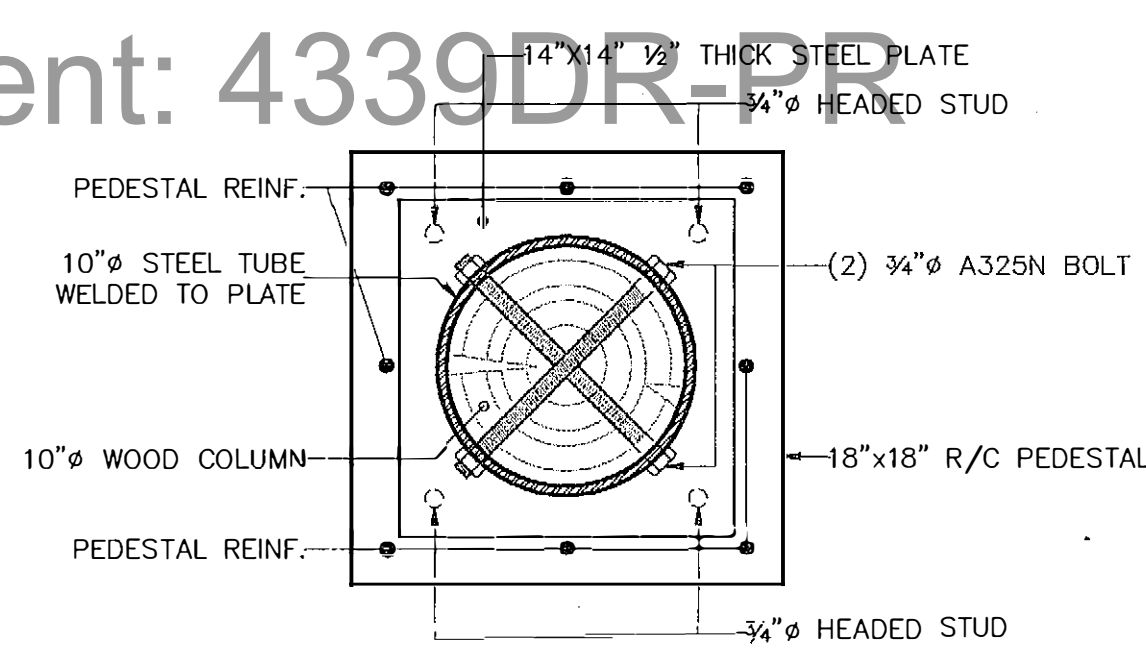
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GAZEBO #3 PLANS
SECTIONS AND DETAILS

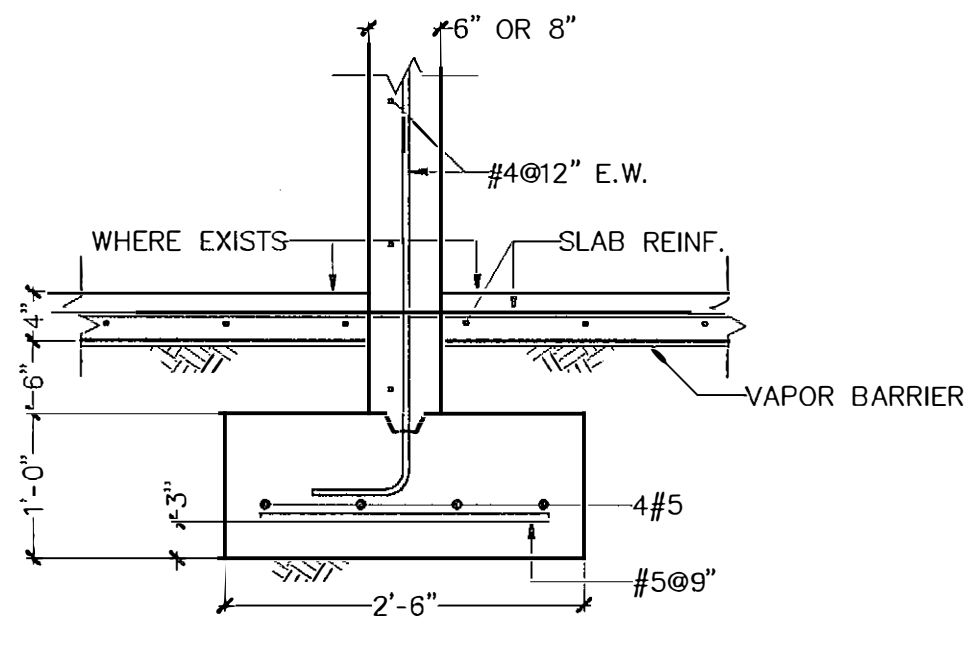
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FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

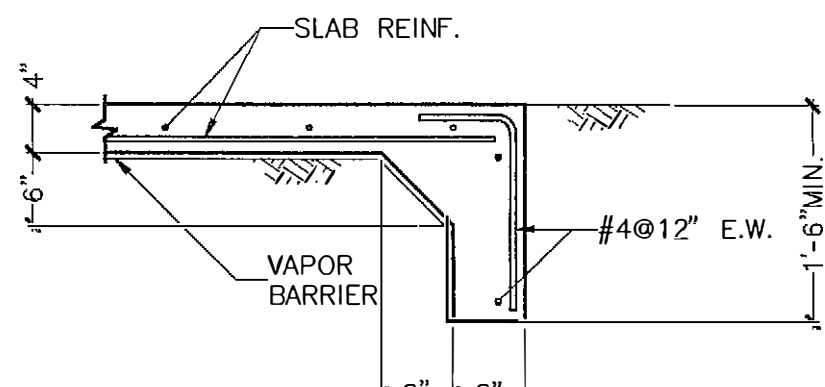
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		P.R. 10	UTUADO ARECIBO	P.R.	1996	152	181



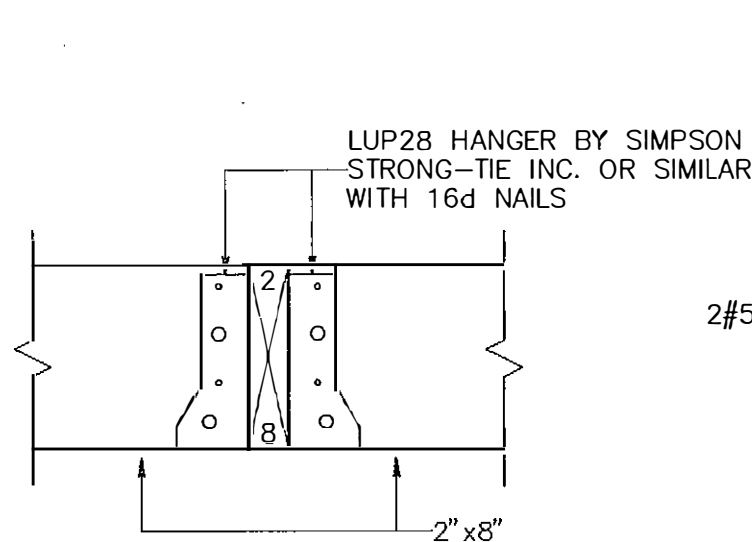
SECTION 1
SCALE: 1 1/2"=1'-0"



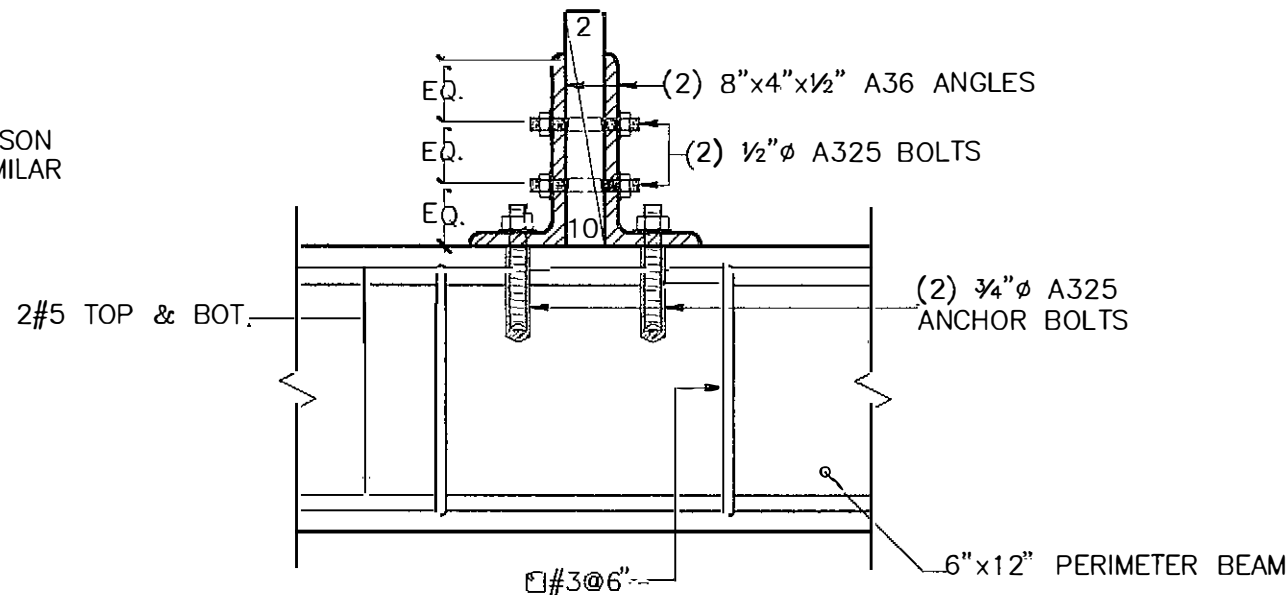
SECTION 2
SCALE: 3/4"=1'-0"



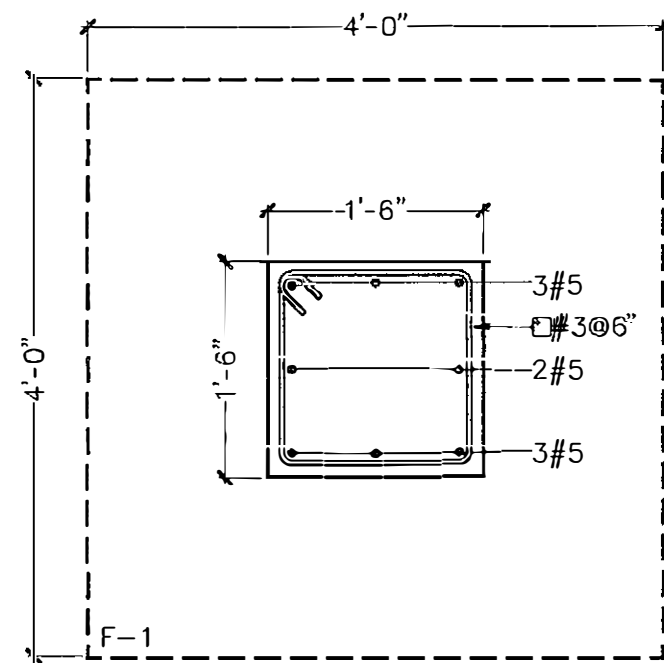
SECTION 6
SCALE: 3/4"=1'-0"



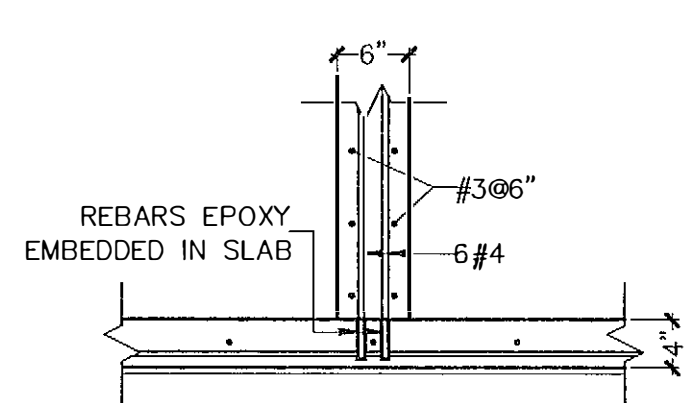
DETAIL 2
SCALE: 1 1/2"=1'-0"



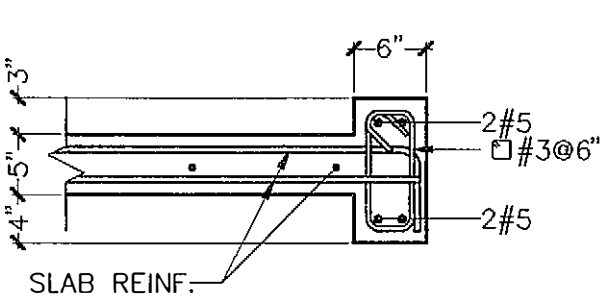
DETAIL 5
SCALE: 1 1/2"=1'-0"



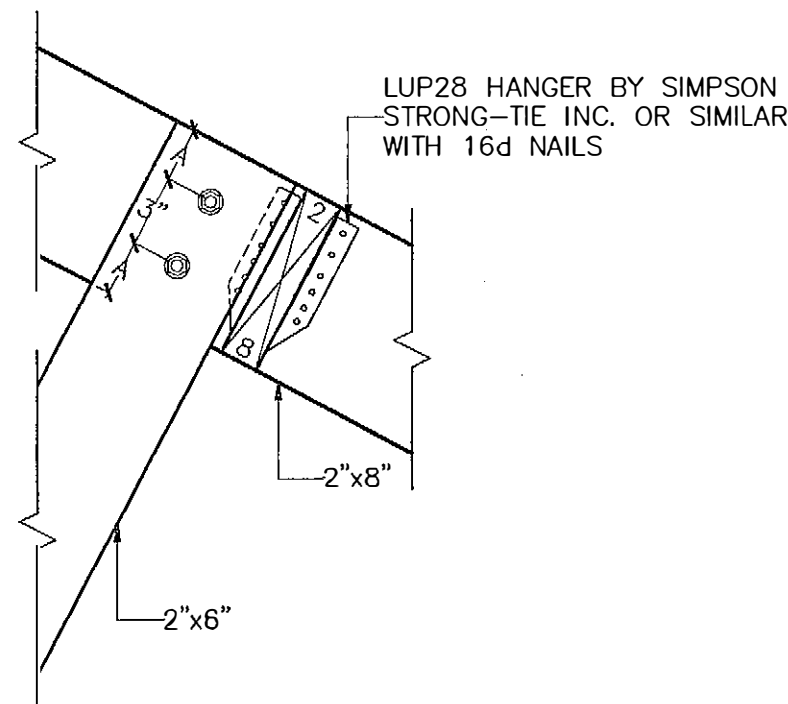
FOOTING DETAIL F-1
SCALE: 3/4"=1'-0"



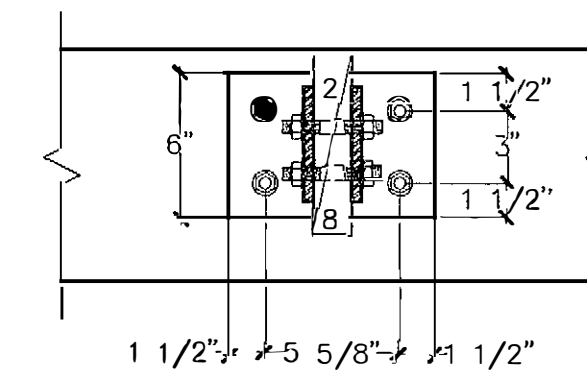
SECTION 3
SCALE: 3/4"=1'-0"



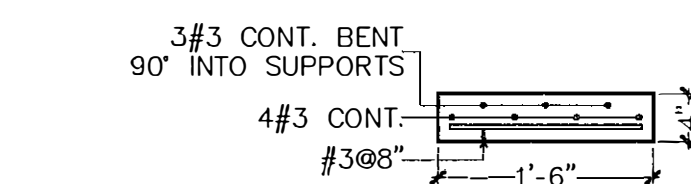
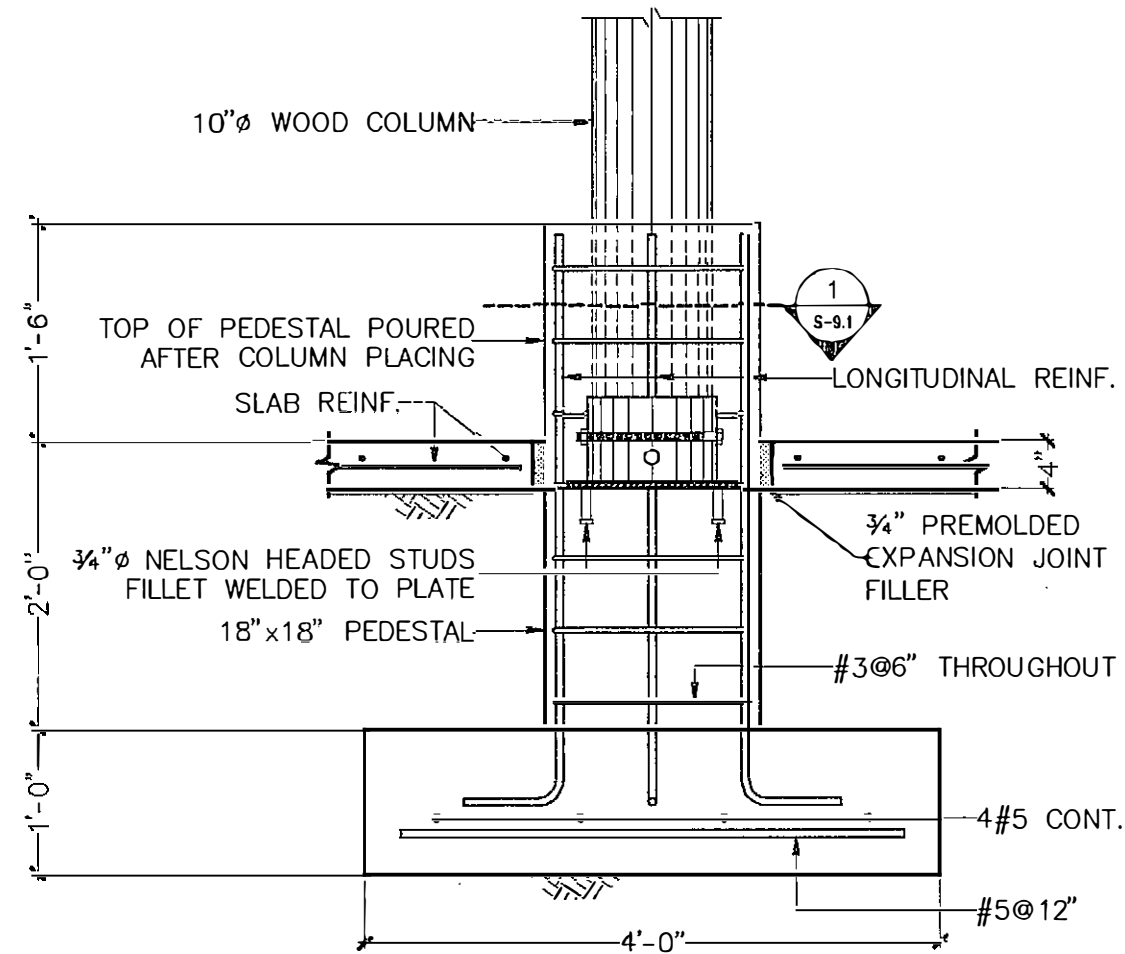
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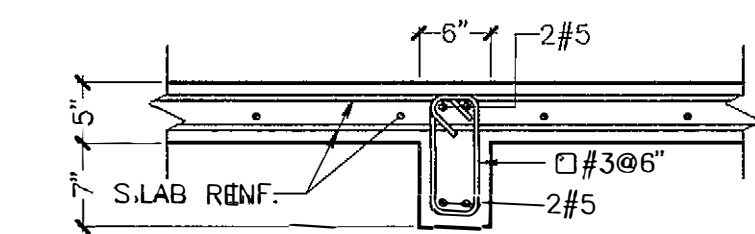
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SCALE: 1 1/2"=1'-0"



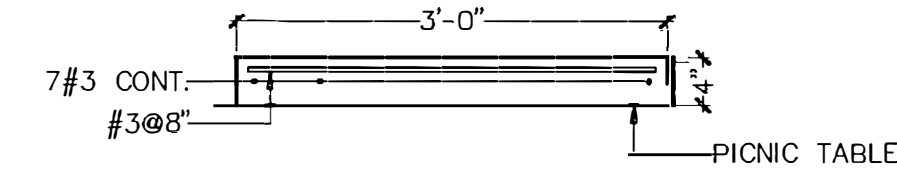
SECTION A
SCALE: 1 1/2"=1'-0"



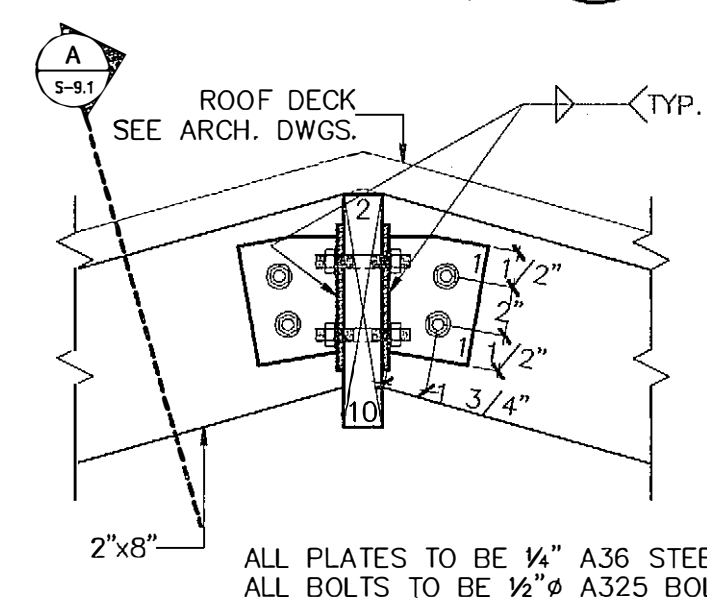
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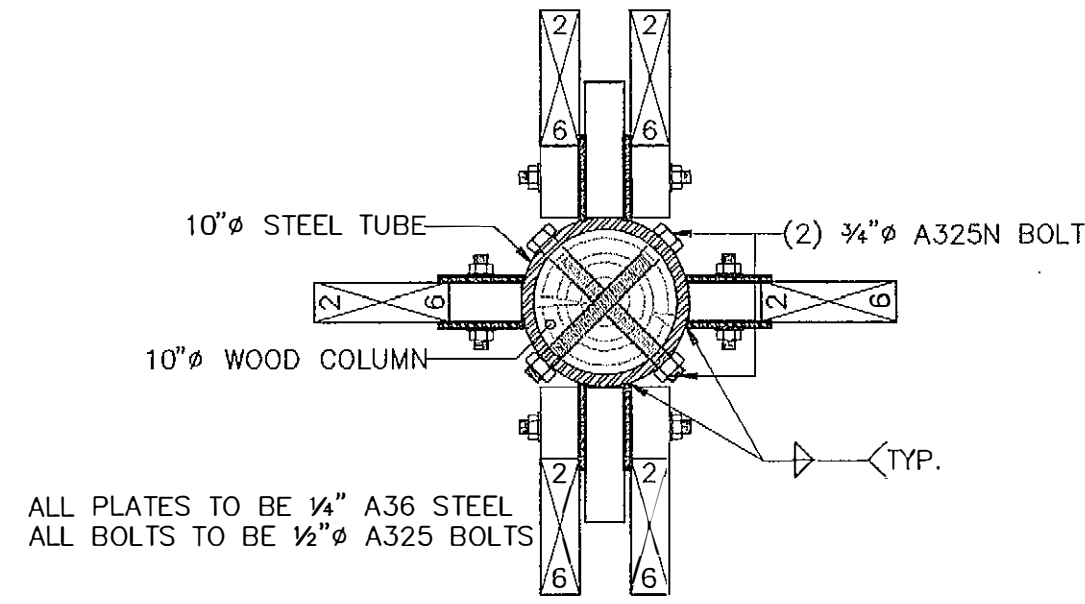
SECTION 8
SCALE: 3/4"=1'-0"



SECTION 5
SCALE: 3/4"=1'-0"



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



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

CARLOS I. GABRÉ & ASSOCIATES
ENGINEERING CONSULTANTS
1767 JESÚS T. PIÑERO AVENUE
CAPARRÁ HEIGHTS, PUERTO RICO, 00920

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

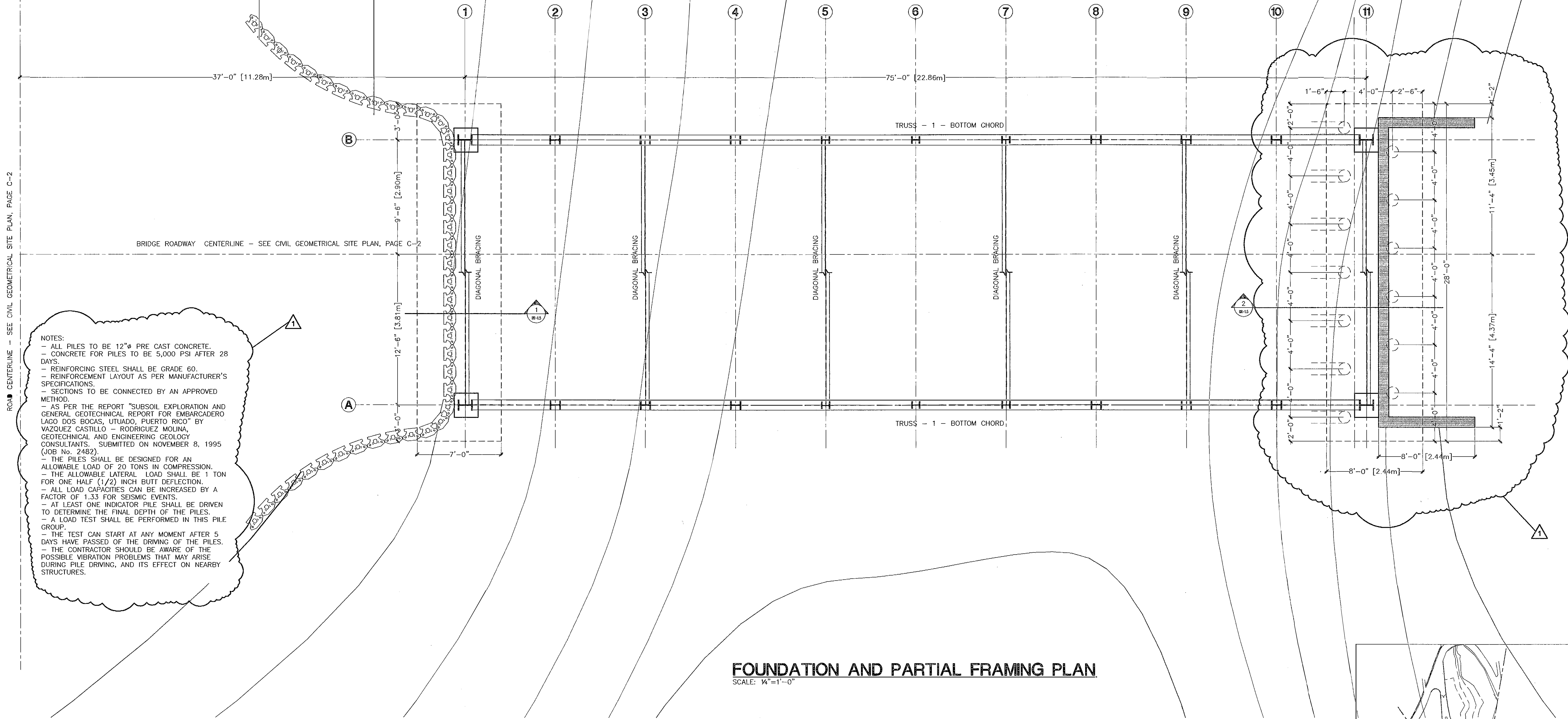
SCALE:
AS SHOWN

GAZEBO #3
SECTIONS AND DETAILS

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FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID PROJECT NO.	H'WAY NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
			P.R. 10	UTUADO ARECIBO	P.R.	1996	153	181

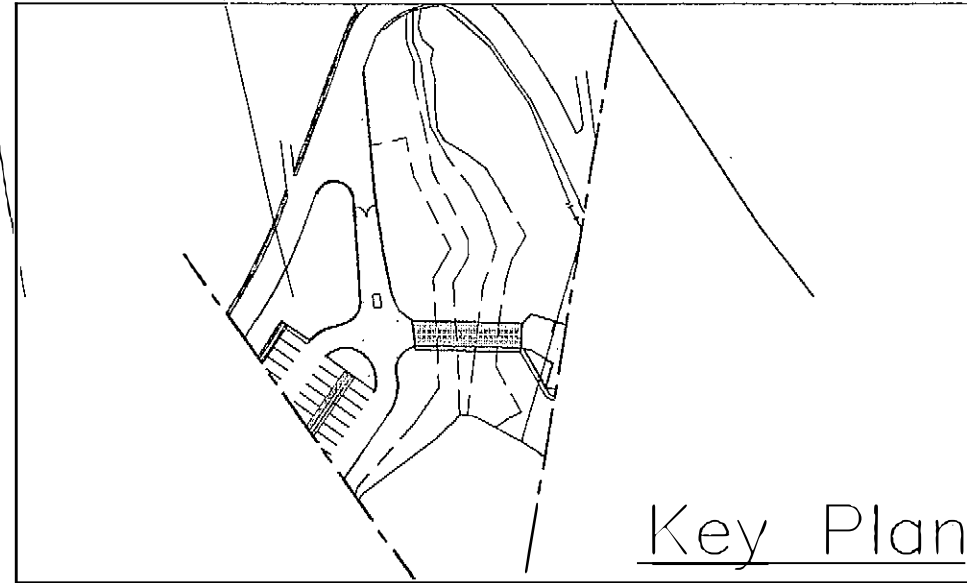


NOTES:
- ALL PILES TO BE 12"Ø PRE CAST CONCRETE.
- CONCRETE FOR PILES TO BE 5,000 PSI AFTER 28 DAYS.
- REINFORCING STEEL SHALL BE GRADE 60.
- REINFORCEMENT LAYOUT AS PER MANUFACTURER'S SPECIFICATIONS.
- SECTIONS TO BE CONNECTED BY AN APPROVED METHOD.
- AS PER THE REPORT "SUBSOIL EXPLORATION AND GENERAL GEOTECHNICAL REPORT FOR EMBARCADERO LAGO DOS BOCAS, UTUADO, PUERTO RICO" BY VAZQUEZ CASTILLO - RODRIGUEZ MOLINA, GEOTECHNICAL AND ENGINEERING GEOLOGY CONSULTANTS. SUBMITTED ON NOVEMBER 8, 1995 (JOB No. 2482).
- THE PILES SHALL BE DESIGNED FOR AN ALLOWABLE LOAD OF 20 TONS IN COMPRESSION.
- THE ALLOWABLE LATERAL LOAD SHALL BE 1 TON FOR ONE HALF (1/2) INCH BUTT DEFLECTION.
- ALL LOAD CAPACITIES CAN BE INCREASED BY A FACTOR OF 1.33 FOR SEISMIC EVENTS.
- AT LEAST ONE INDICATOR PILE SHALL BE DRIVEN TO DETERMINE THE FINAL DEPTH OF THE PILES.
- A LOAD TEST SHALL BE PERFORMED IN THIS PILE GROUP.
- THE TEST CAN START AT ANY MOMENT AFTER 5 DAYS HAVE PASSED OF THE DRIVING OF THE PILES.
- THE CONTRACTOR SHOULD BE AWARE OF THE POSSIBLE VIBRATION PROBLEMS THAT MAY ARISE DURING PILE DRIVING, AND ITS EFFECT ON NEARBY STRUCTURES.

FOUNDATION AND PARTIAL FRAMING PLAN

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

CARLOS I. CABRÉ & ASSOCIATES
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1767 JESÚS T. PIÑERO AVENUE
CAPARRA HEIGHTS, PUERTO RICO, 00920



Key Plan

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS
7/2/96	ADDENDUM NUMBER 1

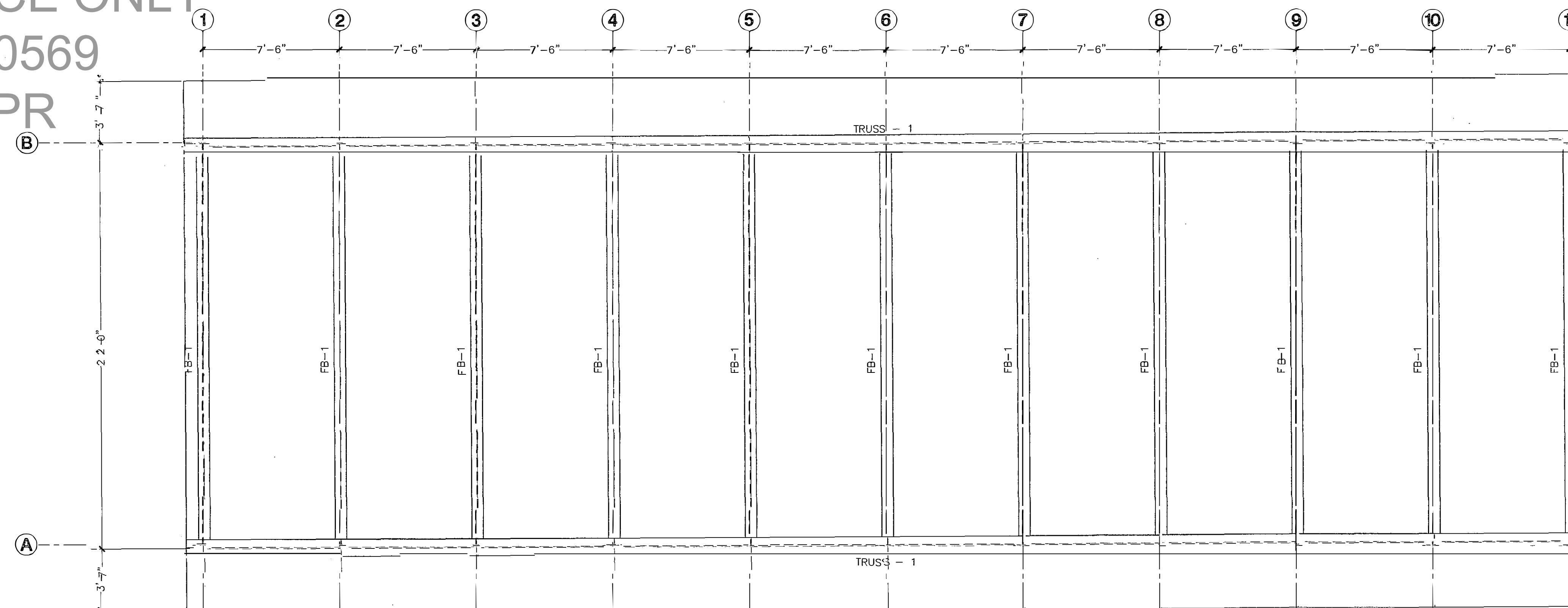
SCALE:
AS SHOWN

BRIDGE FOUNDATION PLAN

S
1.0

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	154	181

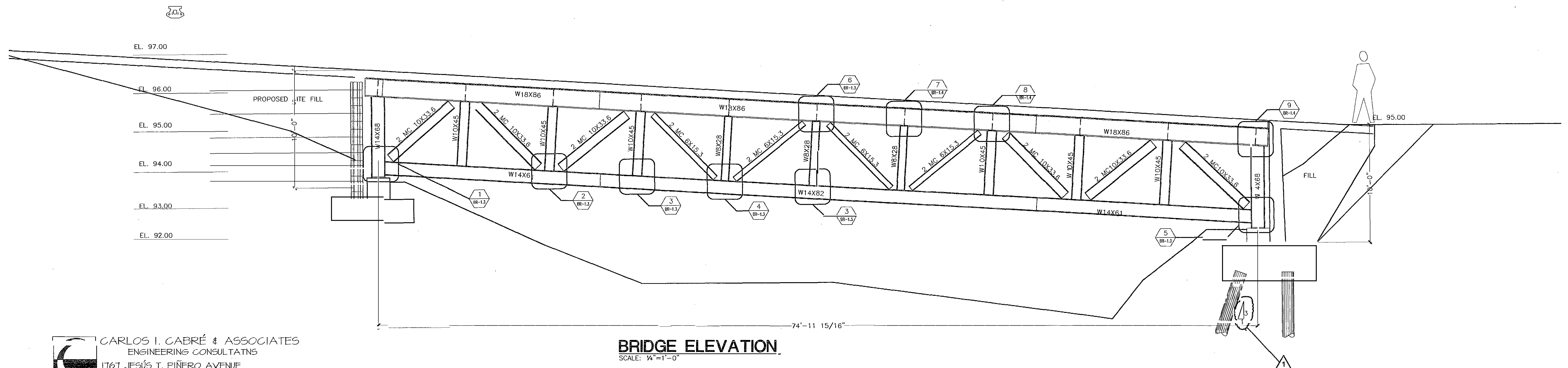


- LEGEND:
- MOMENT CONNECTION
 - SHEAR CONNECTION
 - STEEL DECK OUTLINE
 - STEEL GIRDER
 - STEEL BEAM
 - STEEL COLUMN
 - LEADER LINES FOR NOTES
 - O.C. ON CENTER
 - MAX. MAXIMUM
 - MIN. MINIMUM
 - FB-# FLOOR BEAM NUMBER
 - FG-# FLOOR GIRDER NUMBER
 - DVB-# DRY VIT BEAM NUMBER
 - C-# COLUMN NUMBER
 - CONT. CONTINUOUS
 - CL. CLEAR
 - E.S. EQUALLY SPACED
 - DETAIL IDENTIFICATION
 - SECTION IDENTIFICATION
 - CONCRETE BEAM
 - R/C WALL OR COLUMN

- NOTES:
- ALL STEEL BEAMS AND COLUMNS SHALL BE A572 GRADE 50
 - STEEL DECK SHALL BE 22Ga. 1.5" COMPOSITE FLOOR DECK
 - CONCRETE DECK SHALL BE 3,500 psi, WITH w/c=0.55
 - THE CONCRETE MIX FOR THE DECK SHALL CONTAIN 3/4" MICRO-FIBER BY GRACE Co.

BRIDGE FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"

MARKED	OPTION 1	STUD SIZE	STUD SPACING	TOTAL
FB-1	W18X50	3/4" x 4-1/2"	12@12" O.C. BOTH ENDS, 14@6" O.C. MIDDLE	38
FB-2				
FB-3				
FB-4				



BRIDGE ELEVATION
SCALE: 1/4"=1'-0"

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1767 JESÚS T. PIÑERO AVENUE
CAPARRA HEIGHTS, PUERTO RICO, 00920

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE
7/2/96

REVISIONS
ADDENDUM NUMBER 1

SCALE:
AS SHOWN

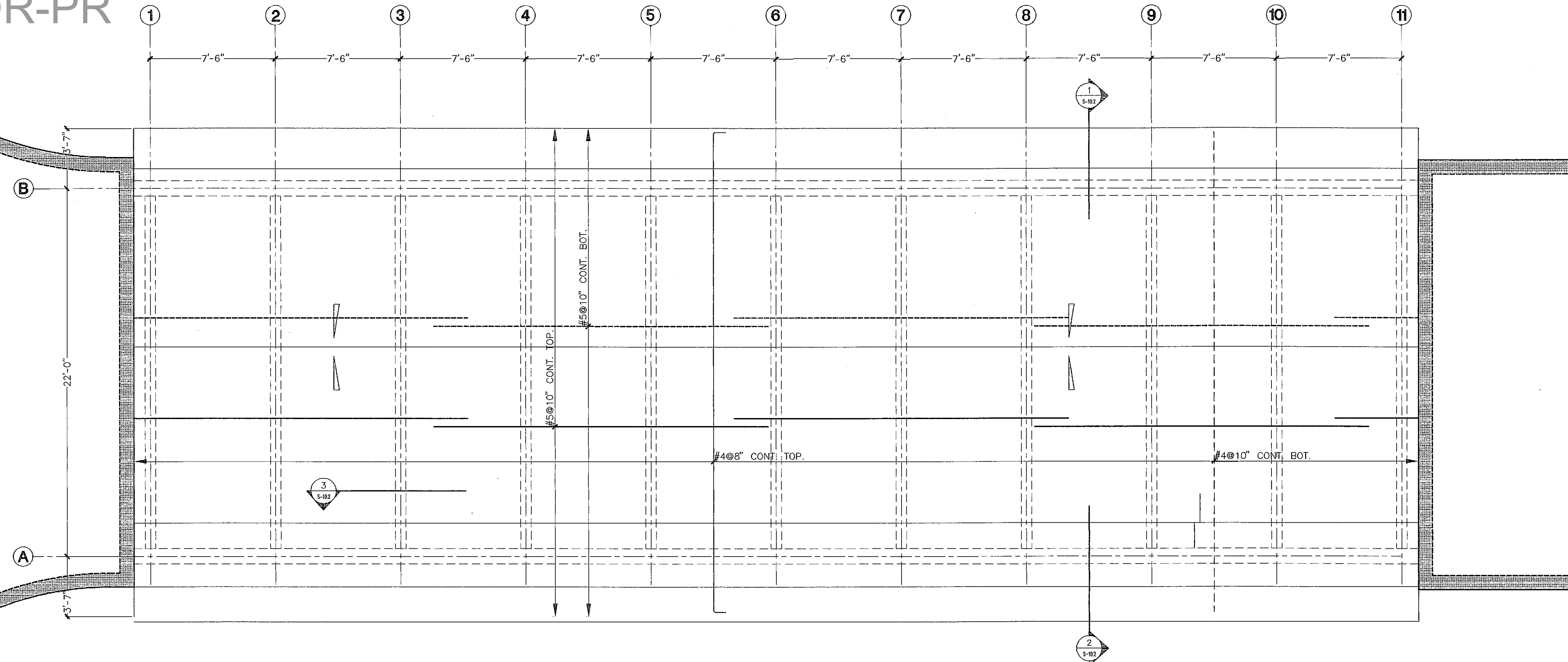
BRIDGE FRAMING PLAN
AND ELEVATION

S

11

FOR REFERENCE ONLY
PW 8361, DI-220569
Event: 4339DR-PR

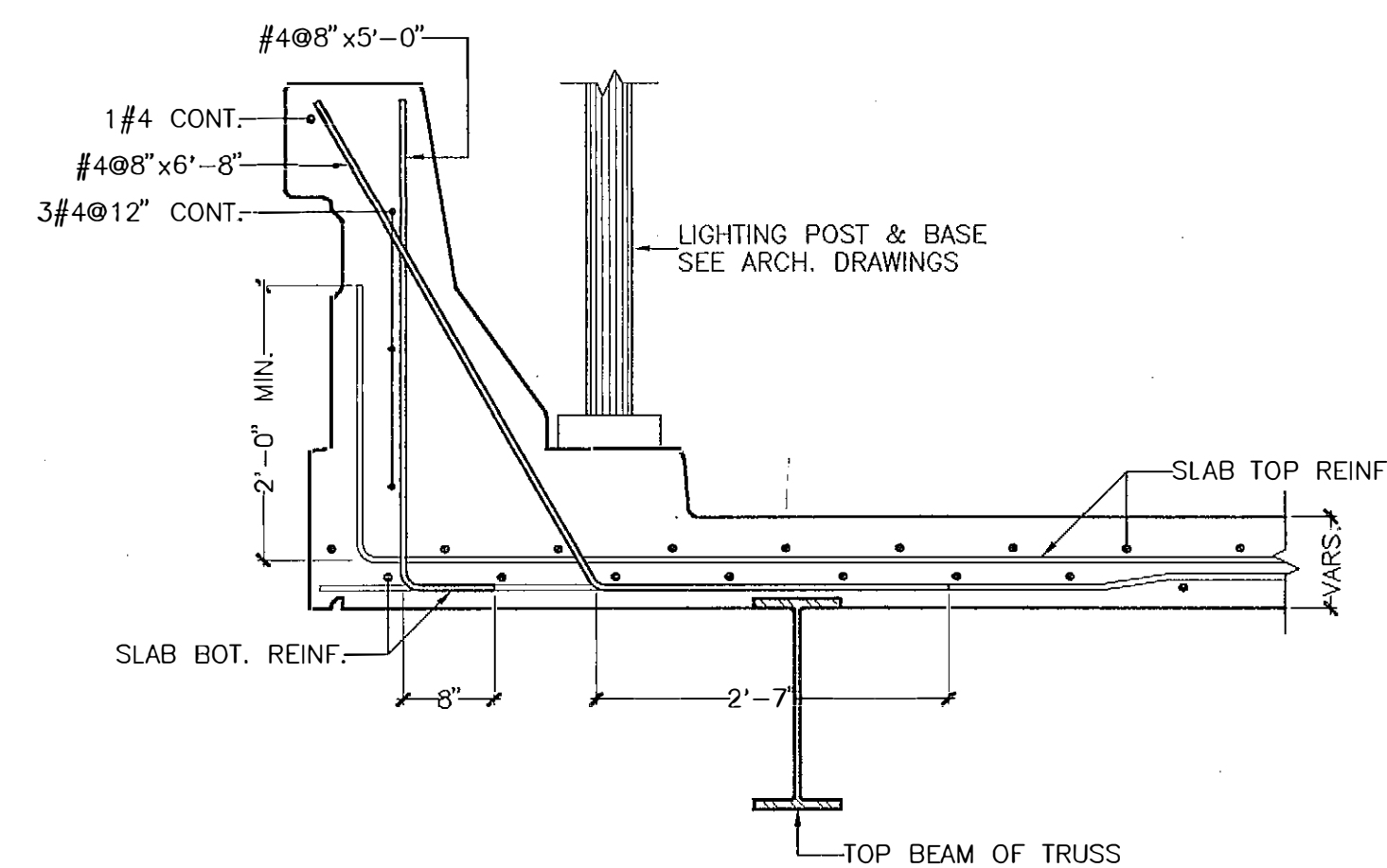
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		P.R. 10	UTUADO ARECIBO	P.R.	1996	155	181



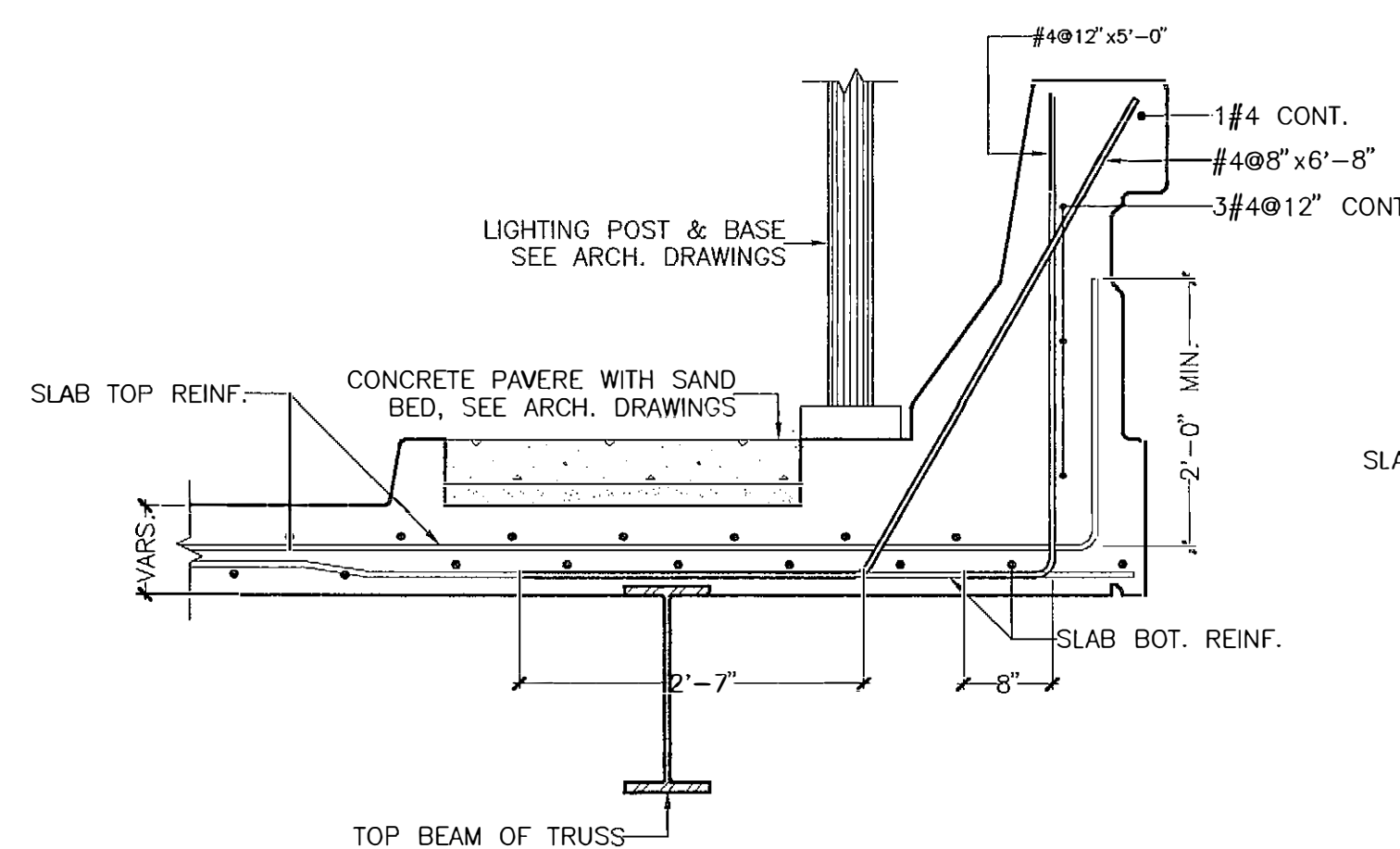
BRIDGE STRUCTURAL SLAB PLAN
SCALE: 3/4"=1'-0"

LEGEND:	
-----	MAIN BOTTOM REINFORCEMENT
-----	MAIN TOP REINFORCEMENT
-----	DISTRIBUTION BOTTOM REINFORCEMENT
-----	DISTRIBUTION TOP REINFORCEMENT
A.E.	ALTERNATE ENDS
O.C.	ON CENTER
MAX.	MAXIMUM
MIN.	MINIMUM
F-#	FOOTING NUMBER
C-#	COLUMN NUMBER
t-#	SLAB THICKNESS
TYP.	TYPICAL
CONT.	CONTINUOUS
CL.	CLEAR
B.W.	BOTH WAYS
E.W.	EACH WAY
E.F.	EACH FACE
E.S.	EQUALLY SPACED
R/C	REINFORCED CONCRETE
TOP	TOP REINFORCEMENT
BOT	BOTTOM
TEMP.	TEMPERATURE REINFORCEMENT
-----	CONCRETE BEAM
-----	R/C WALL OR COLUMN
# S-#	DETAIL IDENTIFICATION
# S-#	SECTION IDENTIFICATION

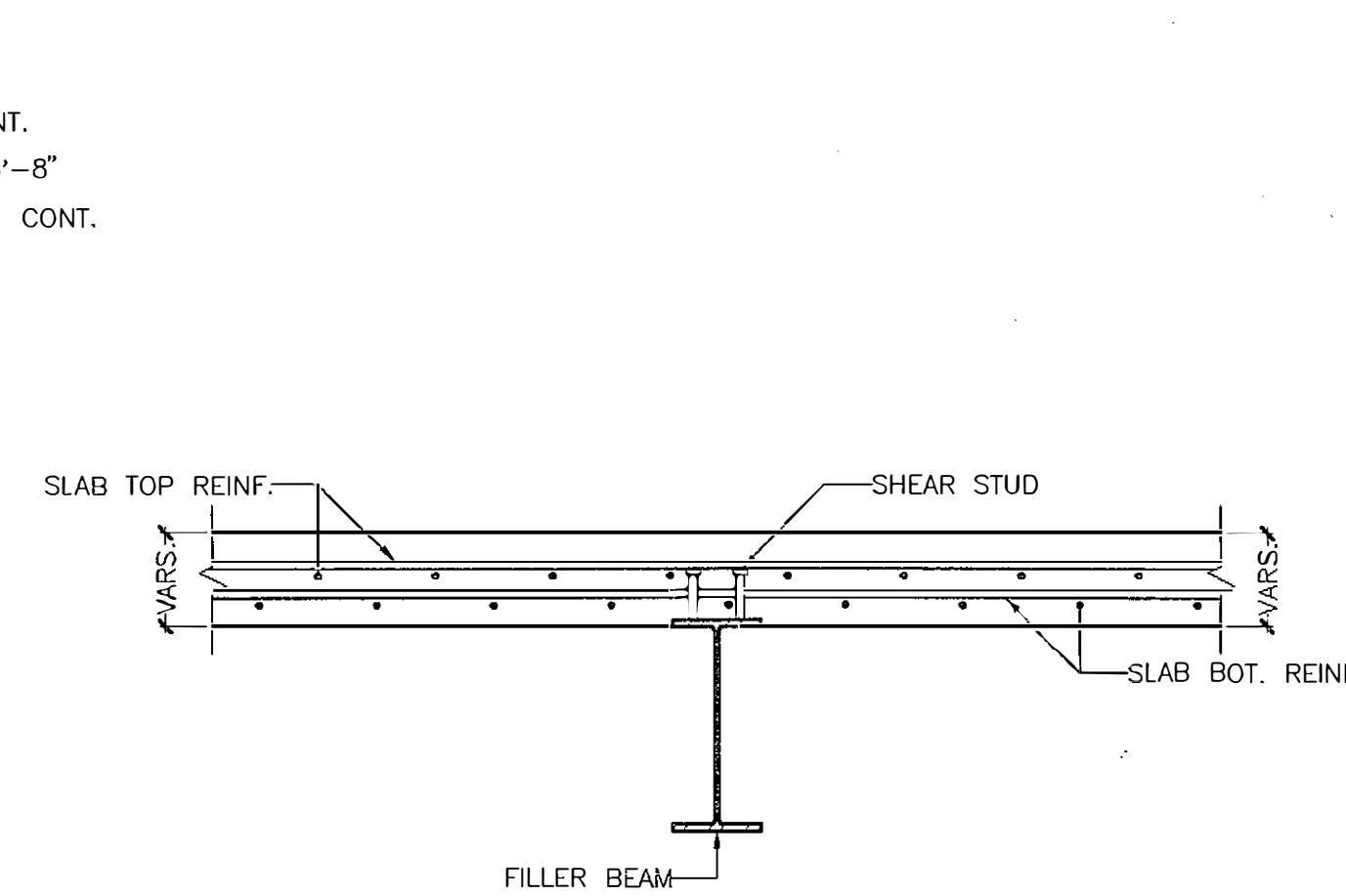
NOTES:
- CONCRETE DECK SHALL BE 3,500 psi, WITH w/c=0.55
- THE CONCRETE MIX FOR THE DECK SHALL CONTAIN 3/4" MICRO-FIBER BY GRACE Co.



SECTION 1
SCALE: 3/4"=1'-0"
S-10.2



SECTION 2
SCALE: 3/4"=1'-0"
S-10.2



SECTION 3
SCALE: 3/4"=1'-0"
S-10.2

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CAPARRA HEIGHTS, PUERTO RICO, 00920

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UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

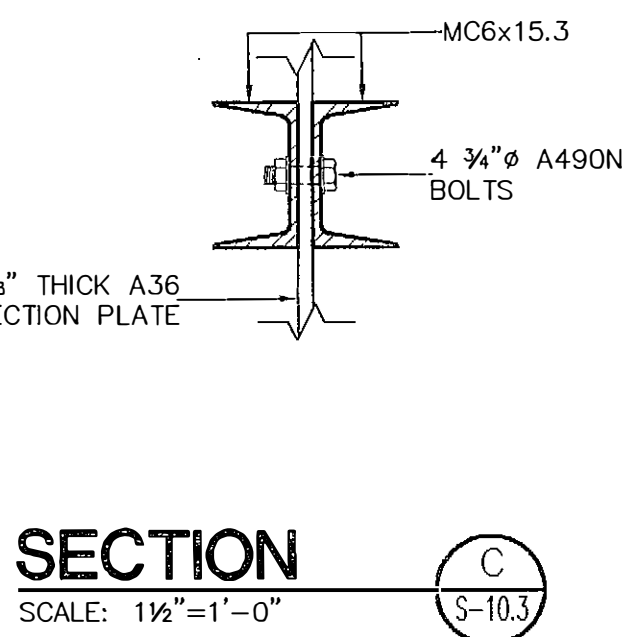
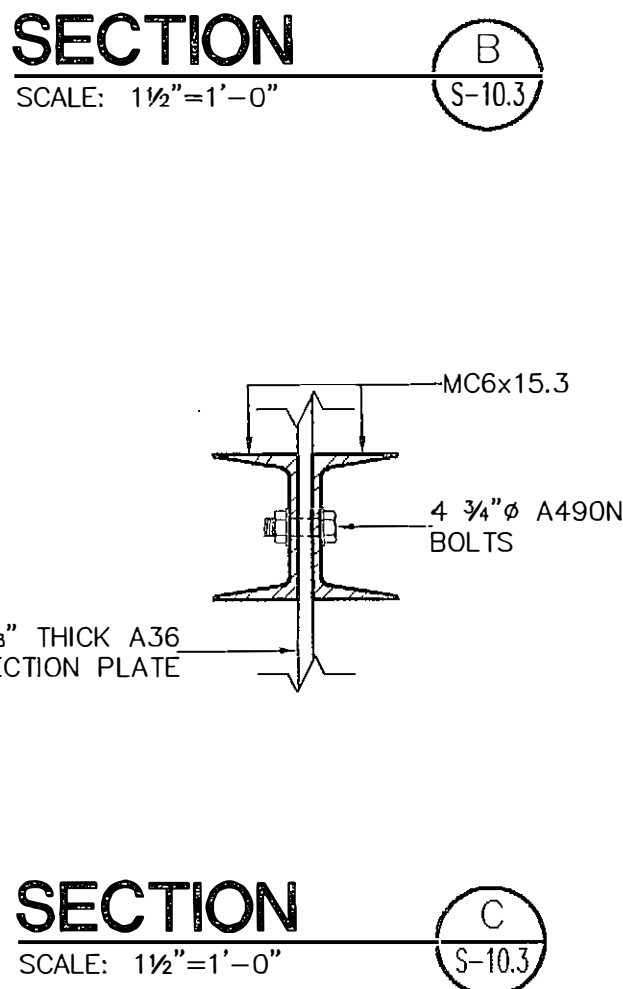
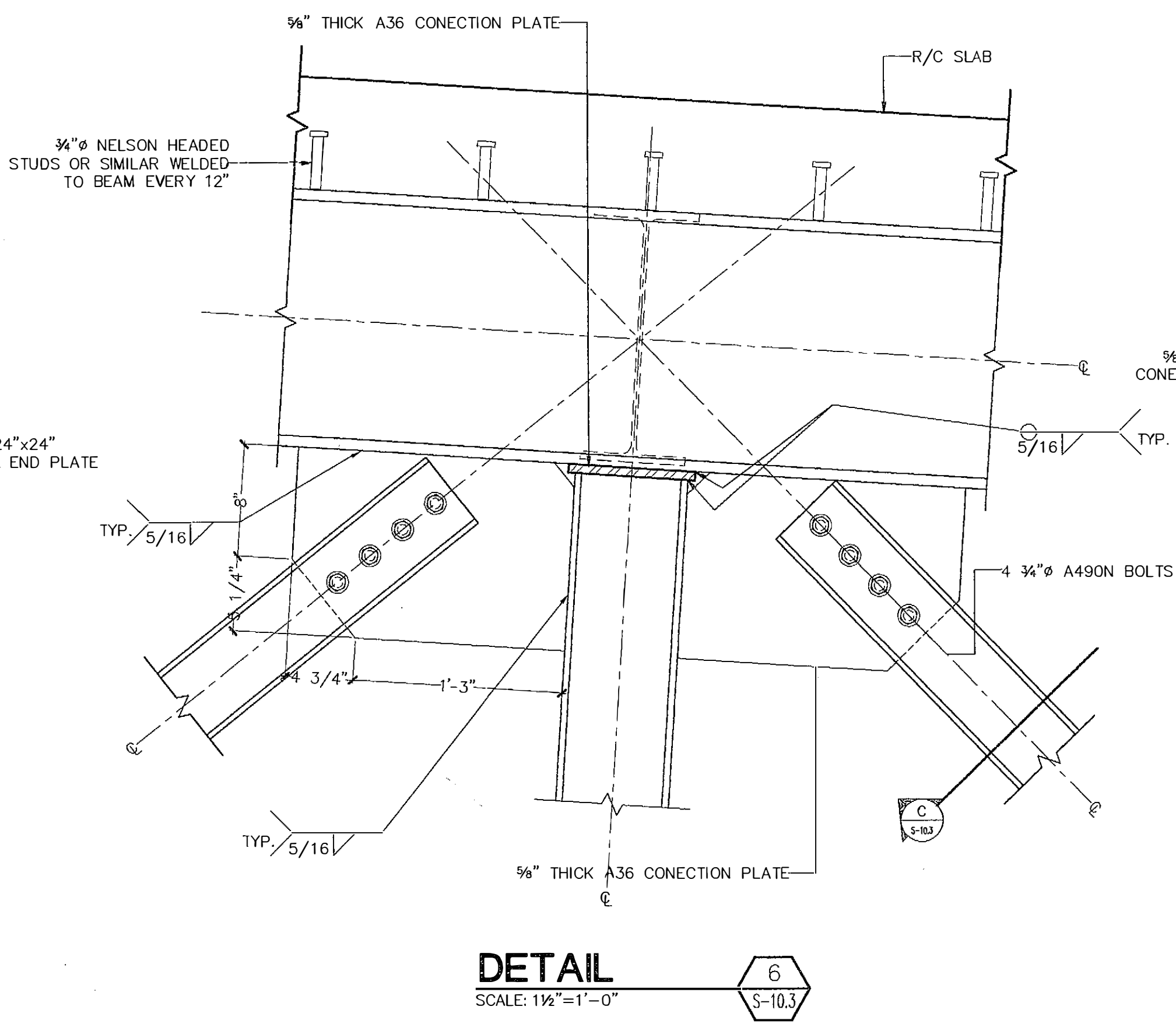
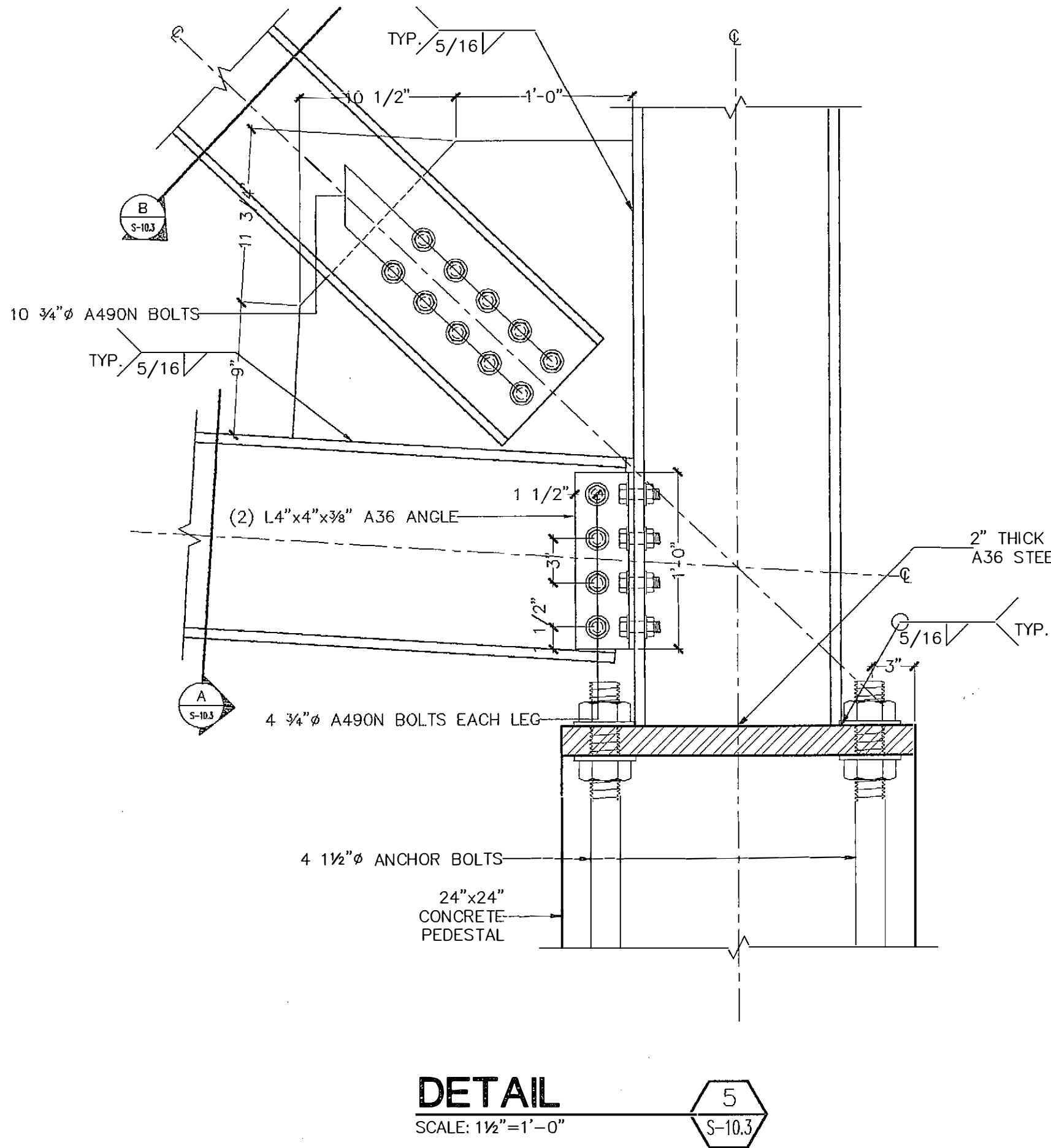
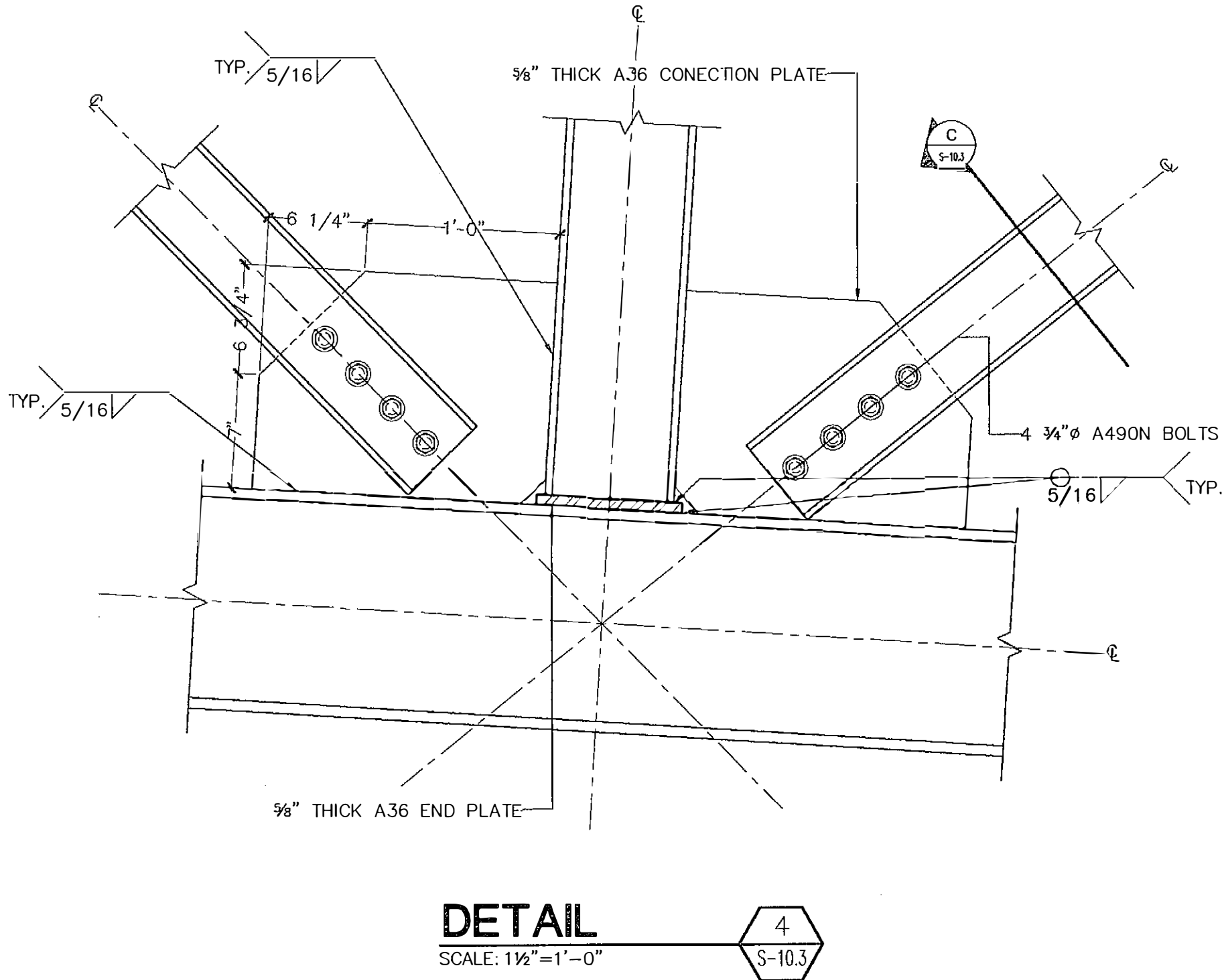
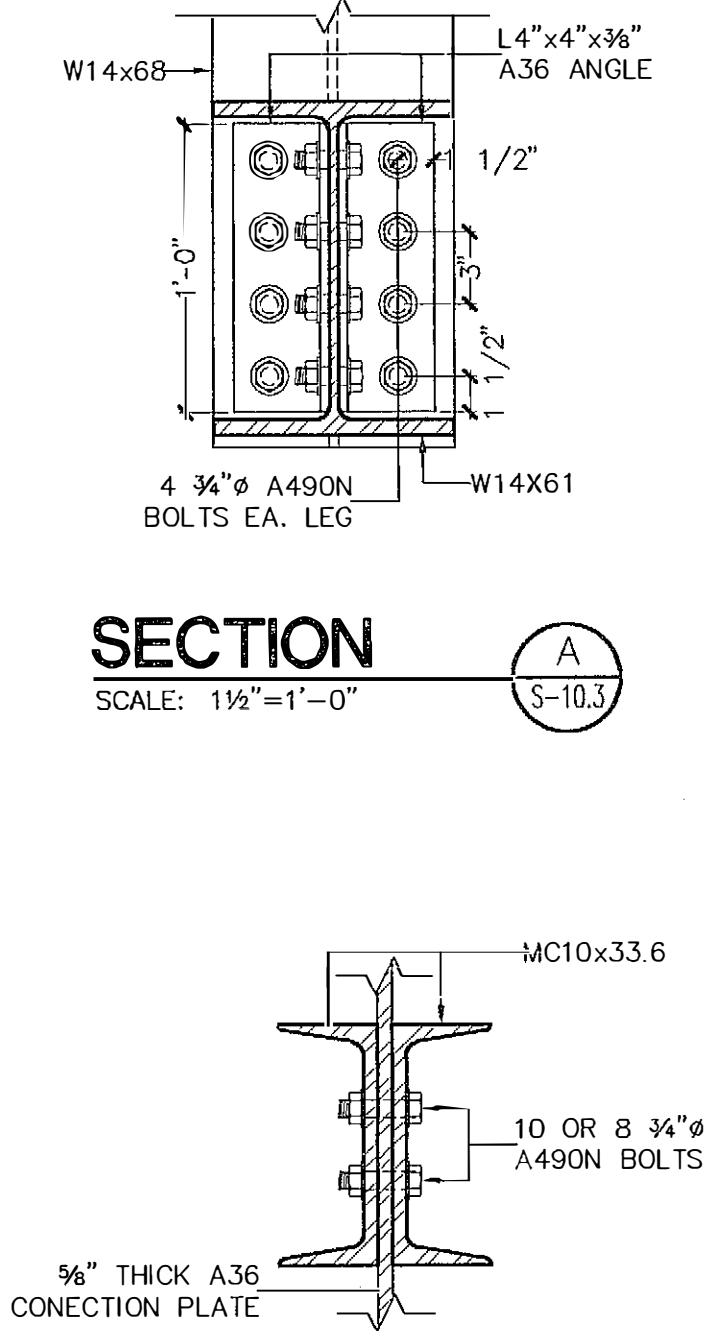
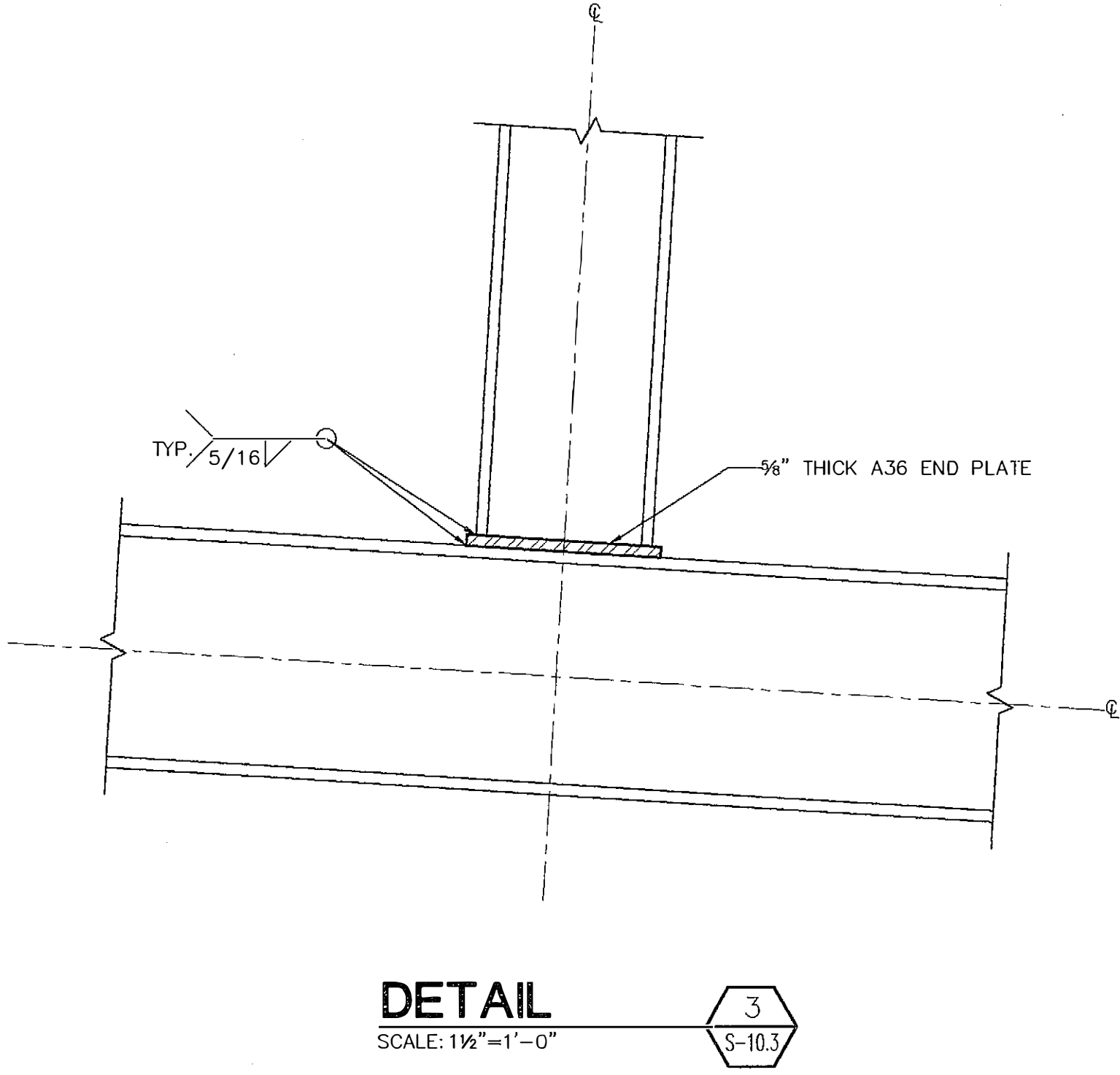
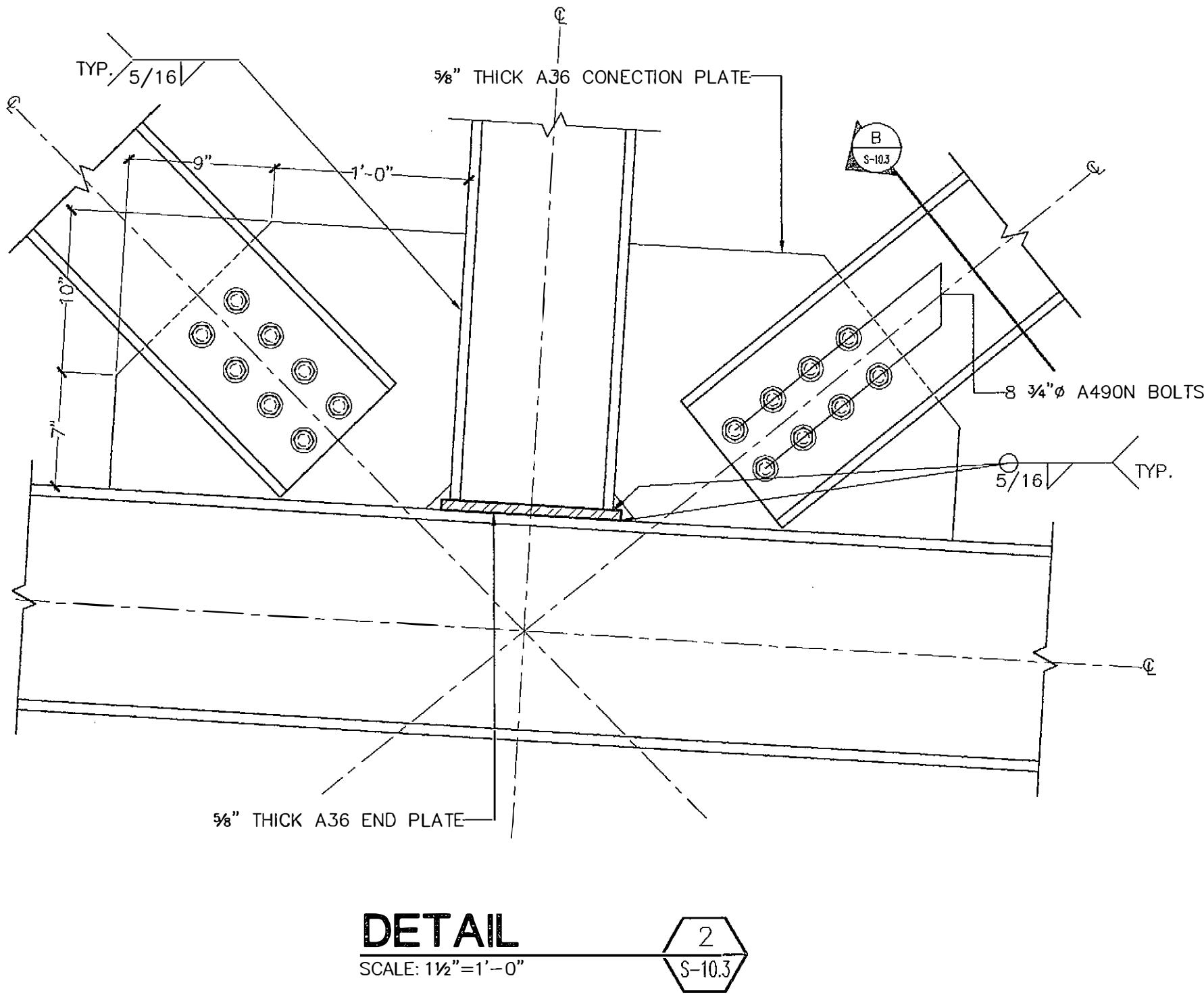
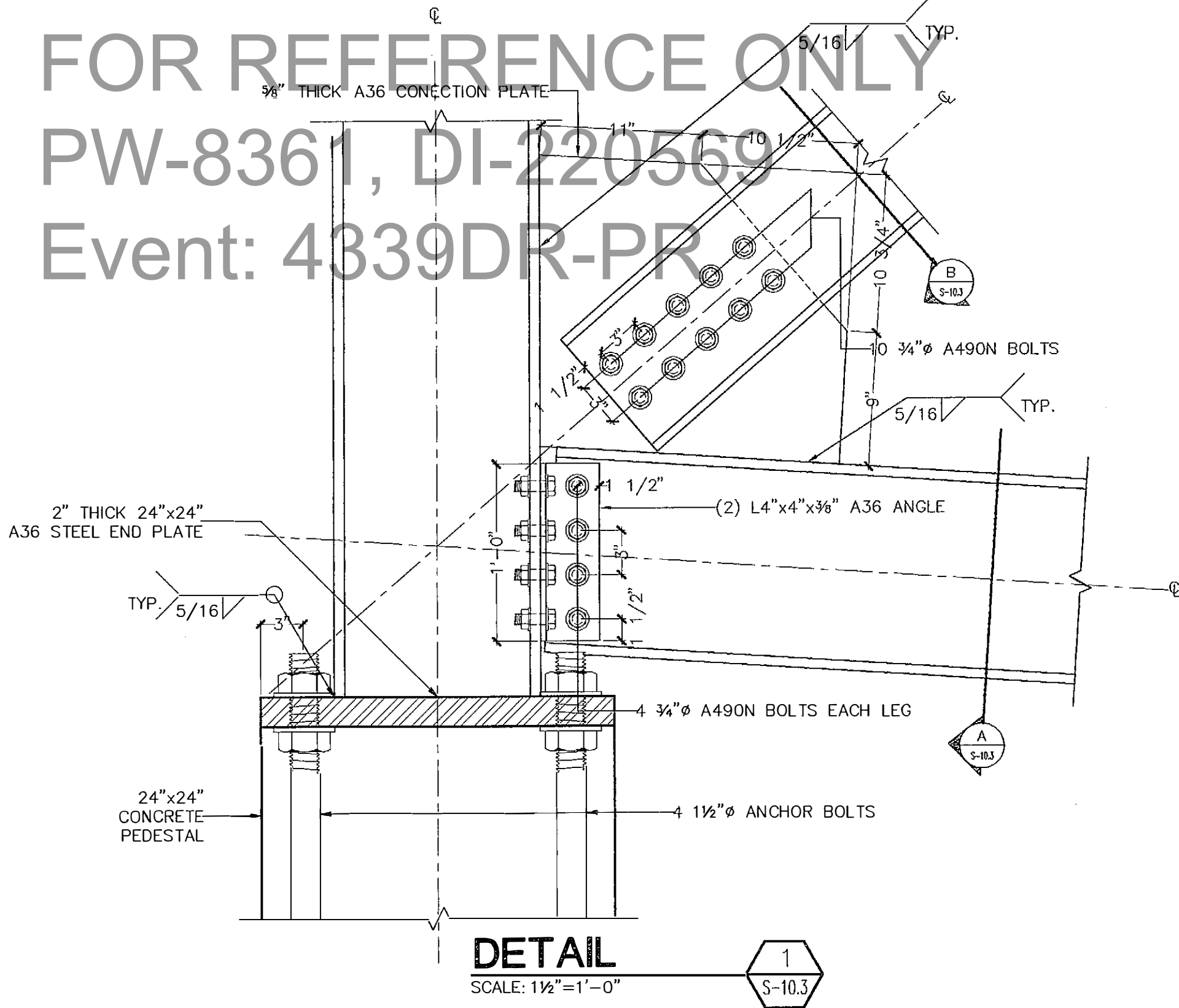
SCALE:
AS SHOWN.

BRIDGE PLANS
SECTIONS AND DETAILS

S
10.2

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	150	181

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



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UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE:
AS SHOWN

BRIDGE
SECTIONS AND DETAILS

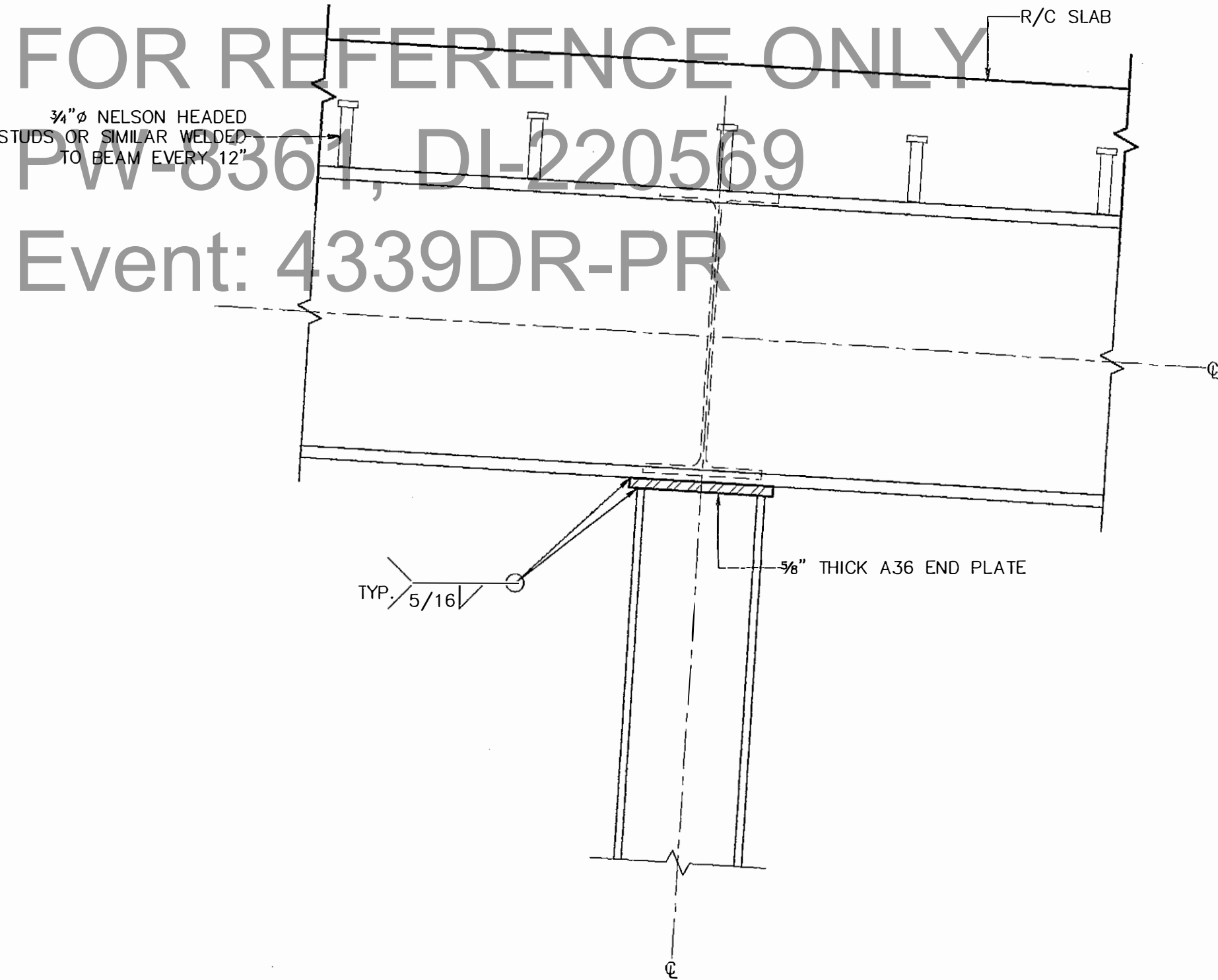
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10.3

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	157	181

FOR REFERENCE ONLY

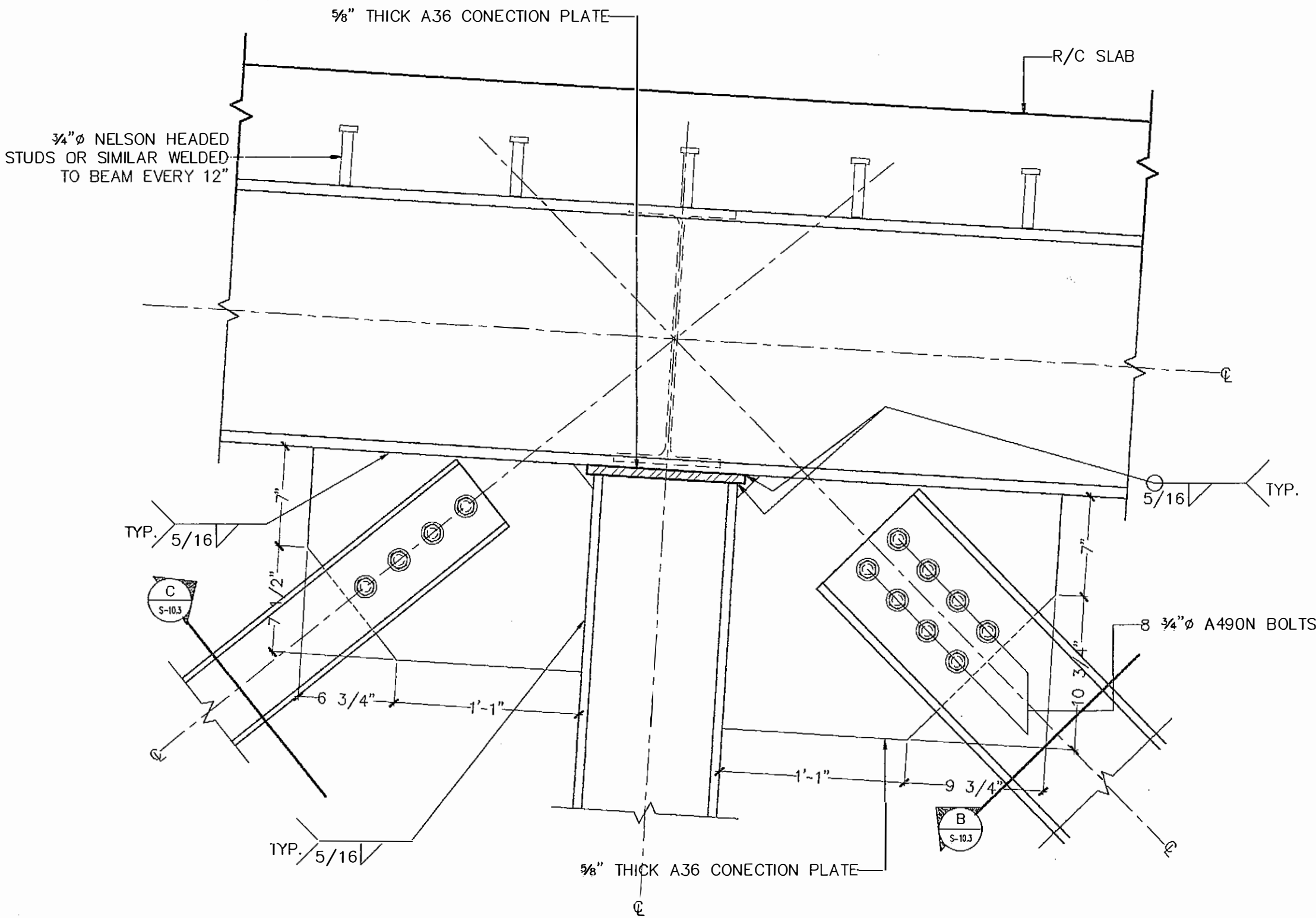
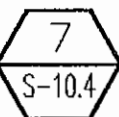
PW-6361, DI-220569

Event: 4339DR-PR



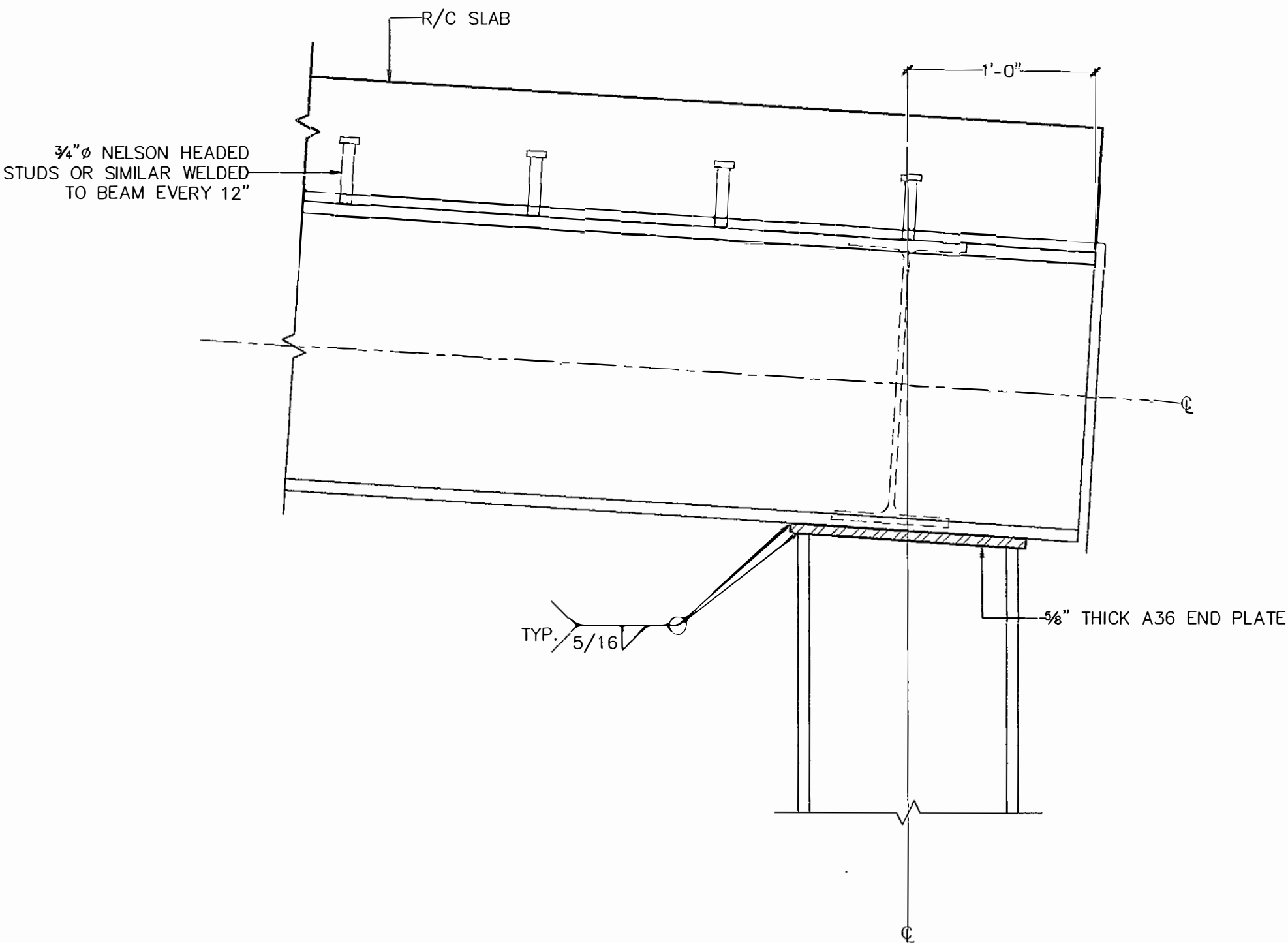
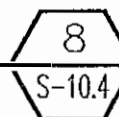
DETAIL

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



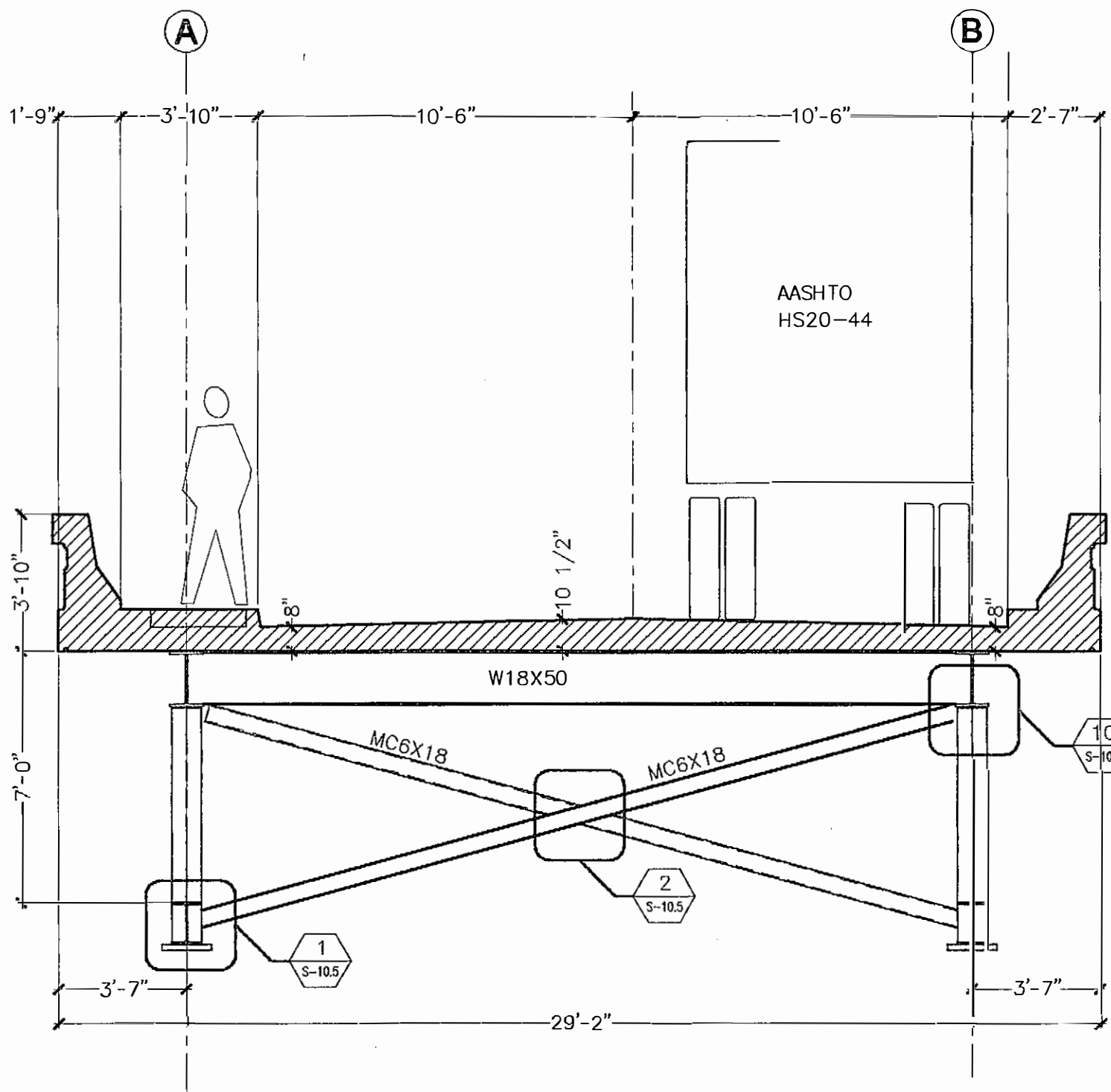
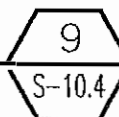
DETAIL

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



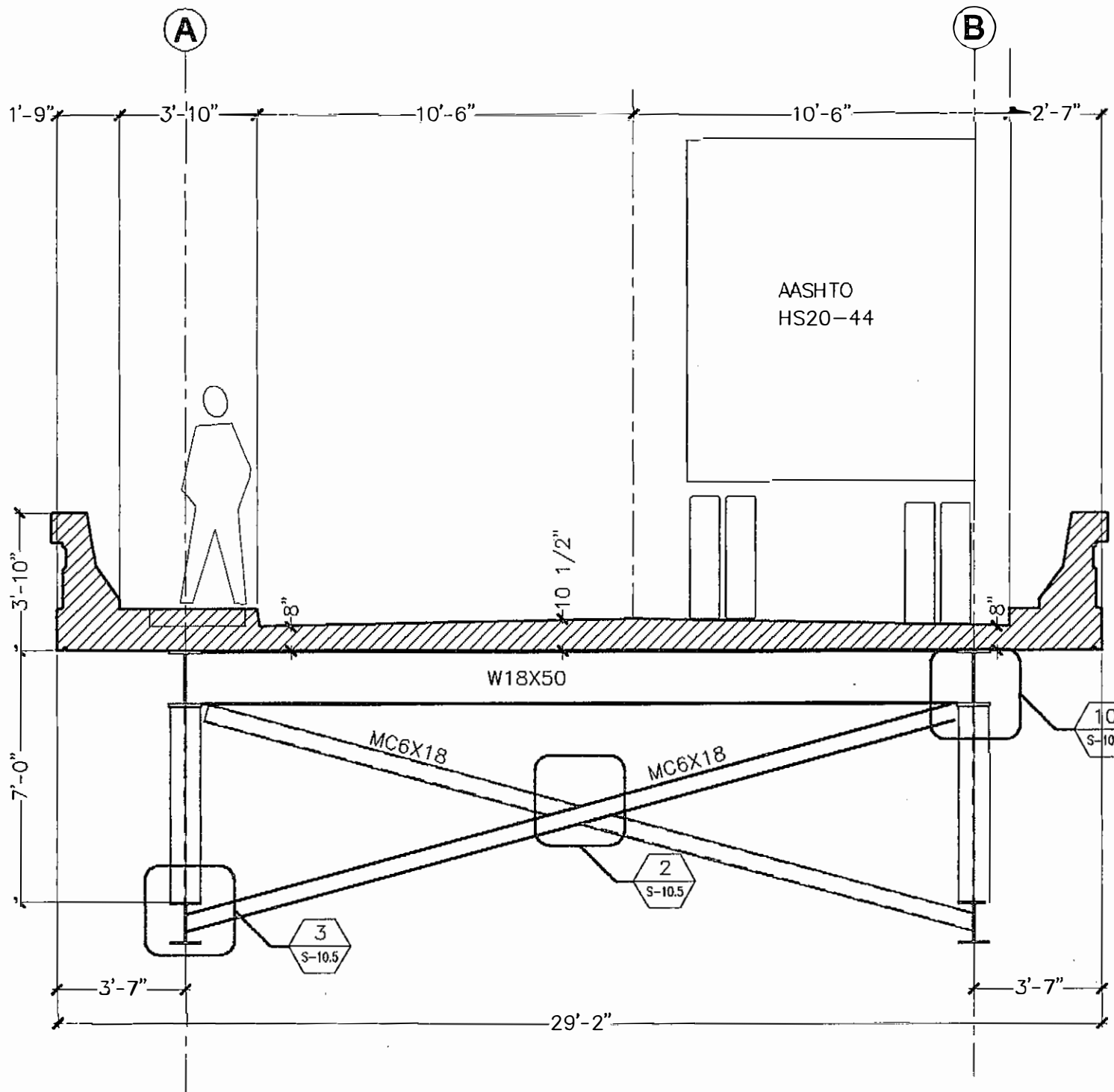
DETAIL

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



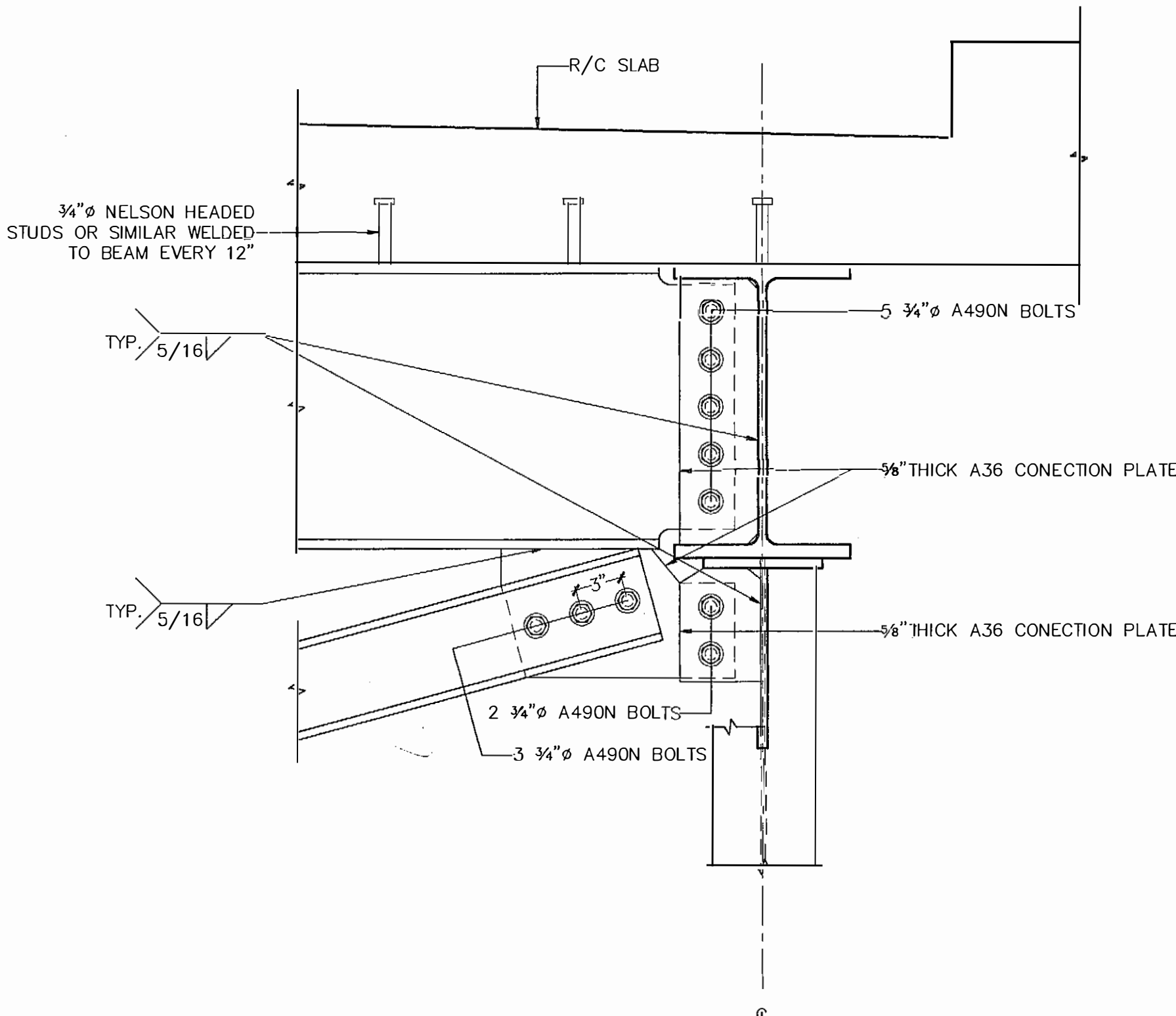
BRIDGE SECTION - END CONDITION

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



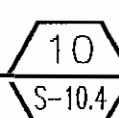
BRIDGE SECTION

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



DETAIL

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



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DATE

REVISIONS

SCALE:
AS SHOWN

BRIDGE
SECTIONS AND DETAILS

S

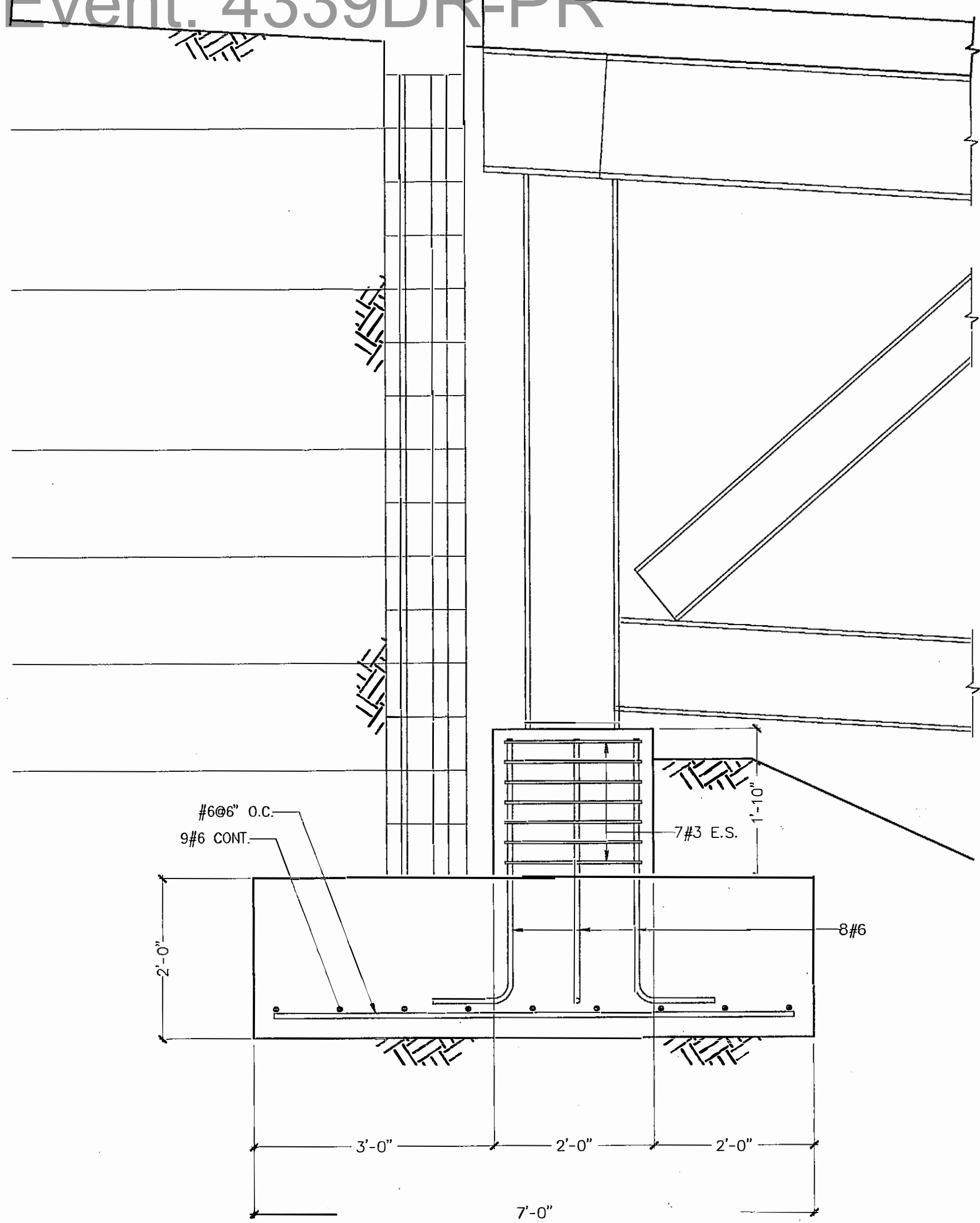
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6: V95-PR01\LDOSBOCAS-ENG-DRWG-DET Non Dec 18 18:25:05 1995 PLOTTED ON C1034'S DESIGNJET 600

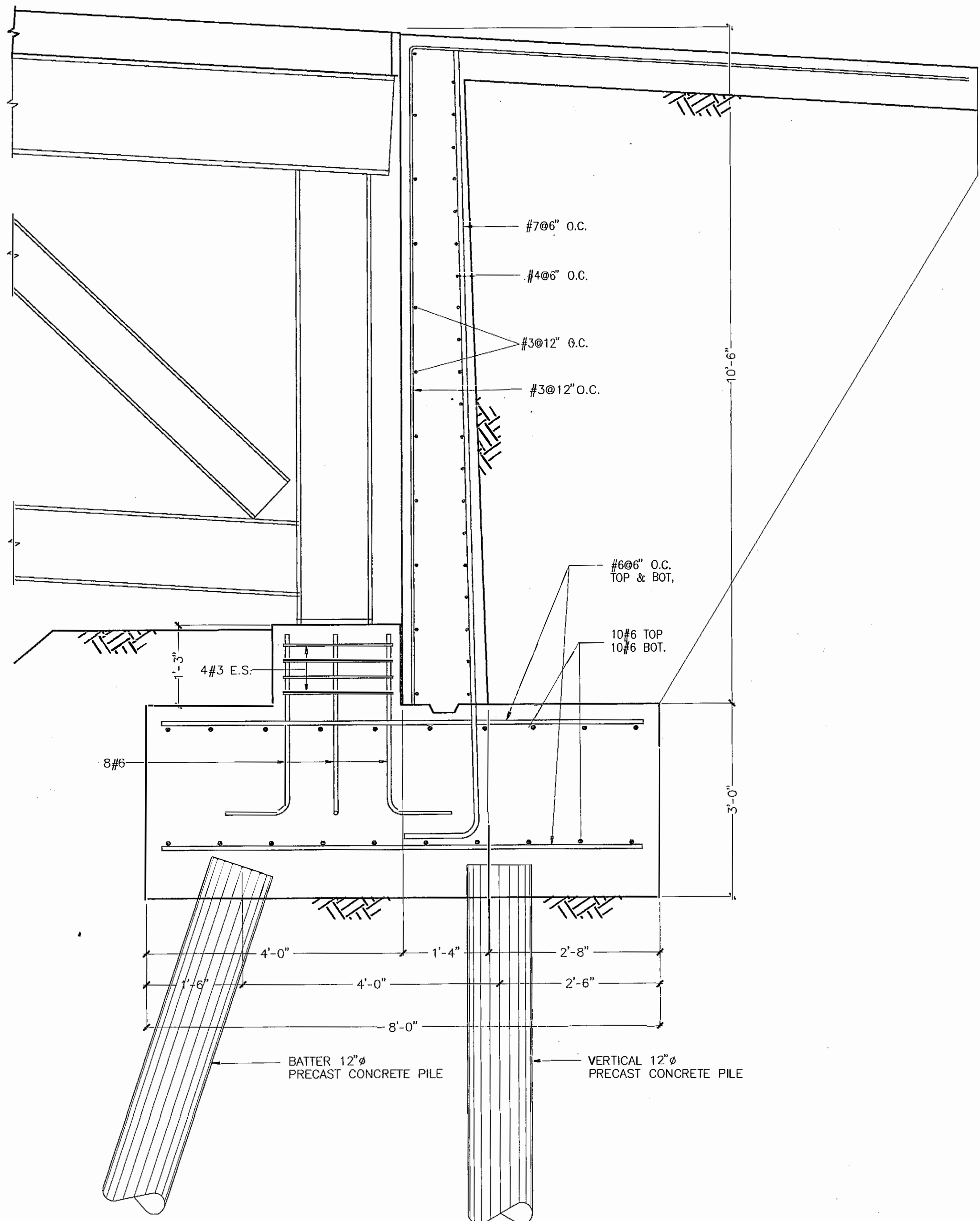
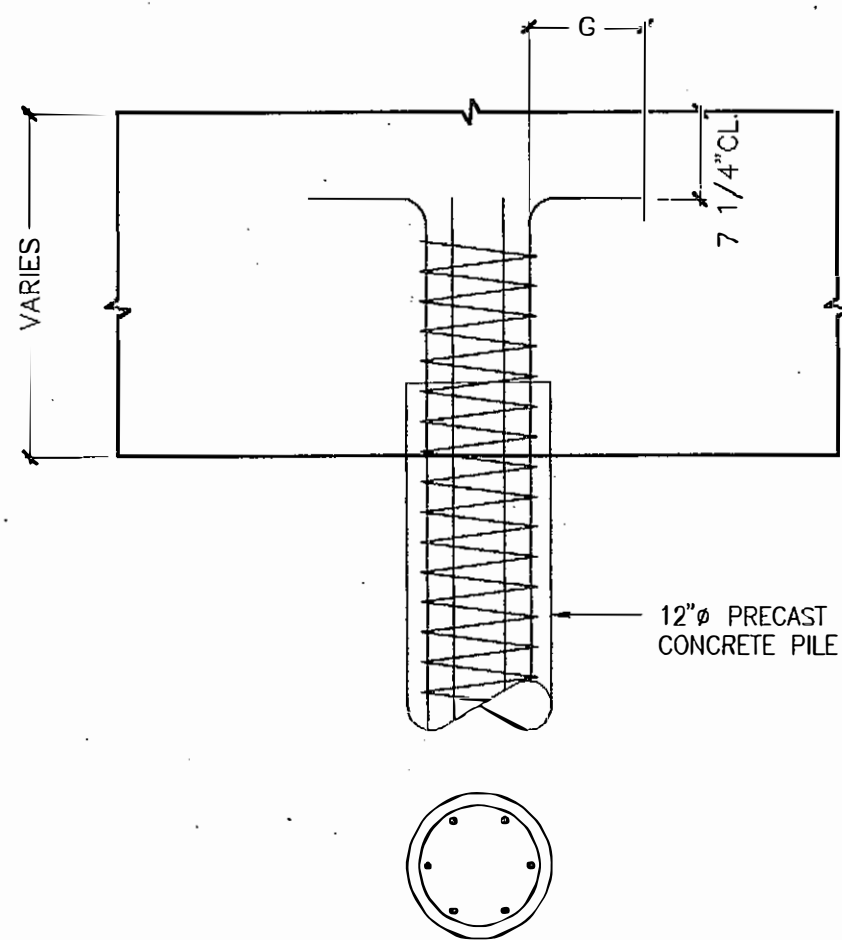
FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	150	181

FOR REFERENCE ONLY
PW-8361, DI-220569

Event: 4339DR-PR



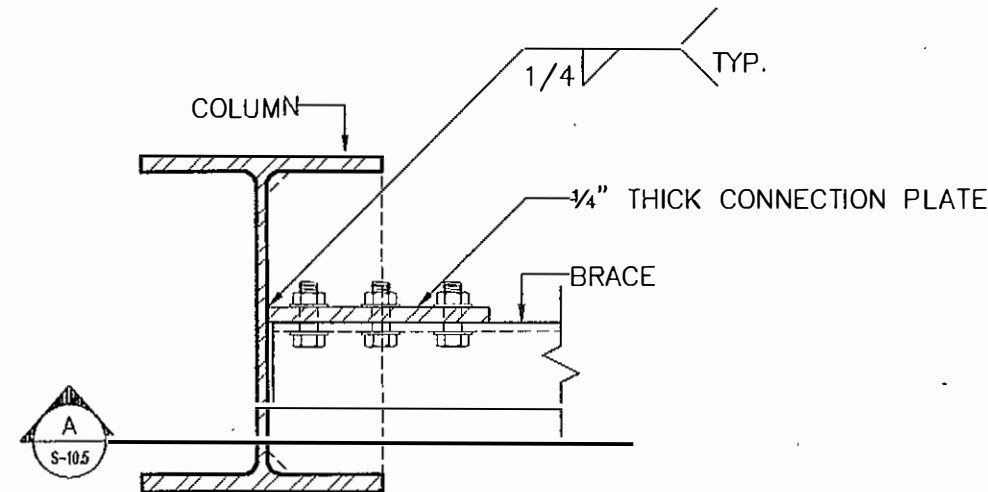
SECTION 1
SCALE: 3/4"=1'-0"



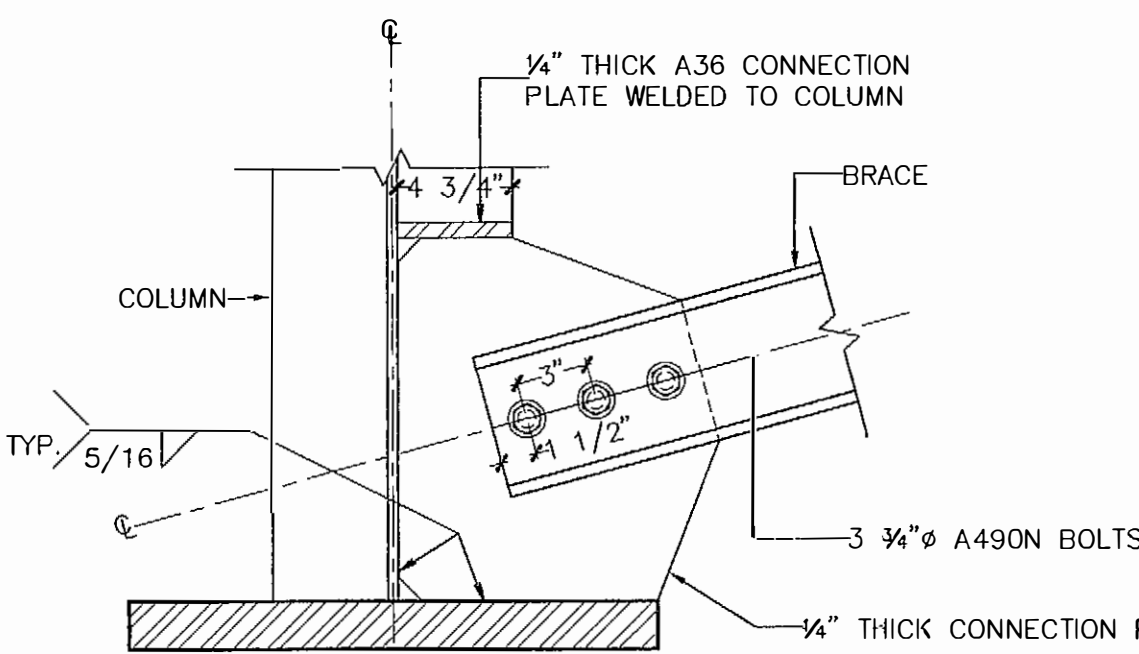
SECTION 2
SCALE: 3/4"=1'-0"

CONCRETE PILES

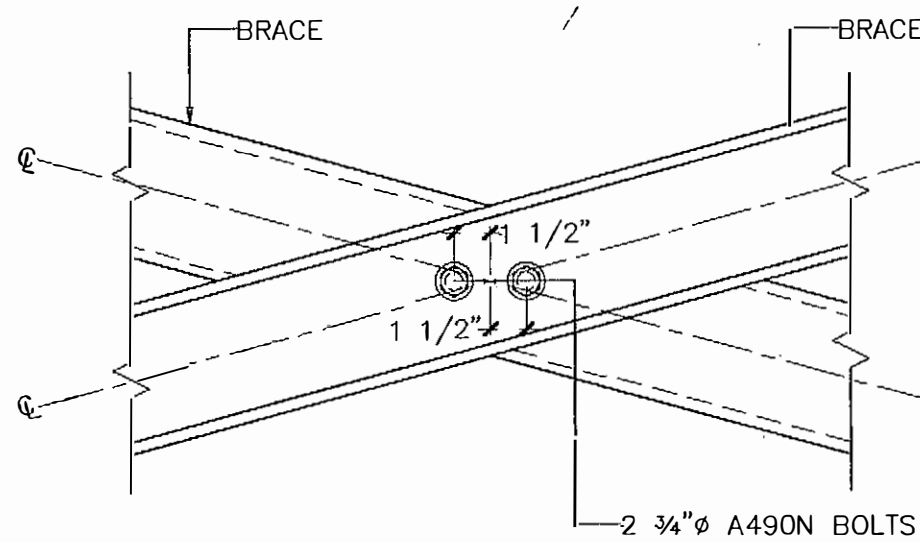
All the piles to be installed in the project shall be 12" diameter circular precast concrete piles as manufactured by FUENTES CONCRETE PILE, Box 867, Bayamón, Puerto Rico 00960-0867; telephone (787) 785-9065, fax 740-4366, or approved equal. The piles will be cast in sectional lengths and jointed together with a steel structural connection, all reinforced and cast in a central plant to the satisfaction of the Structural Engineering Consultant. Sectional concrete piles shall be reinforced with six (6) each no. 5 bars, grade 60, secured in a cage by spiral stirrups spaced at 2-1/2" on center. Steel structural connection shall be composed of a sleeve and band arrangement. Sleeves shall be 24" long and 0.188" wall divided in the center by a steel plate upon which the mandrel rests while driving, sections to be connected by spot welding sleeve to bands. Concrete shall be 5,000 psi at 28 days.



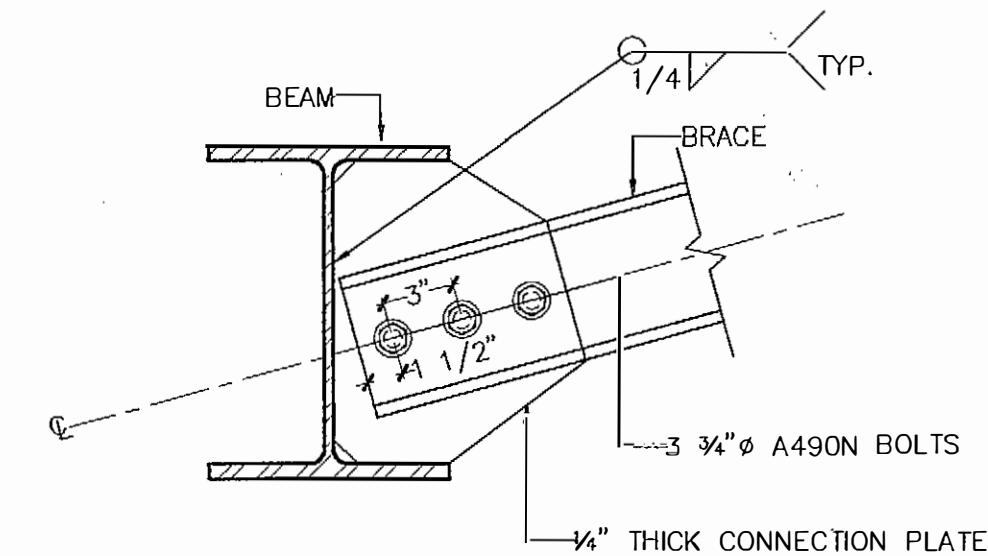
DETAIL 1
SCALE: 1 1/2"=1'-0"



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



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



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

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CAPARRA HEIGHTS, PUERTO RICO, 00920

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UTUADO / ARECIBO
PUERTO RICO

DATE REVISIONS

SCALE:
AS SHOWN

BRIDGE
SECTIONS AND DETAILS

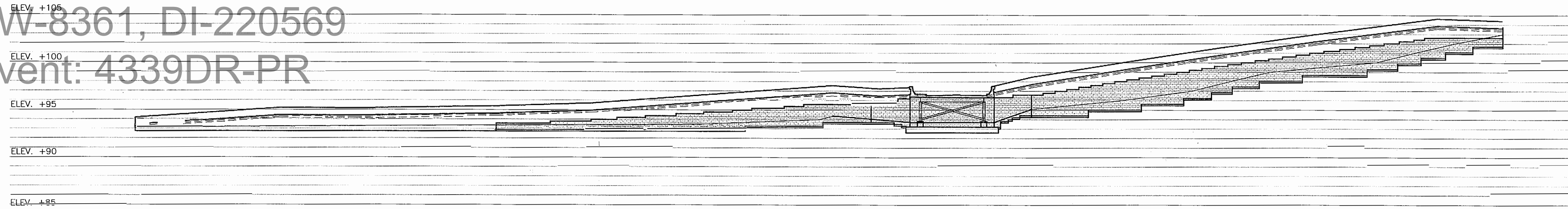
S
10.5

FOR REFERENCE ONLY

PW-8361, DI-220569

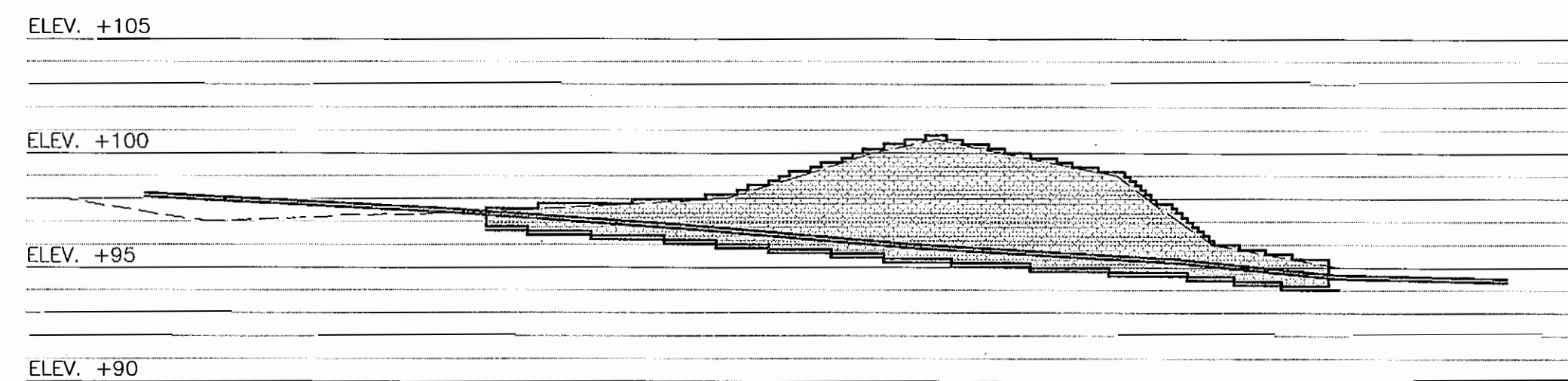
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	159	181

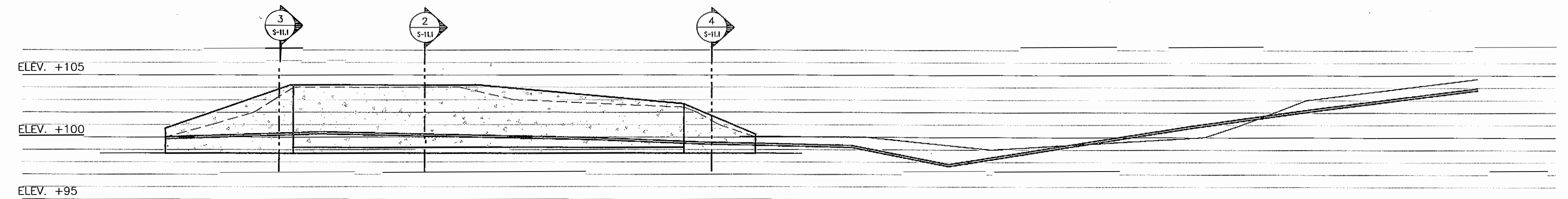


WALL "DD" ELEVATION
SCALE: 1:250

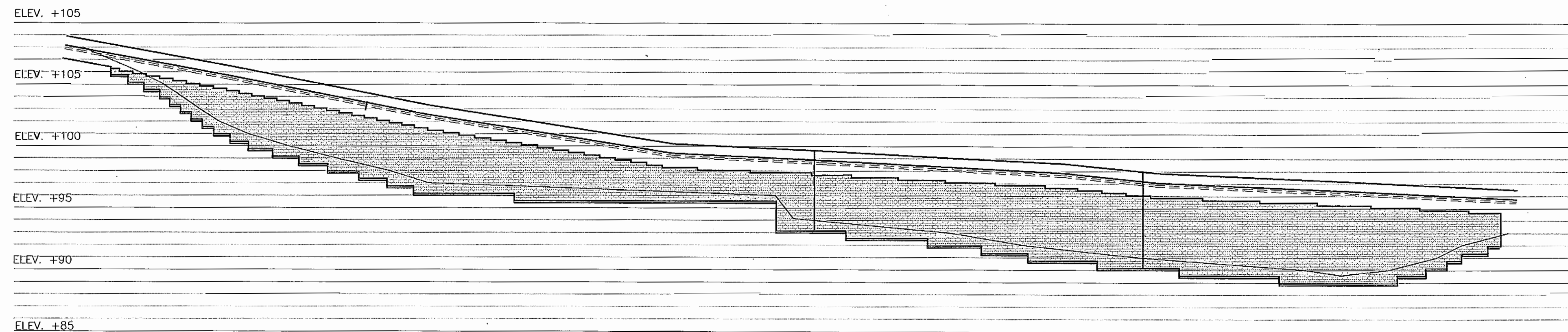
WALL "AA" ELEVATION
SCALE: 1:250



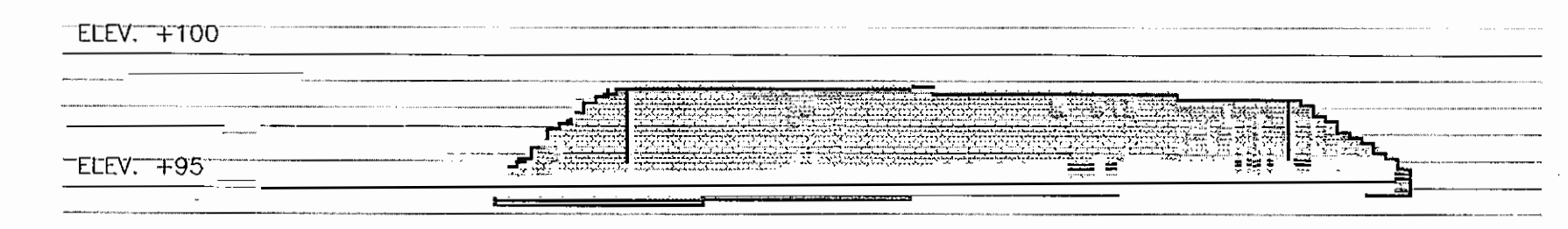
WALL "EE" ELEVATION
SCALE: 1:250



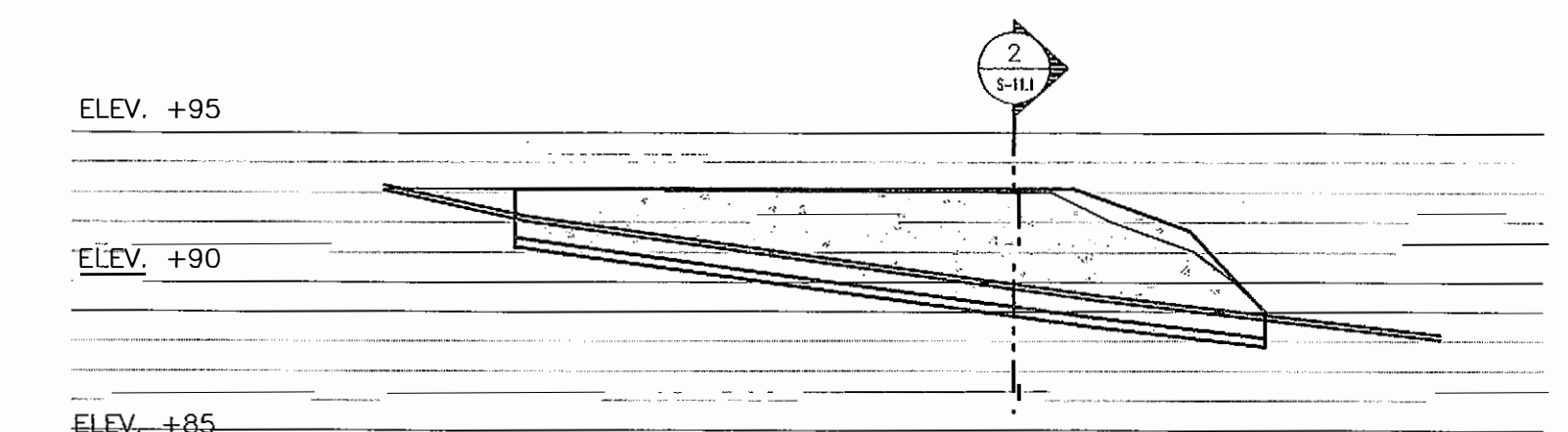
WALL "BB" ELEVATION
SCALE: 1:250



WALL "FF" ELEVATION
SCALE: 1:250



WALL "CC" ELEVATION
SCALE: 1:250



WALL "GG" ELEVATION
SCALE: 1:250



CARLOS I. CABRÉ & ASSOCIATES
ENGINEERING CONSULTATNS
1767 JESÚS T. PIÑERO AVENUE
CAPARRA HEIGHTS, PUERTO RICO, 00920

NOTES:
SEE SHEETS C-5 AND C-6 TO SEE SITE LOCATION OF WALLS

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PUERTO RICO

DATE

REVISIONS

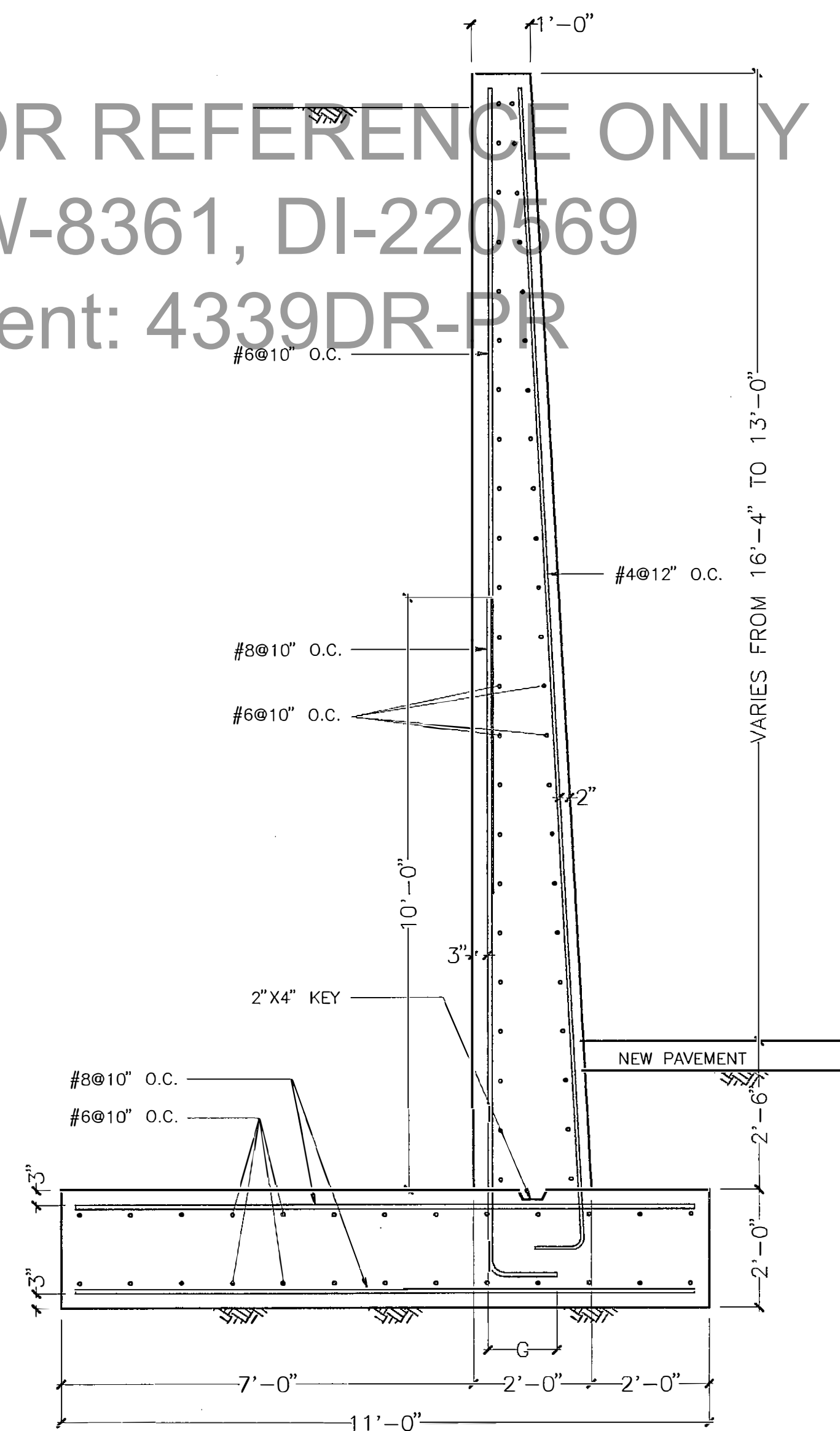
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RETAINING WALL ELEVATIONS

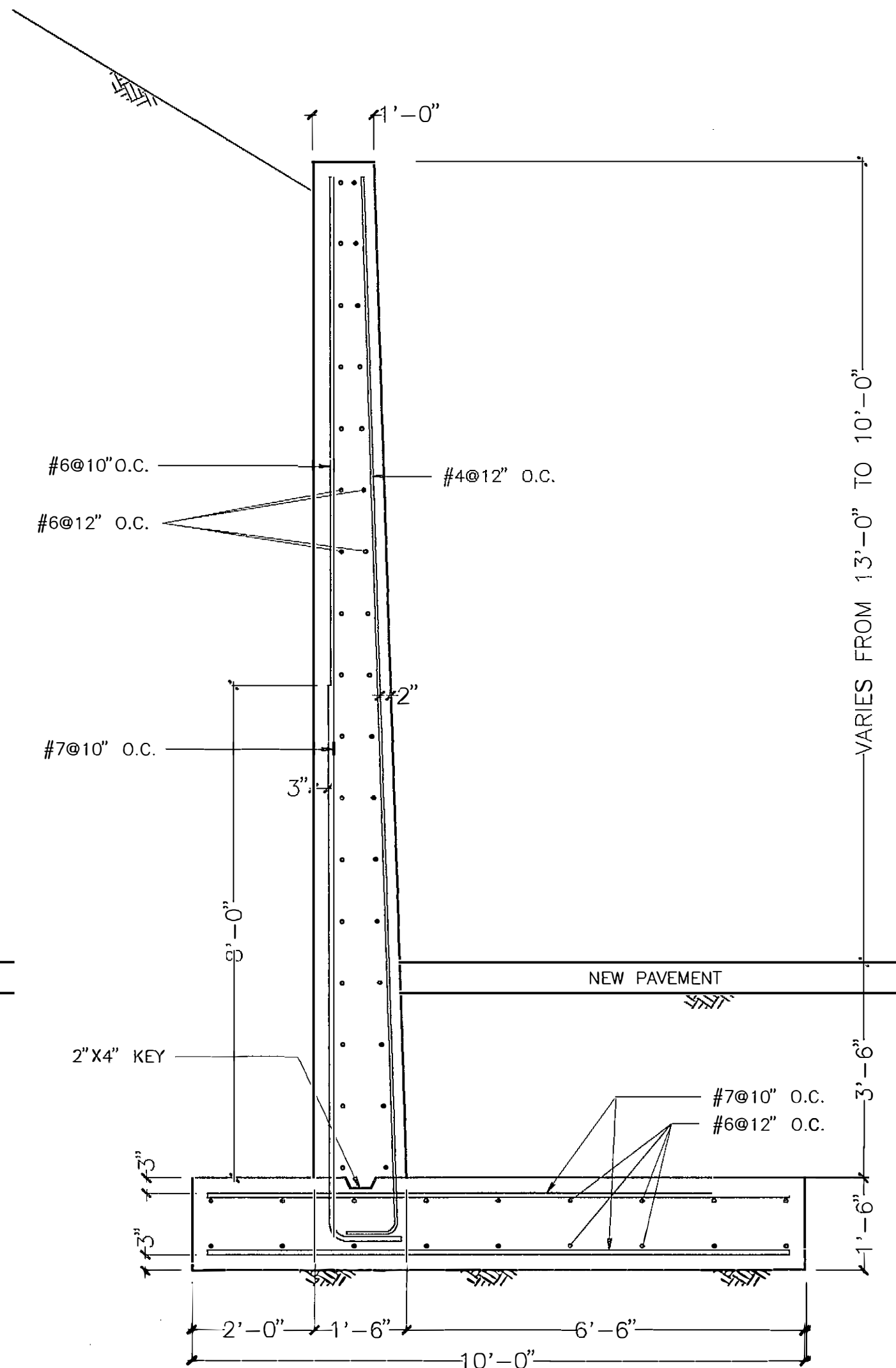
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11.0

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

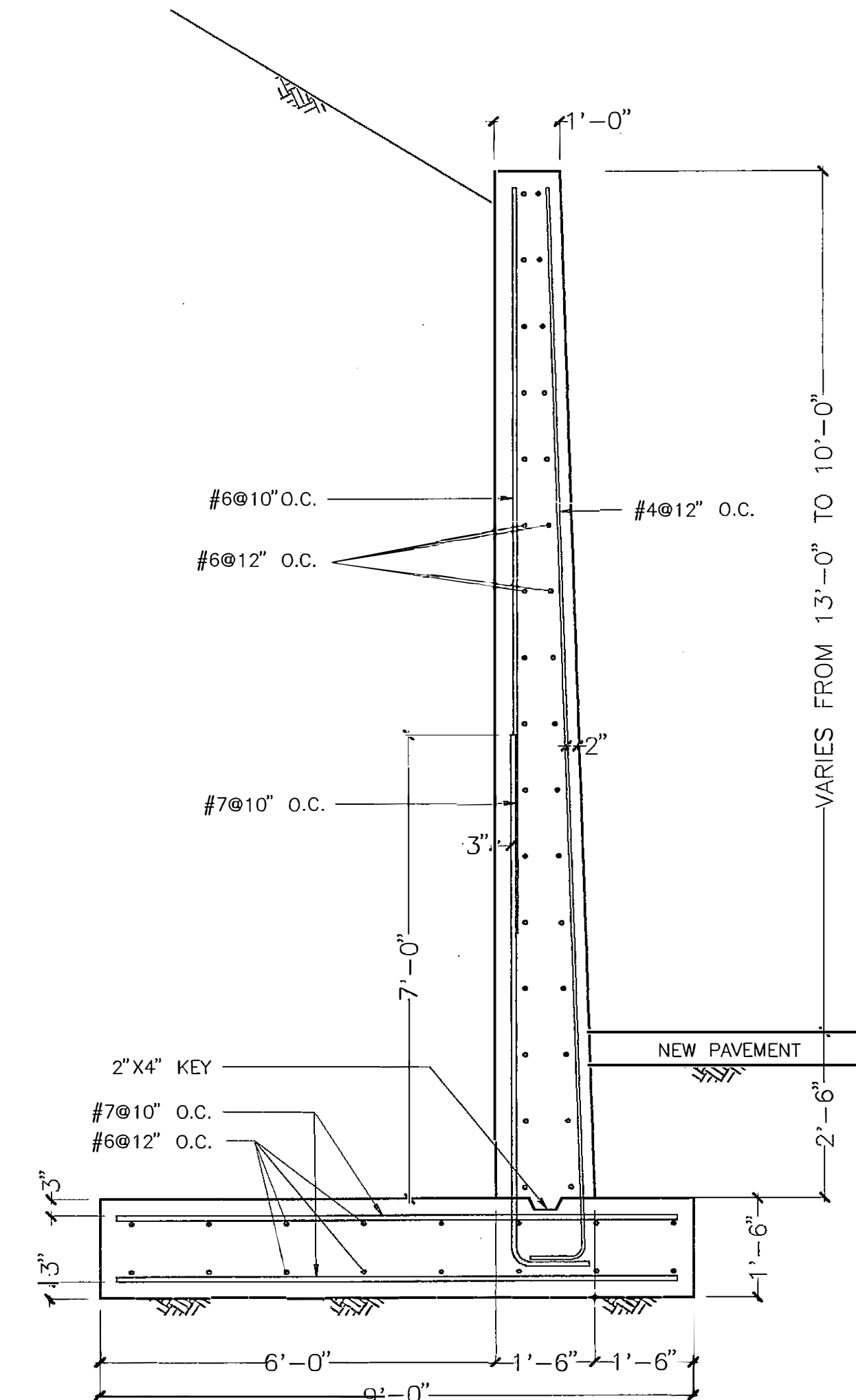
FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	160	181



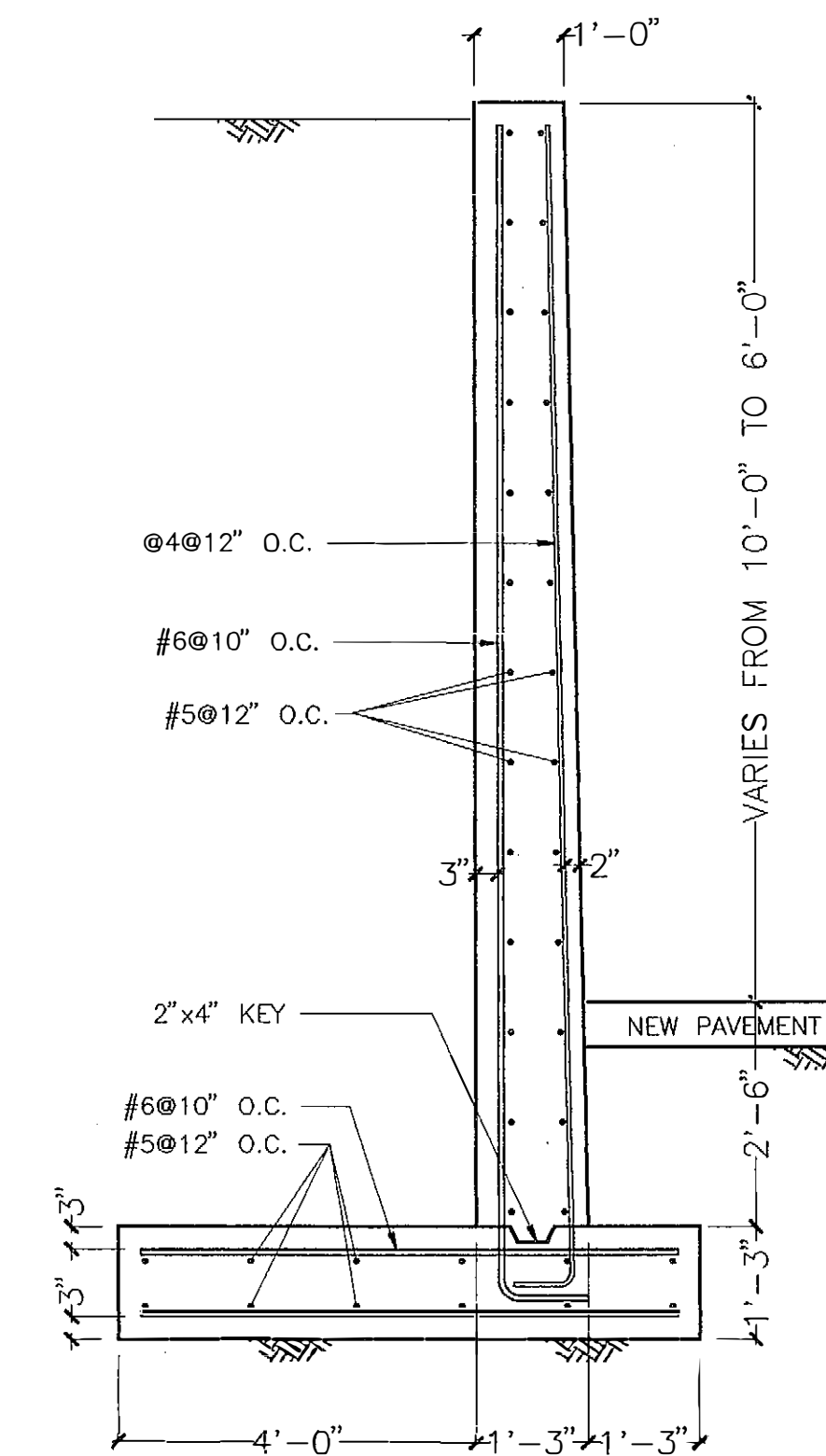
SECTION 1
SCALE: 1/2"=1'-0"
S-11.1



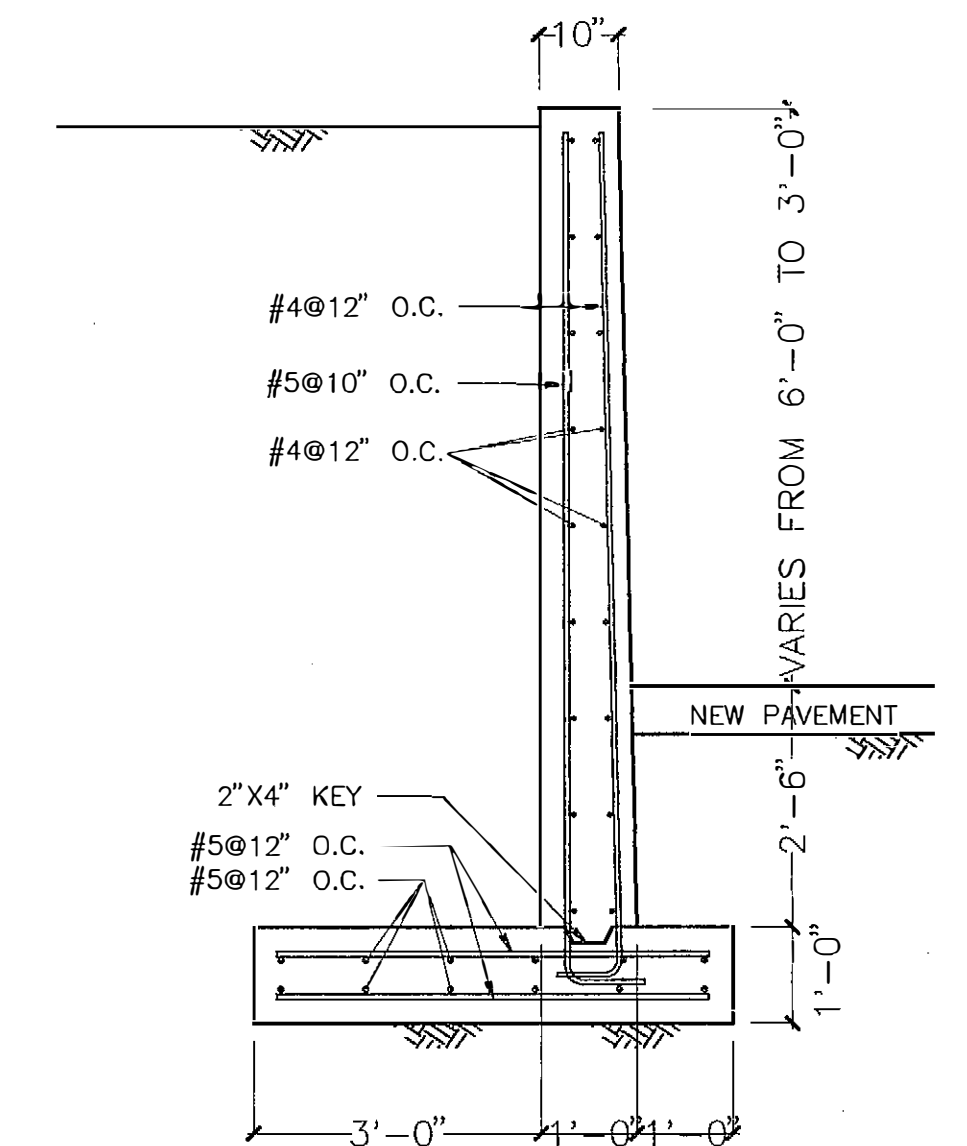
SECTION 2
SCALE: 1/2"=1'-0"
S-11.1



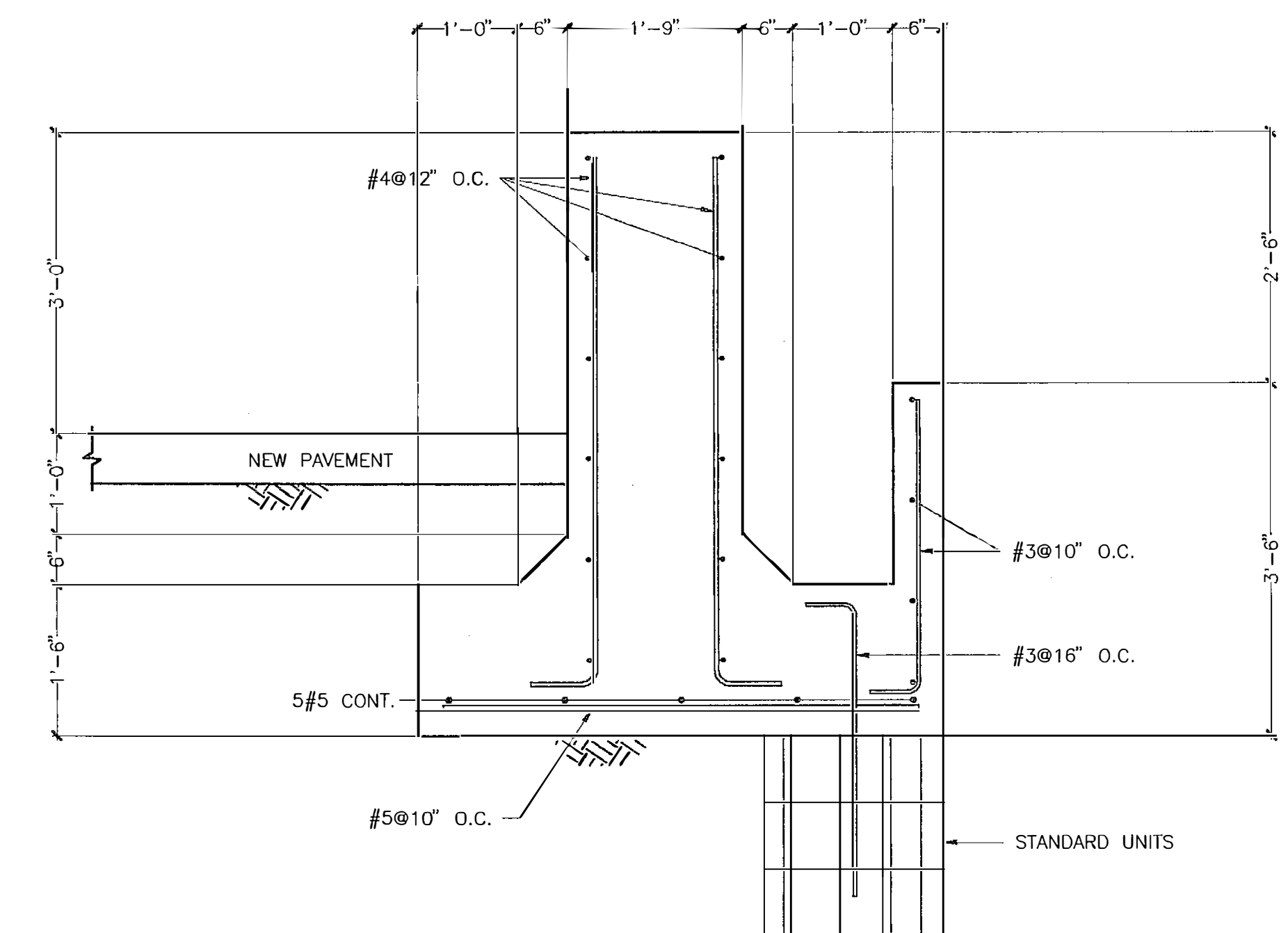
SECTION 3
SCALE: 1/2"=1'-0"
S-11.1



SECTION 4
SCALE: 1/2"=1'-0"
S-11.1



SECTION 5
SCALE: 1/2"=1'-0"
S-11.1



SECTION 6
SCALE: 3/4"=1'-0"
S-11.1

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PUERTO RICO

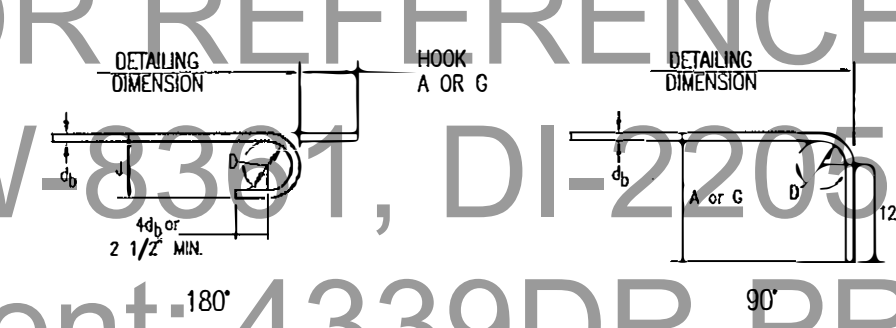
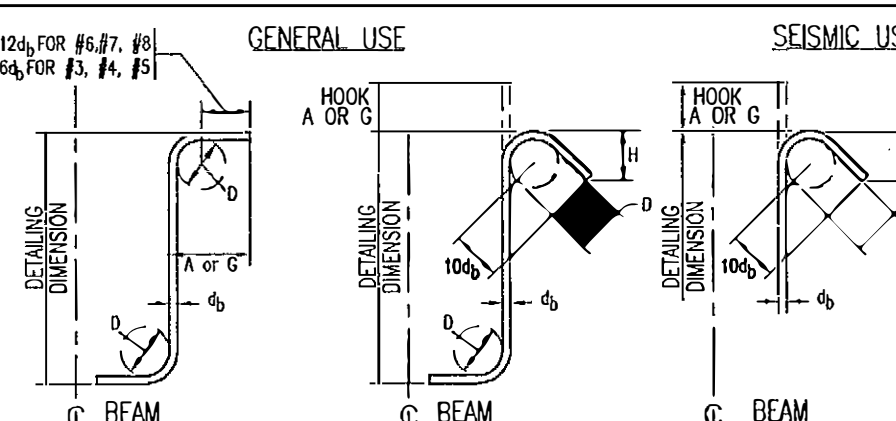
DATE	REVISIONS

SCALE:
AS SHOWN

RETAINING WALL SECTIONS

S
11.1

FOR REFERENCE ONLY
PW-8391, DI-220569
Event: 4339DR-PR

ACI STANDARD HOOKS				
				
RECOMMENDED END HOOKS, ALL GRADES				
Bar Size	Finished bend diameter d _b , in.	180° hooks		90° hooks
		A or G	J	A or G
#3	2 1/4	5"	3"	6"
#4	3	6"	4"	8"
#5	3 3/4	7"	5"	10"
#6	4 1/2	8"	6"	1'-0"
#7	5 1/4	10"	7"	1'-2"
#8	6	11"	8"	1'-4"
#9	9 1/2	1'-3"	11 3/4"	1'-7"
#10	10 3/4	1'-5"	1'-1 1/4"	1'-10"
#11	12	1'-7"	1'-2 3/4"	2'-0"
#14	18 1/4	2'-3"	1'-9 3/4"	2'-7"
#18	24	3'-0"	2'-4 1/2"	3'-5"
STIRRUP & TIE HOOKS				
				
RECOMMENDED STIRRUP AND TIE HOOKS, ALL GRADES				
Bar Size	D, in.	General Use		Seismic Use
		90° hook	135° hook	135° hook
#3	1 1/2	4"	4"	5"
#4	2	4 1/2"	4 1/2"	6 1/2"
#5	2 1/2	5"	5 1/2"	7"
#6	3	6"	6 1/2"	8"
#7	3 1/2	7"	7 1/2"	9"
#8	4	8"	8 1/2"	10"
#9	5	9"	9 1/2"	11"
#10	6	10"	10 1/2"	12"
#11	7	11"	11 1/2"	13"
#14	9	14"	14 1/2"	16"
#18	12	18"	18 1/2"	20"

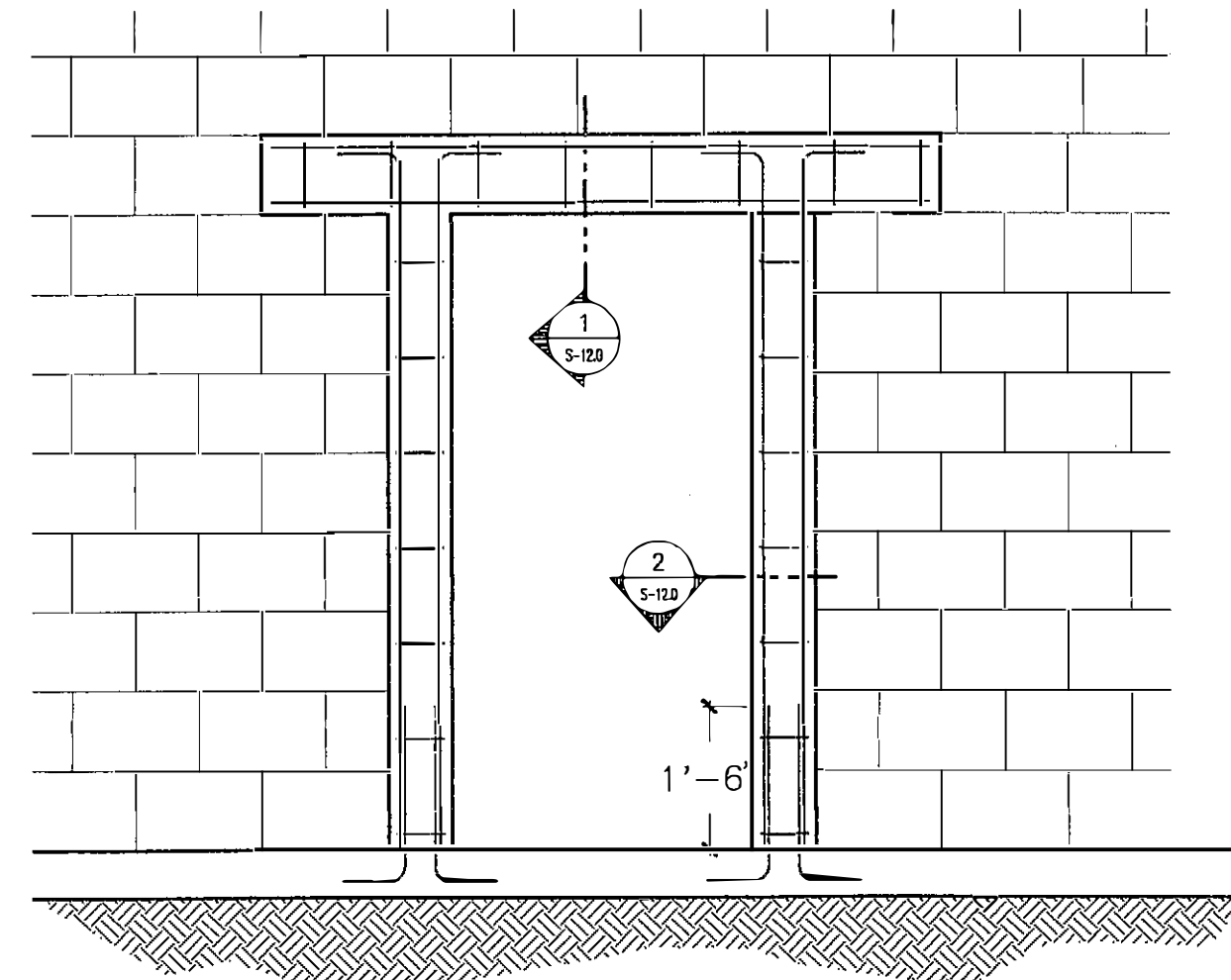
ASTM STANDARD REINFORCING BARS				
BAR SIZE	WEIGHT PER FOOT	NOMINAL DIMENSIONS - ROUND BARS		
		DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERCENT TOLERANCE
#3	0.876	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.044	0.850	0.60	2.749
#8	2.670	1.000	0.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.650	1.693	2.25	5.320
#18	13.60	2.257	4.00	7.090

DEFINITIONS OF CATEGORIES					
REINFORCING BARS IN STRUCTURAL ELEMENT	CONCRETE COVER	CATEGORY, ACCORDING TO CENTER-TO-CENTER BAR SPACING			
		$\leq 3d_b$	$\geq 3d_b$, $< 4d_b$	$\geq 4d_b$, $< 6d_b$	$\geq 6d_b$
LONGITUDINAL BARS IN BEAMS AND COLUMNS AND INNER LAYER OF WALLS OR SLABS	$\leq 3d_b$	1	1	1	2
	$\geq 3d_b$	1	3	5	6
ALL OTHER REINFORCING BARS	$\leq d_b$	1	1	1	2
	$> d_b$, $< 2d_b$	1	3	3	4
	$\geq 2d_b$	1	3	5	6

BASIC TENSION SPLICES FOR GRADE 60 BARS									
BAR SIZE	CLASS A, B & C LAP SPLICE LENGTHS (INCHES)								
	f'c 3000 psi			f'c 4000 psi			f'c 5000 psi		
	A	B	C	A	B	C	A	B	C
#3	12	16	20	12	16	20	12	16	20
#4	12	16	20	12	16	20	12	16	20
#5	12	20	26	15	20	26	15	20	26
#6	19	25	33	18	24	31	18	24	31
#7	26	34	45	23	30	30	21	27	36
#8	35	45	59	30	30	51	27	35	46
#9	44	57	74	38	49	65	34	44	58
#10	56	72	95	48	63	82	43	56	73
#11	68	89	116	59	77	101	53	69	90

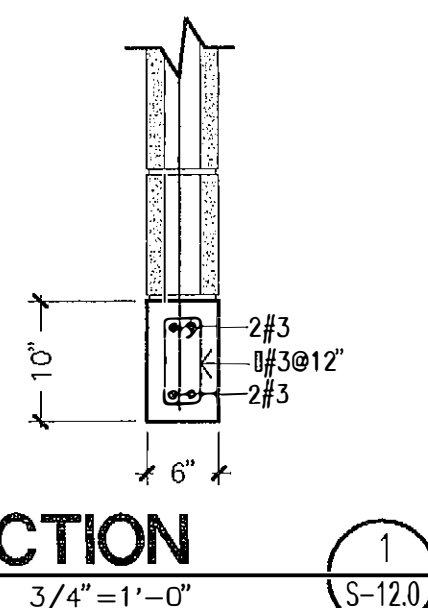
NOTE: FOR OTHER CONDITIONS, CONSULT WITH STRUCTURAL ENGINEERS.

TENSION DEVELOPMENT LENGTH (inches), f'c=3000 psi, Grade 60 Bars											
BAR SIZE	TOP BARS						OTHER BARS				
	1	2	3	4	5	6	1	2	3	4	5
#3	16	16	16	16	16	16	13	13	13	13	13
#4	23	22	22	22	22	22	18	17	17	17	17
#5	36	29	27	27	27	27	27	22	21	21	21
#6	50	40	35	32	32	32	39	31	27	25	25
#7	69	55	48	39	38	38	53	42	37	30	29
#8	90	72	63	51	45	43	70	56	49	39	35
#9	114	91	80	64	57	48	88	70	62	49	44
#10	145	116	102	81	73	58	112	89	78	63	56
#11	178	142	125	100	89	71	137	110	96	77	69
#14	242	242	170	170	121	121	187	187	131	131	93
#18	356	356	250	250	178	178	274	274	192	192	137



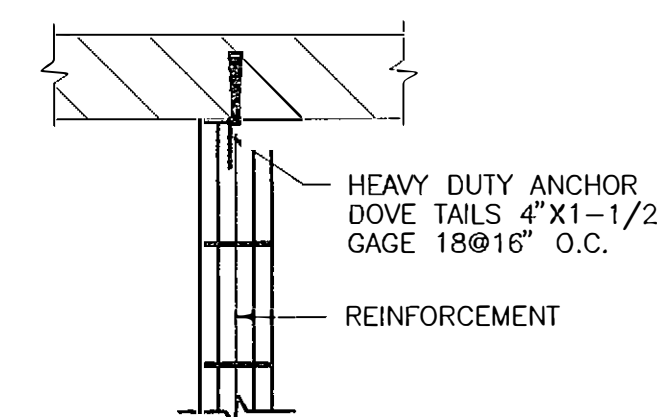
TYPICAL DOOR OPENING

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



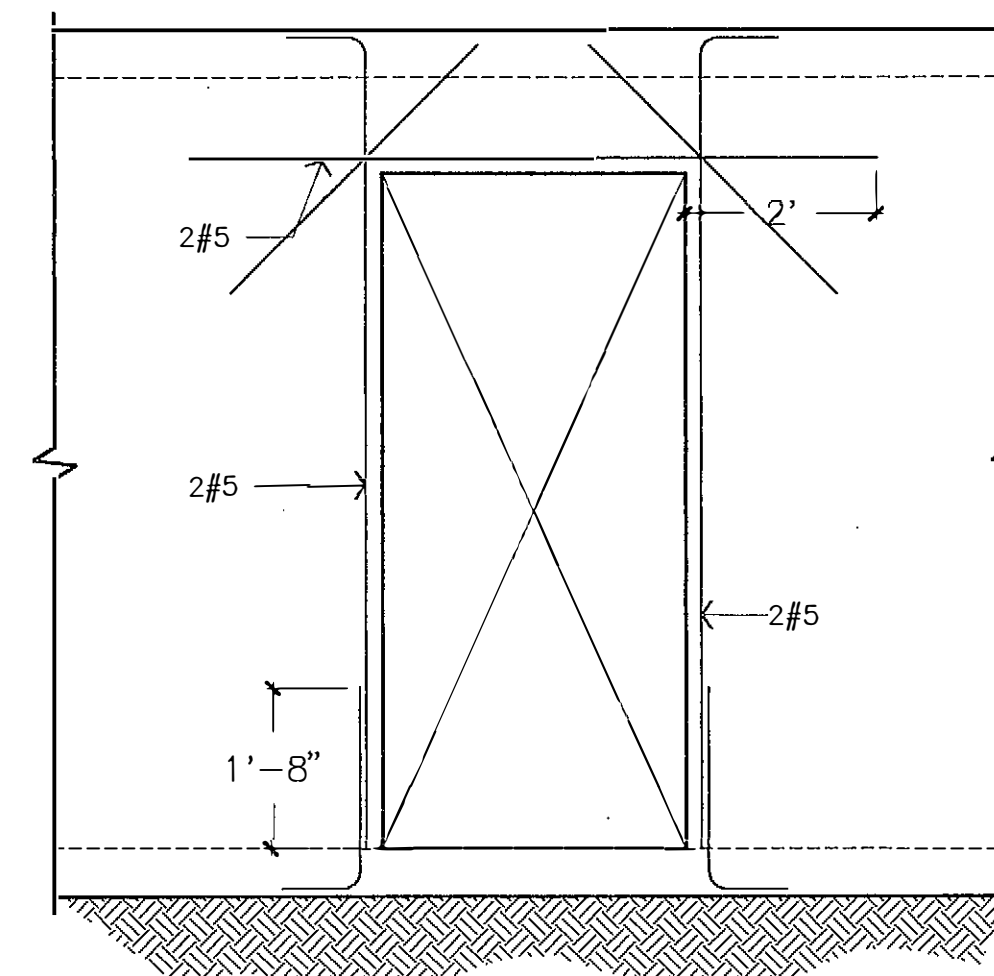
SECTION

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



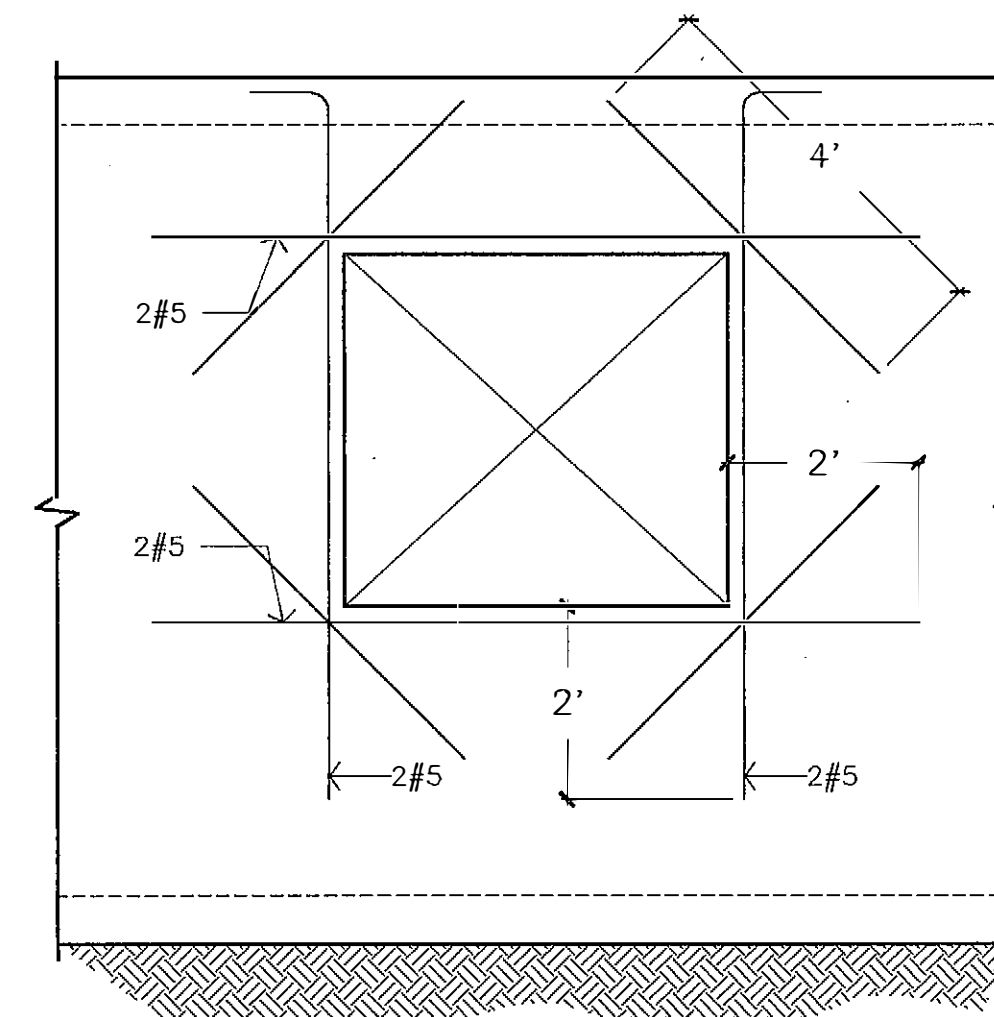
WALL CONNECTION TO ROOF SLAB

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



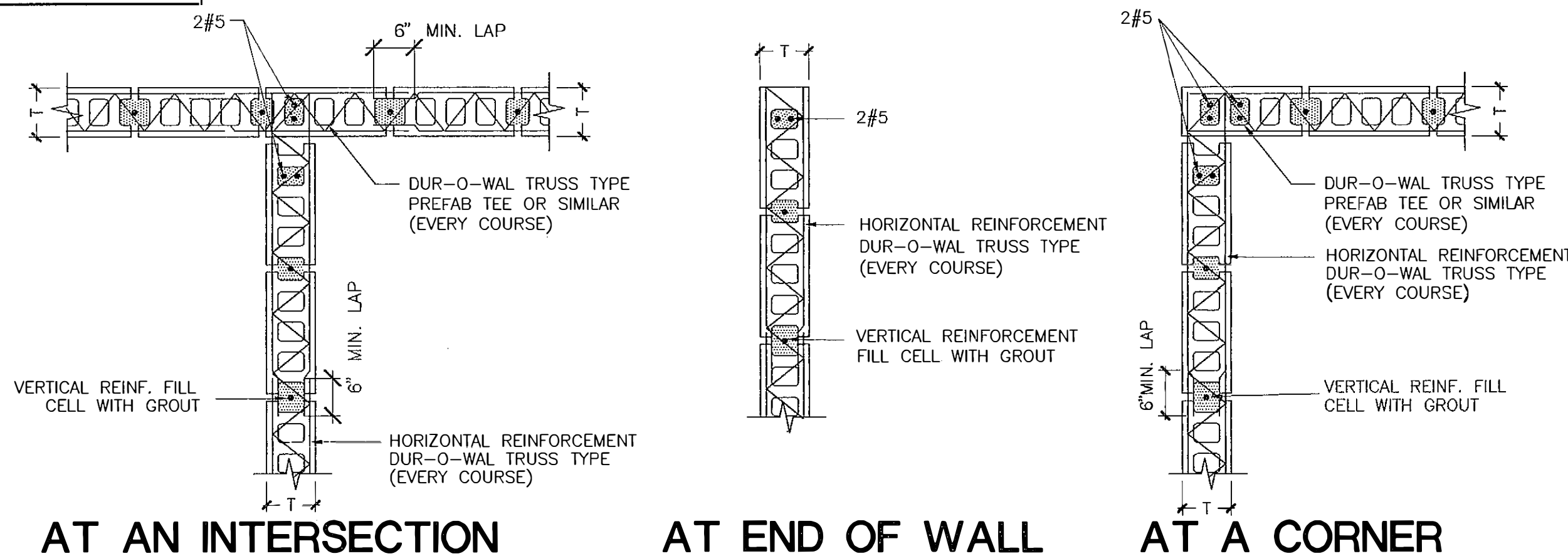
REINFORCEMENT AROUND DOOR OPENINGS

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



REINFORCEMENT AROUND WINDOW OPENINGS

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



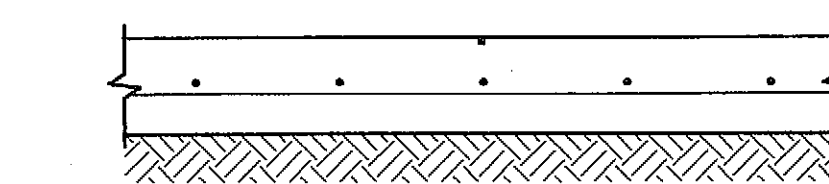
AT AN INTERSECTION

AT END OF WALL

AT A CORNER

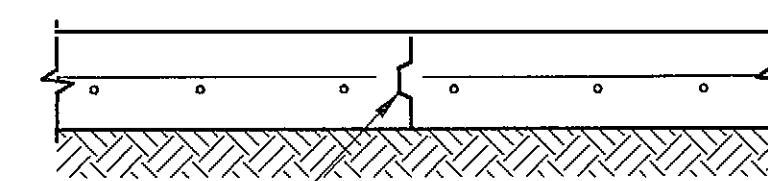
TYPICAL MASONRY WALL DETAILS

NOT TO SCALE



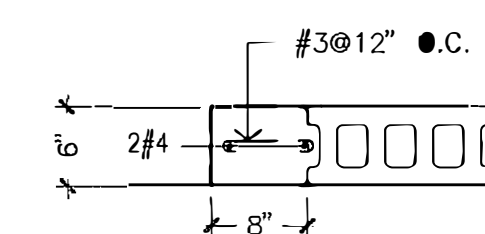
CONTRACTION JOINT DETAIL

NOT TO SCALE



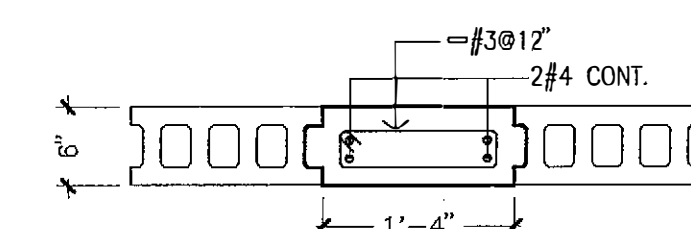
CONSTRUCTION JOINT DETAIL

NOT TO SCALE



SECTION

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



TYPICAL PILLASTER DETAIL

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

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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE REVISIONS

SCALE:
AS SHOWN

GENERAL TABLES,
SECTIONS AND DETAILS

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12.0

FOR REFERENCE ONLY
PW-3001-220569
Event 1000PR PR

GENERAL NOTES

1. WHERE "OWNER" IS MENTIONED IN PLANS IT IS TO BE UNDERSTOOD EITHER THE OWNER OR HIS AUTHORIZED REPRESENTATIVE.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON STRUCTURAL PLANS AGAINST ARCHITECTURAL DRAWINGS DIMENSIONS BEFORE LAYING OUT THE WORK.
3. ALL SYMBOLS AND WORKING STRESSES AS WELL AS CONCRETE WORK SHALL CONFORM TO THE STANDARDS OF THE AMERICAN CONCRETE INSTITUTE (ACI-318-89).
4. ALL CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS AND PROVISIONS OF THE FOLLOWING CODES AND PROVISIONS:

PUERTO RICO BUILDING CODE LATEST EDITION, (PRBC).
AMERICAN CONCRETE INSTITUTE ACI-318-89.
AMERICAN SOCIETY FOR TESTING OF MATERIALS, (ASTM).
CONCRETE REINFORCEMENT STEEL INSTITUTE, (CRSI).
AMERICAN INSTITUTE OF STEEL CONSTRUCTION, (AISC)
PRECAST - PRESTRESSED CONCRETE INSTITUTE, (PCI)
UNIFORM BUILDING CODE LATEST EDITION, (UBC)
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND SUPPLEMENT, (NDS)
TIMBER CONSTRUCTION MANUAL, (TCM)
AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, (AASHTO)
LRFD BRIDGE DESIGN SPECIFICATIONS

5. DESIGN LOADS:

- A. LIVE LOADS
- | | |
|-----------------|---------|
| 1. ROOF | 20 PSF |
| 2. COMMON AREAS | 110 PSF |
| 3. STAIRS | 110 PSF |
| 4. CORRIDORS | 110 PSF |
- B. WIND LOADS AS PER PUERTO RICO BUILDING CODE, OCT. 1987.
- C. SEISMIC LOADS AS PER PUERTO RICO BUILDING CODE, OCT. 1987.
- D. BRIDGE LOADS AASHTO AND PRBC.

REINFORCED CONCRETE

1. ALL CONCRETE SHALL DEVELOP A MINIMUM 28 DAYS WORKING STRENGTH OF 3000 PSI, UNLESS NOTED OTHERWISE
2. ALL REINFORCING STEEL SHALL MEET ASTM A-615, GRADE 60, SPECIFICATIONS.
3. ALL SLABS AND CORRESPONDING BEAMS, CURBS OR APRONS SHALL BE POURED MONOLITHICALLY.
4. ALL LAPING, BENDING AND PLACING OF REINFORCEMENT SHALL BE DONE IN ACCORDANCE WITH ACI-318-89 BUILDING CODE.
5. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PRODUCE CORRECTLY ALIGNED CONCRETE CONSIDERING AMONG OTHER THINGS, THE ELASTIC DEFORMATION OF THE STRUCTURAL MEMBERS.
6. CONTRACTOR SHALL SUBMIT THE LOCATION AND DETAILS OF ALL CONSTRUCTION AND CONTROL JOINTS IN SLABS AND BEAMS FOR OWNER APPROVAL.
7. MINIMUM STEEL PROTECTION SHALL BE AS FOLLOWS:
- A. FOOTINGS
- | | |
|--------------------|----|
| I. SIDE AND BOTTOM | 3" |
| II. TOP | 2" |
- B. WALLS
- | | |
|--------------------------------------|---|
| I. POUR AGAINST EARTH | 3" |
| II. EXPOSED TO EARTH OR WEATHER | 1 1/2" #3 - #5
2" FOR #6 AND LARGER |
| III. NOT EXPOSED TO EARTH OR WEATHER | 3/4" UP TO #11
1 1/2" FOR #14 AND LARGER |
- C. SLABS AND JOISTS
- | | |
|---|---|
| I. BEAMS AND COLUMNS | 3/4" UP TO #11
1 1/2" FOR #14 AND LARGER |
| F. STRUCTURAL SLAB ON GRADE OR MAT FOUNDATION WITH VAPOR BARRIER (BOTTOM BAR) | 1" |
8. ALL SLEEVES, CONDUITS, INSERTS AND BOLTS SHALL BE IN PLACE BEFORE CONCRETE IS POURED. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
9. FOR CONCRETE OPENINGS AND FEATURES NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
10. OPENINGS IN CONCRETE WALLS SHALL BE REINFORCED AROUND WITH 2 #5 BARS PLACED FROM THE FACE AND EXTENDING 24" BEYOND CORNERS, UNLESS OTHERWISE CALLED FOR.
11. TEMPERATURE REINFORMENT SHALL BE PROVIDED IN ALL ONE WAY SLABS NORMAL TO THE PRINCIPAL REINFORCEMENT IN ACCORDANCE WITH THE ACI-318-89 BUILDING CODE.
12. THERE SHALL BE NO HORIZONTAL JOINTS IN STRUCTURAL MEMBERS UNLESS A VERTICAL BULKHEAD AND KEY JOINT IS PROVIDED.
13. ALL NEGATIVE REINFORMENT (TOP REINF.) & POSITIVE REINFORMENT (BOTTOM REINF.) IN SLABS AND BEAMS SHALL BE EXTENDED BEYOND THE CENTER LINE OF THE END SUPPORTS IN ACCORDANCE WITH THE ACI-318-89 BUILDING CODE, UNLESS OTHERWISE CALLED FOR.
14. REINFORCE CONCRETE WALLS BOTH DIRECTIONS AS FOLLOWS (UNLESS NOTED):
- | | |
|--------------|-------------|
| A. 5" WALLS | #3@9" |
| B. 6" WALLS | #4@12" |
| C. 8" WALLS | #4@10" |
| D. 10" WALLS | #3@9" E.F. |
| E. 12" WALLS | #4@12" E.F. |
15. DOWELS SHALL BE SAME SIZE AND NUMBER AS WALL OR COLUMN VERTICAL REINFORCEMENT EMBEDDED 36 DIAMETERS INTO FOOTING AND 40 DIAMETERS ABOVE IT. (UNLESS NOTED)

CONCRETE MASONRY

1. CONCRETE MASONRY UNITS SHALL BE TYPE N-1 WITH COMPRESSIVE STRENGTH OF 1350 PSI AND SHALL MEET THE REQUIREMENTS OF ASTM C140-75.
2. MORTAR SHALL BE TYPE M AND SHALL MEET THE REQUIREMENTS OF ASTM C270-87A.
3. GROUT SHALL MEET THE REQUIREMENTS OF ASTM C476-83 WITH A SLUMP OF 9" WITH A COMPRESSIVE STRENGTH OF 2000 PSI.
4. ALL CELLS WITH VERTICAL REINFORCEMENT SHALL BE FILLED.
5. HORIZONTAL REINFORCEMENT SHALL BE TRUSS TYPE.
6. UNLESS OTHERWISE NOTED REINFORCE MASONRY WALLS AS FOLLOWS:
- | CMU THICK | VERTICAL REINF. | HORIZONTAL REINF. |
|-----------|------------------|---|
| 4" | #3@16" OR #4@32" | DUR-O-WALL STD EVERY OTHER COURSE. |
| 6" | #3@16" OR #4@32" | DUR-O-WALL STD EVERY COURSE. |
| 6" | #5@32" OR #6@48" | DUR-O-WALL EXTRA HEAVY DUTY E.O COURSE. |
| 8" | #5@32" OR #6@48" | DUR-O-WALL EXTRA HEAVY DURY EVERY COURSE. |

7. ALL WALL CORNERS SHALL BE MASONRY BONDED.

8. ALL BLOCK WALLS SHALL BE ANCHORED TO THE STRUCTURE BY MEANS OF #3 DOWELS 6" INTO THE WALL, HOOKED IN TO THE STRUCTURE AND SPACED AT A MINIMUM OF 16".

FOUNDATION -- SOIL

1. ALL THE SOIL INFORMATION IS BASED ON THE SUB-SOIL REPORT " --- --- " BY VAZQUEZ CASTILLO-RODRIGUEZ MOLINA GEOTECHNICAL AND ENGINEERING GEOLOGY CONSULTANTS, DATED:
2. CONTRACTOR SHALL GET FULLY ACQUAINTED WITH THE MENTIONED SUB-SOIL REPORT AND THE DATA INCLUDED IN IT.
3. THE FILL MATERIAL IF REQUIRED SHALL BE A SELECTED APPROVED MATERIAL OF EITHER A GRANULAR OR COHESIVE NATURE; IT SHALL BE PLACED IN NEARLY HORIZONTAL LAYERS, 6 TO 8 INCHES THICK; IT SHALL BE IMPARTED WITH A DEGREE OF COMPACTION OF NOT LESS THAN 90% OF THE MAXIMUM UNIT DRY WEIGHT OF THE FILL MATERIAL AT ITS OPTIMUM MOISTURE CONTENT AS ESTABLISHED BY THE MODIFIED PROCTOR METHOD A.S.T.M. D-1557
4. FILL UNDER FLOOR SHALL BE COMPACTED SO AS TO ATTAIN AN ALLOWABLE BEARING CAPACITY VALUE OF 2000 PSF.
5. THE TOP SOIL SUPPORTING ANY EXISTING VEGETATION OF SHRUBS AND GRASSES SHALL BE REMOVED AT FILL AREAS PRIOR TO THE START OF ANY FILLING OPERATION AND THE EXPOSED GRADE SHALL BE COMPACTED TO AT LEAST 90% USING APPROVED COMPACTION EQUIPMENT PRIOR TO ANY FILLING OR PRIOR TO CASTING SLAB ON GROUND WHERE FILL IS NOT REQUIRED.

STRUCTURAL STEEL

1. STEEL SHALL CONFORM, UNLESS STATED OTHERWISE, TO THE FOLLOWING ASTM GRADES:
2. ALL W, CHANNELS, ANGLES, PLATES, ETC.
- | | |
|--------------------------------------|------------------------|
| A. STRUCTURAL TUBE | A36 |
| B. STEEL PIPE | A500 (Fy=46) |
| C. ANCHOR BOLTS AND UNFINISHED BOLTS | A53 (Fy=35) |
| D. BOLTS, NUTS AND WASHERS | A325 |
| E. WELDING ELECTRODES | A325
A333 CLASS E70 |
3. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE, EXCEPT AS MODIFIED IN THESE NOTES.
4. THE FABRICATOR IS RESPONSIBLE FOR THE SHOP DRAWINGS OF ALL CONNECTIONS. CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF THE MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO THE FABRICATOR'S CONNECTION DESIGN. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE FABRICATOR'S ENGINEER WITH THE ENGINEER'S SEAL. ENGINEER'S SEAL MAY BE QUALIFIED "FOR DETAILING OF CONNECTIONS ONLY".
5. SPlicing OF STEEL MEMBERS, UNLESS SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
6. STRUCTURAL STEEL WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND INSPECTIONS. AISC, ASTM & AWS SPECIFICATIONS WILL GOVERN ALL STRUCTURAL STEEL WORKS.
7. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION STANDARD PRACTICE.
8. STRUCTURAL STEEL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER AND IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY, AWS, REQUIREMENTS.
9. ALL INSPECTION AND TESTING OF WELDING SHALL BE DONE IN ACCORDANCE TO SECTION 501 THRU 607 OF THE AWS D10-89 CODE FOR WELDING IN BUILDING CONSTRUCTION.
10. ALL CONNECTIONS SHALL BE BEARING TYPE UNLESS OTHERWISE SPECIFIED IN PLANS.
11. SHOP DRAWINGS FOR ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL BE SUBMITTED TO THE DESIGNER FOR APPROVAL WELL IN ADVANCE OF CONSTRUCTION.
12. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR REVIEW AND APPROVAL OR REJECTIONS, PRIOR TO REMEDIAL OR CORRECTIVE ACTION TO BE IMPLEMENTED.

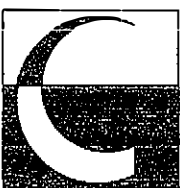
METAL DECK

1. METAL ROOF DECK SHALL COMPLY WITH THE REQUIREMENTS OF THE STEEL DECK INSTITUTE SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK, LATEST EDITION.
2. METAL ROOF DECK SHALL BE DESIGNED BY THE MANUFACTURER. THE MANUFACTURER'S ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN, ADEQUACY AND SAFETY OF ALL METAL ROOF DECK. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE MANUFACTURER'S ENGINER WITH THE ENGINEER'S SEAL.
3. METAL ROOF DECK SHALL HAVE THE CONFIGURATION, DEPTH A MINIMUM GAGE AS SHOWN ON THE ARCHITECTURAL AND/OR ENGINEERING DRAWINGS AS A MINIMUM.
4. DO NOT HANG OR SUPPORT ANY LOADS FROM METAL ROOF DECK.
5. METAL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.
6. METAL ROOF DECK WORK SHALL BE SUBJECT TO QUALITY ASSURANCE TESTING AND SPECIFICATIONS.
7. METAL ROOF DECK SHALL BE FASTENED TO THE STRUCTURE IN ACCORDANCE TO THE MANUFACTURERS SPECIFICATIONS FOR WIND LOADING.

STRUCTURAL WOOD

1. WOOD SHALL CONFORM, UNLESS STATED OTHERWISE, TO THE FOLLOWING STRESS GROUPS:
- A. DOUGLAS FIR, LARCH
- B. HEM-FIR
- C. EASTERN HEMLOCK, TAMARACK, JACK PINE, PACIFIC COAST, YELLOW CEDAR
- D. PACIFIC COAST SITKA SPRUCE, PONDEROSA PINE, SPRUCE-PINE-FIR
- E. EASTERN WHITE PINE, RED PINE, WESTERN CEDARS, WESTERN WHITE PINE.
2. BEAMS, GIRDERS, JOISTS, RAFTERS, DECK ELEMENTS SHALL HAVE THE FOLLOWING ALLOWABLE UNIT STRESSES:
- | | |
|------------------------------|---------------|
| A. EXTREME FIBER IN BENDING | Fb = 1400 PSI |
| B. TENSION PARALLEL TO GRAIN | Ft = 1000 PSI |
| C. HORIZONTAL SHEAR | Fv=85 PSI |
| D. MODULUS OF ELASTICITY | E=1400000 PSI |
3. ALL STRUCTURAL WOOD SHALL HAVE A MOISTURE CONTENT OF LESS THAN 19%.
4. ALL STRUCTURAL WOOD EXPOSED TO WEATHER SHALL BE PRESSURE TREATED WITH A NON-TOXIC WOOD PRESERVATIVE AS SPECIFIED IN AWPA (AMERICAN WOOD PRESERVERS ASSOCIATION) TREATMENT C1.
5. ALL STRUCTURAL WOOD SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE UBC AND NDS CODES OF PRACTICE, EXCEPT AS MODIFIED IN THESE NOTES.
6. THE FABRICATOR IS RESPONSIBLE FOR THE SHOP DRAWINGS OF ALL CONNECTIONS. CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF THE MEMBERS CONNECTED. CONNECTION DETAILS INDICATED ON THE DRAWINGS SHALL BE INCORPORATED INTO THE FABRICATOR'S CONNECTION DESIGN. ALL SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE FABRICATOR'S ENGINEER WITH THE ENGINEER'S SEAL. ENGINEER'S SEAL MAY BE QUALIFIED "FOR DETAILING OF CONNECTIONS ONLY".
7. SPlicing OF WOOD MEMBERS, UNLESS SHOWN ON THE DRAWINGS IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
8. ALL CONNECTIONS SHALL BE BEARING TYPE UNLESS OTHERWISE SPECIFIED IN PLANS.
9. SHOP DRAWINGS FOR ALL STRUCTURAL WOOD FABRICATION AND ERECTION SHALL BE SUBMITTED TO THE DESIGNER FOR APPROVAL WELL IN ADVANCE OF CONSTRUCTION.
10. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR REVIEW AND APPROVAL OR REJECTIONS, PRIOR TO REMEDIAL OR CORRECTIVE ACTION TO BE IMPLEMENTED.

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	163	181



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JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

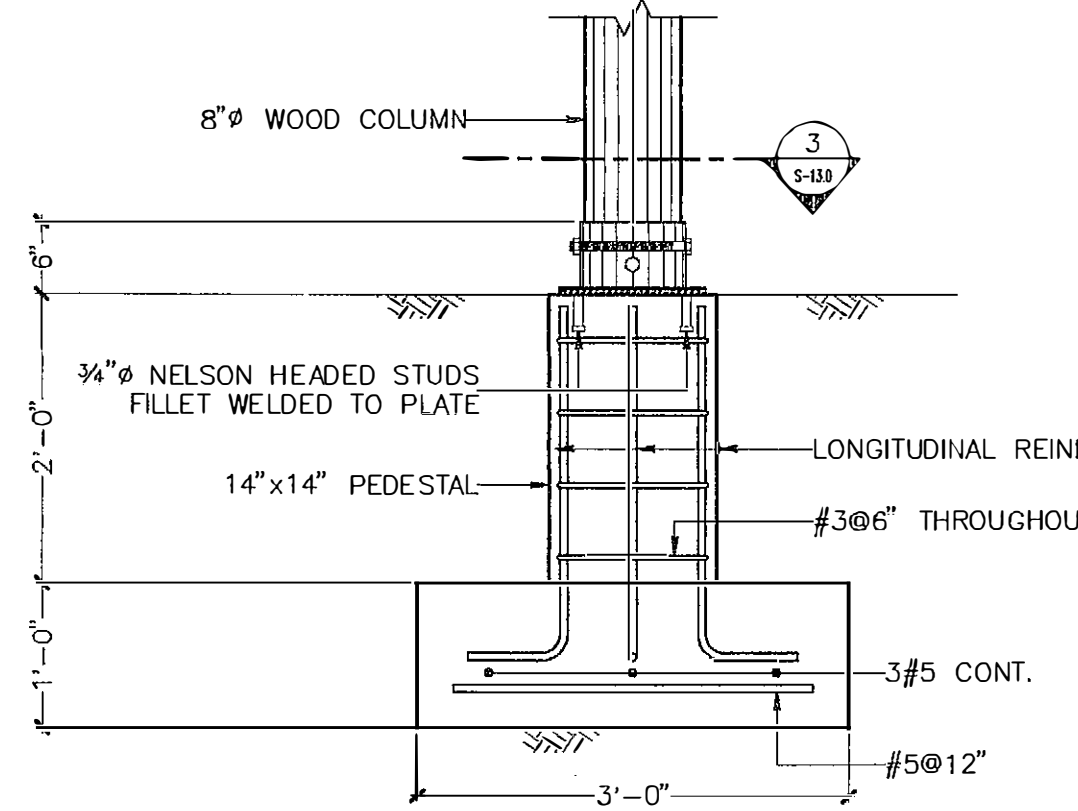
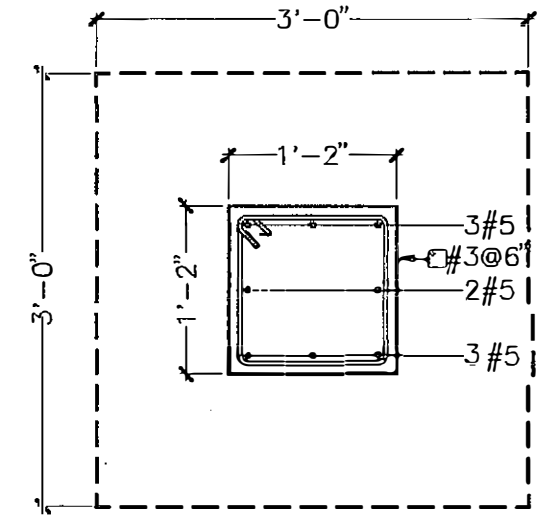
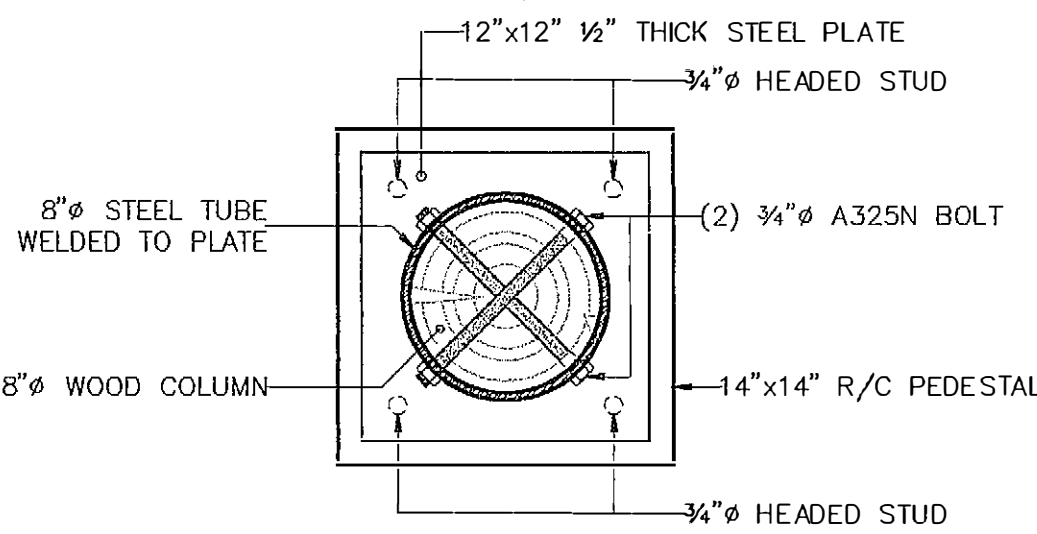
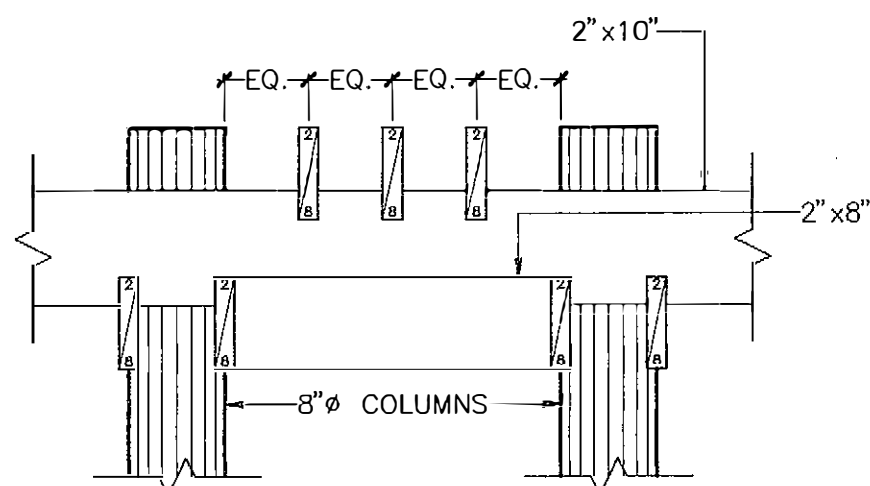
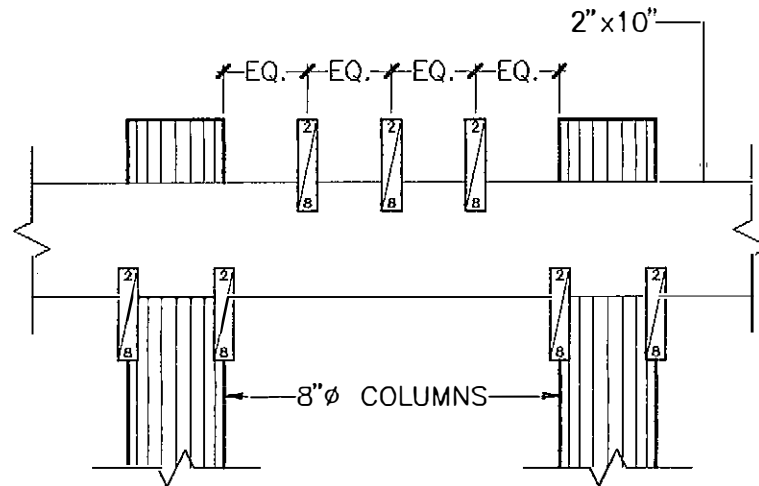
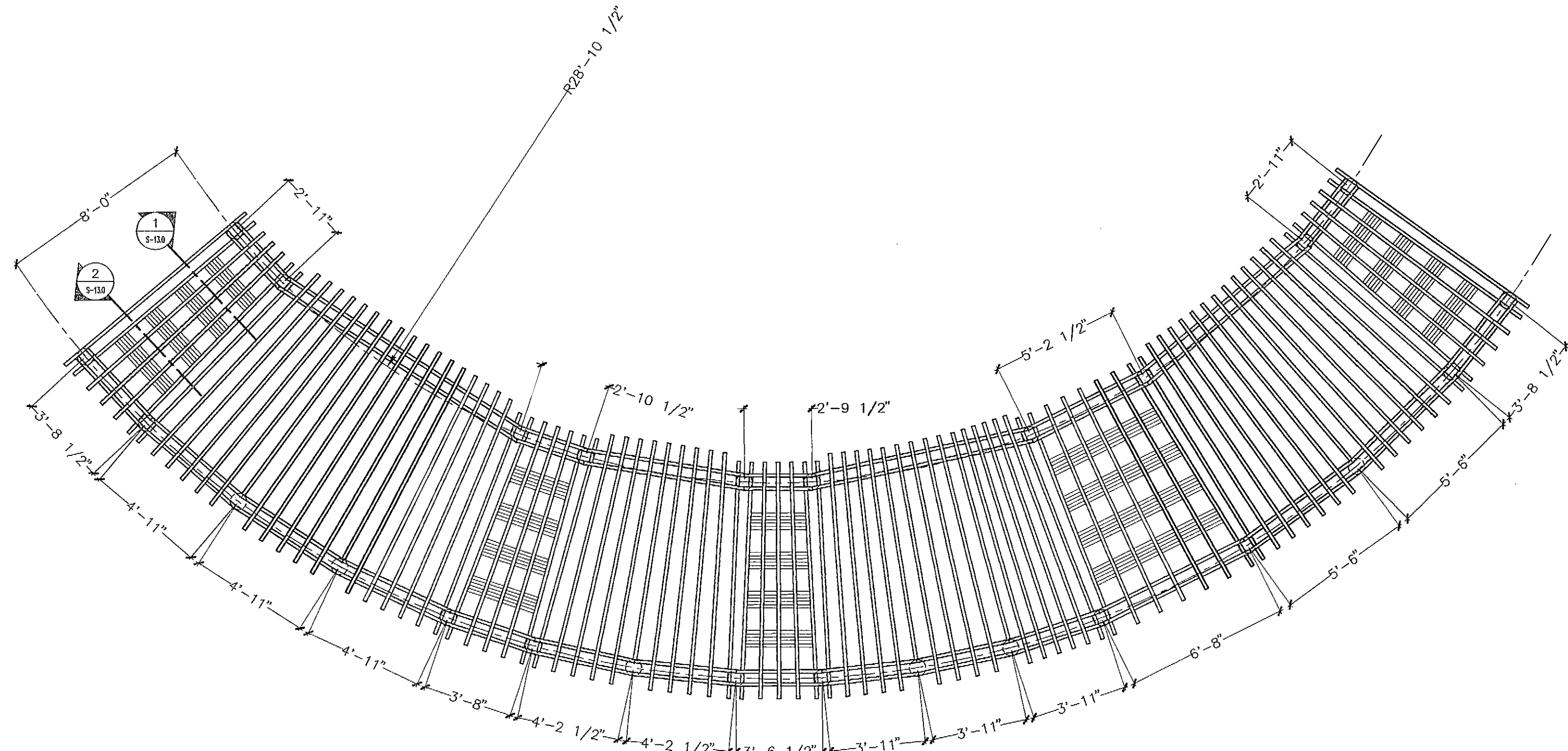
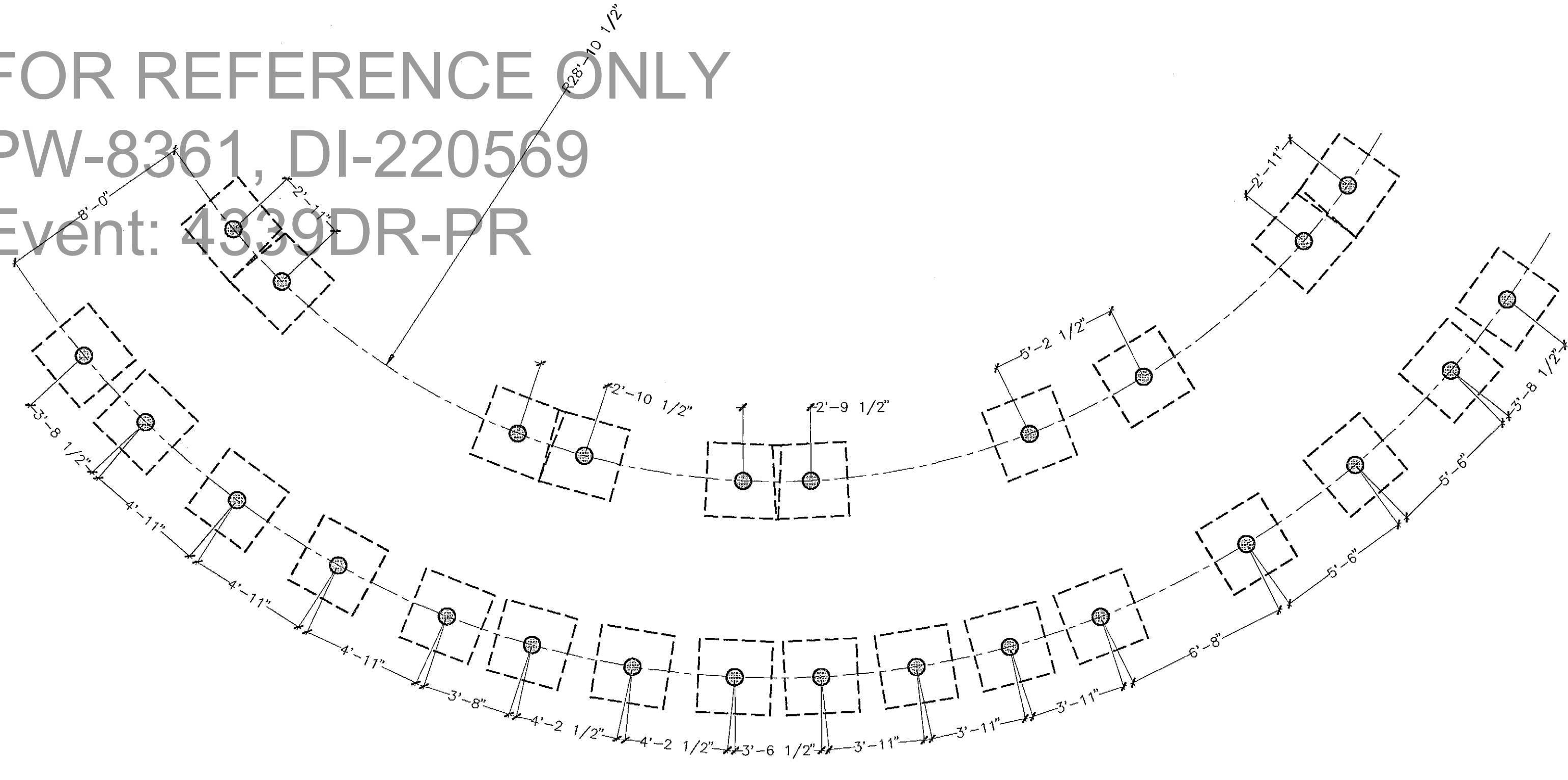
SCALE:
AS SHOWN

GENERAL NOTES

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FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED. AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	164	181



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TRELLIS FRAMING PLAN
SCALE: 1/4"=1'-0"

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

SCALE:
AS SHOWN

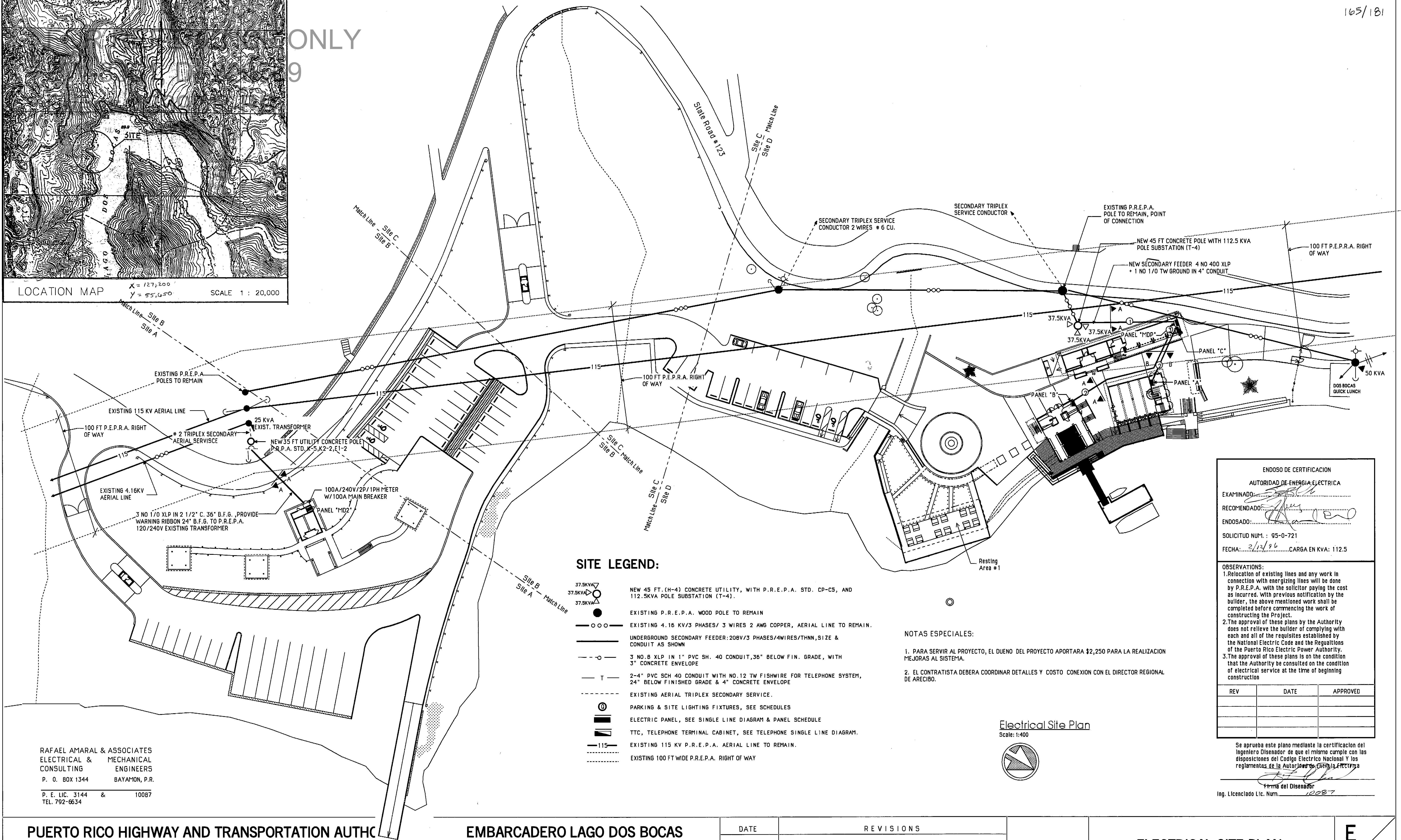
TRELLIS PLANS,
SECTIONS AND DETAILS

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13.0



LOCATION MAP
X = 127,200
Y = 55,450
SCALE 1 : 20,000

ONLY
9



SITE LEGEND:

- NEW 45 FT. (H-4) CONCRETE UTILITY, WITH P.R.E.P.A. STD. CP-CS, AND 112.5KVA POLE SUBSTATION (T-4).
- EXISTING P.R.E.P.A. WOOD POLE TO REMAIN
- EXISTING 4.16 KV/3 PHASES/ 3 WIRES 2 AWG COPPER, AERIAL LINE TO REMAIN.
- UNDERGROUND SECONDARY FEEDER: 208V/3 PHASES/4WIRES/THNN, SIZE & CONDUIT AS SHOWN
- 3 NO. 8 XLP IN 1\"/>

- NOTAS ESPECIALES:
- PARA SERVIR AL PROYECTO, EL DUENO DEL PROYECTO APORTARA \$2,250 PARA LA REALIZACION MEJORAS AL SISTEMA.
 - EL CONTRATISTA DEBERA COORDINAR DETALLES Y COSTO CONEXION CON EL DIRECTOR REGIONAL DE ARECIBO.

ENDOSO DE CERTIFICACION
AUTORIDAD DE ENERGIA ELECTRICA
EXAMINADO: [Signature]
RECOMENDADO: [Signature]
ENDOSADO: [Signature]
SOLICITUD NUM.: 95-0-721
FECHA: 2/12/96 CARGA EN KVA: 112.5

OBSERVATIONS:
1. Relocation of existing lines and any work in connection with energizing lines will be done by P.R.E.P.A. with the solicitor paying the cost as incurred. With previous notification by the builder, the above mentioned work shall be completed before commencing the work of constructing the Project.
2. The approval of these plans by the Authority does not relieve the builder of complying with each and all of the requisites established by the National Electric Code and the Regulations of the Puerto Rico Electric Power Authority.
3. The approval of these plans is on the condition that the Authority be consulted on the condition of electrical service at the time of beginning construction

REV	DATE	APPROVED

Se aprueba este plano mediante la certificacion del Ingeniero Diseñador de que el mismo cumple con las disposiciones del Código Electrico Nacional Y los reglamentos de la Autoridad de Energia Eléctrica

Firma del Diseñador
Ing. Licenciado Lic. Num. 10027

RAFAEL AMARAL & ASSOCIATES
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P. O. BOX 1344 BAYAMON, P.R.
P. E. LIC. 3144 & 100B7
TEL. 792-6634

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHC
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

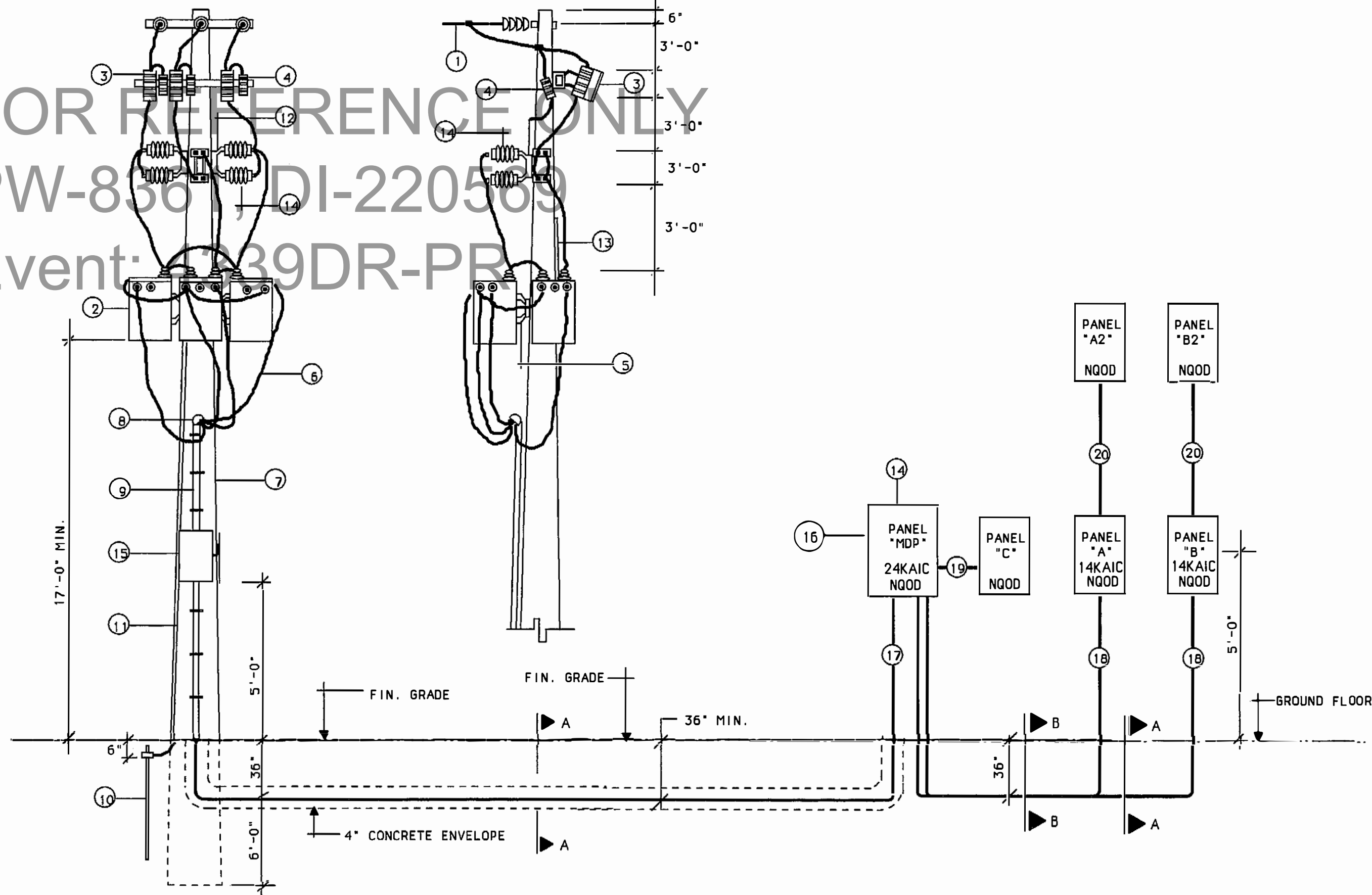
DATE	REVISIONS

SCALE: 1:400

ELECTRICAL SITE PLAN

E
01

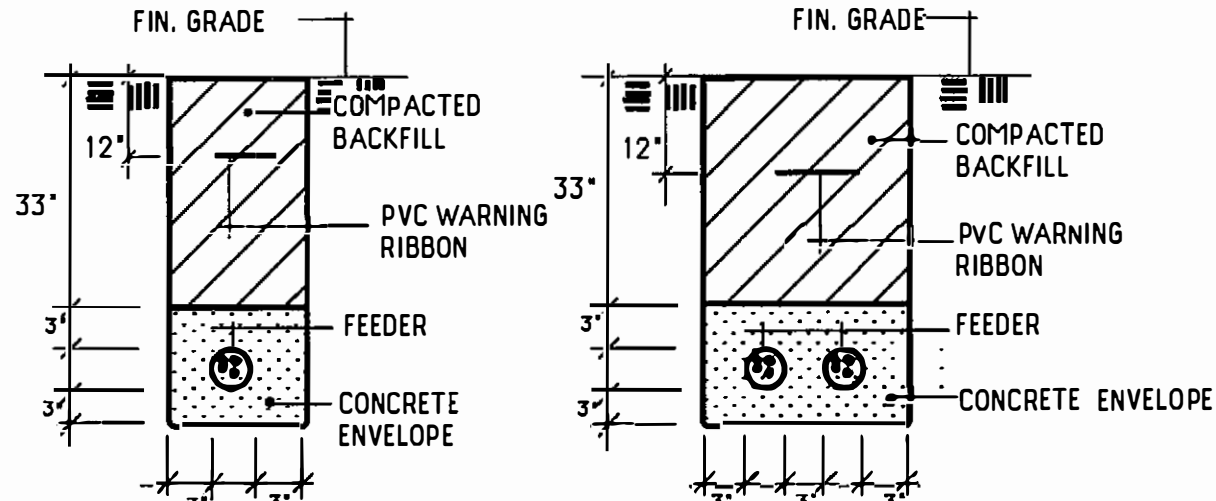
FOR REFERENCE ONLY
PW-836 DI-220569
Event: 39DR-PR



ELECTRICAL SINGLE LINE DIAGRAM

DESCRIPTION:

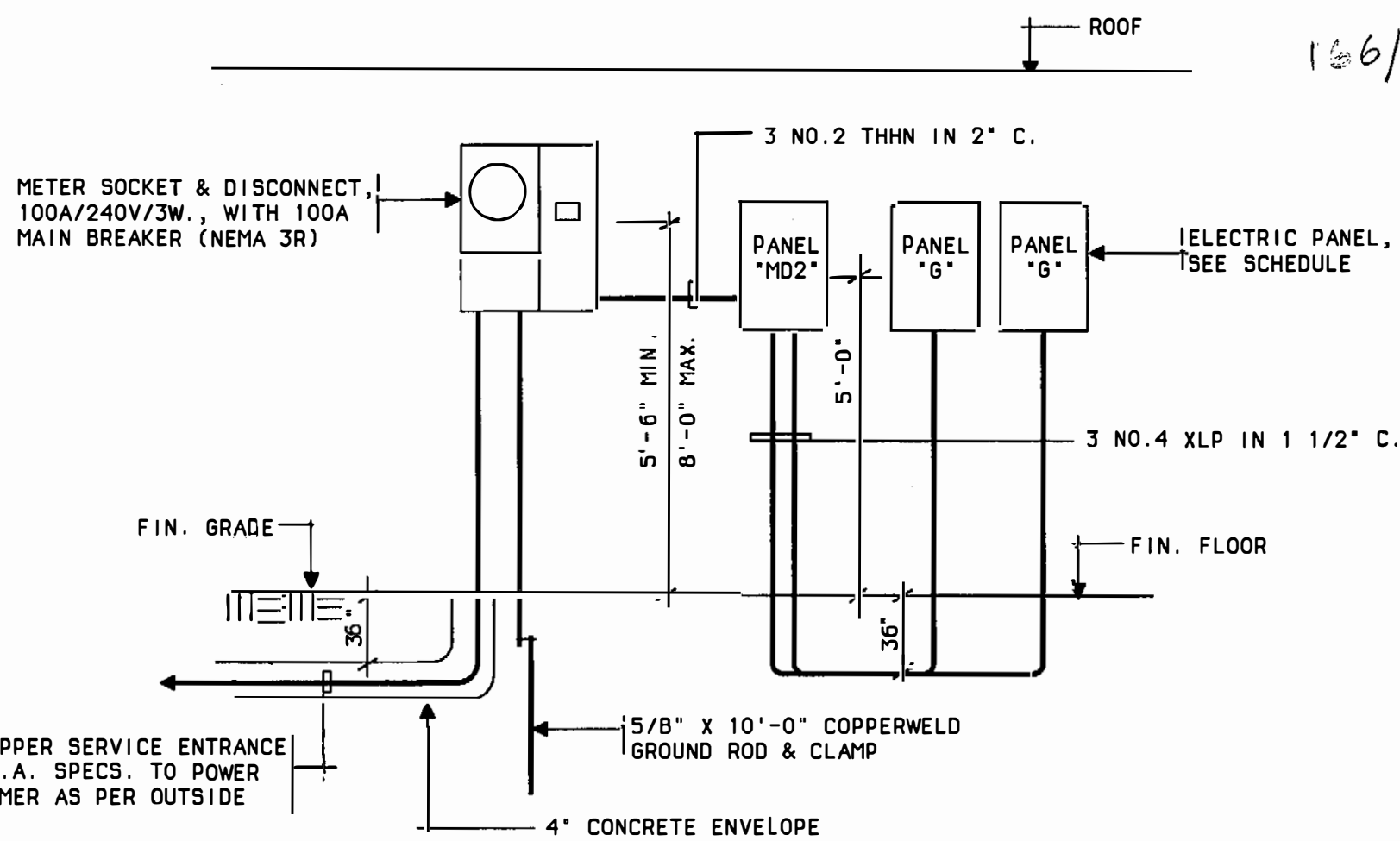
- EXISTING 4.16KV/3 PHASES, 3 WIRES, NO. 2 AWG COPPER AERIAL LINE
- 37.5 KVA 0.1.S.C. DISTRIBUTION TRANSFORMER, 4.16 KV/120-208V WITH 4-2 1/2 % TAPS BELOW RATED VOLTAGE, DELTA-WYE CONNECTION, POLE MOUNTED AS PER P.R.E.P.A. STD. T-3, NON PCB. MAXIMUM SINGLE TRANSFORMER CORE LOOS OF 112W & WINDING LOOS OF 448W, FOR A MAXIMUM TOTAL LOOSES OF 560 WATTS.
- 200A/27KV/25K A.I.C.MIN. 125K BILL VOLTAGE RATED ARC STRANGLER OPEN TYPE FUSE CUT-OUTS WITH 20E FUSES OR AS P.R.E.P.A. REQUIREMENTS.
- 3KV LIGHTNING ARRESTERS, VALVE TYPE
- TRANSFORMER CLUSTER MOUNT AS PER P.R.E.P.A.'S REQUIEMENTS.
- 4 NO.400 MCM XLP SECONDARY CABLES
- REINFORCED CONCRETE UTILITY POLE, 45 FT. HIGH, P.R.E.P.A. STD CP-C1, T-4.
- CONDULET TYPE "F"
- 3 NO.400MCM XLP + 1 NO 1/0 TW IN 4" RIGID CONDUIT
- 3/4" X 10 FT. COPPERWELD GROUND ROD & CLAMP, 6" BELOW FINISHED GRADE
- POLE GROUNDING ASSEMBLY AS PER P.R.E.P.A. STD. M2-1.
- CLUSTER MOUNTING FOR PT'S & CT'S MOUNTING
- SECONDARY RISER OF METERING EQUIPMENT
- PT'S & CT'S OUTDOOR TYPE BY P.R.E.P.A., RACK BY CONTRACTOR
- 400A/250V/3 POLES/SN/NEMA 3R/HEAVY DUTY SAFETY SWITCH WITH PADLOCK PROVISIONS, PROVIDE 300A C.L. FUSES
- 400A/120-208V/ 3PHASES/4 WIRES ELECTRIC PANEL
- 4 NO 400 MCM THHN + GROUND IN 4" CONDUIT.
- 4 NO 1/0 THHN + GROUND IN 2" CONDUIT.
- 4 NO 2 THHN + GROUND IN 1 1/2" CONDUIT.
- 4 NO 4 THHN + GROUND IN 1 1/4" CONDUIT.



SECTION "A - A"

SECTION "B - B"

3 NO.1/0 TYPE TTU COPPER SERVICE ENTRANCE CABLE AS PER P.R.E.P.A. SPECS. TO POWER PEDESTAL OR TRANSFORMER AS PER OUTSIDE DISTRIBUTION PLANS.



ELECTRICAL SINGLE LINE FOR SECONDARY SERVICE

P.R.E.P.A.'S NOTES

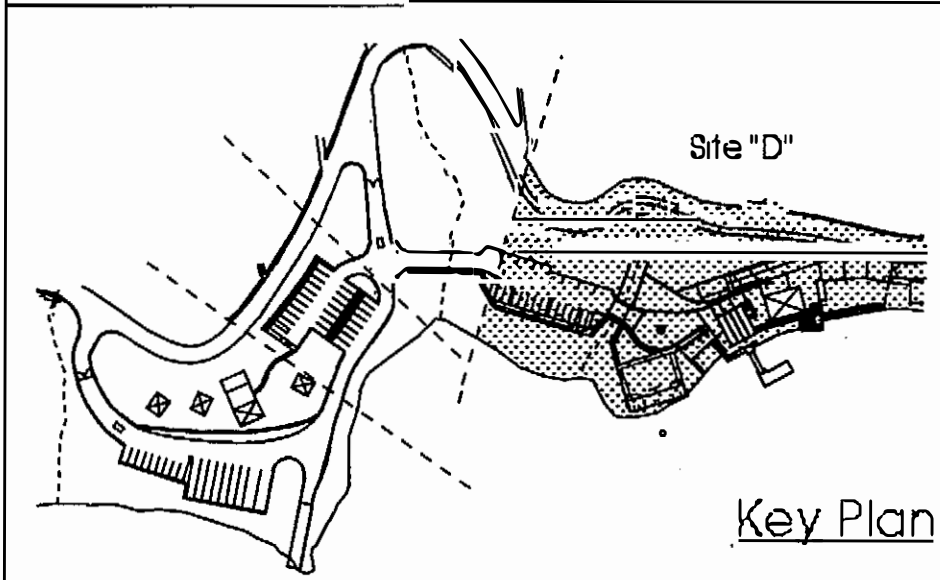
- ALL WORK ON EXISTING LINES SHALL BE DONE BY P.R.E.P.A. AT CONTRACTOR'S EXPENSE.
- COORDINATE THE EXACT POINT OF CONNECTION AT P.R.E.P.A.'S LOCAL OFFICE BEFORE CONSTRUCTION BEGINS.
- THERE SHALL BE NO WATER OR SEWAGE LINES UNDER THE FLOOR OF THE TRANSCLOSURE.
- ALL EQUIPMENT SHALL BE CONSTRUCTED AND INSTALLED ACCORDING TO A.R.P.E., C.E.N., A.N.S.I., N.E.M.A. & P.R.E.P.A.'S STANDARDS.
- INSTALL APPROVED PRE-FABRICATED STRESS RELIEF CONES AT ALL PRIMARY CABLE TERMINATIONS.
- CONTRACTOR SHALL SUPPLY ONE SPARE FUSE FOR EACH PRIMARY FUSE HOLDER.
- BLADES OR FUSES RUN SHALL ALWAYS CLEAR AT LEAST SIX (6) INCHES FROM METAL HOLDERS.
- OPEN BLADES OR FUSES OF PRIMARY SWITCH SHALL BE DE-ENERGIZED.
- ALL CONSTRUCTION WORK SHALL BE DONE IN A THOROUGH & WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS, A.R.P.E., C.E.N., A.N.S.I., SPECIFICATIONS & CONSTRUCTION DRAWINGS. THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE SHALL BE FOLLOWED EXCEPT WHERE LOCAL REGULATIONS ARE MORE STRINGENT, IN WHICH CASE, LOCAL REGULATIONS SHALL GOVERN.
- P.R.E.P.A. APPROVAL OF THESE PLANS APPLY ONLY TO ELECTRICAL LINES & EQUIPMENT PRECEDING THE METERING EQUIPMENT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY P.R.E.P.A.'S AREA OFFICE WHEN CONSTRUCTION BEGINS.
- THE CONTRACTOR SHALL VERIFY THE PRIMARY VOLTAGE SERVICING THE PROJECT BEFORE BUYING THE PRIMARY EQUIPMENT & CABLES.
- THE PRIMARY CABLES SHAL BE HI-TESTED AFTER PRE-FABRICATED STRESS RELIEF CONES ARE INSTALLED AT ALL TERMINALS AS PER P.R.E.P.A.'S REGULATIONS.
- ALL METERING EQUIPMENT SHALL BE ACCESSIBLE AT ALL TIMES TO P.R.E.P.A.'S PERSONNEL.
- CONTRACTOR SHALL INSTALL ADEQUATE SIEZE TERMINAL LUGS FOR TRANSFORMER'S SECONDARY BUSHINGS.
- CONCRETE BASES FOR THE INSTALLATION OF TRANSCLOSURE SHALL BE COORDINATED & CONSTRUCTED SO AS TO PROVIDE SUFFICIENT CLEARANCE BETWEEN CONDUIT TERMINATION & TRANSCLOSURE CABLE TERMINALS, FOR MINIMUM BENDING RADIUS REQUIRED BY SHIELDED CABLES & STRESS CONES.
- MAXIMUM RESISTANCE TO GROUND SHALL NOT BE GREATER THAN TEN (10) OHMS.
- P.R.E.P.A. WILL NOT ENERGIZE THE FINAL ELECTRICAL WORK UNTIL ALL RIGHT OF WAYS ARE DULY CEDED AND CERTIFIED BY P.R.E.P.A.'S LEGAL DIVISION. THIS NOTE APPLIES TO RIGHT OF WAYS WITHIN AND OUTSIDE THE BOUNDARIES OF THE PROJECT.
- ANY CUSTOMER DEMANDING MORE THAN 50 KVA SHALL BE BILLED ACCORDING TO PRIMARY RATE GSP-1 BY APPLYING A FIXED PERCENTAGE OF TRANSFORMATION LOSSES TO THE CONSUMPTION AND DEMAND METERED IN THE SECONDARY SIDE.
- THE CONTRACTOR SHALL COORDINATE WITH P.R.E.P.A. BEFORE CASTING THE BASES OF THE SELF-SUPPORTED POLES.
- ANY RELOCATION SHALL BE EQUAL OR BETTER THAN THE EXISTING ONE IN ACCORD TO THE LATEST ENFORCED STANDARDS.
- THE CONTRACTOR SHALL PROVIDE TWO SPARE 4" RIGID GALVANIZED CONDUITS CAPPED ON BOTH ENDS FOR THE SELF-SUPPORTED POLES.
- THE ELECTRICAL EQUIPMENT AT THE PREMISES SHALL REMAIN THE OWNER'S PROPERTY AND SHALL BE OPERATED AND MAINTAINED BY THE OWNER.
- TODA CONSTRUCCION ELECTRICA DEBERA SER CERTIFICADA E INSPECCIONADA PREVIO A LA CONEXION AL SISTEMA ELECTRICO DE LA A.E.E. POR UN INSPECTOR AUTORIZADO DE ACUERDO A LA LEY DE CERTIFICACIONES (LEY NUM. 7 JULIO DE 1985).
- EN EL AREA DE RODAJE, LOS CONDUCTOS SERAL EMPOTRADOS EN HORMIGON; DE LO CONTRARIO SE UTILIZARA ARENA.
- EN AQUELLOS LUGARES DONDE LOS CONDUCTOS PVC PARA LINEAS ELECTRICAS SE CRUCEN CON CONDUCTOS PARA OTROS SERVICIOS, EL CONTRATISTA DEBERA TOMAR LAS SIGUIENTES PRECAUCIONES:
 - LOS CONDUCTOS PARA LINEAS ELECTRICAS SE INSTALARAN DEBAJO DE LOS CONDUCTOS PARA OTROS SERVICIOS, DE FORMA TAL QUE EN NINGUN LUGAR LAS LINEAS ELECTRICAS QUEDEN A UNA PROFUNDIDAD MENOR DE CUATRO PIES (4').
 - DEBERA HABER UNA DISTANCIA DE SEPARACION NO MENOR DE TRECE PULGADAS (13") ENTRE LOS CONDUCTOS PARA LINEAS ELECTRICAS Y LOS CONDUCTOS DE OTROS SERVICIOS.
 - LOS CONDUCTOS PARA LINEAS ELECTRICAS SERAN INSTALADOS EN UNA ENVOLTURA DE HORMIGON DE TRES PULGADAS (3").
- CUANDO EL PROYECTO ESTE UBICADO A MENOS DE UNA (1) MILLA DE LA PLAYA U OTRO CUERPO DE AGUA SALADA, DEBERAN OBSERVARSE LAS NORMAS ESPECIALES PARA LOS EQUIPOS A INSTALARSE.
- LOS ESTANDARES DE CONRUCCION AEREOS Y/O SOTERRADOS DEMOSTRADOS EN LOS PLANOS SON PARA INFORMACION Y REFERENCIA SOLAMENTE. LOS MISMOS PUEDEN VARIAR DE ACUERDO CON LAS CONDICIONES EN EL TERRENO Y/O LOS REQUISITOS DE LA A.E.E. CUALQUIER VARIACION DEBERA SER APROBADA POR Y REALIZADA EN COORDINACION CON LA A.E.E.
- TODOS LOS CONDUCTORES SOTERRADOS Y/O CABLES SERAN INSPECCIONADOS POR PERSONAL DE LA A.E.E. ANTES DE CUBRIR LA TRINCHERA HECHA PARA INSTALAR LOS MISMOS.
- EL CONTRATISTA ELECTRICISTA COORDINARA CO EL DEPARTAMENTO DE OBRAS PUBLICAS O CARRETERAS ELECTRICAL & MECHANICAL CONSULTING ENGINEERS CORRESPONDIENTE, EL CRUCE DE LINEAS AEREAS Y/O SOTERRADAS SOBRE O BAJO AVENIDAS, CERRETERA Y/O CONDUITS.

W. F. DE MARAL & ASSOCIATES
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TEL. 792-6634

ENDOSO DE CERTIFICACION		
AUTORIDAD DE ENERGIA ELECTRICA		
EXAMINADO:	RECOMENDADO:	
ENDOSADO:	SOLICITUD NUM1.: 95-0-721	
FECHA: 2/12/86 CARGA EN KVA: 112.5		
OBSERVATIONS: 1. Relocation of existing lines and any work in connection with energizing lines will be done by P.R.E.P.A. with the solicitor paying the cost as incurred. With previous notification by the builder, the above mentioned work shall be completed before commencing the work of constructing the Project. 2. The approval of these plans by the Authority does not relieve the builder of complying with each and all of the requisites established by the National Electric Code and the Regulations of the Puerto Rico Electric Power Authority. 3. The approval of these plans is on the condition that the Authority be consulted on the condition of electrical service at the time of beginning construction		
REV	DATE	APPROVED

Se aprueba este plano mediante la certificacion del Ingeniero Diseñador de que el mismo cumple con las disposiciones delCodigo Electrico Nacional y los reglamentos de la Autoridad de Energia Electrica

Firma del Diseñador
Ing. Licenciado Lic. Num. 10087



Key Plan

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

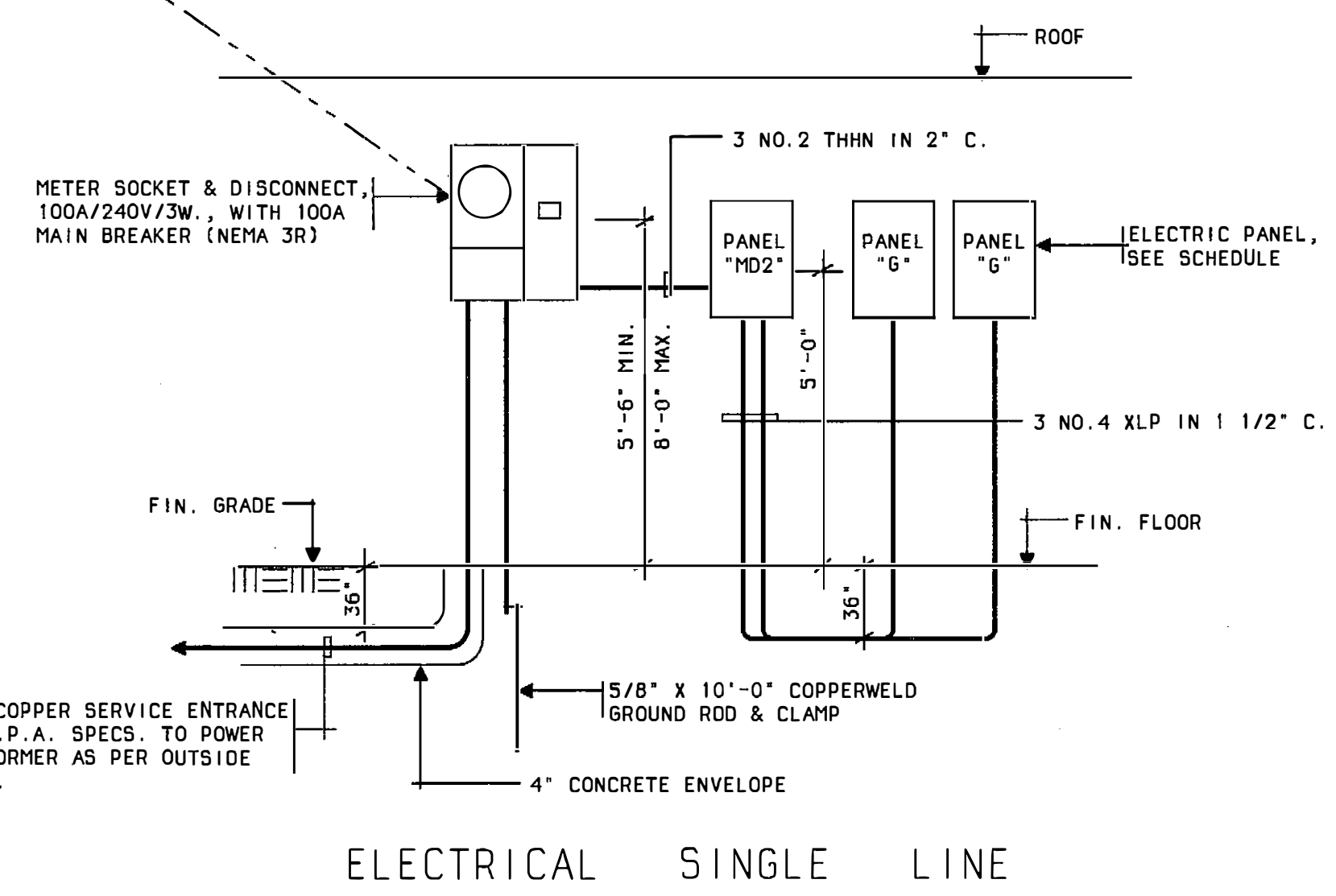
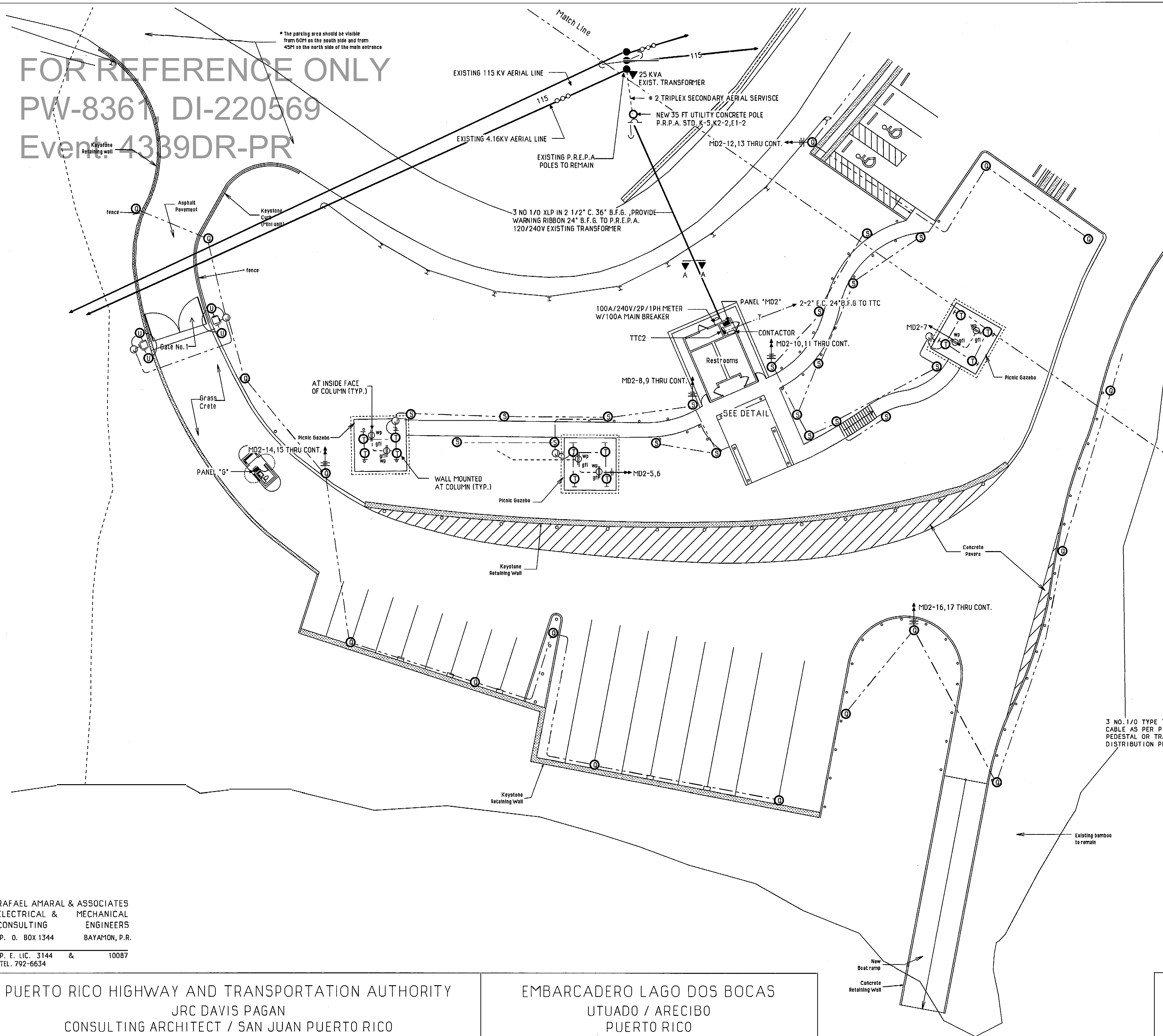
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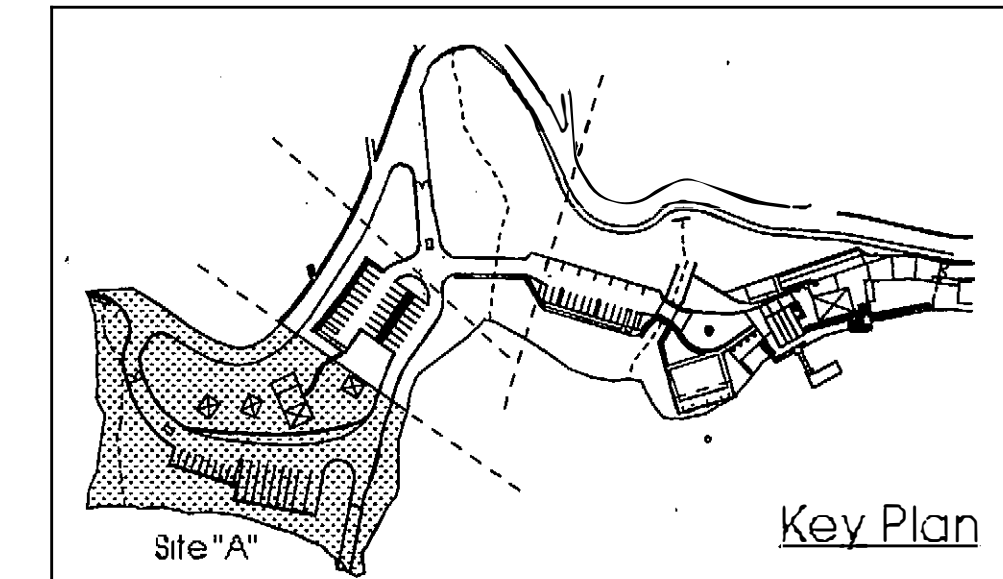
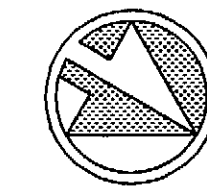
ELECTRICAL SUBSTATION

E
02

FOR REFERENCE ONLY
PW-8361 DI-220569
Event: 4339DR-PR



Site Plan (A)
Scale: 1:200



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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

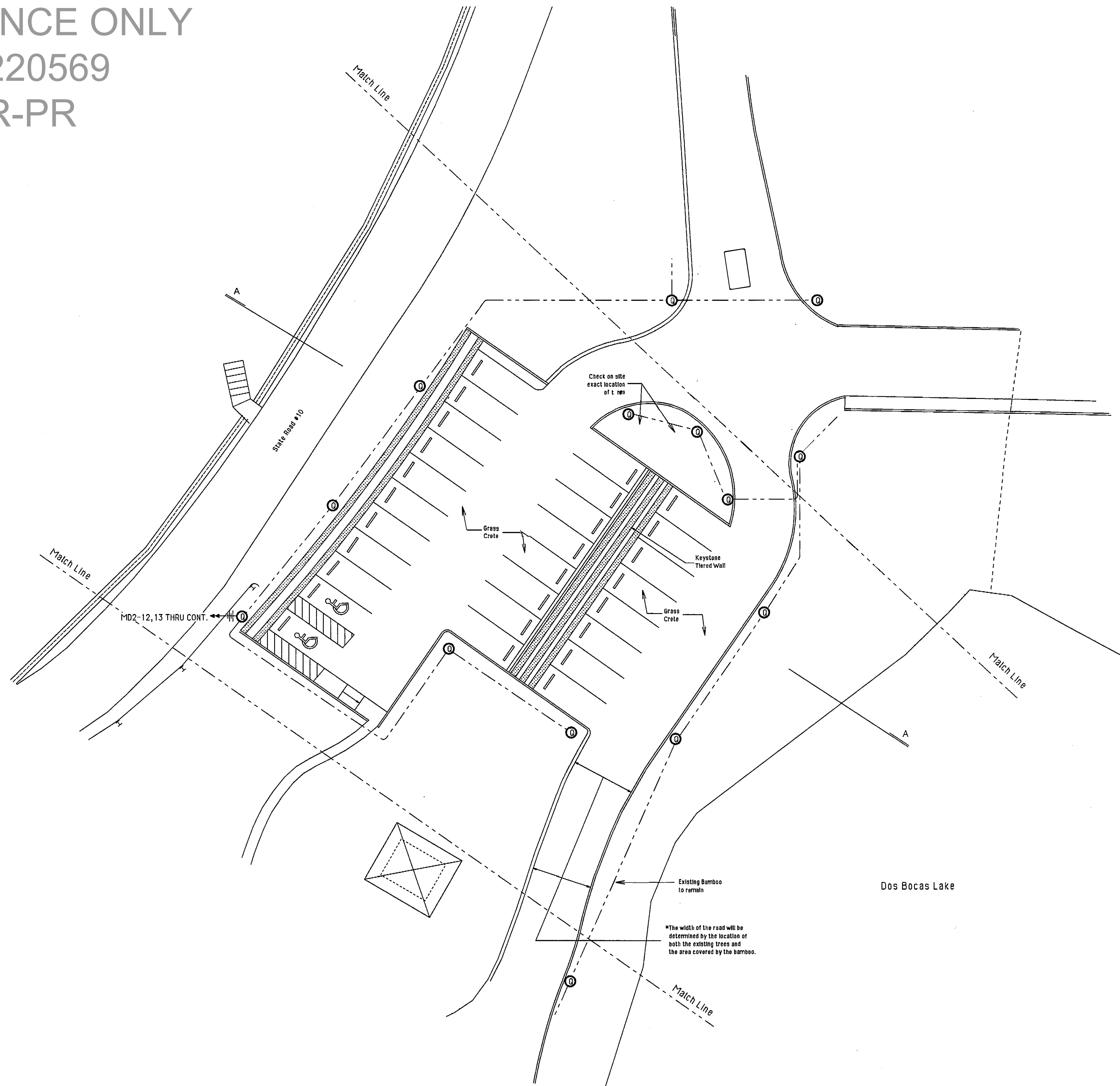
EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

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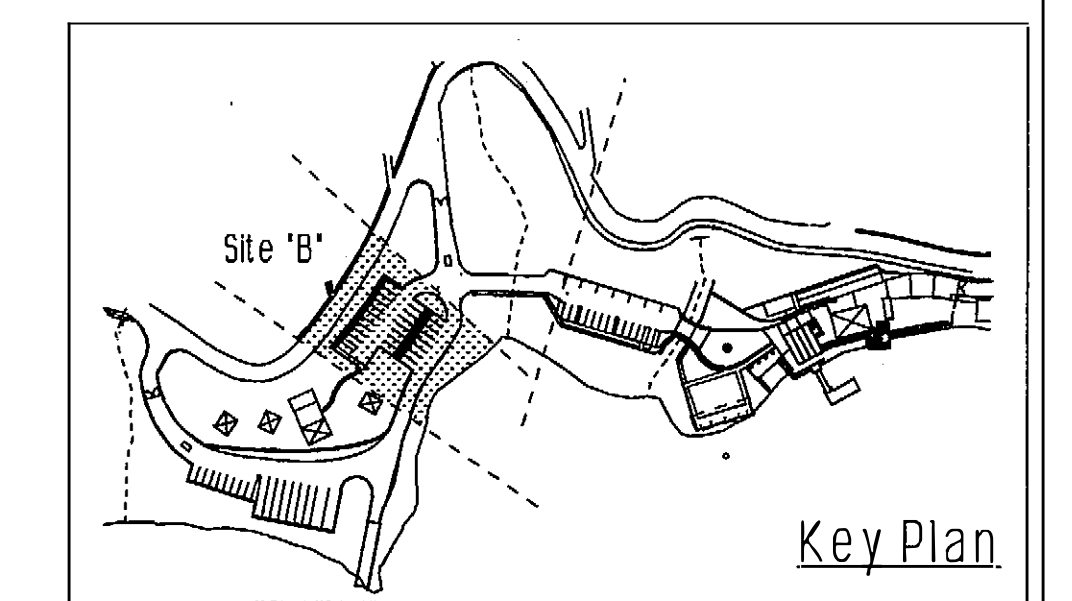
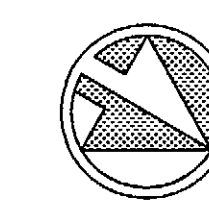
ELECTRICAL SITE PLAN (A)

E
03

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



Site Plan (B)
Scale: 1:200



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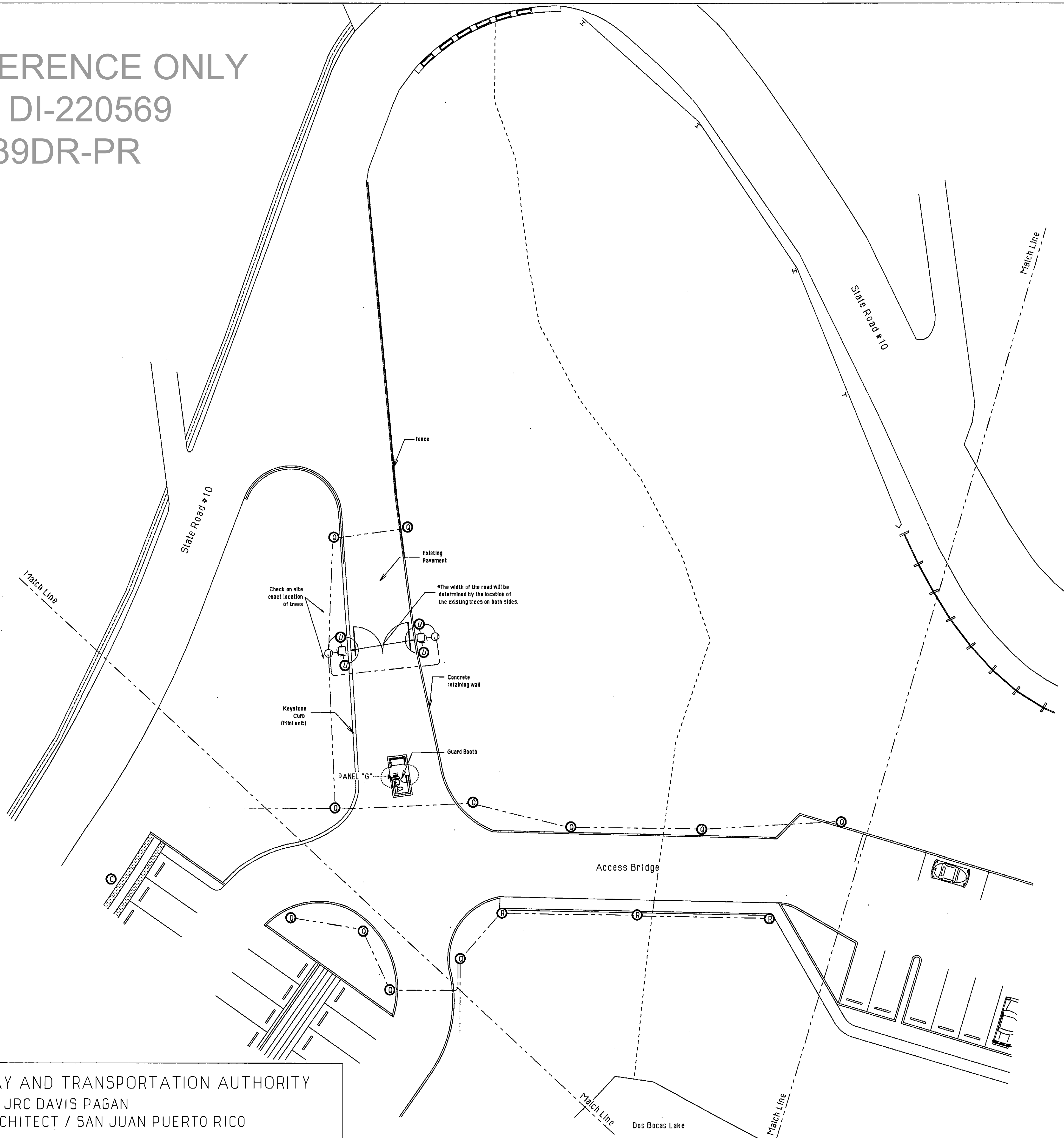
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ELECTRICAL SITE PLAN (B)

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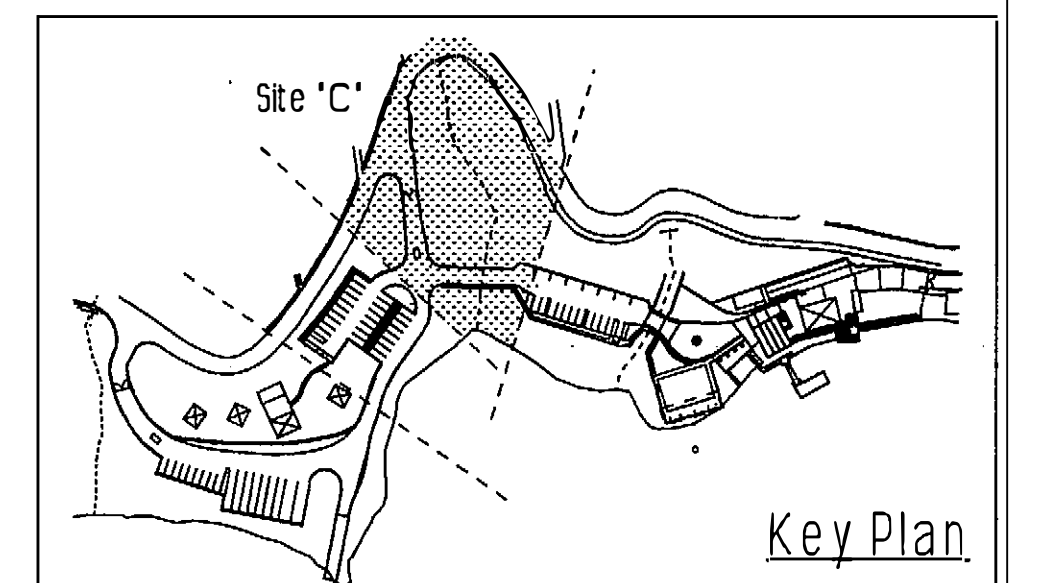
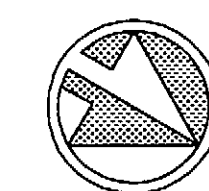
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PW-8361, DI-220569
Event: 4339DR-PR



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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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Site Plan (C)
Scale: 1:200



SCALE: 1:200

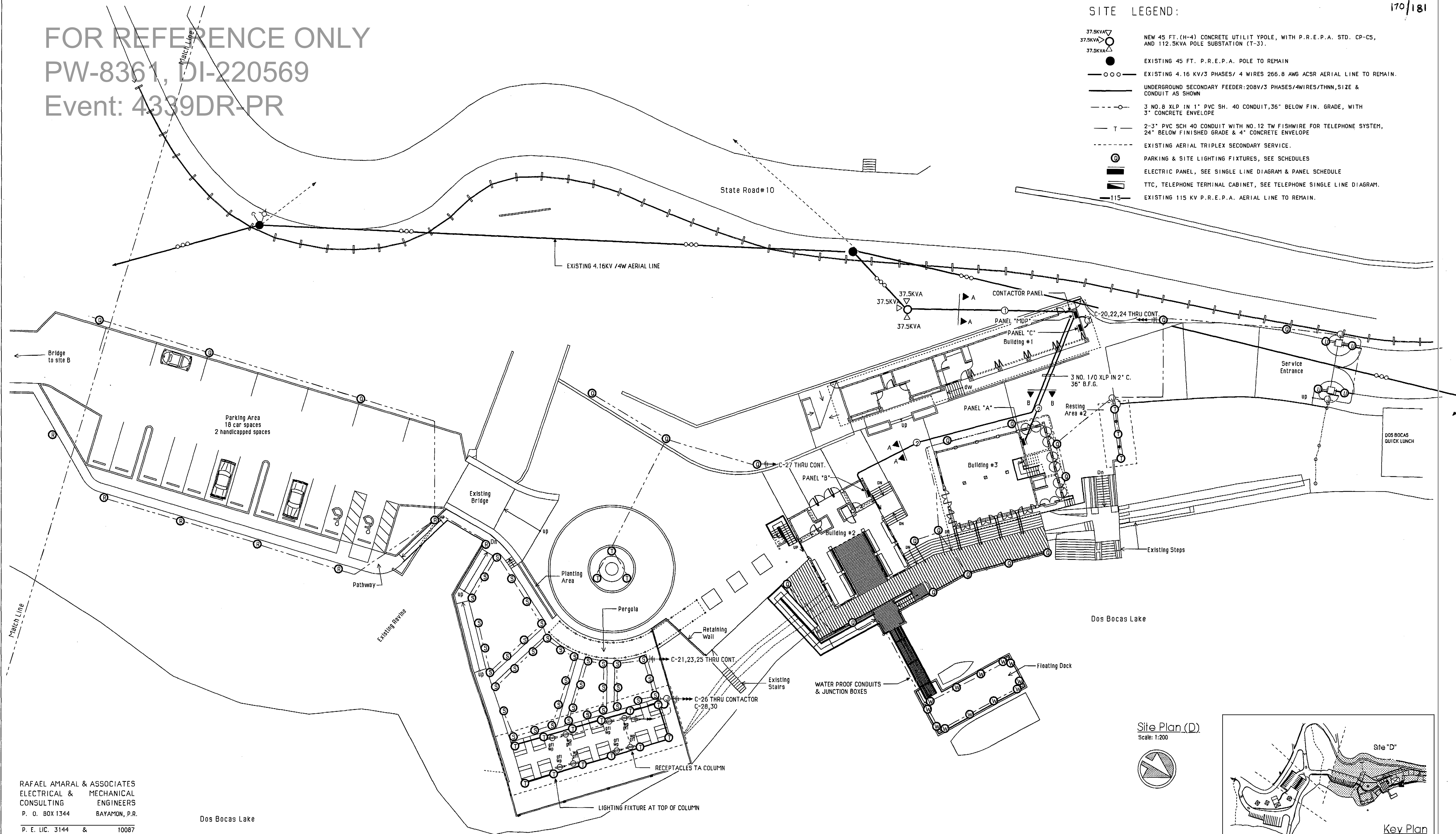
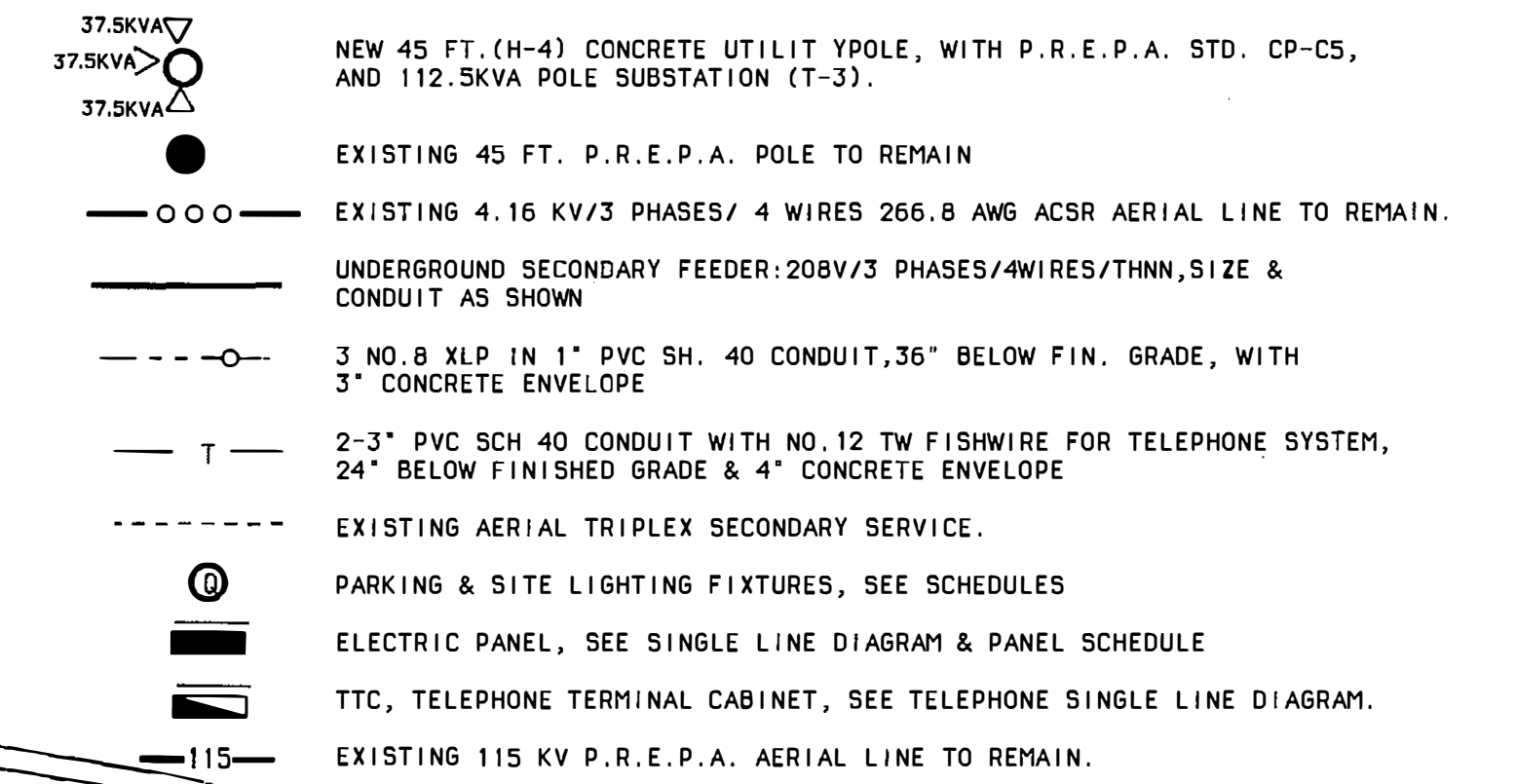
ELECTRICAL SITE PLAN (C)

E
05

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PW-8361, DI-220569
Event: 4339DR-PR

SITE LEGEND:

170/181



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Dos Bocas Lake

PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
JRC DAVIS PAGAN
CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

DATE _____

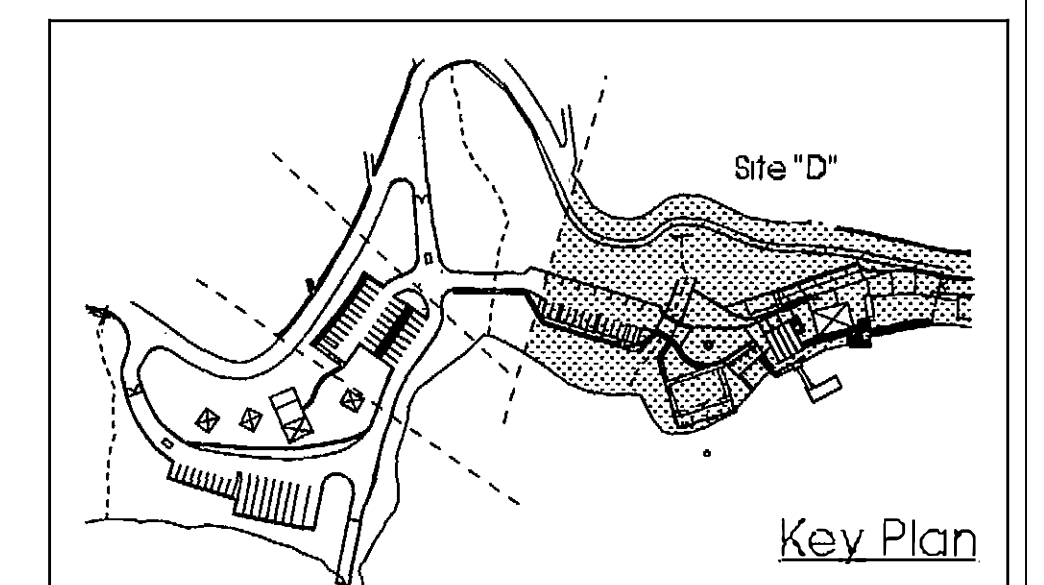
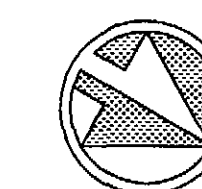
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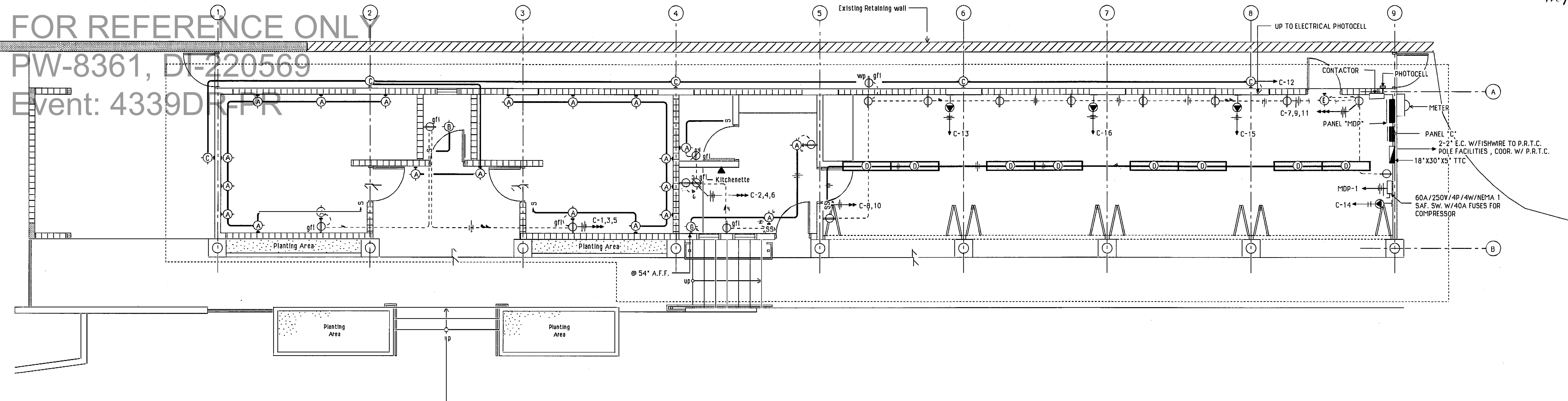
ELECTRICAL SITE PLAN (D)

F

06



FOR REFERENCE ONLY
PW-8361, DT-220569
Event: 4339DR-FR



Electrical Floor Plan /Building A
Restrooms & Warehouse
Scale: 1/4" = 1'-0"

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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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PUERTO RICO

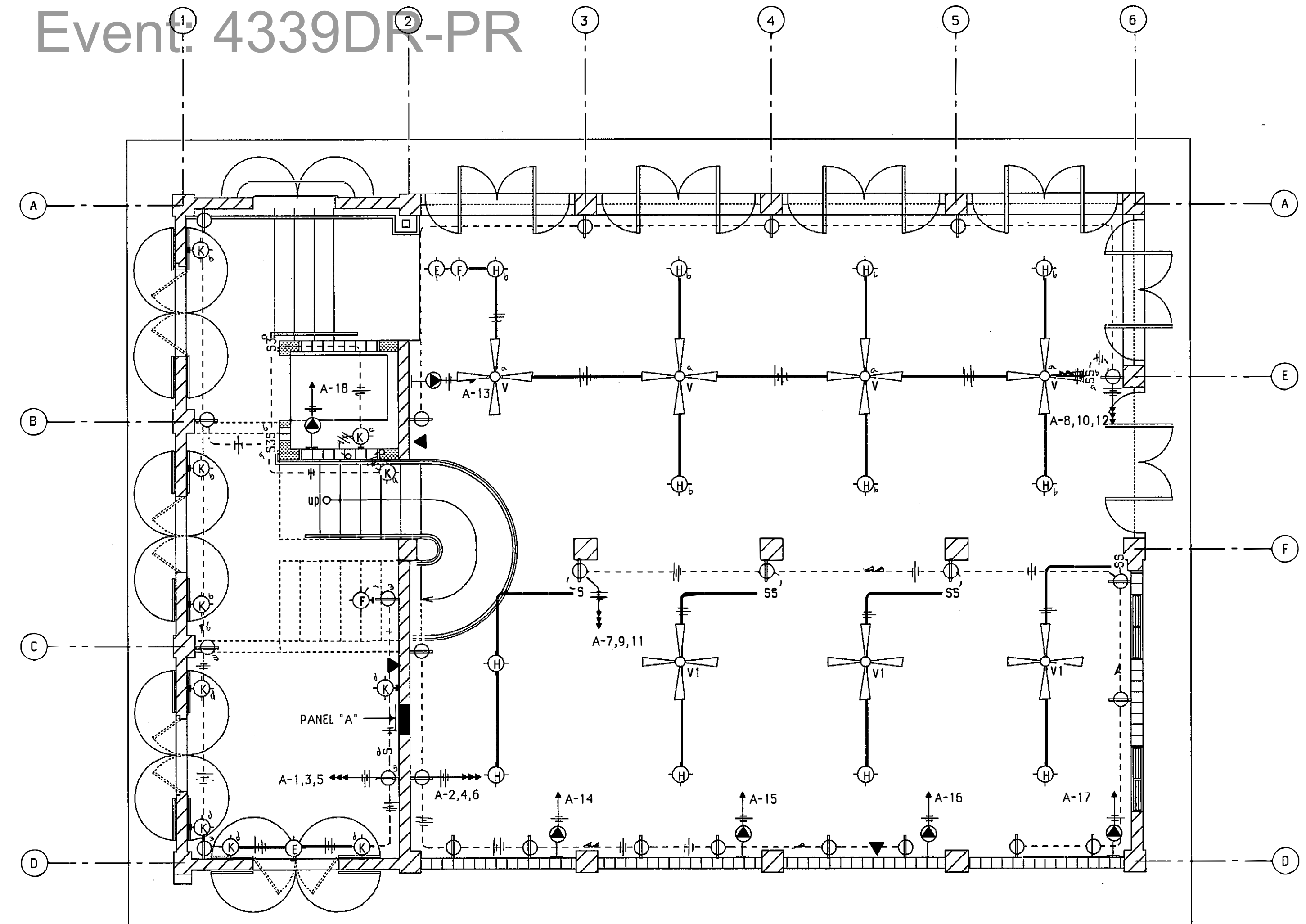
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SCALE: 1/4" = 1'-0"

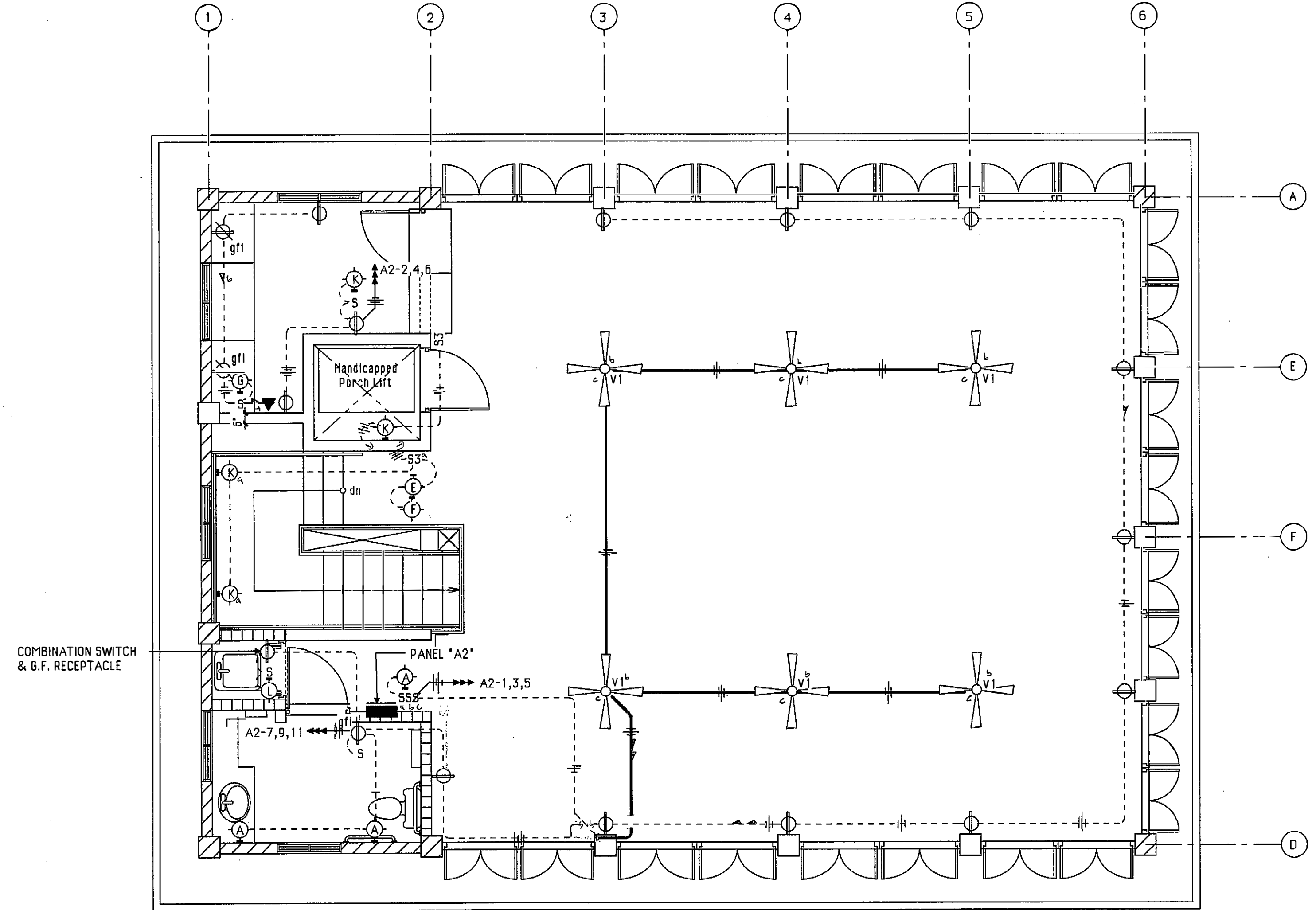
Electrical Floor Plan
Building #1

E
07

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



Electrical 1st Floor Plan
Building #3
Scale: 1/4"=1'-0"



Electrical 2nd Floor Plan
Building #3
Scale: 1/4"=1'-0"

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PUERTO RICO

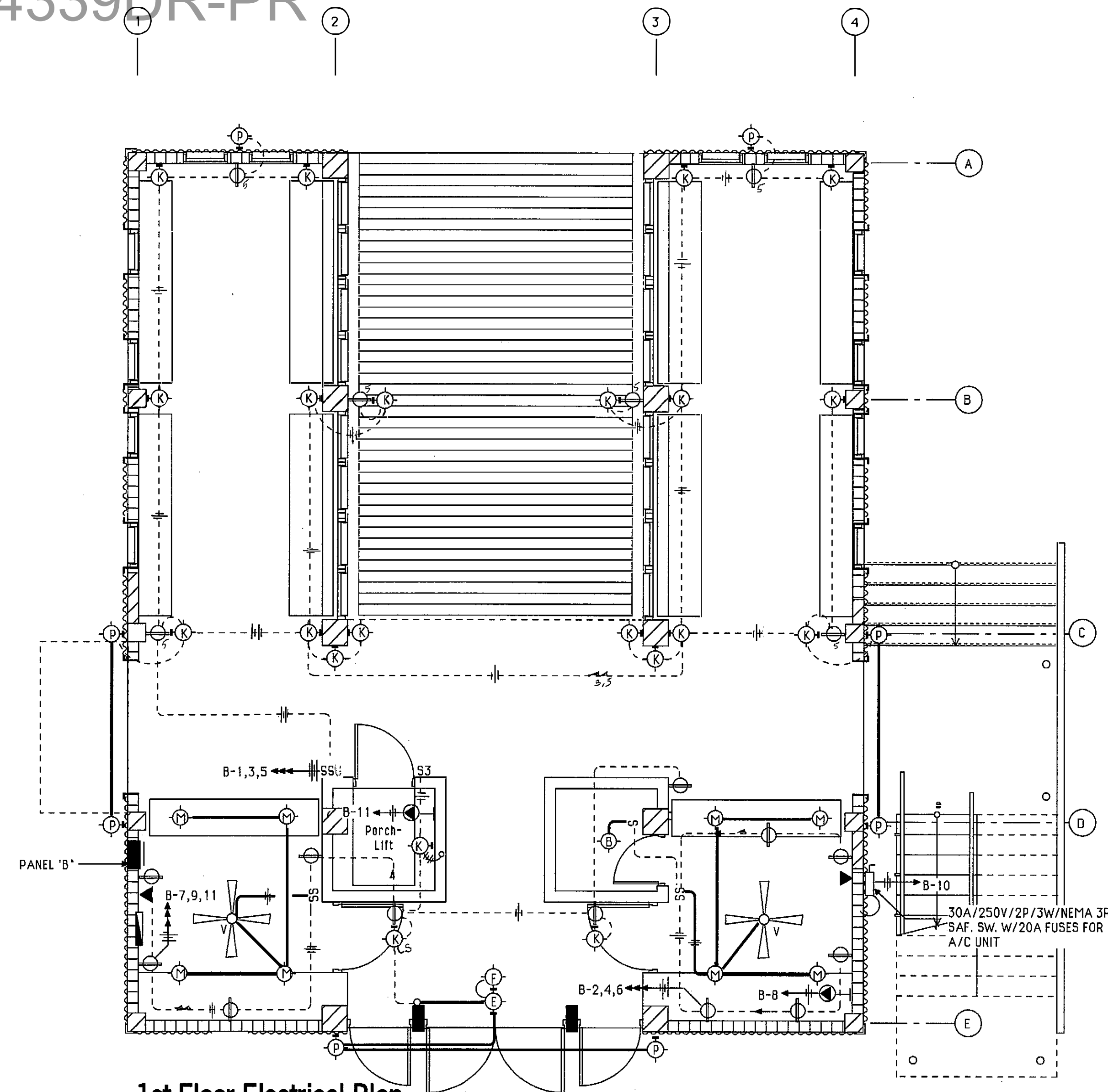
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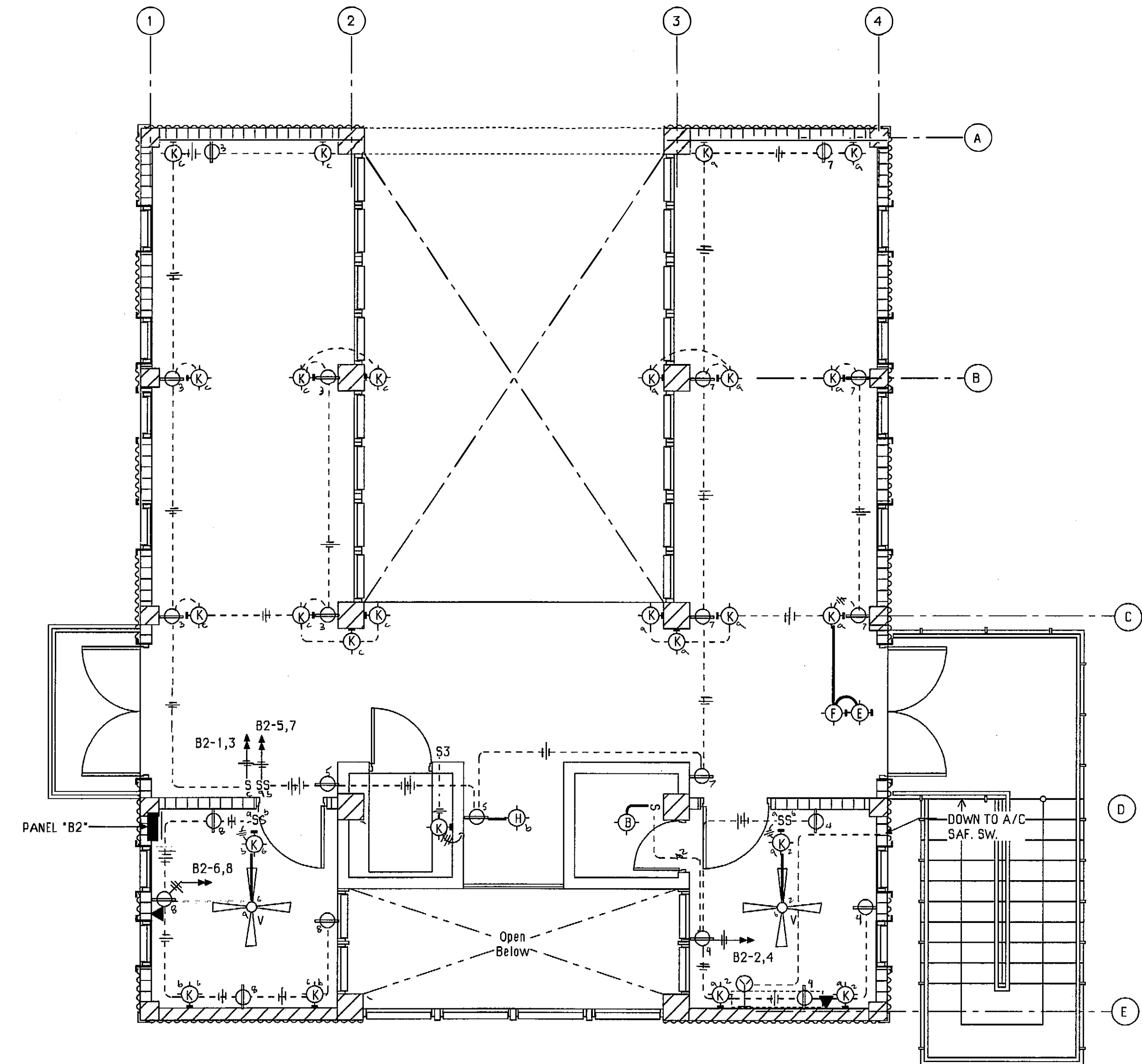
1st & 2nd Floor Electrical Plan
Building #3

E
08

FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR



1st Floor Electrical Plan
Building #2
Scale: 1/4"=1'-0"



2nd Floor Electrical Plan
Building #2
Scale: 1/4"=1'-0"

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P.E. LIC. 3144 & 10087
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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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EMBARCADERO LAGO DOS BOCAS
UTUADO / ARECIBO
PUERTO RICO

DATE	REVISIONS

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

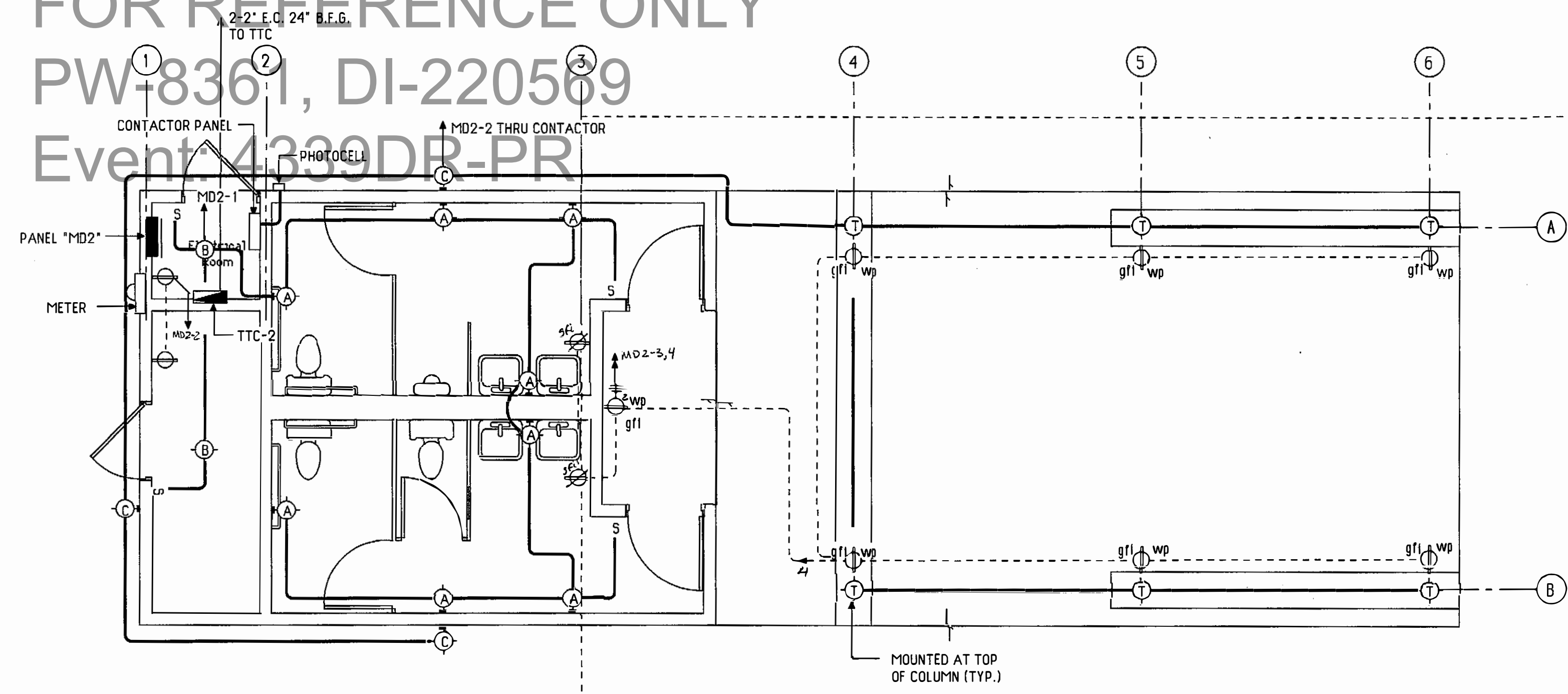
1st & 2nd Floor Electrical Plan
Building #2

E
09

FOR REFERENCE ONLY

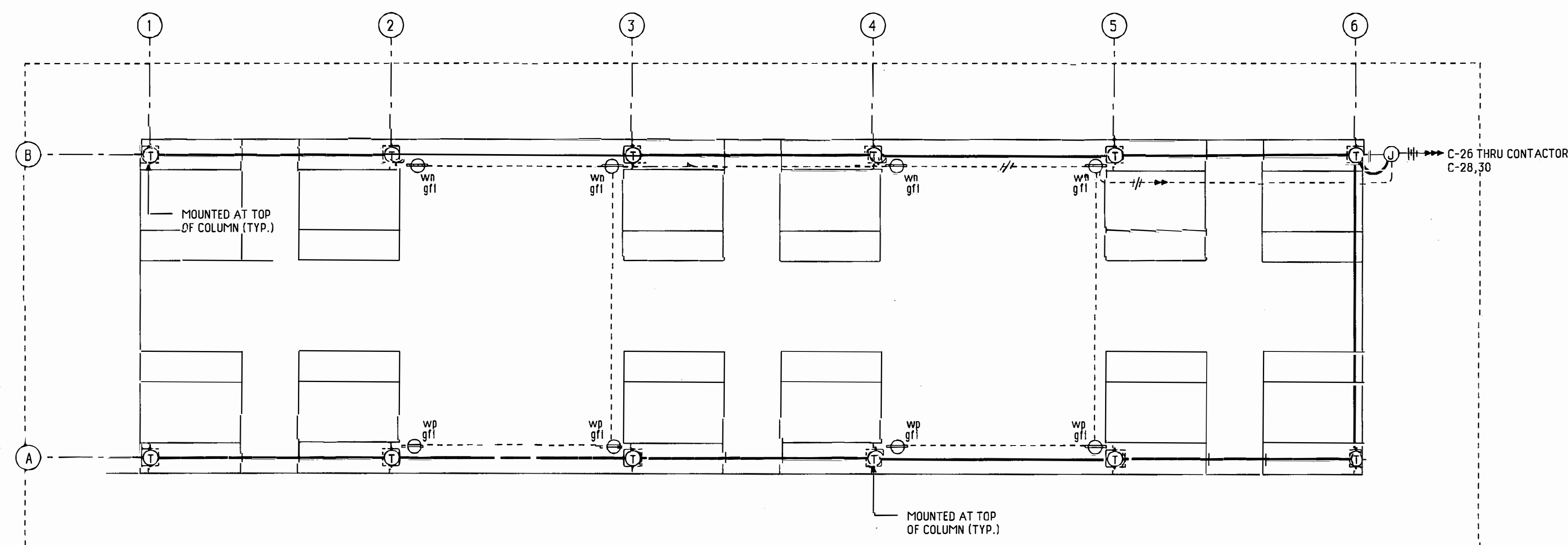
PW-8361, DI-220509

Event 4339DR-PR



Electrical Floor Plan

Scale : 1/4" = 1'-0"



Bench Electrical Plan

Resting Area
Scale : 1/4" = 1'-0"

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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY
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PUERTO RICO

DATE

REVISIONS

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

ELECTRICAL FLOOR PLAN
Restroom #4 & Resting Area # 1

E
10

Electrical Floor Plan
Scale 1/2" = 1' - 0"

ELECTRICAL LEGEND:

- RAFAEL AMARAL & ASSOCIATES
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CONSULTING ENGINEERS
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TEL. 792-6634 FAX 792-8759

DESIGNATION	DESCRIPTION			LAMPS OR TUBES			REMARKS
	TYPE	MANUFACTURER	CAT. NO.	NO.	WATTS	TYPE	
A	FLUORESCENT WALL	BEGA	3121P	1	15	13W PLC	120 VOLTS.
B	FLUORESCENT CEILING	KENALL	3907	1	10	7W PLC	
C	FLUORESCENT WALL	KENALL	3714	1	15	7W PLC	
D	FLUORESCENT INDUSTRIAL	LITHONIA	AF-332-120-GE8	3	100	32W TB	
E	EXIT LIGHT	LITHONIA	LES1R-120-ELN-TP VR				
F	EMERGENCY LIGHT	LITHONIA	ELM2				
G	FLUORESCENT STRIP	LITHONIA	S-132-120-GE8	1	40	32W TB	
H	PENDANT FLOURESCENT	BEGA	5126P	1	13	13W PLC	
K	FLUORESCENT WALL M	LIGHTOLIER	6585	1	9	9W PLC	
	DESCENT LAMPHOLDER	ARROW-HART	111	1	40	A-19	
M	PENDANT FLOURESCENT	BEGA	5126P	1	13	13W PLC	
N	FLUORESCENT CIRCLINE	LIGHTOLIER	6790	1	32	32W CIRCLINE	
O	H. P. S. WALLPACK	LITHONIA	TWL-50S-120-PE	1	50	H. P. S.	
P	H. P. S. WALL MOUNTED	ARCHITECTURAL LIGHTING	SL-FH22-T/WHAB 70HPS-120	1	70	H. P. S.	120 VOLTS, PROVIDE PHOTOCELL.
Q	H. P. S. POLE	ARCHITECTURAL LIGHTING	SL-FH30-PM/PRS-5R14 150HPS-120/BC1-5	1	150	H. P. S.	120 VOLTS.
R	H. P. S. POLE	ARCHITECTURAL LIGHTING	SL-FH30-T/PR4-4R16 SLA18/150HPS-120/BC4-4	1	150	H. P. S.	
S	H. P. S. L. P. BEACONS	IMPERIAL BRONZELITE	SL-8070-HPS	1	70	H. P. S.	
MT	INCANDESCENT TOP MOUNTED	IMPERIAL BRONZELITE	LL-2075-8/JL-5 PROVIDE LL-1 WIREGUARD	1	75	PAR 38	
U	FLUORESCENT WALL MOUNTED	P	SKOT SKT-222	1	9	9W PLC	
V	FAN PENDANT	HUNTER	23856-52* 5 WHITE BLADES	1	200		
VI	FAN, PENDANT W/LIGHT KIT	HUNTER	23856-52* 5 WHITE BLADES	1	200		
W	FLUORESCENT WALKWAY	IMPERIAL BRONZELITE	AL-1510-FL9-A	1	9	9W PLC	

ELECTRICAL NOTES:

1. ALL INDICATED HEIGHTS ARE FROM THE CENTER OF THE BOX OR EQUIPMENT TO FINISHED FLOOR EXCEPT AS OTHERWISE INDICATED.
2. ALL CONDUIT IN CONTACT WITH GROUND SHALL BE ENCASED IN CONCRETE.
3. NO WIRE SHALL BE SMALLER THAN NO. 12 THW, 600V INSULATED.
4. NO CONDUIT SHALL BE SMALLER THAN 3/4" IN DIAMETER.
5. EMT CONDUIT MAY BE USED FOR SIZES UP TO & INCLUDING 2", ALL OTHER CONDUIT & EXPOSED CONDUIT SHALL BE RIGID GALVANIZED.
6. CONTRACTOR SHALL BALANCE ALL THE LOADS.
7. PROVIDE NO. 12 TW GREEN BONDING JUMPER BETWEEN THE OUTLET BOX GROUNDING SCREW & ALL RECEPTACLES GROUND TERMINALS, EXCEPT FOR THE USE OF SELF-GROUNDING TYPE RECEPTACLES.
8. ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE.
9. ALL PANEL, METER, SAFETY SWITCH, ETC. SHALL BE MARKED TO IDENTIFY THEIR USE AND/OR VOLTAGE.
10. THE ELECTRICAL INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE 1987 EDITION AND/OR THE PUERTO RICO ELECTRIC POWER AUTHORITY REGULATIONS.
11. CONTRACTOR SHALL VERIFY EXISTING PANEL VOLTAGES BEFORE BUYING LIGHT FIXTURES, AND WIRING DEVICES. ANY ADDITIONAL BREAKERS REQUIRED FOR THE ELECTRICAL INSTALLATION SHALL BE PROVIDED. ALSO ANY REWIRING TO SATISFY THE ELECTRICAL DESING SHOWN ON THE DRAWINGS.
12. ALL WIRING SHALL BE DONE IN E.M.T. CONDUIT, NO UF CABLE SHALL BE USED TO WIRE IN THE WALLS AND/OR FLOORS.
13. CONTRACTOR SHALL IDENTIFY ALL CIRCUITS IN THE EXISTING & NEW PANELS WITH CIRCUIT NUMBER & PREPARE A NEW DIRECTORY TO REFLECT ALL CHANGES.
14. CONTRACTOR IS RESPONSIBLE FOR THE HANDLING OF EXISTING ELECTRICAL FACILITIES AND/OR ELECTRICAL EQUIPMENT SUCH AS WIRING DEVICES, LIGHTING FIXTURES, ETC.
15. CONTRACTOR IS RESPONSIBLE TO COORDINATED ALL CIRCUITS CONNECTION IN EXISTING PANELS.

DESIGNATION TYPE	MOUNTING	B R E A K E R S			WIRES	CONDUIT	LOAD SERVED
		CIRC. NO.	POLES	TRIP			
"MDP" 400 AMP 120-208V 3 PHASES 4 WIRES NOOB 42 SPACES	SURFACE	1	3	40A	4 NO 6 THHN	1"	COMPRESSOR
		2	3	125A	4 NO 1/0 THHN	2"	PANEL "A"
		3	3	100A	4 NO 1/0 THHN	2"	PANEL "B"
		4	3	100A	4 NO 2 THHN	1 1/2"	PANEL "C"
		6-17	1	20A		—	SPARES
"A" 225 AMP 120-208V 3 PHASES 4 WIRES NOOB 42 SPACES	FLUSH	*1-12	1	20A	2 NO 12 THHN	3/4"	LIGHTING & RECEPTACLES
		13-17	2	20A	3 NO 12 THHN	3/4"	220V POWER RECEPTACLES
		18	2	20A	2 NO 12 THHN	3/4"	ELEVATOR
		19	3	60A	4 NO 4 THHN	1 1/4"	PANEL "A2"
		20-26	1	20A		—	SPARES
"A2" 100 AMP 120-208V 3 PHASES 4 WIRES NOOB 24 SPACES	FLUSH	1-7	1	20A	2 NO 12 THHN	3/4"	LIGHTING & RECEPTACLES
		8-14	1	20A		—	SPARES
"B" 225 AMP 120-208V 3 PHASES 4 WIRES NOOB 36 SPACES	FLUSH	*1-7,9	1	20A	2 NO 12 THHN	3/4"	LIGHTING & RECEPTACLES
		8	2	20A	3 NO 12 THHN	3/4"	220V POWER RECEPTACLES
		10	2	20A	2 NO 10 THHN	3/4"	OFFICE A/C
		11	2	20A	4 NO 12 THHN	3/4"	ELEVATOR
		12	3	60A	4 NO 4 THHN	1 1/4"	PANEL "B2"
		13-19	1	20A		—	SPARES
"B2" 100 AMP 120-208V 3 PHASES 4 WIRES NOOB 24 SPACES	FLUSH	1-7	1	20A	2 NO 12 THHN	3/4"	LIGHTING & RECEPTACLES
		8-12	1	20A		—	SPARES
"C" 225 AMP 120-208V 3 PHASES 4 WIRES NOOB 42 SPACES	FLUSH	*1-12	1	20A	2 NO 12 THHN	3/4"	LIGHTING & RECEPTACLES
		13-16	2	20A	3 NO 12 THHN	3/4"	220V POWER RECEPTACLES
		20-27,29	1	20A	3 NO 8 XLP	1 1/4"	EXTERIOR LIGHTING
		28,30	1	20A	3 NO 10 XLP	1"	G.F. RECEPTACLES
		30-38	1	20A		—	SPARES
"G" 100 AMP 120-208V 1 PHASES 3 WIRES NOOB 24 SPACES	FLUSH	*1,2	1	20A	2 NO 12 THHN	3/4"	RECEPTACLES
		*3,4	1	20A	2 NO 12 THHN	3/4"	CONTROL
		5,6	1	20A	2 NO 12 THHN	3/4"	GATES
		7	1	20A	2 NO 12 THHN	3/4"	LIGHTING
		8-13	1	20A		—	SPARES
"MD2" 225 AMP 120-240V 1 PHASES 3 WIRES NOOB 36 SPACES	SURFACE	1,2	1	20A	2 NO 12 THHN	3/4"	LIGHTING
		*3,4	1	20A	2 NO 12 THHN	3/4"	RECEPTACLES
		*5-7	1	20A	3 NO 10 THHN	3/4"	GEZEBO RECEPTACLES
		B-17	1	20A	3 NO 8 XLP	1 1/4"	EXTERIOR LIGHTING
		18,19	2	50A	4 NO 4 XLP	1 1/2"	PANEL "G" GUARD HOUSES
		20-25	1	20A		—	SPARES

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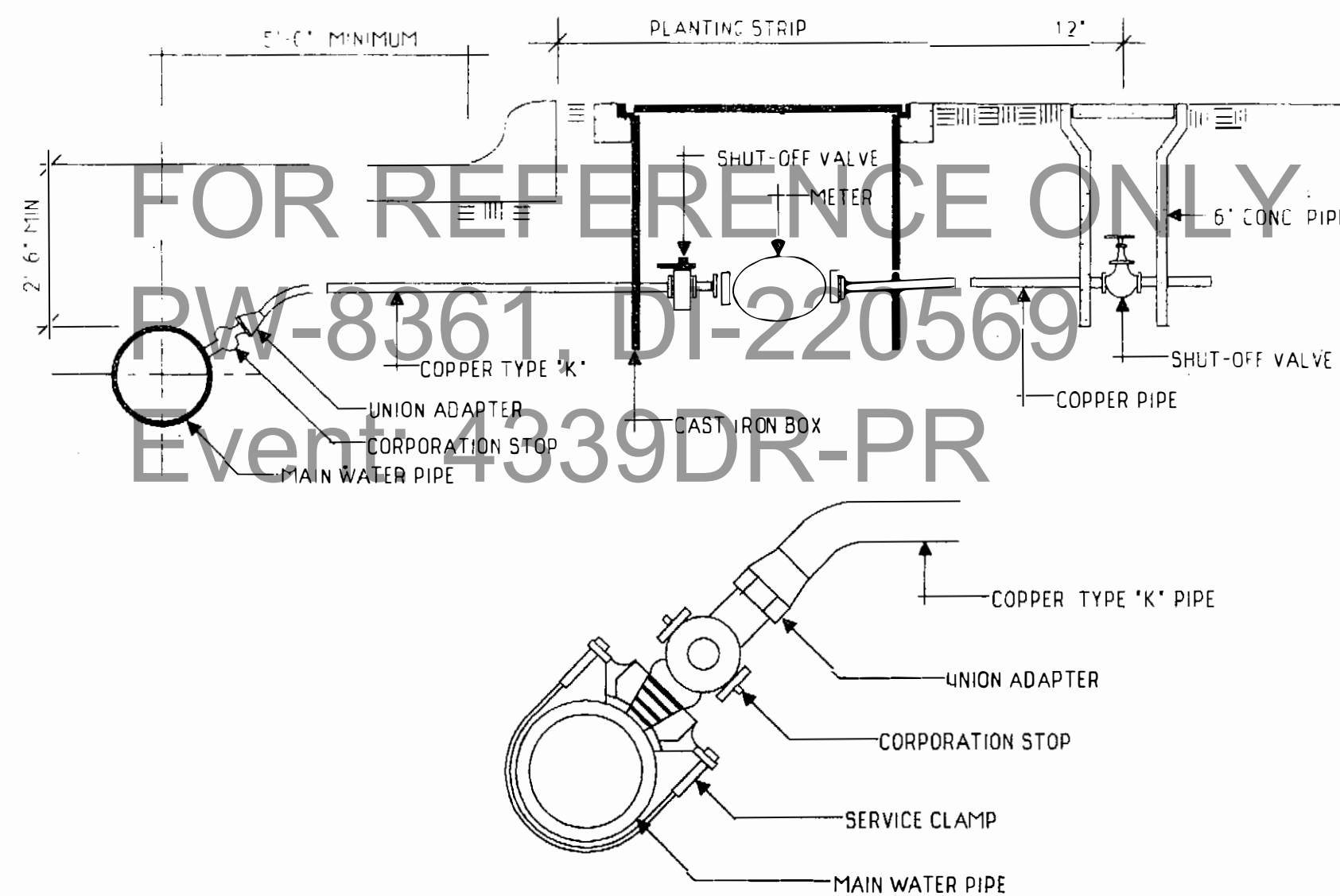
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PUERTO RICO

DATE	
	REVISIONS

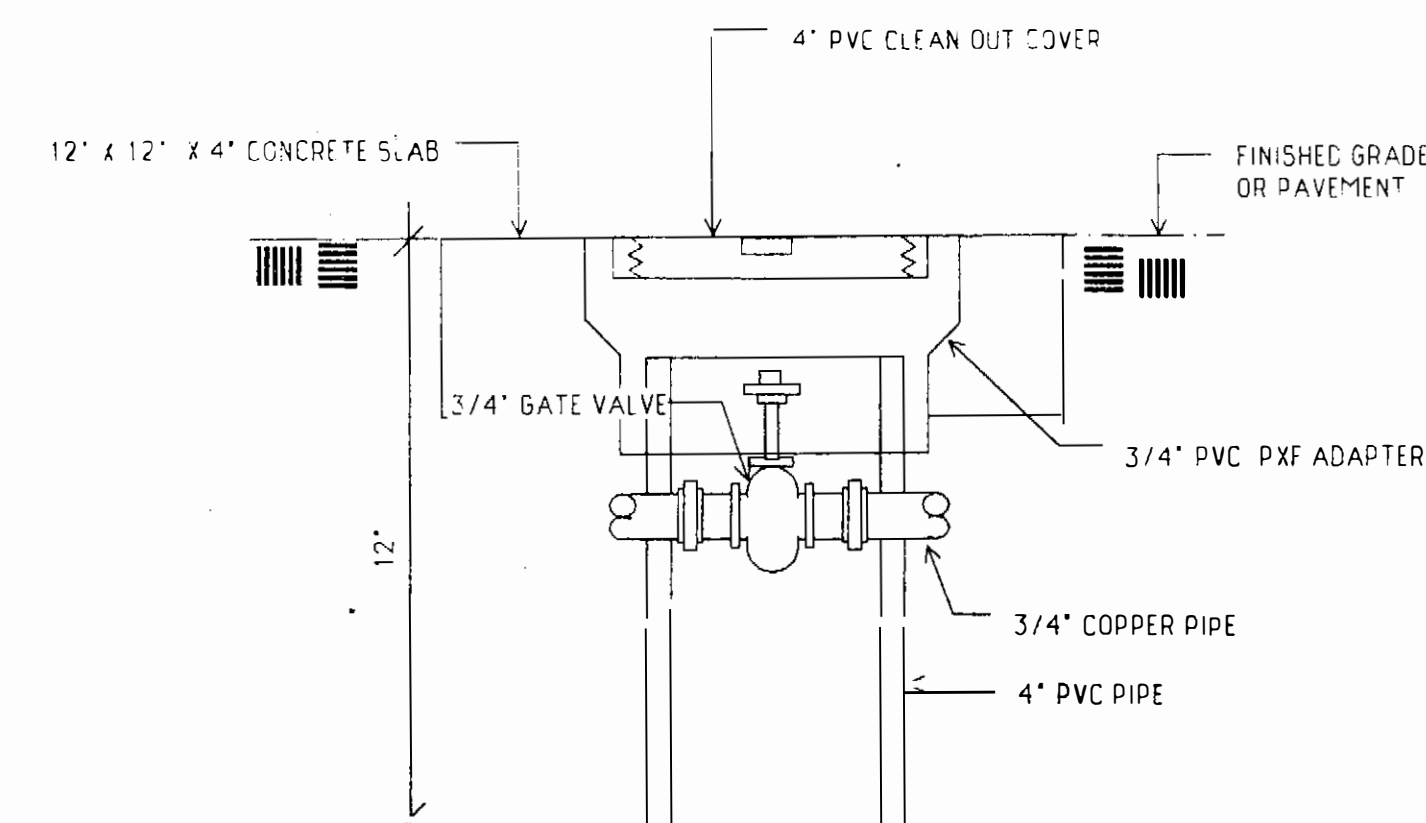
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GUARD HOUSE ELECTRICAL PLAN SCHEDULES, NOTES & LEGEND

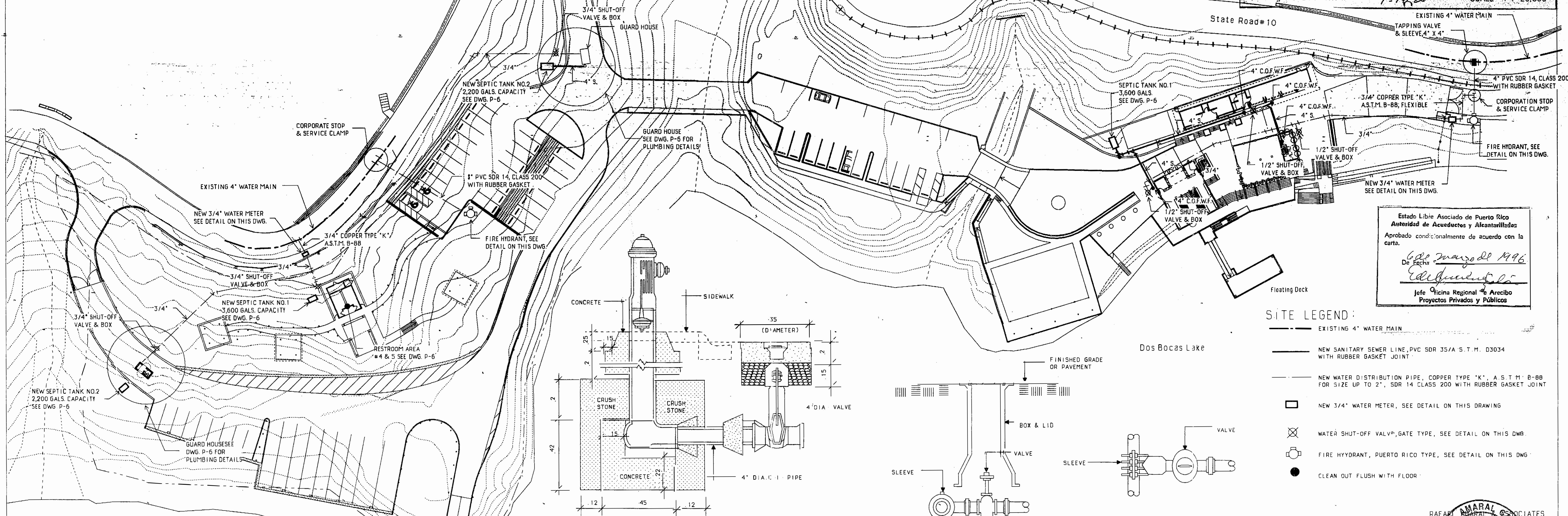
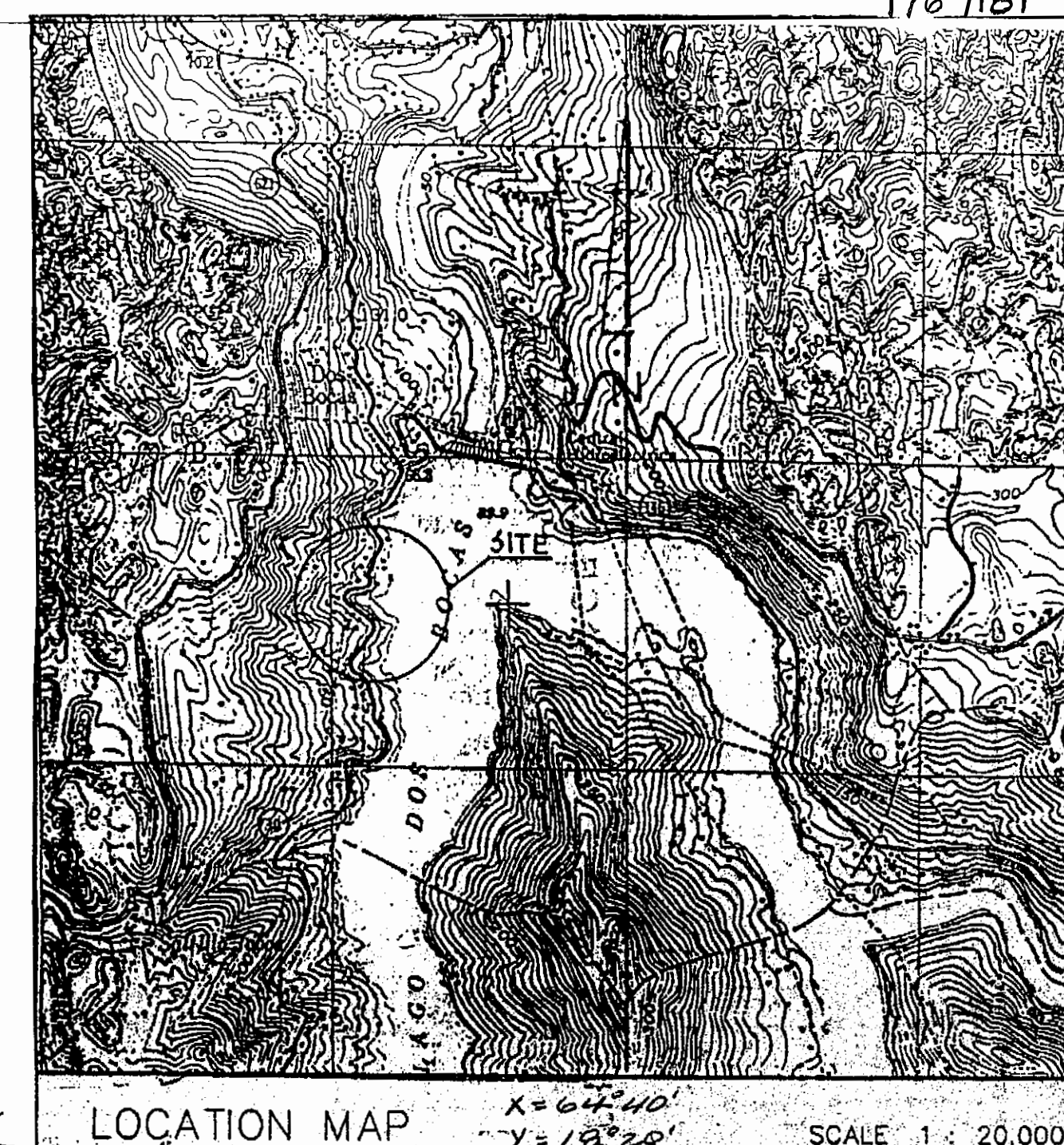
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	11



3/4" WATER METER DETAIL



3/4" SHUT-OFF VALVE & BOX DETAIL



Plumbing Site Plan
Scale: 1:400

FIRE HYDRANT DETAIL

ELEVATION PLAN VIEW
TAPPING VALVE & SLEEVE DETAIL

SITE LEGEND:

- EXISTING 4" WATER MAIN
- NEW SANITARY SEWER LINE, PVC SDR 35/A S.T.M. D3034
WITH RUBBER GASKET JOINT
- NEW WATER DISTRIBUTION PIPE, COPPER TYPE "K", A.S.T.M. B-88
FOR SIZE UP TO 2", SDR 14 CLASS 200 WITH RUBBER GASKET JOINT
- NEW 3/4" WATER METER, SEE DETAIL ON THIS DRAWING
- WATER SHUT-OFF VALVE, GATE TYPE, SEE DETAIL ON THIS DWG.
- FIRE HYDRANT, PUERTO RICO TYPE, SEE DETAIL ON THIS DWG.
- CLEAN OUT FLUSH WITH FLOOR

Estado Libre Asociado de Puerto Rico
Autoridad de Acueductos y Alcantarillados

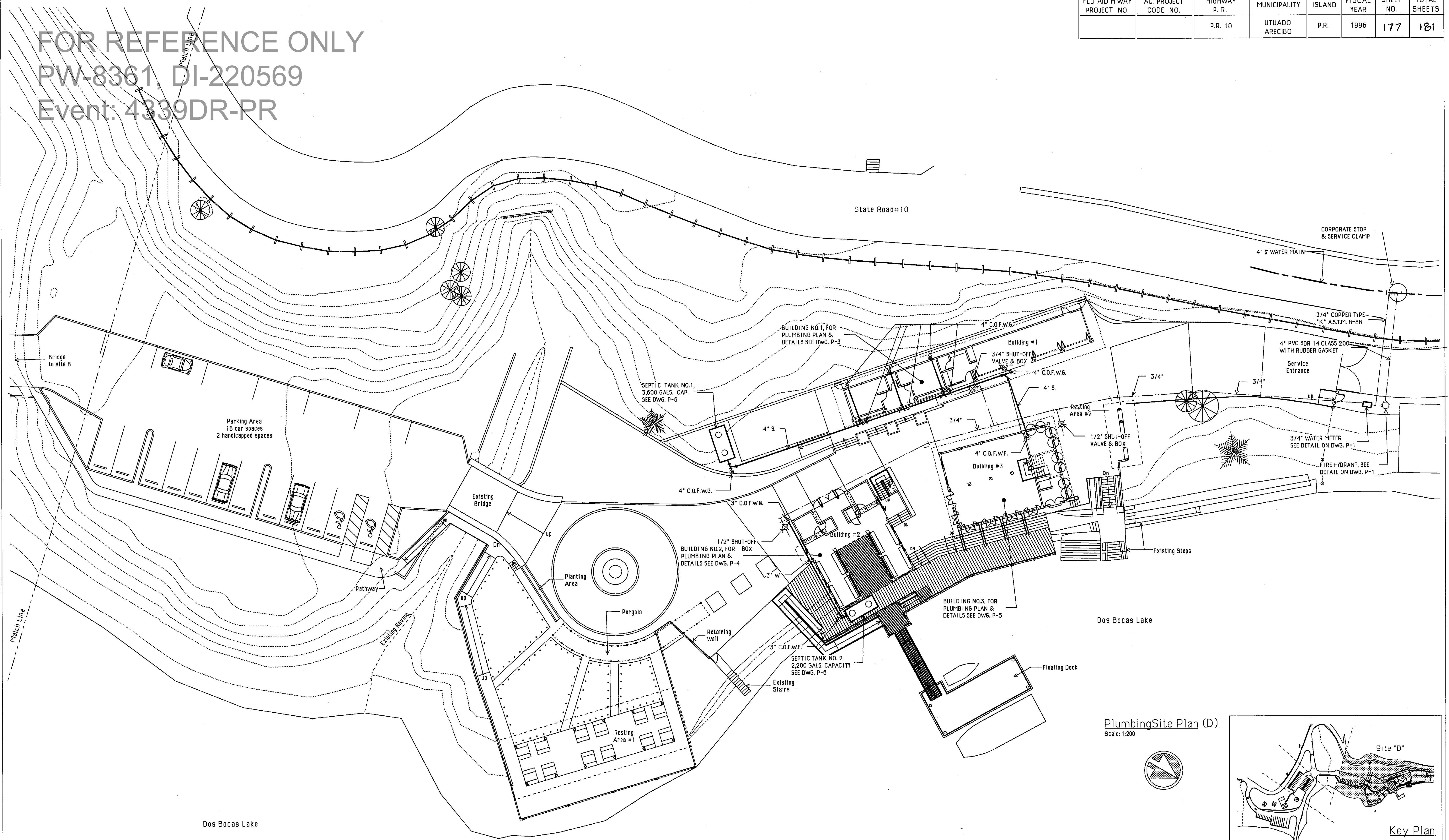
Aprobado condicionalmente de acuerdo con
carta.

6 de marzo del 1999
De Fecha _____
Eduardo L. S.
Jefe Oficina Regional de Arecibo
Proyectos Privados y Públicos

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FOR REFERENCE ONLY
PW-8361, DI-220569
Event: 4339DR-PR

FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		P.R. 10	UTUADO ARECIBO	P.R.	1996	177	181



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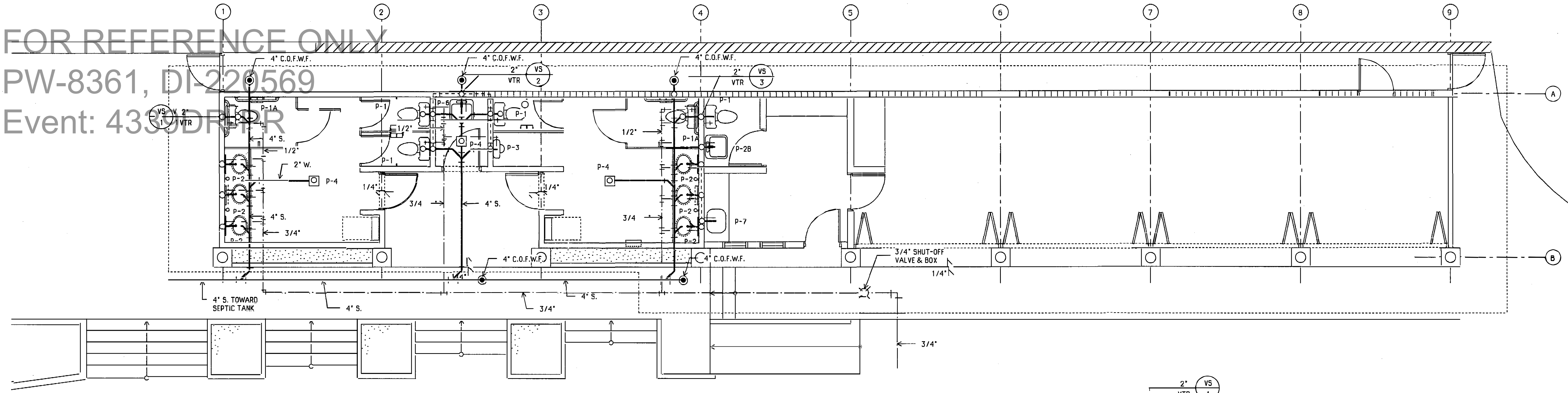


DATE	REVISIONS

SCALE: 1:200

Plumbing Site Plan (D)

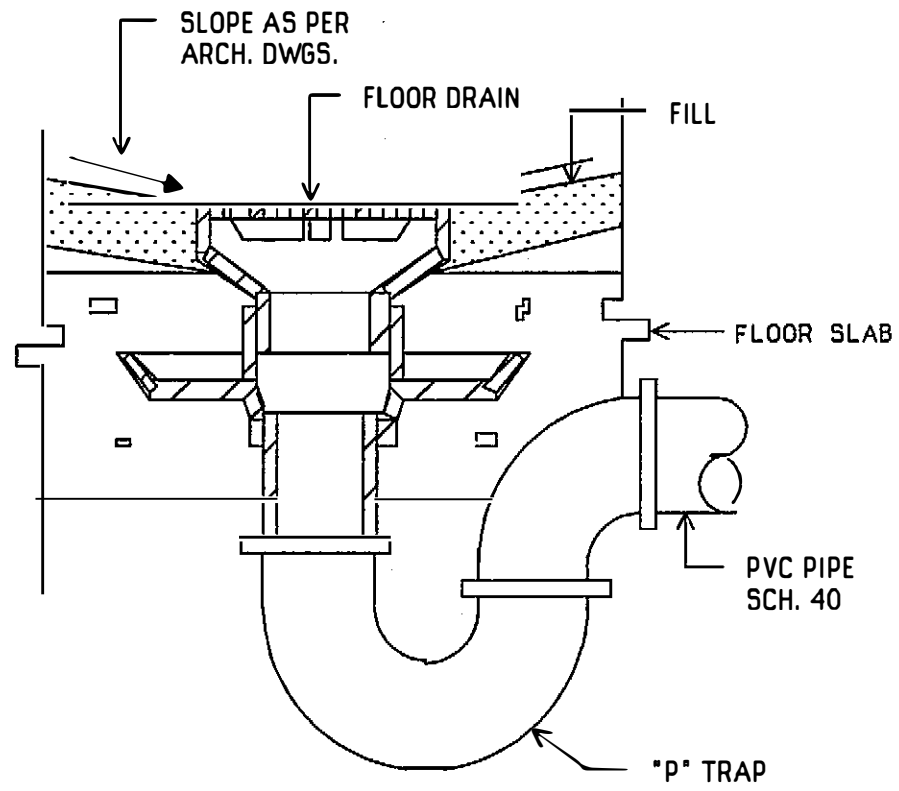
P - 2



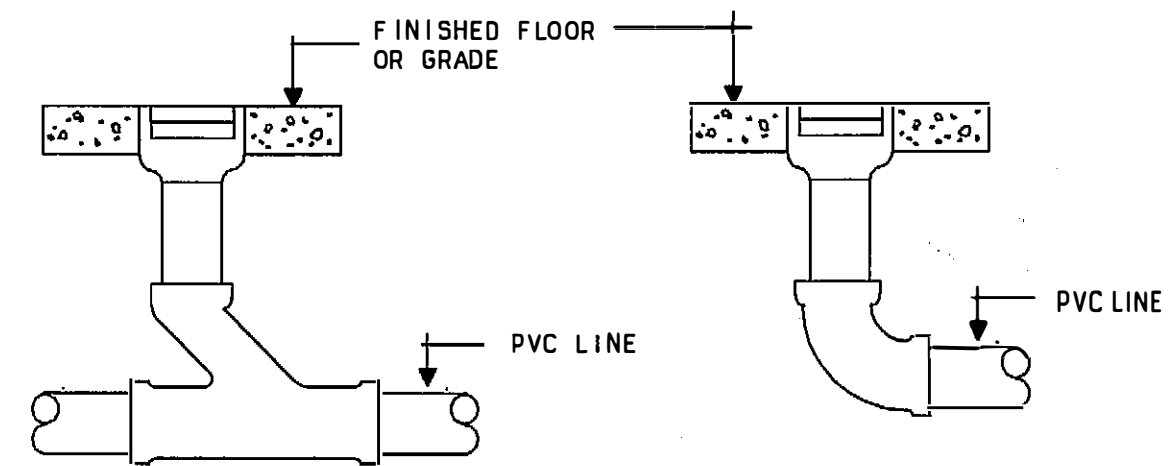
Plumbing Floor Plan/ Building #1
Restrooms & Warehouse

Scale: 1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE					
SYMBOL	FIXTURE	COLD & HOT WATER SUPPLY		FIXTURE DRAIN	FIXTURE VENT
		COLD	HOT		
P-1	WATER CLOSET	1/2"		4"	2"
P-1A	WATER CLOSET (HANDICAPPED)			4"	2"
P-2	LAVATORY			1 1/4"	1 1/4"
P-2A	LAVATORY HANDICAPPED			1 1/4"	1 1/4"
P-2B	LAVATORY			1 1/4"	1 1/4"
P-3	URINAL	3/4"		2"	2"
P-4	FLOOR DRAIN				
P-5	DRINKING FOUNTAIN	1/2"		1 1/4"	1 1/4"
P-6	JANITOR'S SINK			1 1/2"	1 1/2"
P-7	BUILT-IN SINK			1 1/2"	1 1/2"
P-8	ENCASED HOSE BIBB				

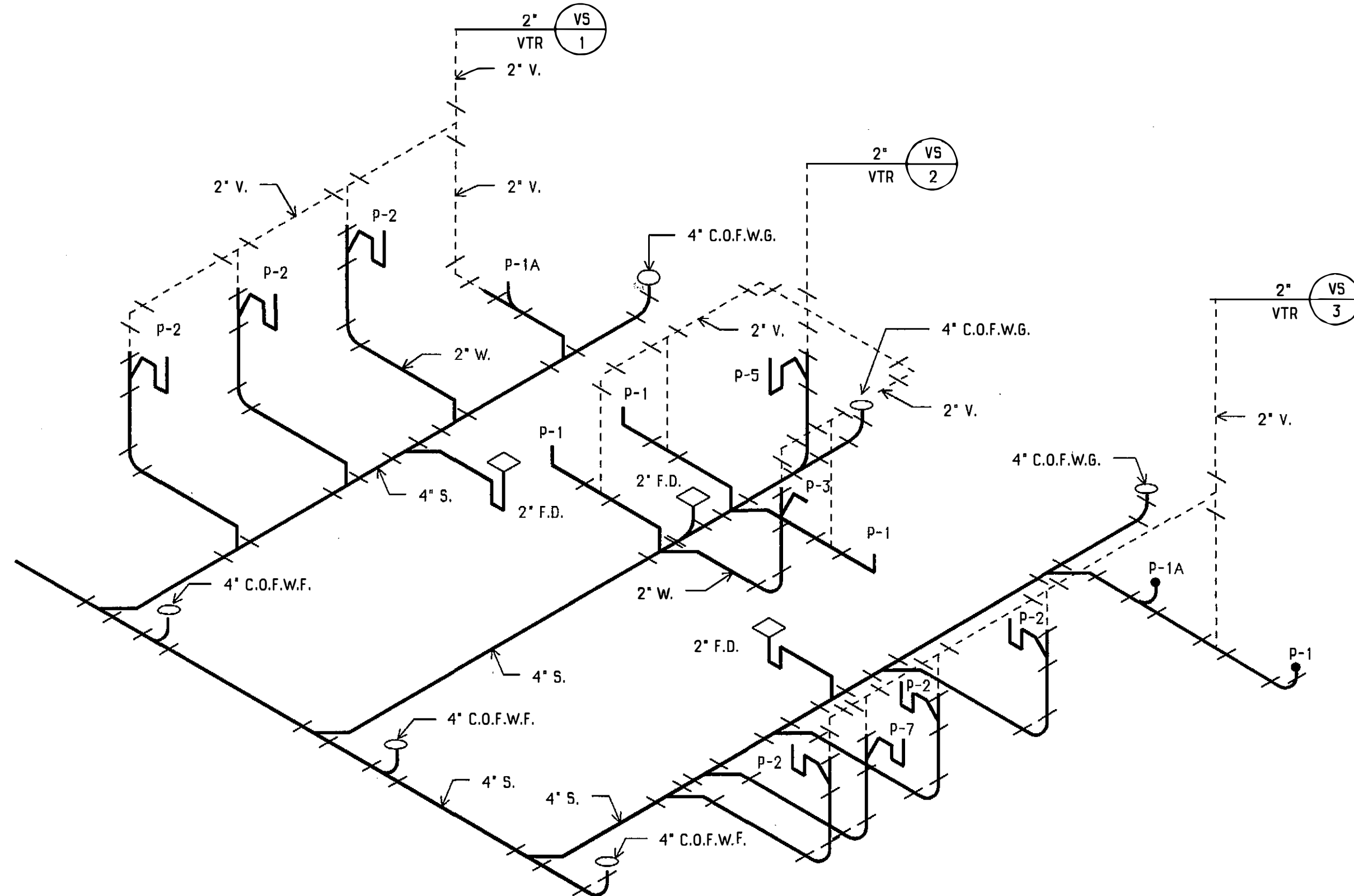


FLOOR DRAIN DETAIL
(NOT TO SCALE)



CLEANOUT DETAIL

NOT TO SCALE



PLUMBING ISOMETRIC

VS 1 VS 2 VS 3

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UTUADO / ARECIBO
PUERTO RICO

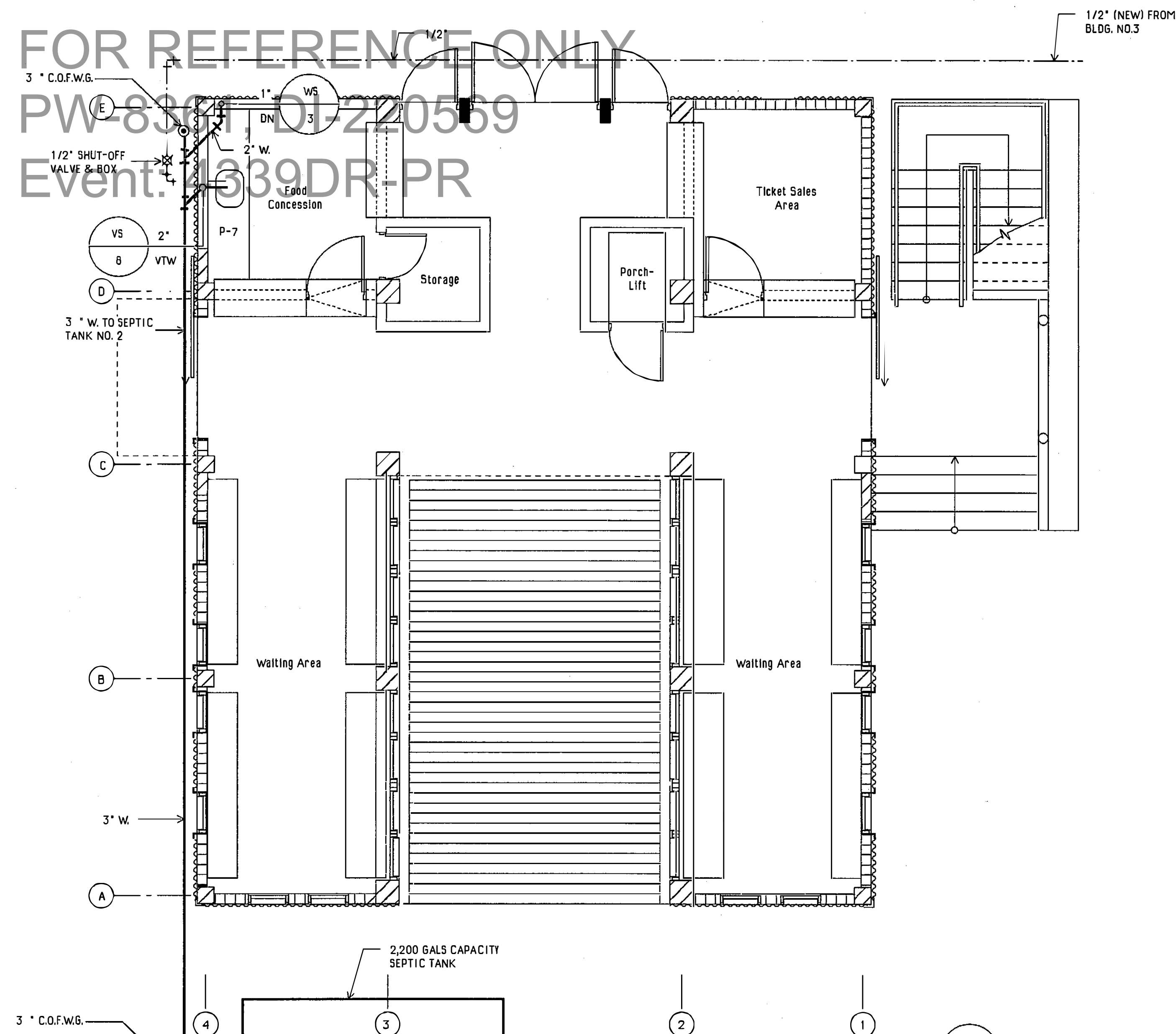
DATE	REVISIONS

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

Plumbing Floor Plan
Building # 1

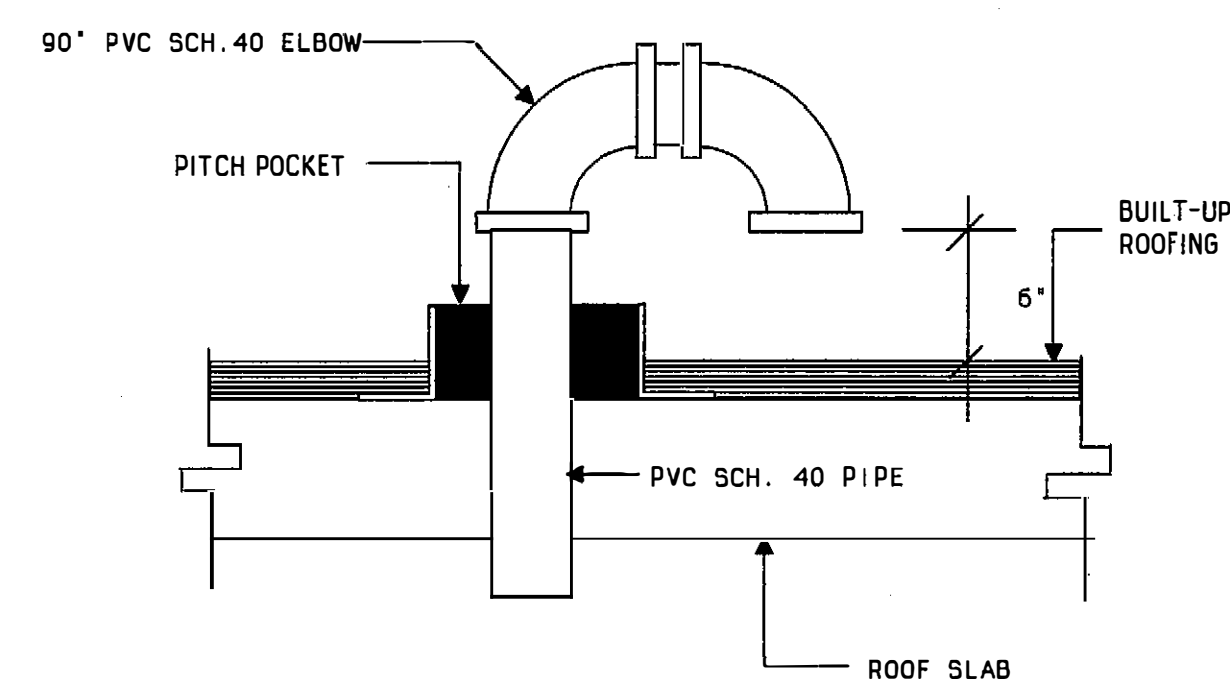
P-3

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PW-8361-DI-220559
Event: 339DR-PR

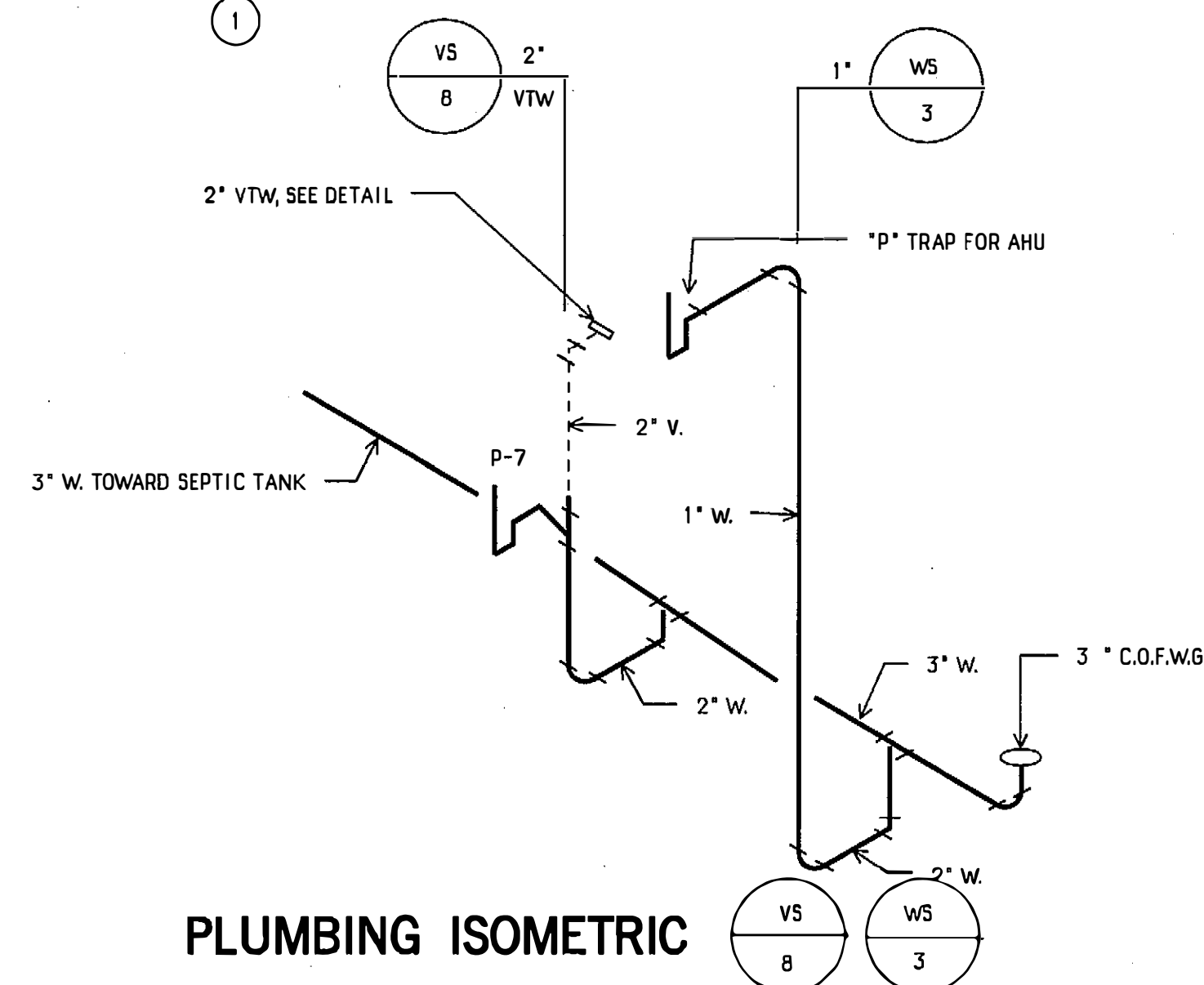


1st Floor Plumbing Plan

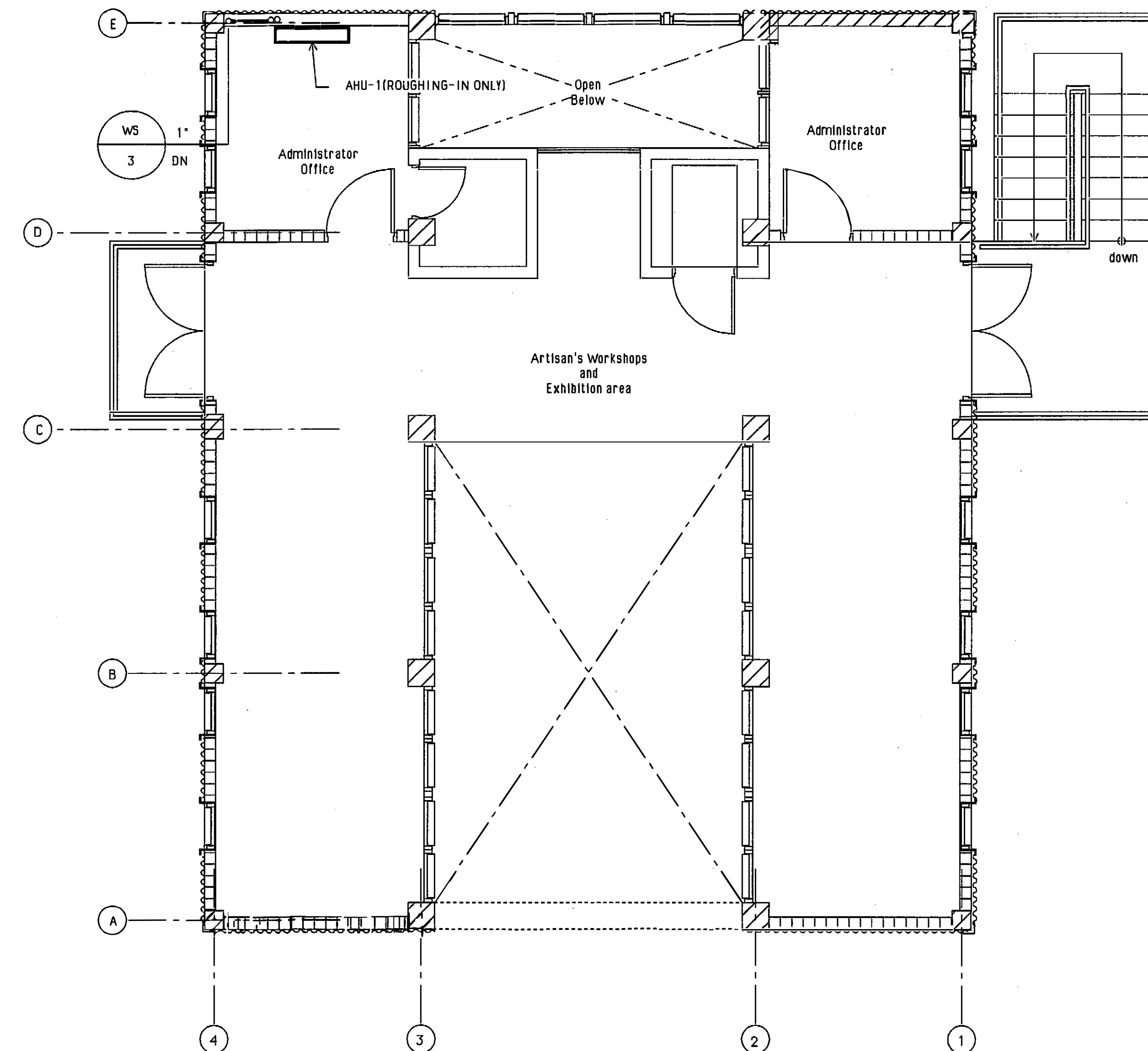
Building #2
Scale: 1/4" = 1'-0"



VENTILATION DETAIL N.T.S.

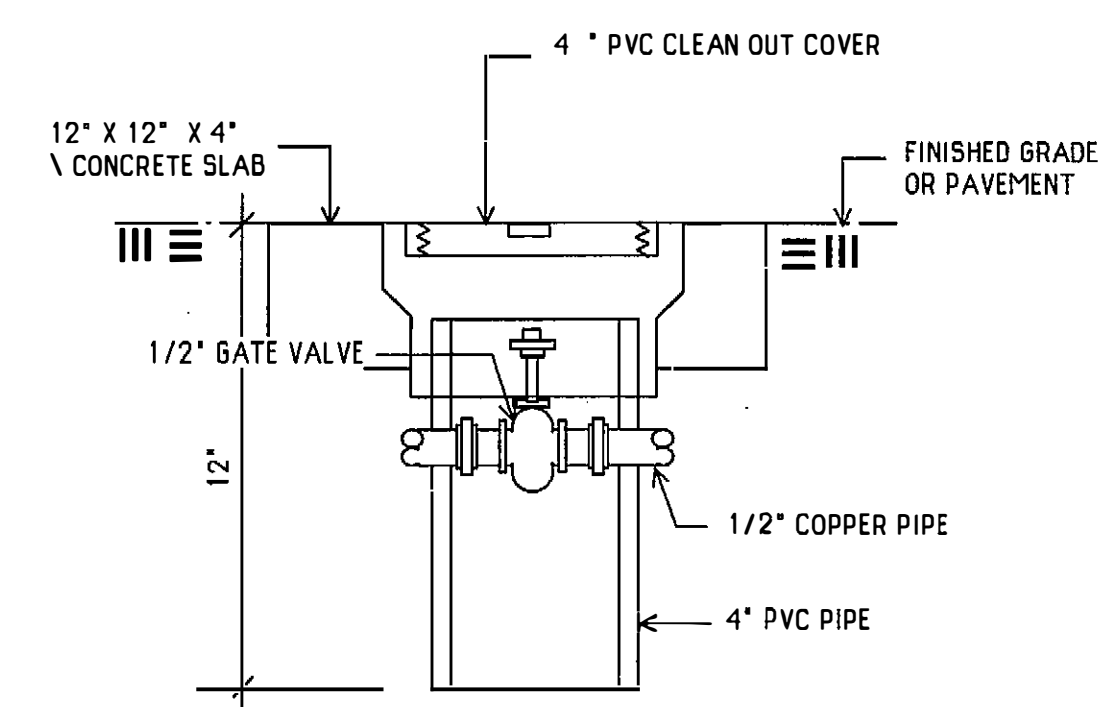


PLUMBING ISOMETRIC

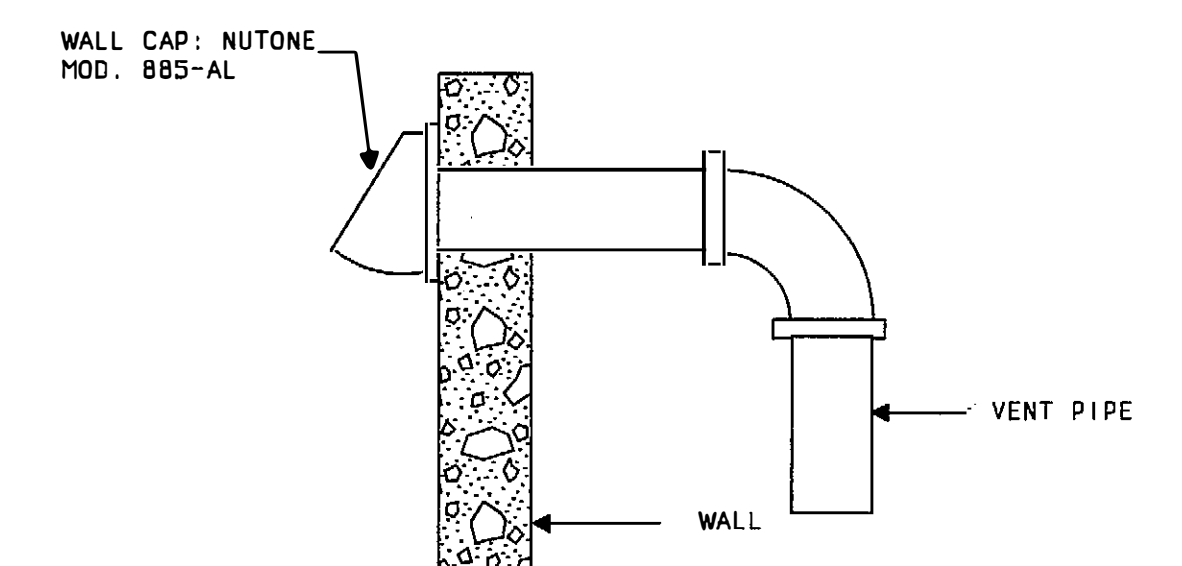


2nd Floor Plumbing Plan

Building #2
Scale: 1/4" = 1'-0"



1/2" SHUT - OFF VALVE & BOX DETAIL



VENT THRU WALL DETAIL

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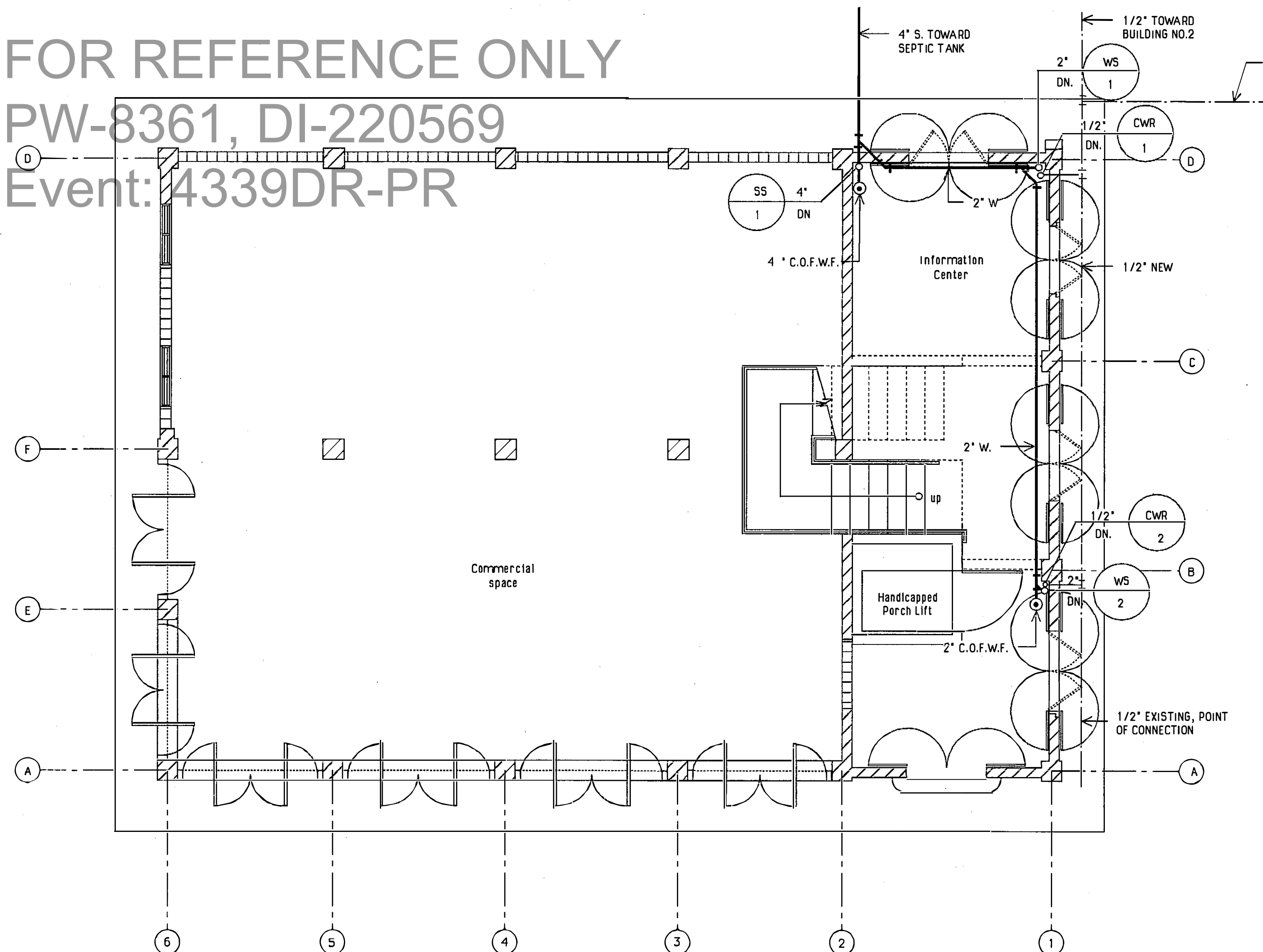
DATE REVISIONS

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

1st. & 2nd Floor Plumbing Plan
Building #2

P - 4

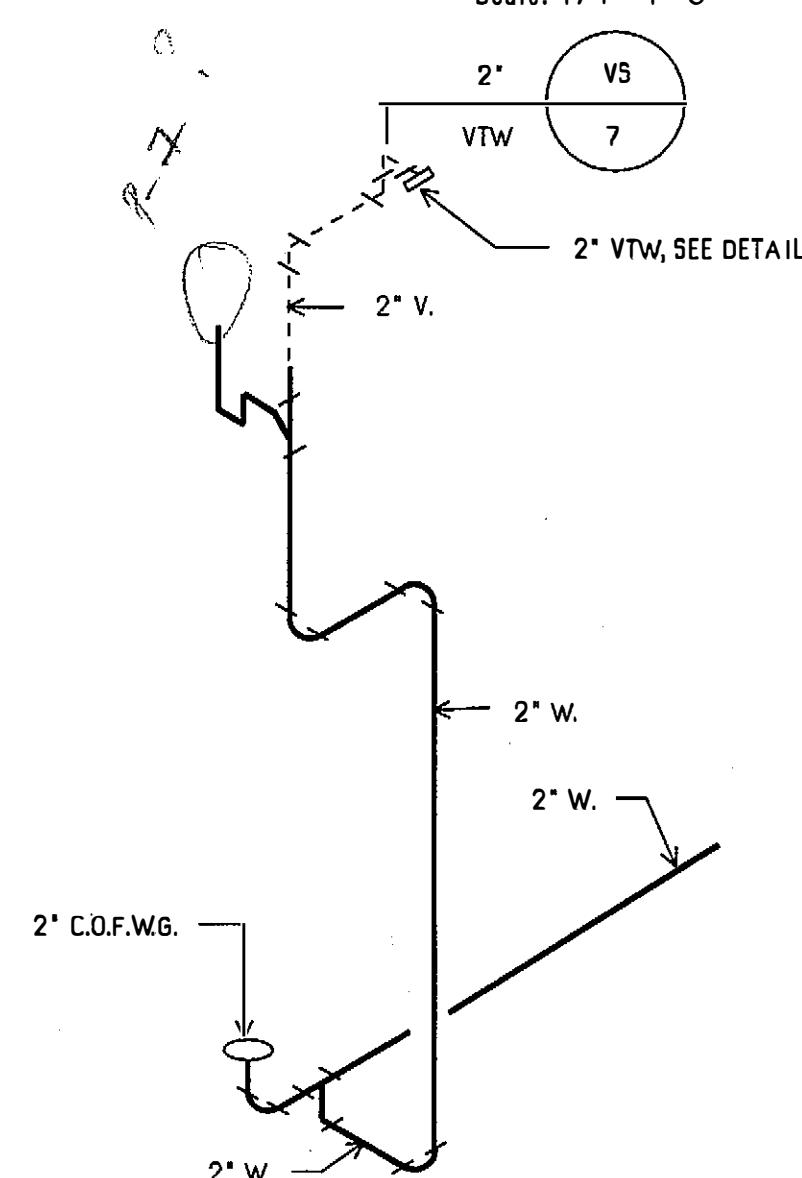
FOR REFERENCE ONLY
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Event: 4339DR-PR



1st Floor Plumbing Plan

Building #3

Scale: 1/4"=1'-0"



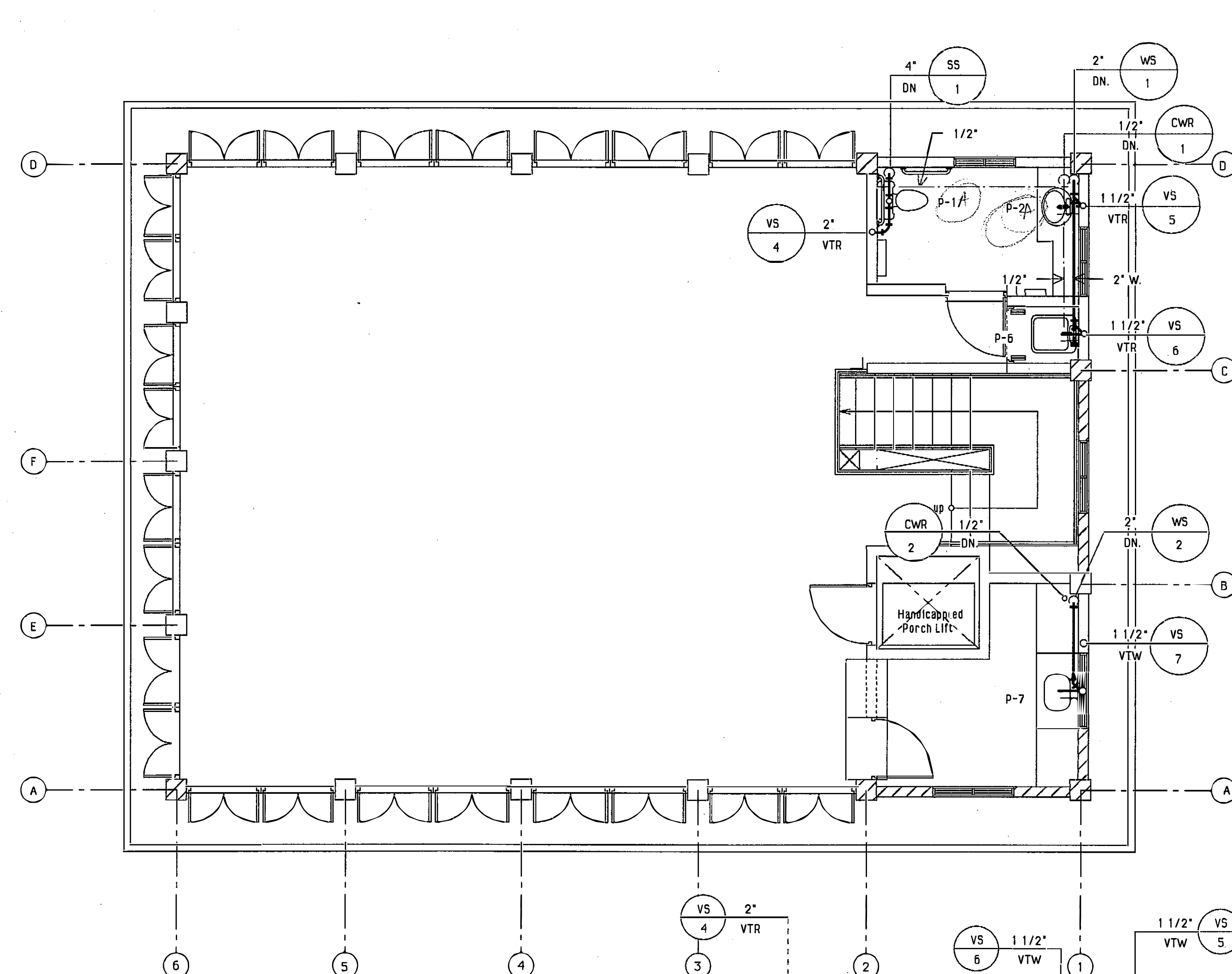
PLUMBING ISOMETRIC

PLUMBING LEGEND:

- WASTE OR SANITARY SEWER PIPE, PVC SCH. 40
- VENT PIPING, PVC SCH. 40
- COLD WATER PIPE, COPPER TYPE "L"
- 2" FLOOR DRAIN, J.R. SMITH CAT. NO.2010 -B
- CLEAN OUT
- BRONZE BALL VALVE, LINE SIZE
- 4" SOIL STACK NO.1, 4" PVC SCH.40, DOWN
- 2" WASTE SATCK NO.2, 2" PVC SCH.40,DOWN
- 2" VENT STACK NO.3, 2" PVC SCH.40,UP TO ROOF BY C.C. CONNECTION BY TENNANT
- 2" RAIN LEADER NO.4,2" PVC SCH.40,DOWN
- C.O.F.W.F. CLEAN OUT FLUSH WITH FLOOR, J.R. SMITH 4051
- C.O.F.W.W. CLEAN OUT FLUSH WITH GRADE, J.R. SMITH 4031
- VTR VENT THRU ROOF
- VTW VENT THRU WALL

PLUMBING NOTES:

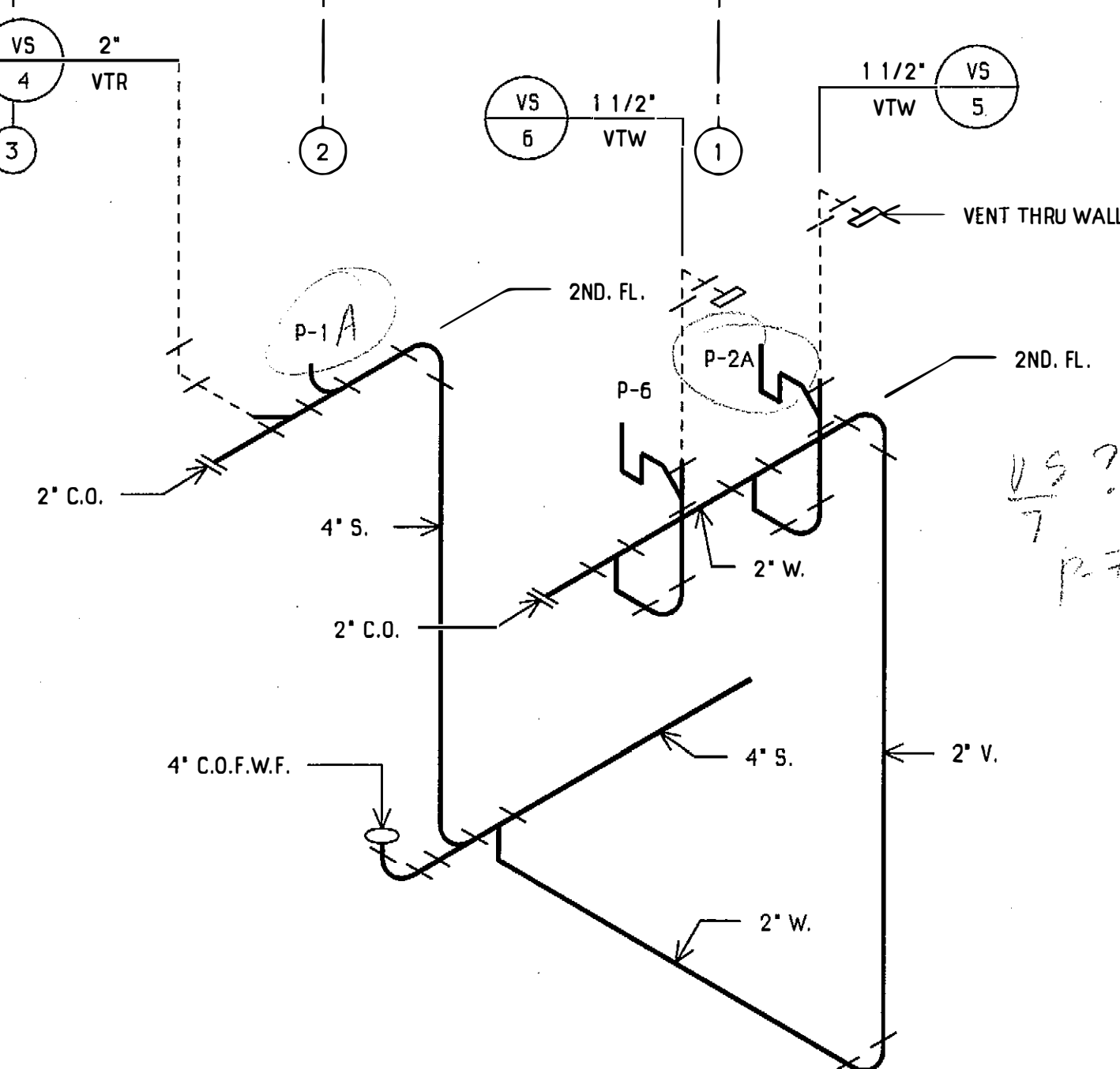
- ALL PLUMBING WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE REGULATIONS OF THE DEPARTMENT OF HEALTH OF P.R.,THE LOCAL BUILDING CODE, THE NATIONALPLUMBING CODE & CONTRACT SPECIFICATIONS.
- SIZES SHOWN ON FIXTURE SCHEDULE ARE MINIMUM AND SHALL BE INCREASED AS NECESSARY TO COMPLY WITH CODE REQUIREMENTS OR AS SHOWN ON CONTRACT DRAWINGS.
- ALL HORIZONTAL PORTIONS OF SOIL, WASTE STACKS & BRANCHES SHALL SLOPE 1/8 PER FT. EXCEPT OTHERWISE SHOWN.
- THE CONTRACTOR SHALL FURNISH & INSTALL ALL PIPING,PARTS & MATERIALS REQUIRED FOR A COMPLETE & APPROVED INSTALLATION.ALL PLUMBING SYSTEMS SHALL BE IN PERFECT WORKING CONDITIONS UPON COMPLETION OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS & APPROVALS NECESSARY FROM THE P.R. AQUEDUCTS & SEWER AUTHORITY & OTHER AGENCIES..
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE PIPING TO AVOID ANY INTERFERENCE WITH PIPING &/OR EQUIPMENT INSTALLED BY OTHER CONTRACTORS.
- LONG SWEEP BENDS & ELBOWS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.
- ALL VALVES IN WALLS OR FLOOR SHALL BE PROVIDED WITH ACCESS FOR OPERATION & MAINTENANCE.
- ALL PIPES SHALL BE ADEQUATELY SUPPORTED ON HANGERS OR CARRIERS AS REQUIRED.HANGERS SHALL BE PLACED 8 FT. APART FOR SIZES UP TO 4" & 10 FT. APART ON SIZES LARGER THAN 4".
- CONTRACTOR SHALL PROVIDE A CLEANOUTS NOT MORE THAN 50 FT. APART IN HORIZONTAL DRAINAGES LINES.
- ALL WORK, MATERIAL & EQUIPMENT SHOWN ON THESE DRAWINGS IS NEW, EXCEPT FOR THAT SPECIFICALLY SHOWN AS EXISTING.
- ALL WASTE, DRAIN, SOIL & VENT PIPE SHALL BE PVC SCH. 40.
- PRIOR TO STARTING THE PLUMBING WORK THE CONTRACTOR SHALL VERIFY EXISTING SANITARY SEWER AND WATER DISTRIBUTION FACILITIES SO AS TO DETERMINE WHETHER THE PLUMBING DESIGN WILL FIT OR ACCOMMODATE TO THE EXISTING FACILITIES. NO PLUMBING WORK SHALL BE STARTED UNLESS THE VERIFICATION WORK IS PERFORMED AND THE ARCHITECT AND/OR ENGINEER GIVES THE REQUIRED APPROVAL.



Second Floor Plumbing Plan

Building #3

Scale: 1/4"=1'-0"



PLUMBING ISOMETRIC

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DATE REVISIONS

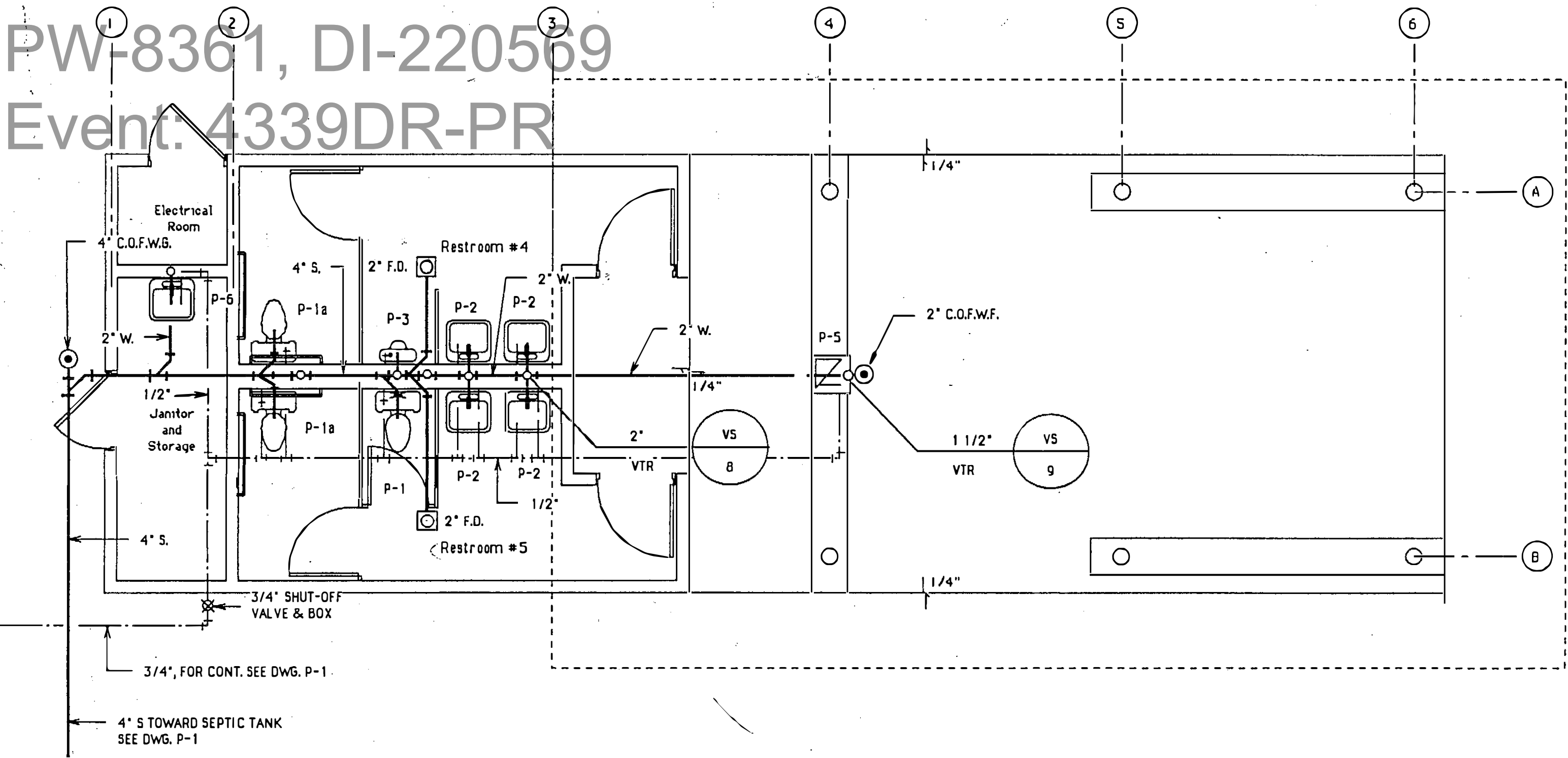
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1st. & 2nd Floors PlumbingPlan
Building #3

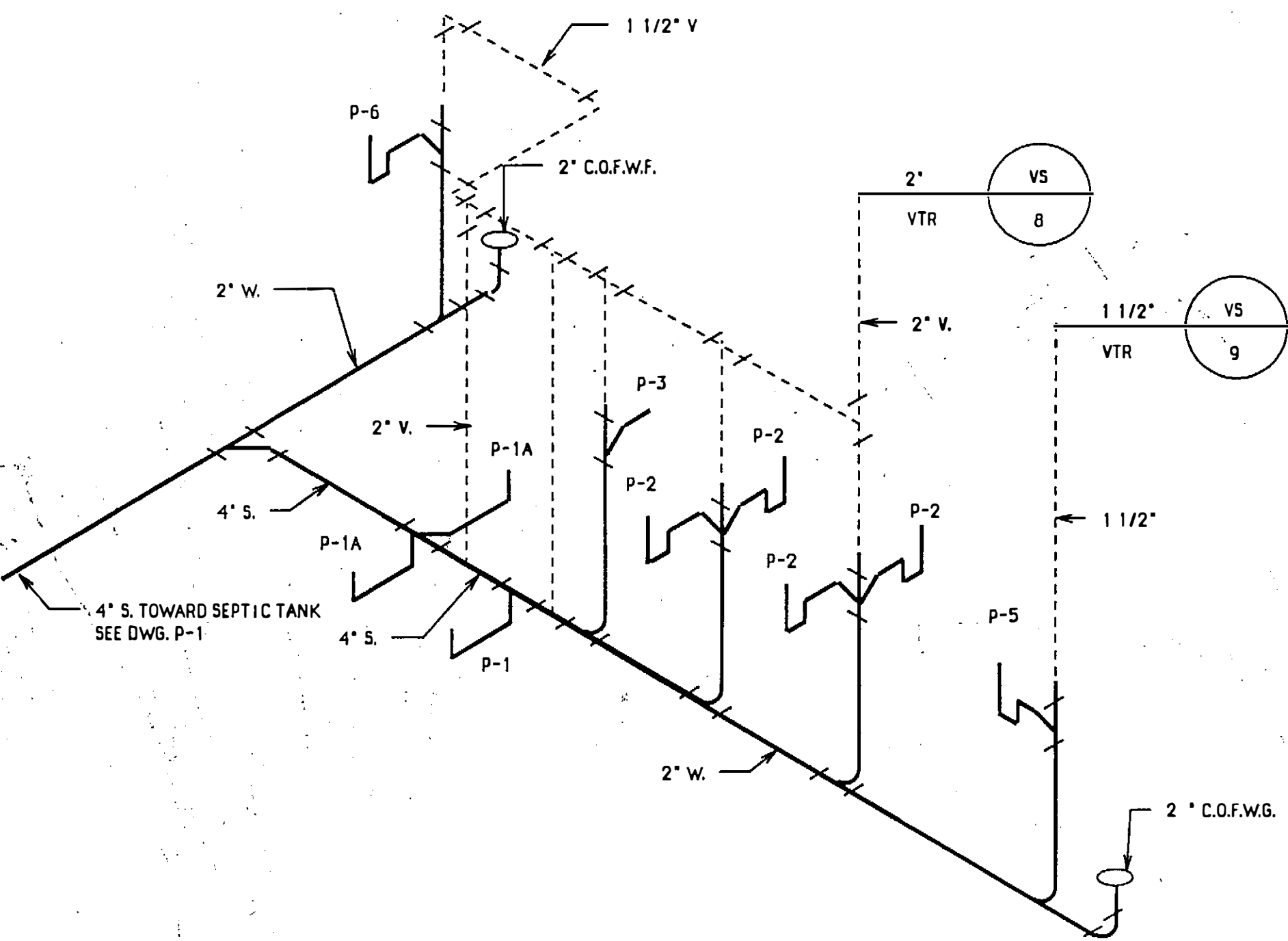
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FED AID H'WAY PROJECT NO.	AC. PROJECT CODE NO.	HIGHWAY P. R.	MUNICIPALITY	ISLAND	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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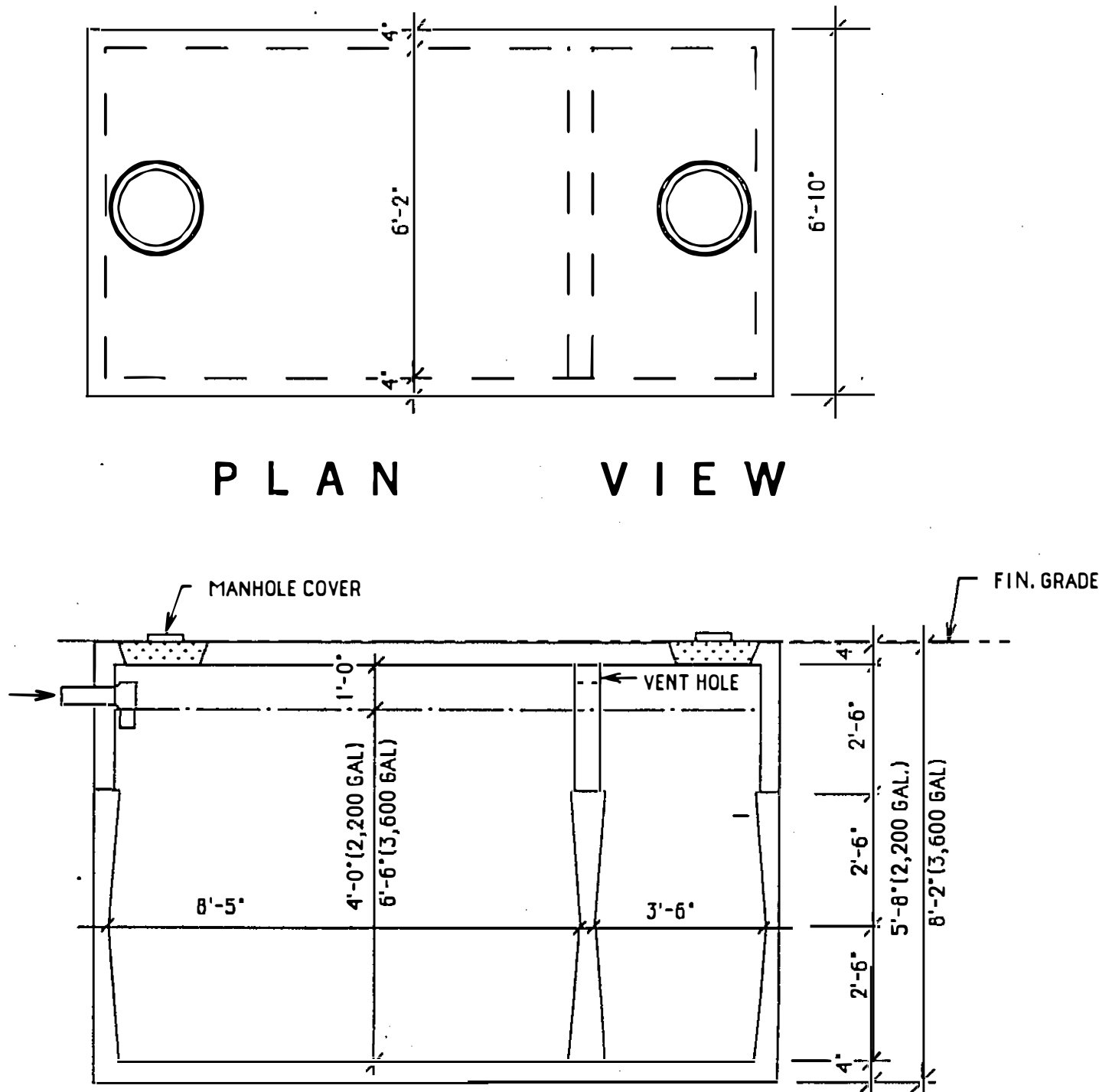
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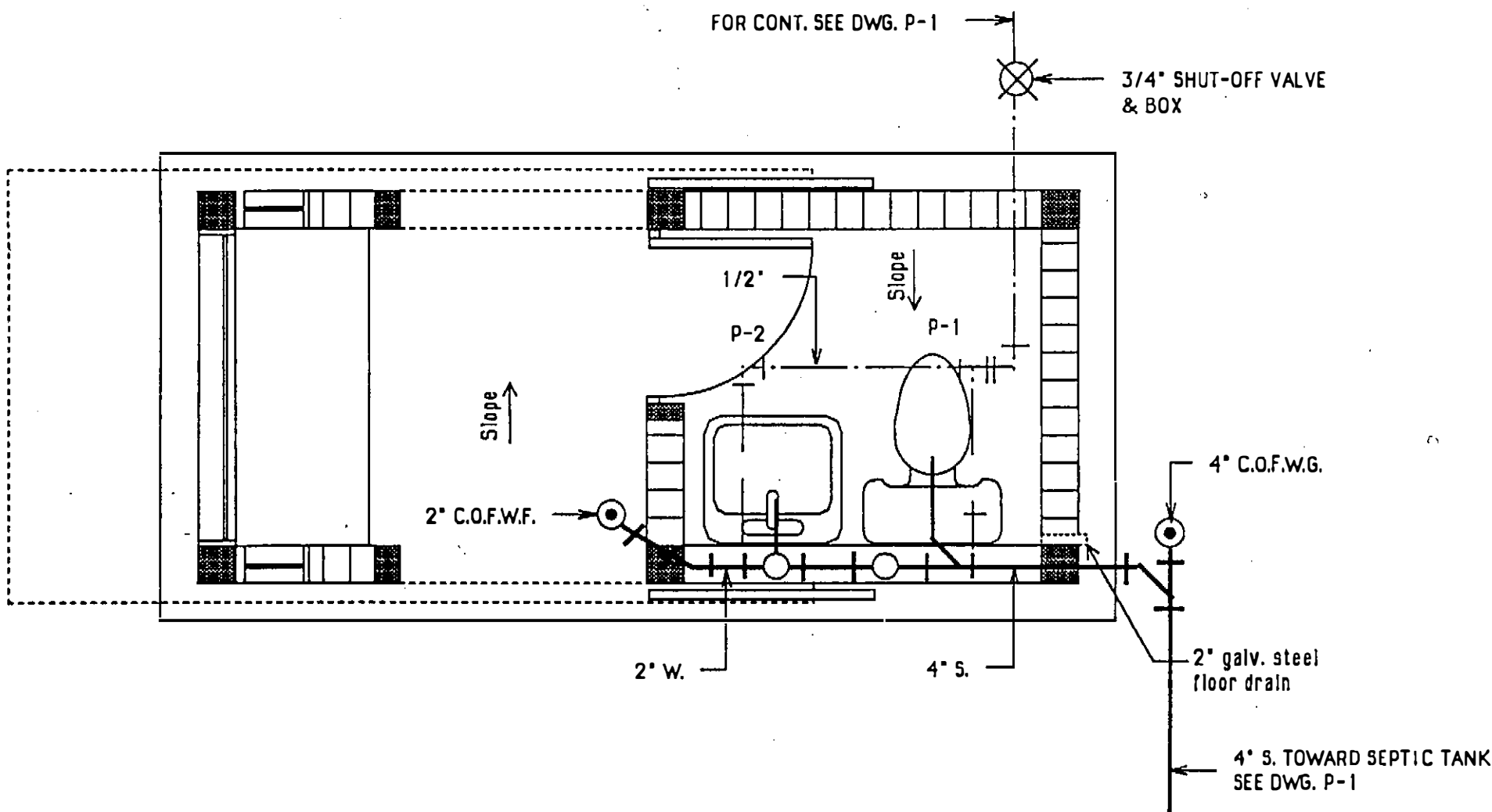
Restrooms #4 & #5 Plumbing Floor Plan
Scale : 1/4" = 1'-0"



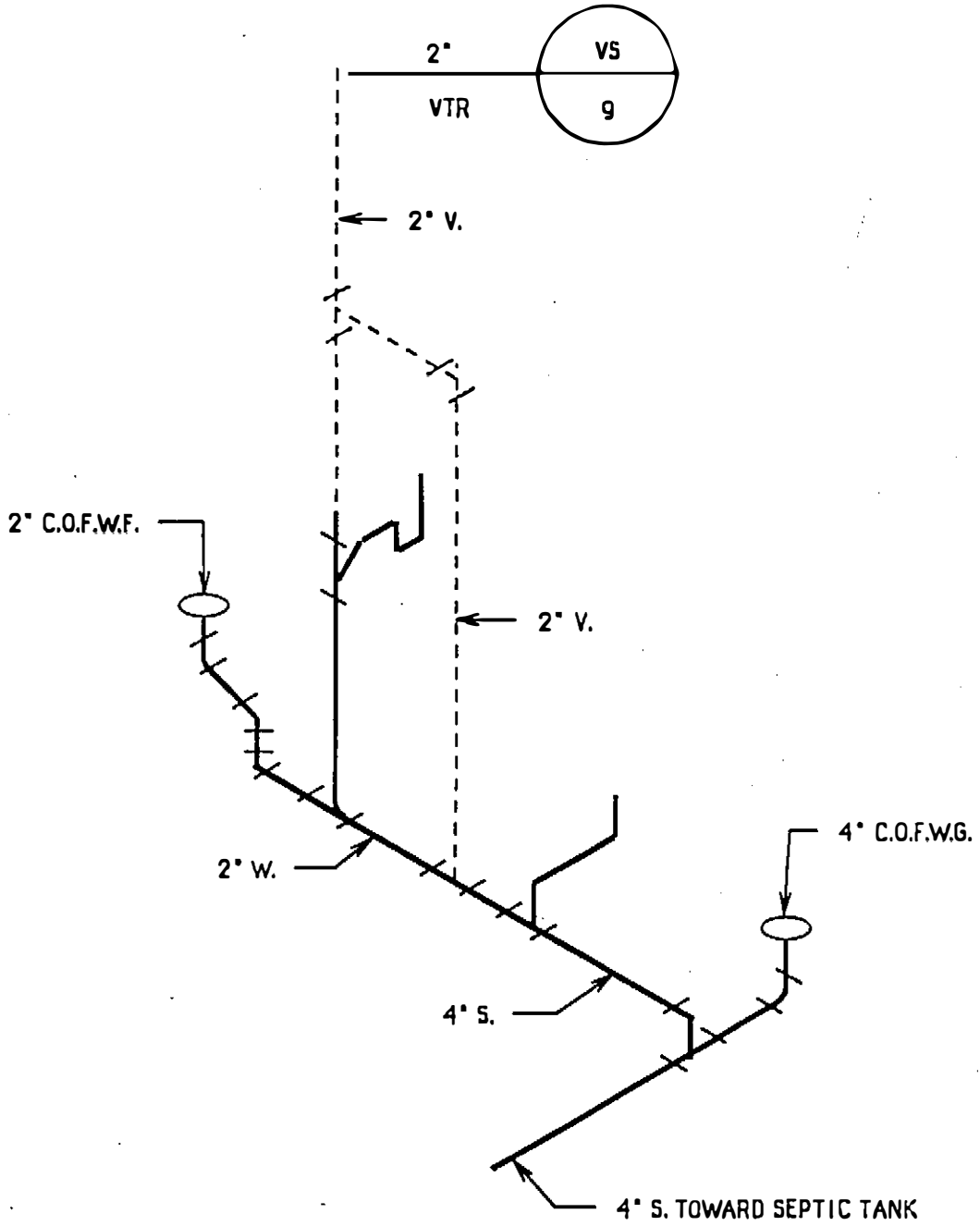
PLUMBING ISOMETRIC



SECTION "A-A"
SEPTIC TANK DETAILS
(NO.1 = 3,600 GALS.; NO.2 = 2,200 GALS.)
(A S MANUFACTURED BY SANI-PLANT)



Guard House Plumbing Floor Plan
Scale 1/2" = 1'-0"



PLUMBING ISOMETRIC

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PUERTO RICO

DATE	REVISIONS

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

Restrooms #4 & 5 & Guard
House Plumbing Floor Plans

B. The four (4) 12" diameter precast concrete piles shall be as specified on Sheet S-4.0. Due to possible (maximum) high water level, the top elevation of the four (4) piles shall be 95.0 .

A. Furnish and install at the Substantially Completed Phase 1 project site and exactly where directed, a walled (with six windows), roofed and adequately ventilated physical facility for the exclusive use of the Embarcadero's Administration which shall have not less than one thousand (1,000) square feet, and shall include the following:

1. One (1) private (100 sqft) private office.
2. Two (2) - new air conditioning units (14,000 BTU each).
3. Provision of Janitorial, electrical (adequate illumination) and toilet facilities.
 - a. Water: Furnish and install all necessary temporary water lines and water supply and, upon completion of the Work, remove all such temporary facilities.
 - b. Electricity: Furnish and install all necessary temporary wiring and, upon completion of the Work, remove all such temporary facility.
 - c. Telephone: Make all necessary arrangements and pay all costs for installation of one telephone service for the Administrator's temporary office.

18. **GAZEBO/REST AREA AT SITE A**
In the Drawings there is a slight difference in the configuration of the pavements in the gazebo/rest area (in Site A), between what is indicated in the Civil Engineering Drawings (Sheets C-2, C-5 & C-15) and what is indicated in the more detailed Architectural Site Drawings (Sheets AS-02, AS-26 & AS-27). Nonetheless, the pavement configuration and finish finishes shall be as indicated in the Architectural Site Drawings (AS); the position of the structures and the proposed elevations is consistent in all the Drawings.

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Dibujo por: EOR Revisado por: JRC

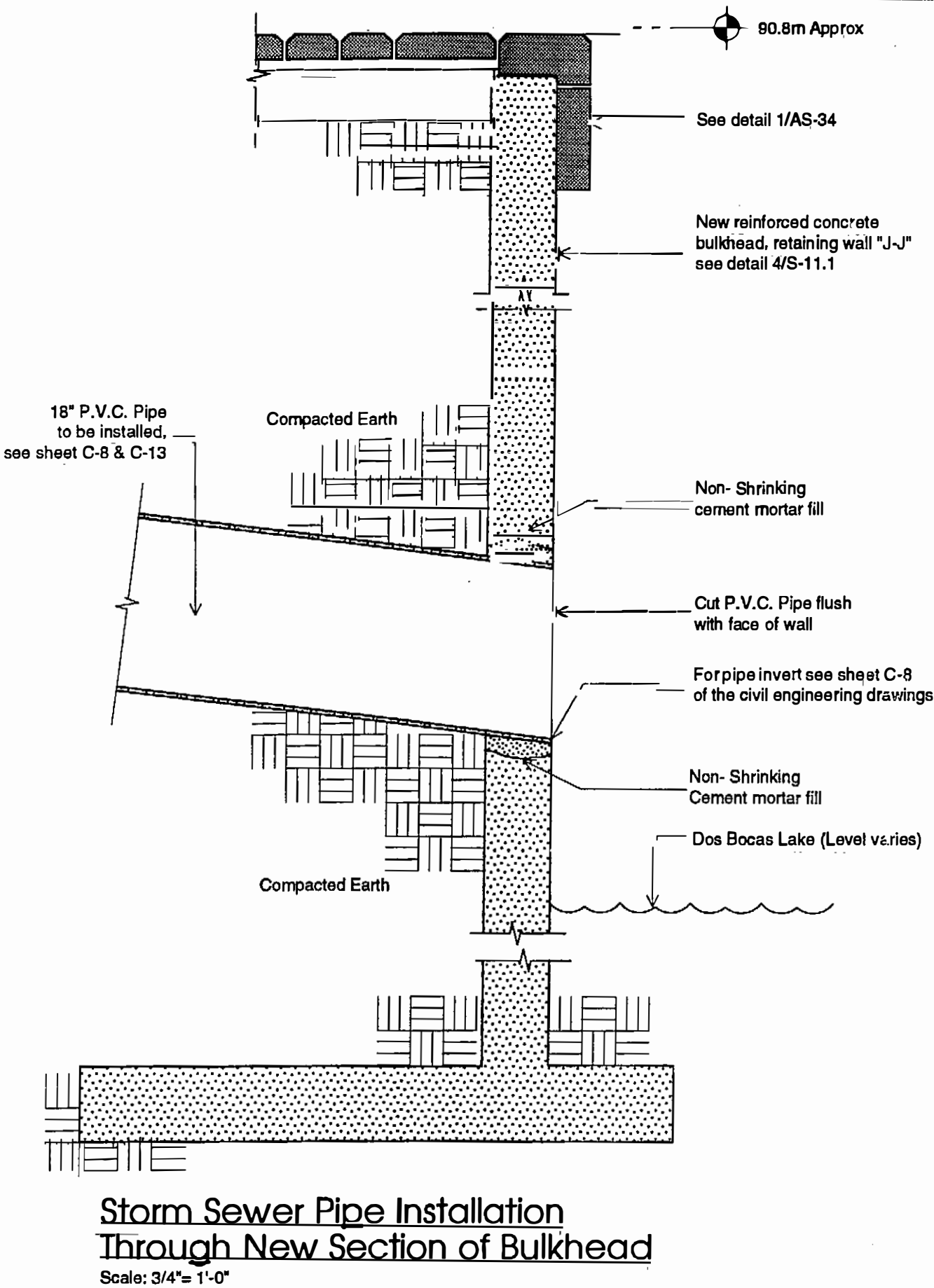
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8. **FENCING (AND GATE) SYSTEM**
The fencing and gate system shall be new, as detailed on Sheet AS-24; none of the existing will be reused. Refer to sheets AS-02, AS-03 AS-04, AS-05, AS-25, AS-28 and AS-31 for the location of the gates and the extent of the (OMEGA) fencing system. The fencing system borders the entire site along State Road 123 and on both sides of the two (2) parking site vehicular entrances. The Southern limit (at Site A) of the fencing system bordering State Road 123 is the South property line, indicated as a dotted line; the fencing system is the Southern property line (from the Road 123 to the Lake's edge) shall be determined at a later date by the Owner. The Northern limit (at Site D) is the Service Entrance gate; the fencing system along the Northern property line (from the service entrance gate to the Lake's edge) shall also be determined at a later date by the Owner.

15. CROSS GUTTER
The only cross gutter to be constructed in the project is indicated on Sheet C-2, dividing the lower parking level from the North/South access road. The length of this gutter is from elevation 98.5 (approx.) at the South and elevation 95 (approx.) at the North end. The Cross Gutter Detail on Sheet C-11 is the basic manifestation of this drain and is not intended as the exact guide for construction. Nevertheless, the reinforcing for the concrete shall be as indicated.

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21. ASPHALT PAVEMENT SUBBASE
The subbase for the asphalt paving is indicated in detail marked Typical Asphalt Paving Section, on Sheet C-11. Also, refer to Specifications in the Standard Specifications for Road and Bridge Construction (1989 Edition) volume.



SECTION 02525

OPEN CELL MAT (ARMORFLEX) PAVEMENT

FOR REFERENCE ONLY

PW-8361-DI-220569

Event: 4339DR-PR

1.01 DESCRIPTION:

A. Work included: Provide open cell mat pavement where shown on the Drawings, as specified herein, and as needed for a complete and proper installation.

B. Related Work: Documents affecting work of this Section include, but not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 1 of these Specifications.

1.02 QUALITY ASSURANCE:

Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.

1.03 SUBMITTALS:

A. Comply with pertinent provisions of Section 01340.

B. Product Data: Within 60 calendar days after the Contractor has received the Owner's Notice to Proceed, submit:

1. Materials list of items proposed to be provided under this Section.

2. Manufacturer's specifications and other data needed to prove compliance with the specified requirements.

C. Mockup: Prior to installation, prepare a sample panel of the work of this Section at a location on the job site where approved by the Owner.

1. Make a sample panel of a section as per general drawing.

2. Show bedding, sand joints, and setting pattern, cleaning, and other aspects of the work of this Section to the quality specified.

3. Make necessary adjustments in the sample panel and secure Architect's approval.

4. The sample panel, when approved by the Architect, will be used as a datum point for comparison with the remainder of the open cell mat pavement for the purpose of acceptance or rejection.

5. Upon approval of the Architect, the sample panel may be an actual portion of the paving required for this work.

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2. a. sieve size 3/8" no. 4 no. 8 no. 16 no. 50 no. 100 no. 200

b. % passing 100 95-100 80-100 50-85 10-30 5-15 0-10

2. Sand material for joint spacing will have a gradation of 100% passing the no.16 sieve and 10% passing the no. 200 sieve.

PART 3 - EXECUTION

3.01 GENERAL SPECIFICATIONS:

A. The open cell blocks are machine compressed (4,000 psi) cellular concrete which when cabled horizontally by means of polyester cables, form an interlocking mat for easy handling on-site.

B. The open cells shall be filled with 1/8" to 1/2" round river gravel (<chinos de rio>). Nevertheless, this porousness provides an environment so that vegetation, grass and small shrubs can penetrate the filter, providing an additional, permanent anchor for the system.

C. The Armorflex pavement system is free of dangerous projections, so pedestrians, vehicles and boats all have a convenient, safe access to the lake.

D. Serving as an articulated mattress, Armorflex provides a continuous erosion protection against the destructive forces of the water.

E. The individual block units are interconnected by flexible cables (as recommended by the manufacturer), providing articulation between adjacent blocks. The block walls have beveled relief to allow for flexibility in all directions.

3.02 SURFACE CONDITIONS

Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions are correct.

3.03 INSTALLATION METHOD (or as recommended by an Armorflex Certified Installer):

A. The Amorflex mat arrives on-site as a system of factory or off-site assembled pads or "mattresses". These articulating mats consist of interlocking blocks held together by polyester cables. The Armorflex mats are placed on a GEOTEXTILE fabric filter which has been laid on a prepared subgrade using conventional construction equipment.

B. DELIVERY & UNLOADING: Mats can be supplied on up to 40-foot flat bed trailers, up to 1,600 square feet per truck. The geotextile fabric and spreader bar shall be delivered first and off-loaded directly from the road vehicles onto the prepared subgrade.

C. SUB-BASE: Sub-base will be placed, over compacted earth, in layers of about 6" thick, compact well or vibrate each layer (where more than one) before placing the next layer. Then the Armorflex mat shall be placed on the GEOTEXTILE fabric filter.

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1.04 PRODUCT HANDLING:

A. Comply with pertinent provisions of Section 01640.

B. Store concrete pavers off ground, and cover to protect from elements and adulterants.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Concrete Block Unit Paver:

1. Provide units of the dimensions shown on the general drawings in natural (gray) cement color. Equal to ARMORFLEX concrete block mat system as manufactured NICOLON Corporation / Erosion Control Products, 3500 Parkway Lane, Suite 500, Norcross, Georgia 30092; telephone (404) 447-6272, fax (404) 662-5819 and as represented in Puerto Rico by ESAN Precast, Calle Gardenia A-2, Enramada Bayamón, Bayamón, Puerto Rico 00961; telephone 798-6280, fax 798-6204.

2. Other Specifications (Typical Values):

a. Concrete Block Type: Open Cell, Class 70

b. Specific Weight: 130-150 lbs./cu. ft.

c. Compressive Strength: 4,000 lbs./sq. in.

d. Maximum Absorption: 12 lbs./cu. ft.

e. Nominal Dimensions: 17.4"long x 15.5"wide x 9.0"deep

f. Gross Area / Block Sq. Ft.: 1.77 sq. ft.

g. Block Weight: 120-138 lbs. / 68-78 lbs./sq. ft.

h. Open Area: 20%; permitting free drainage of groundwater thus preventing a destabilizing build up of back-pressure behind the pavement.

B. Subbase/Base Material: Unbound granular subbase of well graded gravel or limestone having a maximum topsize of about 1-1/2" and containing about 10% sand sizes.

C. Fabric Filter Material: The Armorflex mat shall be placed on GEOTEXTILE fabric filter, the permeability gained by this filter will relieve any hydrostatic pressure in the subgrade and at the same time the soil retention capabilities of the system shall prevent leaching of subbase/base material and subsoils through the installation.

D. Bedding/Joint Sand:

1. Provide clean, well graded non-plastic sand. Bedding layer will be at least 2" thick before final surface block vibration and have a gradation as shown:

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D. LAYING MATS: Mats can be handled with a lifting beam, which picks up mats from both ends.

E. ANCHORAGE: Temporary anchorage can be achieved by driving wood stakes on two inch (2") centers along the top of the mat. Permanent anchorage shall be by connecting the mat cables to appropriate (patented) anchors such as HELIX or DUCKBILL.

F. FINISHING: Voids in the mats shall be filled (or "blinded") with an approved sand/gravel mixture.

END OF SECTION

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PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY

JRC DAVIS PAGAN

CONSULTING ARCHITECT / SAN JUAN PUERTO RICO

EMBARCADERO LAGO DOS BOCAS

UTUADO / ARECIBO

PUERTO RICO

DATE

REVISIONS

ADDENDUM NO.1

AD
02

FED AID H'WAY PROJECT NO.

AC. PROJECT CODE NO.

HIGHWAY P. R.

MUNICIPALITY

ISLAND

FISCAL YEAR

SHEET NO.

TOTAL SHEETS

AC 100030

P.R. 123

UTUADO ARECIBO

P.R.

1996

2

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8/9/96

<div>SECTION 02276</div> <div>MECHANICALLY STABILIZED (KEYSTONE) EARTH STRUCTURES</div> <div>PART 1- GENERAL</div> <div>1.01 DESCRIPTION</div> <div><div>A. This work shall consist of designing, furnishing materials and construction of mechanically stabilized earth structures (slopes and walls) in accordance with these specifications and in conformity with the lines, dimensions, typical sections and other details shown on the plans, standard plans, or established by the Architect and/or his Consulting Engineers.</div><div>B. This item also includes any materials or systems and all incidentals necessary to complete the item.</div><div>C. The Contractor shall submit for approval the MSE-Structures system he proposes to use, duly signed and sealed by the Vendors Licensed Engineer in the Commonwealth of Puerto Rico. The Contractor will provide during the construction of this item an engineer specialized in this type of work to direct the construction. He will also consider the recommendations of the Geotechnical Engineer indicated in item "E" of this section prior to proceed with backfilling. An Engineer from the selected MSE-Structures system will be present at time of installation of the reinforcing stripe as to guarantee proper placing of strips, overlapping and drainage installation. The MSE-Structures representative from main office will show the Authority assigned personnel, the complete process of installation. This demonstration is included in the Lump Sum bid price.</div><div>D. A detailed installation and construction procedure shall be submitted for approval by the Architect and/or his Consulting Engineers. Once approved this procedure shall be strictly followed during the embankment construction.</div><div>E. A Geotechnical Engineer shall be designated by the Authority Resident Engineer to observe the excavations for the MSE Structures and verify the design parameters adopted in the approved design. During inspections, the Geotechnical Engineer shall be present to check if any deviation is encountered, and shall make recommendations to the installing Contractor and participating vendor for design adjustments of the MSE-Structures design. Underdrain details shall be carefully installed, inspected and approved prior to back filling. If any aquifers or if a suspicious horizontal drain is encountered, the Geotechnical Engineer shall make his recommendations.</div><div>F. Reference Documents to be Used for the Design and Testing of this item.</div></div>		<div>4. Units shall be interlocked with non-corrosive fiberglass pins.</div> <div>5. Units shall be interlocked and provide either a rear vertical setback or a built-in setback of 1:8. A setback of 1:16 can be achieved by integrating rear vertical and 1" setback units.</div> <div>6. Acceptable products are Keystone Retaining Wall Units (Compact and/or Standard units) as manufactured by Carmelo Group/Bloques Carmelo; Sabana Seca, Puerto Rico, telephone (787) 251-9474 (contact - Ing. Jorge Luis Morales).</div> <div>C. Fiberglass Connecting Pins</div> <div>1. Connecting pins shall be 1/2" diameter thermoset isophthalic polyester resin-pultruded fiberglass reinforcement rods.</div> <div>2. Pins shall have a minimum flexural strength of 128,000 psi and short beam shear of 6,400 lbs.</div> <div>D. Reinforced Special Borrow Embankment</div> <div>The soil comprising the reinforced soil volume in the MSE-Structures shall meet the requirements of A-2-4. The reinforced soil volume will be outlined in the shop drawings prepared by the Contractor.</div> <div>E. Erosion Control System</div> <div>Erosion control system shall be as specified in Specification 627 - Turf Establishment [Standard Specifications for Road and Bridge Construction (1989 Edition)], except without mulch.</div> <div>F. Topsoil</div> <div>Topsoil shall meet requirements of Specification 625 - Topsoil [Standard Specifications for Road and Bridge Construction (1989 Edition)].</div> <div>G. Certification of Compliance</div> <div>1. The Contractor shall submit six (6) sets of detailed design calculations and shop drawings, sealed and signed by a Licensed Engineer in the Commonwealth of Puerto Rico.</div> <div>2. The Contractor shall submit six (6) sets of certifications of the test data to cover each shipment of material he brings to the site. No material may be used until the Resident Engineer approves the material.</div> <div>3. Visibly label all shipments on the material or its container with the manufacturer's name, material type or trade name, lot number and material quantity.</div>		<div>4. The foundation soil shall be excavated as required for leveling pad dimensions shown on the Construction Drawings, or as directed by the Resident Engineer.</div> <div>5. The foundation soil shall be approved by the Resident Engineer to confirm that the actual foundation soil conditions meet or exceed the assumed design strength. Soils not meeting required strength shall be removed and replaced with acceptable material.</div> <div>6. Over excavated areas shall be filled with approved compacted backfill material.</div> <div>E. Base Leveling Pad</div> <div>1. The leveling pad materials shall be placed as shown on the Construction Drawings, upon approved foundation, to a minimum thickness of 12".</div> <div>2. The material shall be compacted as to provide a level surface on which to place the first course of concrete modular block retaining wall units. Compaction shall be to 95% of Standard Proctor for sand or gravel type materials. For crushed rock, material shall be densely compacted, as approved by the Resident Engineer.</div> <div>3. The leveling pad shall be prepared to ensure complete contact of concrete modular block retaining wall units with base. Leveling pad materials shall be to the depths and widths shown on the Drawings.</div> <div>4. Contractor may opt for using reduced depth of sands, gravel or crushed rock using a concrete topping. Concrete topping shall be 6" thick x dimension shown on the Drawings and unreinforced.</div> <div>F. Geogrid Placement</div> <div>1. The geogrid shall be installed in accordance with the manufacturer's recommendations. The geogrid shall be placed within the layers of the embankment as shown on the Drawings or as directed by the Resident Engineer.</div> <div>2. The geogrid shall be placed with the long axis of the aperture perpendicular to the slope face, in continuous strips (no overlaps will be allowed), and will provide 100% coverage in a plan view at each elevation where primary reinforcement is required. Adjacent strips need no be overlapped.</div> <div>3. Place only that amount of geogrid required for immediately pending work to prevent undue damage. Suitable means, such as pins or small piles of soil, shall be used to hold the geogrid in position until subsequent soil layer can be placed. Under no circumstances shall a tract-type vehicle be allowed on the geogrid before at least 0.15m of soil has been placed. All geogrid shall be placed to lay flat and pulled taut prior to backfilling.</div>		<div>FED AID H'WAY PROJECT NO.</div> <div>AC. PROJECT CODE NO.</div> <div>HIGHWAY P. R.</div> <div>MUNICIPALITY</div> <div>ISLAND</div> <div>FISCAL YEAR</div> <div>SHEET NO.</div> <div>TOTAL SHEETS</div> <div>AC 100030</div> <div>P.R. 123</div> <div>UTUADO ARECIBO</div> <div>P.R.</div> <div>1996</div> <div>3</div> <div>3</div> <div>H. Borrow Embankment Construction</div> <div>1. Borrow embankment shall be as Borrow Class B (A-2-4) with Special Provision 203 [Standard Specifications for Road & Bridge Construction (1989 Edition)]. Special borrow embankment material shall be placed, spread and compacted in such a manner as to minimize the development of wrinkles and/or displacement of the geogrid.</div> <div>2. Special borrow embankment shall be graded away from the structure crest and rolled at the end of each work day to prevent ponding of water on the surface of the mechanically stabilized soil mass. Site shall be maintained to prevent the flow of water from overtopping slope crest during construction and after completion of embankment.</div> <div>3. Turning of tracked vehicles should be kept to a minimum to prevent tracks from displacing the special borrow embankment and the geogrid. Rubber tired equipment may pass over the geogrid reinforcement at low speeds, less than 15 km/hr. Sudden braking and sharp turning shall be avoided.</div> <div>I. Erosion Control, Placement of Topsoil and Turf Establishment</div> <div>As soon as it is predictable, placement of topsoil shall start in accordance with Specification 625 - Topsoil [Standard Specifications for Road & Bridge Construction (1989 Edition)], applying proper erosion control and turf establishment in accordance with Specification 627 - Turf Establishment [also from Standard Specifications for Road & Bridge Construction (1989 Edition)].</div> <div>END OF SECTION</div>	
<div>a. Geosynthetic Research Institute</div> <div>1). Standard Test Method for Geogrid Rib Tensile Strength</div> <div>2). Standard Test Method for Geogrip Junction Strength</div> <div>3). Standard Practice for "Determination of the Long Term Design Strength of Geogrids"</div> <div>4). Standard Test Method ofr "Geogrip Pullout"</div> <div>b. American Association of State Highway & Transportation Officials</div> <div>1). AASHTO Classification of Soils and Soil- Aggregate mixtures for AASHTO System.</div> <div>c. American Society for Testing & Materials Standards</div> <div>1). ASTM 4716 Constant Head Hydraulic Transmissivity of Geotextiles and Geotextile Related Products.</div> <div>2). ASTM F 904 -84 Comparison of Bond Strength or Ply Adhesion of Similar Laminates Made From Flexible Materials.</div> <div>3). ASTM D5262 Standard Test Method for Evaluation of unconfined Tensile Creep Behavior of Geosynthetics.</div> <div>4). ASTM C90 Hollow Load Bearing Masonry Units.</div> <div>5). ASTM C 140 Sampling and Testing Concrete Masonry Units.</div> <div>6). ASTM C 145 Solid Load Bearing Concrete Masonry Units.</div> <div>PART 2- PRODUCTS</div> <div>2.01 MATERIALS</div> <div>A. Structural Geogrid for Stabilization Material</div> <div>Structural geogrid elements shall consist of a regular network of integrally connected or woven longitudinal and transverse polymer (polyethylene, polypropylene of polyester resin) tensile elements with aperture geometry sufficient to permit significant mechanical interlock with the surrounding soil, aggregate or other special borrow embankment material. The geogrid shall meet the requirements established in the design submitted by the Contractor and approved by the Architect and/or his Consulting Engineers. Acceptable products are Miragrid or Tensar.</div> <div>B. Concrete Modular Block Retaining Wall Units.</div> <div>1. Concrete wall unit shall have a minimum 28-day compressive strength of 3,000 psi. The concrete shall have a maximum moisture absorption of 8%.</div> <div>2. Exterior dimensions may vary in accordance with ASTM C90. Compac units shall have a minimum of 1 sq. ft. face area each. Mini units shall have a minimum 1/2 sq. ft. face area each.</div> <div>3. Units shall have angled sides capable of concave and convex alignment curves with a minimum radius of 3.5 feet.</div>		<div>PART 3- CONSTRUCTION</div> <div>3.01 DELIVERY, STORAGE AND HANDLING</div> <div>A. Structural Geogrid</div> <div>The Contractor shall check the materials upon delivery to ensure that the proper material has been received. The Contractor shall prevent contamination of the materials with extraneous matters. Rolled geogrid and erosion mat may be laid flat or stood on end for storage. All plastic materials shall be protected from ultraviolet radiation by covering them with appropriate means such as tarpaulin, heavy paper, opaque plastic, etc. at all periods of shipment and storage.</div> <div>B. Concrete Modular Block Retaining Wall Units</div> <div>1. The Contractor shall check the materials upon delivery to assure that proper materials have been received.</div> <div>2. The Contractor shall prevent excessive mud, any wet cement, epoxy and/or similar materials (which may affix themselves) from coming in contact with the materials.</div> <div>3. The Contractor shall protect the materials from damage. Damaged material shall not be incorporated into retaining wall structure.</div> <div>C. On Site Representative</div> <div>Geogrid material supplier shall provide a qualified and experienced representative on-site to assist the Contractor and Resident Engineer at the start of construction and as long as it may be required. The representative shall be available on an as-needed basis, as requested by the Resident Engineer during construction of the MSE-Structures.</div> <div>D. Site Excavation</div> <div>1. All areas immediately beneath the installation area of the geogrid shall be properly prepared as detailed on the Drawings, as indicated in the Technical Specifications or as directed by the Architect and/or his Consulting Engineers.</div> <div>2. The foundation surface shall be level, free from deteriorous materials, loose or otherwise unsuitable soils. Prior to placement of geogrids, foundation surfaces shall be leveled and compacted to provide a uniform and firm surface. Any soft areas, as determined by the Resident Engineer, shall be excavated and replaced by the Contractor prior to special borrow embankment placement.</div> <div>3. Benching the backcut into competent soil is required to improve stability. Benching is a subsidiary obligation as per Specification 203 - Excavation & Embankment [Standard Specifications for Road & Bridge Construction (1989 Edition)].</div>		<div>4. After a layer of geogrid has been placed, the next succeeding layer of soil shall be placed and compacted as appropriate. After the specified soil layer has been placed, the next geogrid layer shall be installed. The process shall be repeated for each subsequent layer of geogrid and soil.</div> <div>5. During construction, the surface of the special borrow embankment should be kept approximately horizontal. Geogrids shall be placed directly on the horizontal compacted embankment surface. Geogrids are to extend the length as shown on the elevation view unless otherwise directed by the Resident Engineer. Correct orientation of the geogrid shall be verified by the Contractor.</div> <div>6. The geogrids shall be protected from ultraviolet radiations. They shall not be exposed for more than seven (7) days.</div> <div>G. Concrete Modular Block Retaining Wall Unit Installation</div> <div>1. Place first course of concrete wall units on the base leveling pad. The units shall be checked for level and alignment.</div> <div>2. Ensure that the units are in full contact with the base.</div> <div>3. Units are placed side-by-side for full length of wall alignment. Alignment may be done by means of a string line or offset from base line.</div> <div>4. Install fiberglass connecting pins and fill voids at units with unit fill material (A-2-4); tamp fill.</div> <div>5. Sweep all excess material from top of units and install next course.</div> <div>6. Ensure each course is completely unit fill, backfilled and cothpacted prior to proceeding to next course.</div> <div>7. Lay up each course ensuring that pins protrude into adjoining courses above a minimum of 1". Two (2) pins required per unit. Pull each unit forward, away from the embankment, against pins in the previous course, and backfill as the course is completed. Repeat procedure to the extent of the wall height.</div> <div>8. As appropriate where the wall changes elevation, units can be stepped with grade or turned into the embankment with a convex return end.</div> <div>9. Provide appropriate buried units on compacted leveling pad in area of convex return end.</div> <div>10. Place cap units over projecting pins from units below. Pull forward to setback position. Backfill and compact to finish grade.</div>		<div>02276-7</div> <div>8/9/96</div>	
<div>PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY</div> <div>JRC DAVIS PAGAN</div> <div>CONSULTING ARCHITECT / SAN JUAN PUERTO RICO</div>		<div>EMBARCADERO LAGO DOS Bocas</div> <div>UTUADO / ARECIBO</div> <div>PUERTO RICO</div>		<div>DATE</div> <div>REVISIONS</div>		<div>ADDENDUM NO.1</div> <div>AD 03</div>	